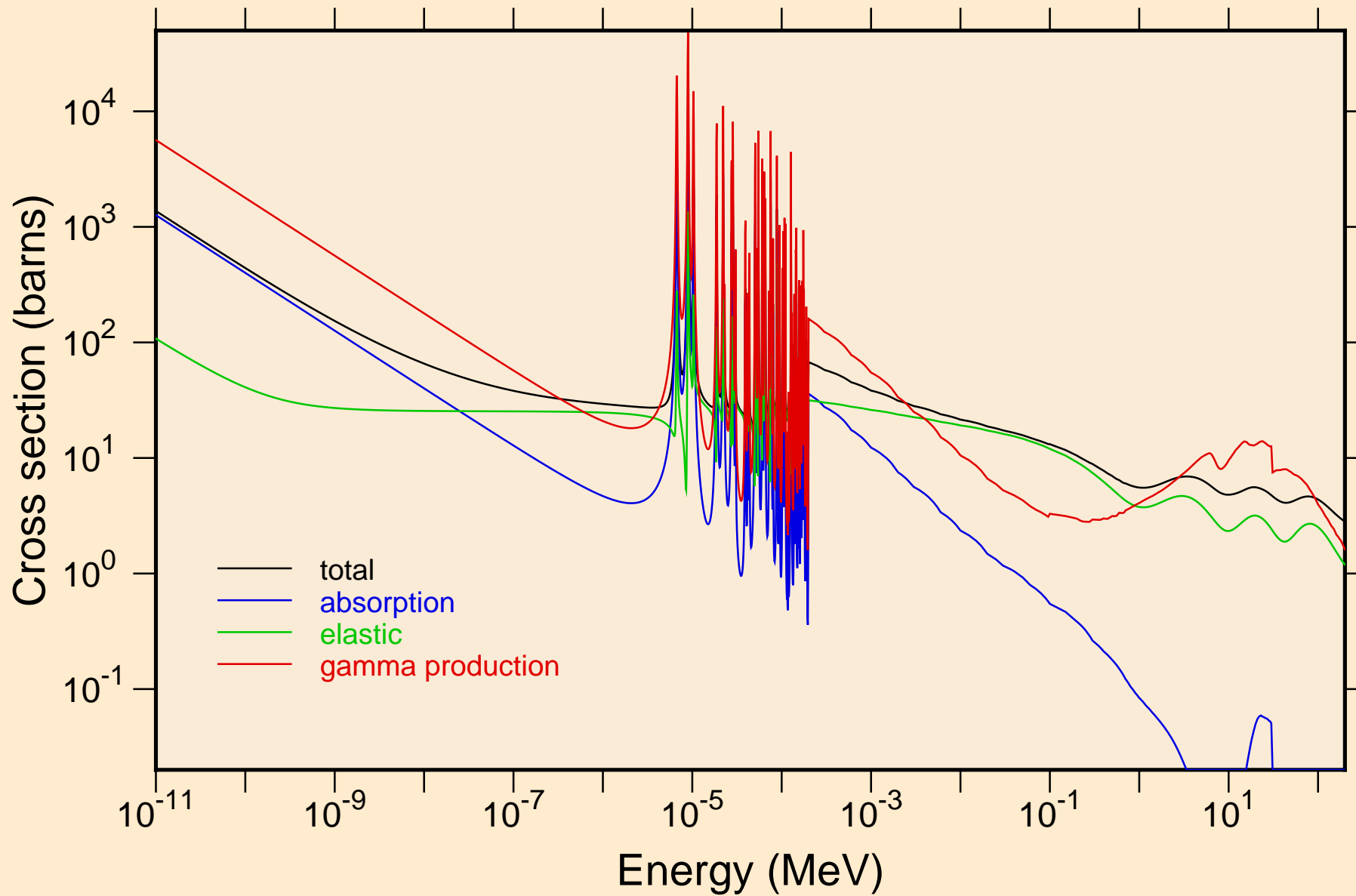
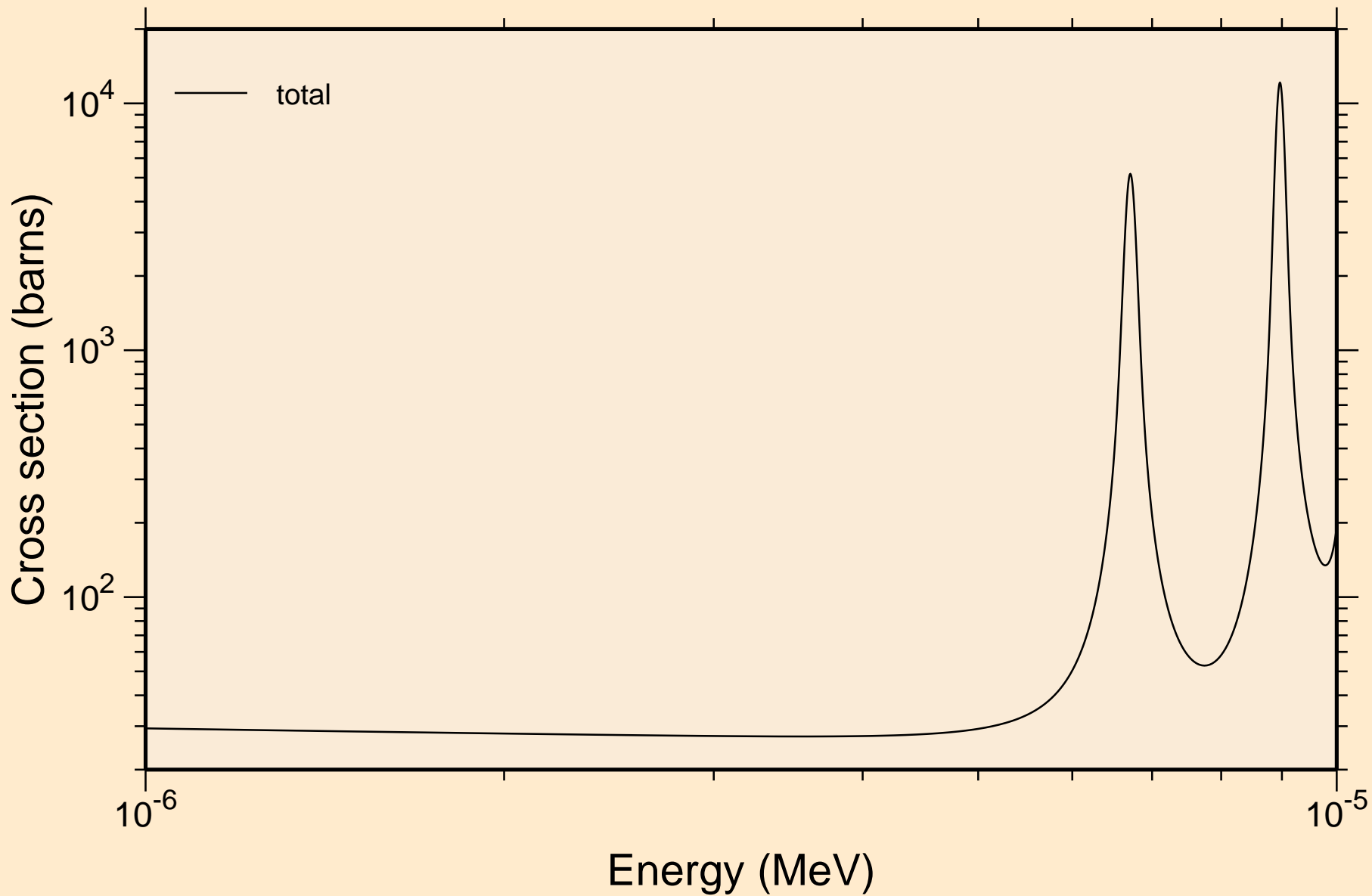


# OS189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K

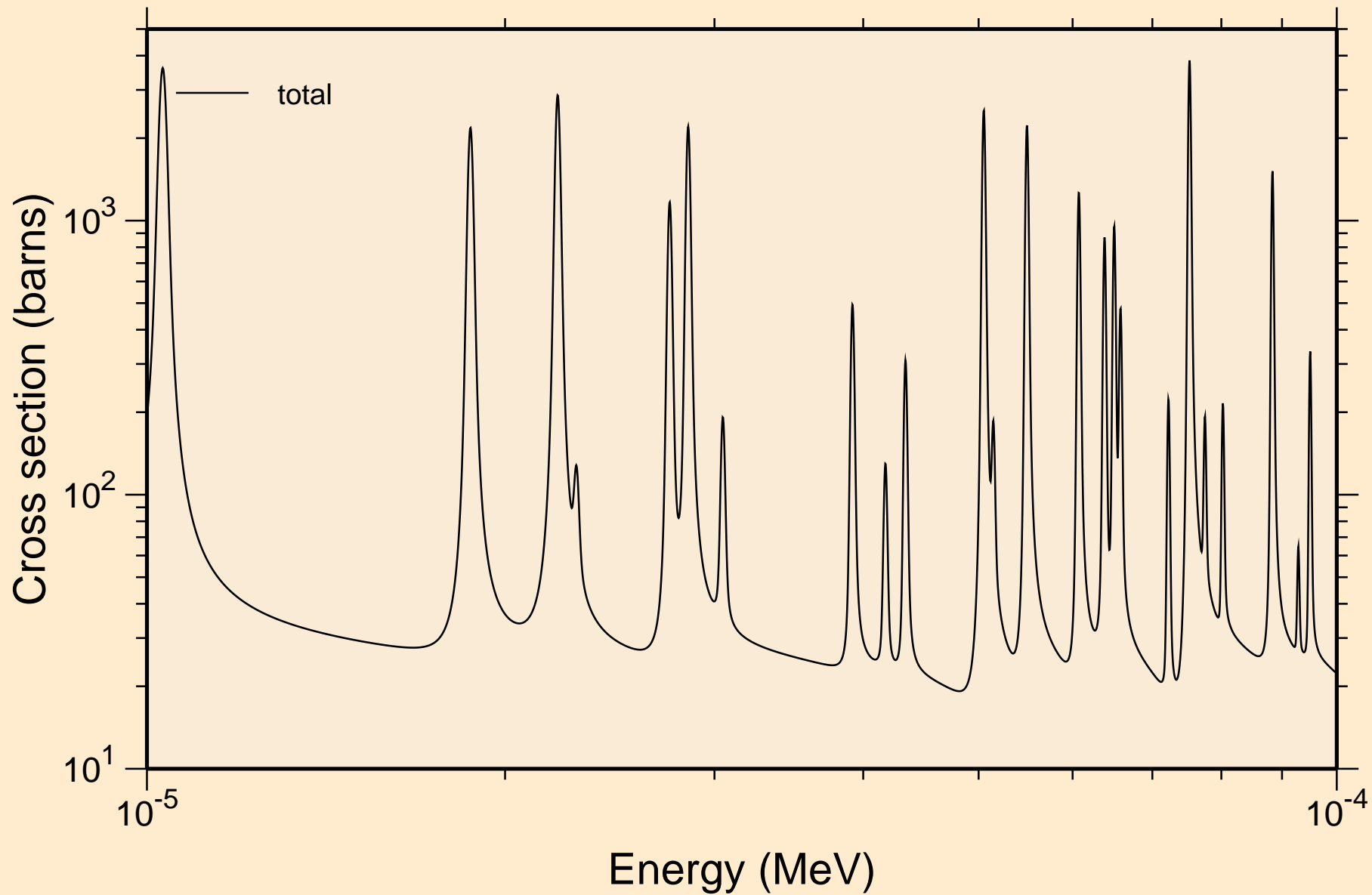
## Principal cross sections



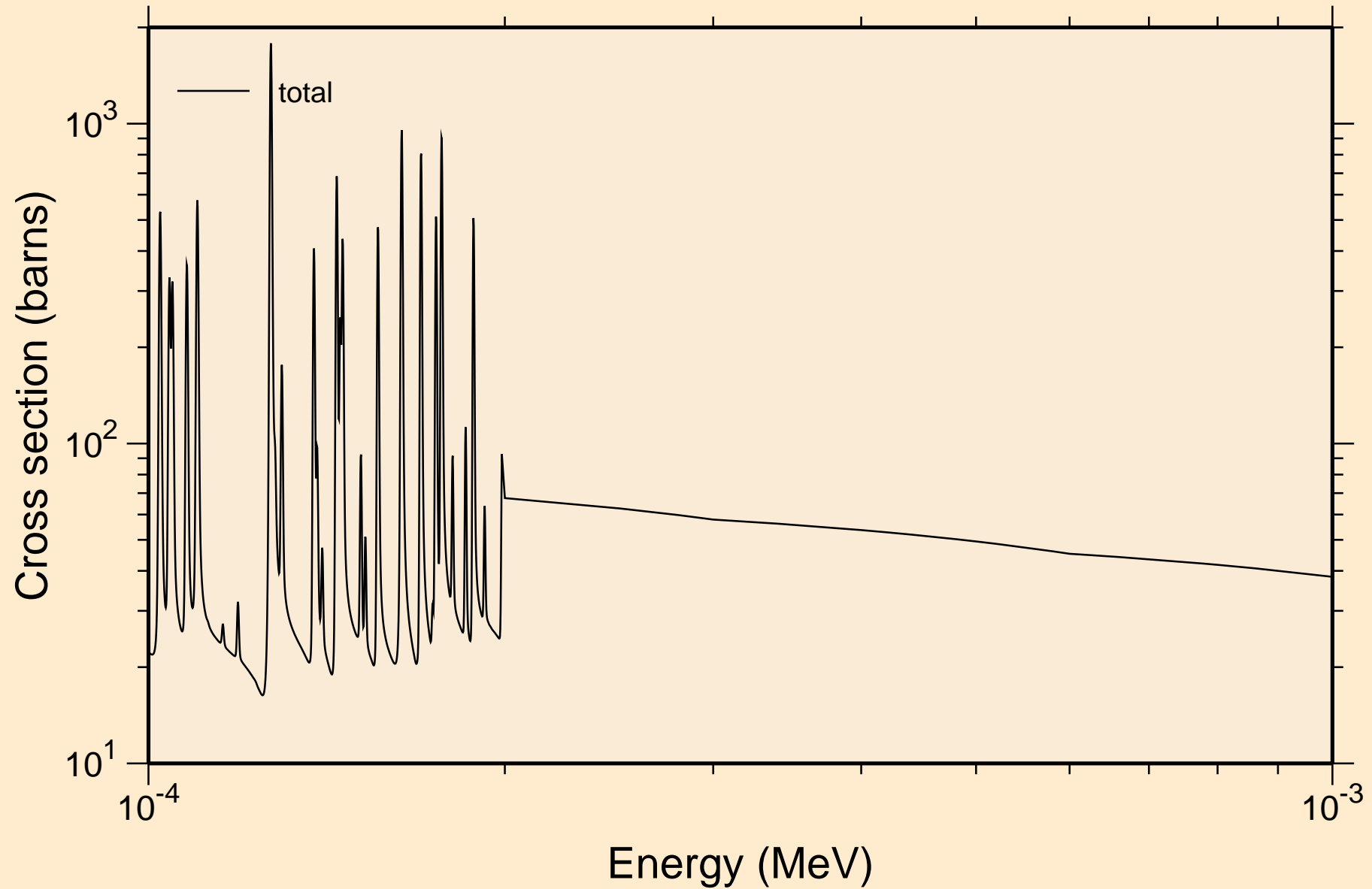
OS189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
resonance total cross section



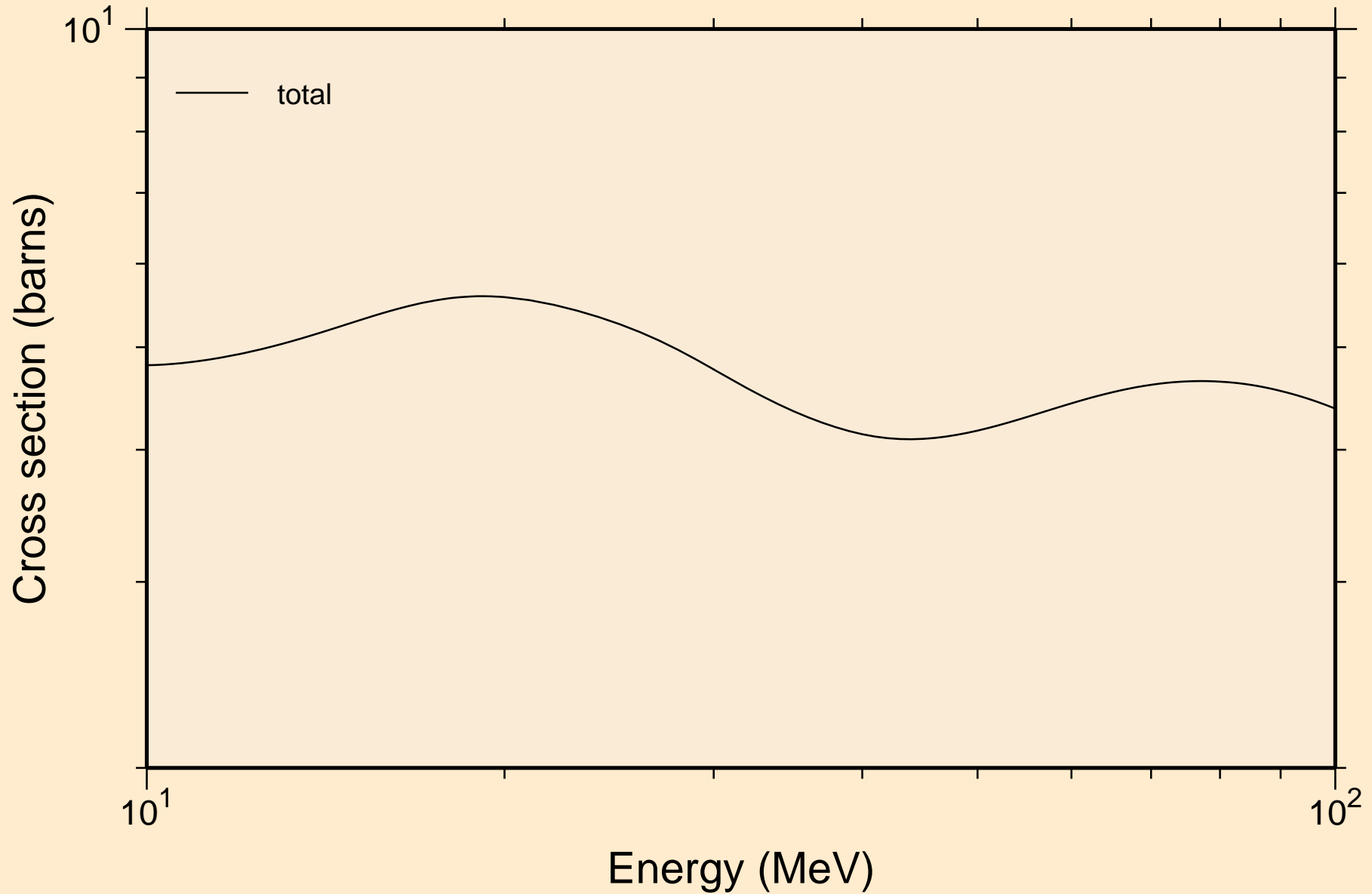
OS189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
resonance total cross section



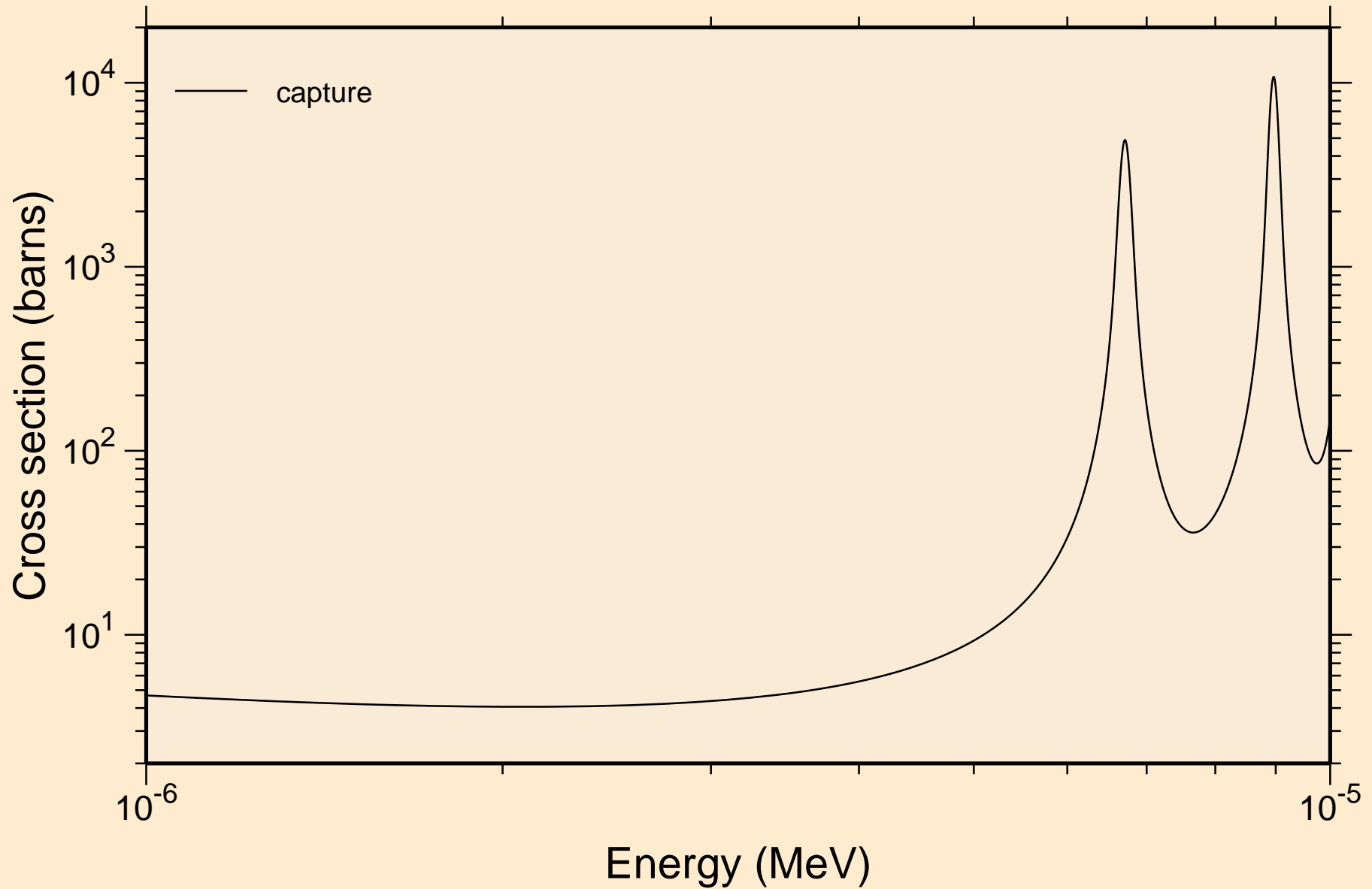
OS189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
resonance total cross section



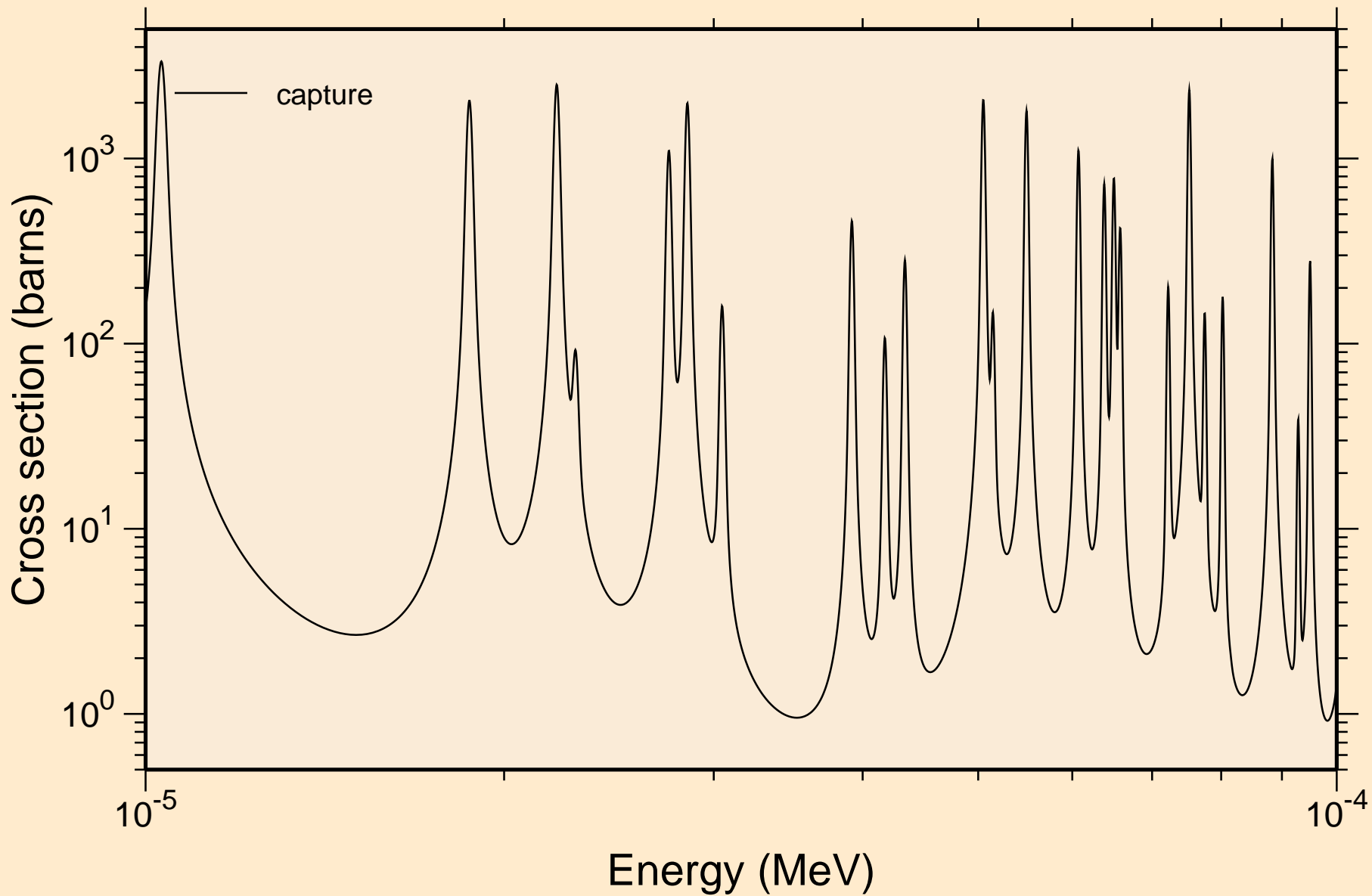
OS189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
resonance total cross section



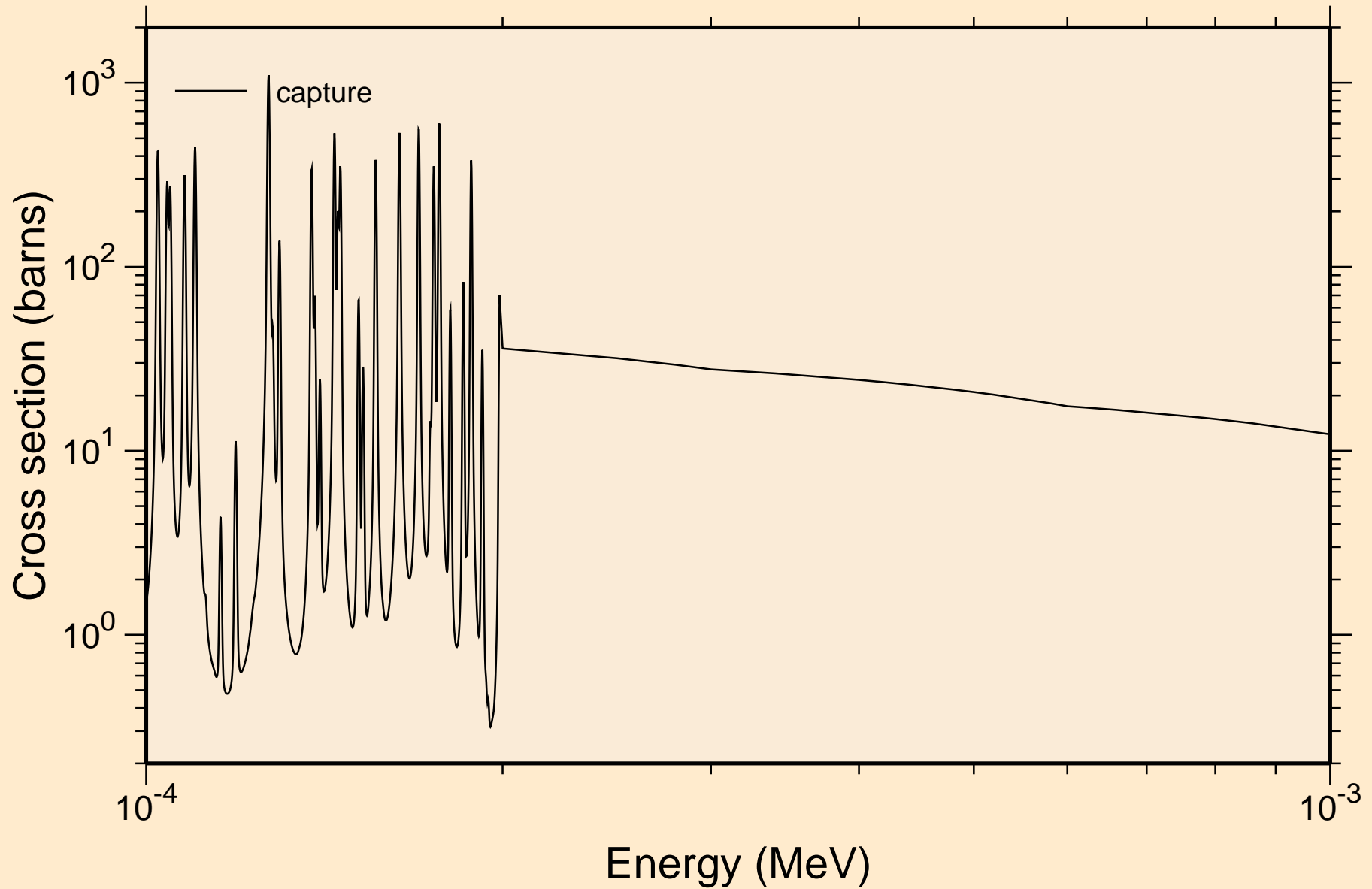
OS189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
resonance absorption cross sections



OS189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
resonance absorption cross sections

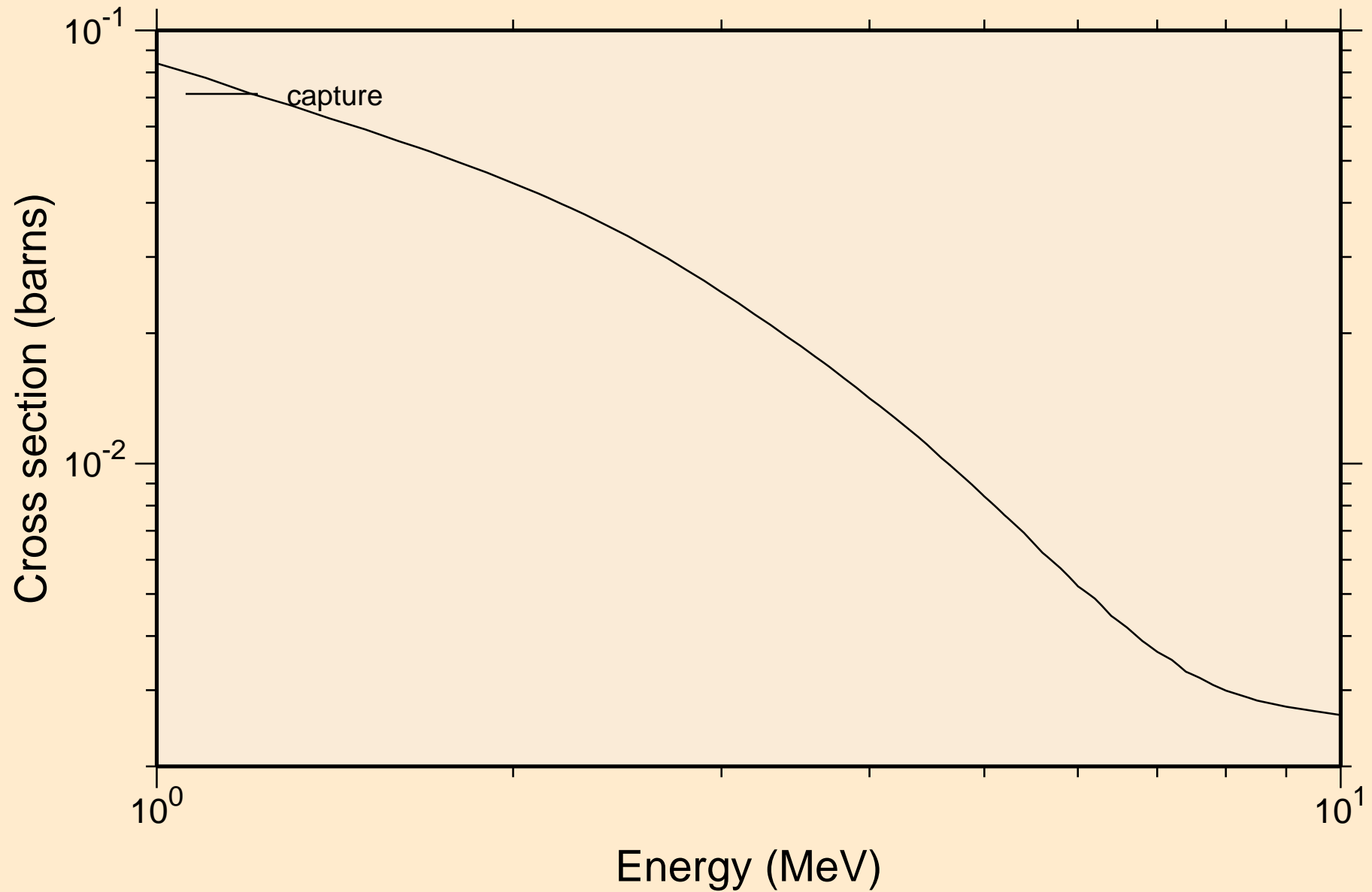


OS189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
resonance absorption cross sections

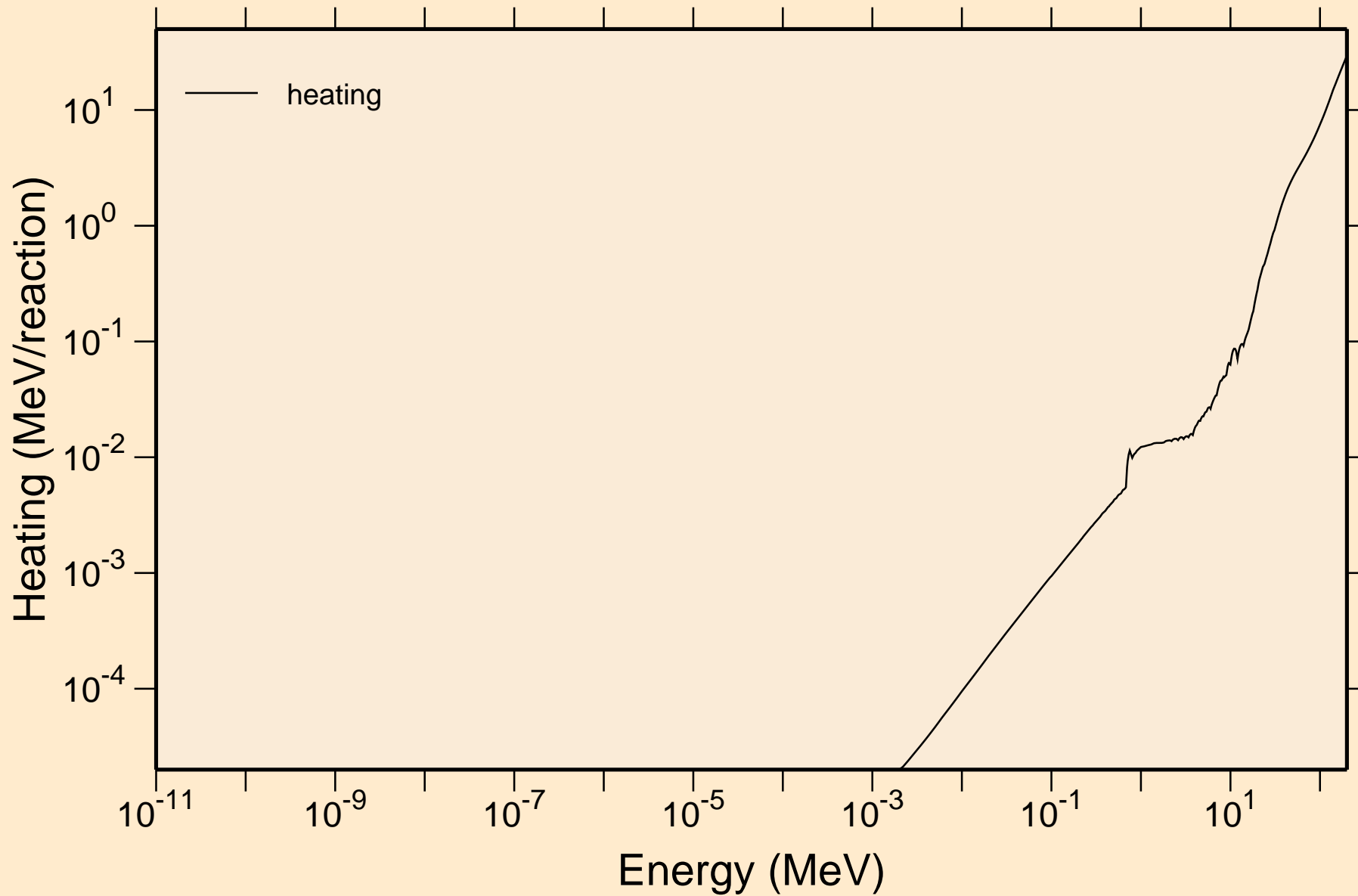




OS189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
resonance absorption cross sections

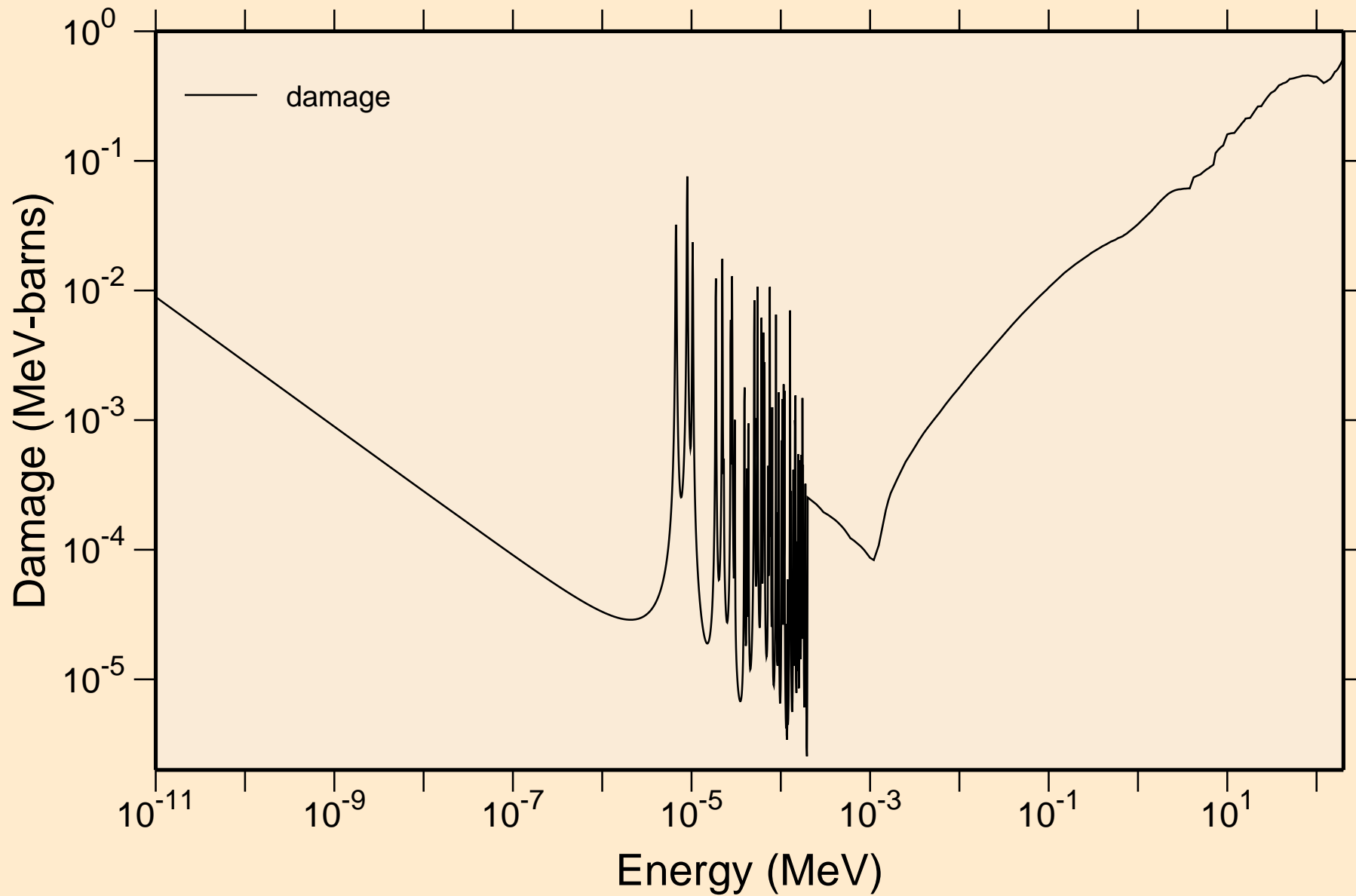


OS189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Heating

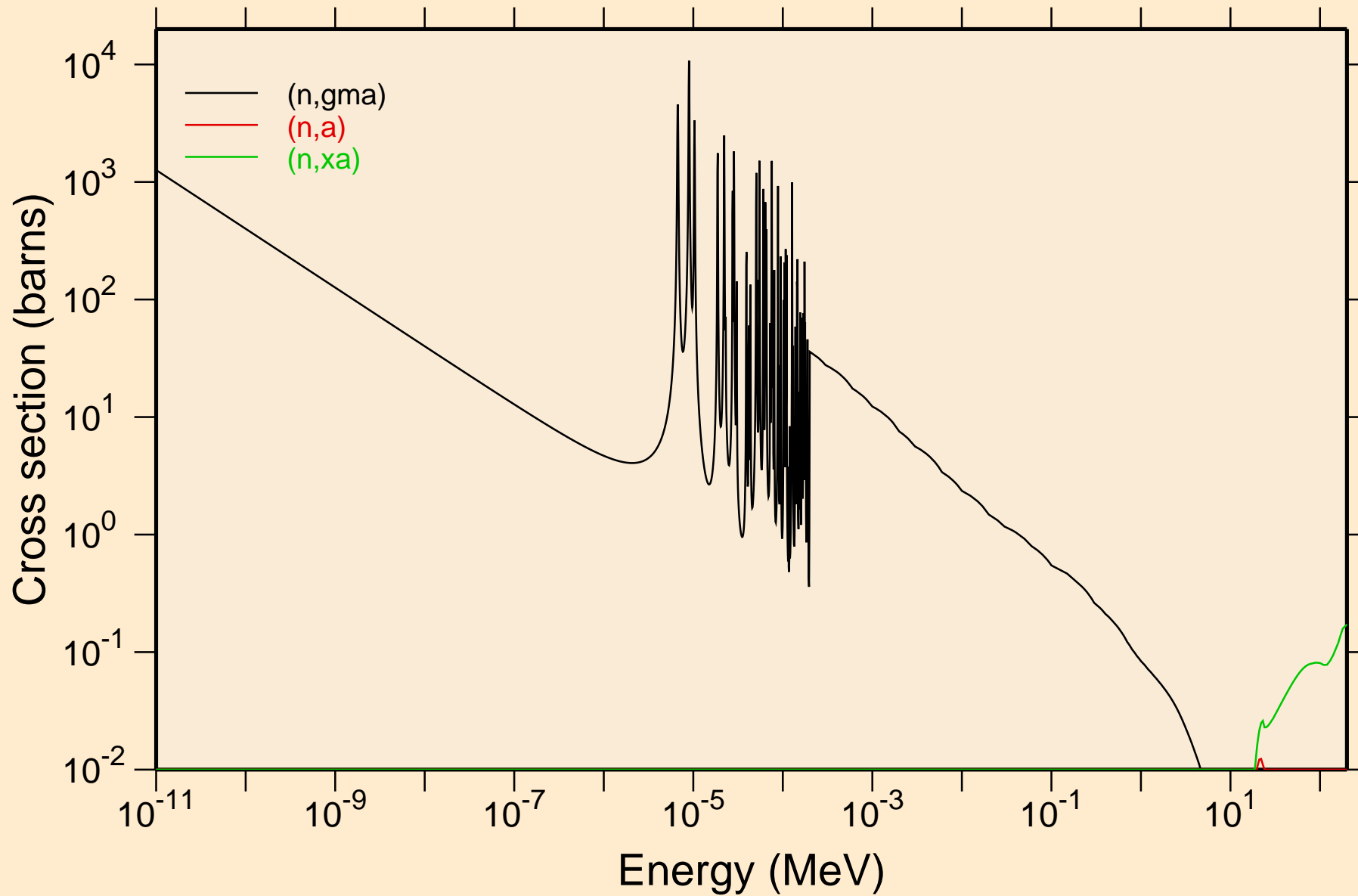


# OS189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K

## Damage

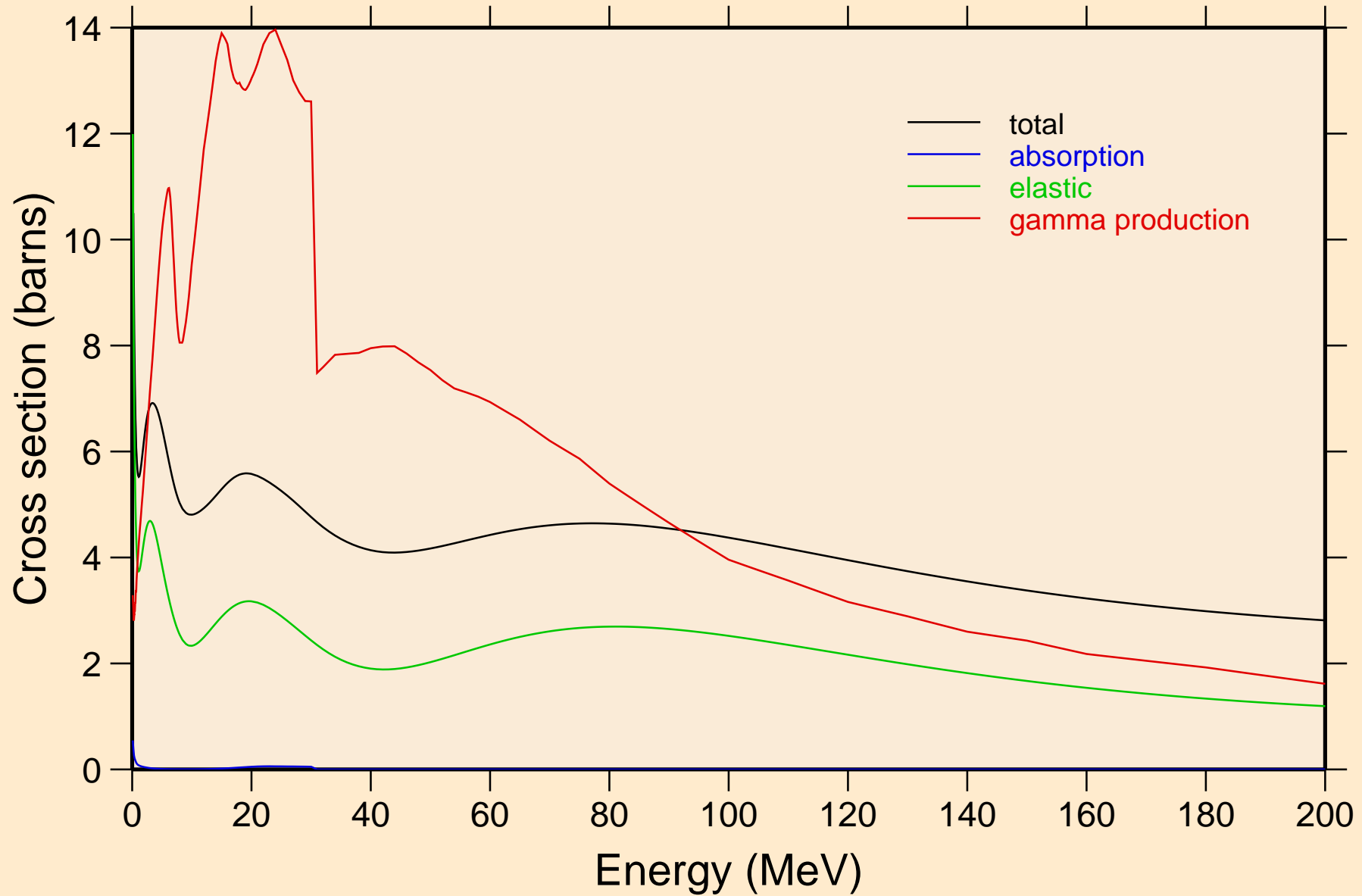


OS189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Non-threshold reactions

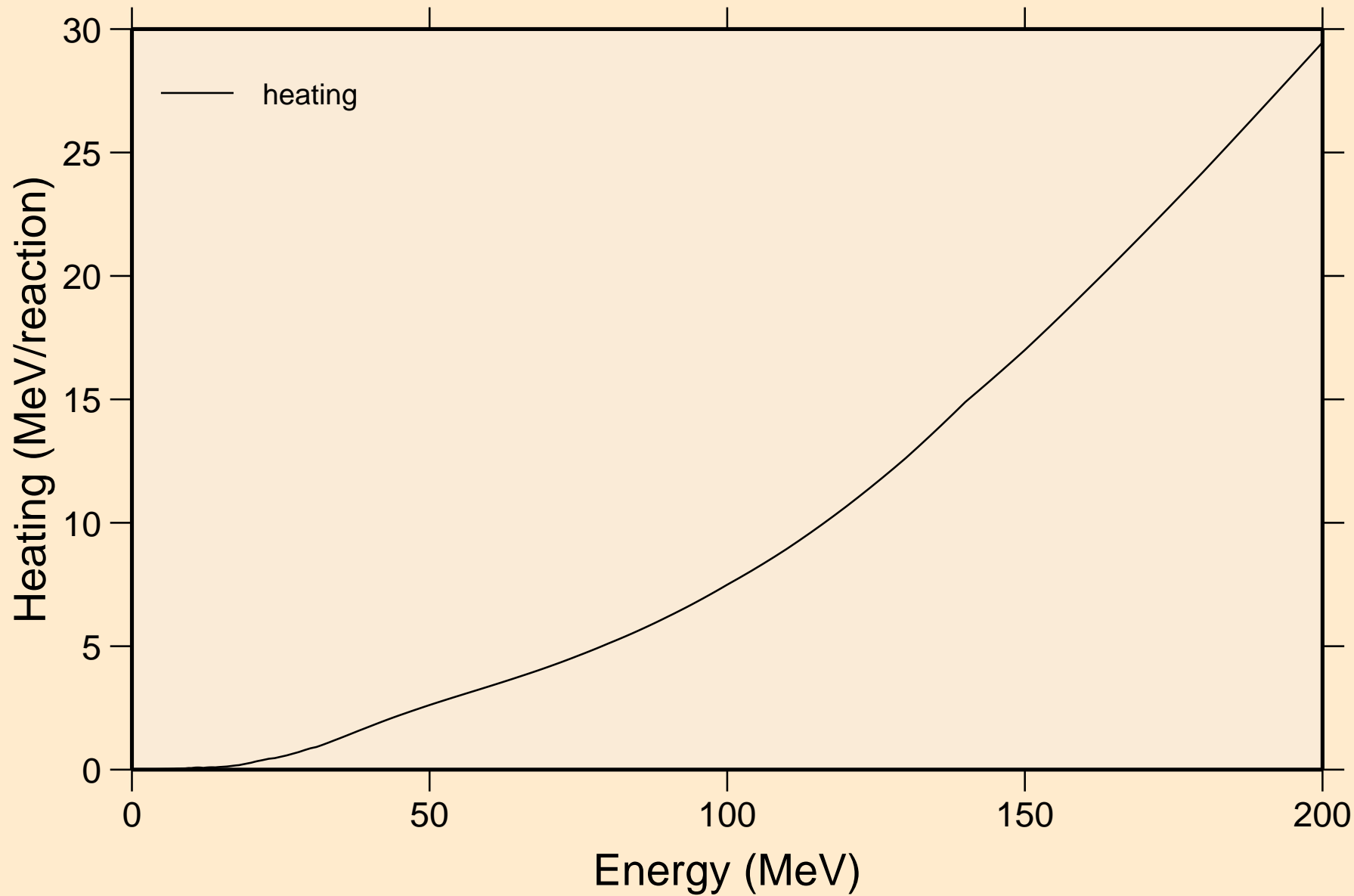


# OS189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K

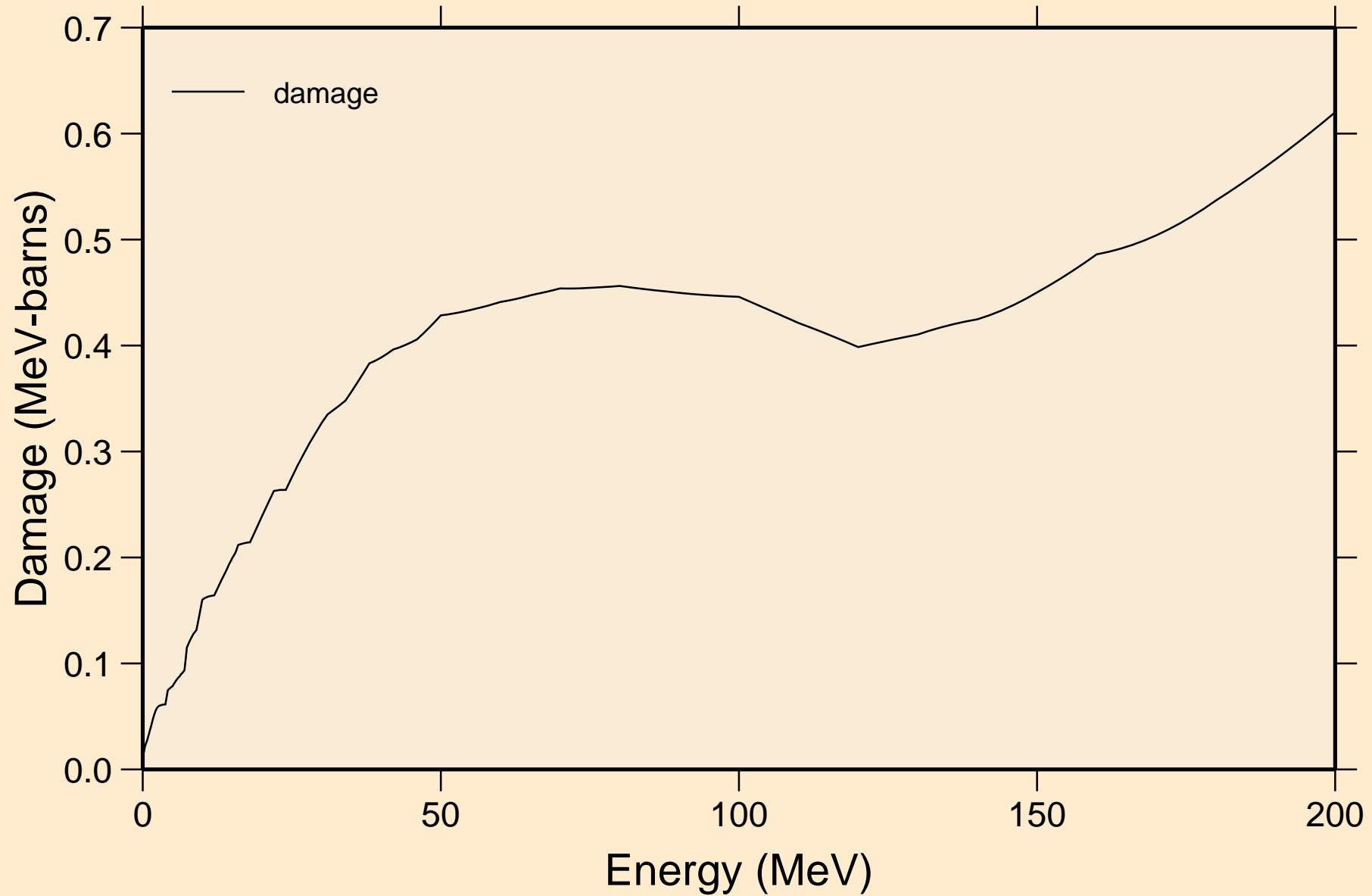
## Principal cross sections



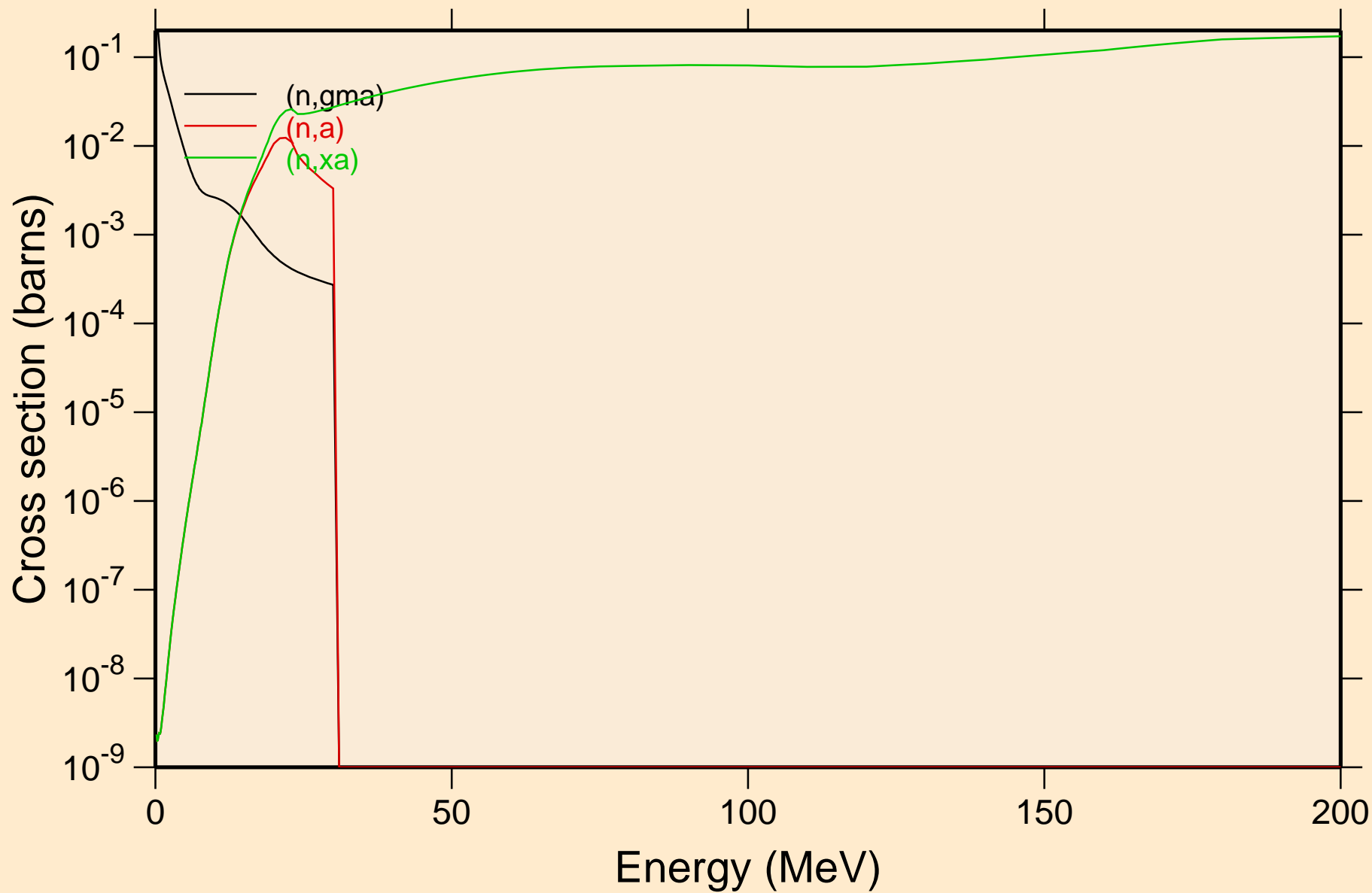
OS189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Heating



OS189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Damage

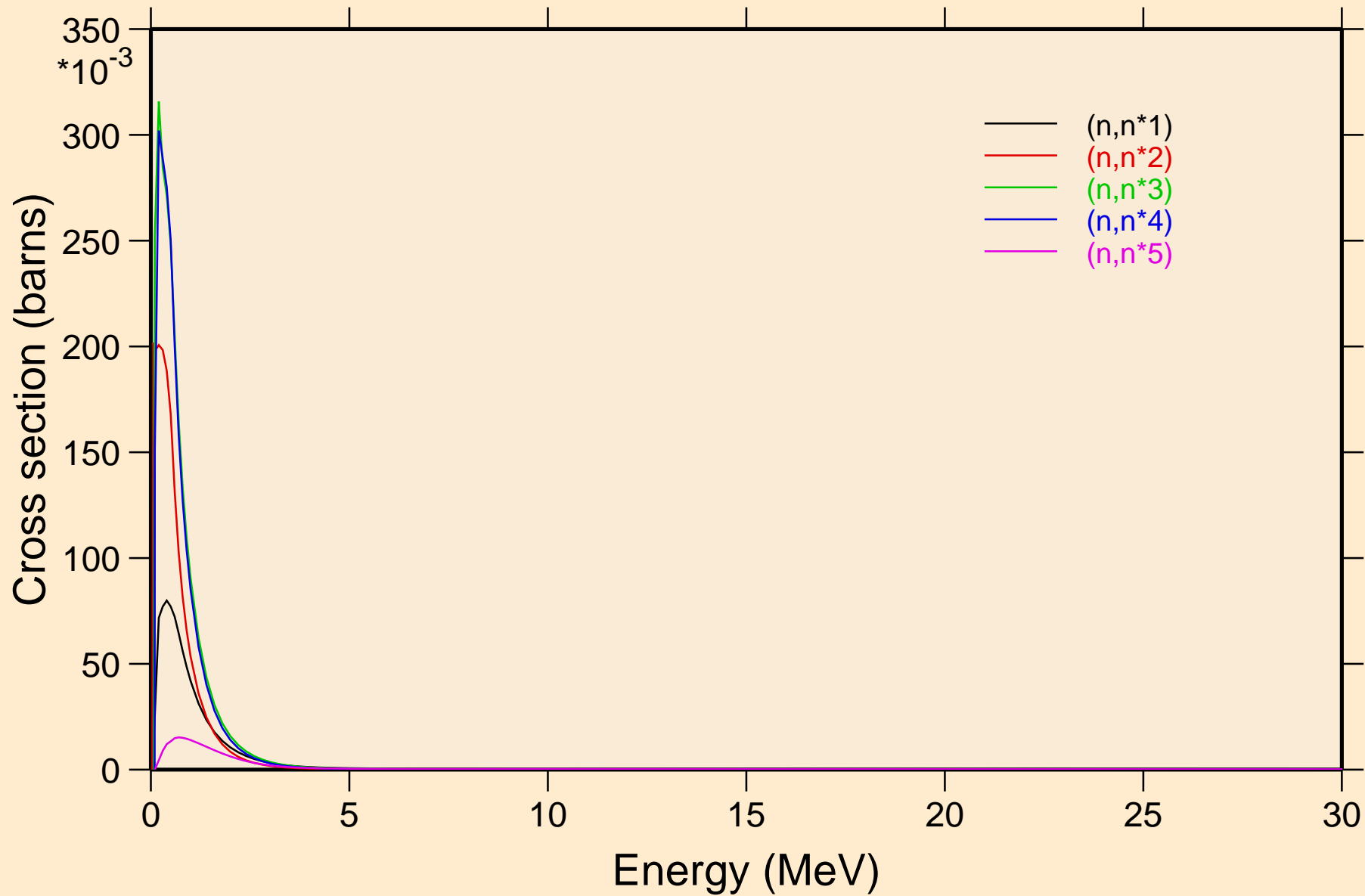


OS189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Non-threshold reactions

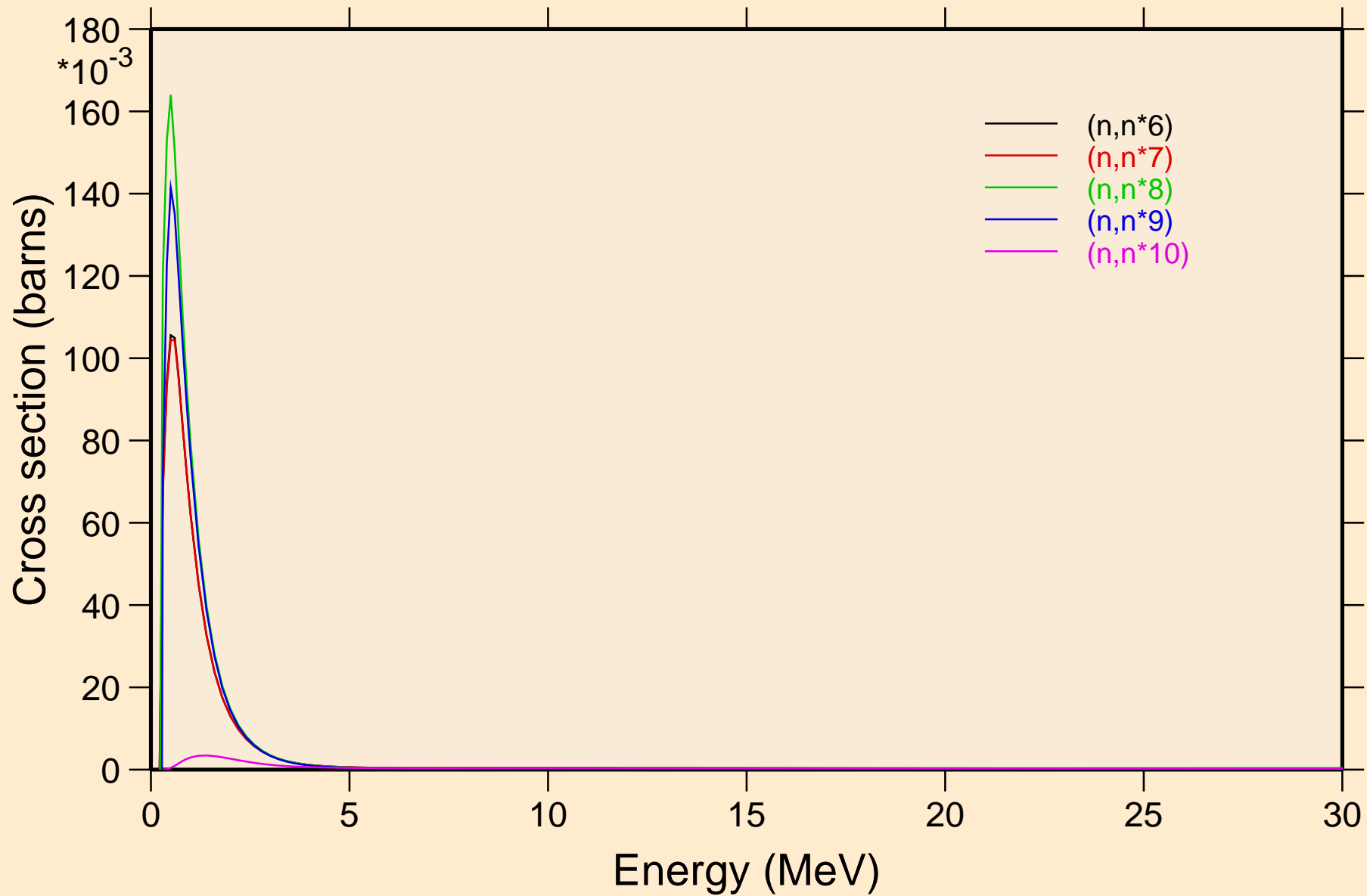




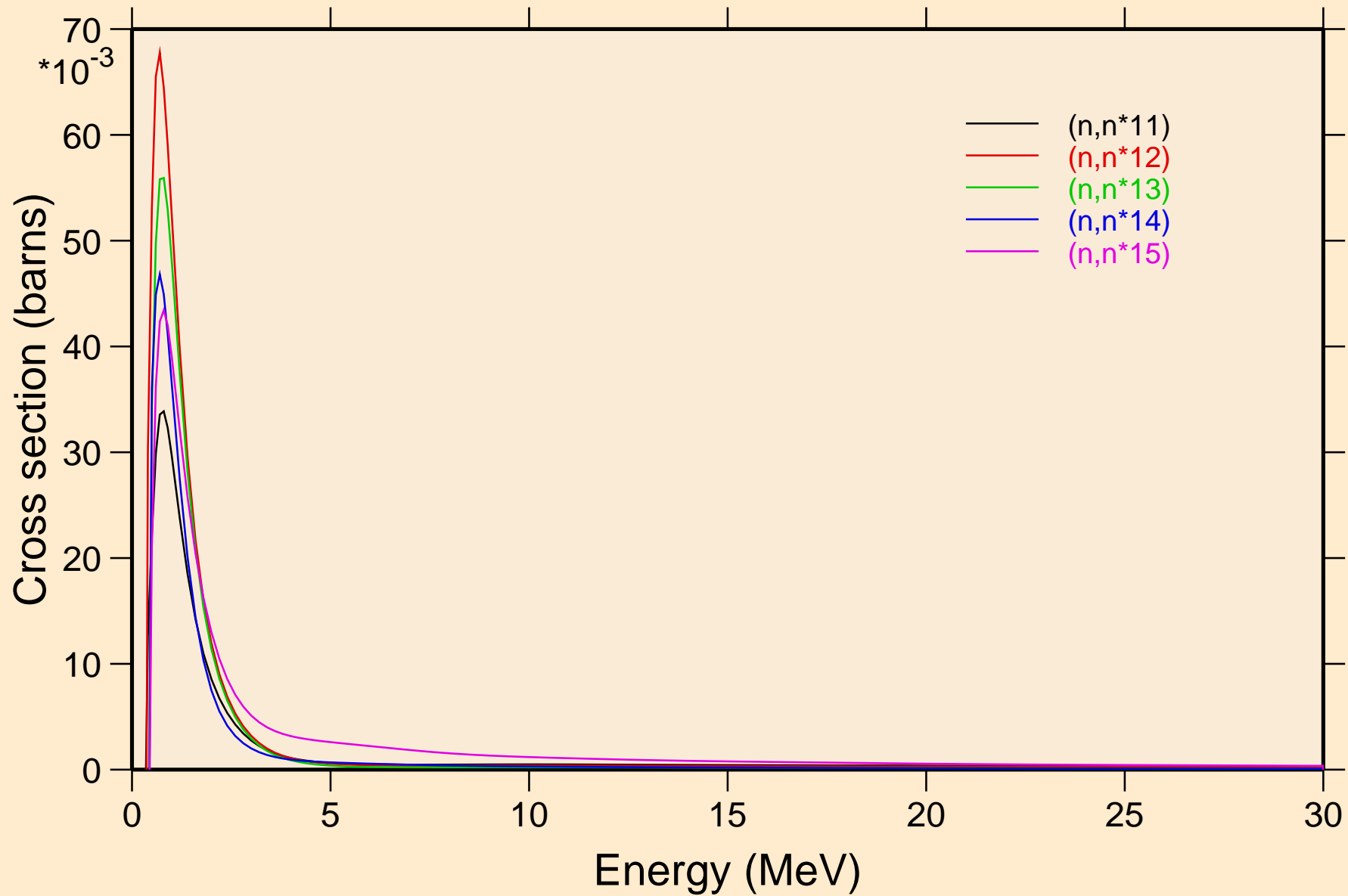
OS189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Inelastic levels



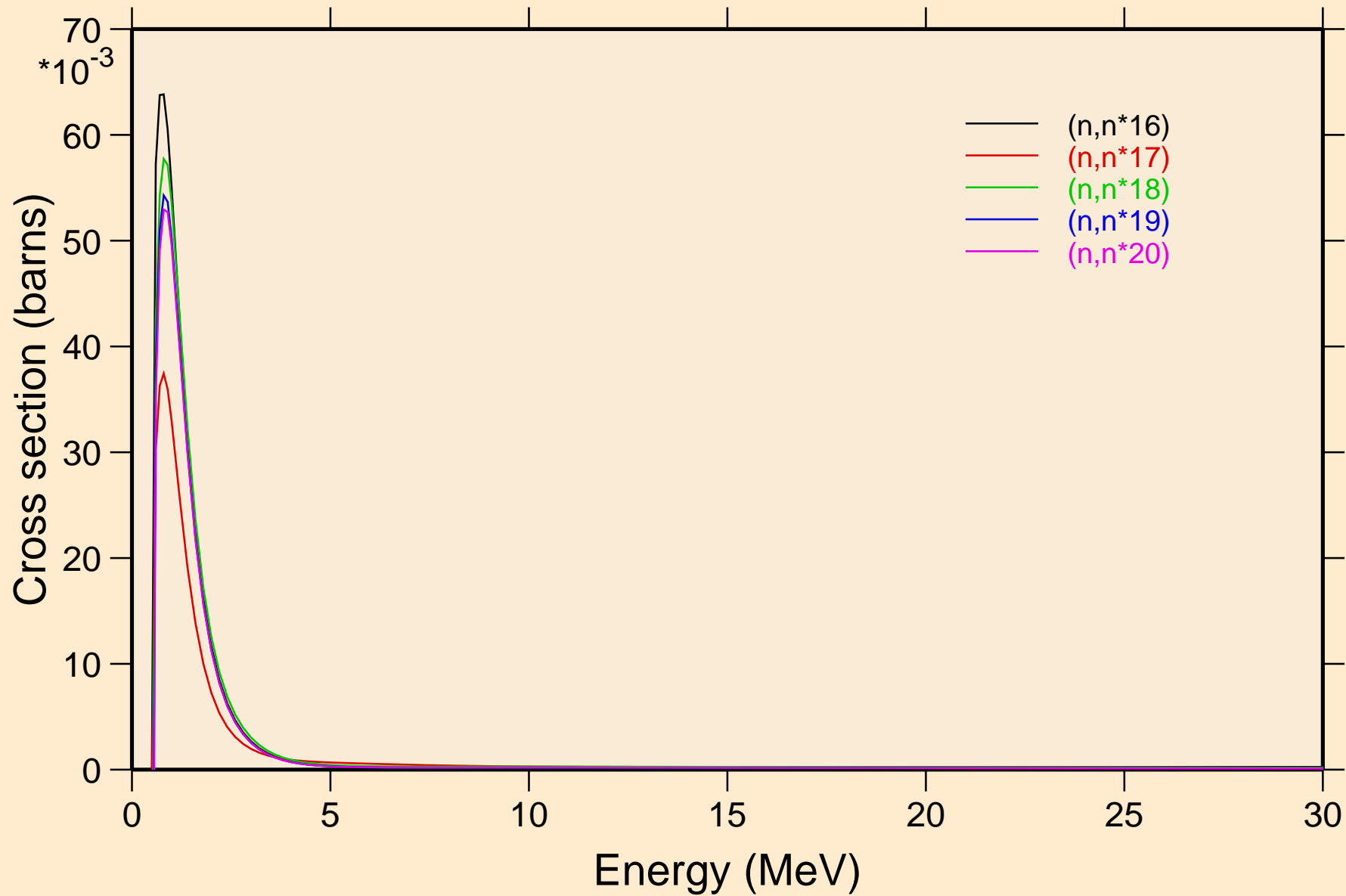
OS189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Inelastic levels



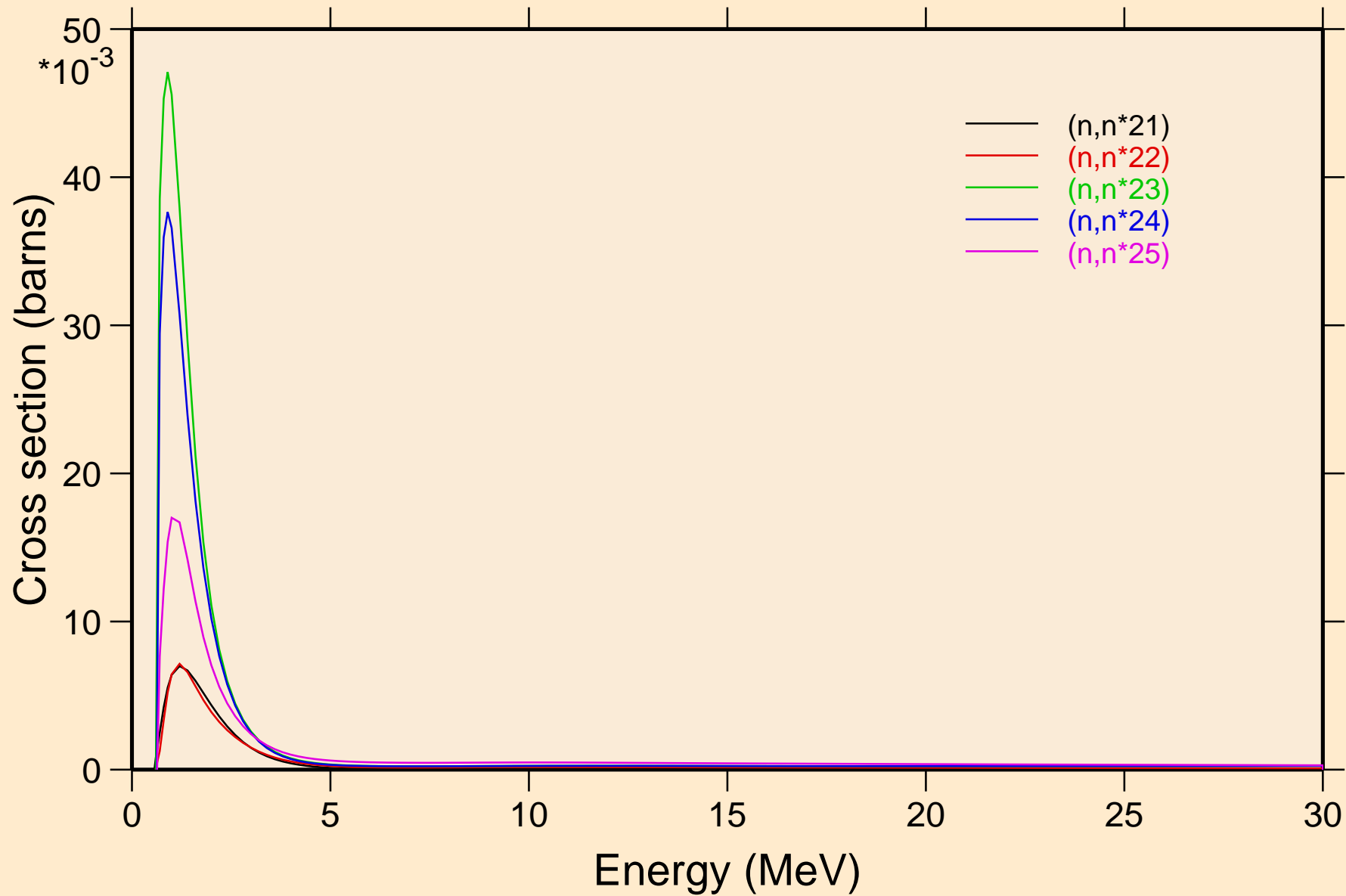
OS189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Inelastic levels



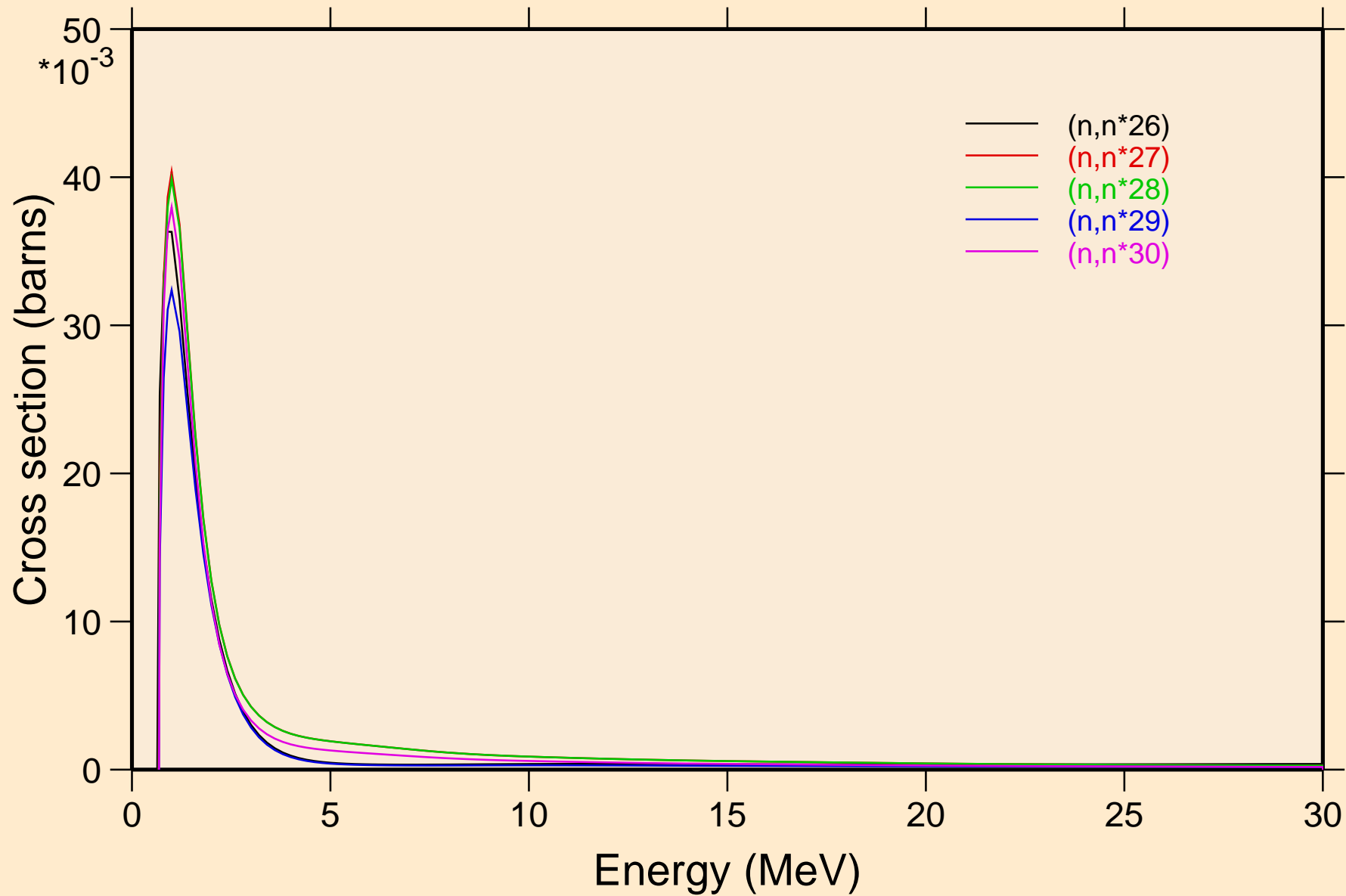
OS189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Inelastic levels



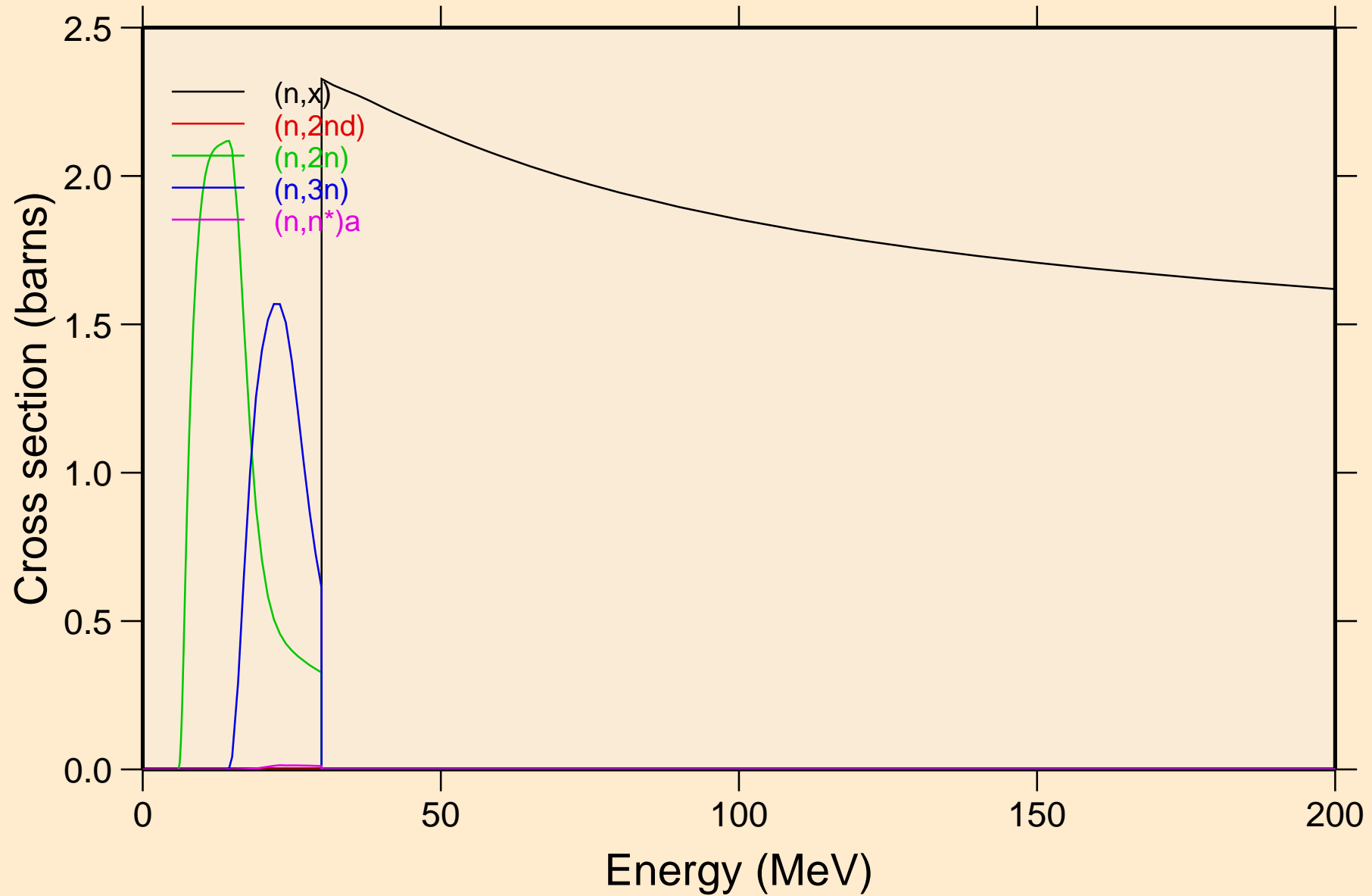
OS189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Inelastic levels



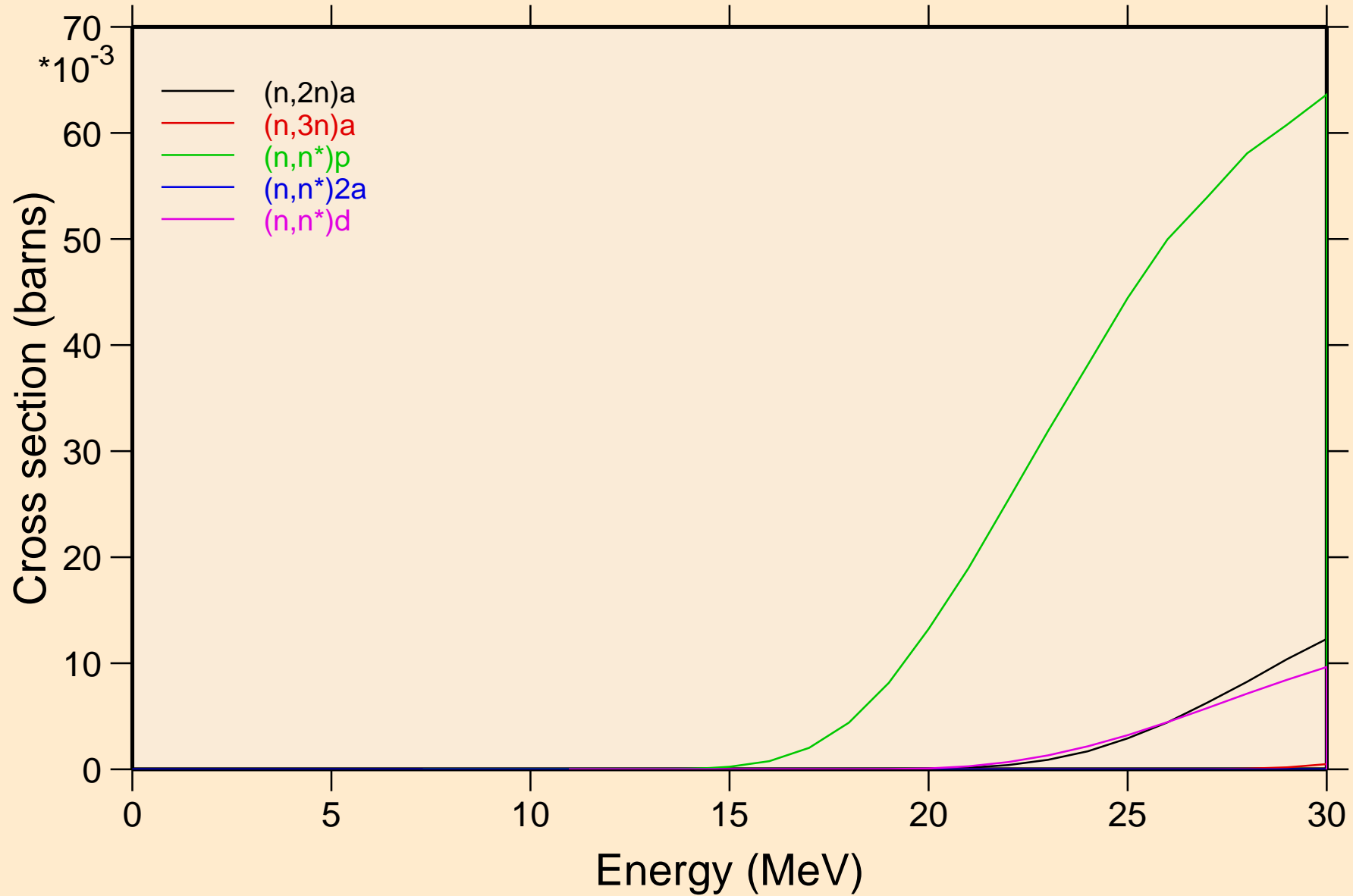
OS189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Inelastic levels



OS189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Threshold reactions

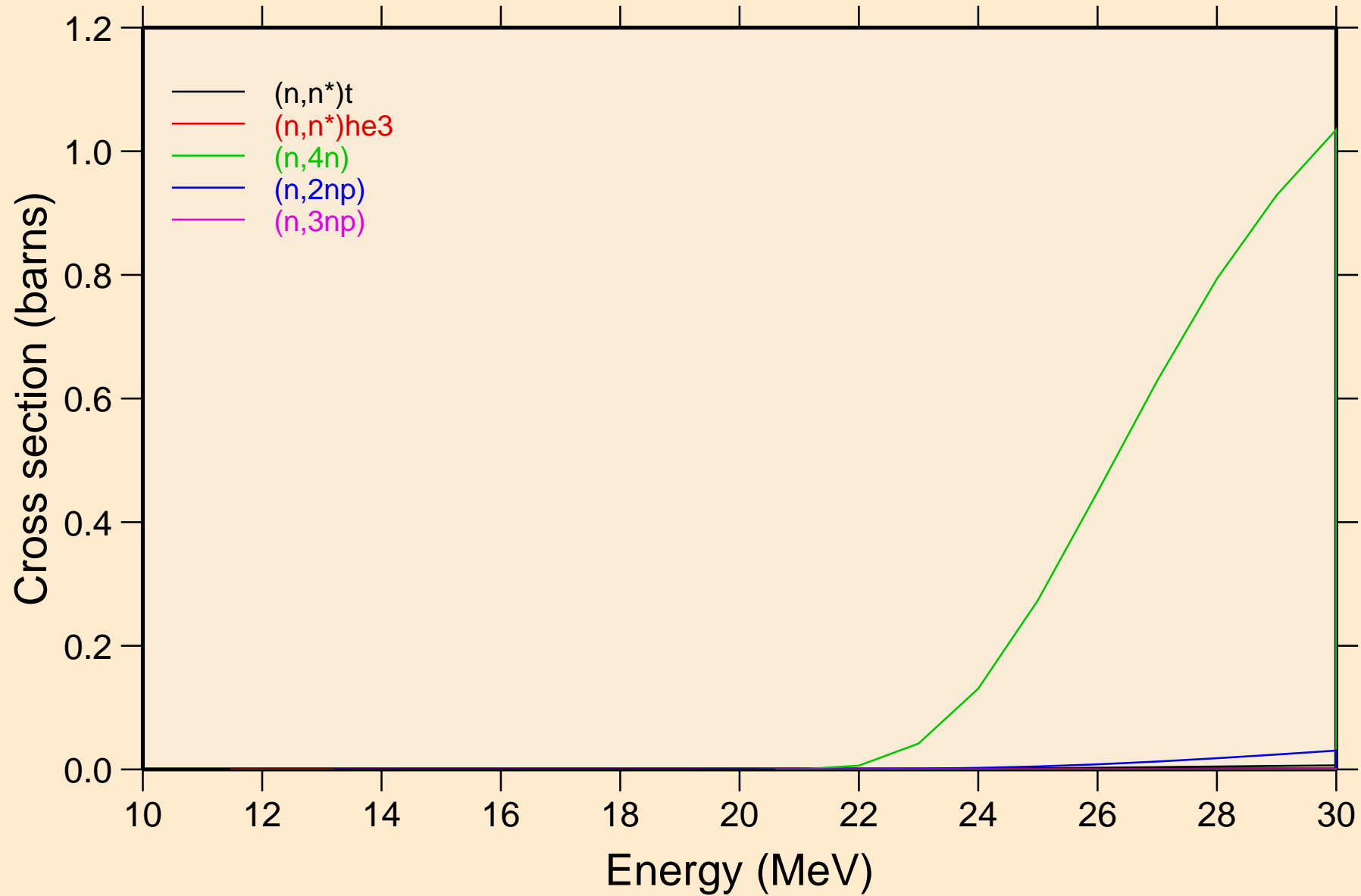


OS189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Threshold reactions



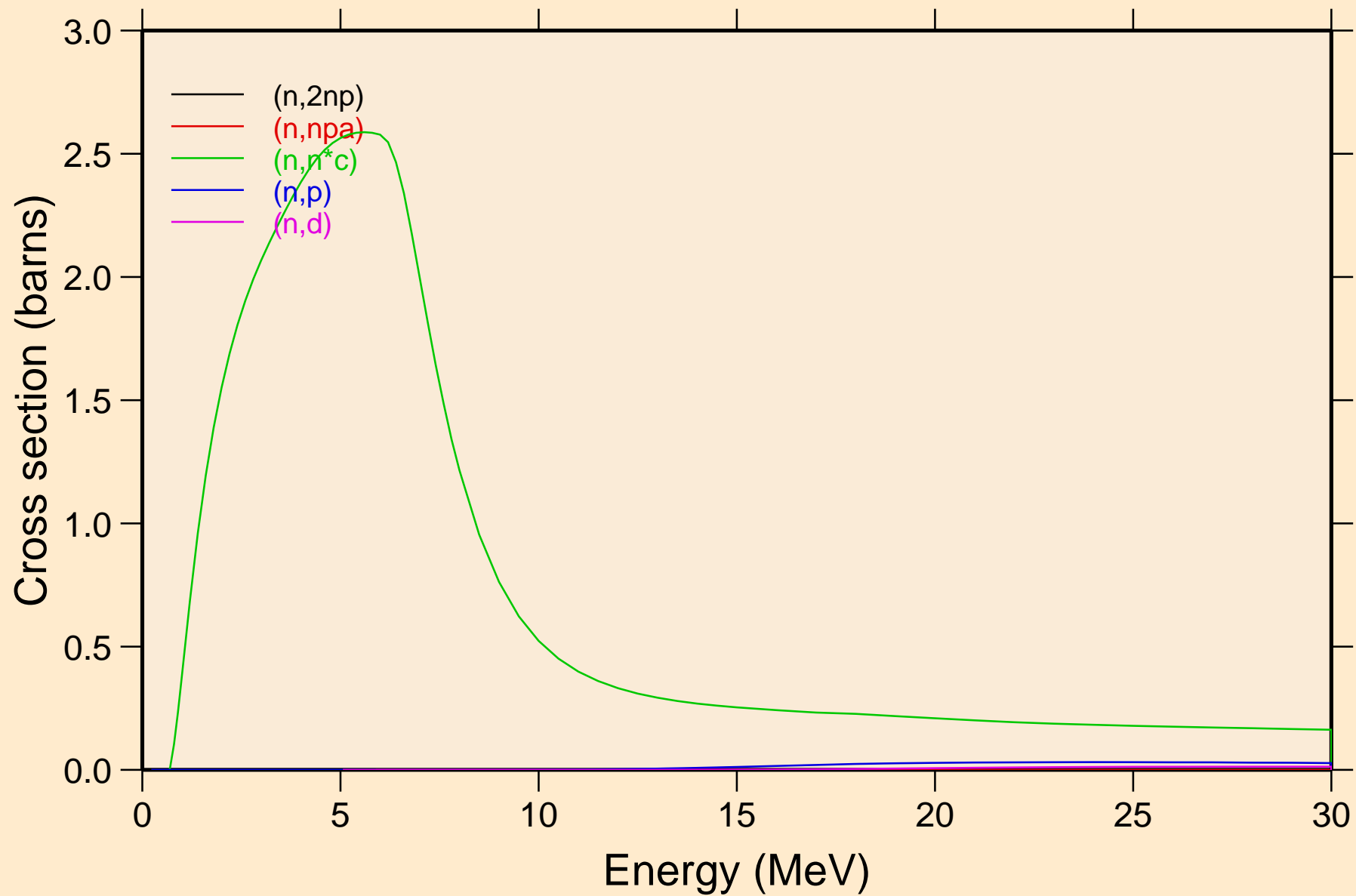


OS189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Threshold reactions

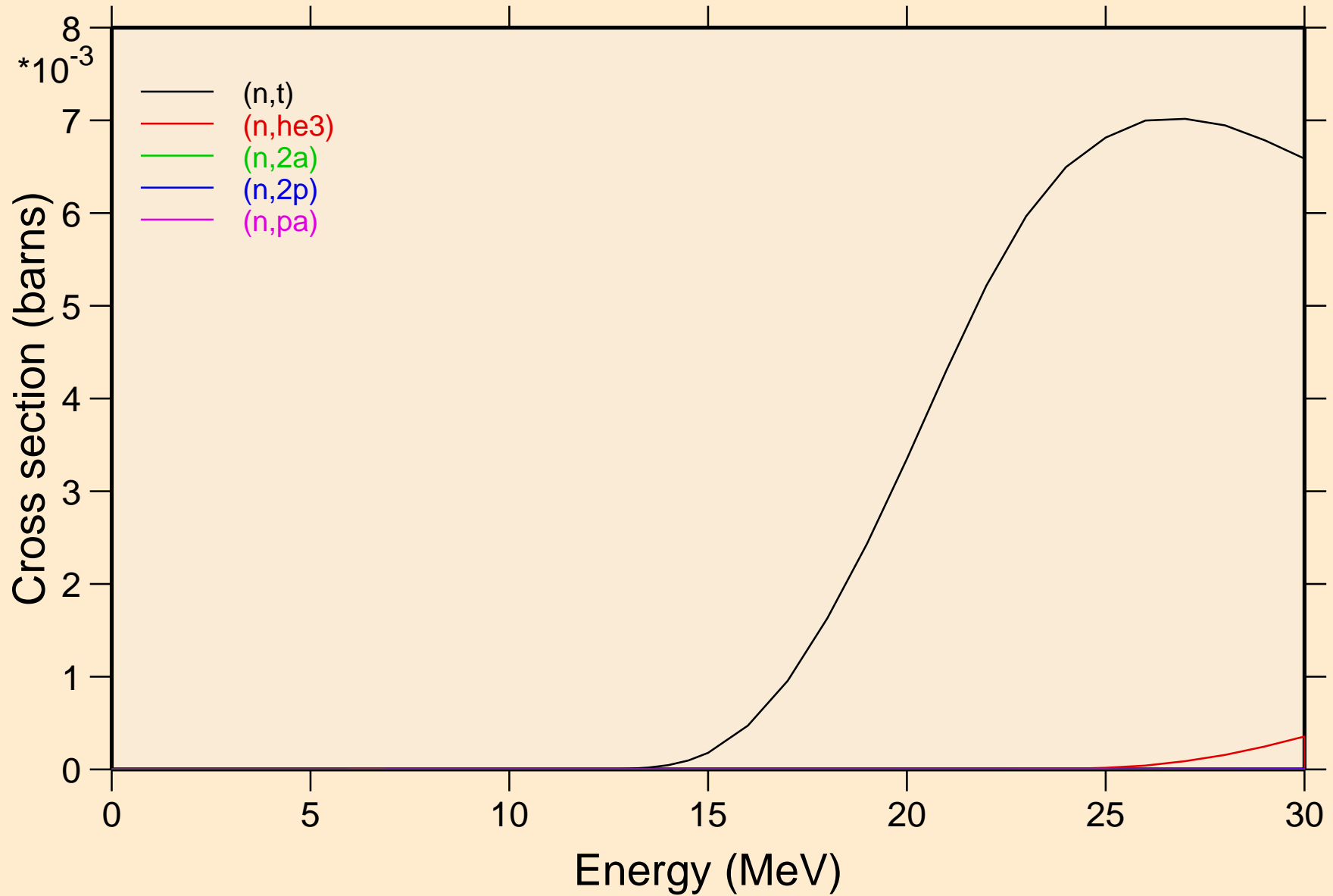


# OS189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K

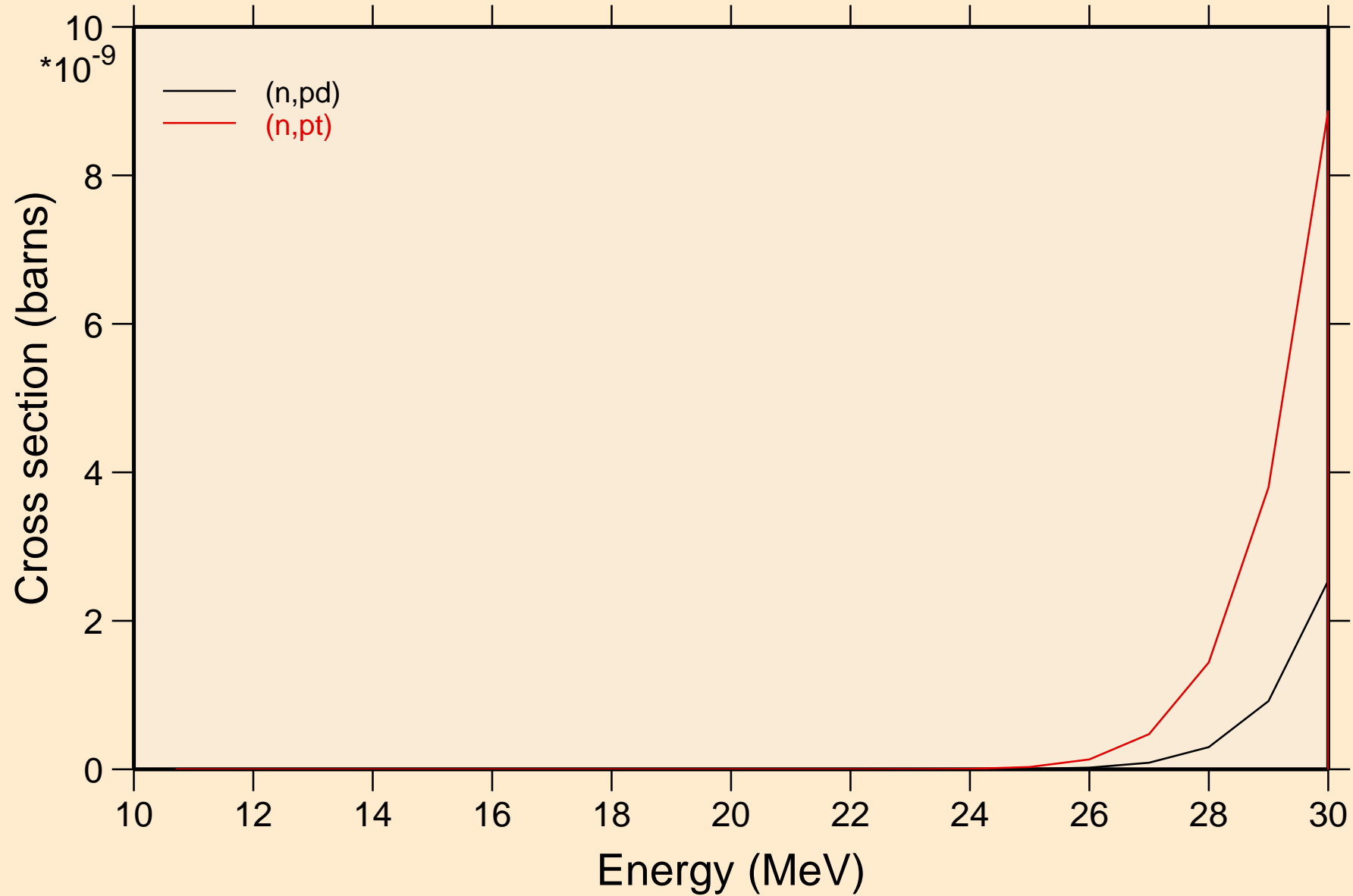
## Threshold reactions



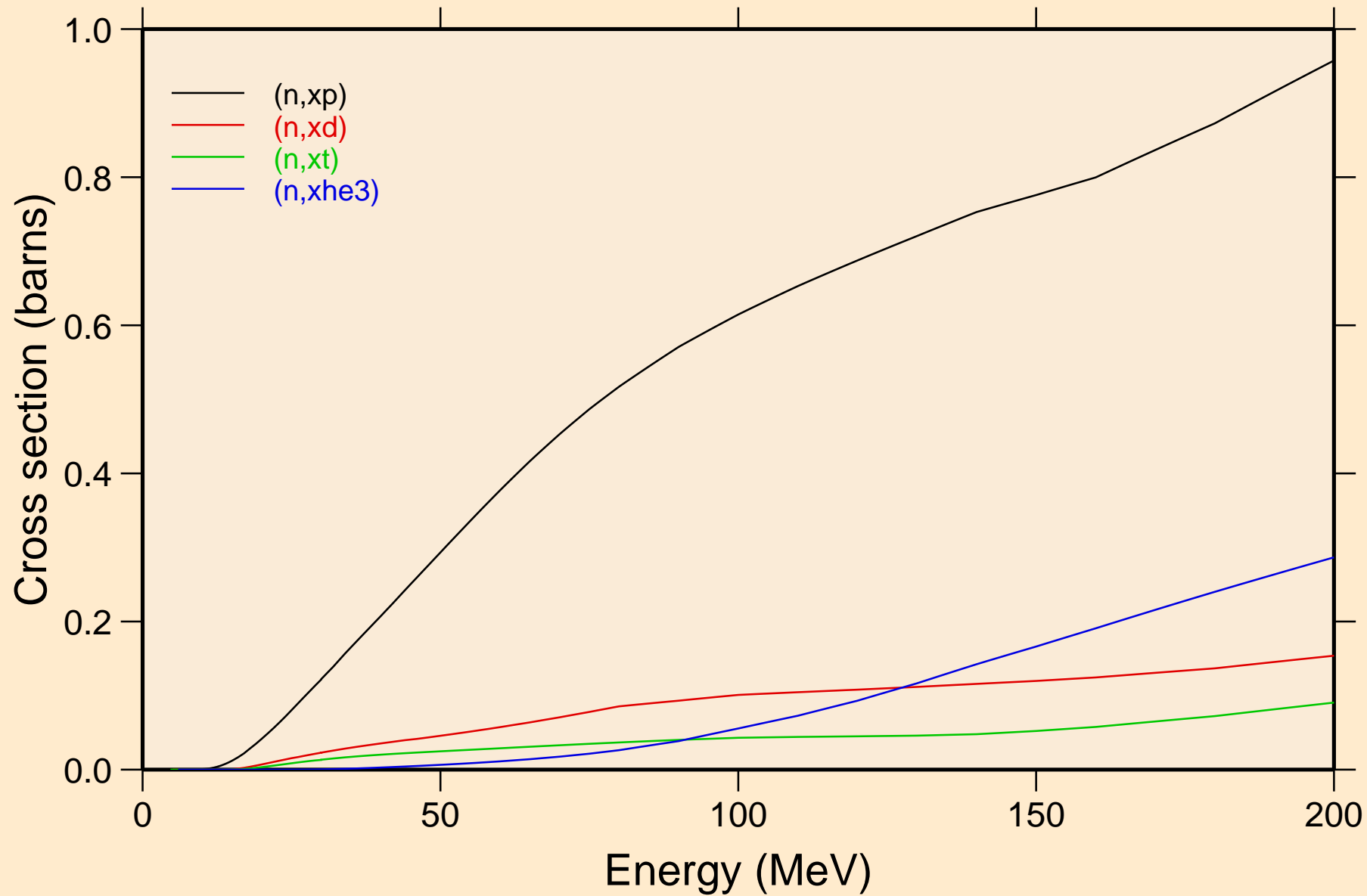
OS189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Threshold reactions



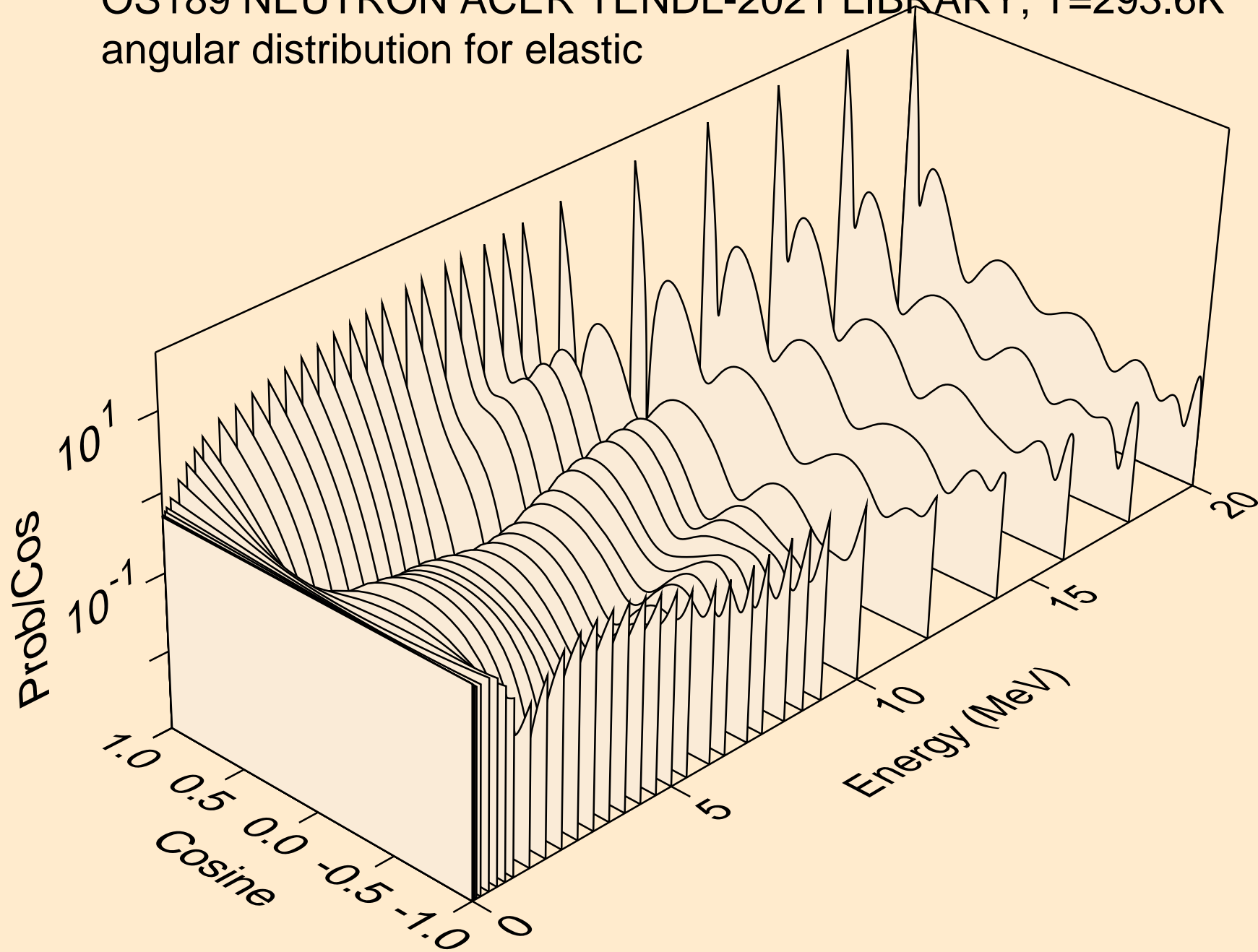
OS189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Threshold reactions



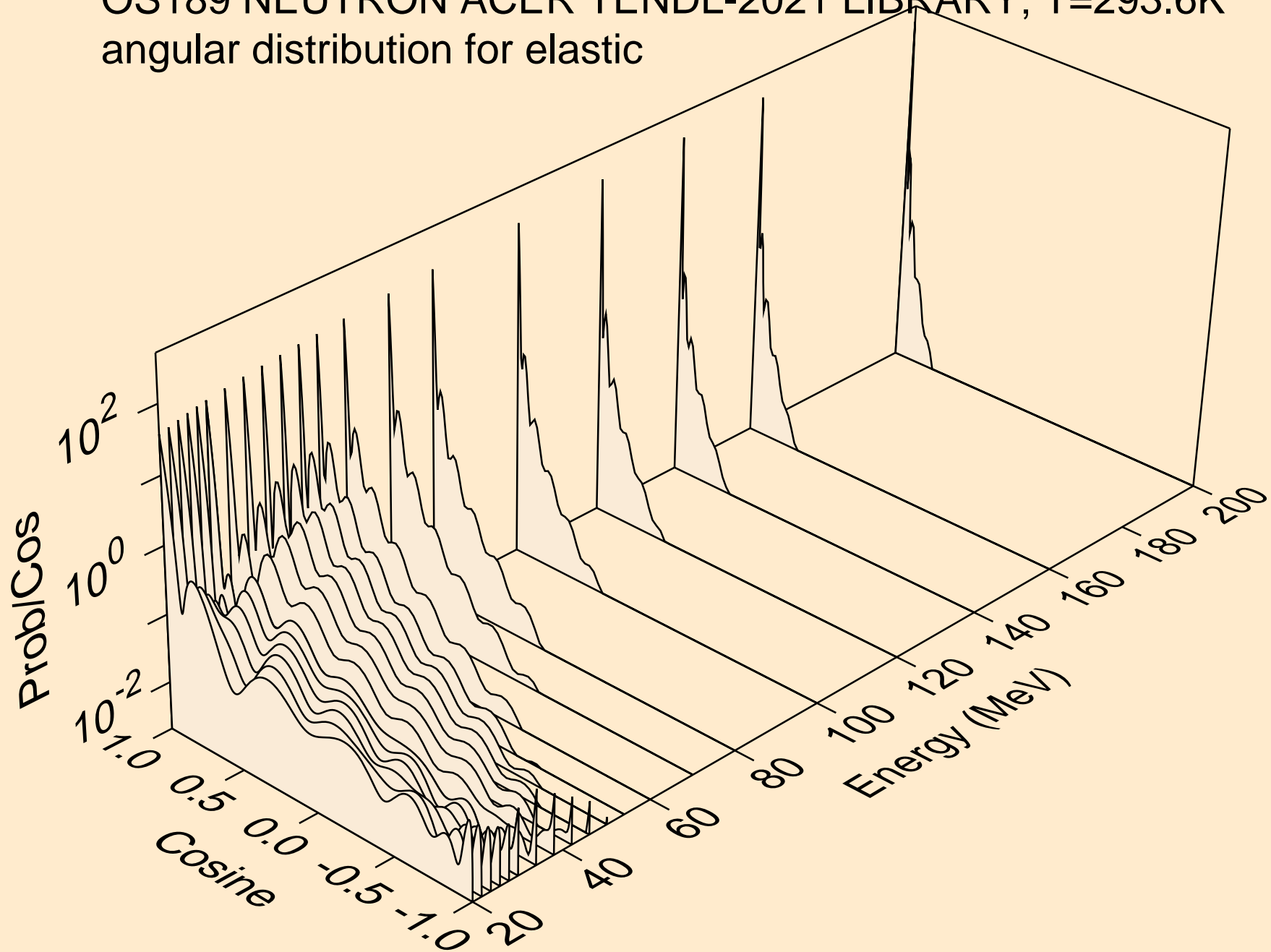
OS189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Threshold reactions



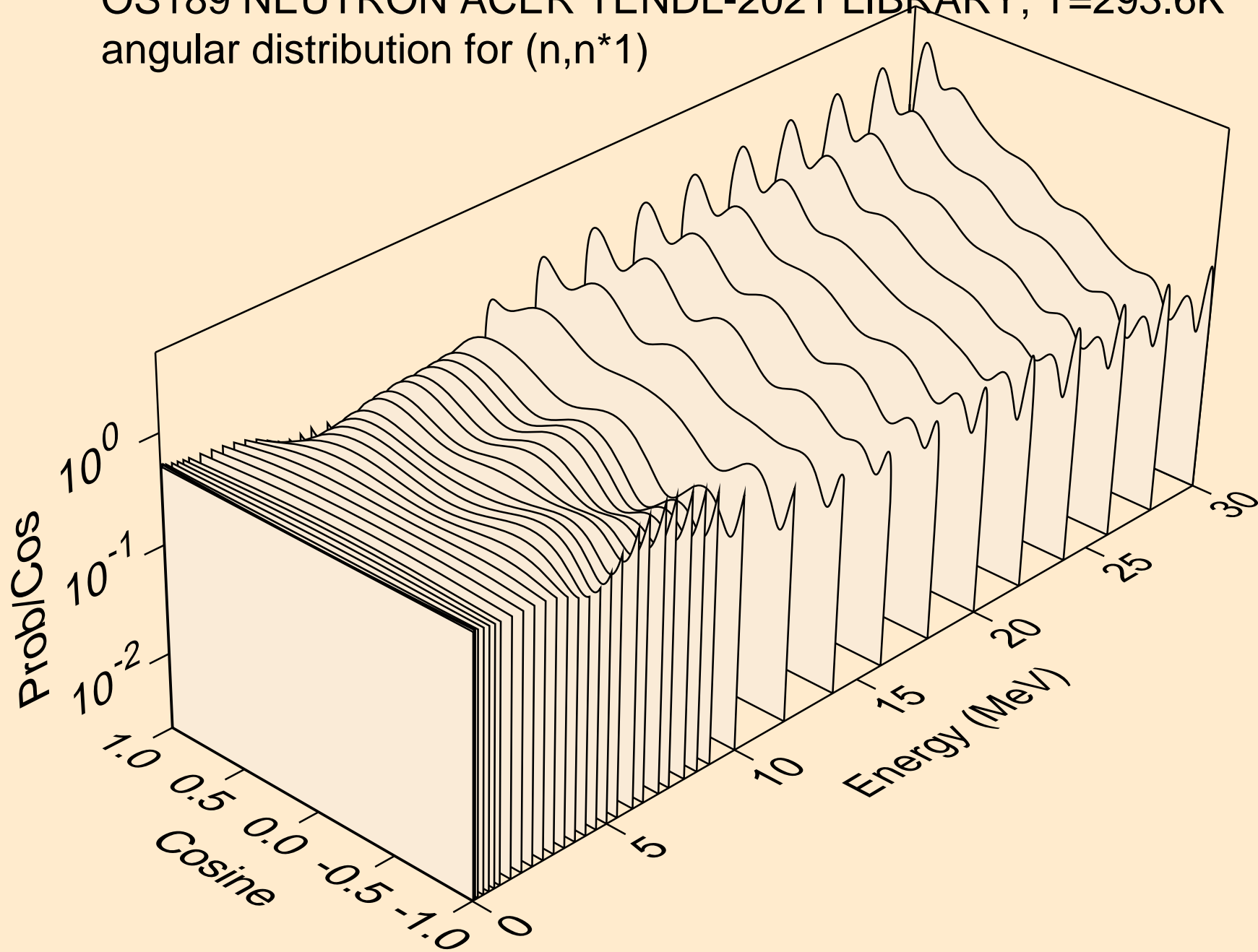
OS189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for elastic



OS189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for elastic

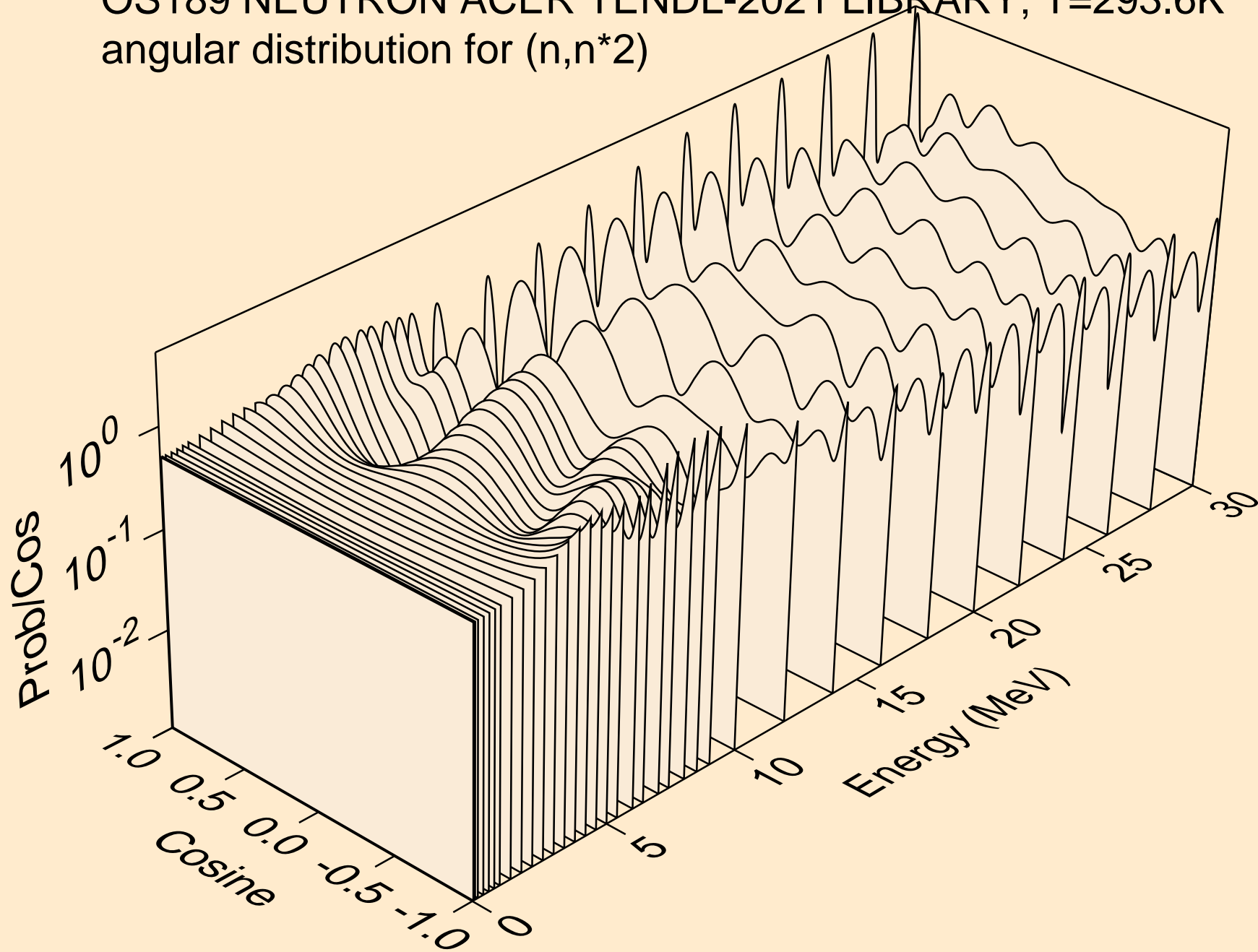


OS189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for (n,n\*1)

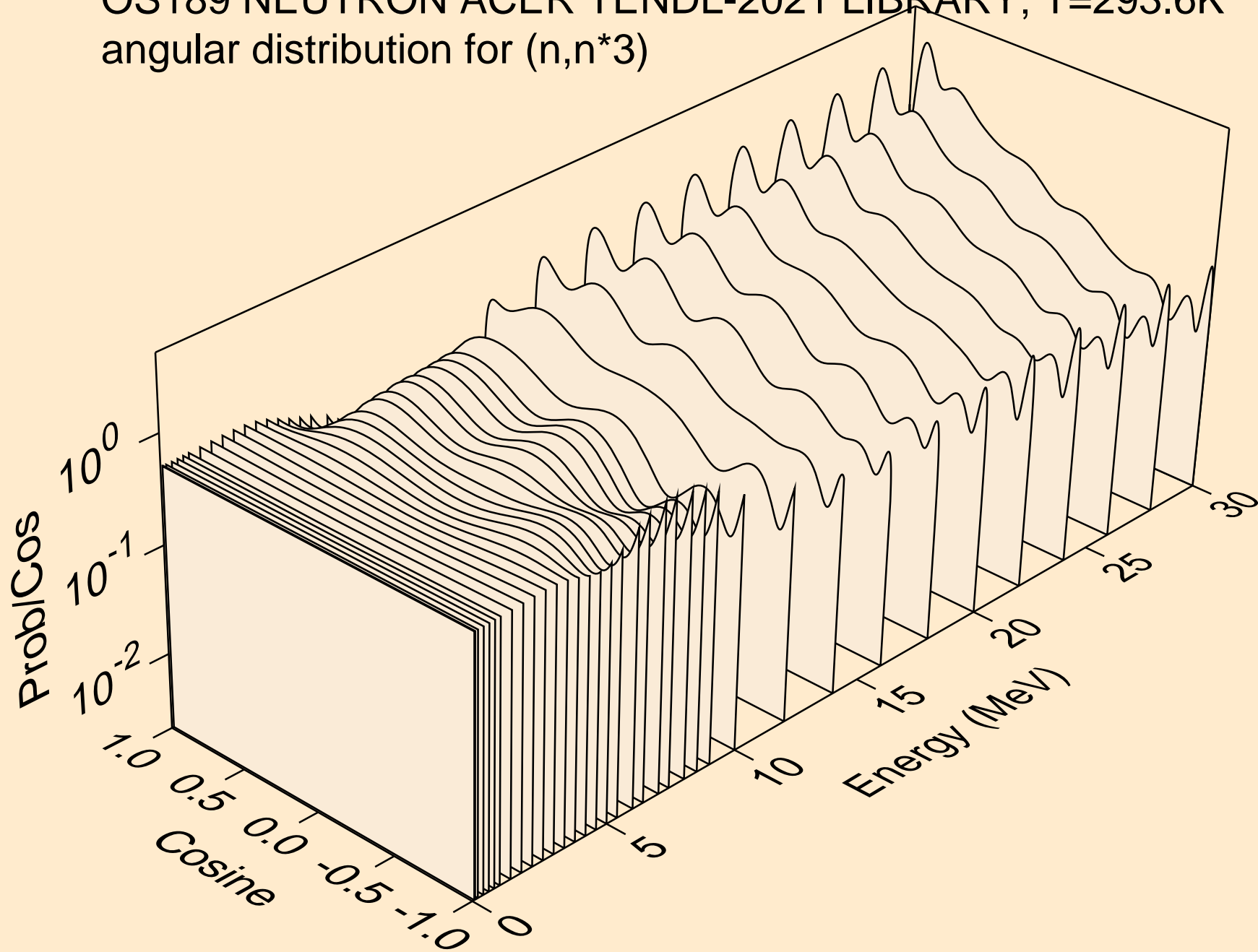




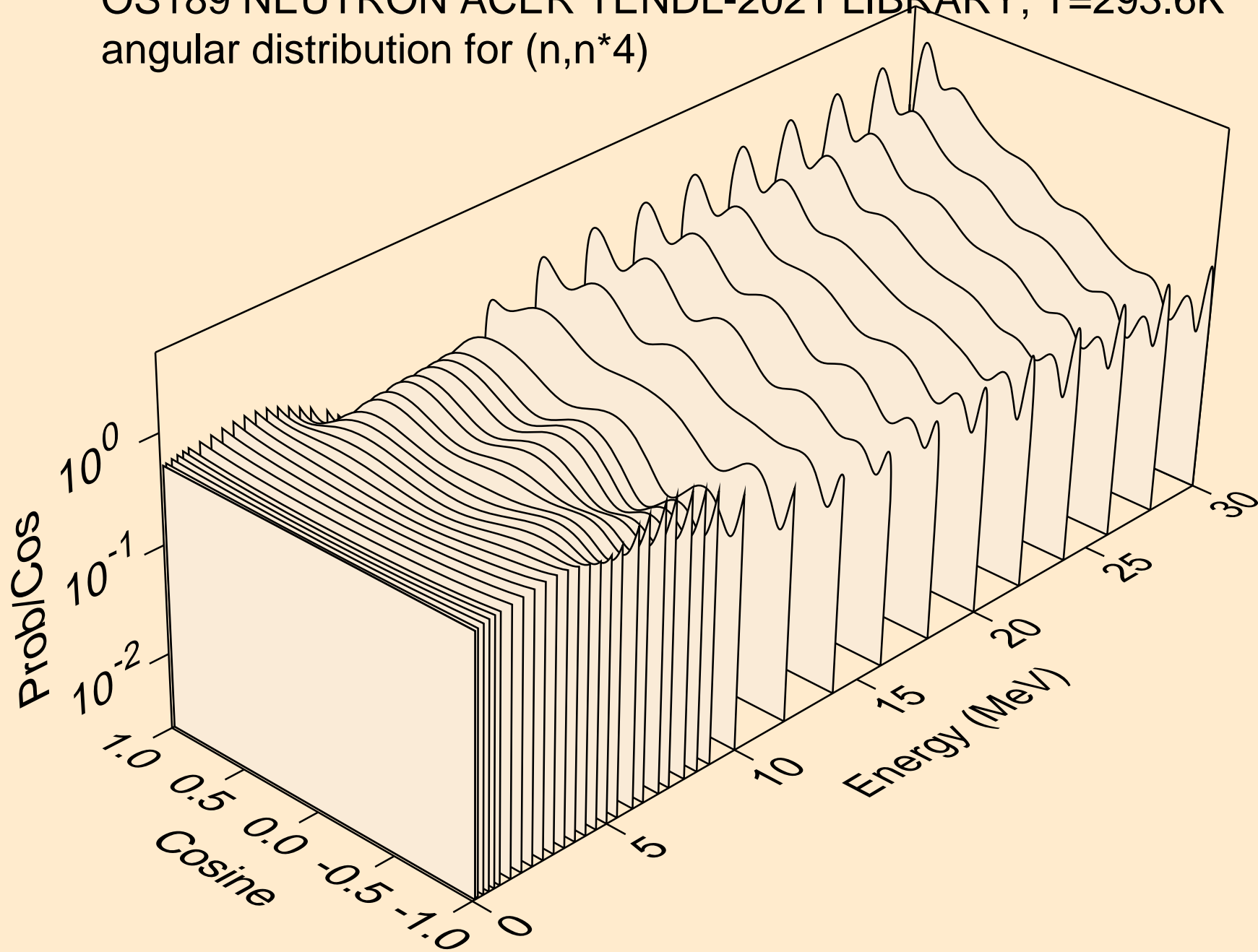
OS189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for (n,n\*2)



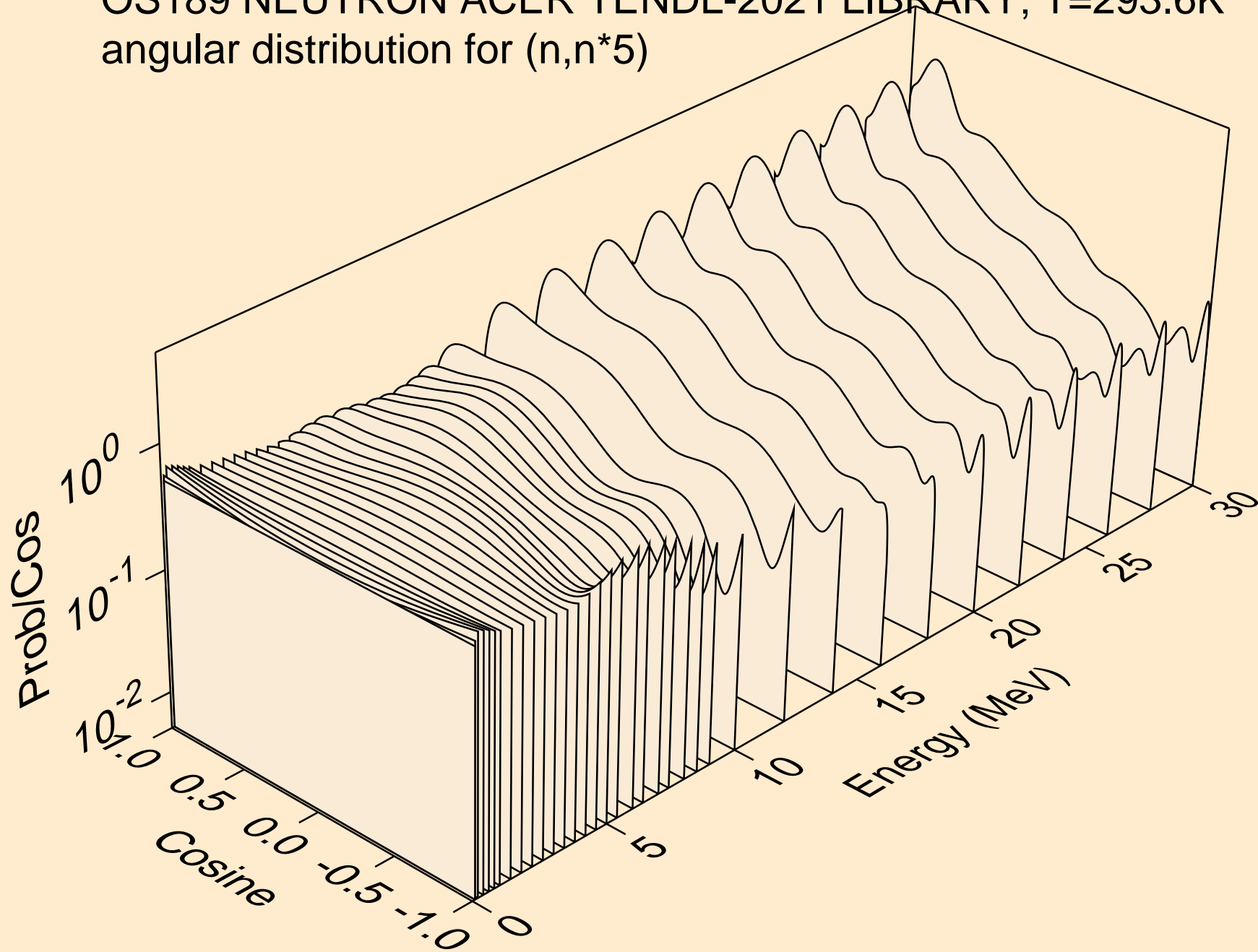
OS189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for (n,n\*3)



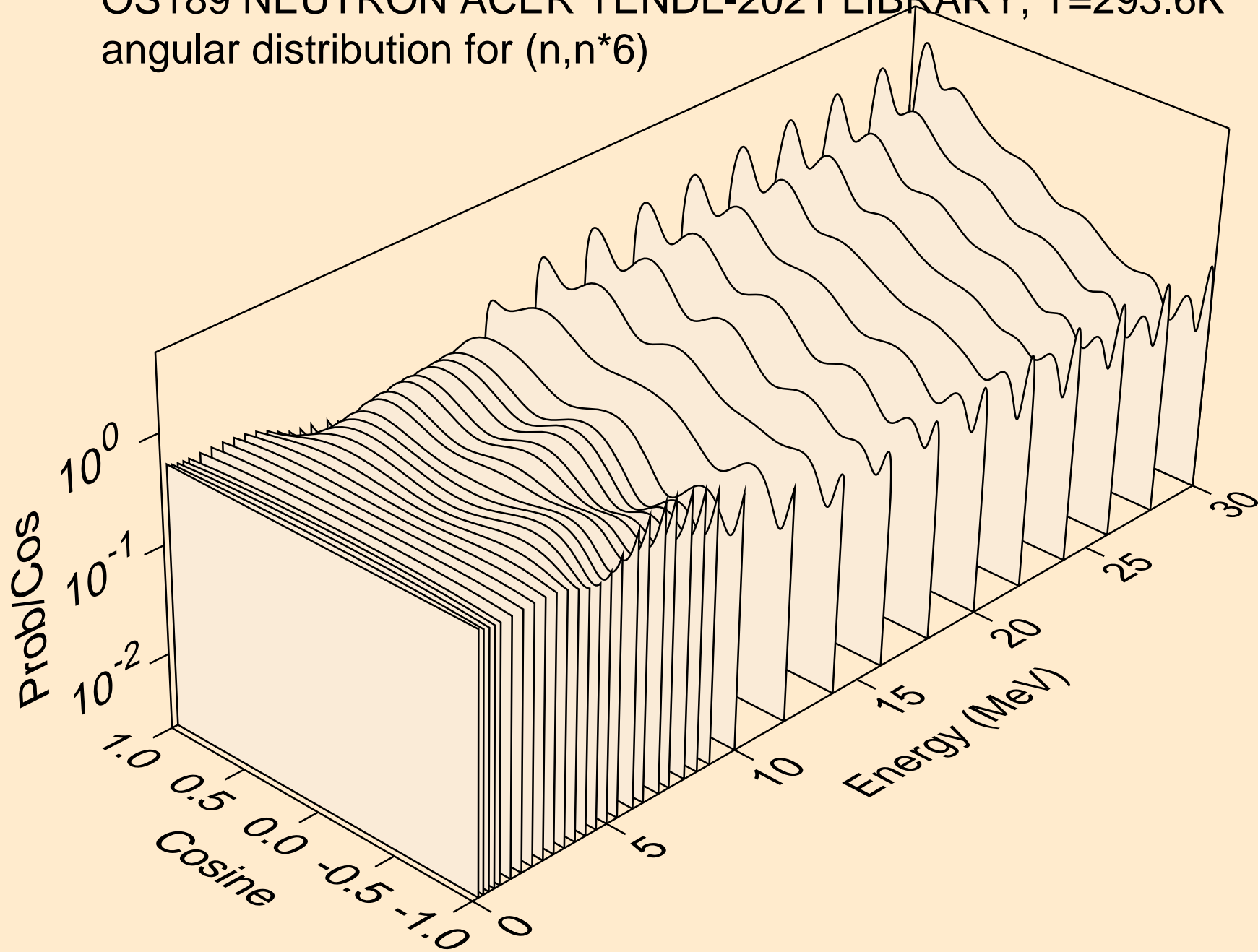
OS189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for (n,n\*4)



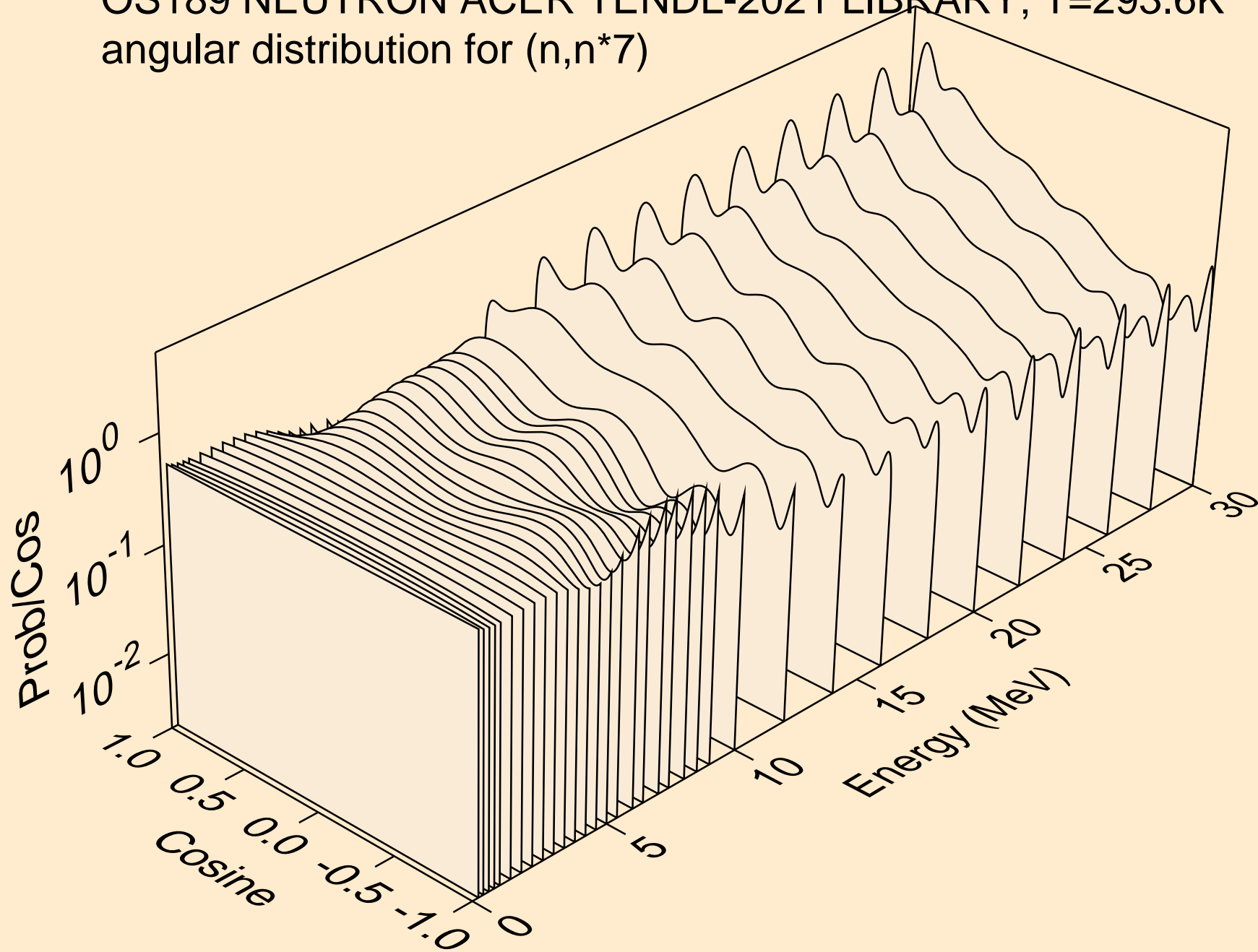
OS189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for (n,n\*5)



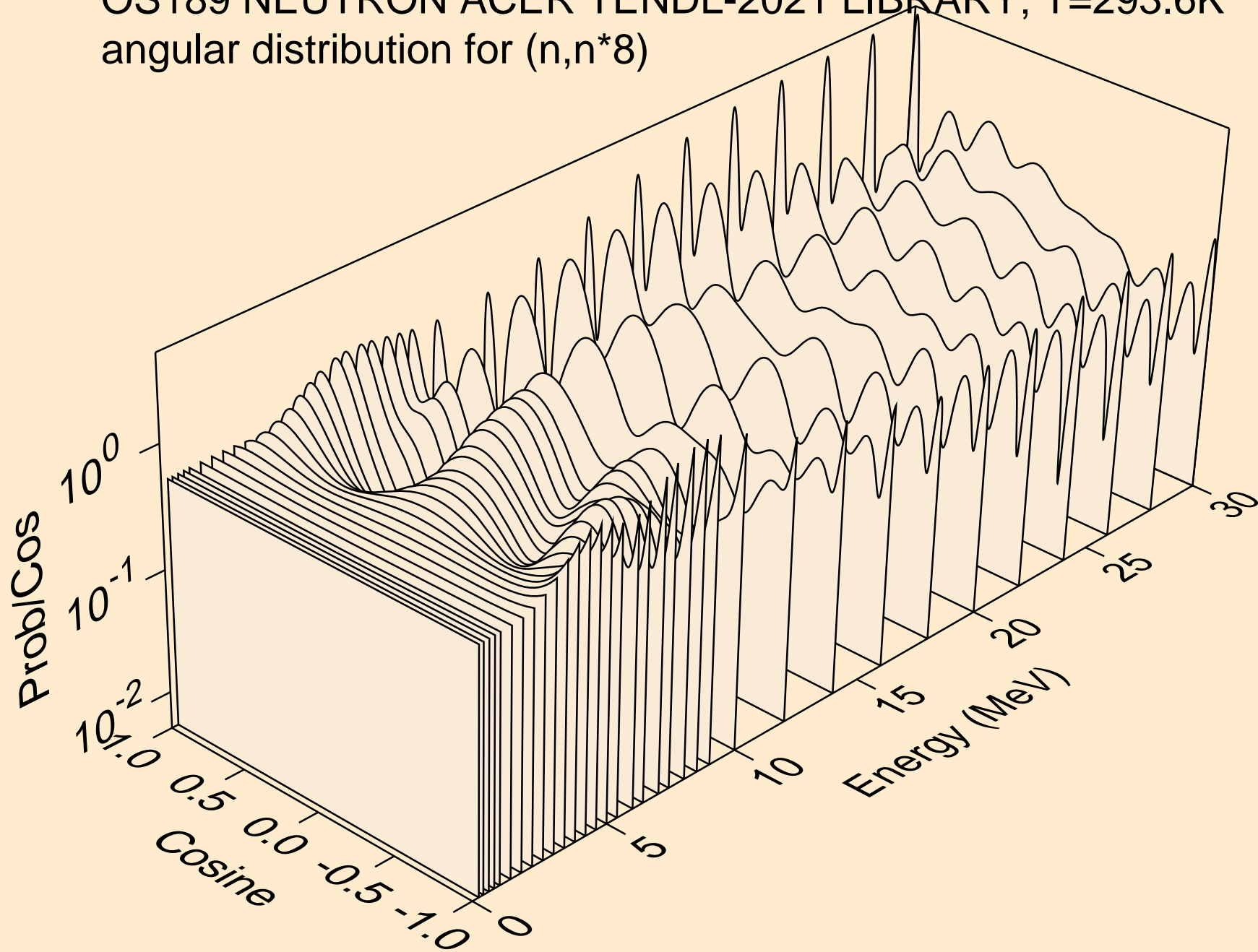
OS189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for (n,n\*6)



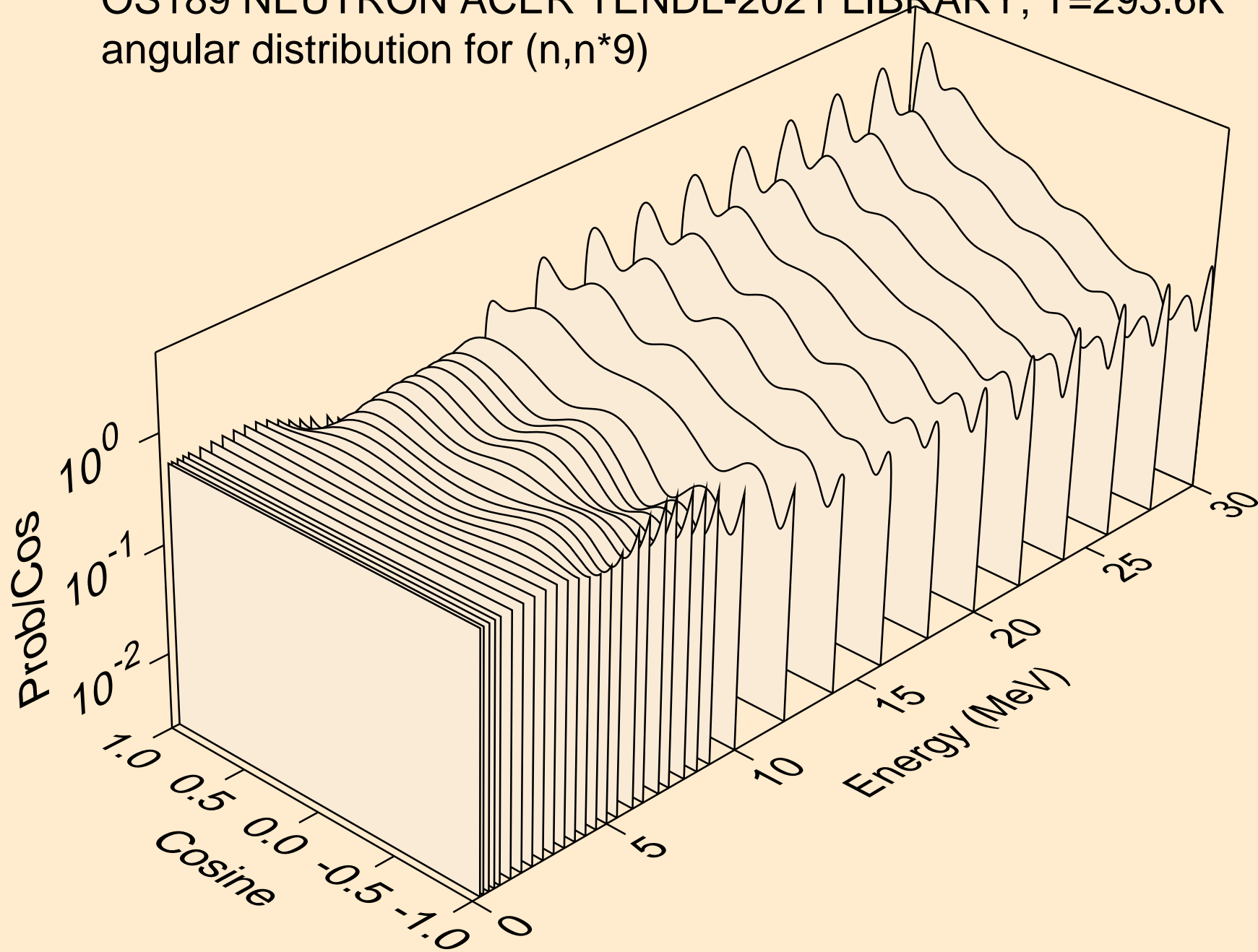
OS189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for (n,n\*7)



OS189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for (n,n\*8)

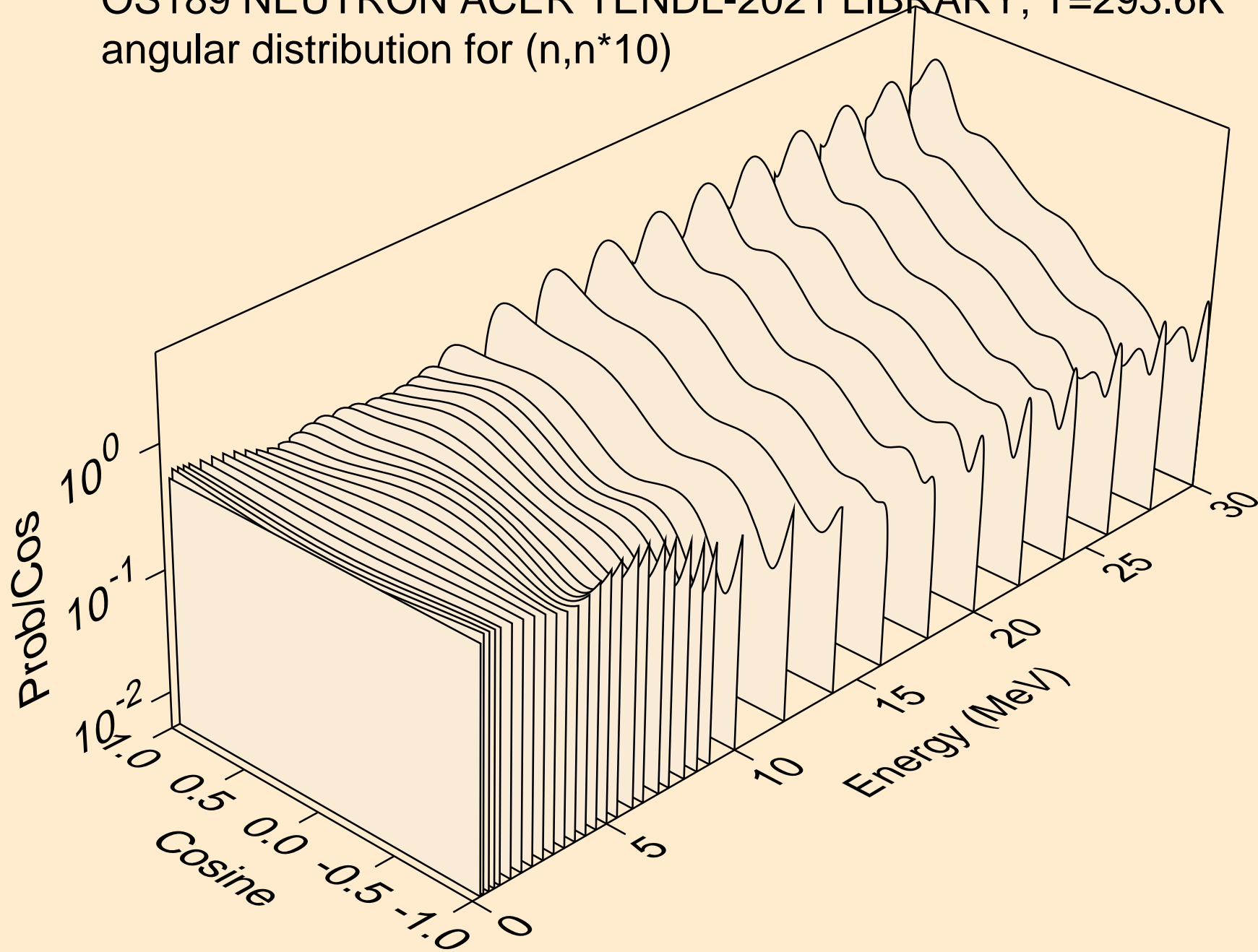


OS189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for (n,n\*9)

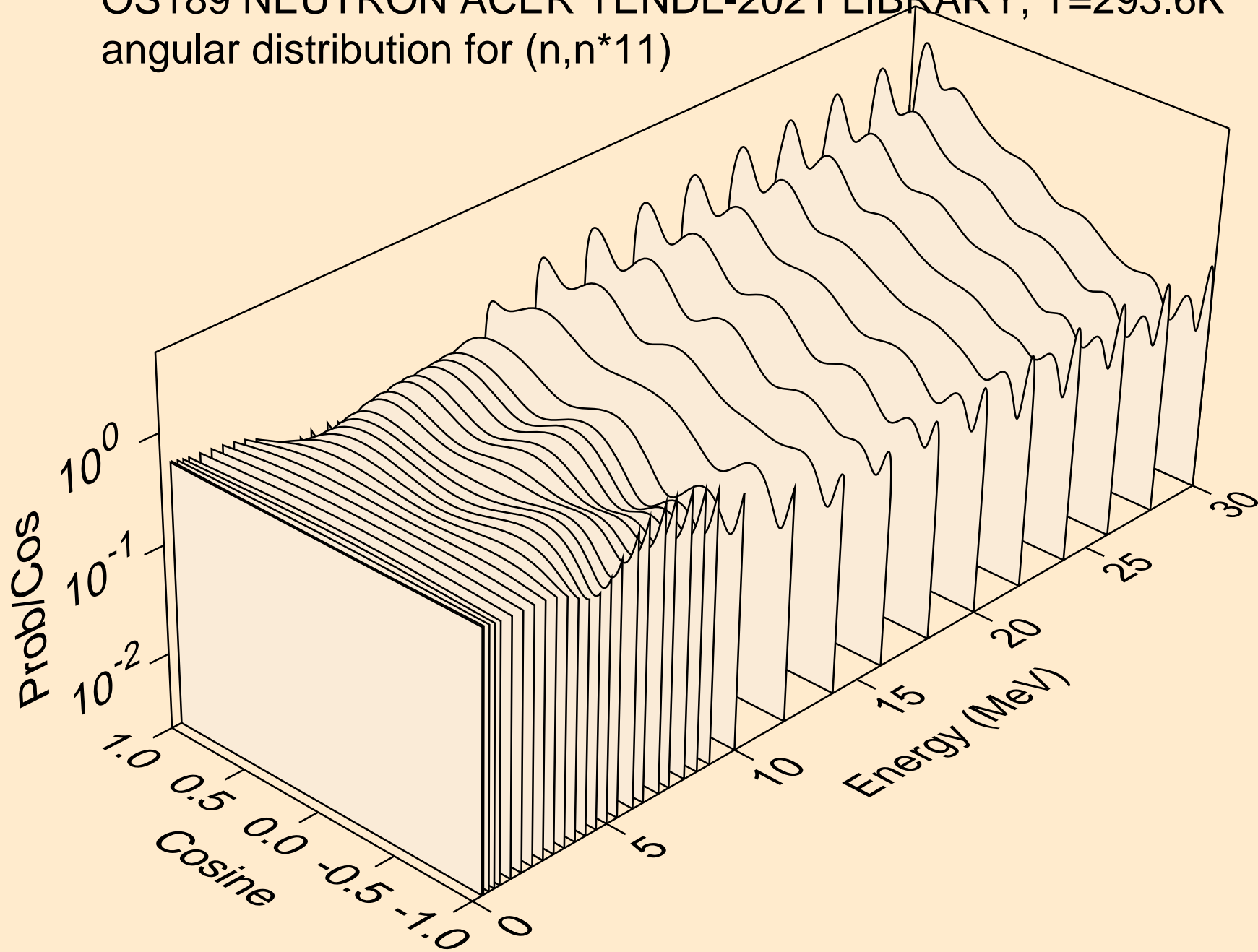




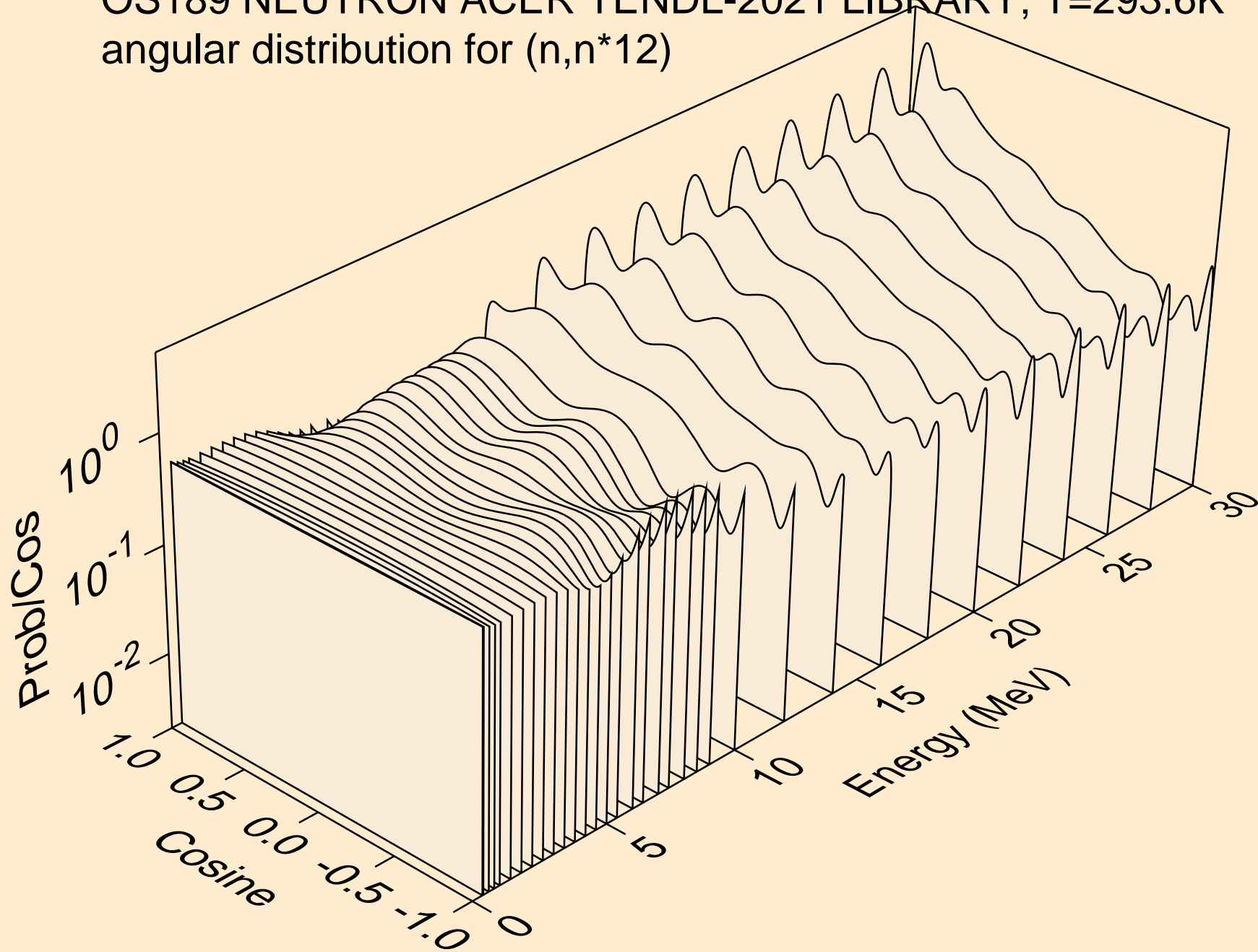
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angular distribution for (n,n\*10)



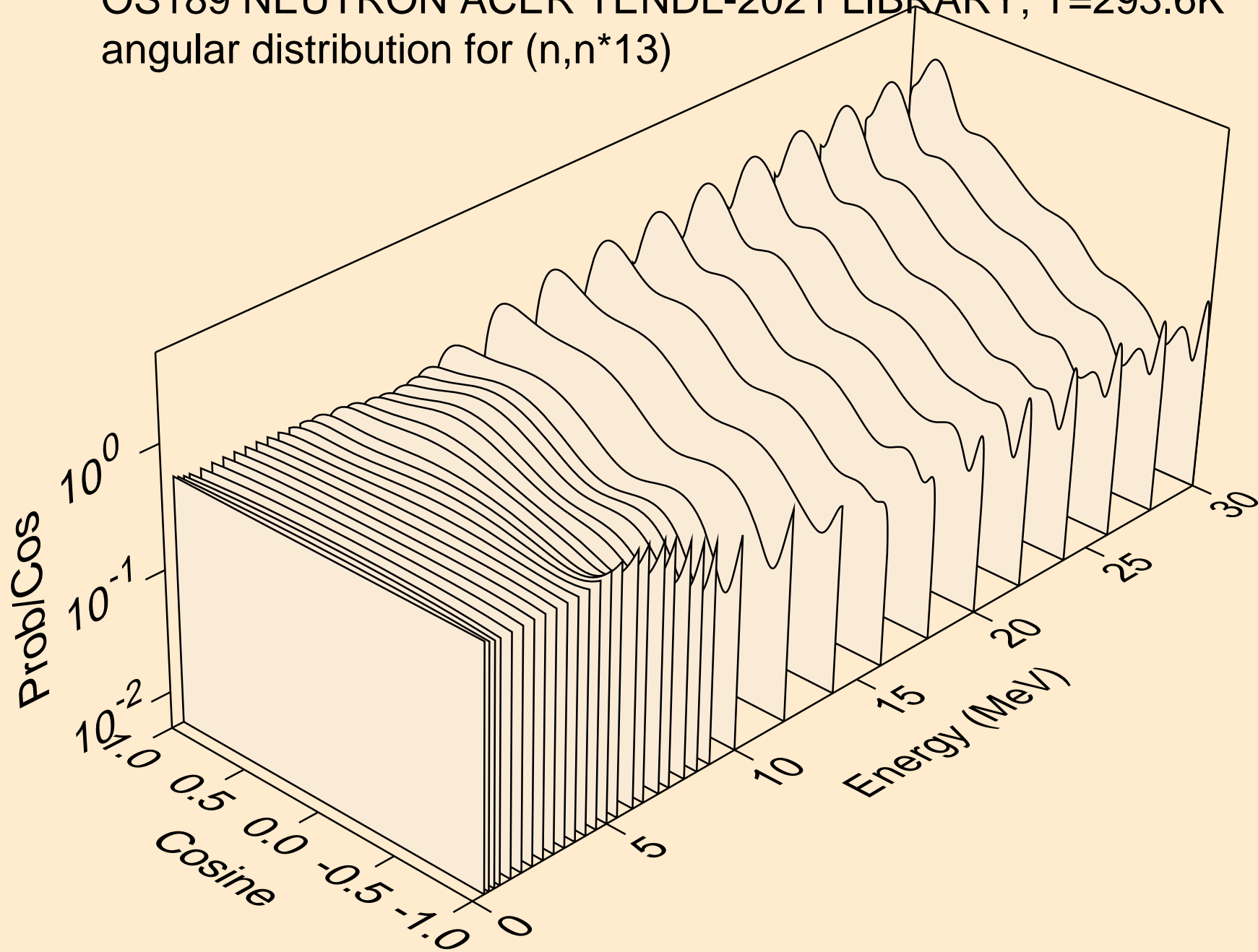
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angular distribution for (n,n\*11)



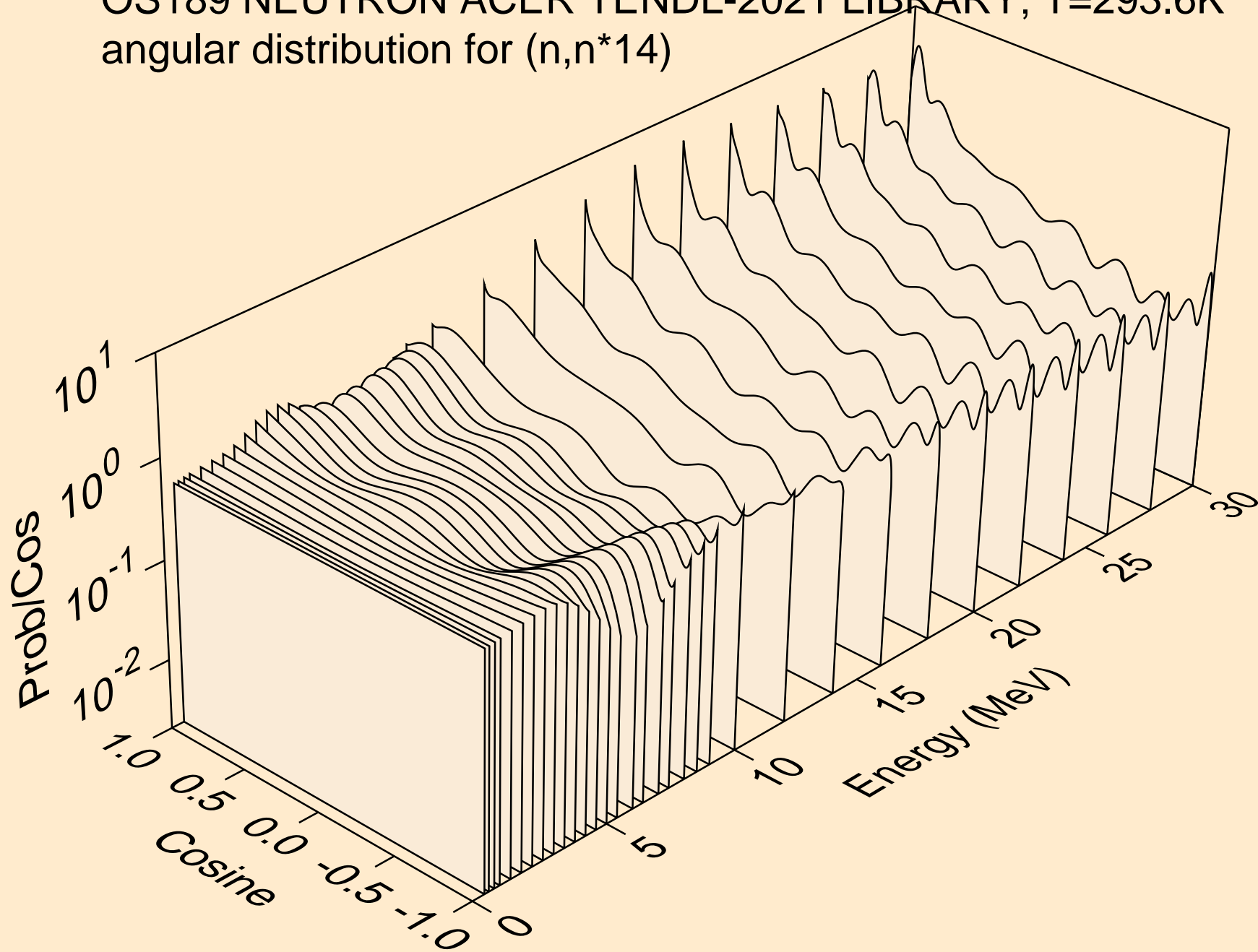
OS189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for (n,n\*12)



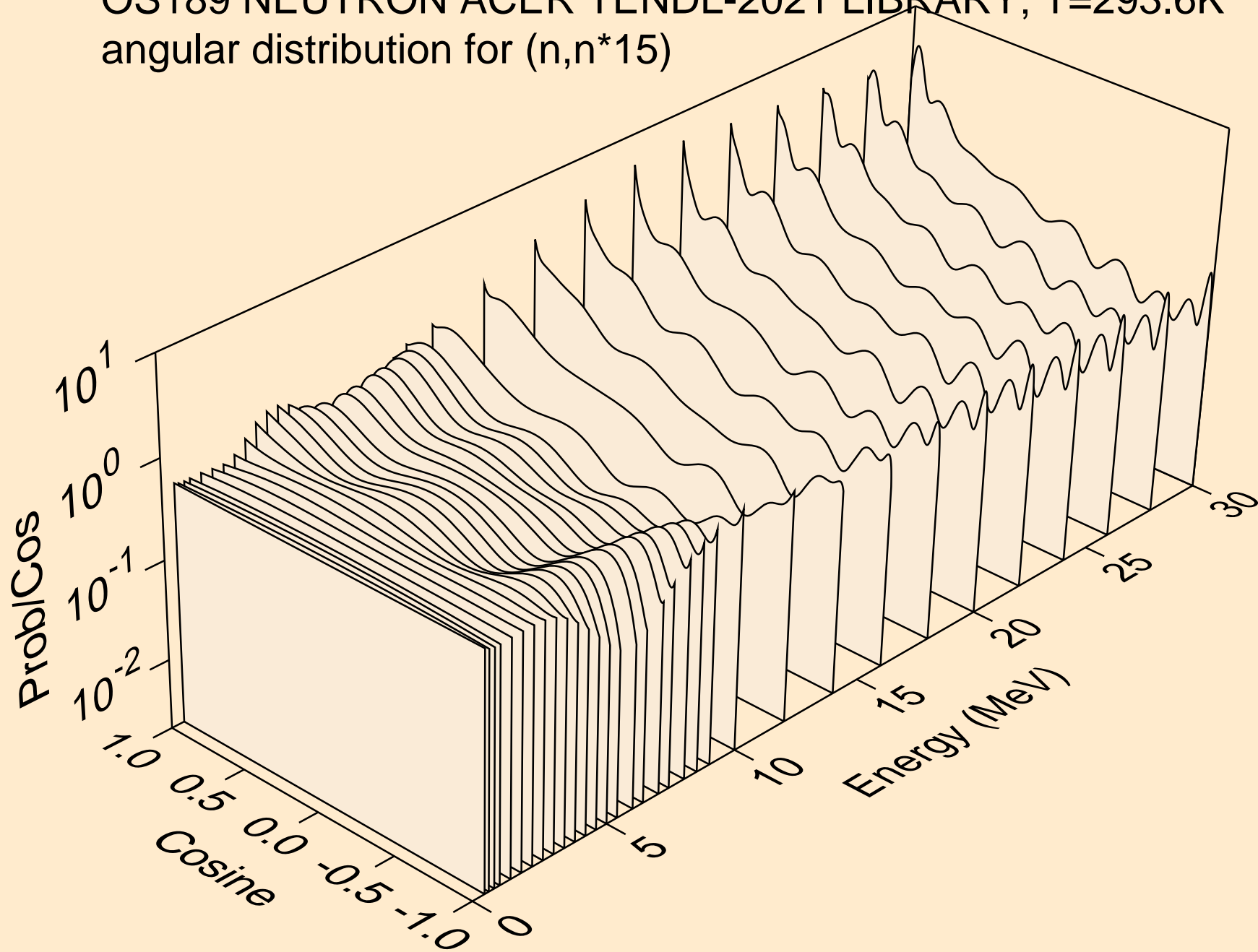
OS189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for (n,n\*13)



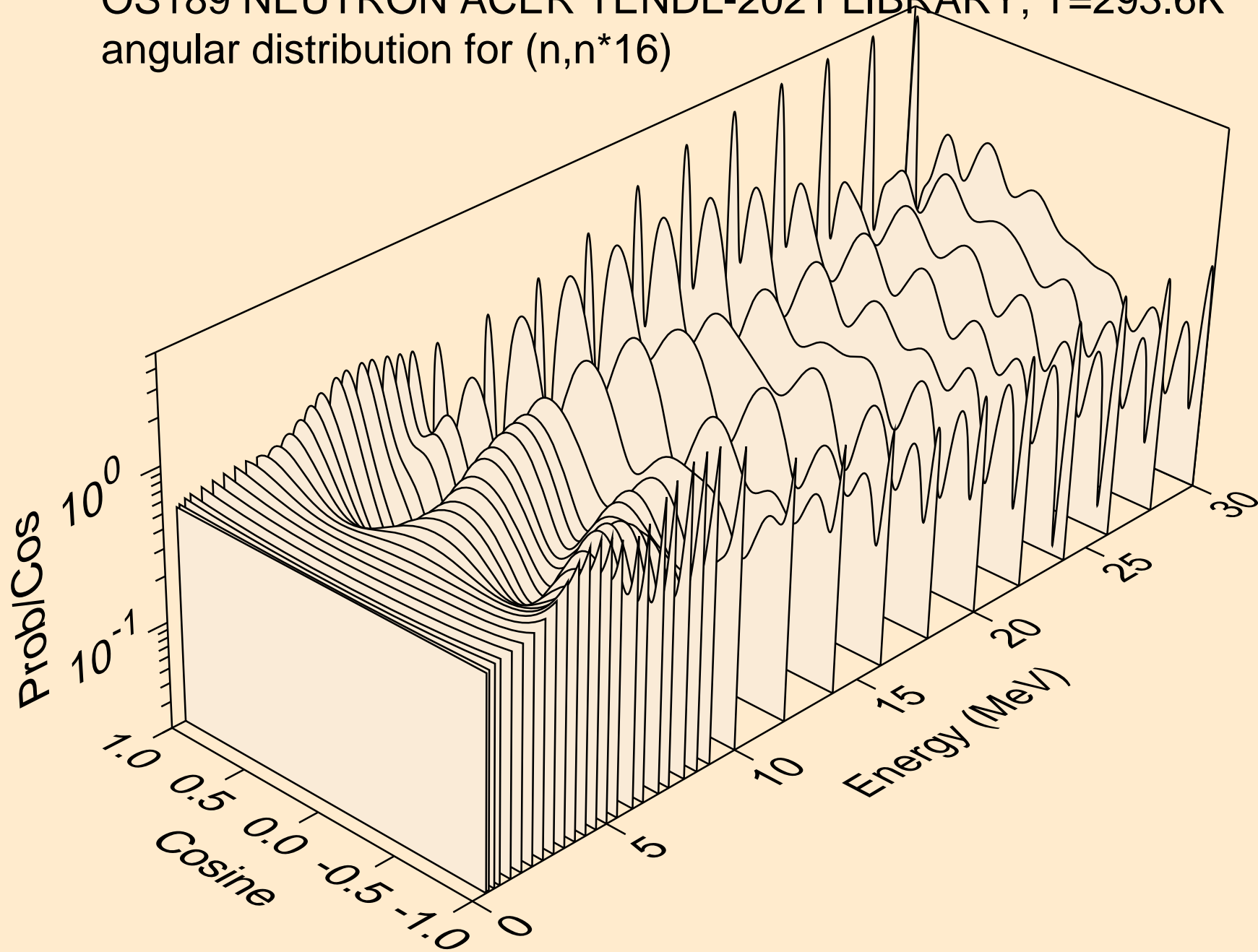
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angular distribution for (n,n\*14)



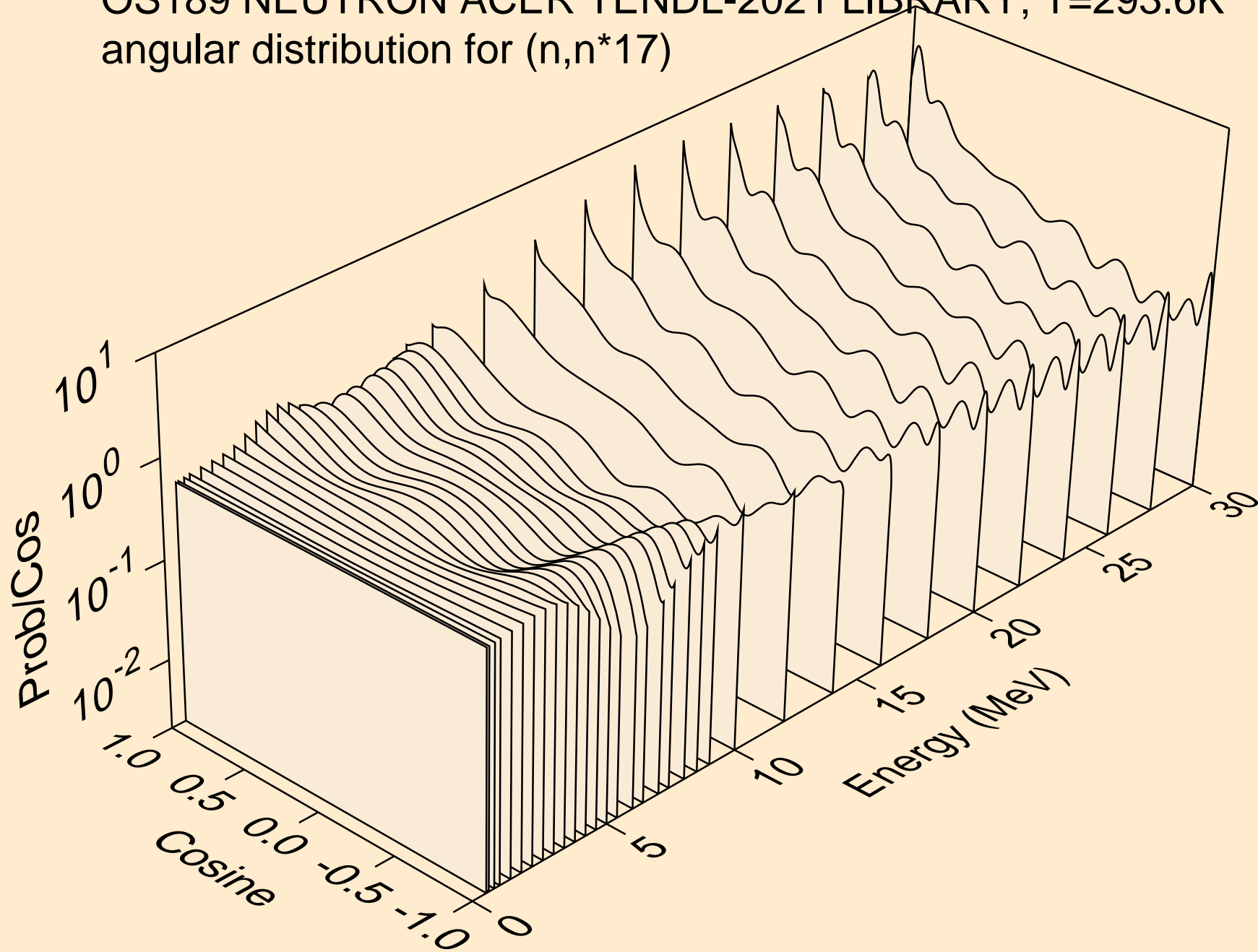
OS189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for (n,n\*15)



OS189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for (n,n\*16)

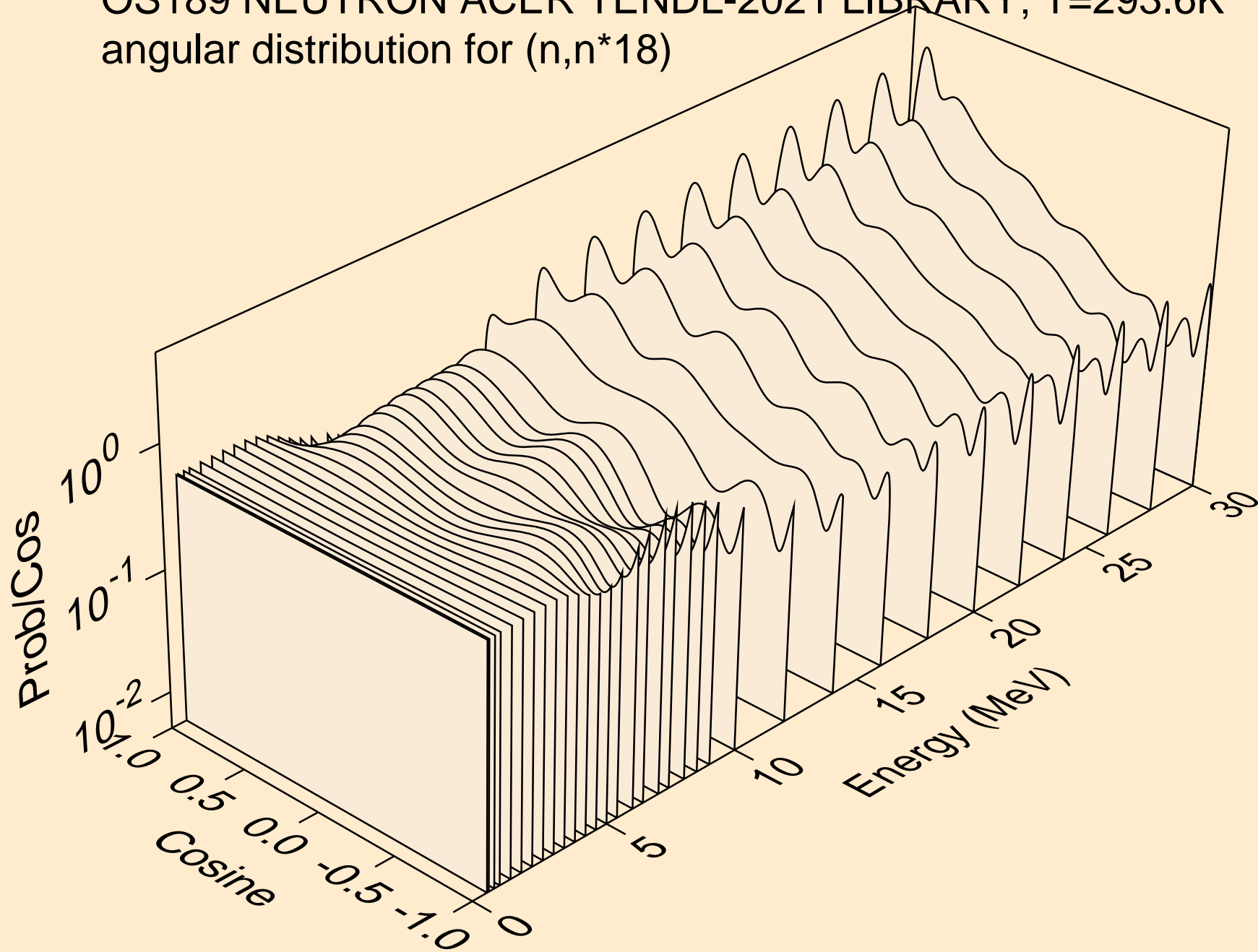


OS189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for (n,n\*17)

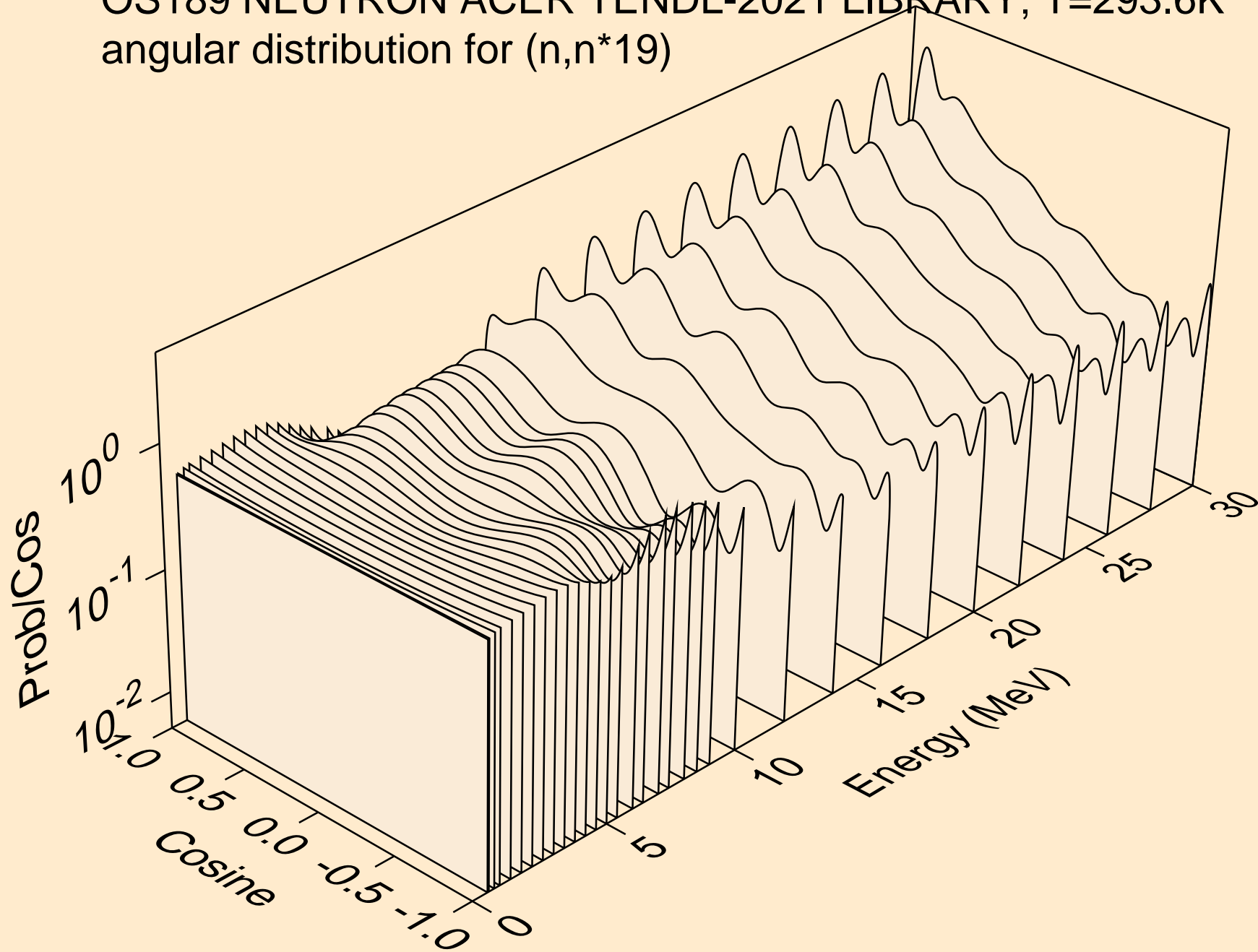




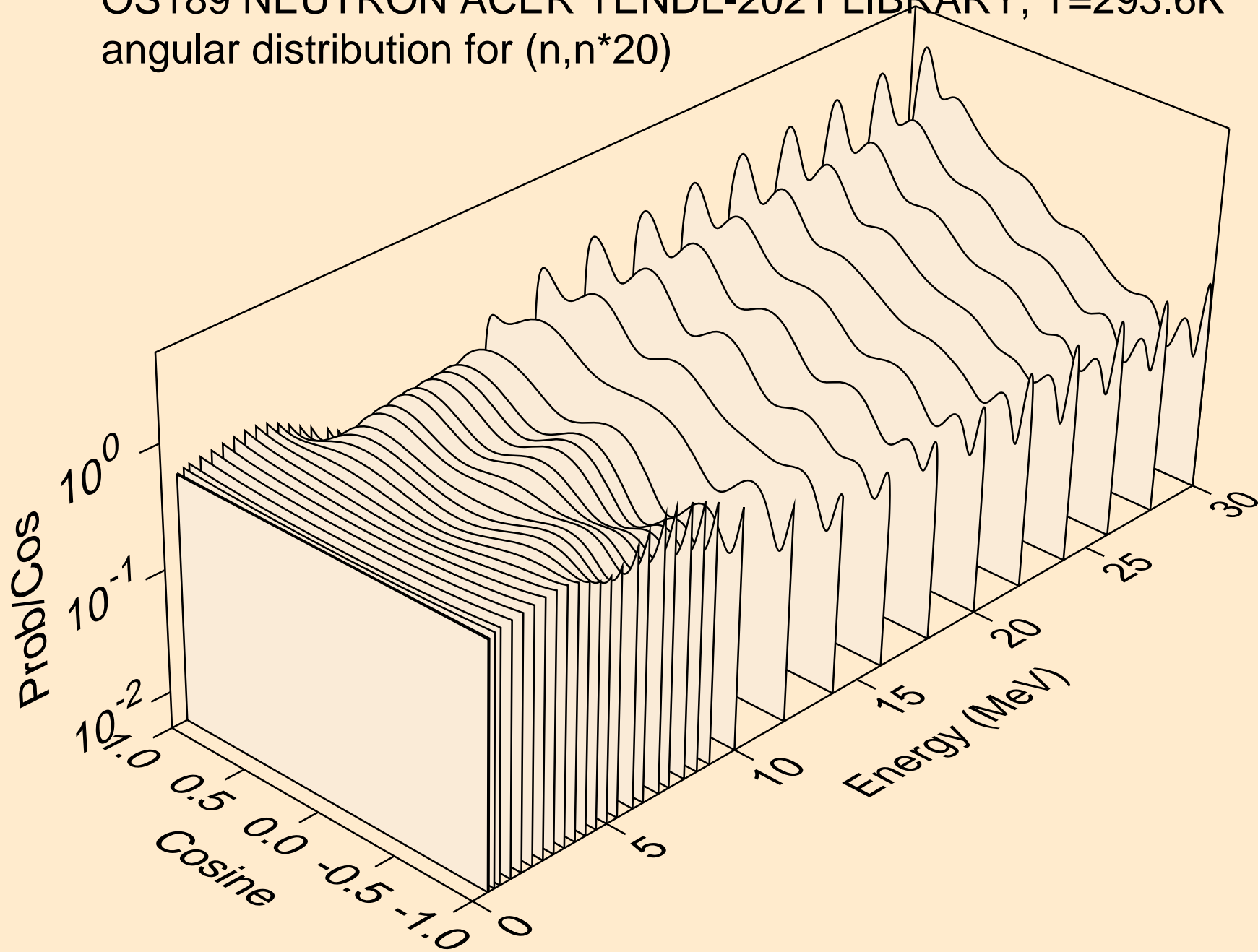
OS189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for (n,n\*18)



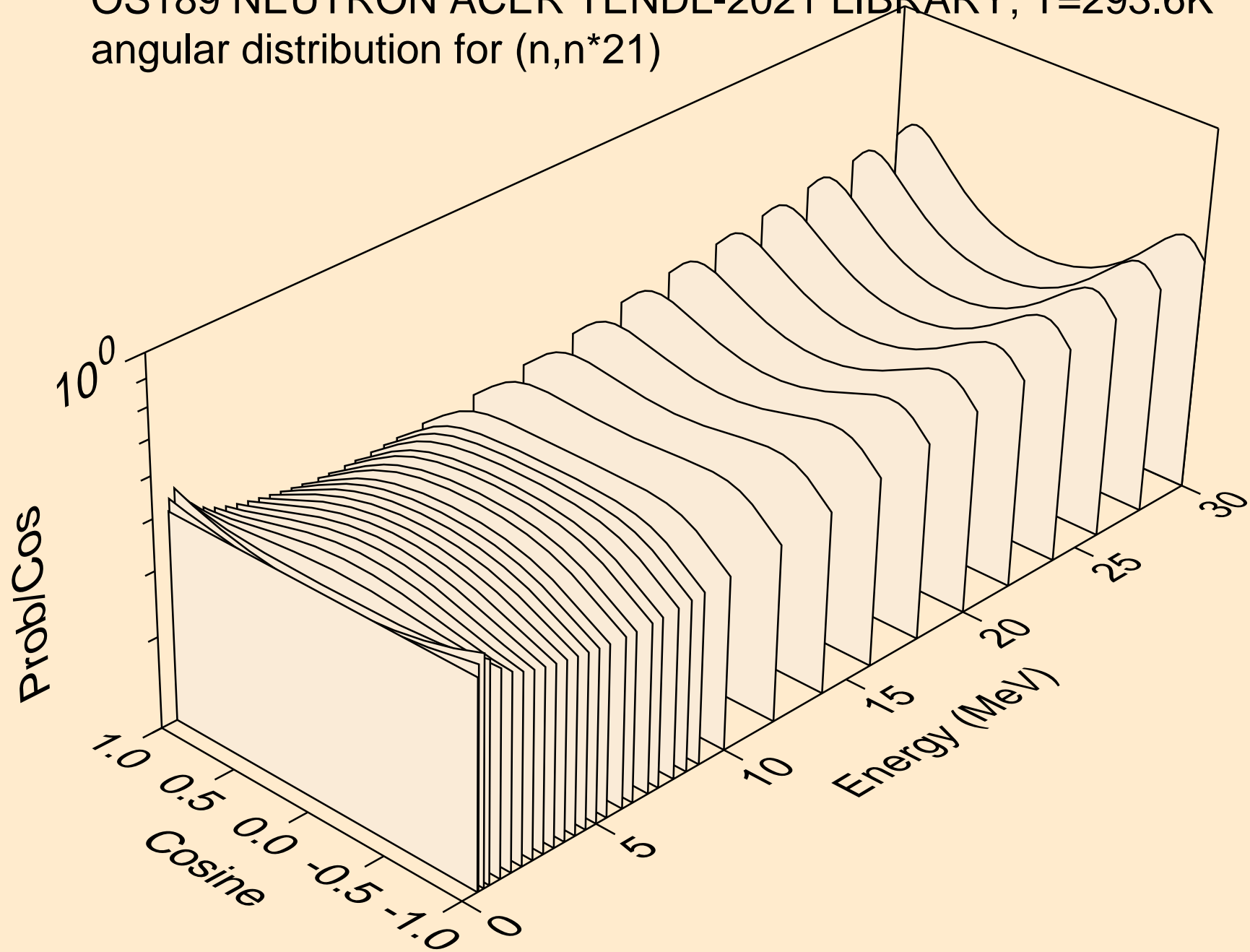
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angular distribution for (n,n\*19)



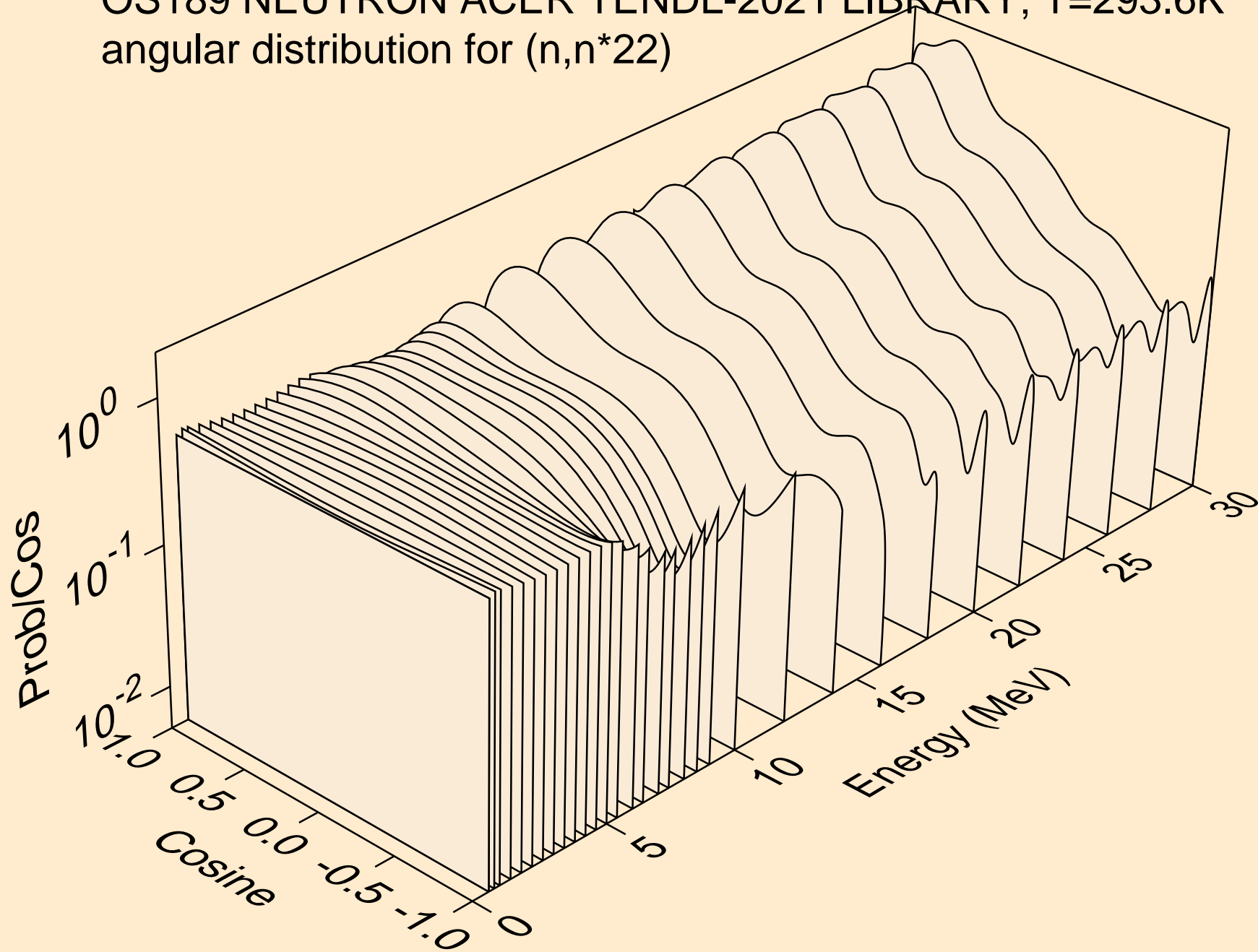
OS189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for (n,n\*20)



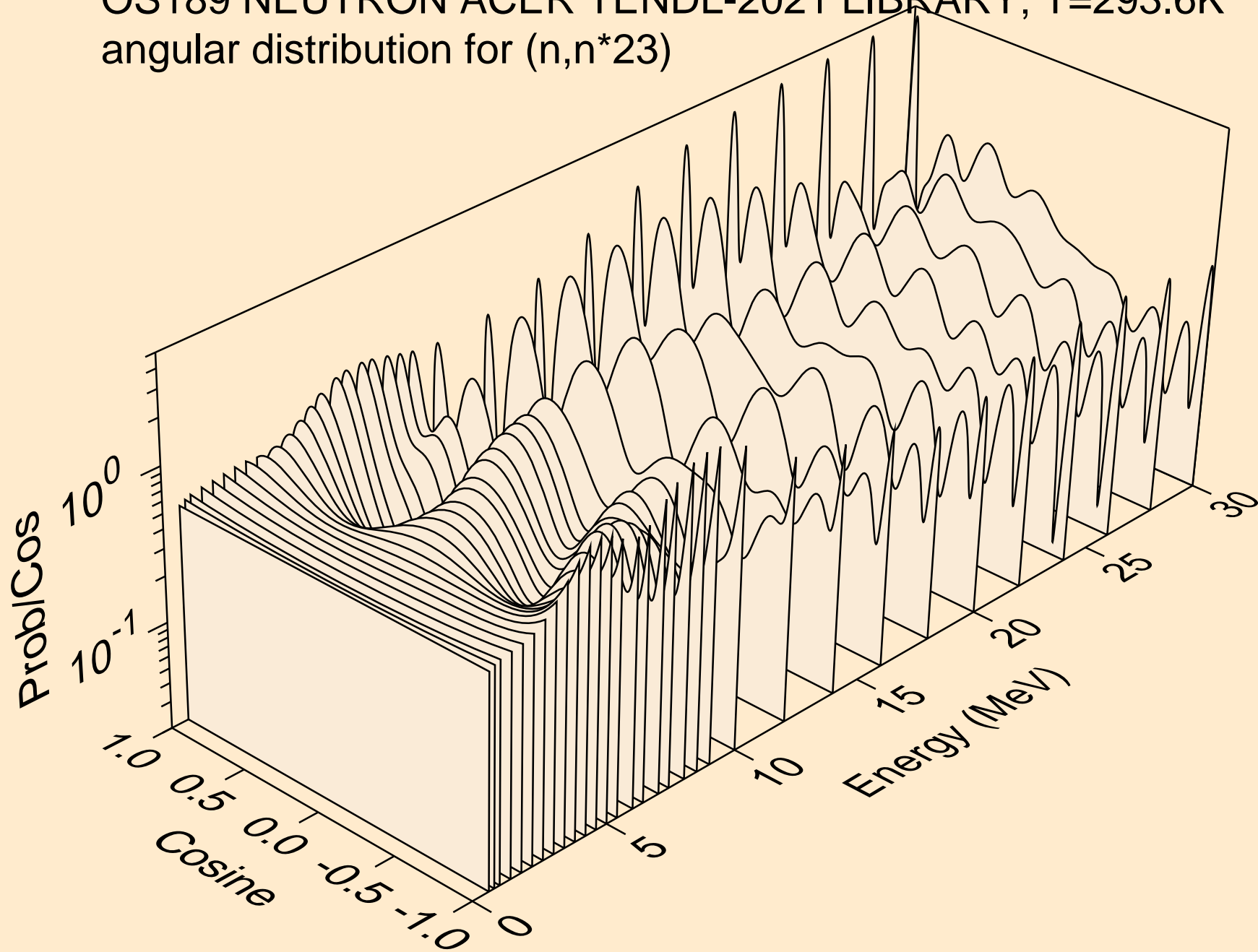
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angular distribution for (n,n\*21)



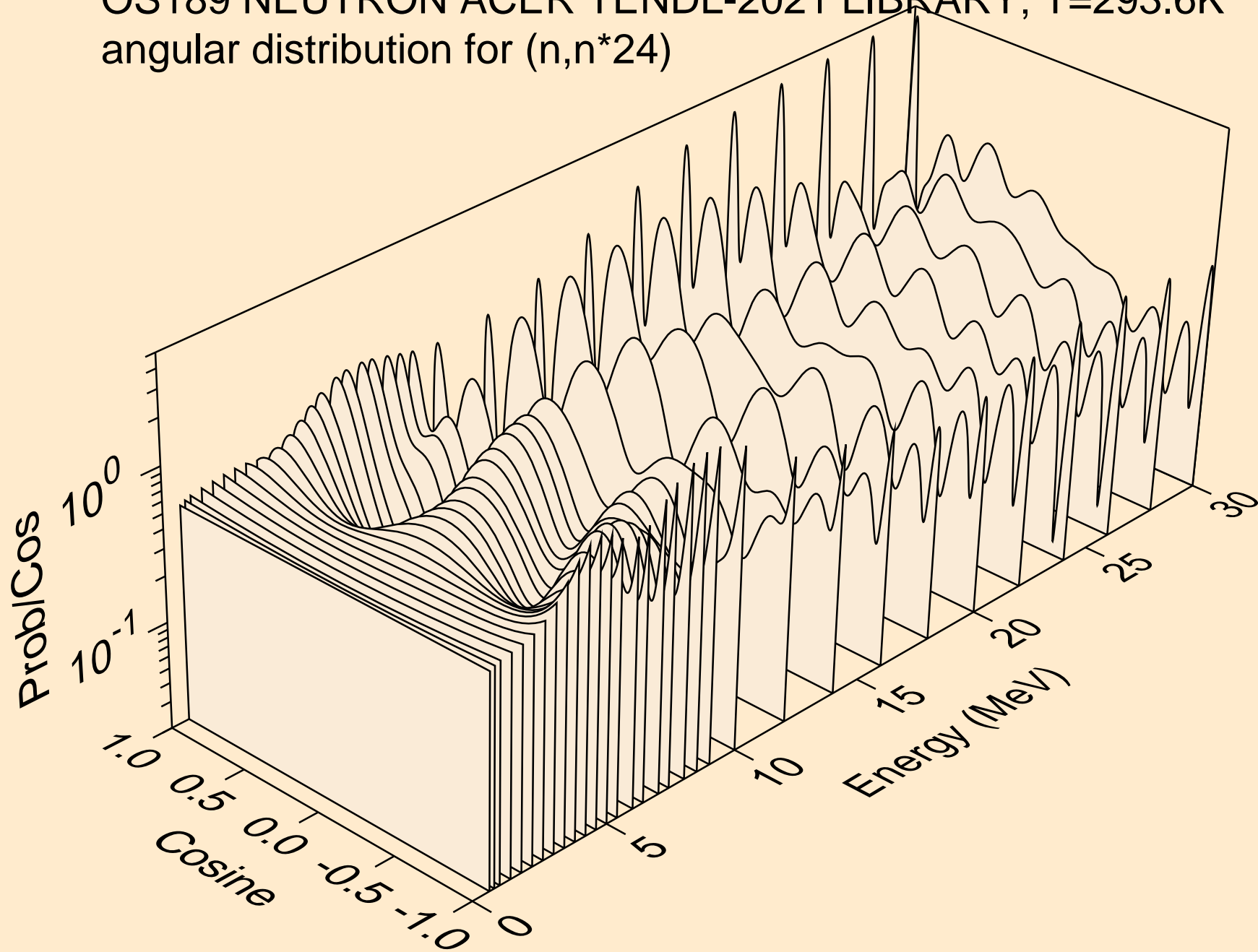
OS189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for (n,n\*22)



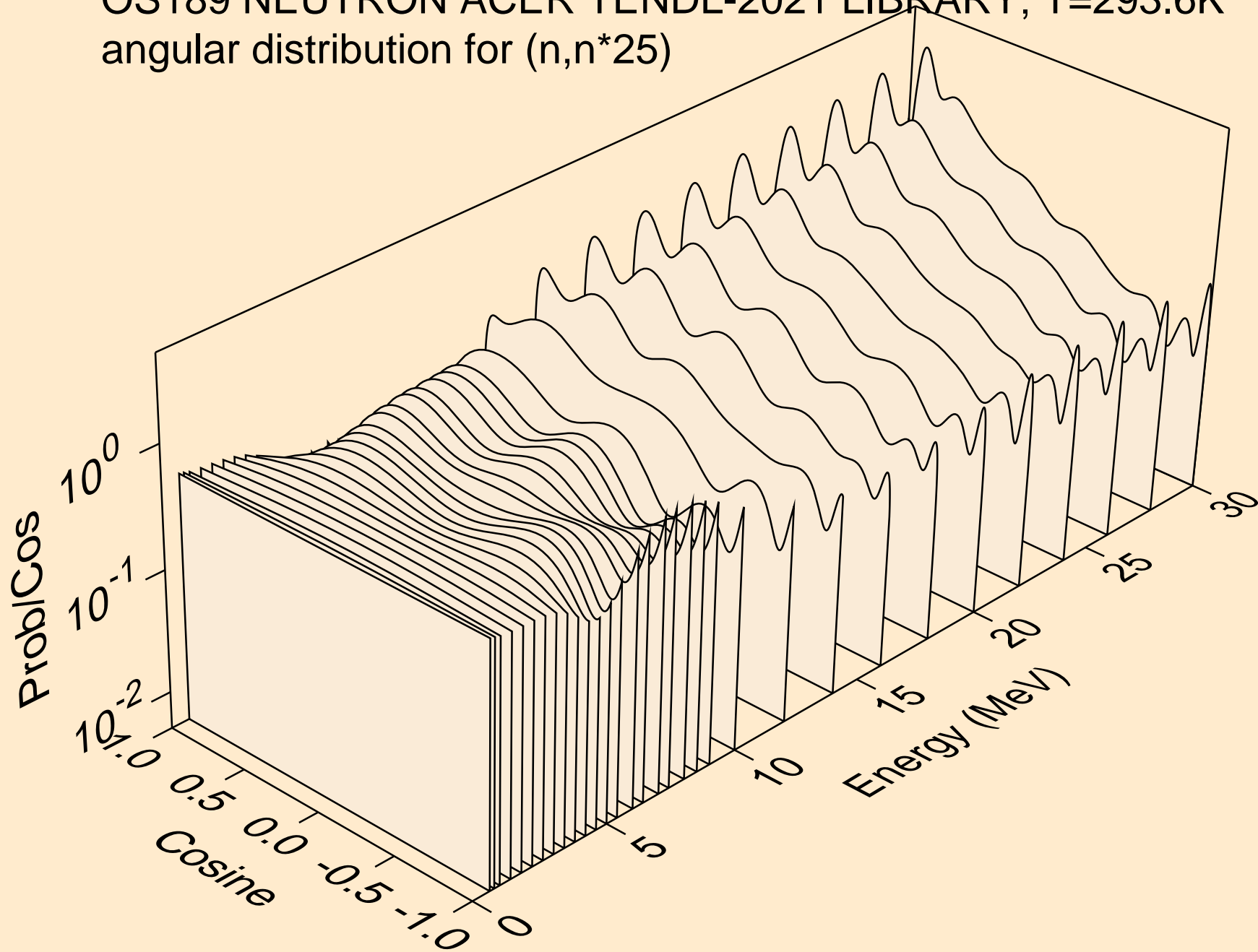
OS189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for (n,n\*23)



OS189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for (n,n\*24)

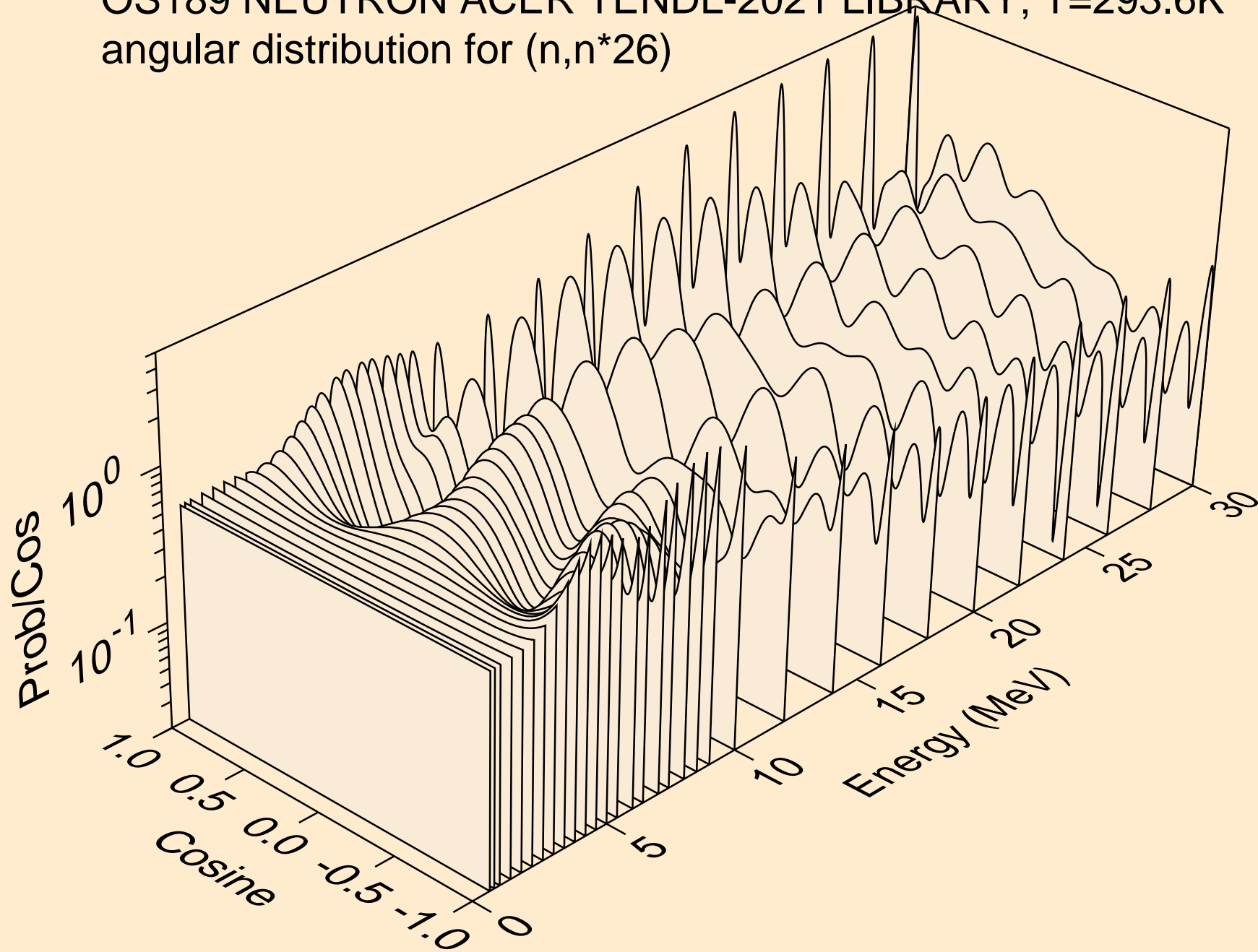


OS189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for (n,n\*25)

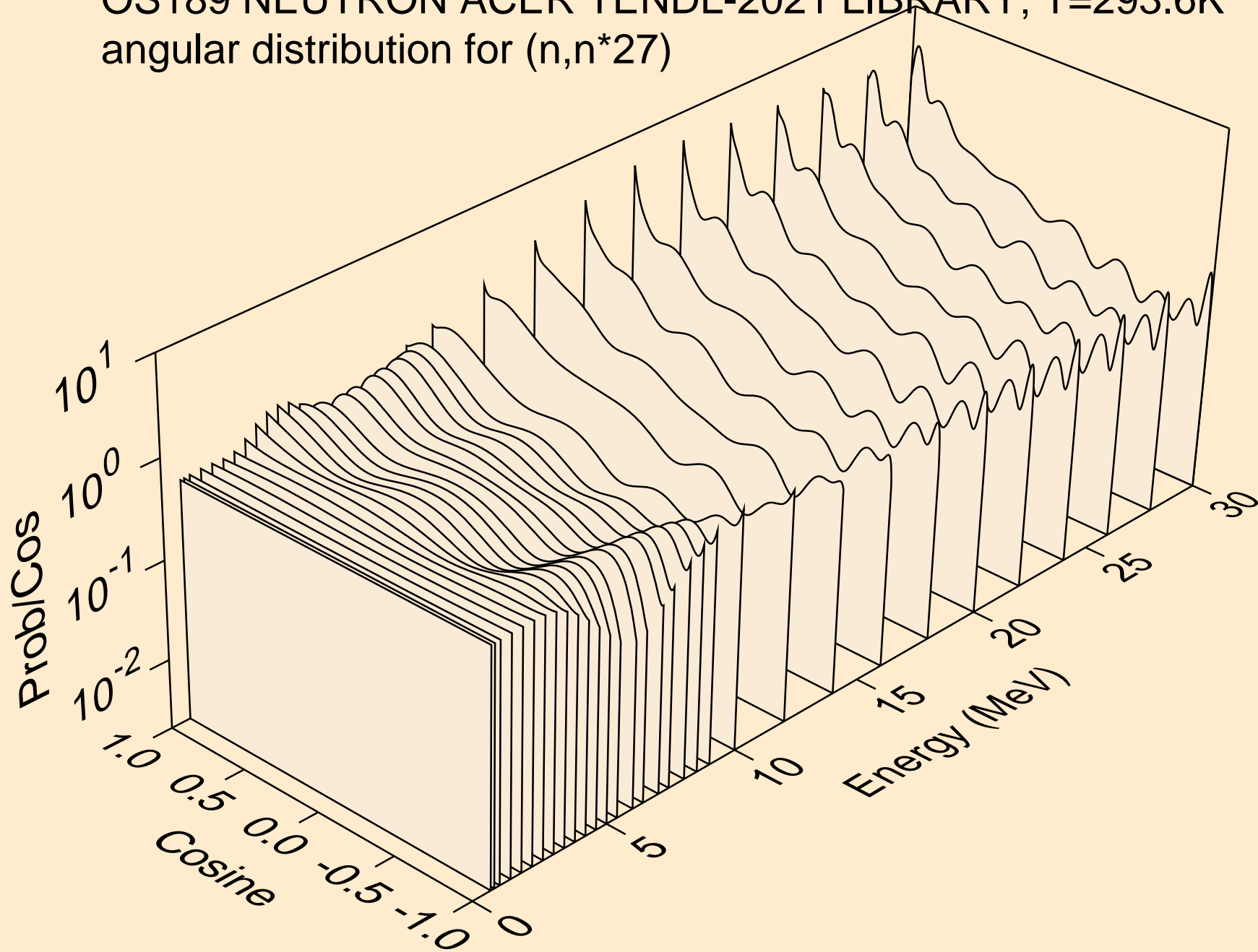




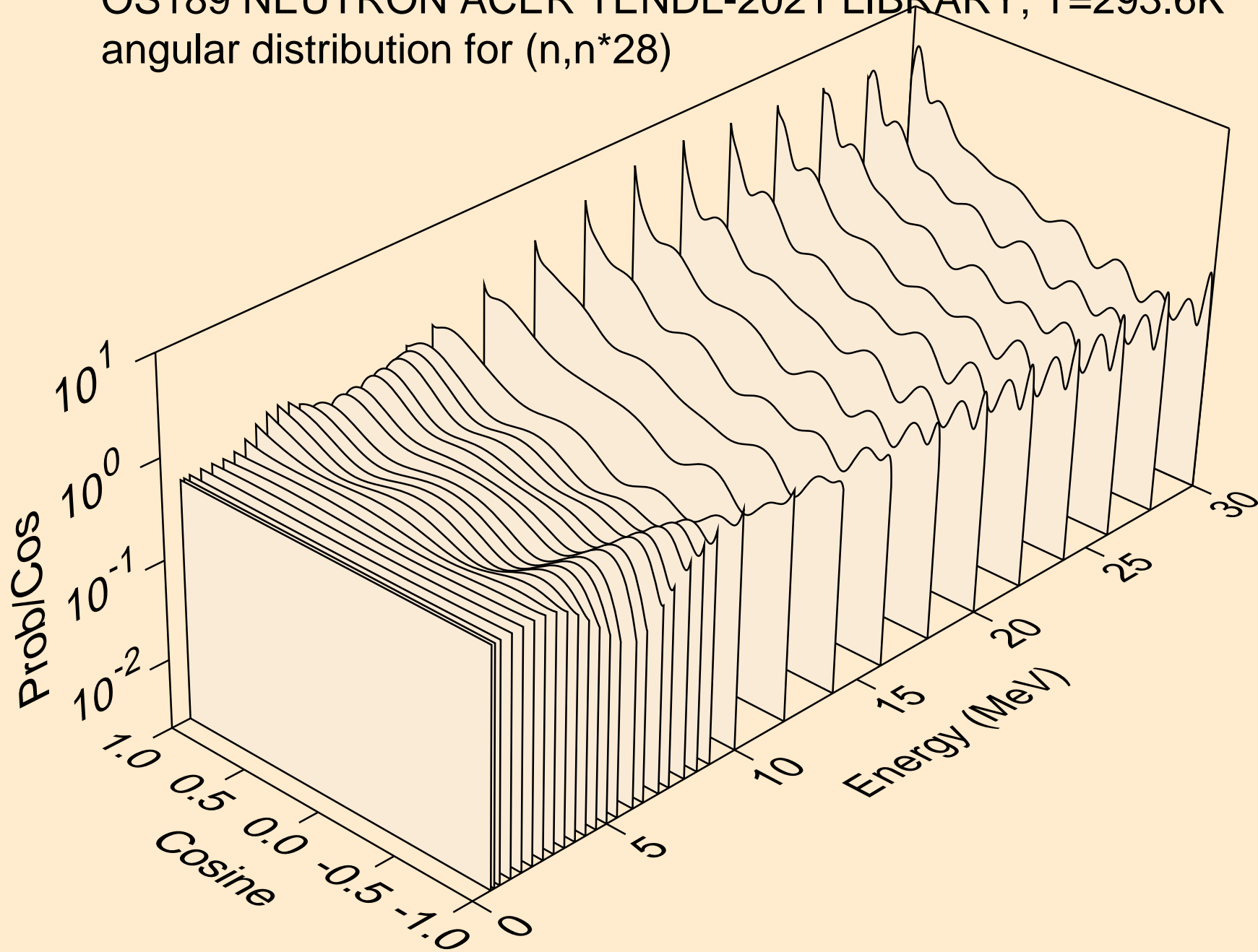
OS189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for (n,n\*26)



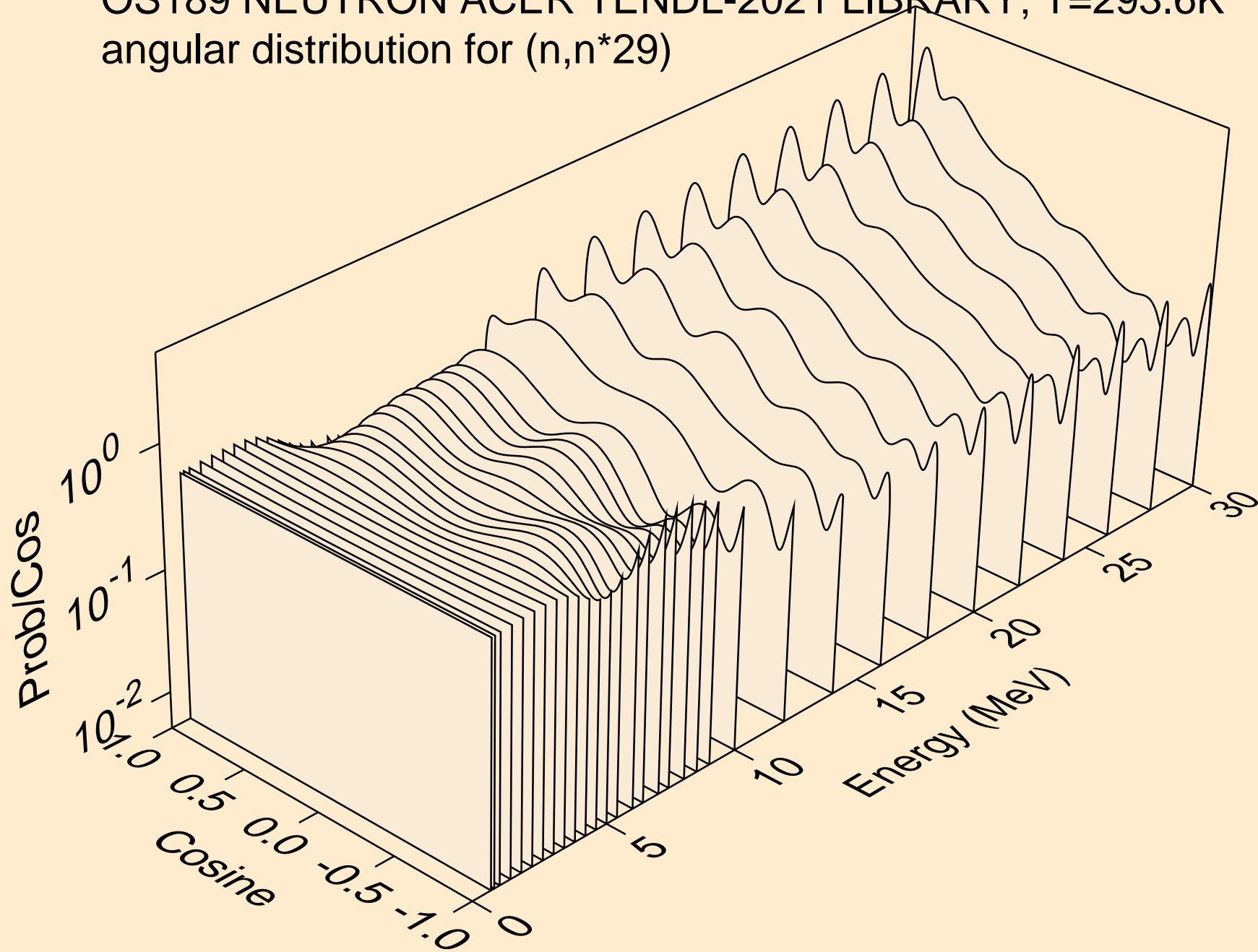
OS189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for (n,n\*27)



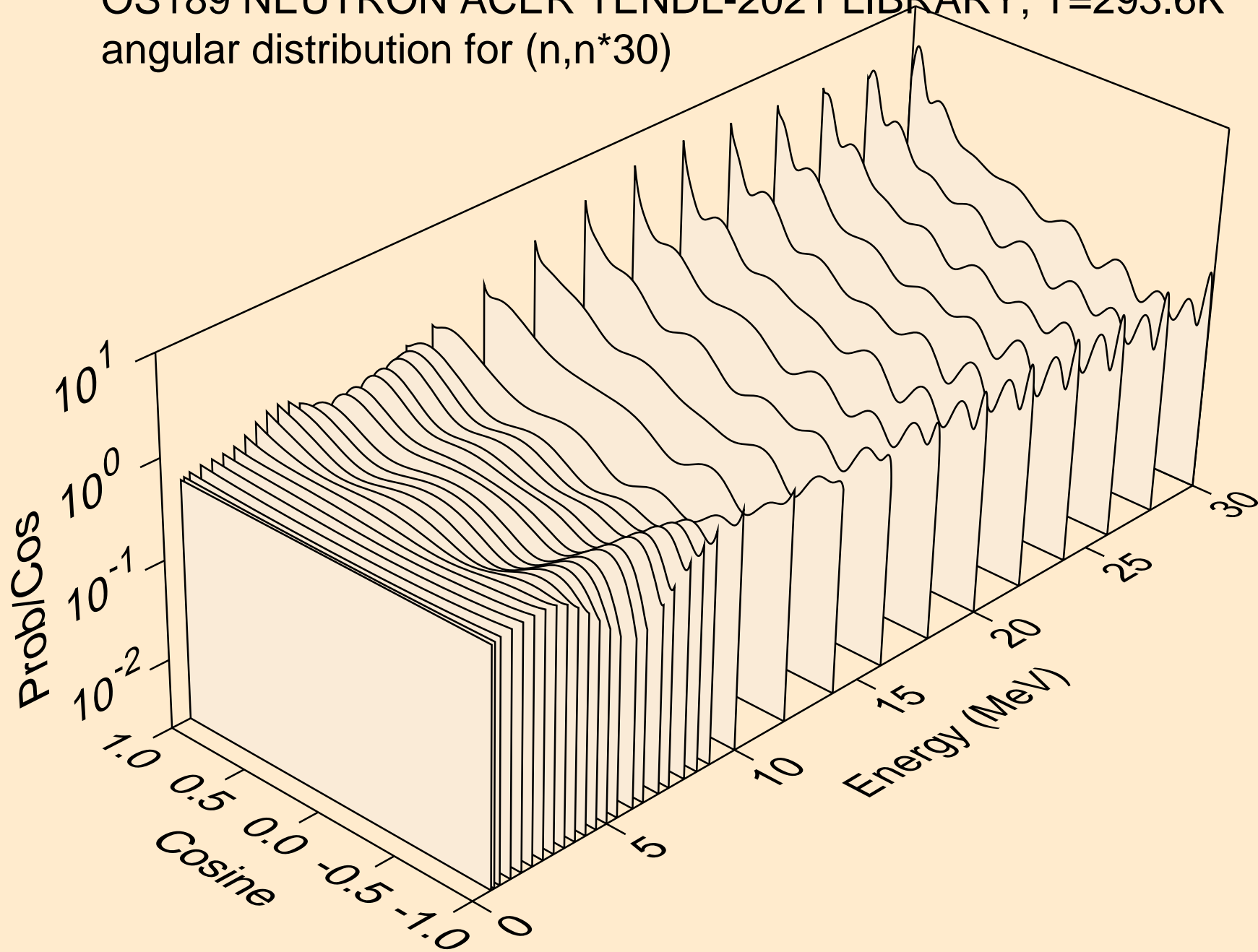
OS189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for (n,n\*28)



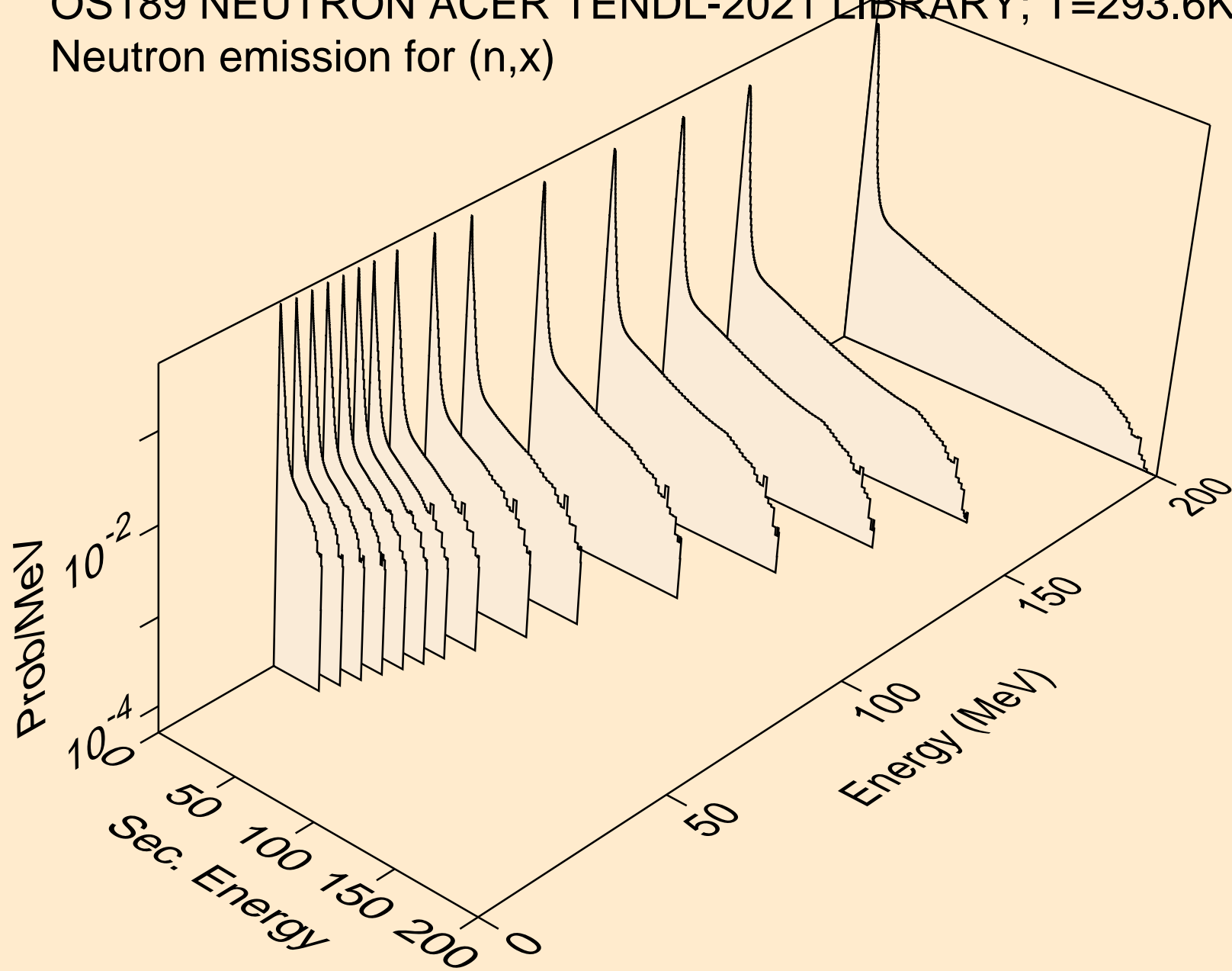
OS189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for (n,n\*29)



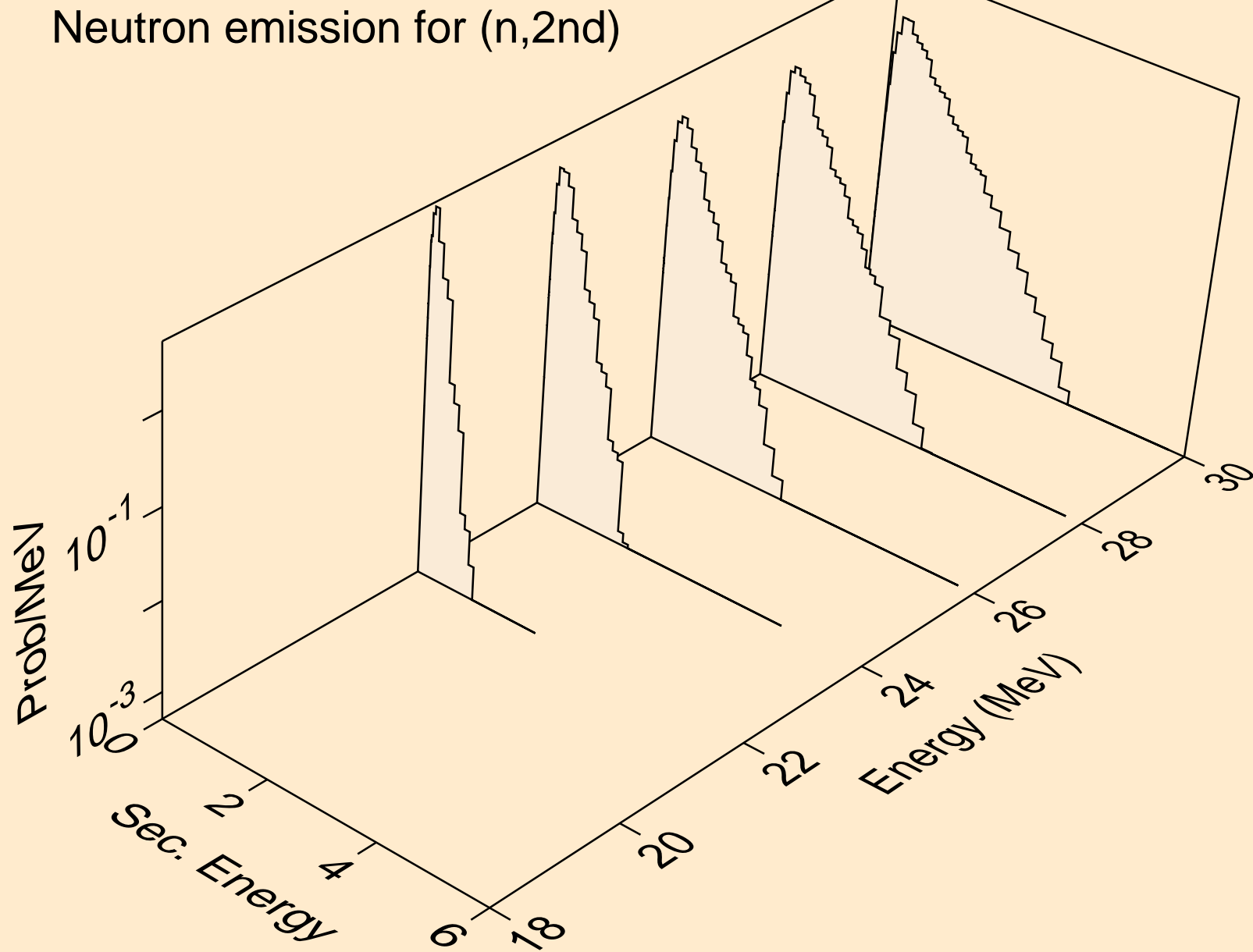
OS189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for (n,n\*30)



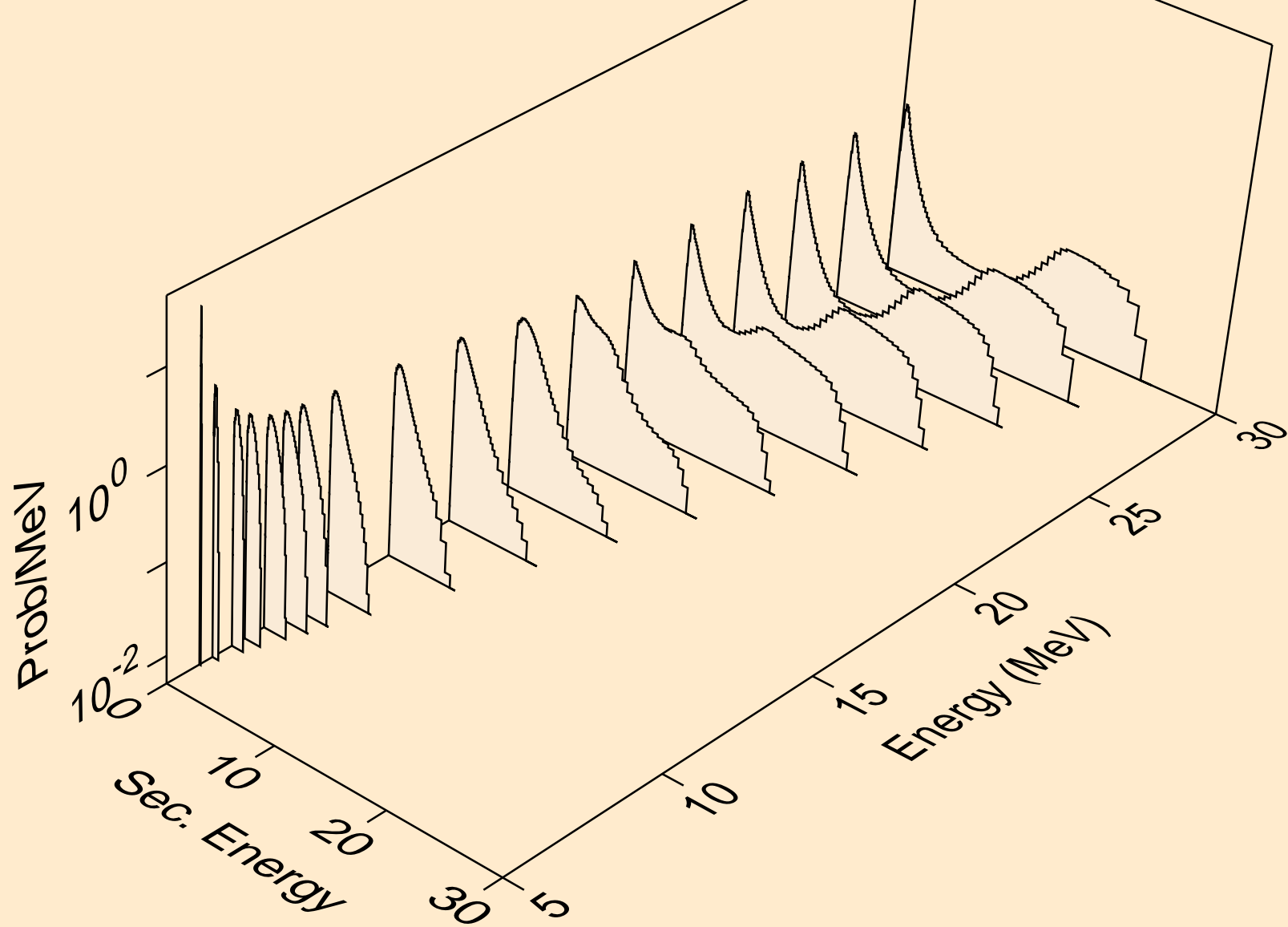
OS189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,x)



OS189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,2nd)

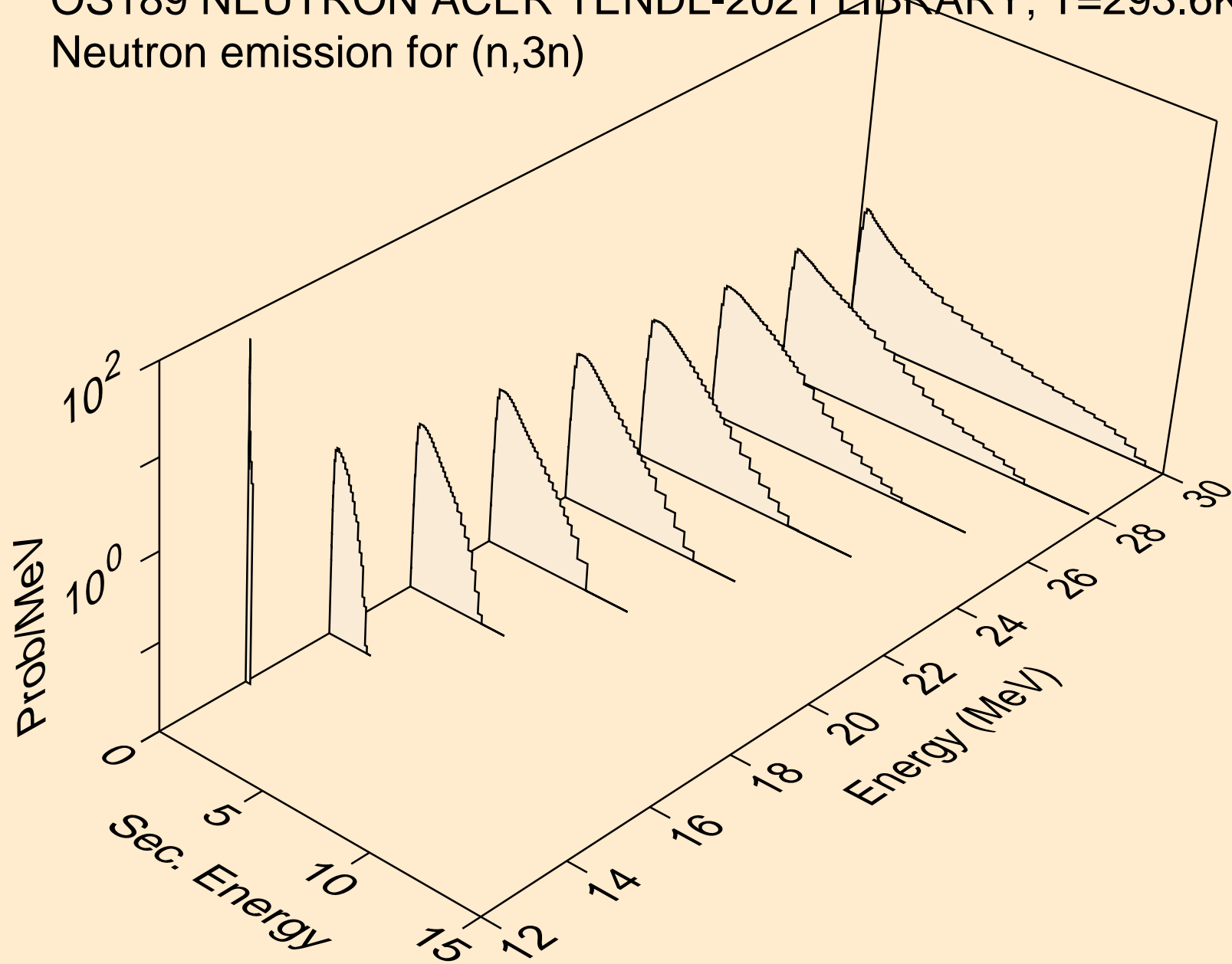


OS189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,2n)

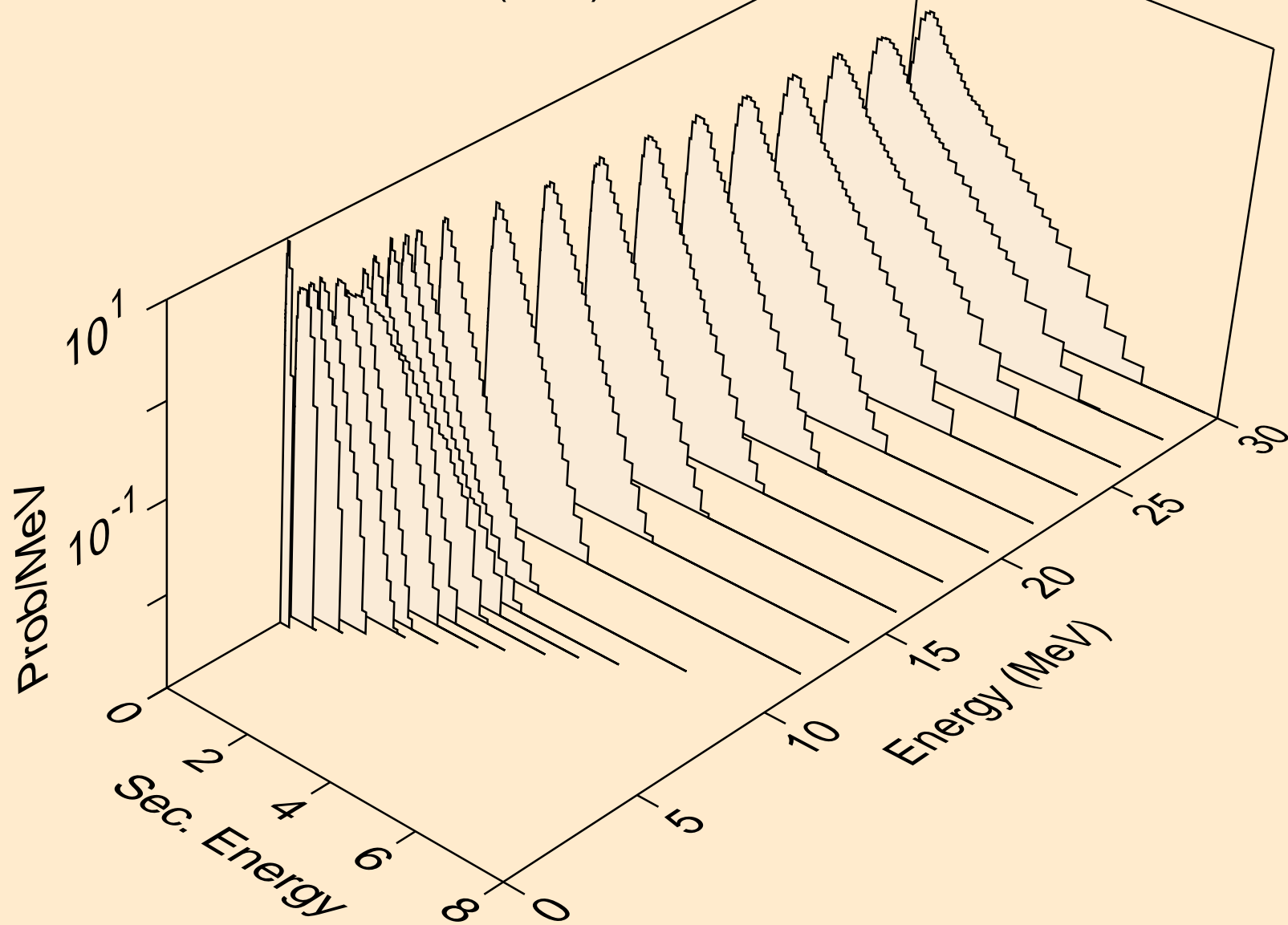




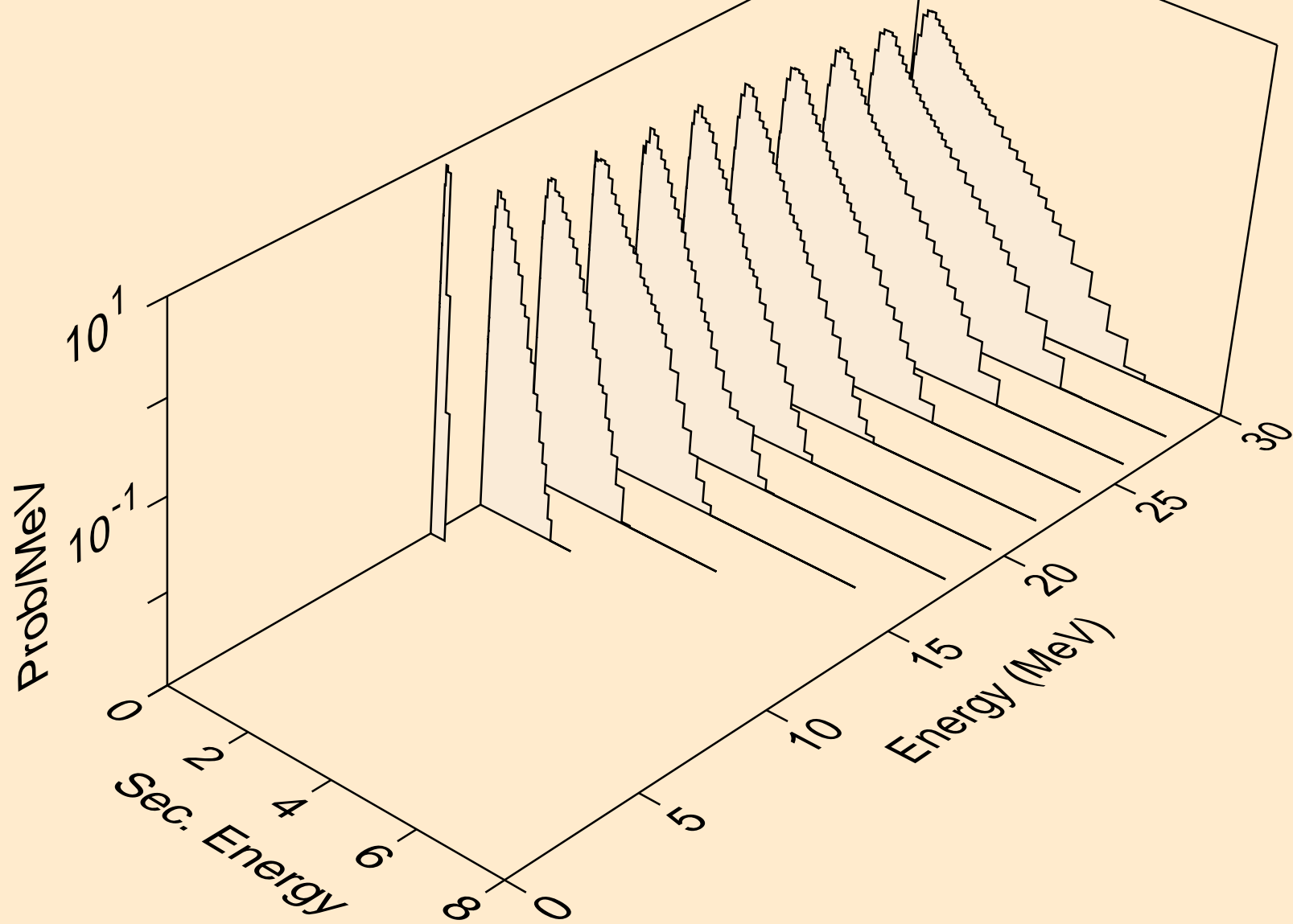
OS189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,3n)



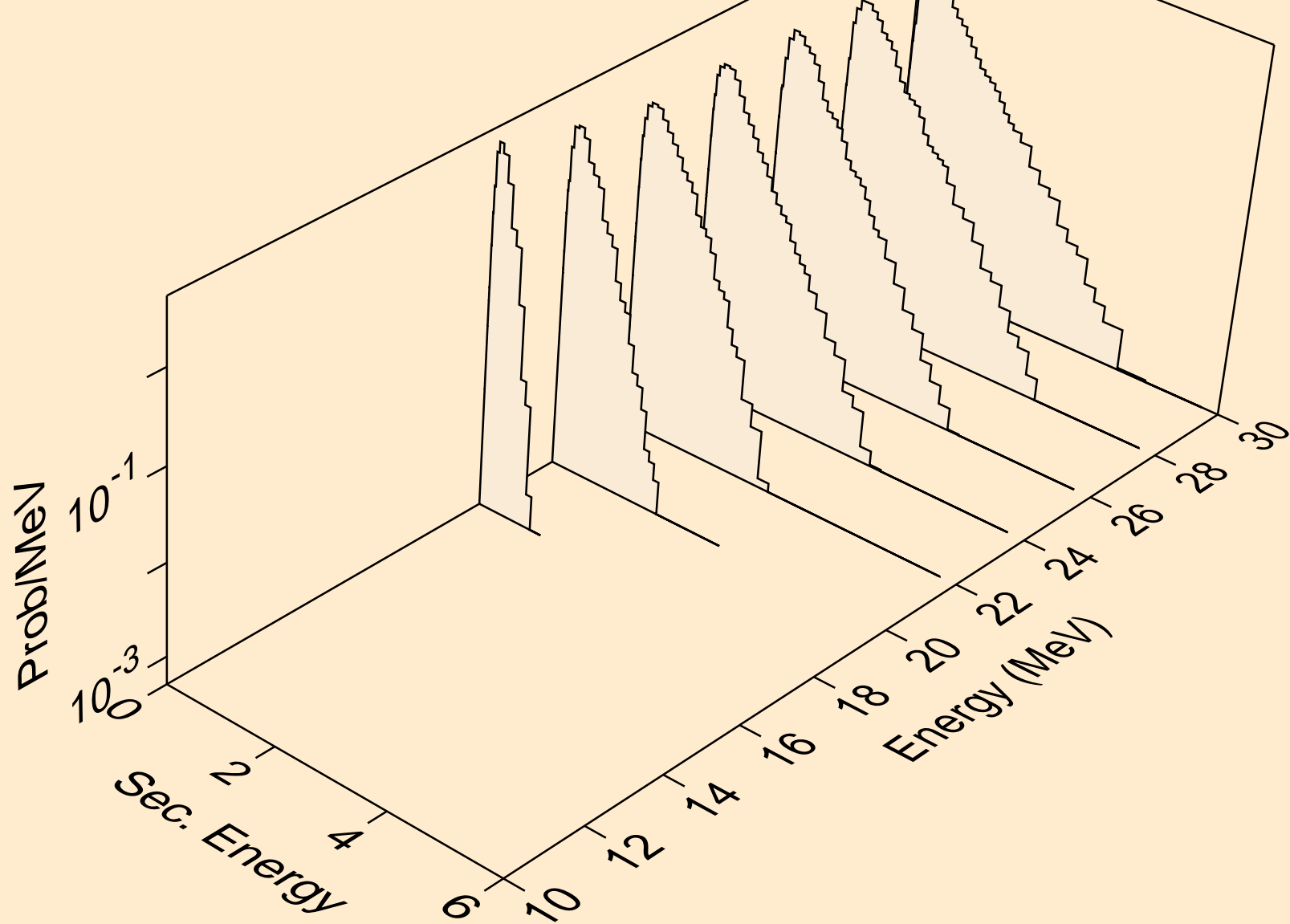
OS189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,n\*)a



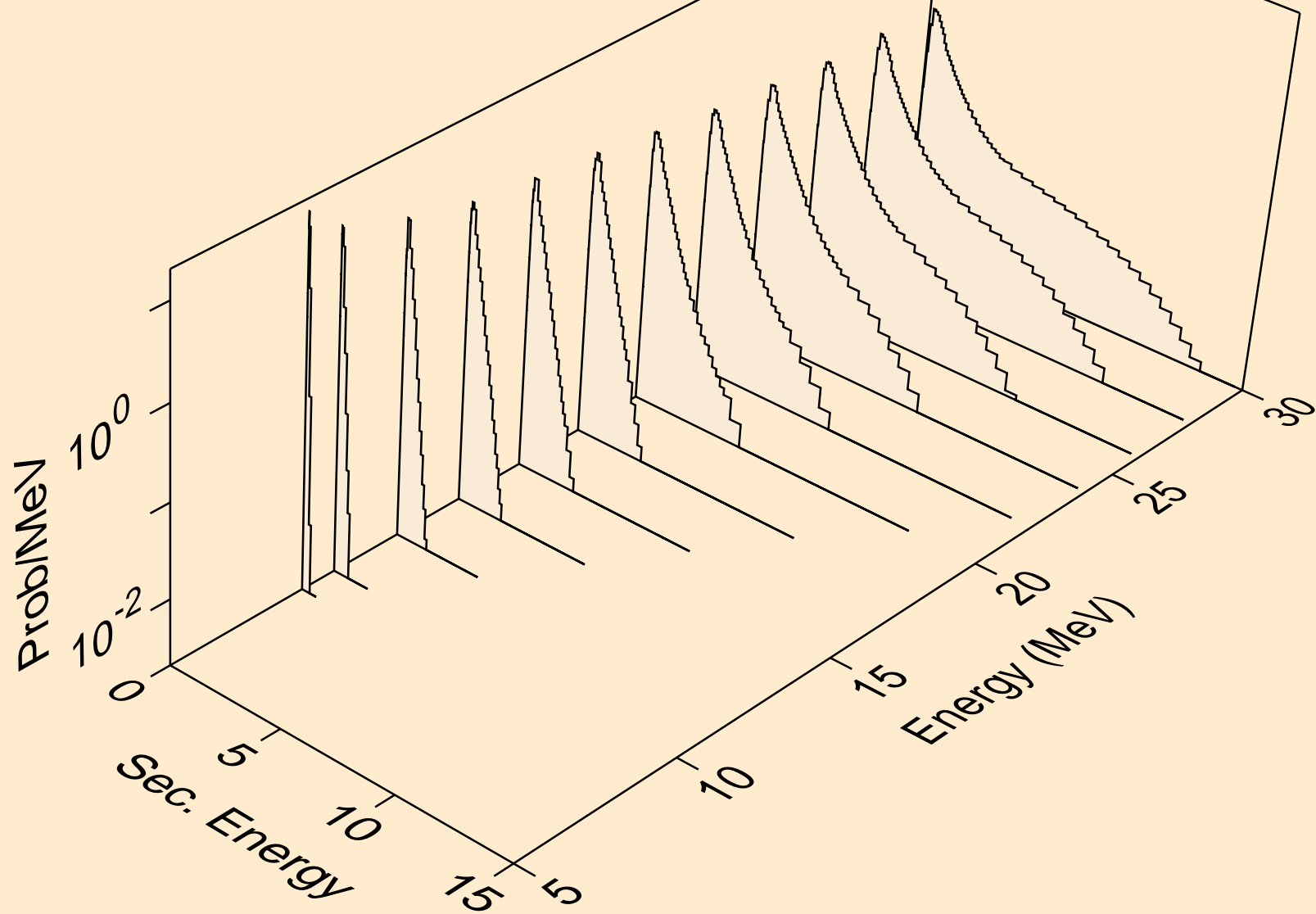
OS189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,2n)<sub>a</sub>



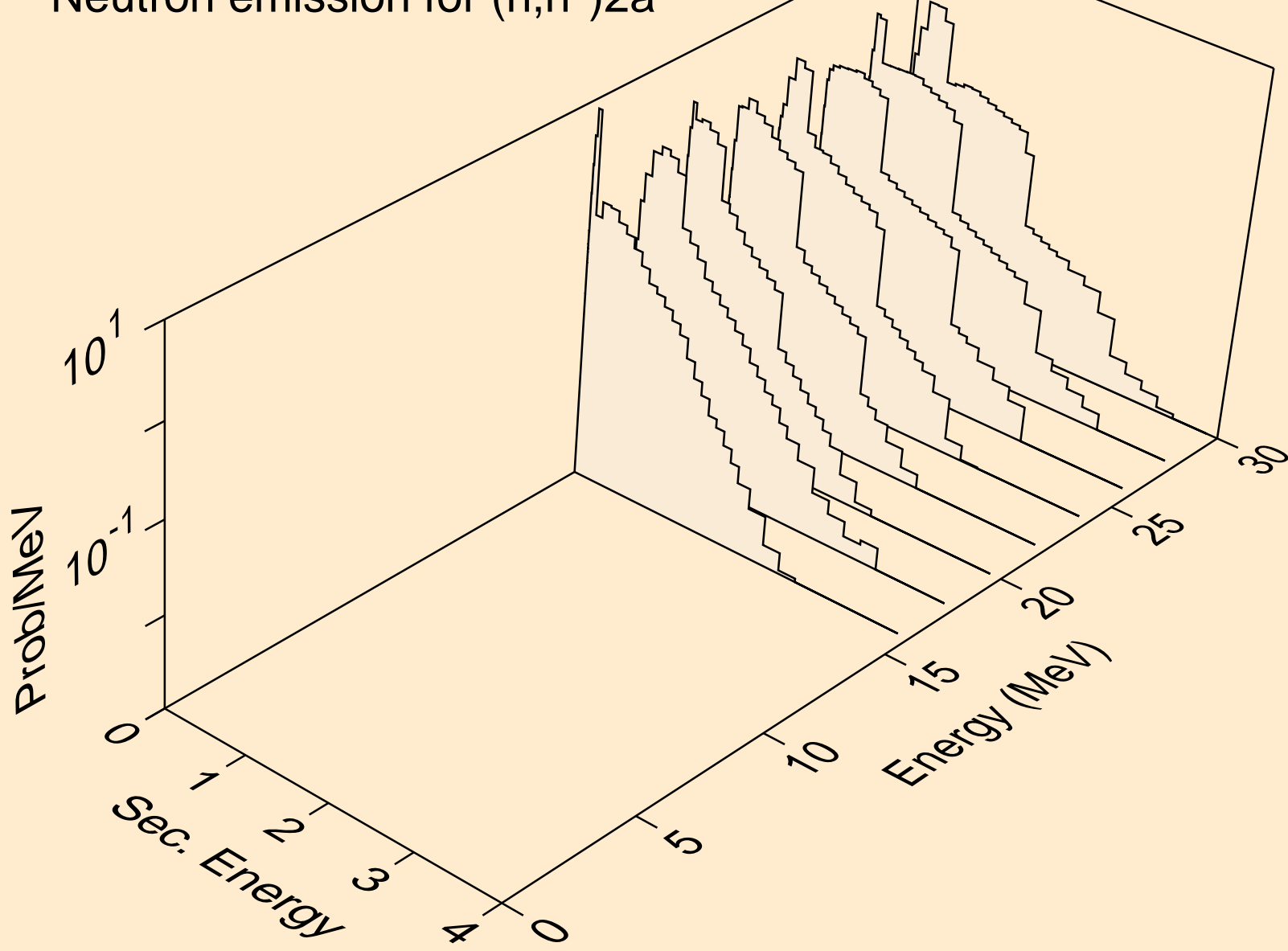
OS189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,3n)a



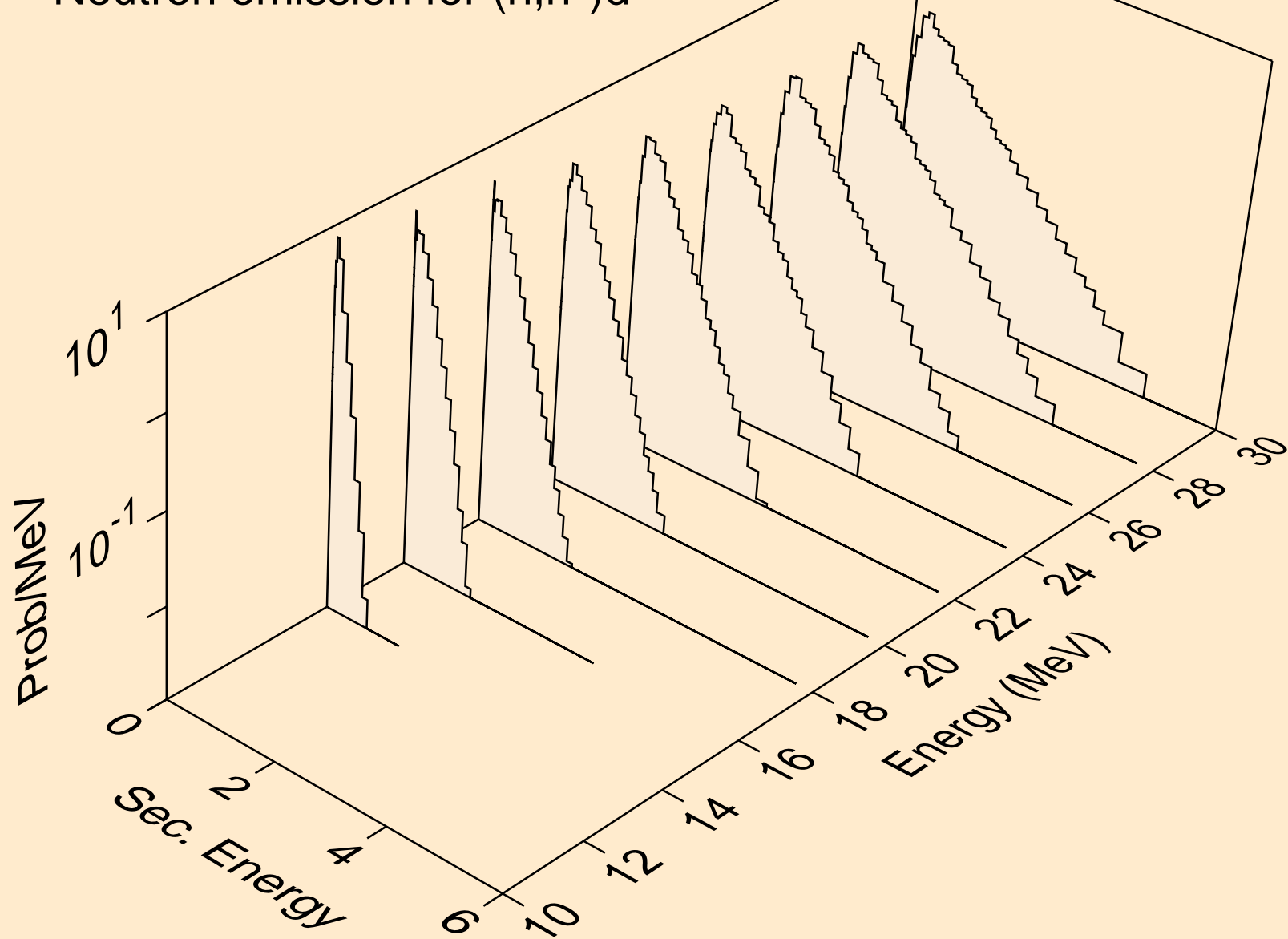
OS189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,n\*)p



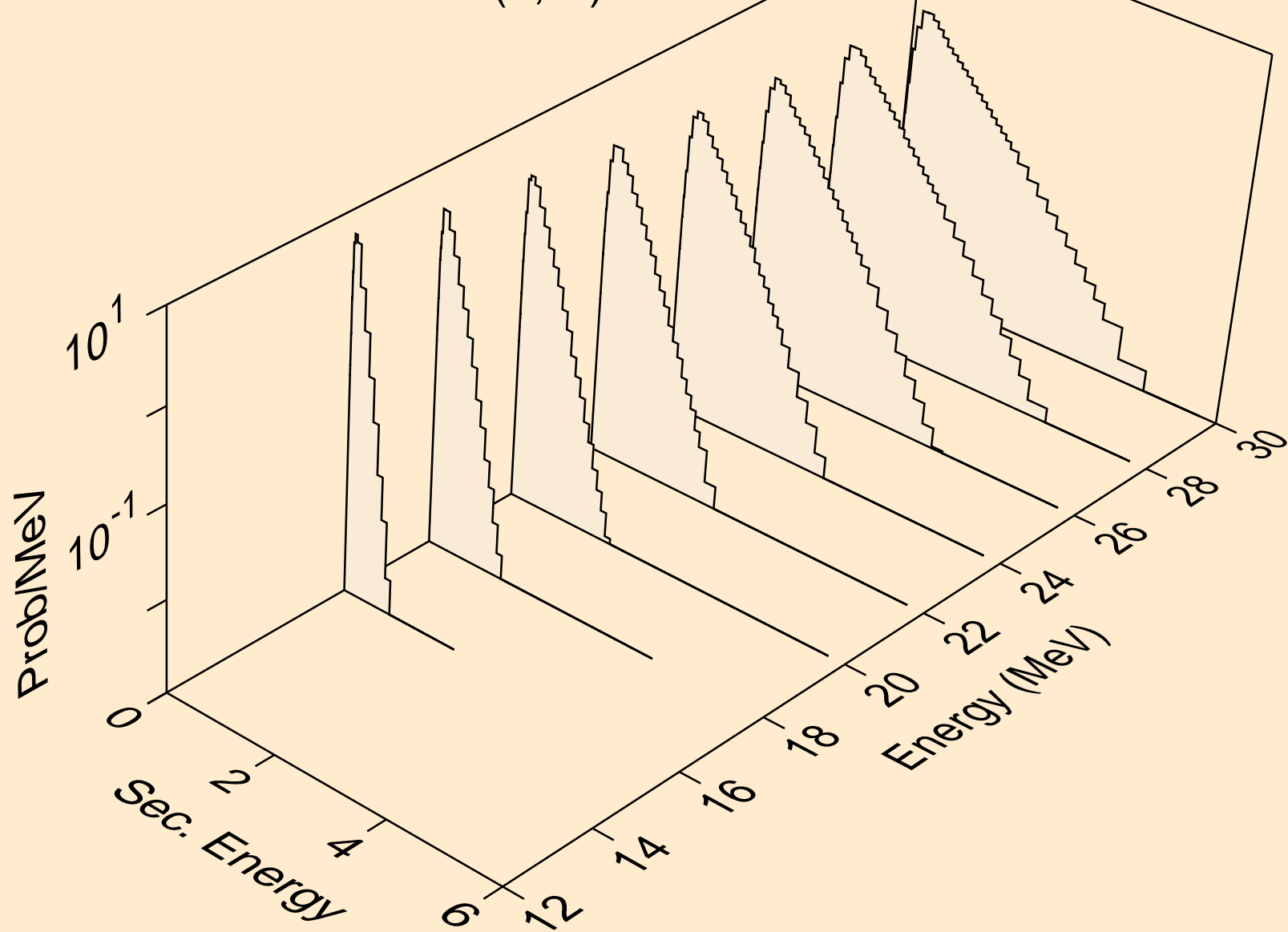
OS189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,n\*)2a



OS189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,n\*)d

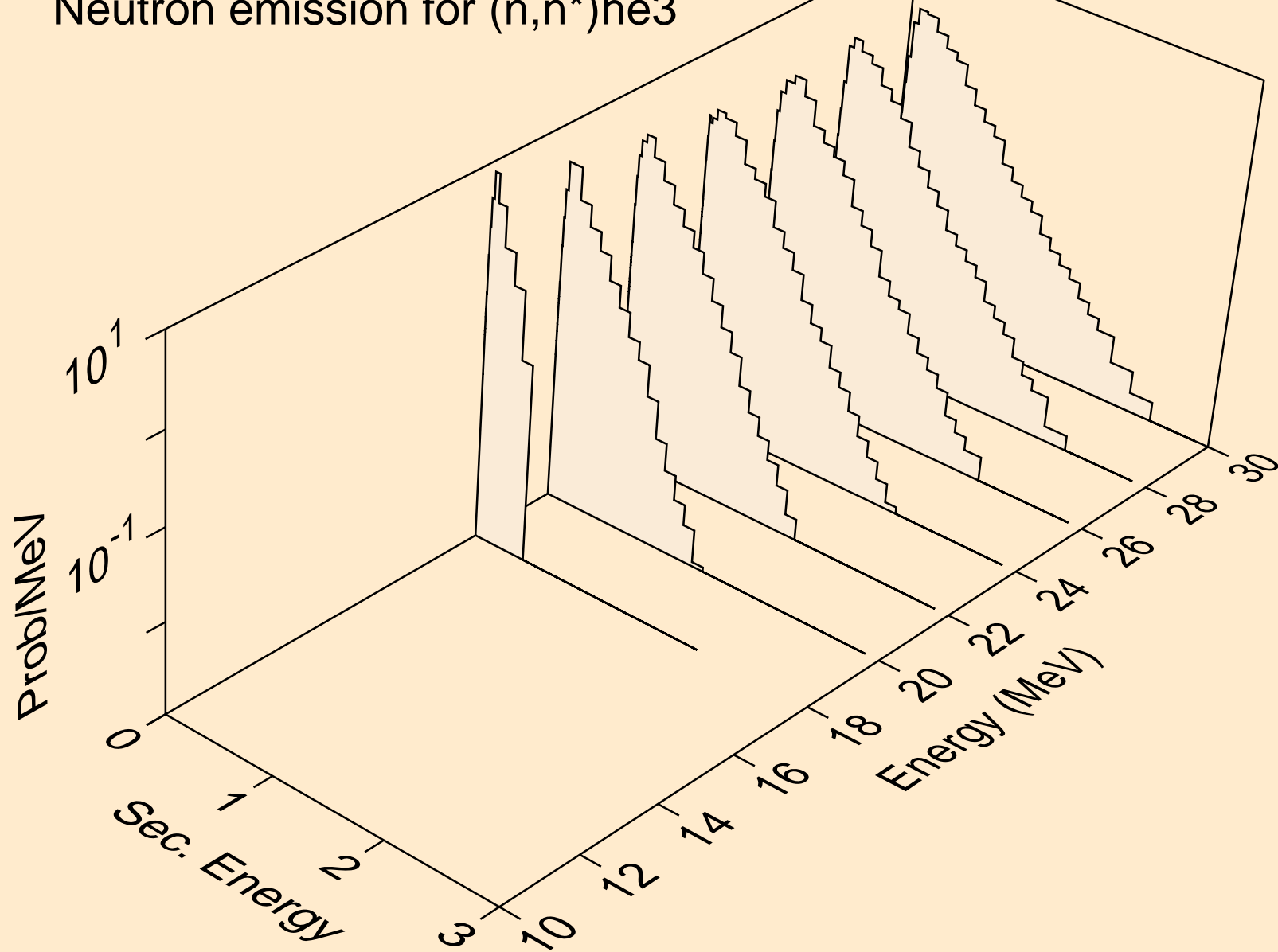


OS189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,n\*)t

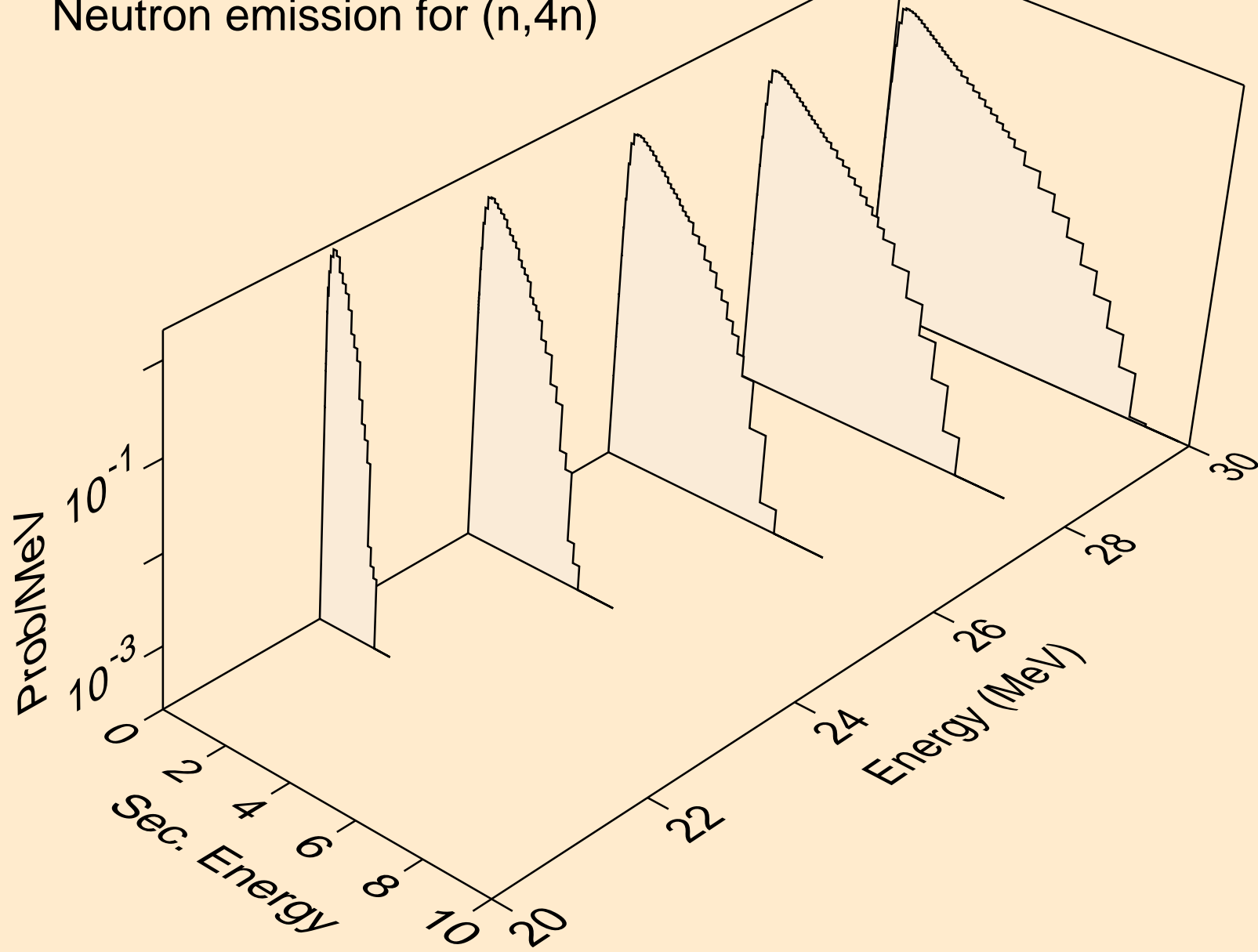




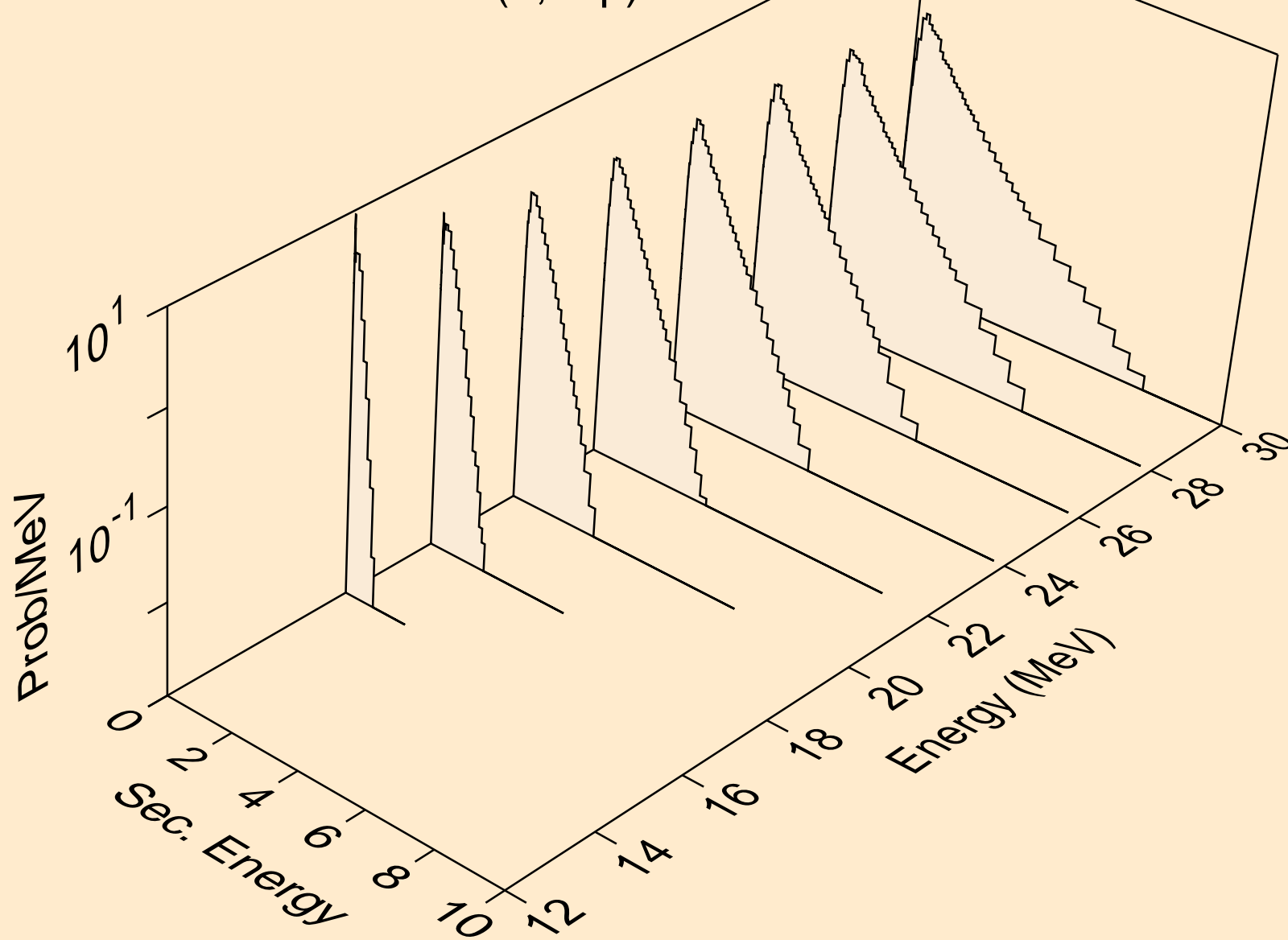
OS189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,n\*)he3



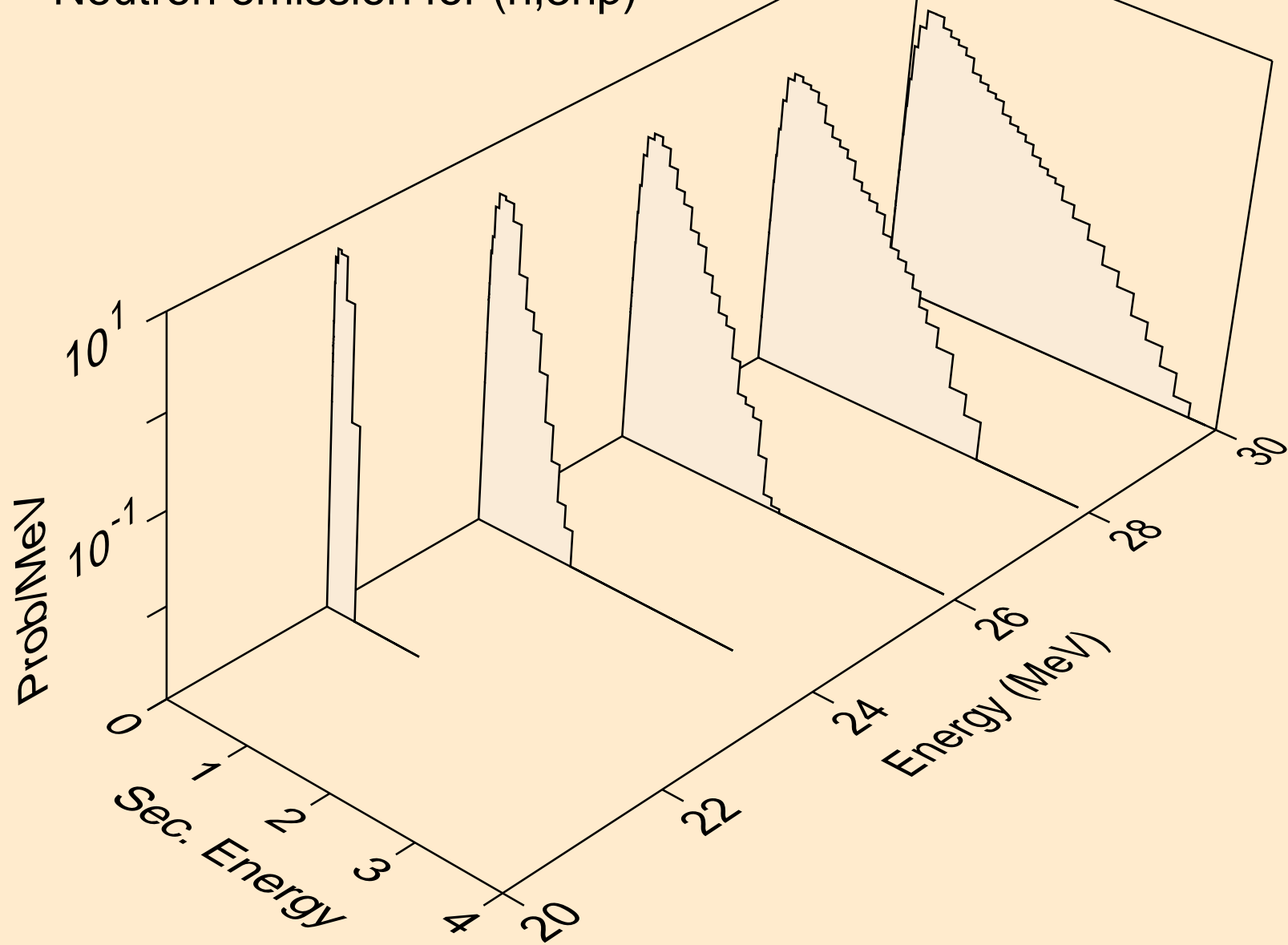
OS189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,4n)



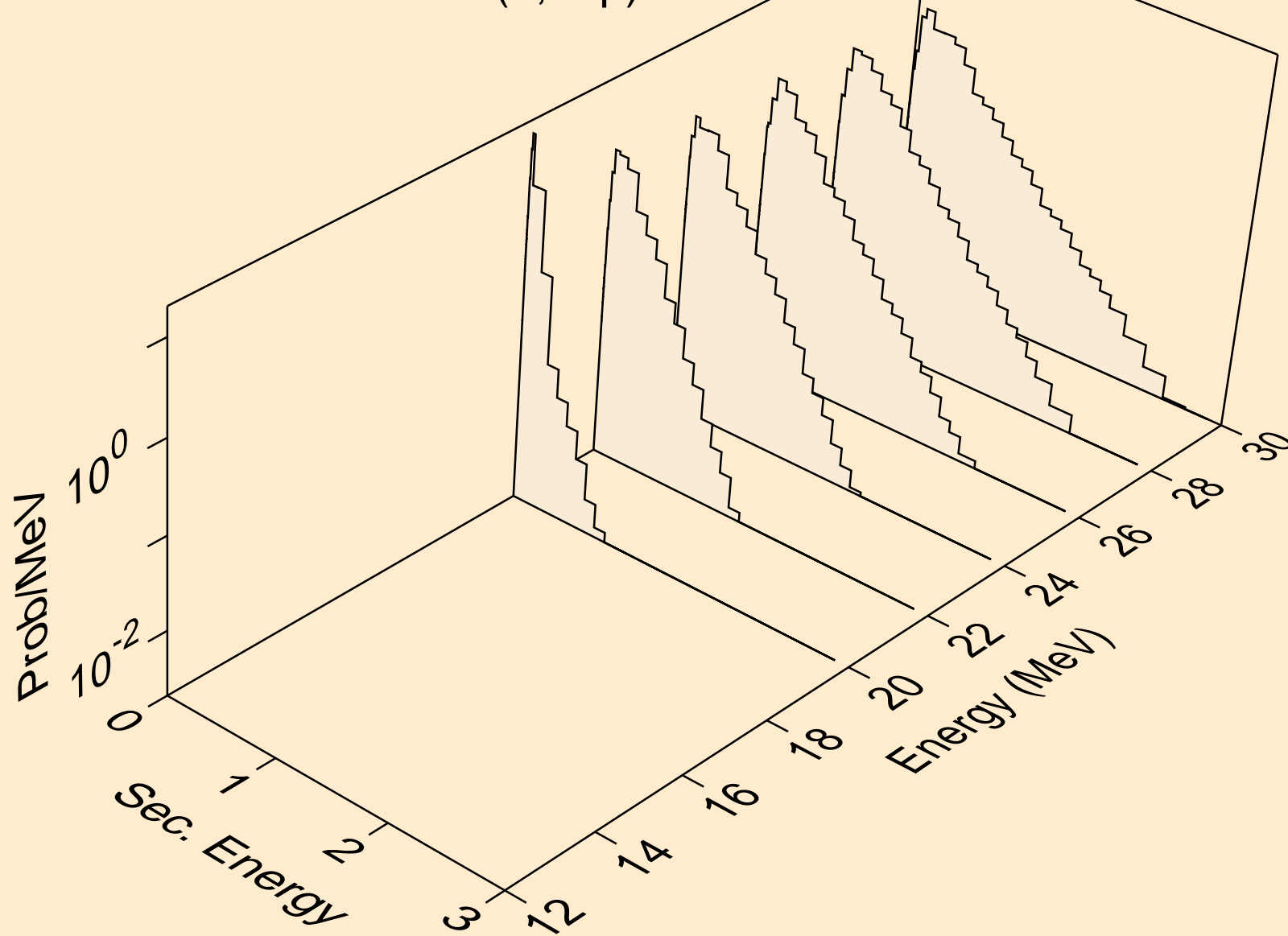
OS189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,2np)



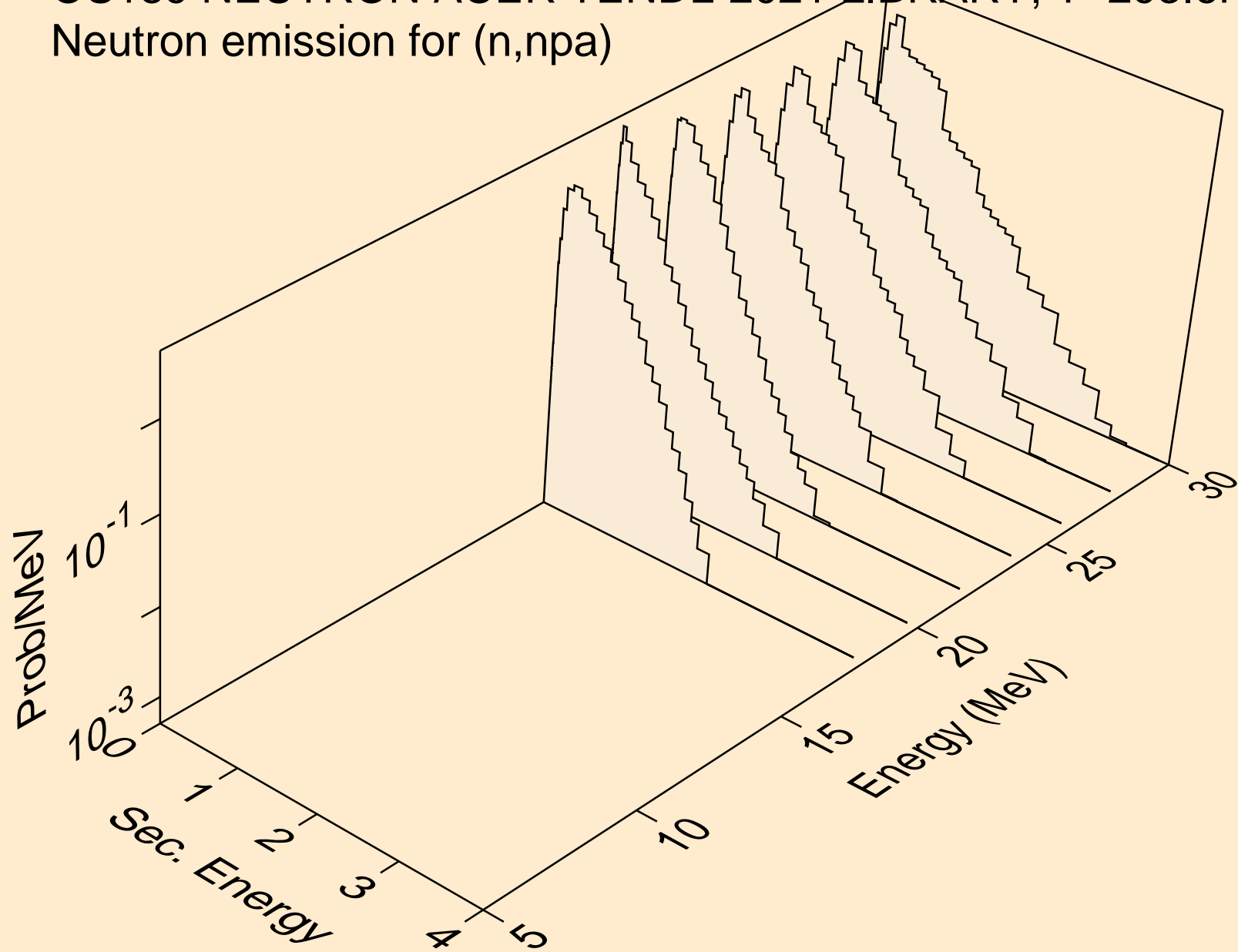
OS189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,3np)



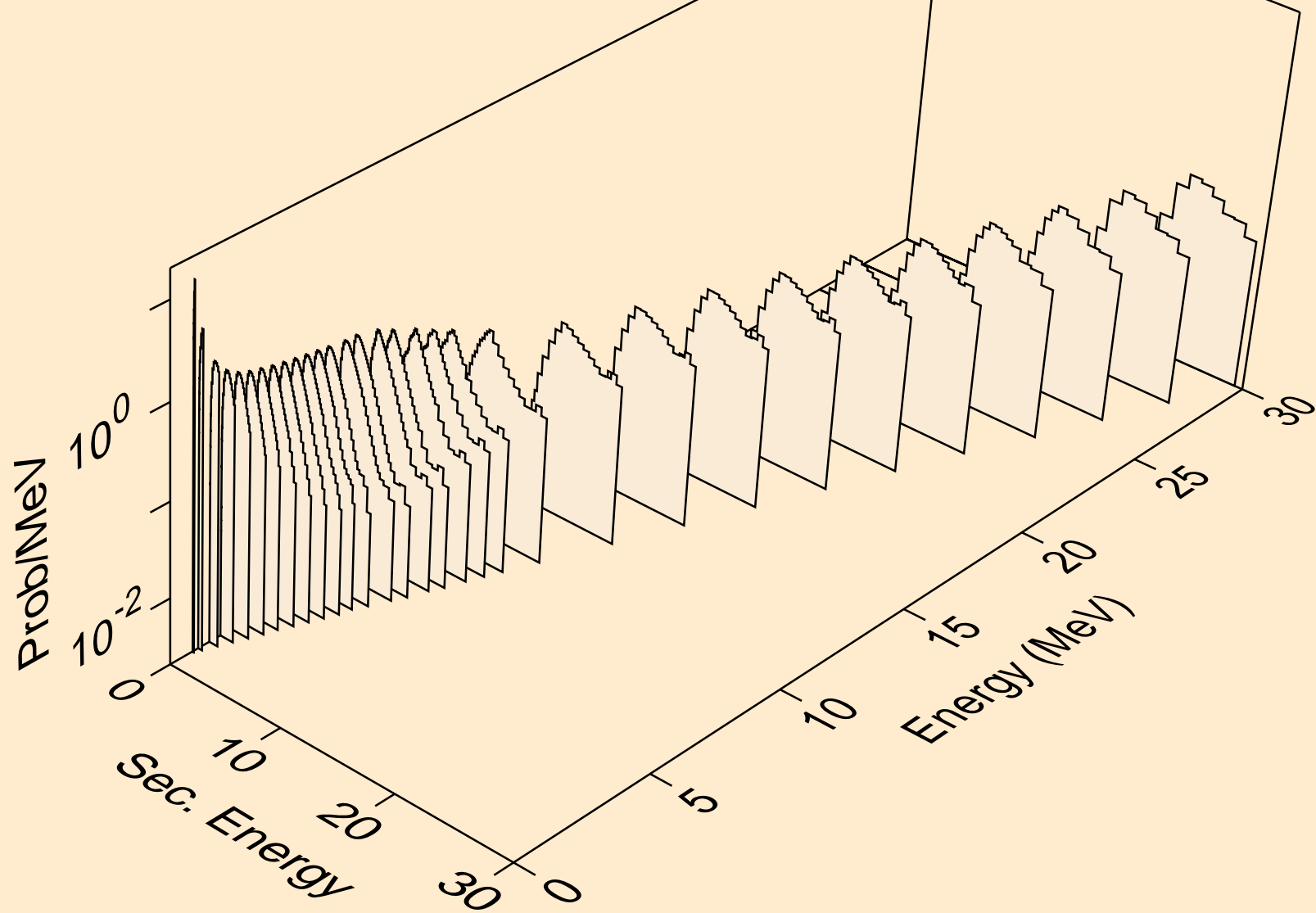
OS189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,2np)



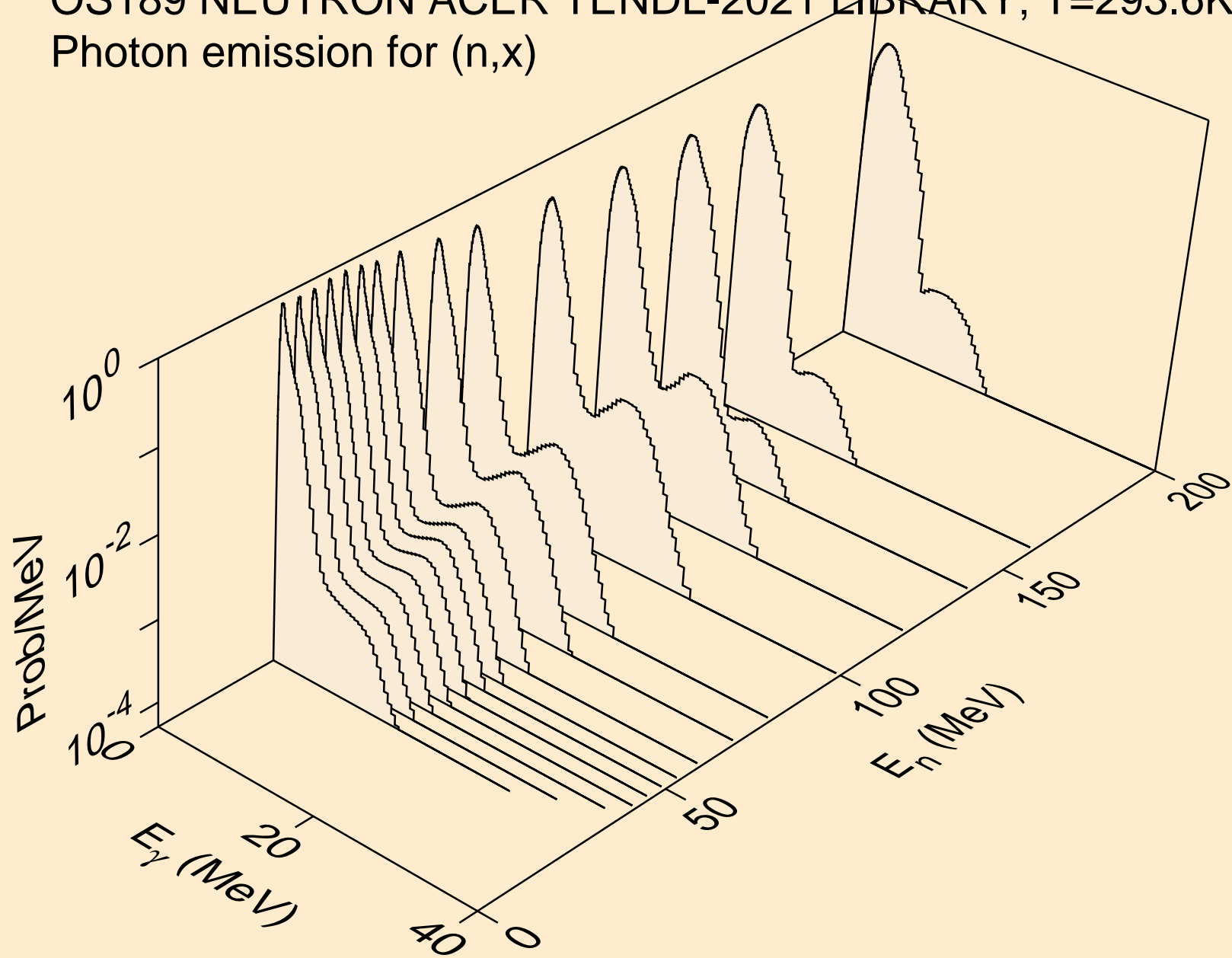
OS189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,npa)



OS189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,n\*c)

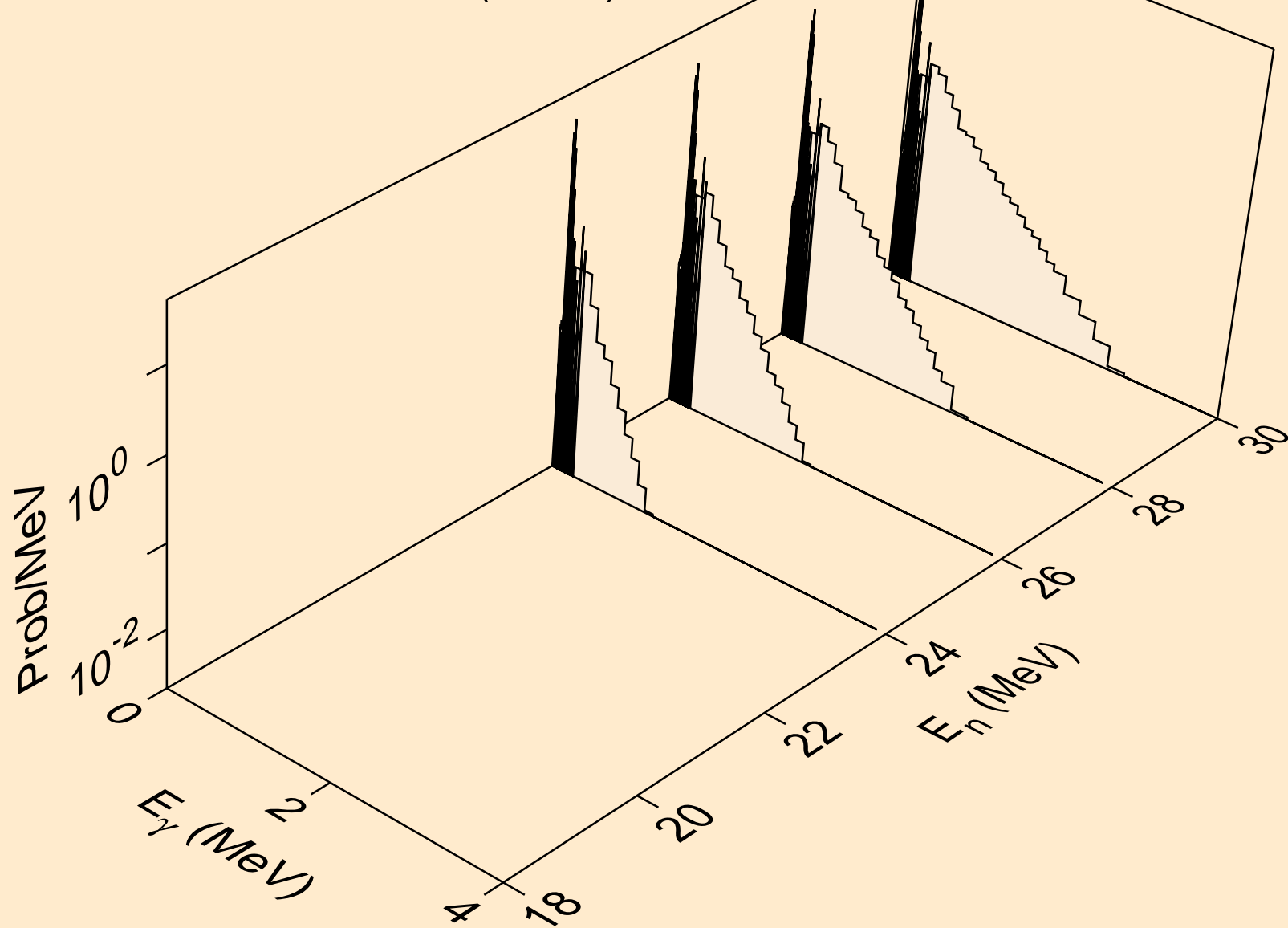


OS189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,x)

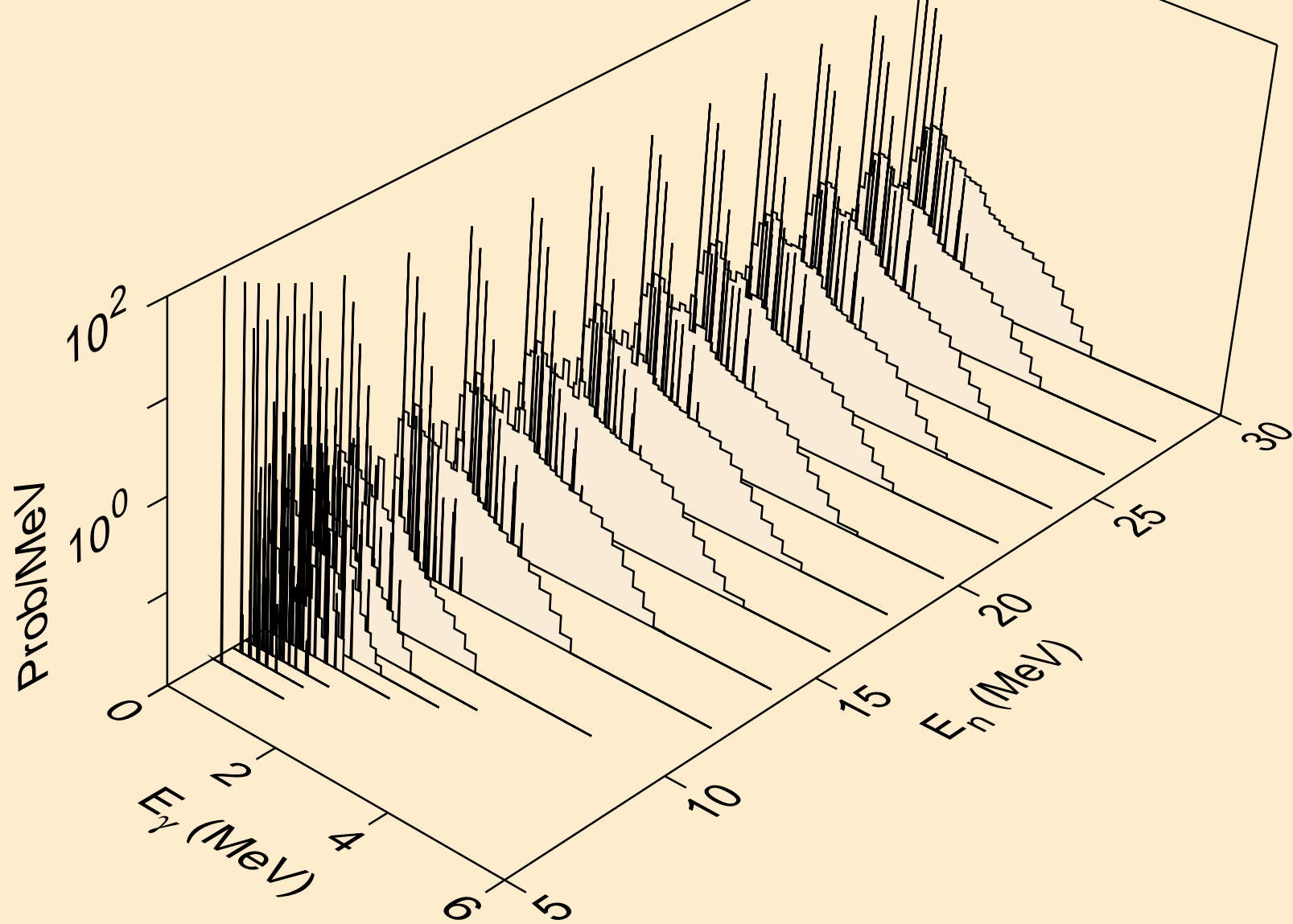




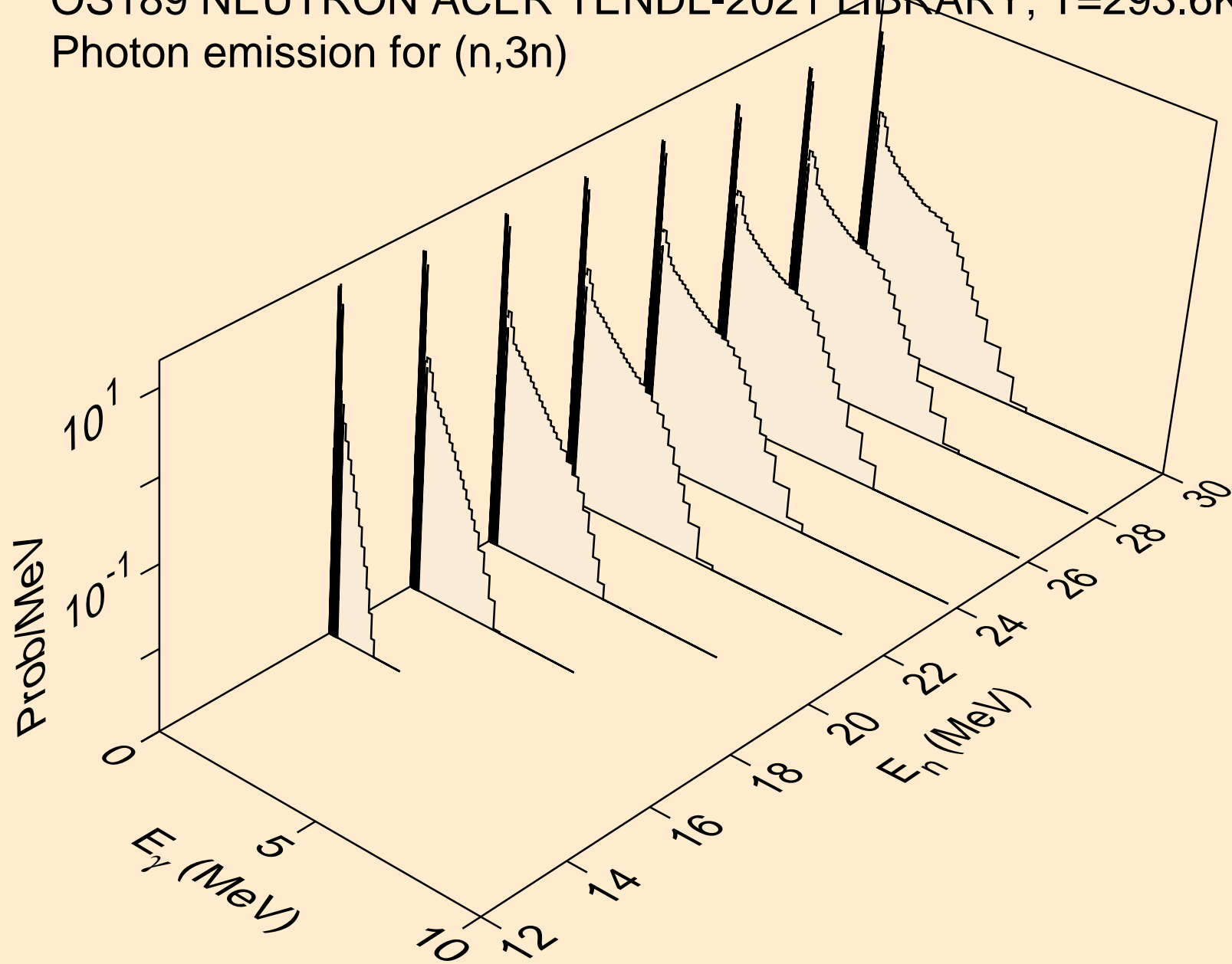
OS189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,2nd)



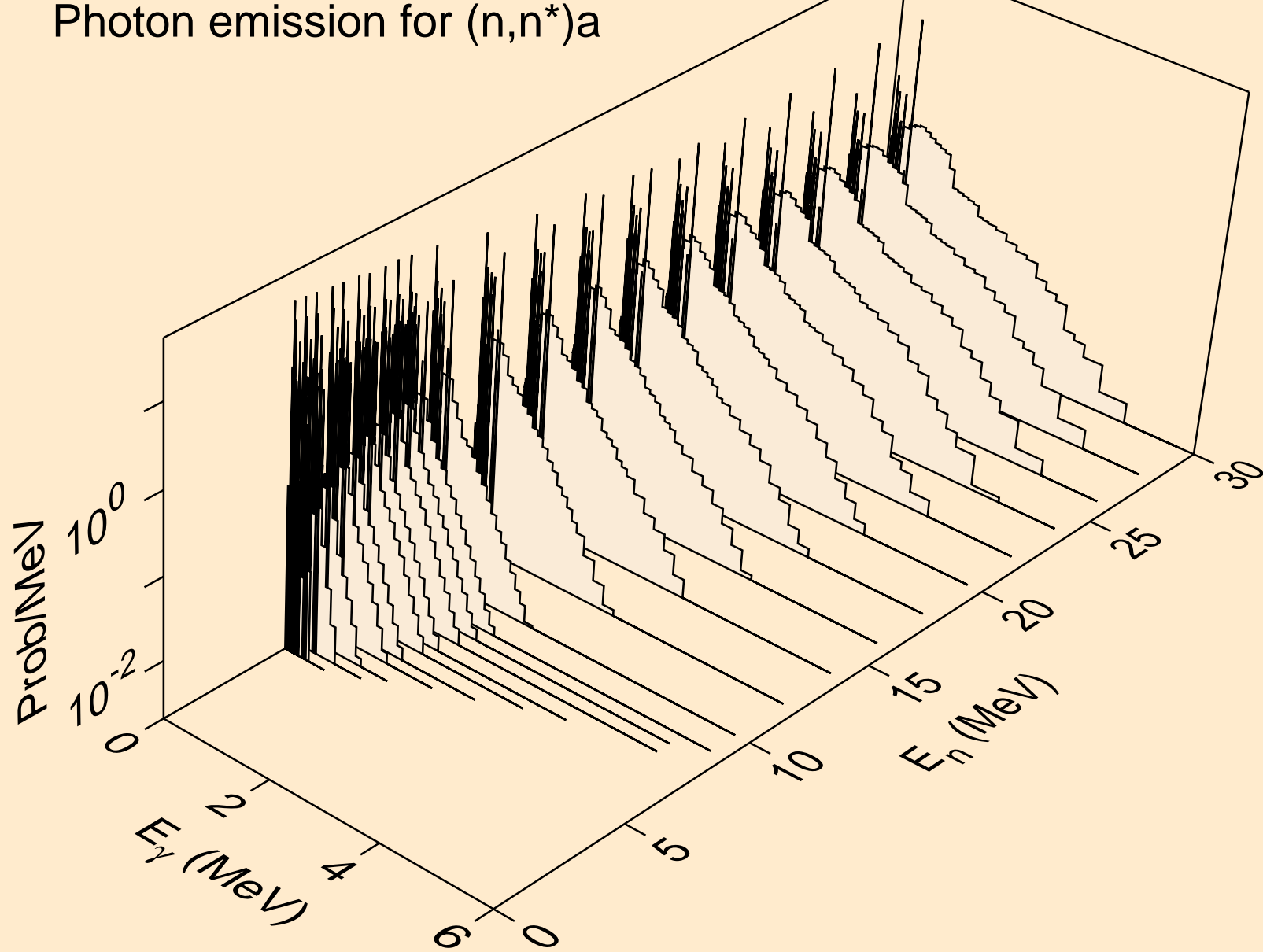
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Photon emission for (n,2n)



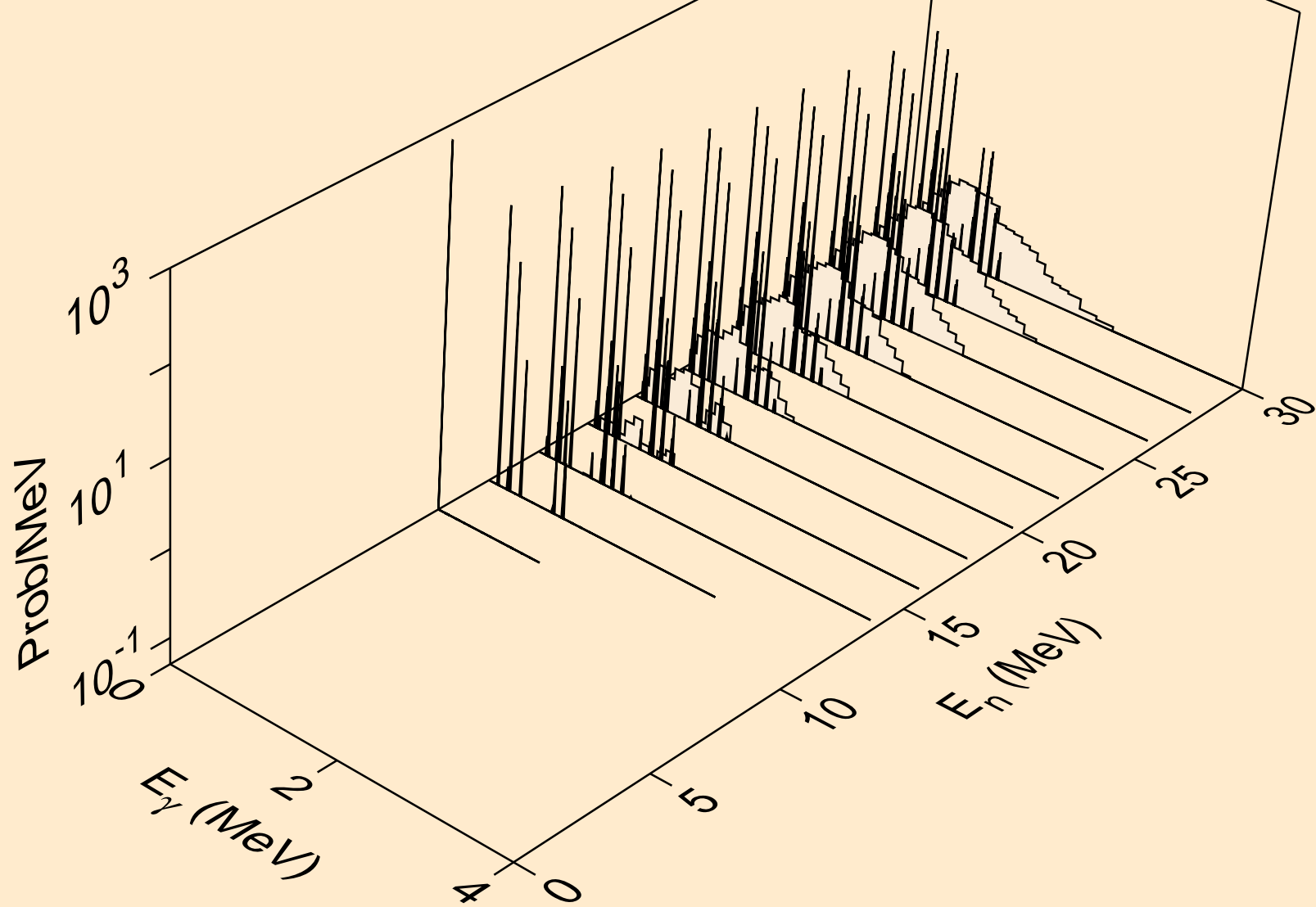
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Photon emission for (n,3n)



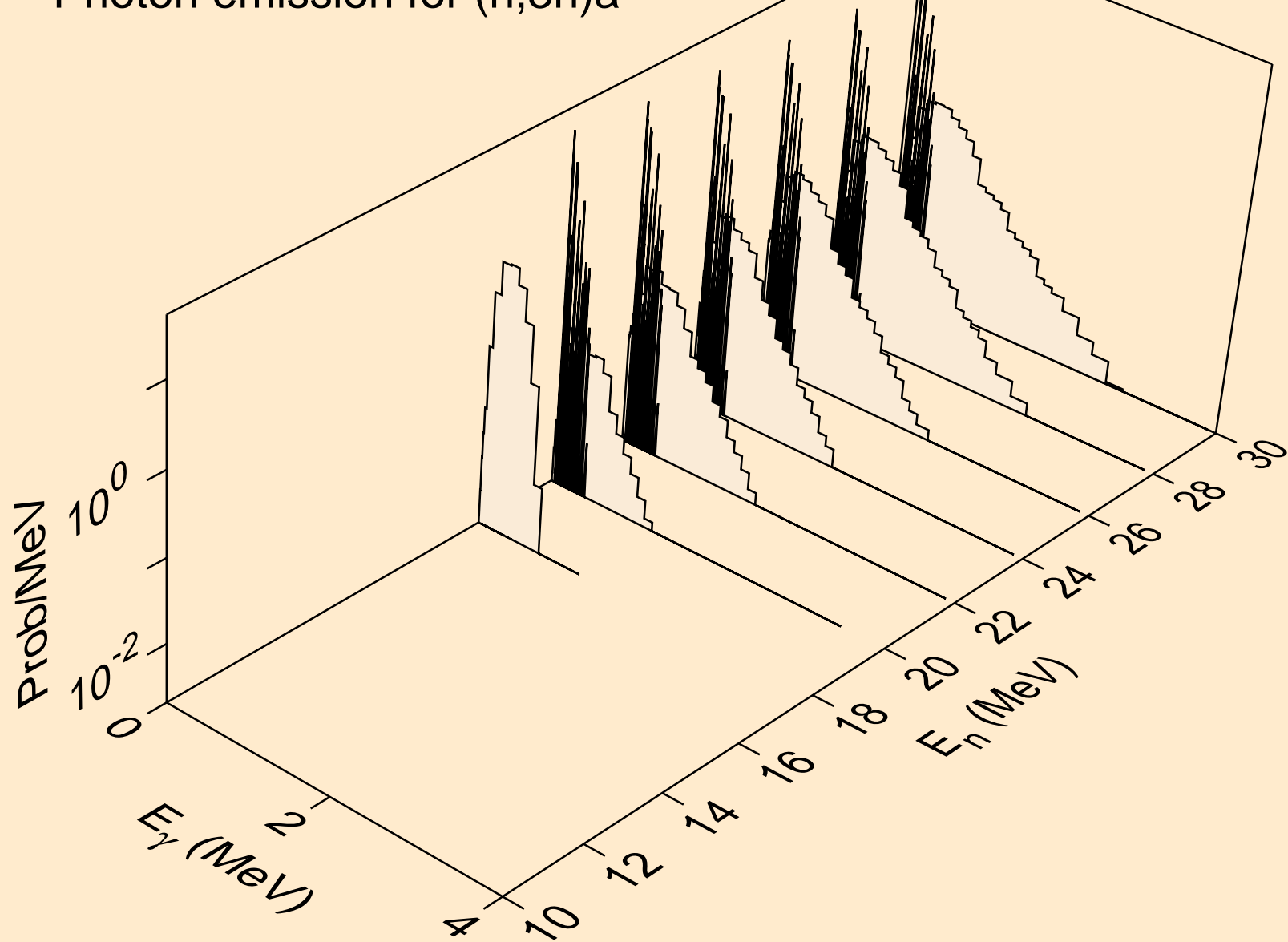
OS189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,n\*)a



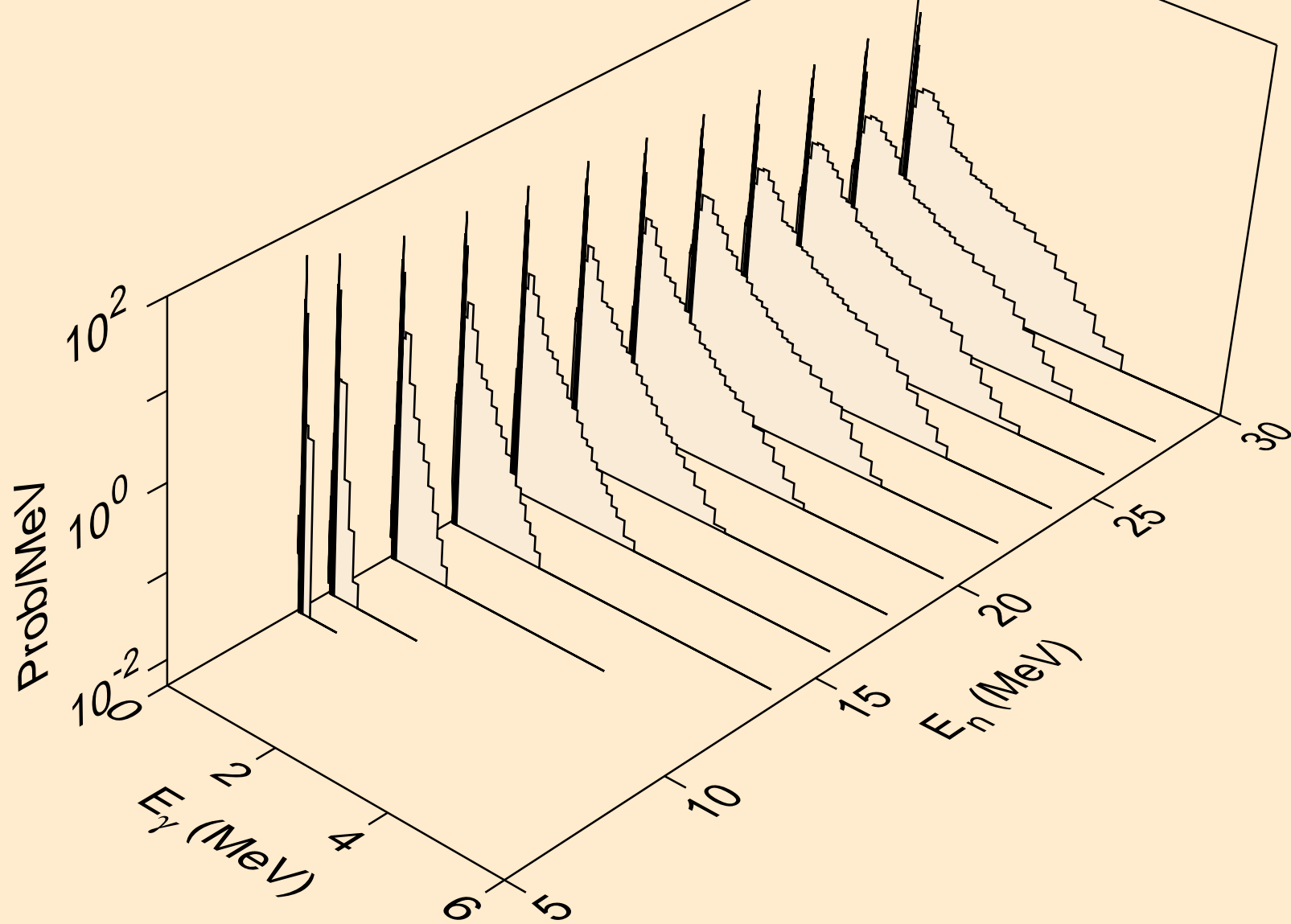
OS189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,2n)a



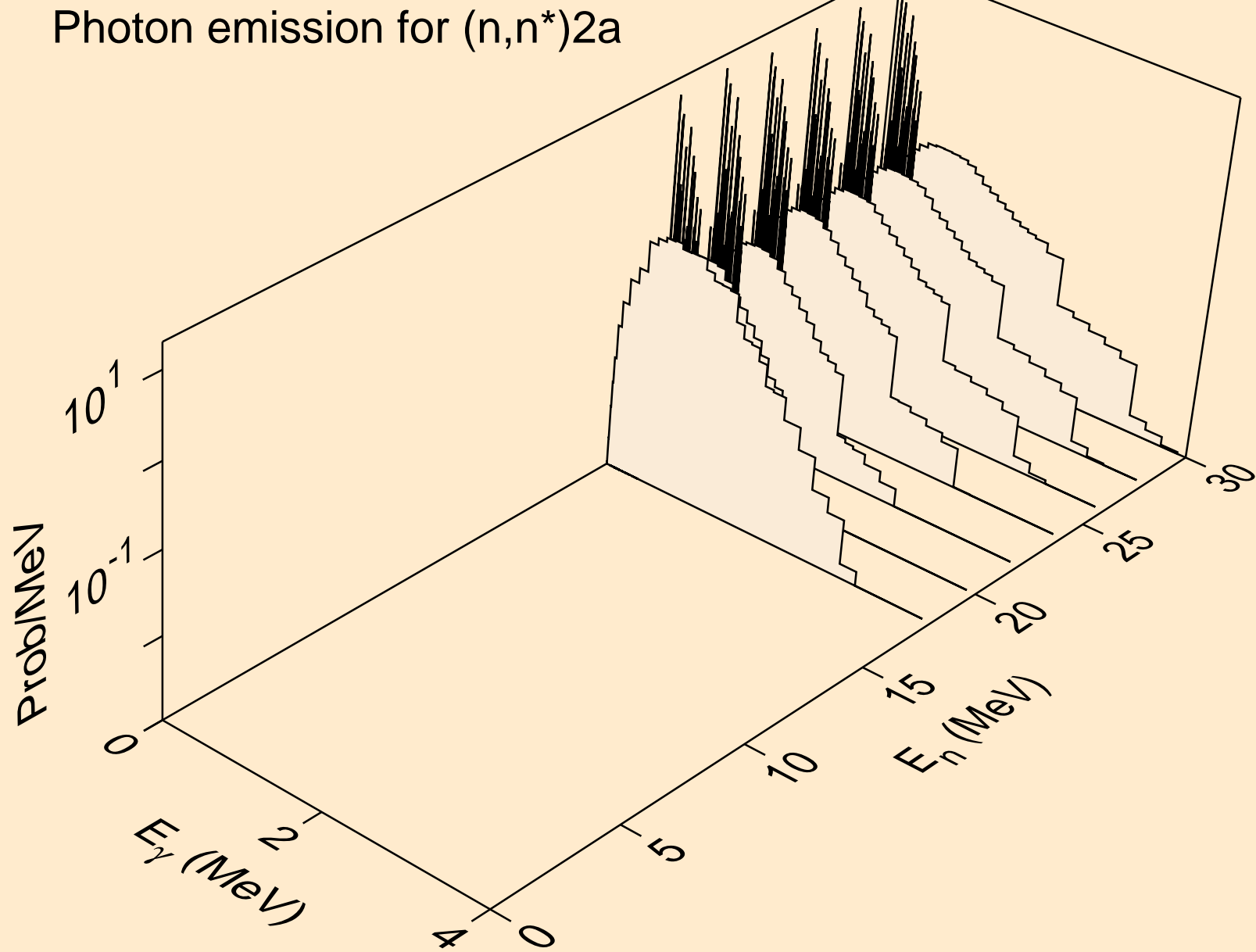
OS189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,3n)a



OS189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,n\*)p

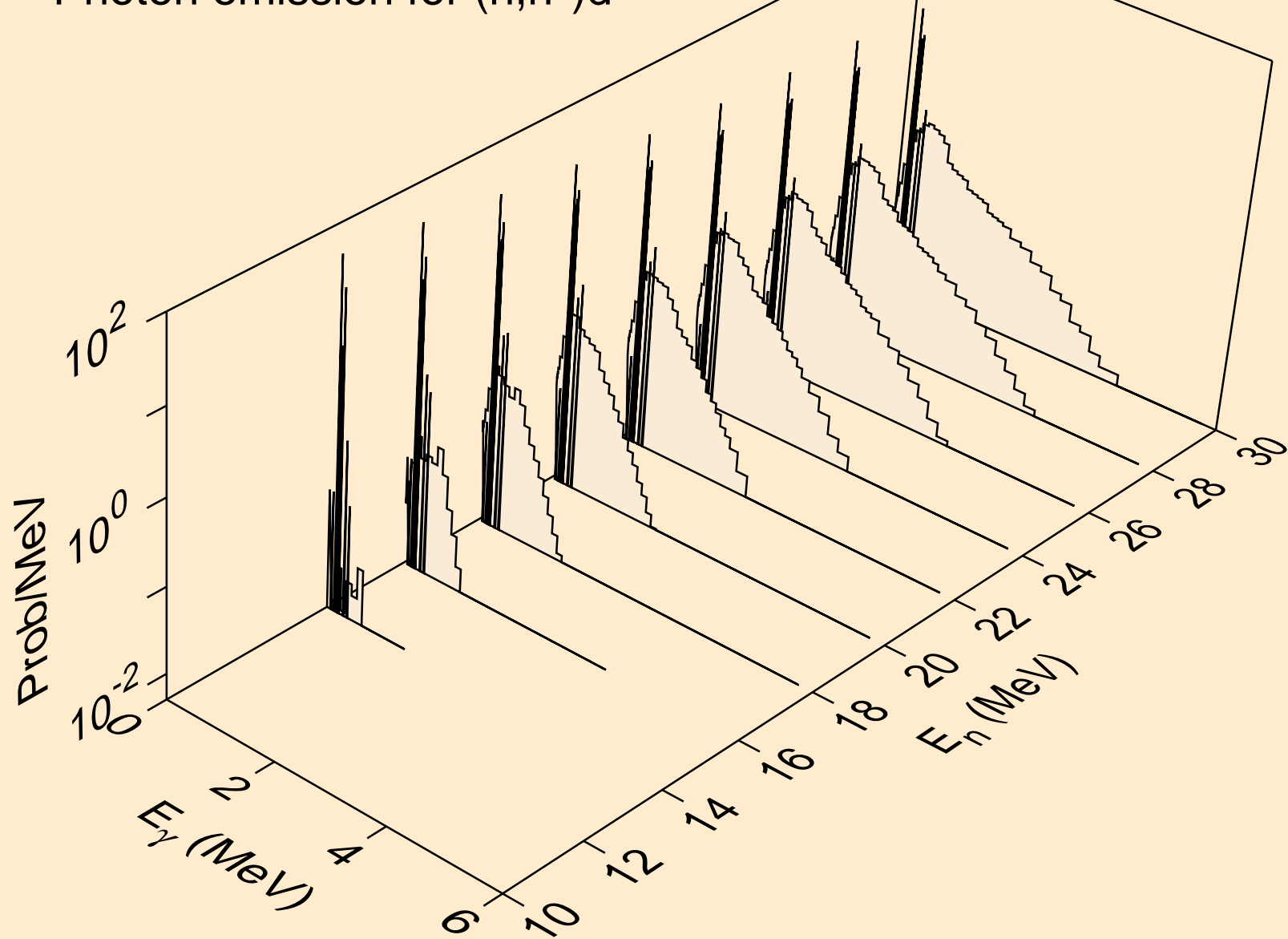


OS189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,n\*)2a

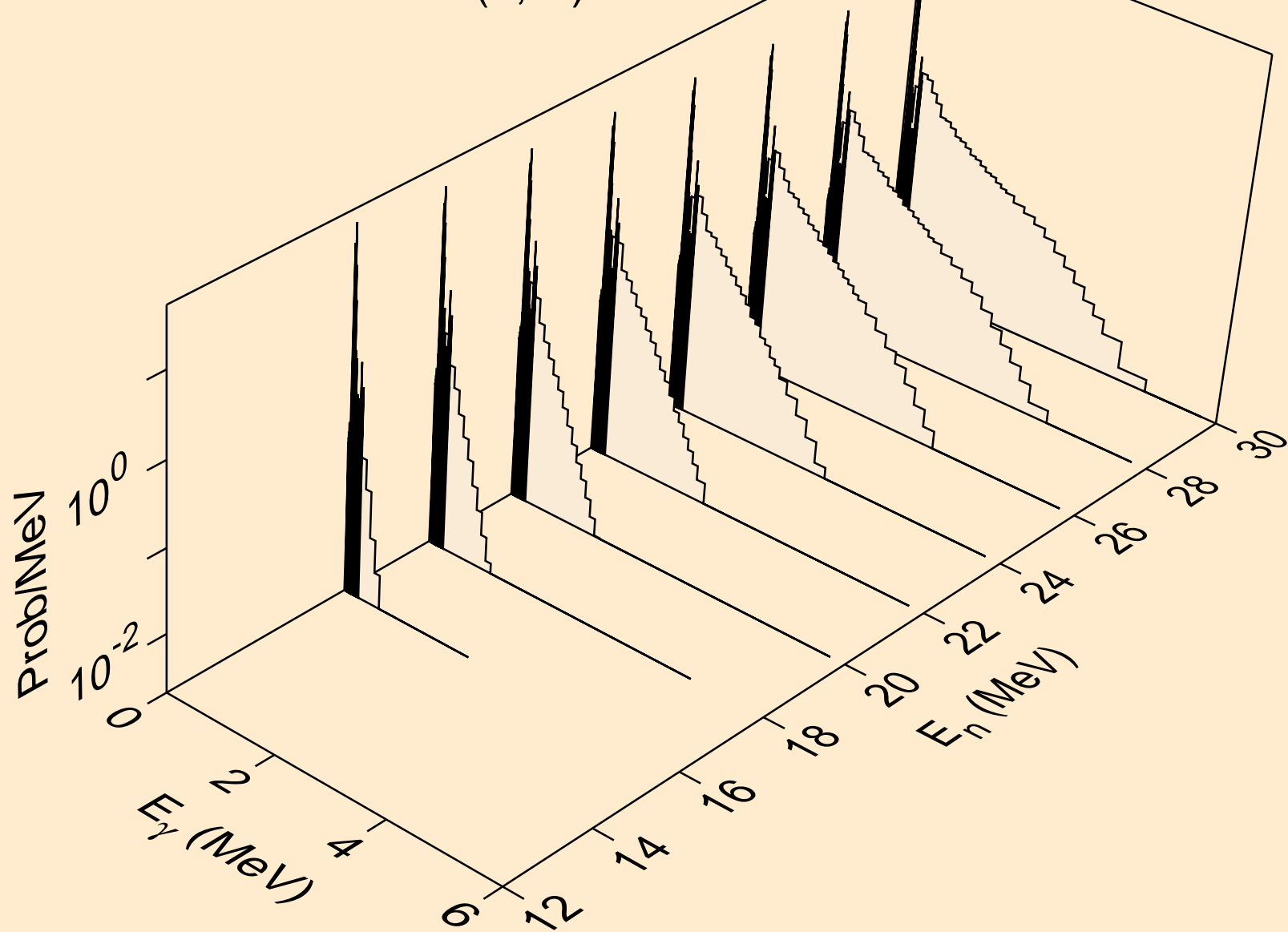




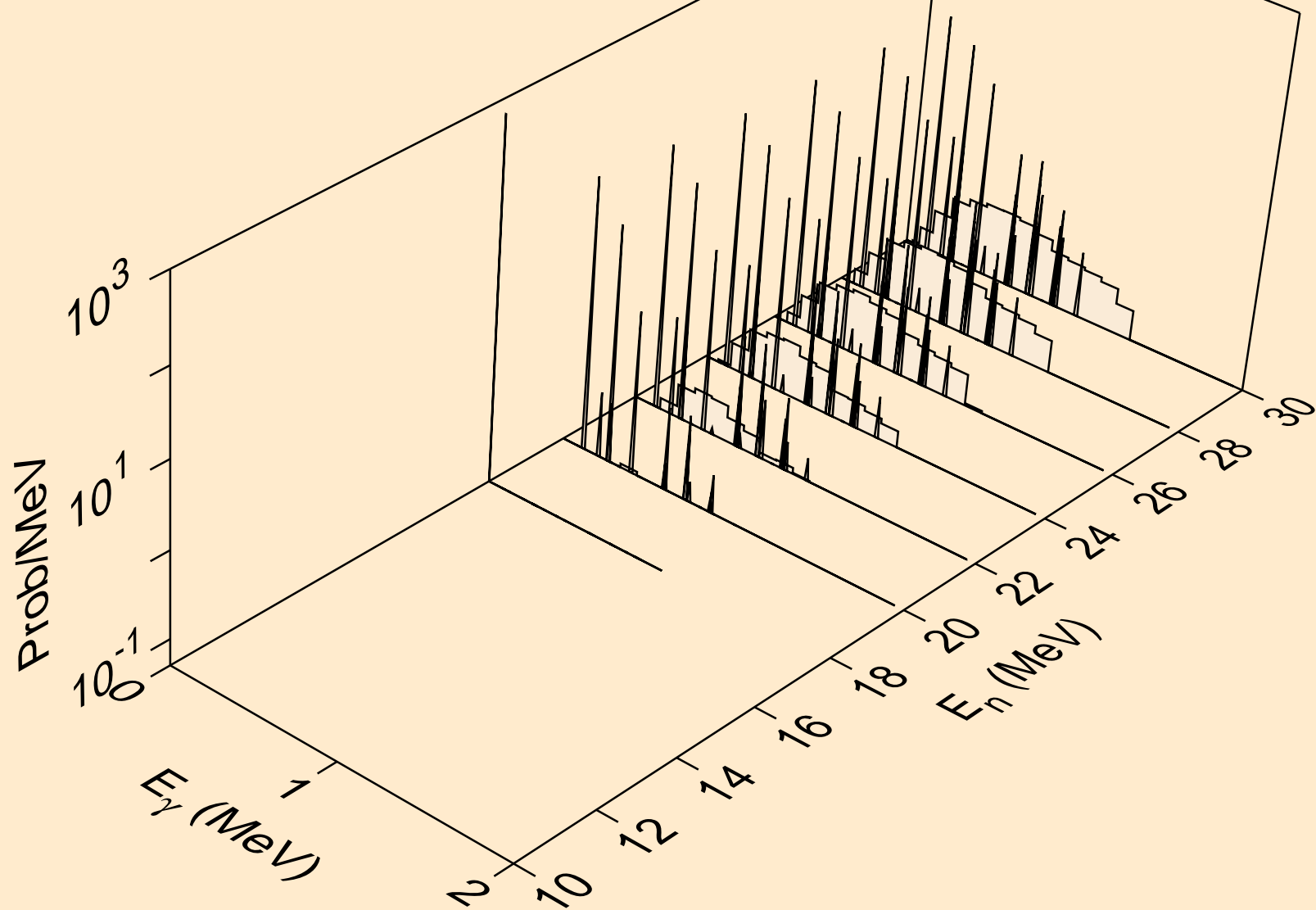
OS189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,n\*)d



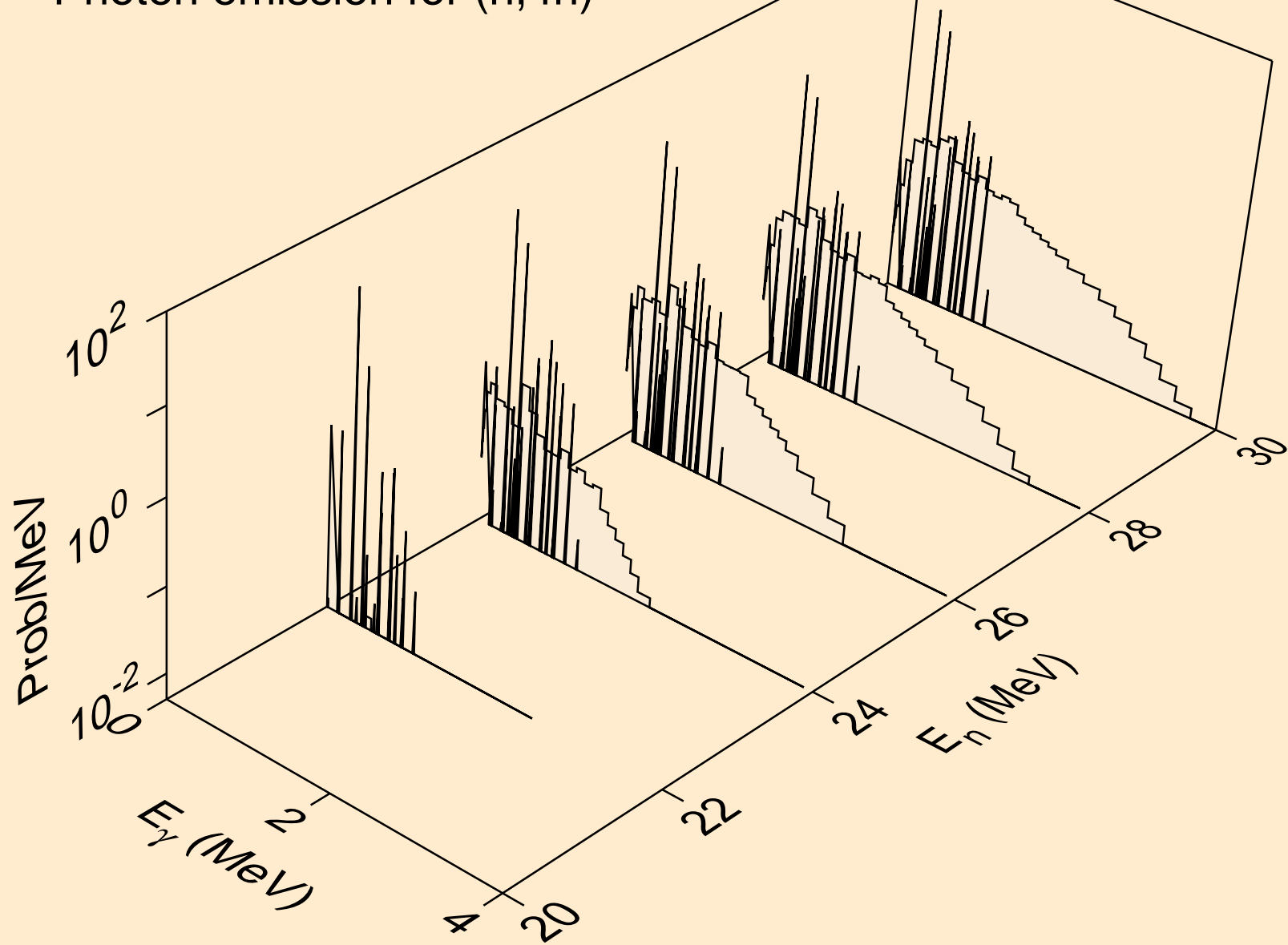
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Photon emission for (n,n\*)t



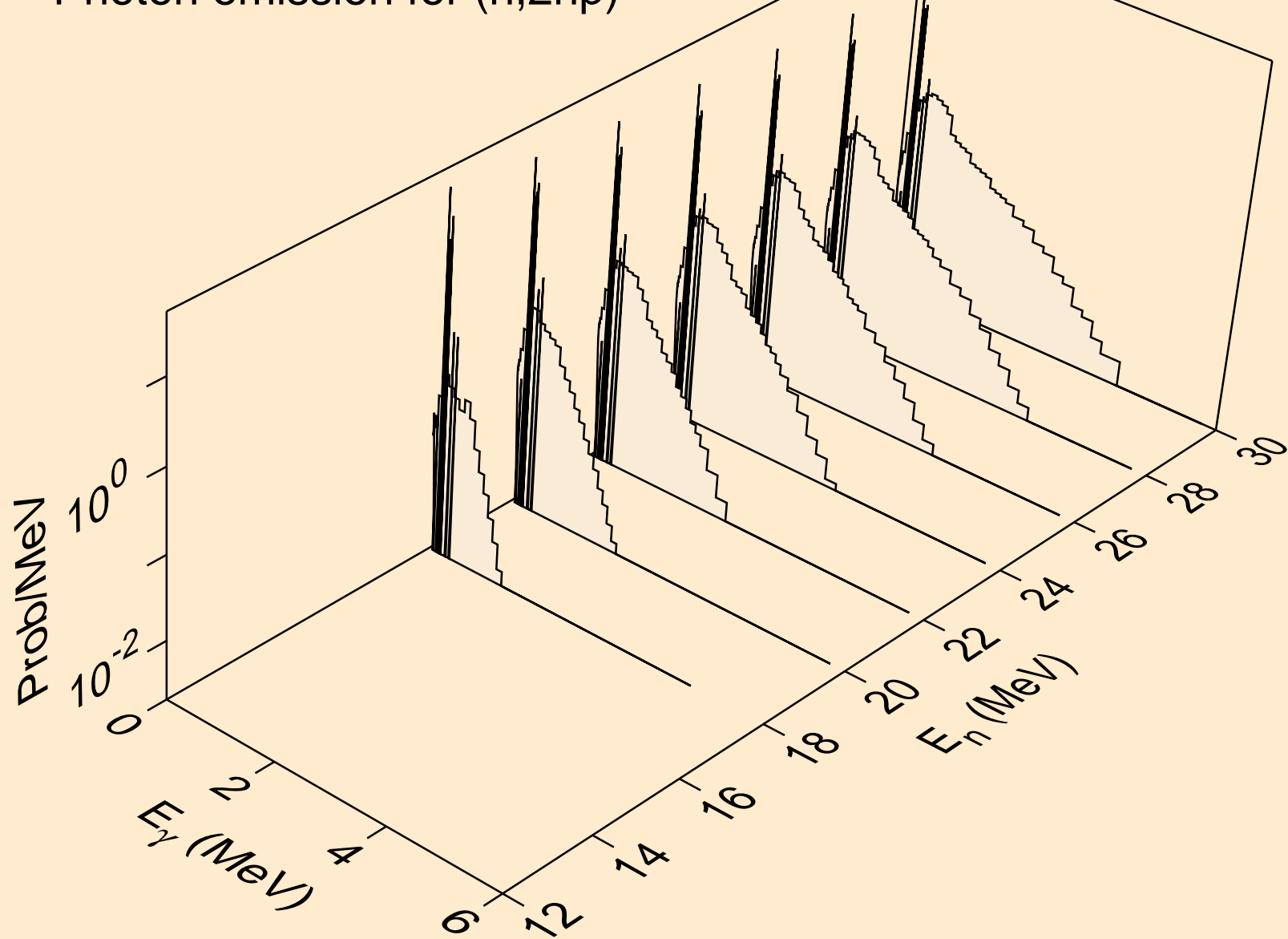
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Photon emission for (n,n\*)he3



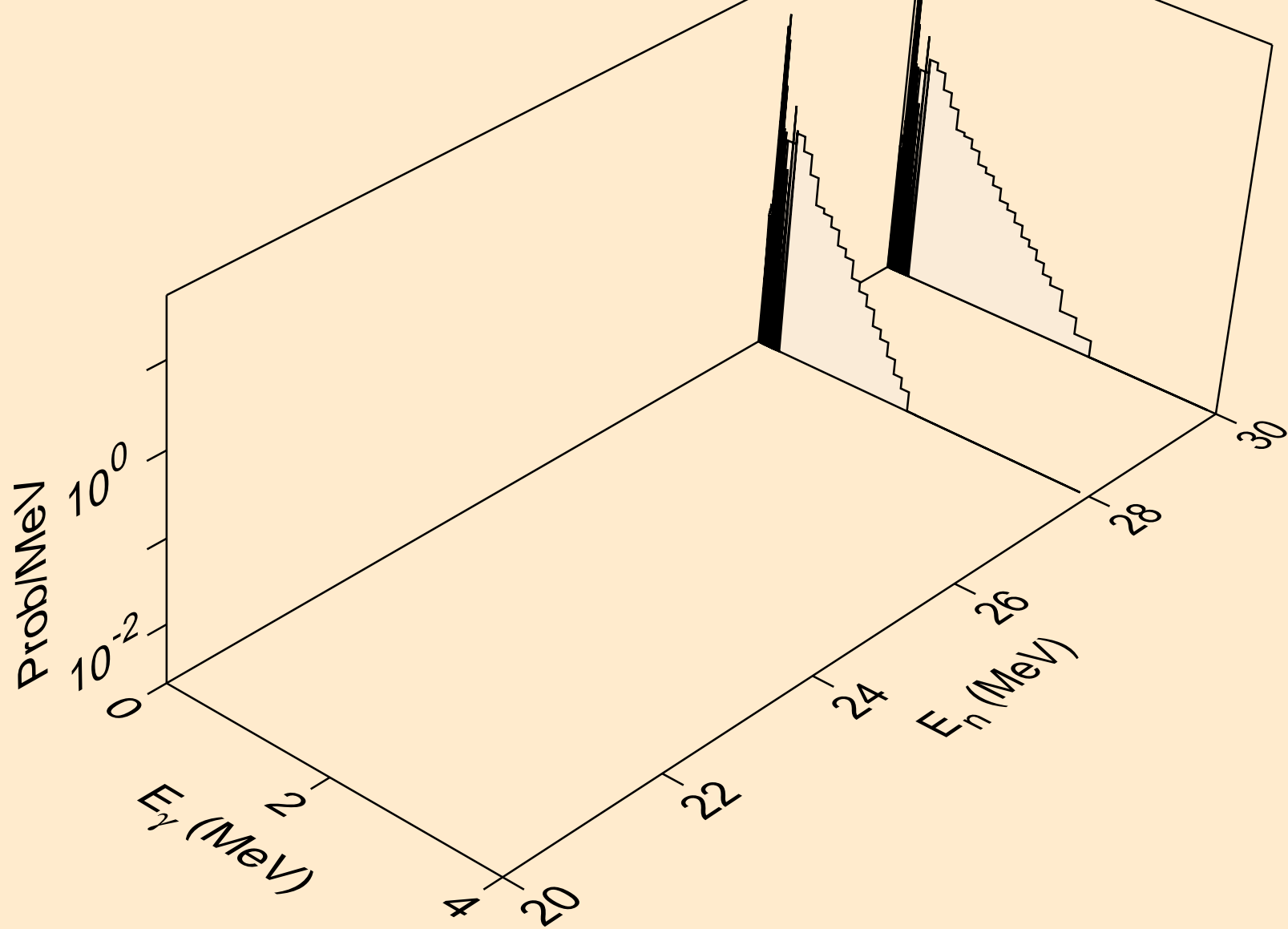
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Photon emission for (n,4n)



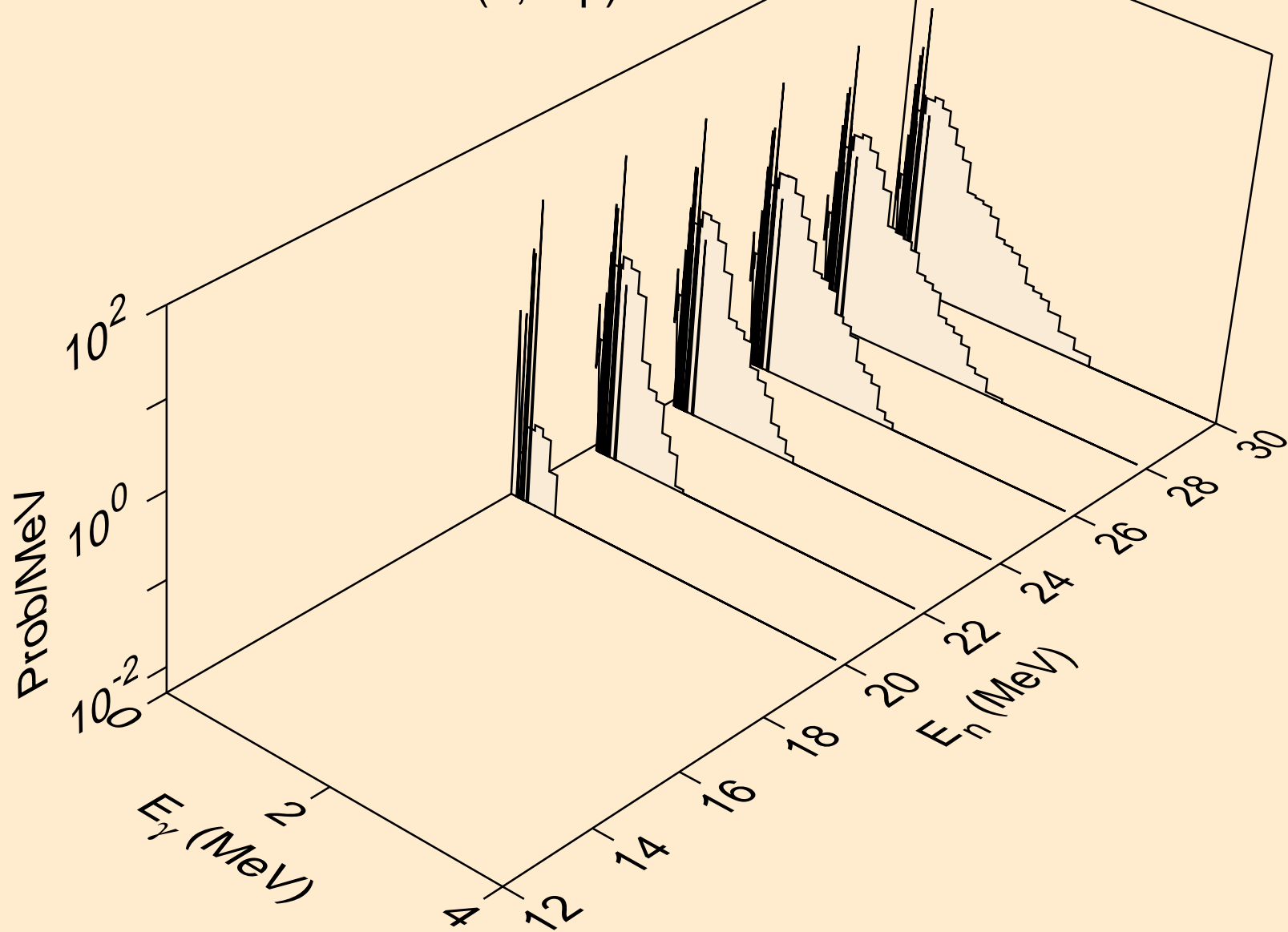
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Photon emission for (n,2np)



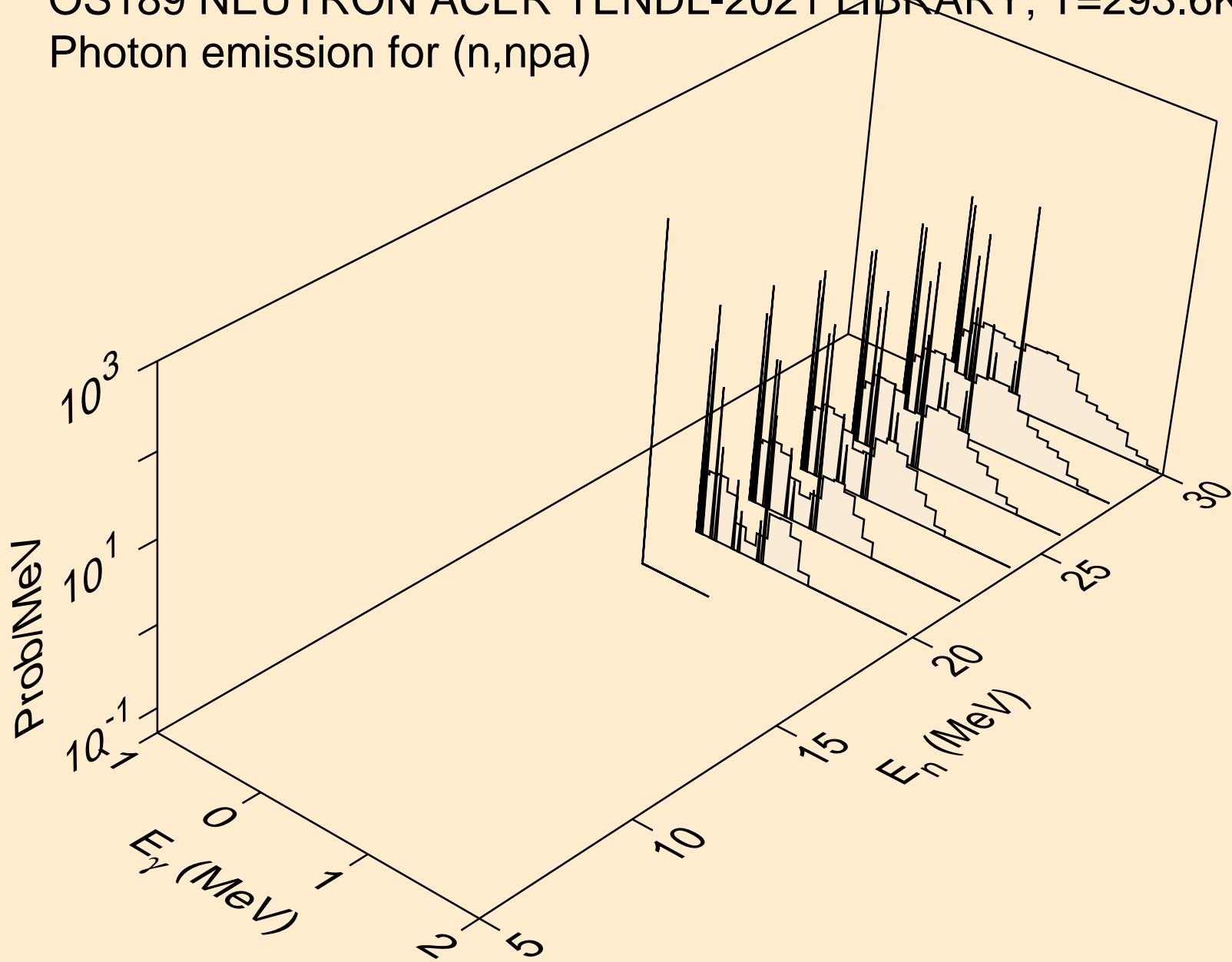
OS189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,3np)



OS189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,2np)

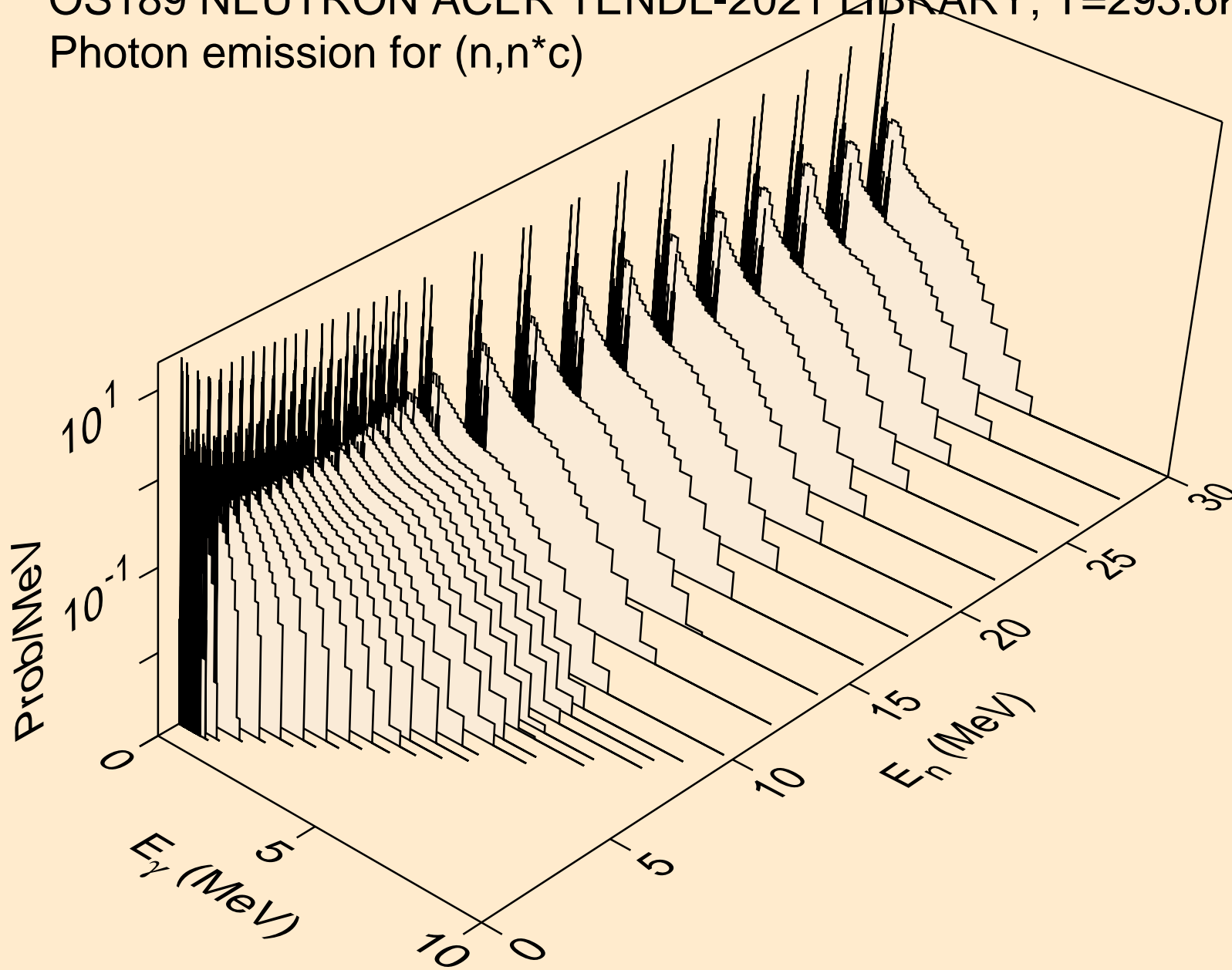


OS189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,npa)

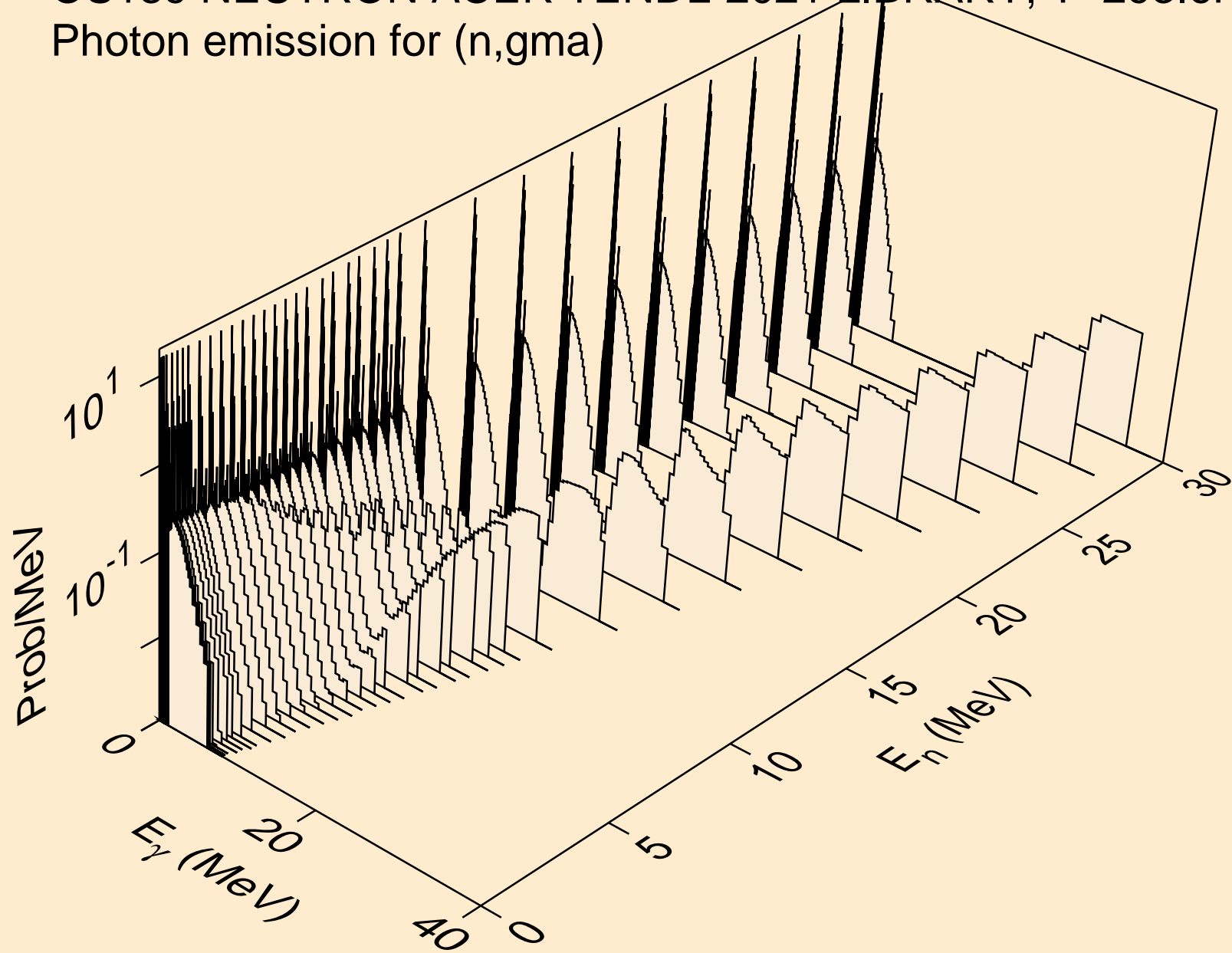




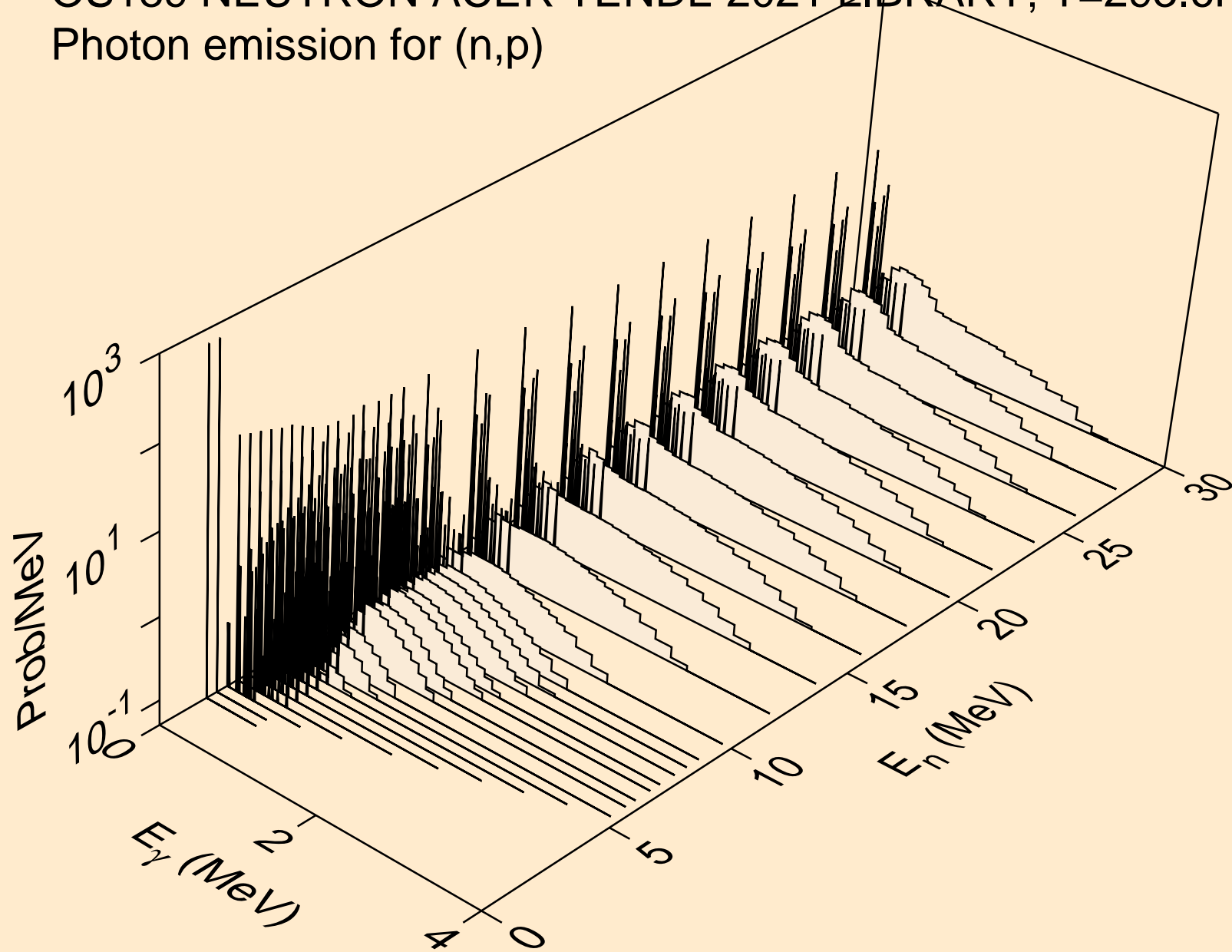
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Photon emission for (n,n\*c)



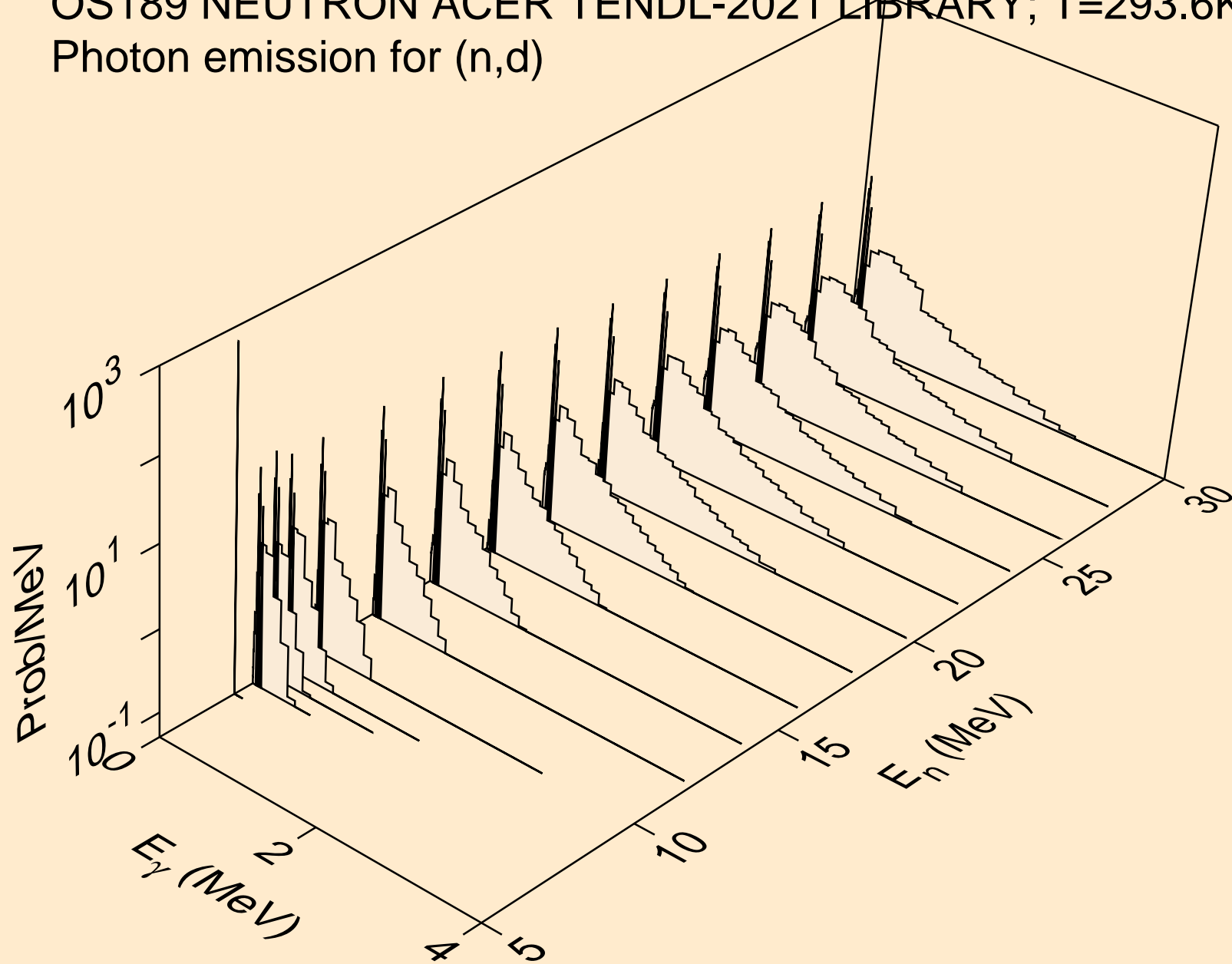
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Photon emission for (n,gma)



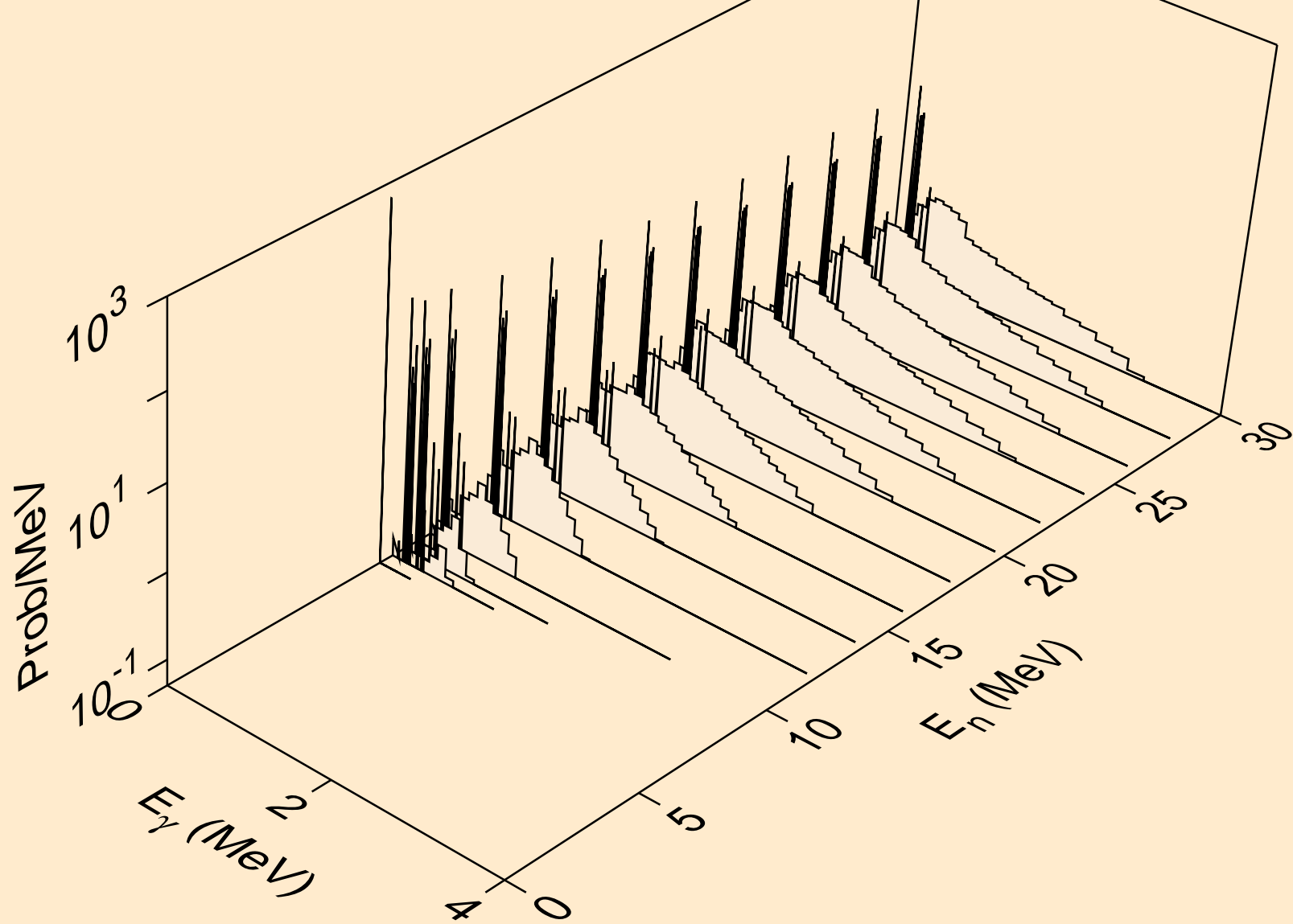
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Photon emission for (n,p)



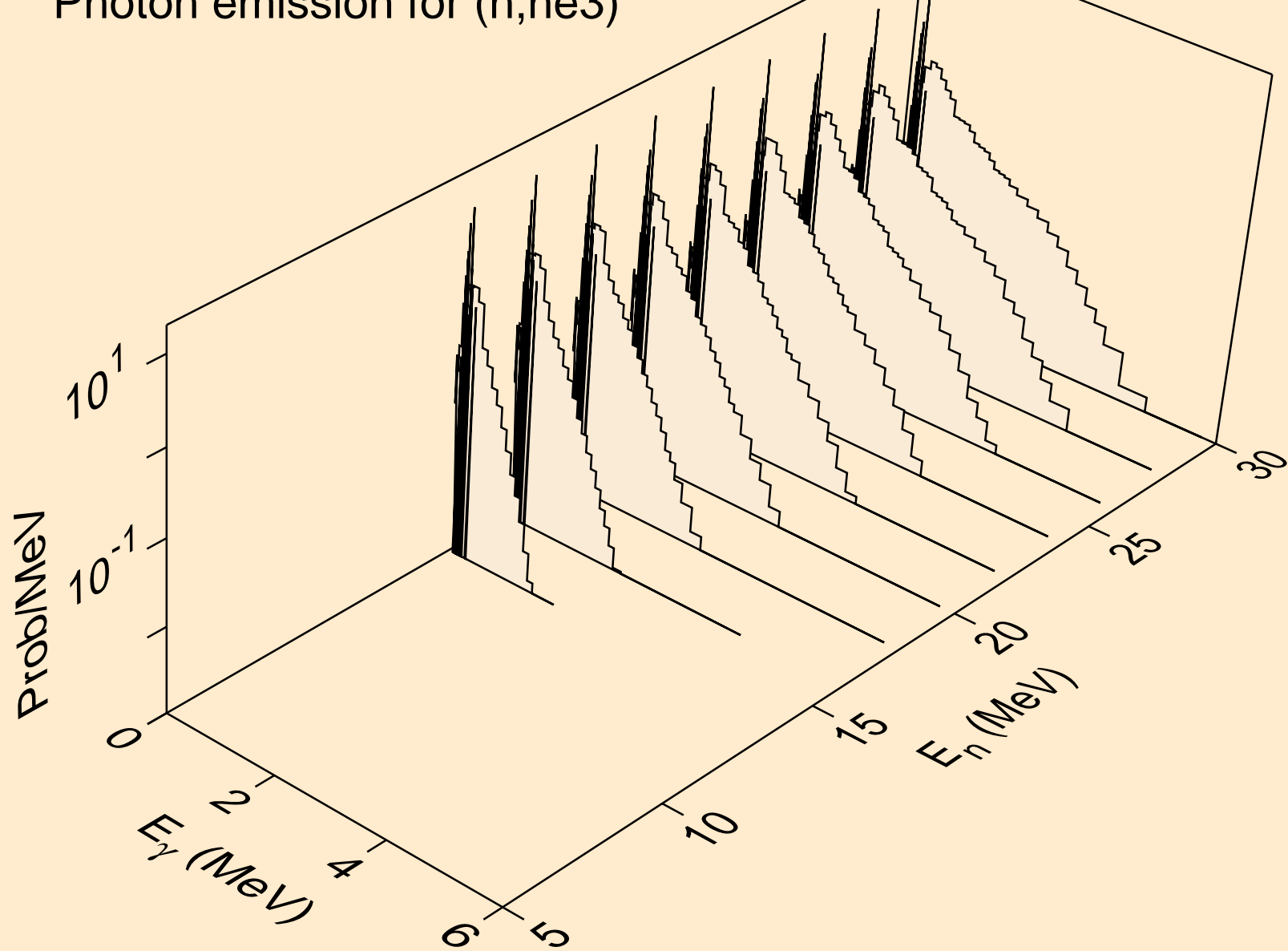
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Photon emission for (n,d)



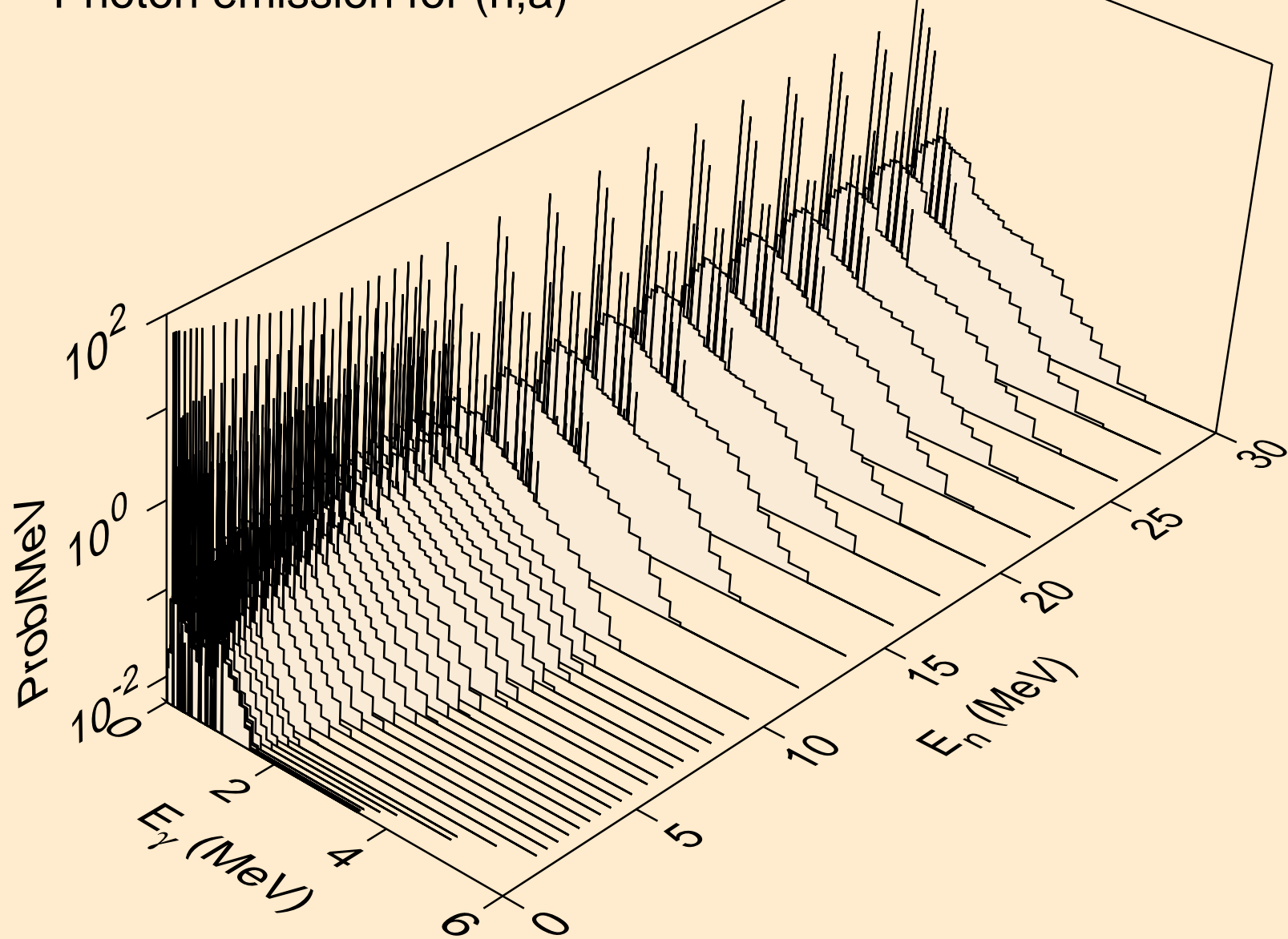
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Photon emission for (n,t)



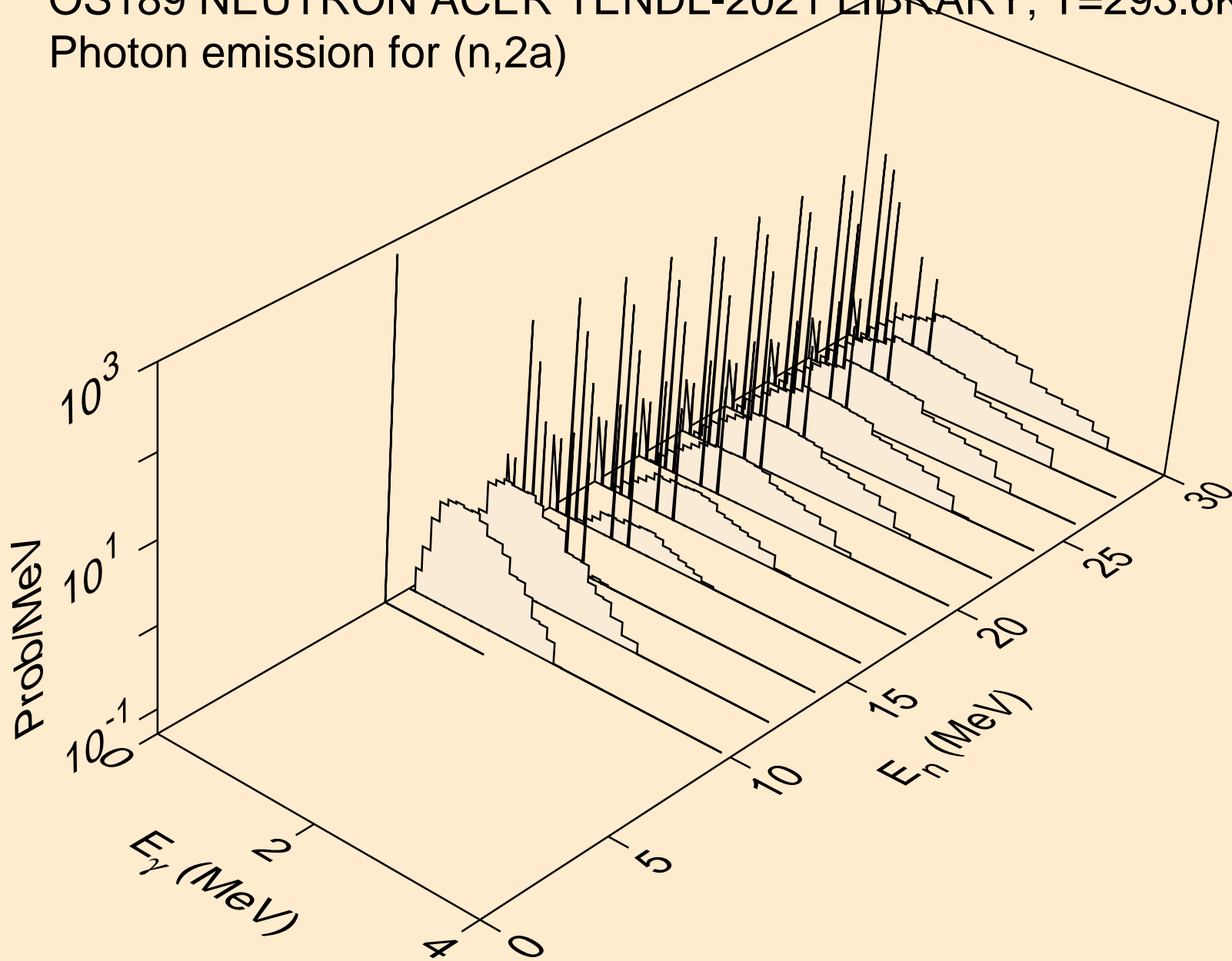
OS189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,he3)



OS189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,a)

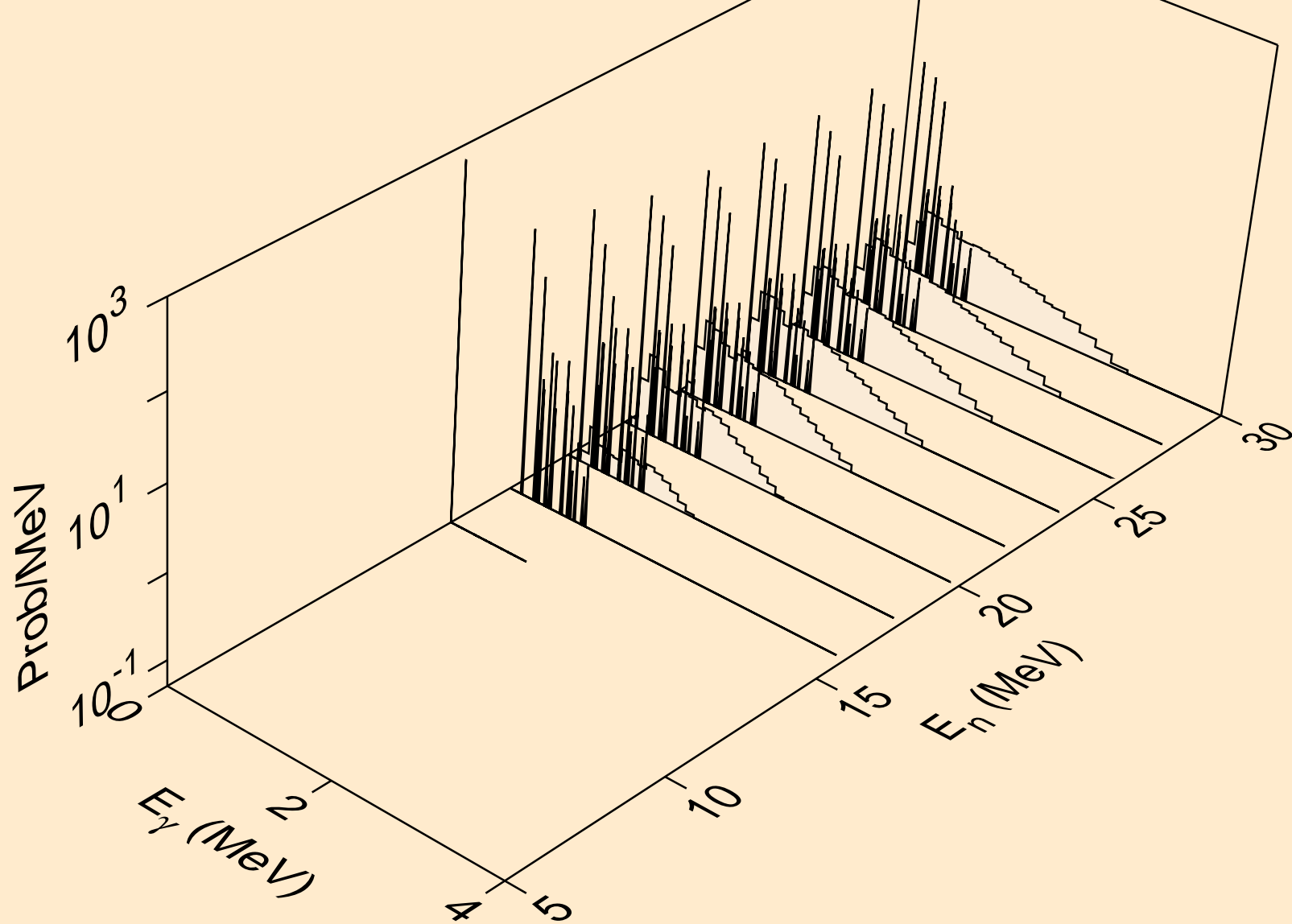


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Photon emission for (n,2a)

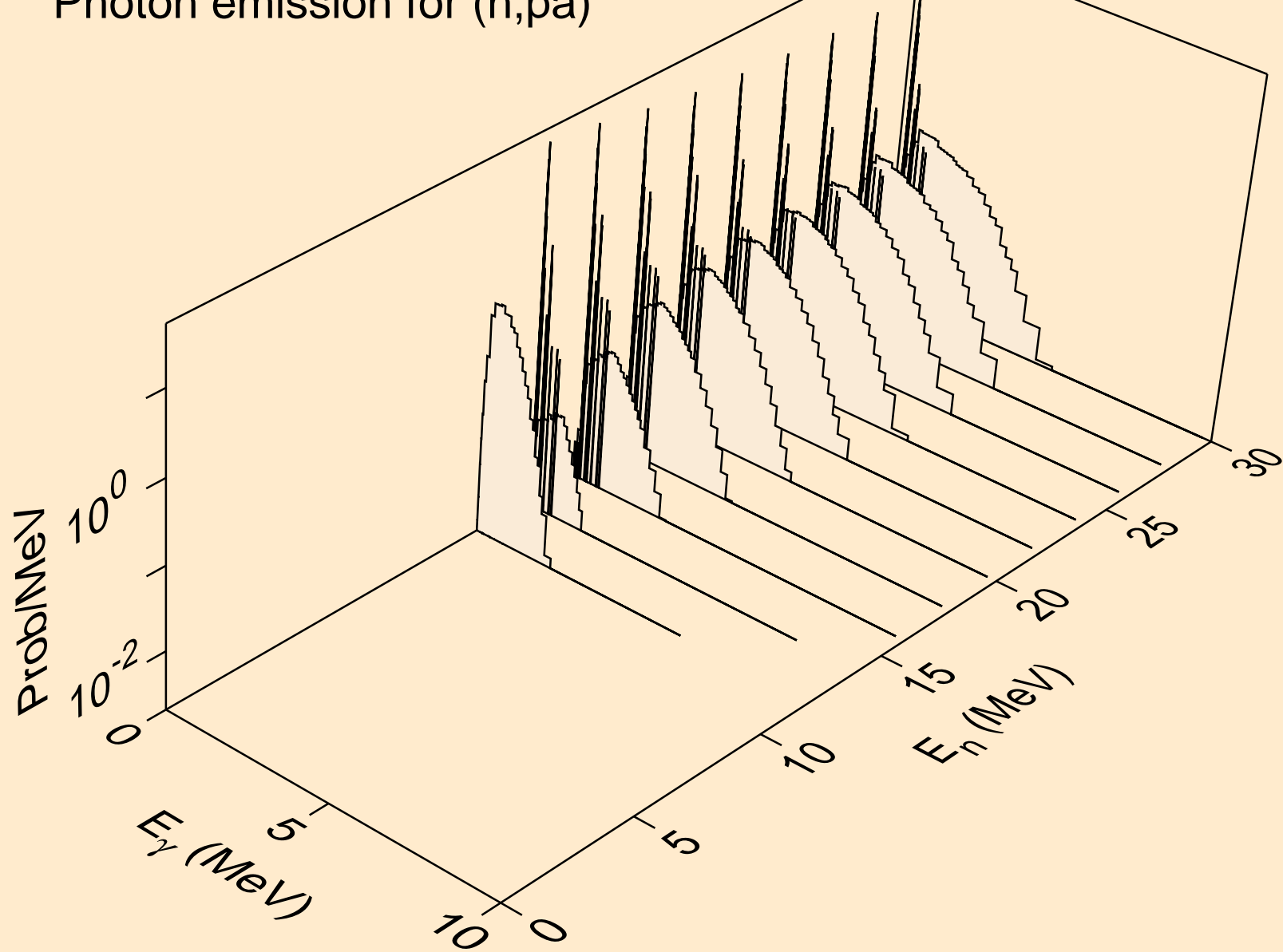




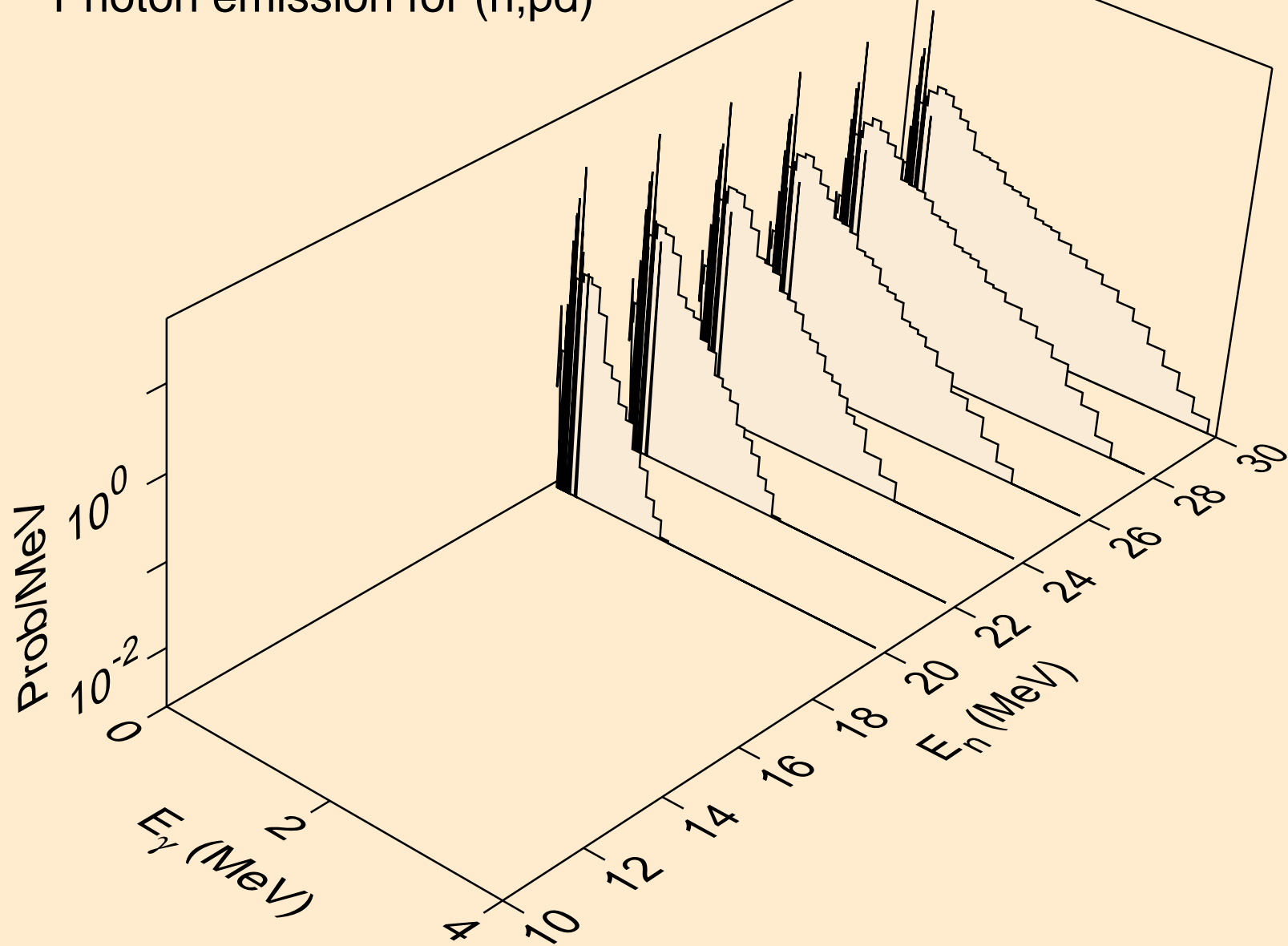
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Photon emission for (n,2p)



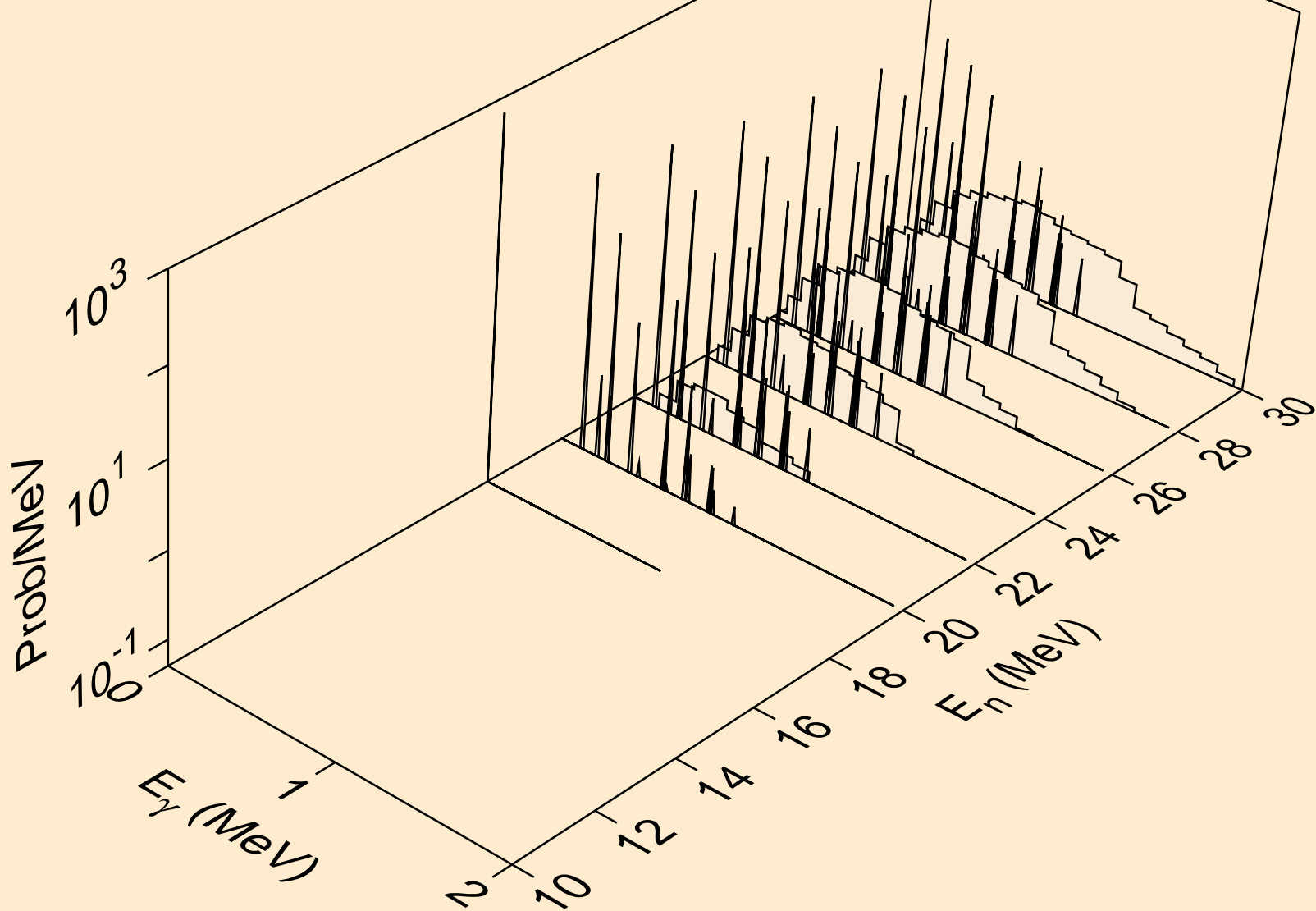
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Photon emission for (n,p $\alpha$ )



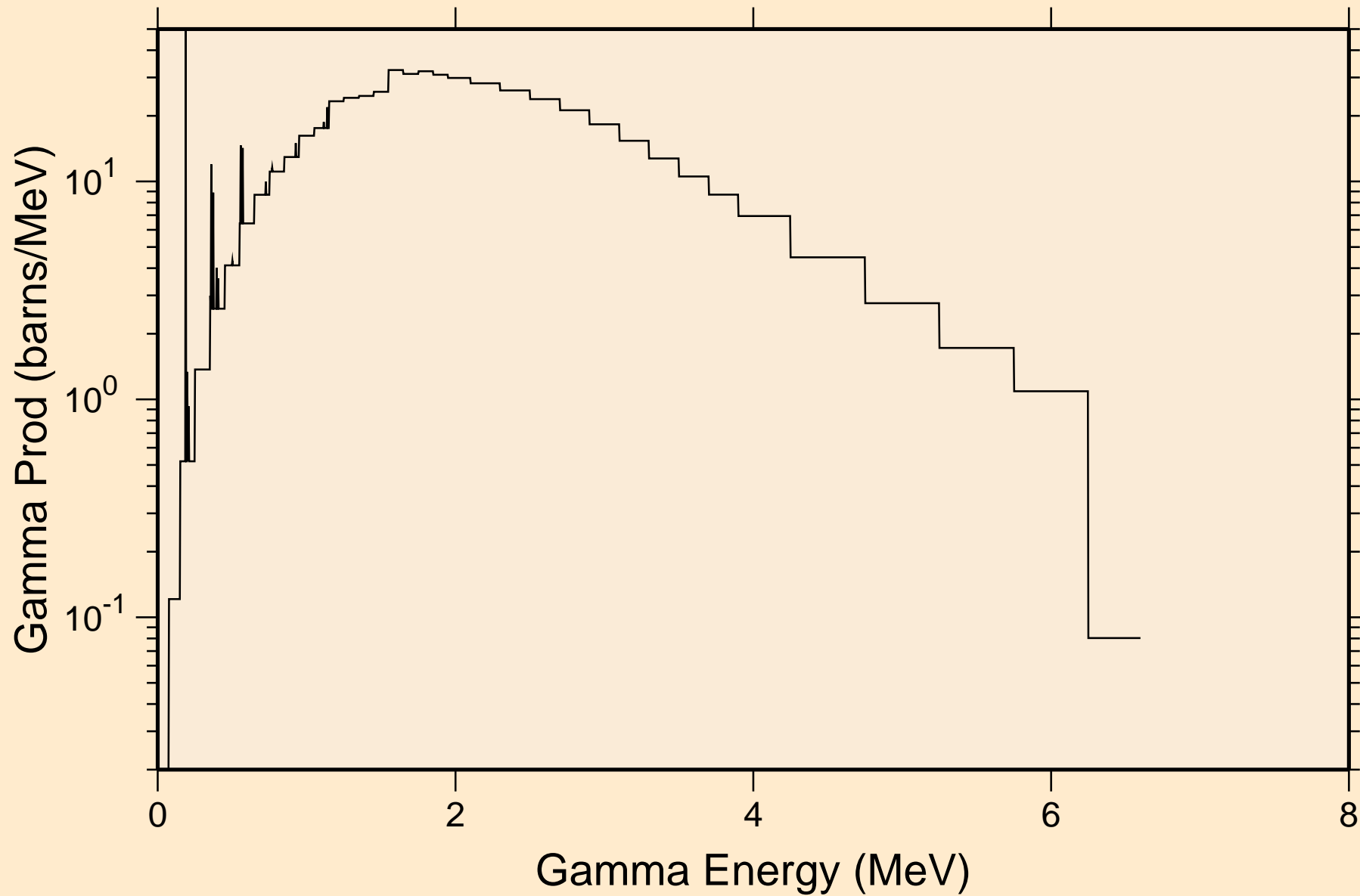
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Photon emission for (n,pd)



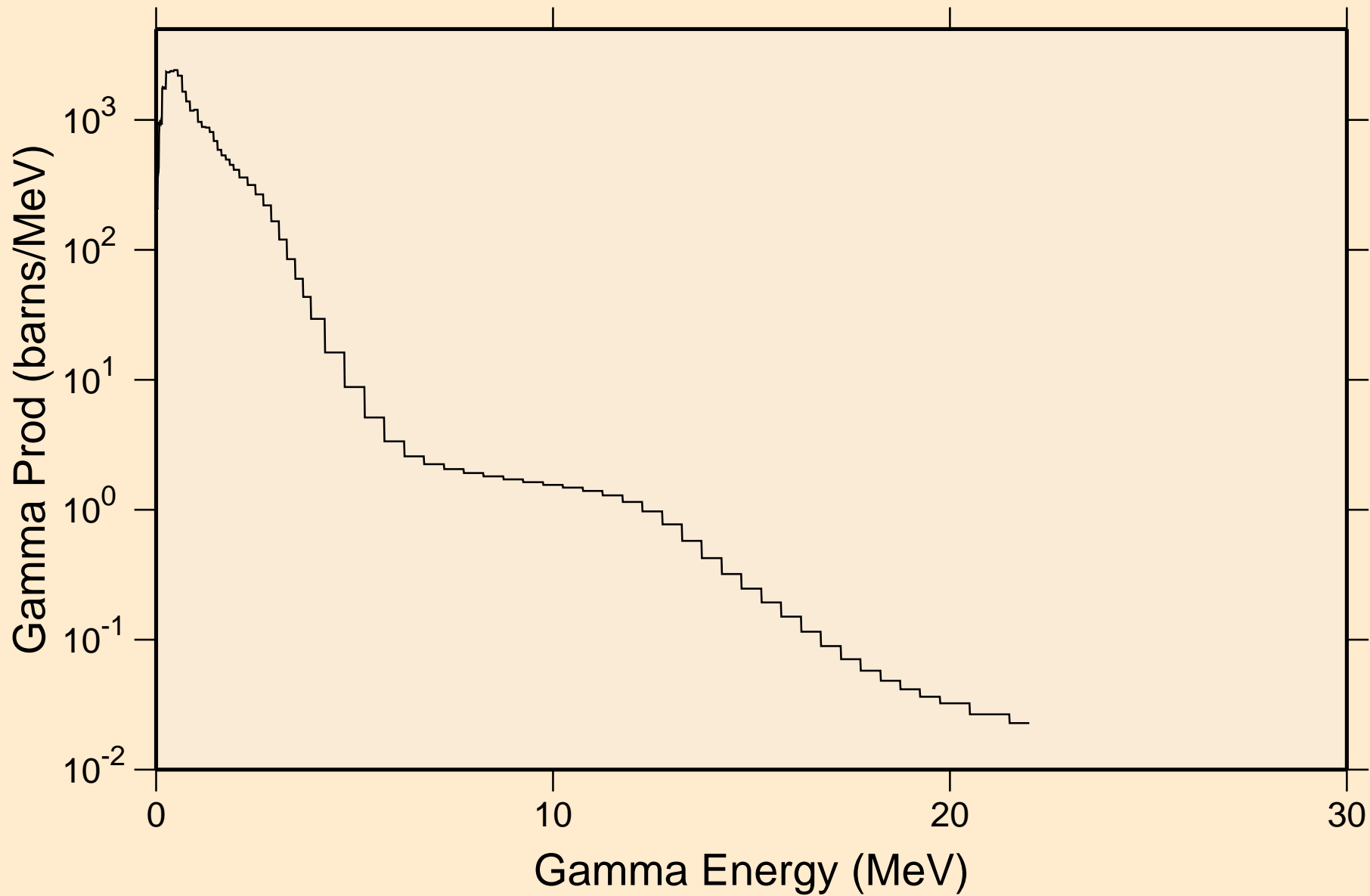
OS189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,pt)



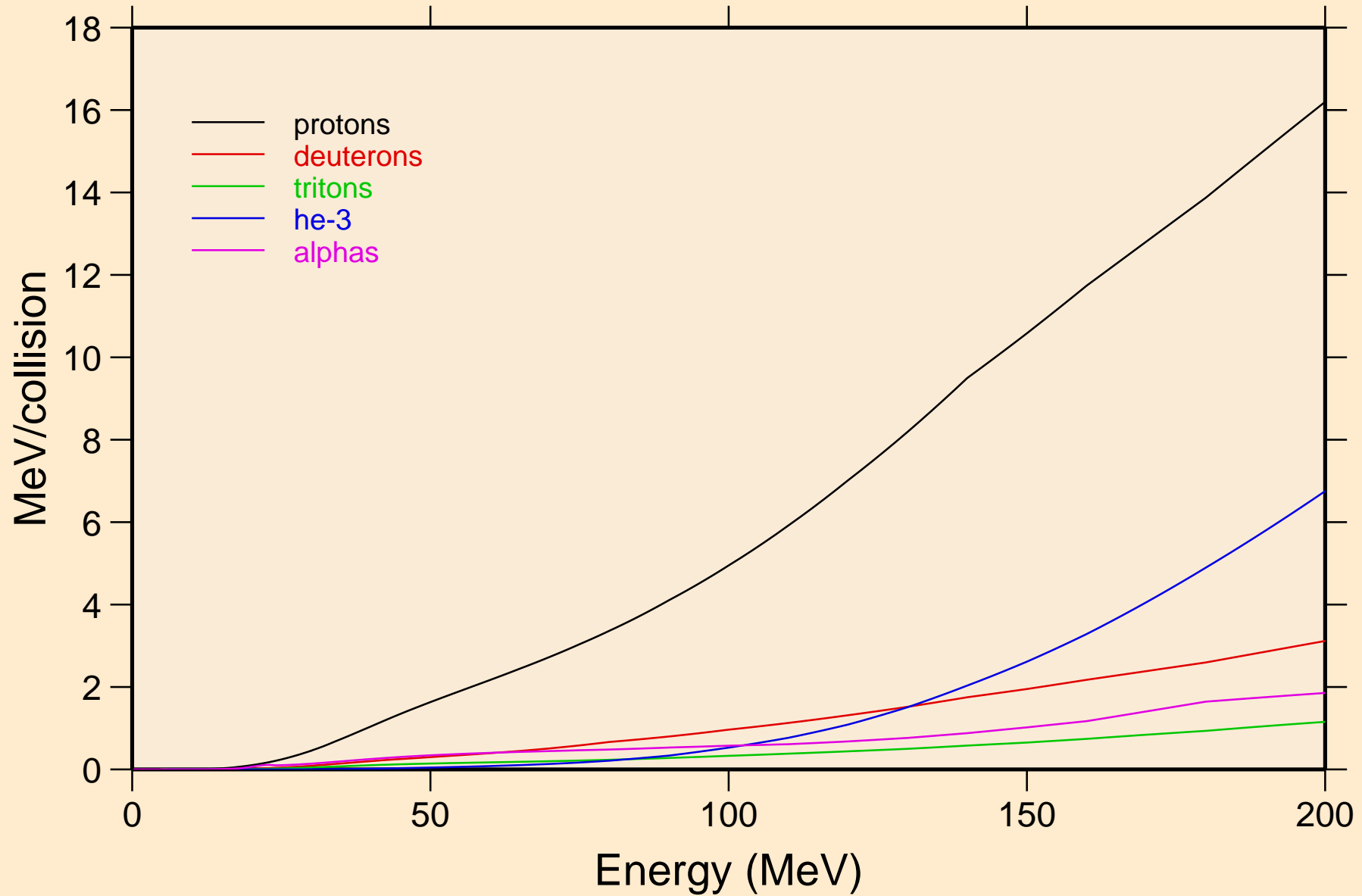
OS189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
thermal capture photon spectrum



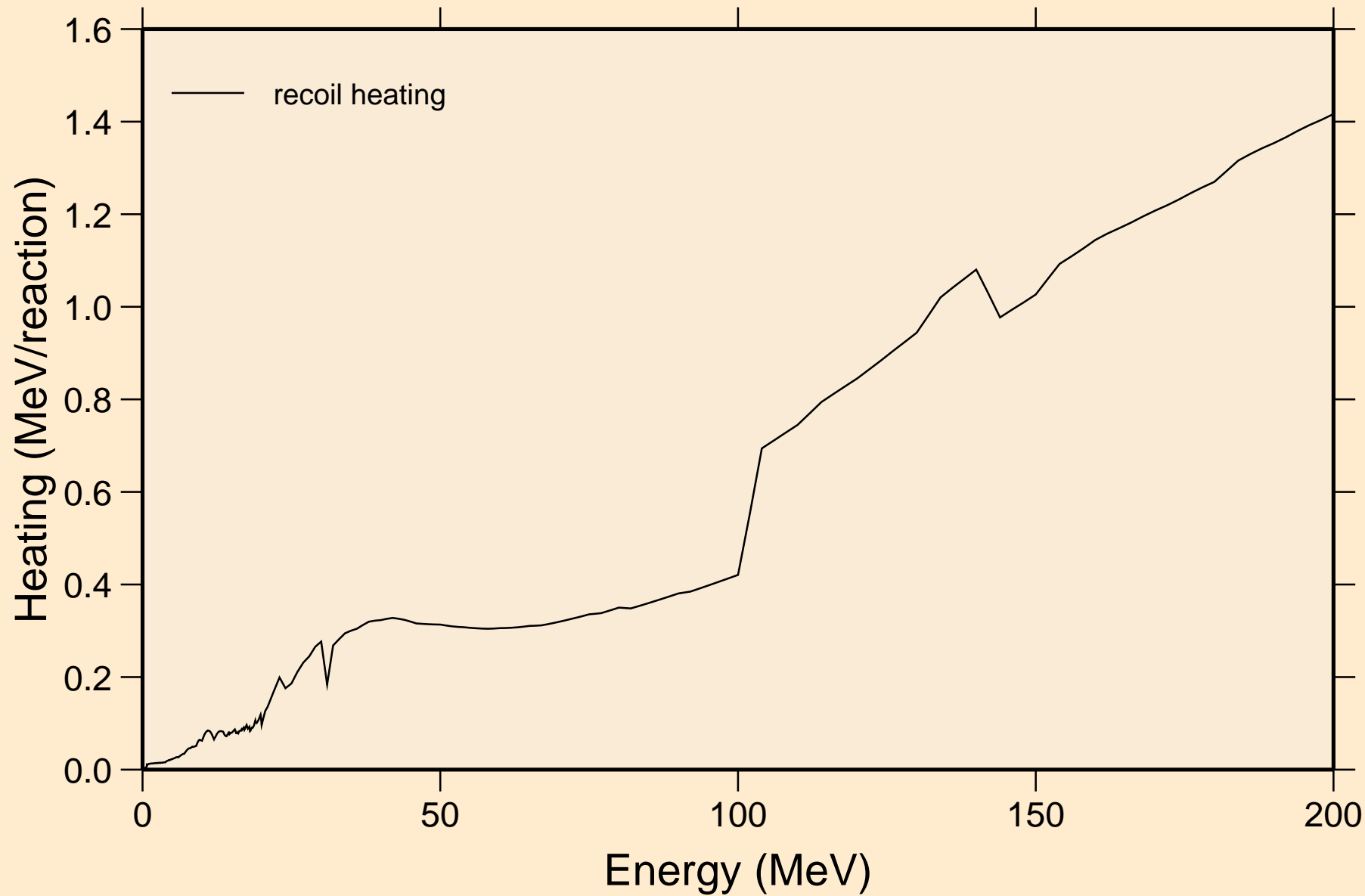
OS189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
14 MeV photon spectrum



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Particle heating contributions

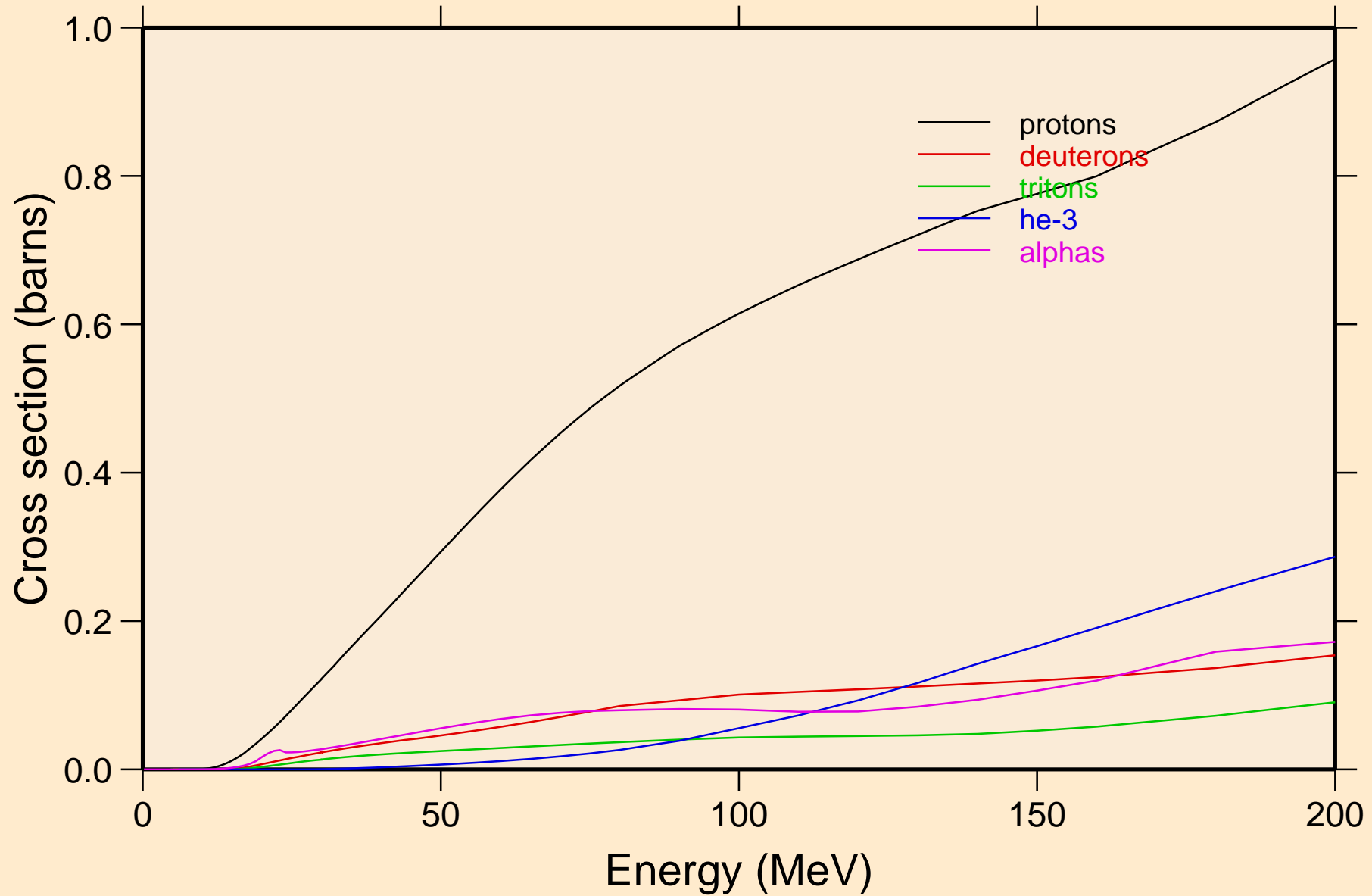


OS189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Recoil Heating

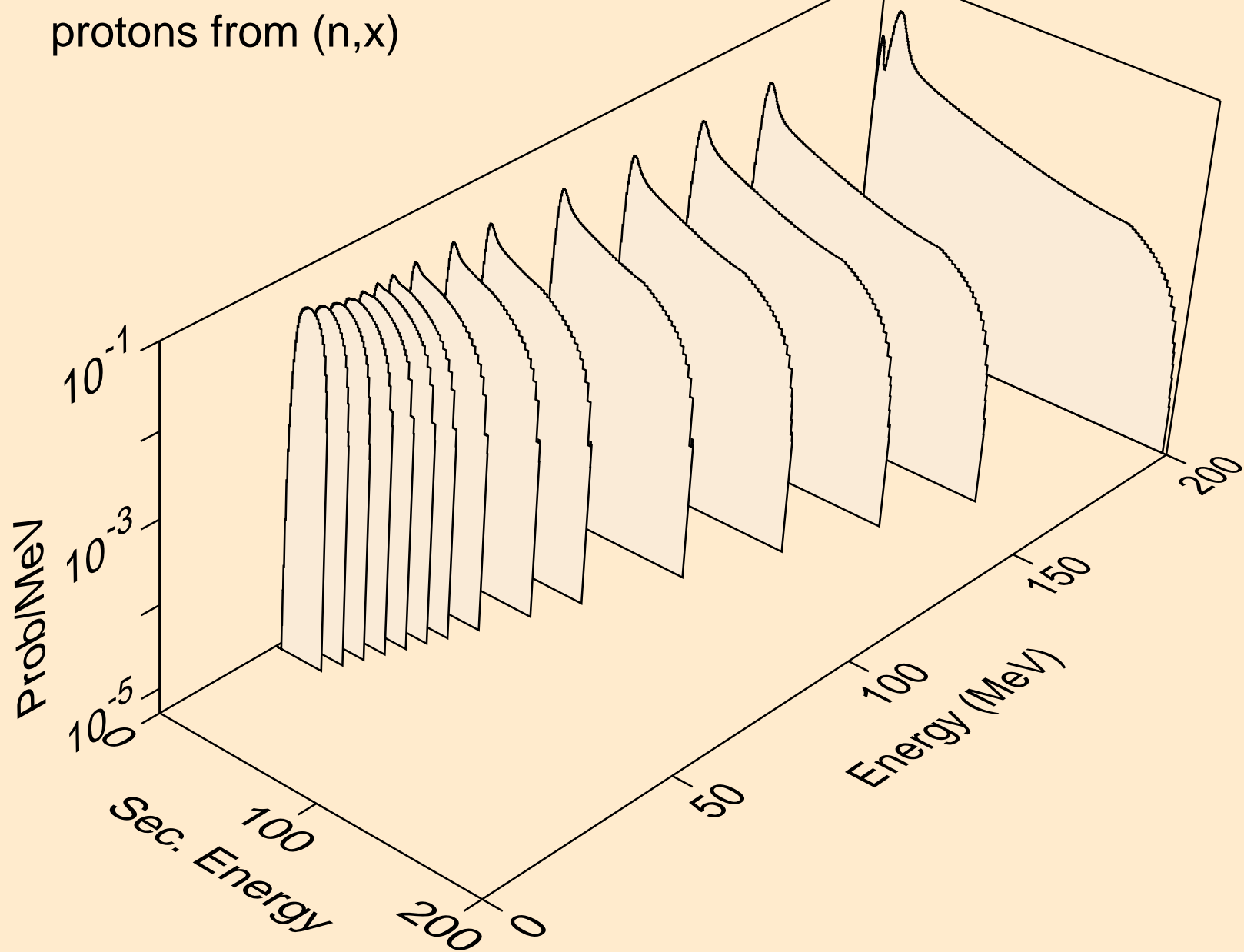




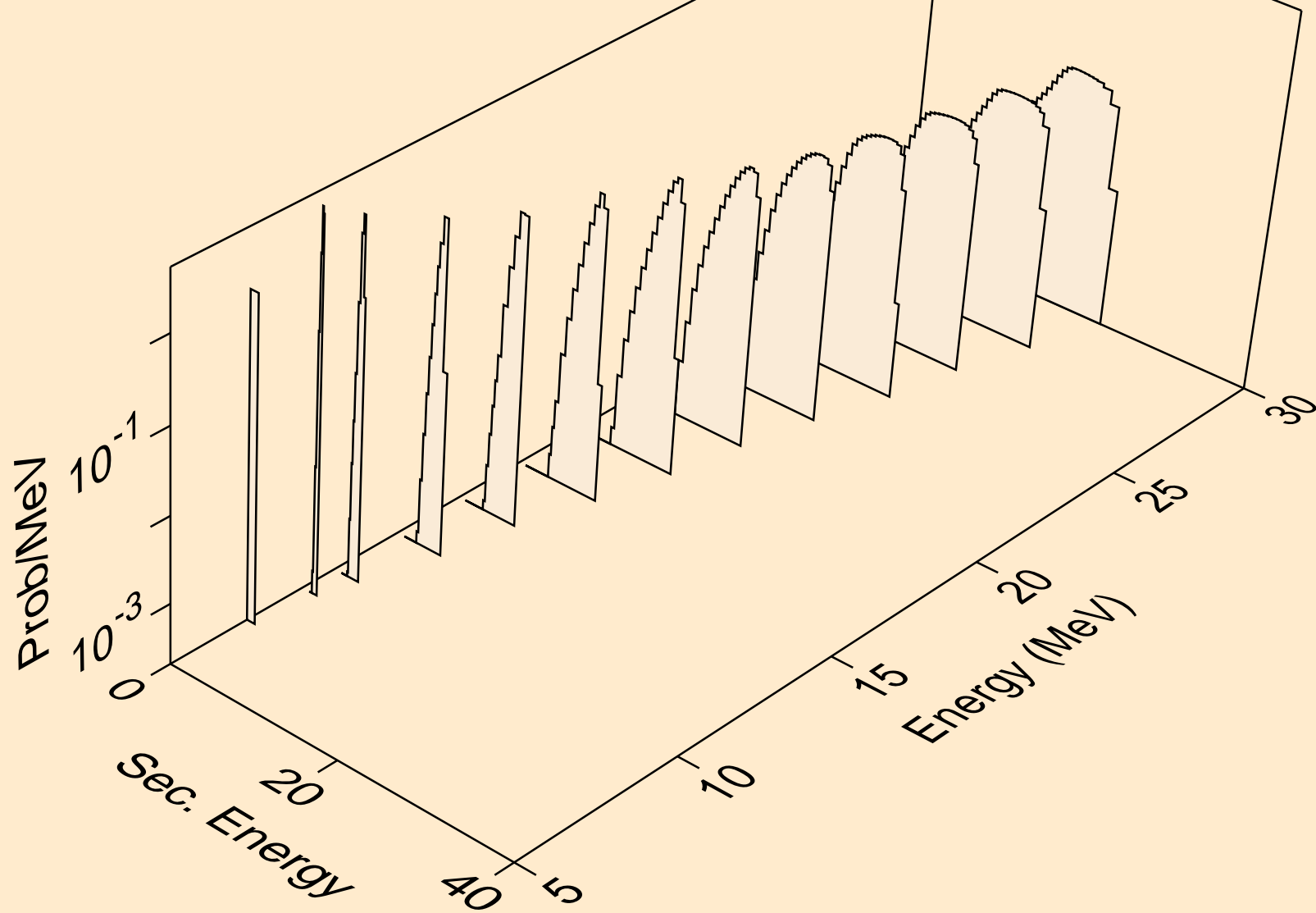
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Particle production cross sections



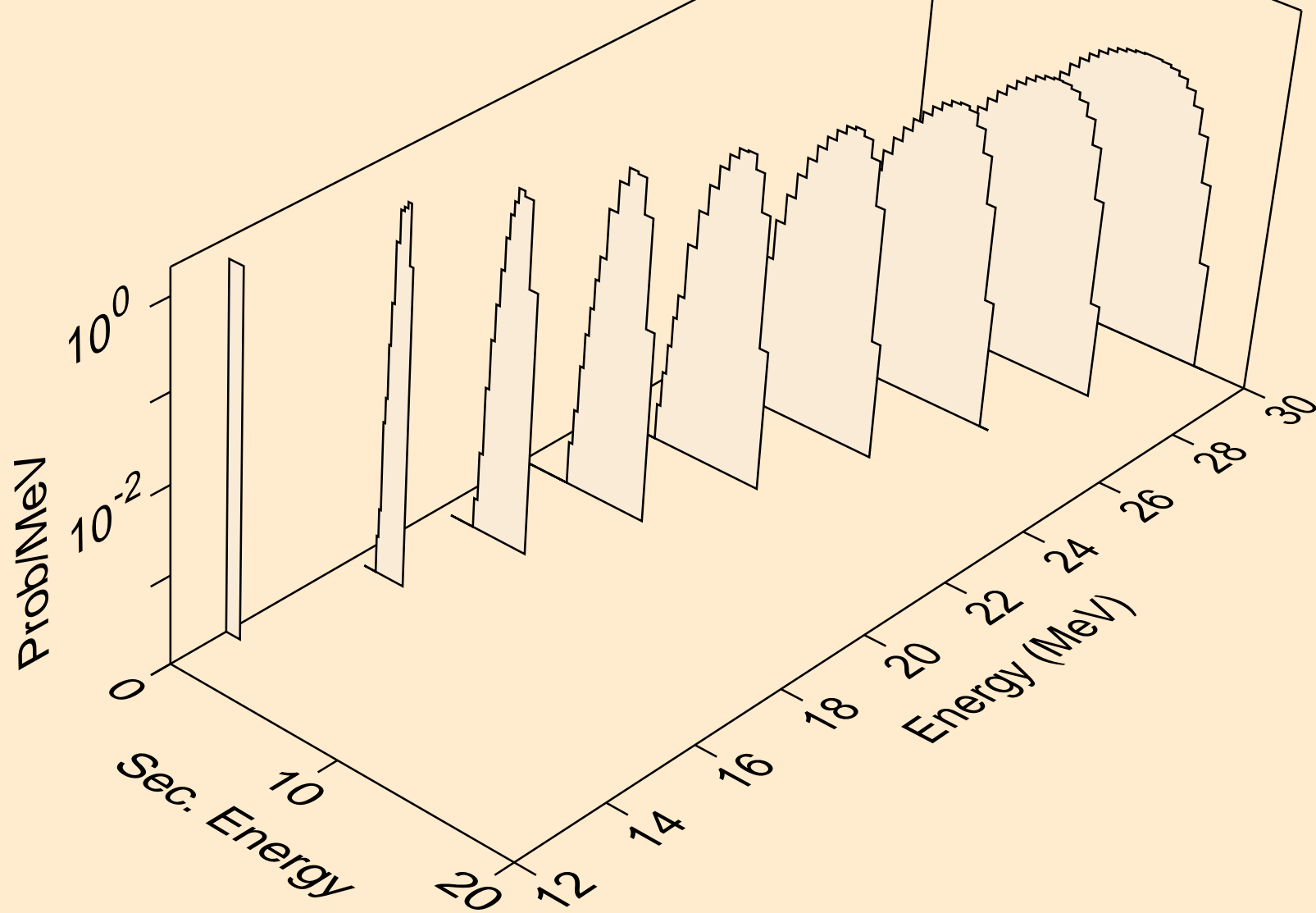
OS189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
protons from (n,x)



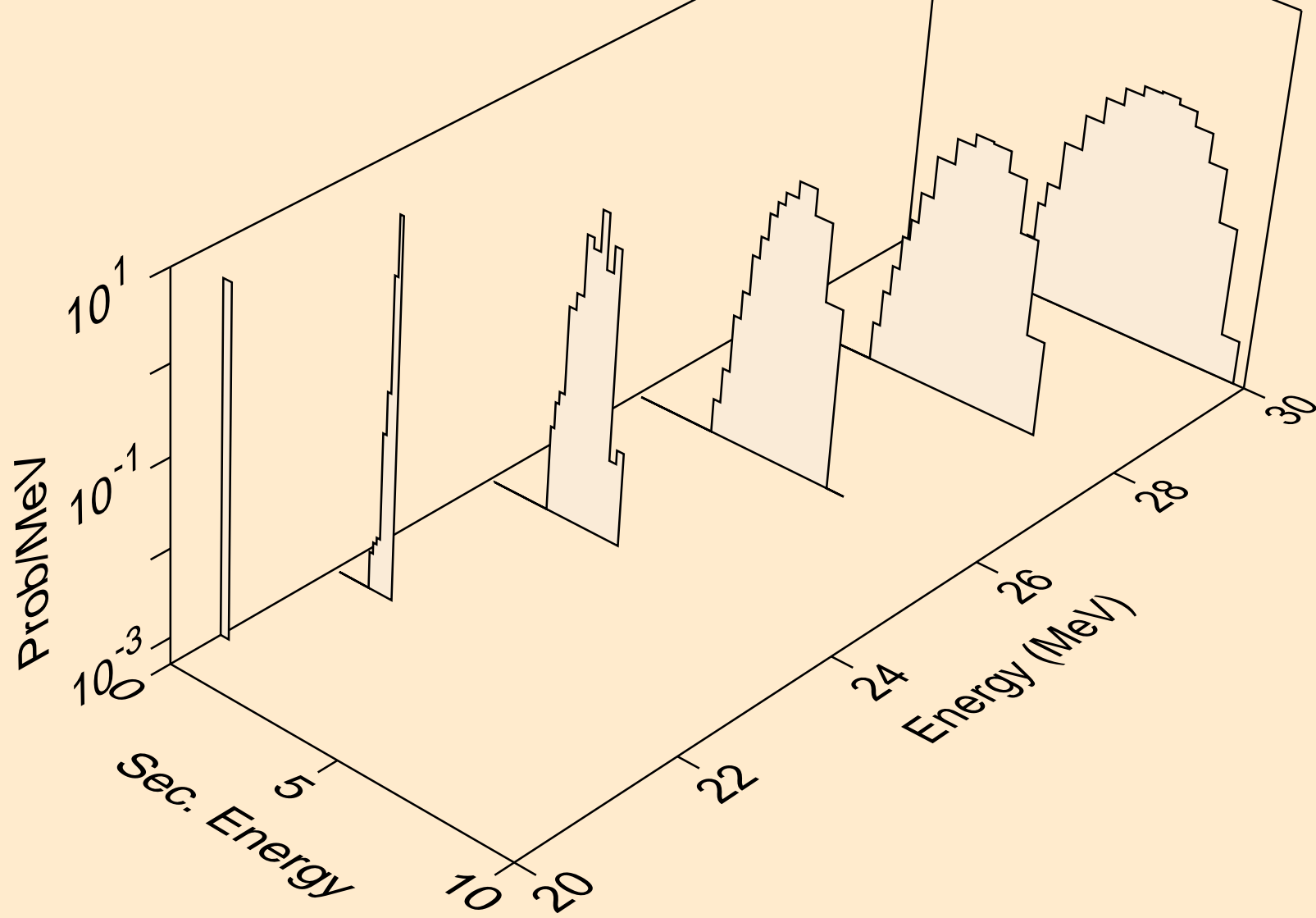
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protons from (n,n\*)p



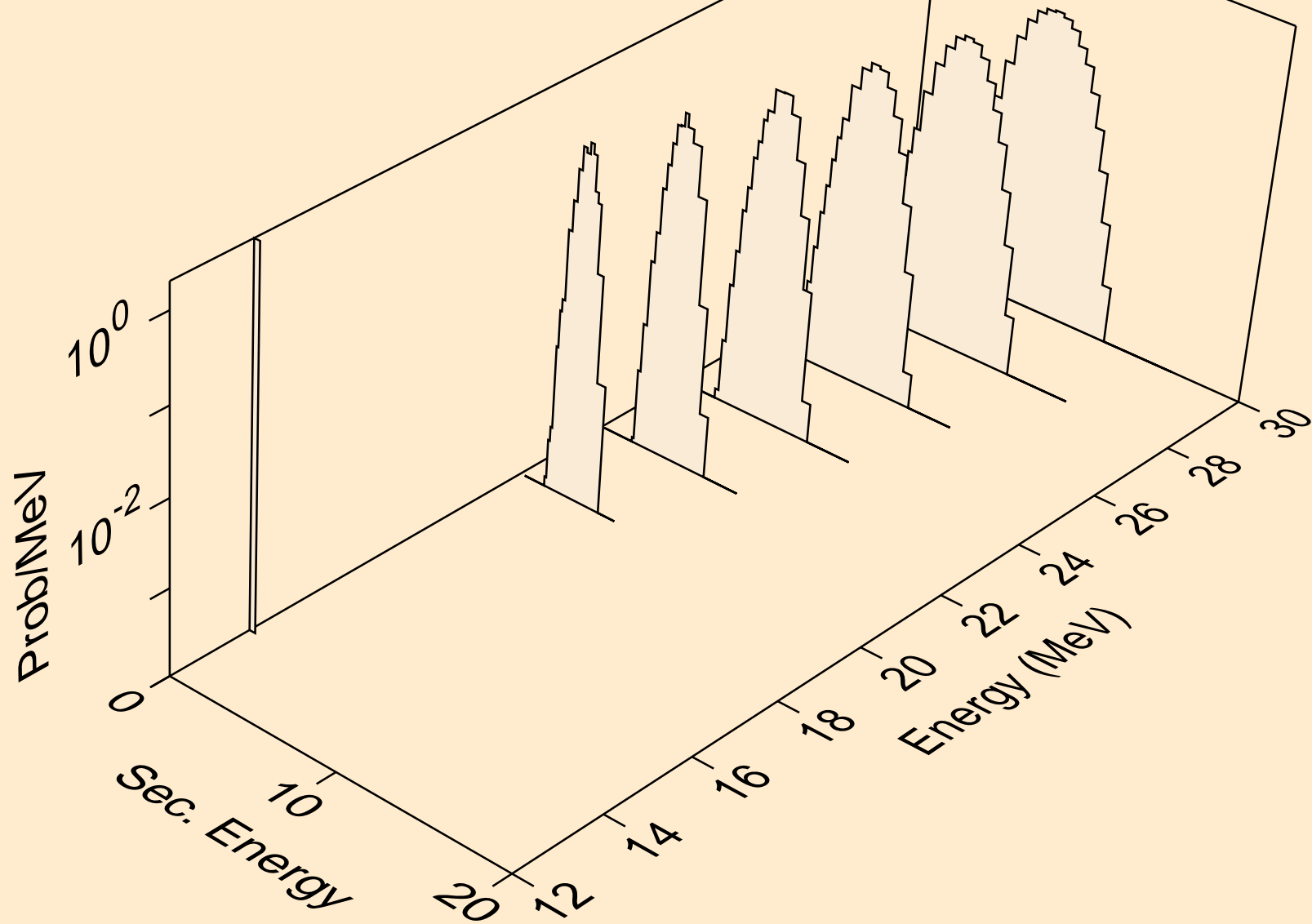
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protons from (n,2np)



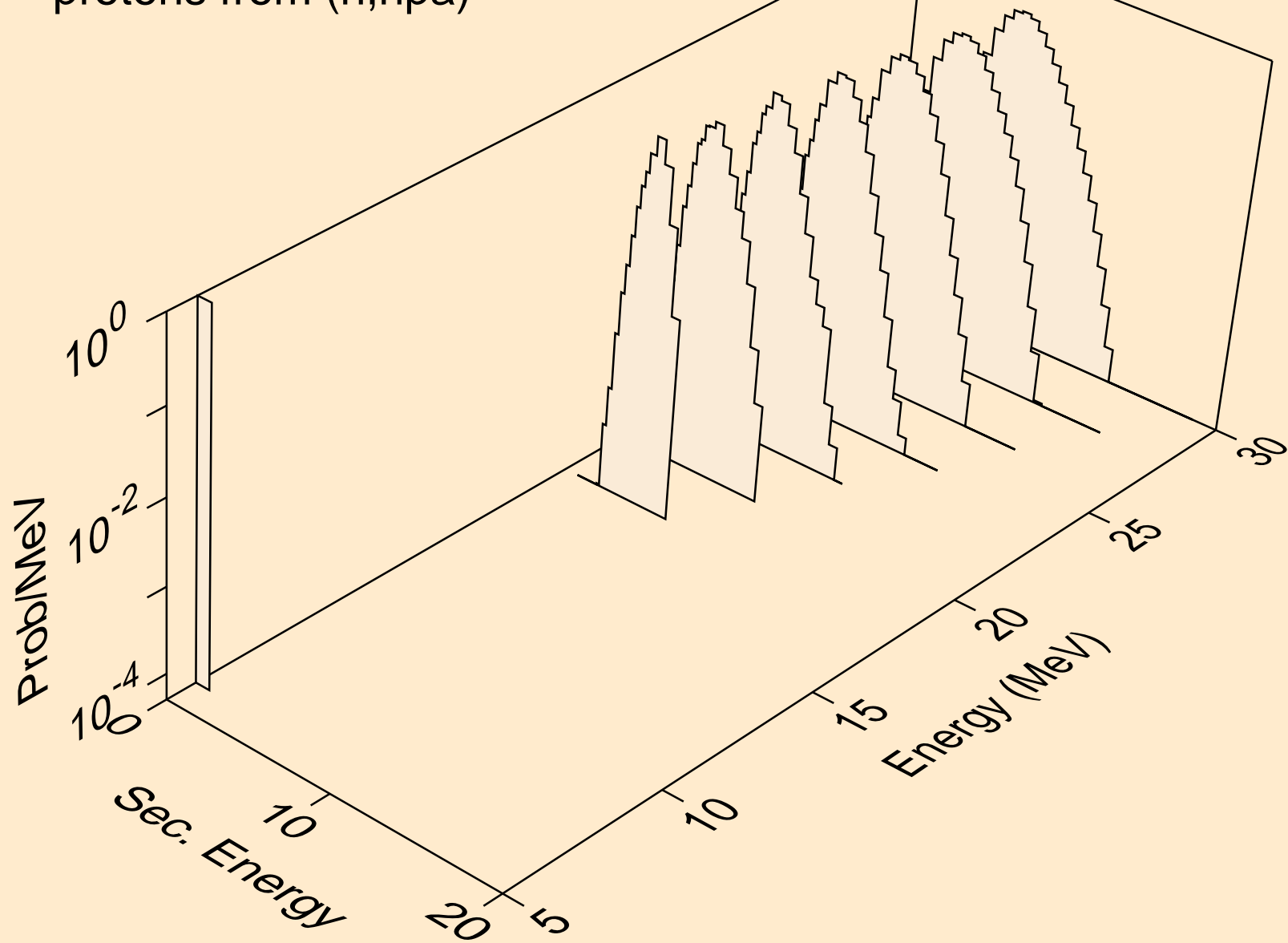
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protons from (n,3np)



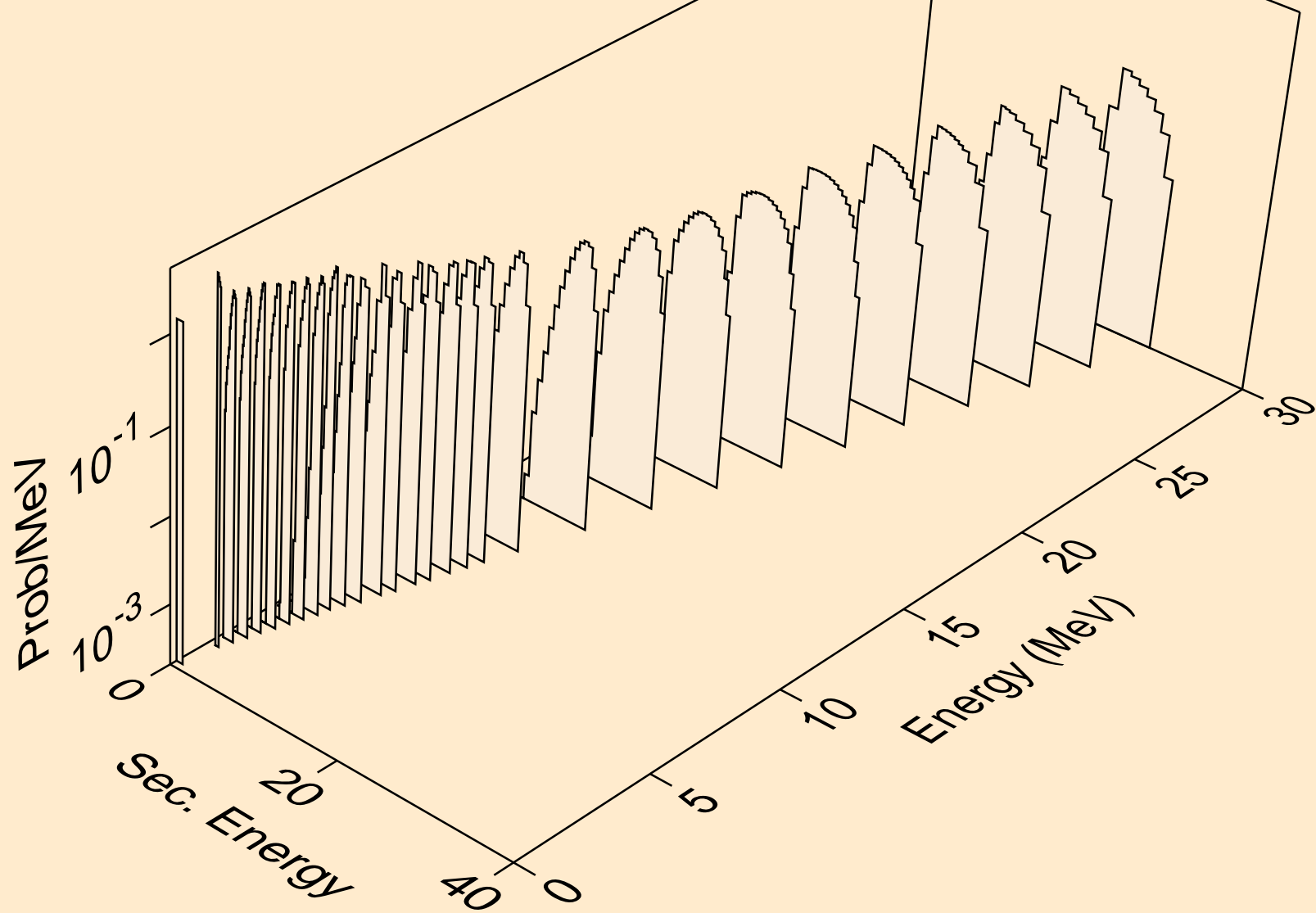
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protons from (n,2np)



OS189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
protons from (n,npa)

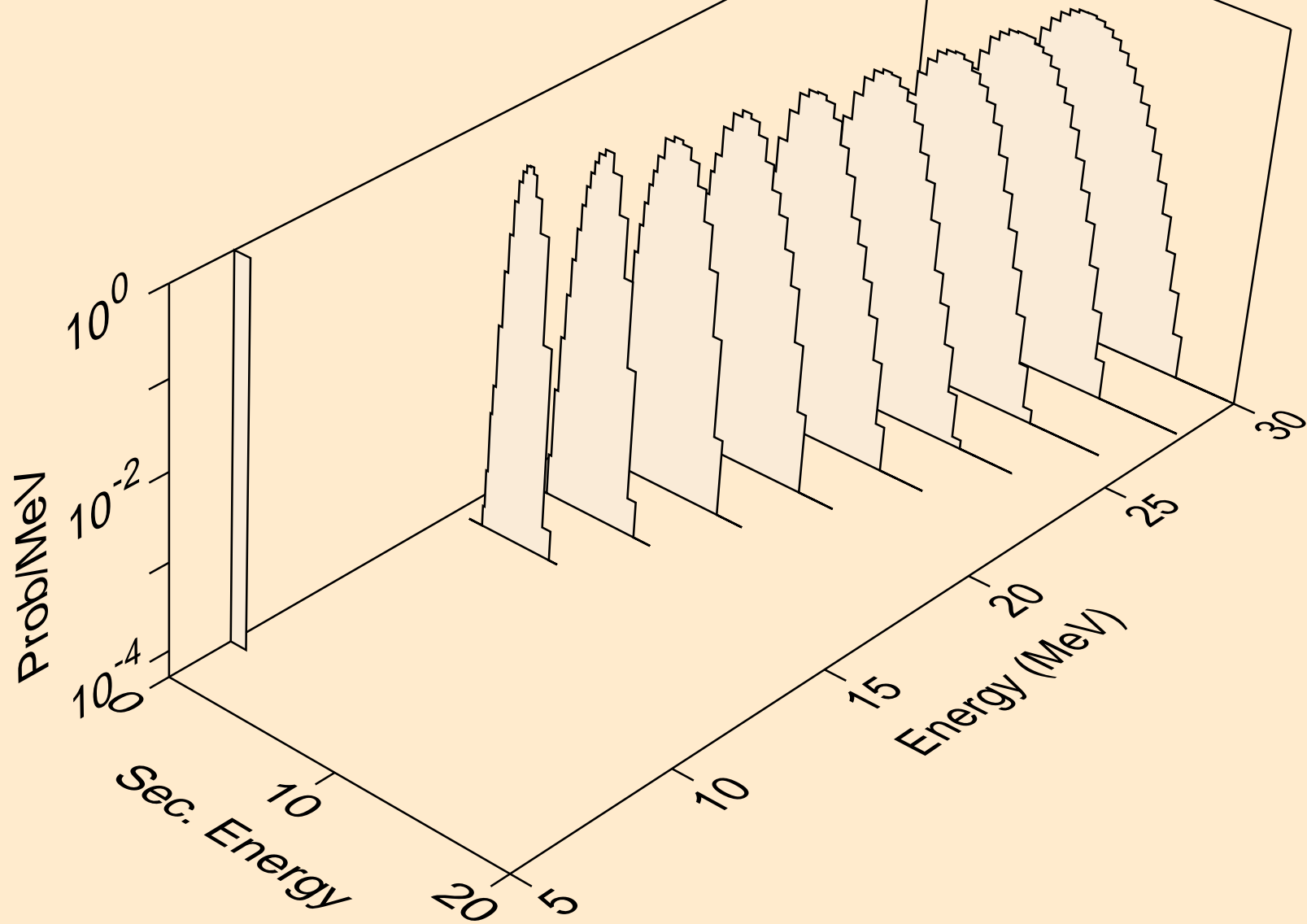


OS189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
protons from (n,p)

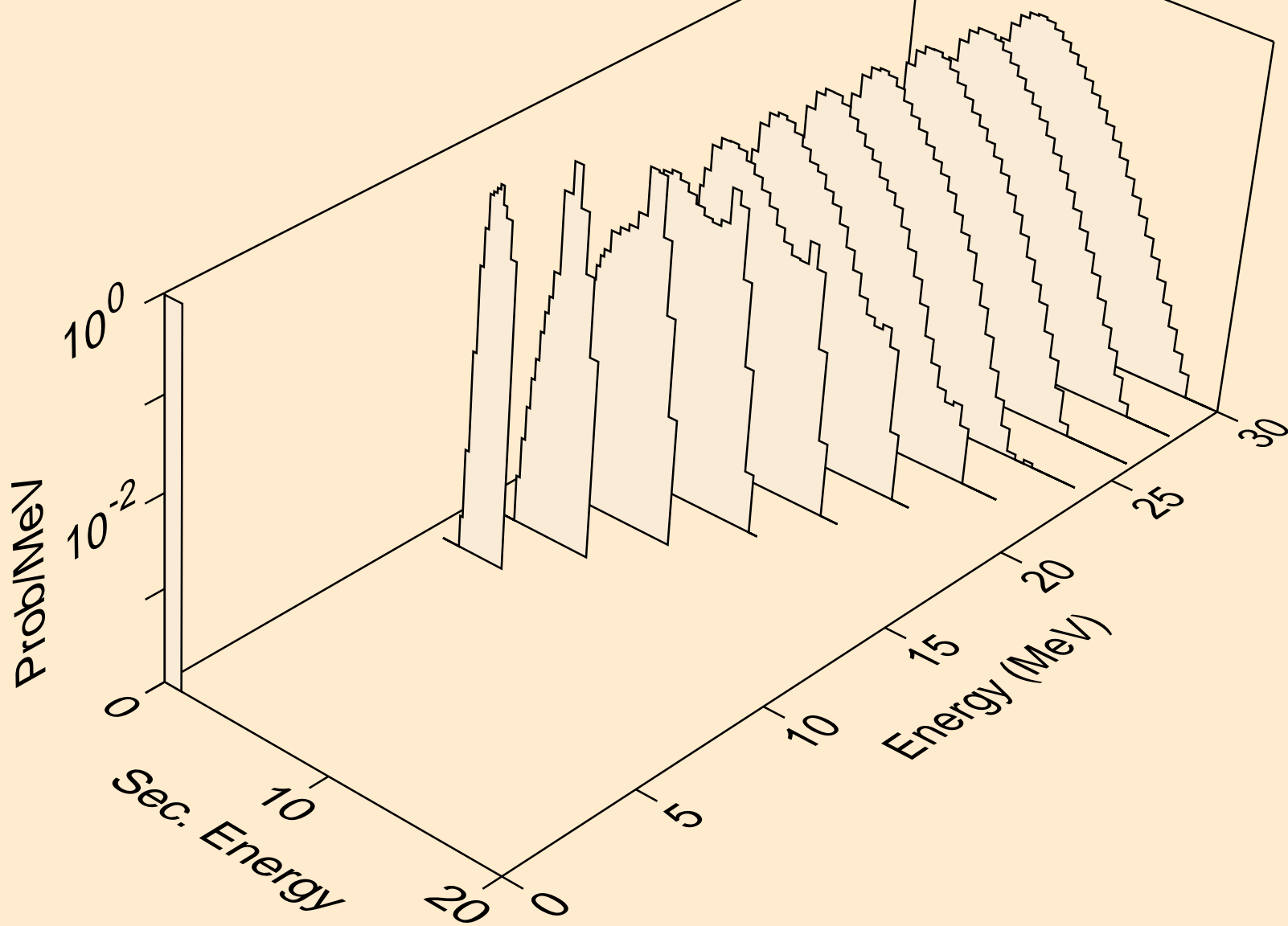




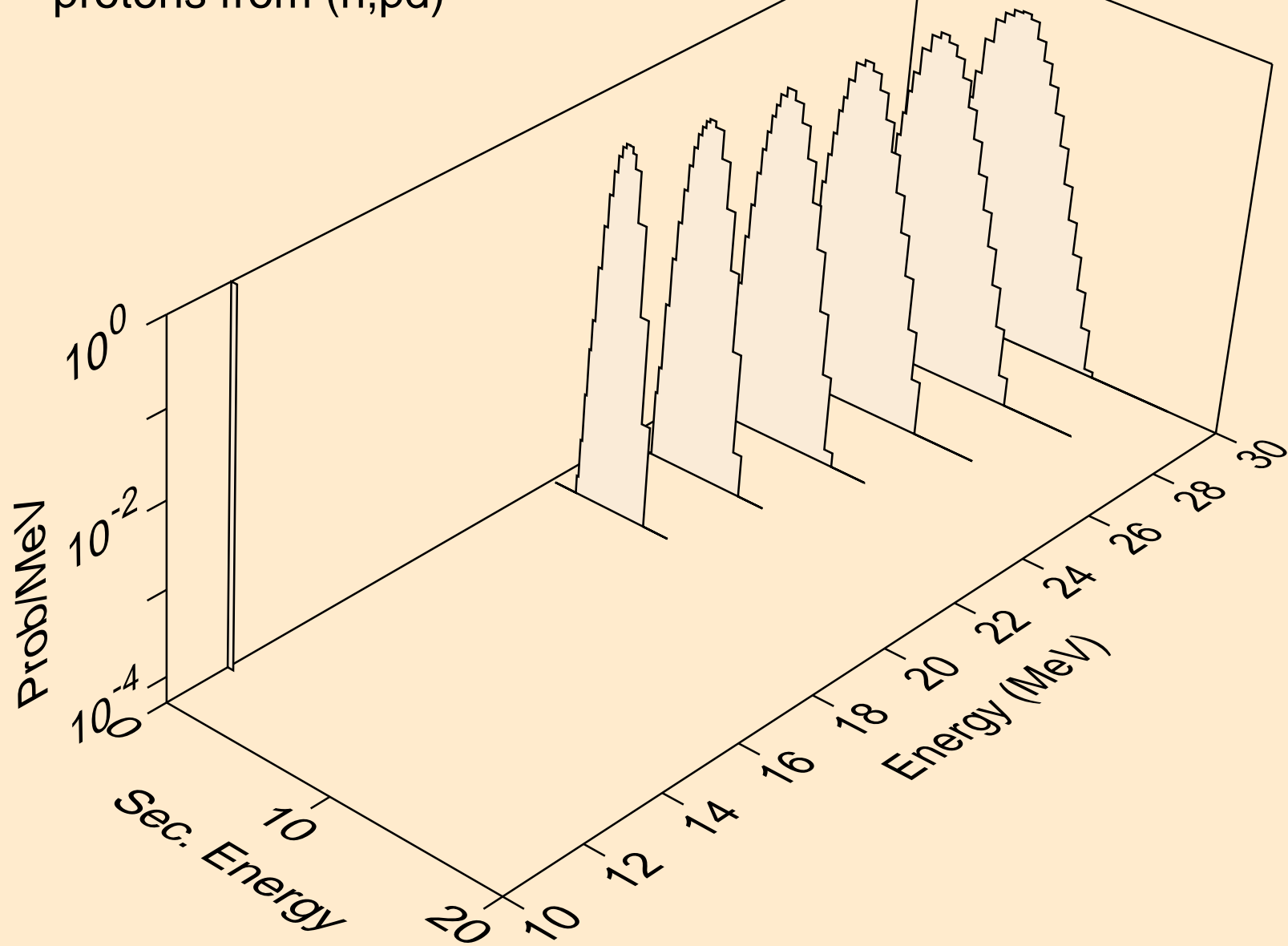
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protons from (n,2p)



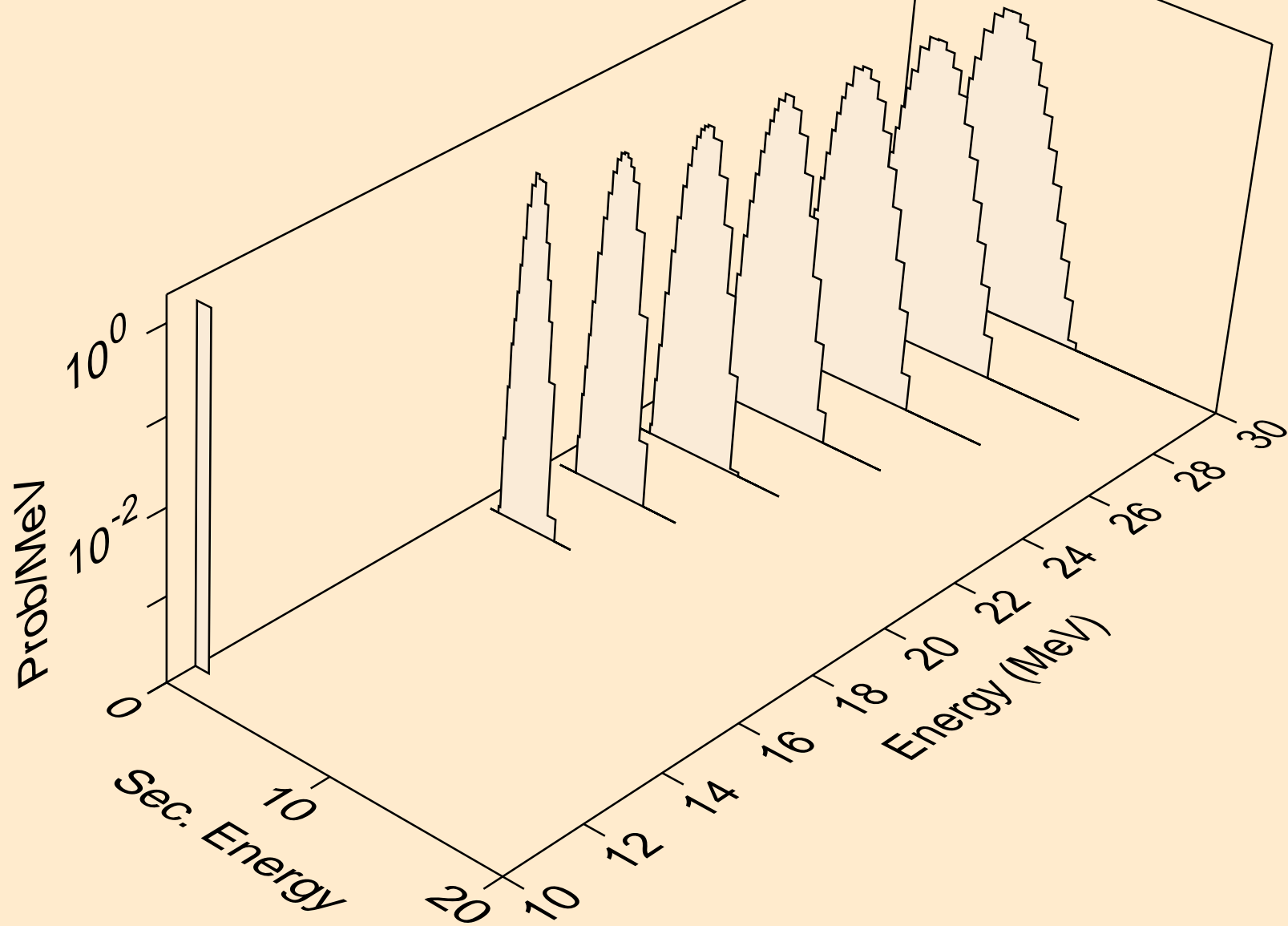
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protons from (n,p)



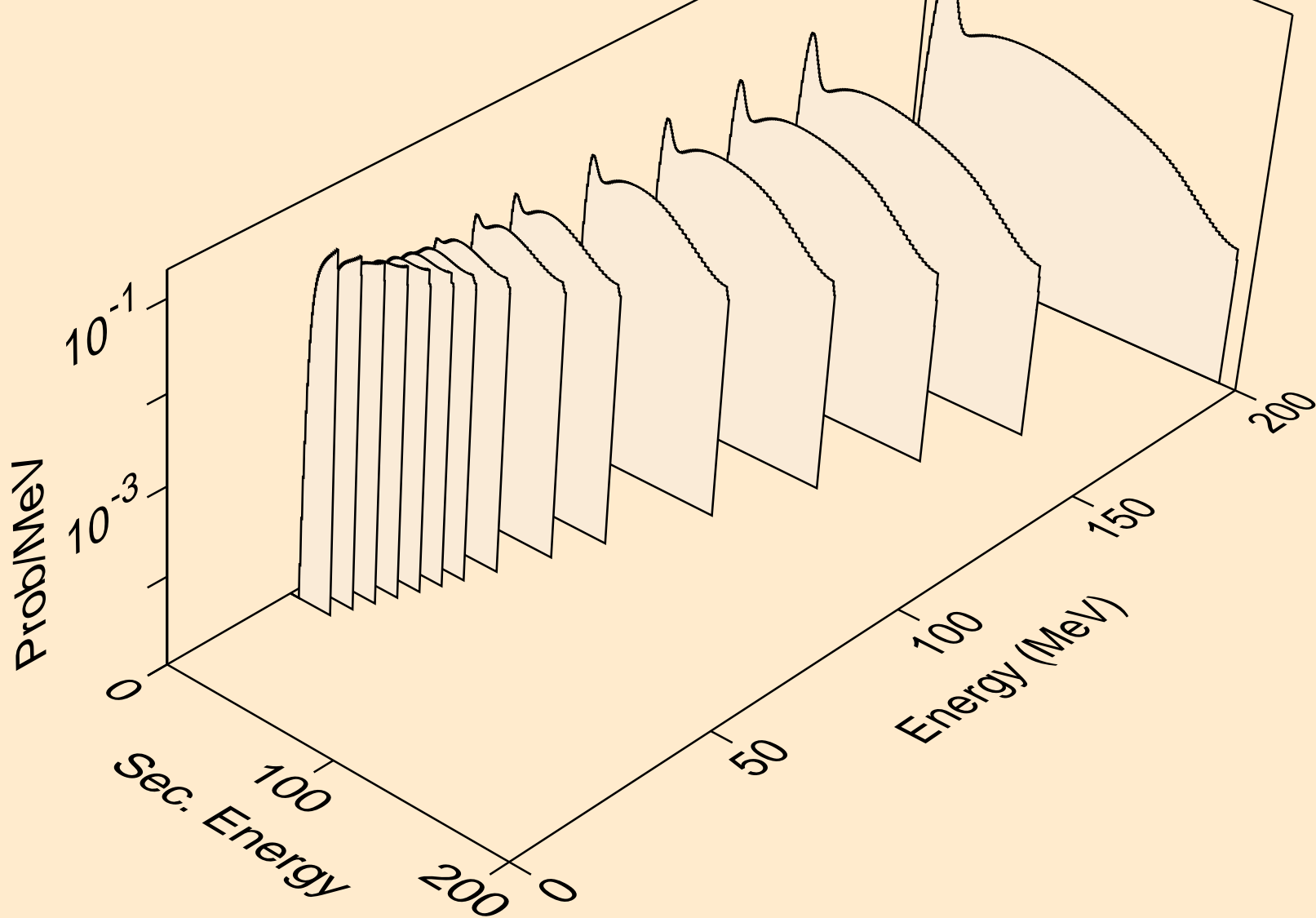
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protons from (n,pd)



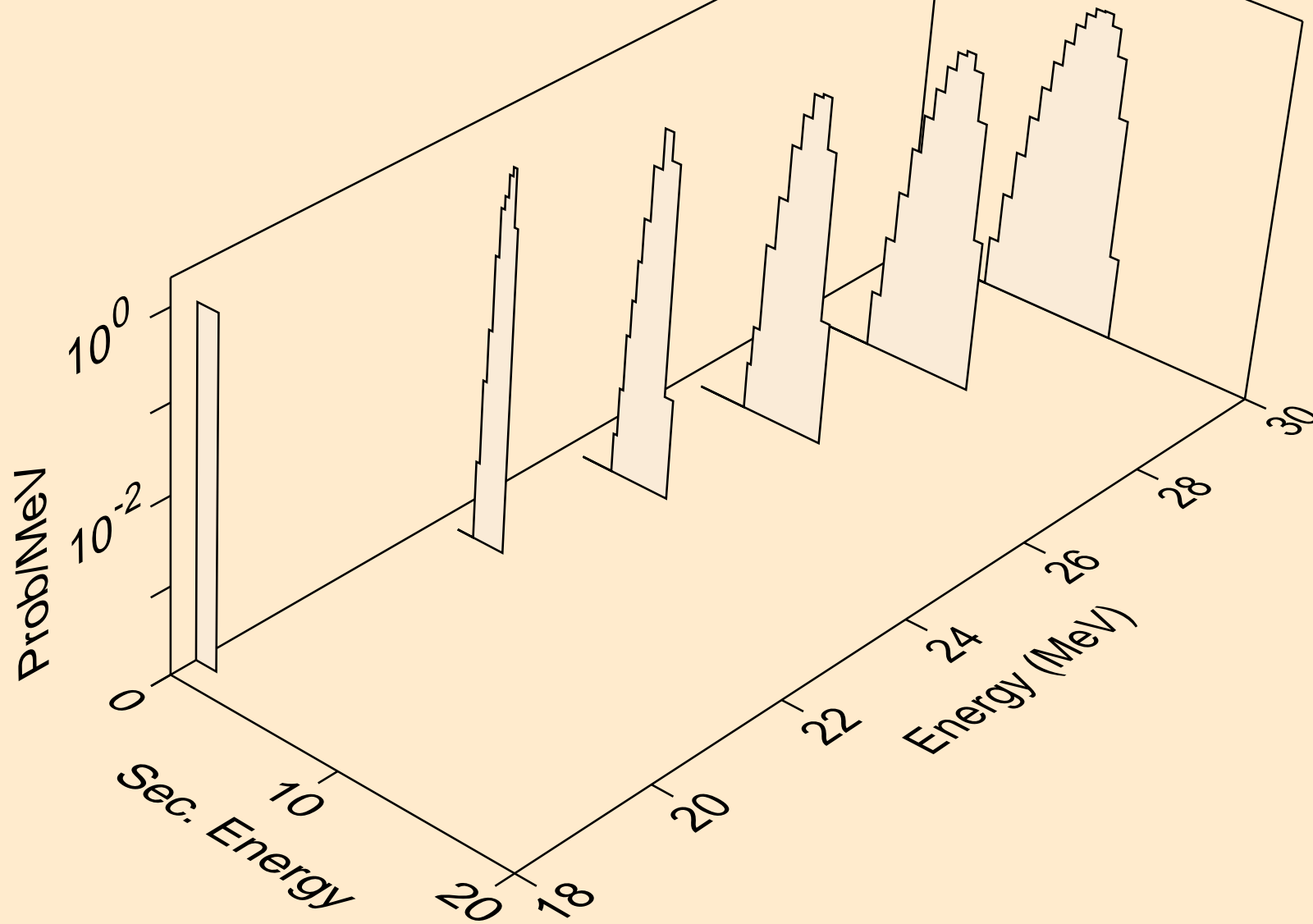
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protons from (n,pt)



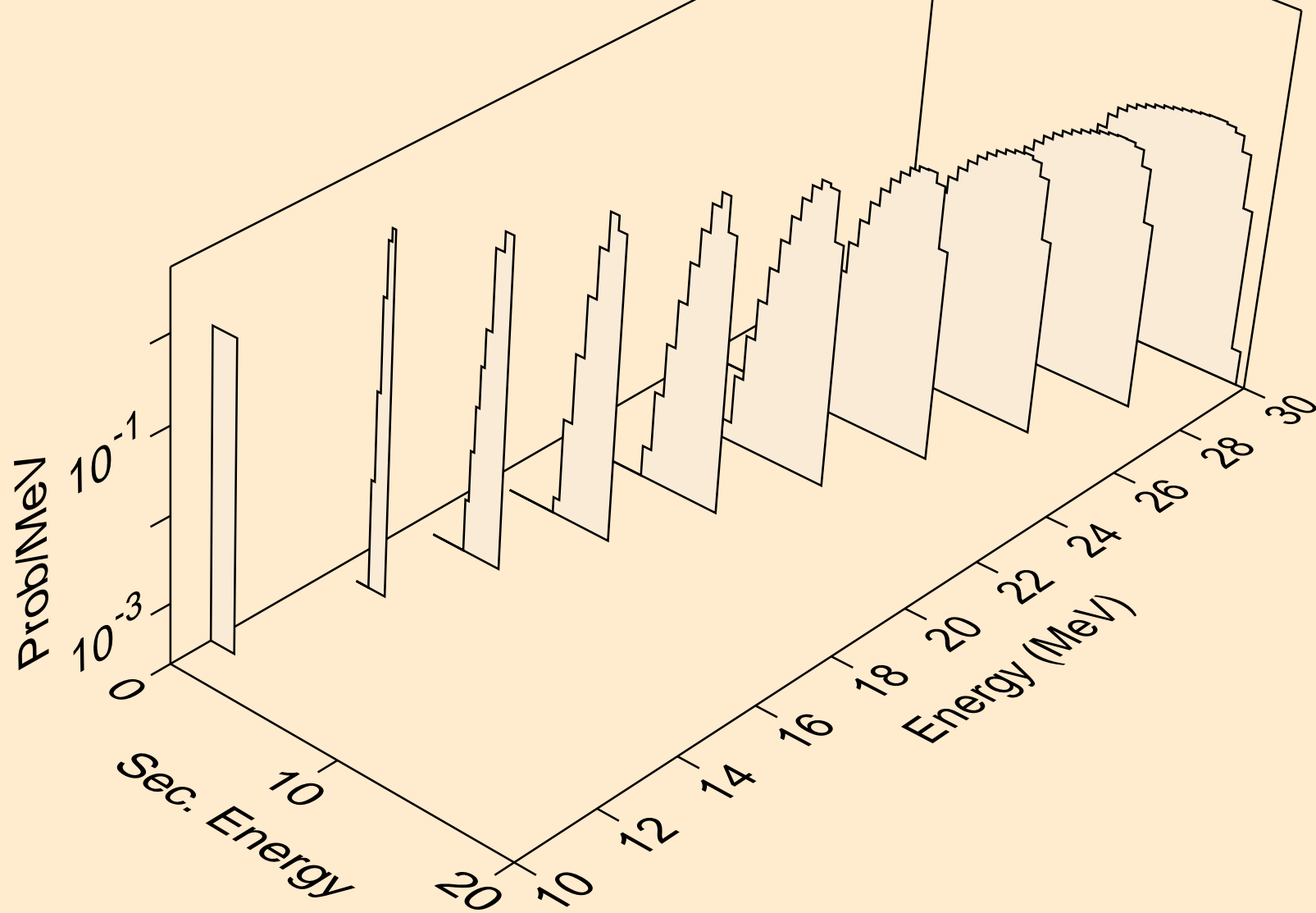
OS189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
deuterons from (n,x)



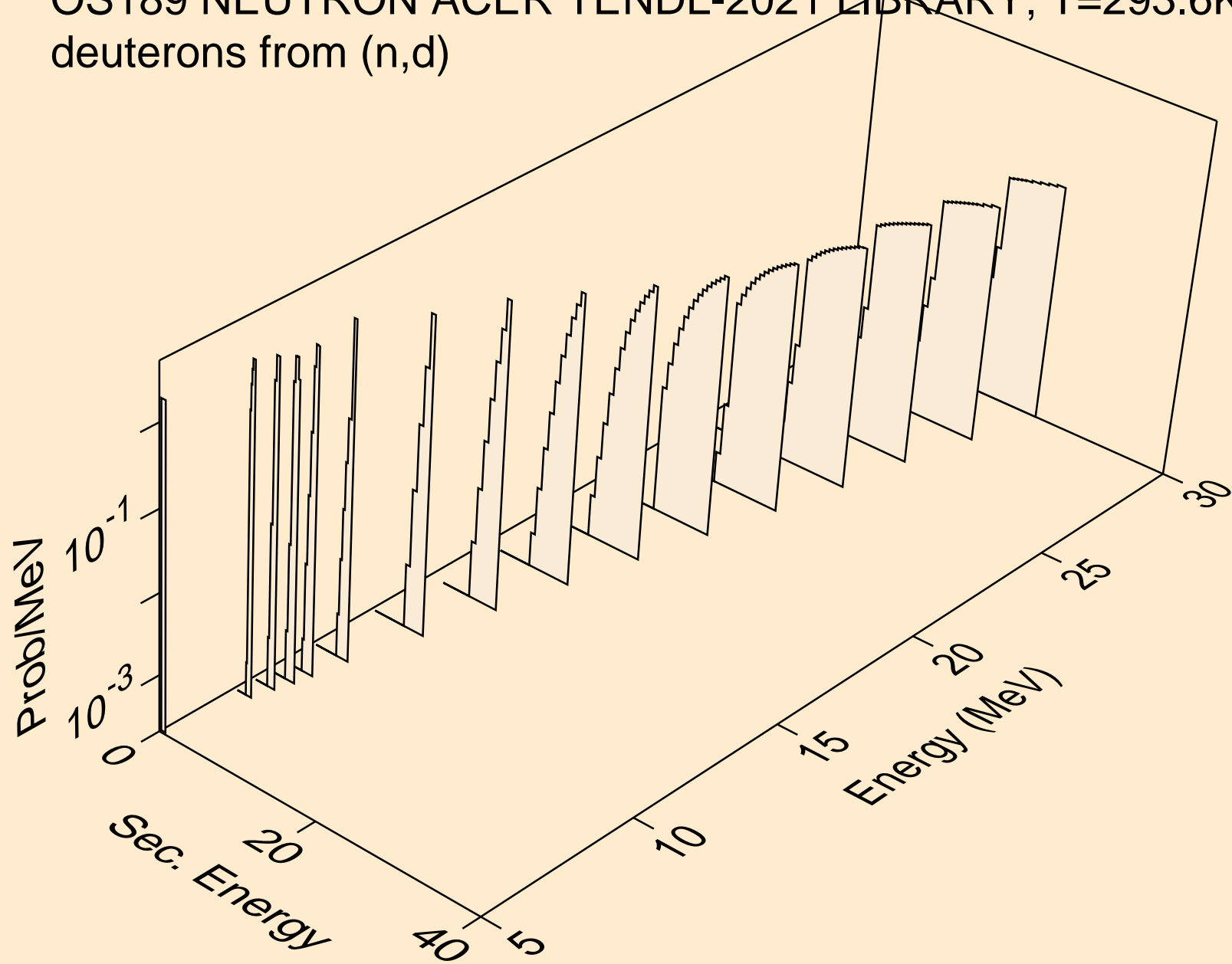
OS189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
deuterons from (n,2nd)



OS189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
deuterons from (n,n\*)d

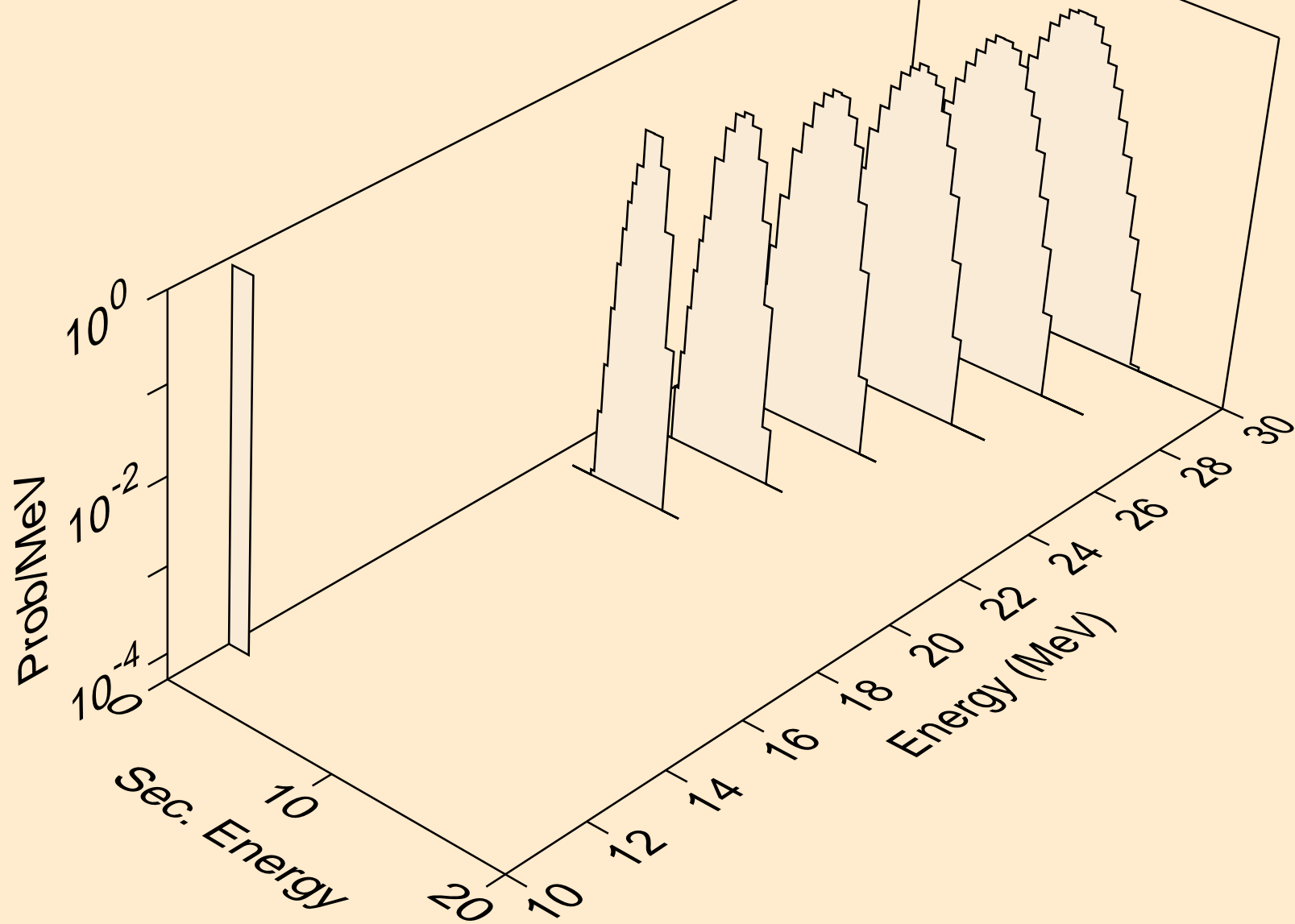


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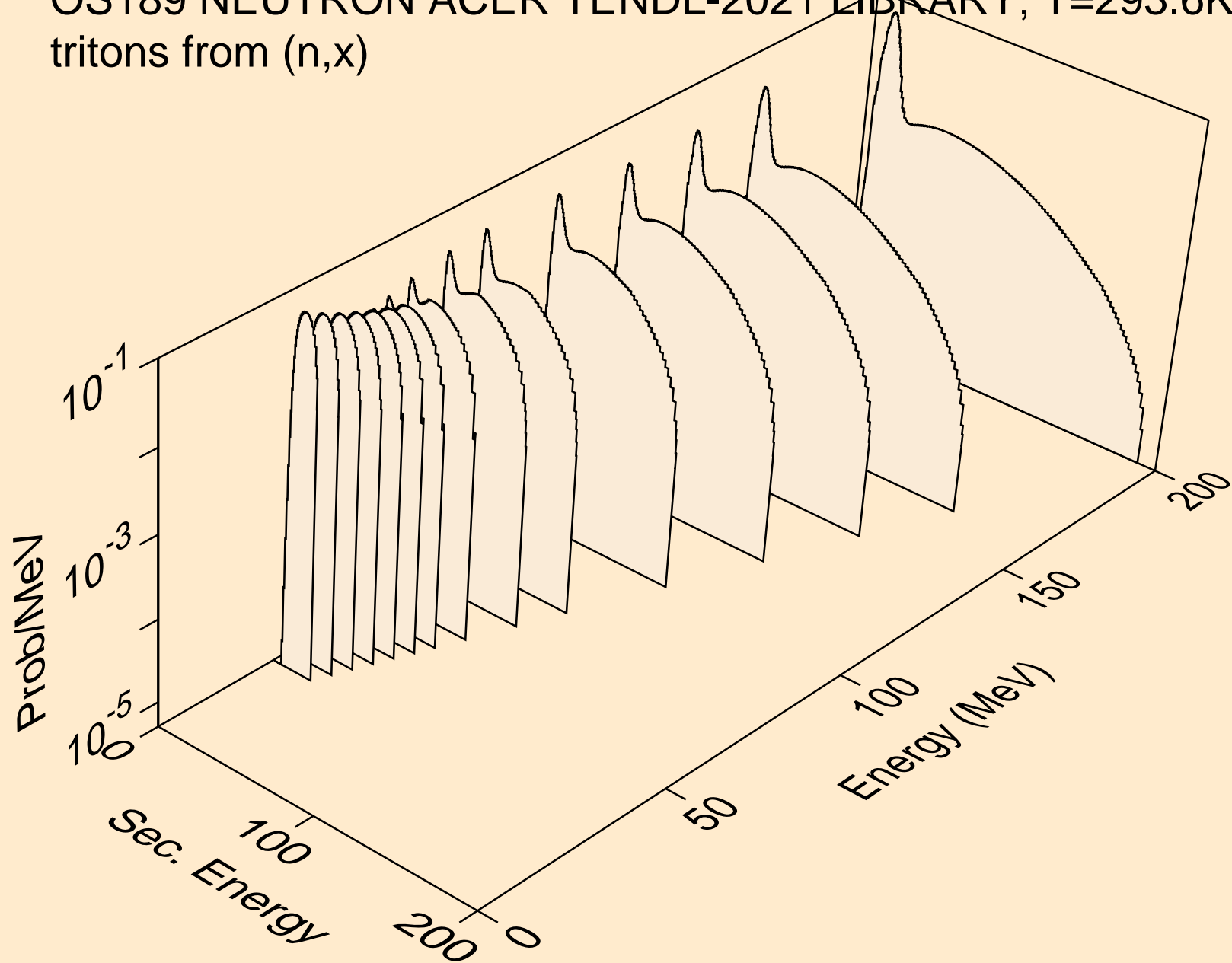




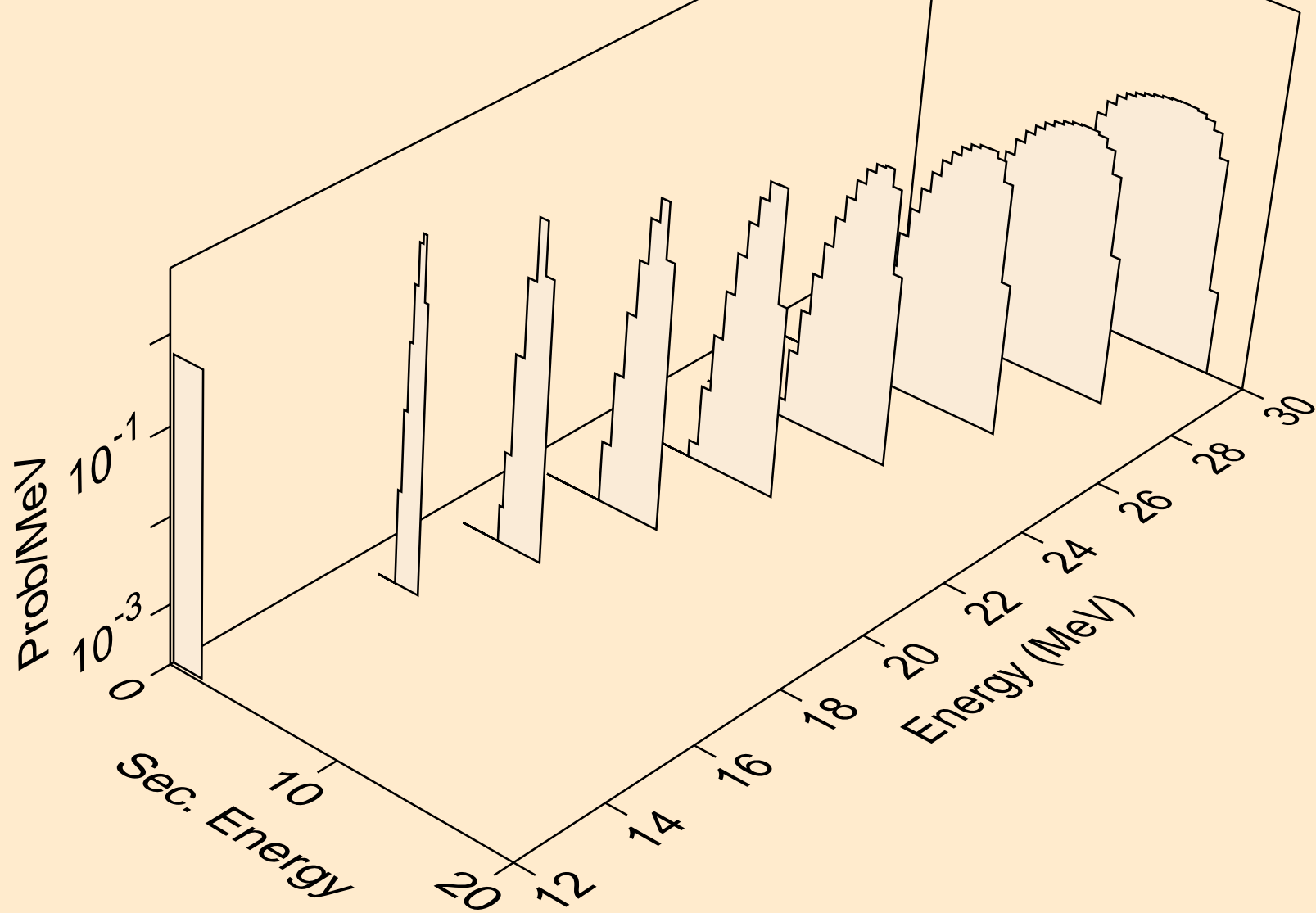
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deuterons from (n,pd)



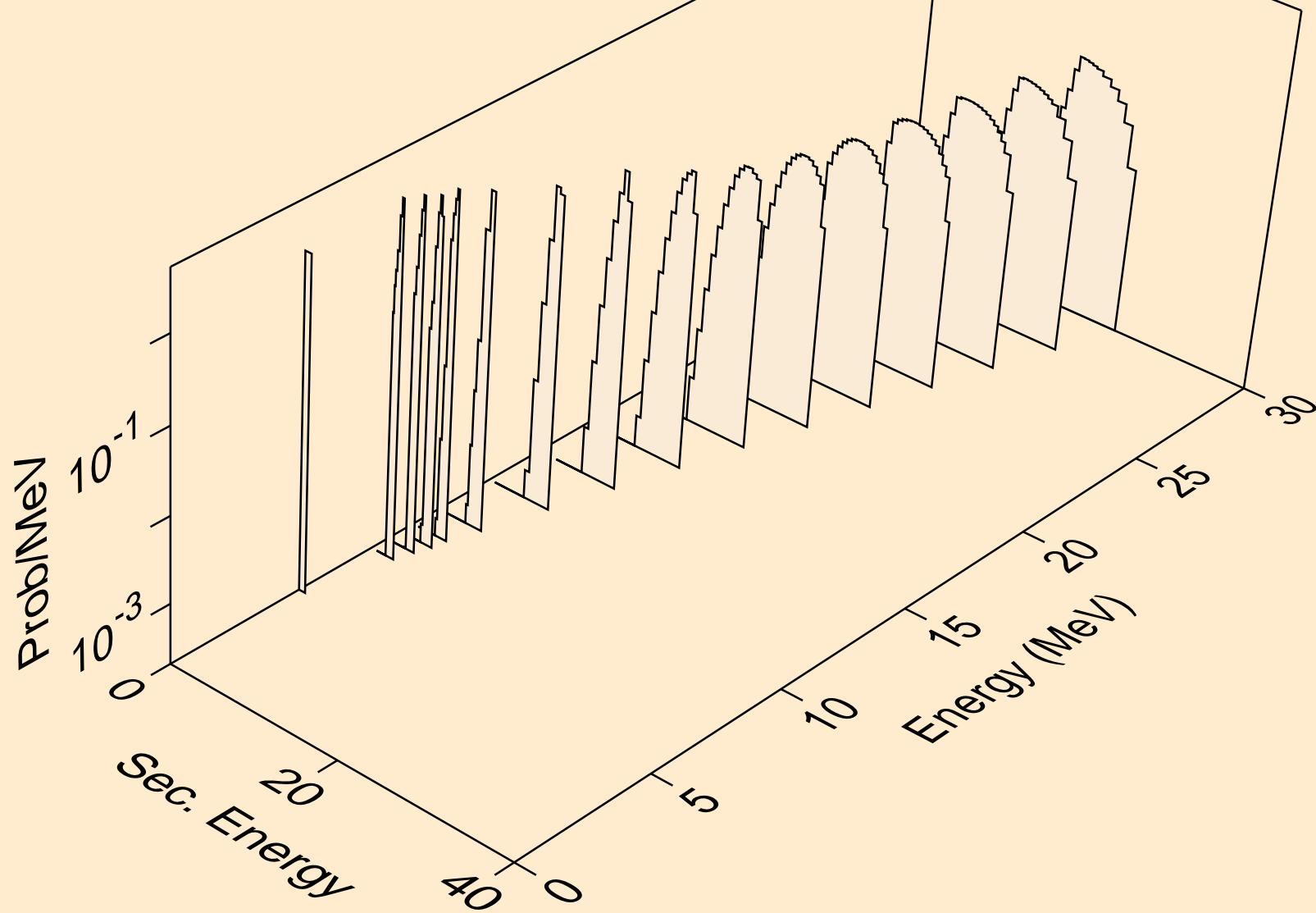
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tritons from (n,x)



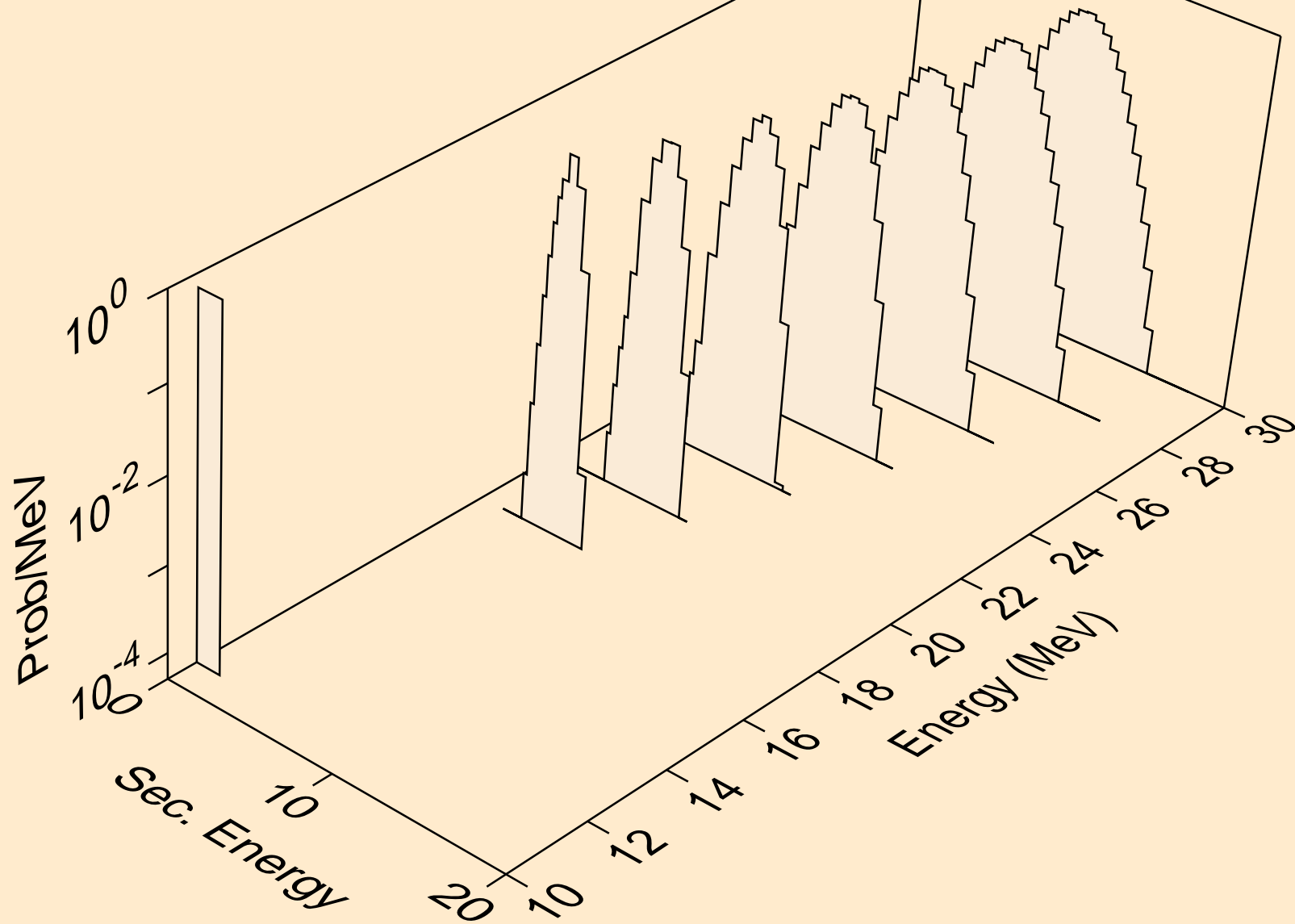
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tritons from (n,n\*)t



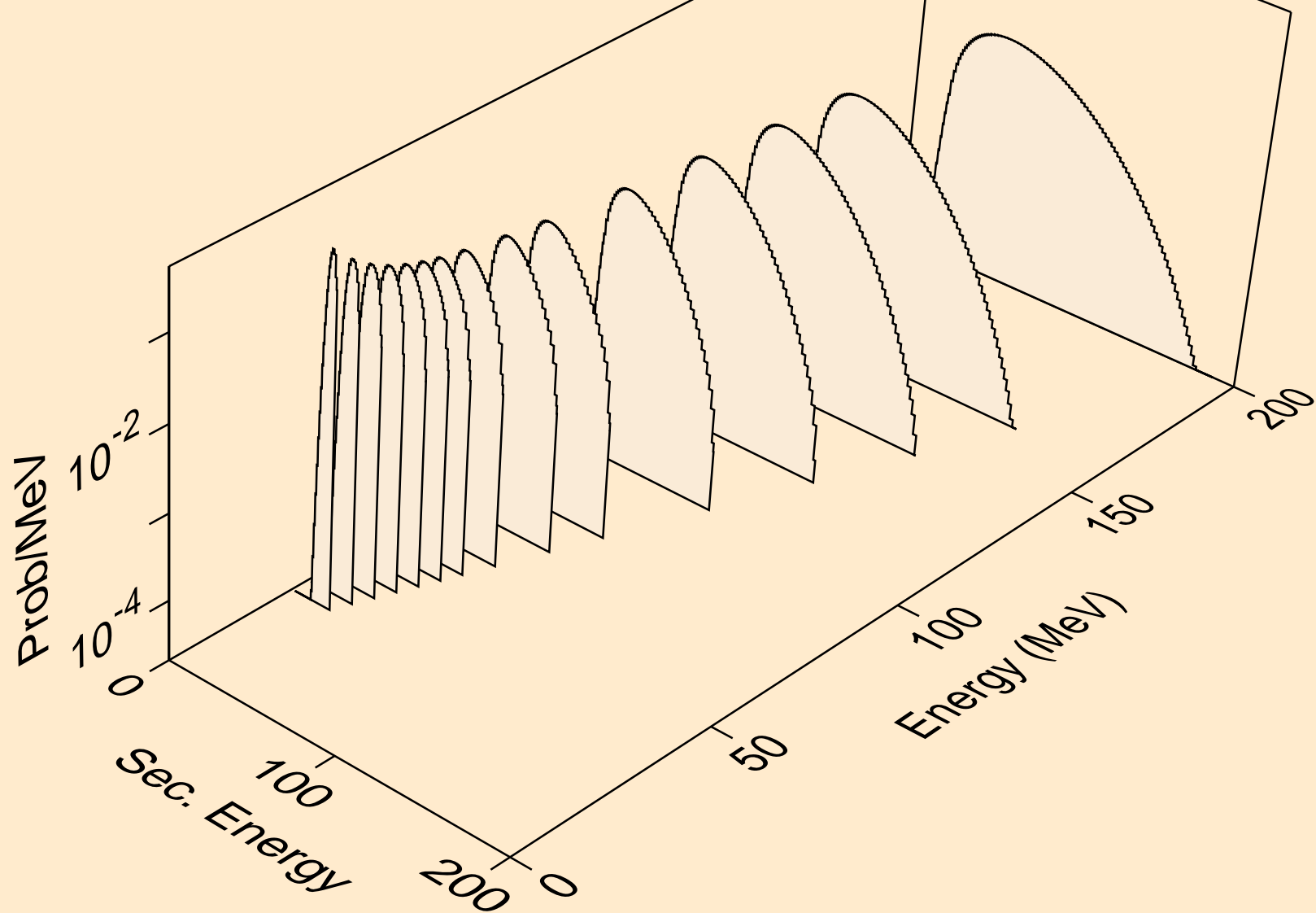
OS189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
tritons from (n,t)



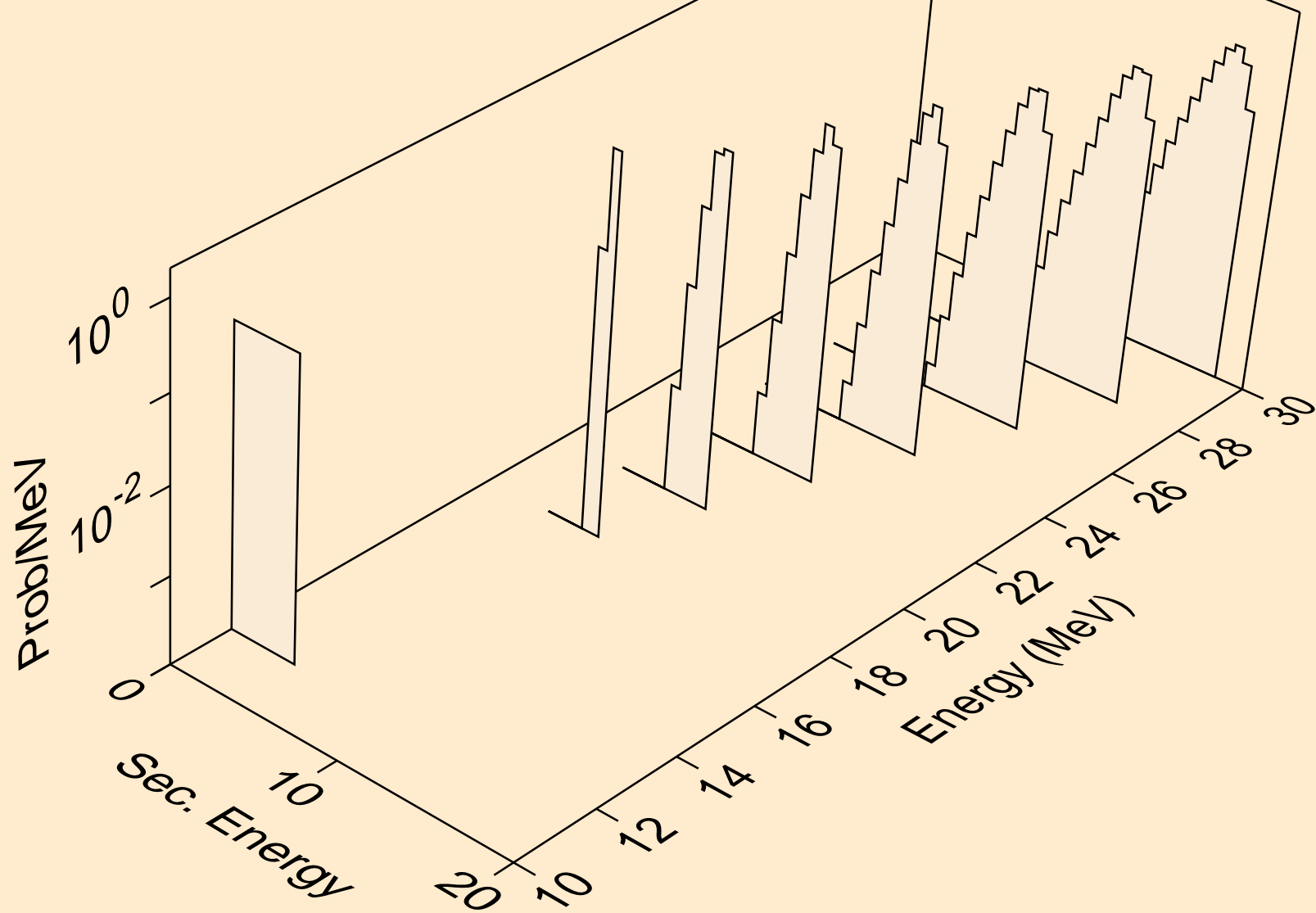
OS189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
tritons from (n,pt)



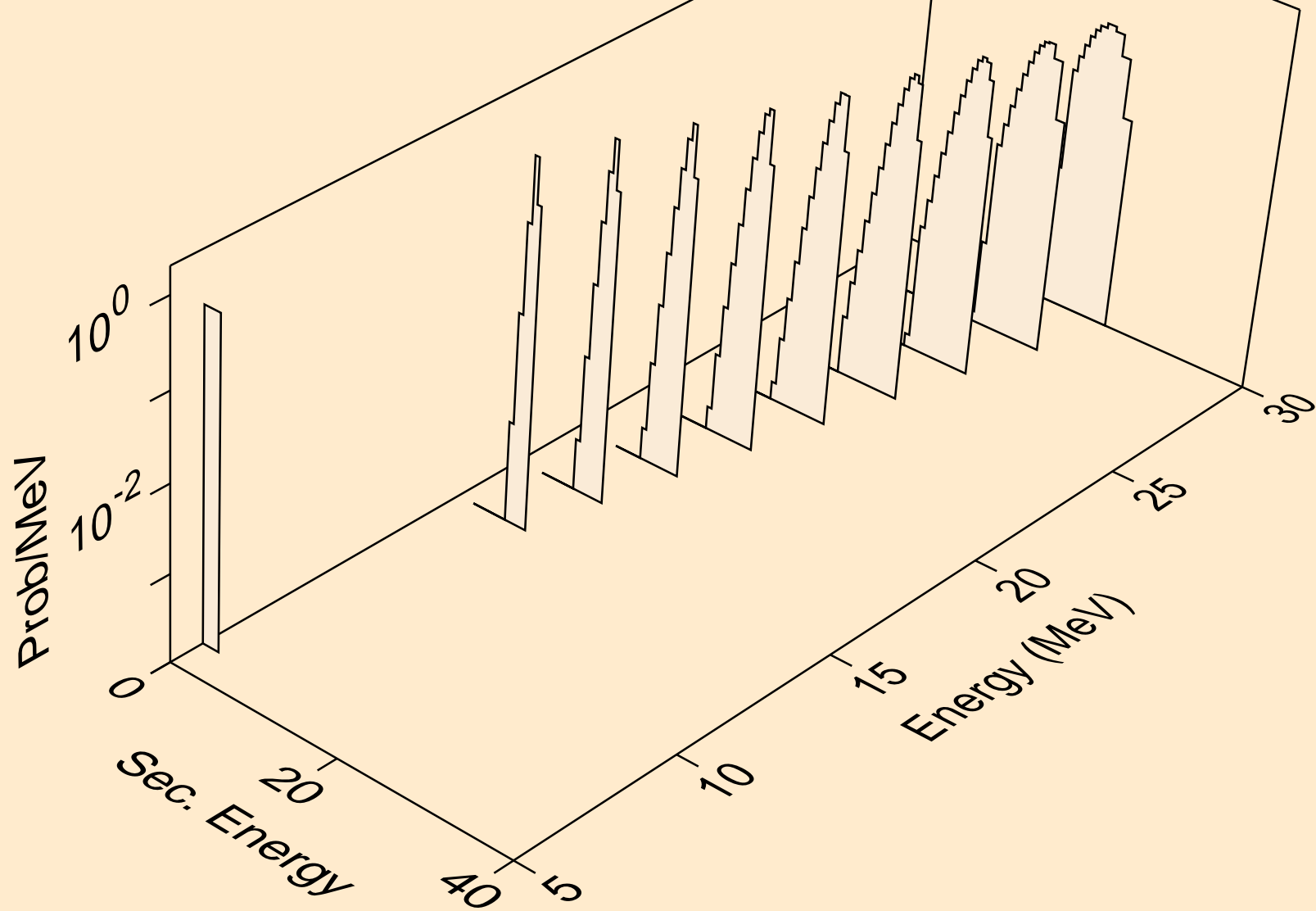
OS189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
he3s from (n,x)



OS189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
he3s from (n,n\*)he3

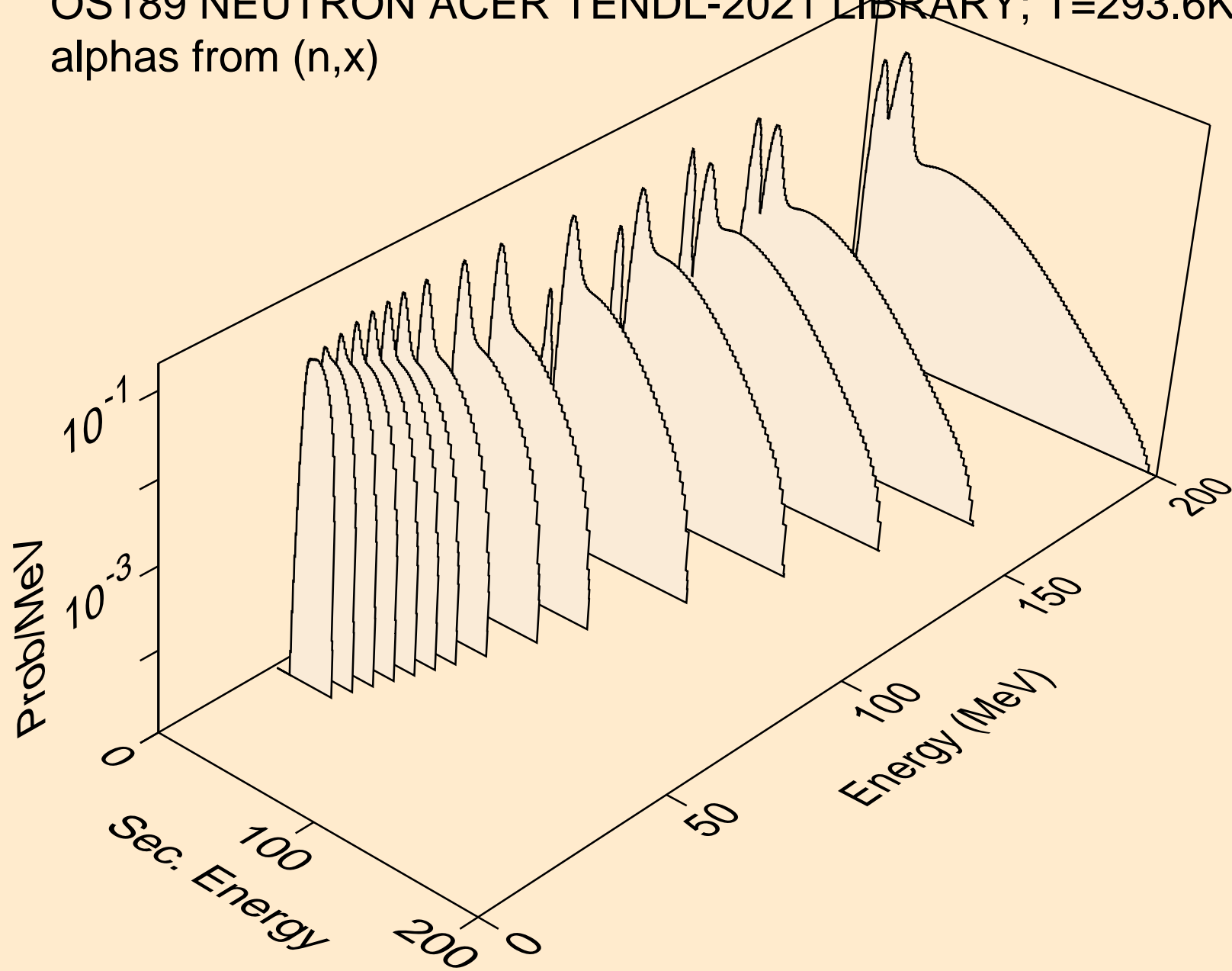


OS189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
he3s from (n,he3)

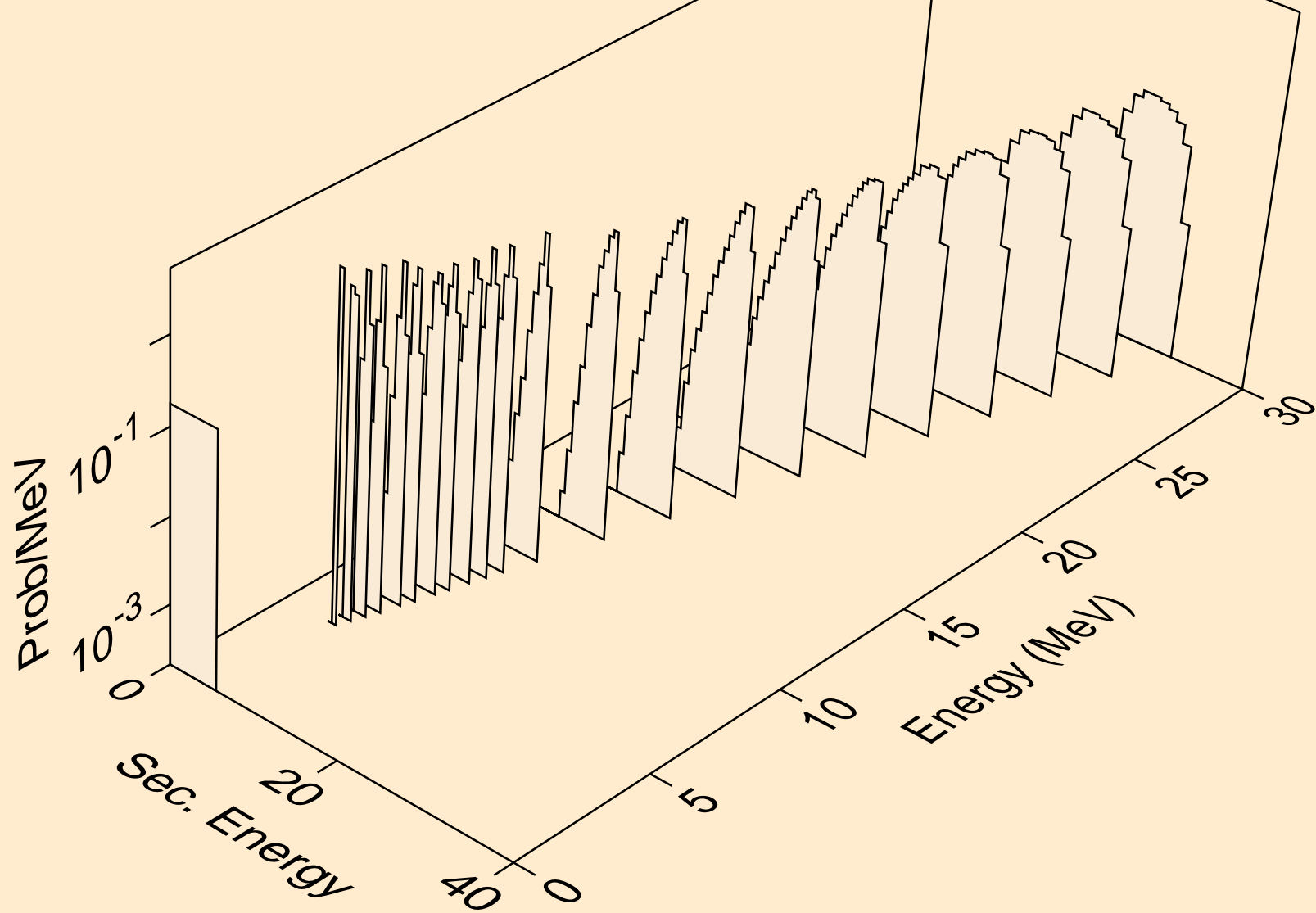




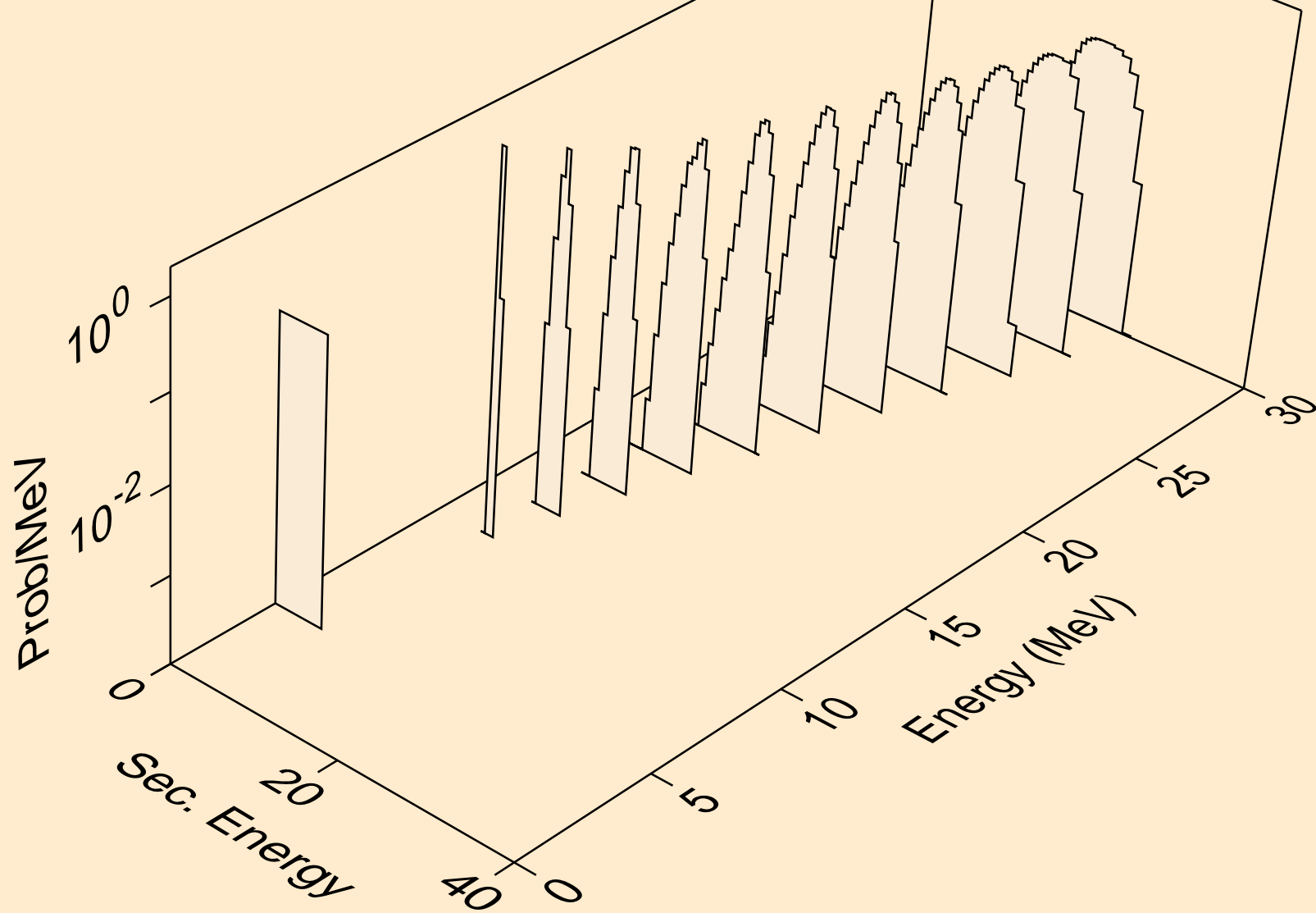
OS189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
alphas from (n,x)



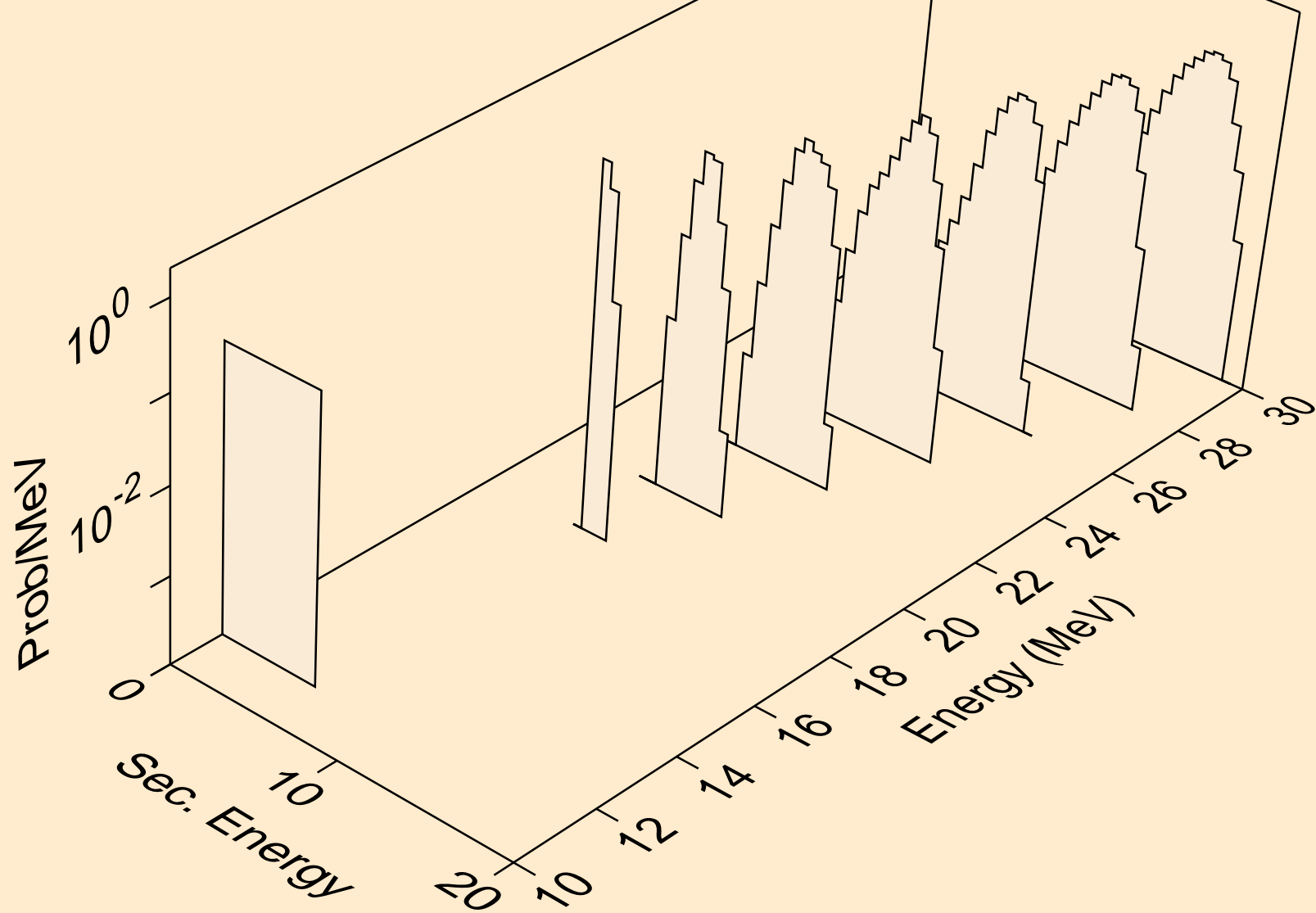
OS189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
alphas from (n,n\*)a



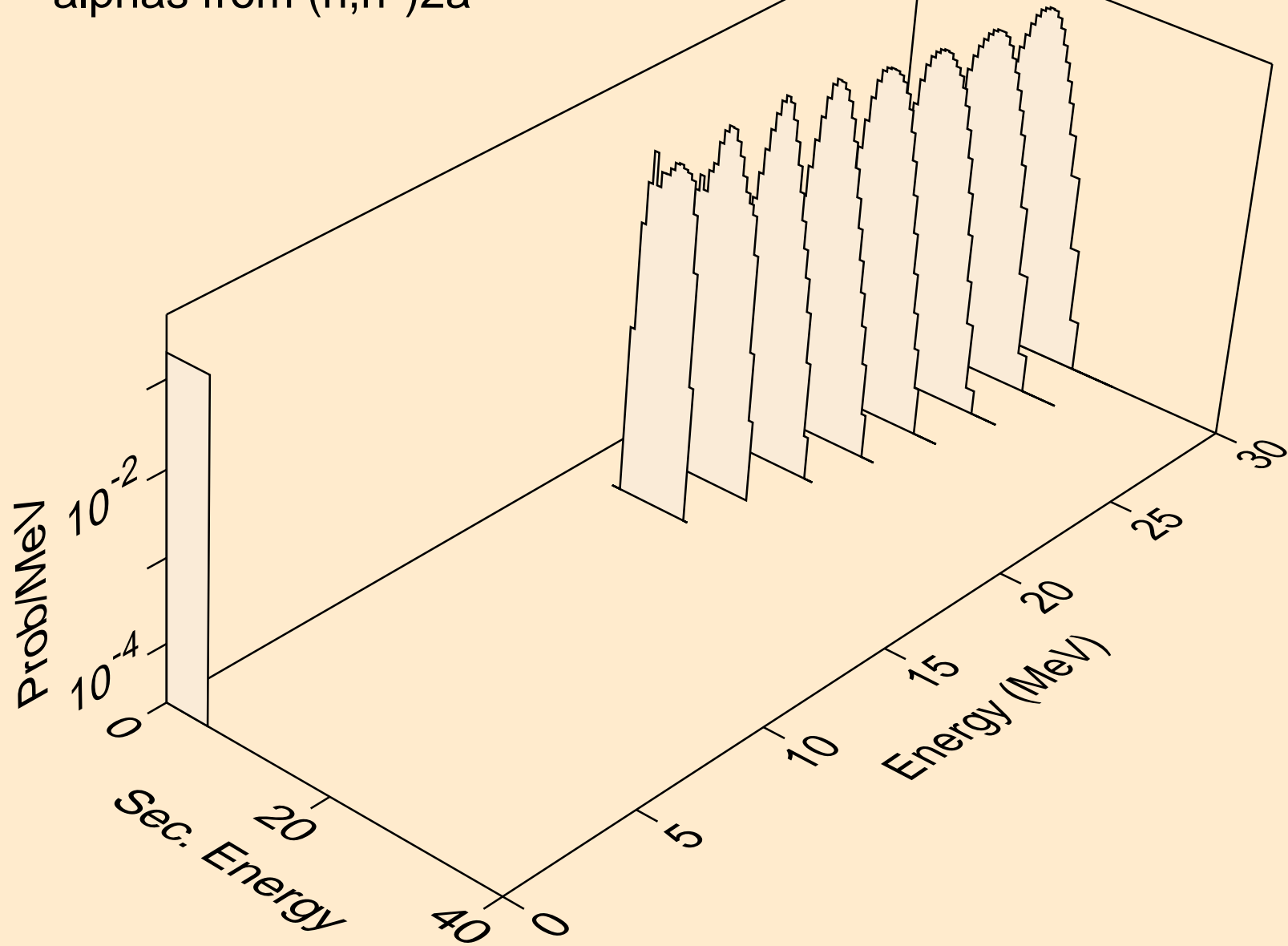
OS189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
alphas from (n,2n)a



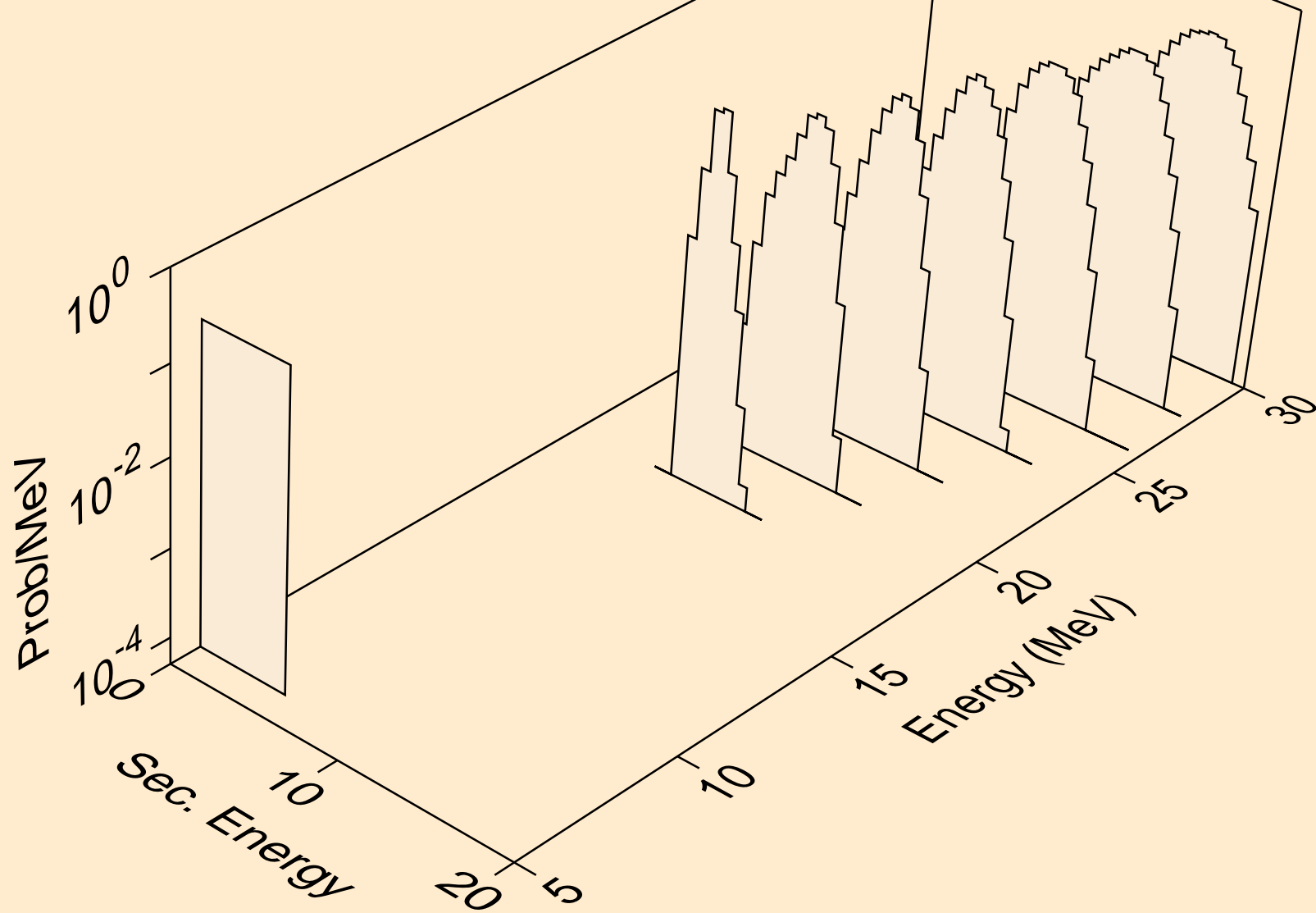
OS189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
alphas from (n,3n)a



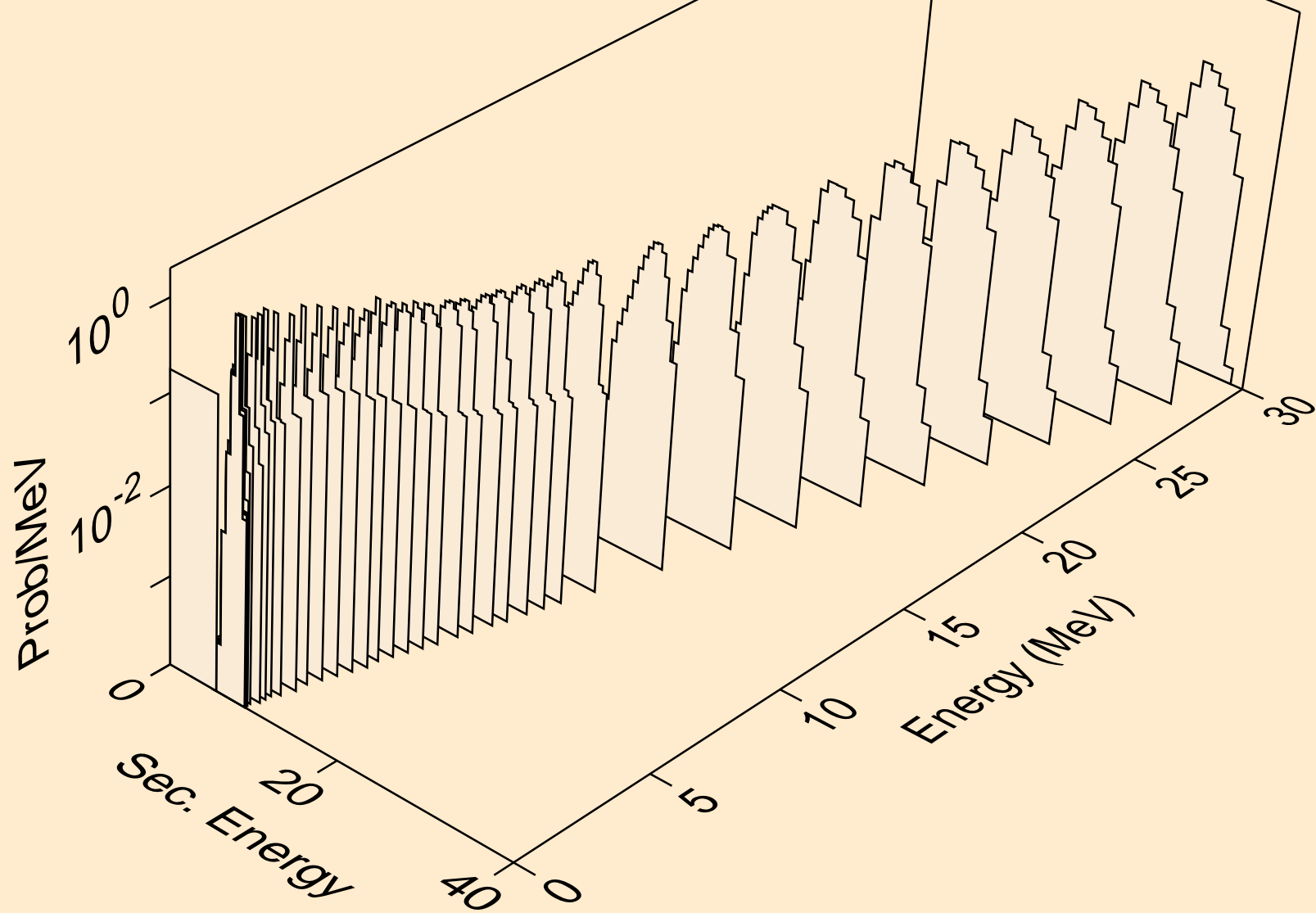
OS189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
alphas from (n,n\*)2a



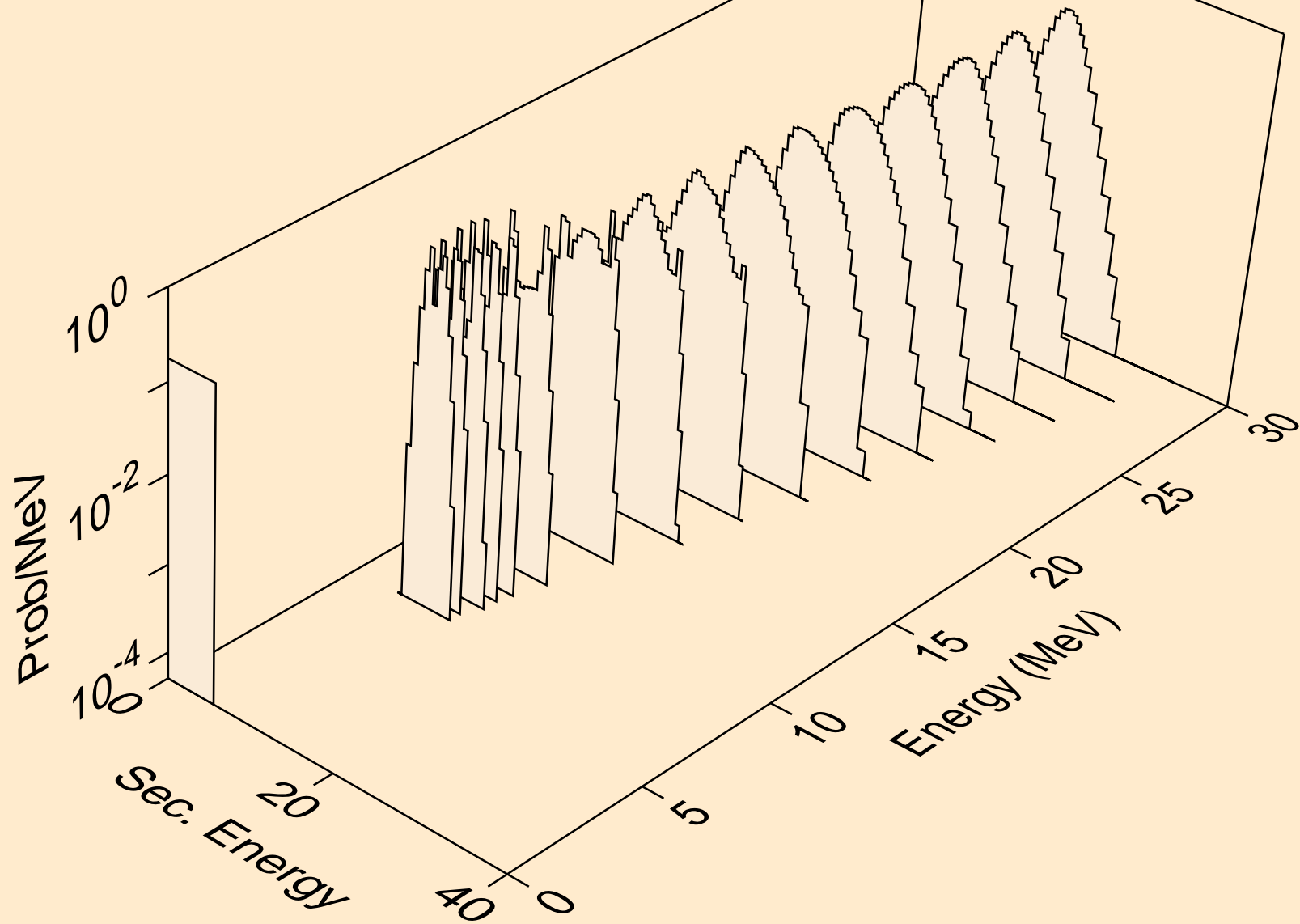
OS189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
alphas from (n,npa)



OS189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
alphas from (n,a)



OS189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
alphas from (n,2a)





OS189 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
alphas from (n,pa)

