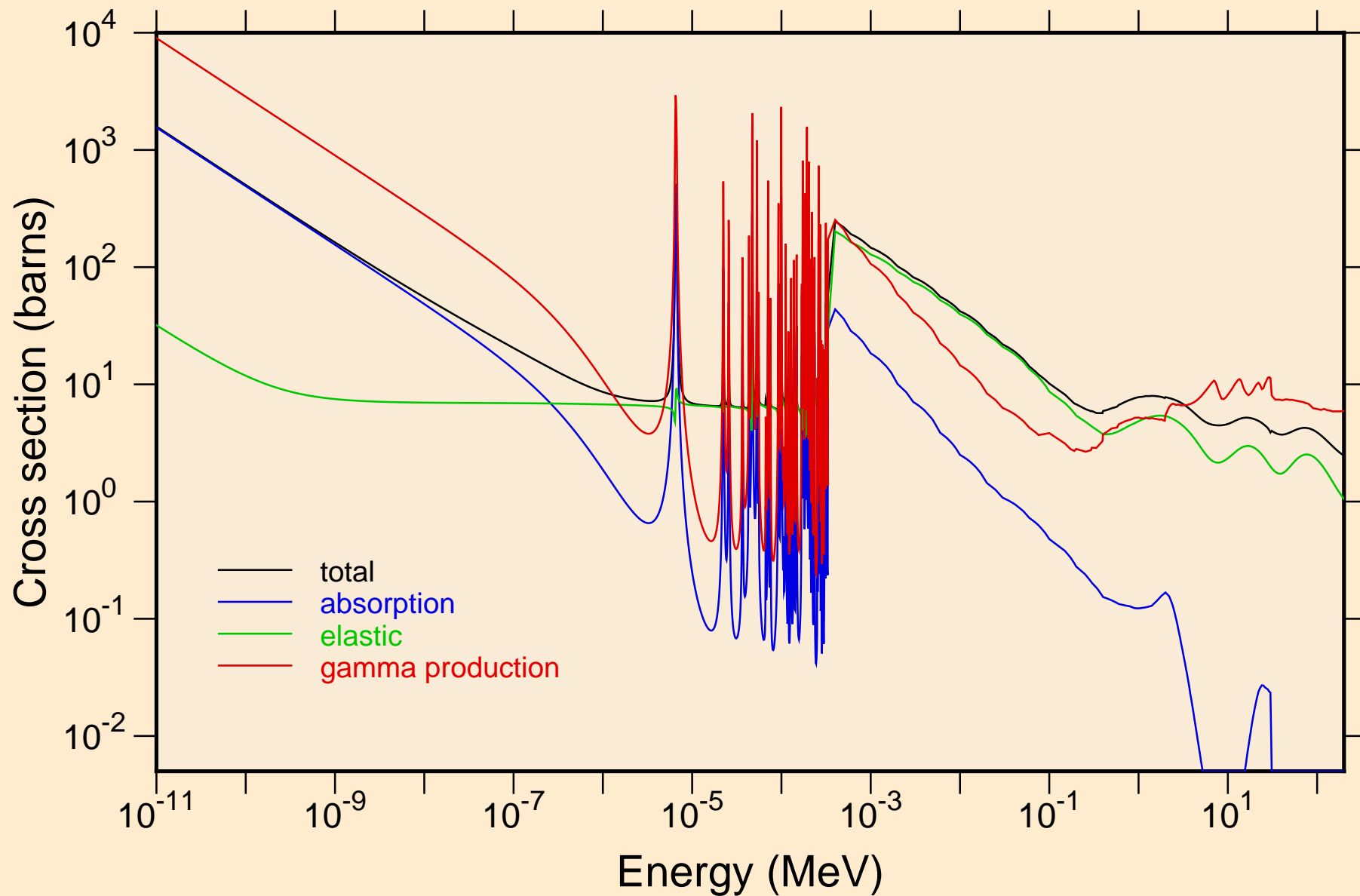
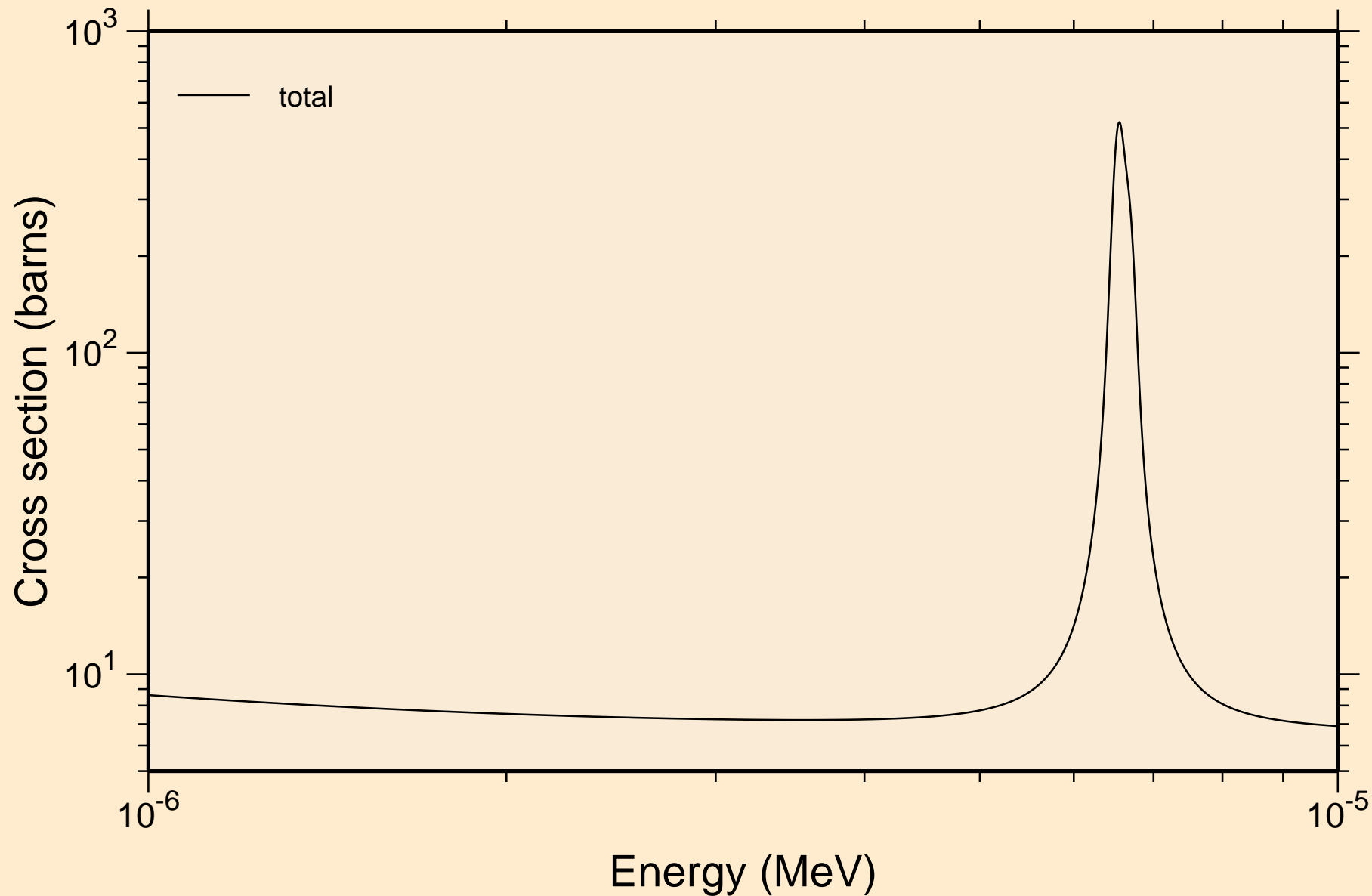


# EU159 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K

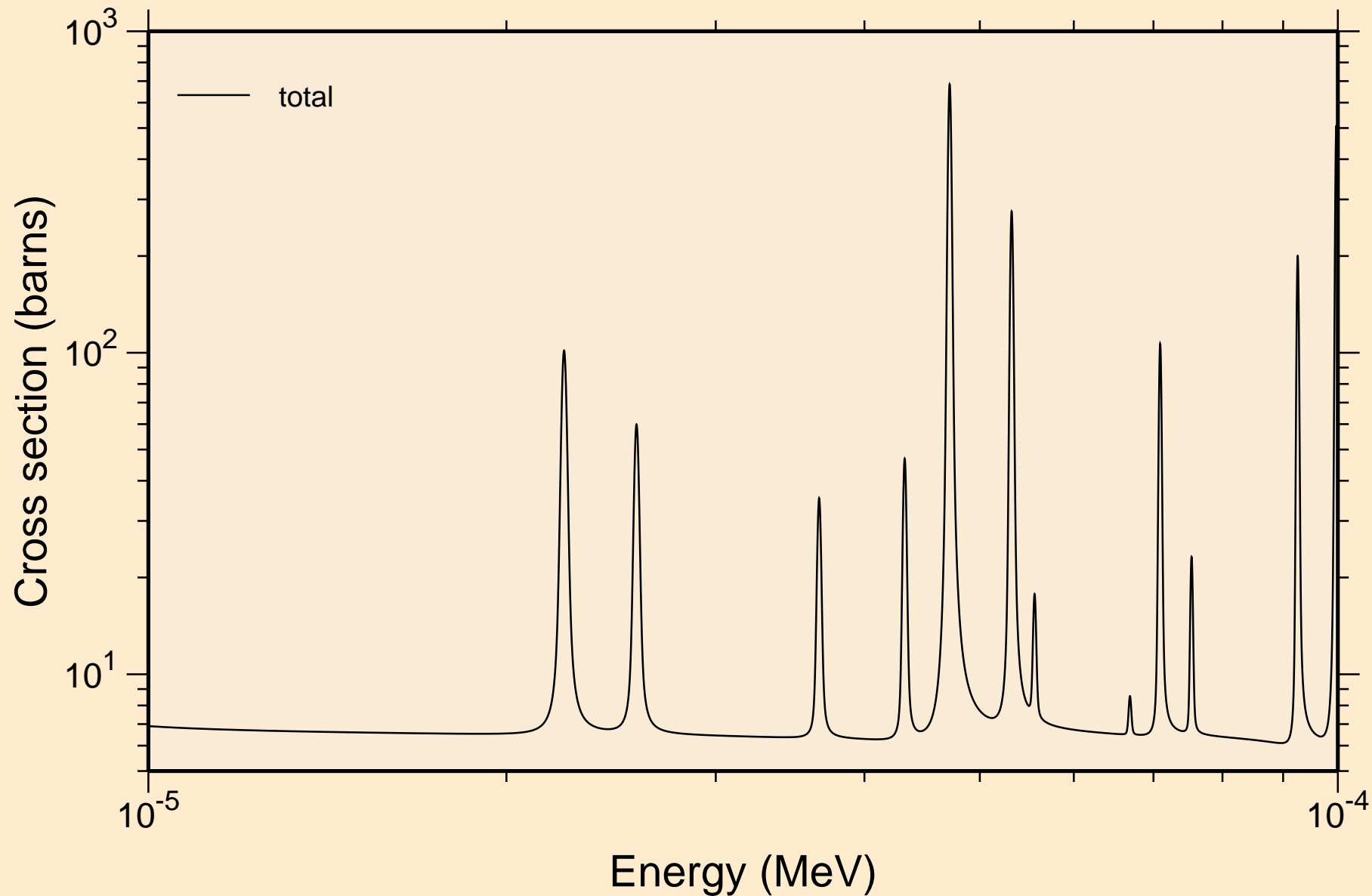
## Principal cross sections



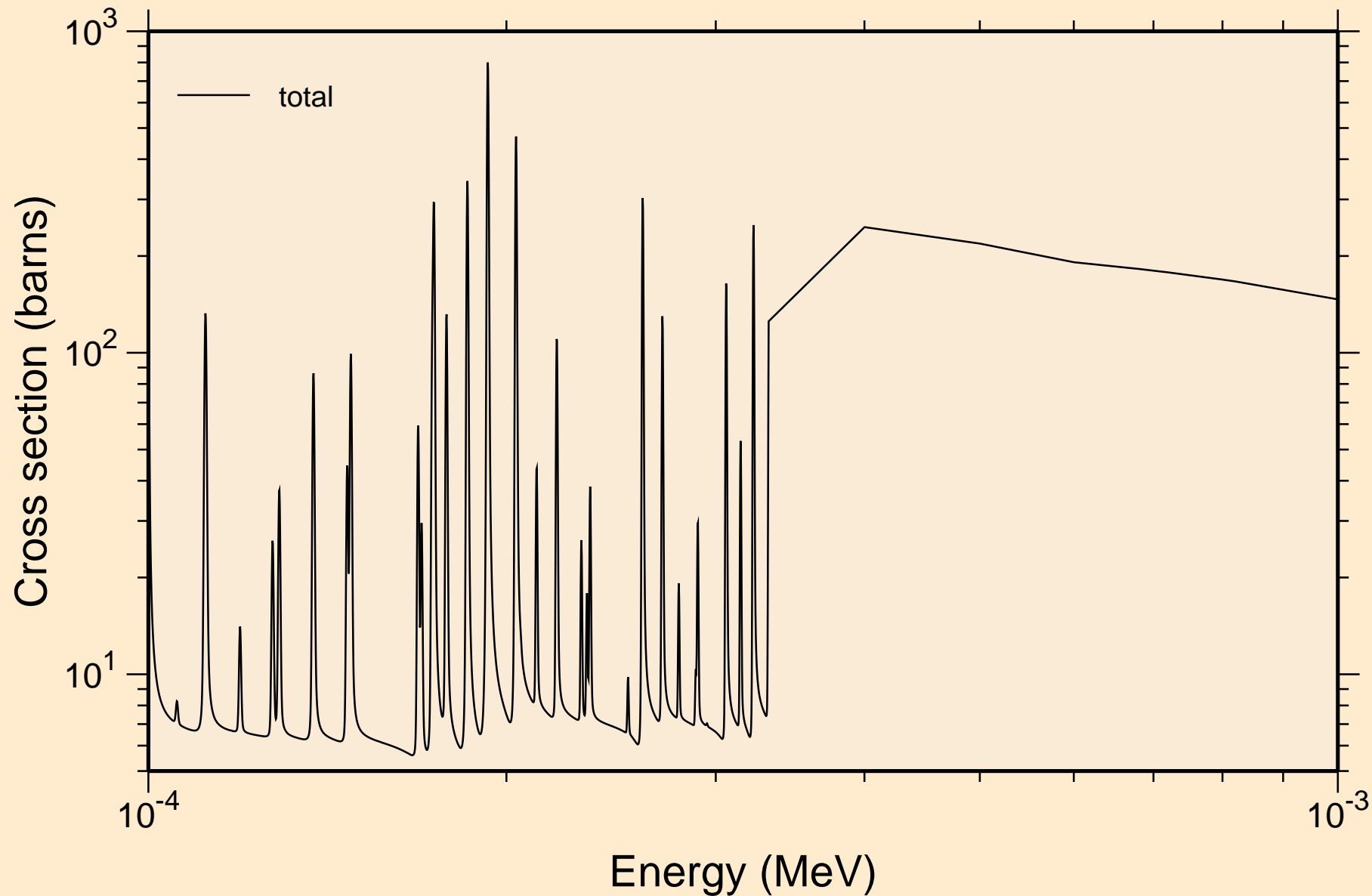
EU159 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
resonance total cross section



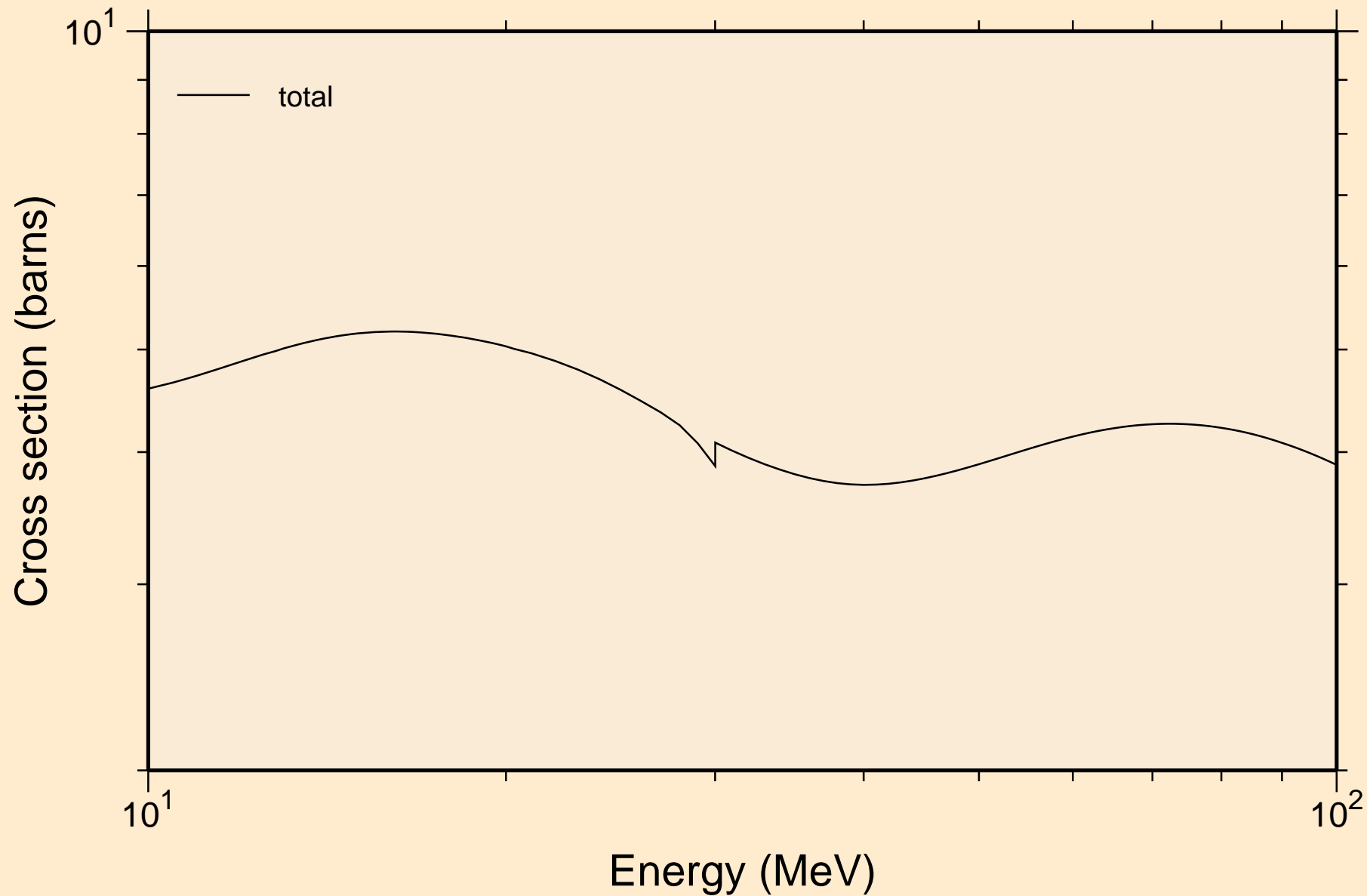
EU159 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
resonance total cross section



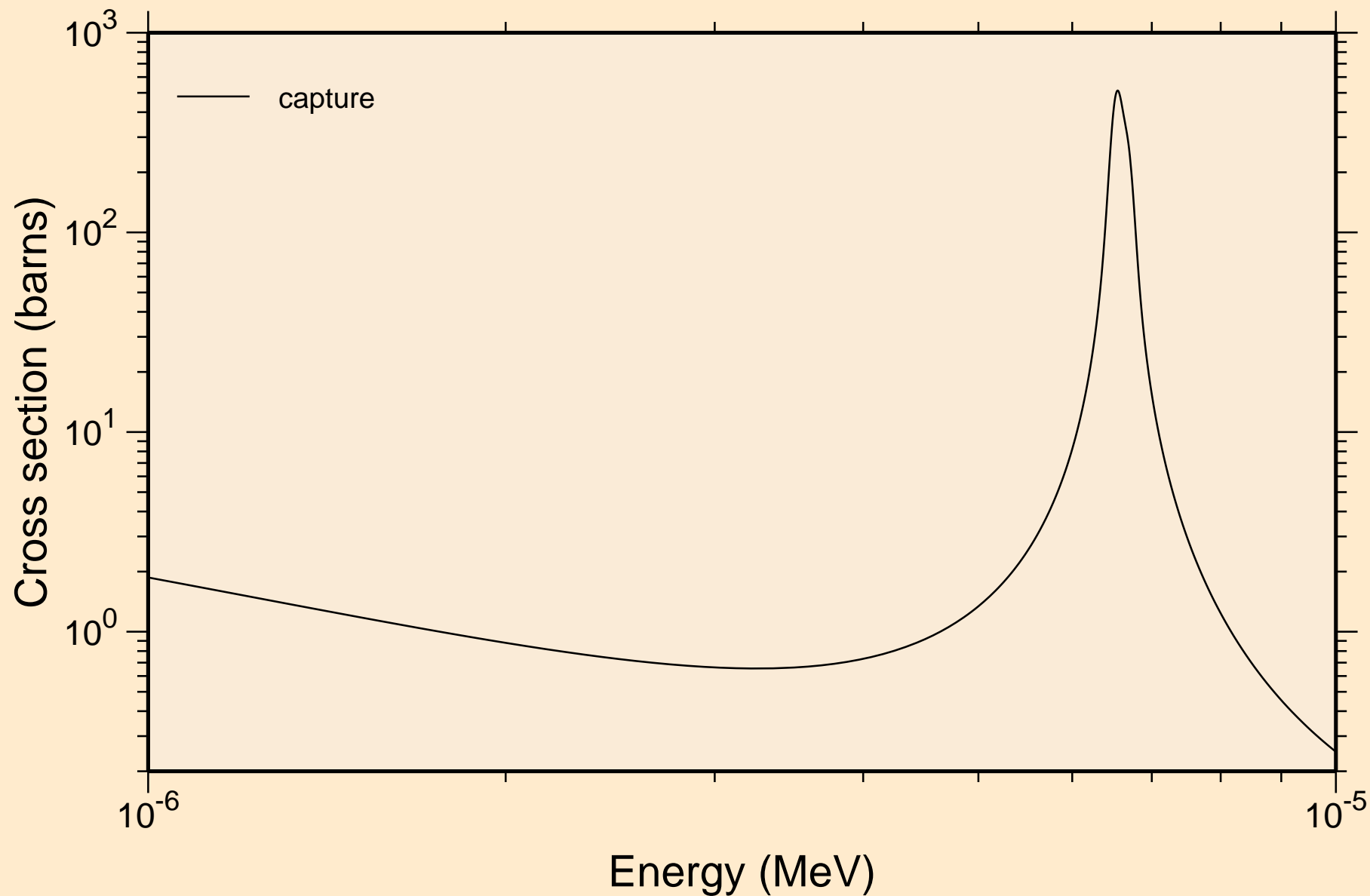
EU159 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
resonance total cross section



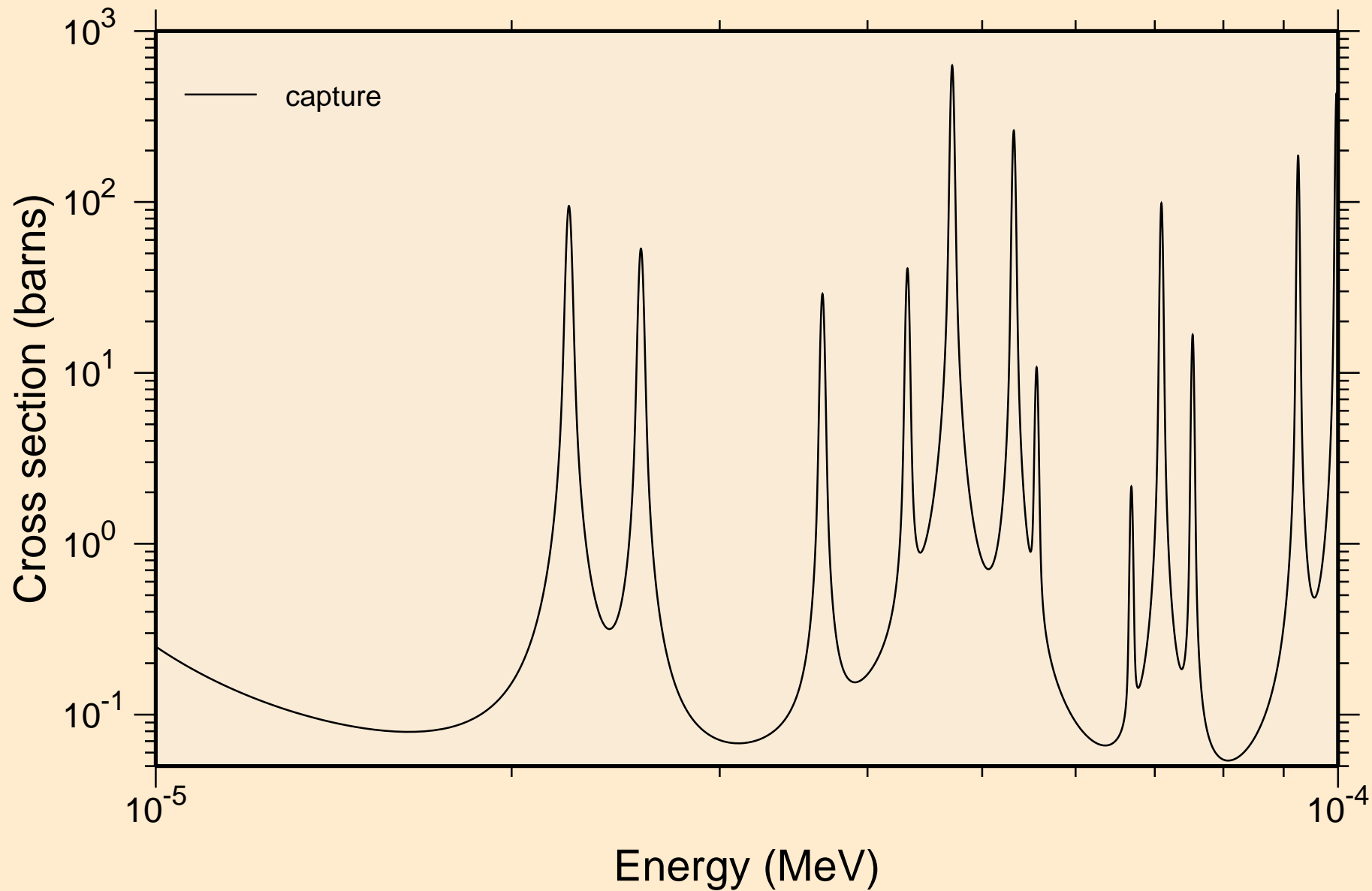
EU159 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
resonance total cross section



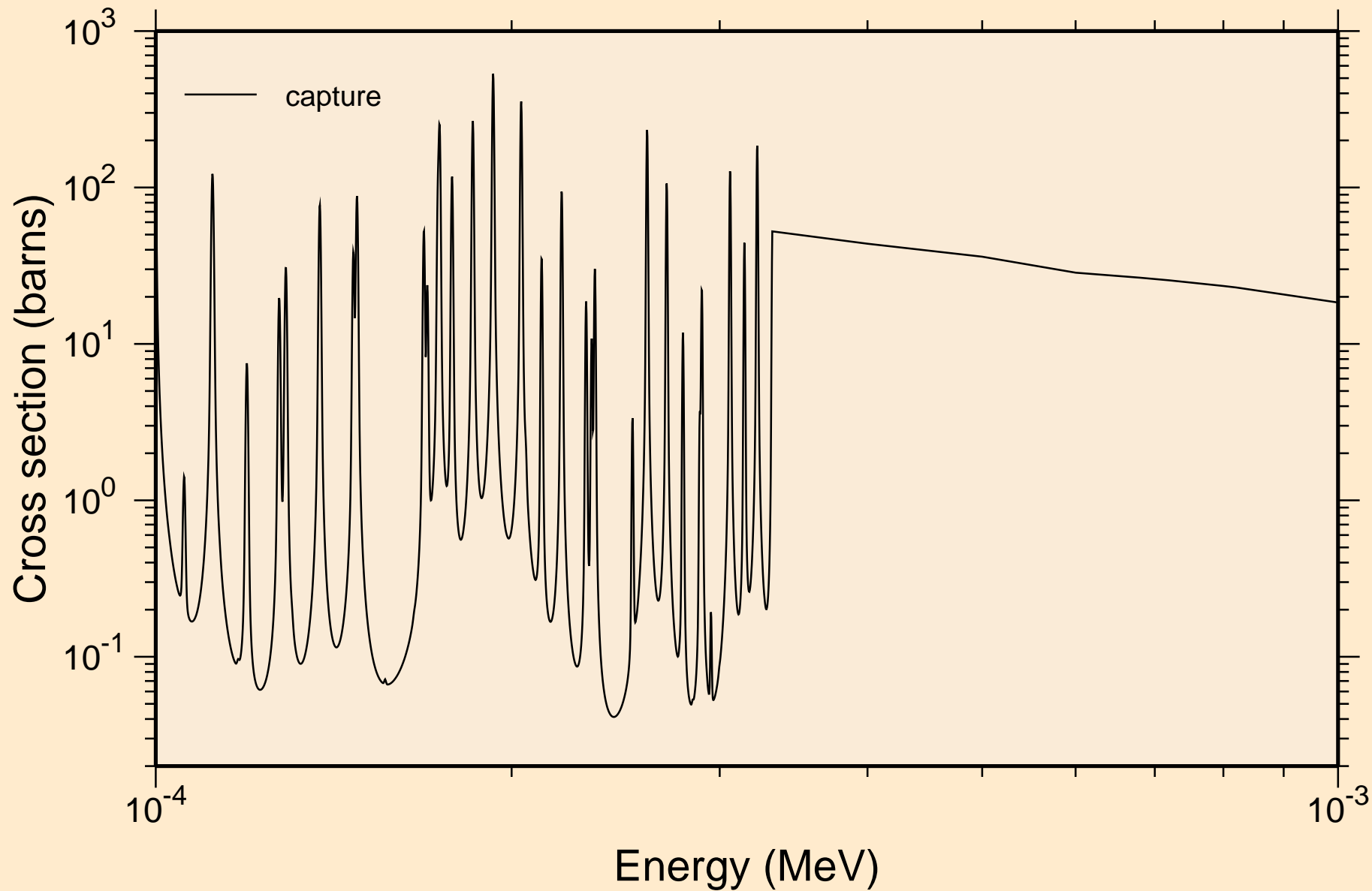
EU159 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
resonance absorption cross sections



EU159 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
resonance absorption cross sections

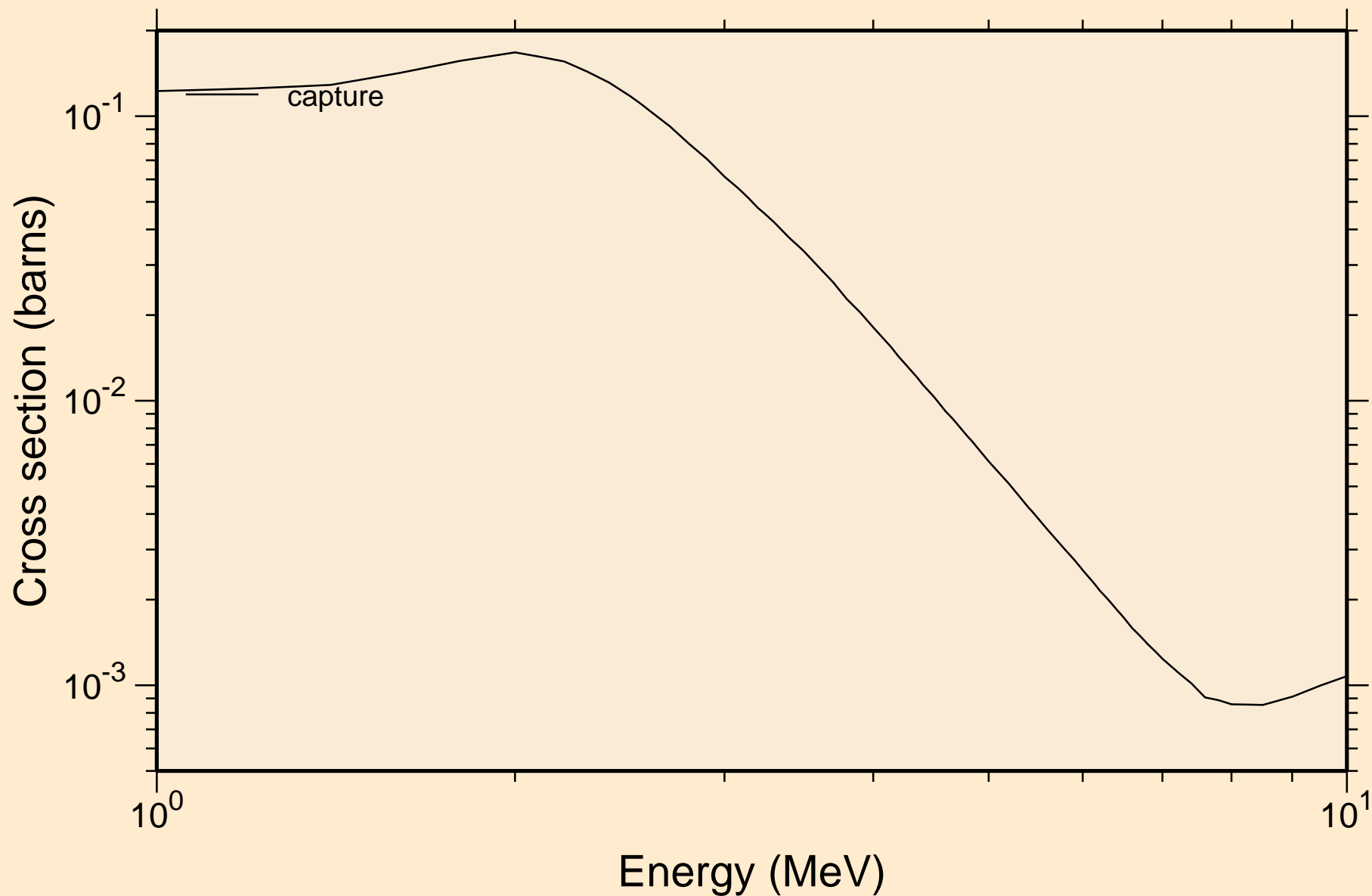


EU159 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
resonance absorption cross sections

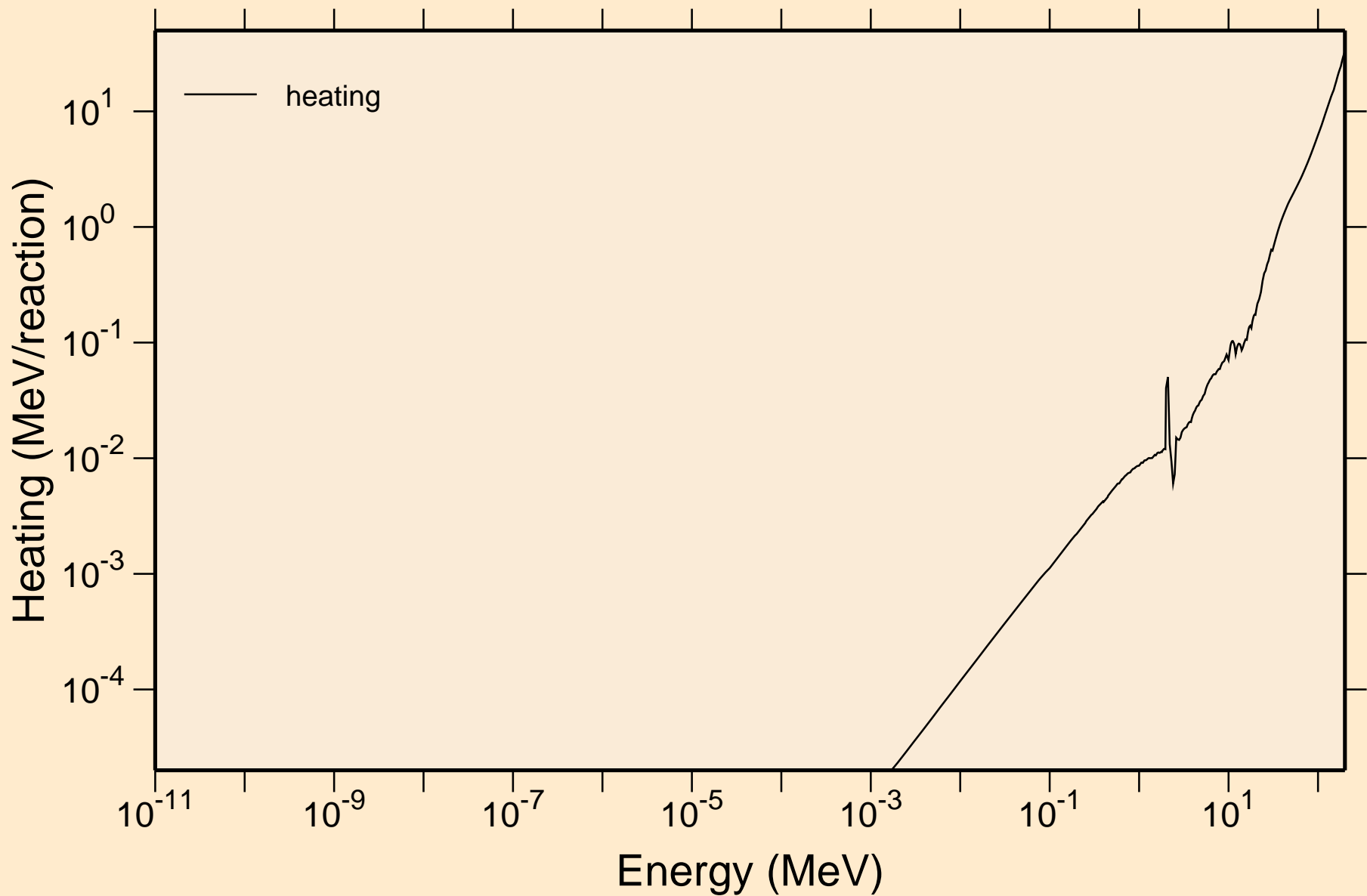




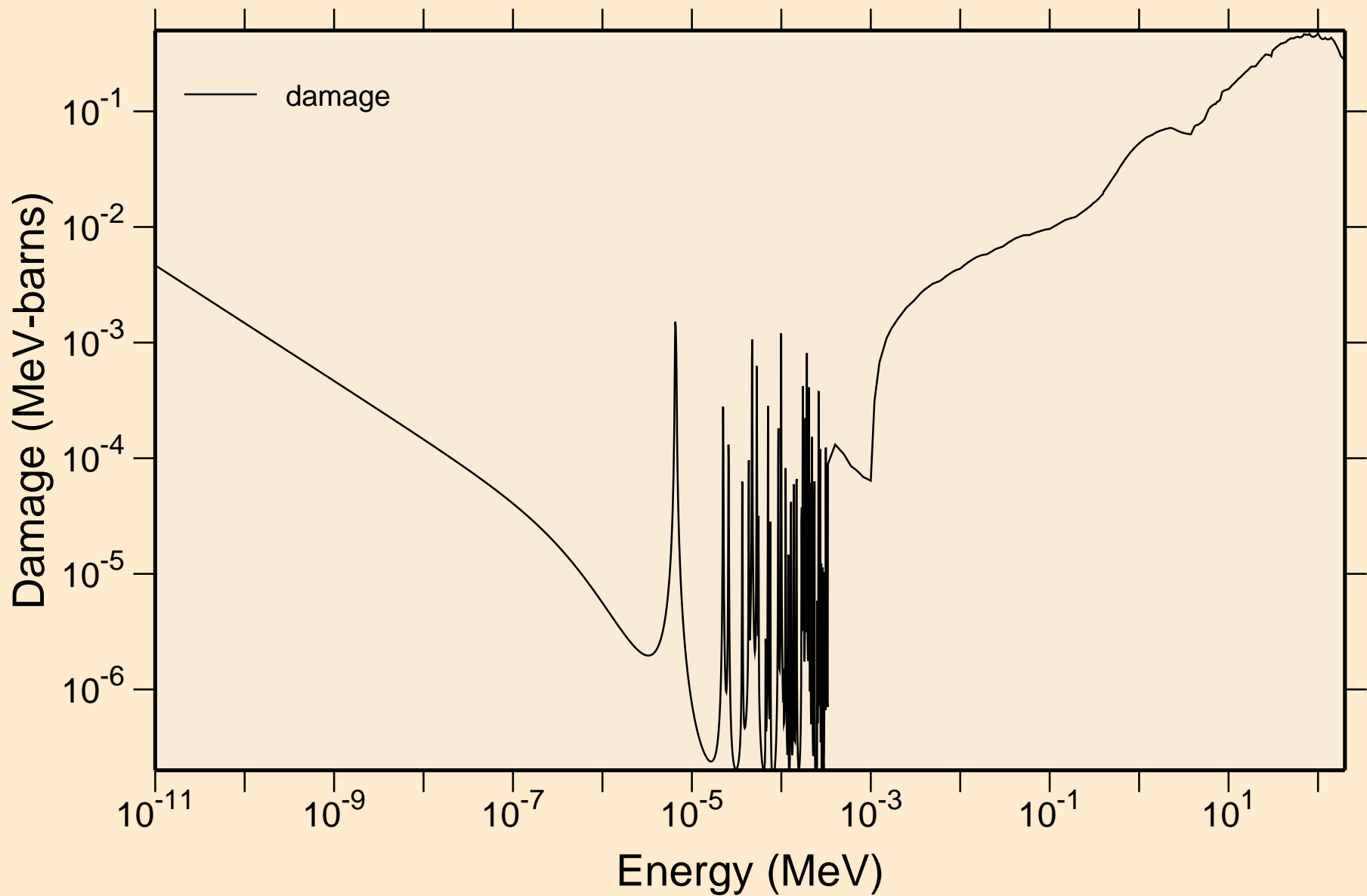
EU159 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
resonance absorption cross sections



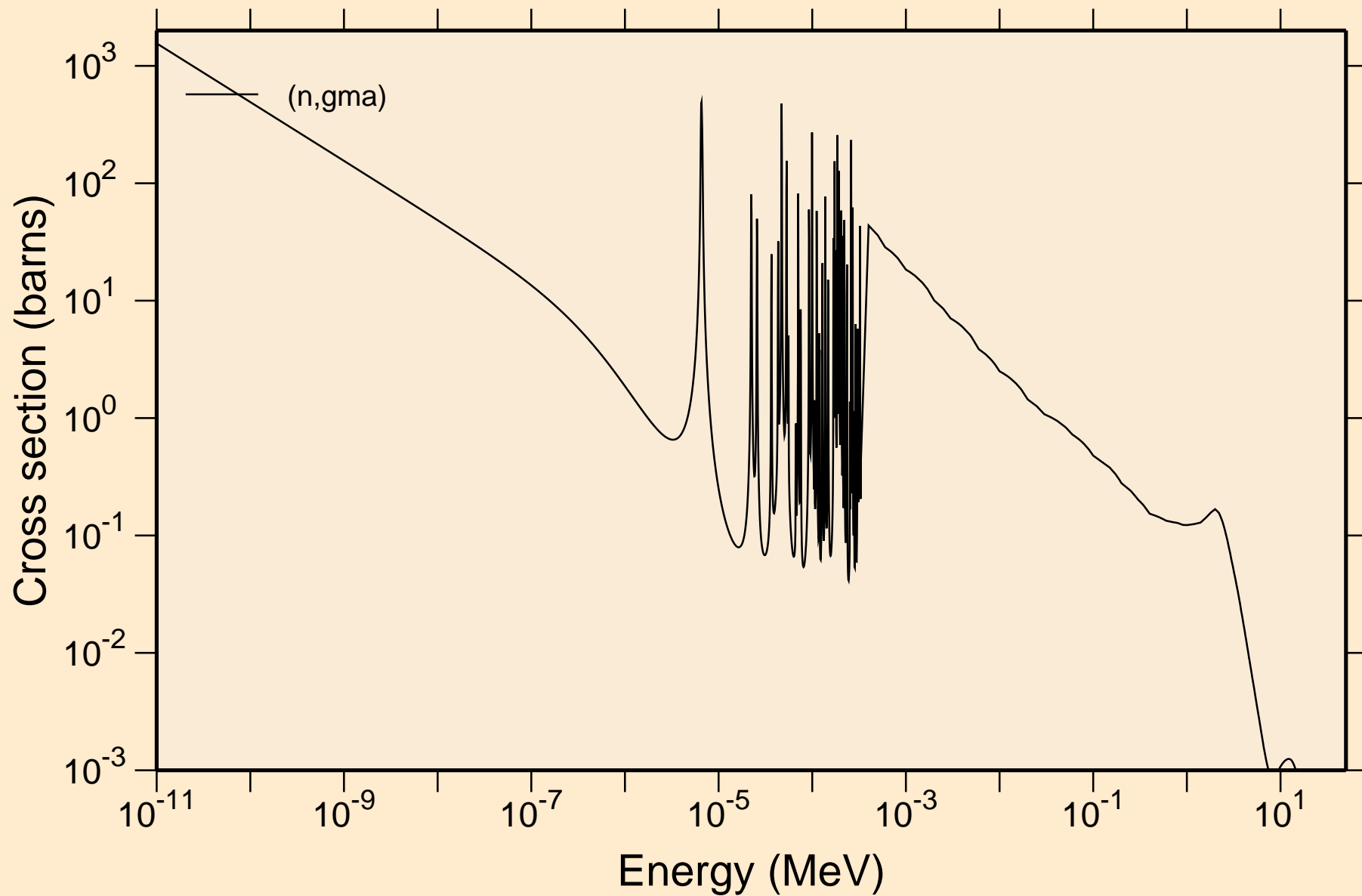
EU159 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Heating



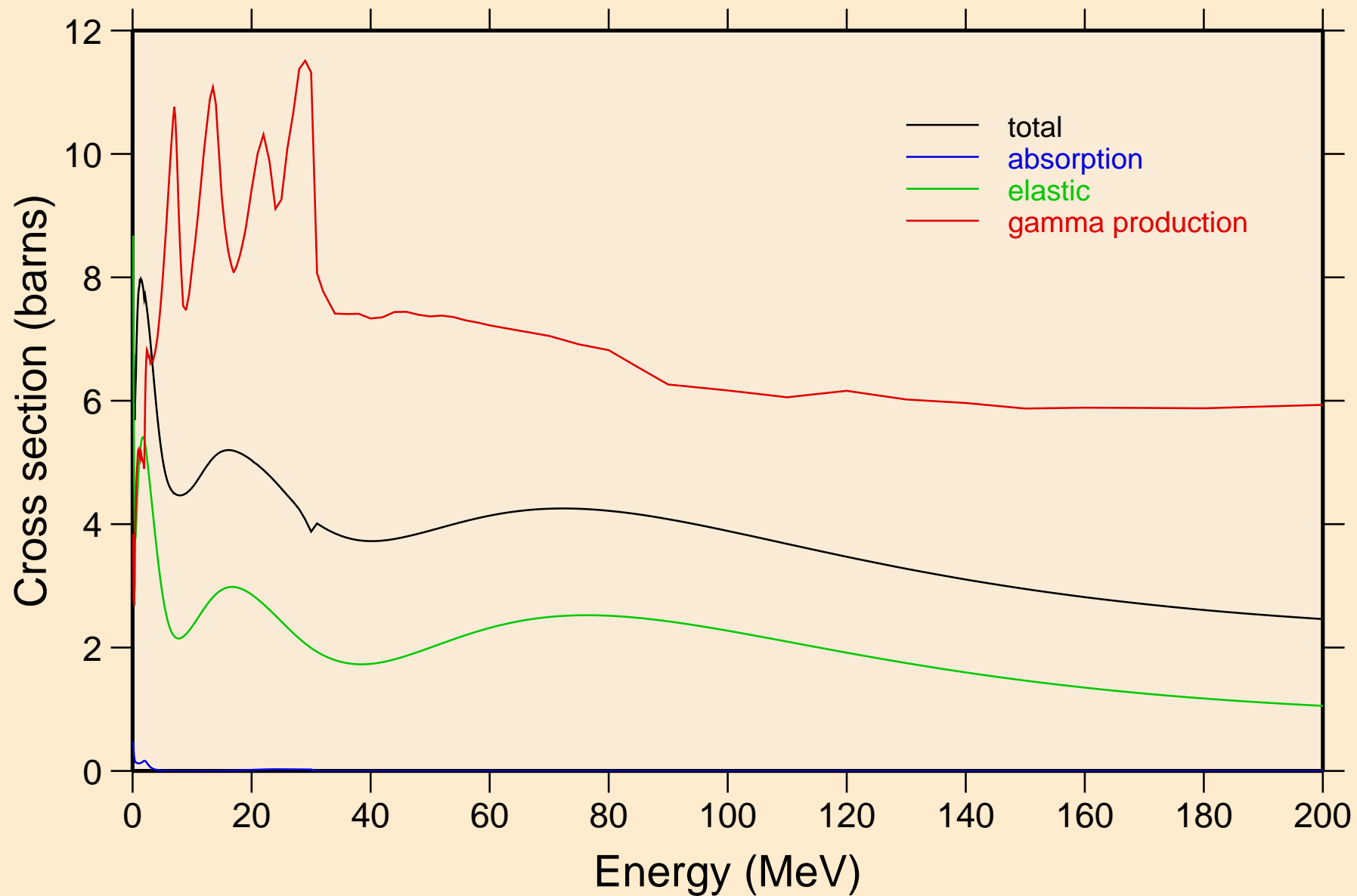
EU159 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Damage



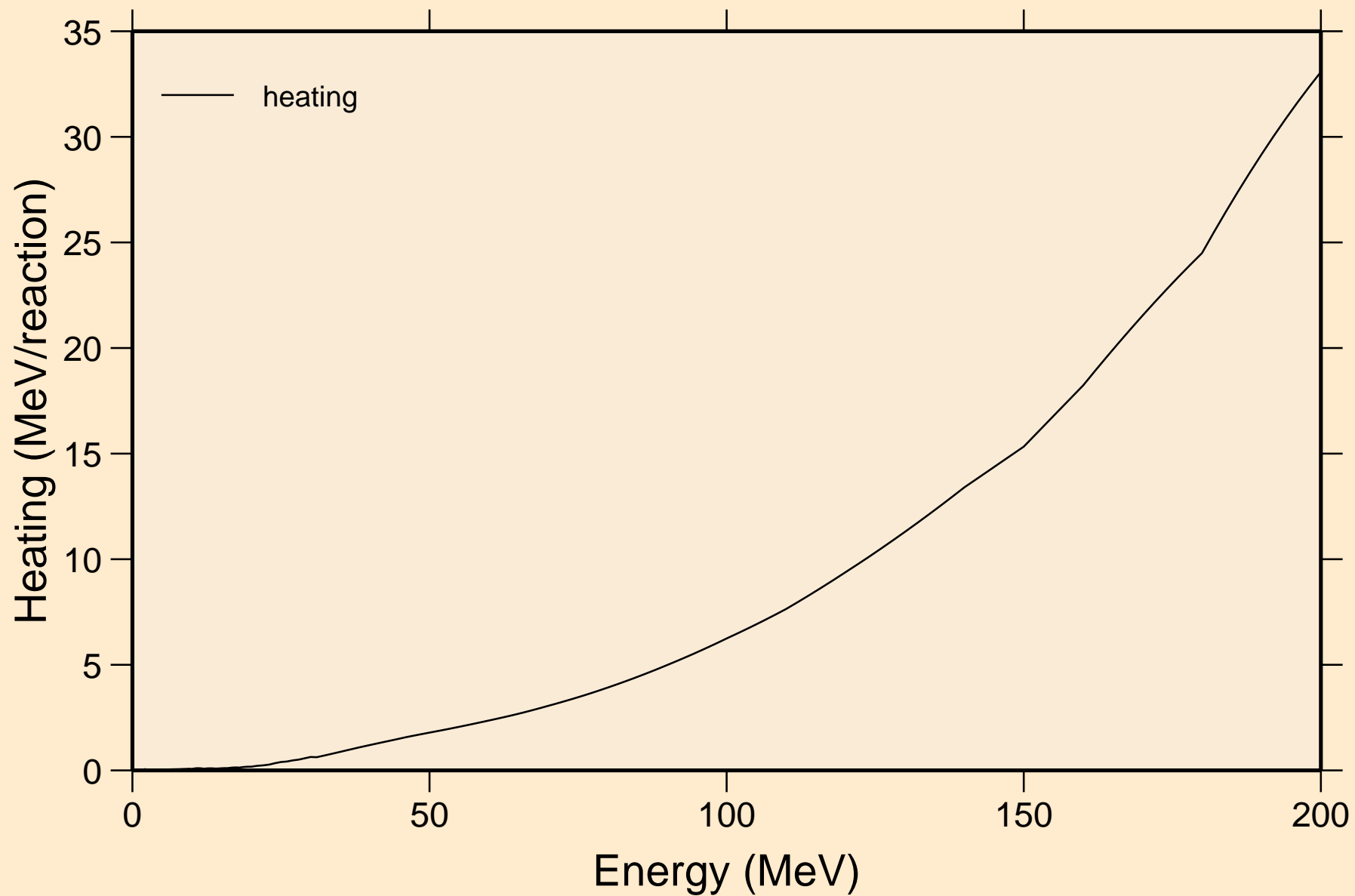
EU159 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Non-threshold reactions



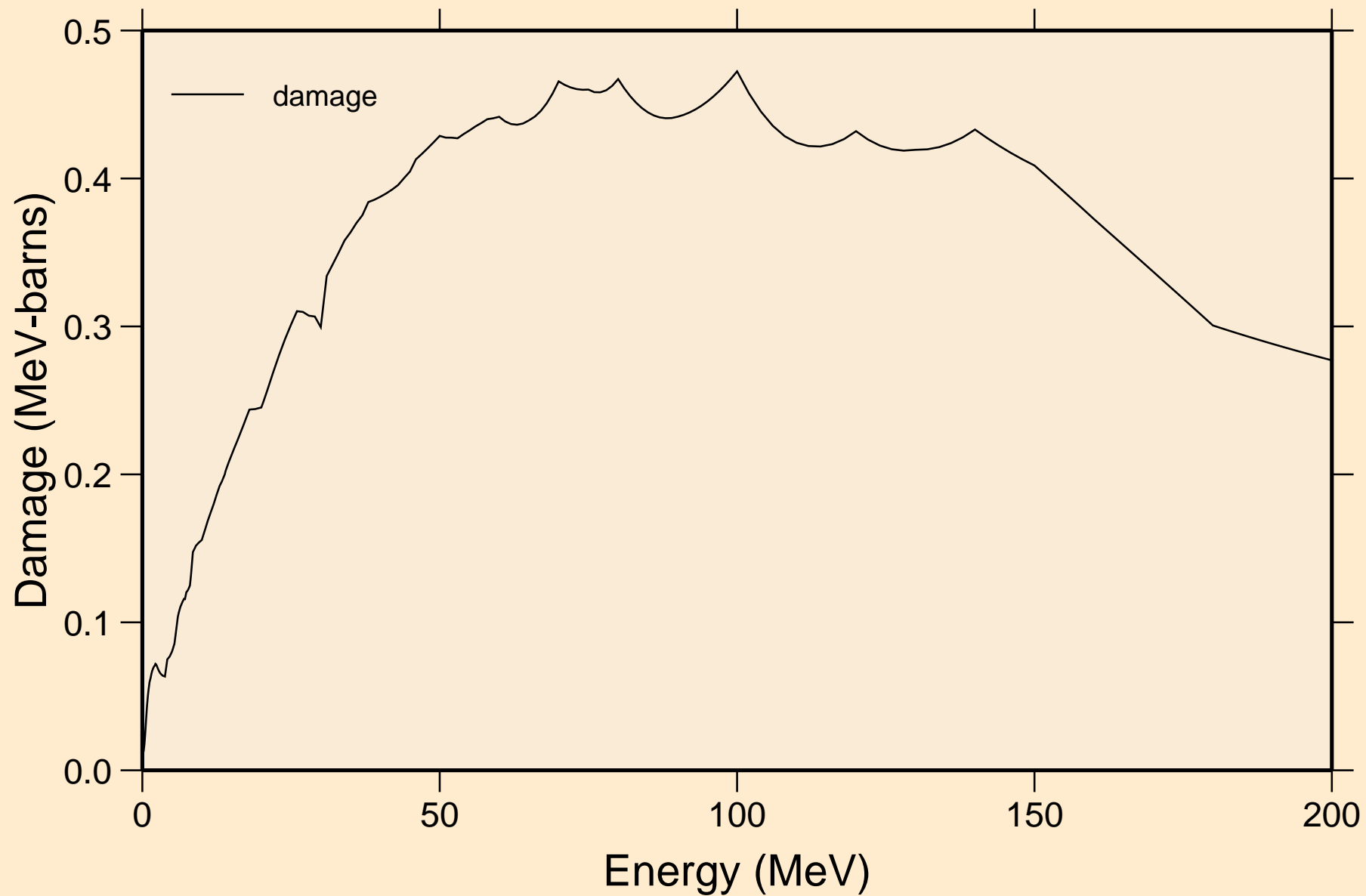
EU159 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Principal cross sections



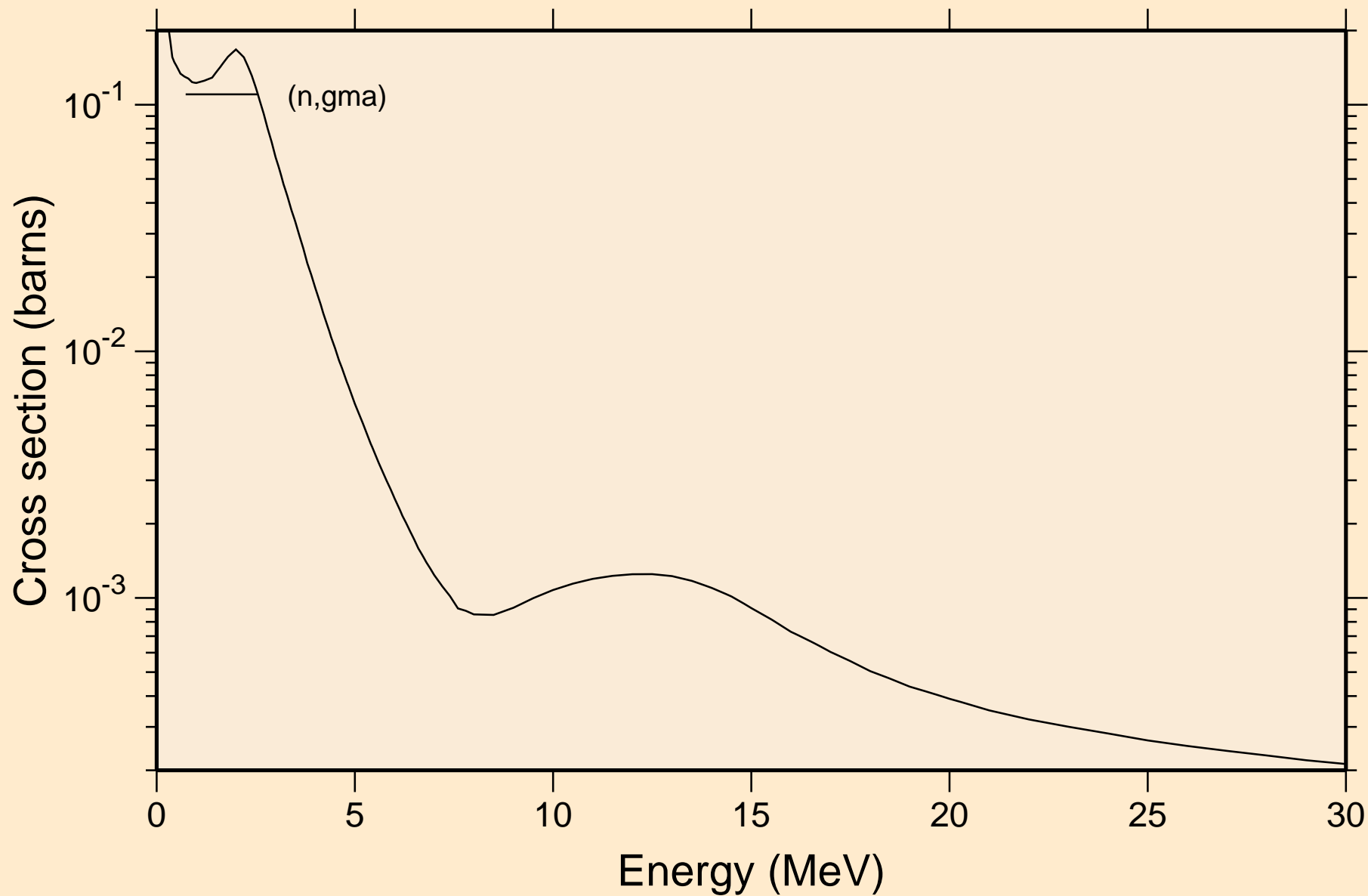
EU159 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Heating



EU159 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Damage

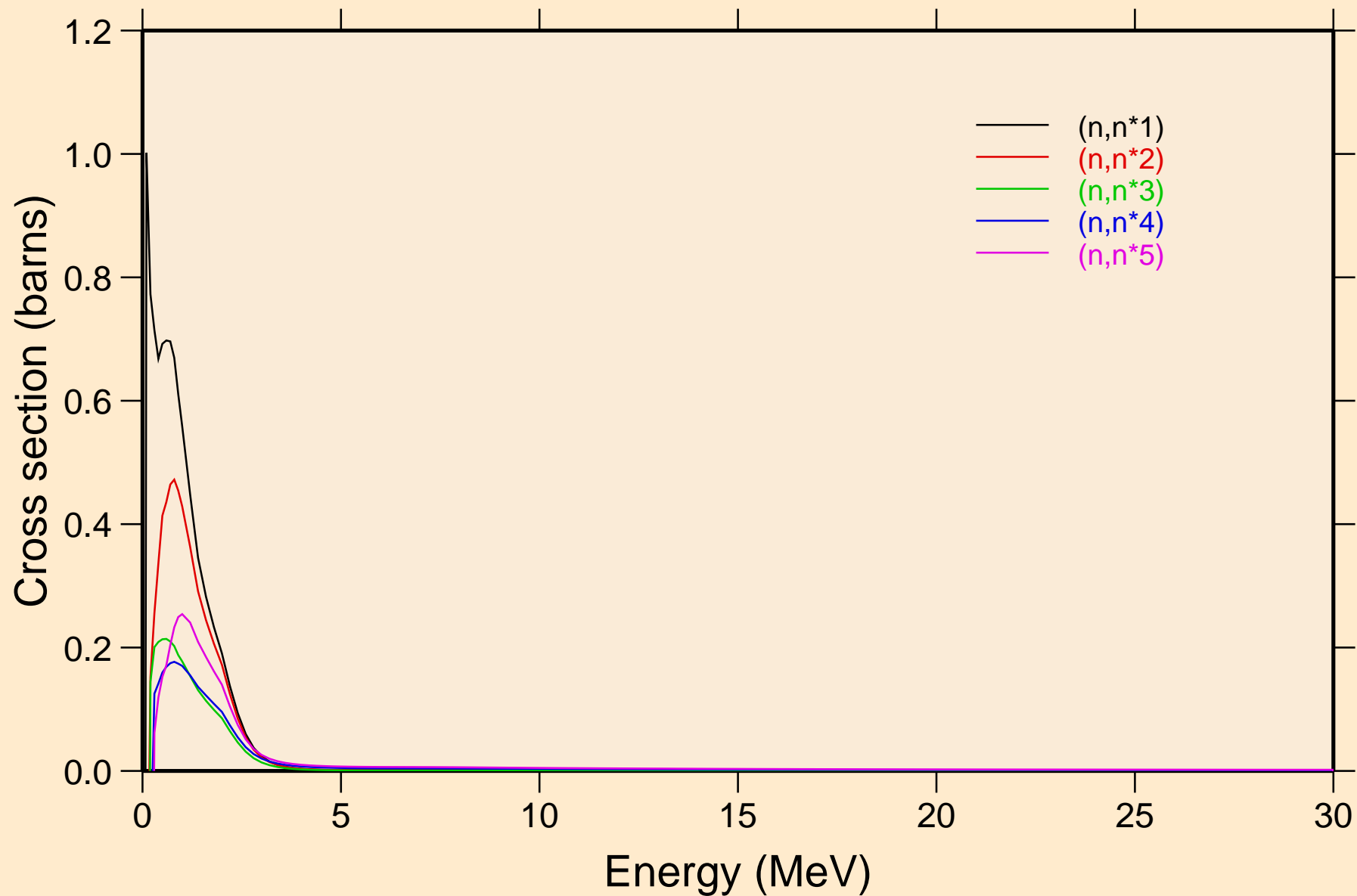


EU159 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Non-threshold reactions

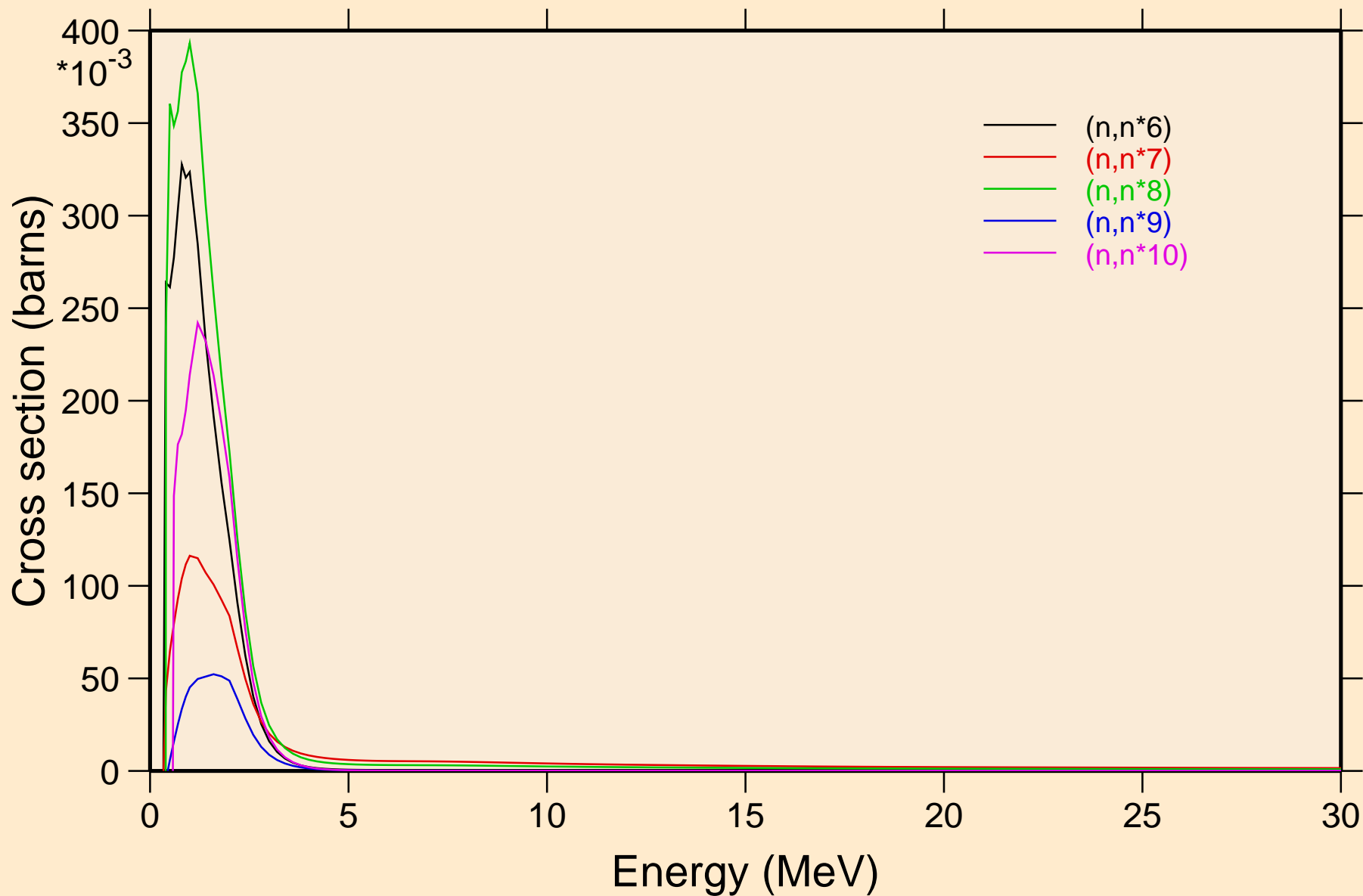




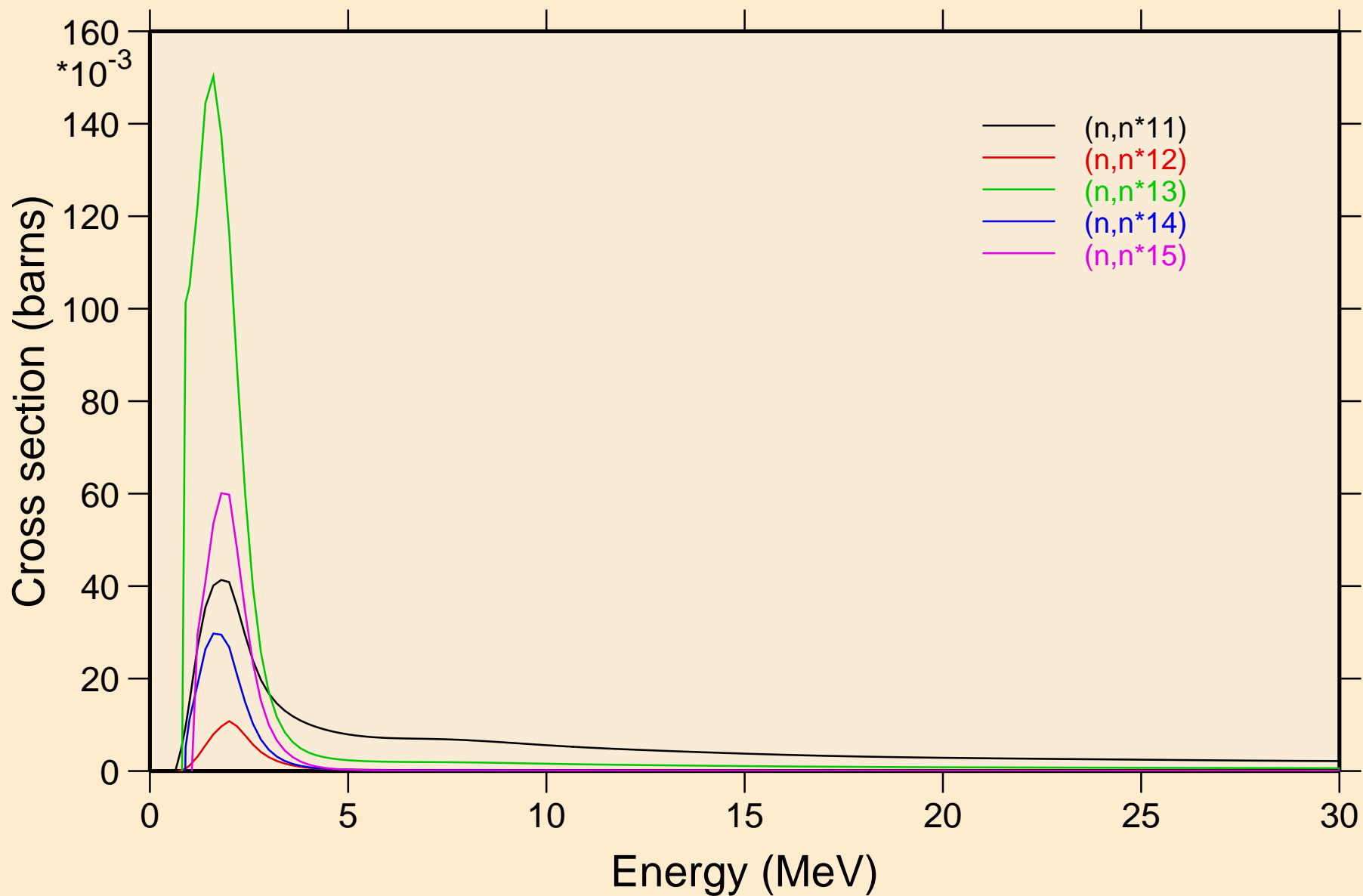
EU159 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Inelastic levels



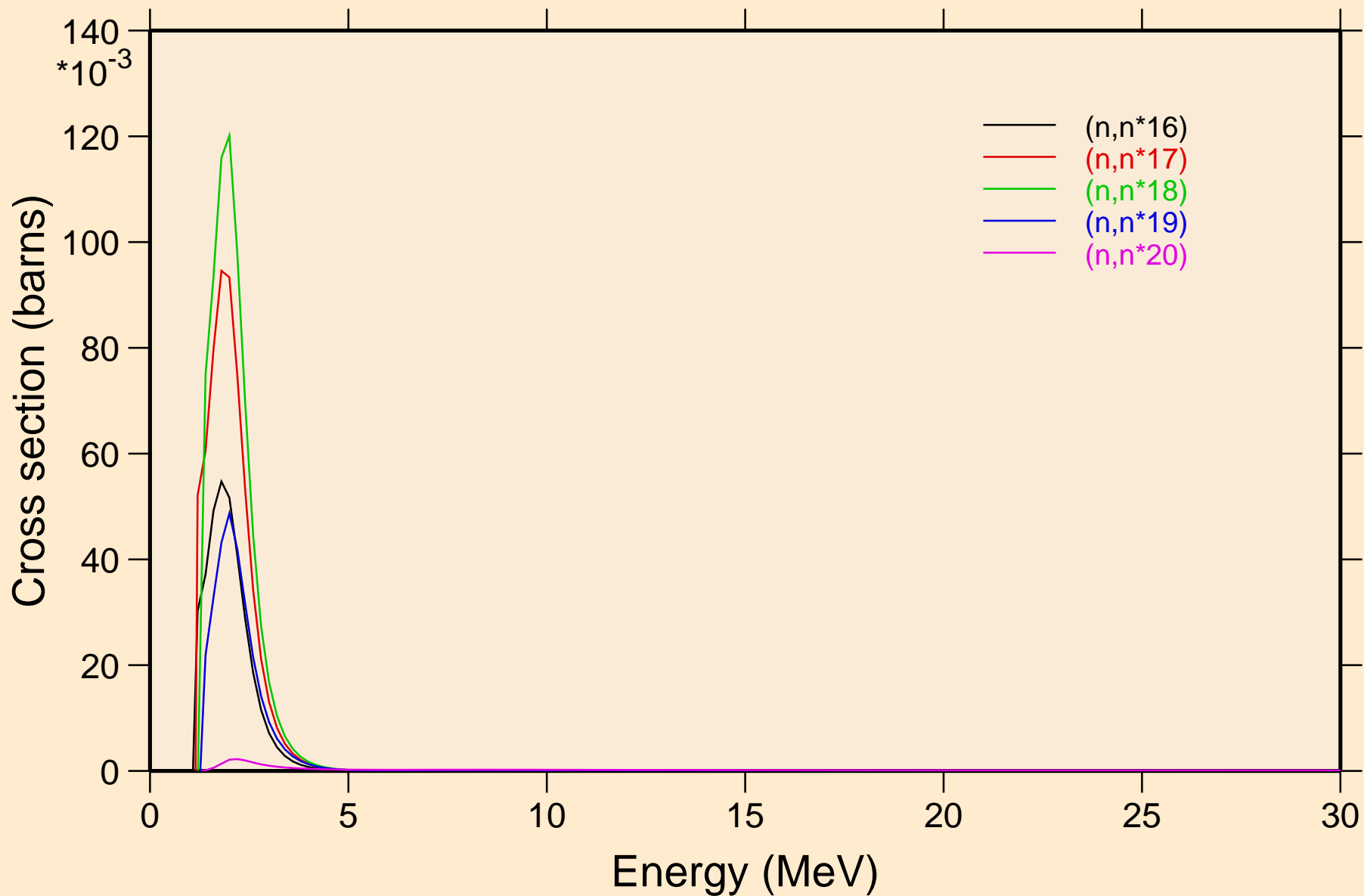
EU159 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Inelastic levels



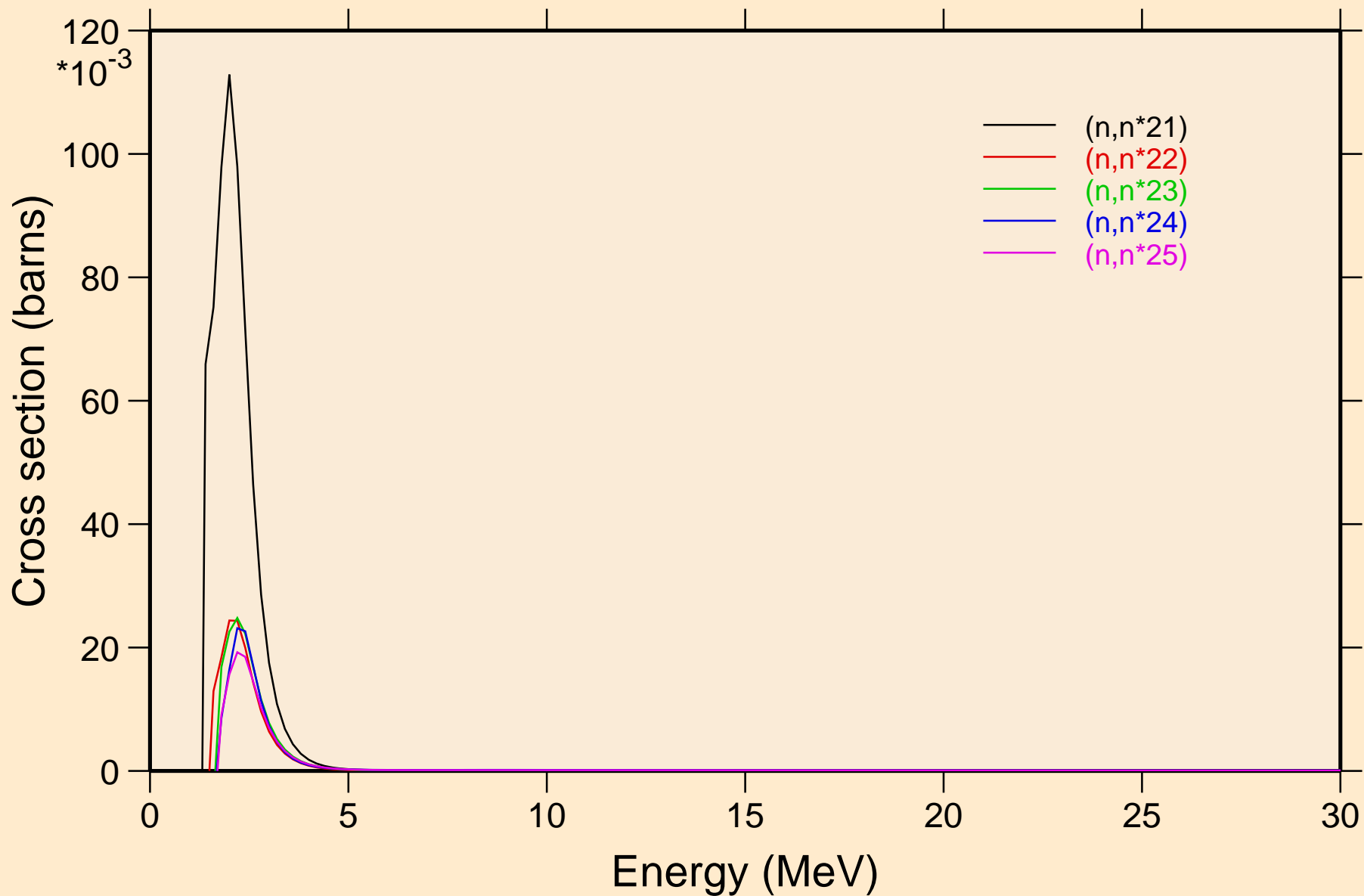
EU159 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Inelastic levels



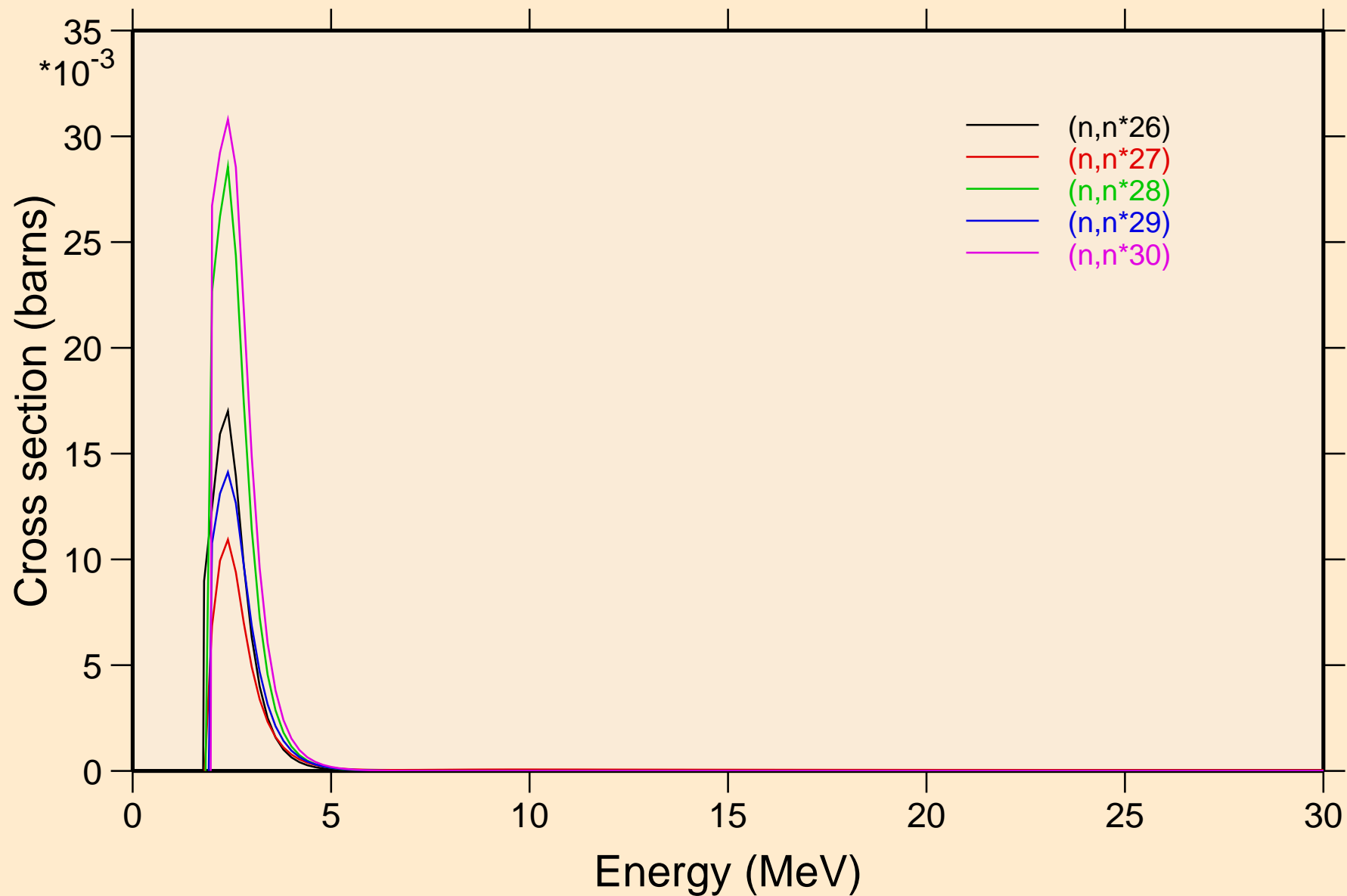
EU159 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Inelastic levels



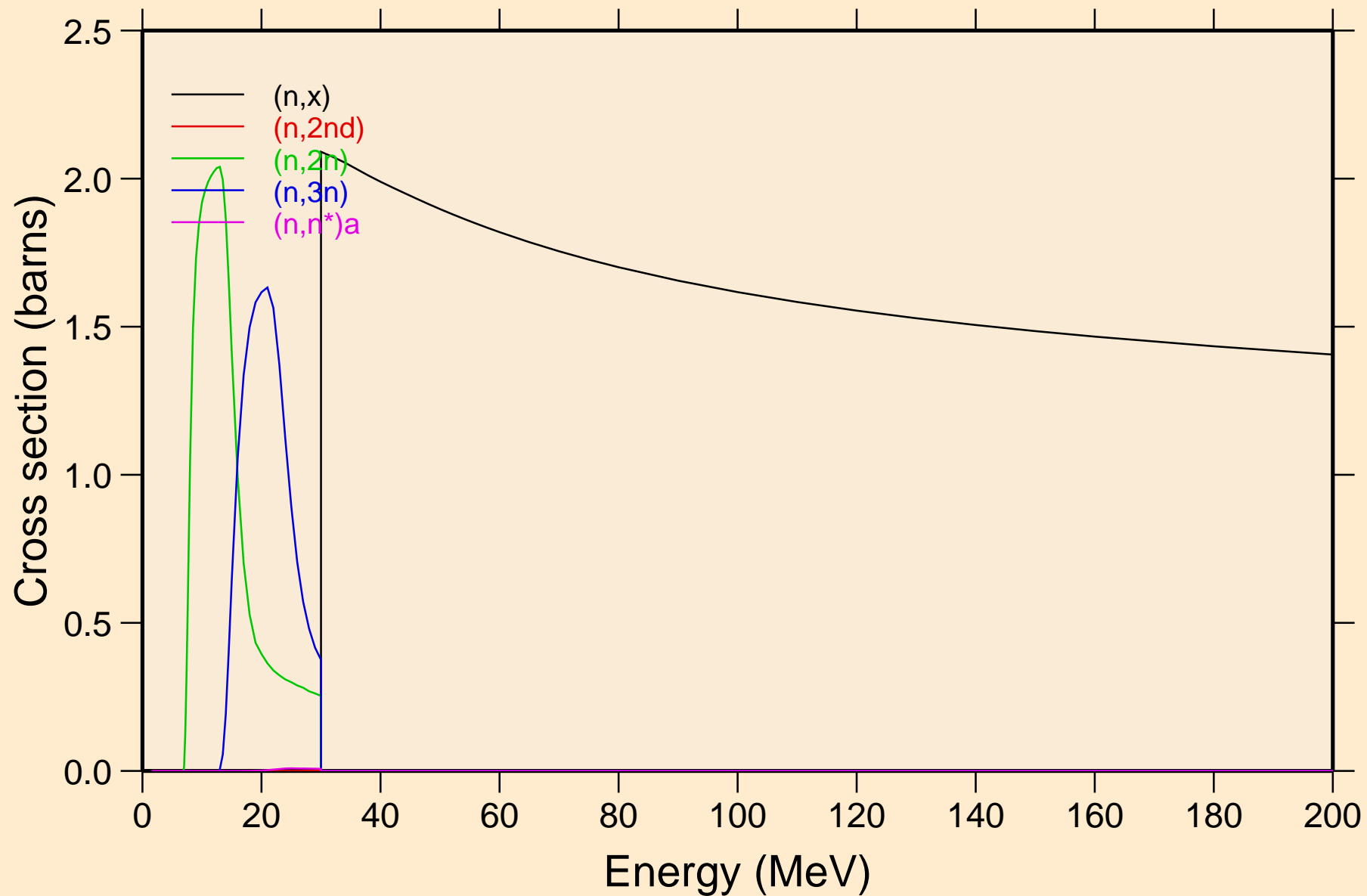
EU159 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Inelastic levels



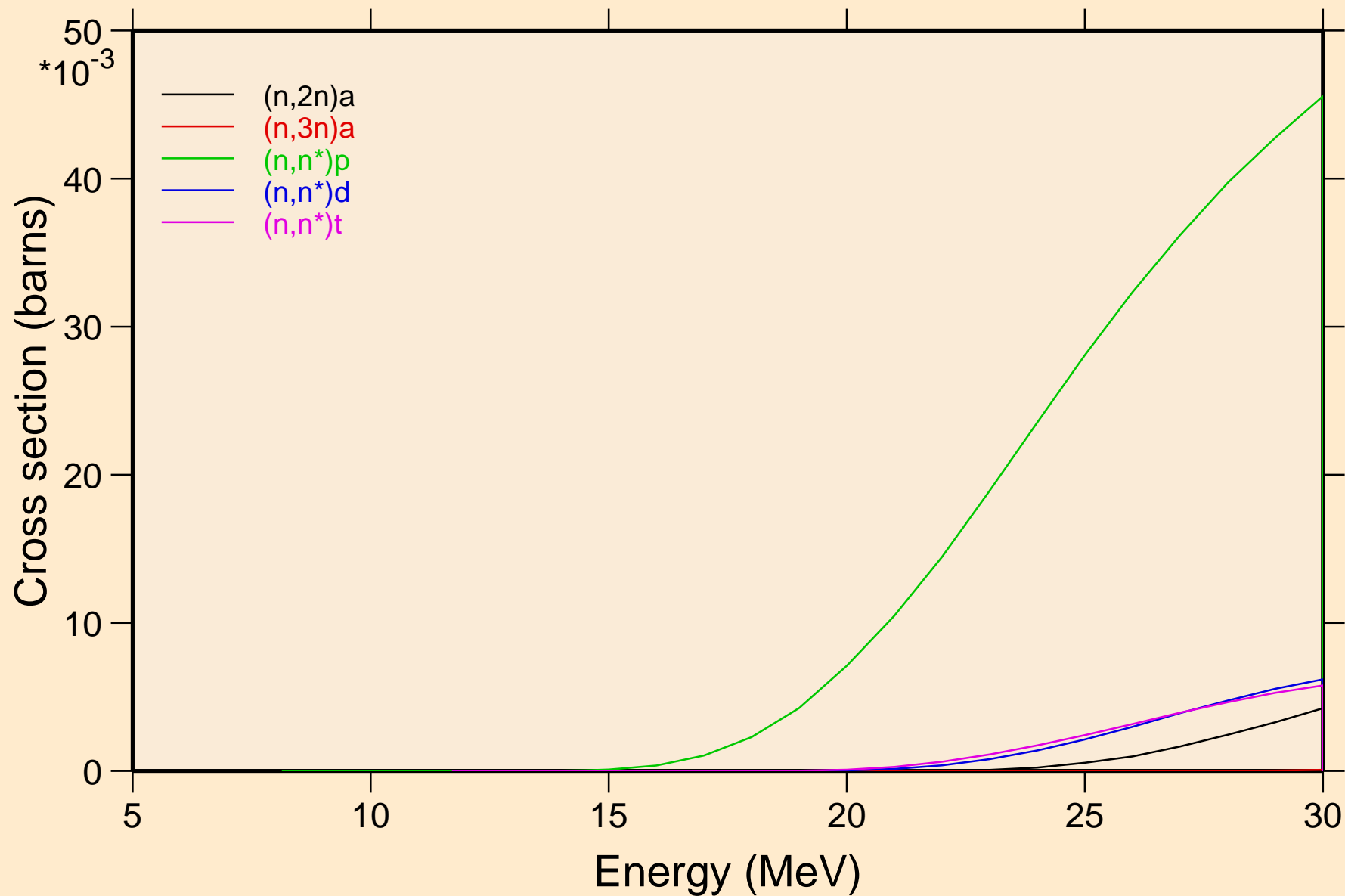
EU159 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Inelastic levels



EU159 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Threshold reactions

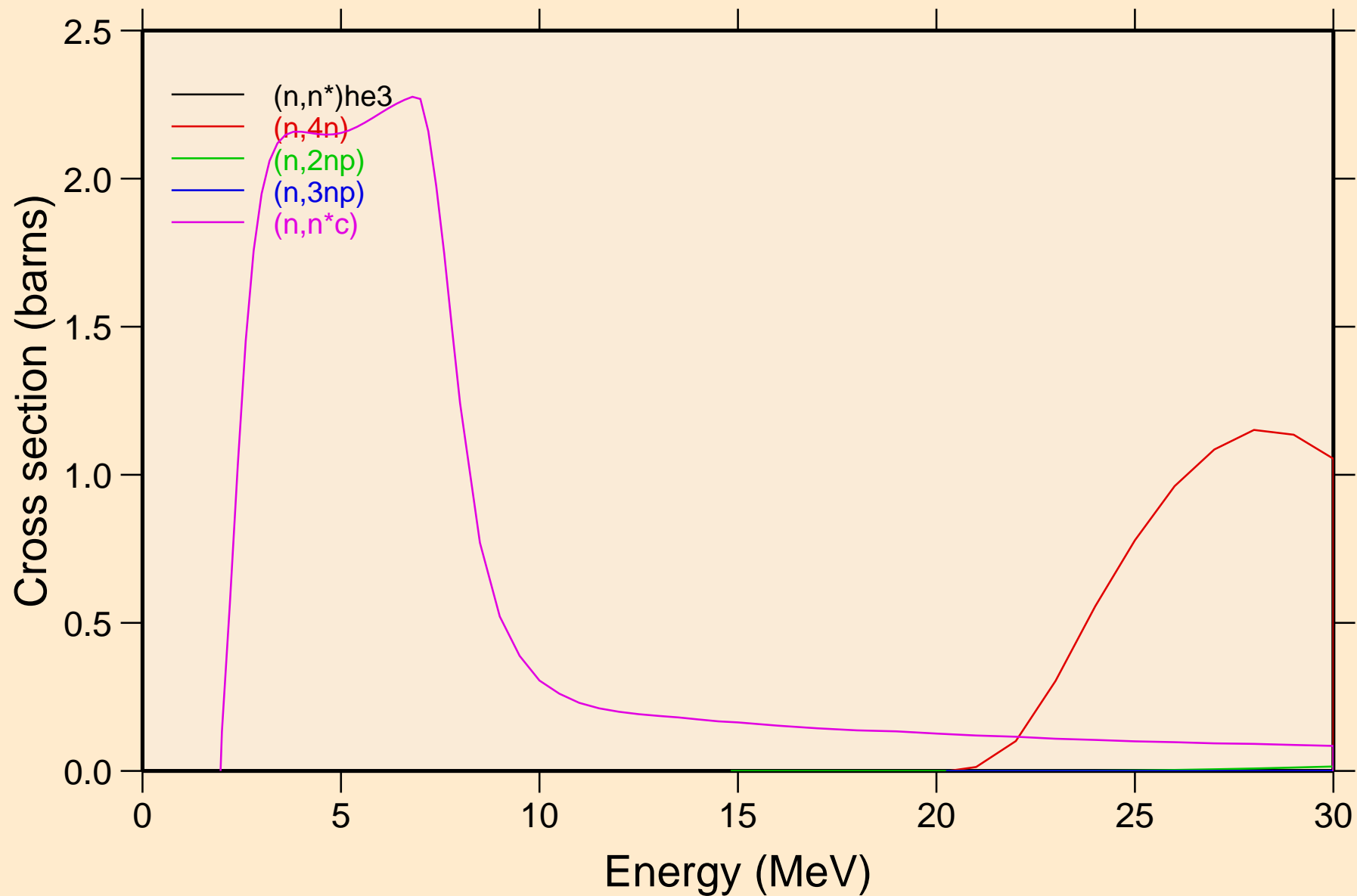


EU159 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Threshold reactions

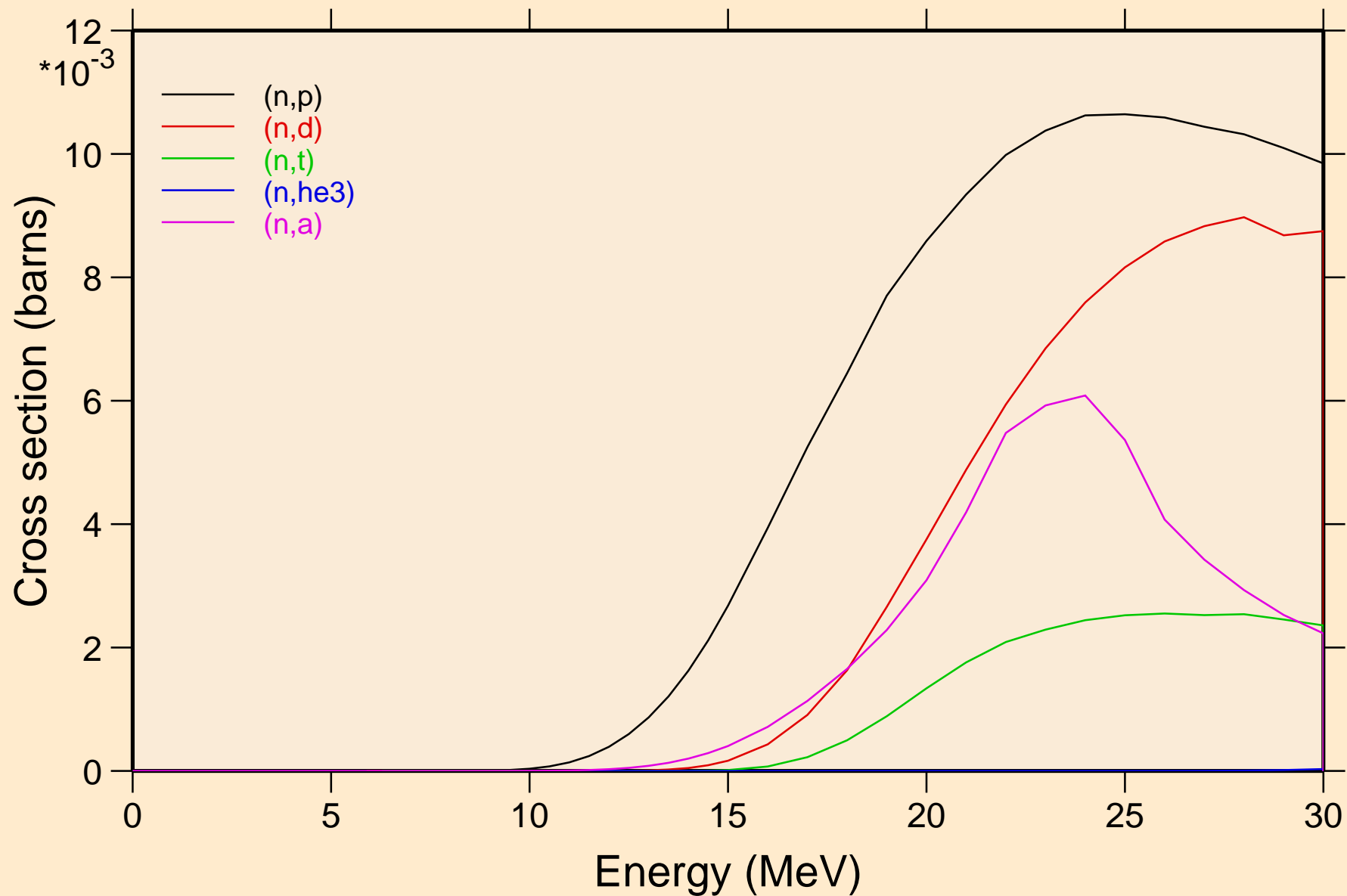




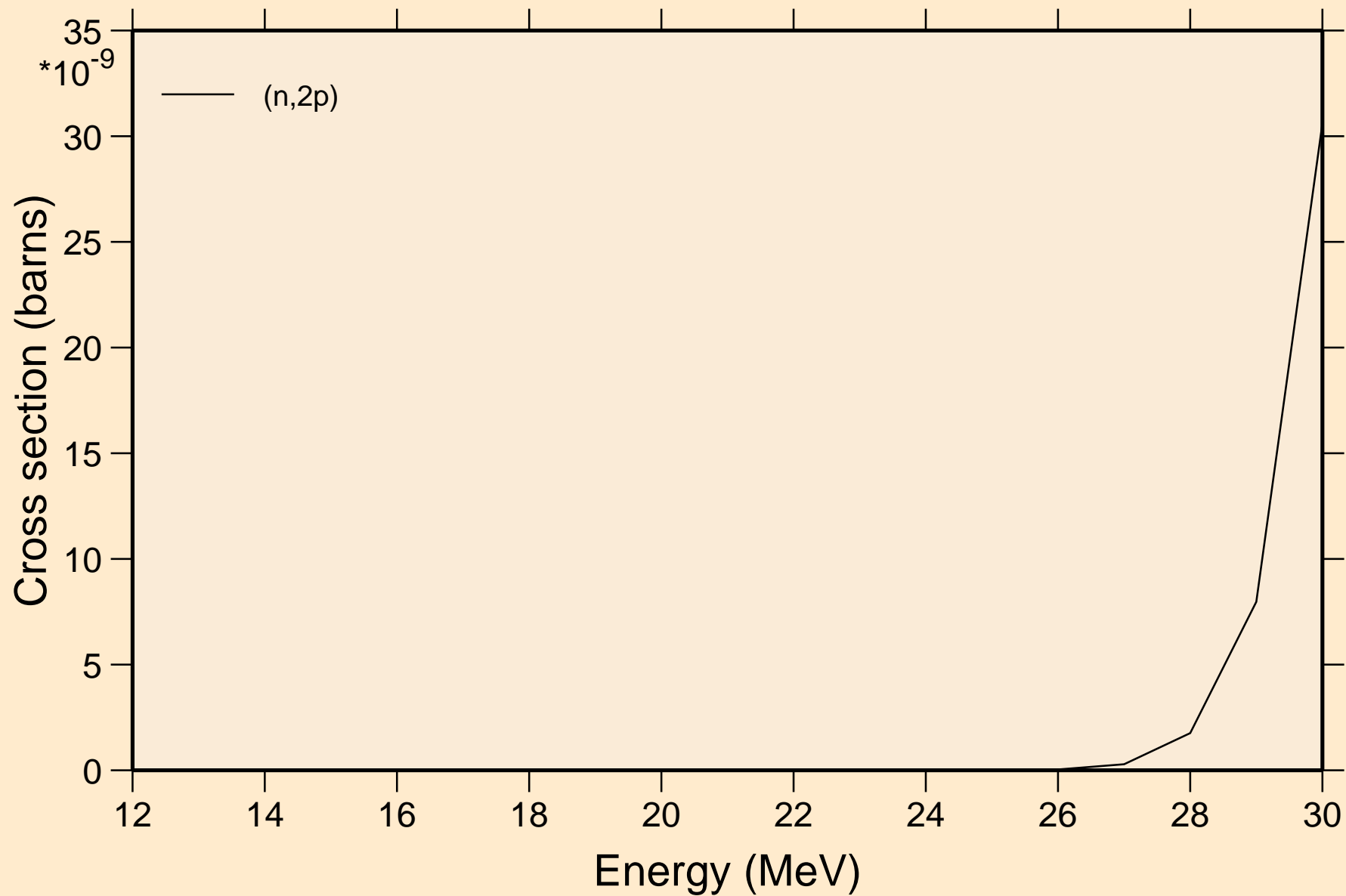
EU159 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Threshold reactions



EU159 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Threshold reactions

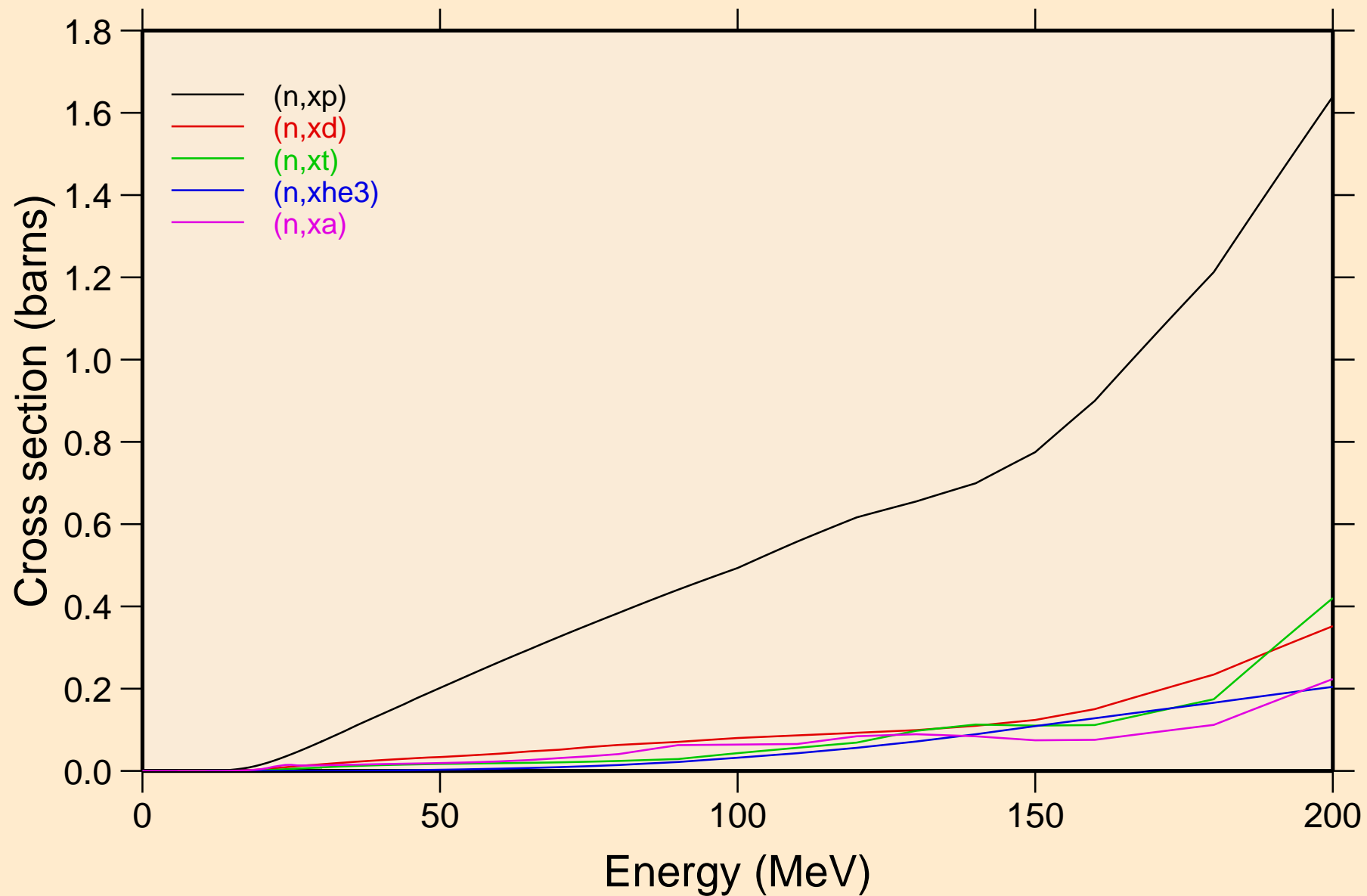


EU159 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Threshold reactions

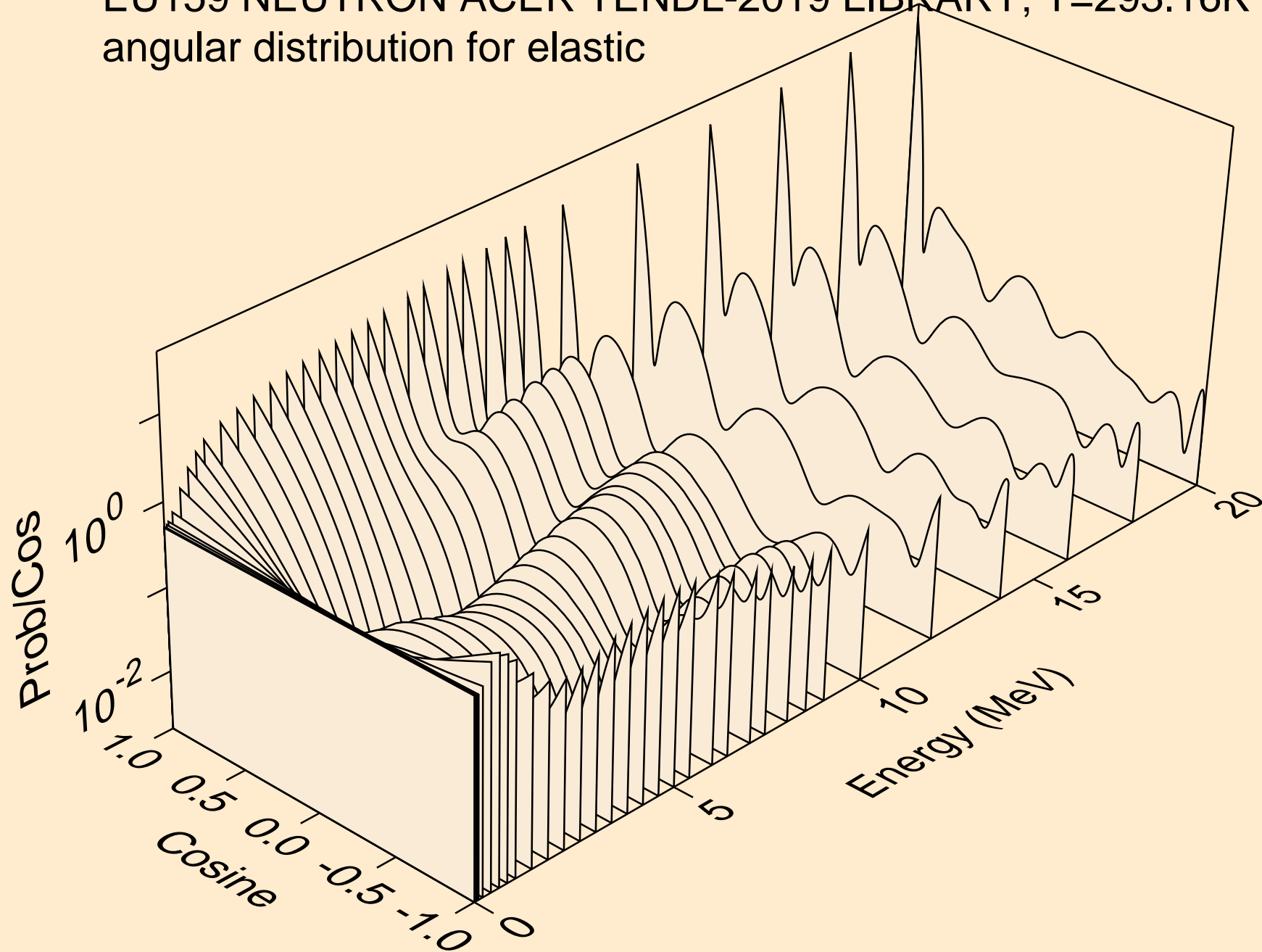


# EU159 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K

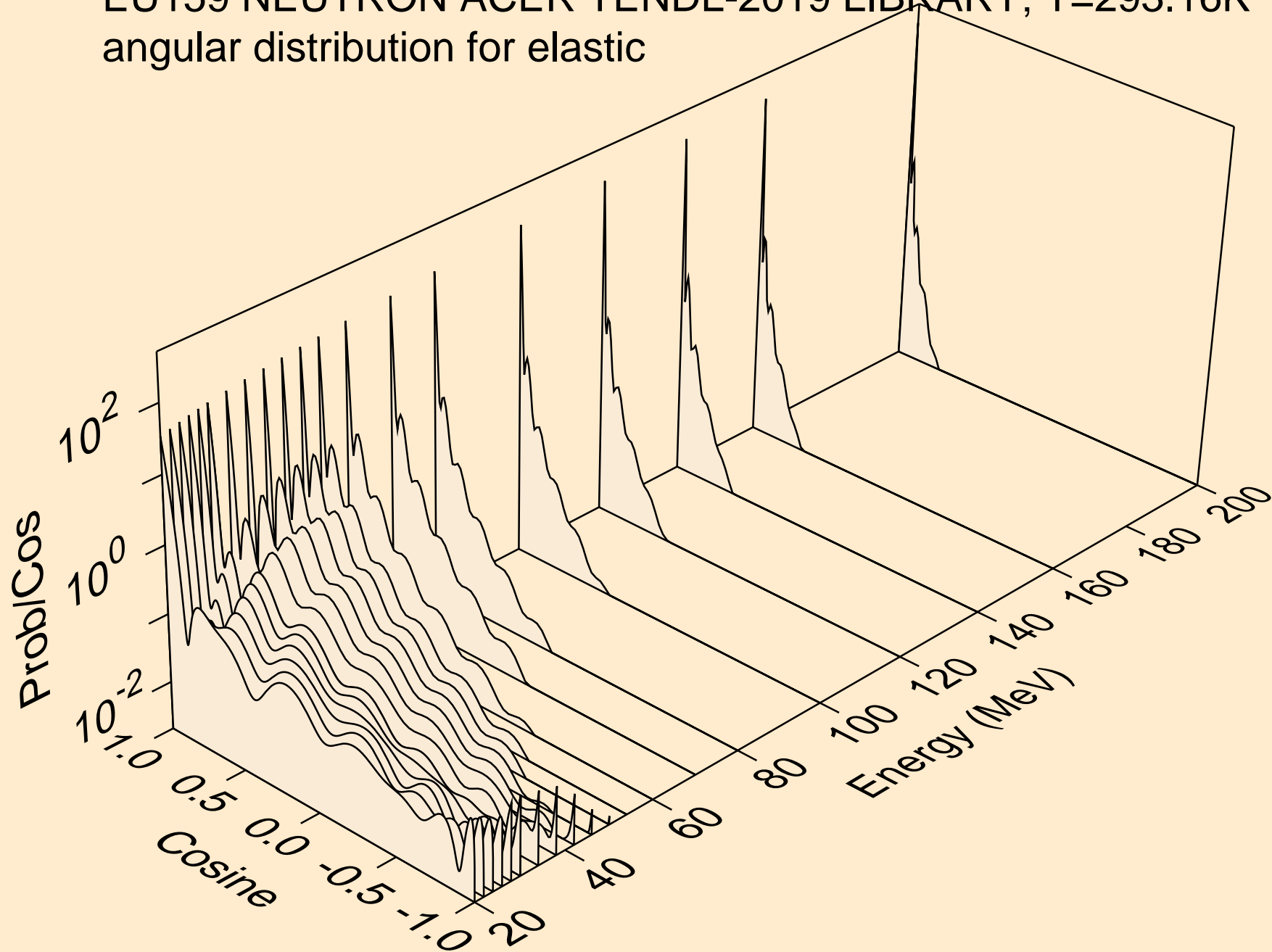
## Threshold reactions



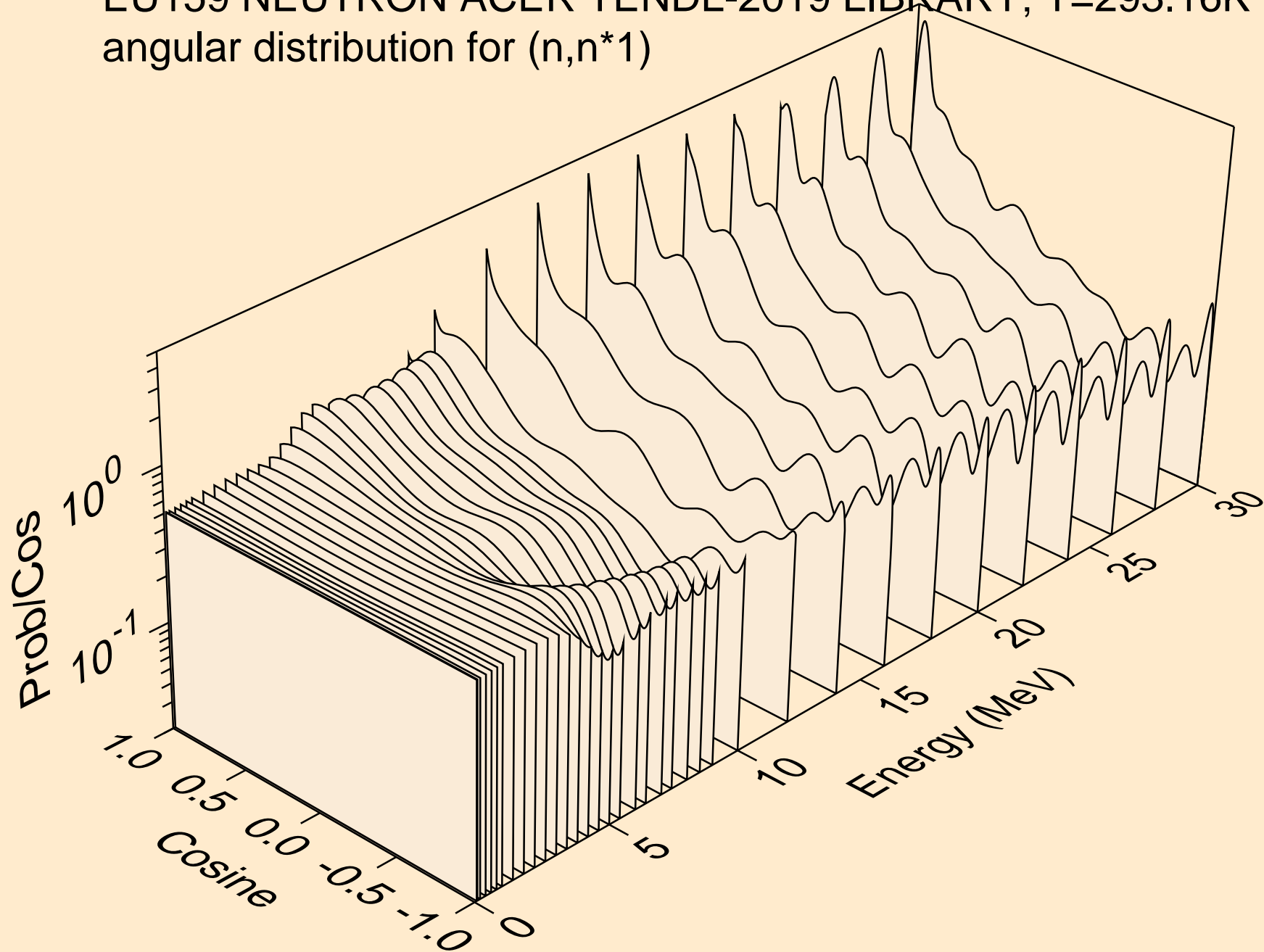
EU159 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for elastic



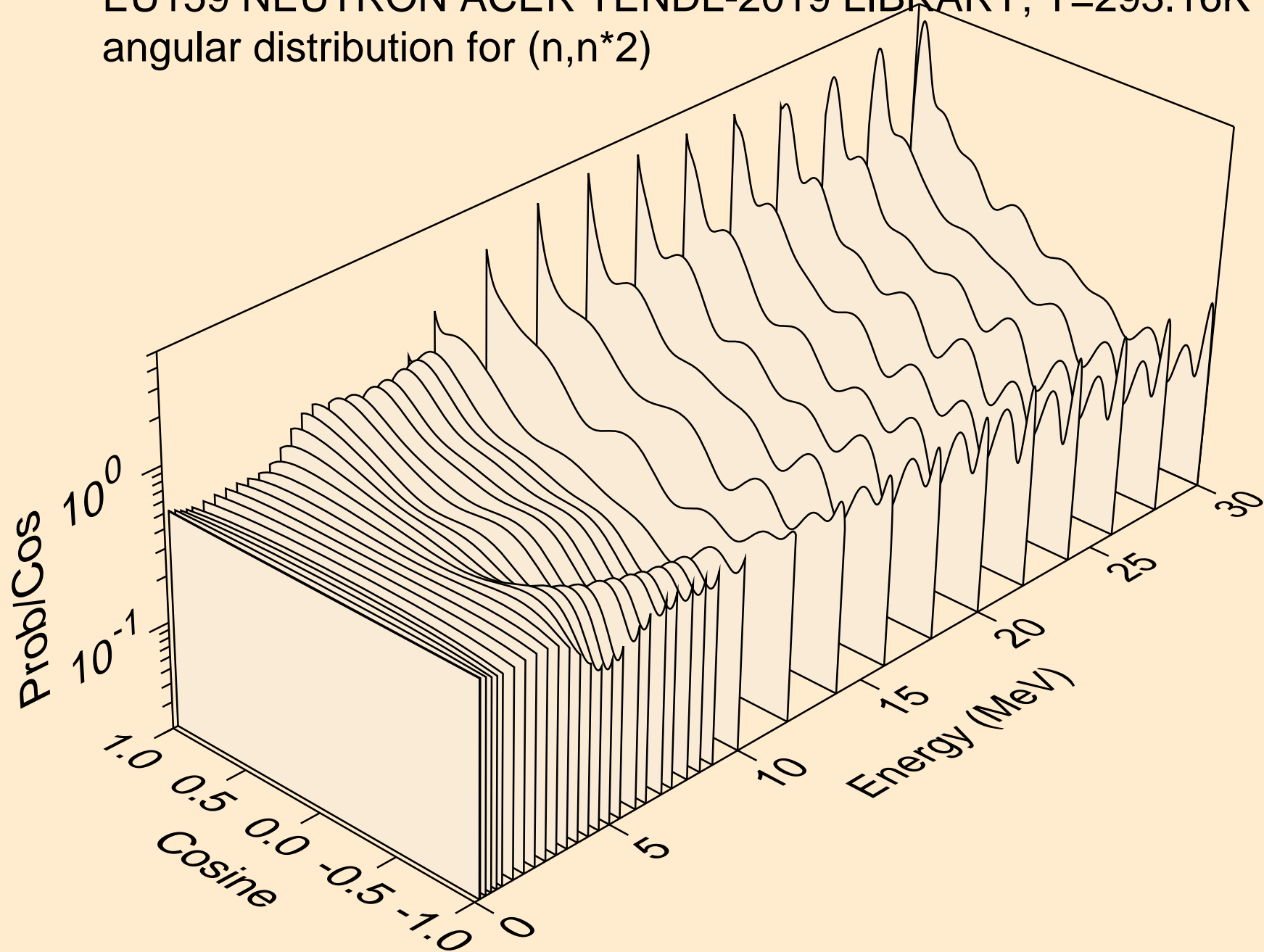
EU159 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for elastic



EU159 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*1)

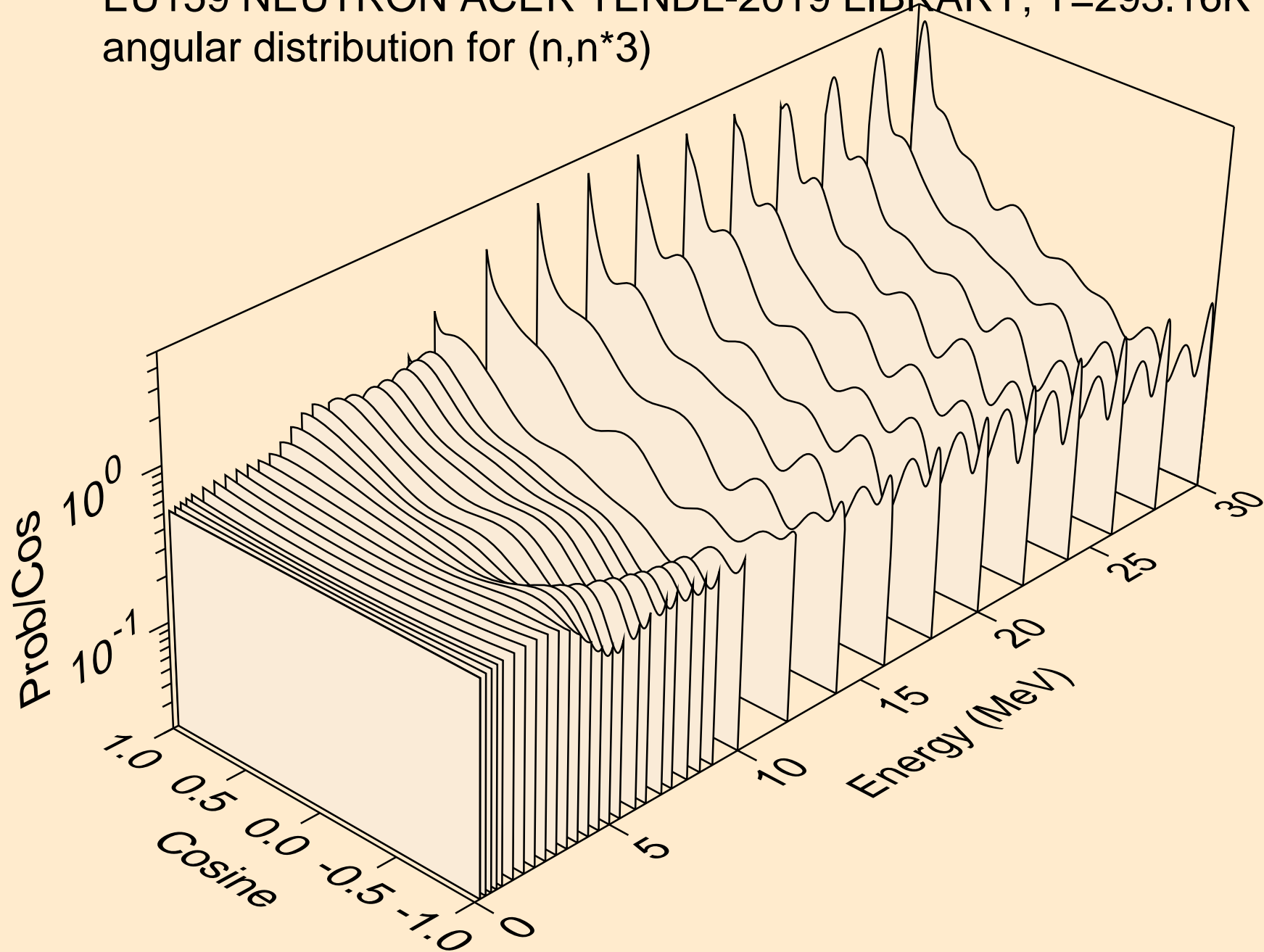


EU159 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*2)

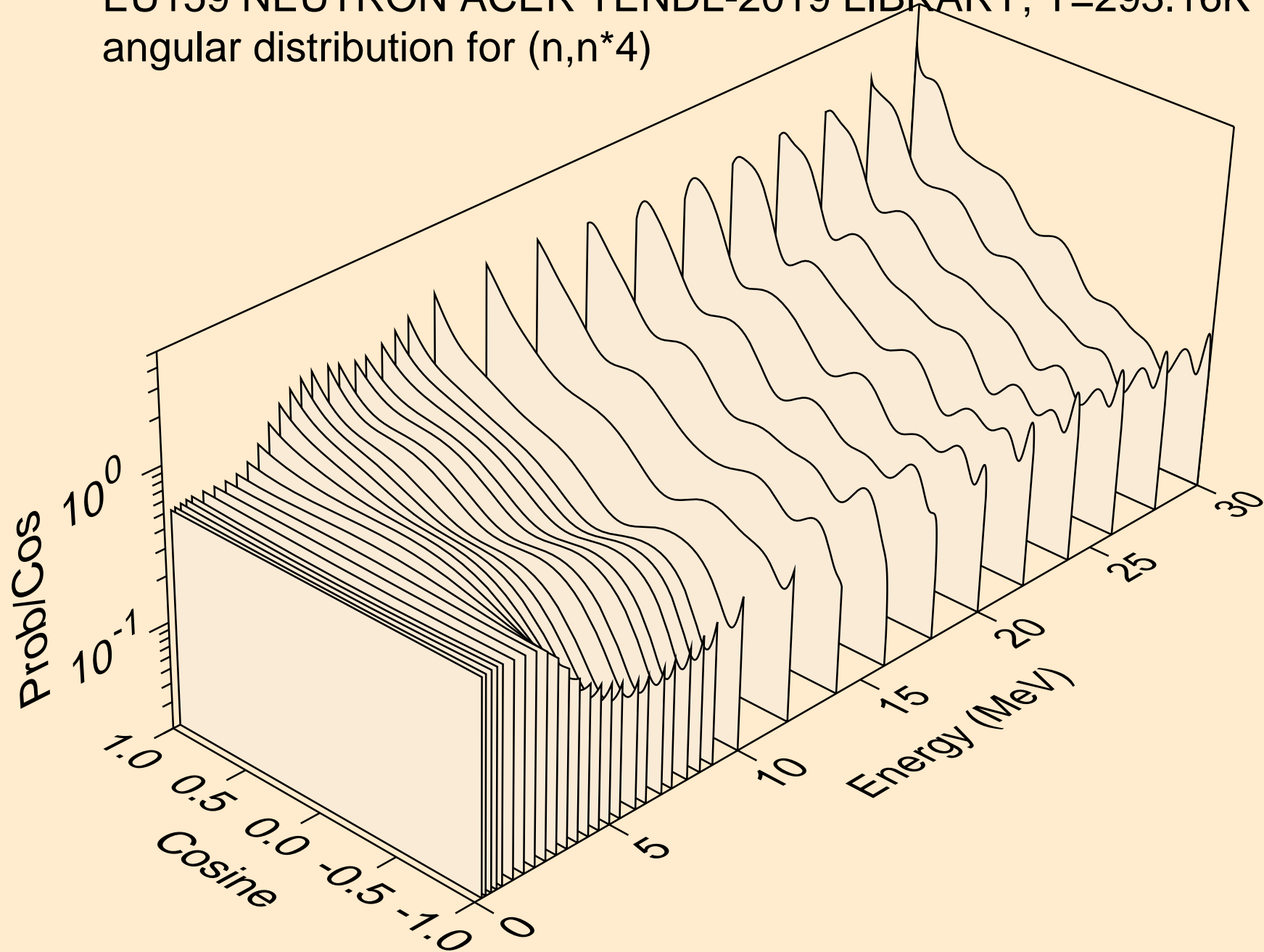




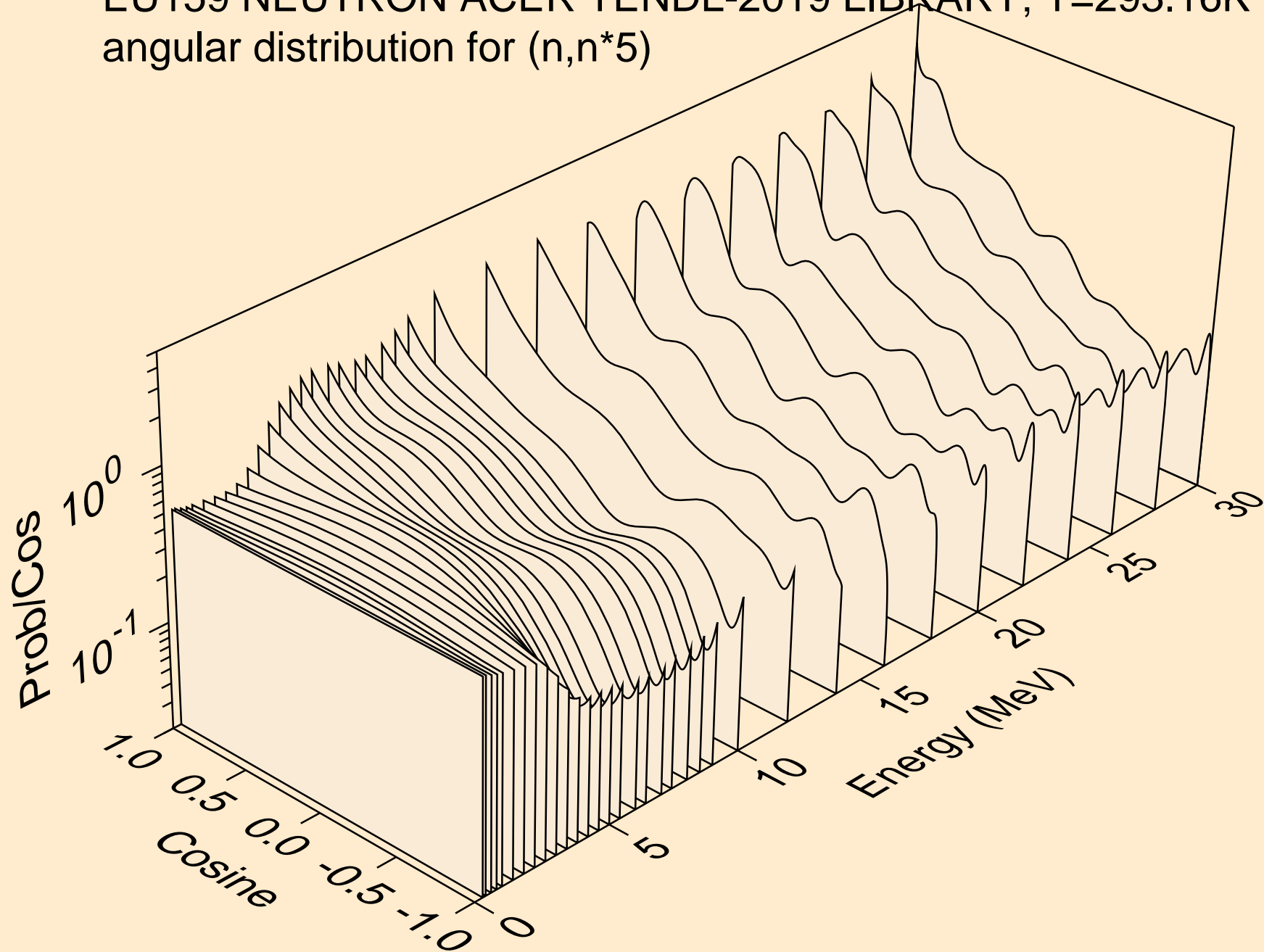
EU159 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*3)



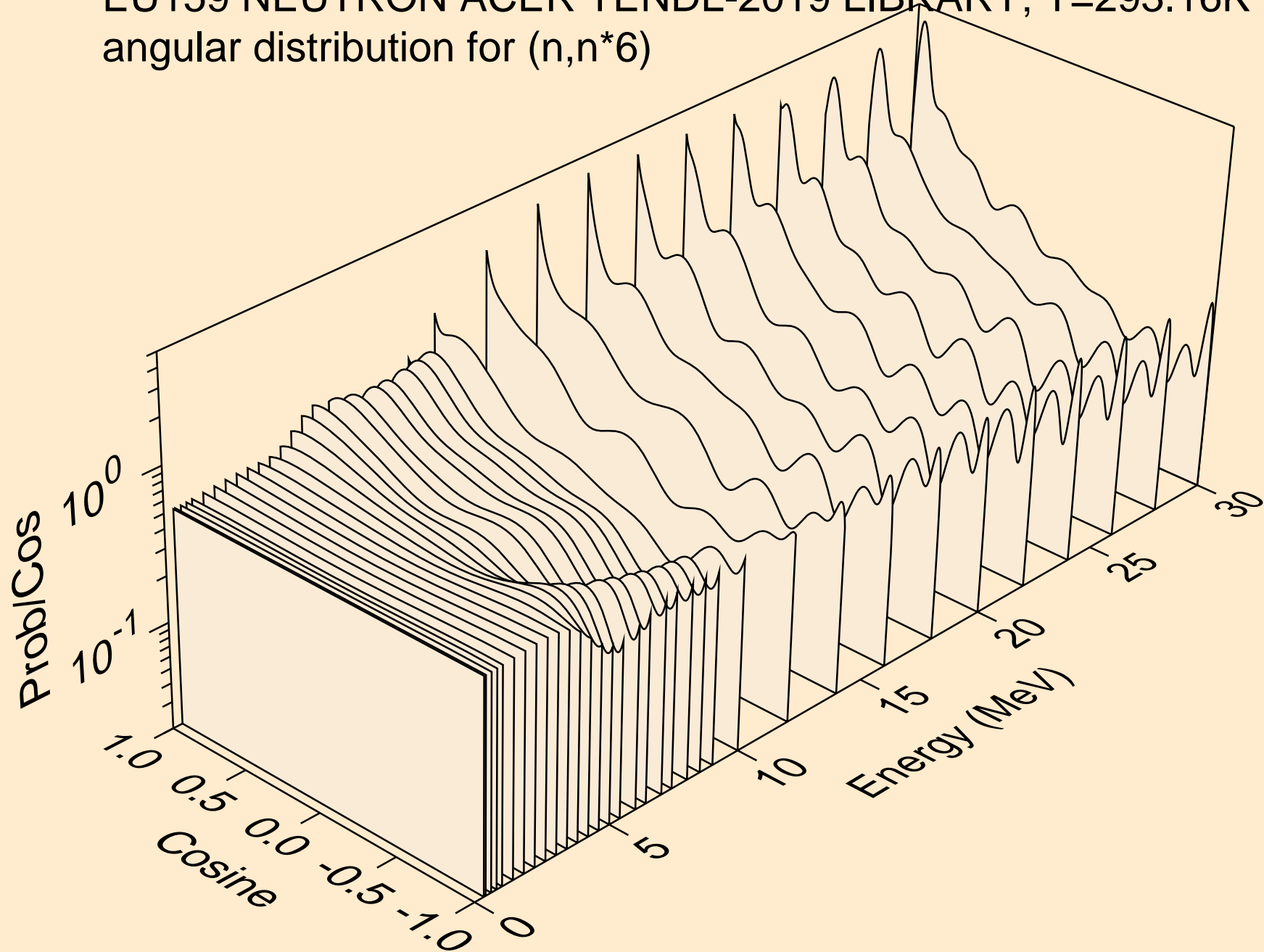
EU159 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*4)



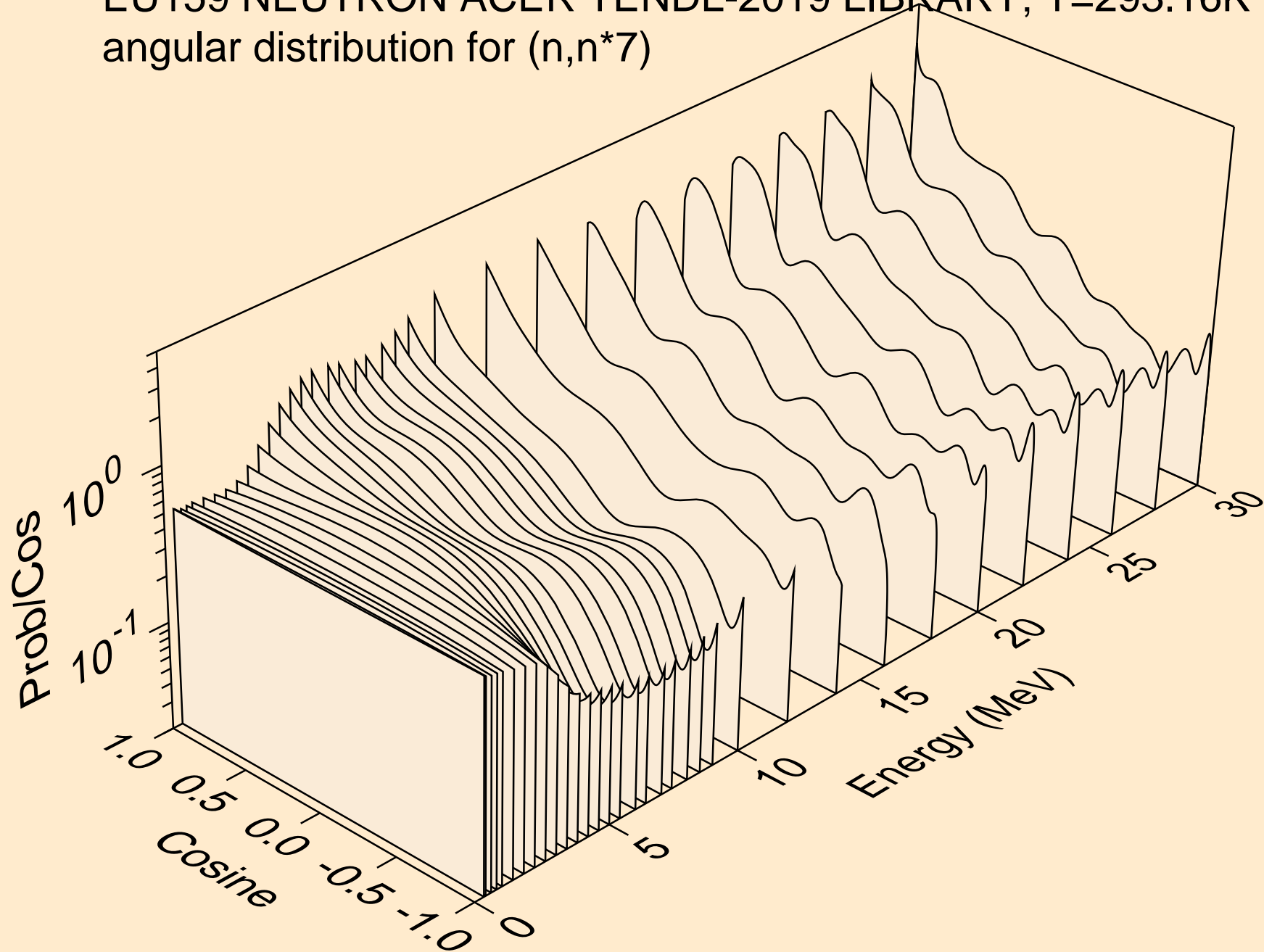
EU159 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*5)



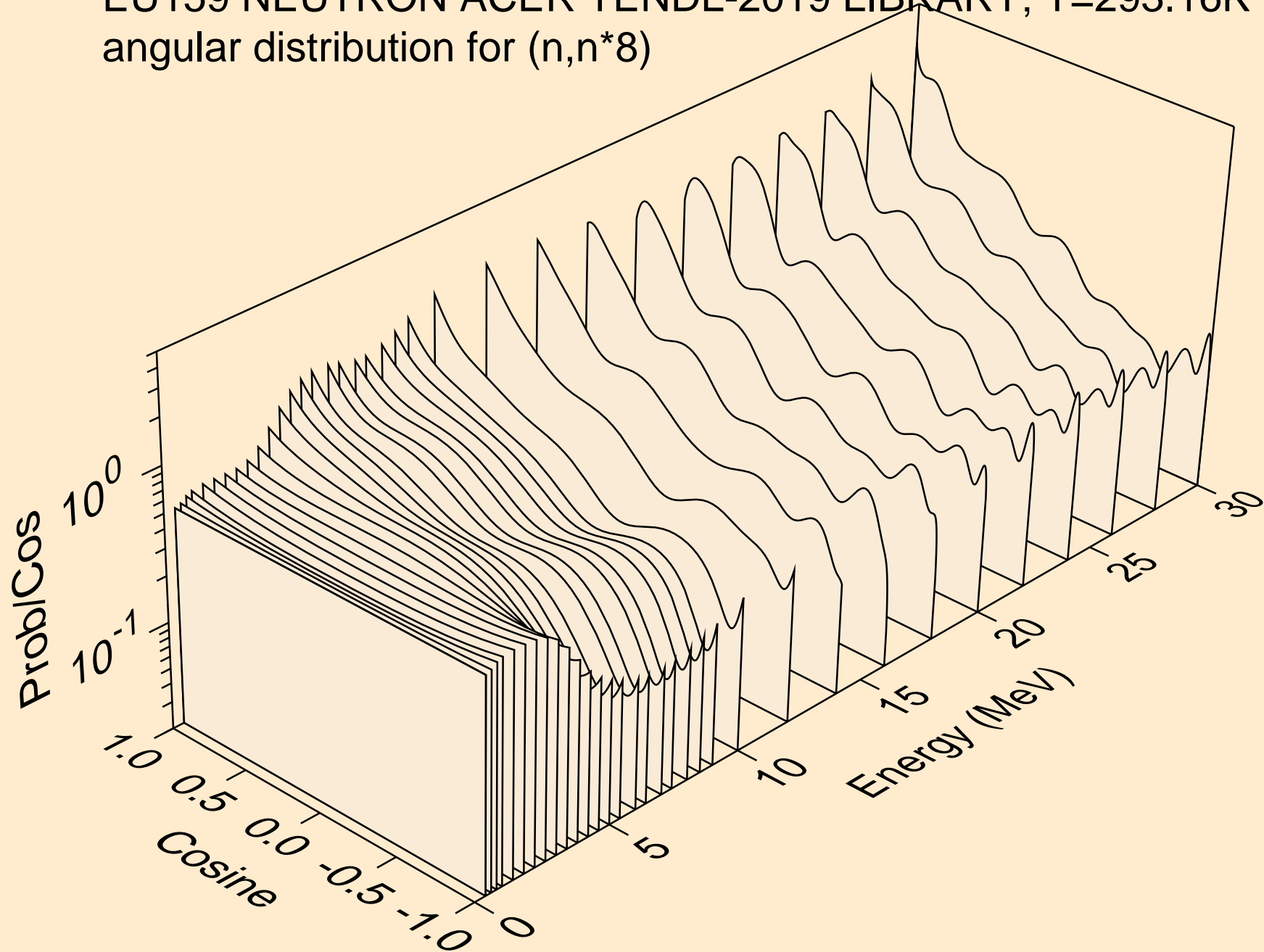
EU159 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*6)



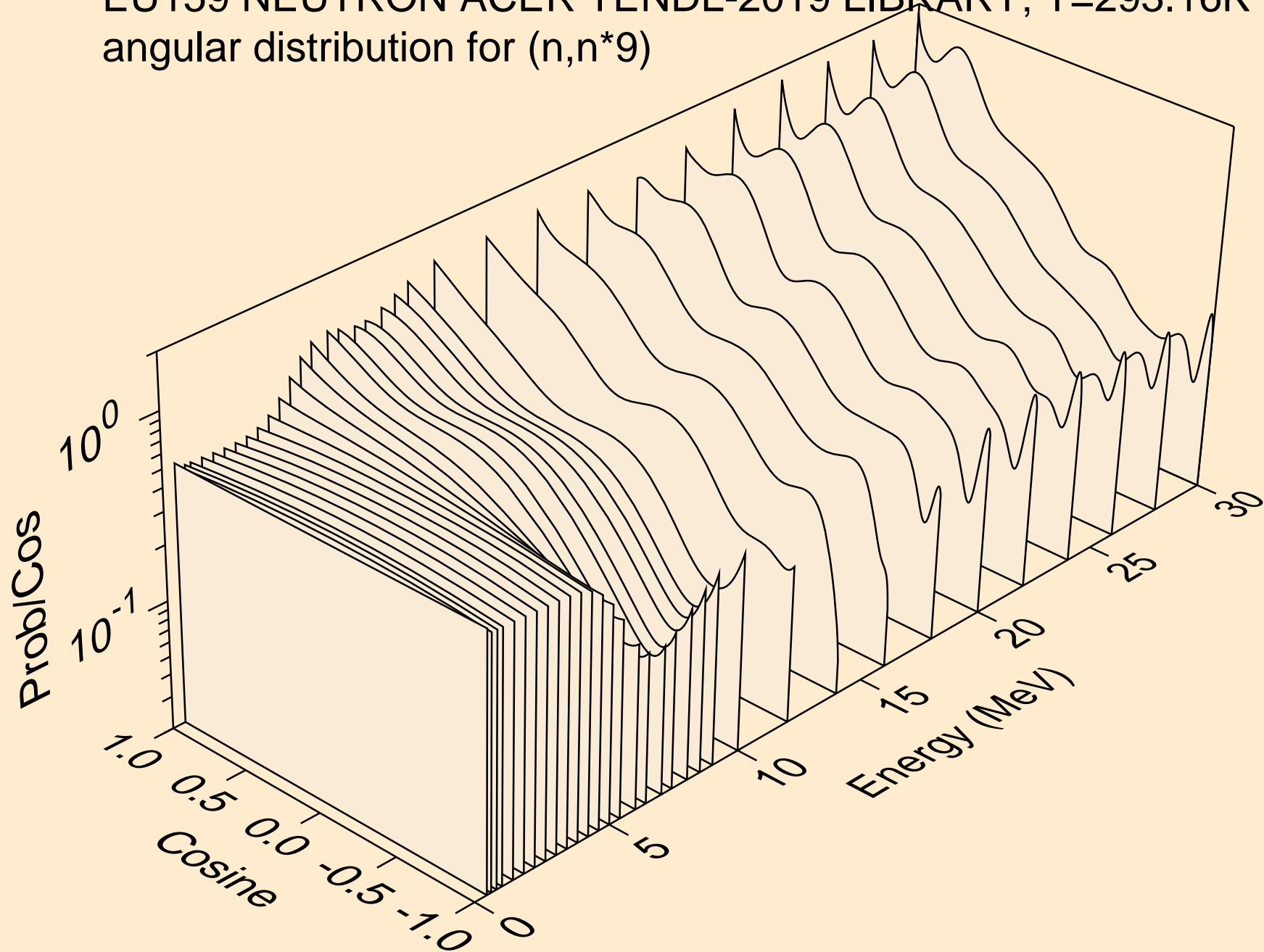
EU159 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*7)



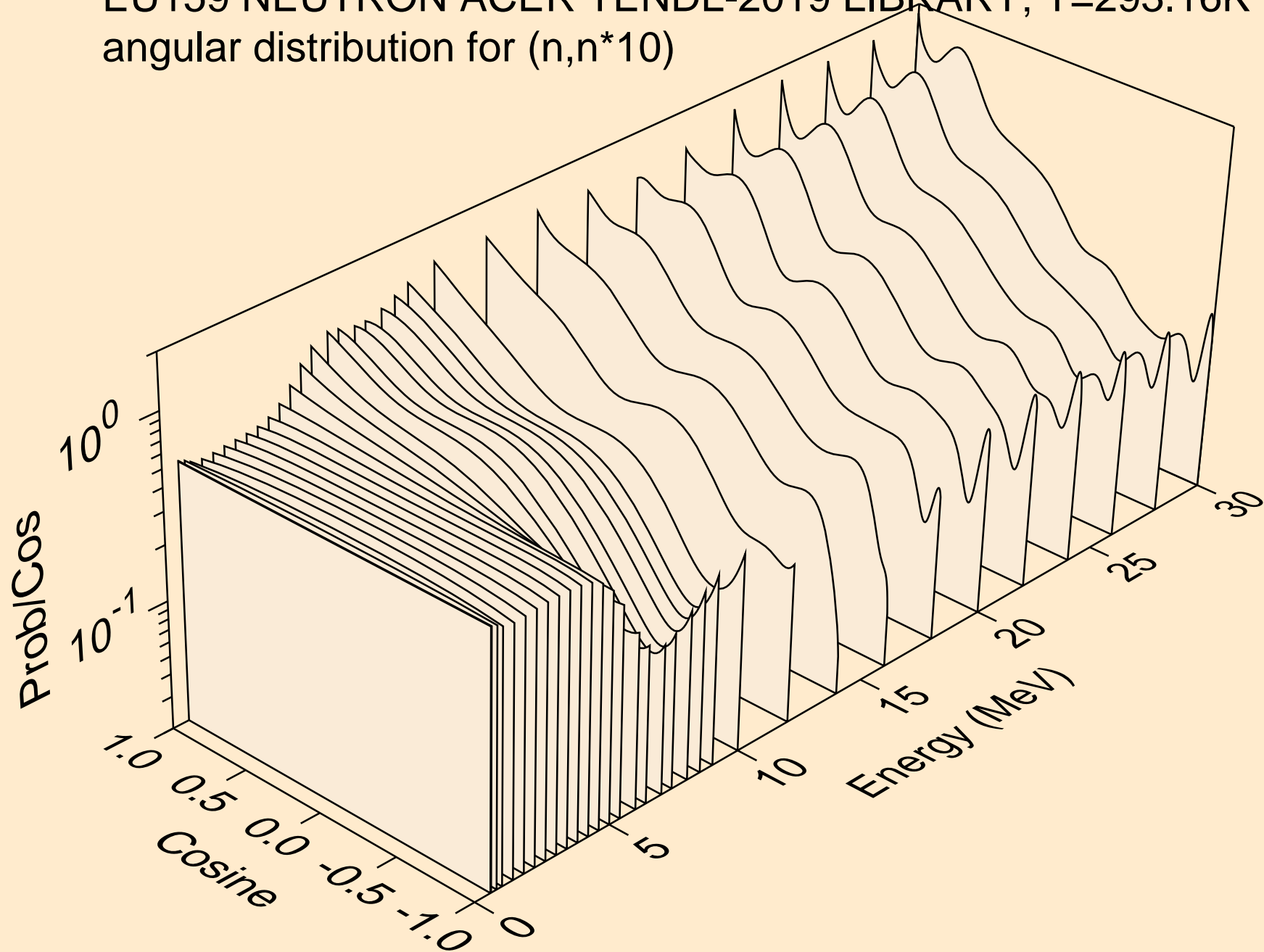
EU159 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*8)



EU159 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*9)

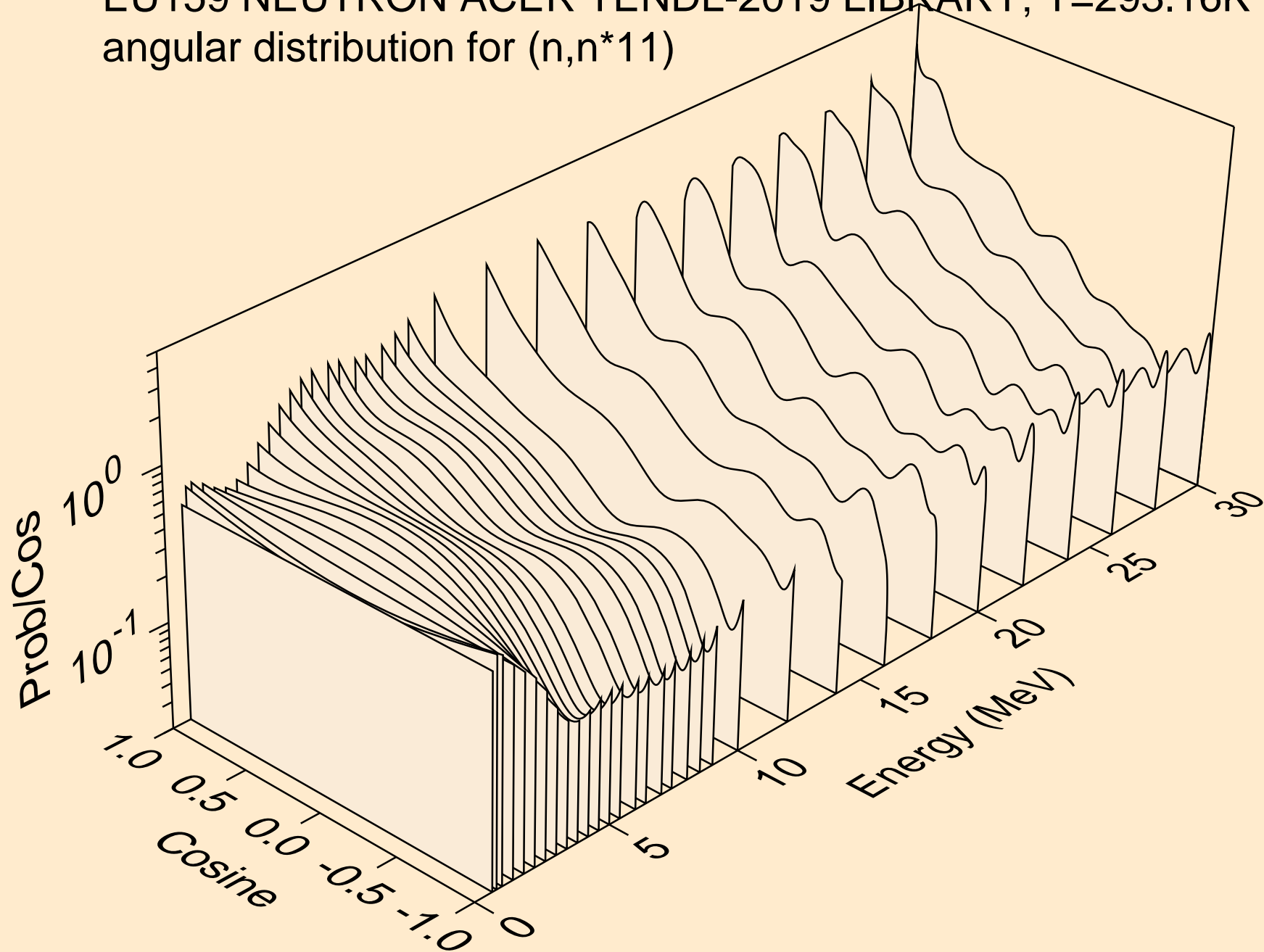


EU159 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*10)

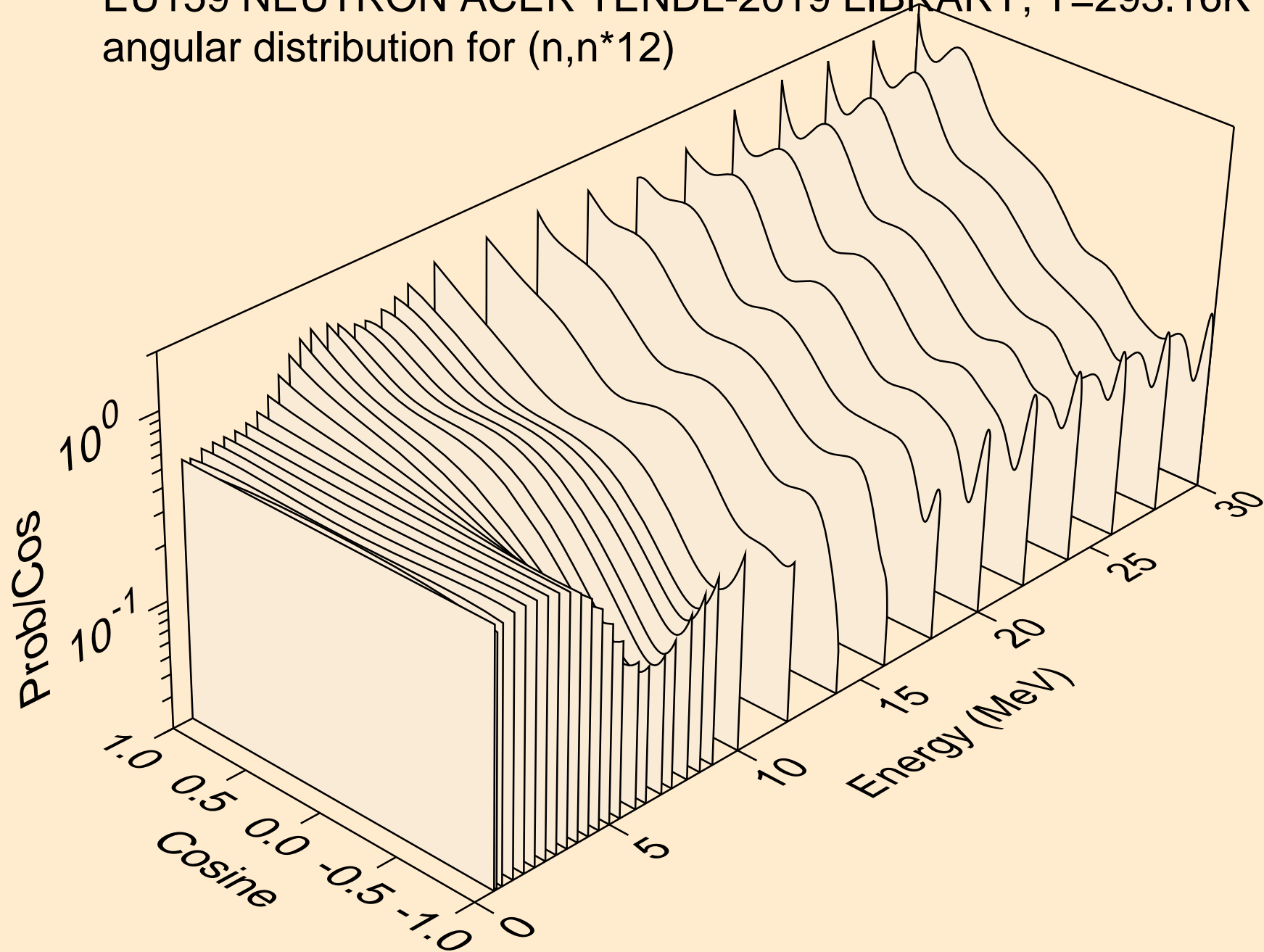




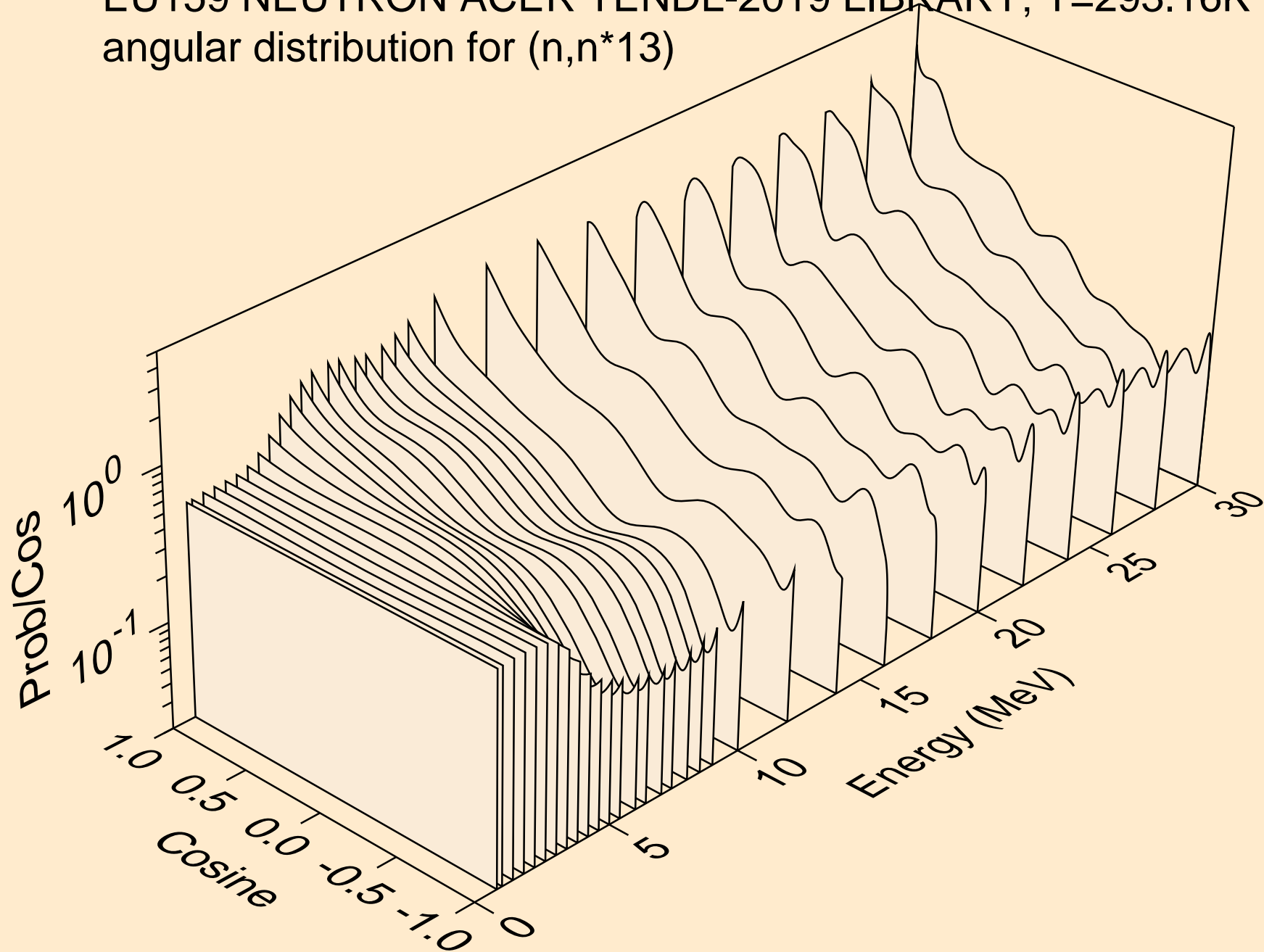
EU159 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*11)



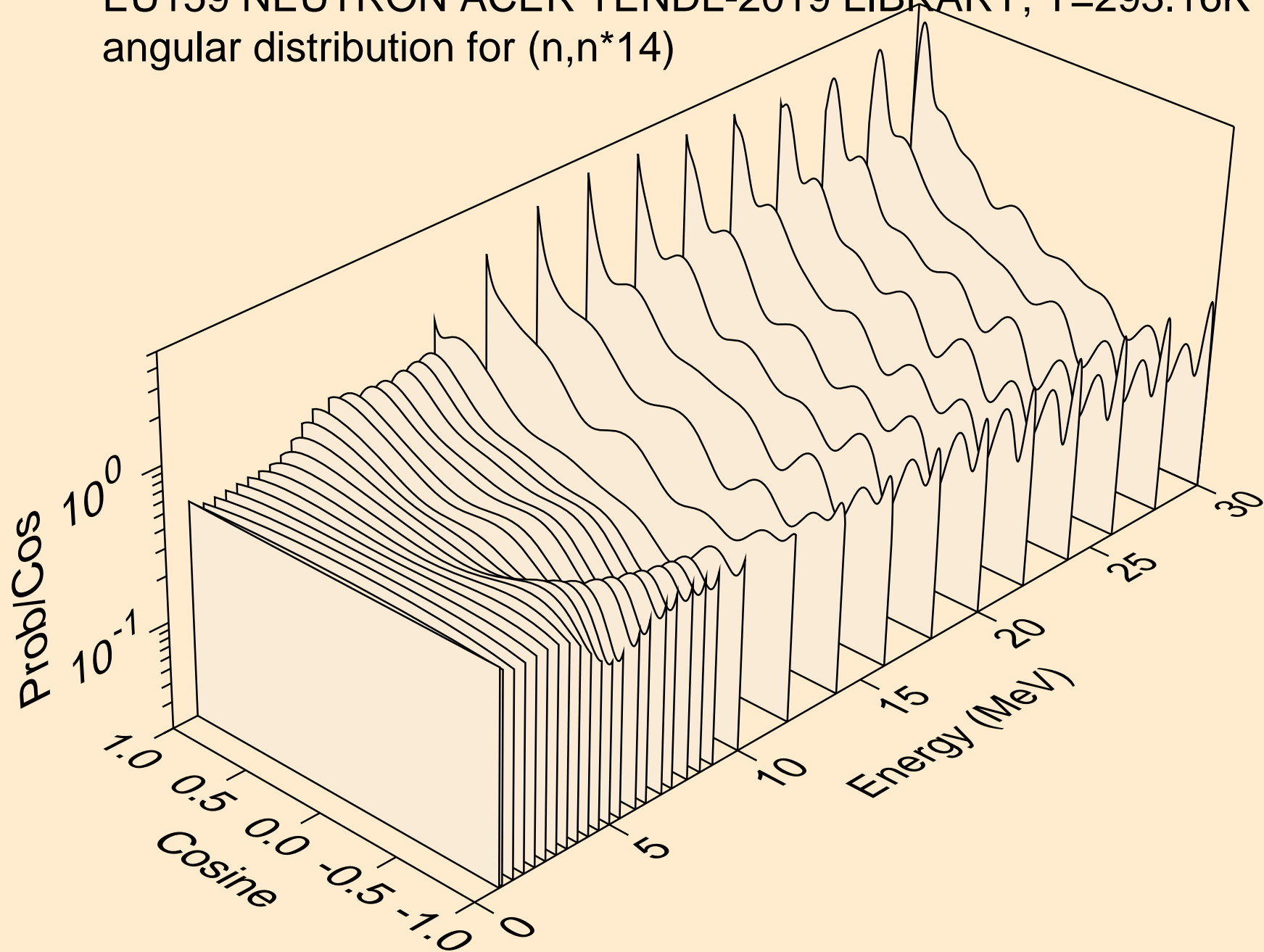
EU159 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*12)



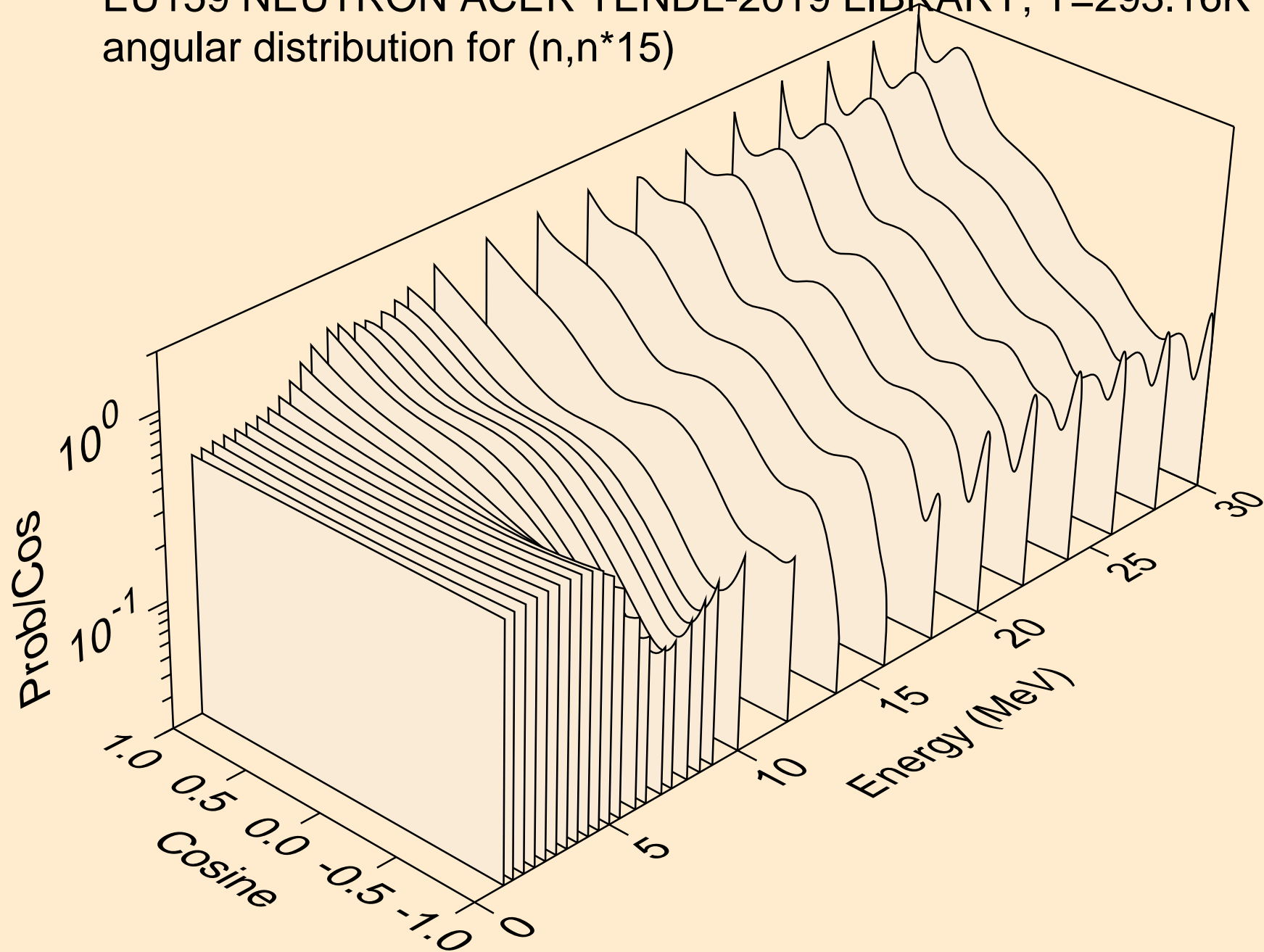
EU159 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*13)



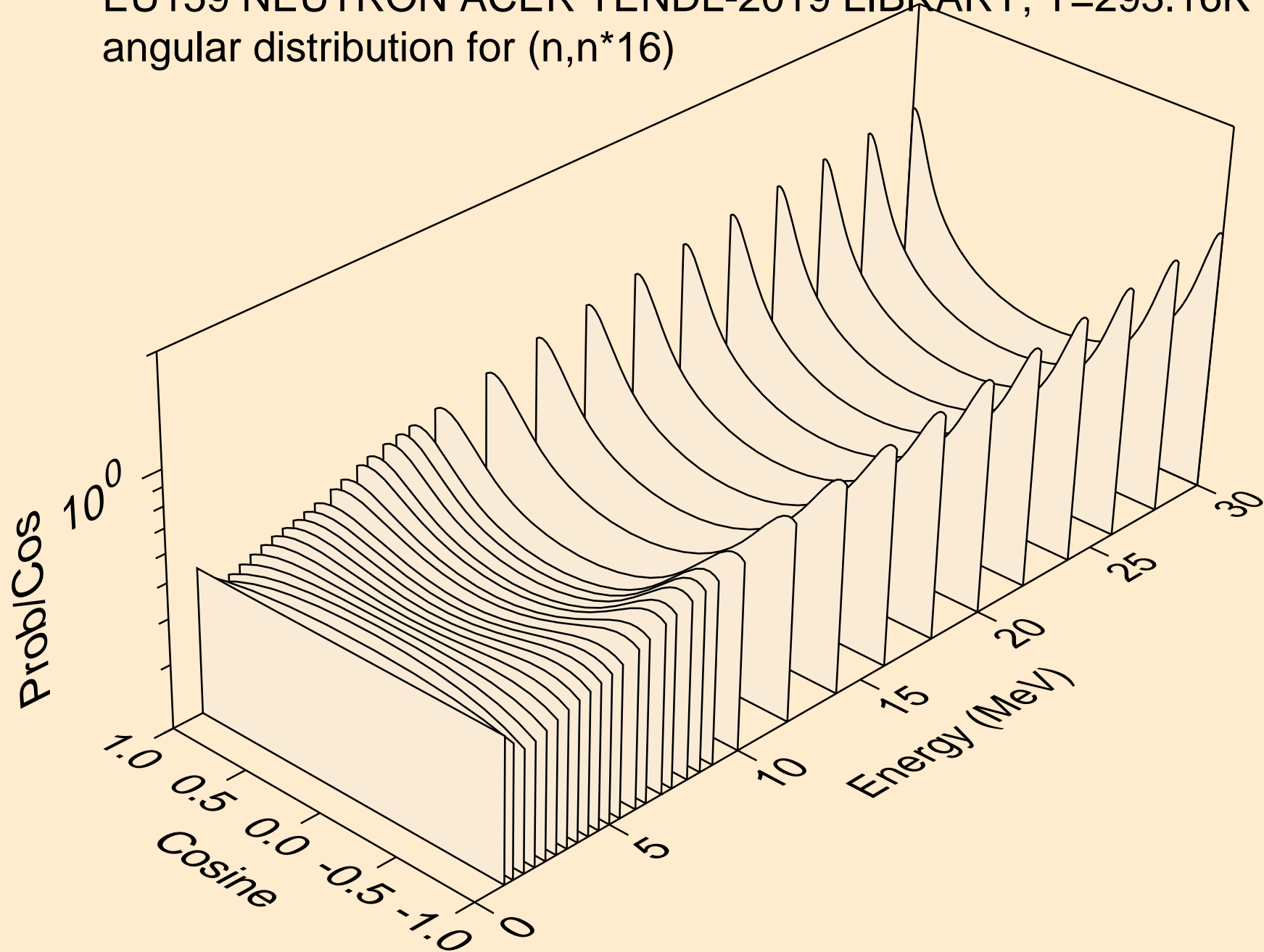
EU159 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*14)



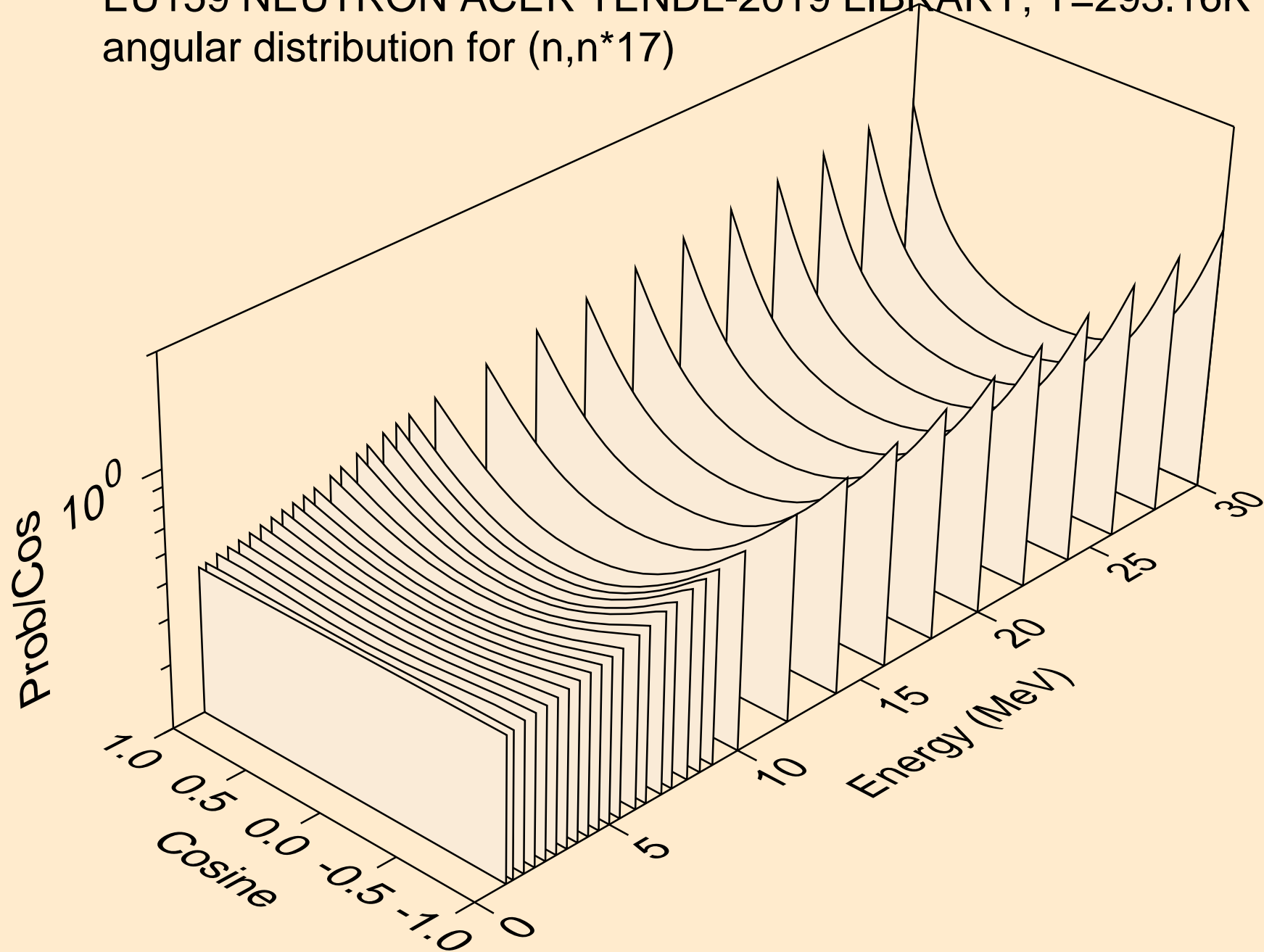
EU159 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*15)



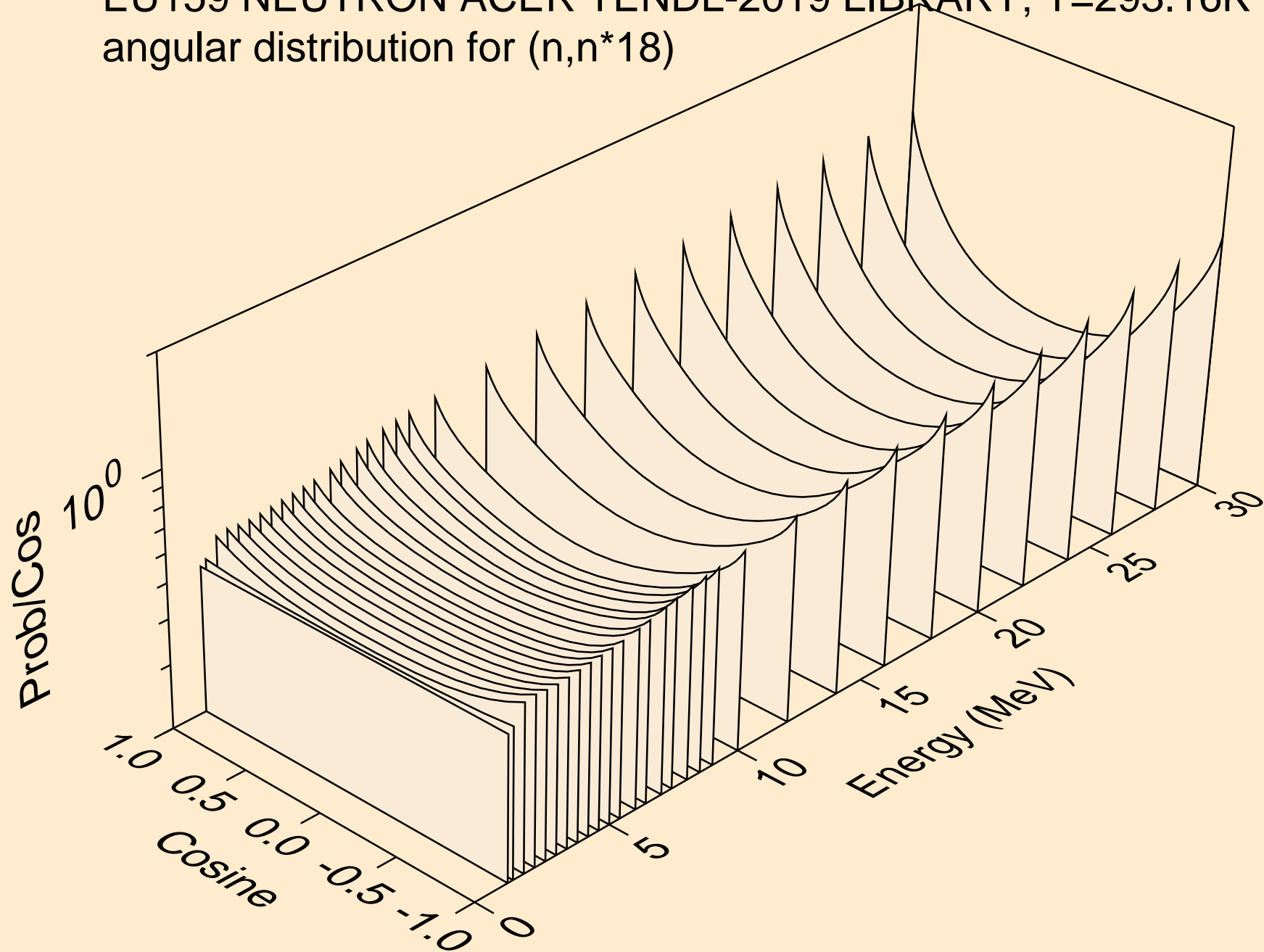
EU159 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*16)



EU159 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*17)

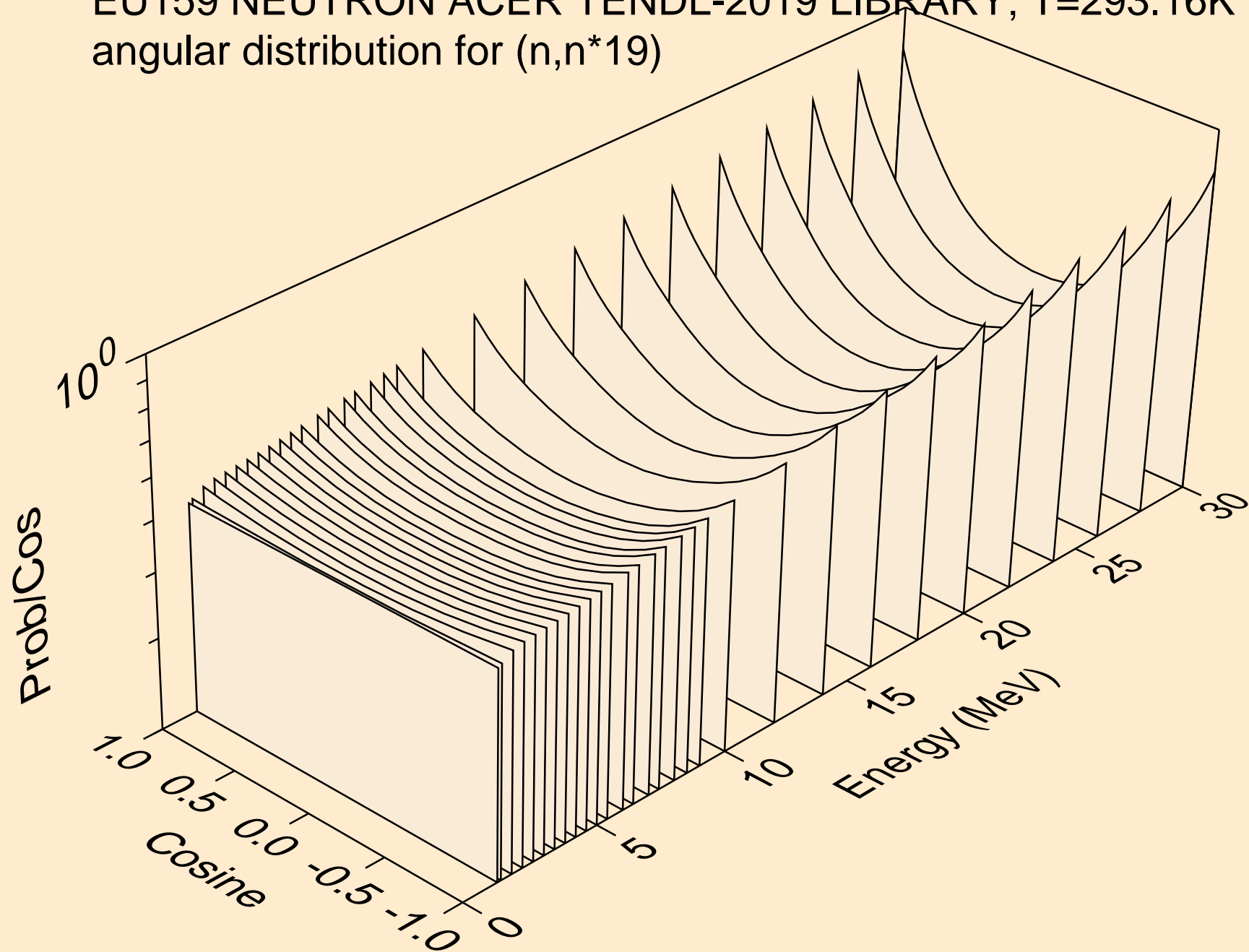


EU159 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*18)

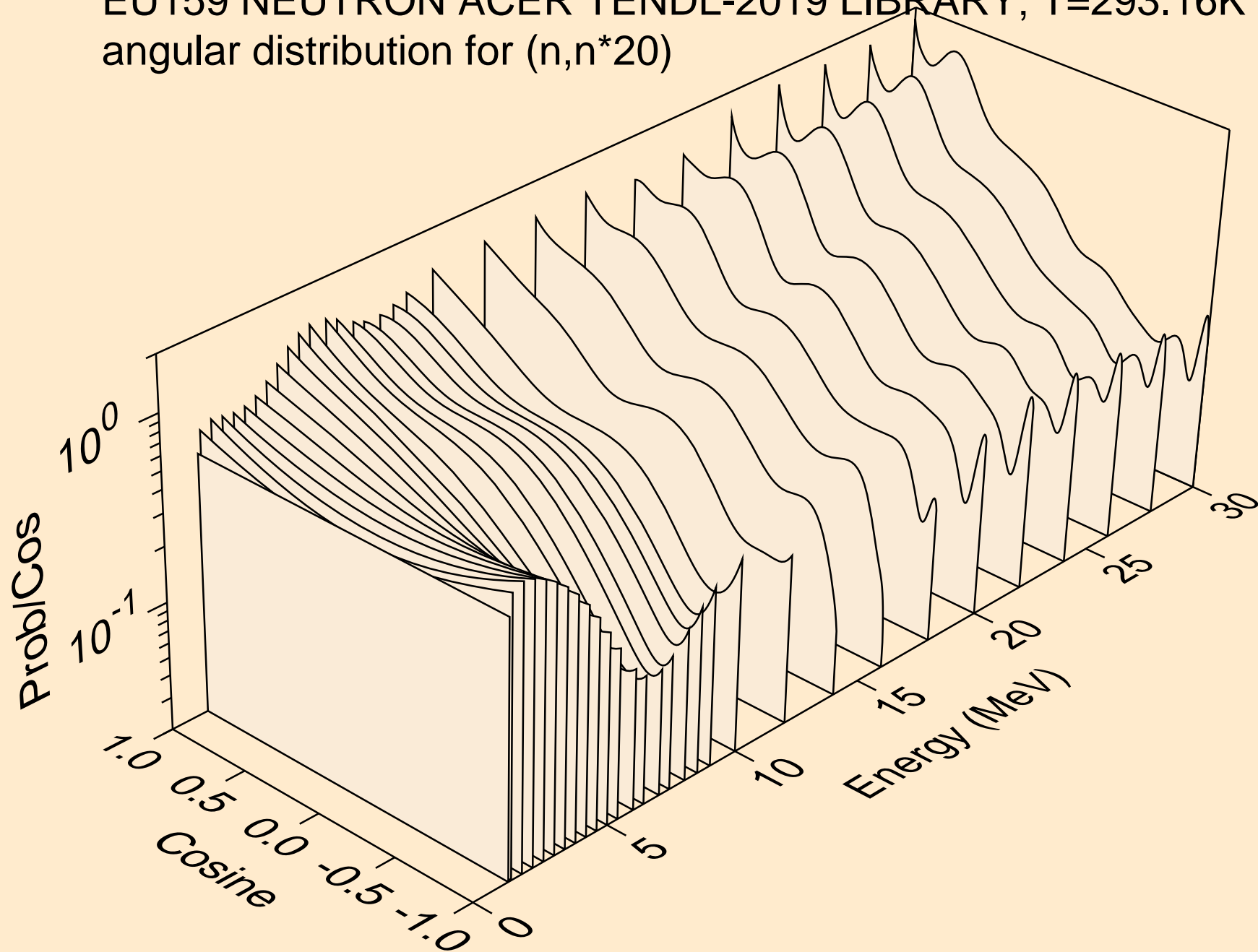




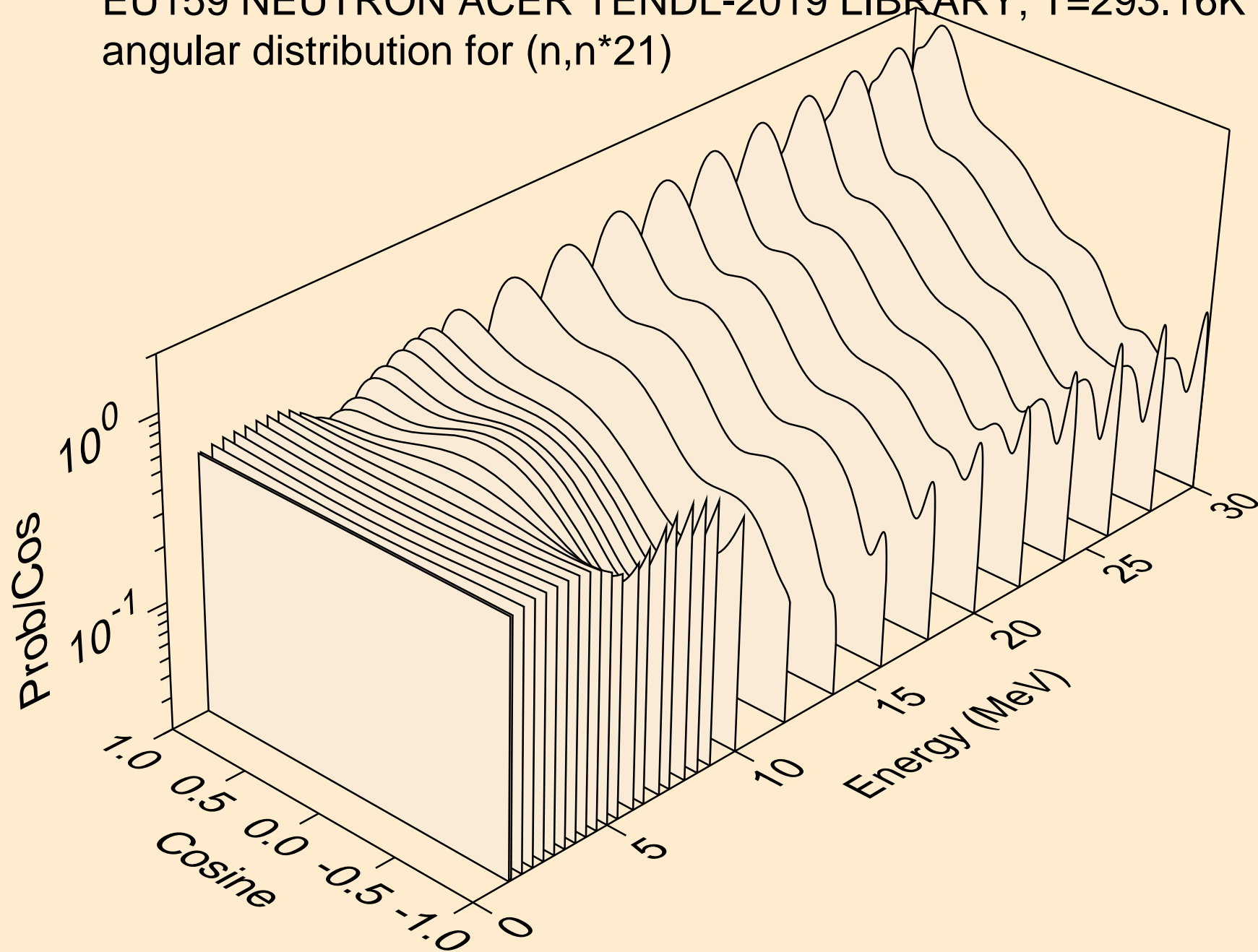
EU159 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*19)



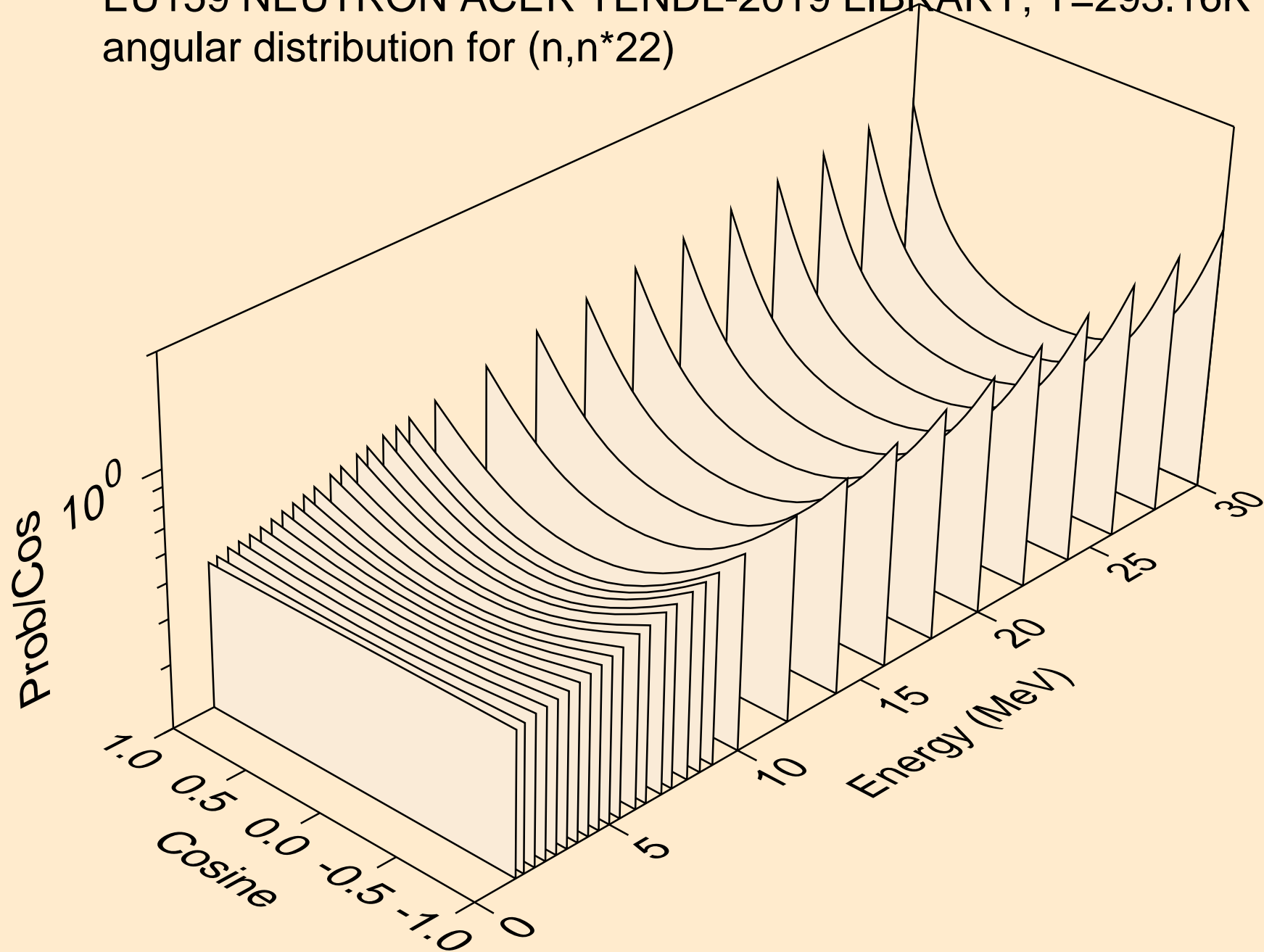
EU159 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*20)



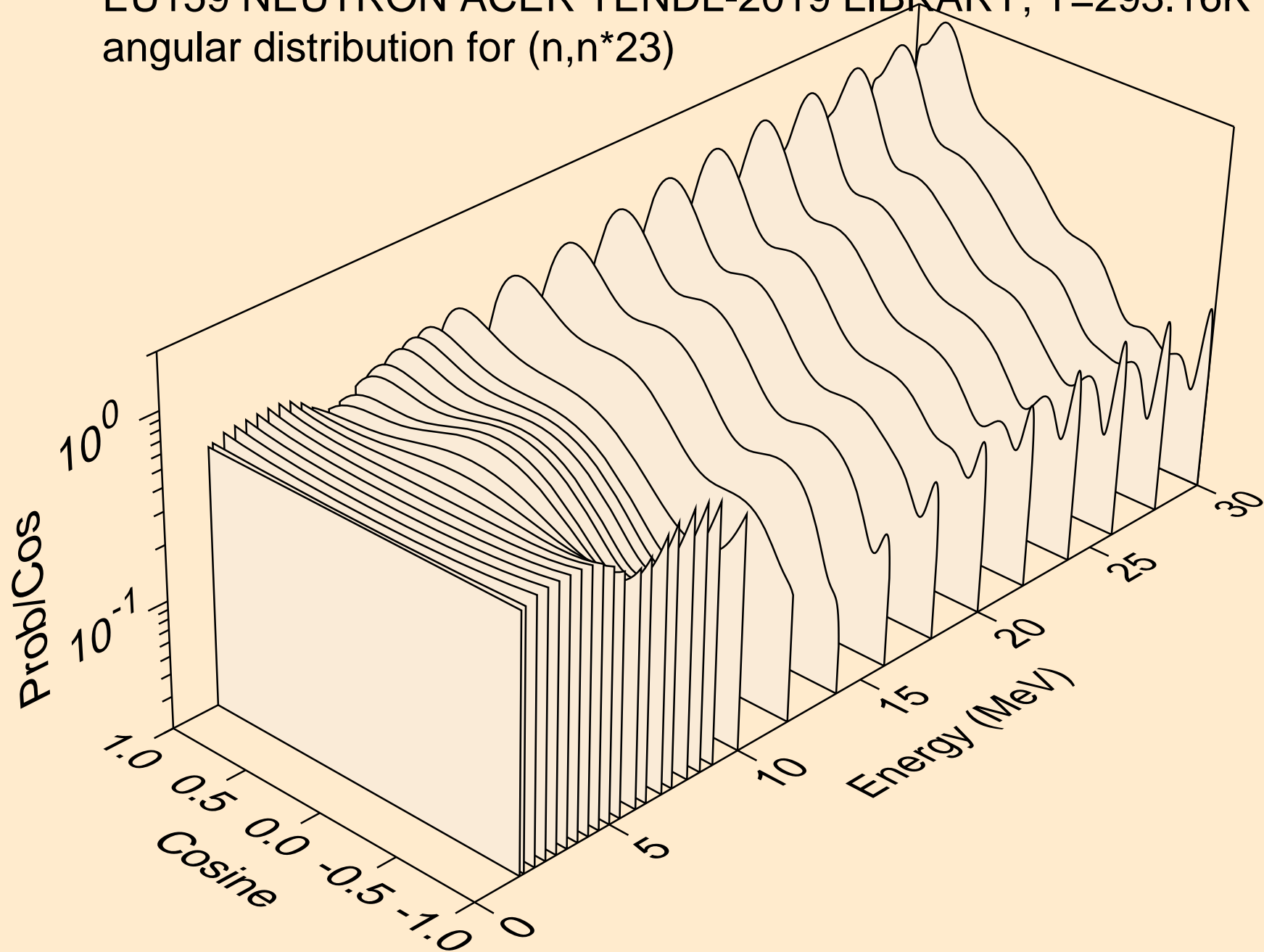
EU159 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*21)



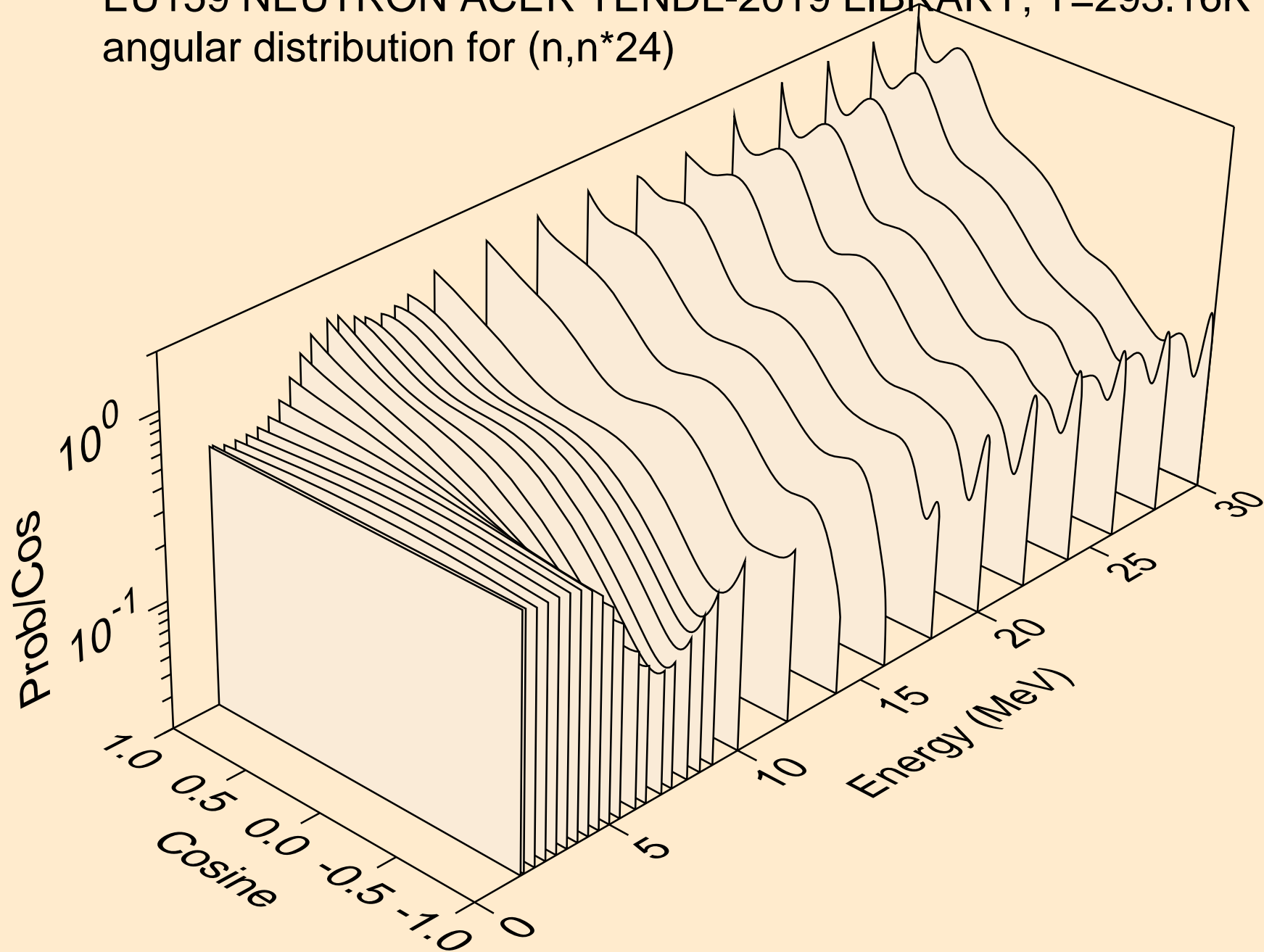
EU159 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*22)



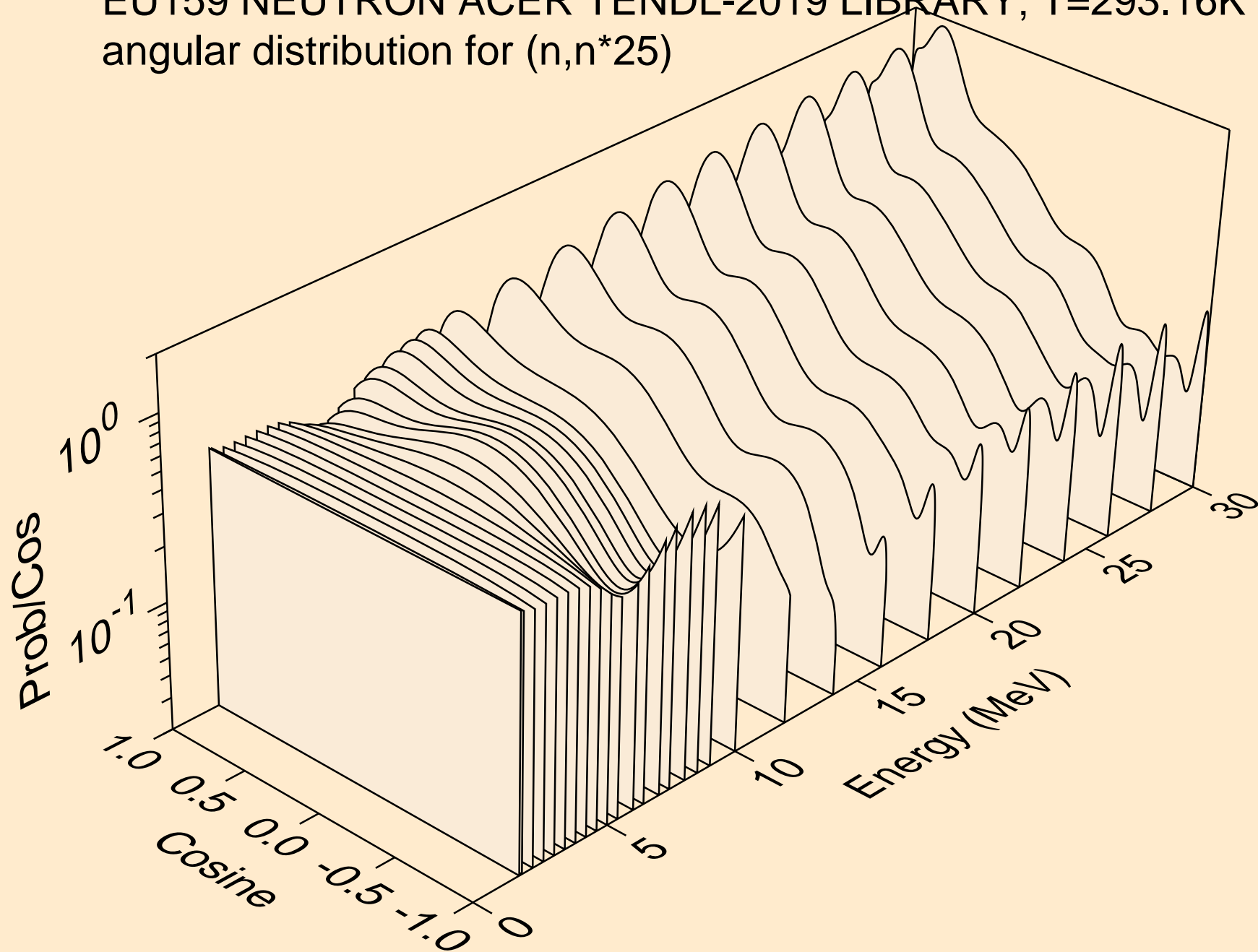
EU159 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*23)



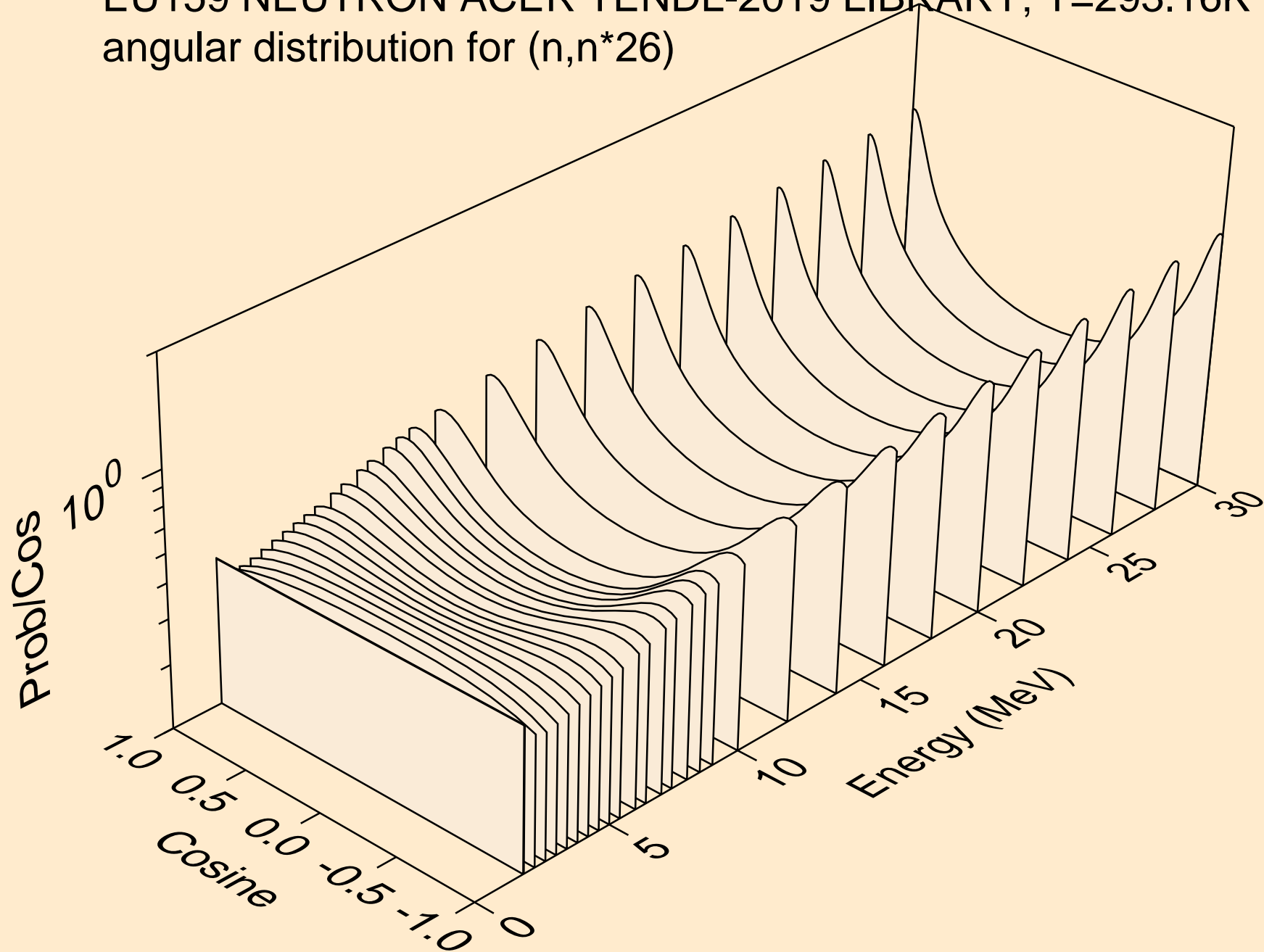
EU159 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*24)



EU159 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*25)

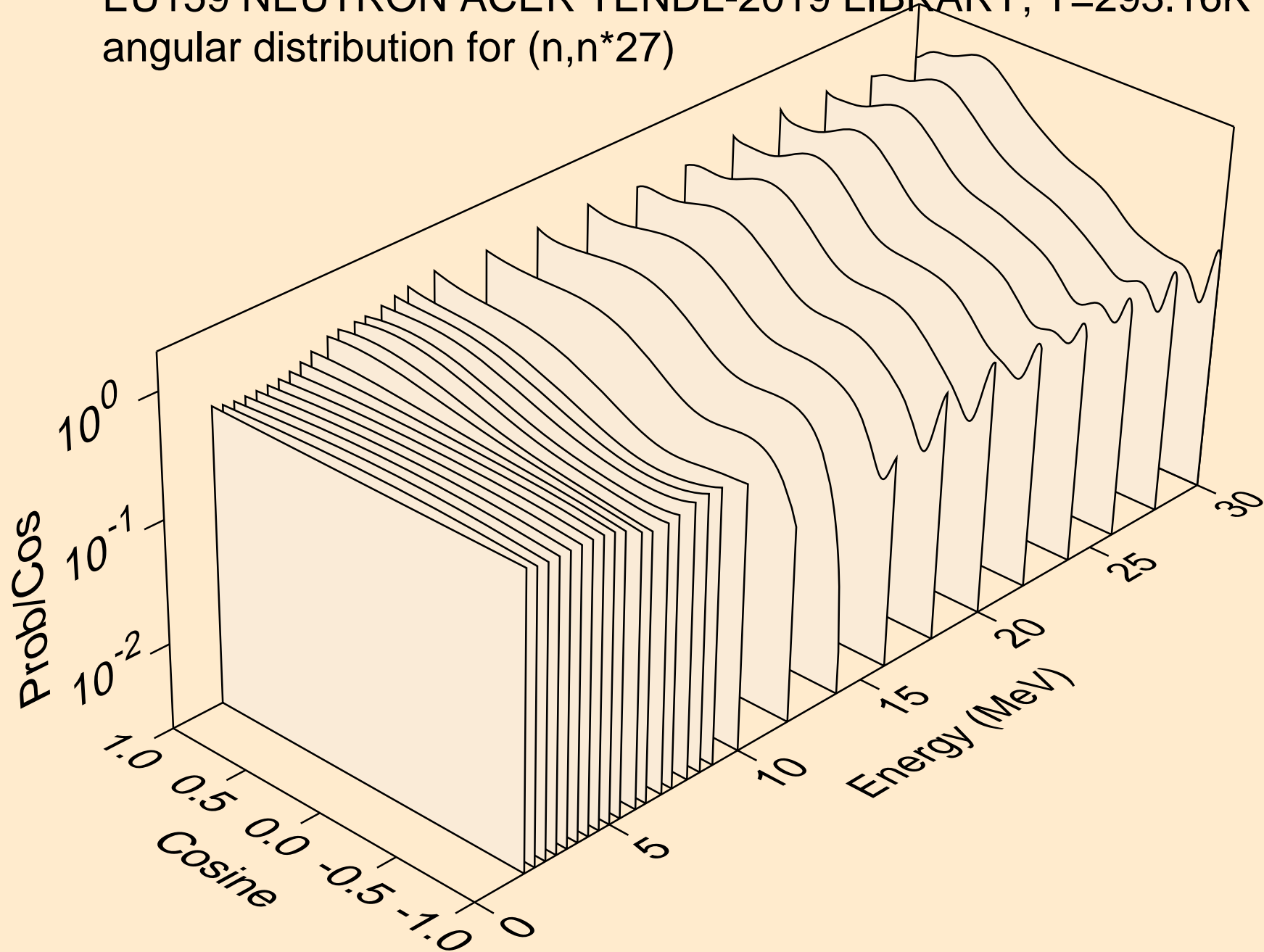


EU159 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*26)

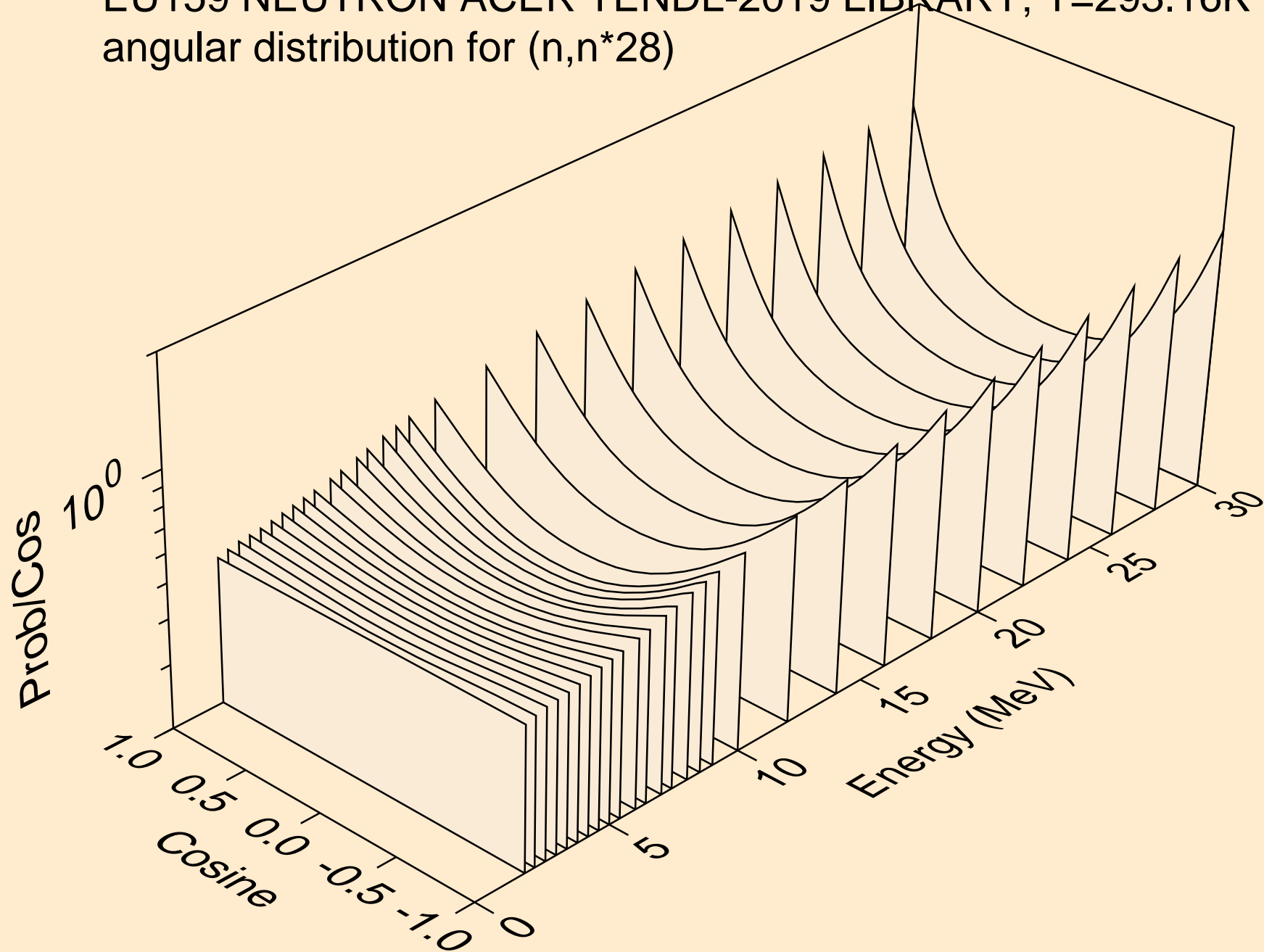




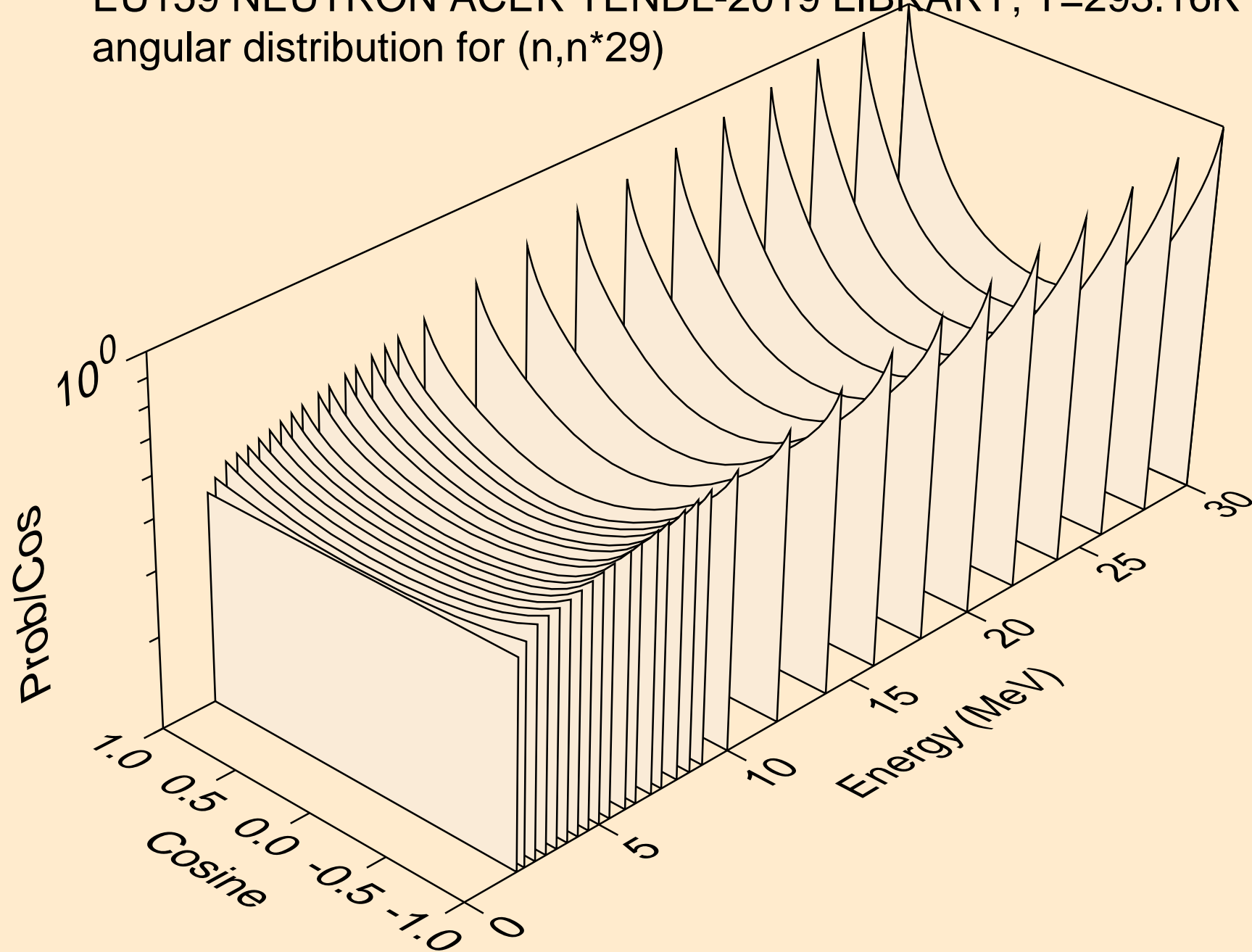
EU159 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*27)



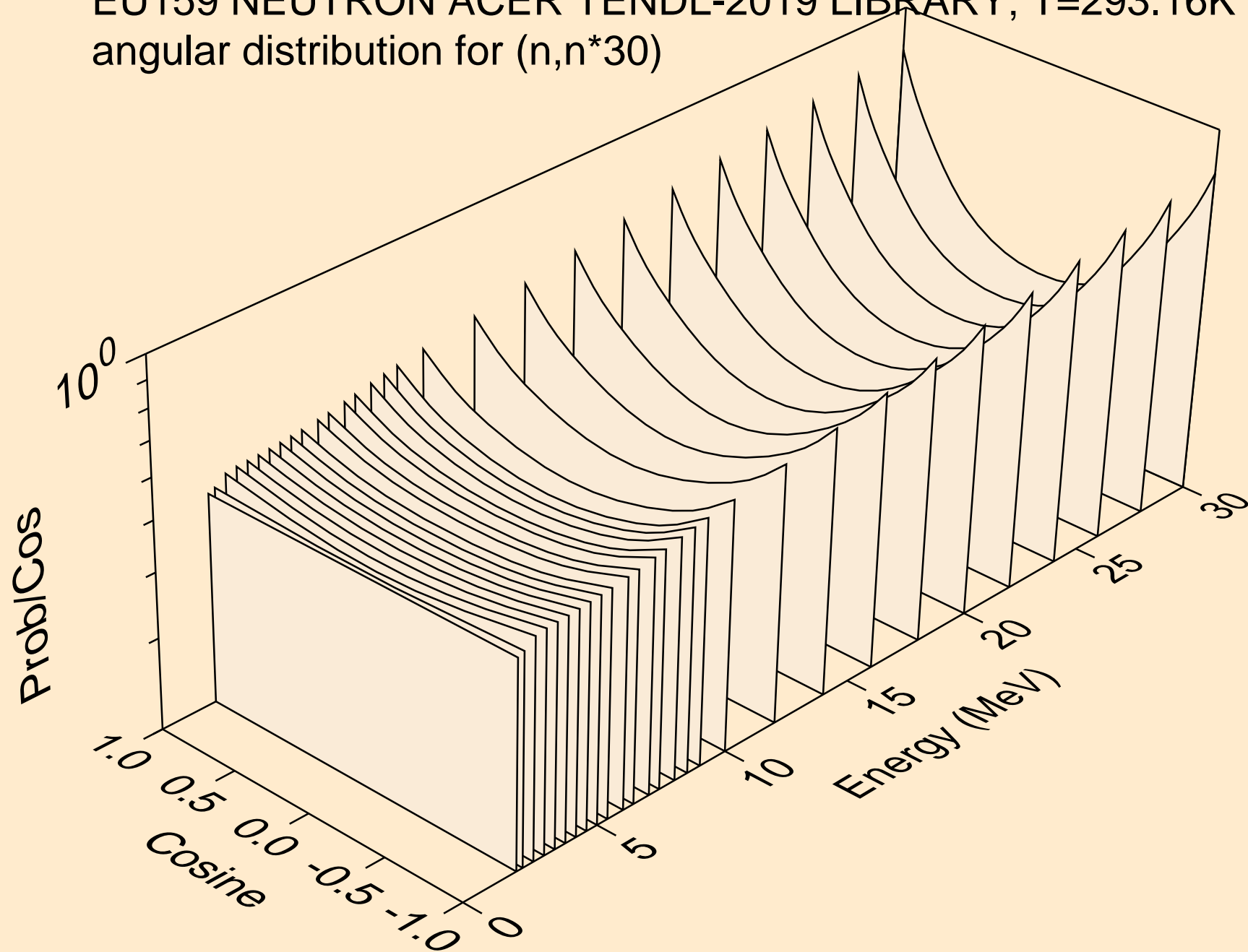
EU159 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*28)



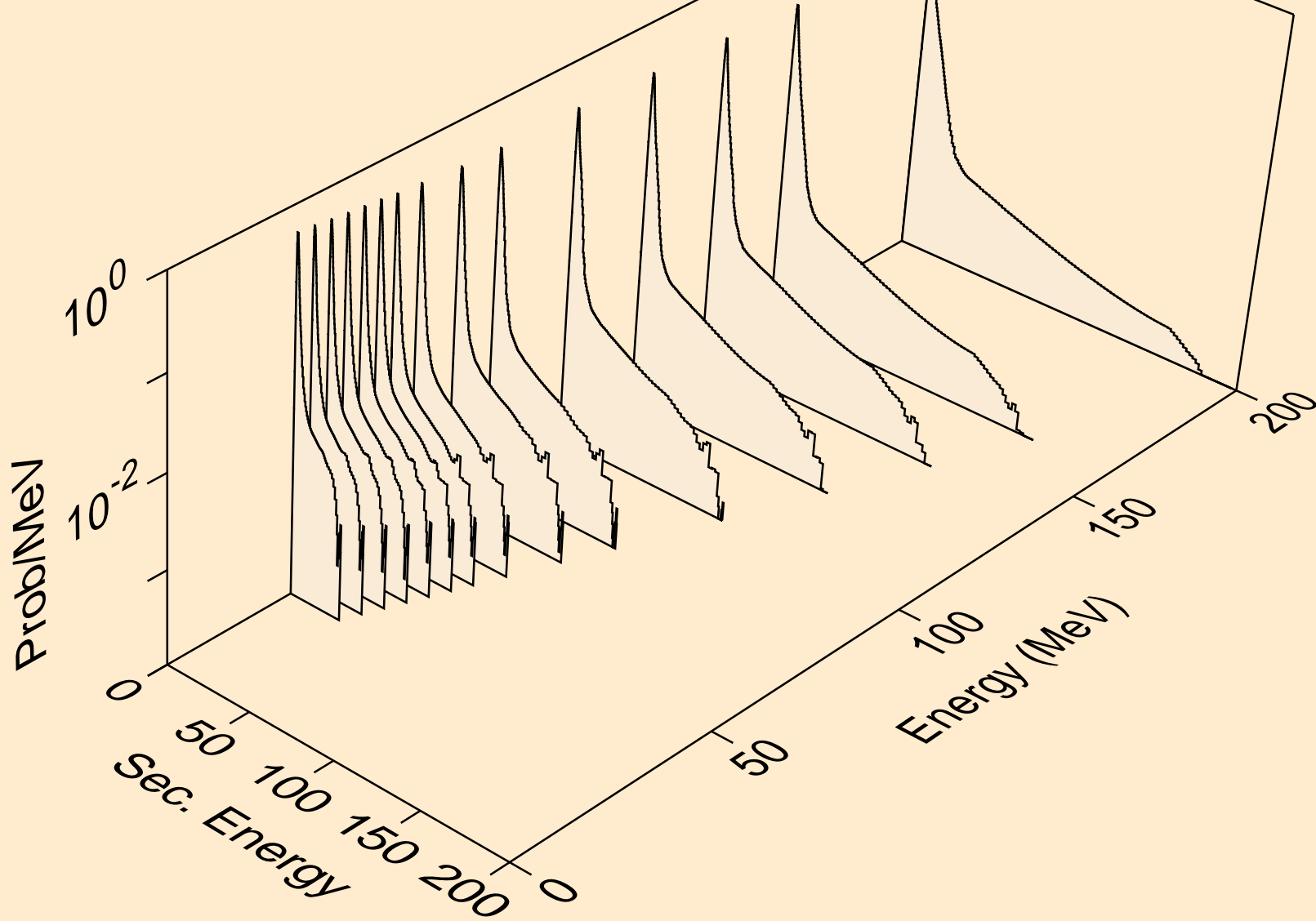
EU159 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*29)



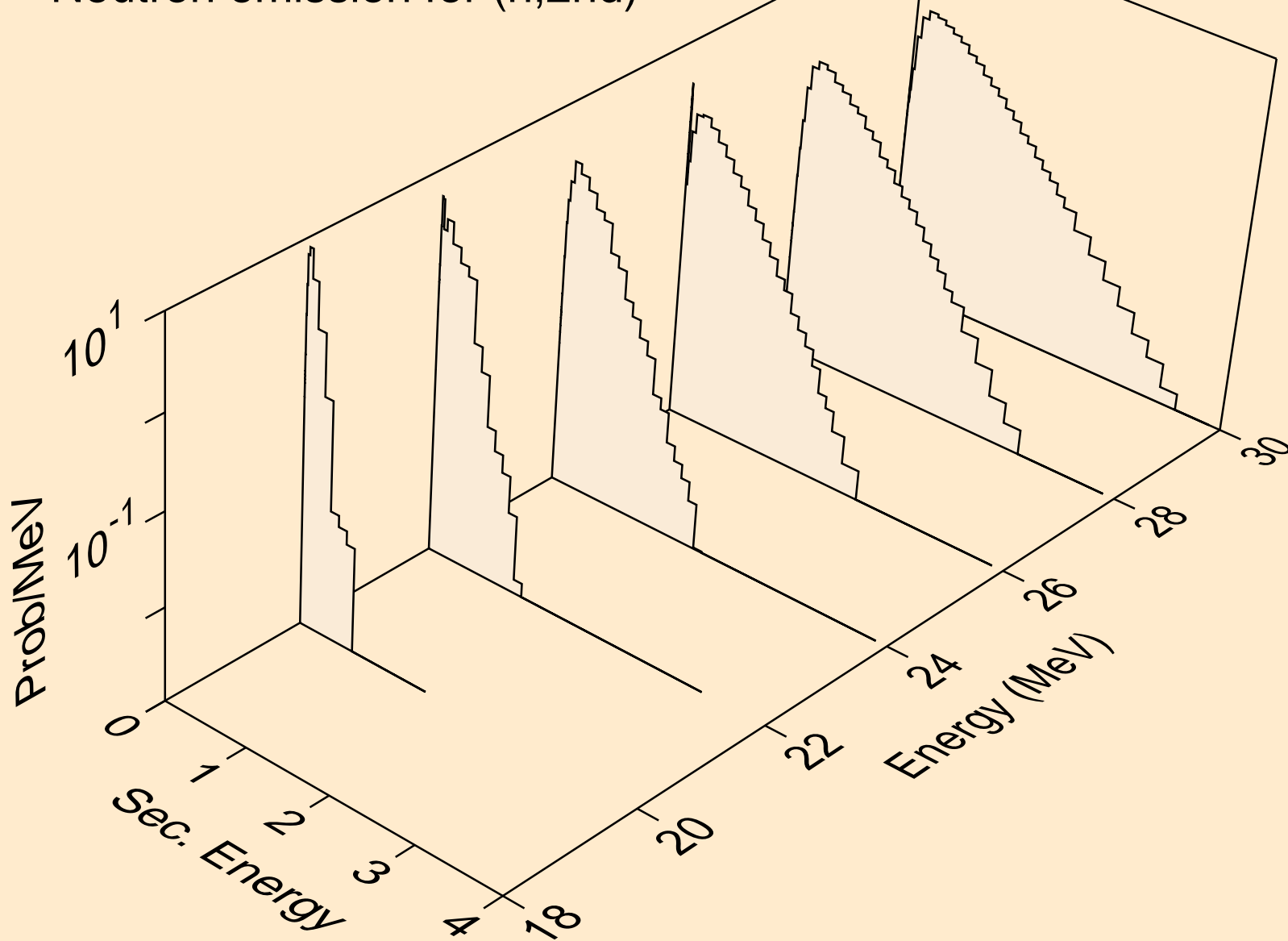
EU159 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*30)



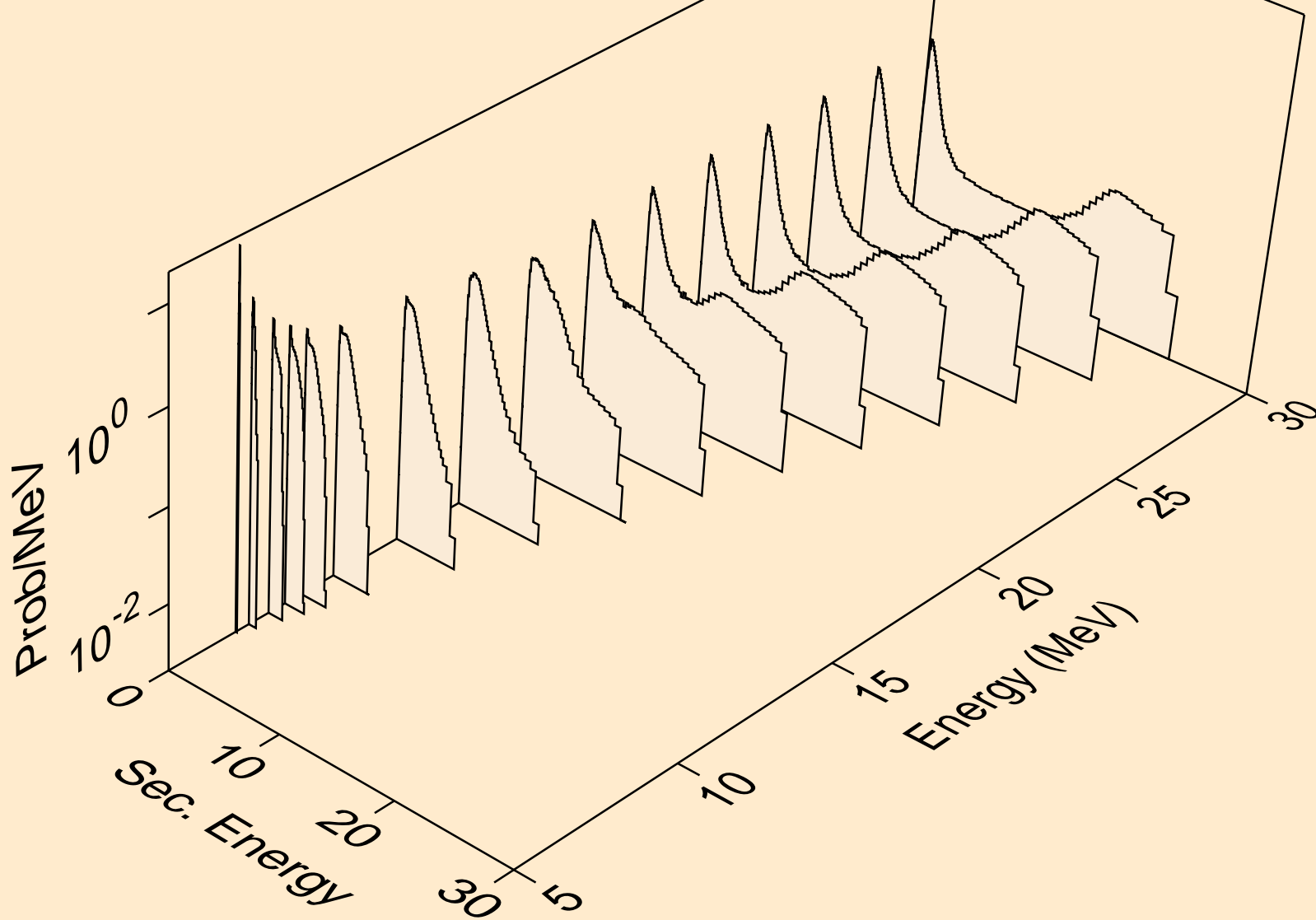
EU159 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,x)



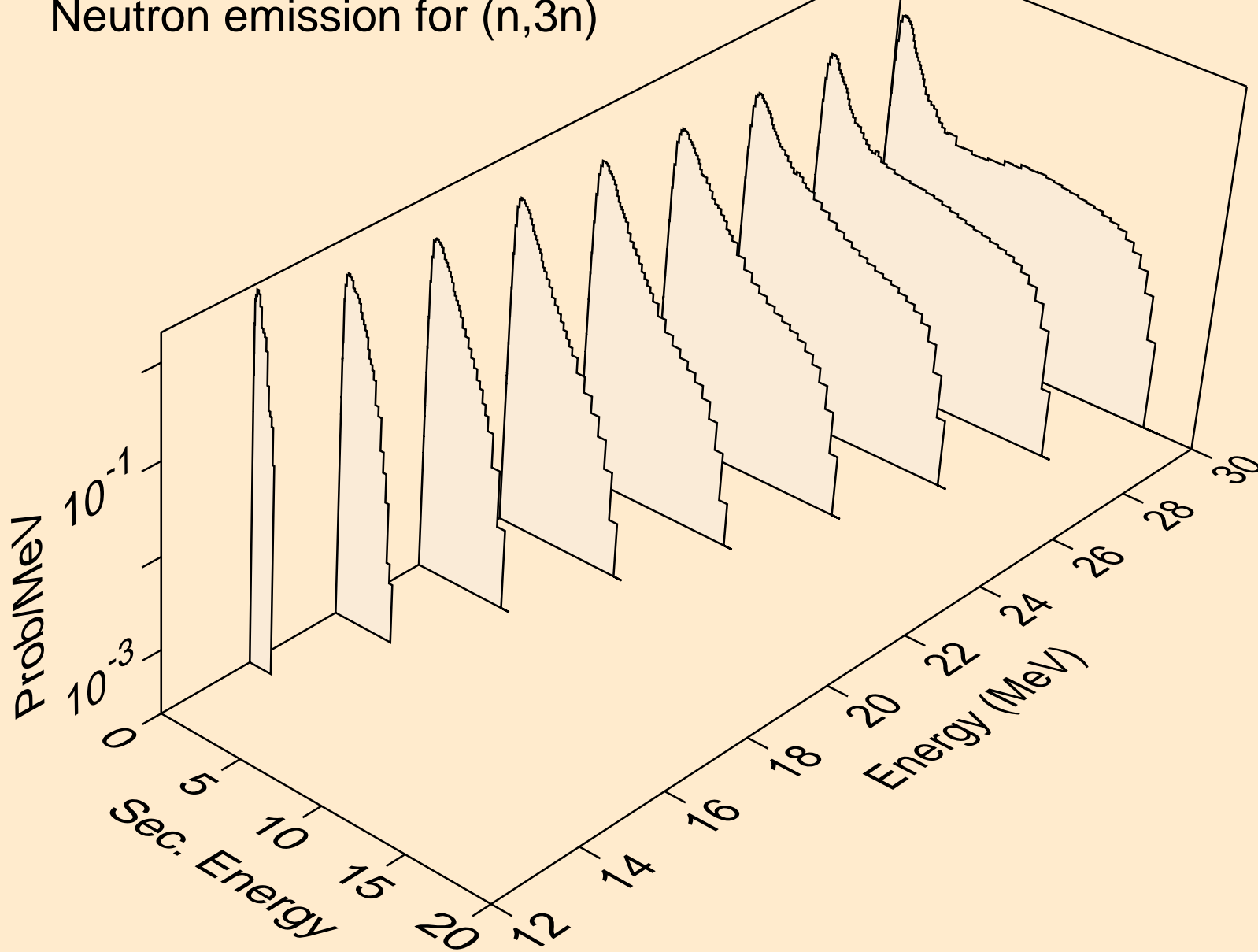
EU159 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,2nd)



EU159 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,2n)

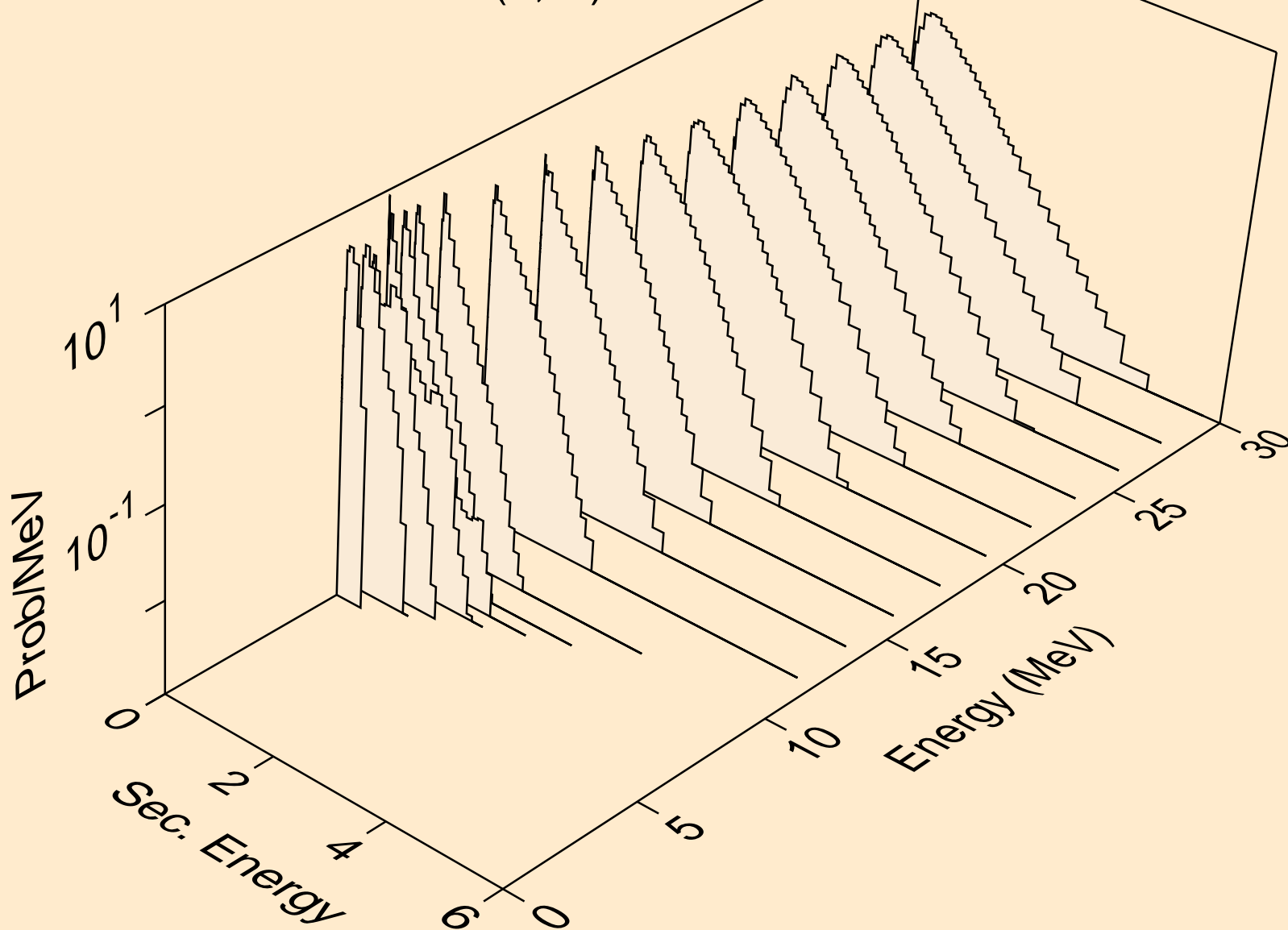


EU159 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,3n)

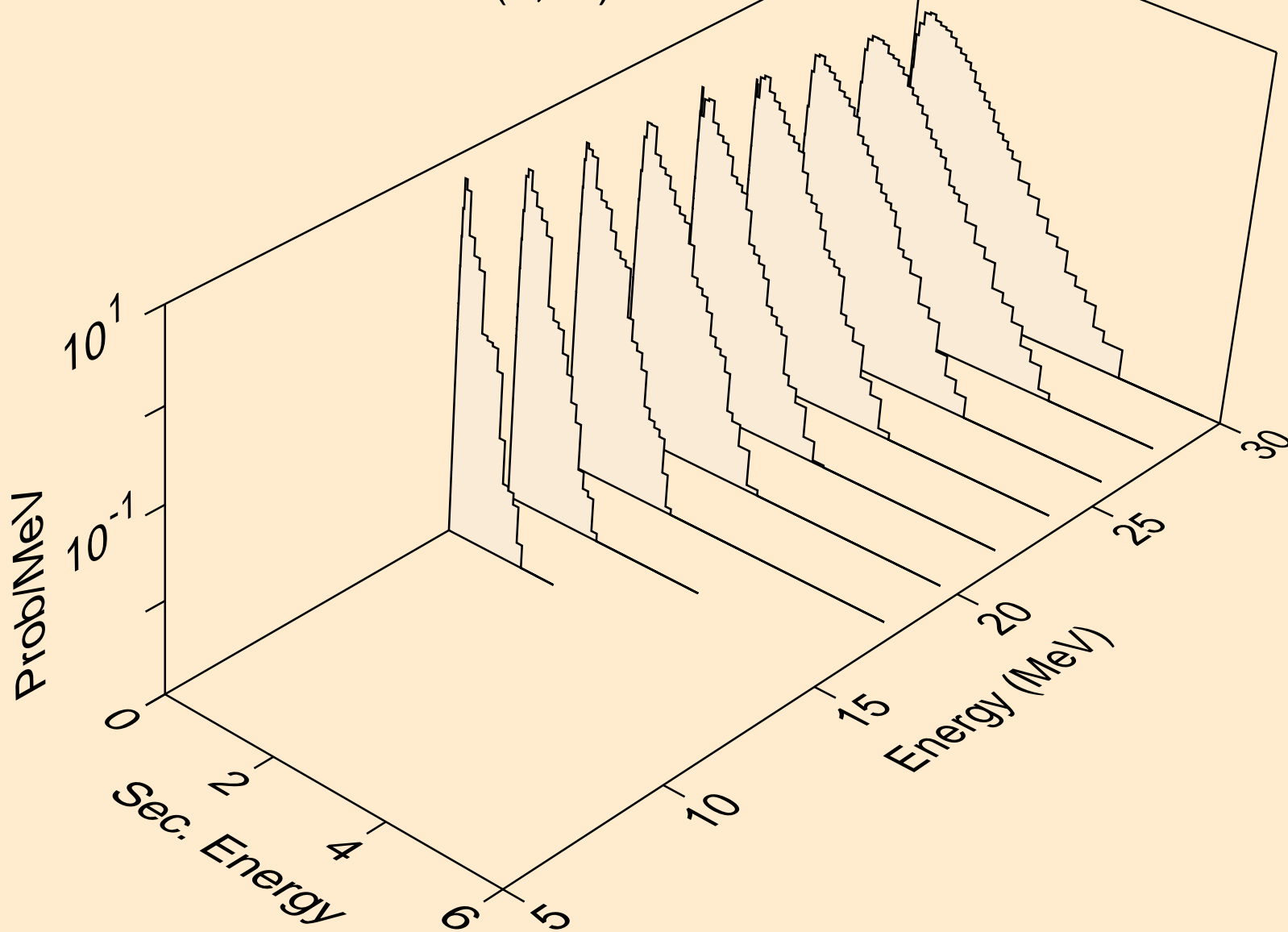




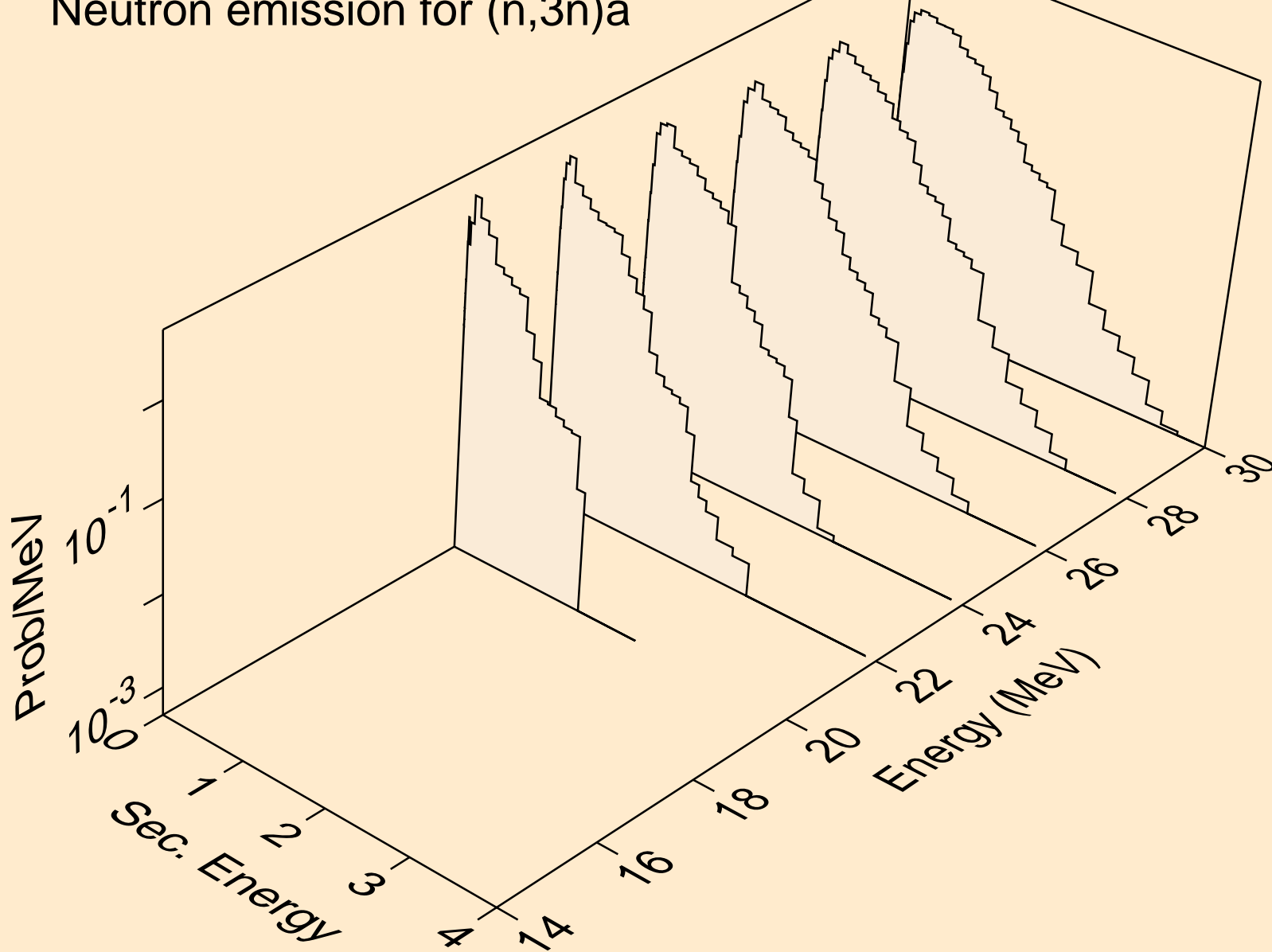
EU159 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,n\*)a



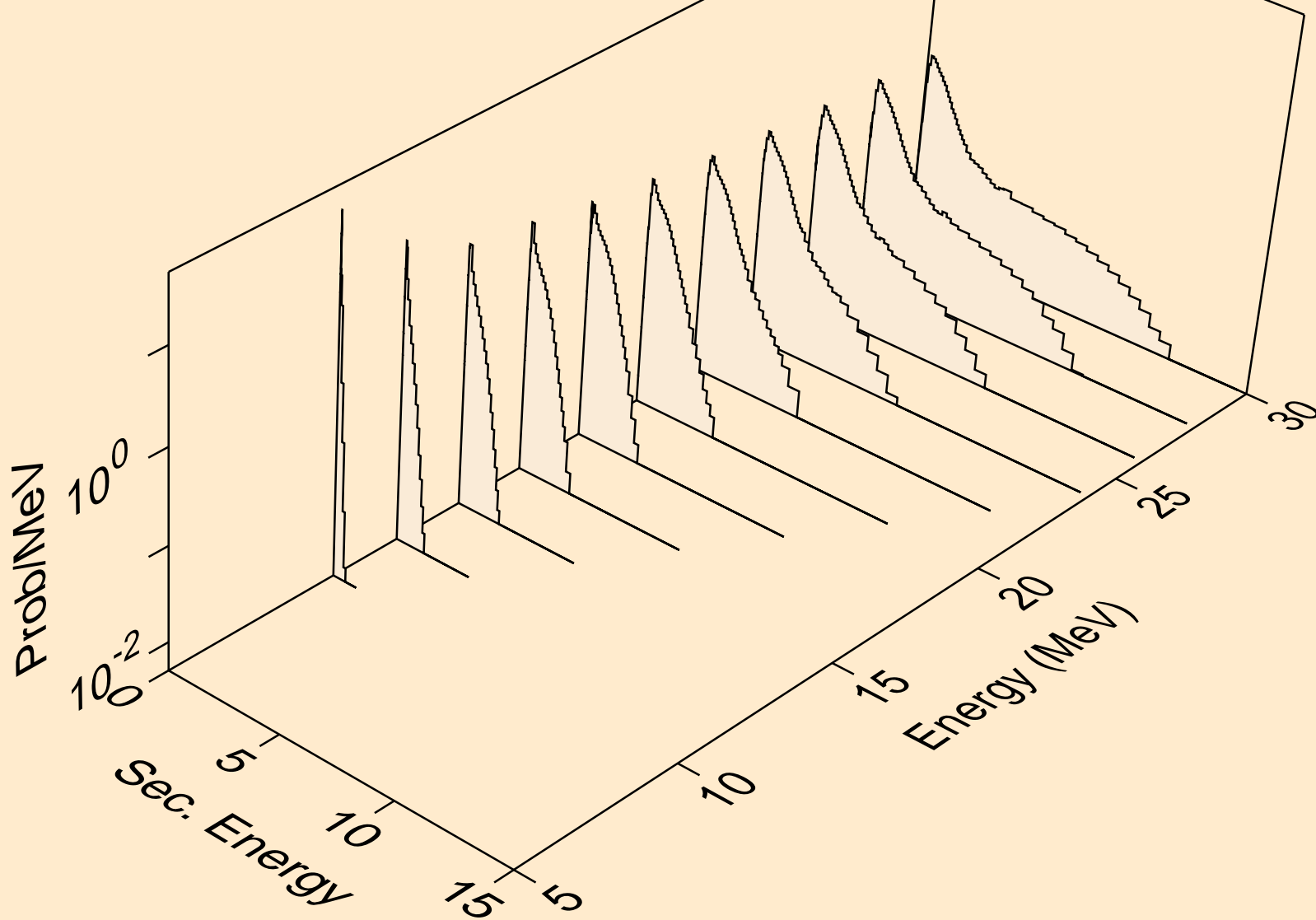
EU159 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,2n)a



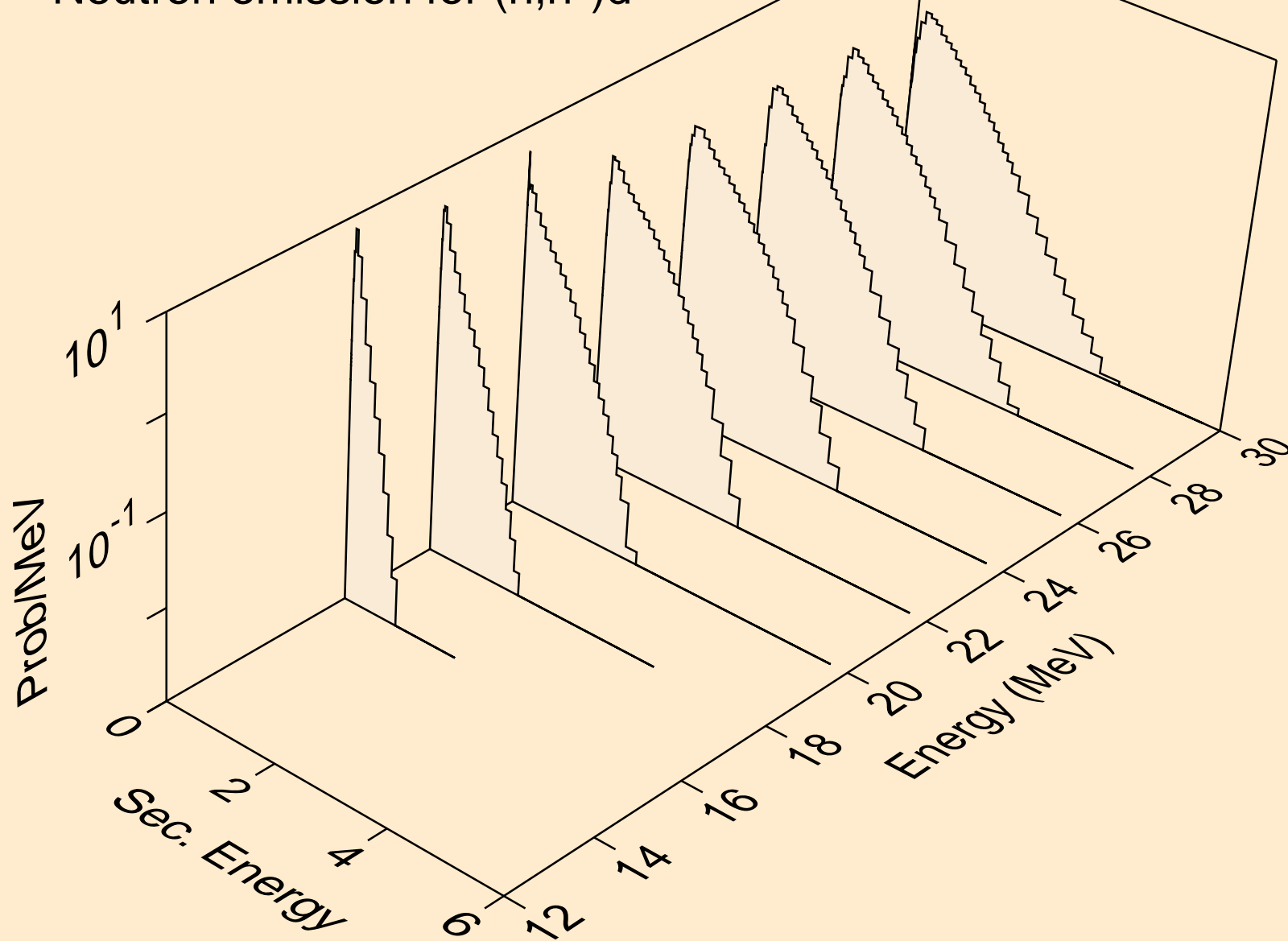
EU159 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,3n)a



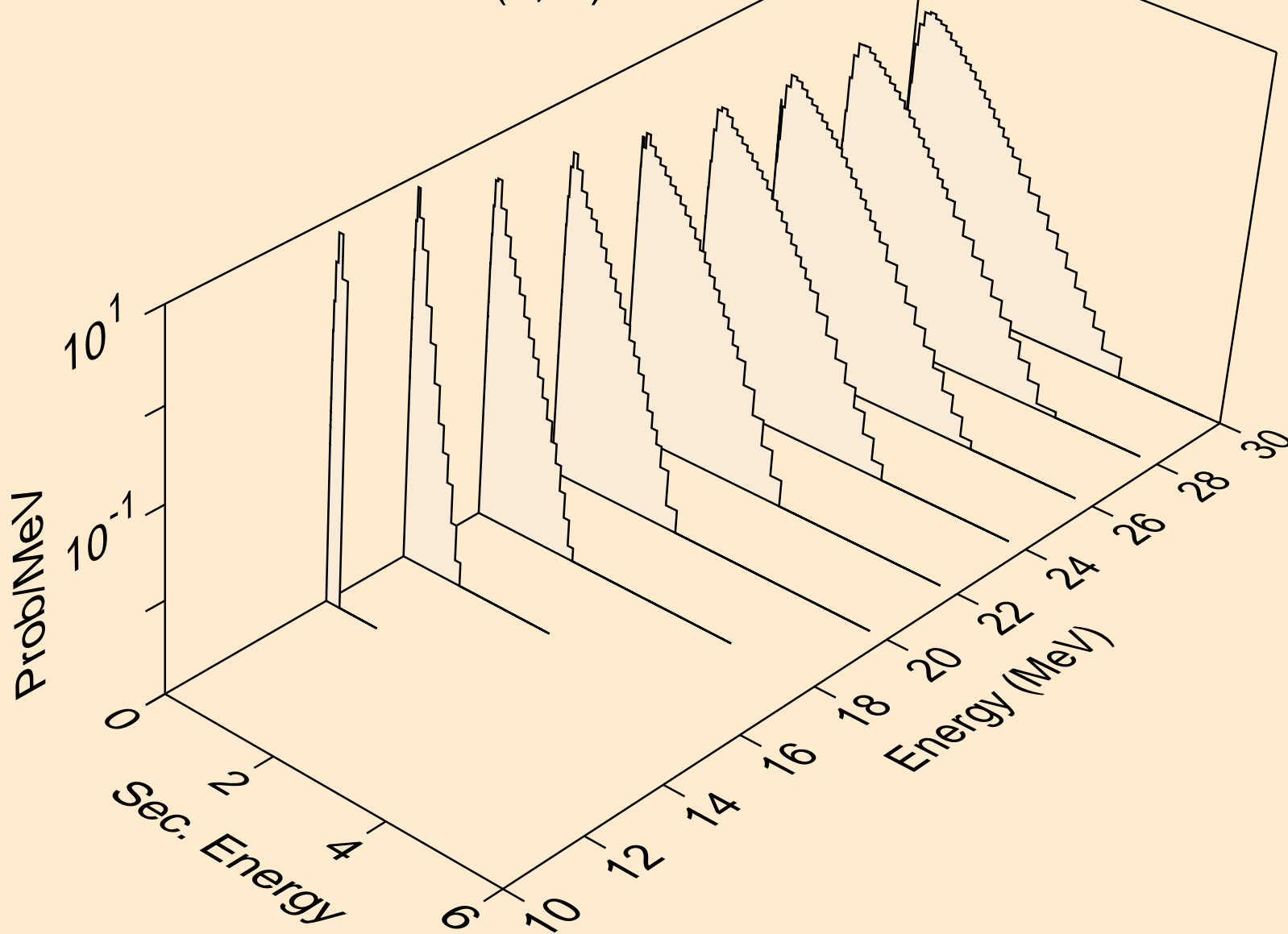
EU159 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,n\*)p



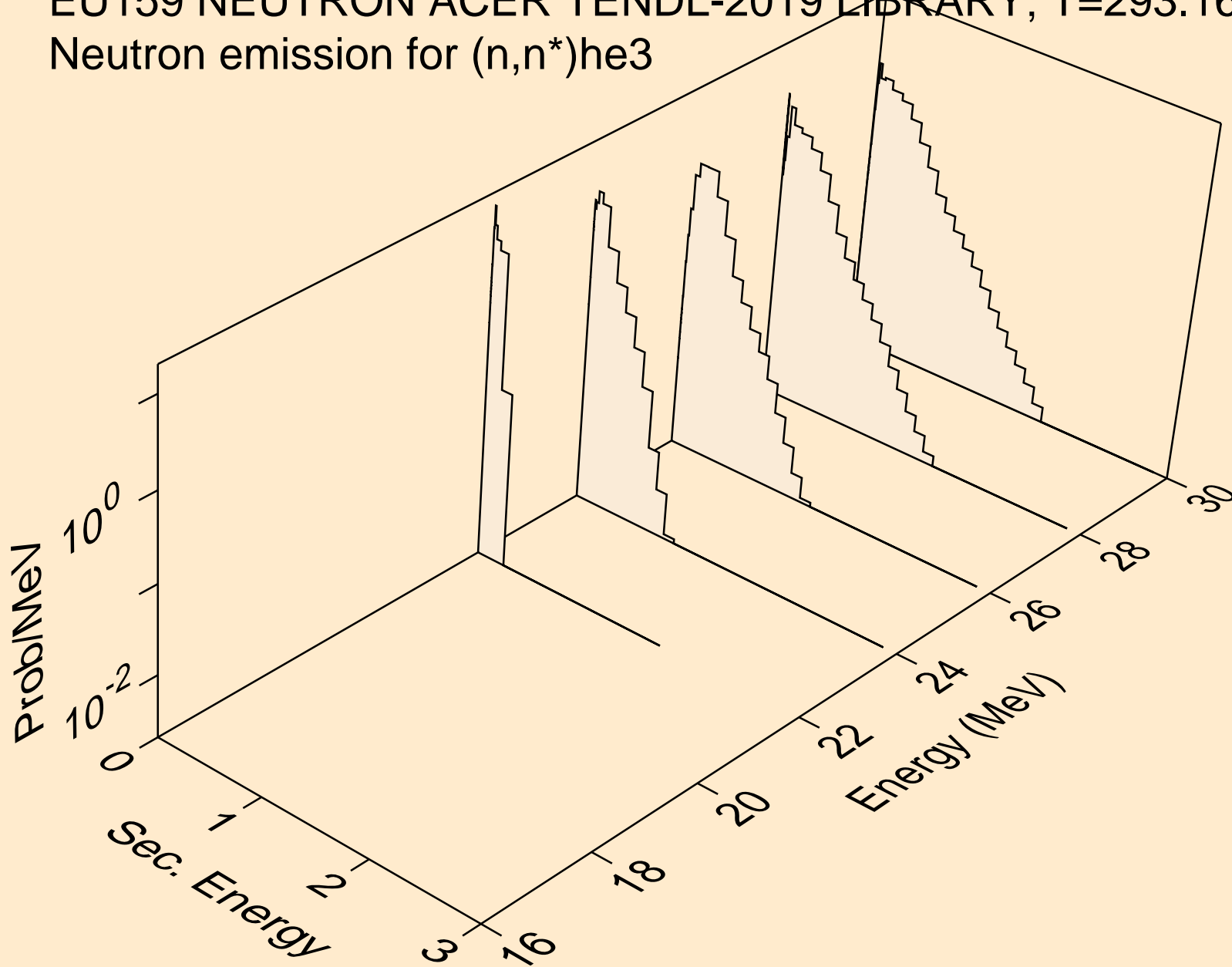
EU159 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,n\*)d



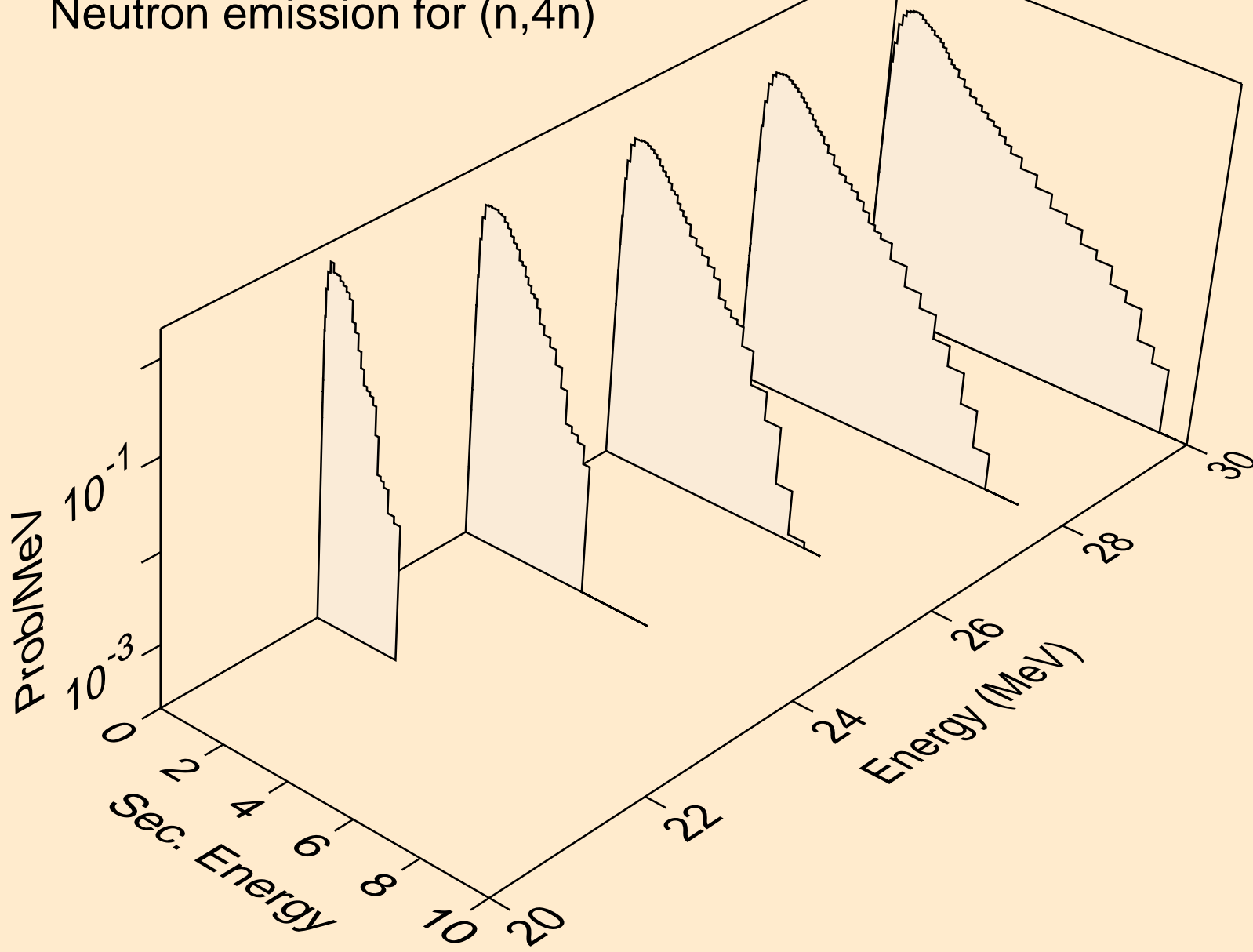
EU159 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,n\*)t



EU159 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,n\*)he3

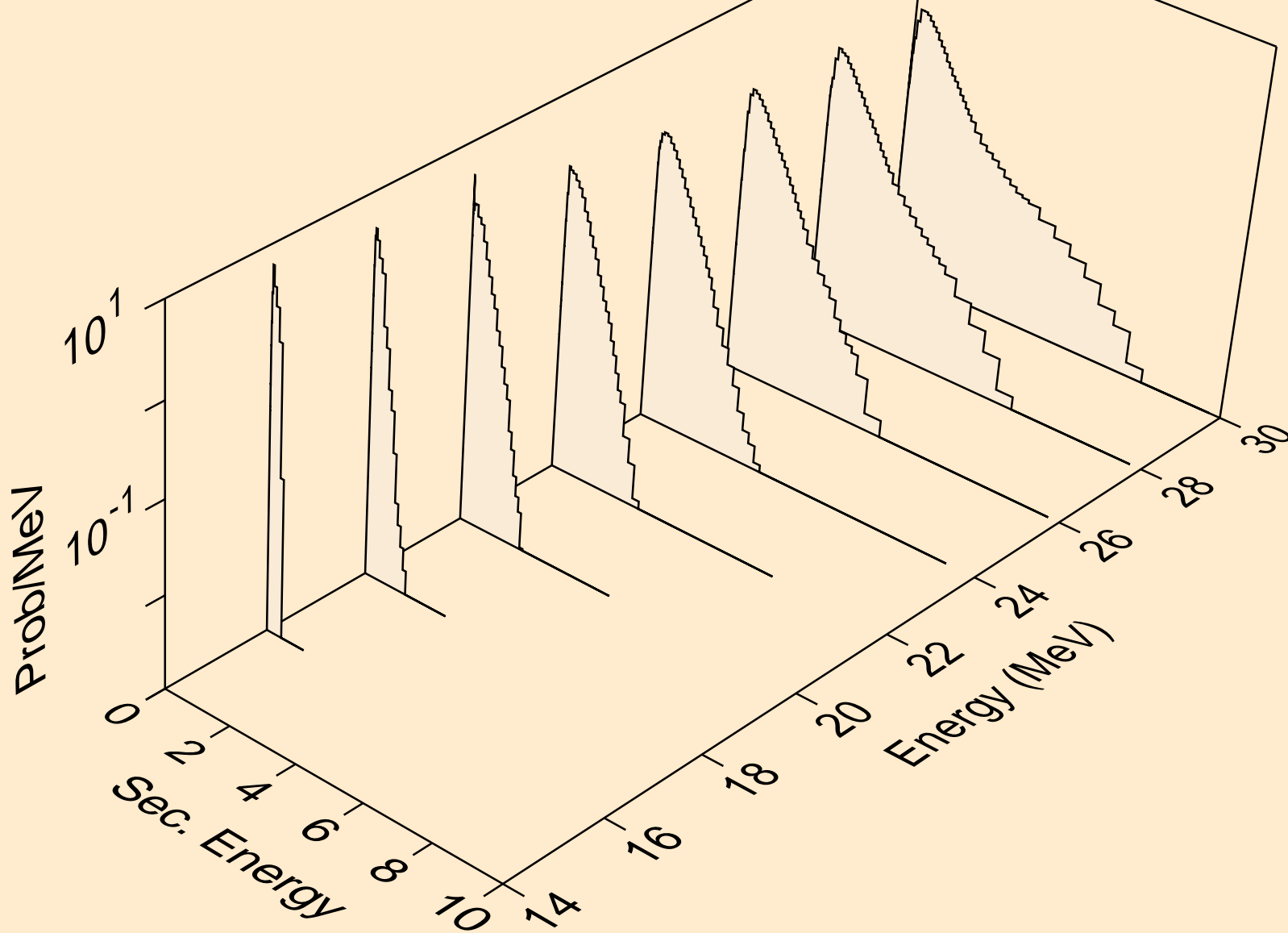


EU159 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,4n)

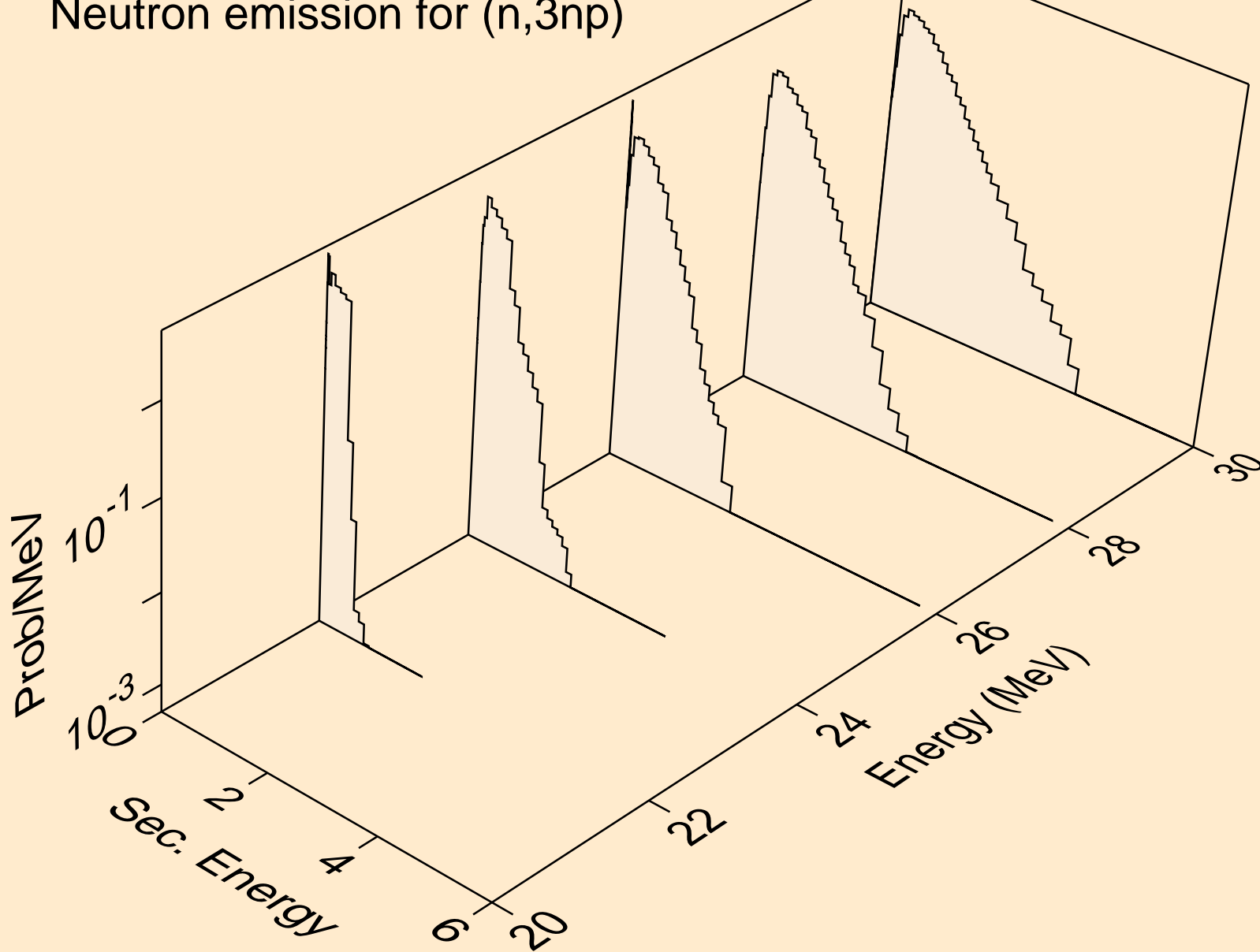




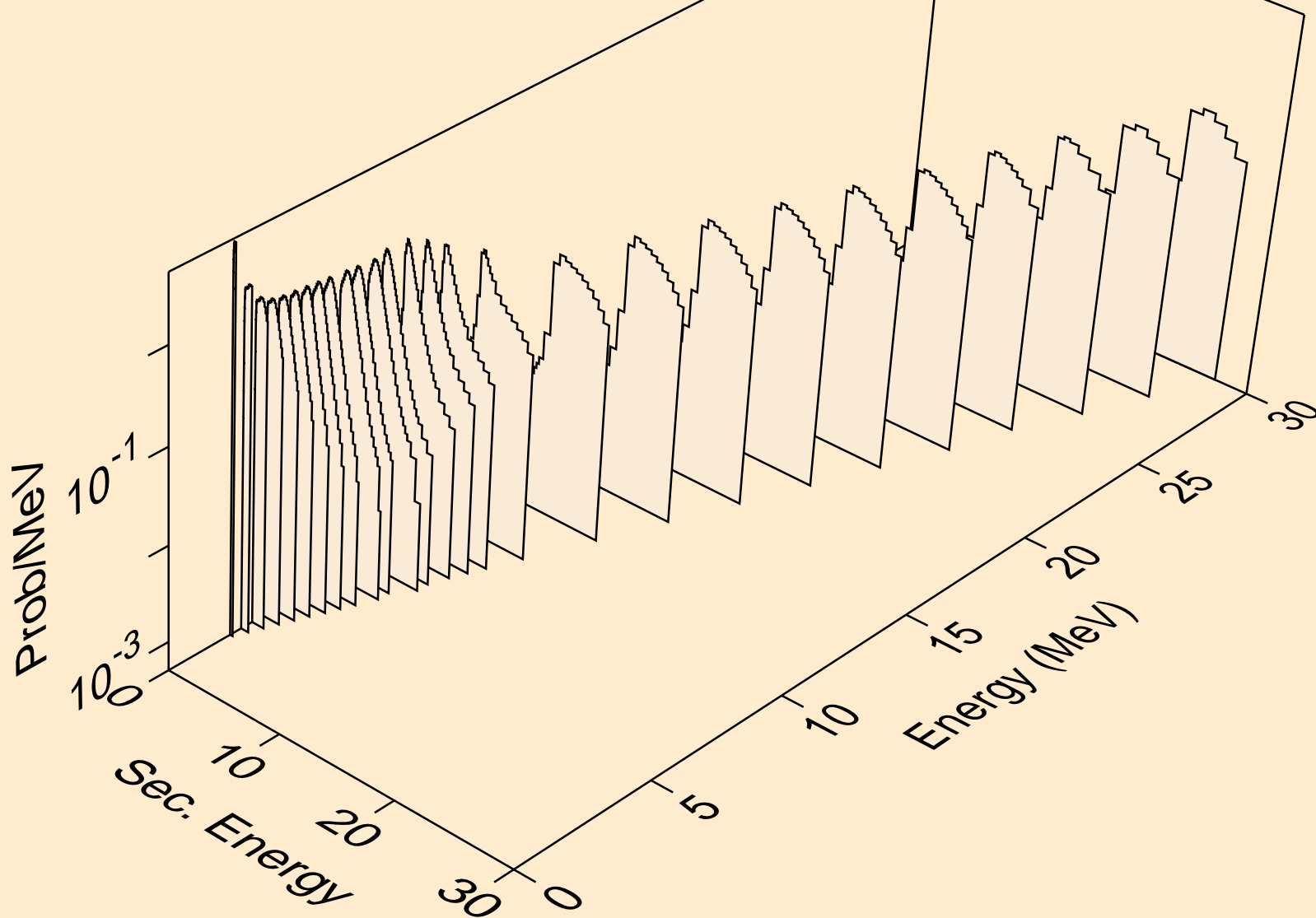
EU159 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,2np)



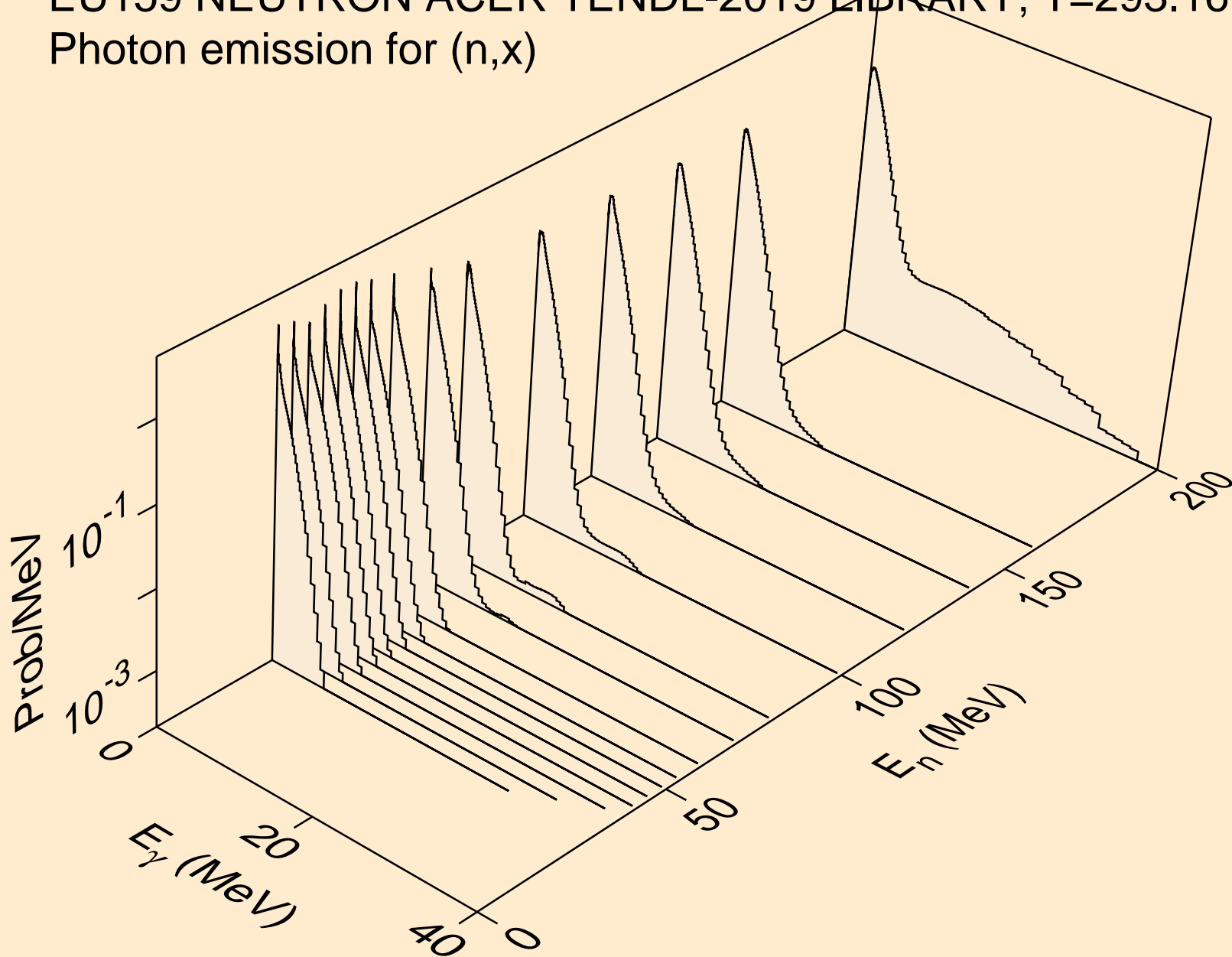
EU159 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,3np)



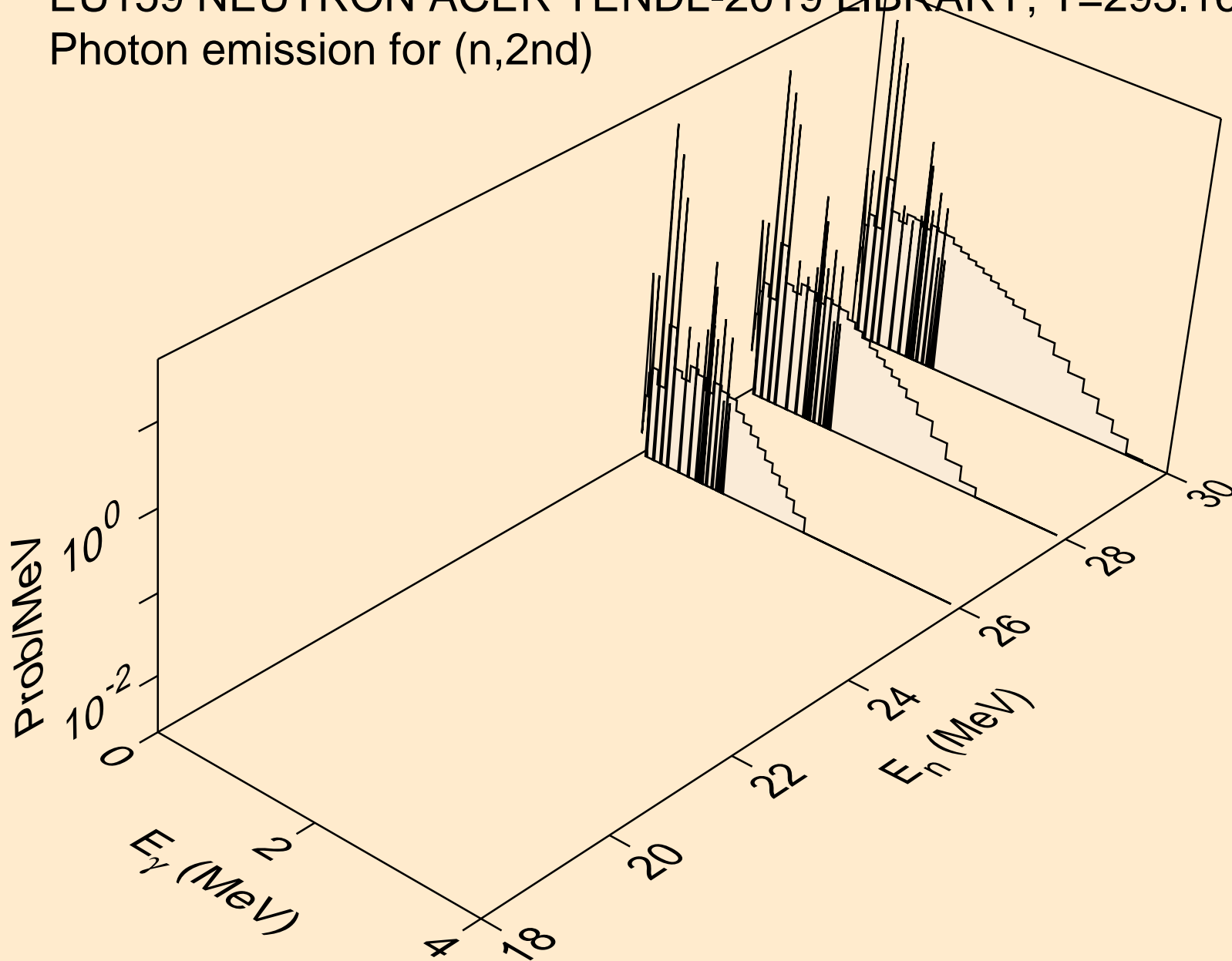
EU159 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,n\*c)



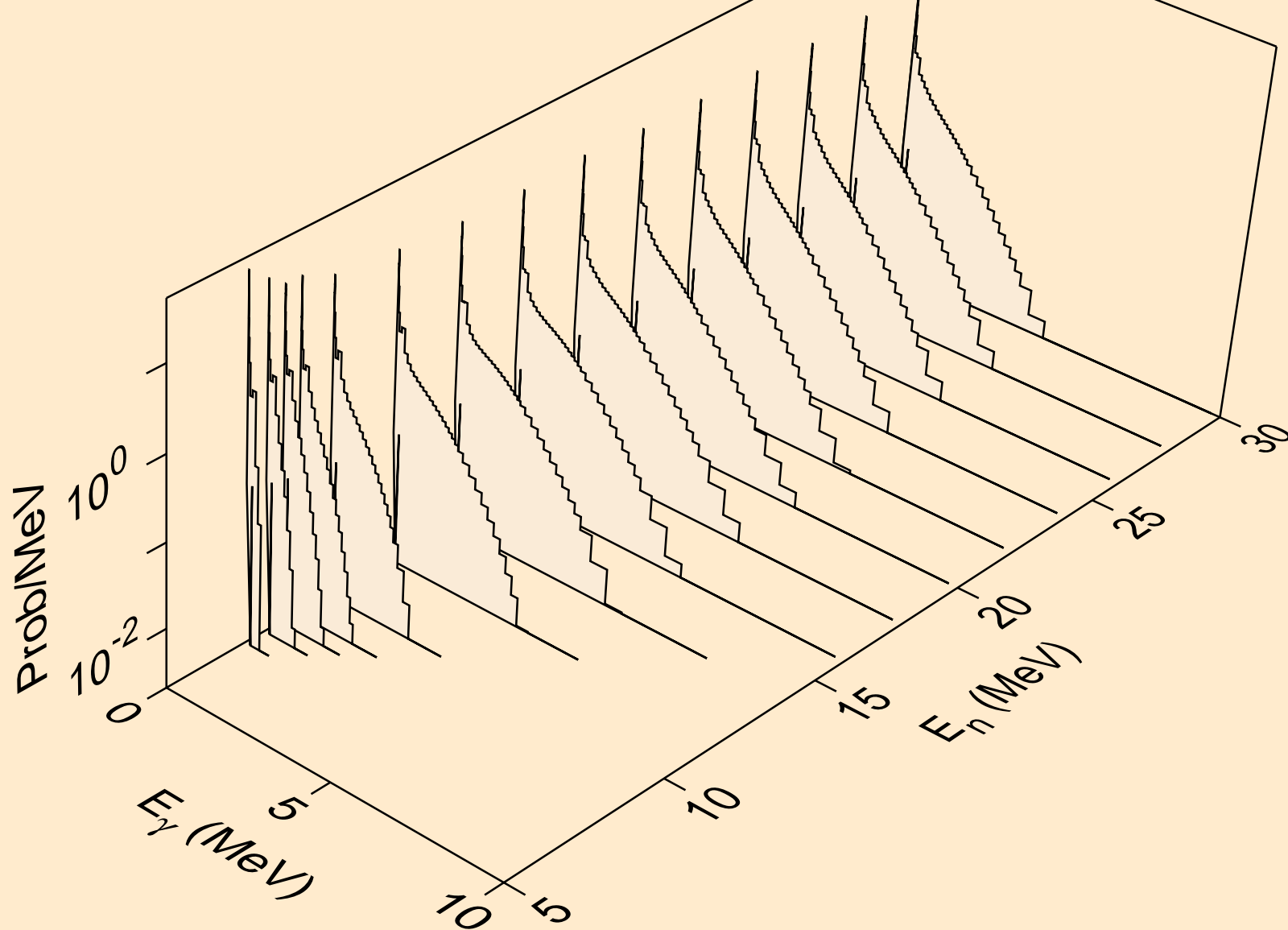
EU159 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,x)



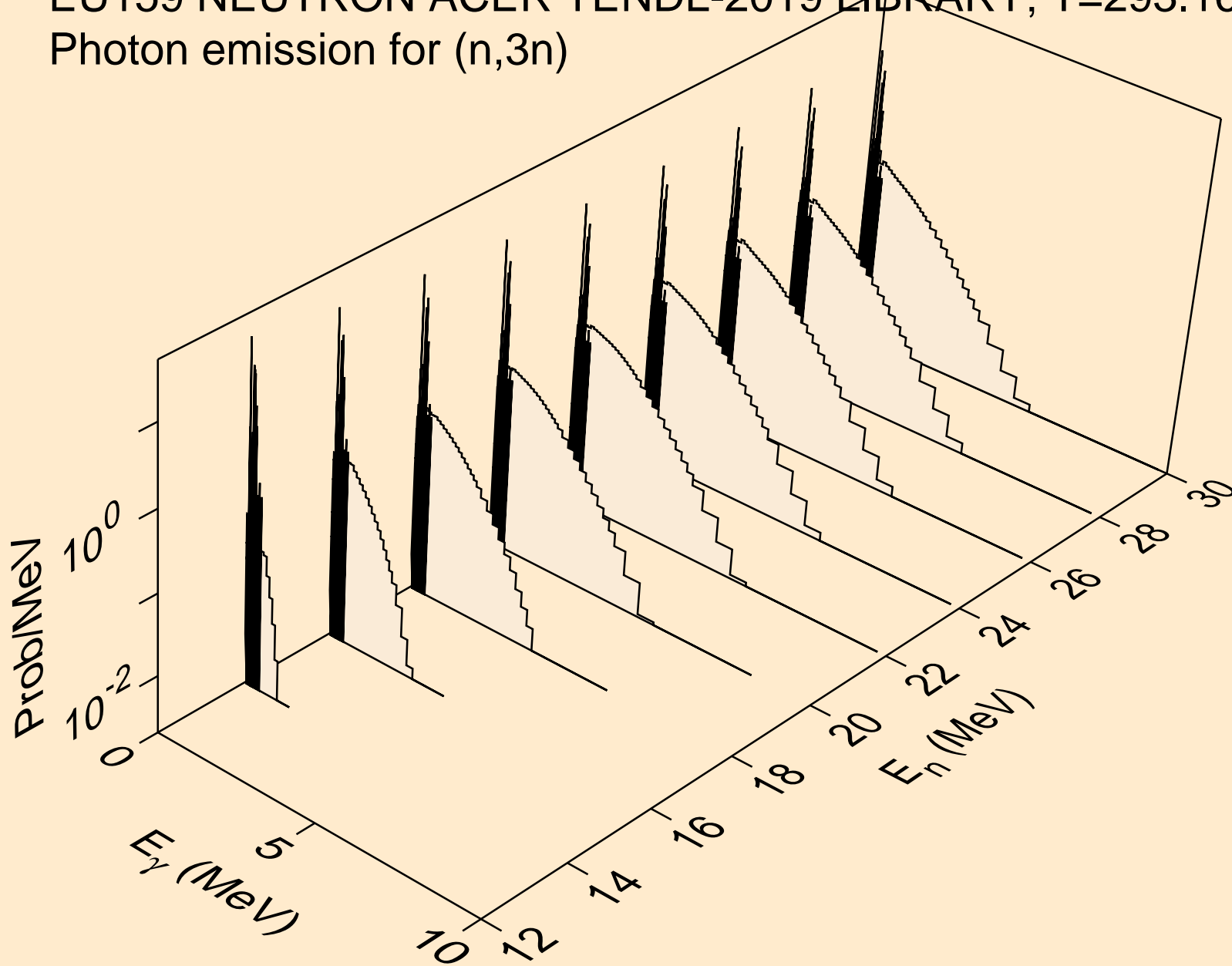
EU159 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,2nd)



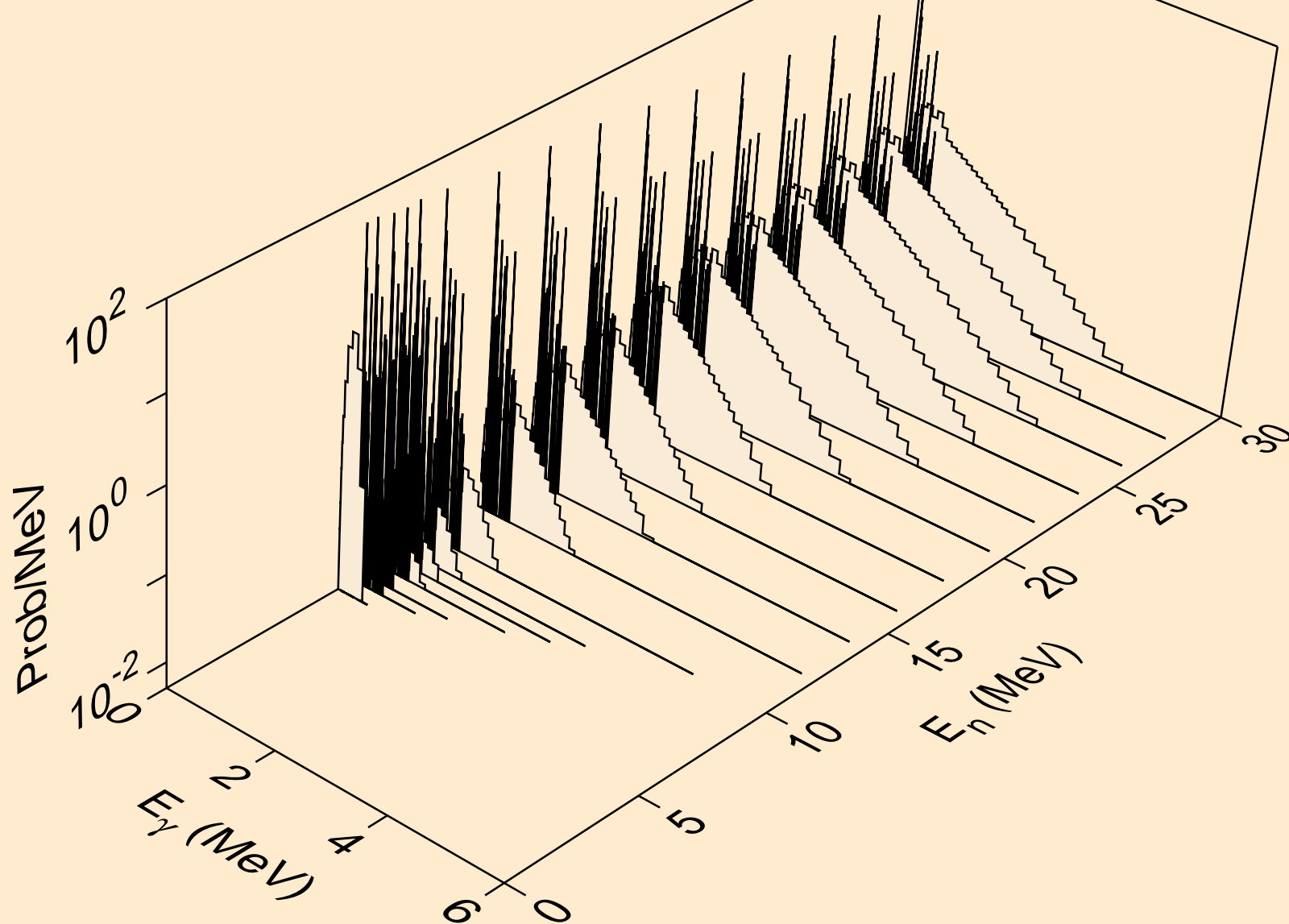
EU159 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,2n)



EU159 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,3n)

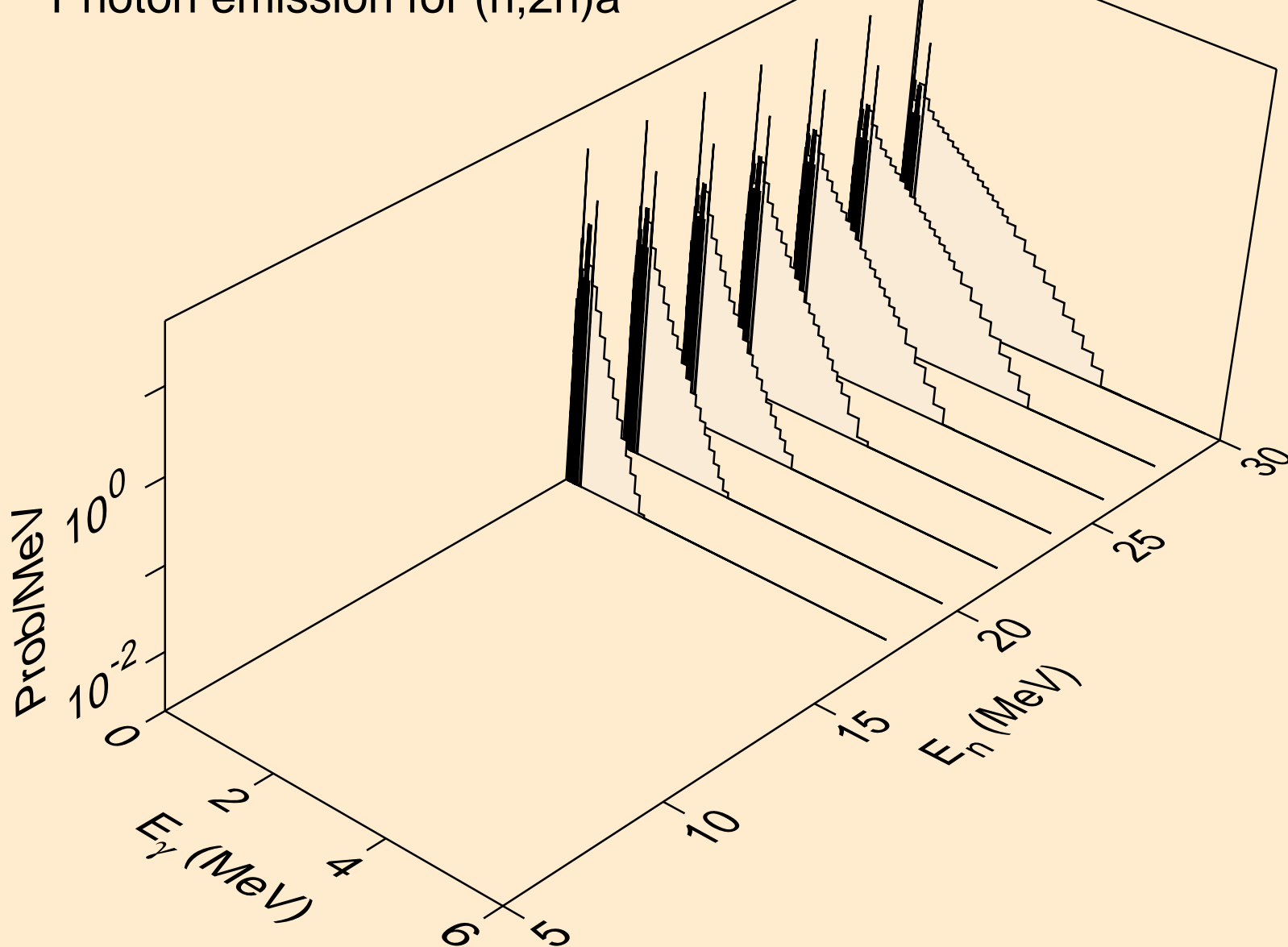


EU159 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,n\*)a

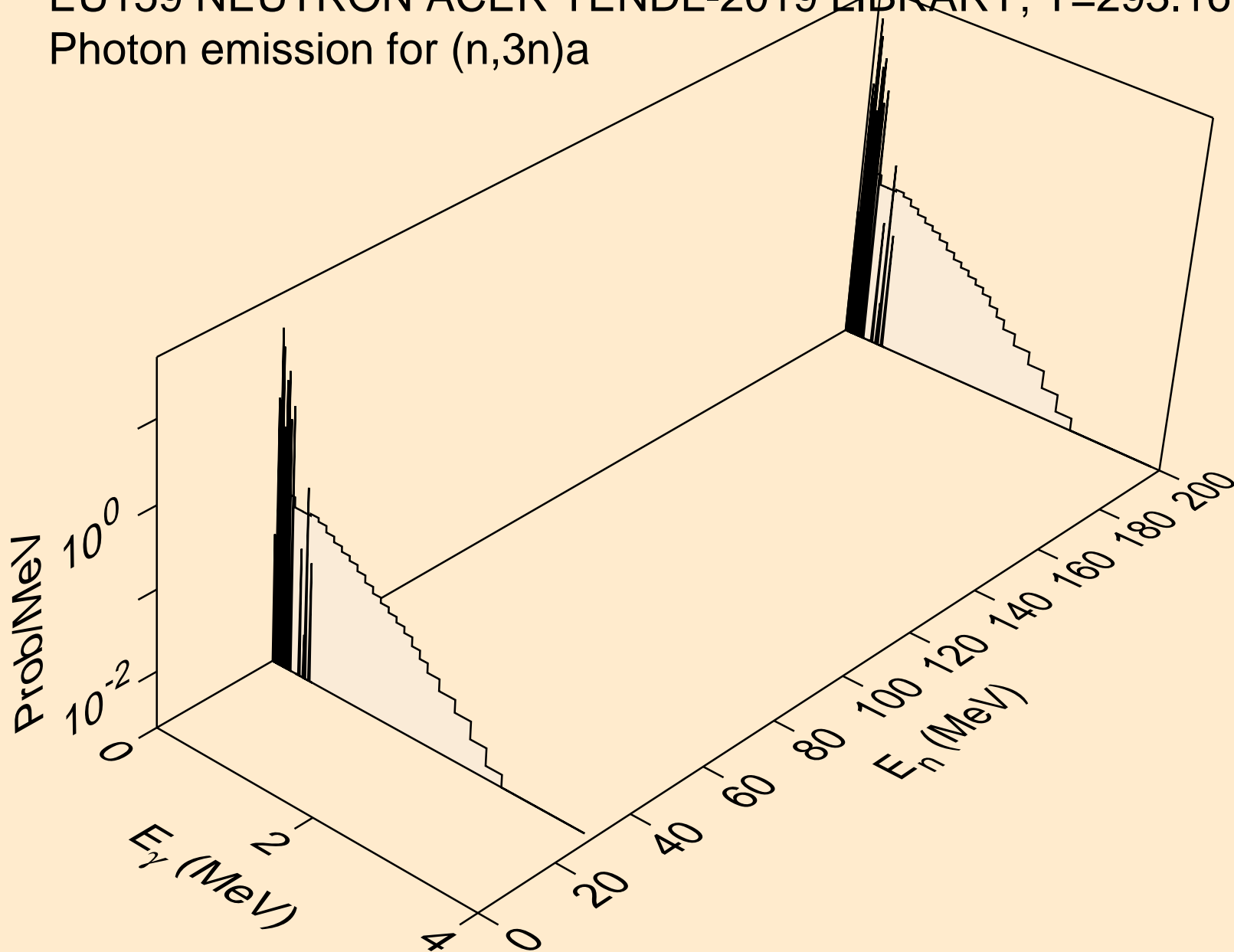




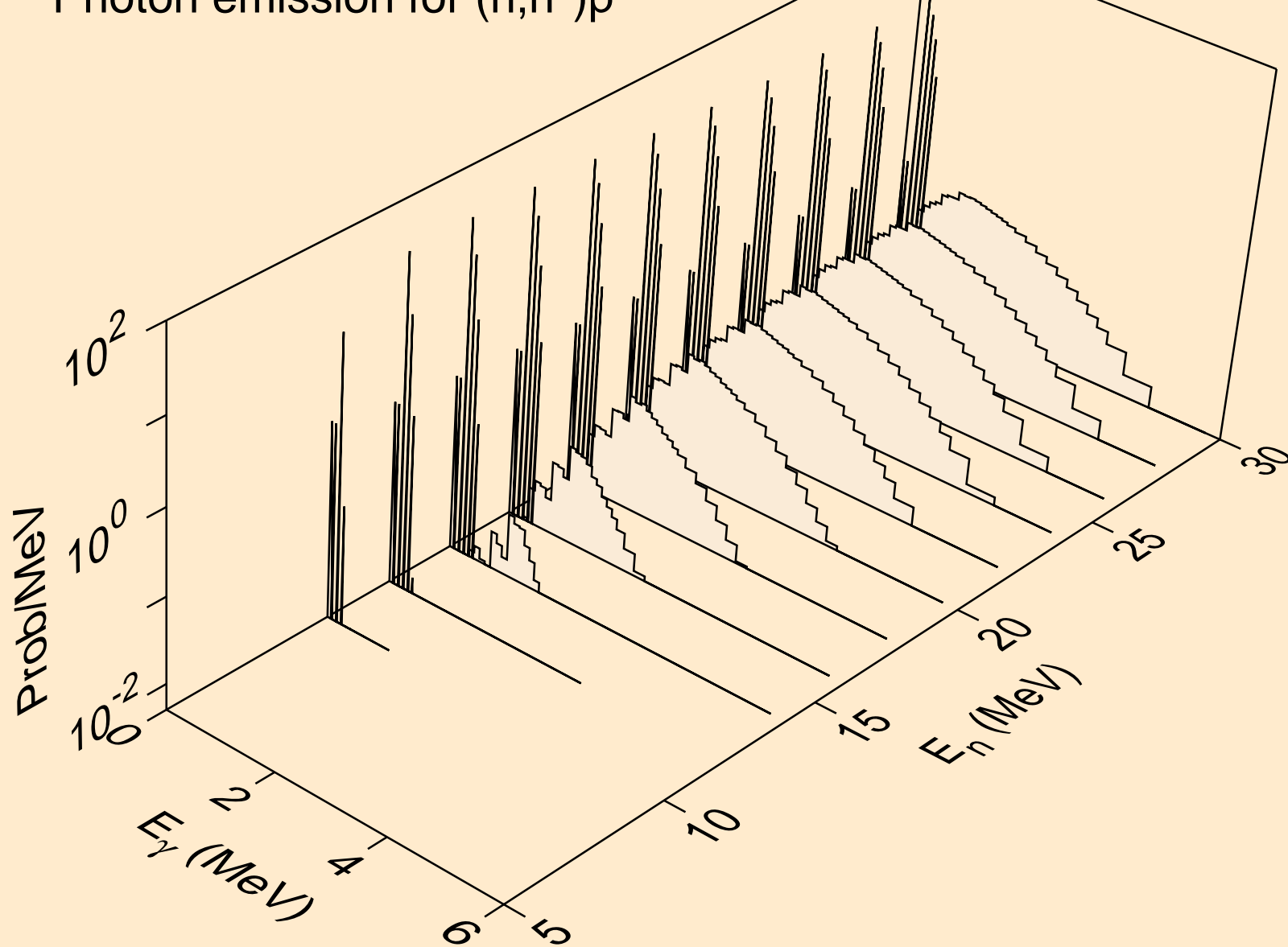
EU159 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,2n)a



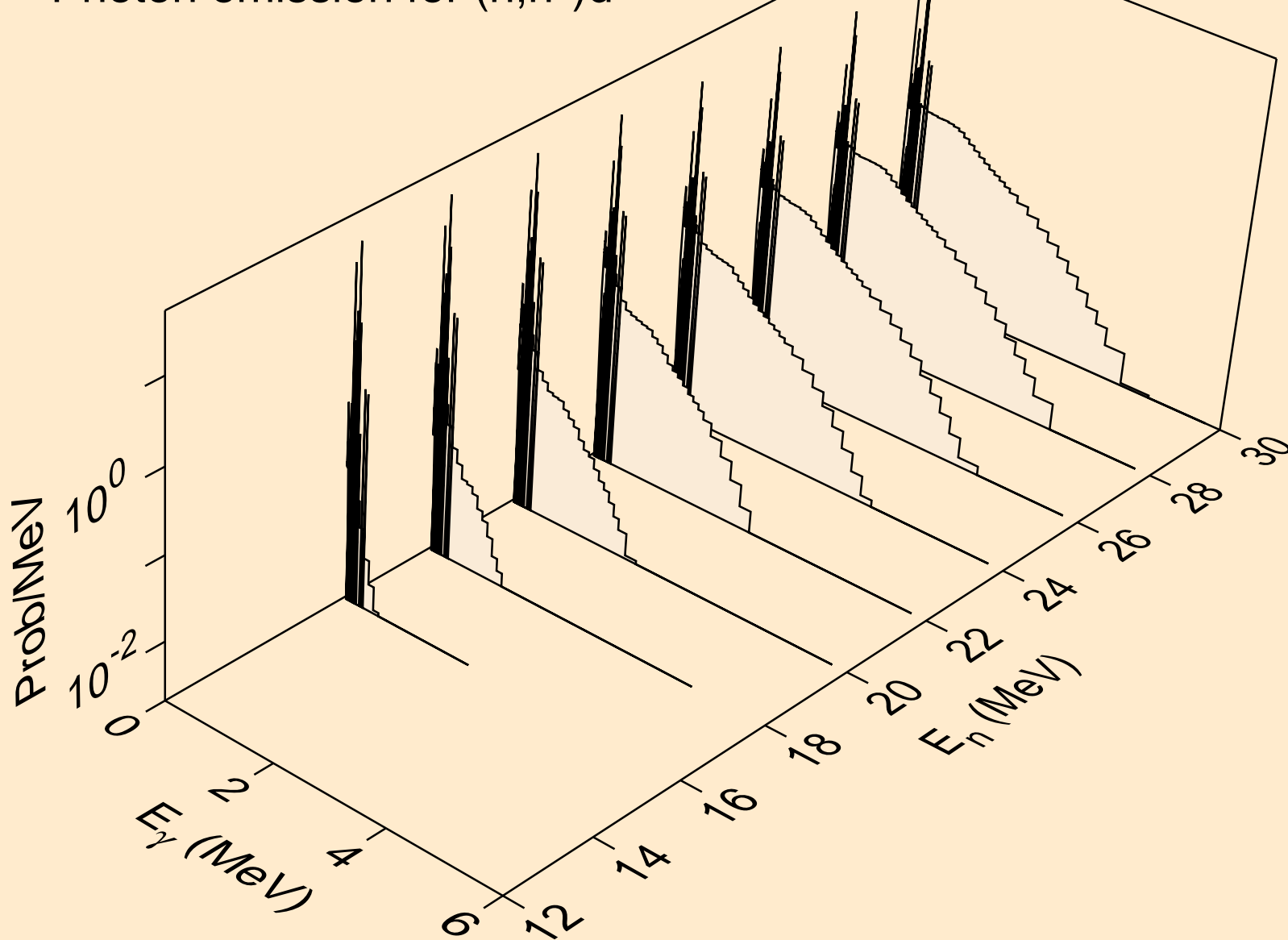
EU159 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,3n)a



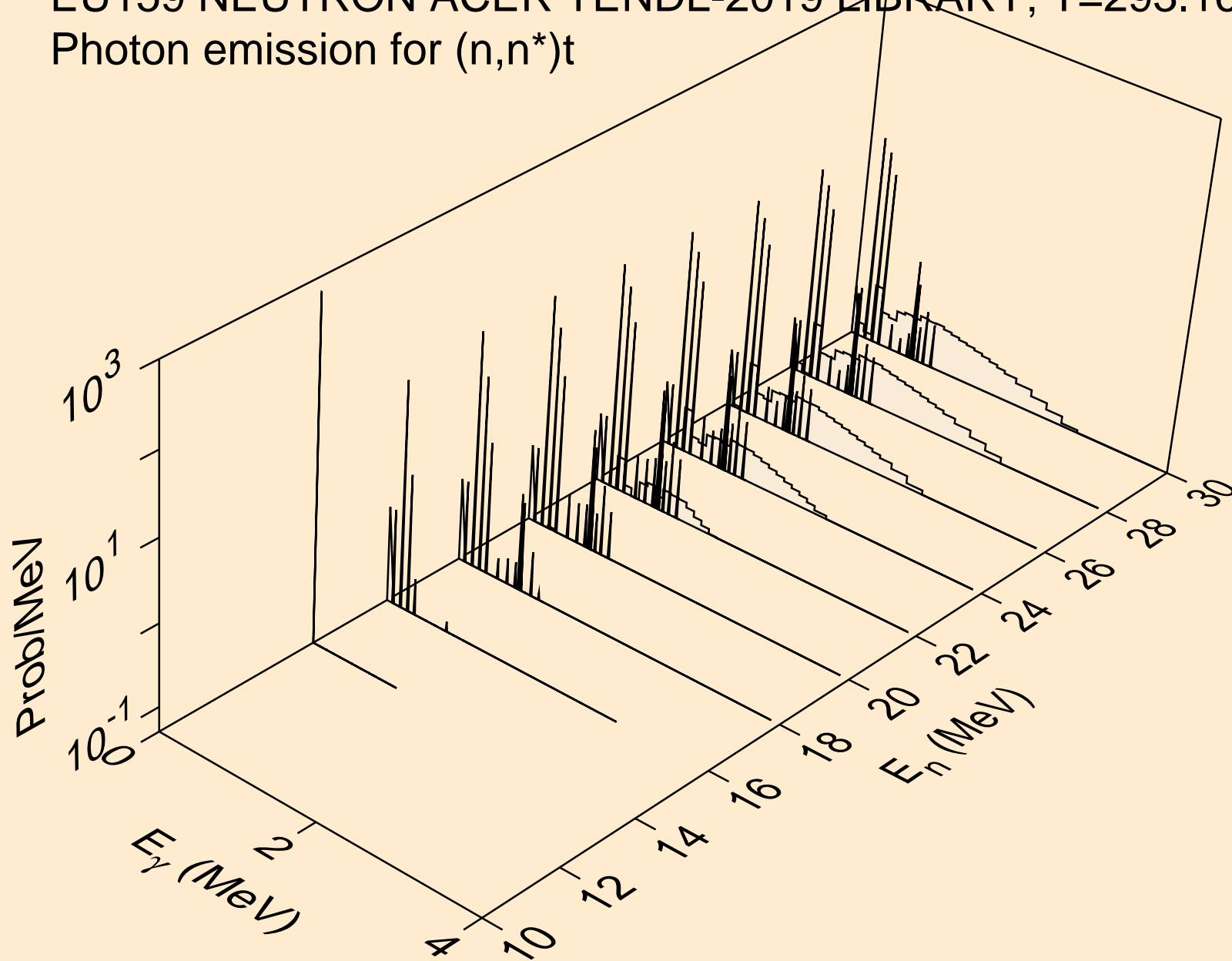
EU159 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,n\*)p



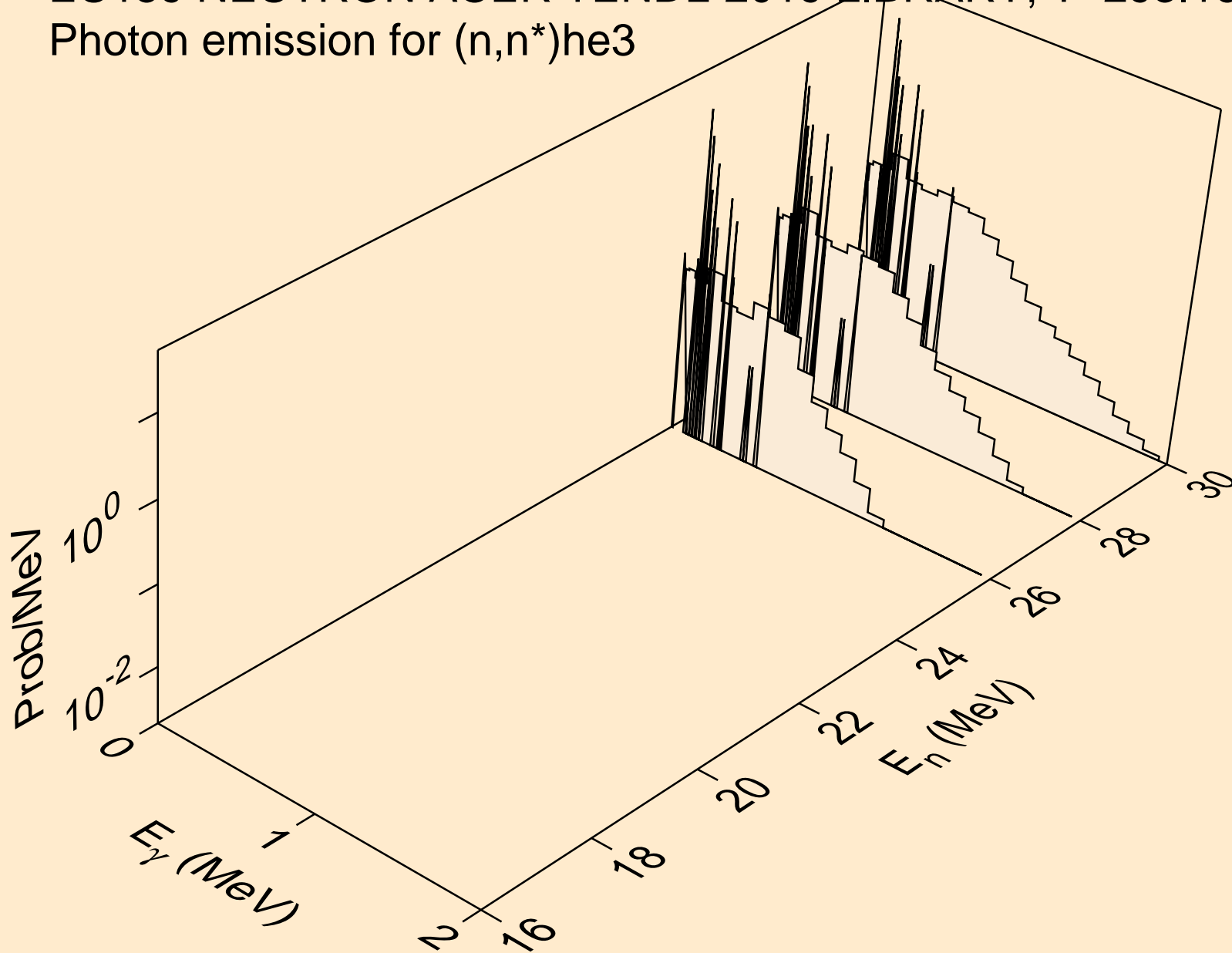
EU159 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,n\*)d



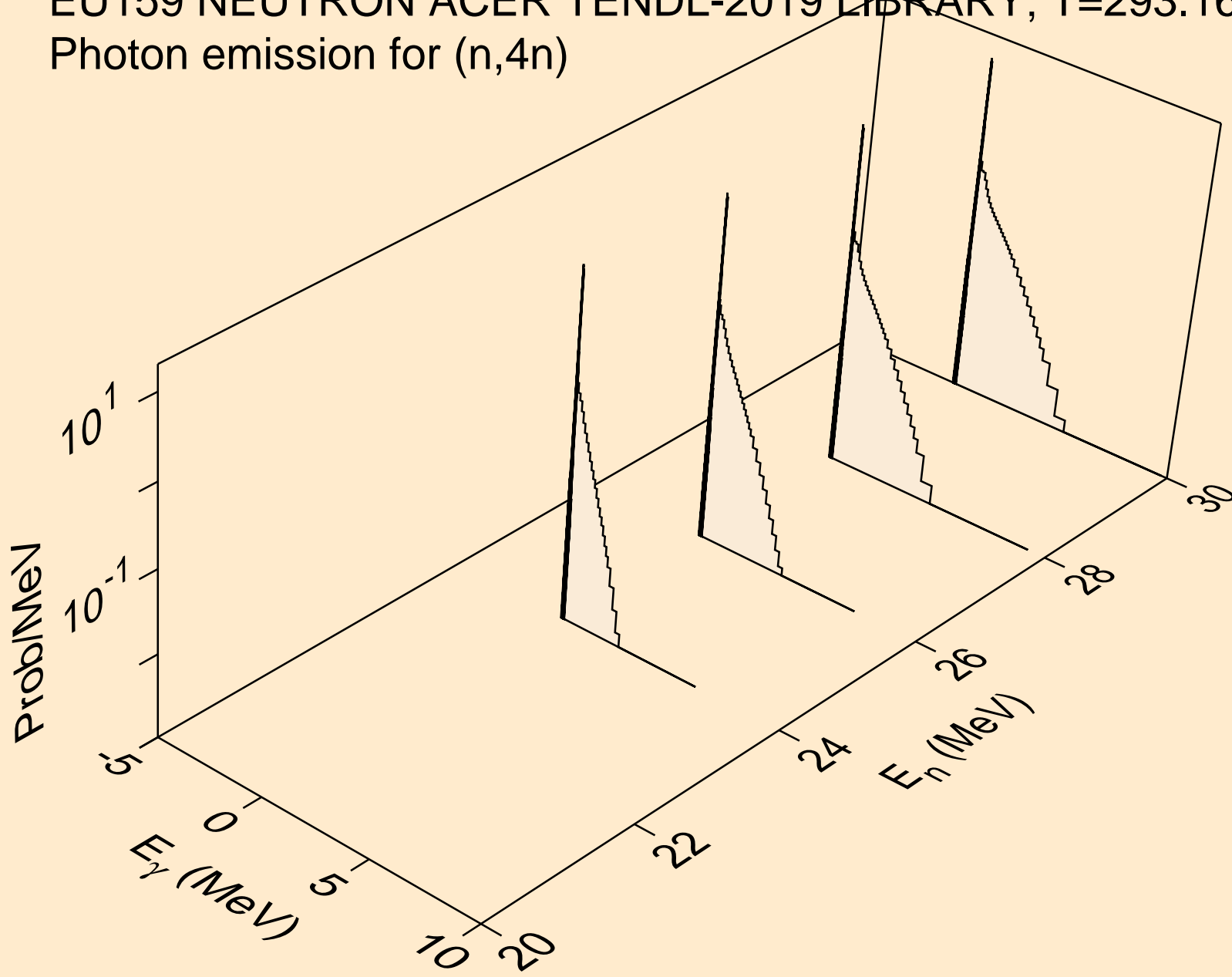
EU159 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,n\*)t



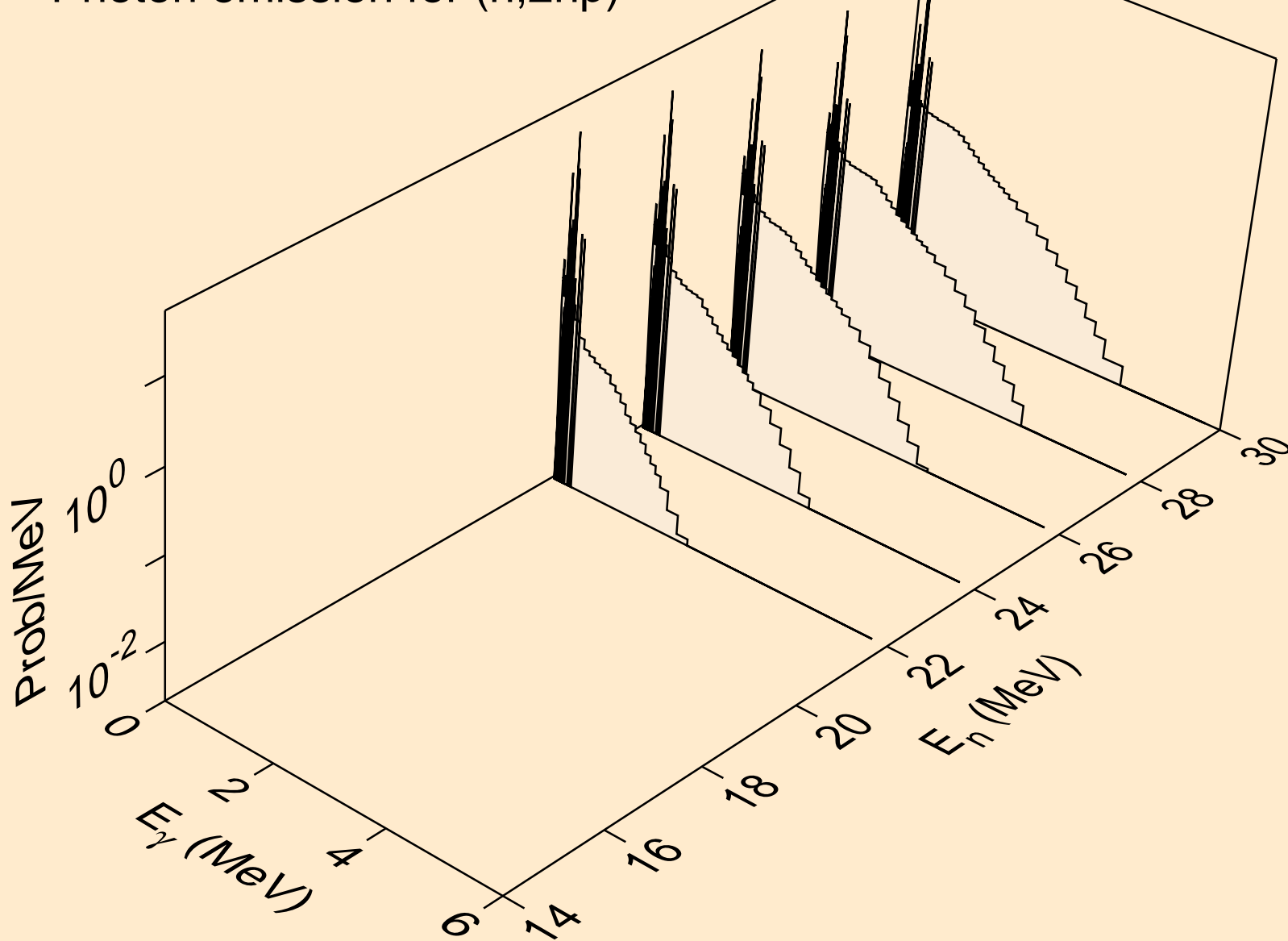
EU159 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,n\*)he3



EU159 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,4n)

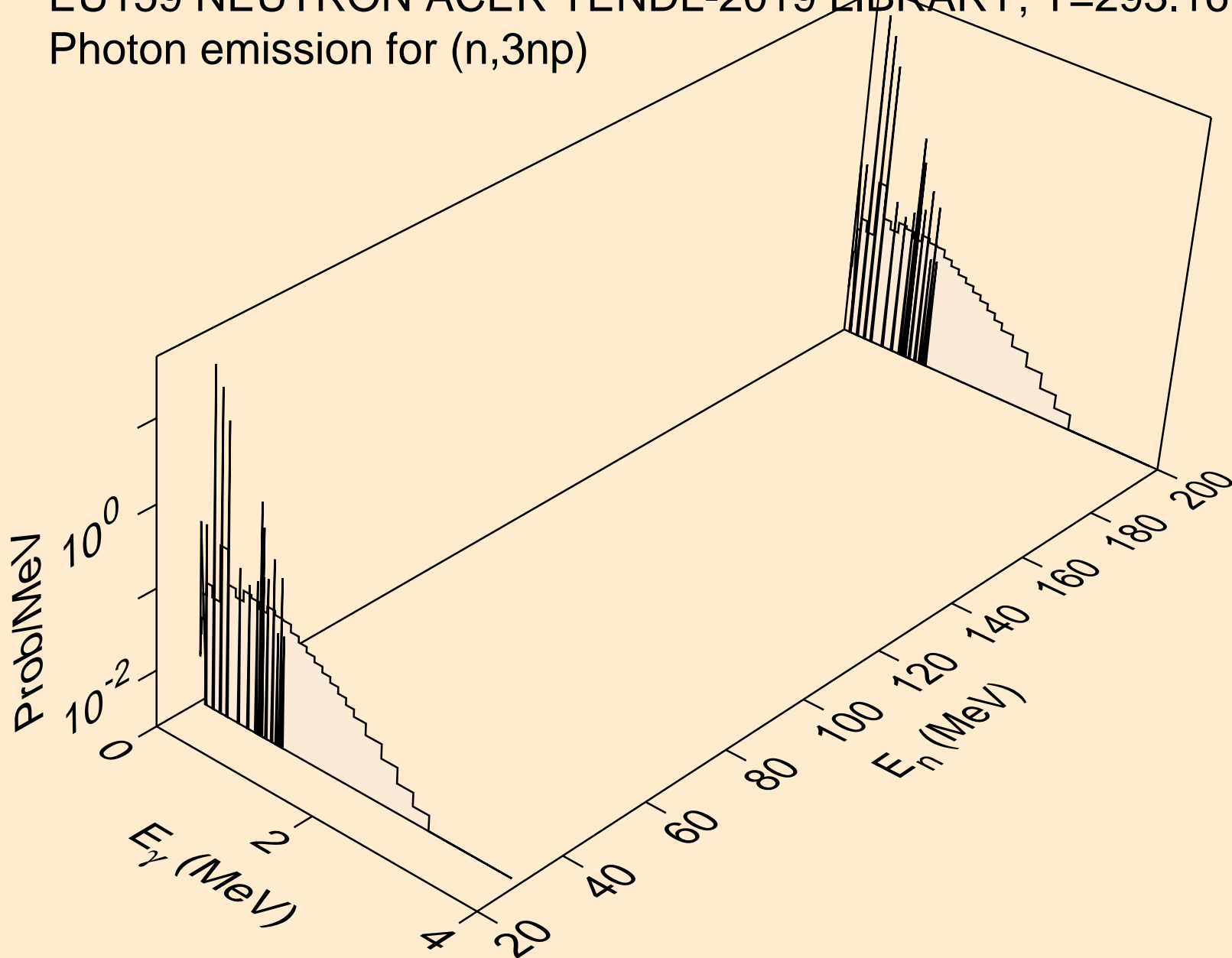


EU159 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,2np)

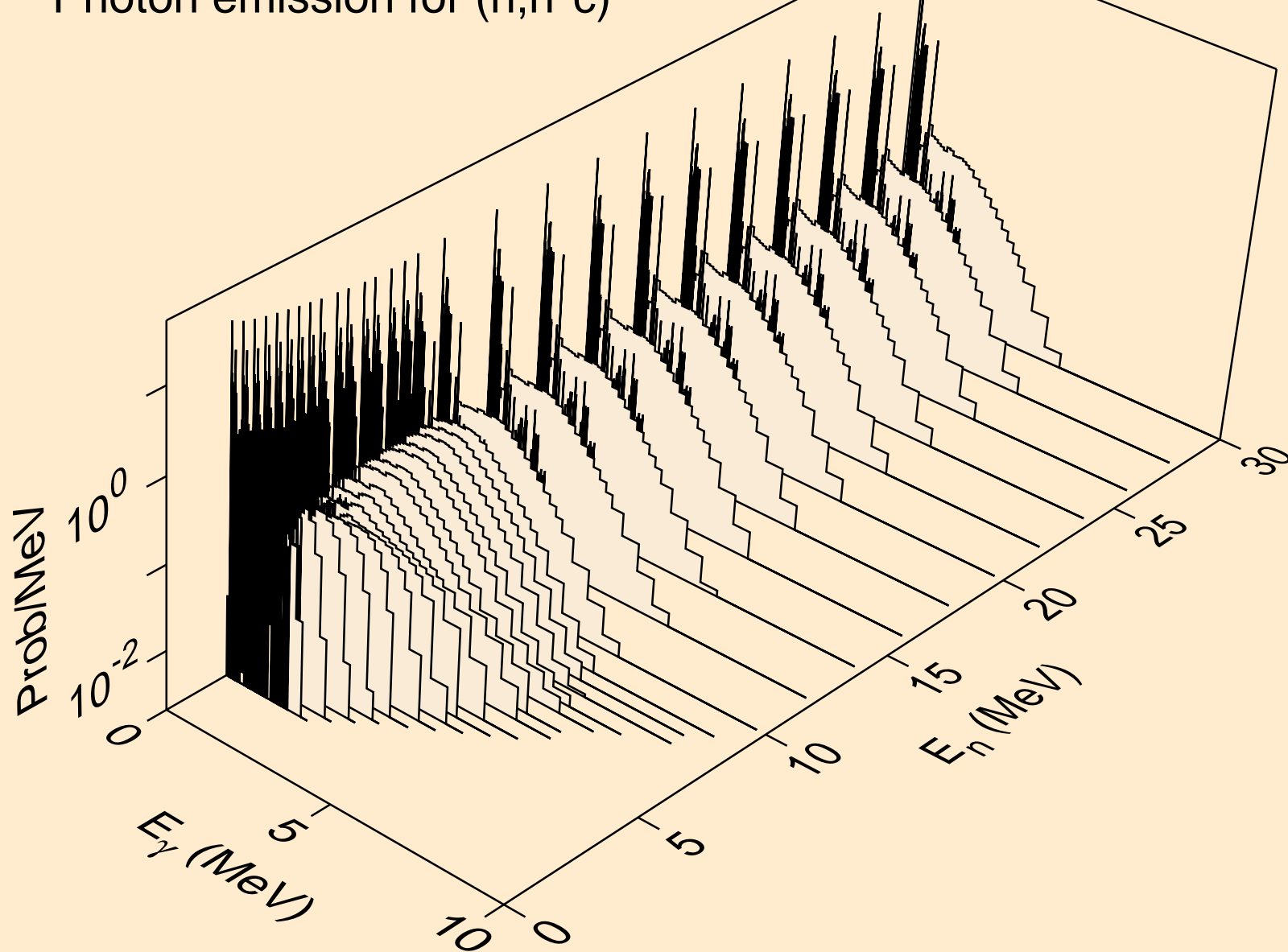




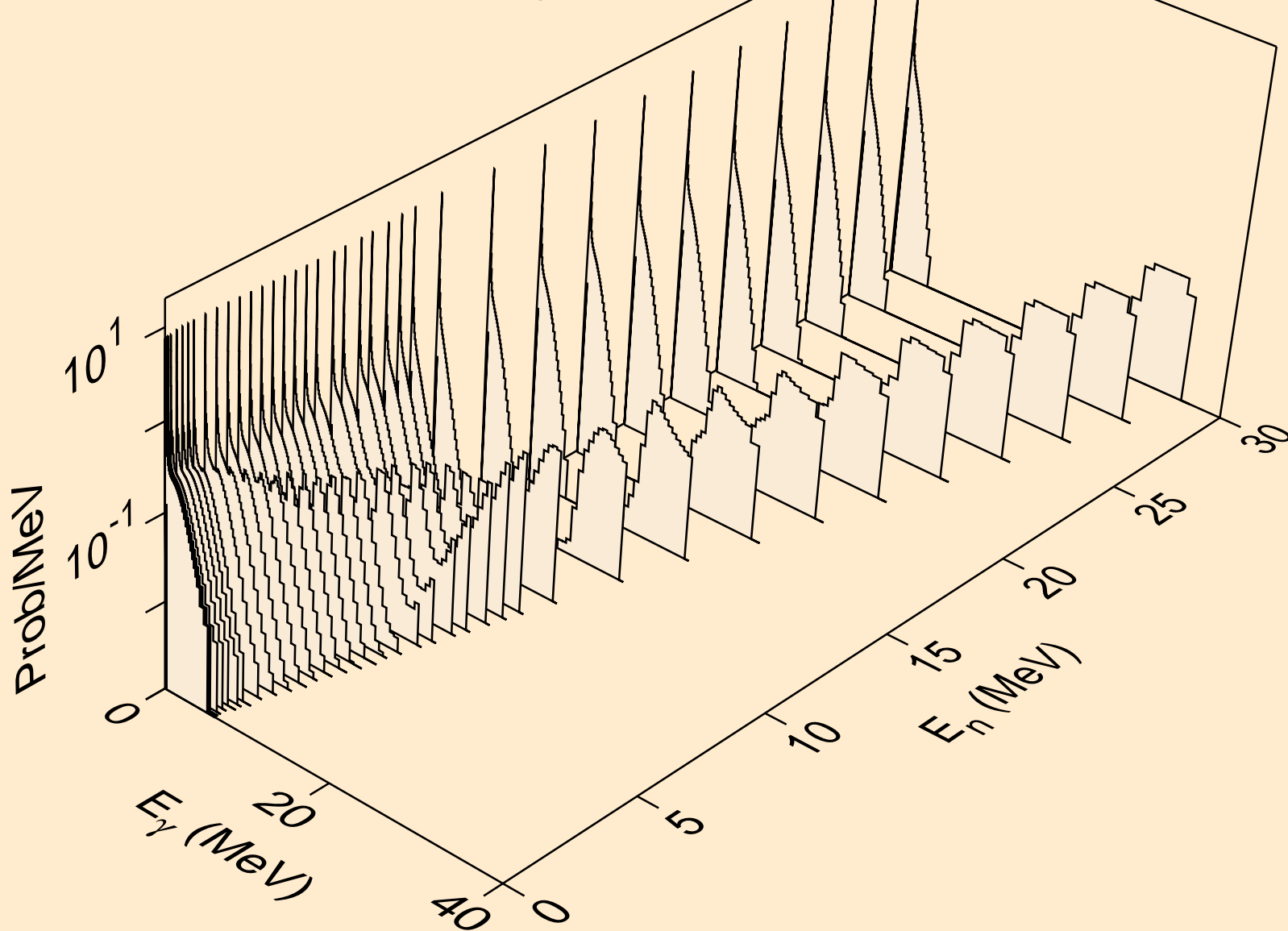
EU159 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,3np)



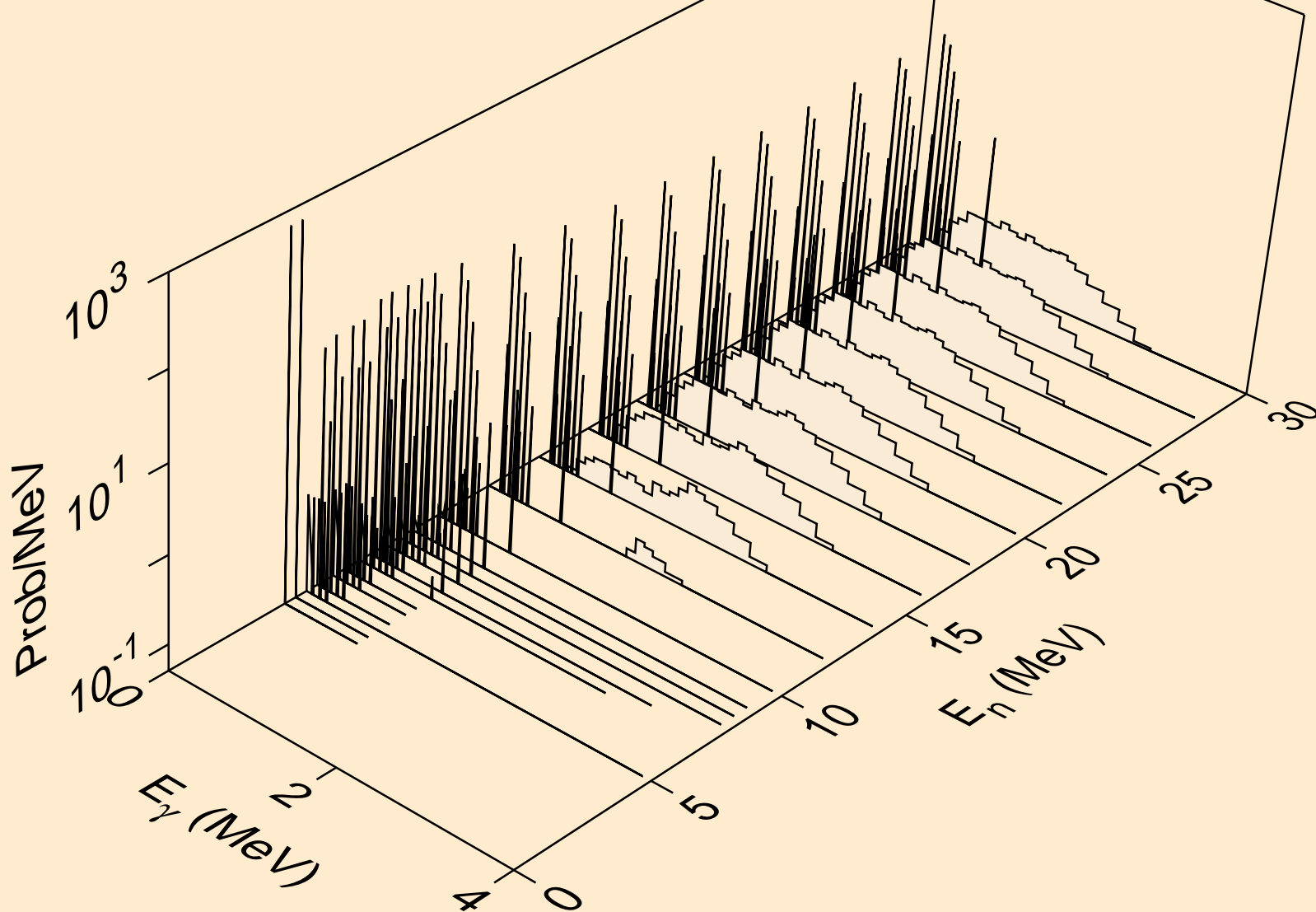
EU159 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,n\*c)



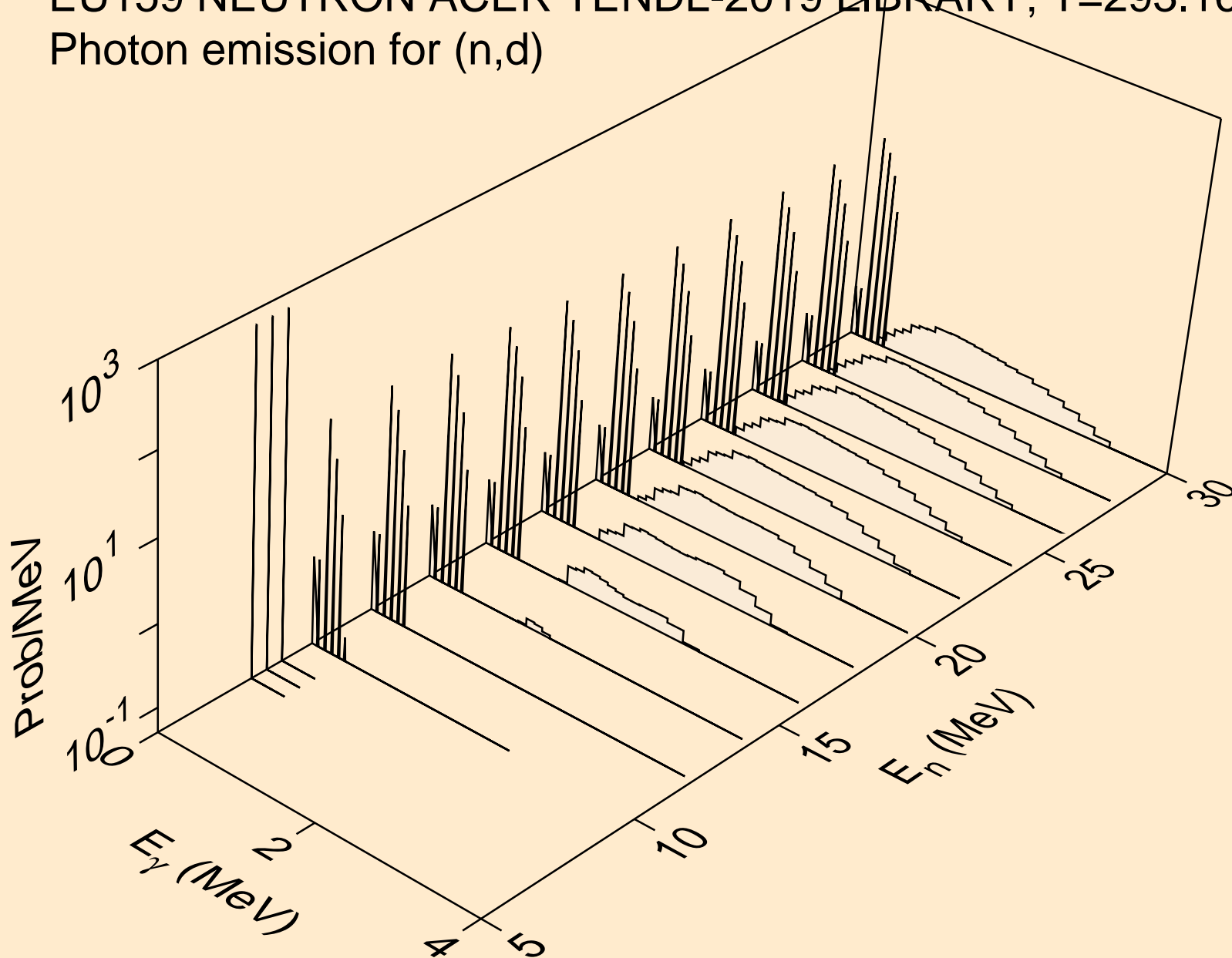
EU159 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,gma)



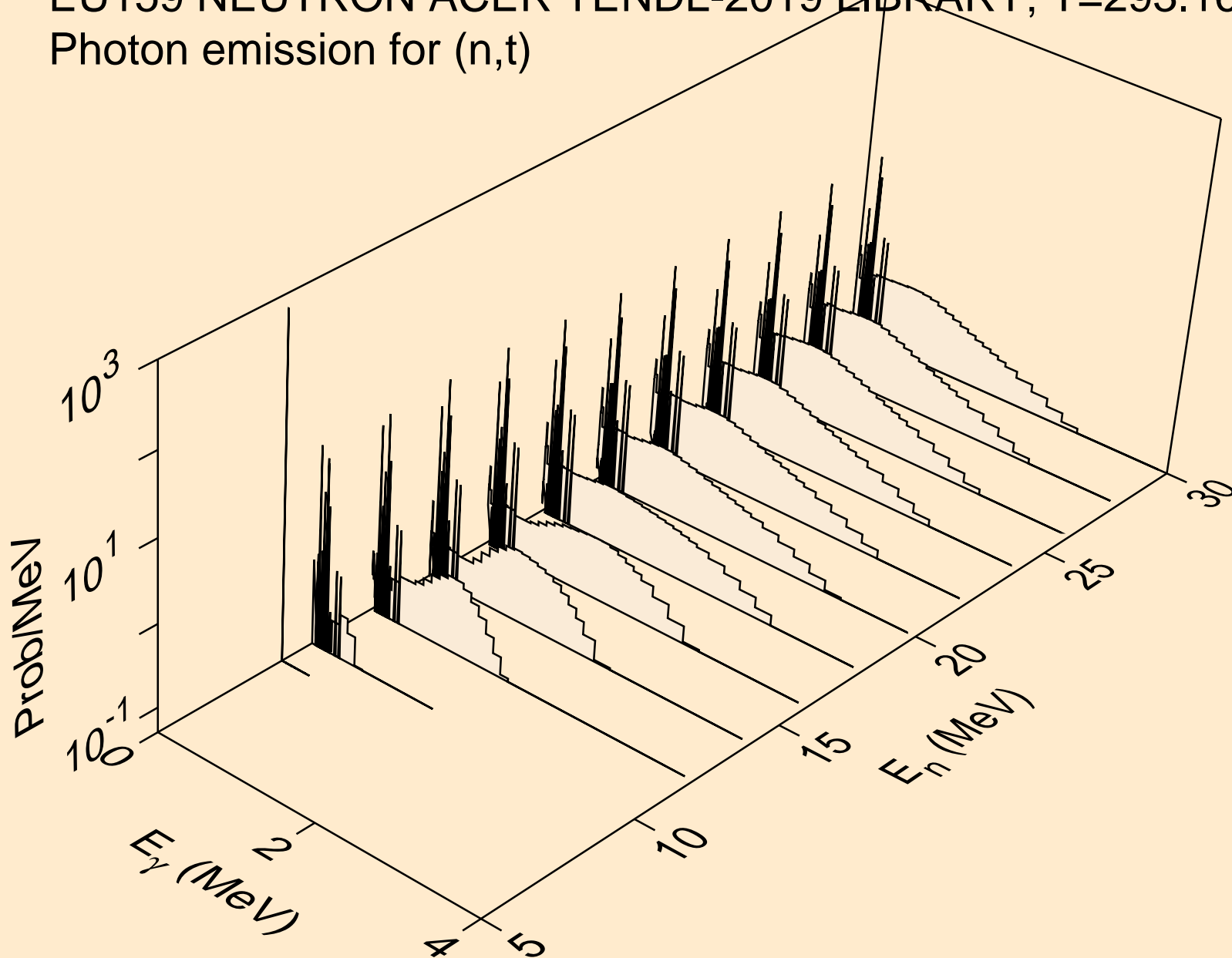
EU159 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,p)



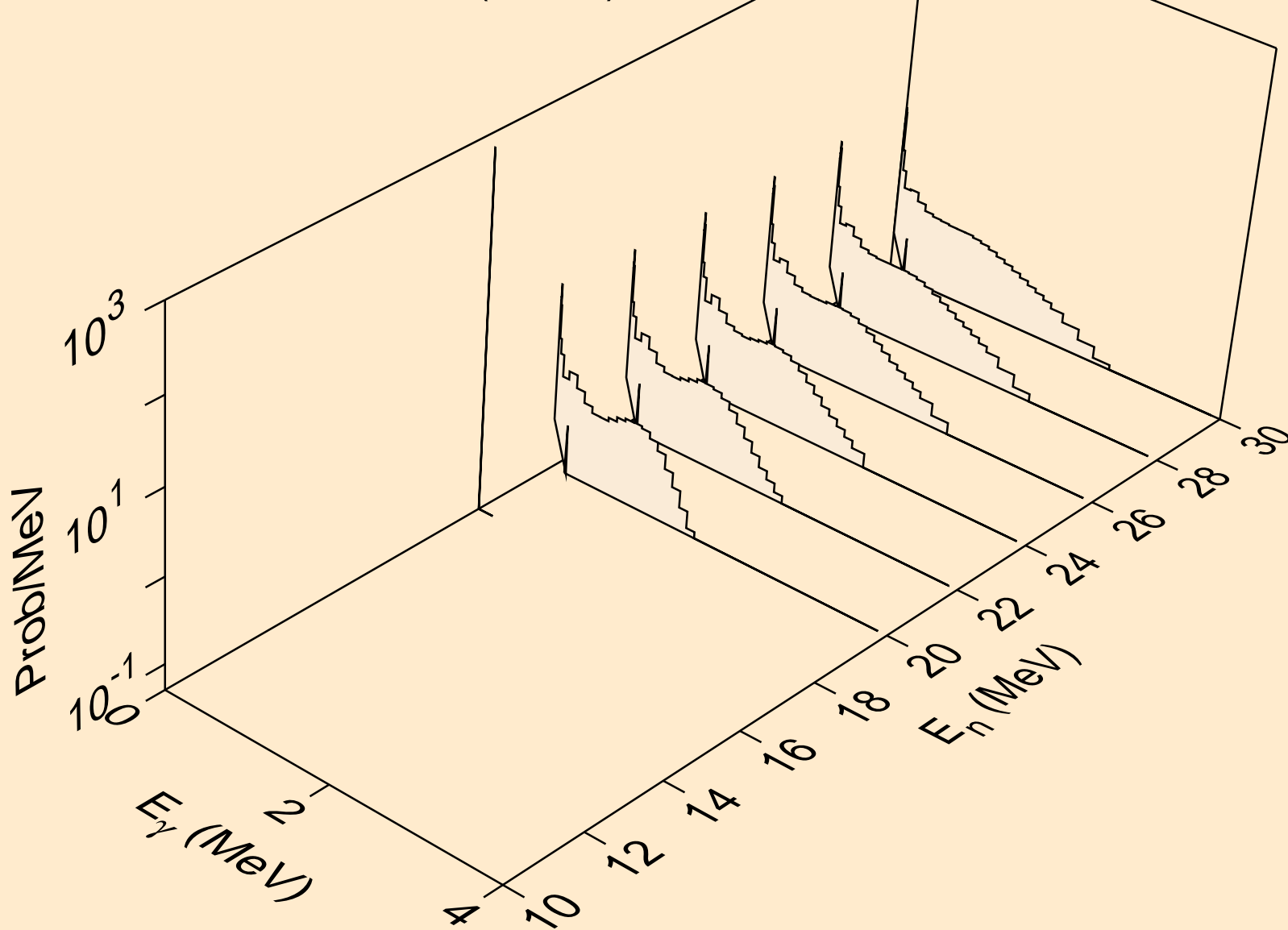
EU159 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,d)



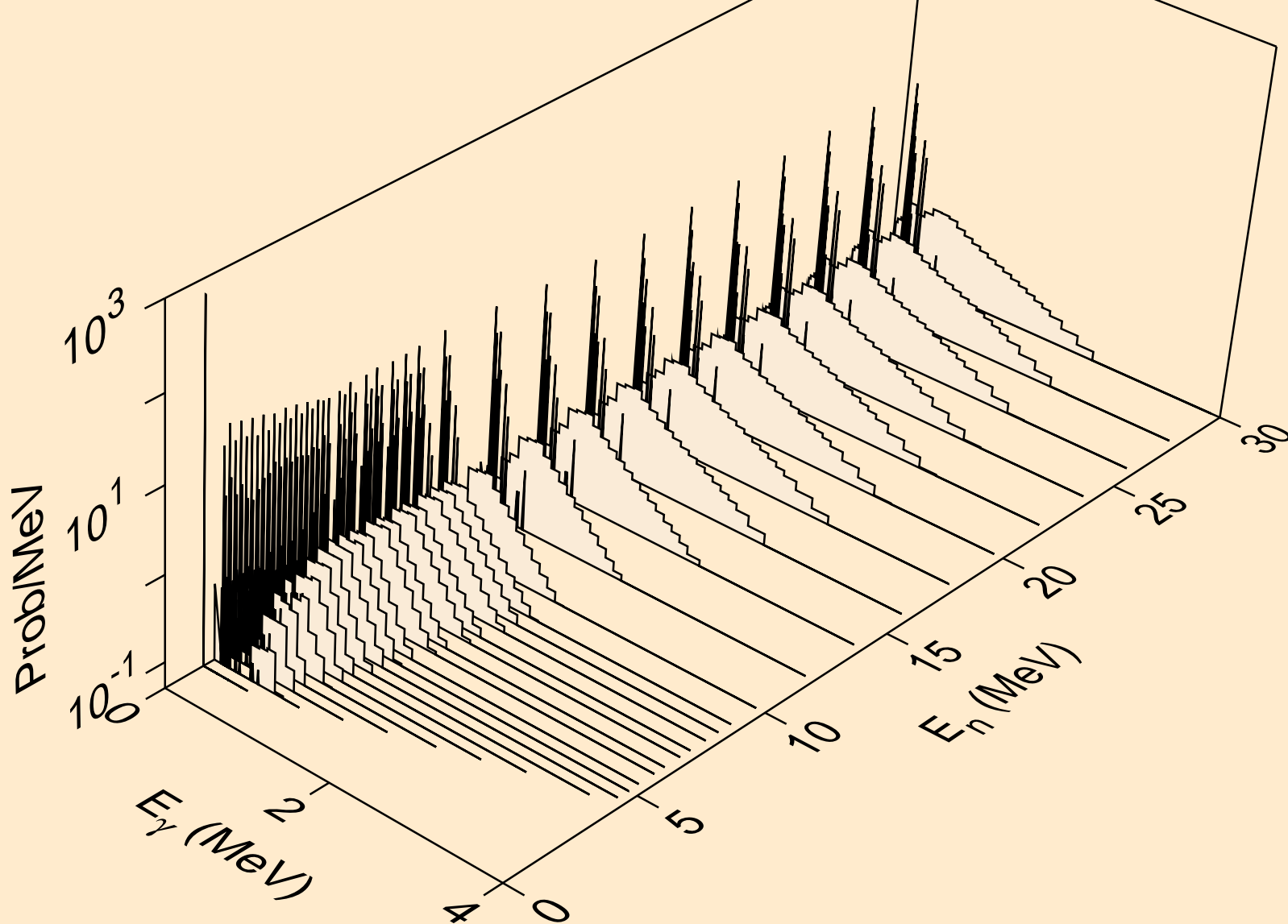
EU159 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,t)



EU159 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,he3)

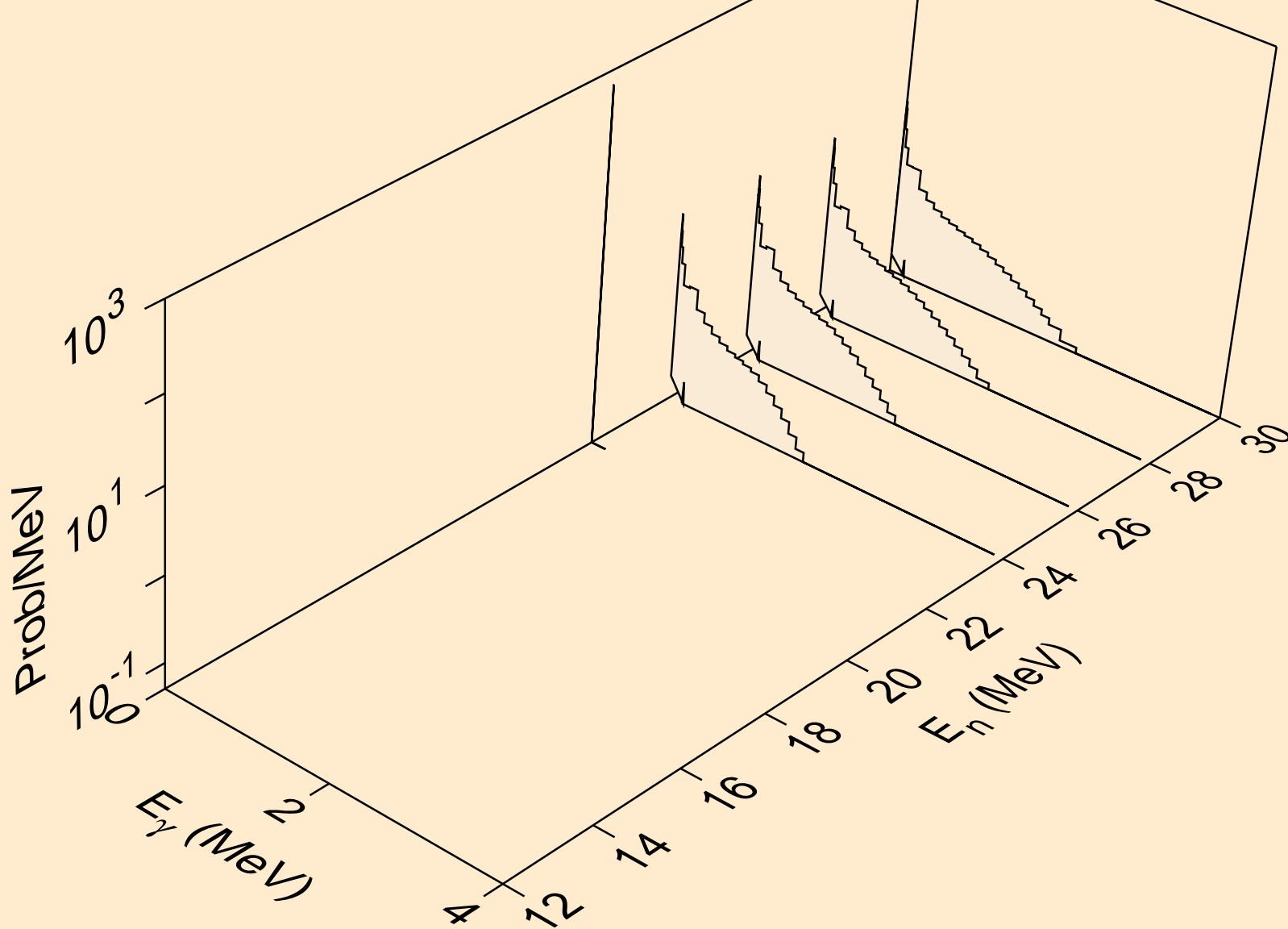


EU159 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,a)

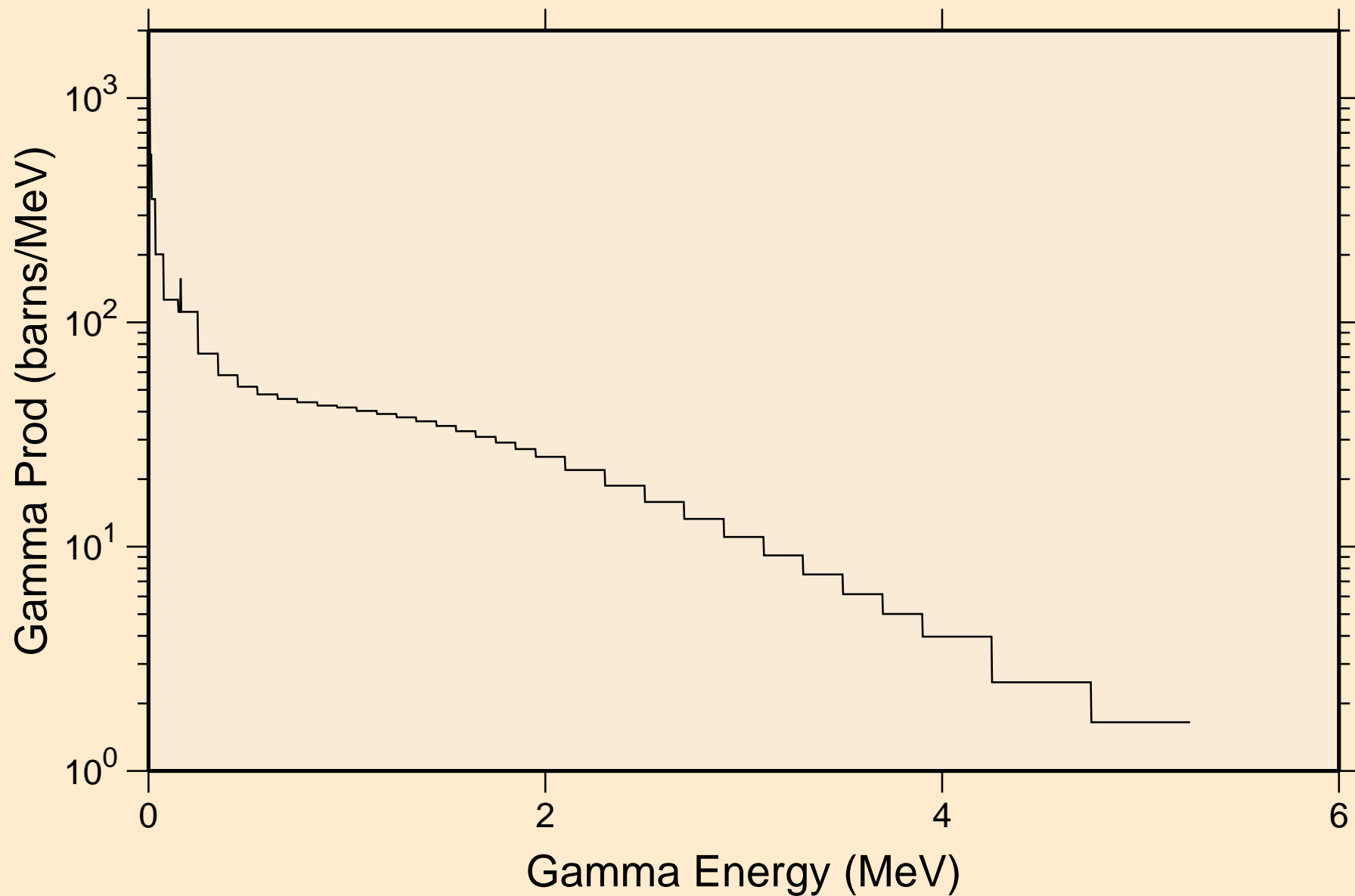




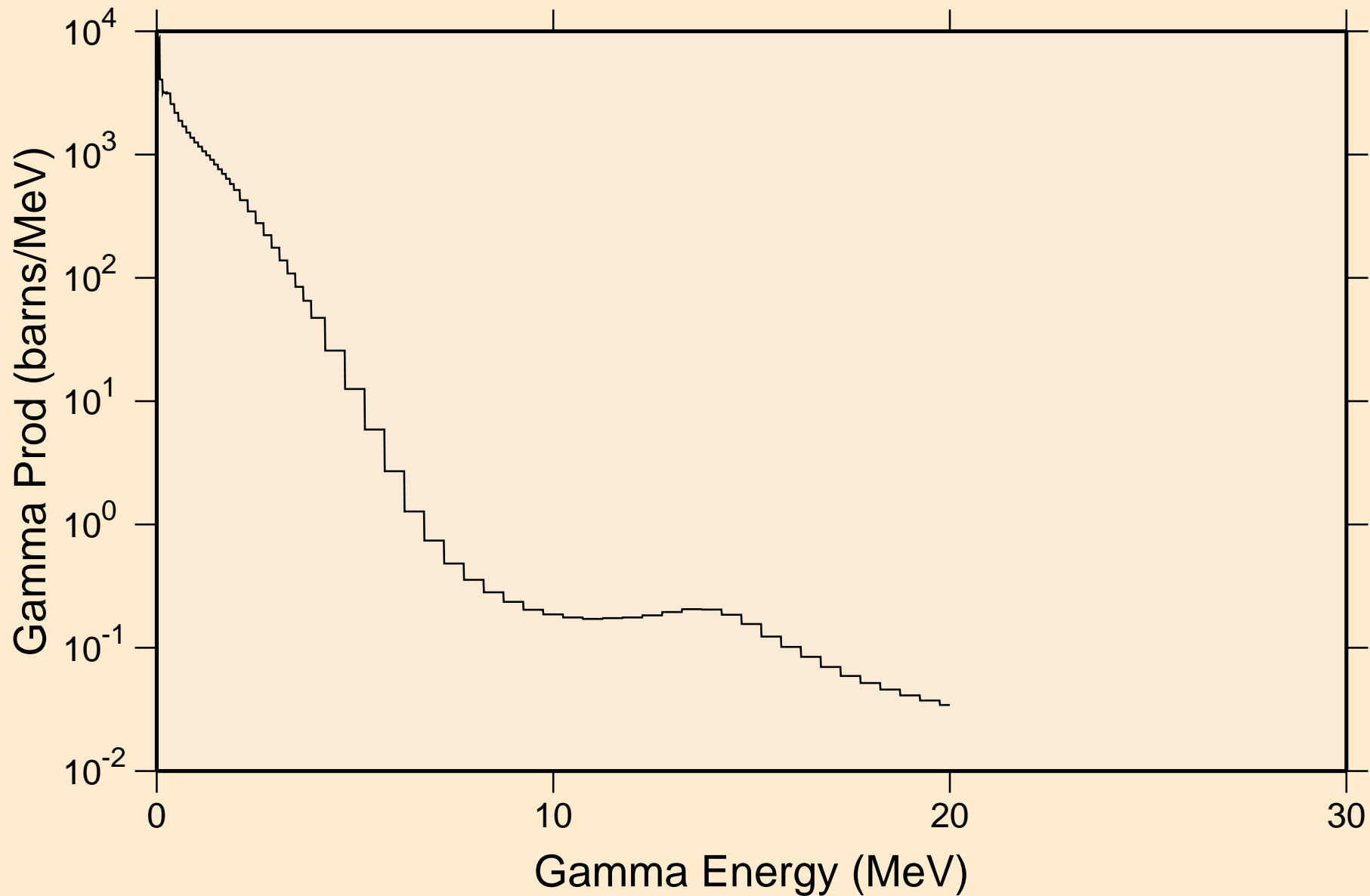
EU159 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,2p)



EU159 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
thermal capture photon spectrum

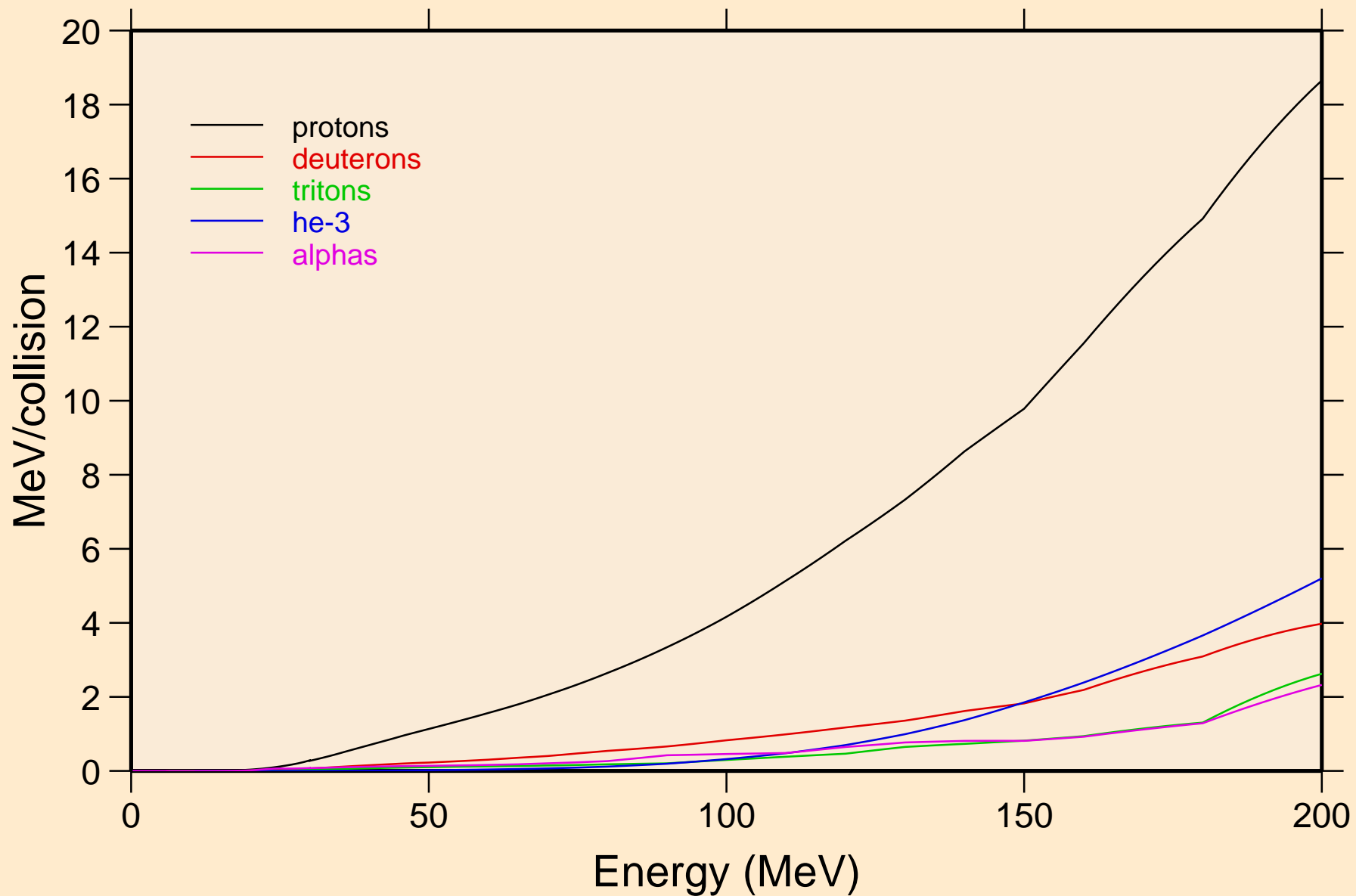


EU159 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
14 MeV photon spectrum

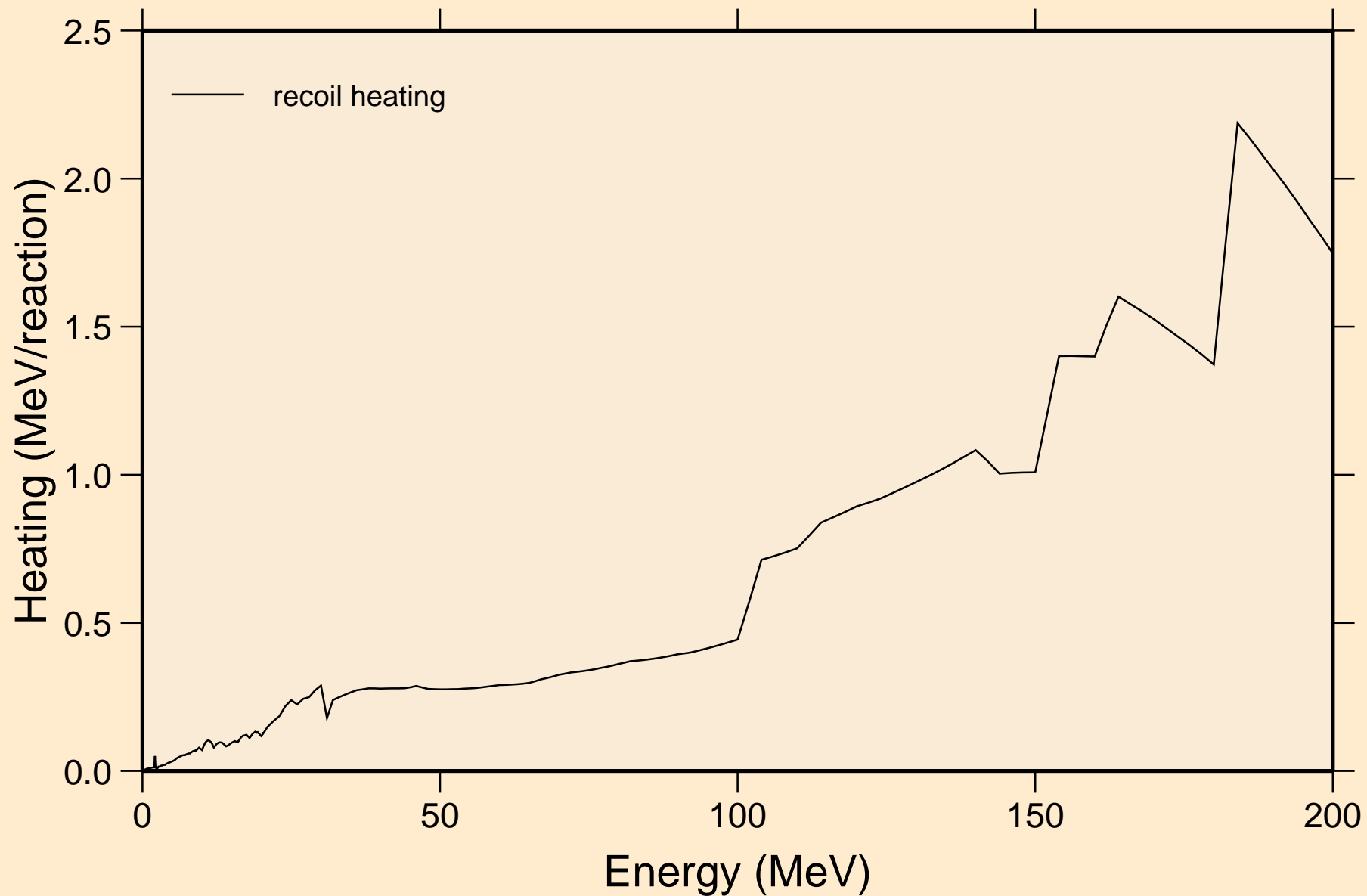


# EU159 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K

## Particle heating contributions

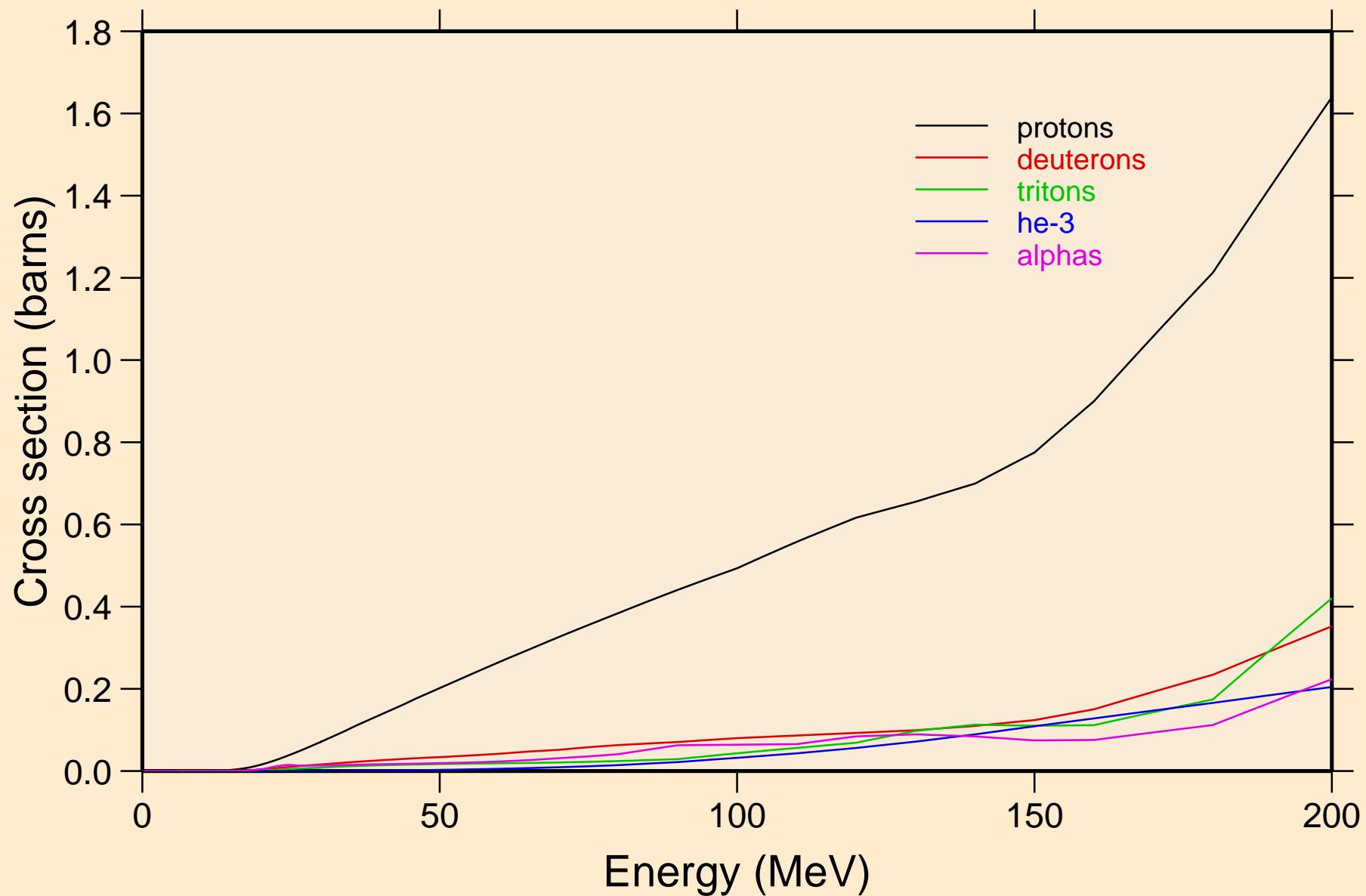


EU159 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Recoil Heating

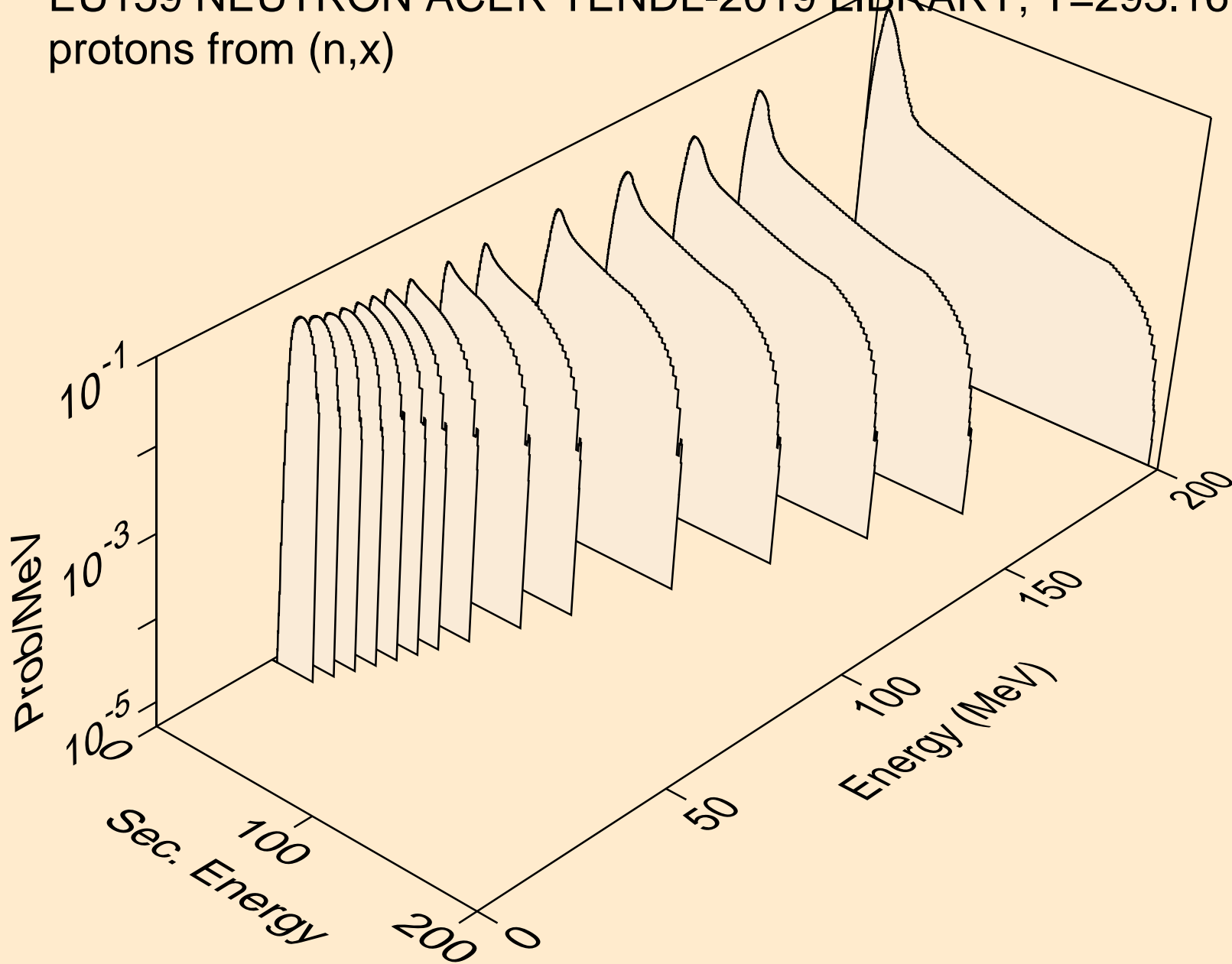


# EU159 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K

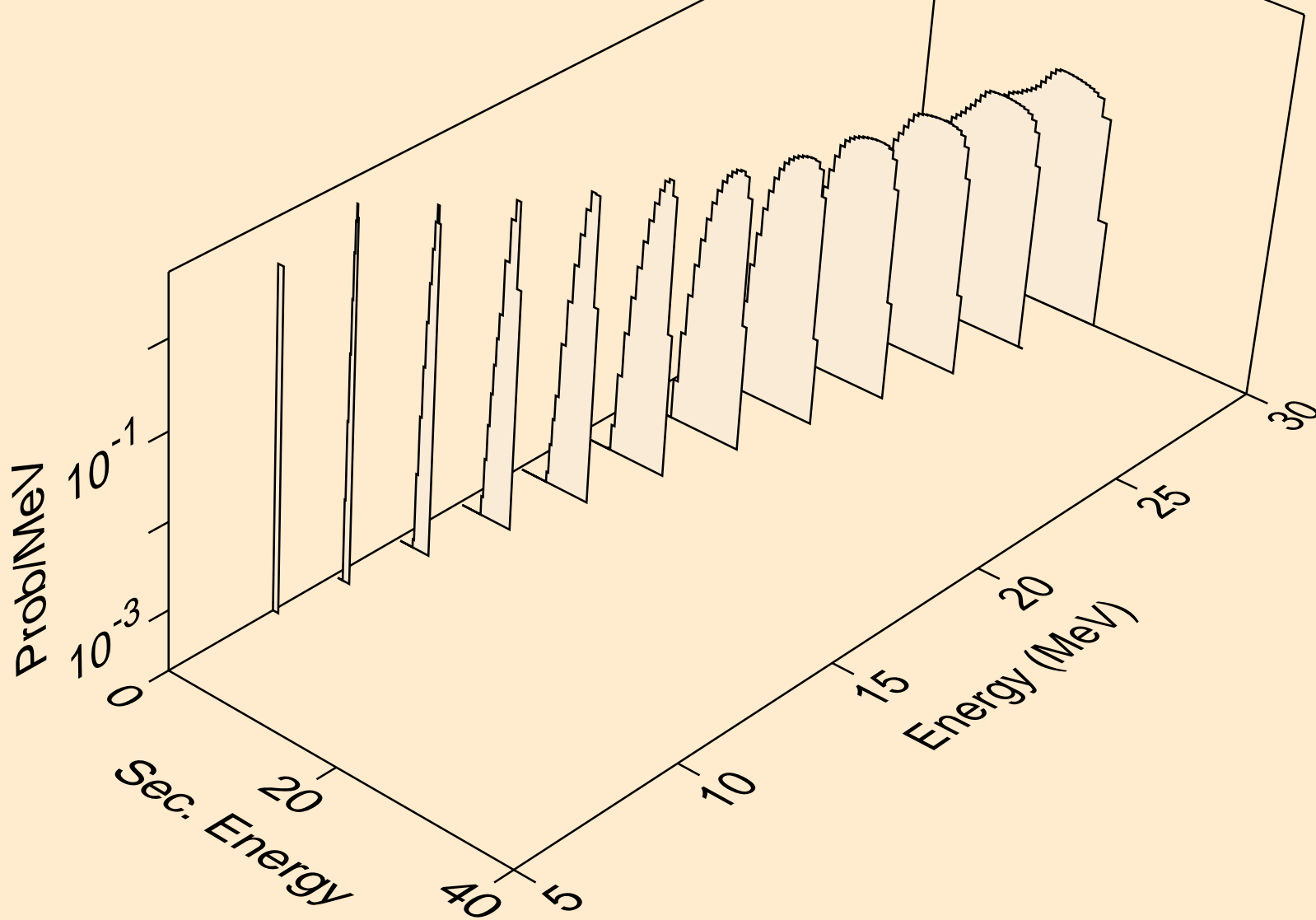
## Particle production cross sections



EU159 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
protons from (n,x)

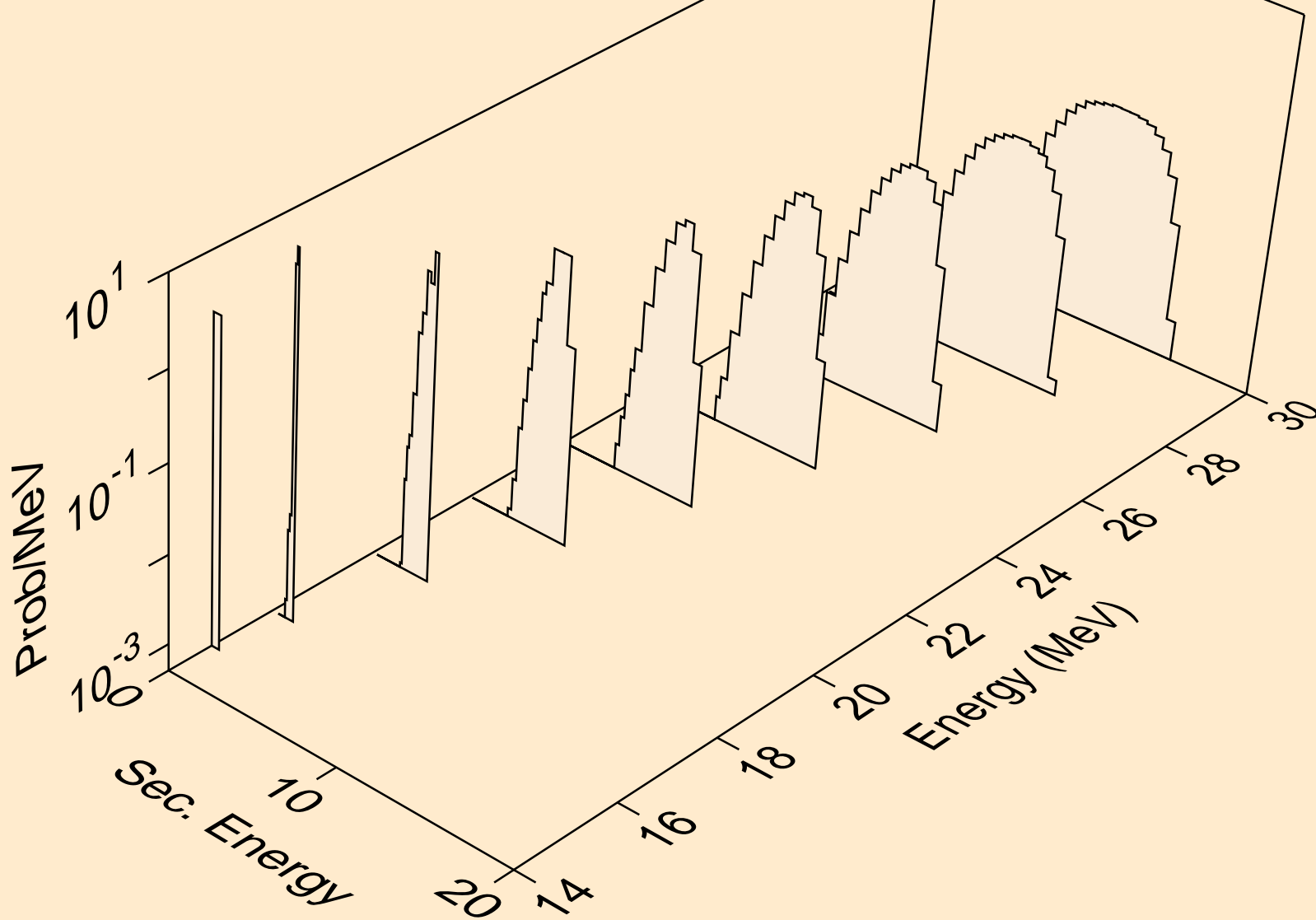


EU159 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
protons from (n,n\*)p

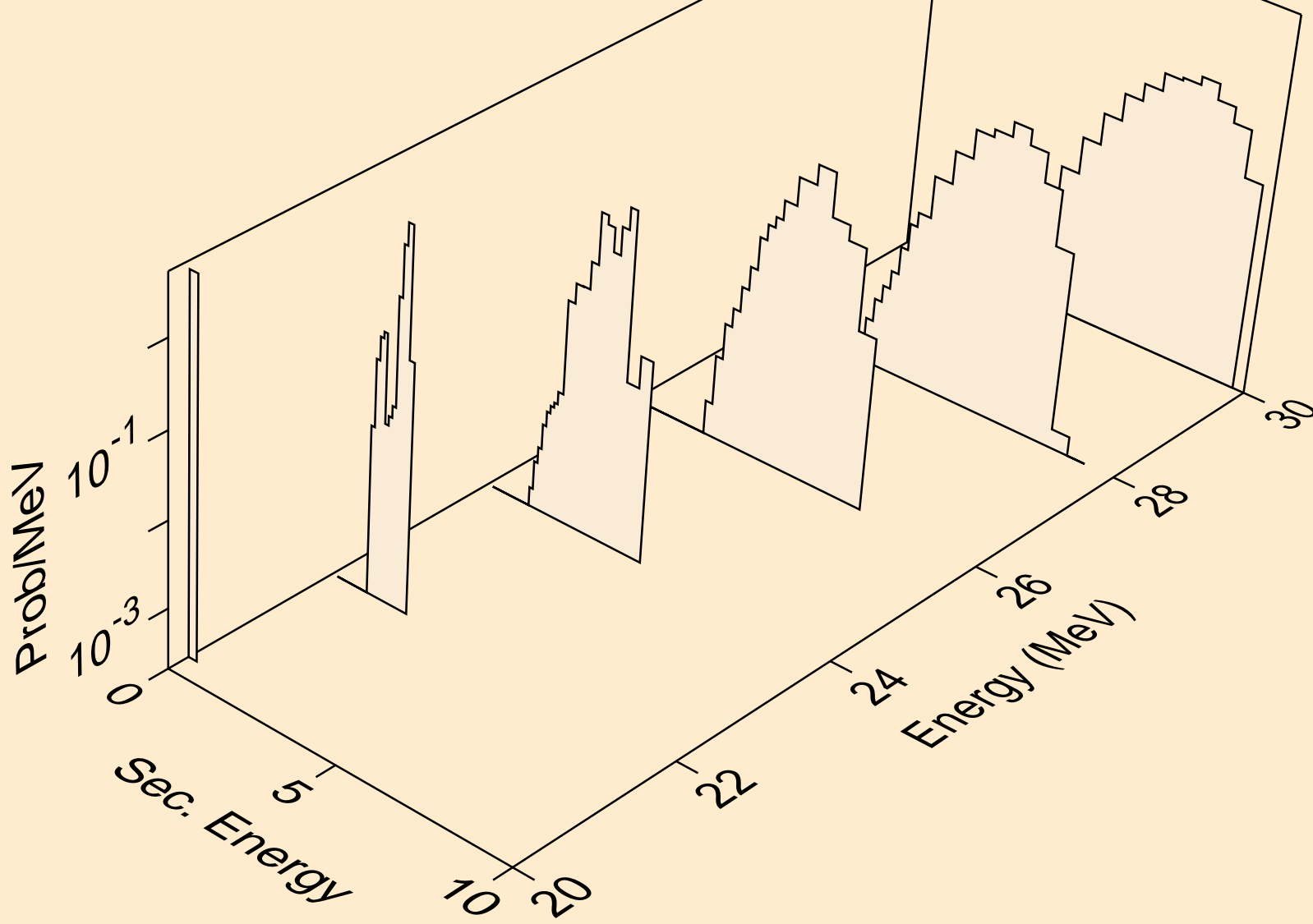




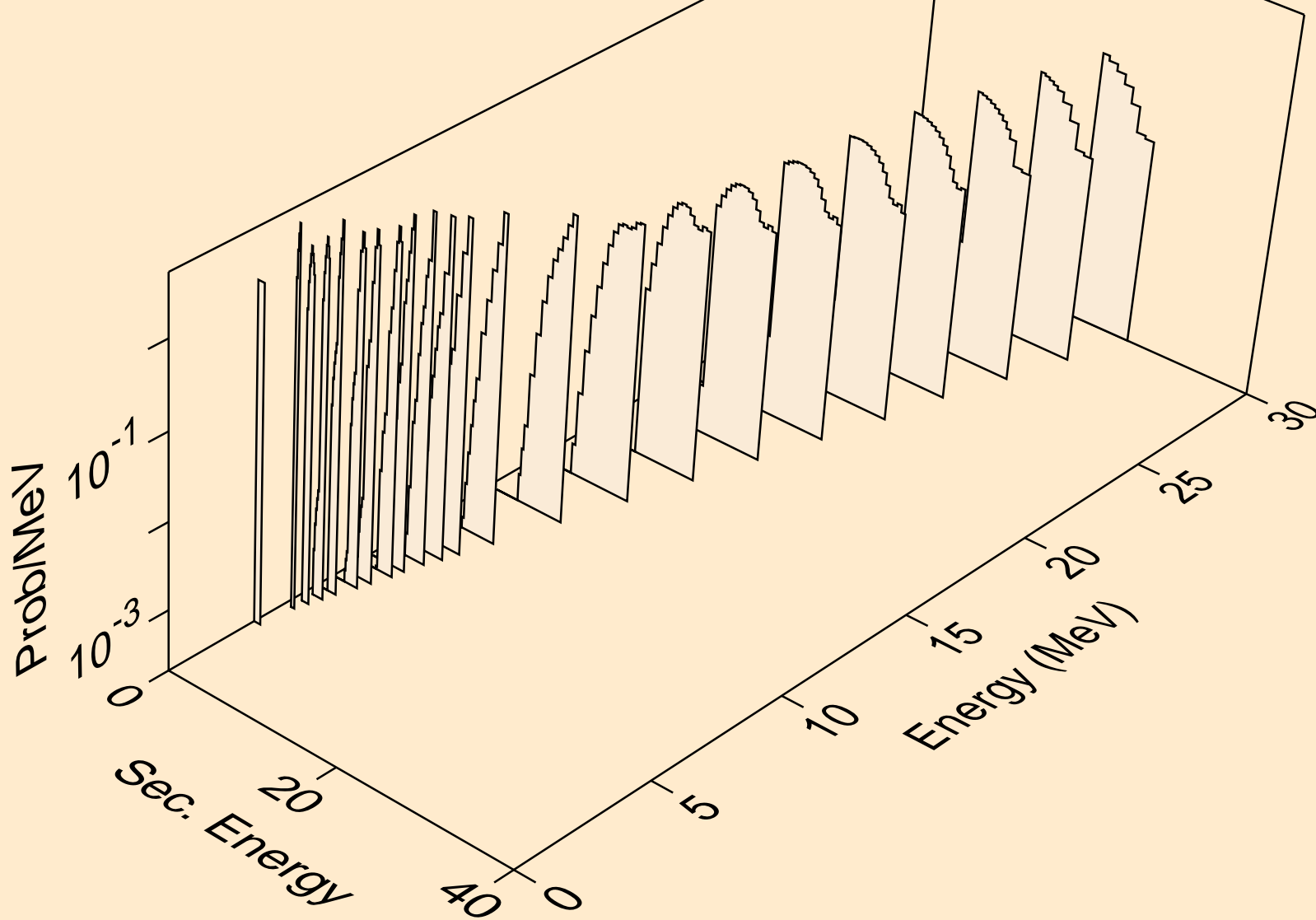
EU159 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
protons from (n,2np)



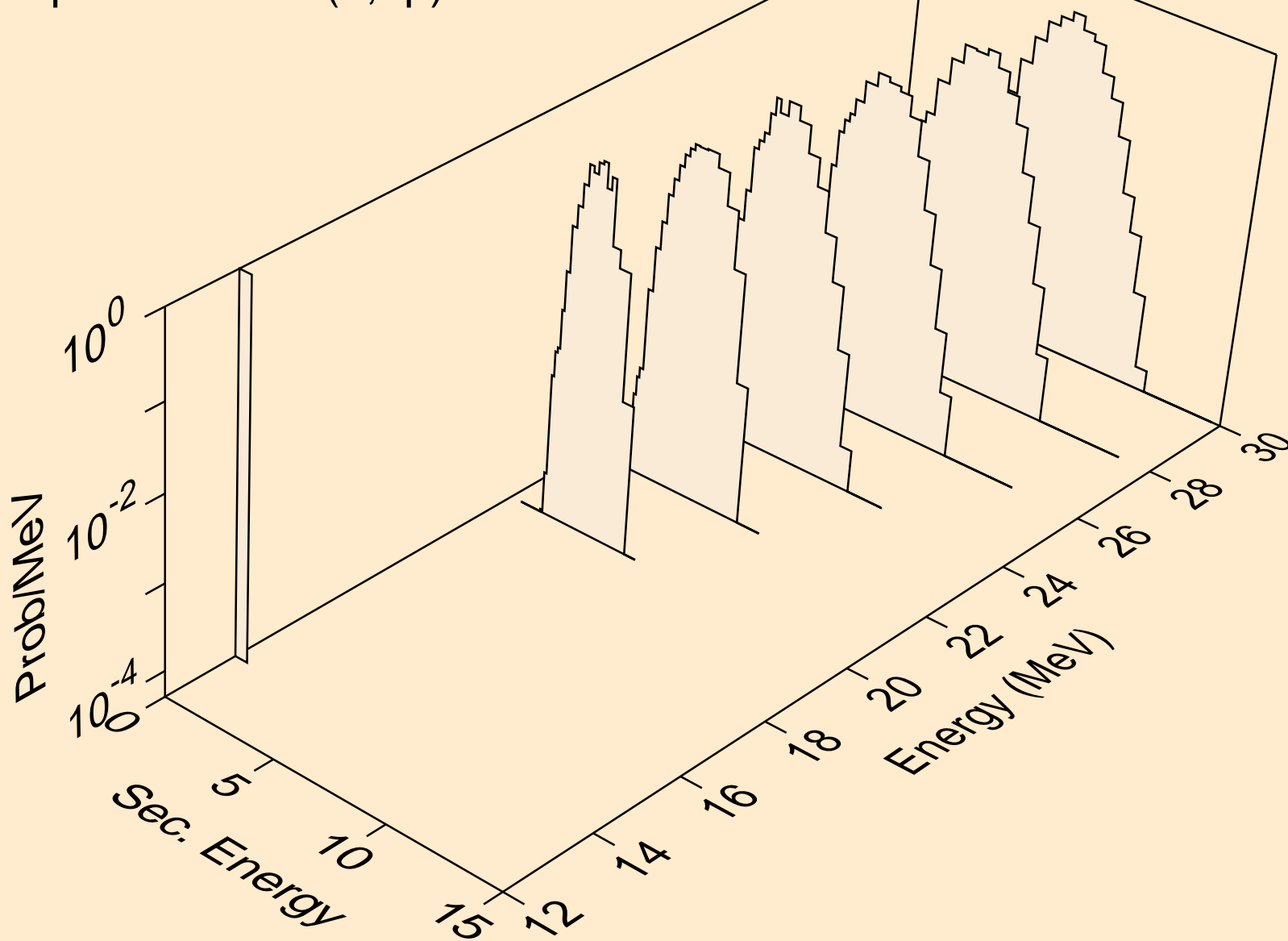
EU159 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
protons from (n,3np)



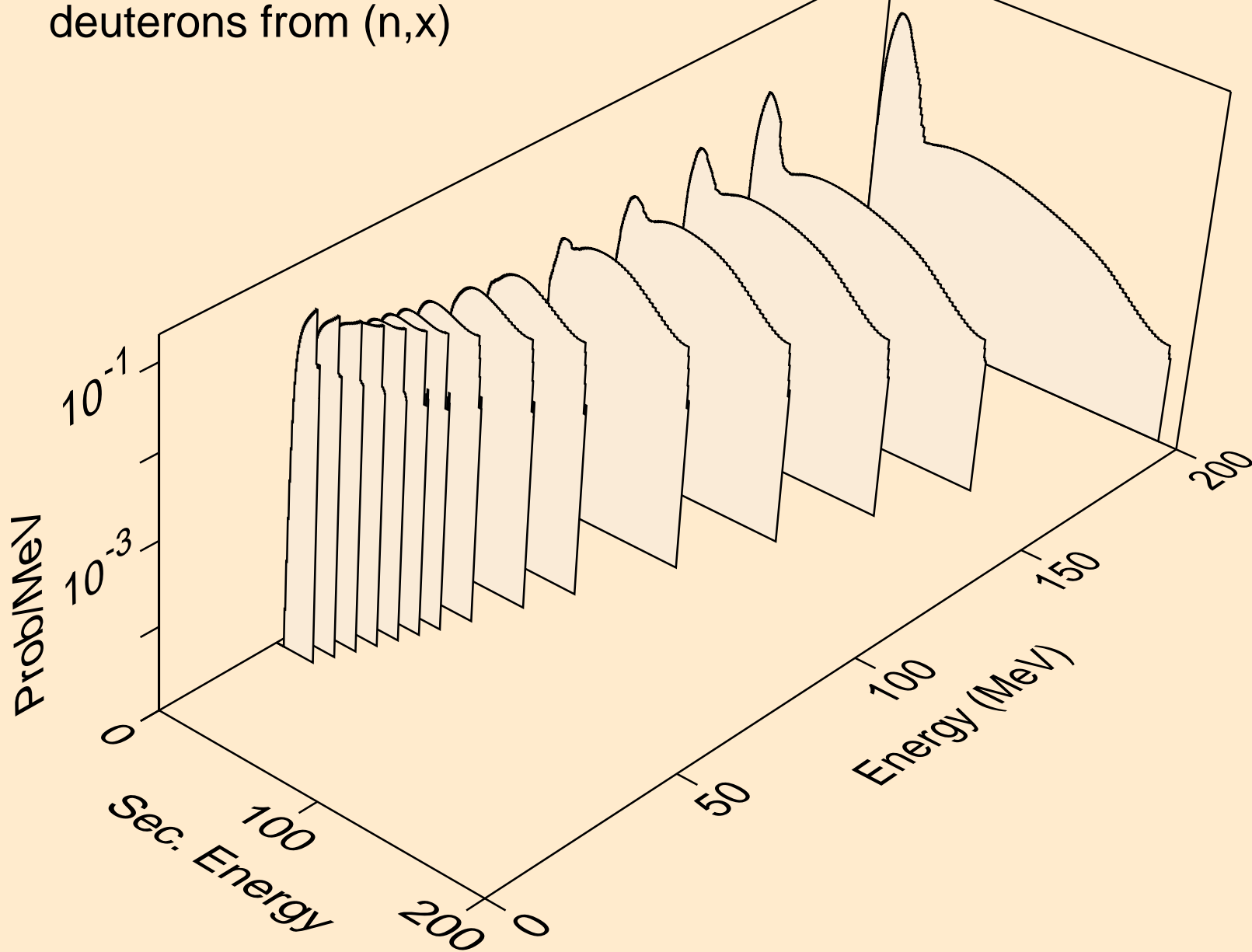
EU159 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
protons from (n,p)



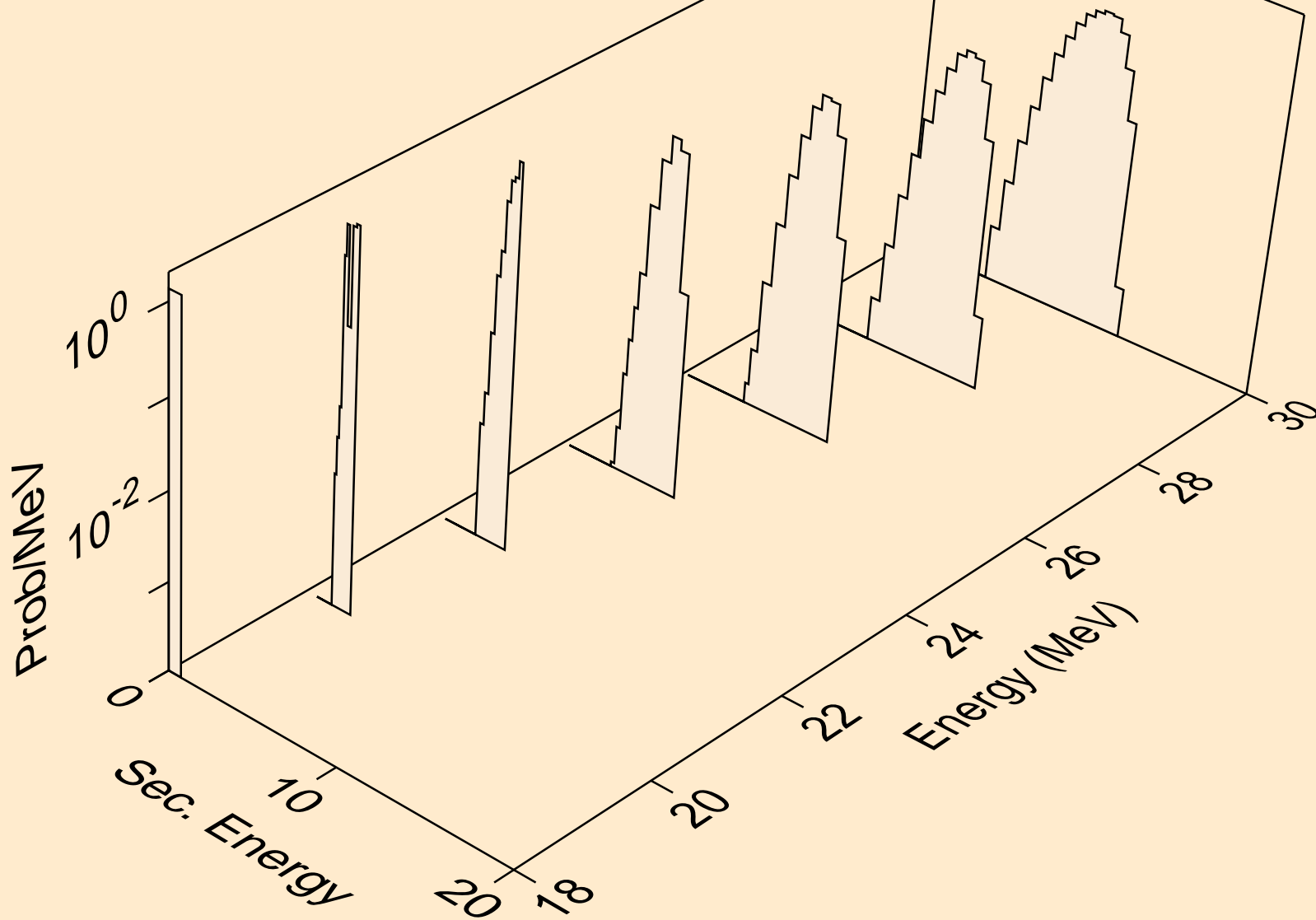
EU159 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
protons from (n,2p)



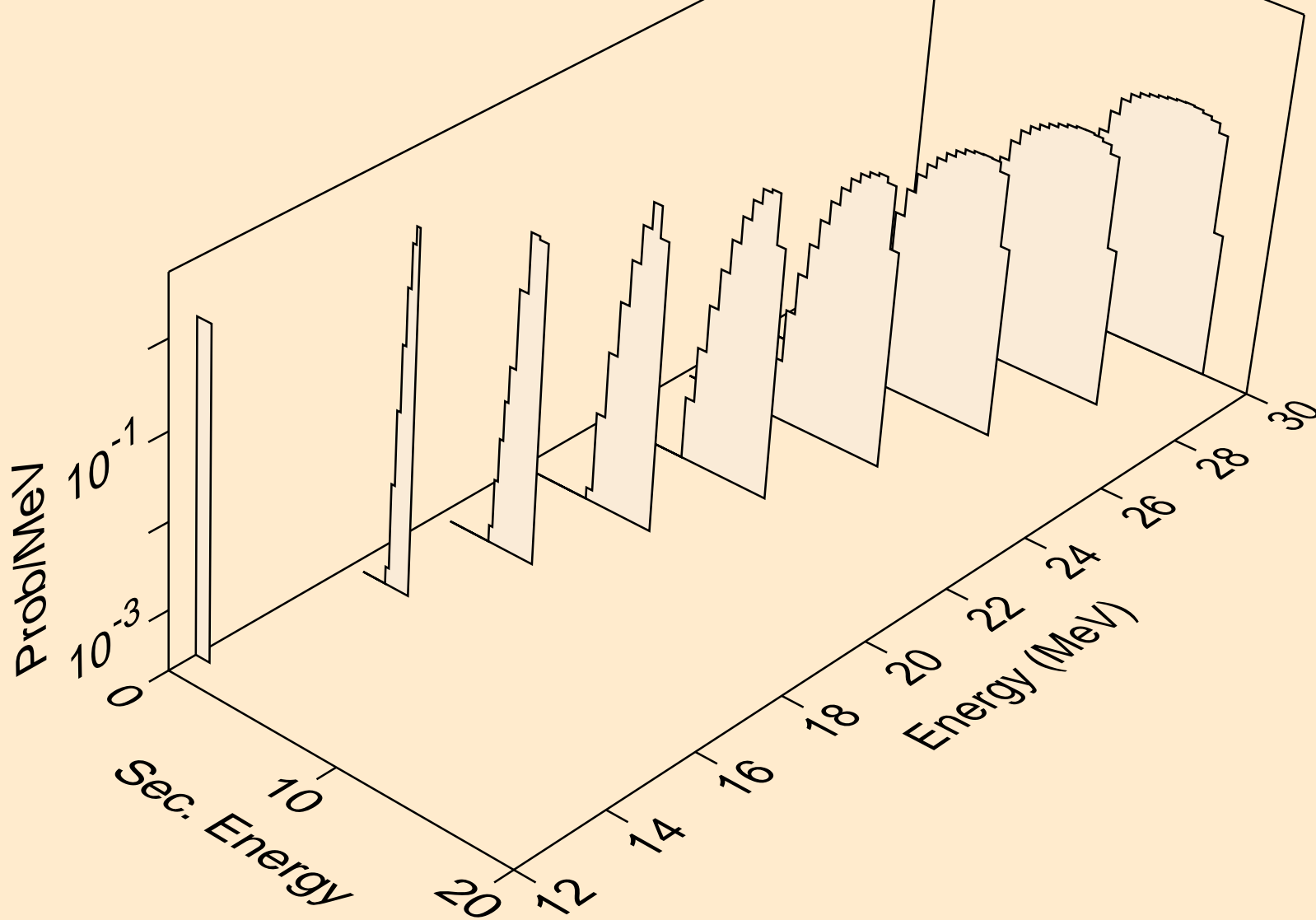
EU159 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
deuterons from (n,x)



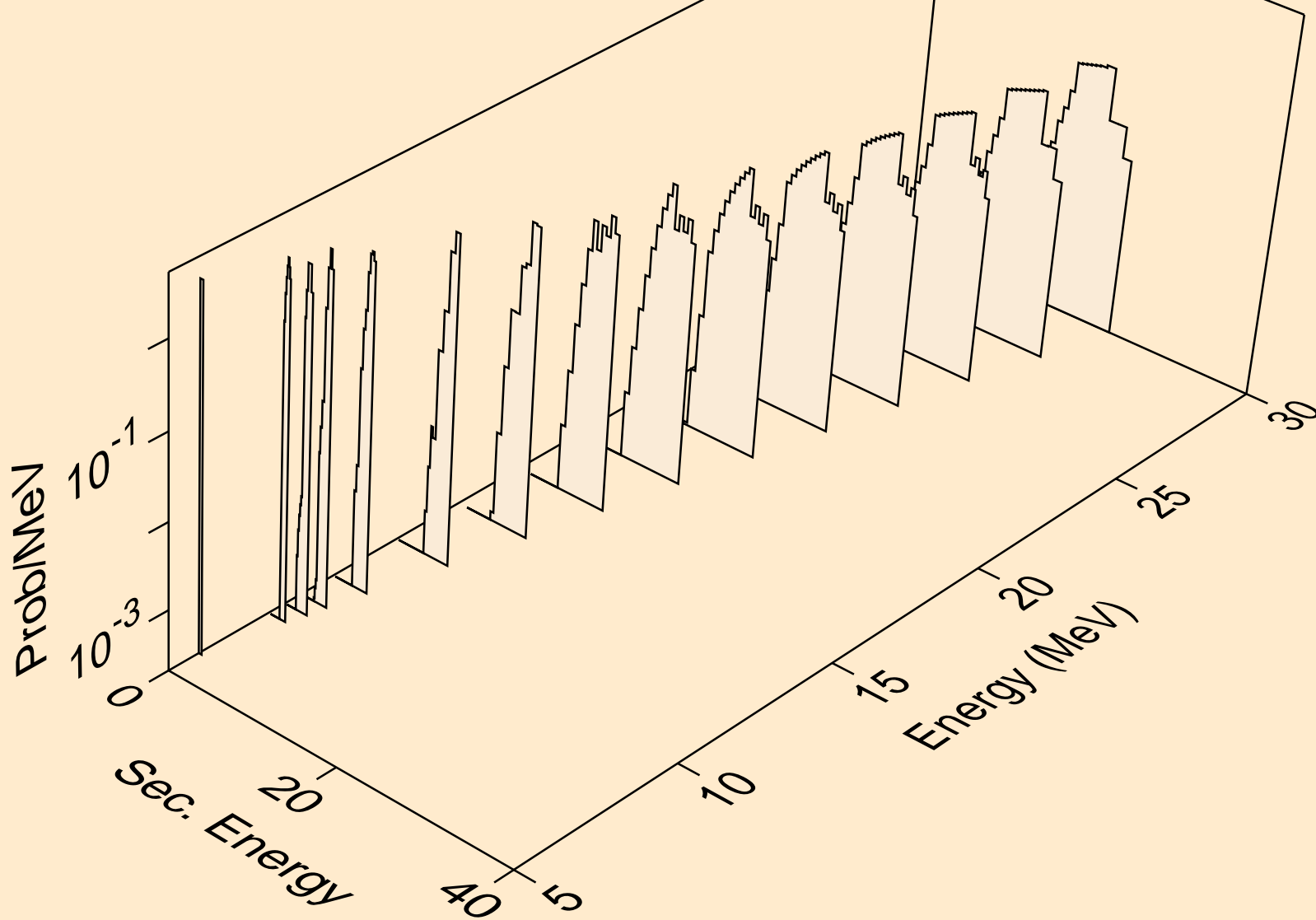
EU159 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
deuterons from (n,2nd)



EU159 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
deuterons from (n,n\*)d

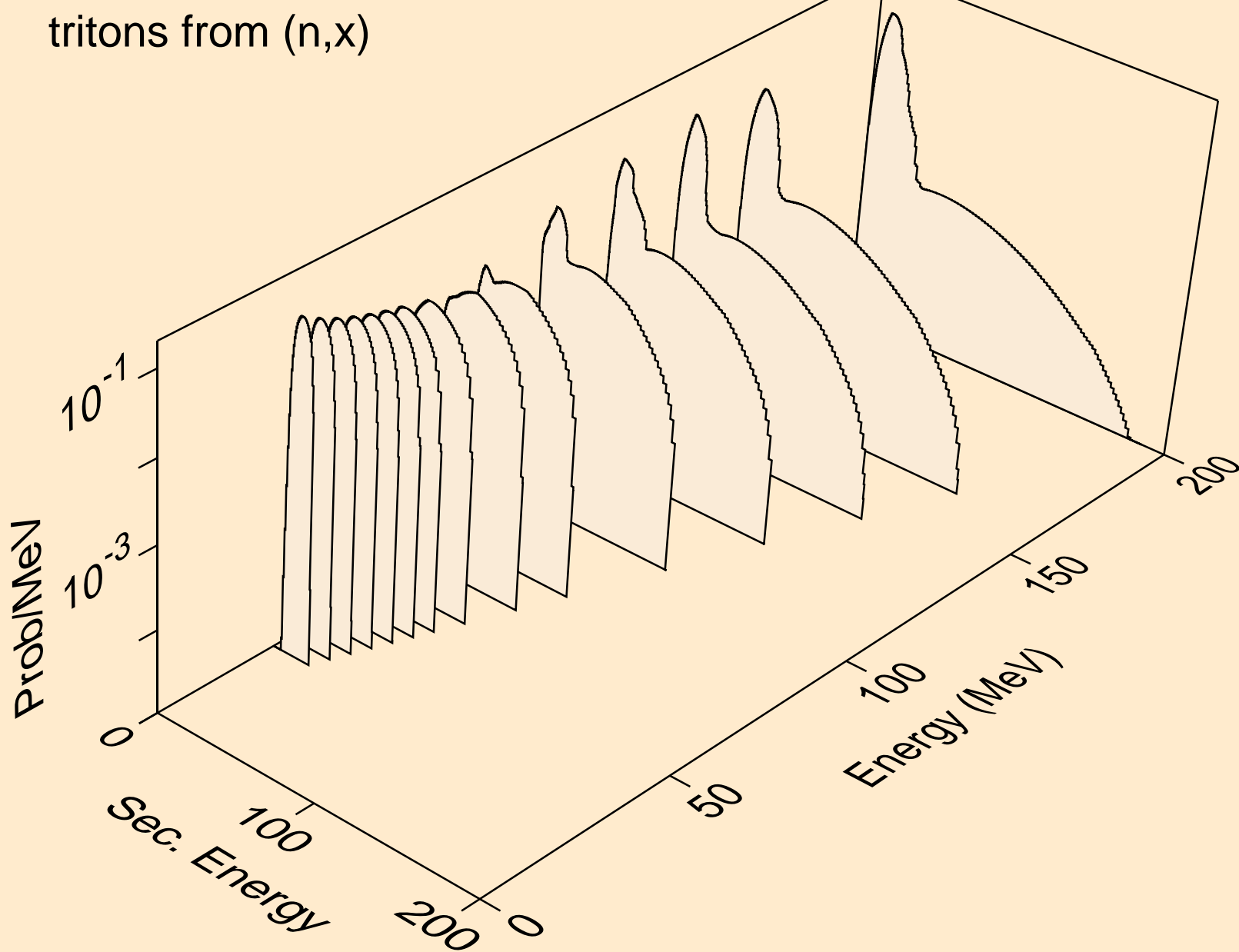


EU159 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
deuterons from (n,d)

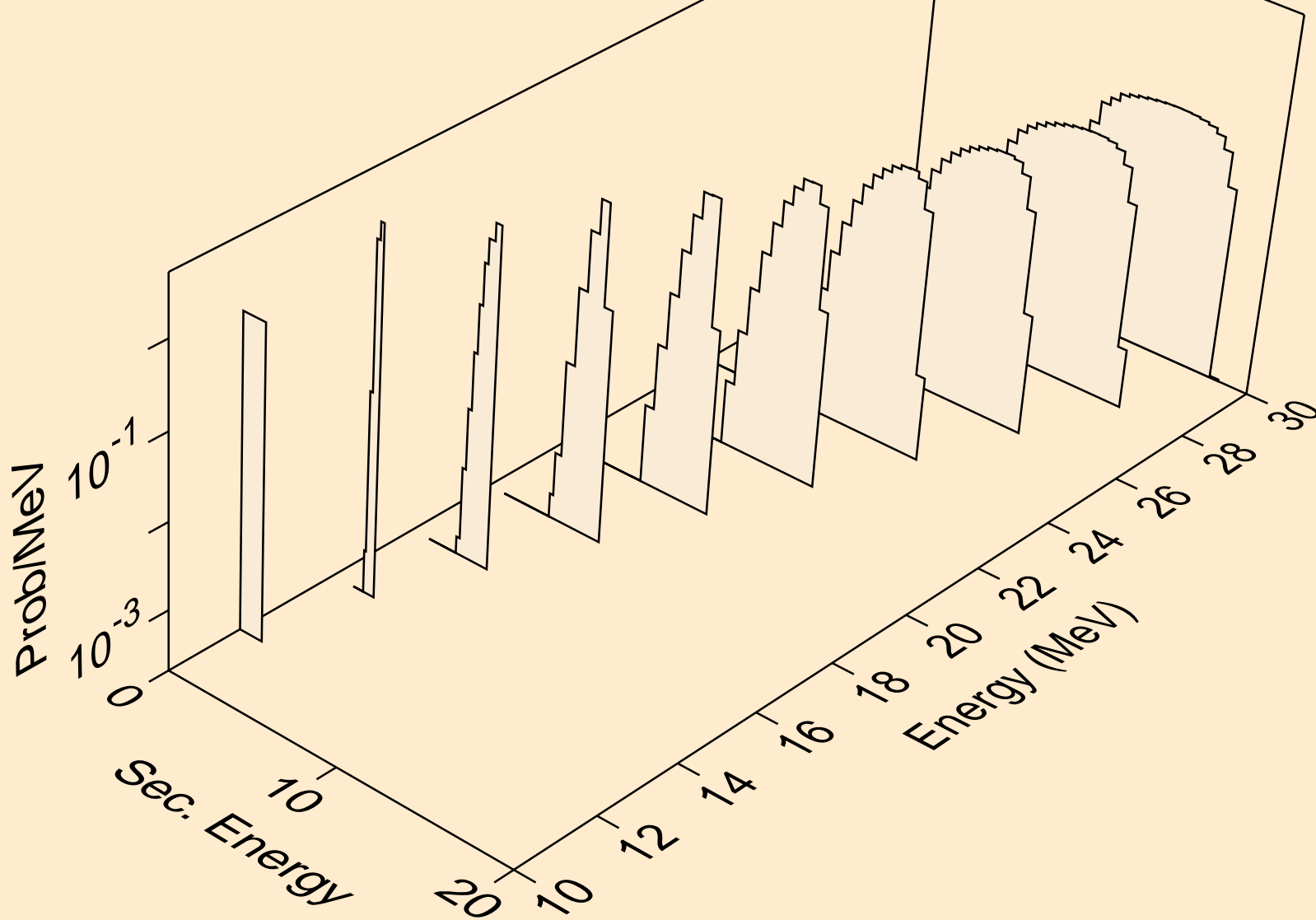




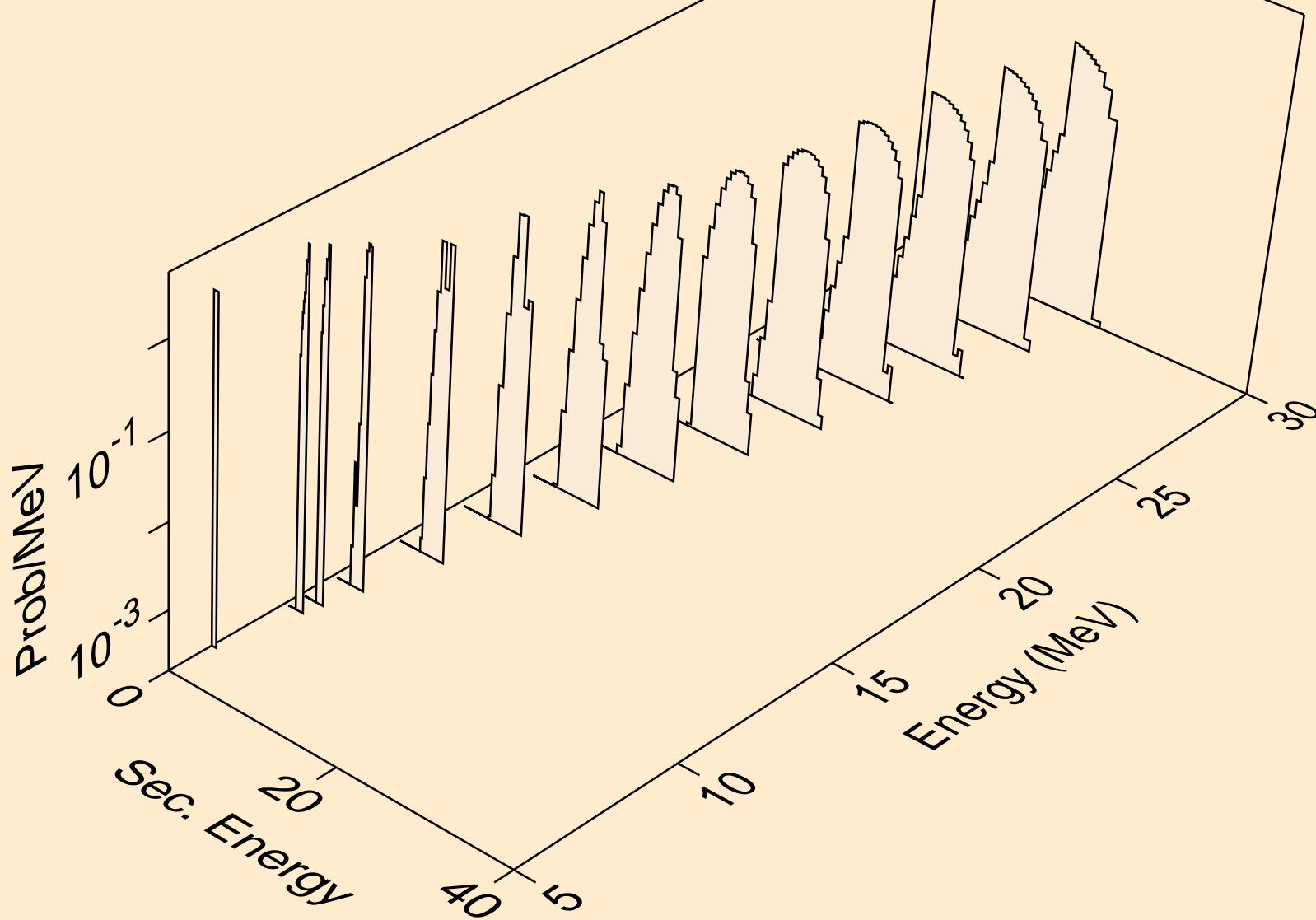
EU159 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
tritons from (n,x)



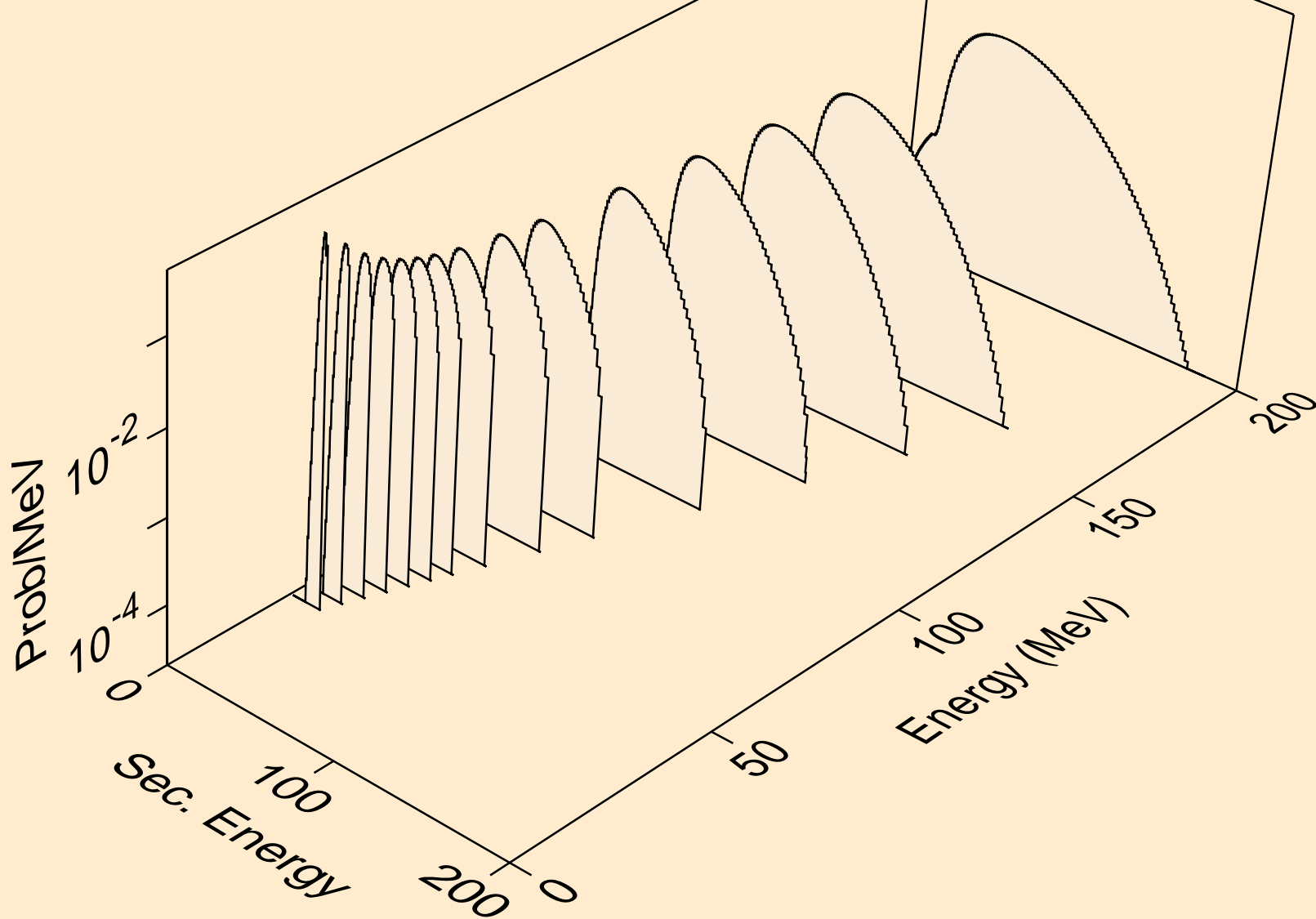
EU159 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
tritons from (n,n\*)t



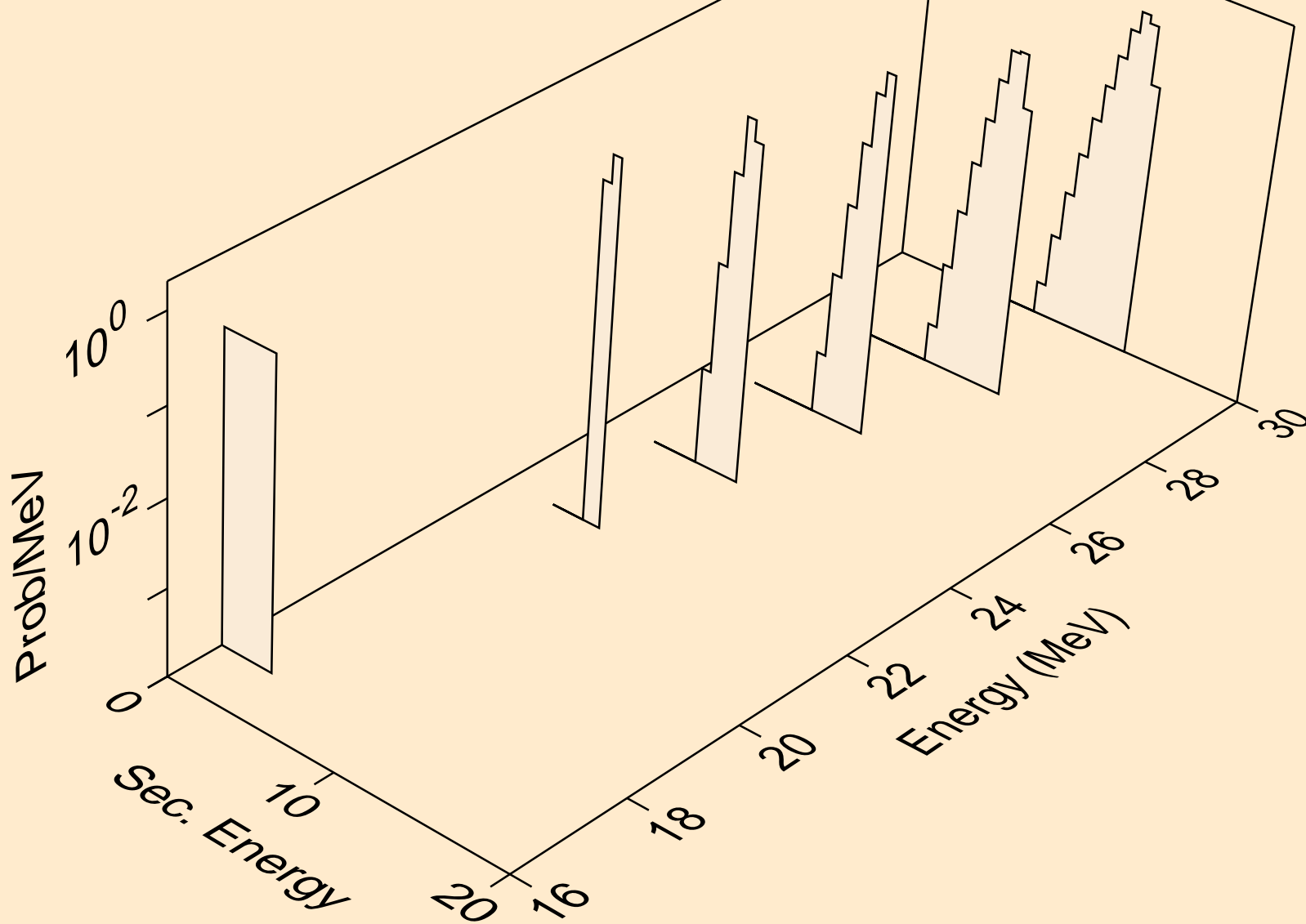
EU159 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
tritons from (n,t)



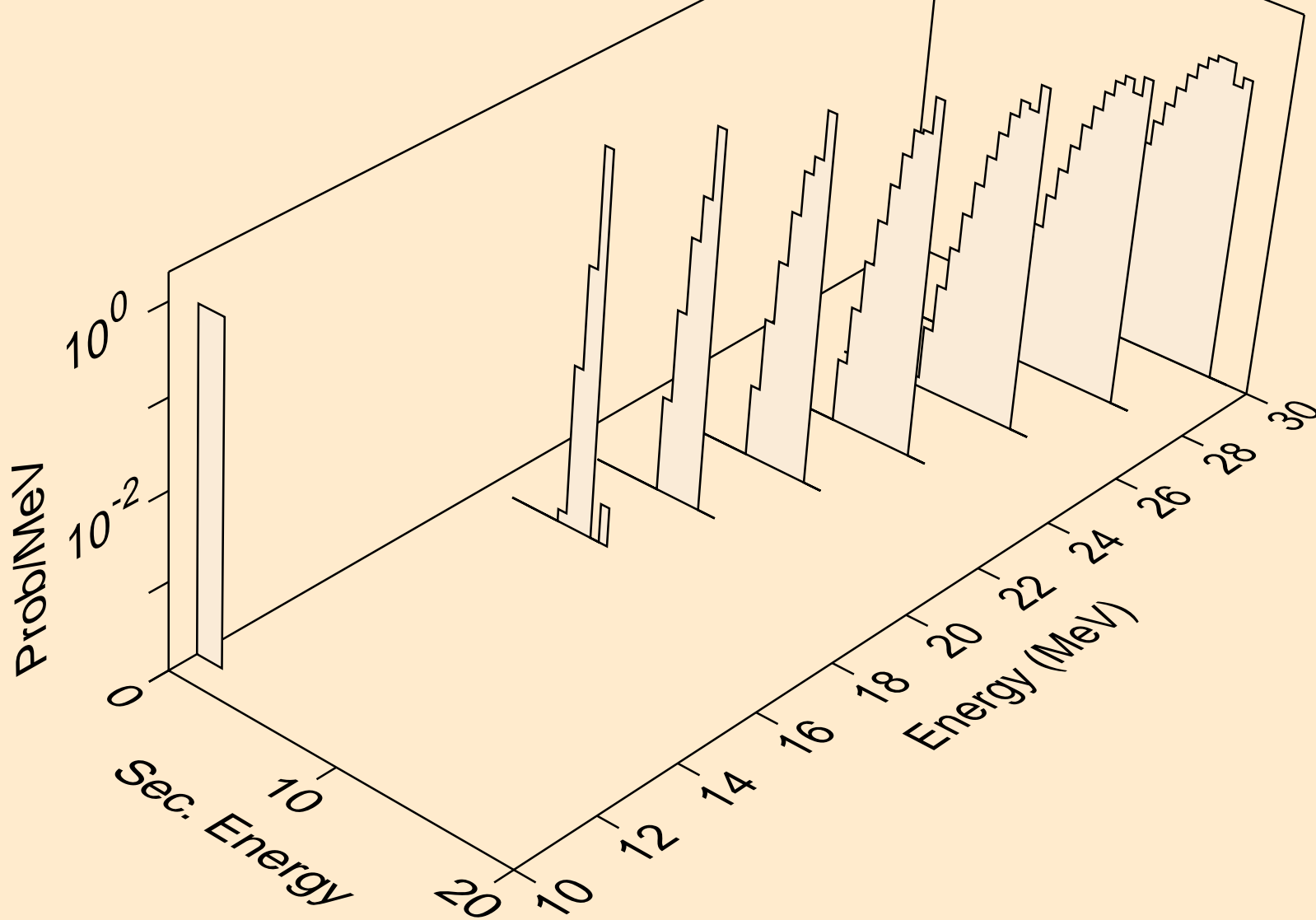
EU159 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
he3s from (n,x)



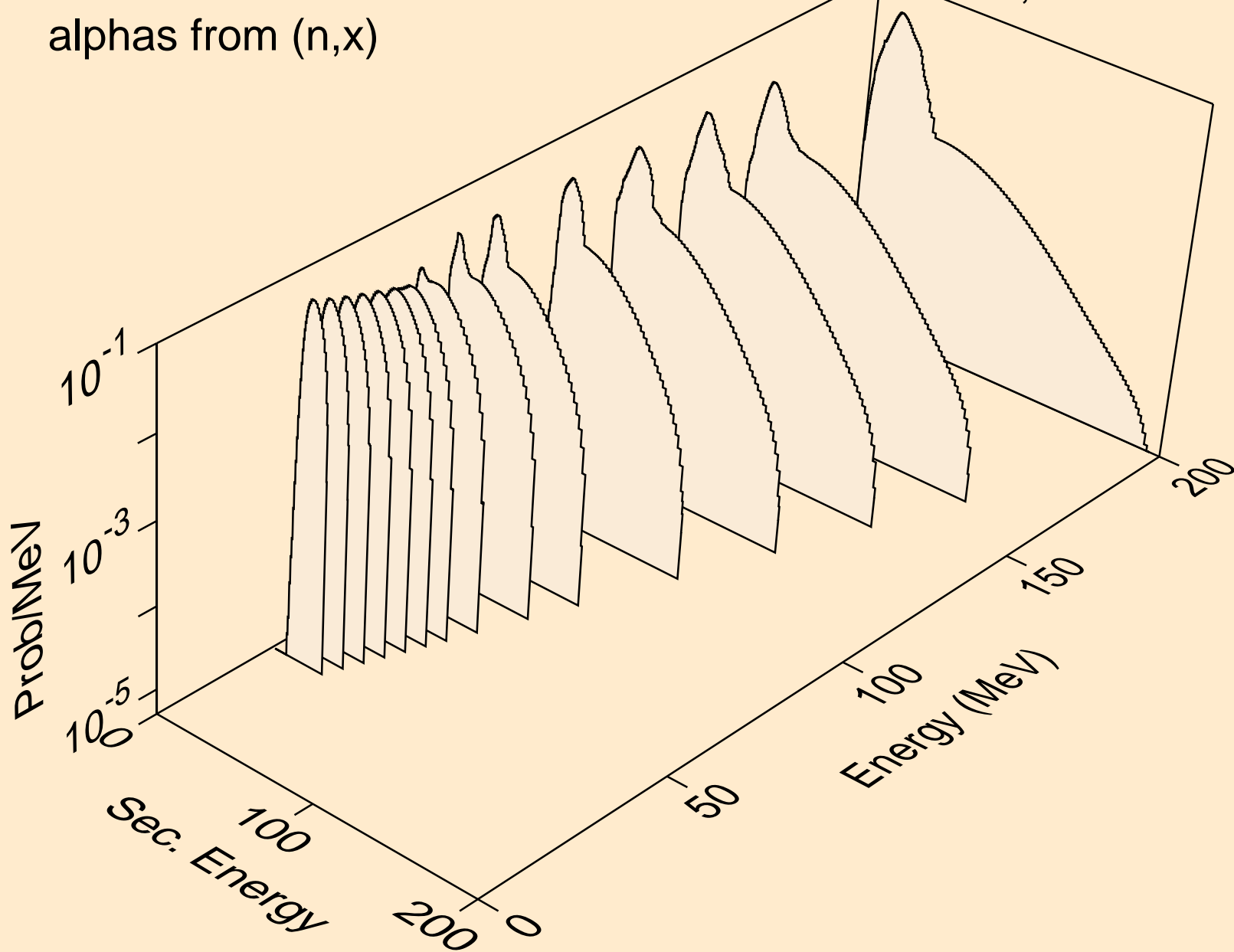
EU159 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
he3s from (n,n\*)he3



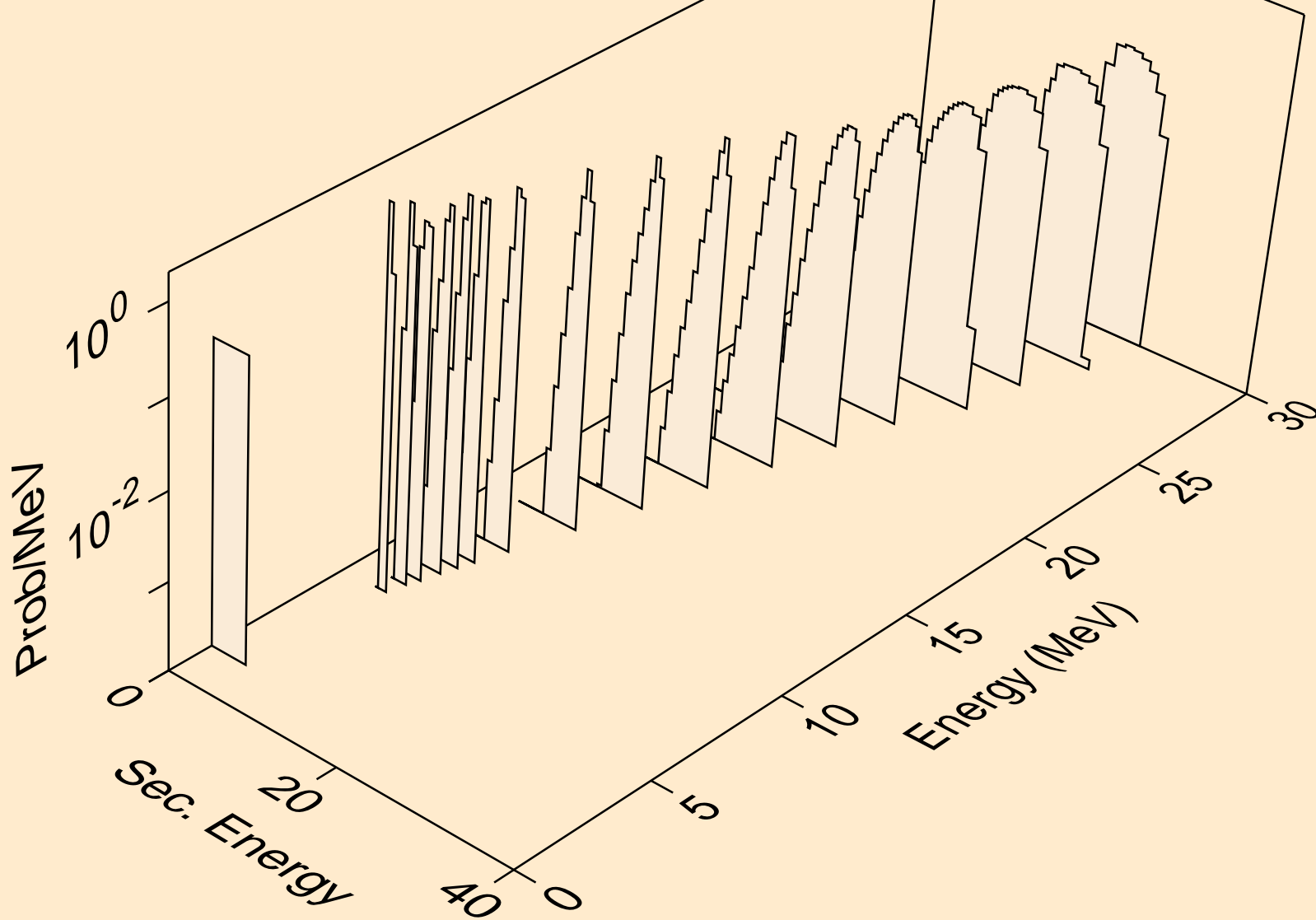
EU159 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
he3s from (n,he3)



EU159 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
alphas from (n,x)

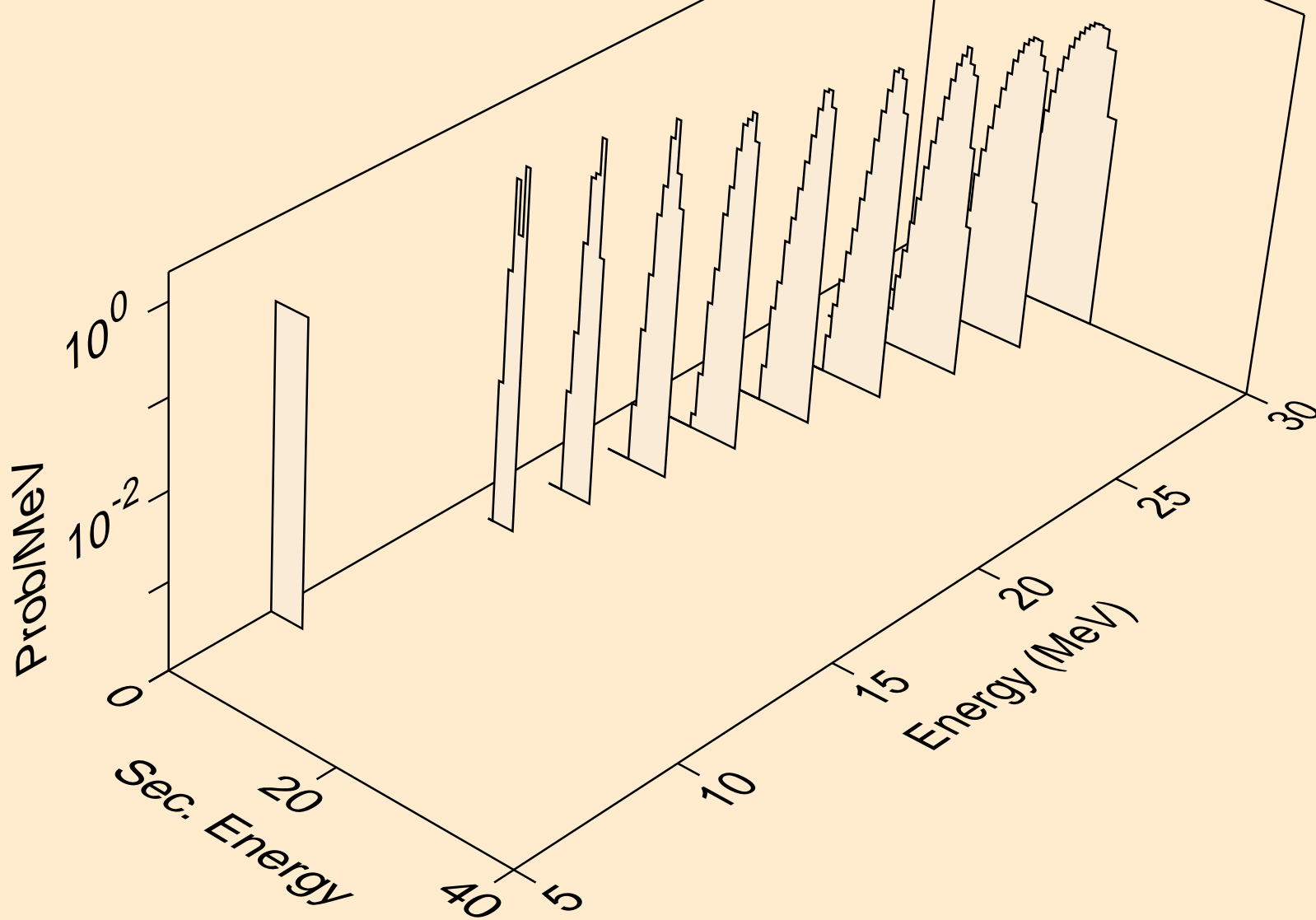


EU159 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
alphas from (n,n\*)a

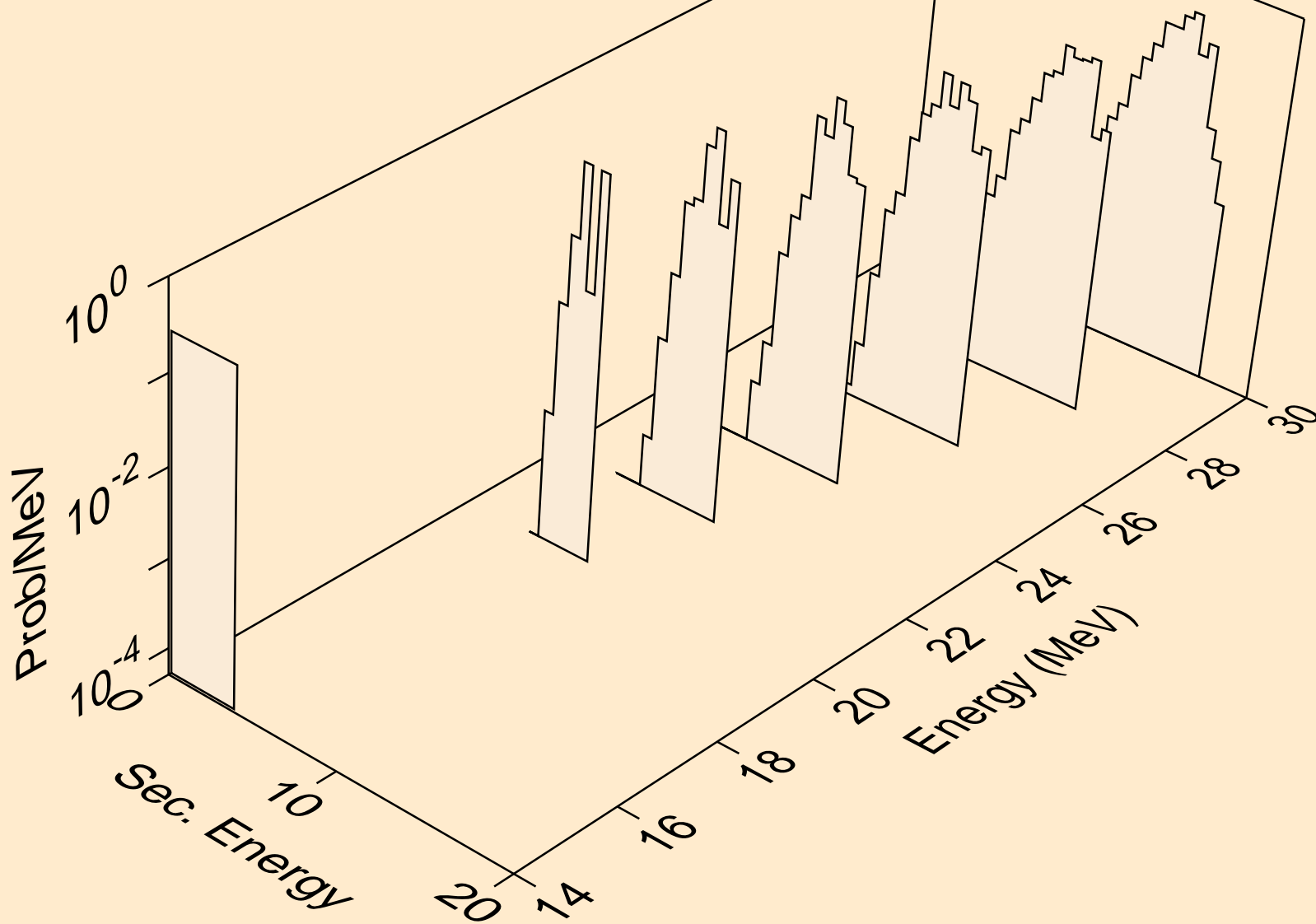




EU159 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
alphas from (n,2n)a



EU159 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
alphas from (n,3n)a



EU159 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
alphas from (n,a)

