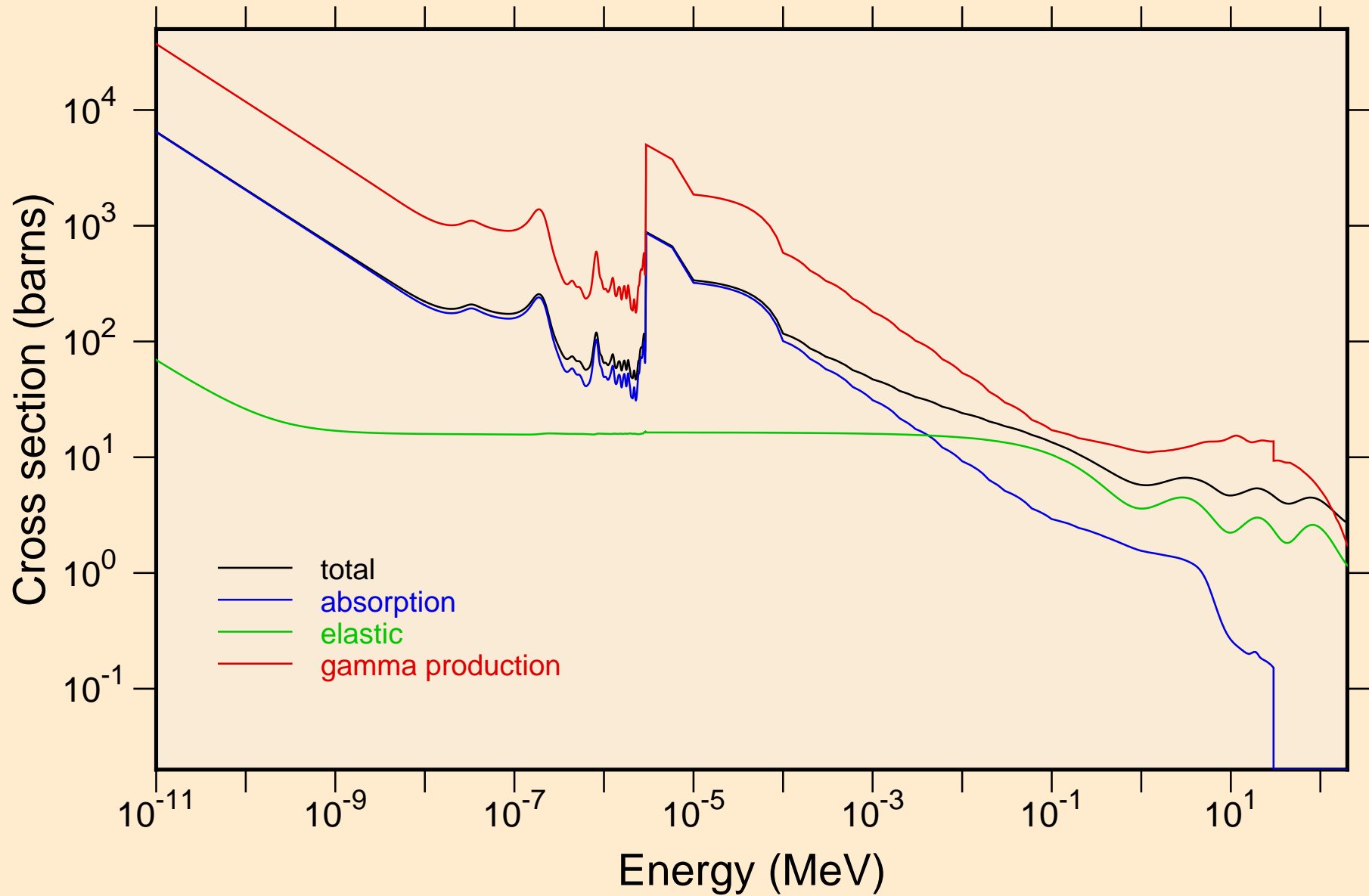
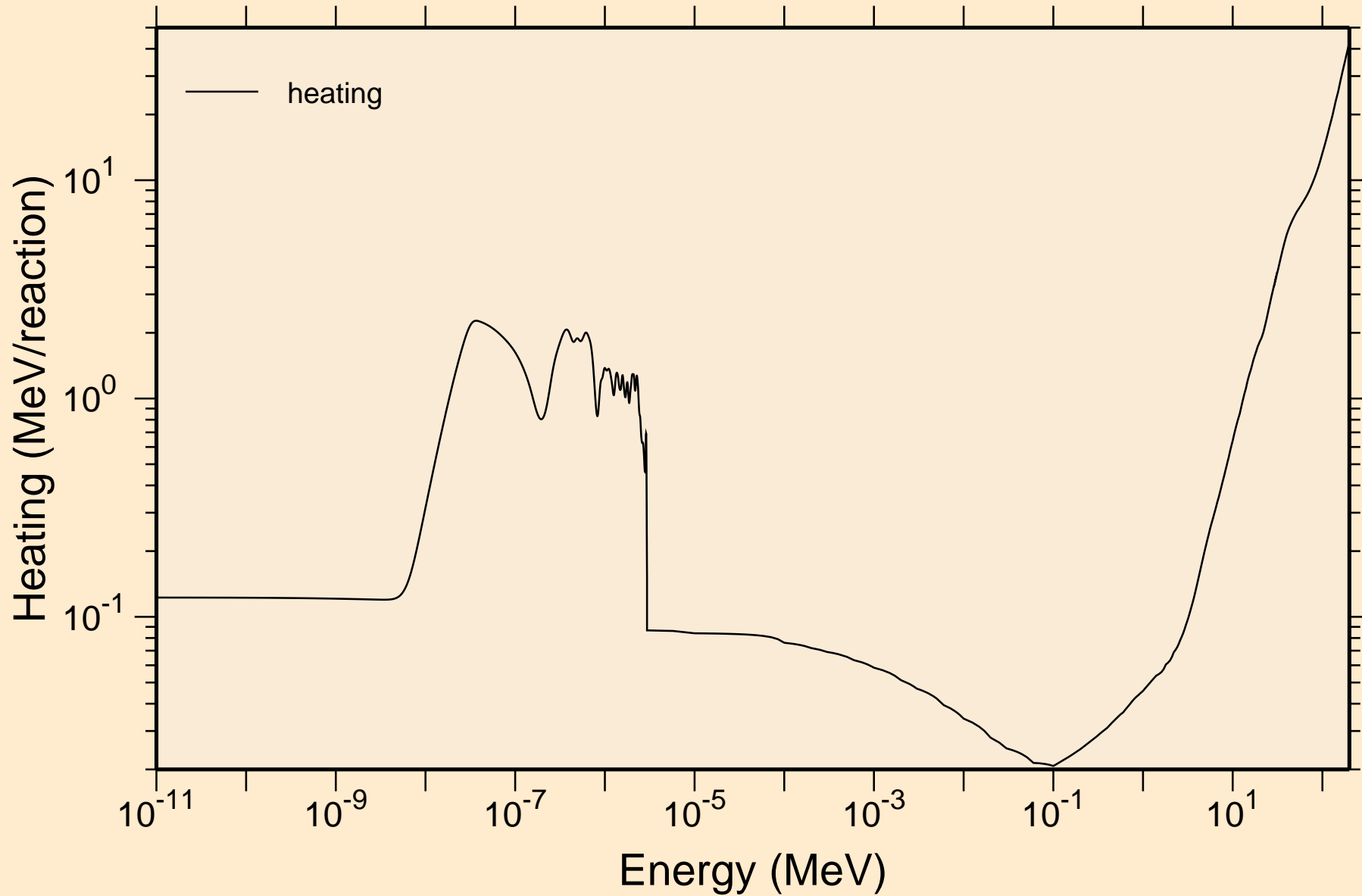


# IR177 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K

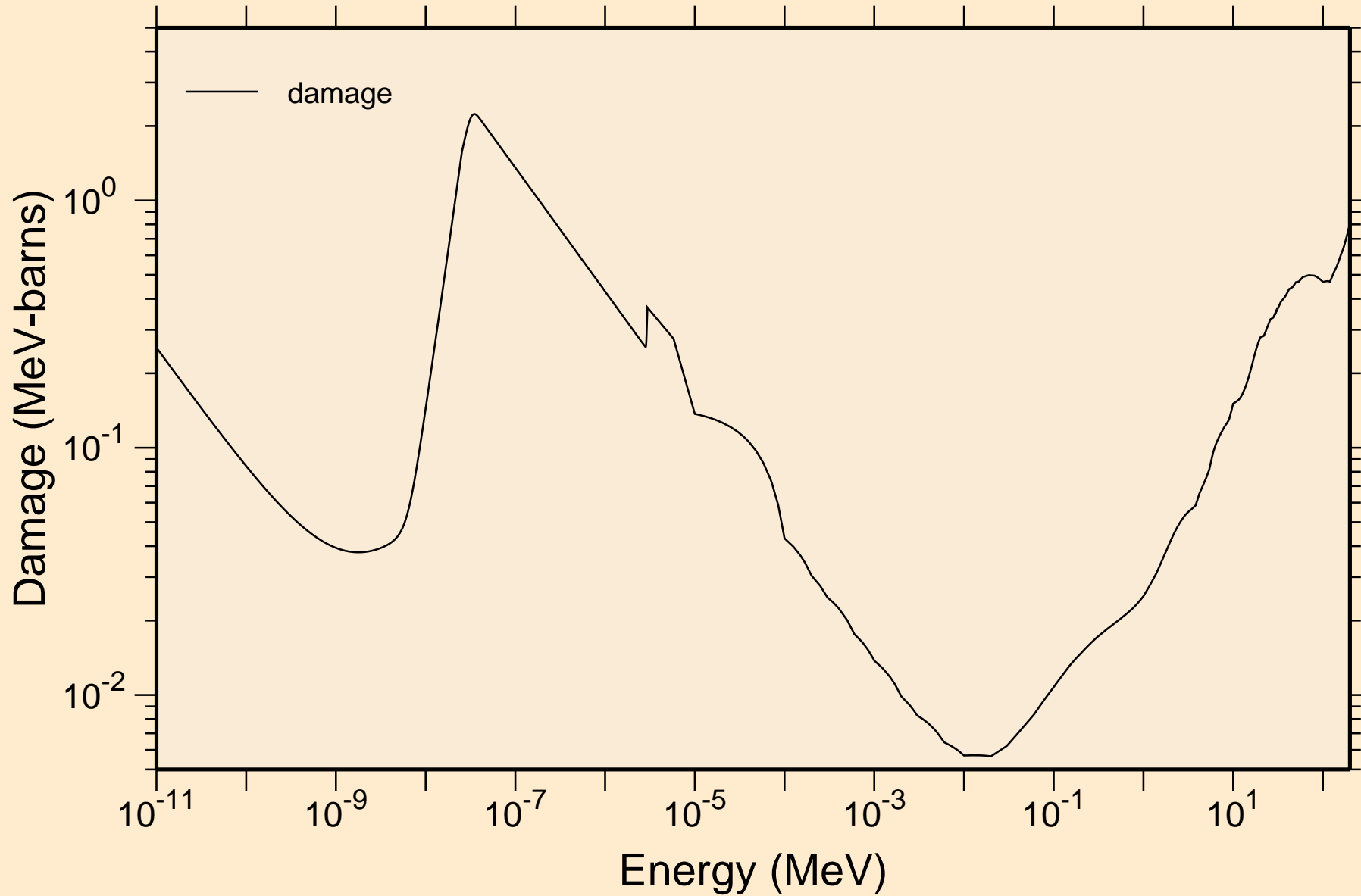
## Principal cross sections



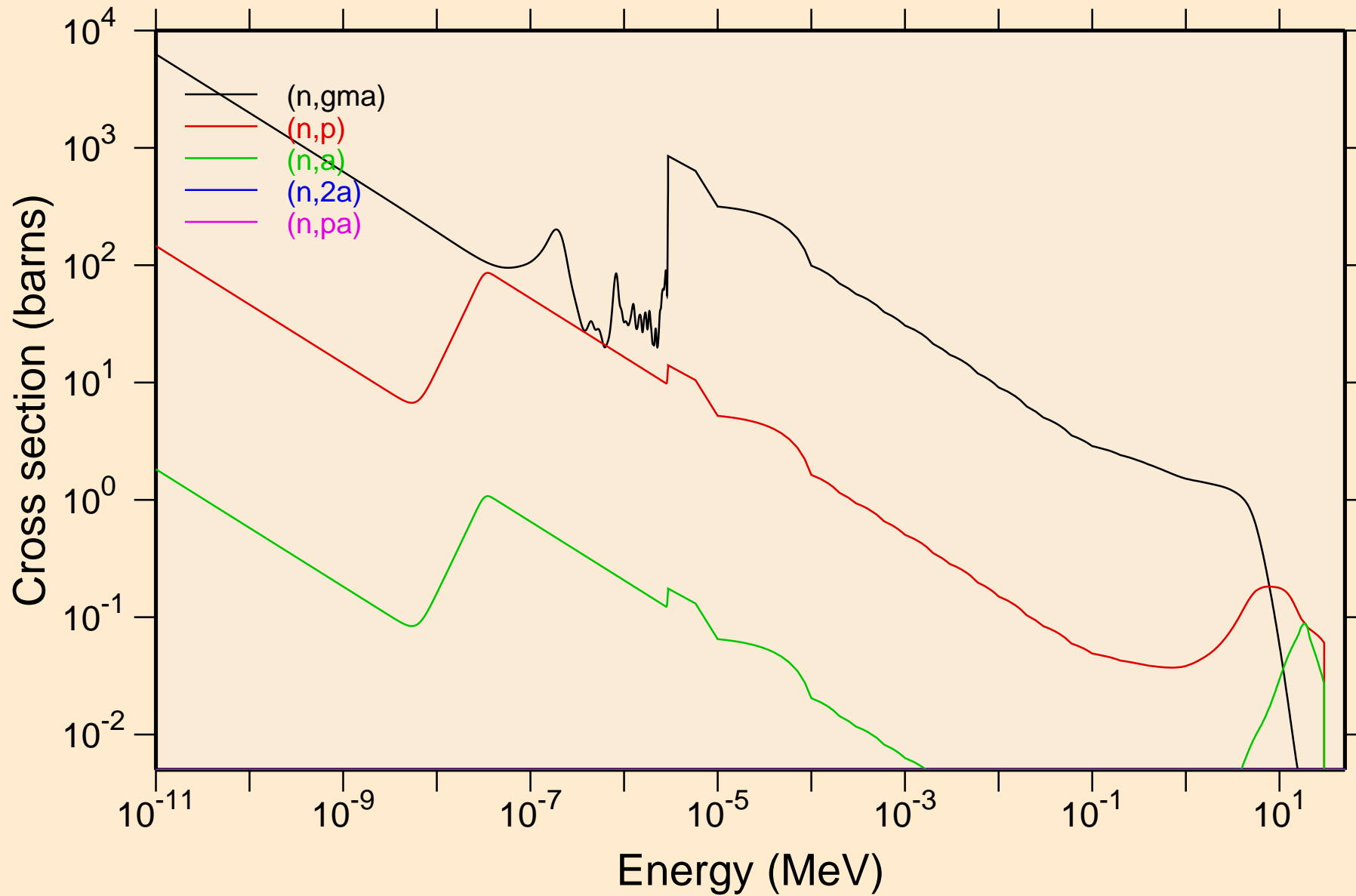
IR177 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Heating



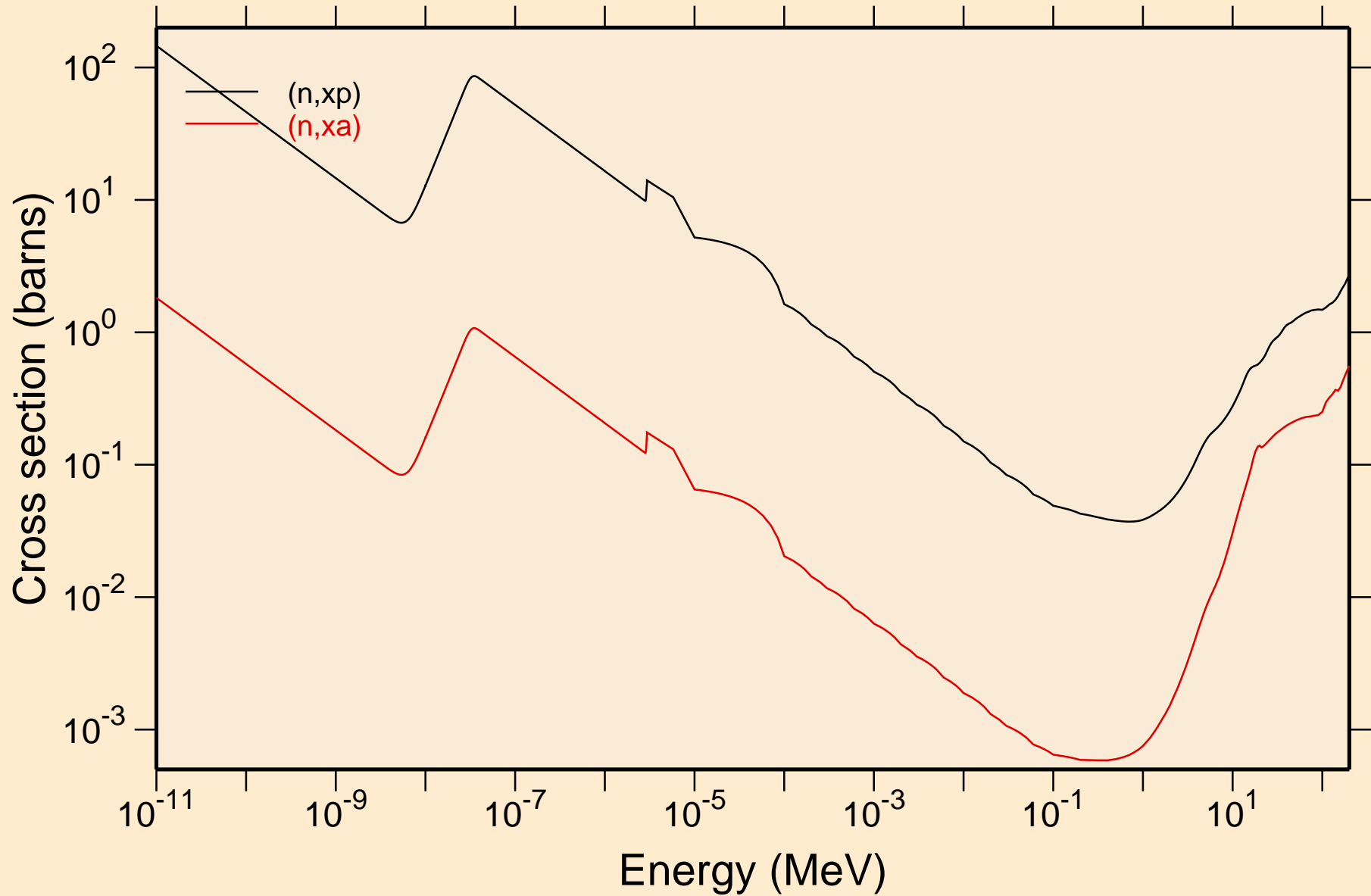
IR177 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Damage



IR177 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Non-threshold reactions

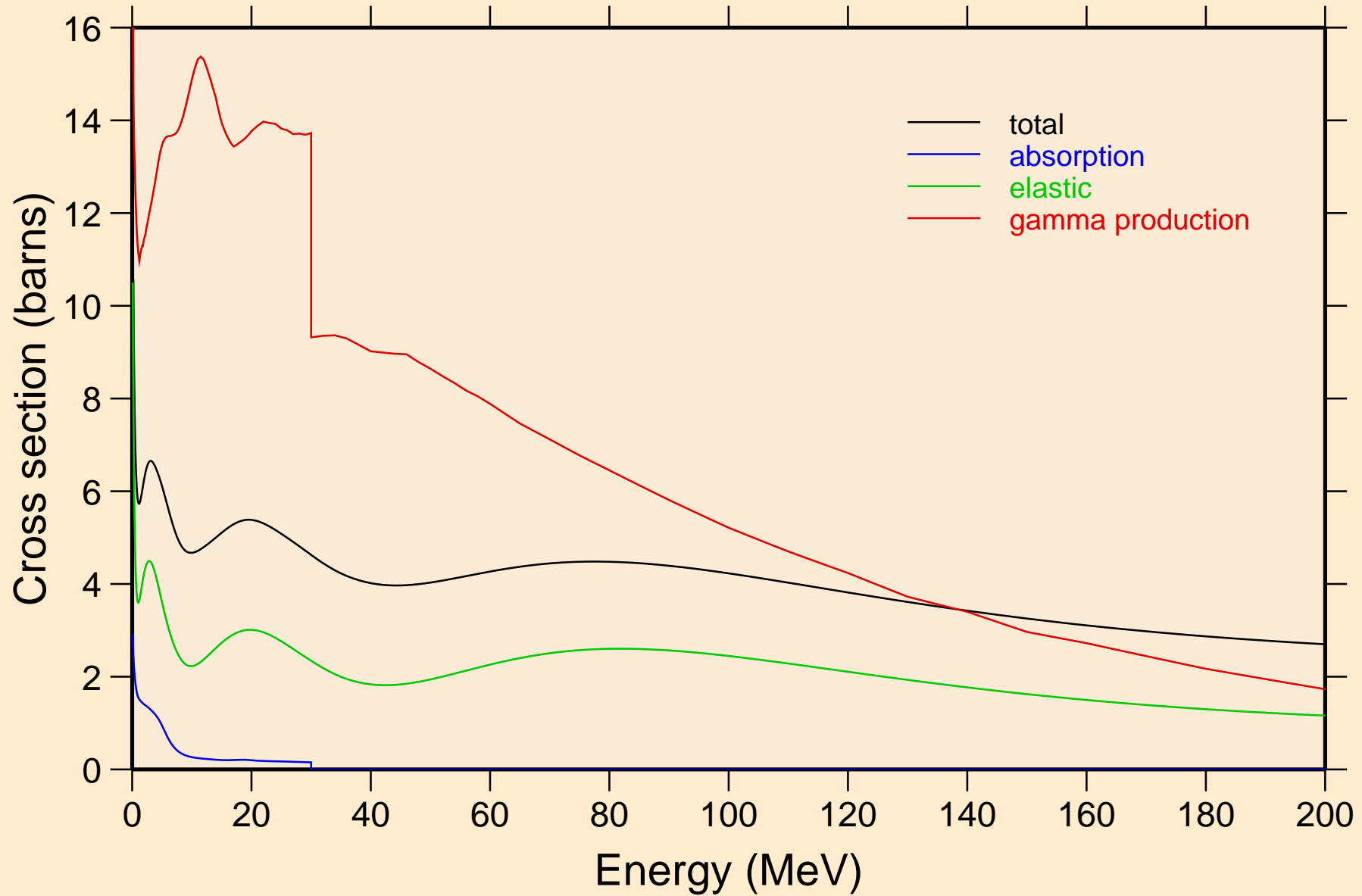


IR177 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Non-threshold reactions



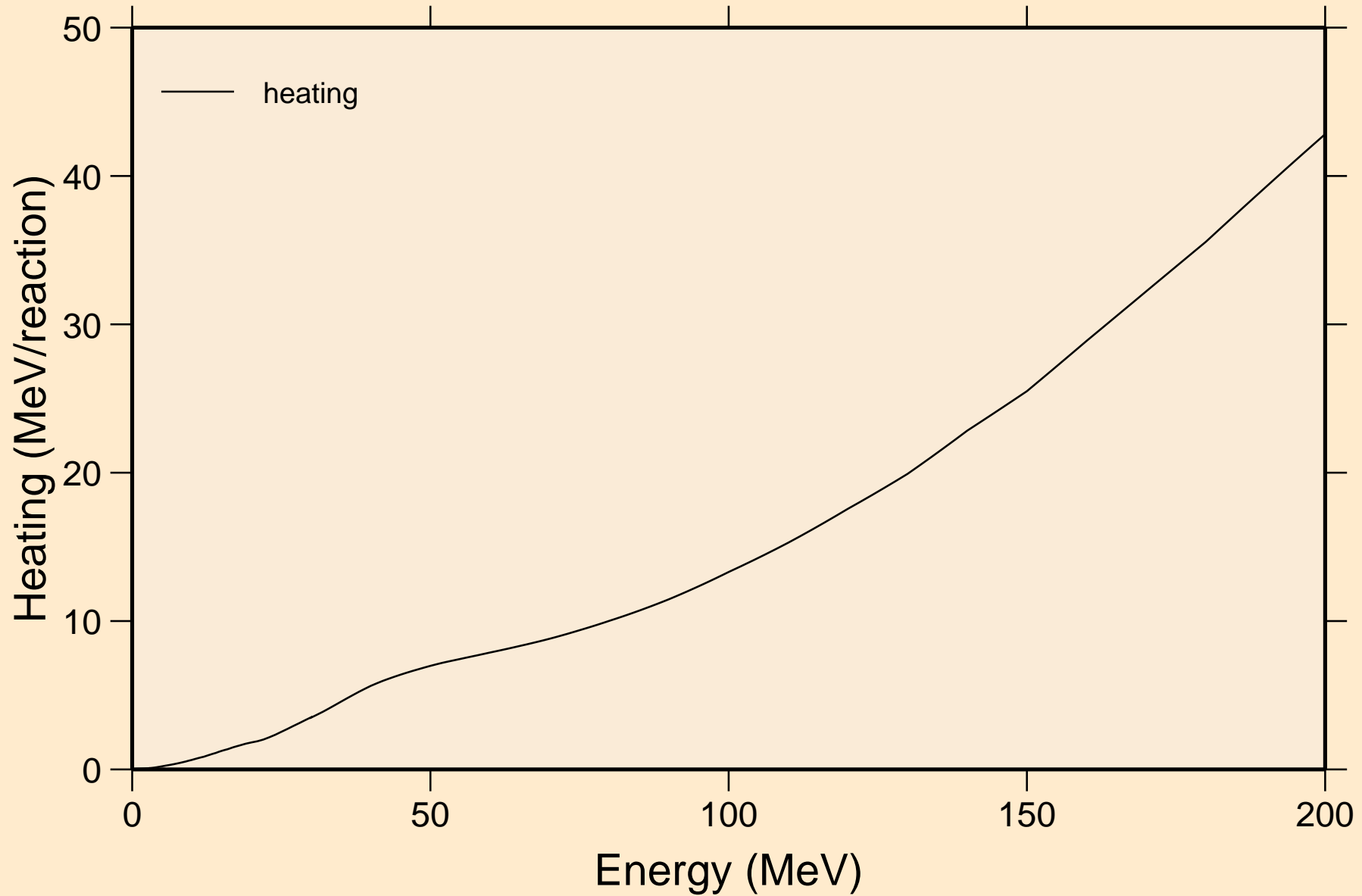
# IR177 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K

## Principal cross sections

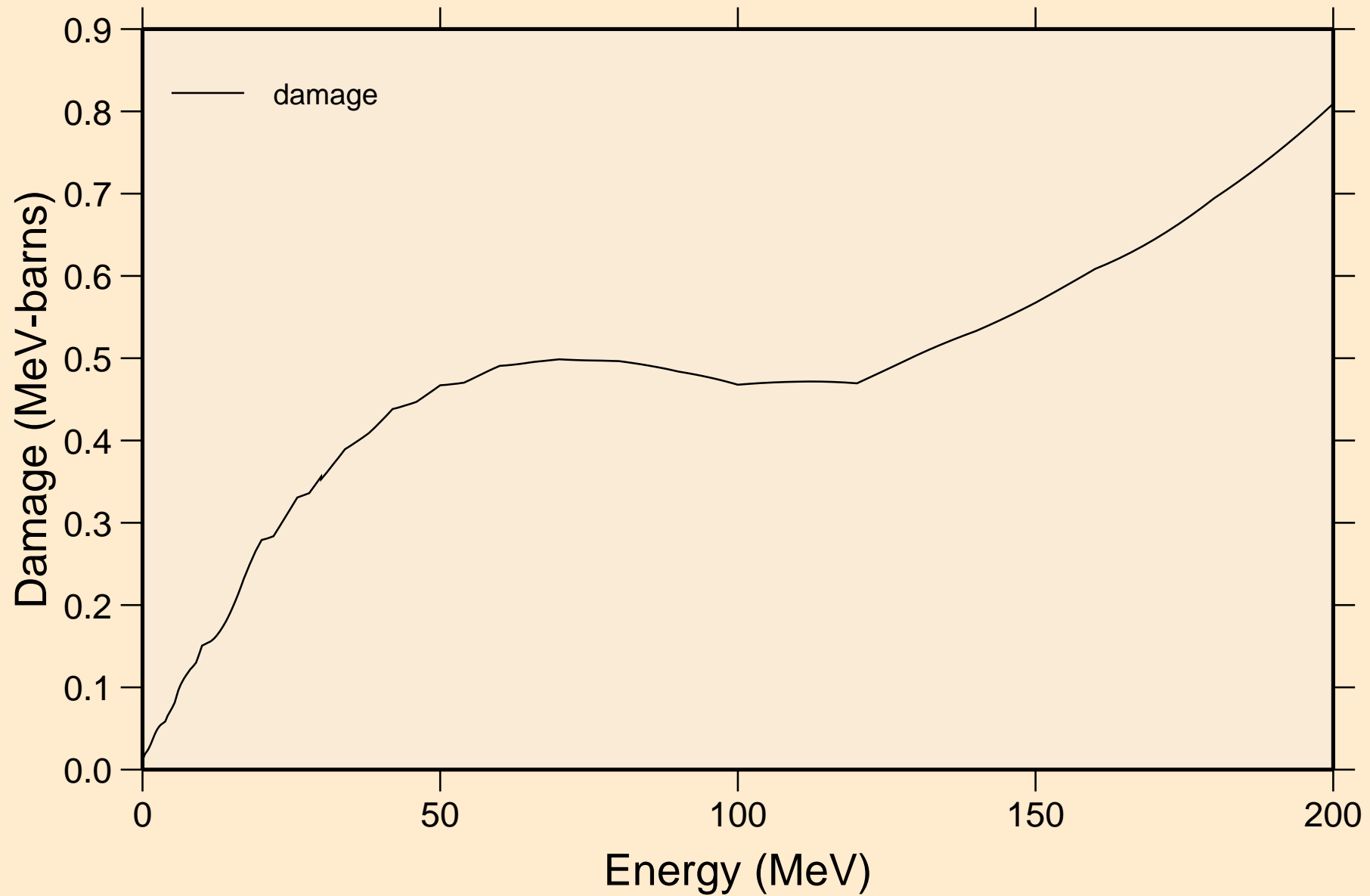


IR177 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K

Heating

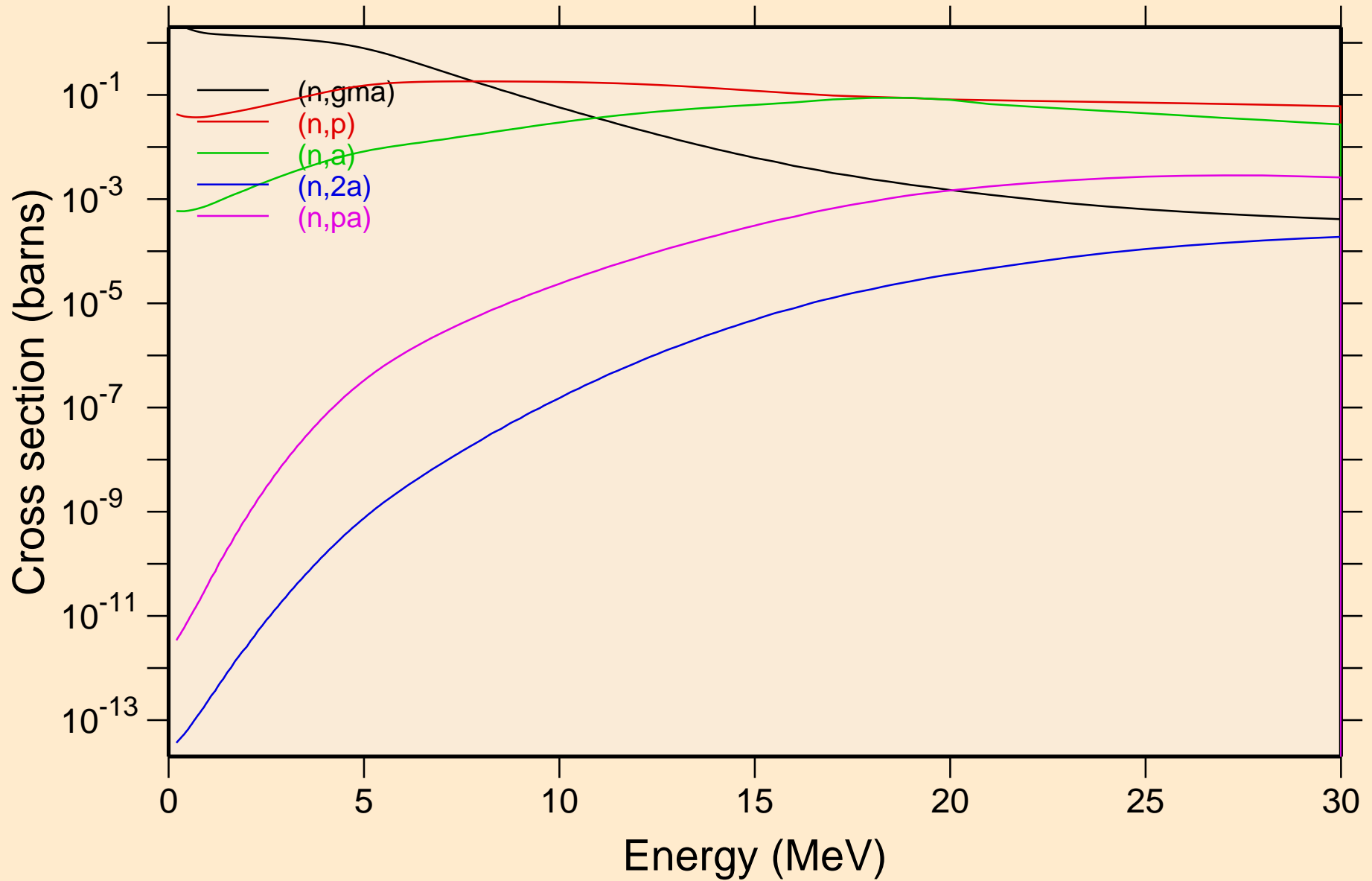


IR177 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Damage

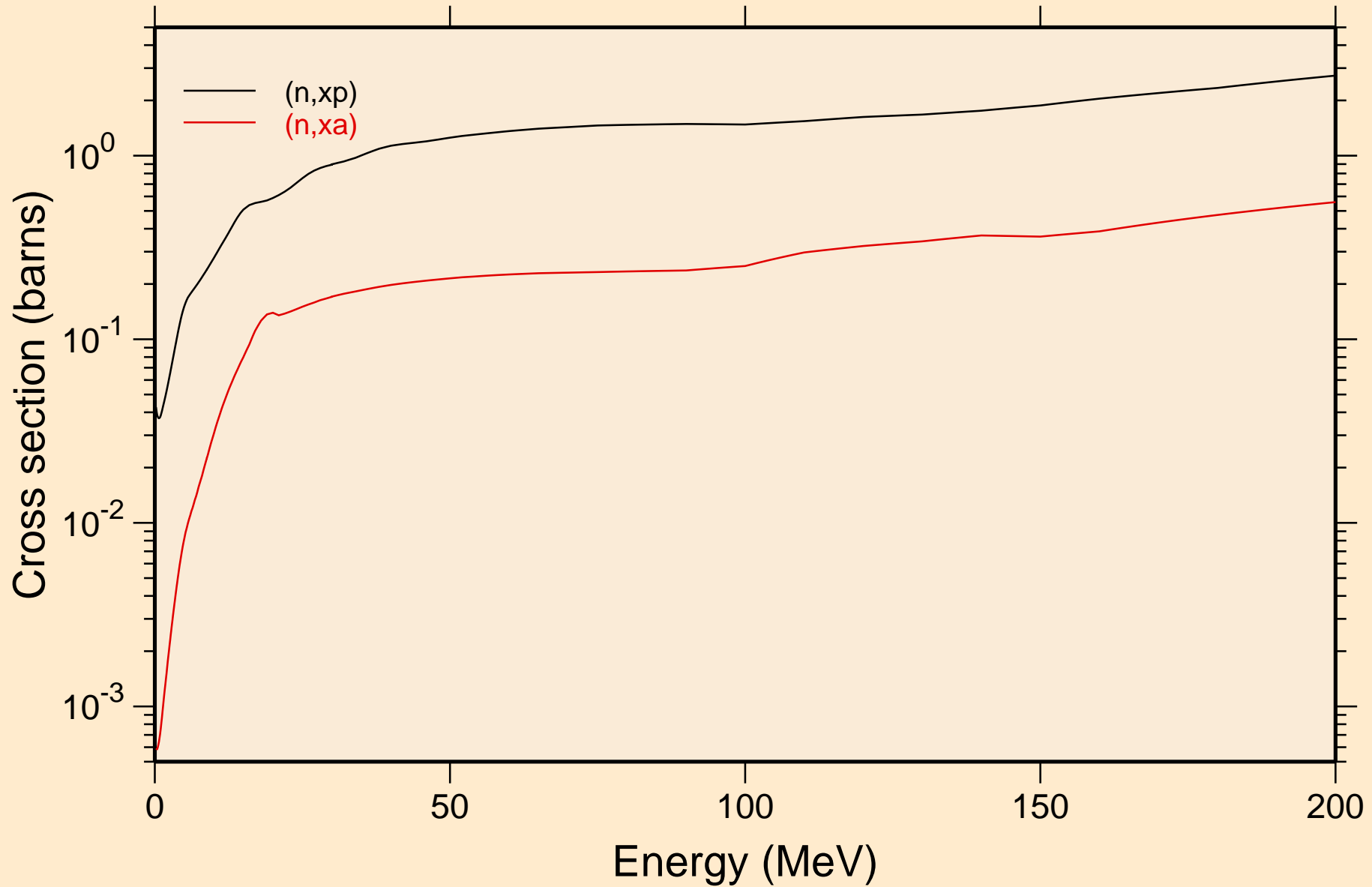




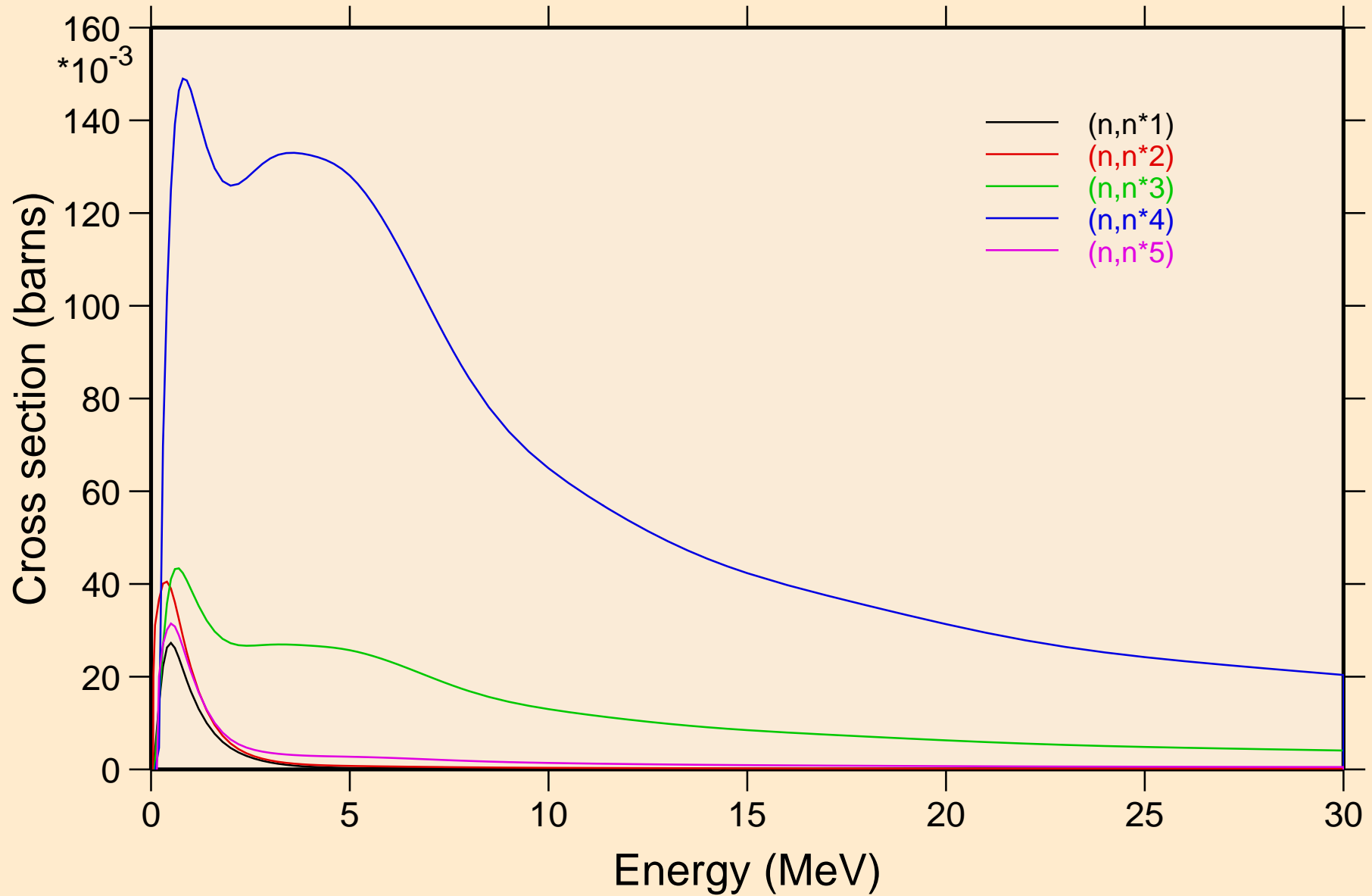
IR177 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Non-threshold reactions



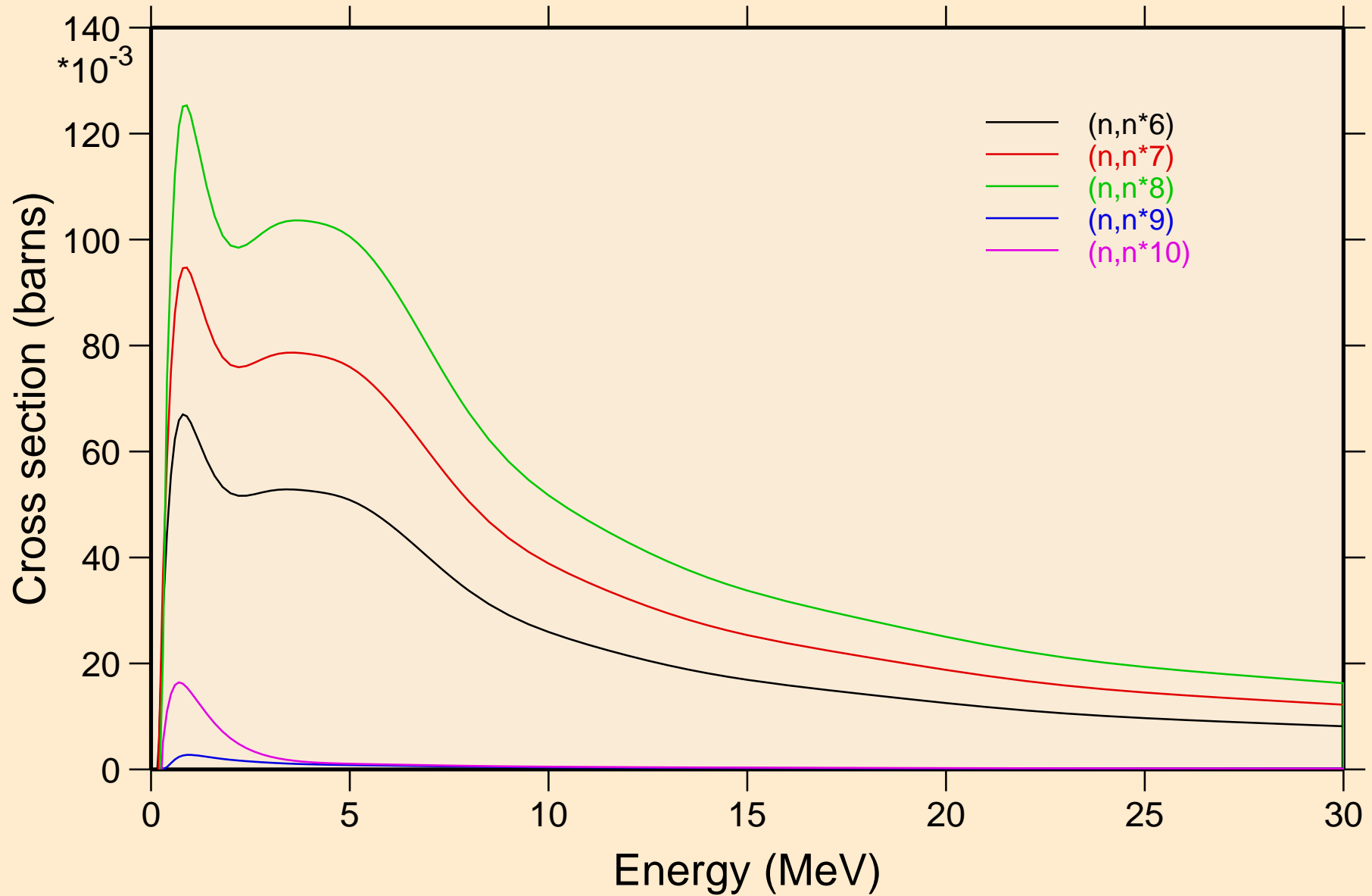
IR177 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Non-threshold reactions



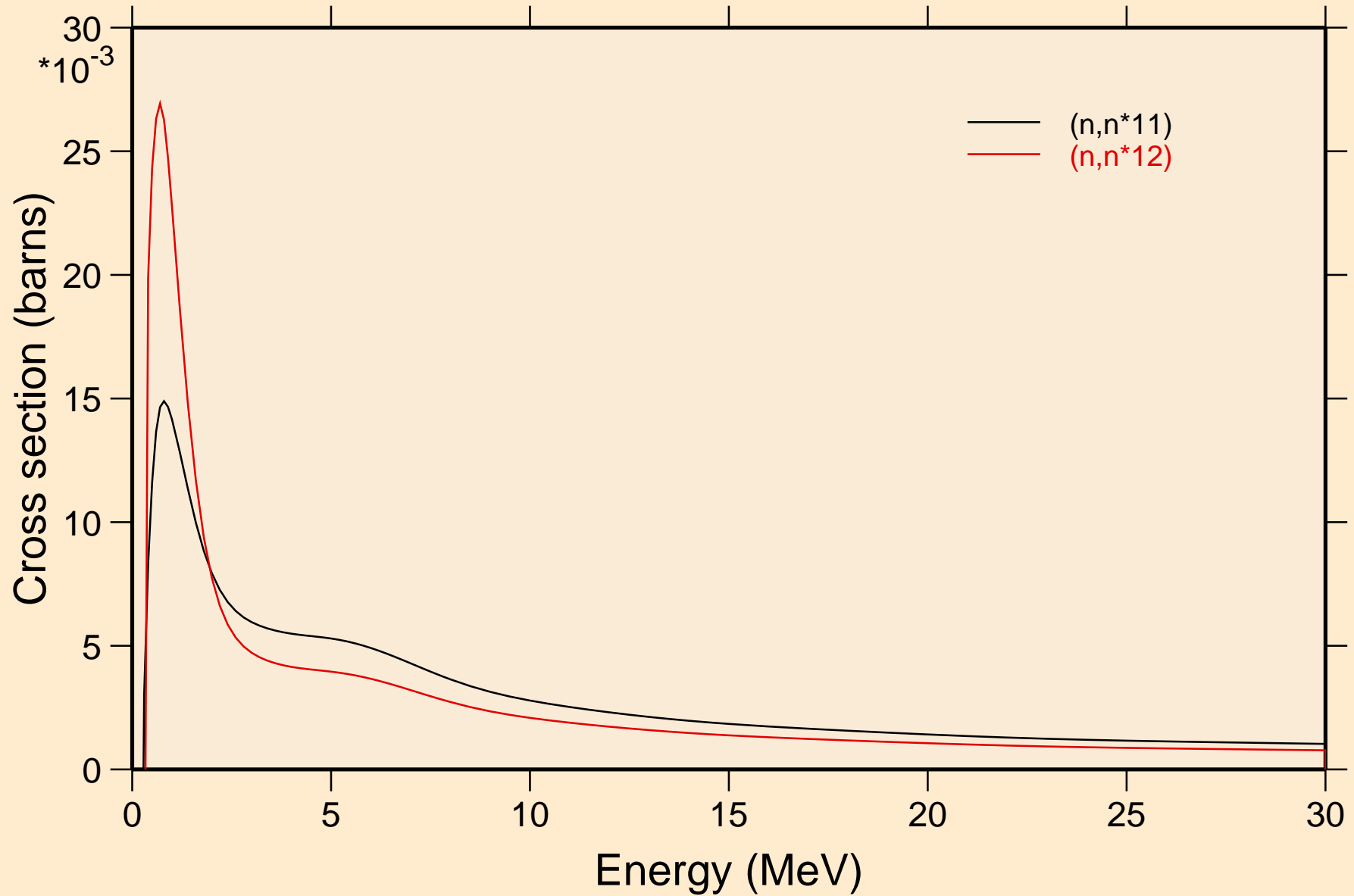
IR177 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Inelastic levels



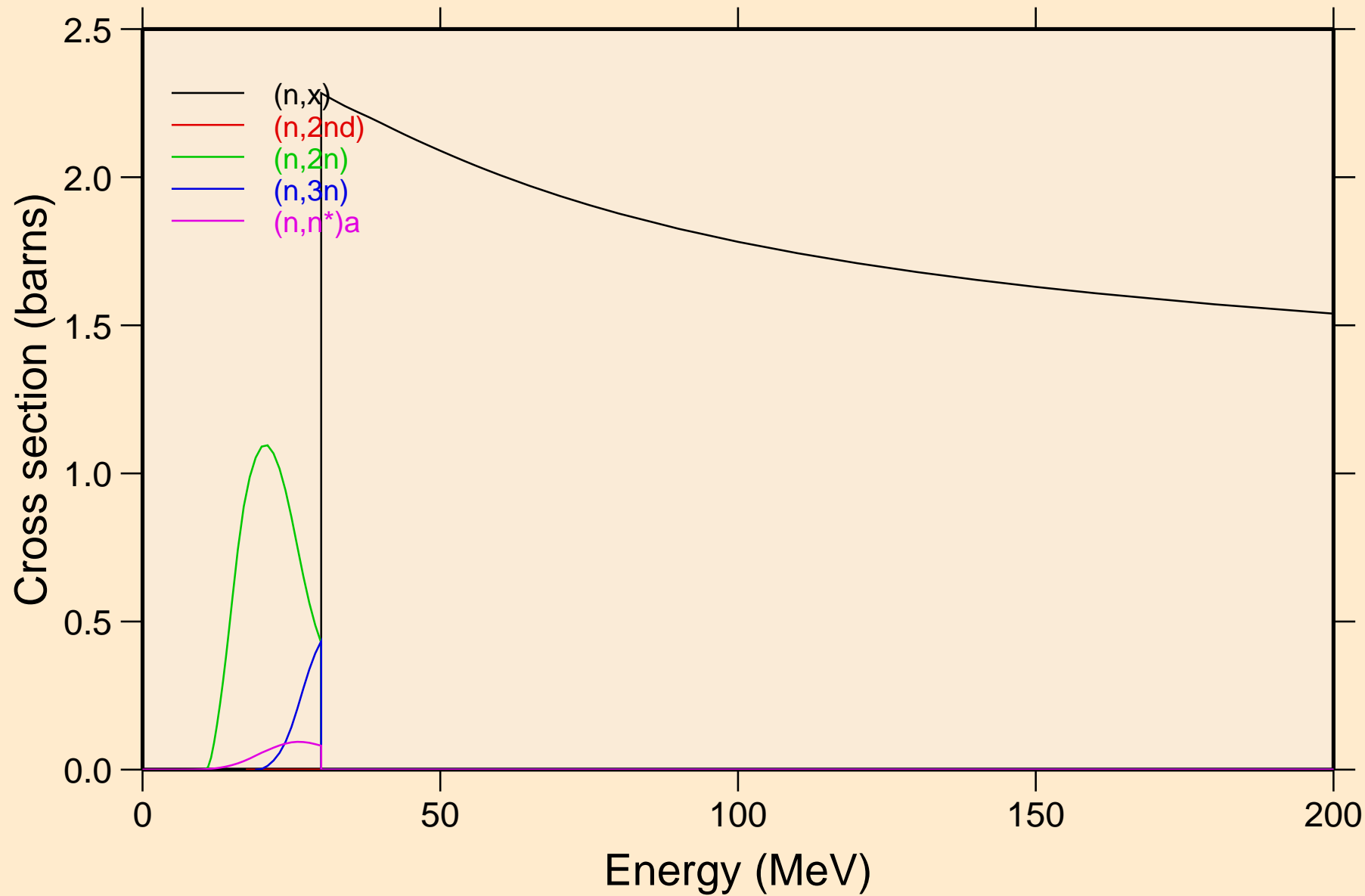
IR177 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Inelastic levels



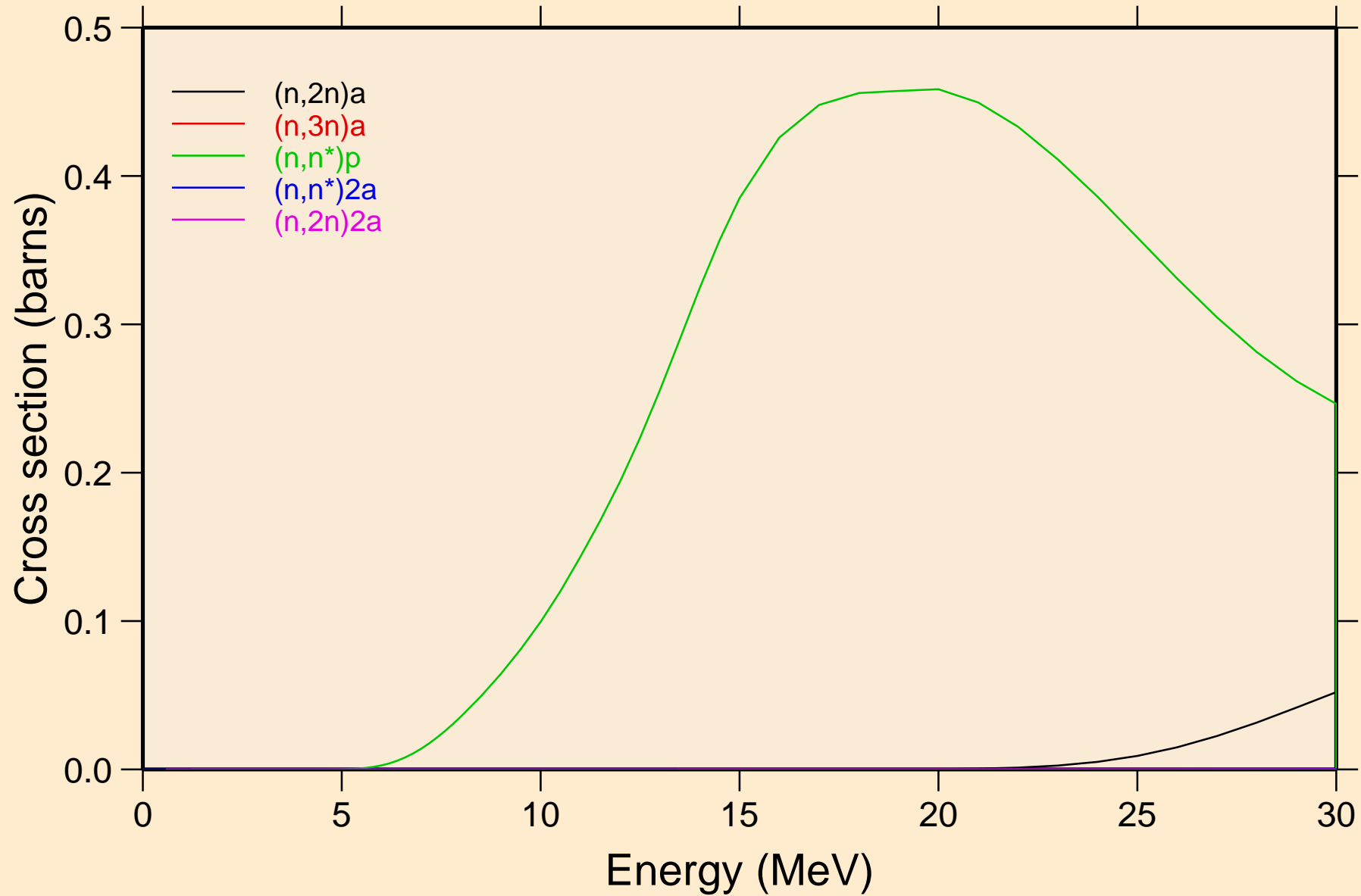
IR177 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Inelastic levels



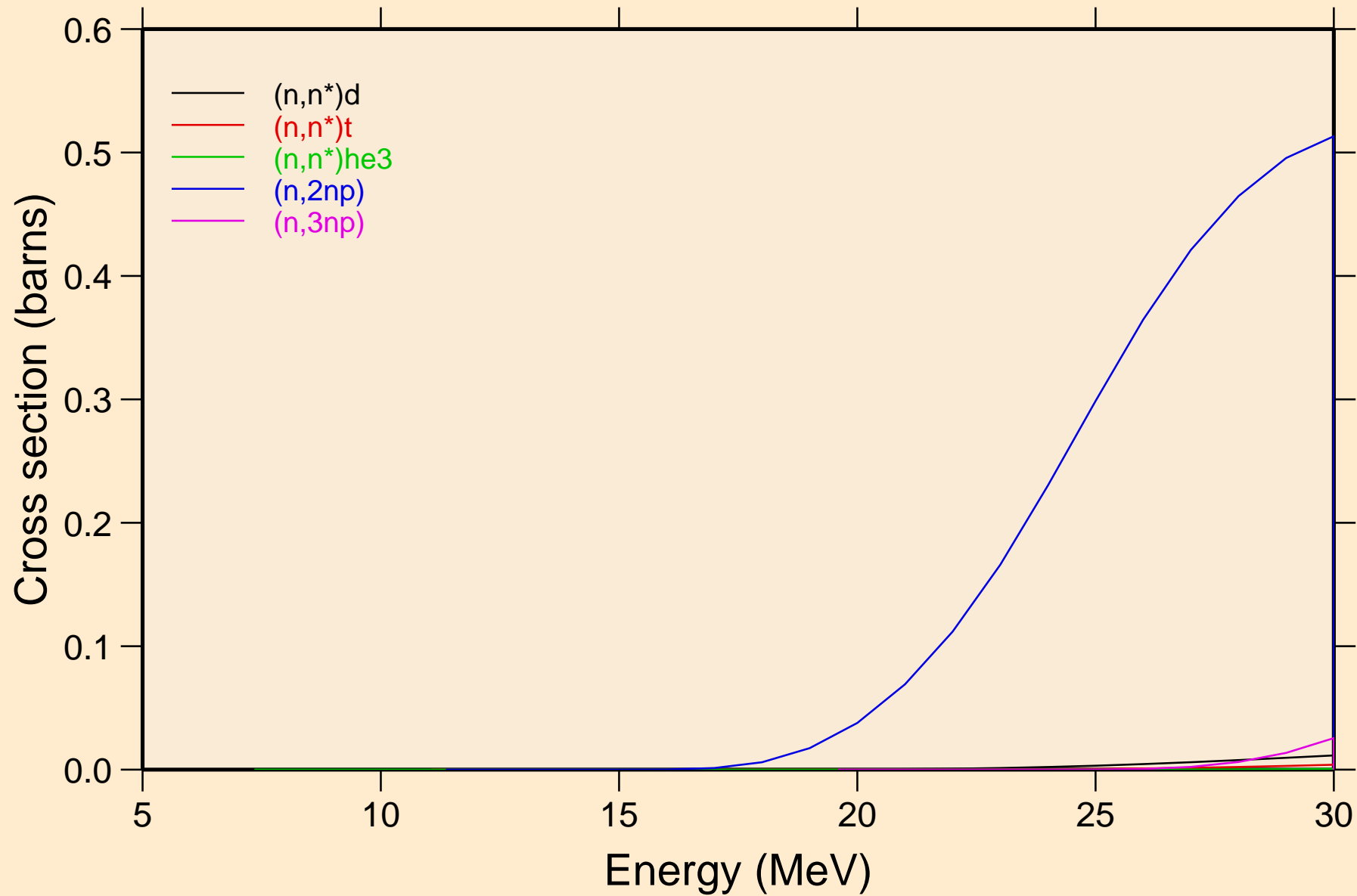
IR177 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Threshold reactions



IR177 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Threshold reactions

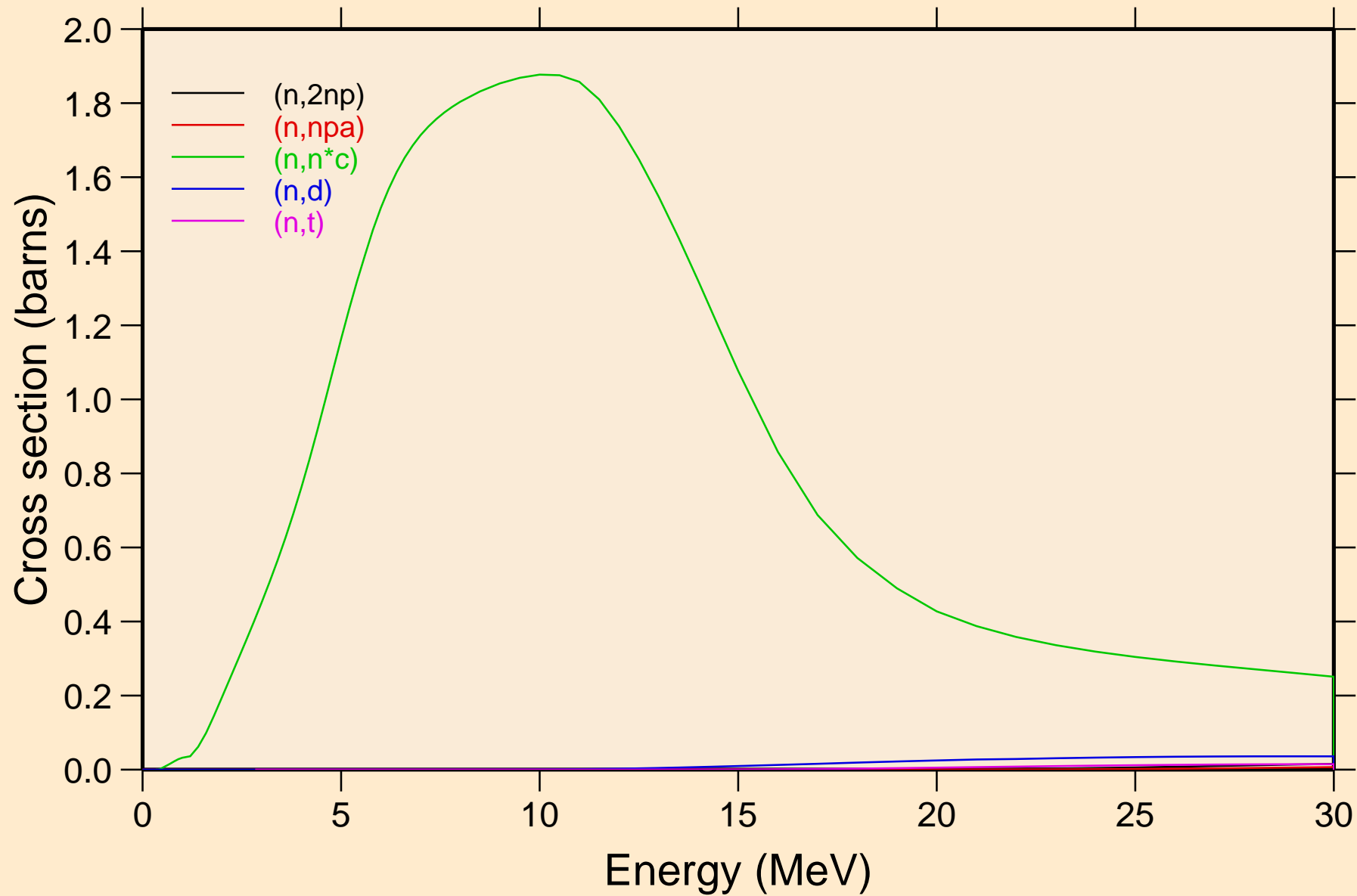


IR177 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Threshold reactions

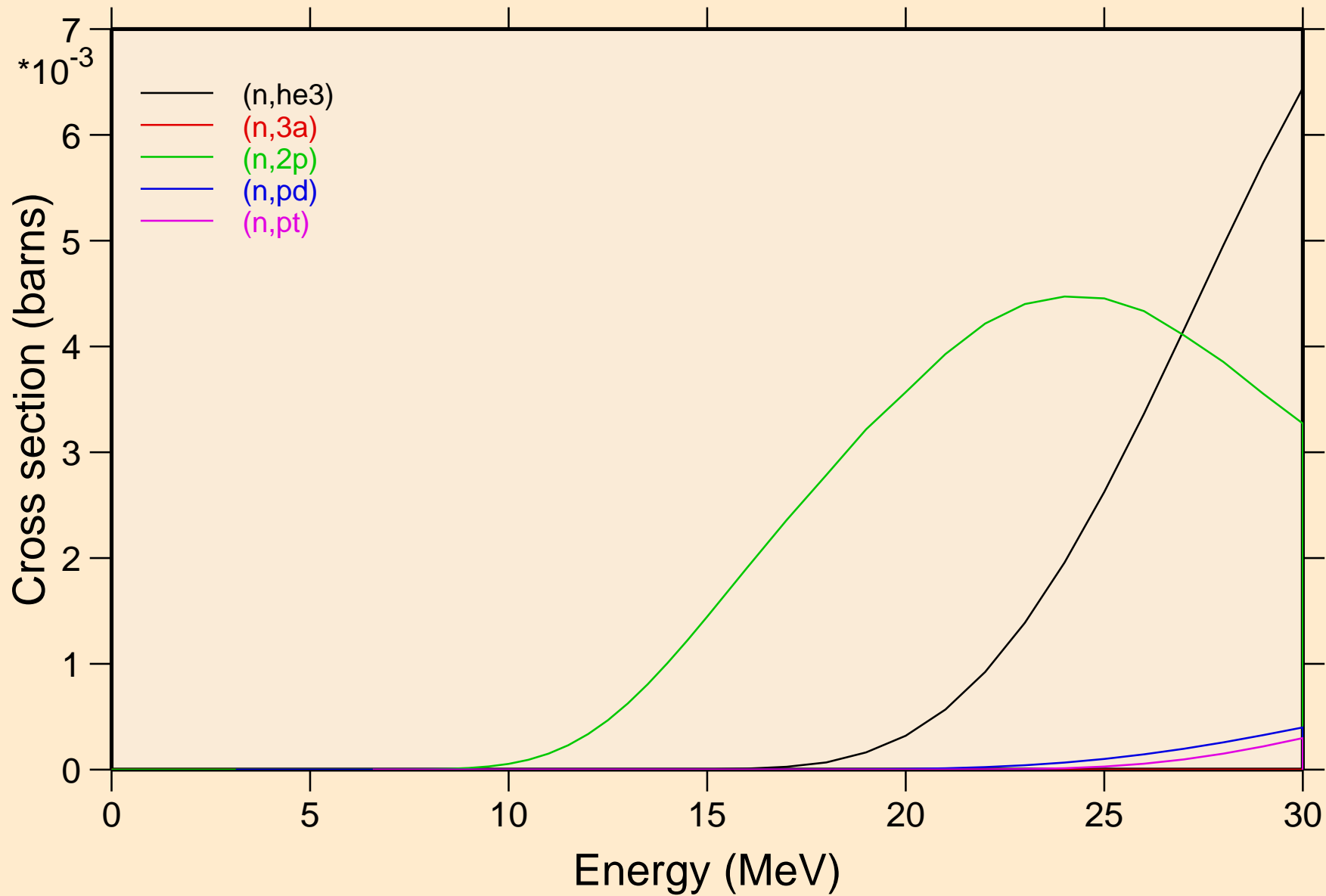




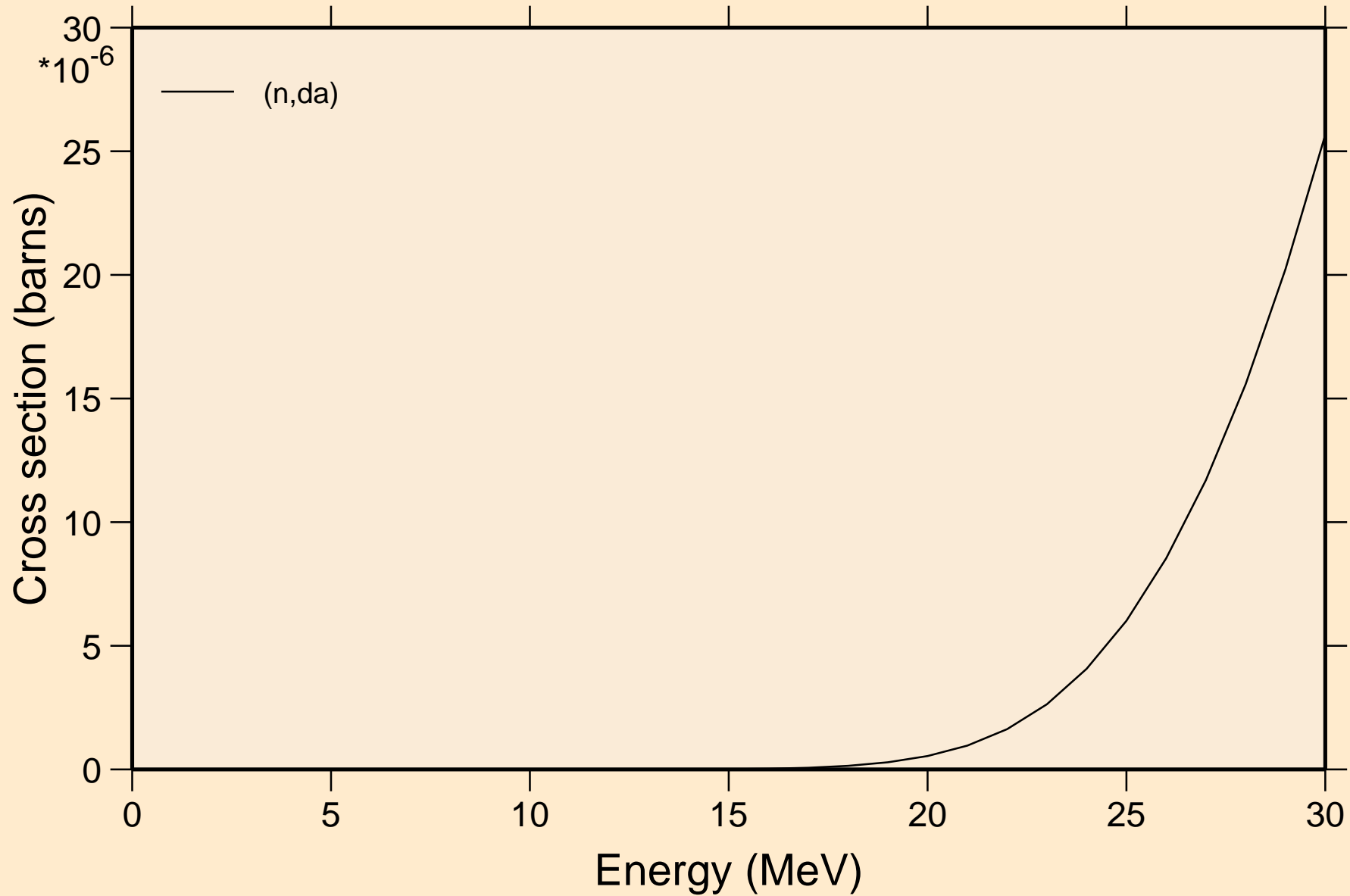
IR177 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Threshold reactions



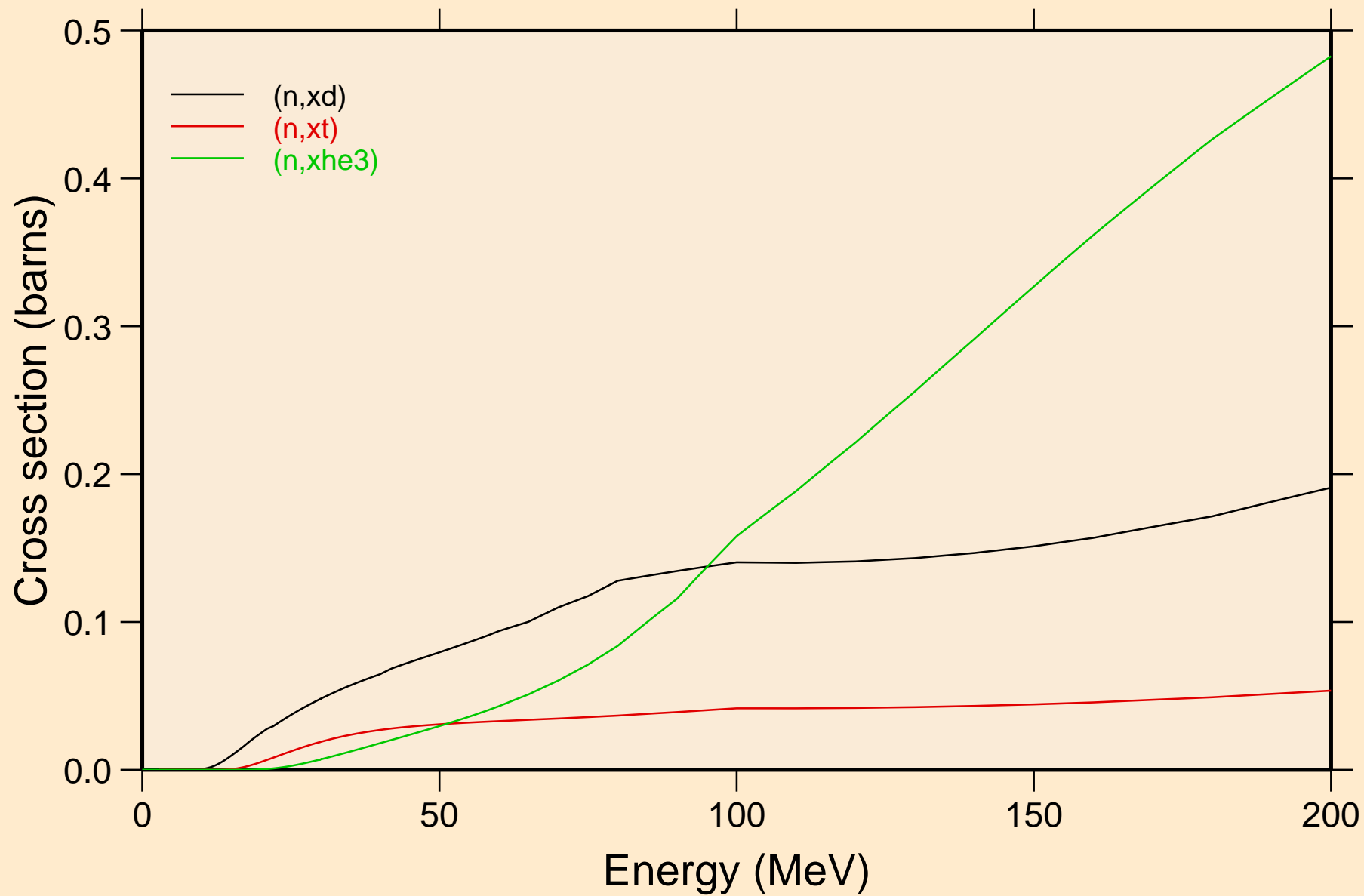
IR177 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Threshold reactions



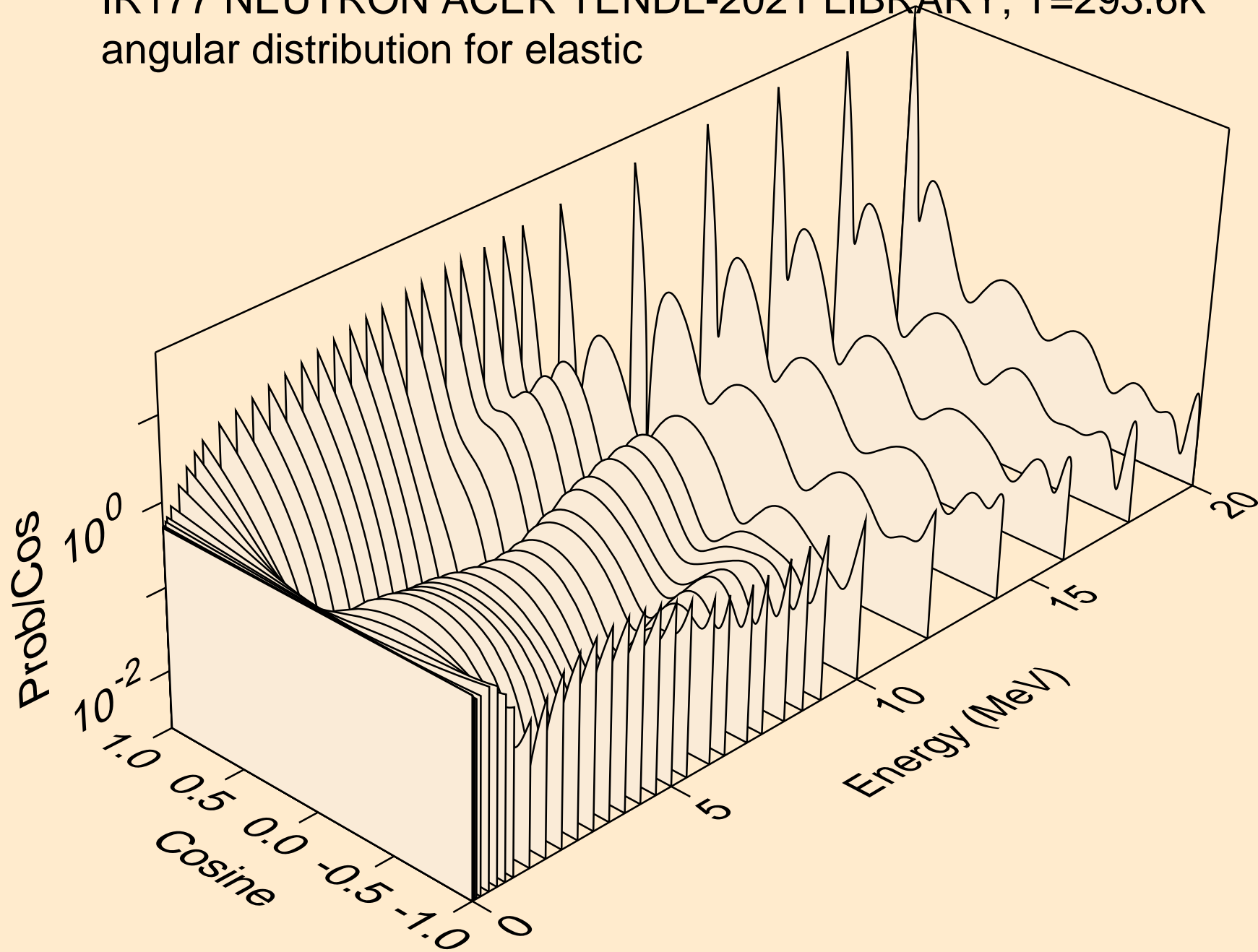
IR177 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Threshold reactions



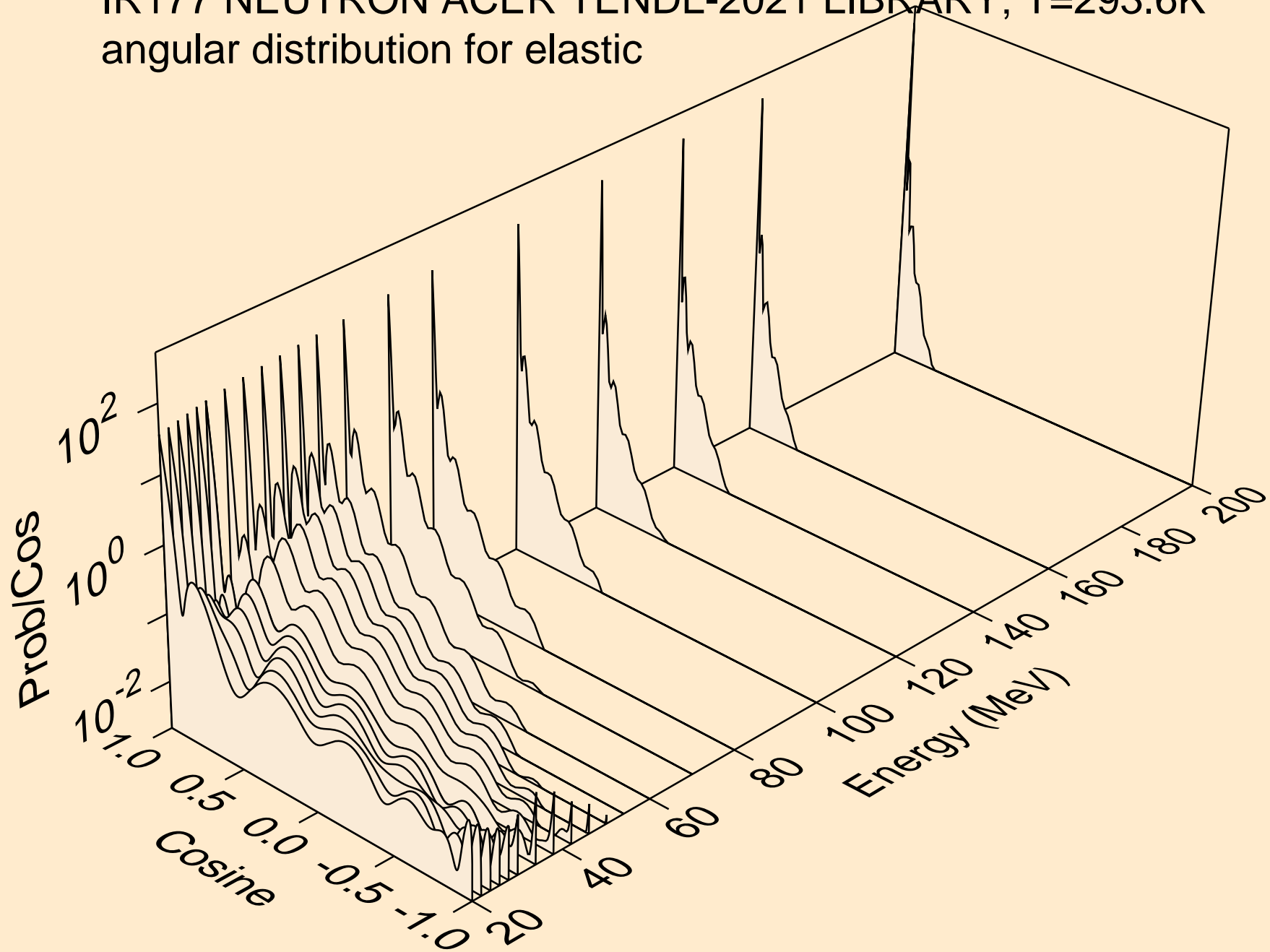
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Threshold reactions



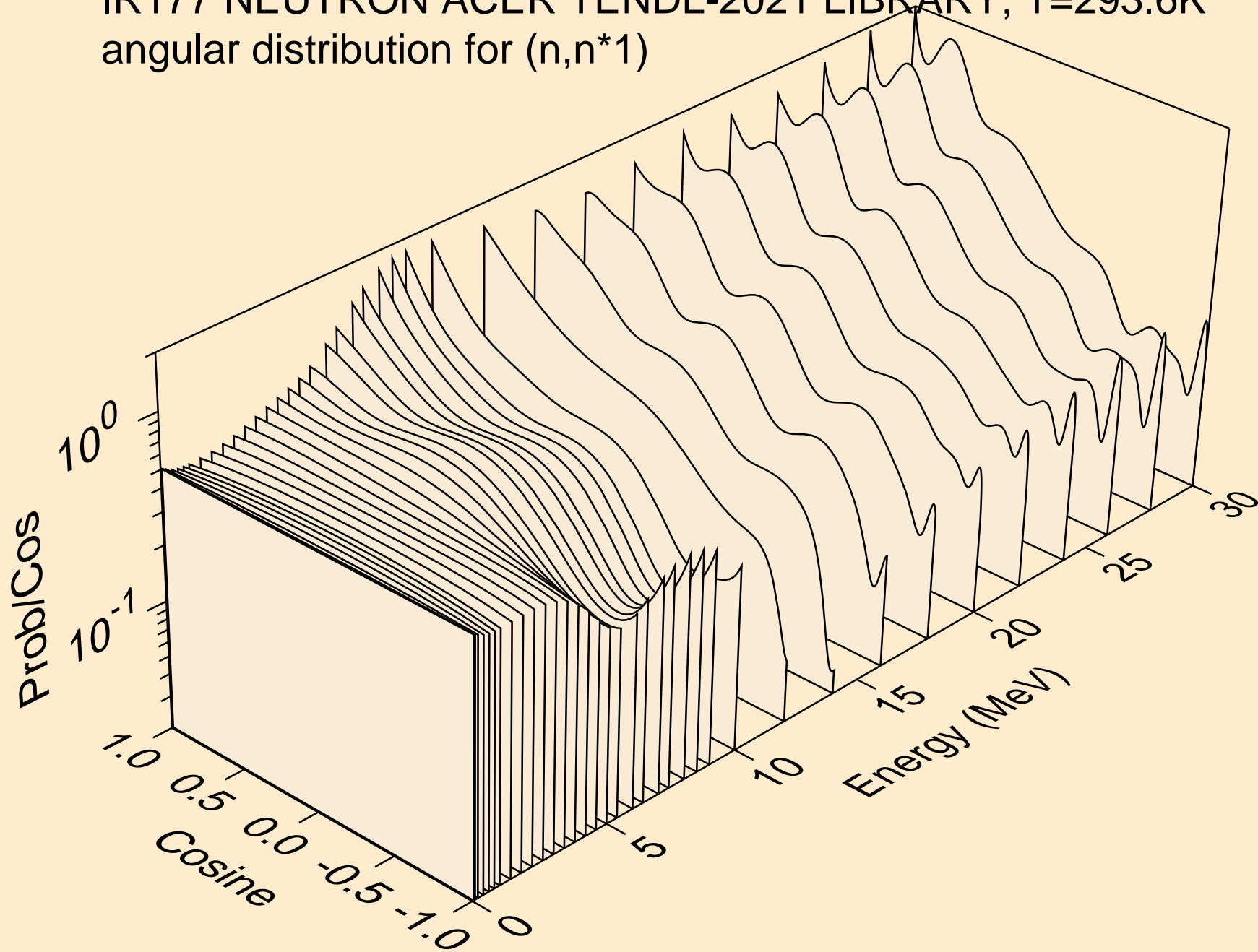
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angular distribution for elastic



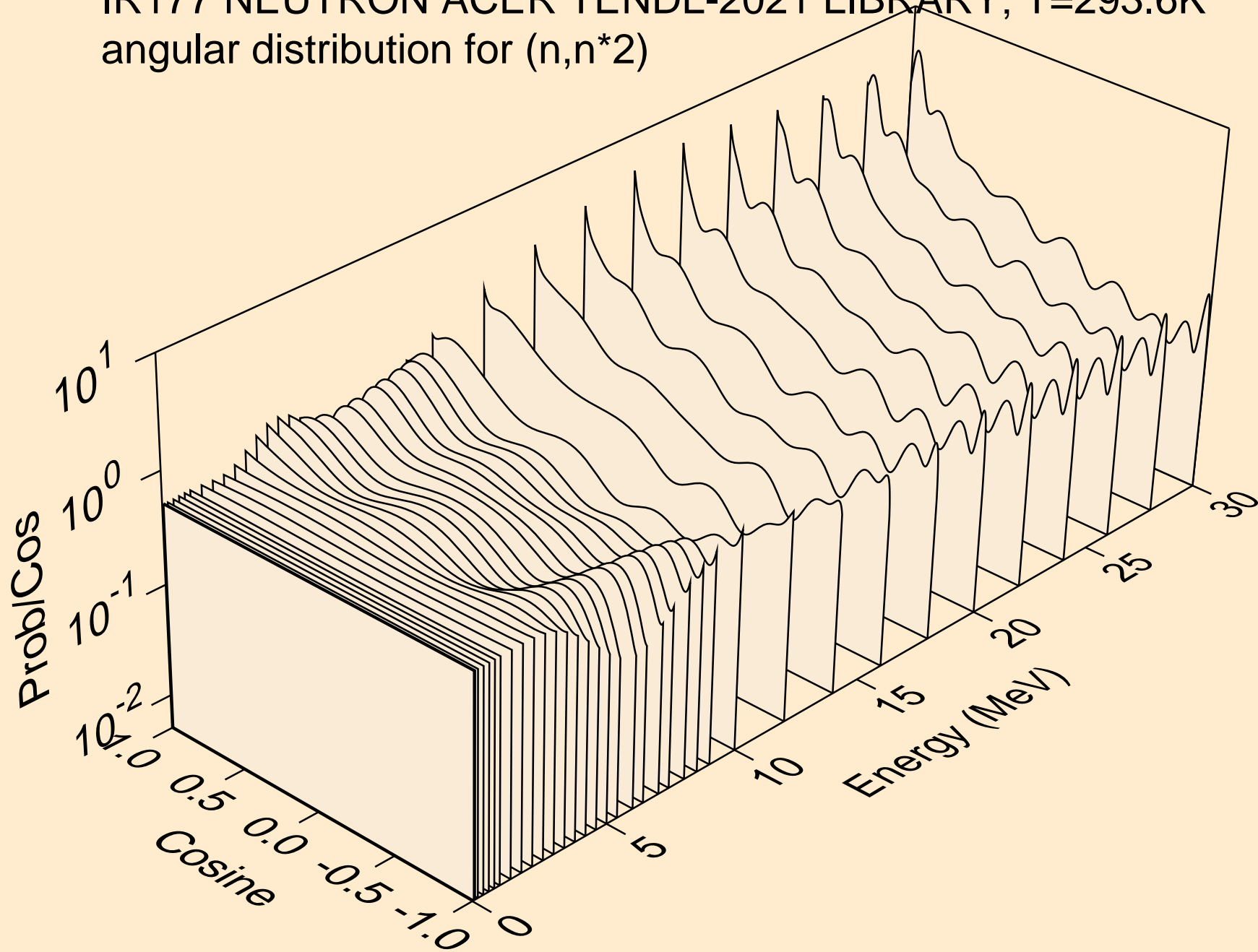
IR177 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for elastic



IR177 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for (n,n\*1)

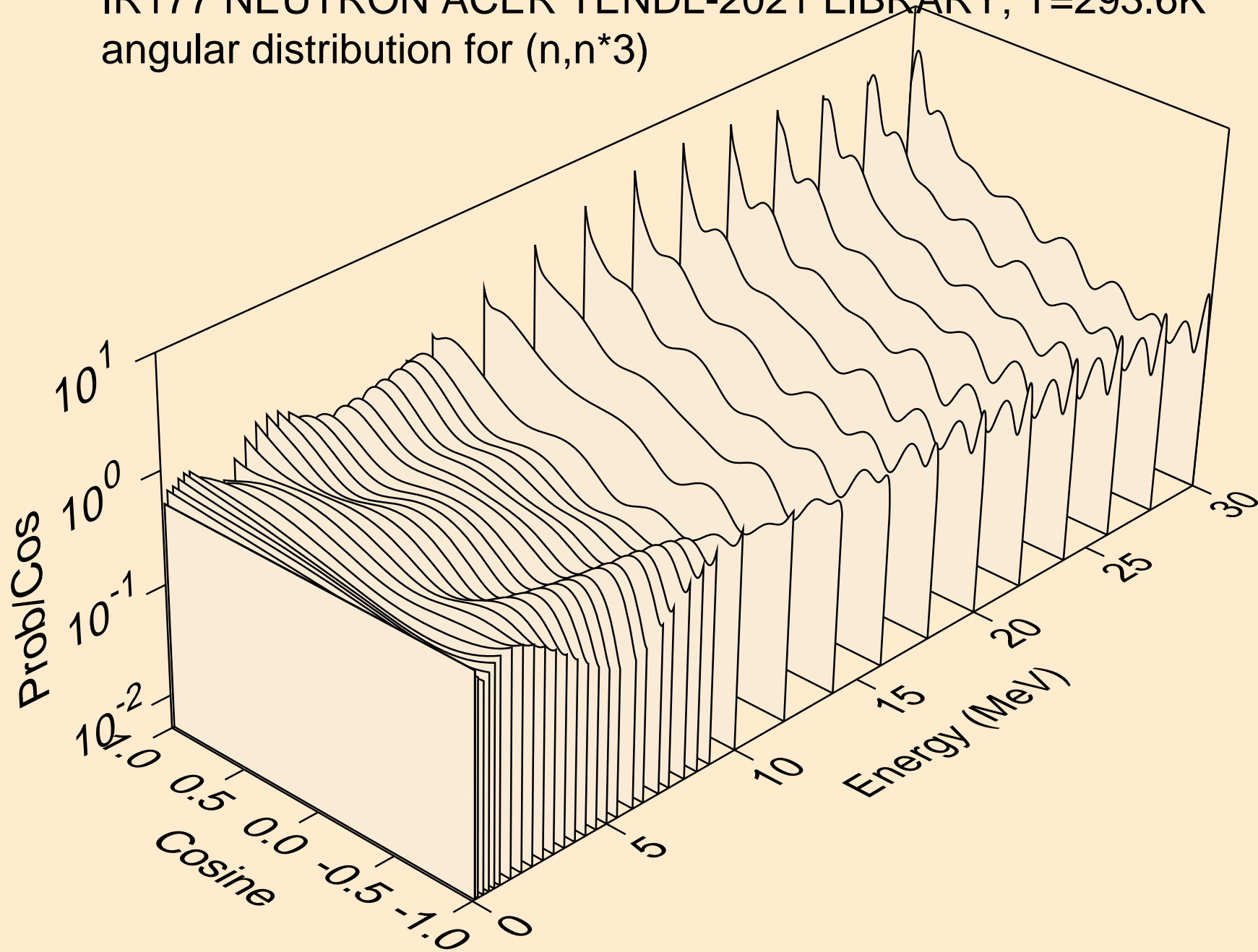


IR177 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for (n,n\*2)

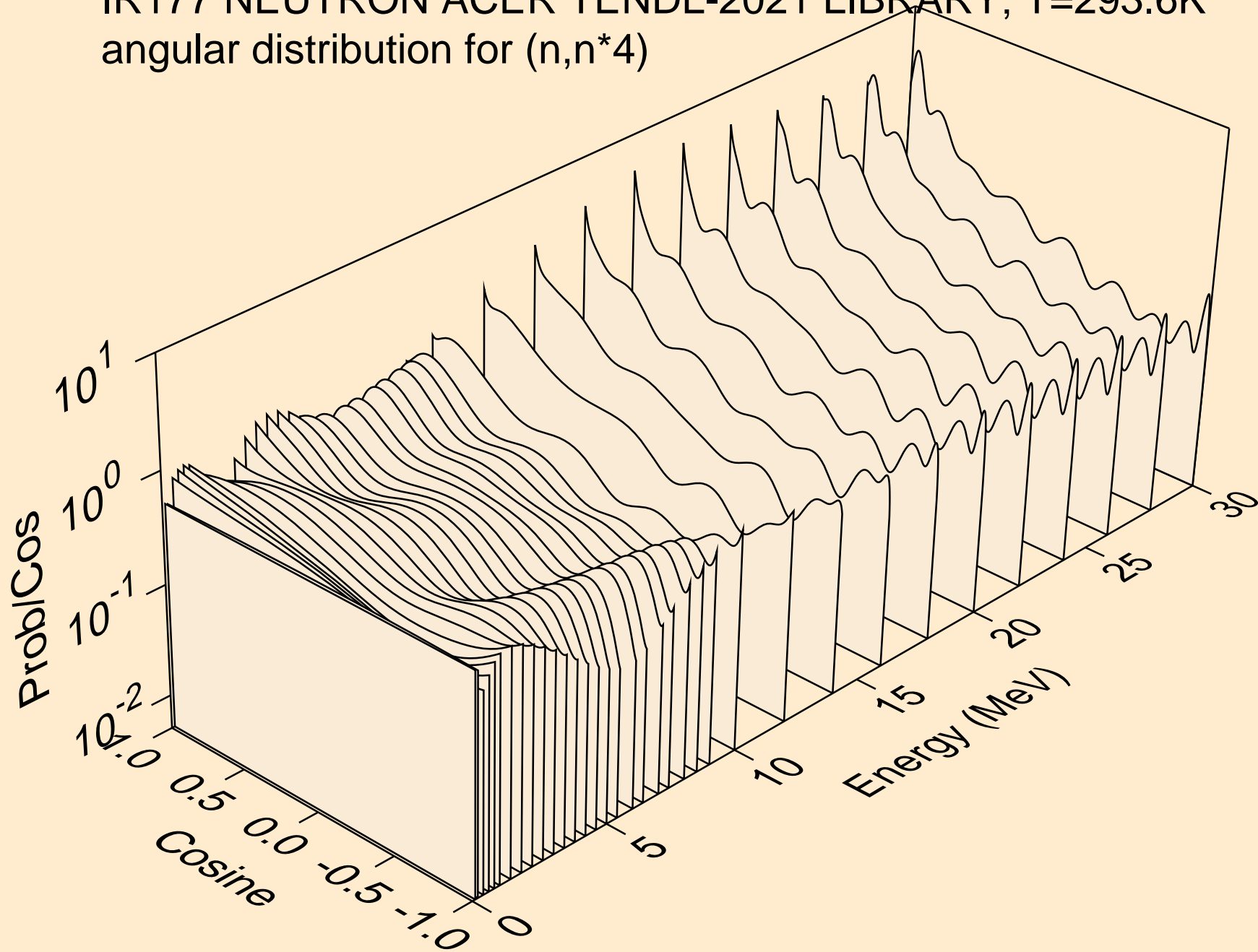




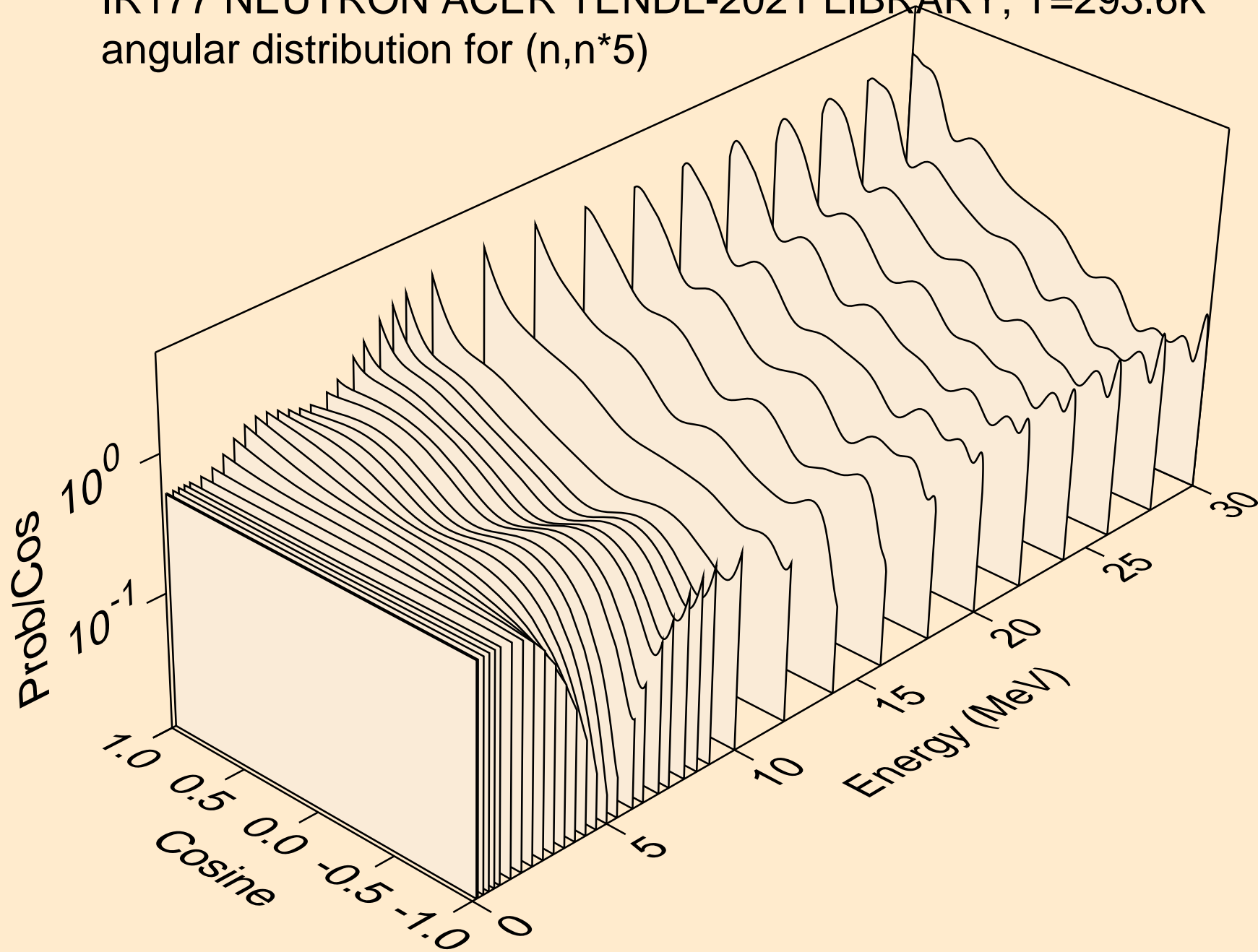
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angular distribution for (n,n\*3)



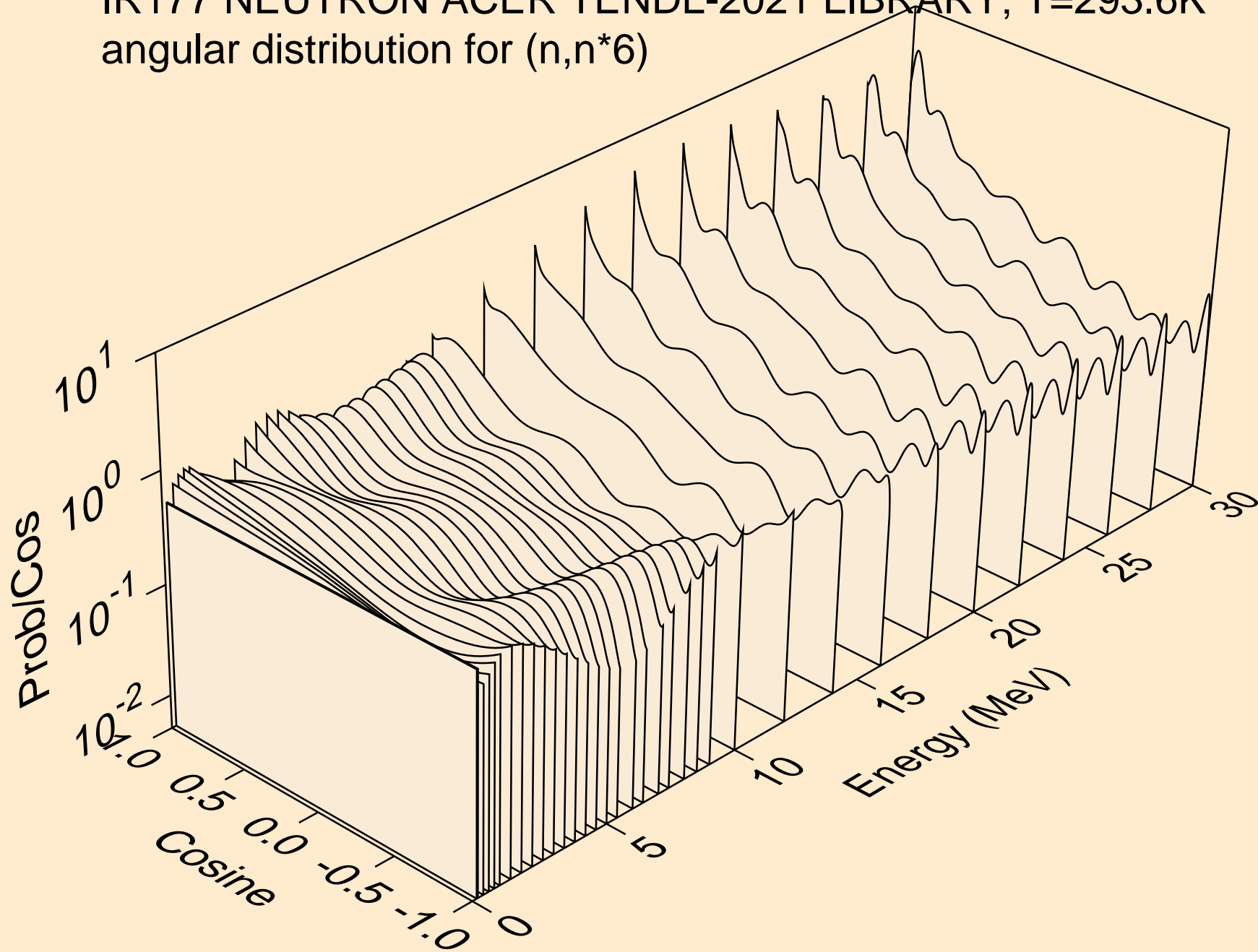
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angular distribution for (n,n\*4)



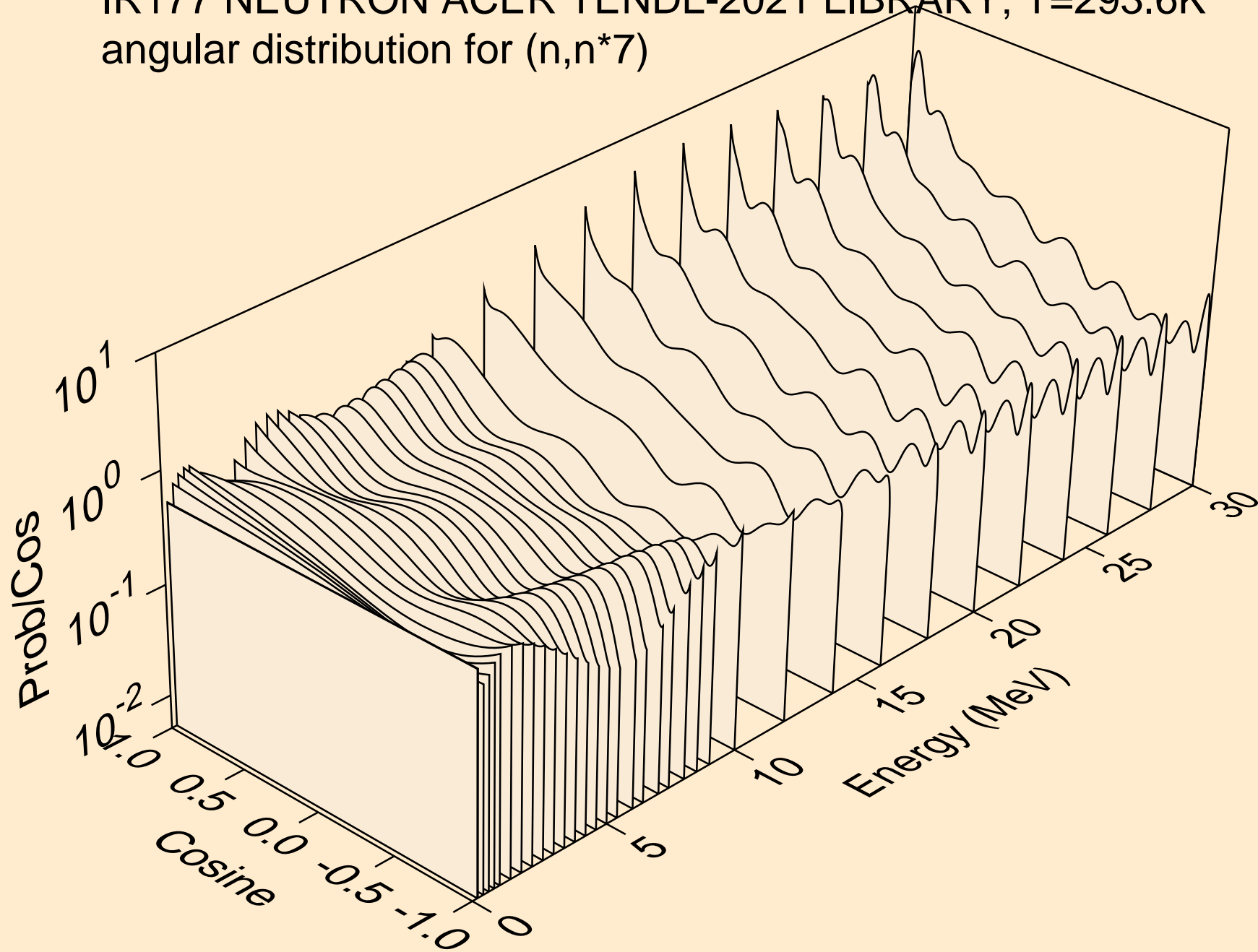
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angular distribution for (n,n\*5)



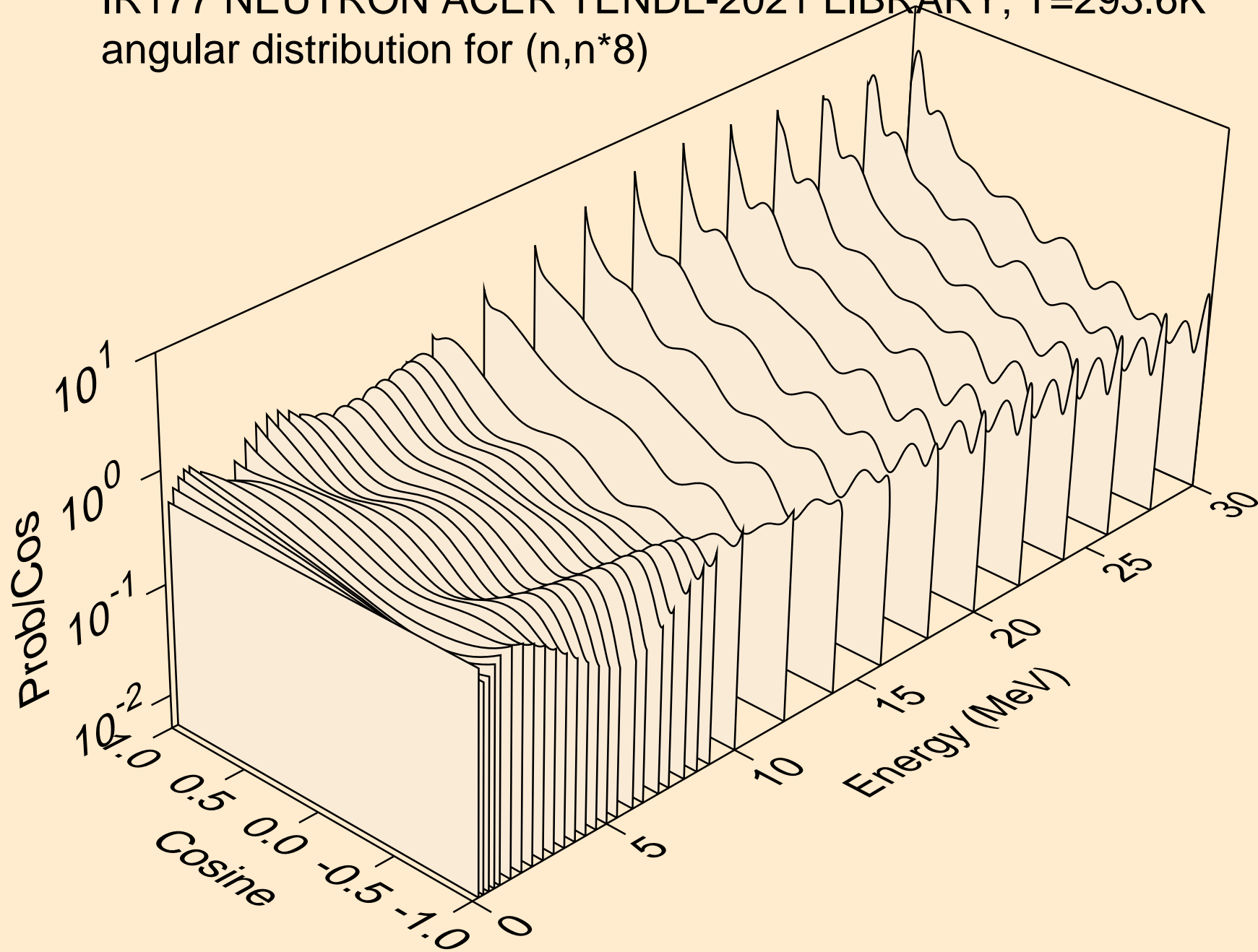
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angular distribution for (n,n\*6)



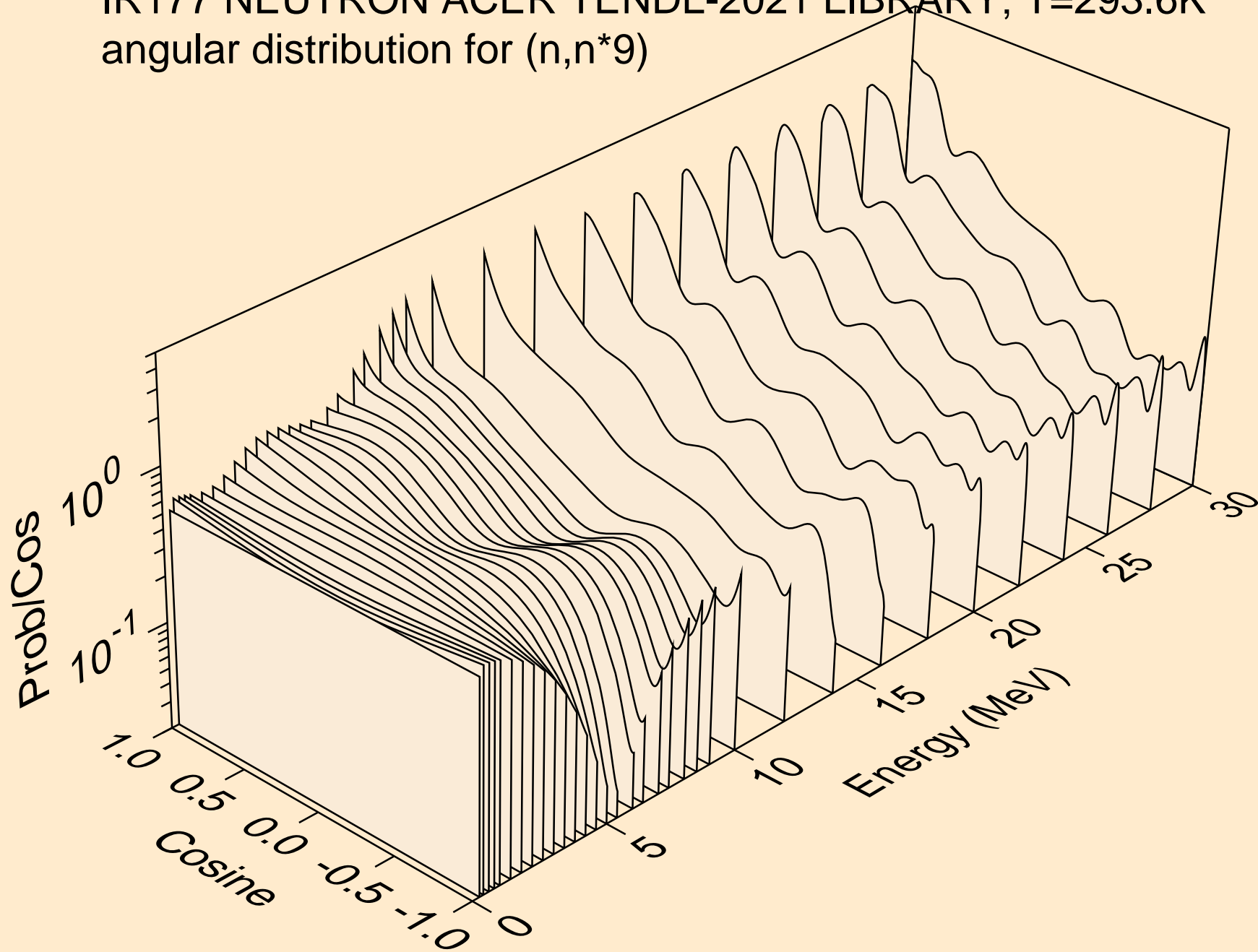
IR177 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for (n,n\*7)



IR177 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for (n,n\*8)

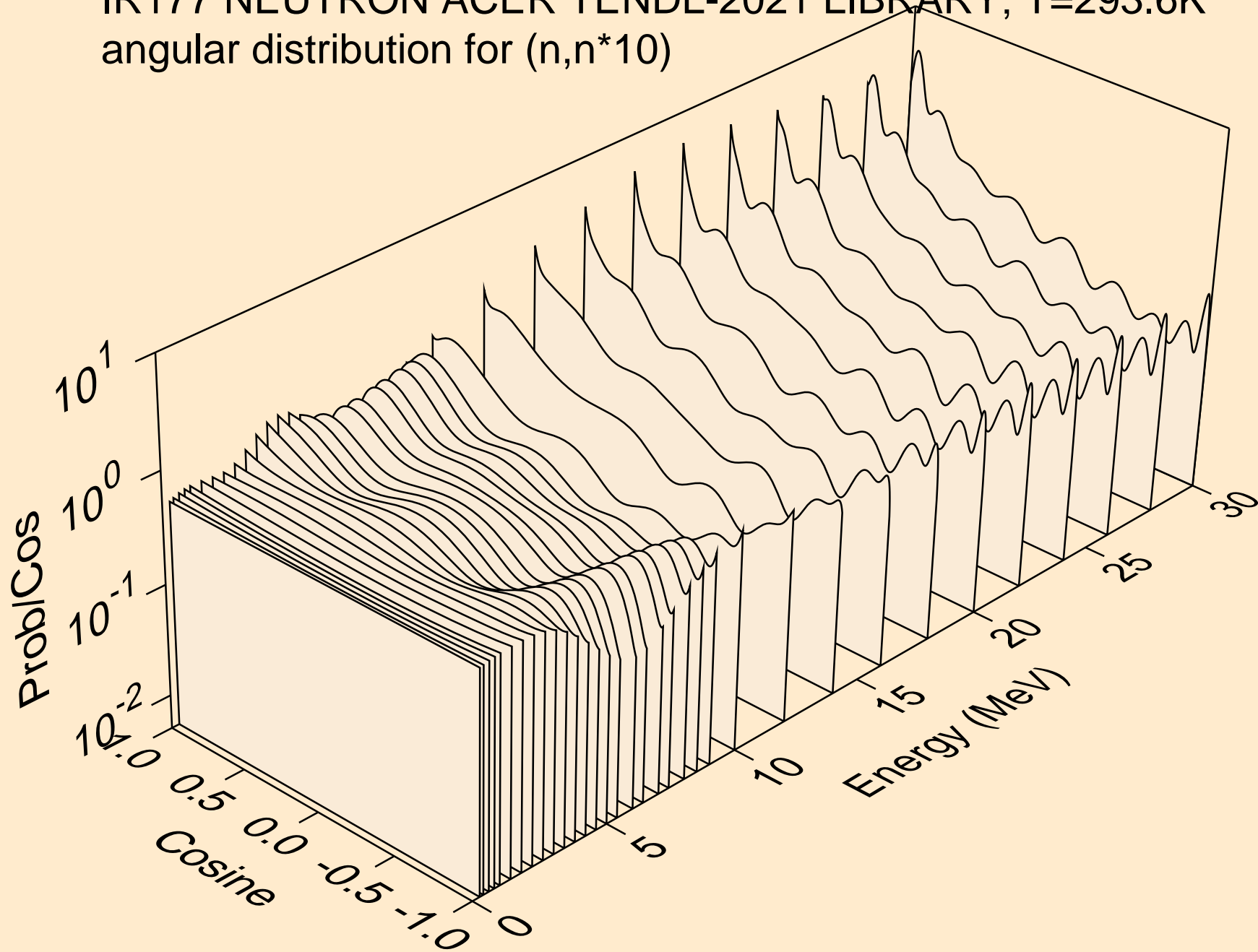


IR177 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for (n,n\*9)



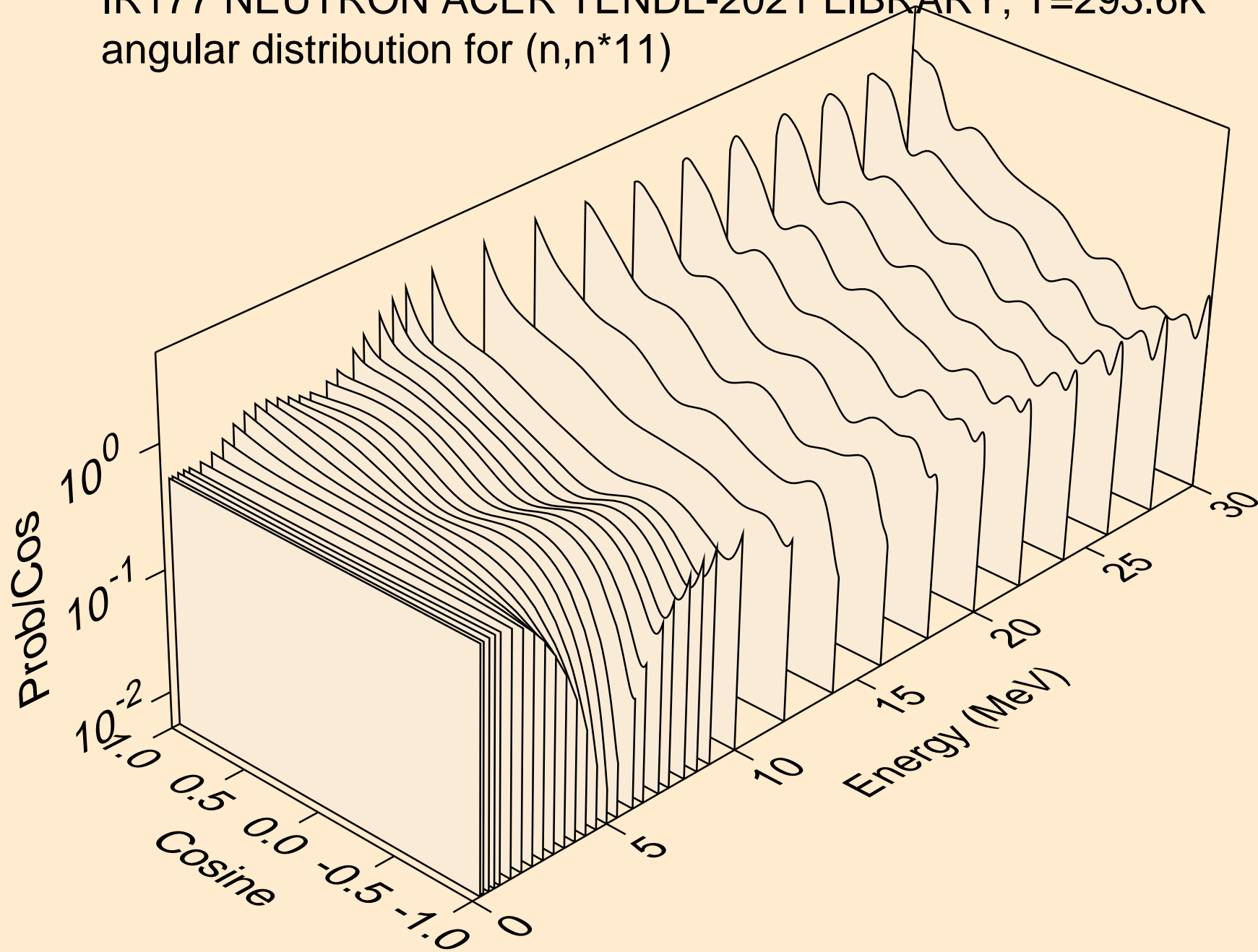


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angular distribution for (n,n\*10)

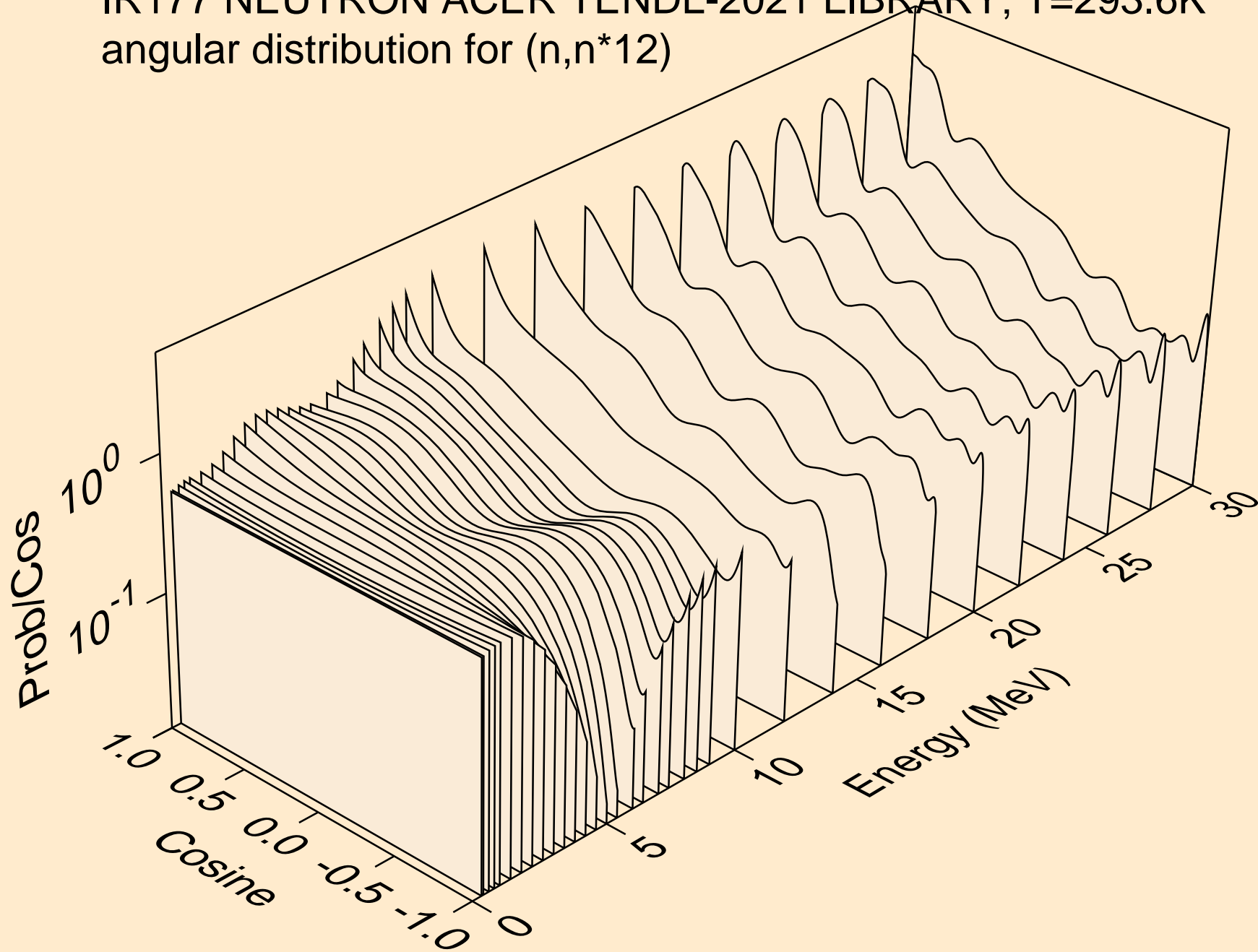




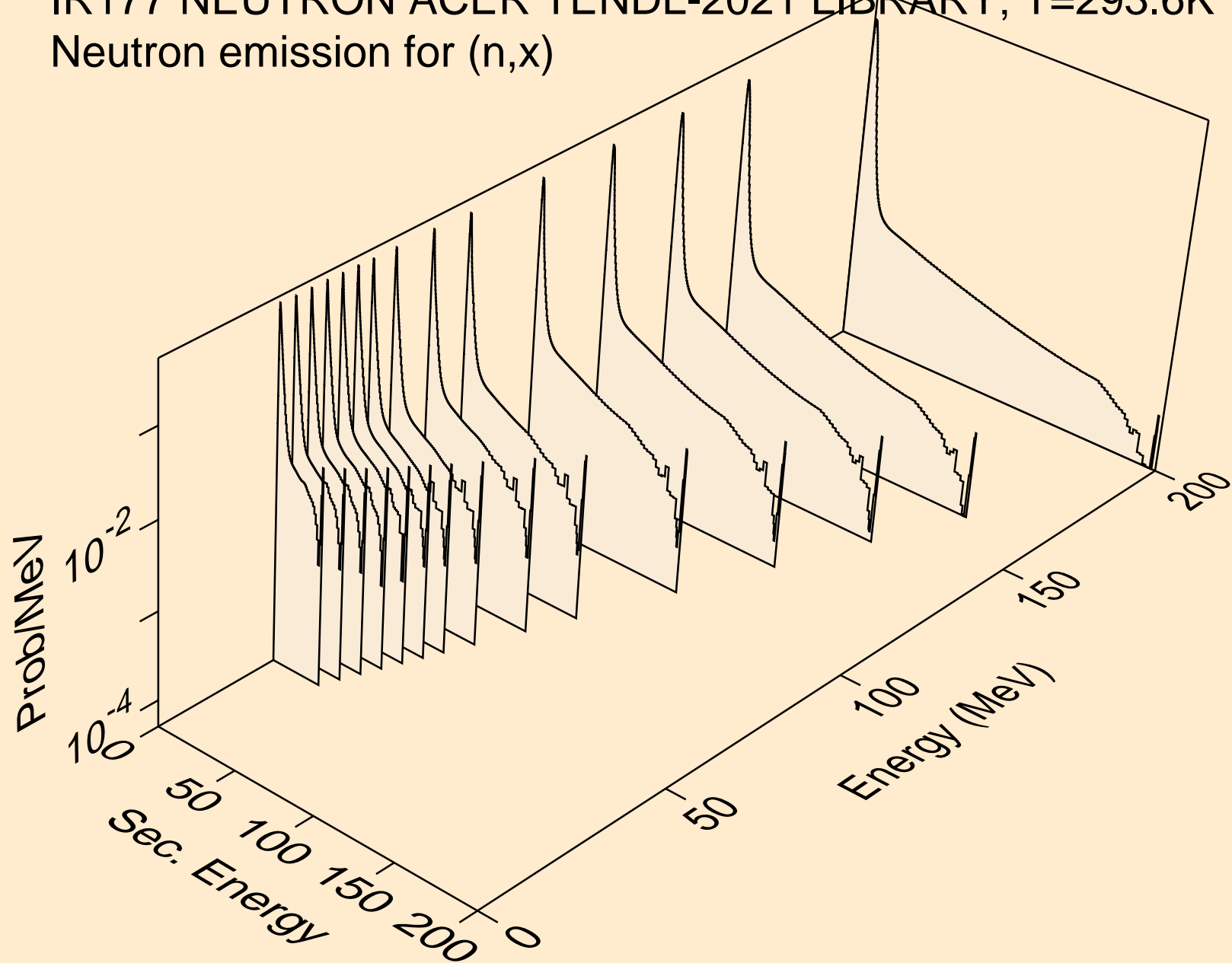
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angular distribution for (n,n\*11)



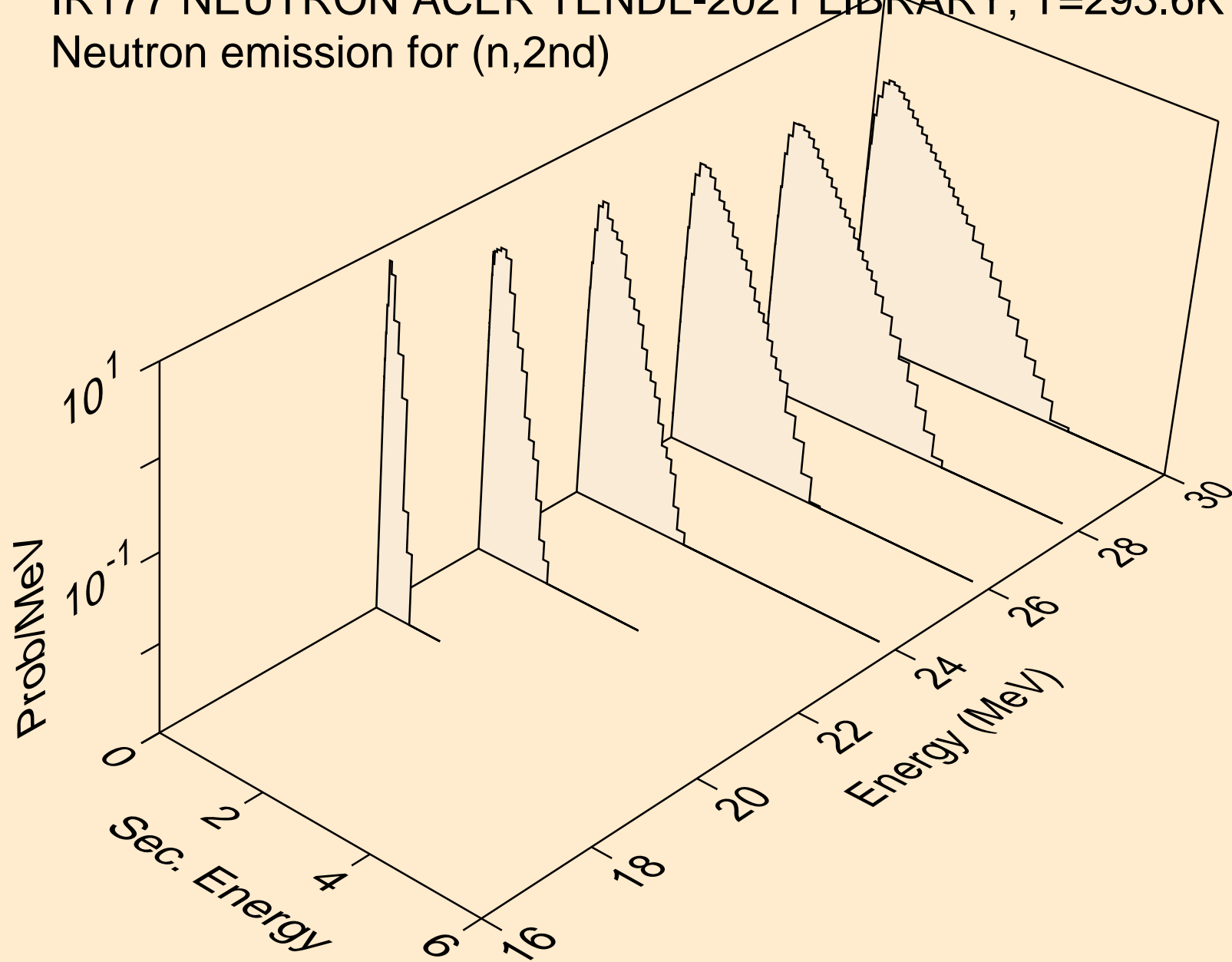
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angular distribution for (n,n\*12)



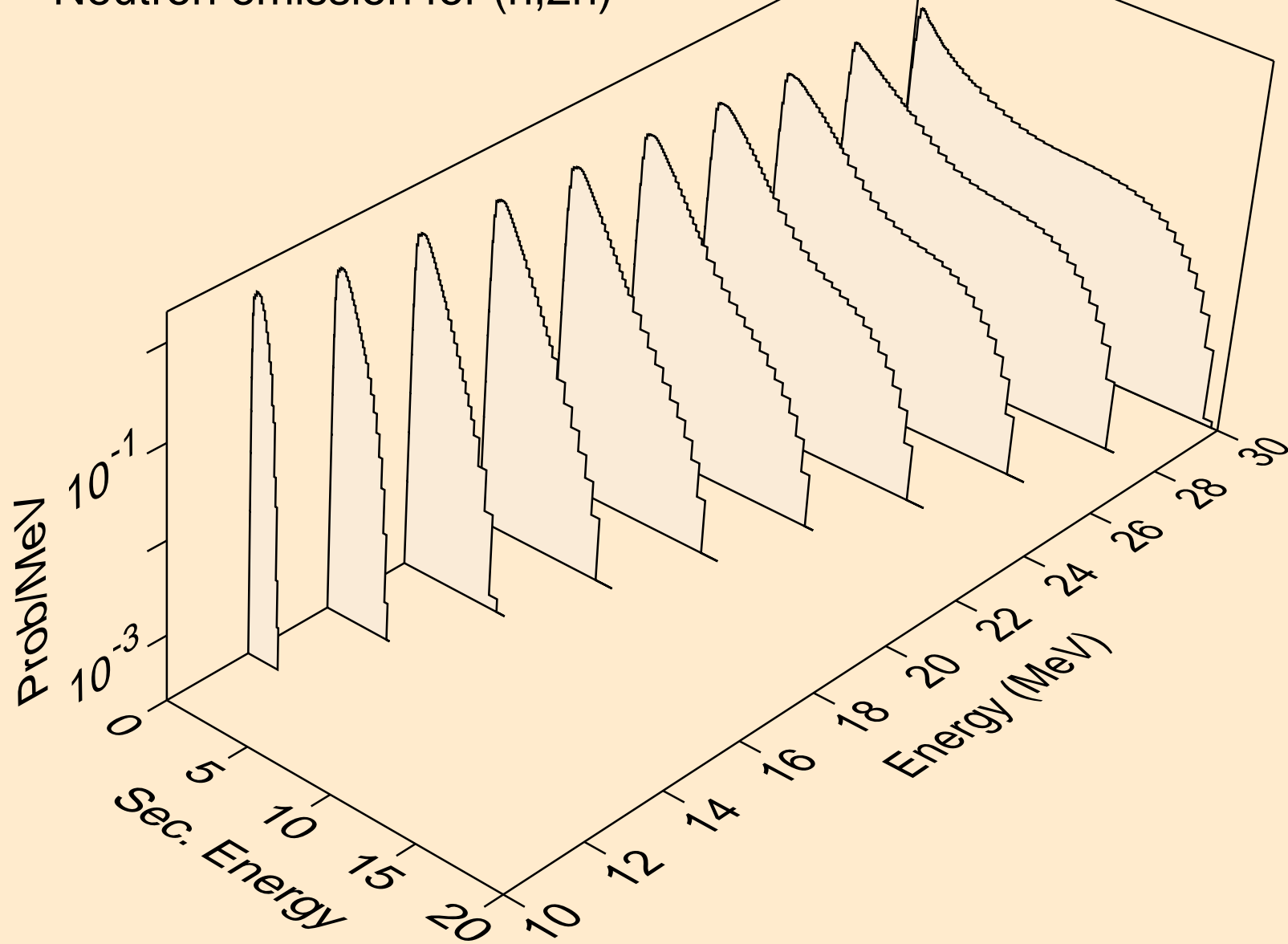
IR177 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,x)



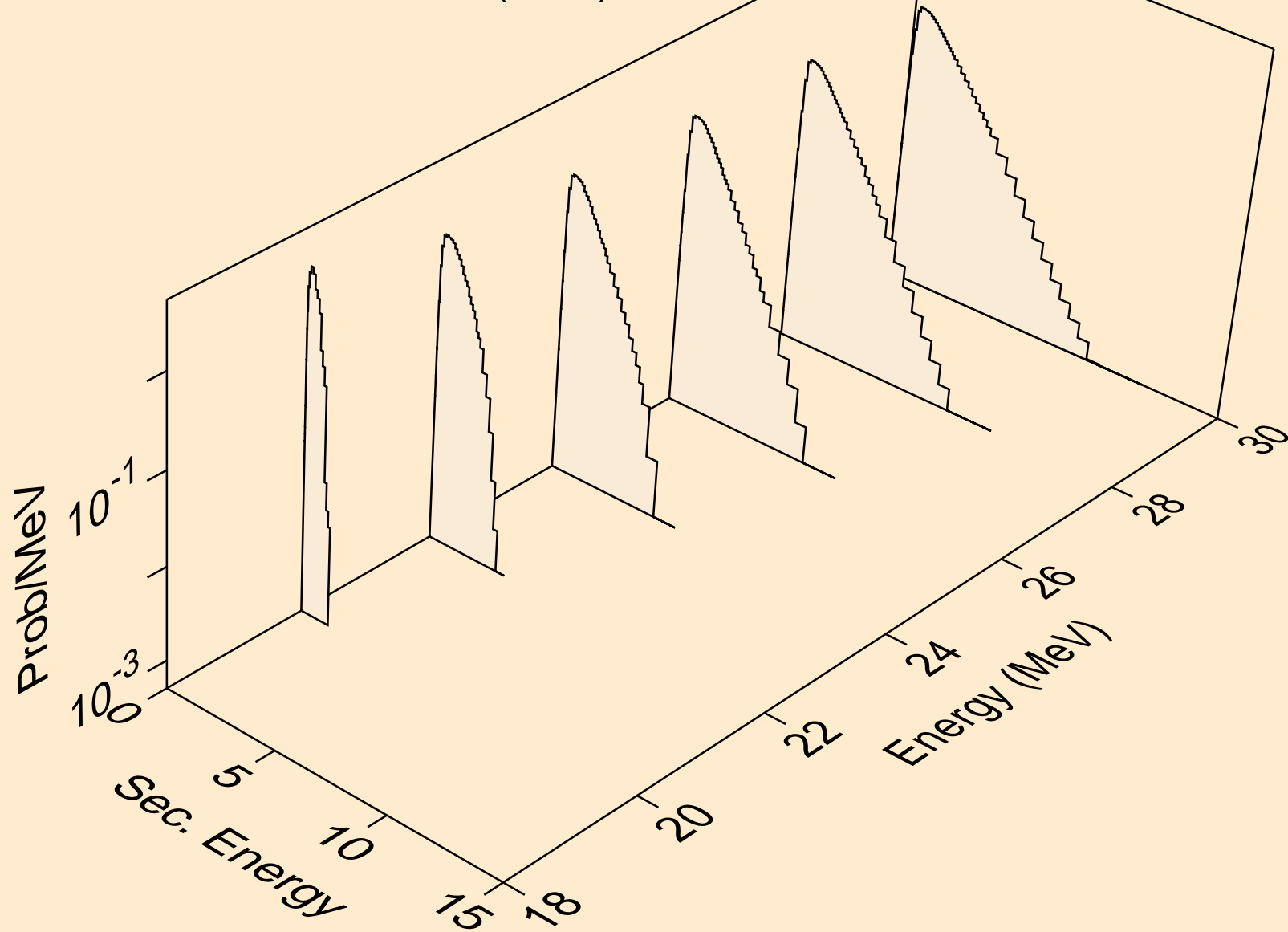
IR177 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,2nd)



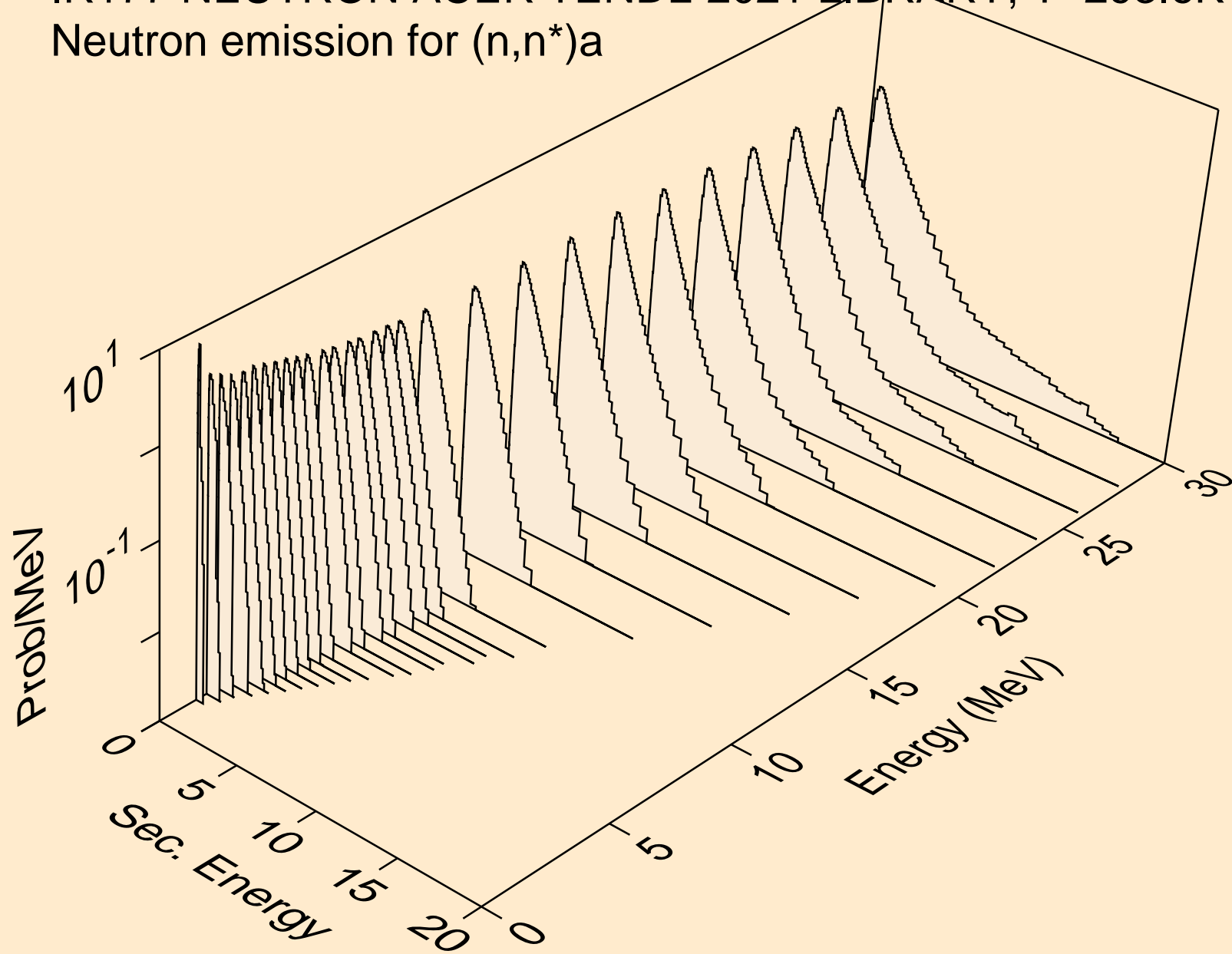
IR177 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,2n)



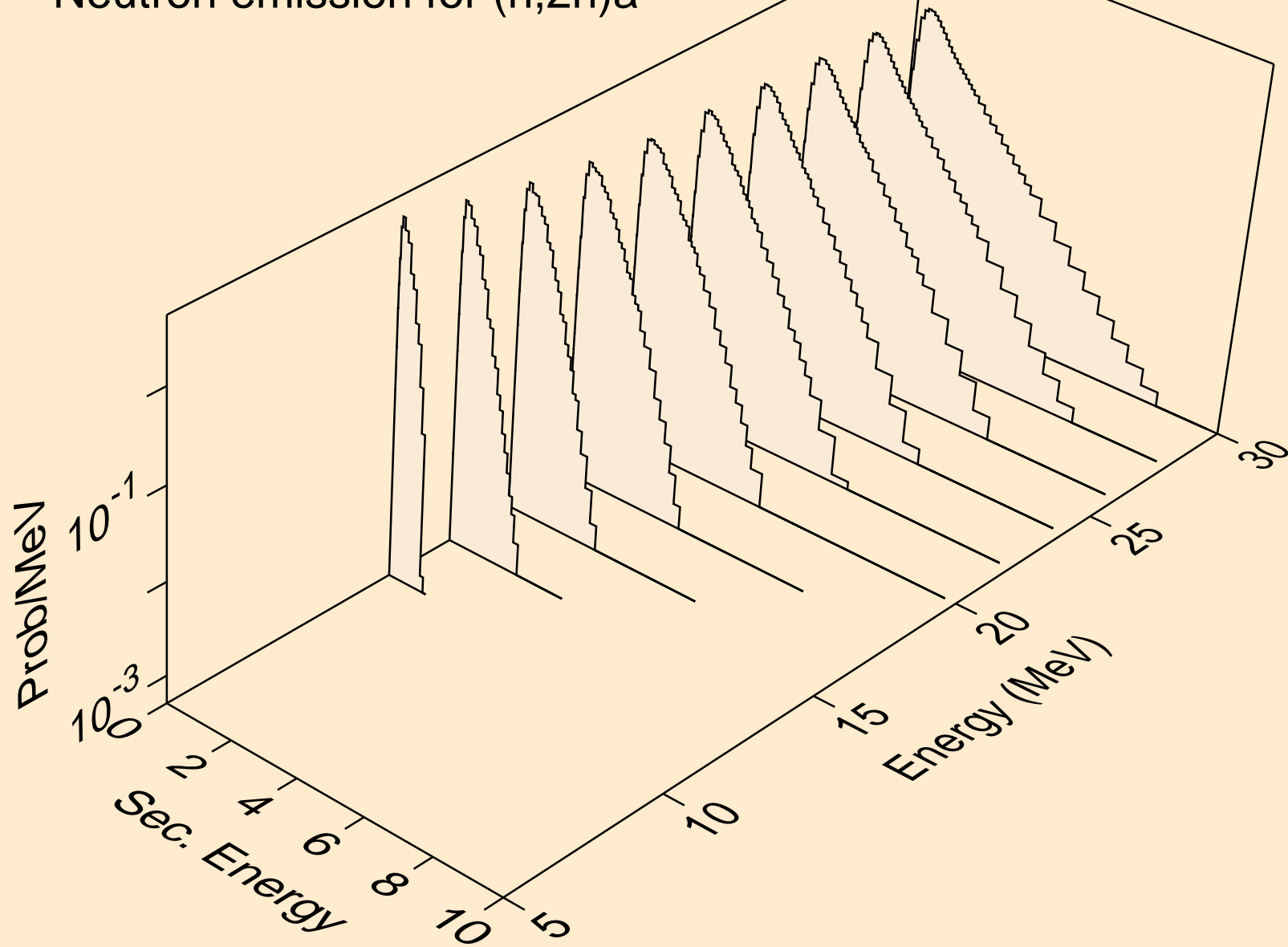
IR177 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,3n)



IR177 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,n\*)a

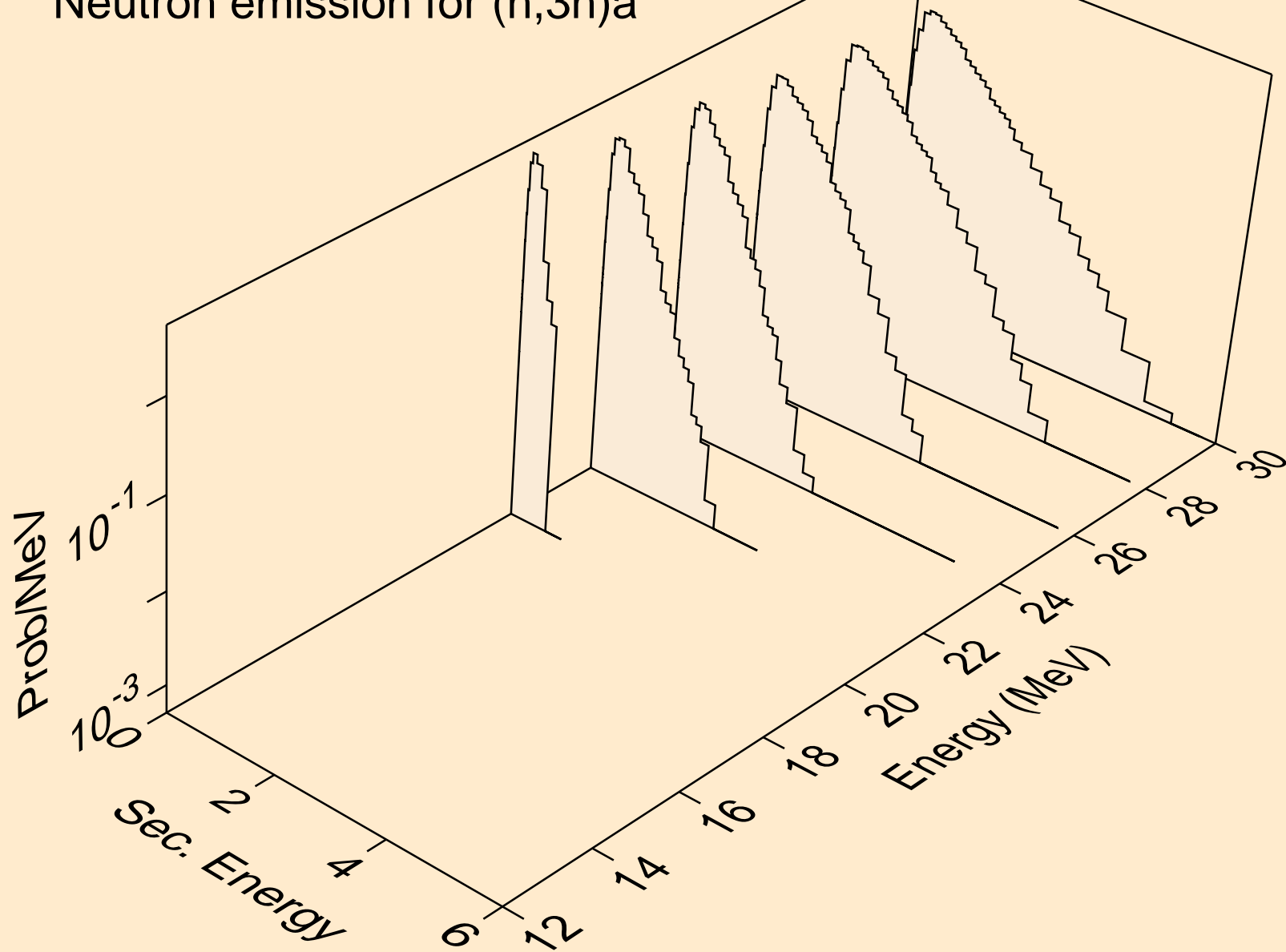


IR177 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,2n)<sub>a</sub>

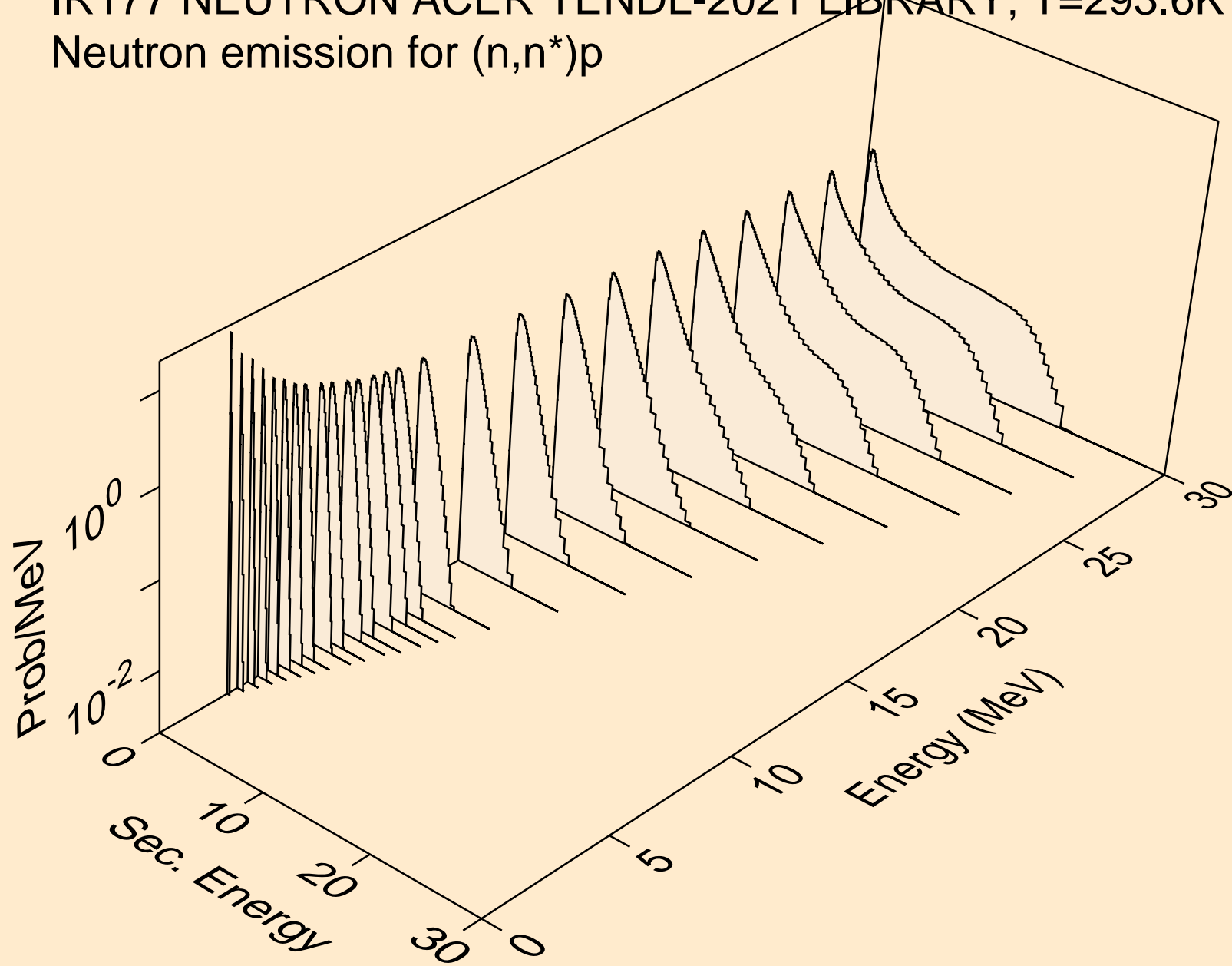




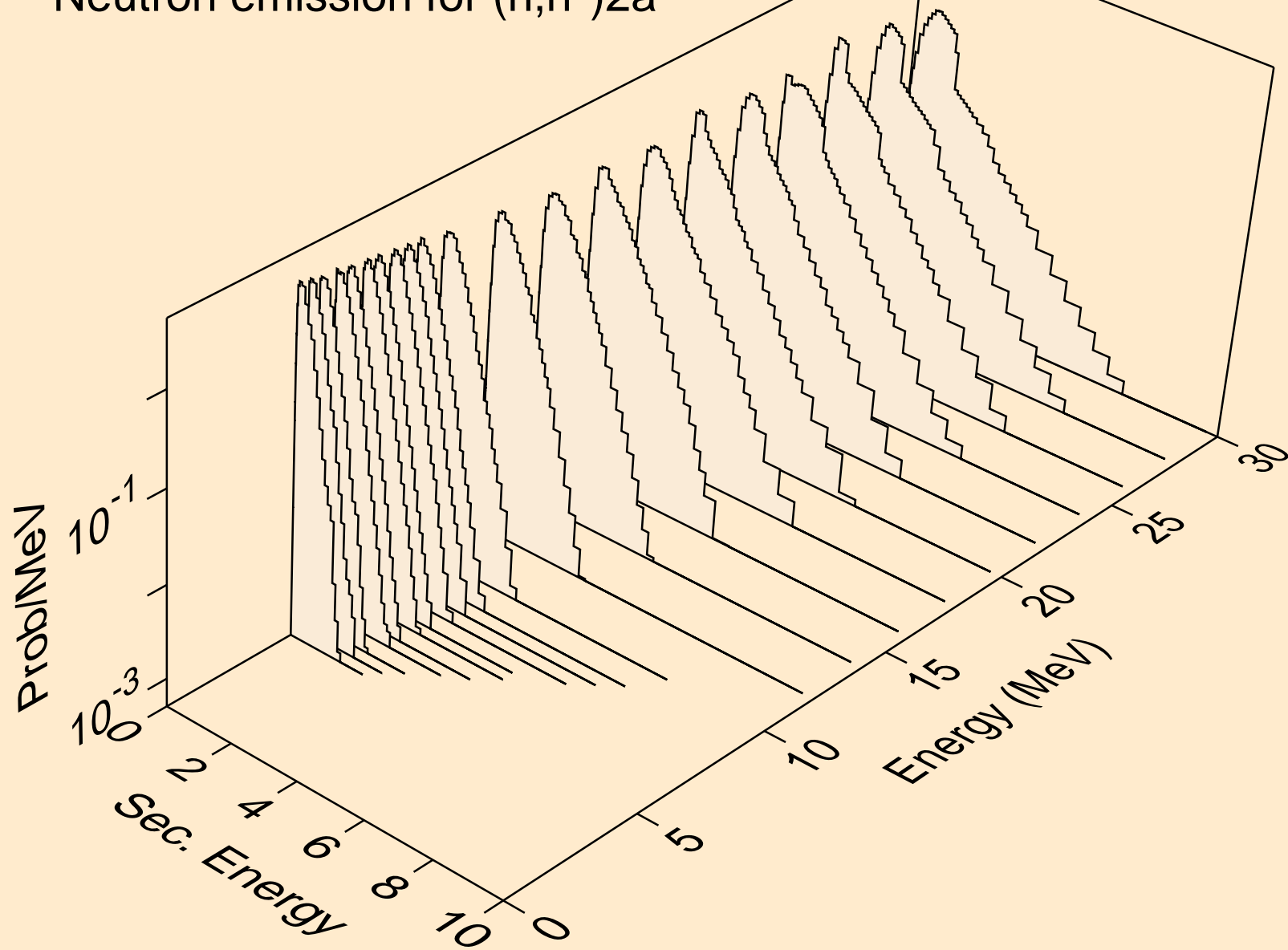
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Neutron emission for (n,3n)a



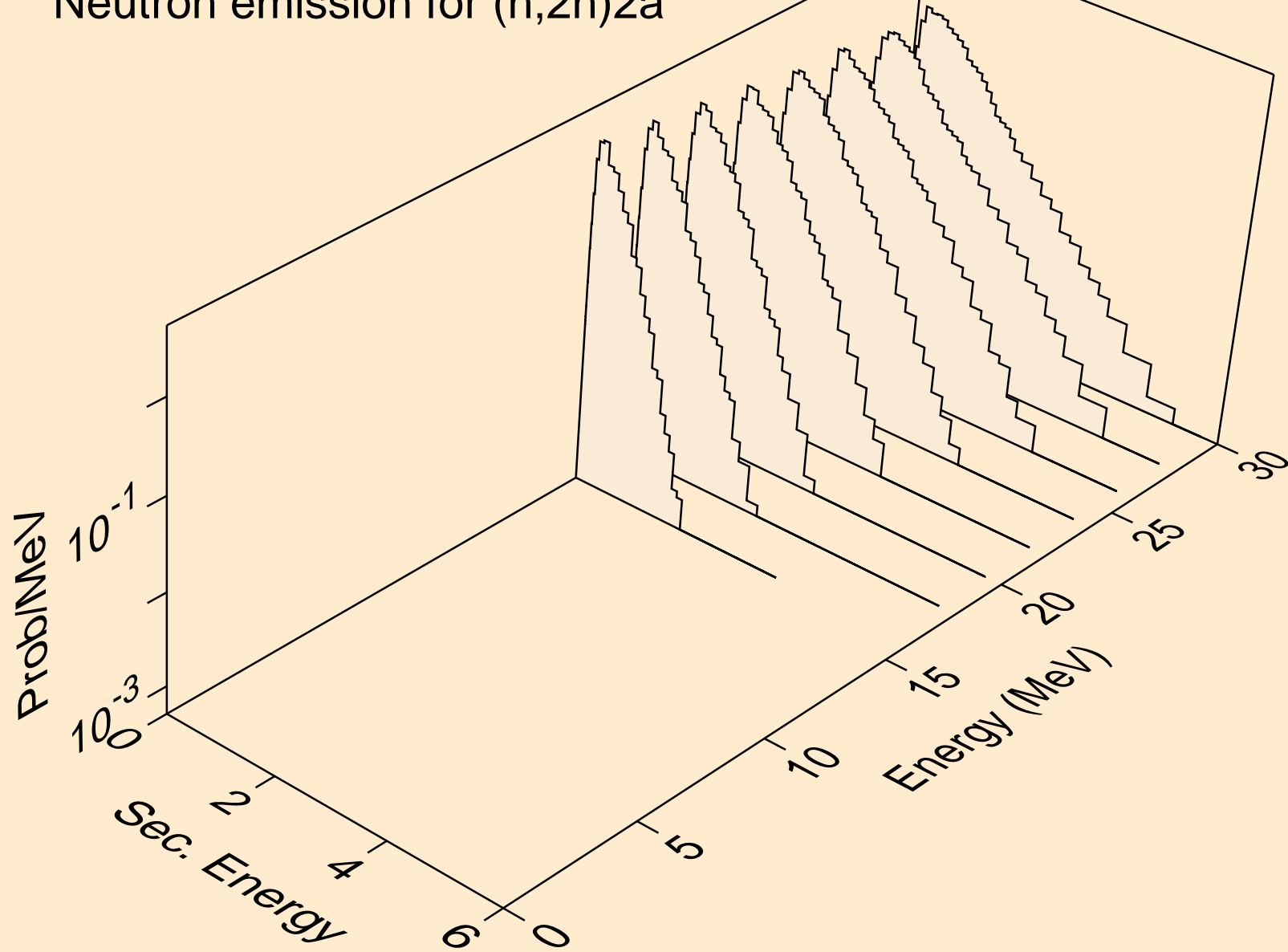
IR177 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,n\*)p



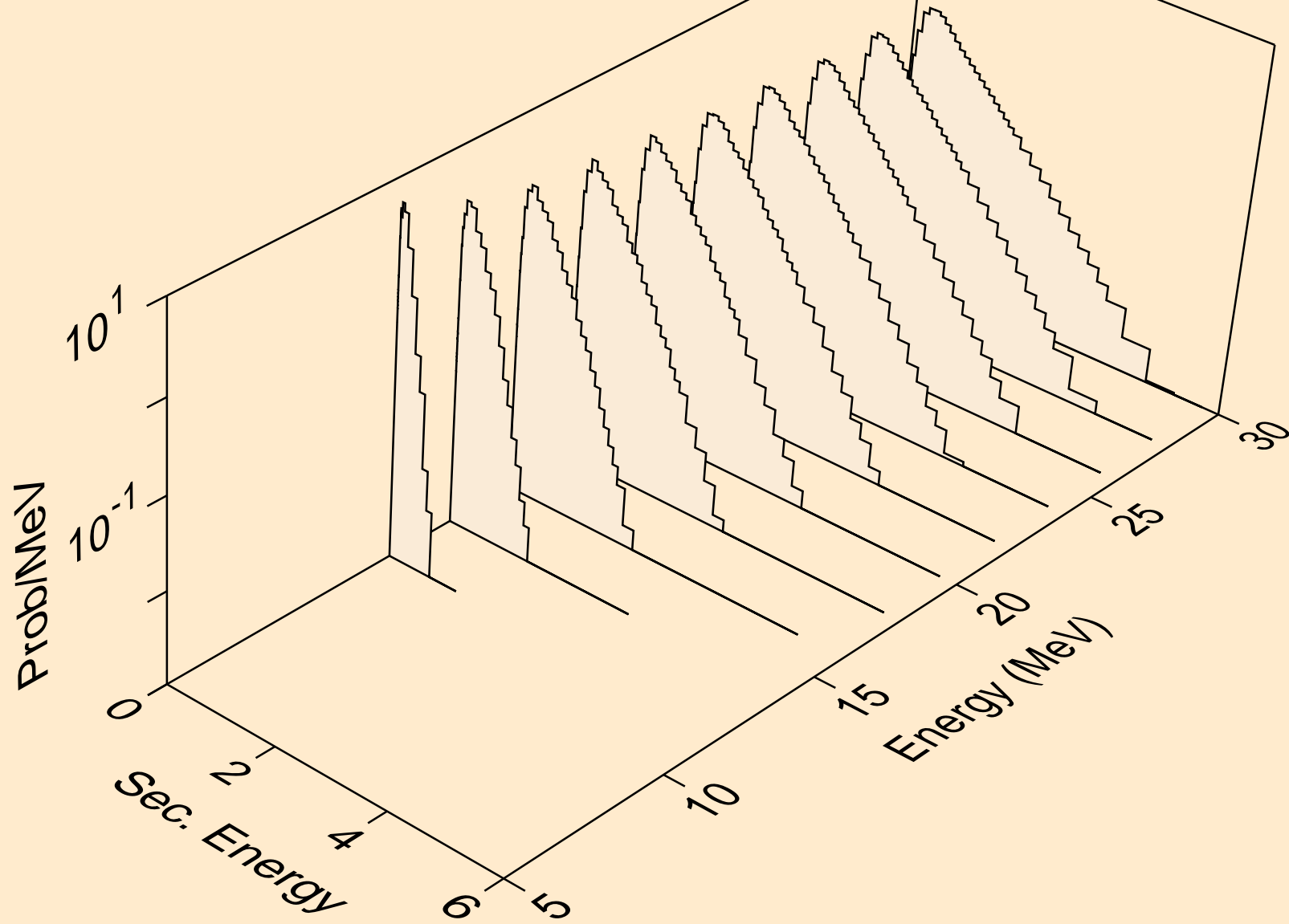
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Neutron emission for (n,n\*)2a



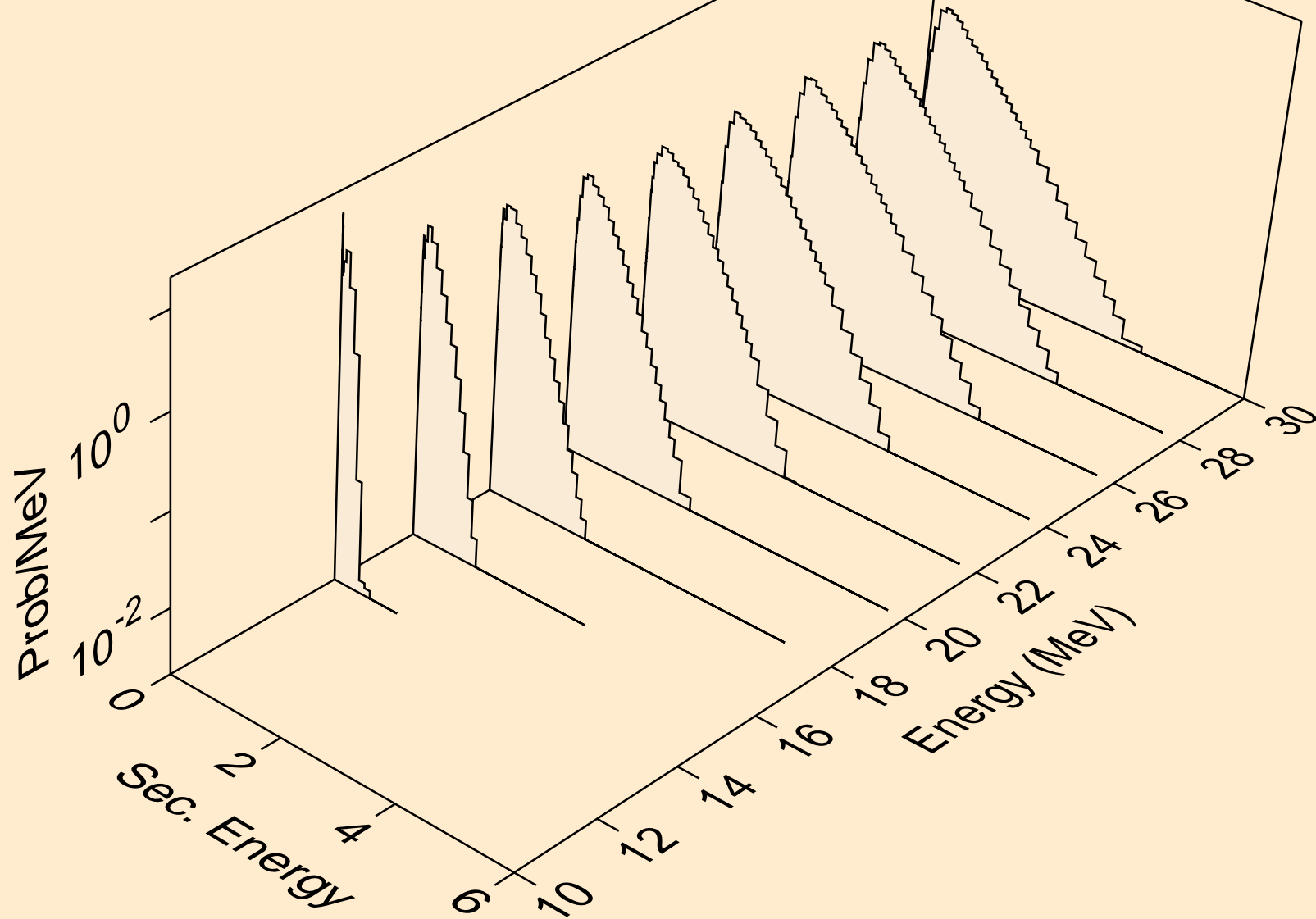
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Neutron emission for (n,2n)2a



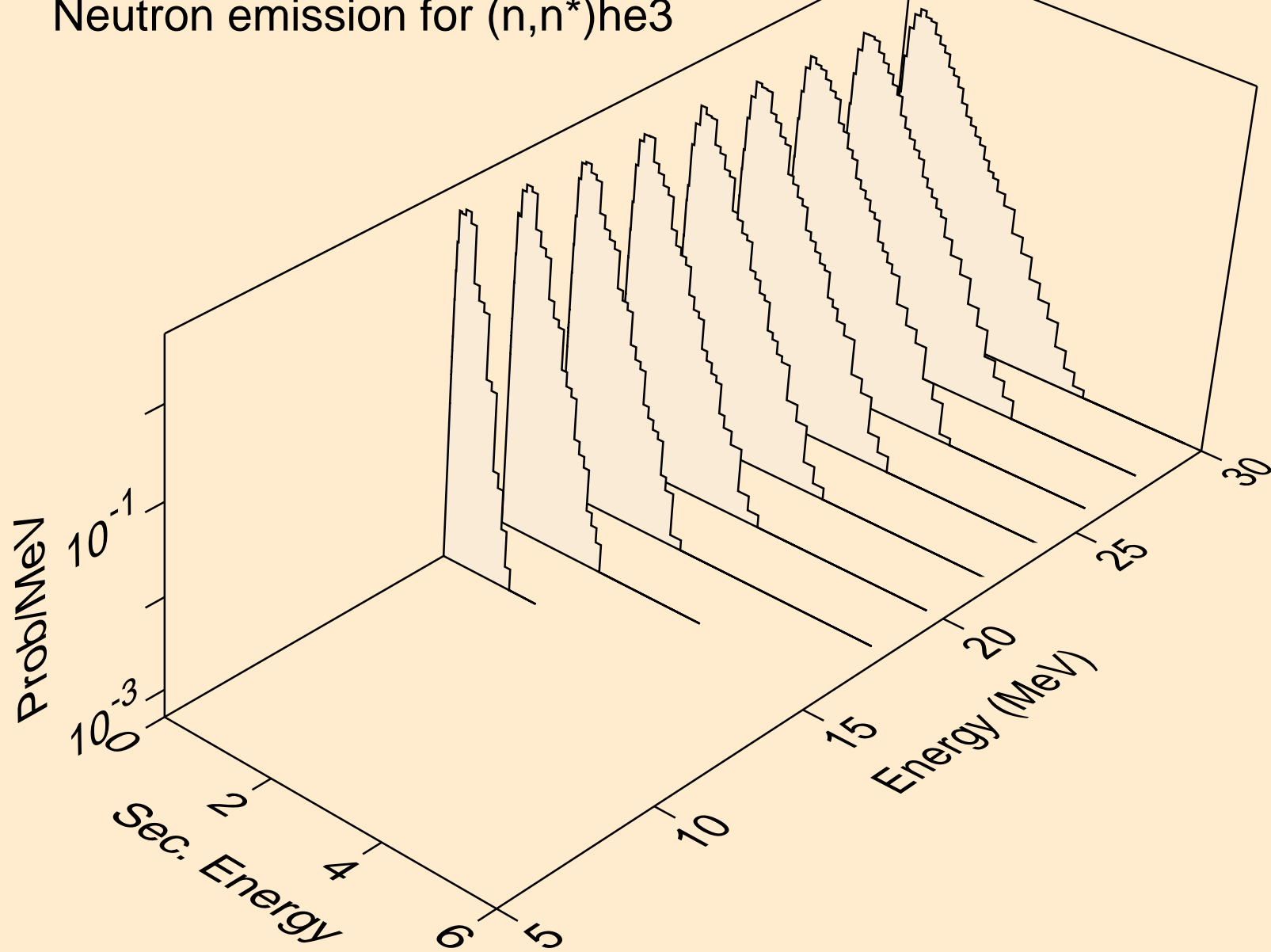
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Neutron emission for (n,n\*)d



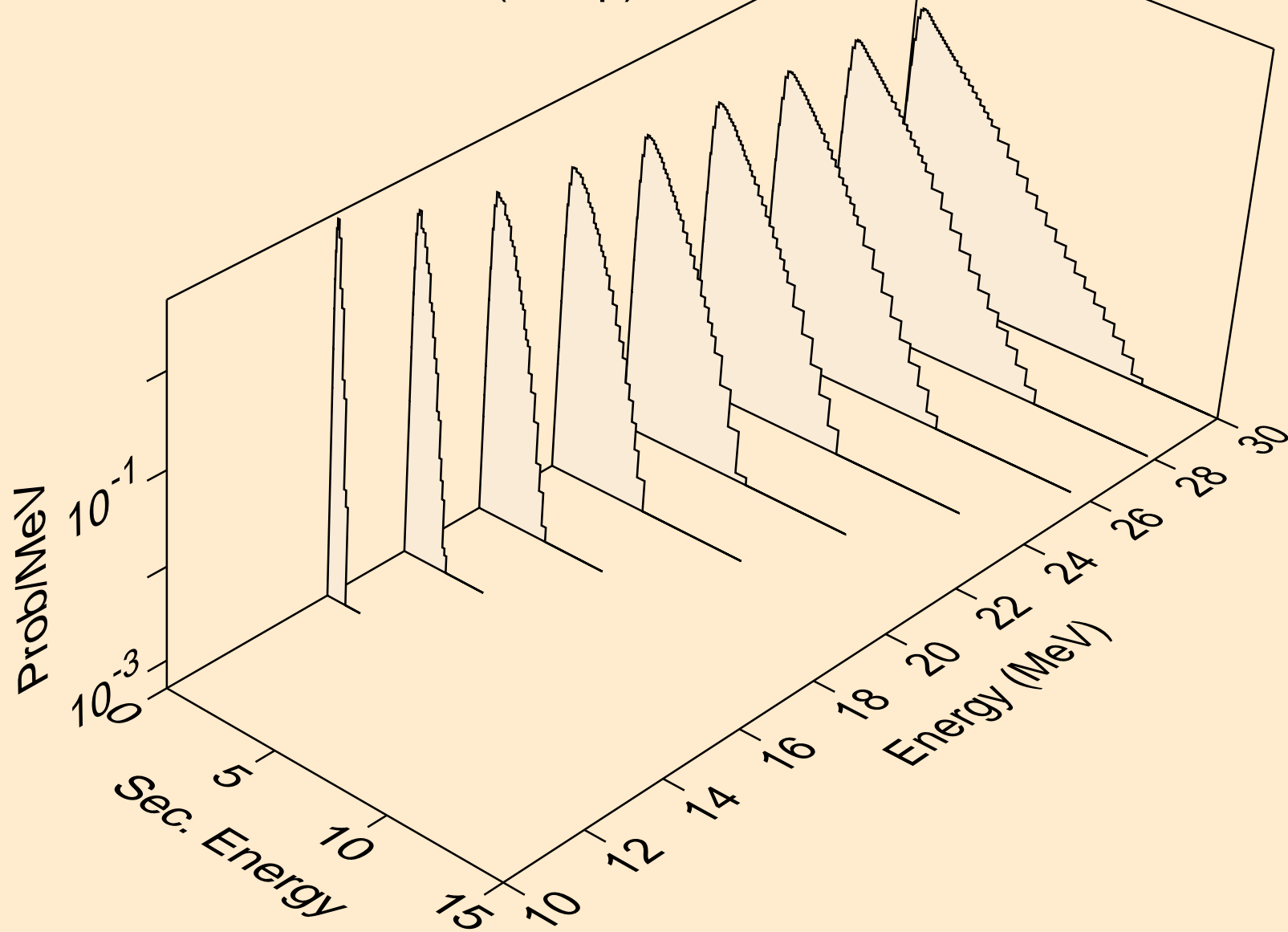
IR177 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,n\*)t



IR177 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,n\*)he3

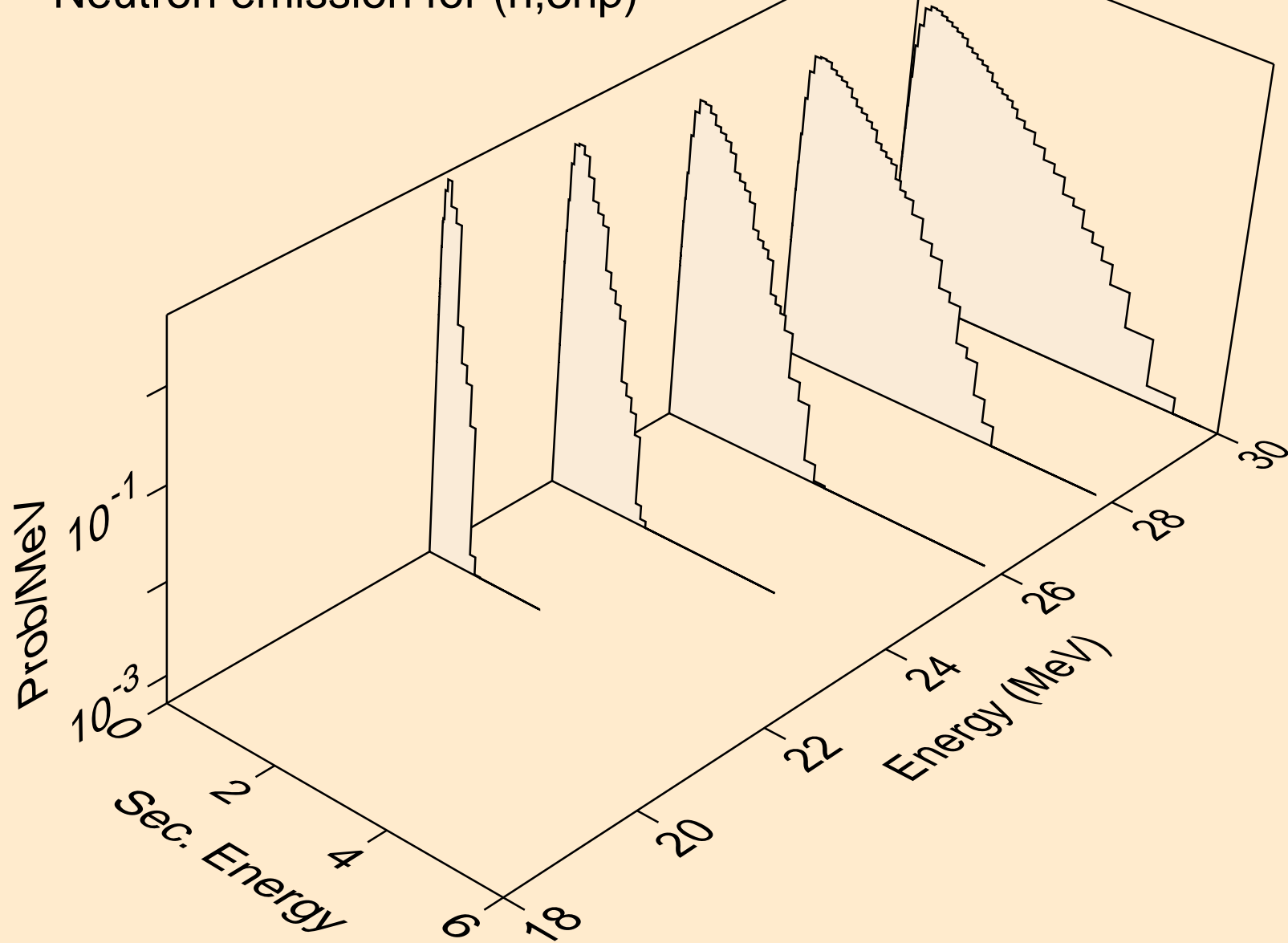


IR177 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,2np)

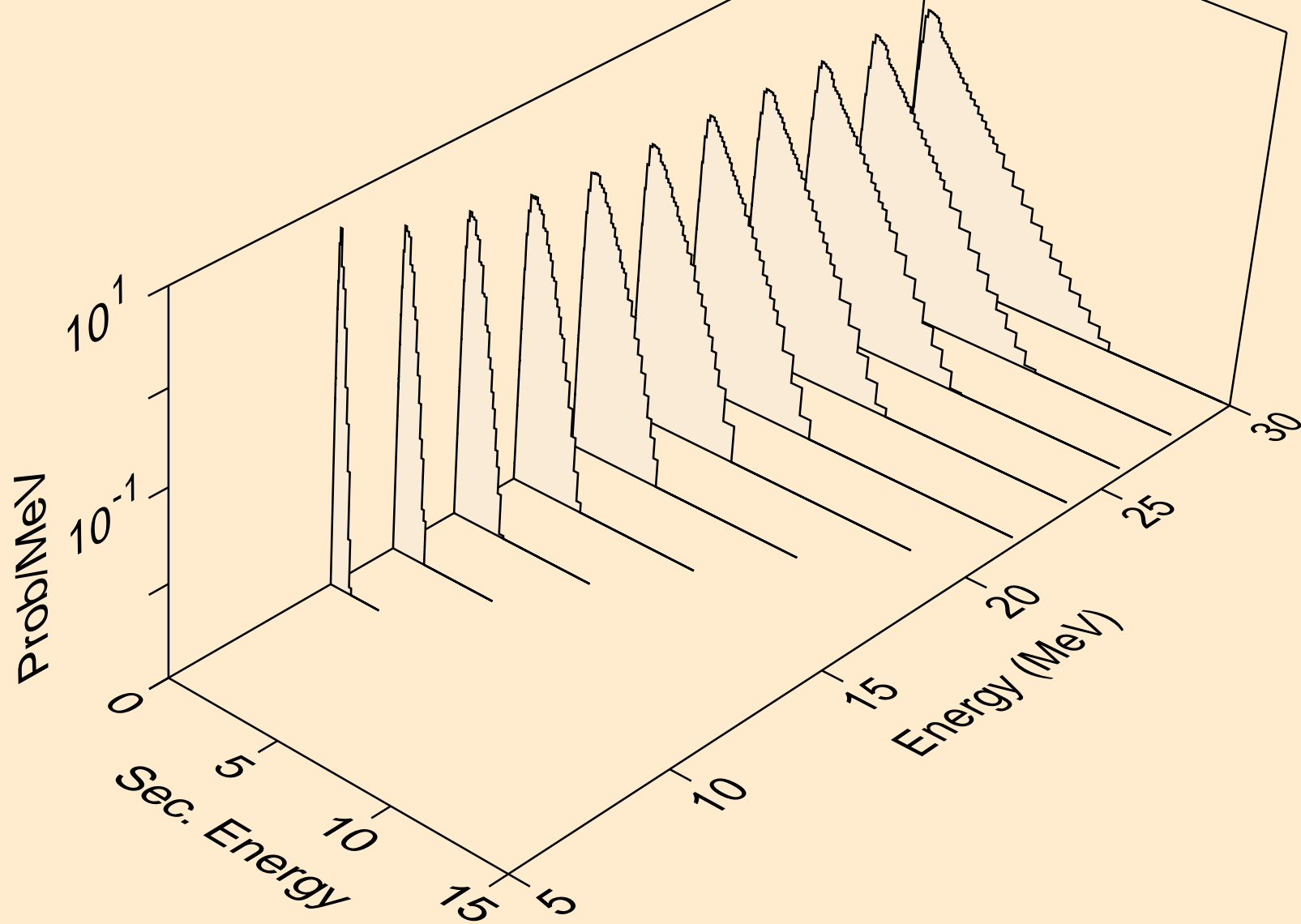




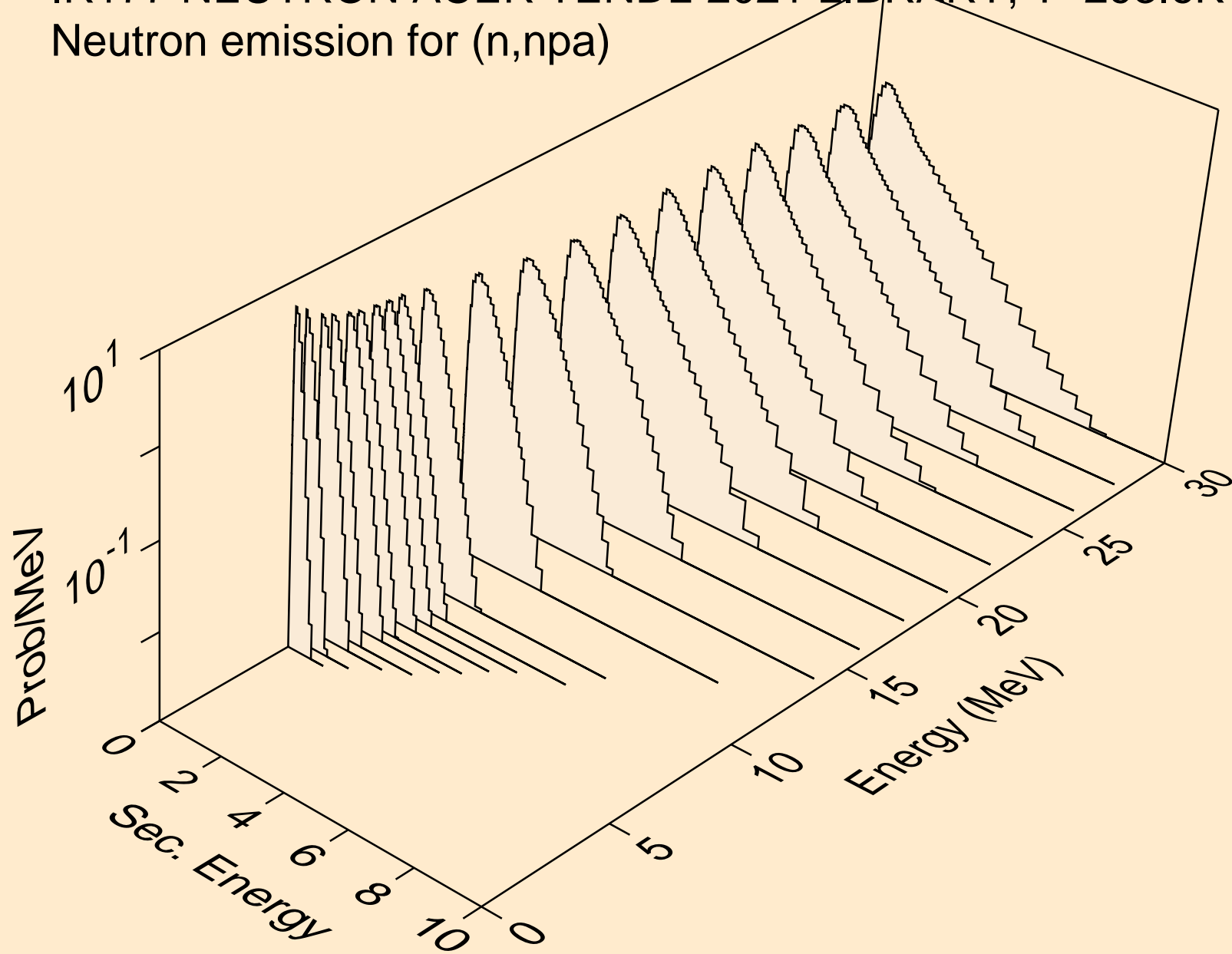
IR177 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,3np)



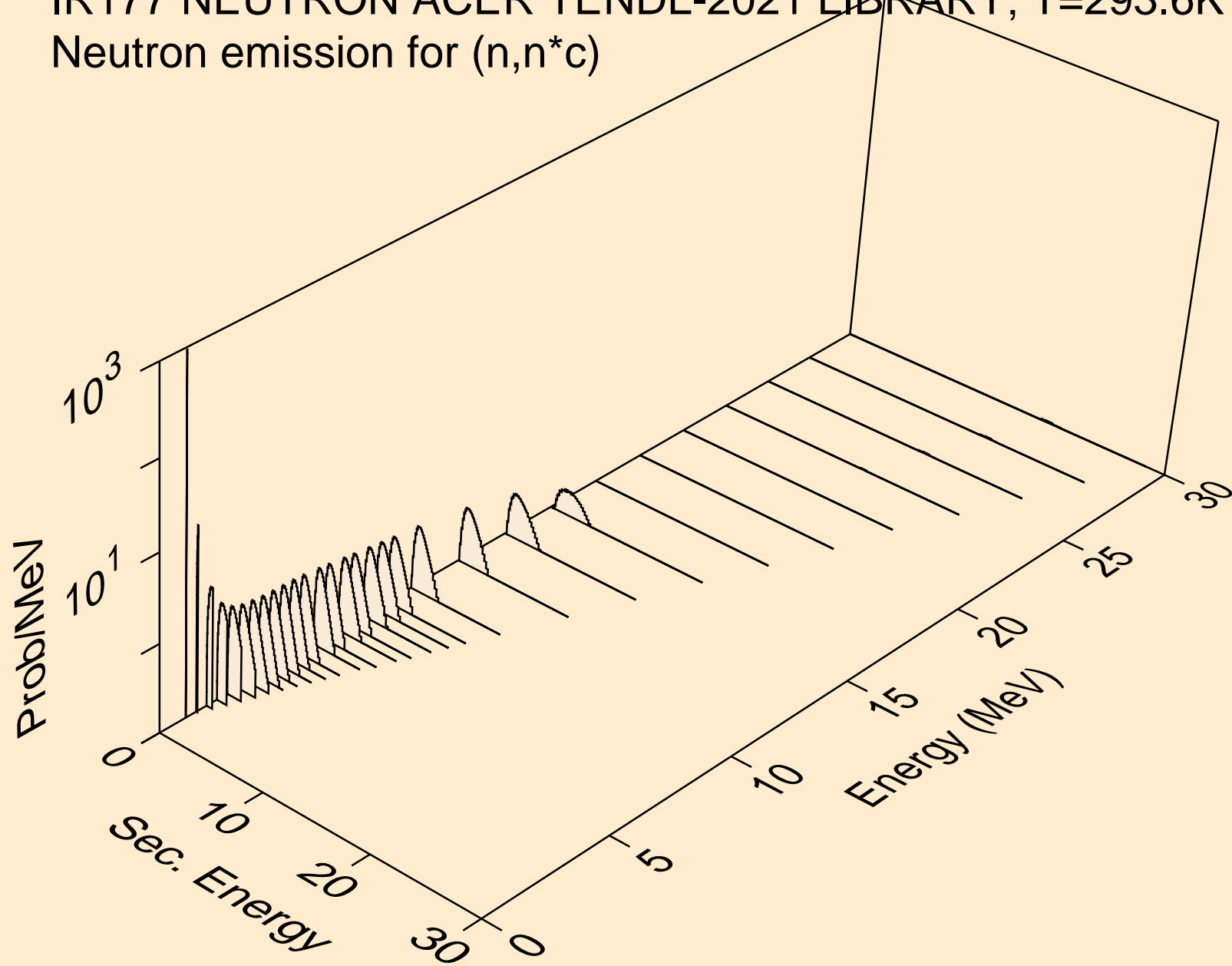
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Neutron emission for (n,2np)



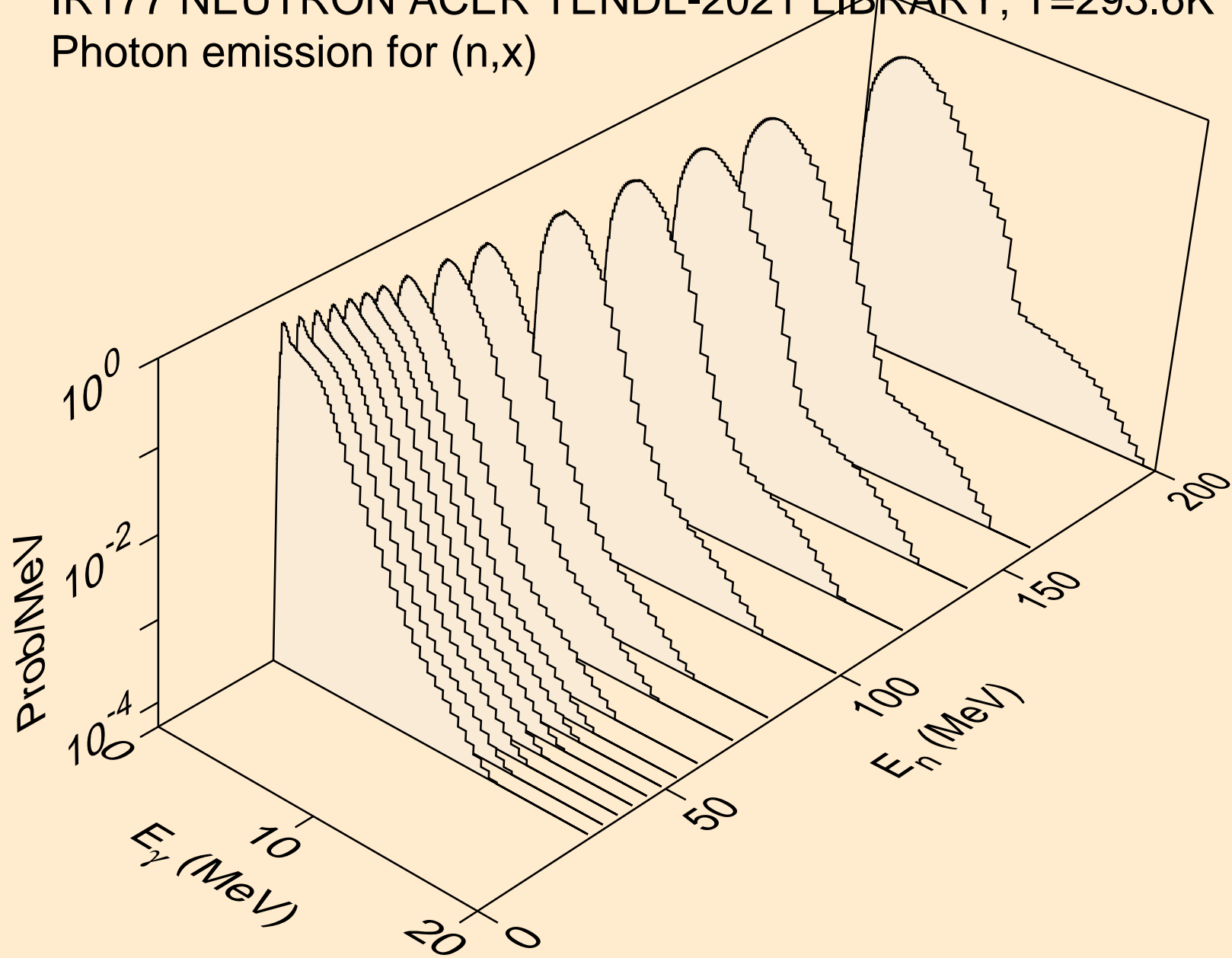
IR177 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,npa)



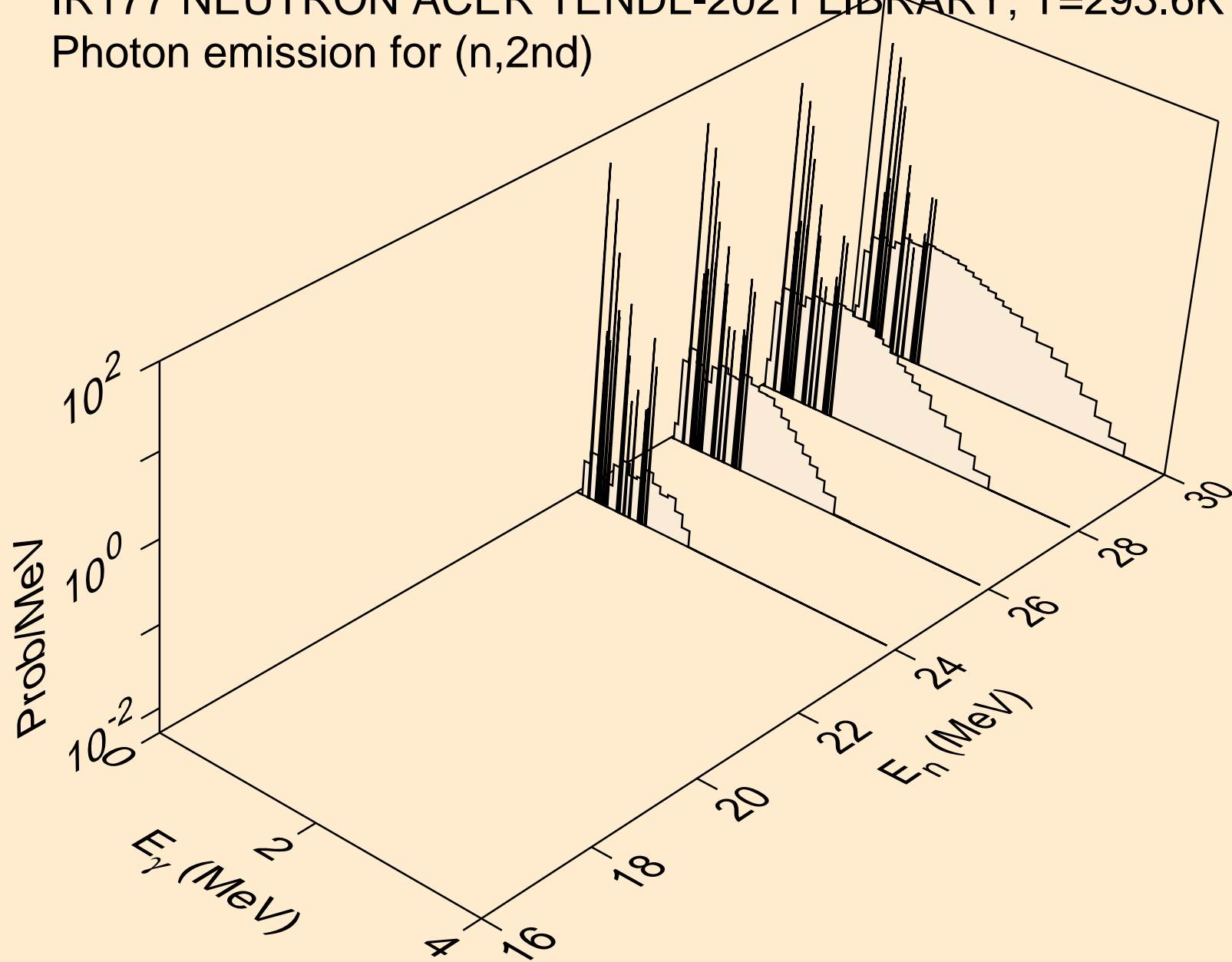
IR177 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,n\*c)



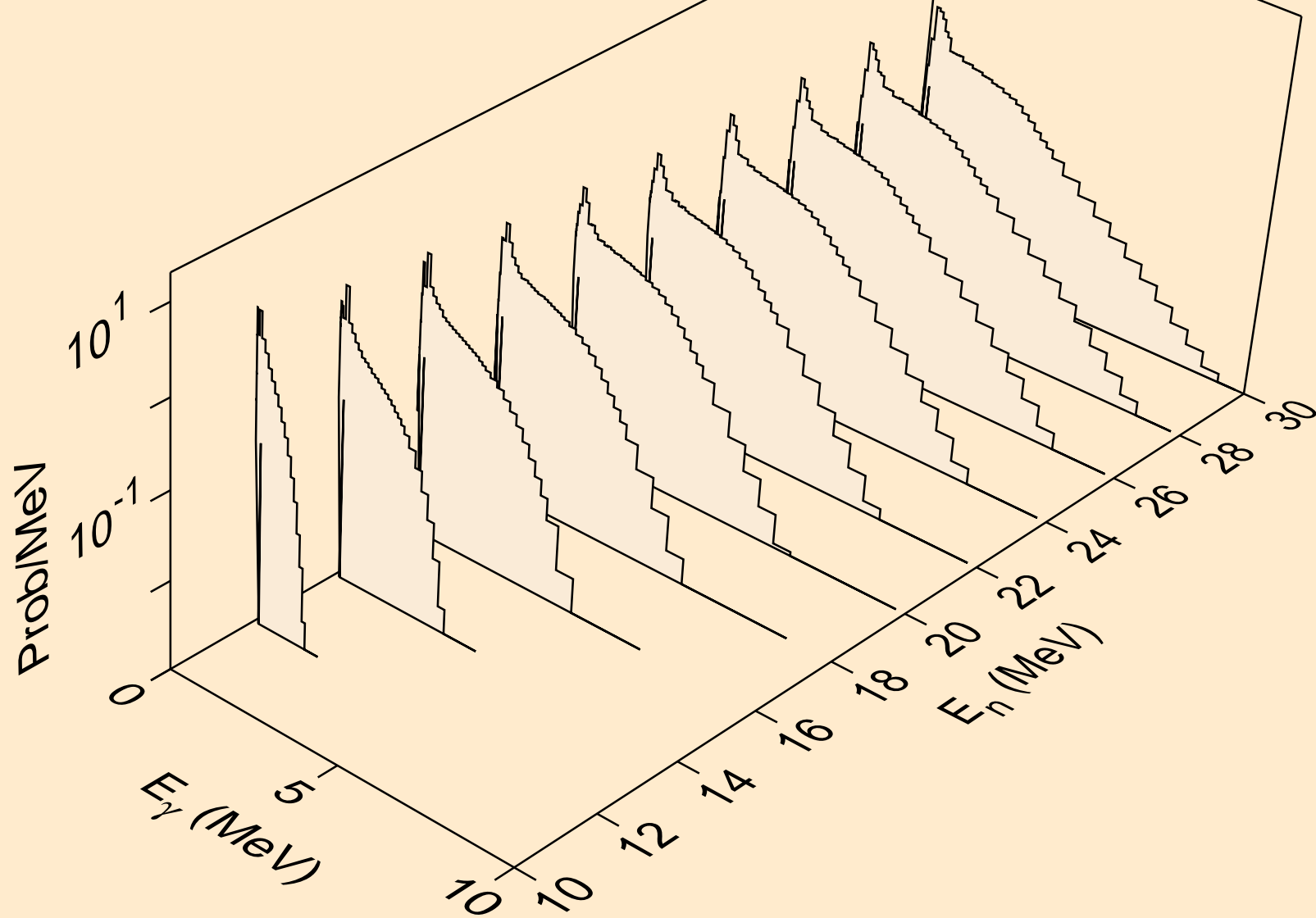
IR177 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,x)



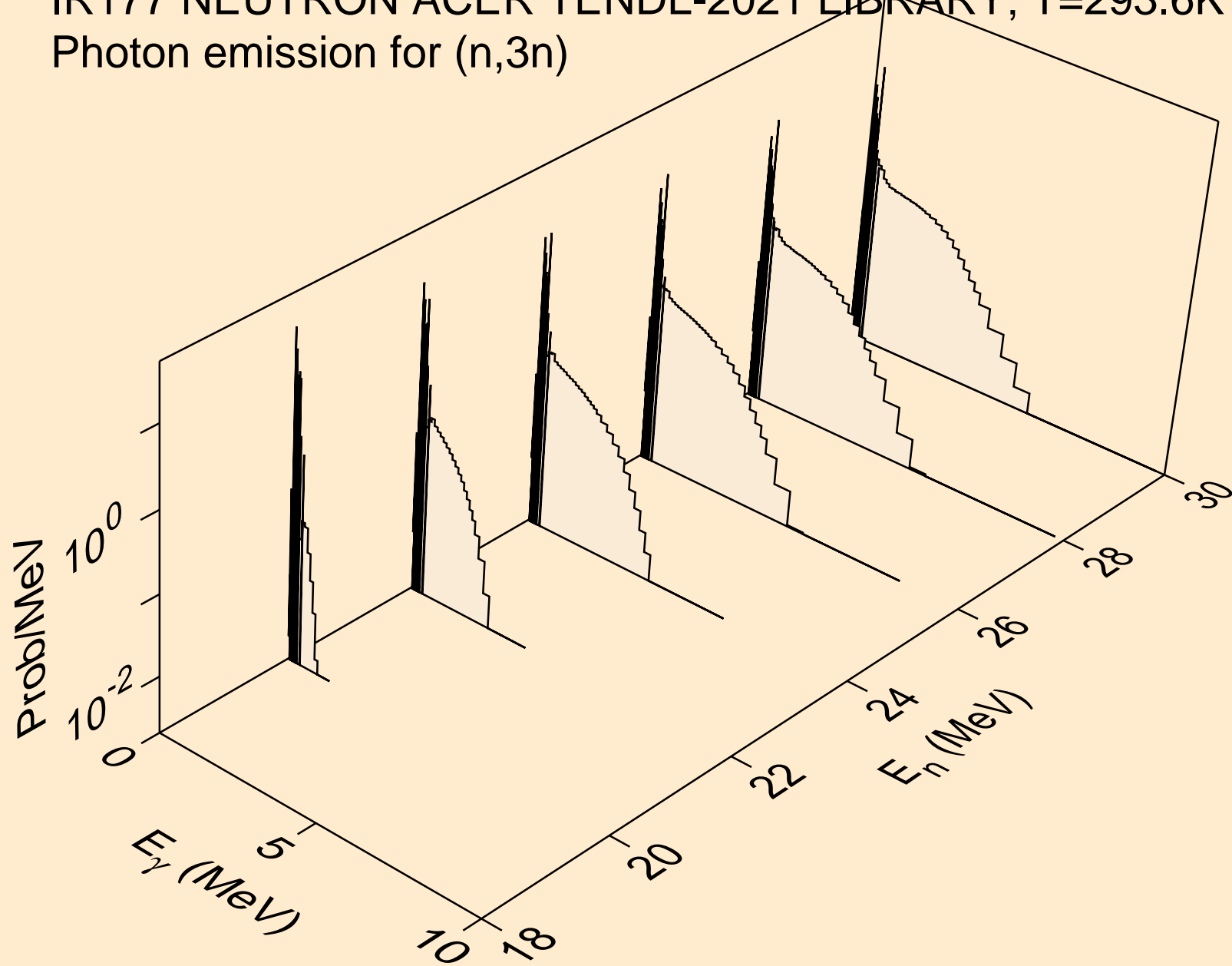
IR177 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,2nd)



IR177 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,2n)

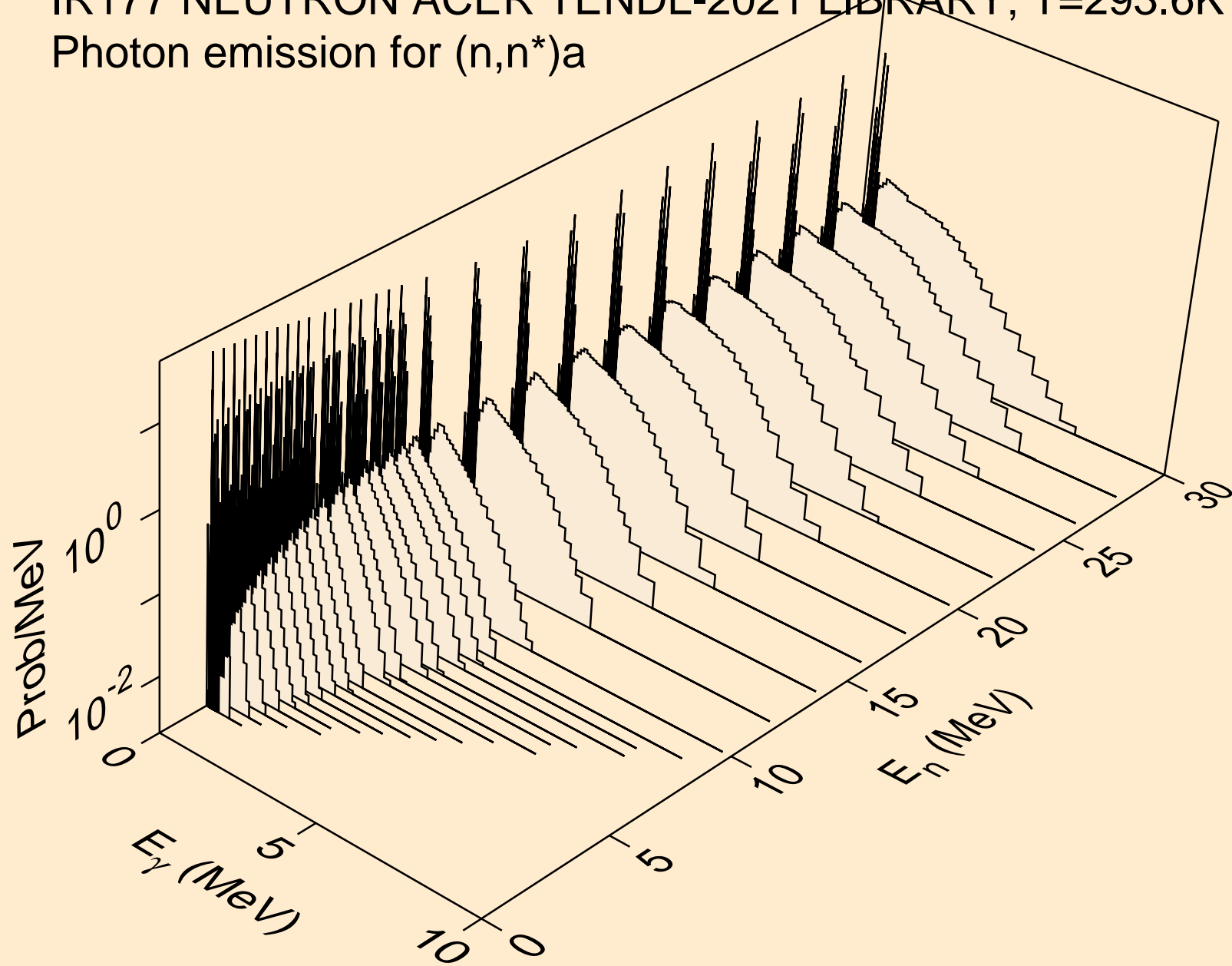


IR177 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,3n)

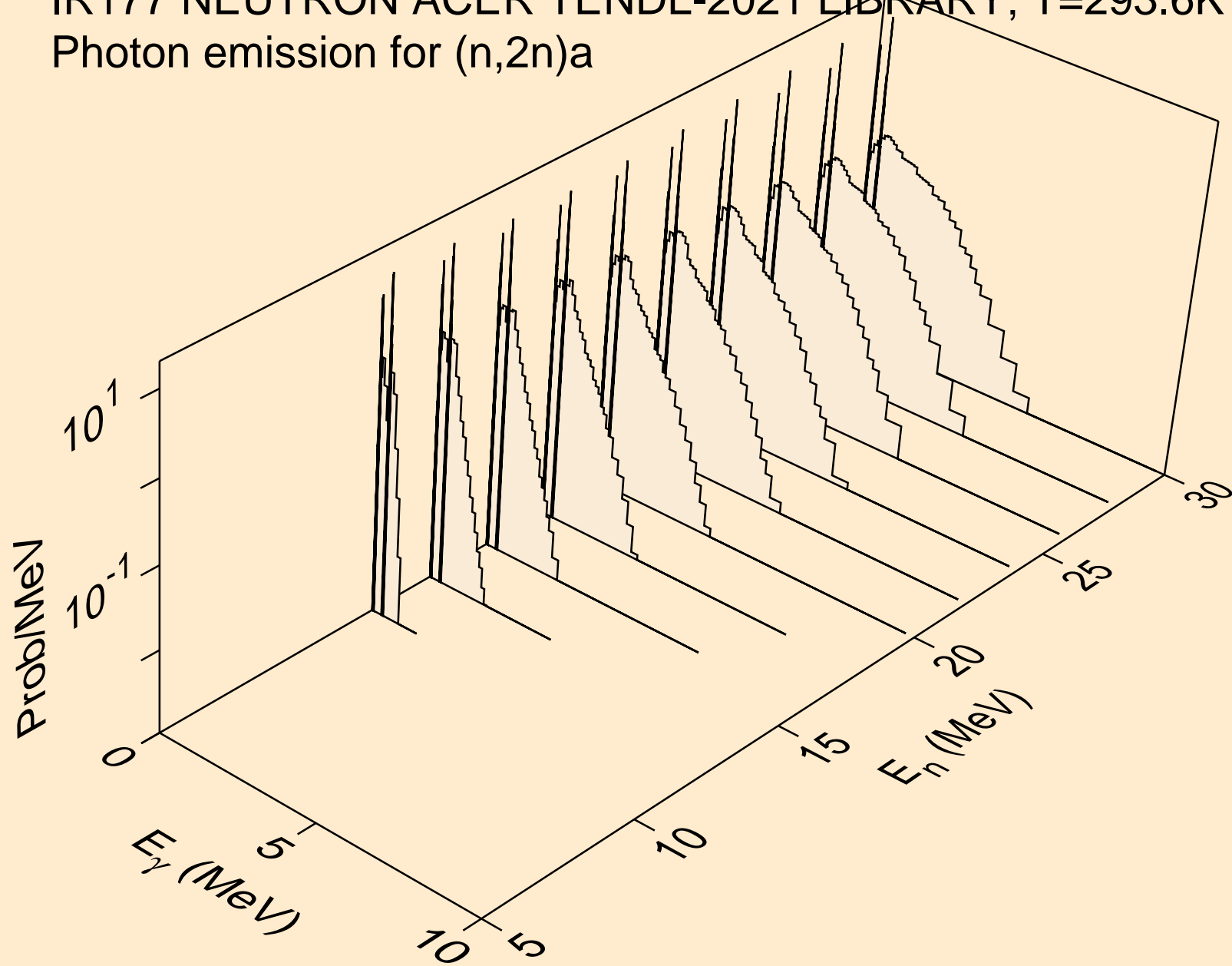




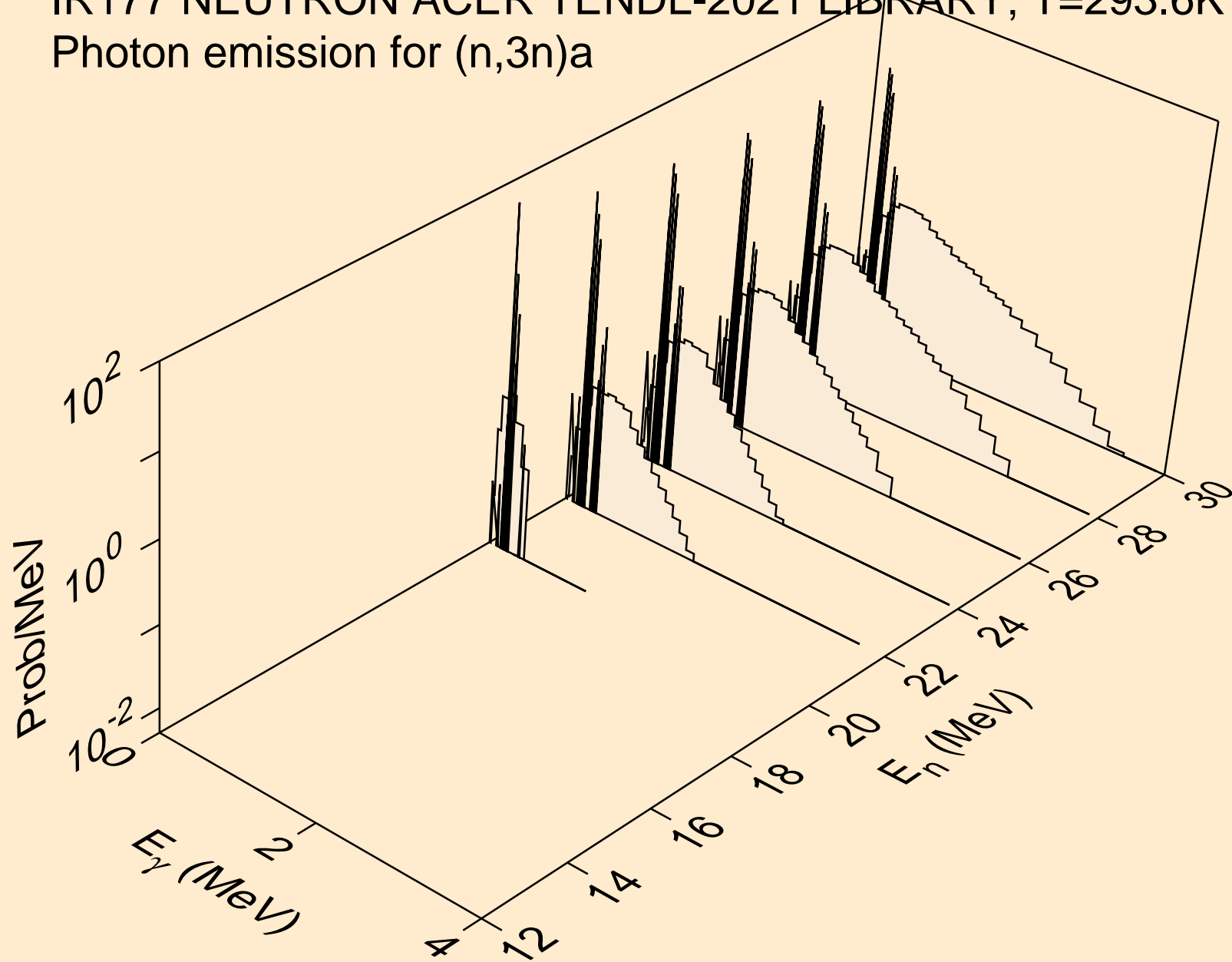
IR177 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,n\*)a



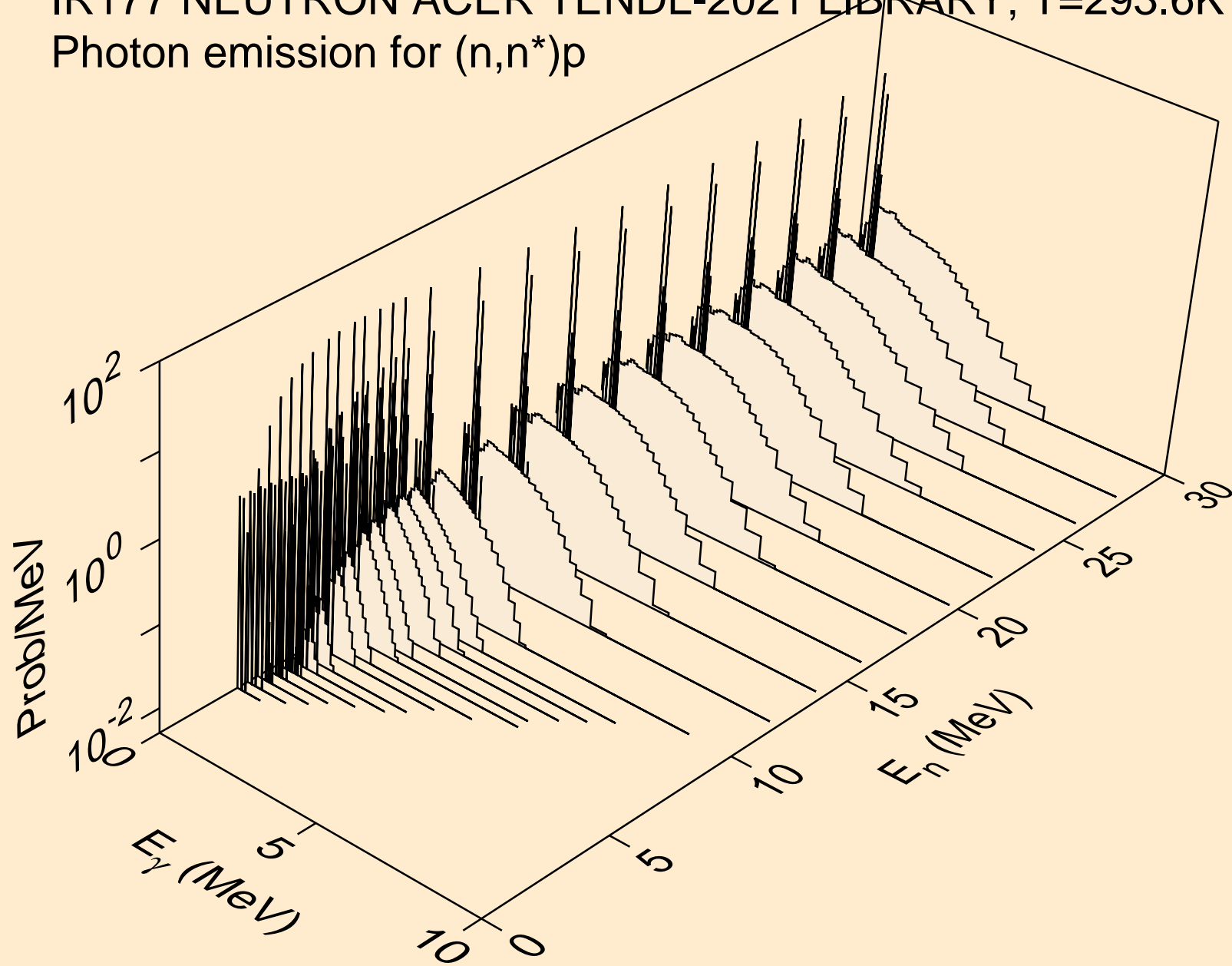
IR177 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,2n)a



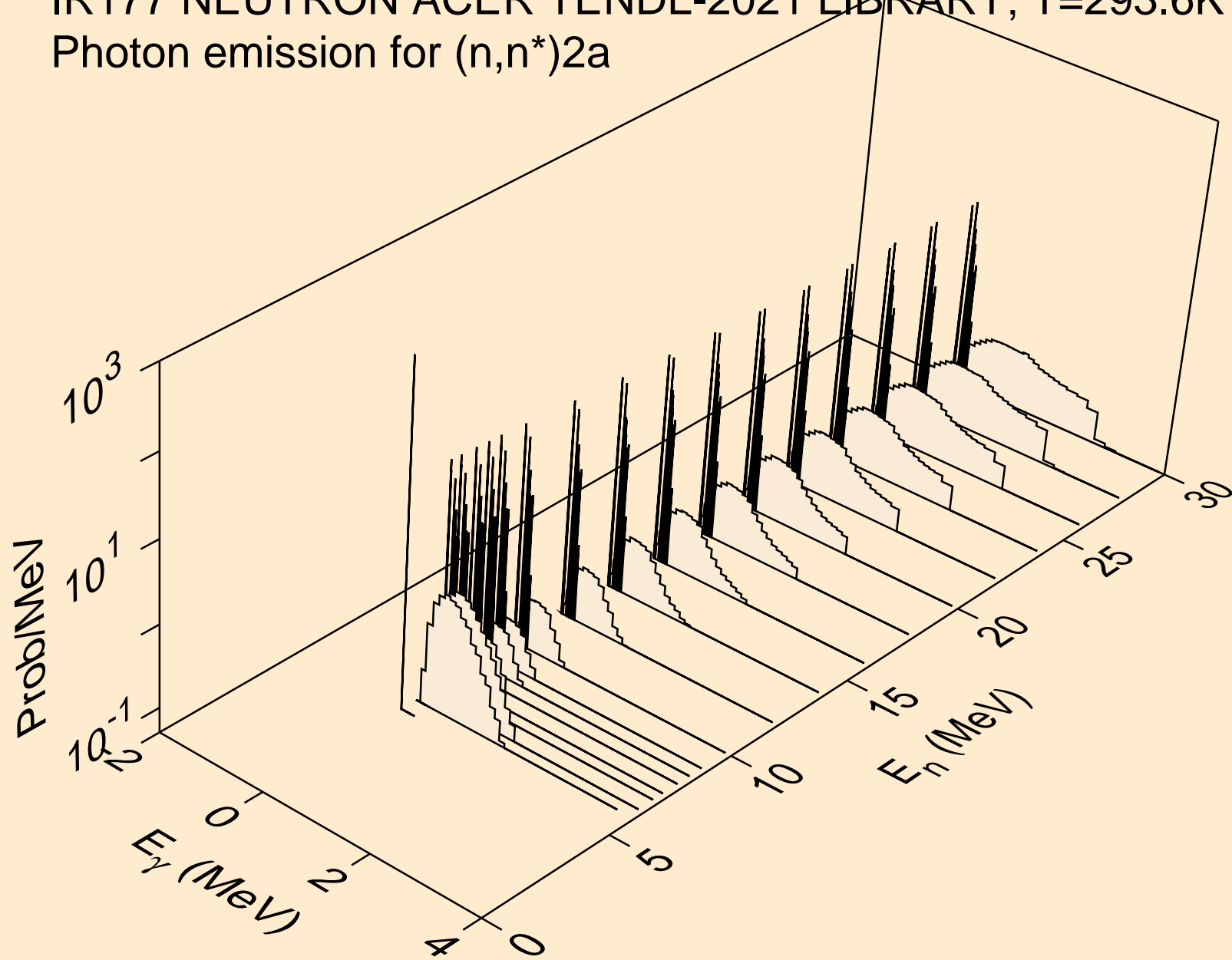
IR177 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,3n)a



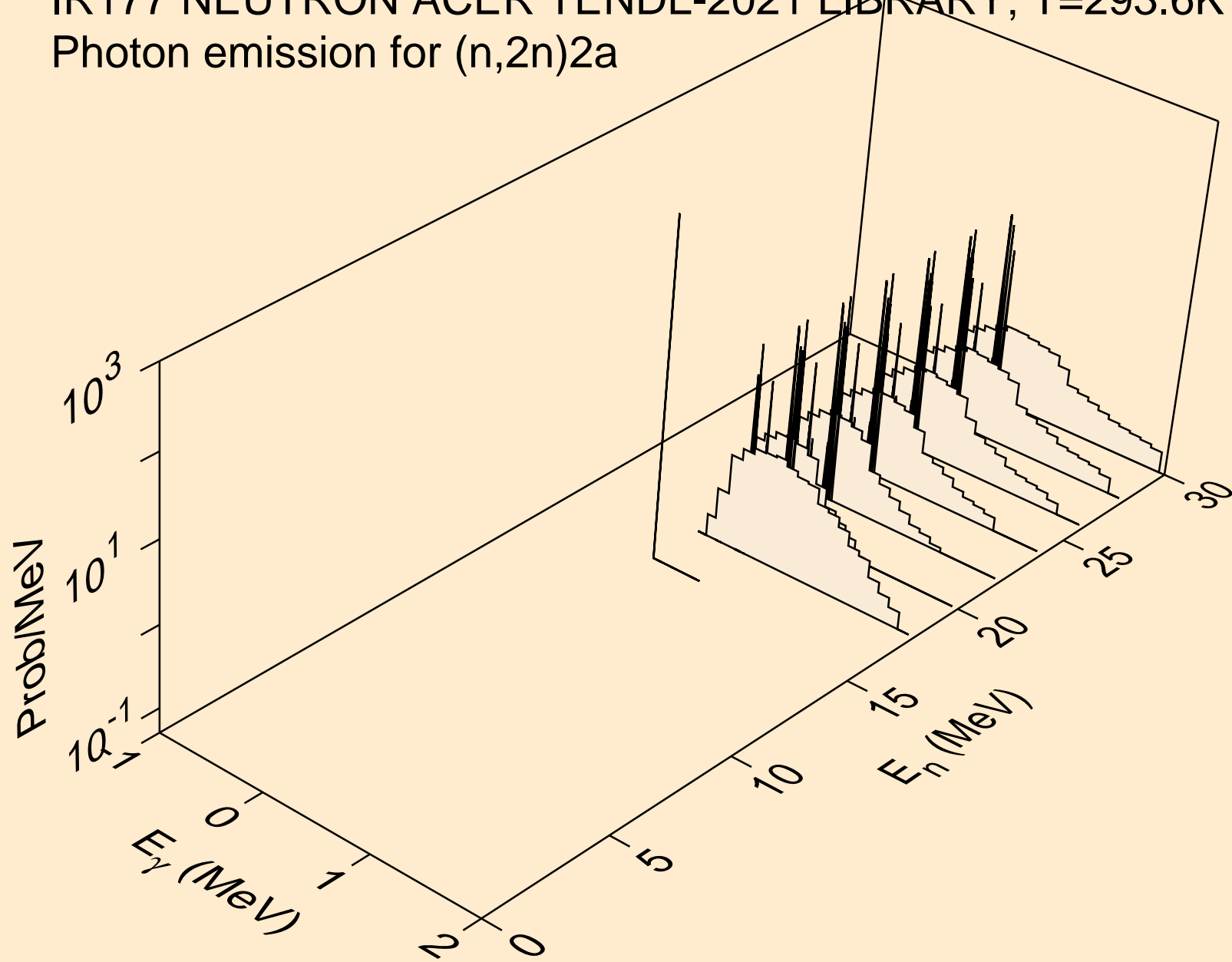
IR177 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,n\*)p



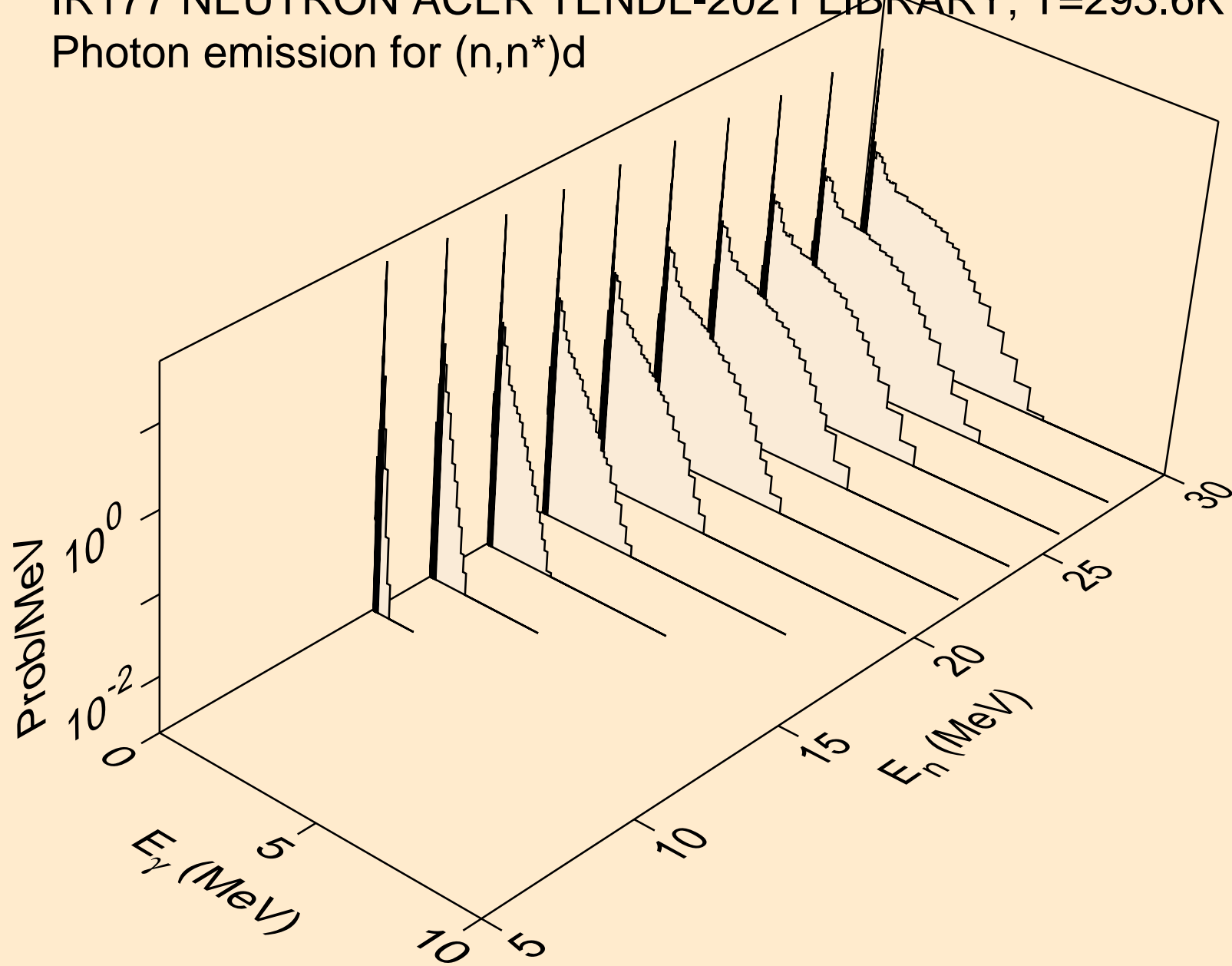
IR177 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,n\*)2a



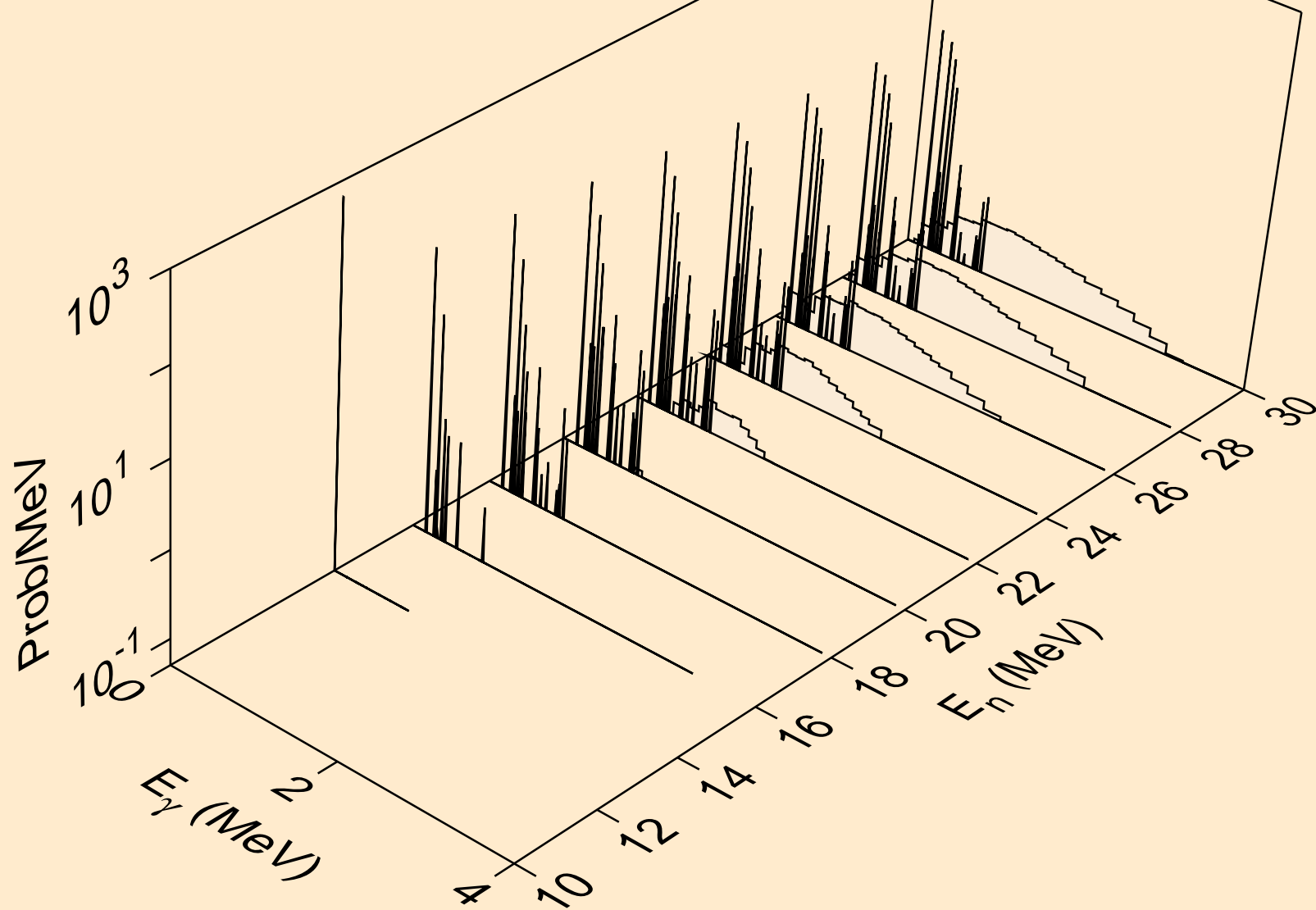
IR177 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,2n)2a



IR177 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,n\*)d

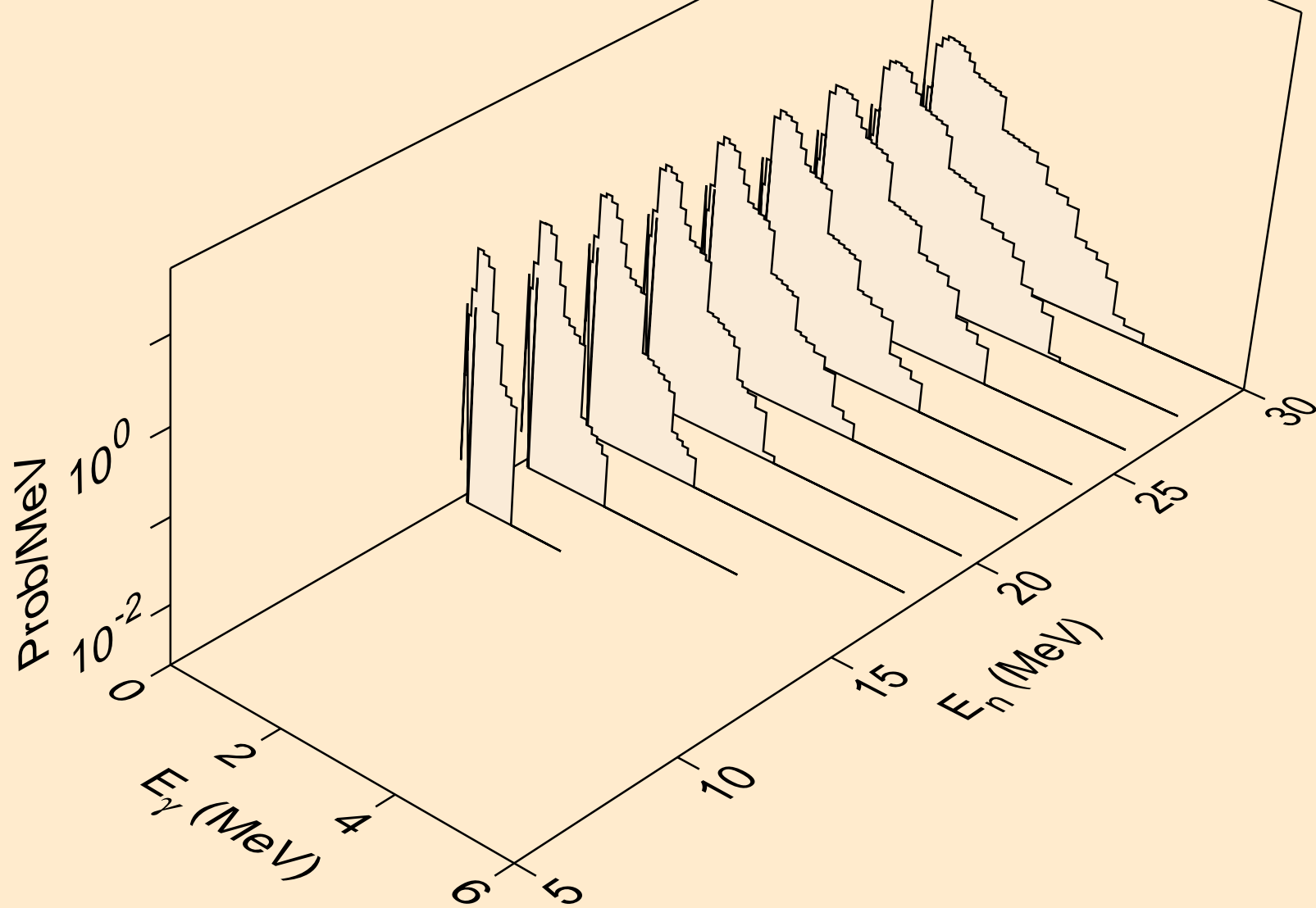


IR177 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,n\*)t

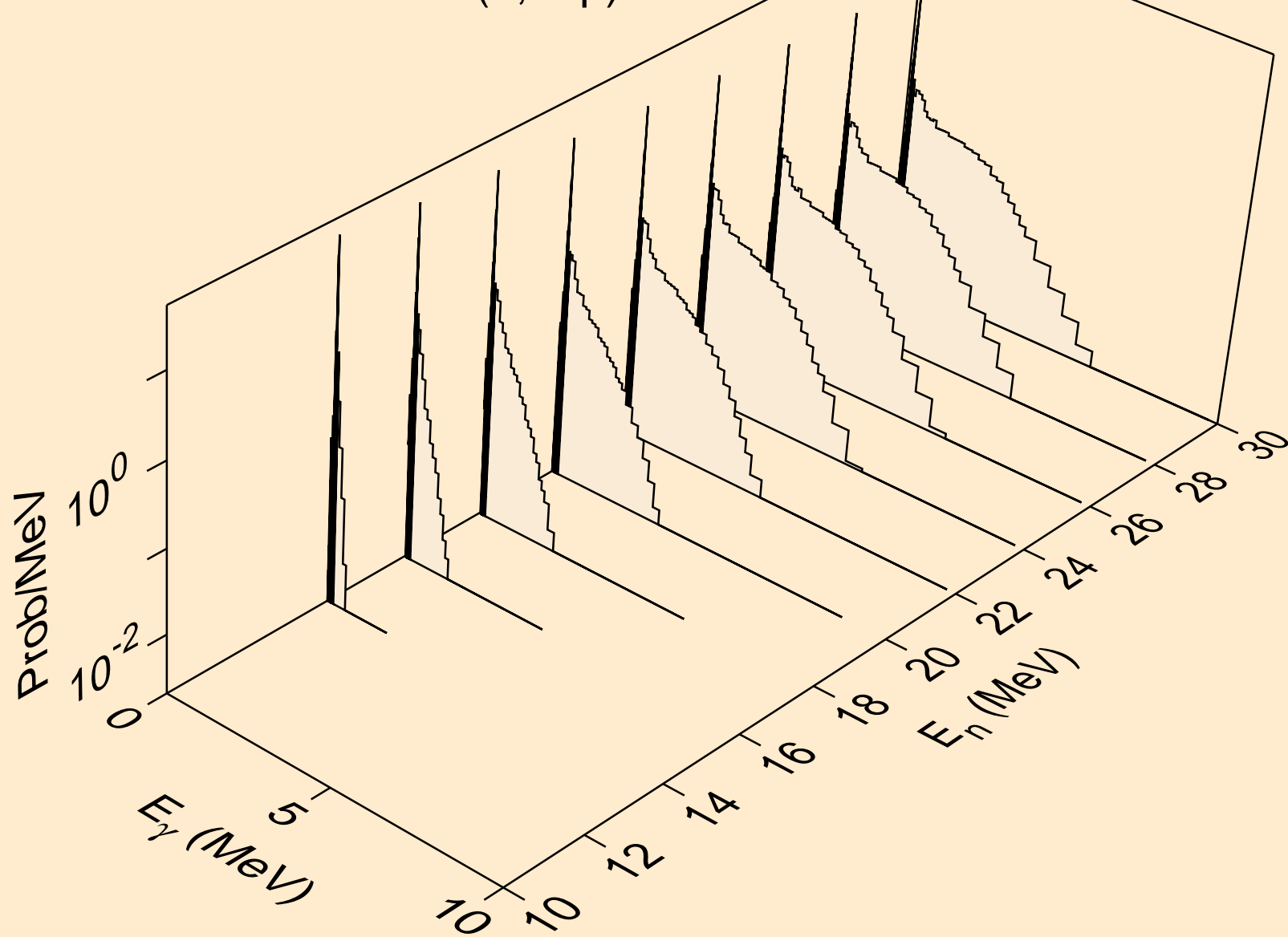




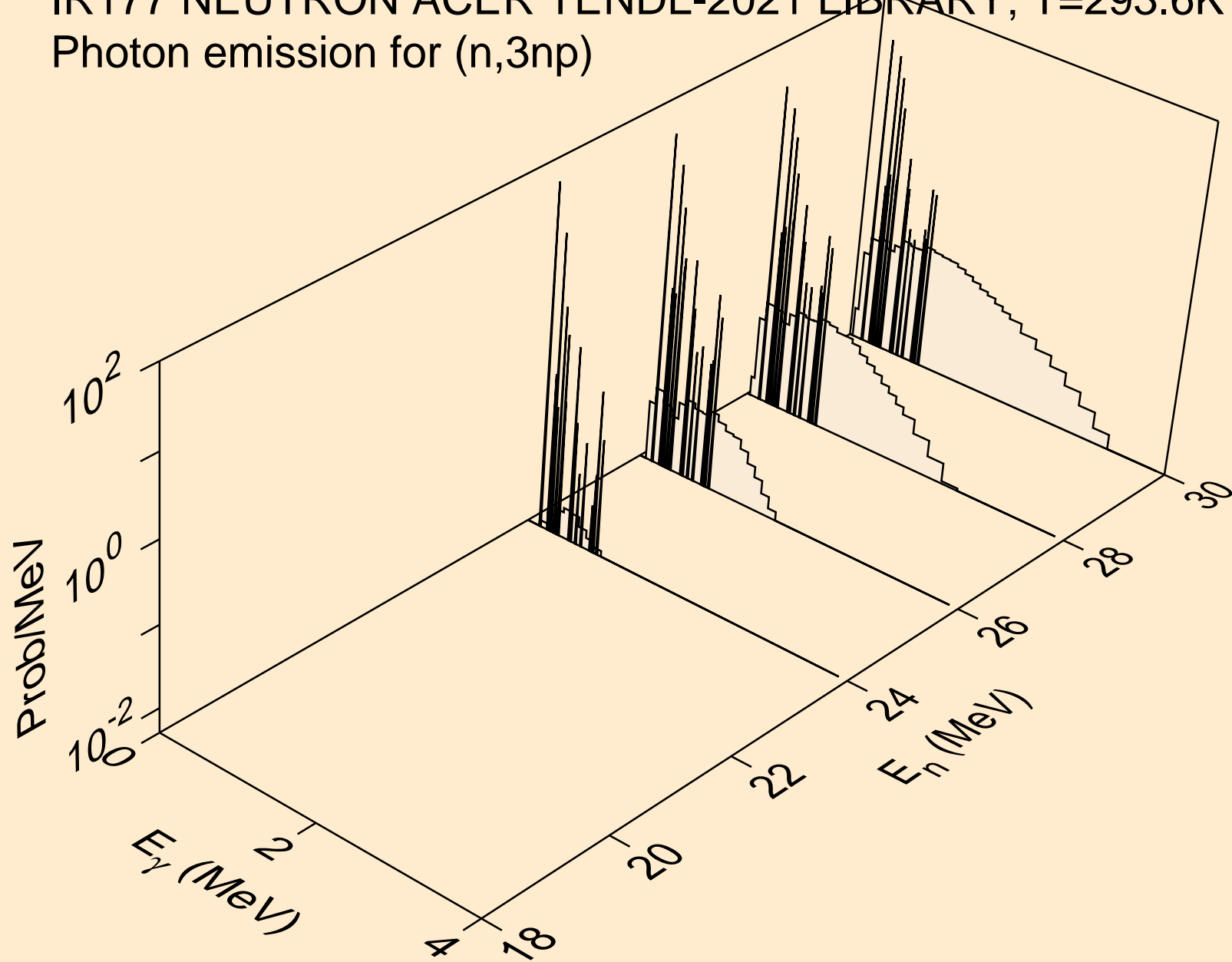
IR177 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,n\*)he3



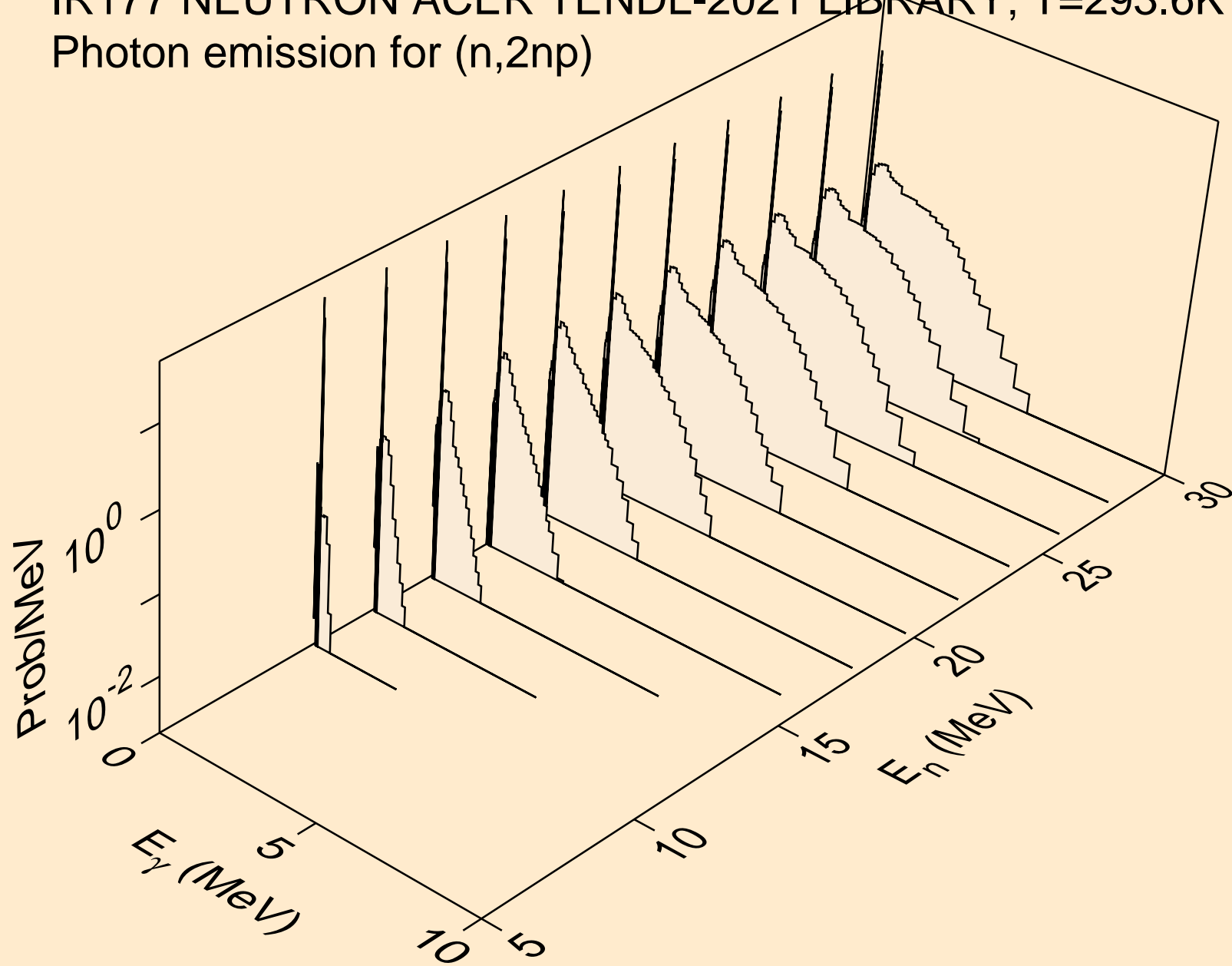
IR177 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,2np)



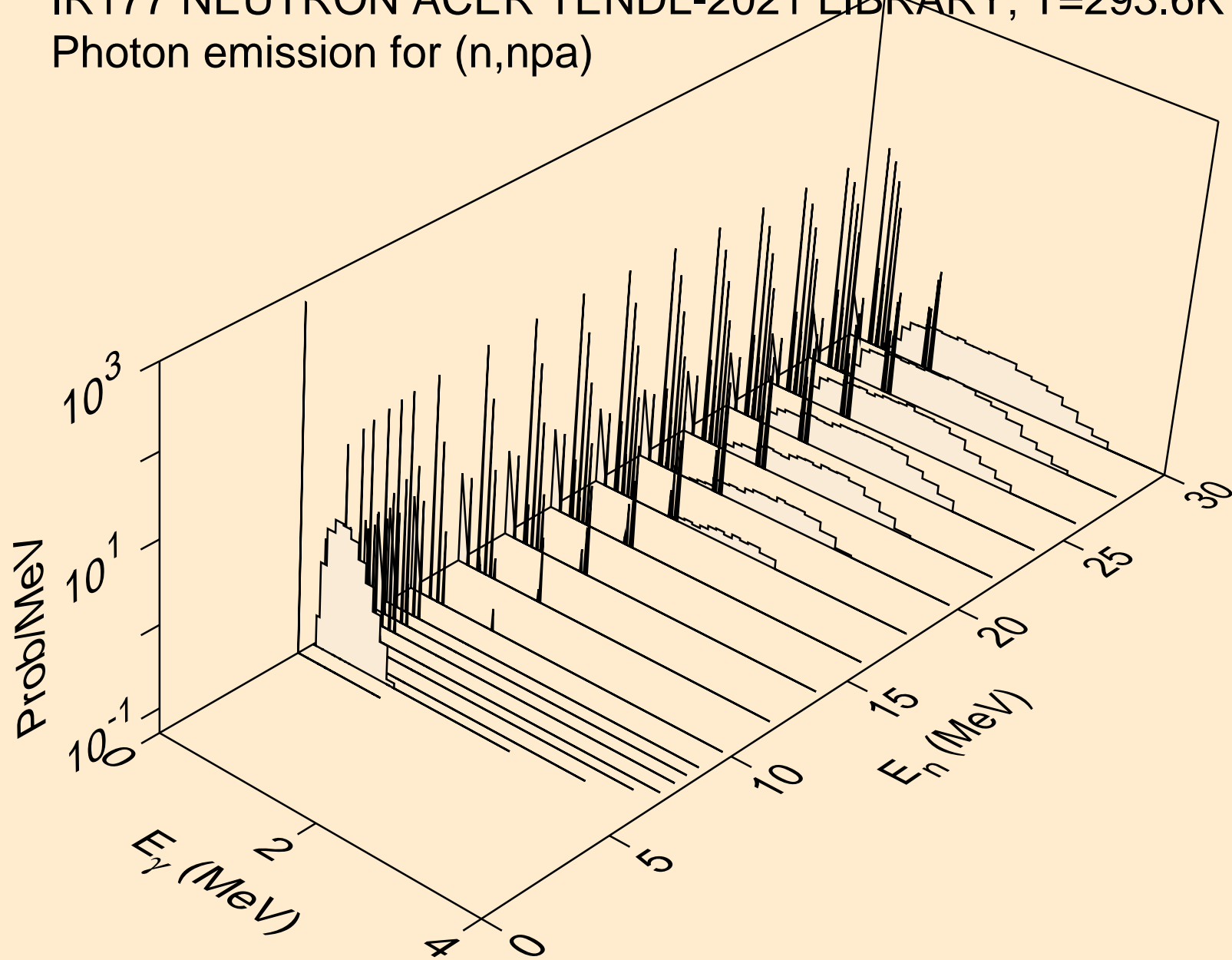
IR177 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,3np)



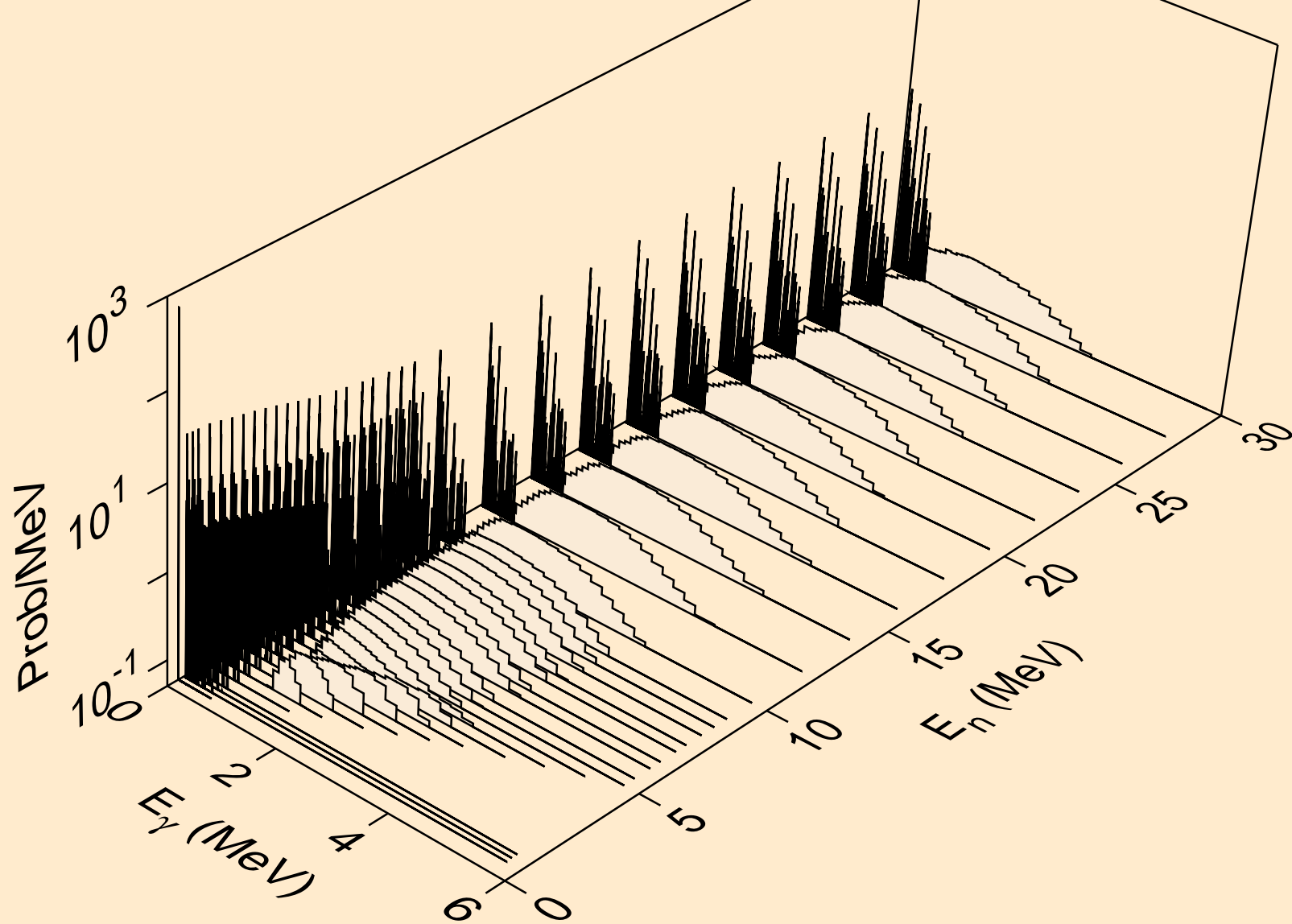
IR177 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,2np)



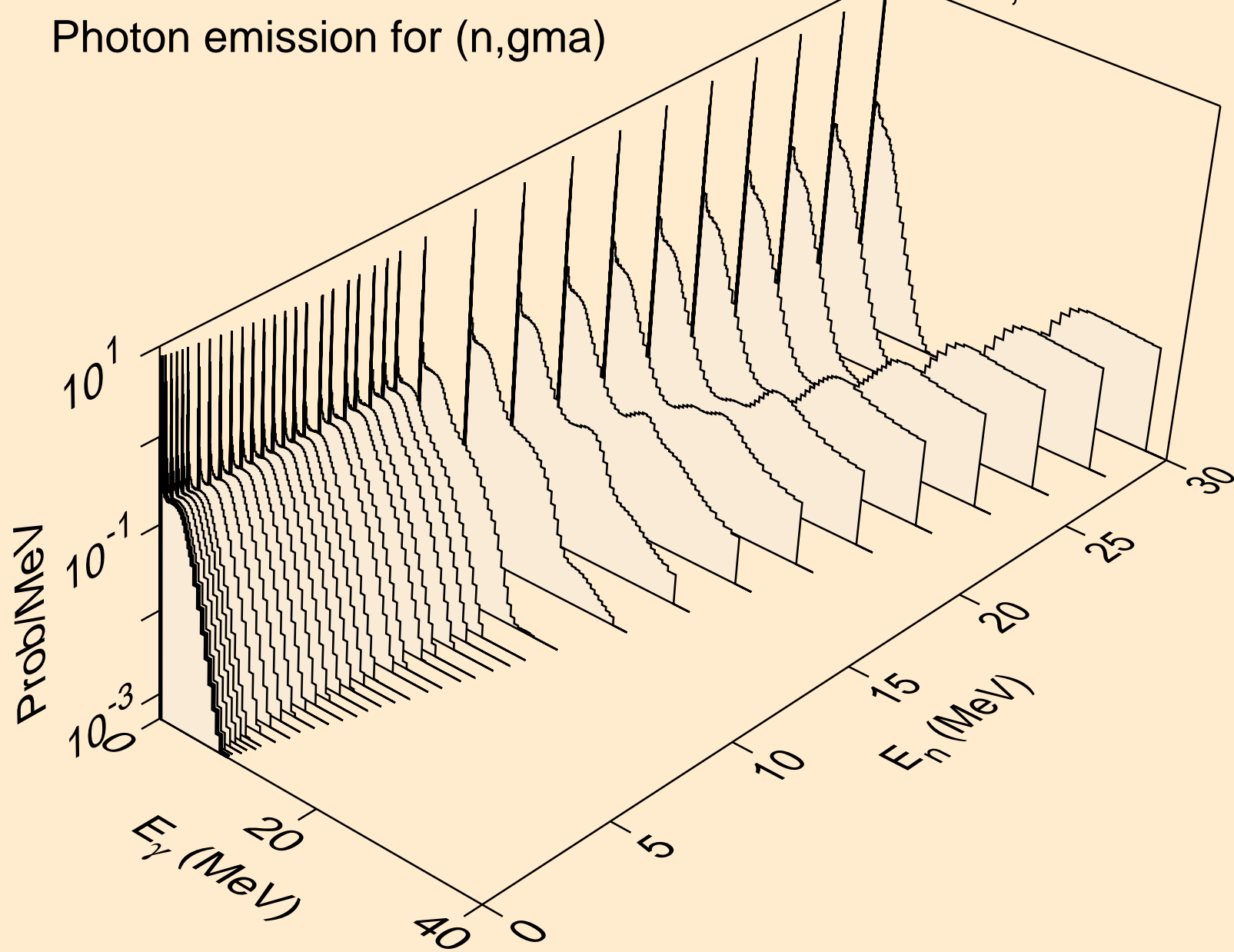
IR177 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,npa)



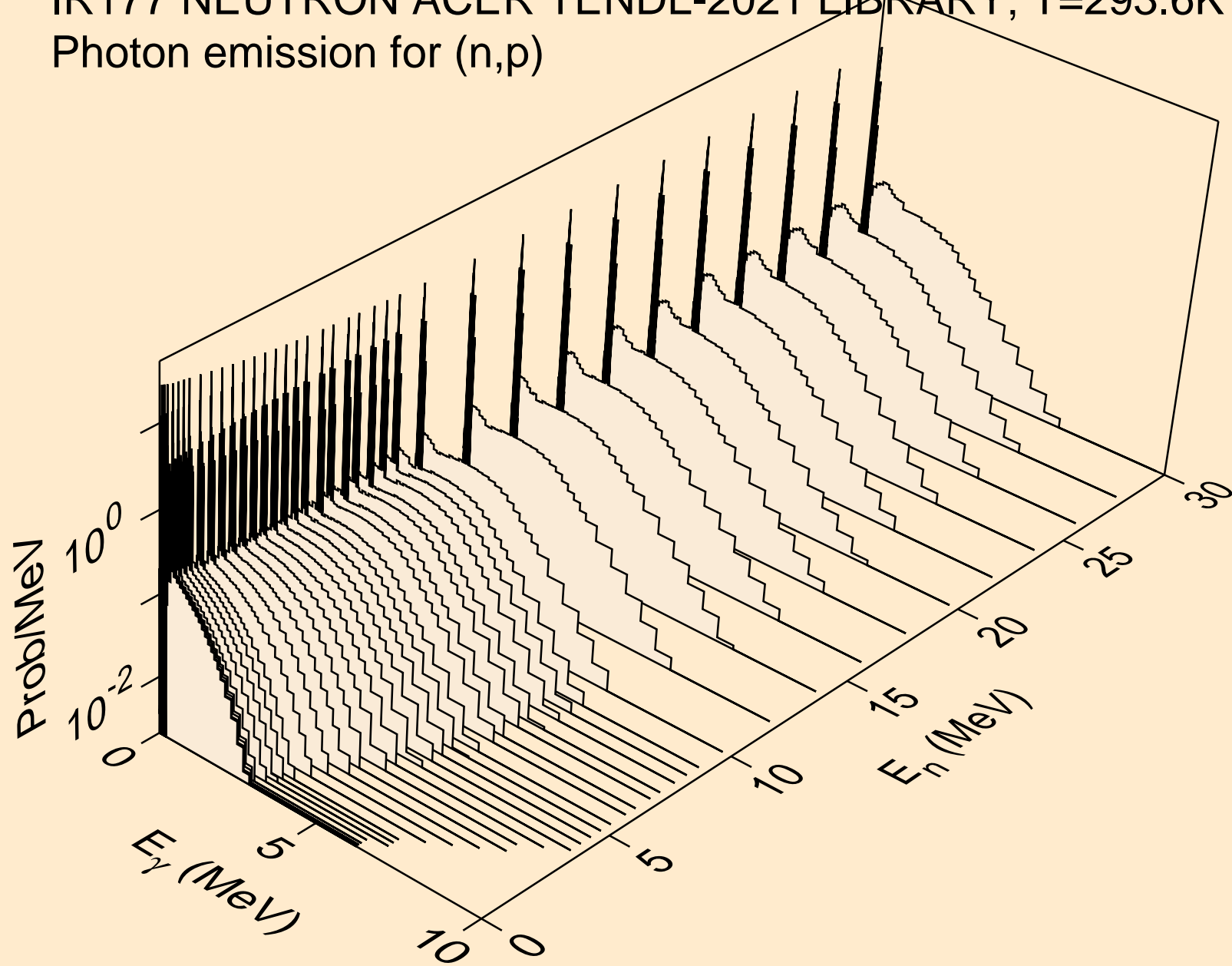
IR177 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,n\*c)



IR177 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,gma)

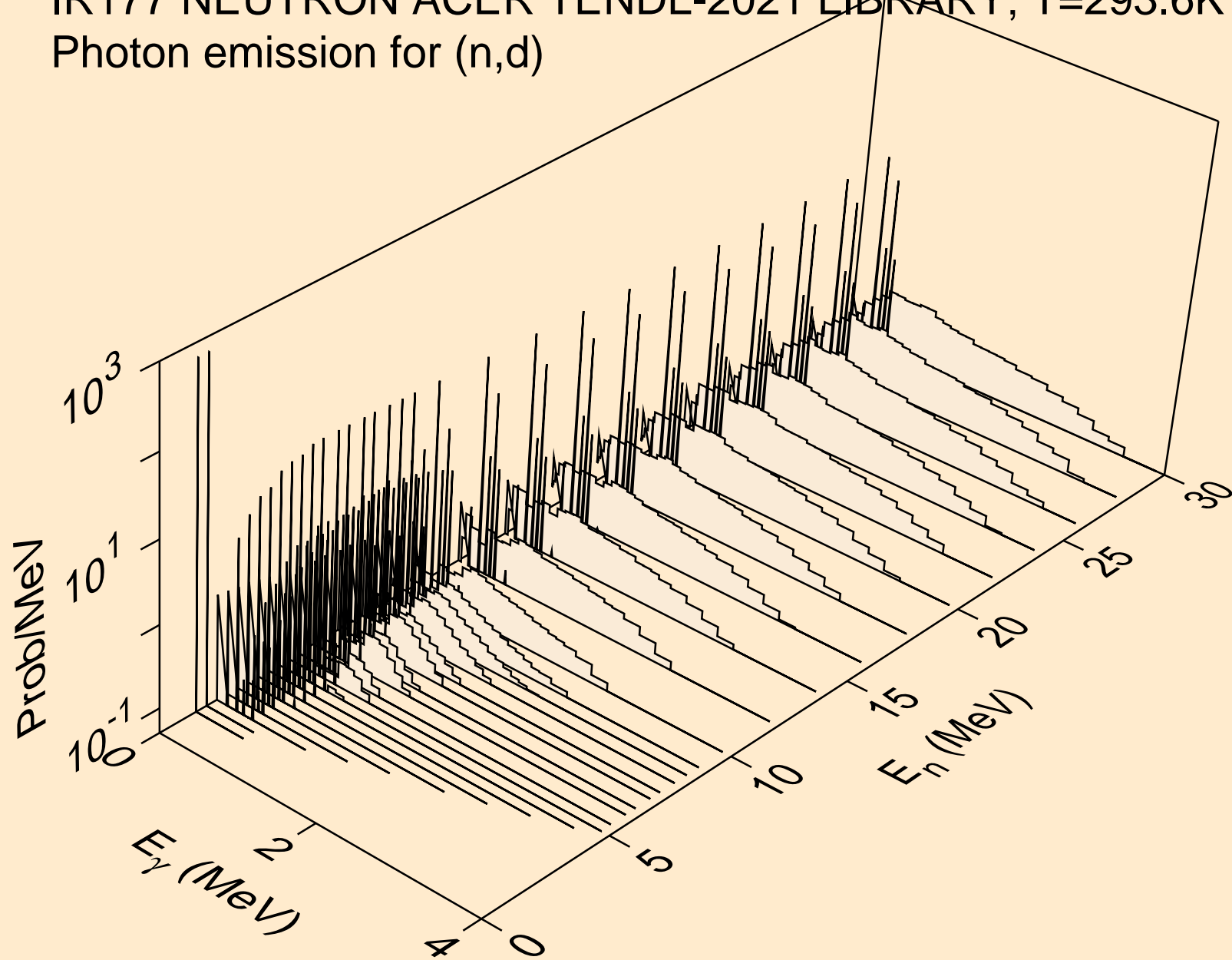


IR177 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,p)

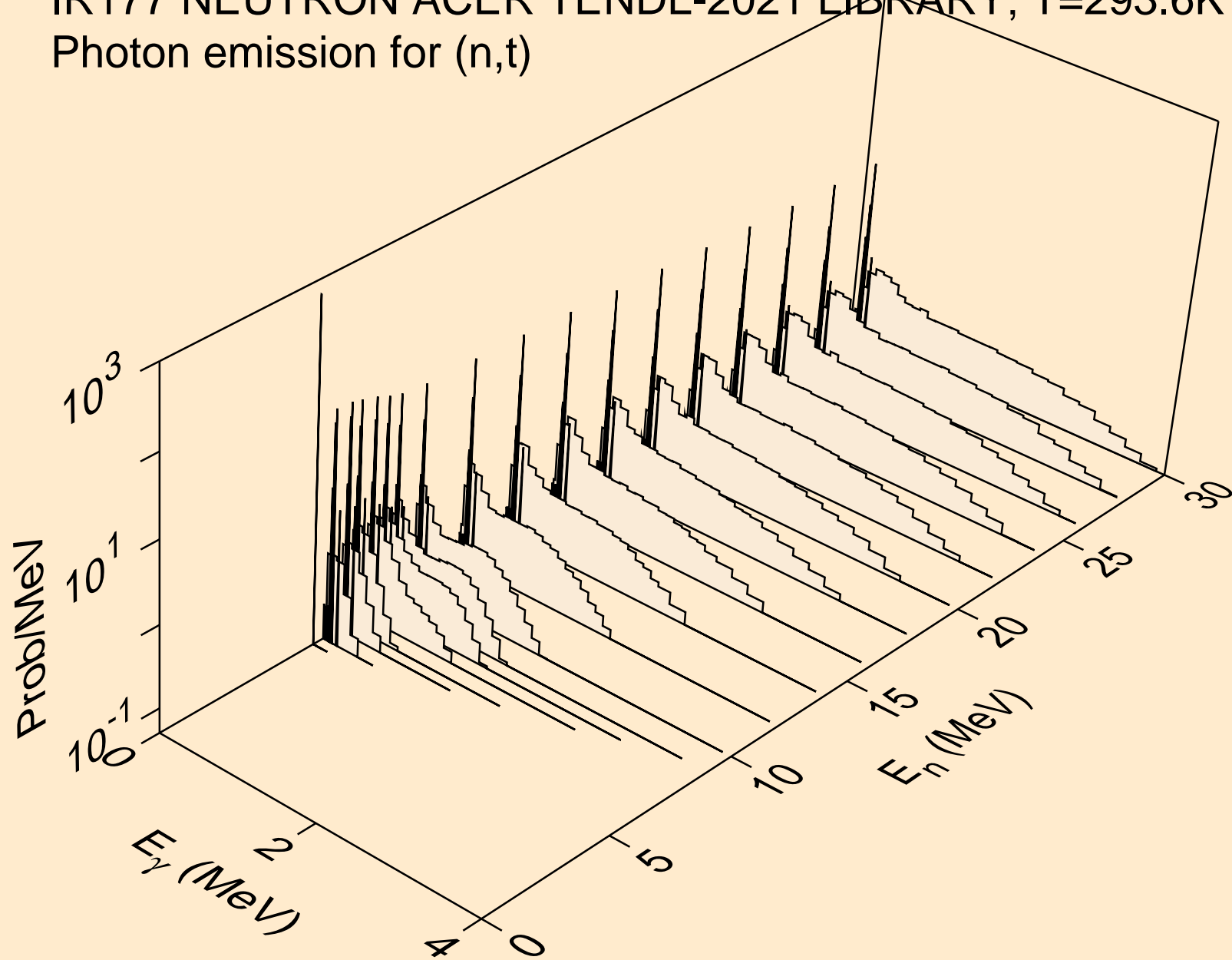




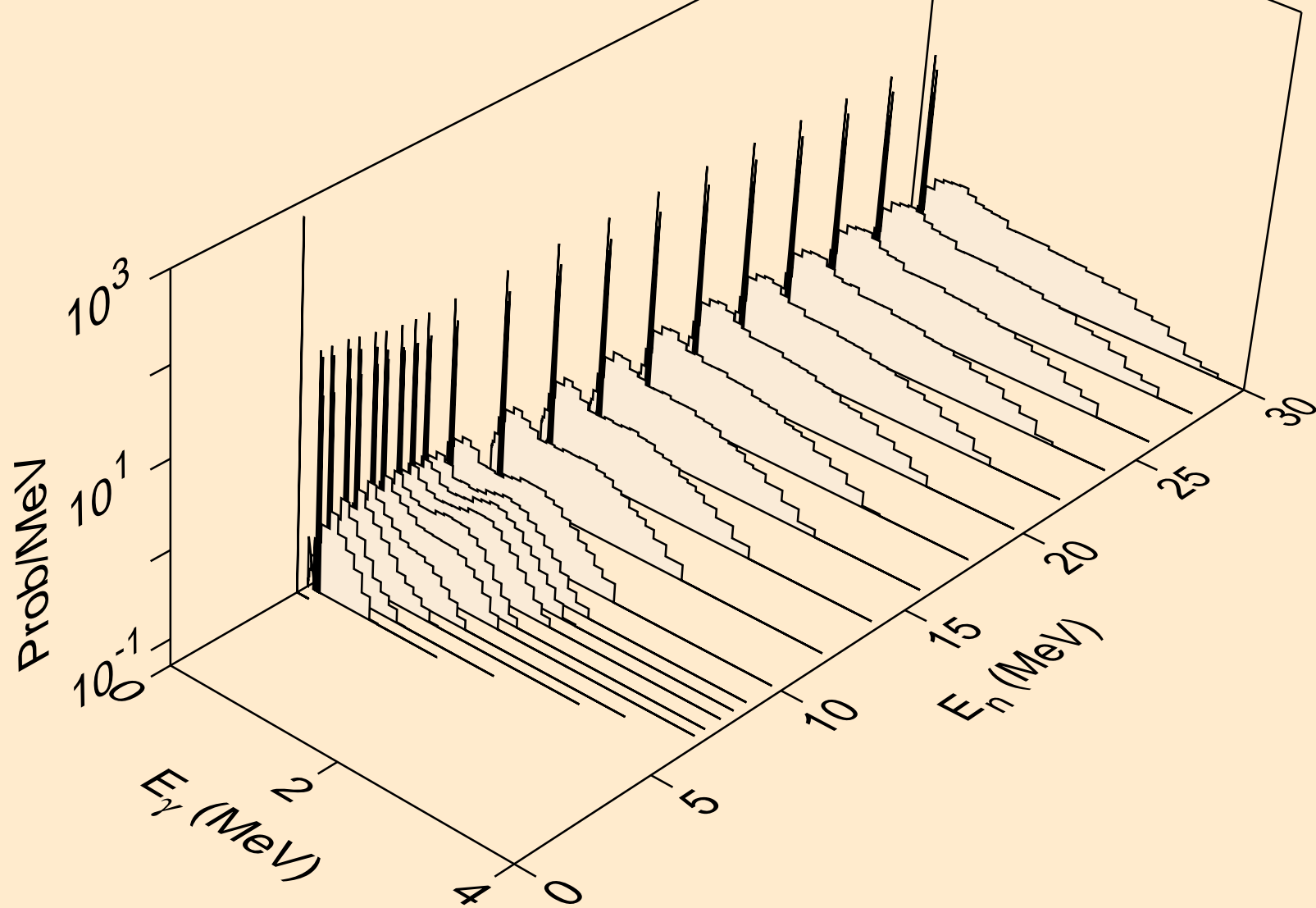
IR177 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,d)



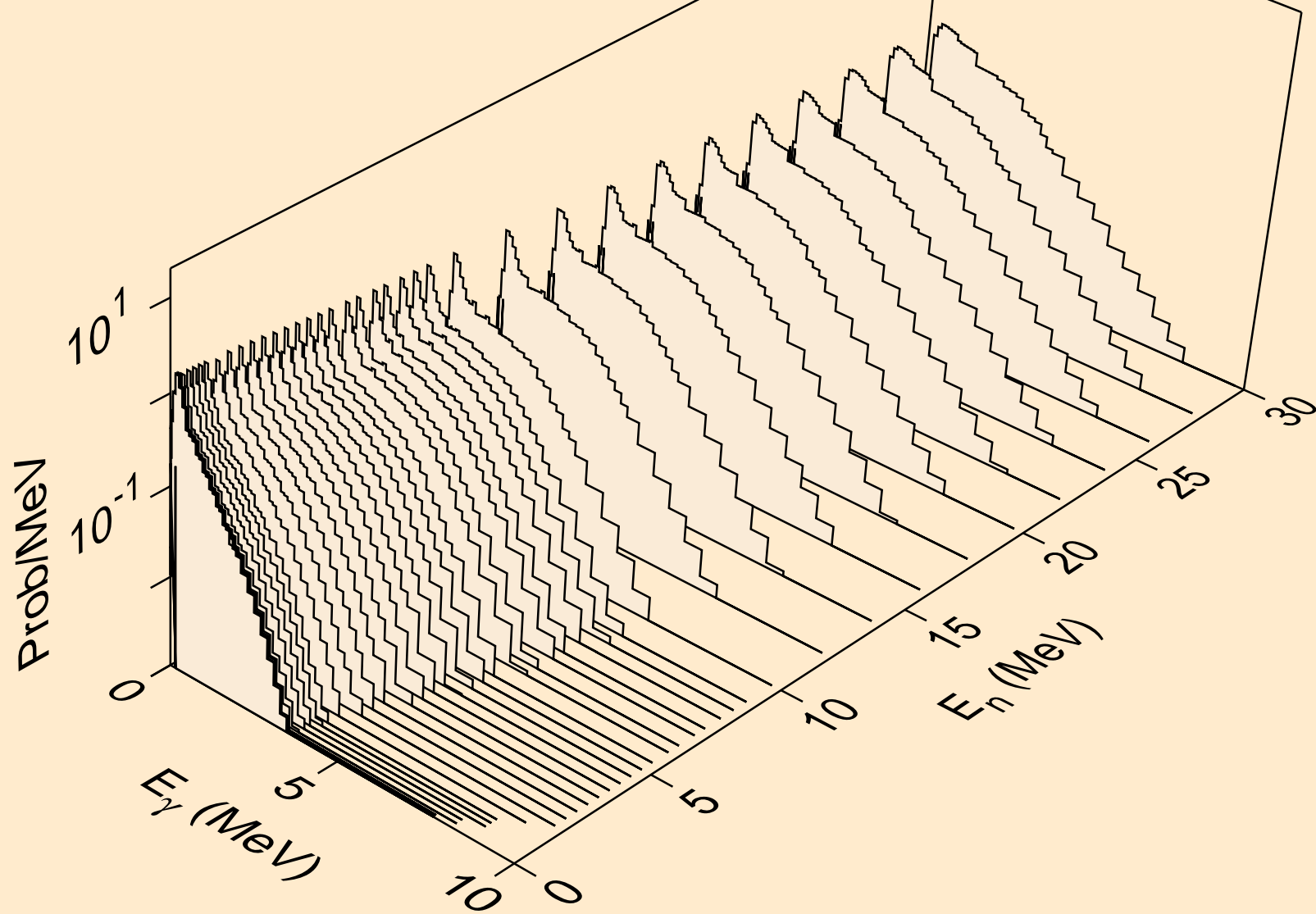
IR177 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,t)



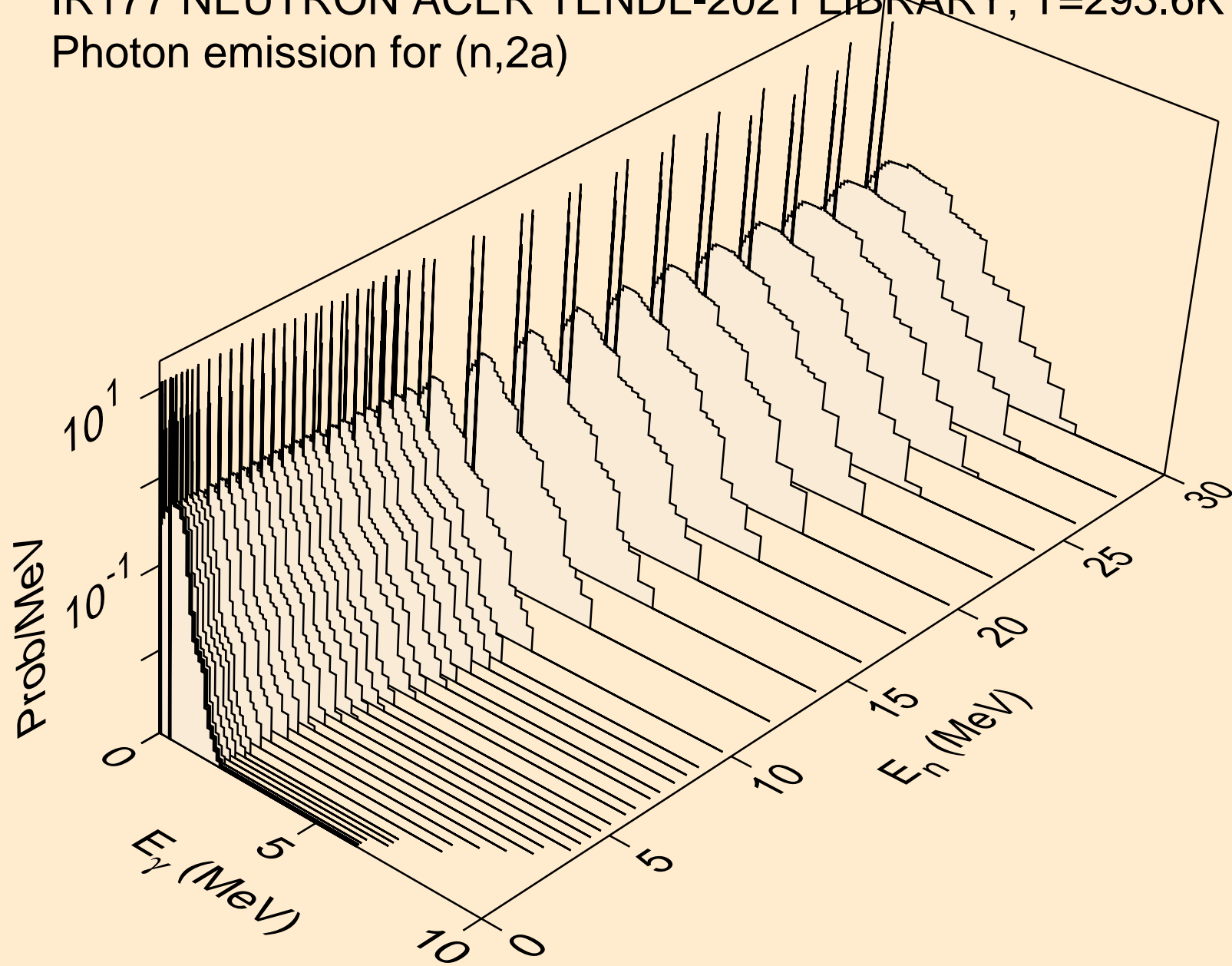
IR177 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,he3)



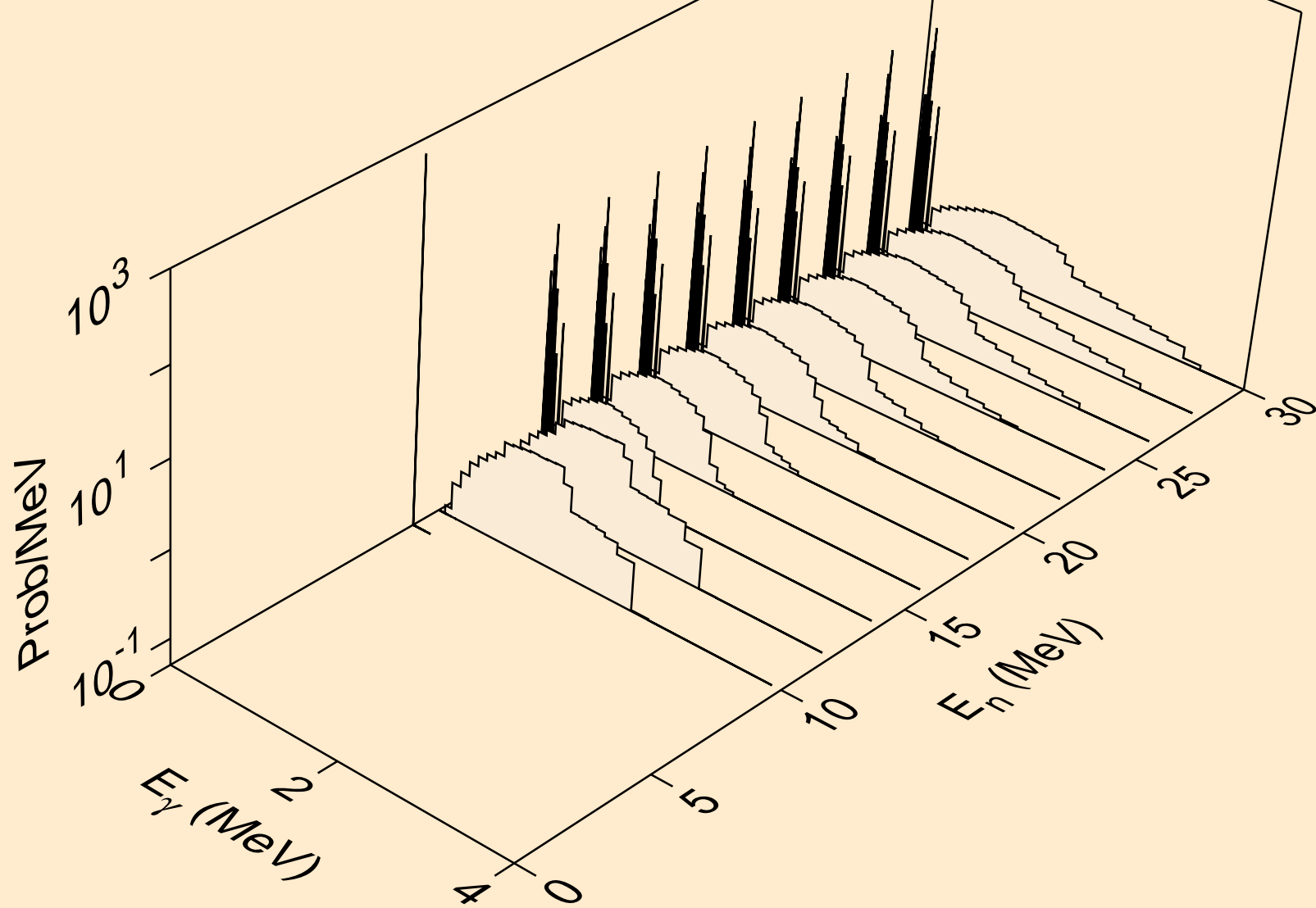
IR177 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,a)



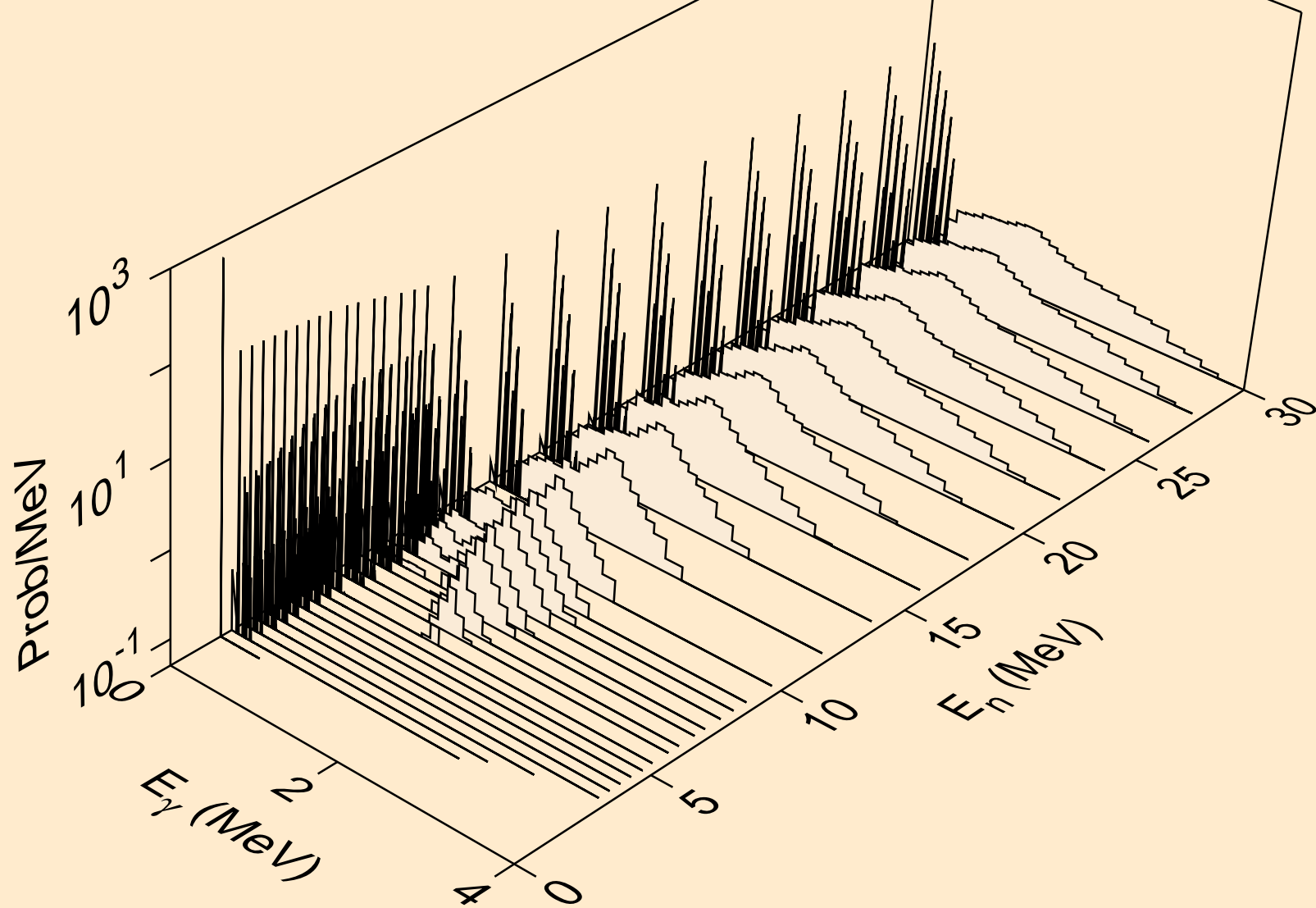
IR177 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,2a)



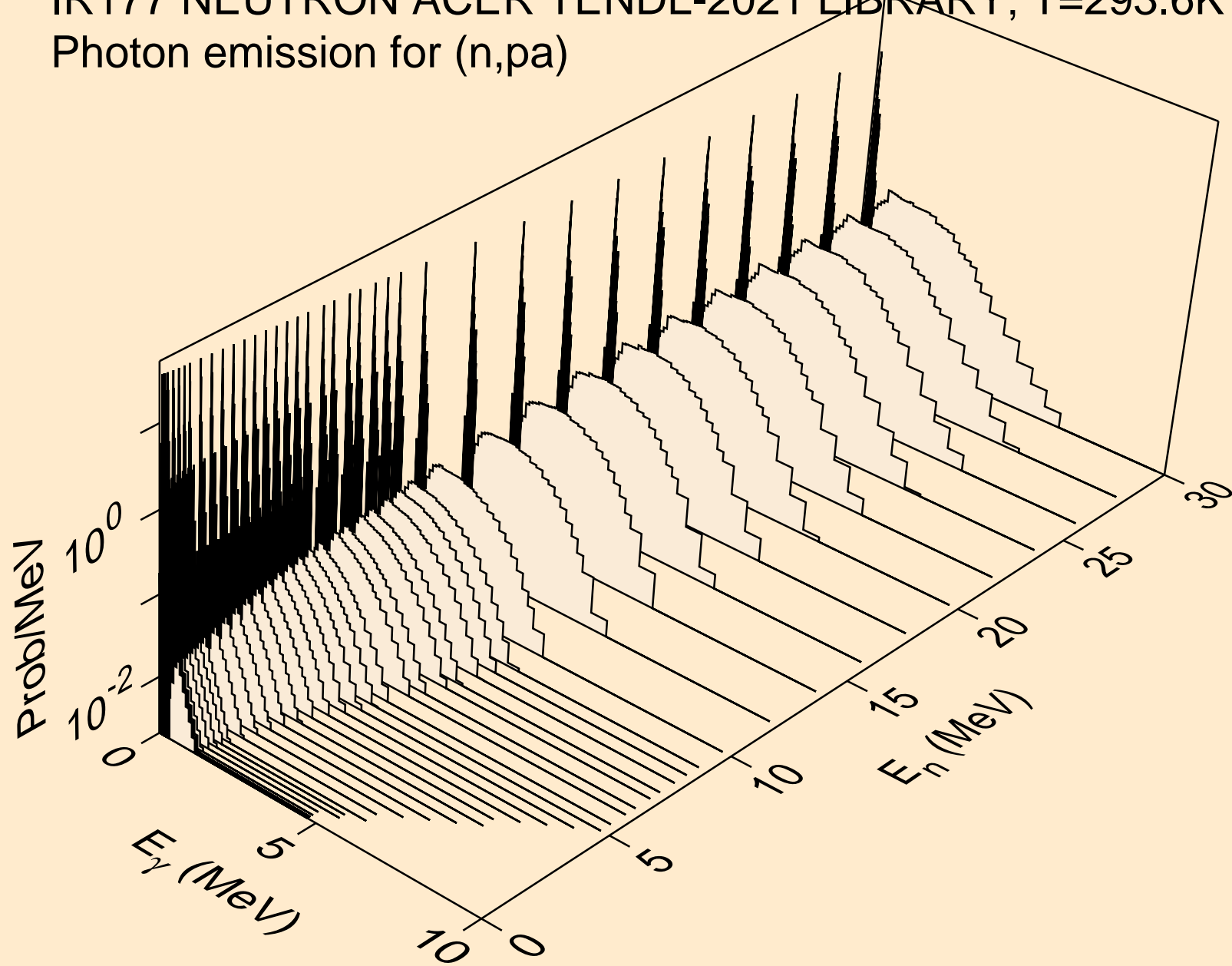
IR177 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,3a)



IR177 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,2p)

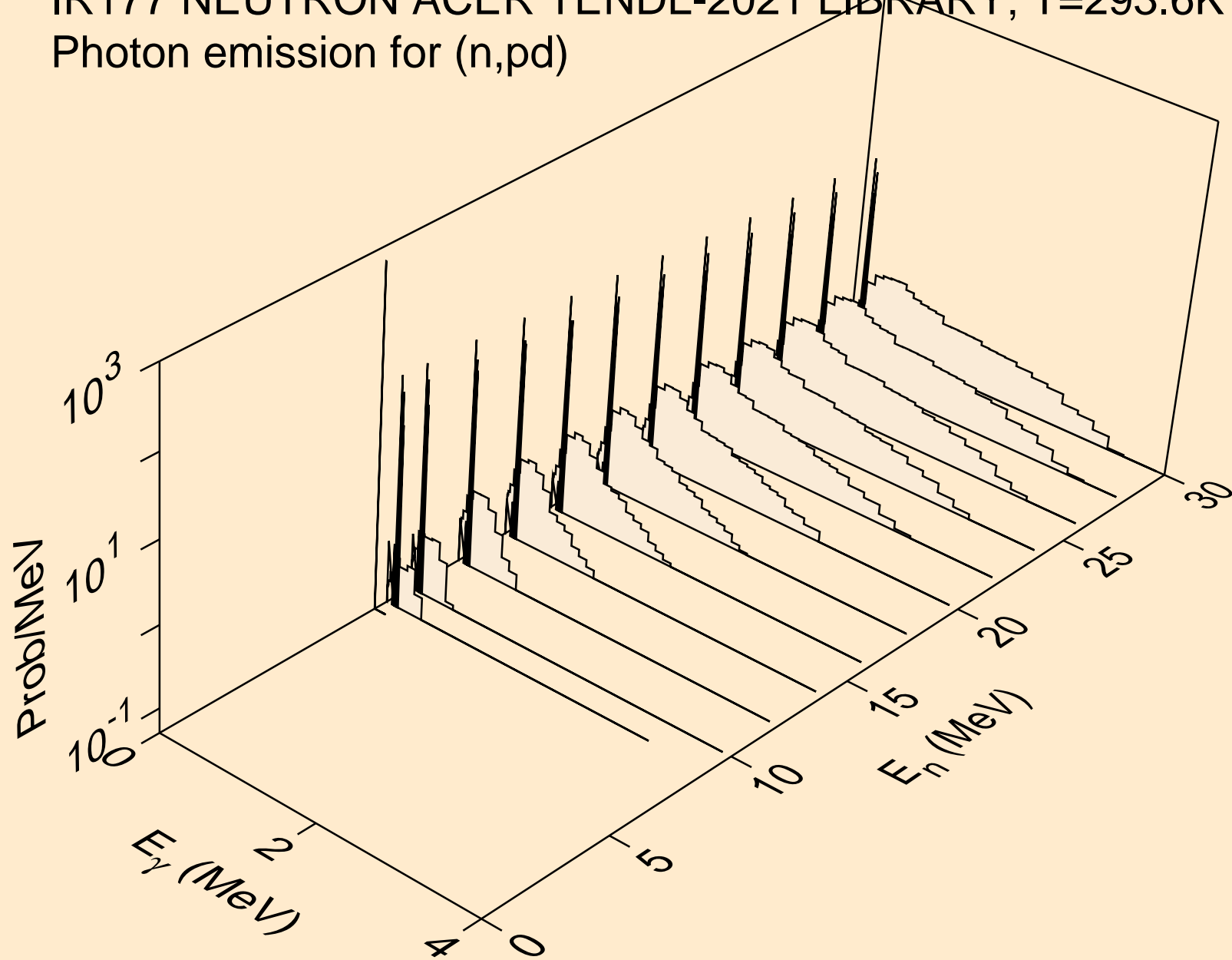


IR177 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,p $\alpha$ )

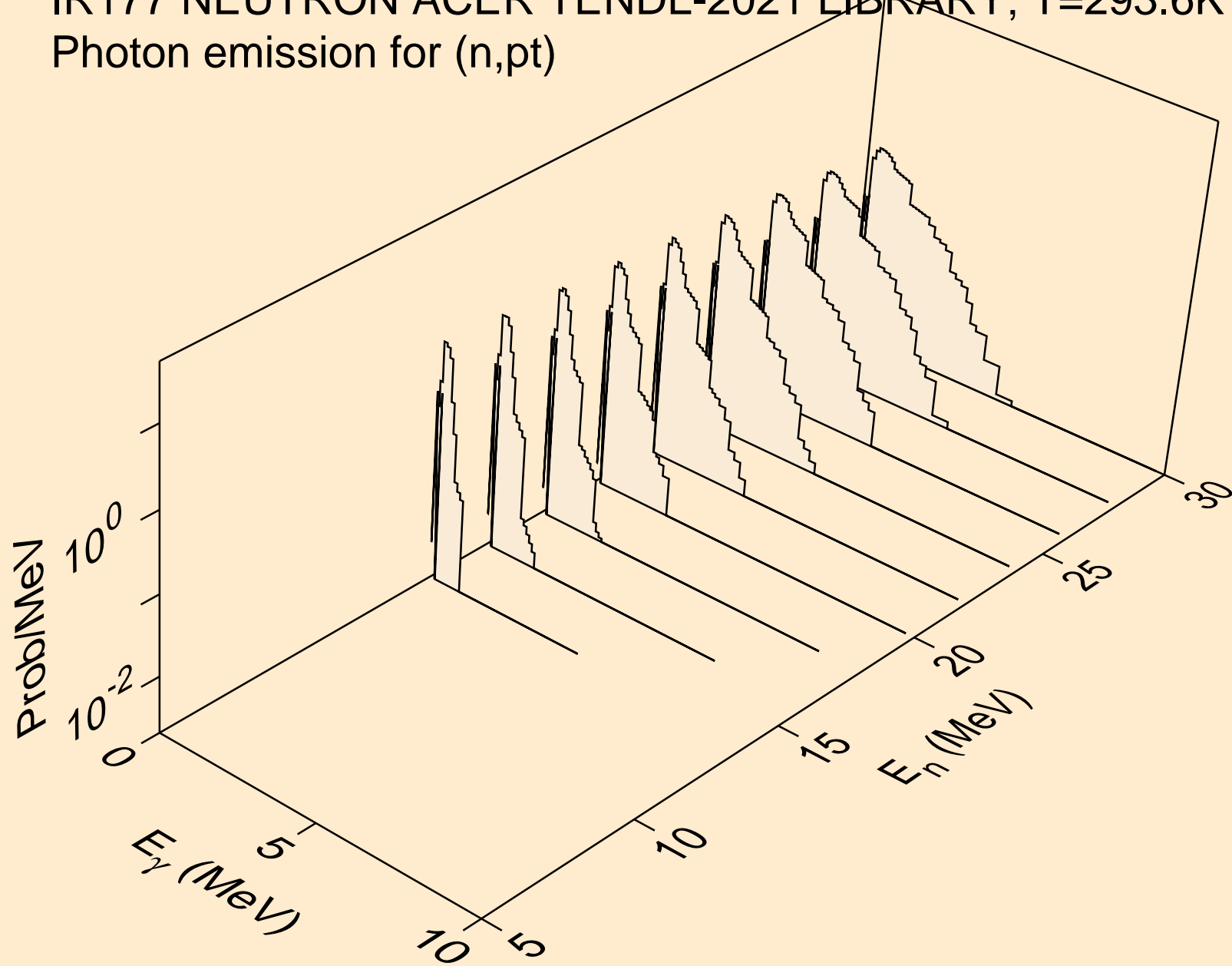




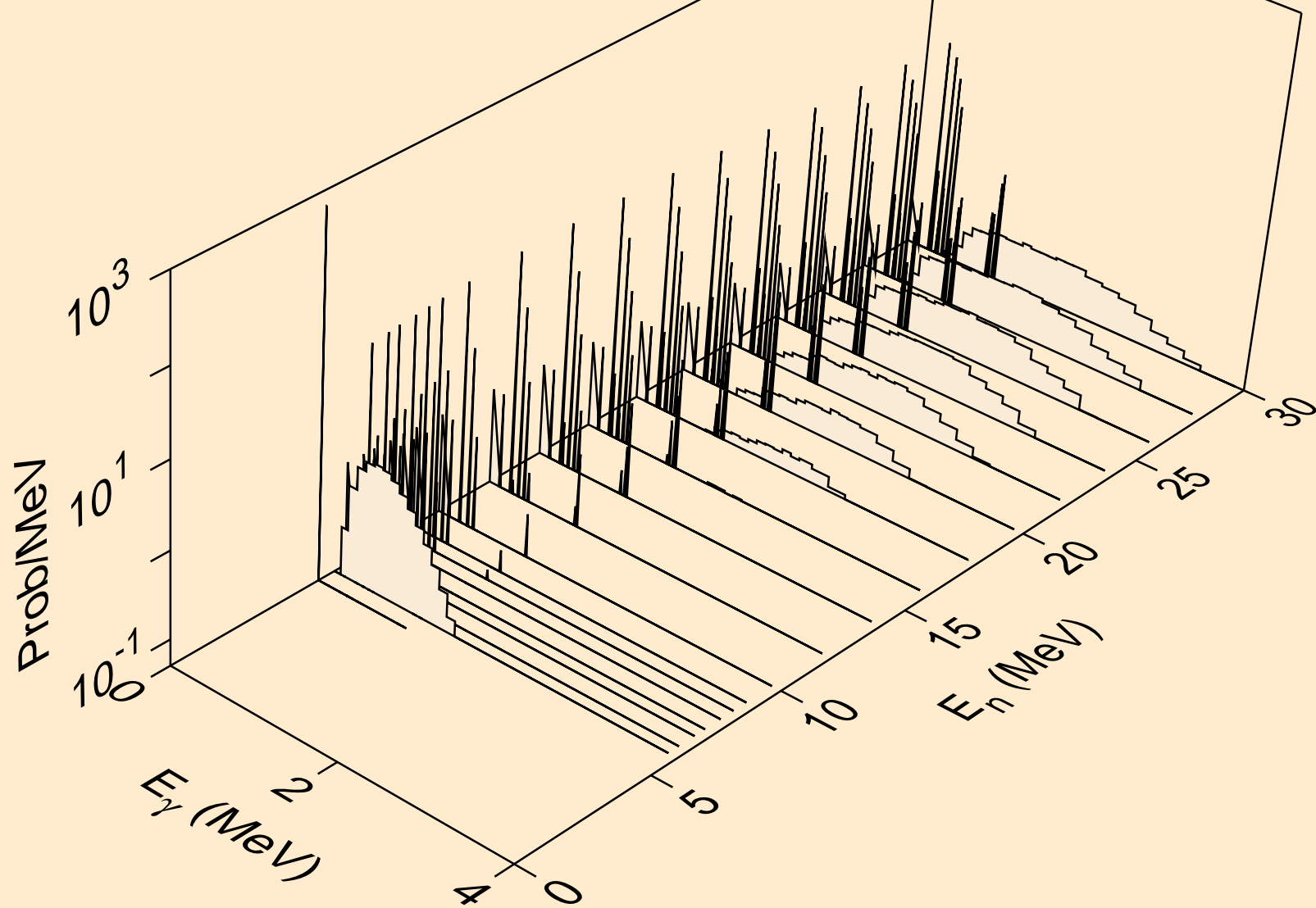
IR177 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,pd)



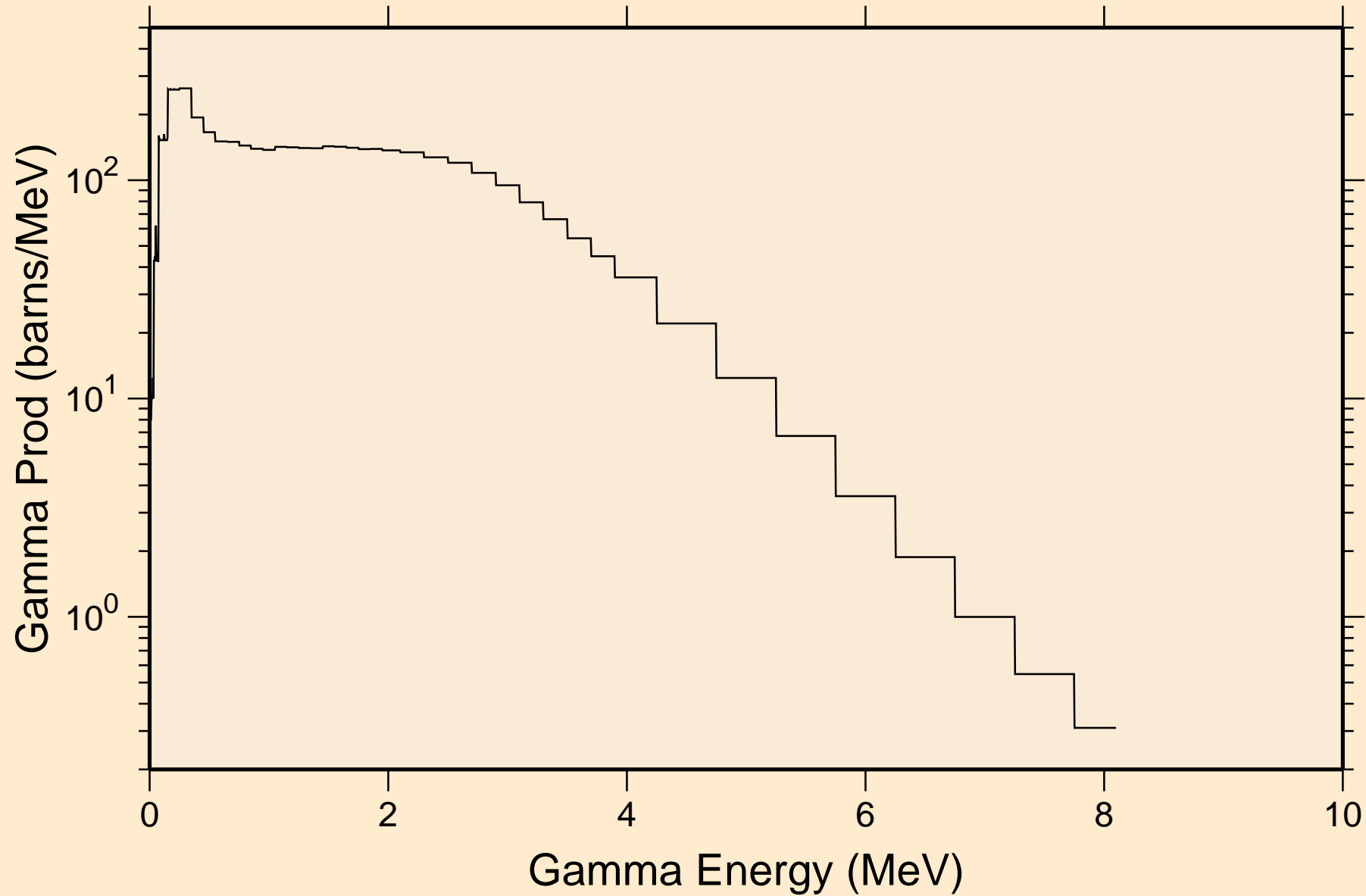
IR177 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,pt)



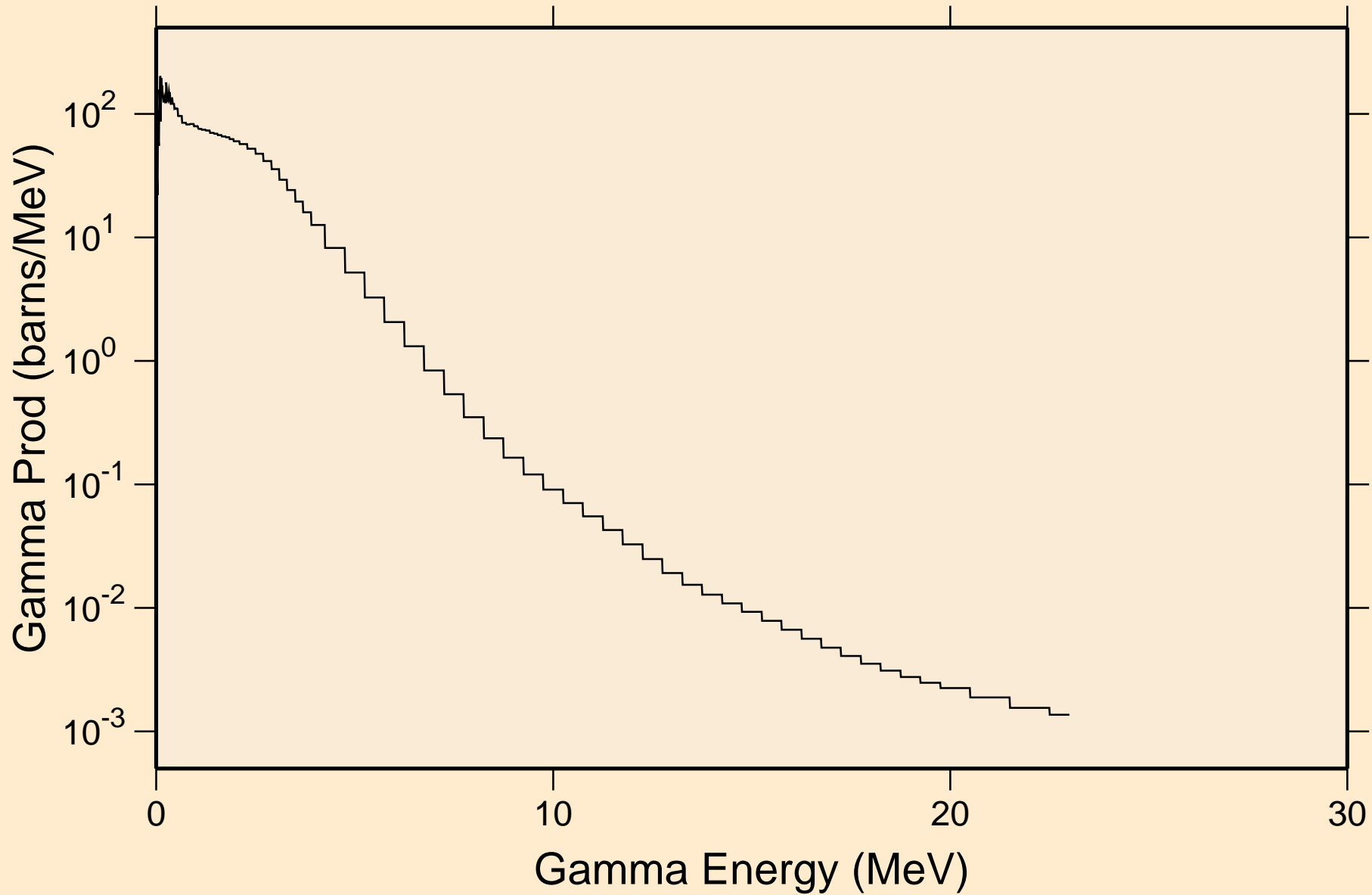
IR177 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,da)



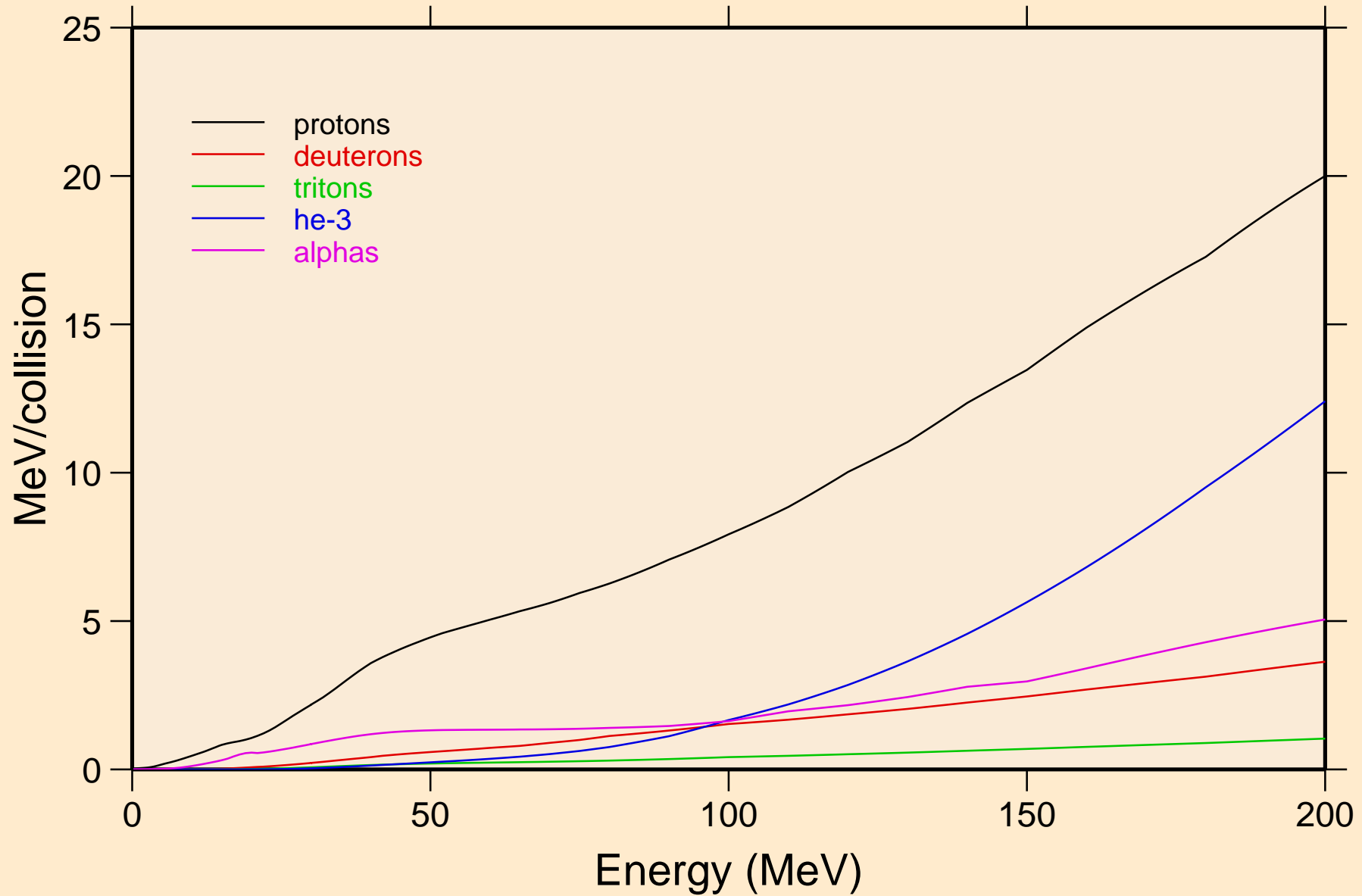
IR177 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
thermal capture photon spectrum



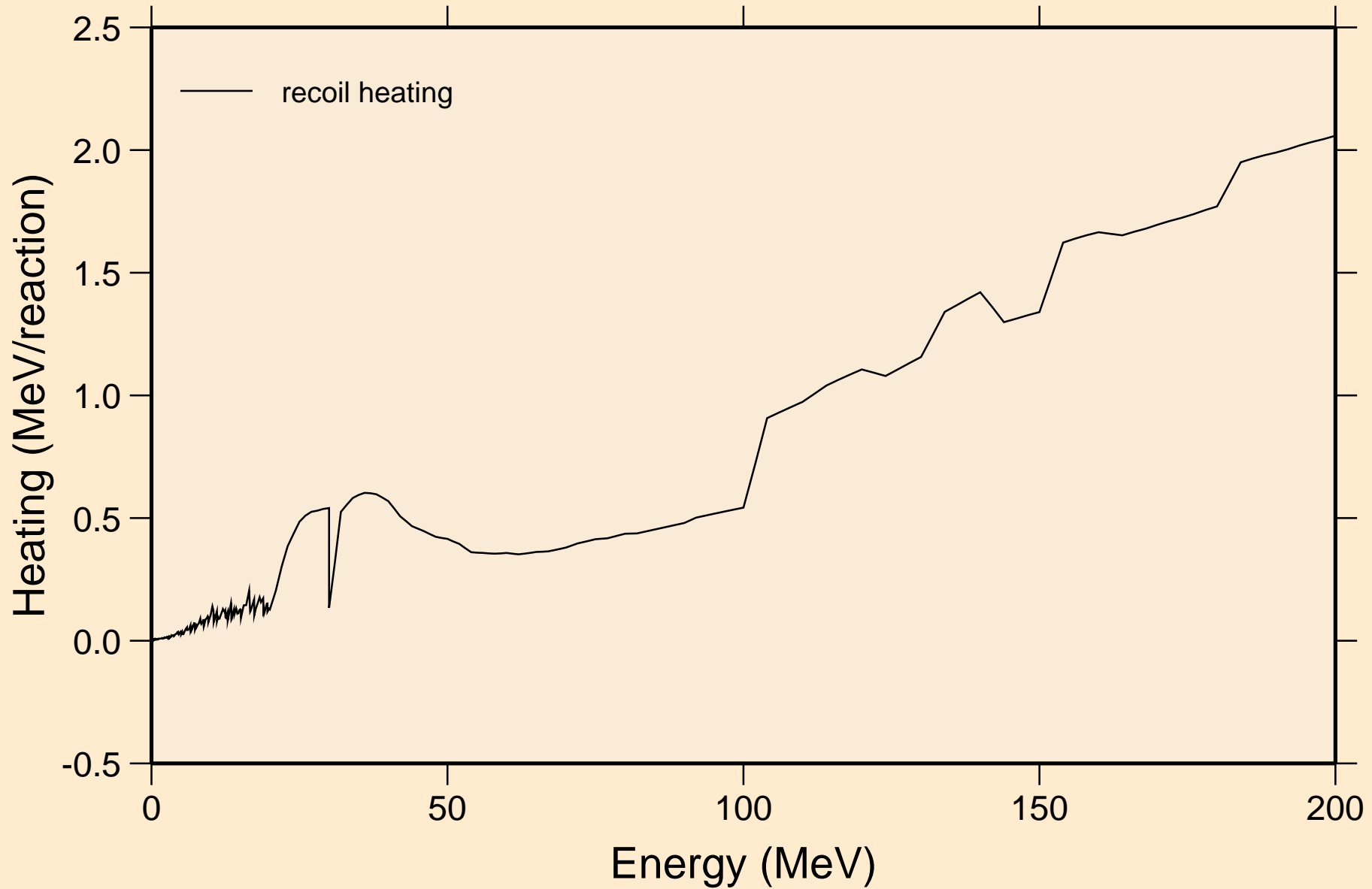
IR177 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
14 MeV photon spectrum



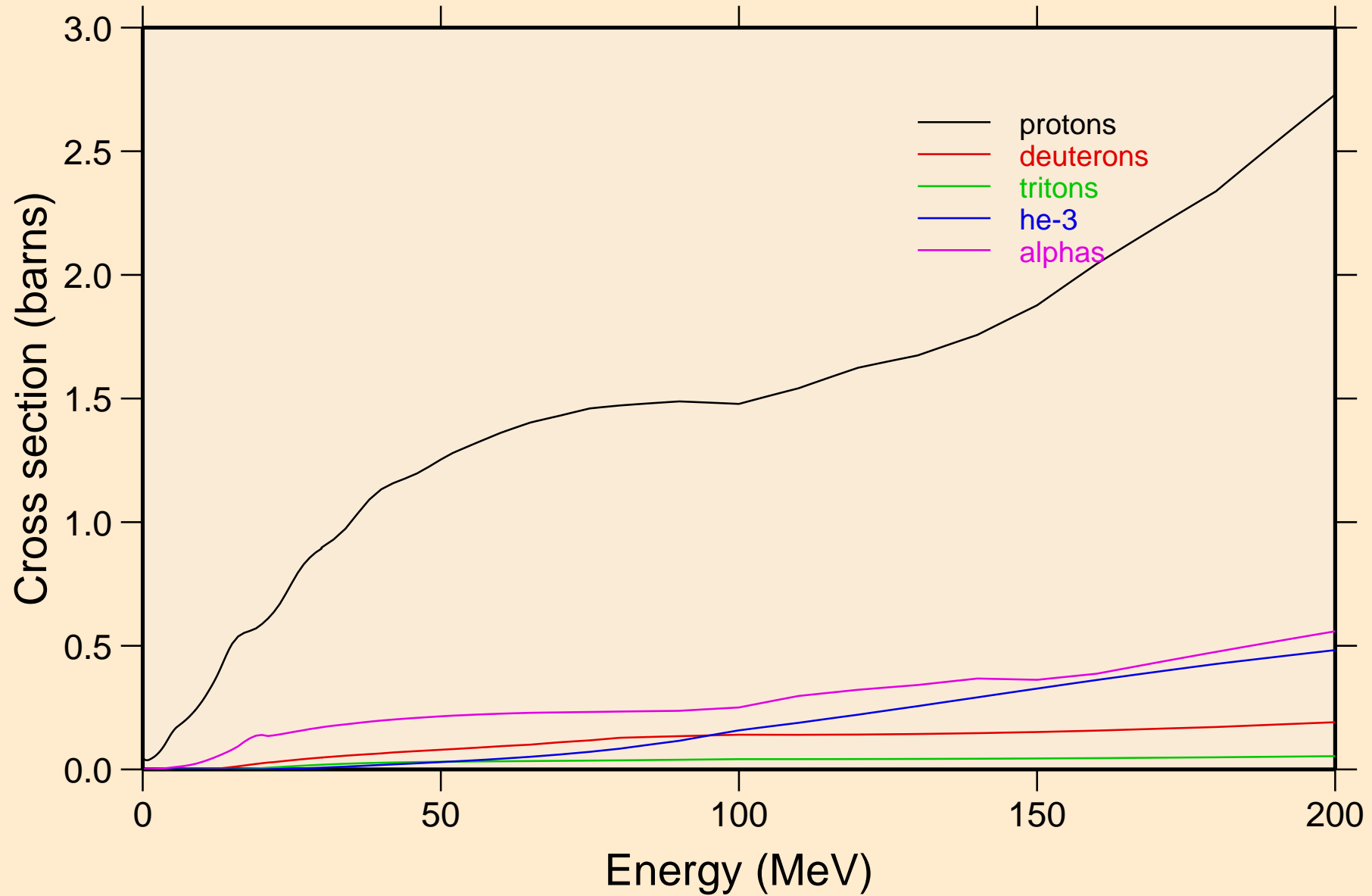
IR177 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Particle heating contributions



IR177 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Recoil Heating

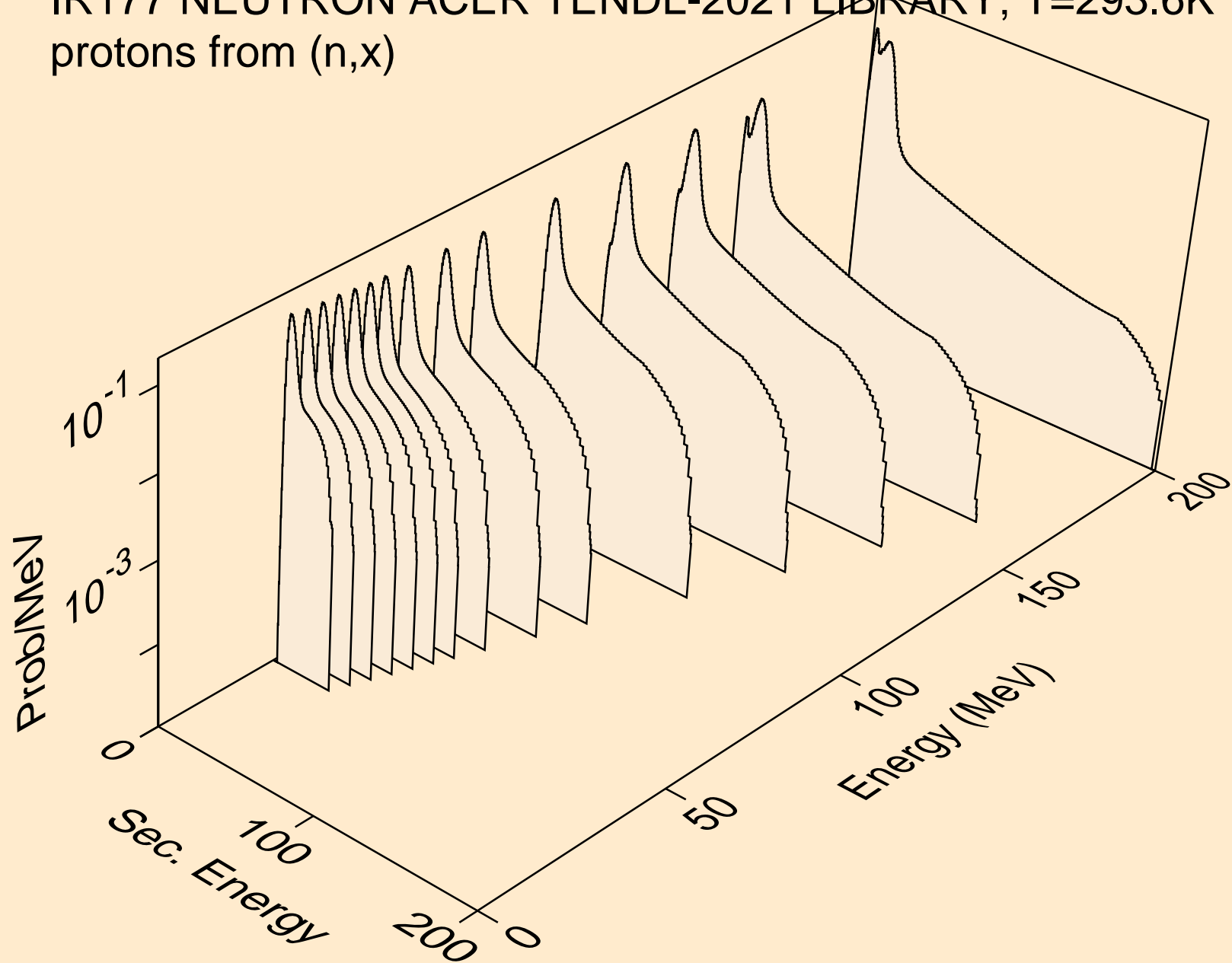


IR177 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Particle production cross sections

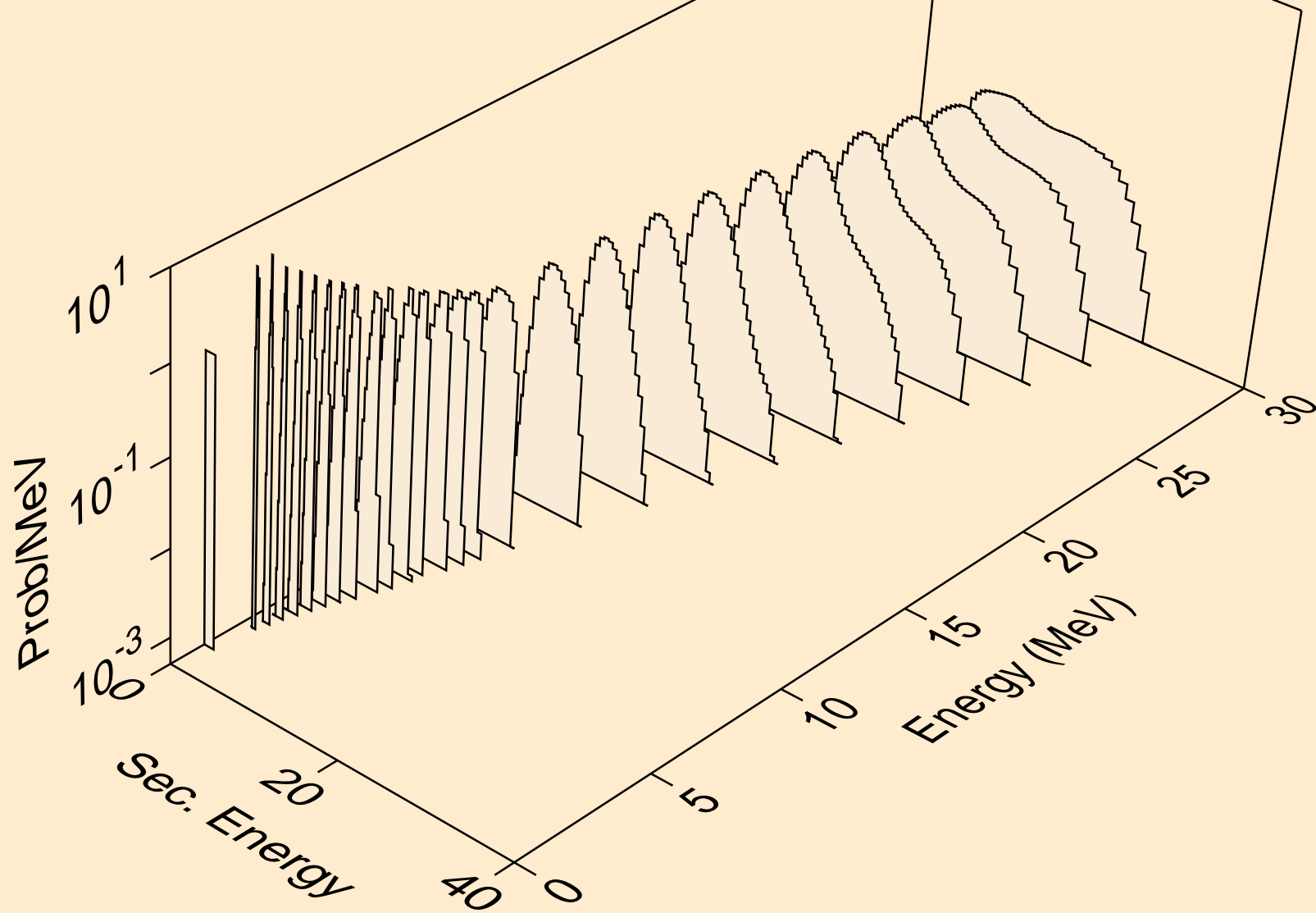




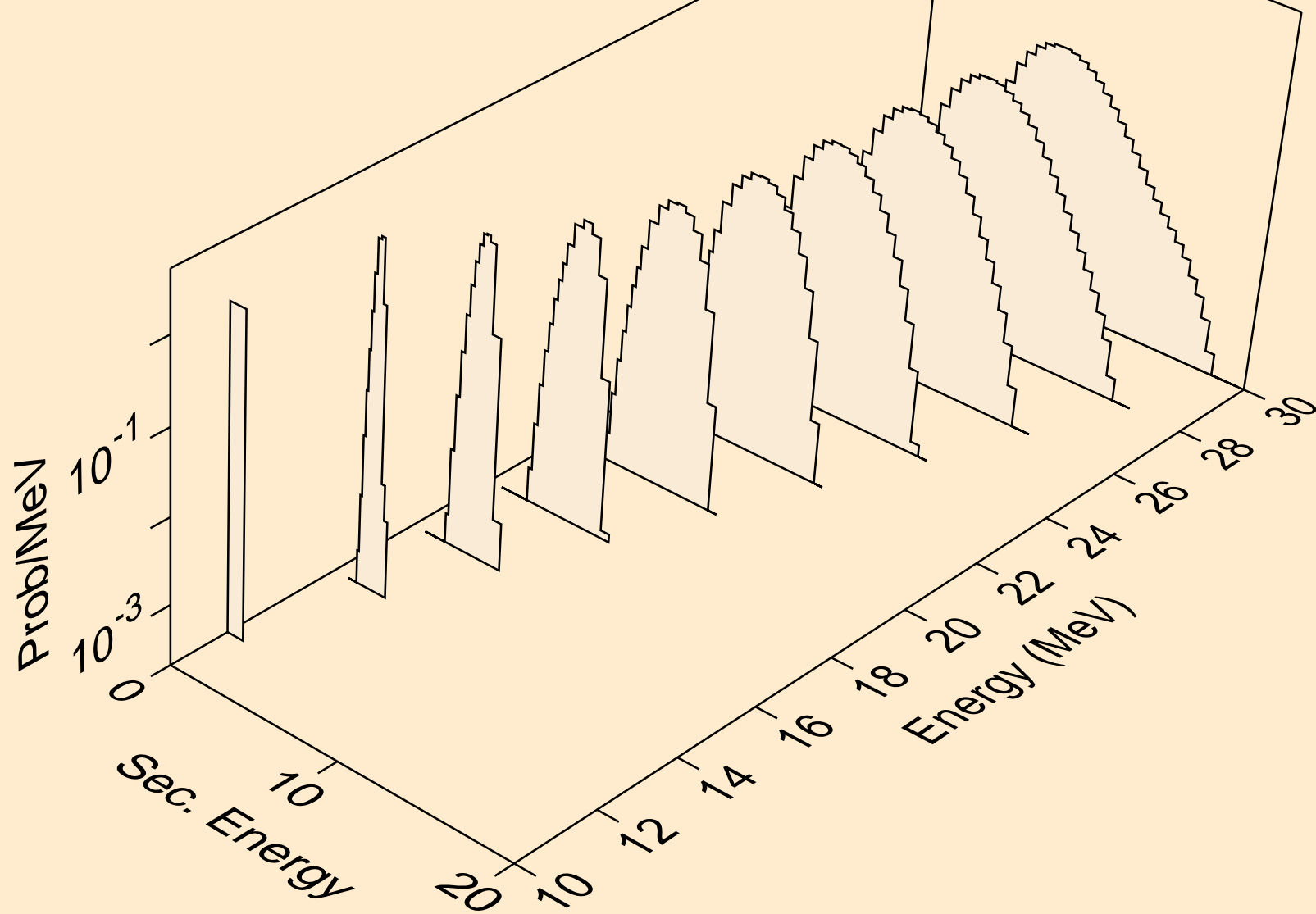
IR177 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
protons from (n,x)



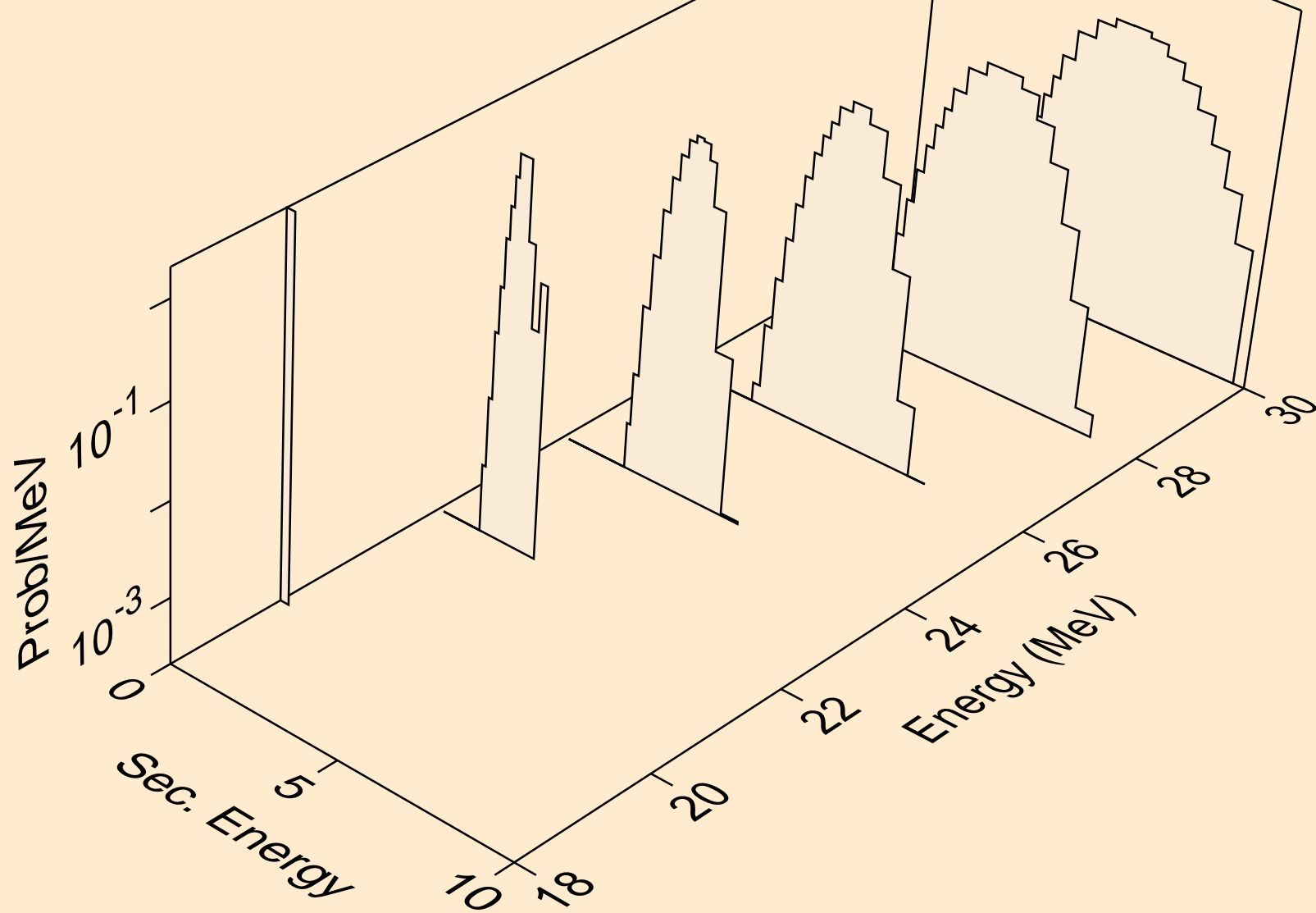
IR177 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
protons from (n,n\*)p



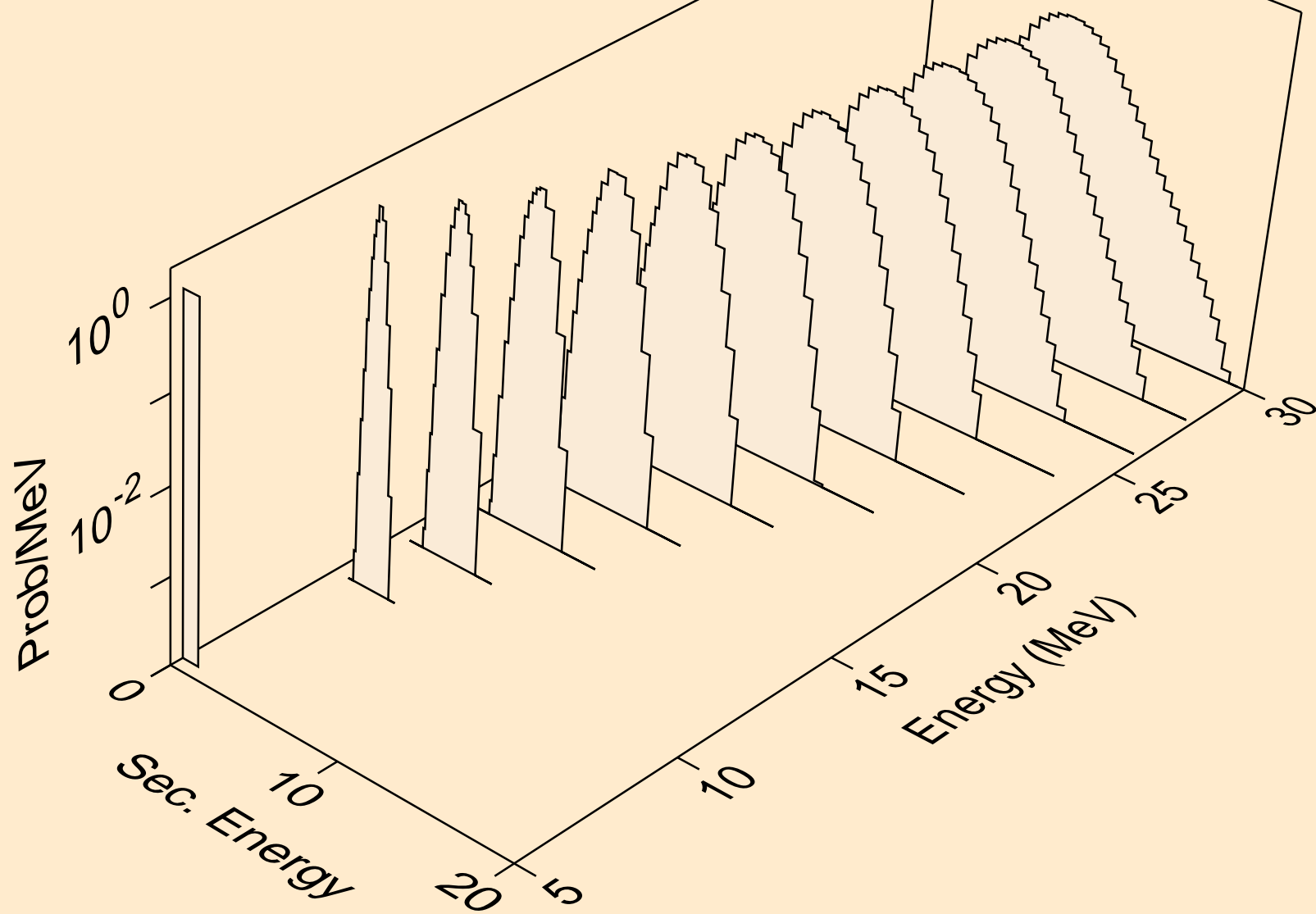
IR177 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
protons from (n,2np)



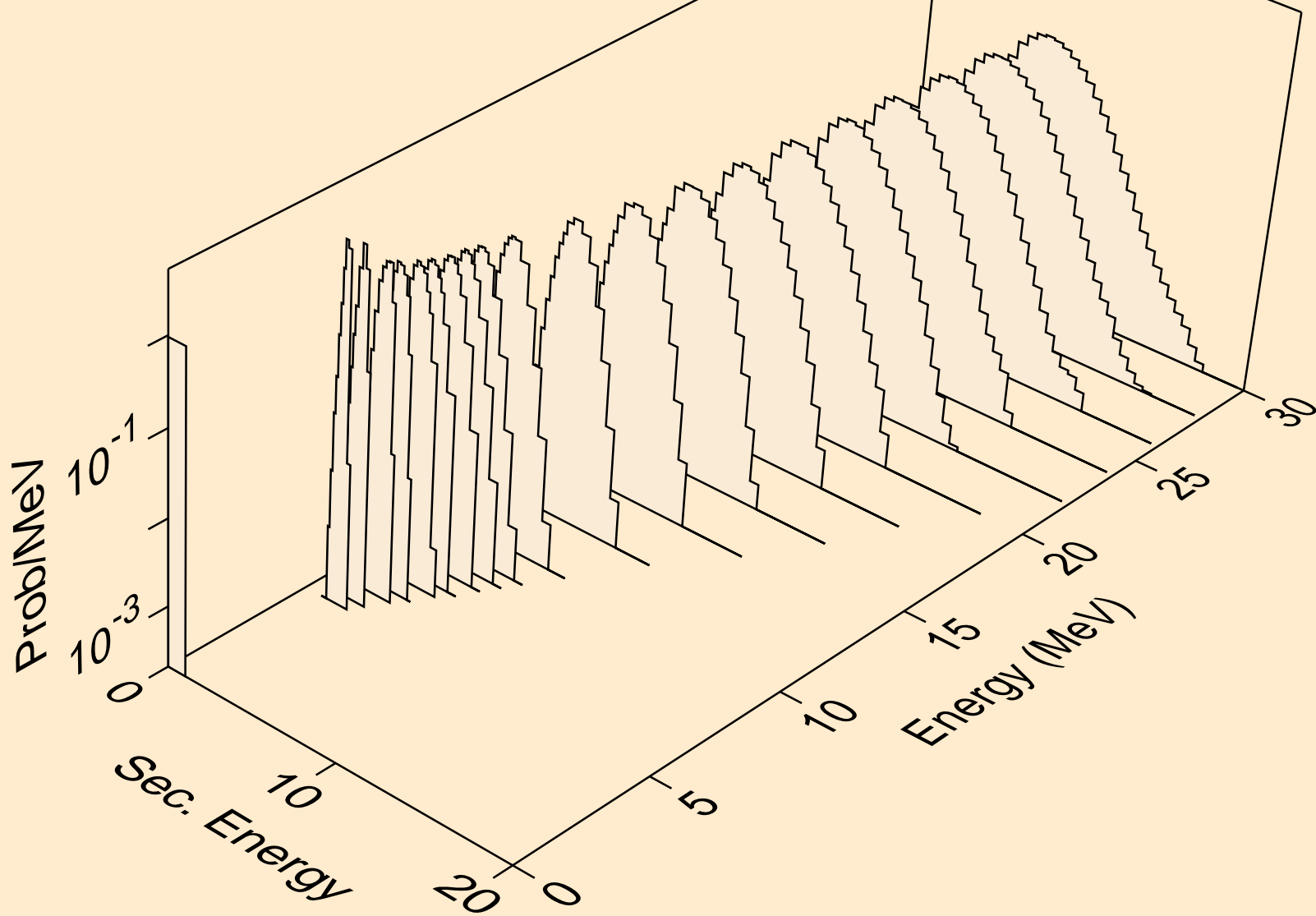
IR177 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
protons from (n,3np)



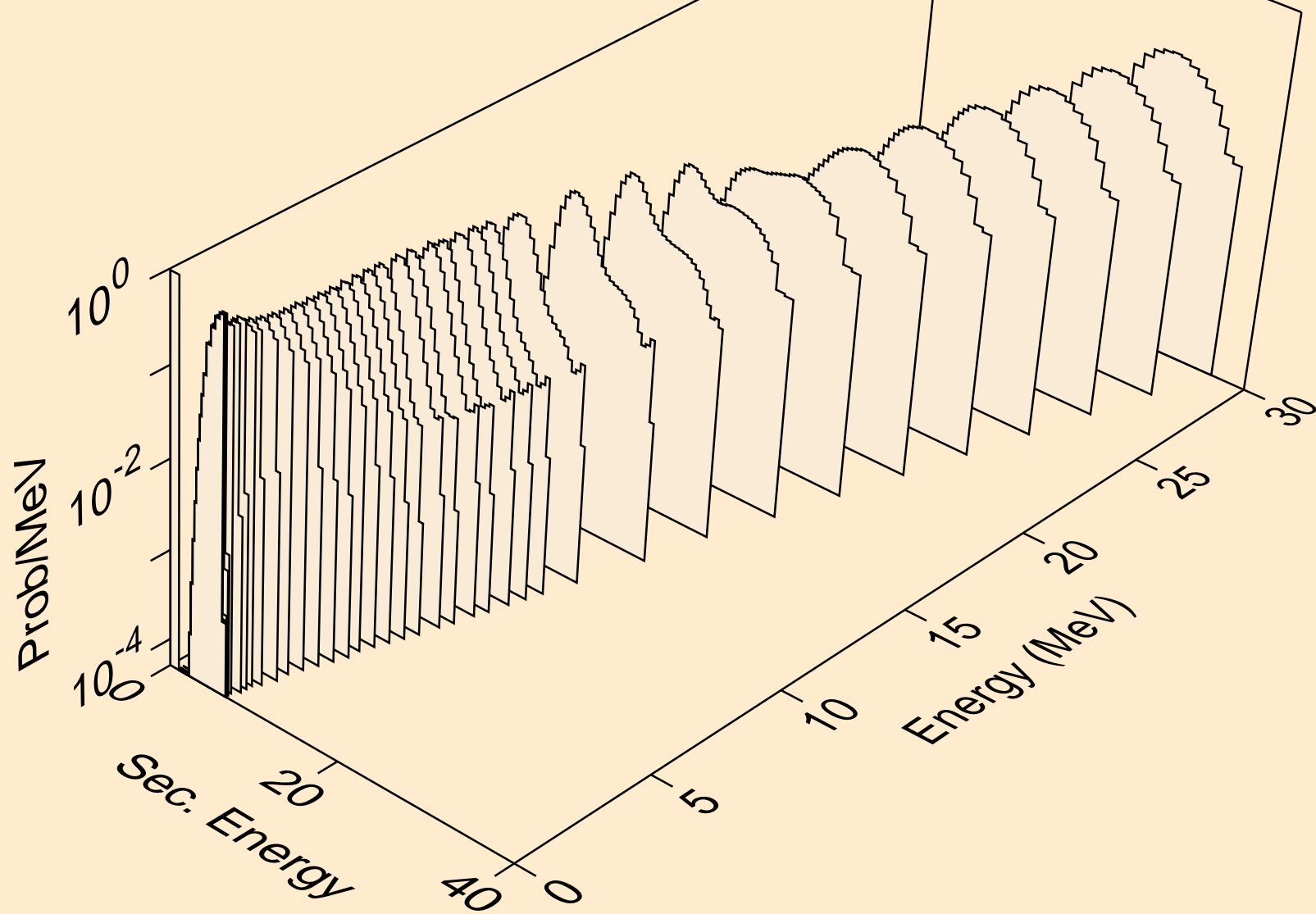
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protons from (n,2np)



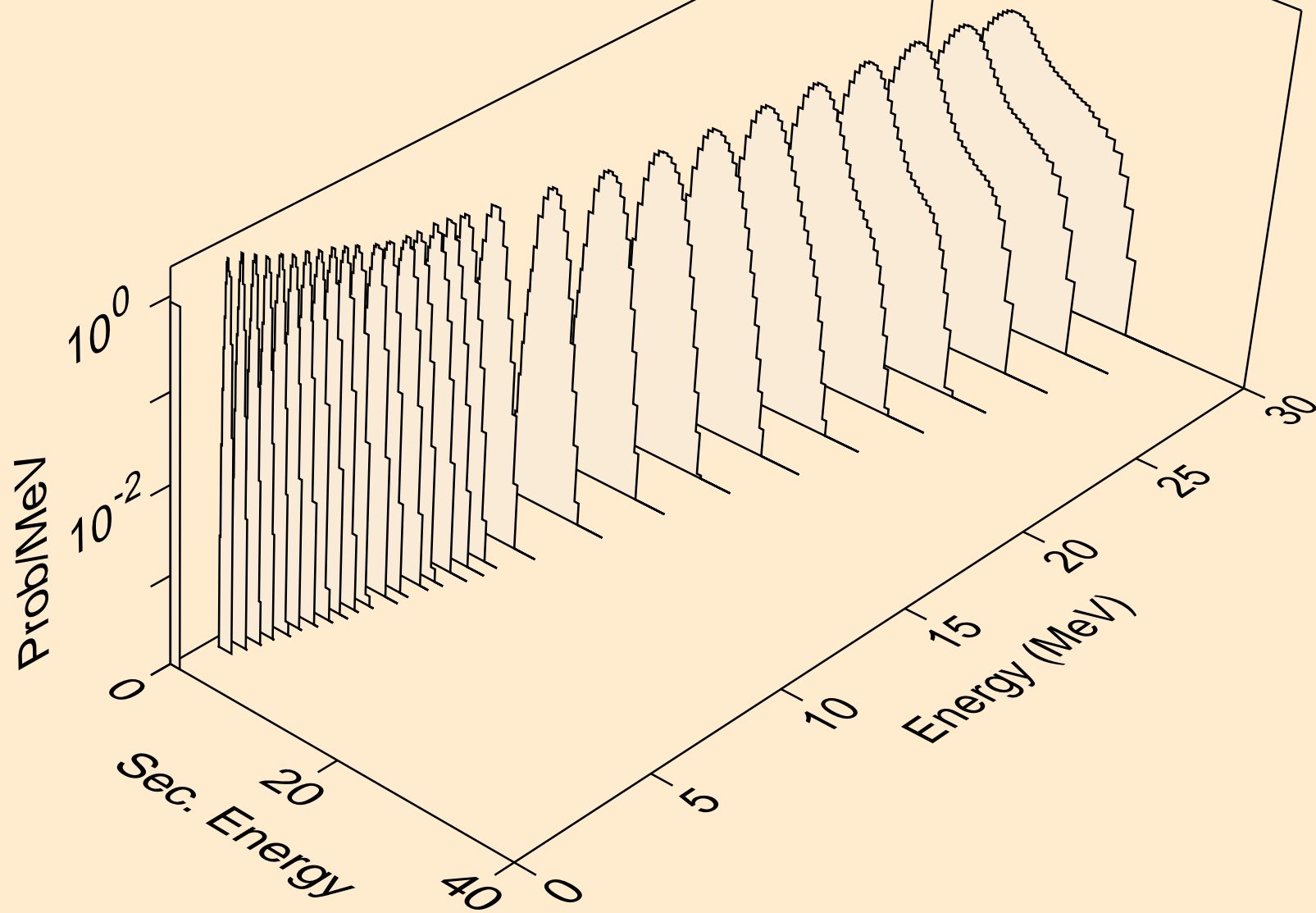
IR177 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
protons from (n,npa)



IR177 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
protons from (n,p)

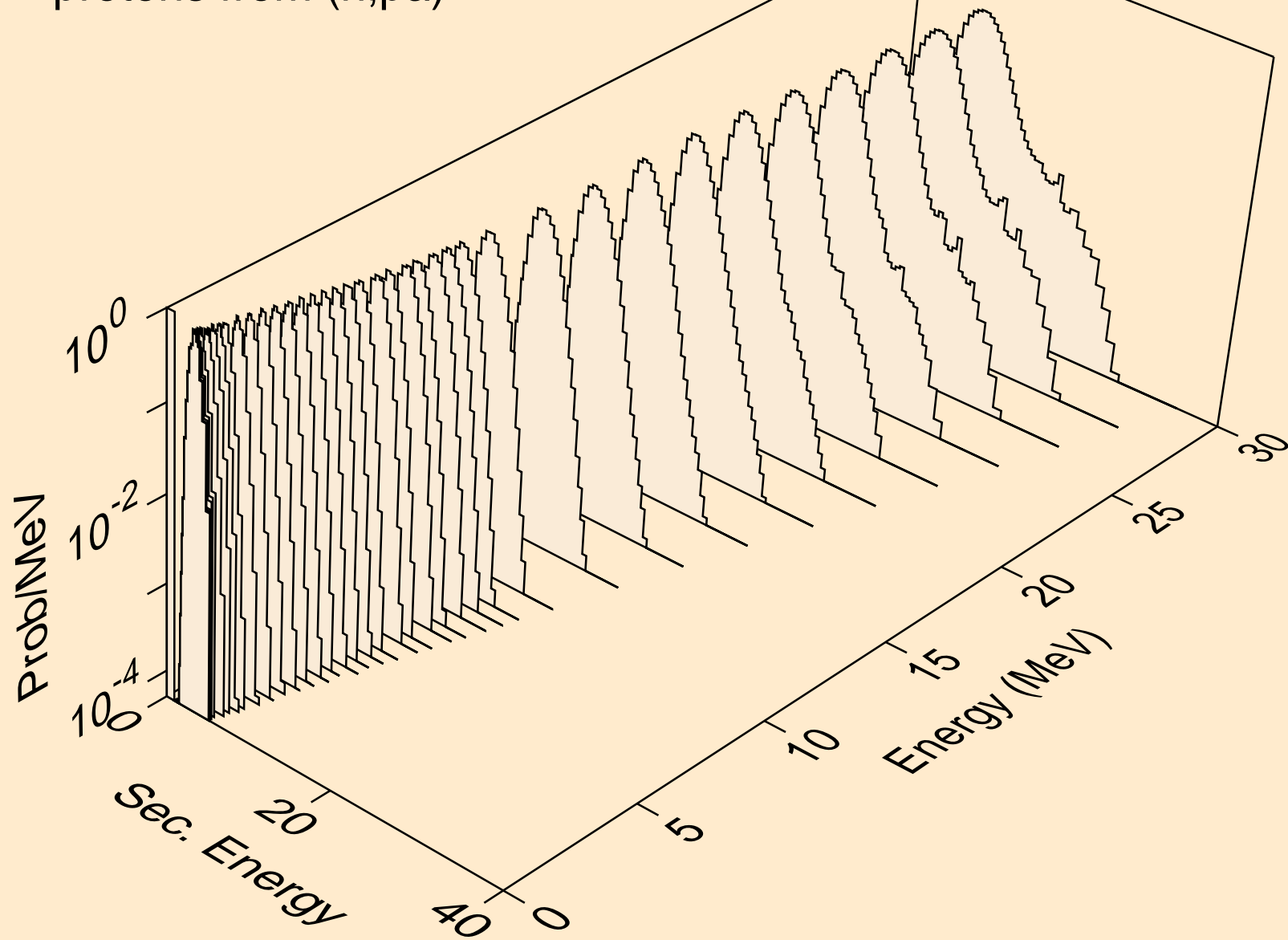


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protons from (n,2p)

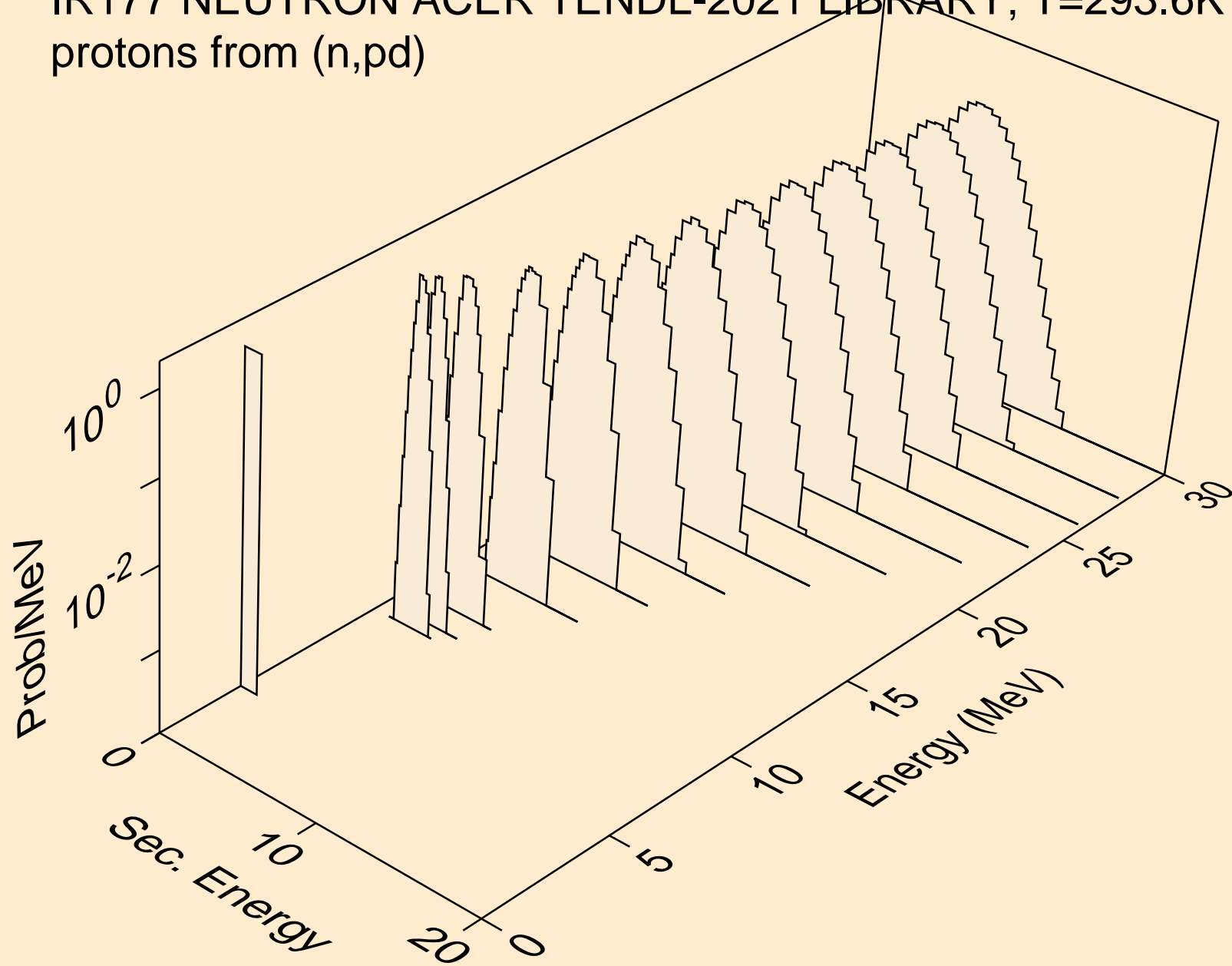




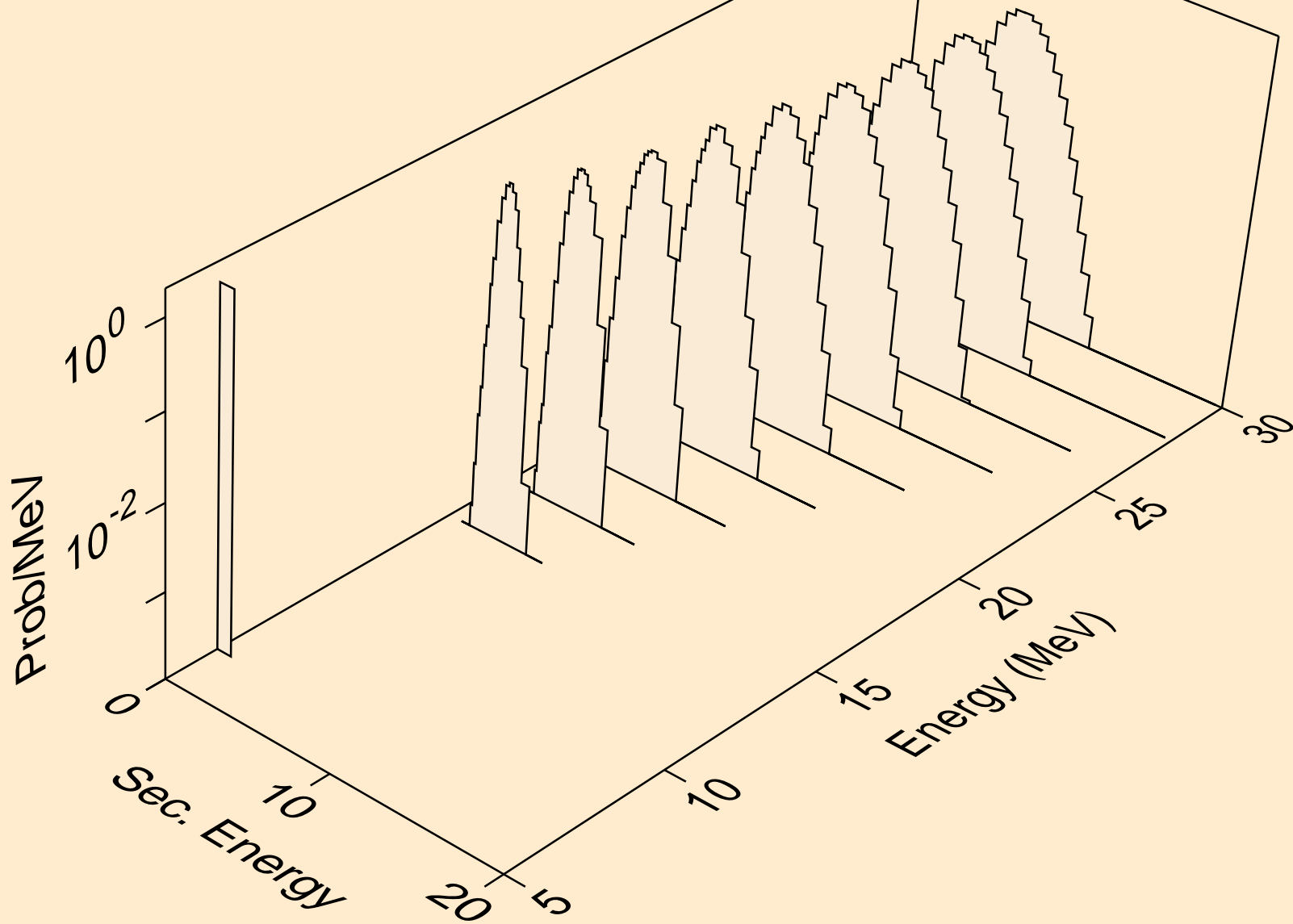
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protons from (n,p)



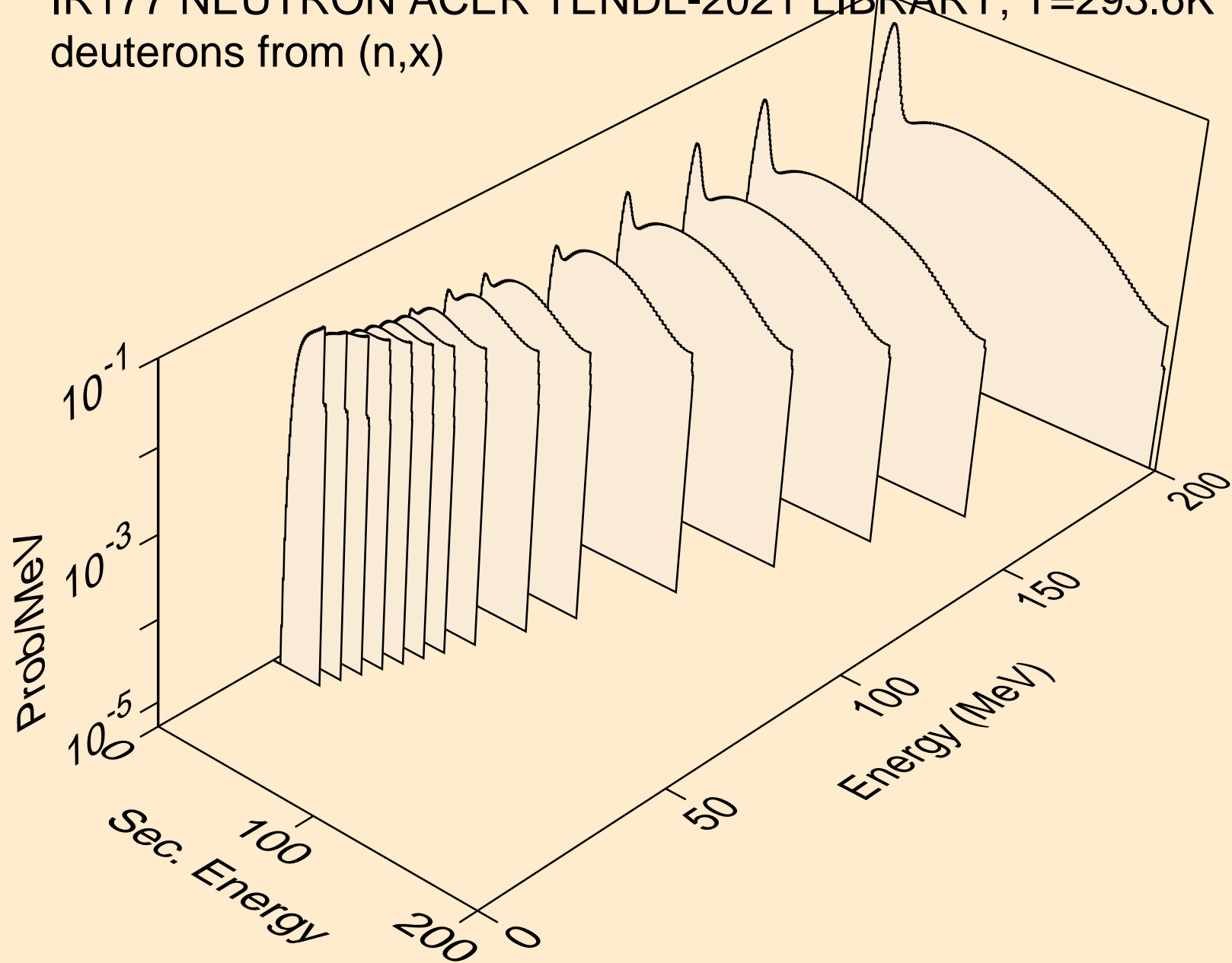
IR177 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
protons from (n,pd)



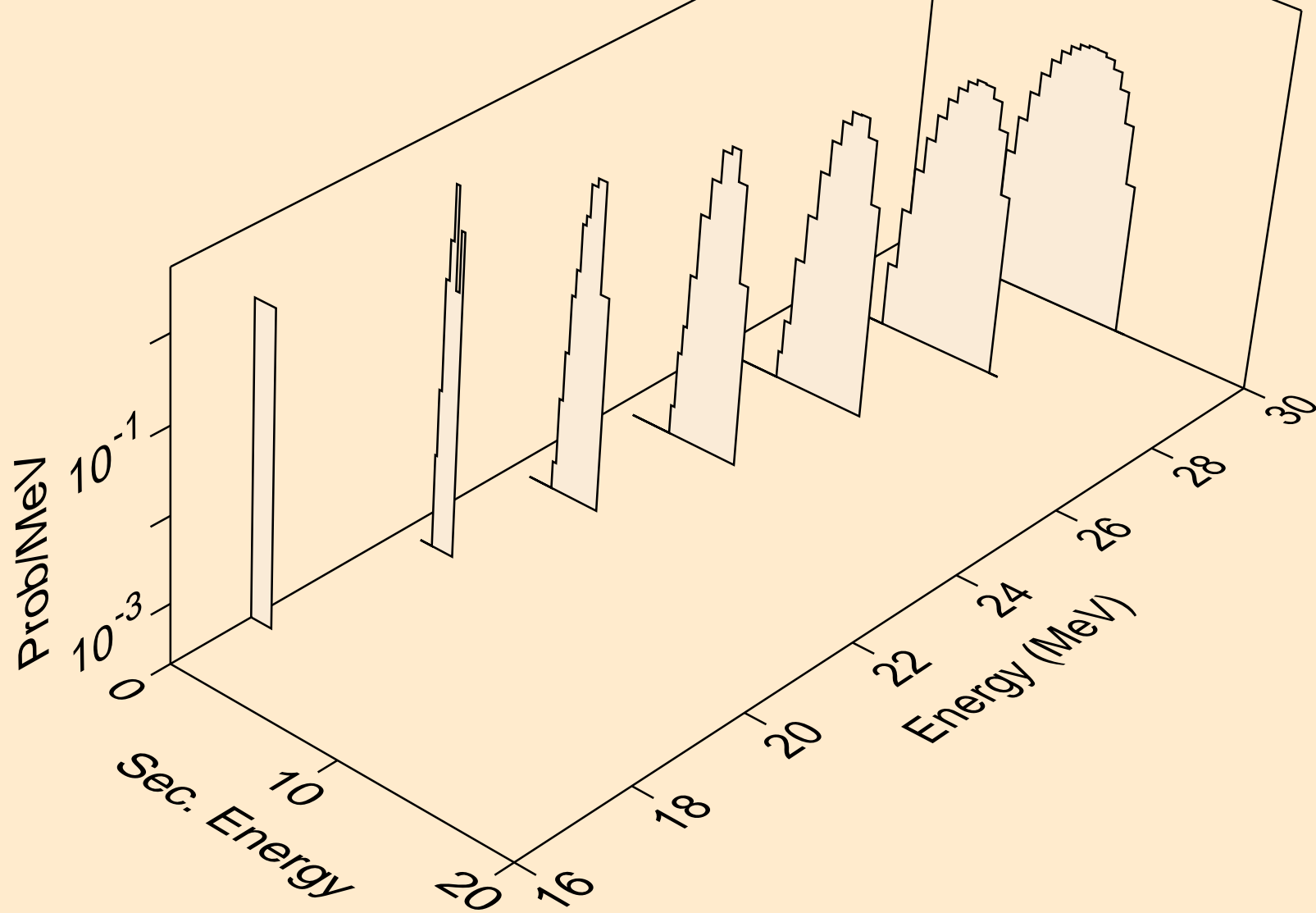
IR177 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
protons from (n,pt)



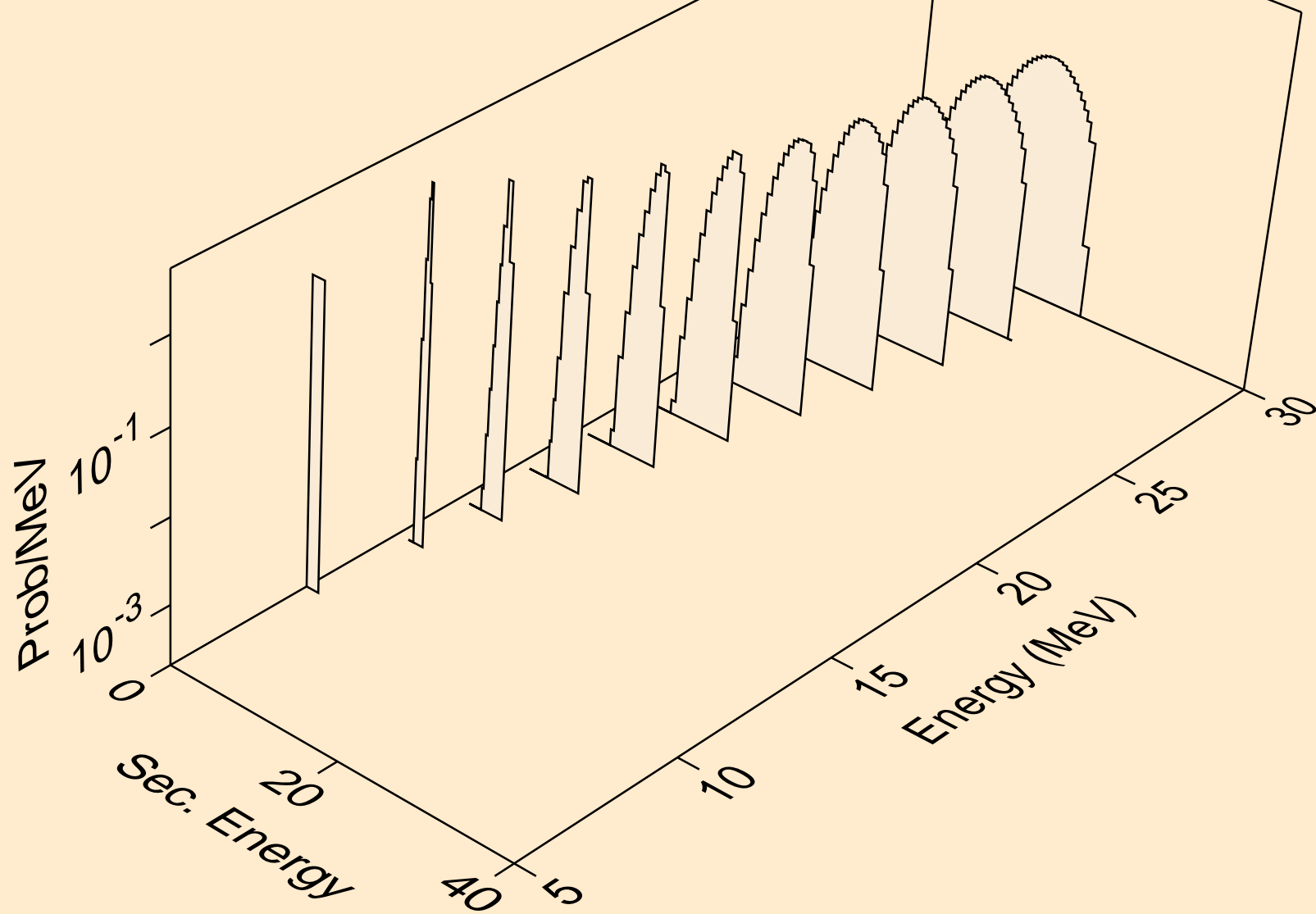
IR177 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
deuterons from (n,x)



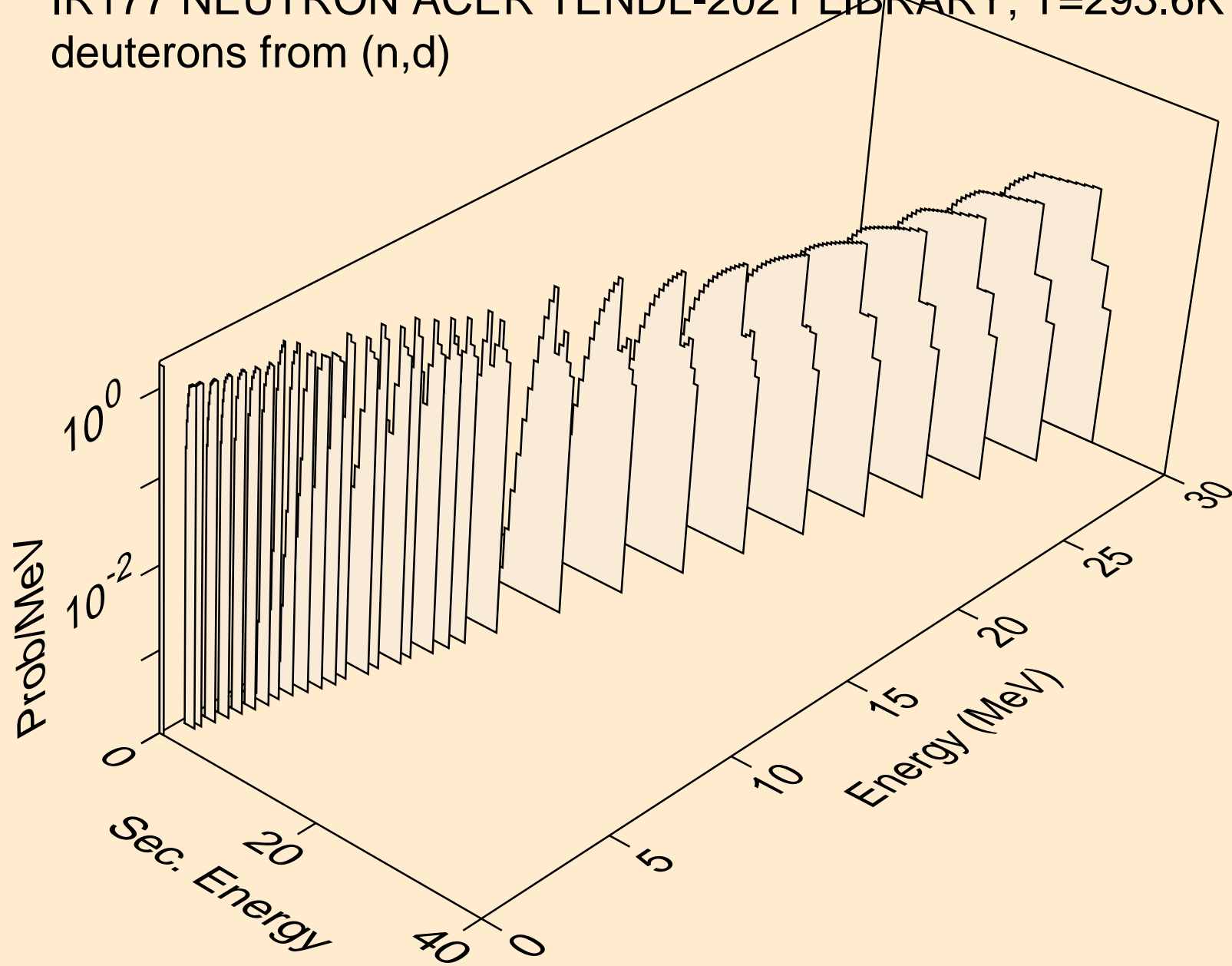
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deuterons from (n,2nd)



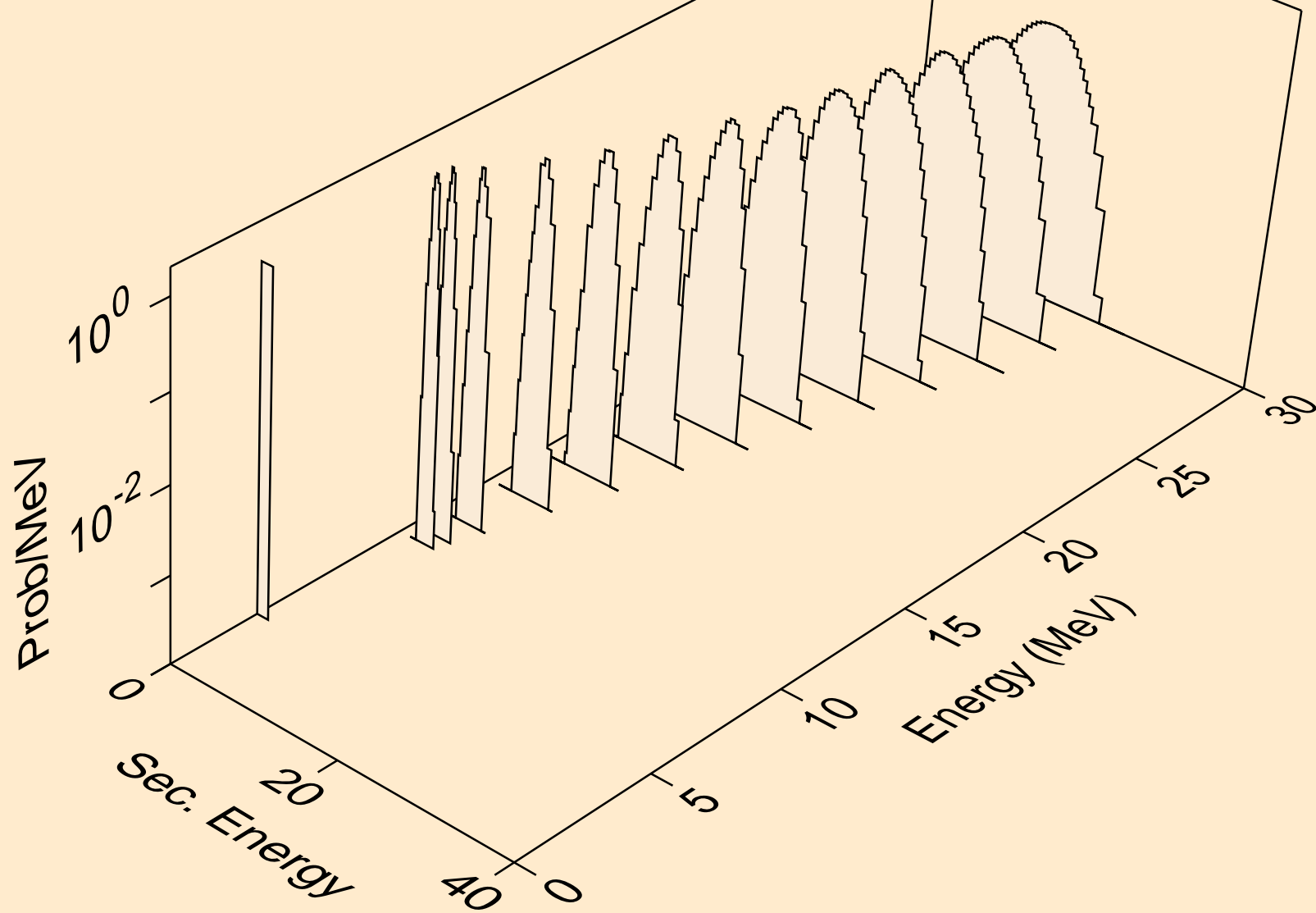
IR177 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
deuterons from (n,n\*)d



IR177 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
deuterons from (n,d)

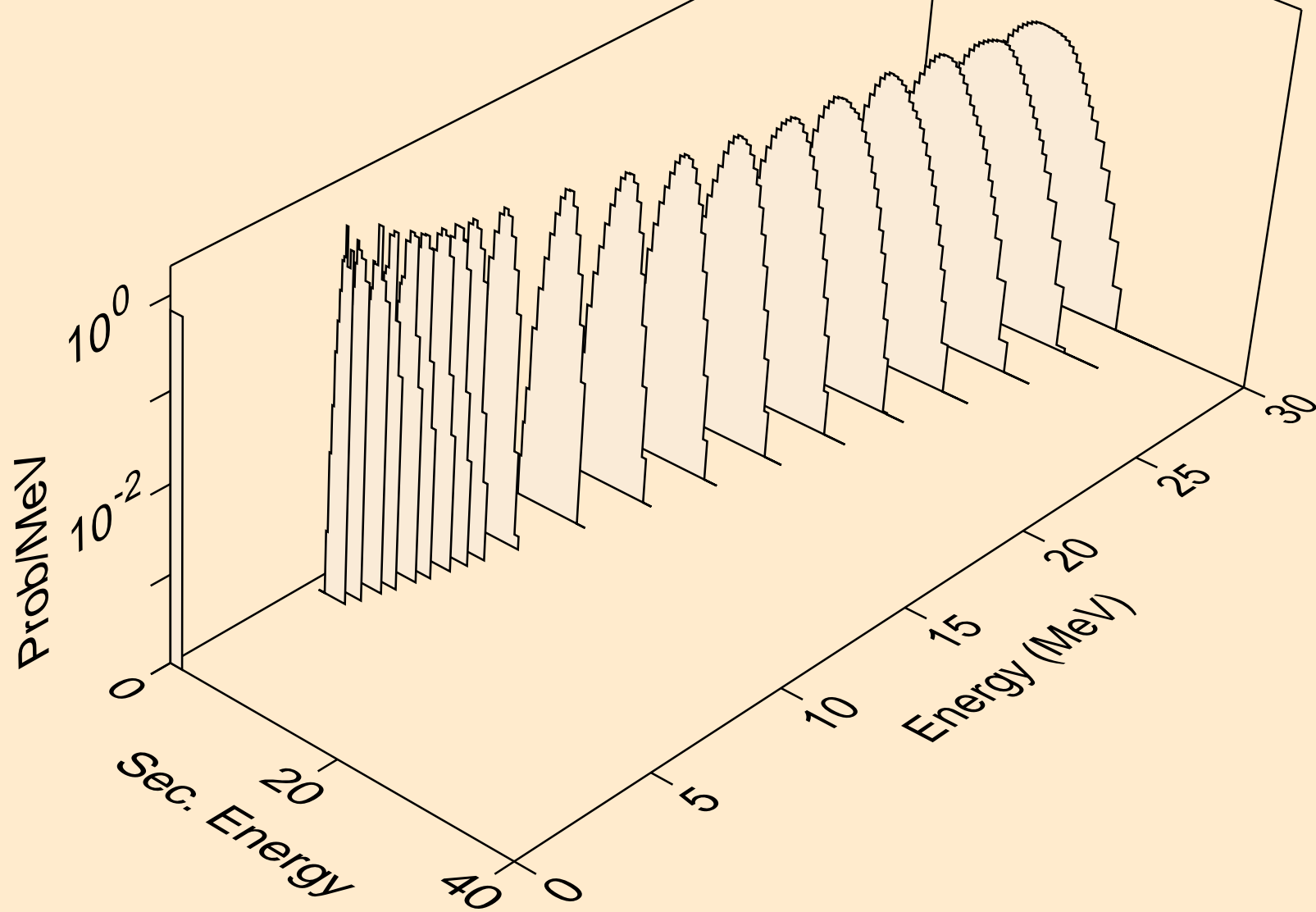


IR177 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
deuterons from (n,pd)

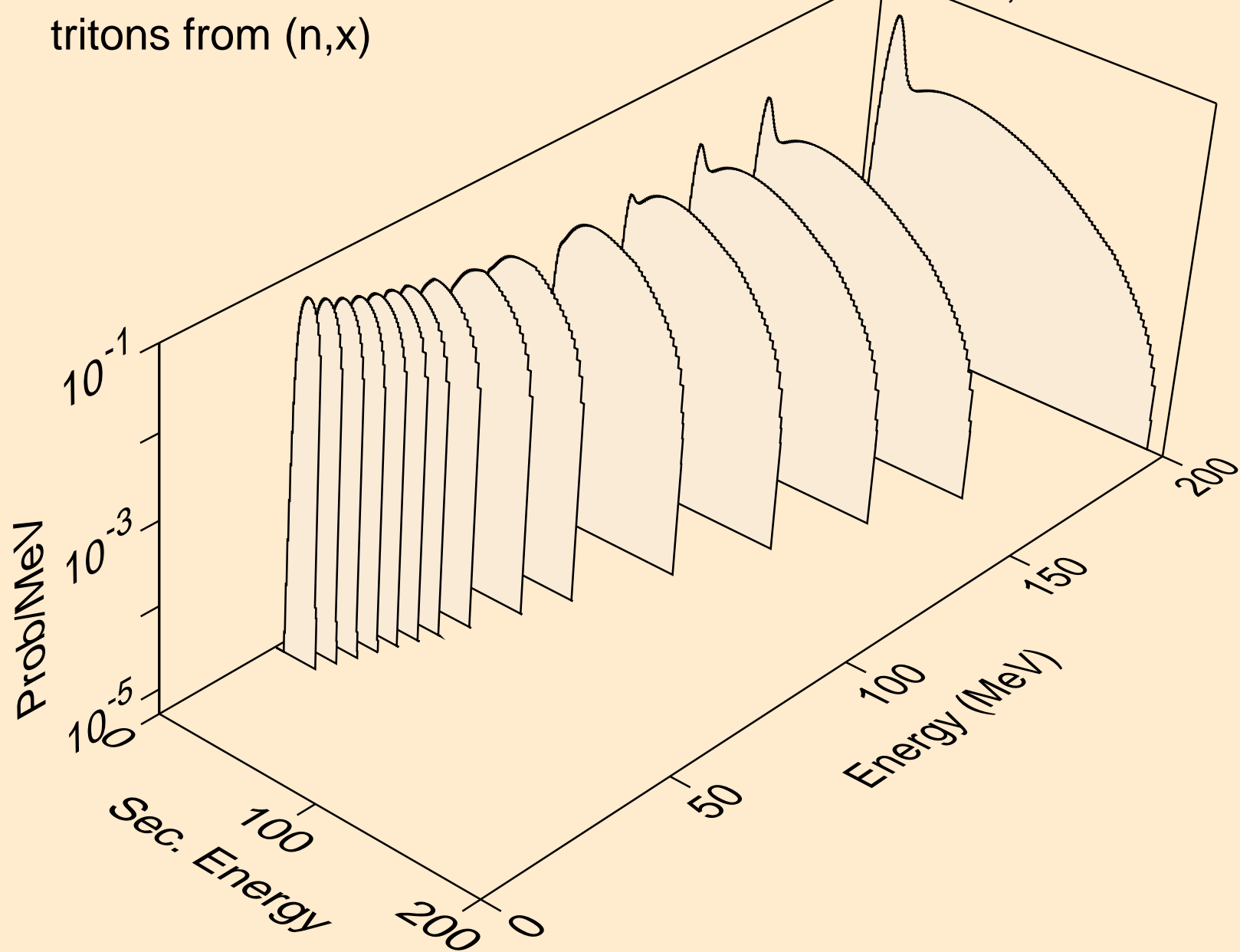




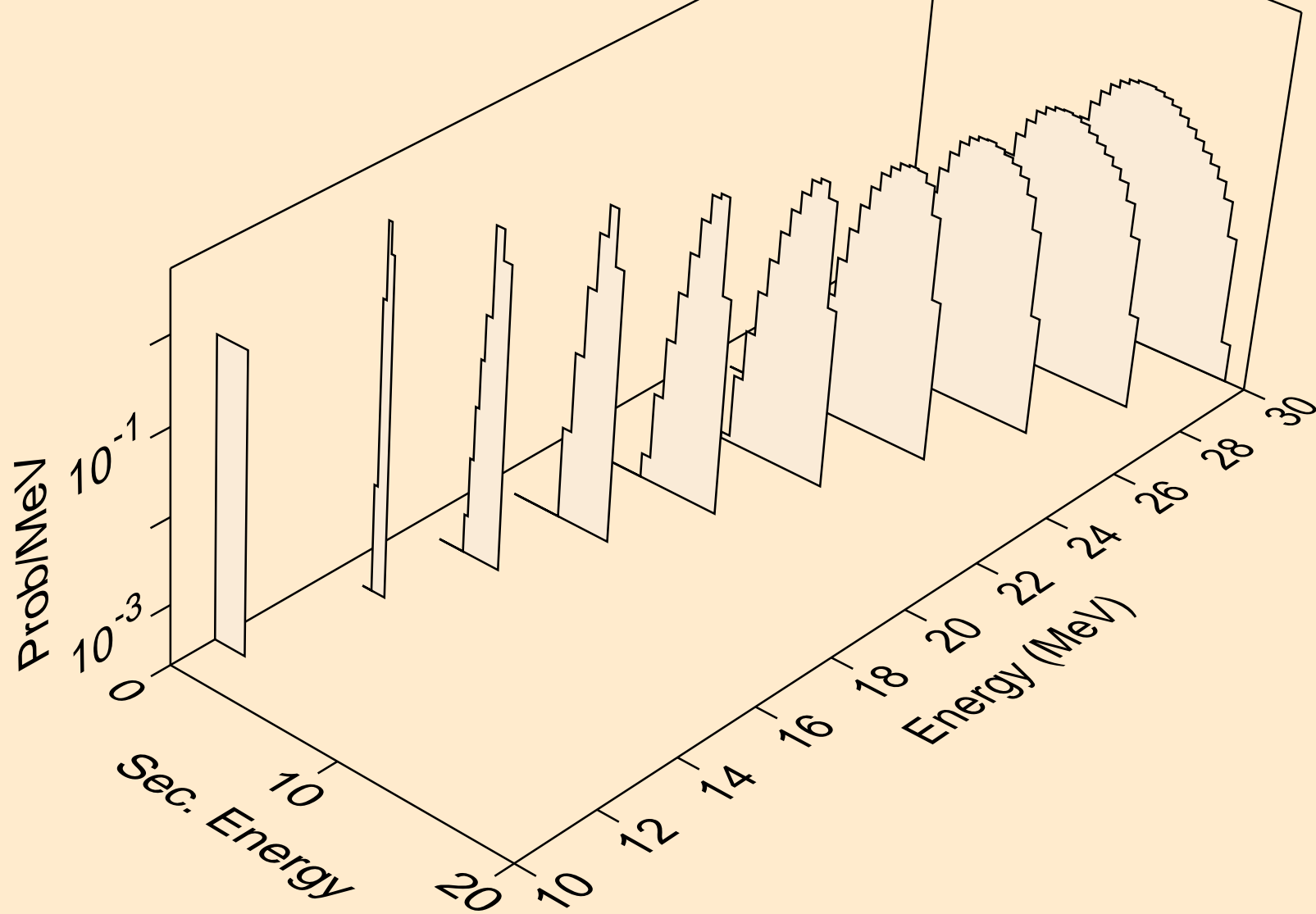
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deuterons from (n,da)



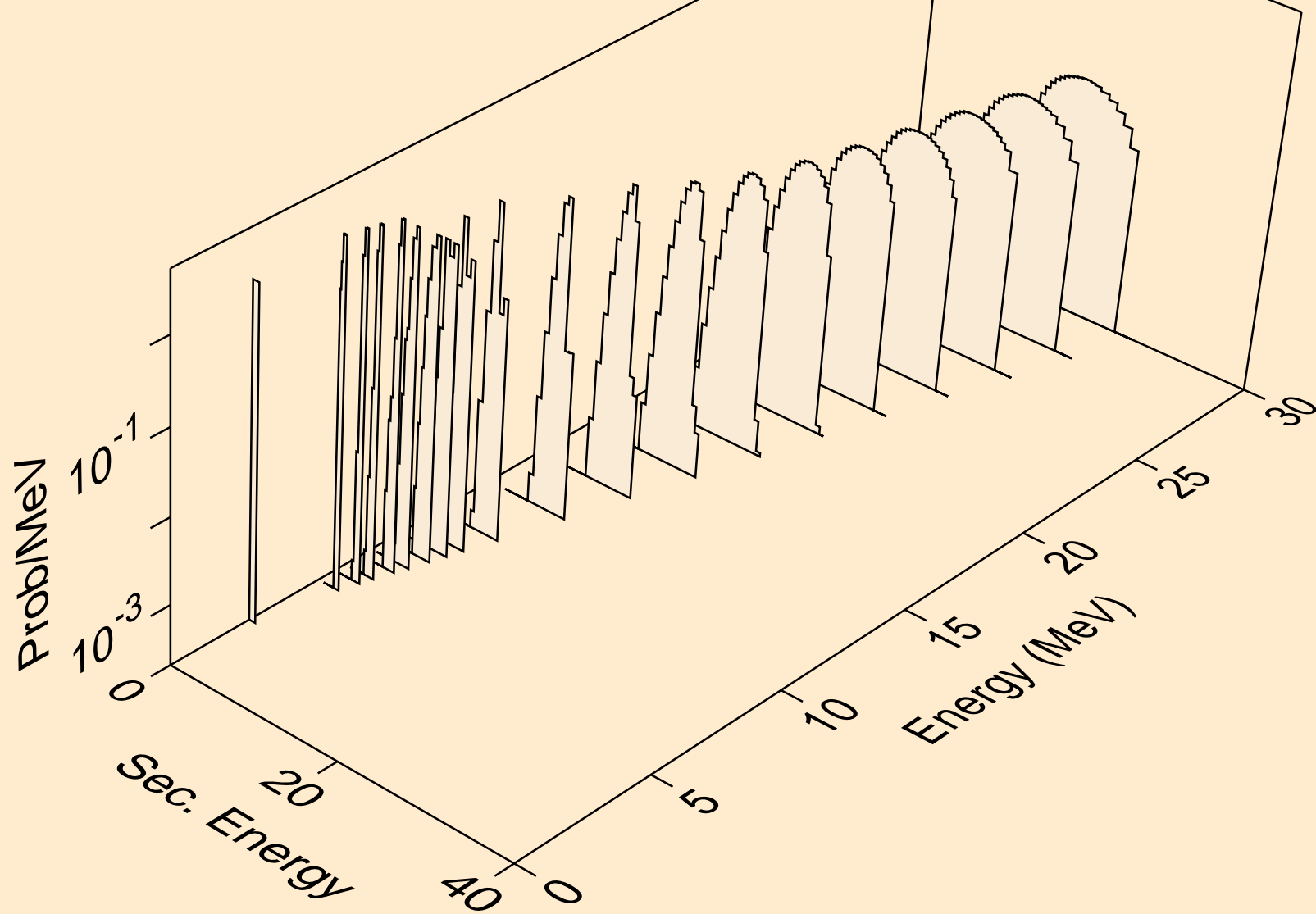
IR177 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
tritons from (n,x)



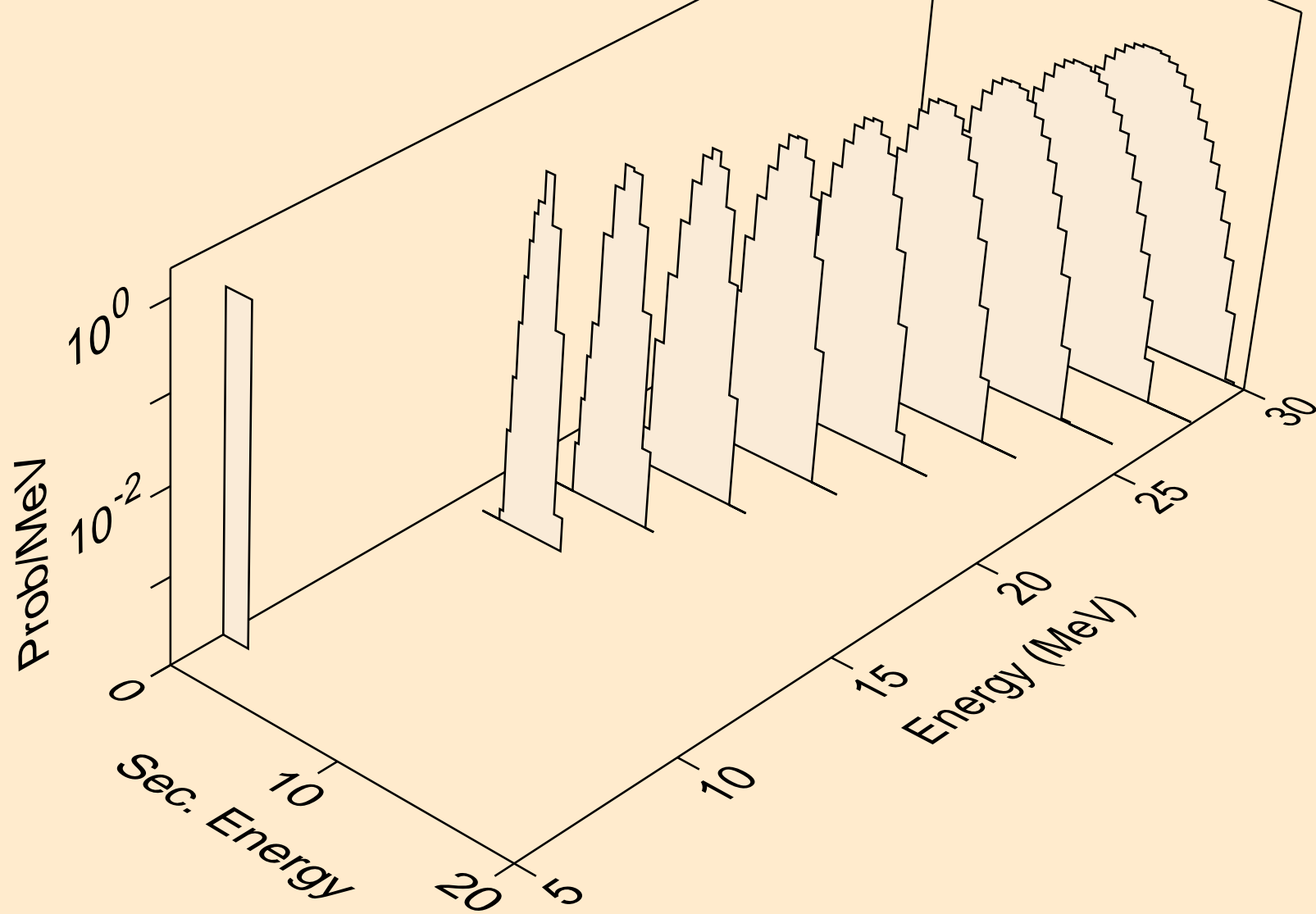
IR177 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
tritons from (n,n\*)t



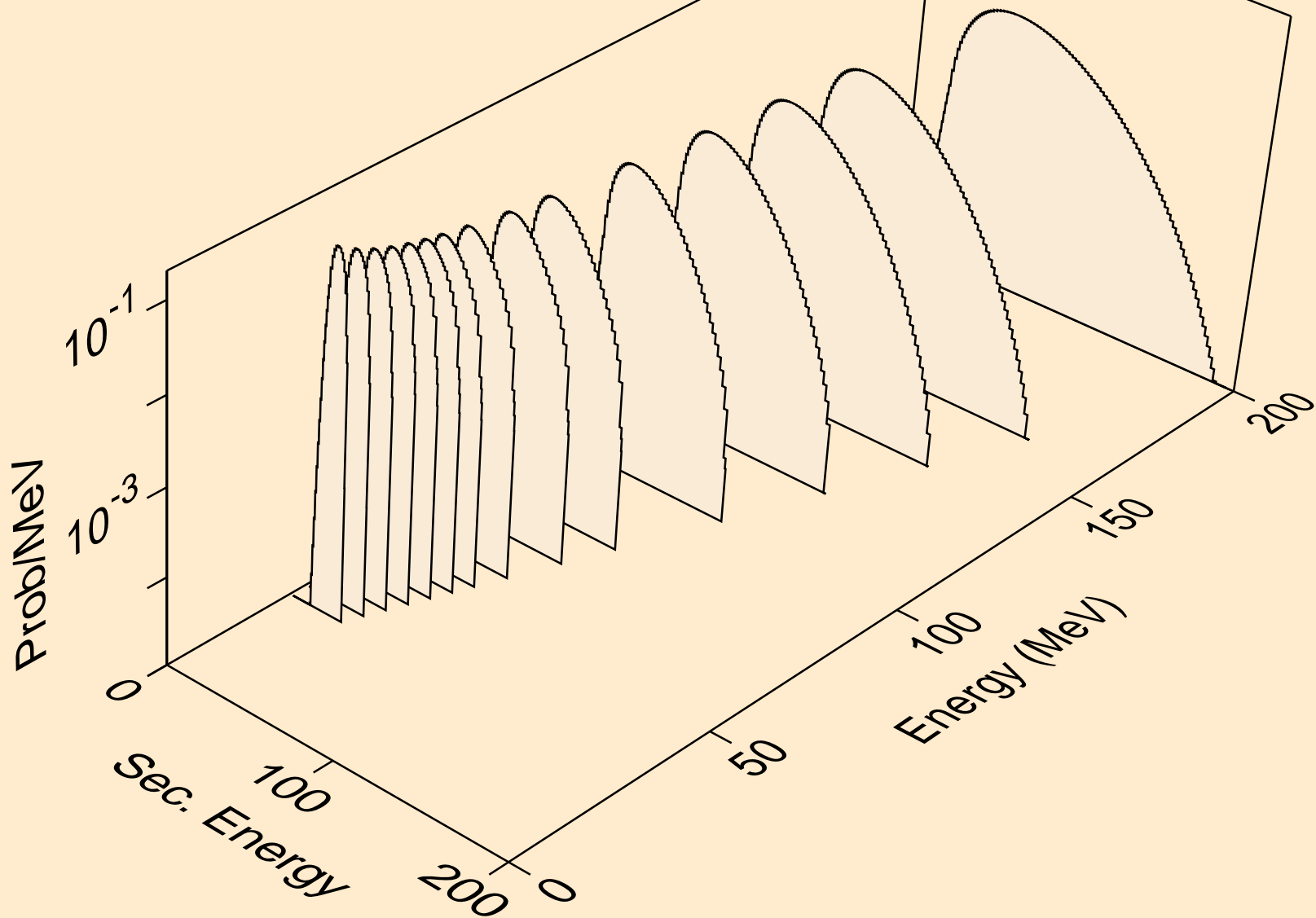
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tritons from (n,t)



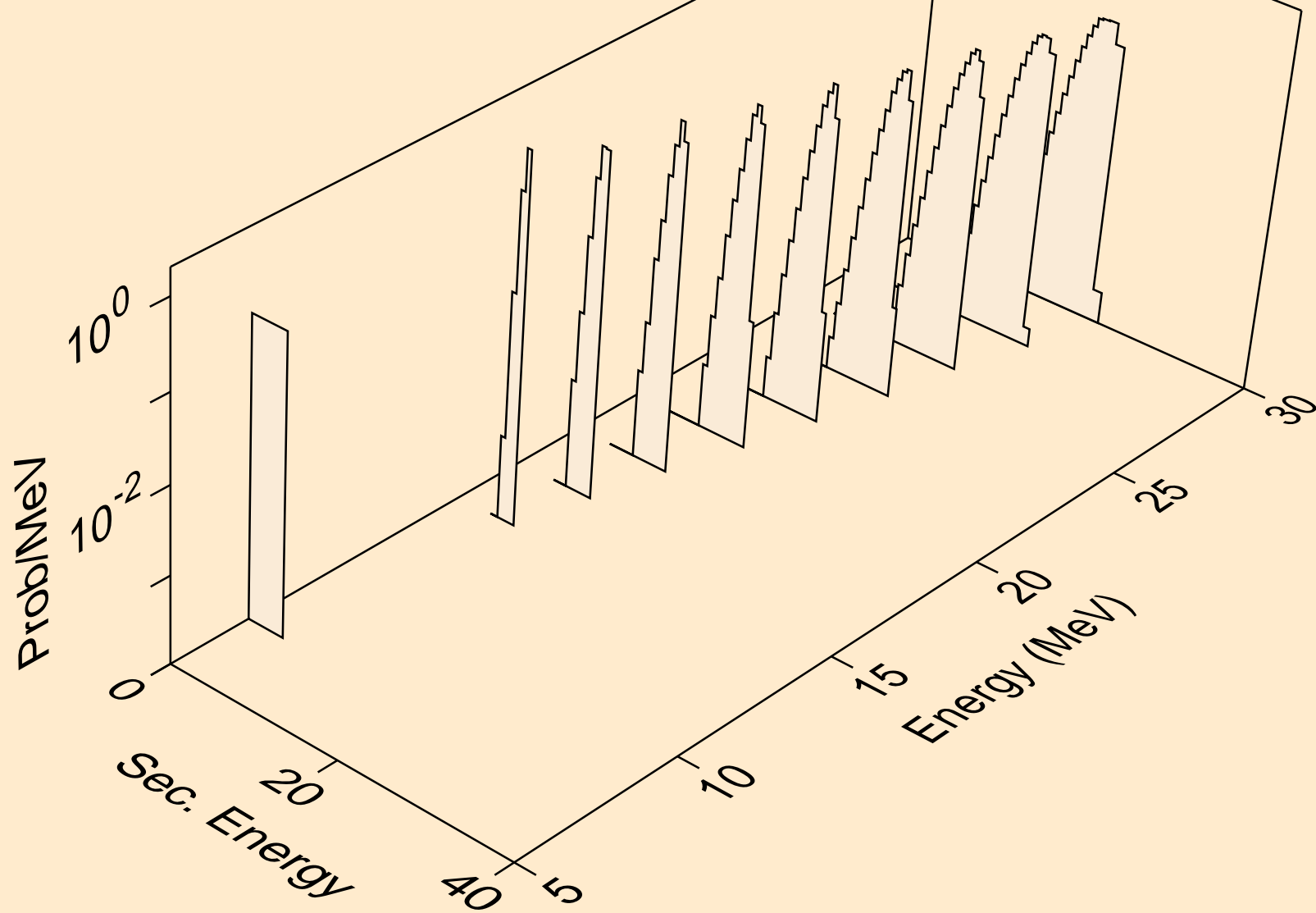
IR177 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
tritons from (n,pt)



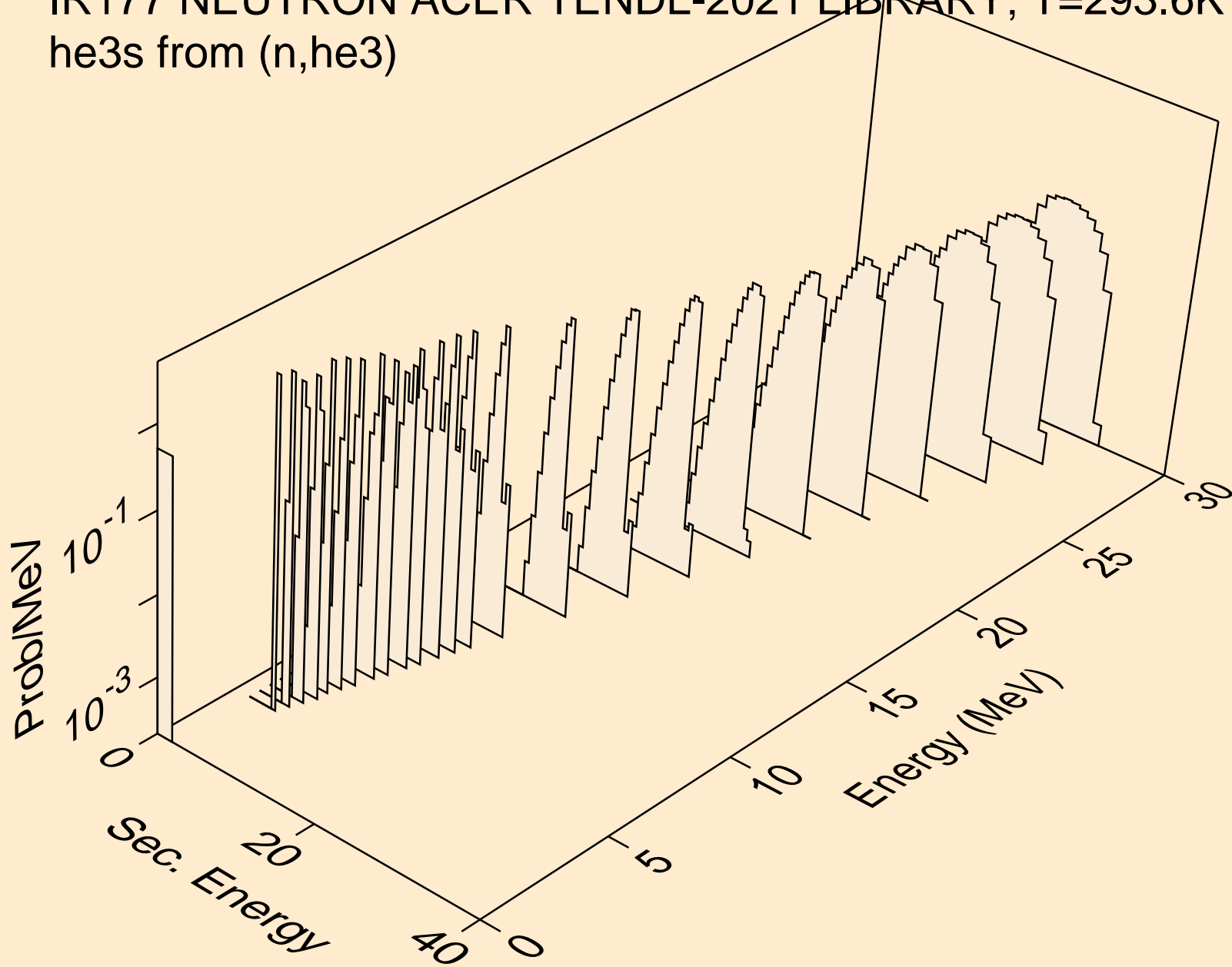
IR177 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
he3s from (n,x)



IR177 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
he3s from (n,n\*)he3

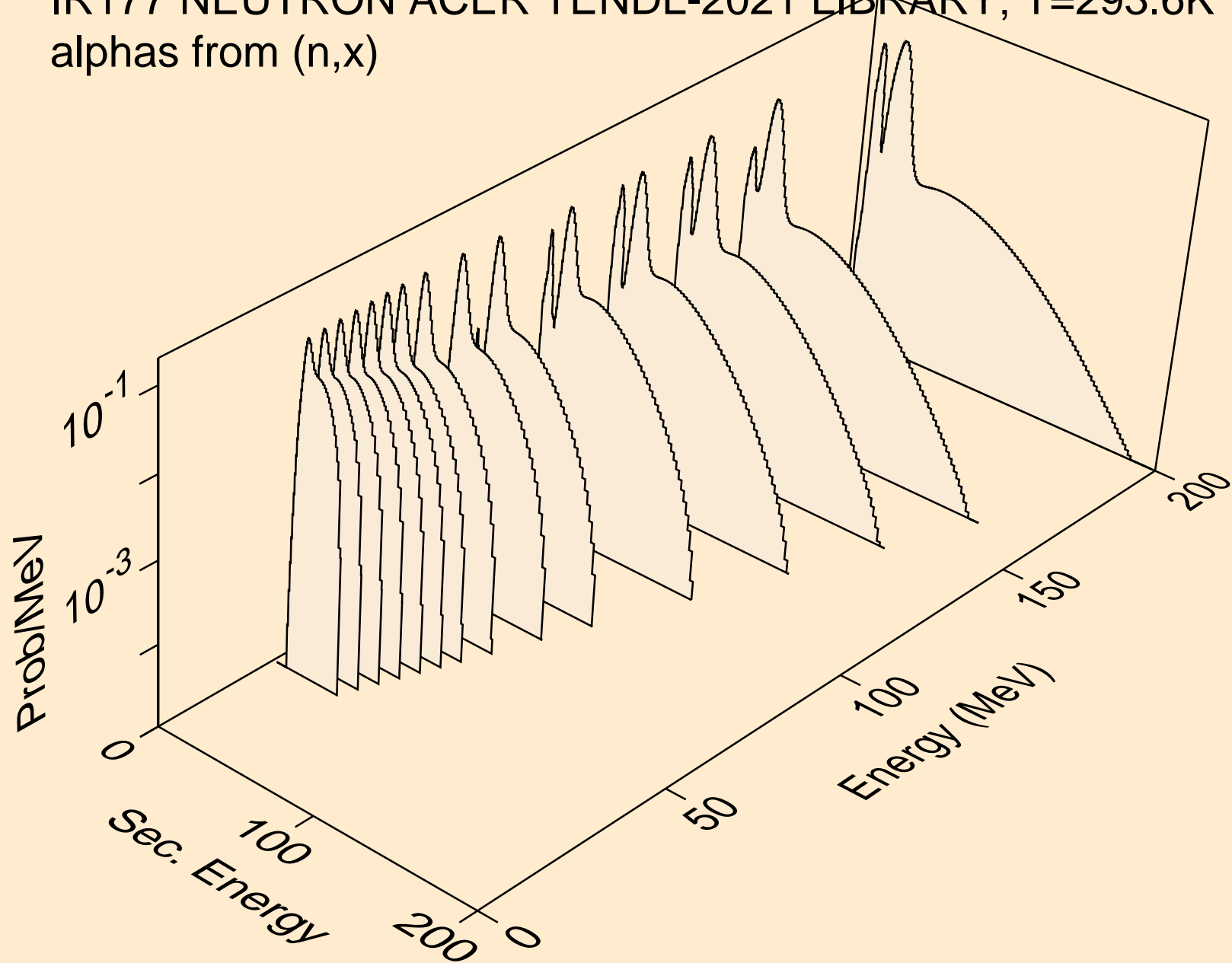


IR177 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
he3s from (n,he3)

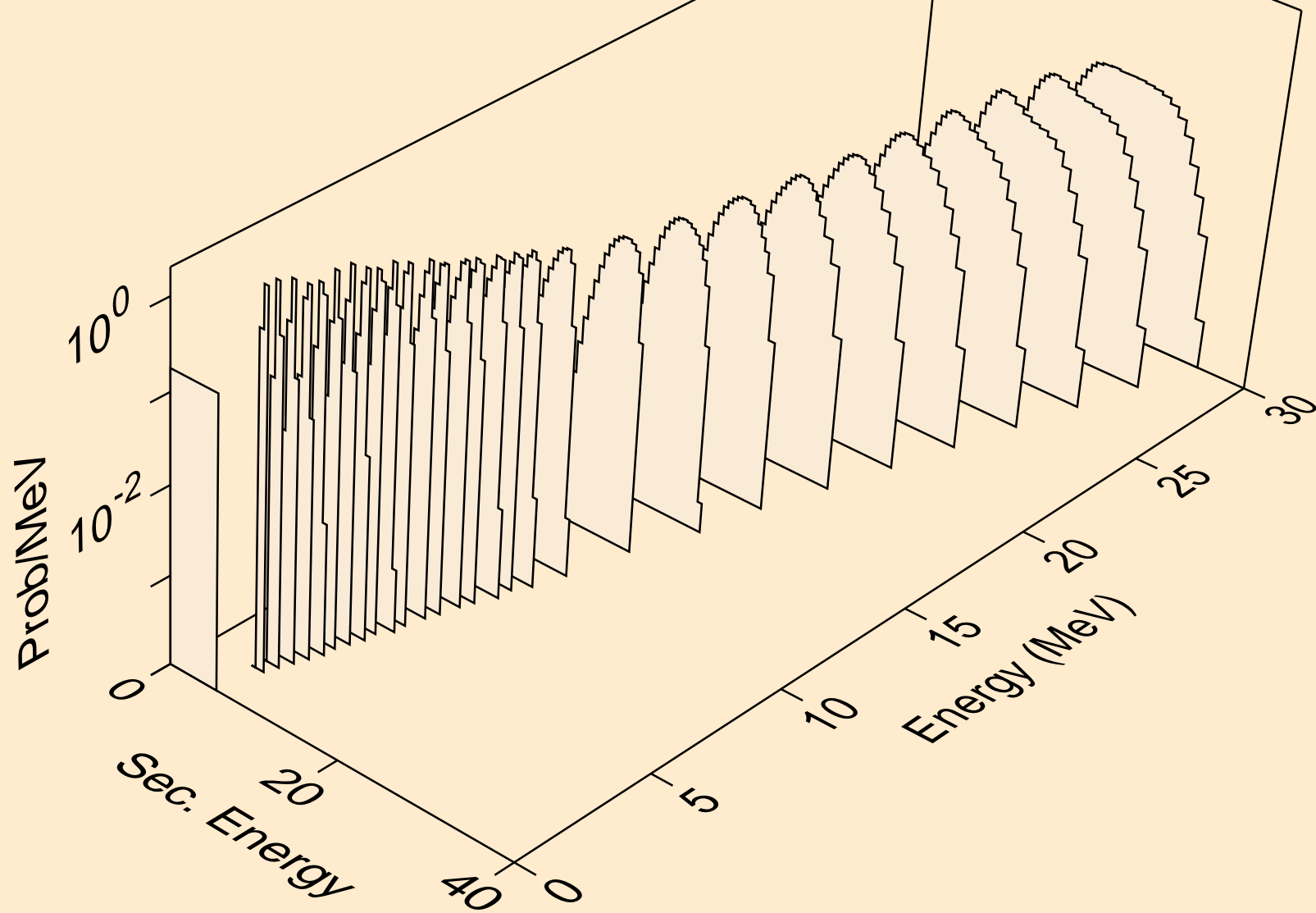




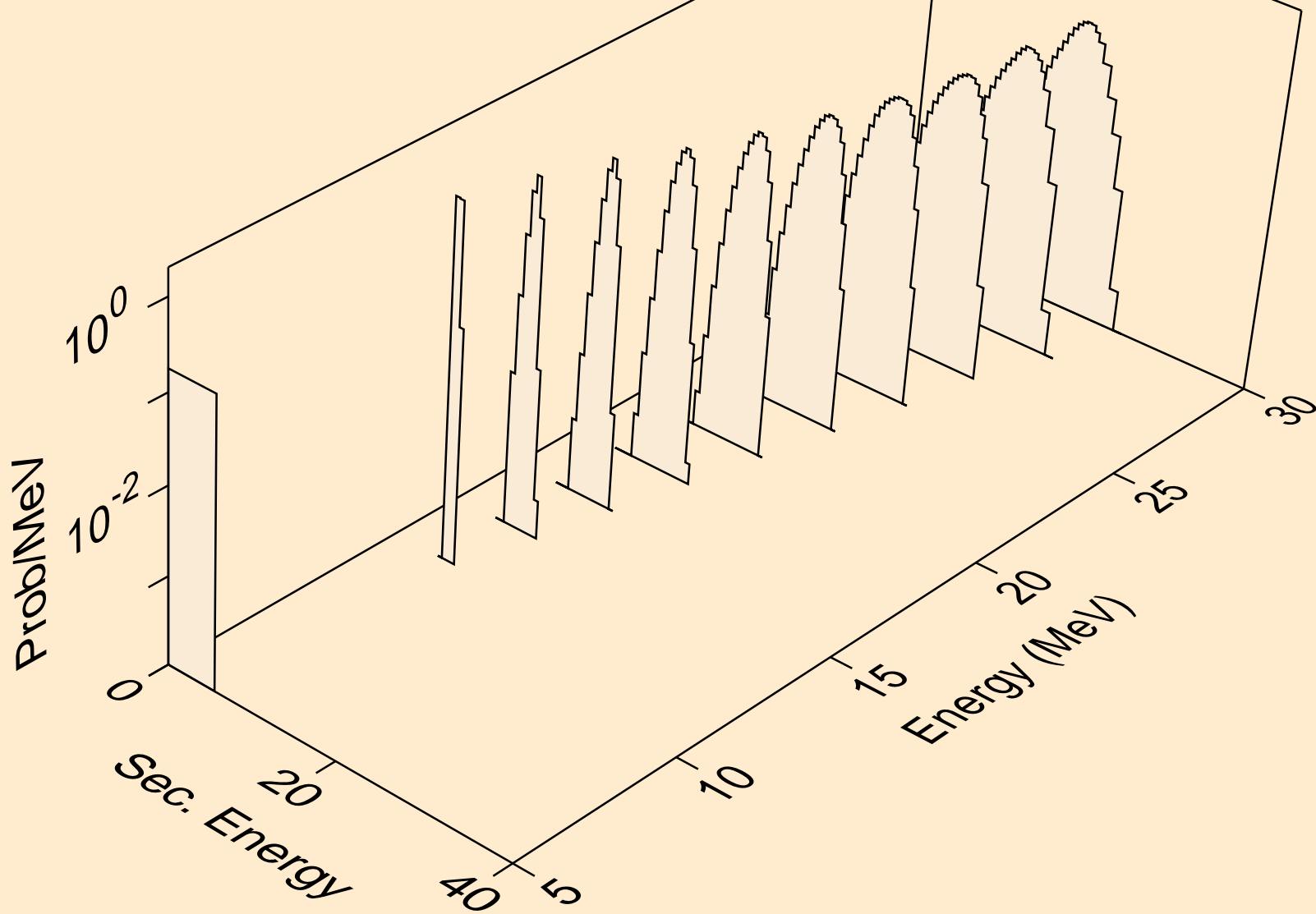
IR177 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
alphas from (n,x)



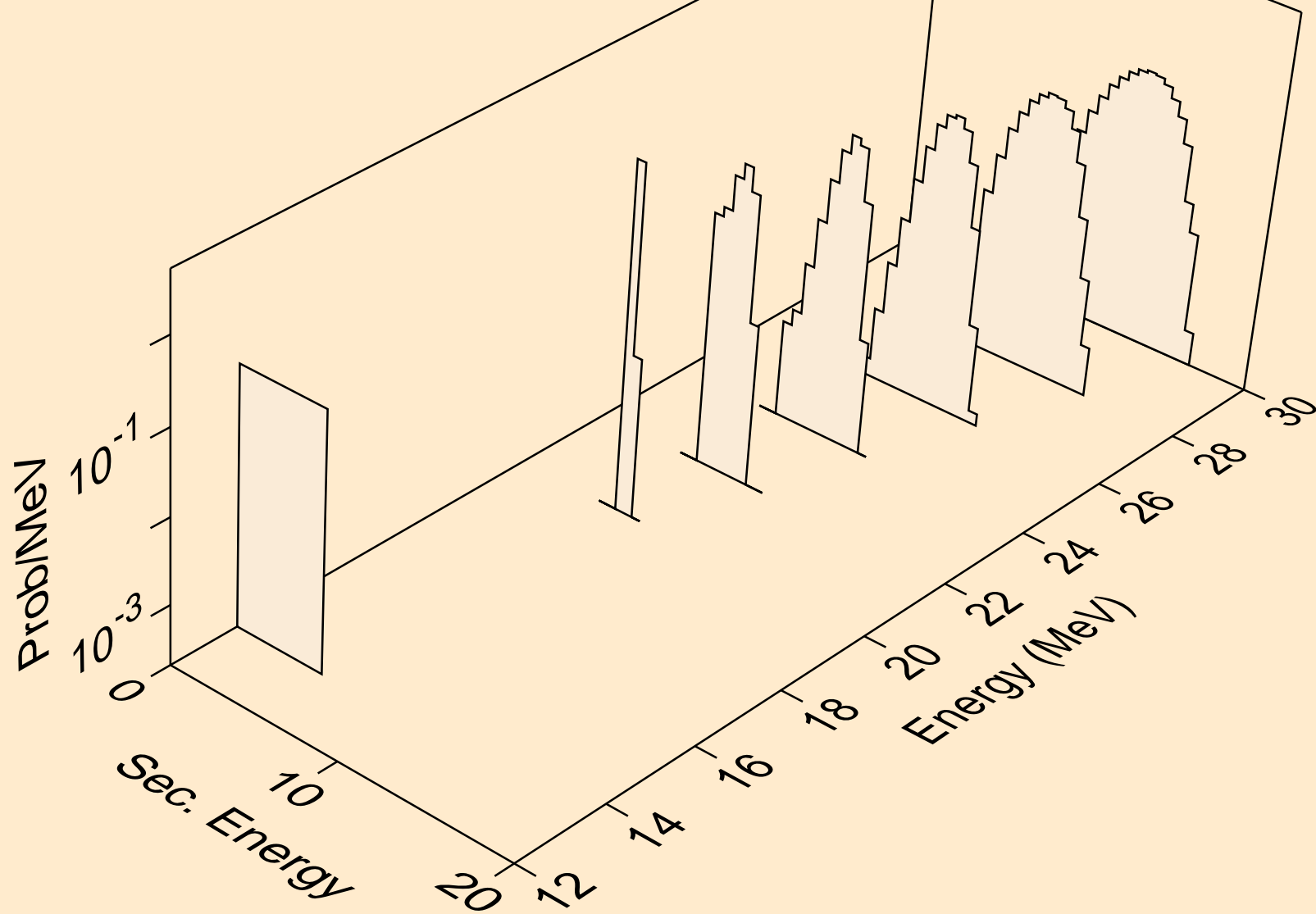
IR177 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
alphas from (n,n\*)a



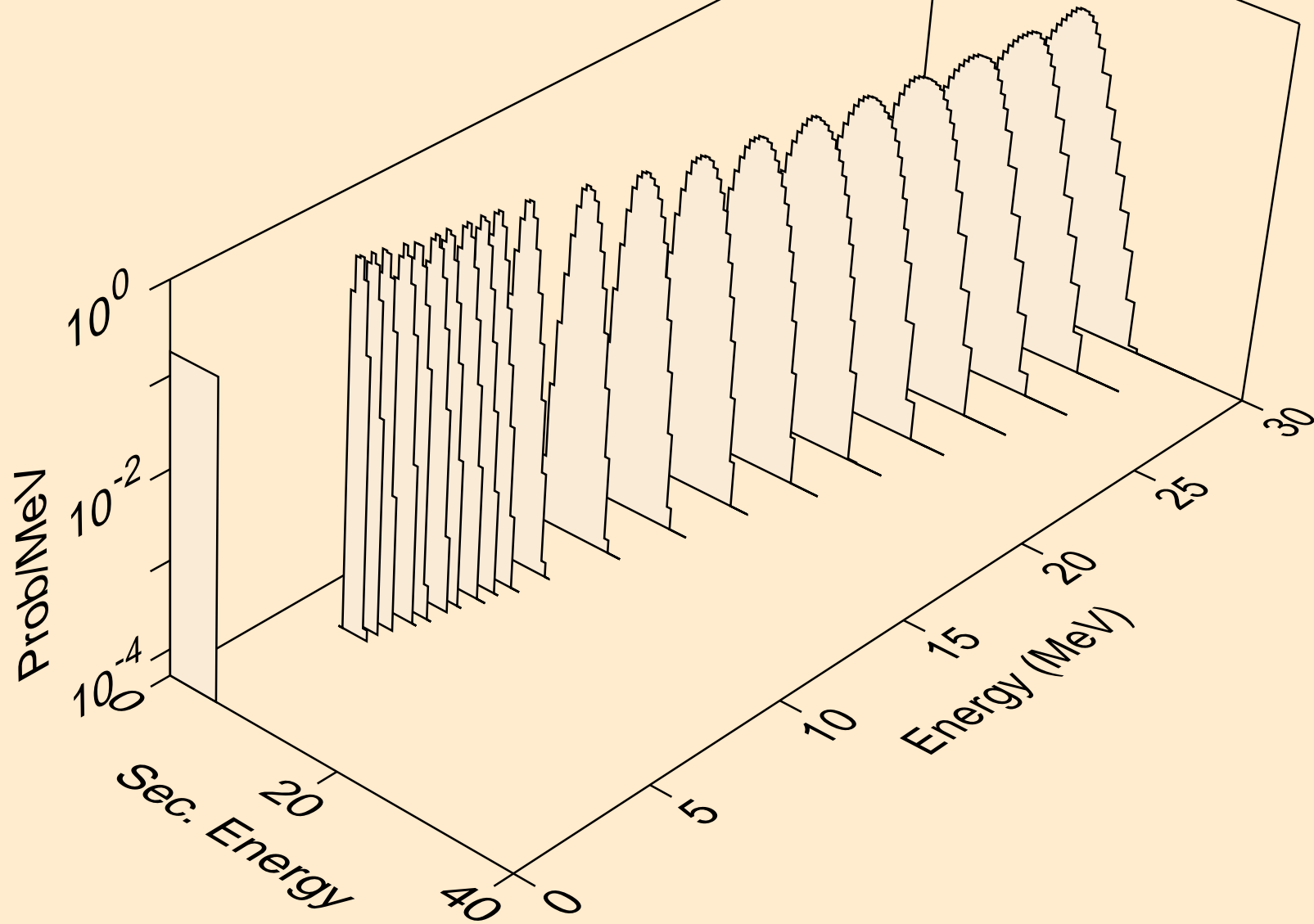
IR177 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
alphas from (n,2n)a



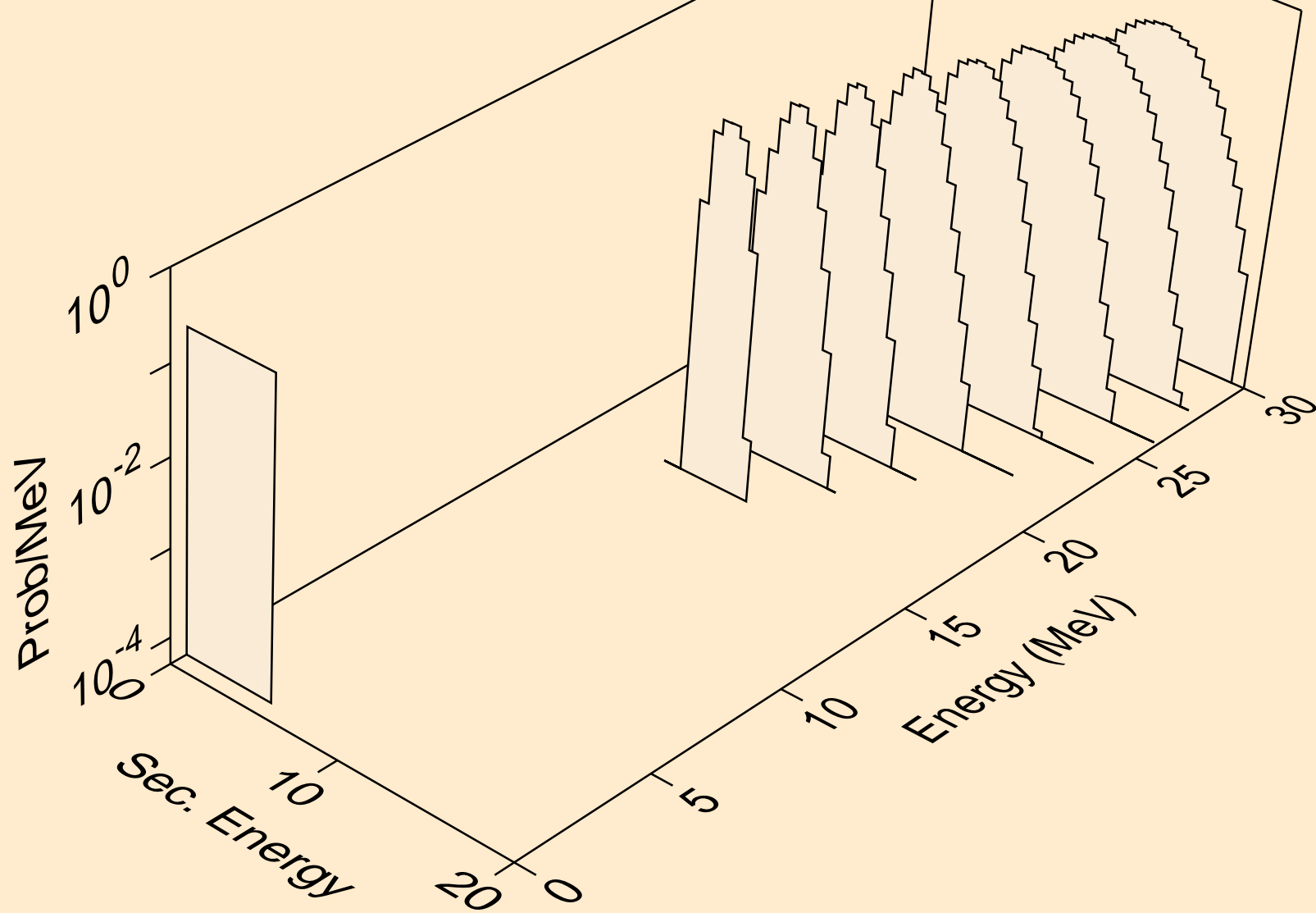
IR177 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
alphas from (n,3n)a



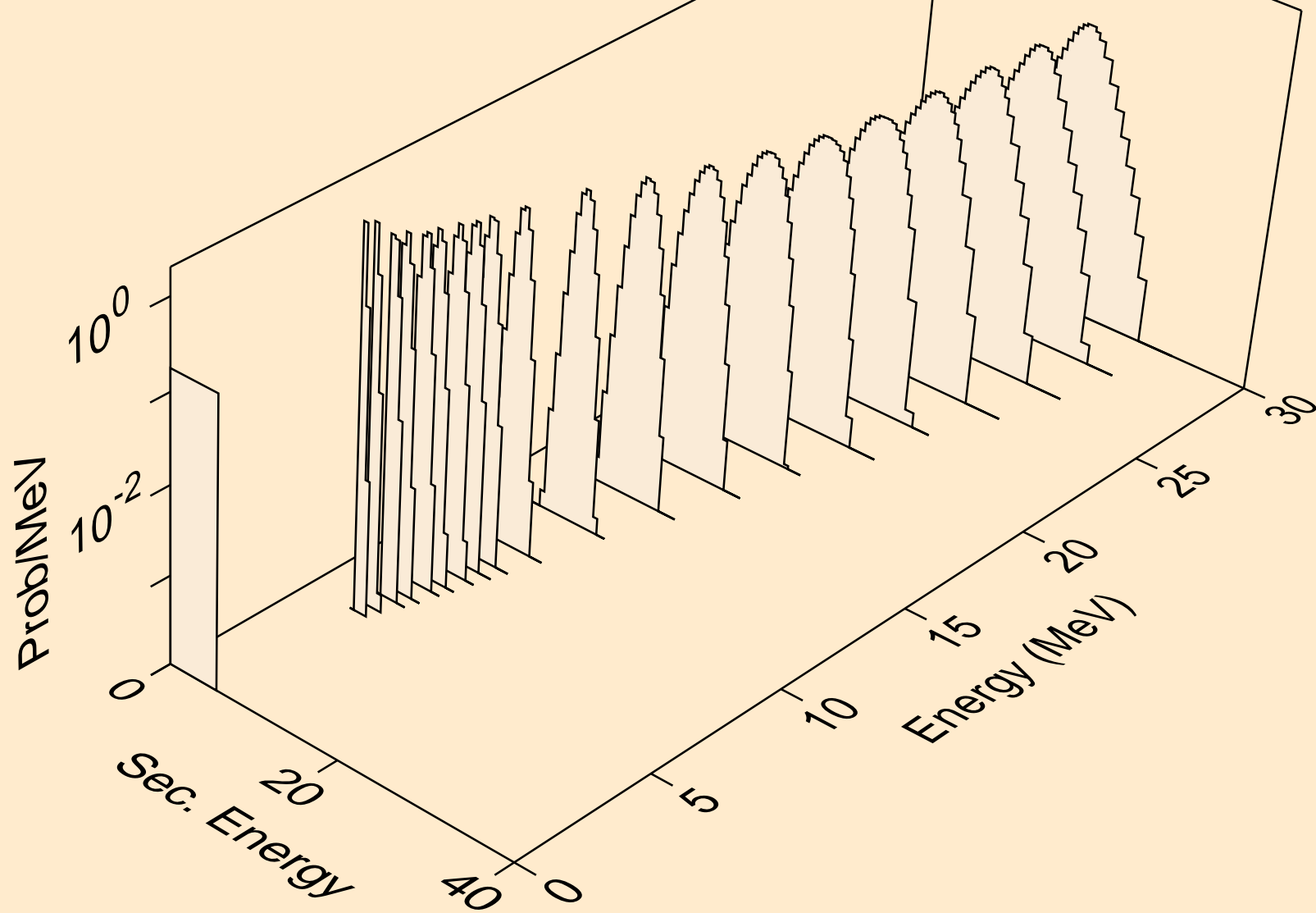
IR177 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
alphas from (n,n\*)2a



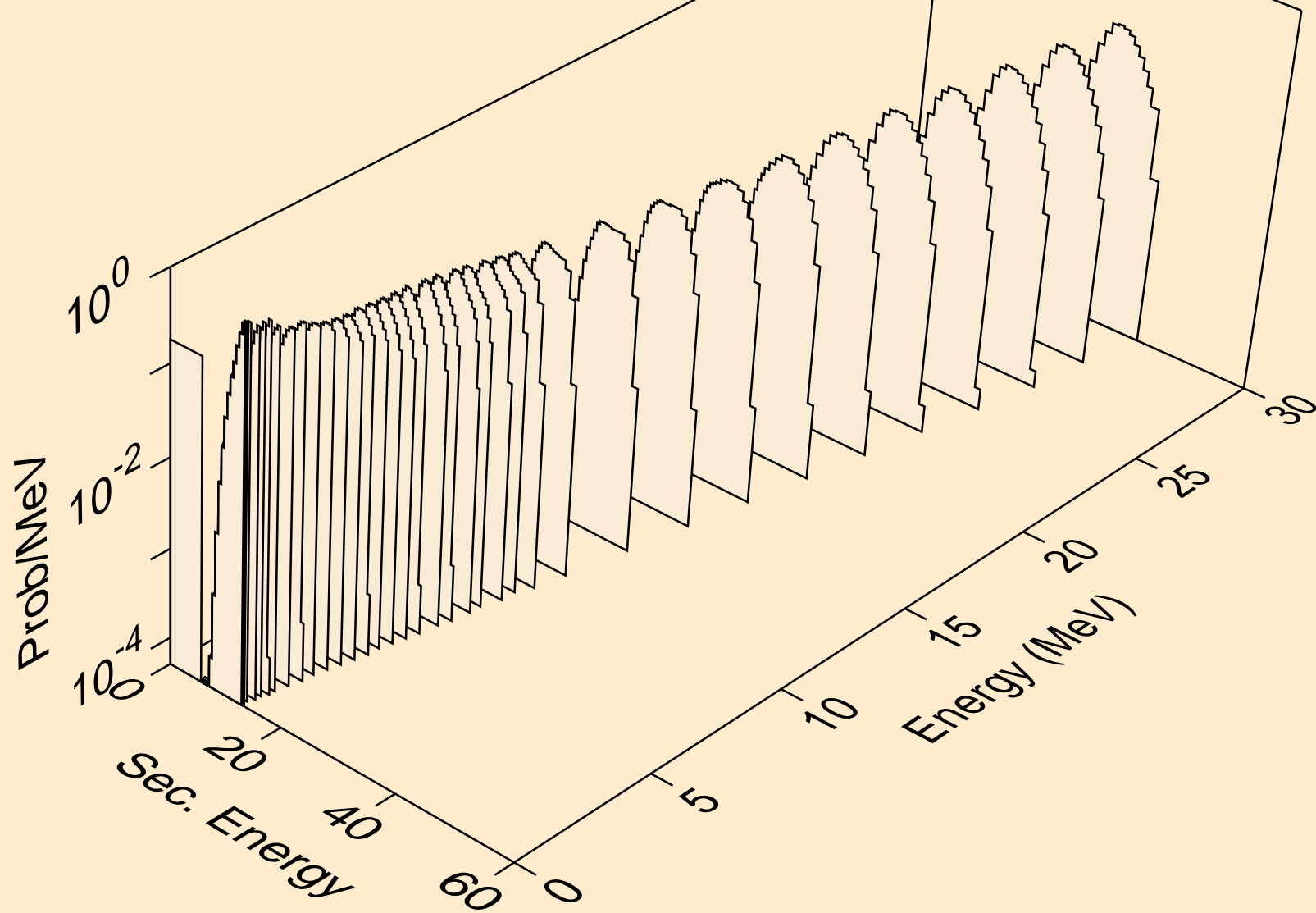
IR177 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
alphas from (n,2n)2a



IR177 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
alphas from (n,npa)

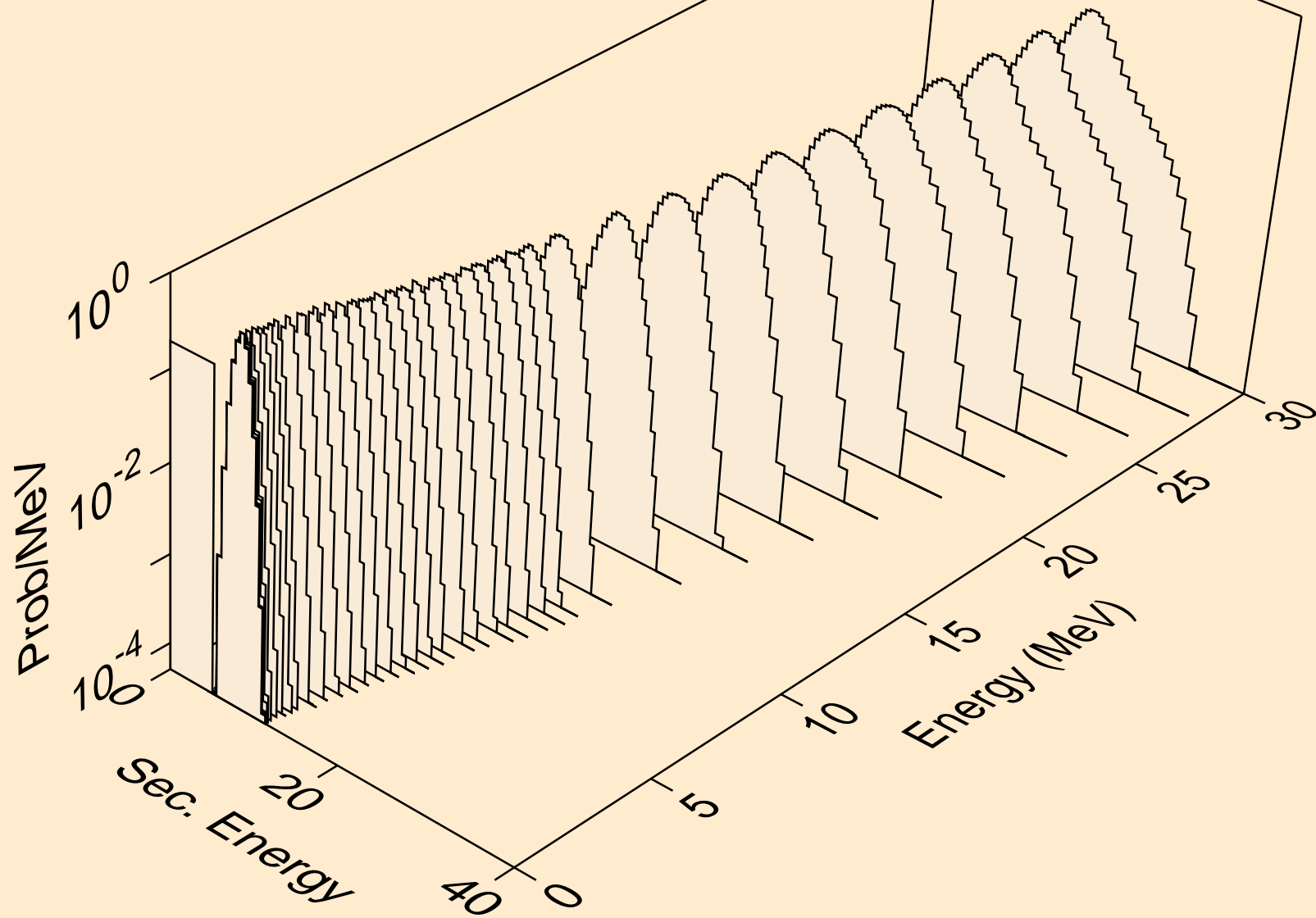


IR177 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
alphas from (n,a)

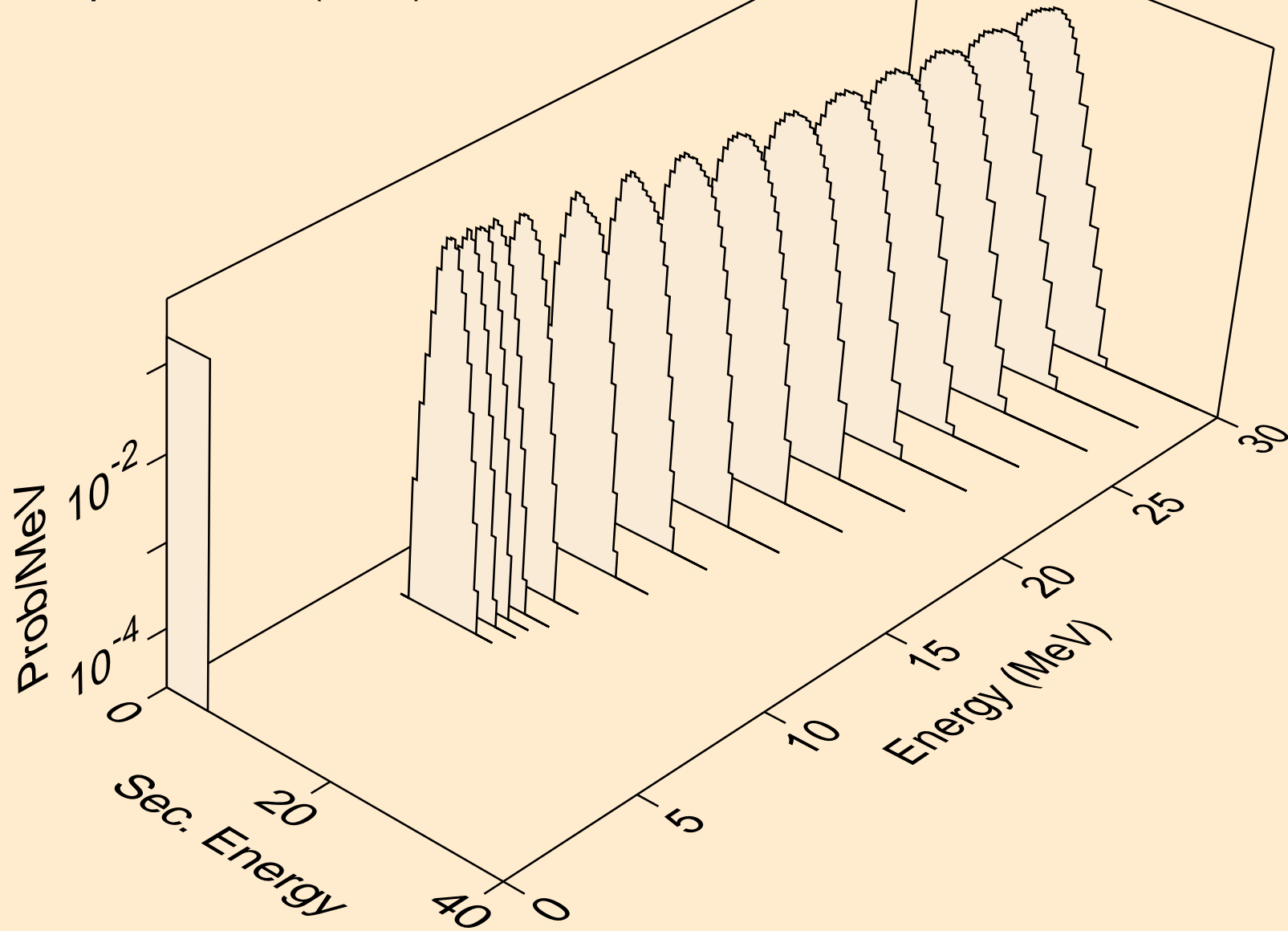




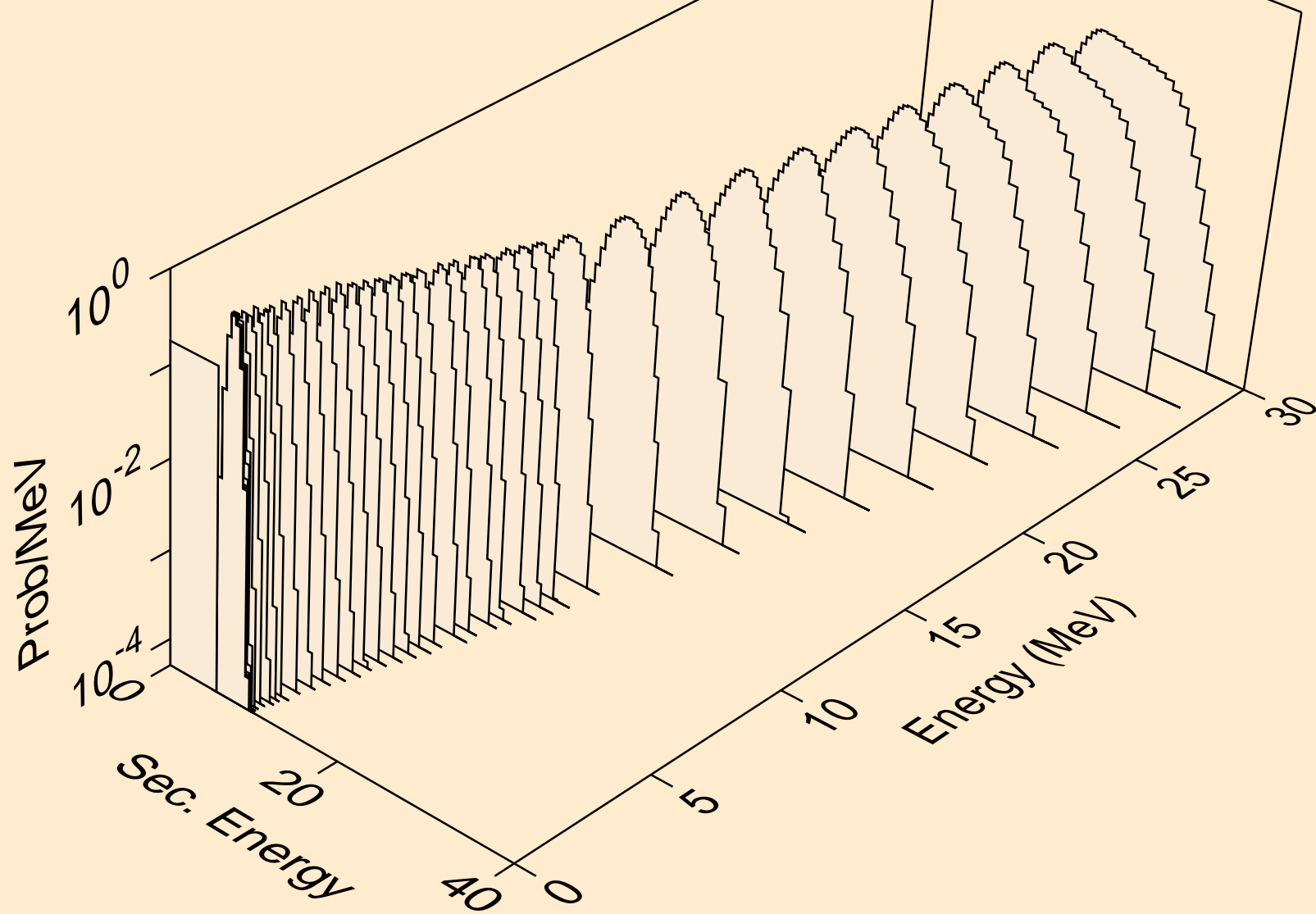
IR177 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
alphas from (n,2a)



IR177 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
alphas from (n,3a)



IR177 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
alphas from (n,pa)



IR177 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
alphas from (n,da)

