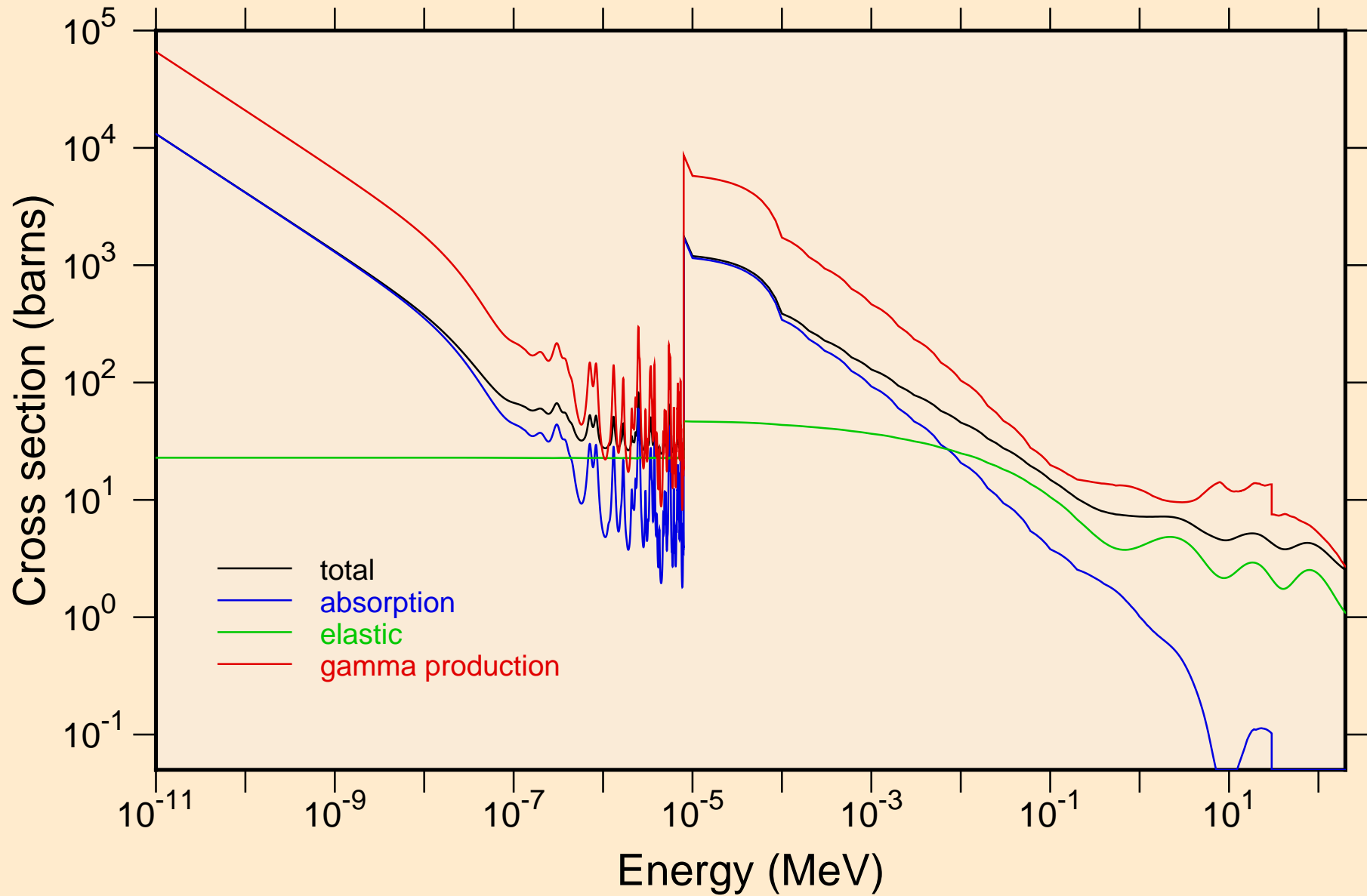
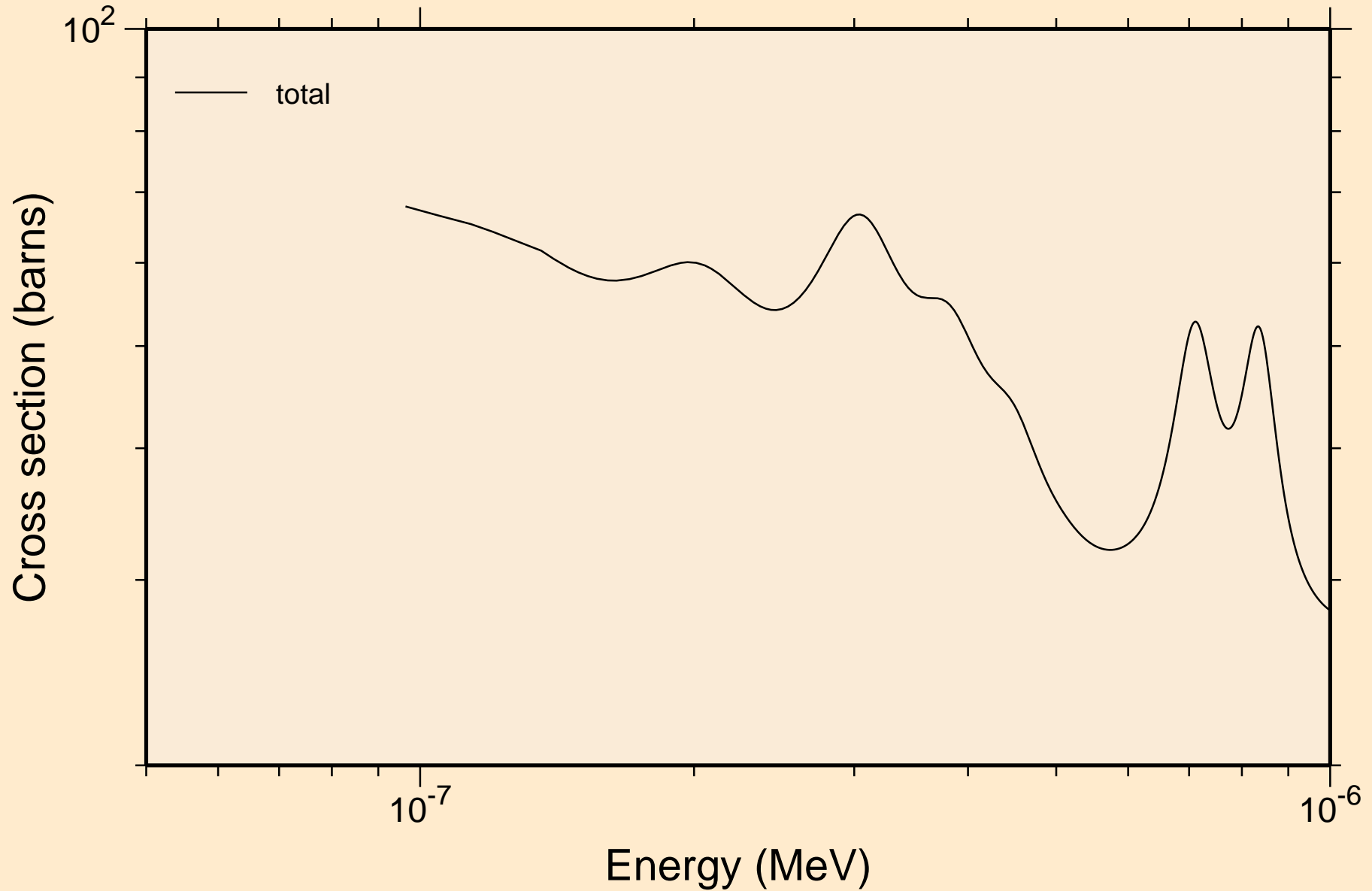


# YB163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

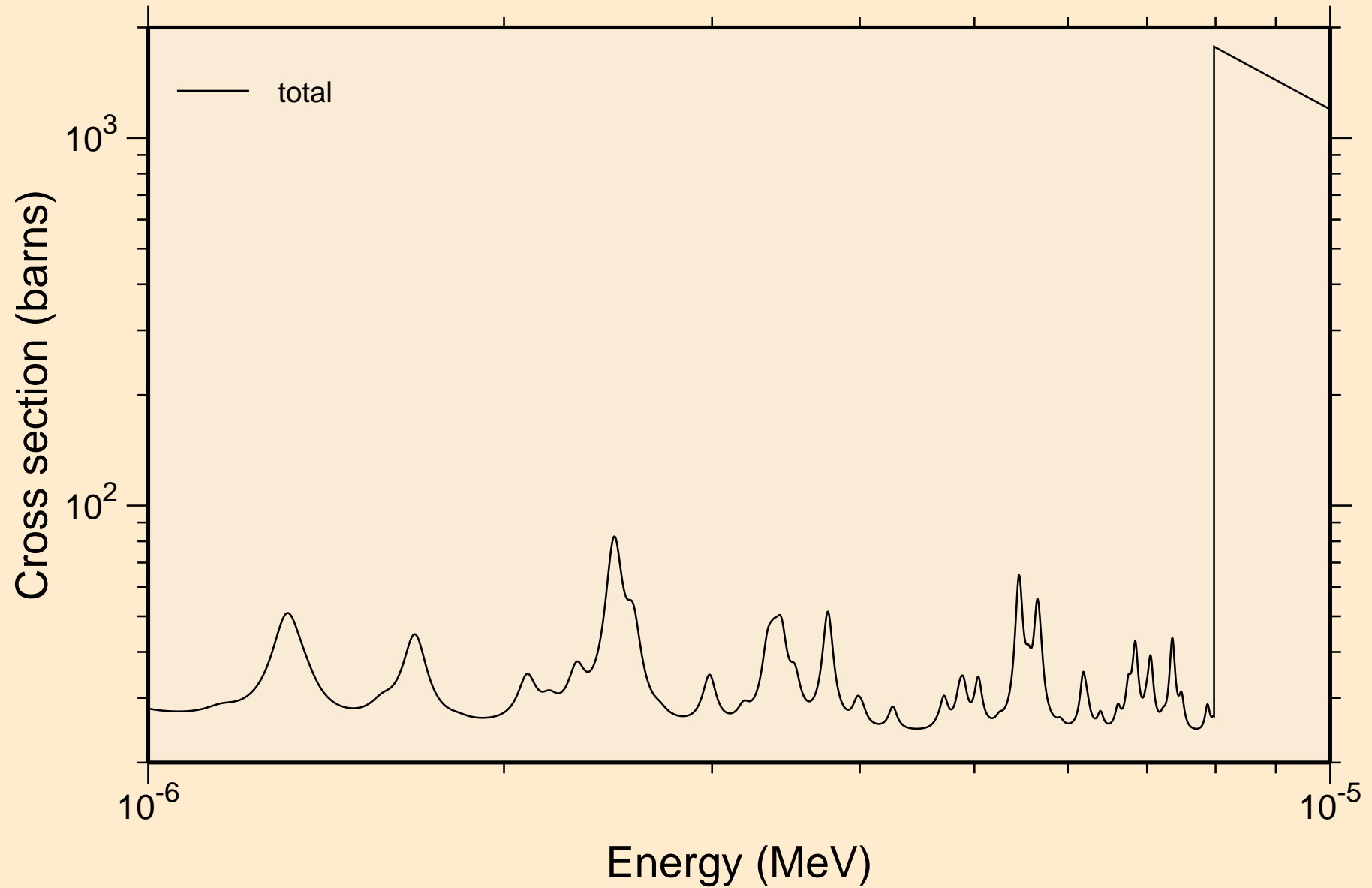
## Principal cross sections



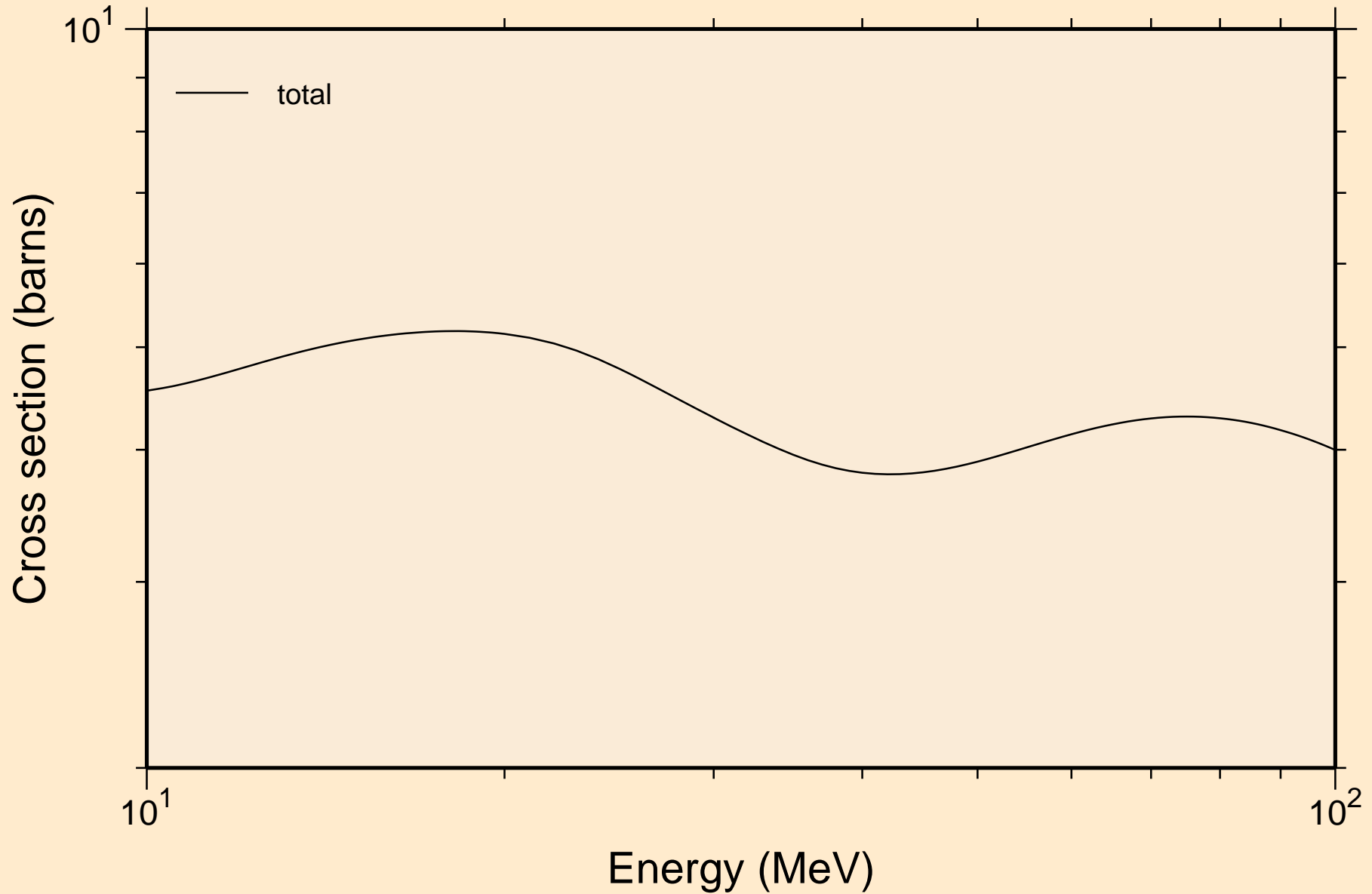
YB163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
resonance total cross section



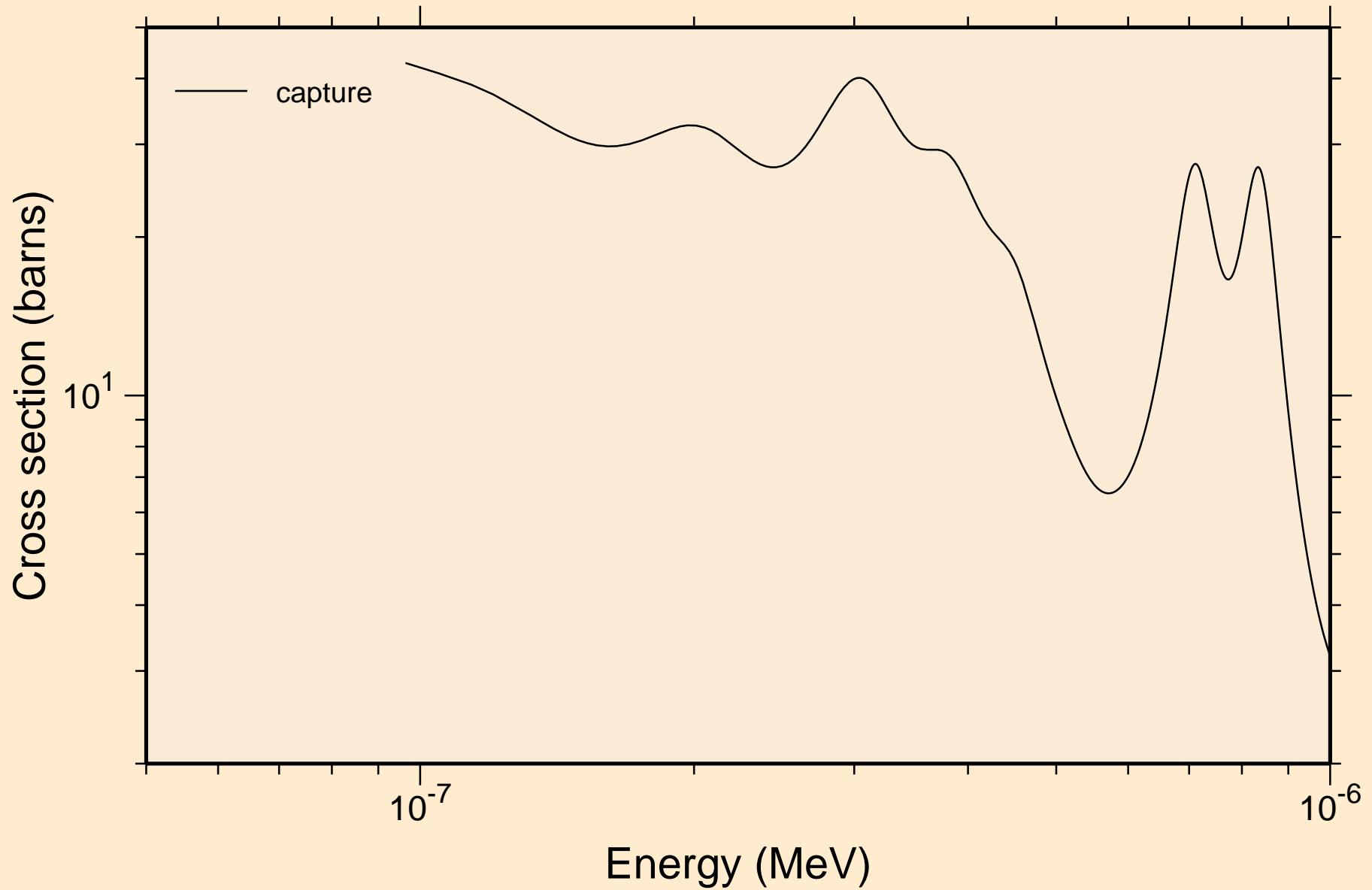
YB163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
resonance total cross section



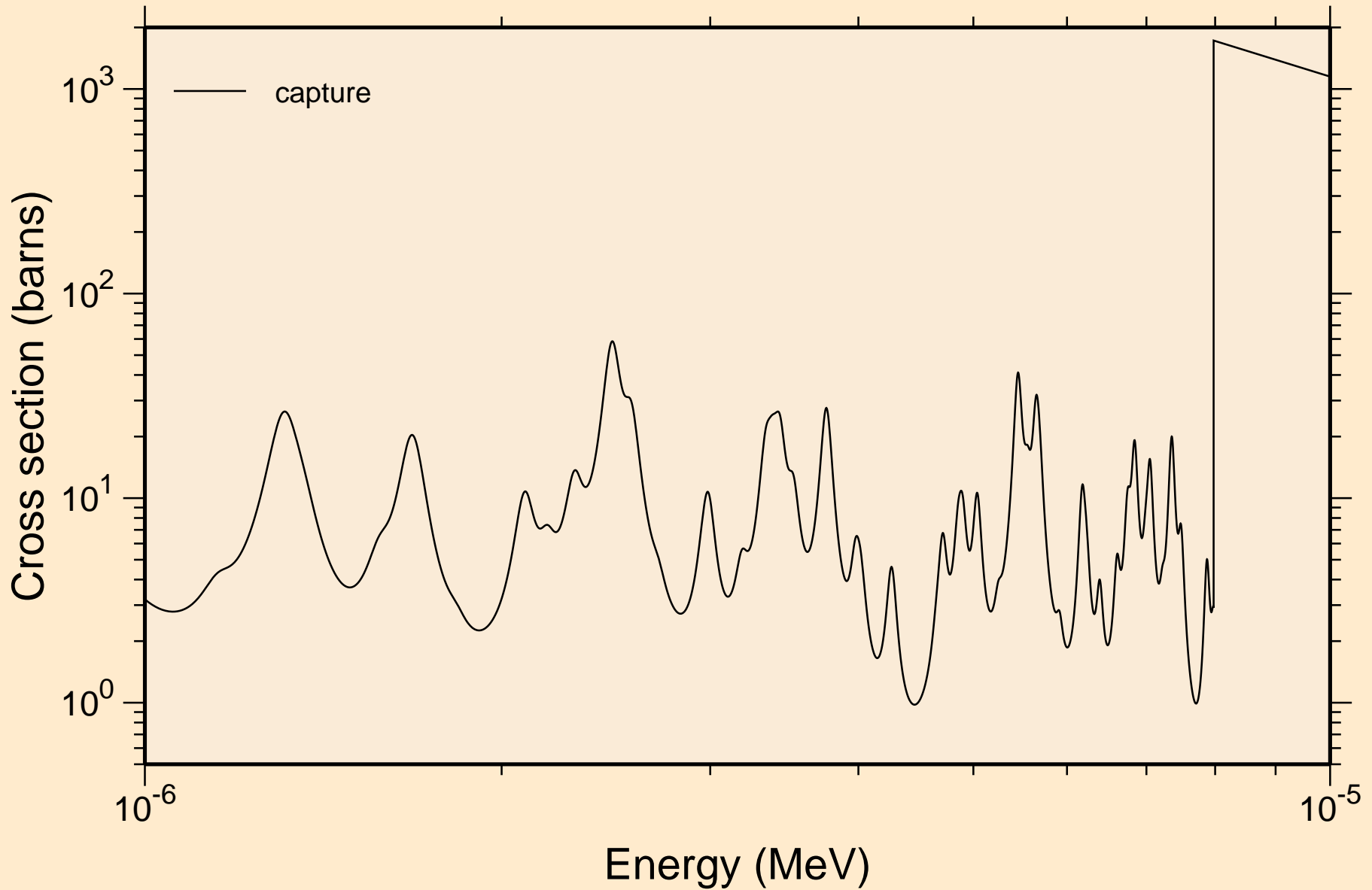
YB163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
resonance total cross section



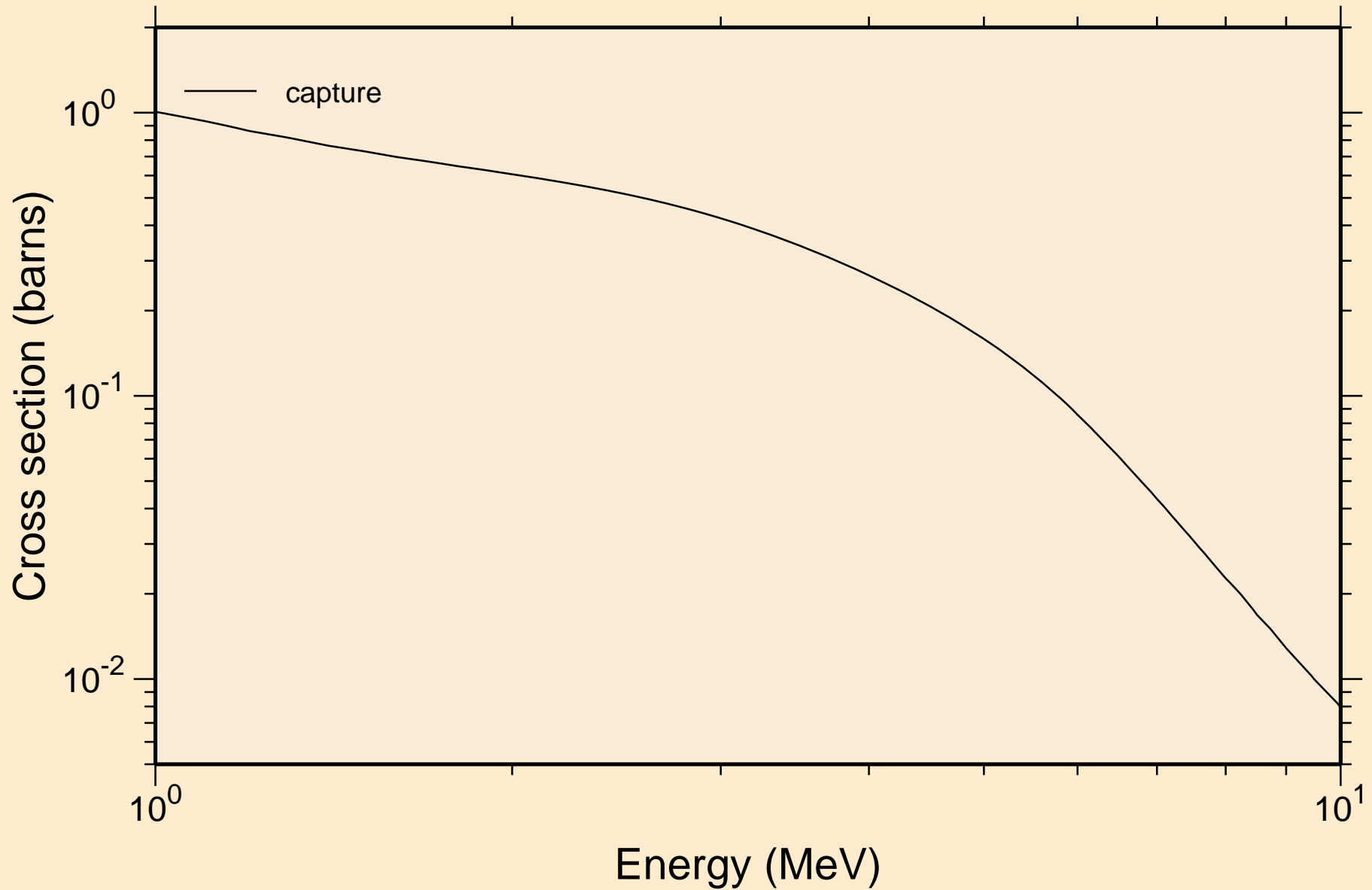
YB163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
resonance absorption cross sections



YB163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
resonance absorption cross sections

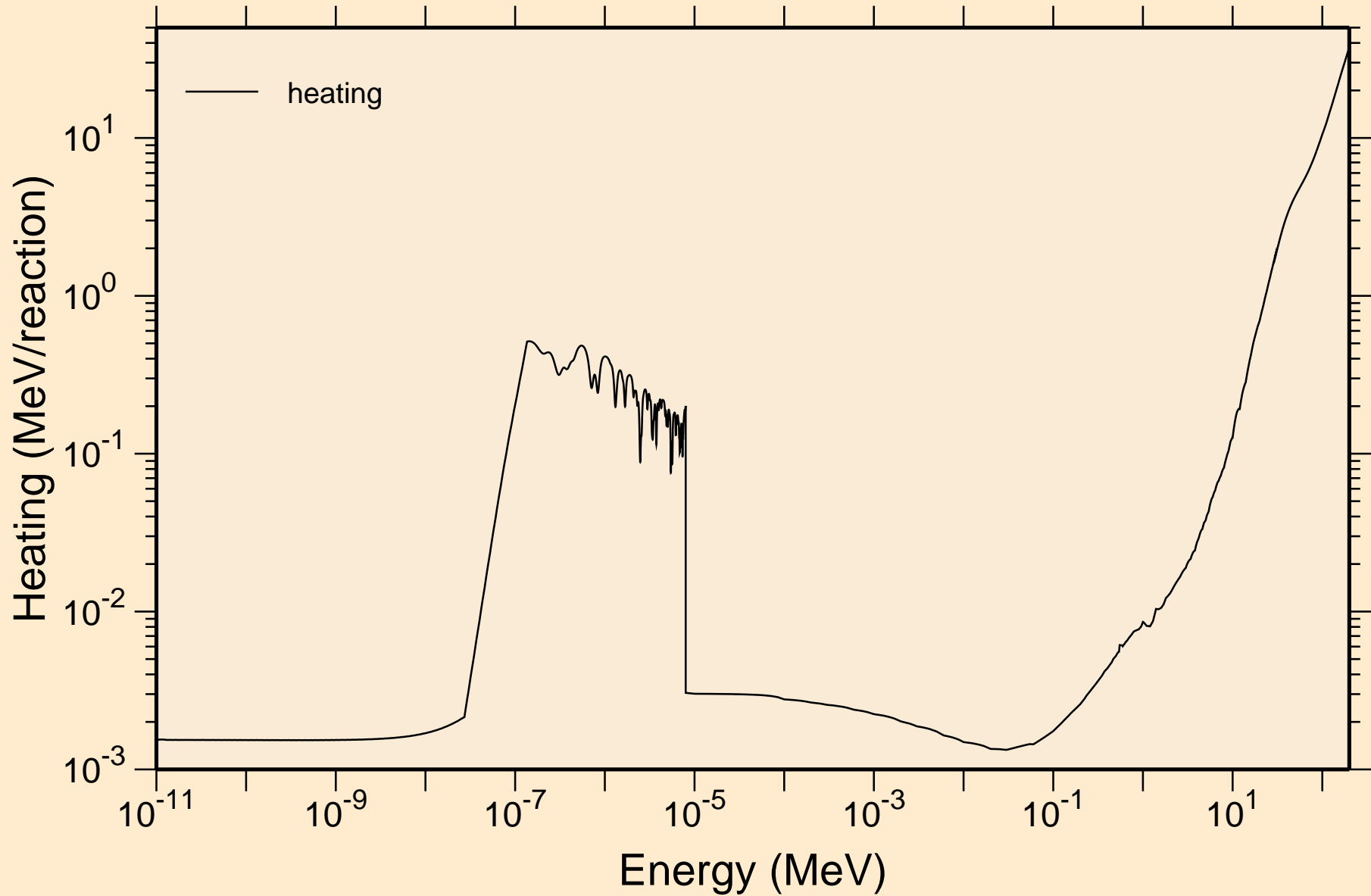


YB163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
resonance absorption cross sections



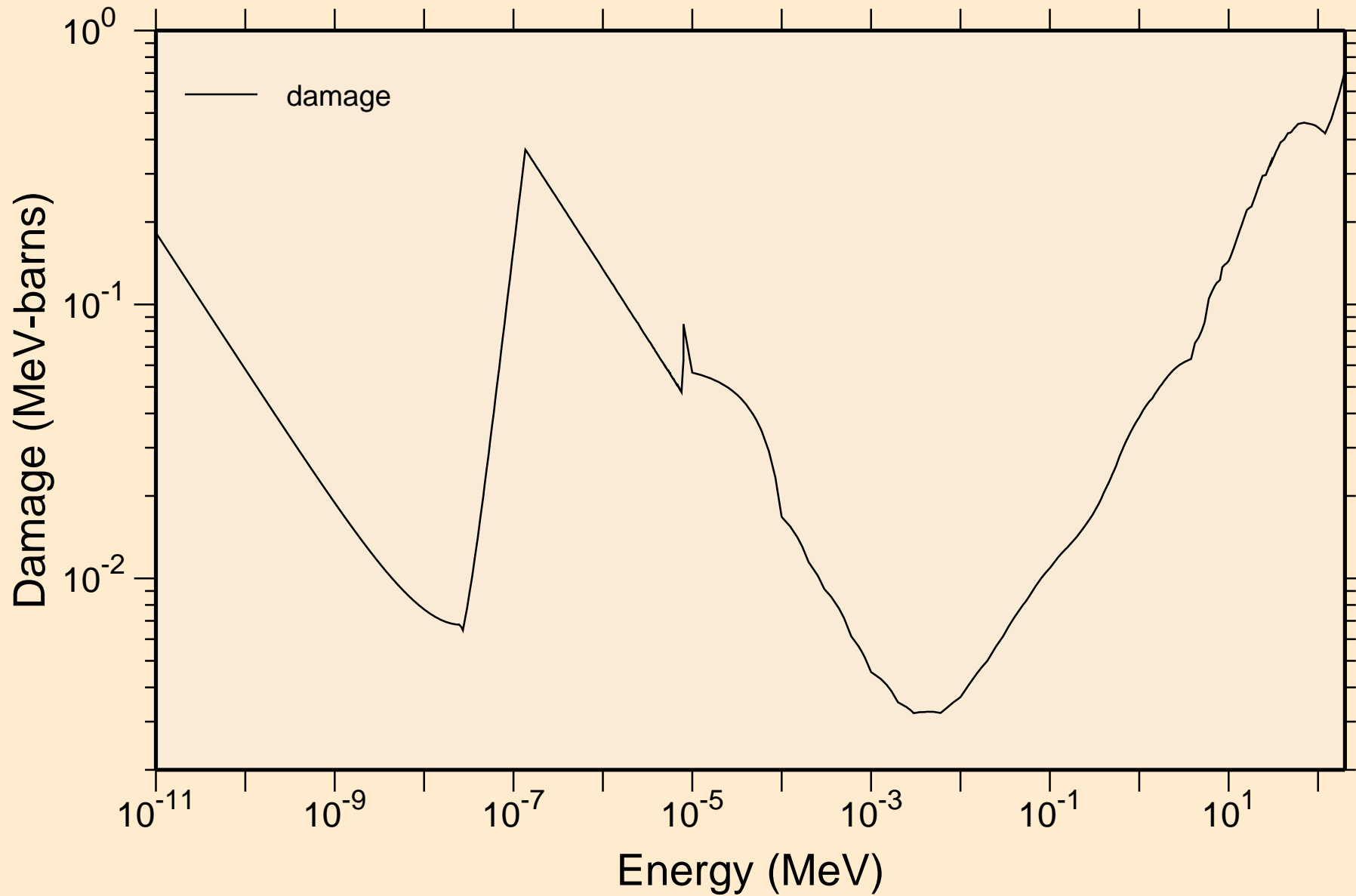
# YB163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

## Heating

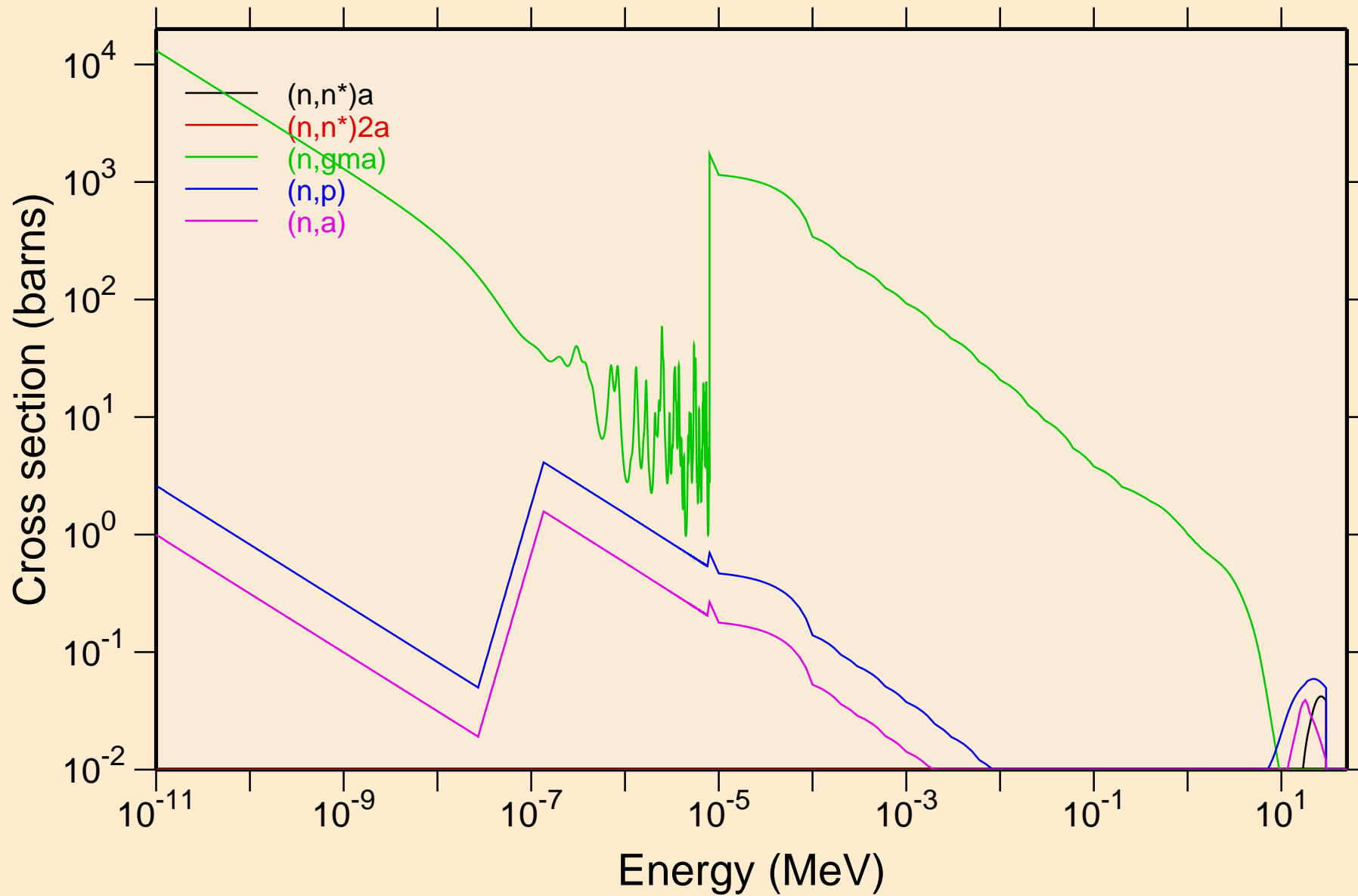




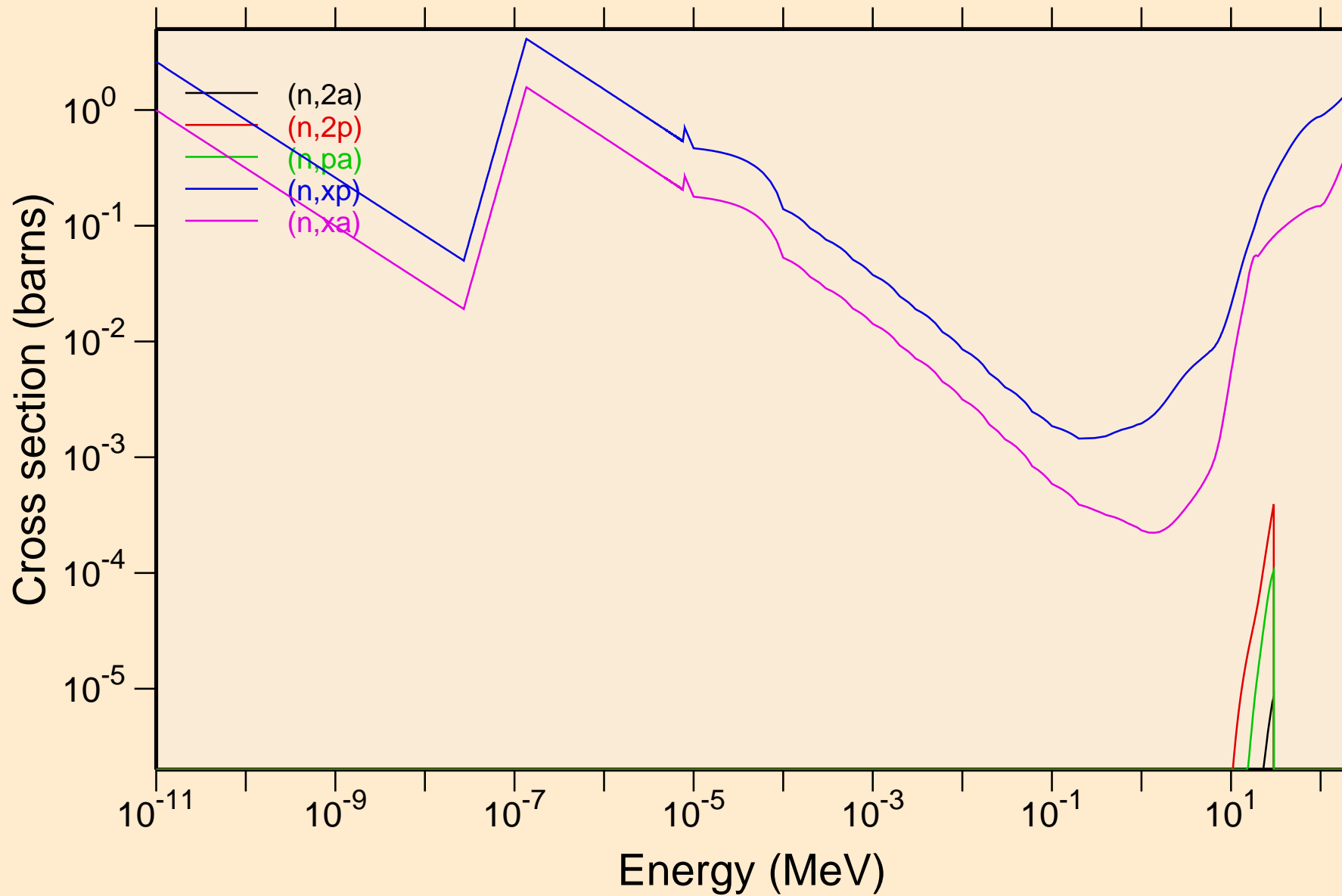
YB163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Damage



YB163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Non-threshold reactions

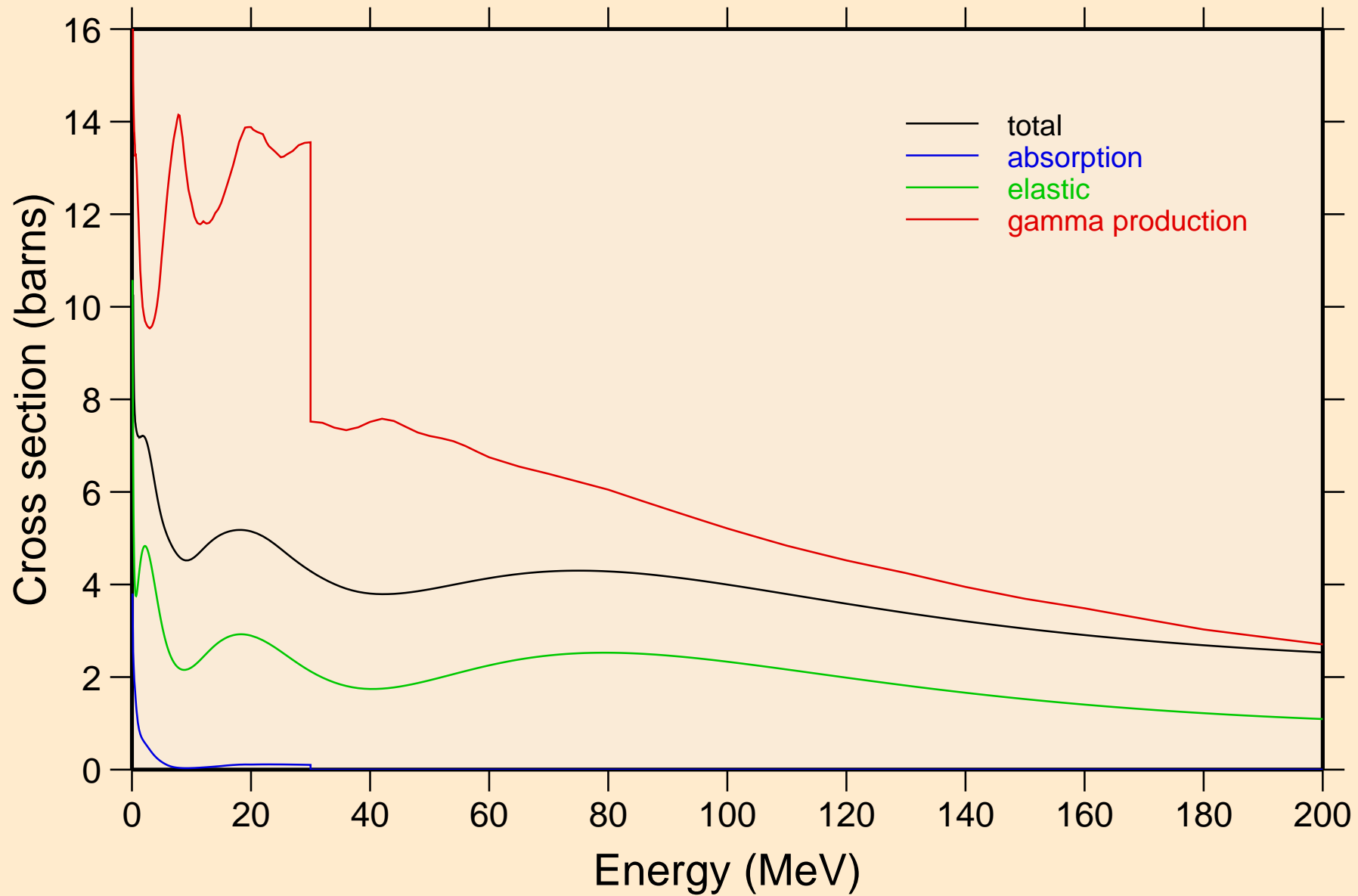


YB163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Non-threshold reactions



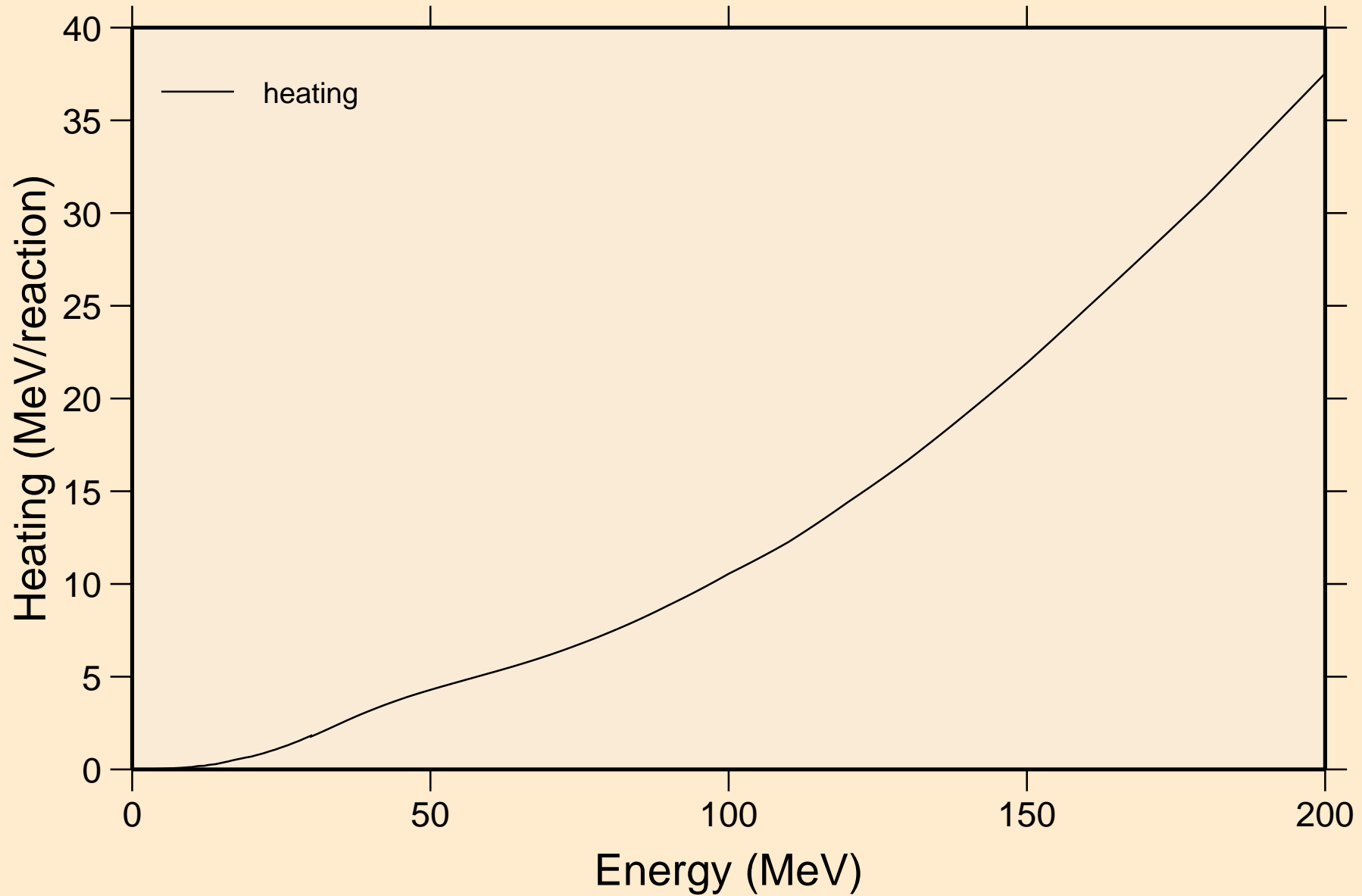
# YB163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

## Principal cross sections



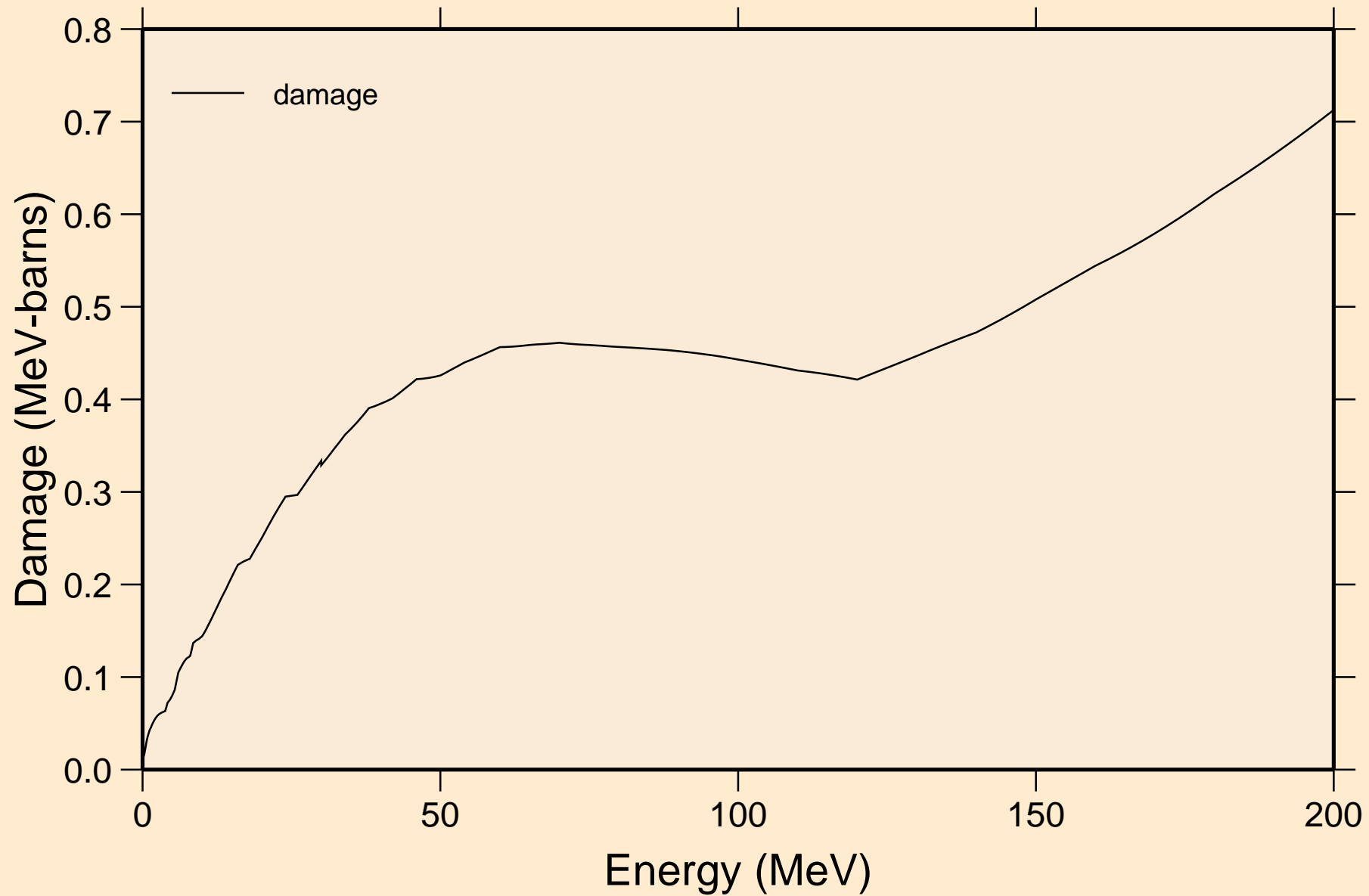
# YB163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

## Heating

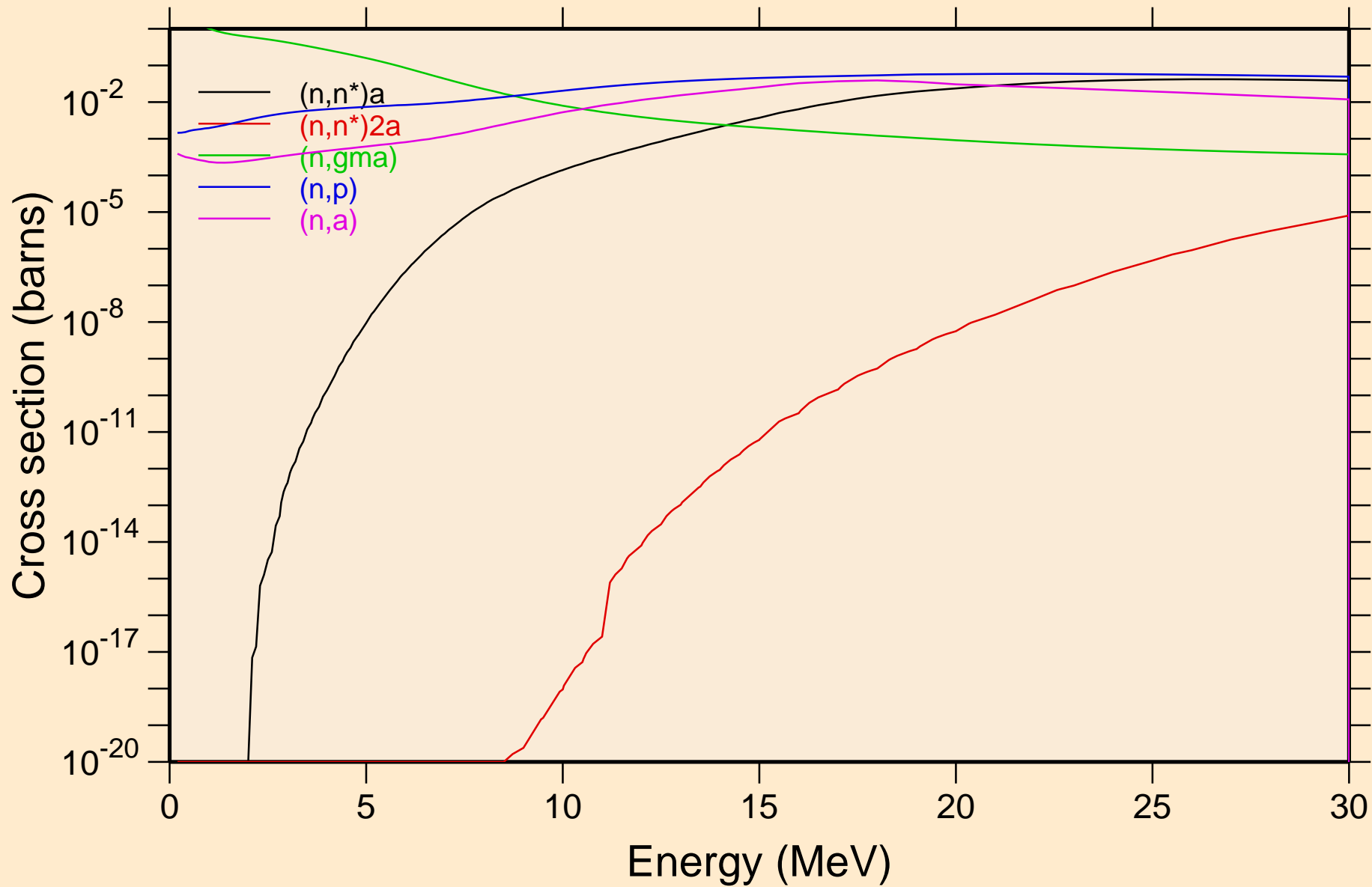


# YB163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

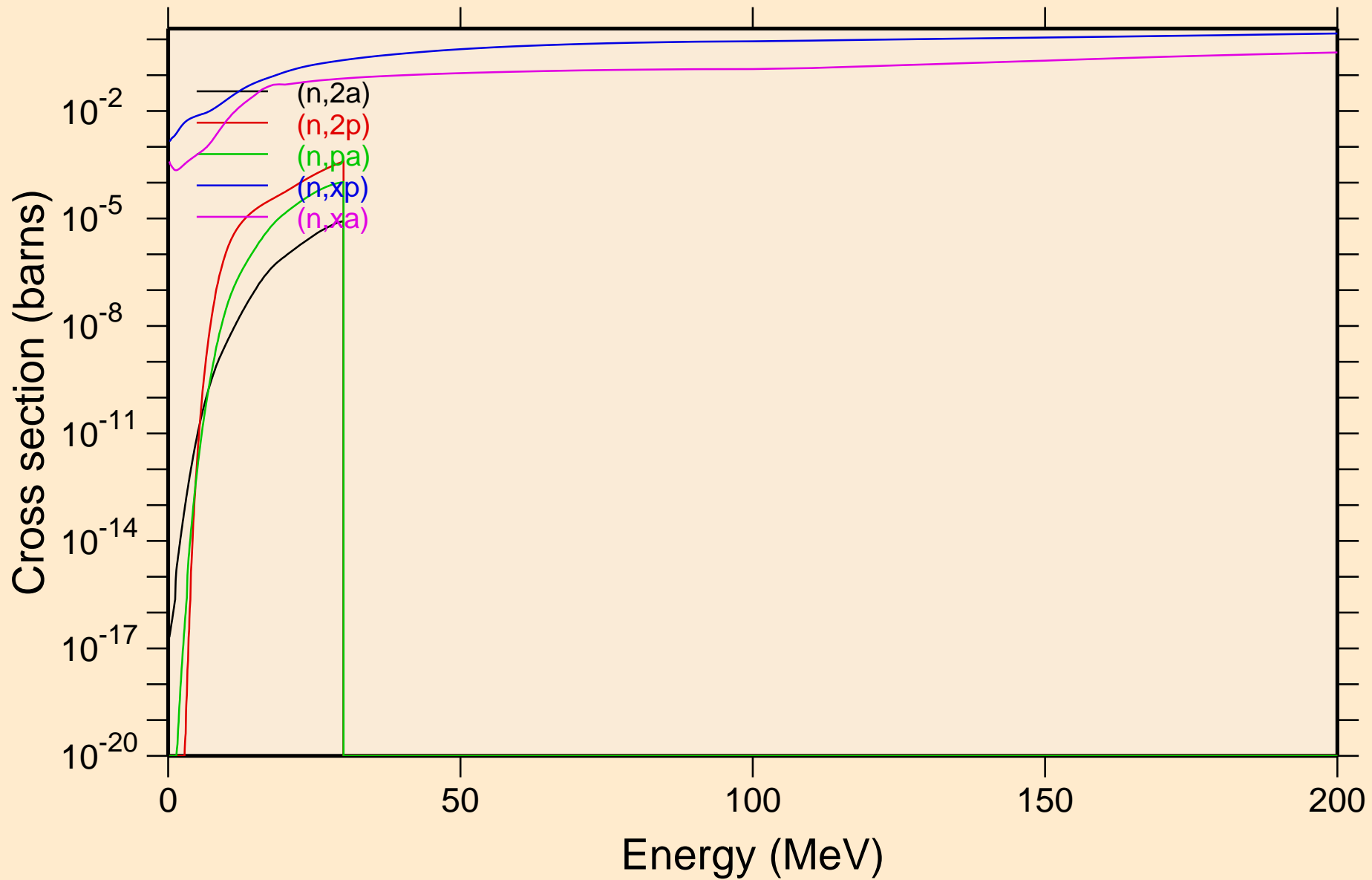
## Damage



YB163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Non-threshold reactions

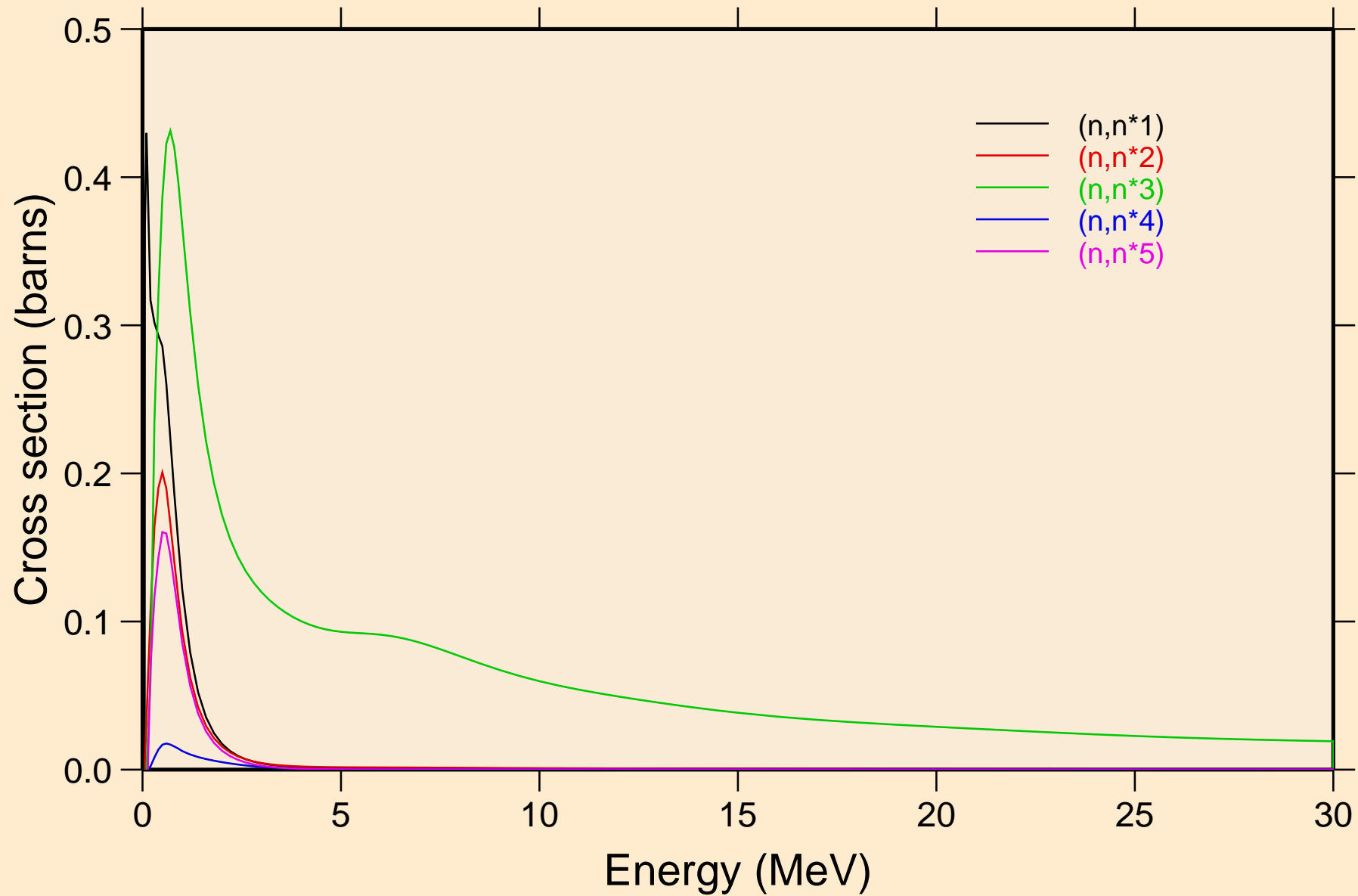


YB163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Non-threshold reactions

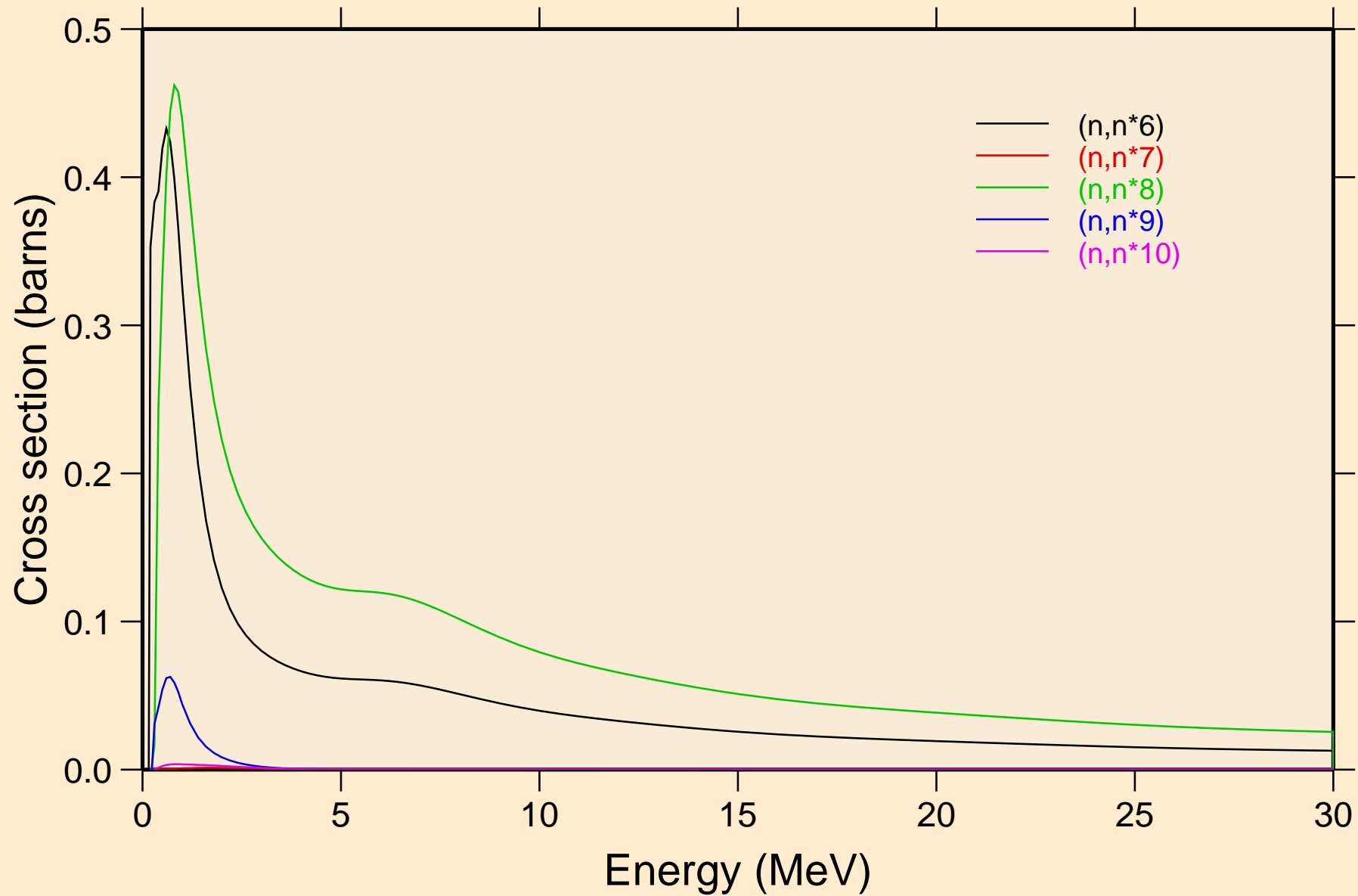




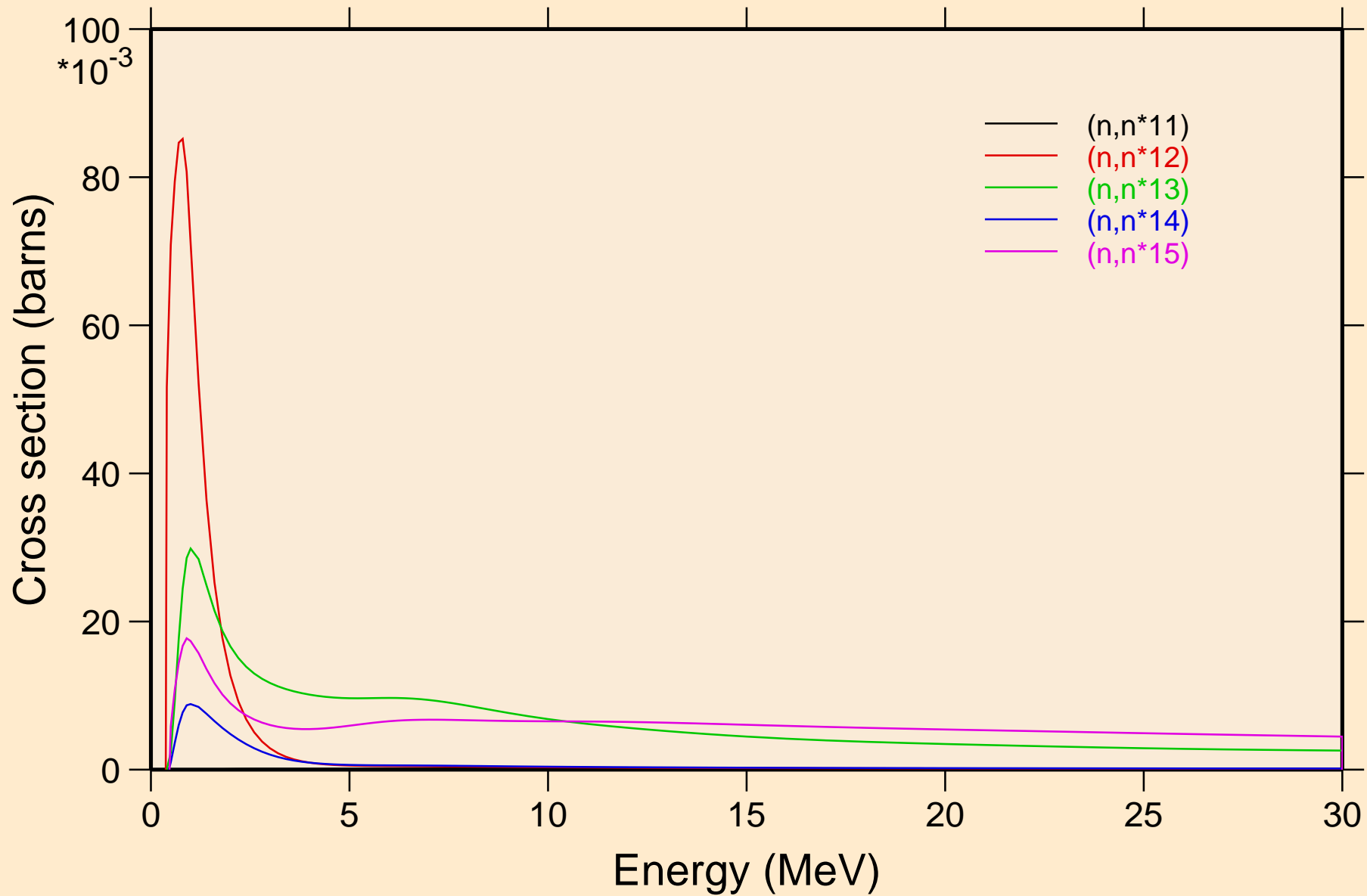
YB163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Inelastic levels



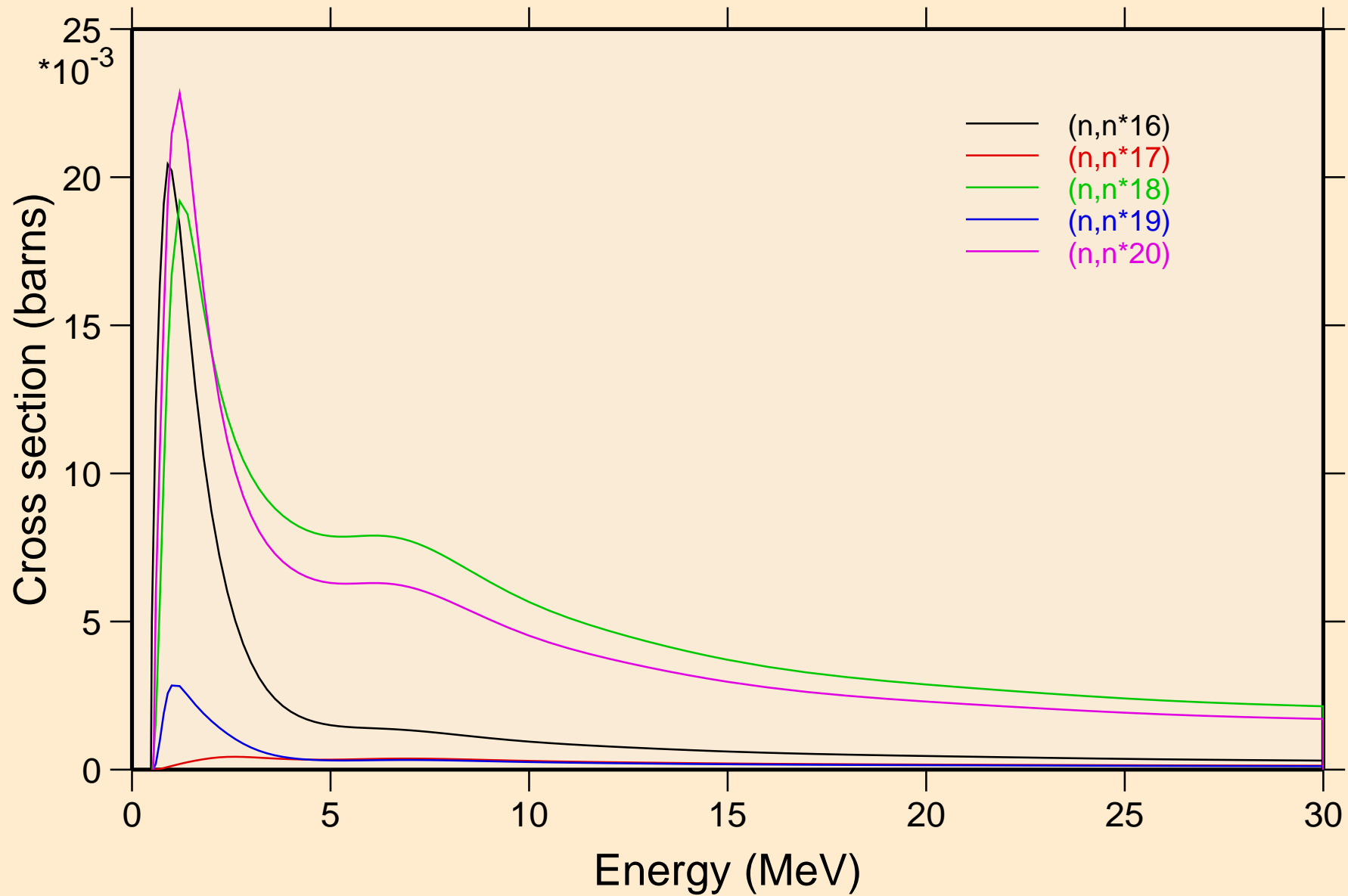
YB163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Inelastic levels



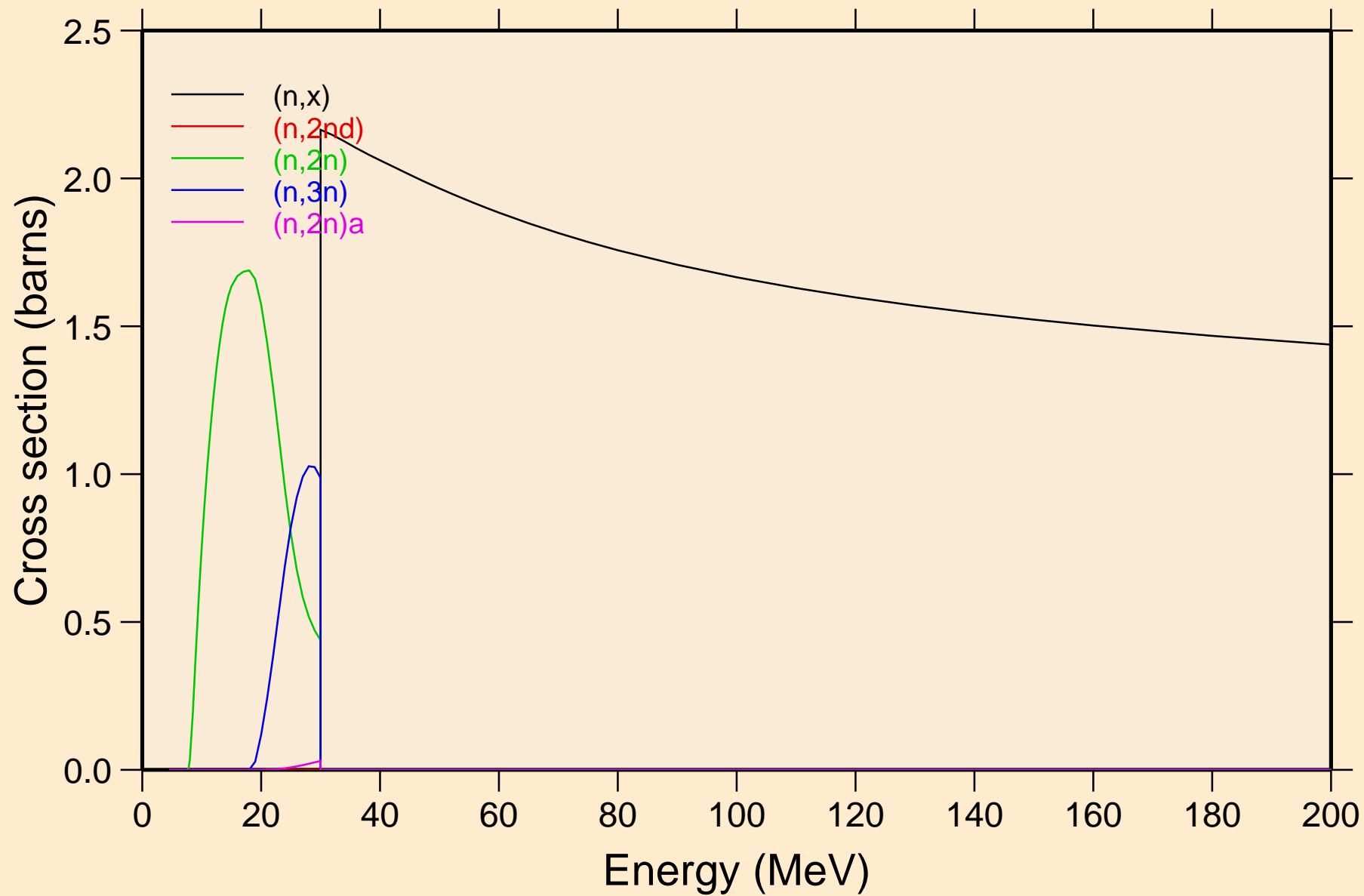
YB163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Inelastic levels



YB163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Inelastic levels

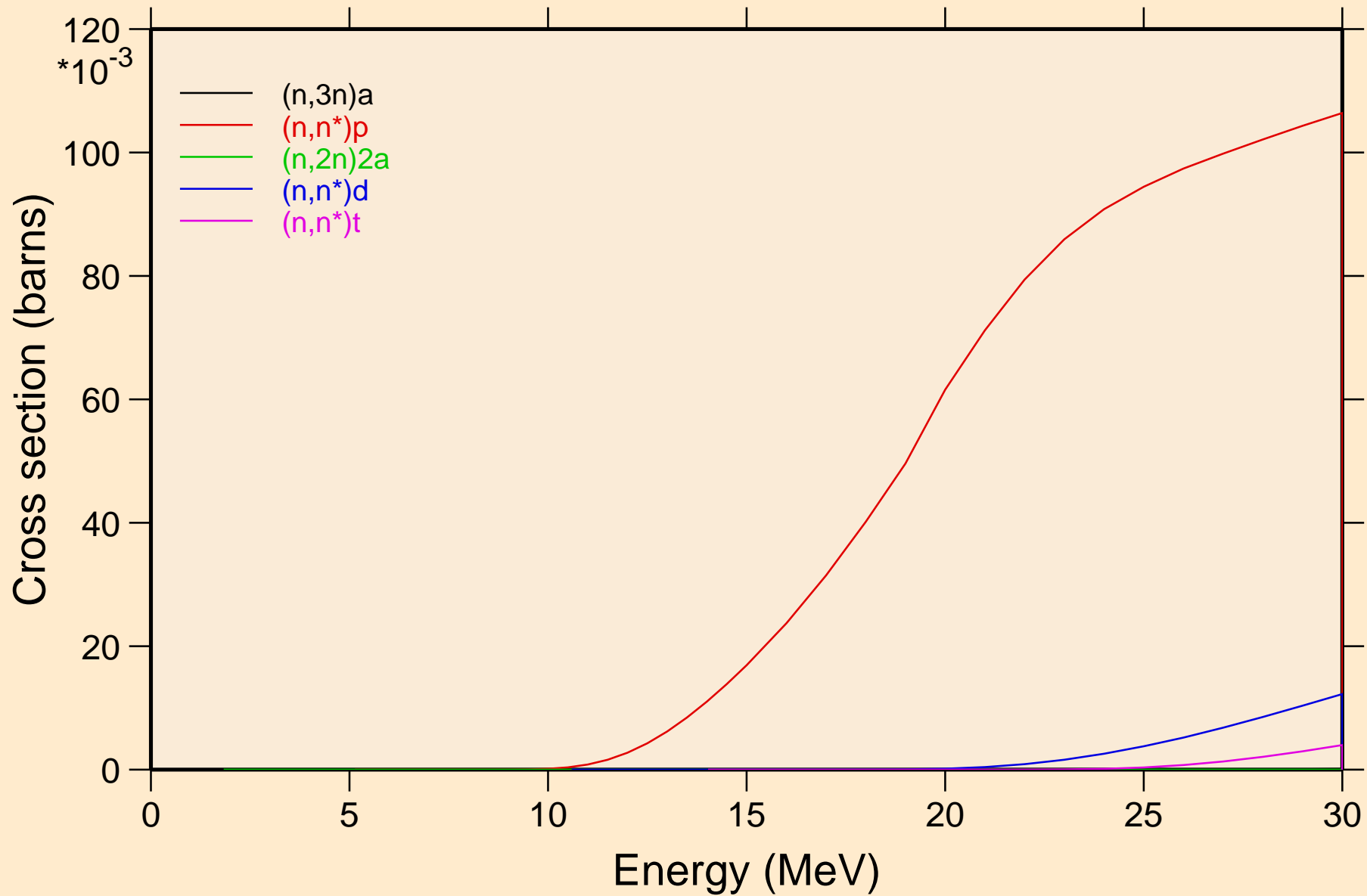


YB163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Threshold reactions

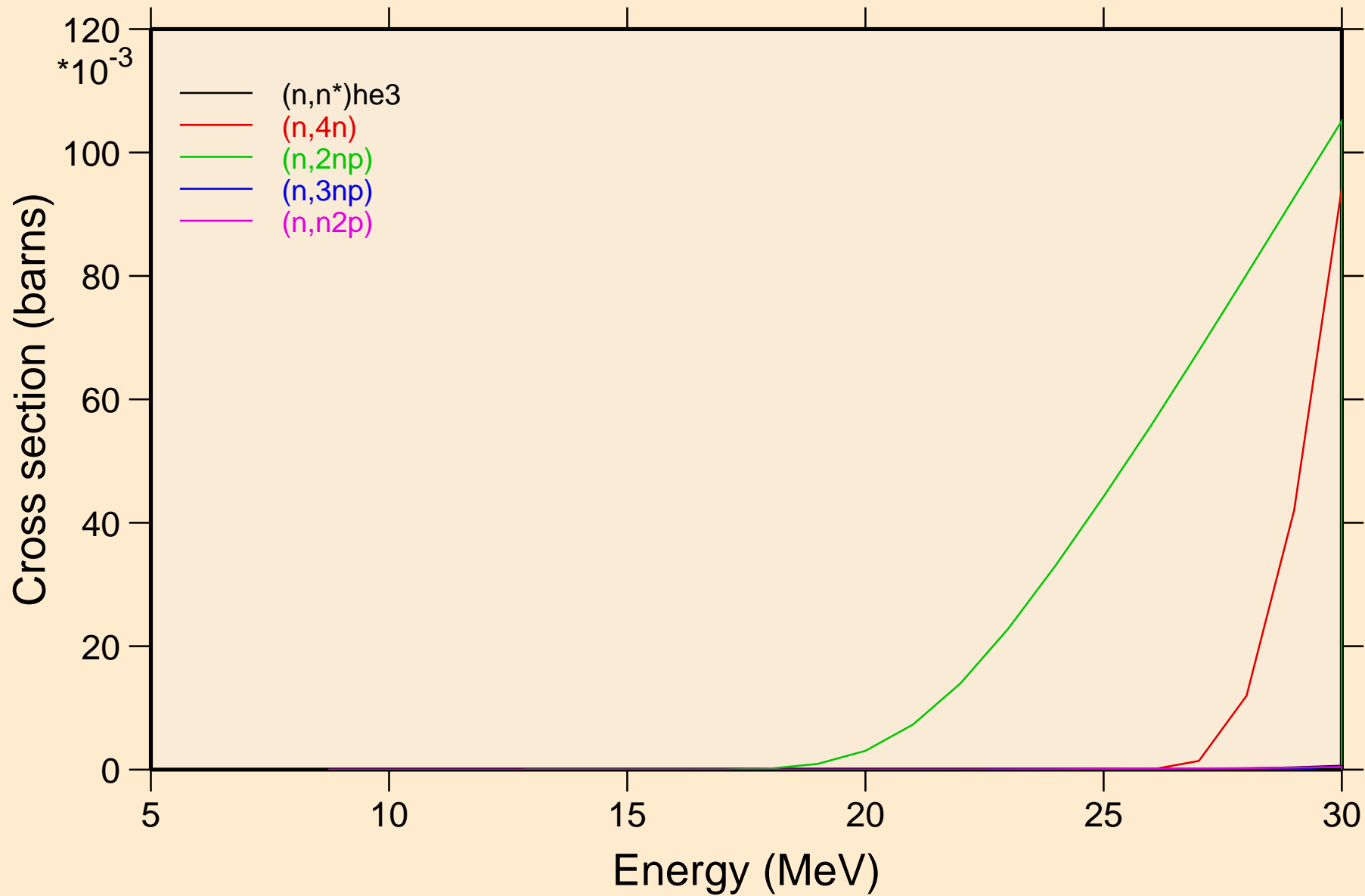


# YB163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

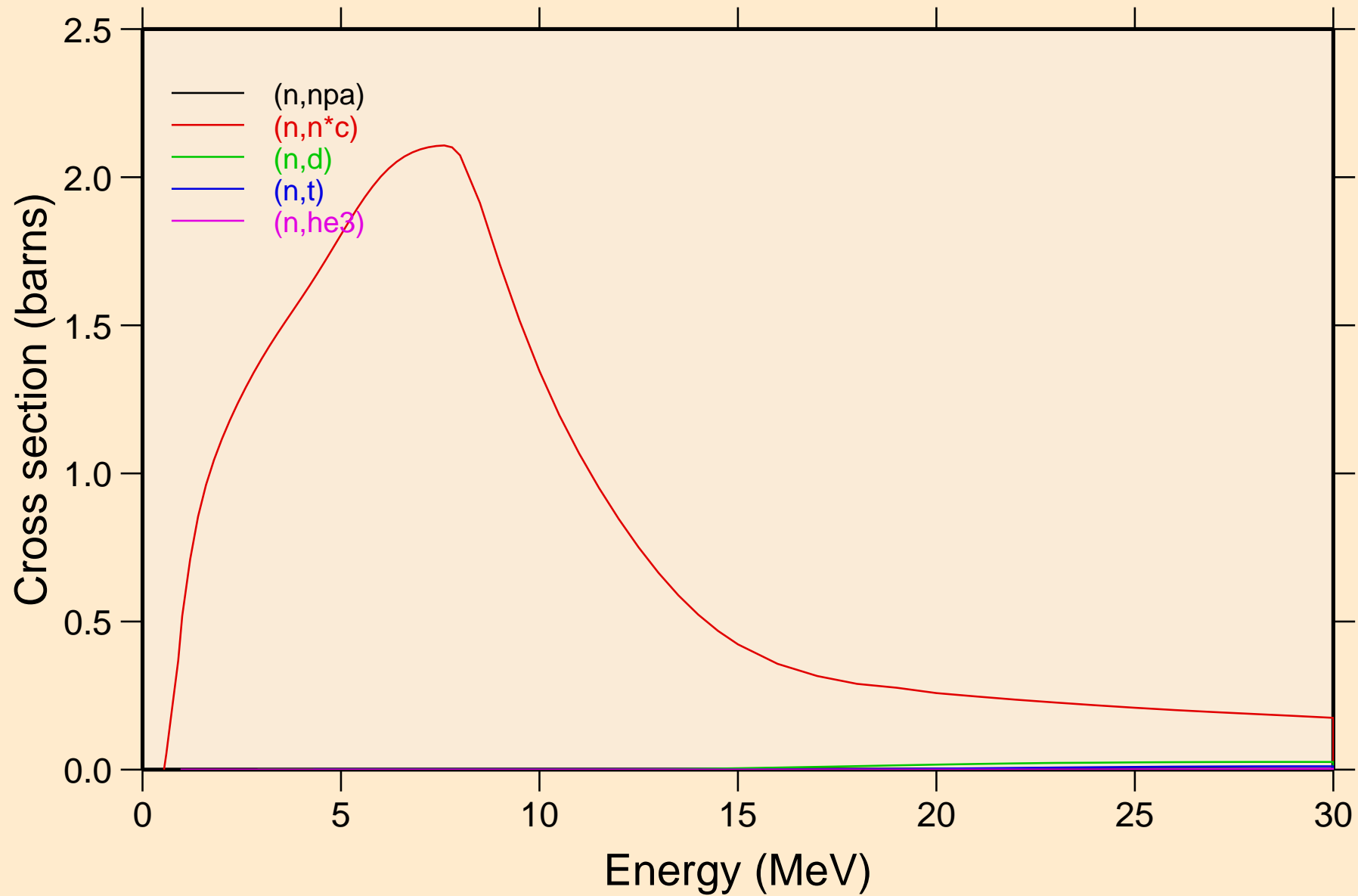
## Threshold reactions



YB163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Threshold reactions

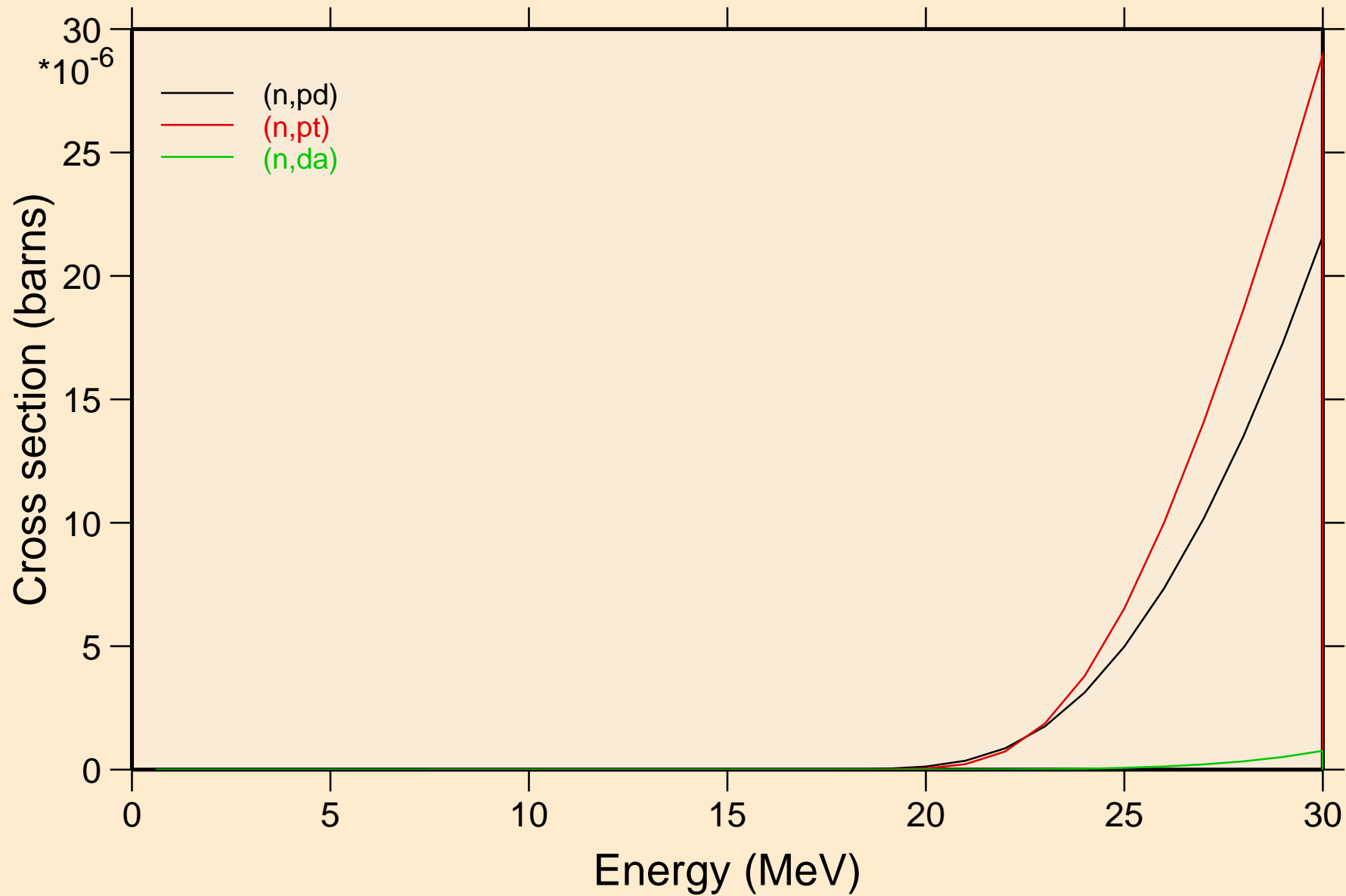


YB163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Threshold reactions

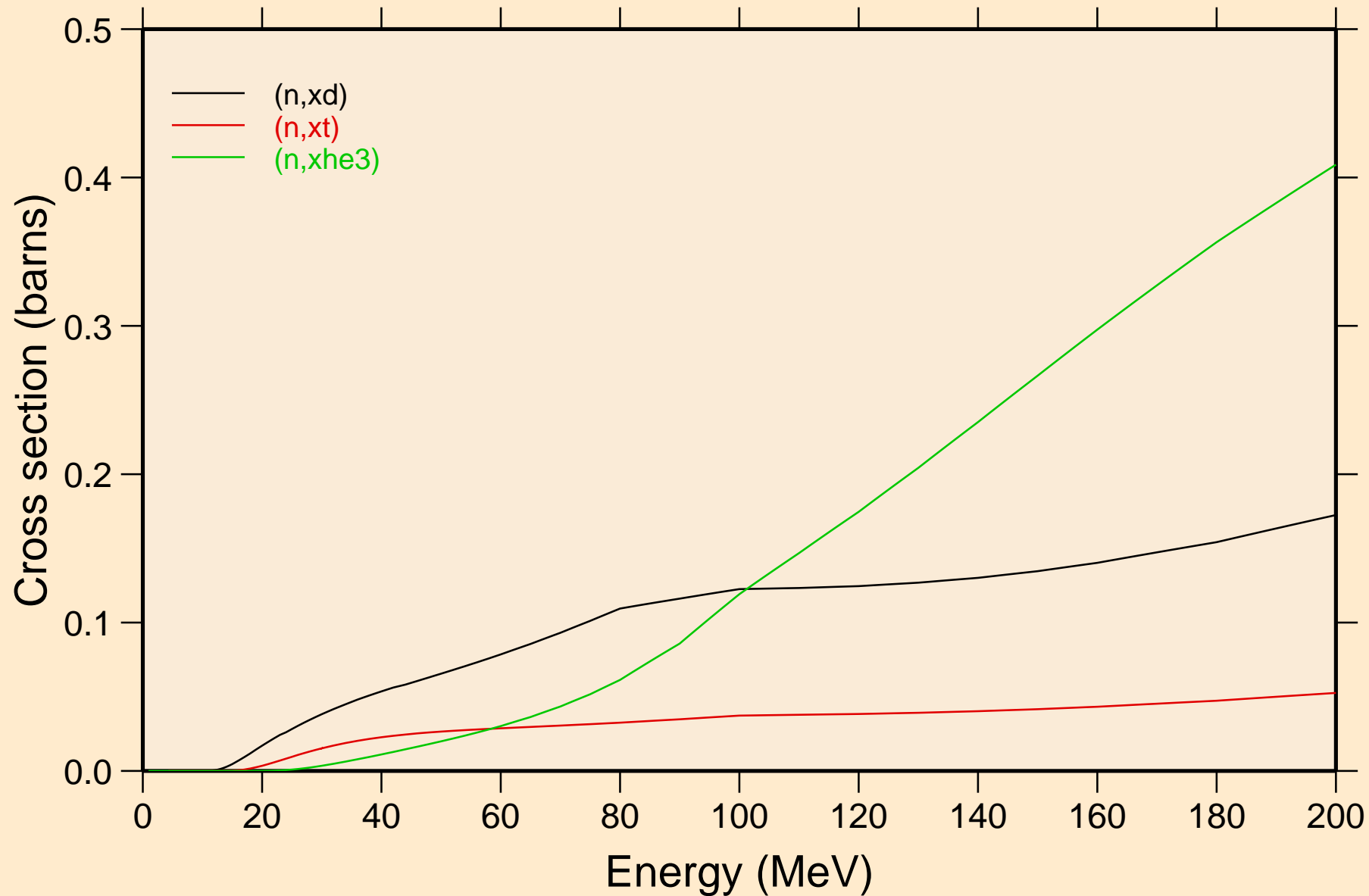




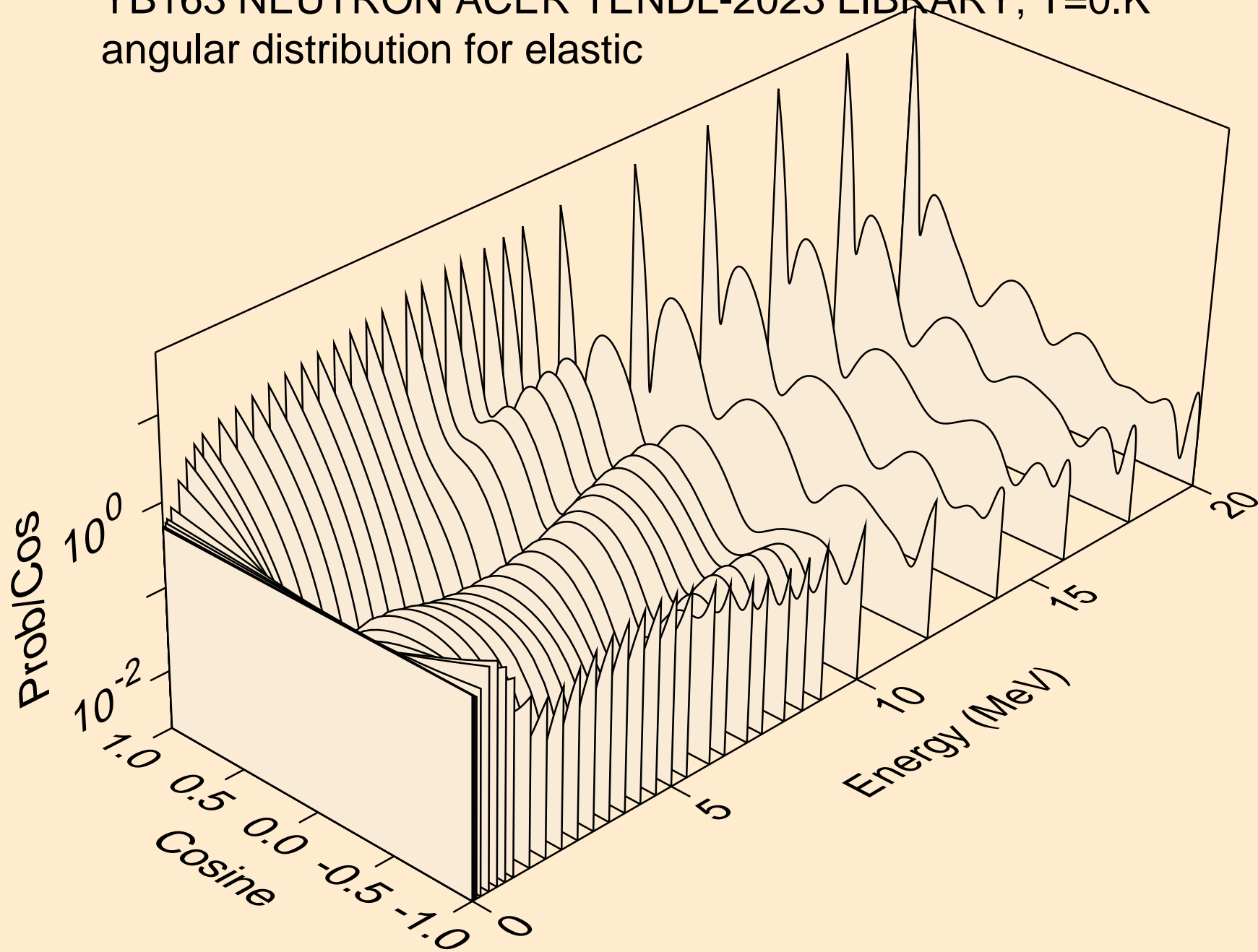
YB163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Threshold reactions



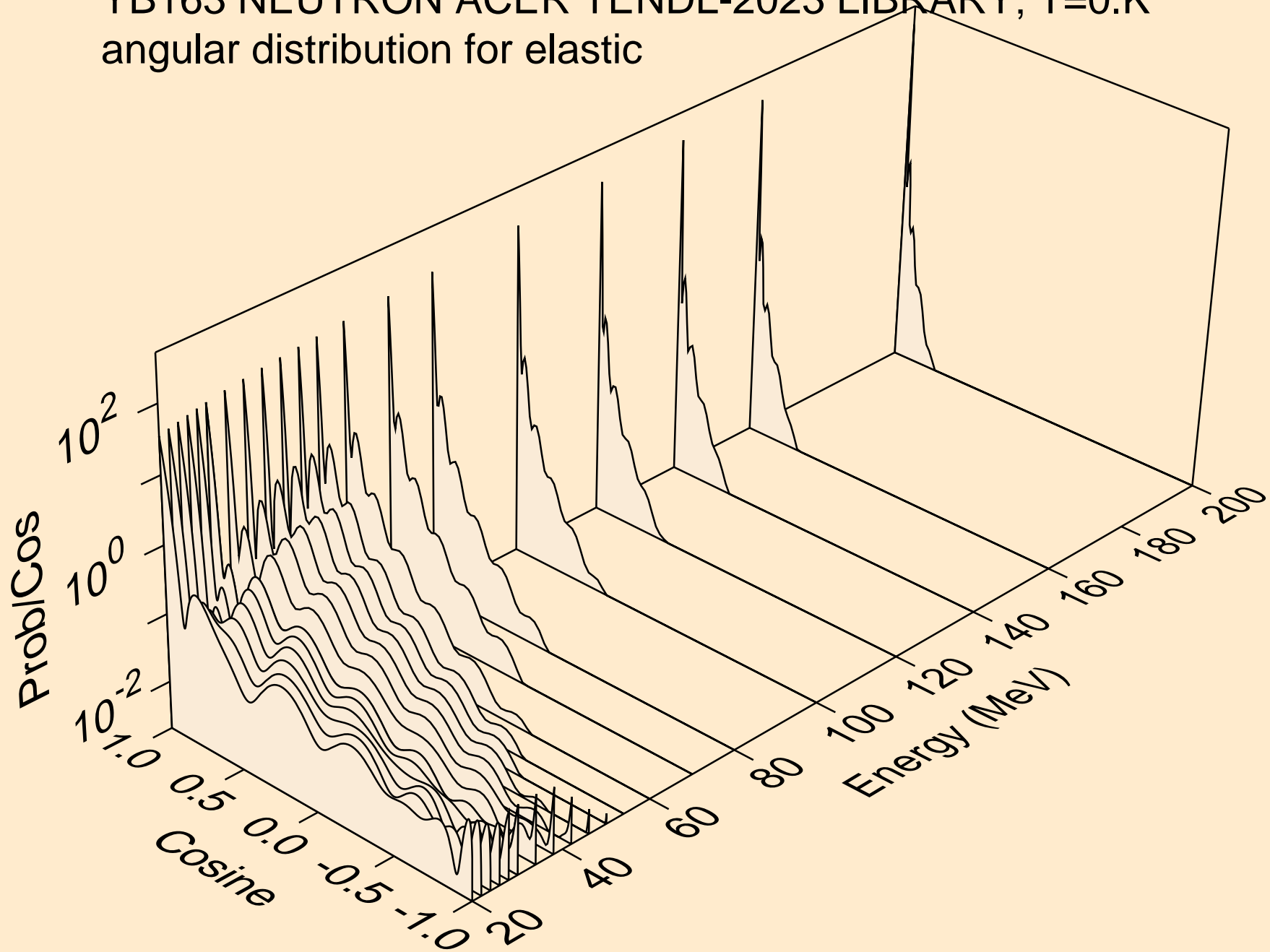
YB163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Threshold reactions



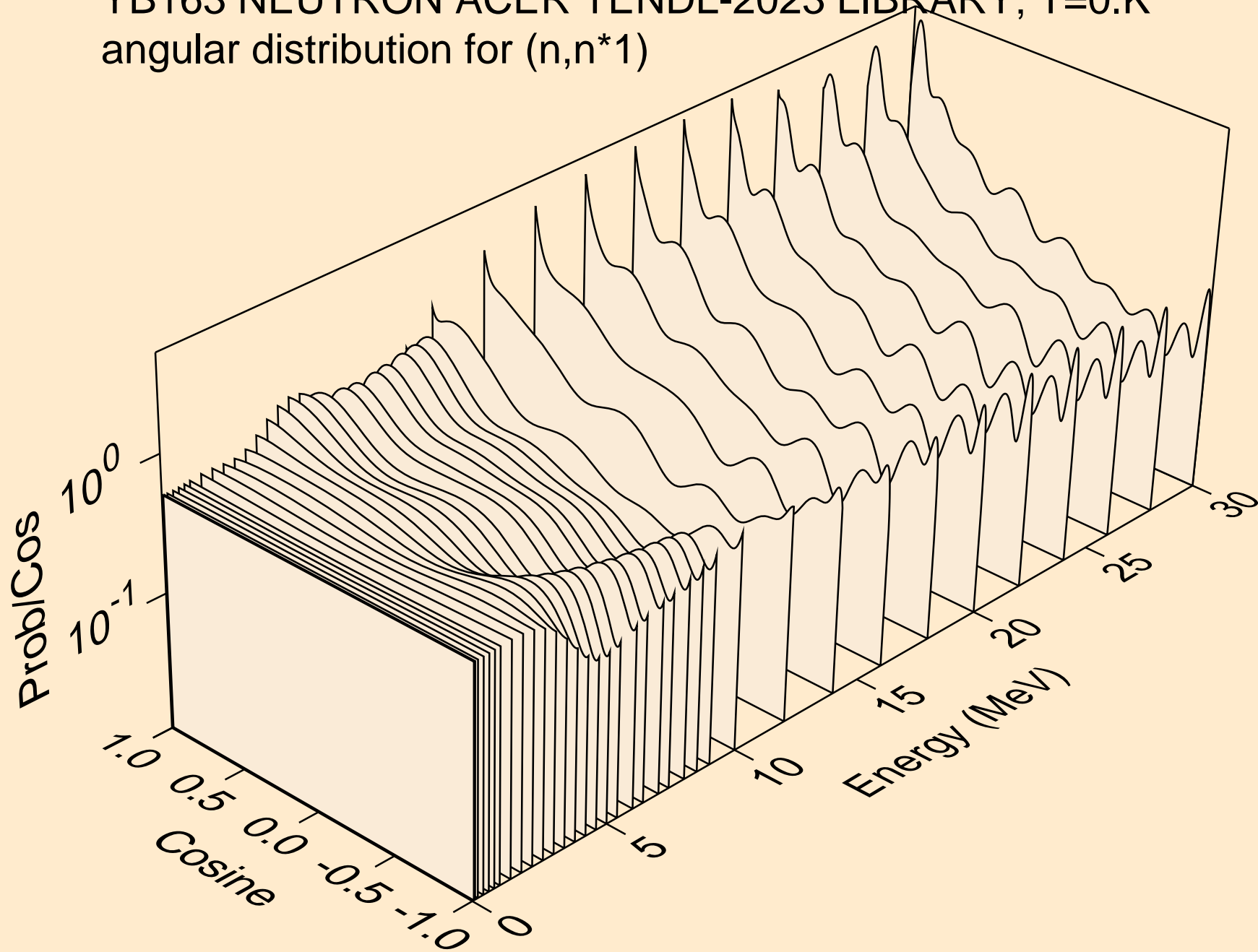
YB163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for elastic



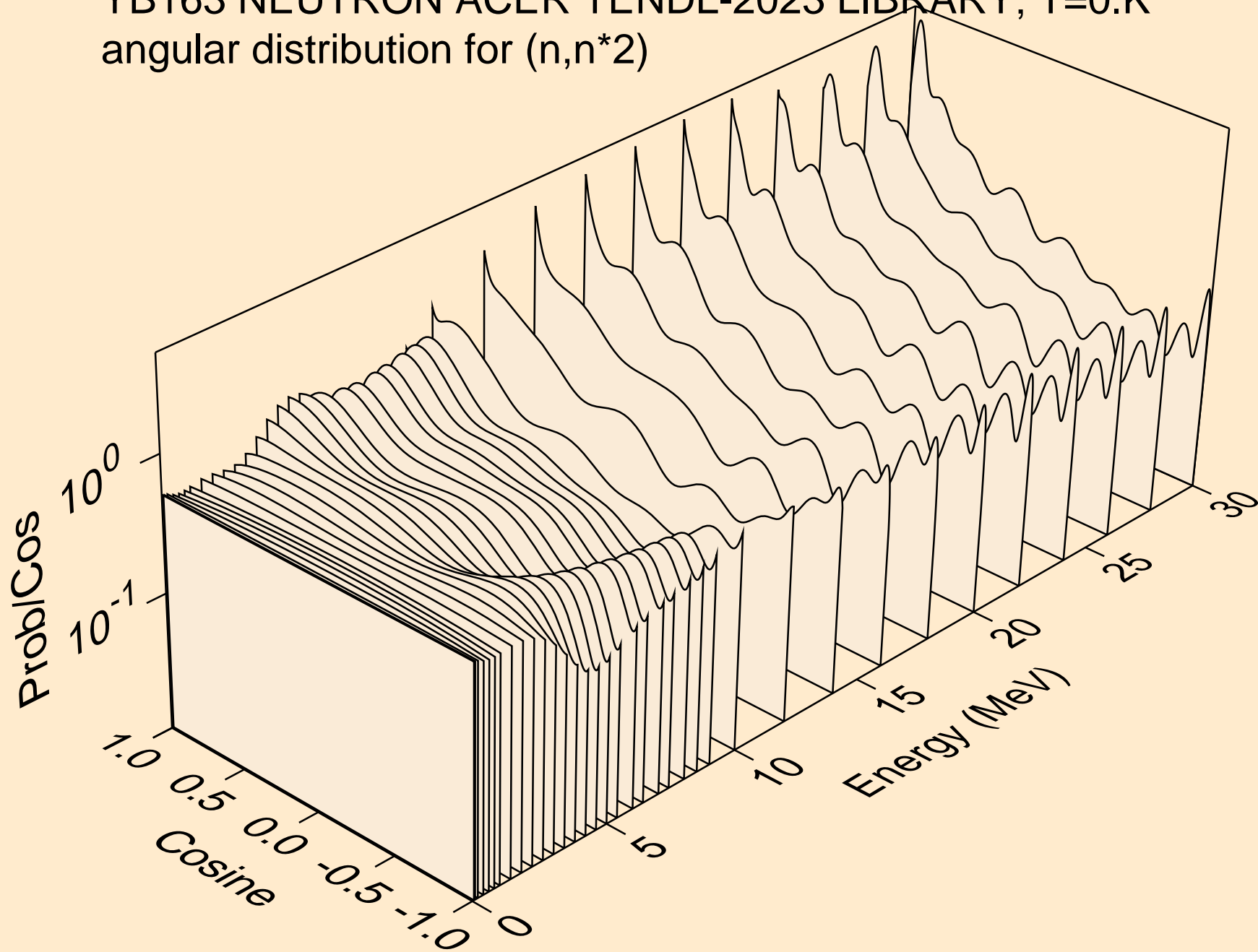
YB163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for elastic



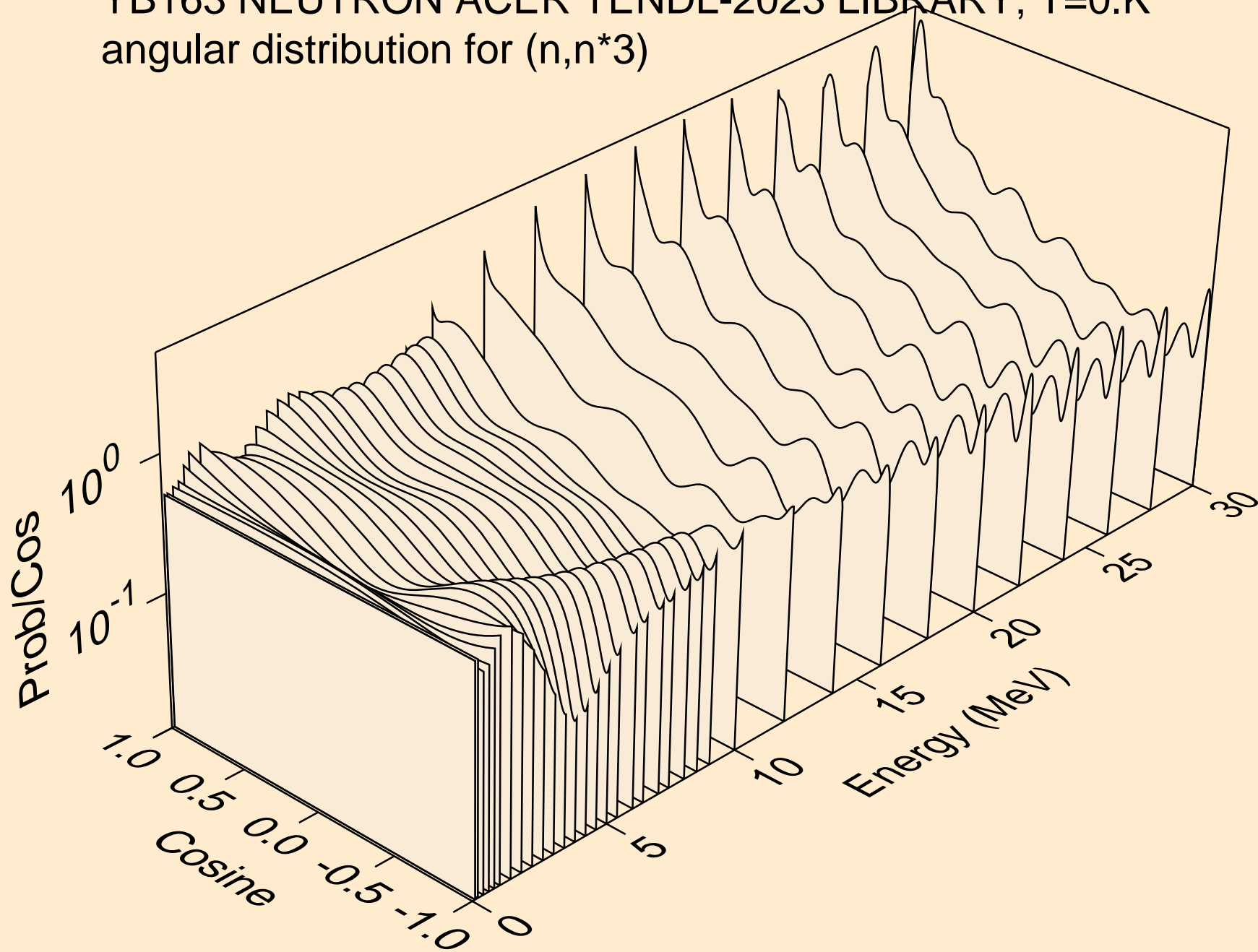
YB163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*1)



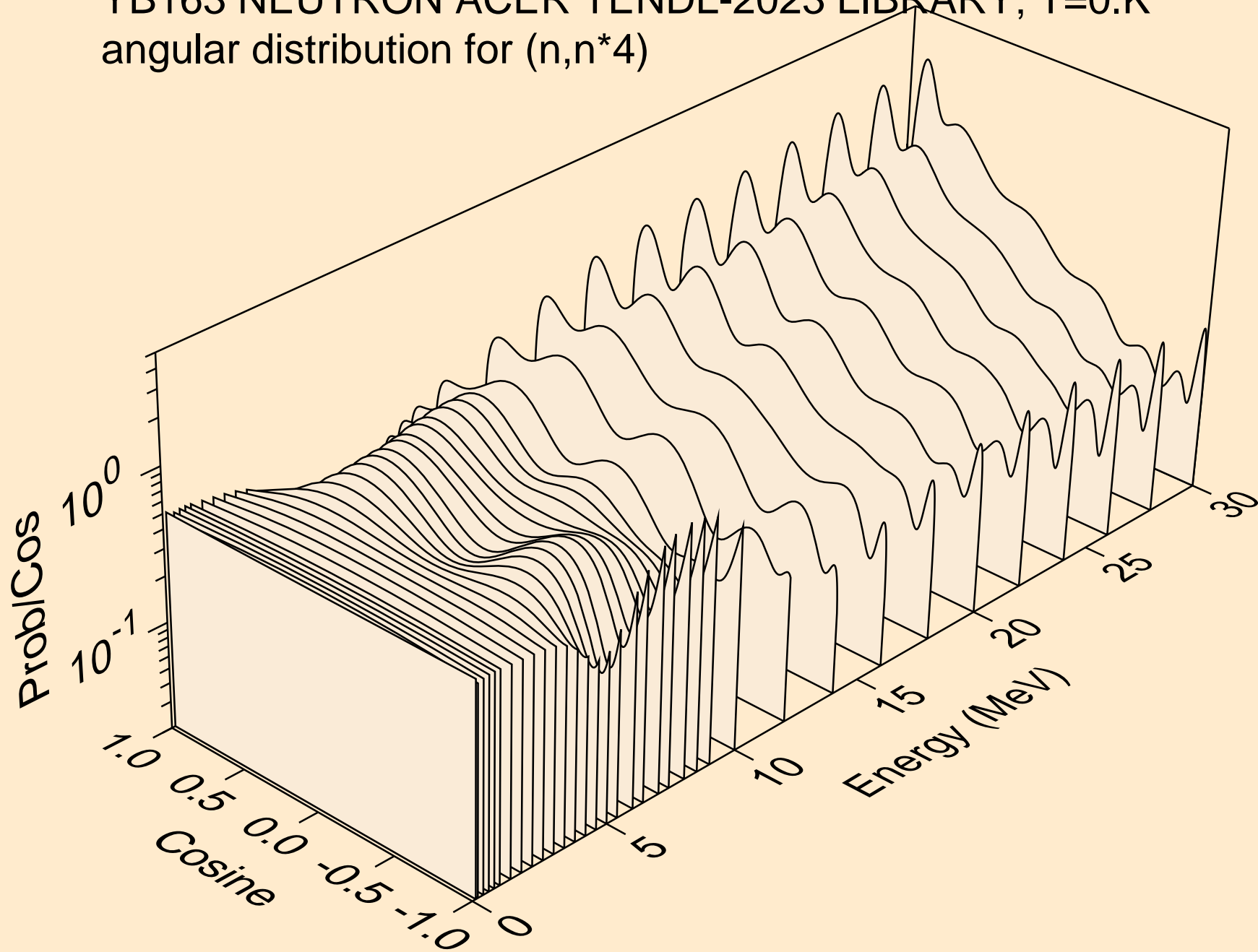
YB163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*2)



YB163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*3)

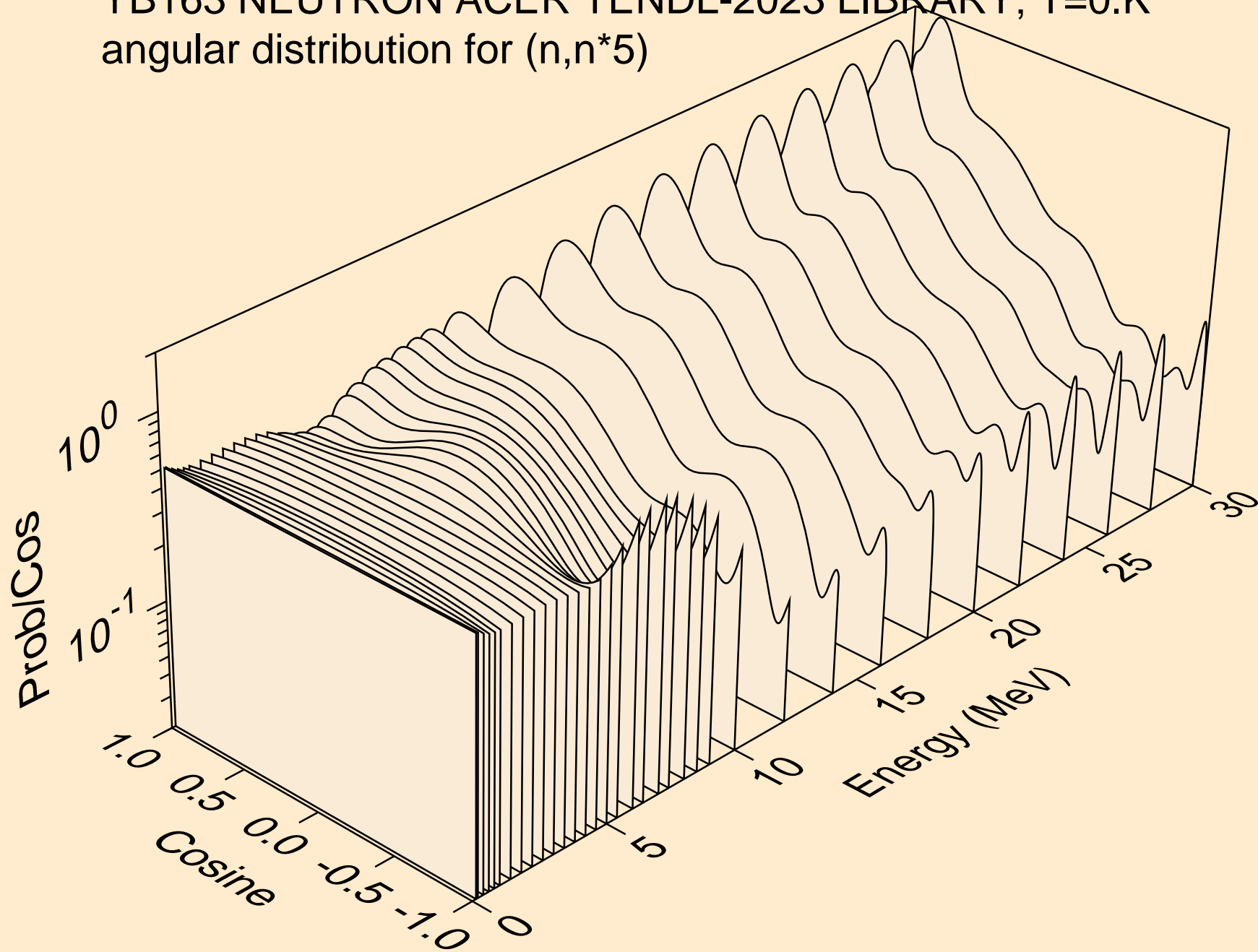


YB163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*4)

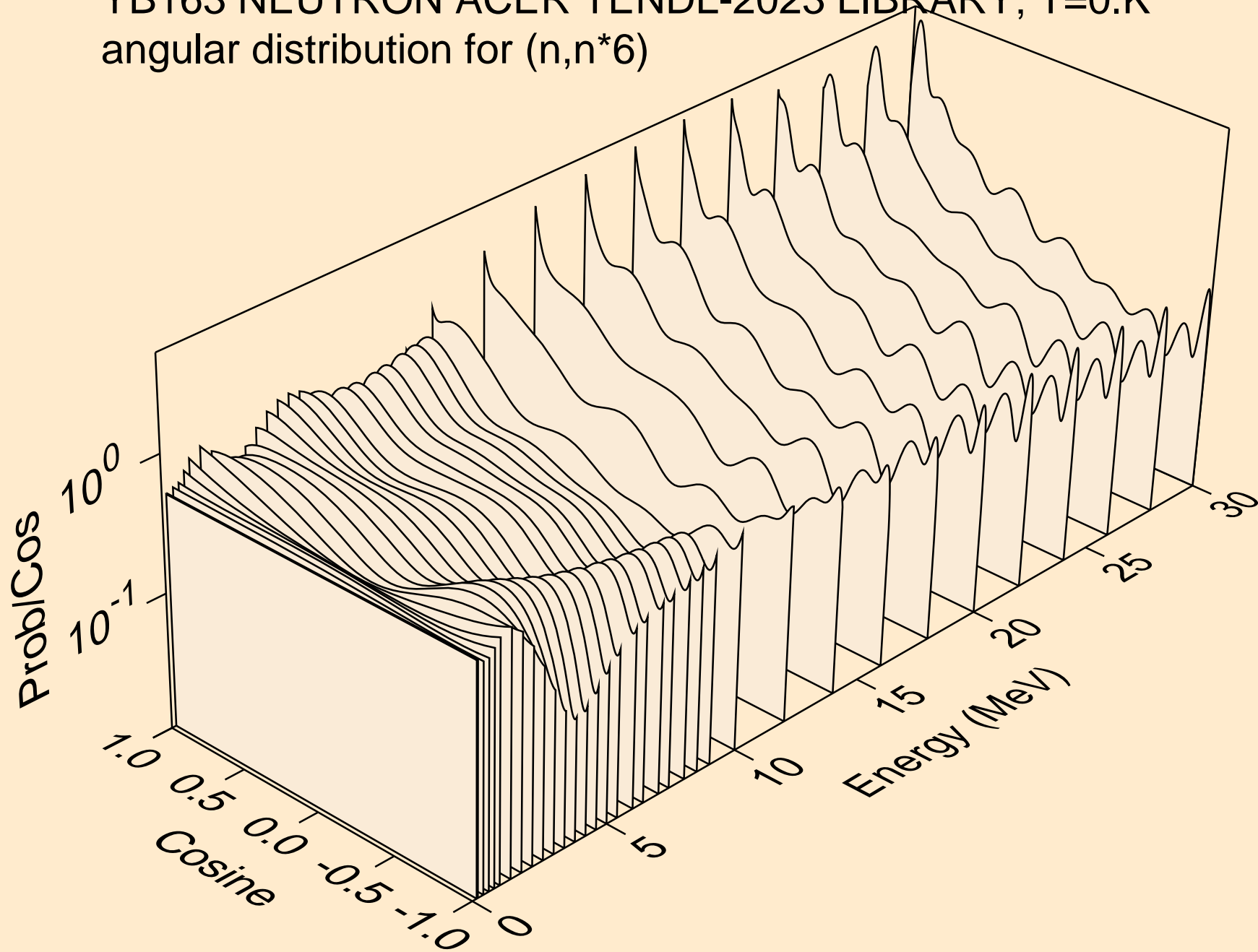




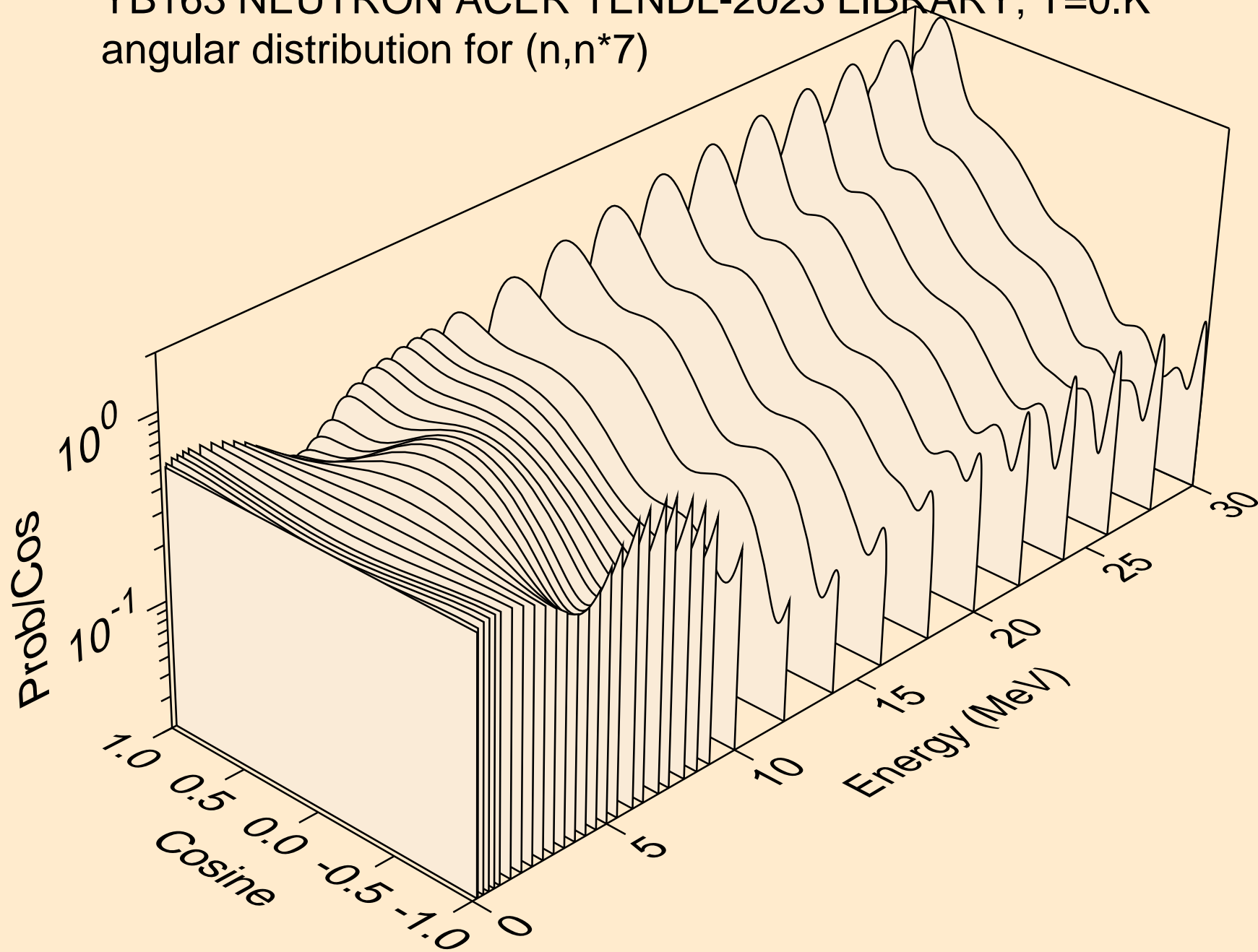
YB163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*5)



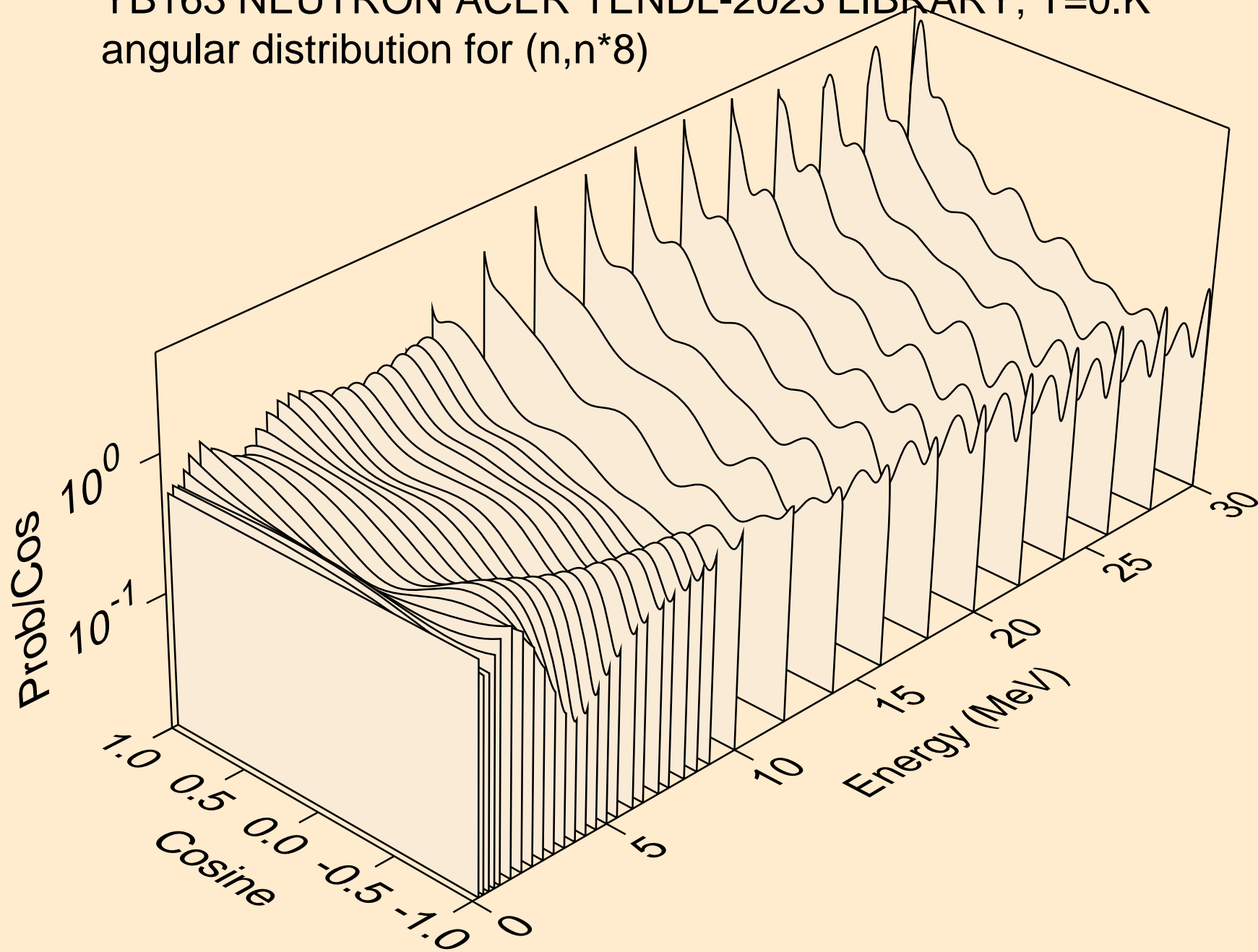
YB163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*6)



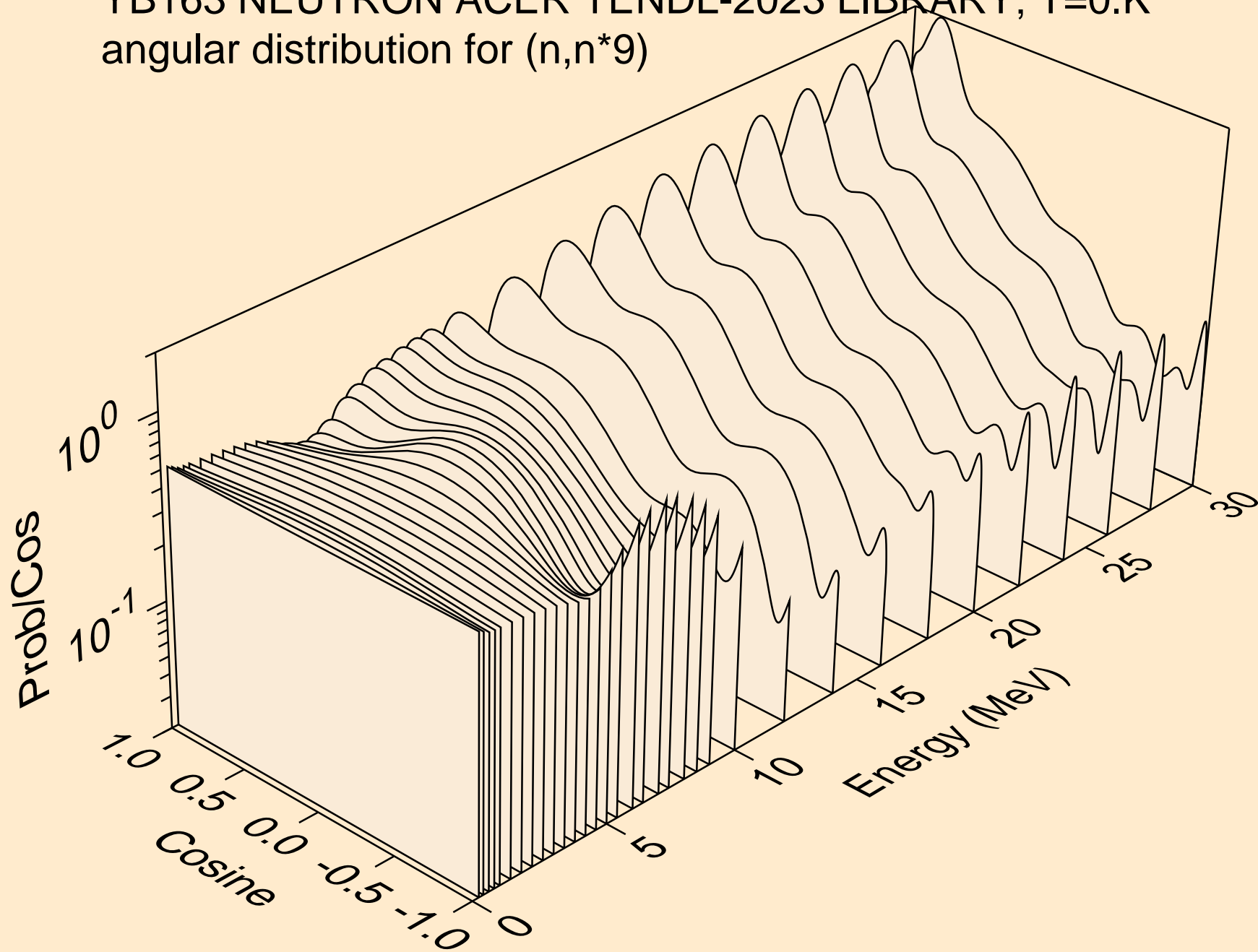
YB163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*7)



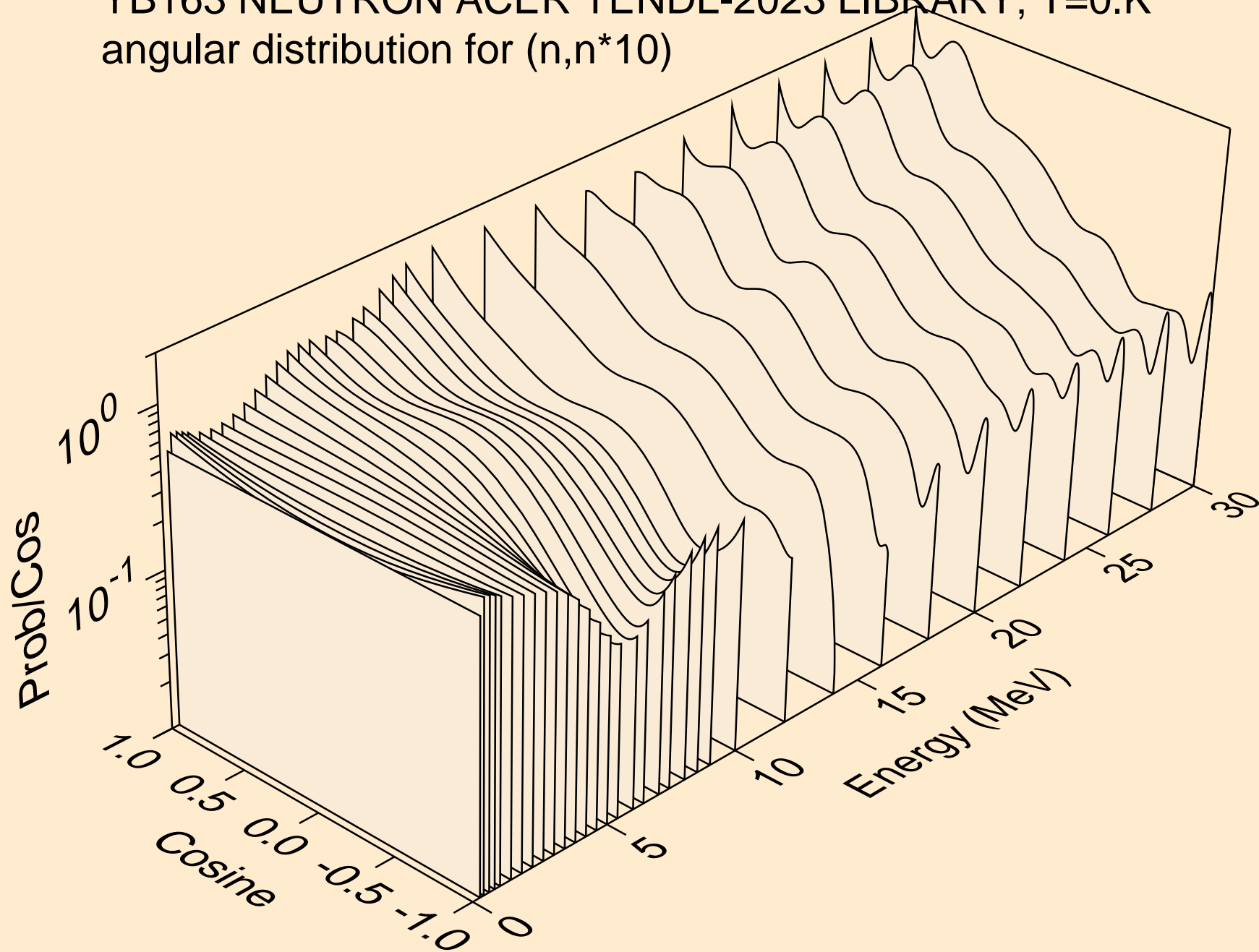
YB163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*8)



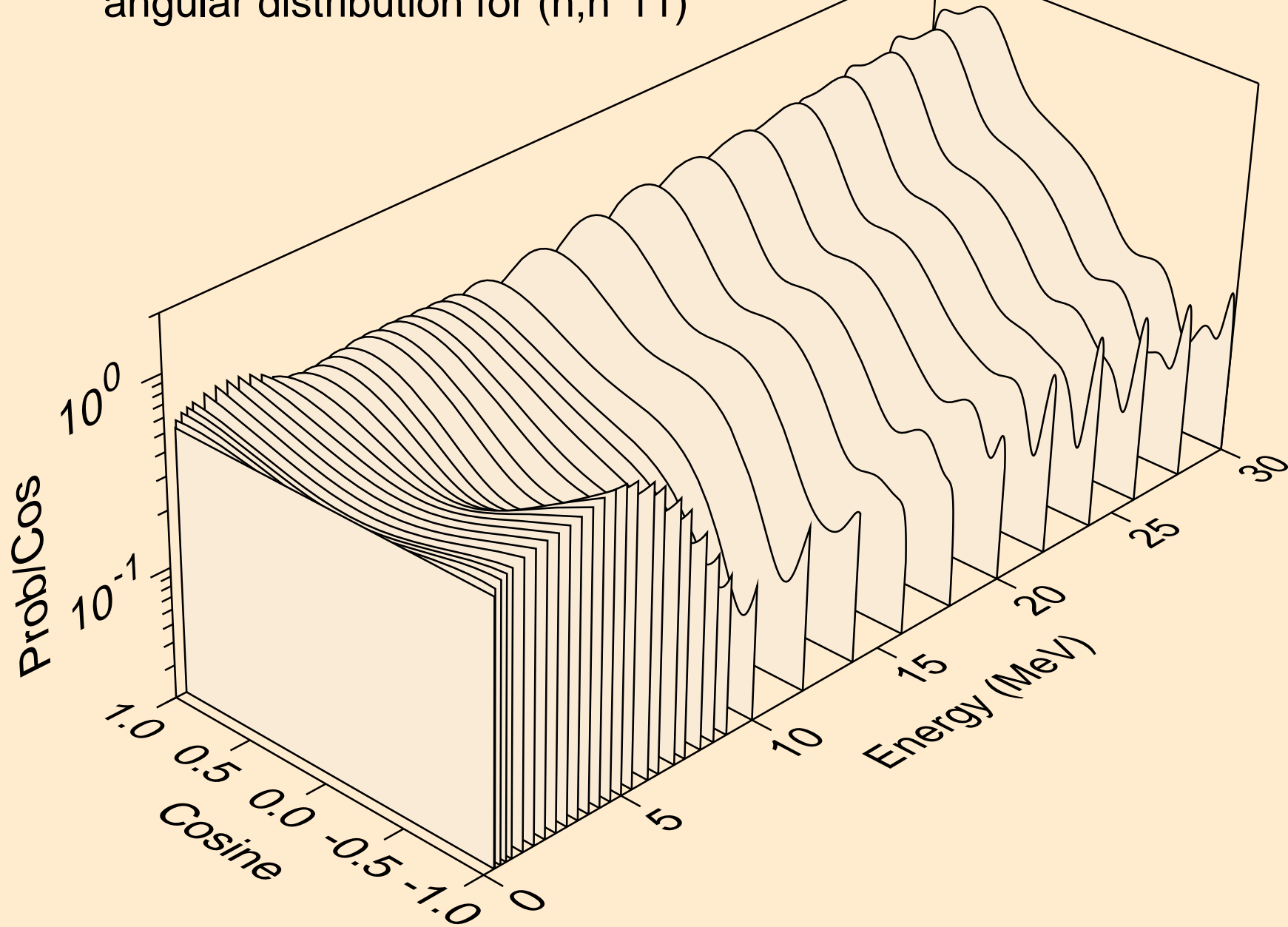
YB163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*9)



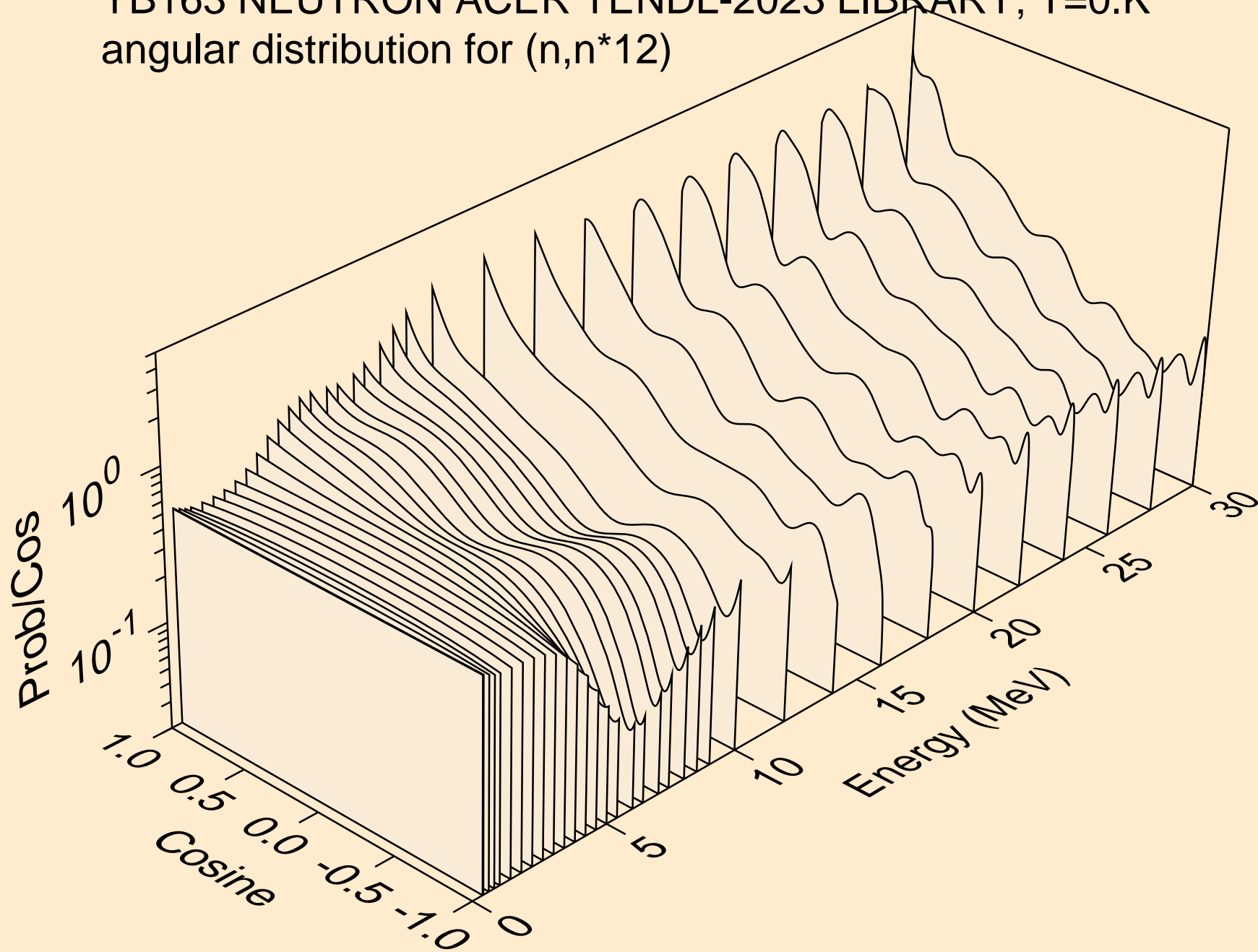
YB163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*10)



YB163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*11)

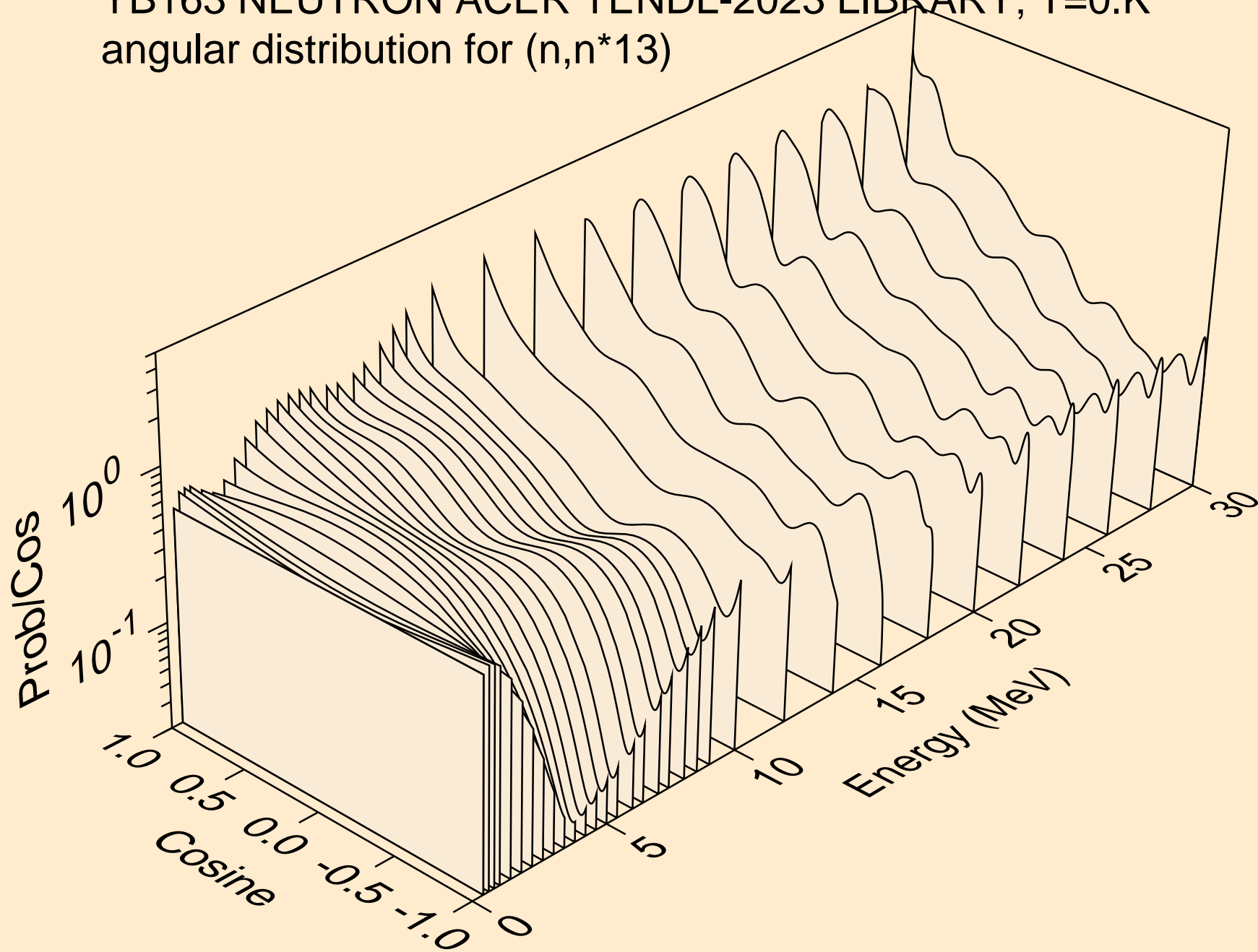


YB163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*12)

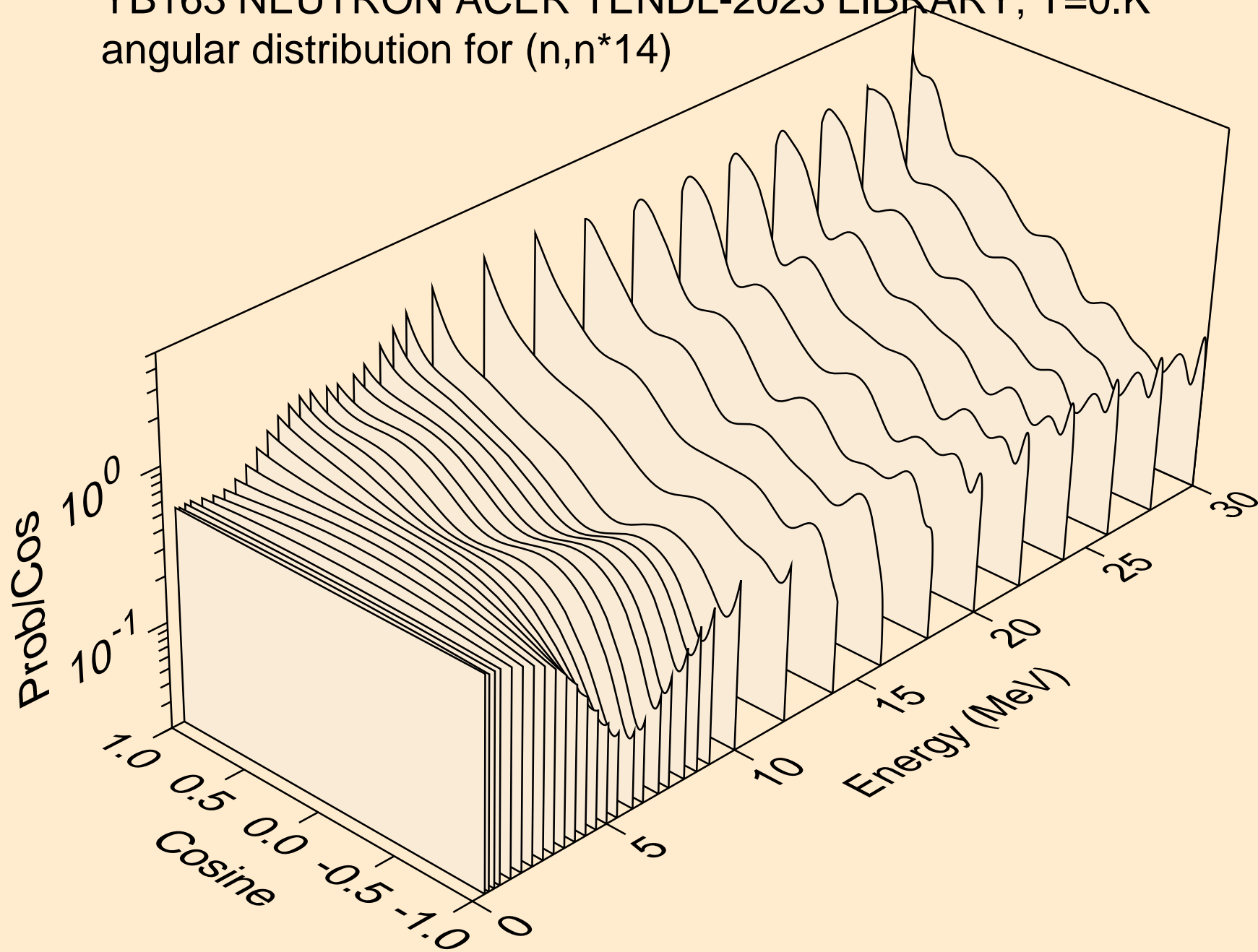




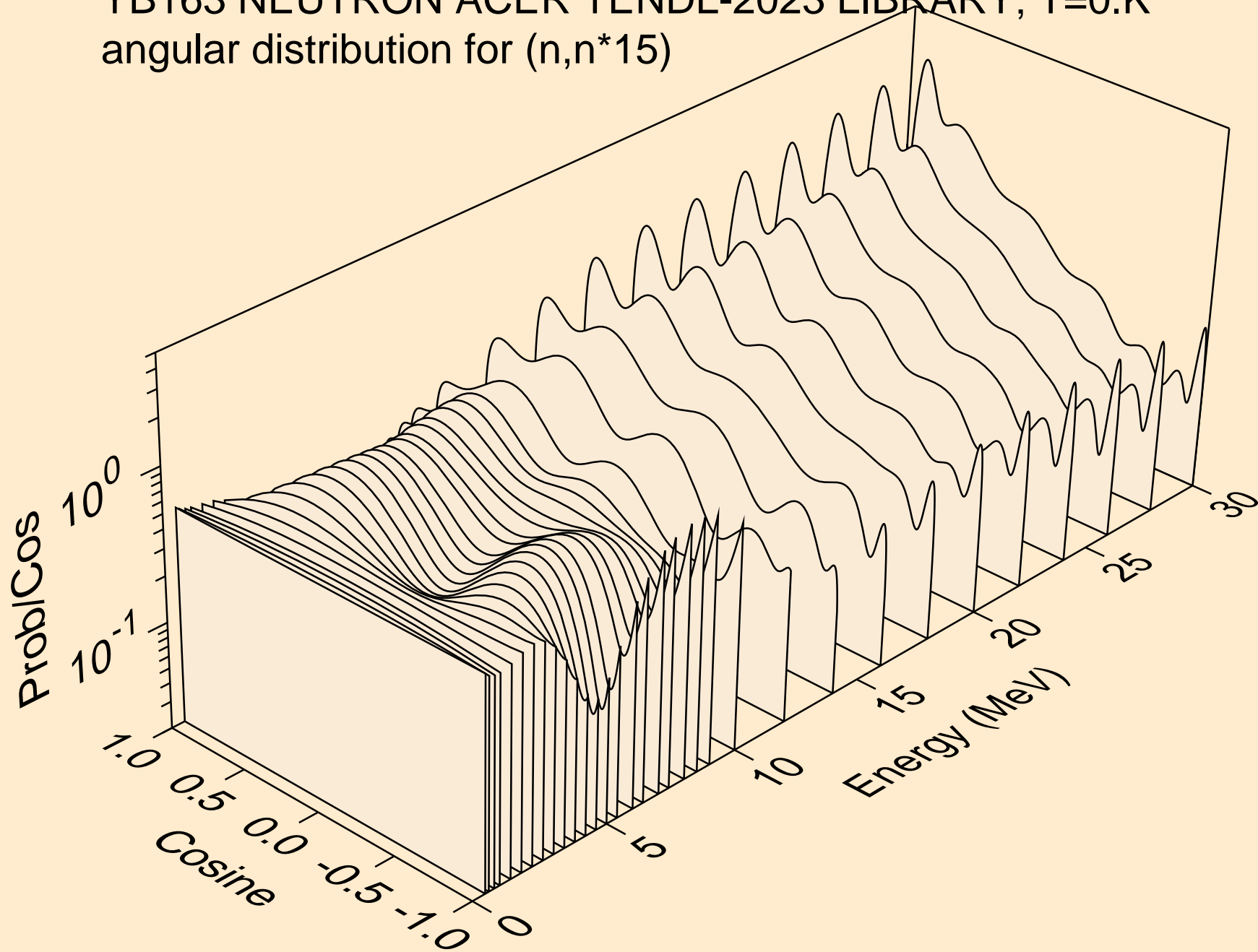
YB163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*13)



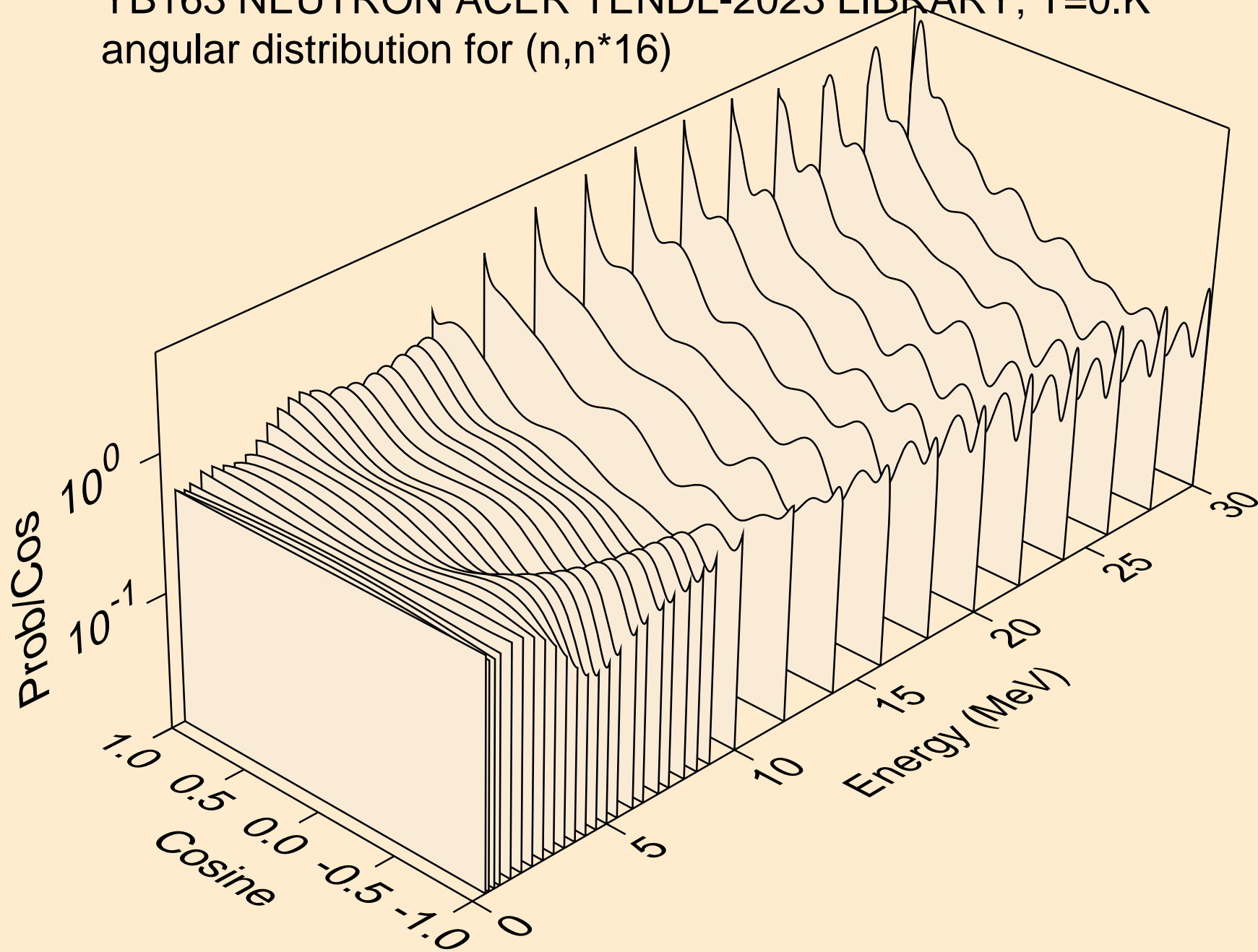
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angular distribution for (n,n\*14)



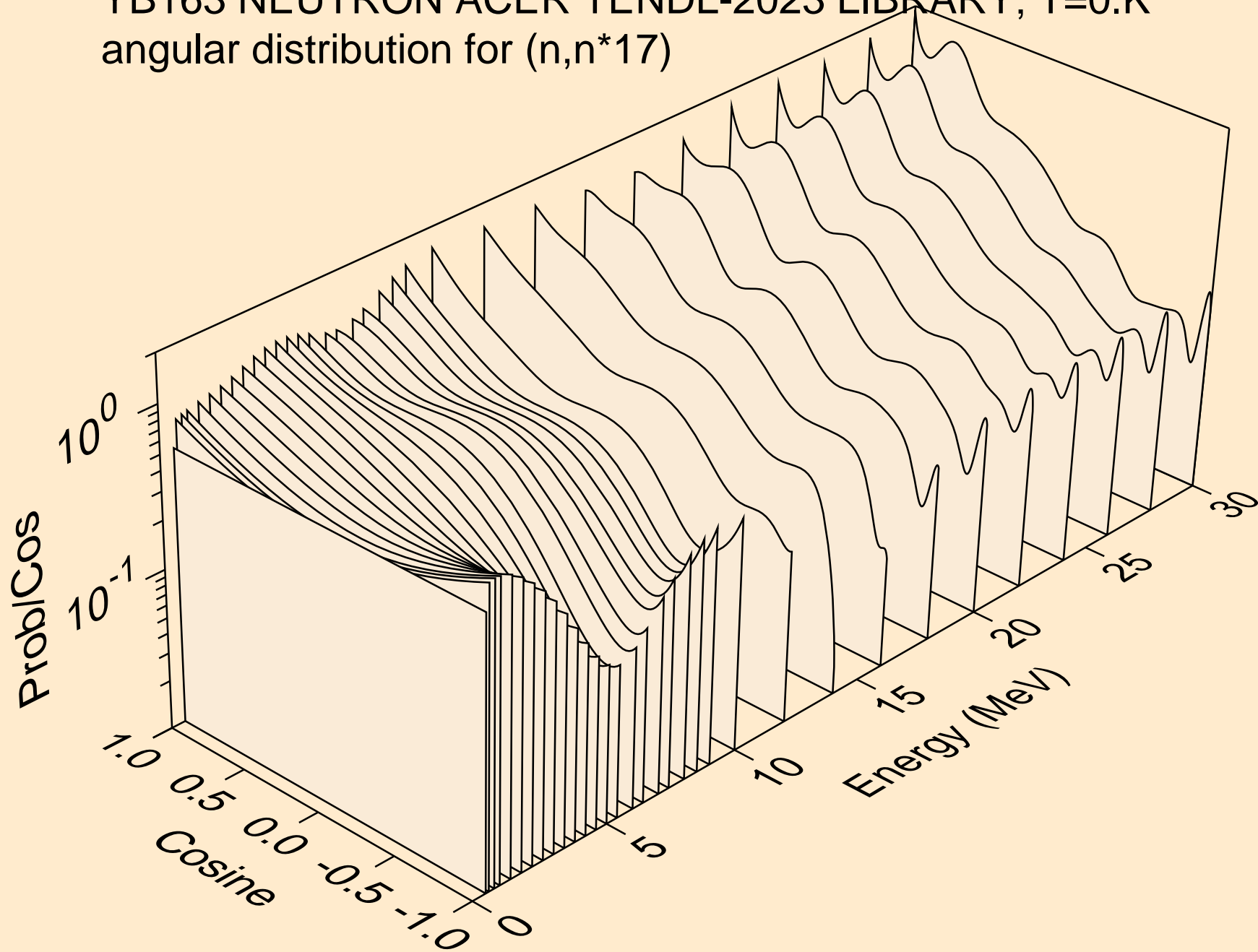
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angular distribution for (n,n\*15)



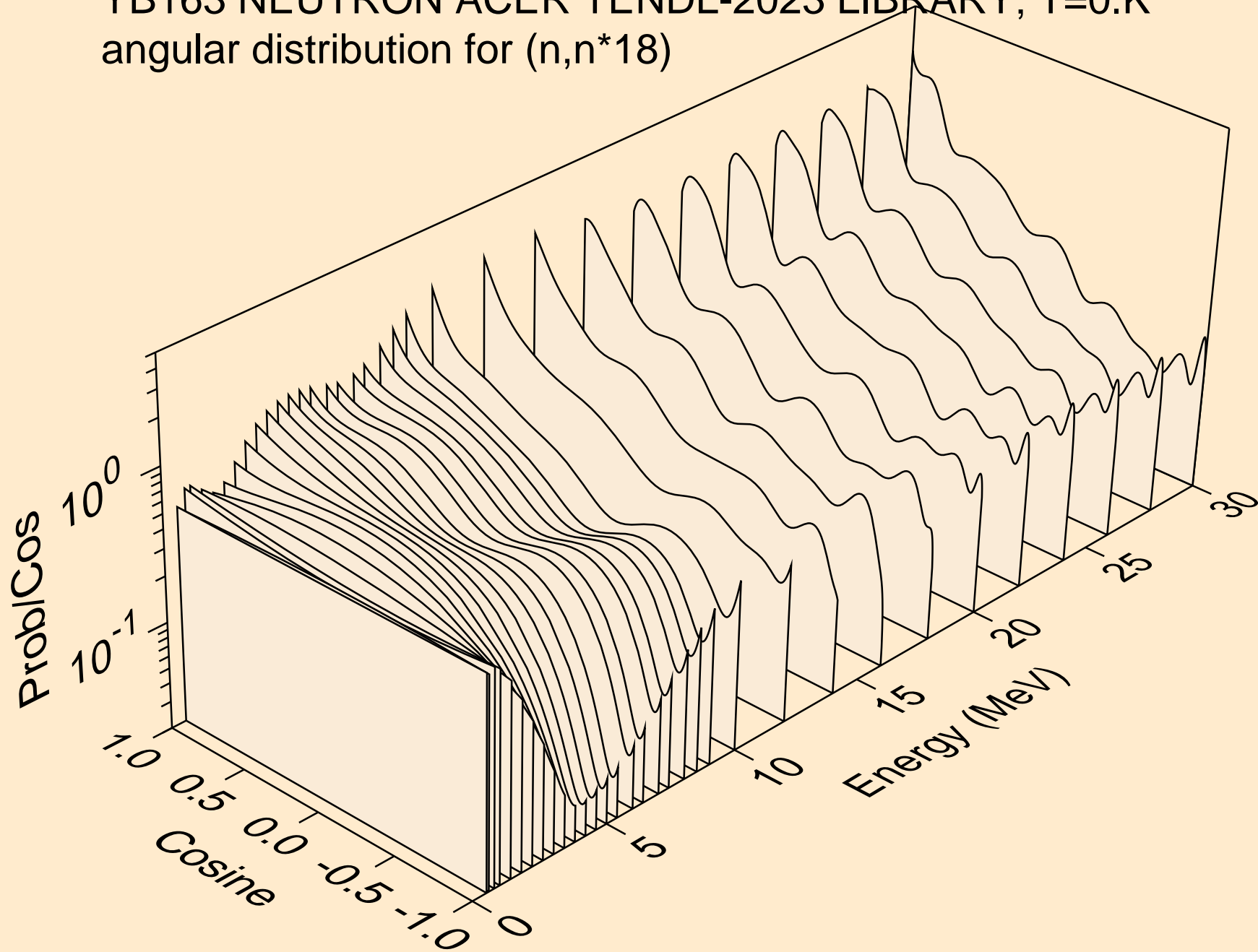
YB163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*16)



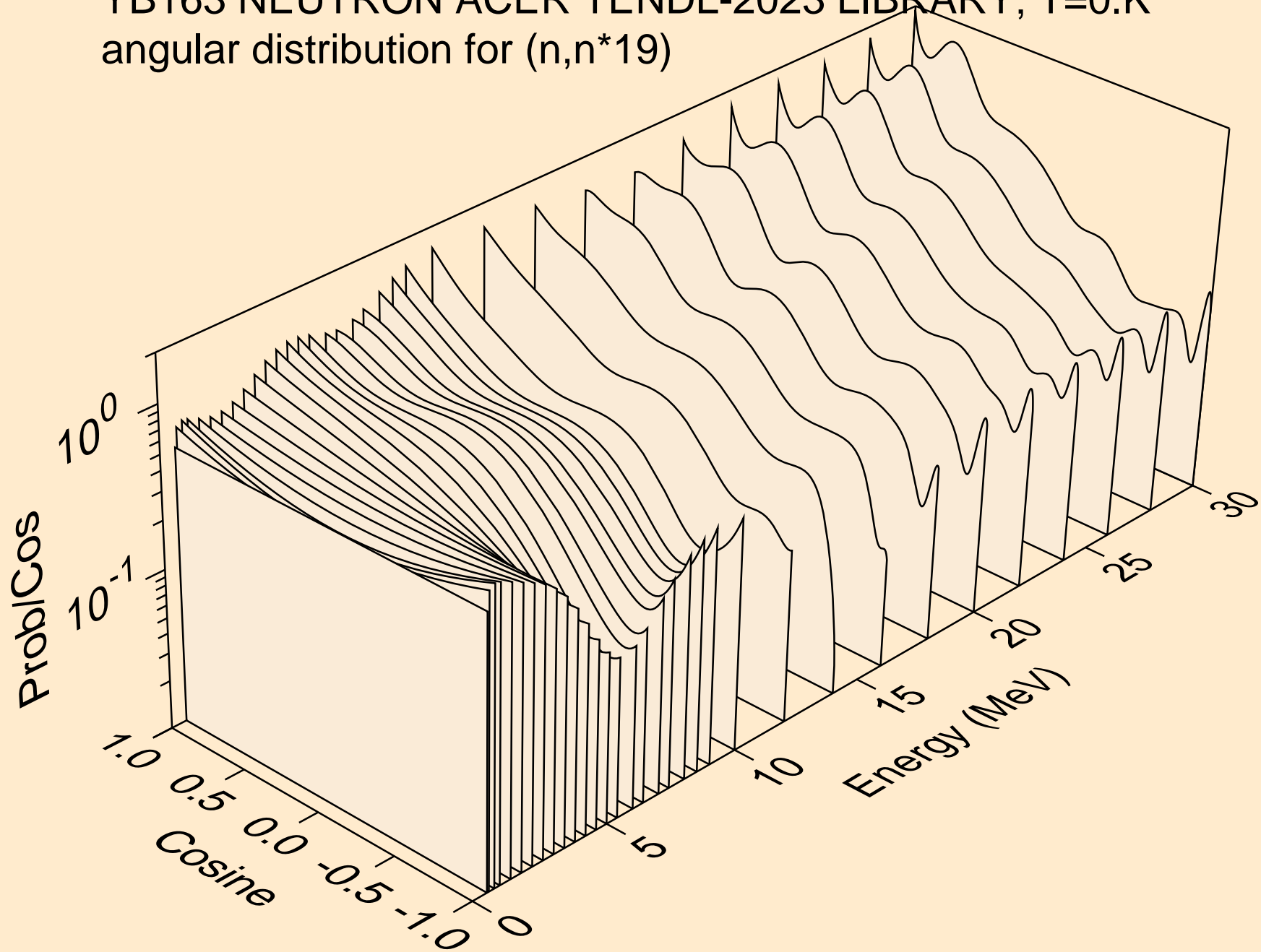
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angular distribution for (n,n\*17)



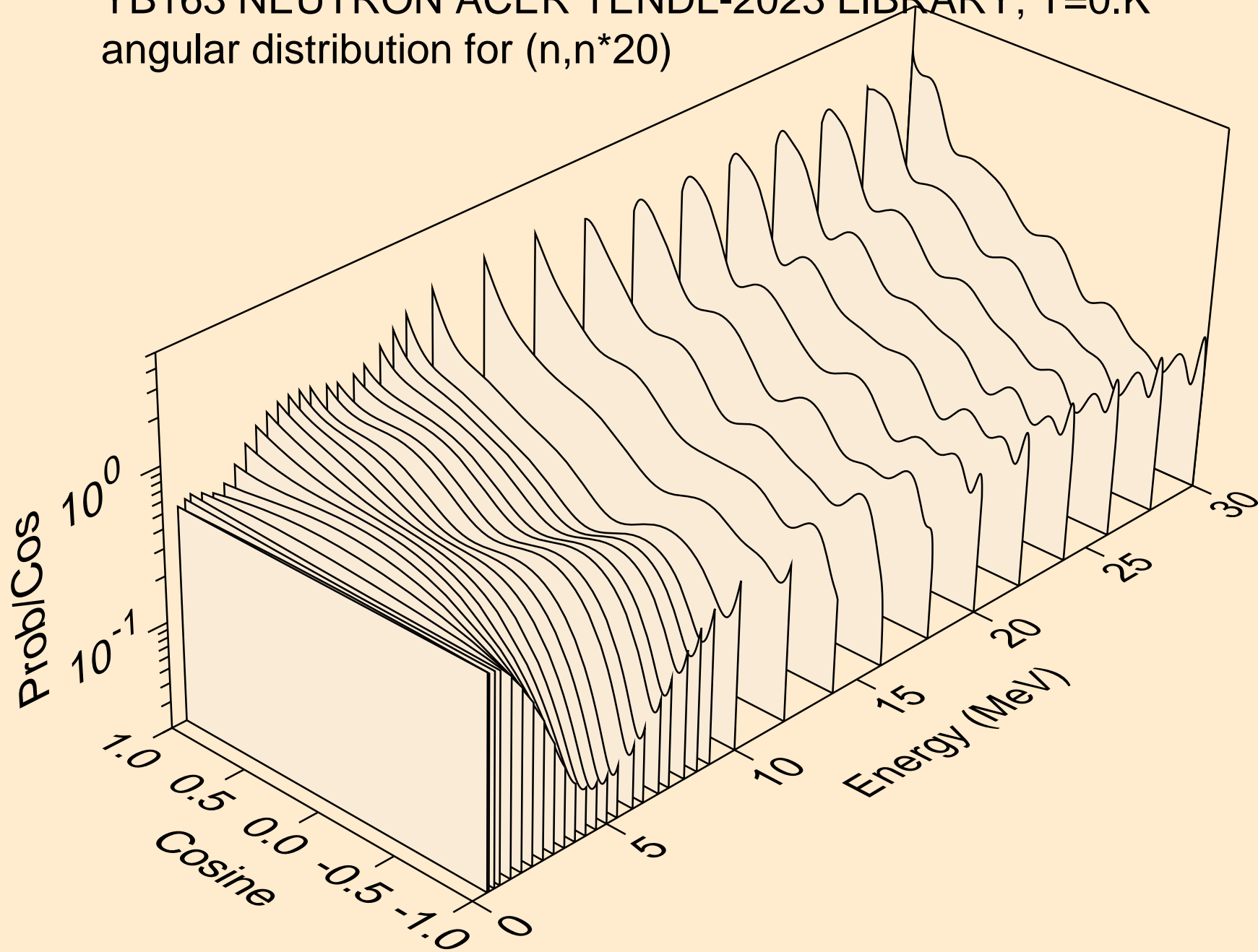
YB163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*18)



YB163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*19)

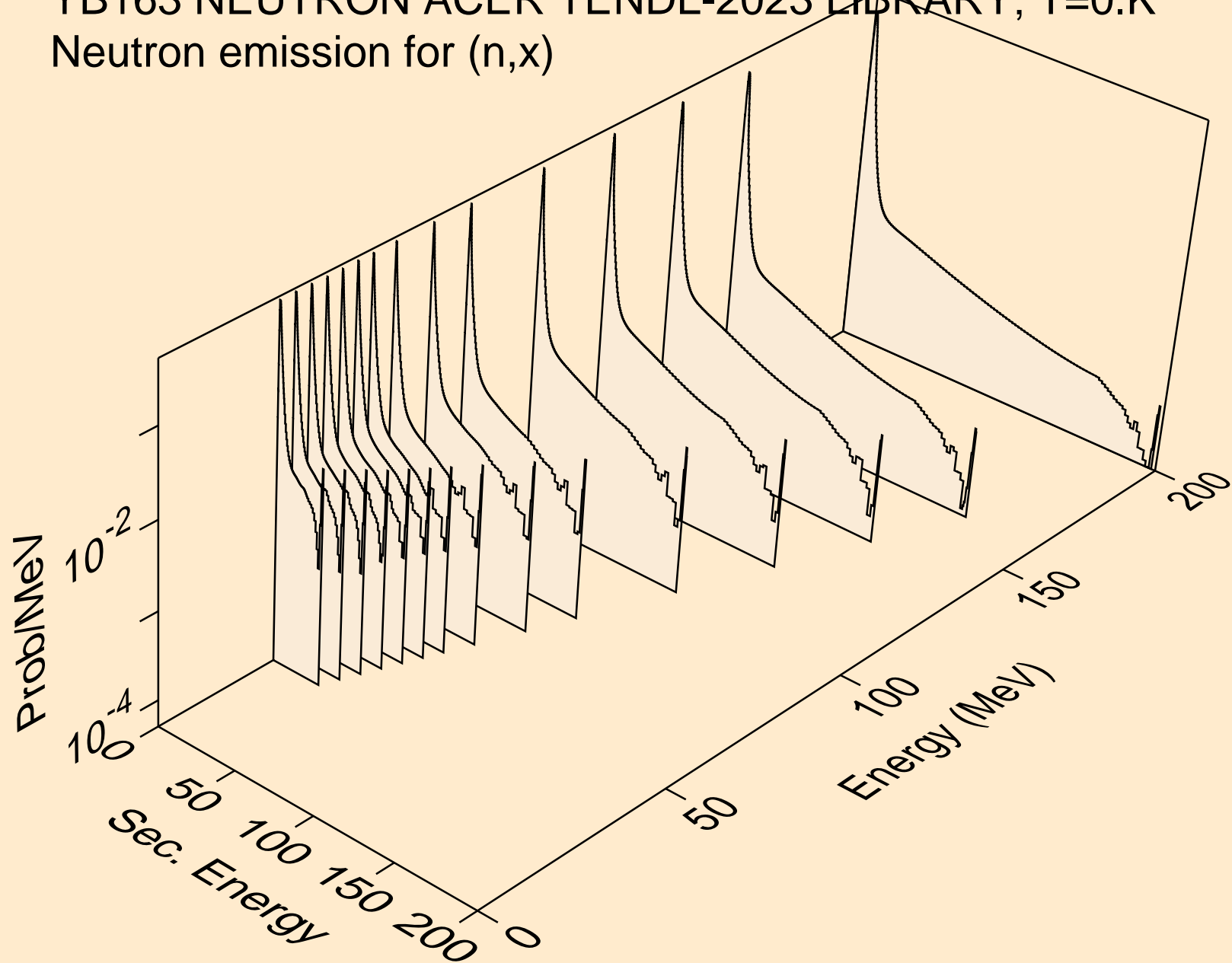


YB163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*20)

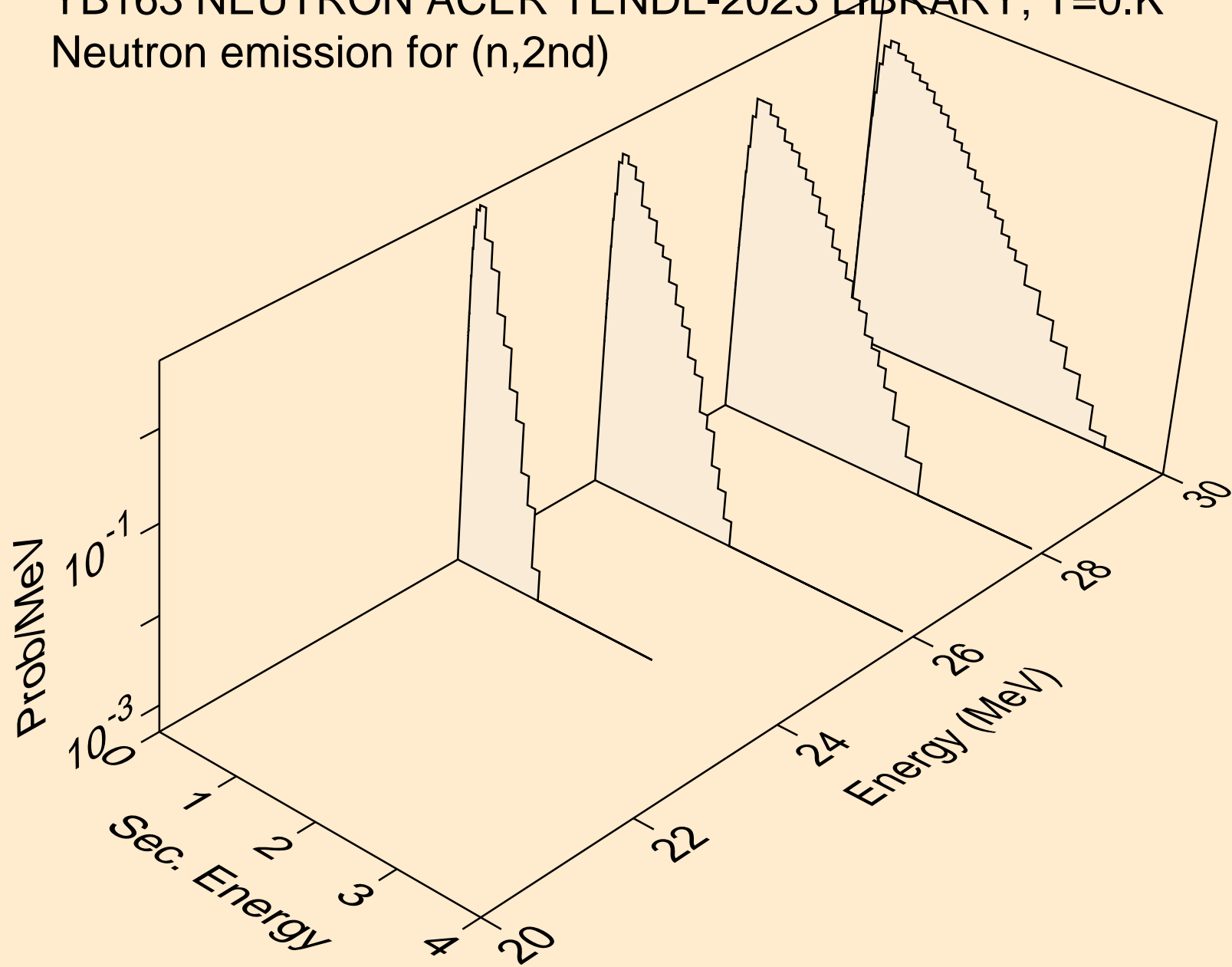




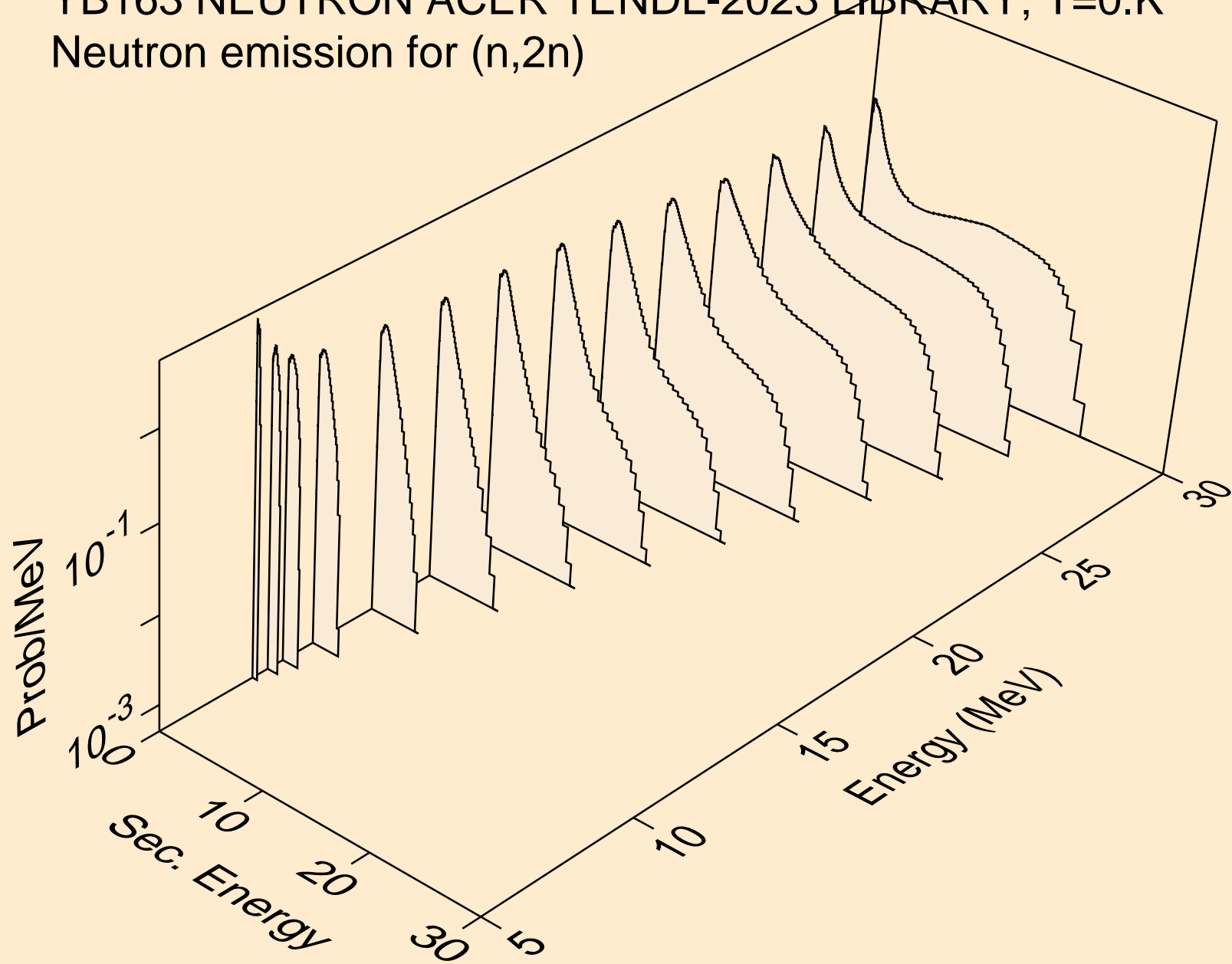
YB163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,x)



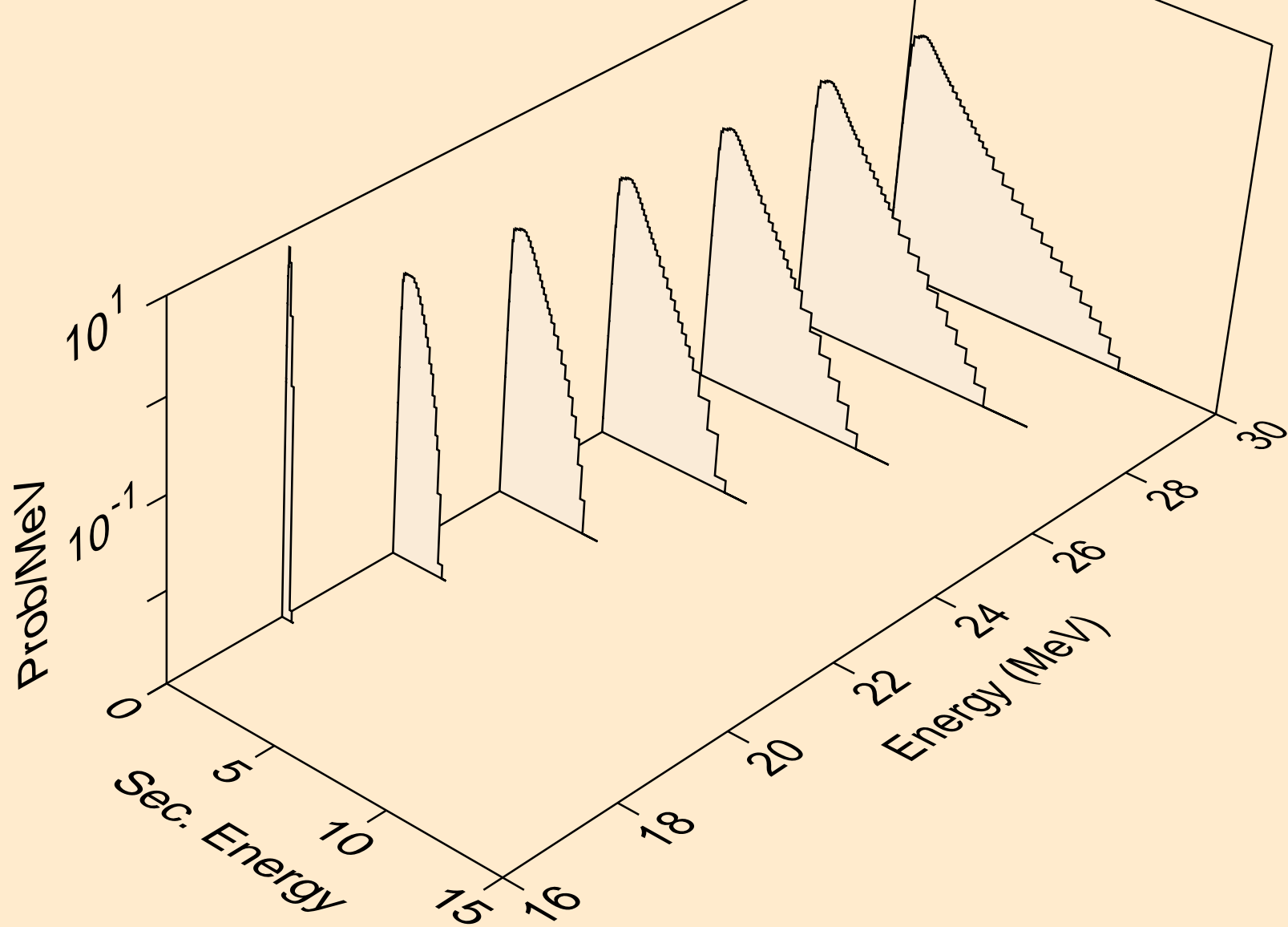
YB163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,2nd)



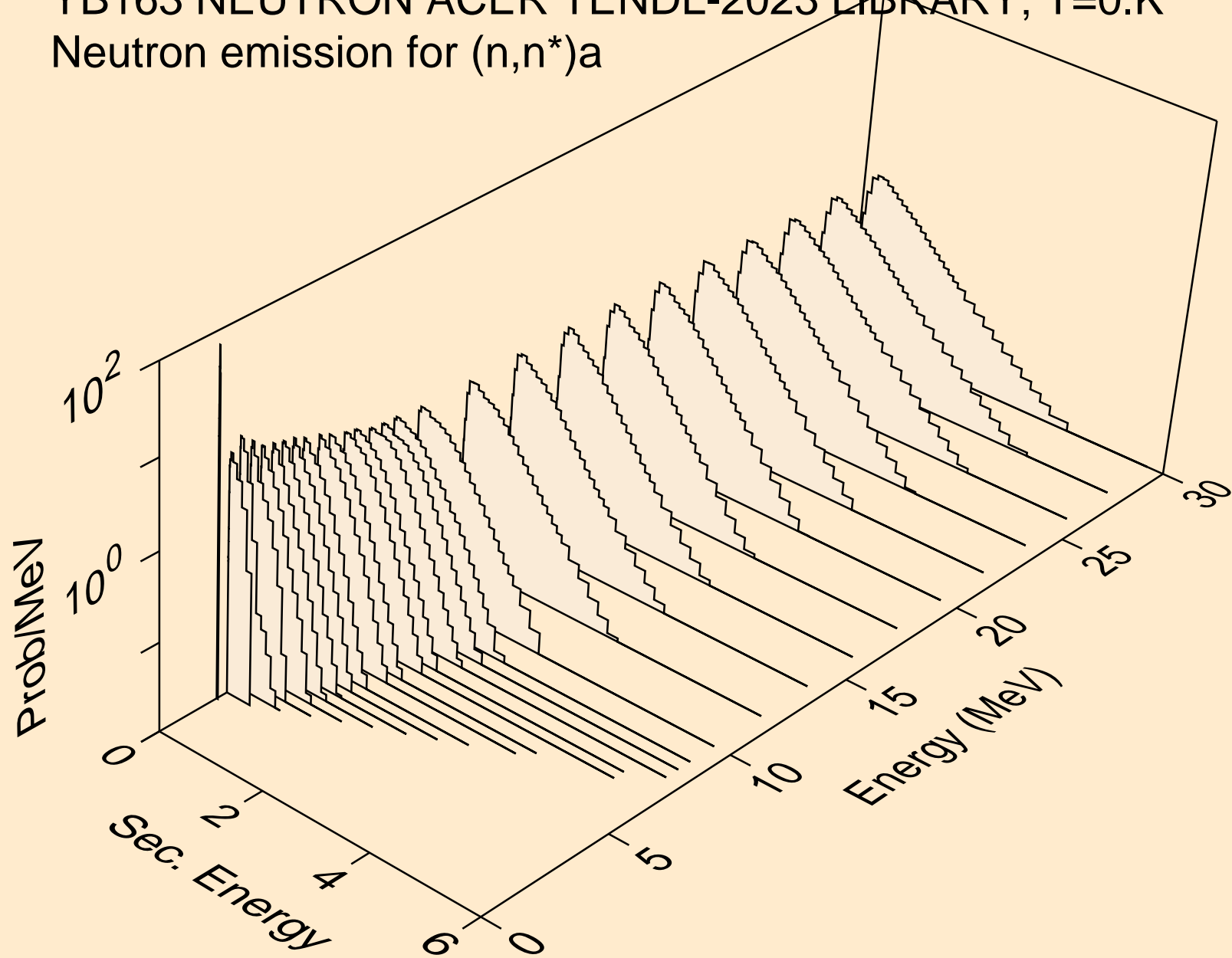
YB163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,2n)



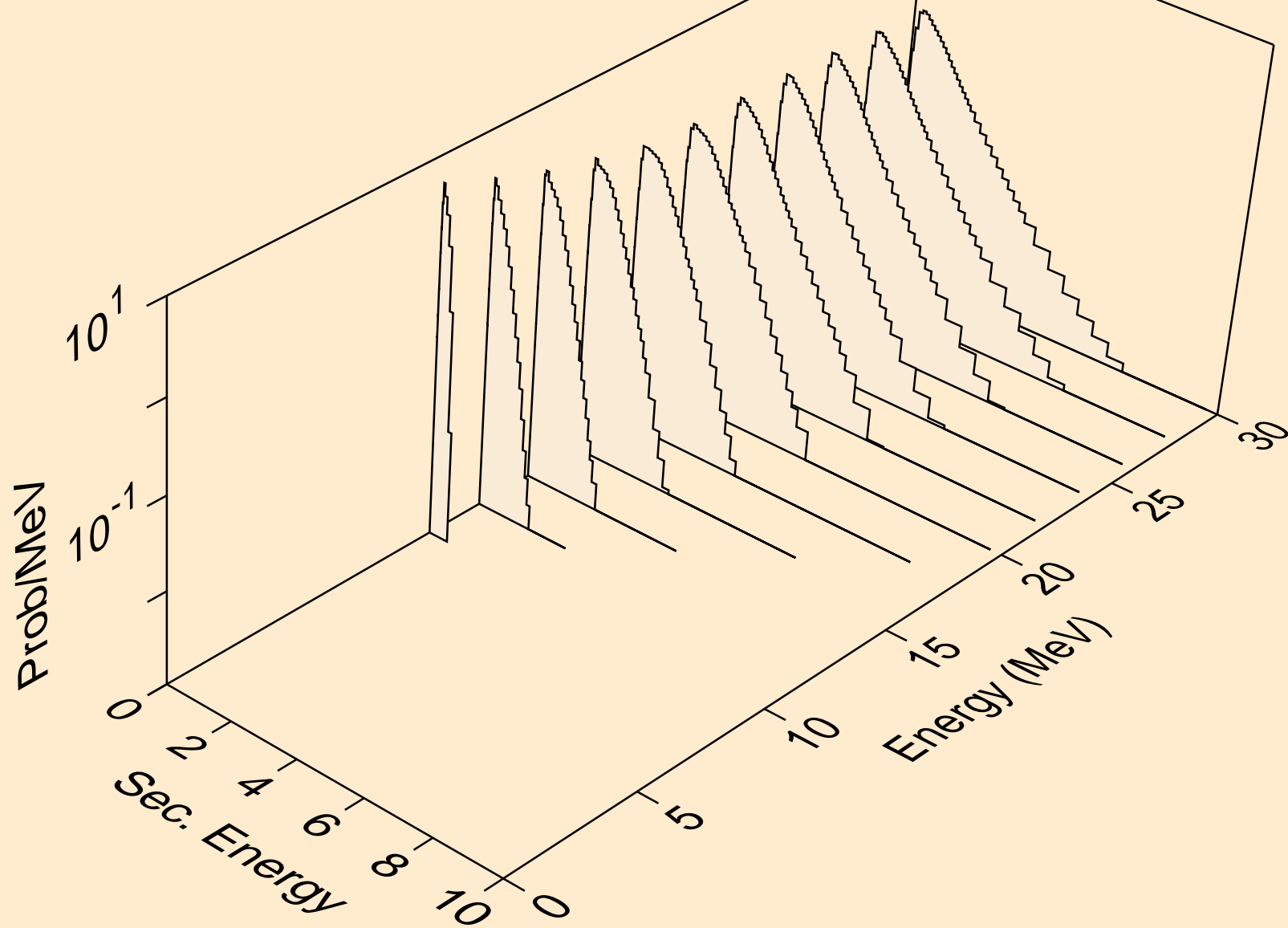
YB163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,3n)



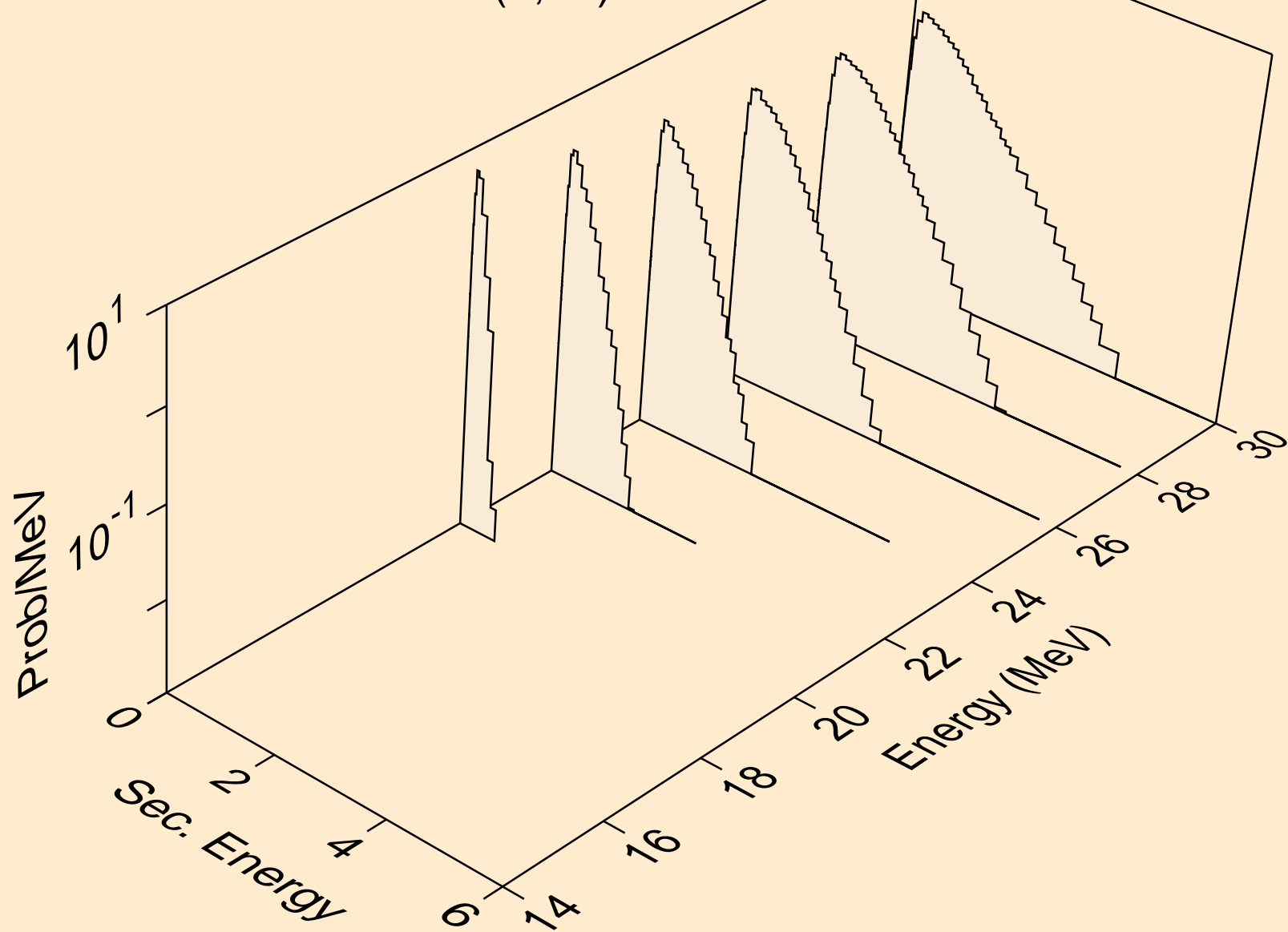
YB163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,n\*)a



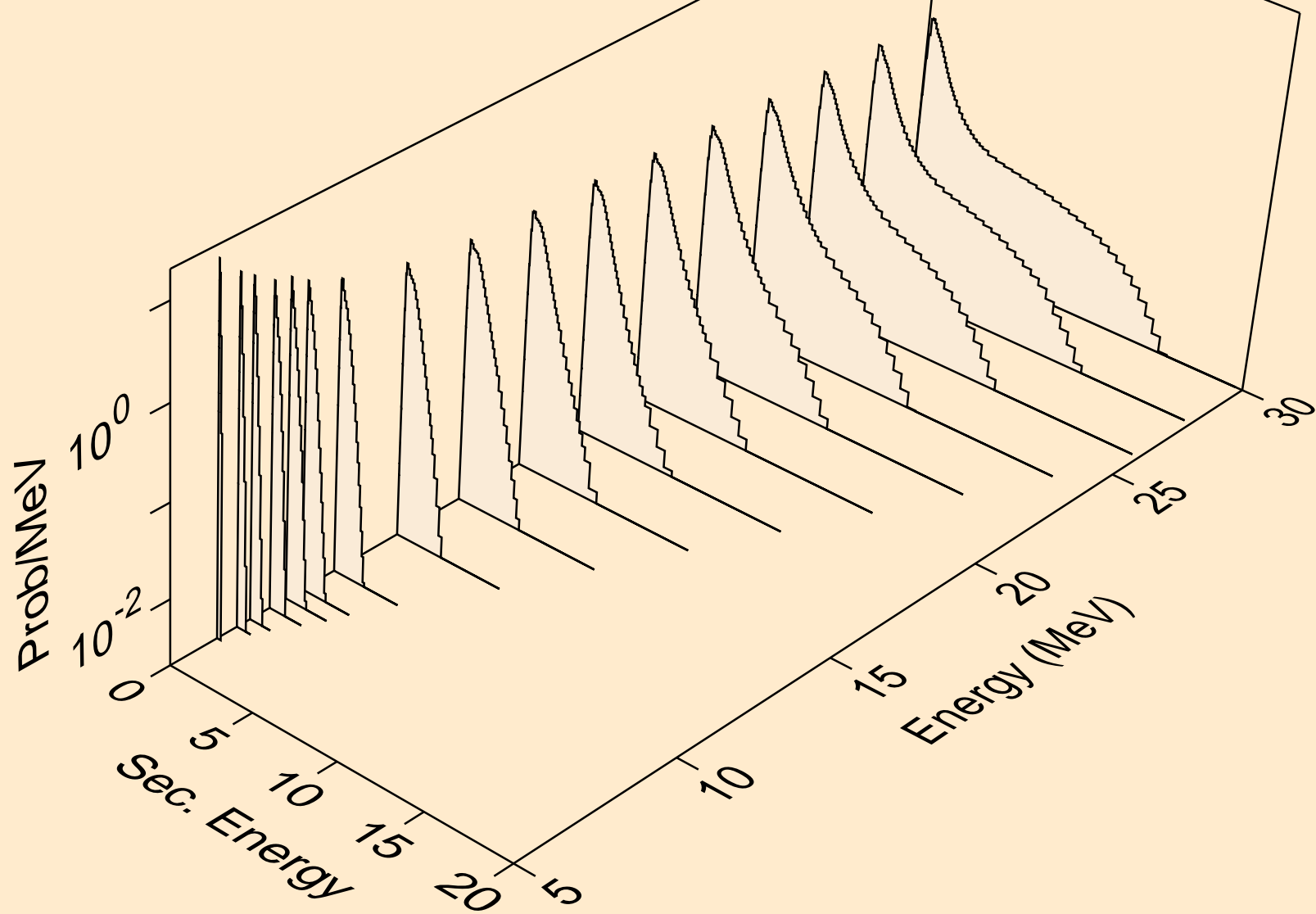
YB163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,2n)a



YB163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,3n)a

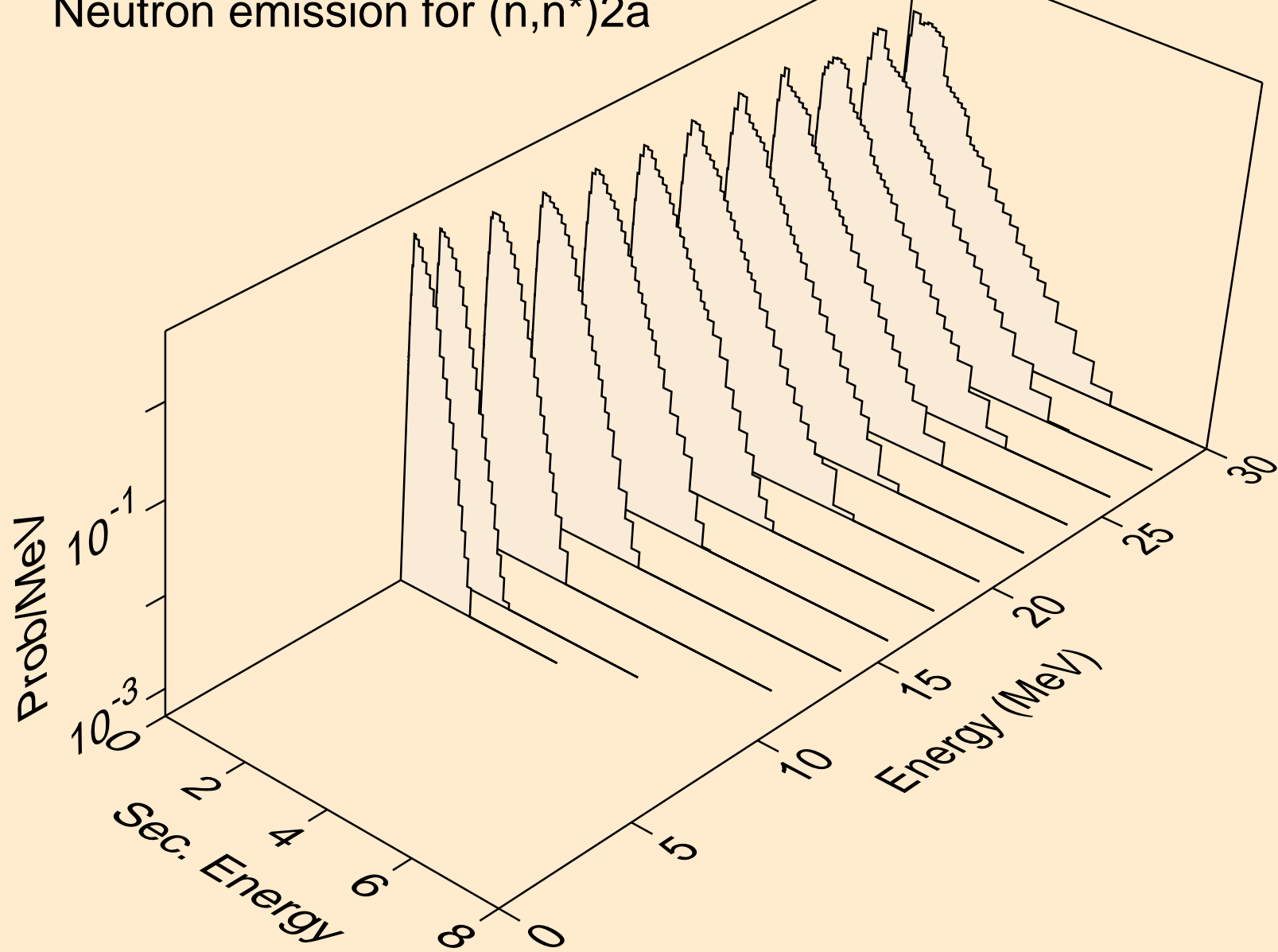


YB163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,n\*)p

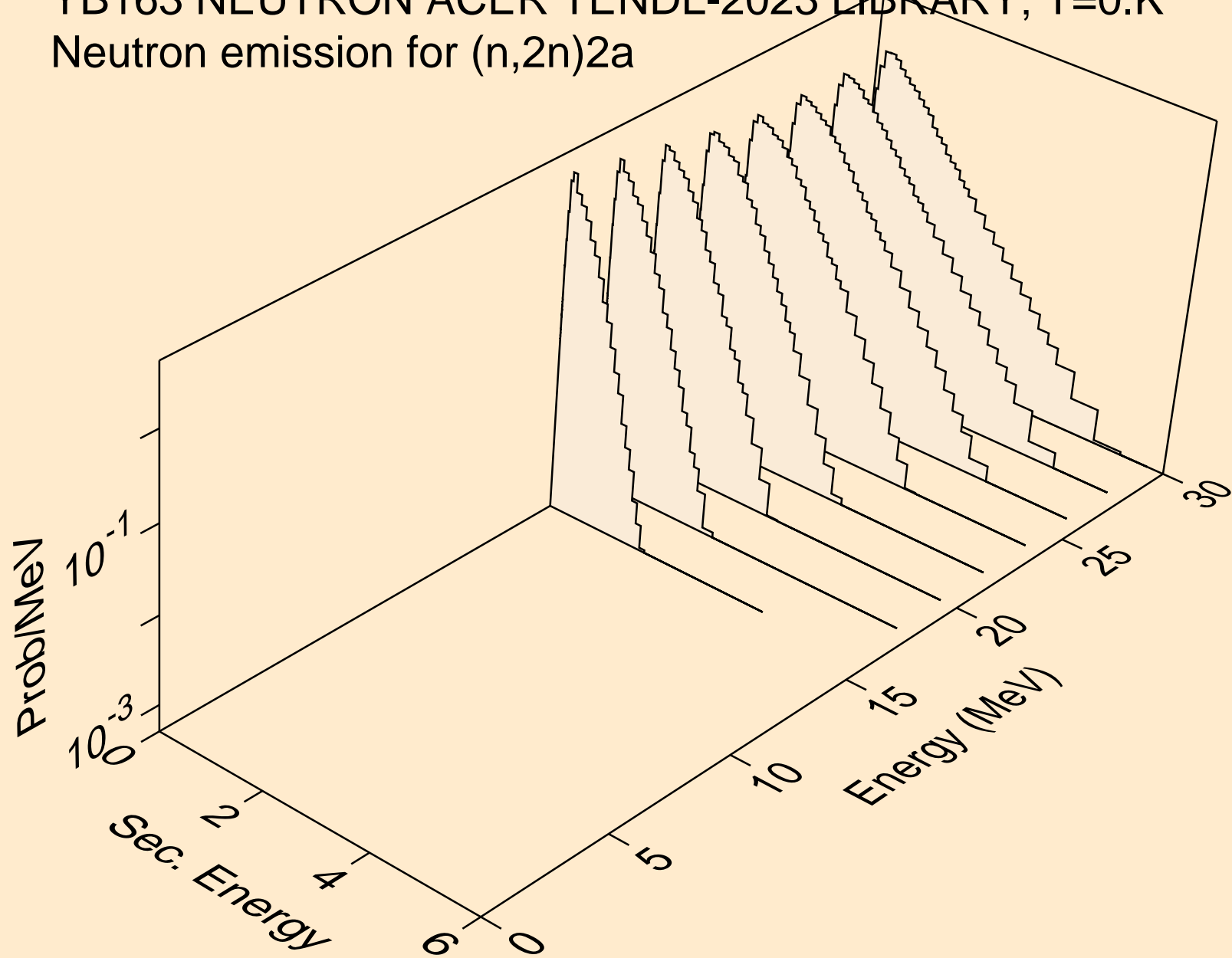




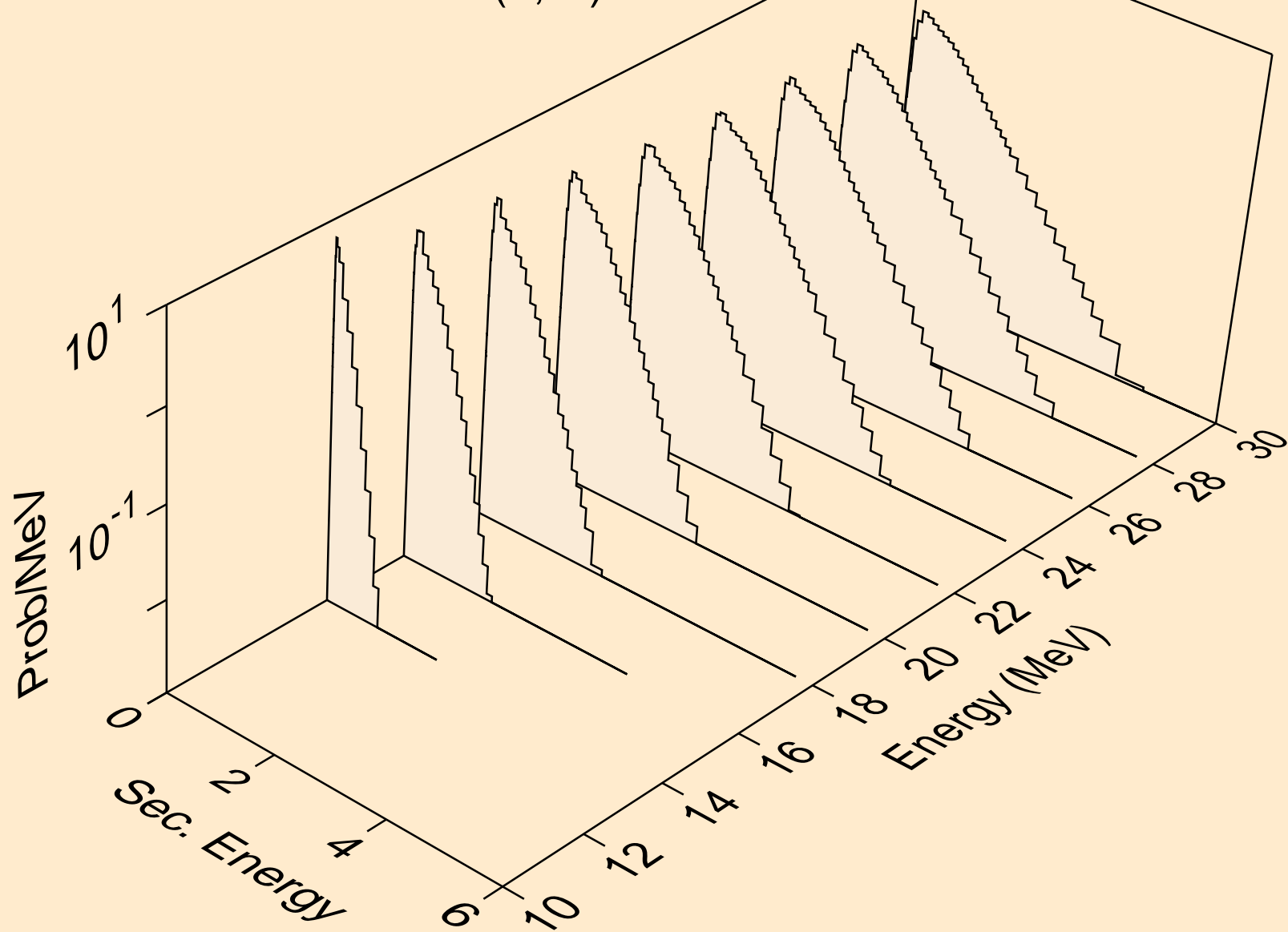
YB163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,n\*)2a



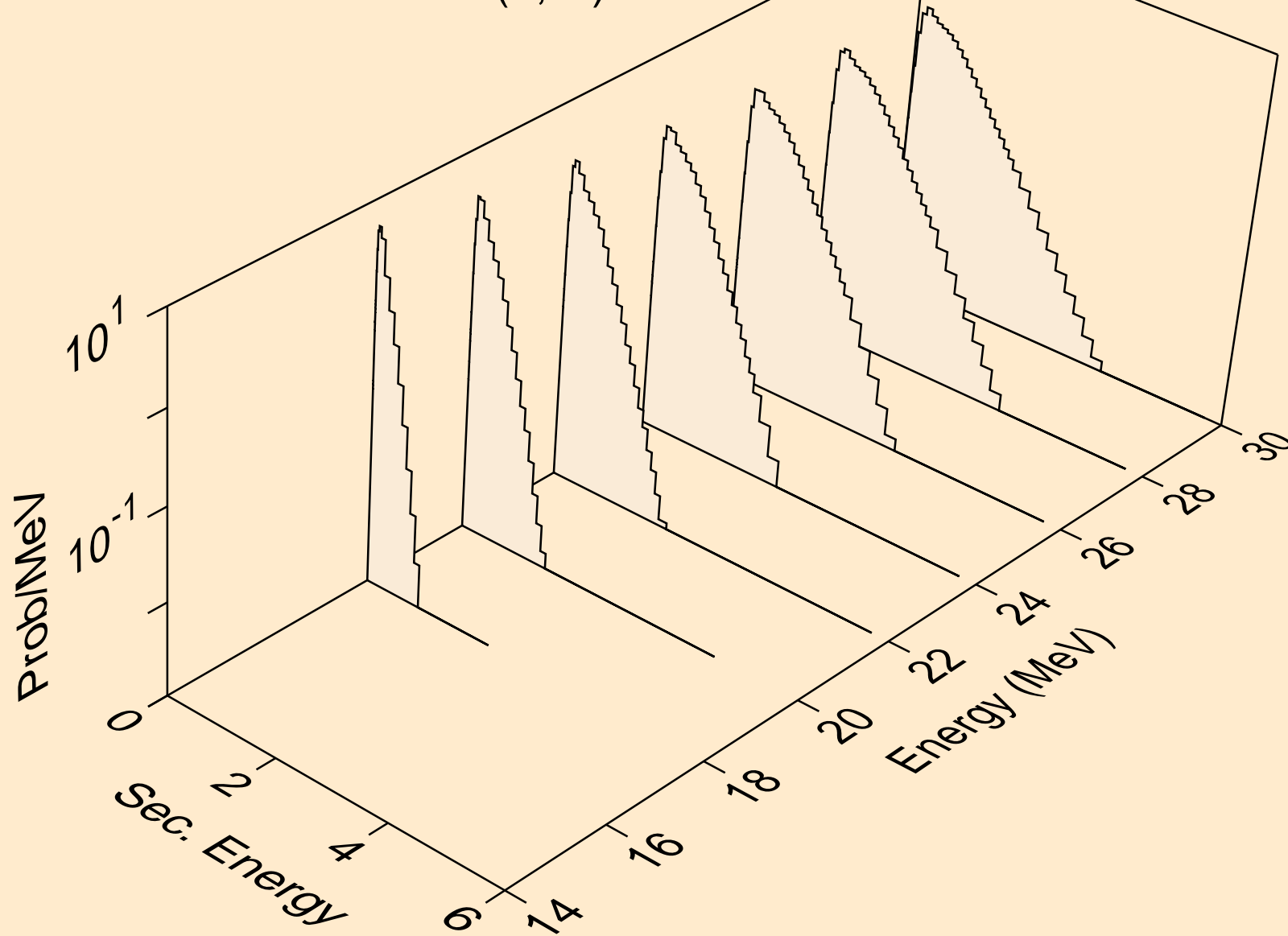
YB163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,2n)2a



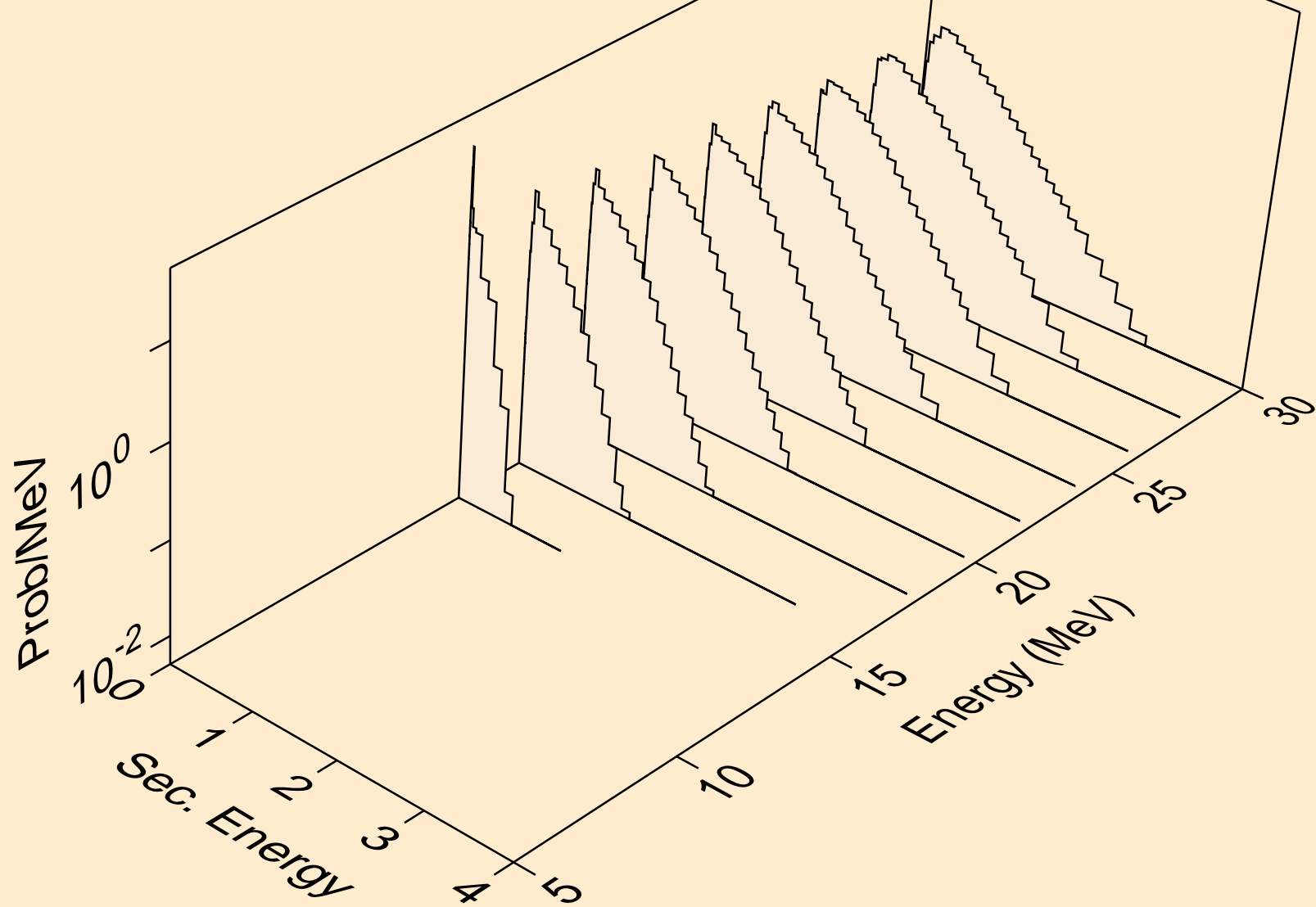
YB163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,n\*)d



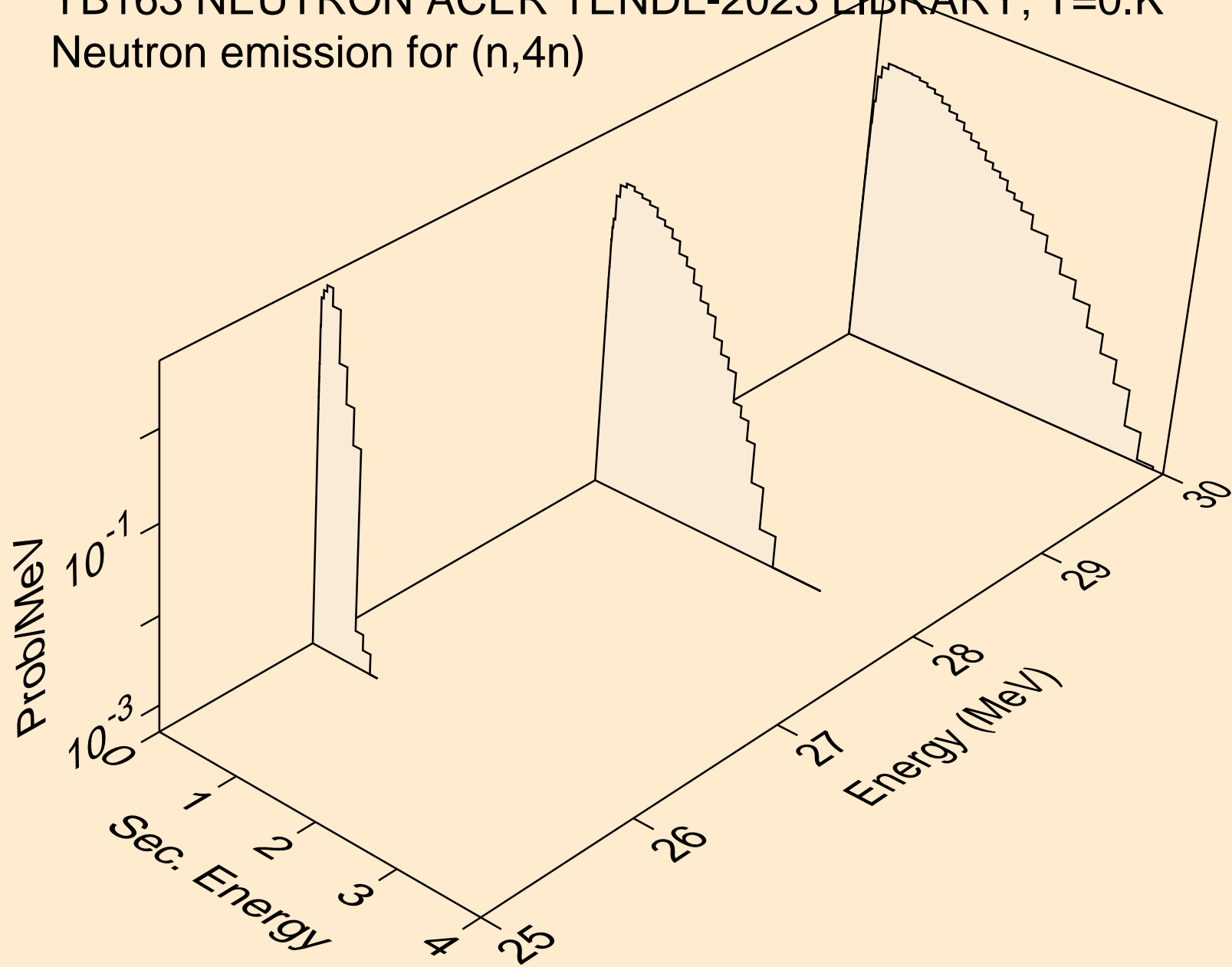
YB163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,n\*)t



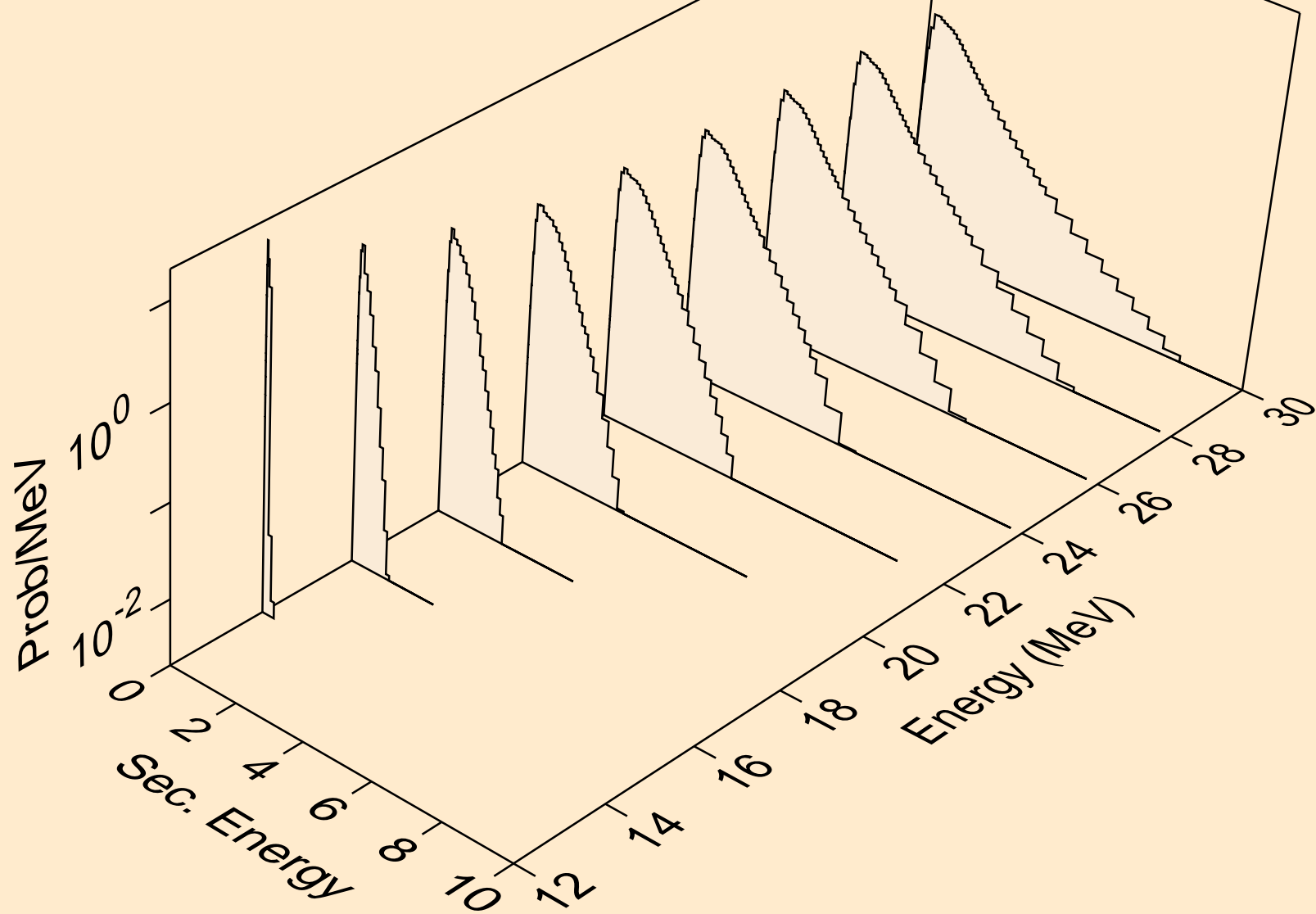
YB163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,n\*)he3



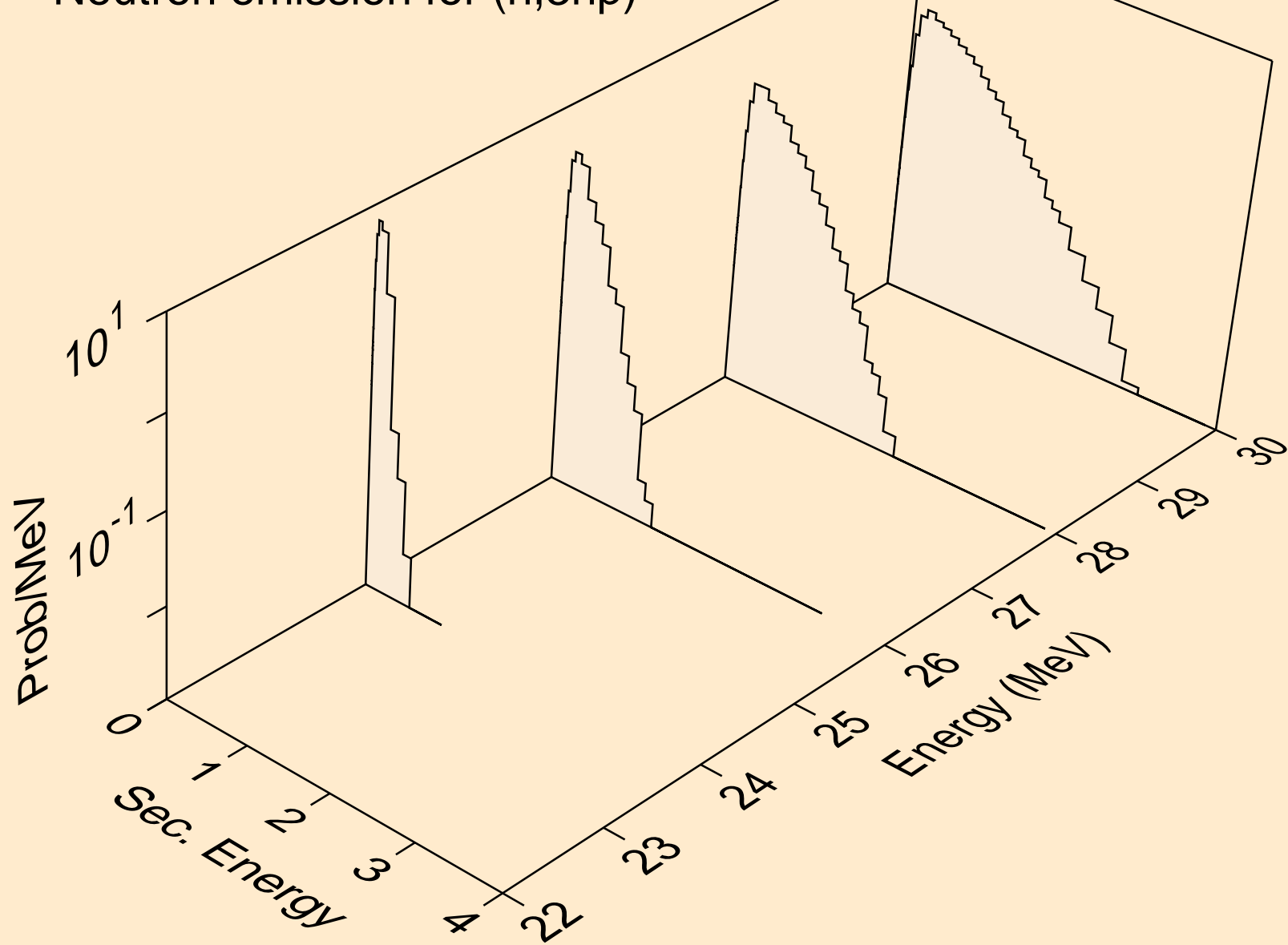
YB163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,4n)



YB163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,2np)

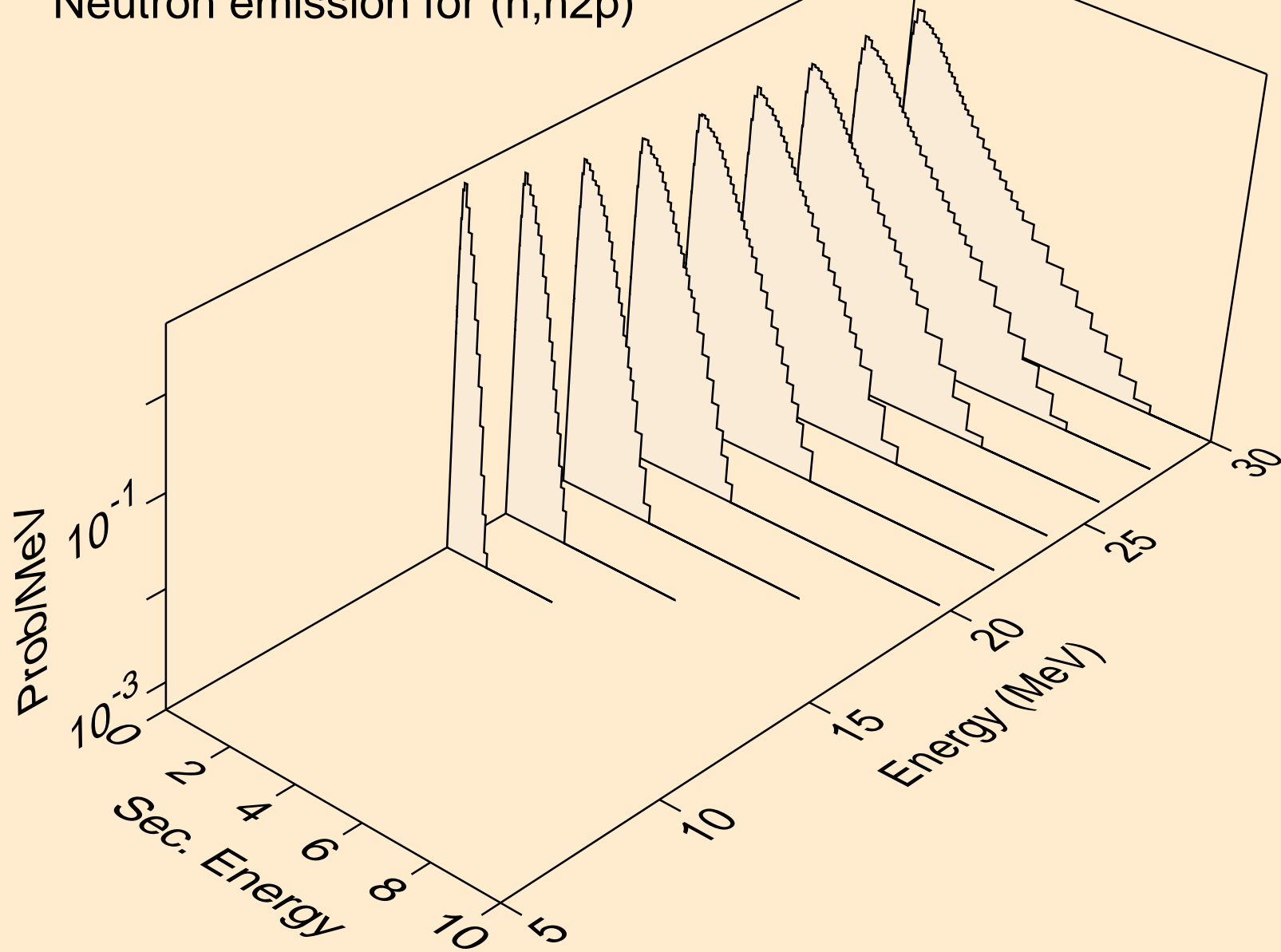


YB163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,3np)

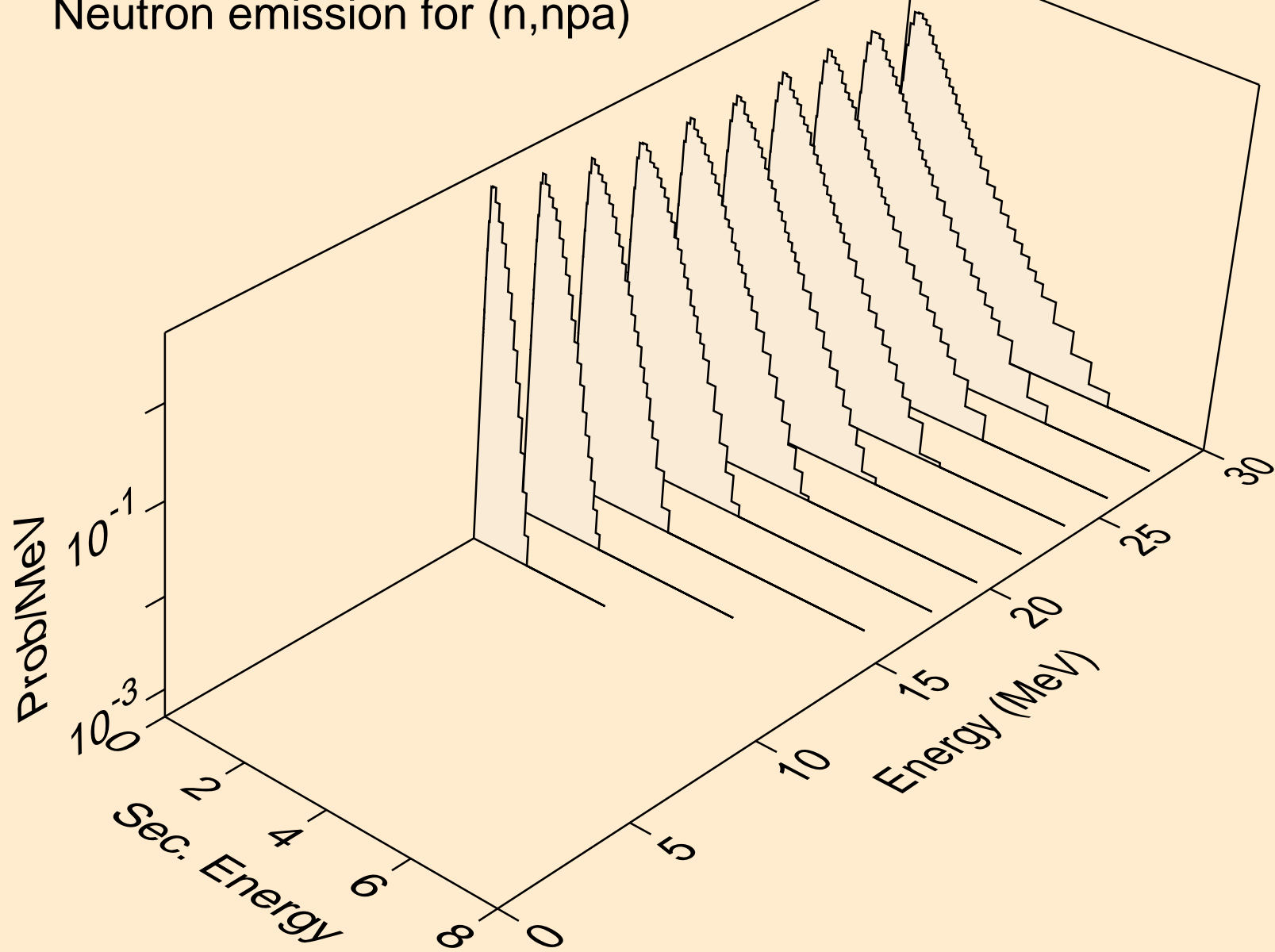




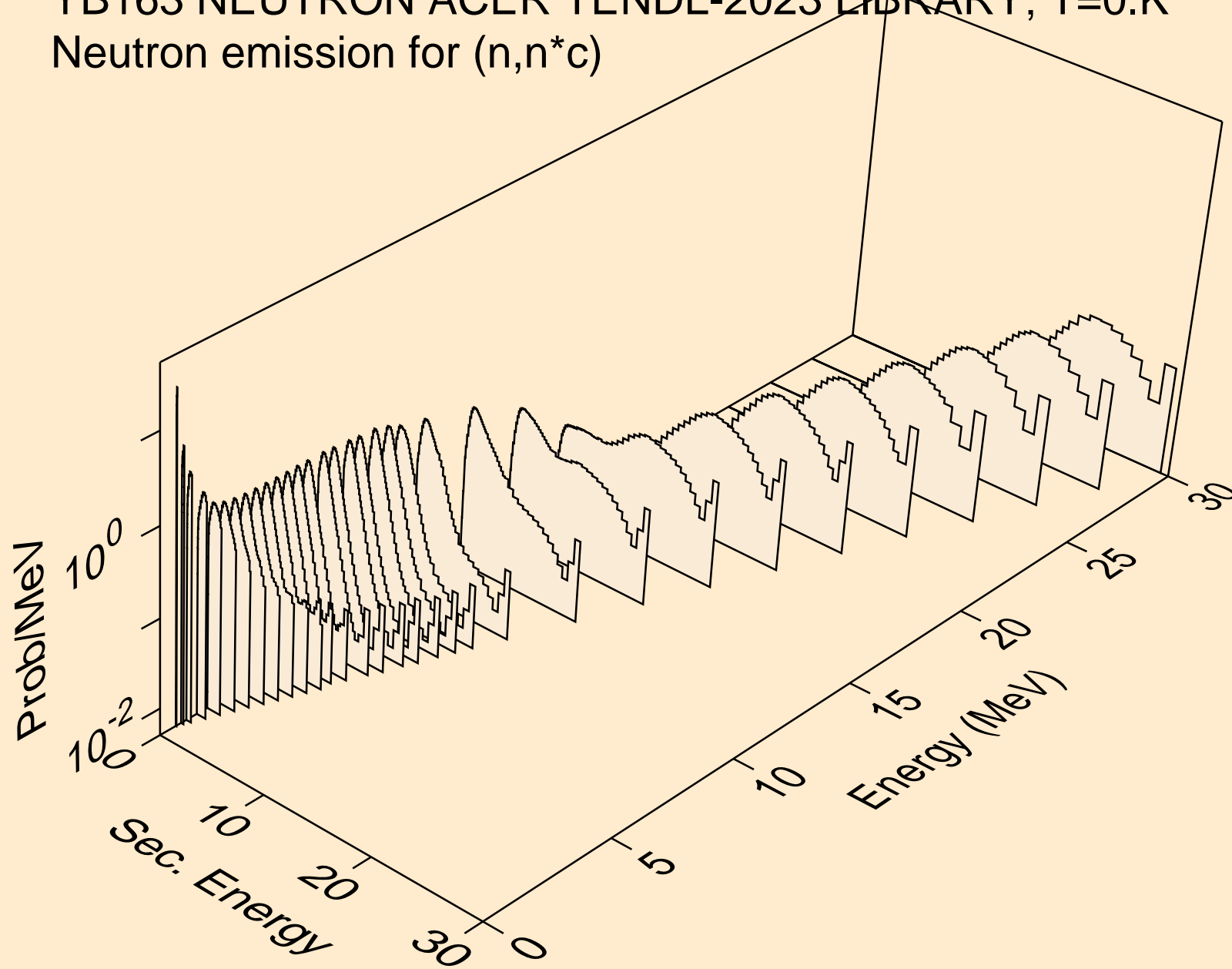
YB163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,n2p)



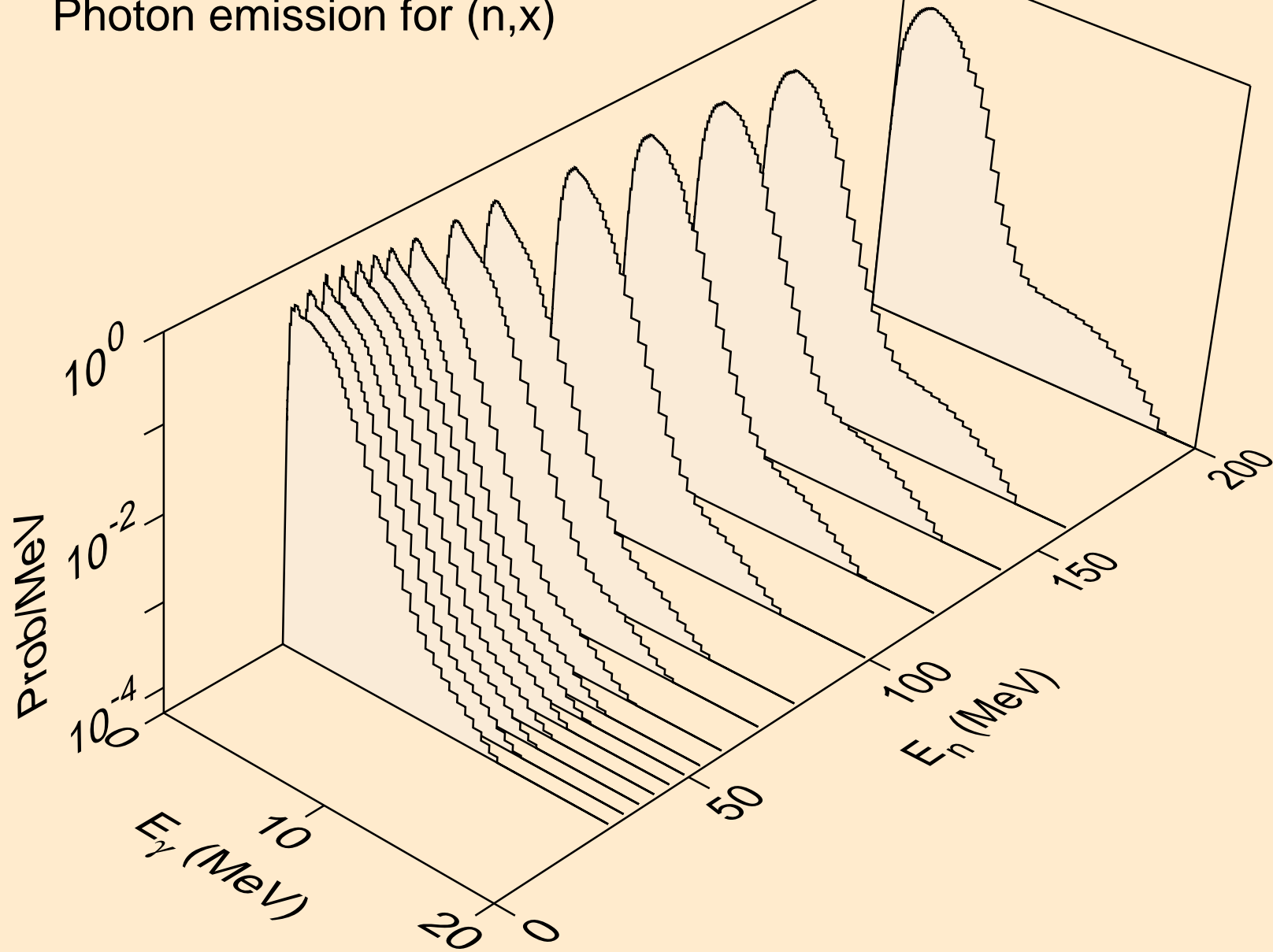
YB163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,npa)



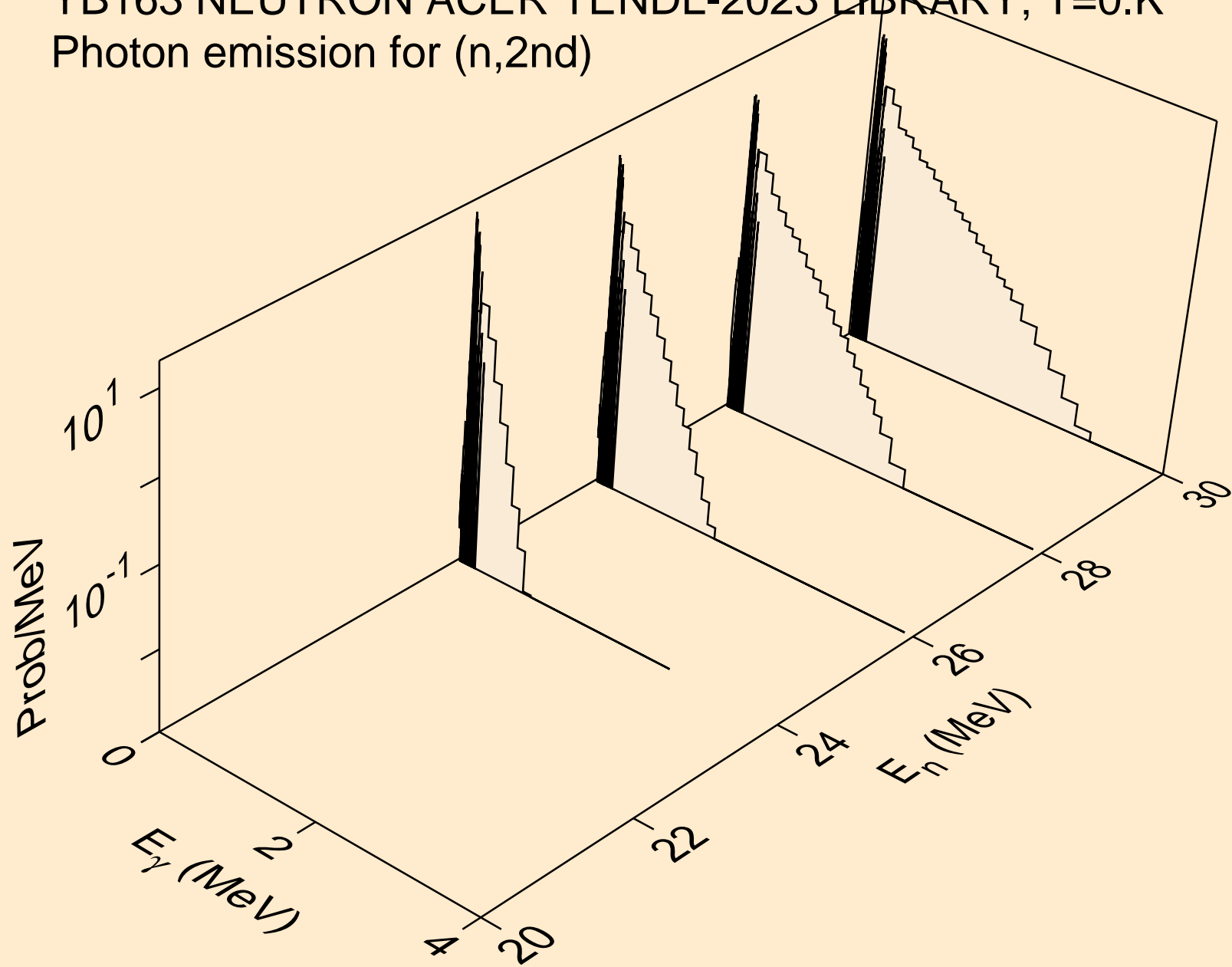
YB163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,n\*c)



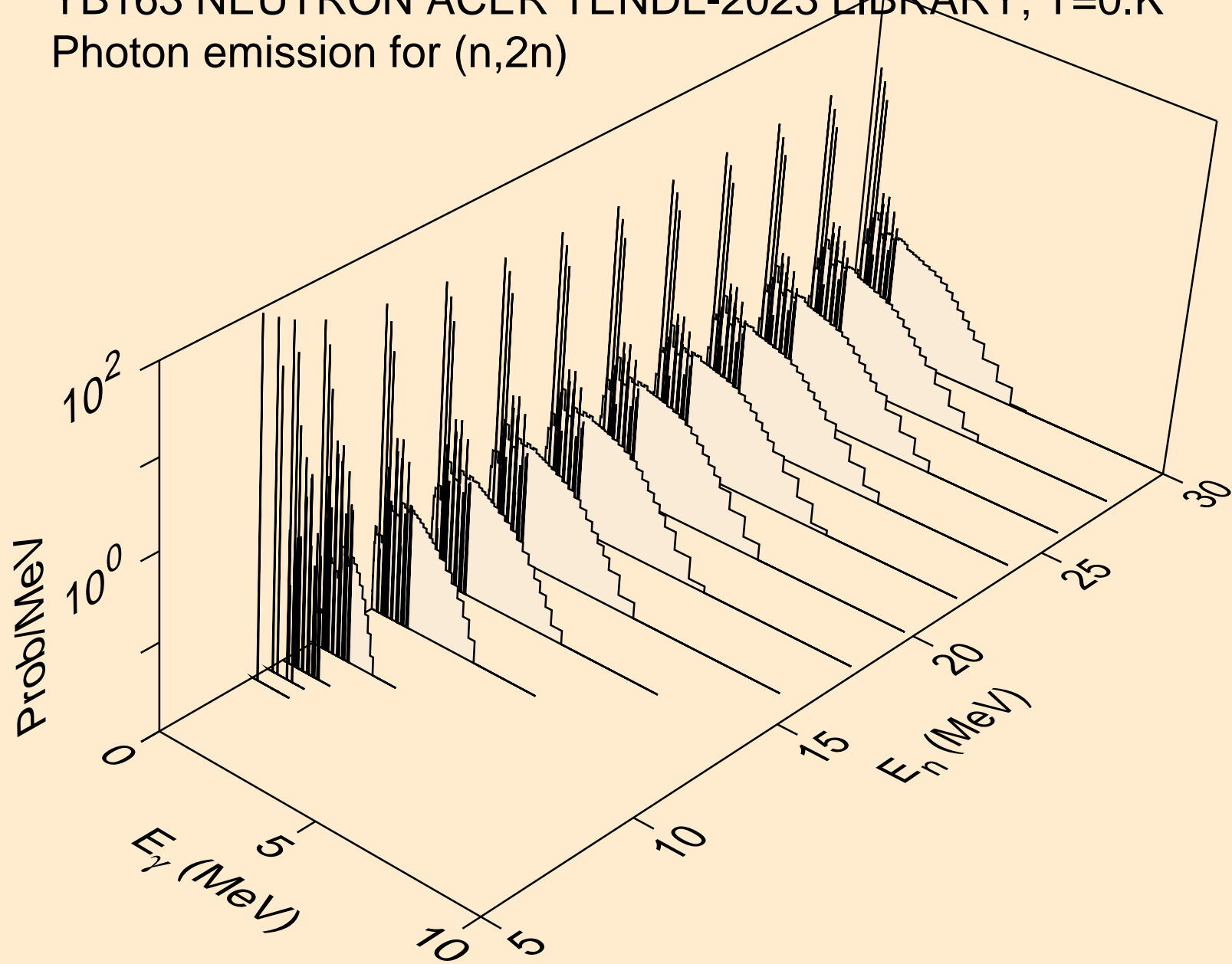
YB163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,x)



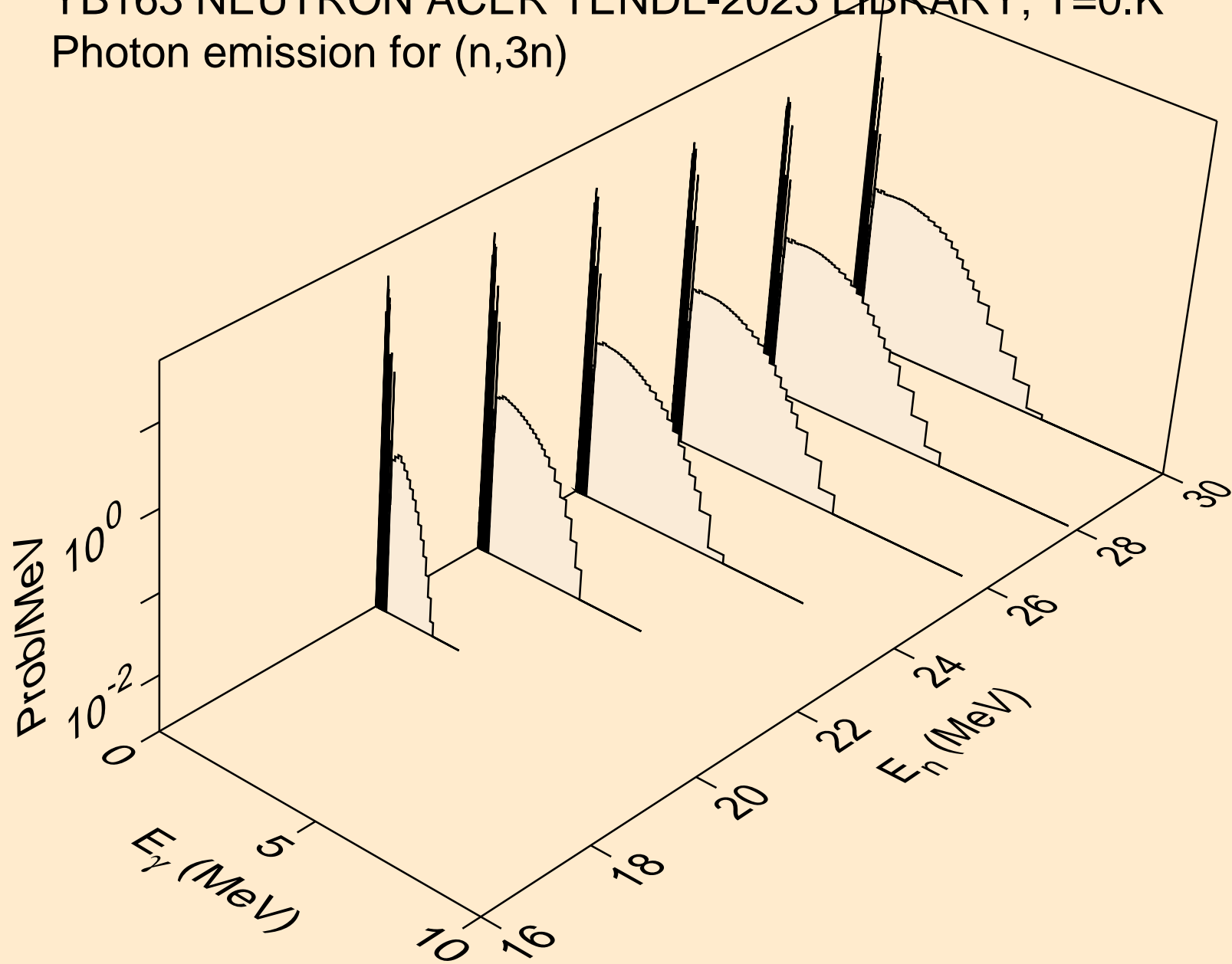
YB163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2nd)



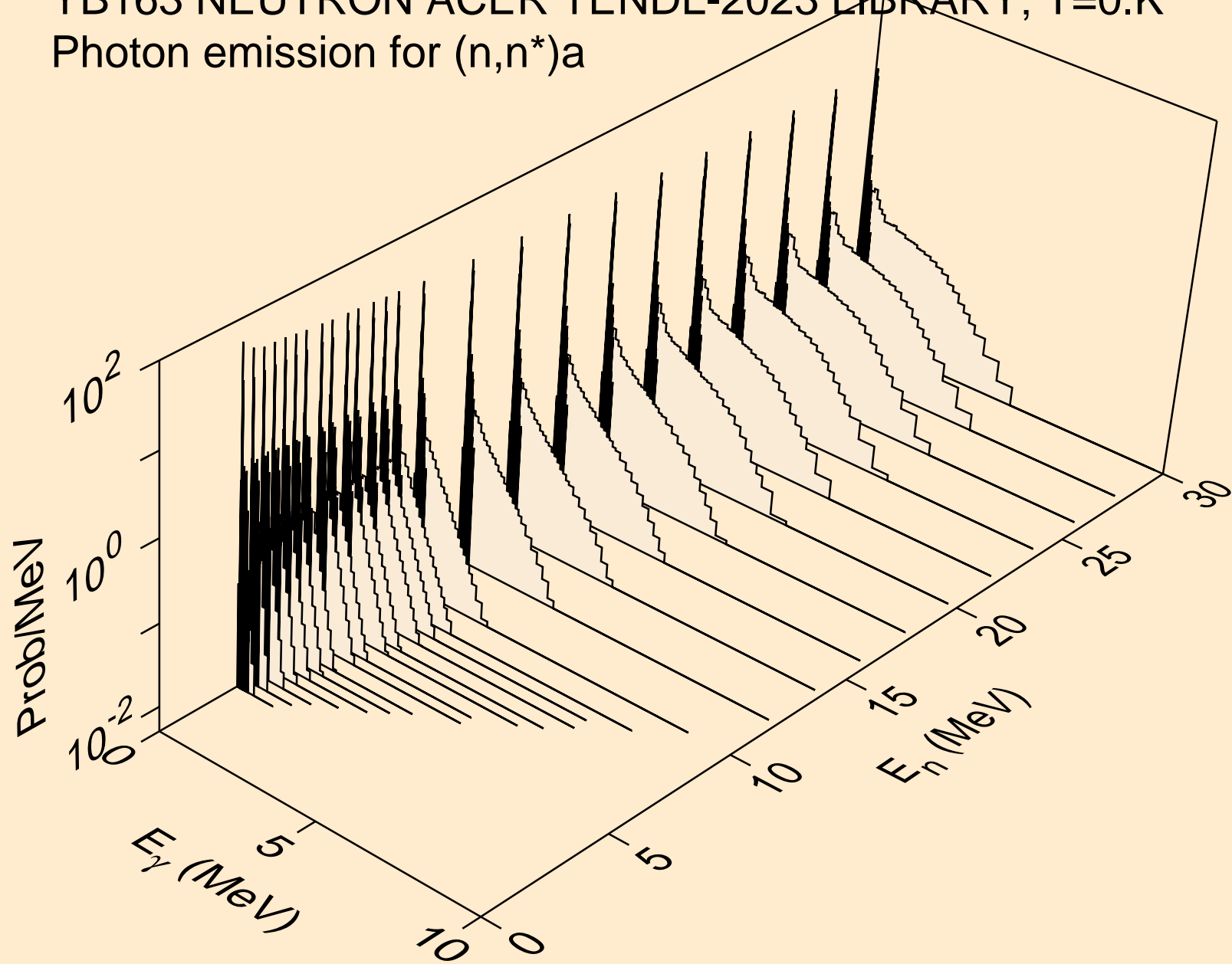
YB163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2n)



YB163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,3n)

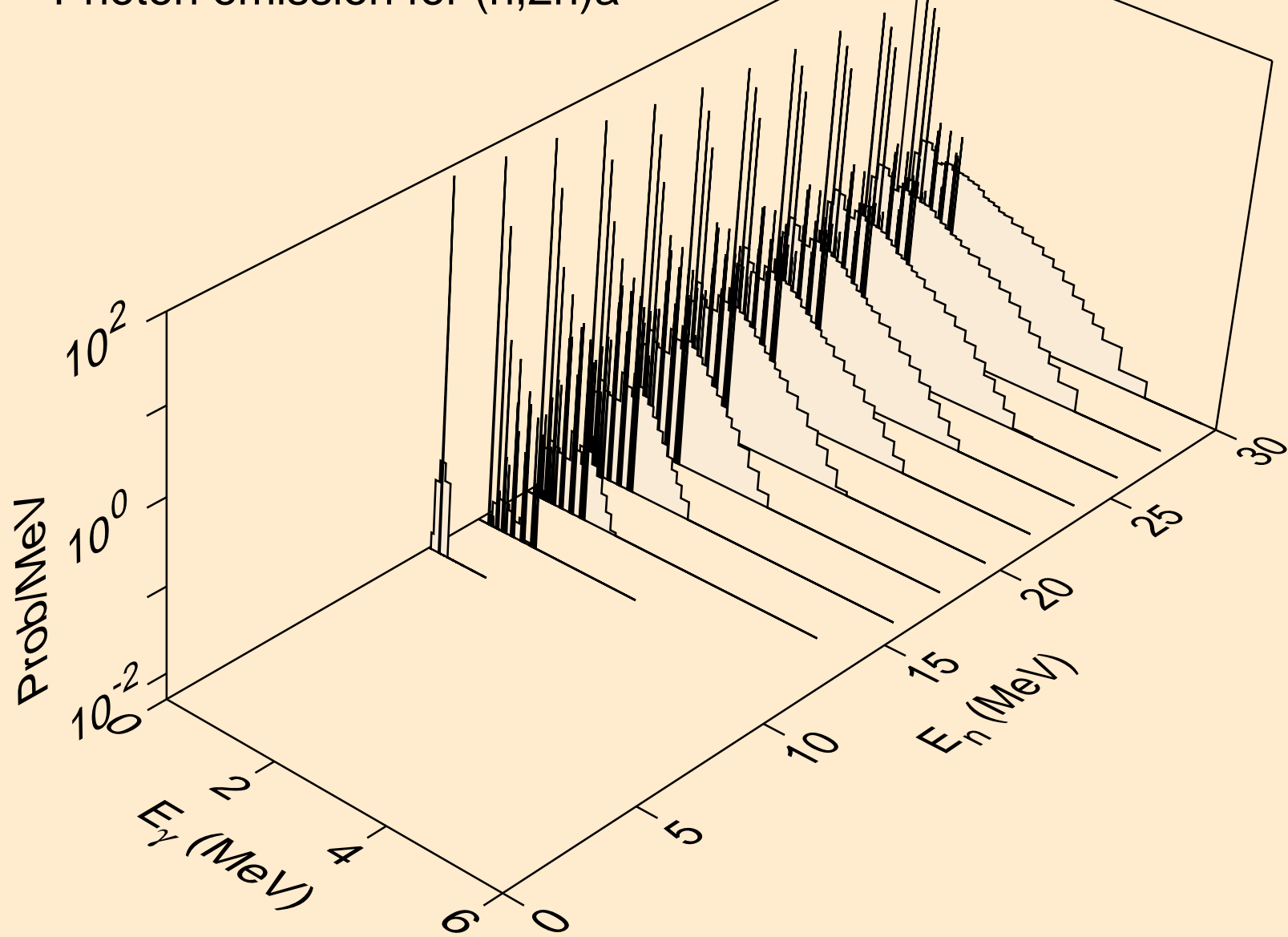


YB163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)a

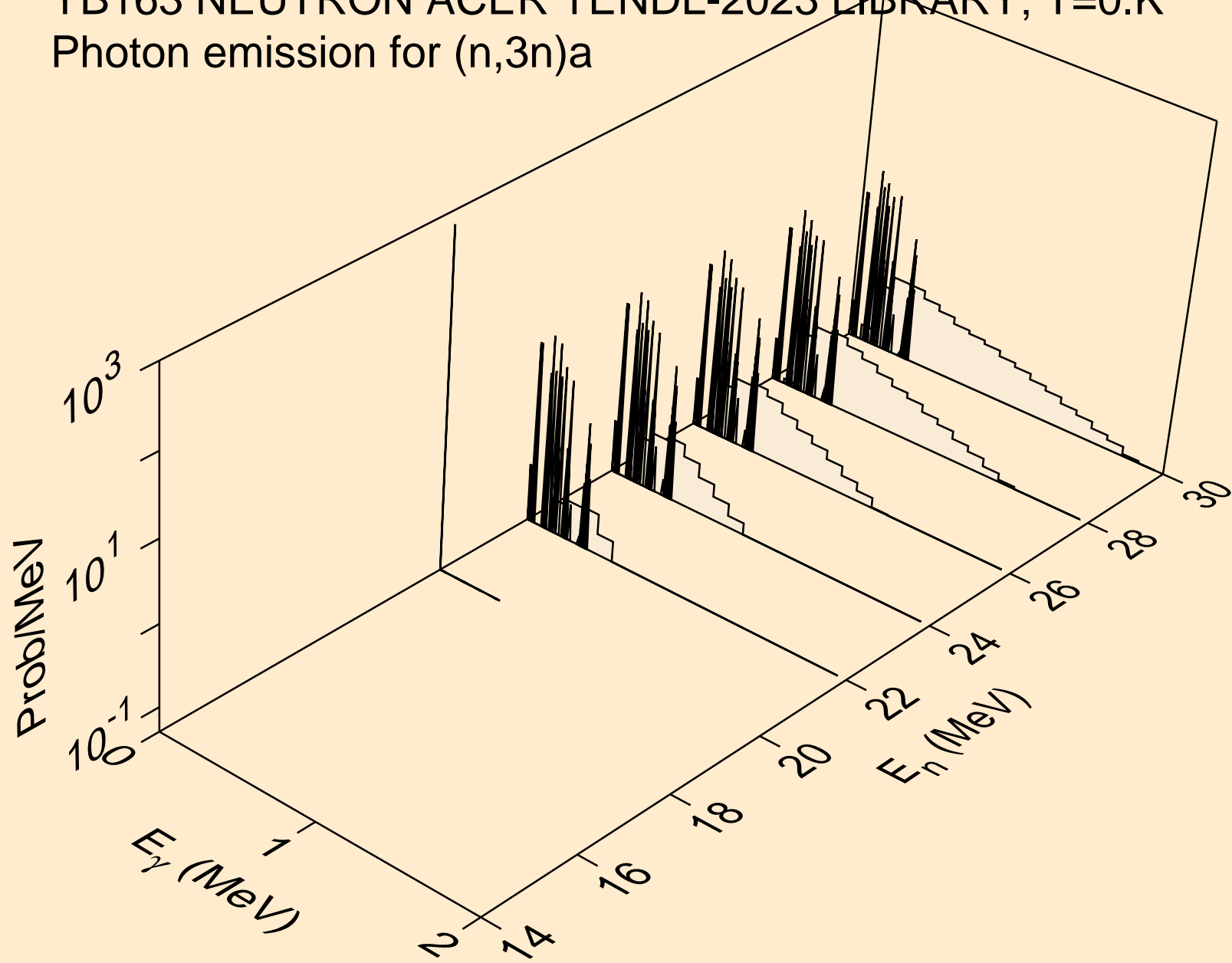




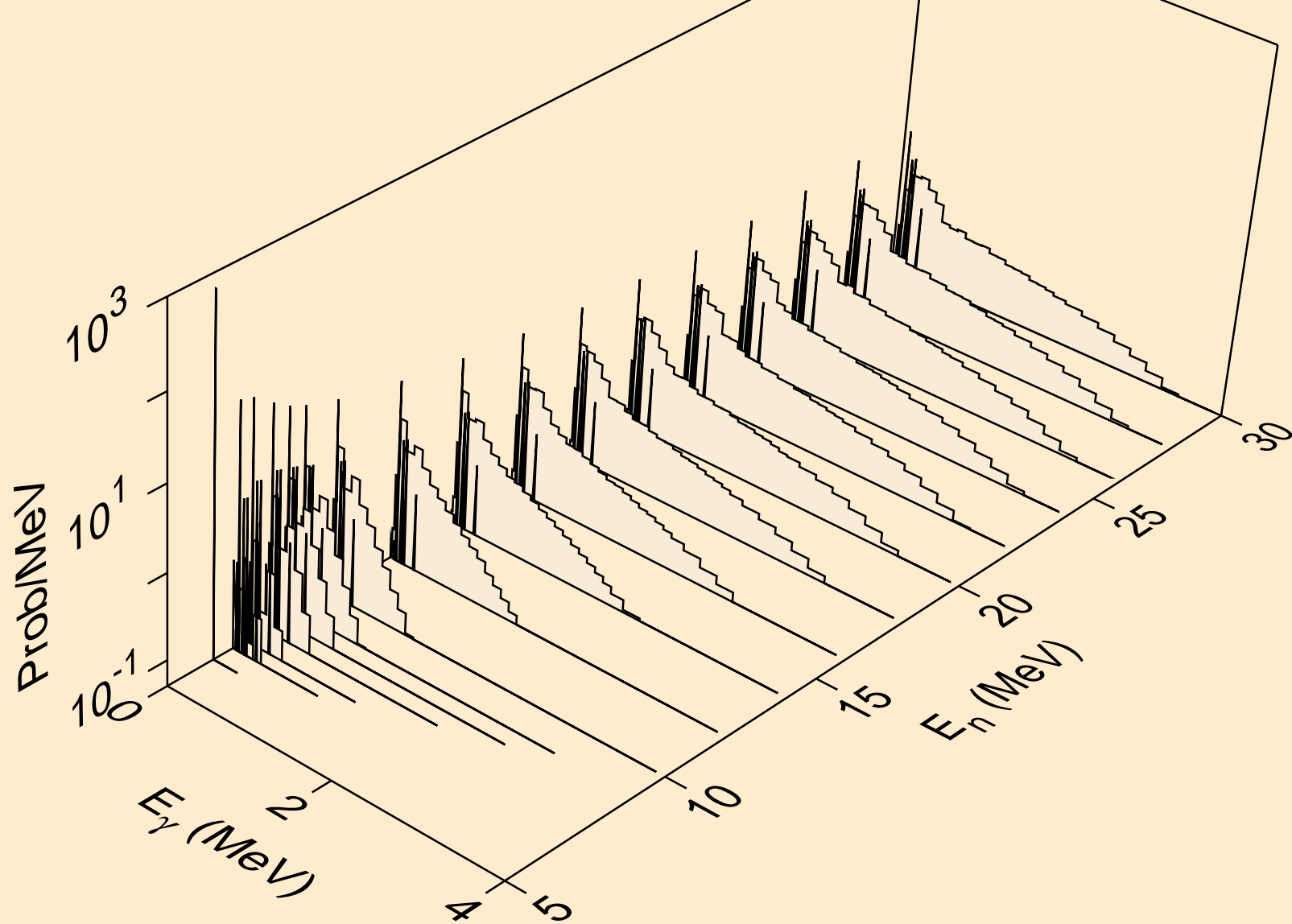
YB163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2n)a



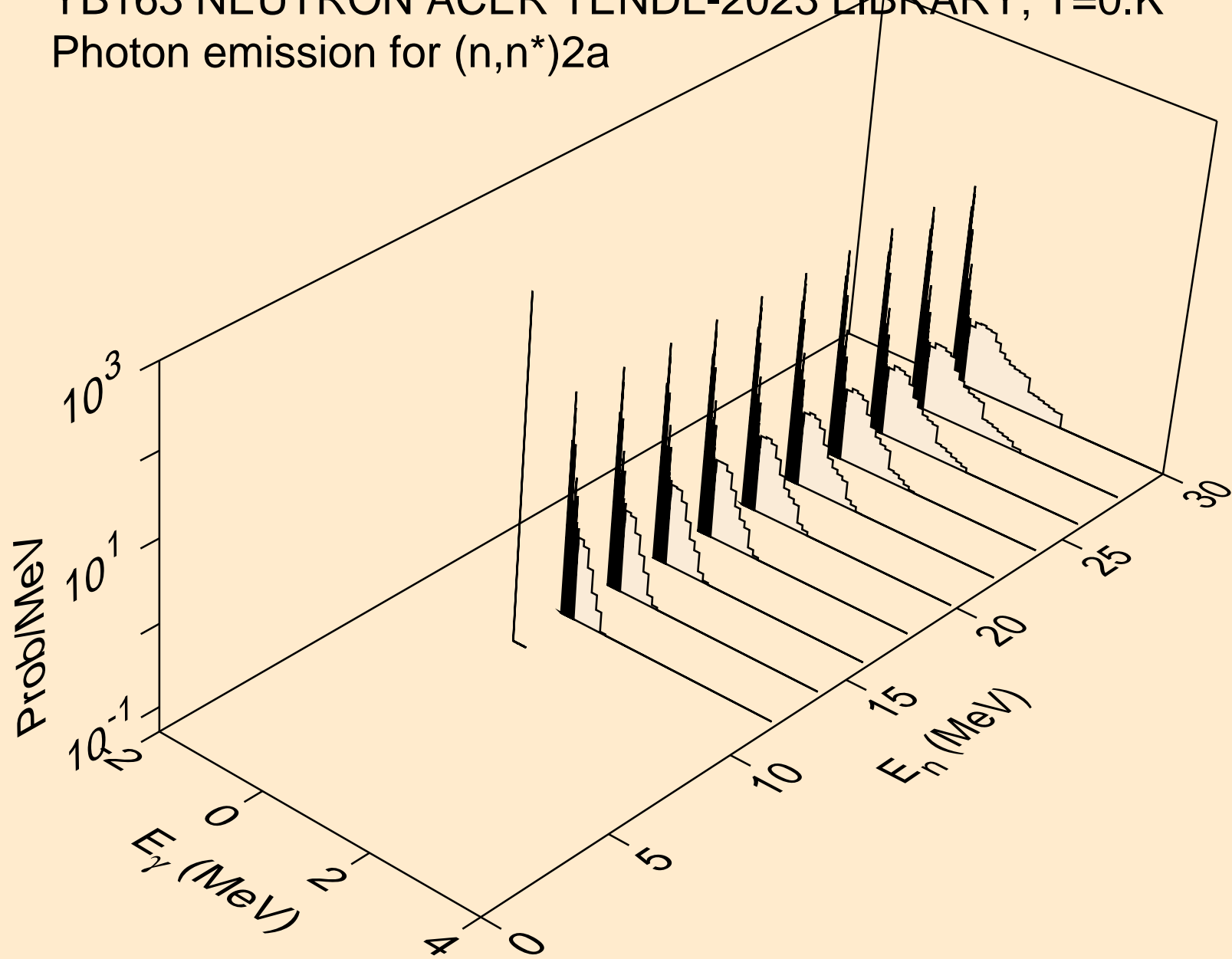
YB163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,3n)a



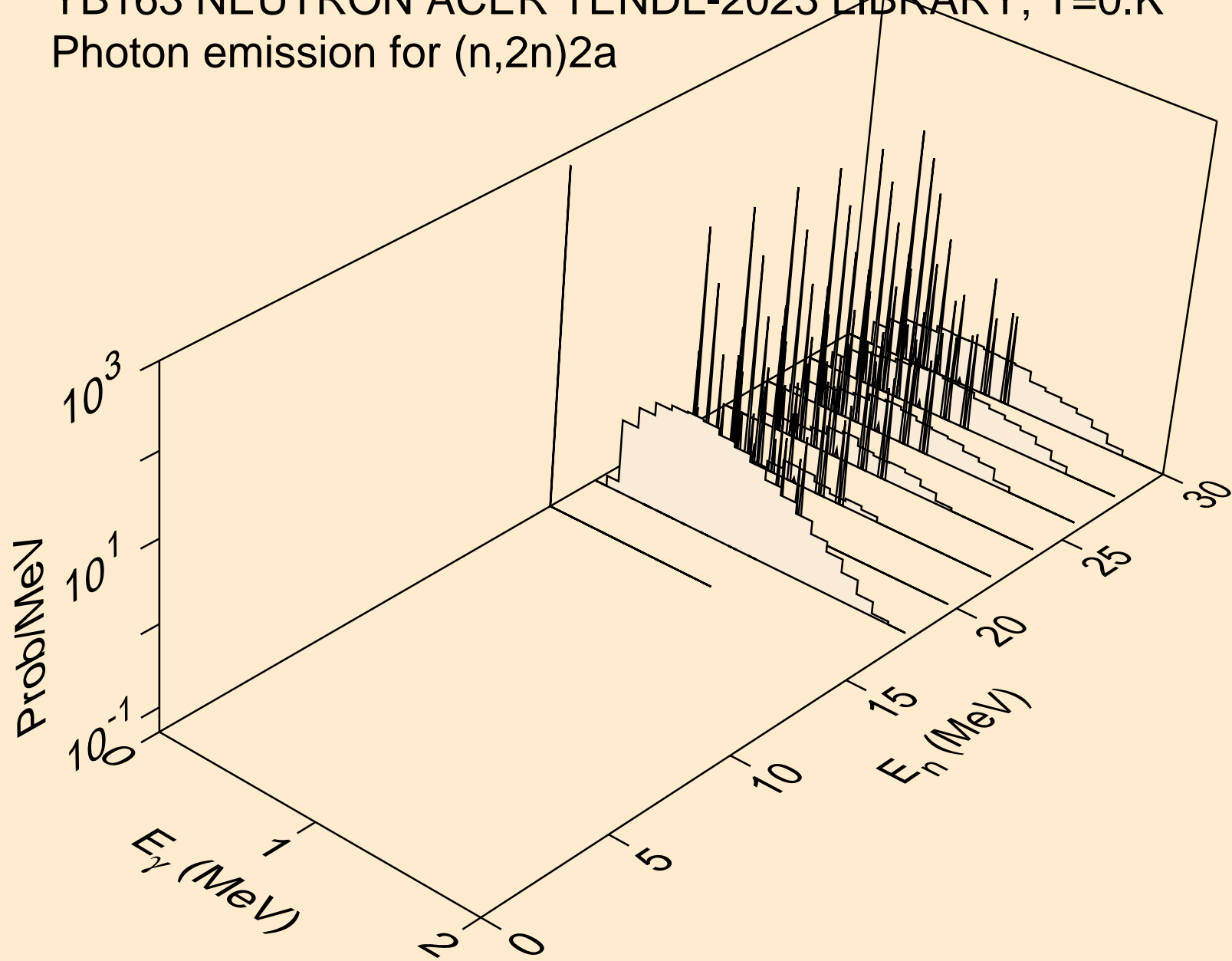
YB163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)p



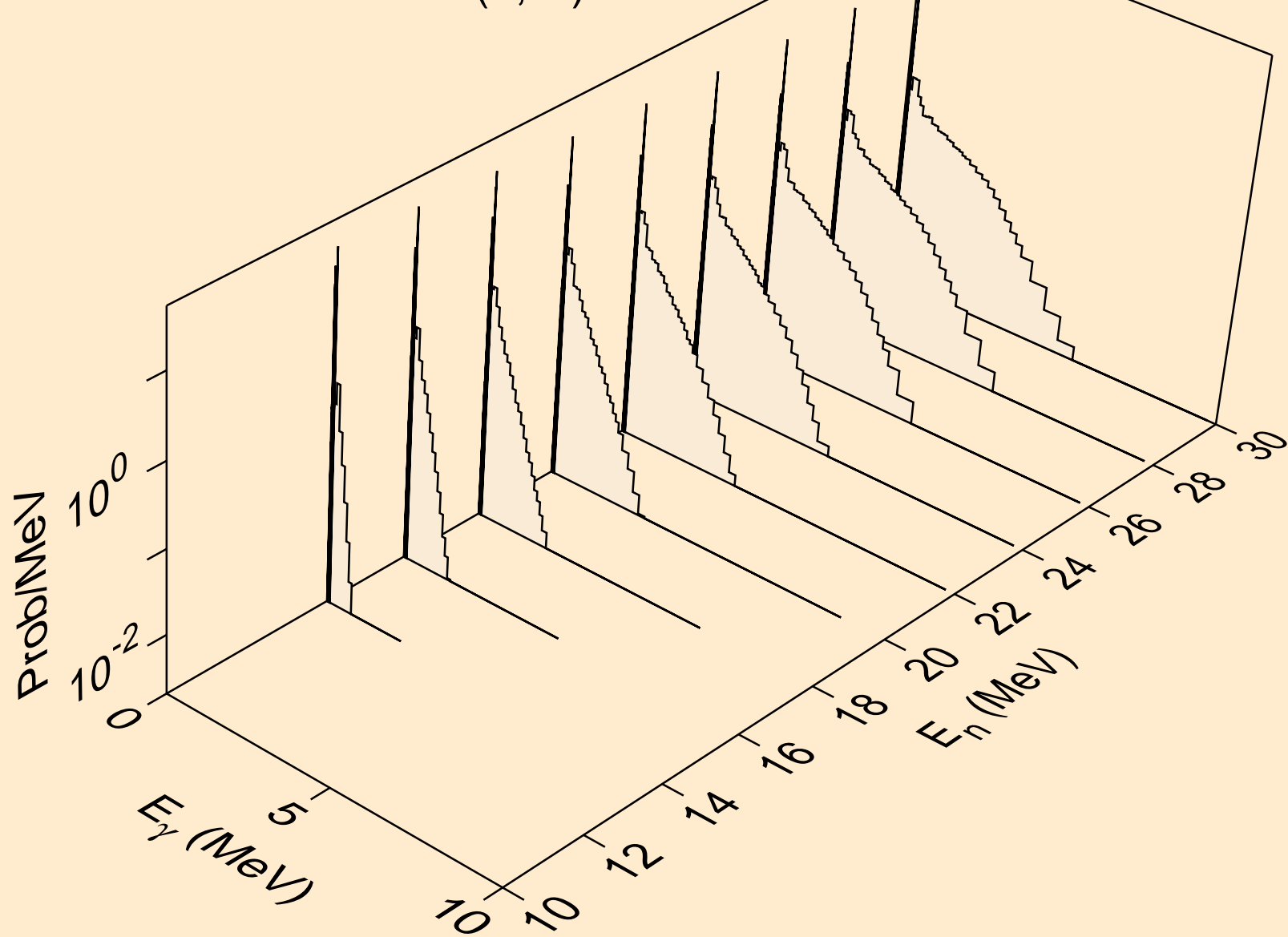
YB163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)2a



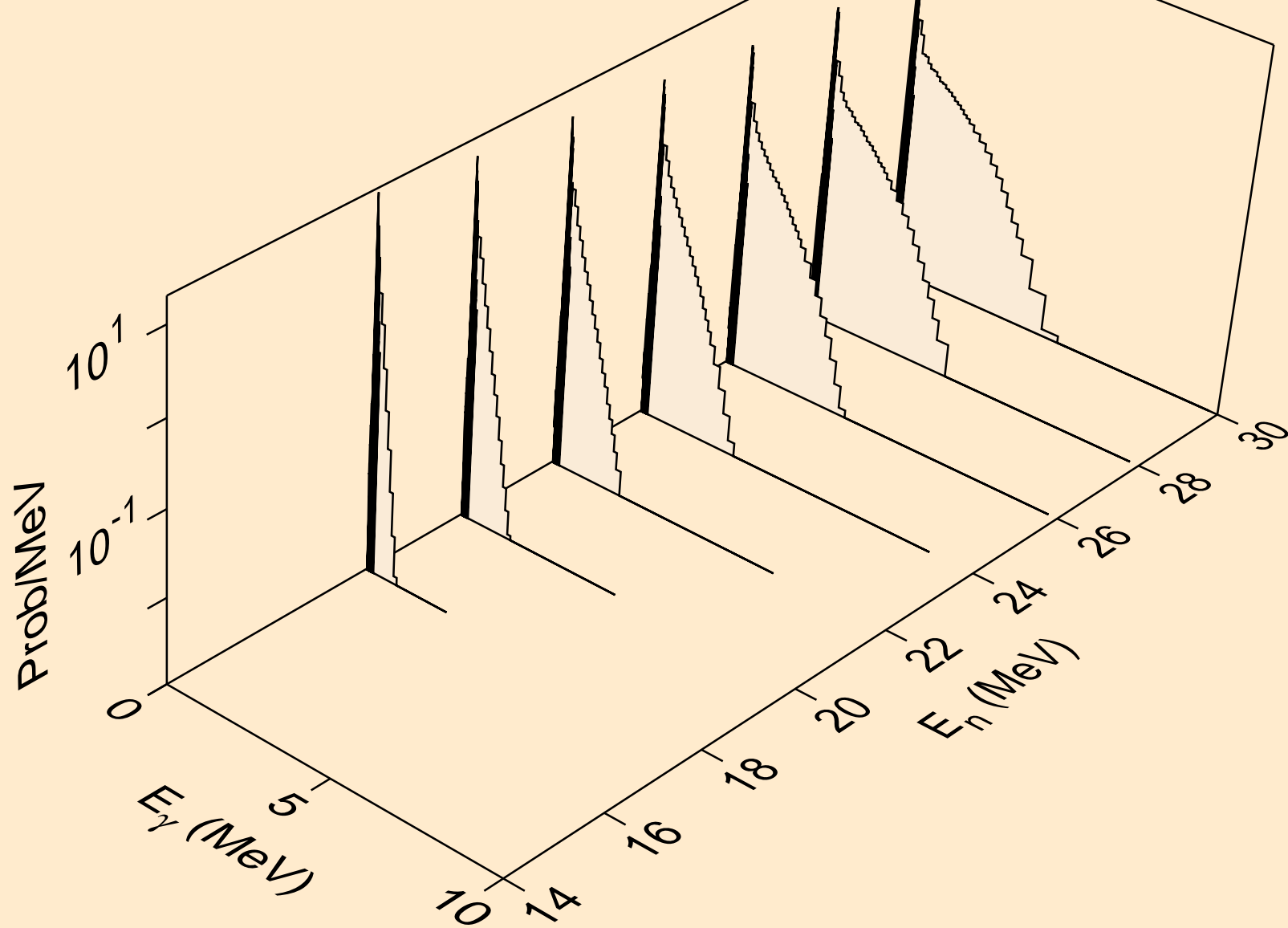
YB163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2n)2a



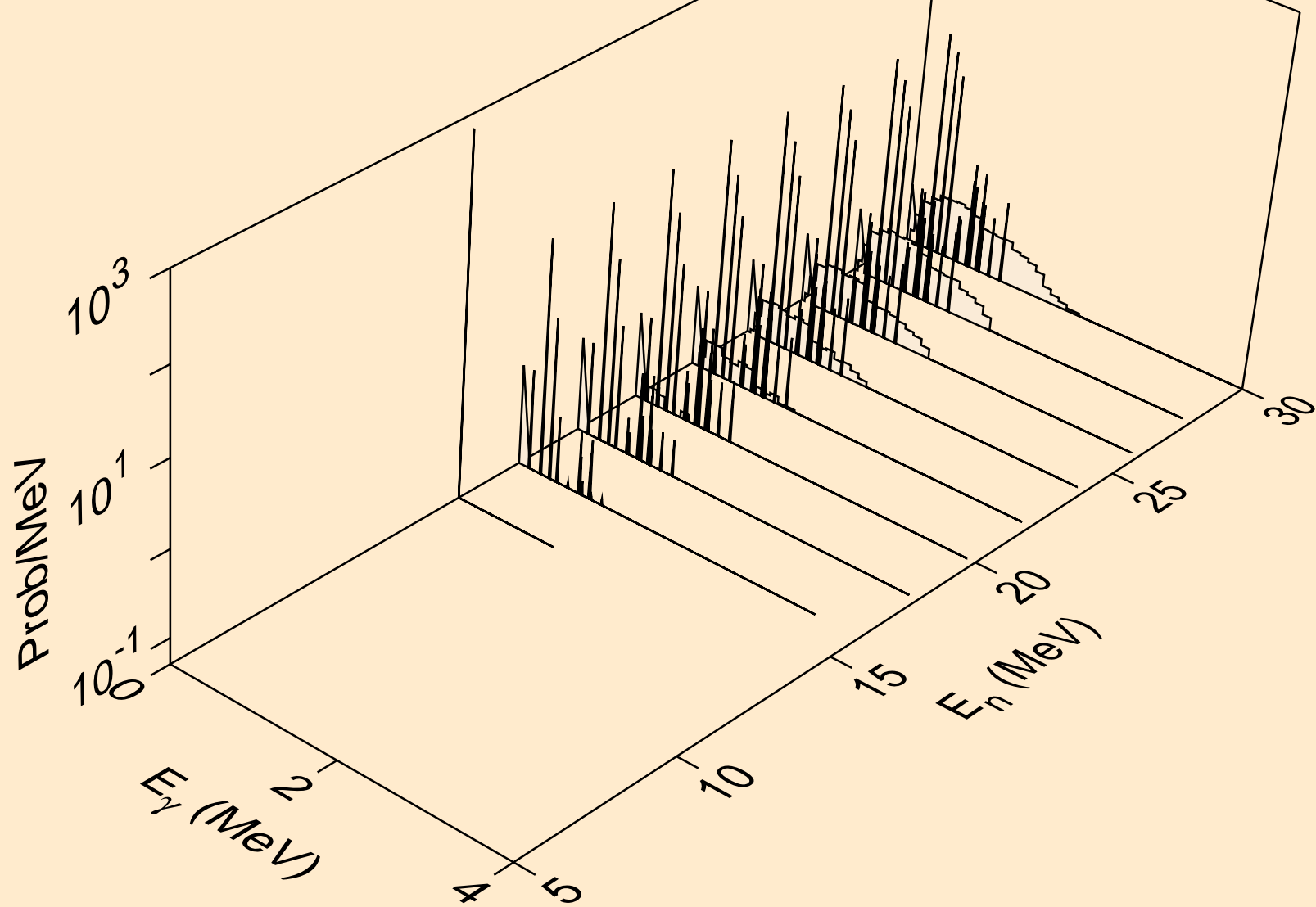
YB163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)d



YB163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)t

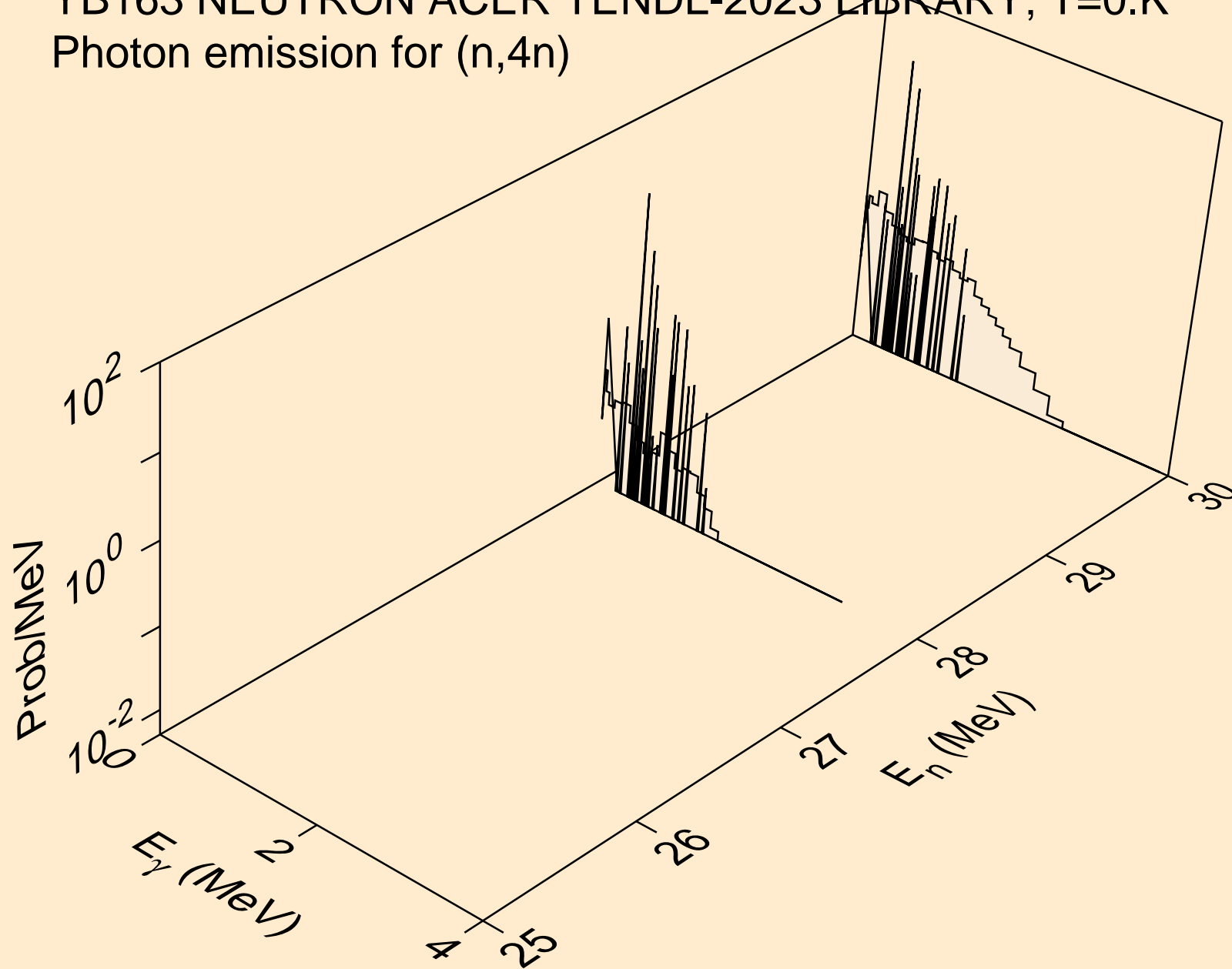


YB163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)he3

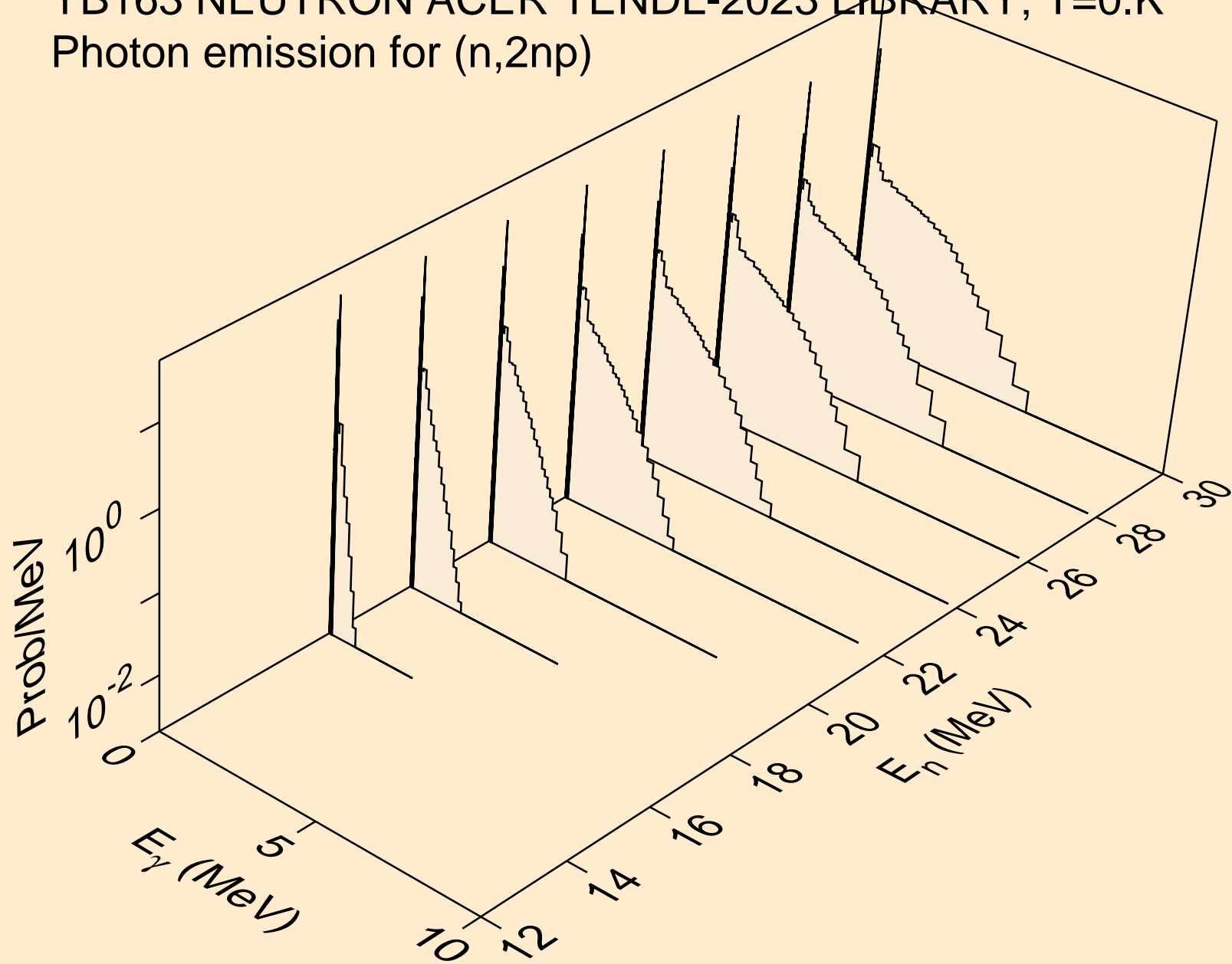




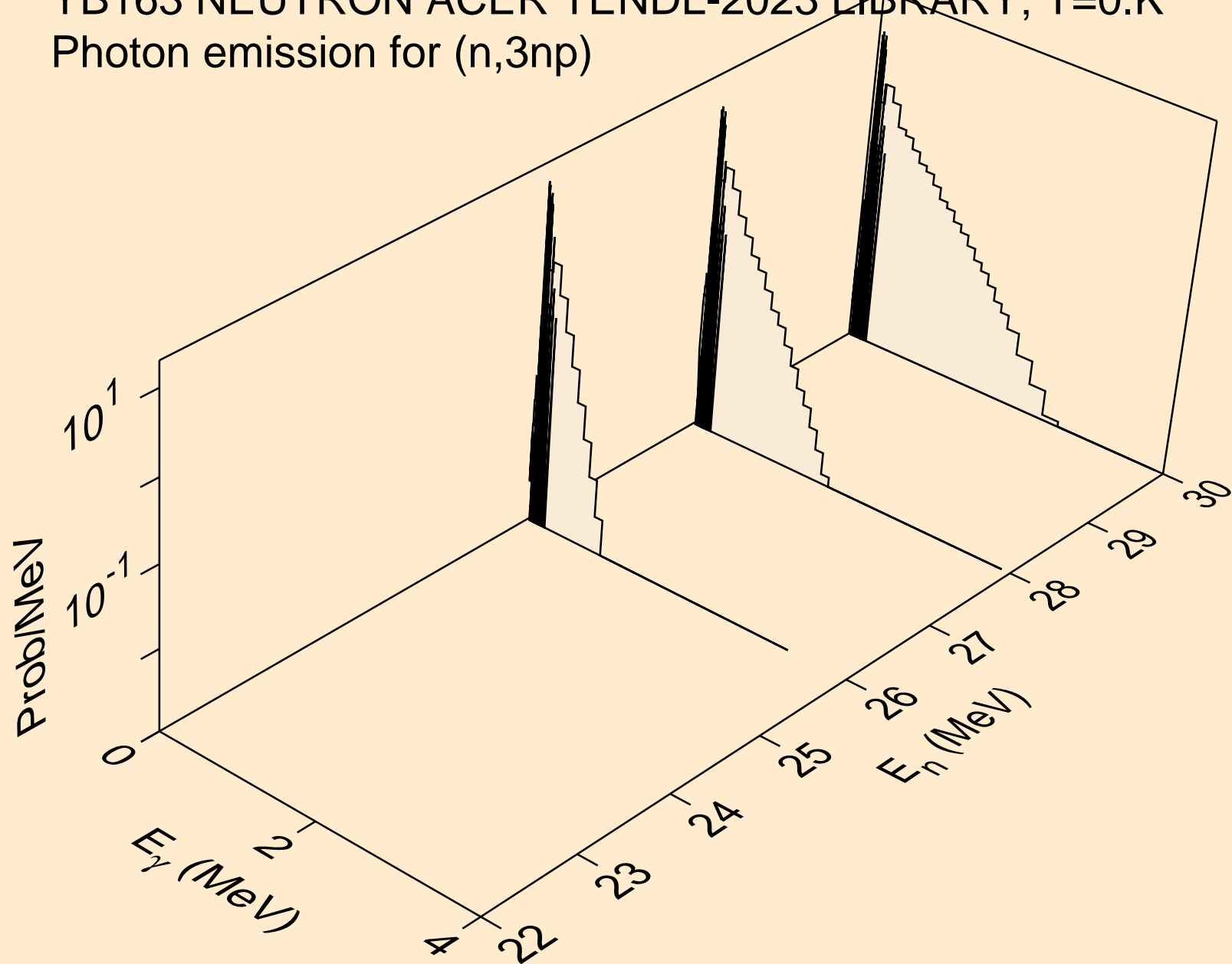
YB163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,4n)



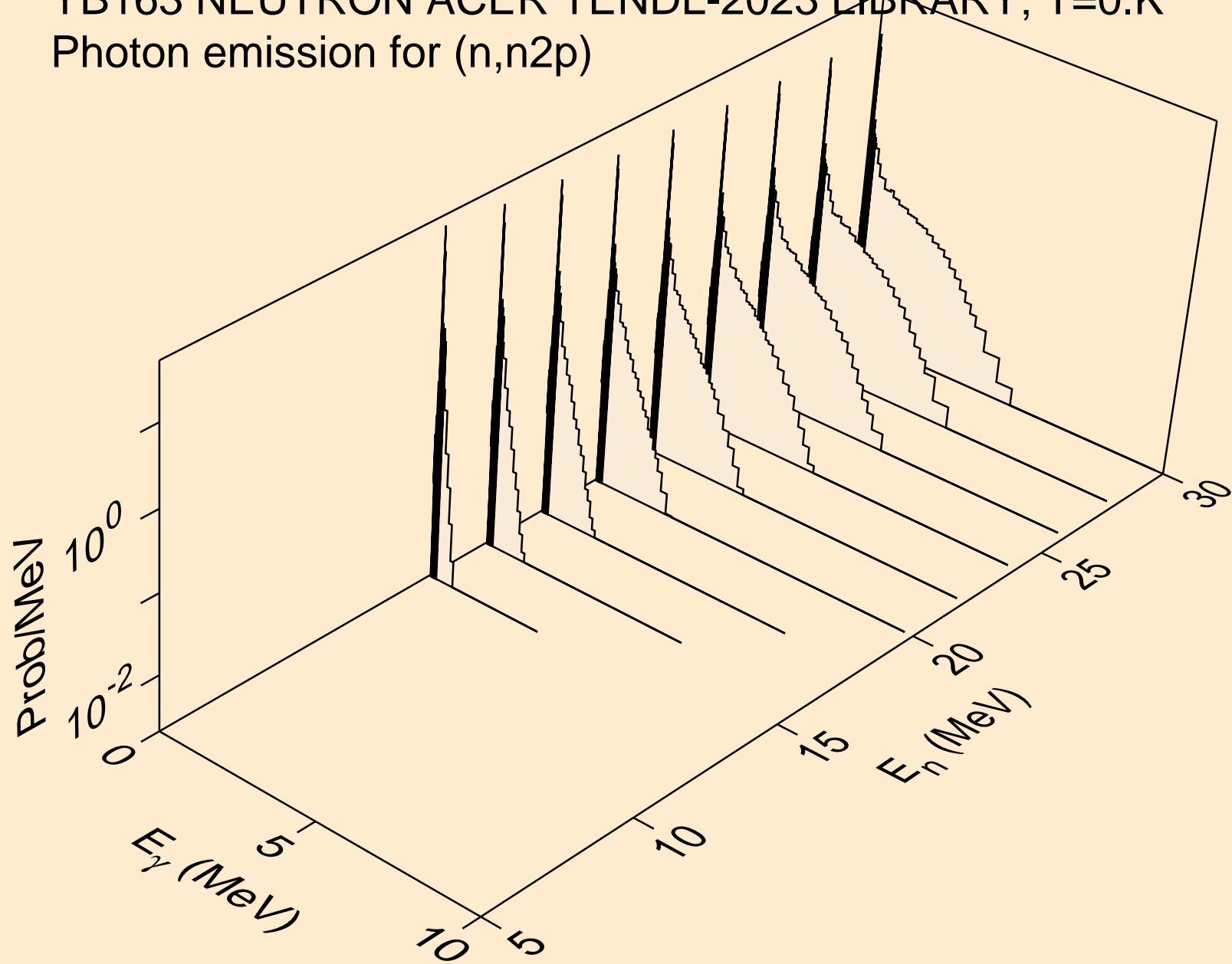
YB163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2np)



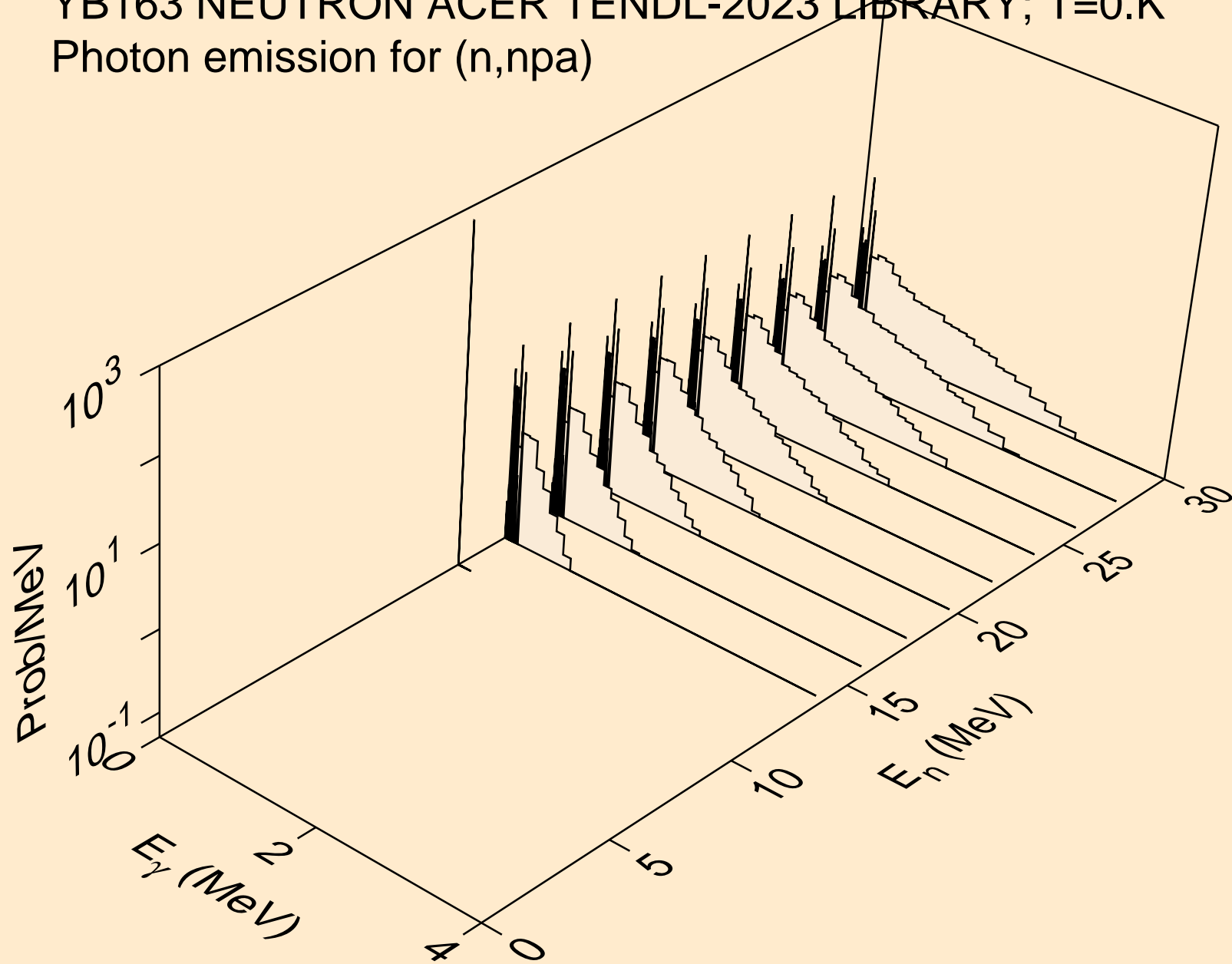
YB163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,3np)



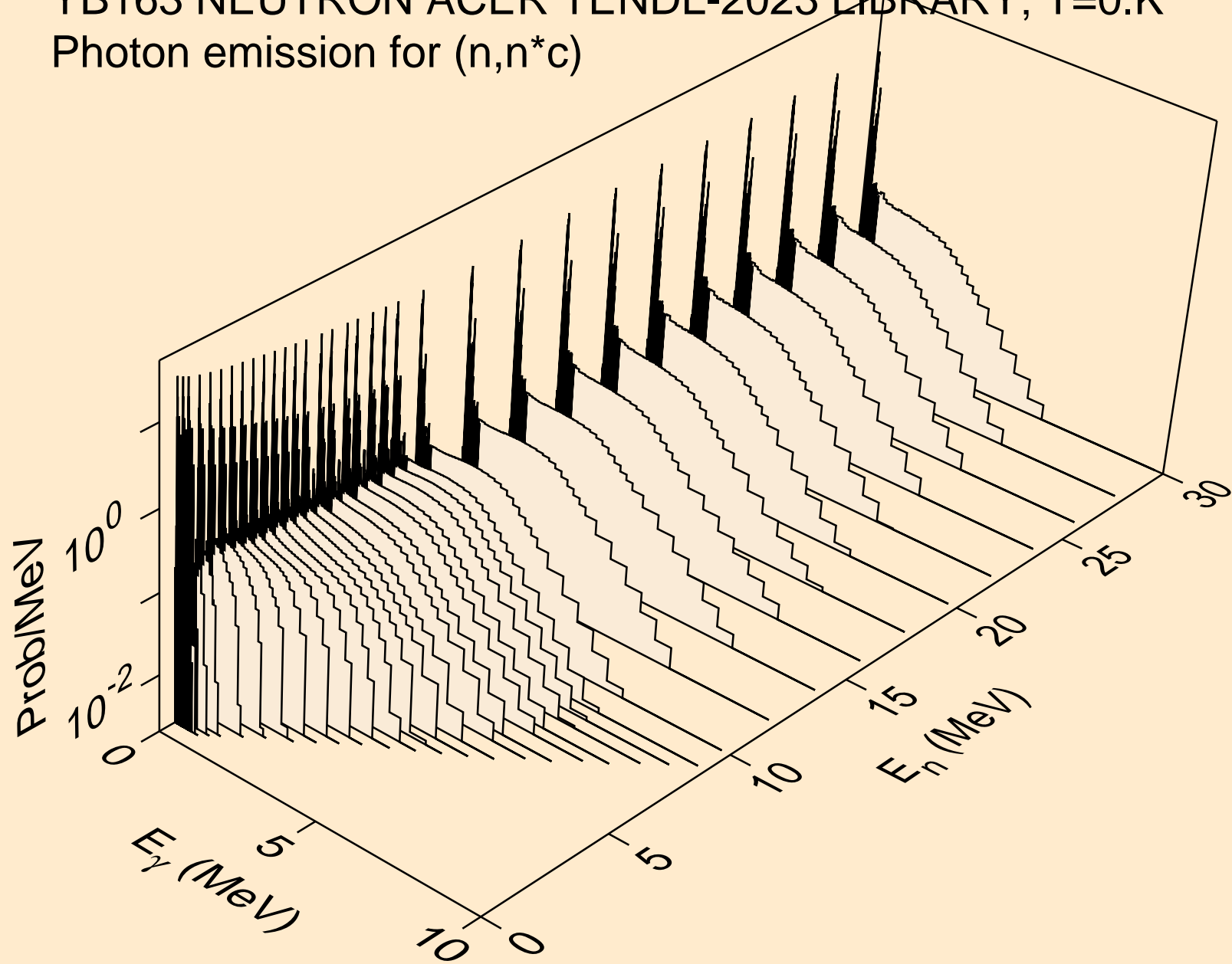
YB163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n2p)



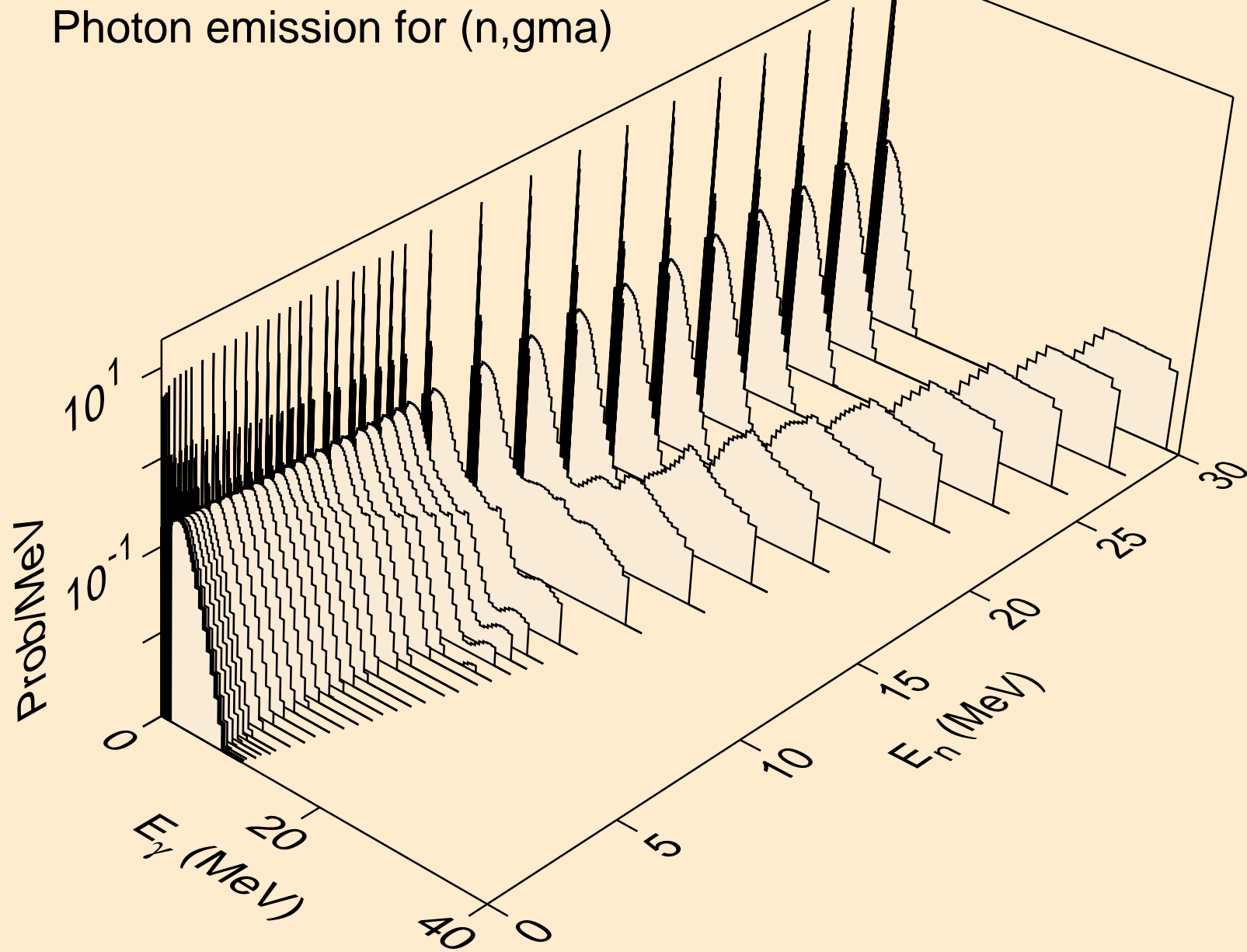
YB163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,npa)



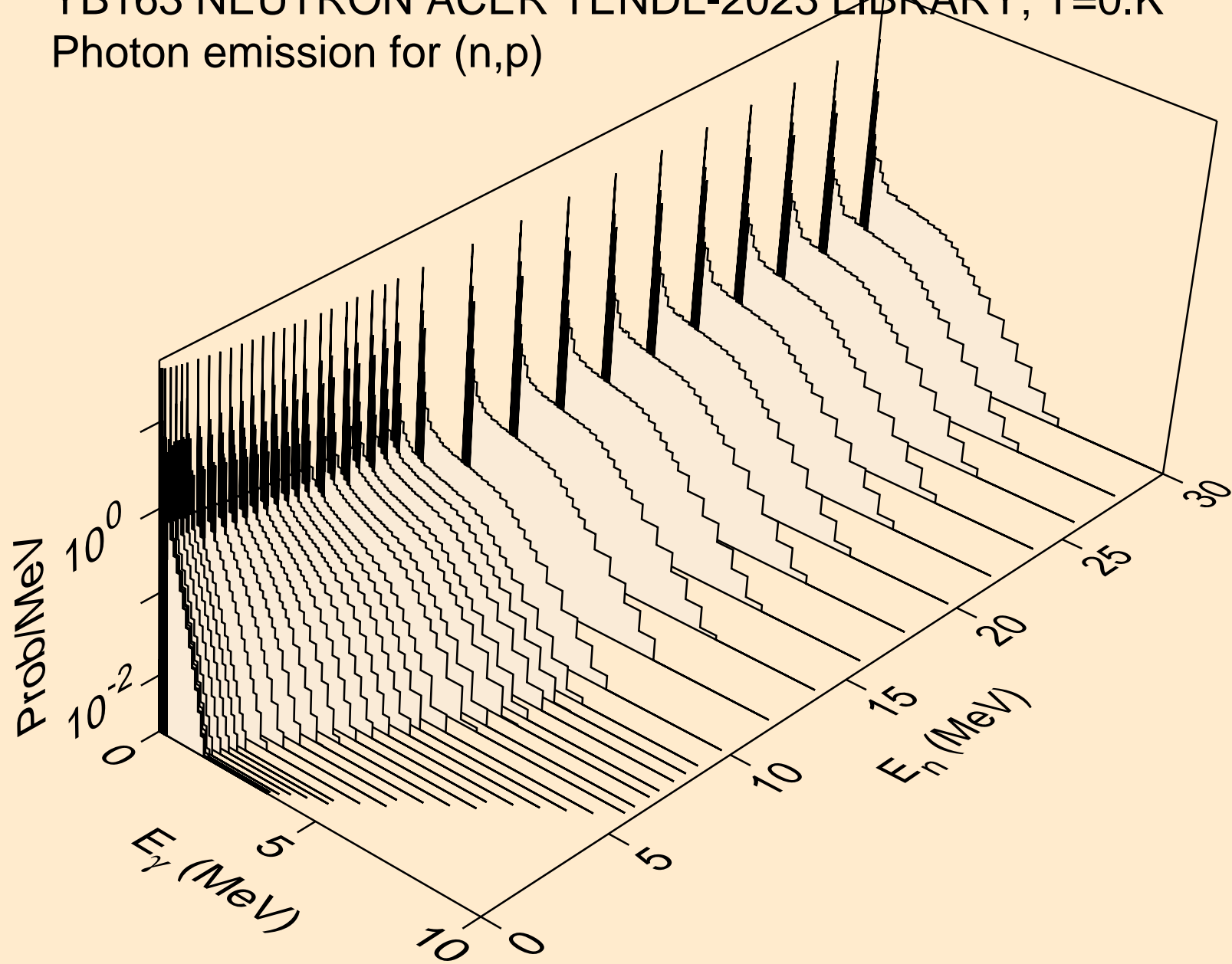
YB163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*c)



YB163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,gma)

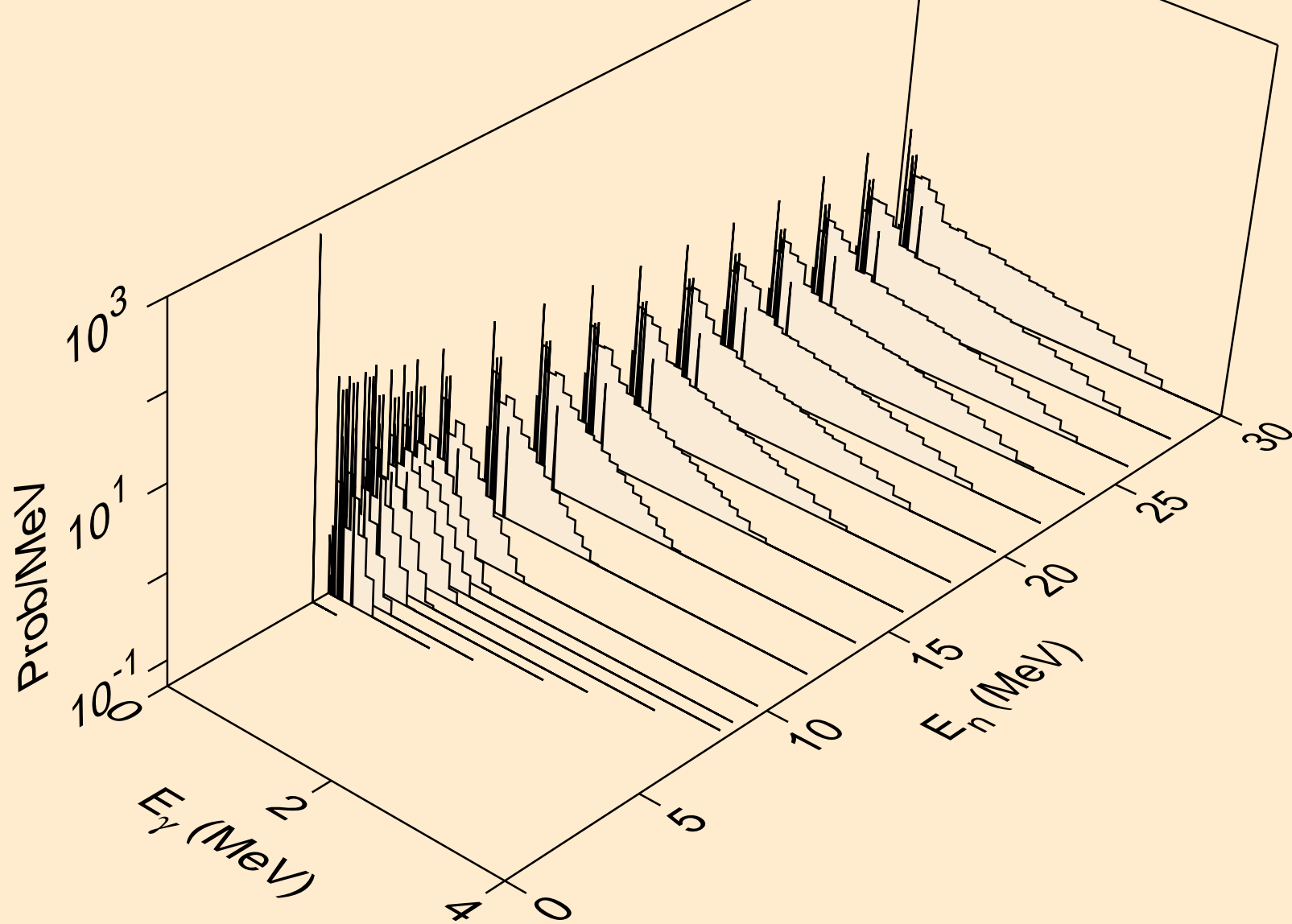


YB163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,p)

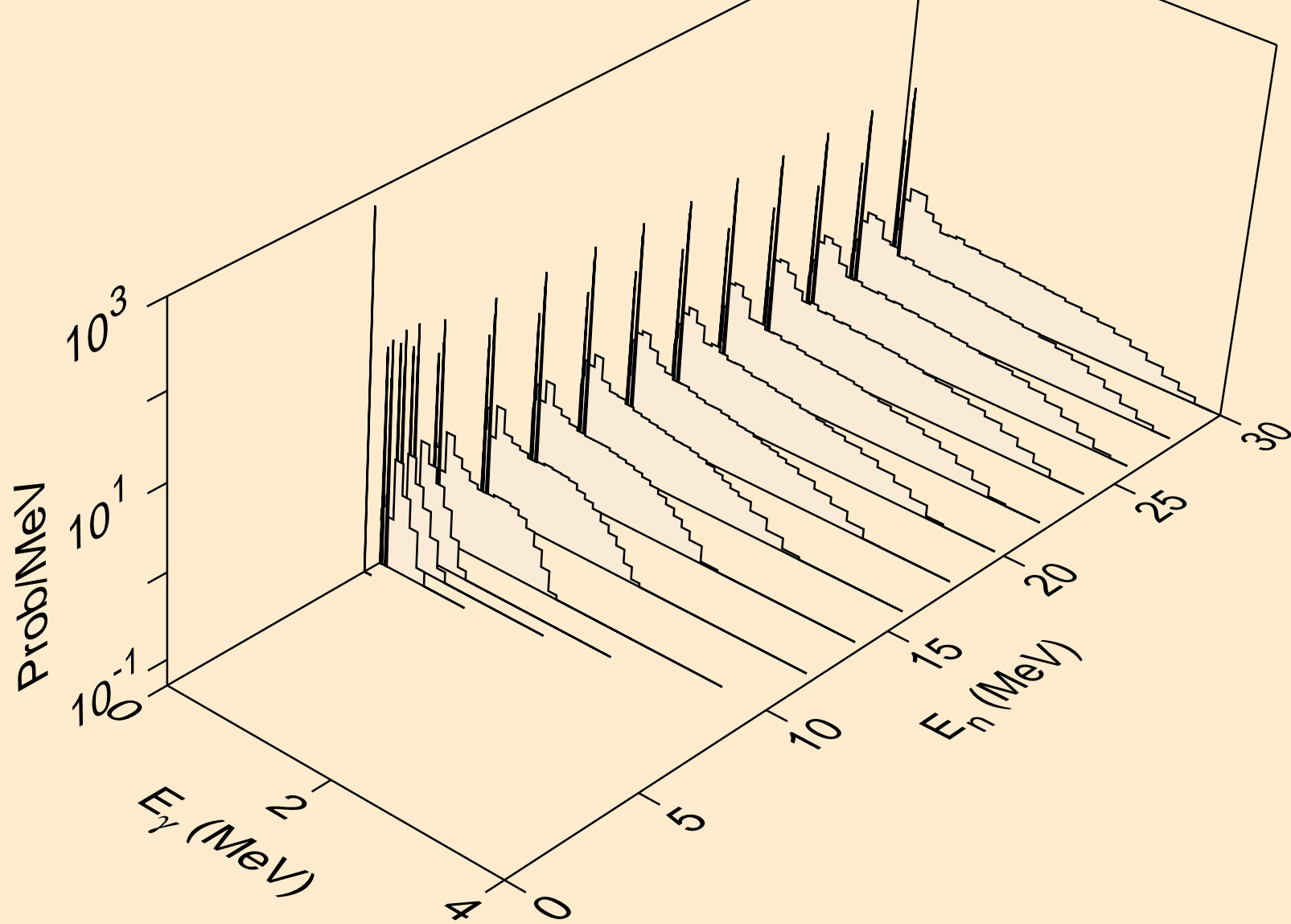




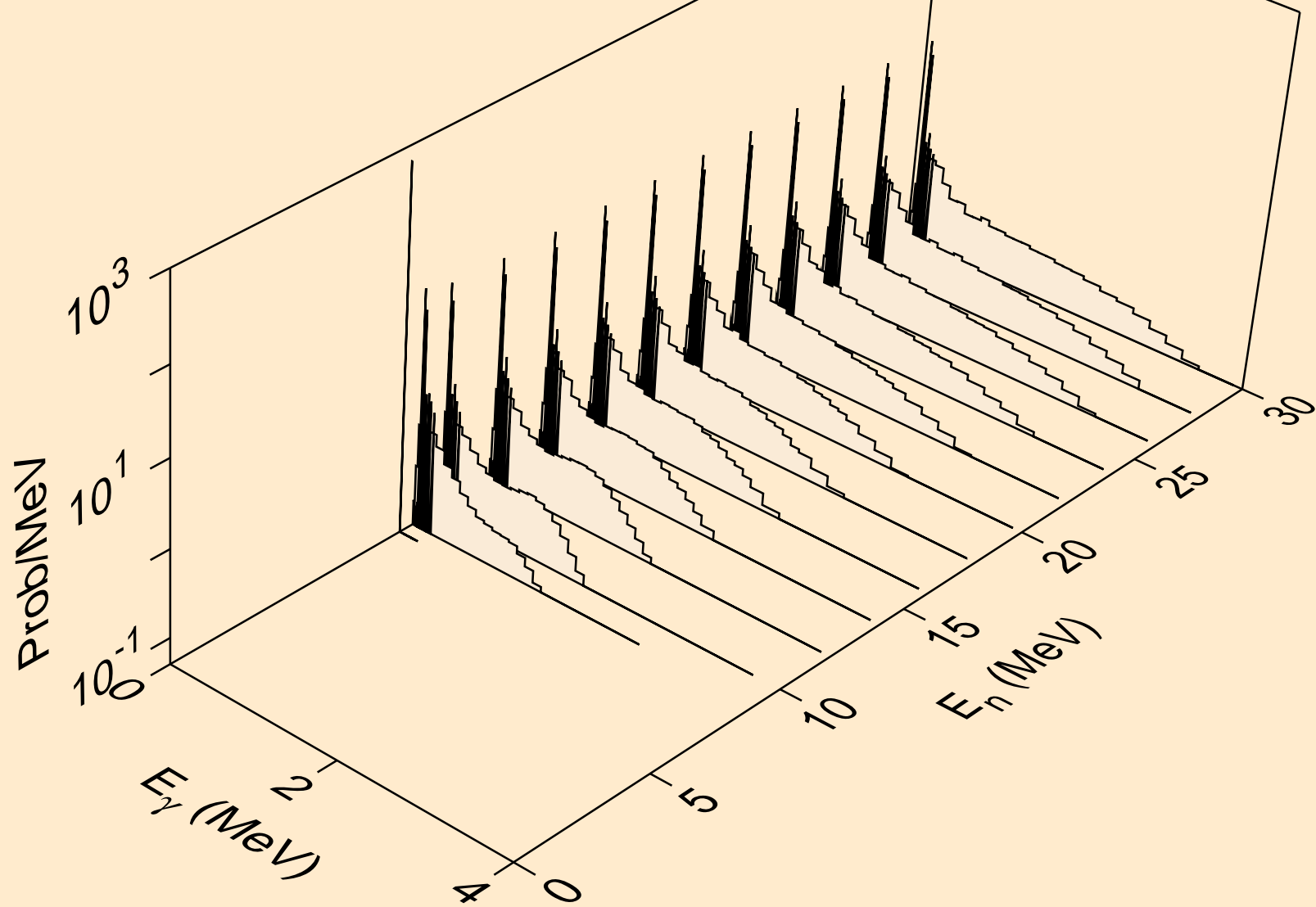
YB163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,d)



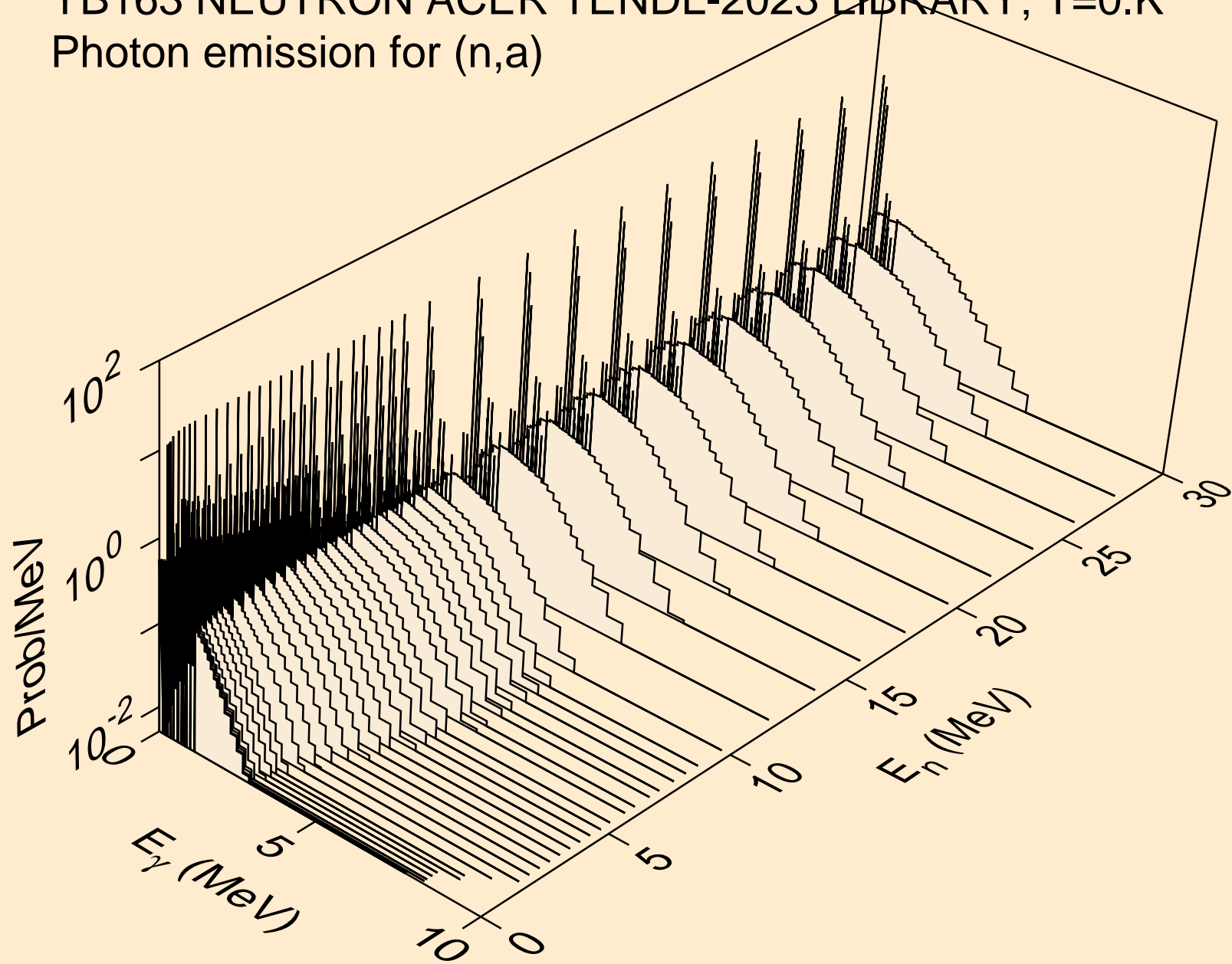
YB163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,t)



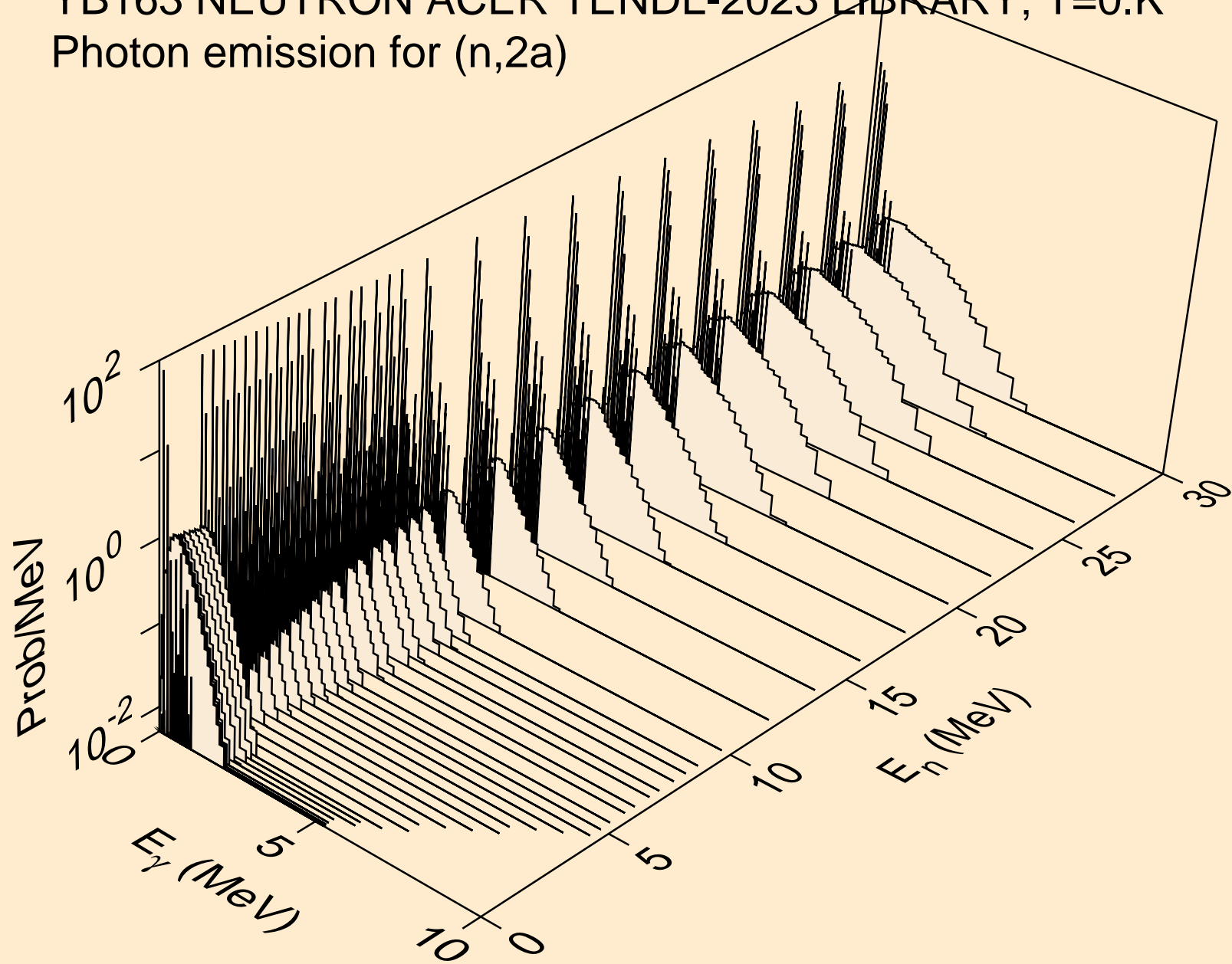
YB163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,he3)



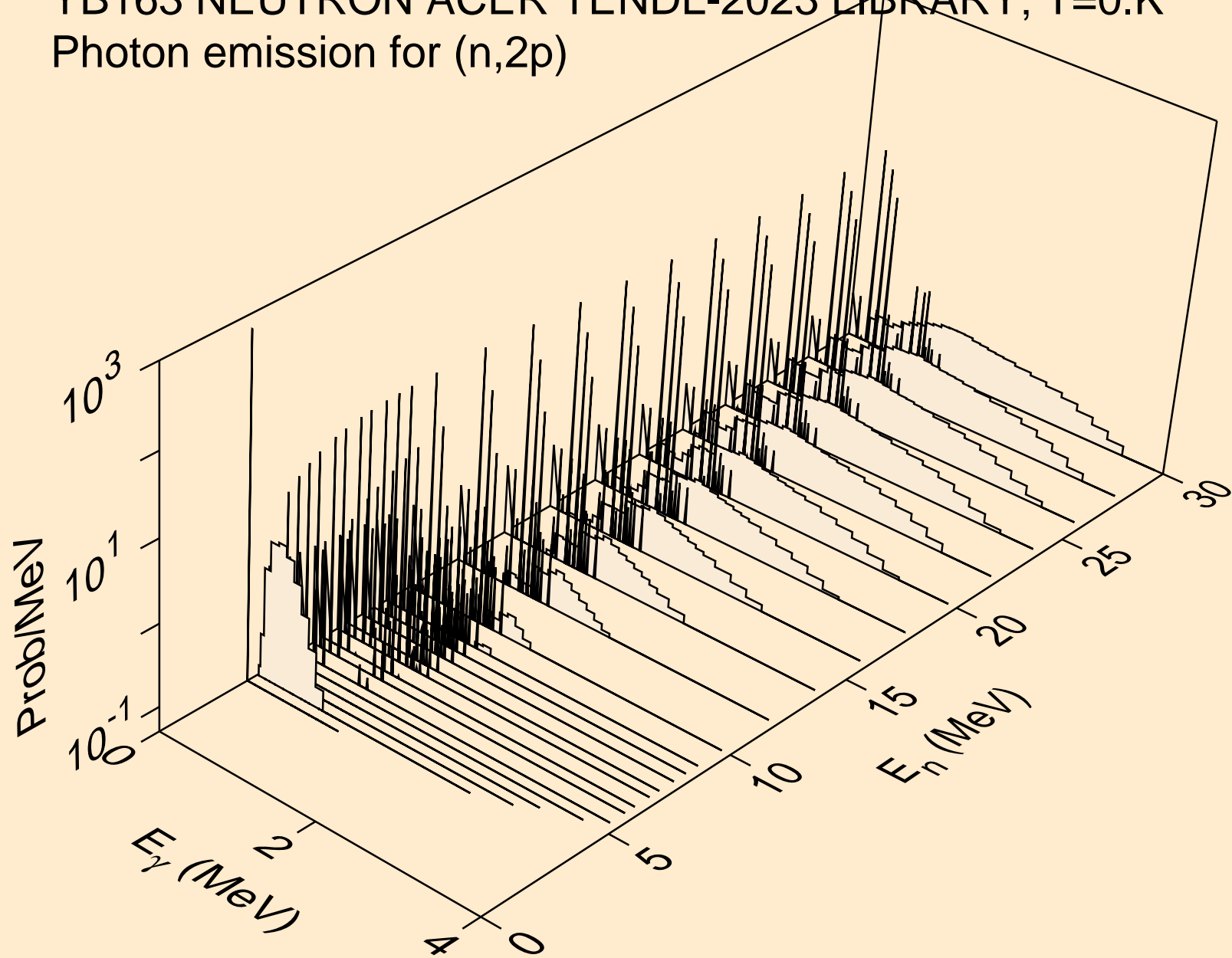
YB163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,a)



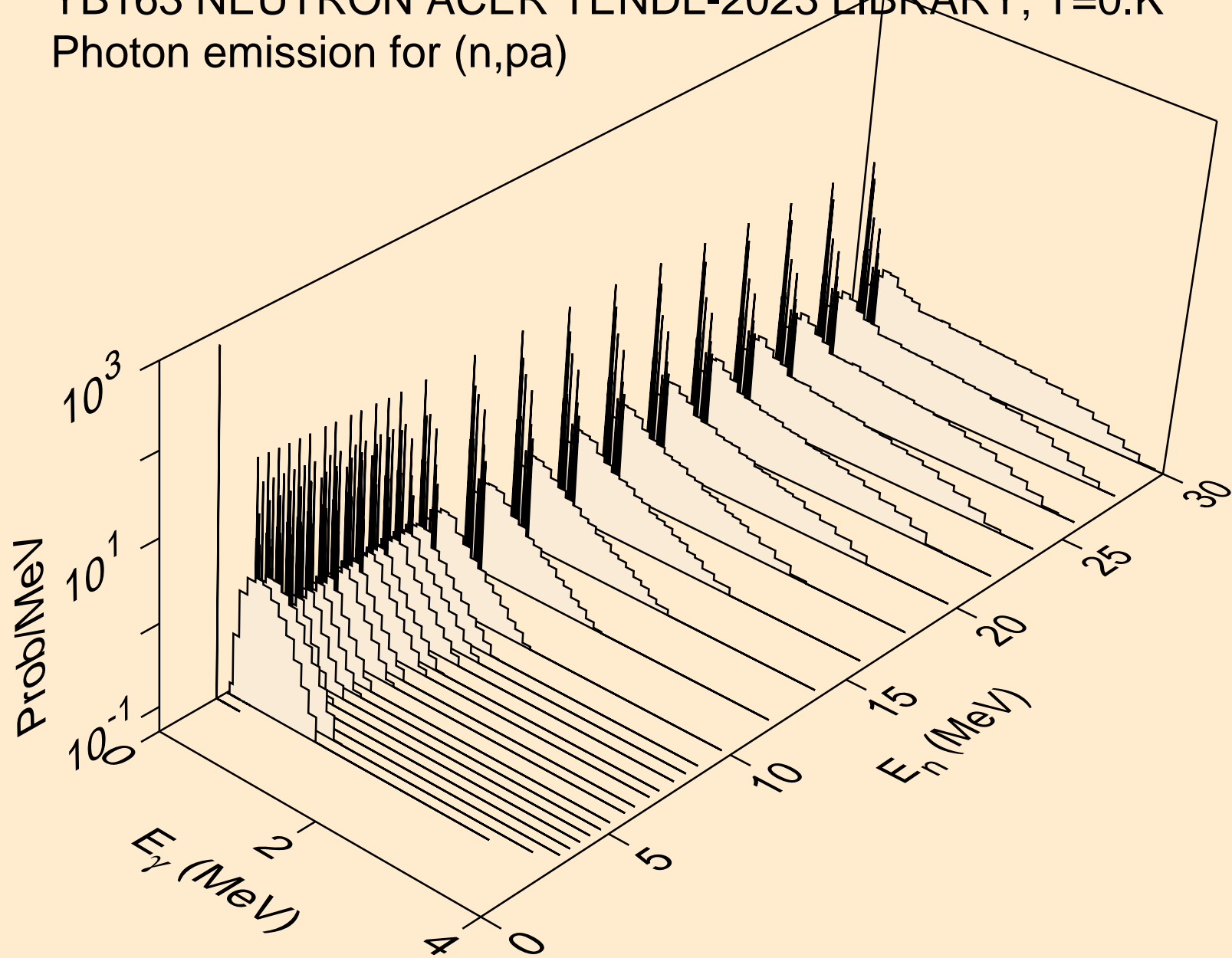
YB163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2a)



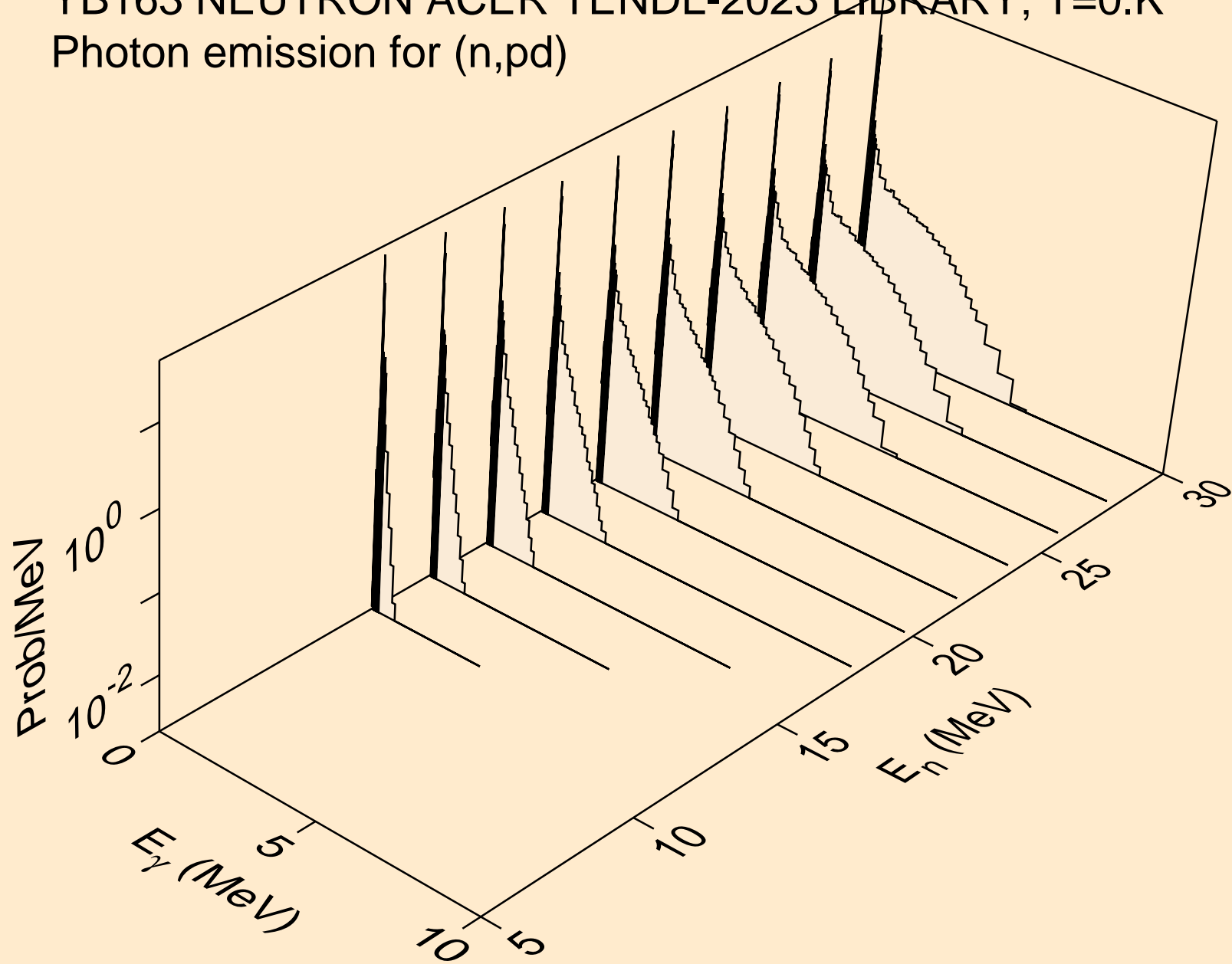
YB163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2p)



YB163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,p $\alpha$ )

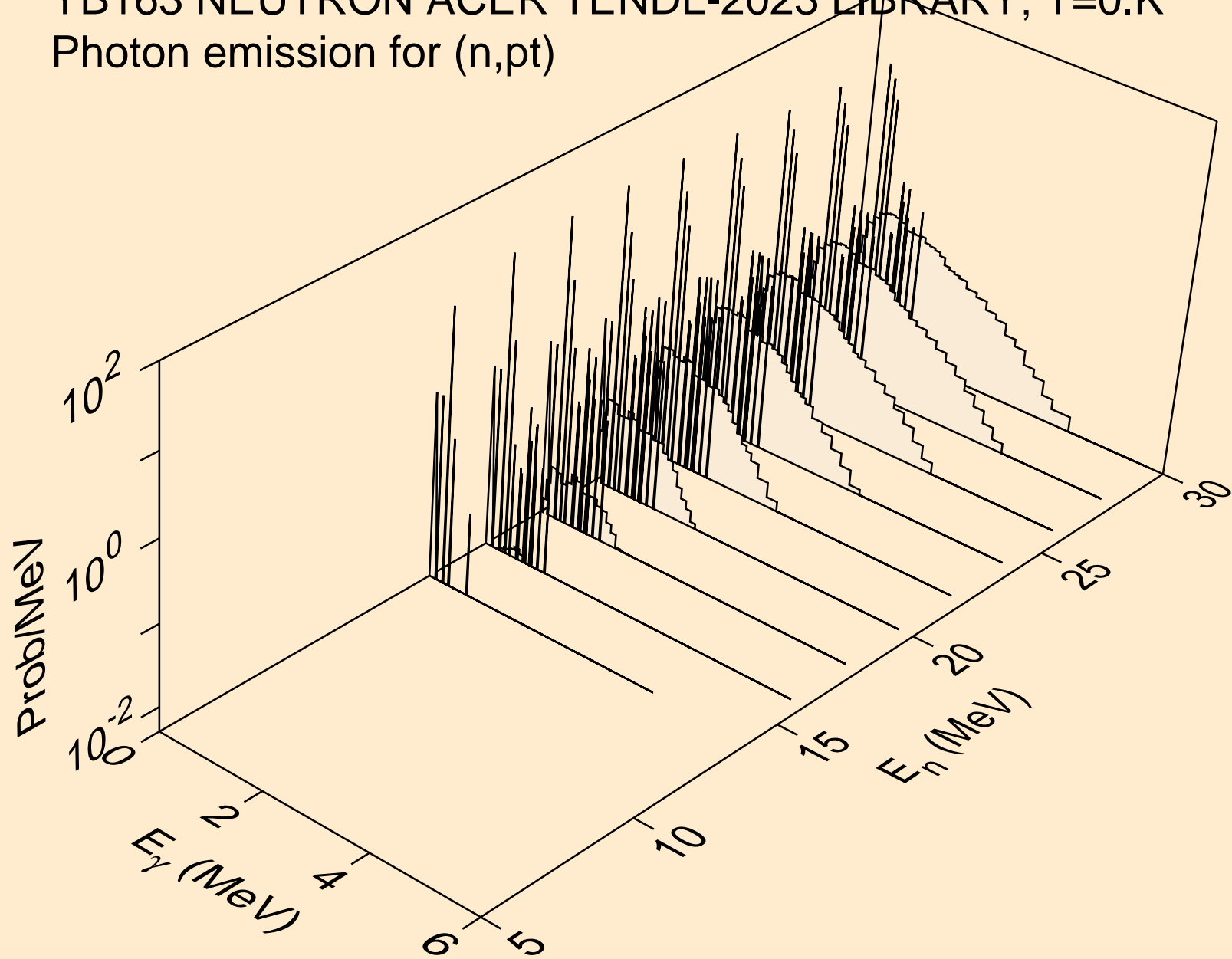


YB163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,pd)

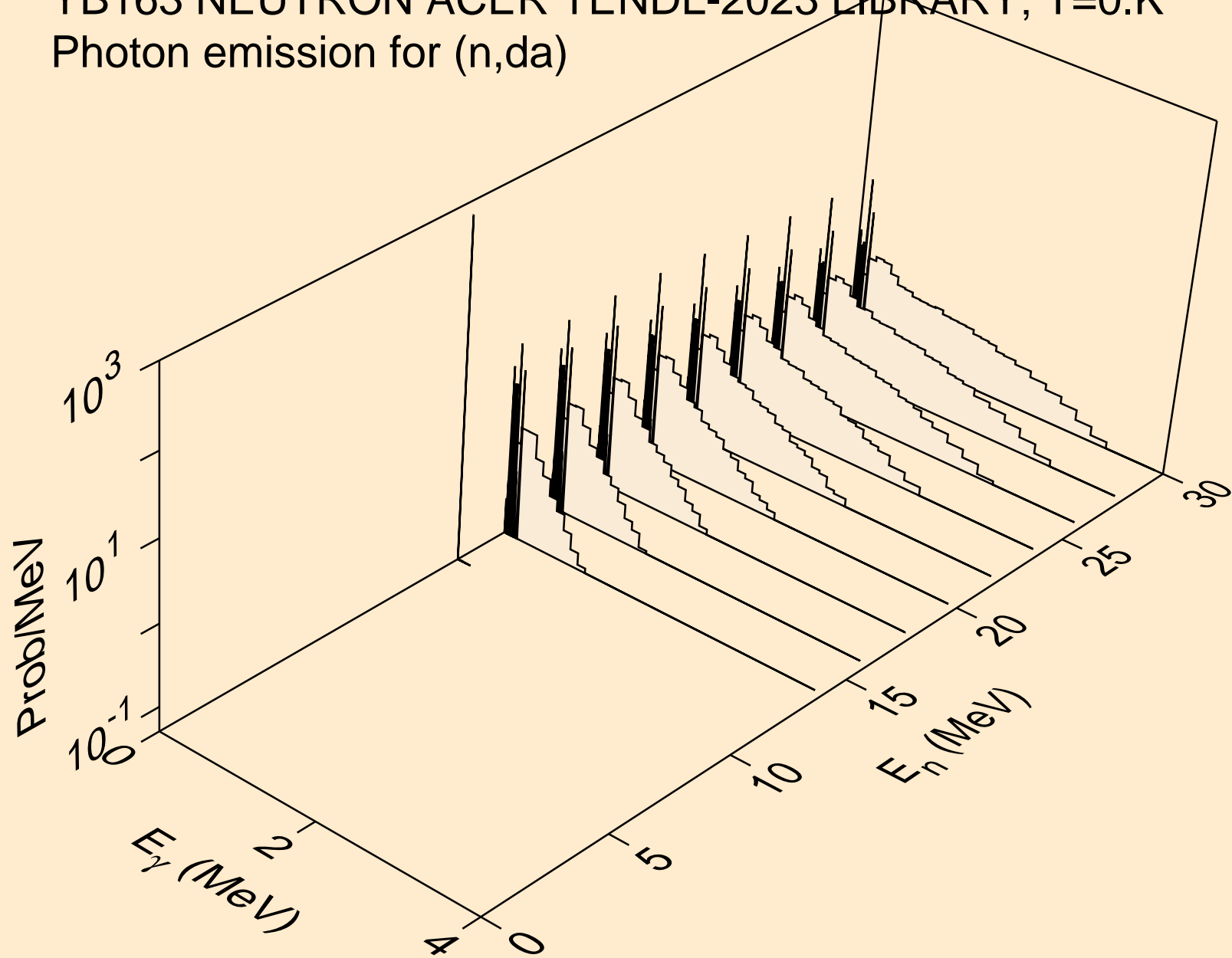




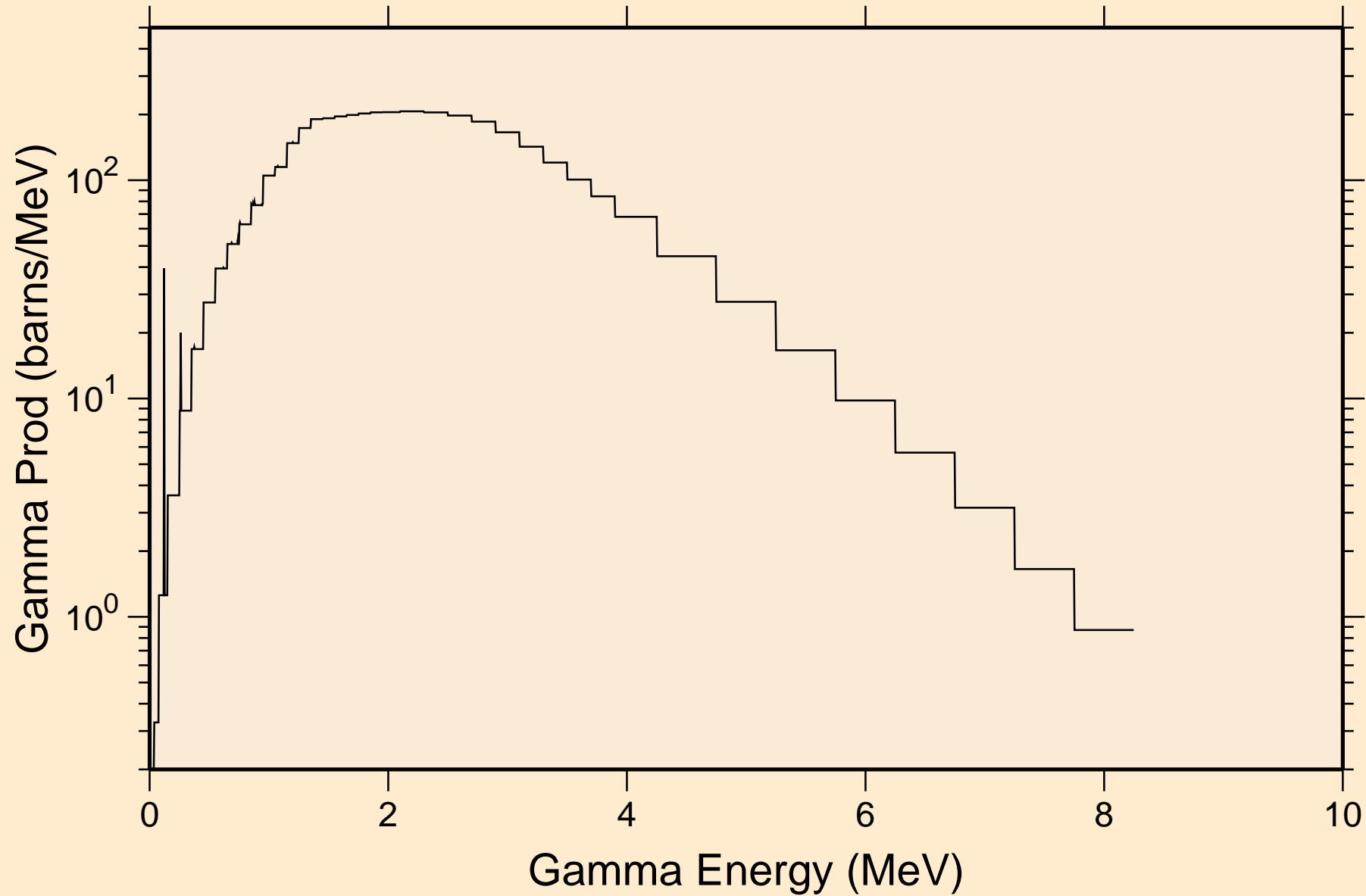
YB163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,pt)



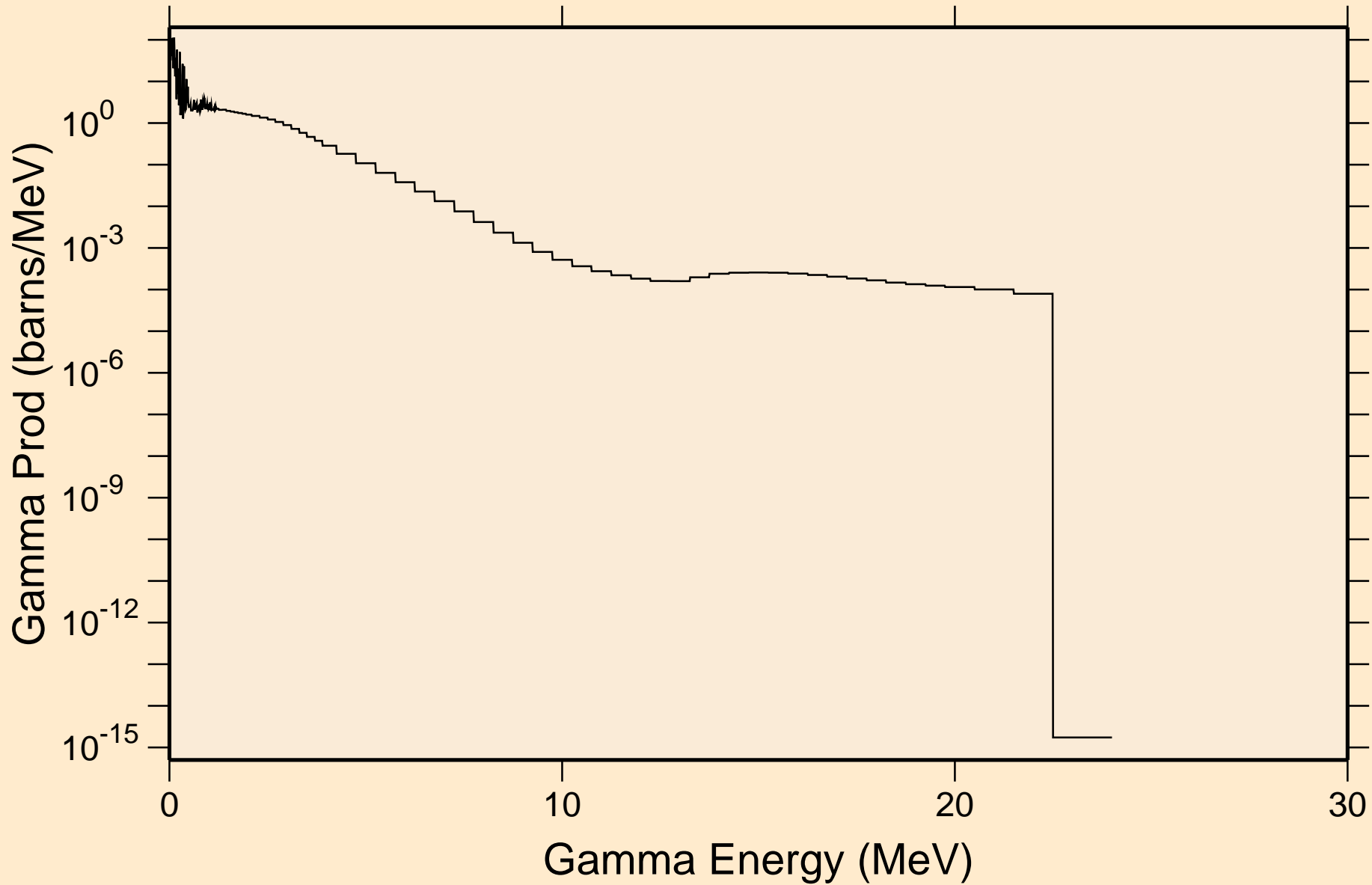
YB163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,da)



YB163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
thermal capture photon spectrum

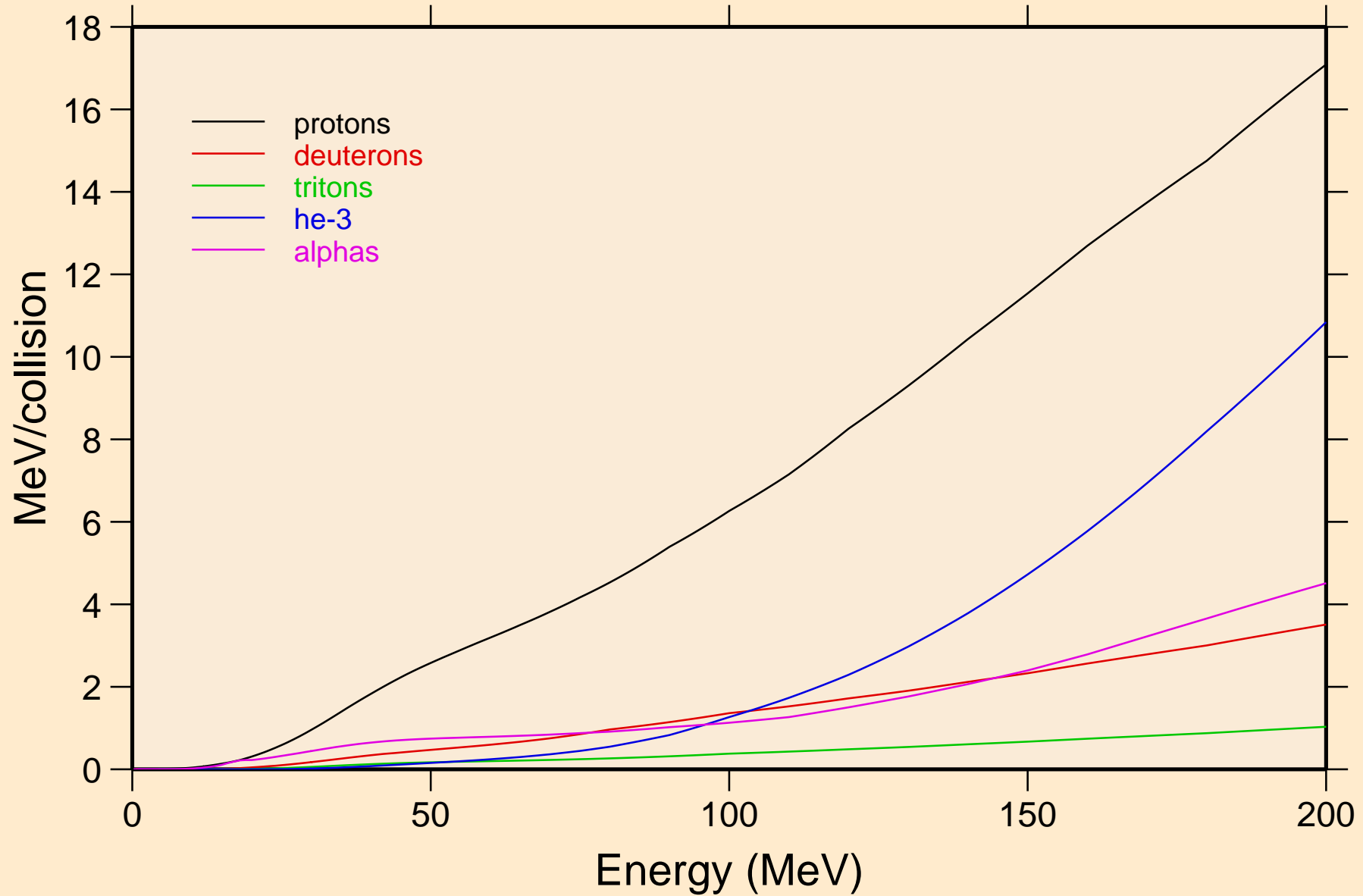


YB163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
14 MeV photon spectrum

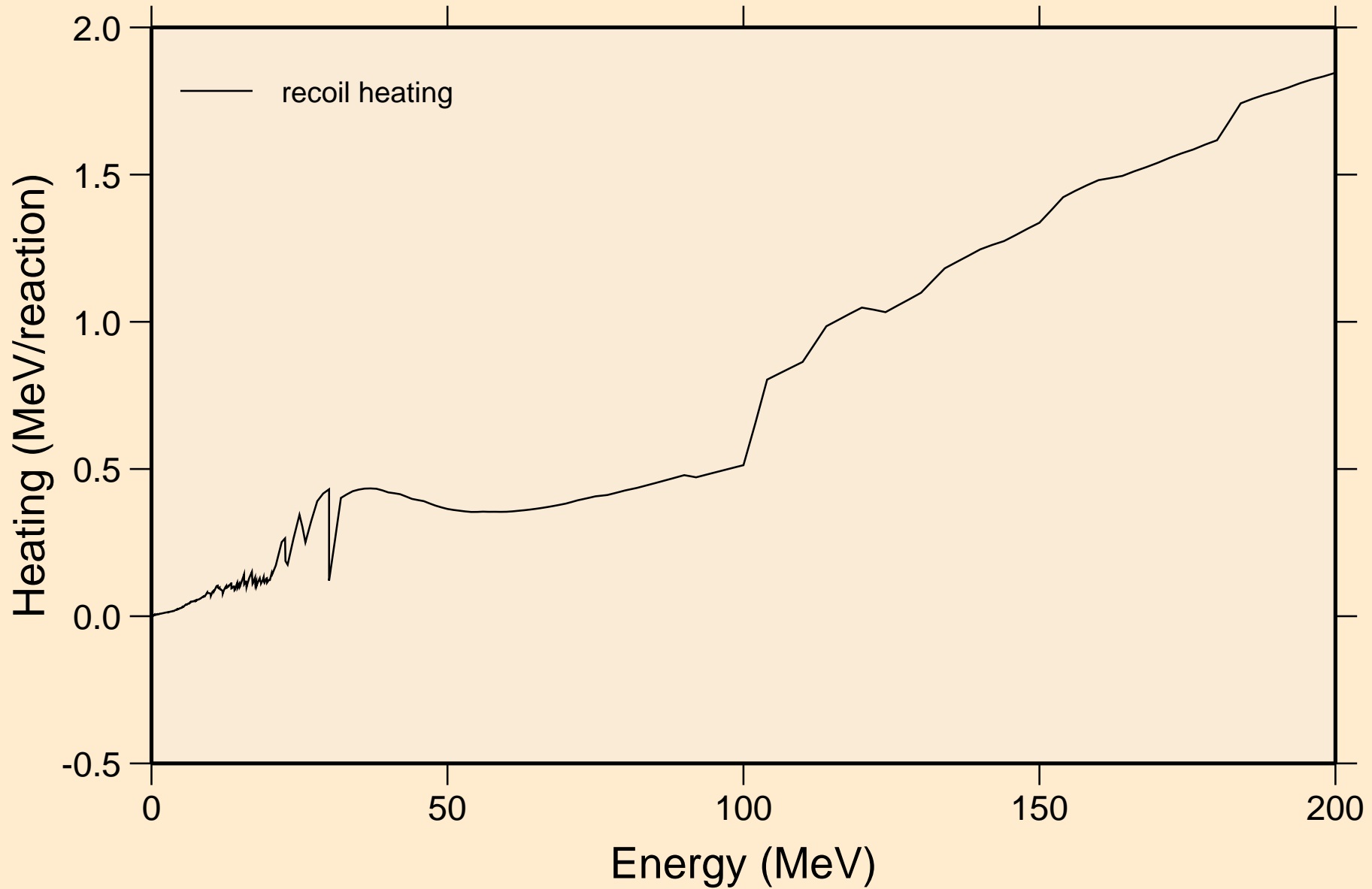


# YB163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

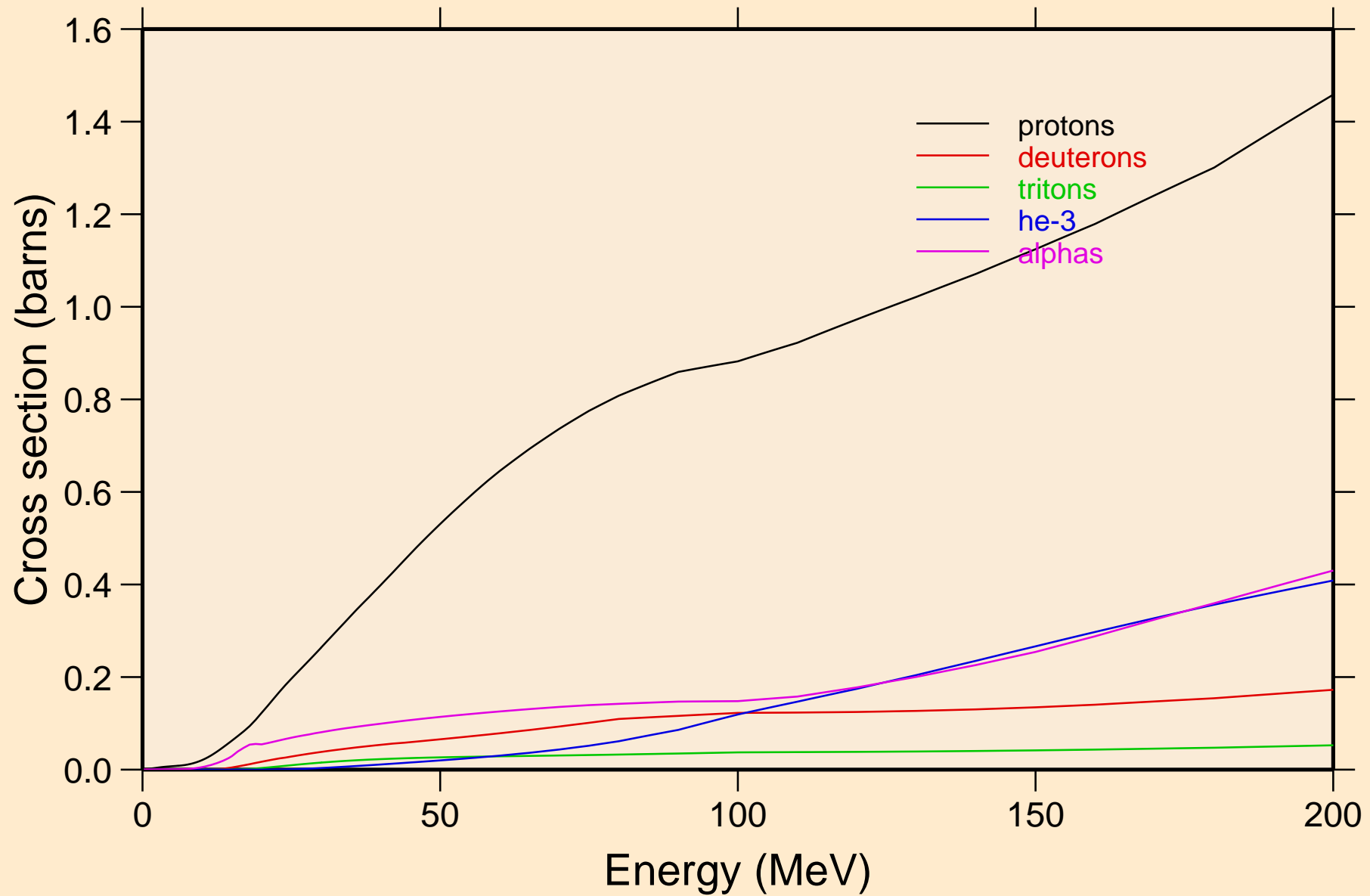
## Particle heating contributions



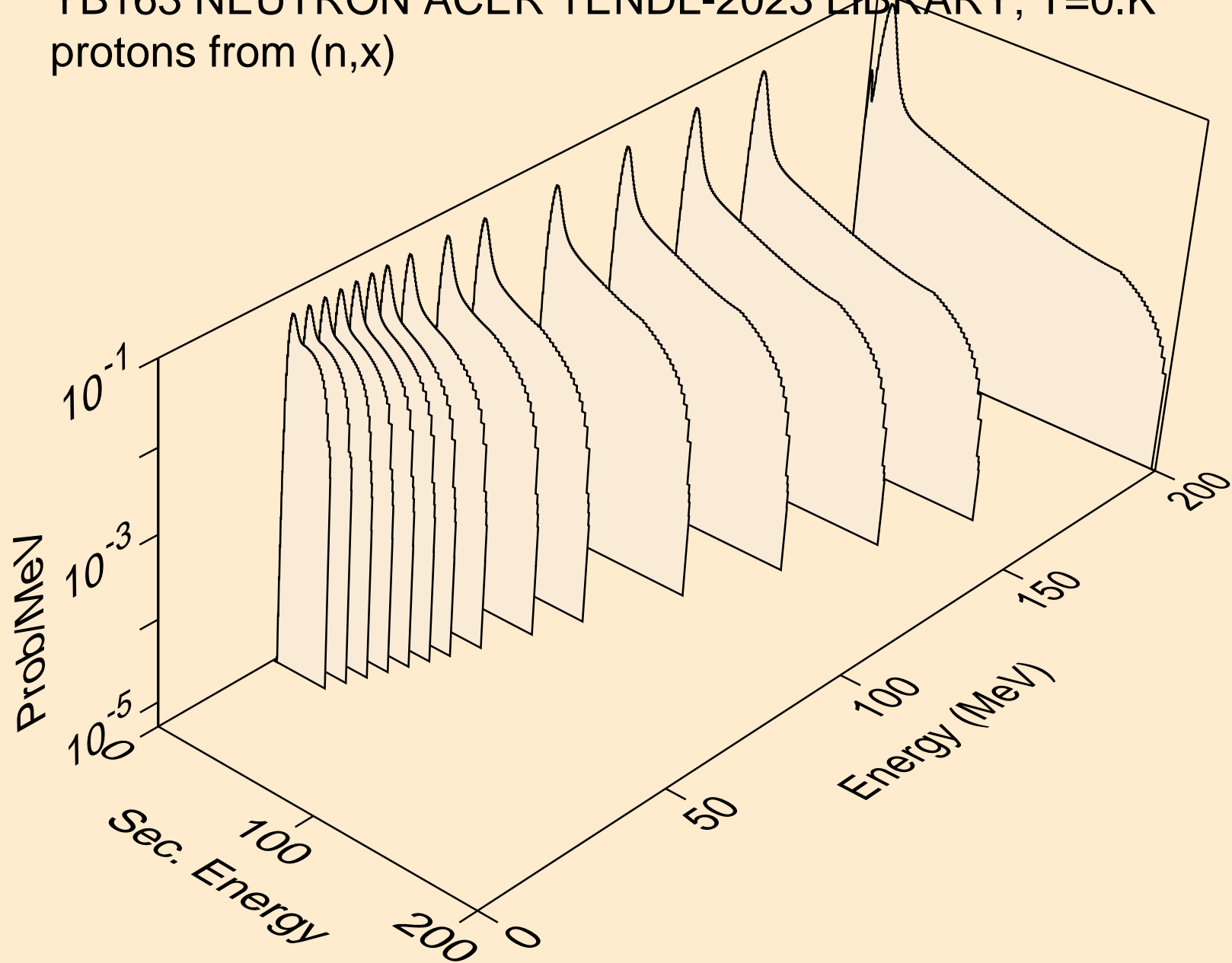
YB163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Recoil Heating



YB163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Particle production cross sections

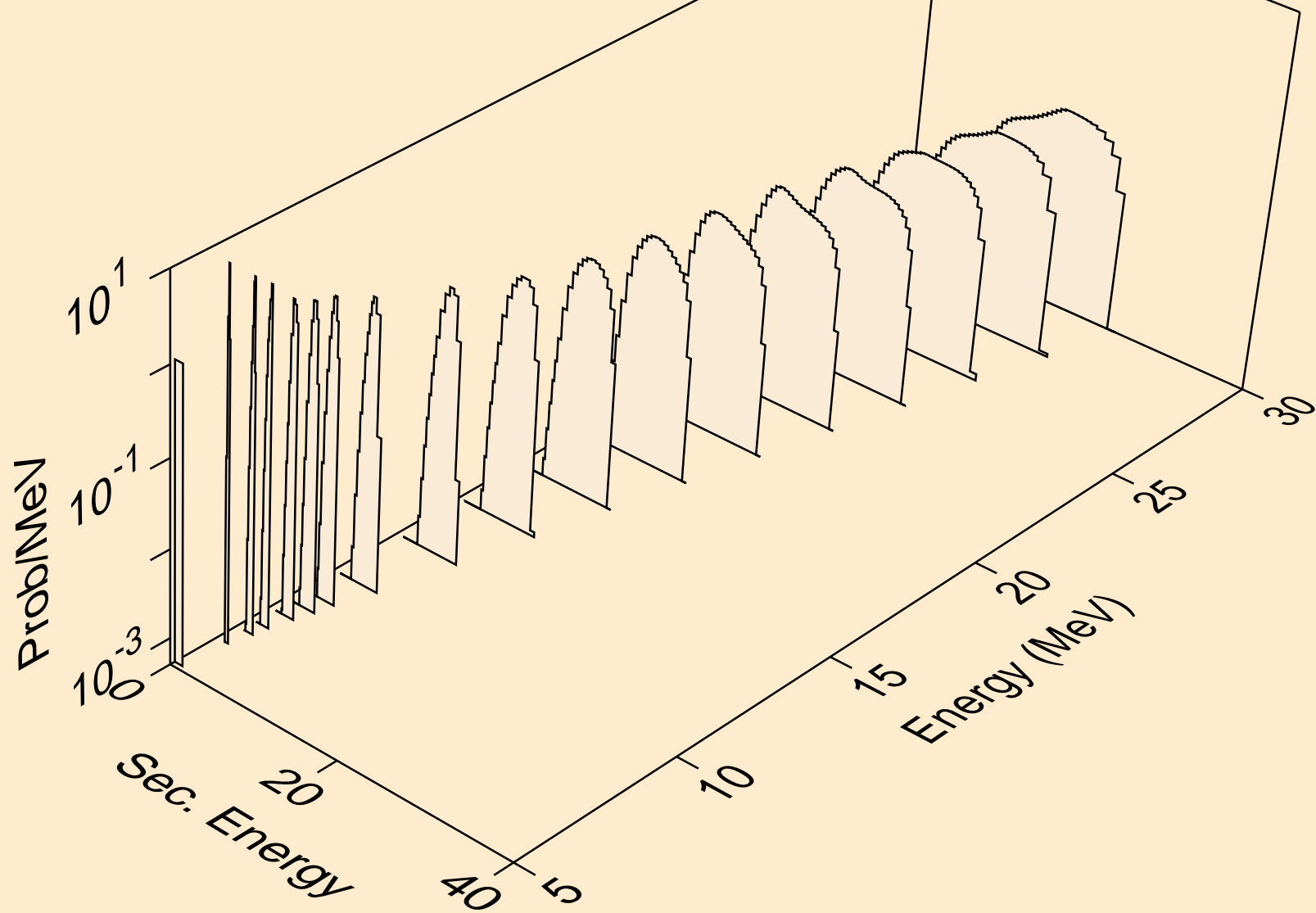


YB163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
protons from (n,x)

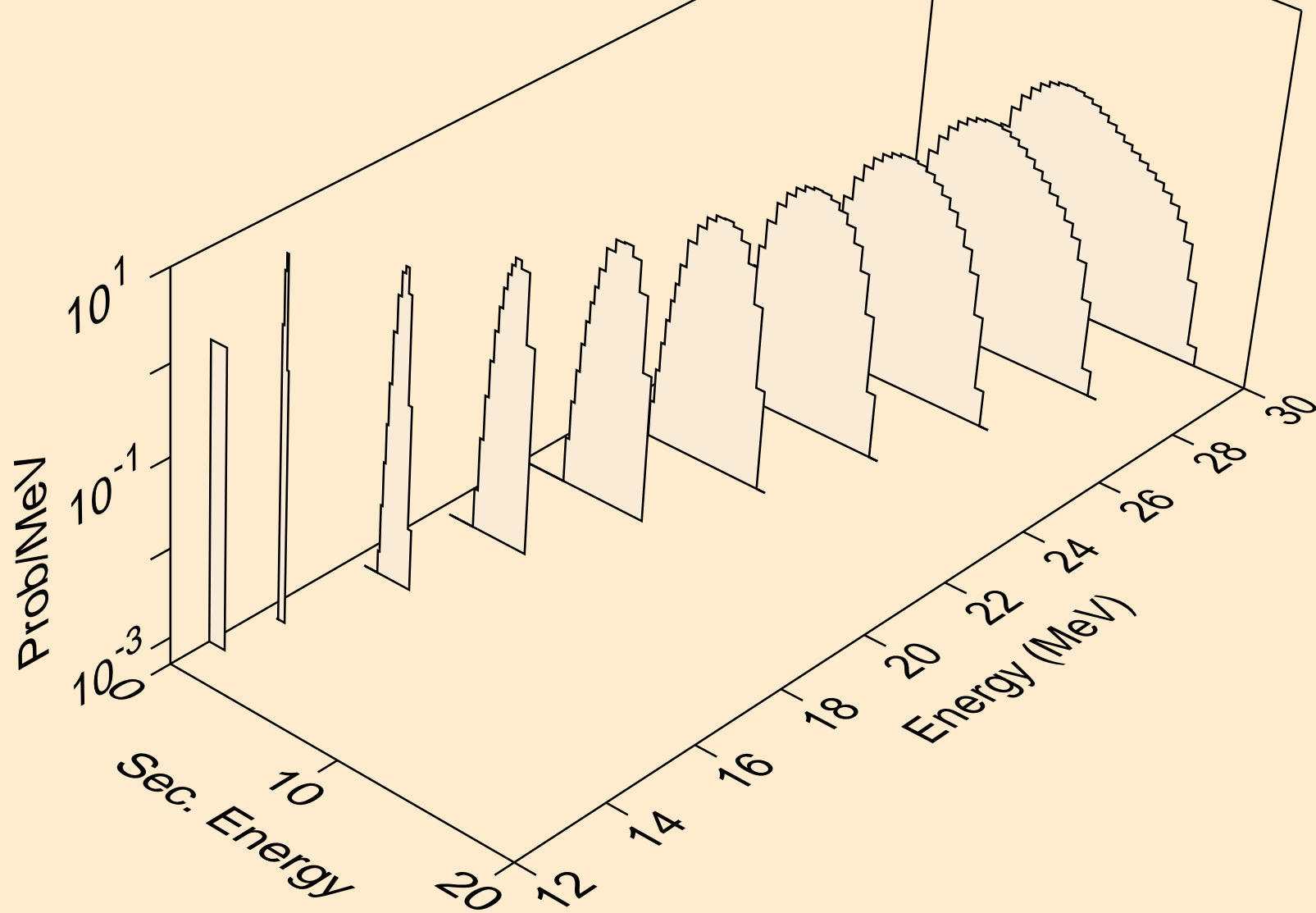




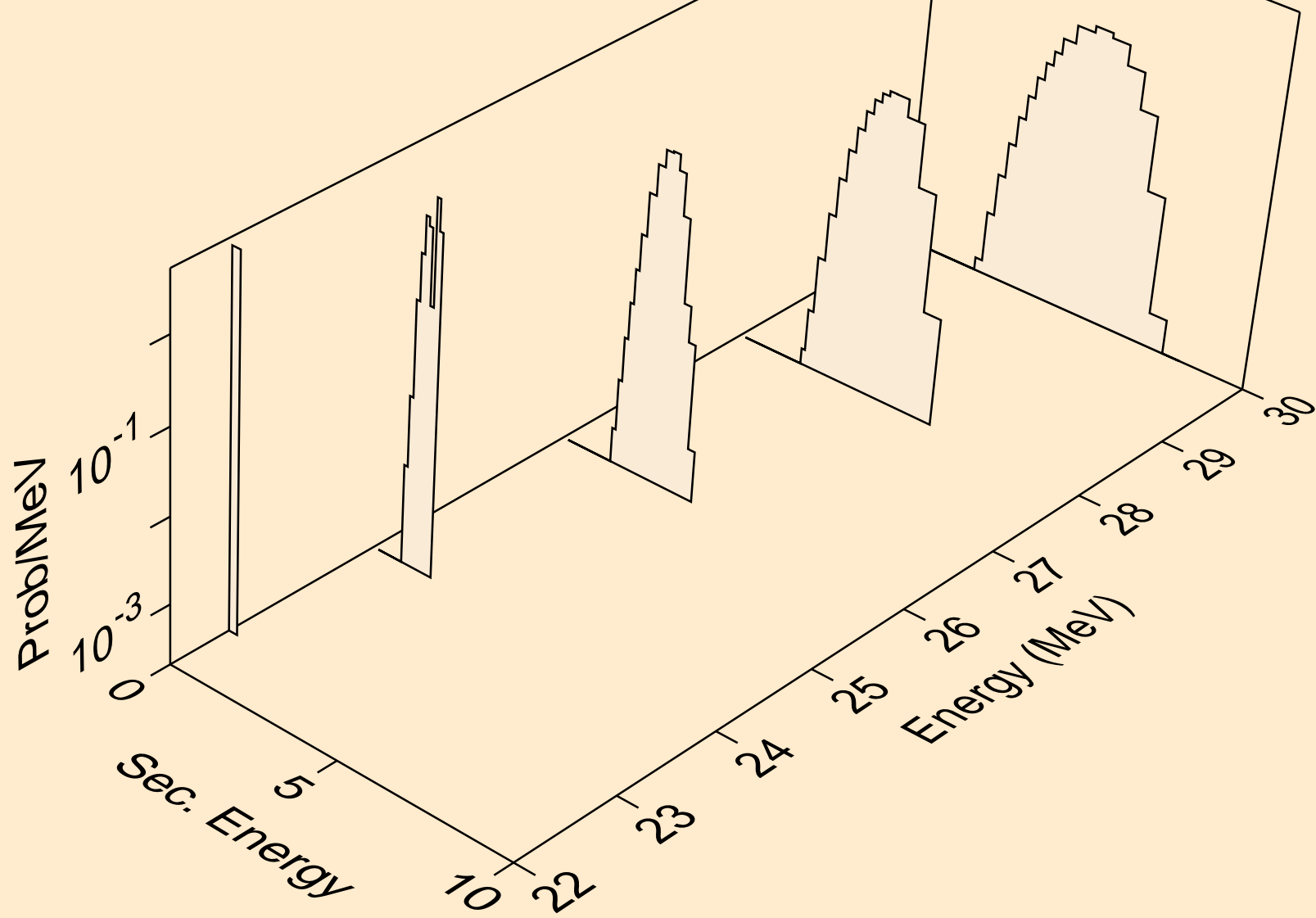
YB163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
protons from (n,n\*)p



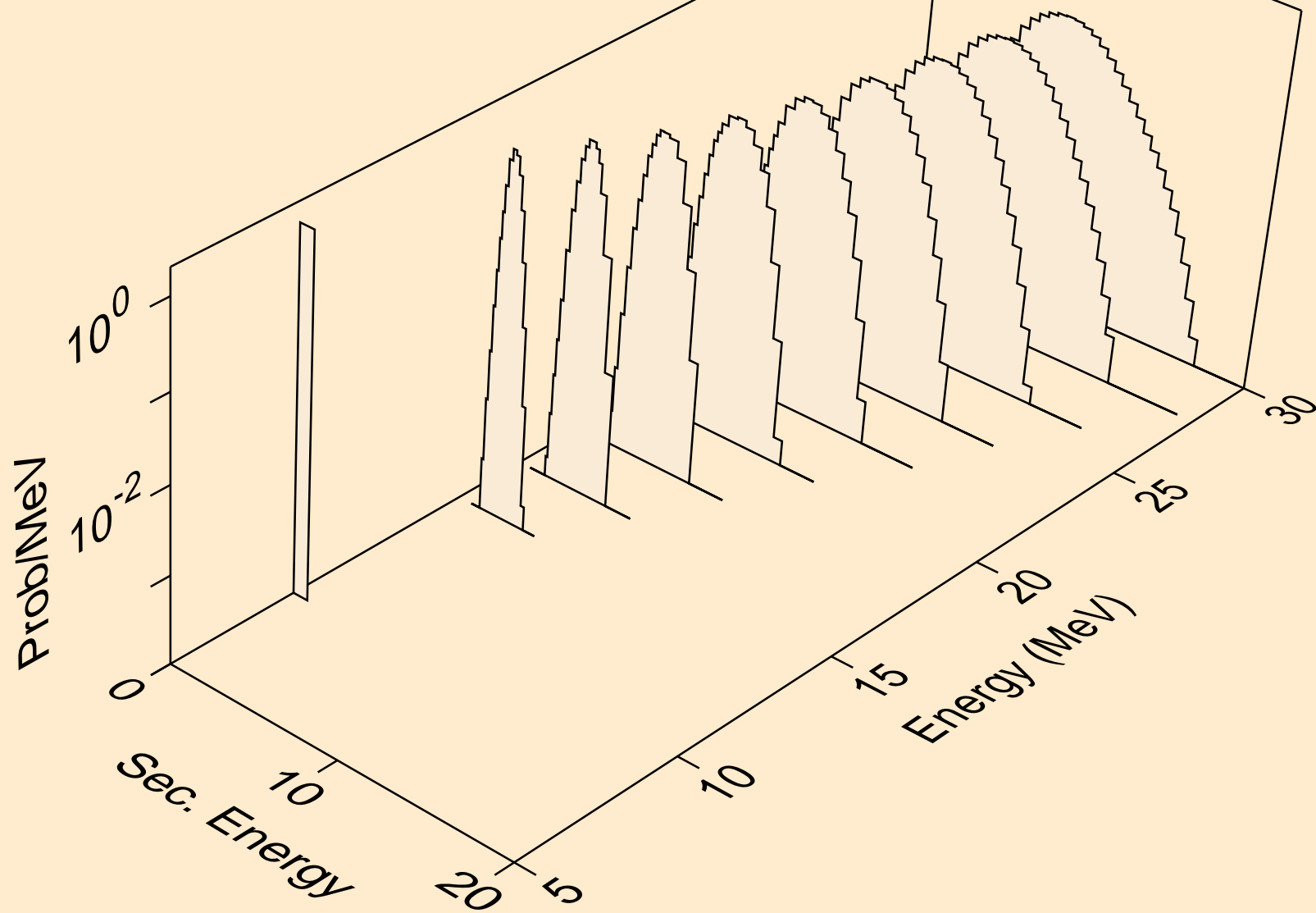
YB163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
protons from (n,2np)



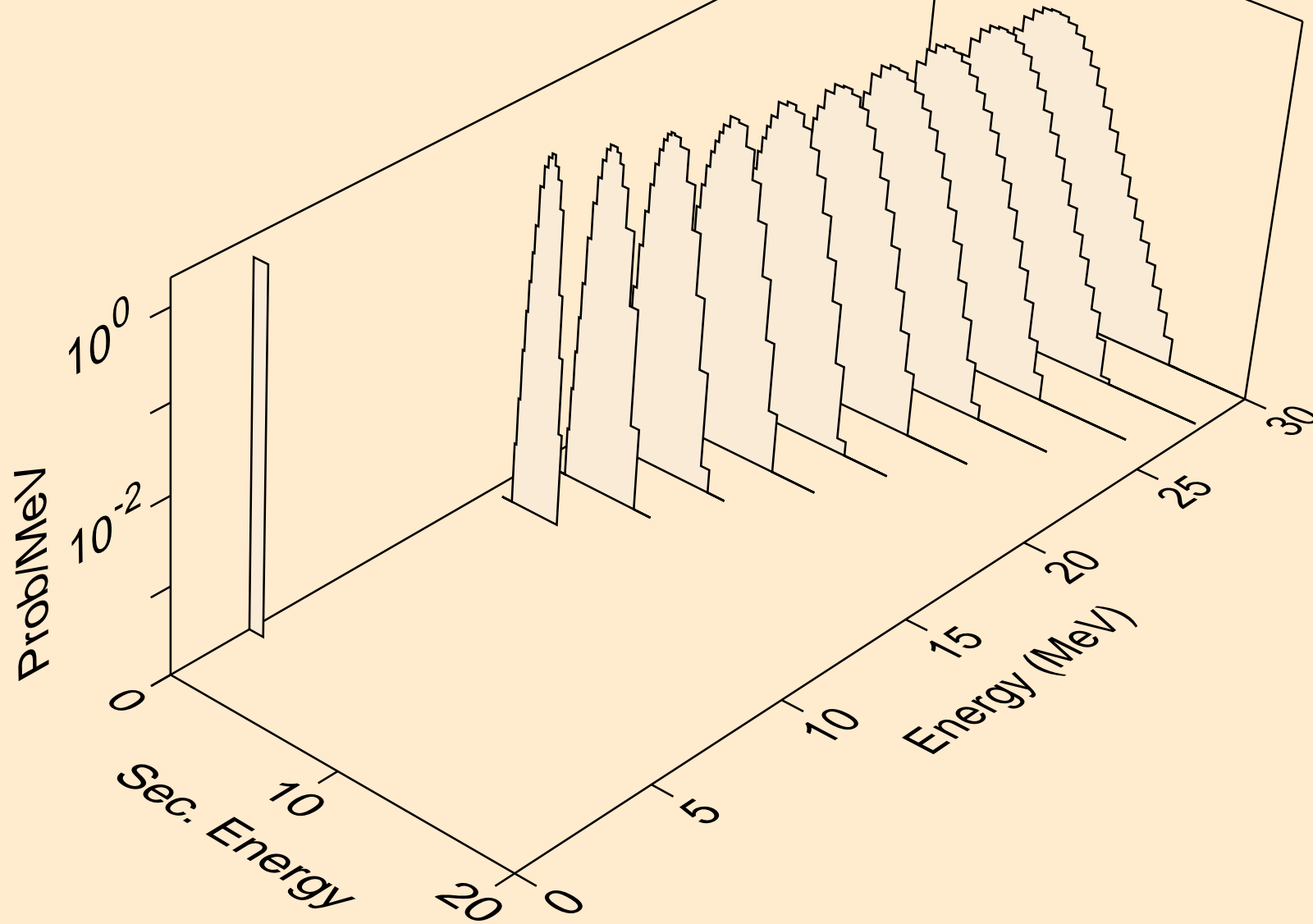
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protons from (n,3np)



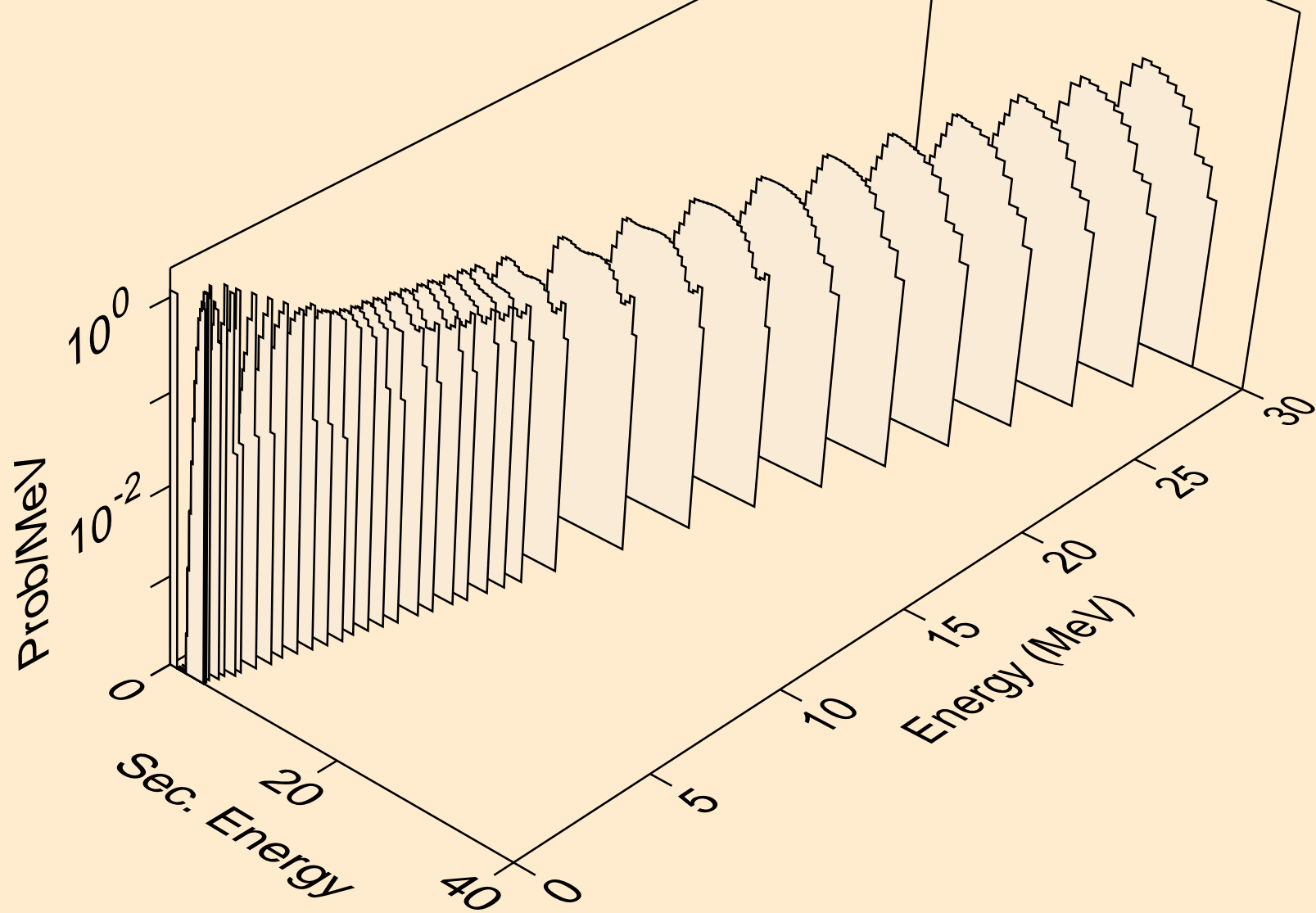
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protons from (n,n2p)



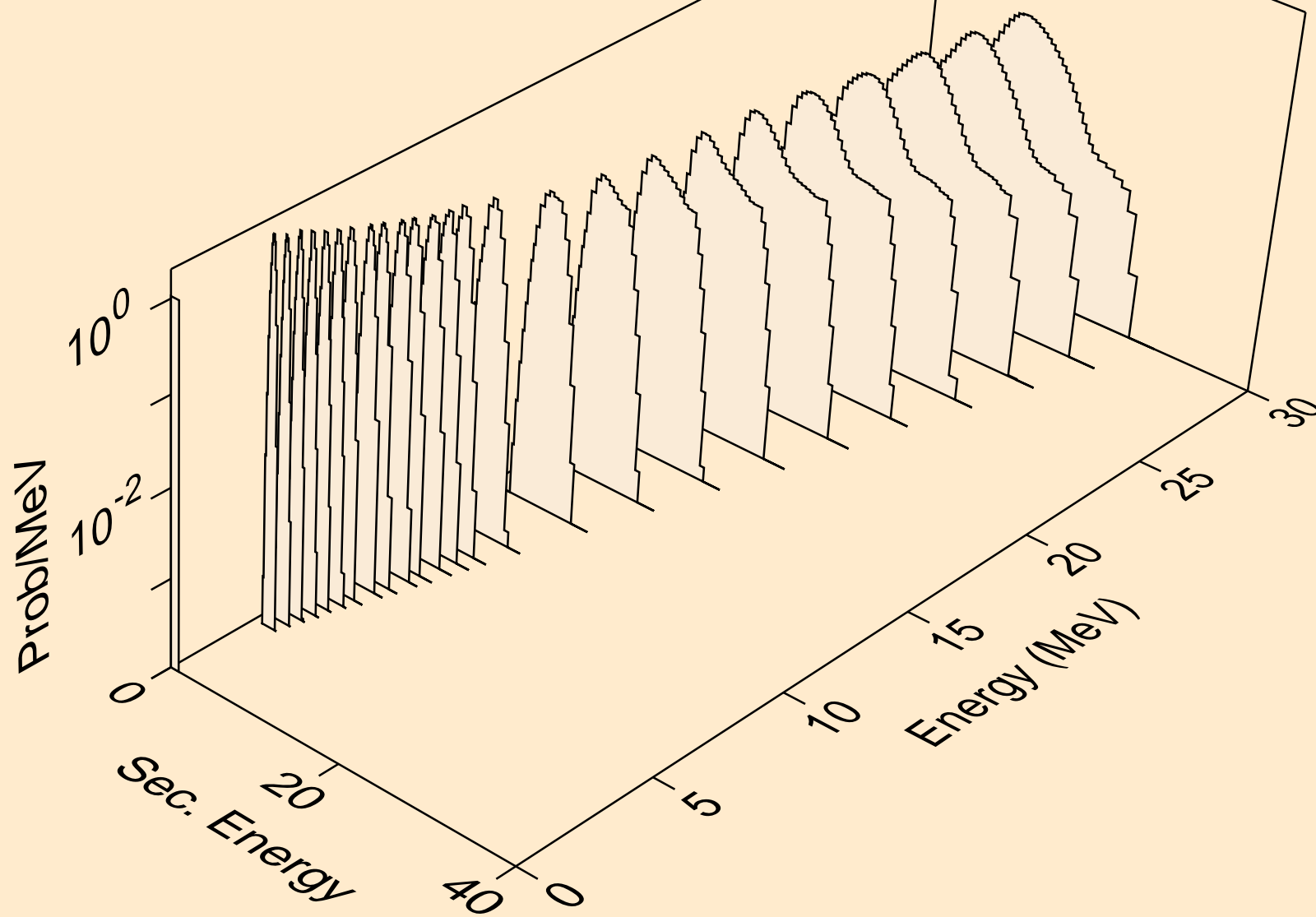
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protons from (n,npa)



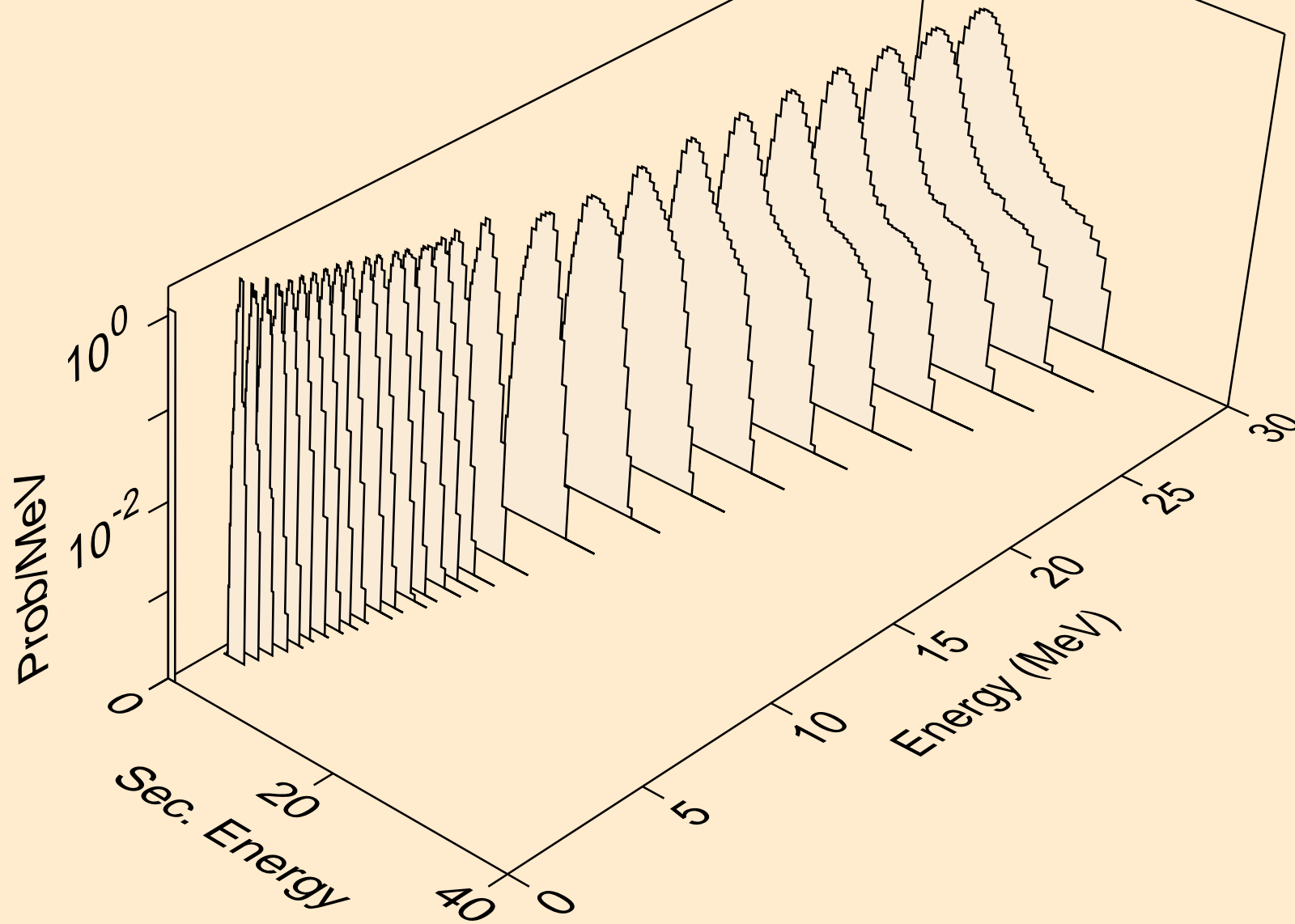
YB163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
protons from (n,p)



YB163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
protons from (n,2p)

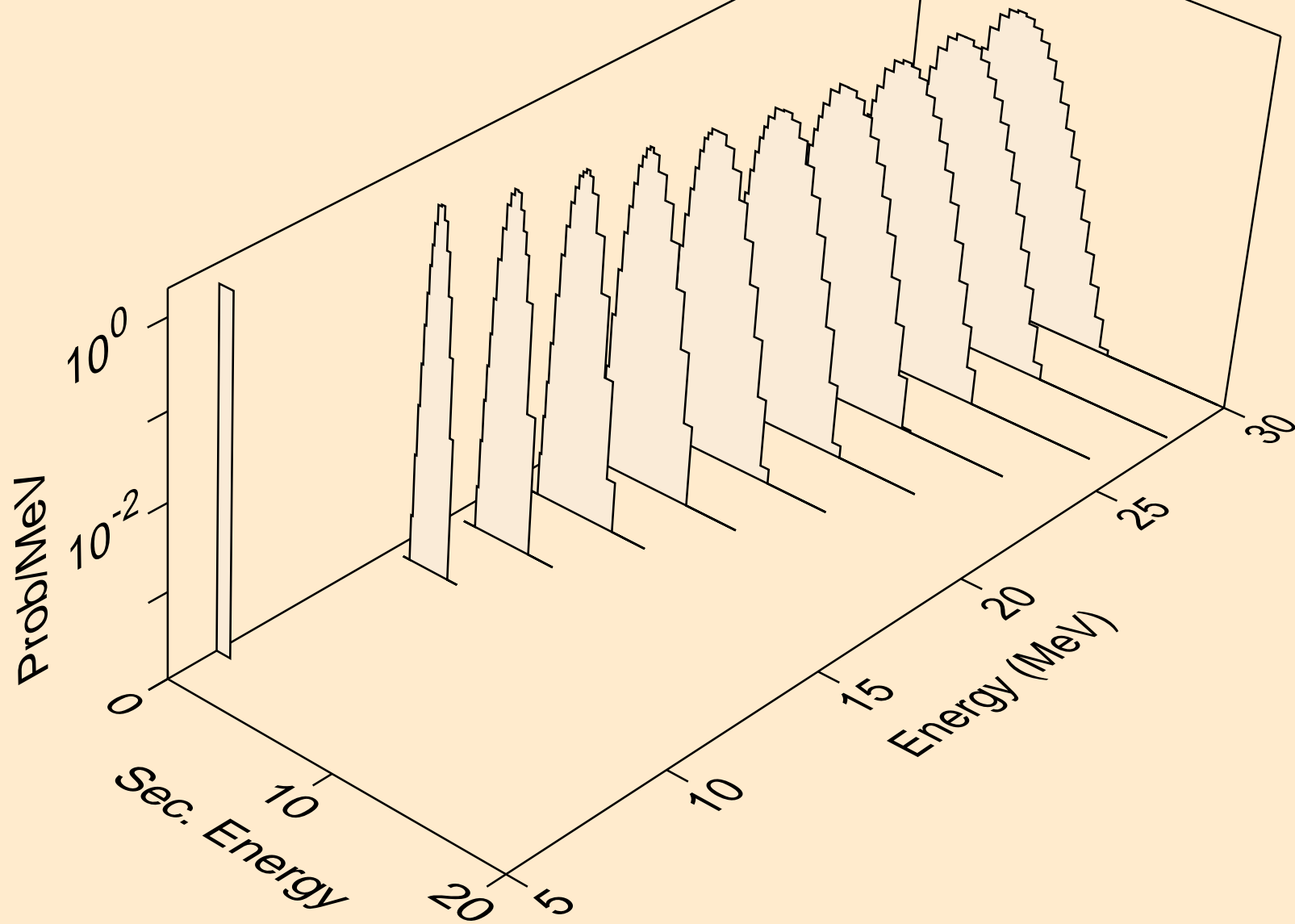


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protons from (n,p)

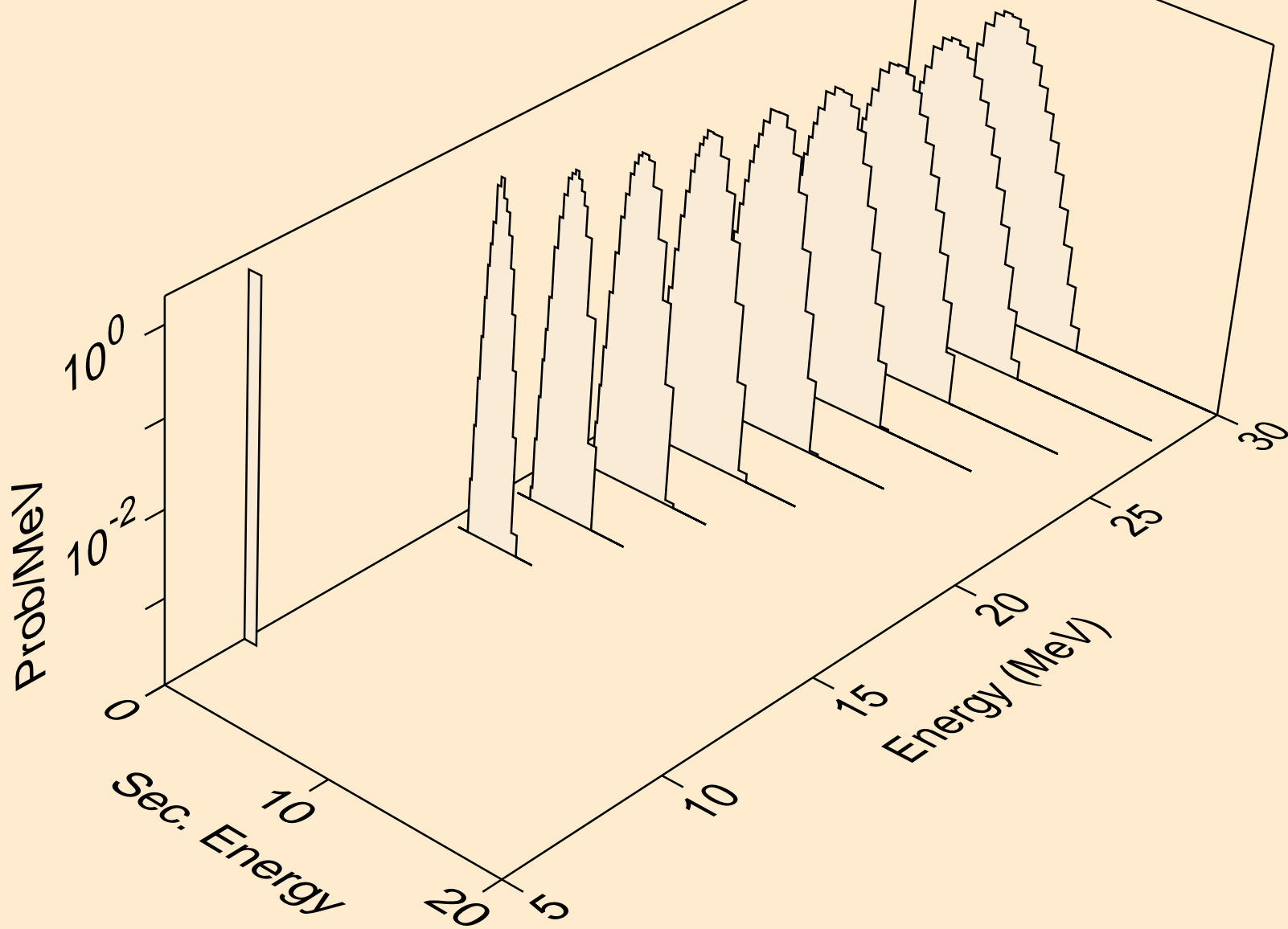




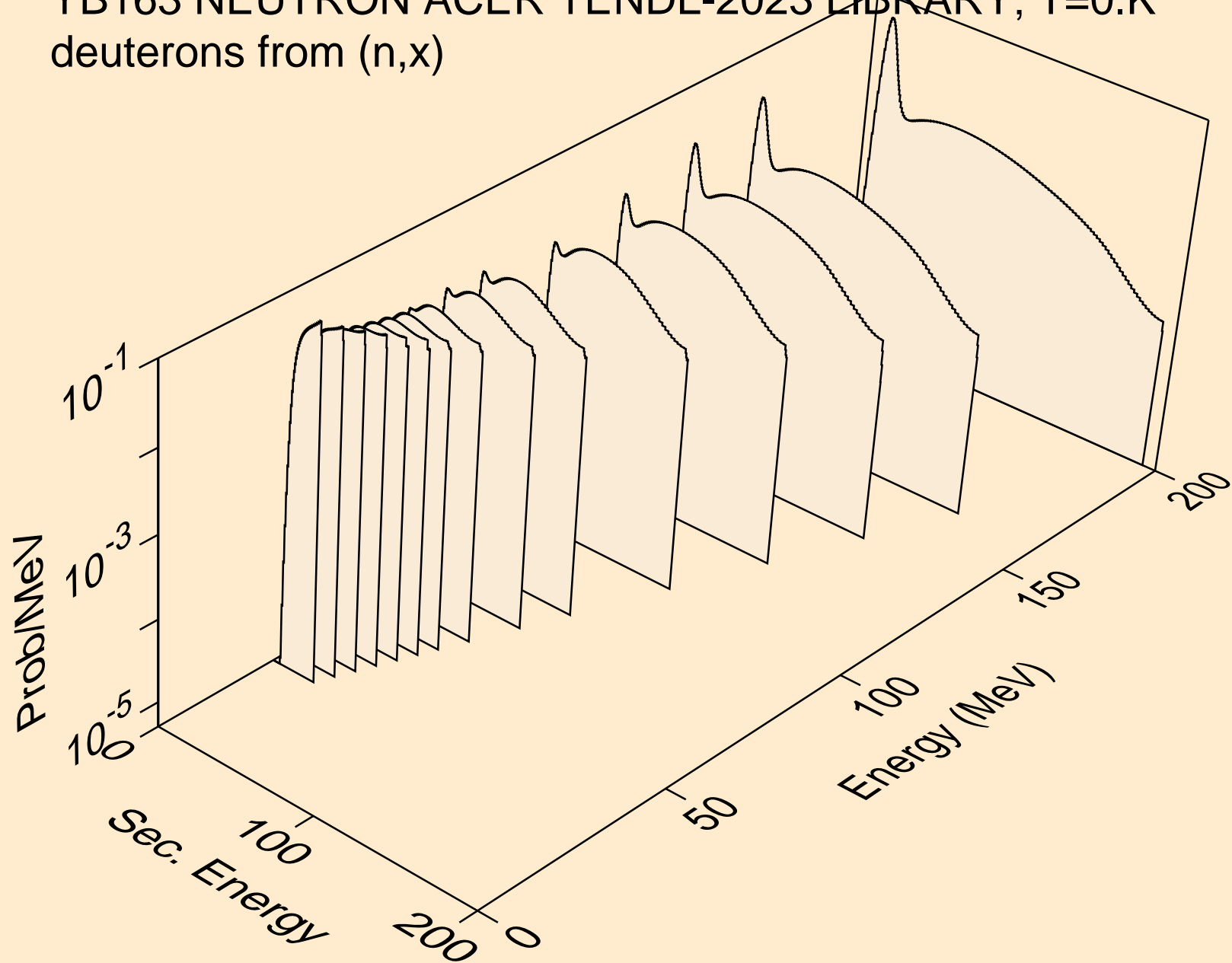
YB163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
protons from (n,pd)



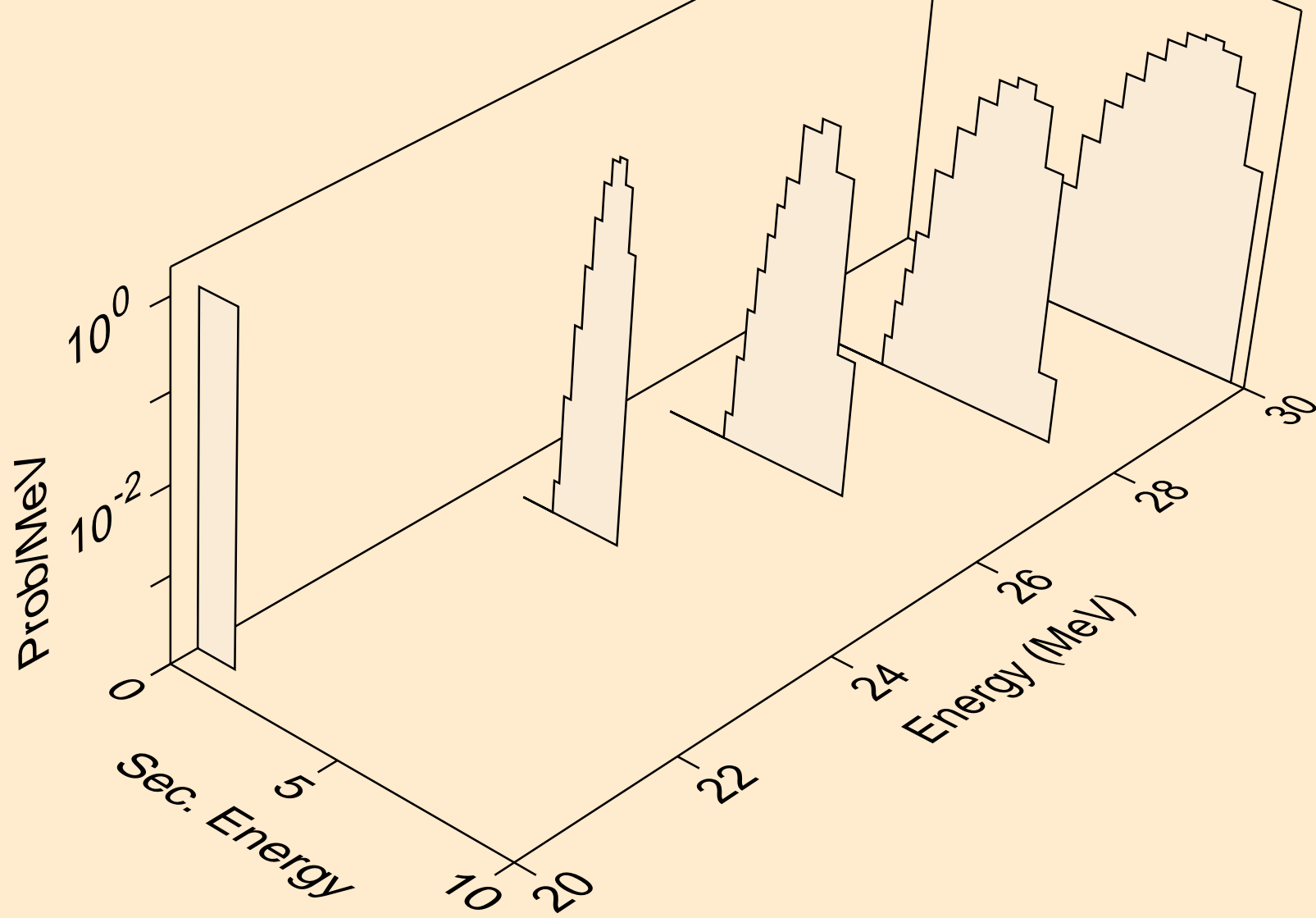
YB163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
protons from (n,pt)



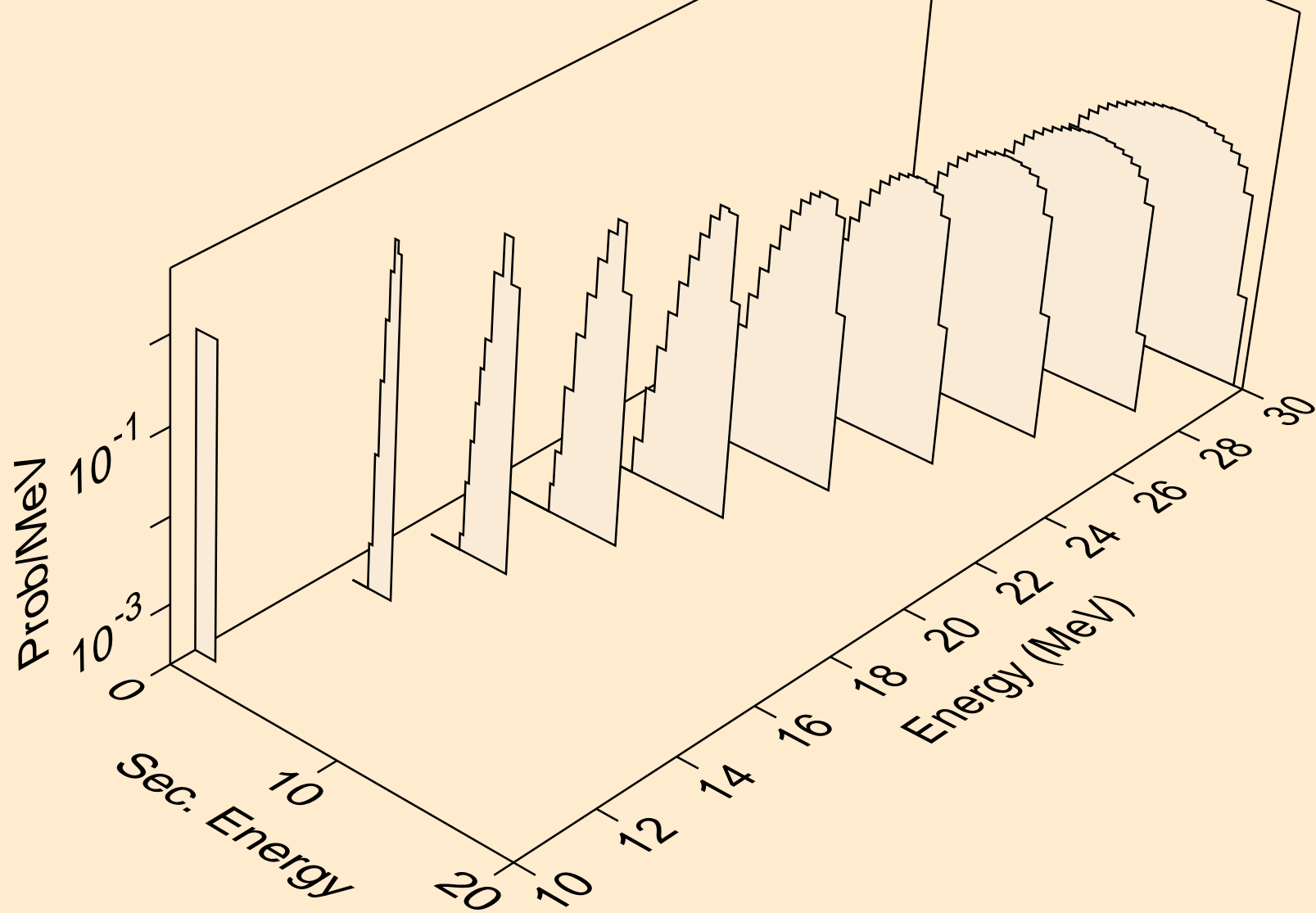
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deuterons from (n,x)



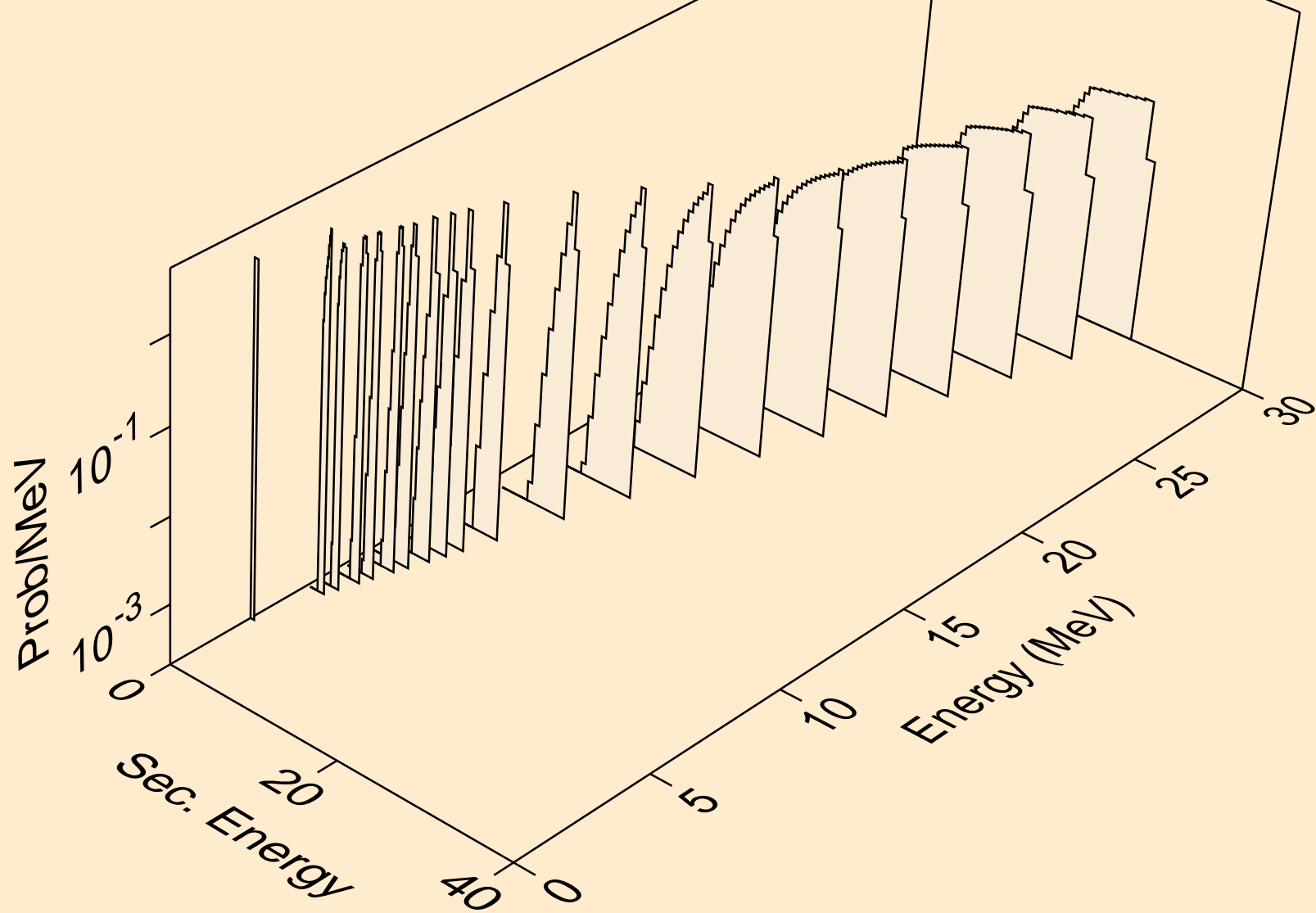
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deuterons from (n,2nd)



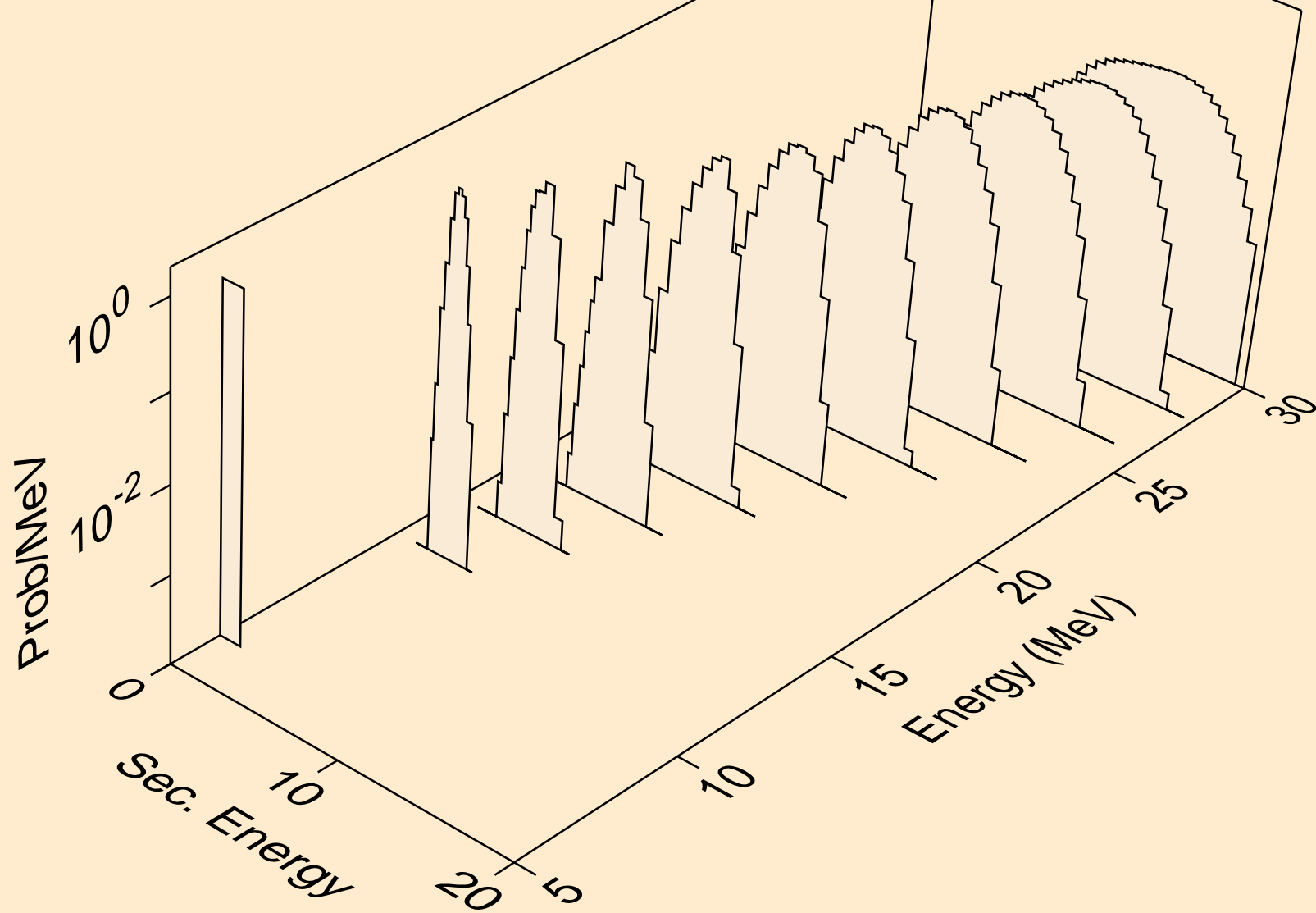
YB163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
deuterons from (n,n\*)d



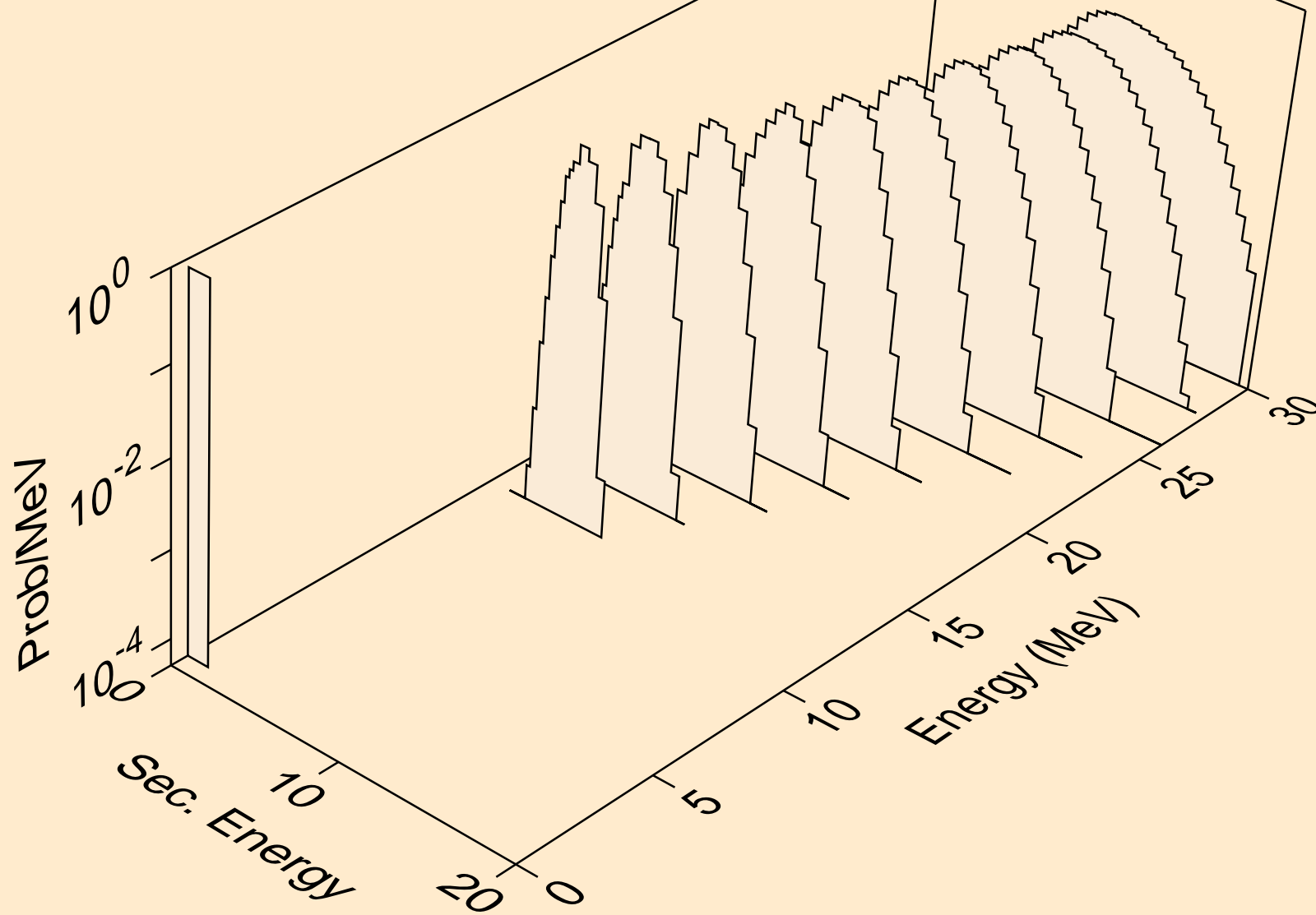
YB163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
deuterons from (n,d)



YB163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
deuterons from (n,pd)

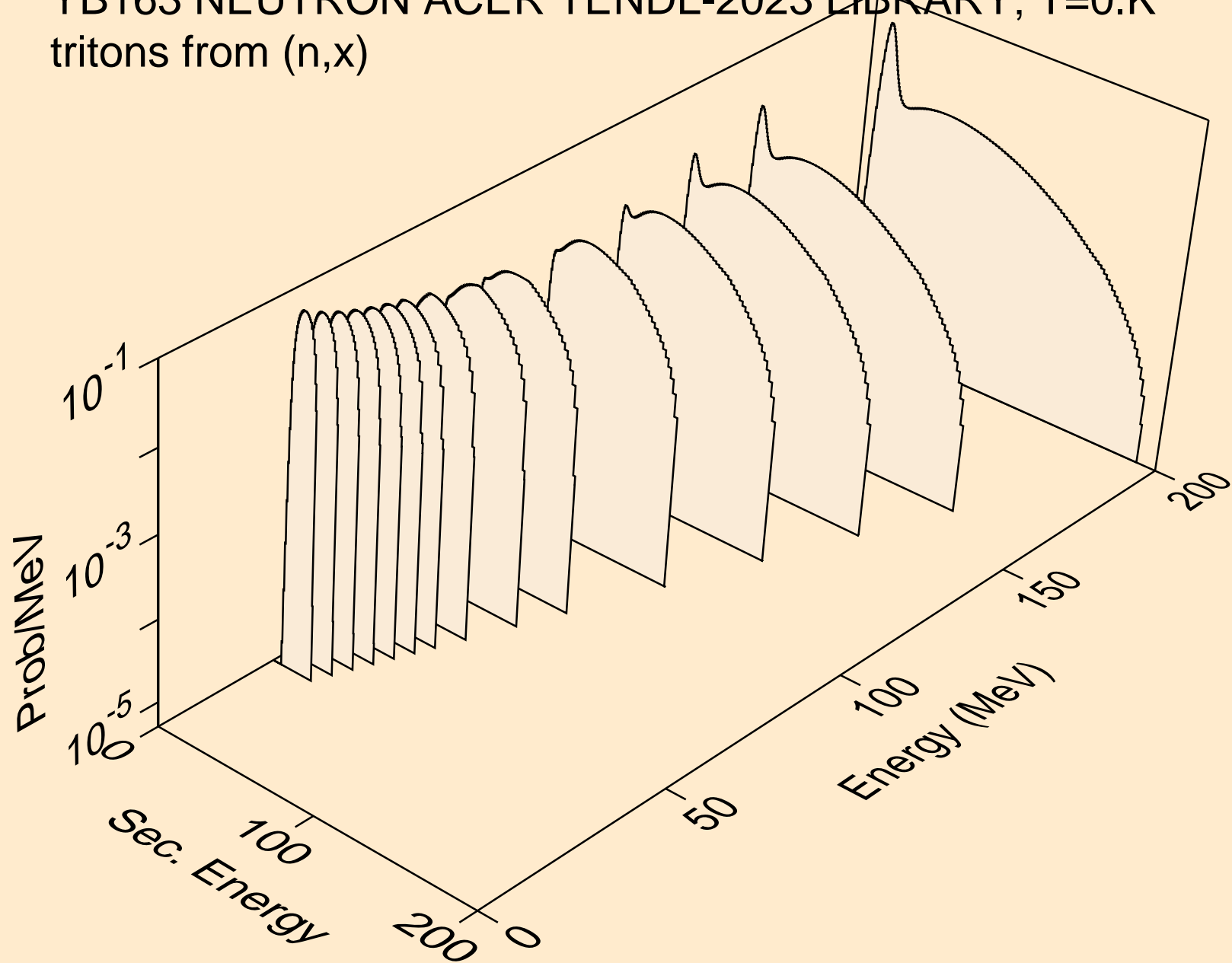


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deuterons from (n,da)

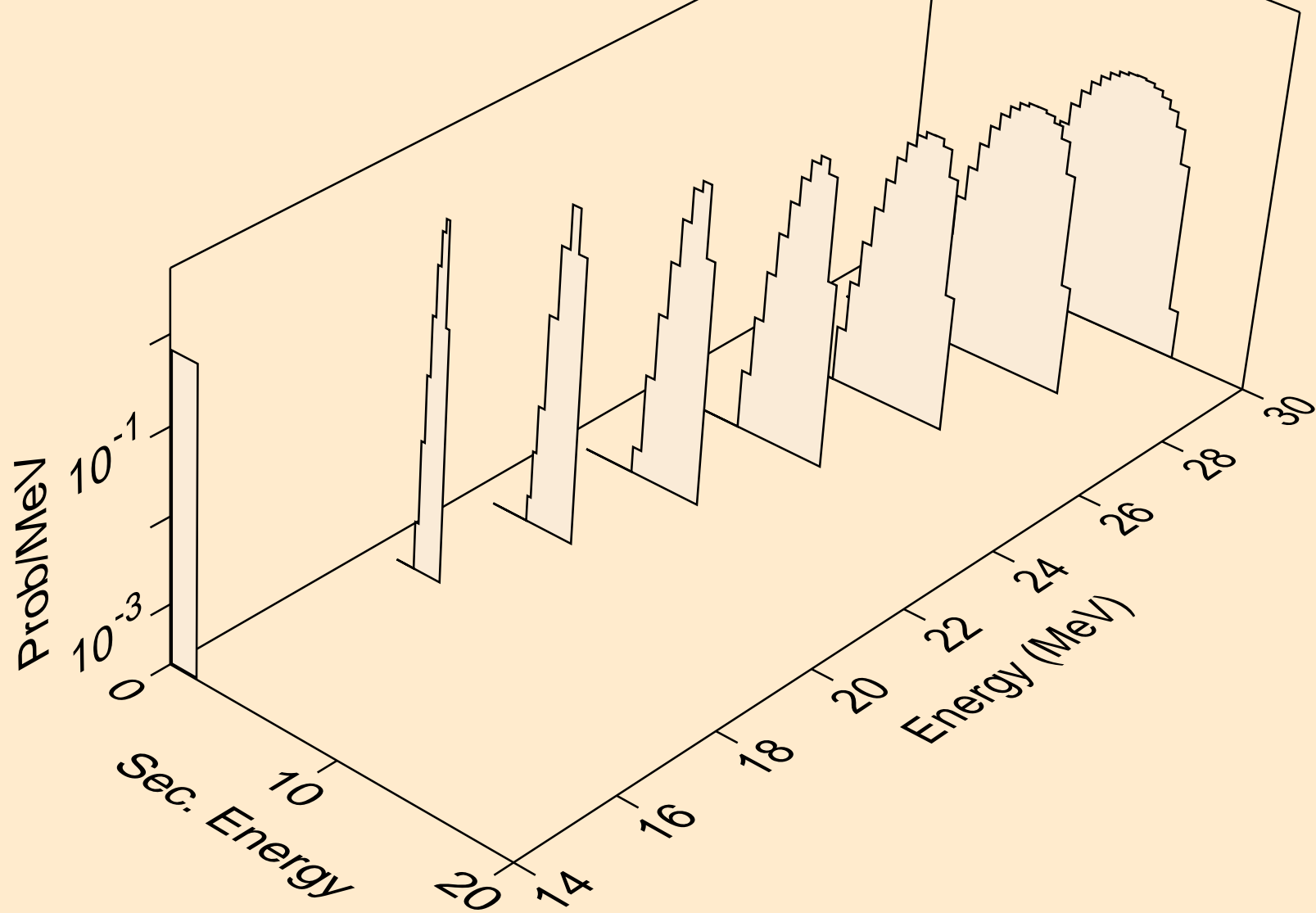




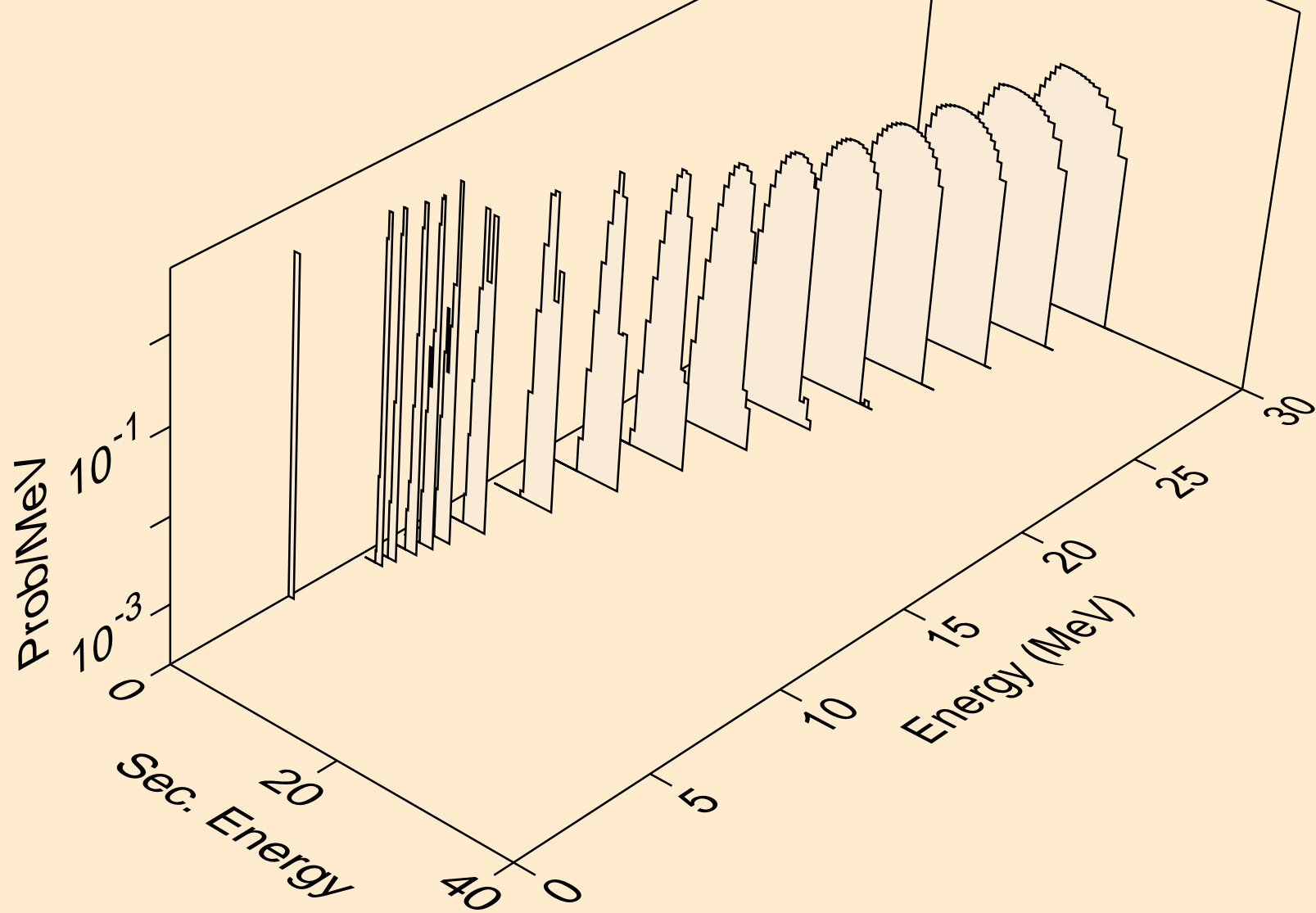
YB163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
tritons from (n,x)



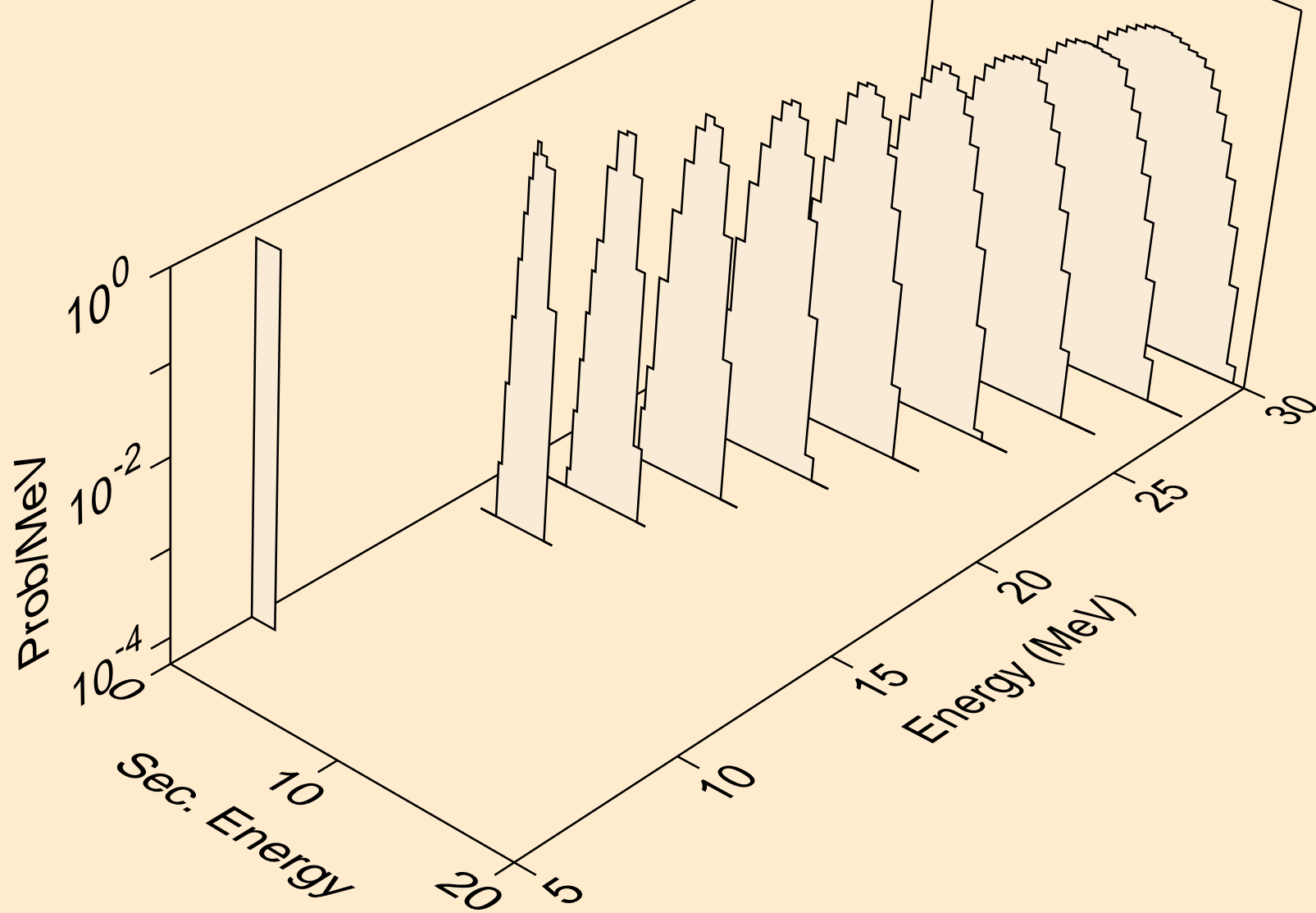
YB163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
tritons from (n,n\*)t



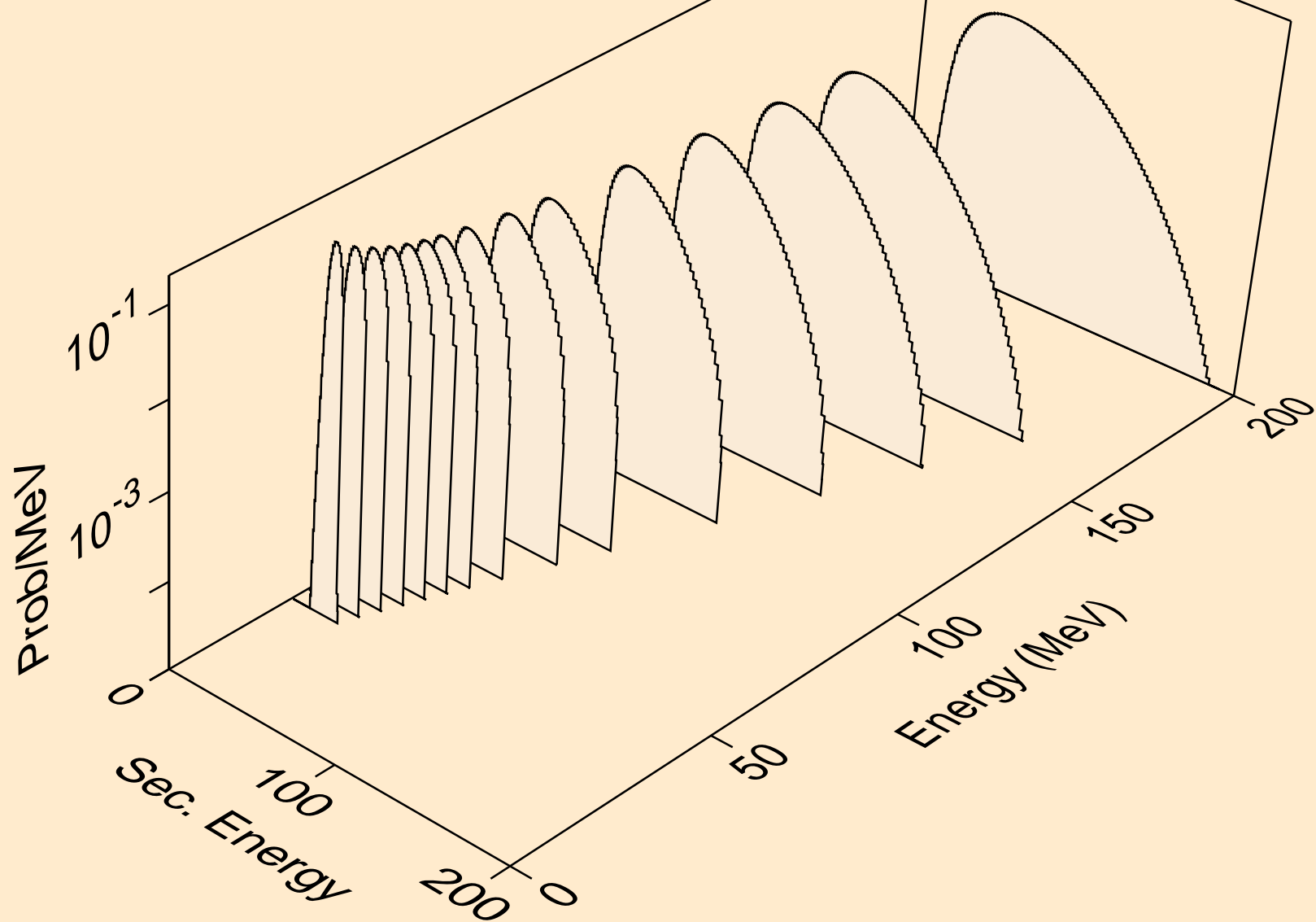
YB163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
tritons from (n,t)



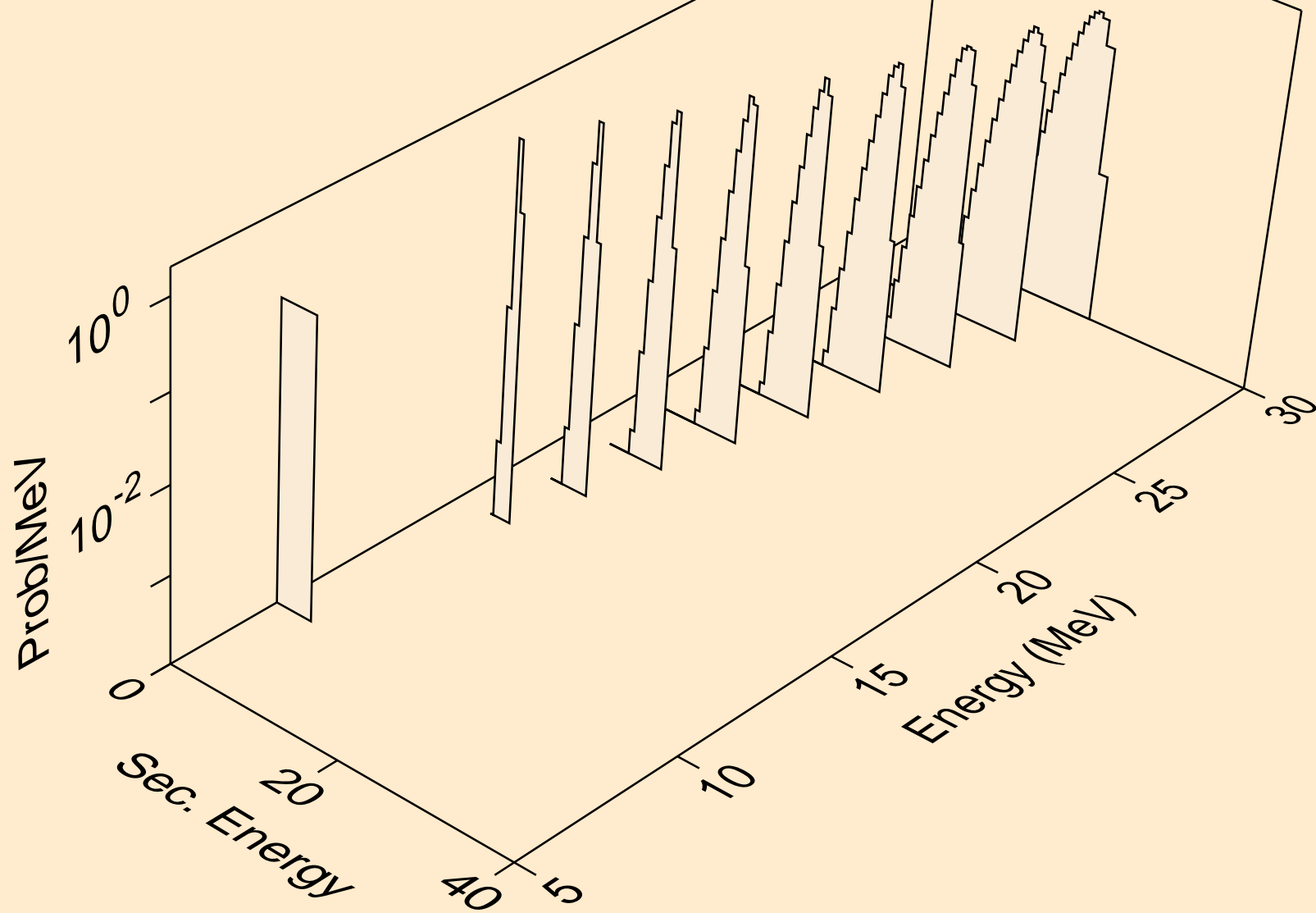
YB163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
tritons from (n,pt)



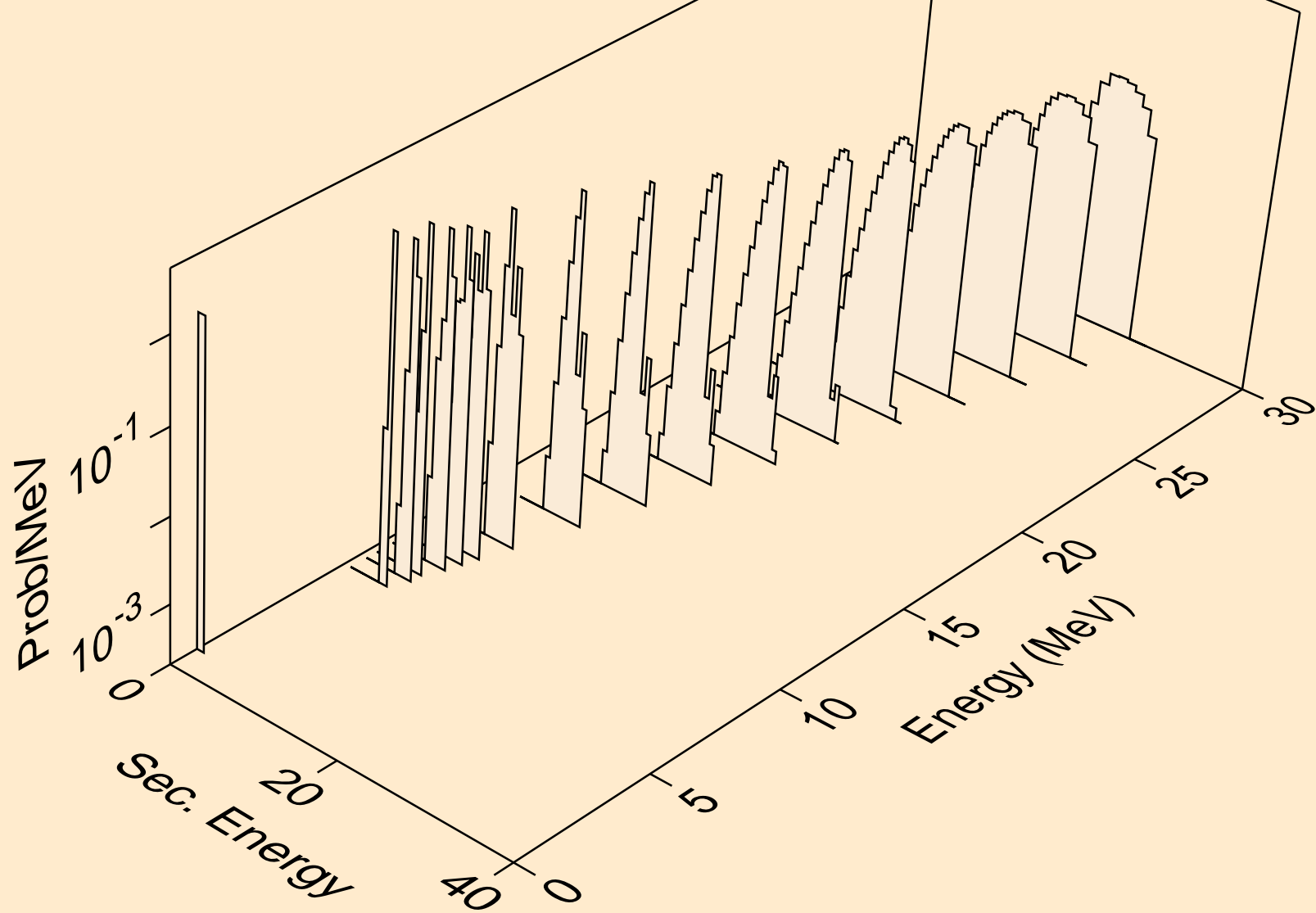
YB163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
he3s from (n,x)



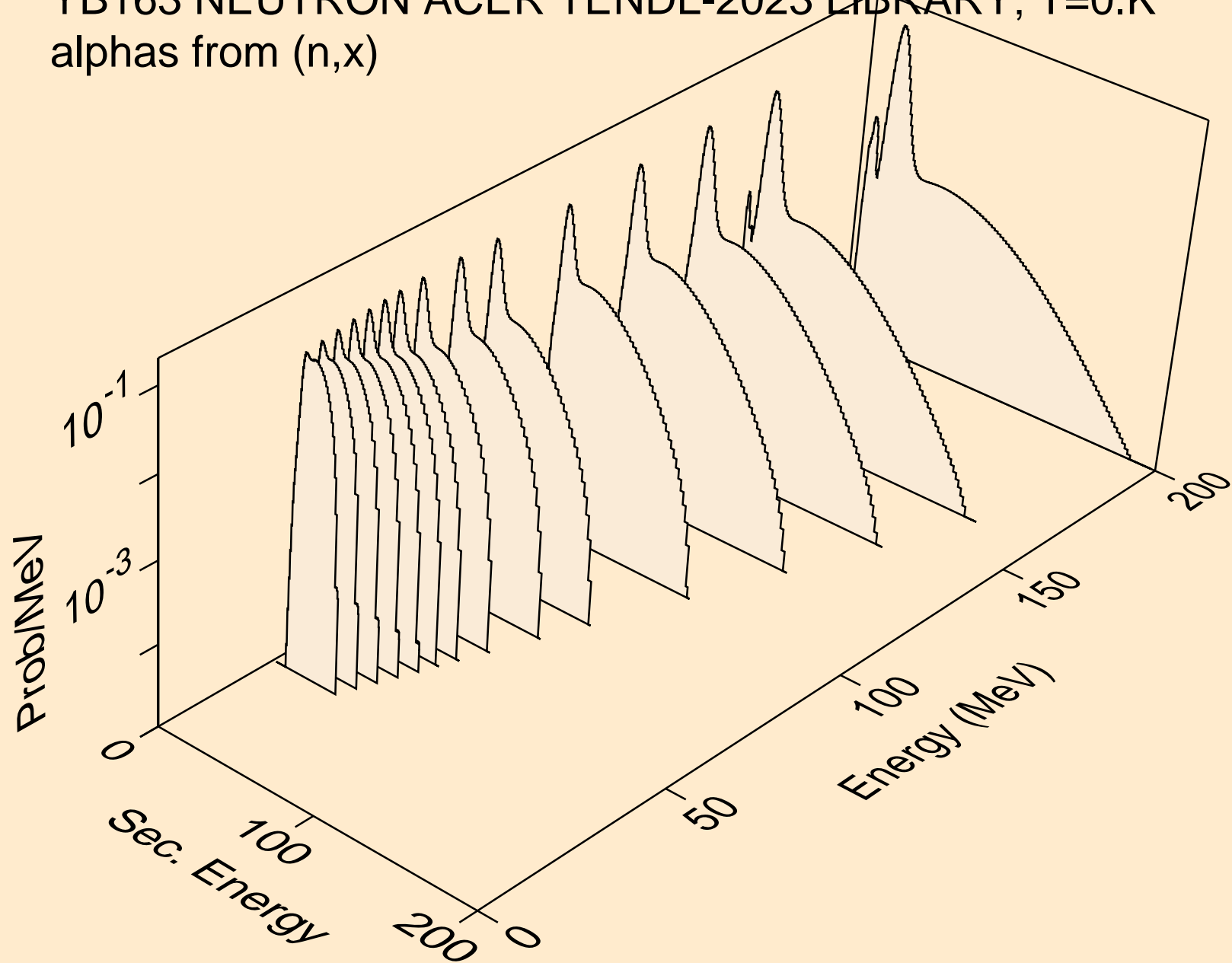
YB163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
he3s from (n,n\*)he3



YB163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
he3s from (n,he3)

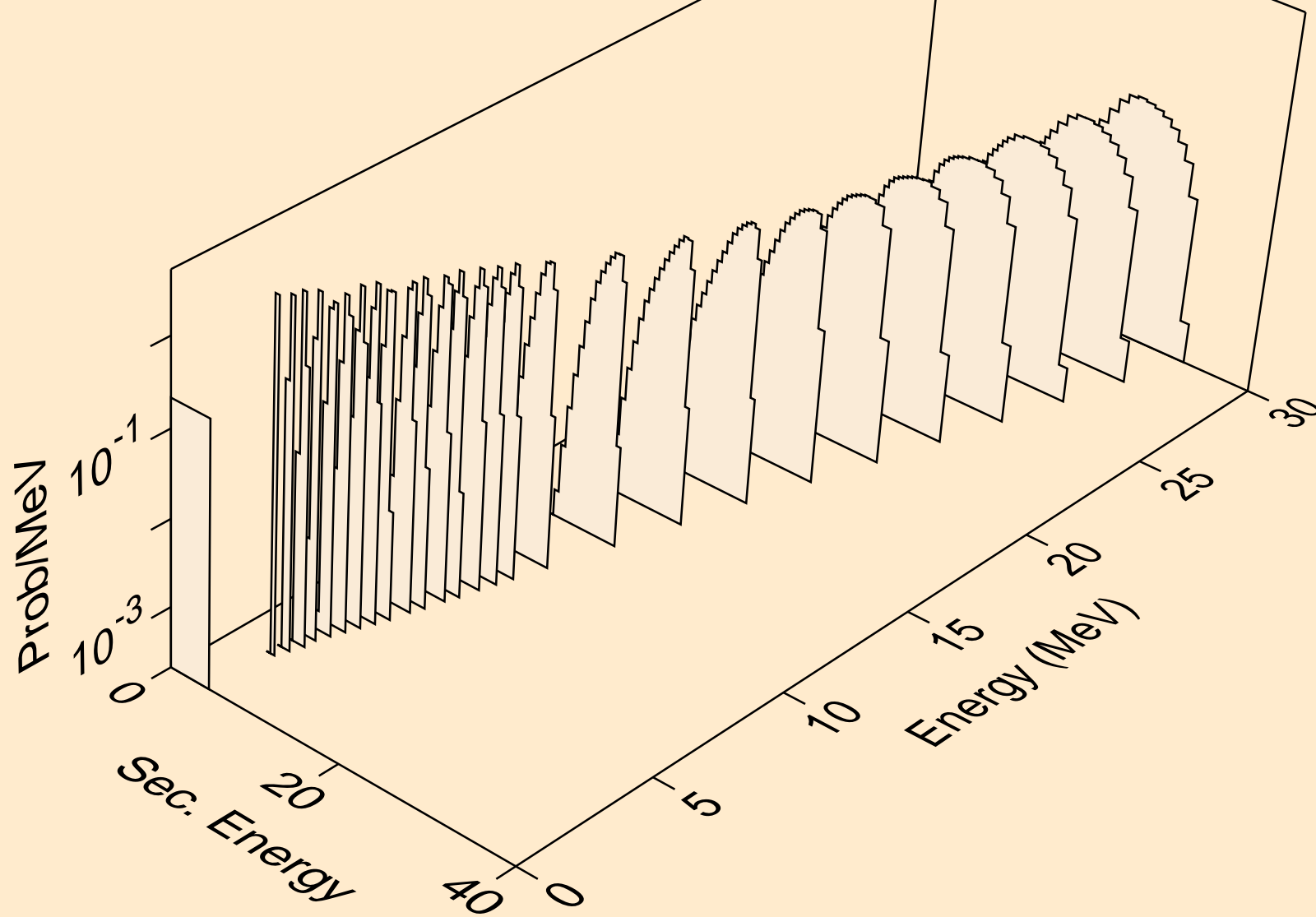


YB163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,x)

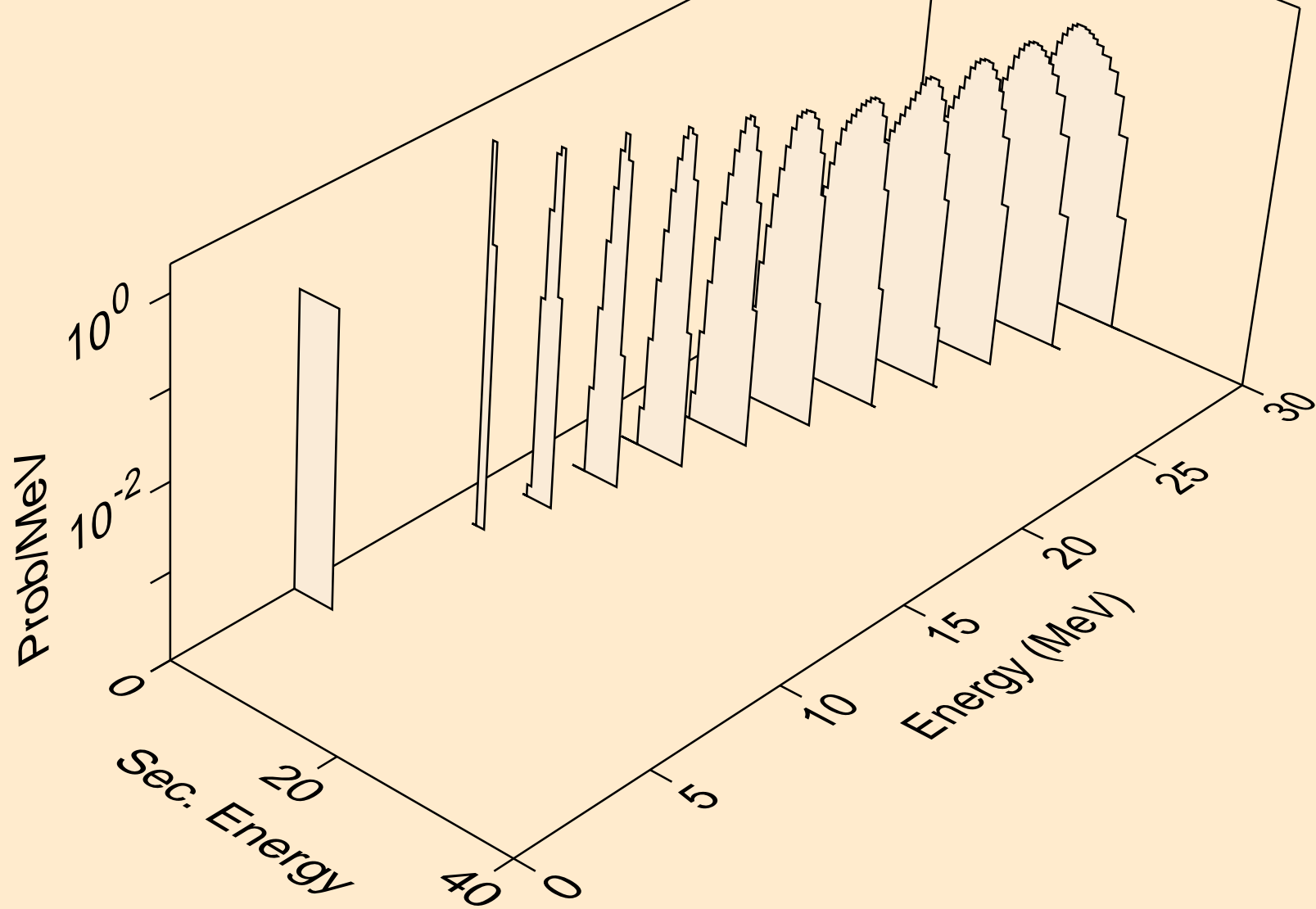




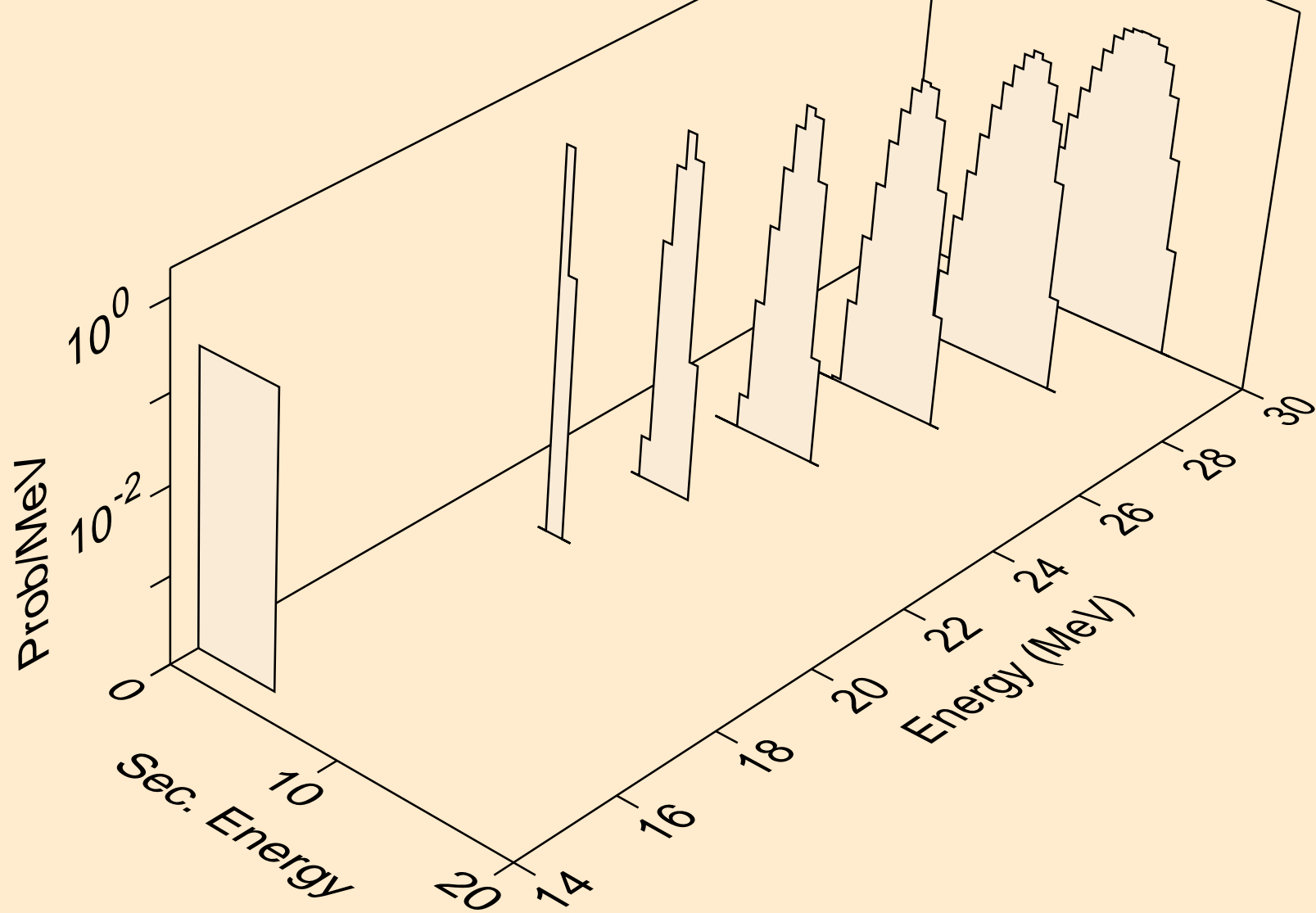
YB163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,n\*)a



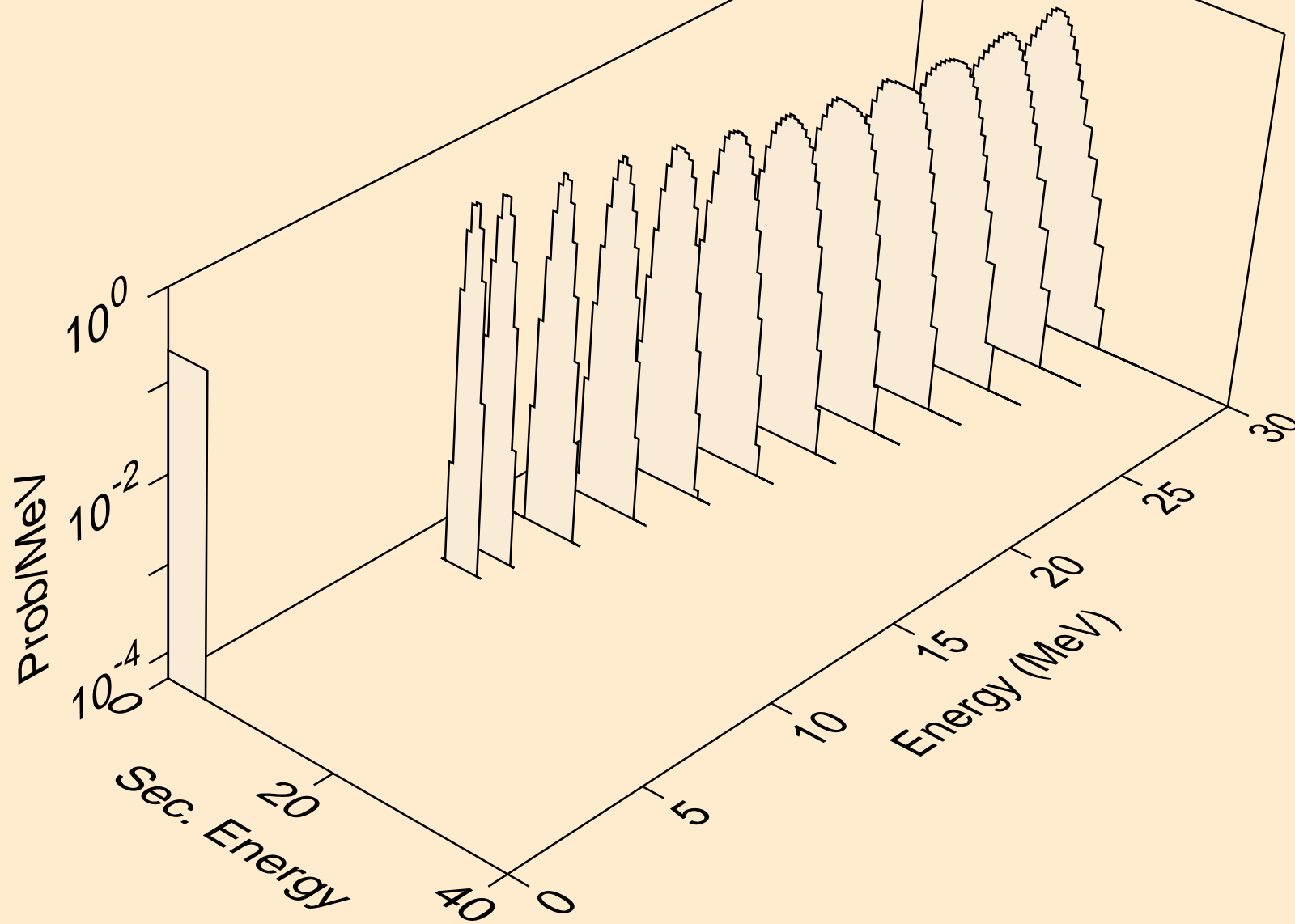
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alphas from (n,2n)a



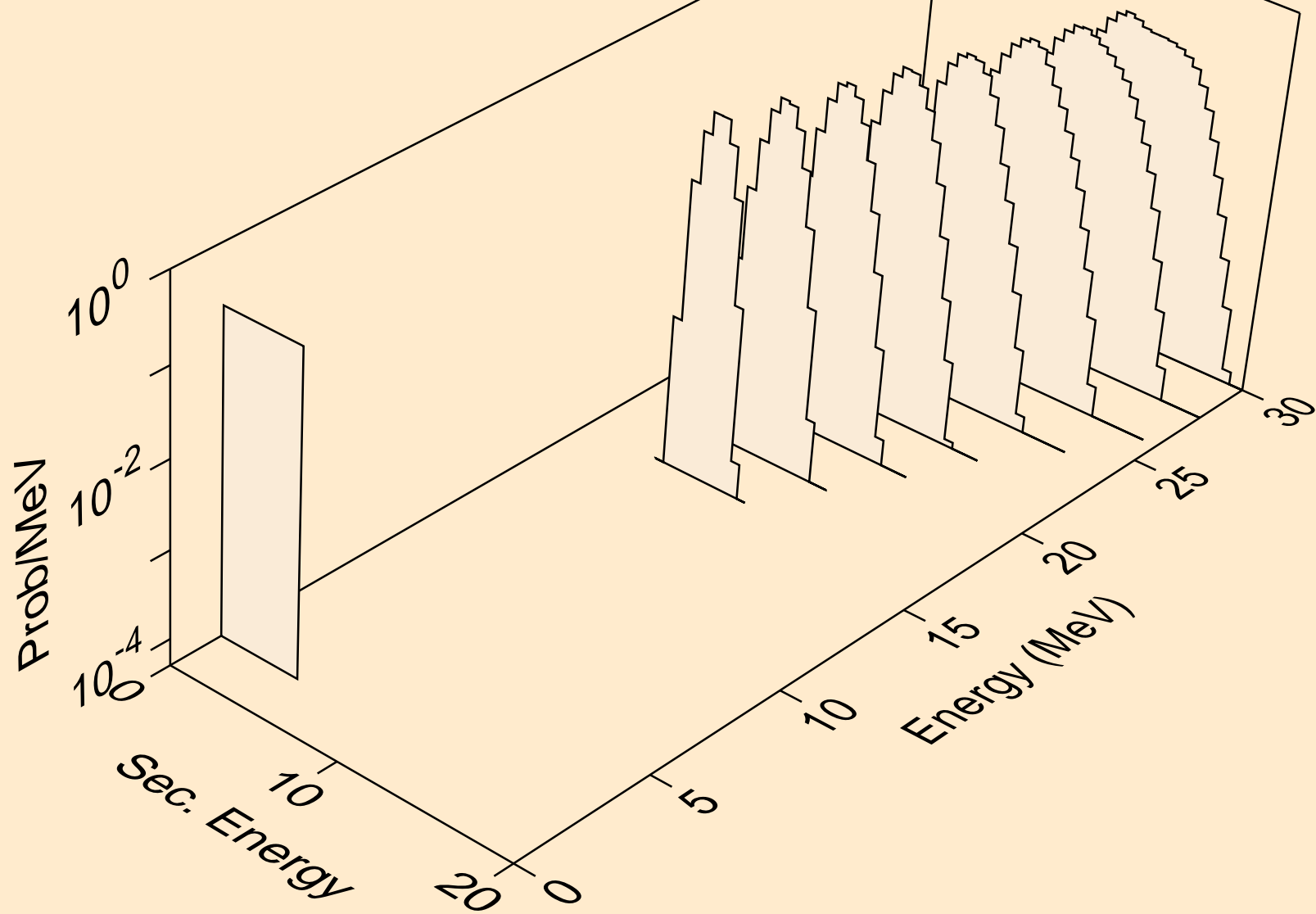
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alphas from (n,3n)a



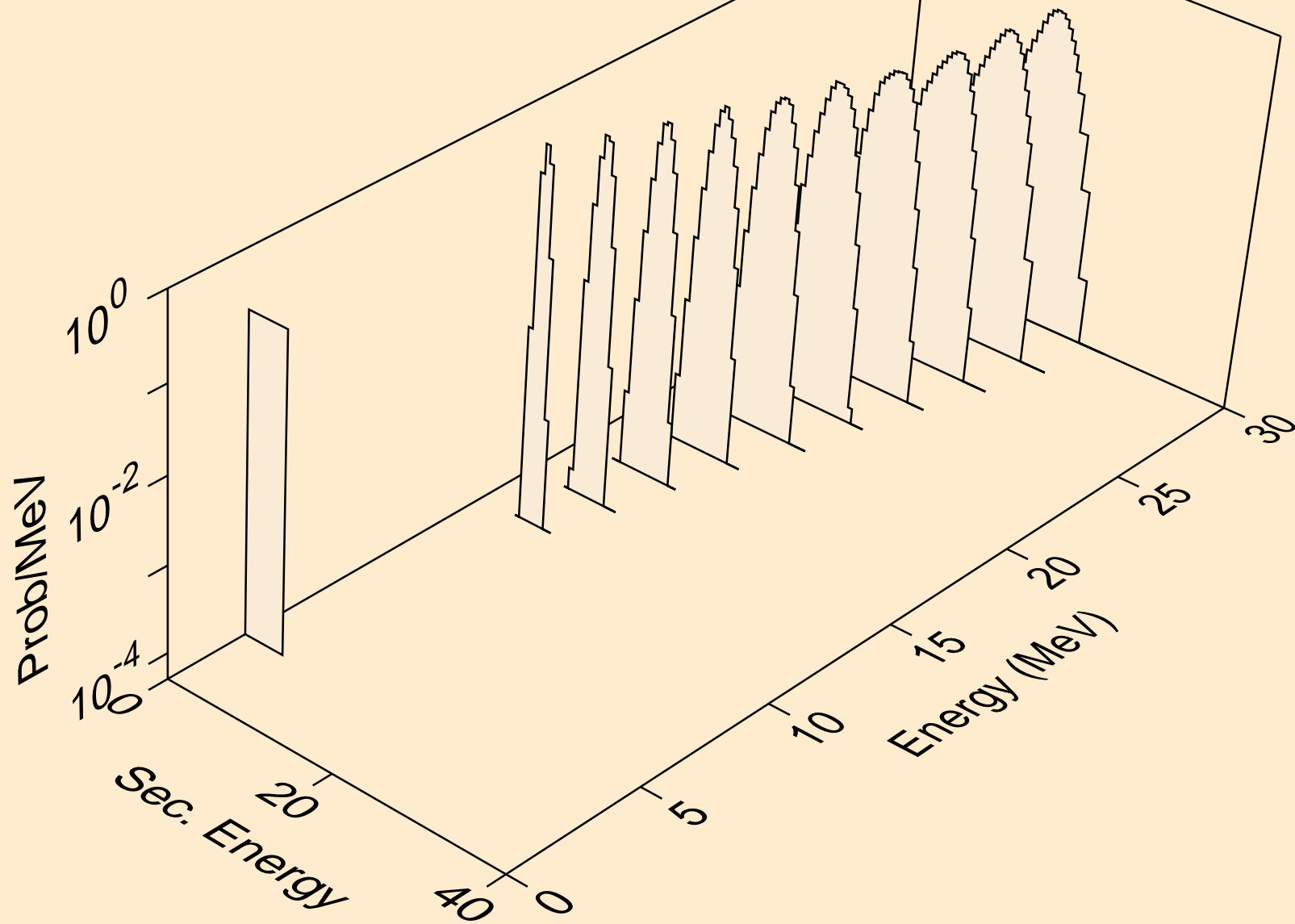
YB163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,n\*)2a



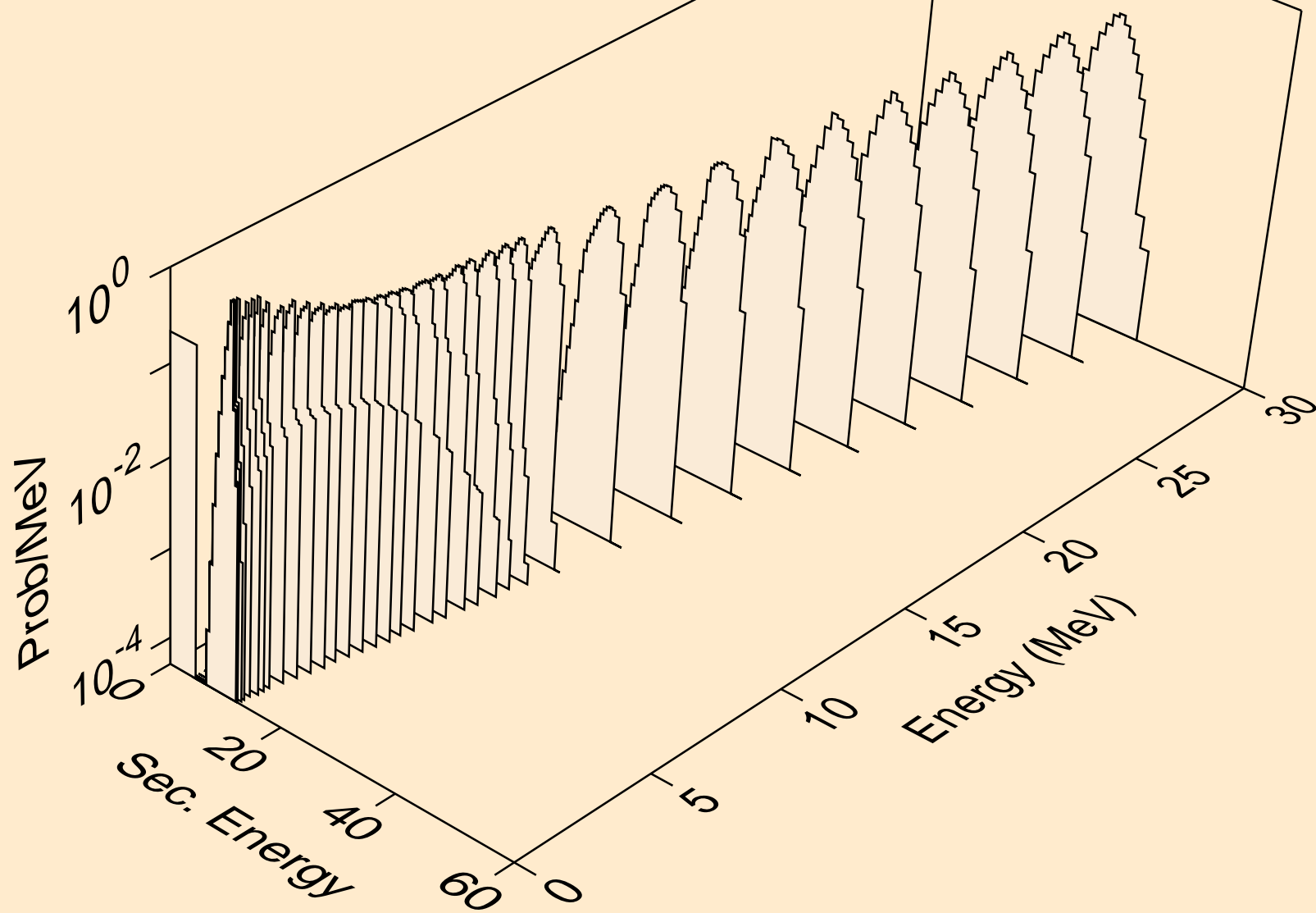
YB163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,2n)2a



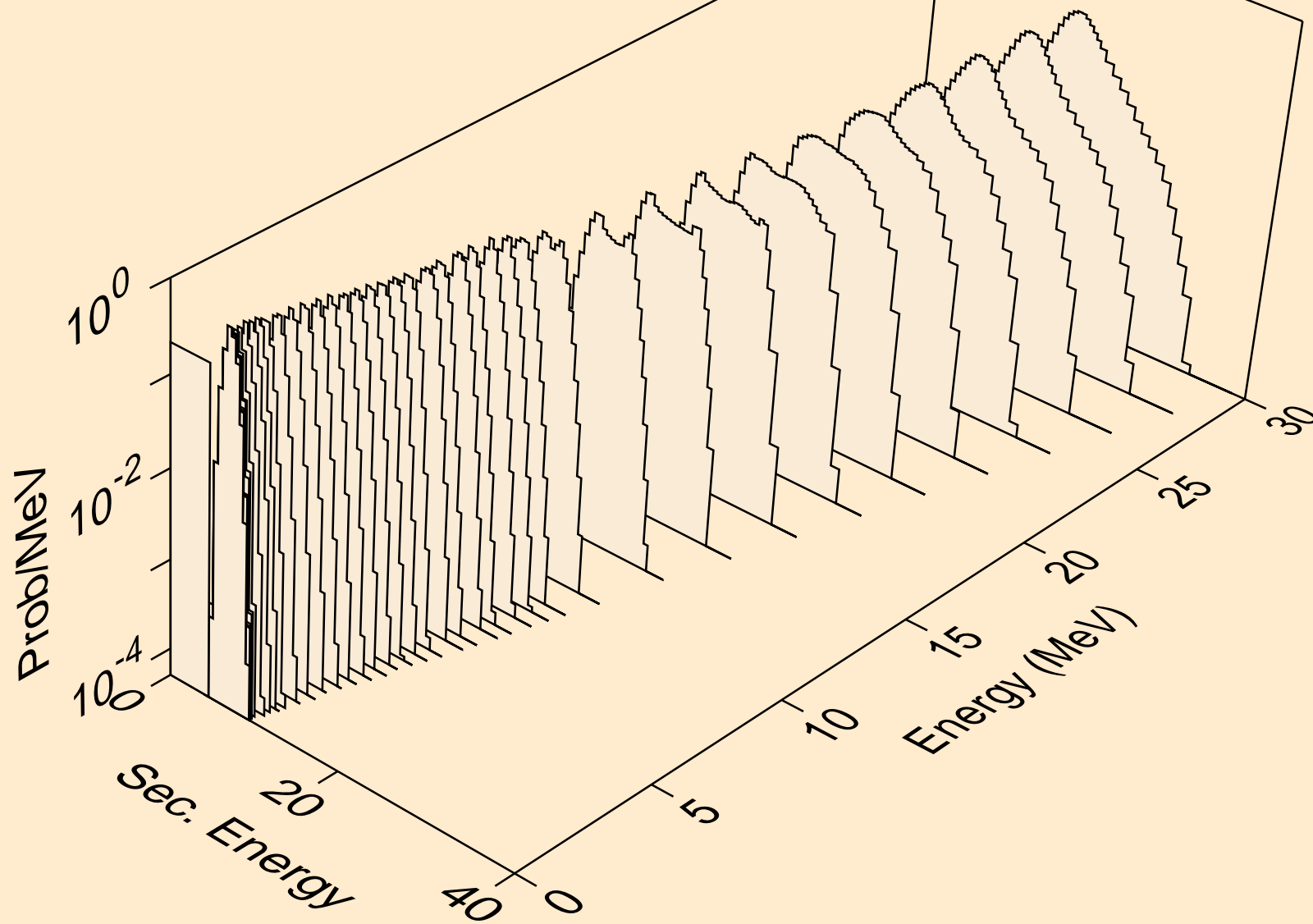
YB163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,npa)



YB163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,a)

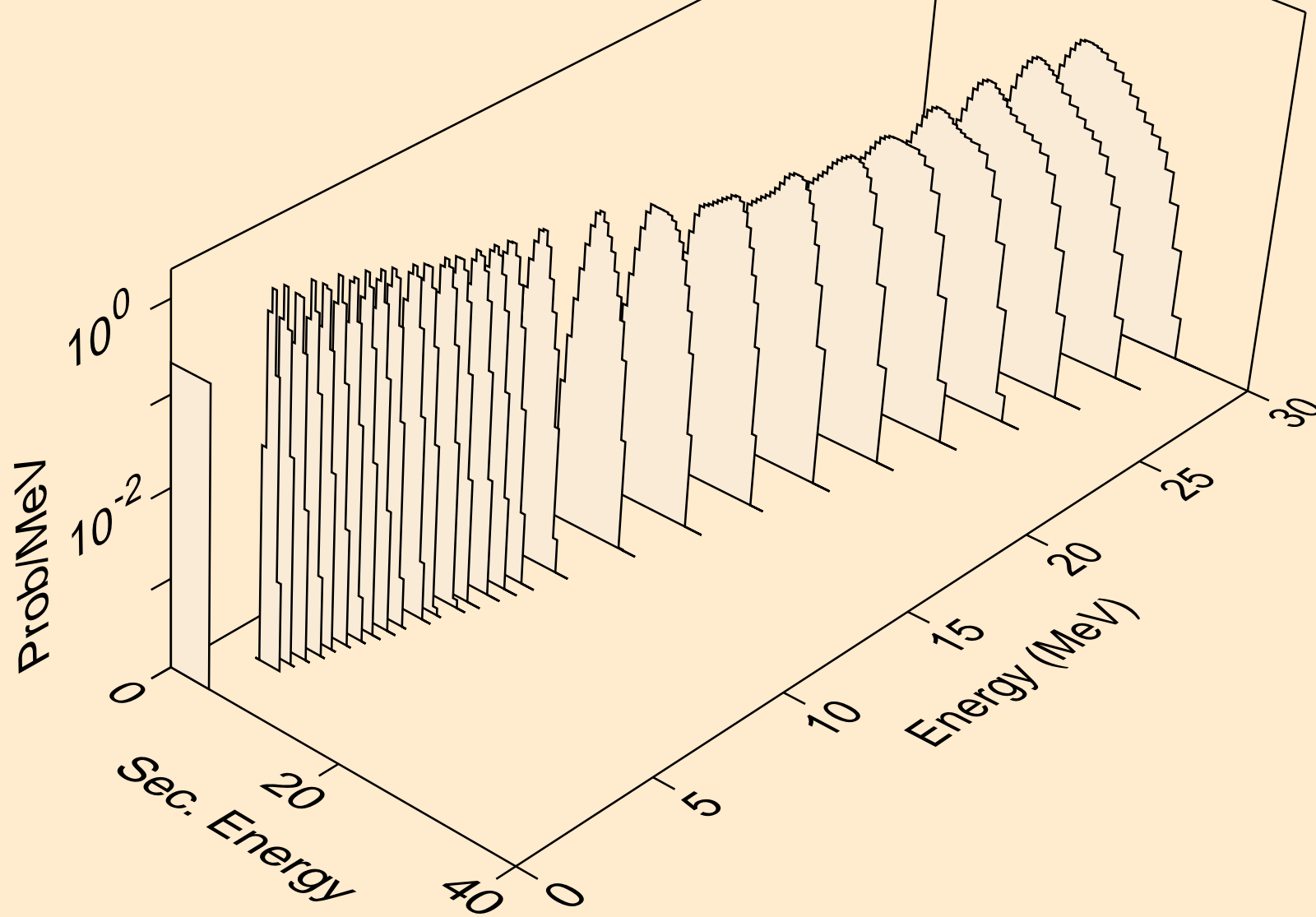


YB163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,2a)





YB163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,pa)



YB163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,da)

