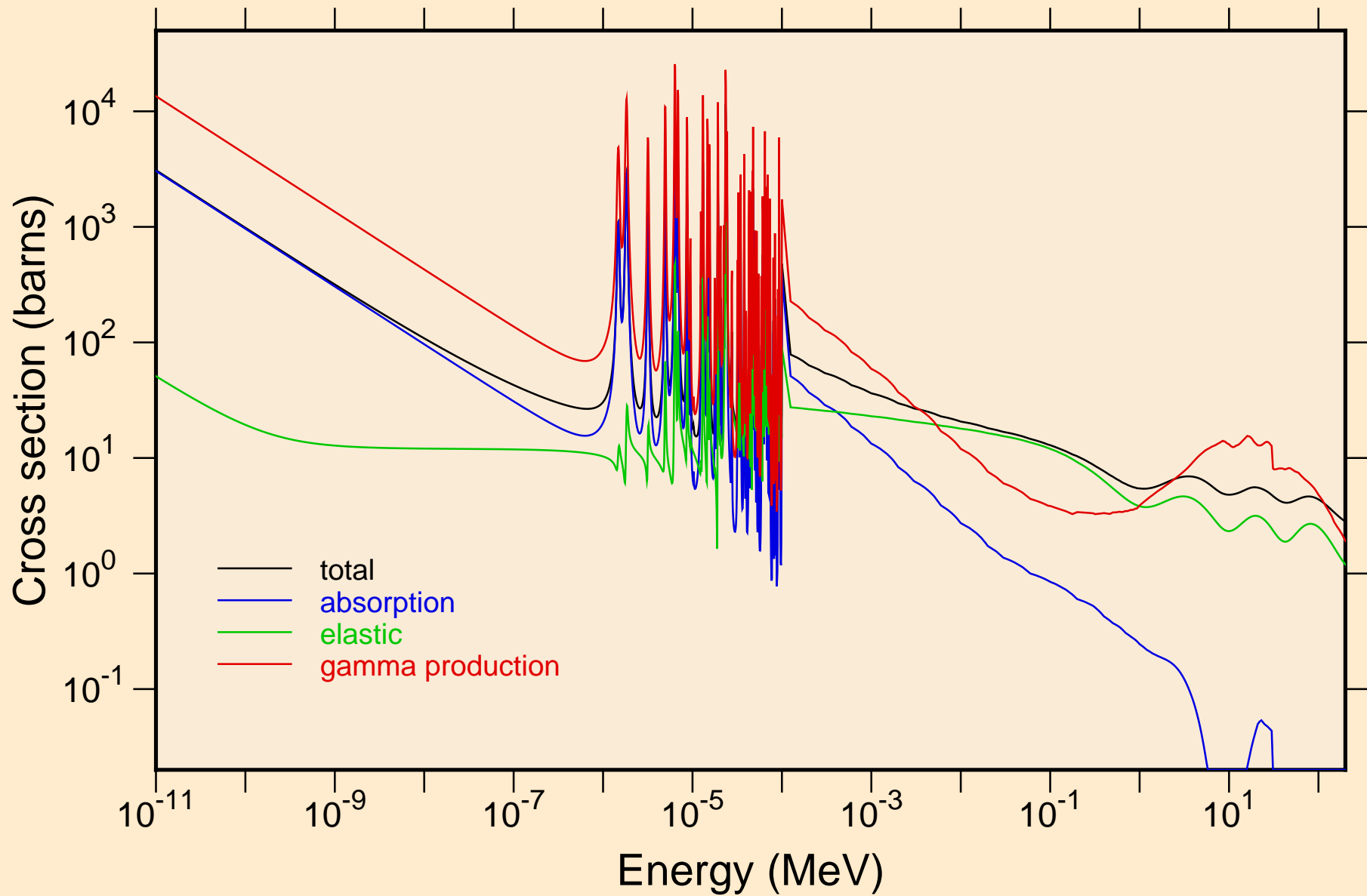
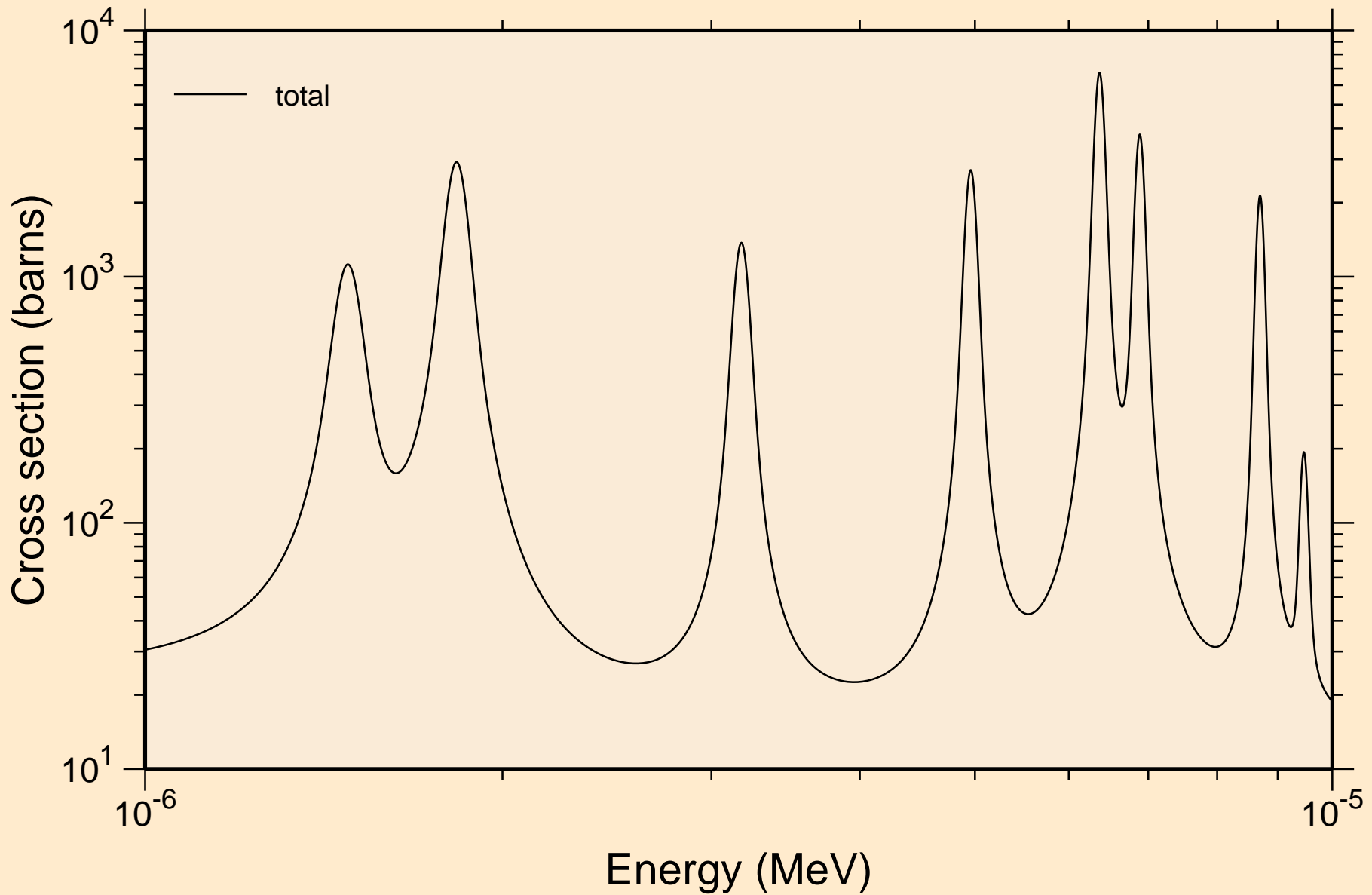


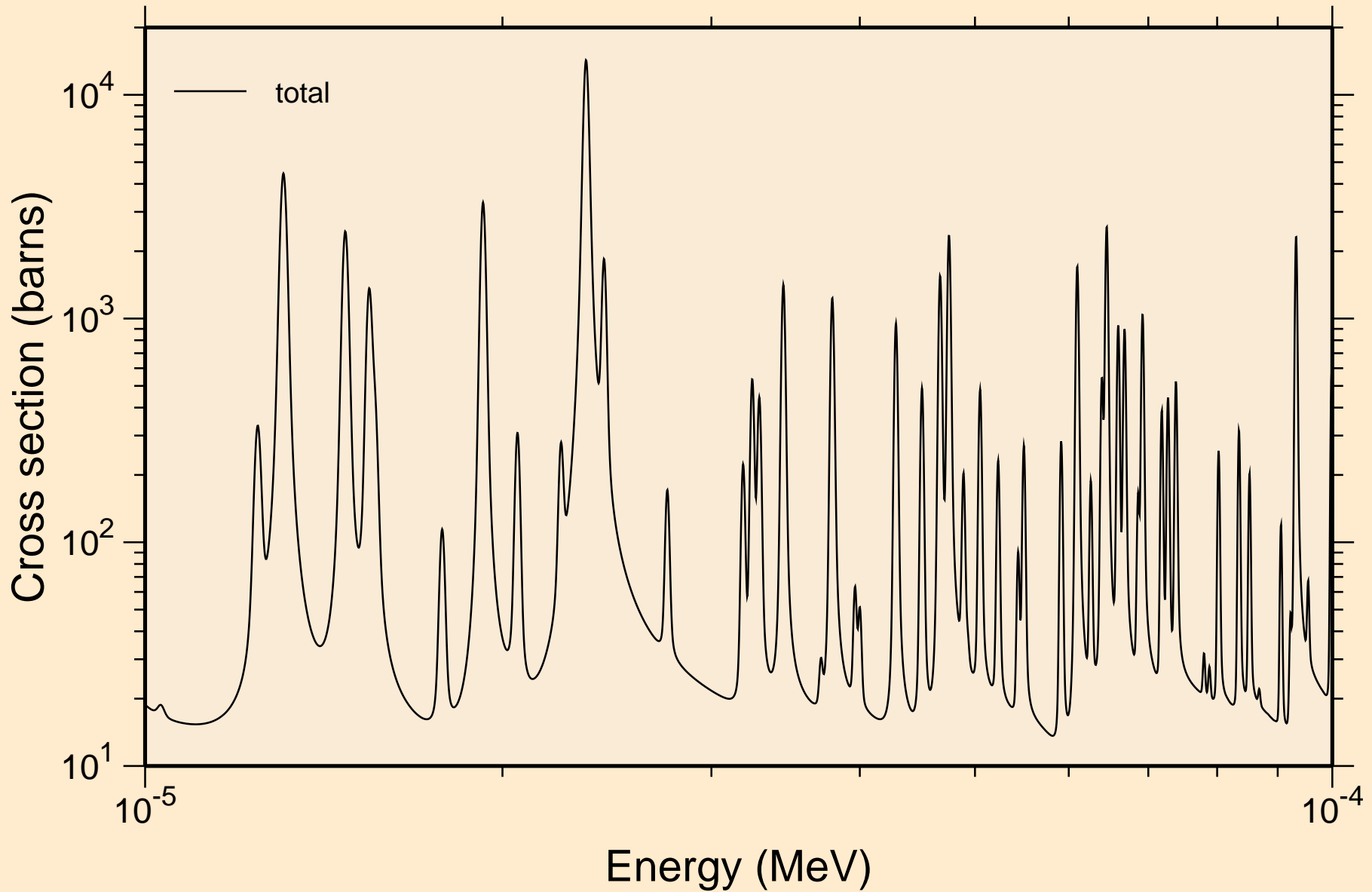
IR189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Principal cross sections



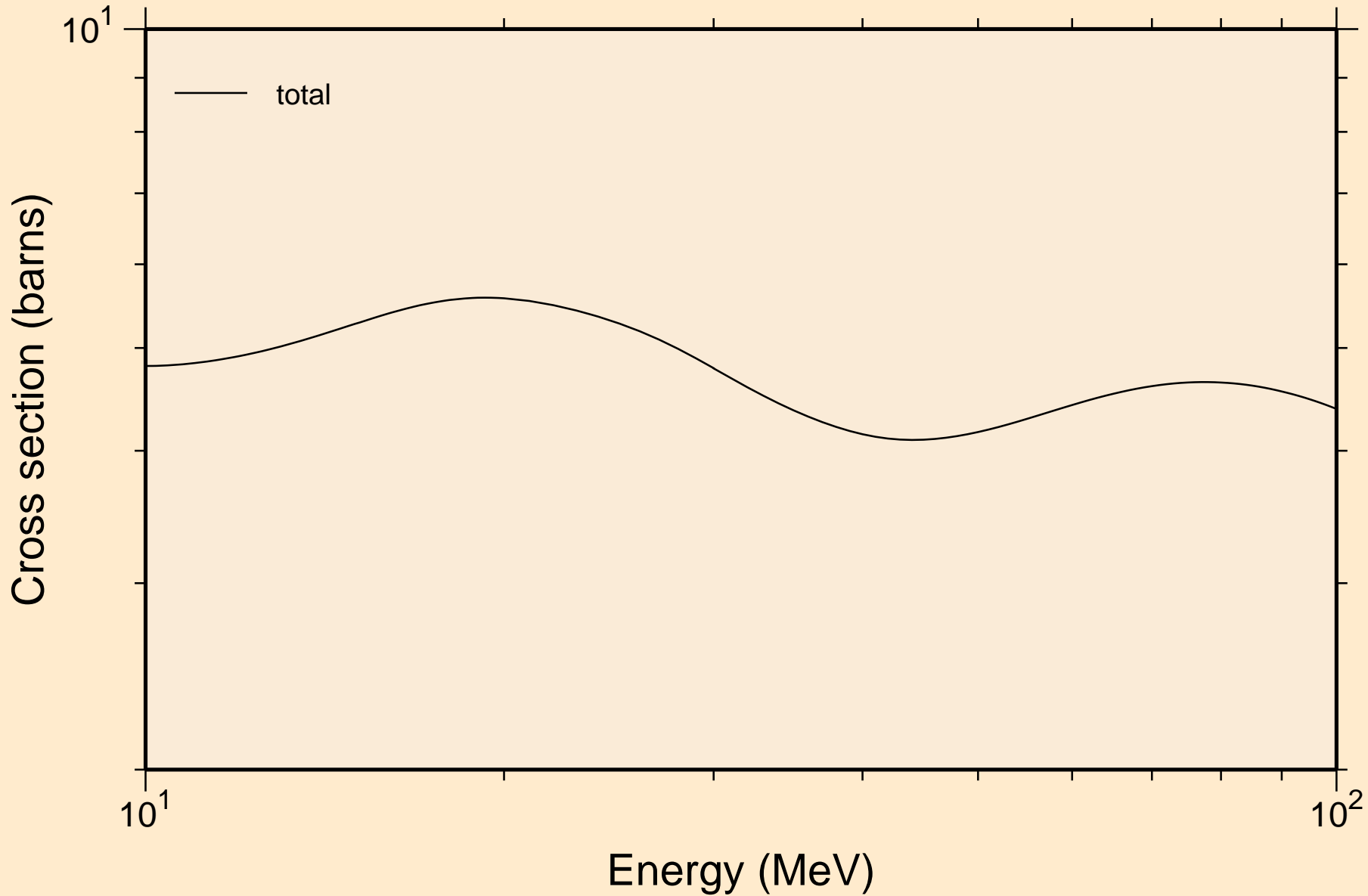
IR189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
resonance total cross section



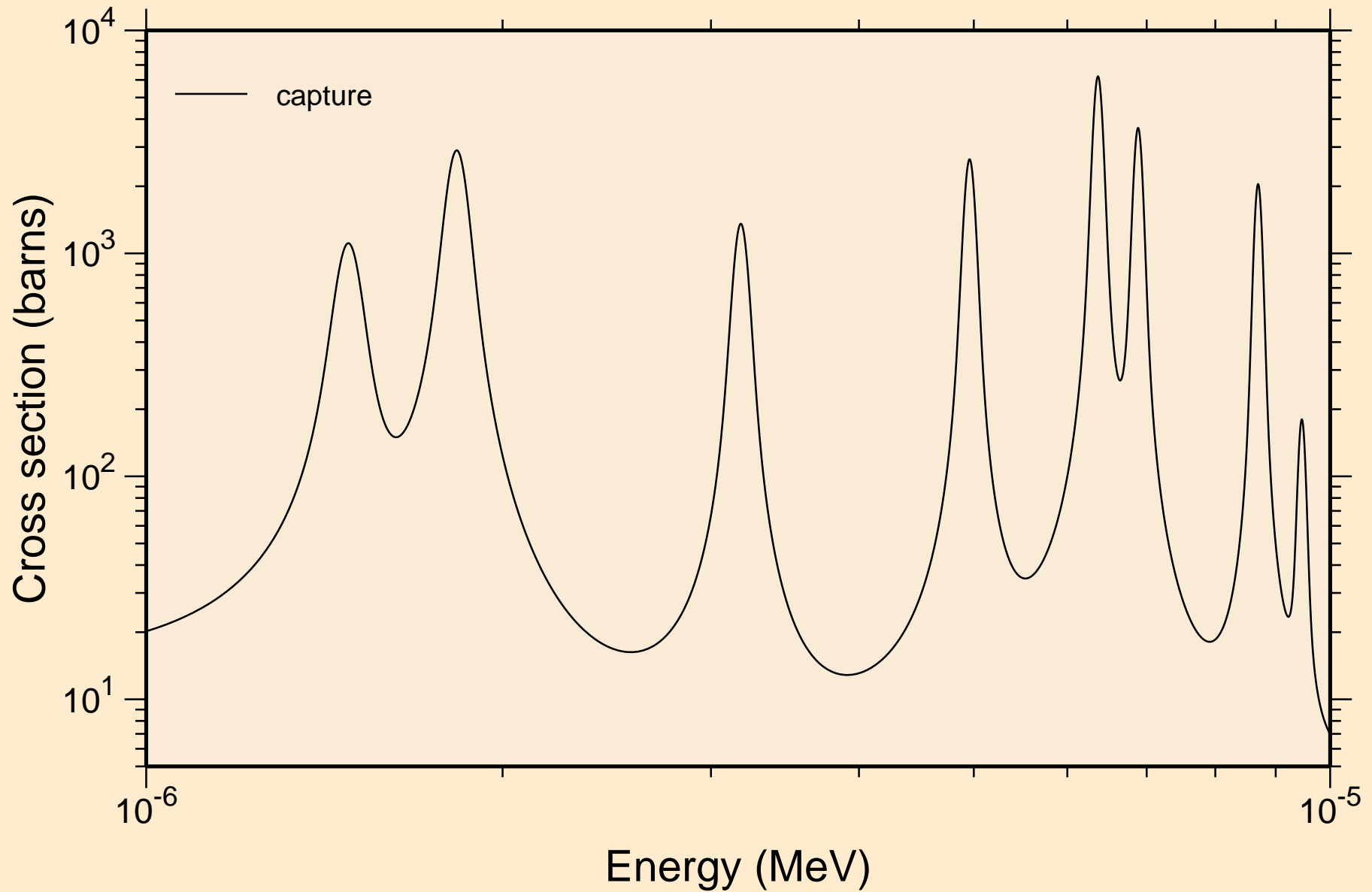
IR189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
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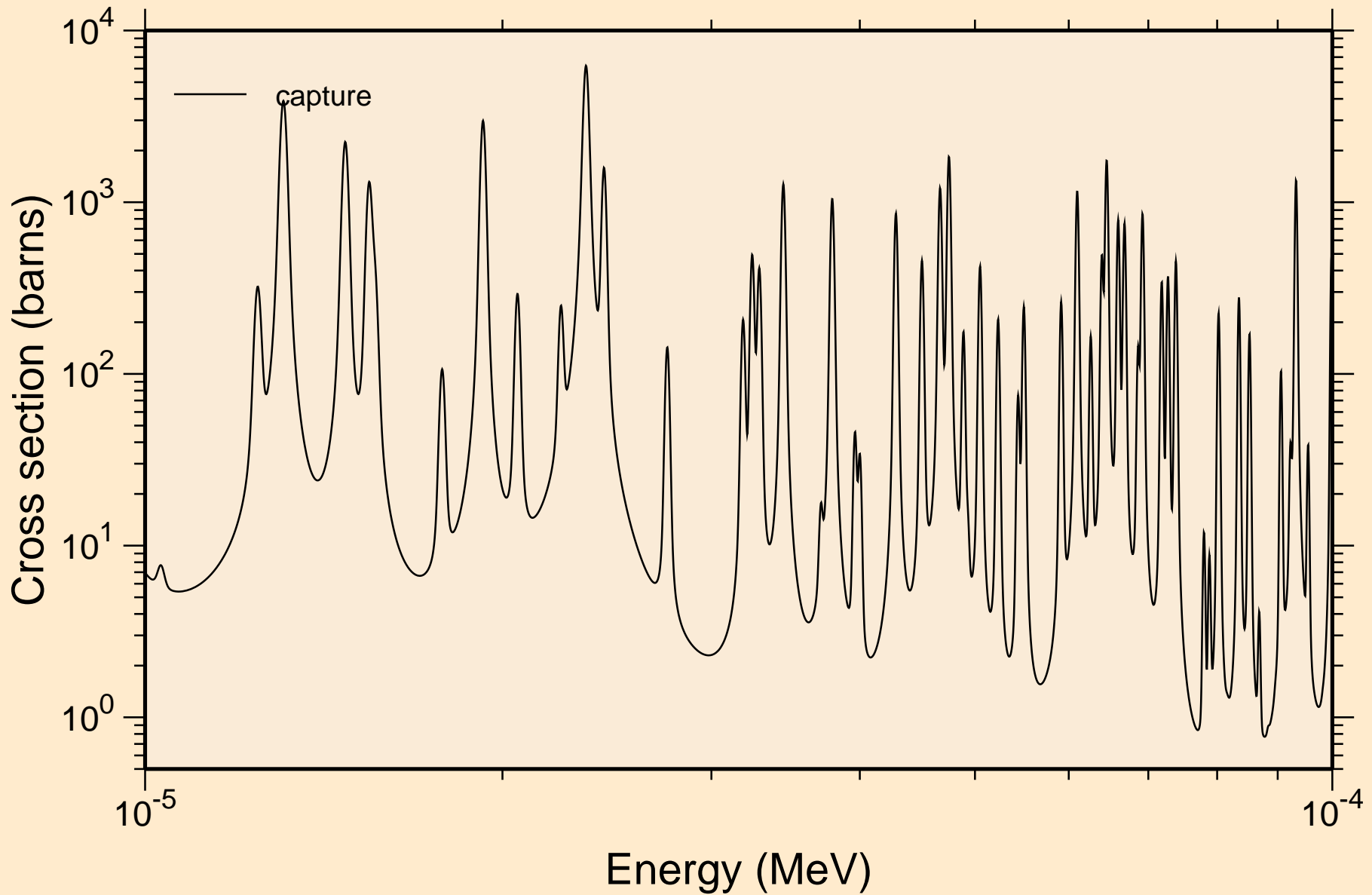
IR189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
resonance total cross section



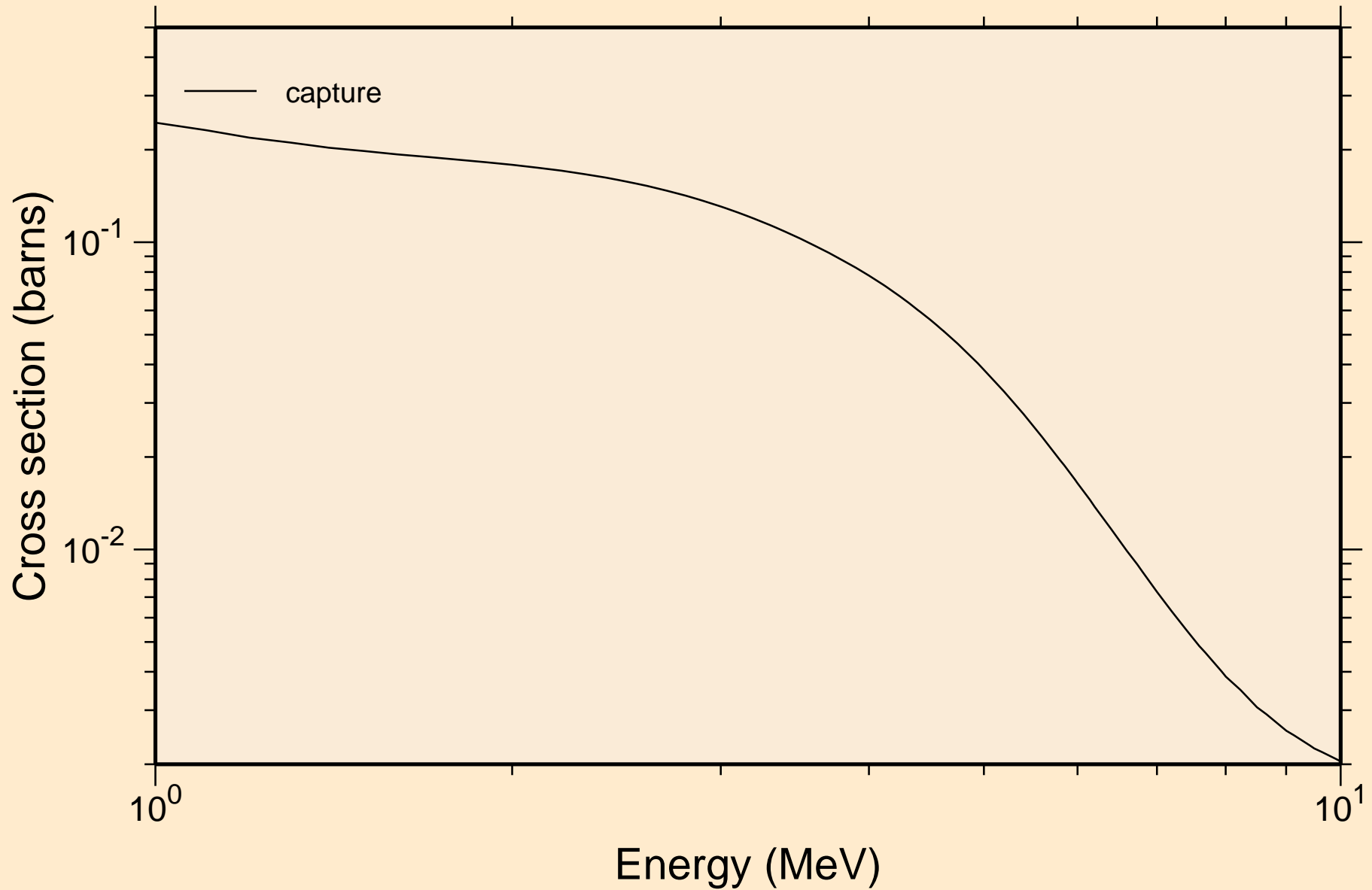
IR189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
resonance absorption cross sections



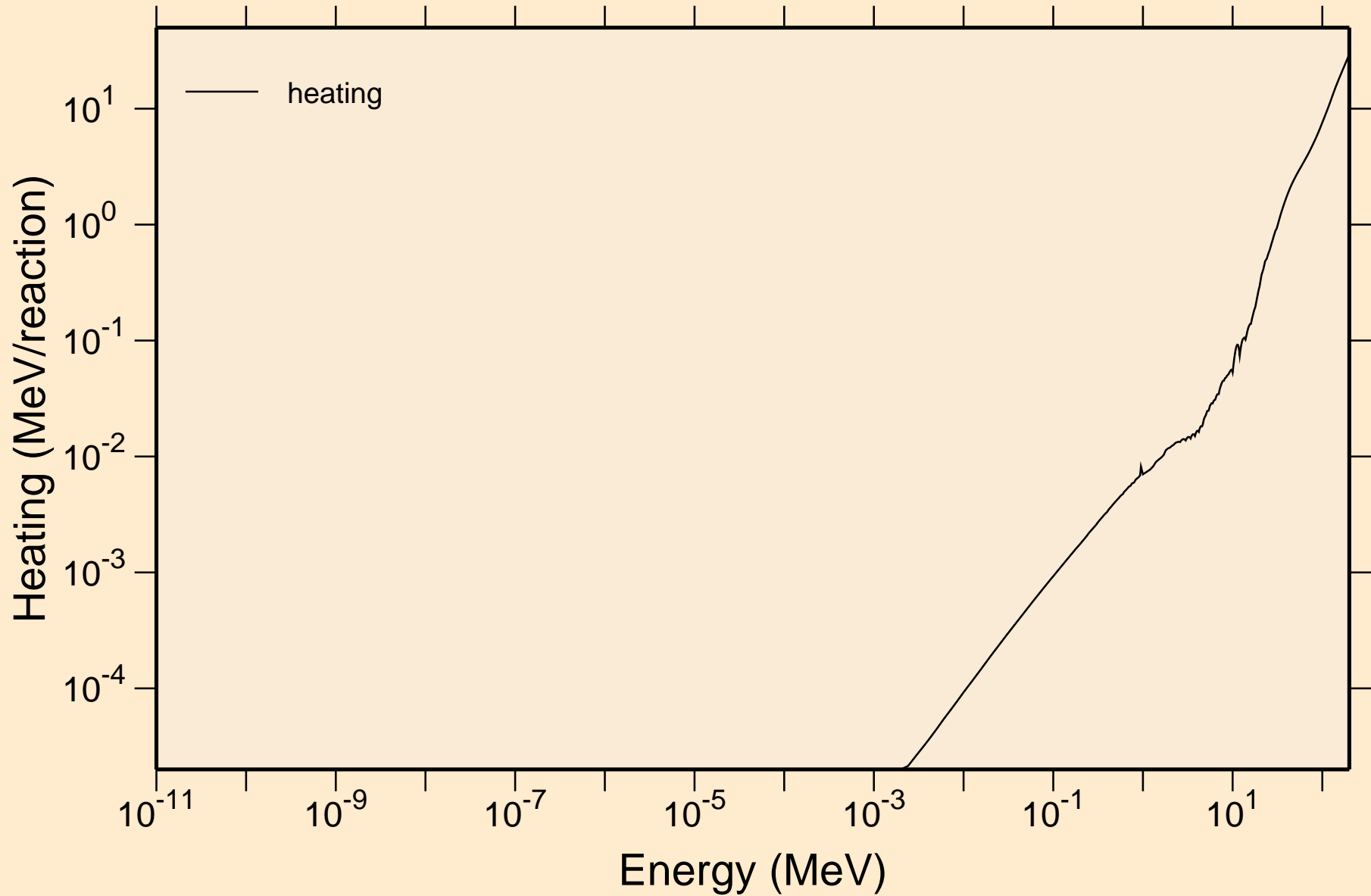
IR189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
resonance absorption cross sections



IR189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
resonance absorption cross sections

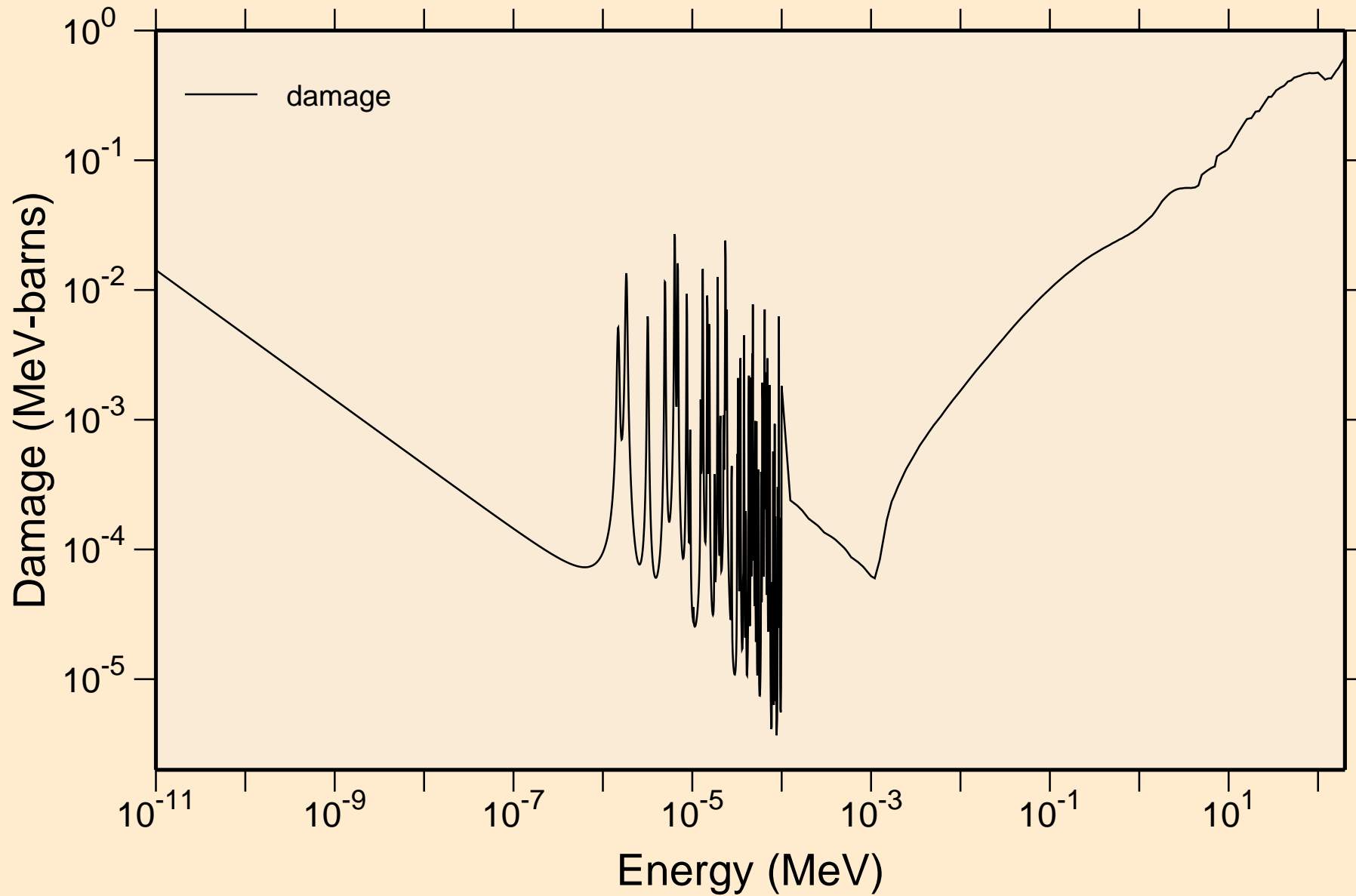


IR189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Heating



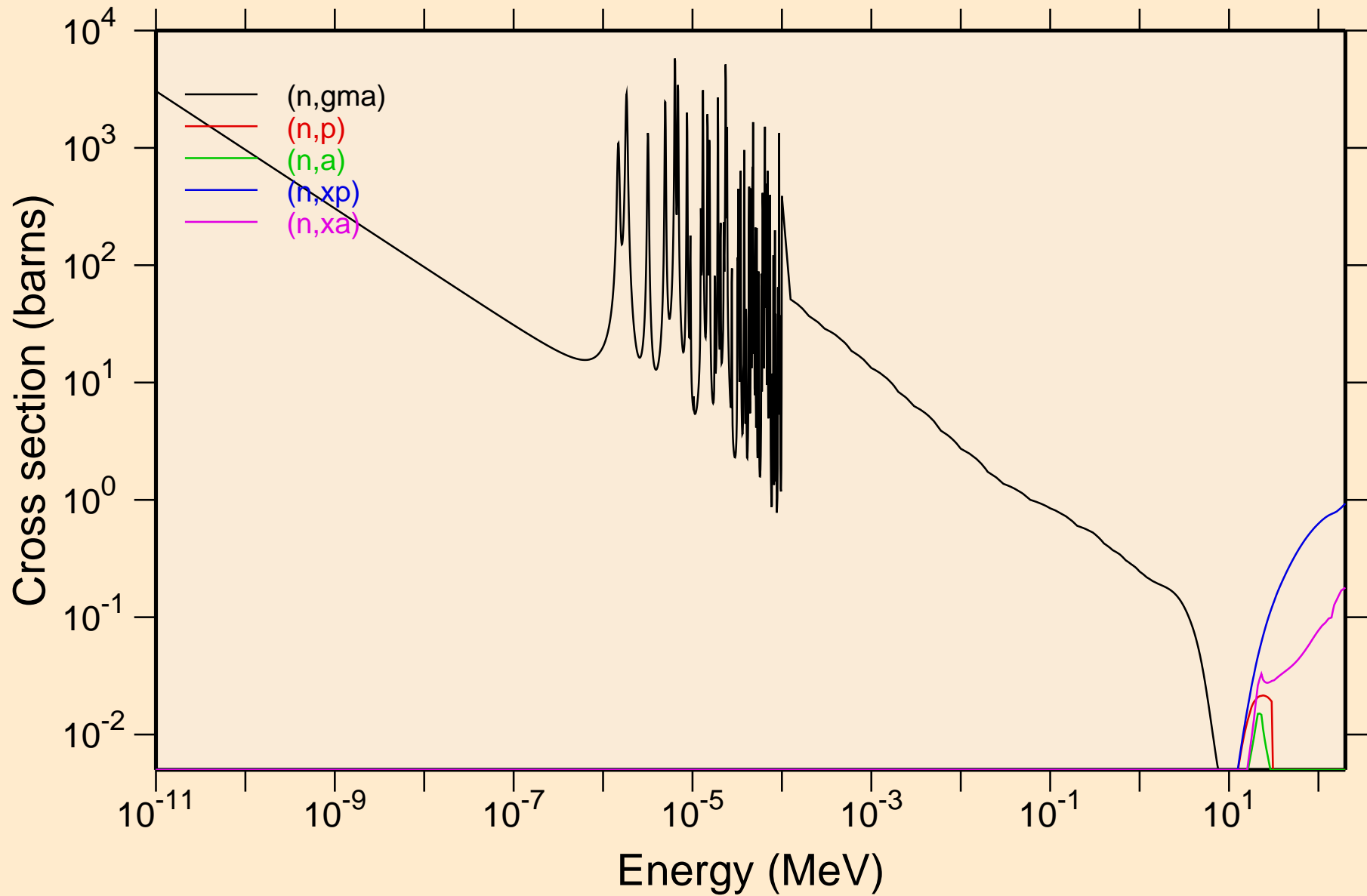


IR189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Damage

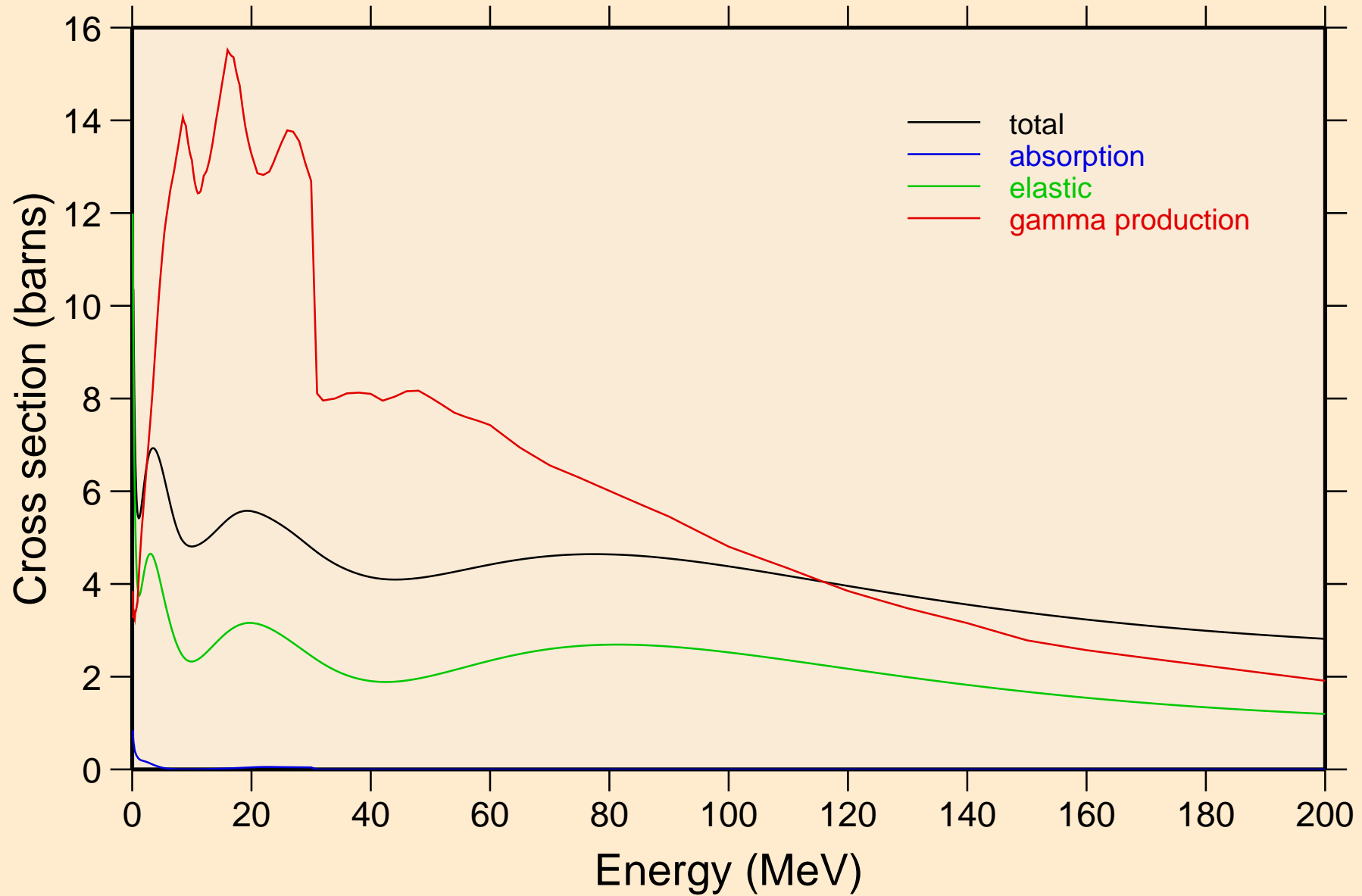


# IR189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K

## Non-threshold reactions

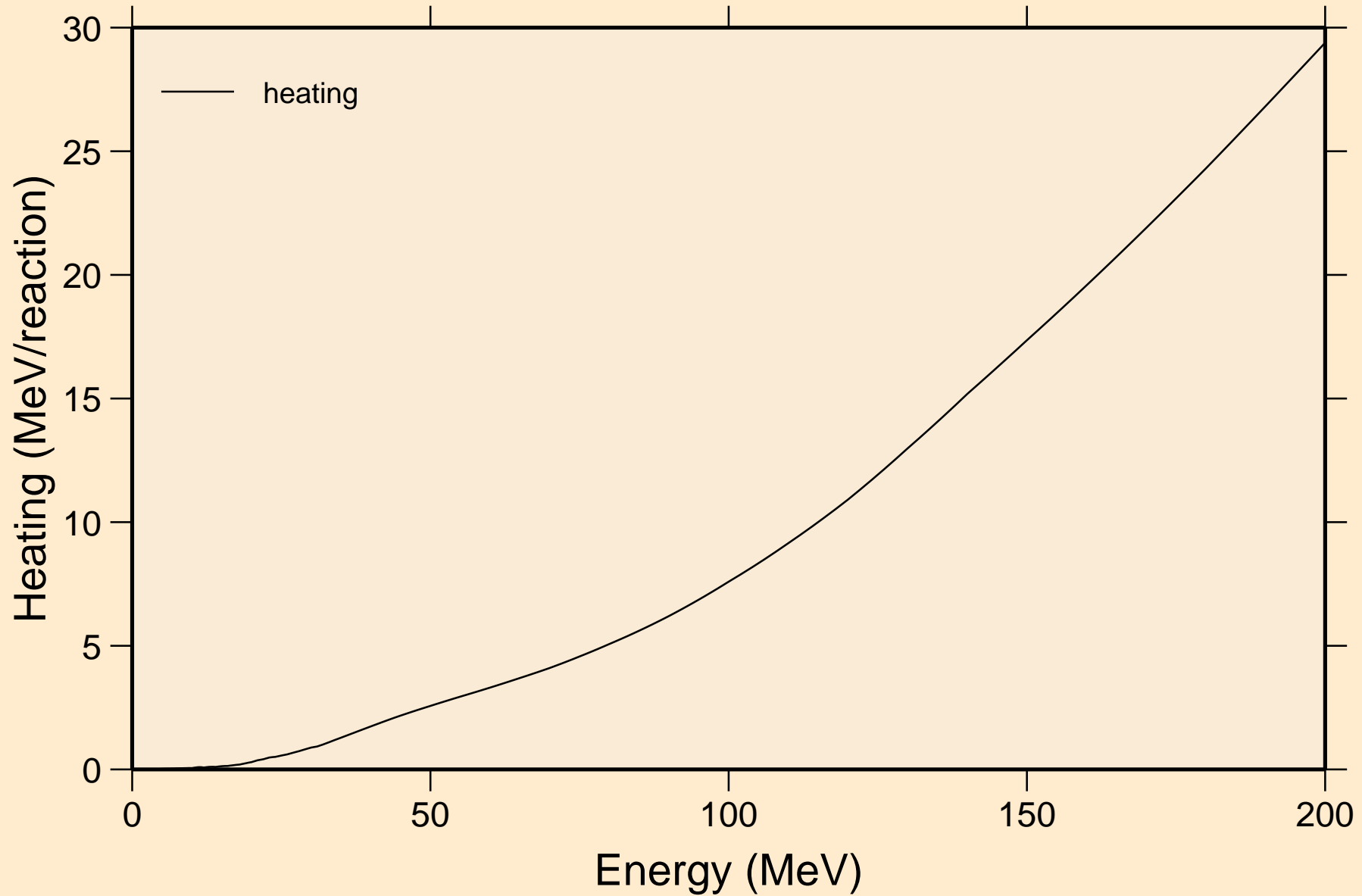


IR189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Principal cross sections

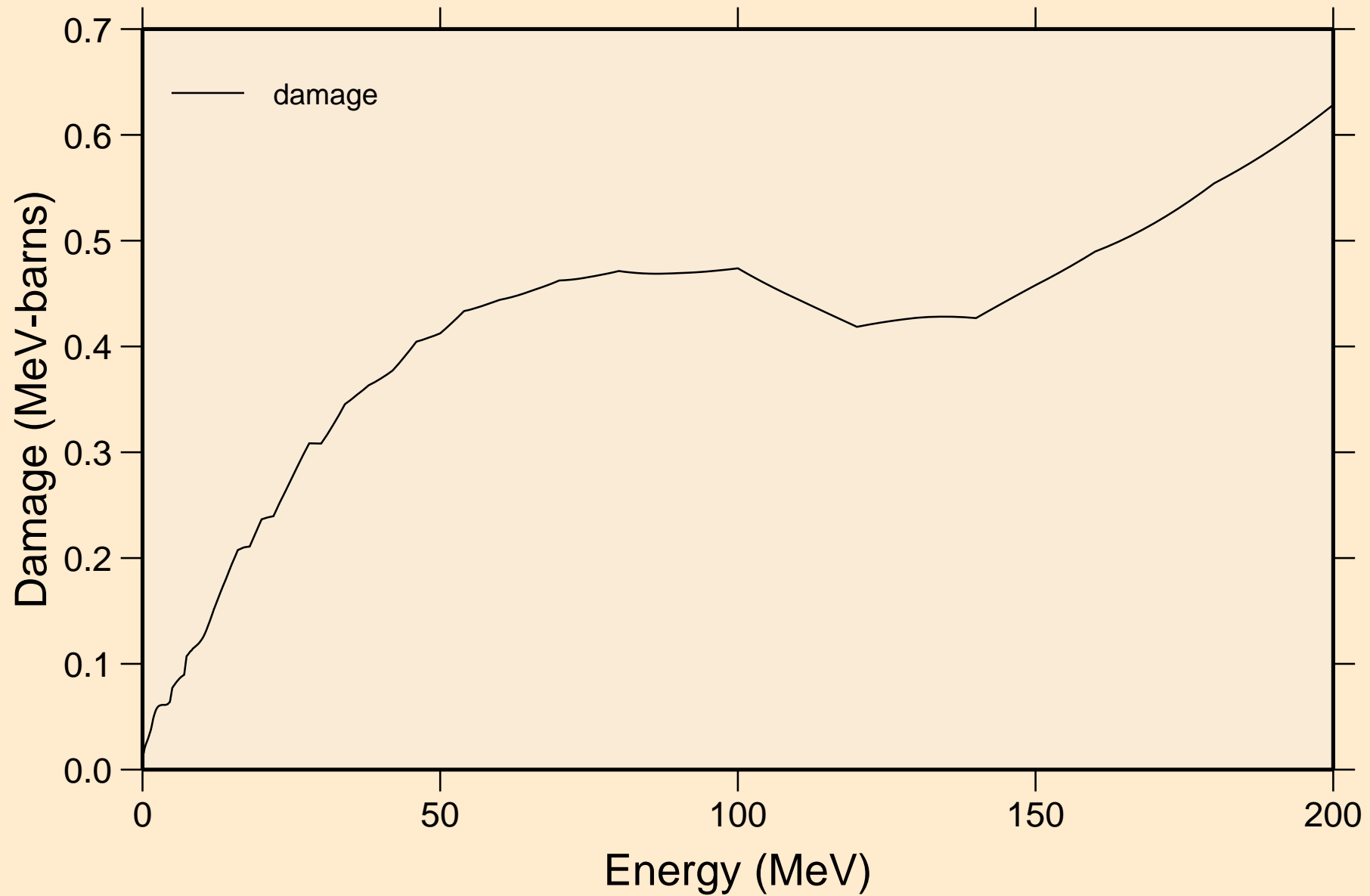


IR189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K

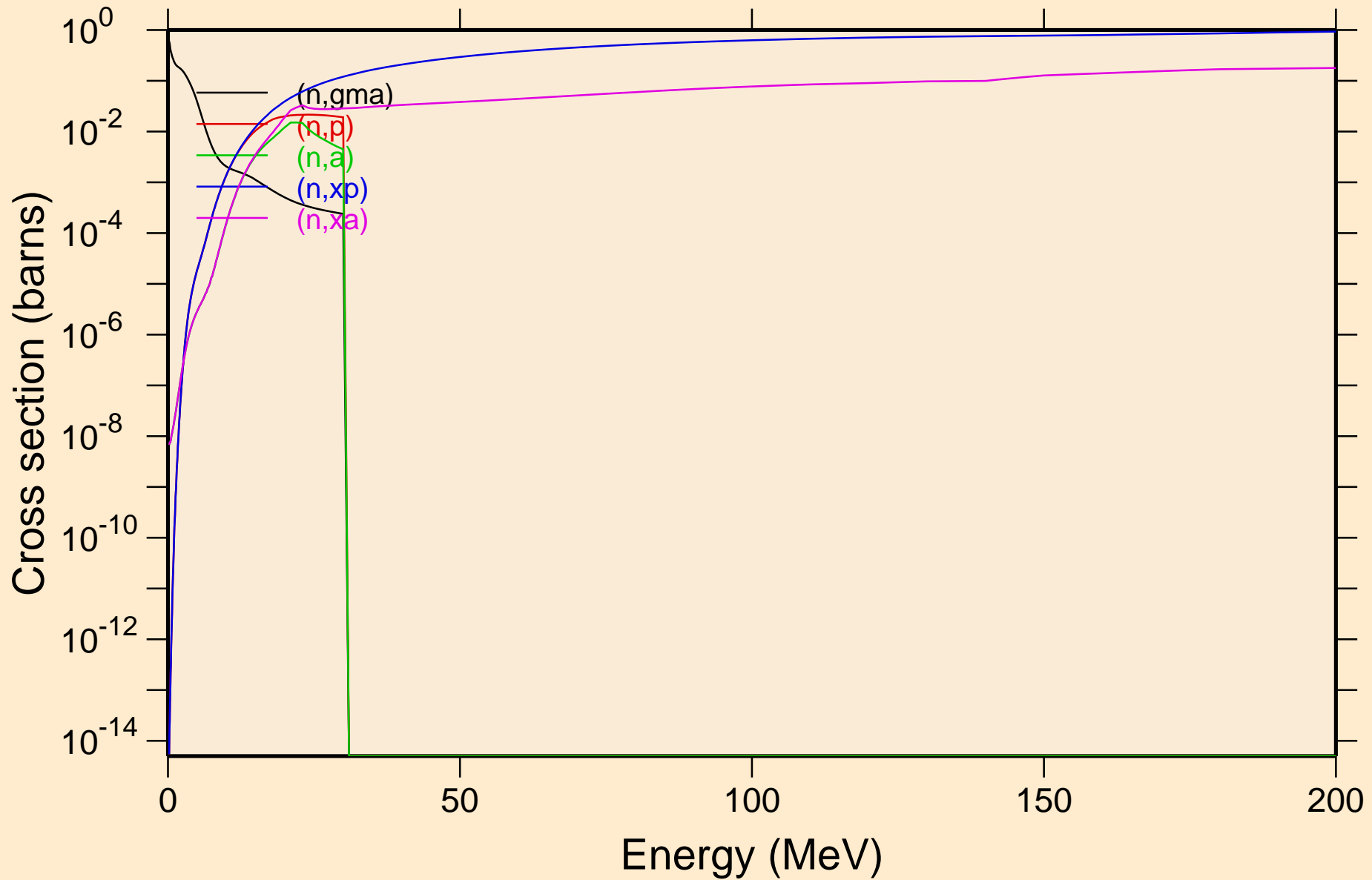
Heating



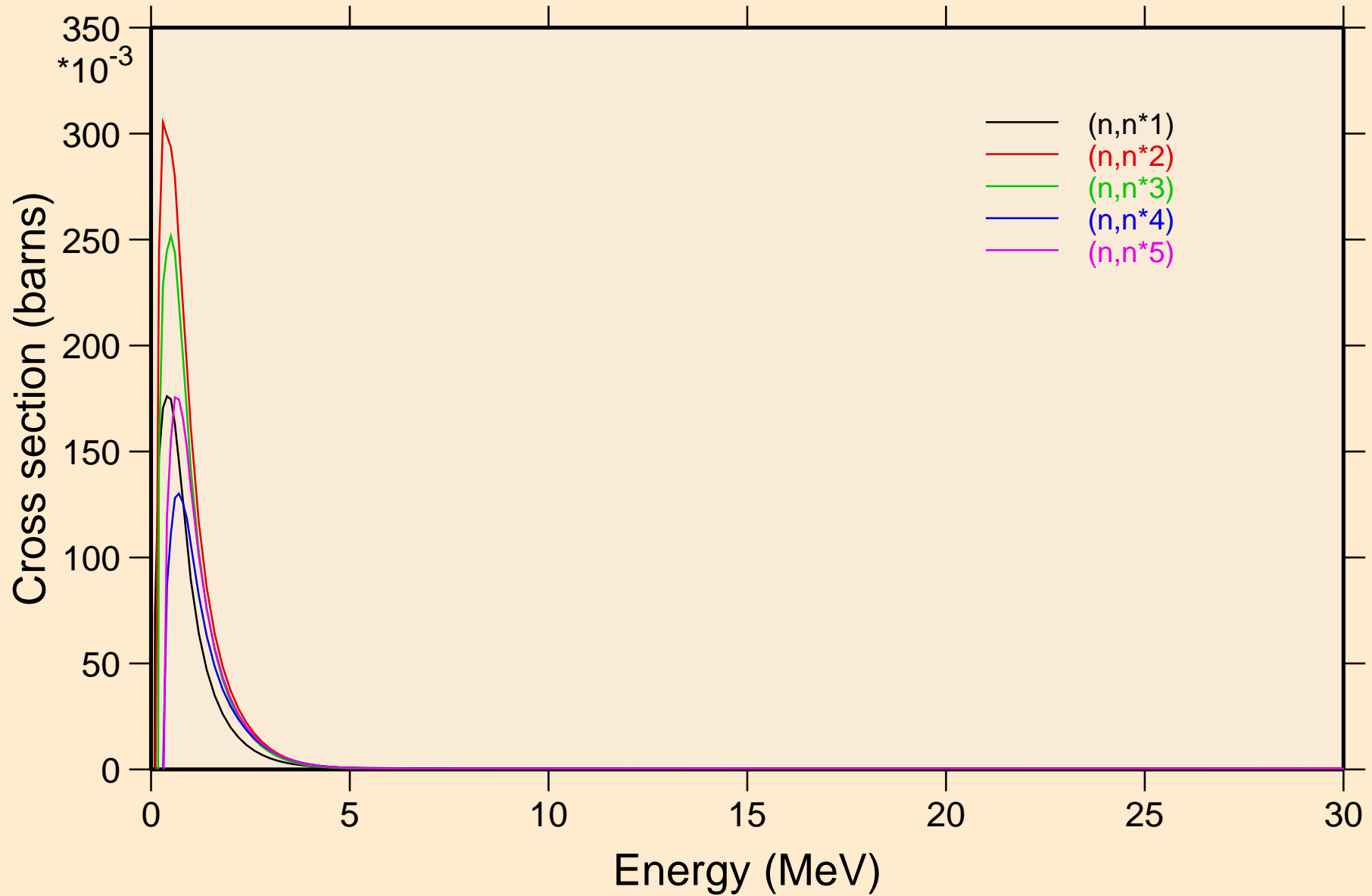
IR189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Damage



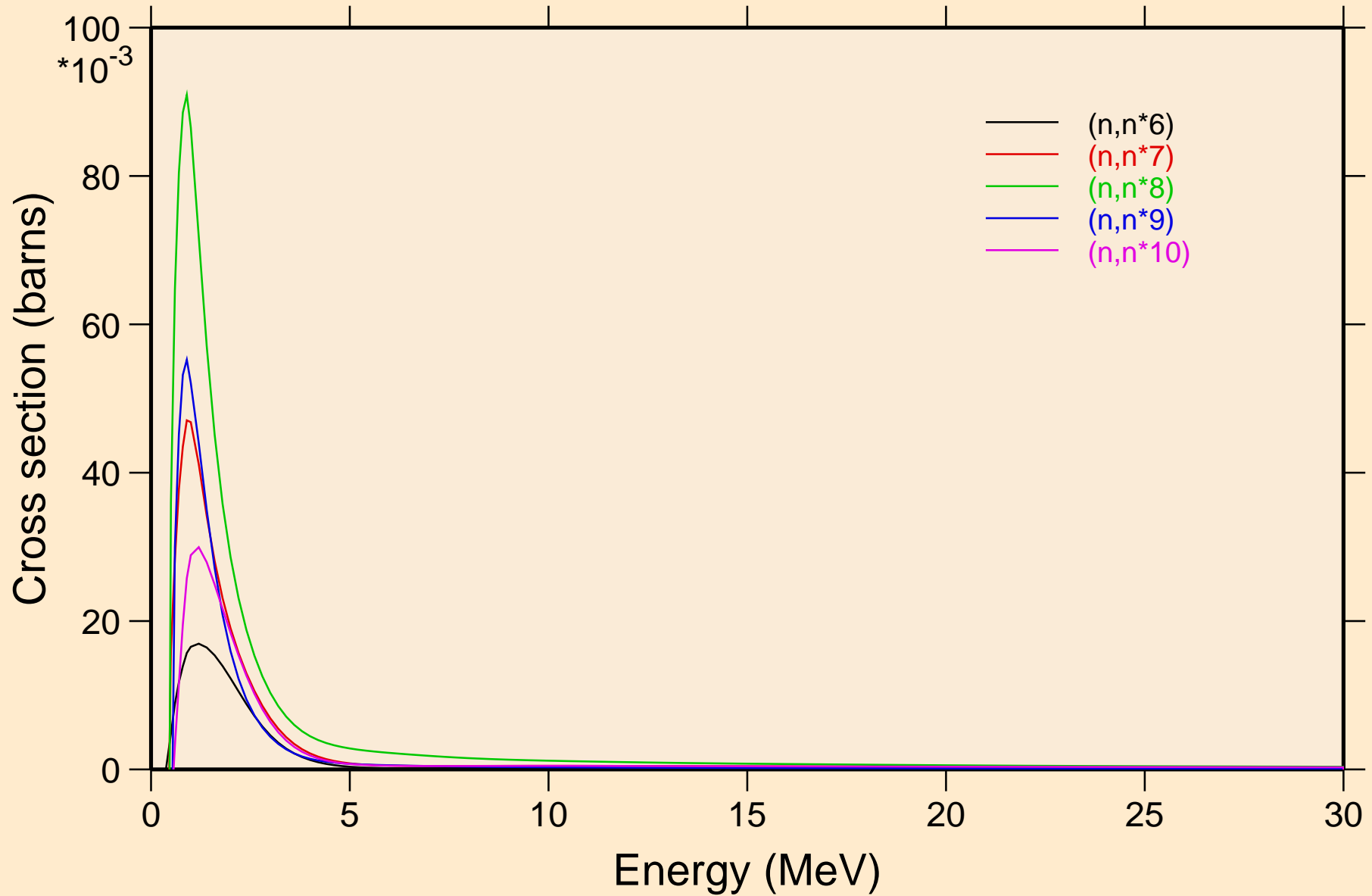
IR189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Non-threshold reactions



IR189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Inelastic levels

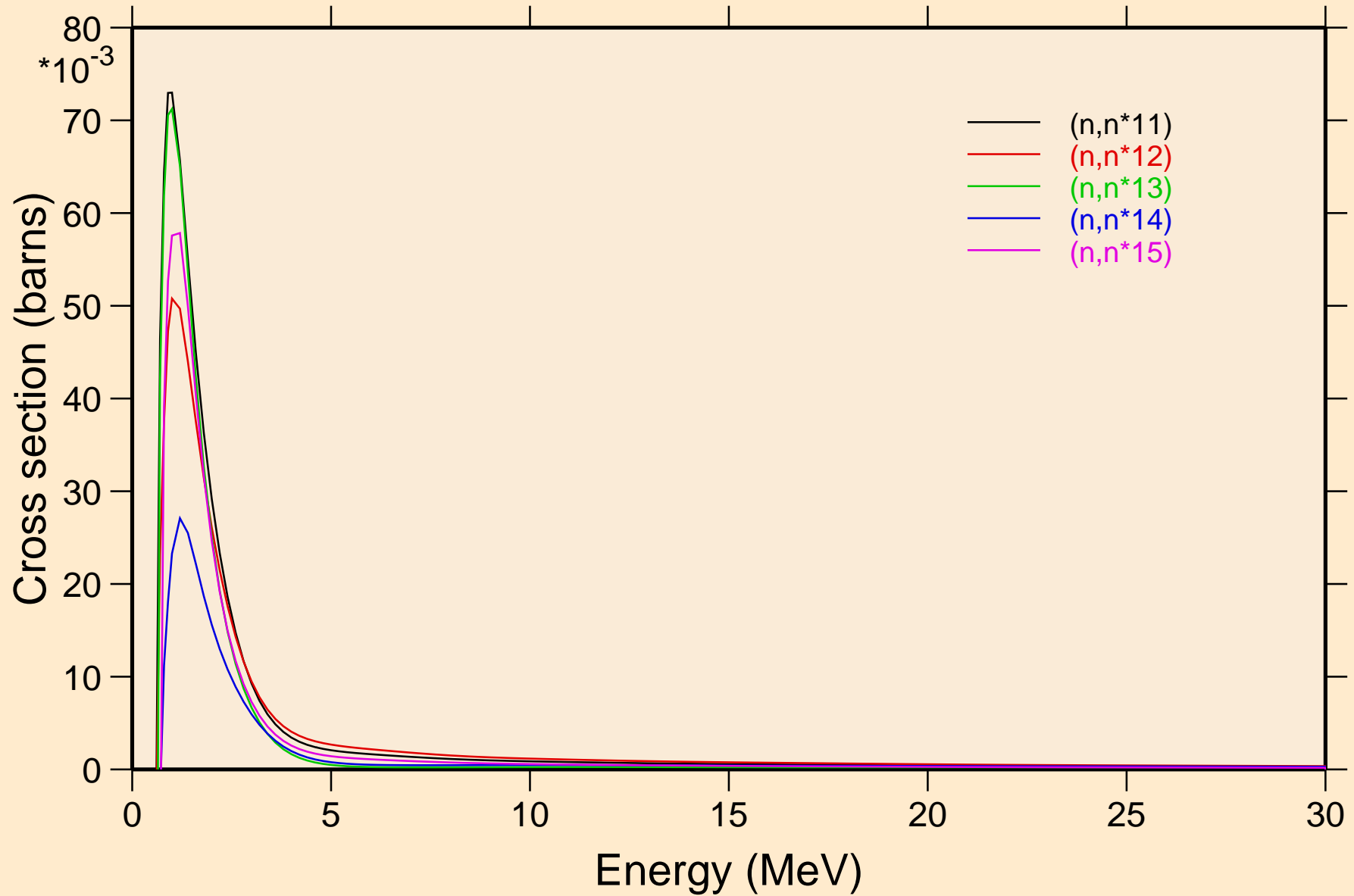


IR189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Inelastic levels

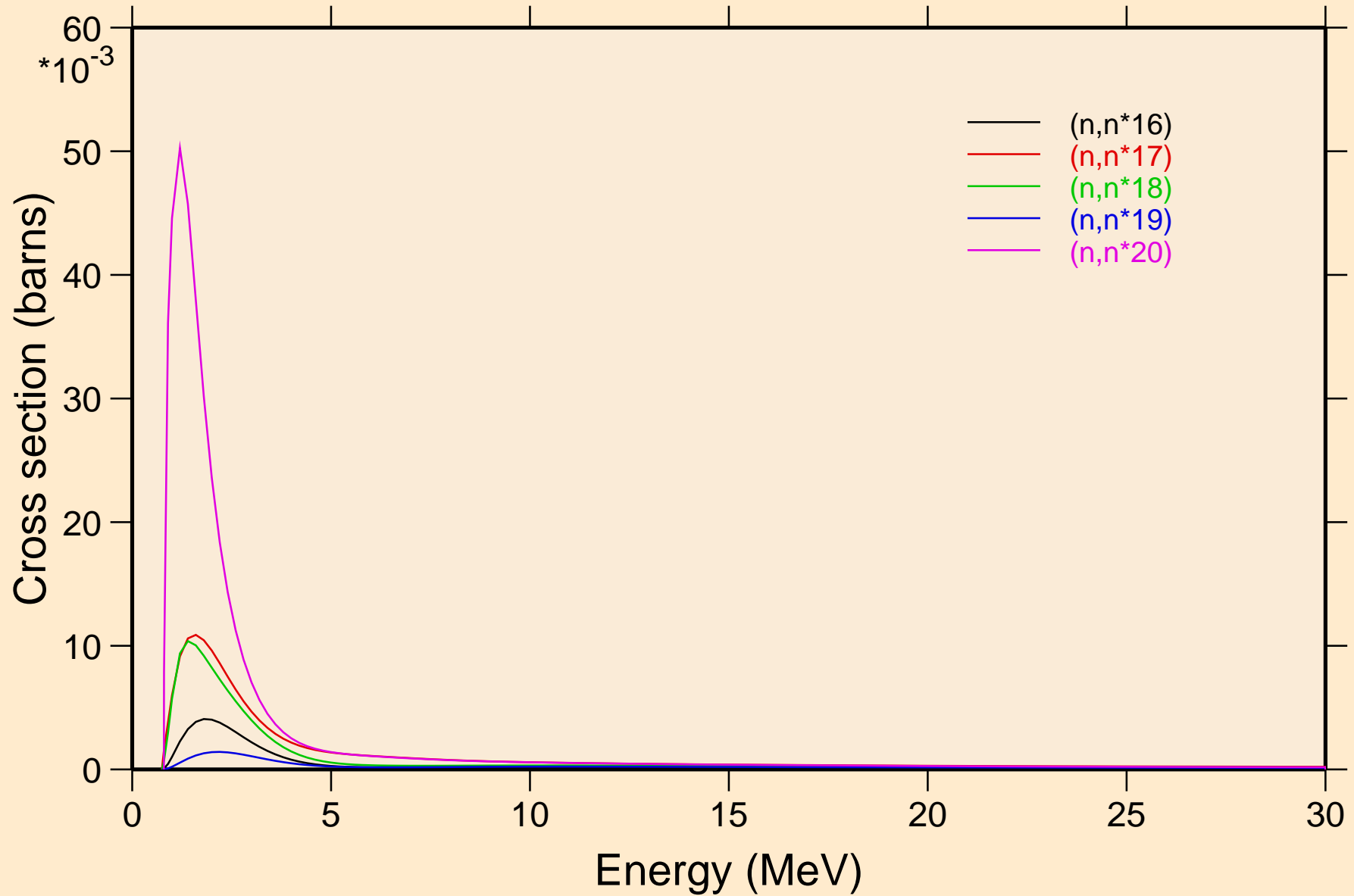




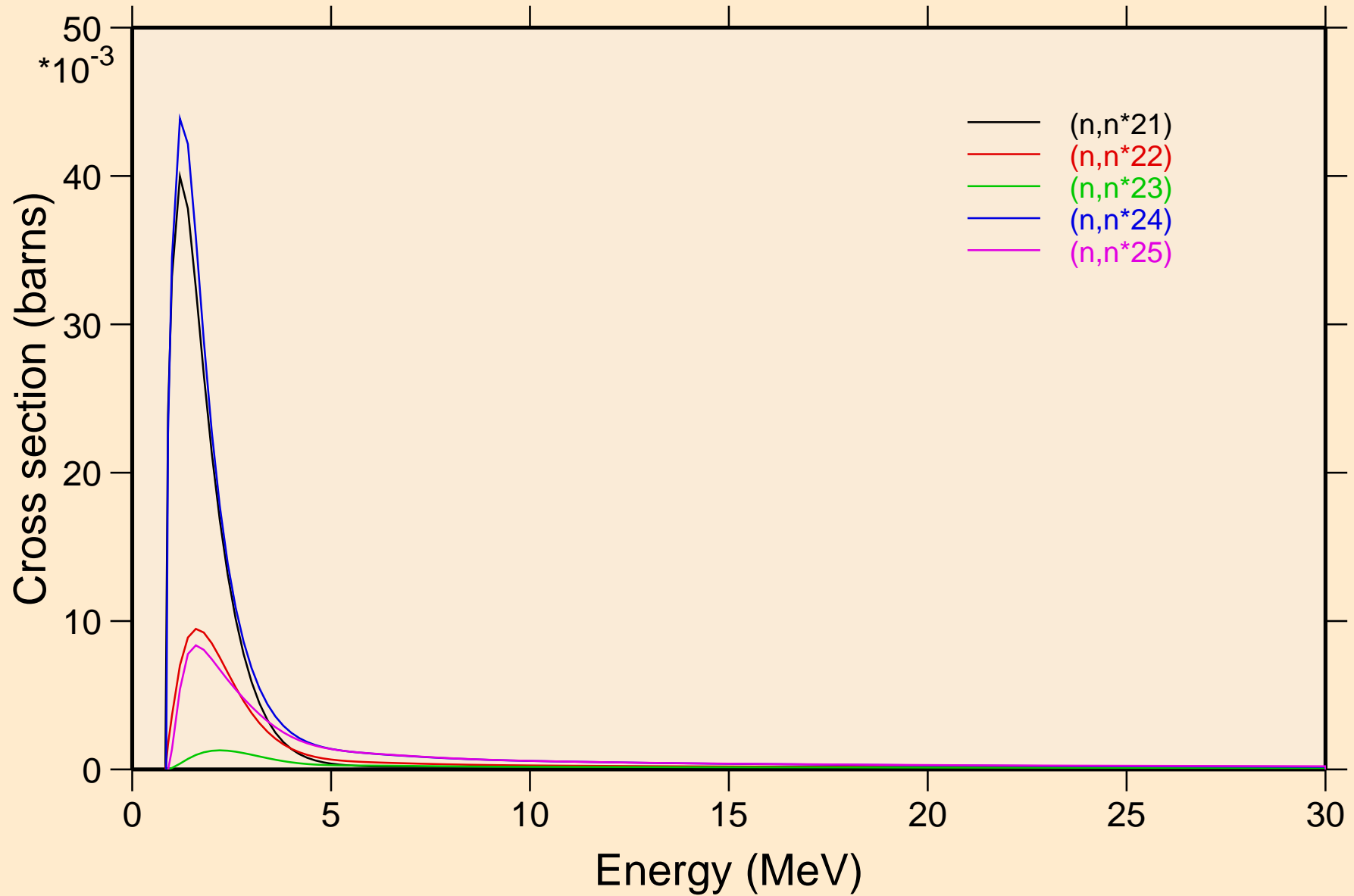
IR189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Inelastic levels



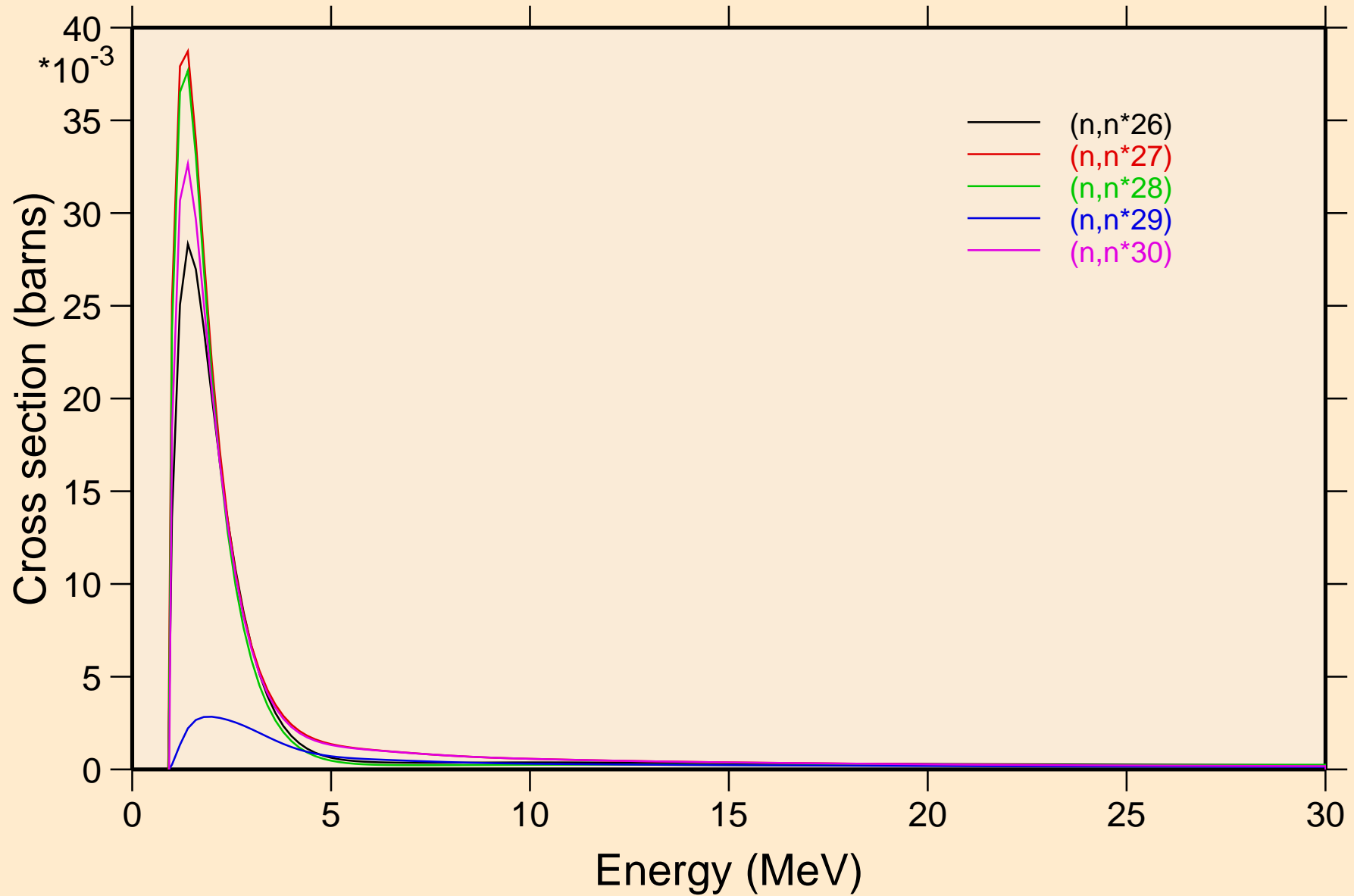
IR189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Inelastic levels



IR189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Inelastic levels

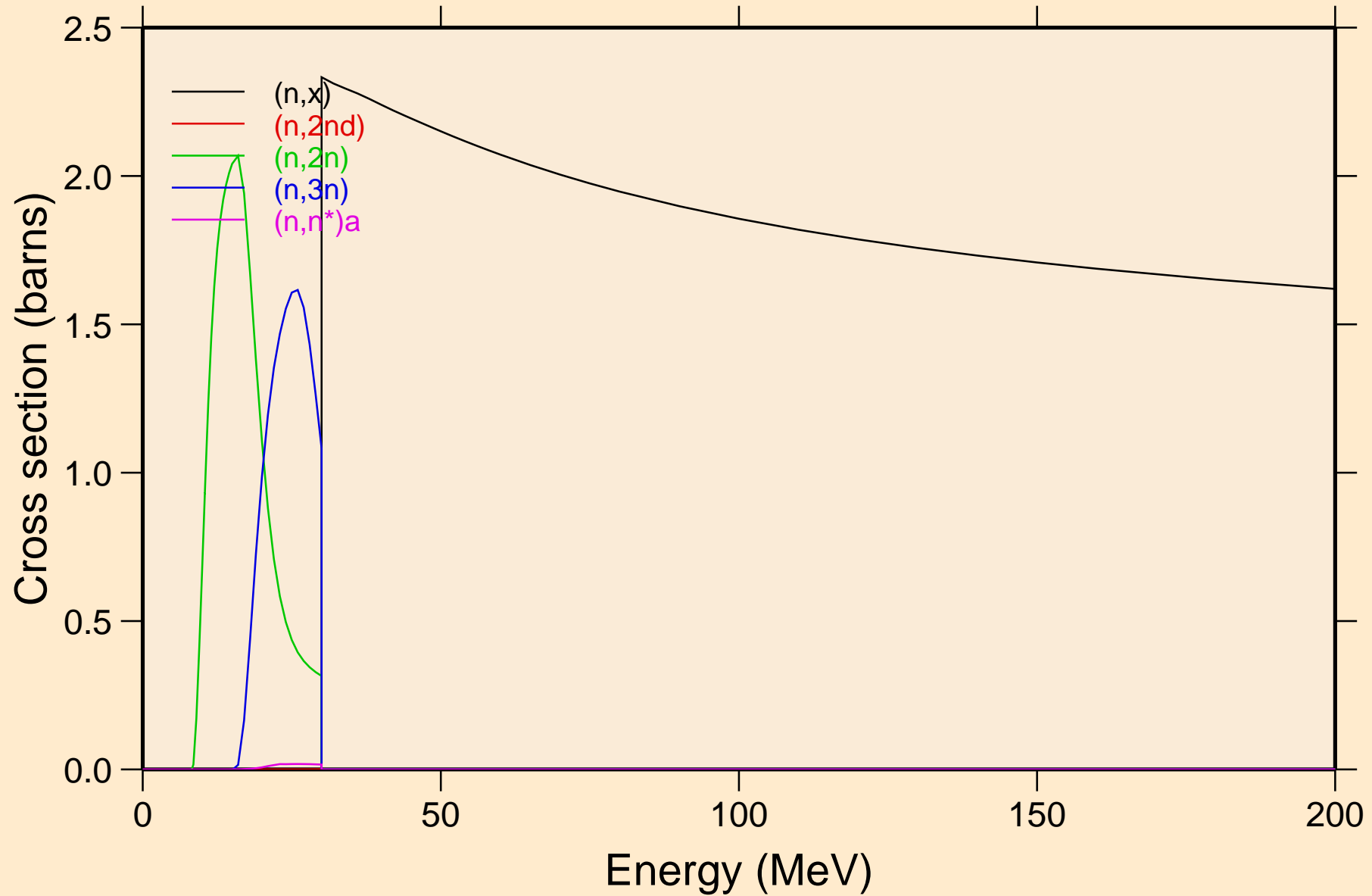


IR189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Inelastic levels

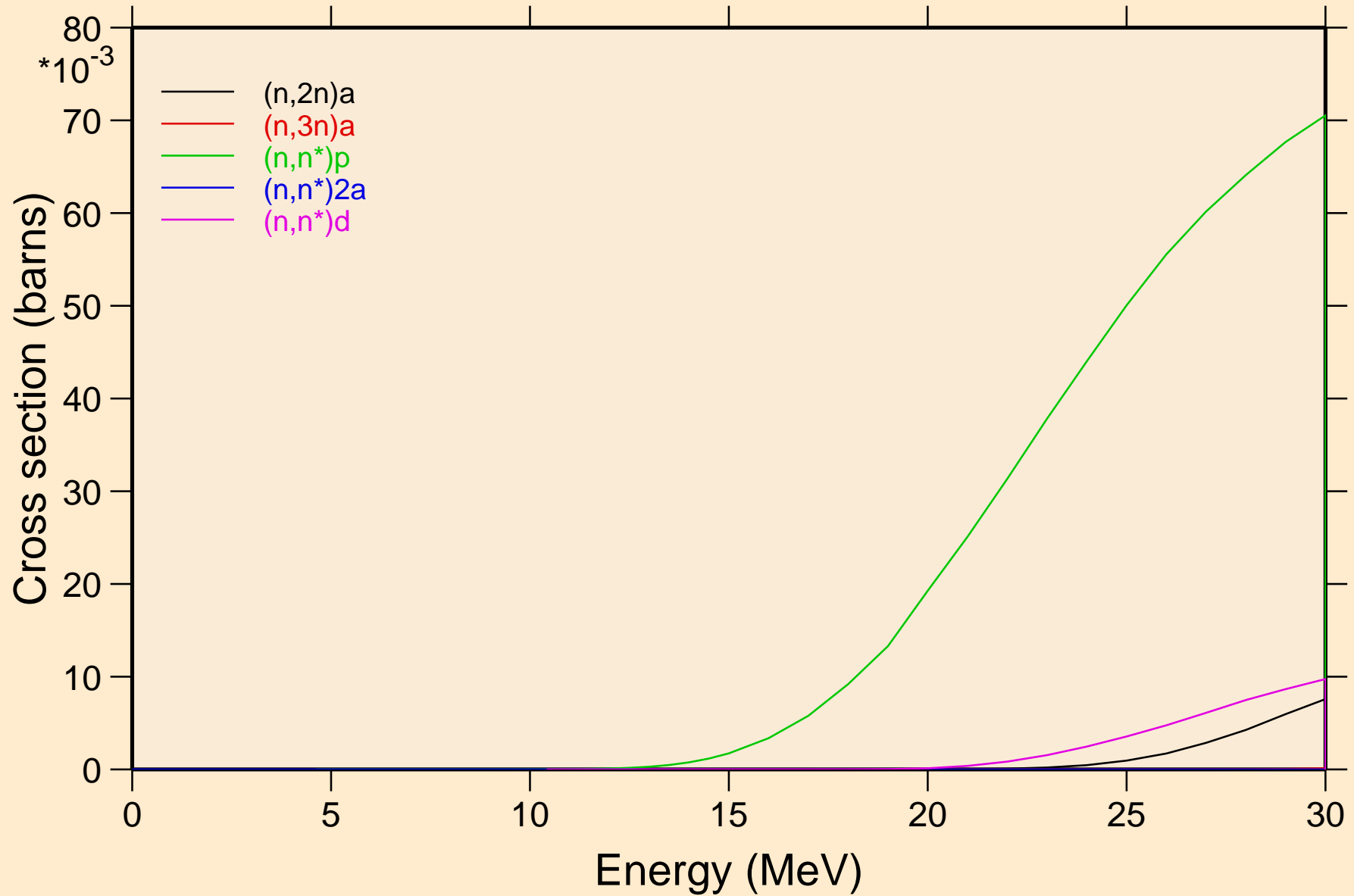


# IR189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K

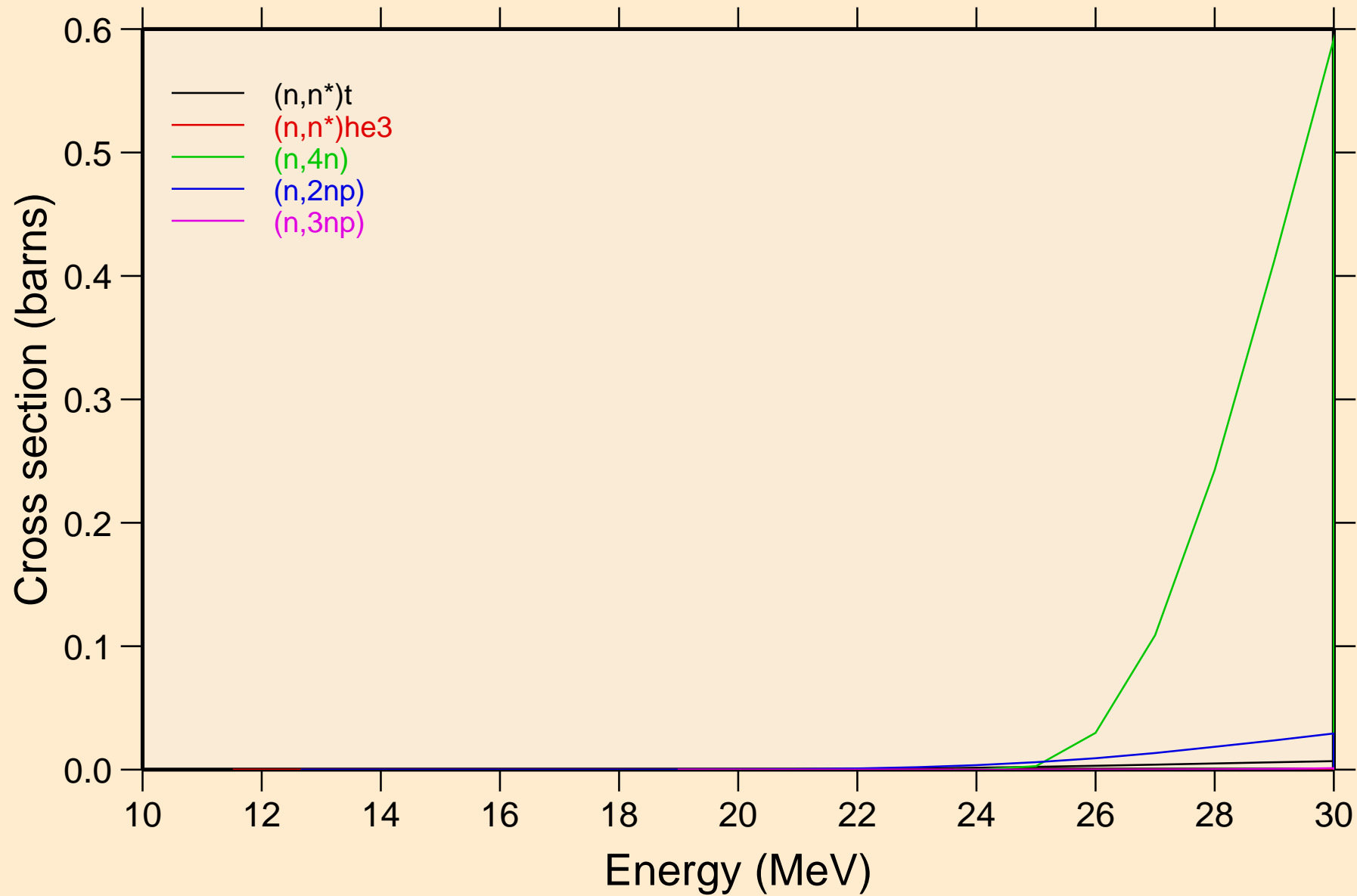
## Threshold reactions



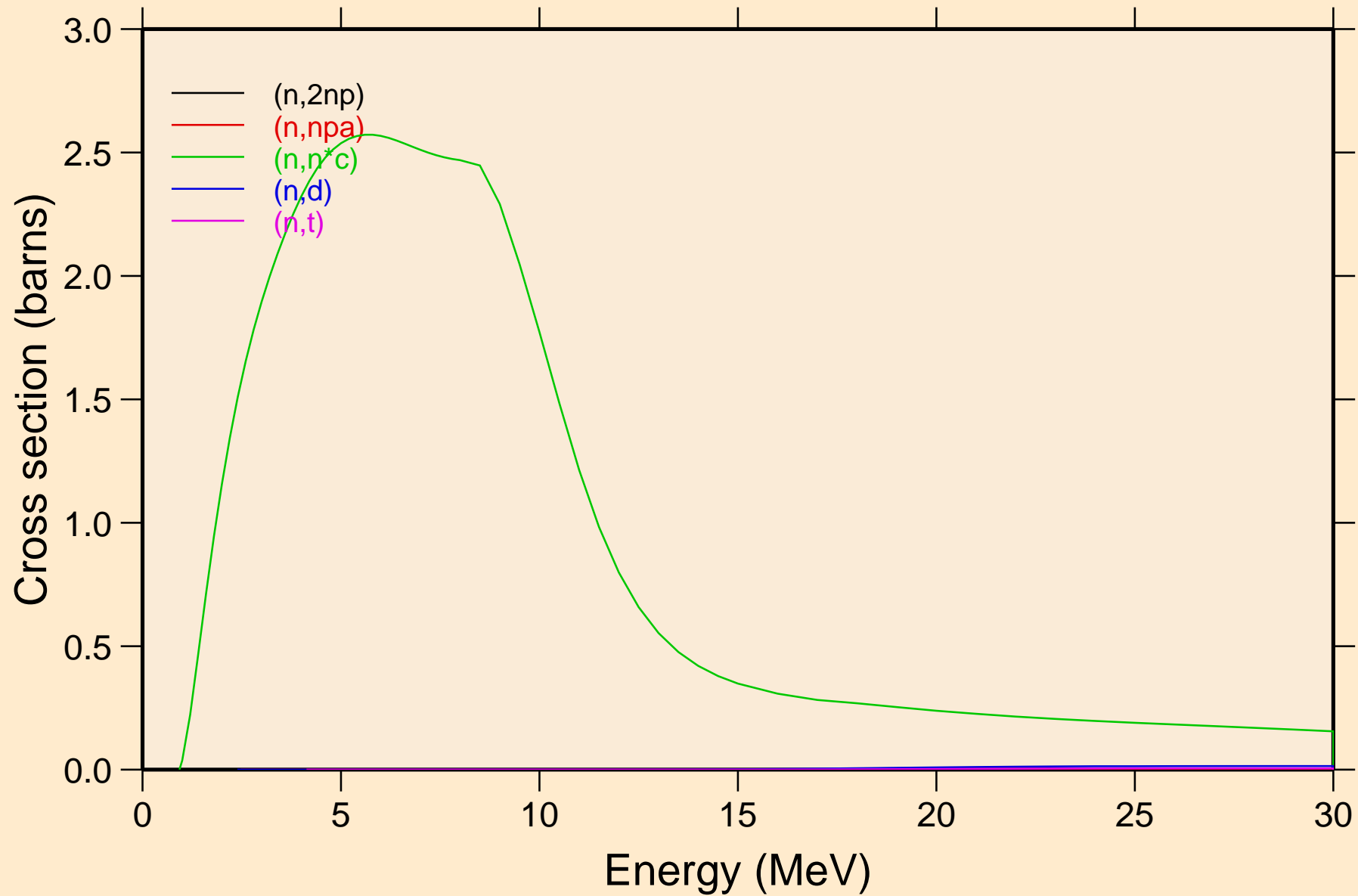
IR189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Threshold reactions



IR189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Threshold reactions

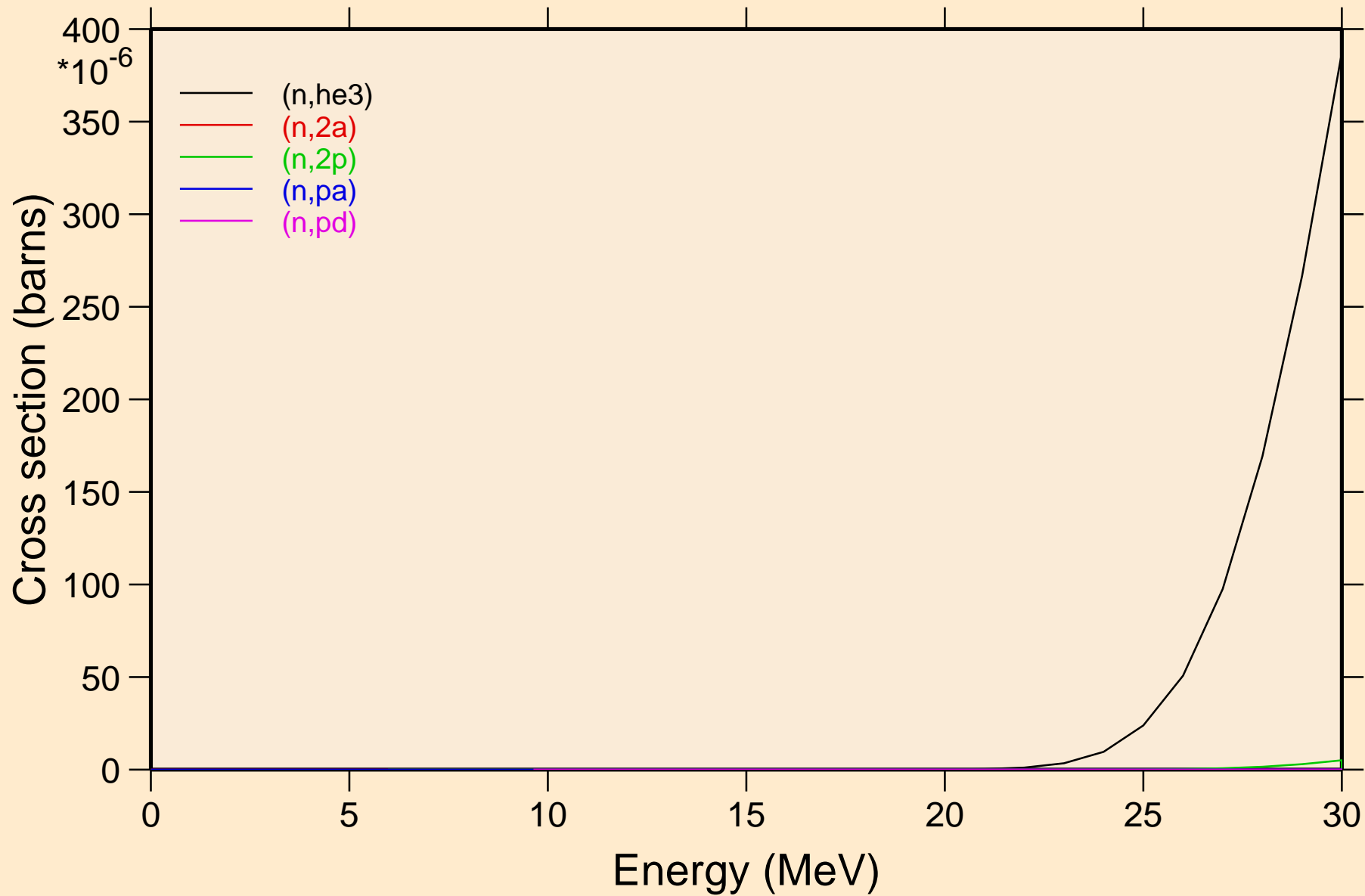


IR189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Threshold reactions

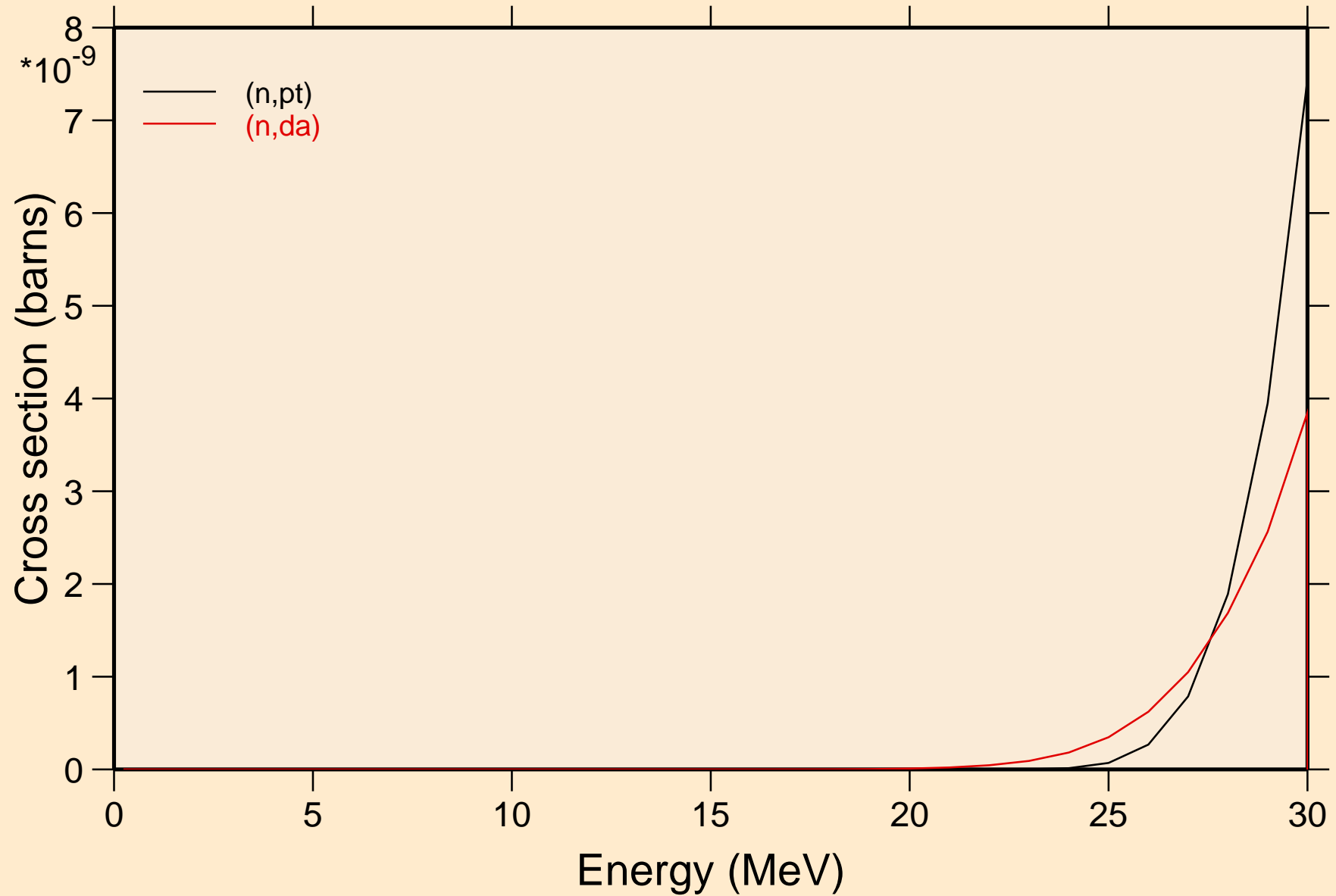




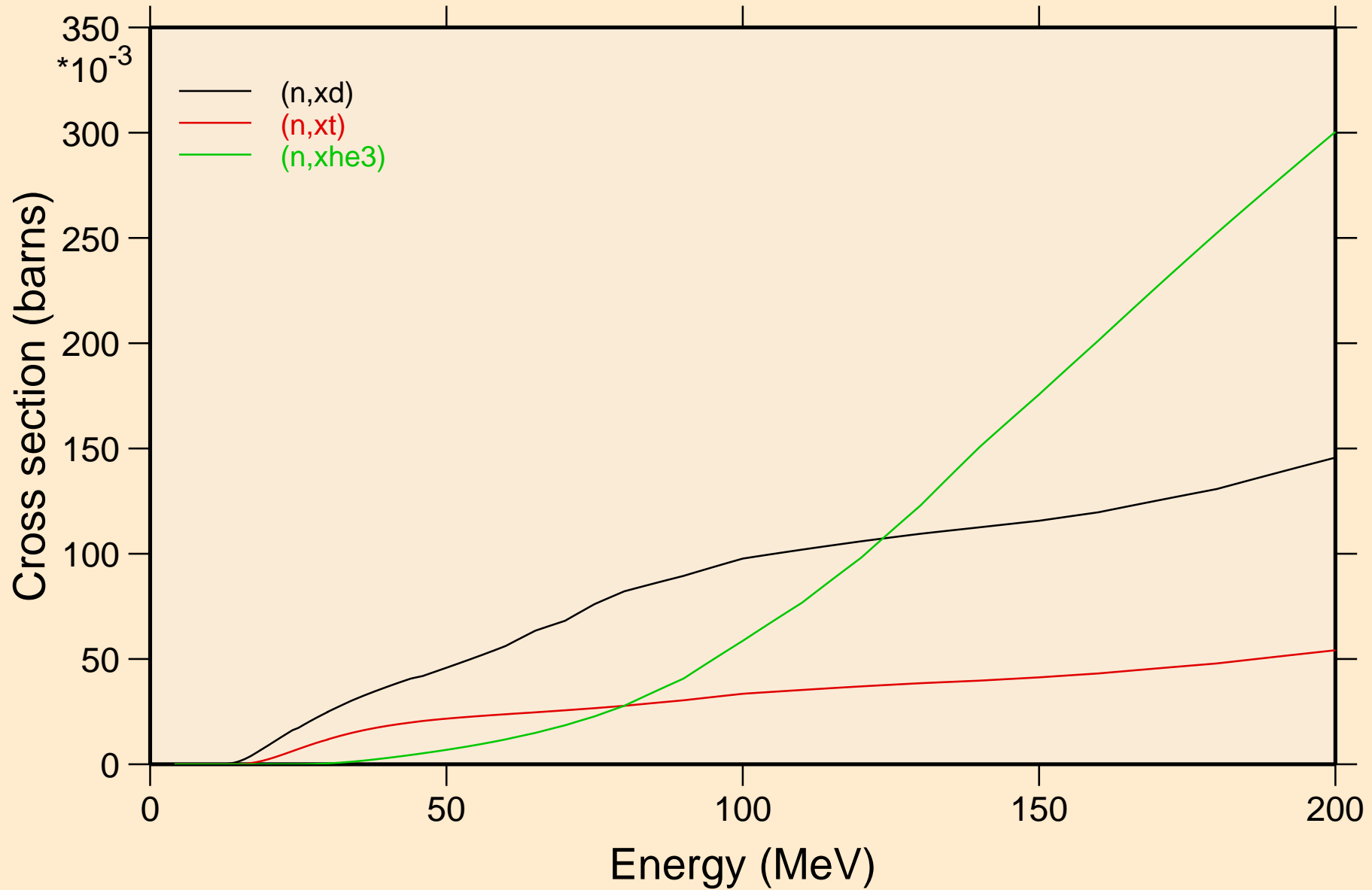
IR189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Threshold reactions



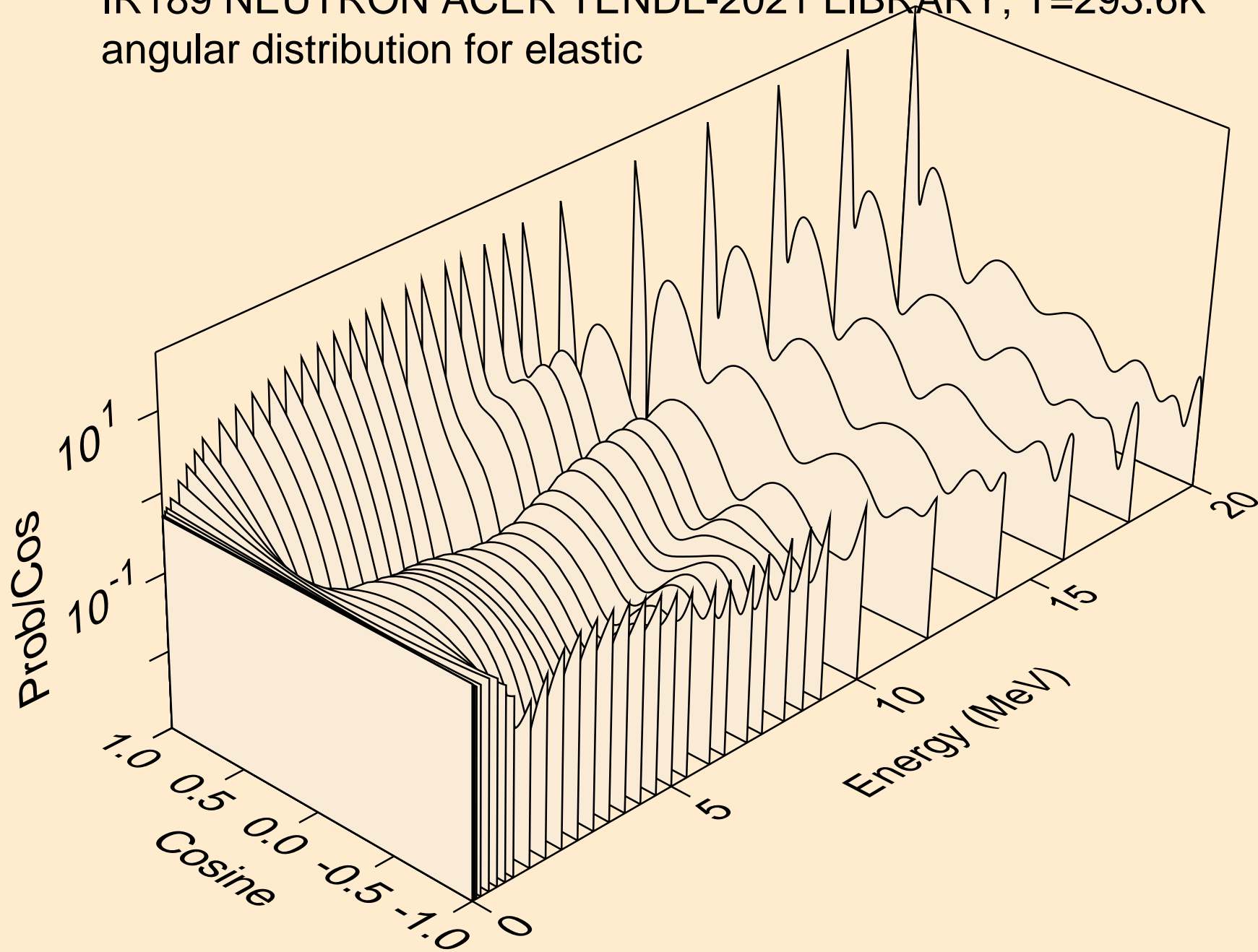
IR189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Threshold reactions



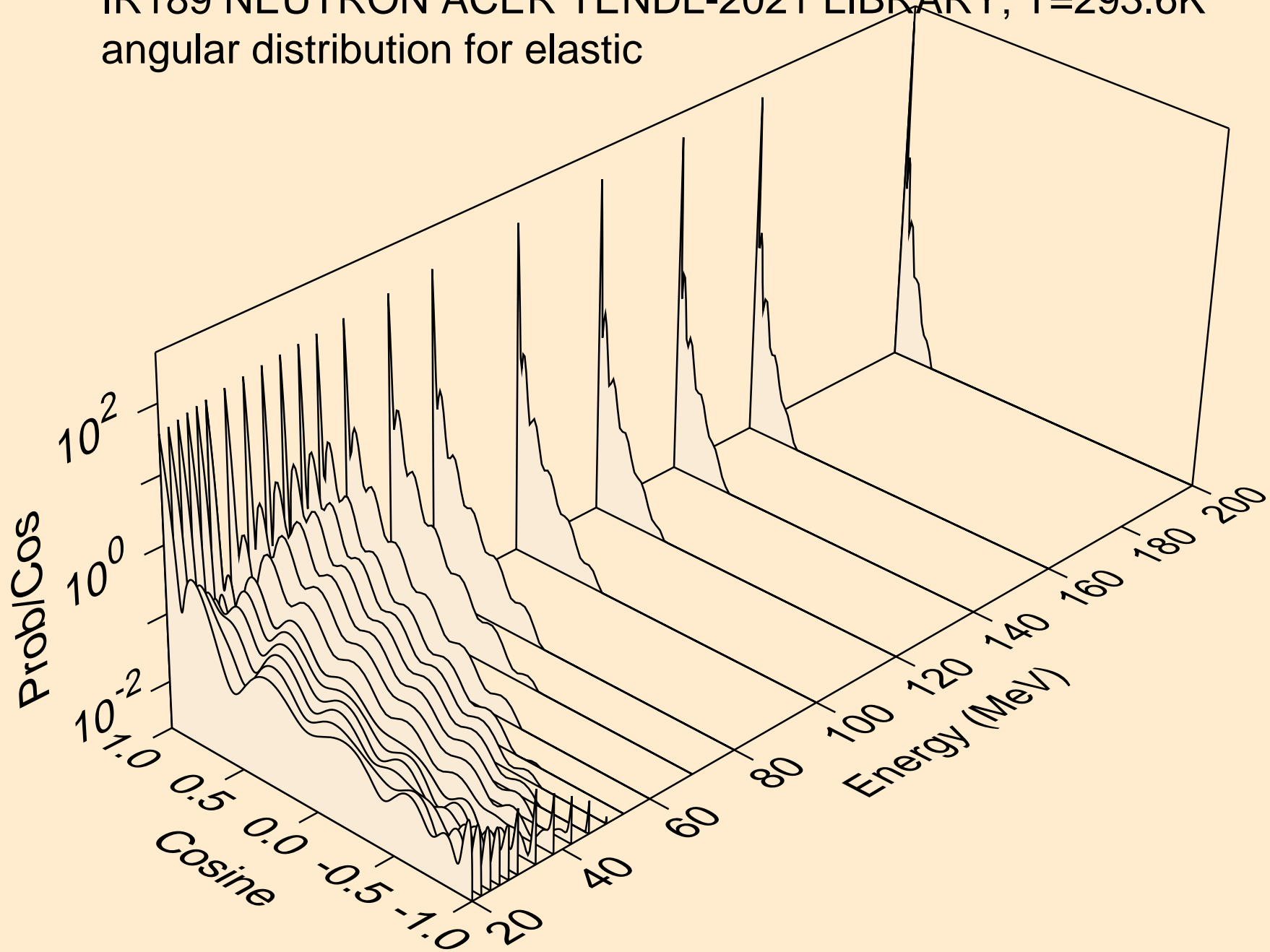
IR189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Threshold reactions



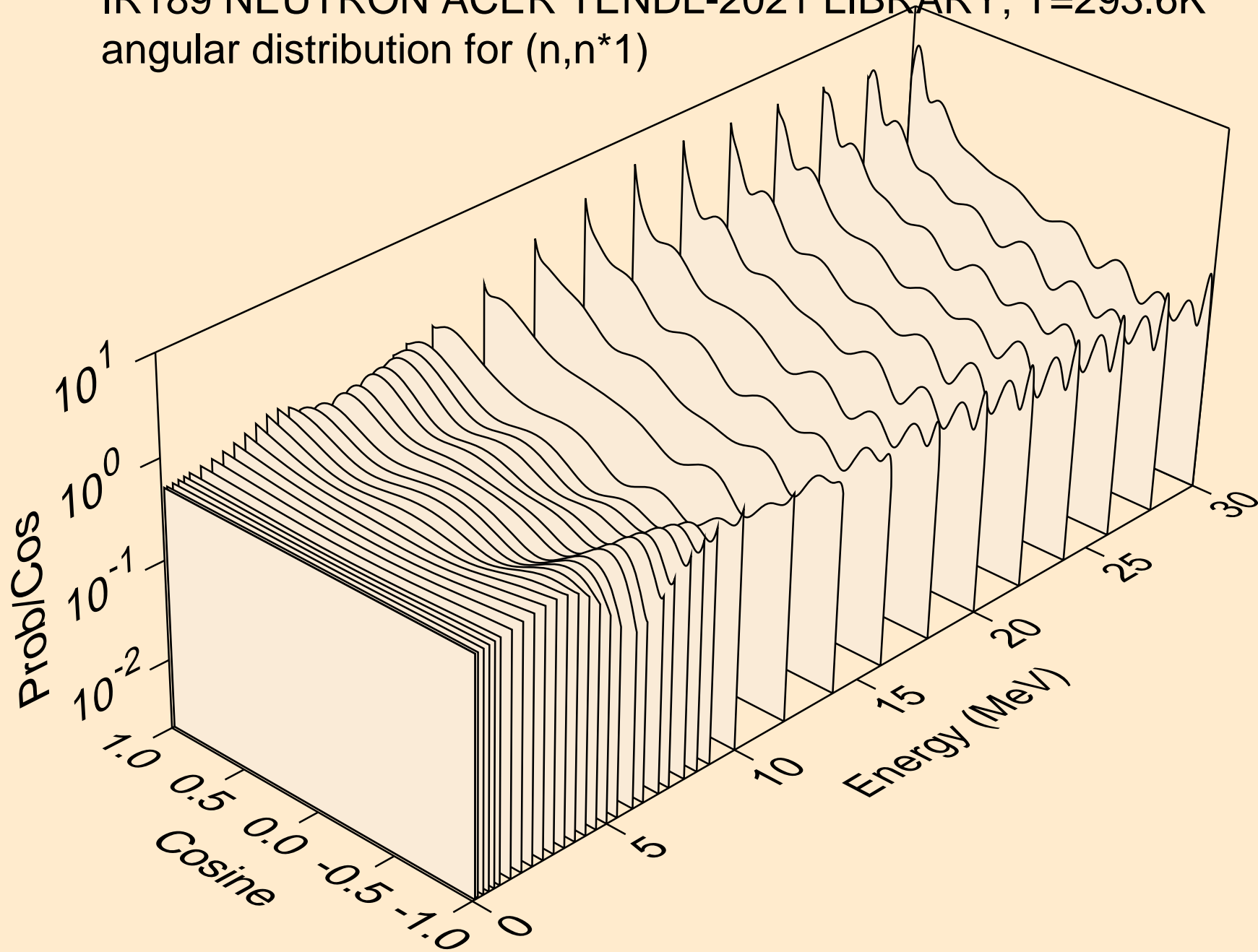
IR189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for elastic



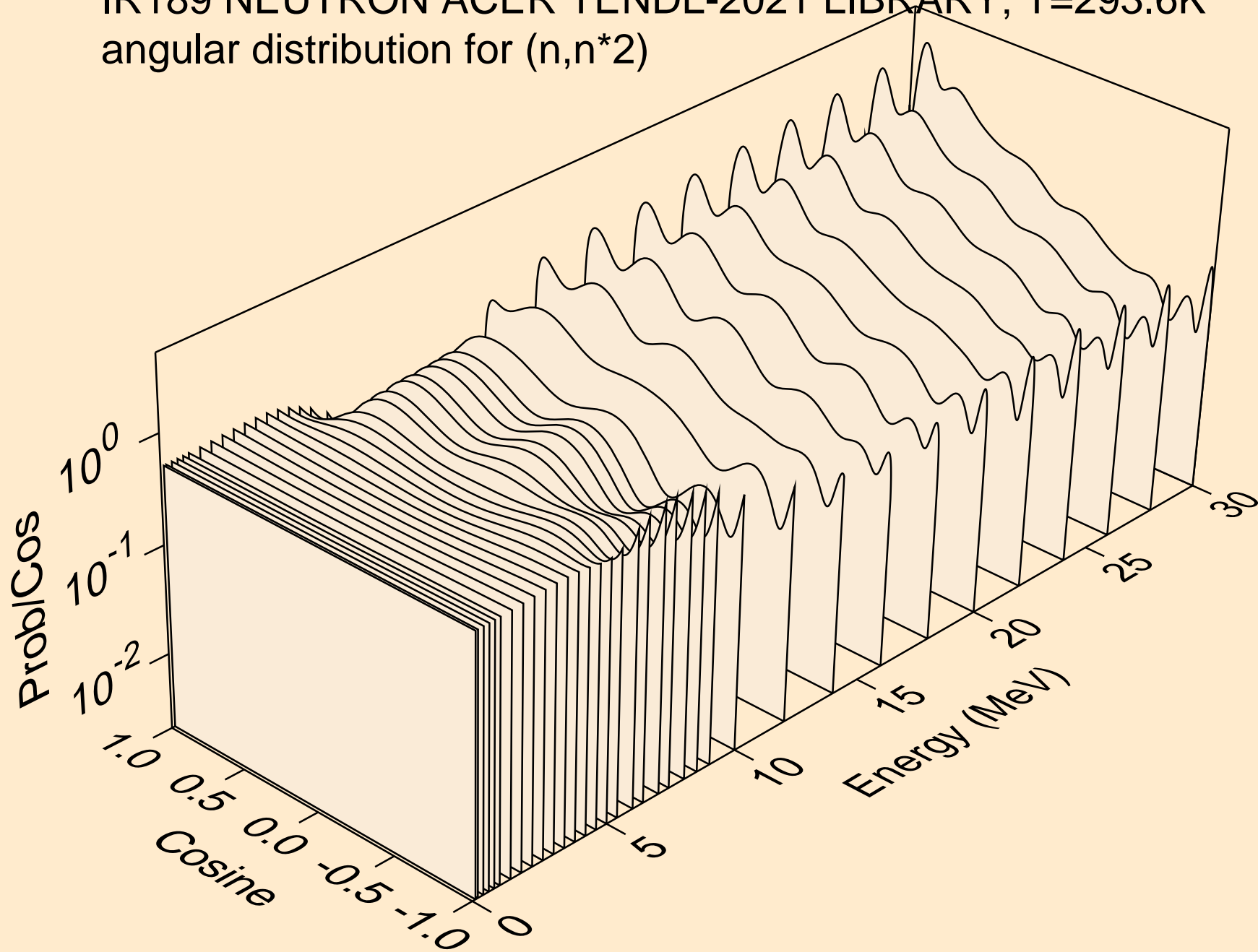
IR189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for elastic



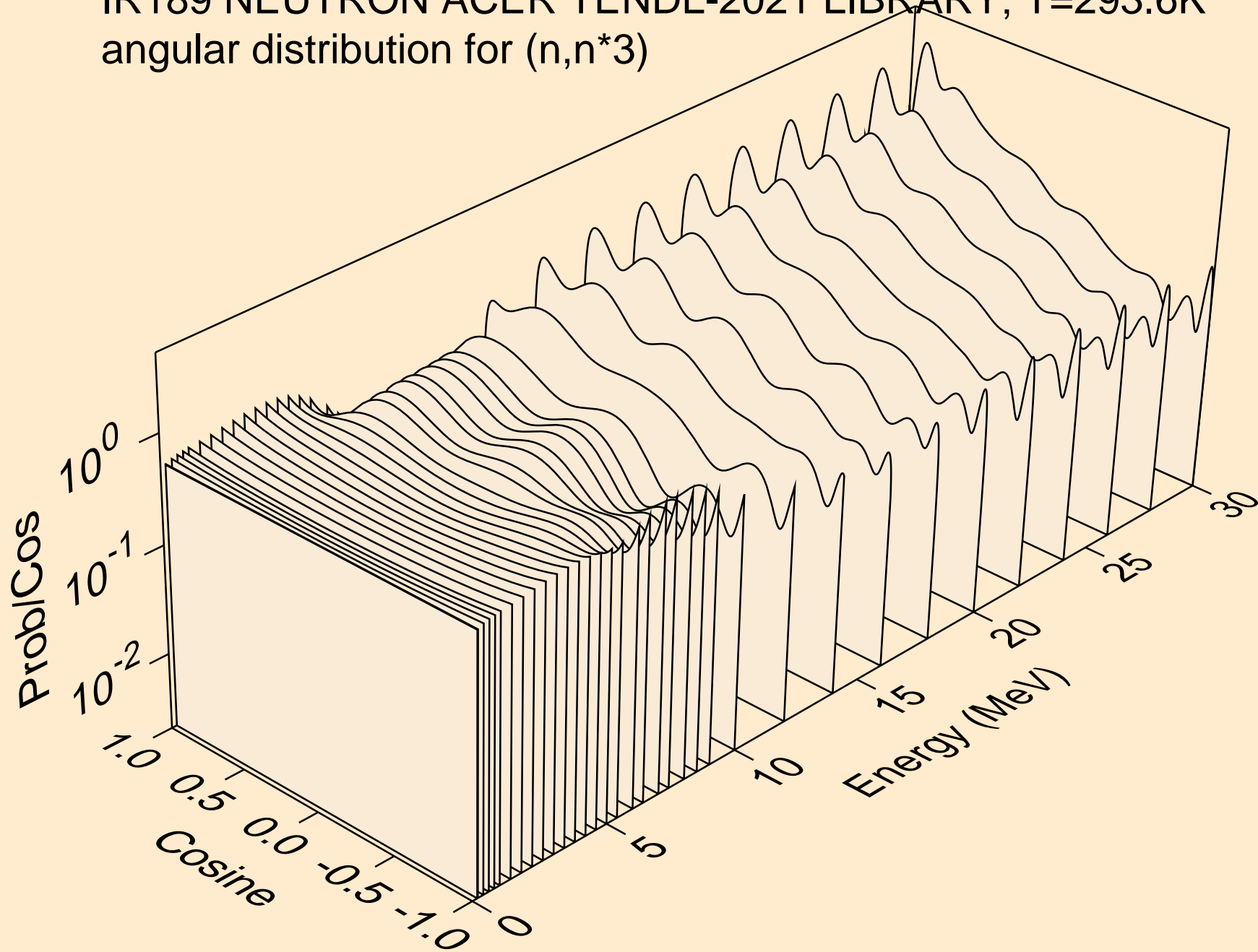
IR189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for (n,n\*1)



IR189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for (n,n\*2)

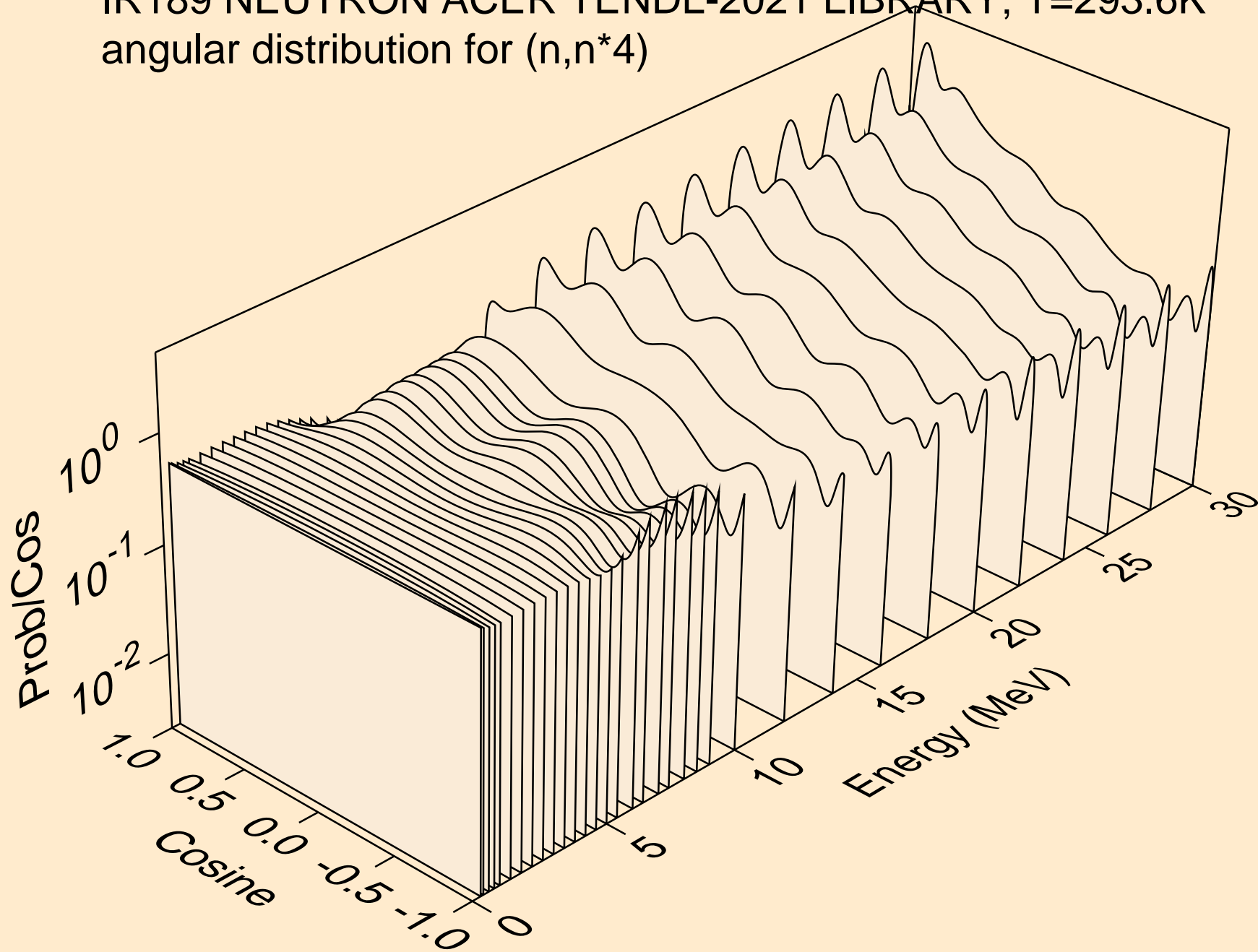


IR189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for (n,n\*3)

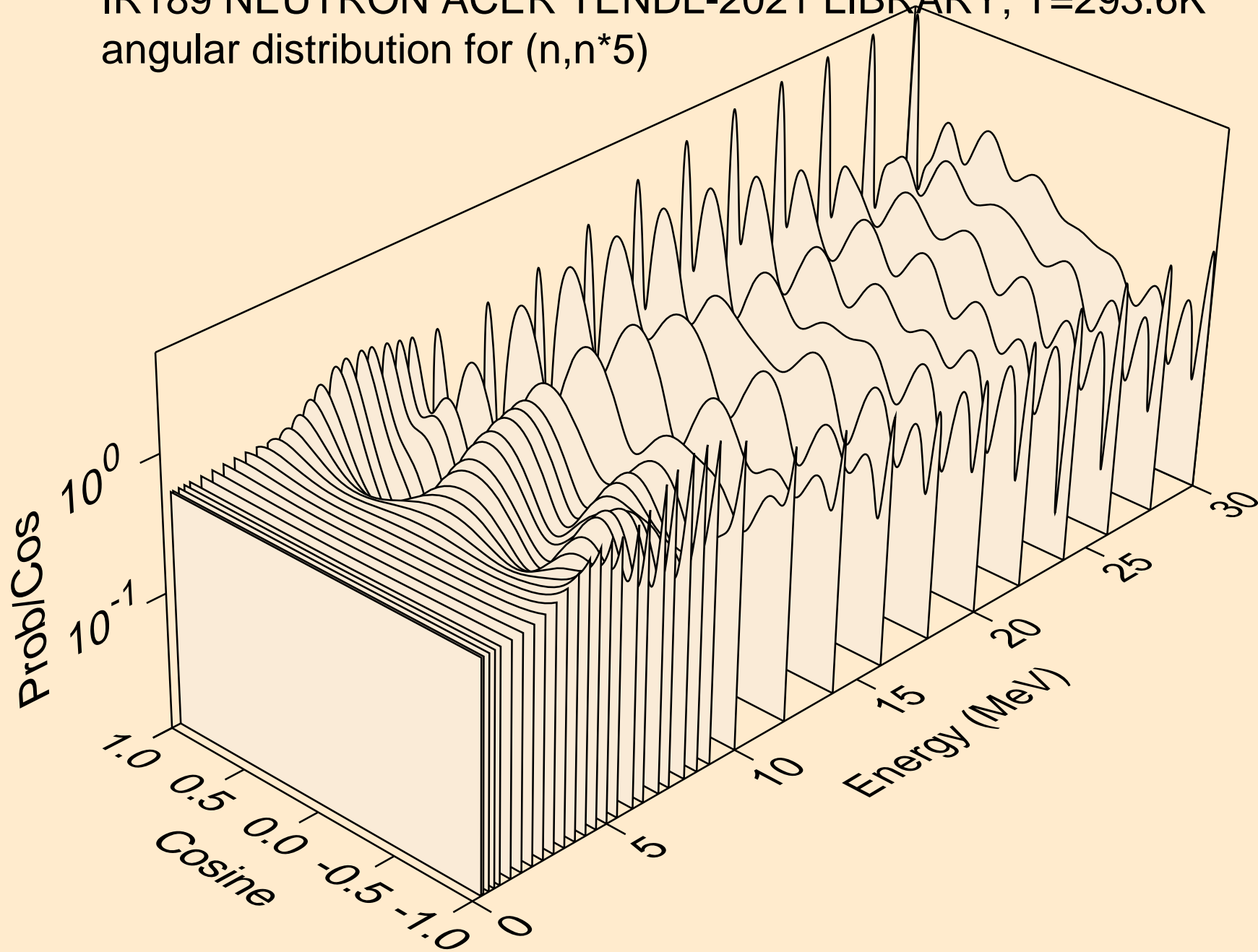




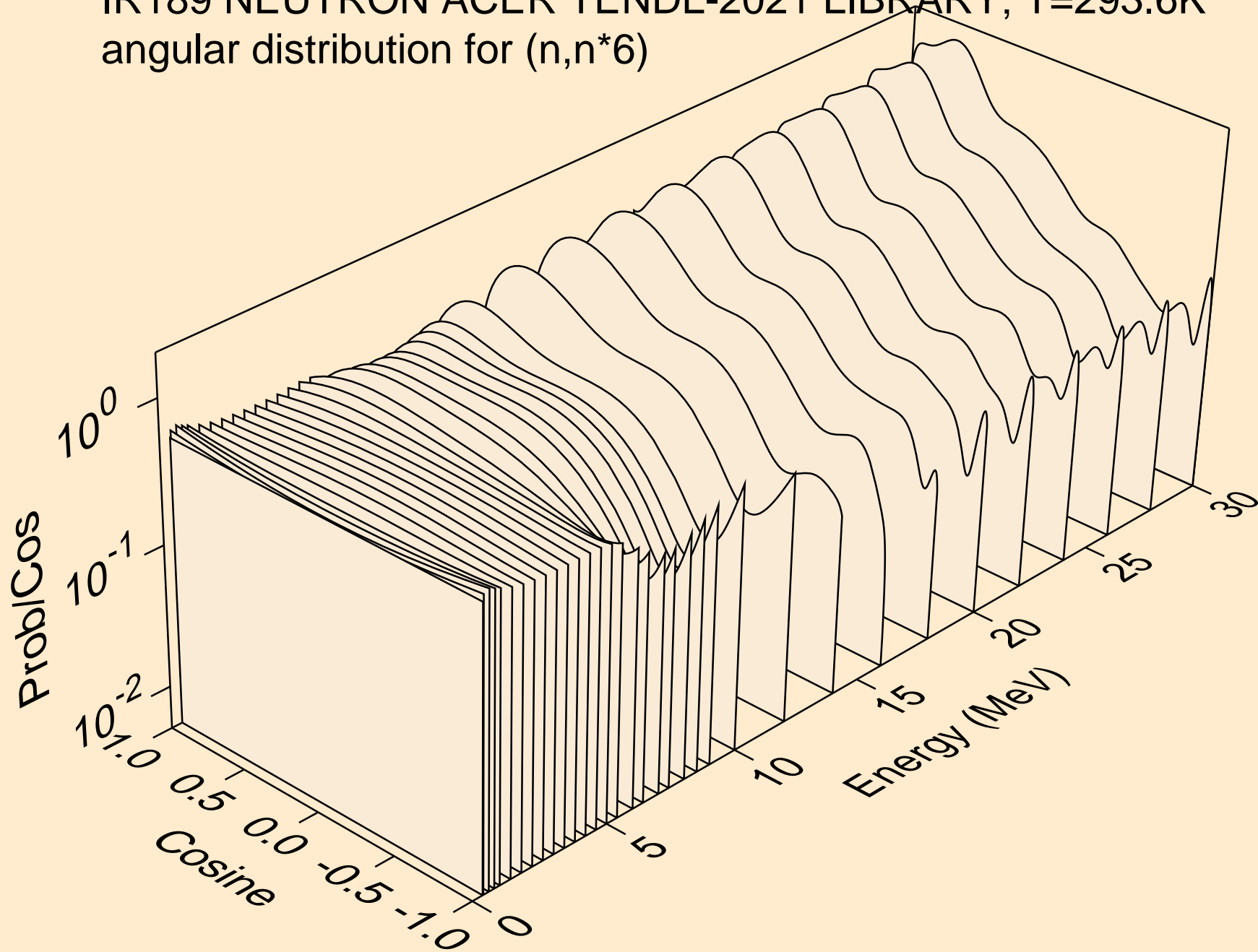
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angular distribution for (n,n\*4)



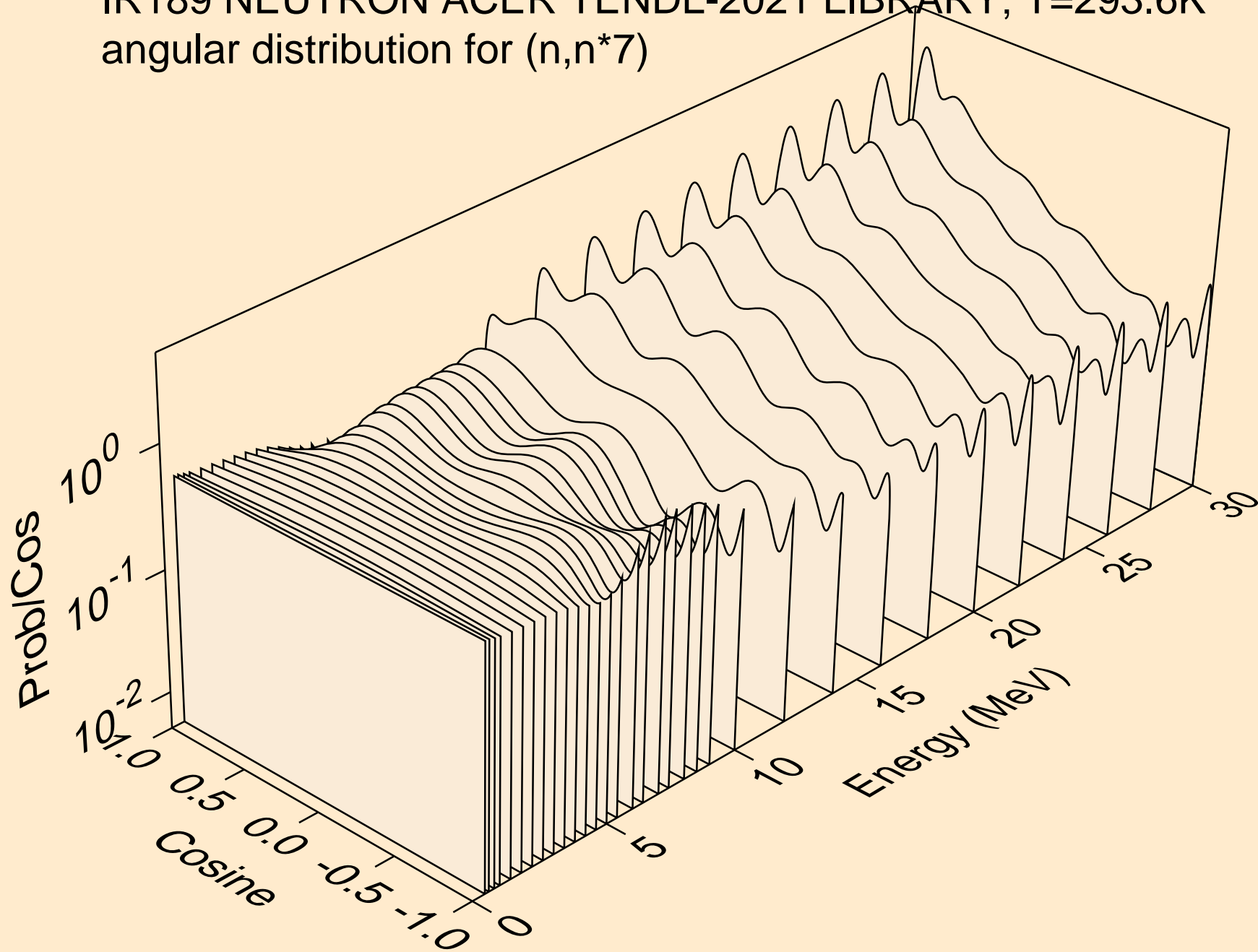
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angular distribution for (n,n\*5)



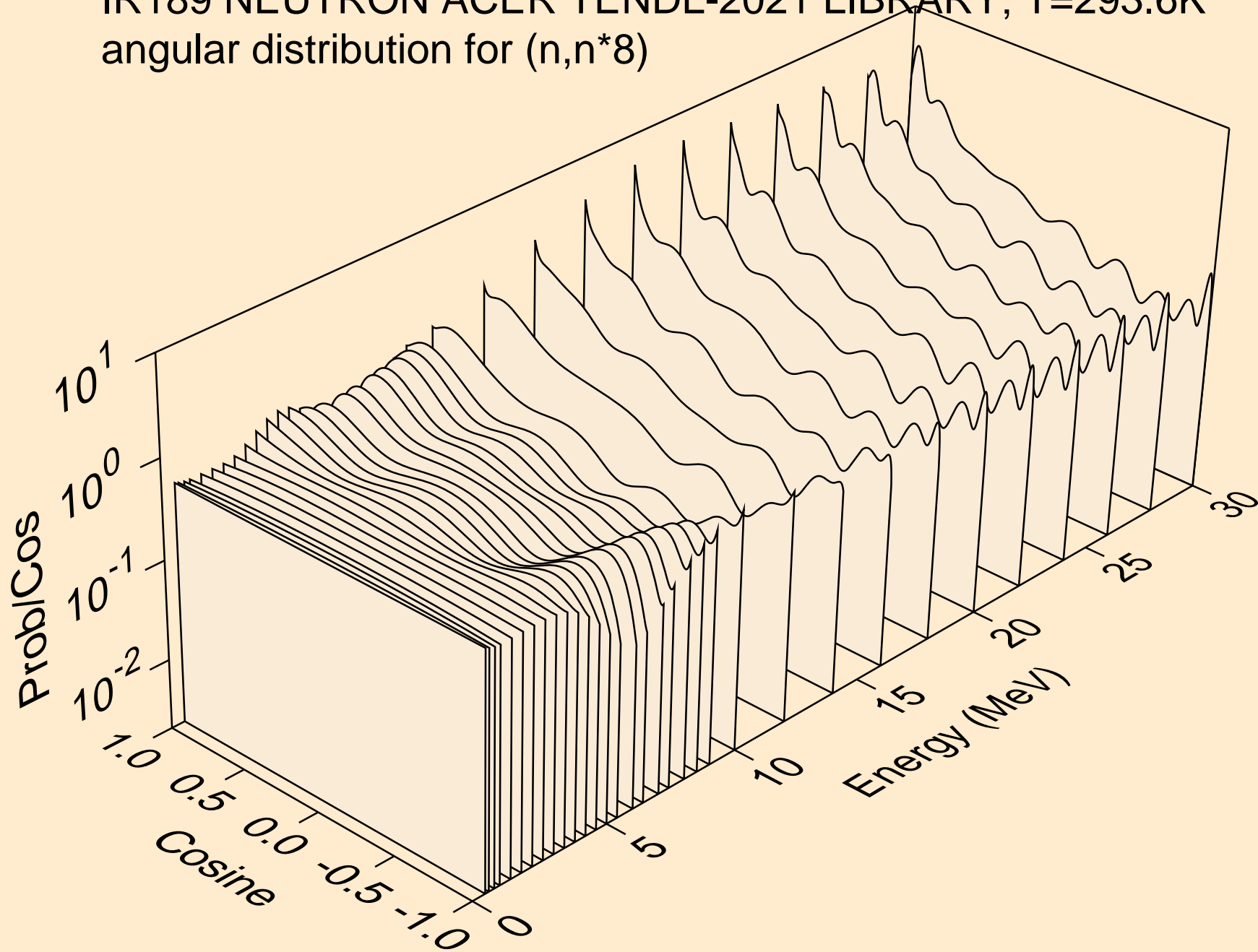
IR189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for (n,n\*6)



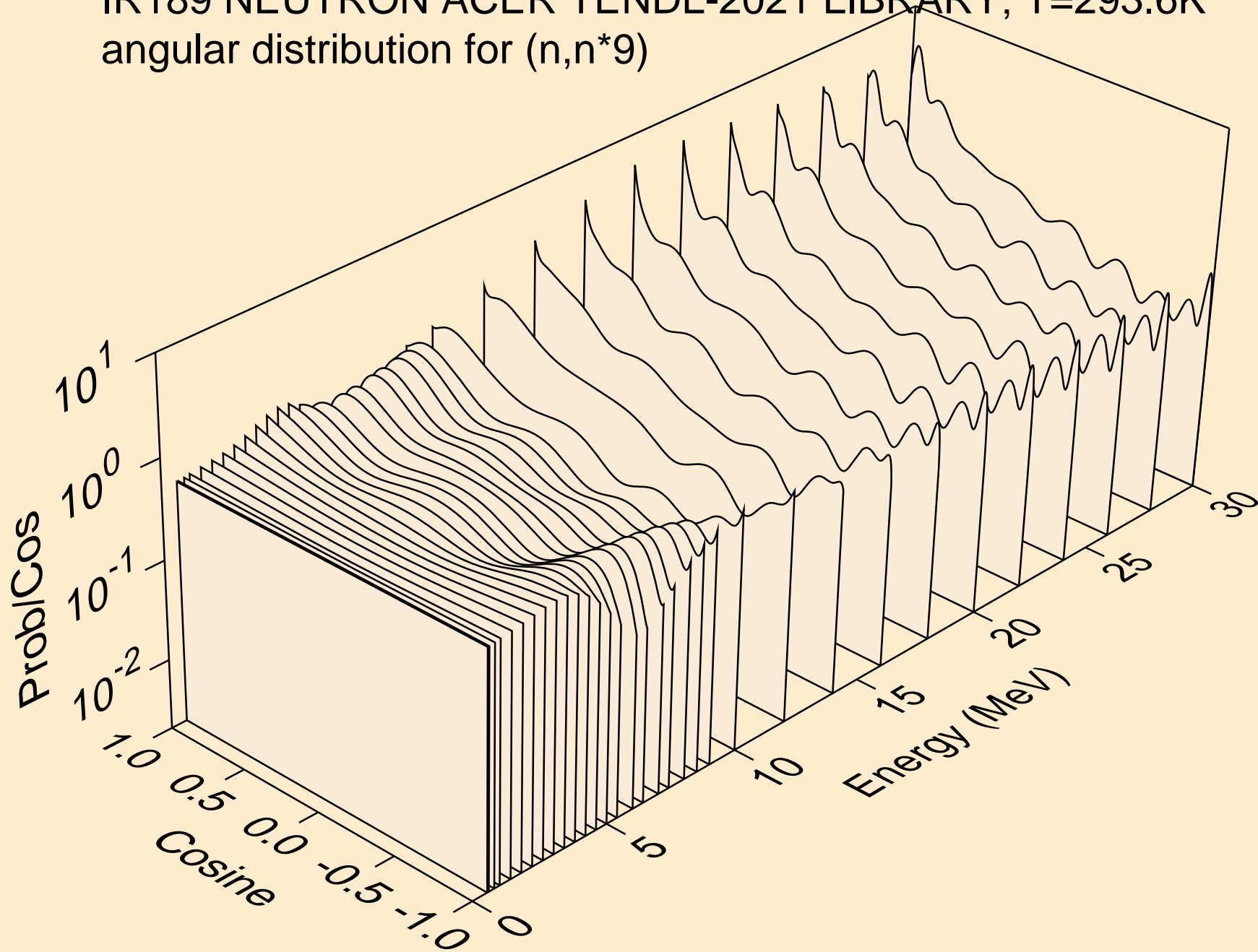
IR189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for (n,n\*7)



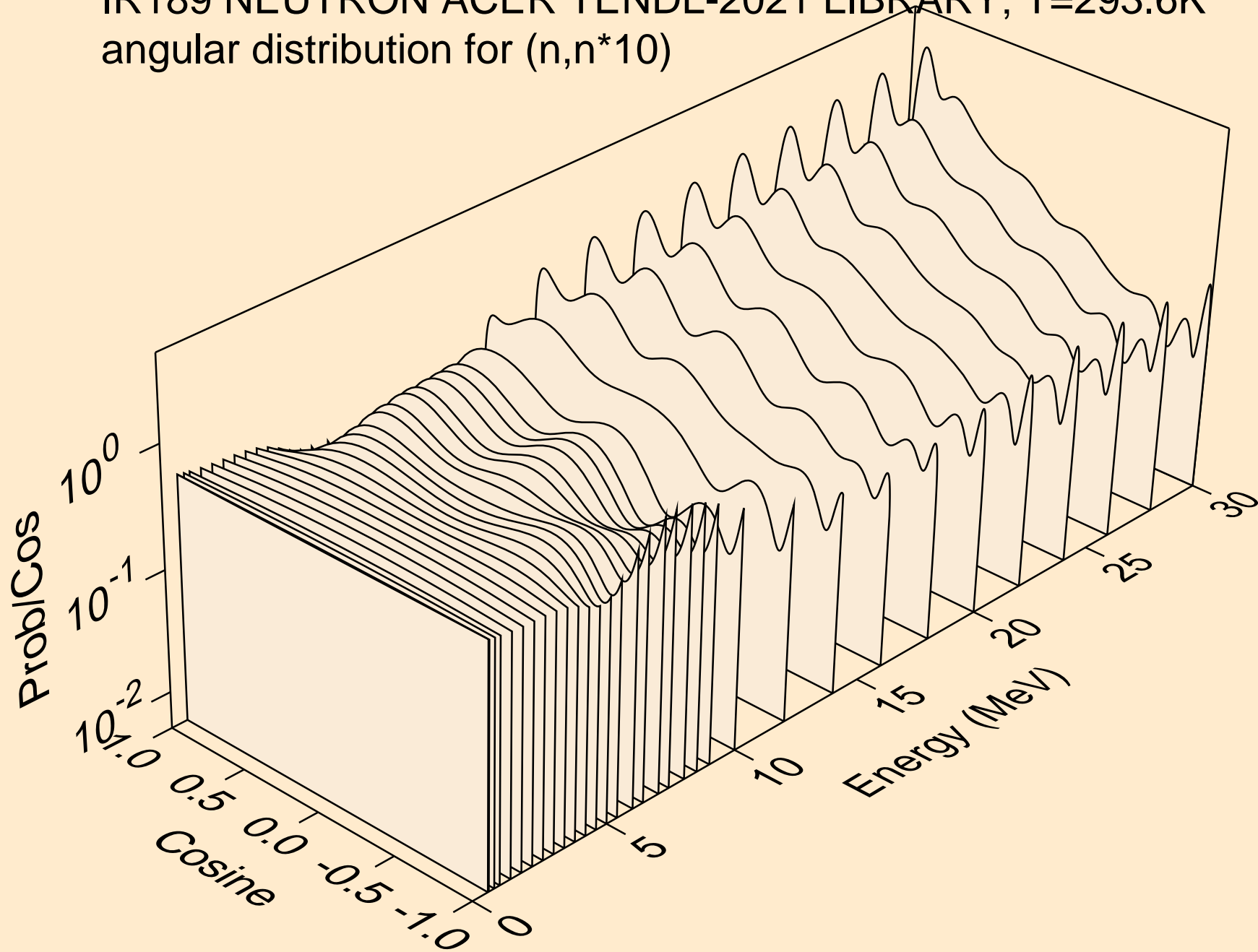
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angular distribution for (n,n\*8)



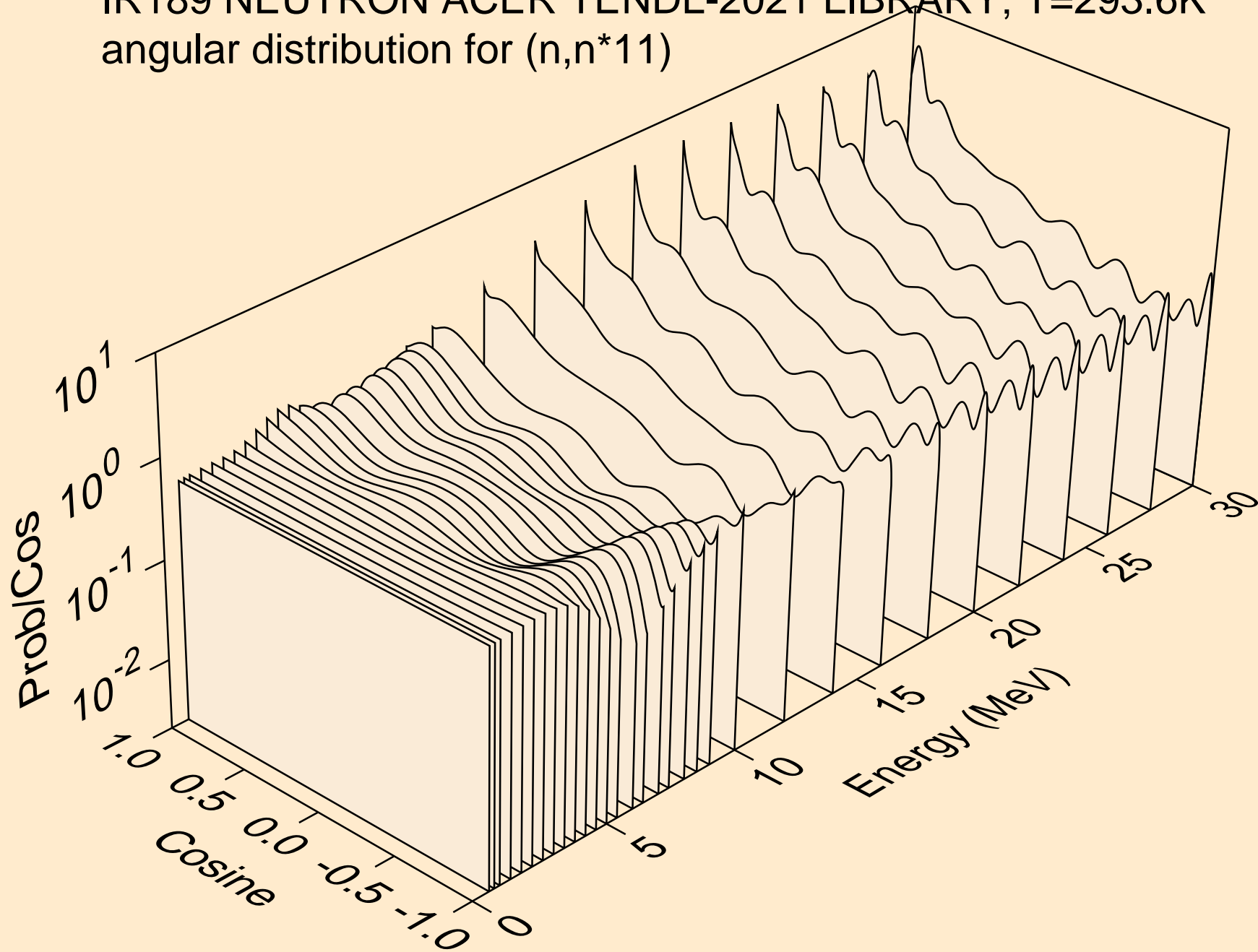
IR189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for (n,n\*9)



IR189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for (n,n\*10)

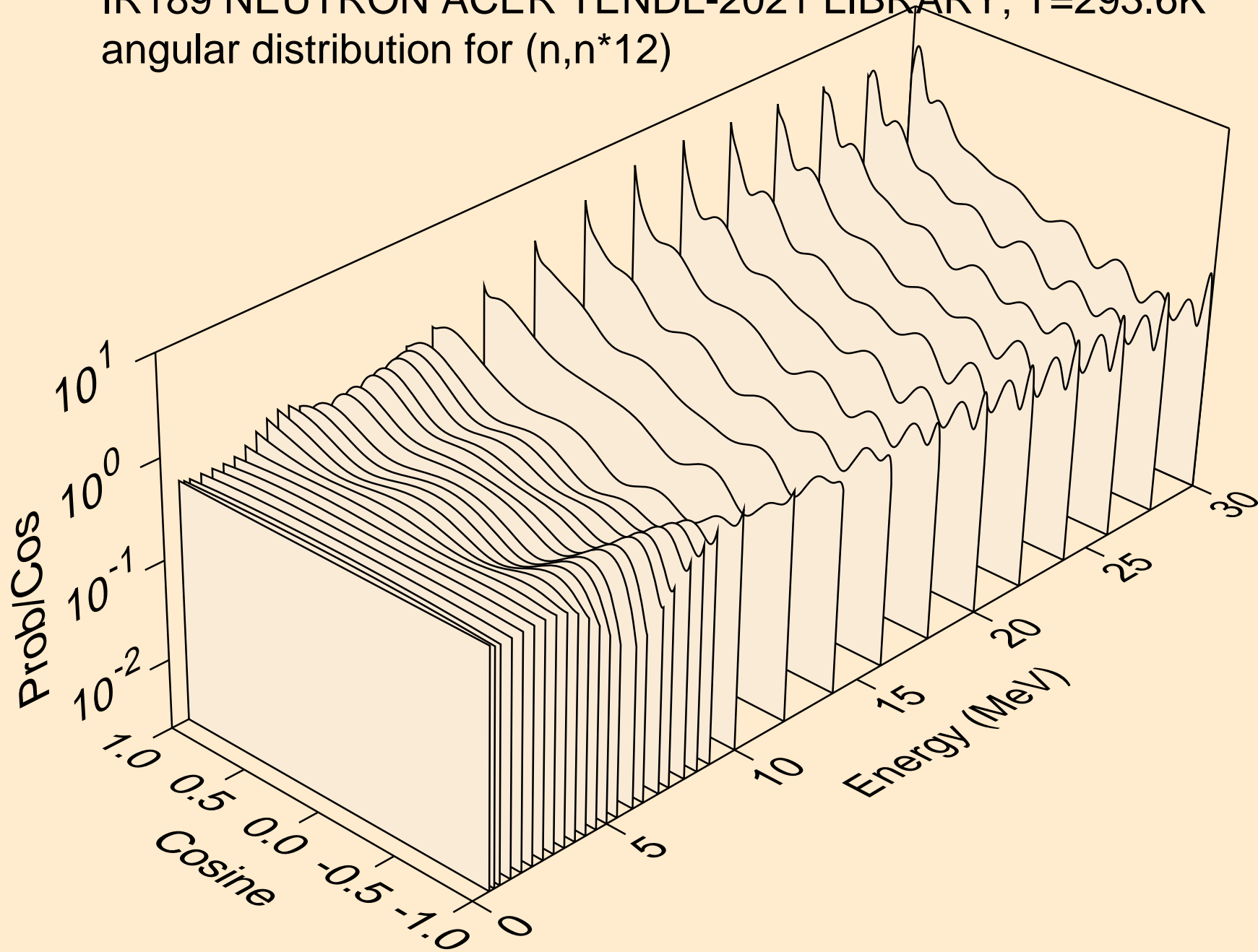


IR189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for (n,n\*11)

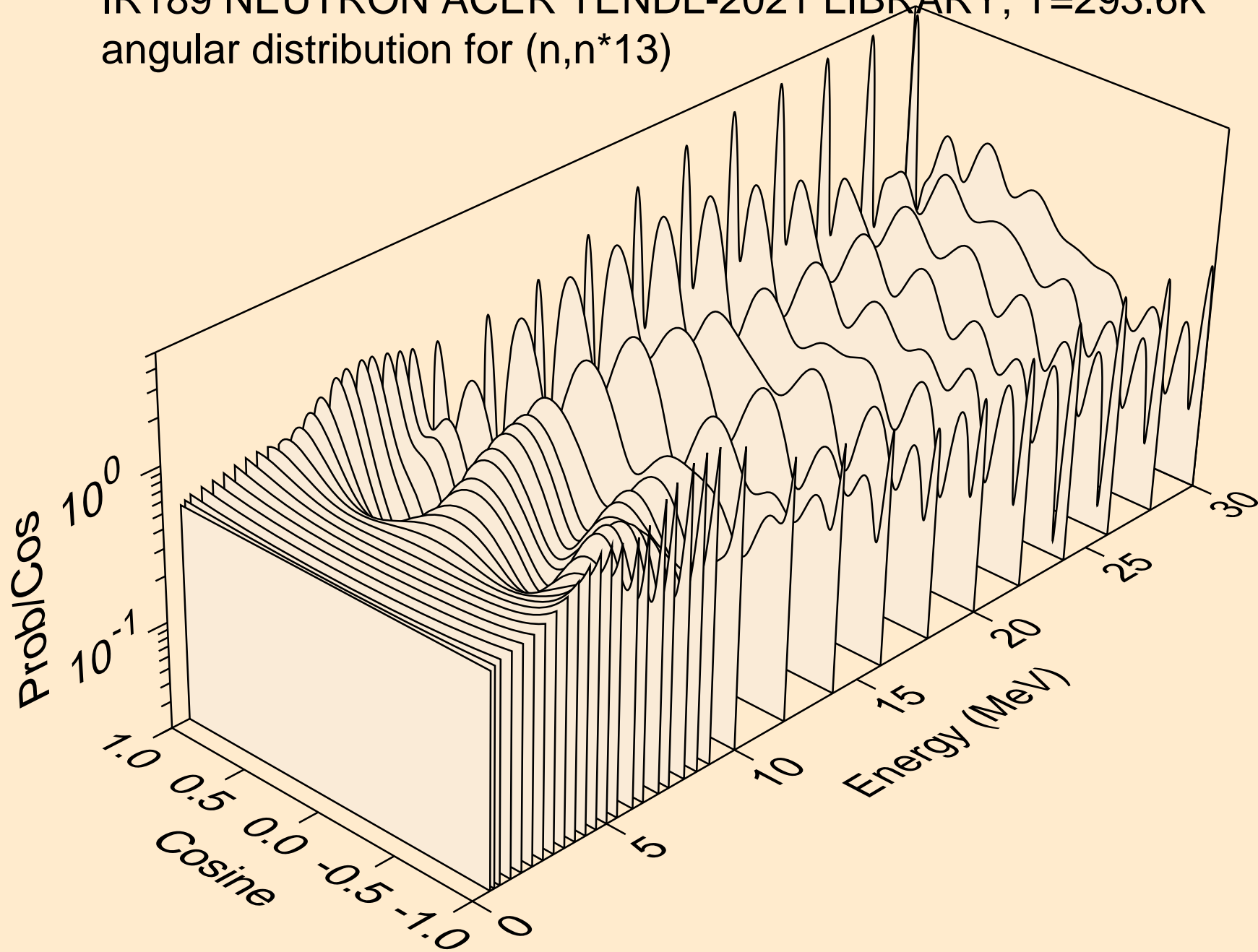




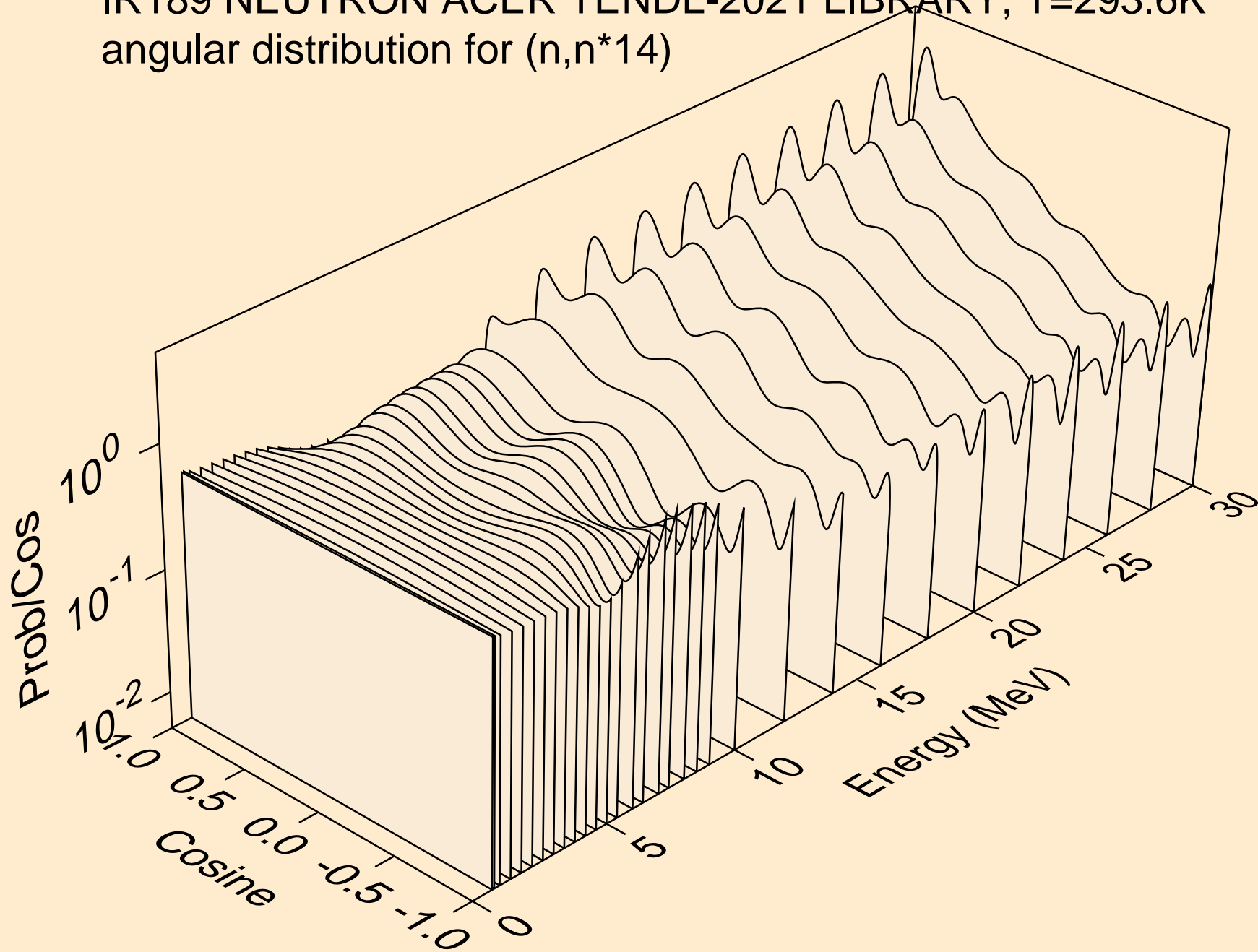
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angular distribution for (n,n\*12)



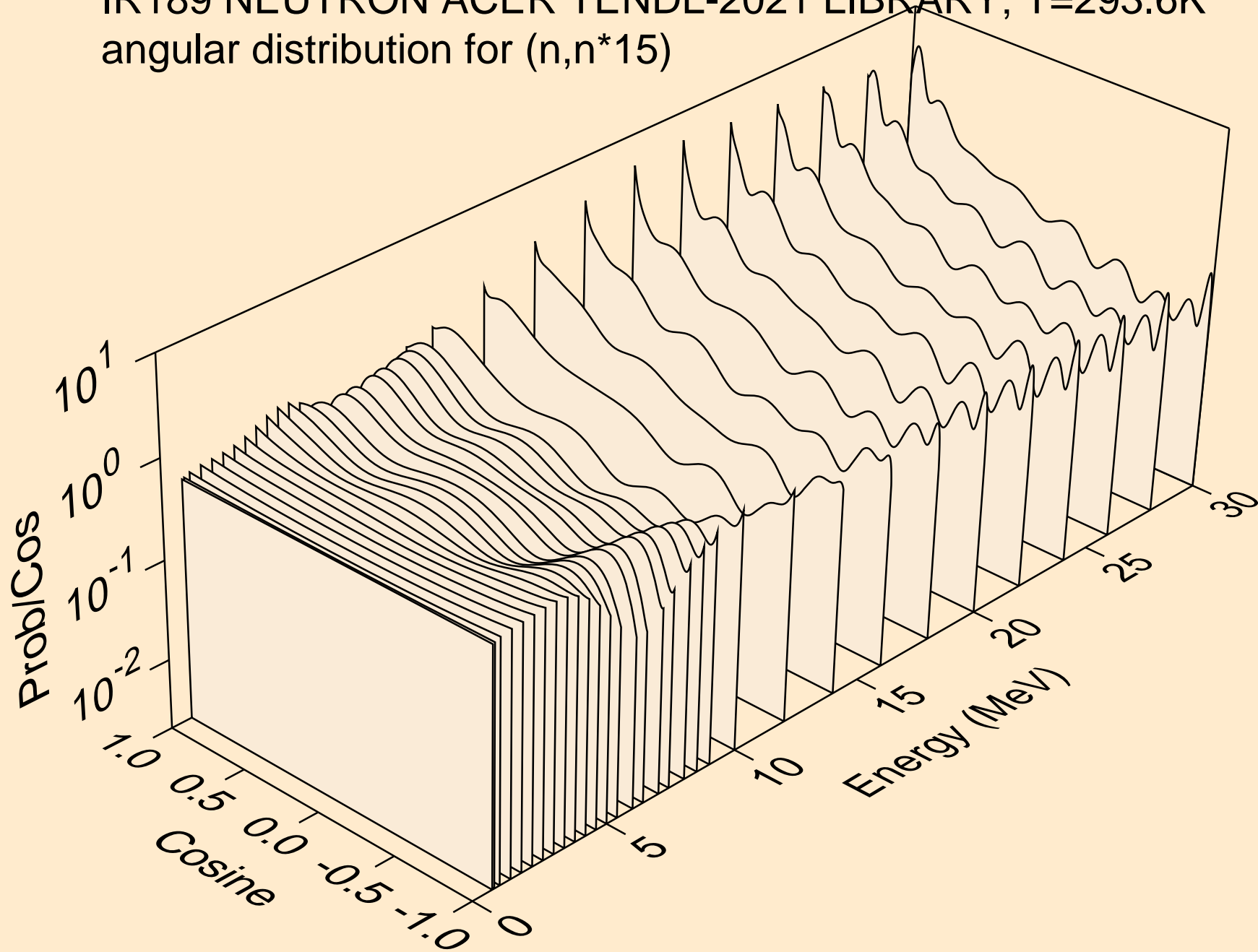
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angular distribution for (n,n\*13)



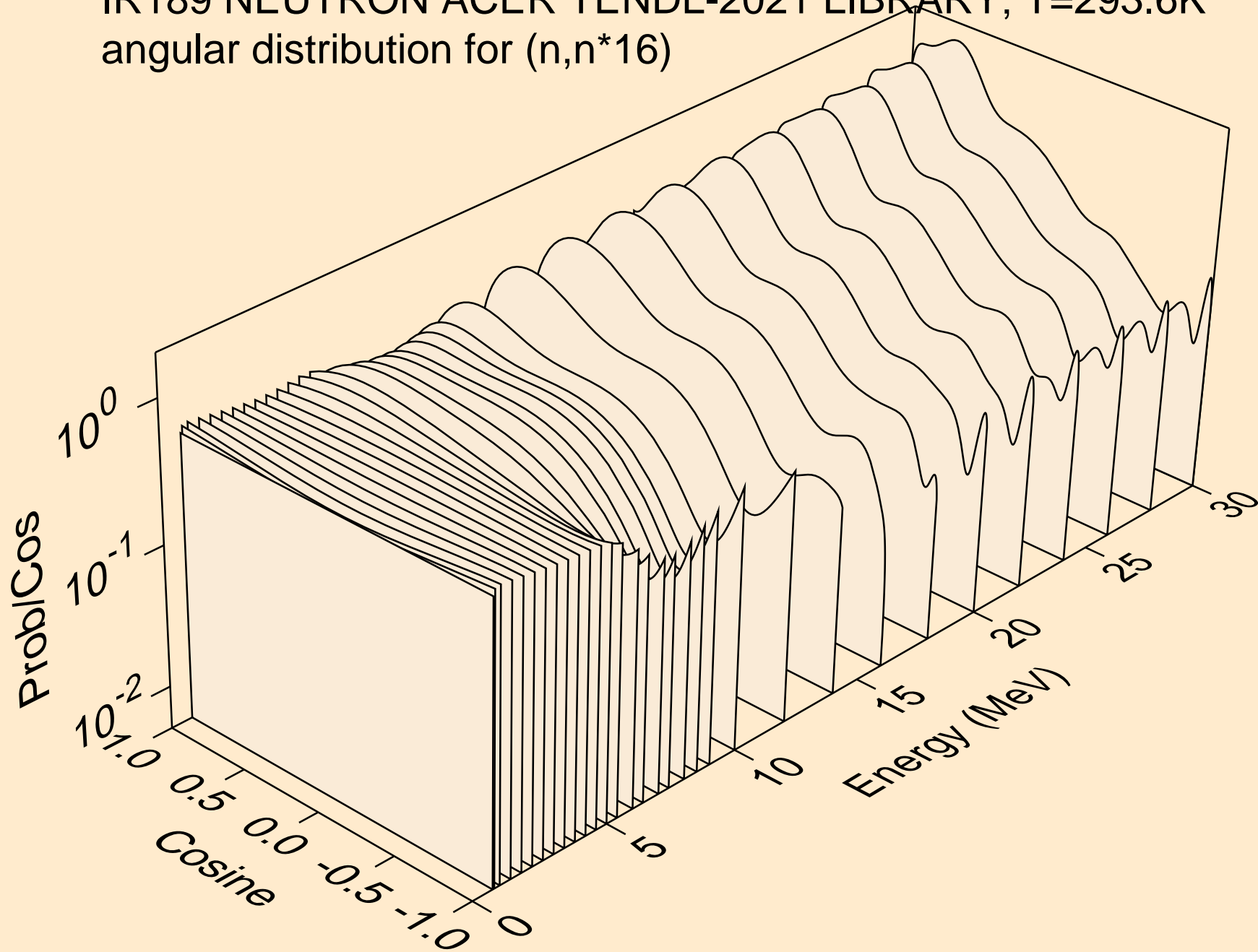
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angular distribution for (n,n\*14)



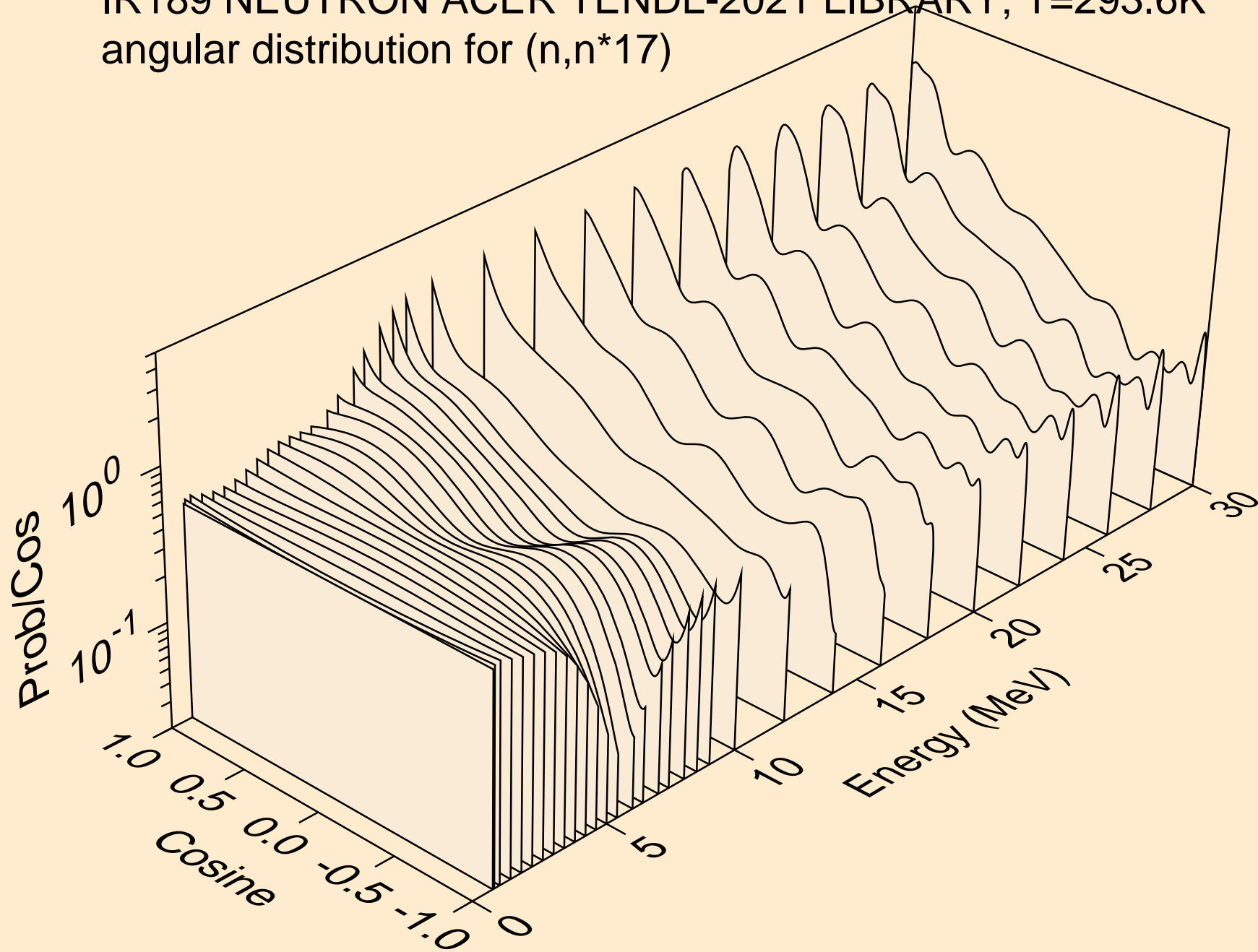
IR189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for (n,n\*15)



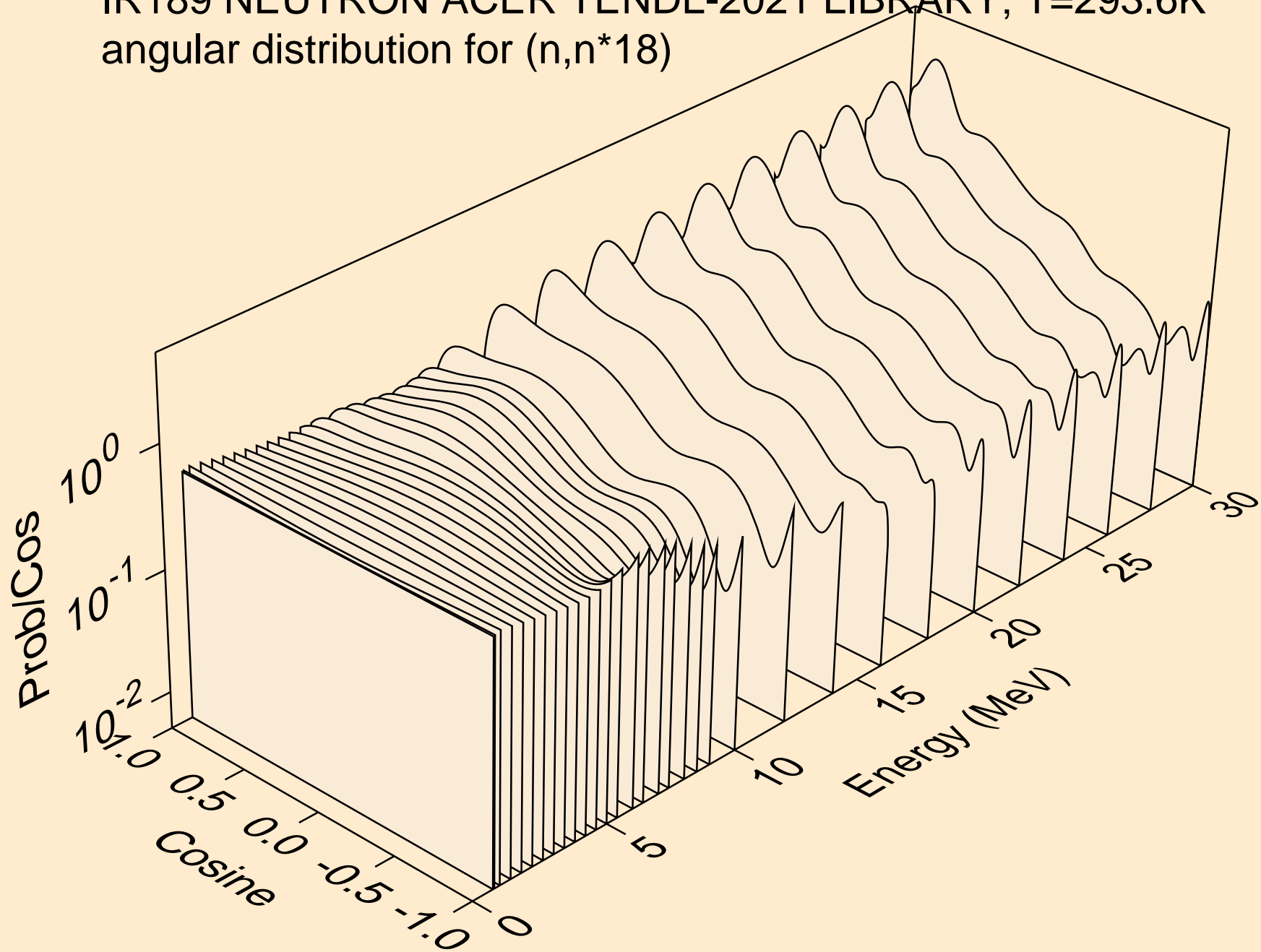
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angular distribution for (n,n\*16)



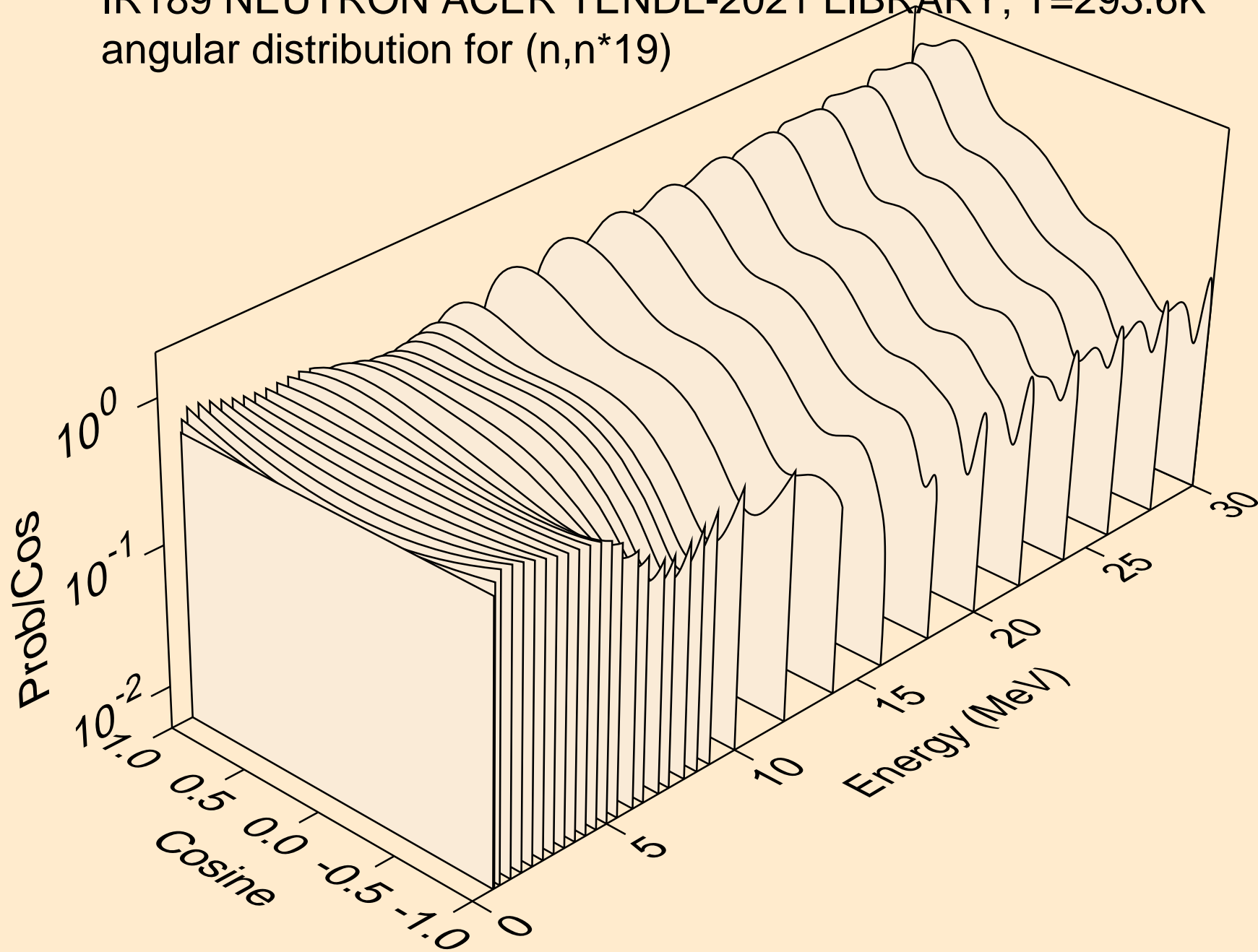
IR189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for (n,n\*17)



IR189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for (n,n\*18)

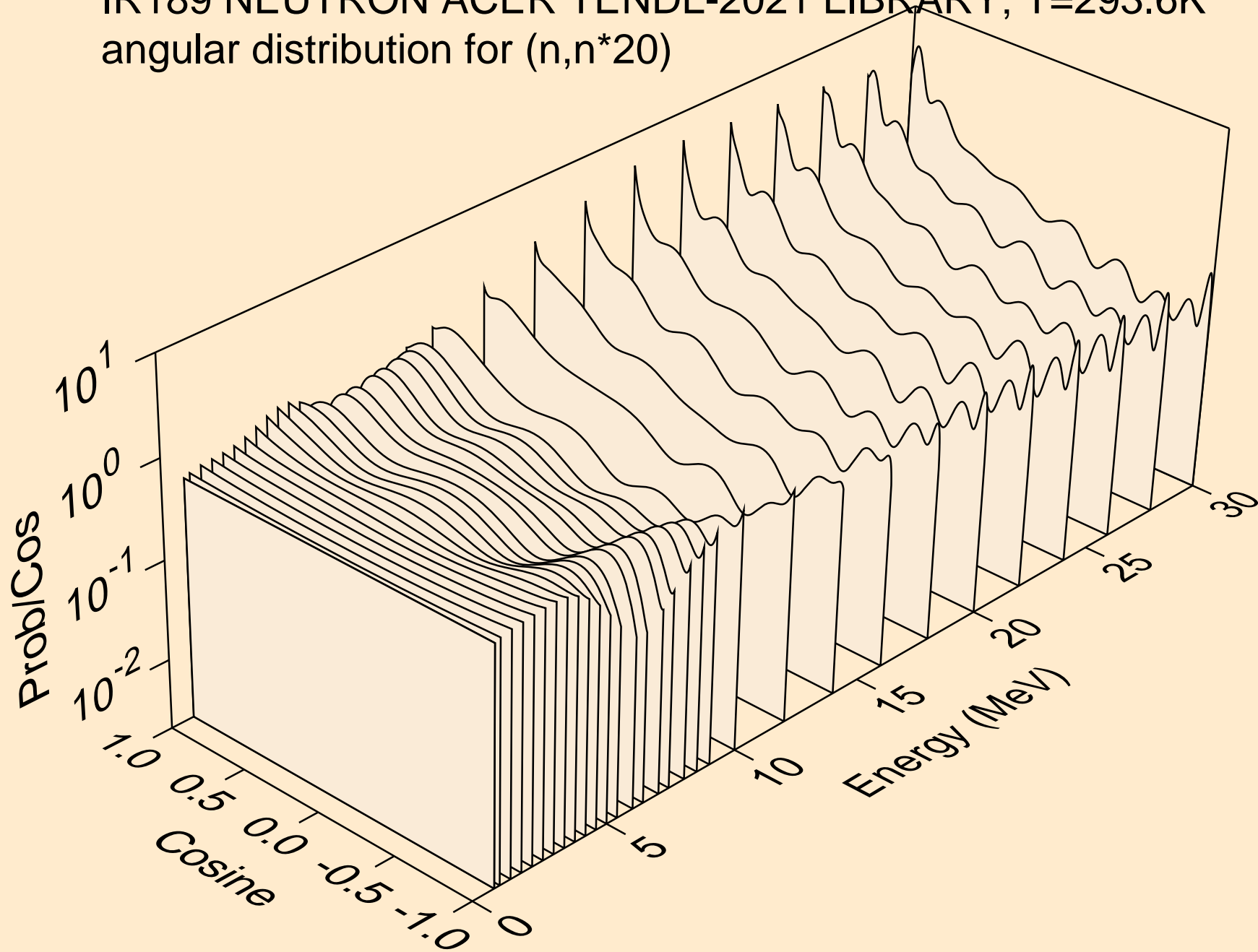


IR189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for (n,n\*19)

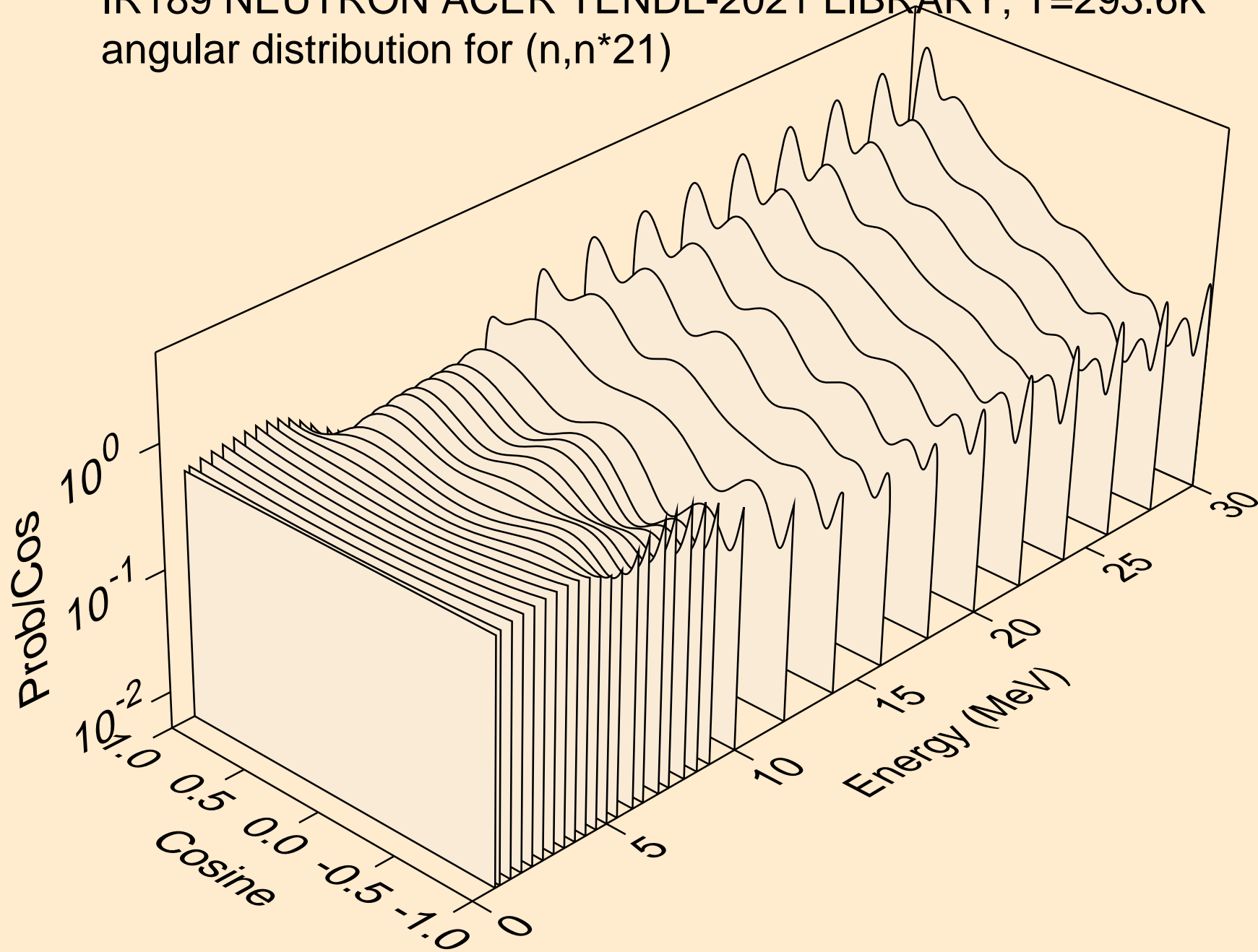




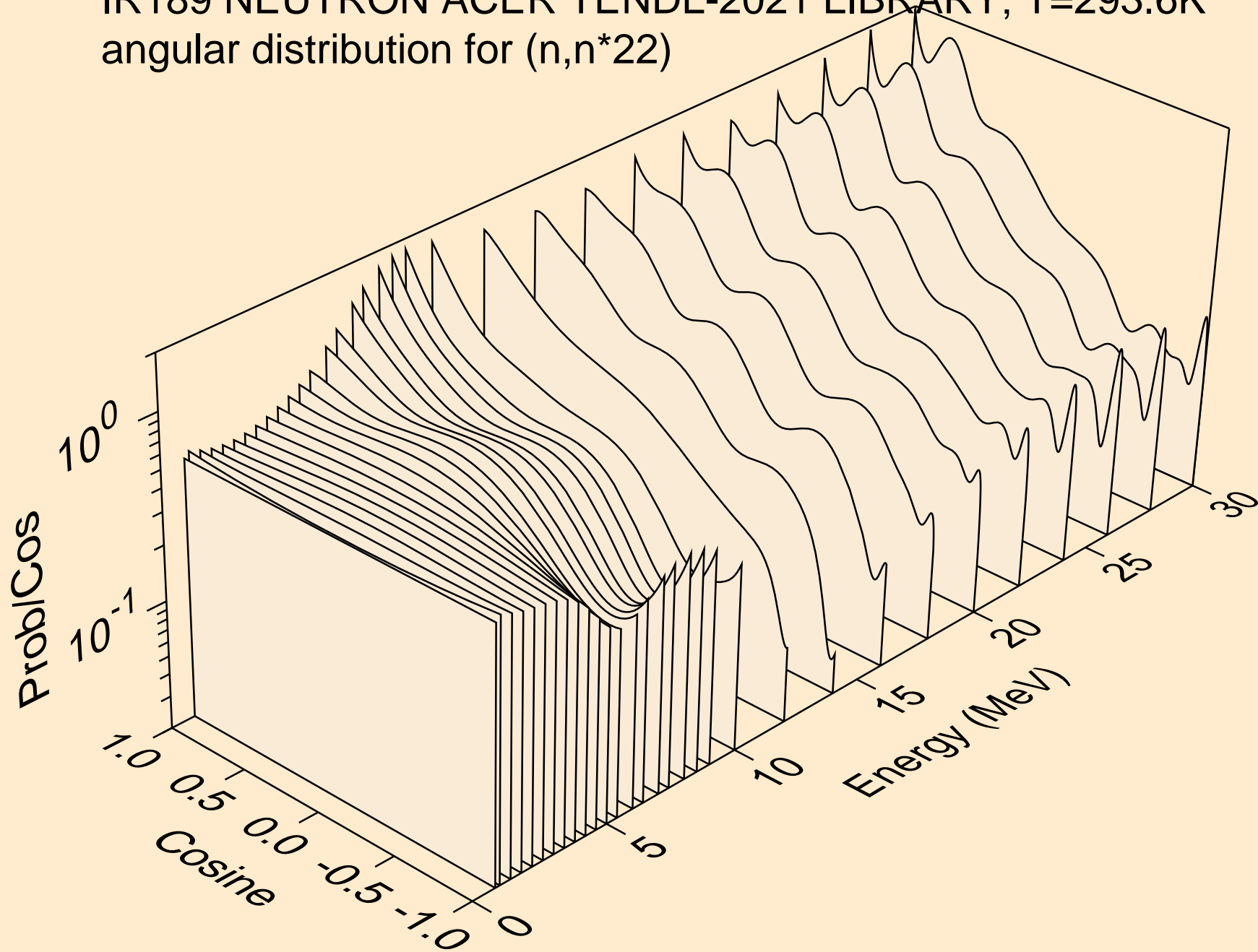
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angular distribution for (n,n\*20)



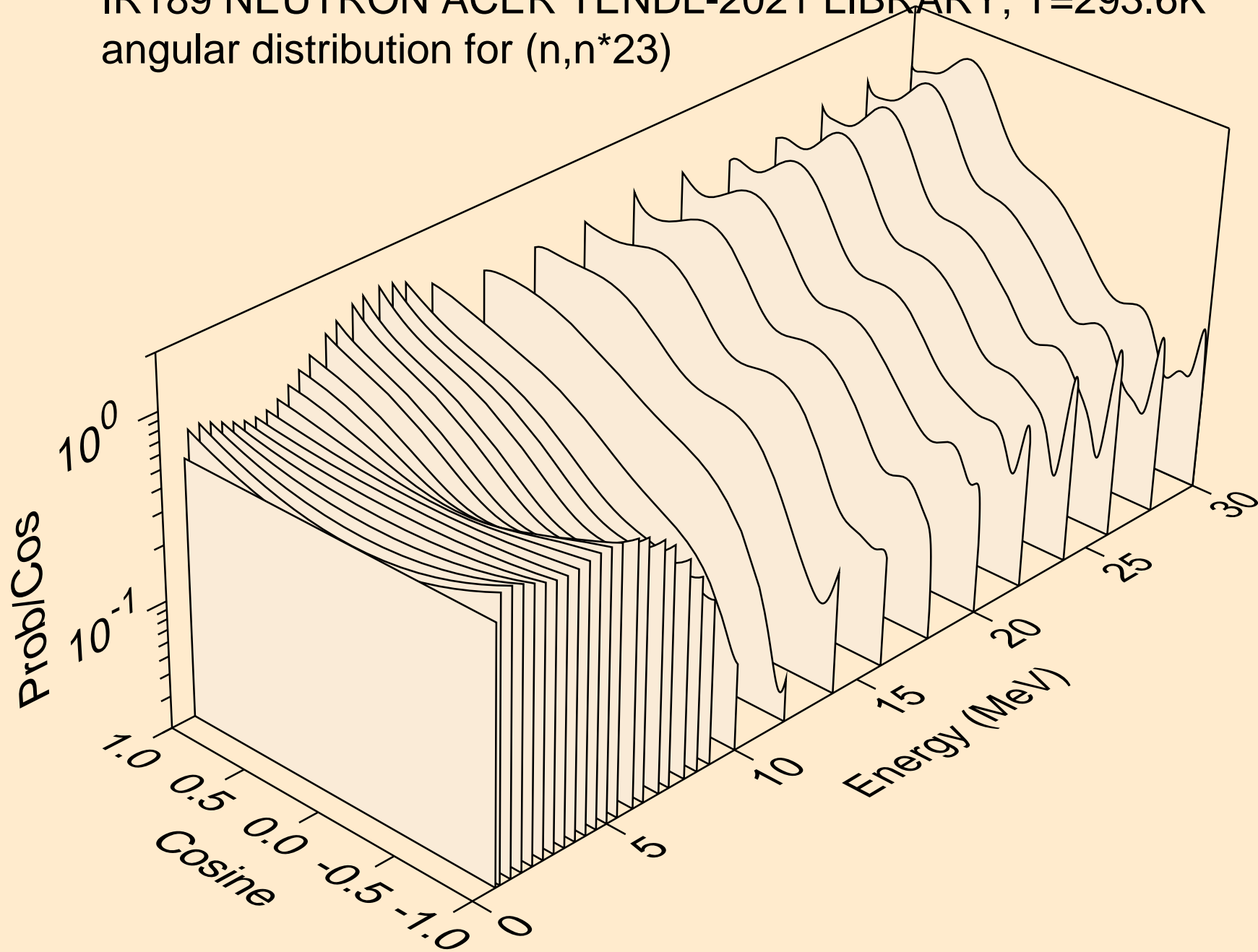
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angular distribution for (n,n\*21)



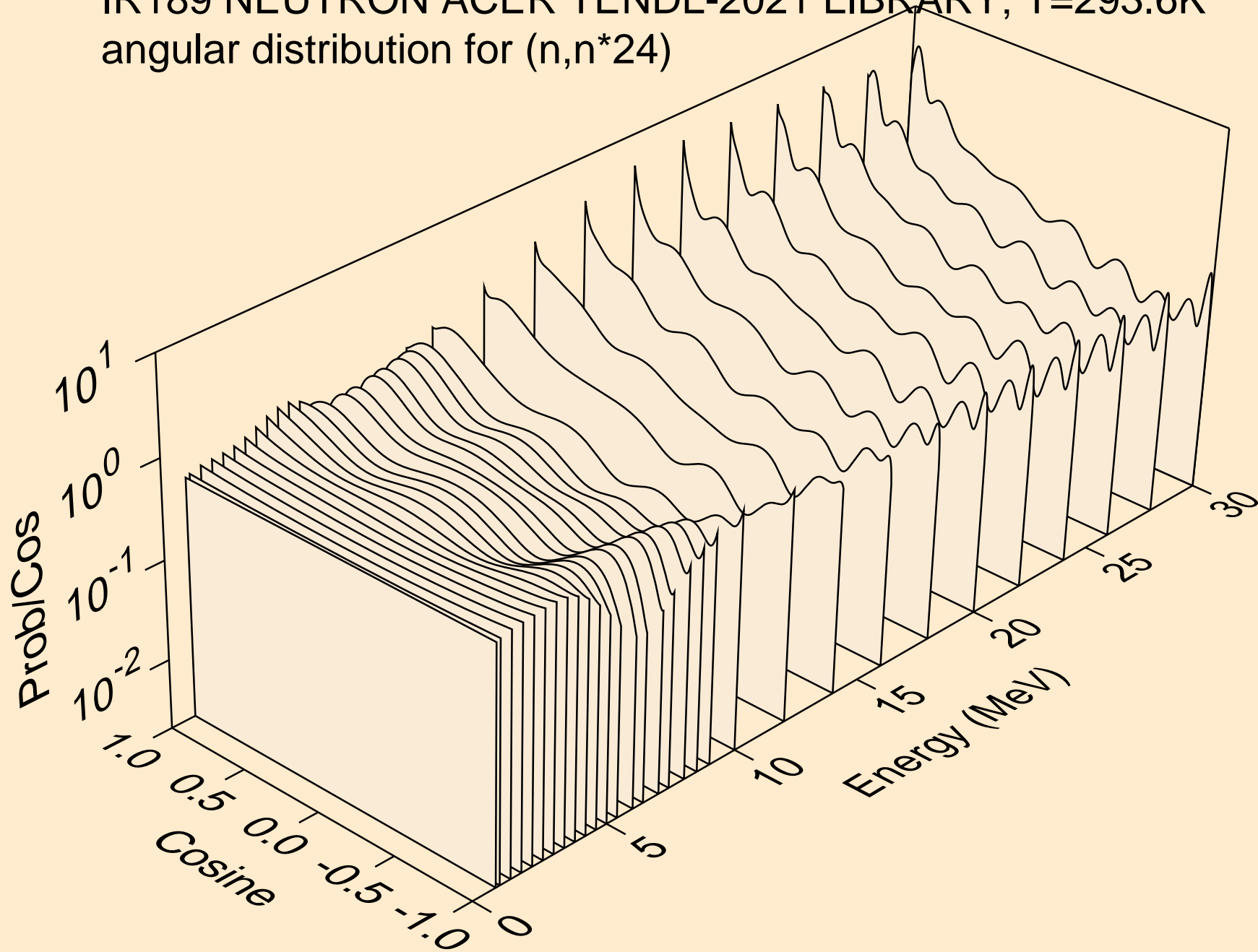
IR189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for (n,n\*22)



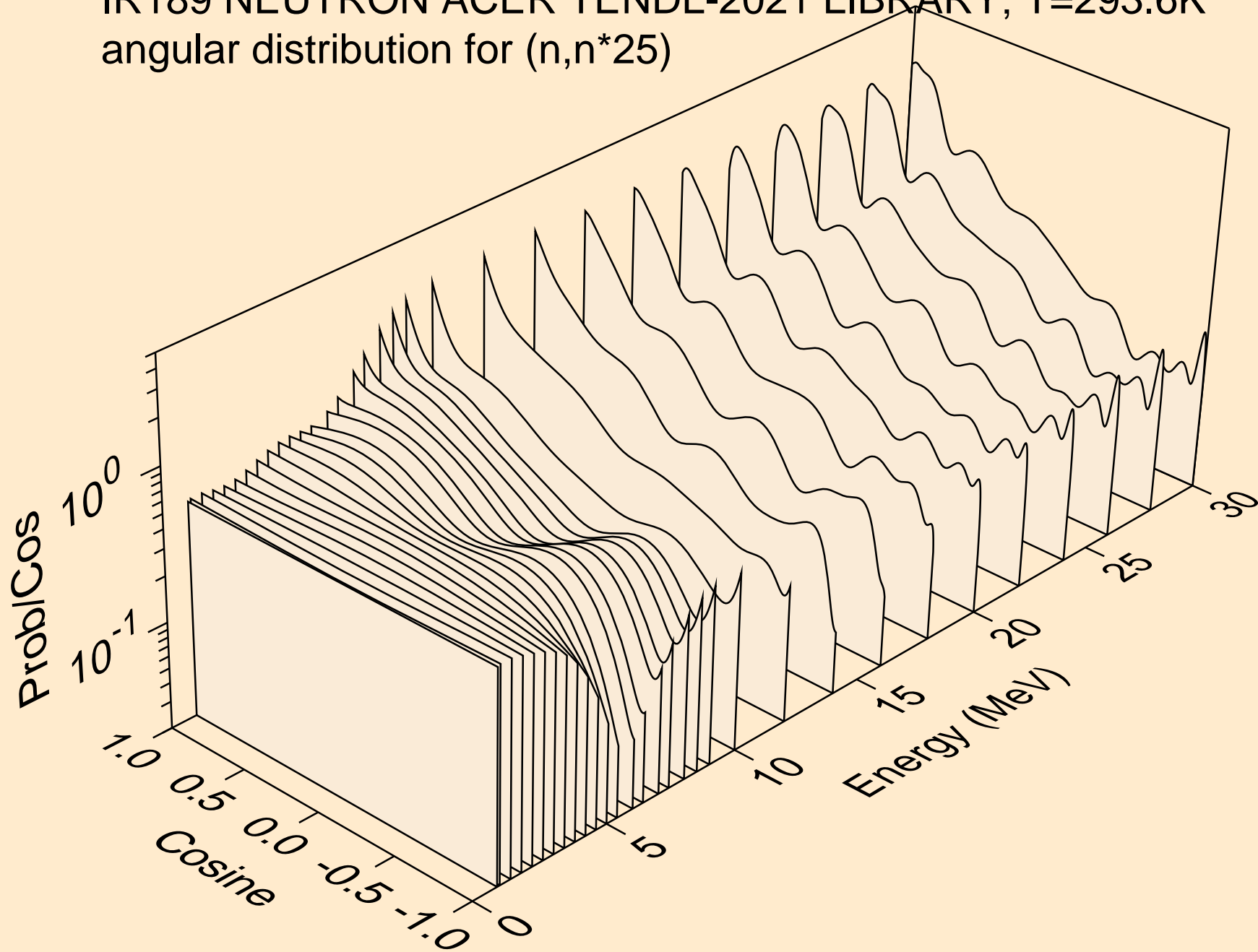
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angular distribution for (n,n\*23)



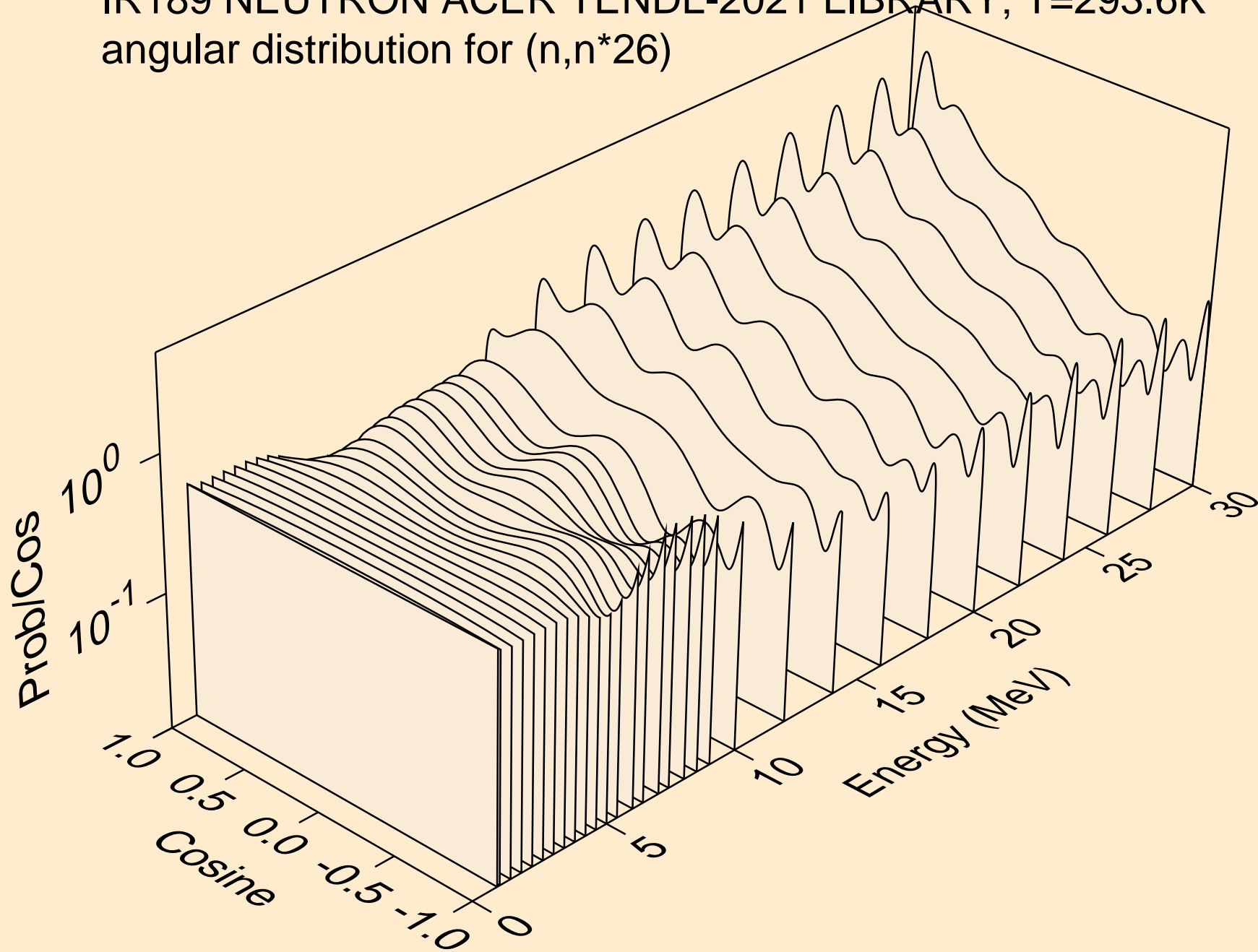
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angular distribution for (n,n\*24)



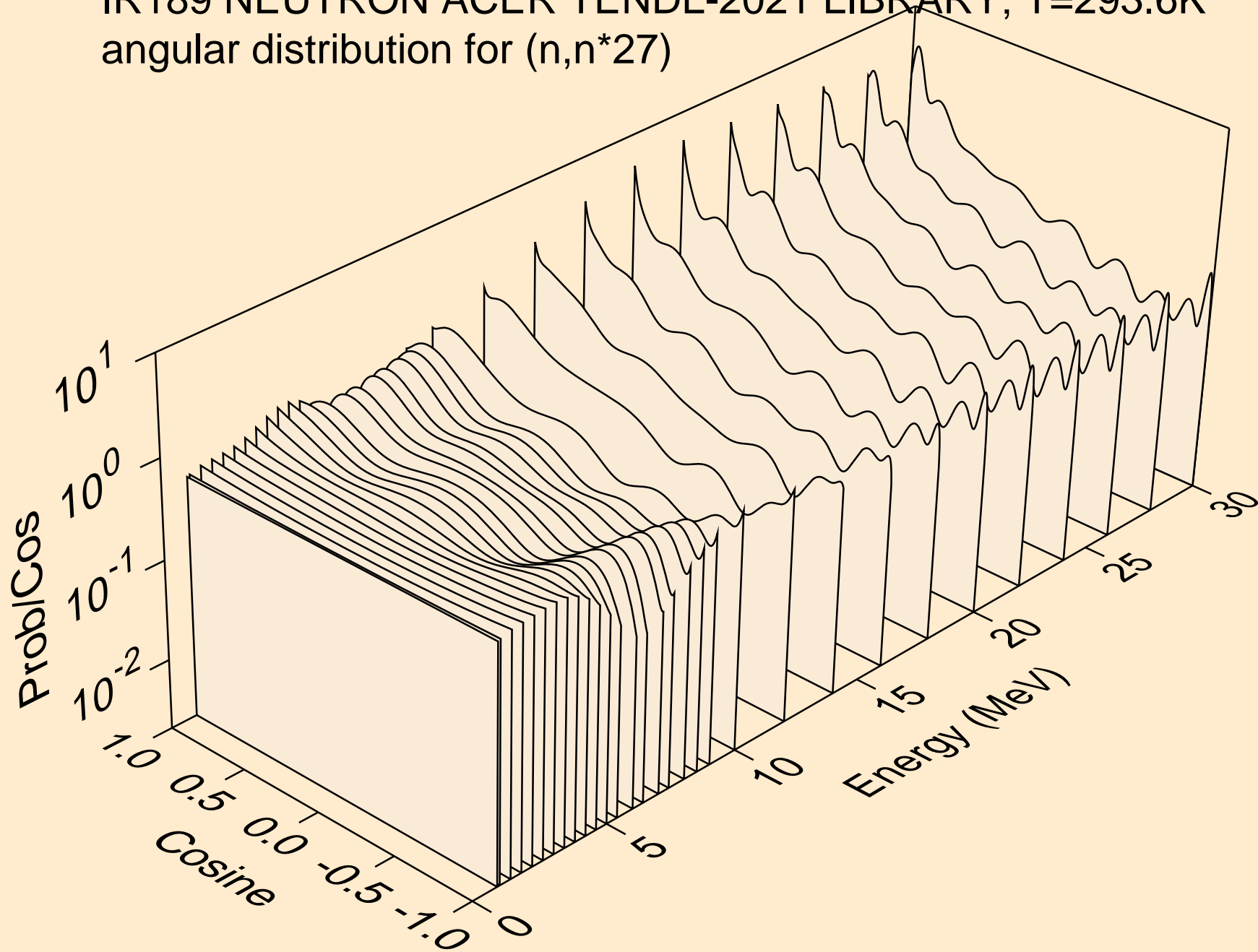
IR189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for (n,n\*25)



IR189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for (n,n\*26)

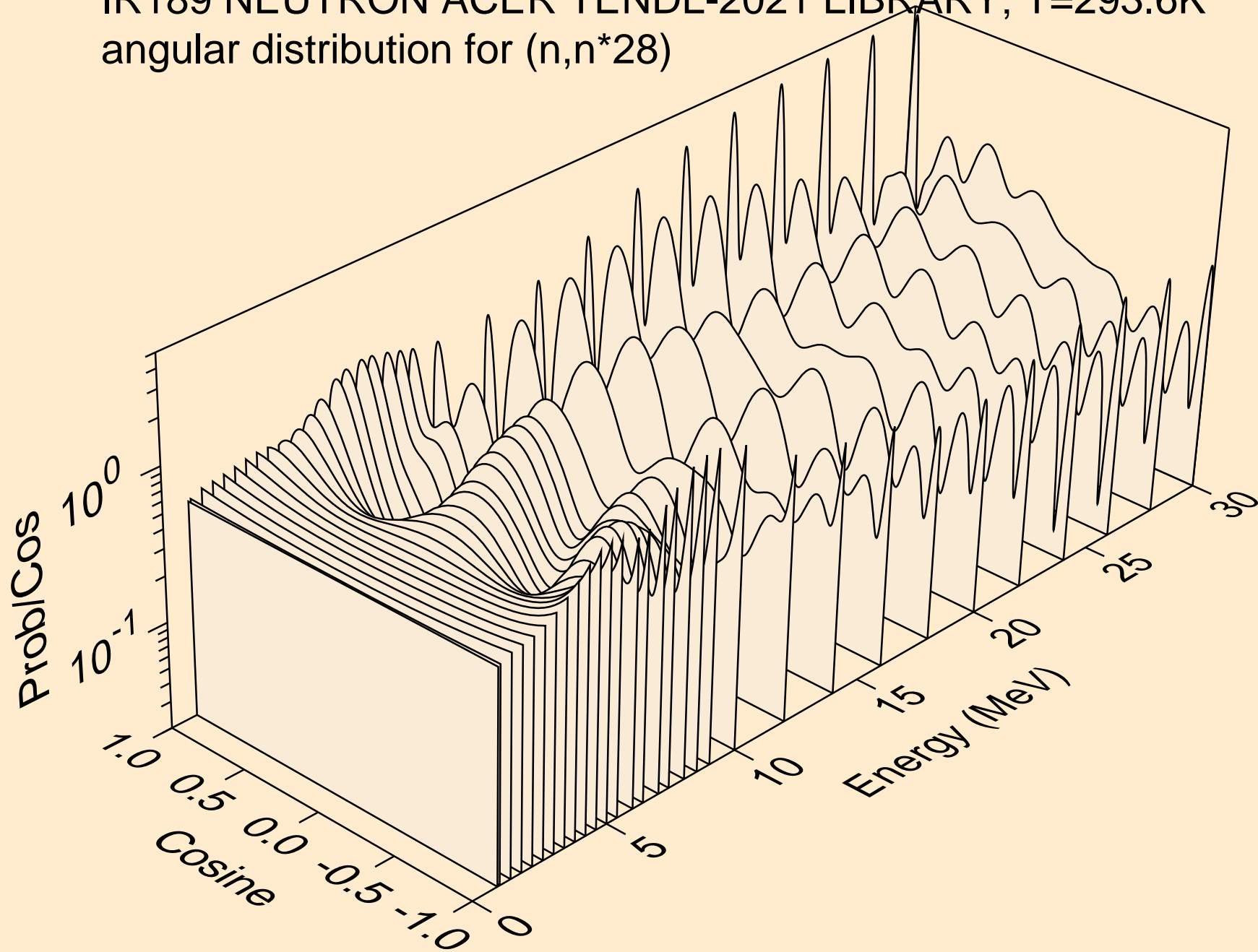


IR189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for (n,n\*27)

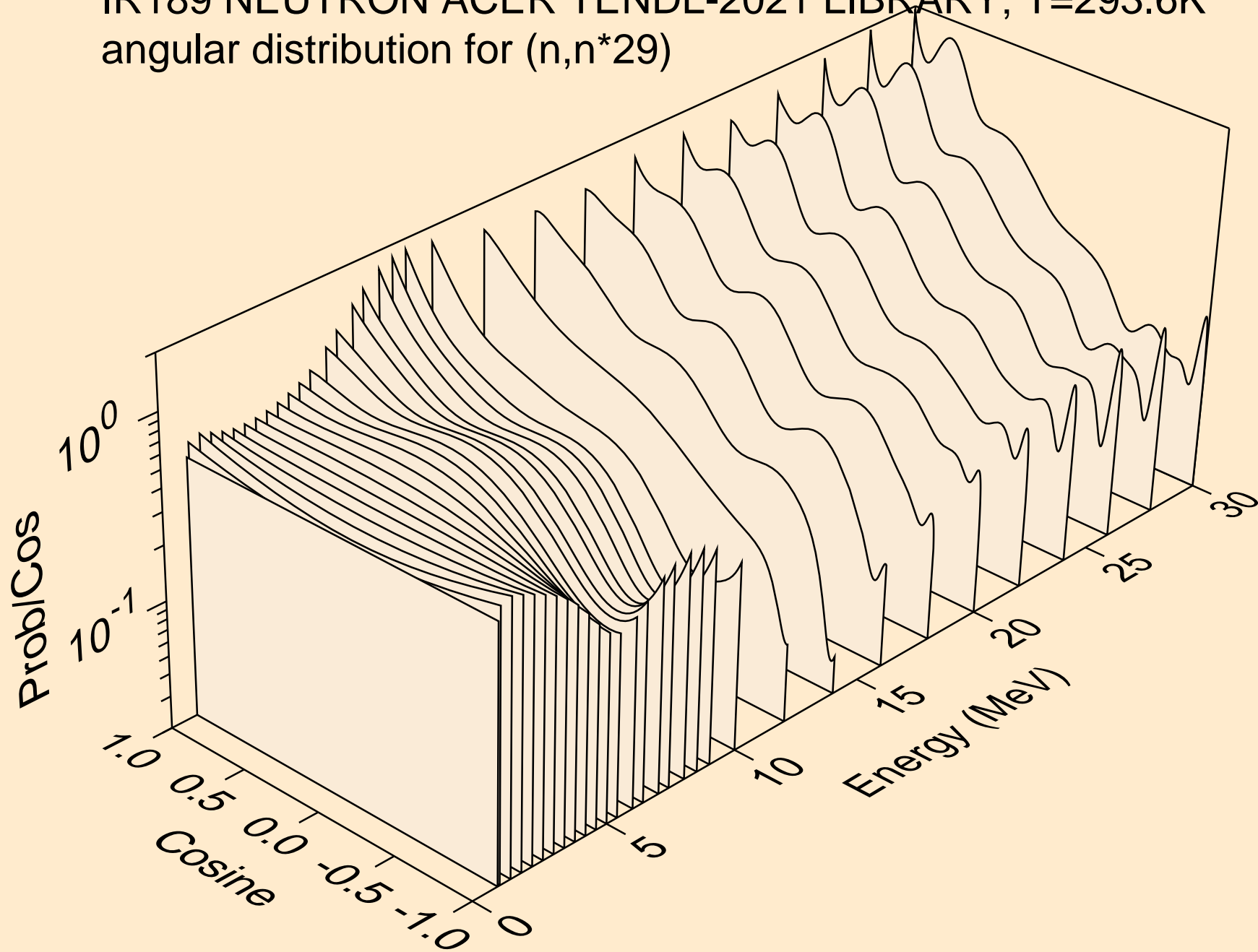




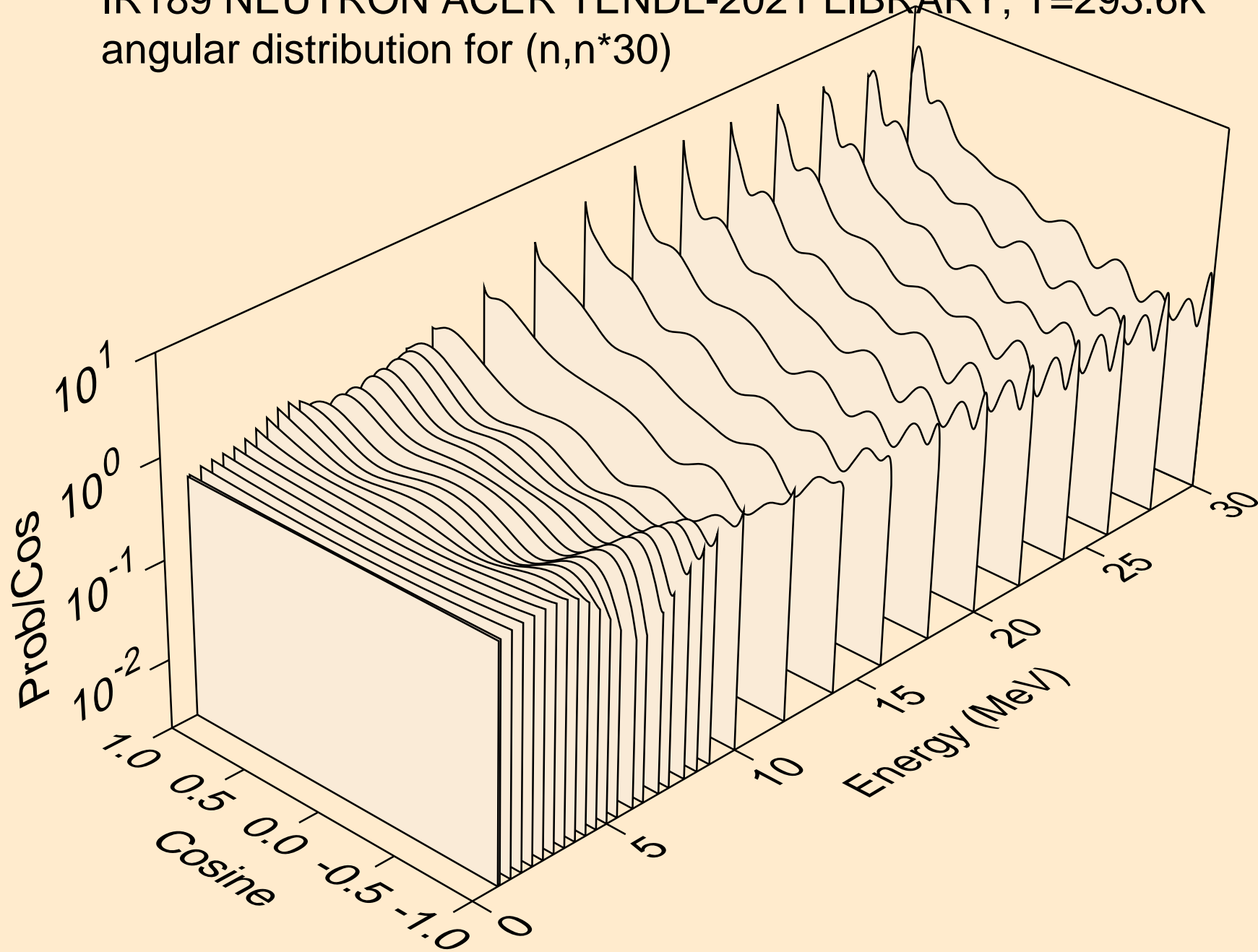
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angular distribution for (n,n\*28)



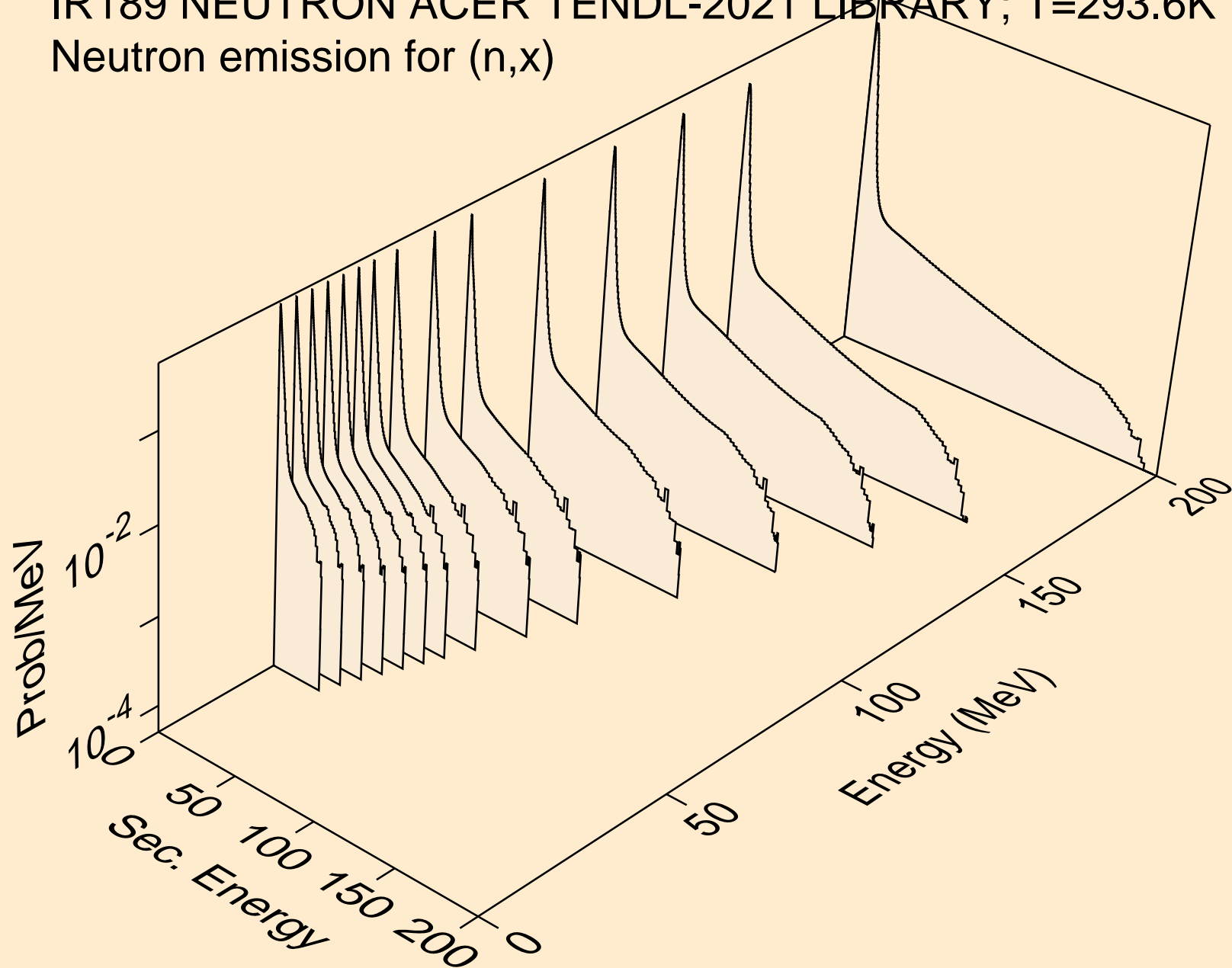
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angular distribution for (n,n\*29)



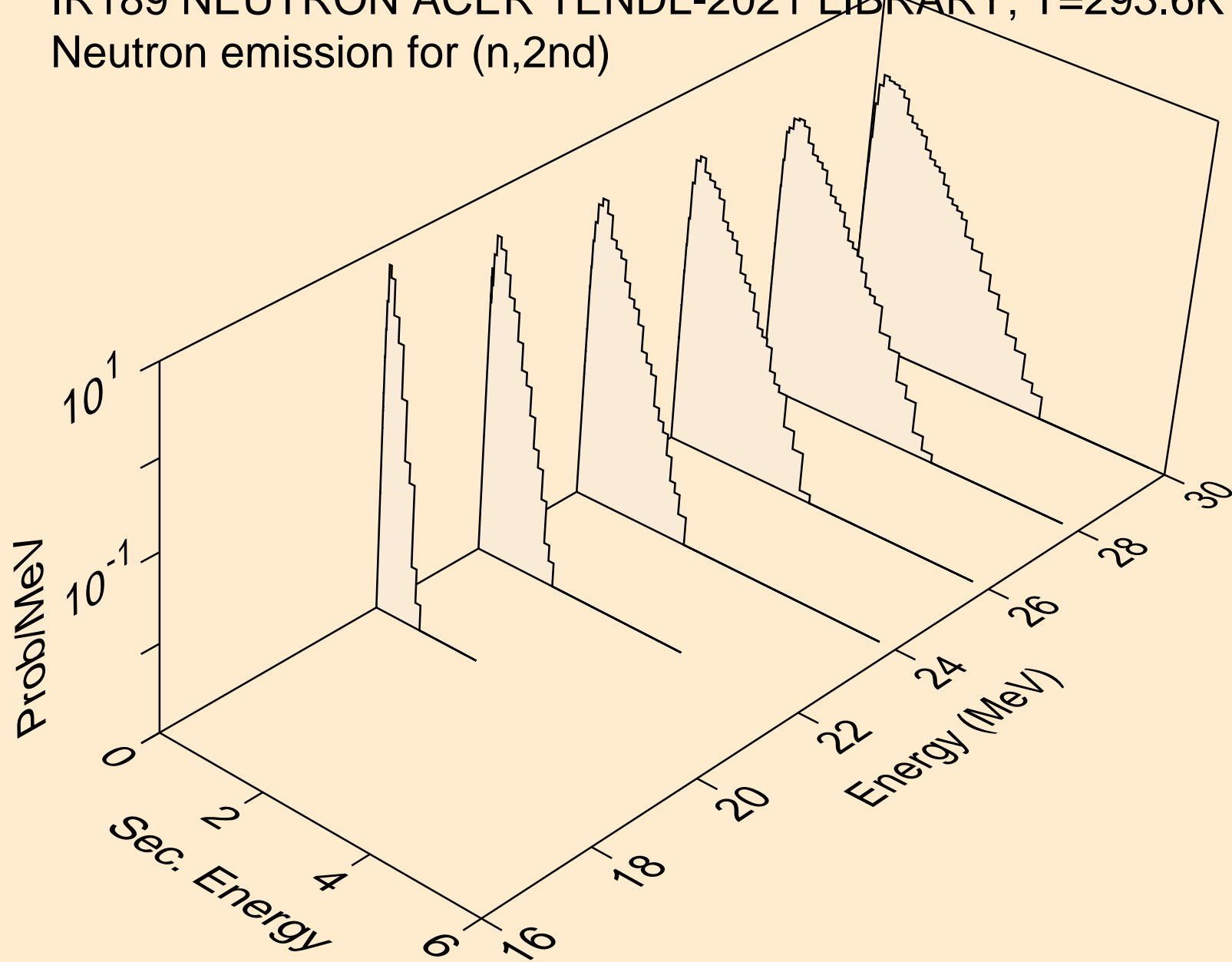
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angular distribution for (n,n\*30)



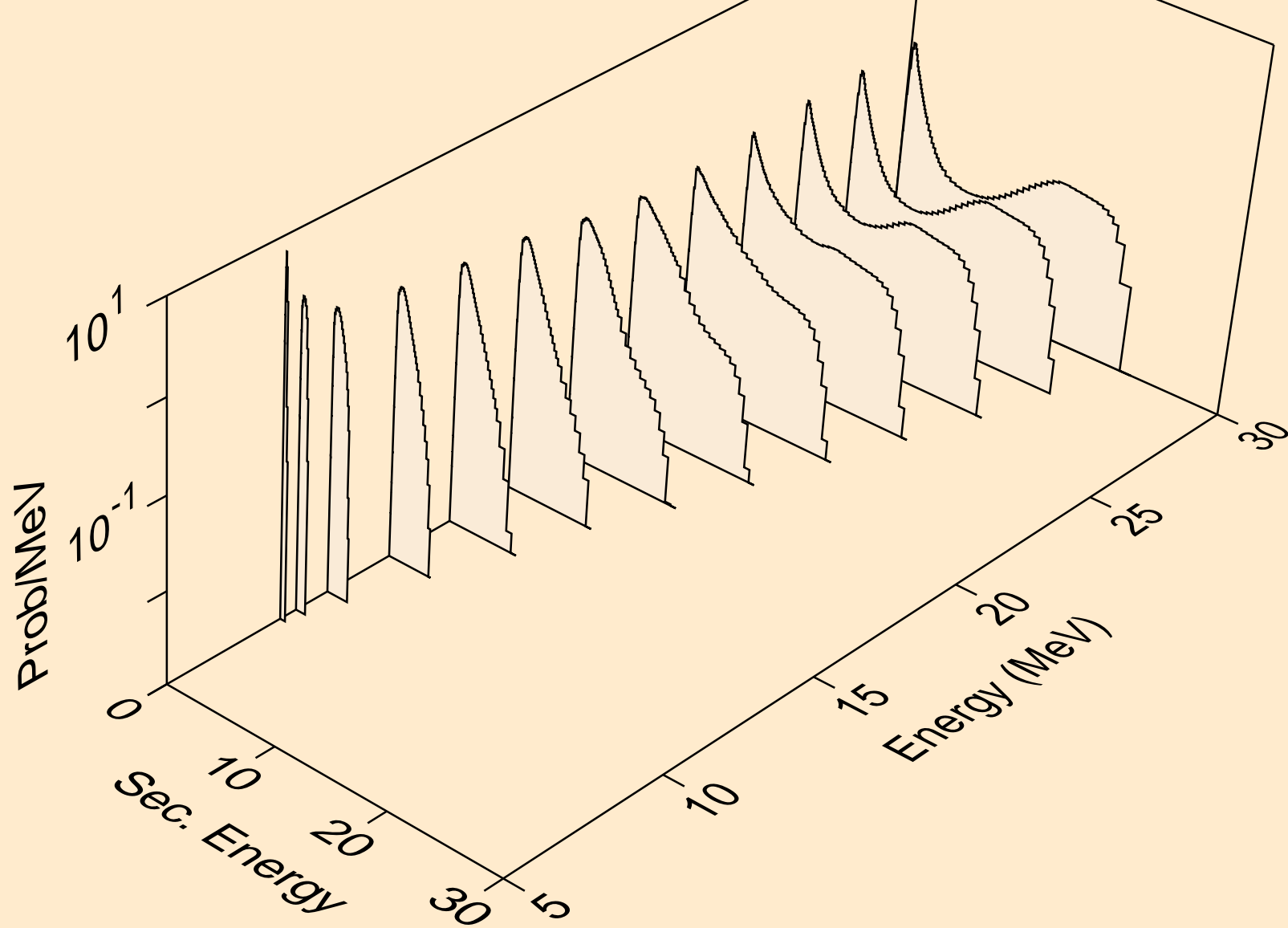
IR189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,x)



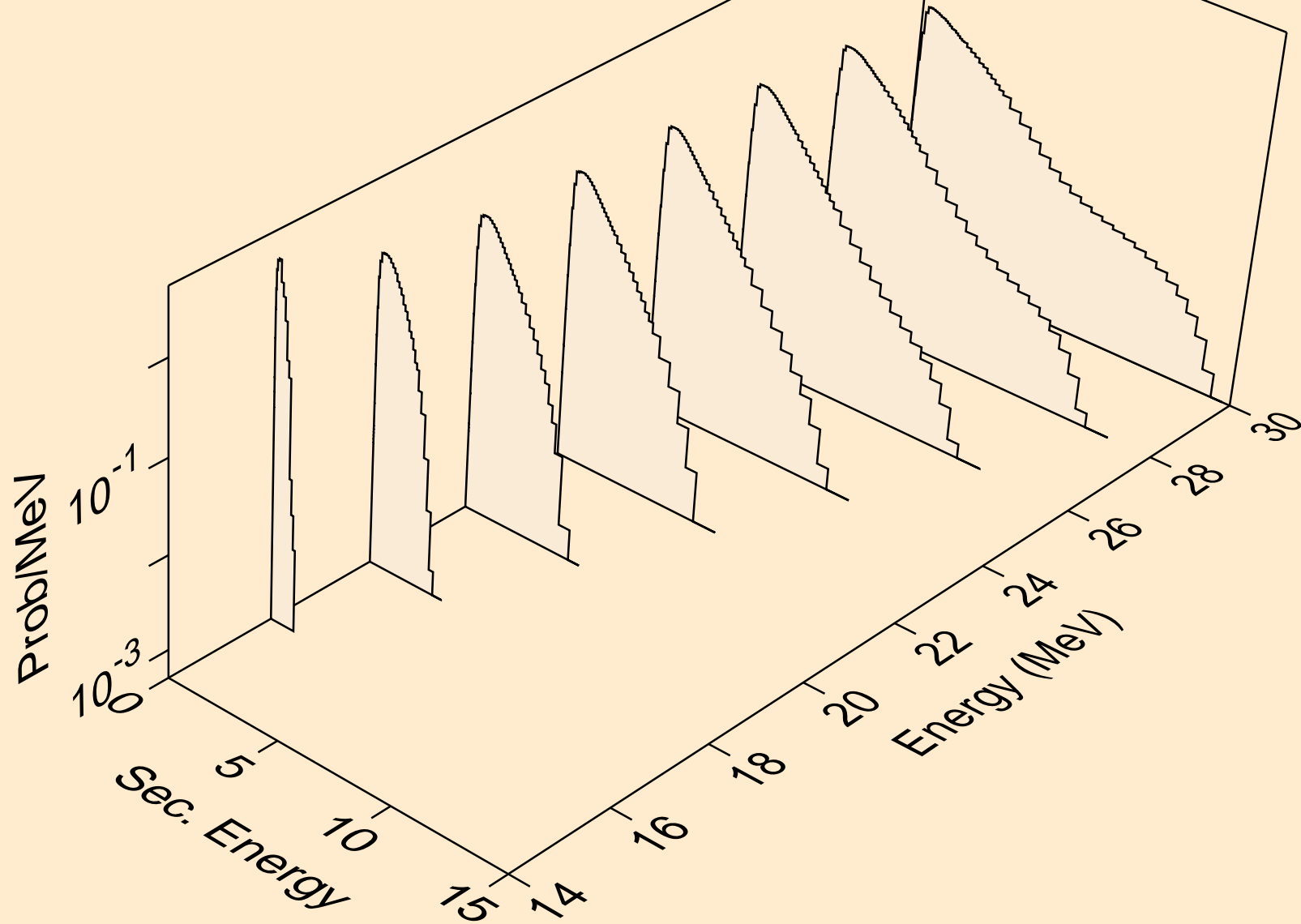
IR189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,2nd)



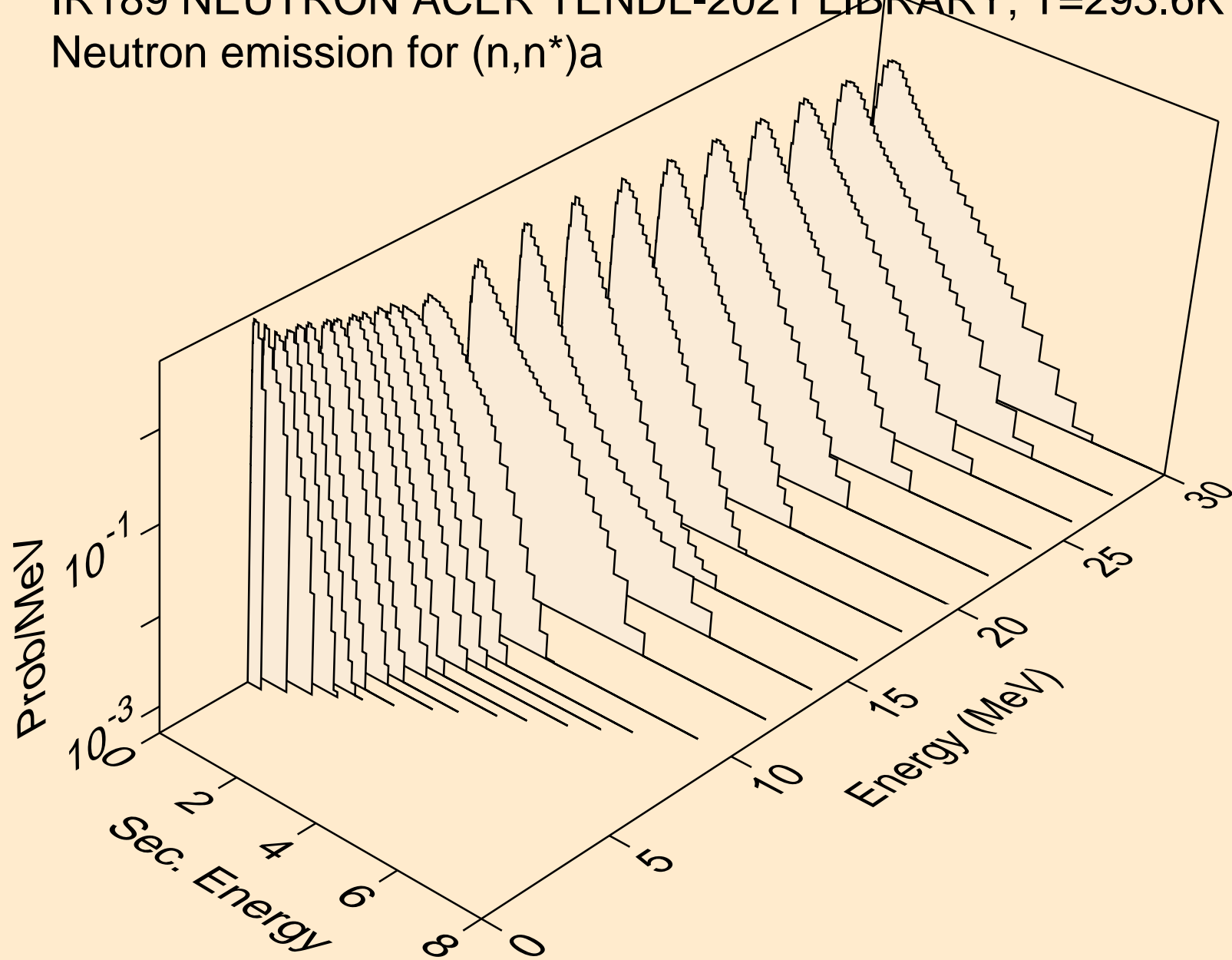
IR189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,2n)



IR189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,3n)

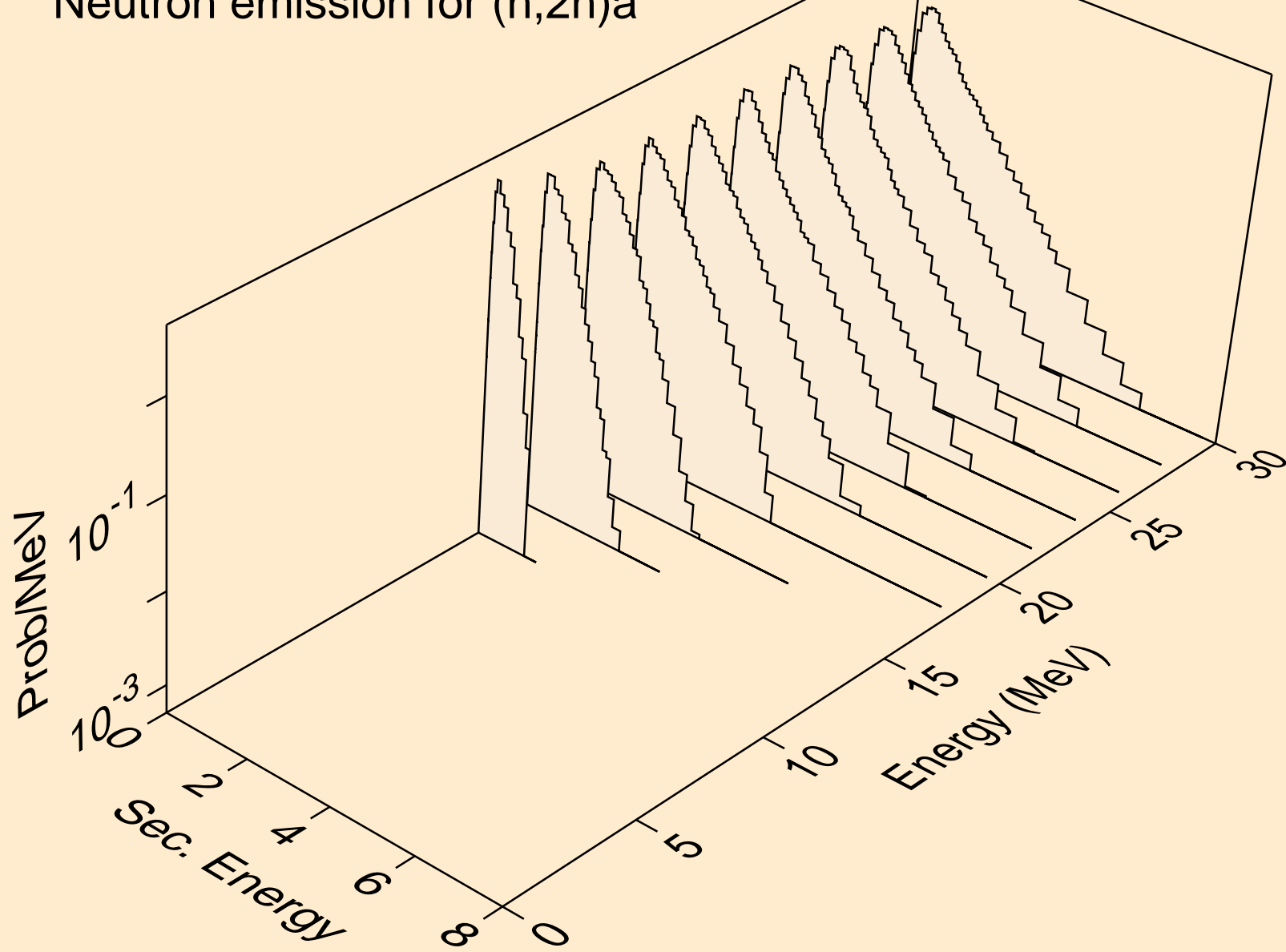


IR189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,n\*)a

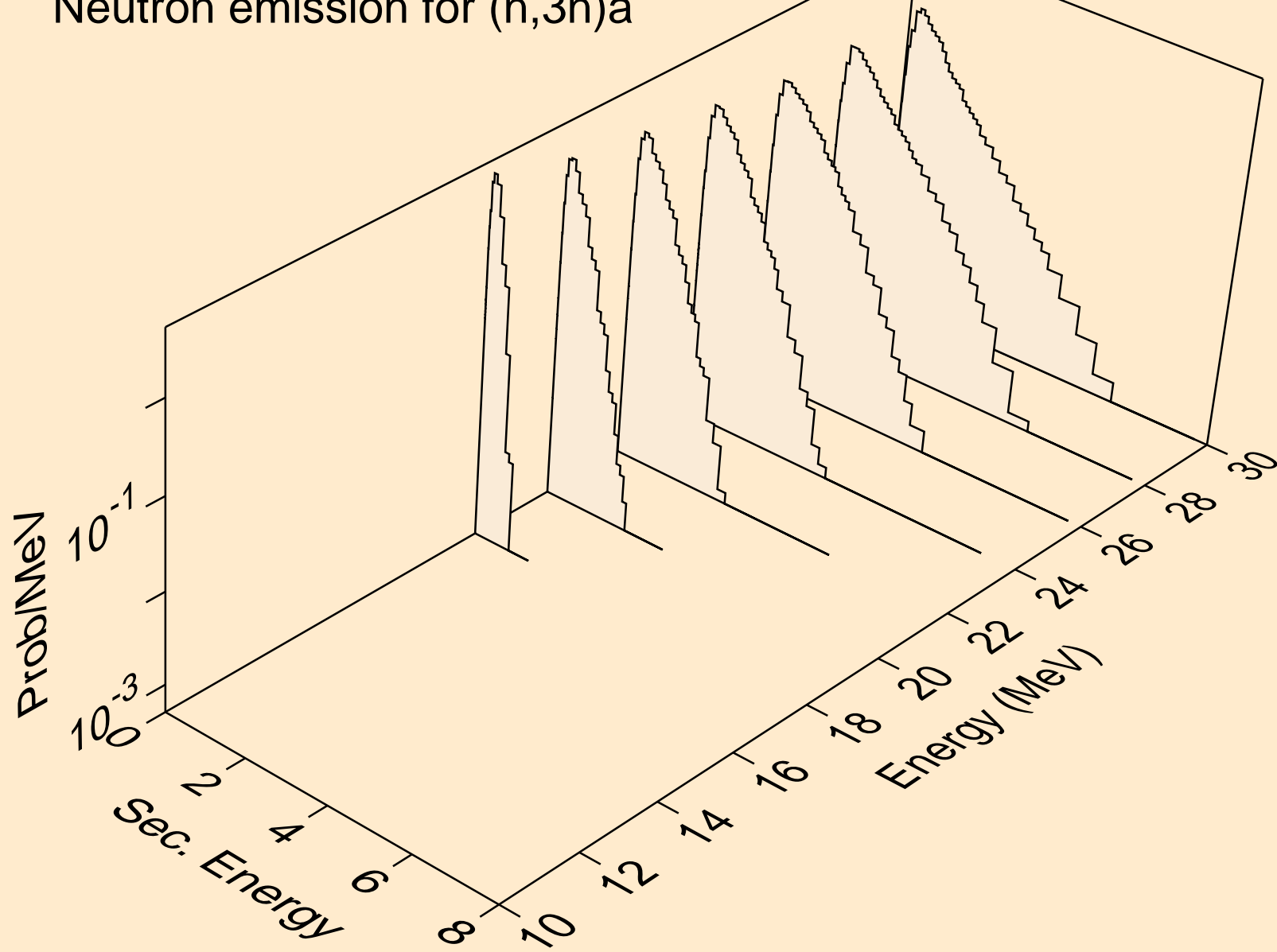




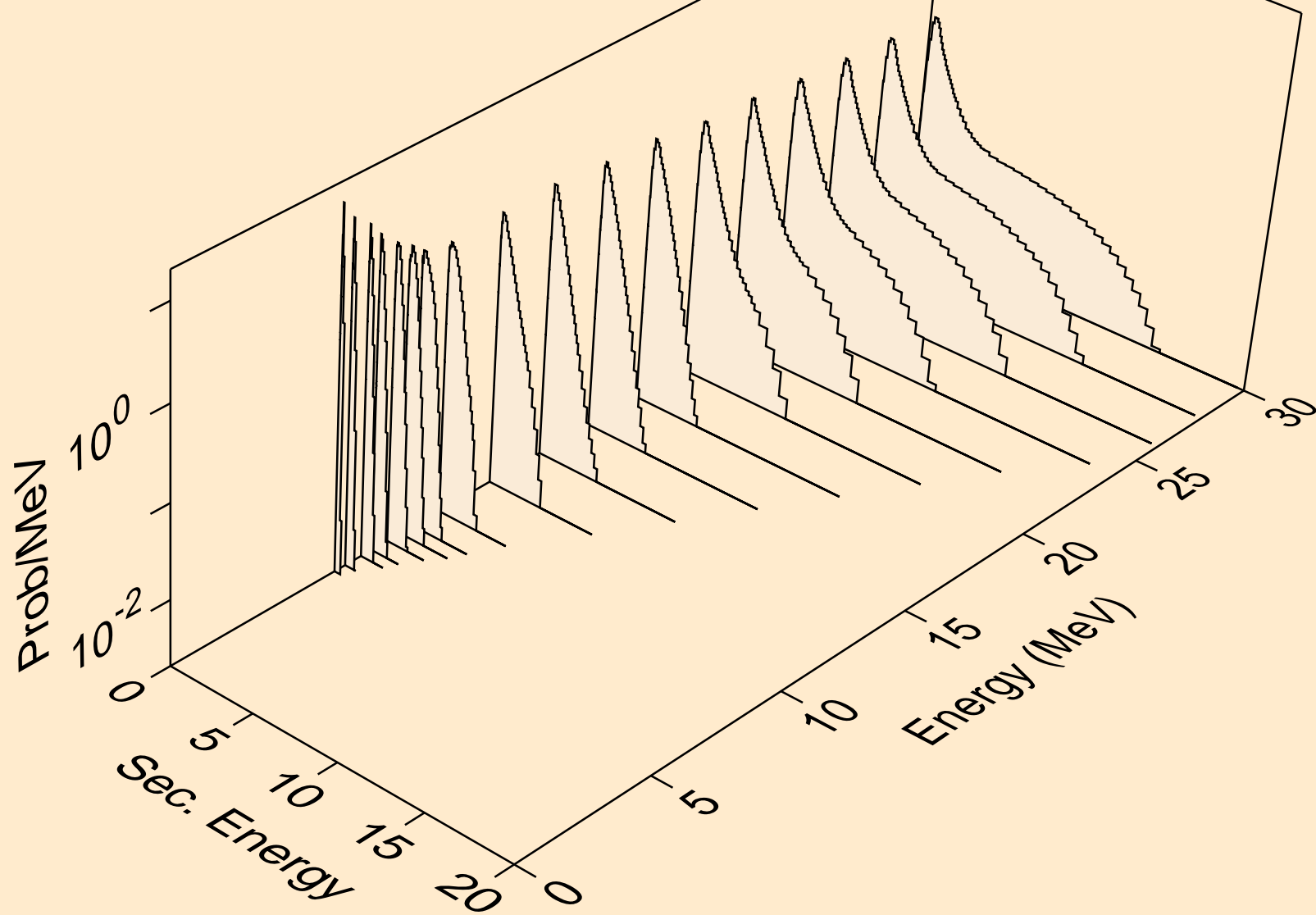
IR189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,2n)<sub>a</sub>



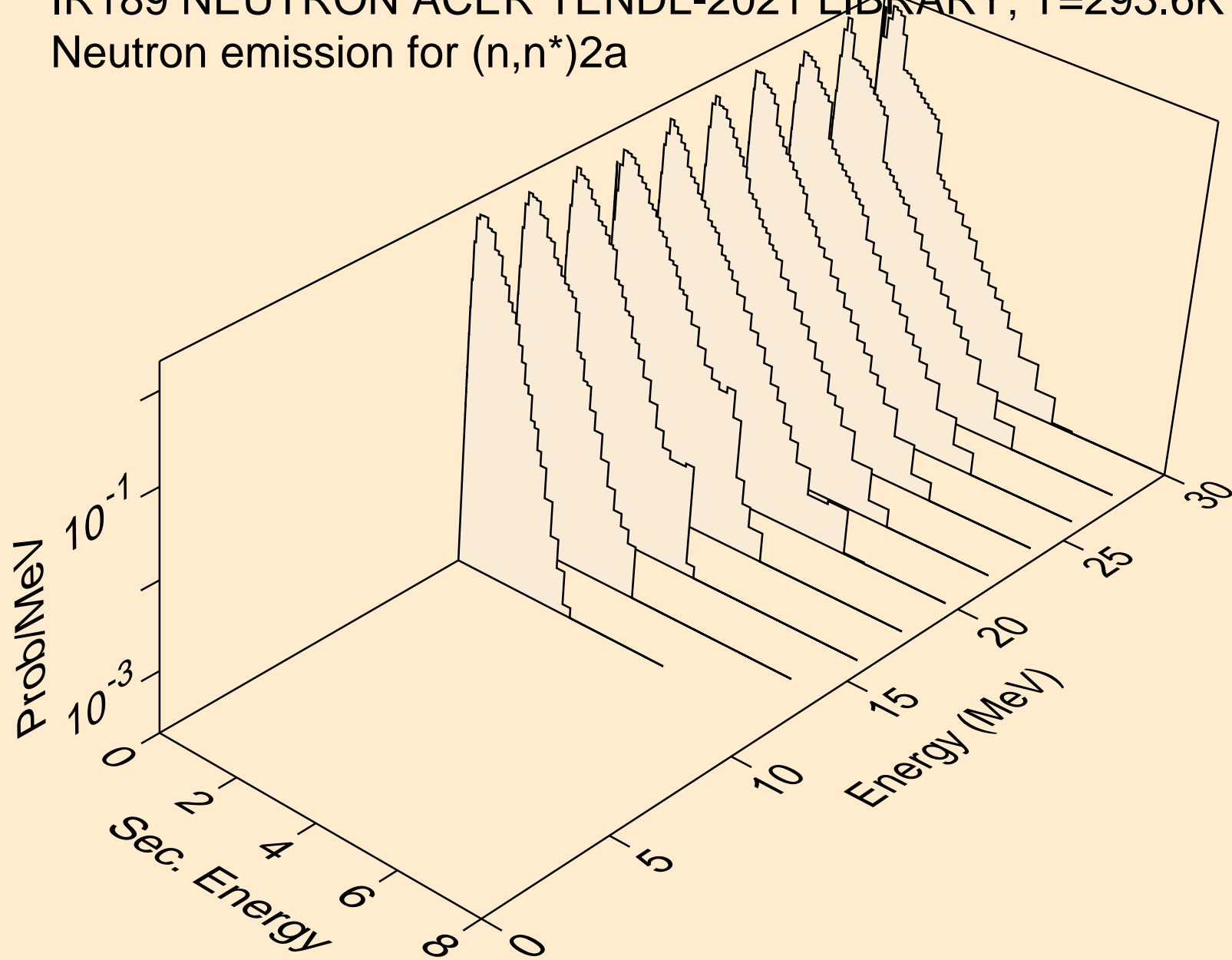
IR189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,3n)<sub>a</sub>



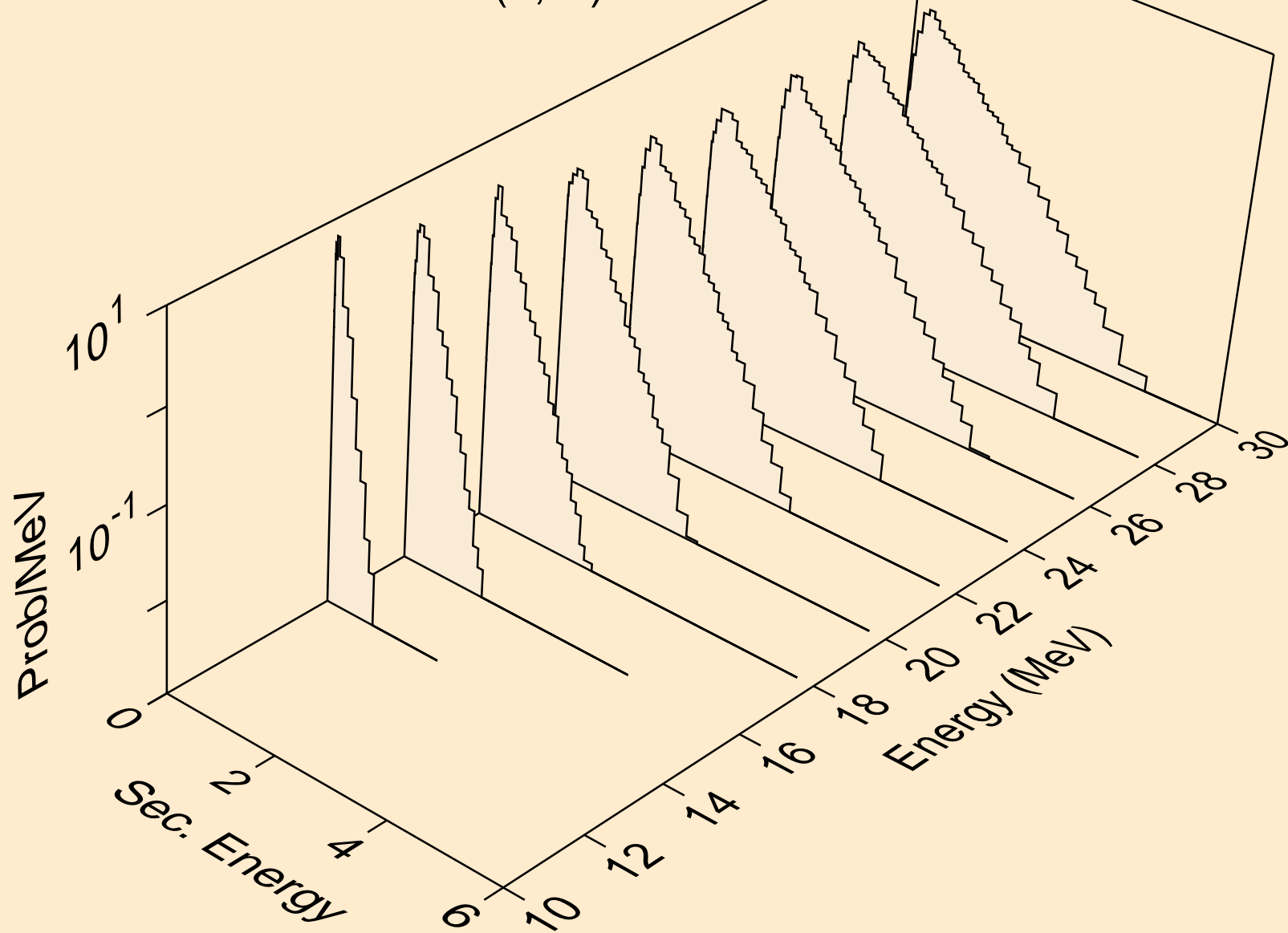
IR189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,n\*)p



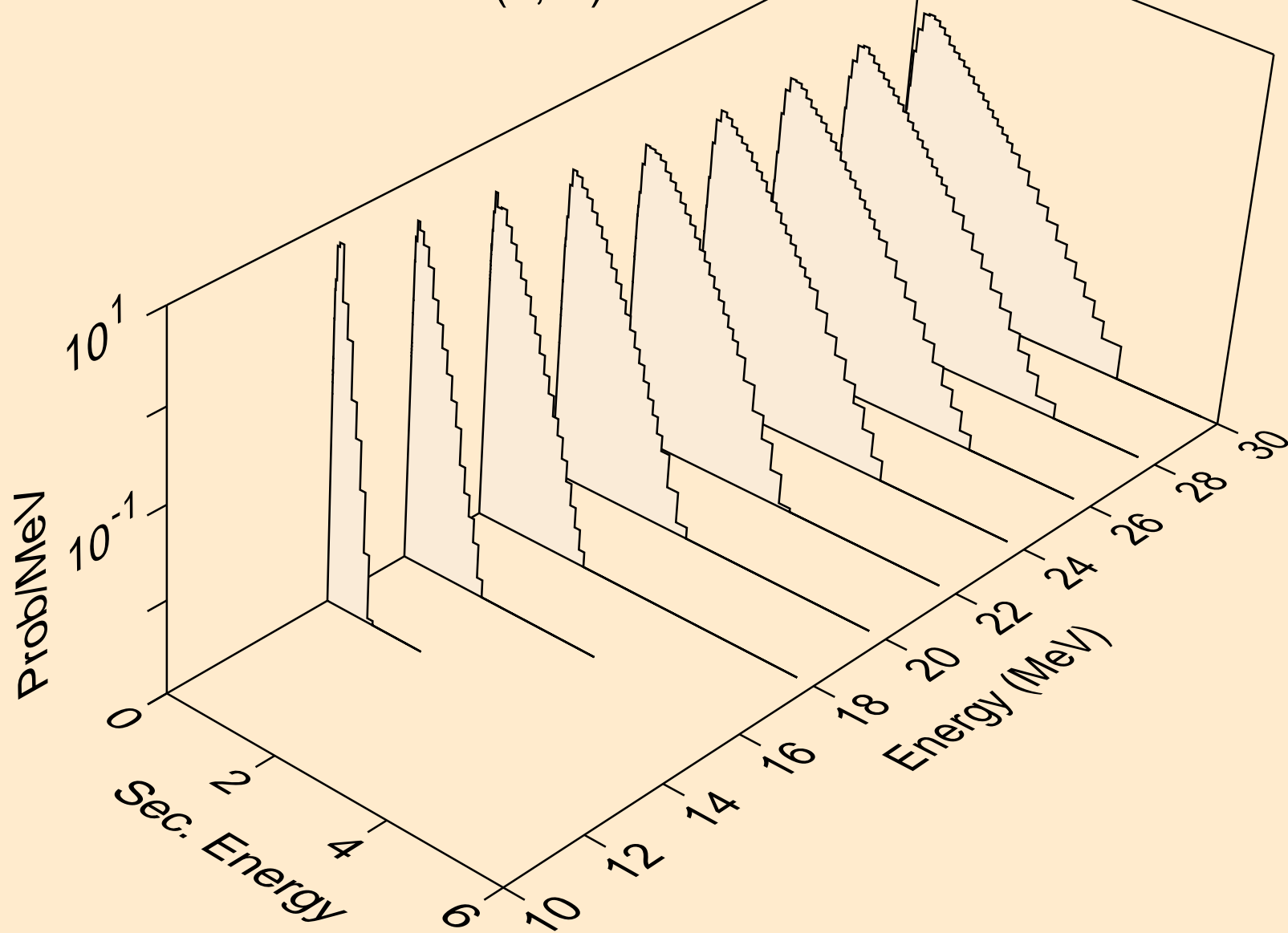
IR189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,n\*)2a



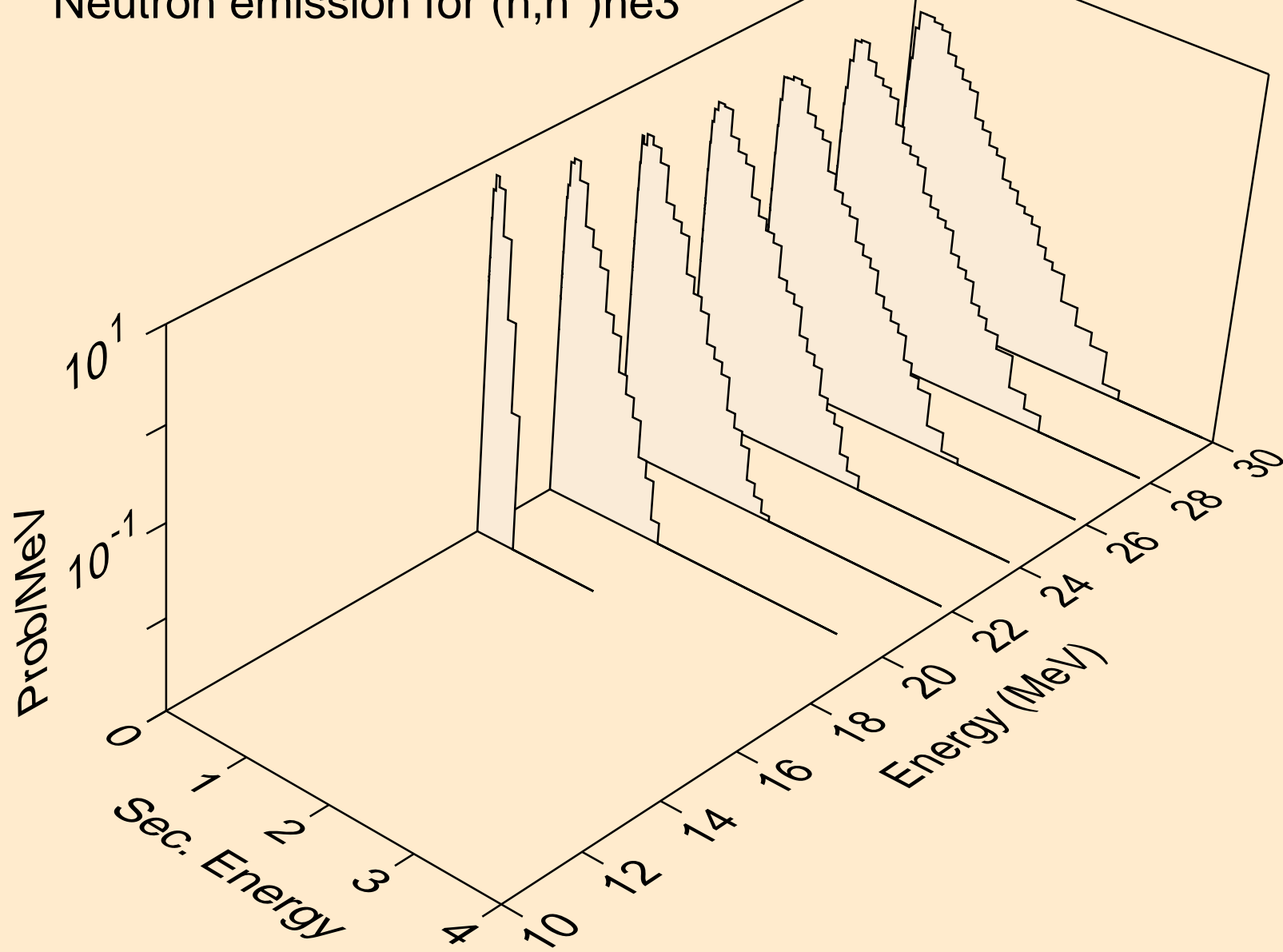
IR189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,n\*)d



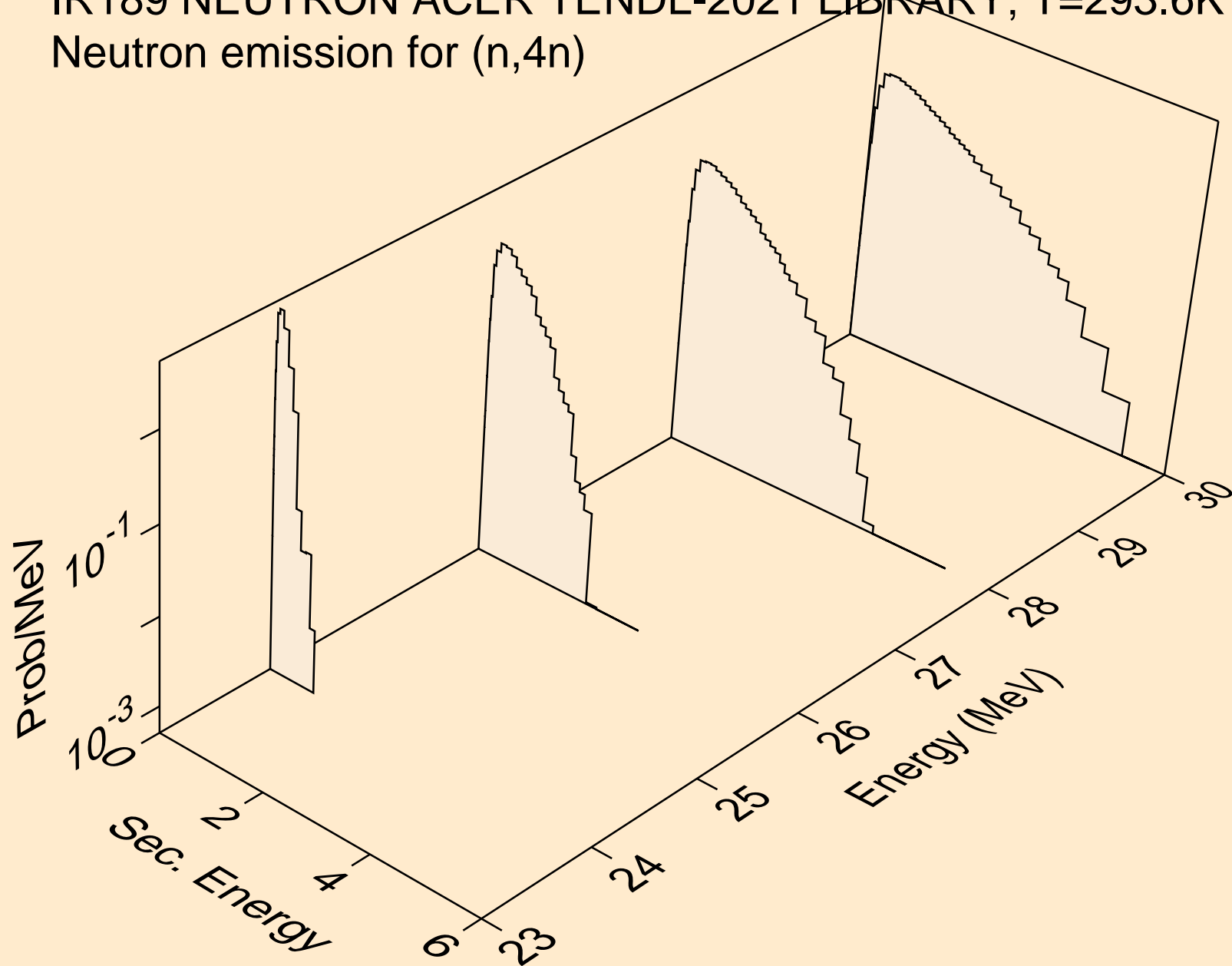
IR189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,n\*)t



IR189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,n\*)he3

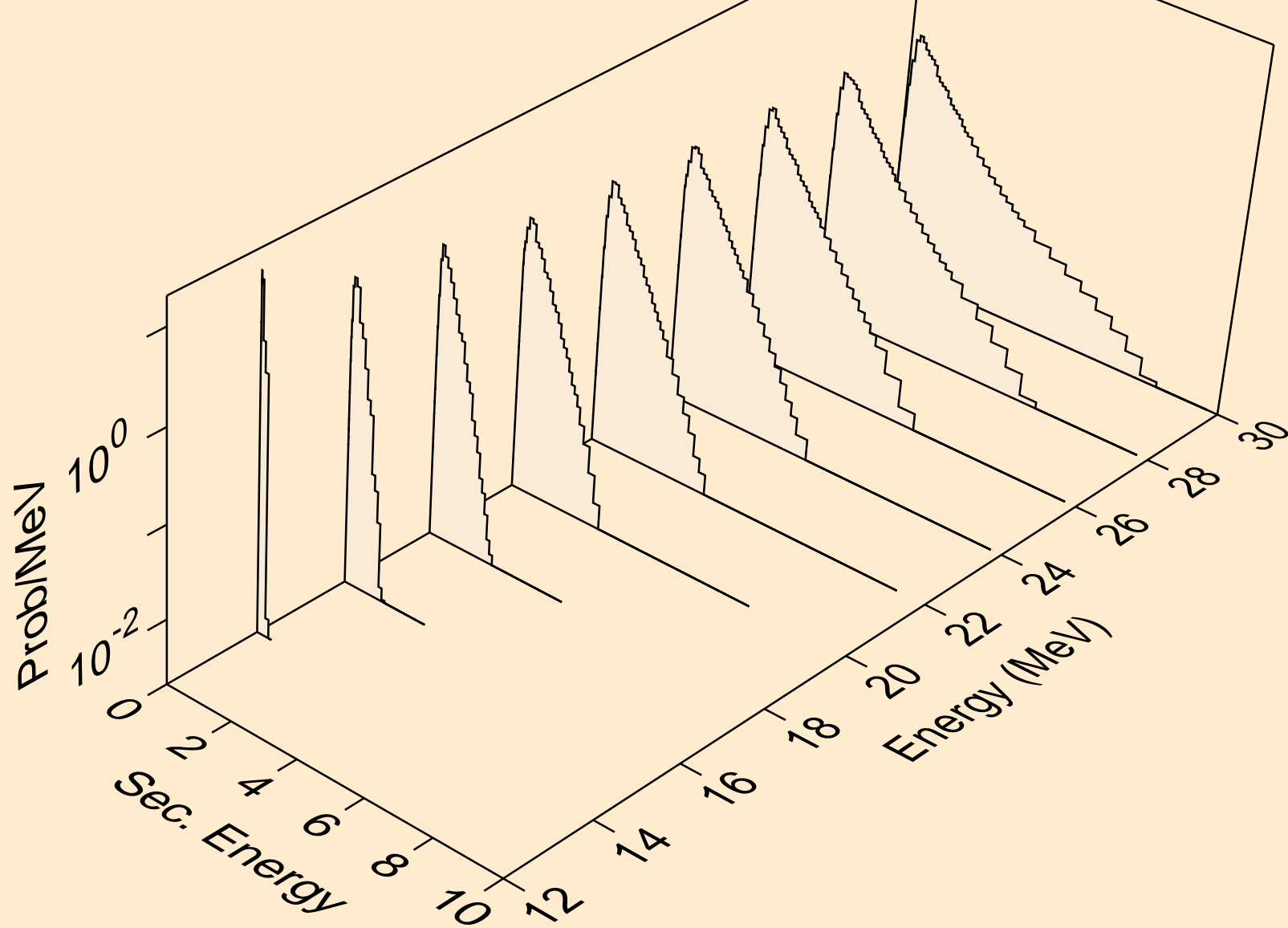


IR189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,4n)

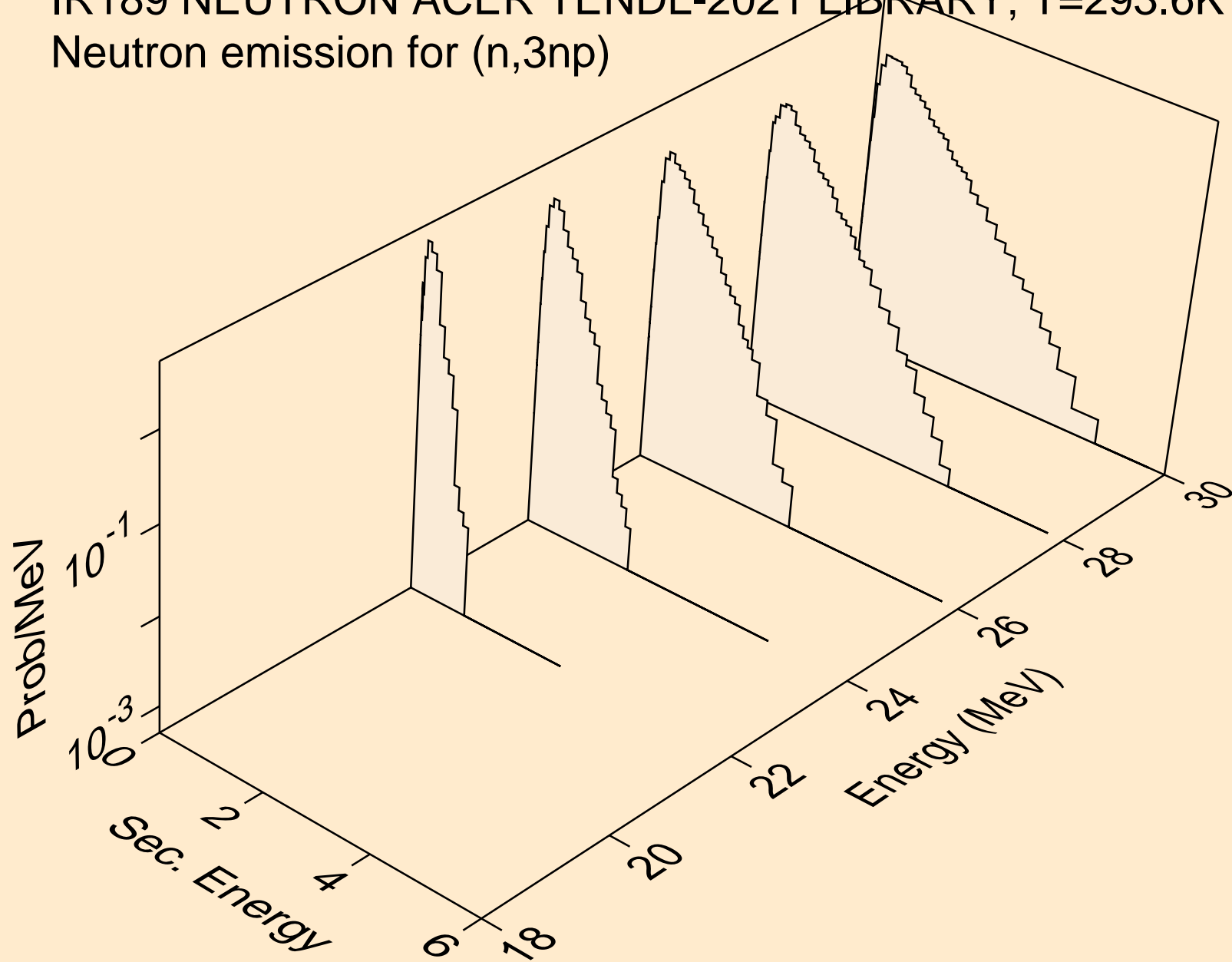




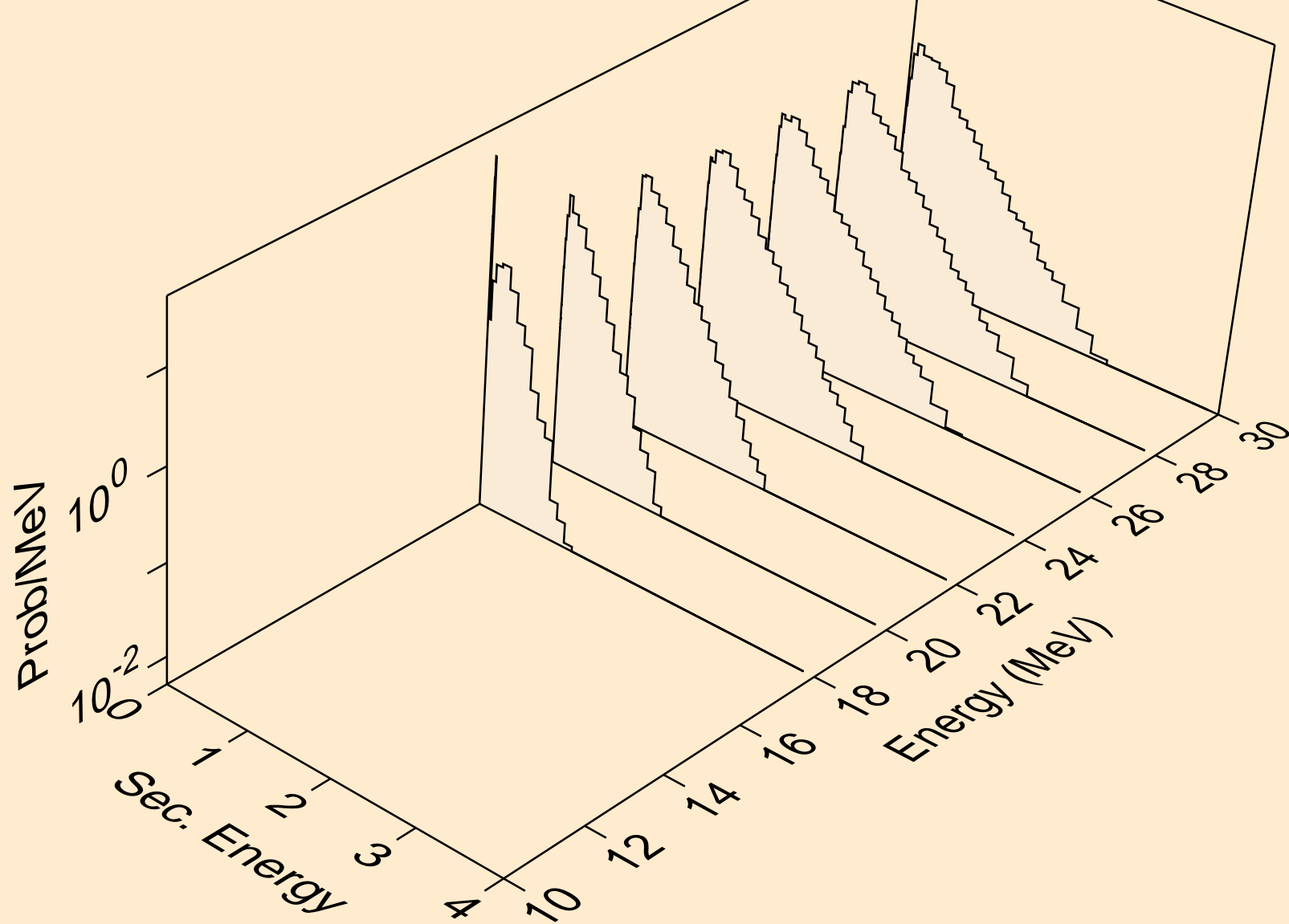
IR189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,2np)



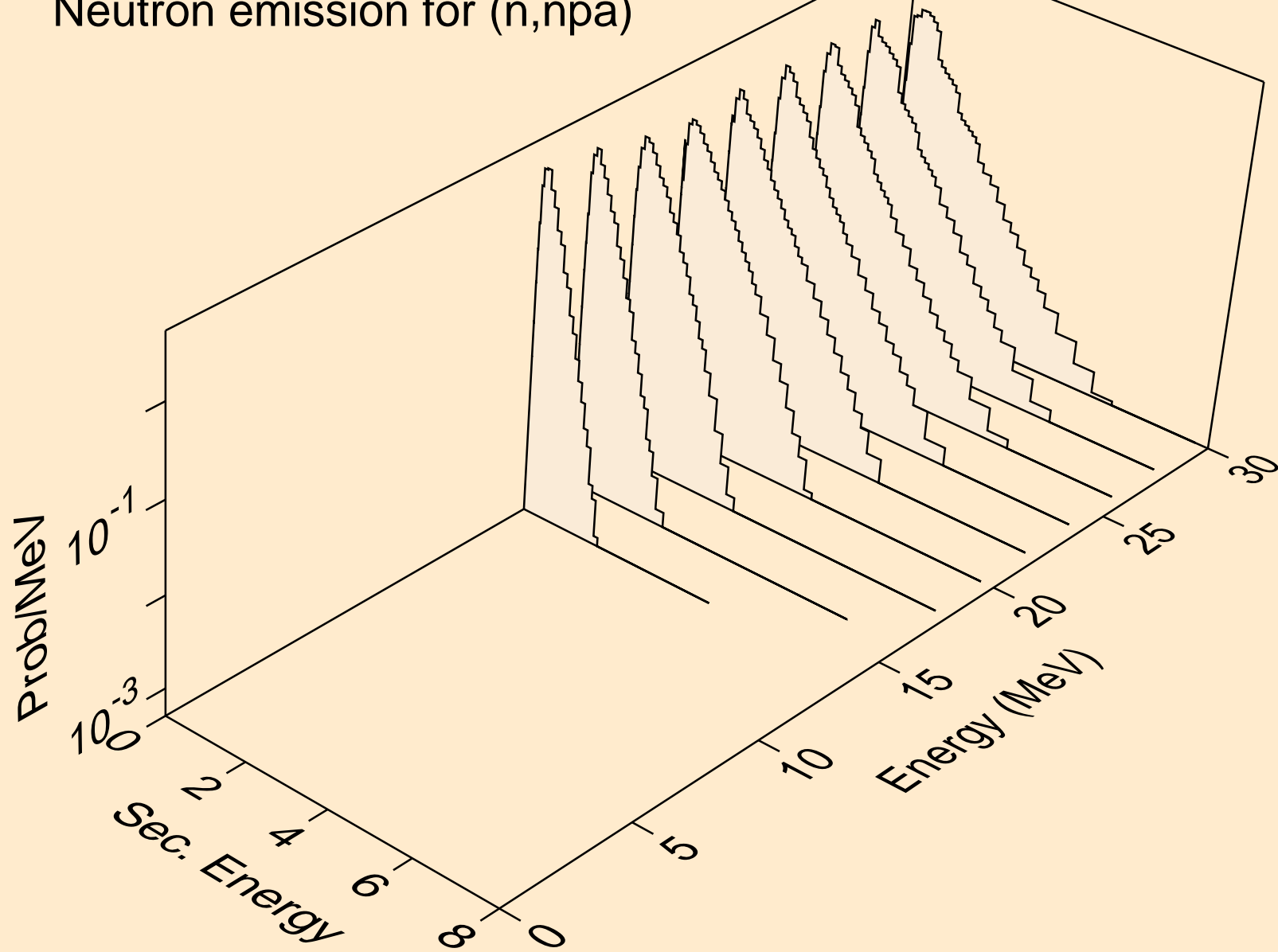
IR189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,3np)



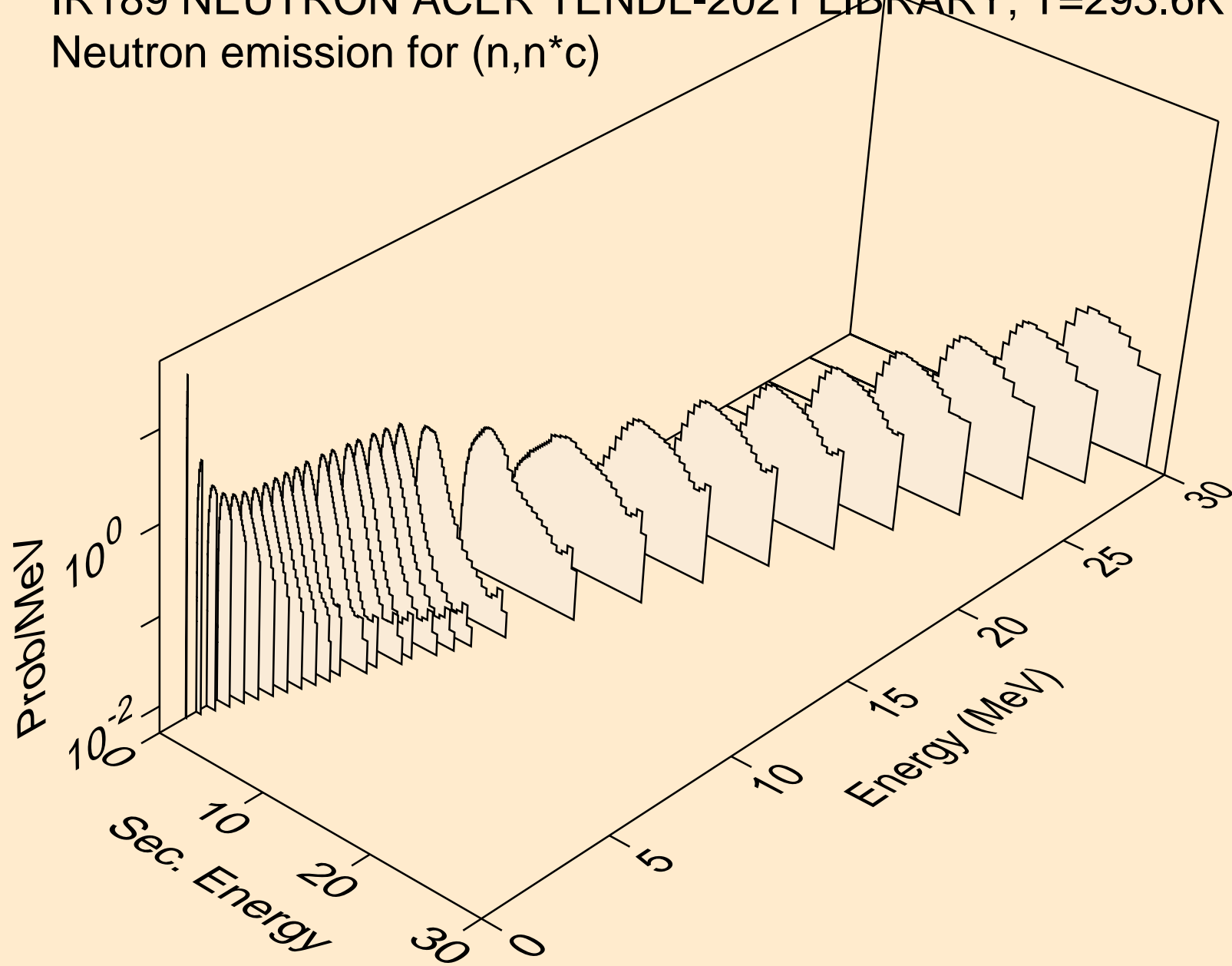
IR189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,2np)



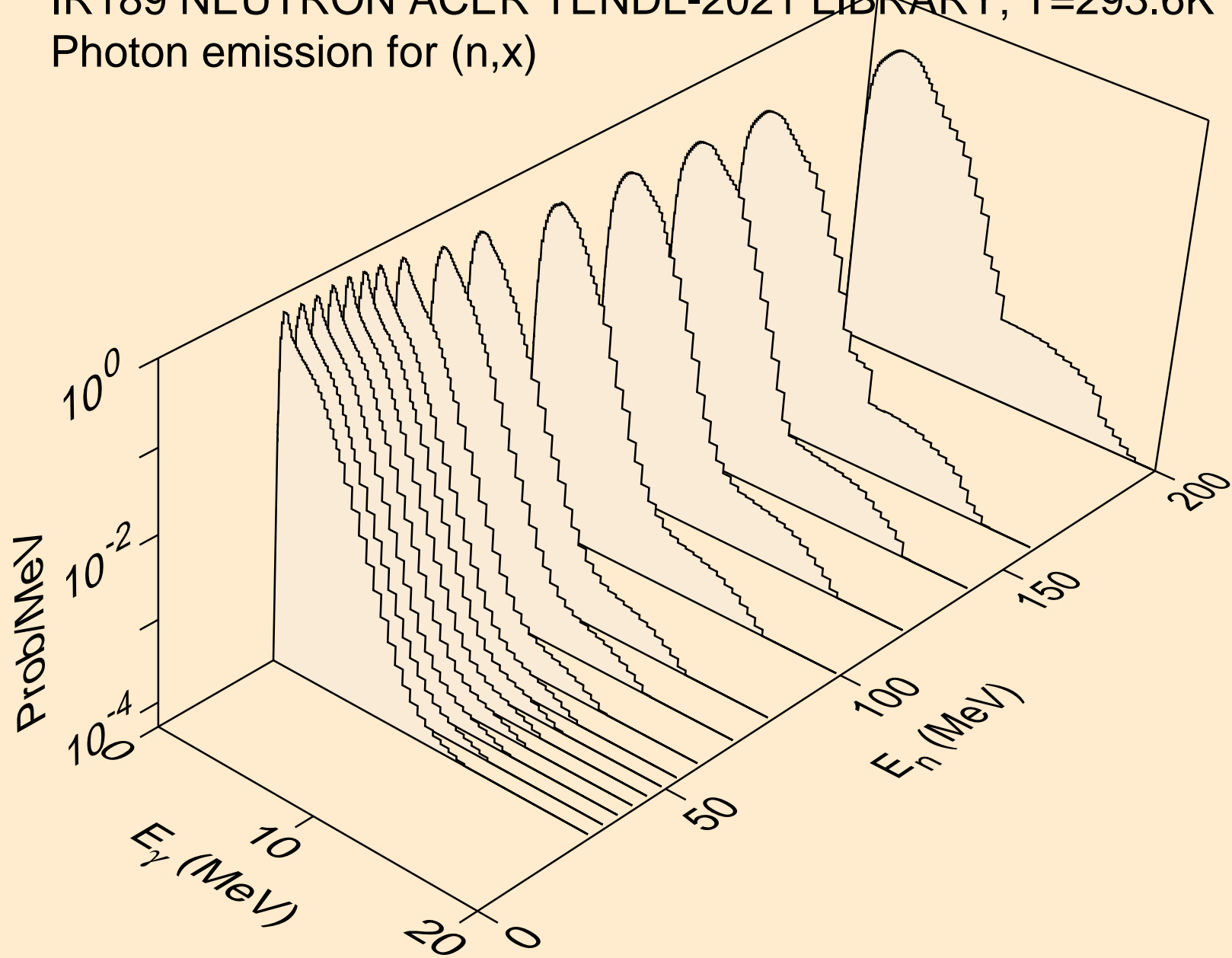
IR189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,npa)



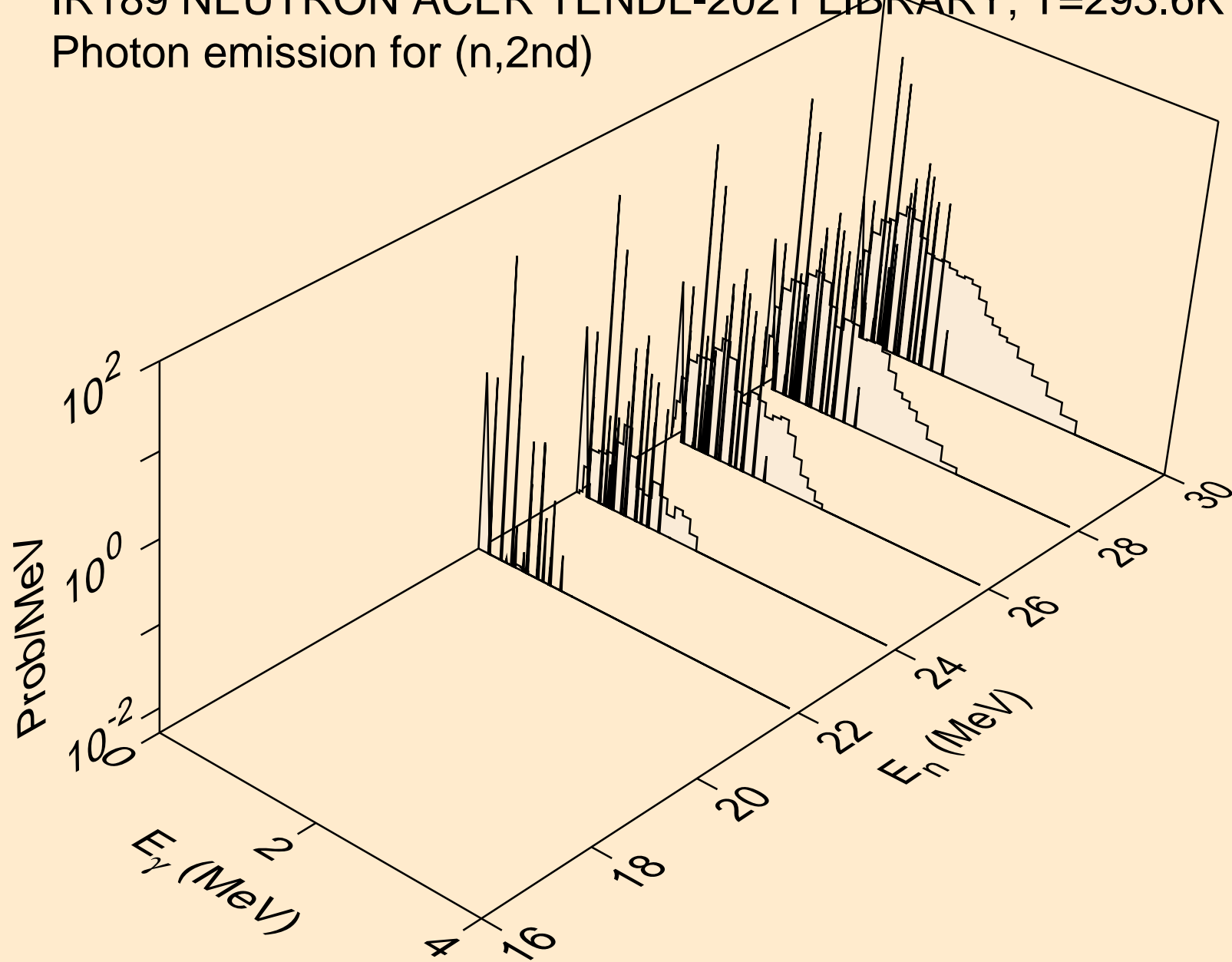
IR189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,n\*c)



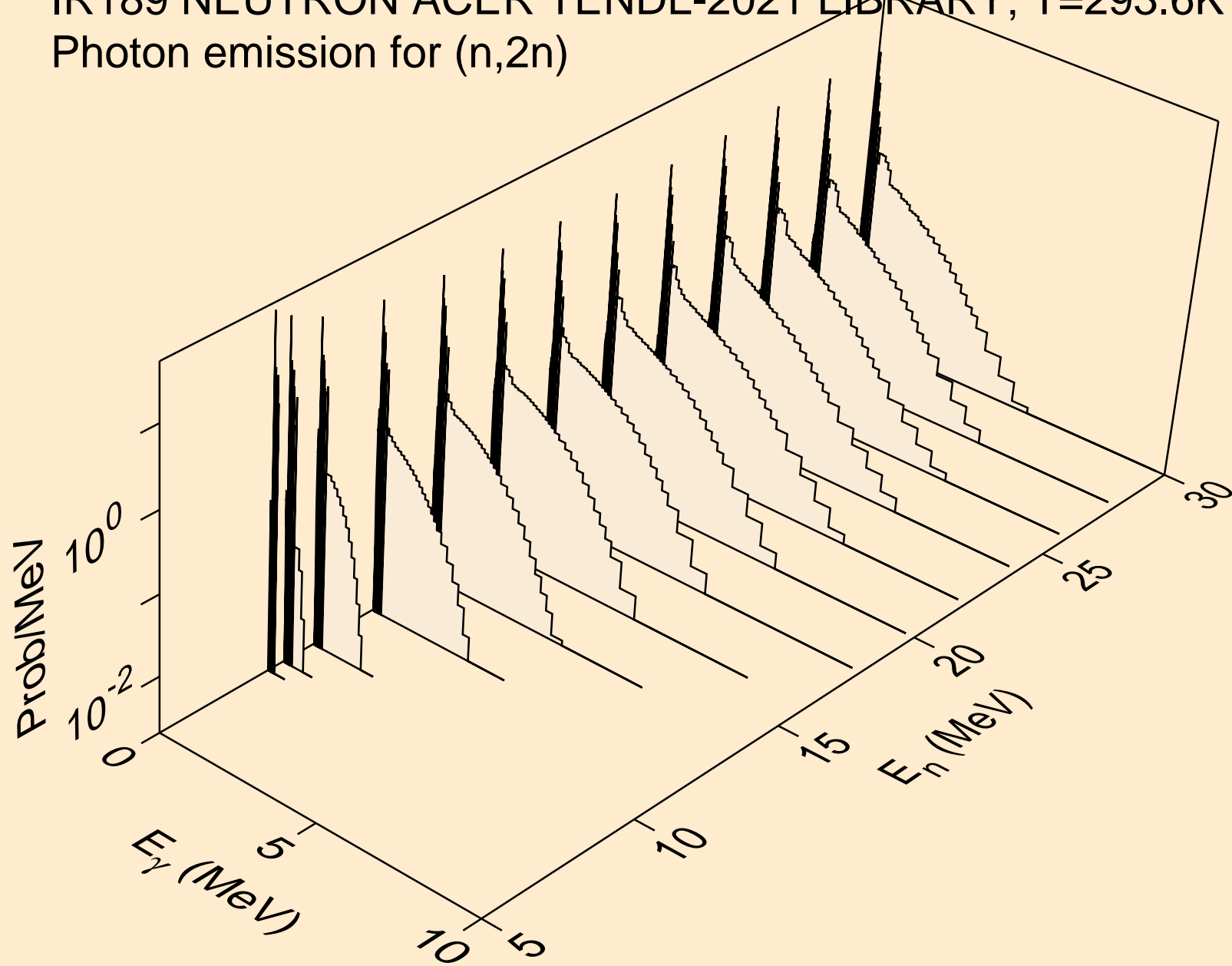
IR189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,x)



IR189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,2nd)

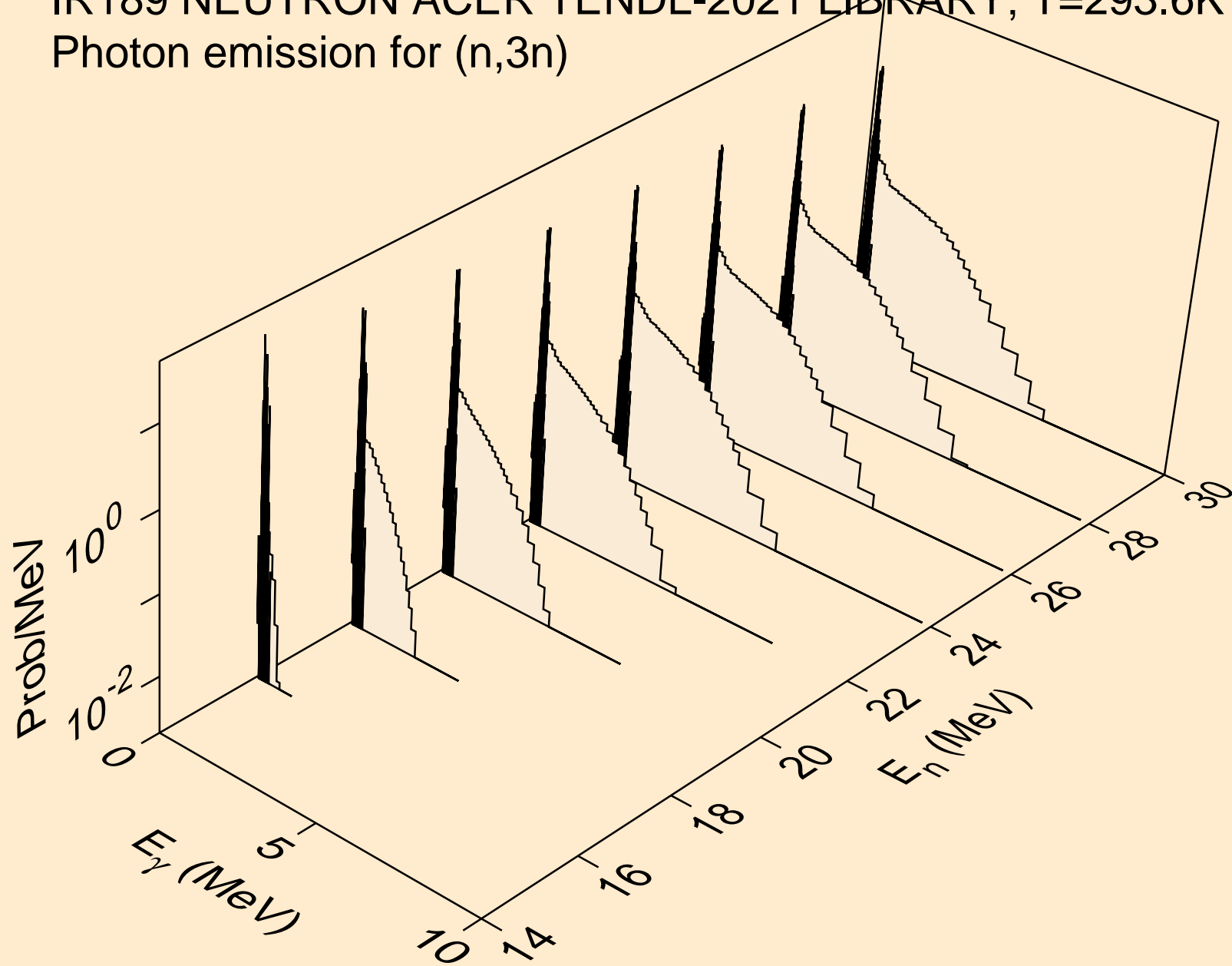


IR189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,2n)

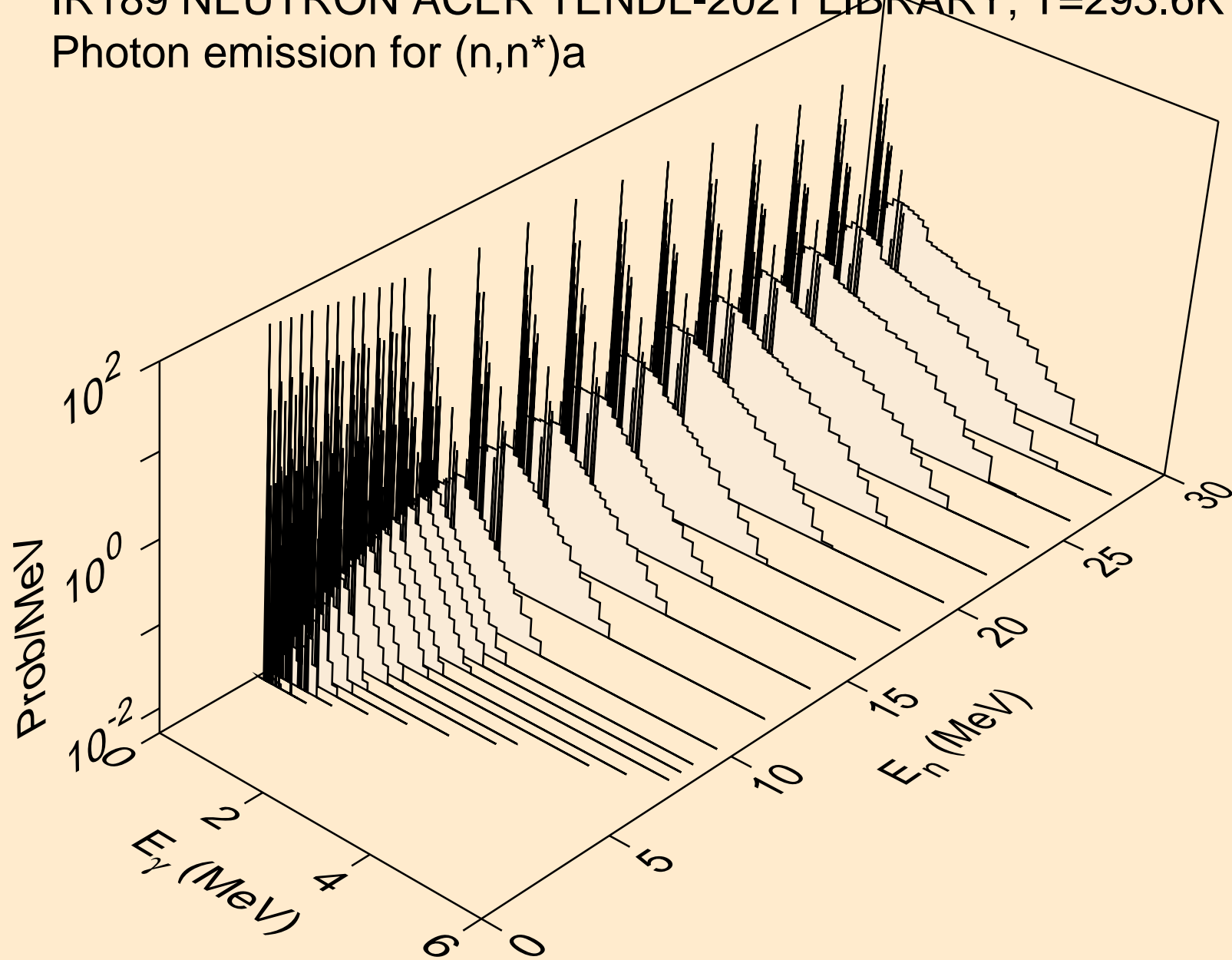




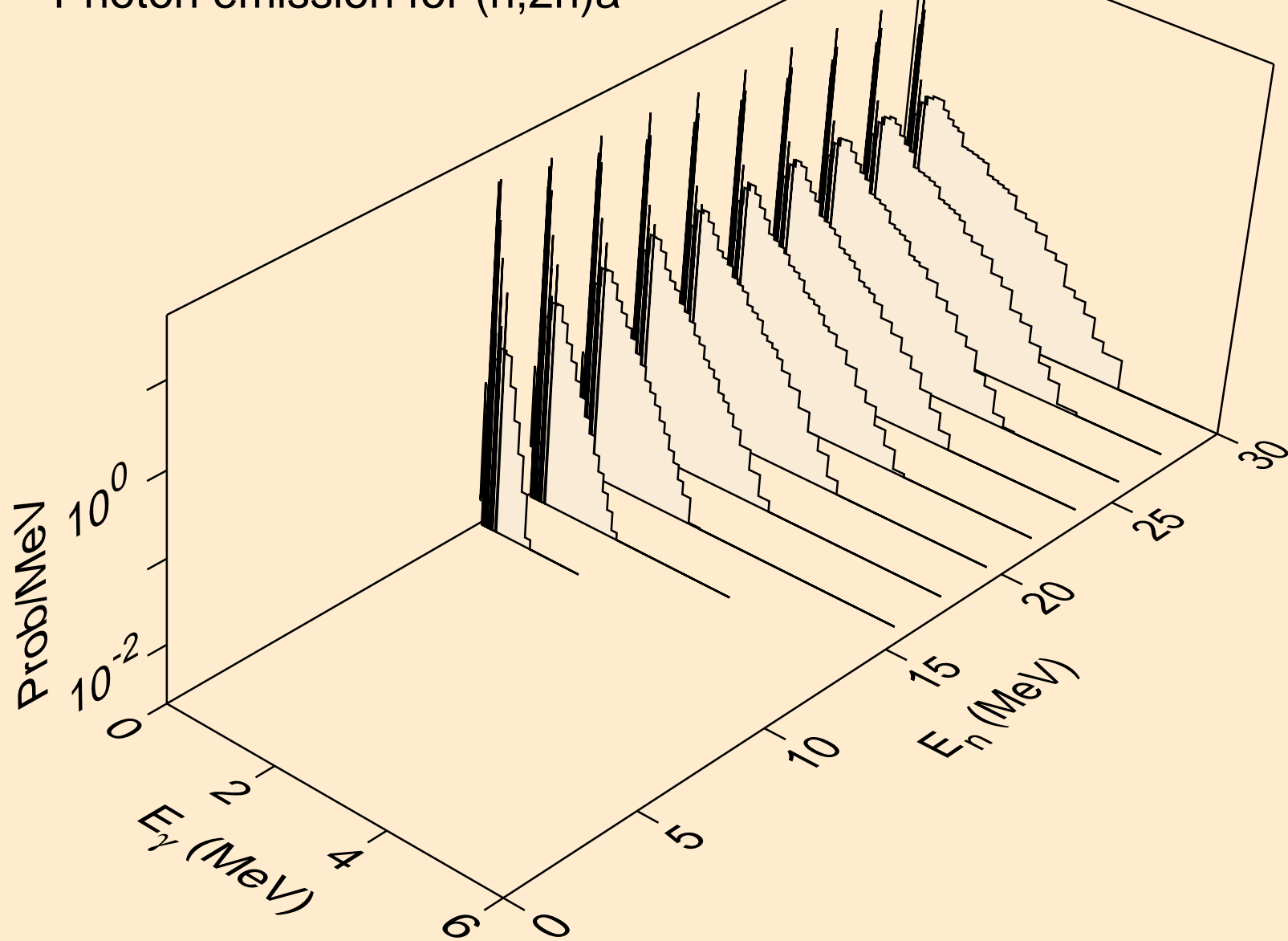
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Photon emission for (n,3n)



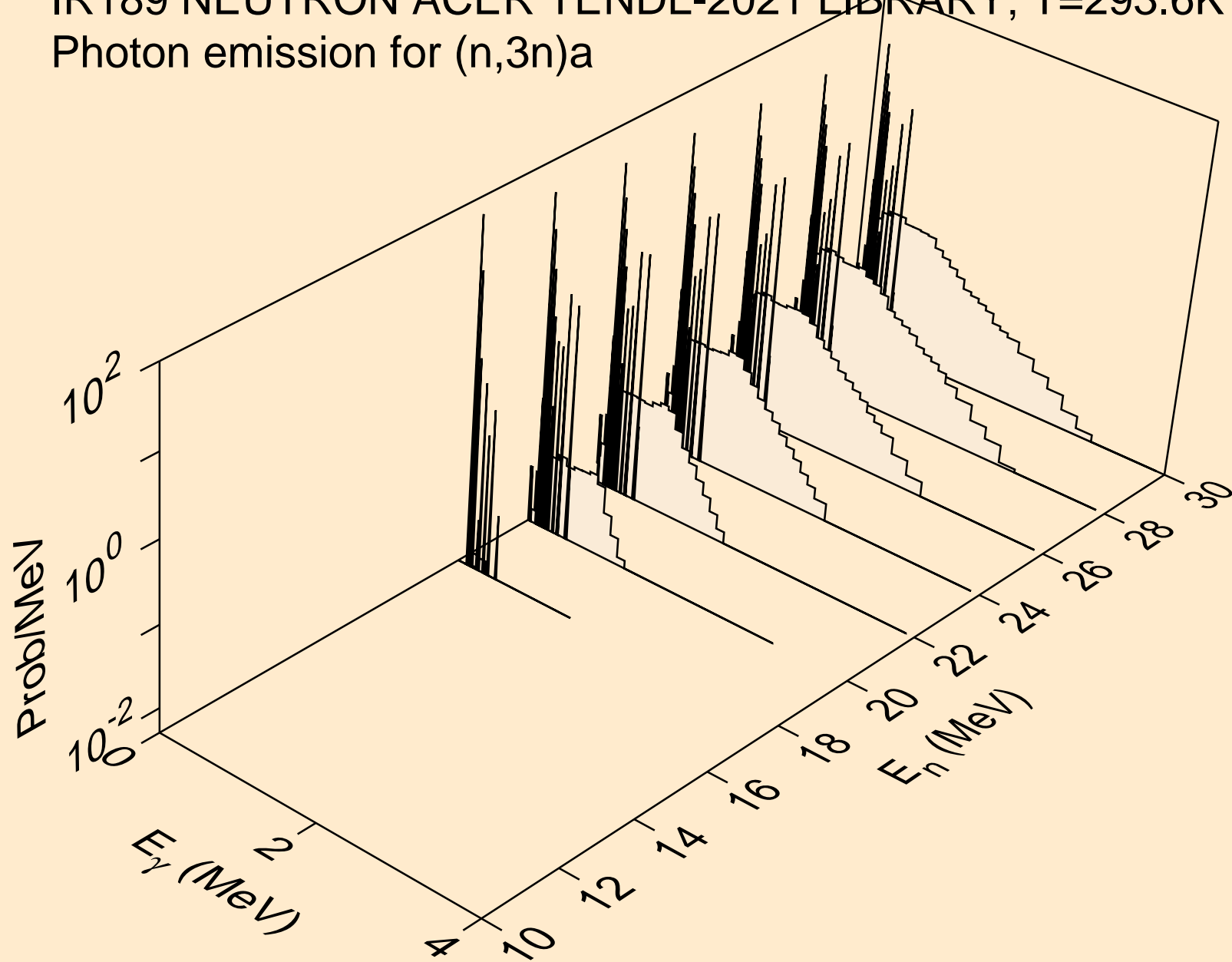
IR189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,n\*)a



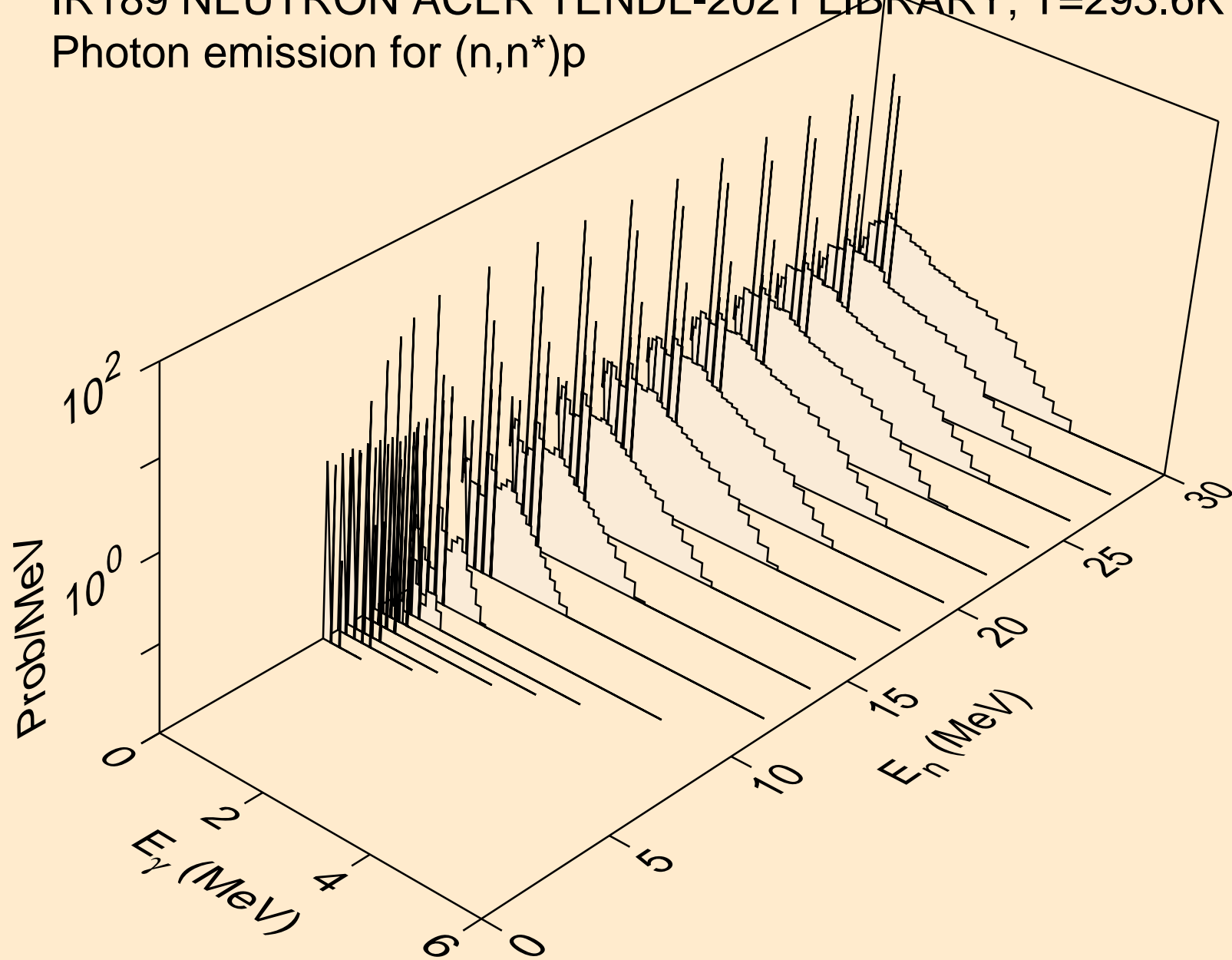
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Photon emission for (n,2n)a



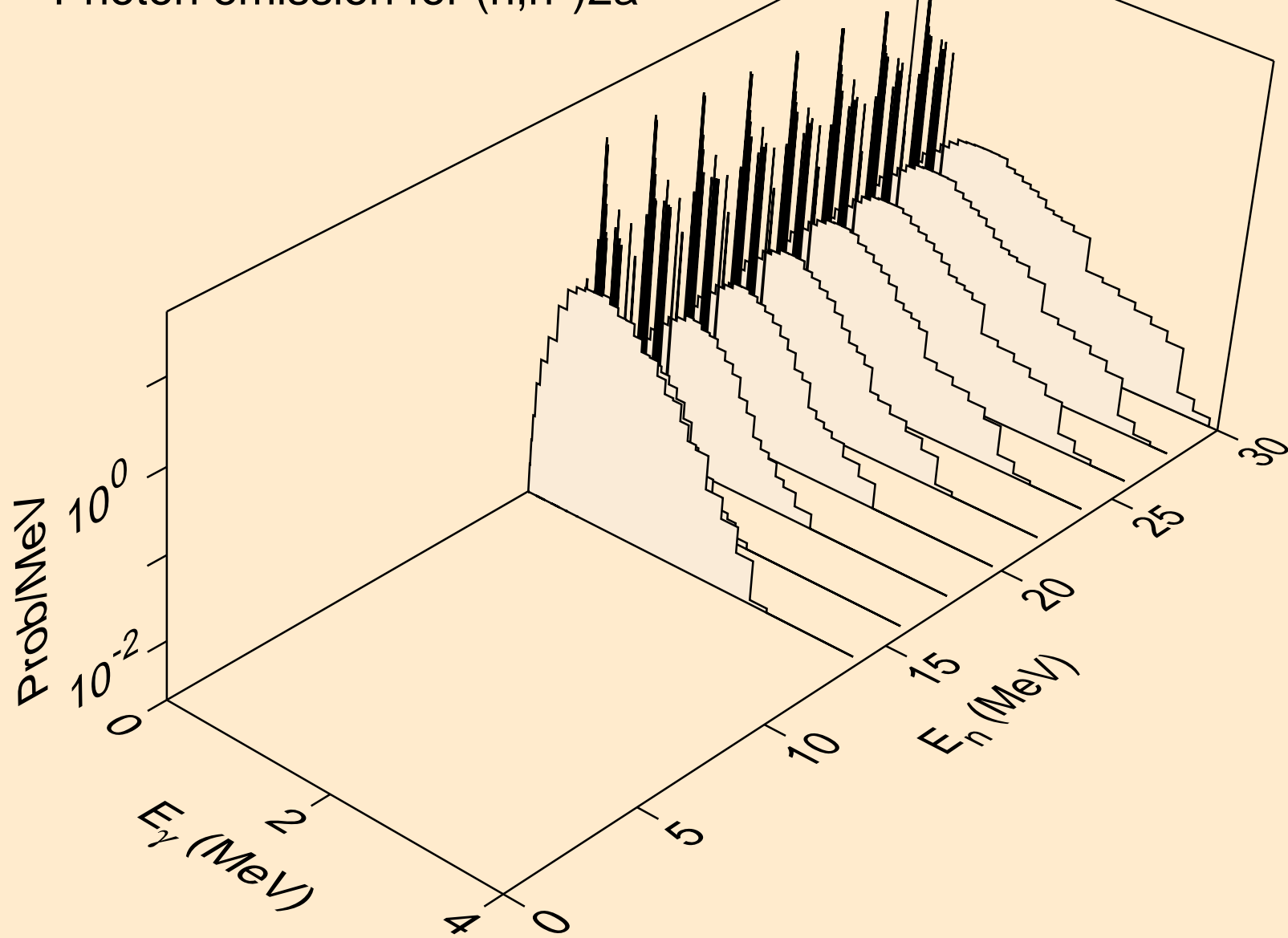
IR189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,3n)a



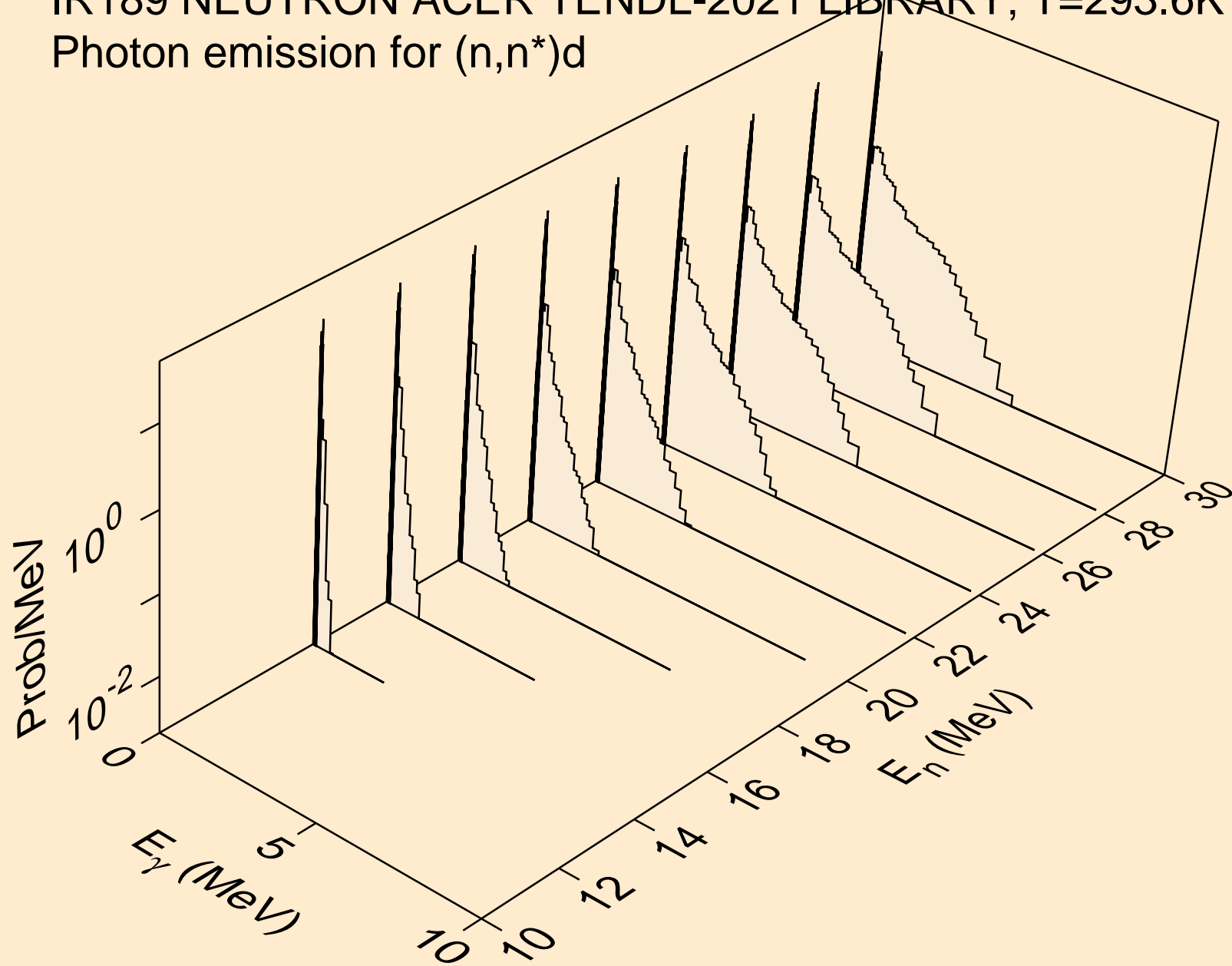
IR189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,n\*)p



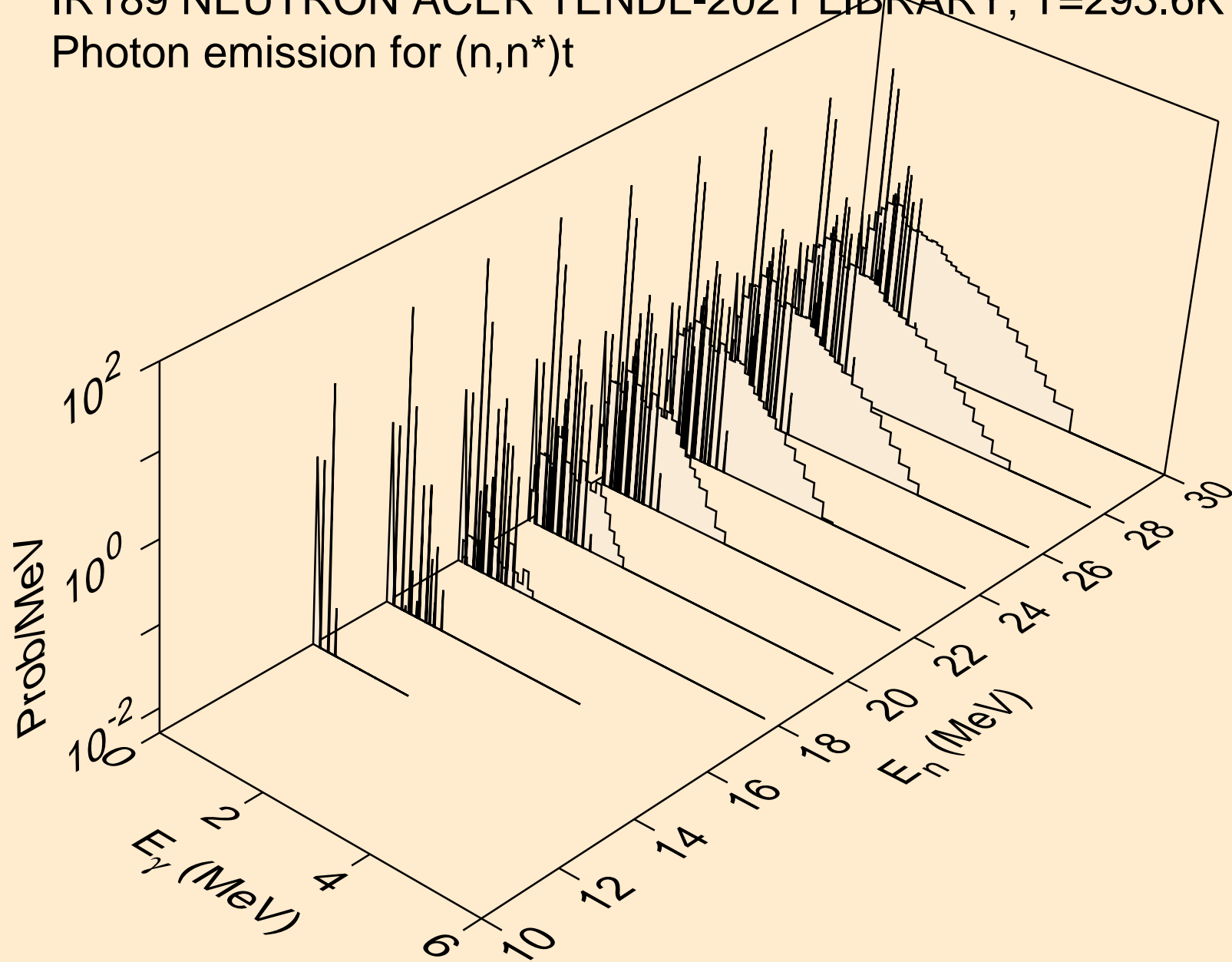
IR189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,n\*)2a



IR189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,n\*)d

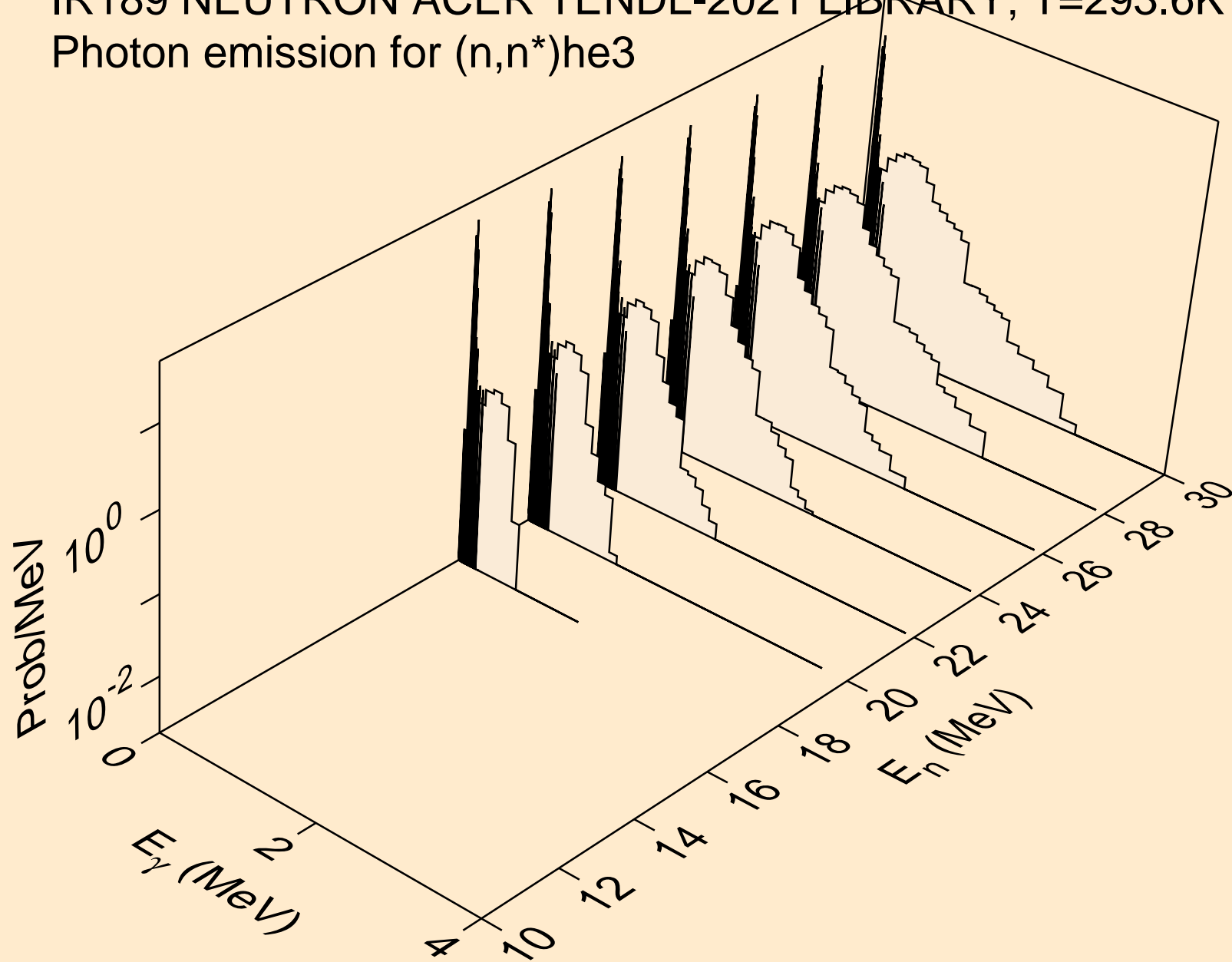


IR189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,n\*)t

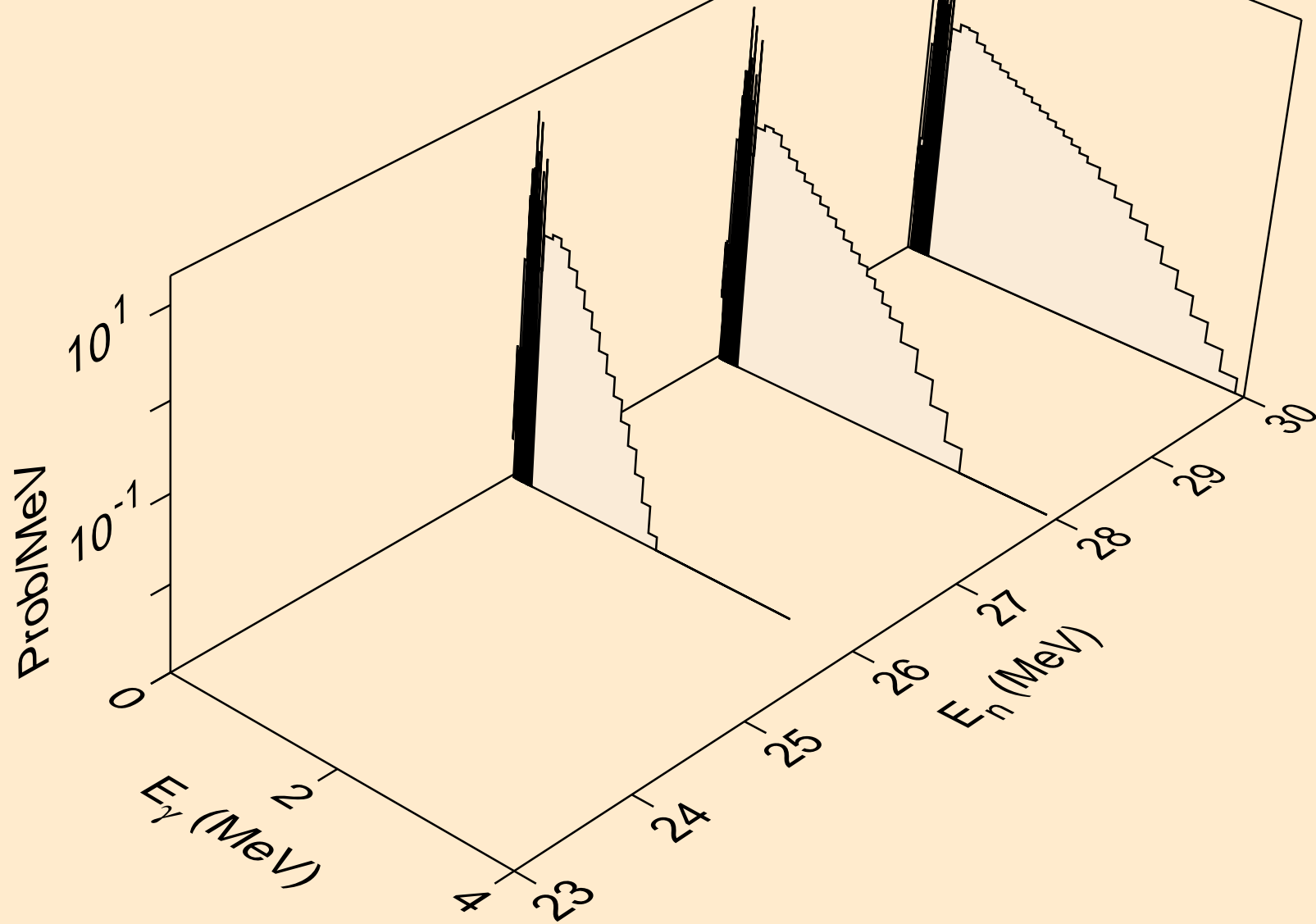




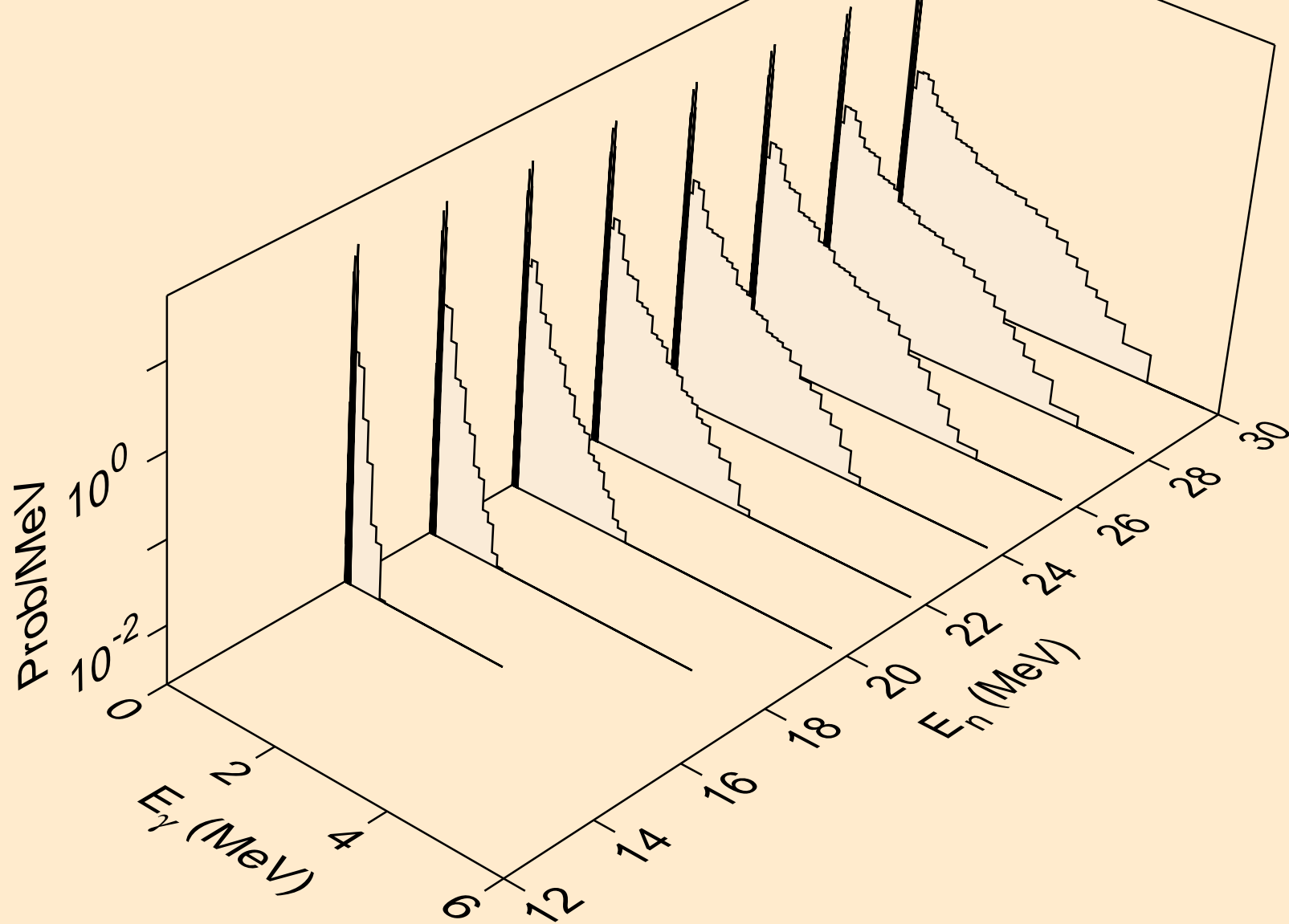
IR189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,n\*)he3



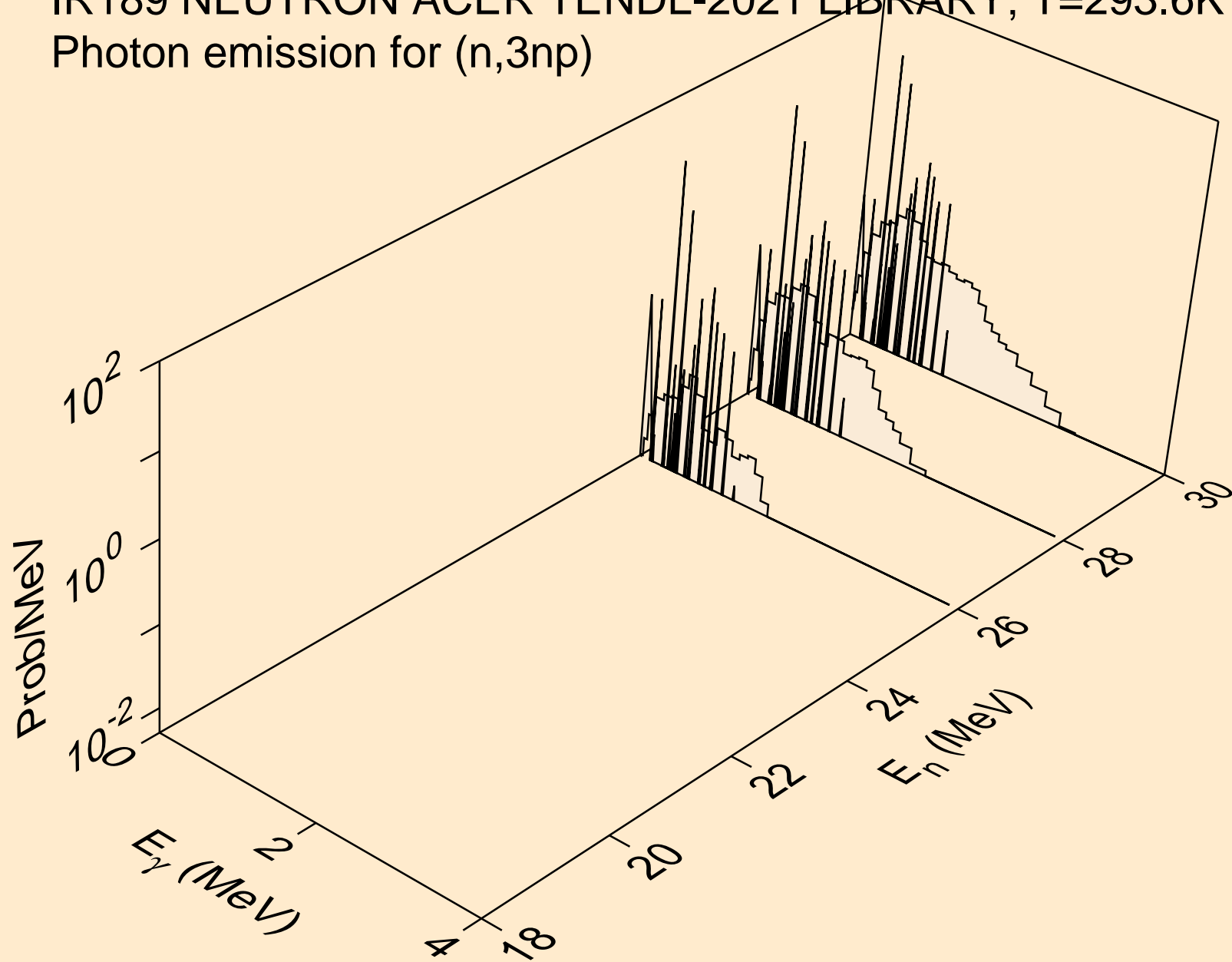
IR189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,4n)



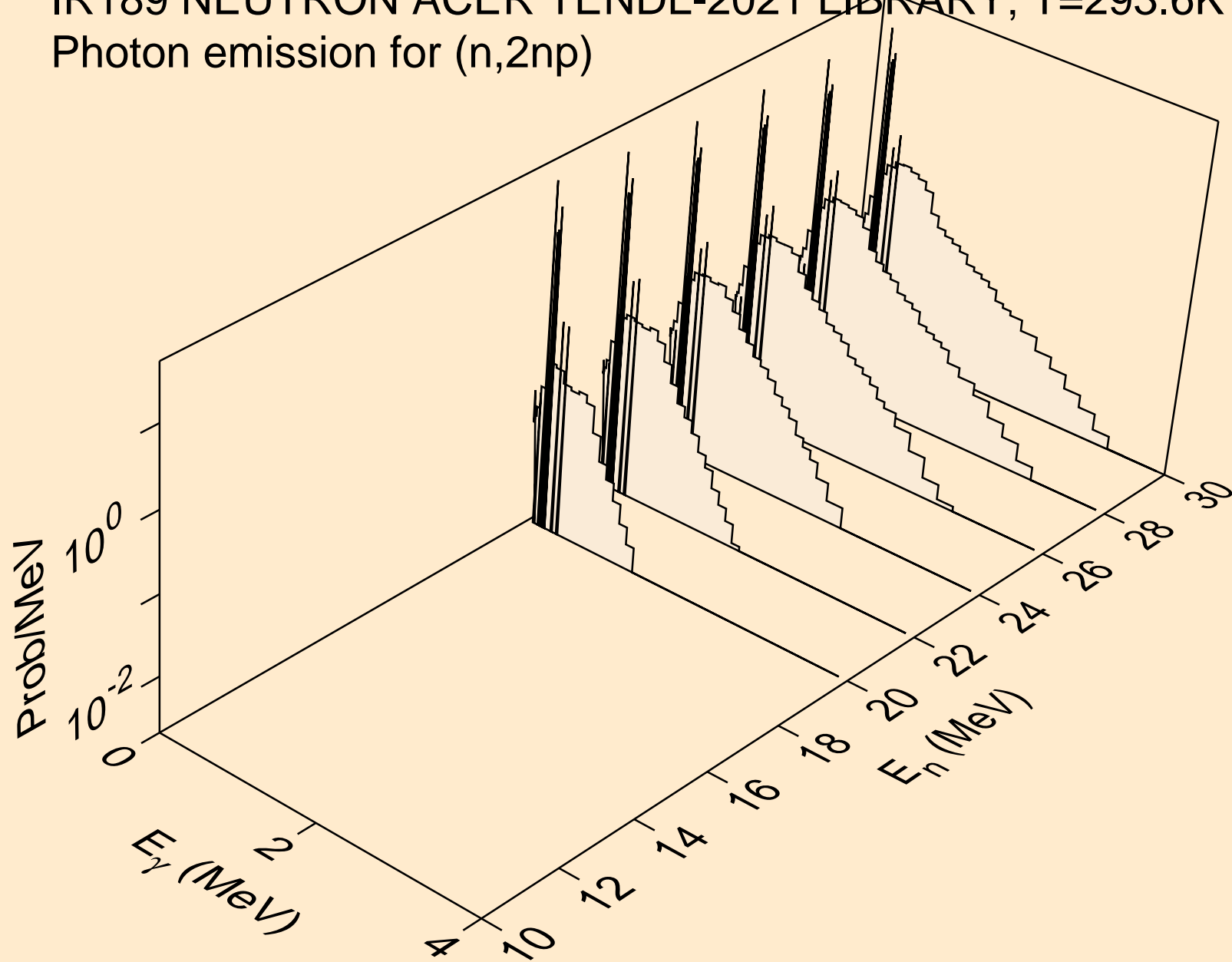
IR189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,2np)



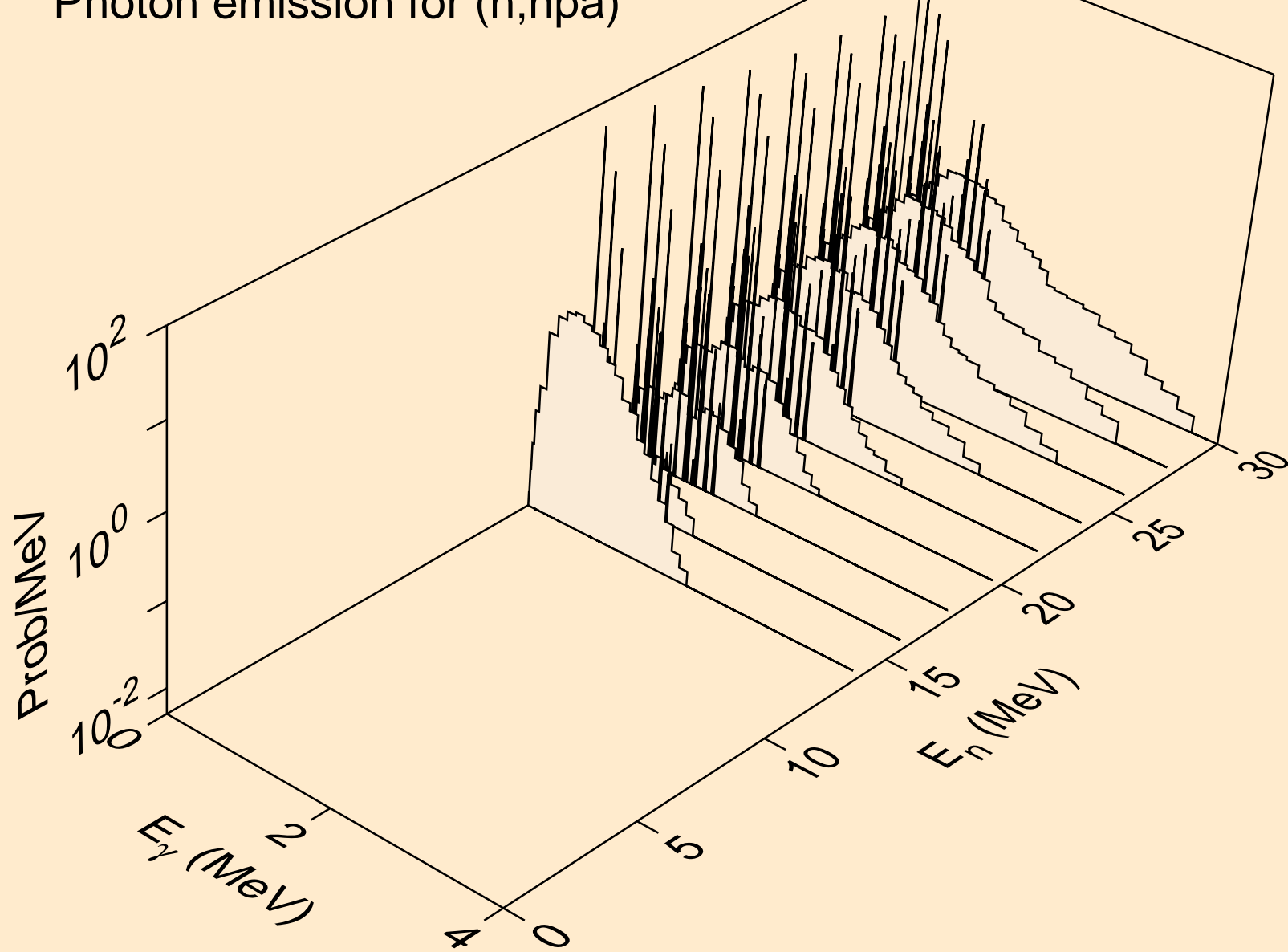
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Photon emission for (n,3np)



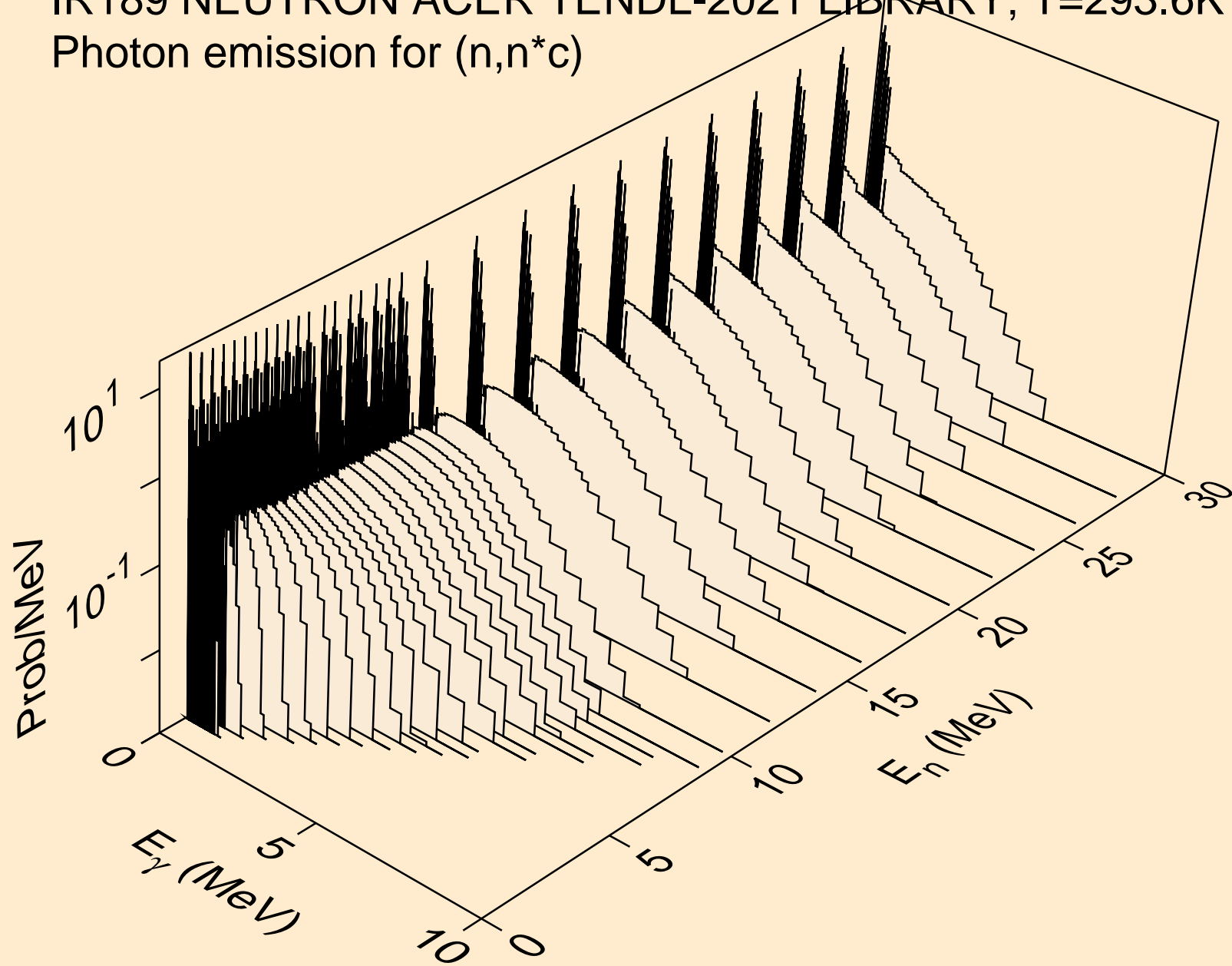
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Photon emission for (n,2np)



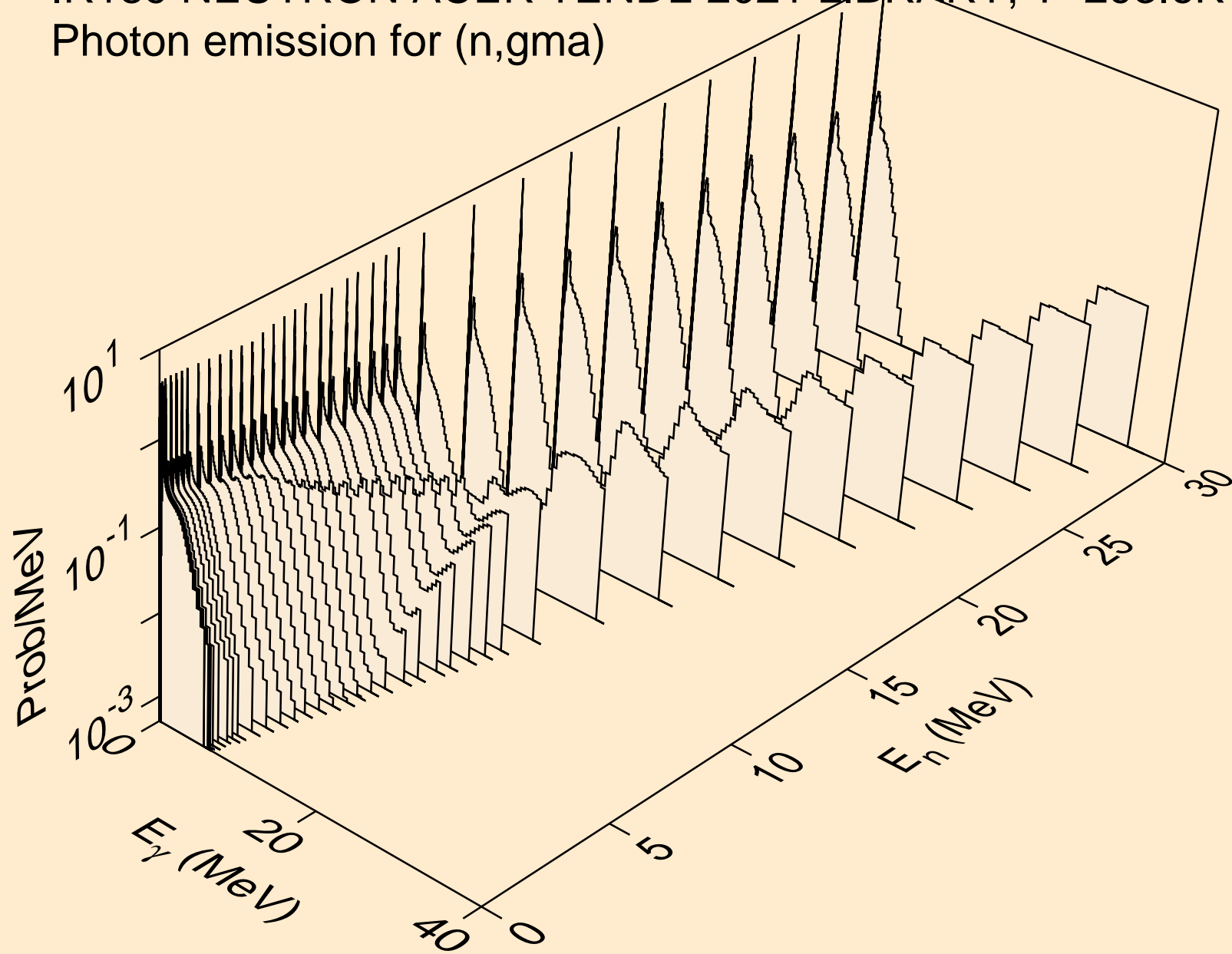
IR189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,npa)



IR189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,n\*c)

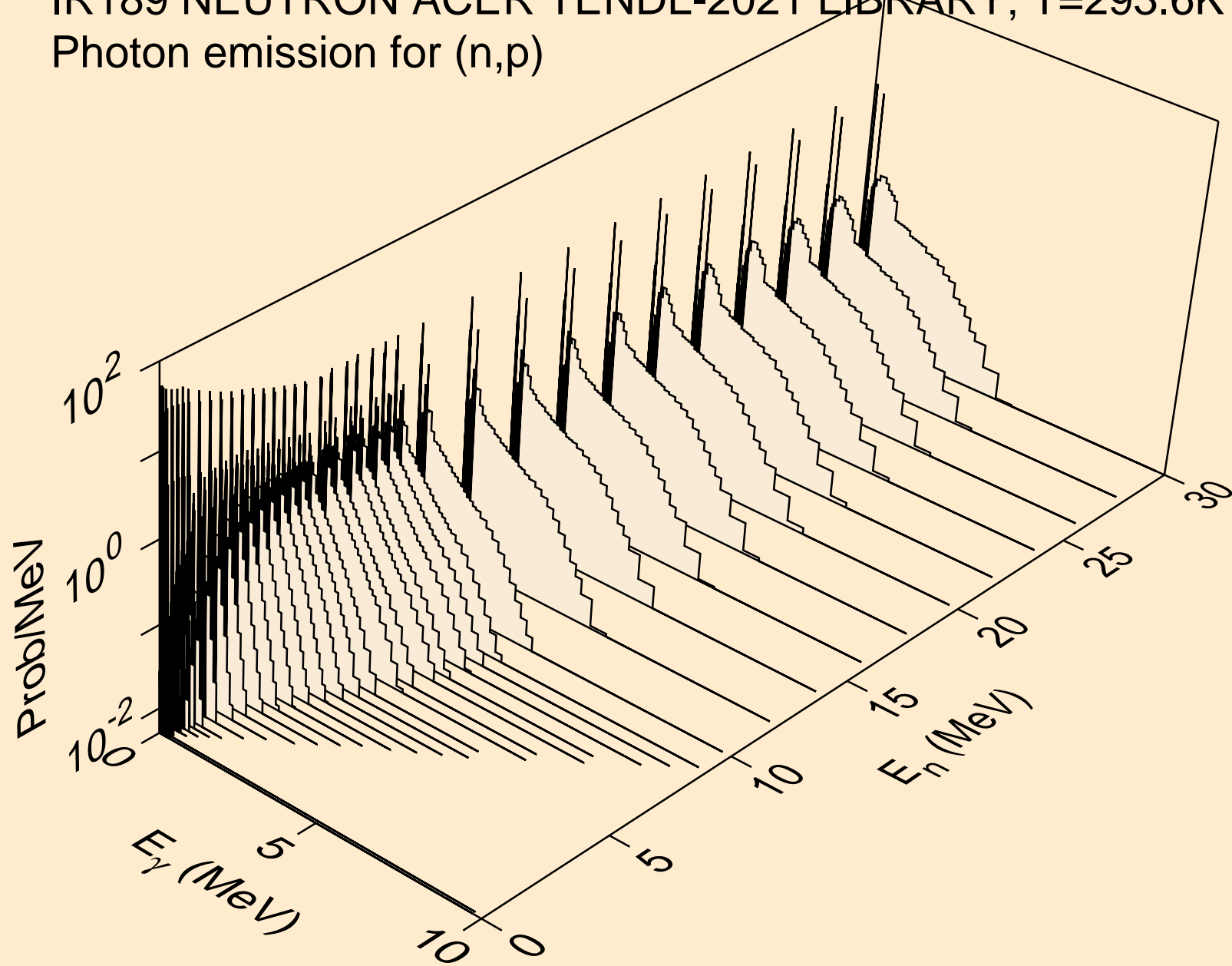


IR189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,gma)

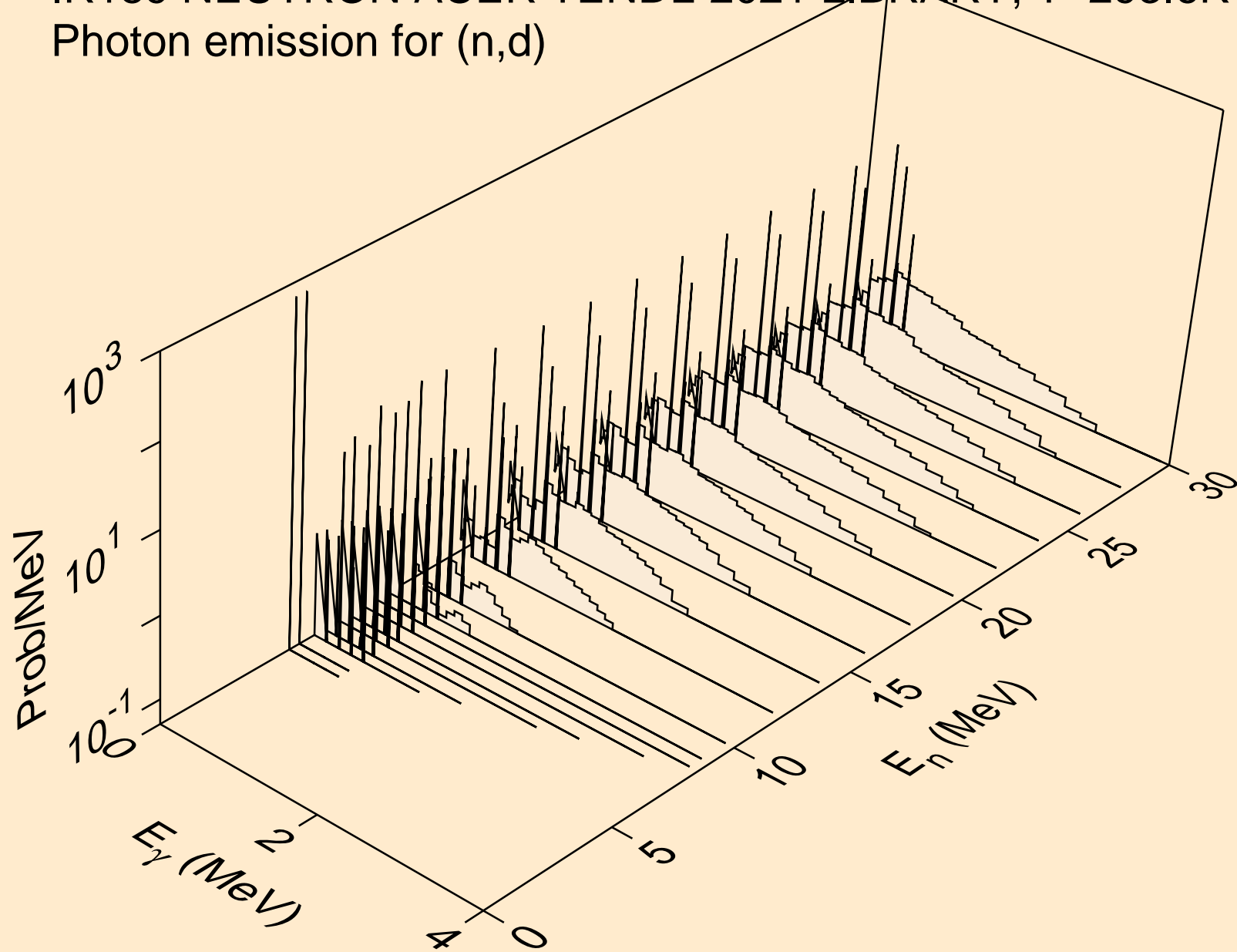




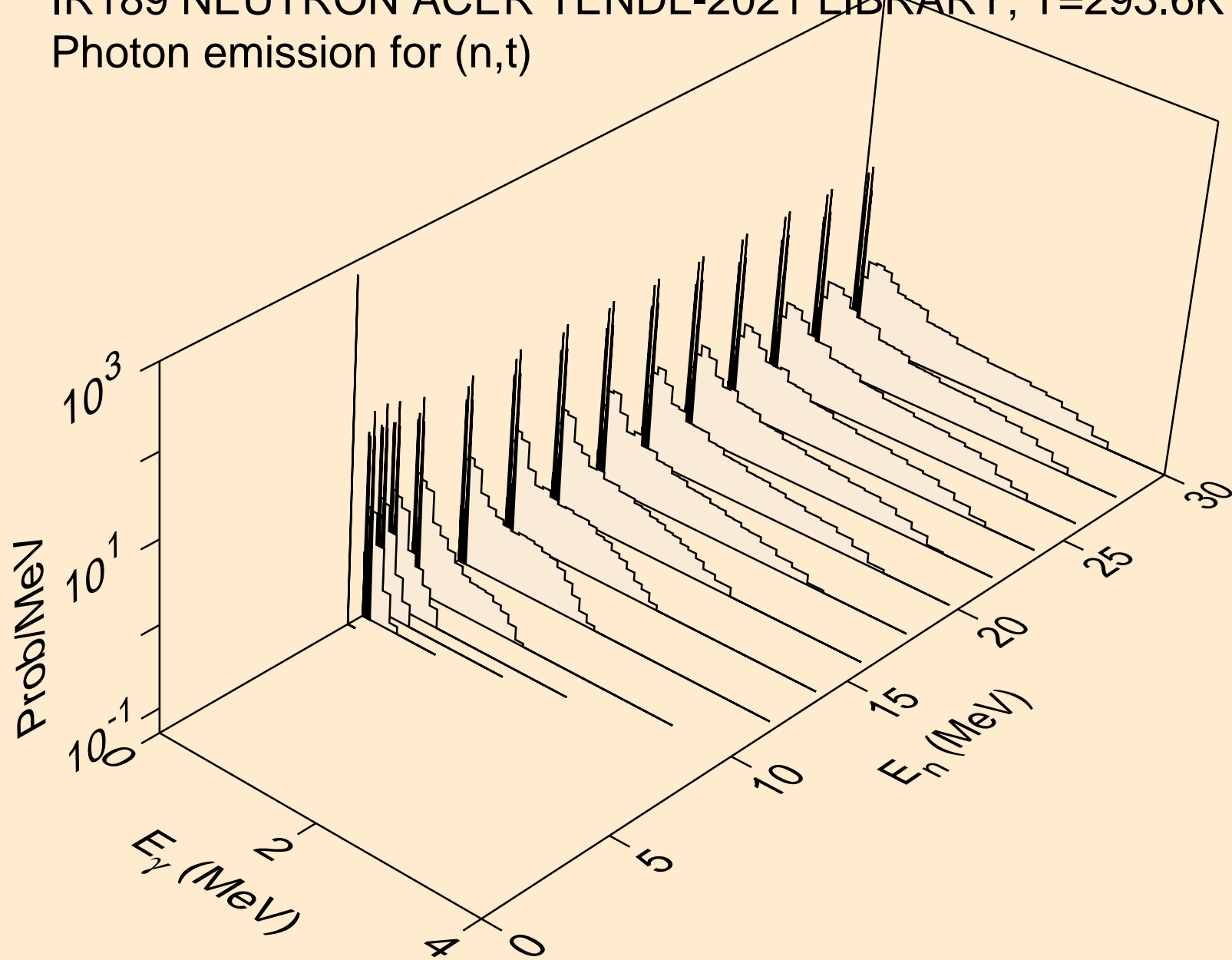
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Photon emission for (n,p)



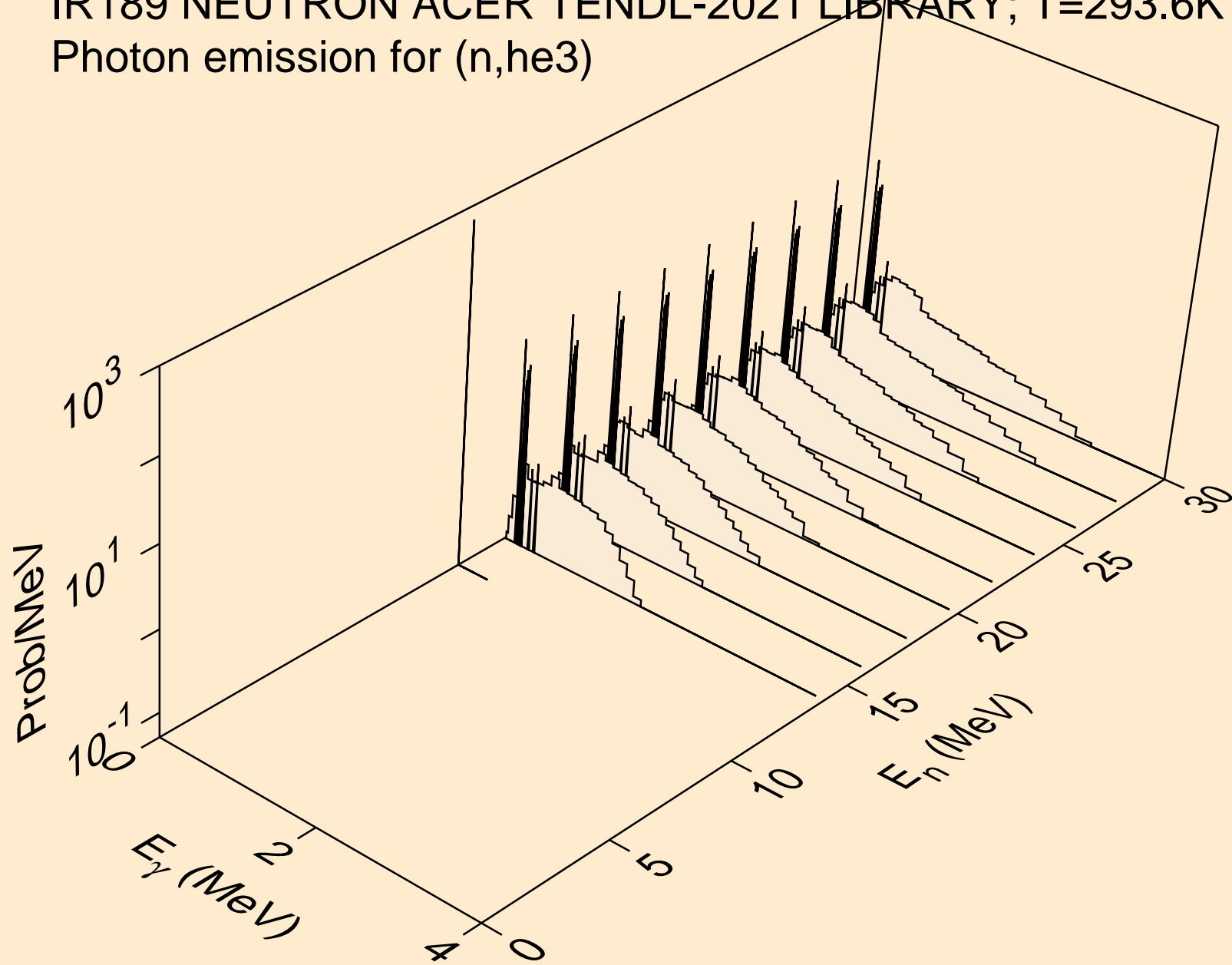
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Photon emission for (n,d)



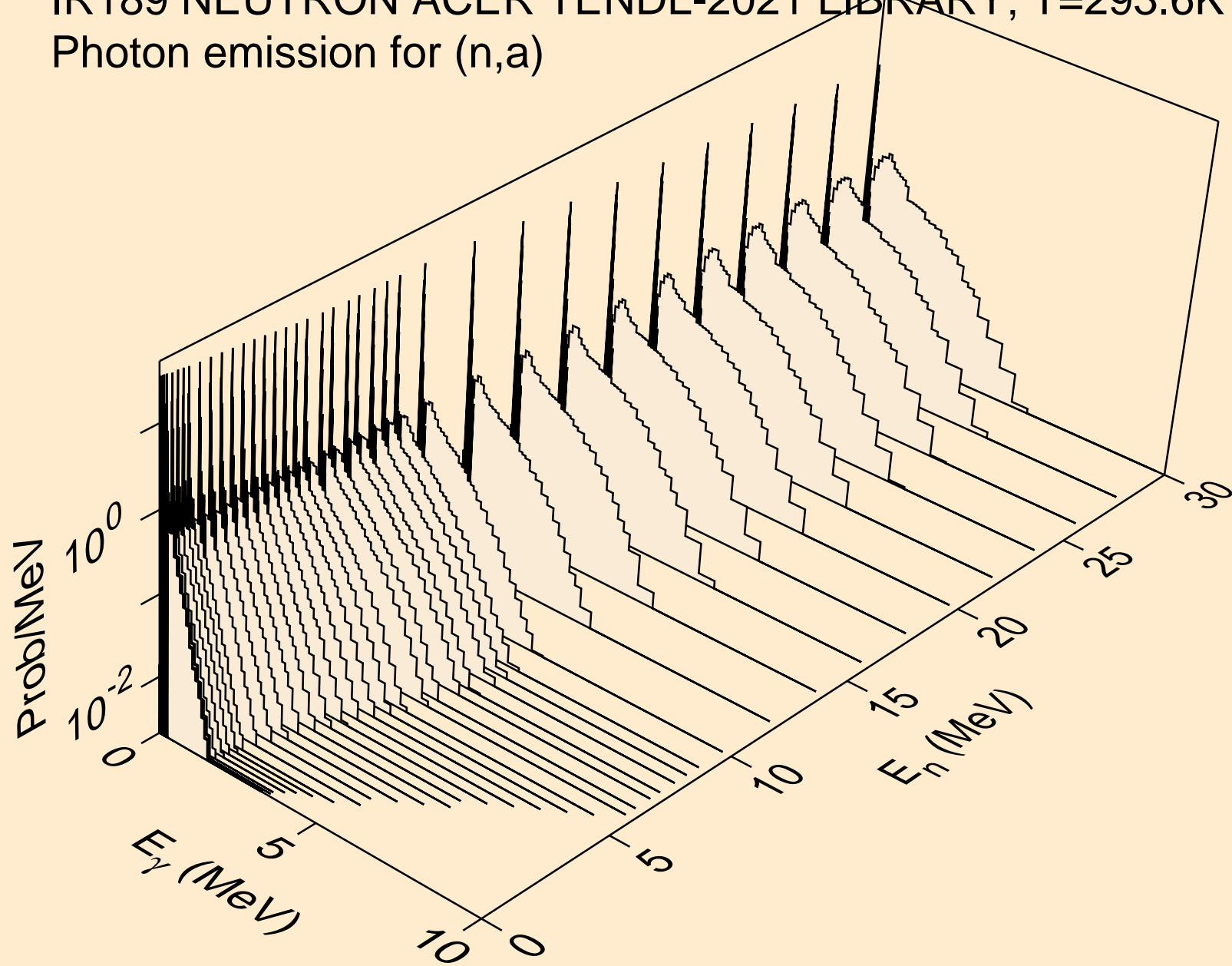
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Photon emission for (n,t)



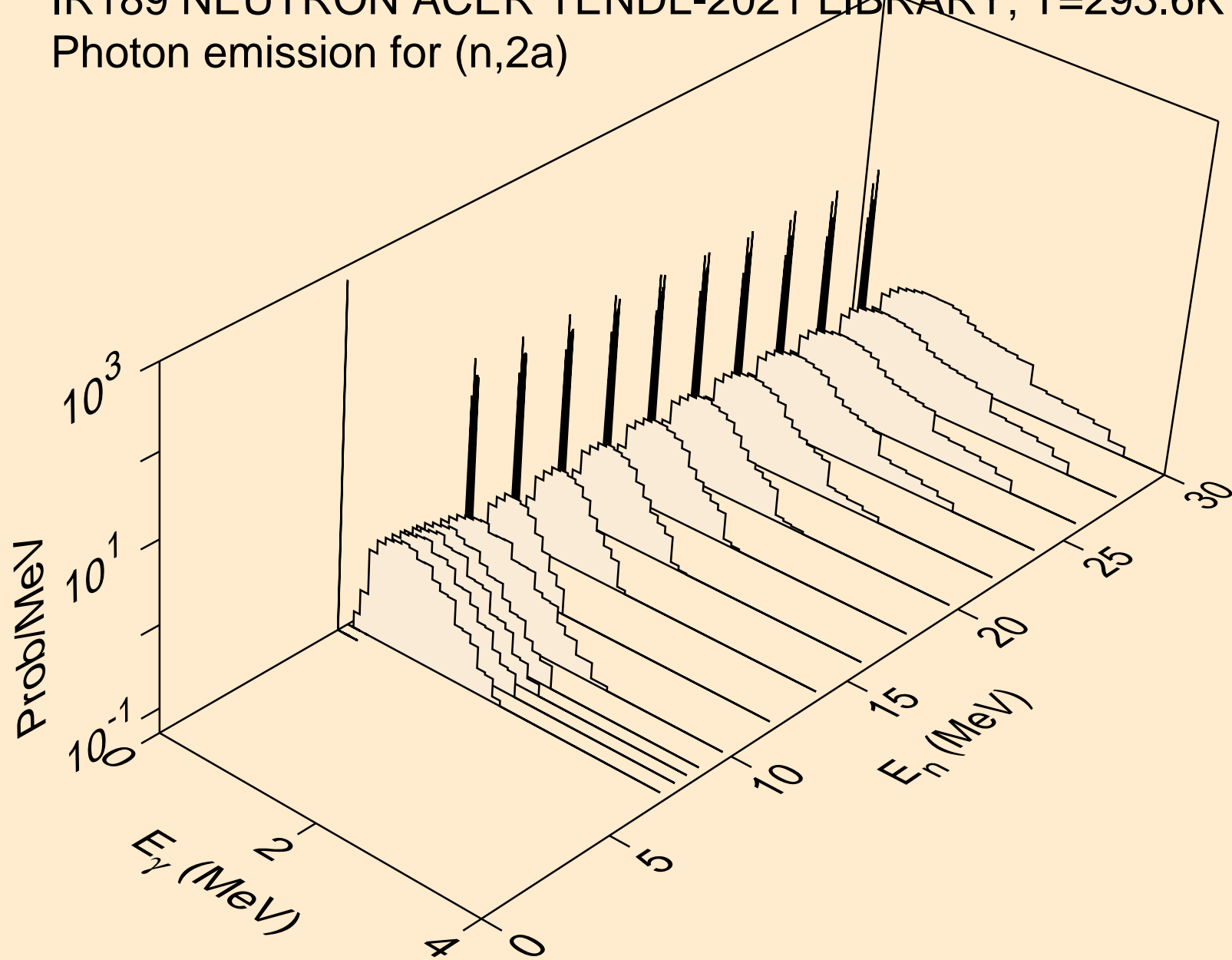
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Photon emission for (n,he3)



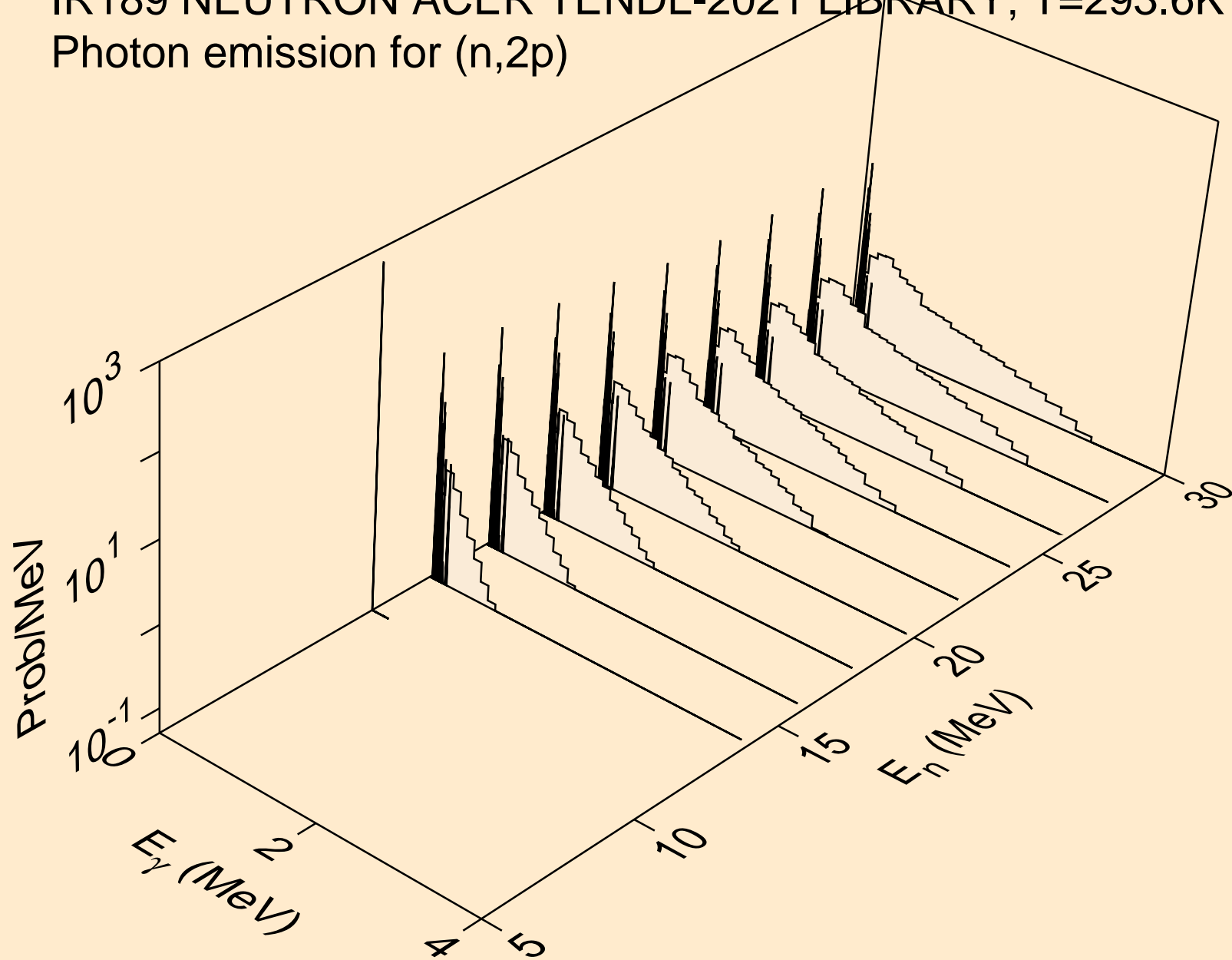
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Photon emission for (n,a)



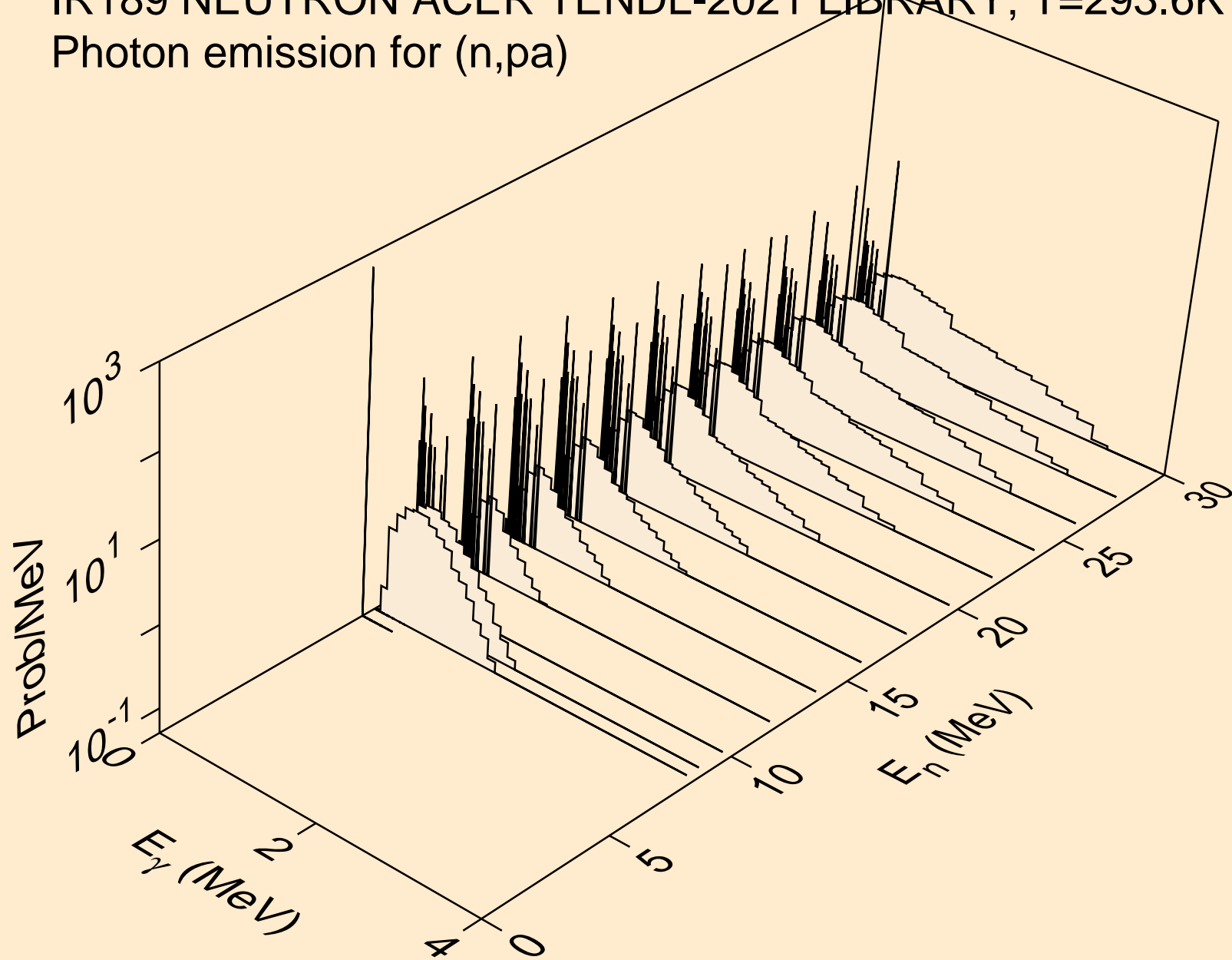
IR189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,2a)



IR189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,2p)

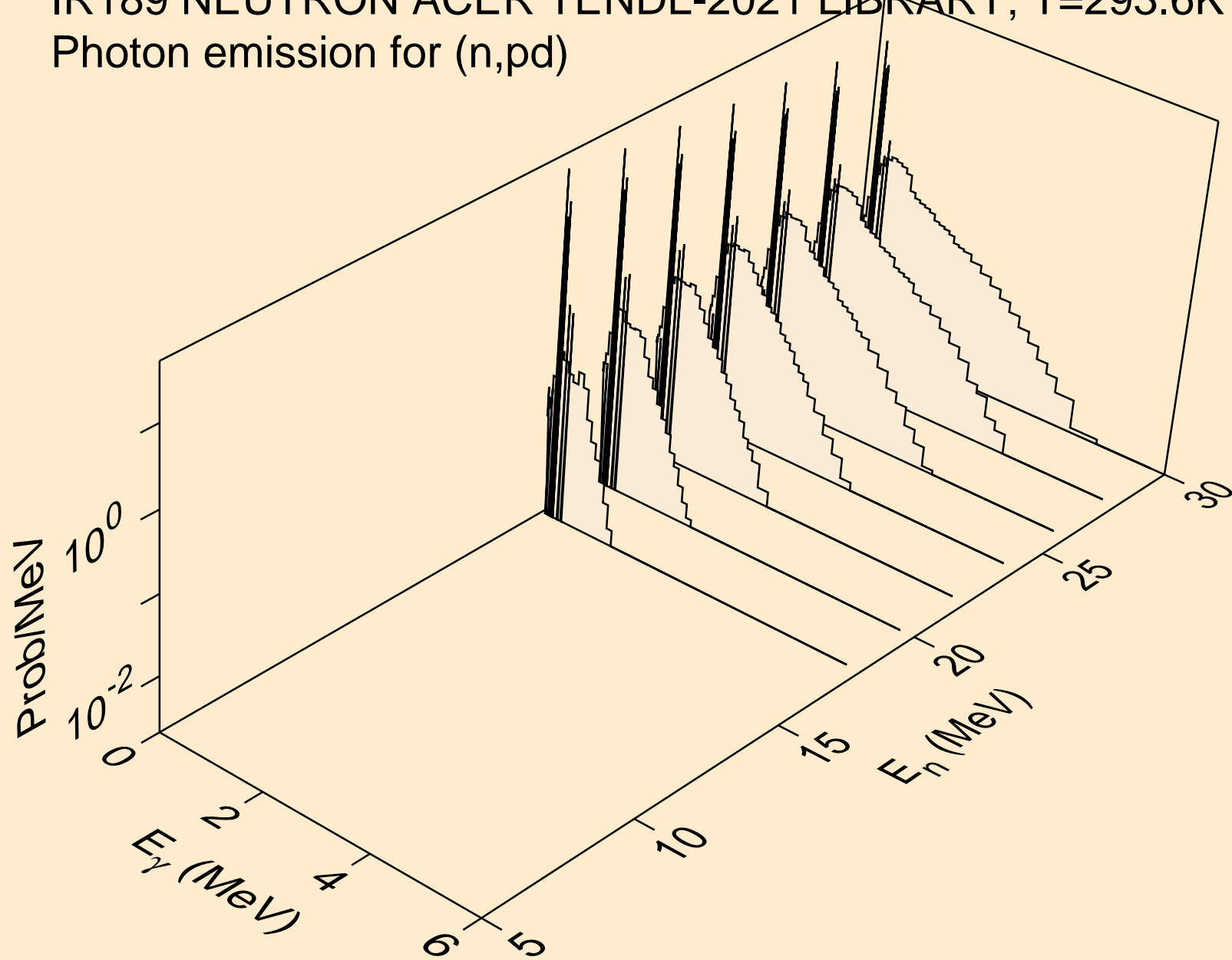


IR189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,p $\alpha$ )

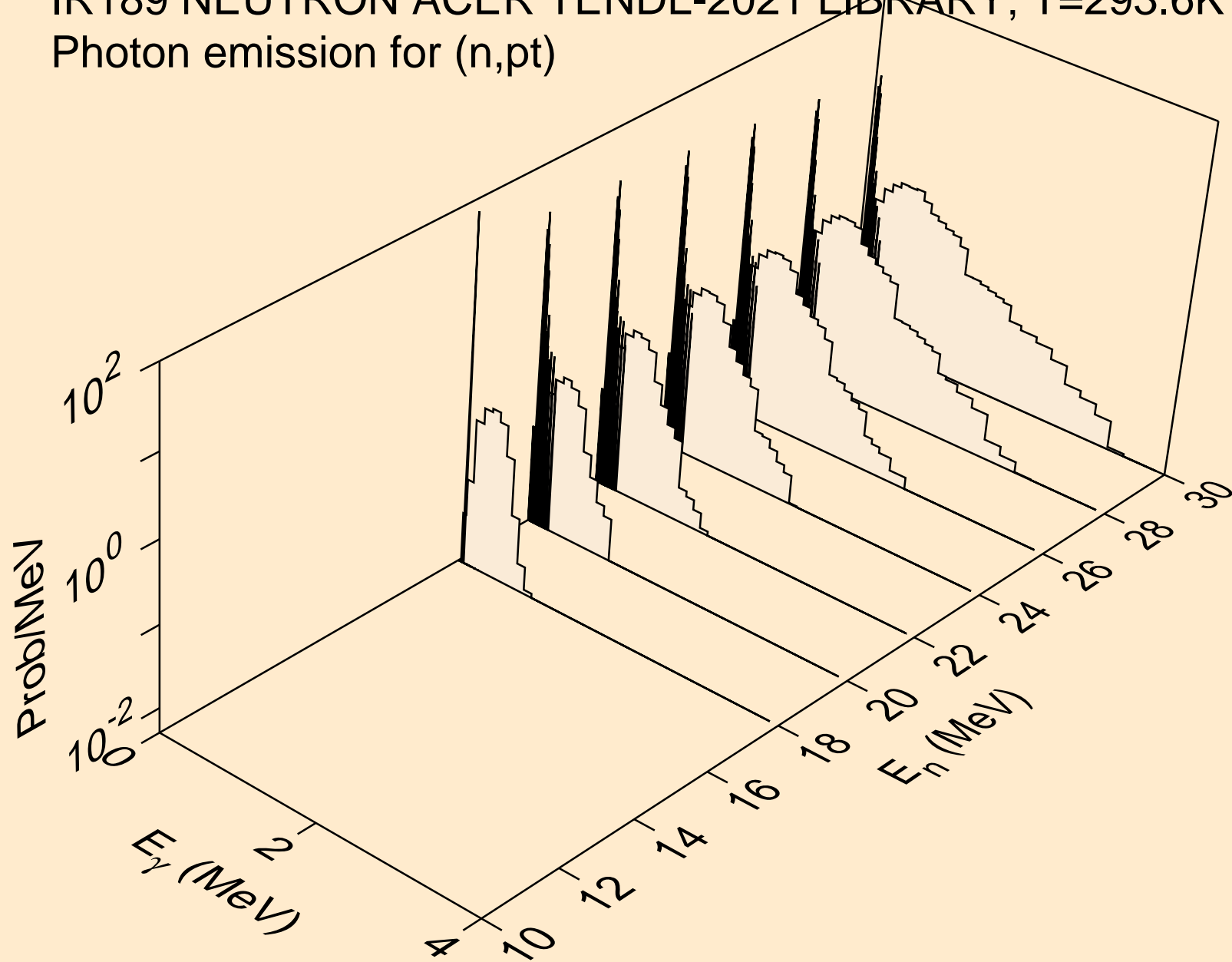




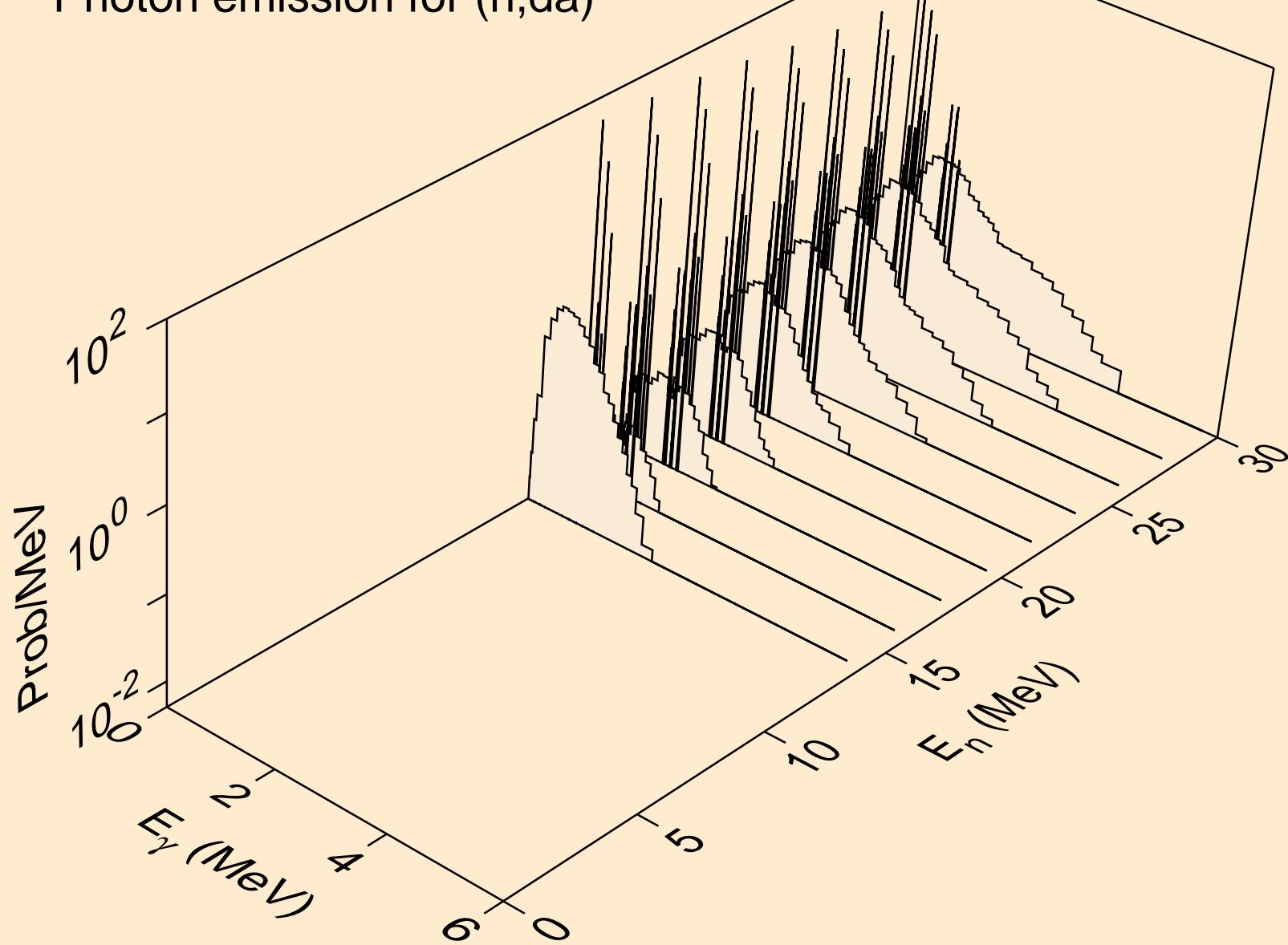
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Photon emission for (n,pd)



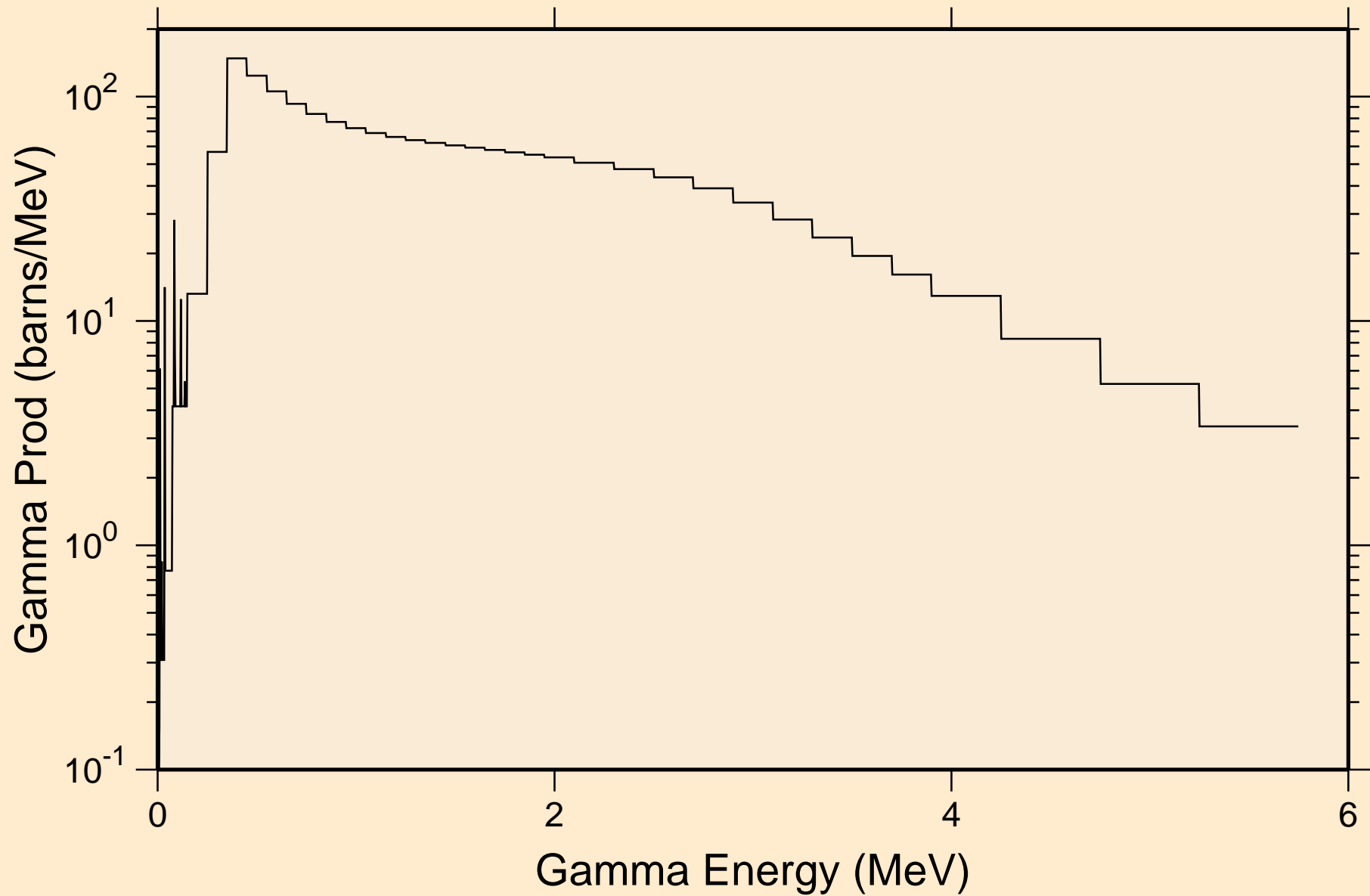
IR189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,pt)



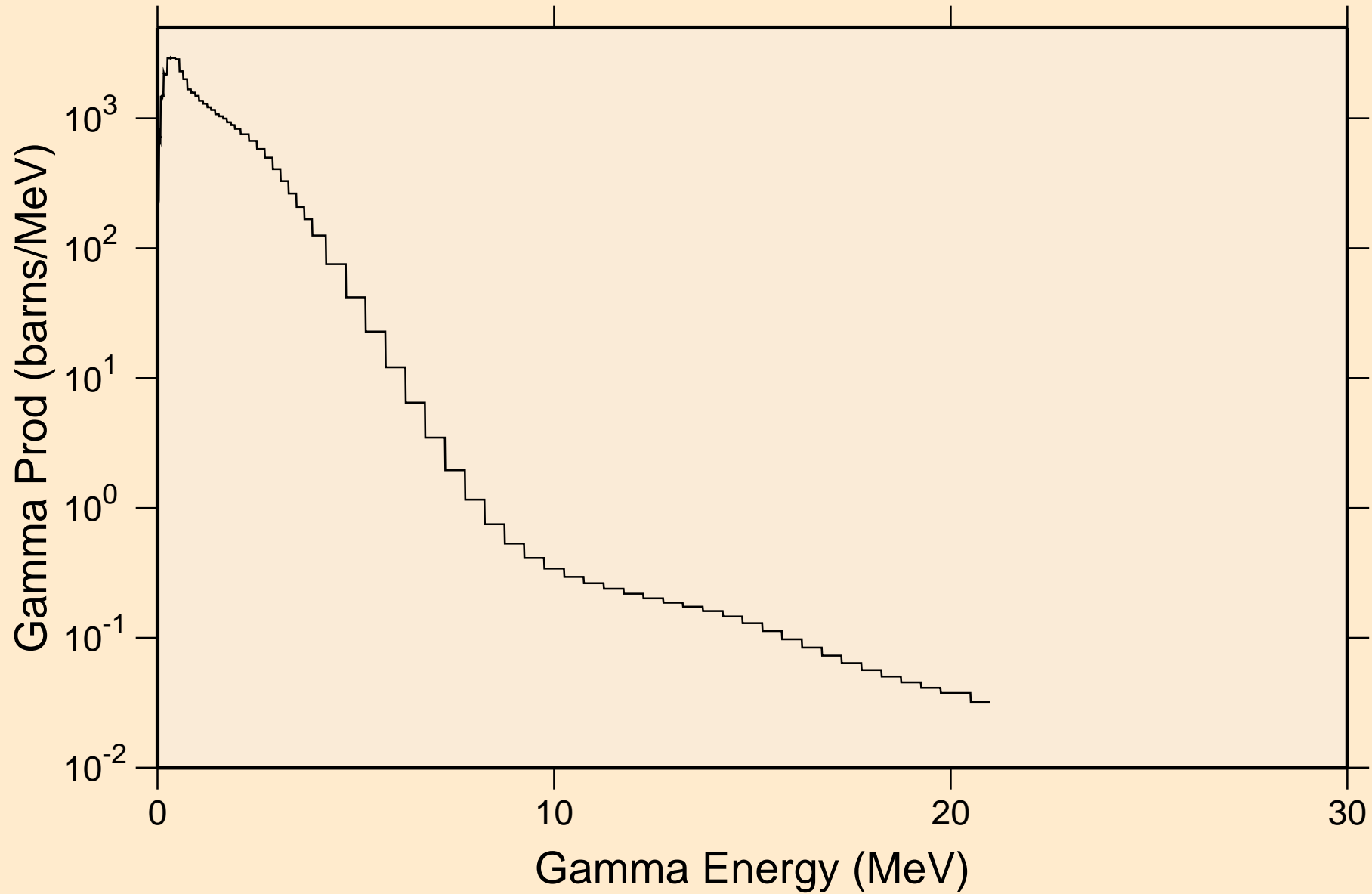
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Photon emission for (n,da)



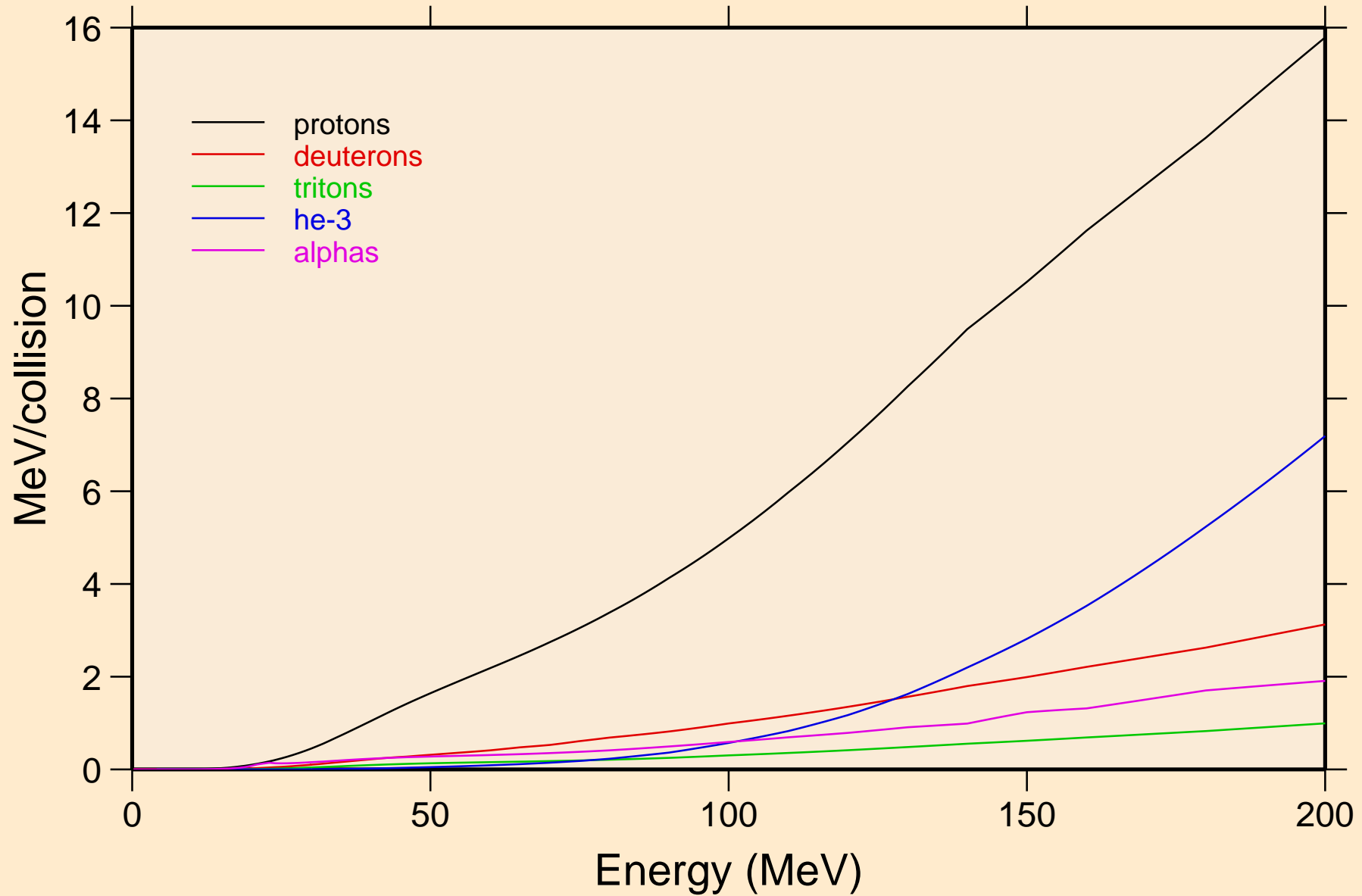
IR189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
thermal capture photon spectrum



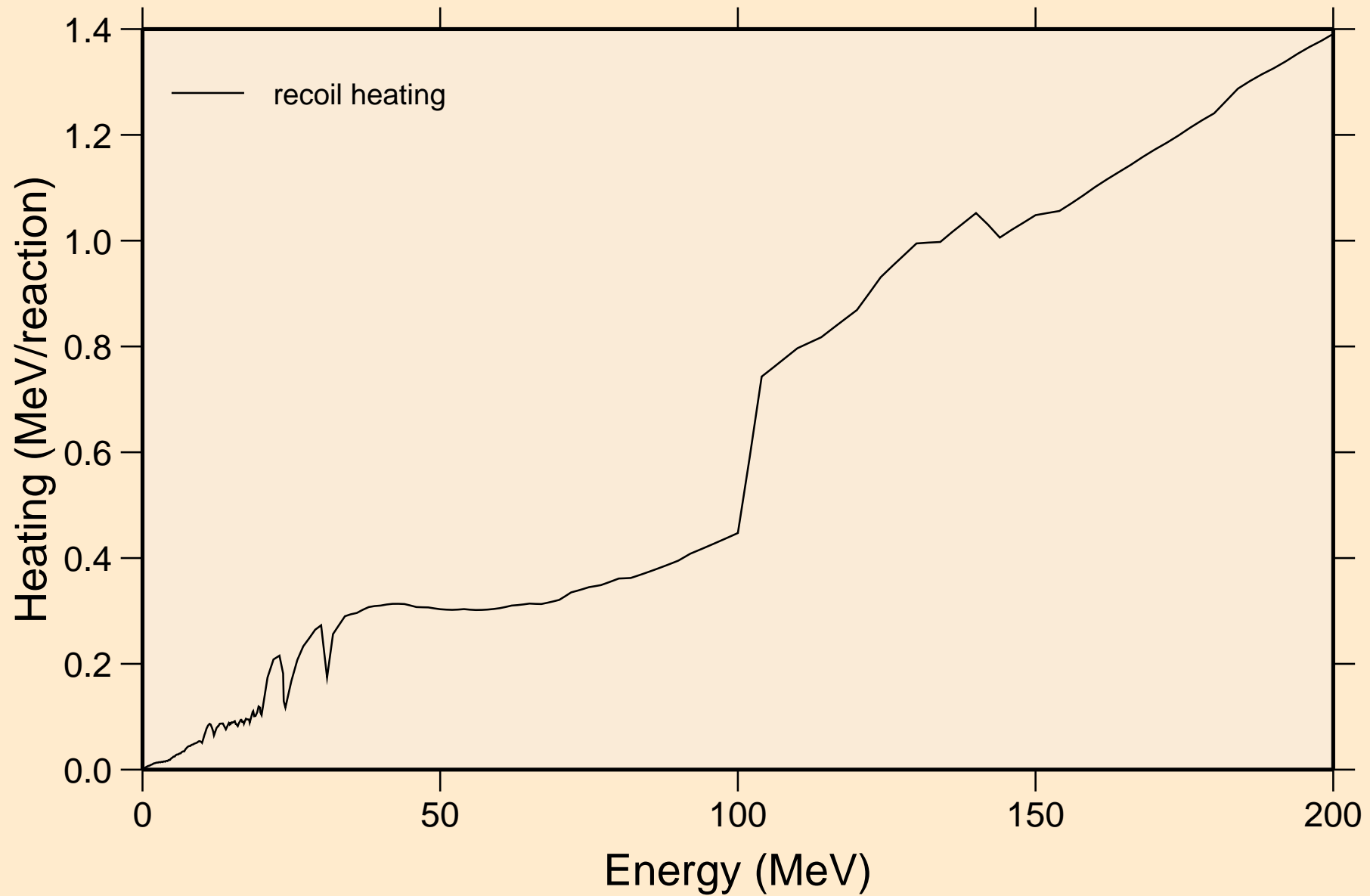
IR189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
14 MeV photon spectrum



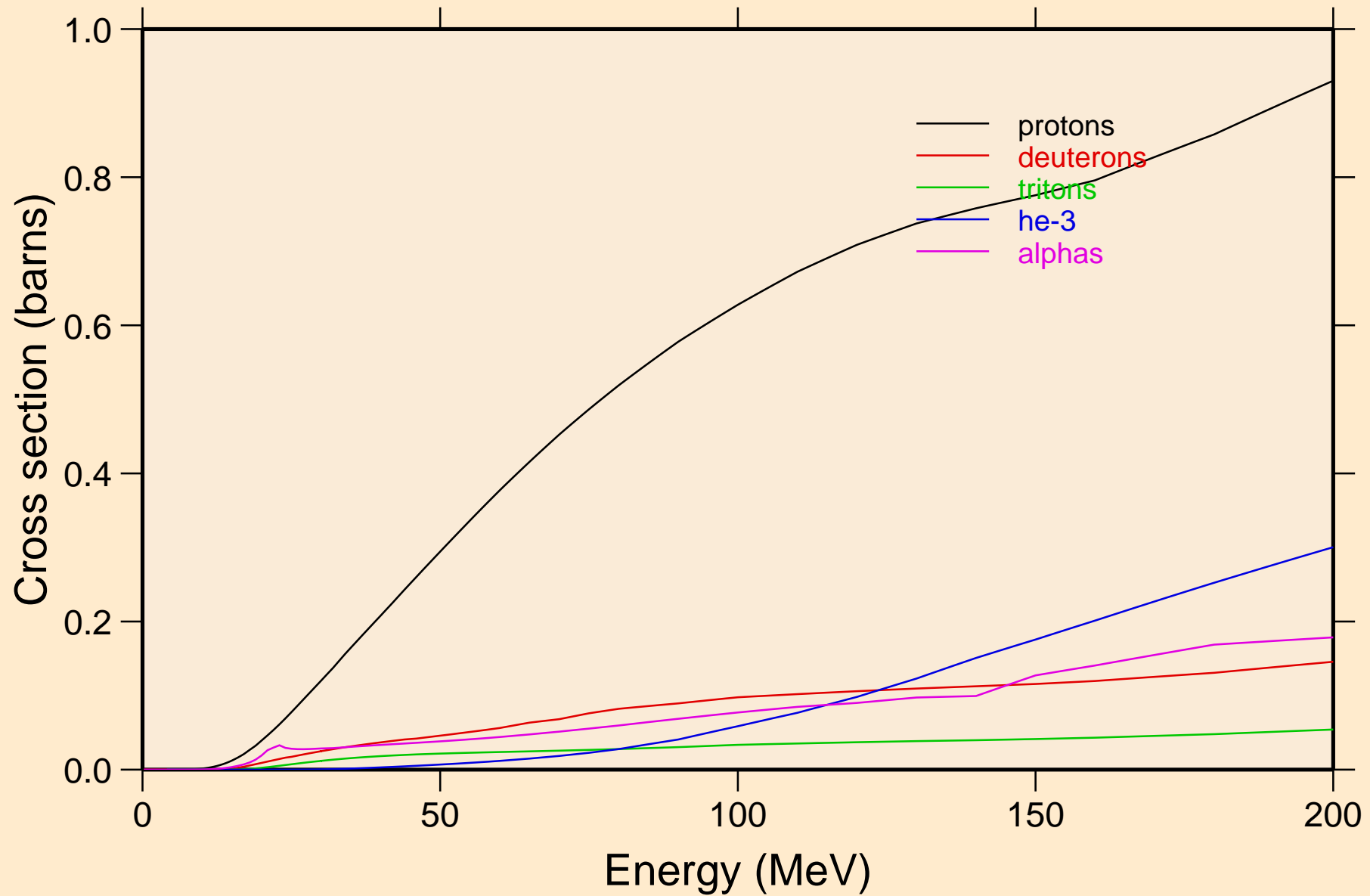
IR189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Particle heating contributions



IR189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Recoil Heating

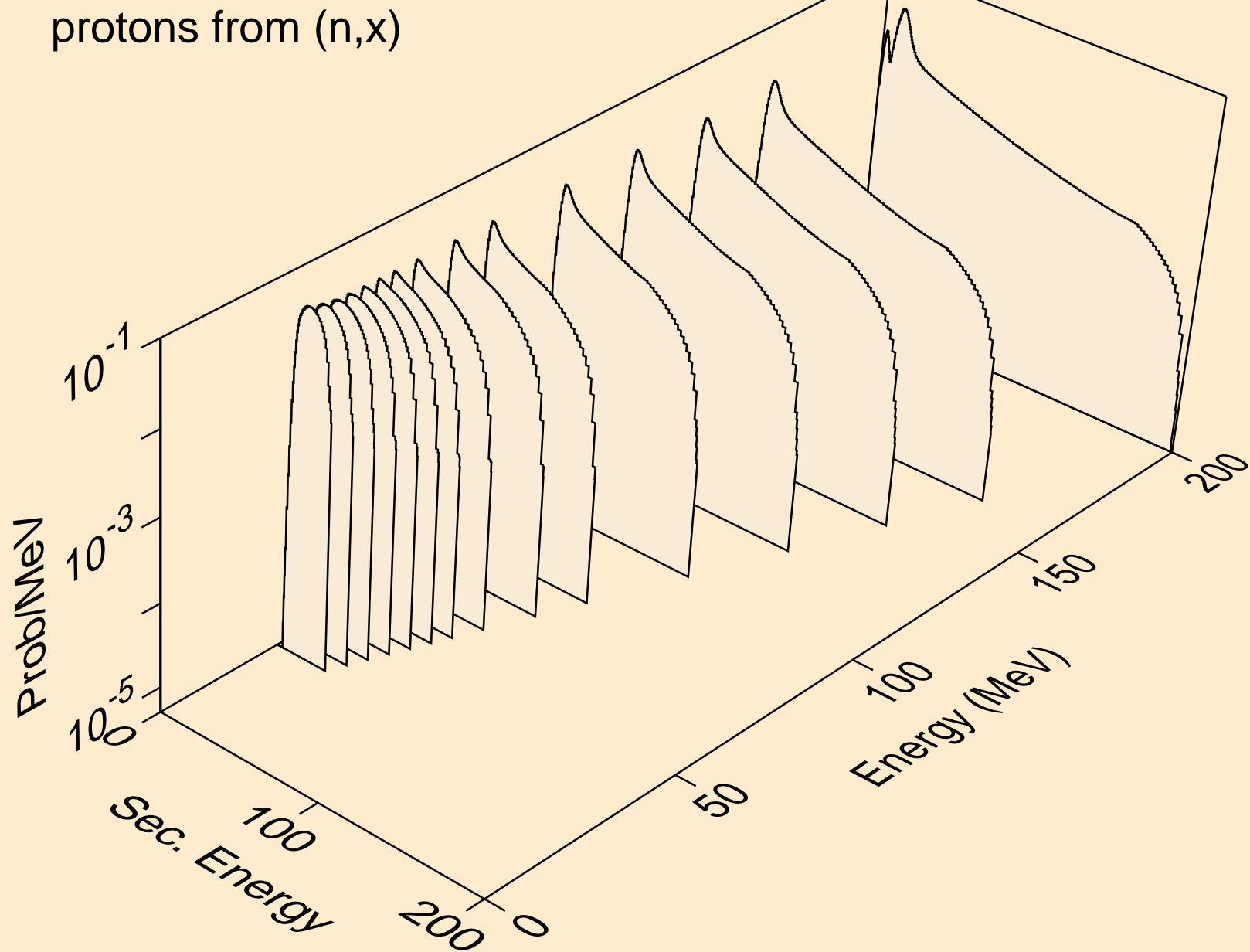


IR189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Particle production cross sections

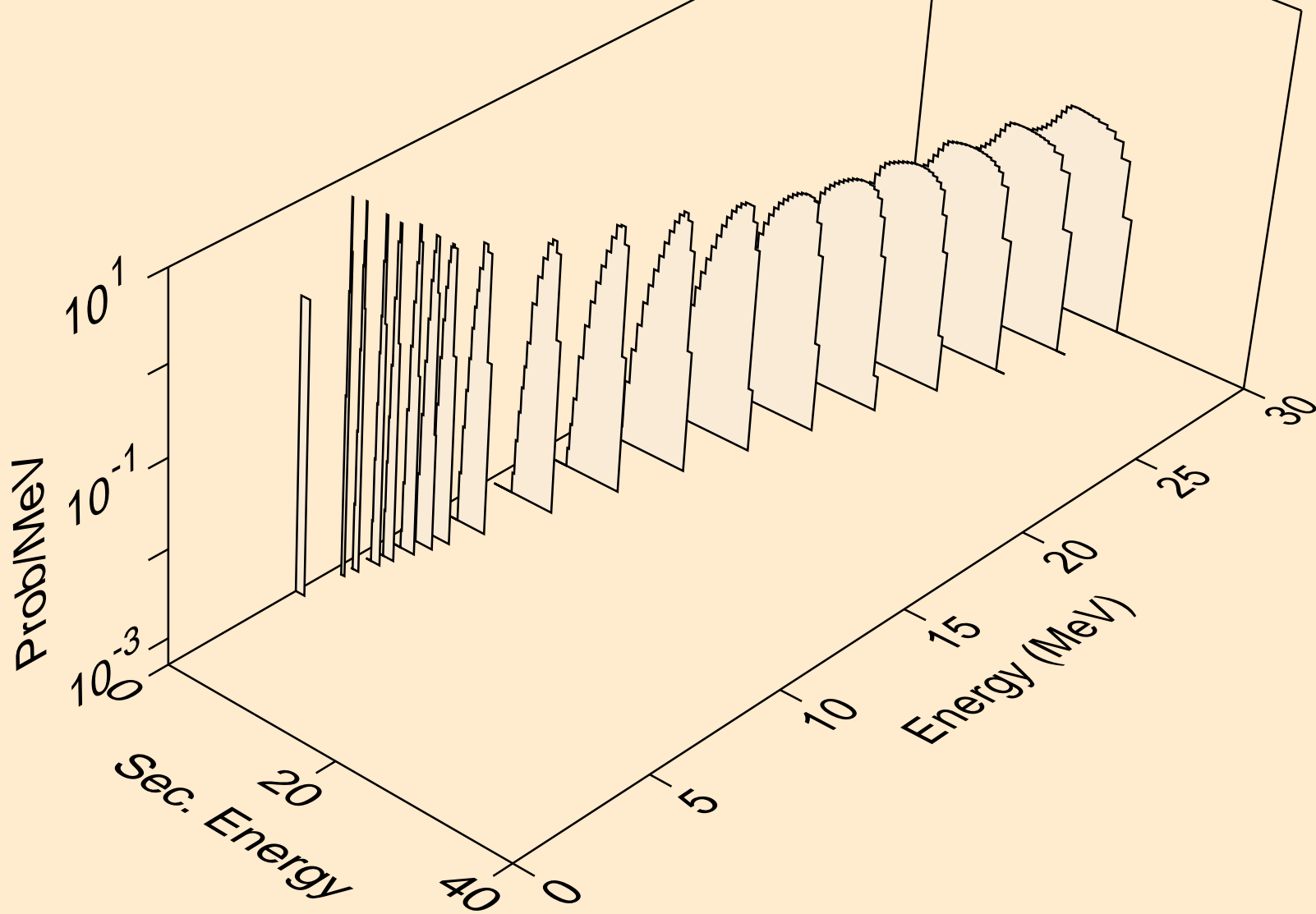




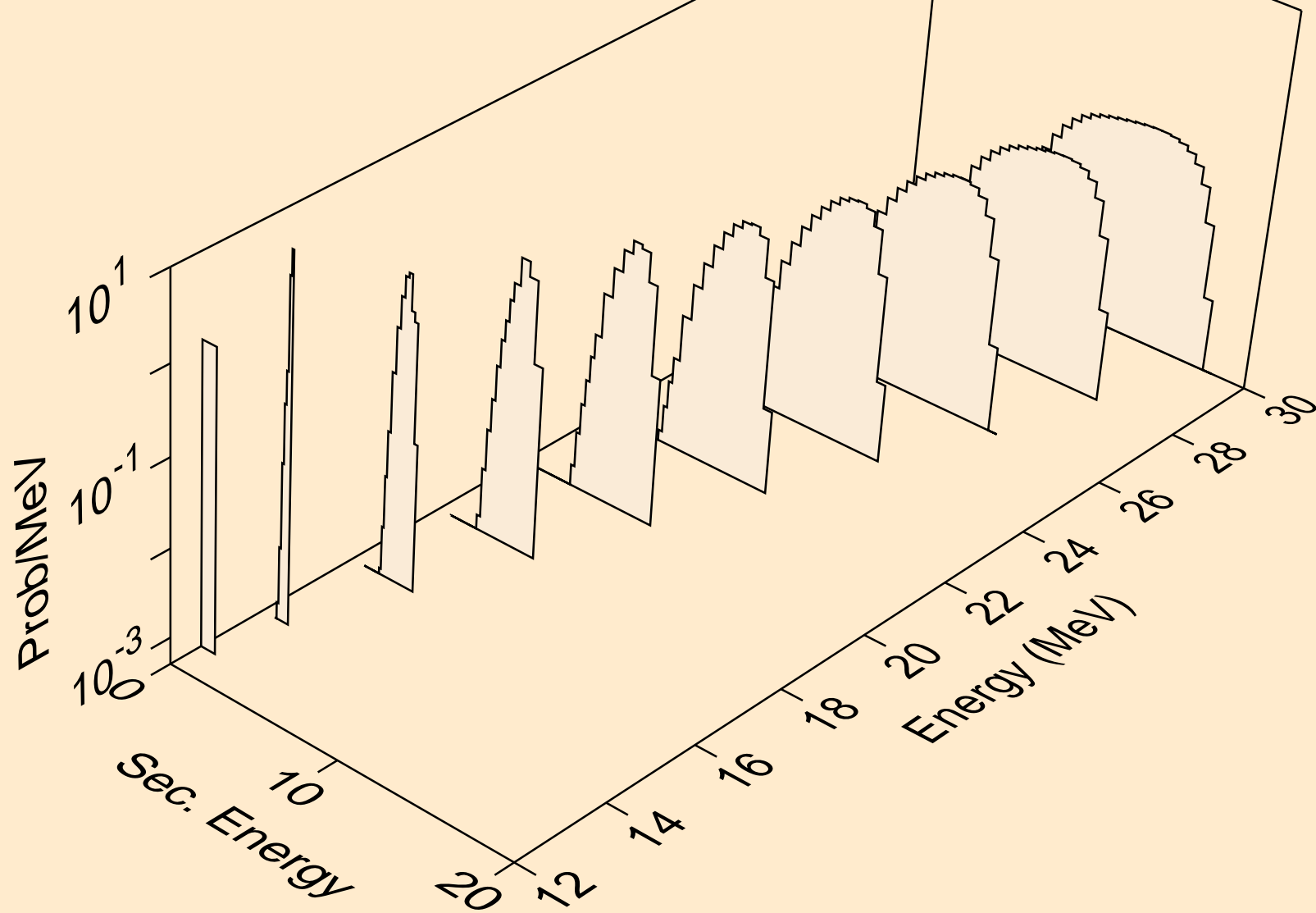
IR189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
protons from (n,x)



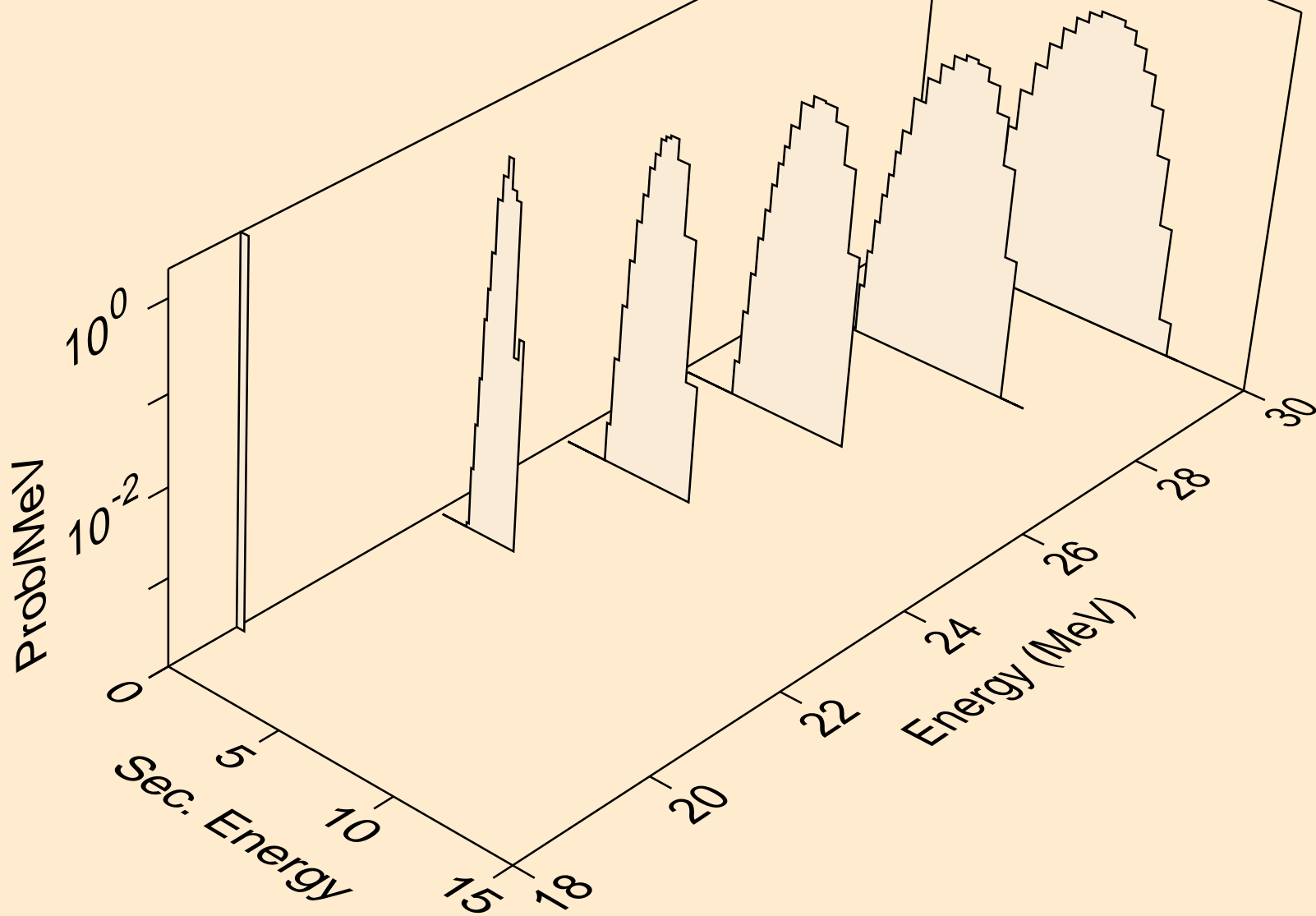
IR189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
protons from (n,n\*)p



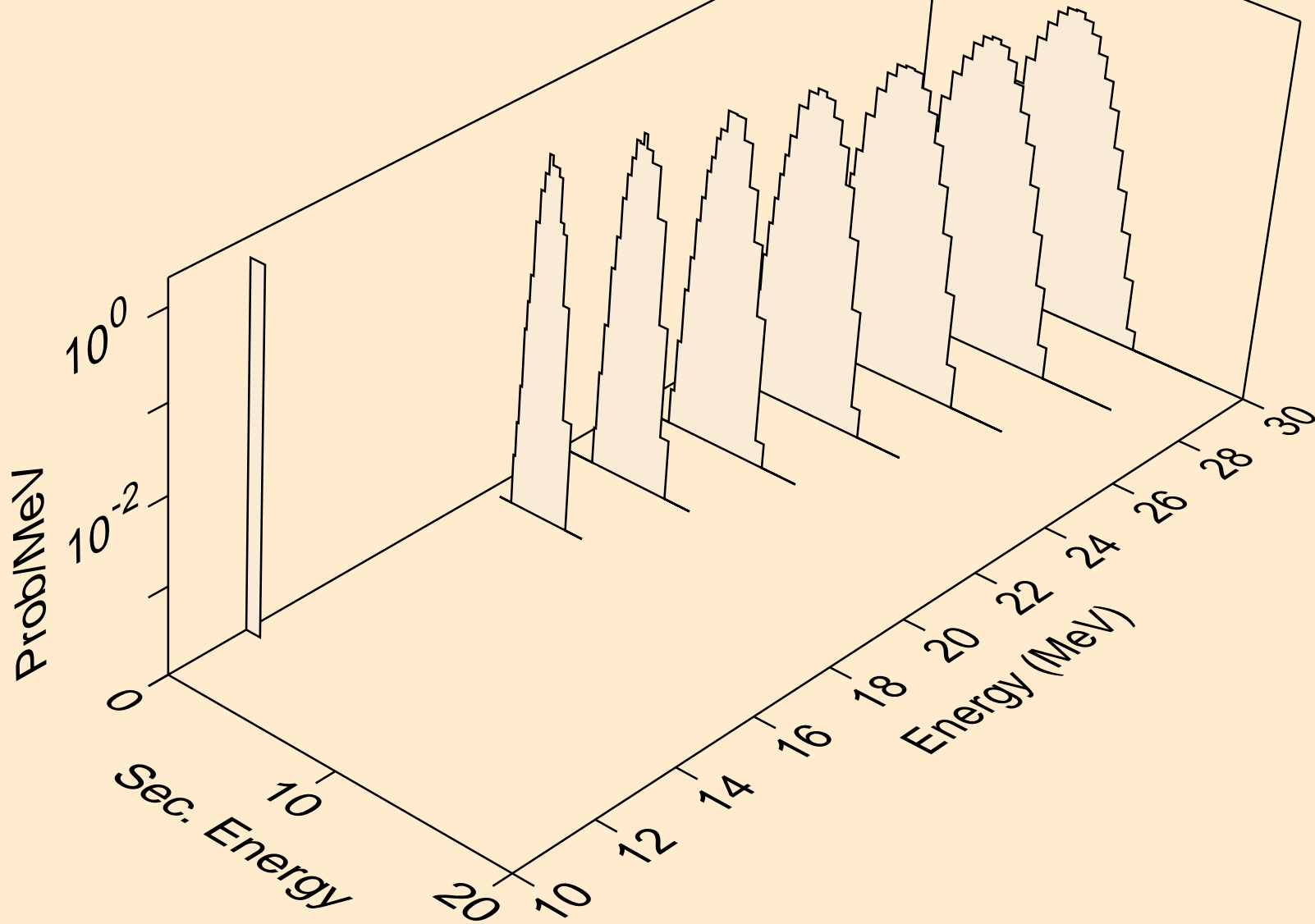
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protons from (n,2np)



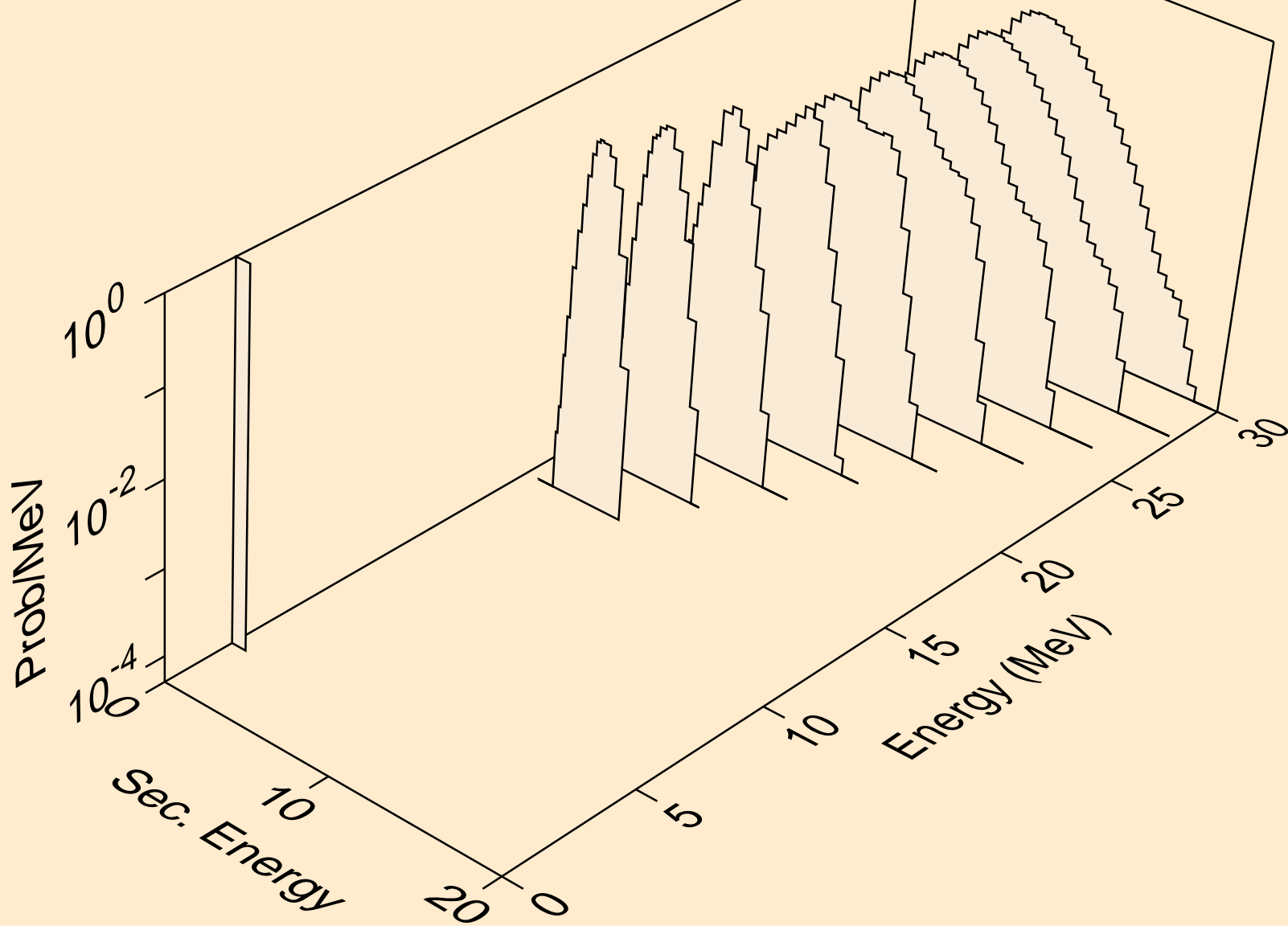
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protons from (n,3np)



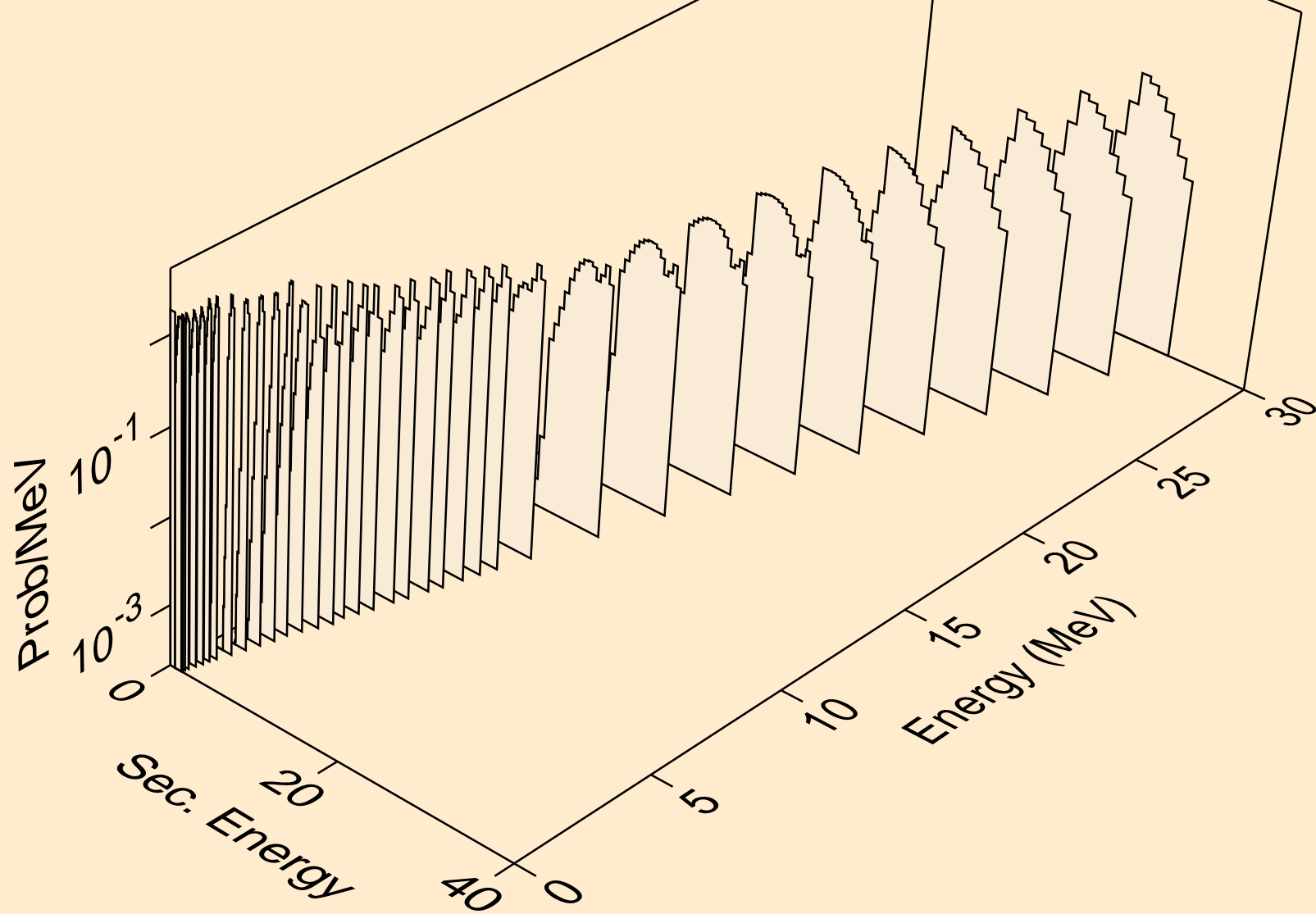
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protons from (n,2np)



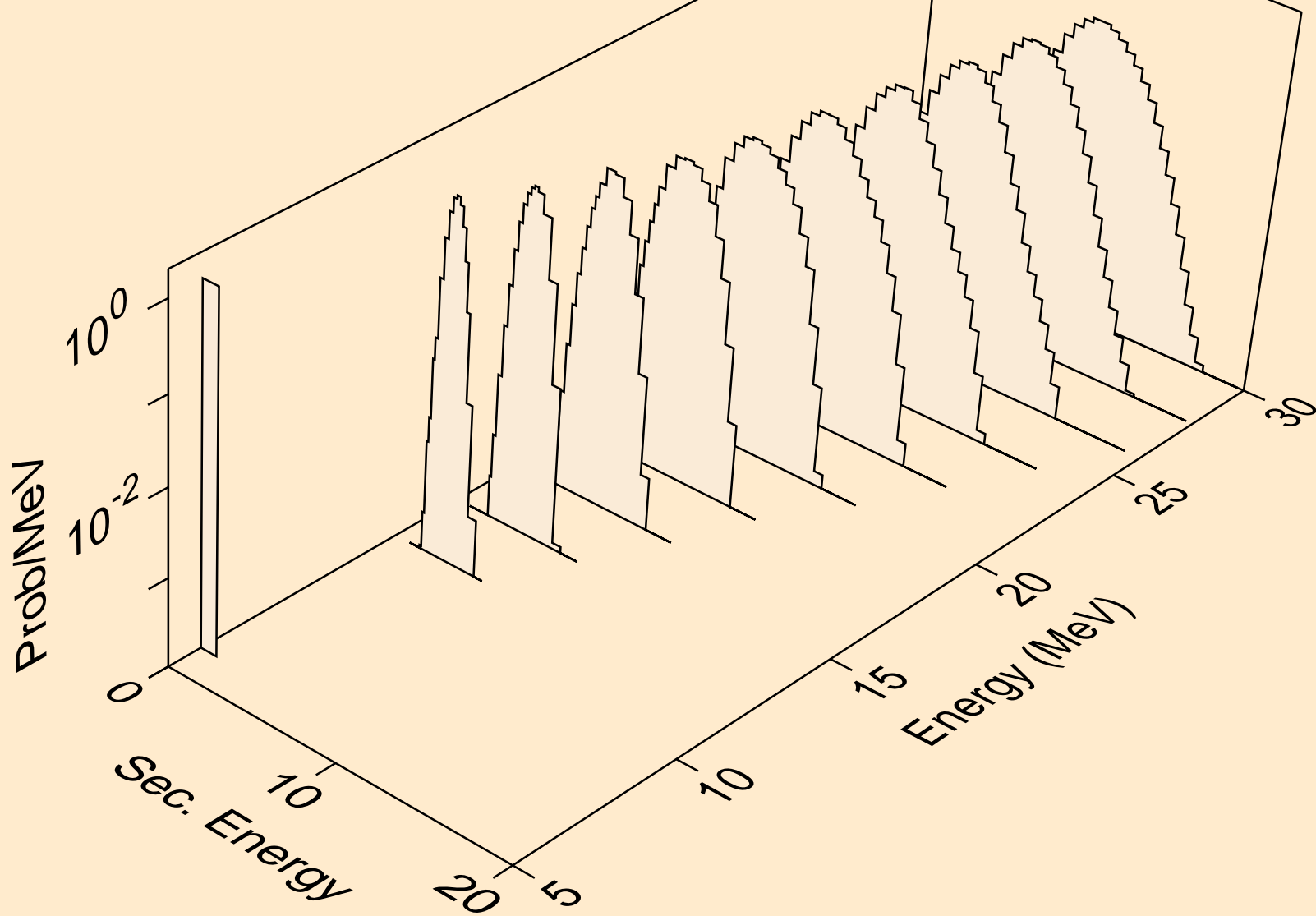
IR189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
protons from (n,npa)



IR189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
protons from (n,p)

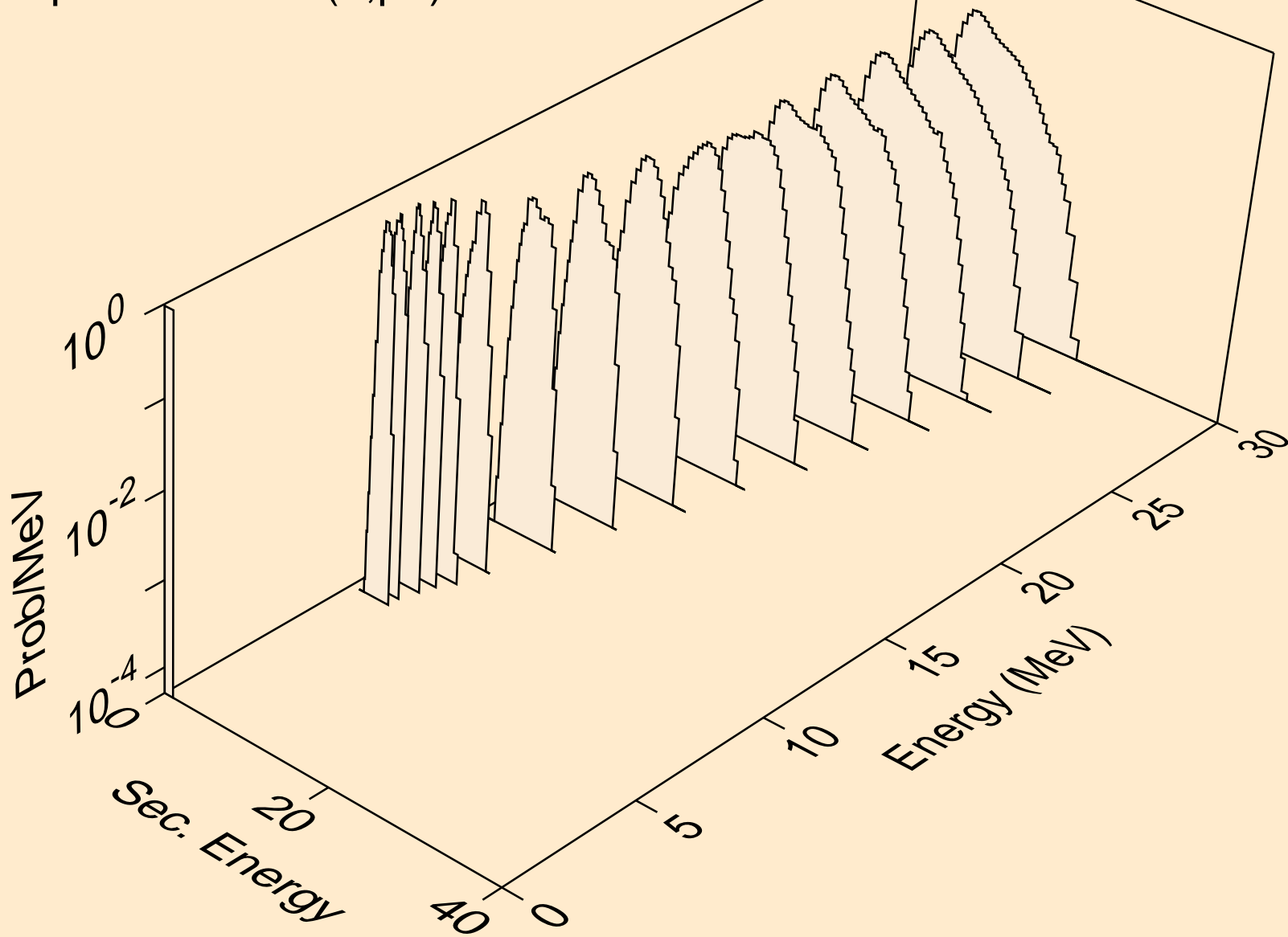


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protons from (n,2p)

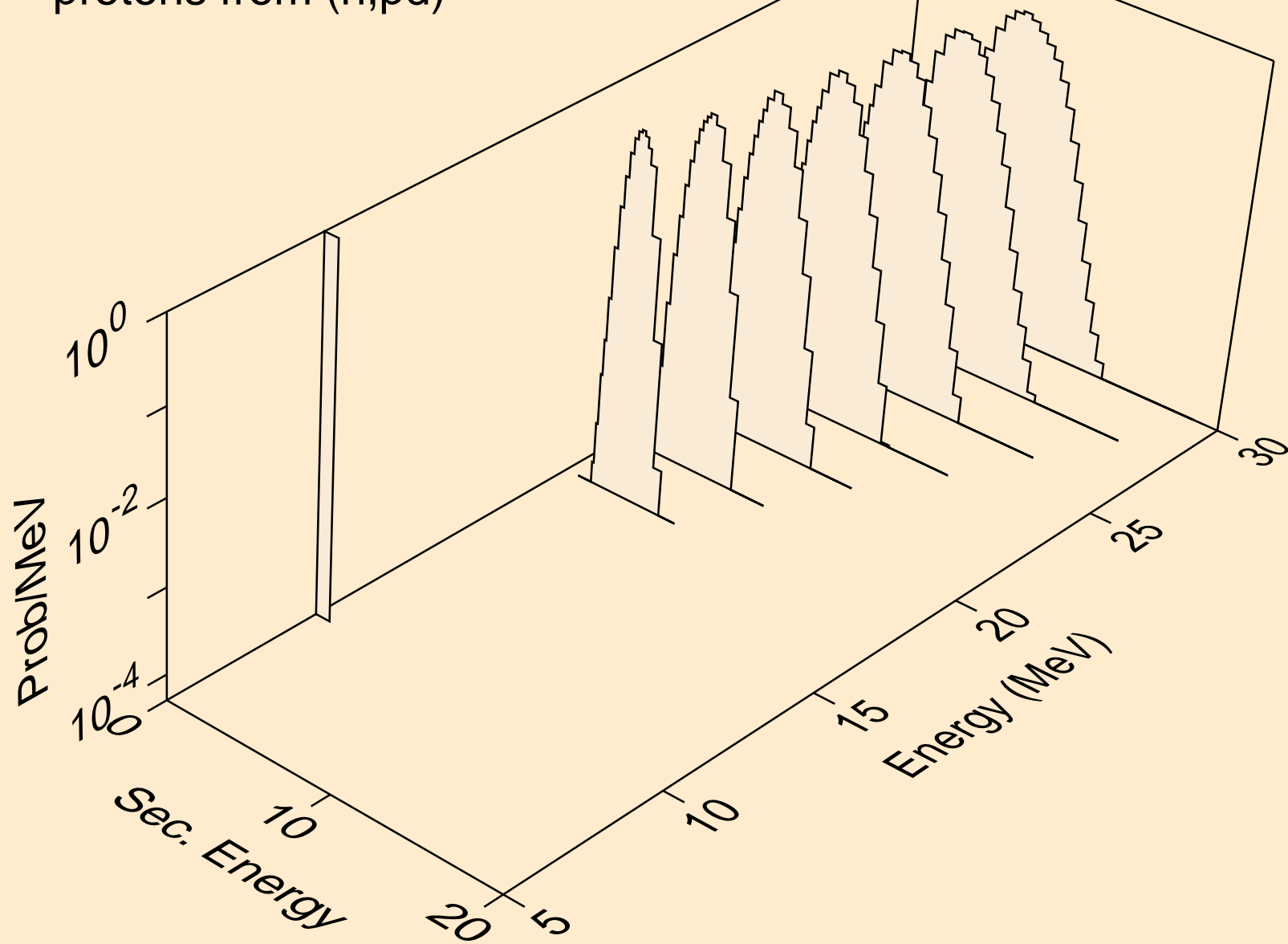




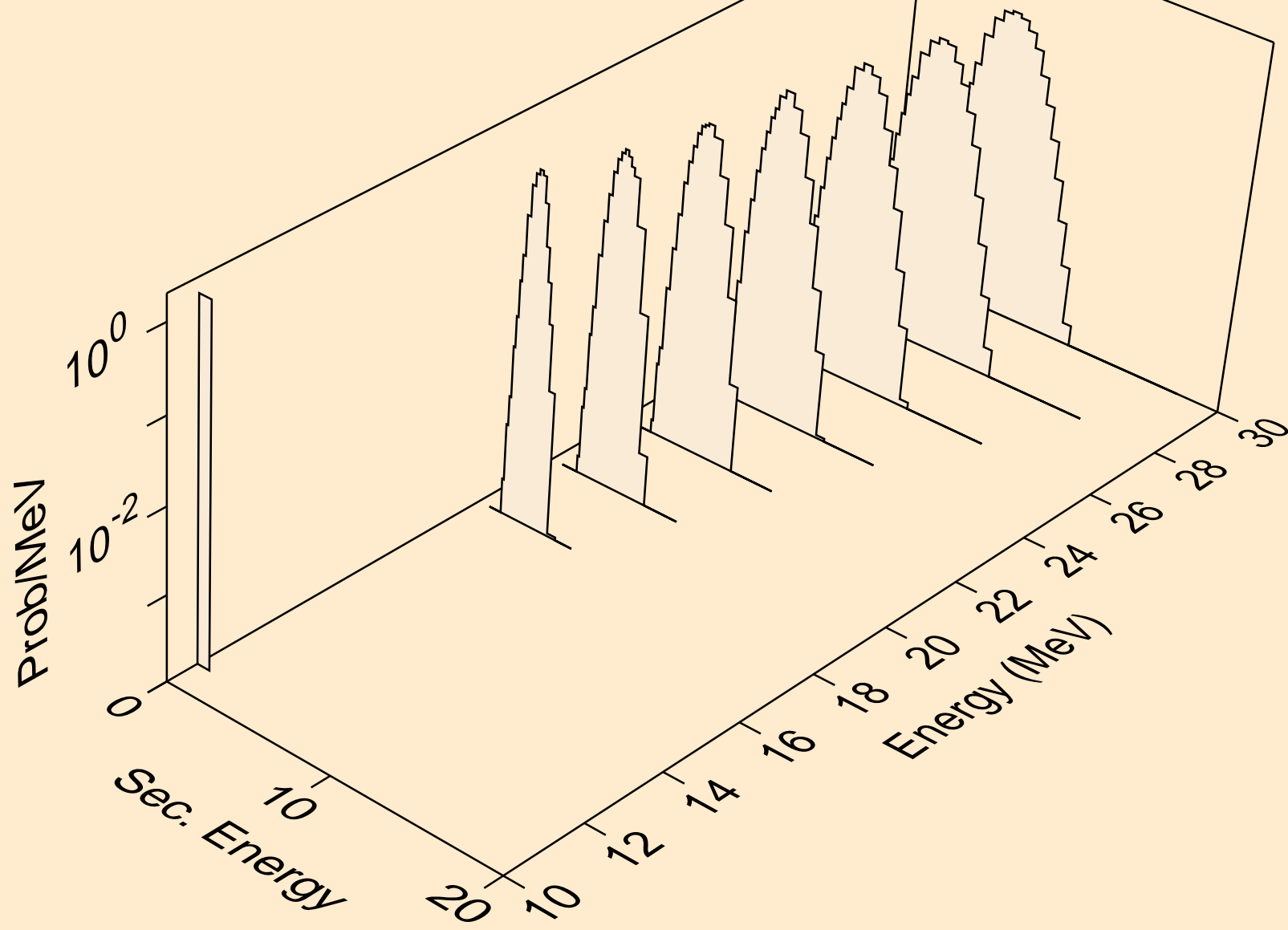
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protons from (n,p)



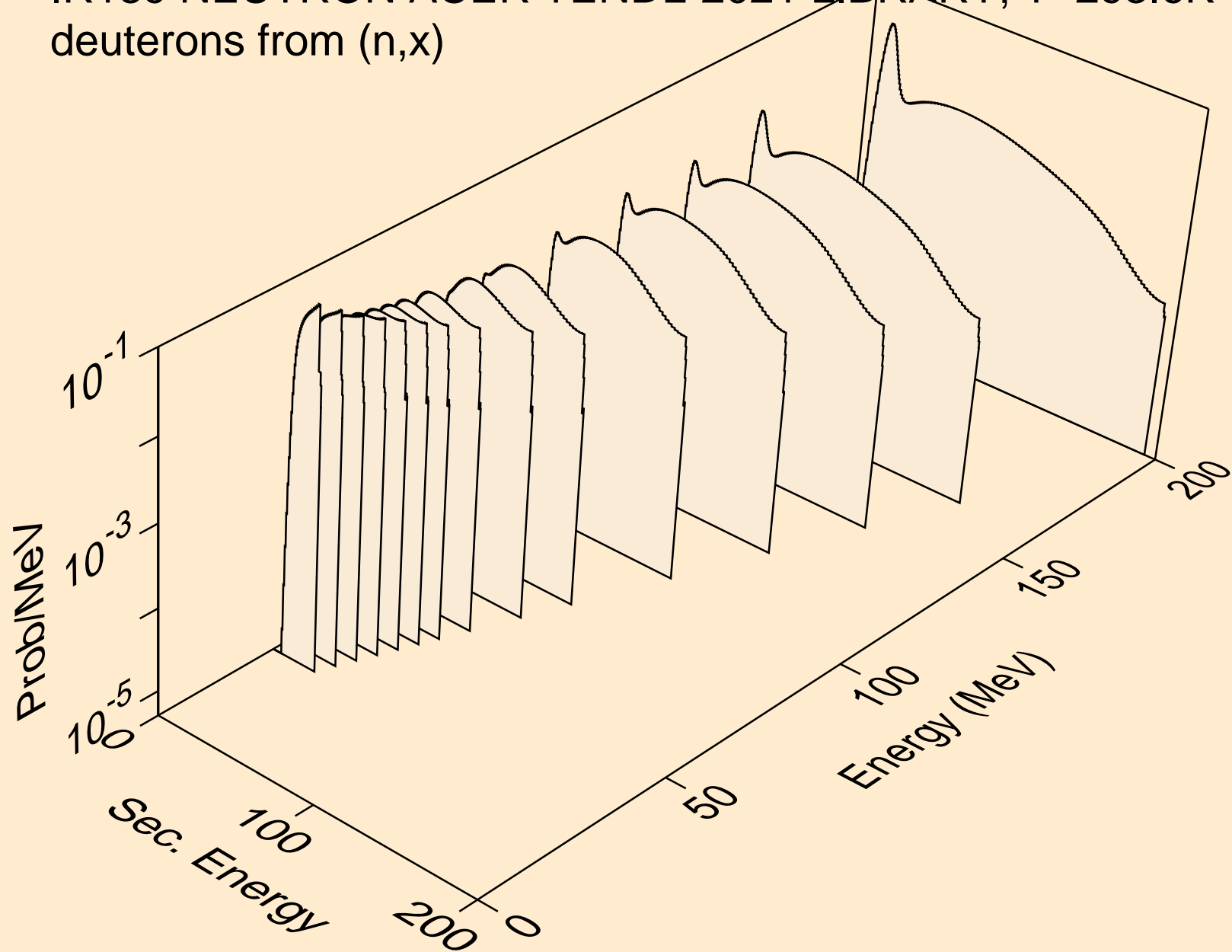
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protons from (n,pd)



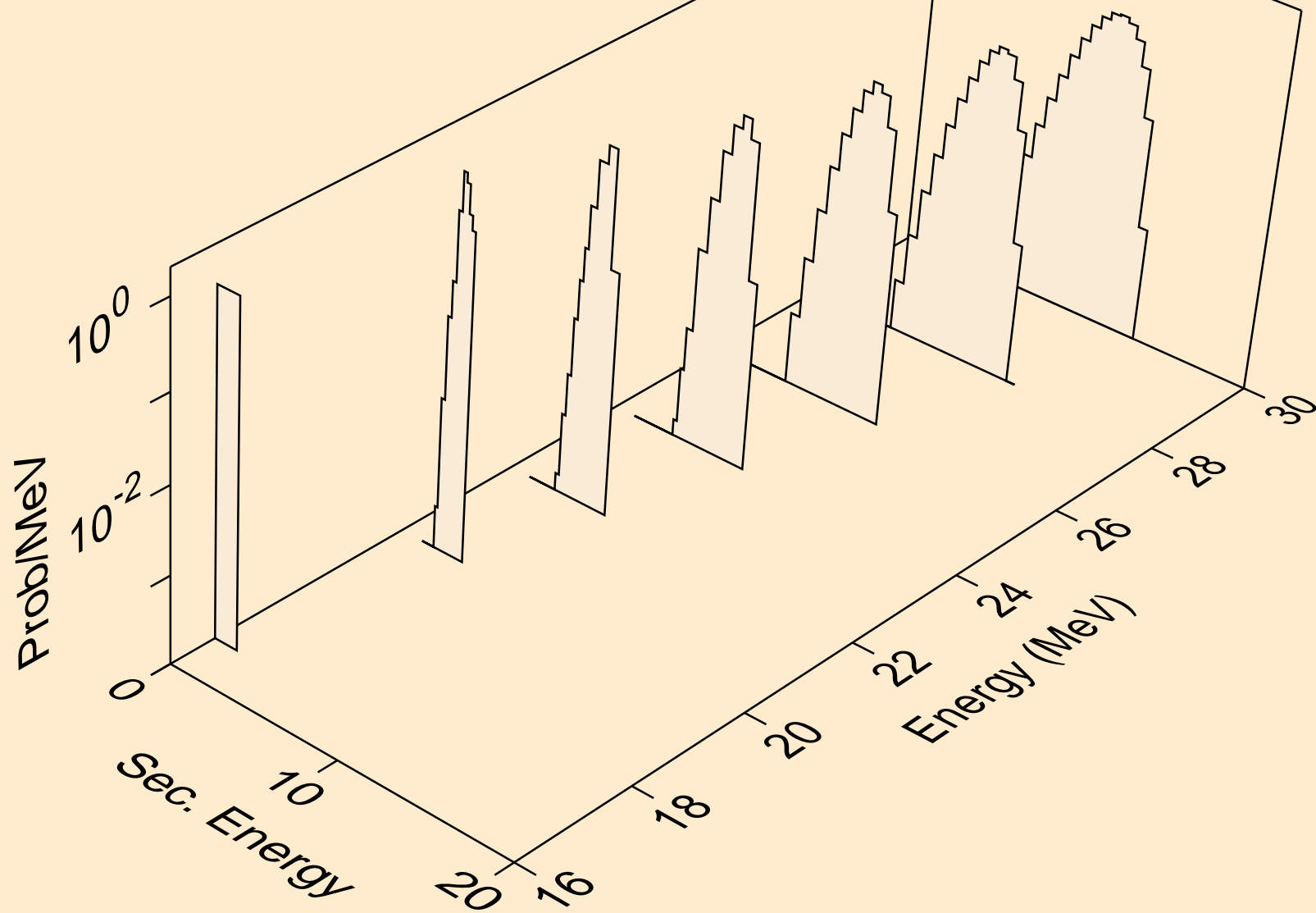
IR189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
protons from (n,pt)



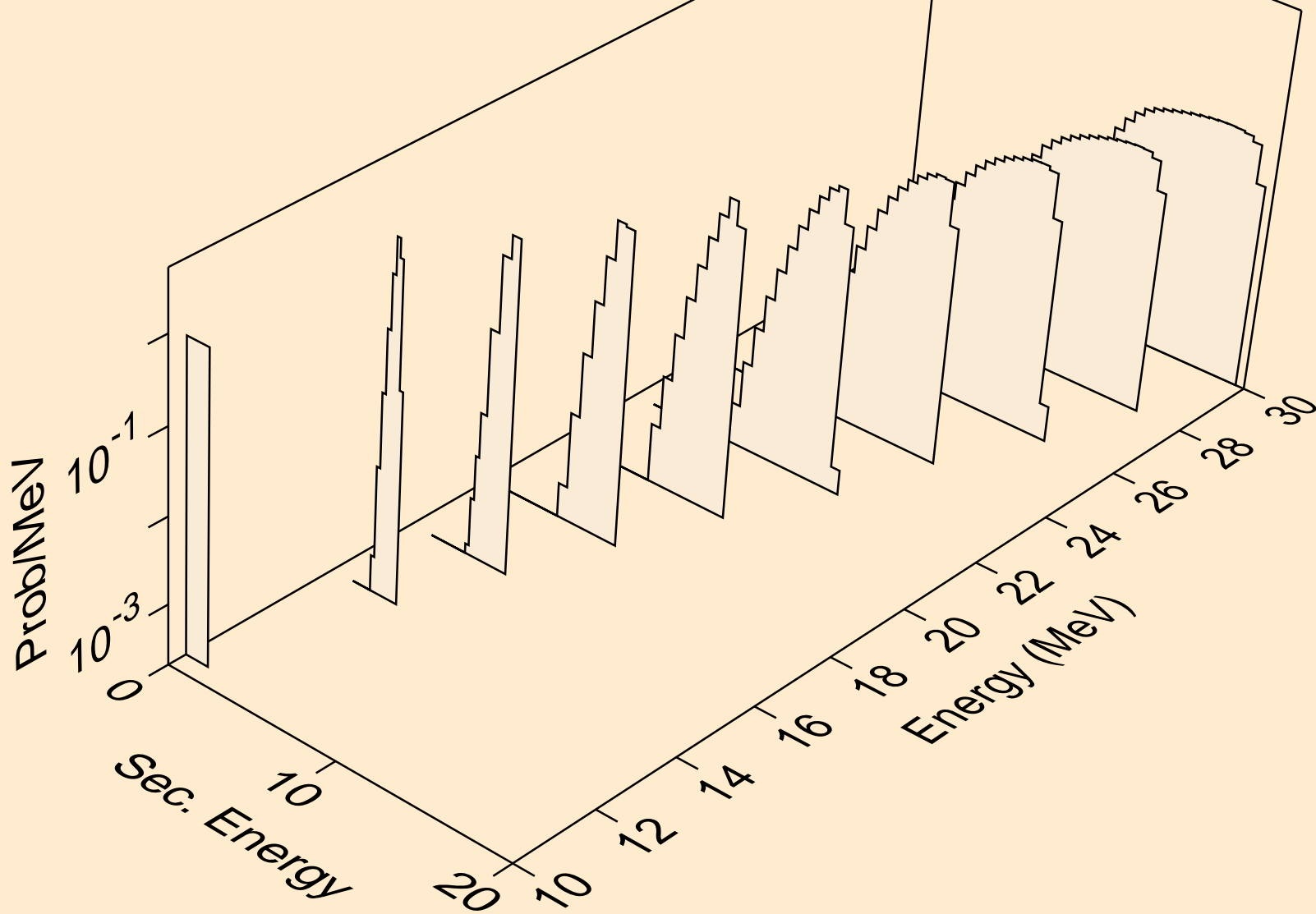
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deuterons from (n,x)



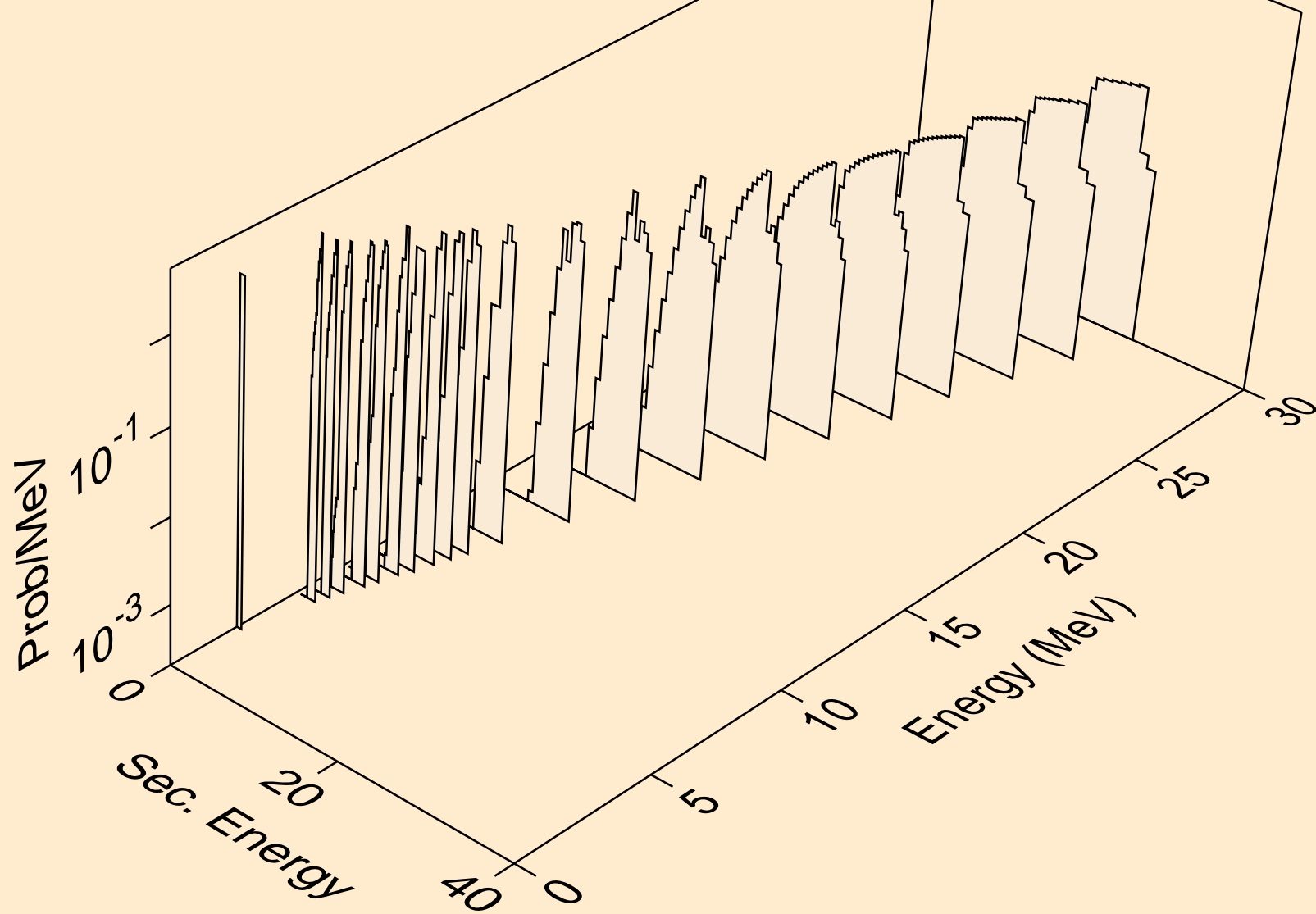
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deuterons from (n,2nd)



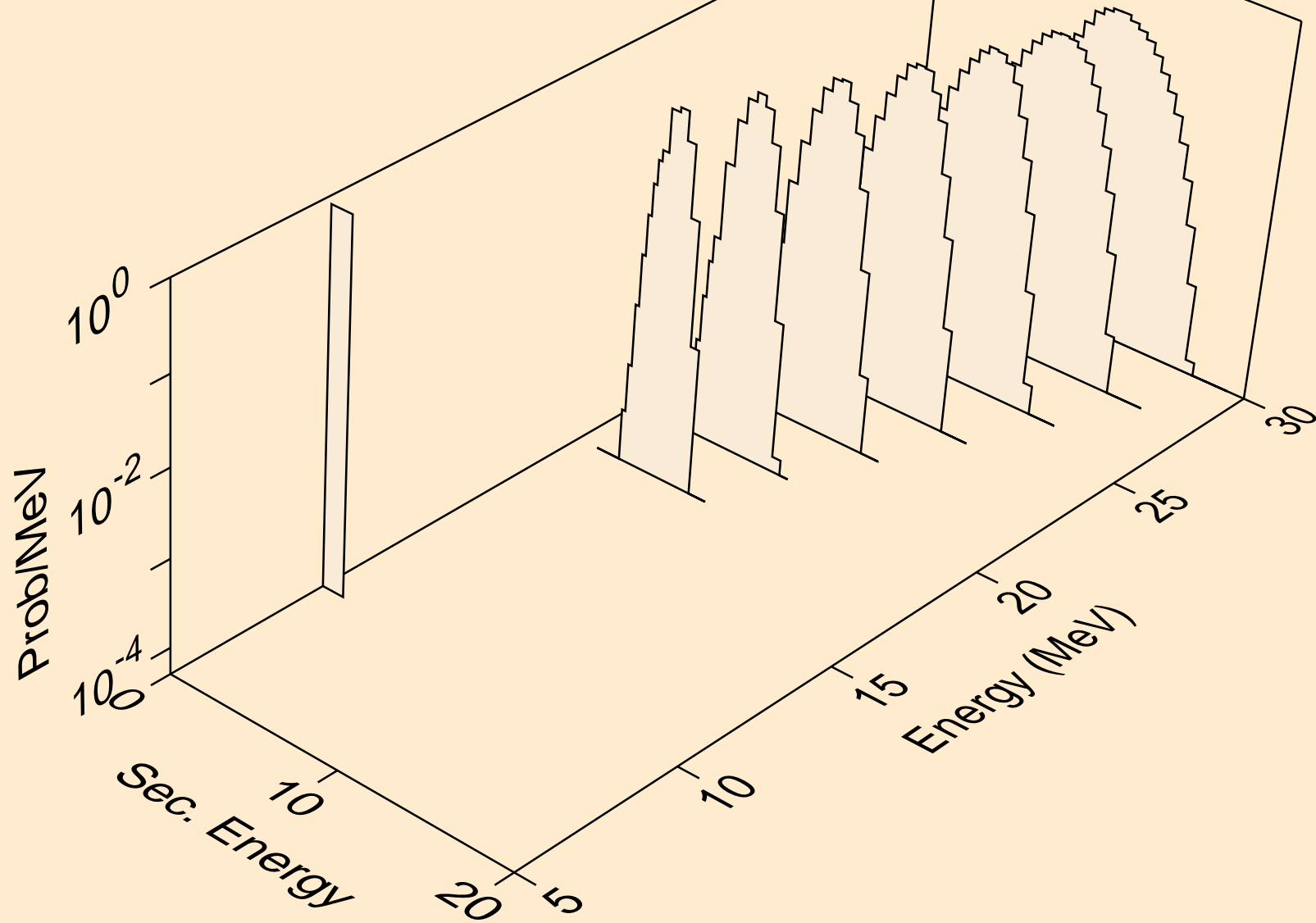
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deuterons from (n,n\*)d



IR189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
deuterons from (n,d)

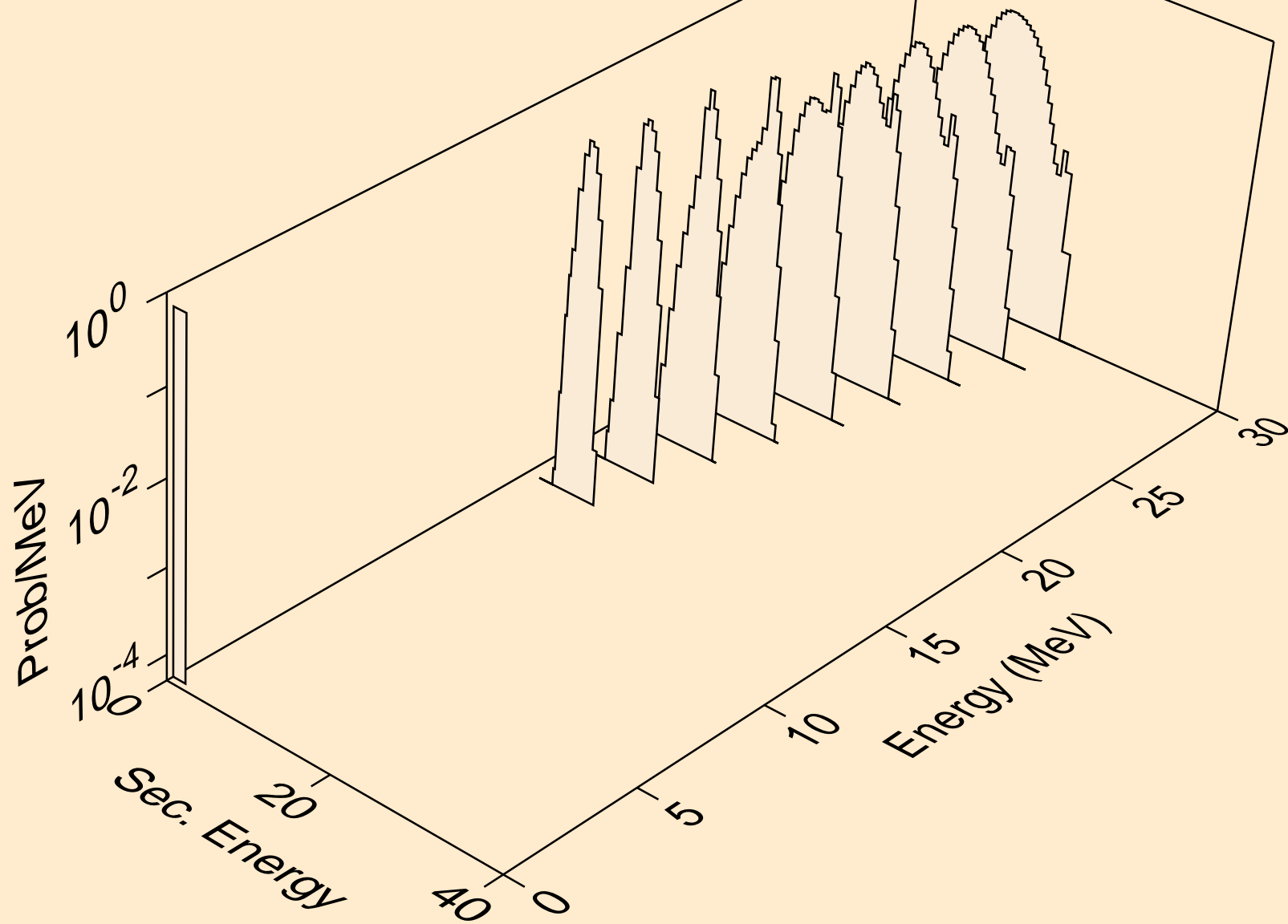


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deuterons from (n,pd)

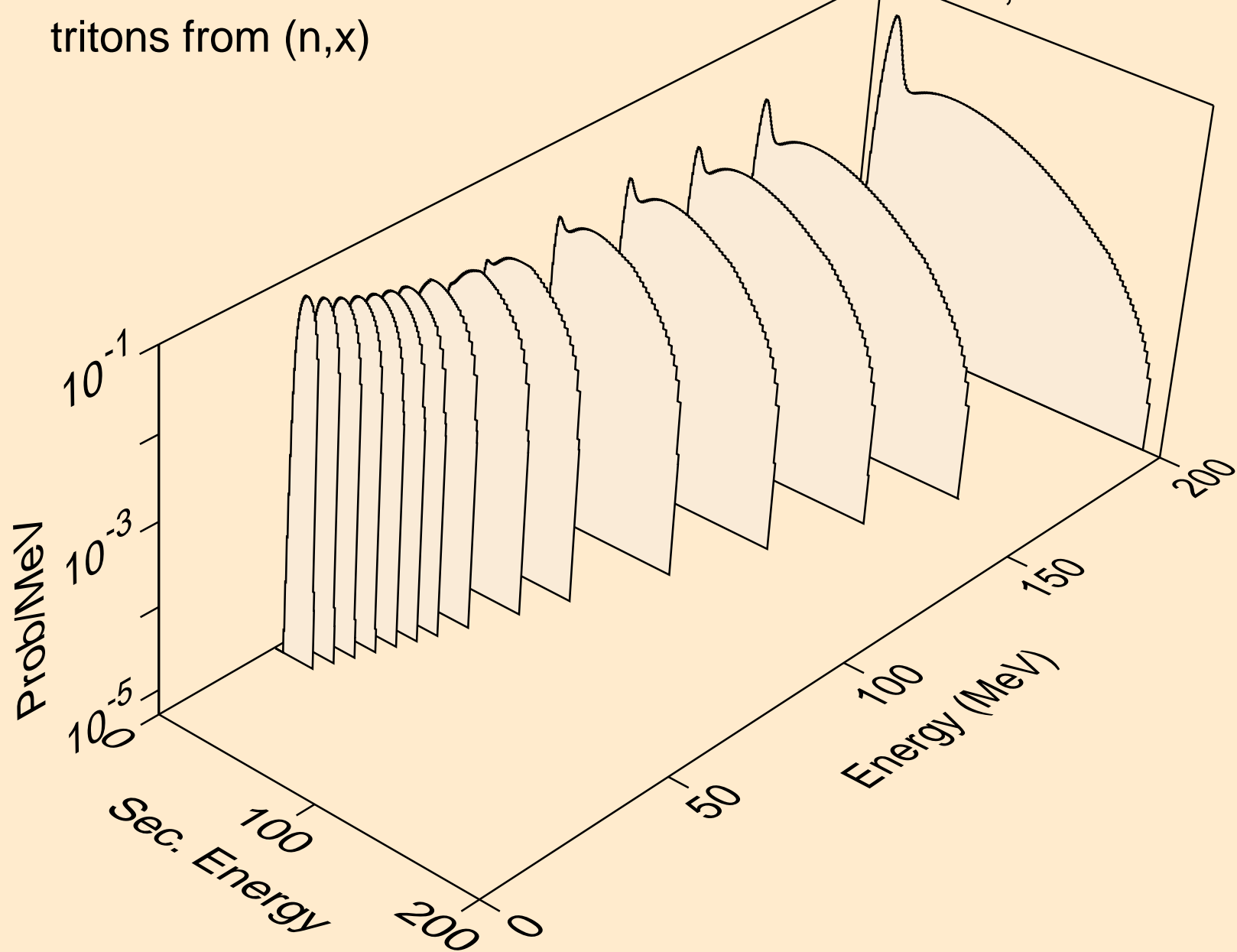




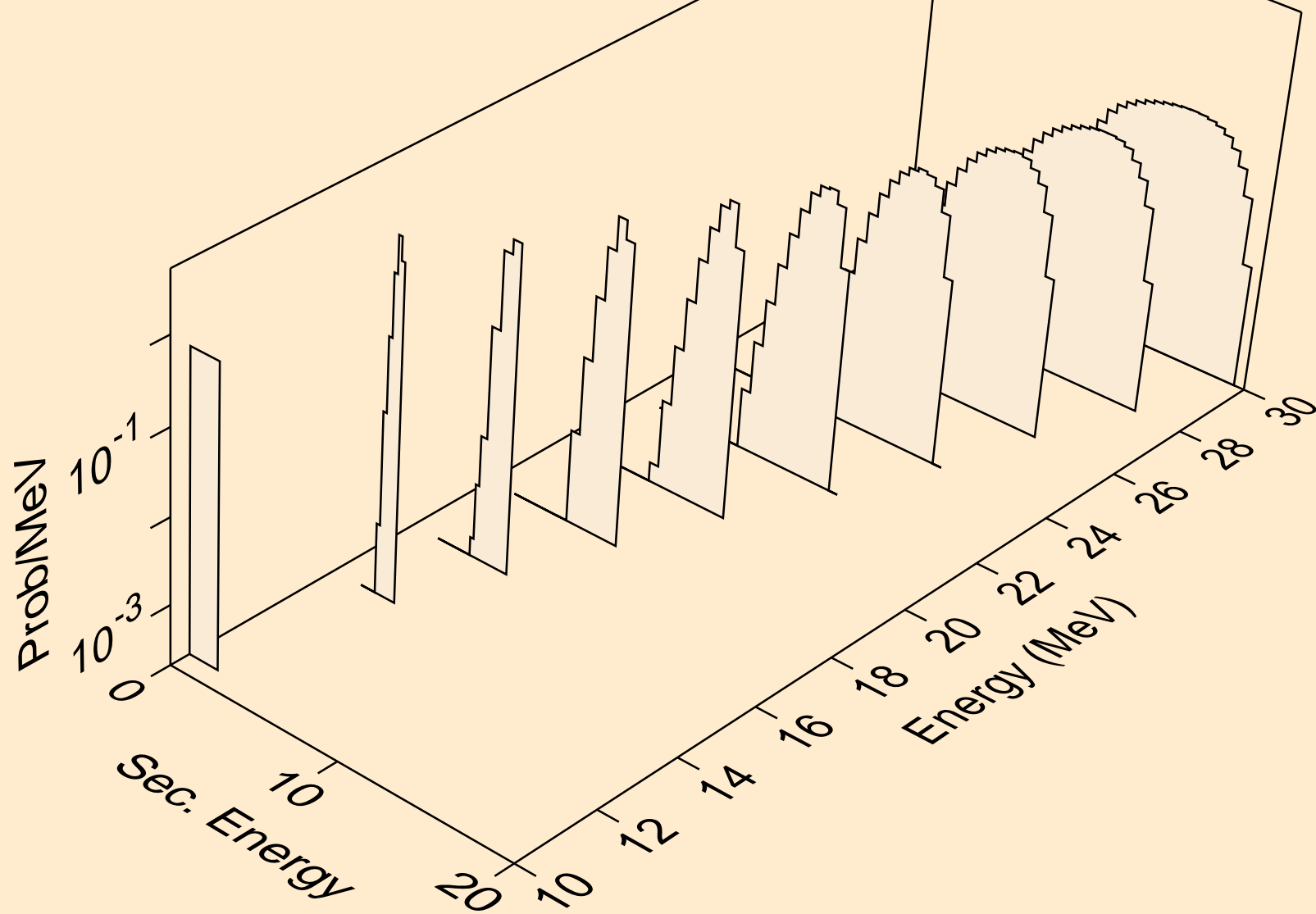
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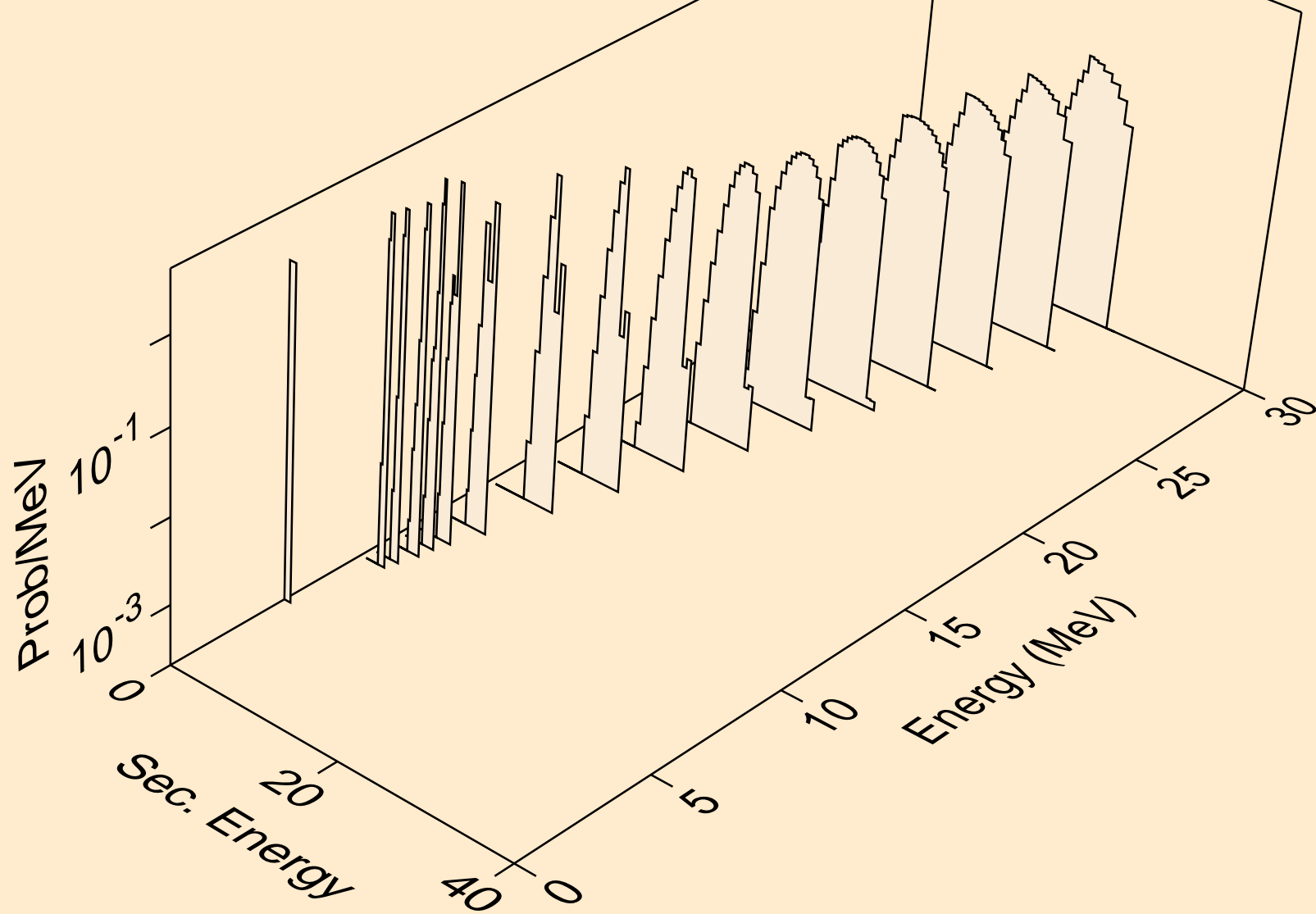
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tritons from (n,x)



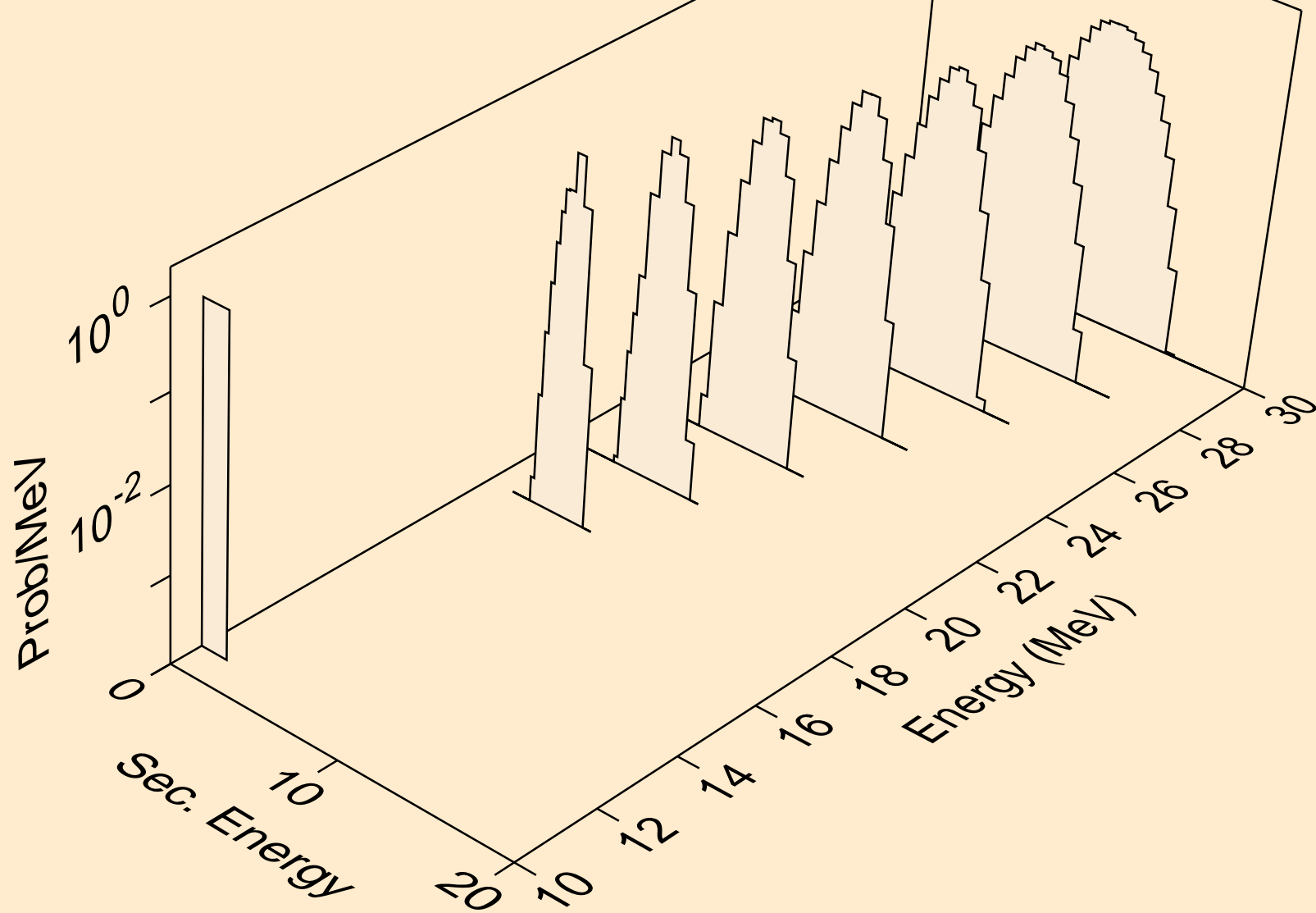
IR189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
tritons from (n,n\*)t



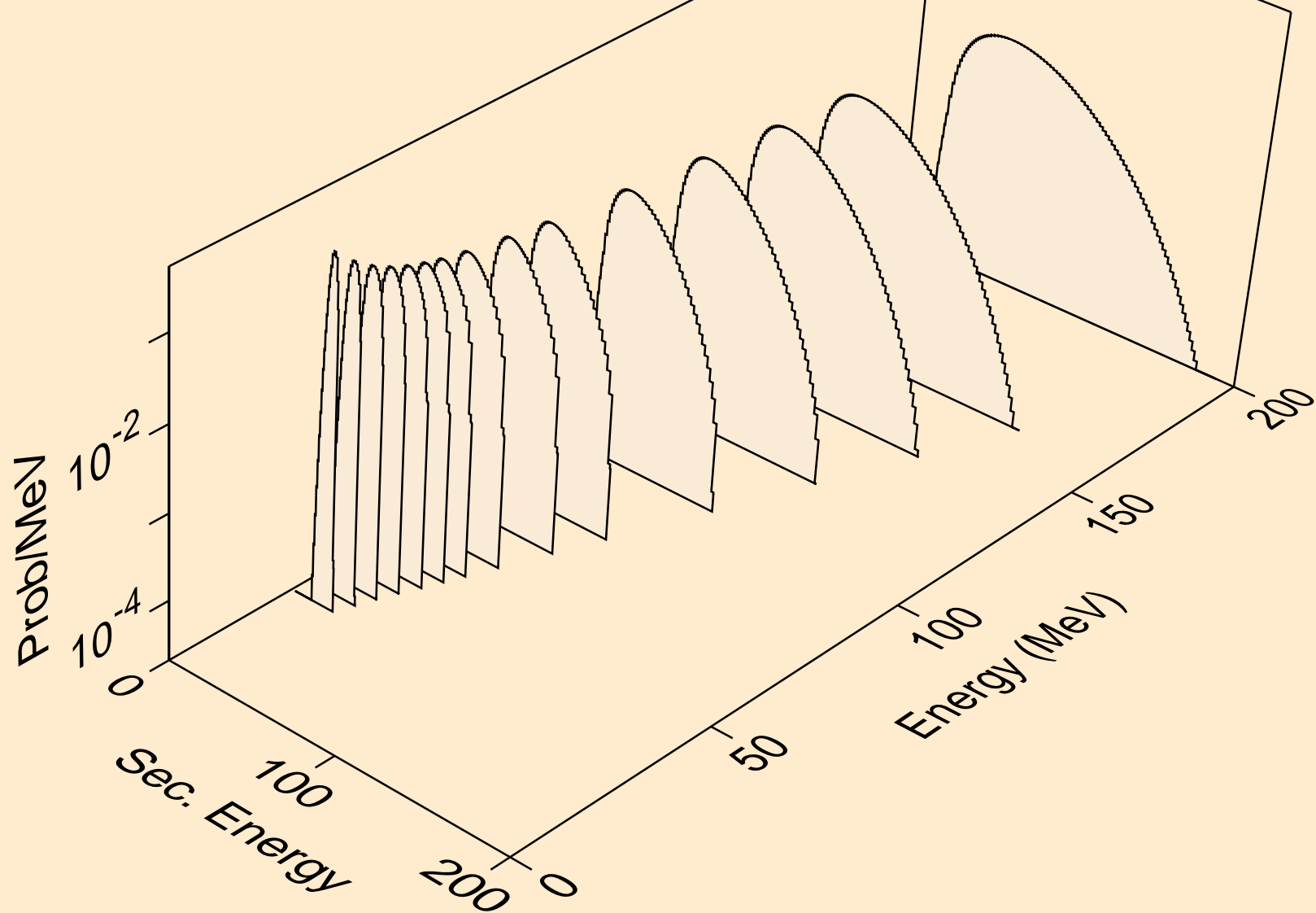
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tritons from (n,t)



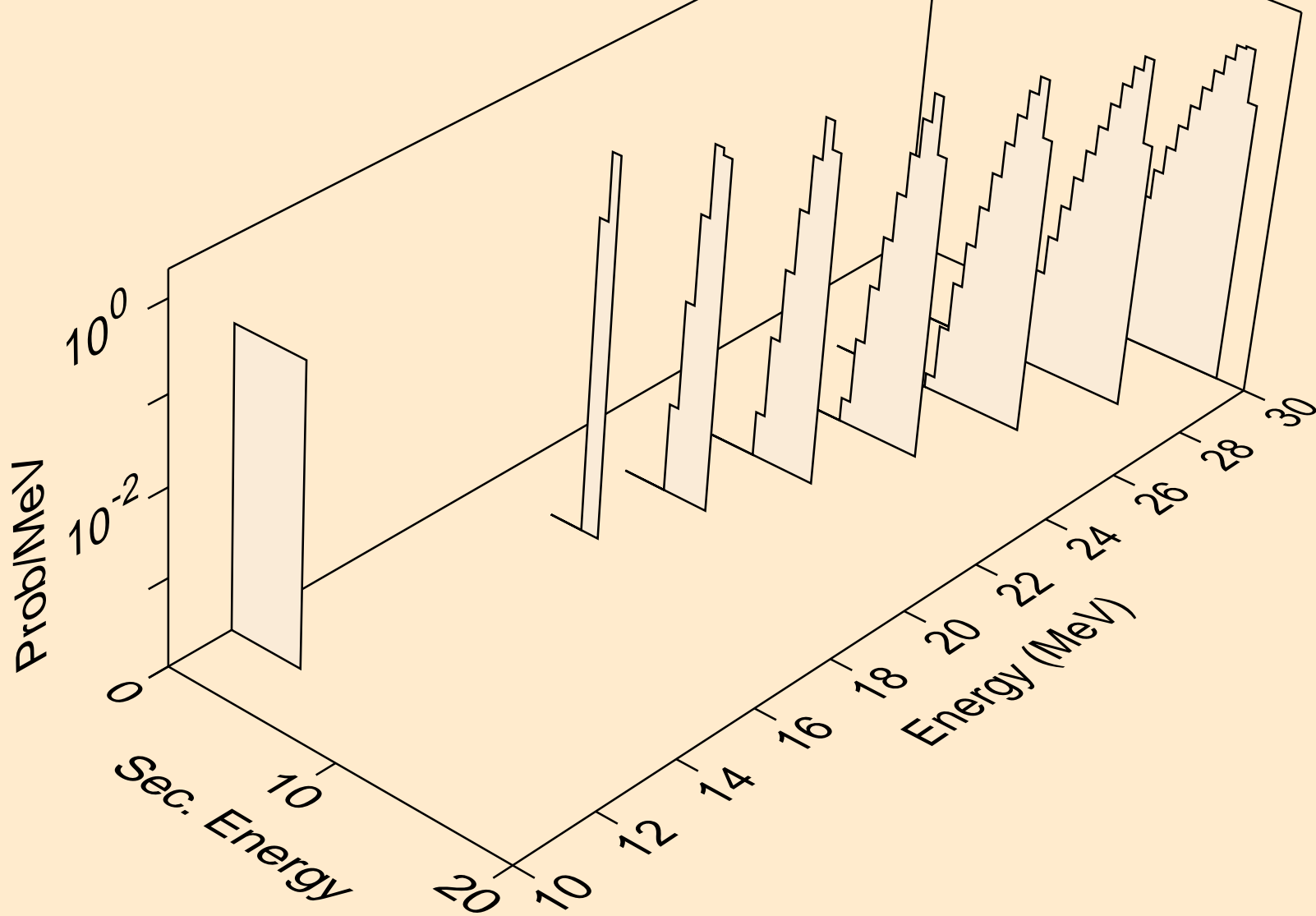
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tritons from (n,pt)



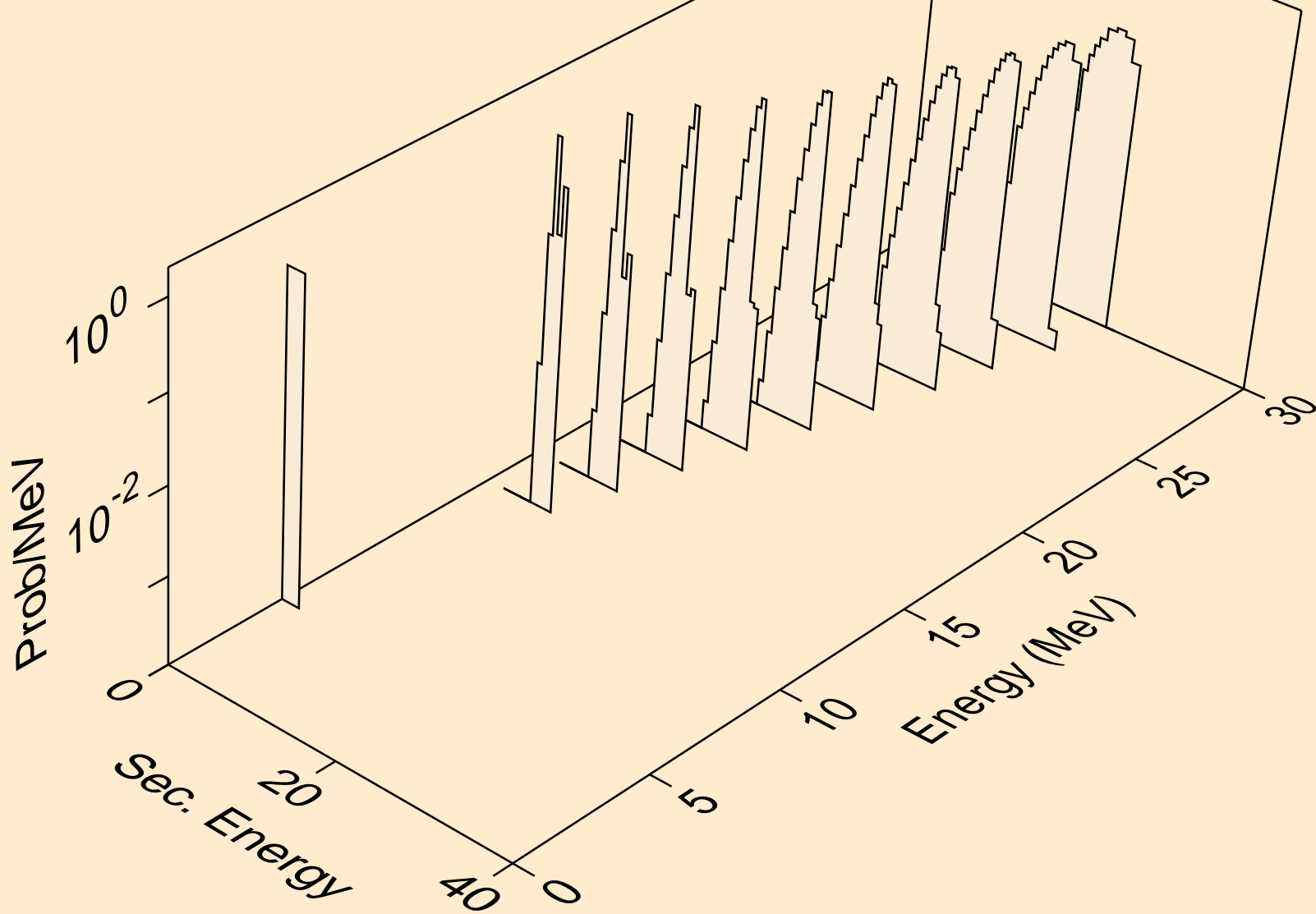
IR189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
he3s from (n,x)



IR189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
he3s from (n,n\*)he3

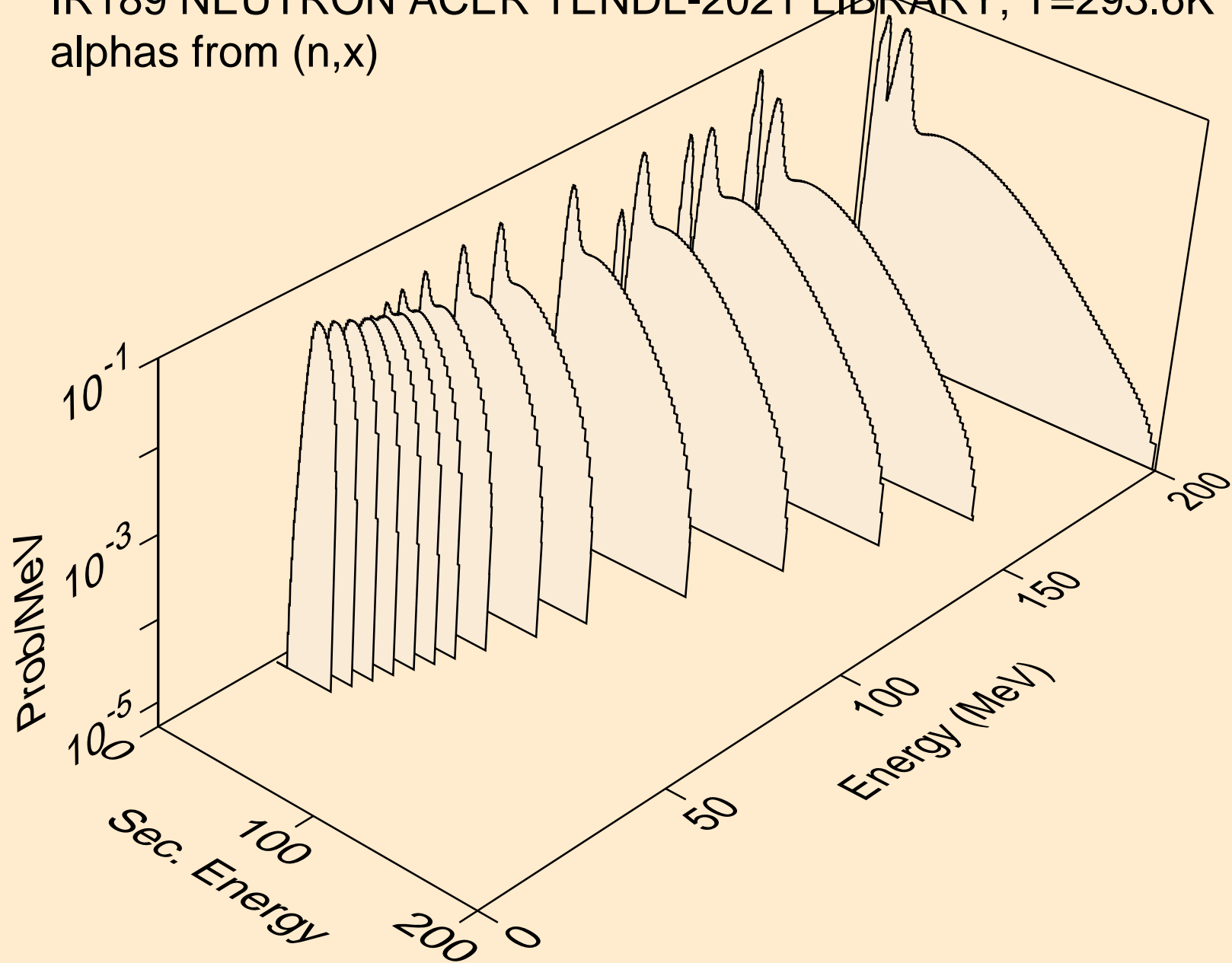


IR189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
he3s from (n,he3)

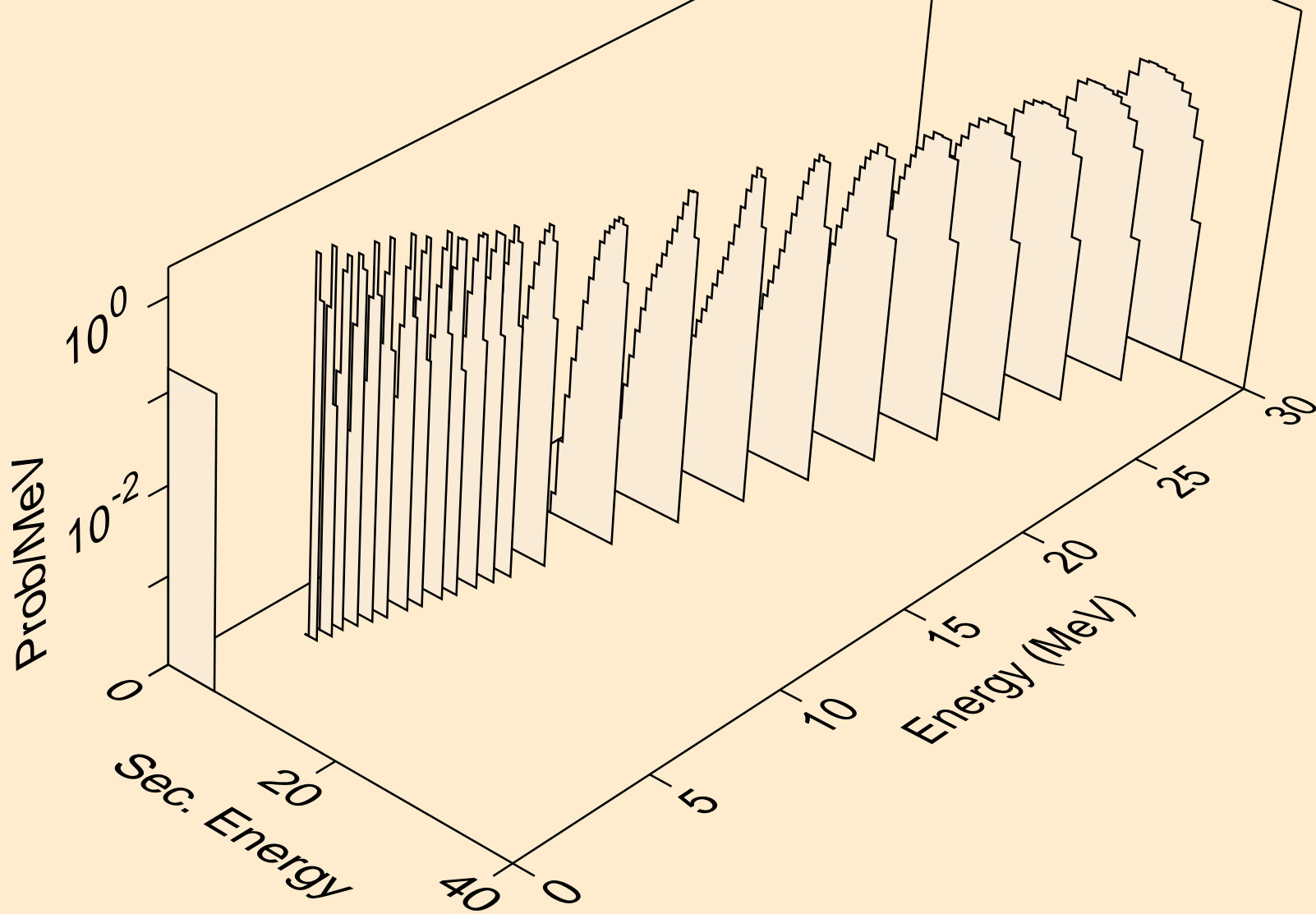




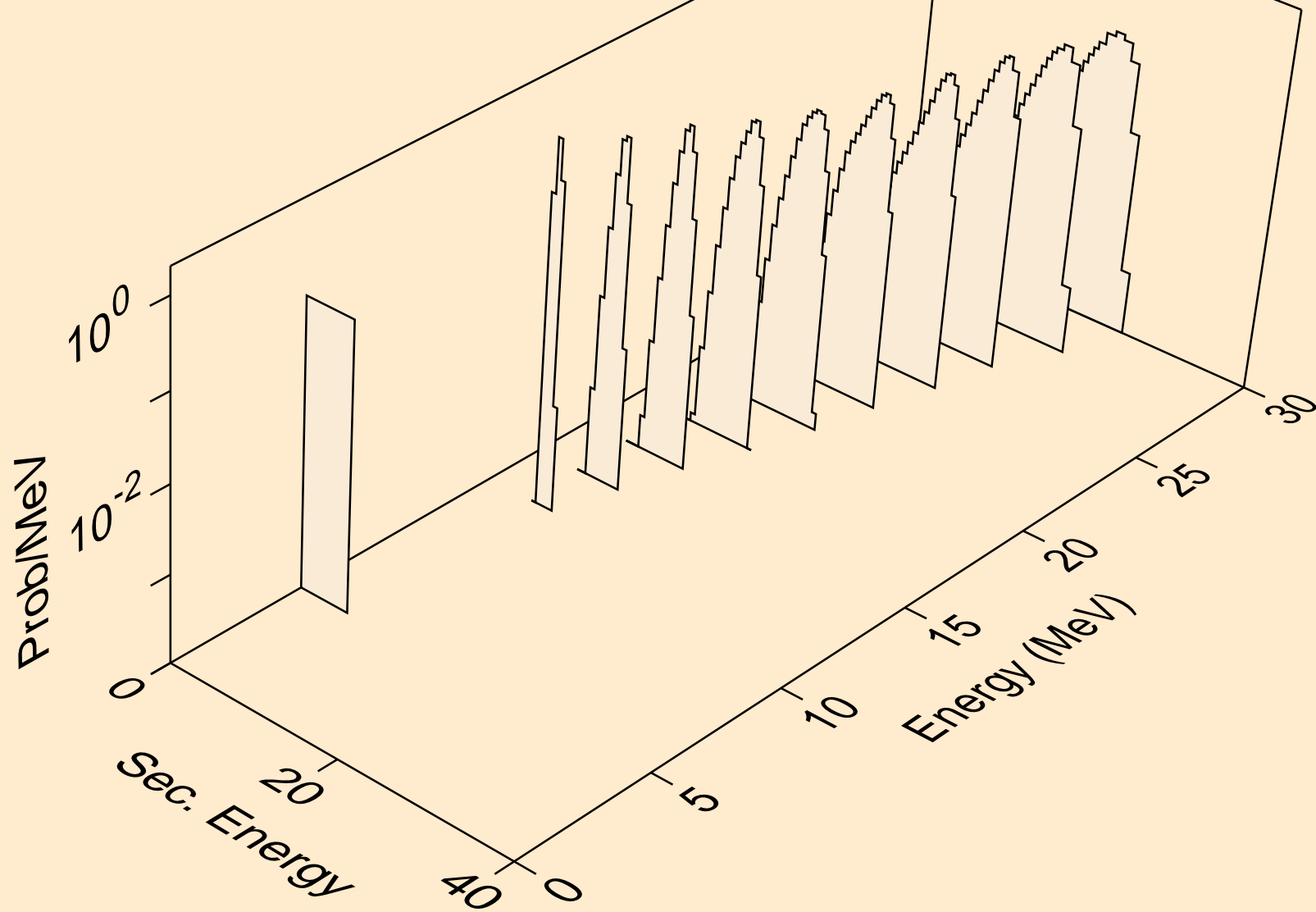
IR189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
alphas from (n,x)



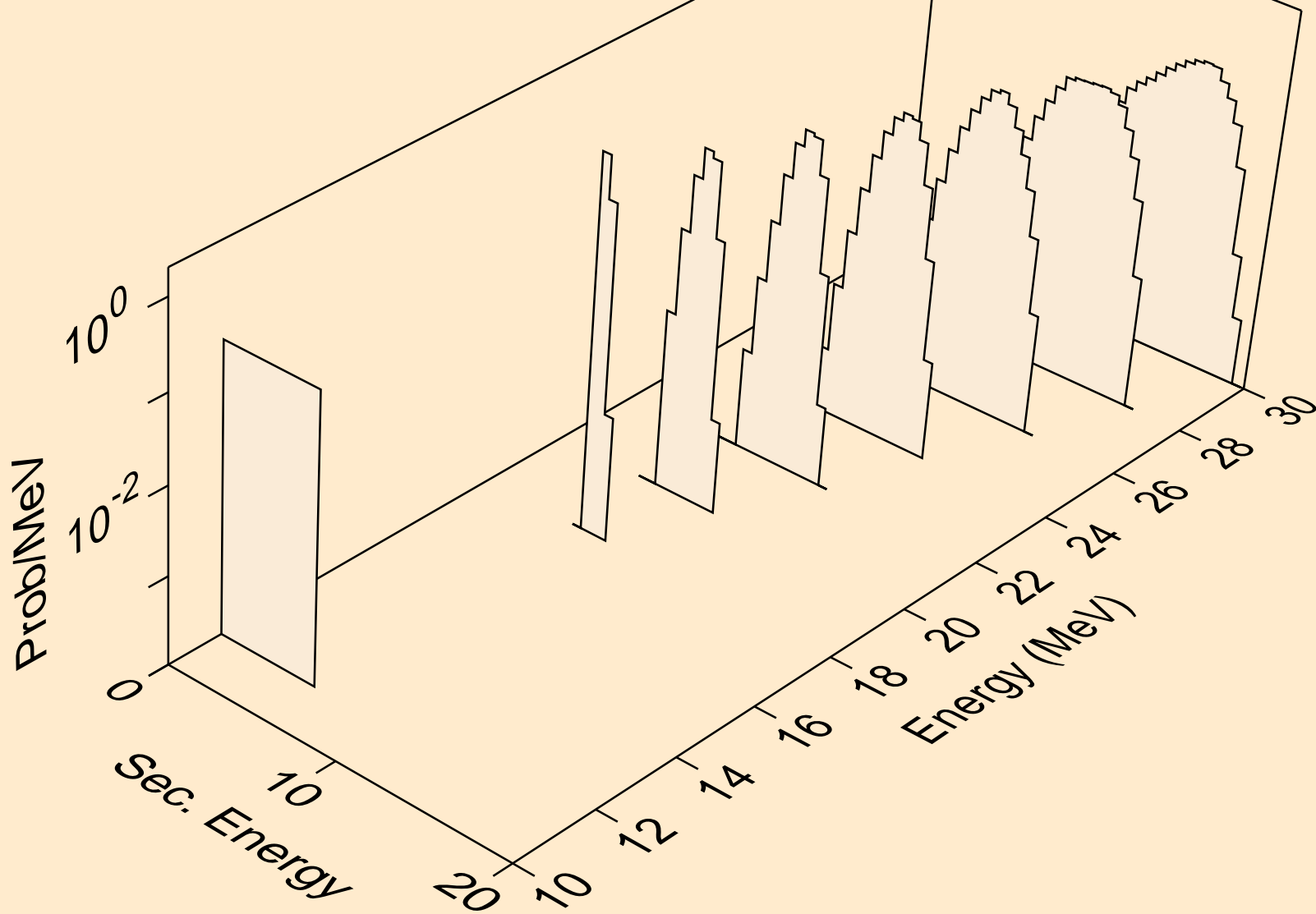
IR189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
alphas from (n,n\*)a



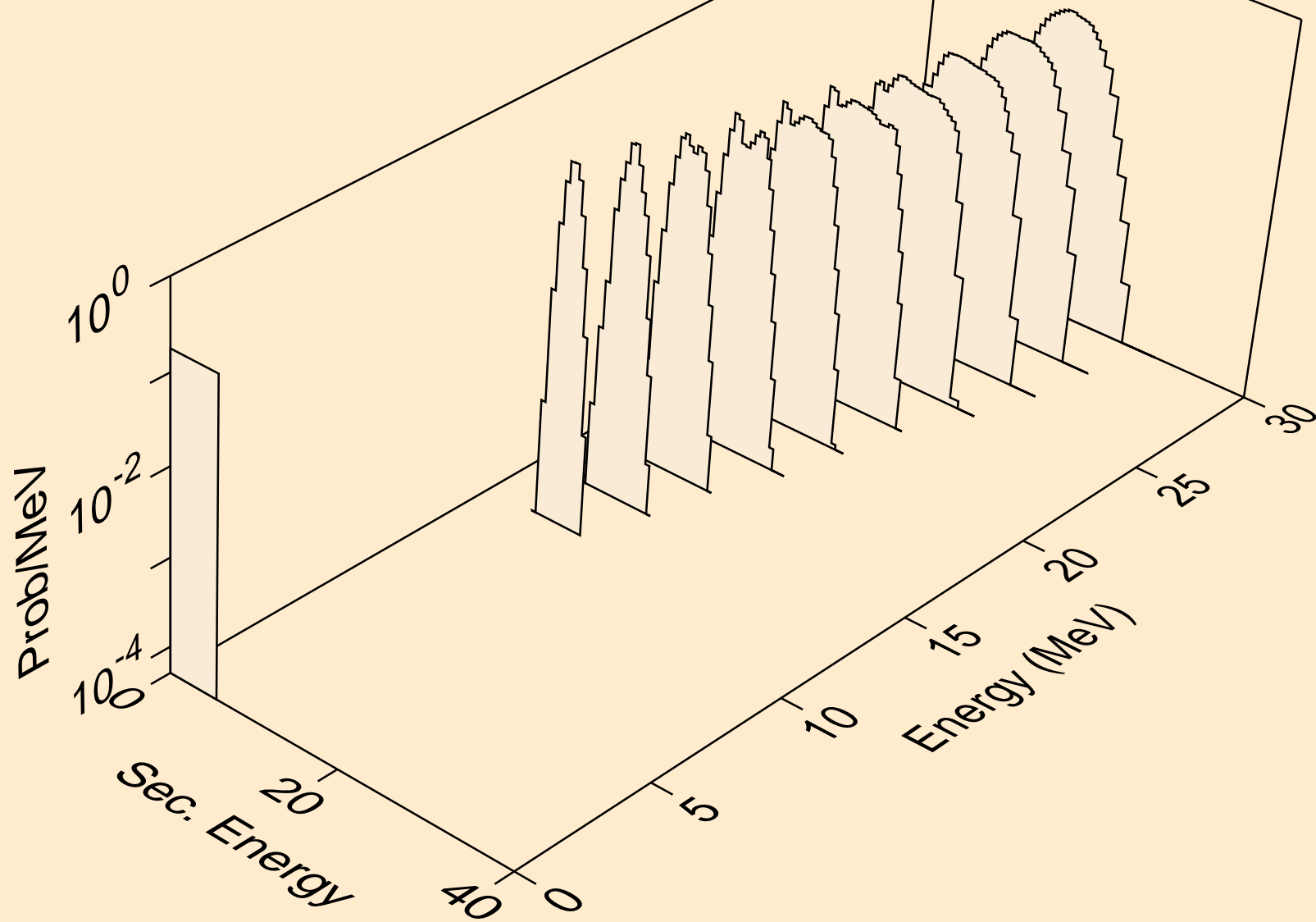
IR189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
alphas from (n,2n)a



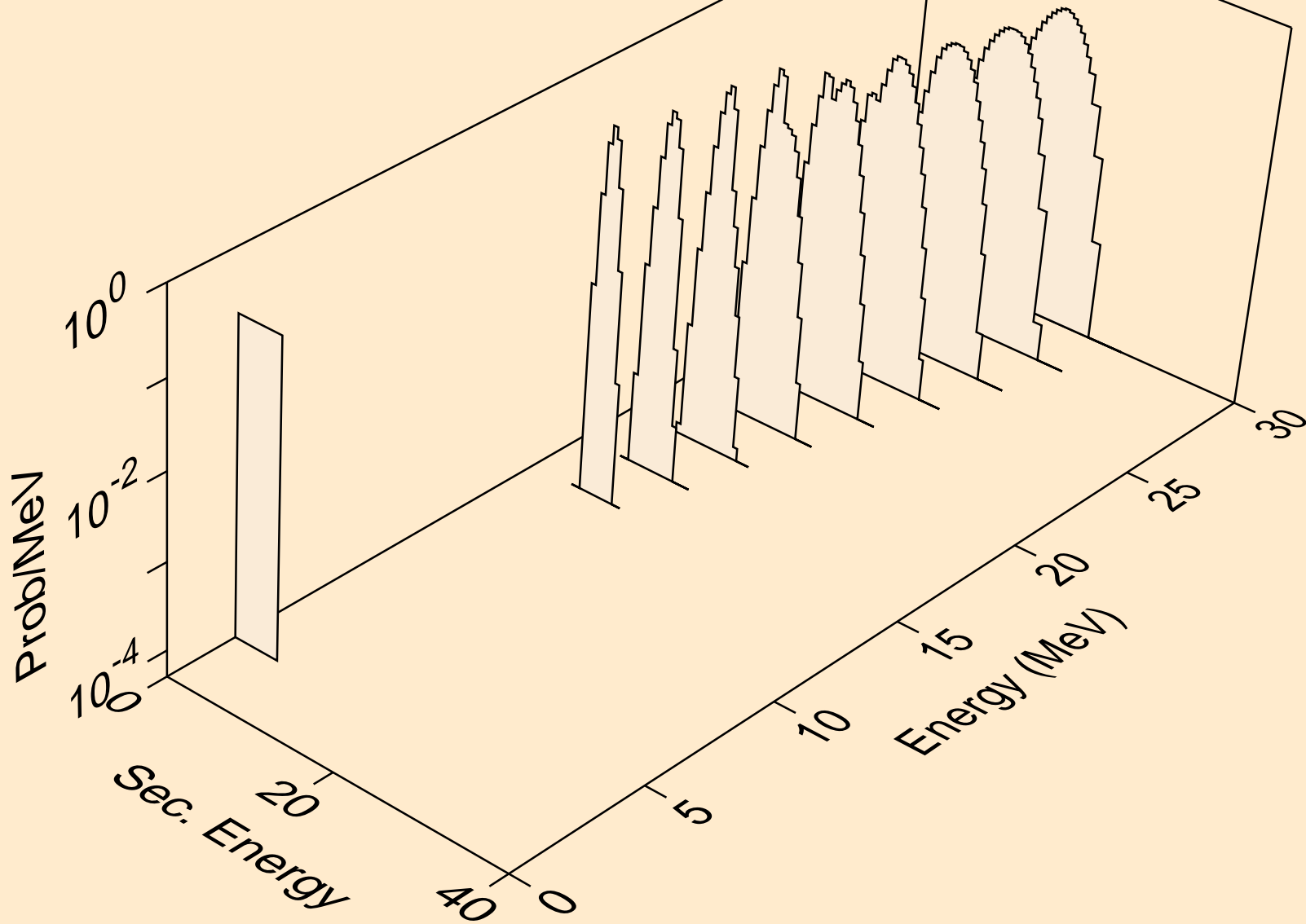
IR189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
alphas from (n,3n)a



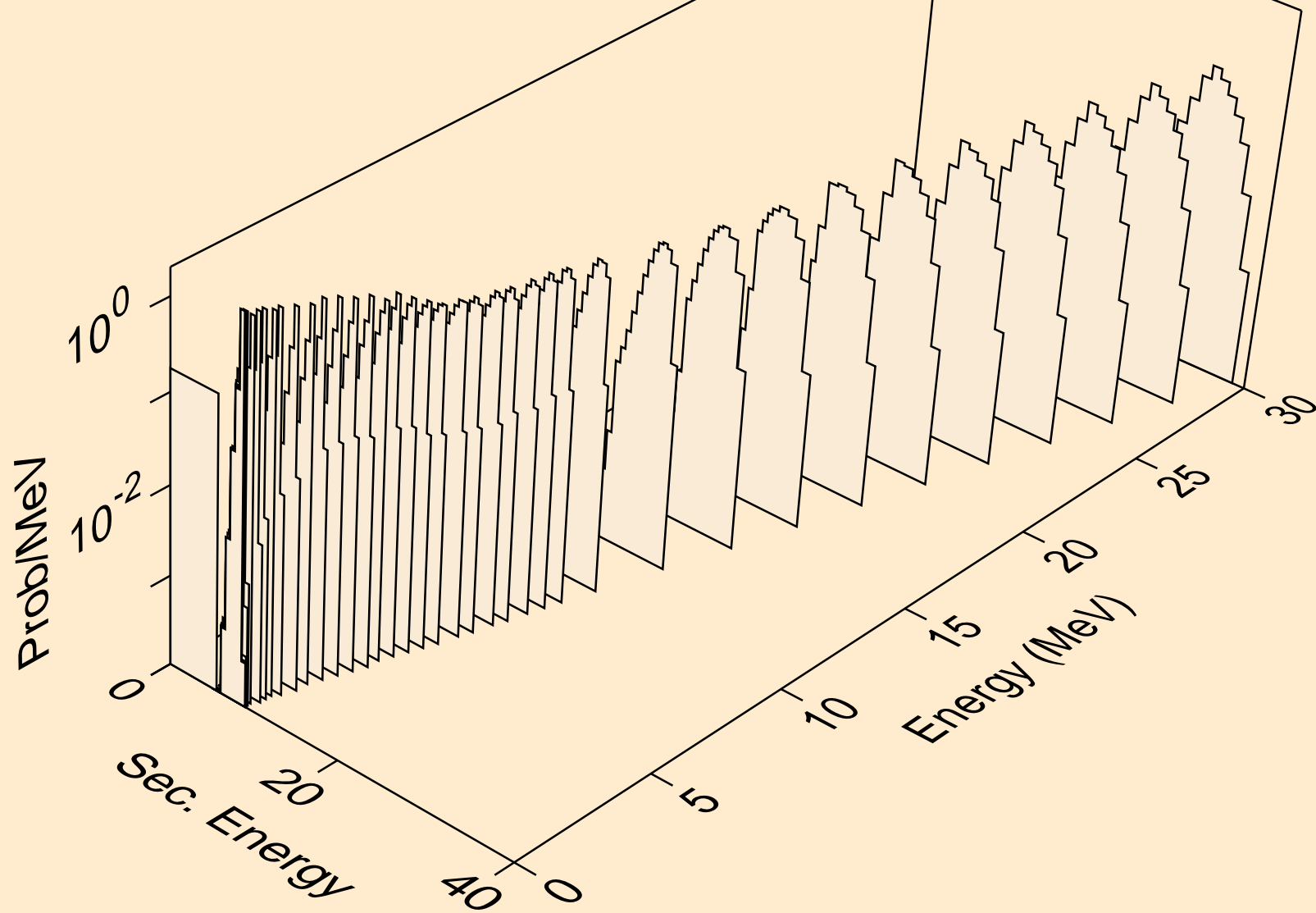
IR189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
alphas from (n,n\*)2a



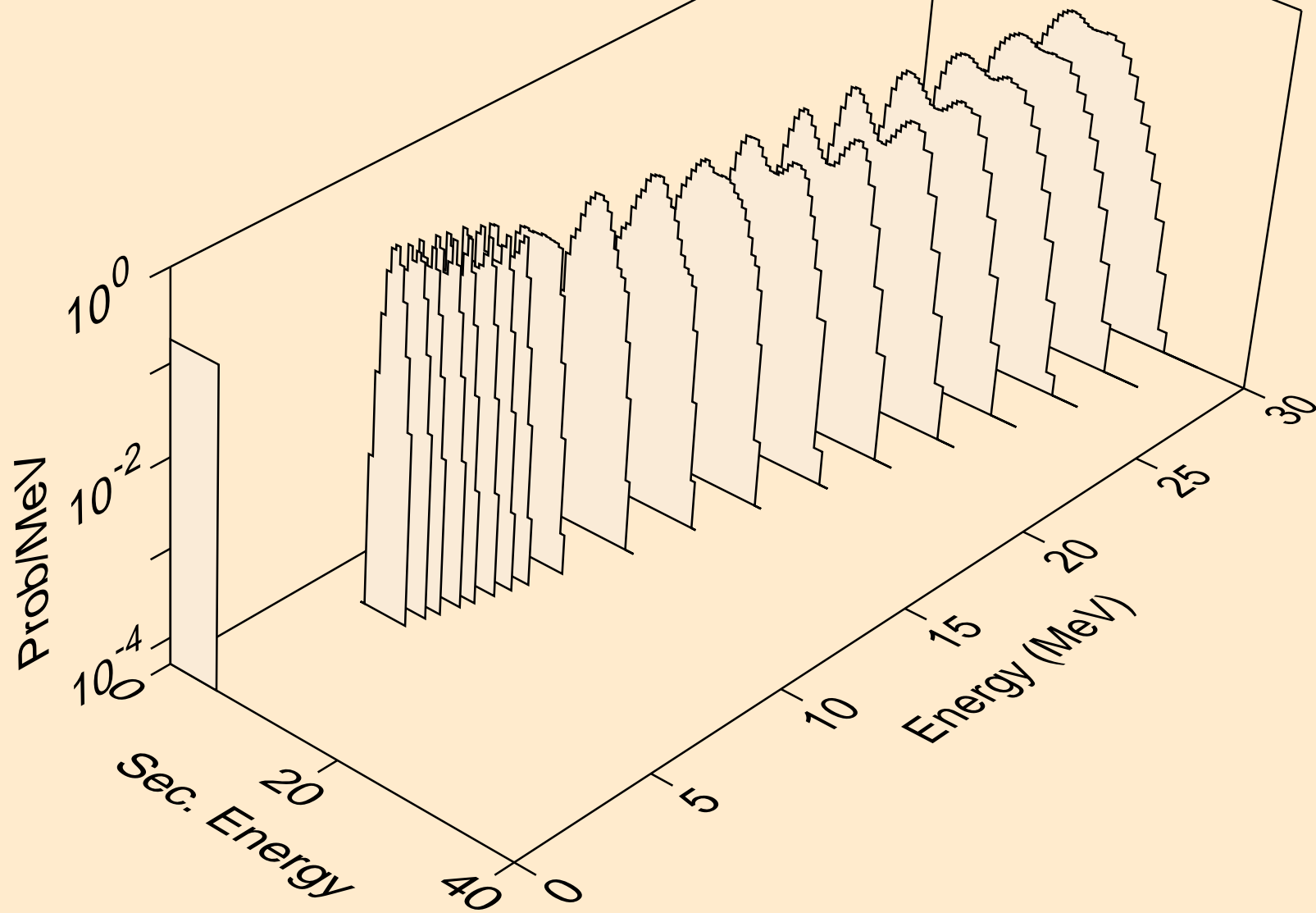
IR189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
alphas from (n,npa)



IR189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
alphas from (n,a)

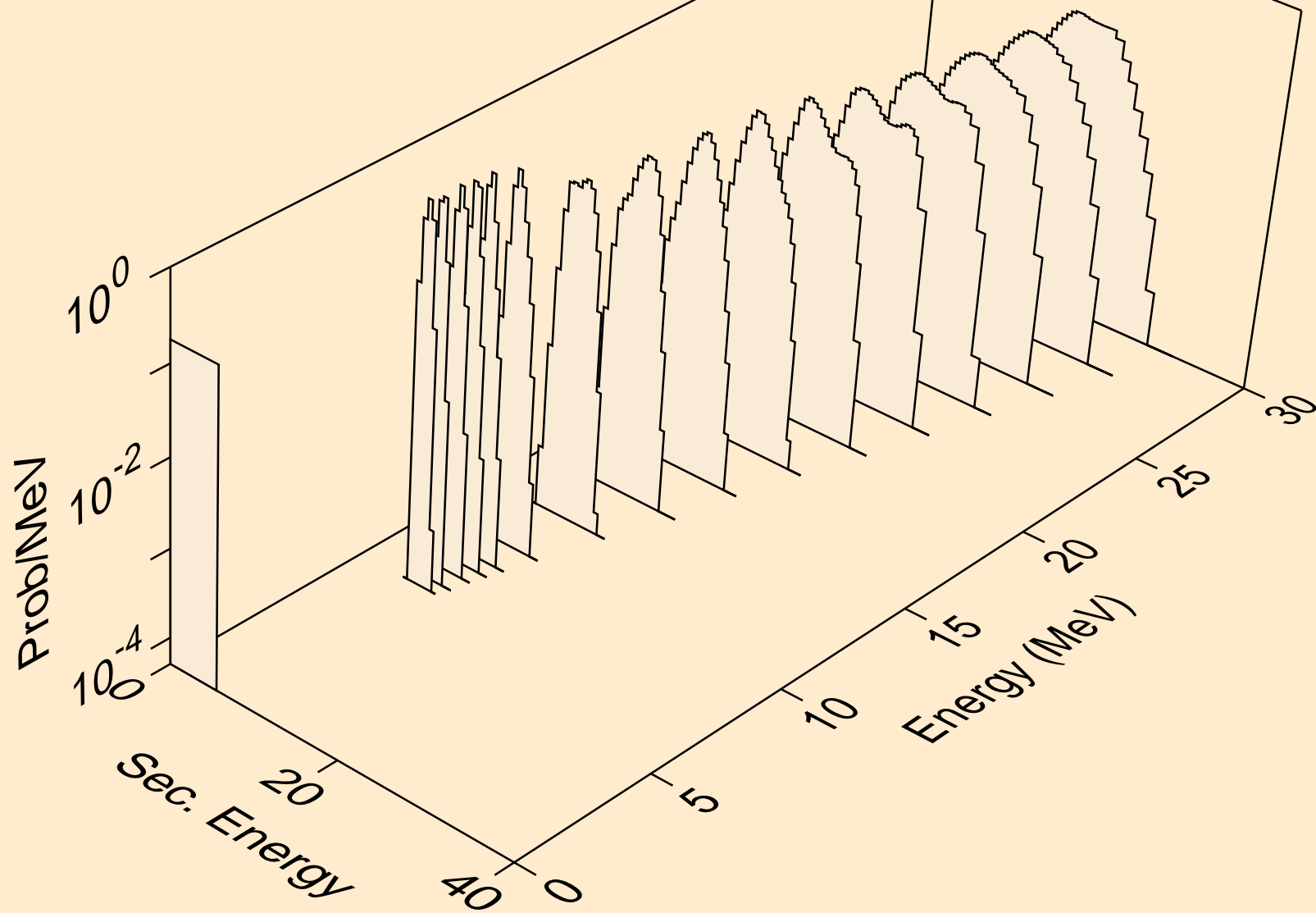


IR189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
alphas from (n,2a)





IR189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
alphas from (n,pa)



IR189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
alphas from (n,da)

