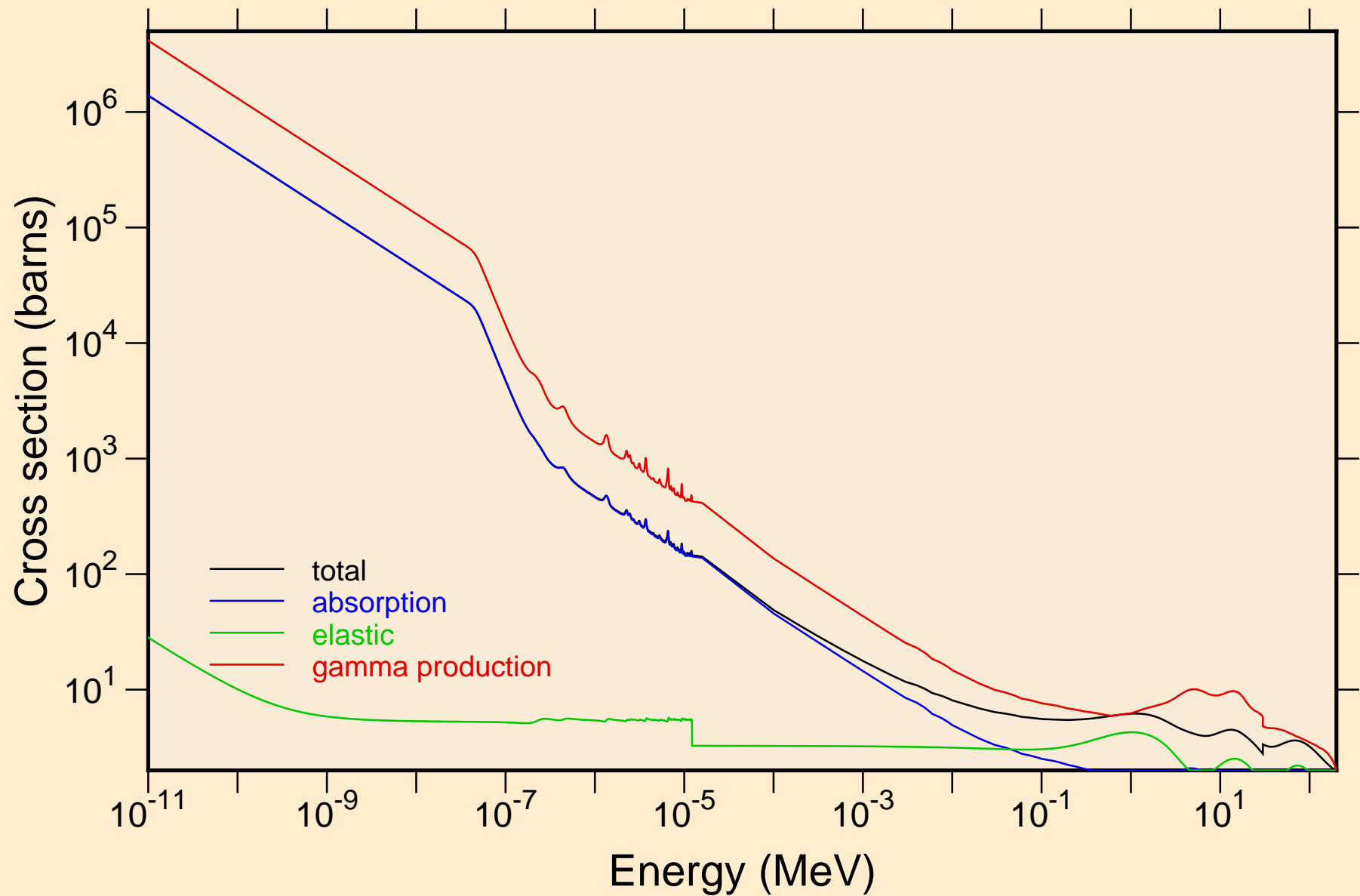
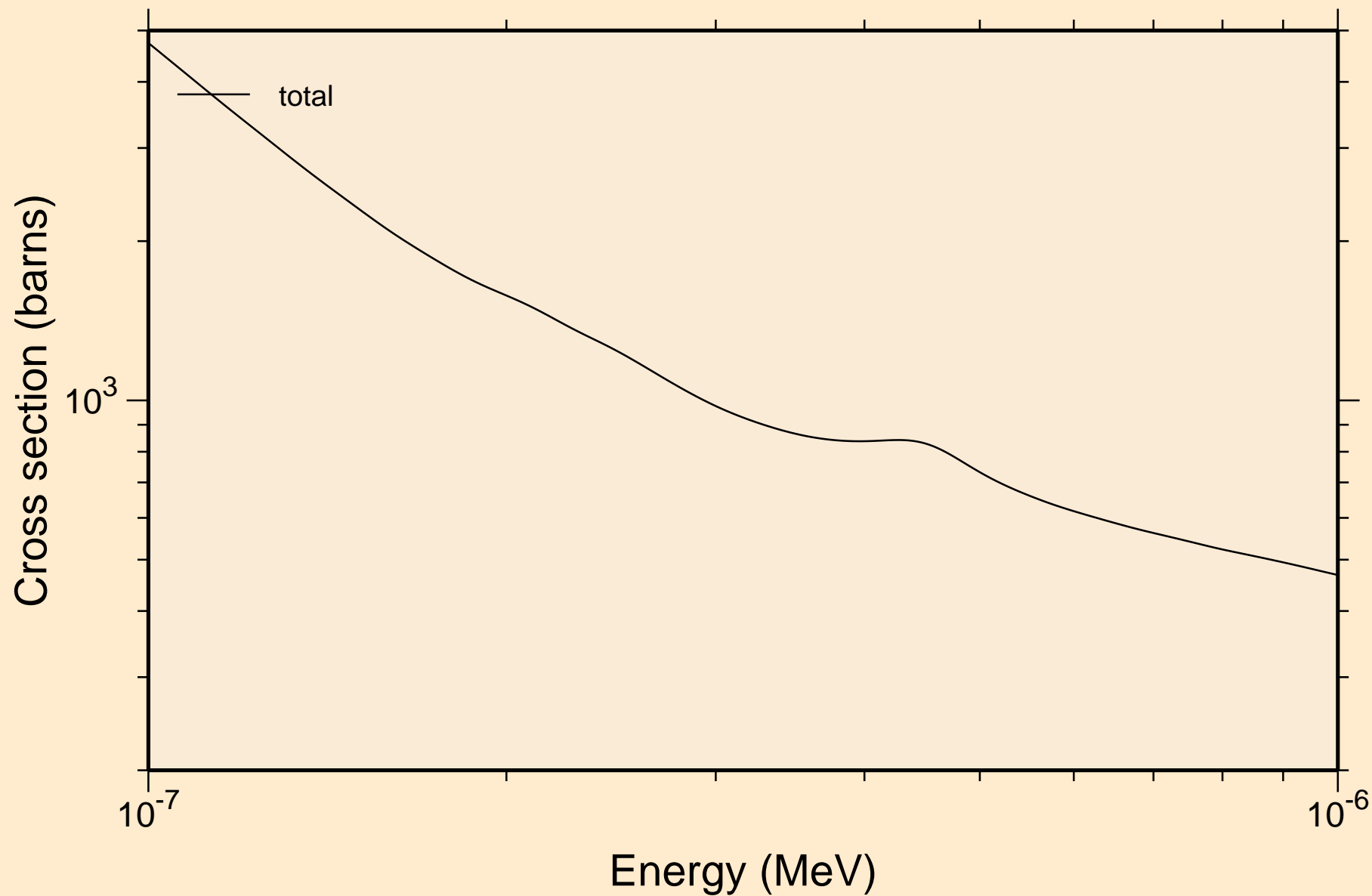


# CS117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K

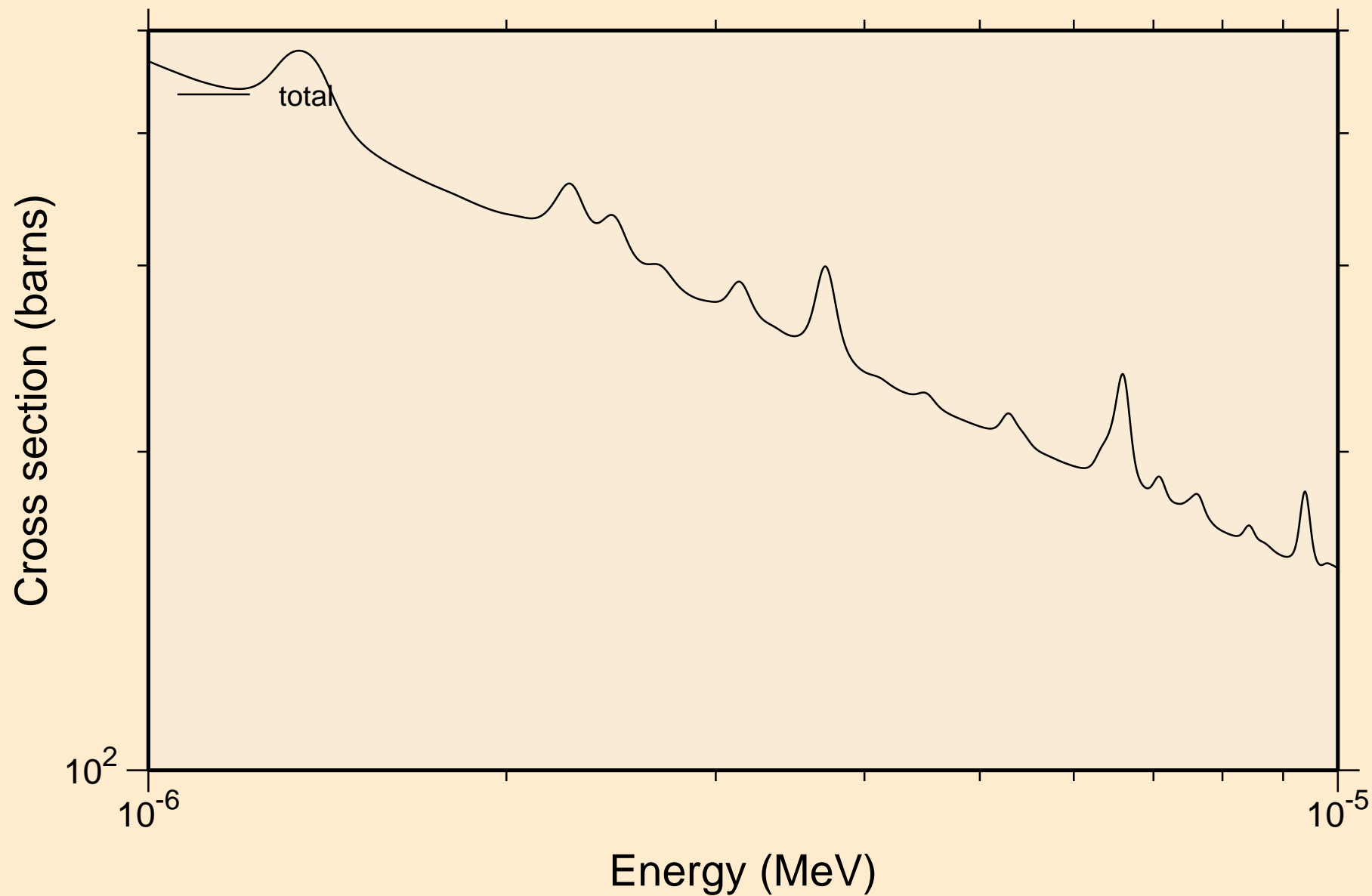
## Principal cross sections



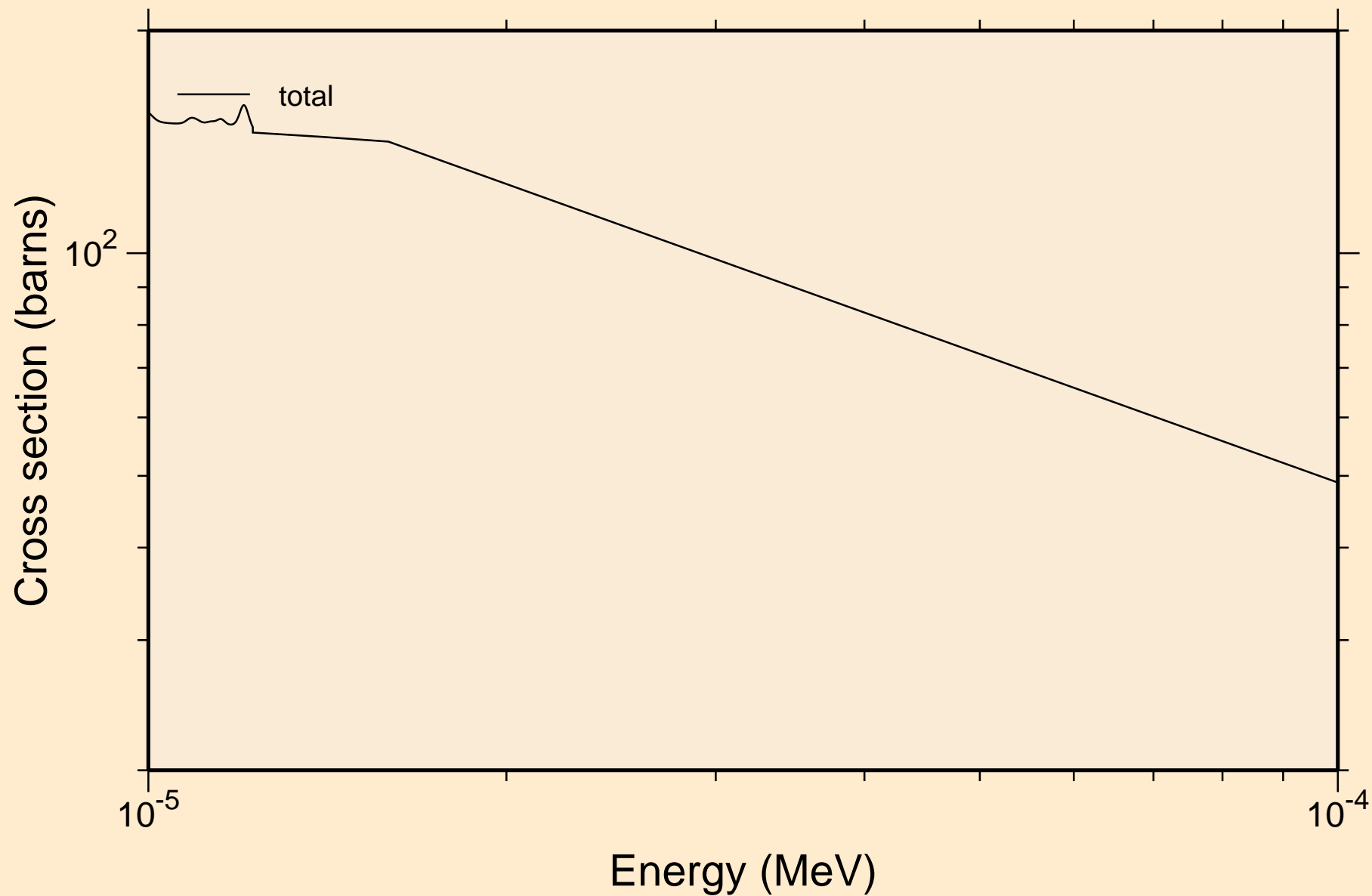
CS117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
resonance total cross section



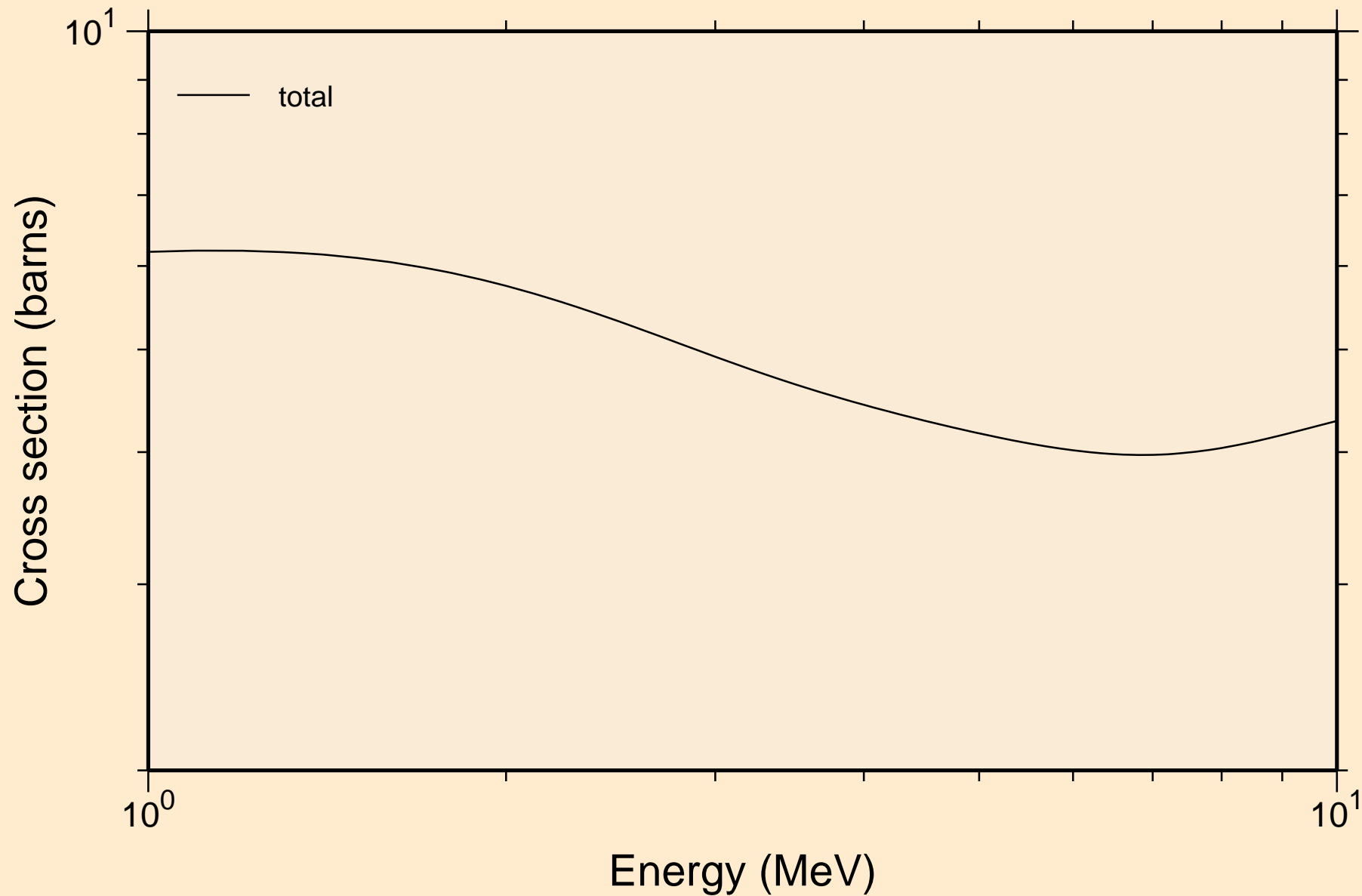
CS117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
resonance total cross section



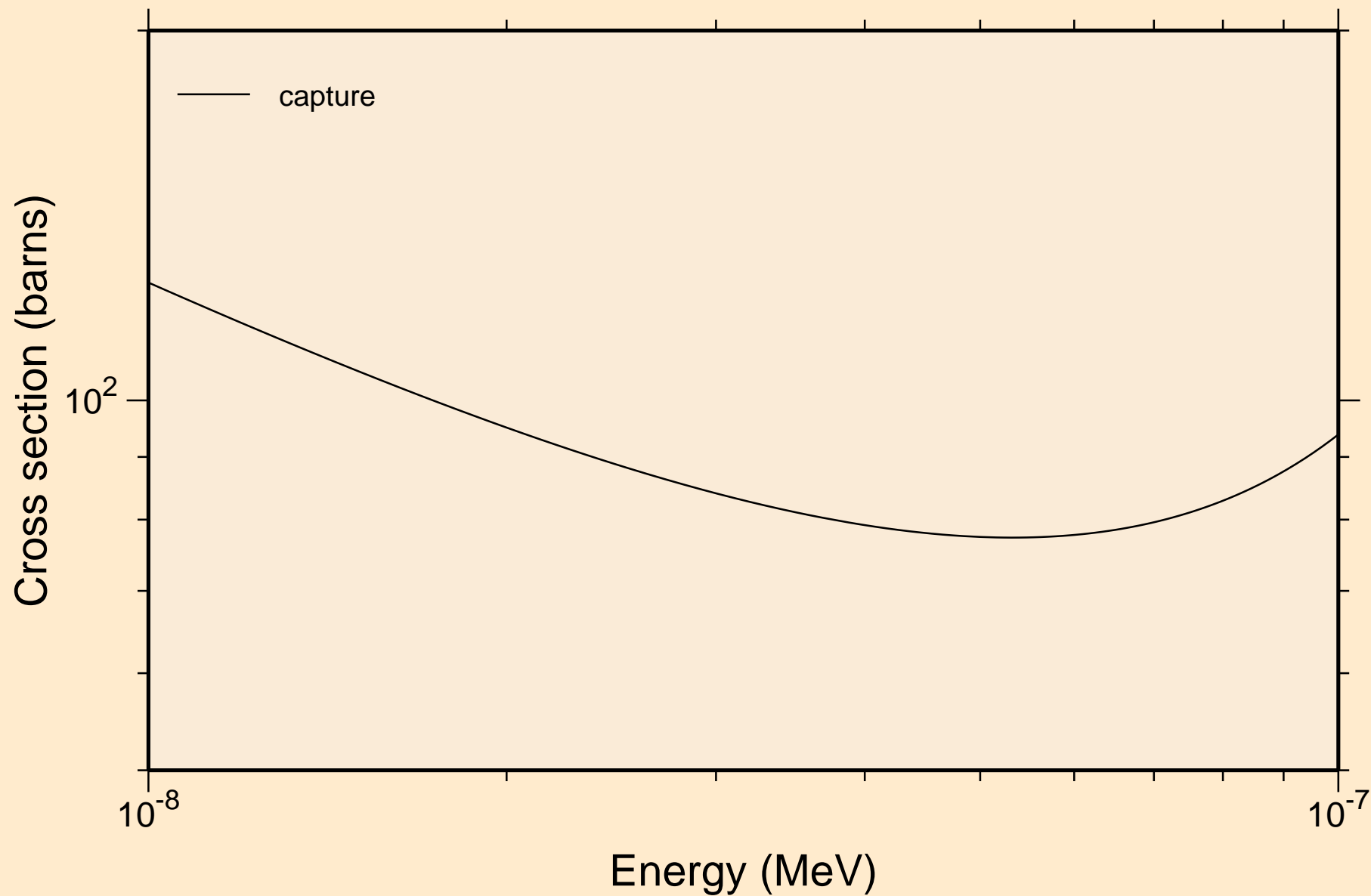
CS117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
resonance total cross section



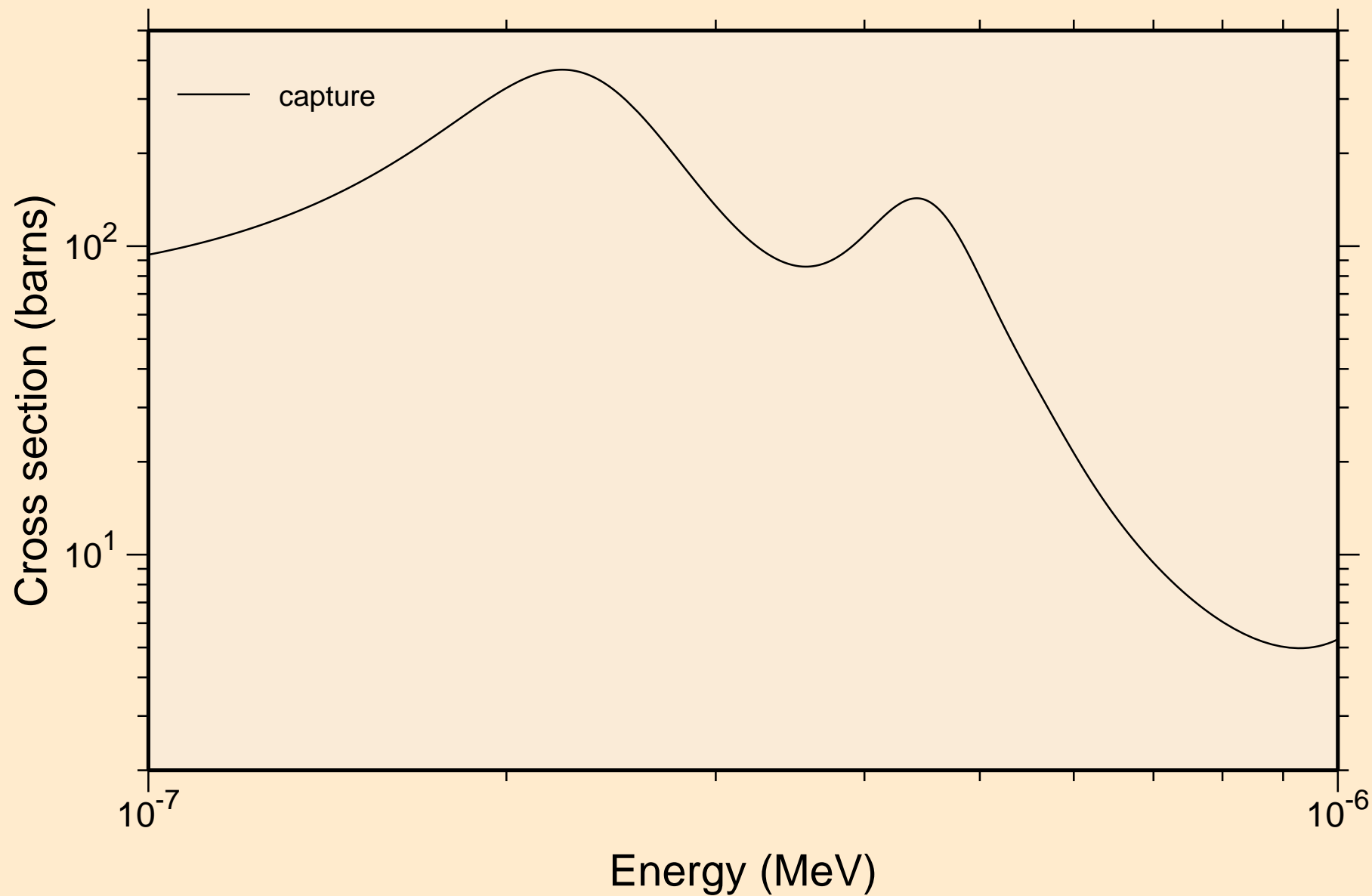
CS117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
resonance total cross section



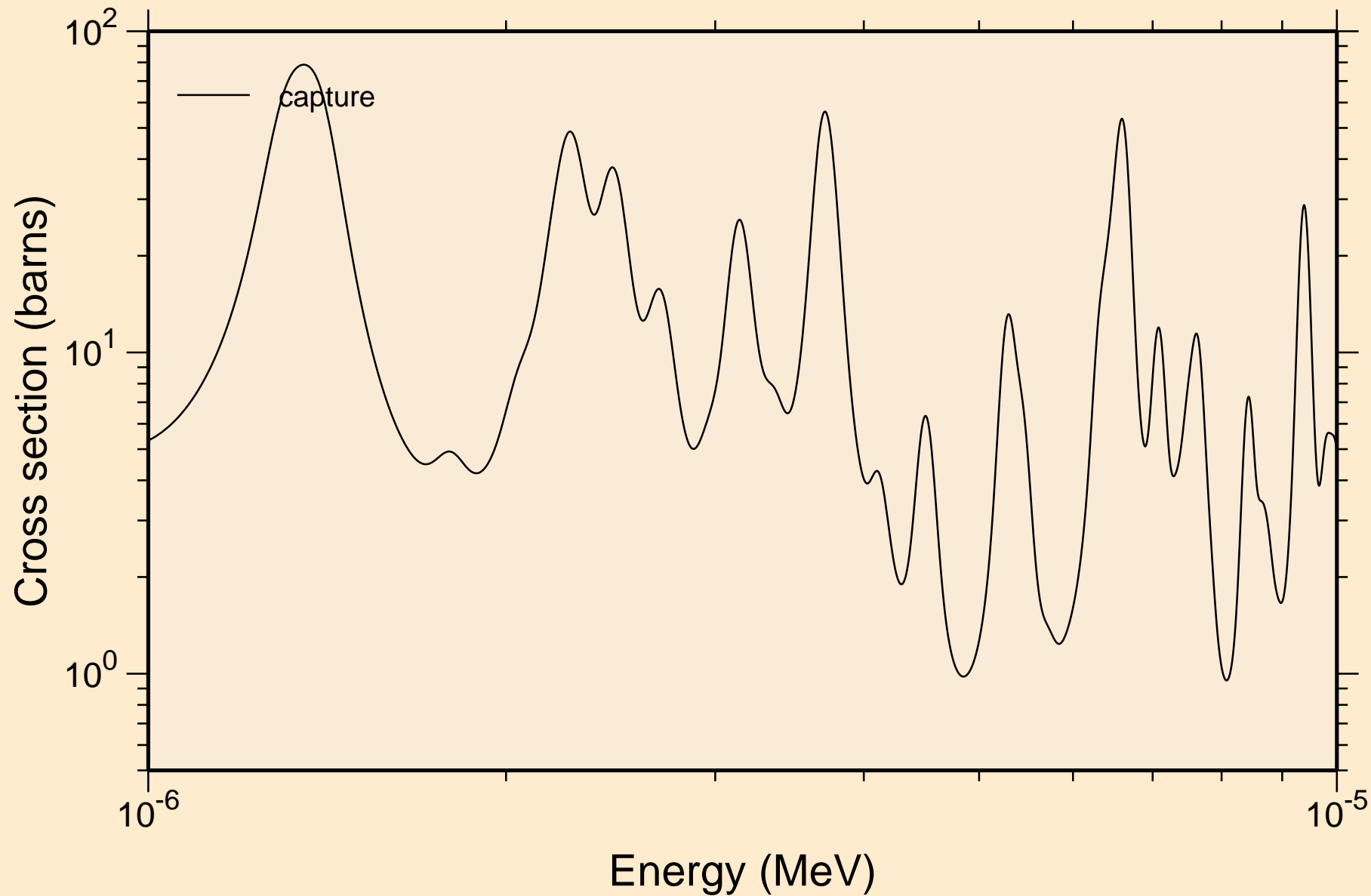
CS117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
resonance absorption cross sections



CS117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
resonance absorption cross sections

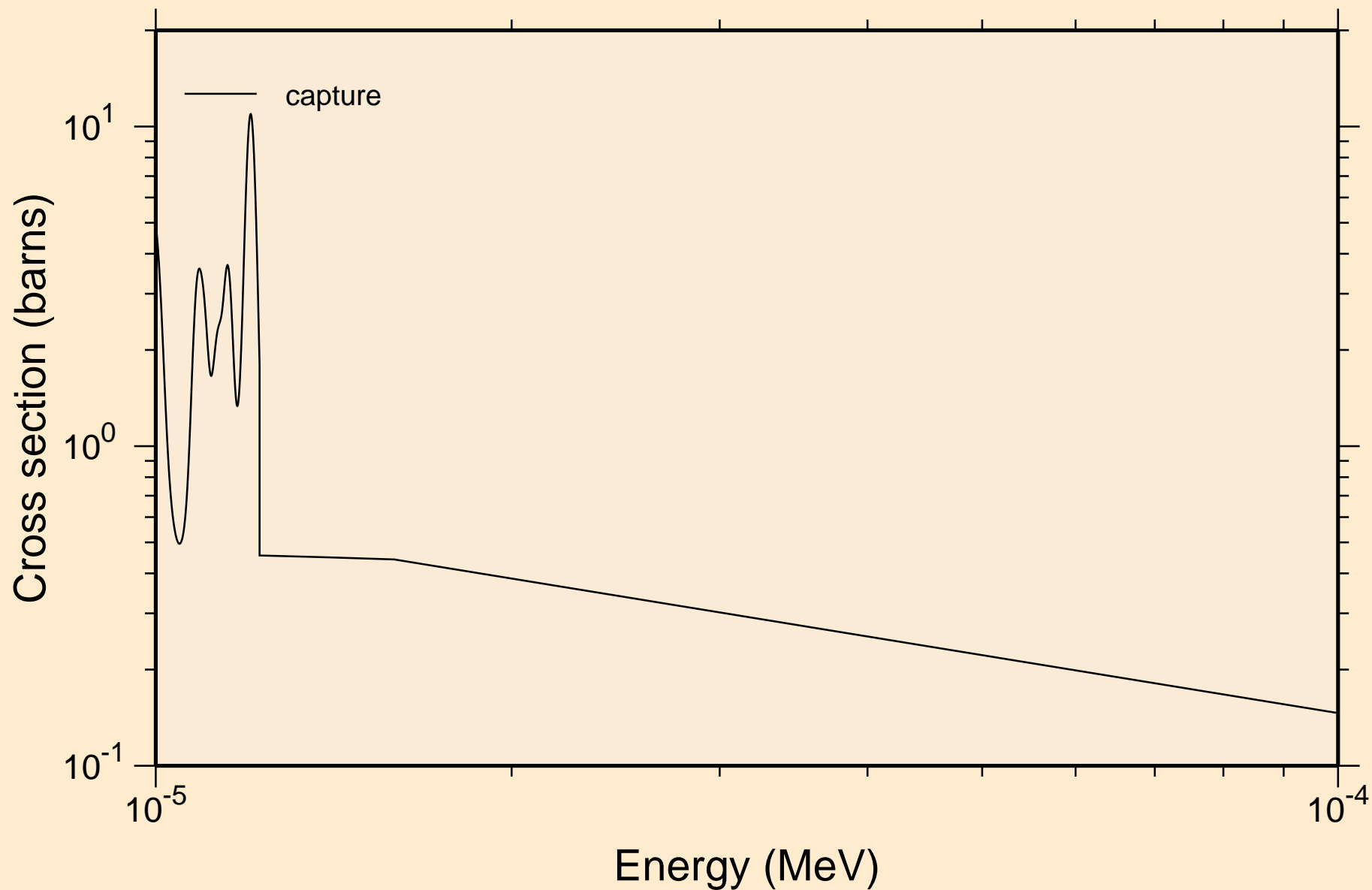


CS117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
resonance absorption cross sections

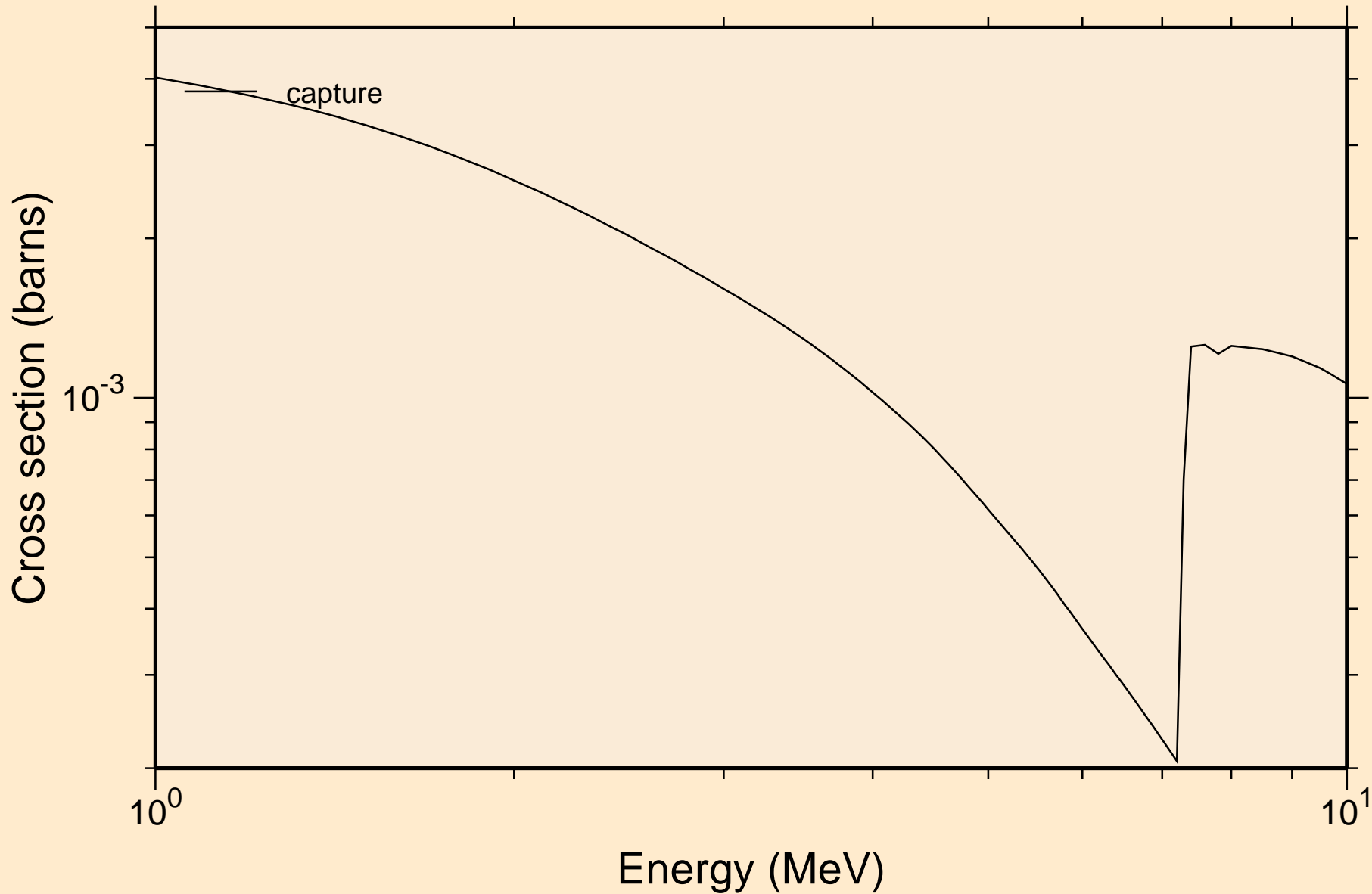




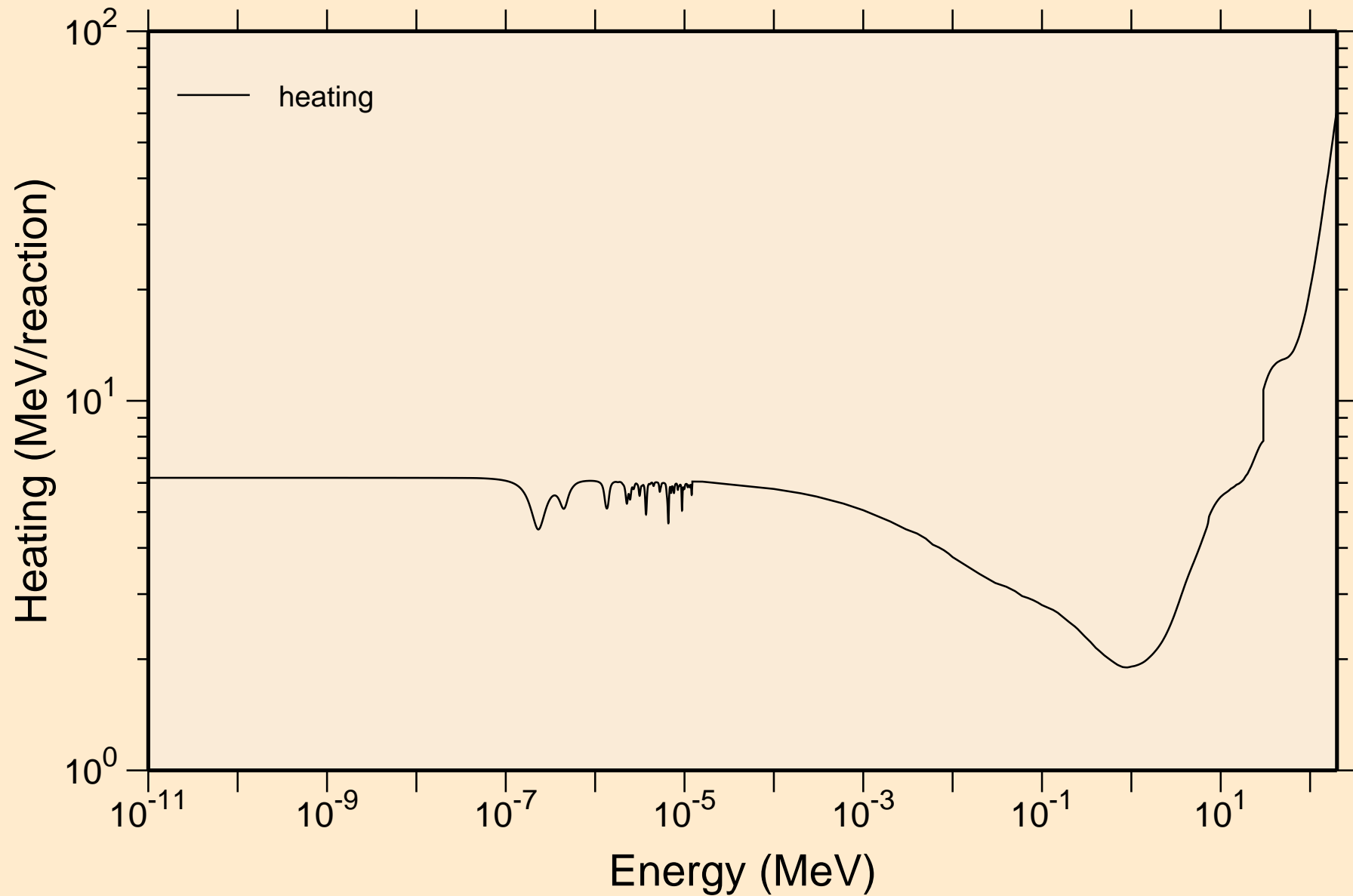
CS117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
resonance absorption cross sections



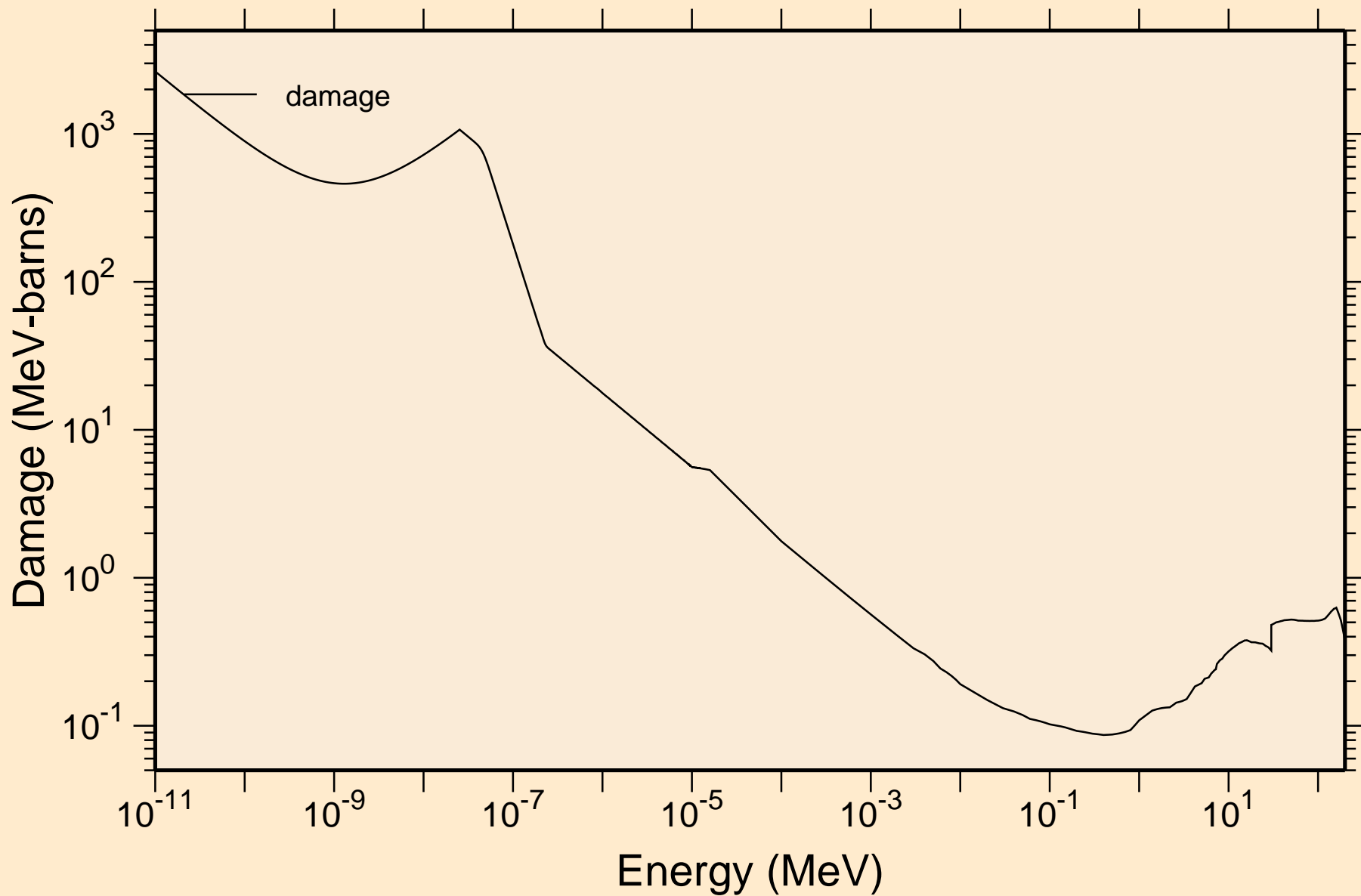
CS117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
resonance absorption cross sections



CS117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Heating

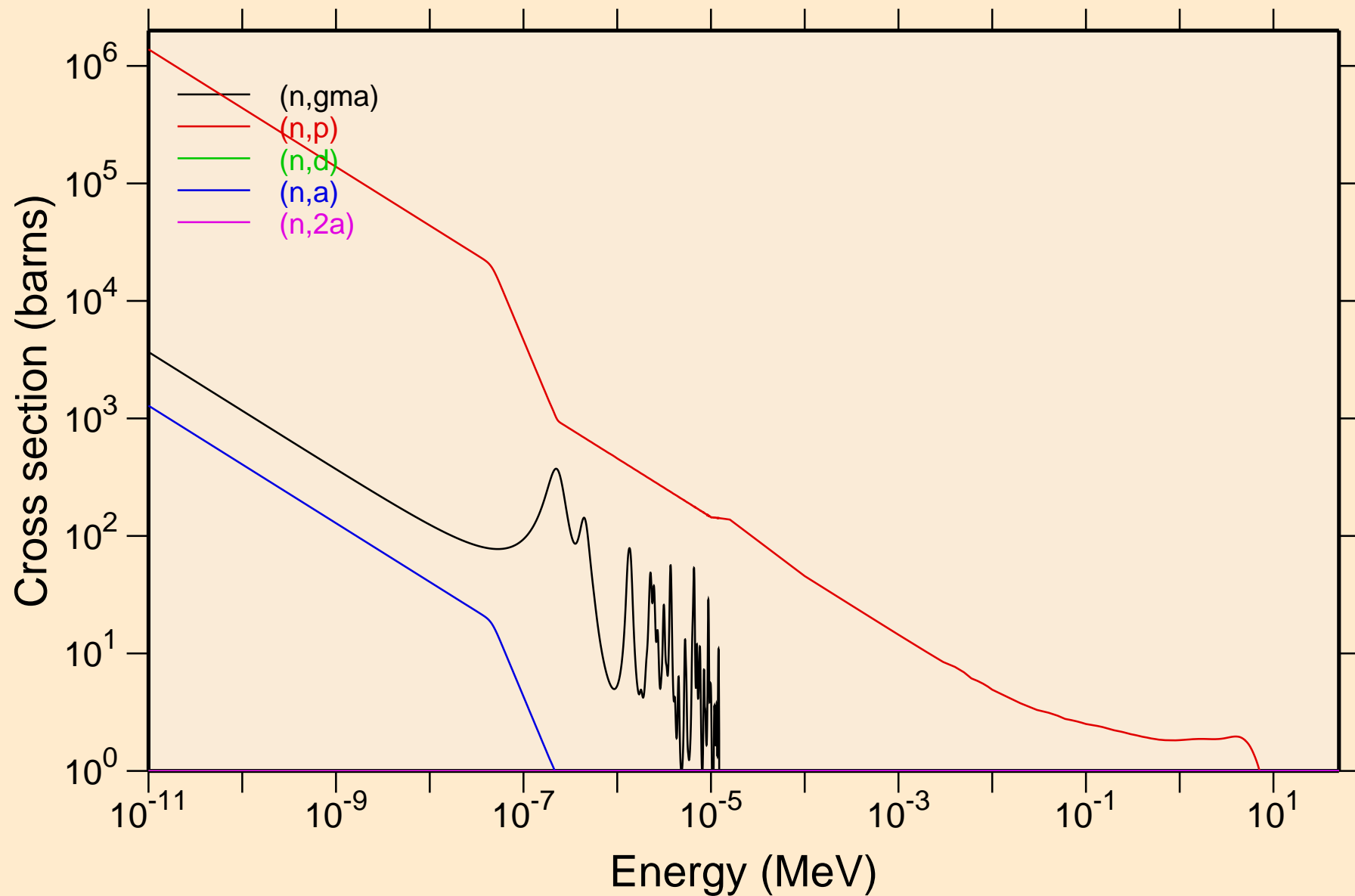


CS117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Damage

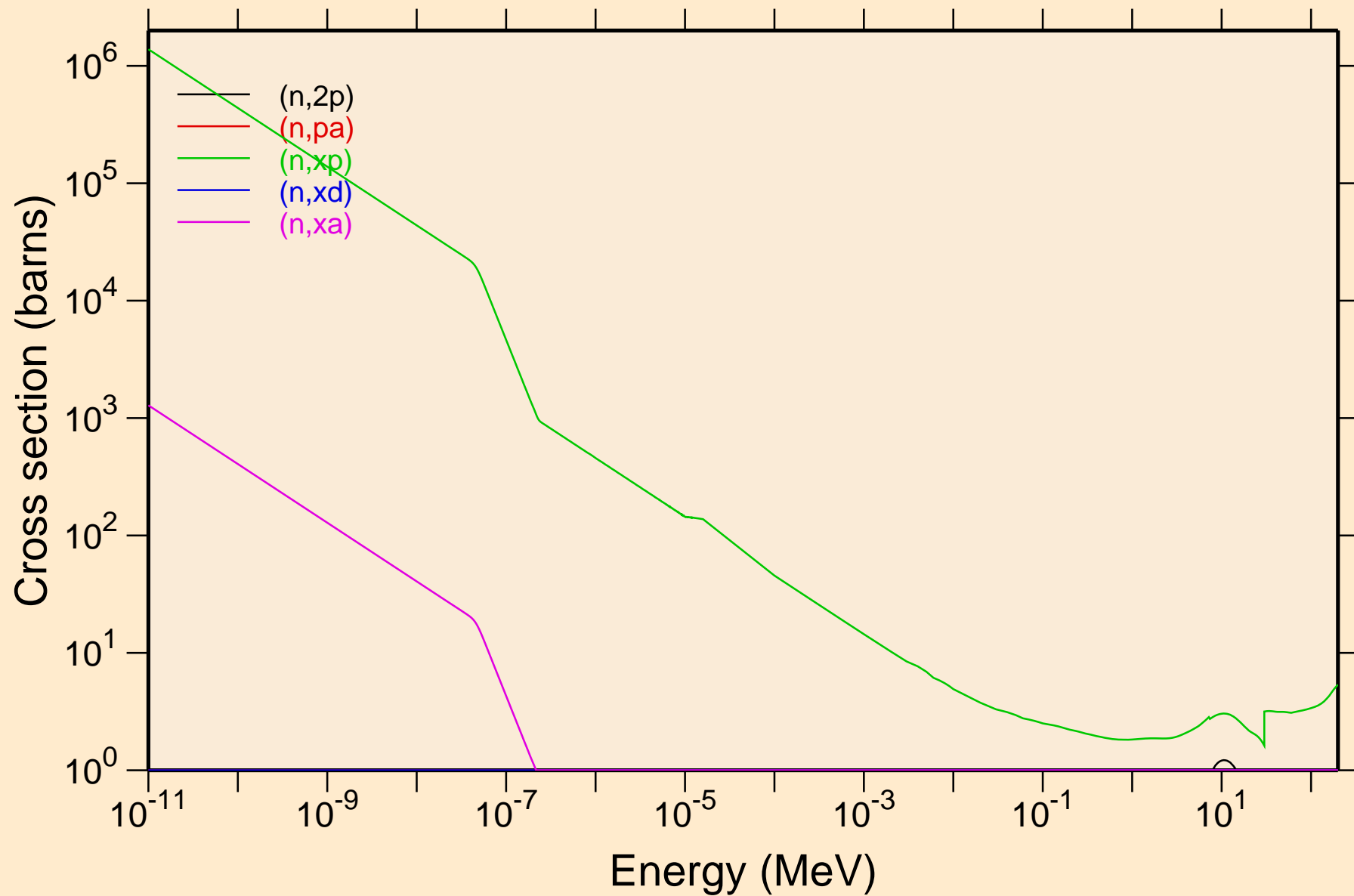


# CS117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K

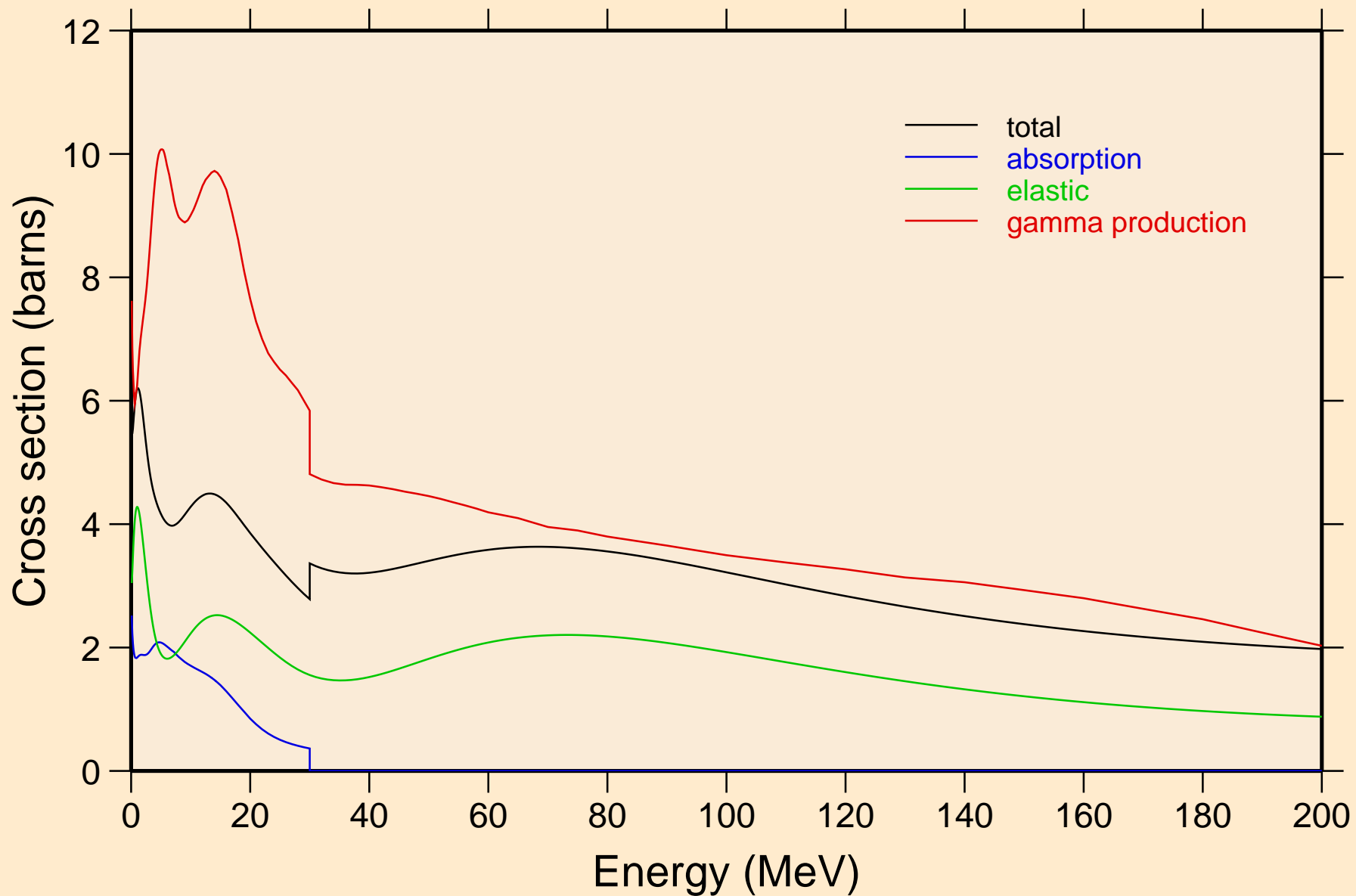
## Non-threshold reactions



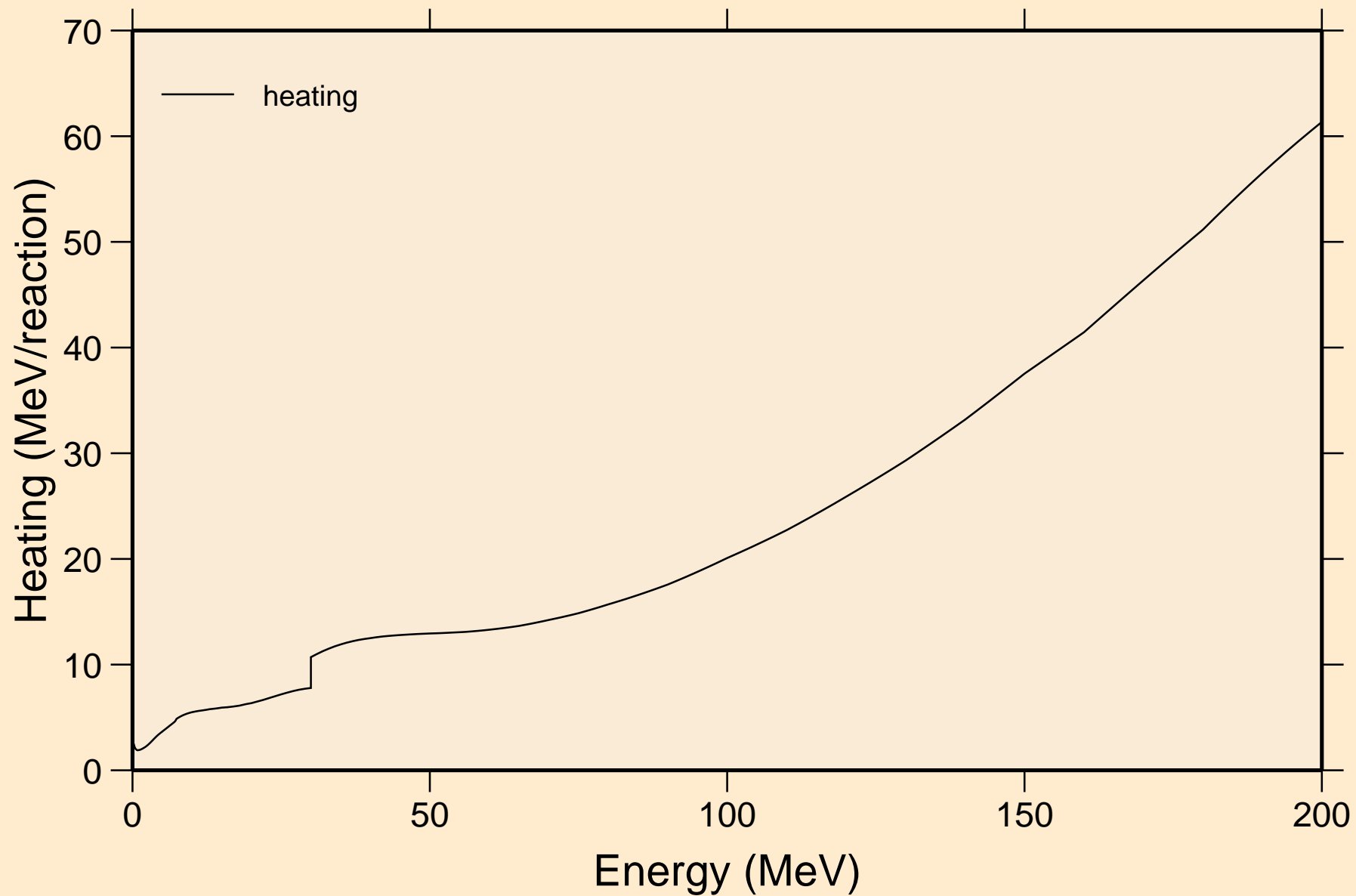
CS117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Non-threshold reactions



CS117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Principal cross sections

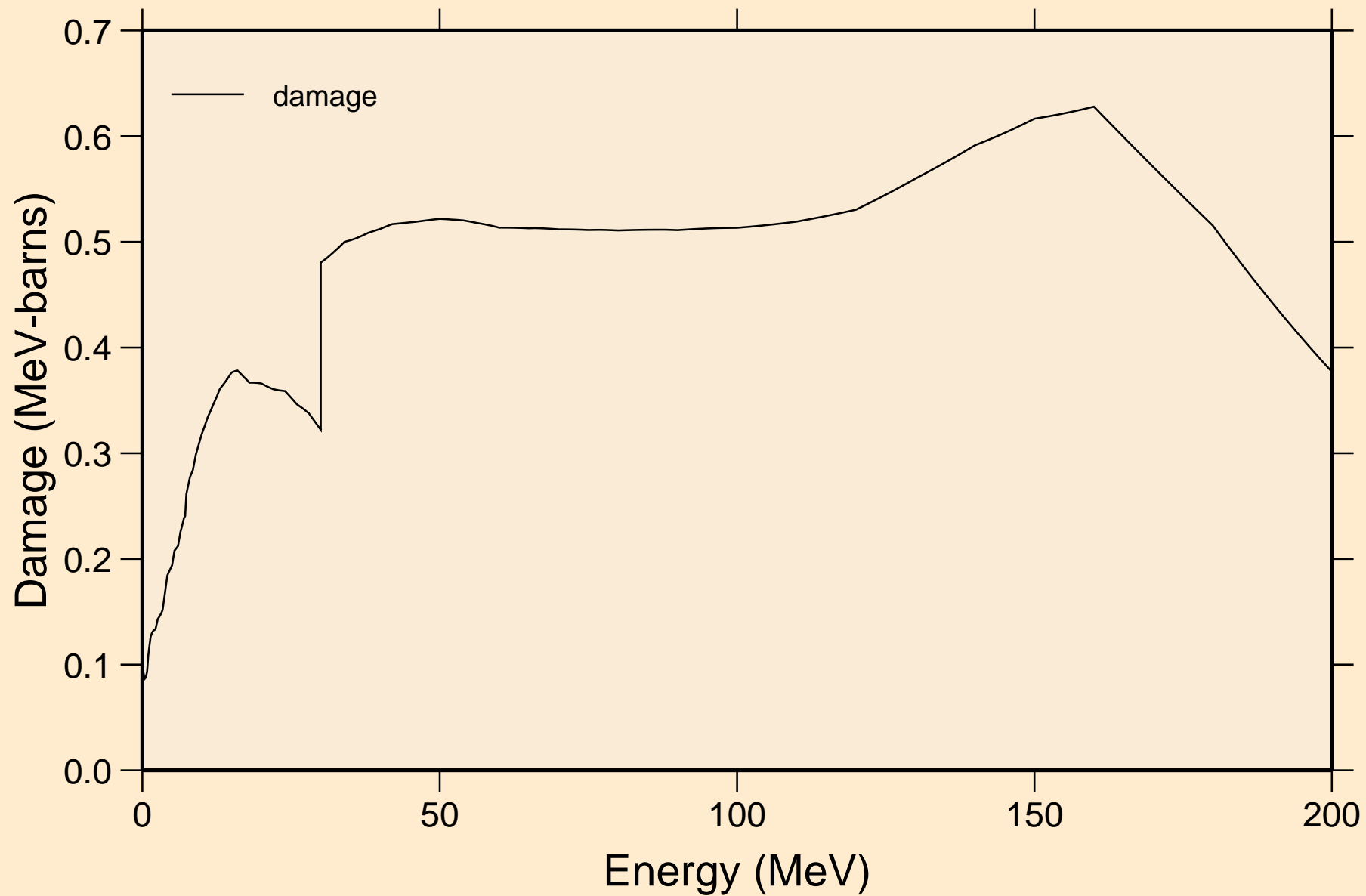


CS117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Heating

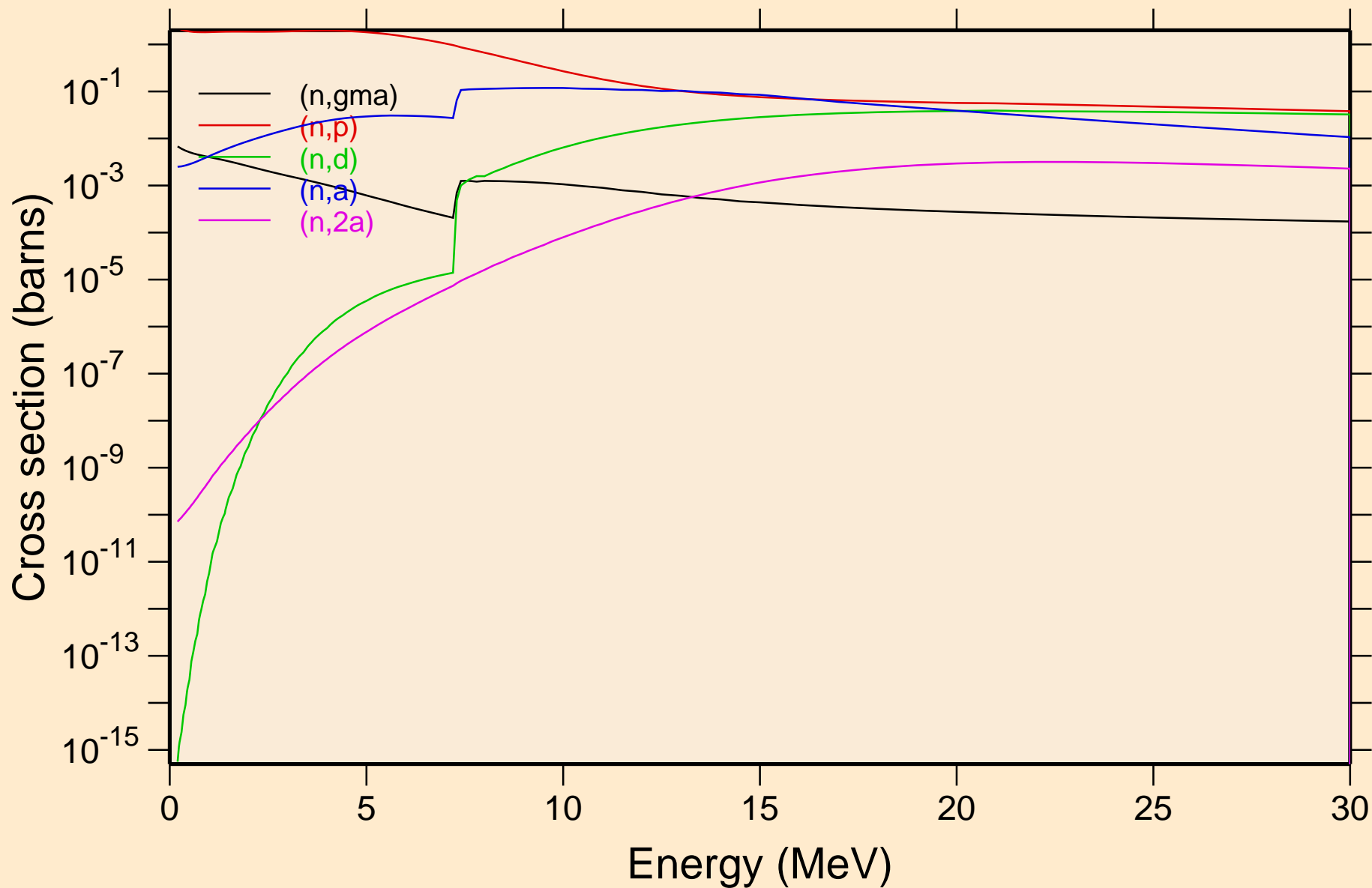




# CS117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K Damage

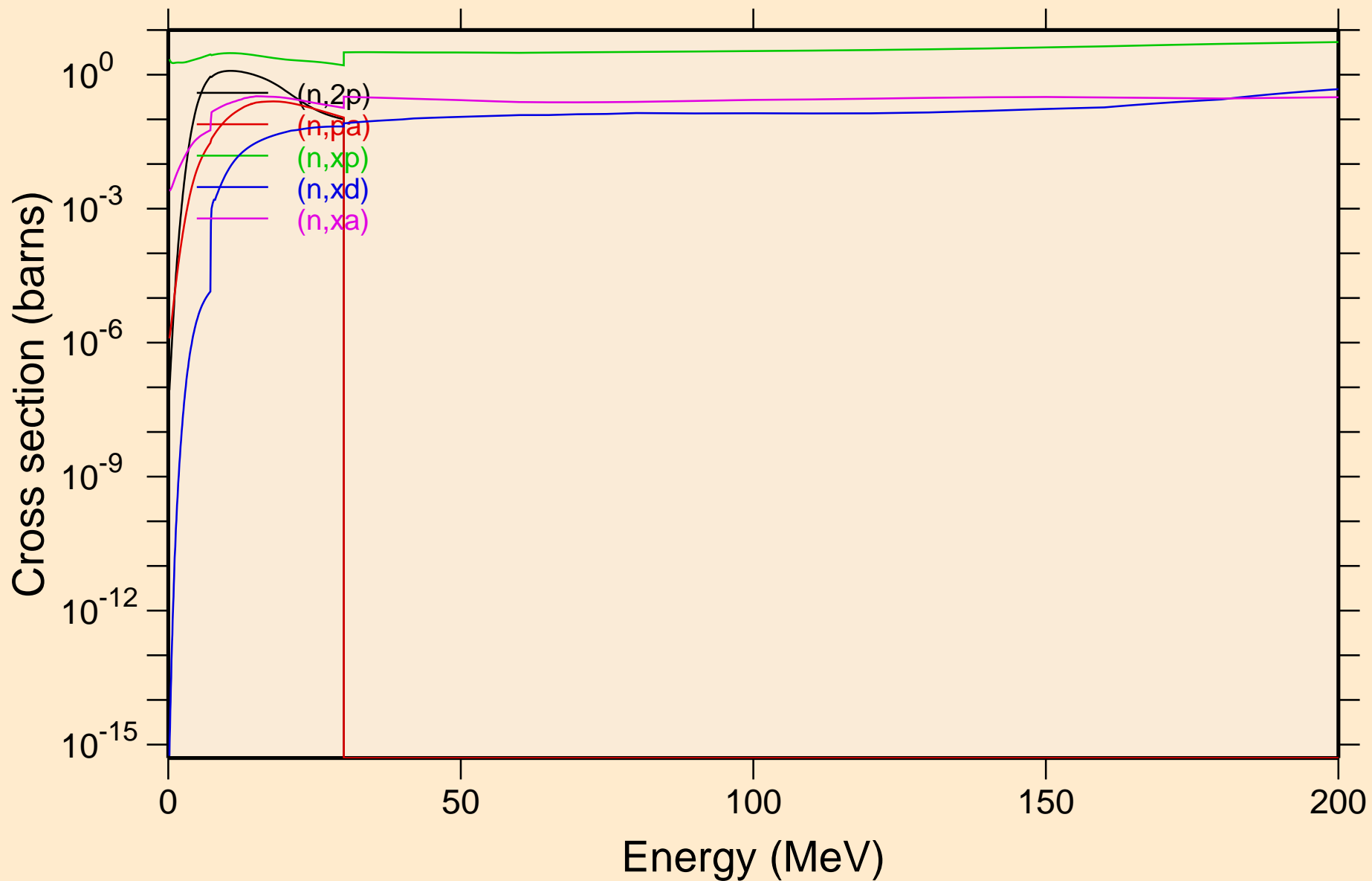


CS117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Non-threshold reactions

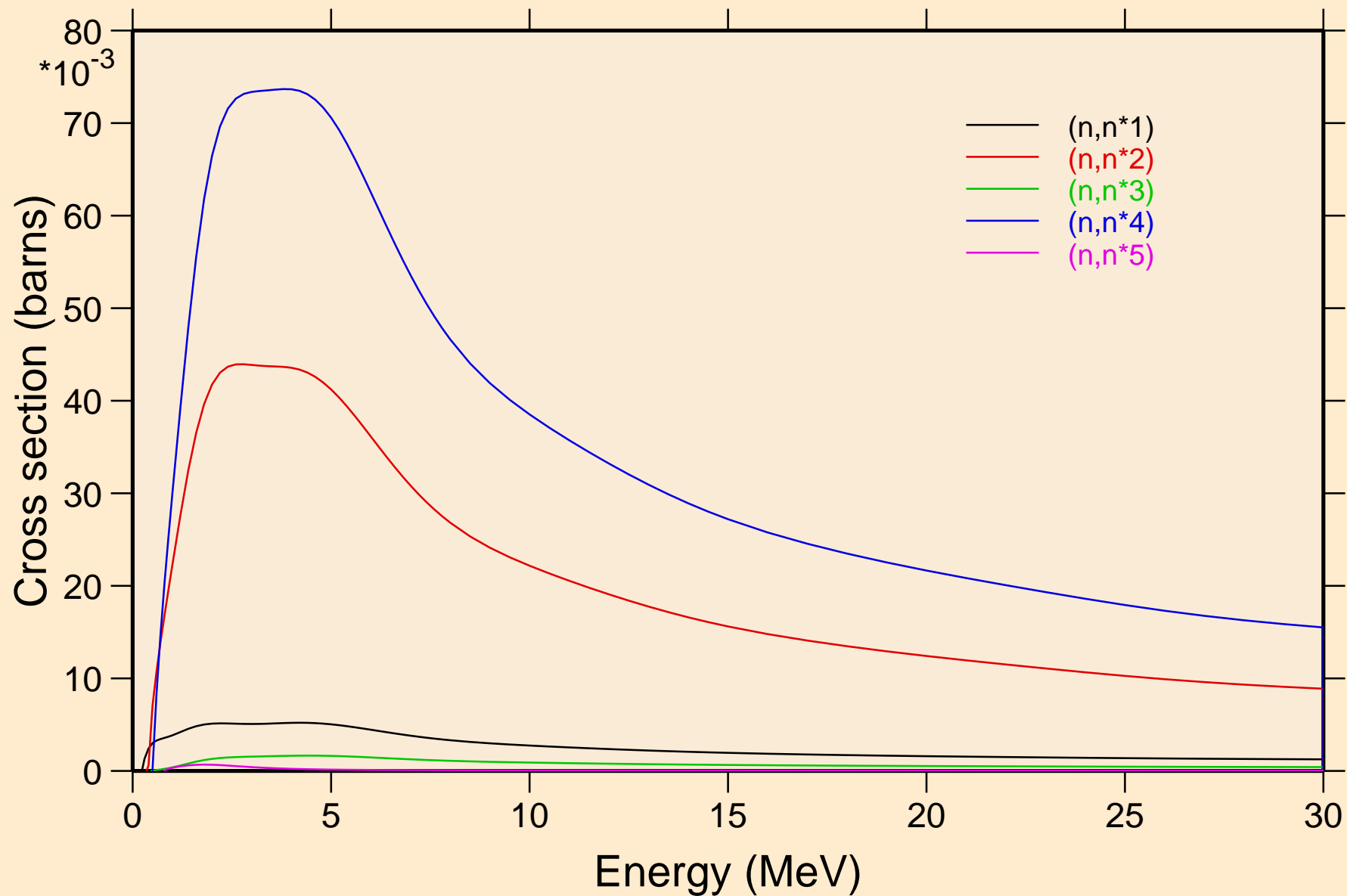


# CS117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K

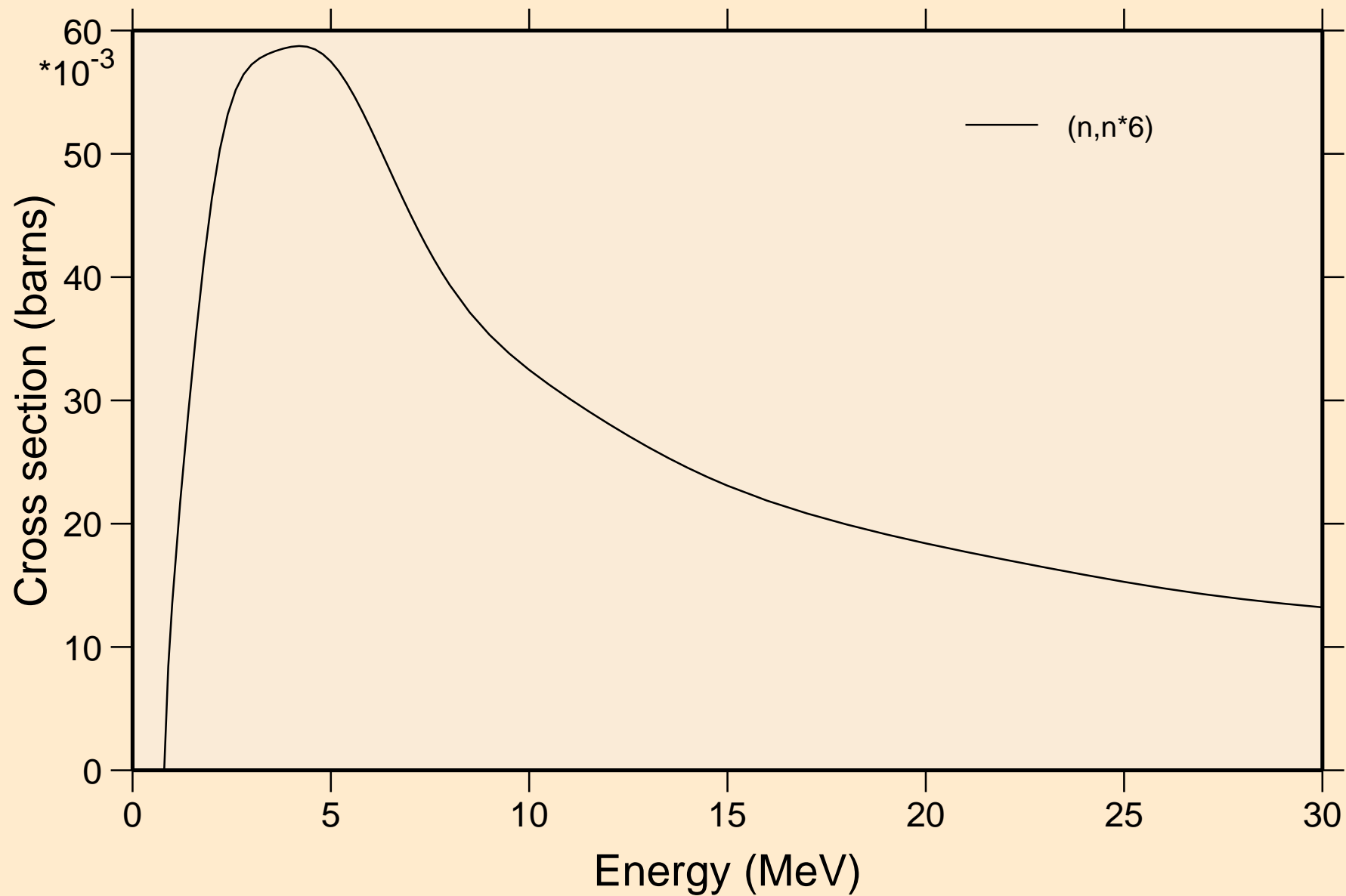
## Non-threshold reactions



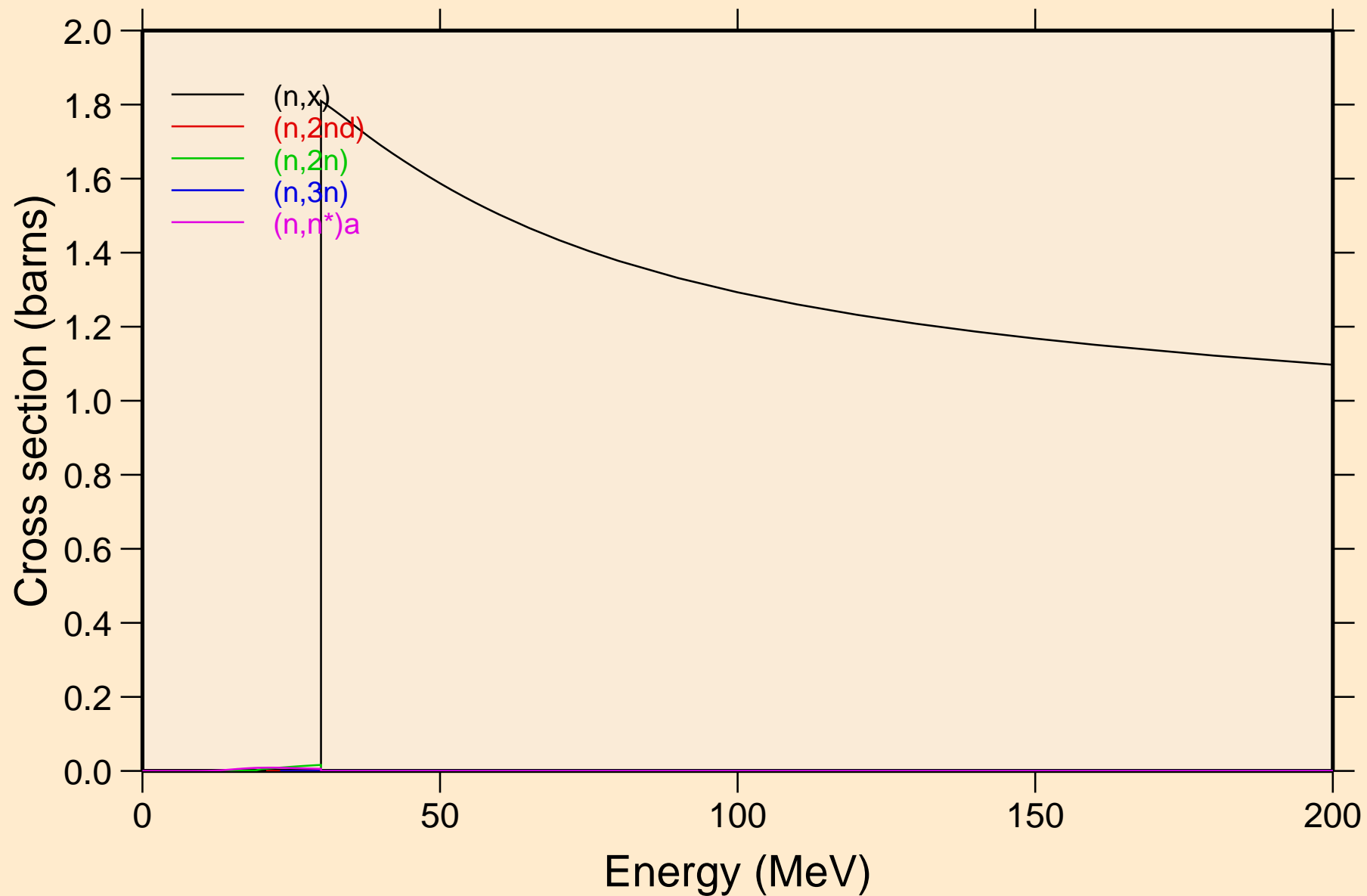
CS117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Inelastic levels



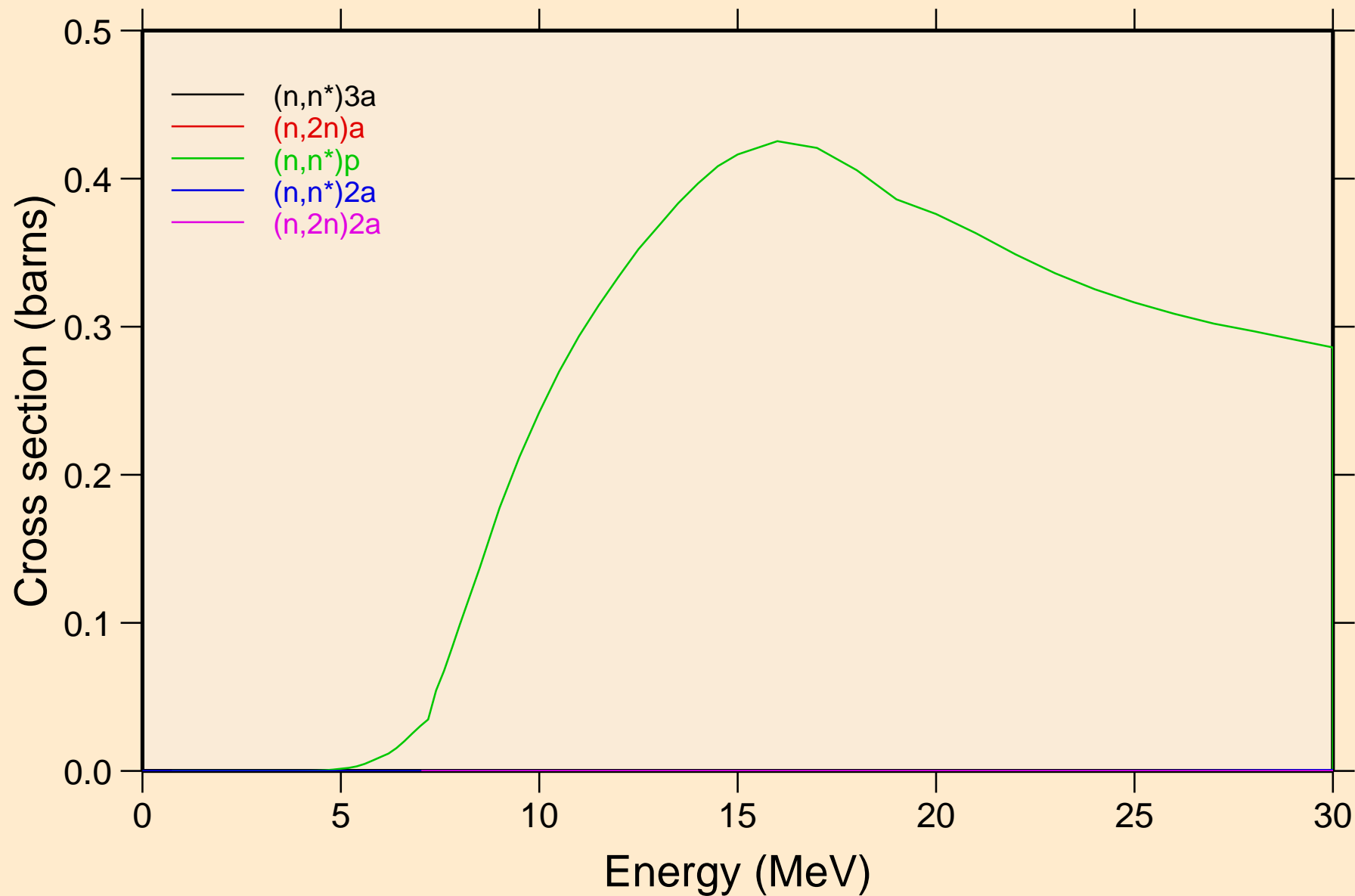
CS117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Inelastic levels



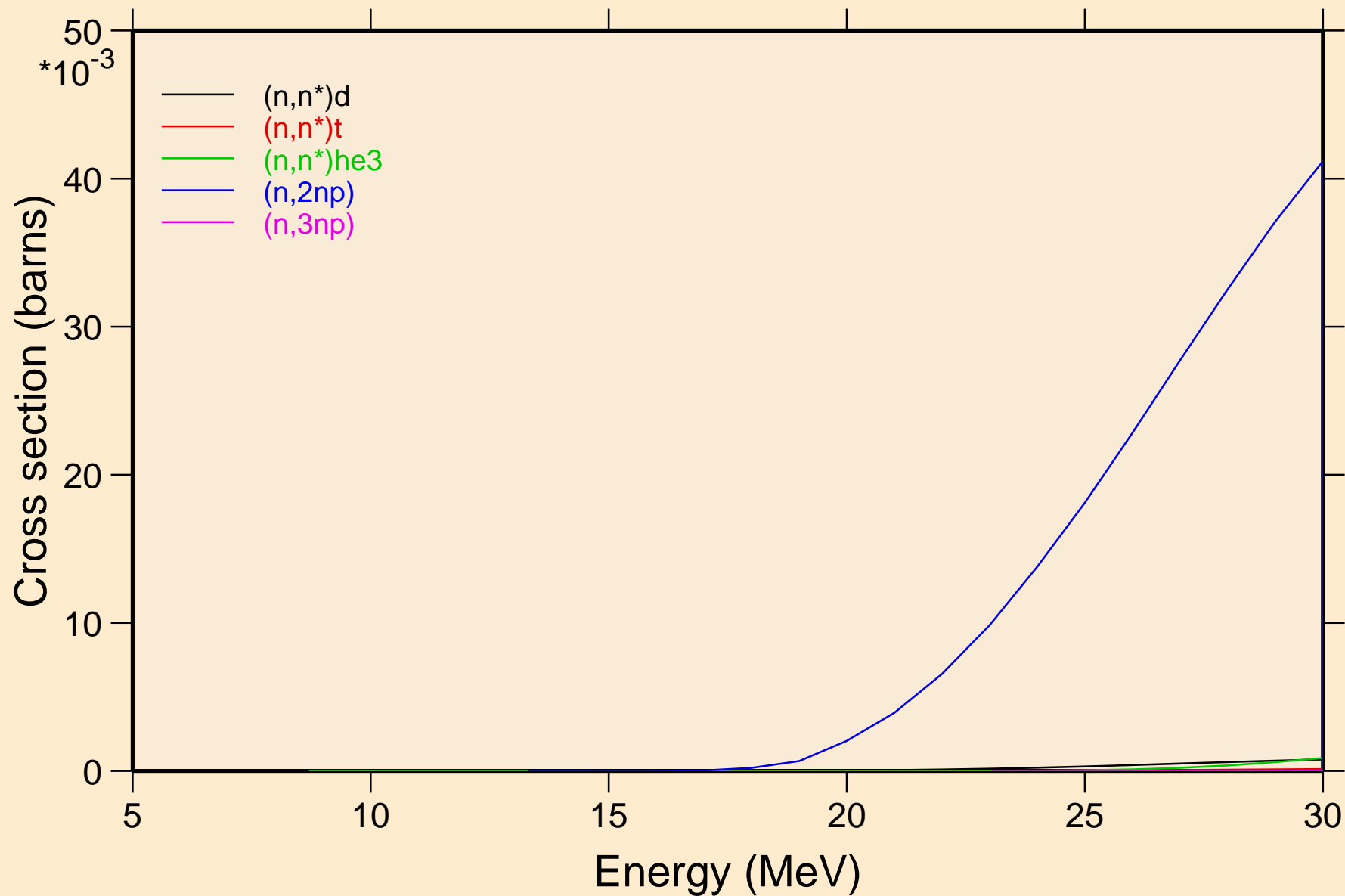
CS117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Threshold reactions



CS117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Threshold reactions

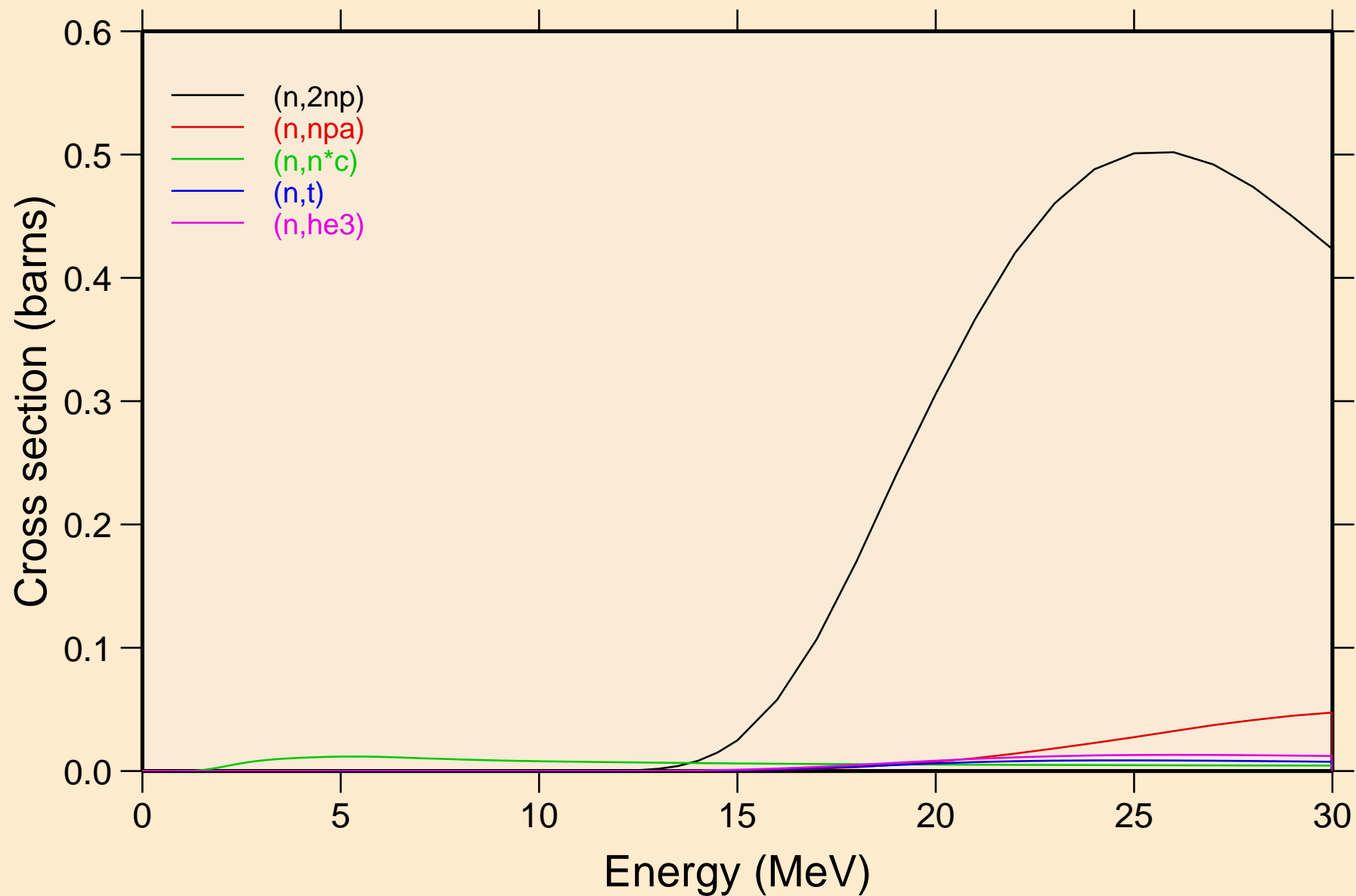


CS117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Threshold reactions

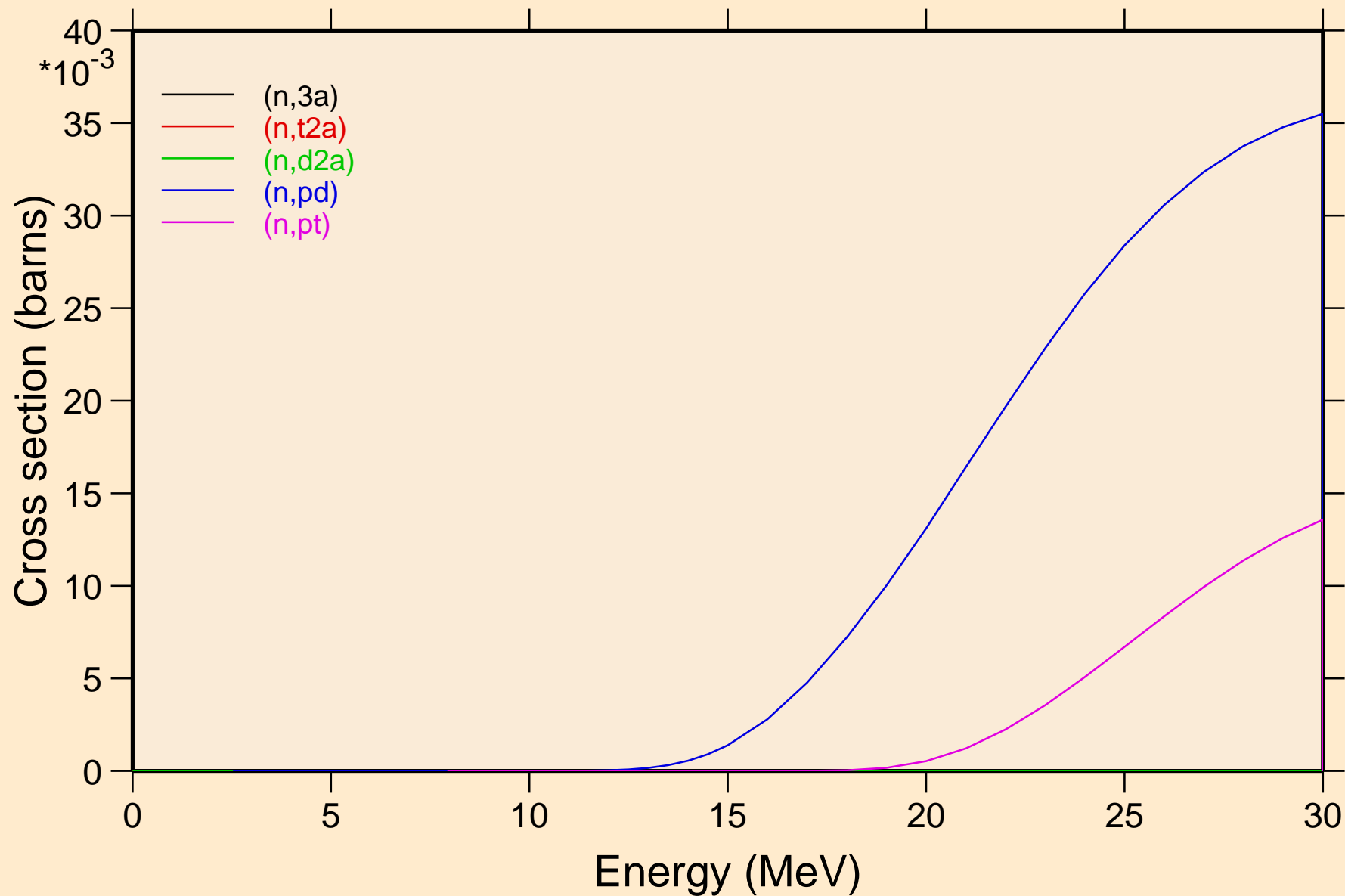




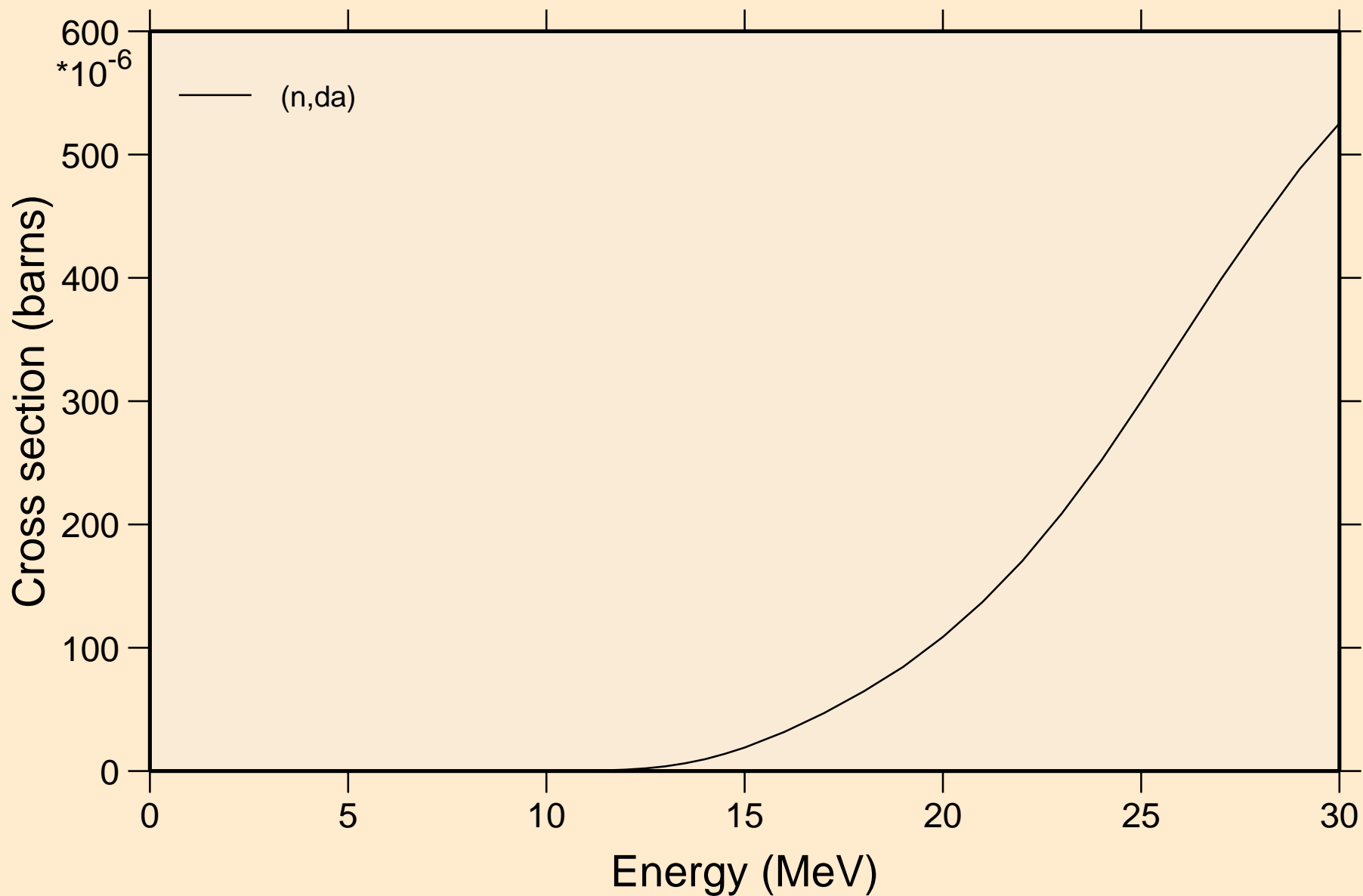
CS117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Threshold reactions



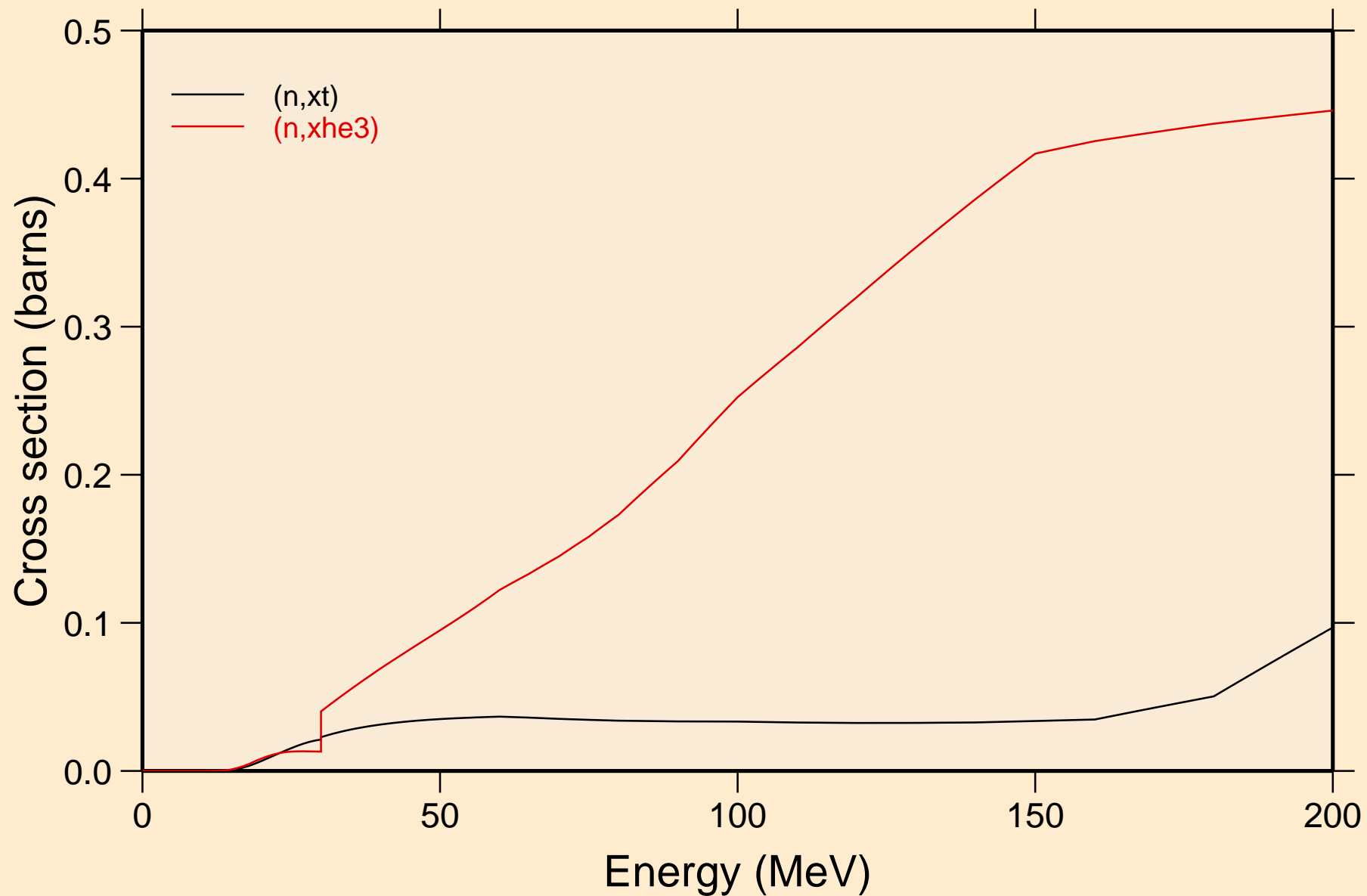
CS117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Threshold reactions



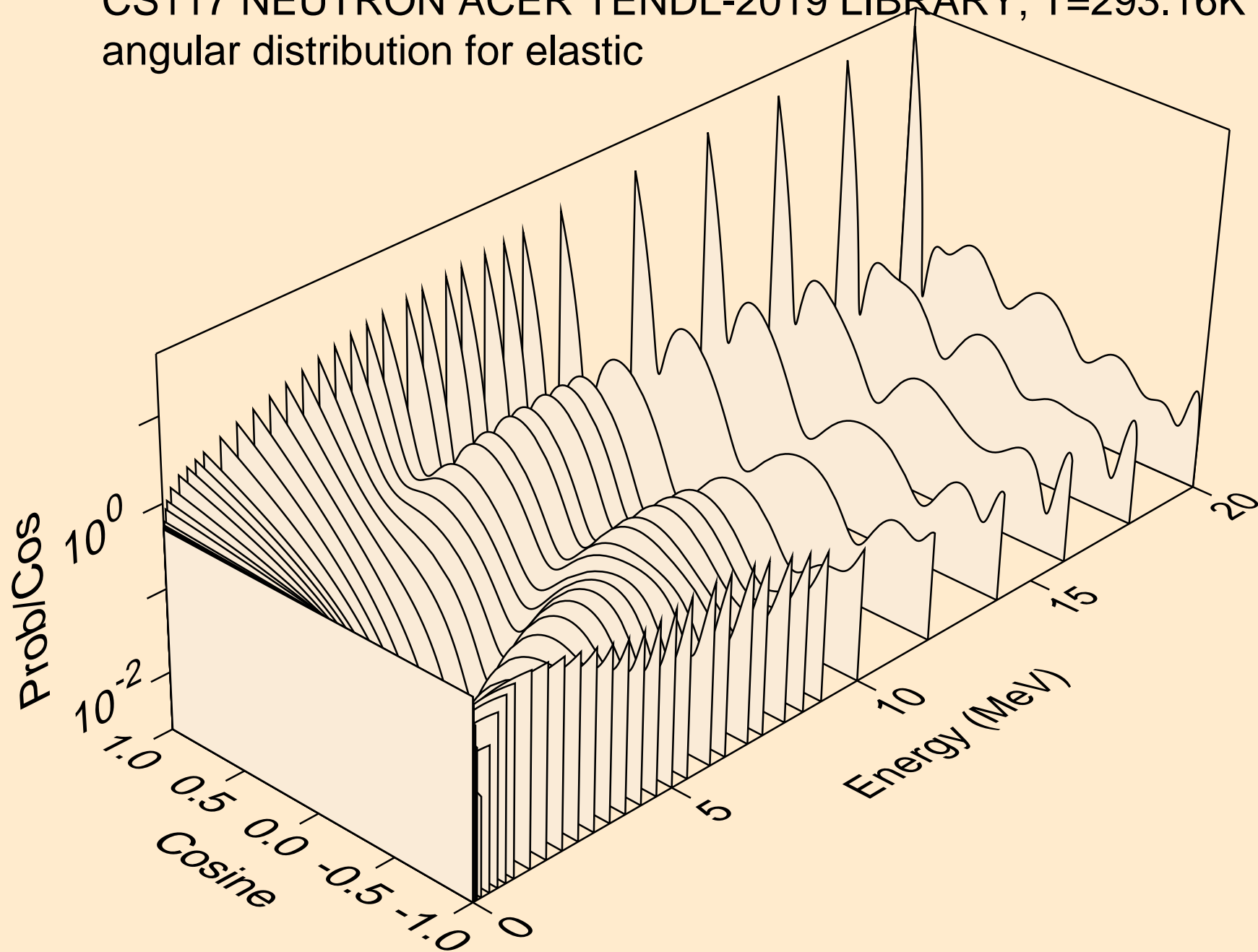
CS117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Threshold reactions



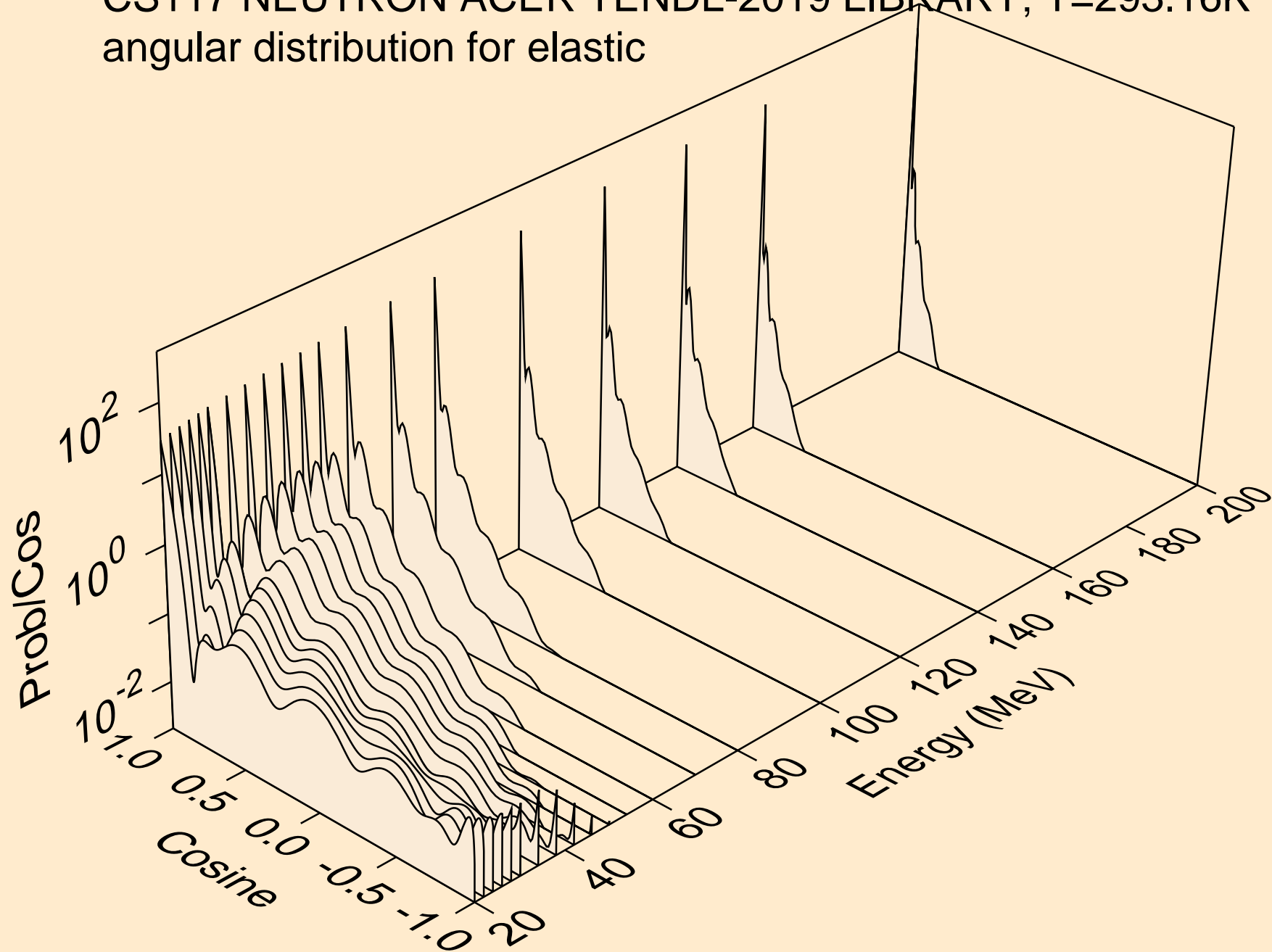
CS117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Threshold reactions



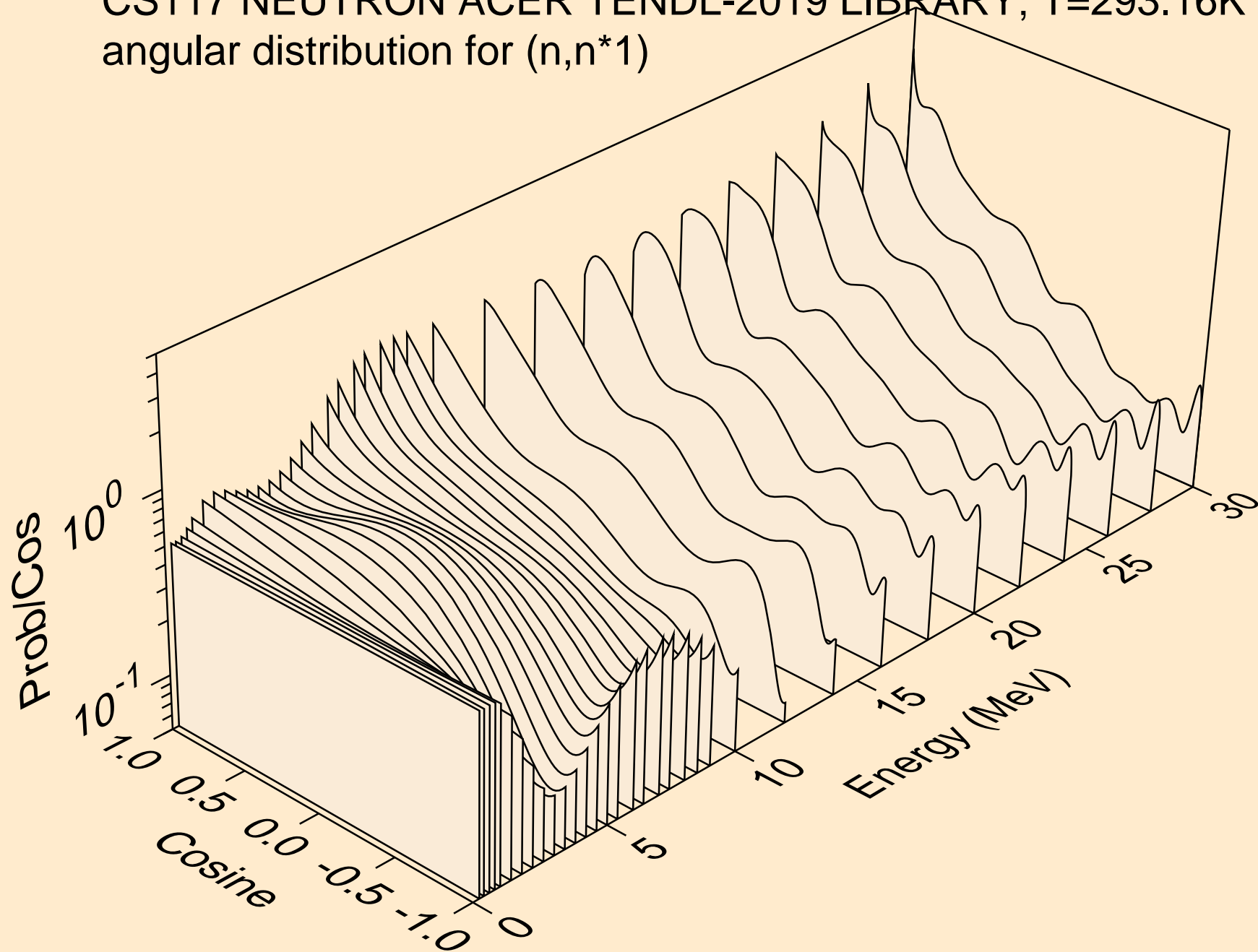
CS117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for elastic



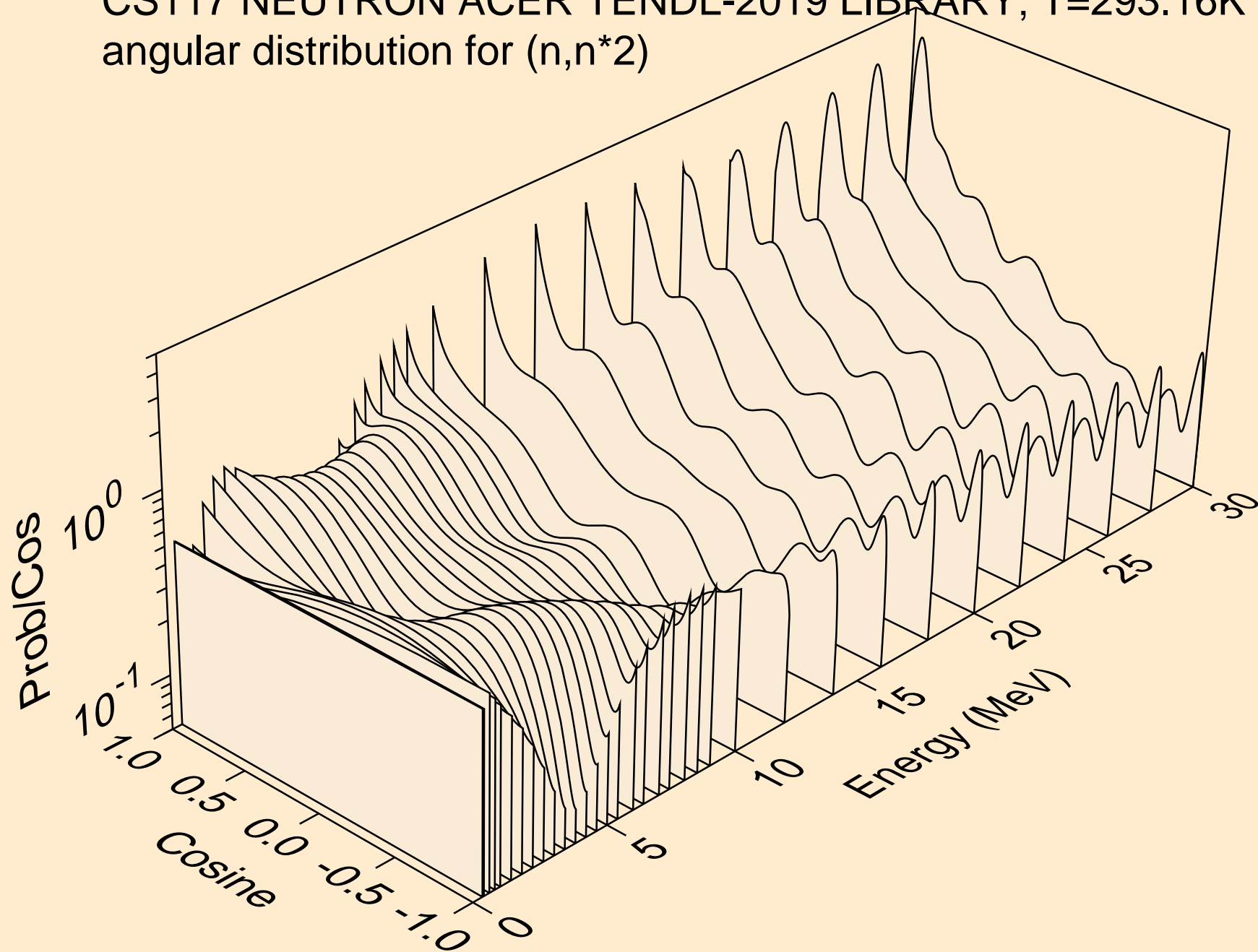
CS117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for elastic



CS117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*1)

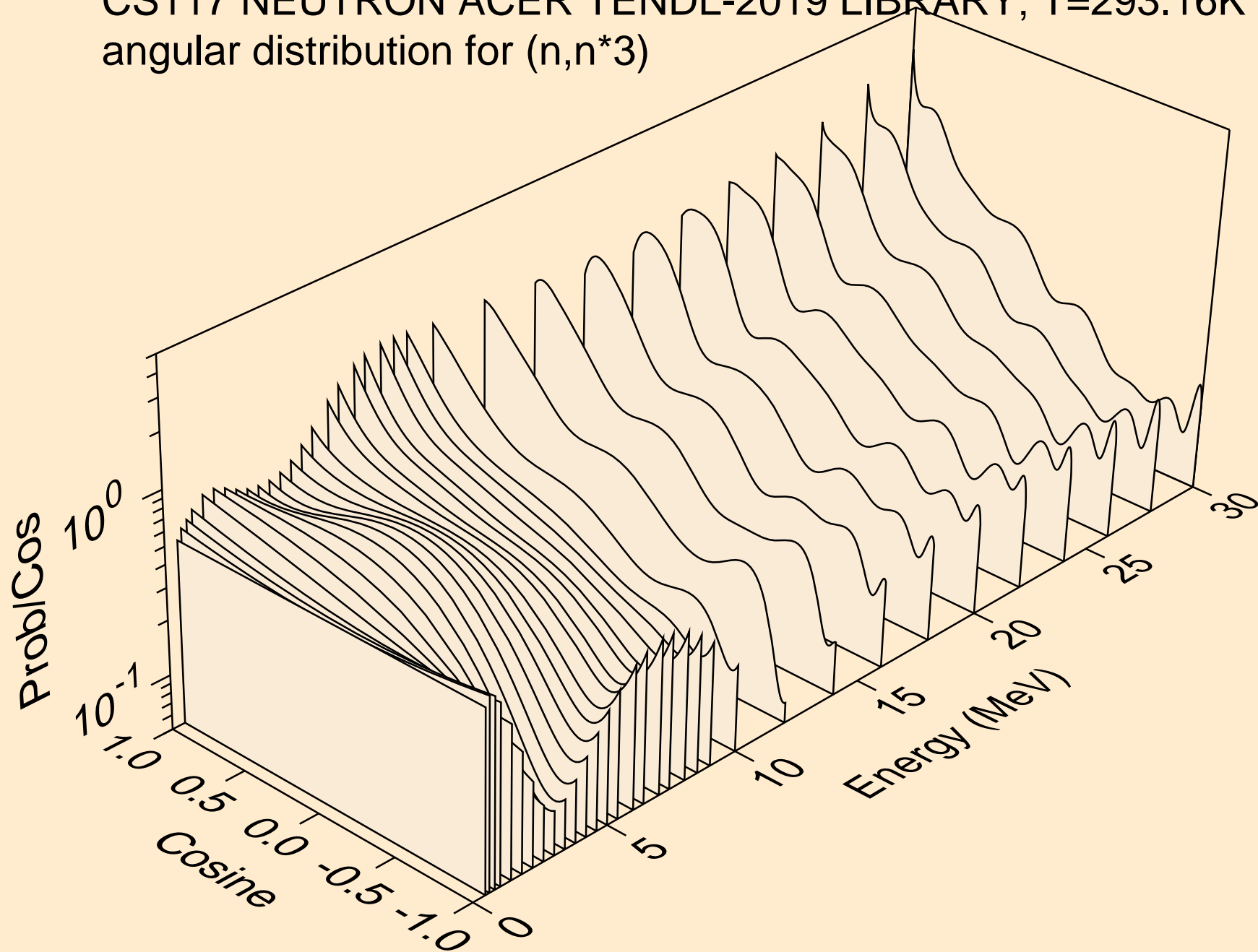


CS117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*2)

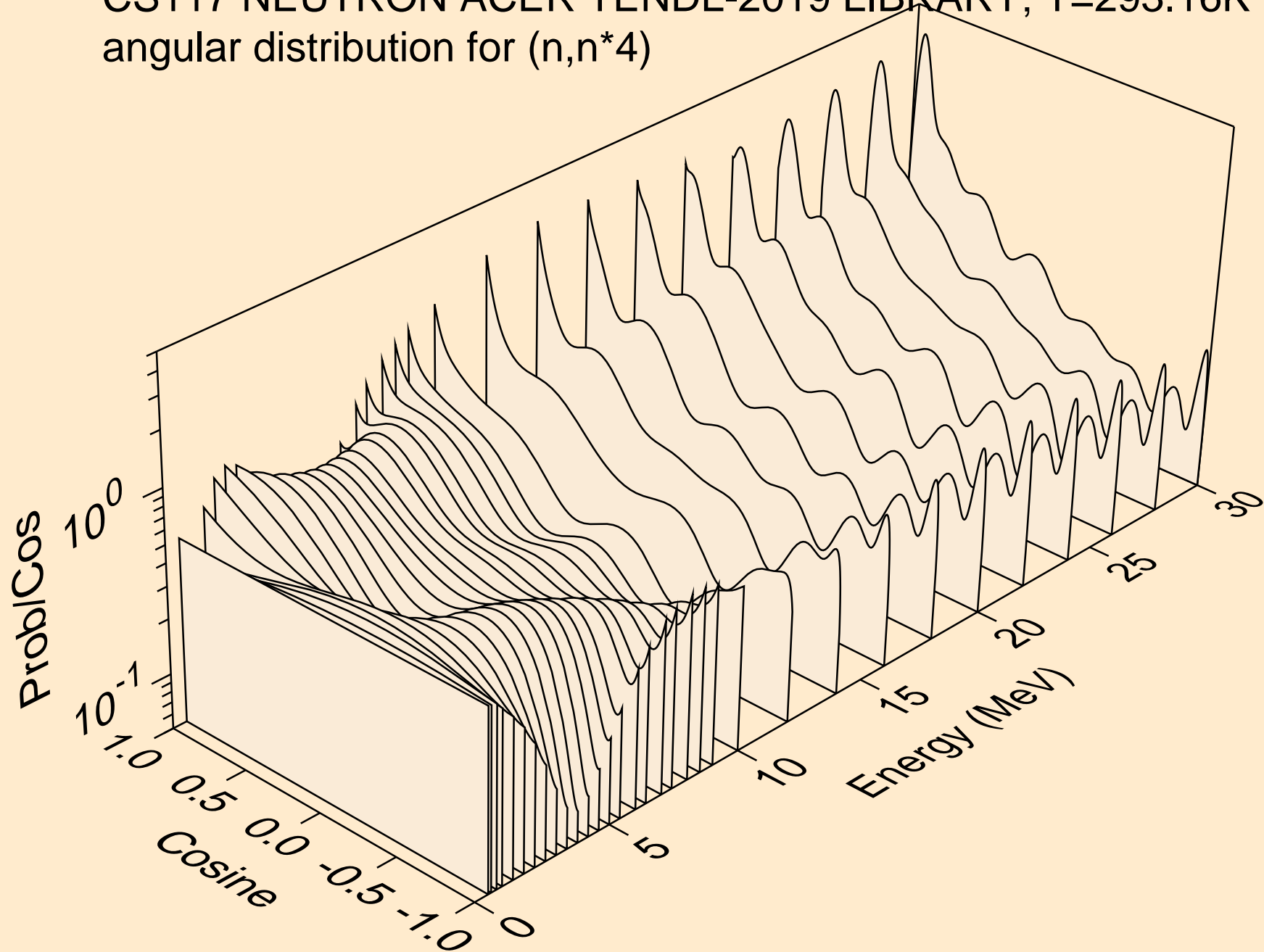




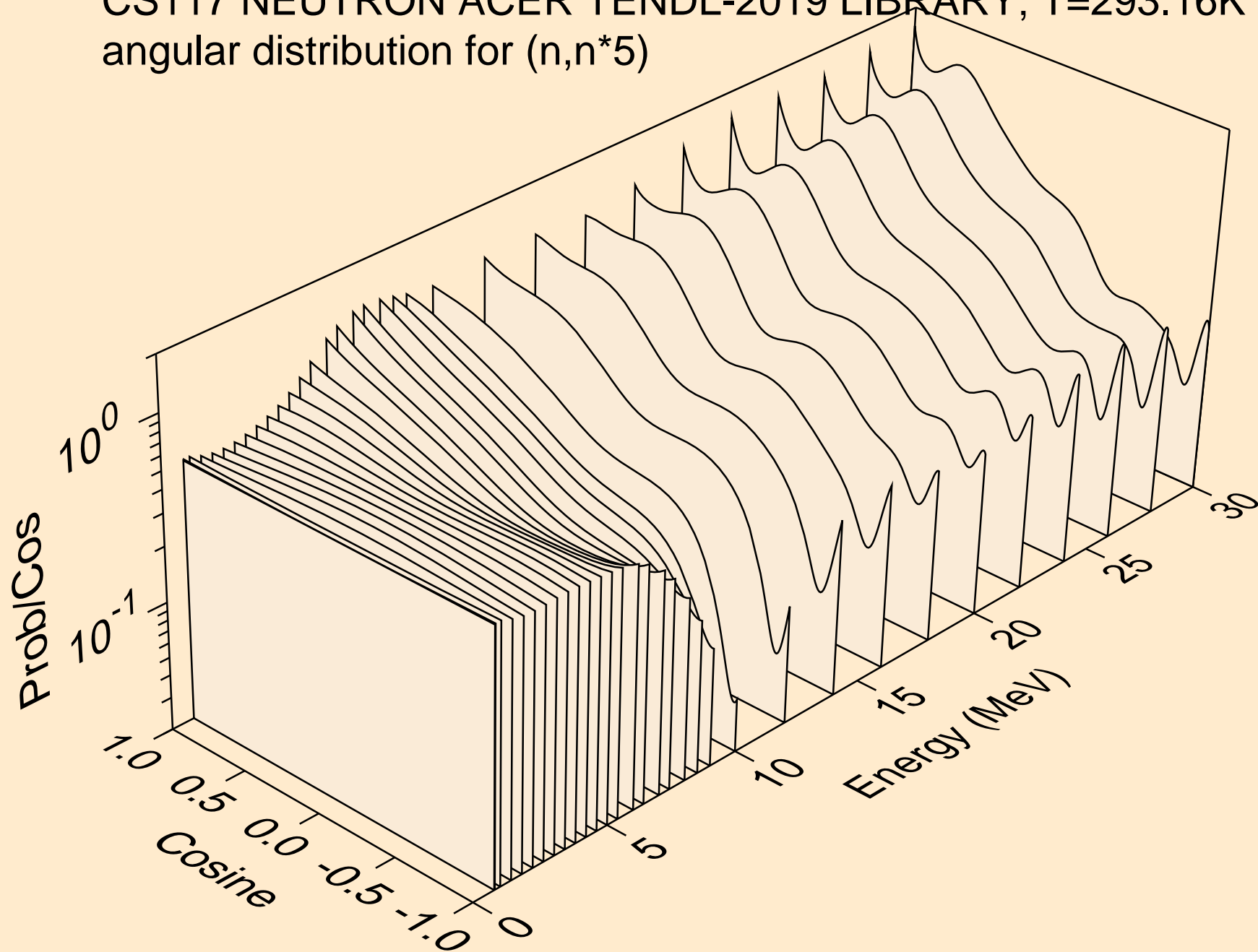
CS117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*3)



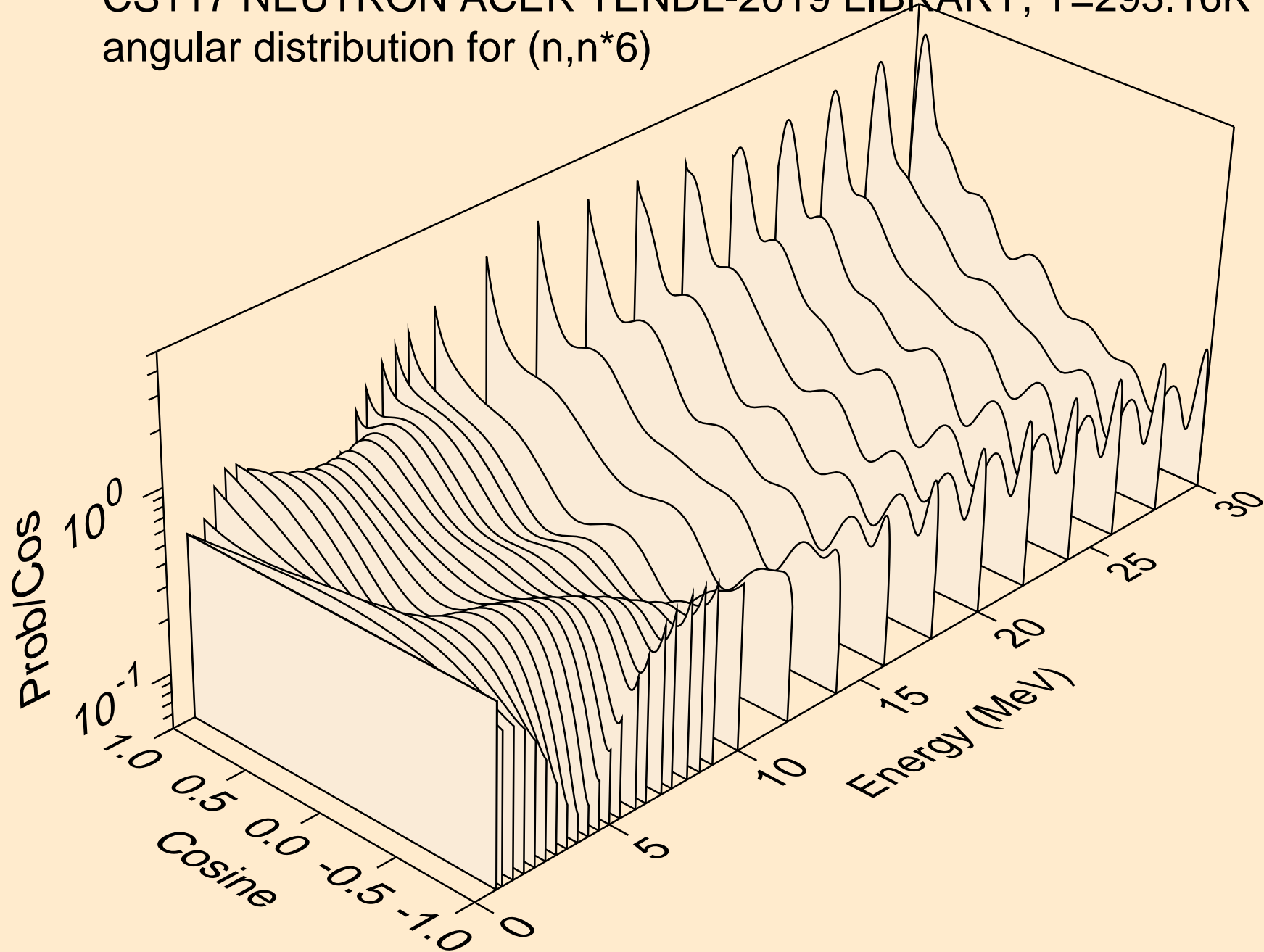
CS117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*4)



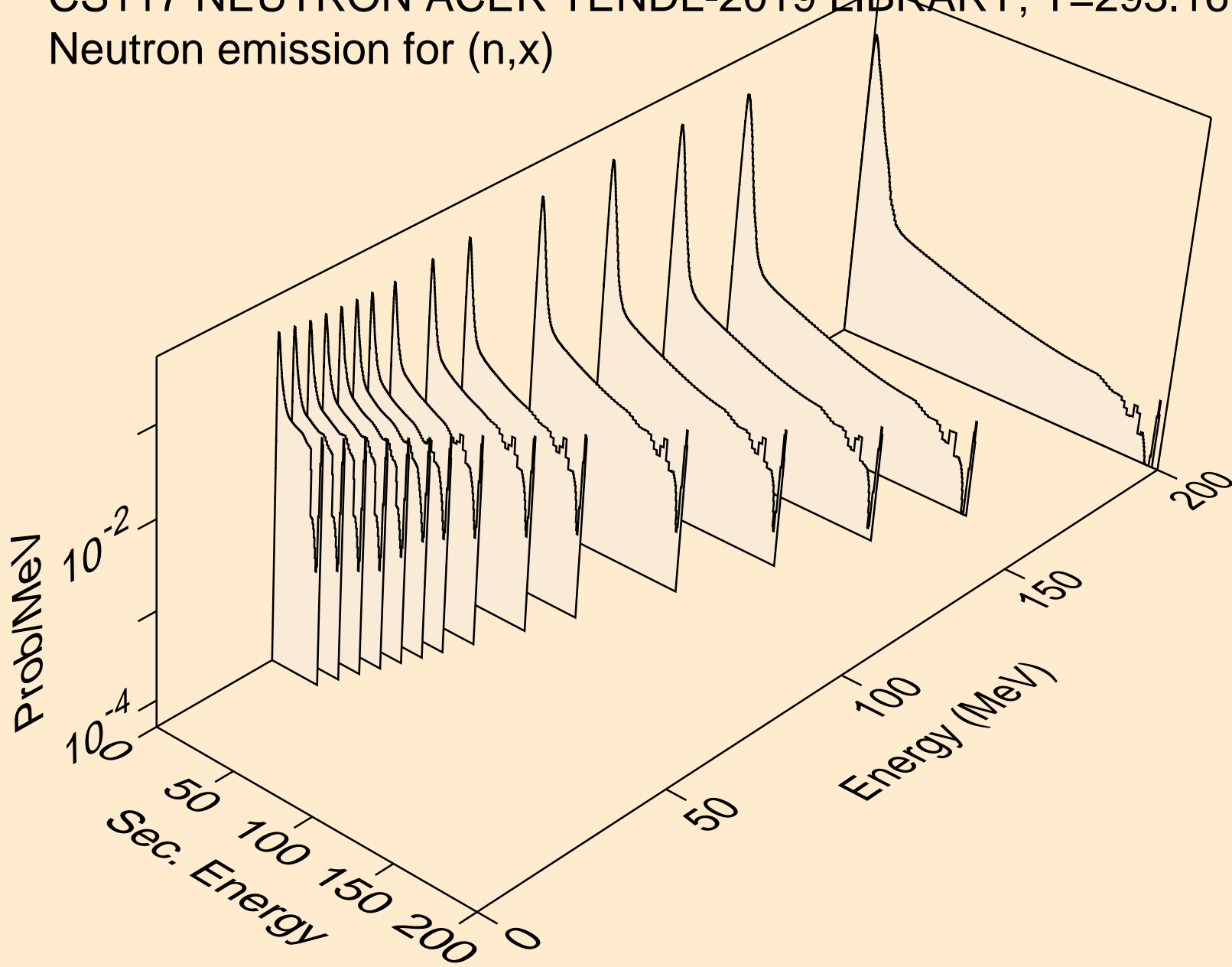
CS117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*5)



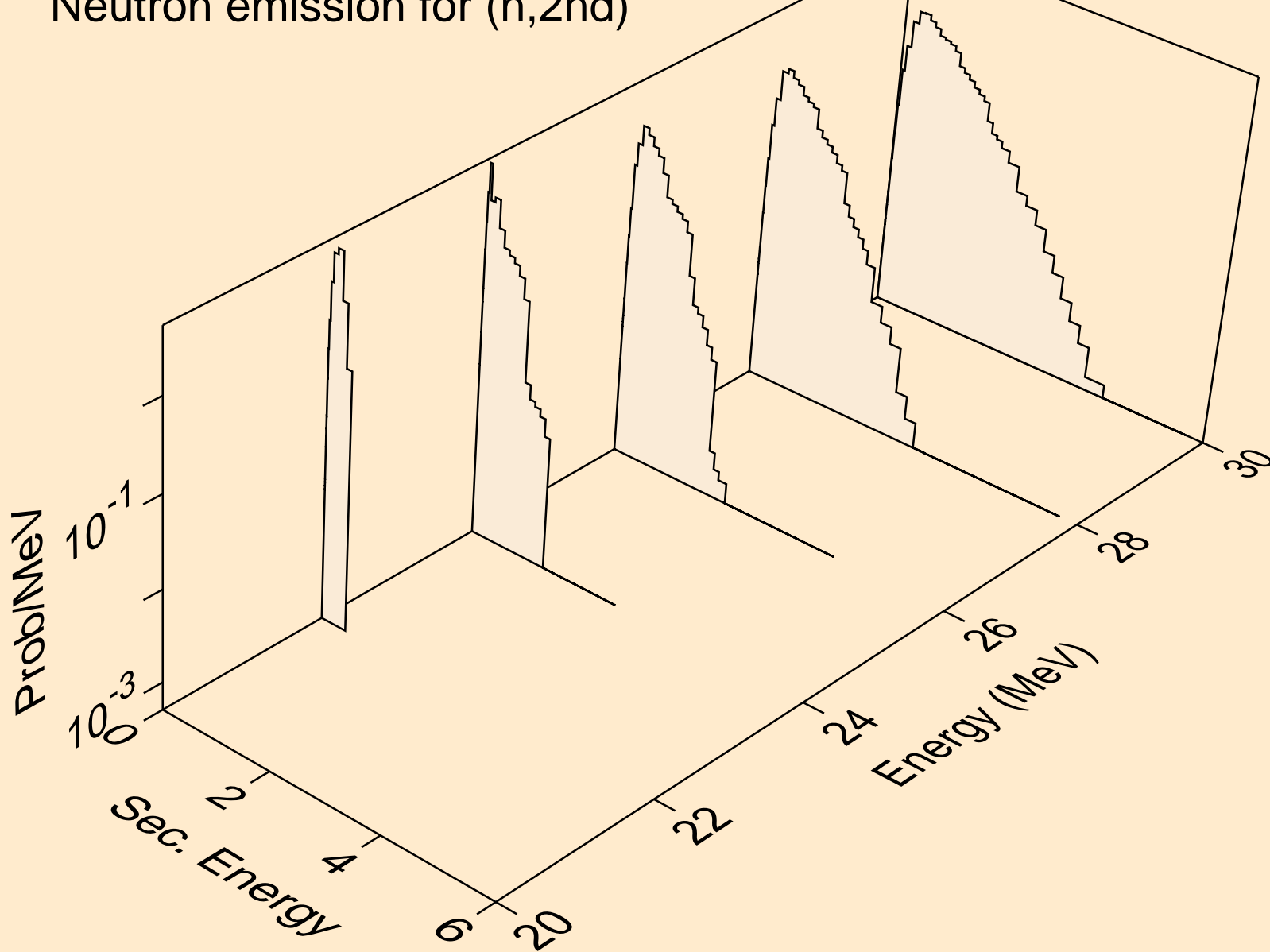
CS117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*6)



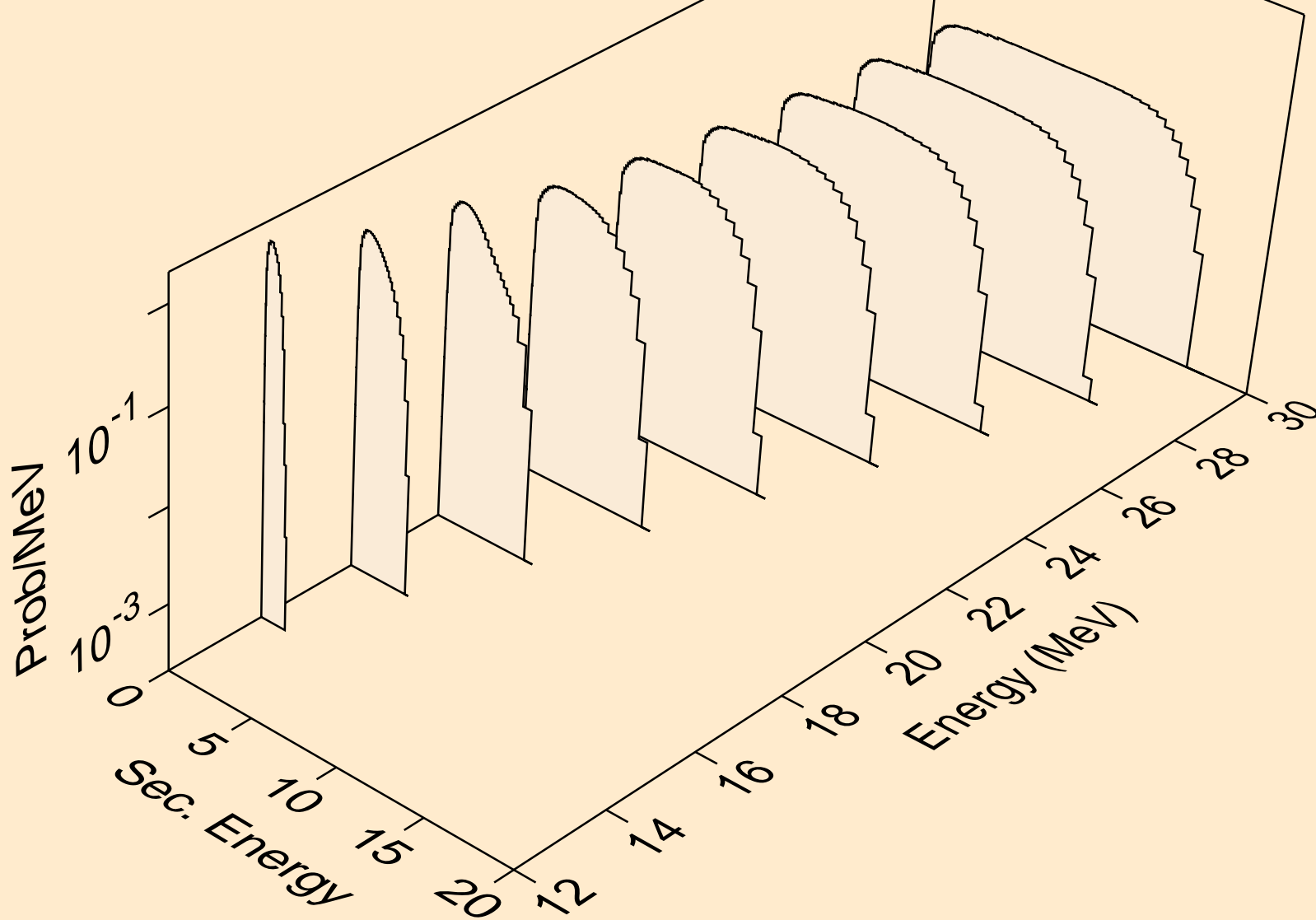
CS117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,x)



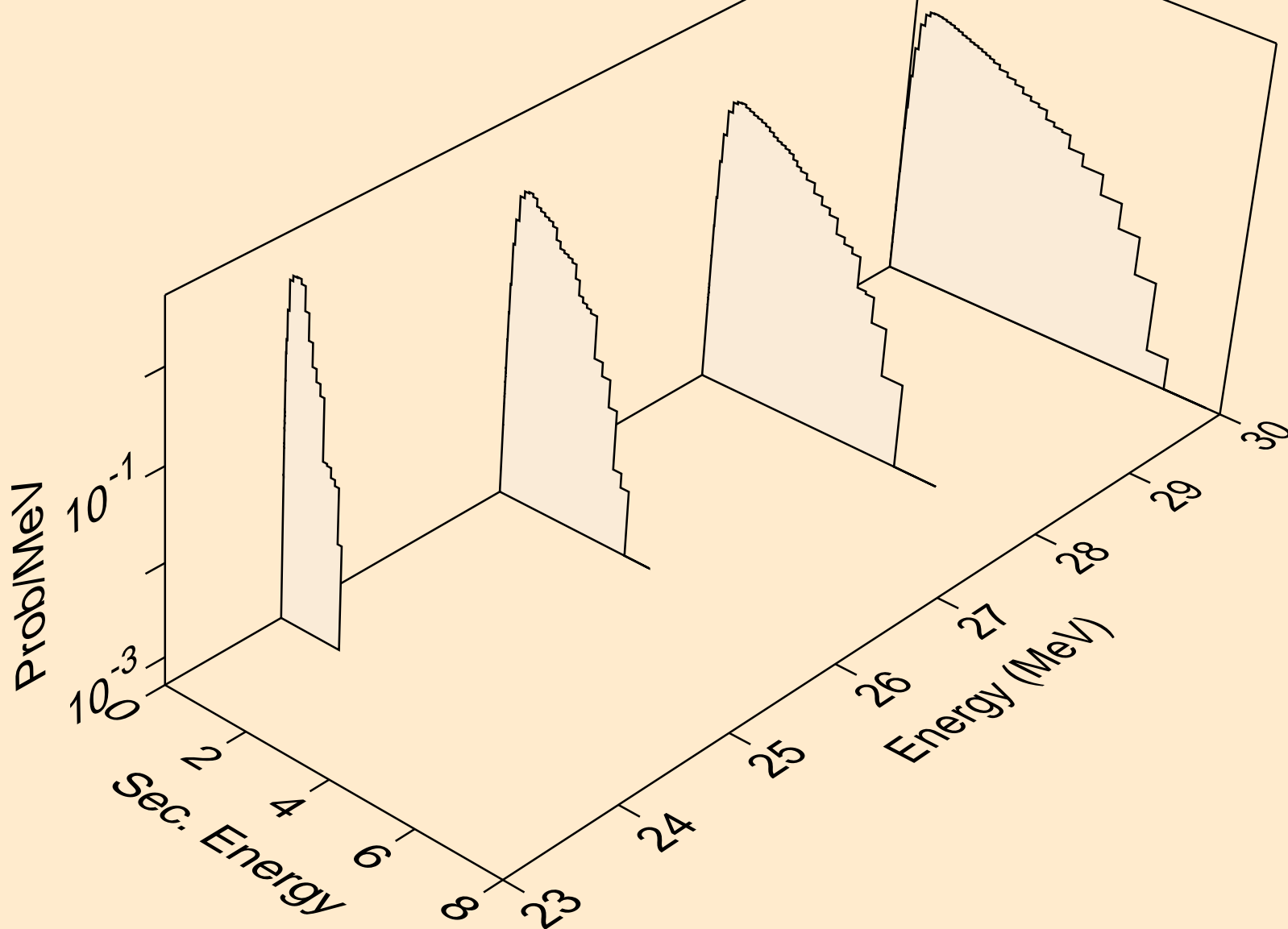
CS117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,2nd)



CS117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,2n)

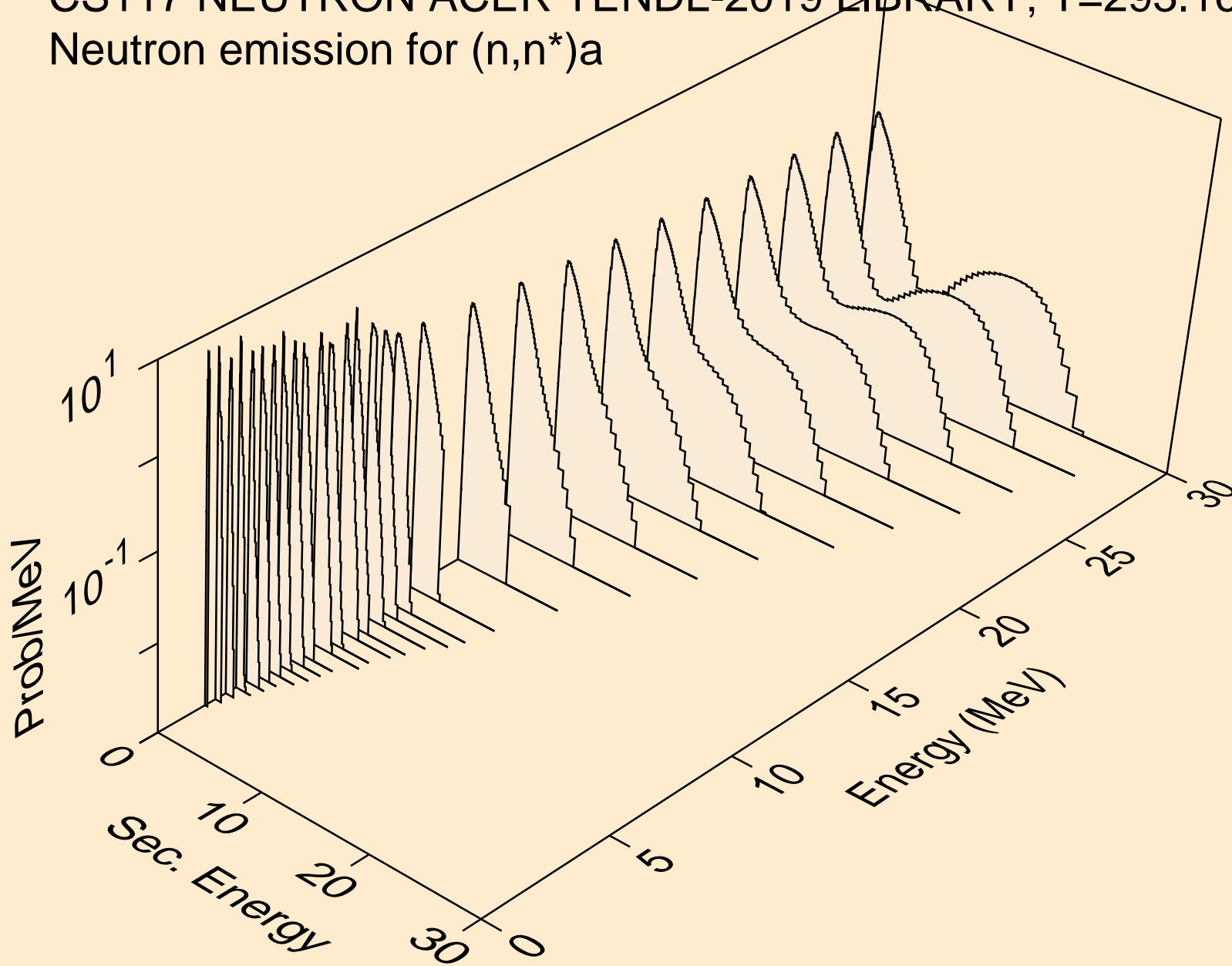


CS117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,3n)

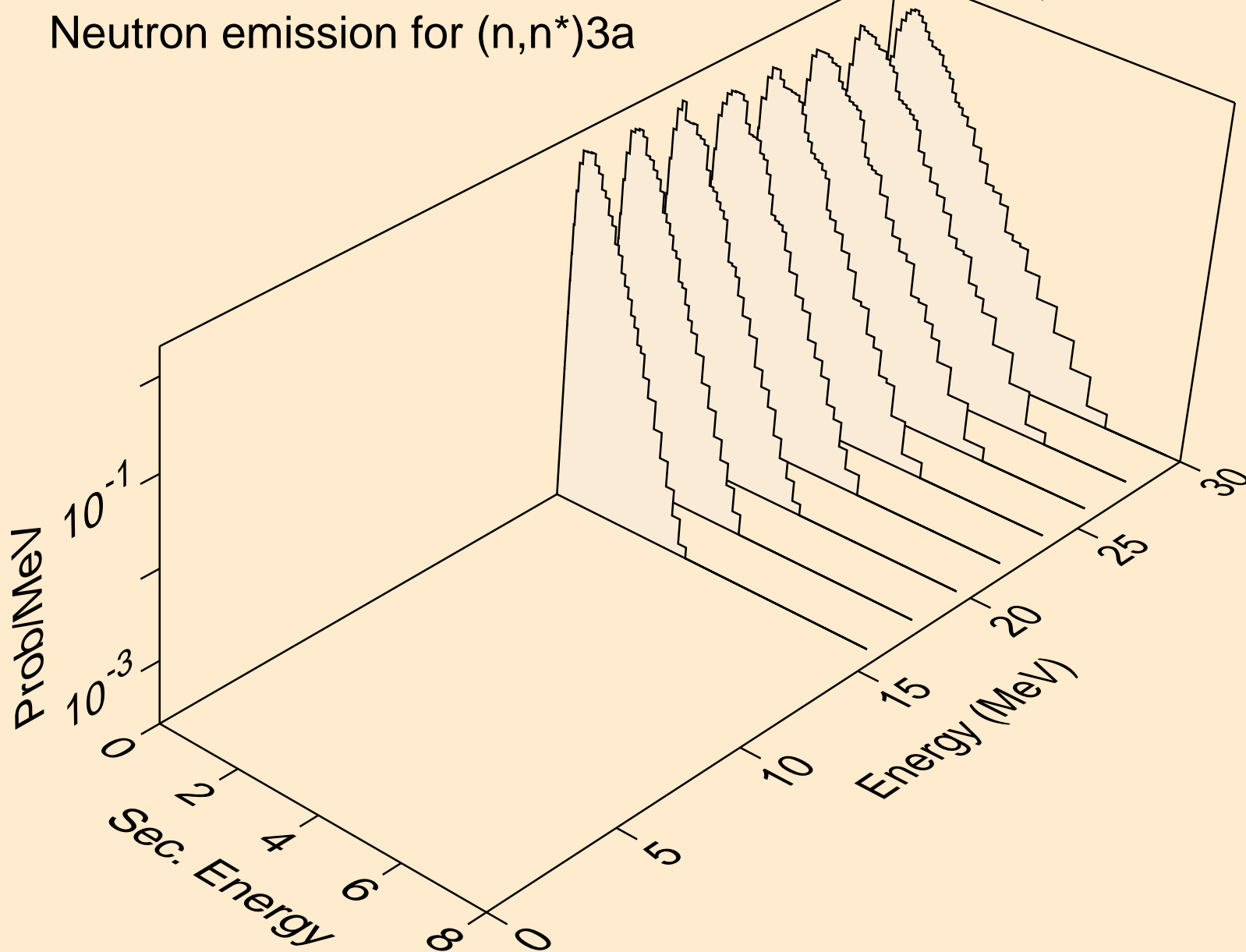




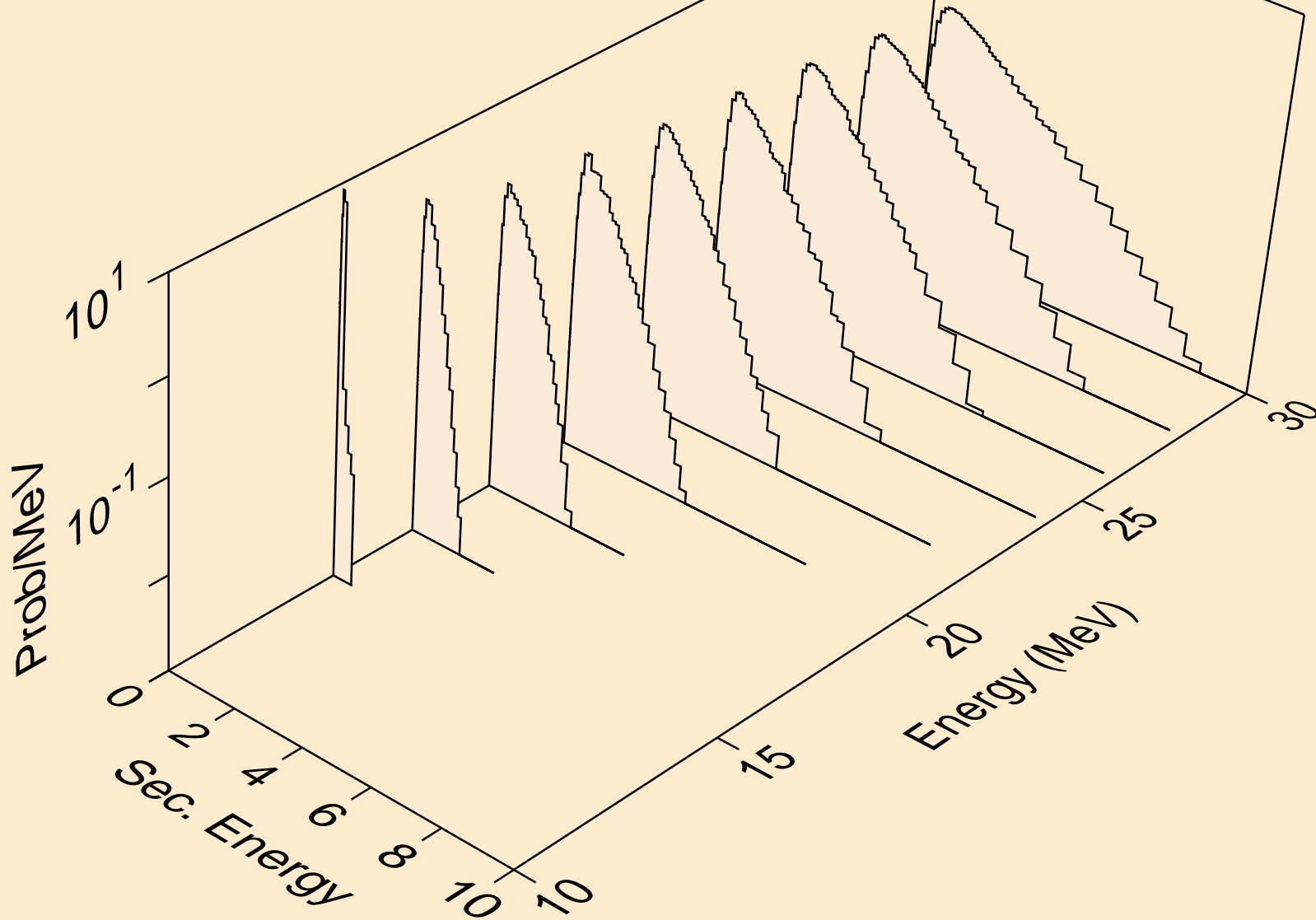
CS117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,n\*)a



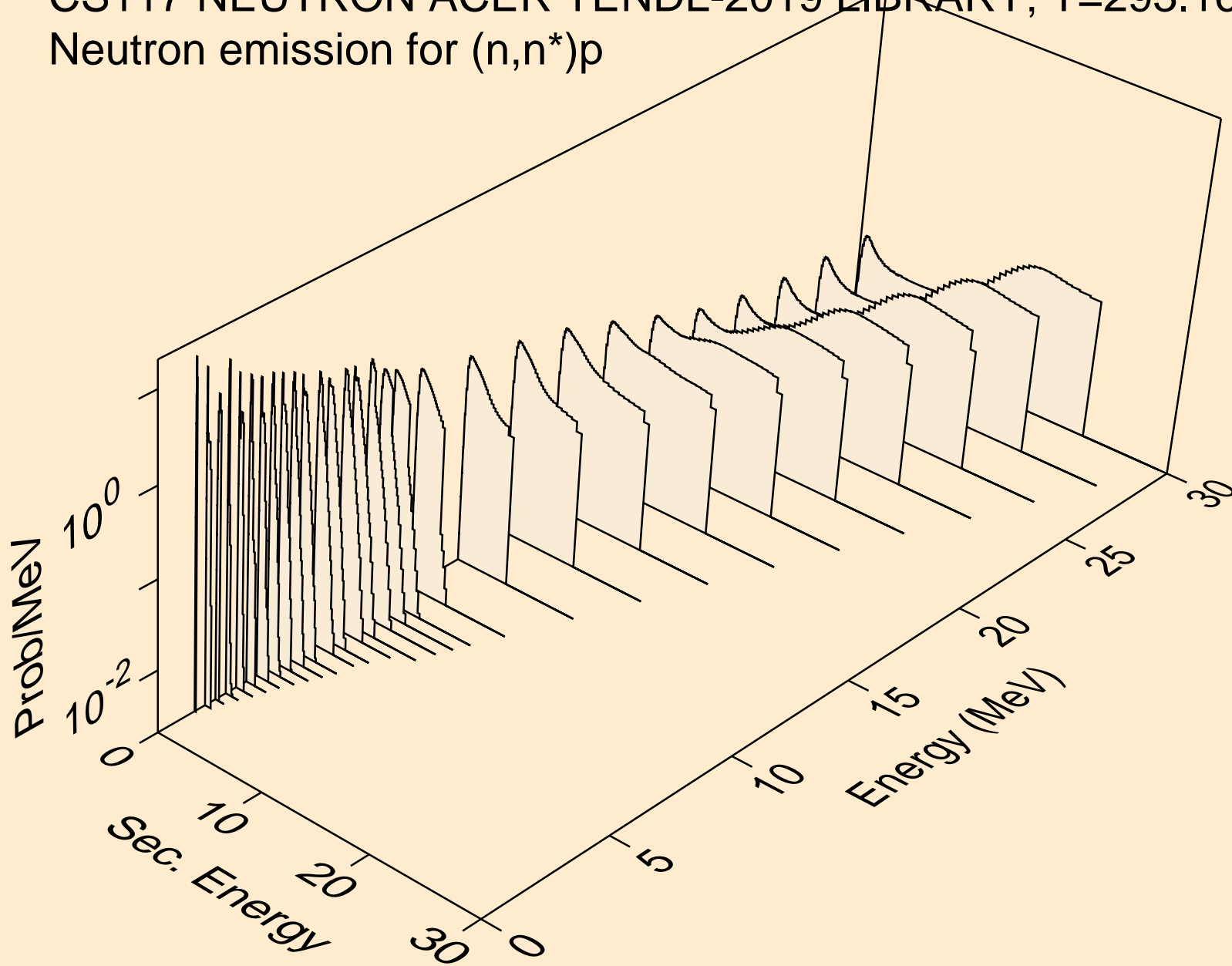
CS117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,n\*)3a



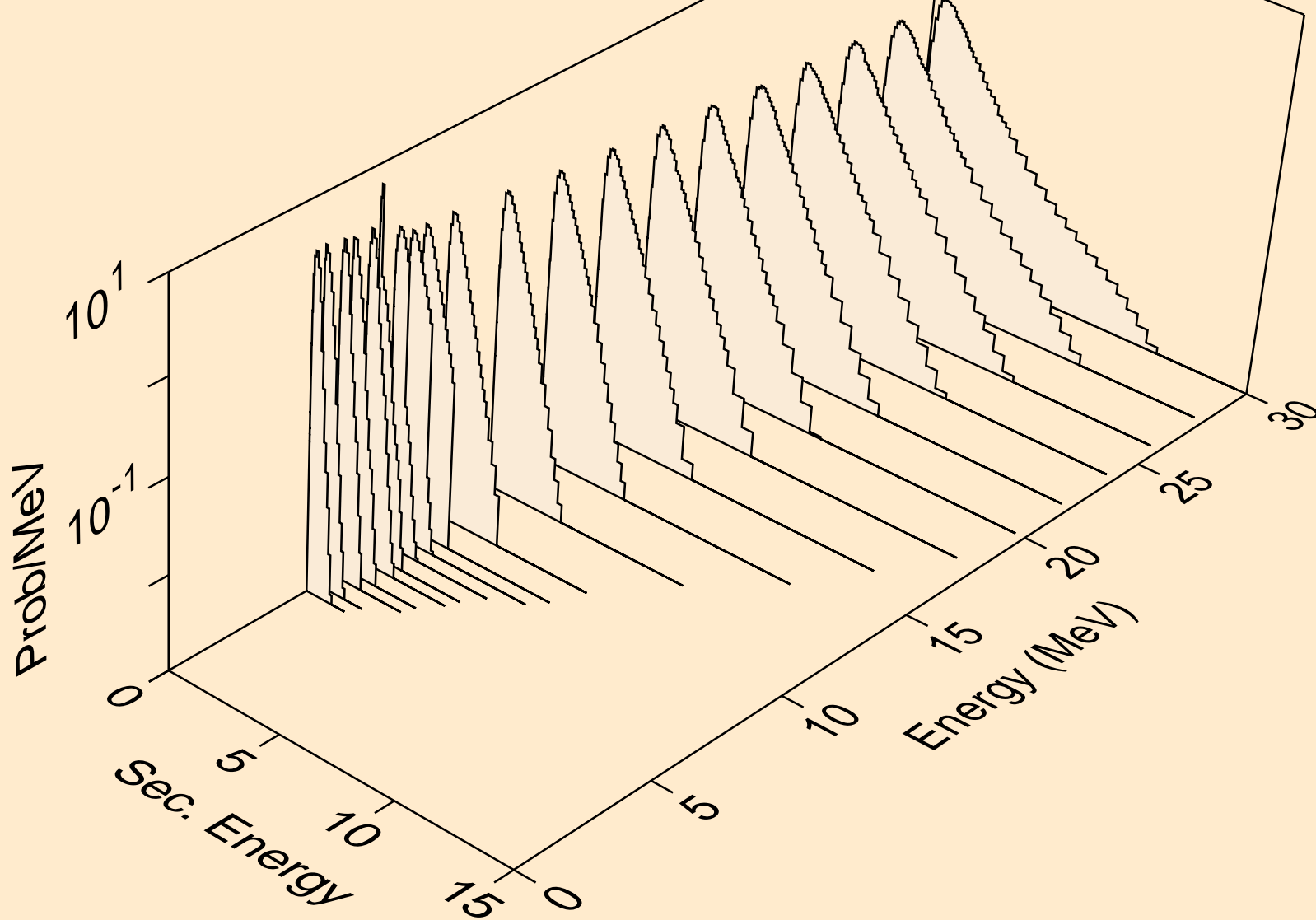
CS117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,2n)a



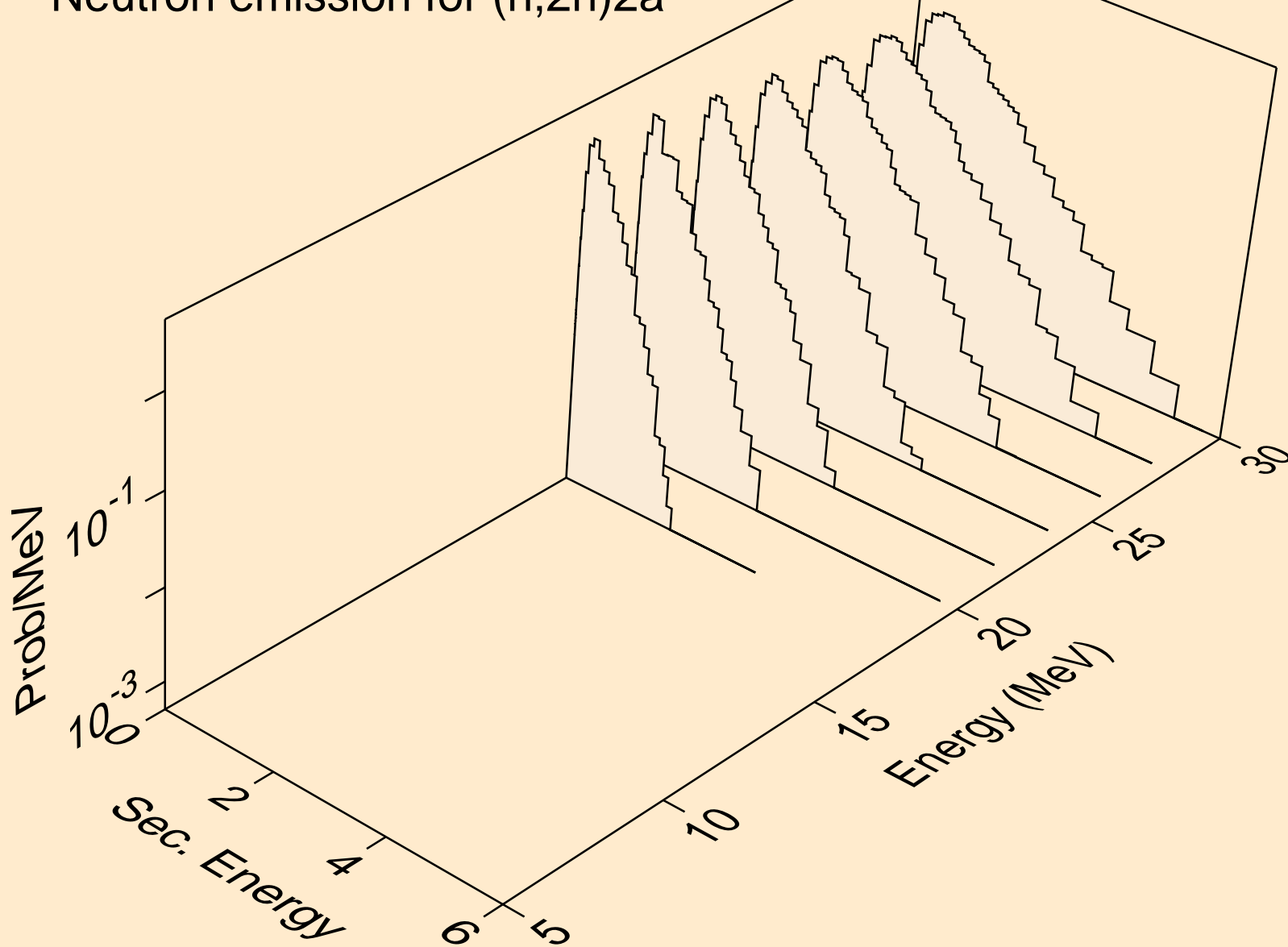
CS117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,n\*)p



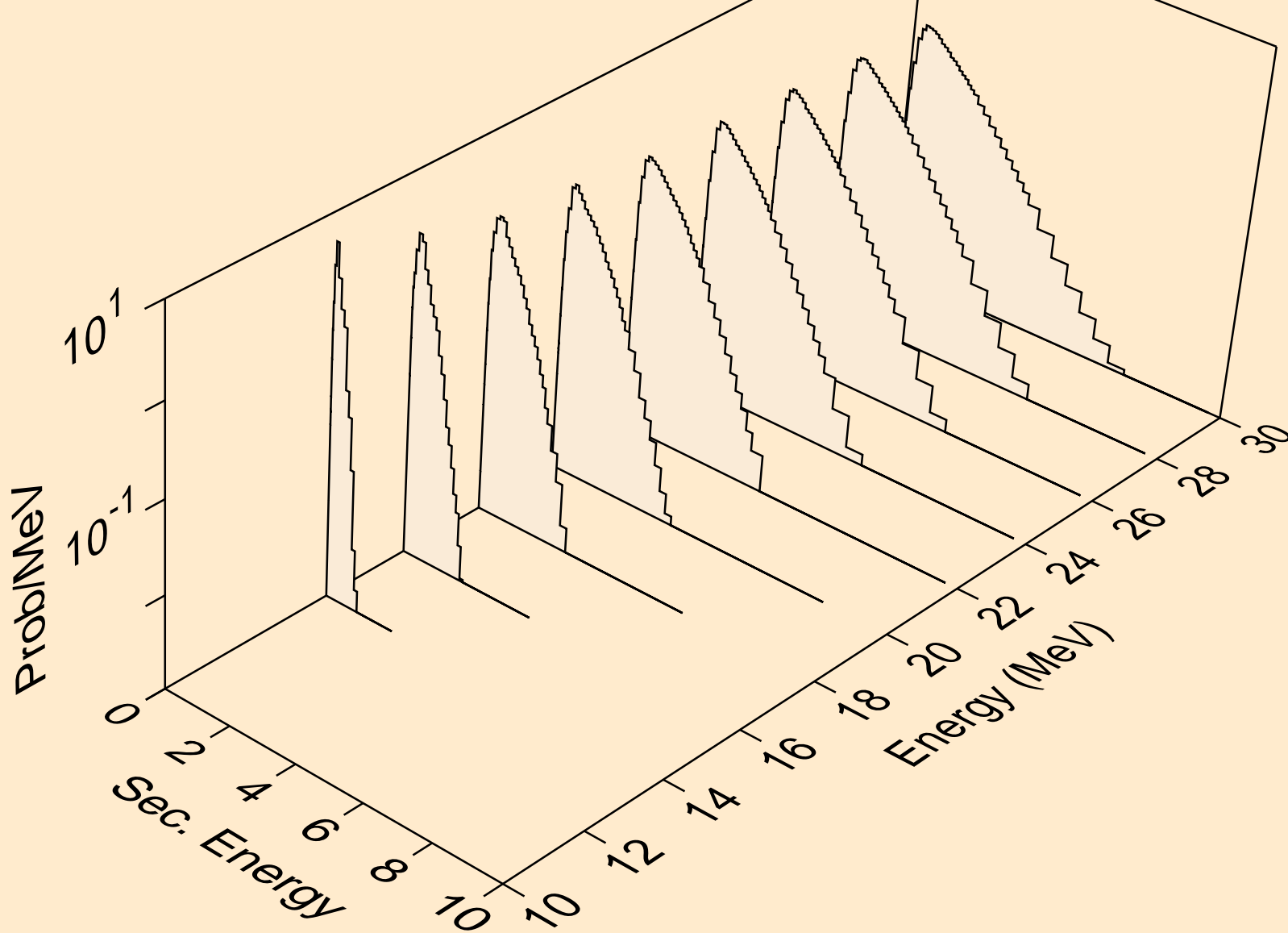
CS117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,n\*)2a



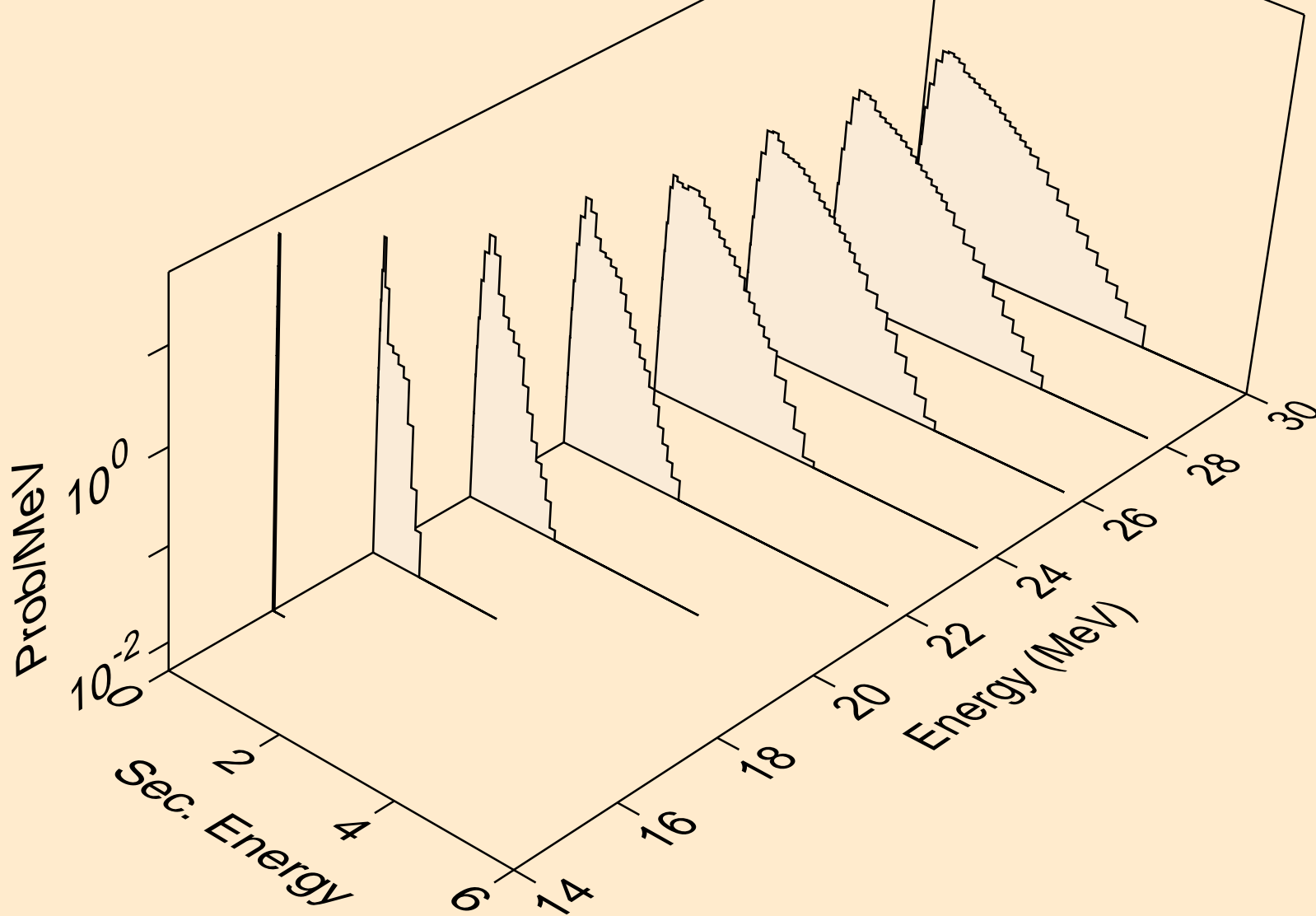
CS117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,2n)2a



CS117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,n\*)d

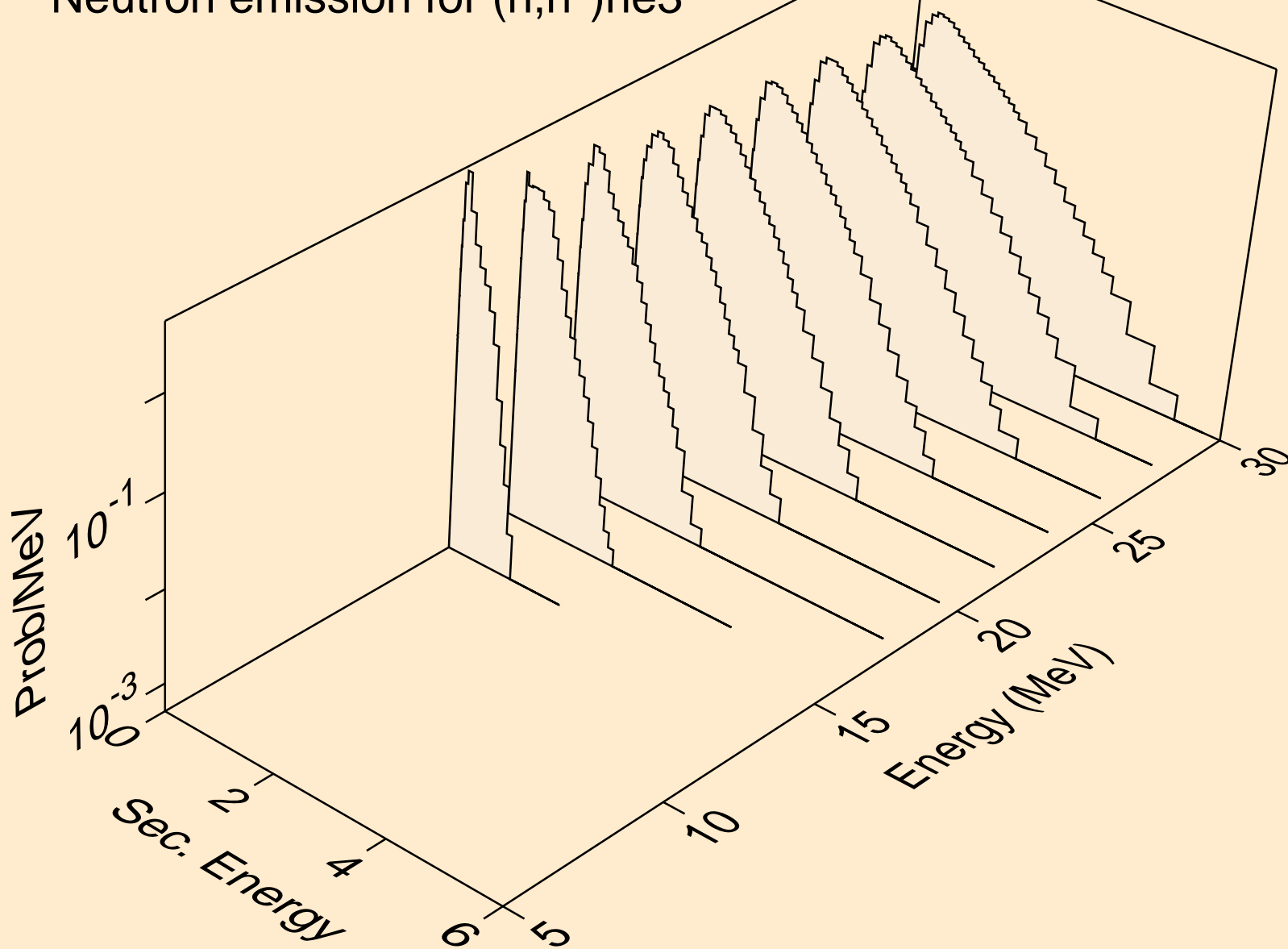


CS117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,n\*)t

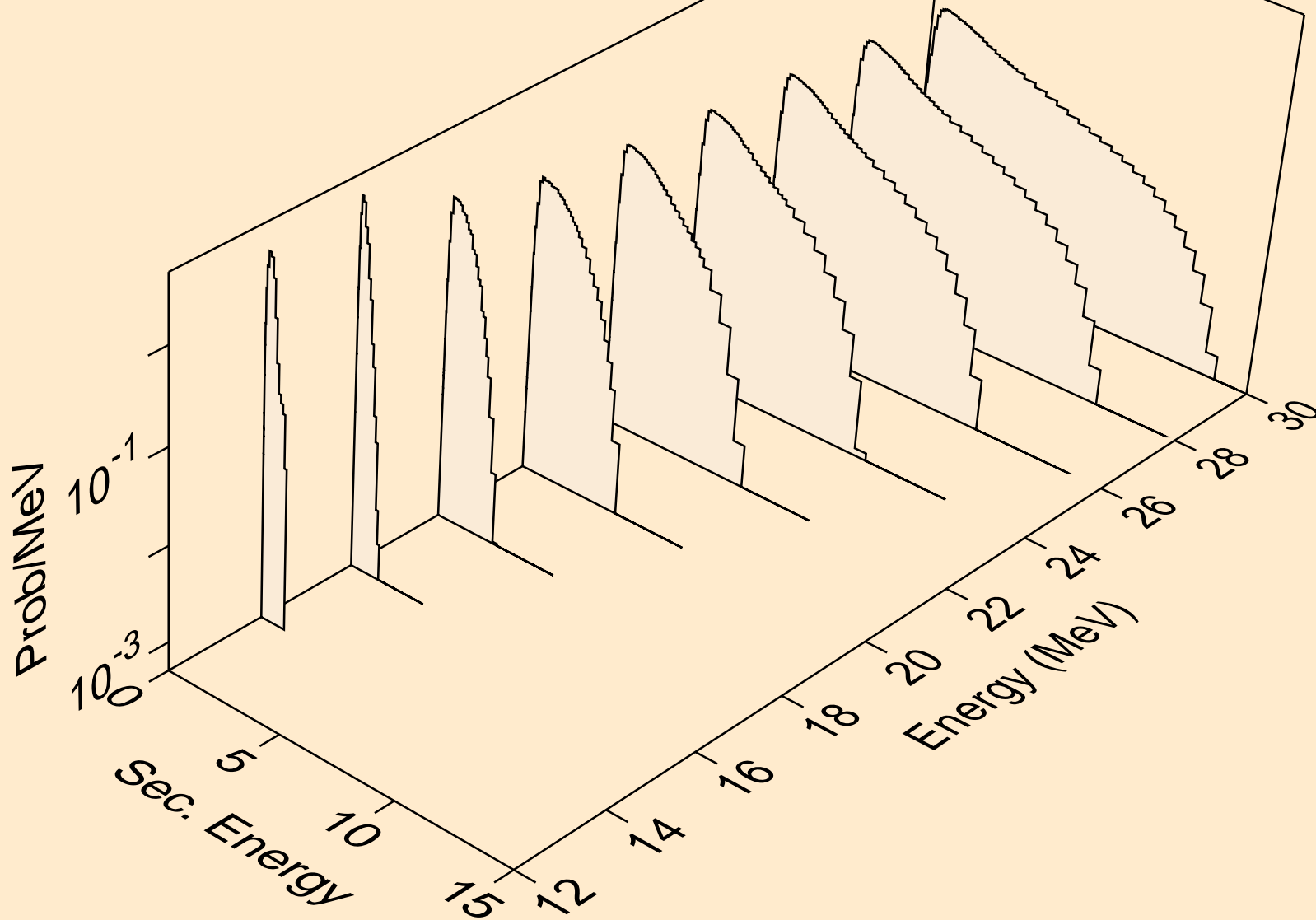




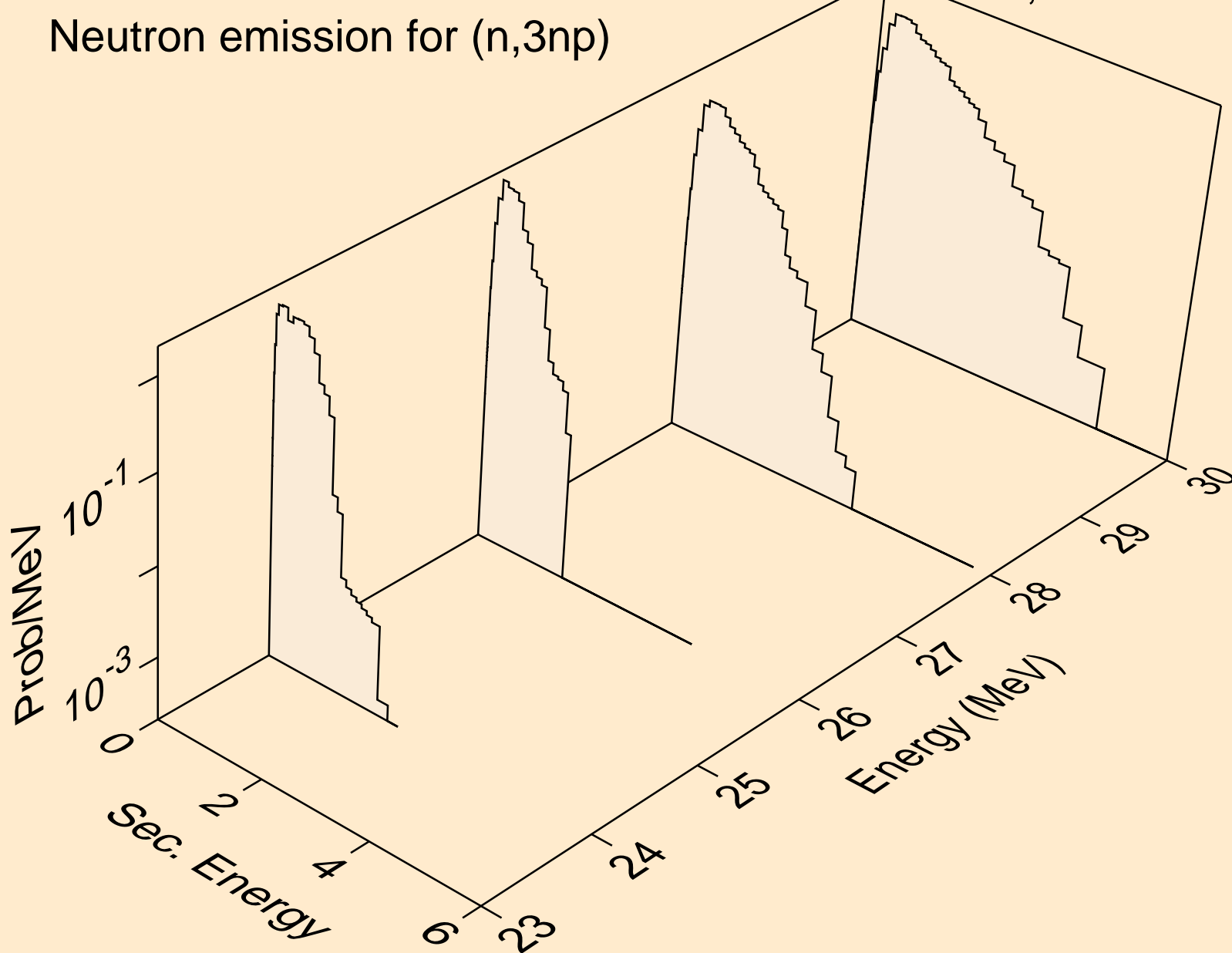
CS117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,n\*)he3



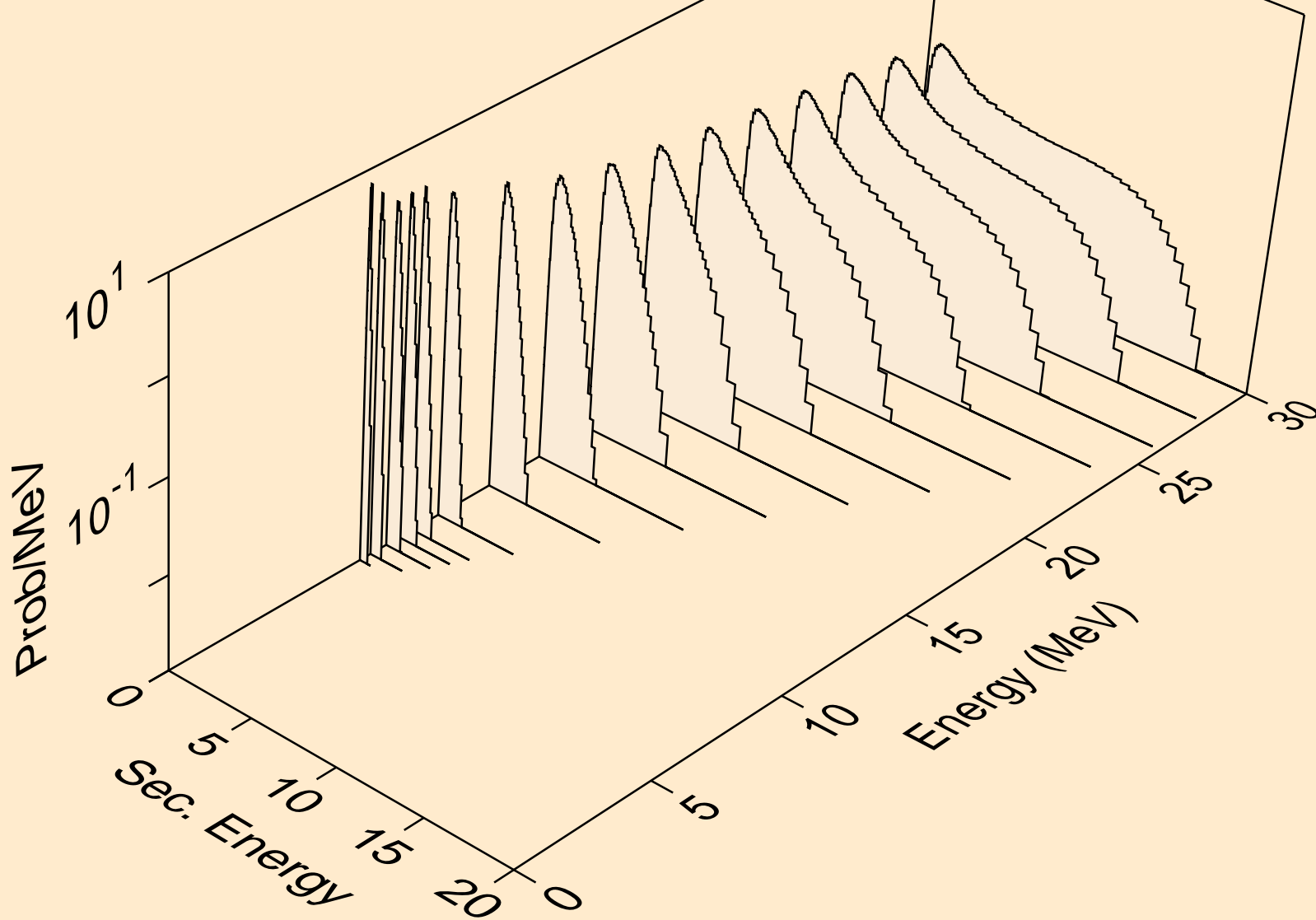
CS117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,2np)



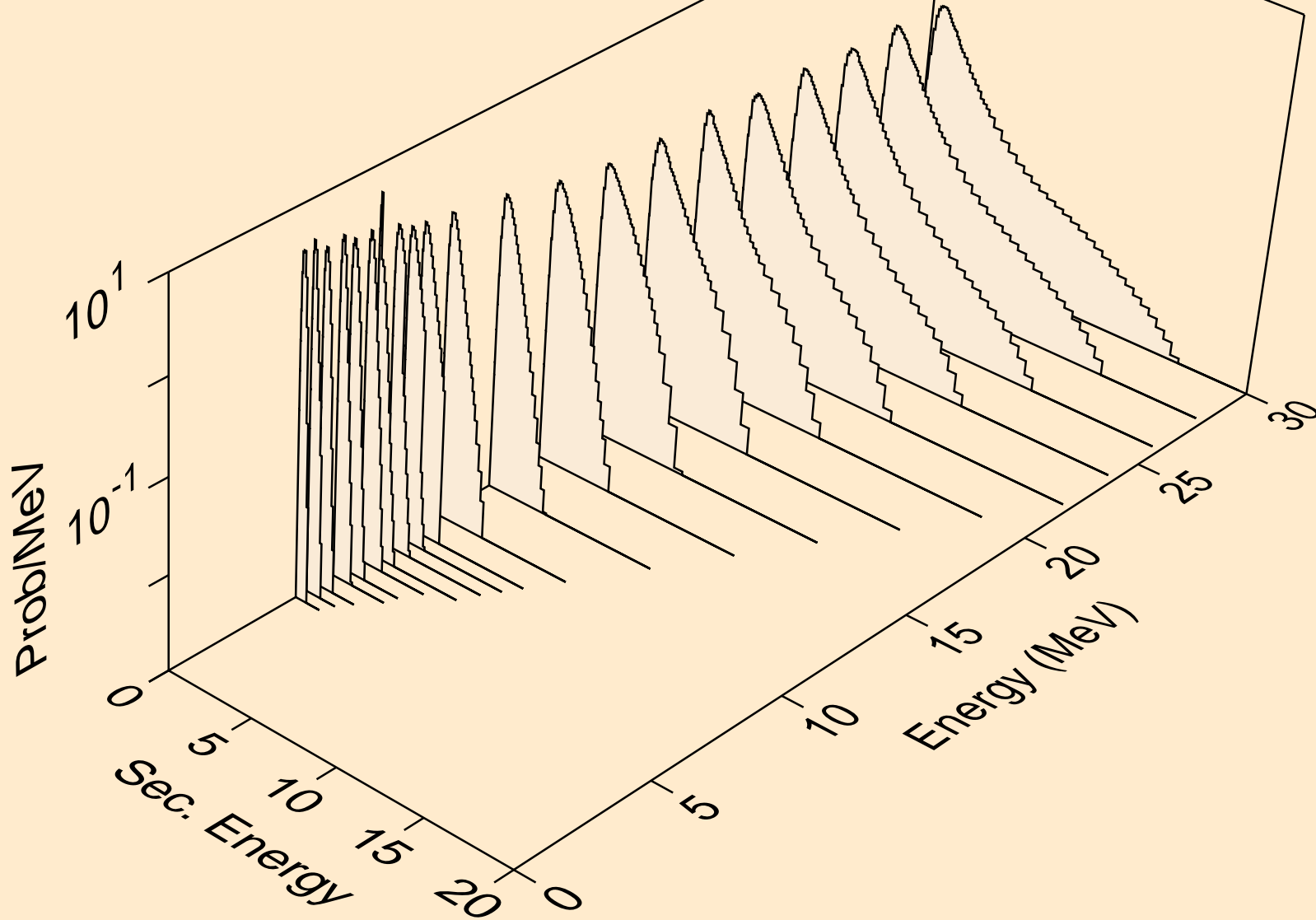
CS117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,3np)



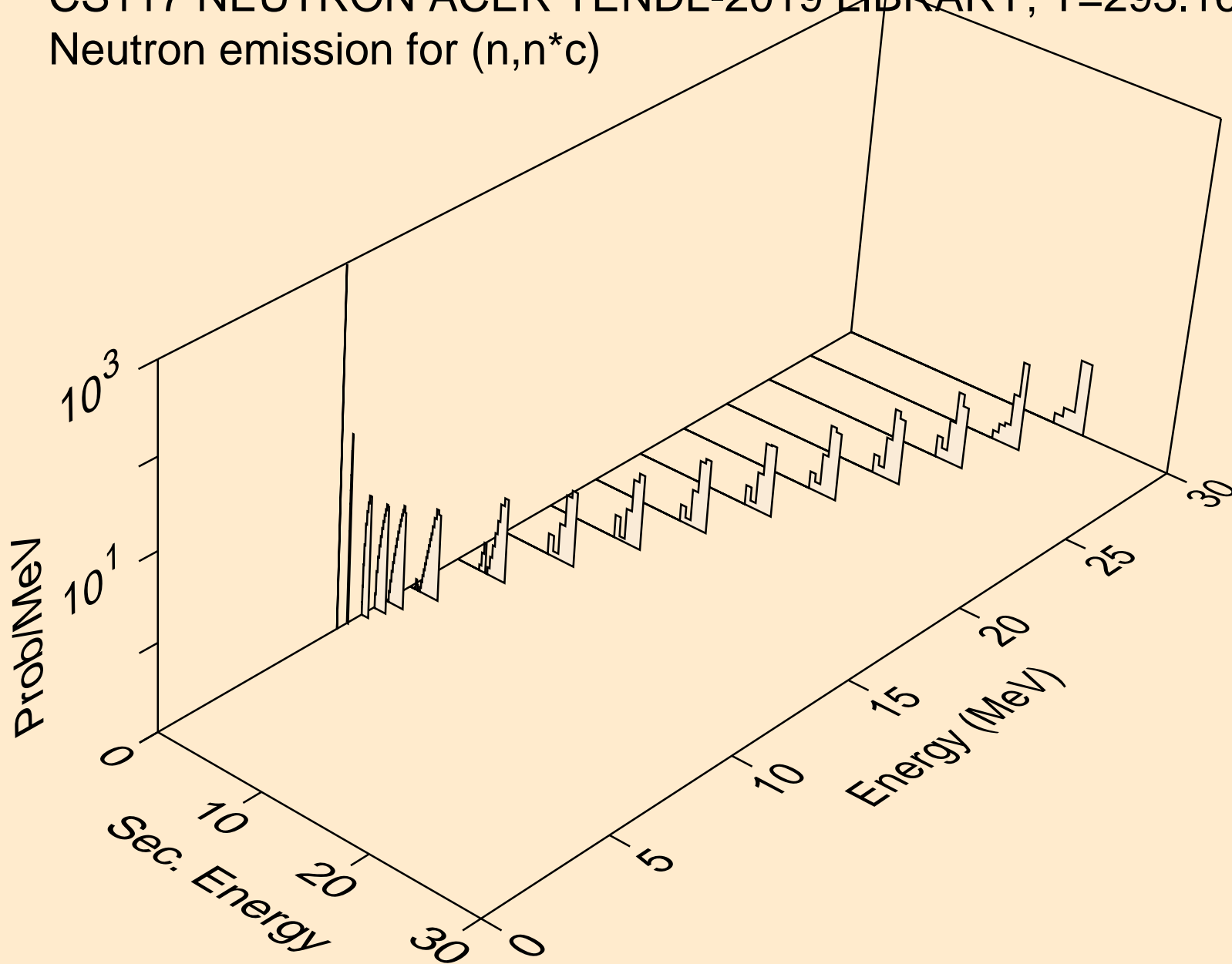
CS117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,2np)



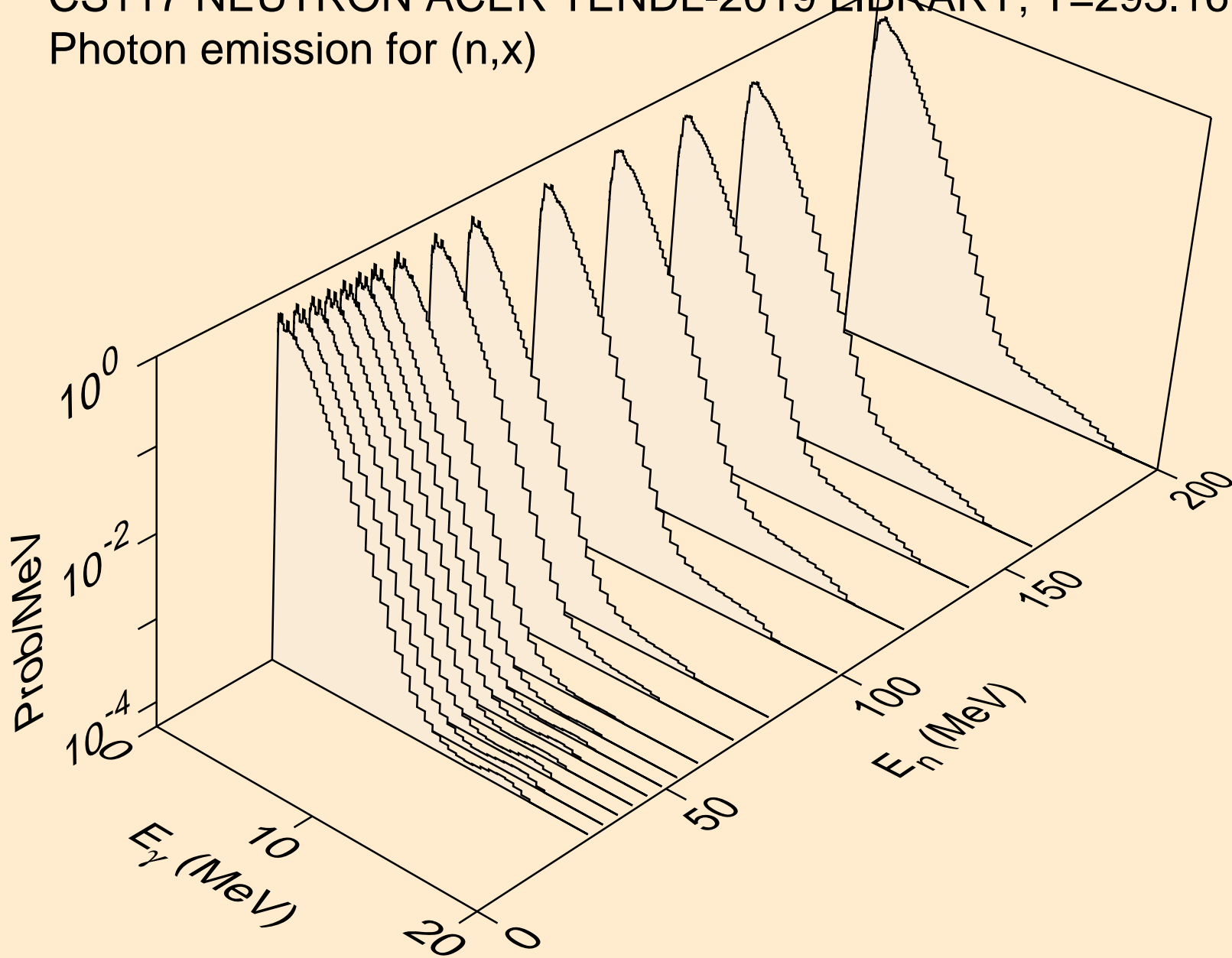
CS117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,npa)



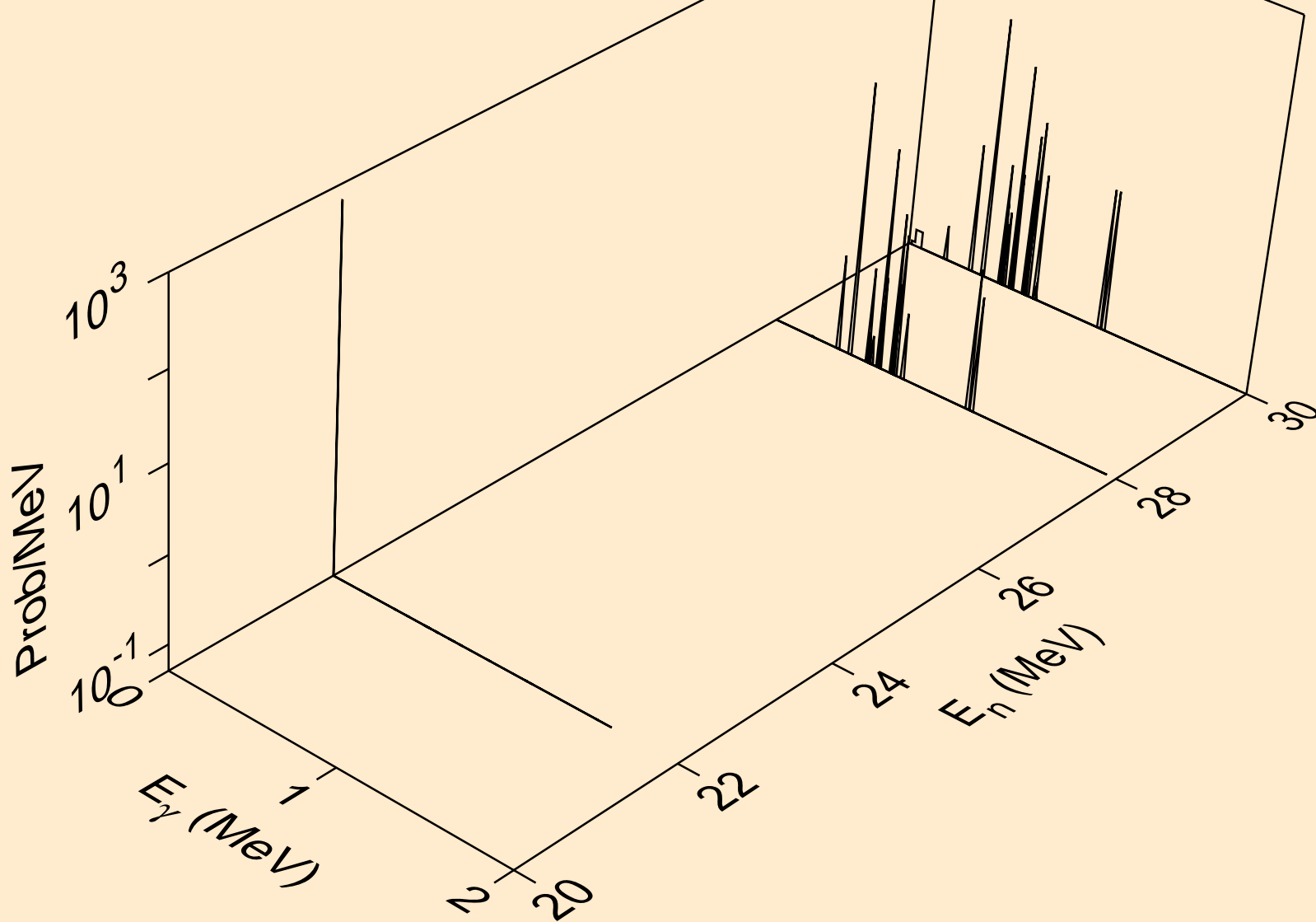
CS117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,n\*c)



CS117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,x)

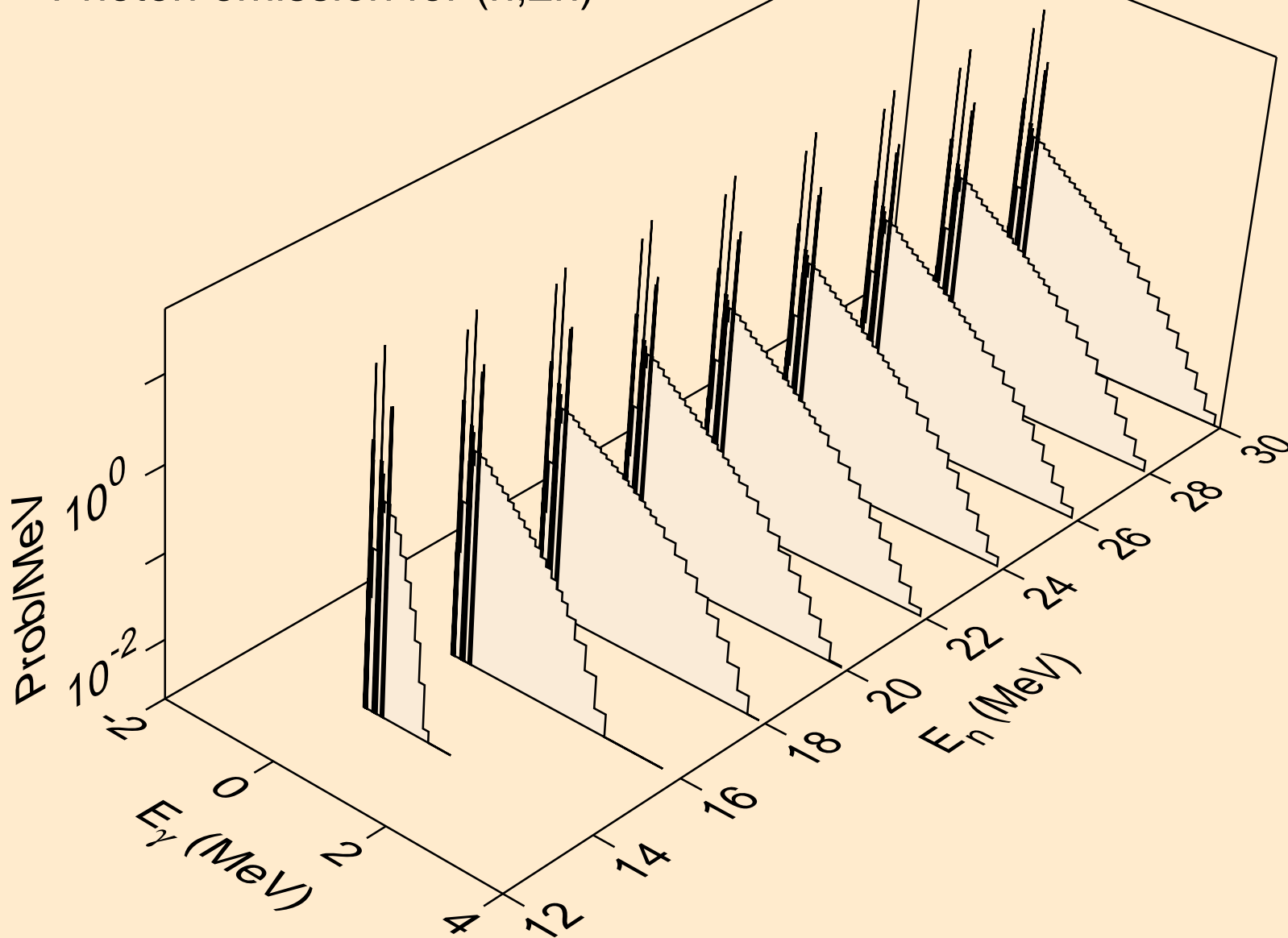


CS117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,2nd)

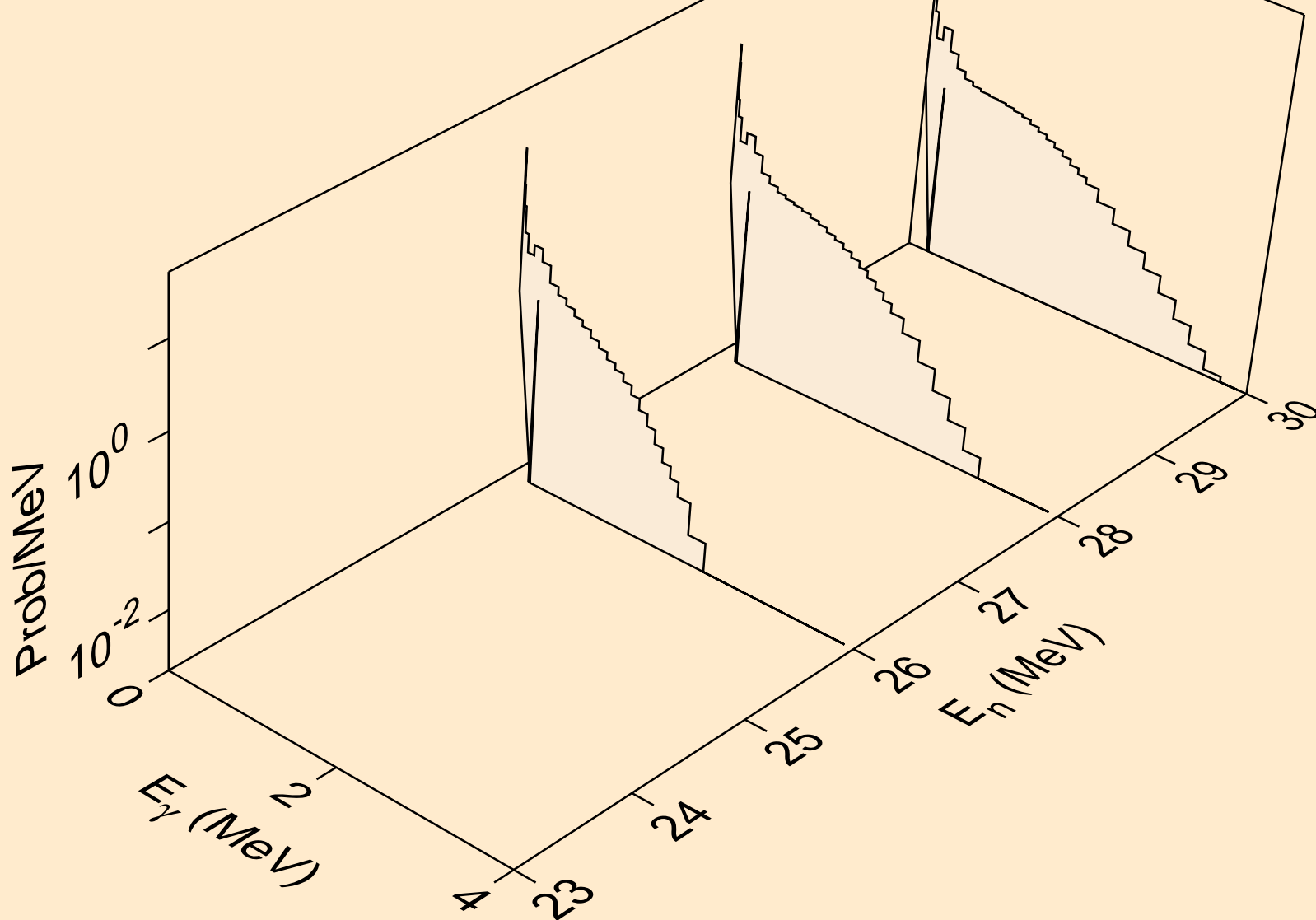




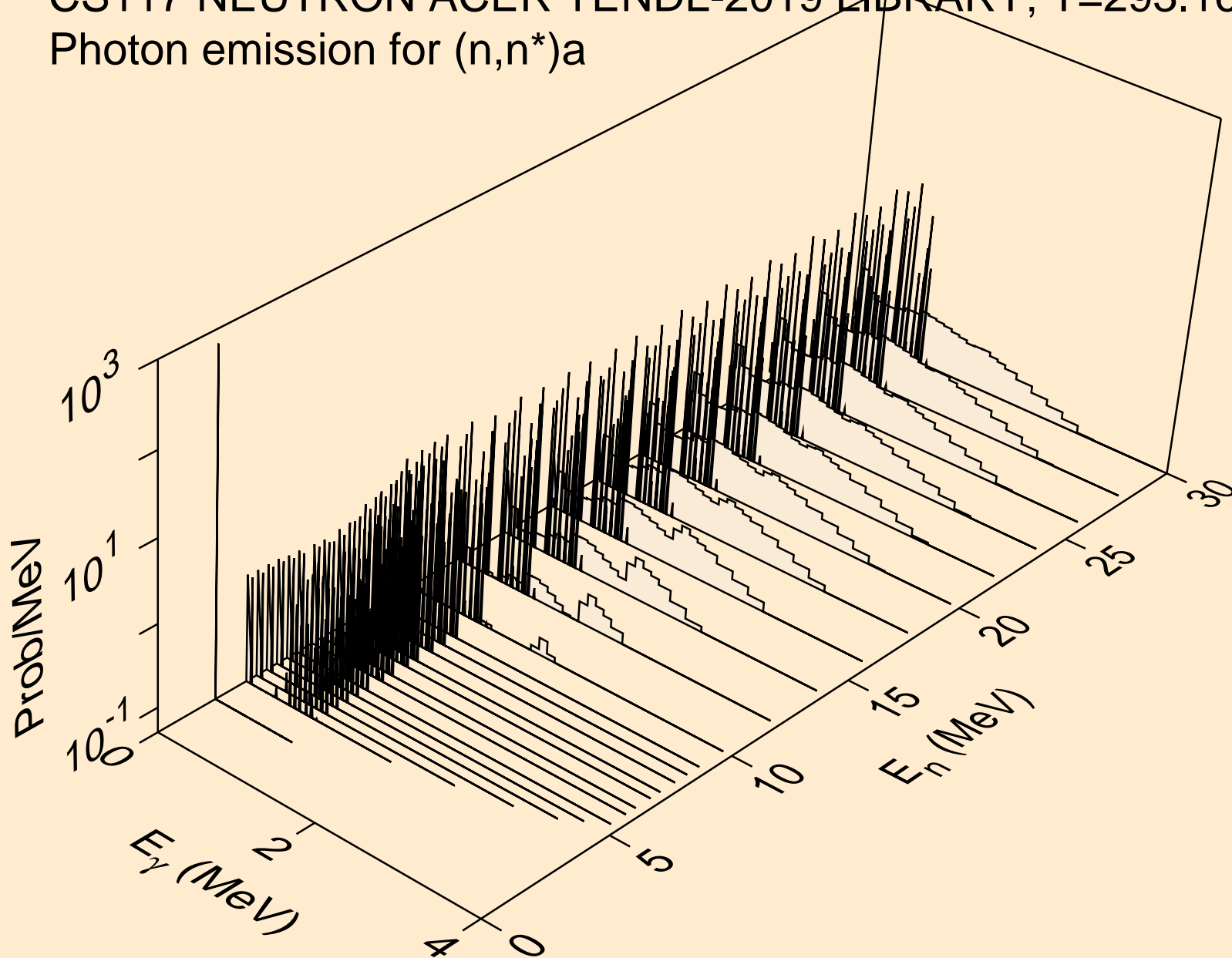
CS117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,2n)



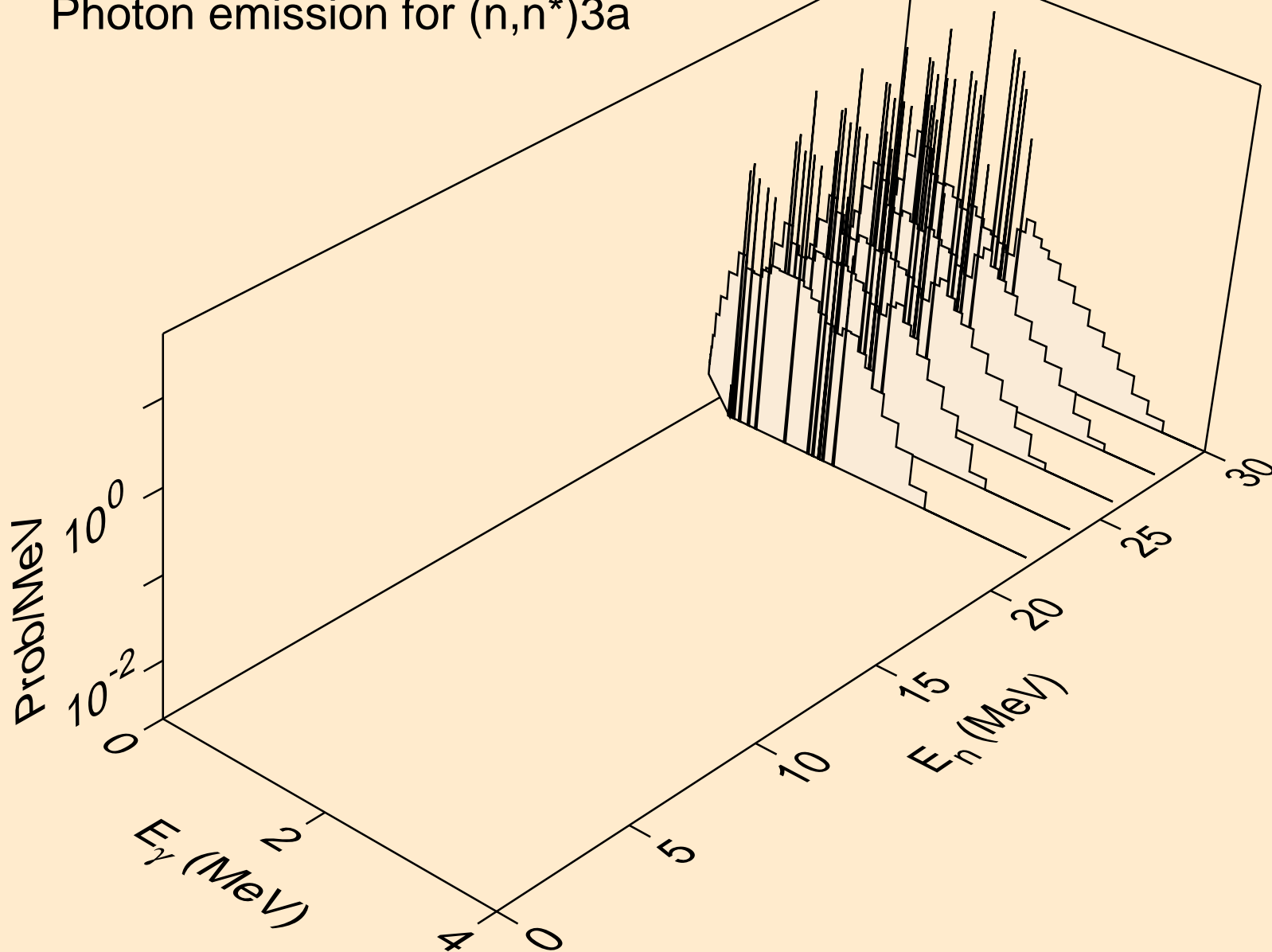
CS117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,3n)



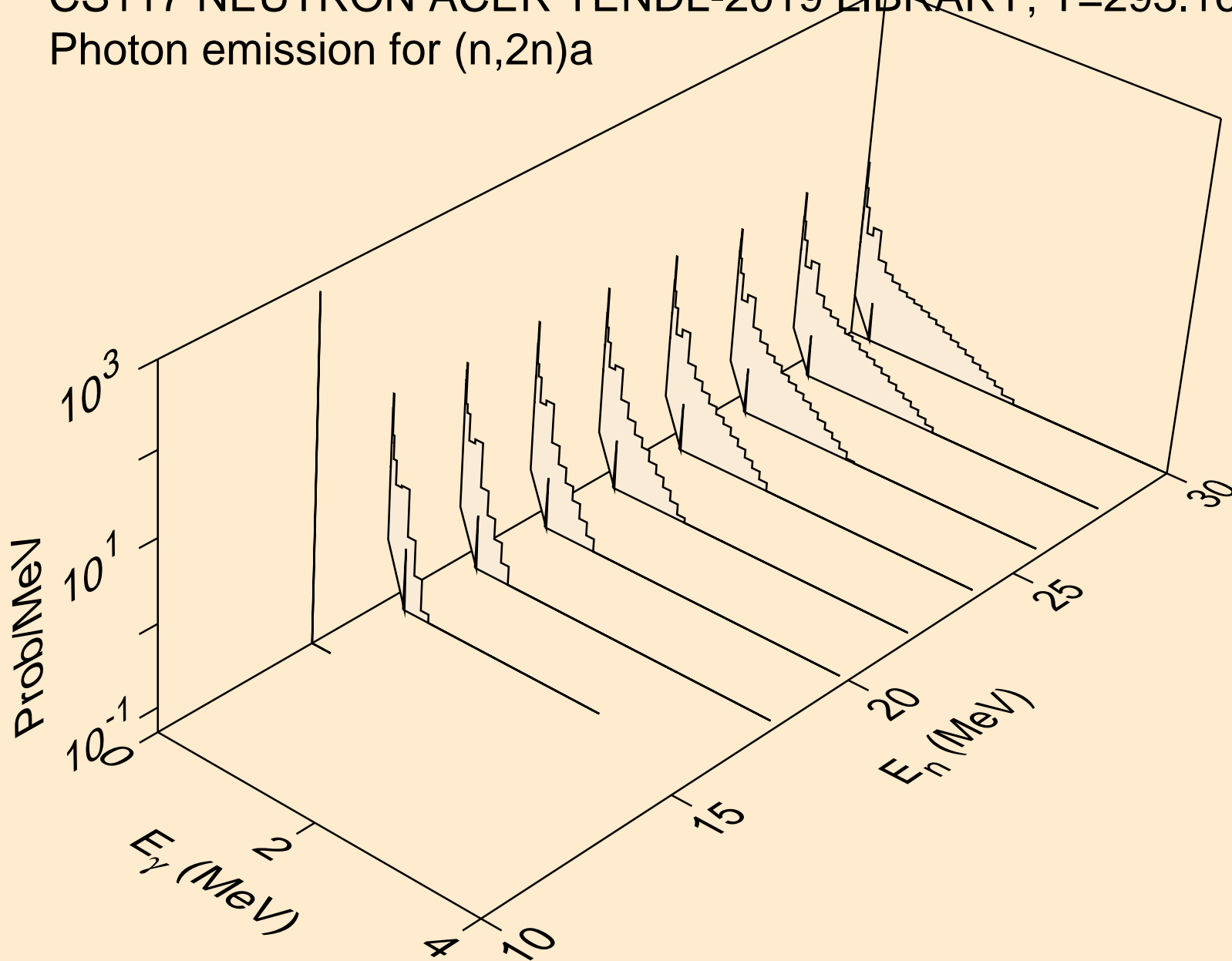
CS117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,n\*)a



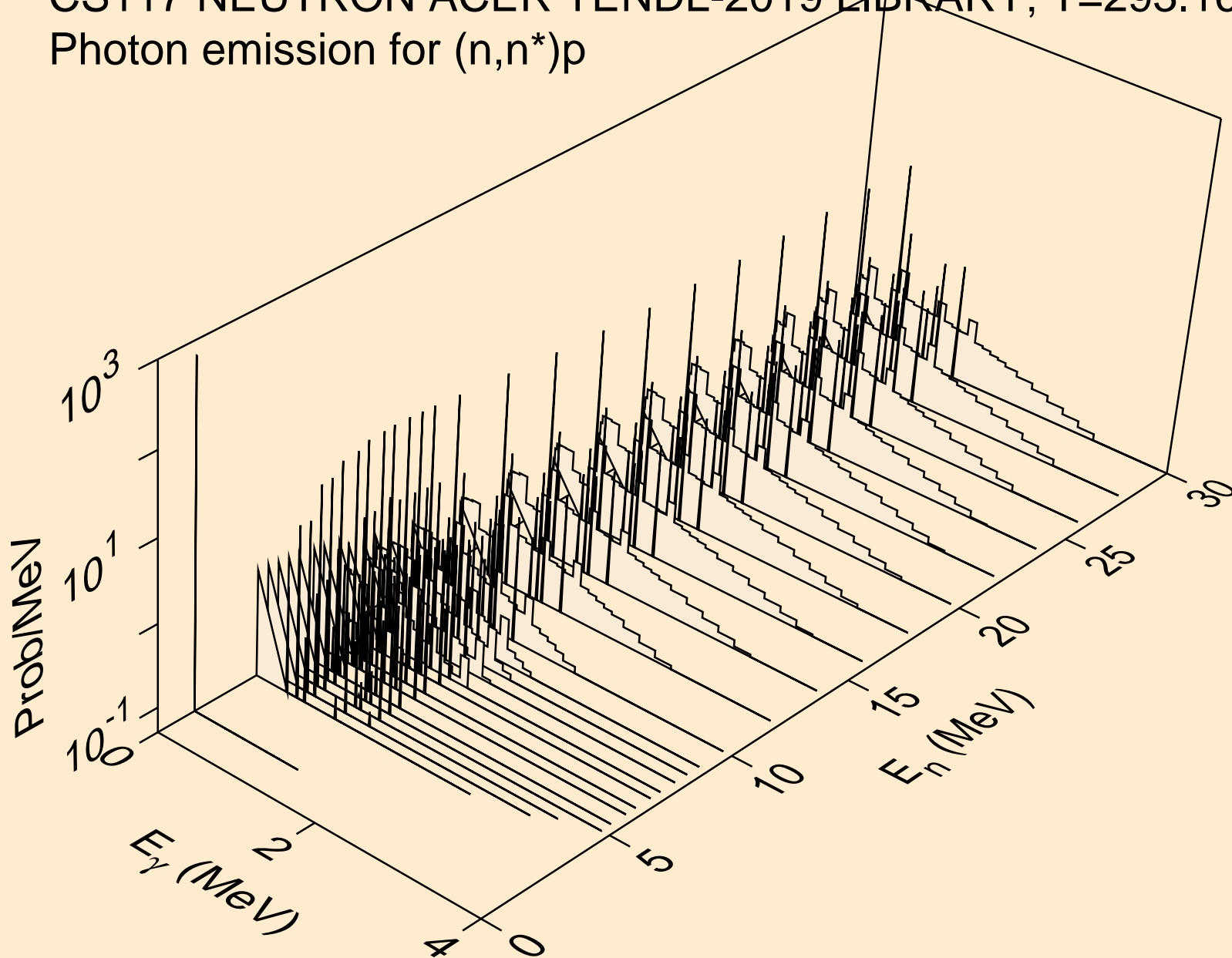
CS117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,n\*)3a



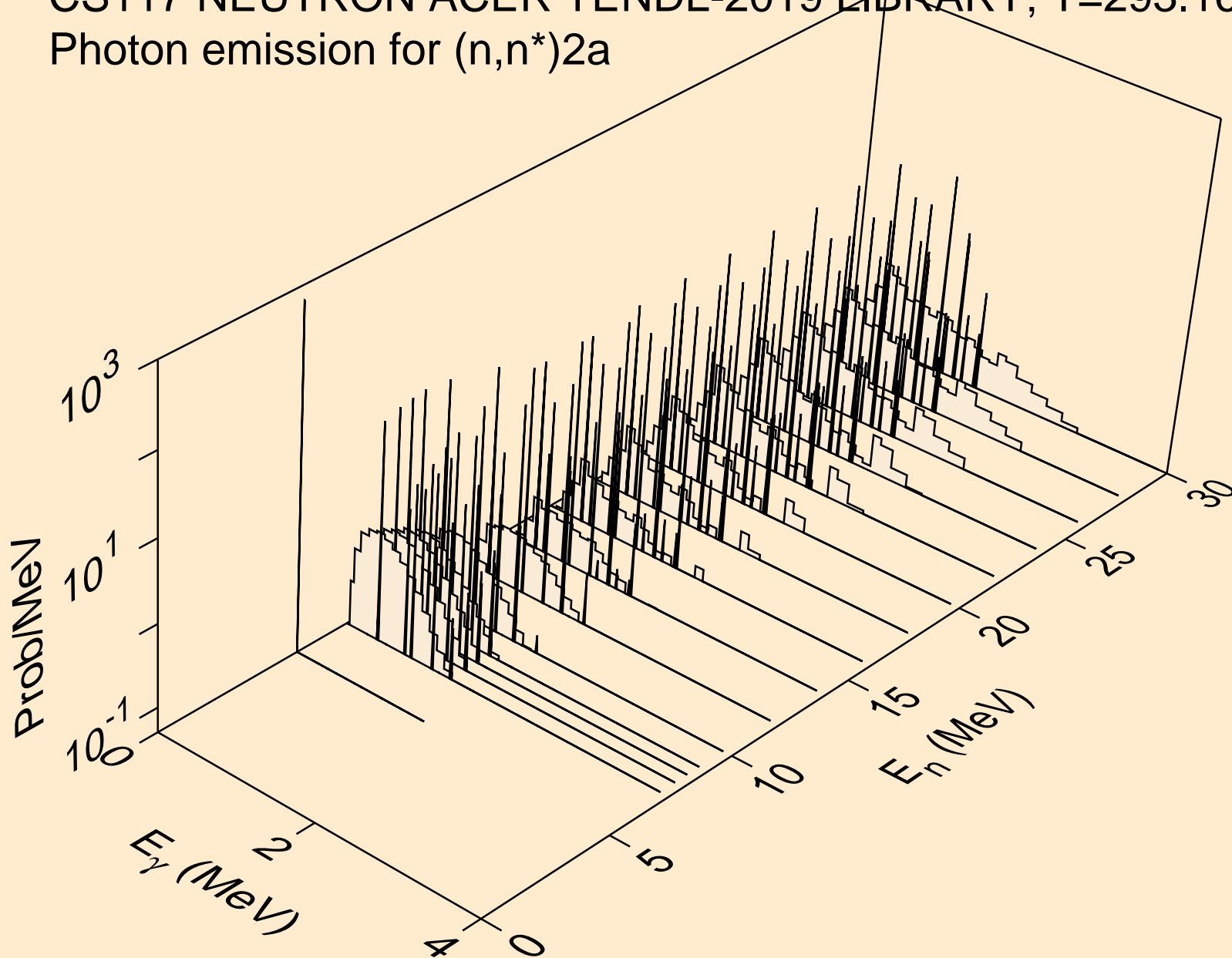
CS117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,2n) $\alpha$



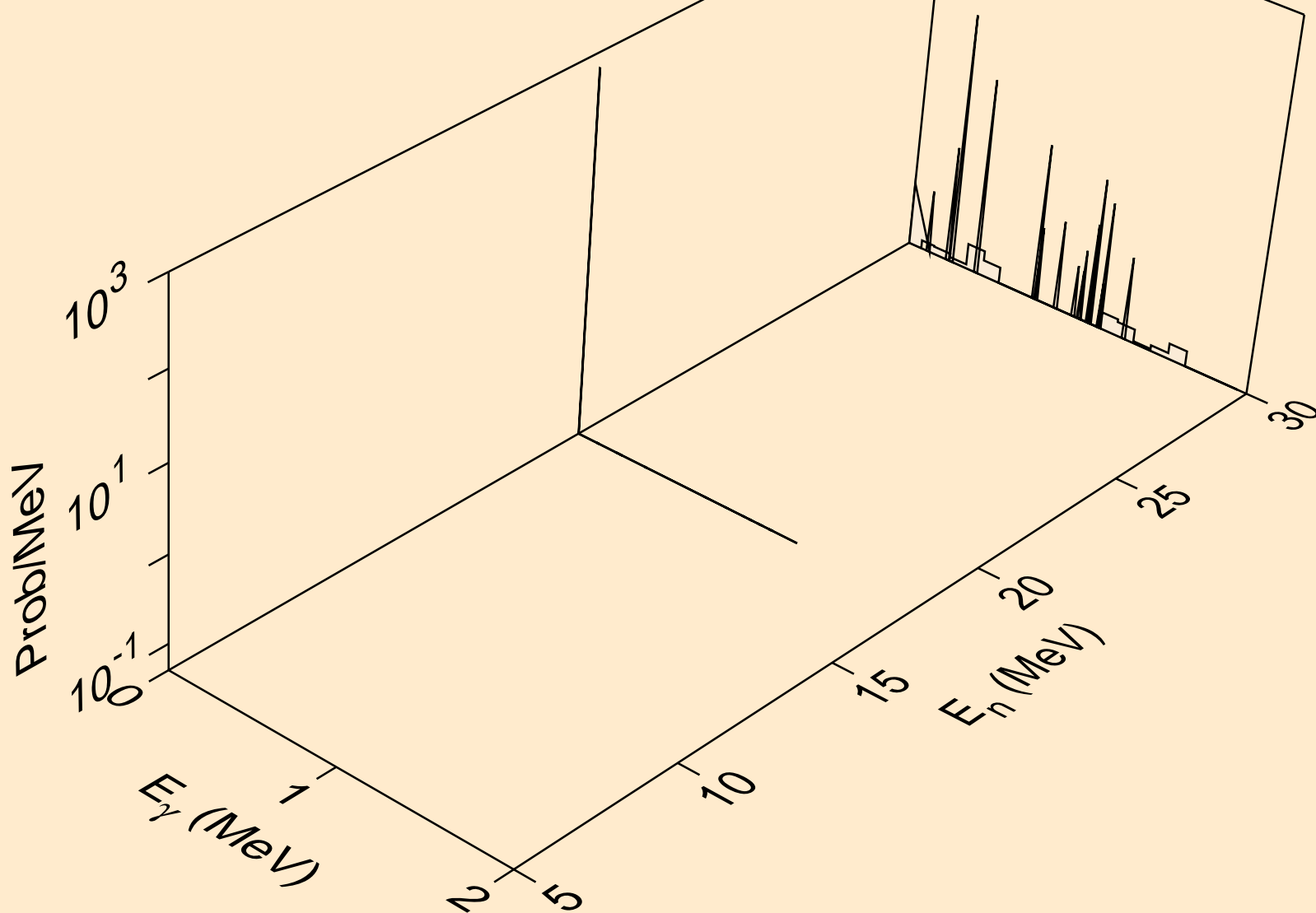
CS117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,n\*)p



CS117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,n\*)2a

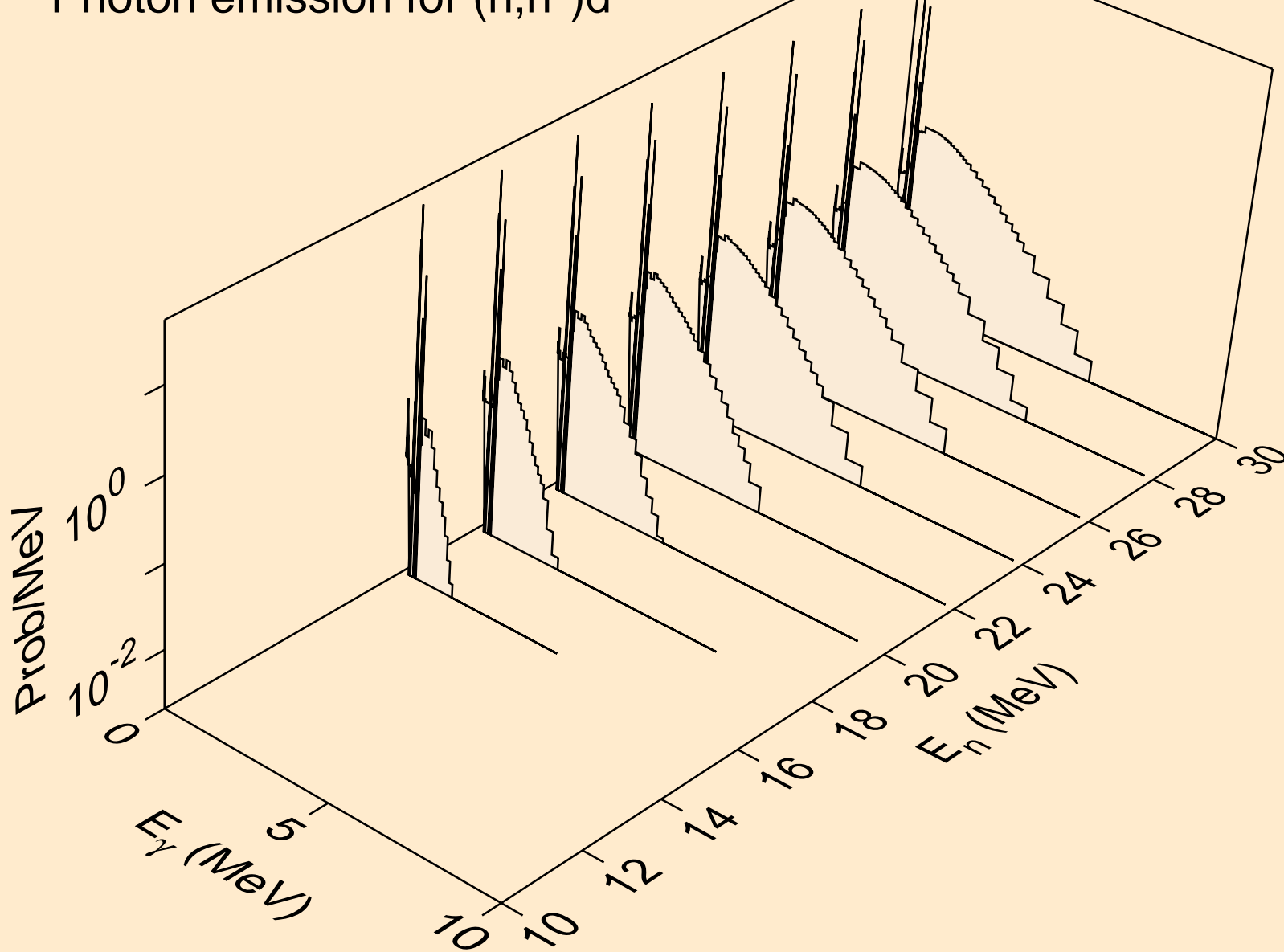


CS117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,2n)2a

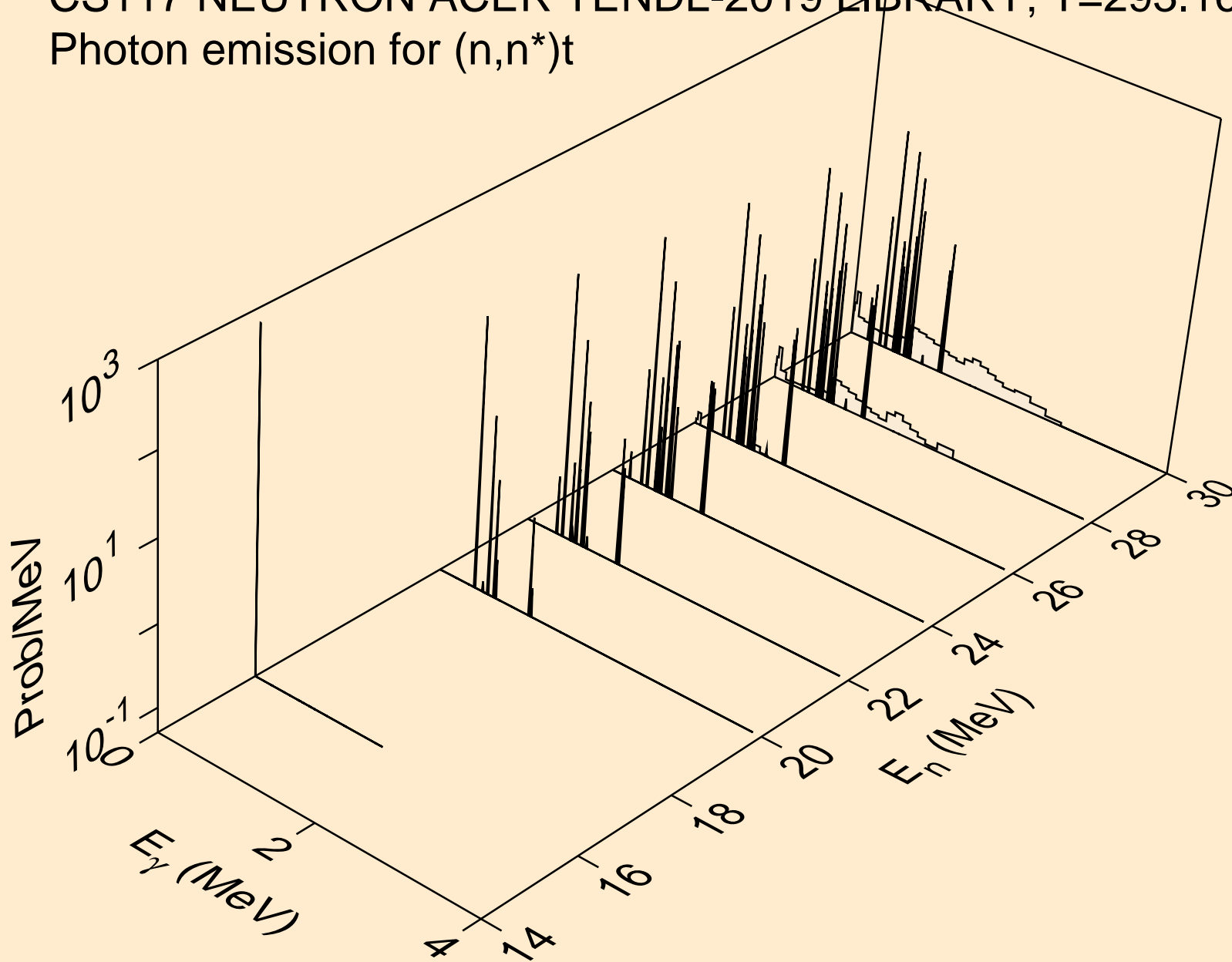




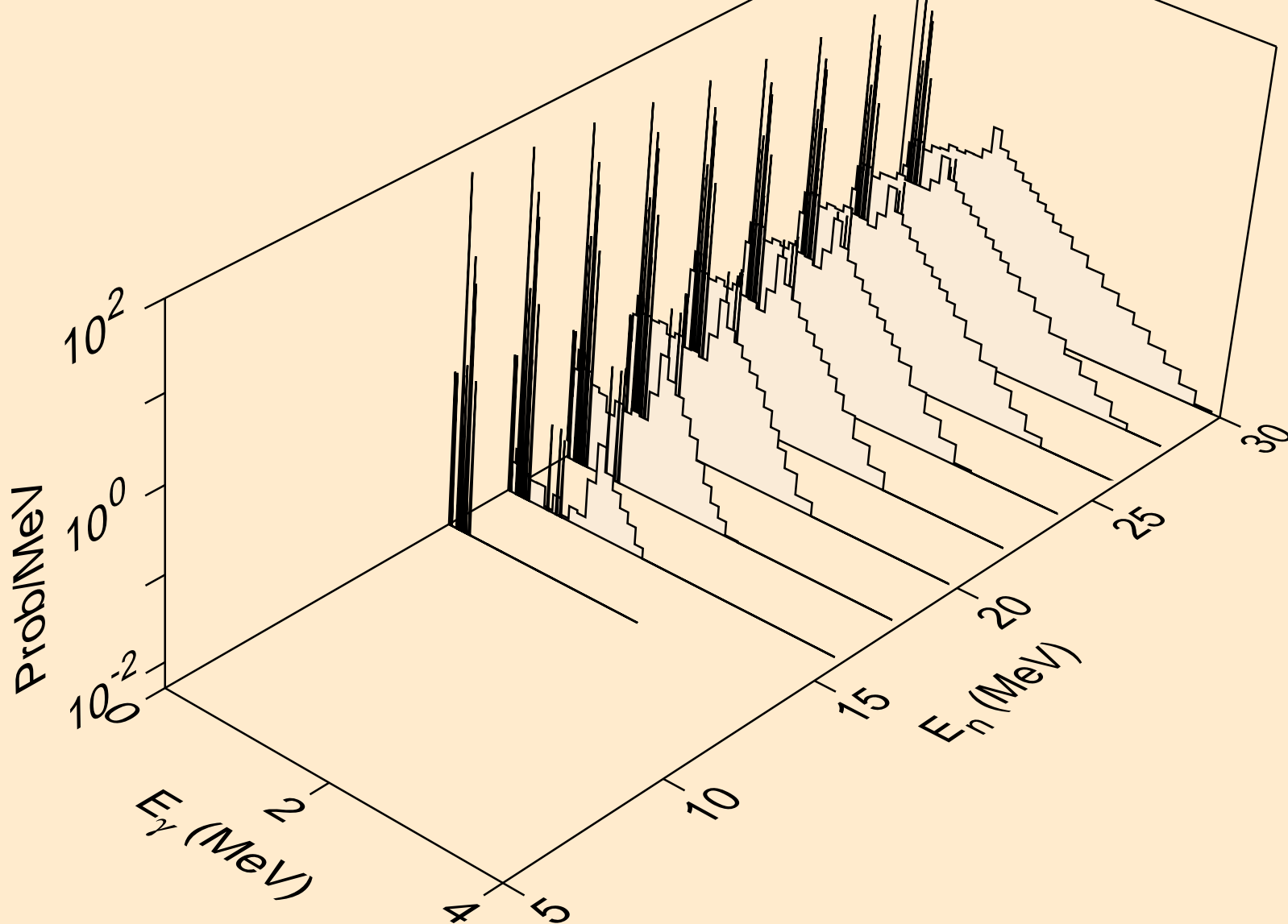
CS117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,n\*)d



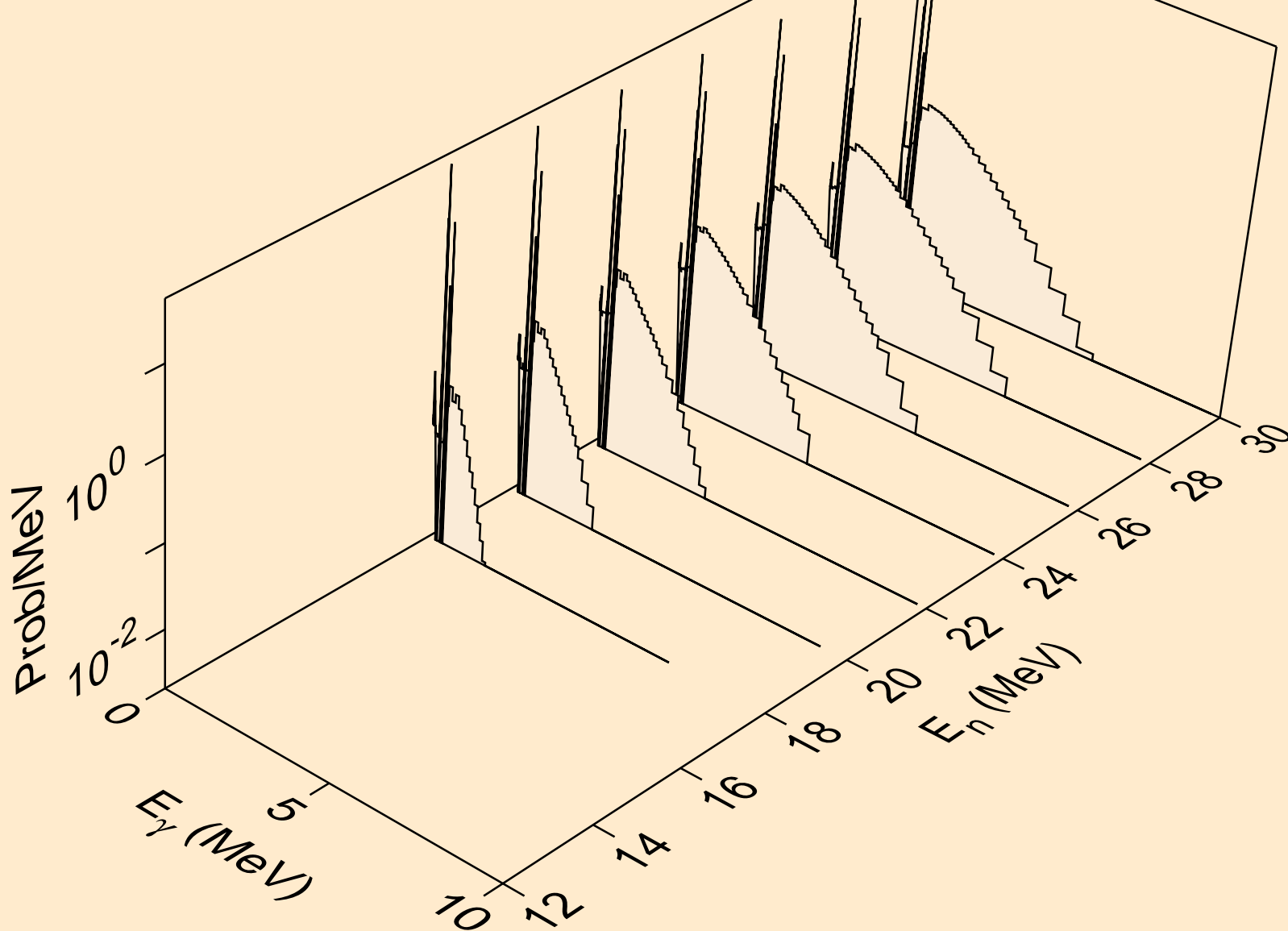
CS117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,n\*)t



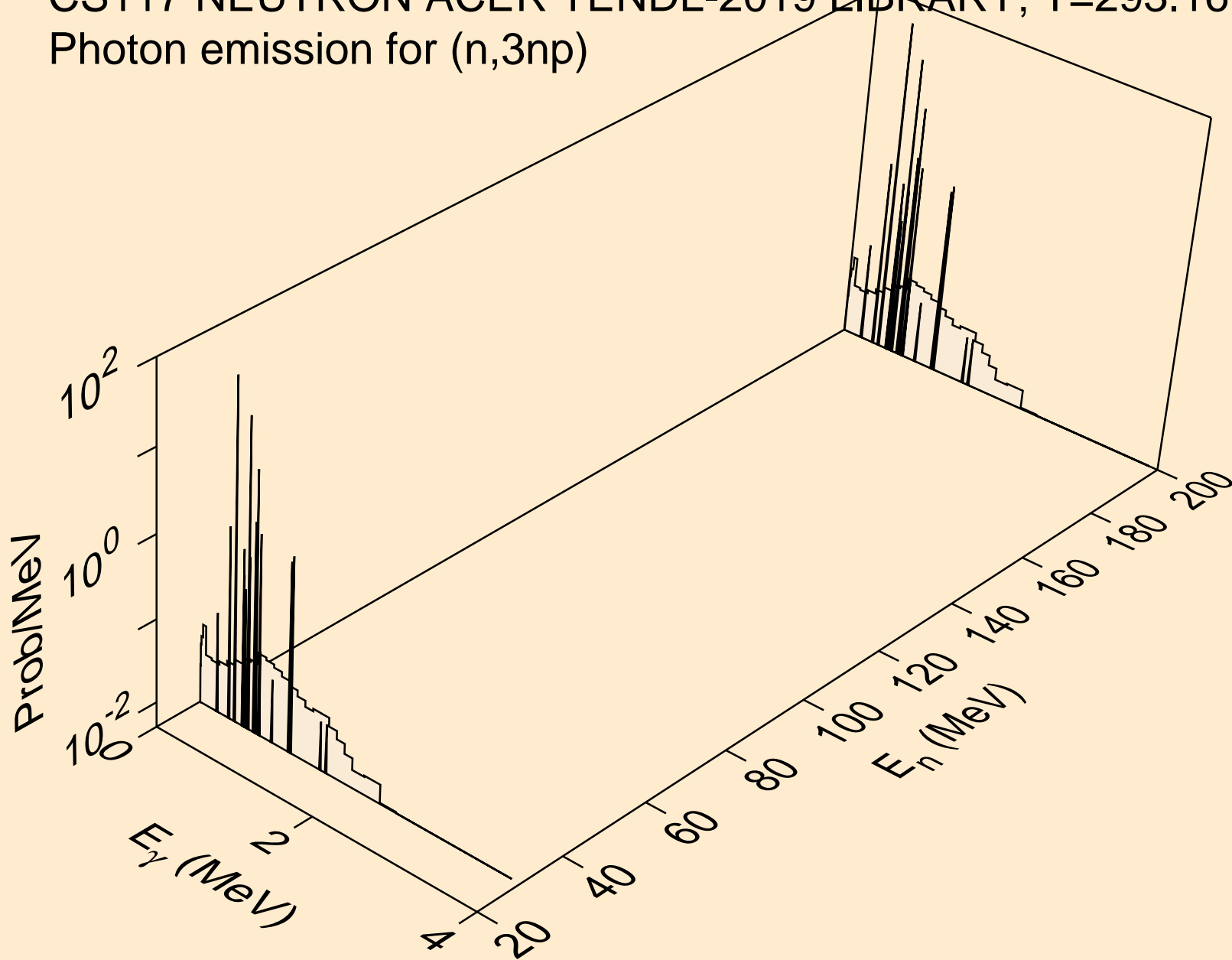
CS117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,n\*)he3



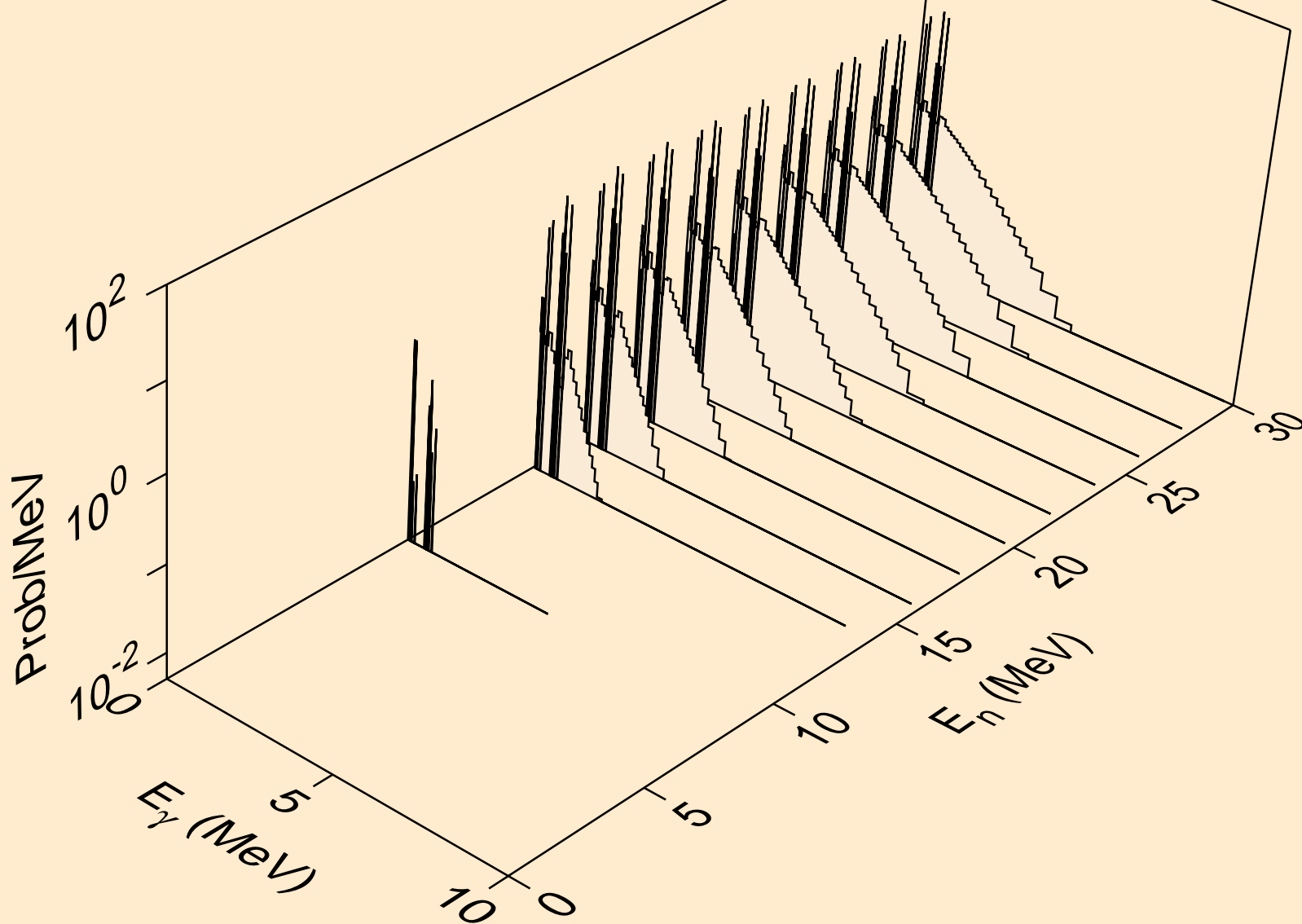
CS117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,2np)



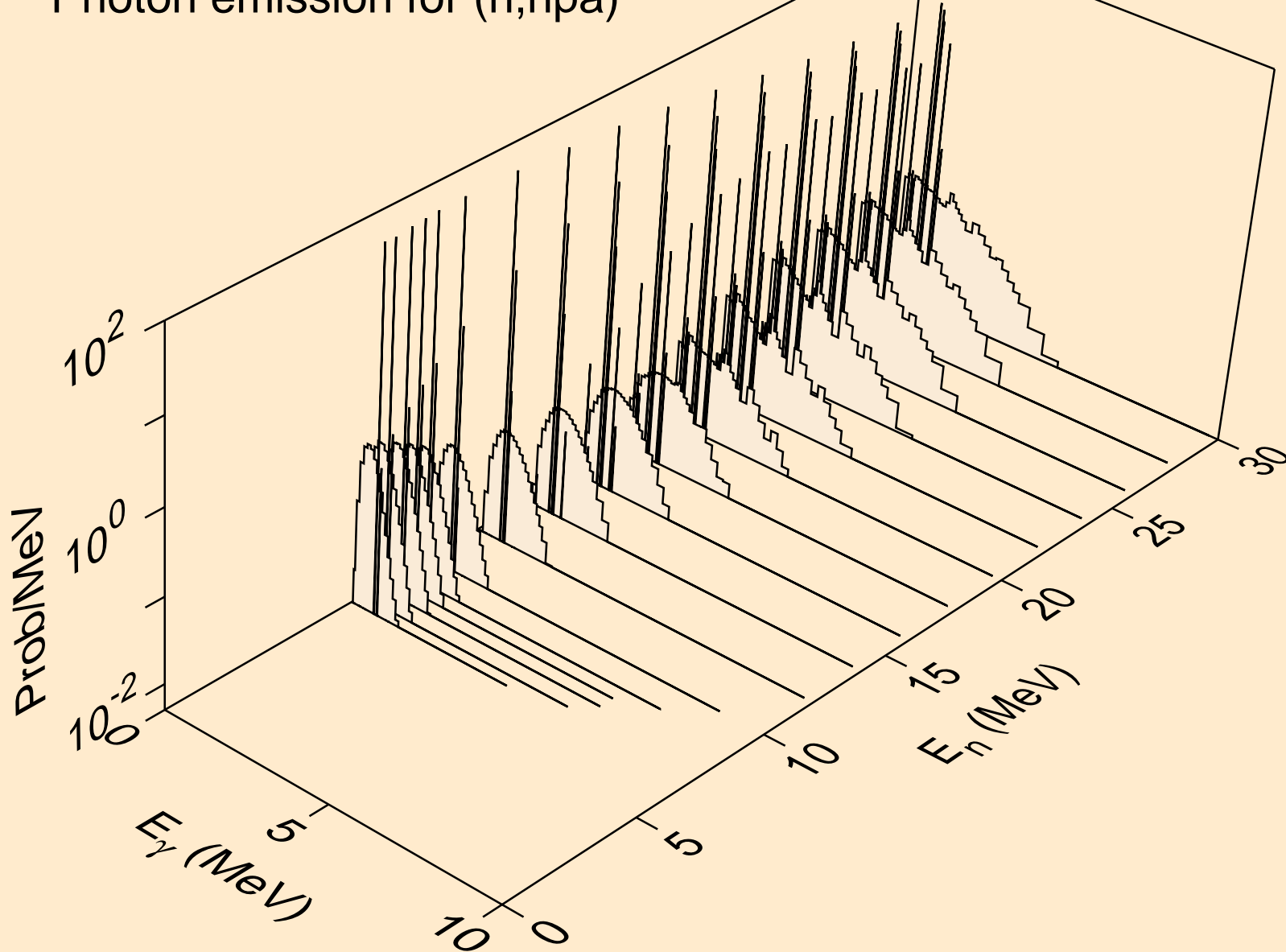
CS117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,3np)



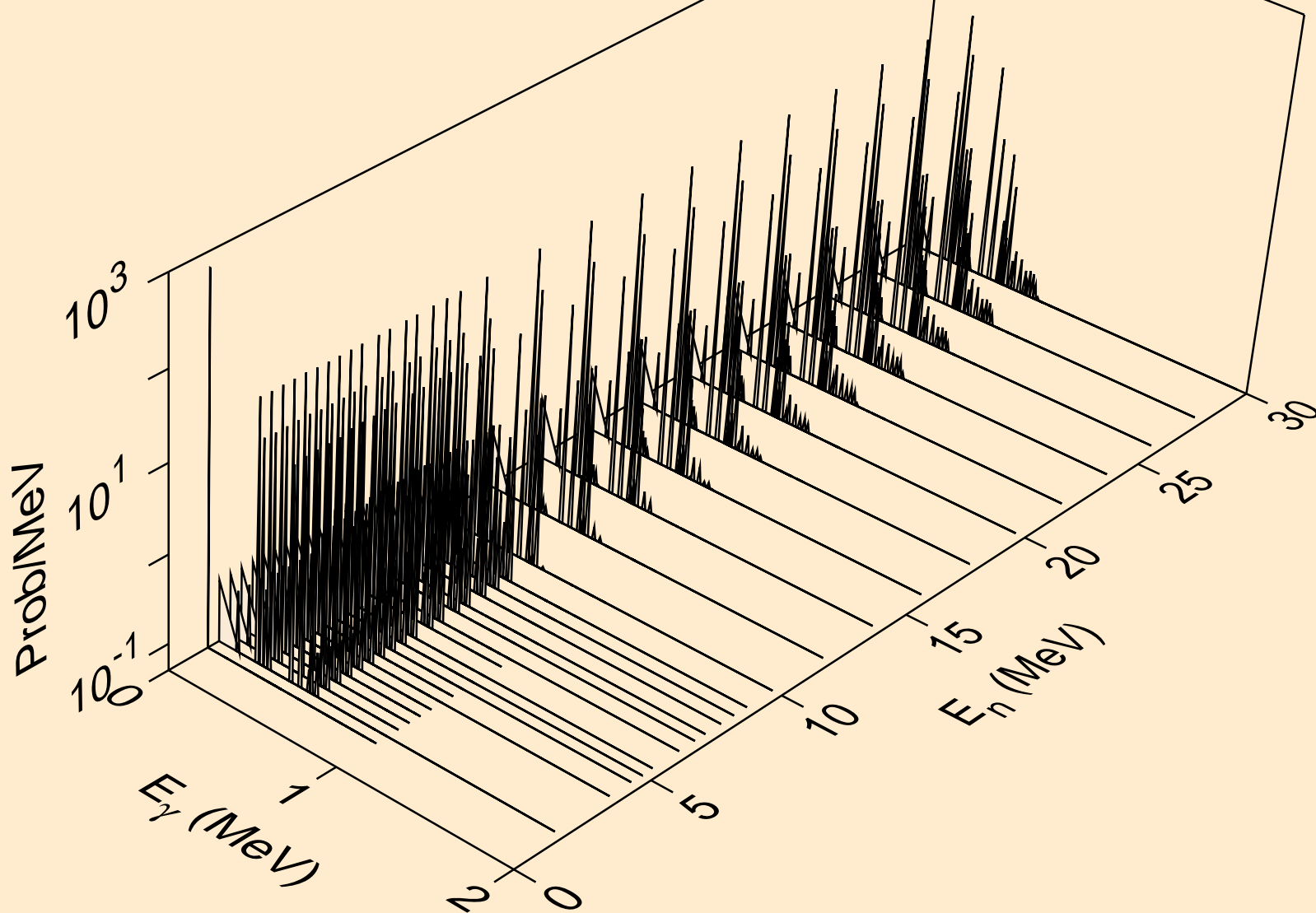
CS117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,2np)



CS117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,npa)

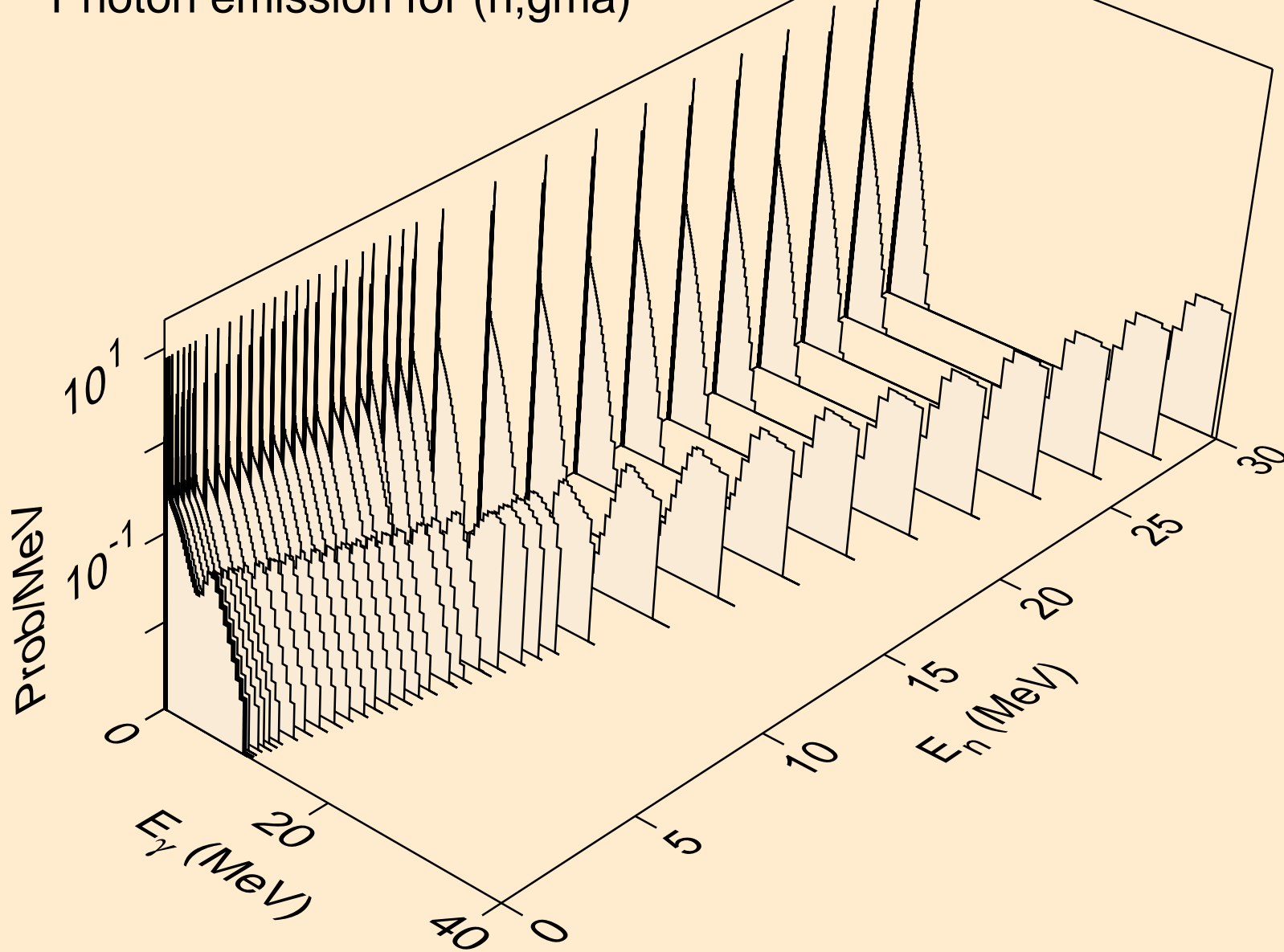


CS117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,n\*c)

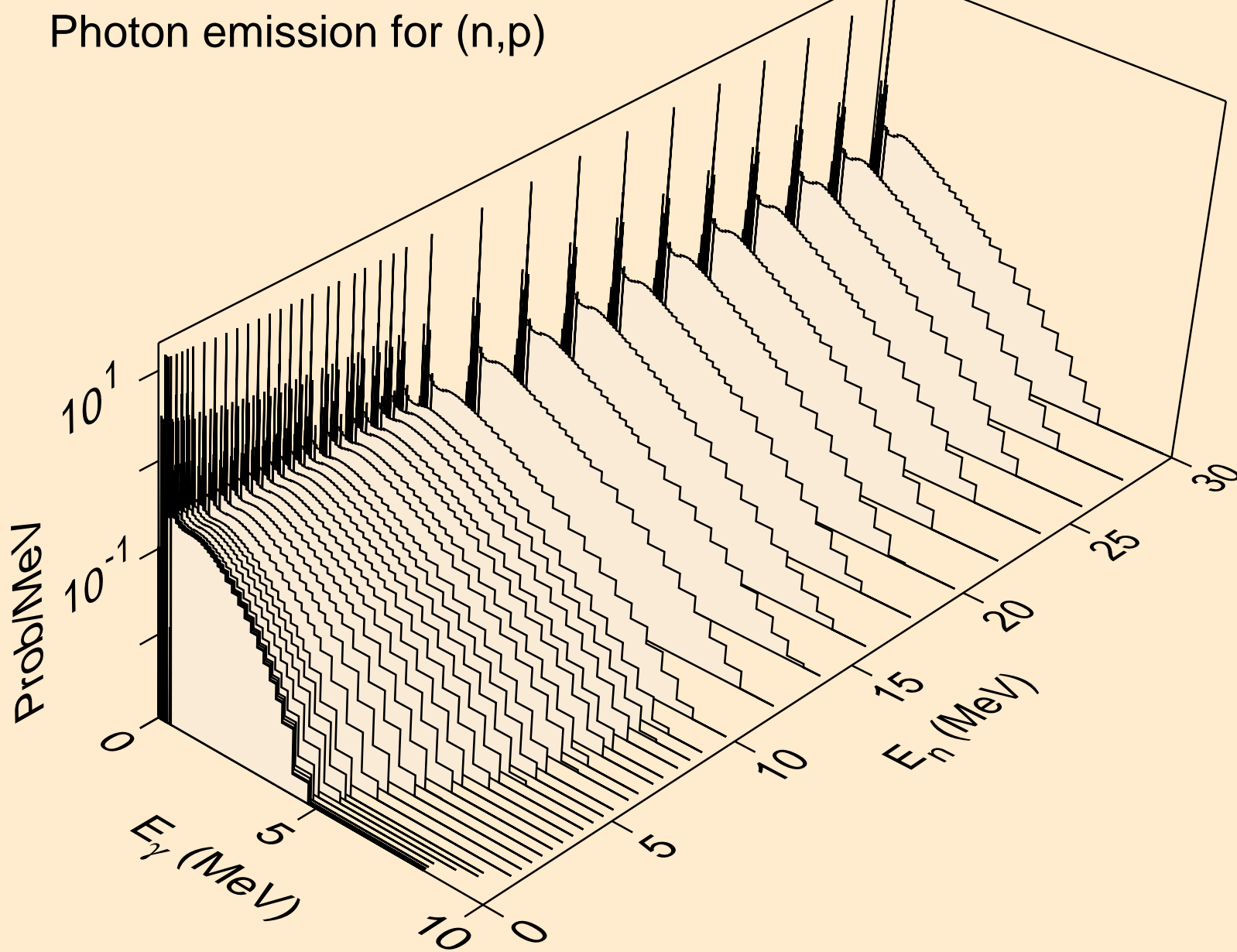




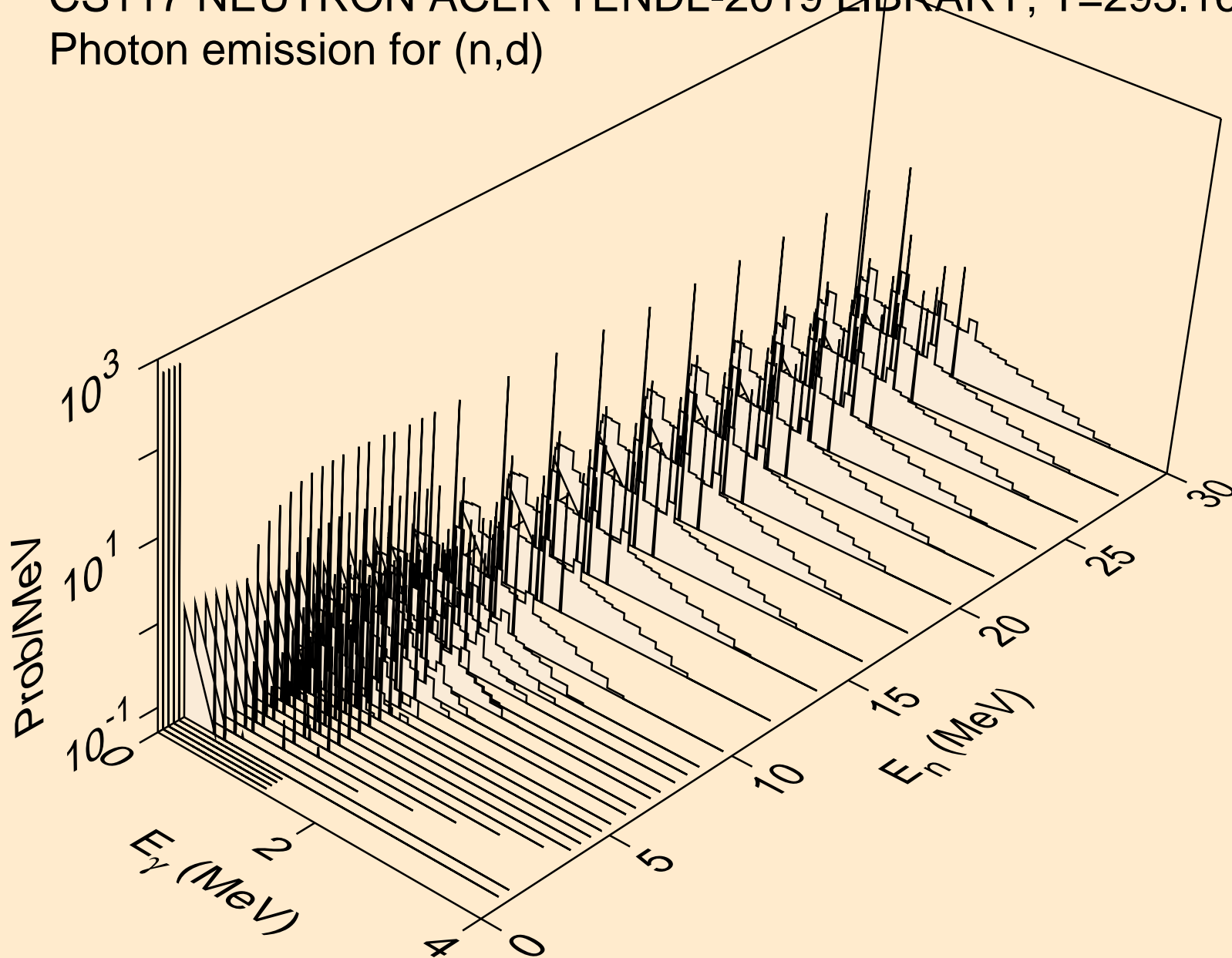
CS117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,gma)



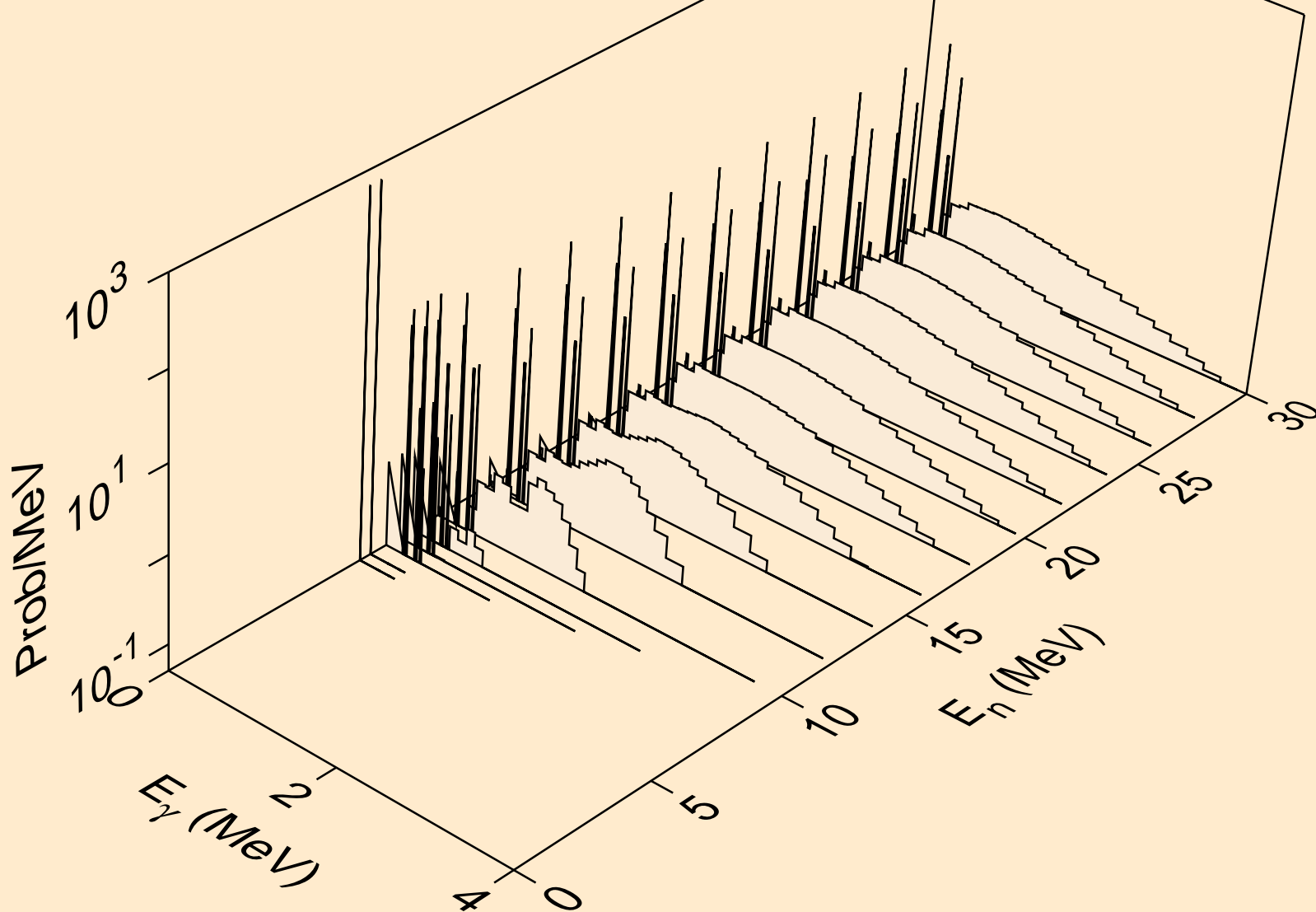
CS117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,p)



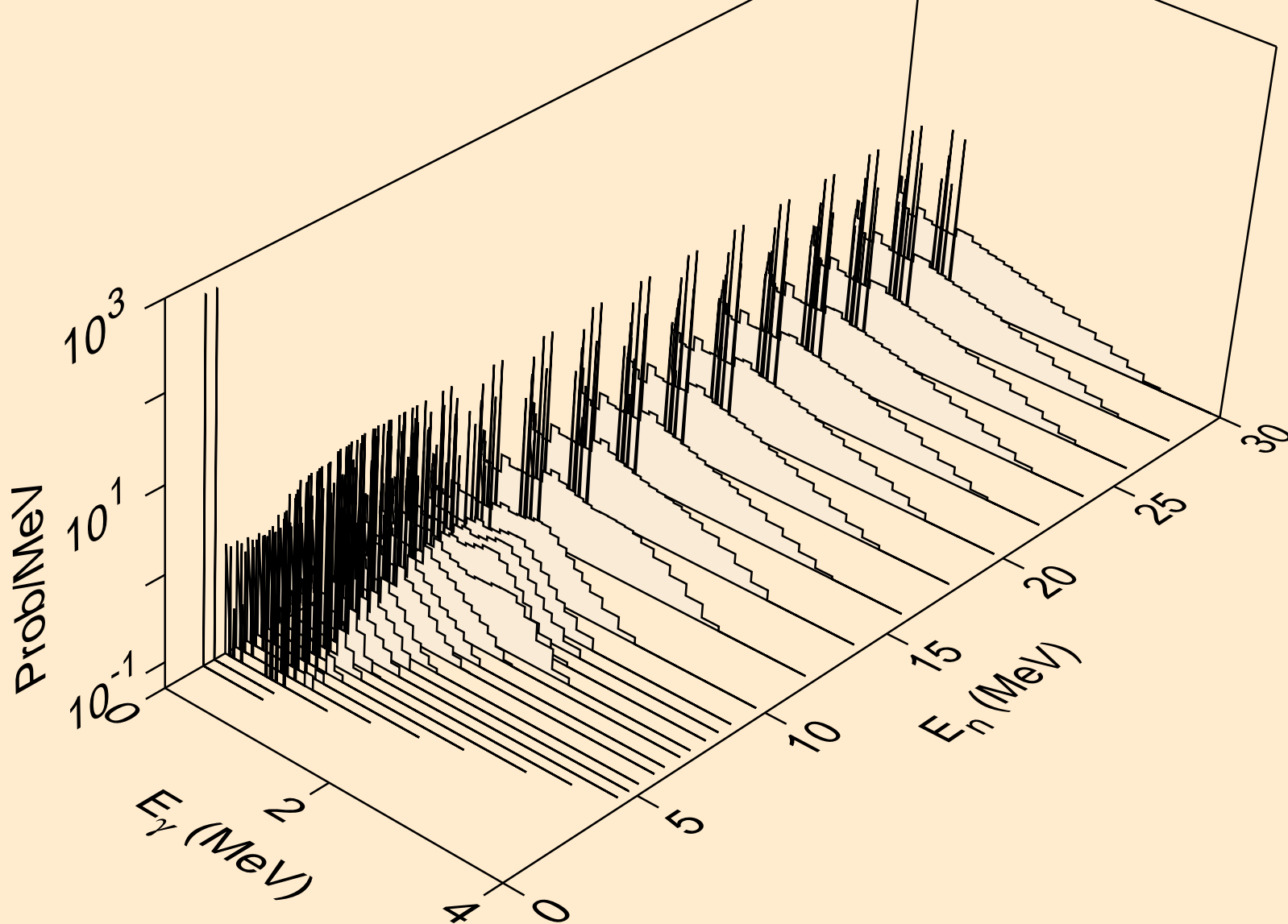
CS117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,d)



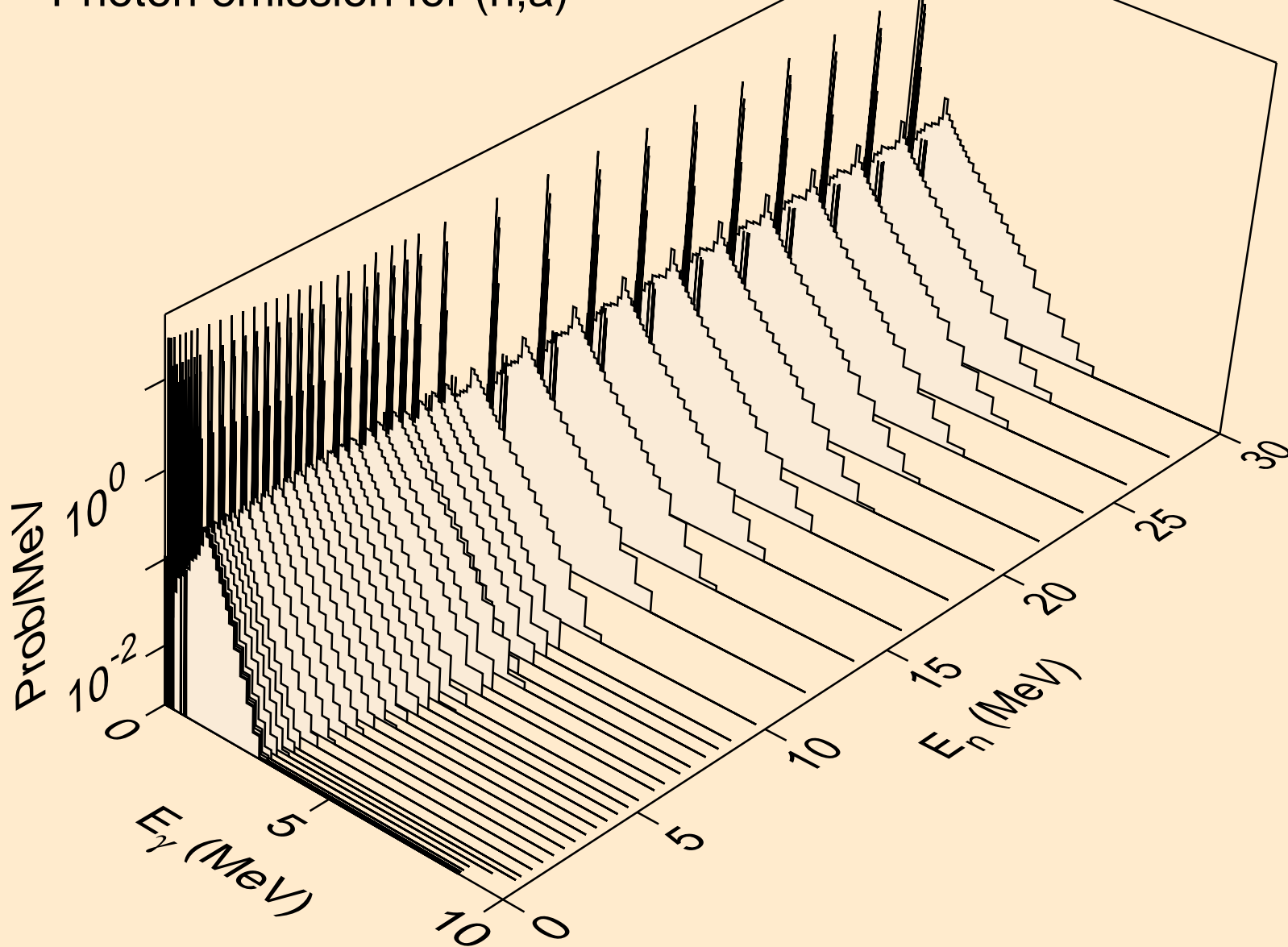
CS117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,t)



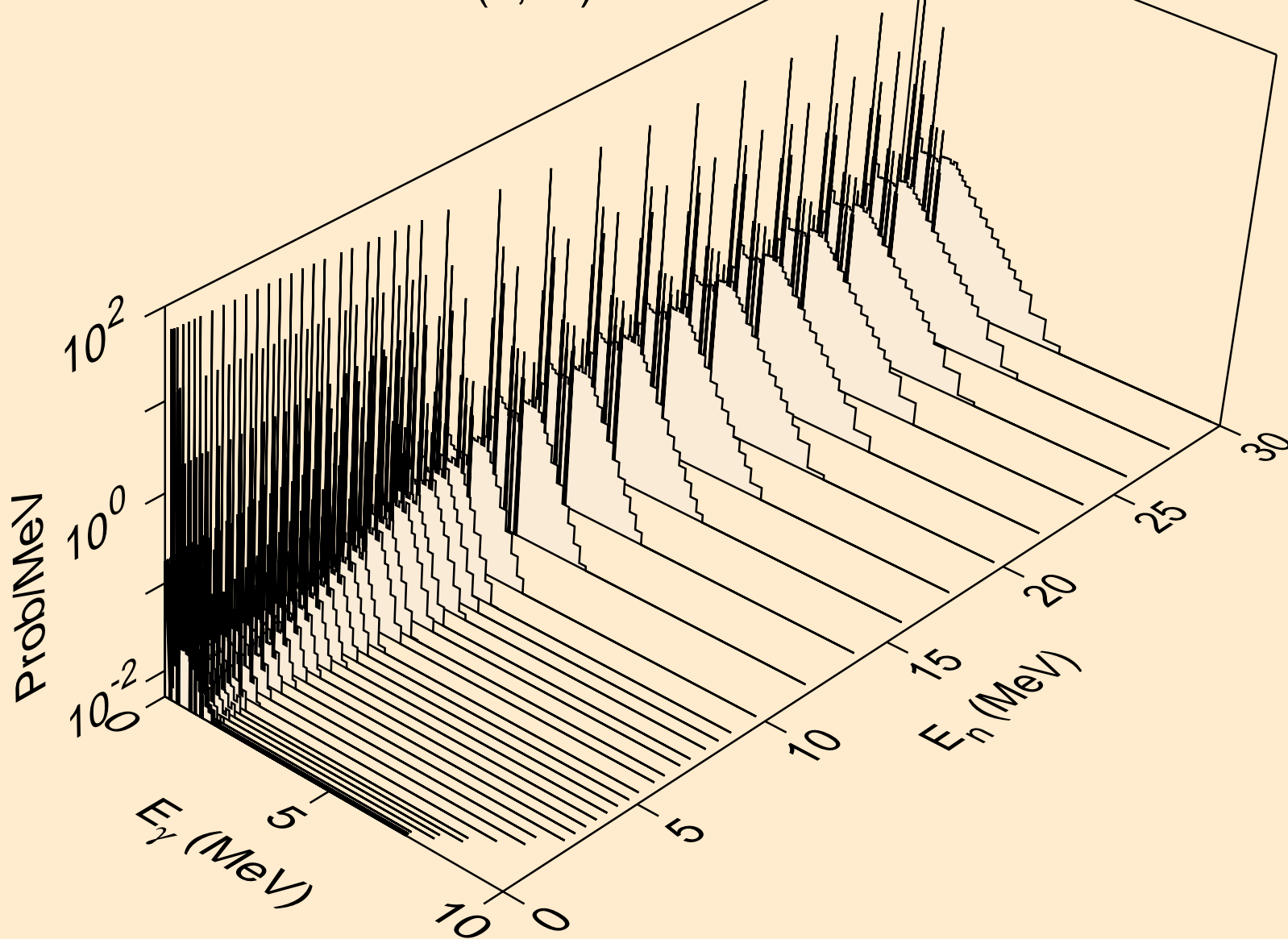
CS117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,he3)



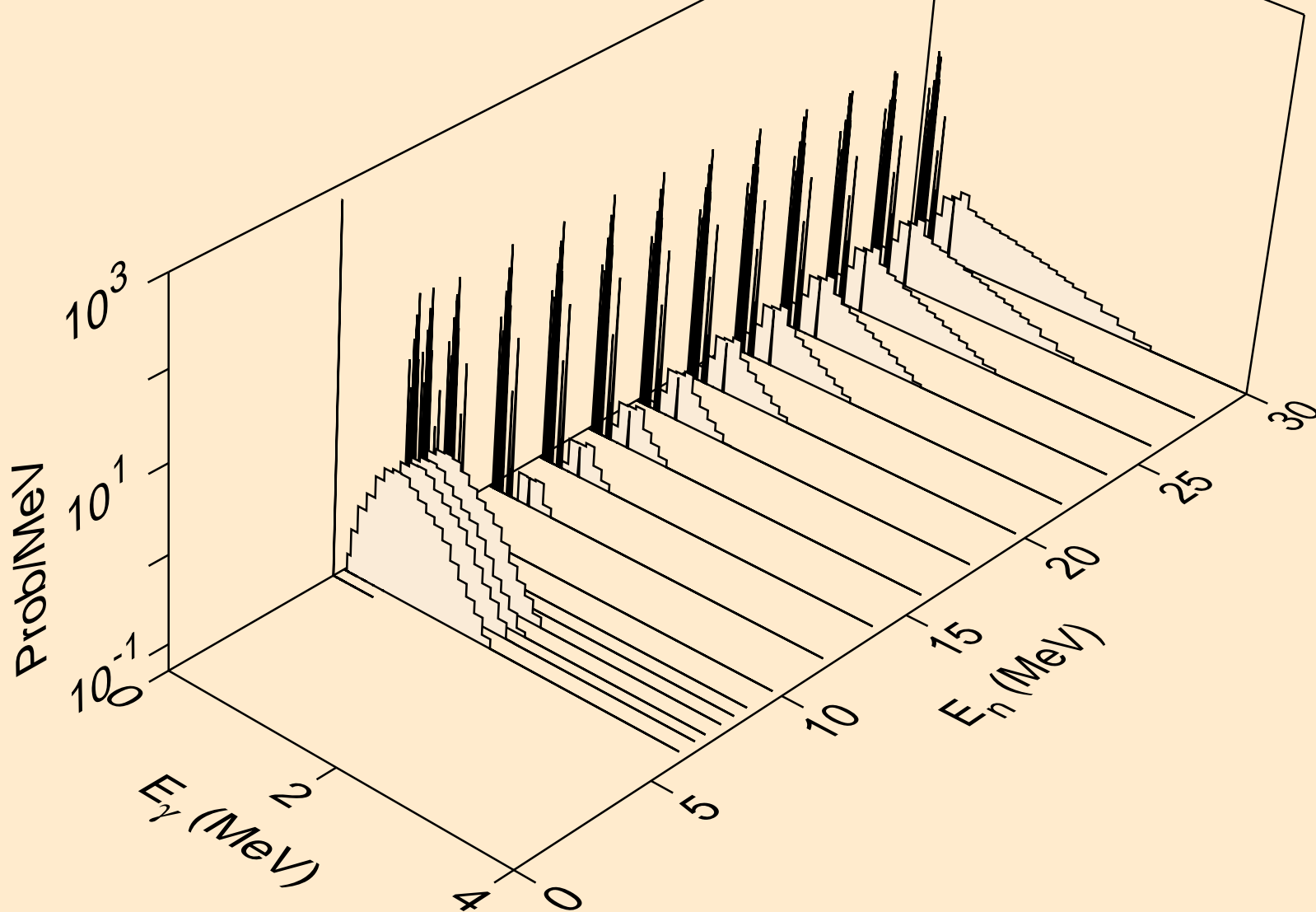
CS117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,a)



CS117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,2a)

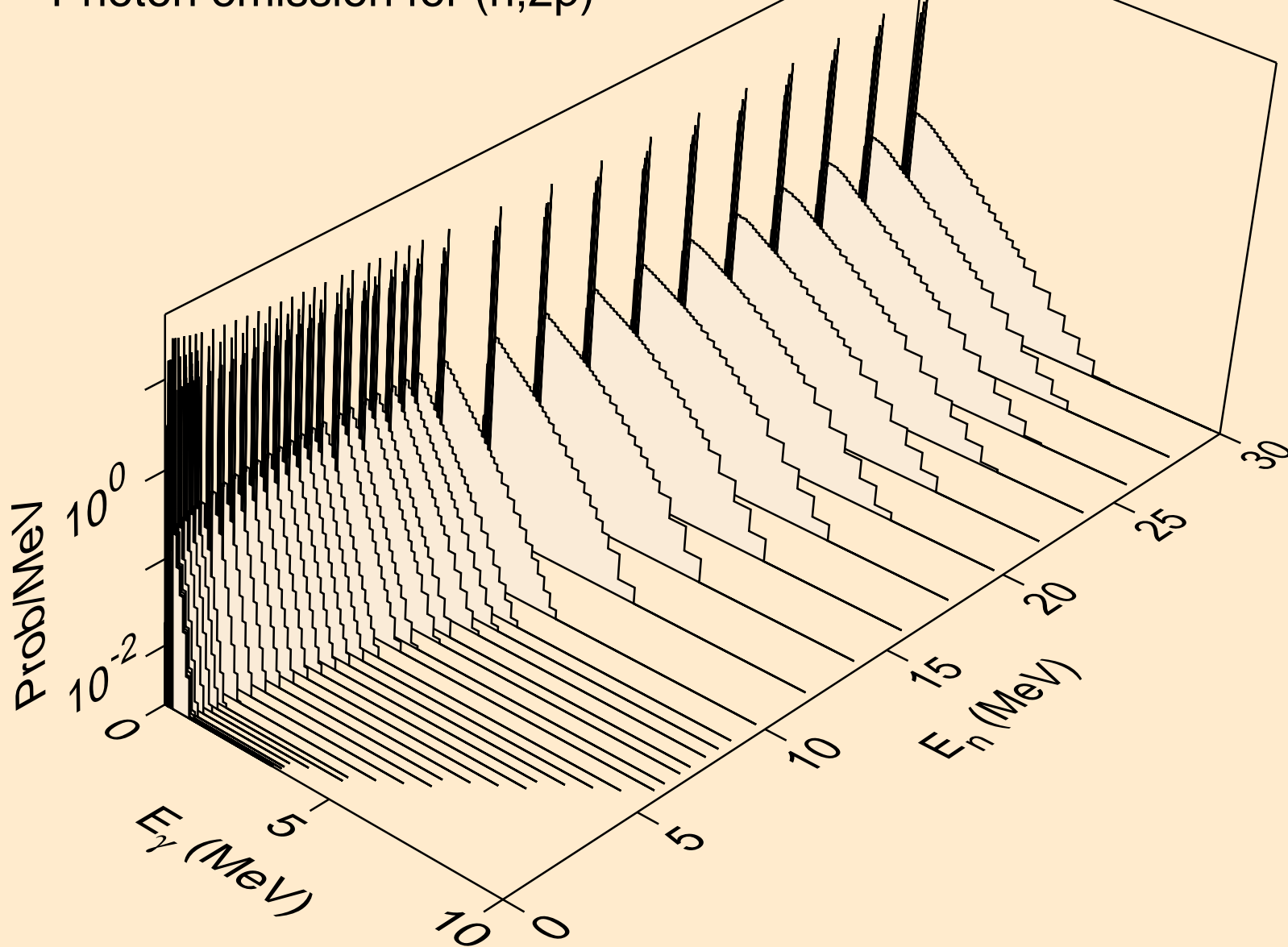


CS117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,3a)

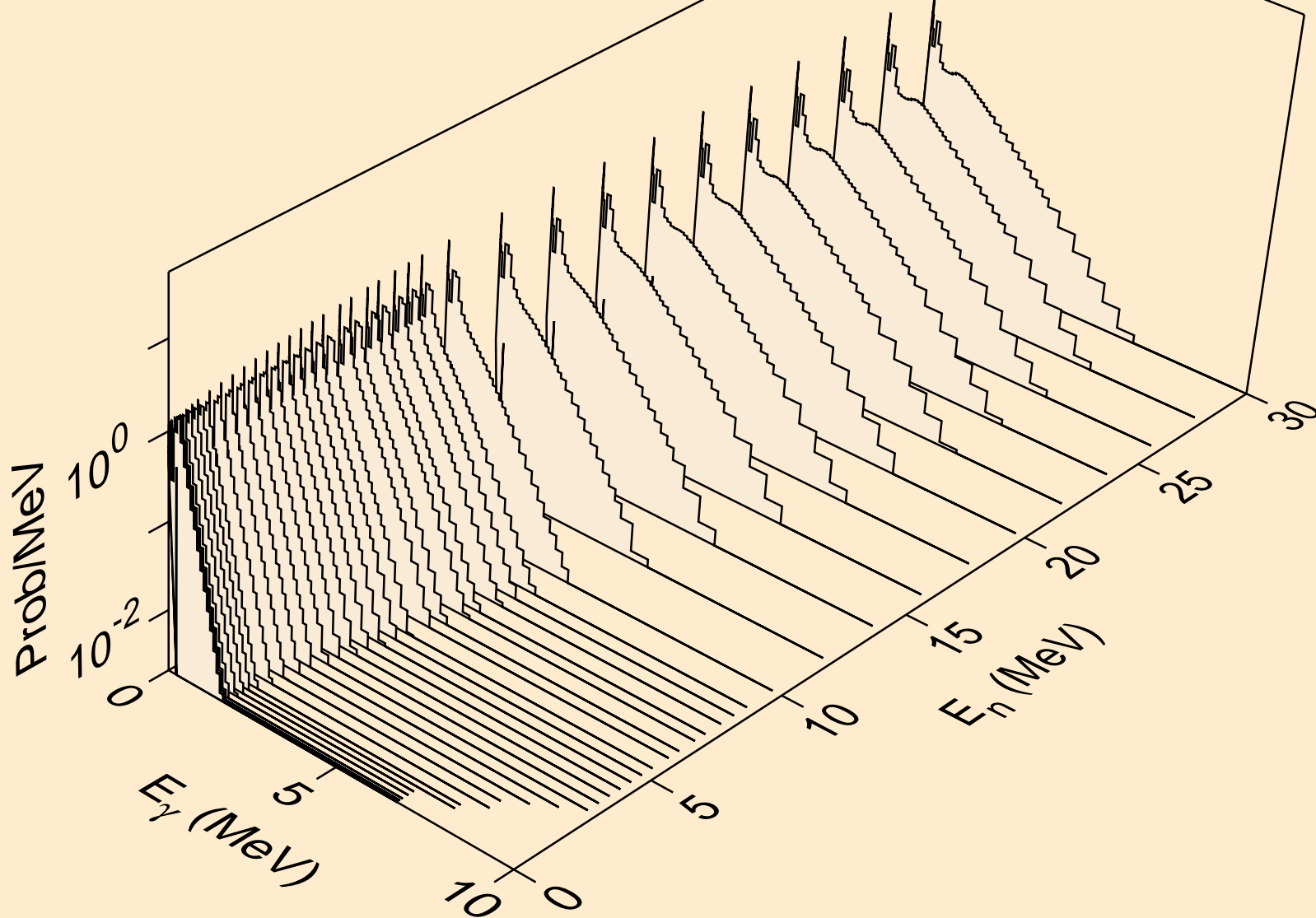




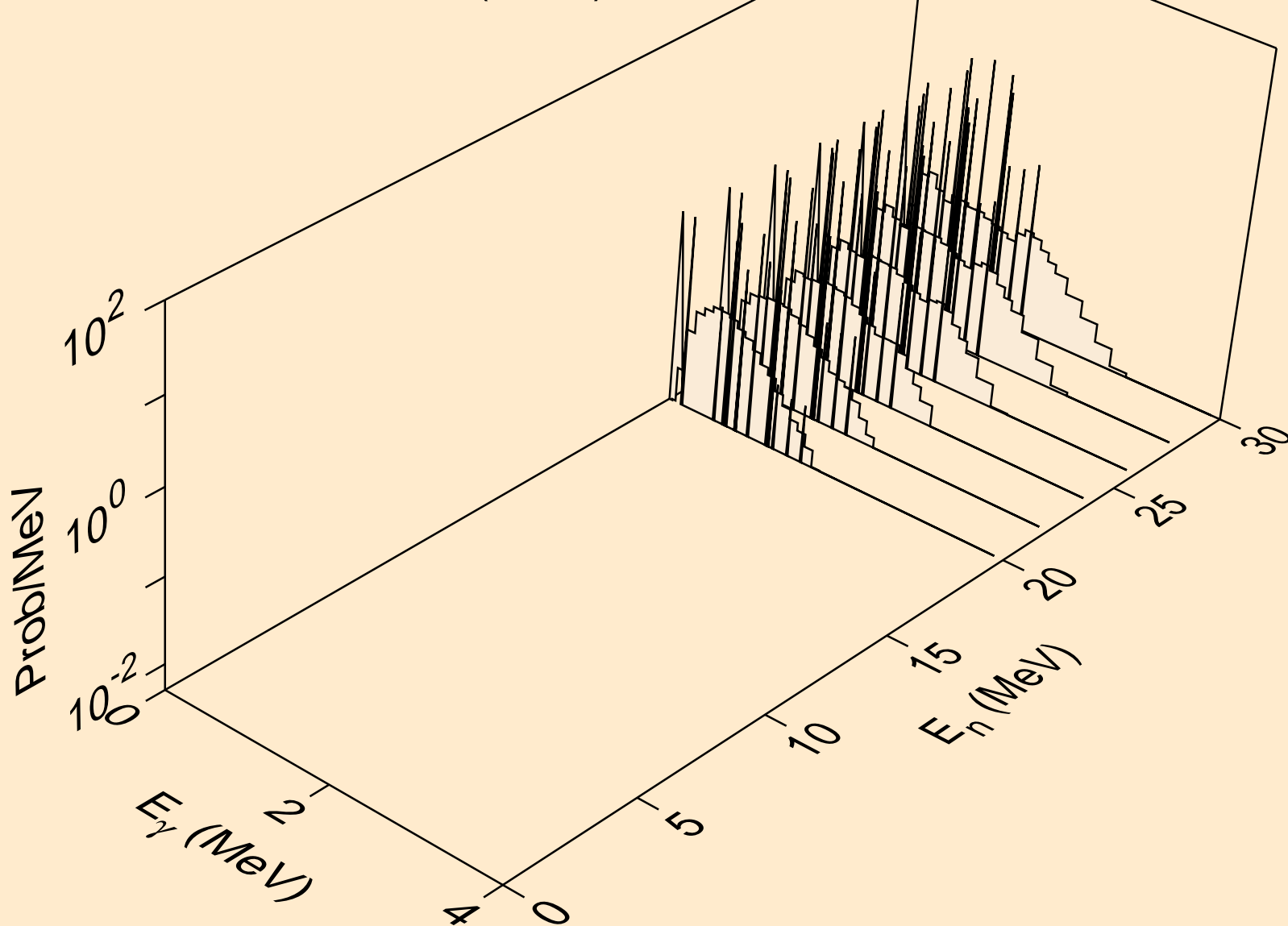
CS117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,2p)



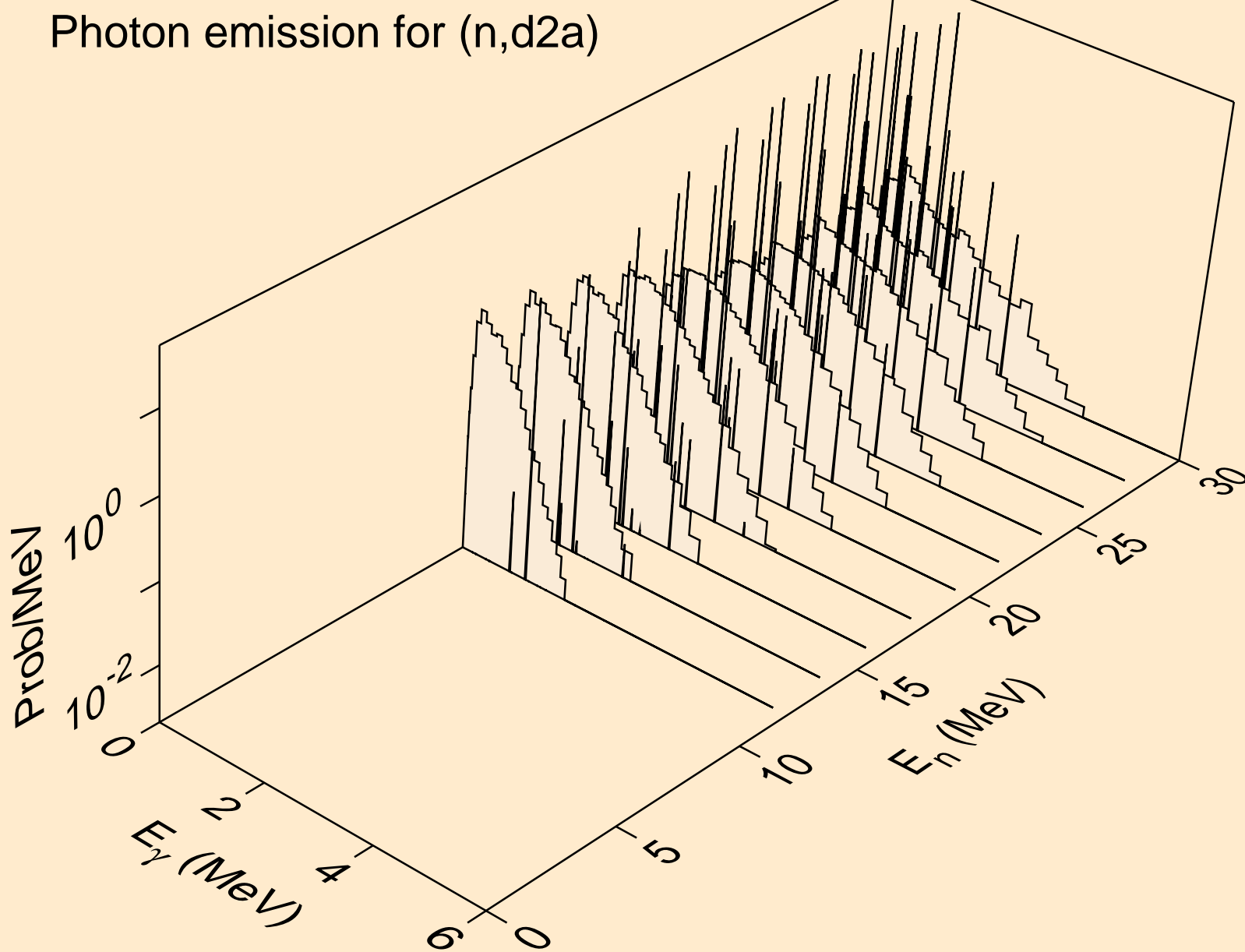
CS117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,p $\alpha$ )



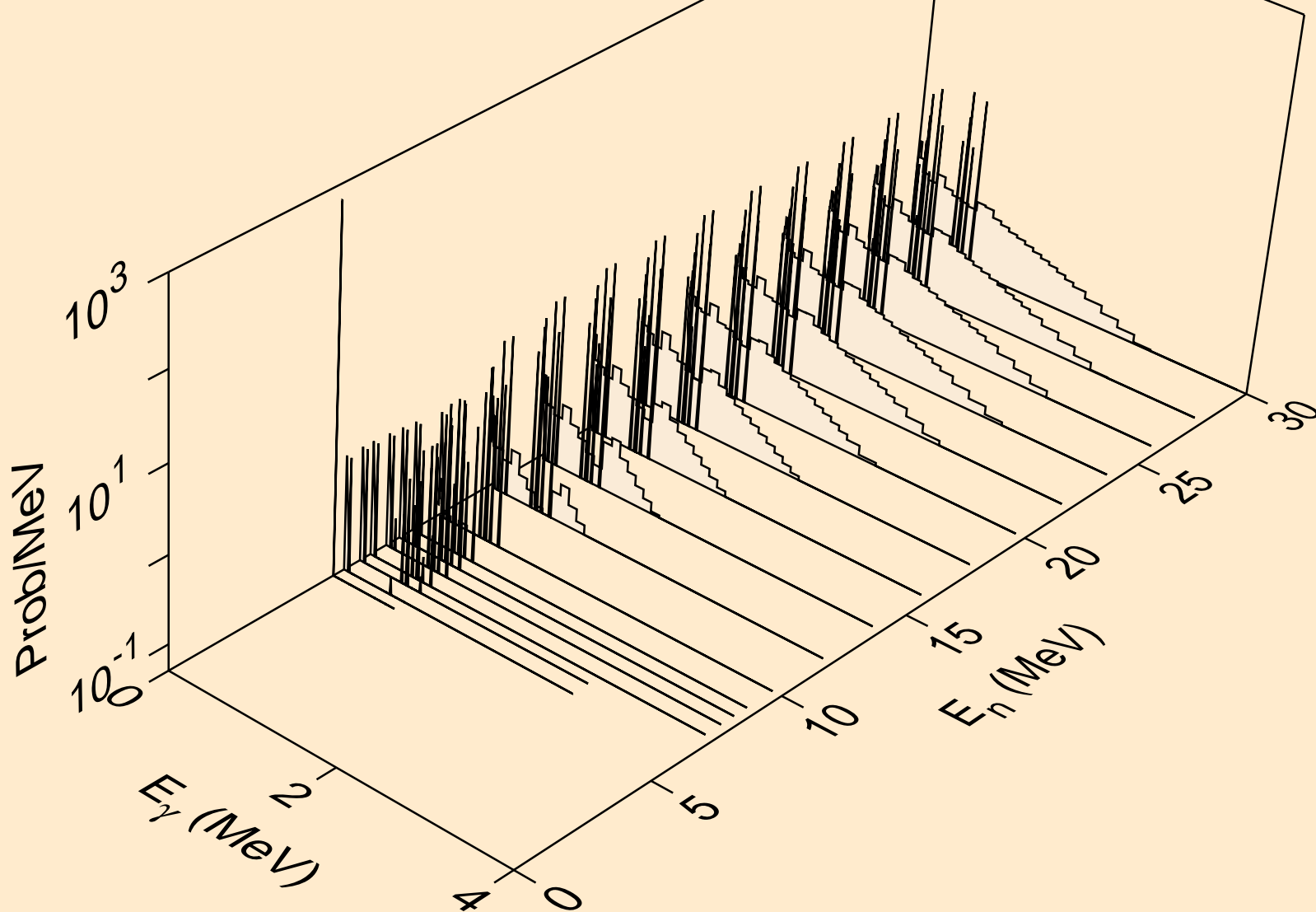
CS117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,t2a)



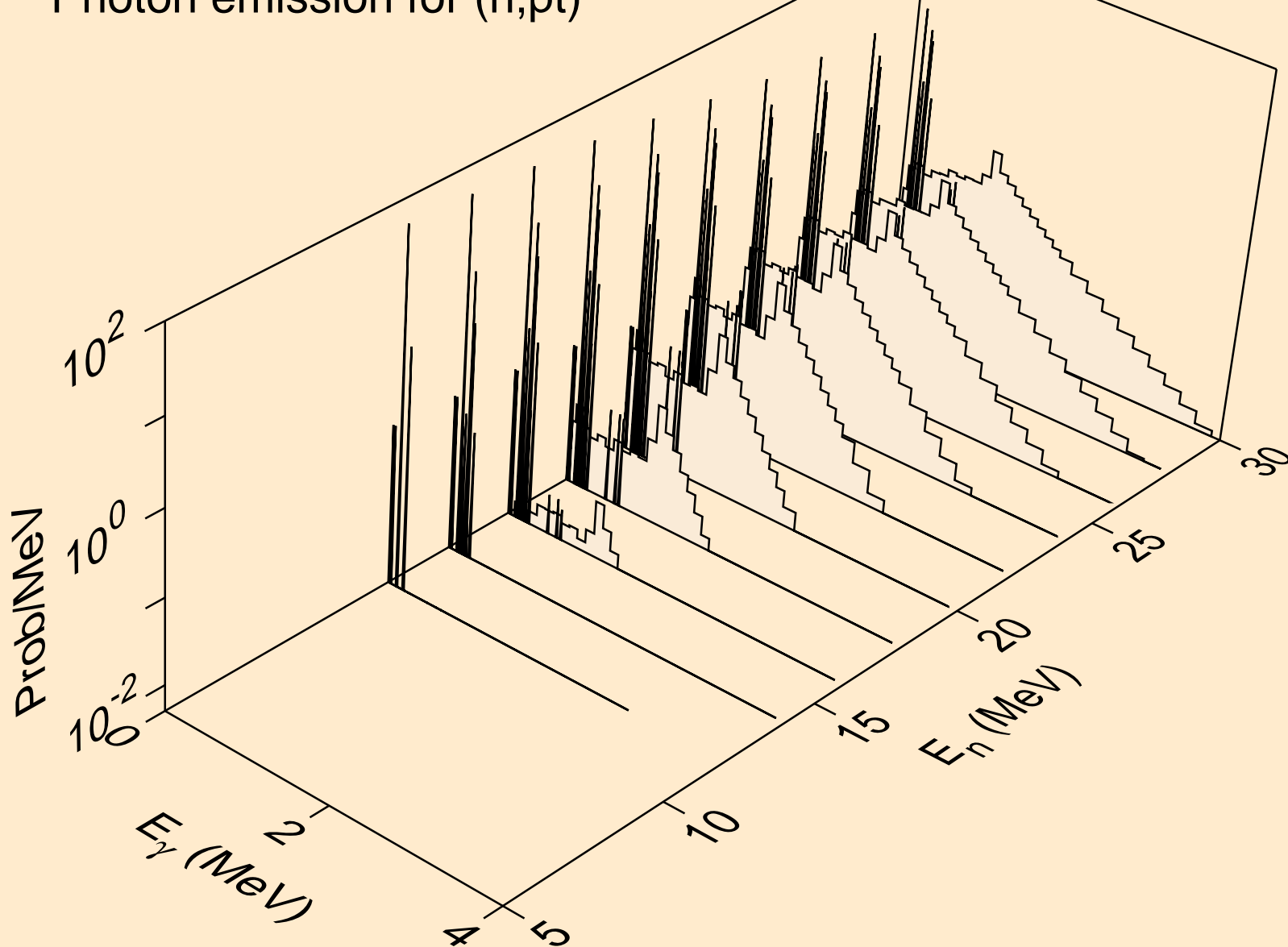
CS117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,d2a)



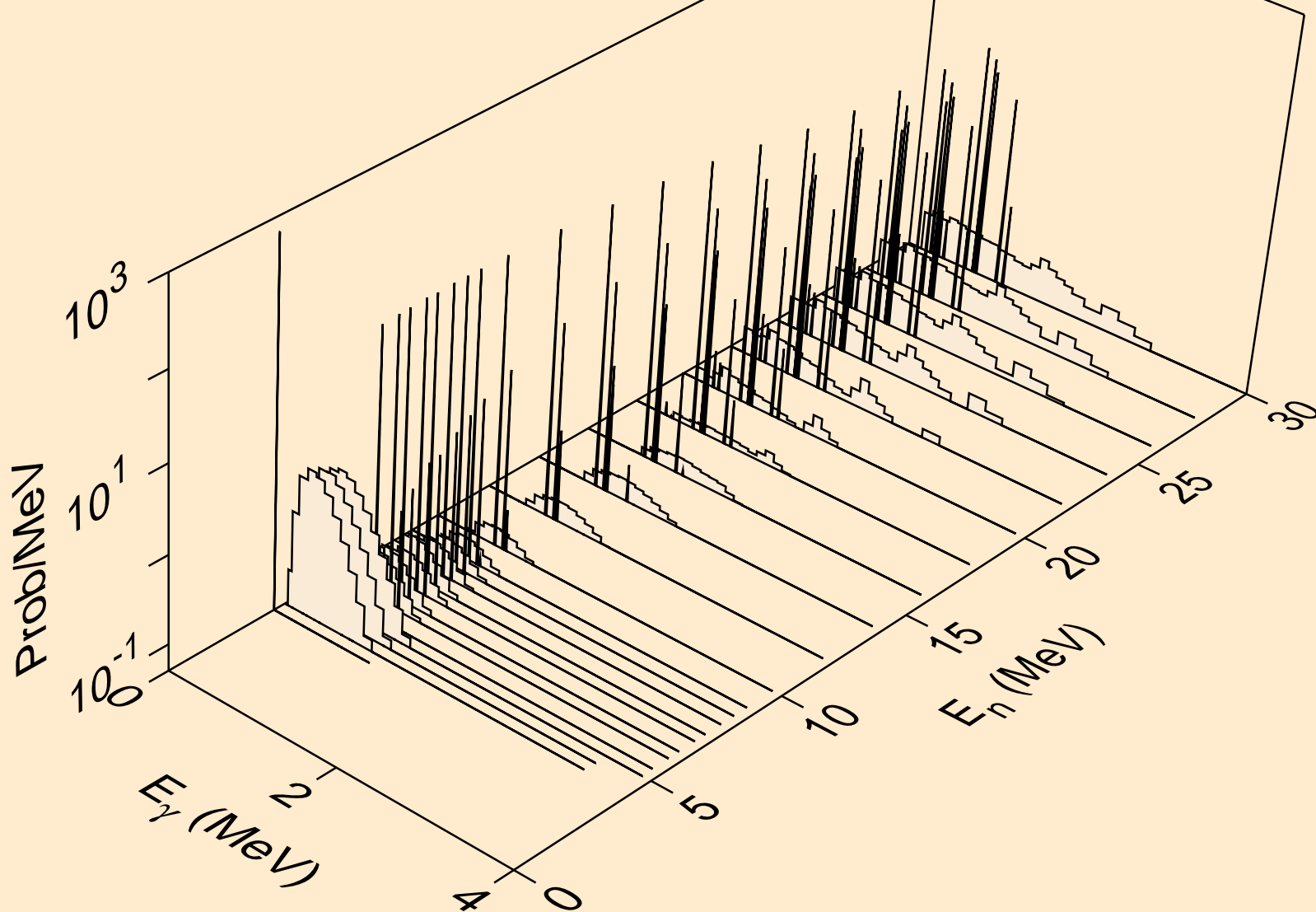
CS117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,pd)



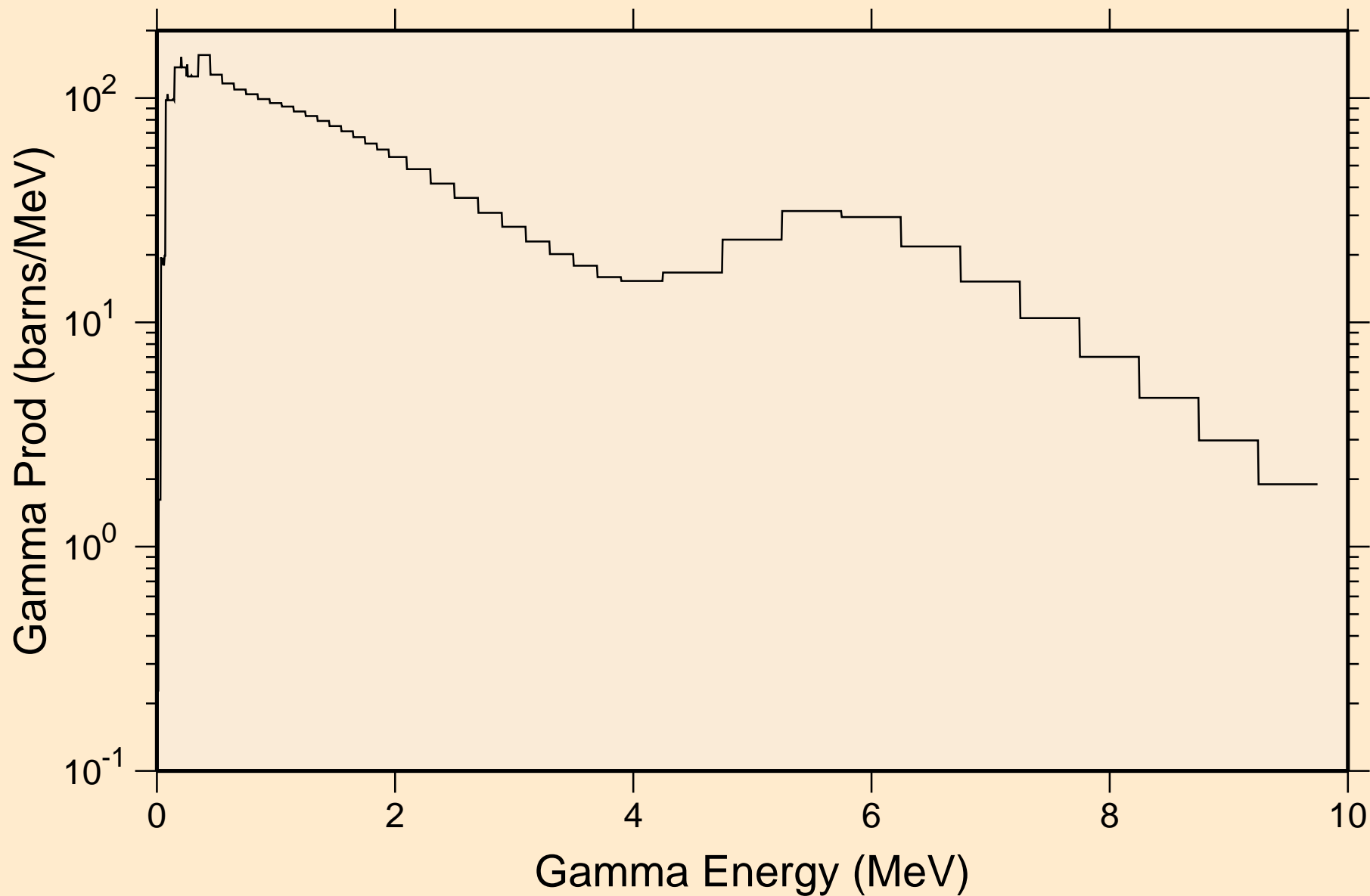
CS117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,pt)



CS117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,da)

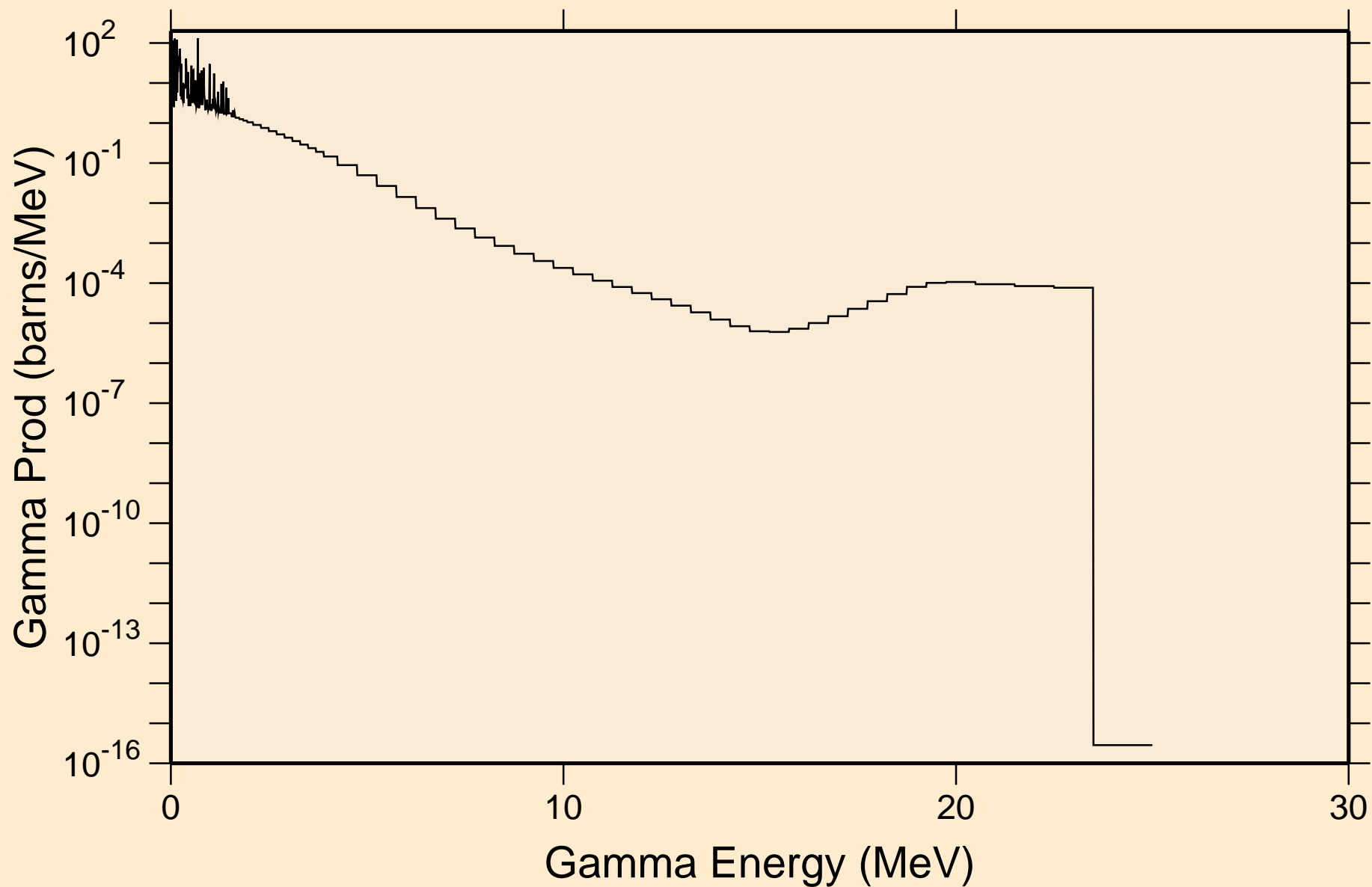


CS117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
thermal capture photon spectrum



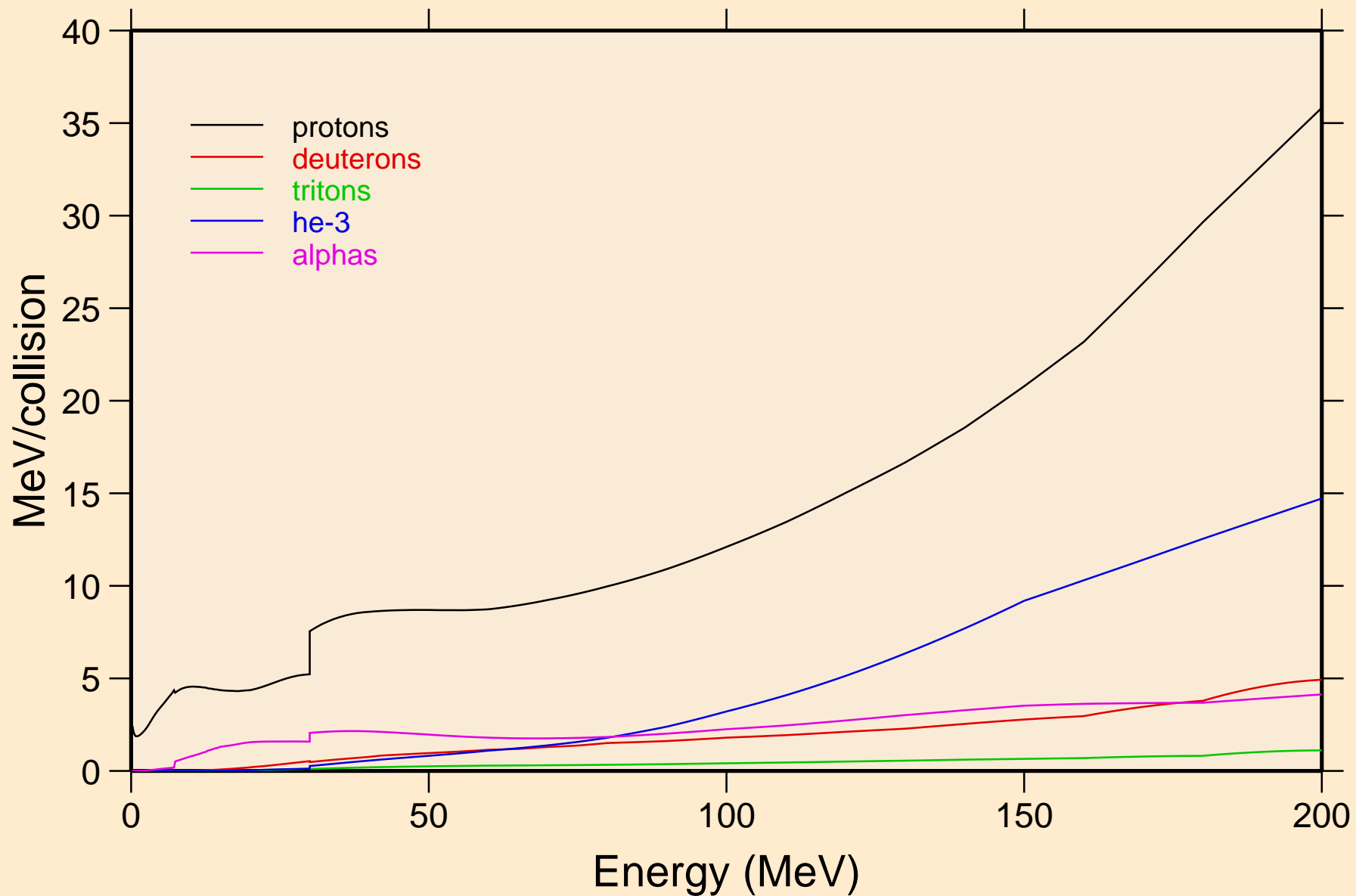


CS117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
14 MeV photon spectrum

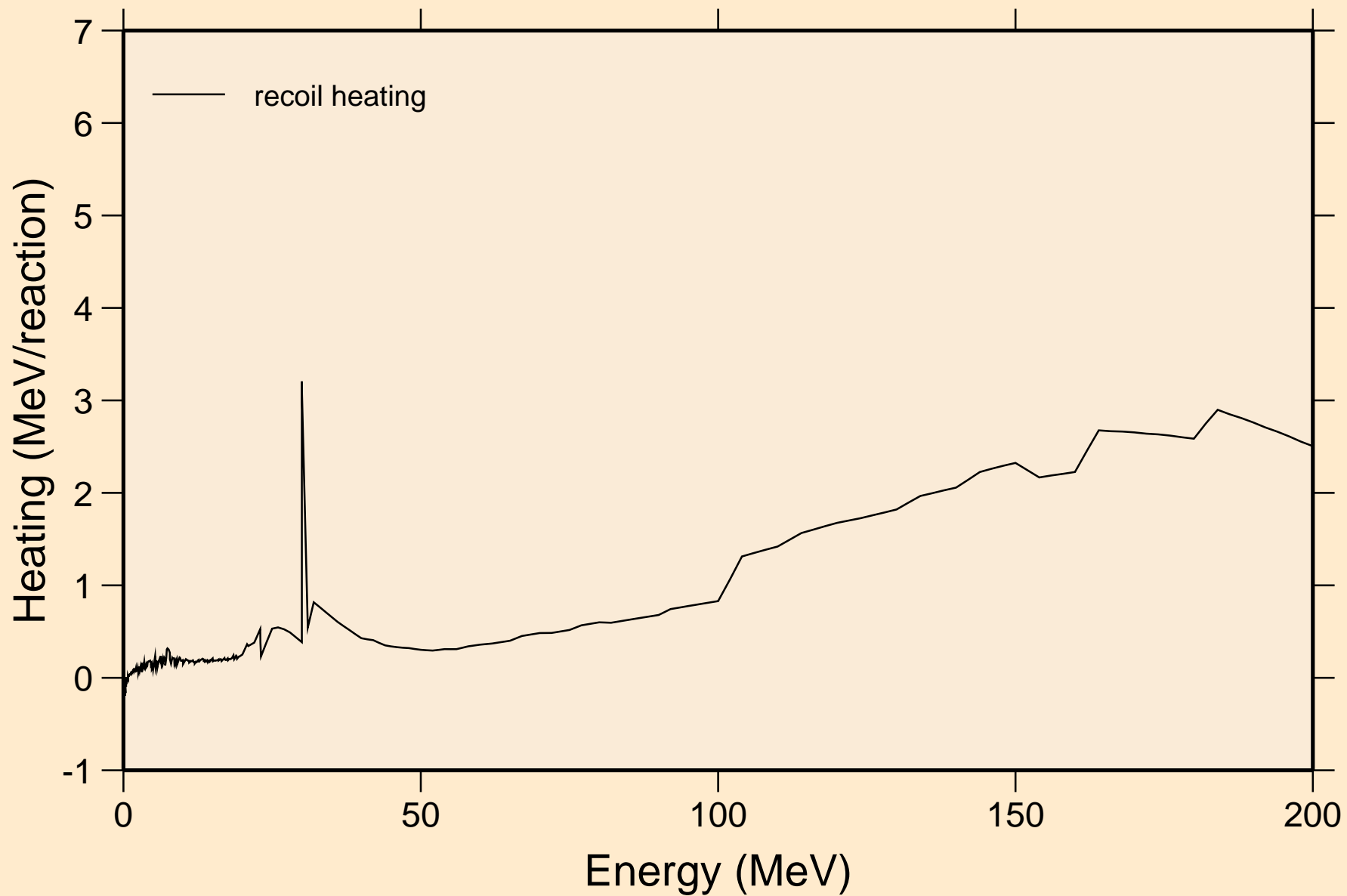


# CS117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K

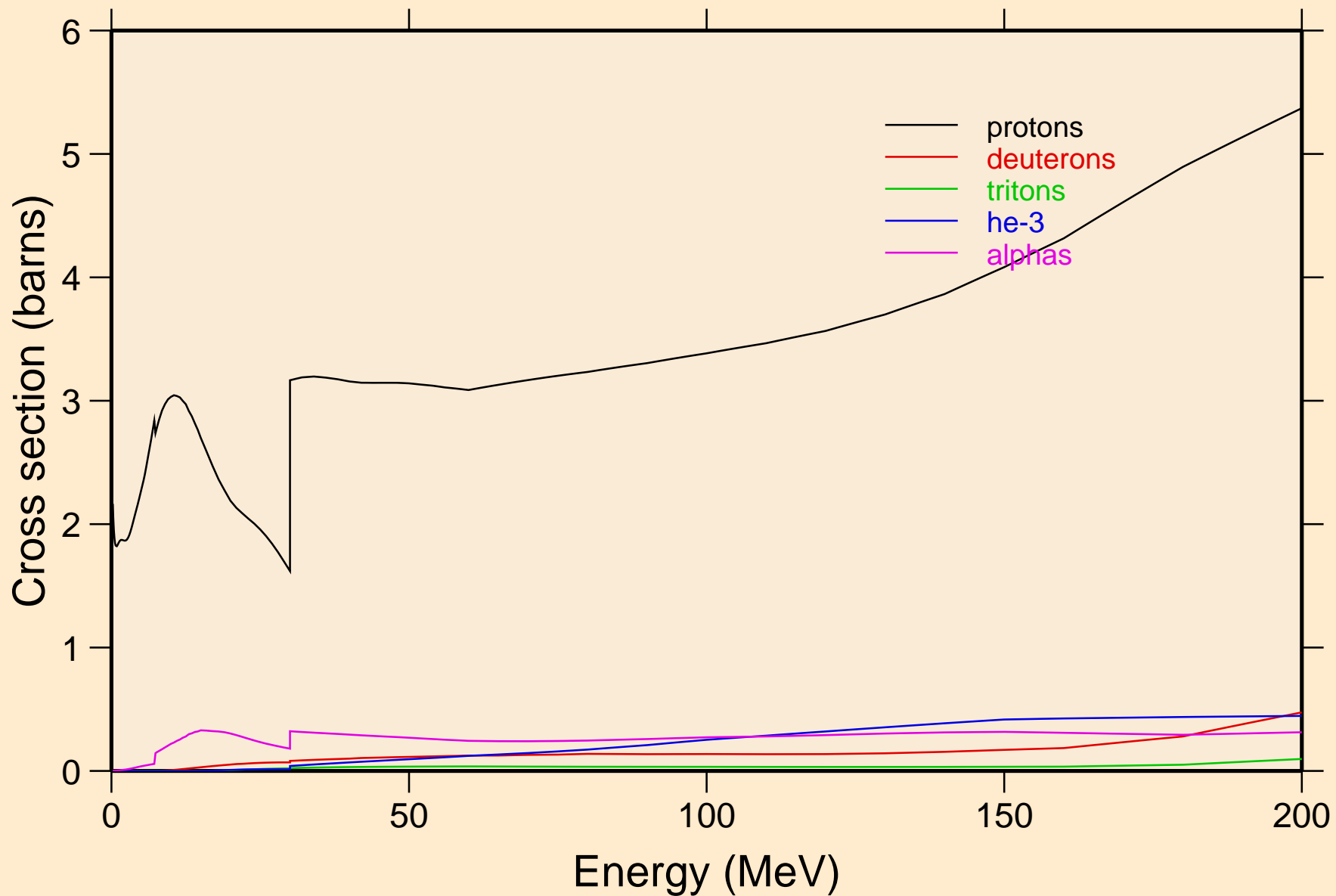
## Particle heating contributions



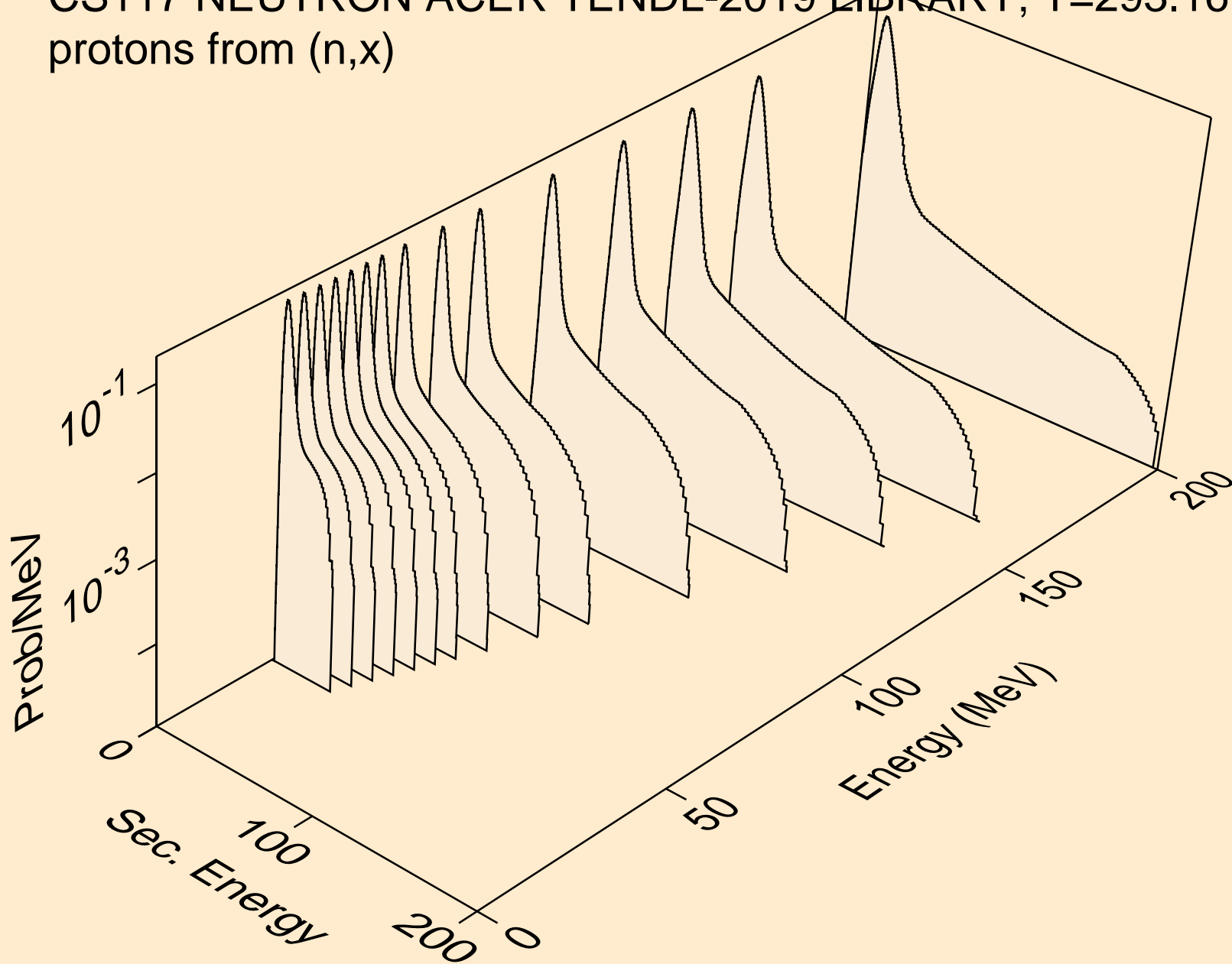
CS117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Recoil Heating



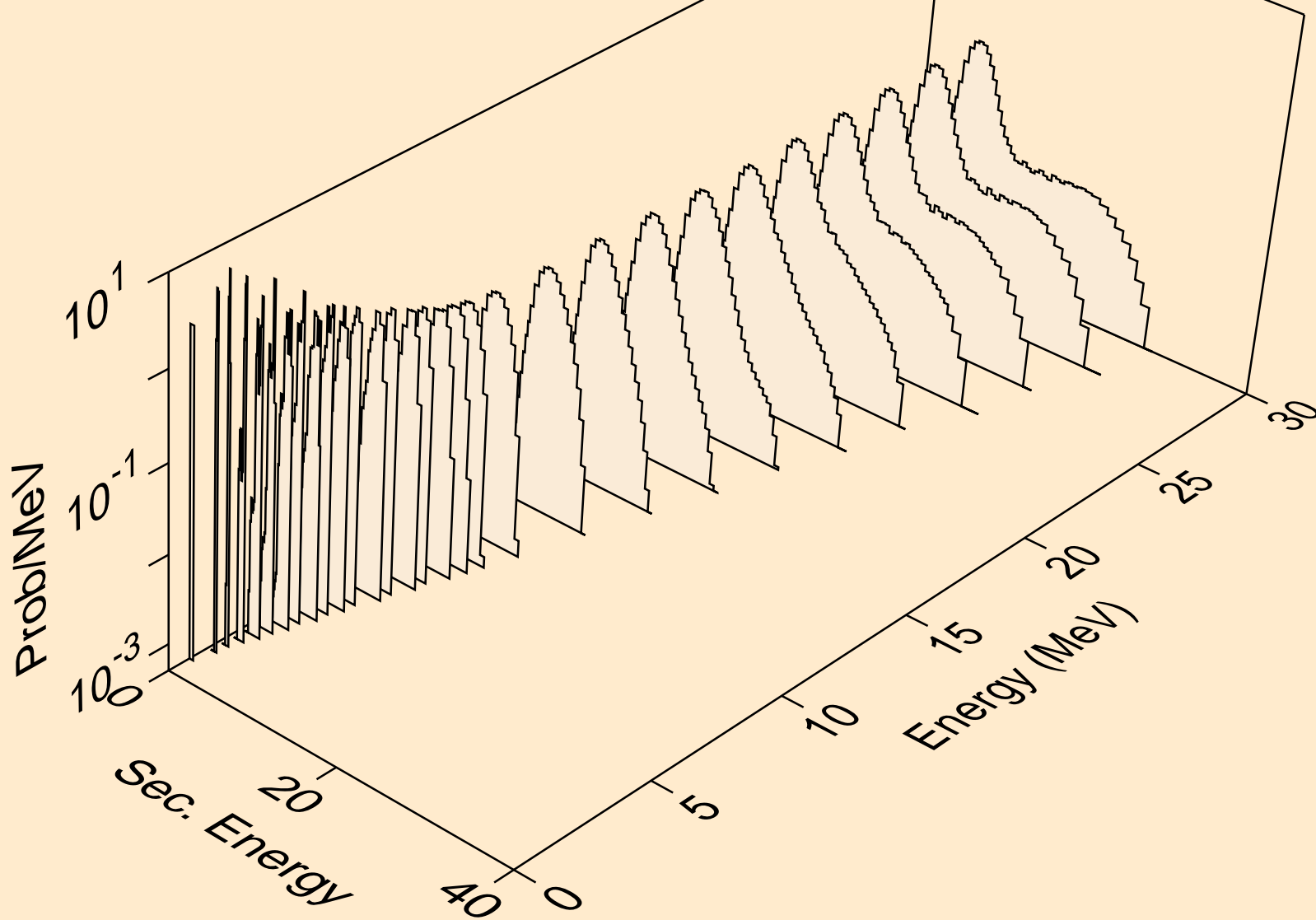
CS117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Particle production cross sections



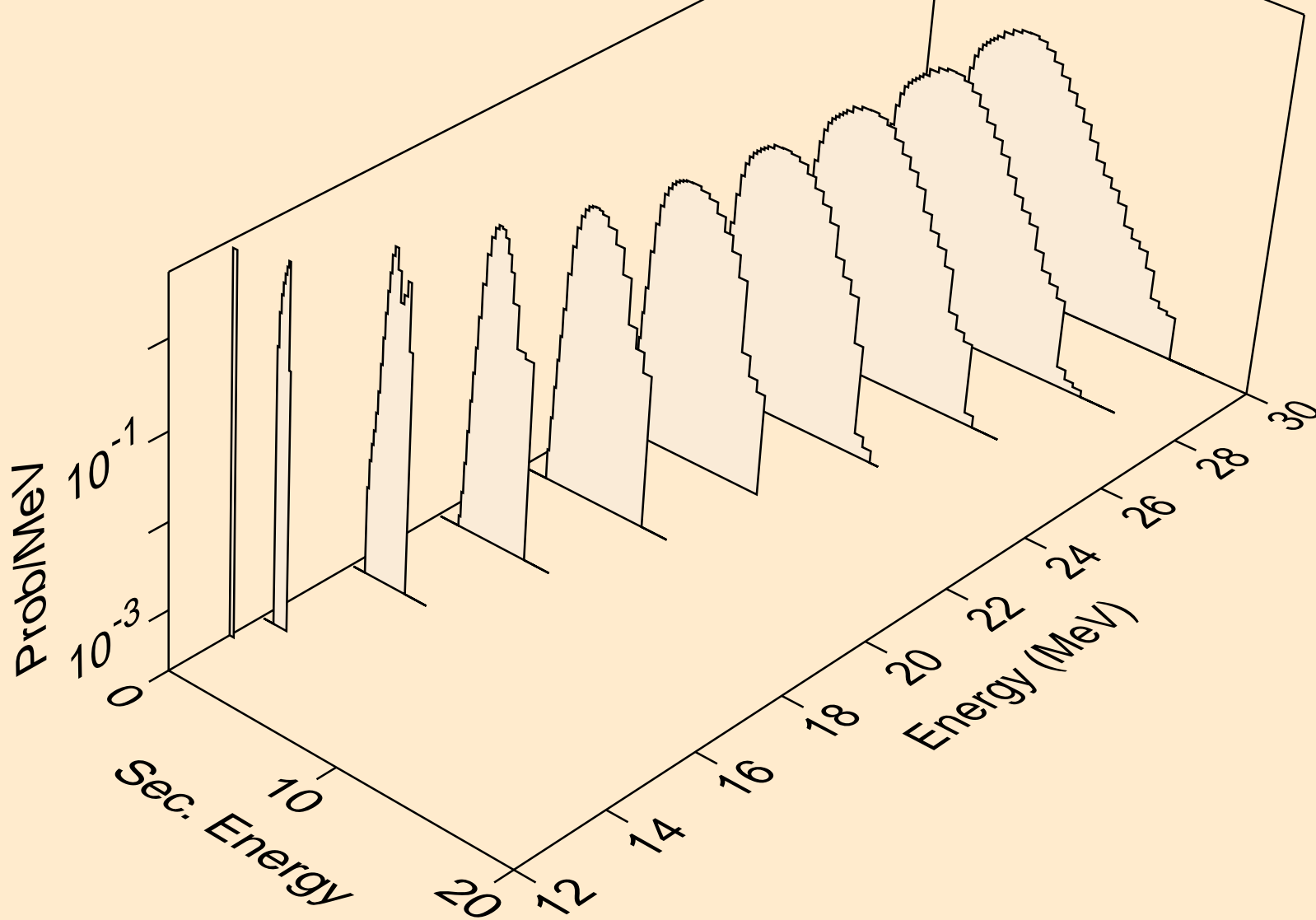
CS117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
protons from (n,x)



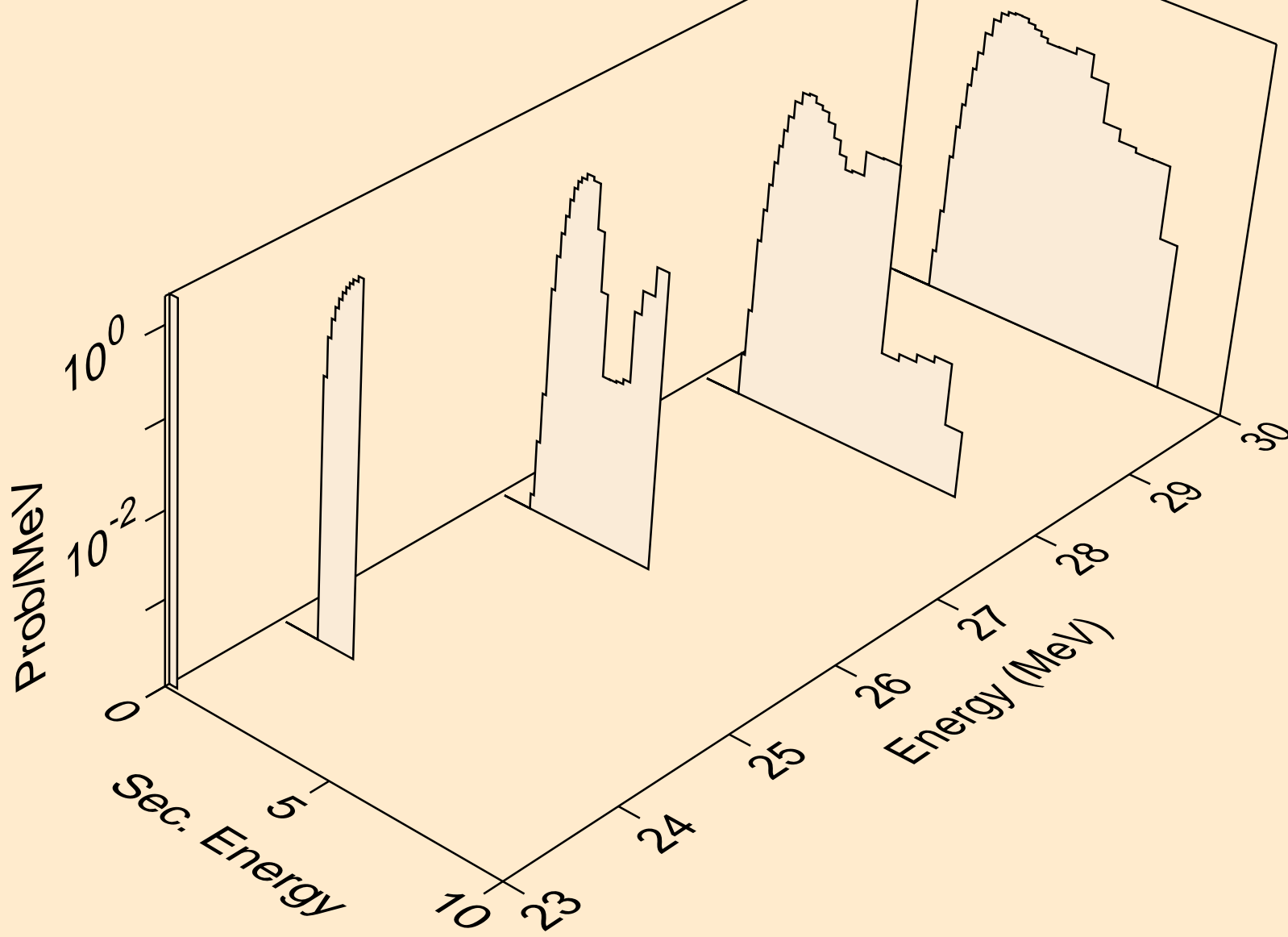
CS117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
protons from (n,n\*)p



CS117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
protons from (n,2np)

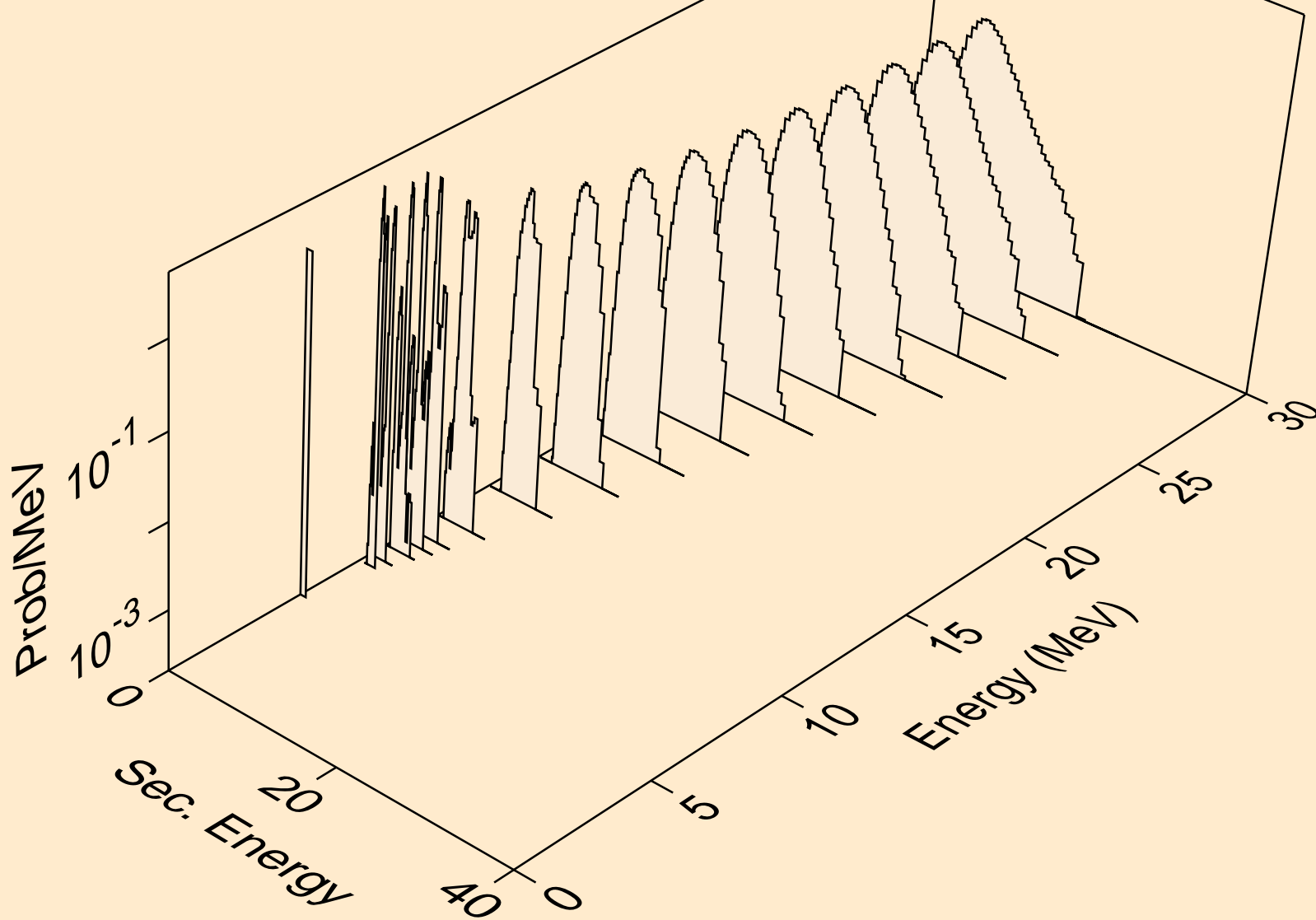


CS117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
protons from (n,3np)

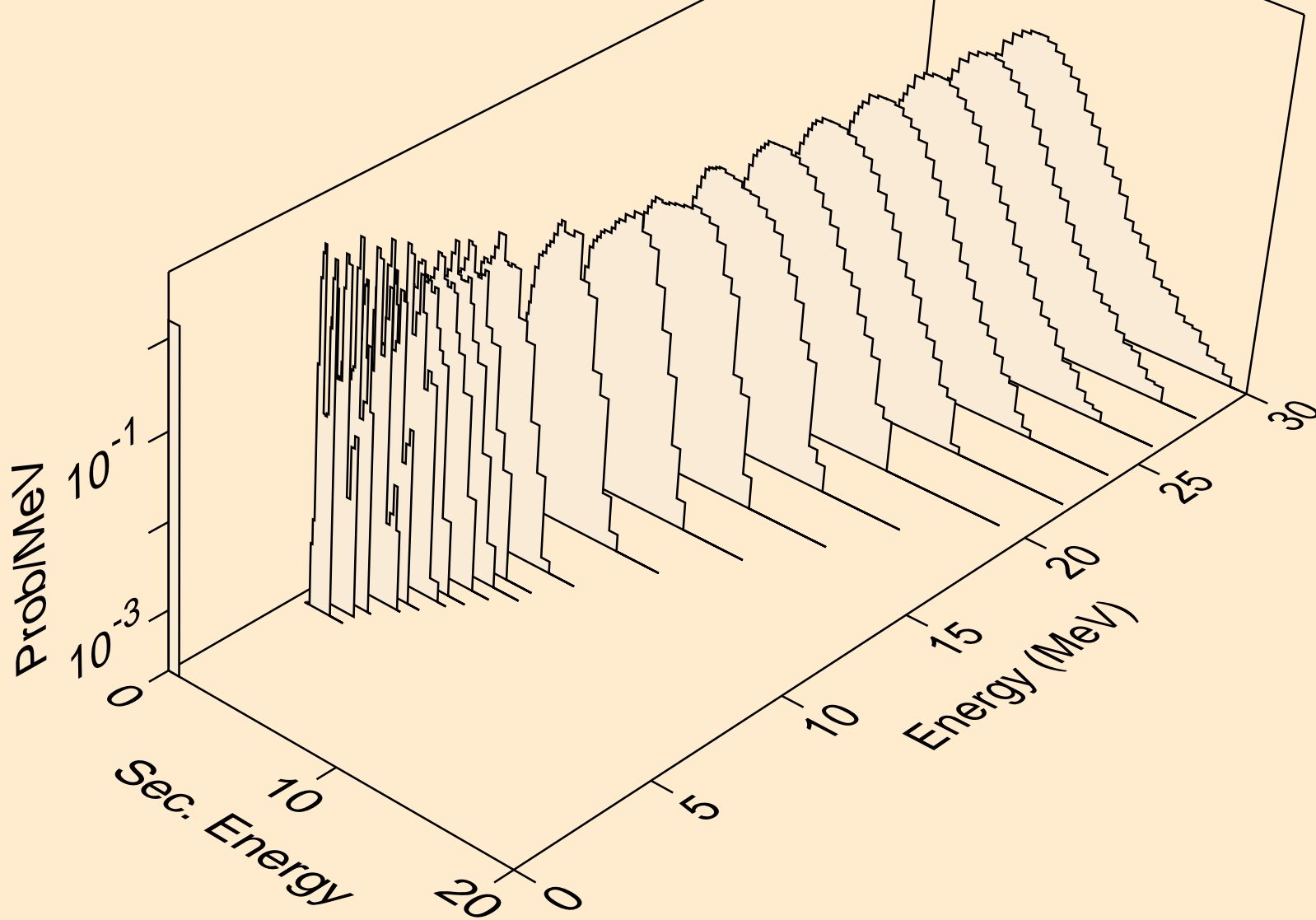




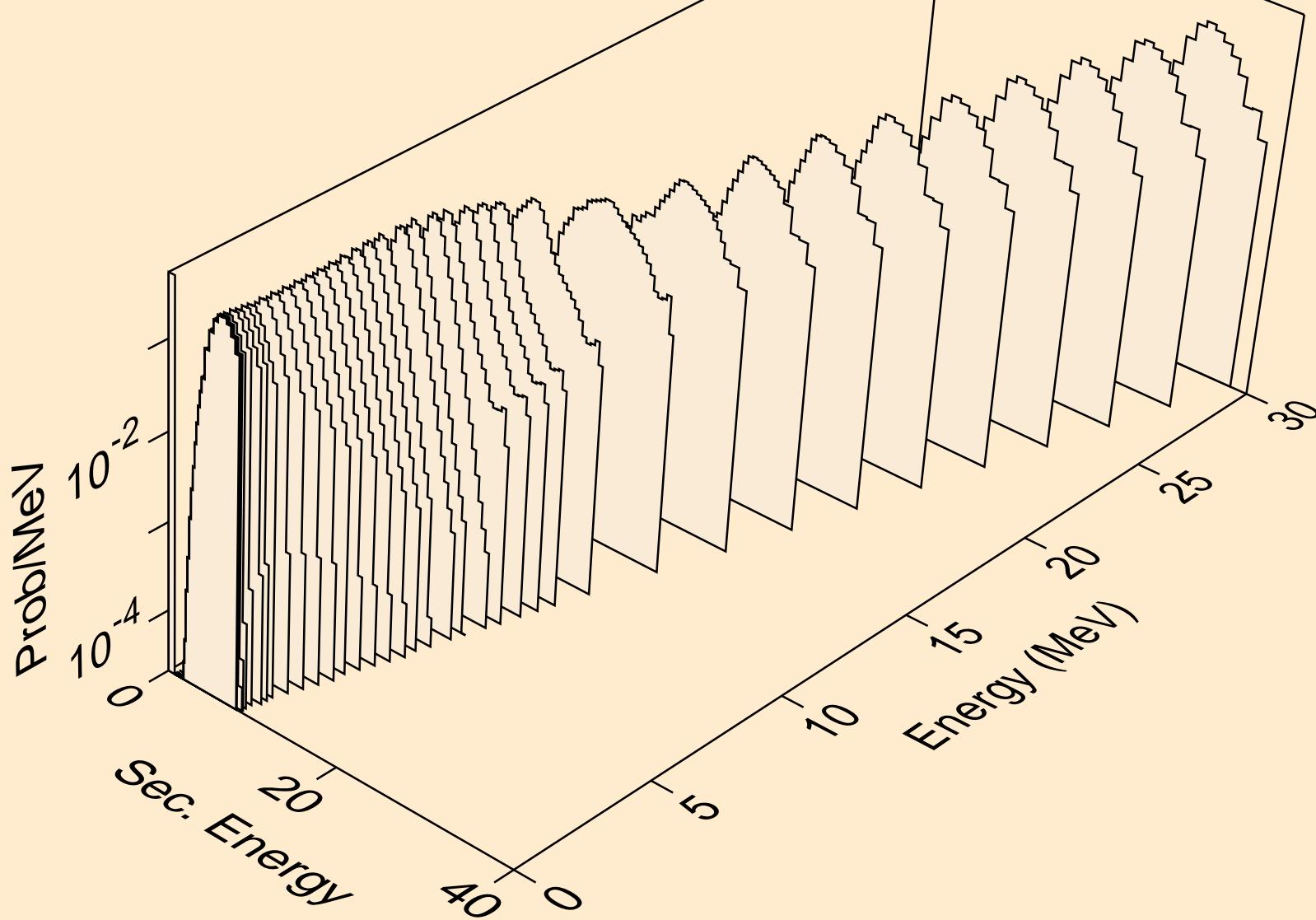
CS117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
protons from (n,2np)



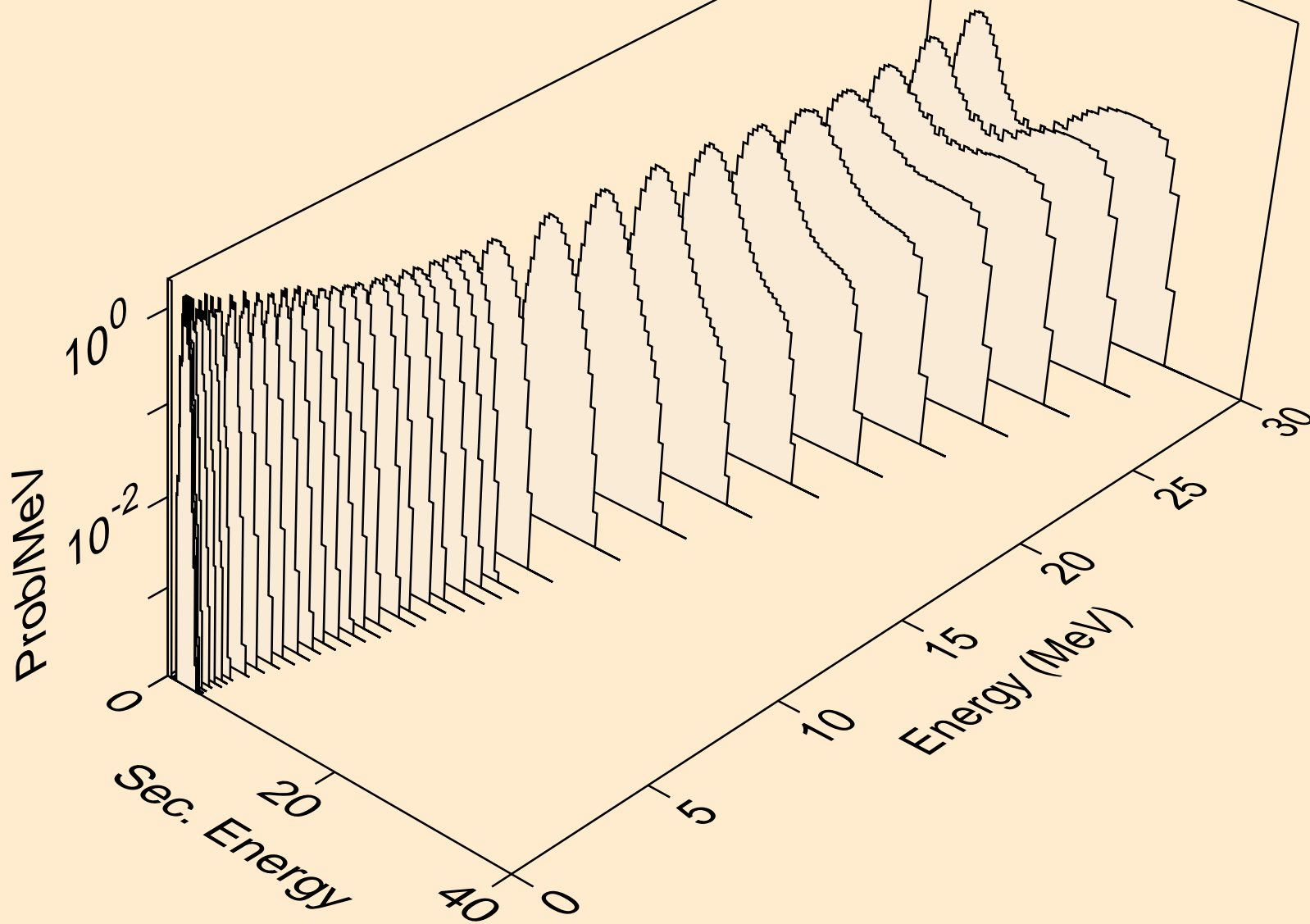
CS117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
protons from (n,npa)



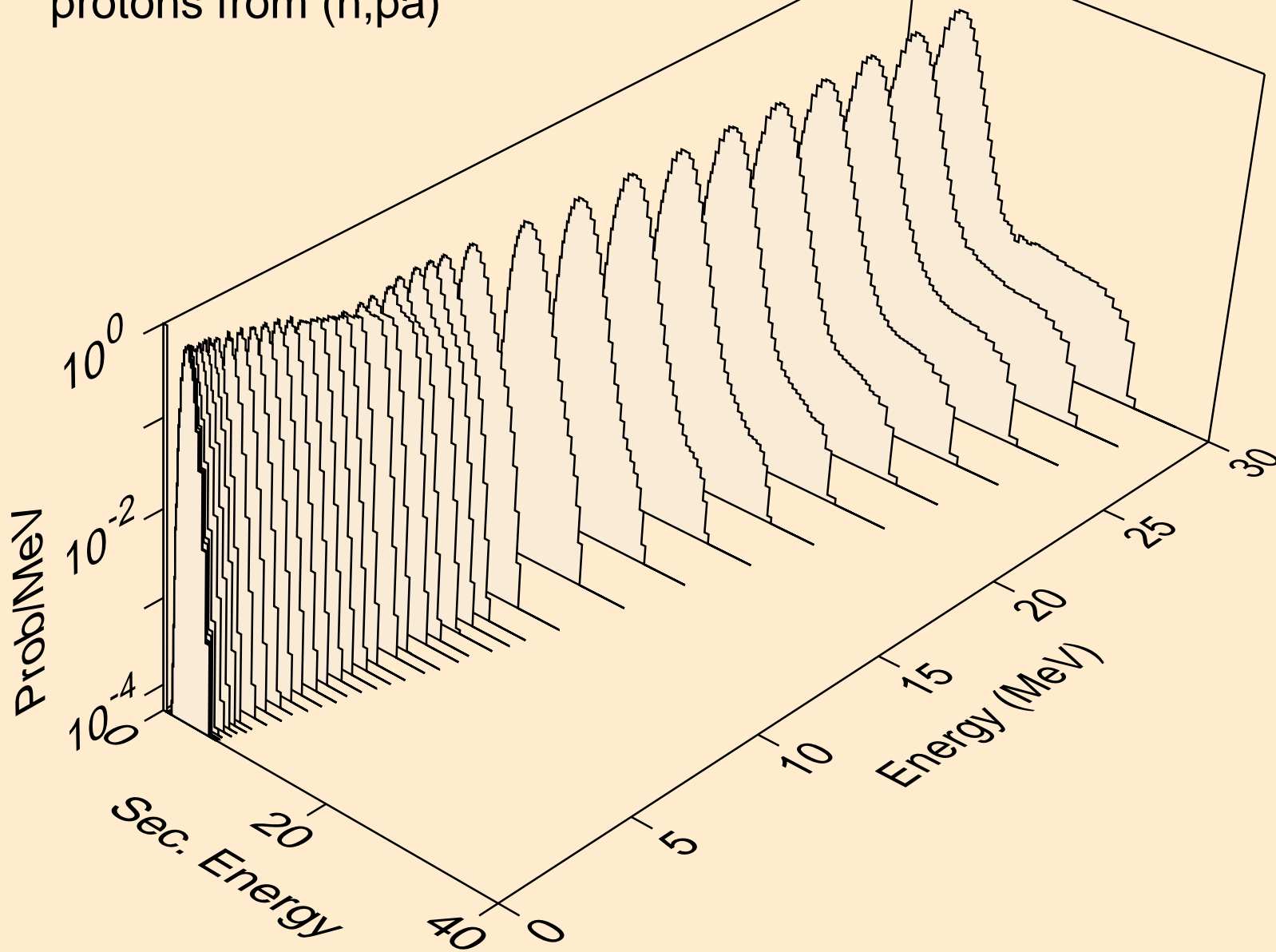
CS117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
protons from (n,p)



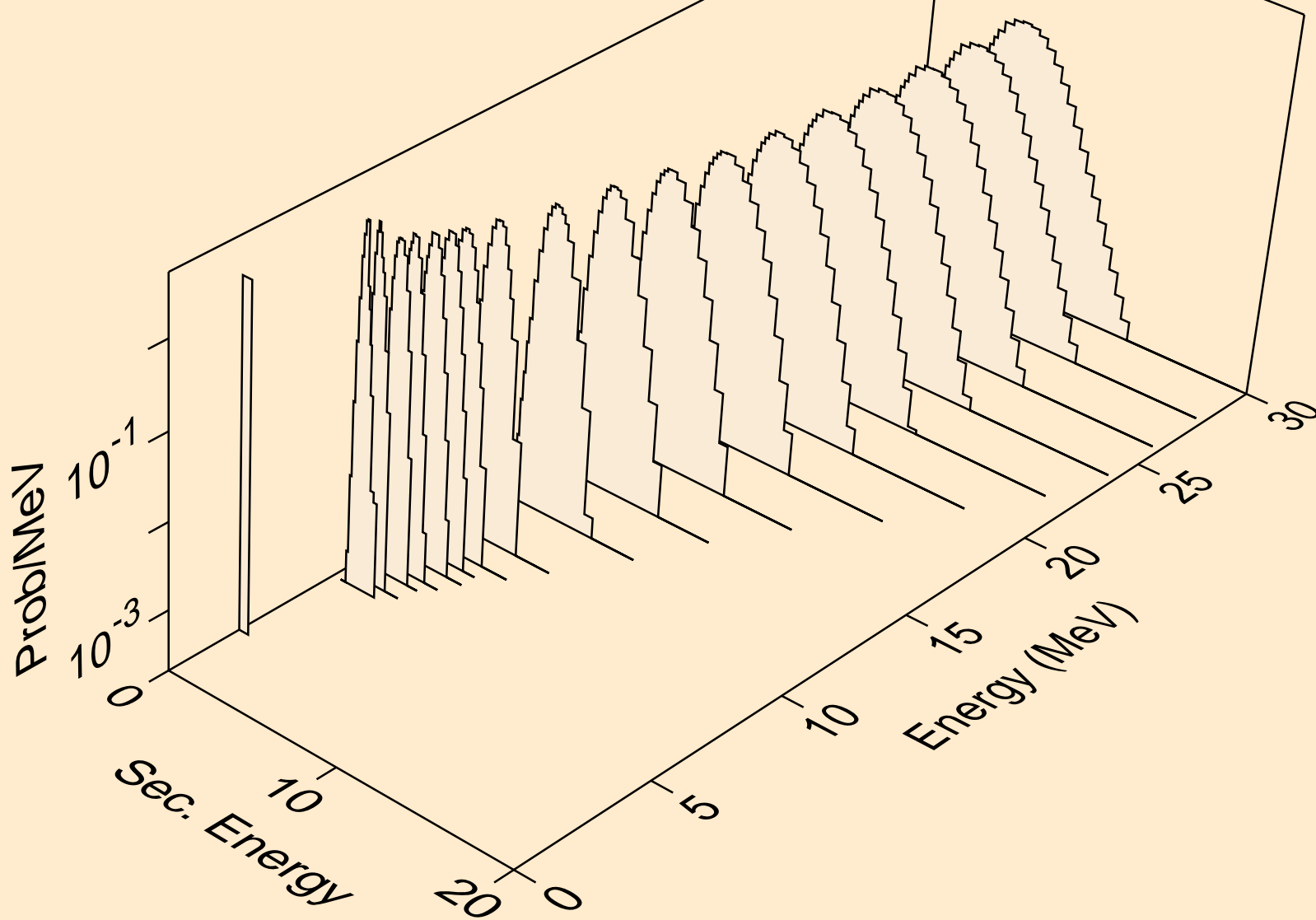
CS117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
protons from (n,2p)



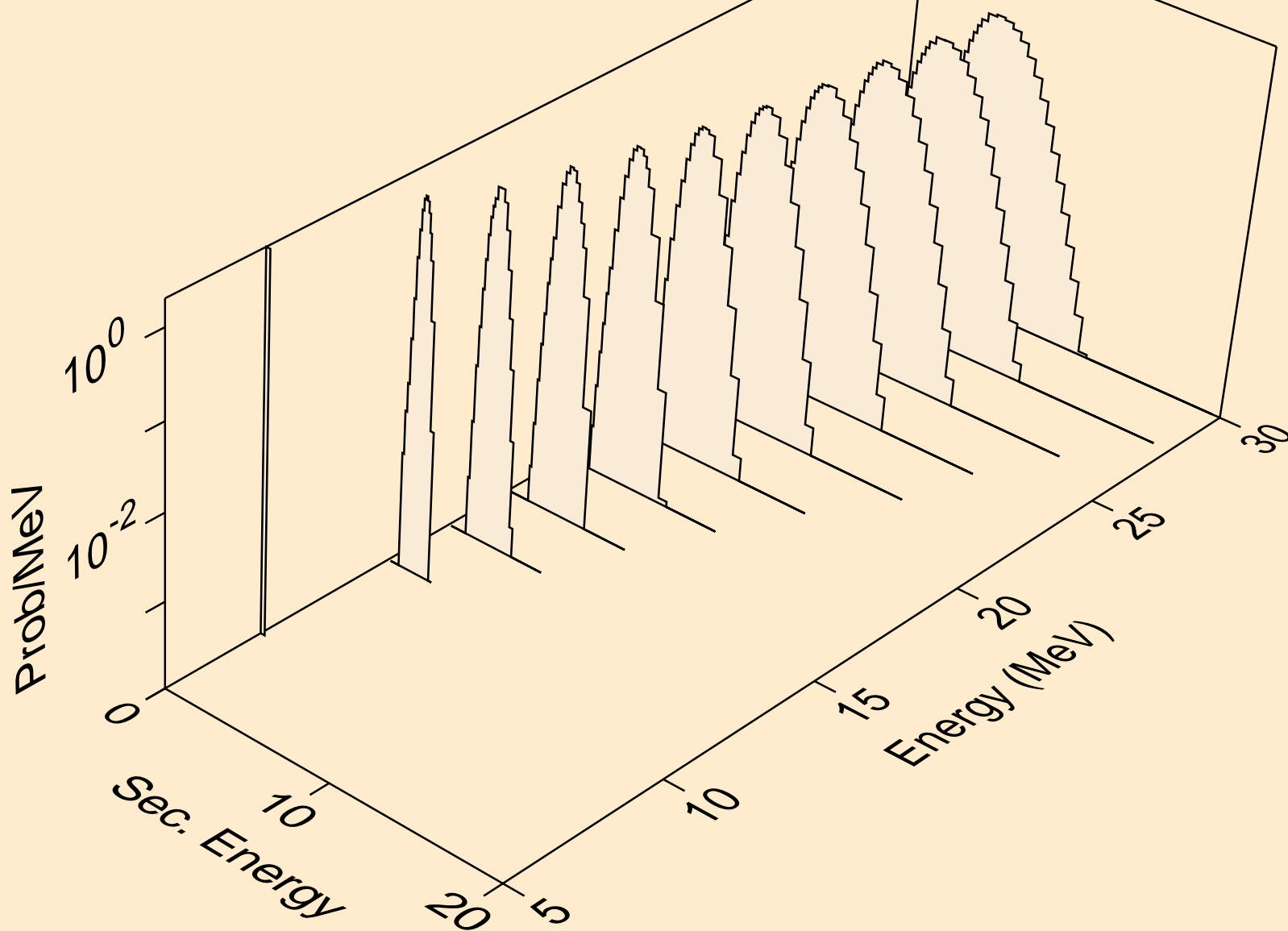
CS117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
protons from (n,p)



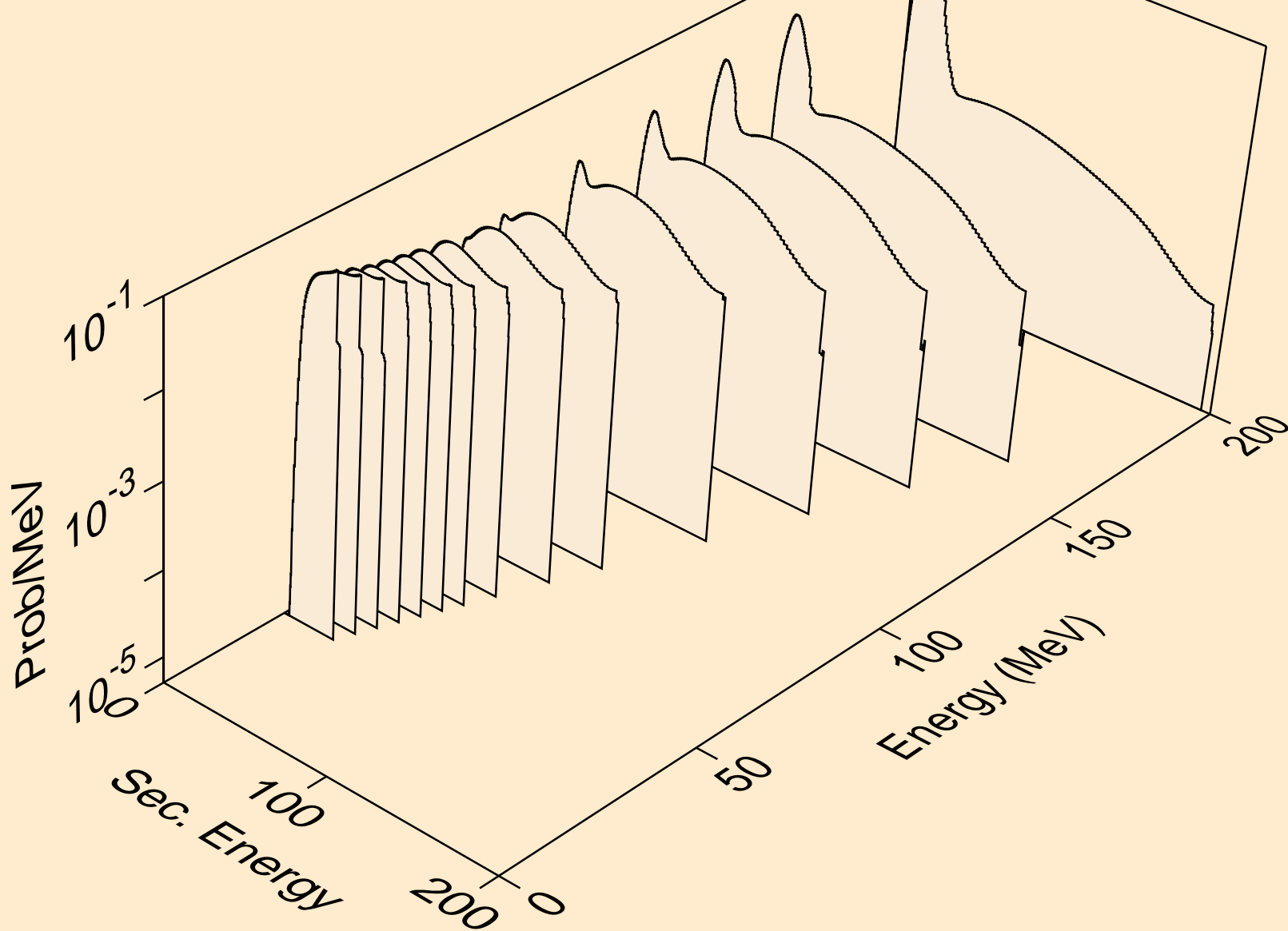
CS117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
protons from (n,pd)



CS117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
protons from (n,pt)

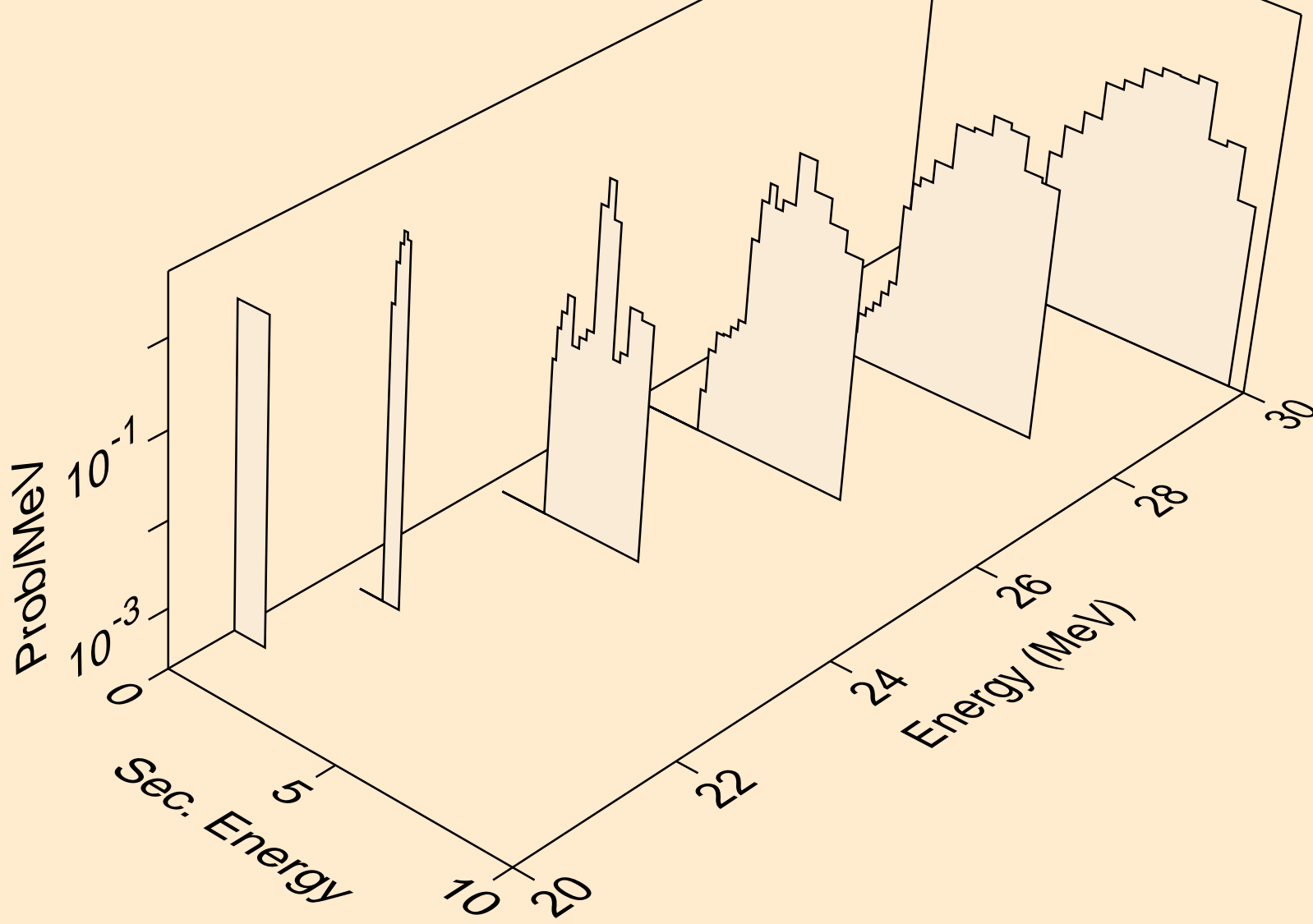


CS117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
deuterons from (n,x)

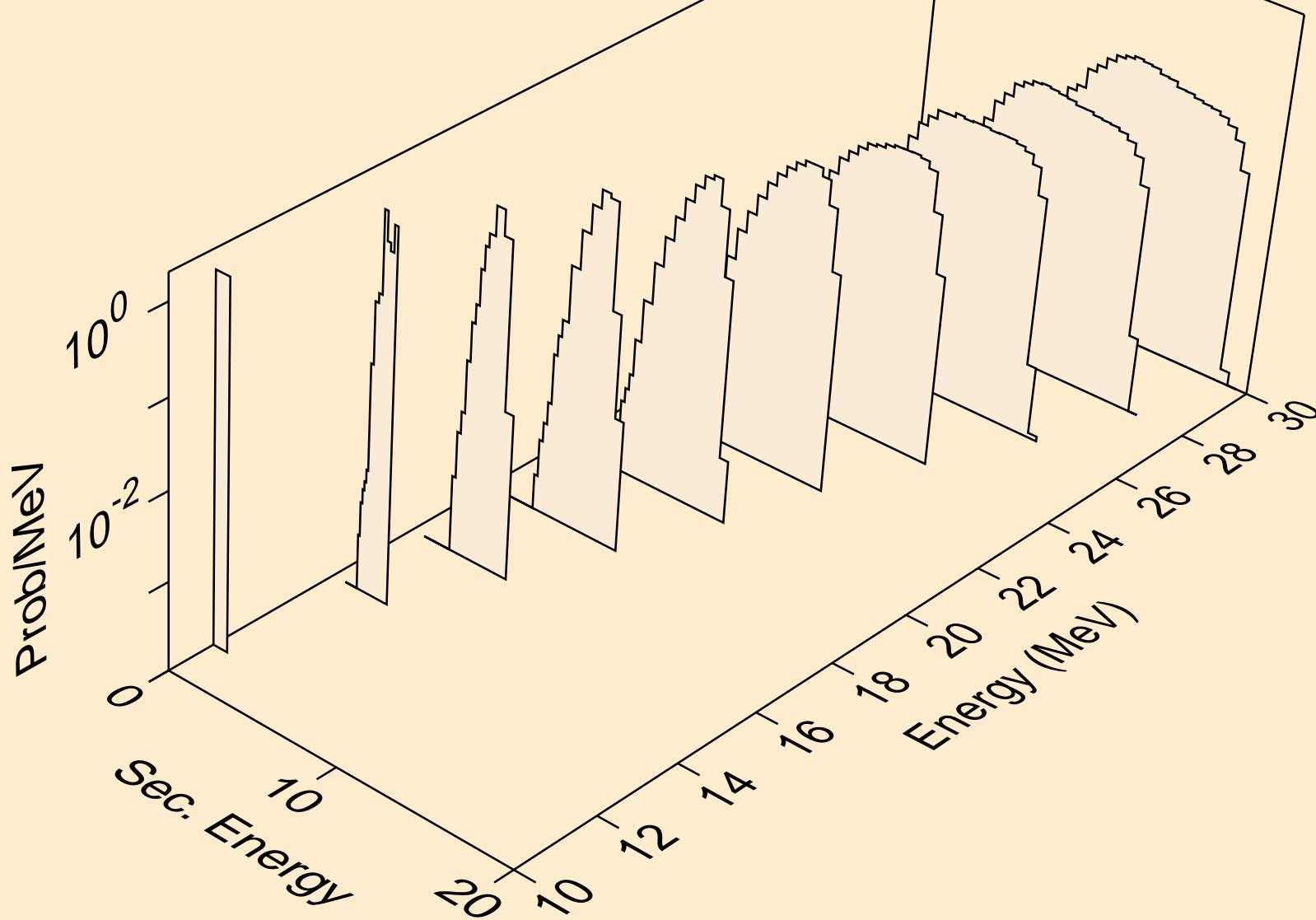




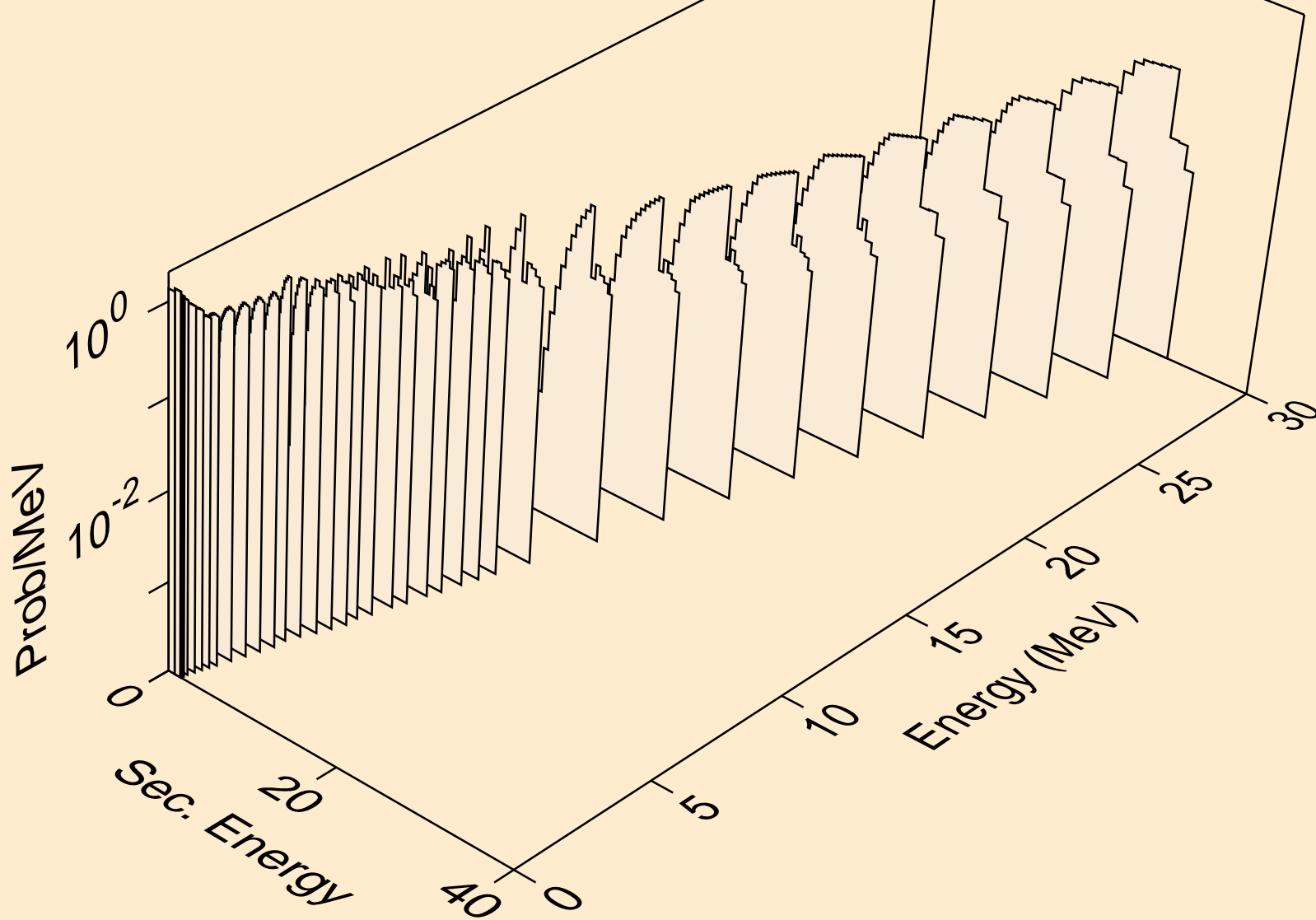
CS117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
deuterons from (n,2nd)



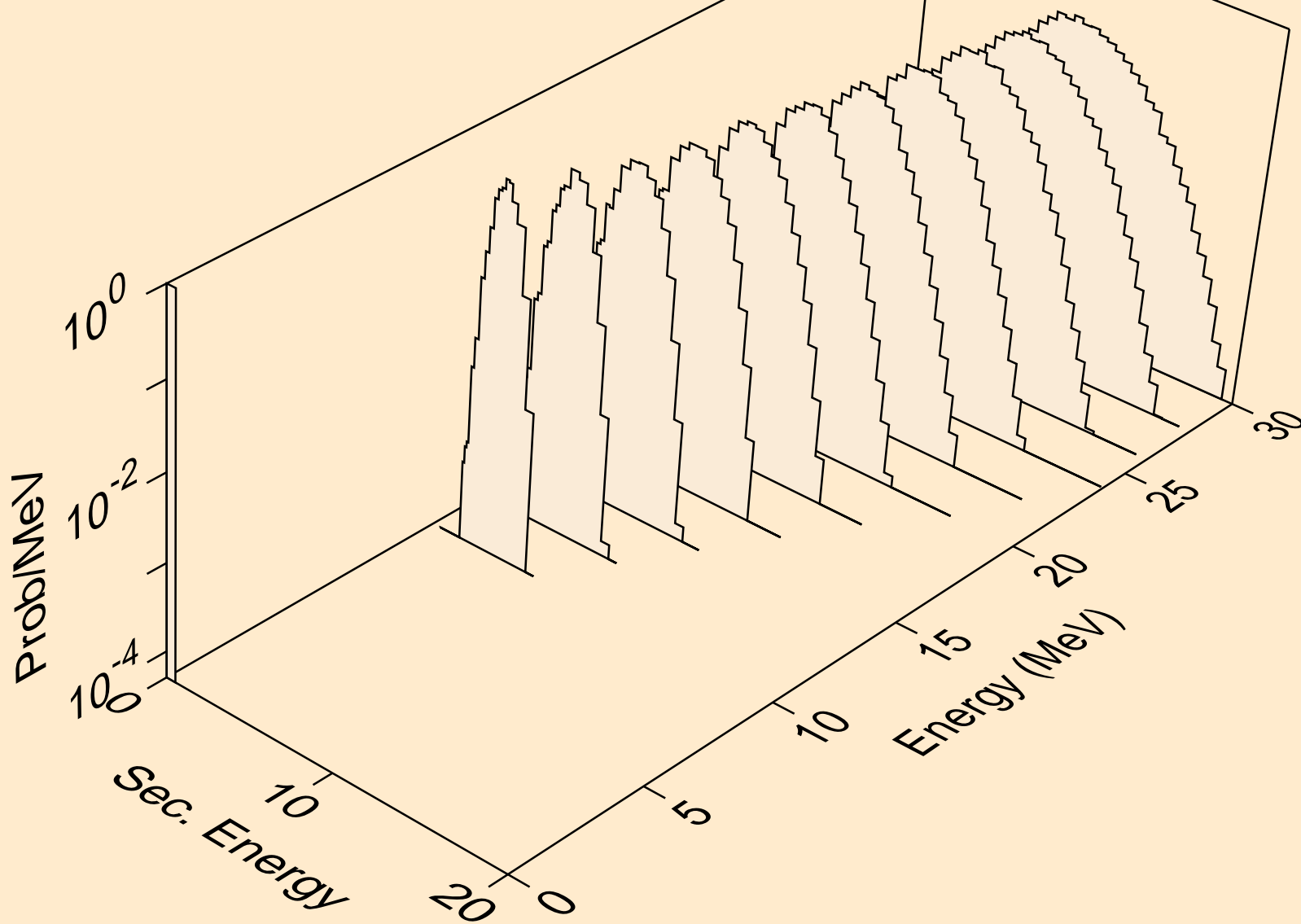
CS117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
deuterons from (n,n\*)d



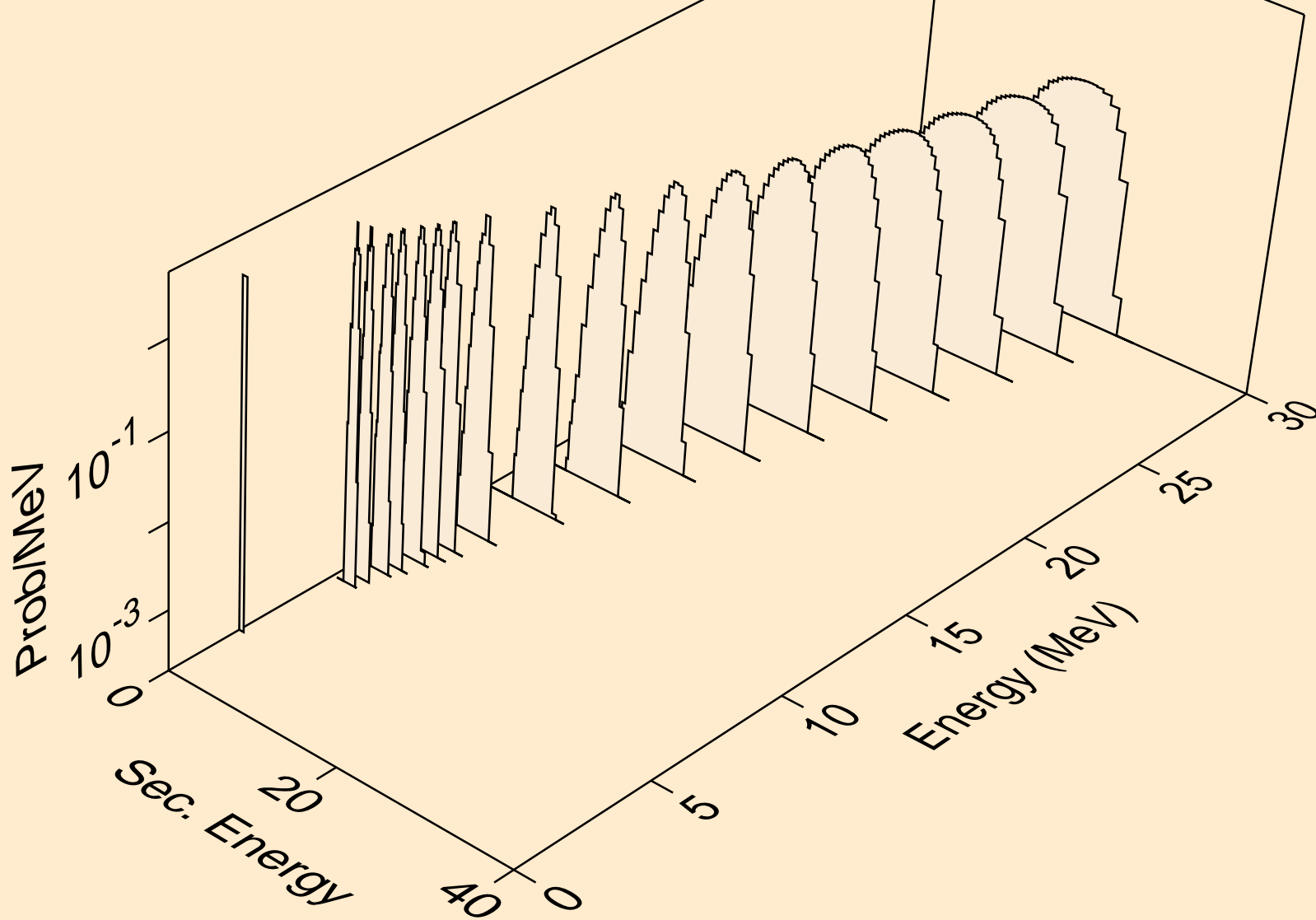
CS117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
deuterons from (n,d)



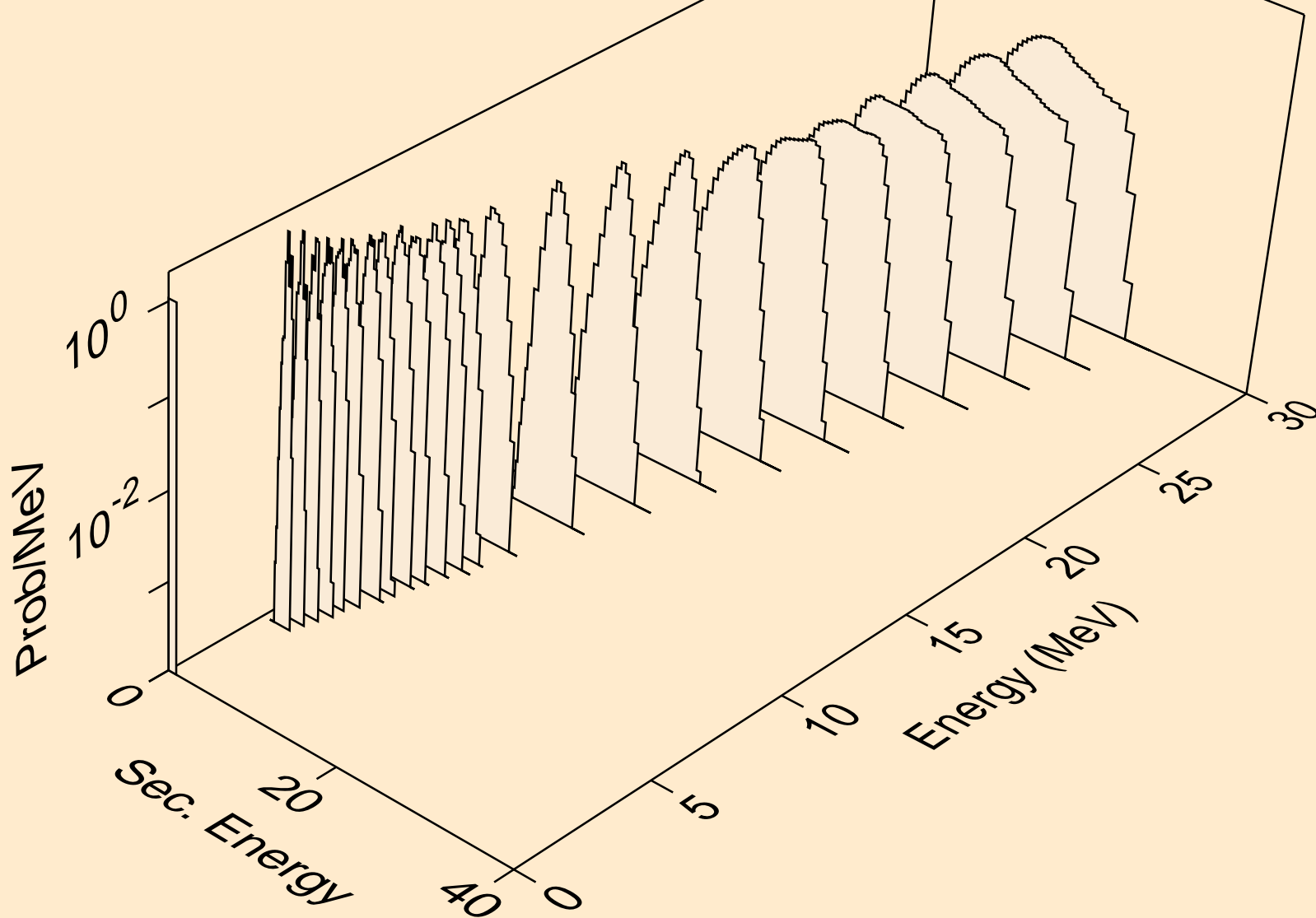
CS117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
deuterons from (n,d2a)



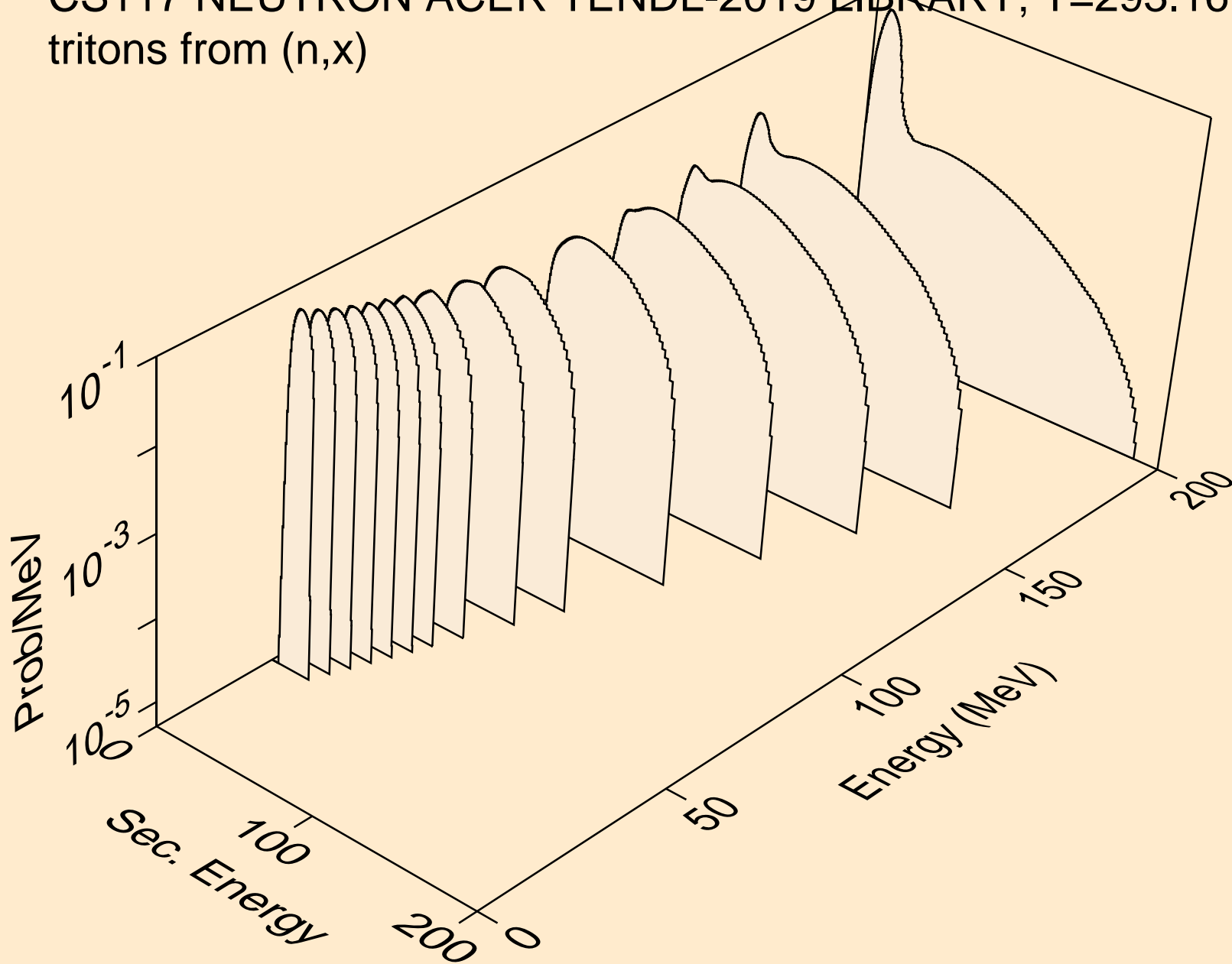
CS117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
deuterons from (n,pd)



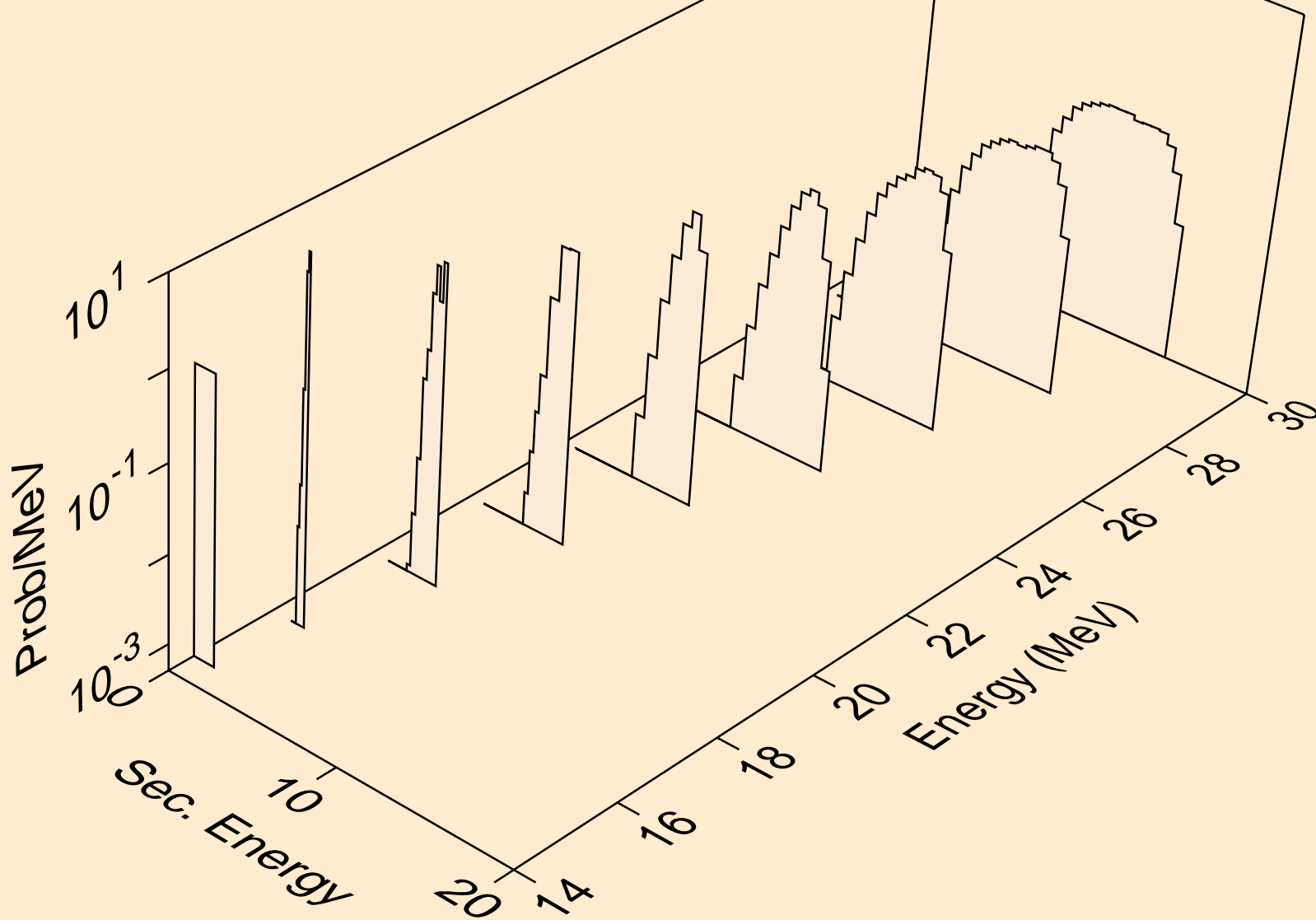
CS117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
deuterons from (n,da)



CS117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
tritons from (n,x)

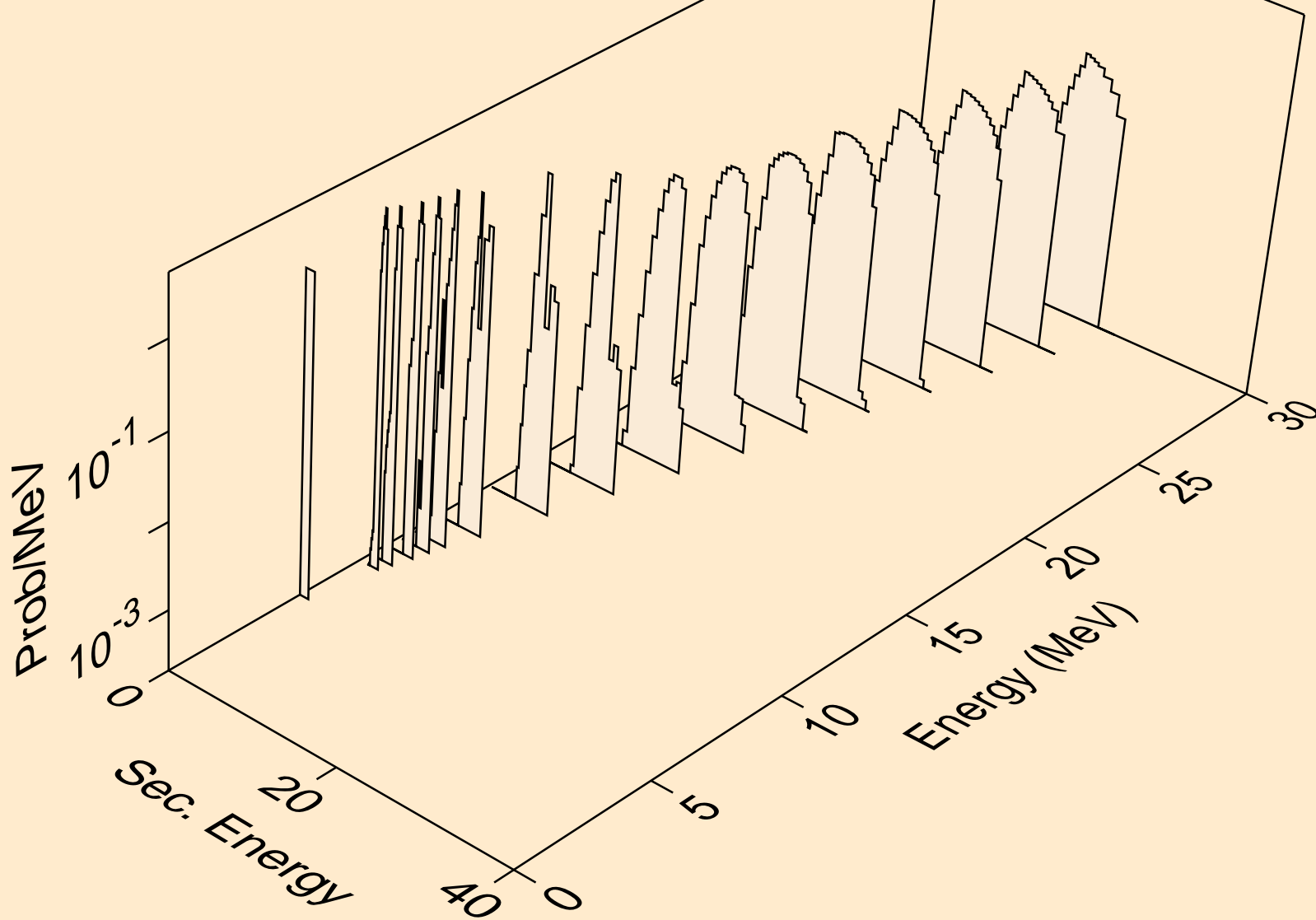


CS117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
tritons from (n,n\*)t

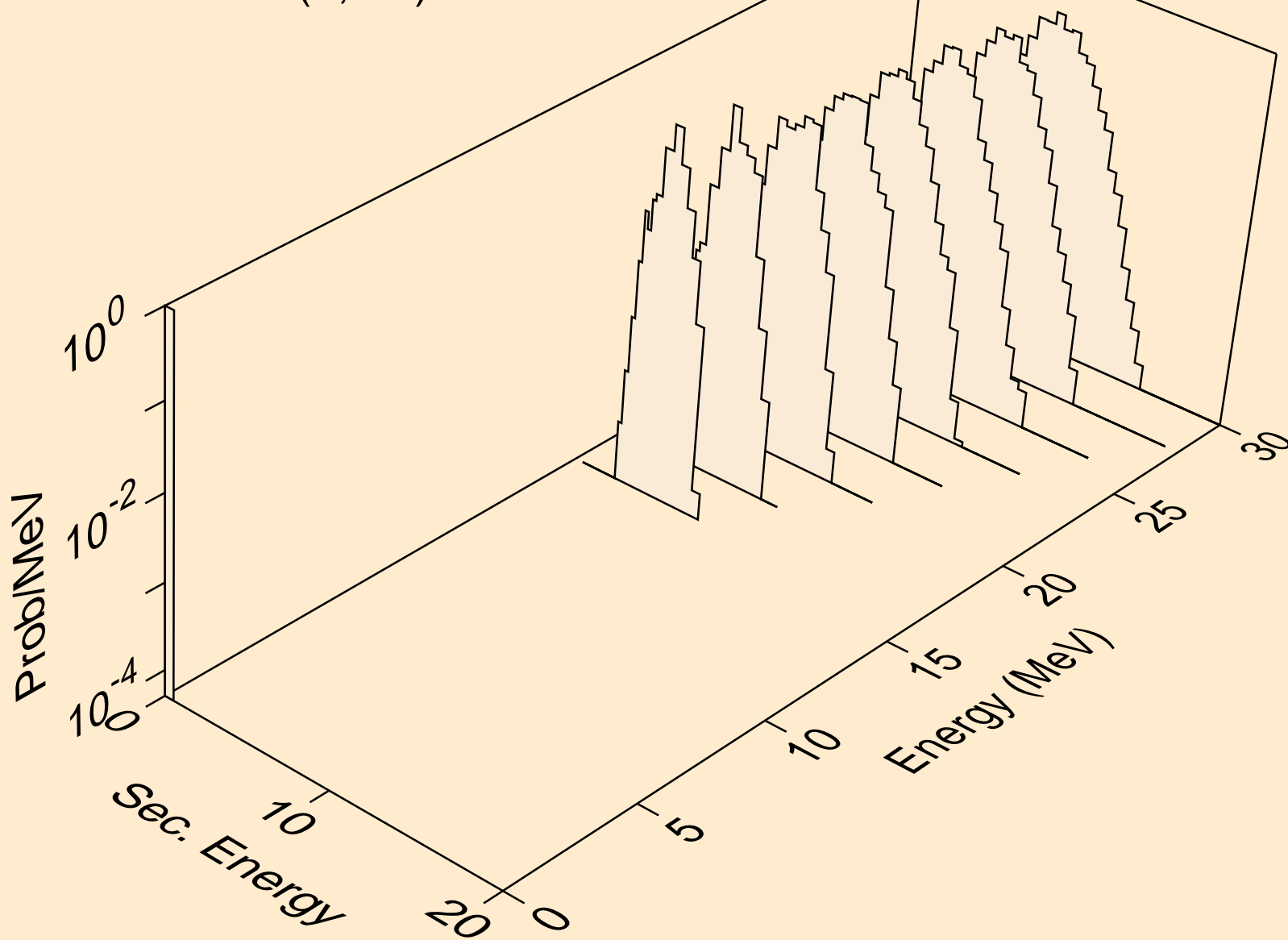




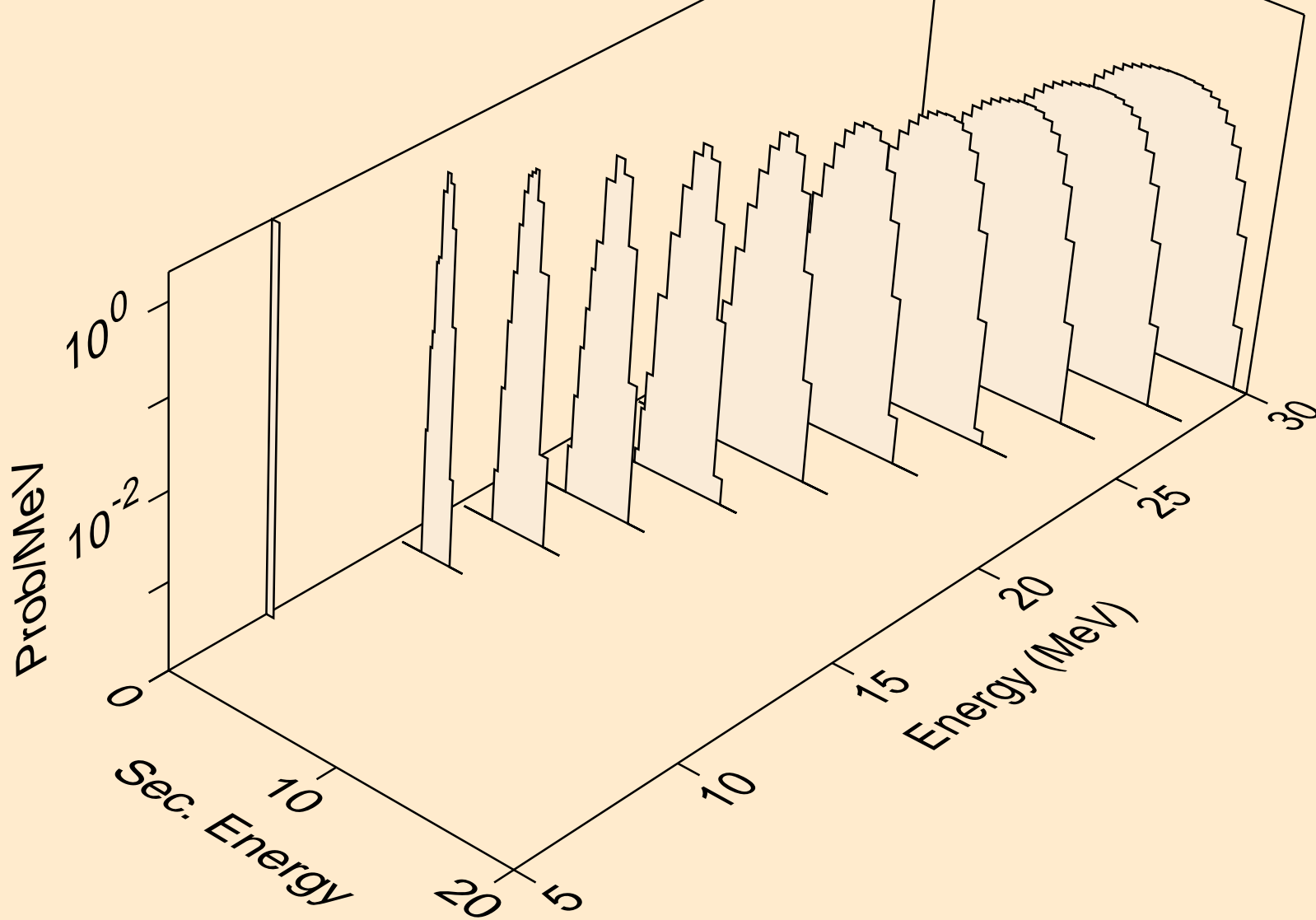
CS117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
tritons from (n,t)



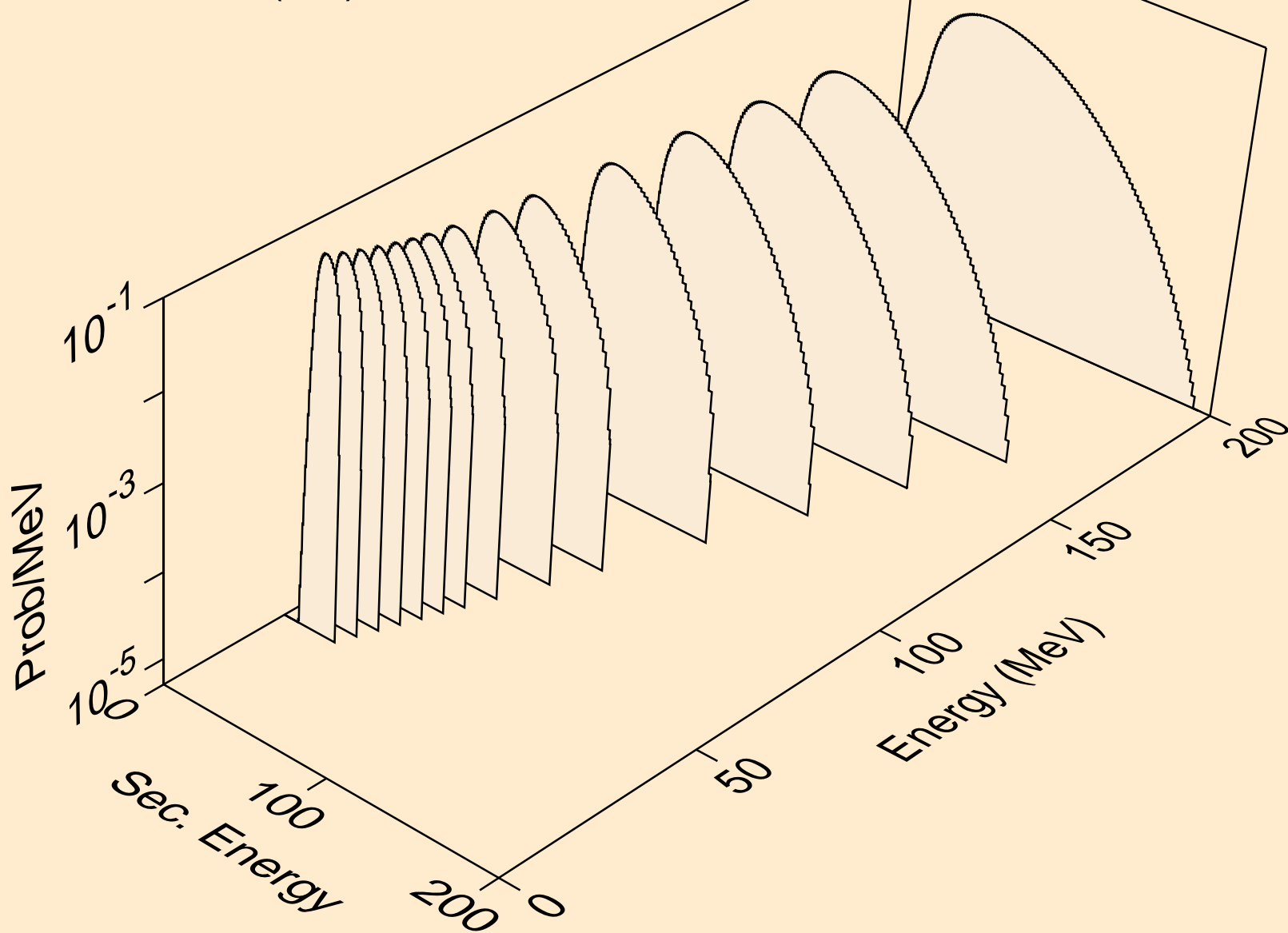
CS117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
tritons from (n,t2a)



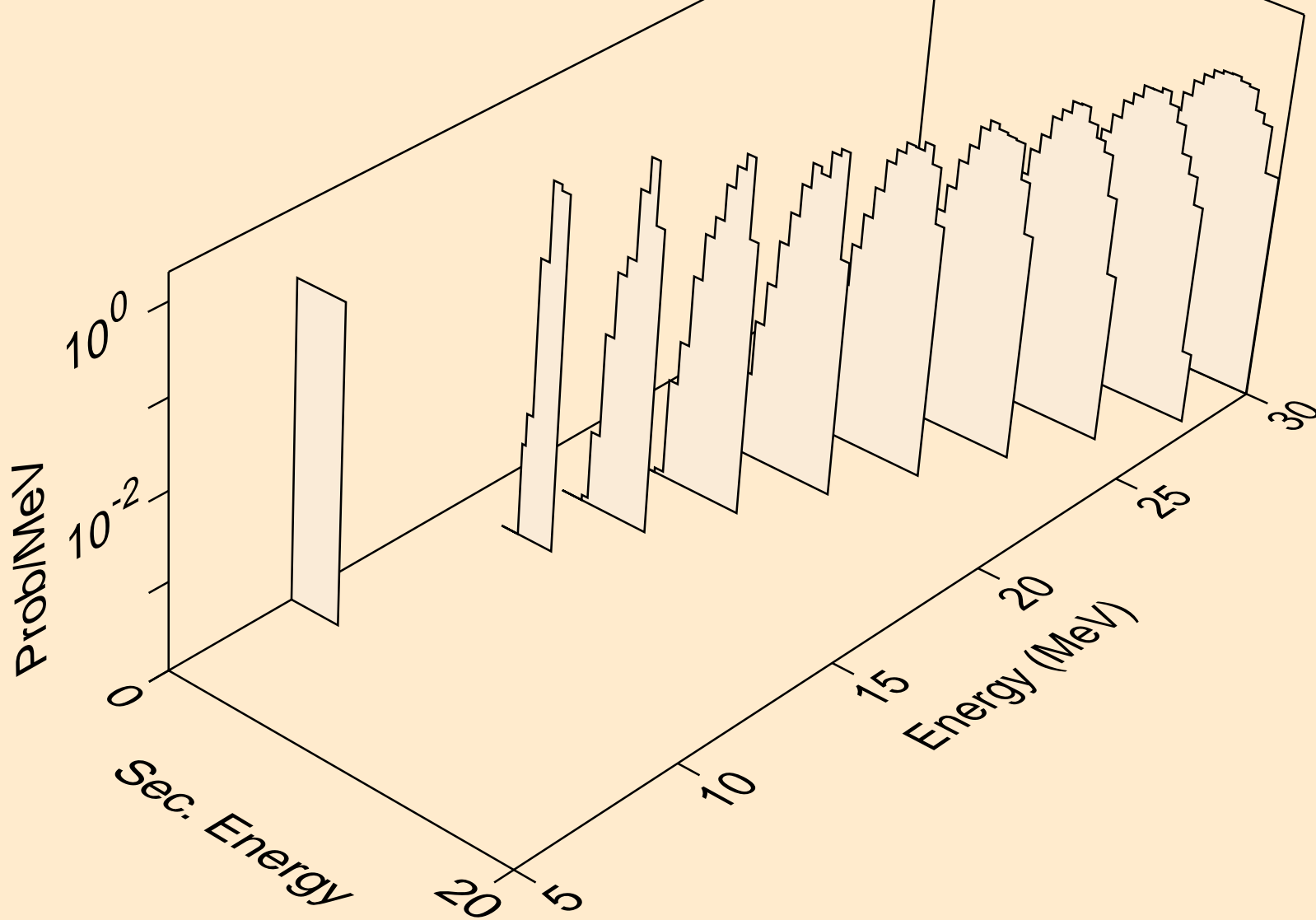
CS117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
tritons from (n,pt)



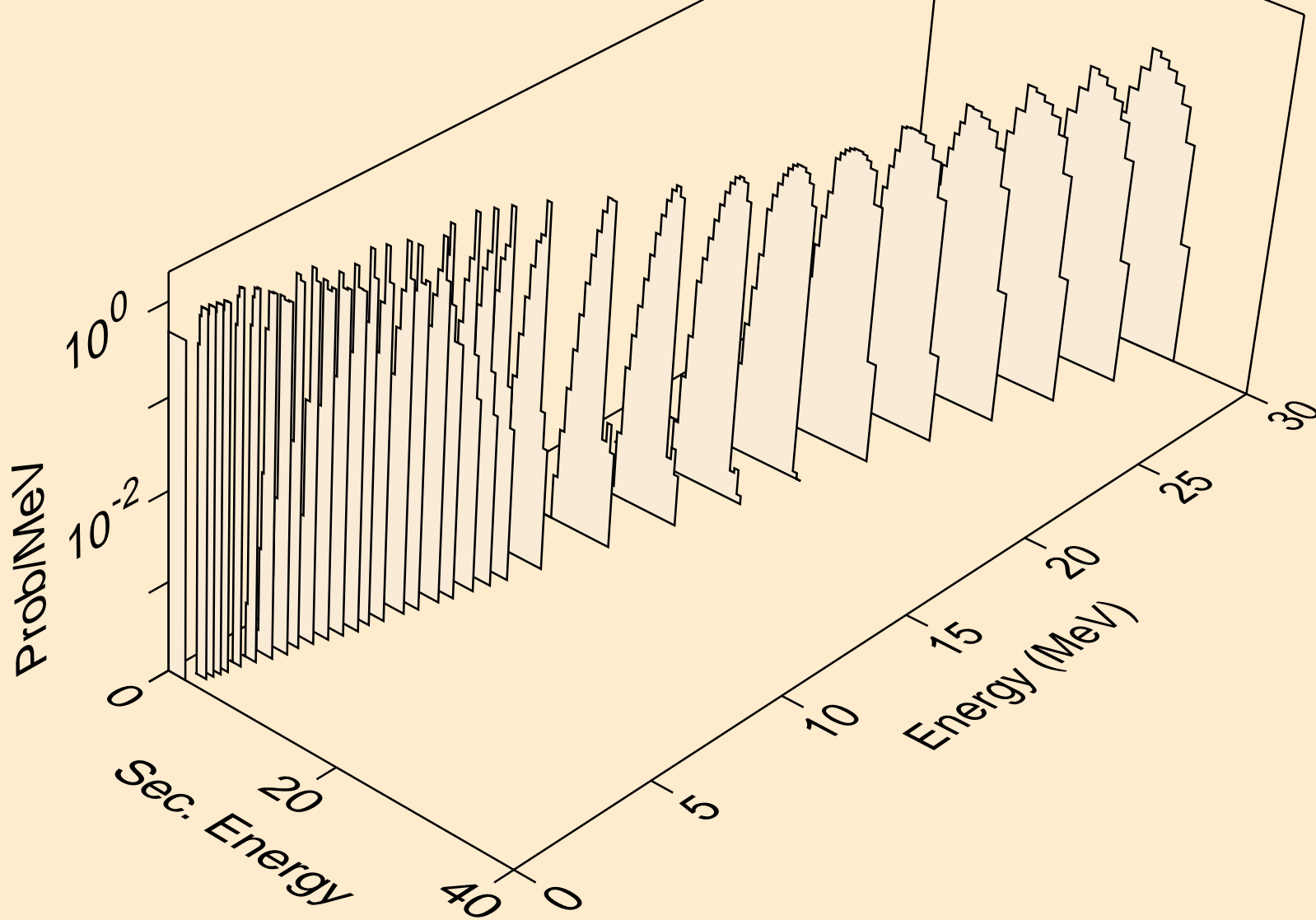
CS117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
he3s from (n,x)



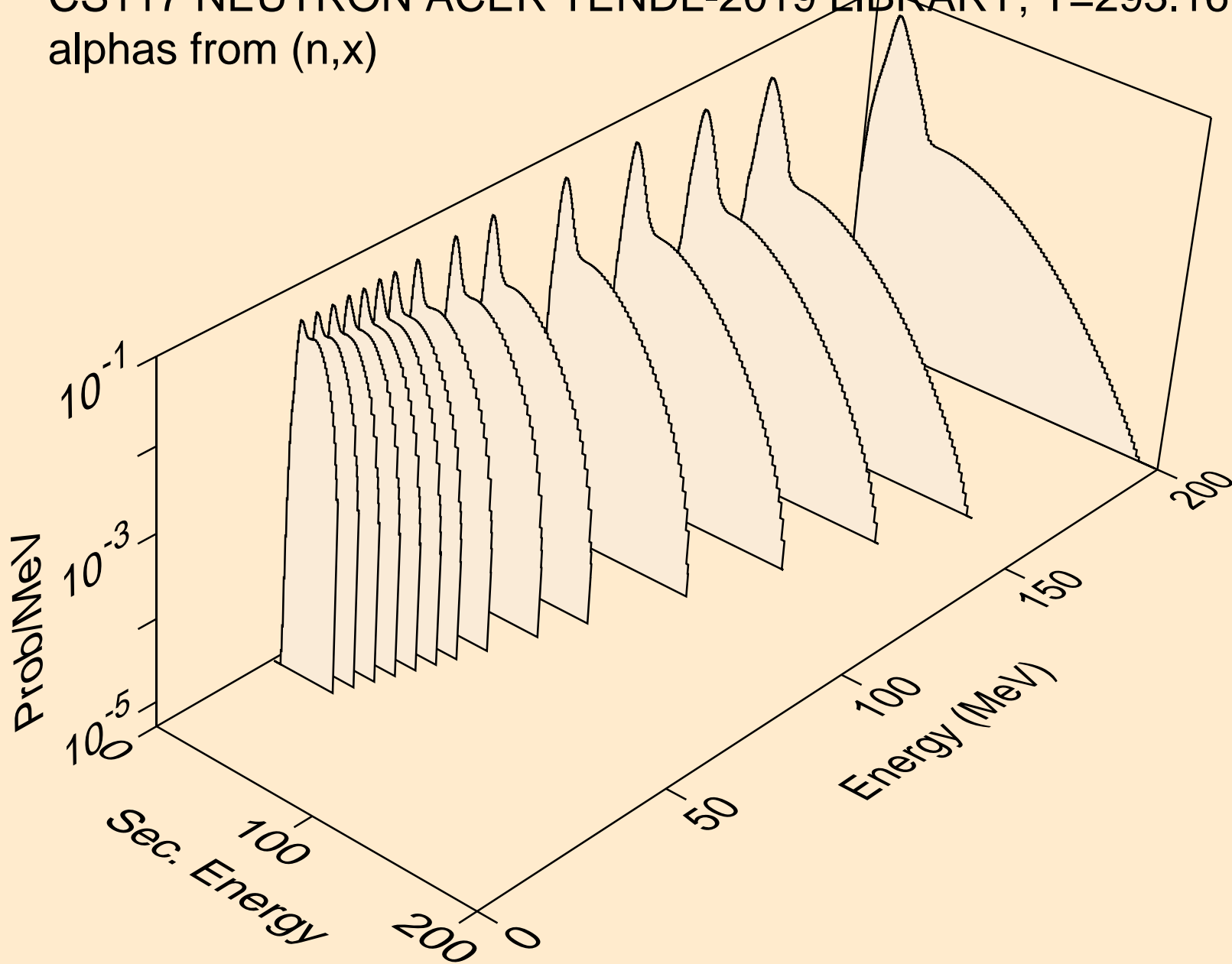
CS117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
he3s from (n,n\*)he3



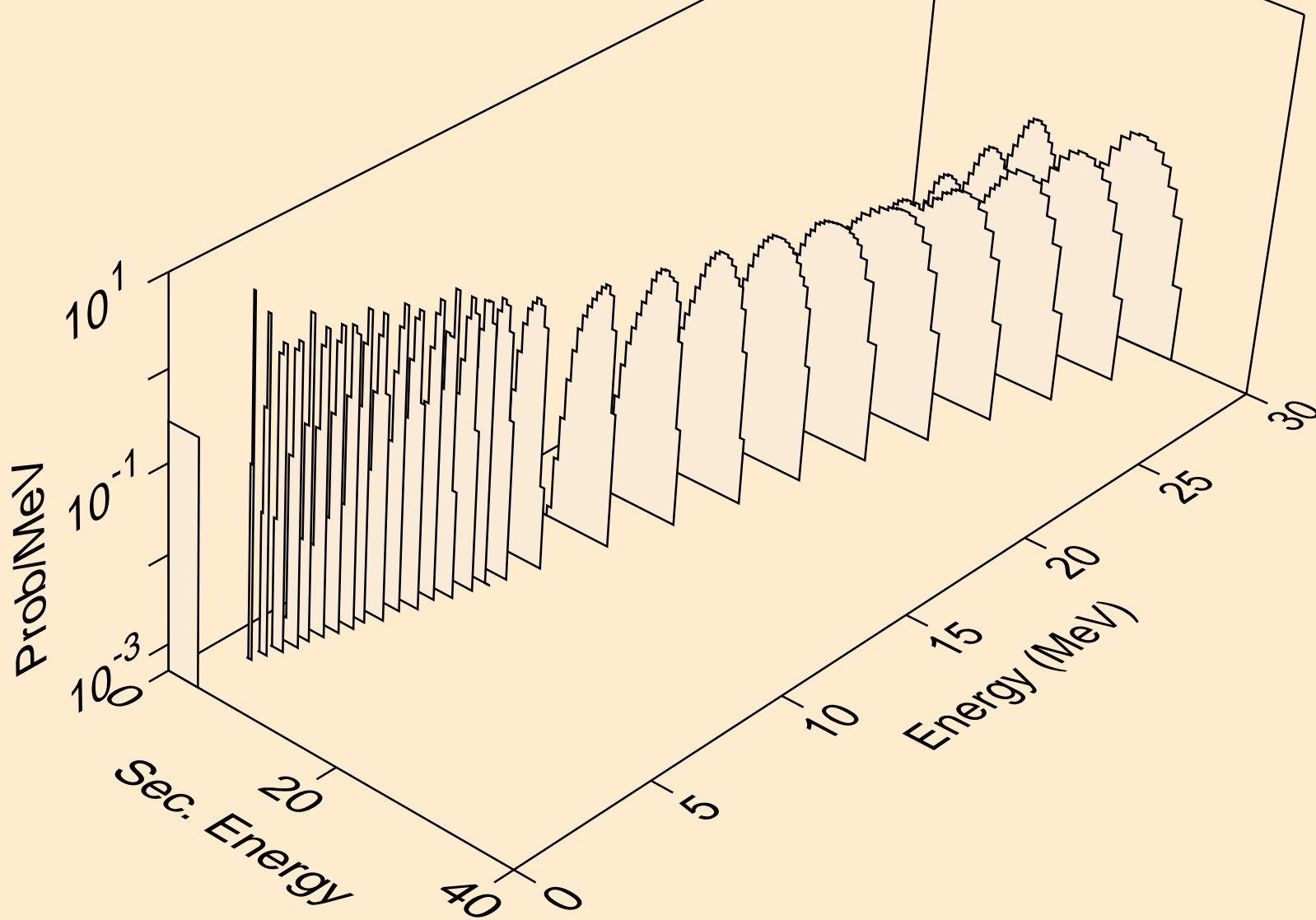
CS117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
he3s from (n,he3)



CS117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
alphas from (n,x)

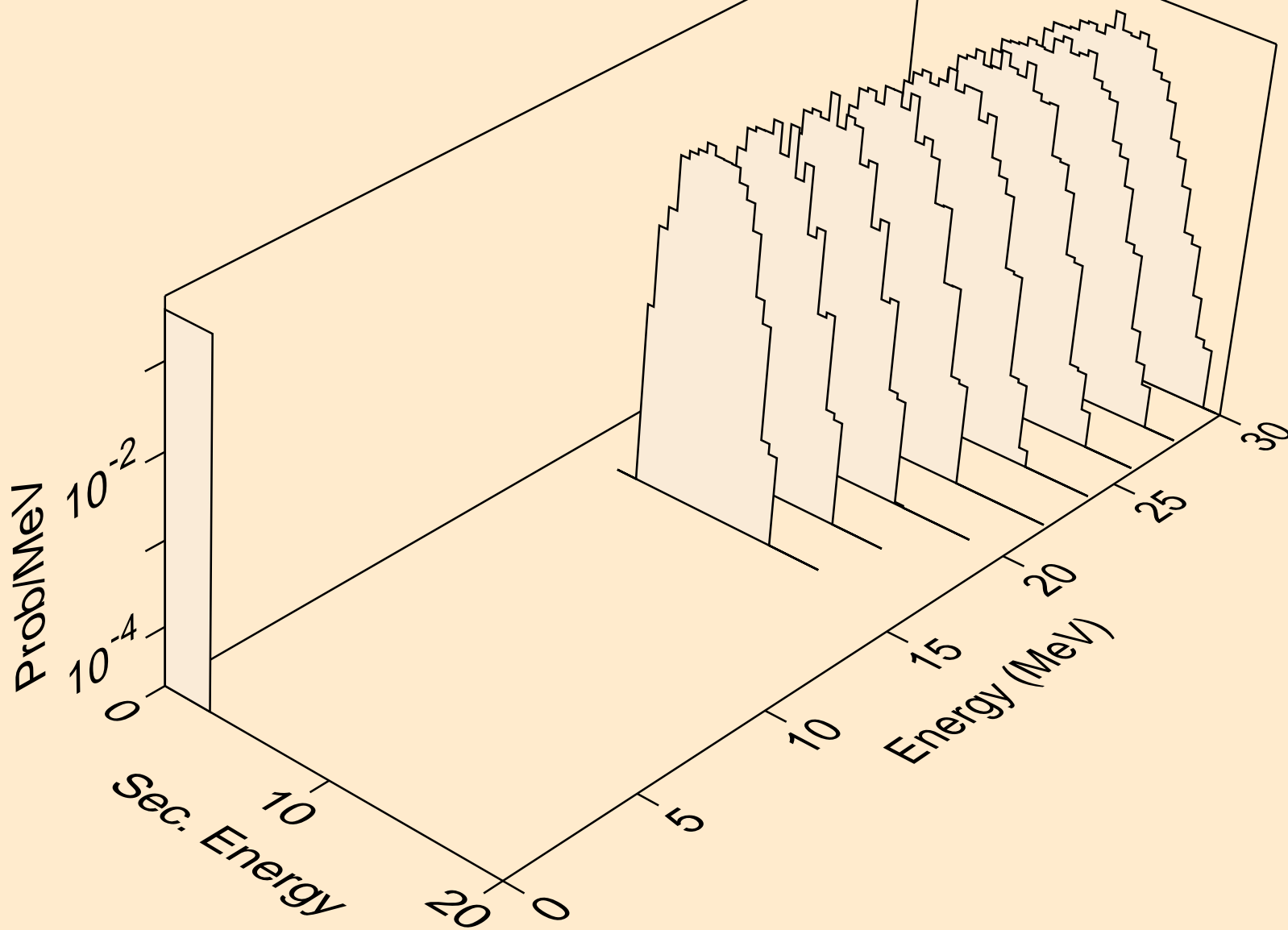


CS117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
alphas from (n,n\*)a

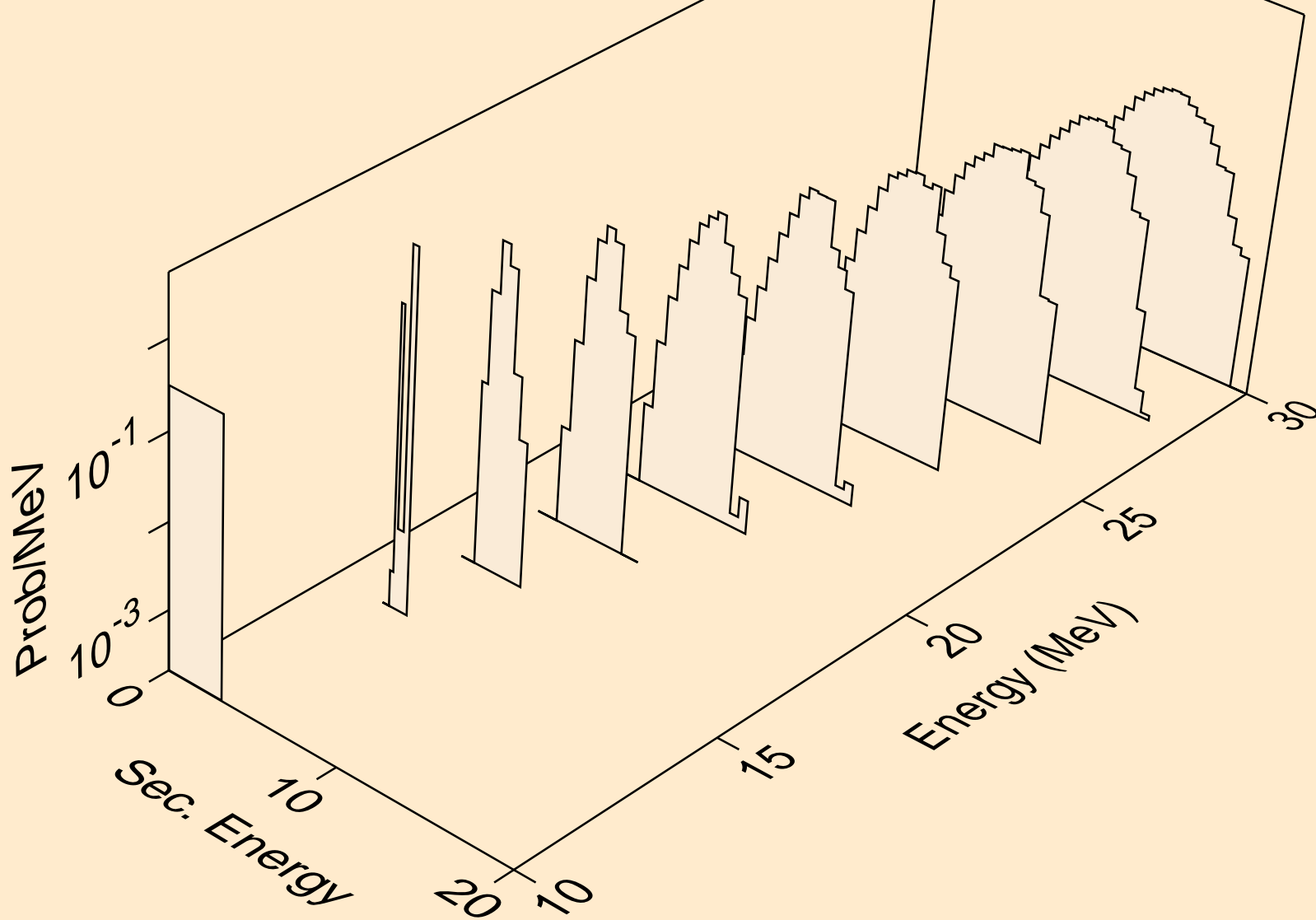




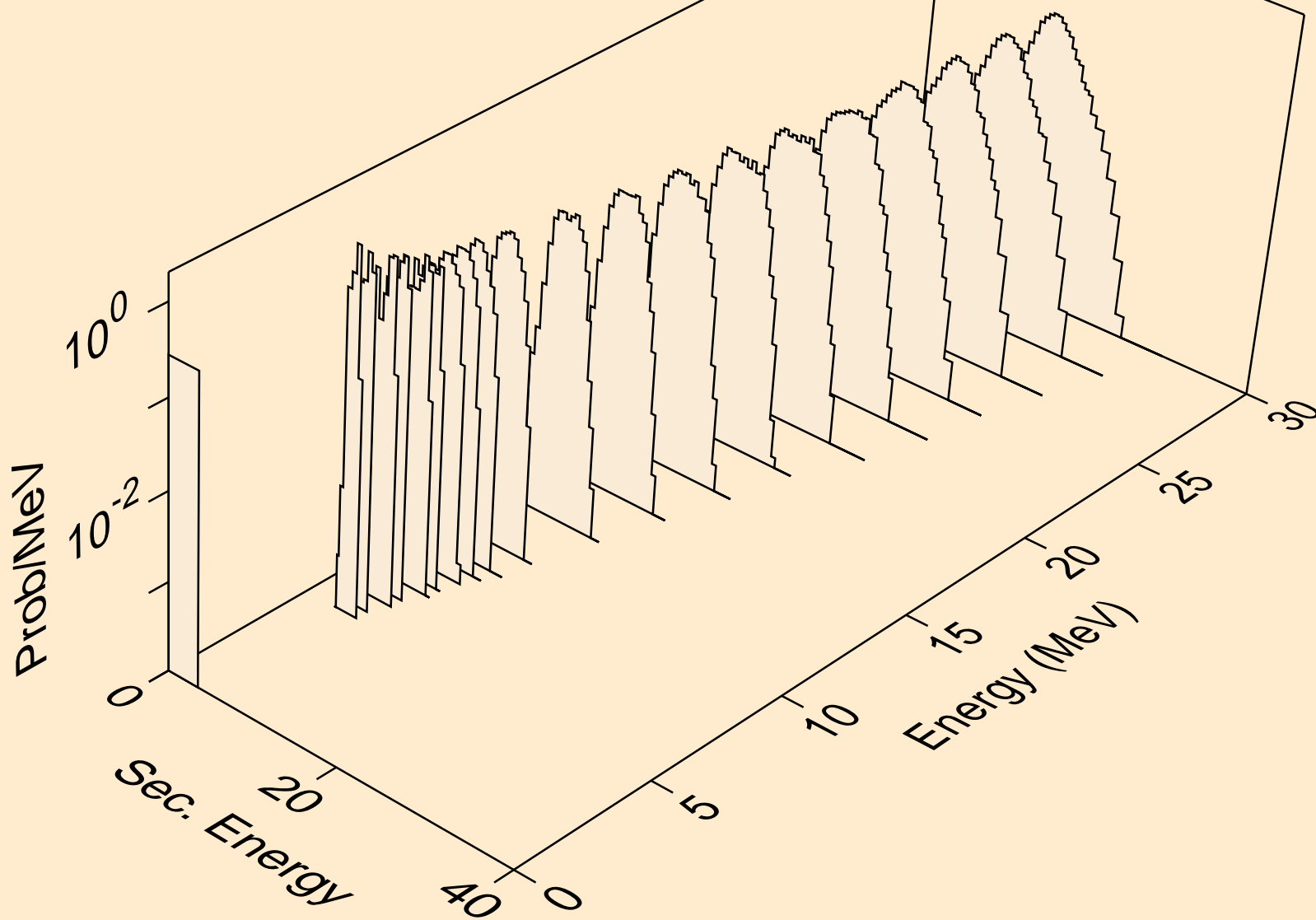
CS117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
alphas from (n,n\*)3a



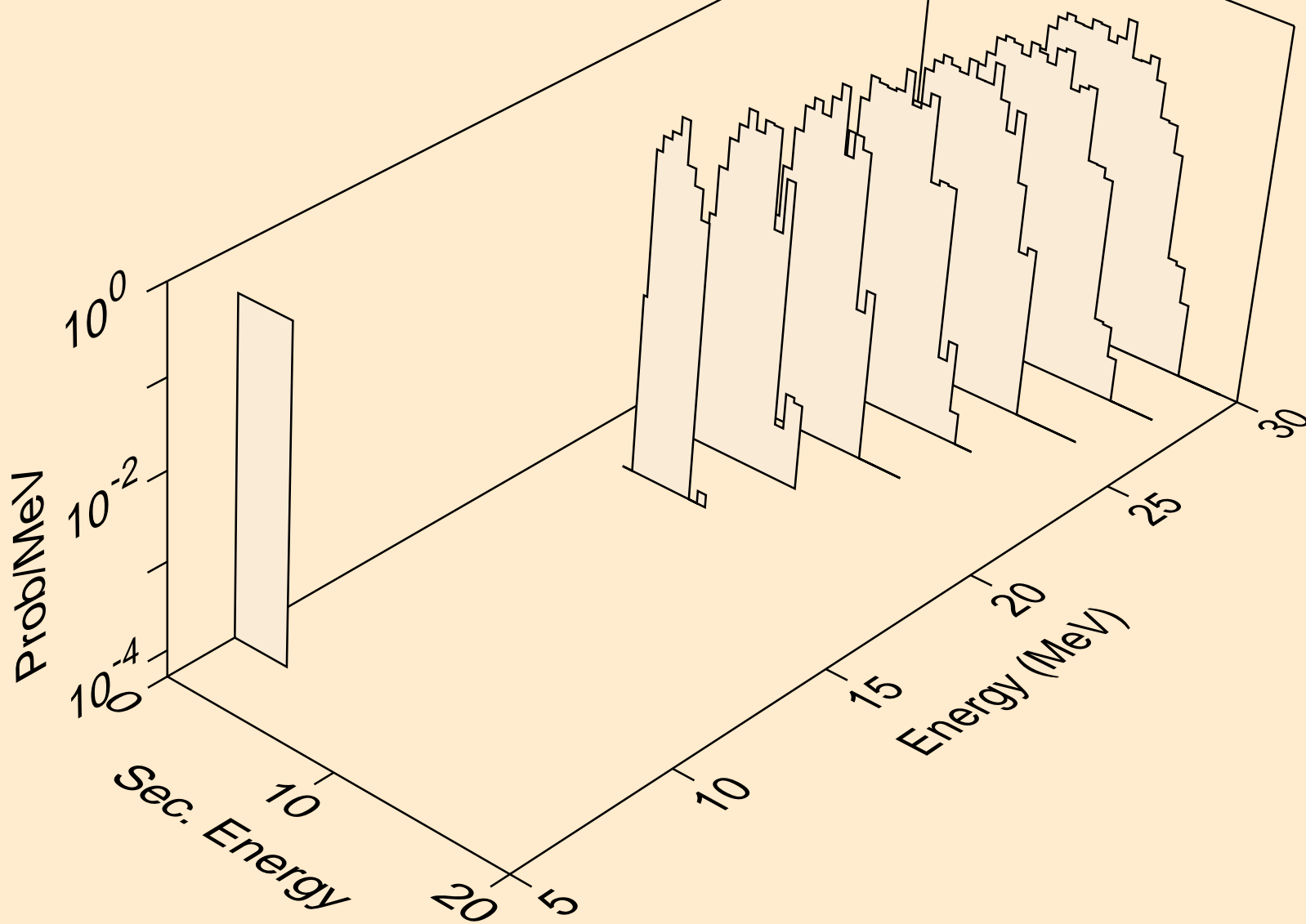
CS117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
alphas from (n,2n)a



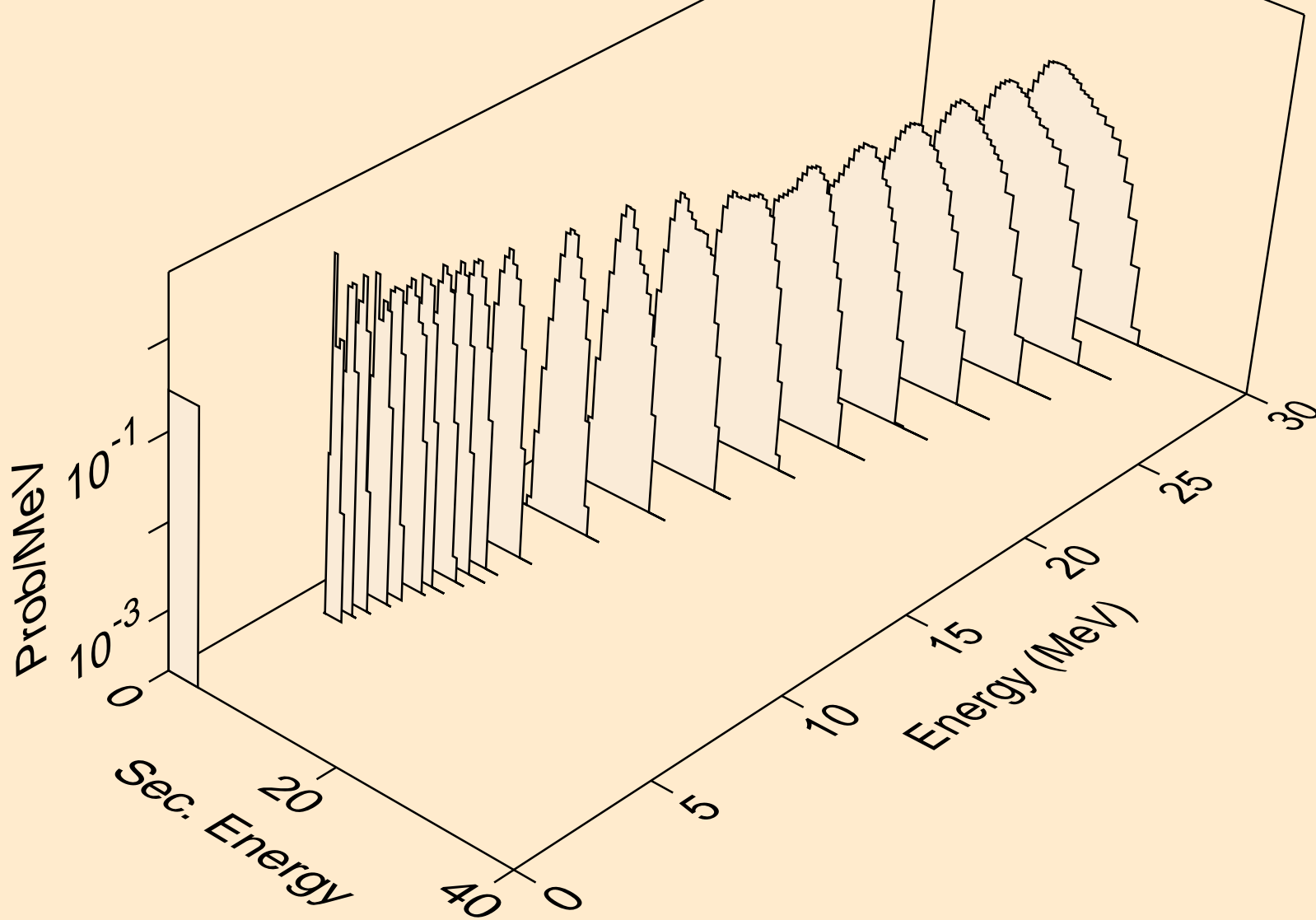
CS117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
alphas from (n,n\*)2a



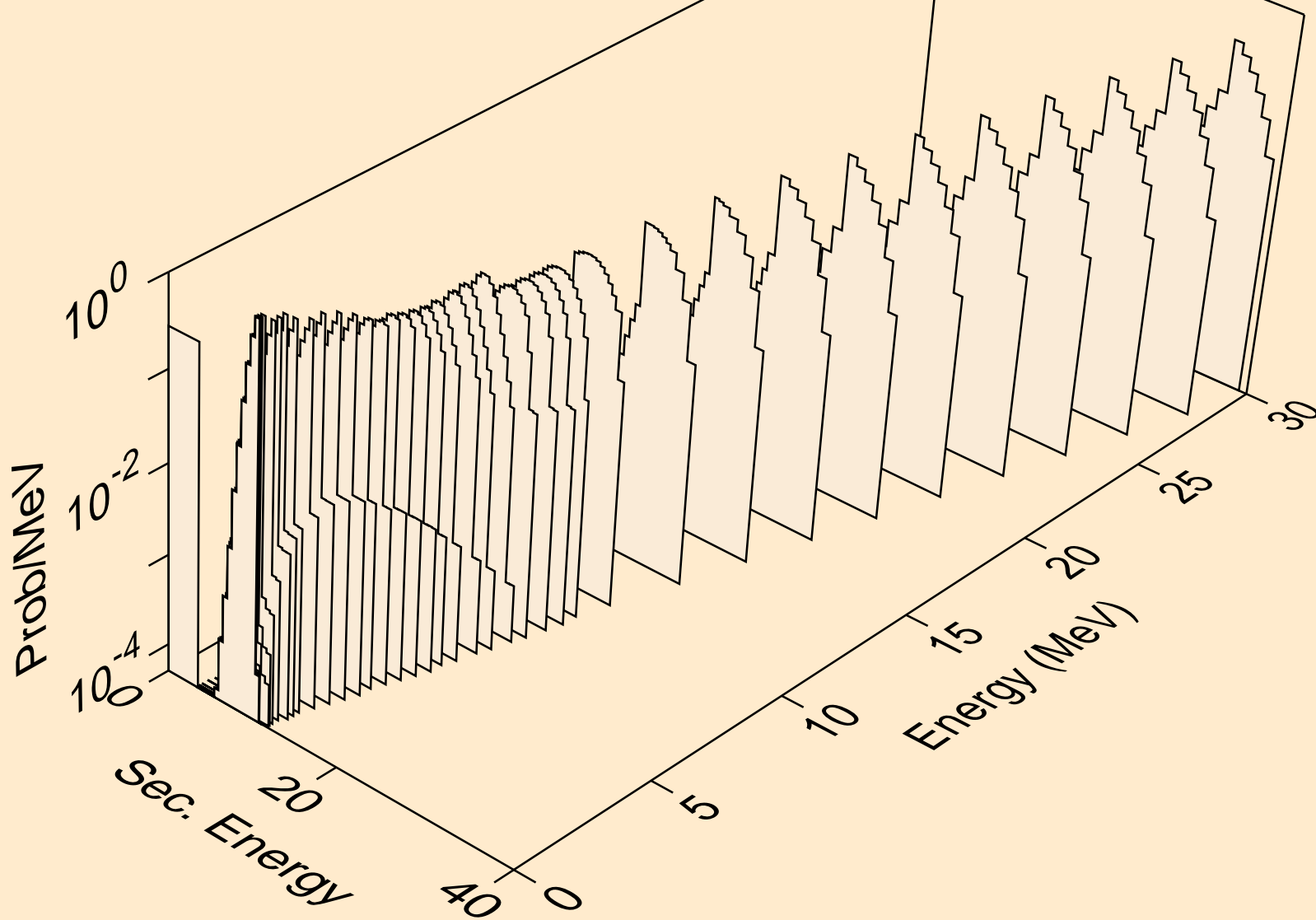
CS117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
alphas from (n,2n)2a



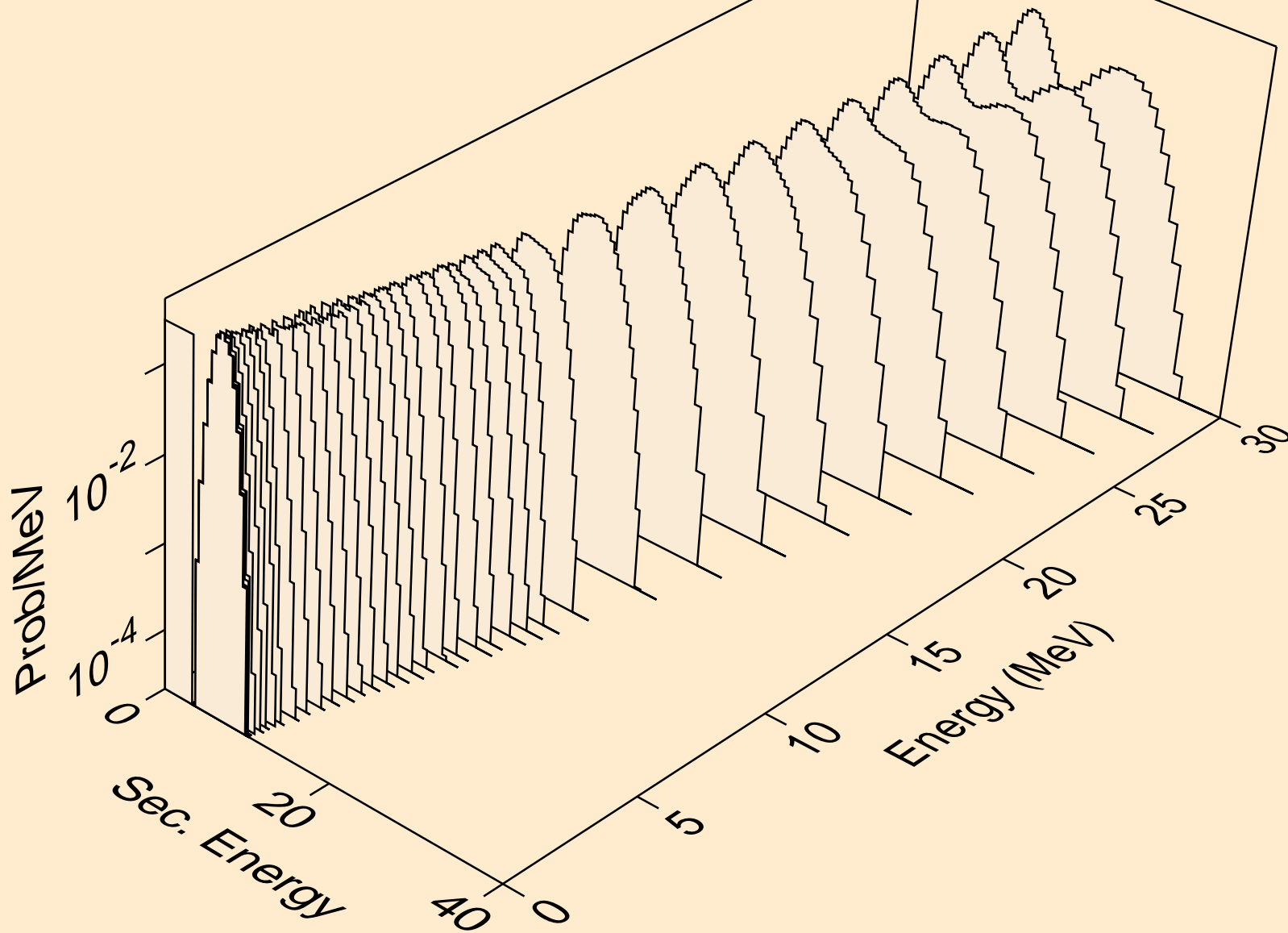
CS117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
alphas from (n,npa)



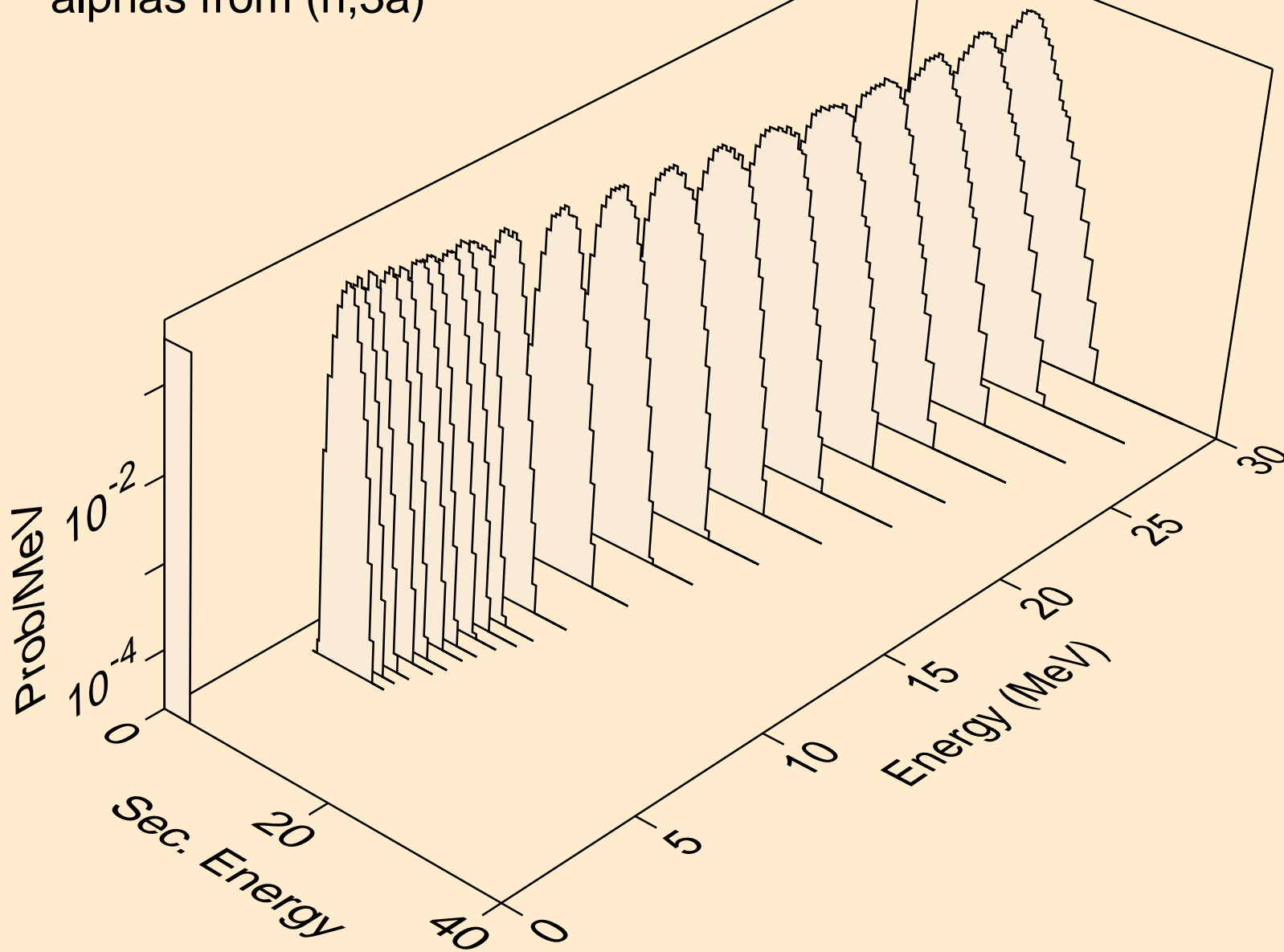
CS117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
alphas from (n,a)



CS117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
alphas from (n,2a)

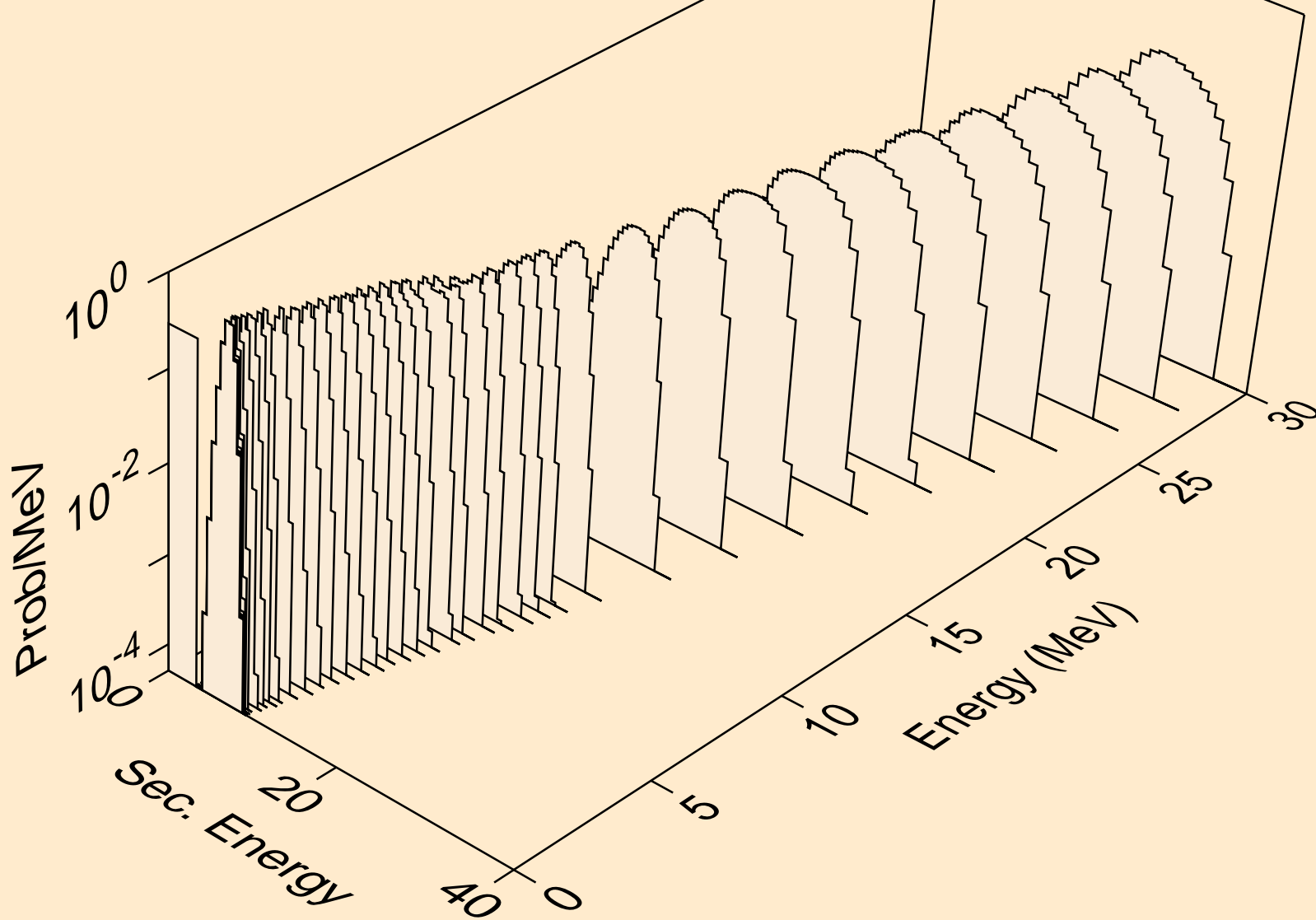


CS117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
alphas from (n,3a)

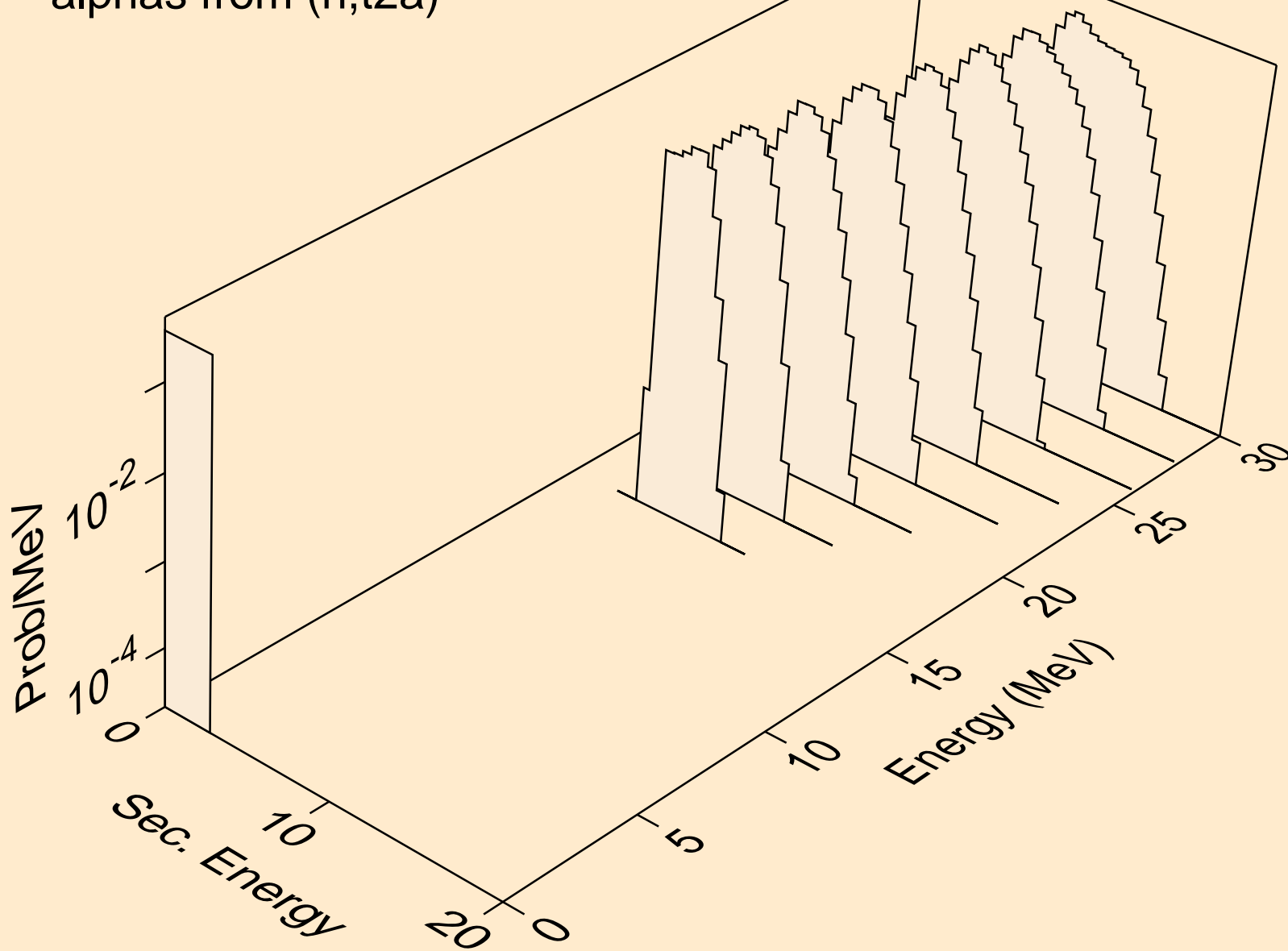




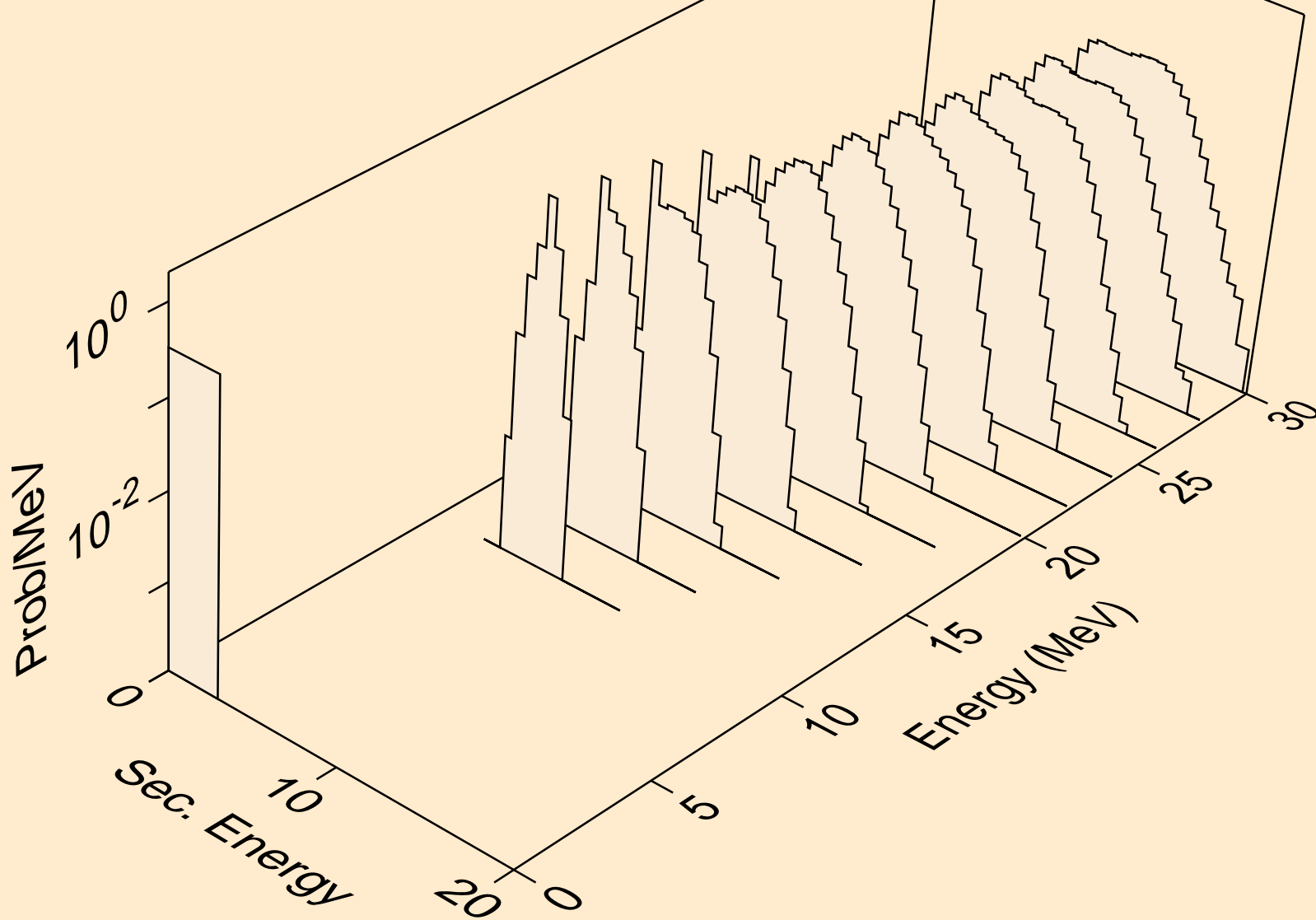
CS117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
alphas from (n,p)



CS117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
alphas from (n,t2a)



CS117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
alphas from (n,d2a)



CS117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
alphas from (n,da)

