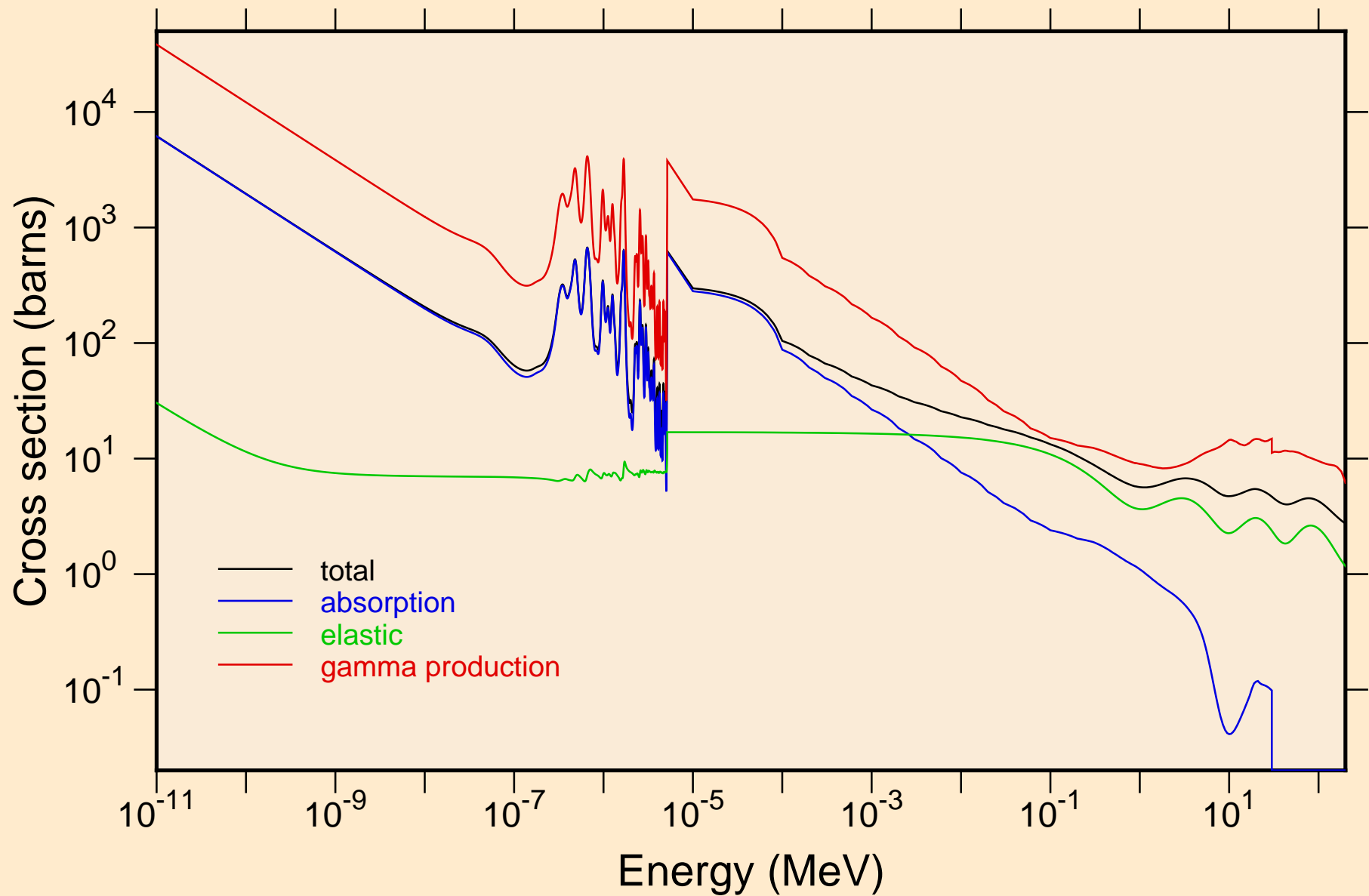
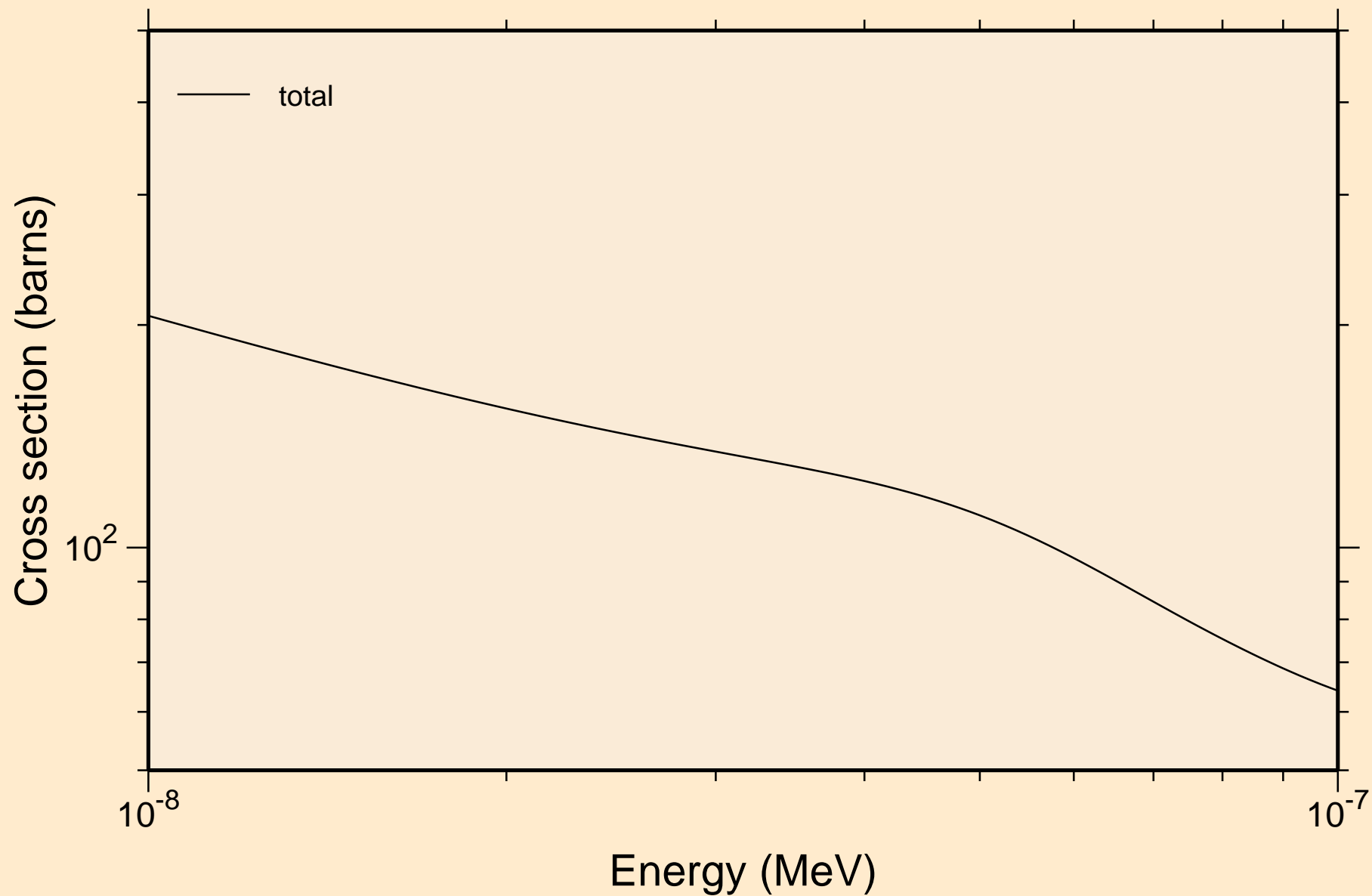


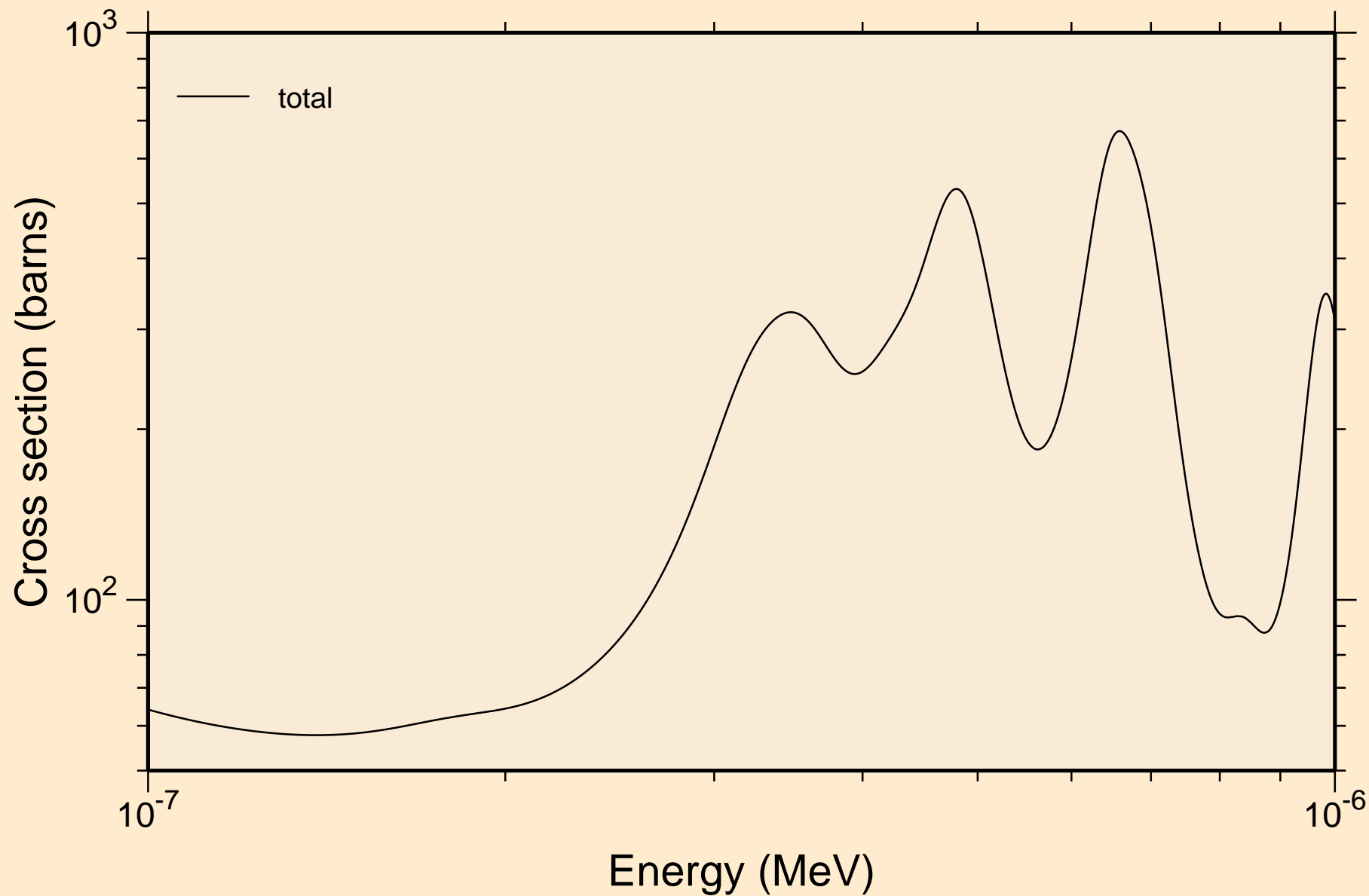
IR181 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Principal cross sections



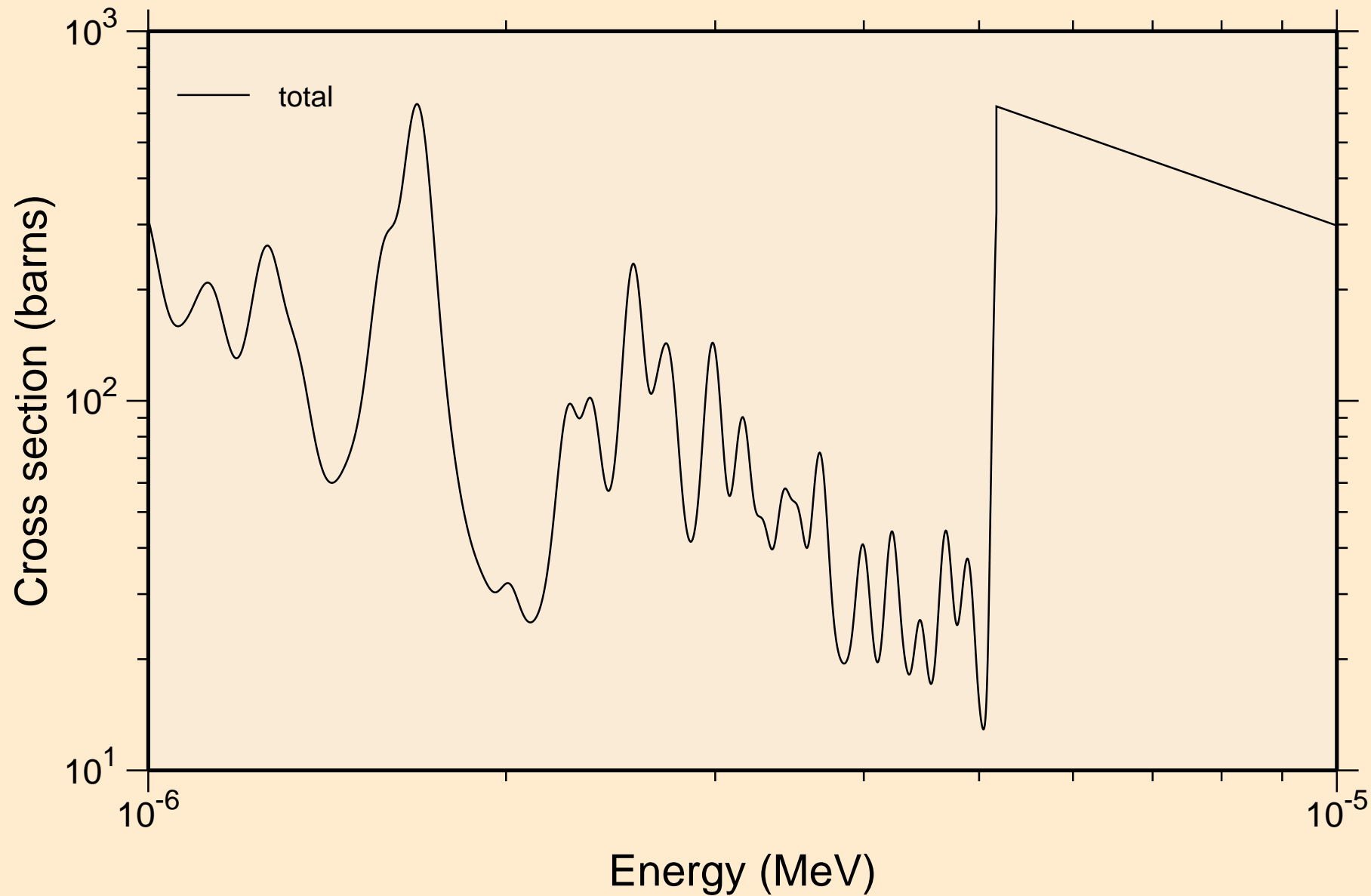
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resonance total cross section



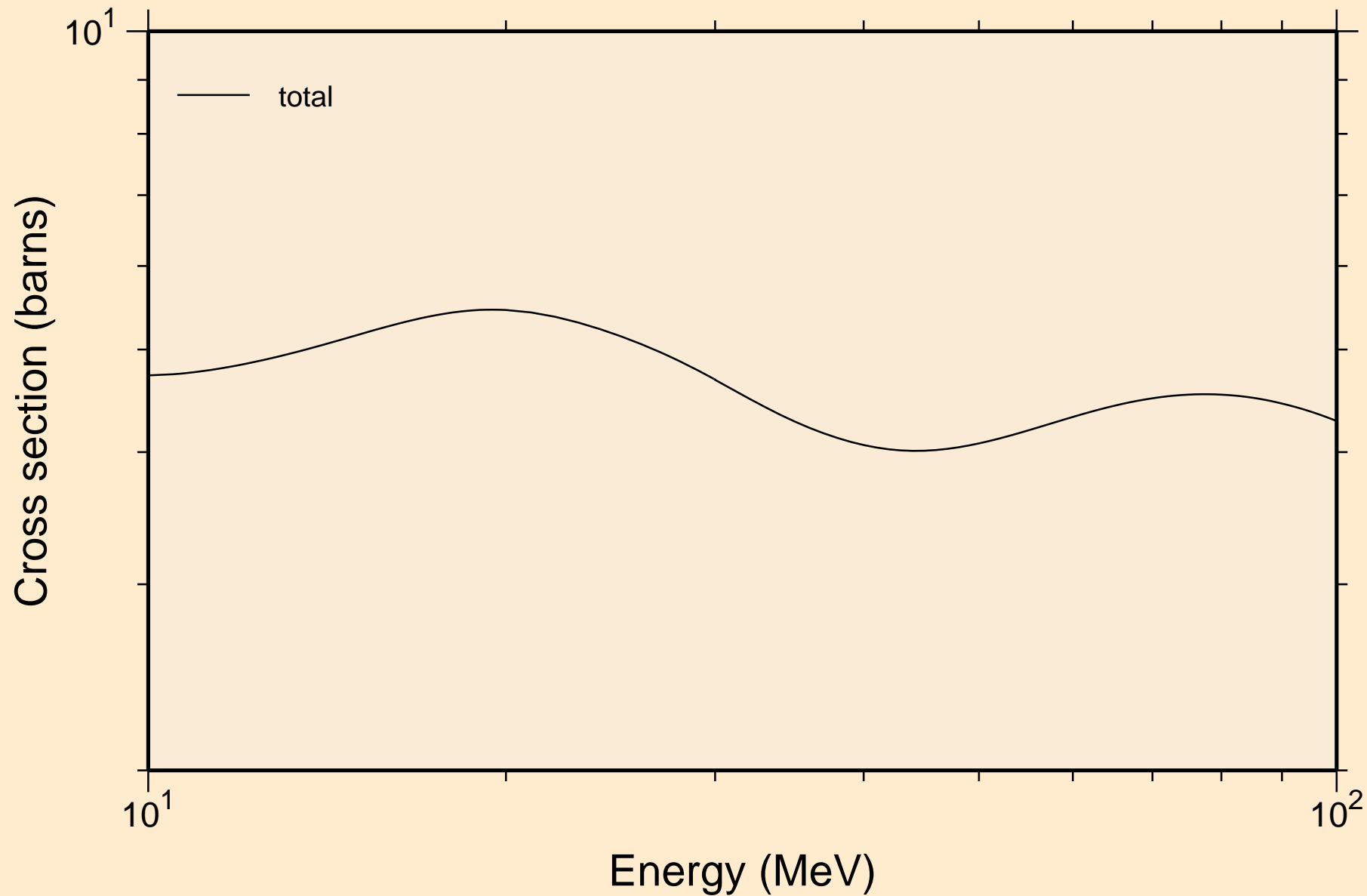
IR181 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
resonance total cross section



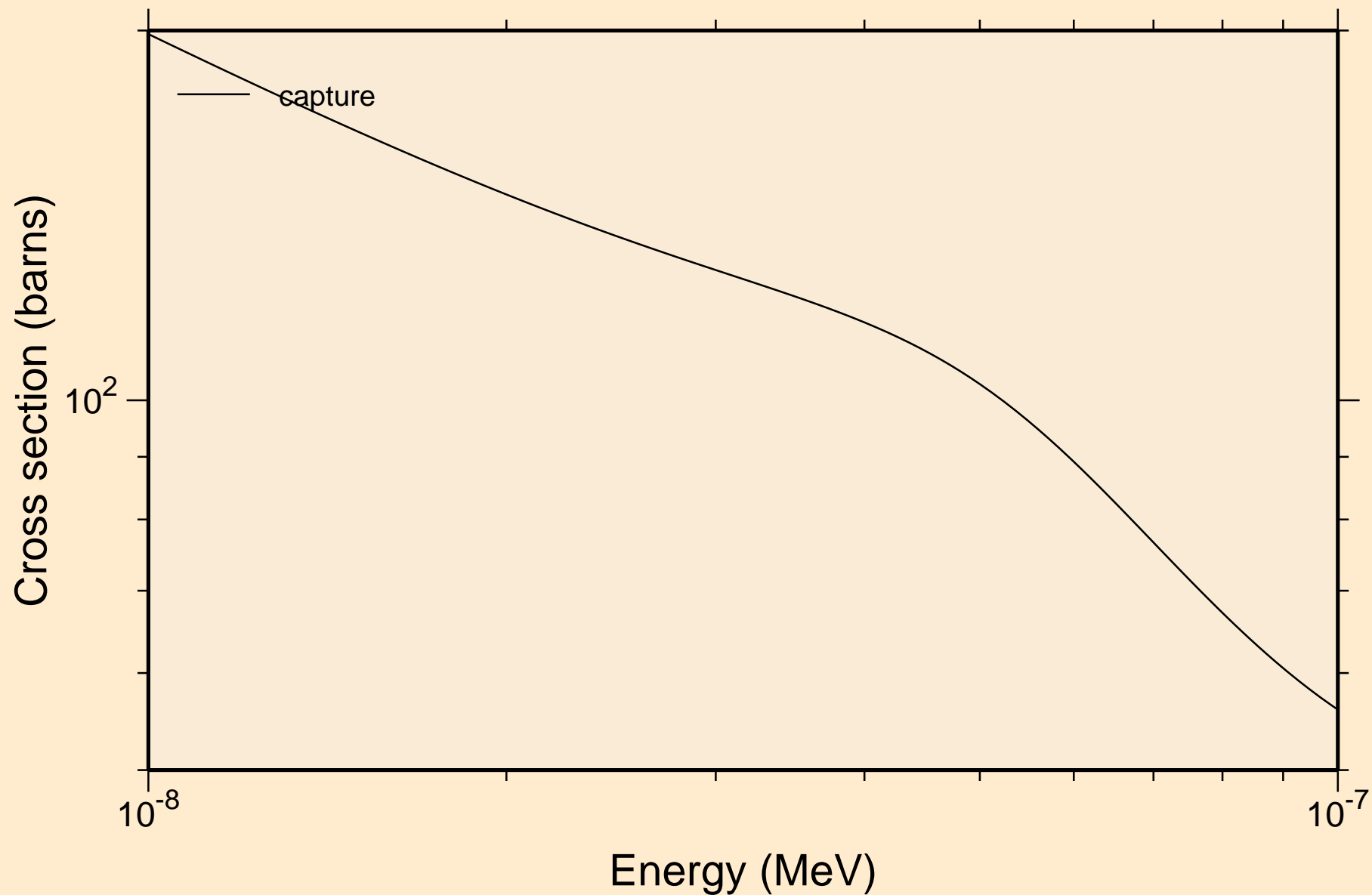
IR181 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
resonance total cross section



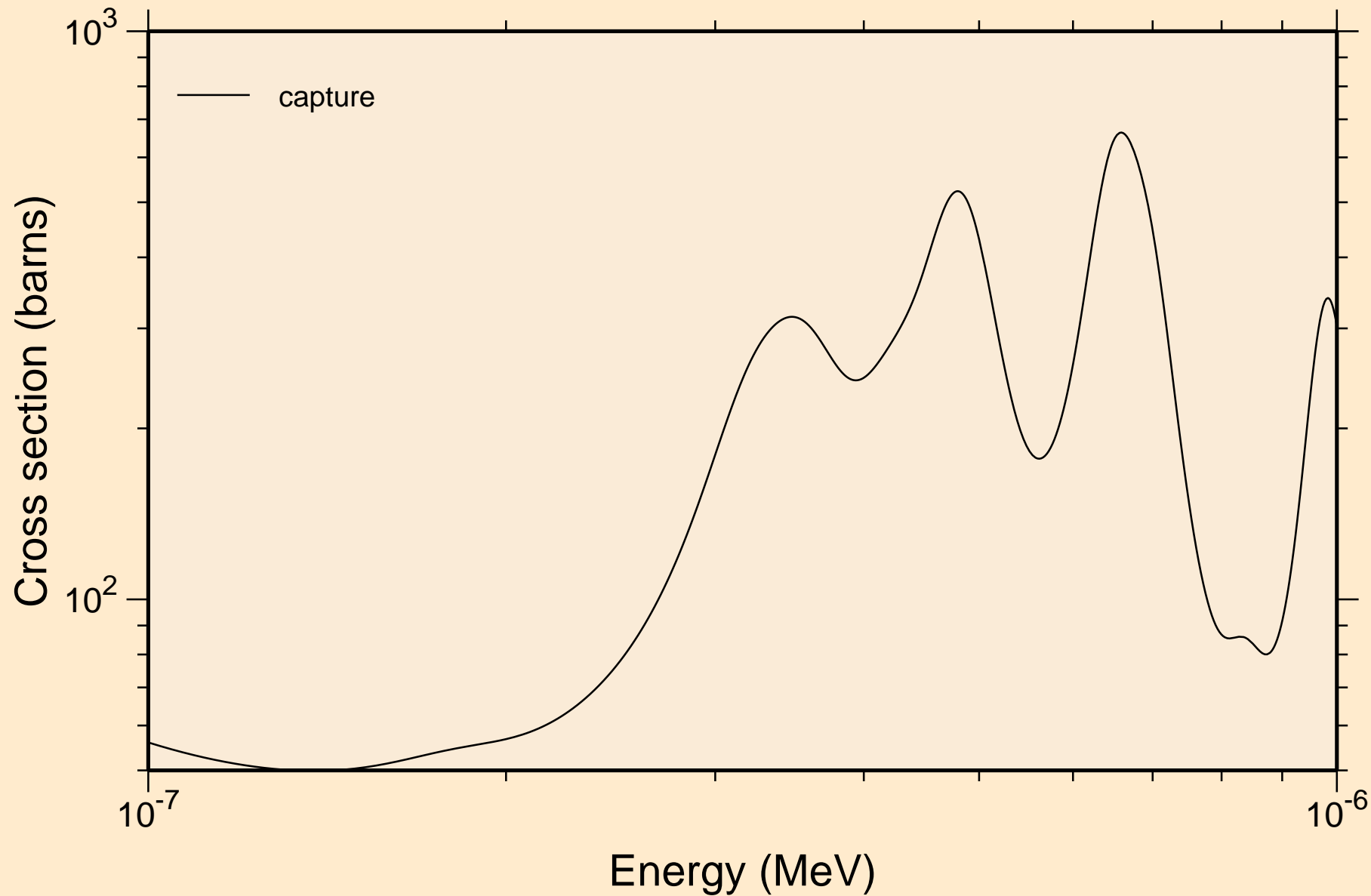
IR181 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
resonance total cross section



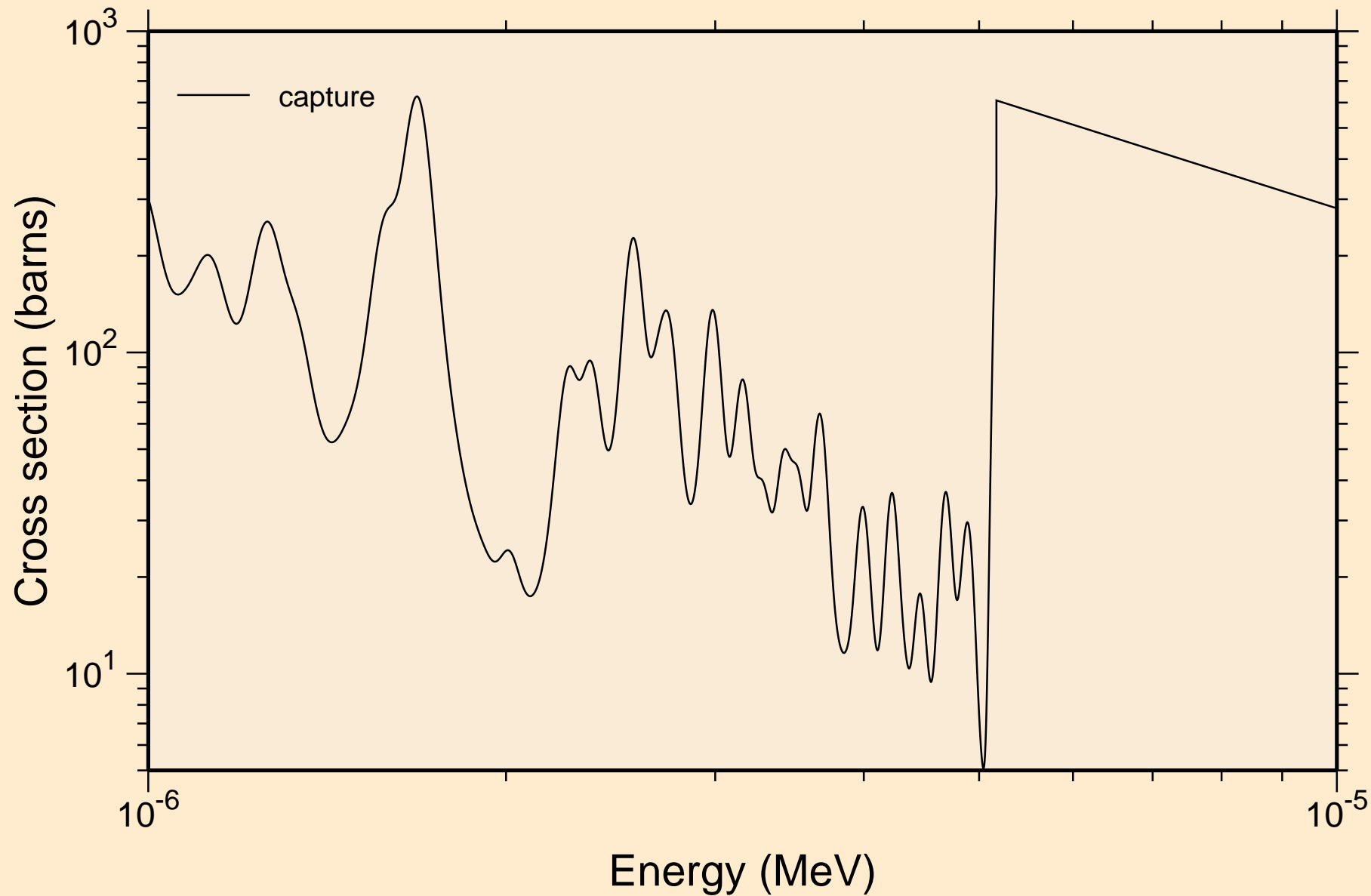
IR181 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
resonance absorption cross sections



IR181 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
resonance absorption cross sections

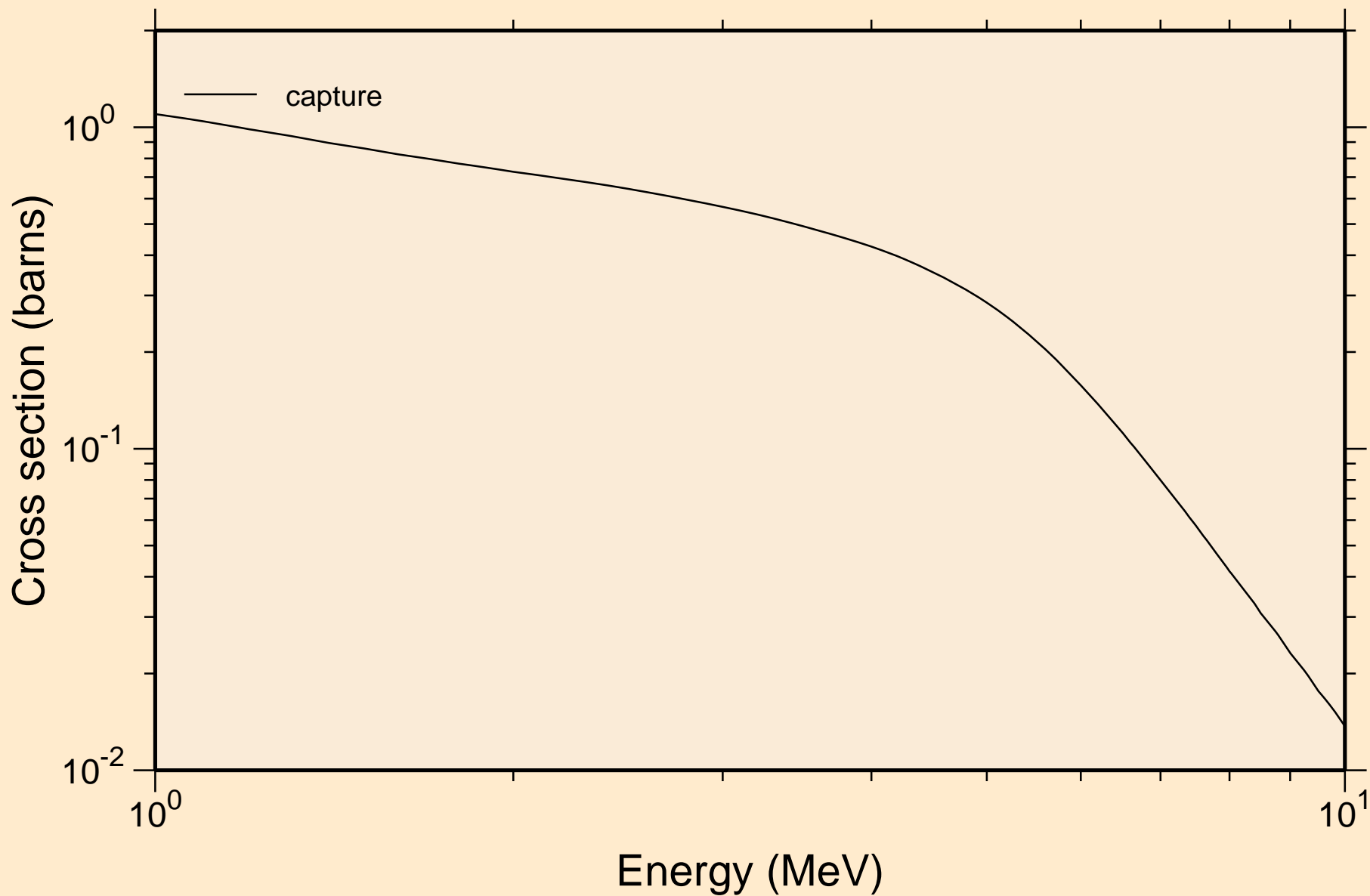


IR181 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
resonance absorption cross sections

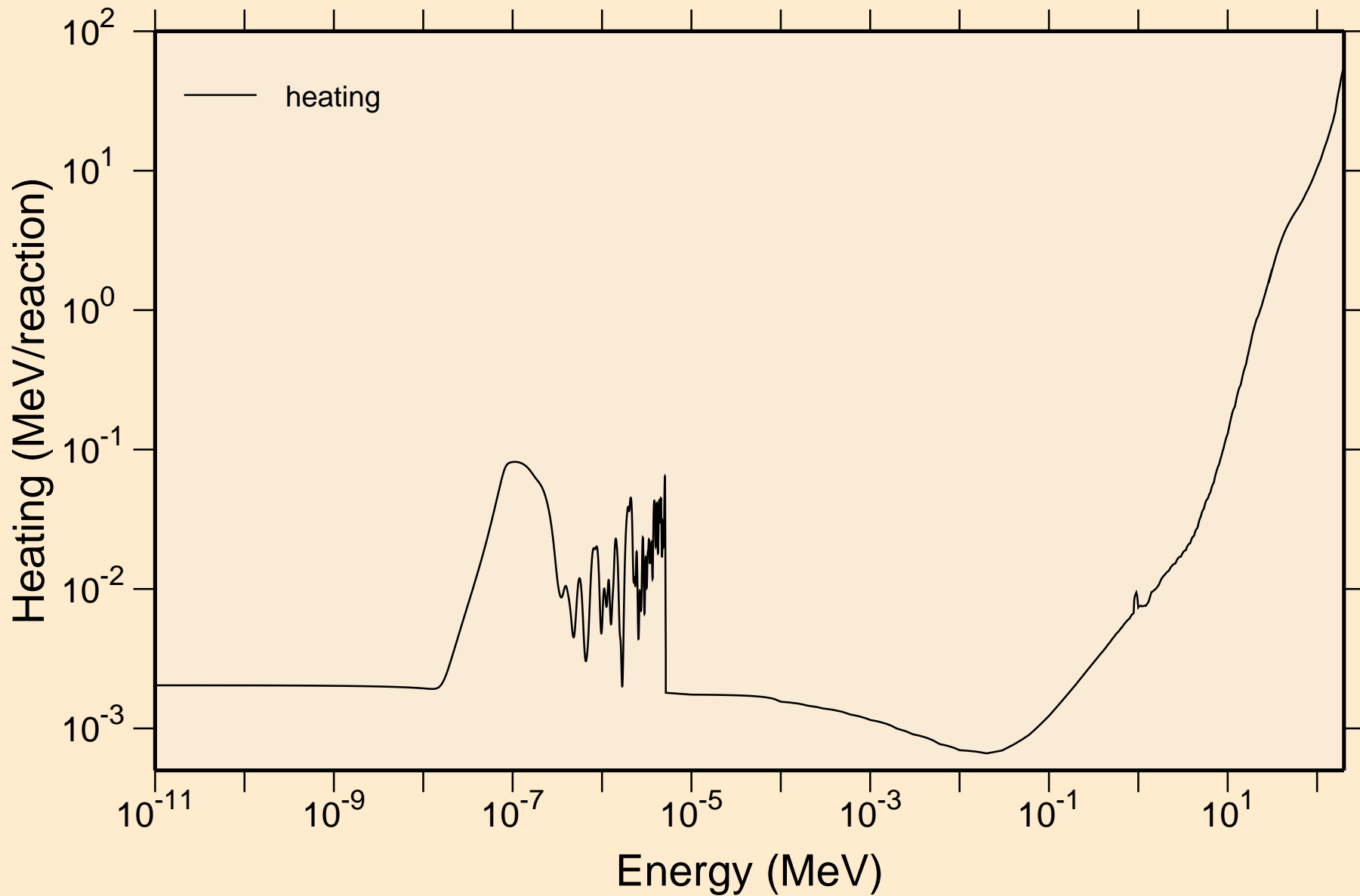




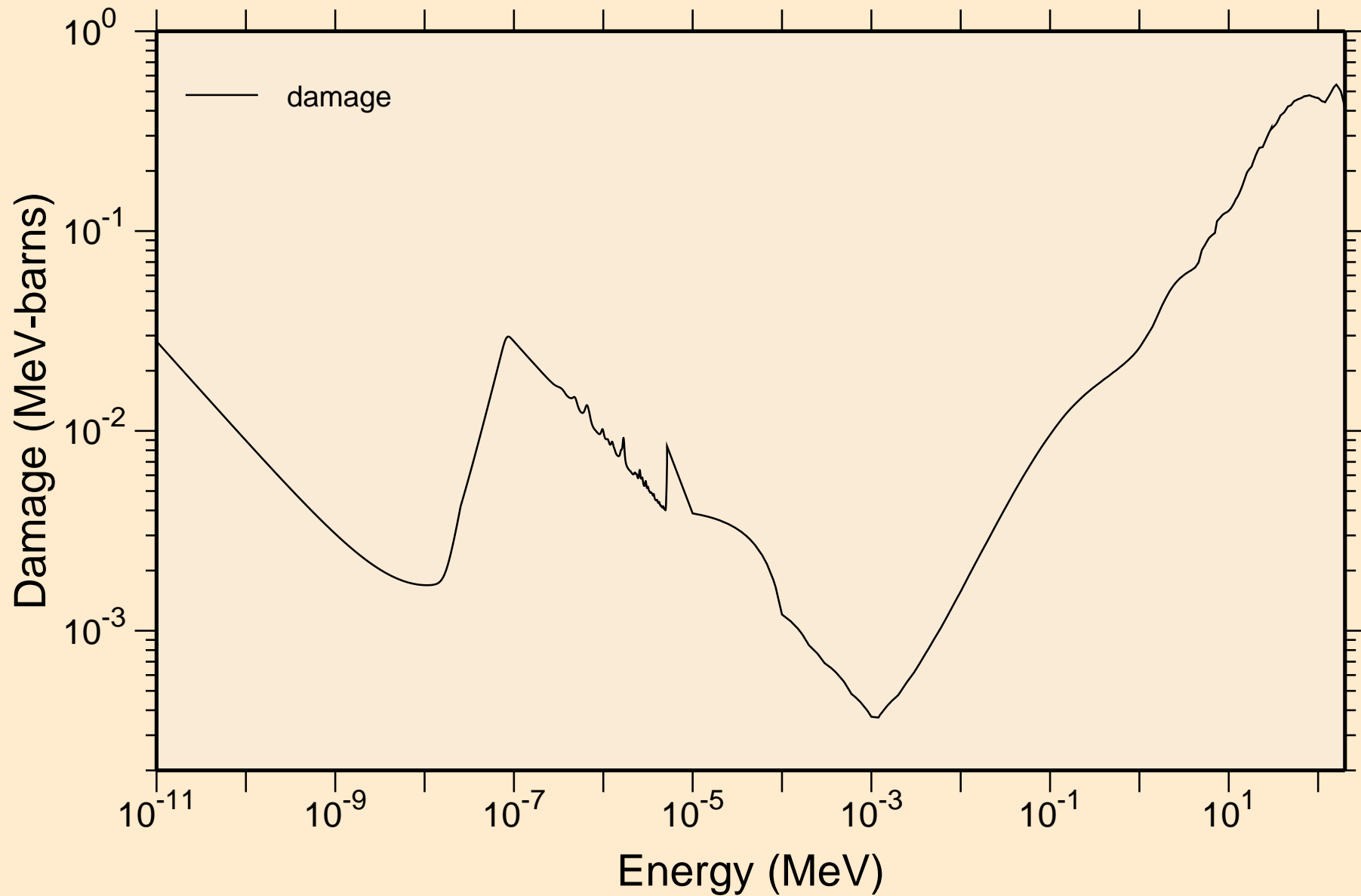
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resonance absorption cross sections



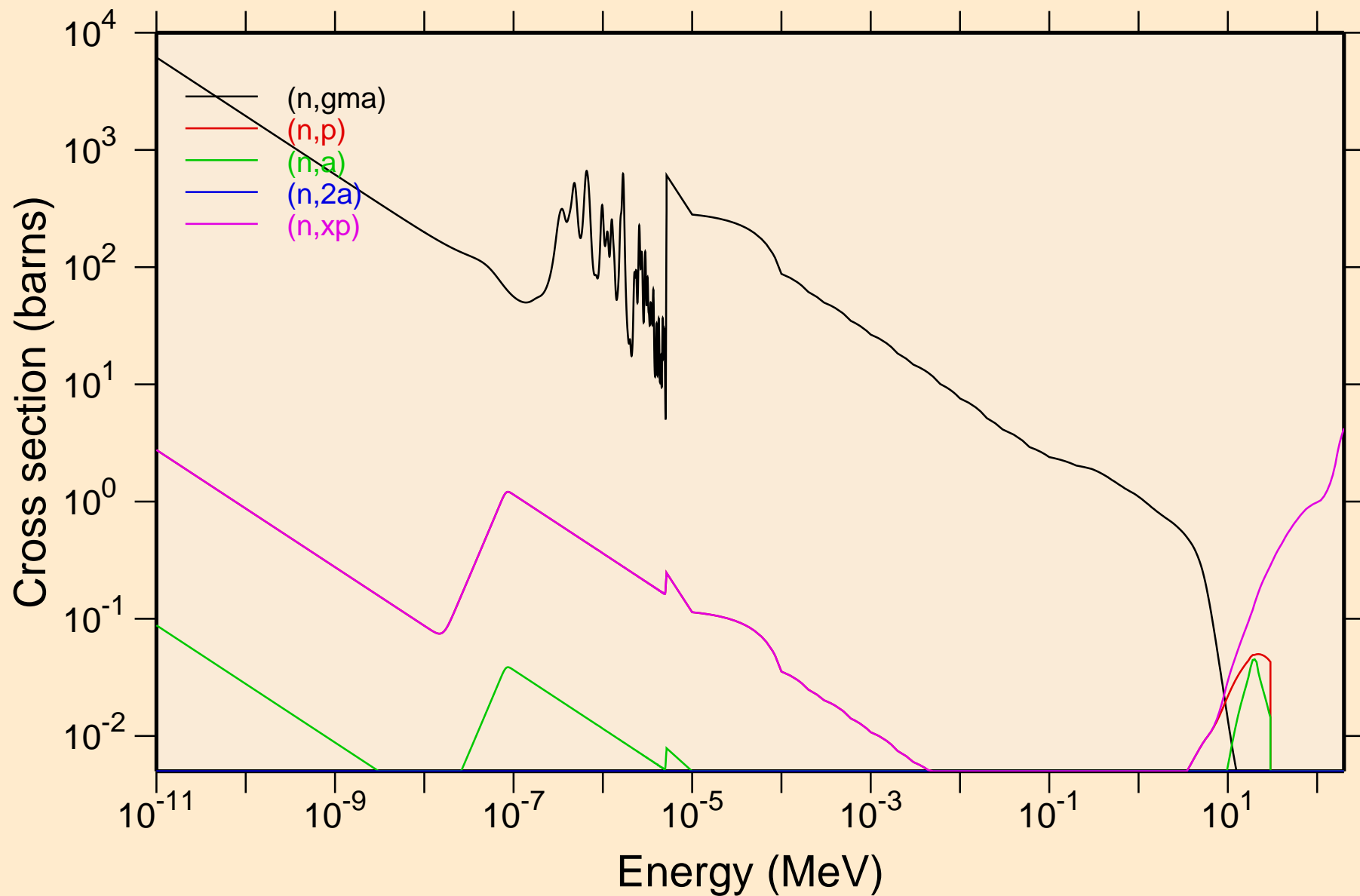
IR181 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Heating



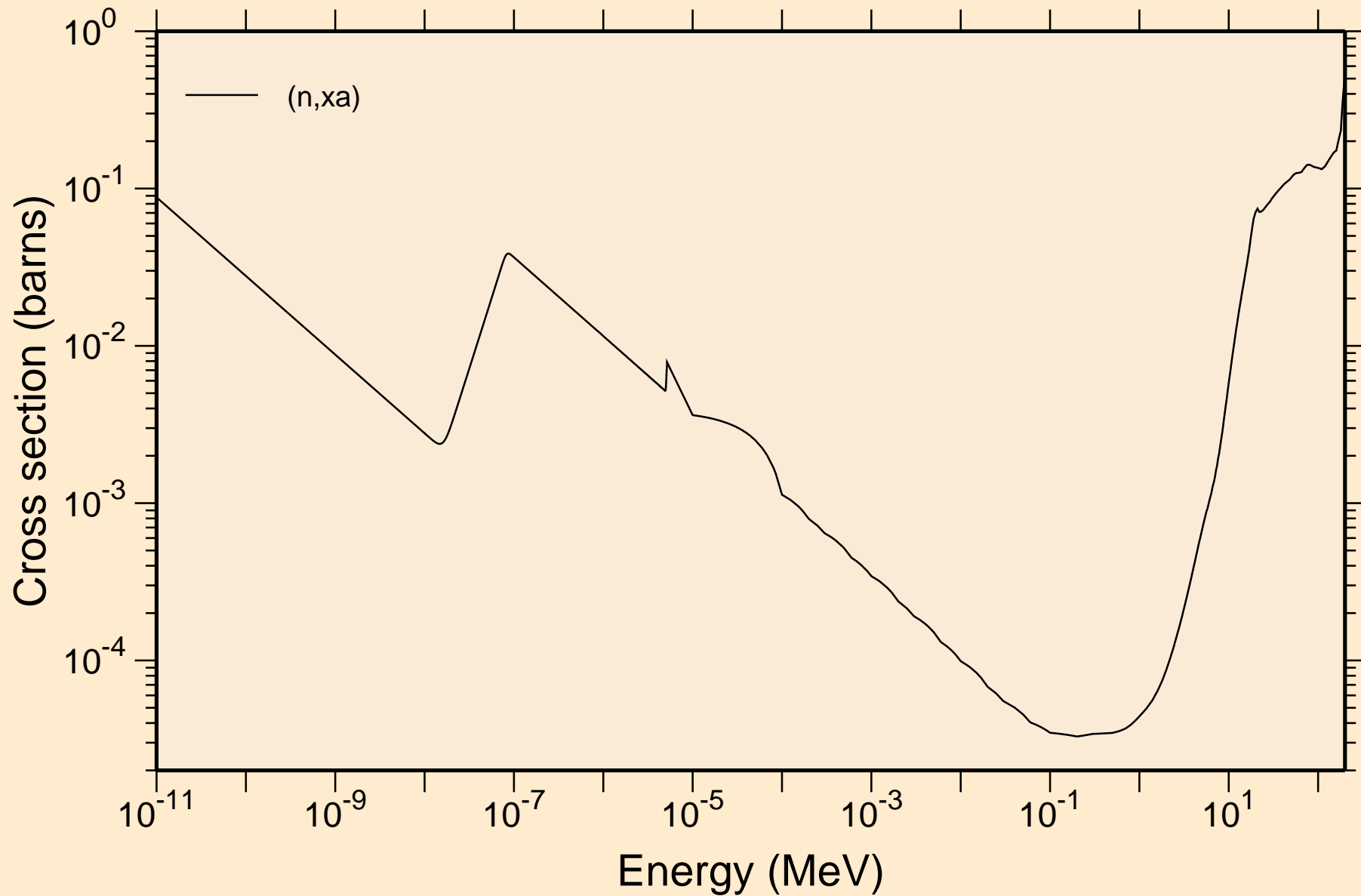
IR181 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Damage



IR181 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Non-threshold reactions

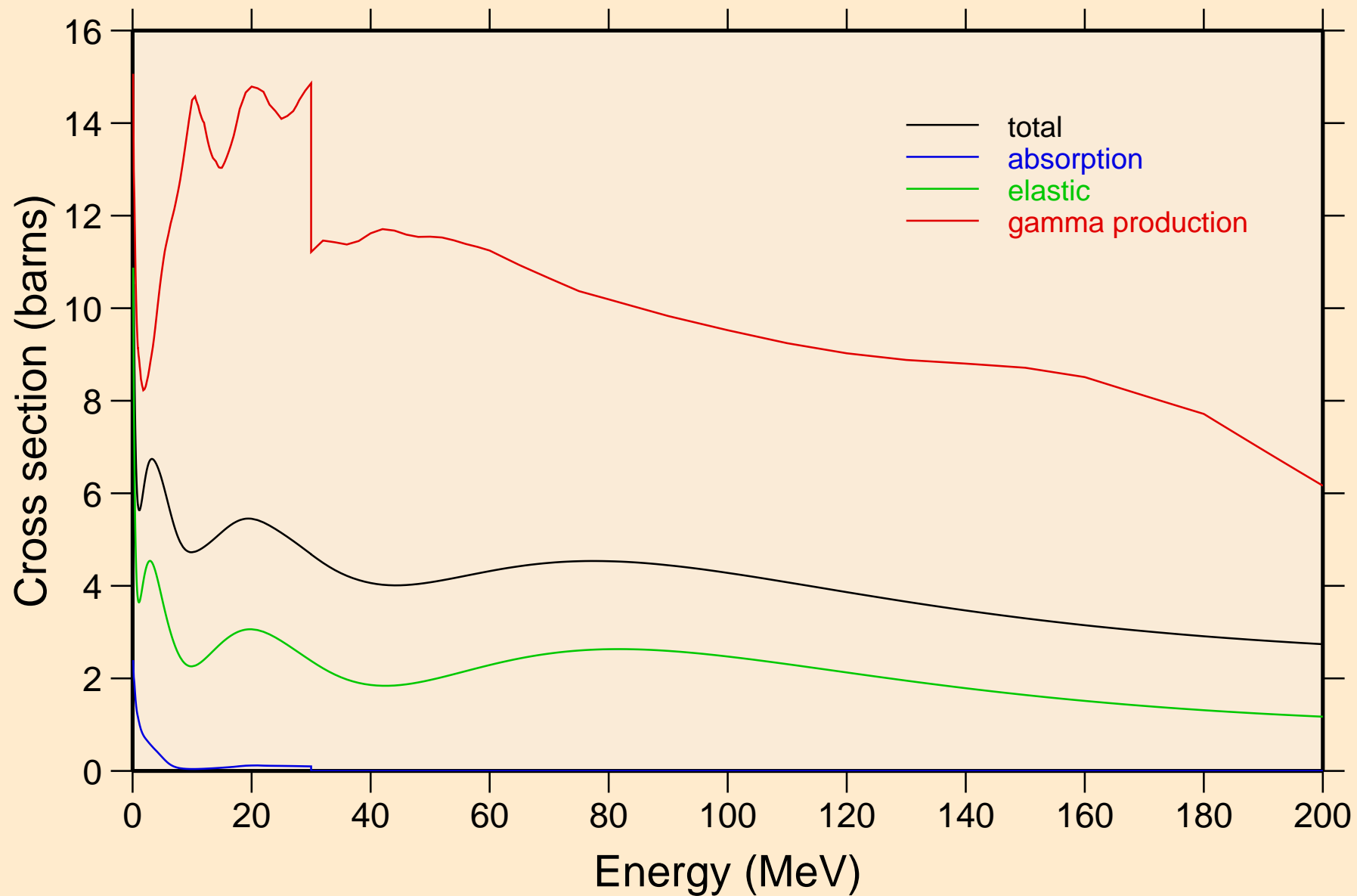


IR181 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Non-threshold reactions

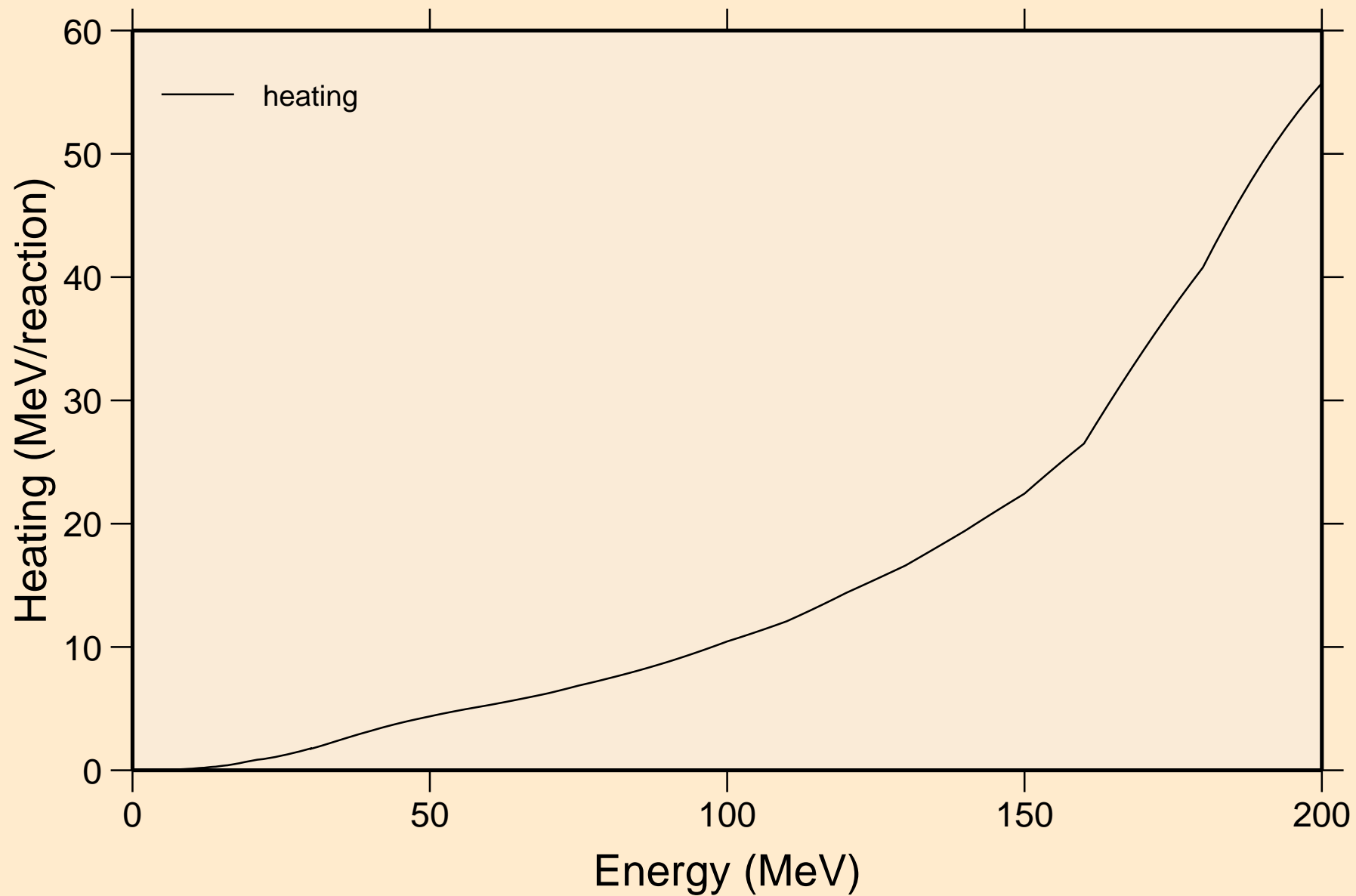


# IR181 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K

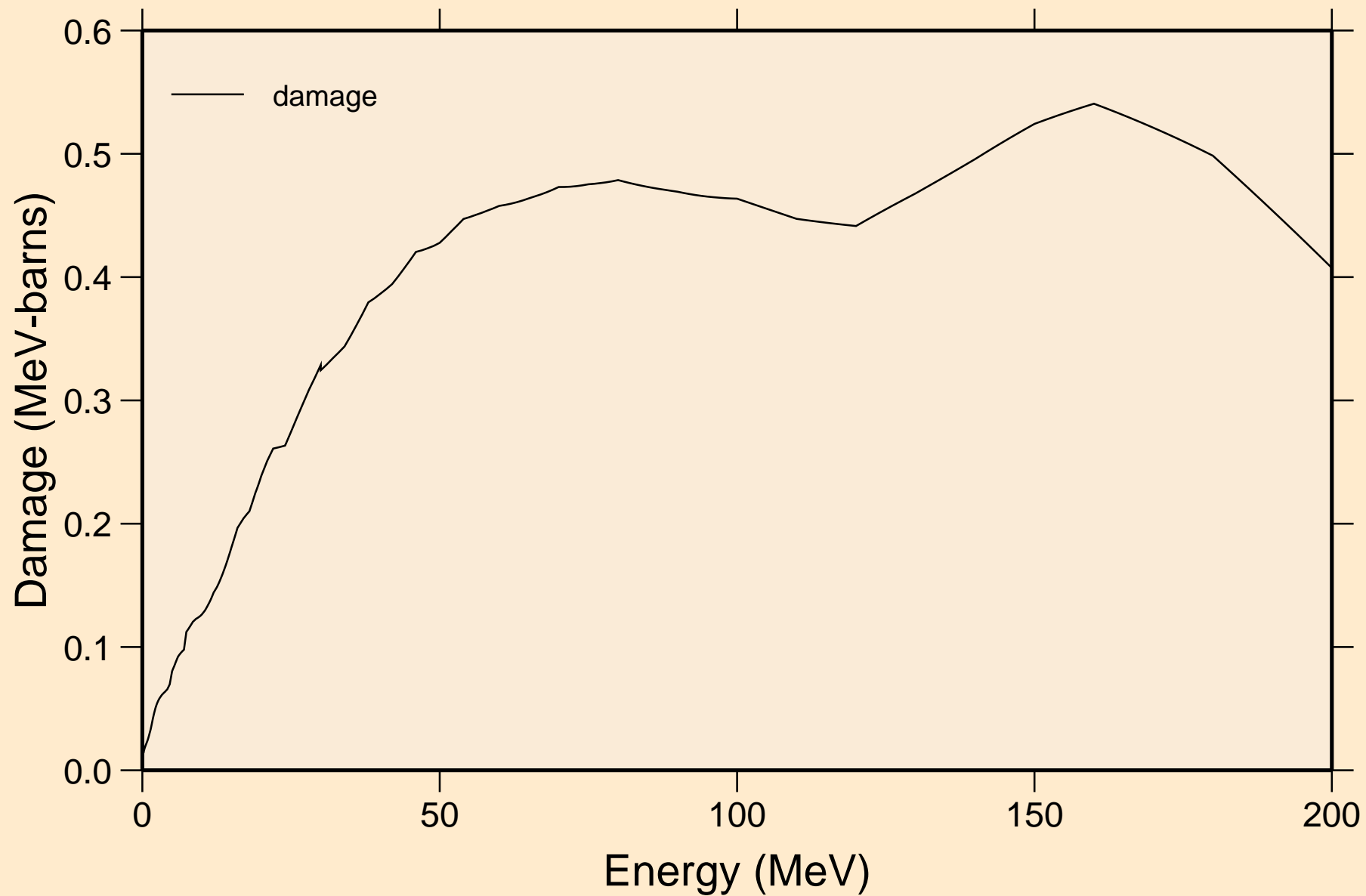
## Principal cross sections



IR181 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Heating

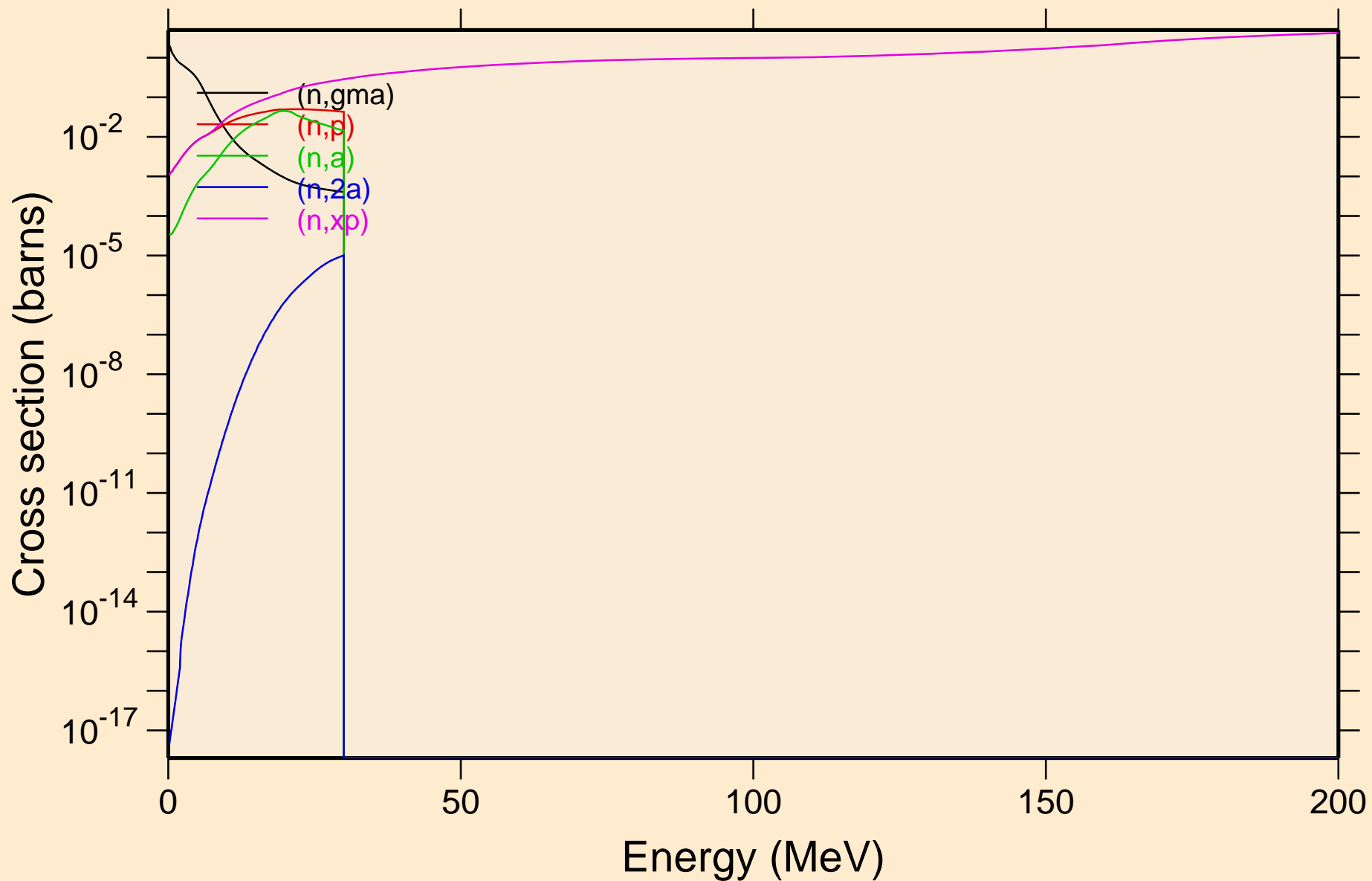


IR181 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Damage

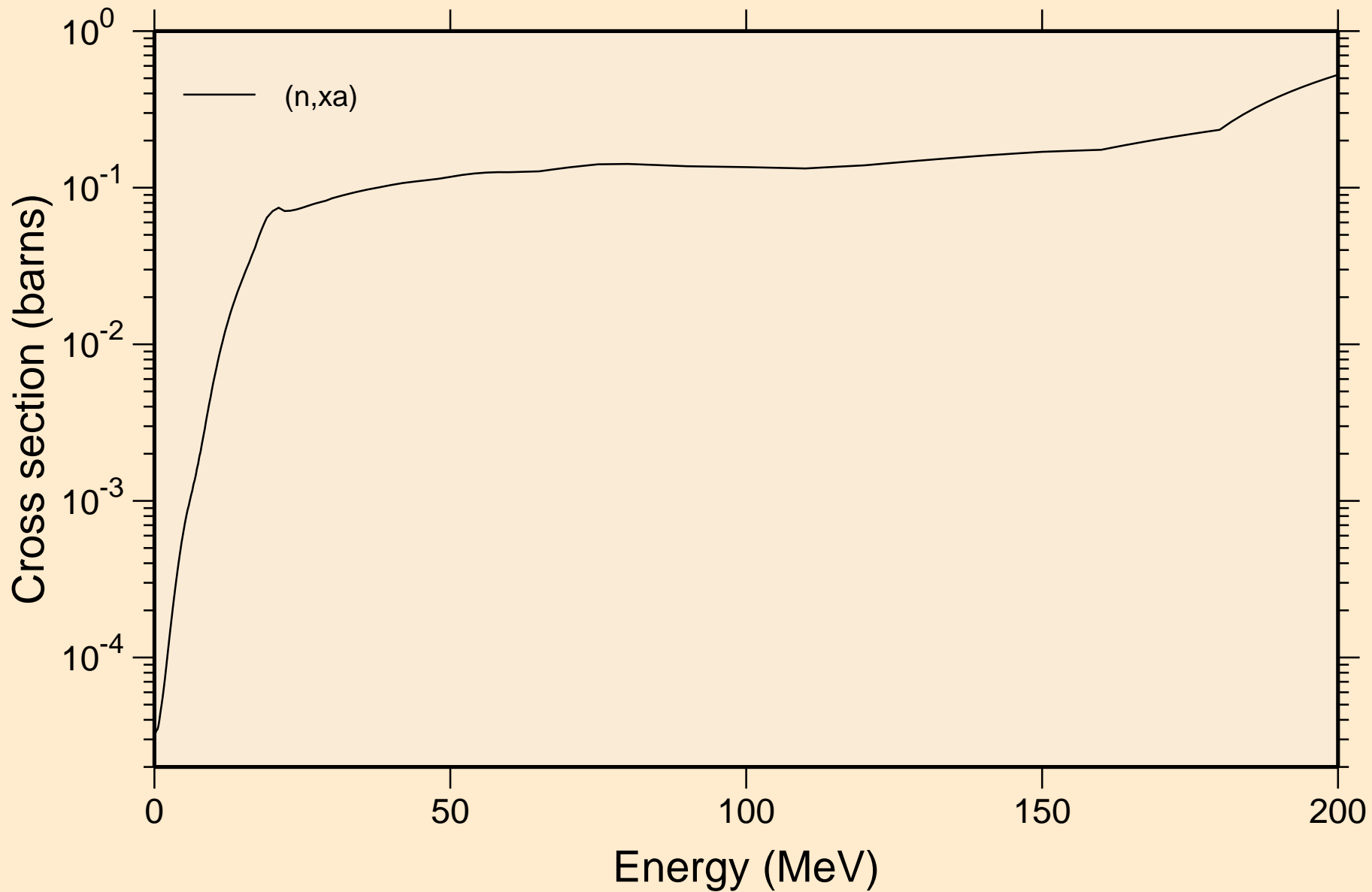




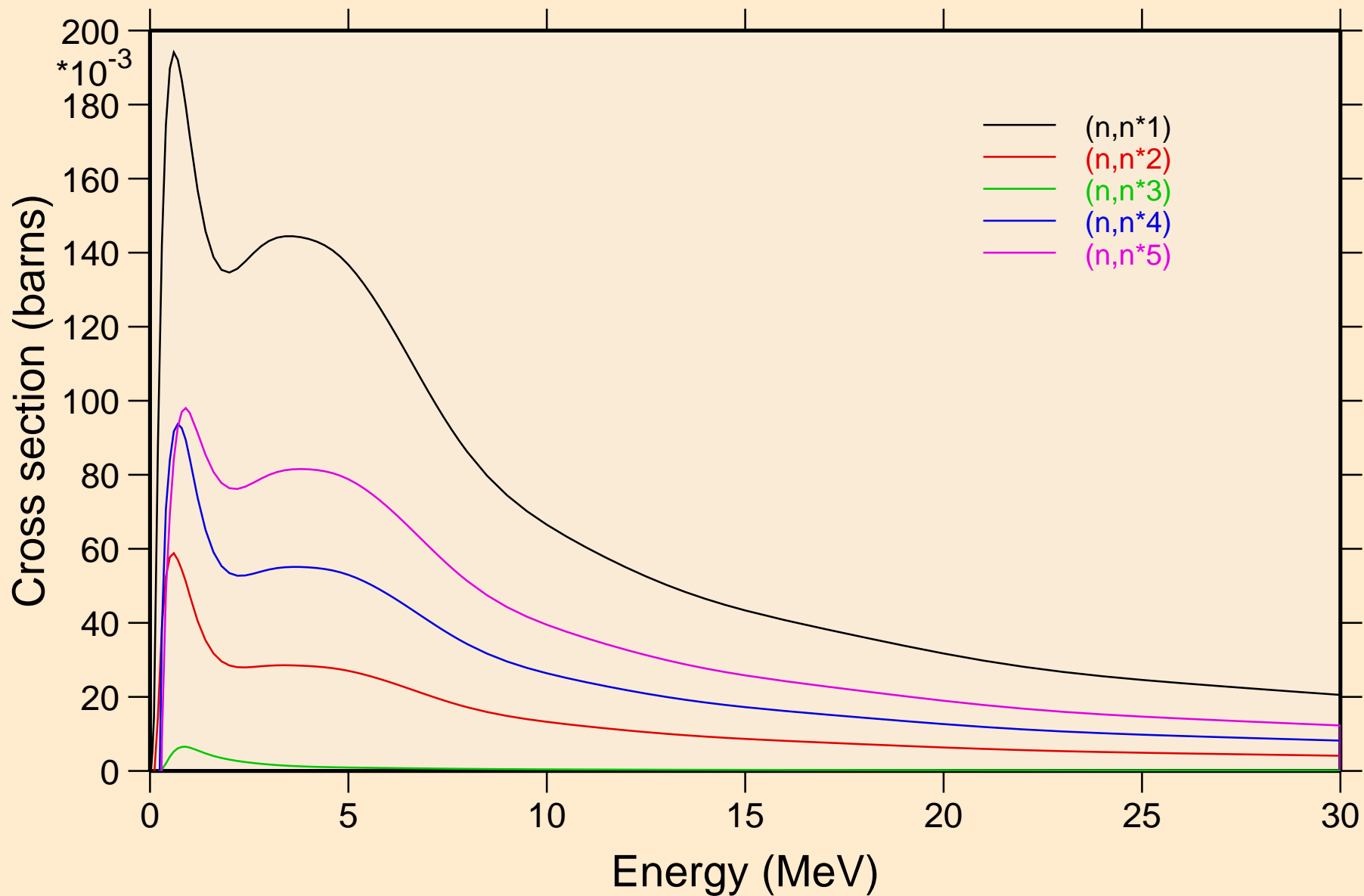
IR181 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Non-threshold reactions



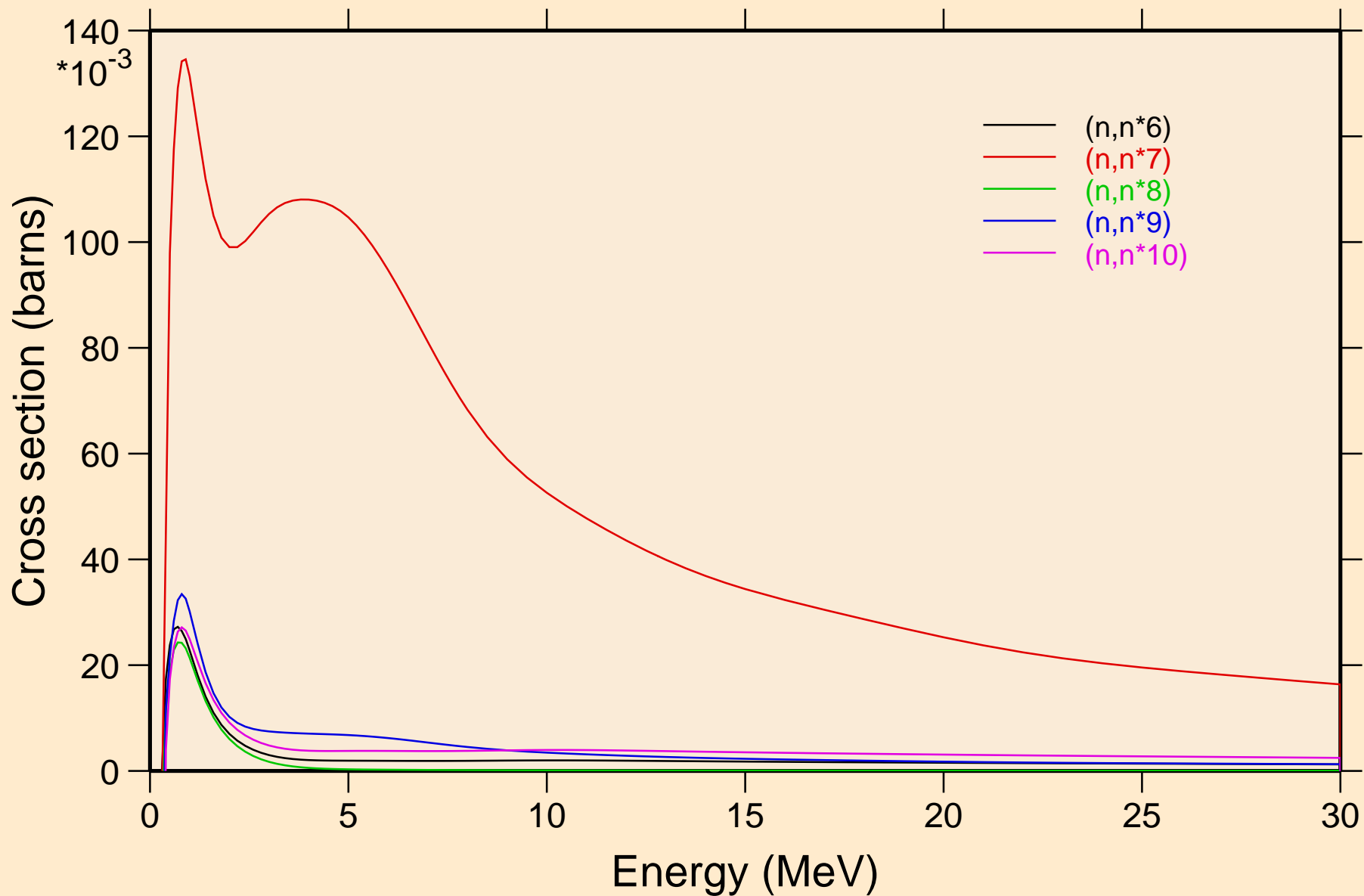
IR181 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Non-threshold reactions



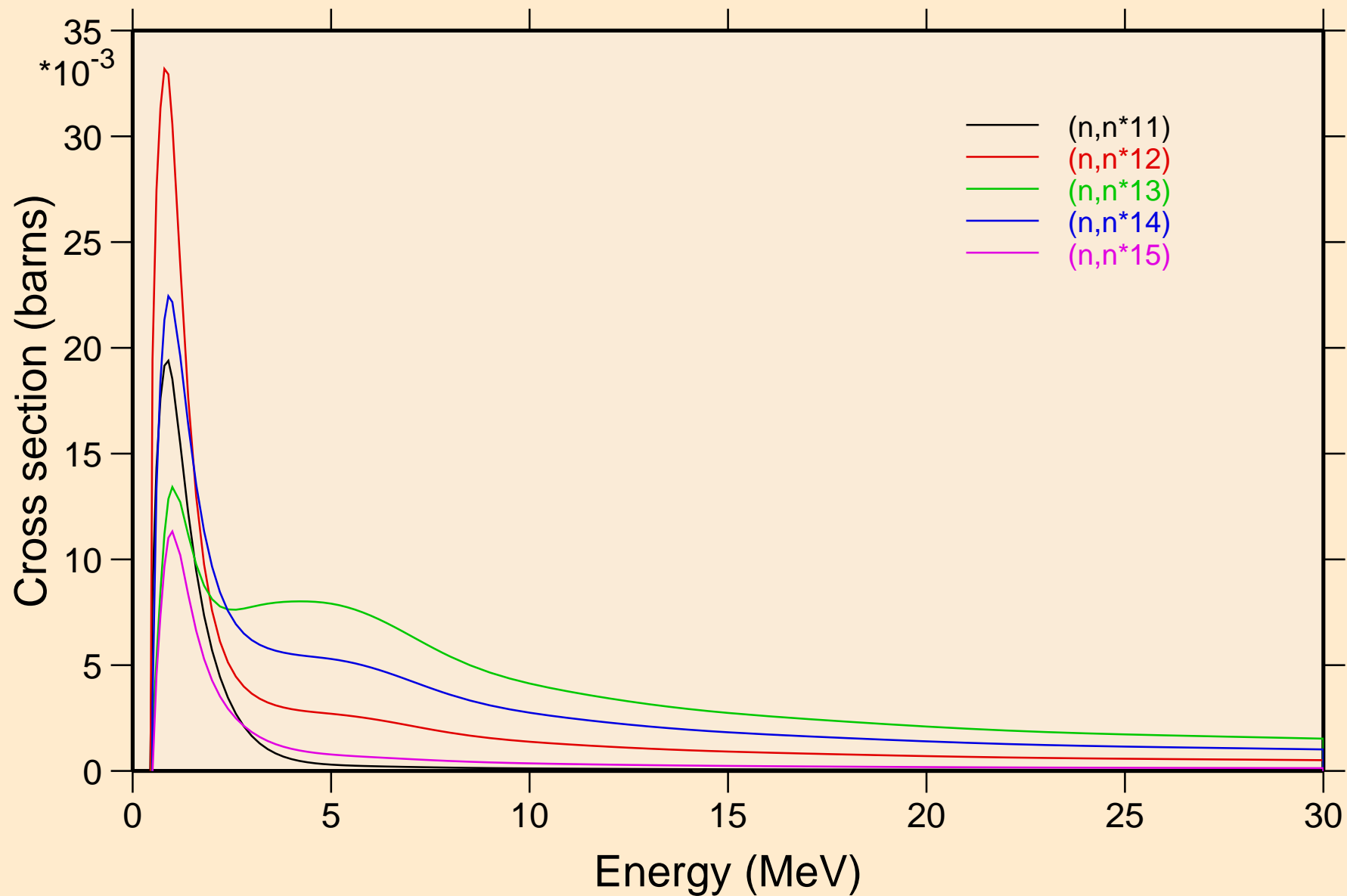
IR181 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Inelastic levels



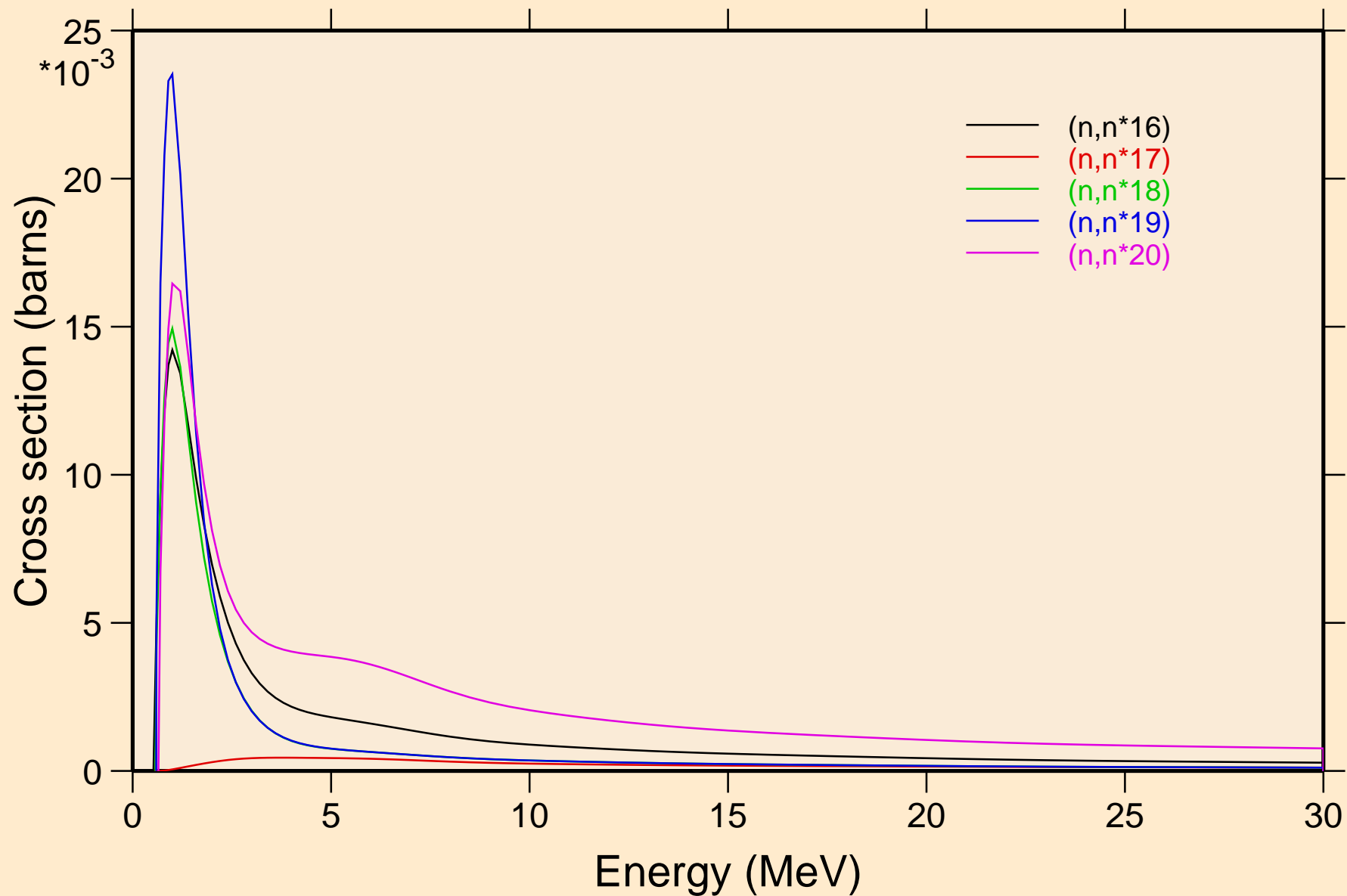
IR181 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Inelastic levels



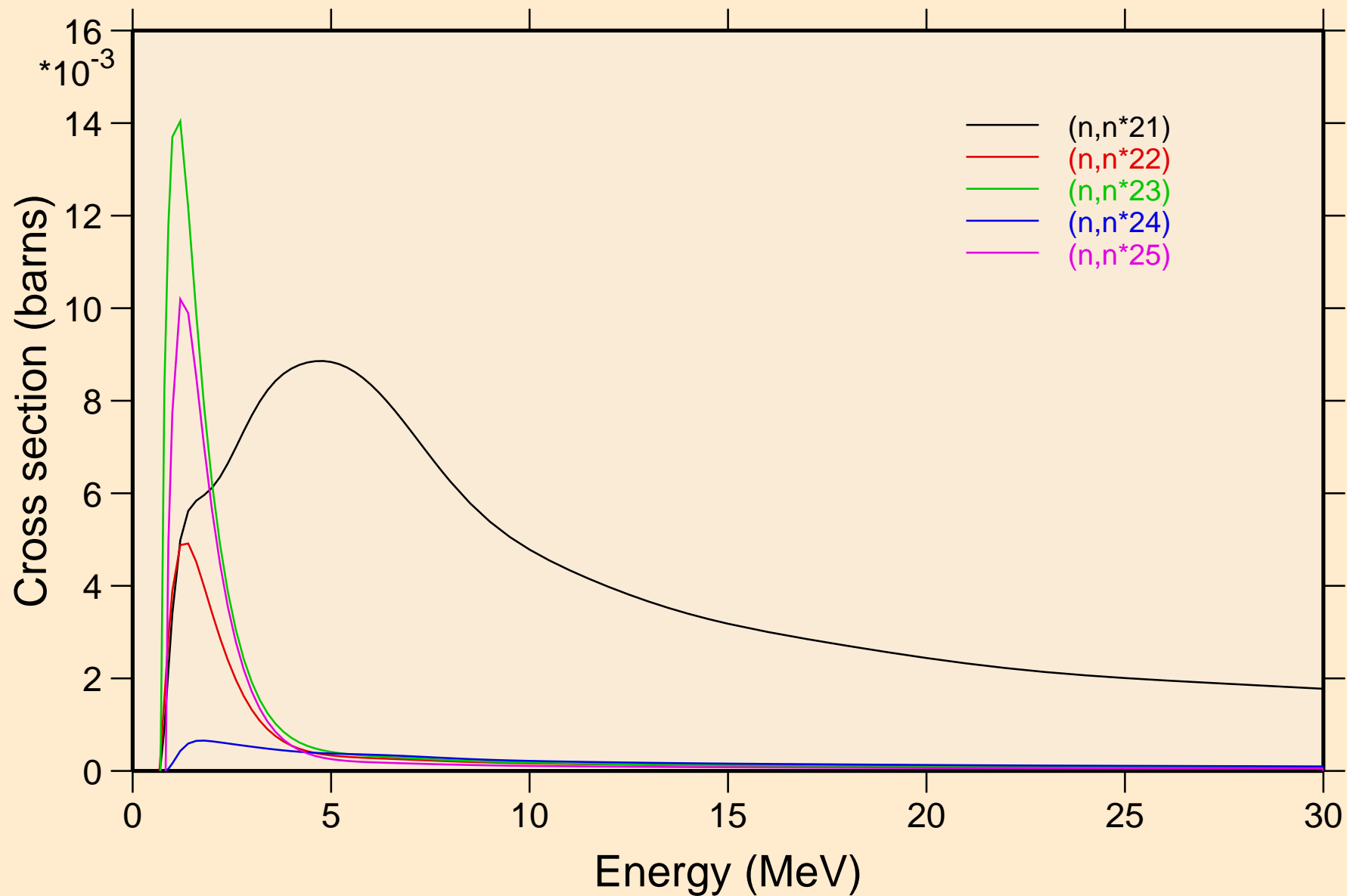
IR181 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Inelastic levels



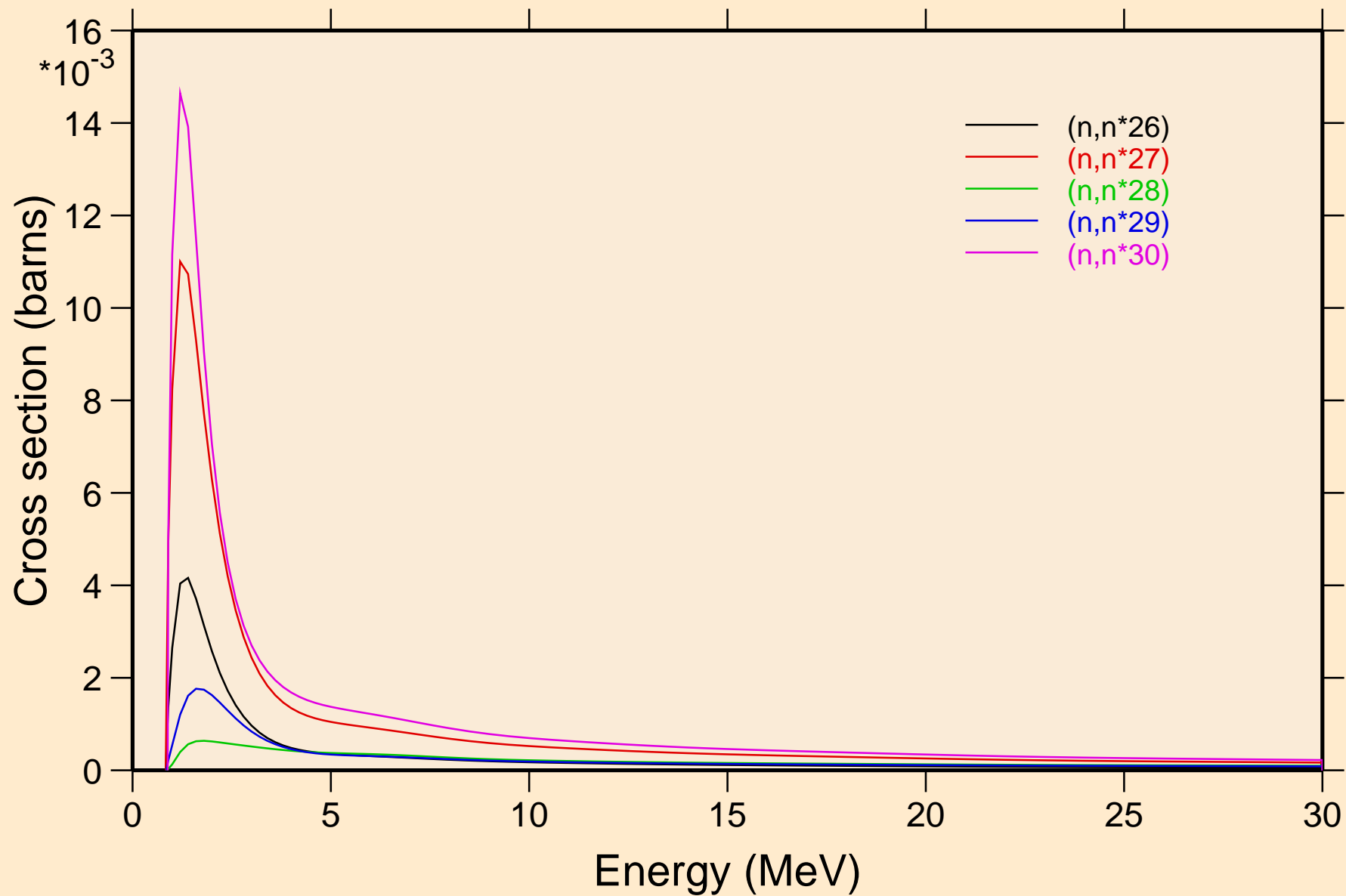
IR181 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Inelastic levels



IR181 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Inelastic levels

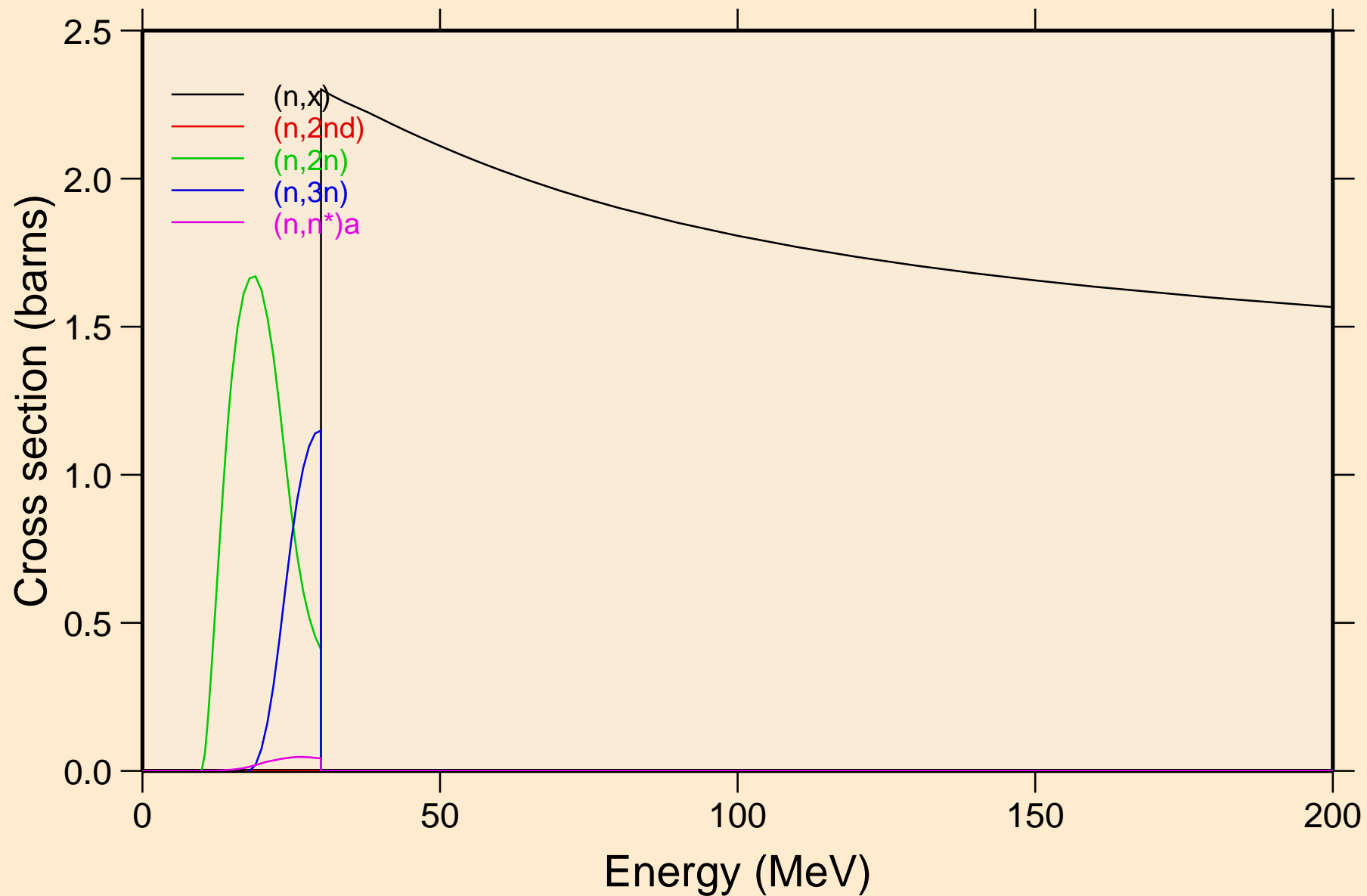


IR181 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Inelastic levels

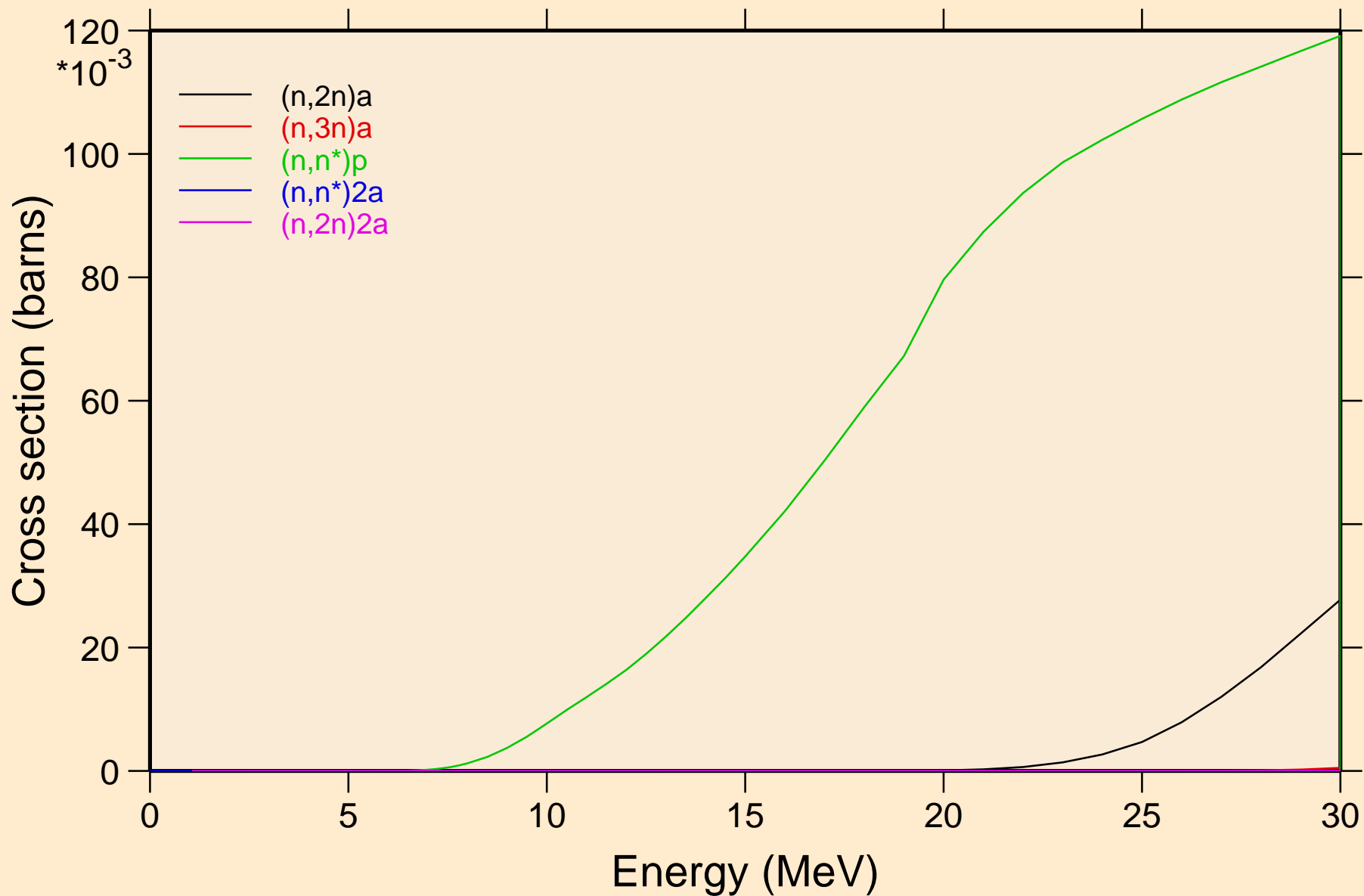




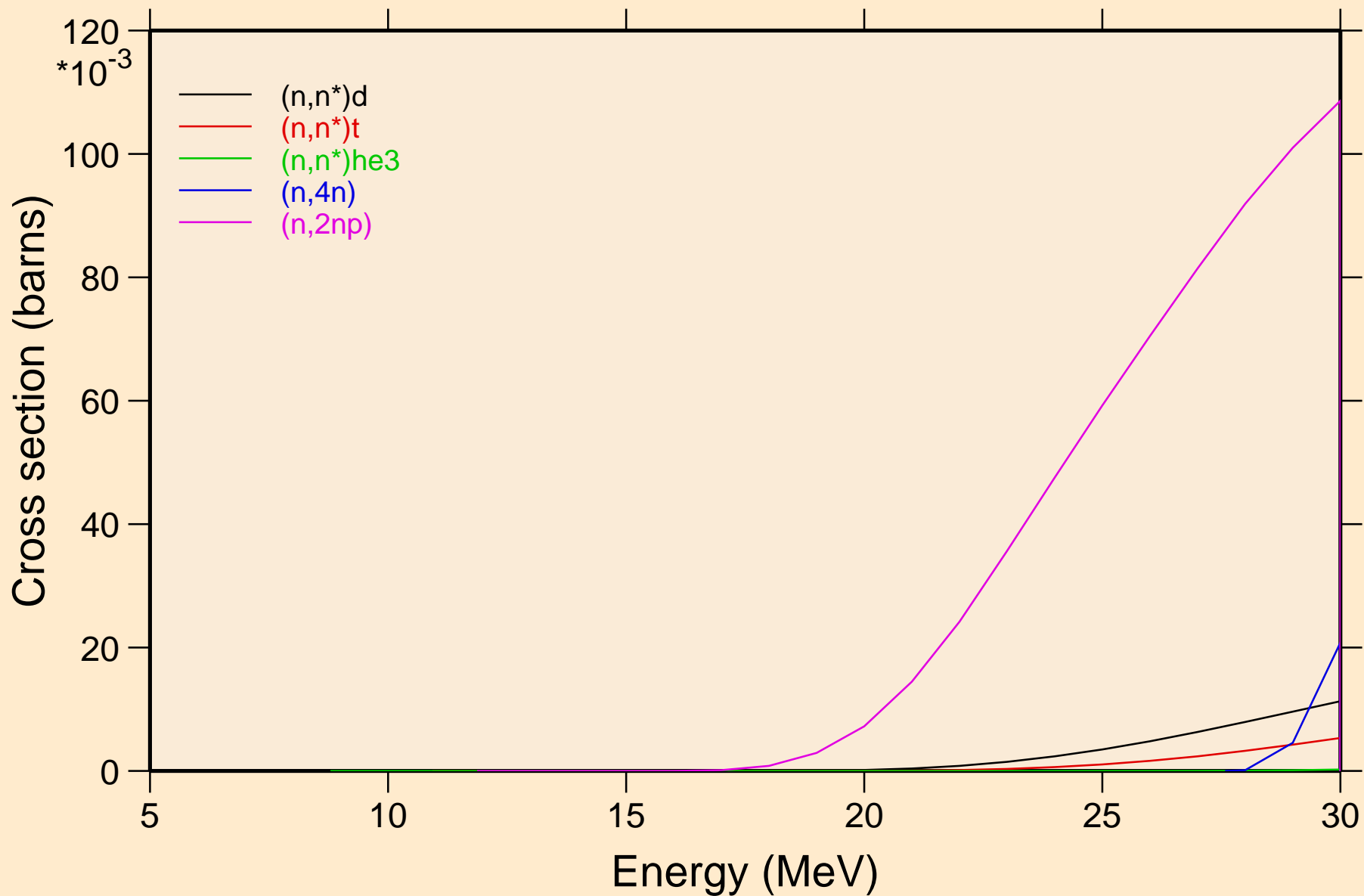
IR181 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Threshold reactions



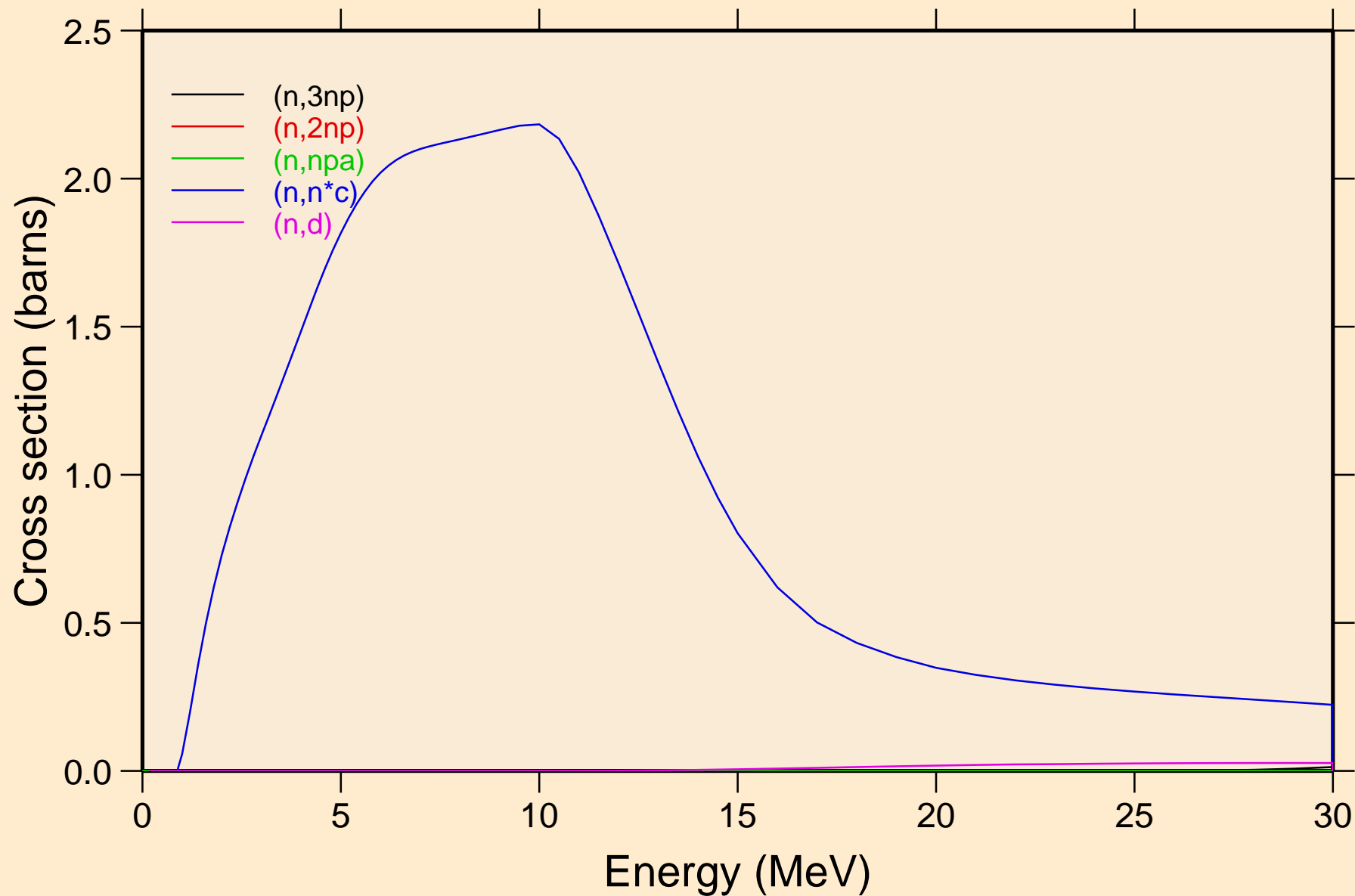
IR181 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Threshold reactions



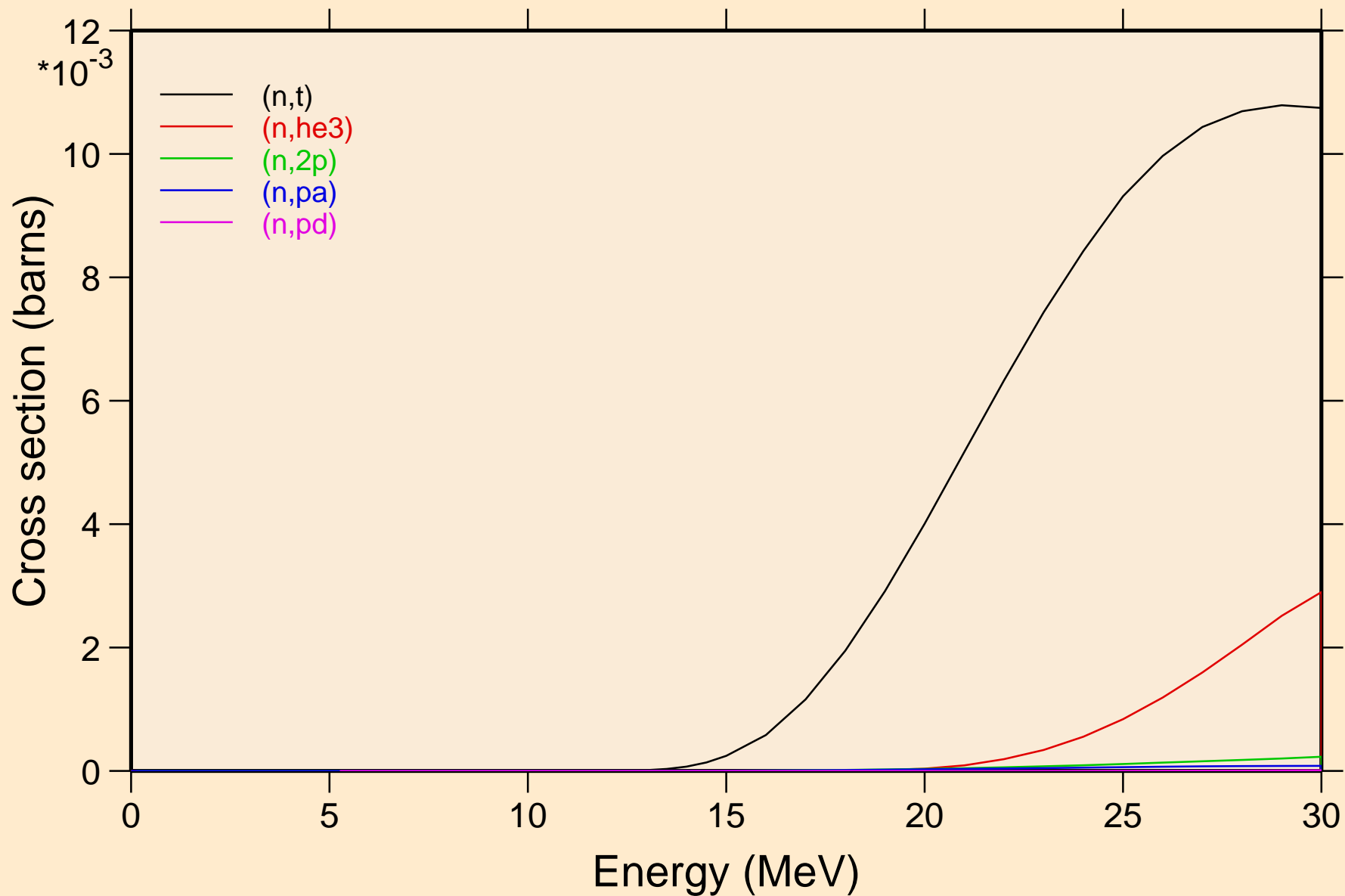
IR181 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Threshold reactions



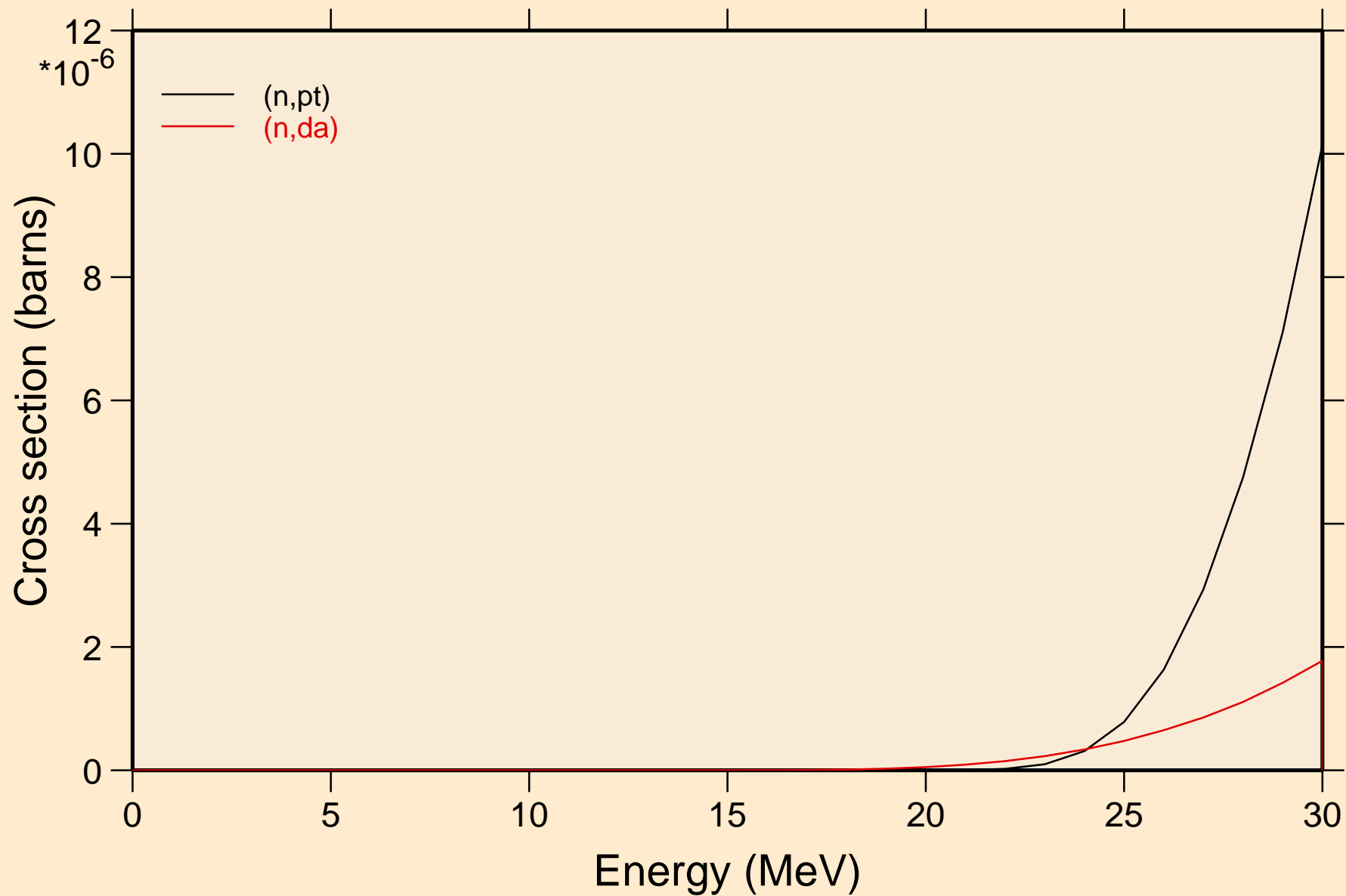
IR181 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Threshold reactions



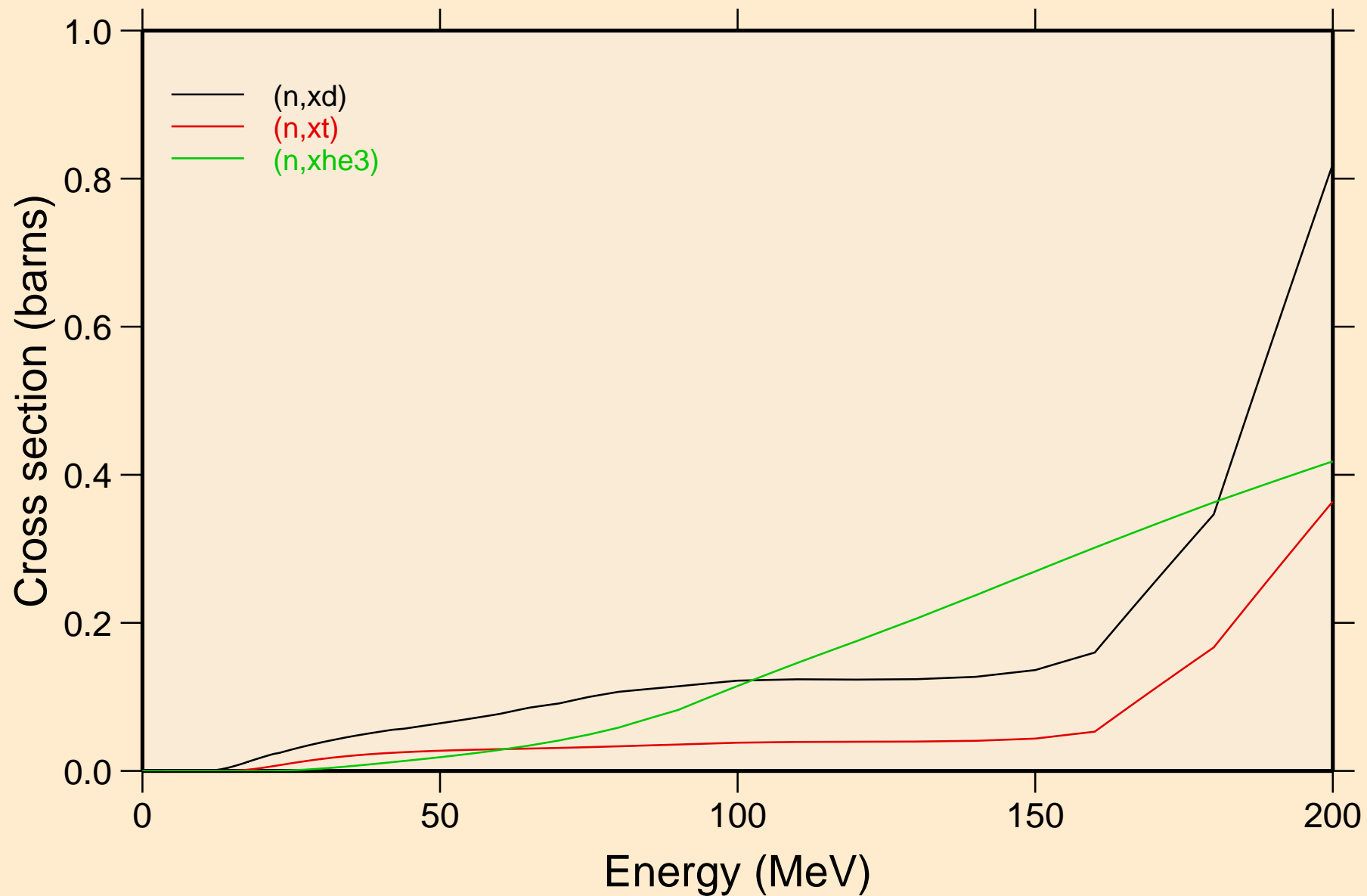
IR181 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Threshold reactions



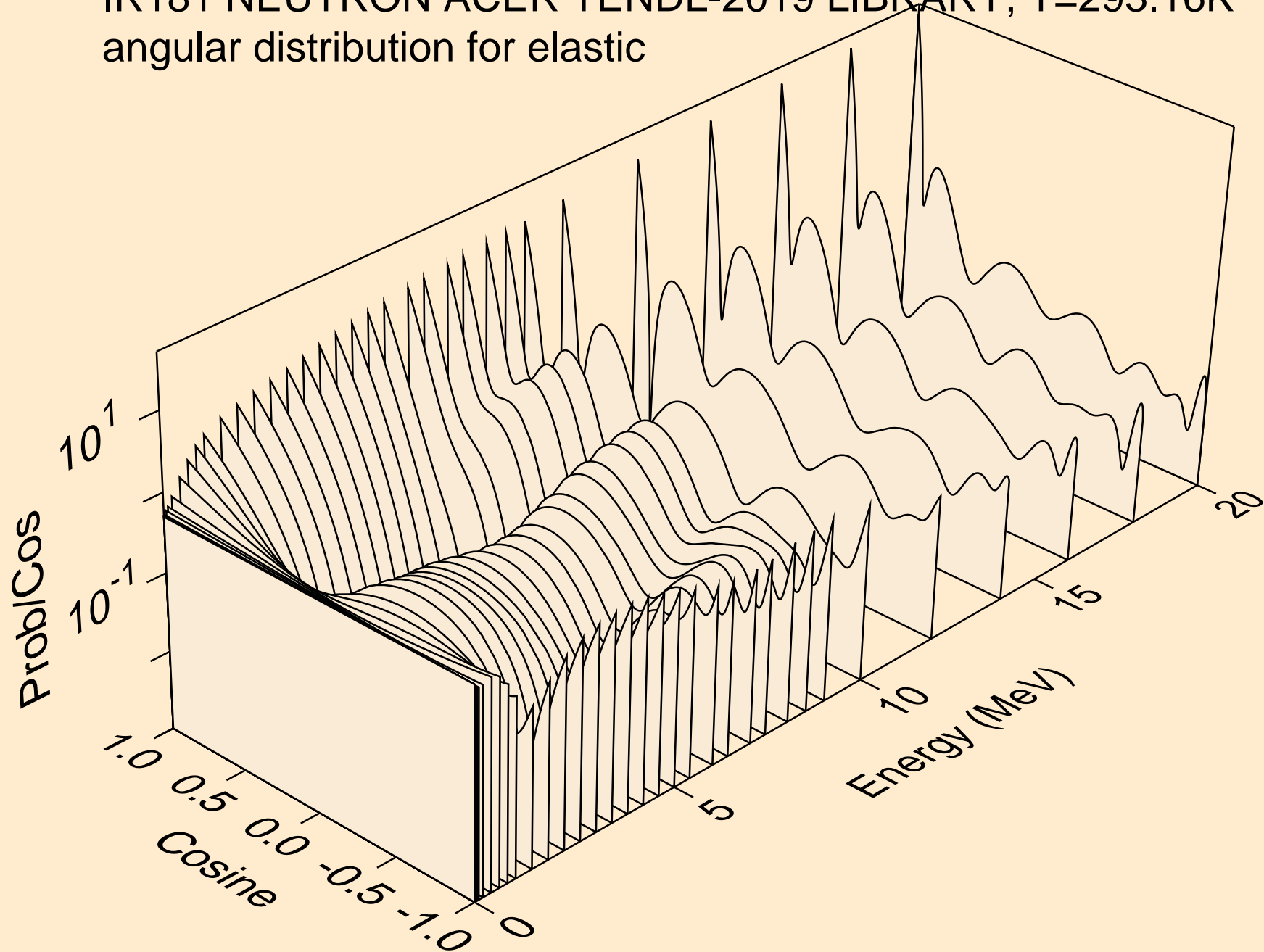
IR181 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Threshold reactions



IR181 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Threshold reactions

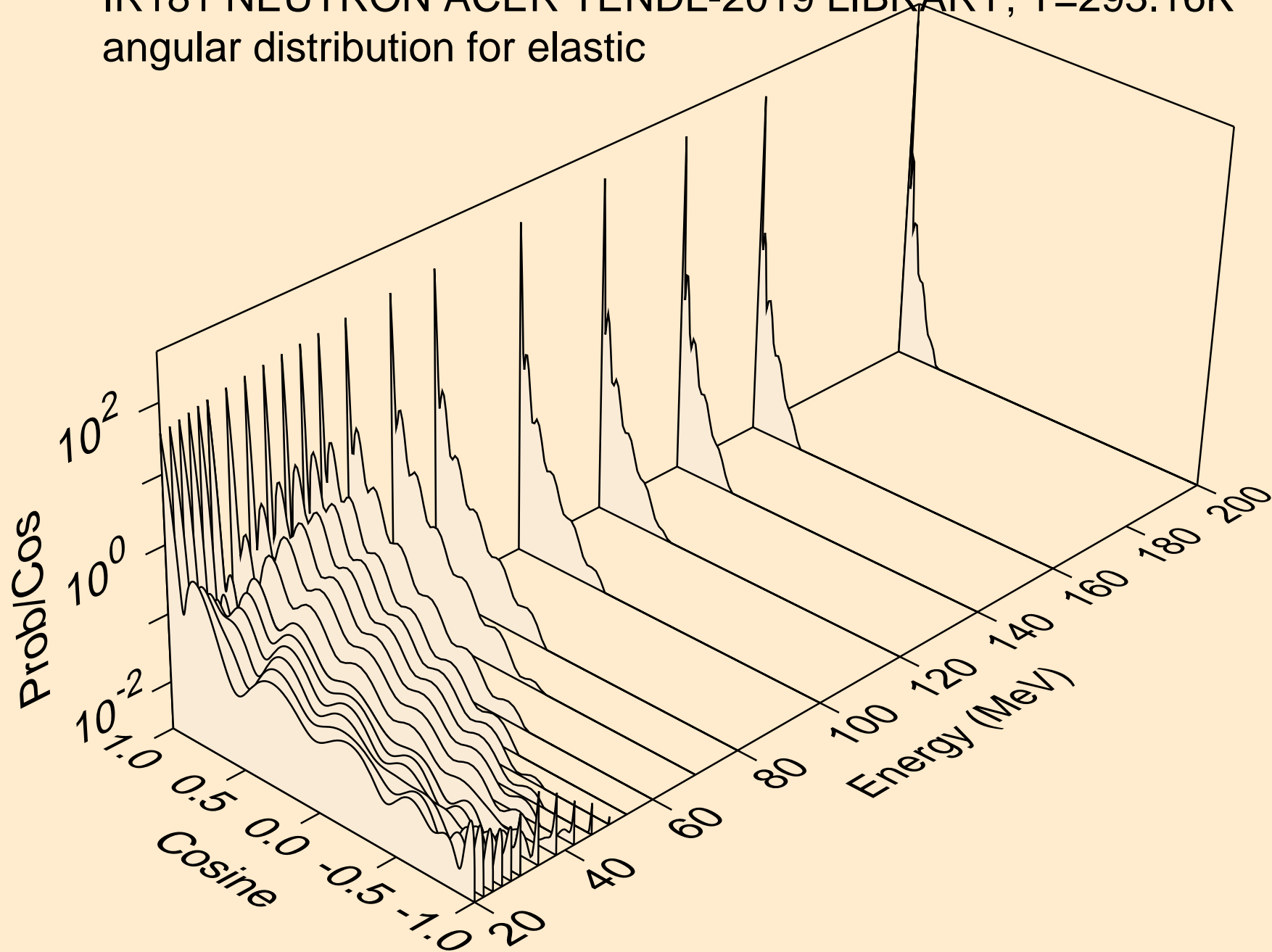


IR181 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for elastic

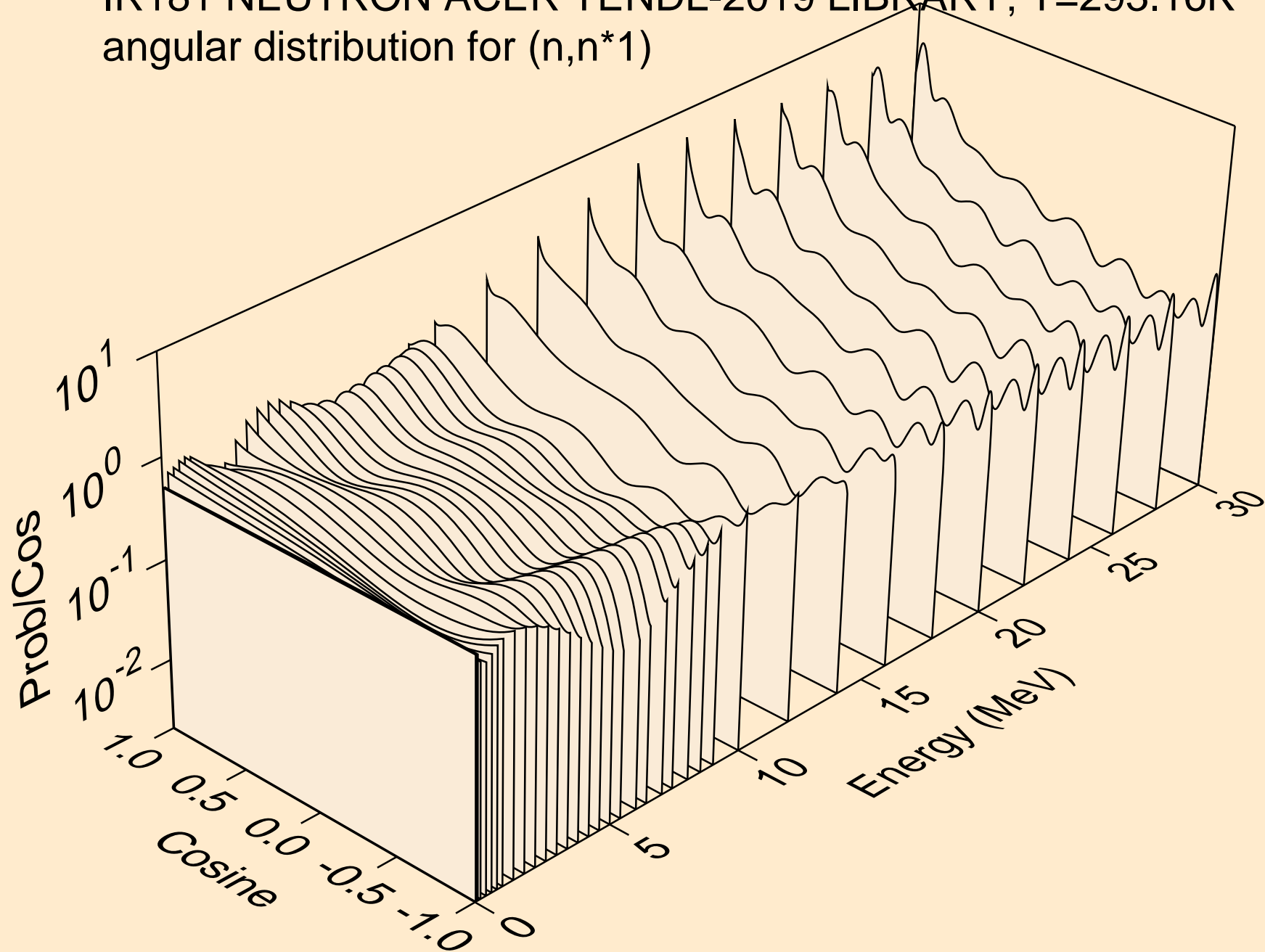




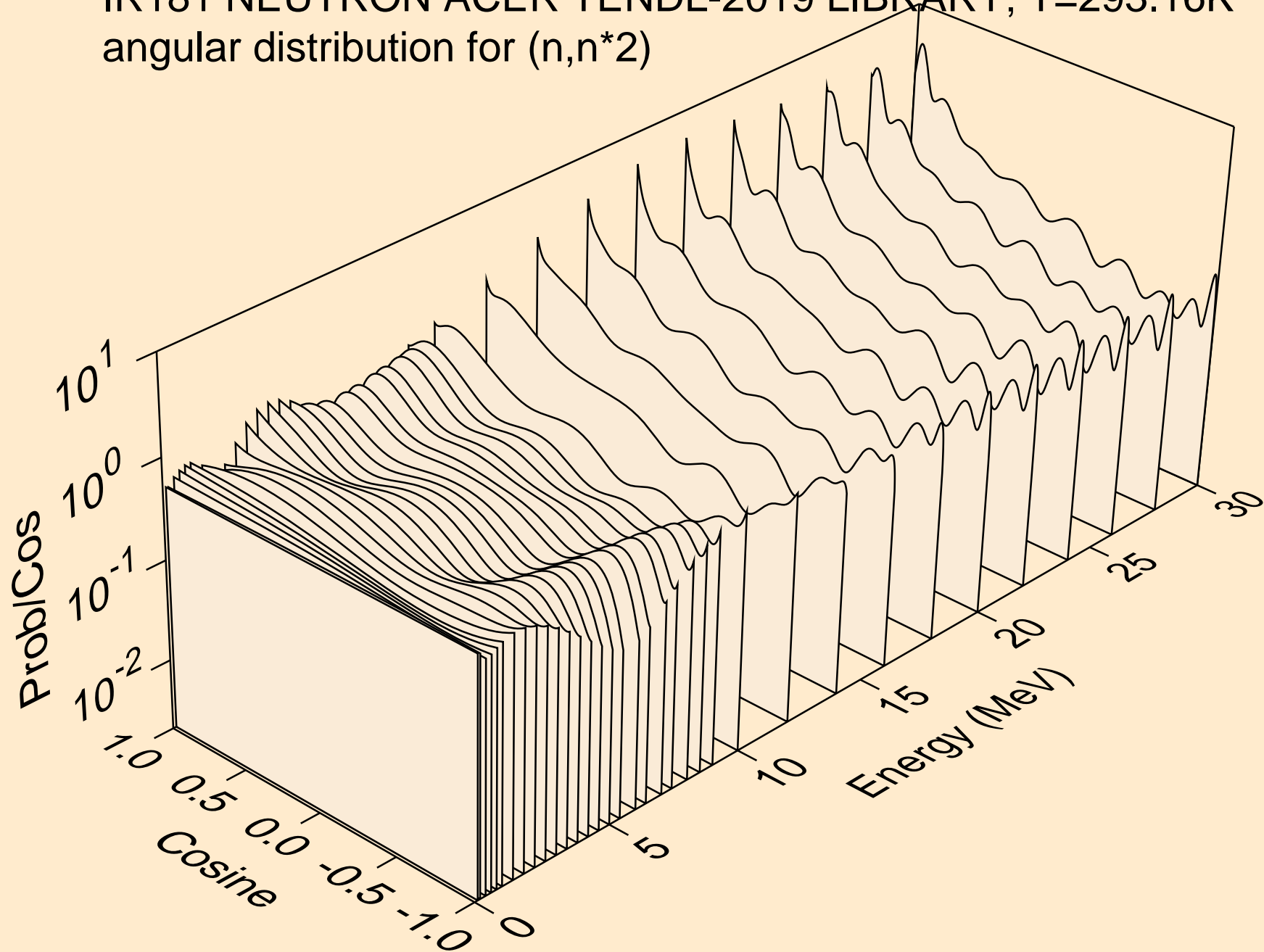
IR181 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for elastic



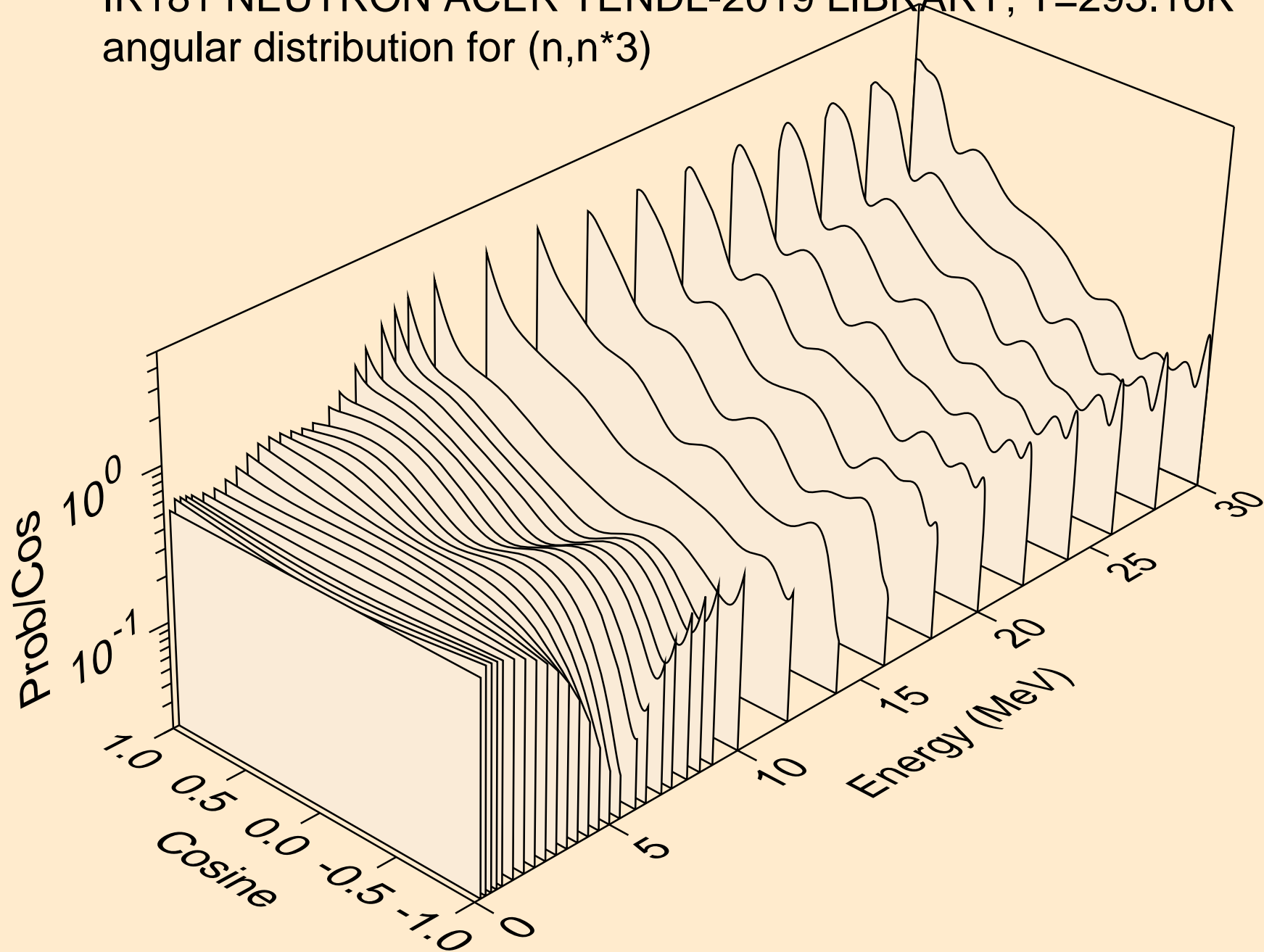
IR181 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*1)



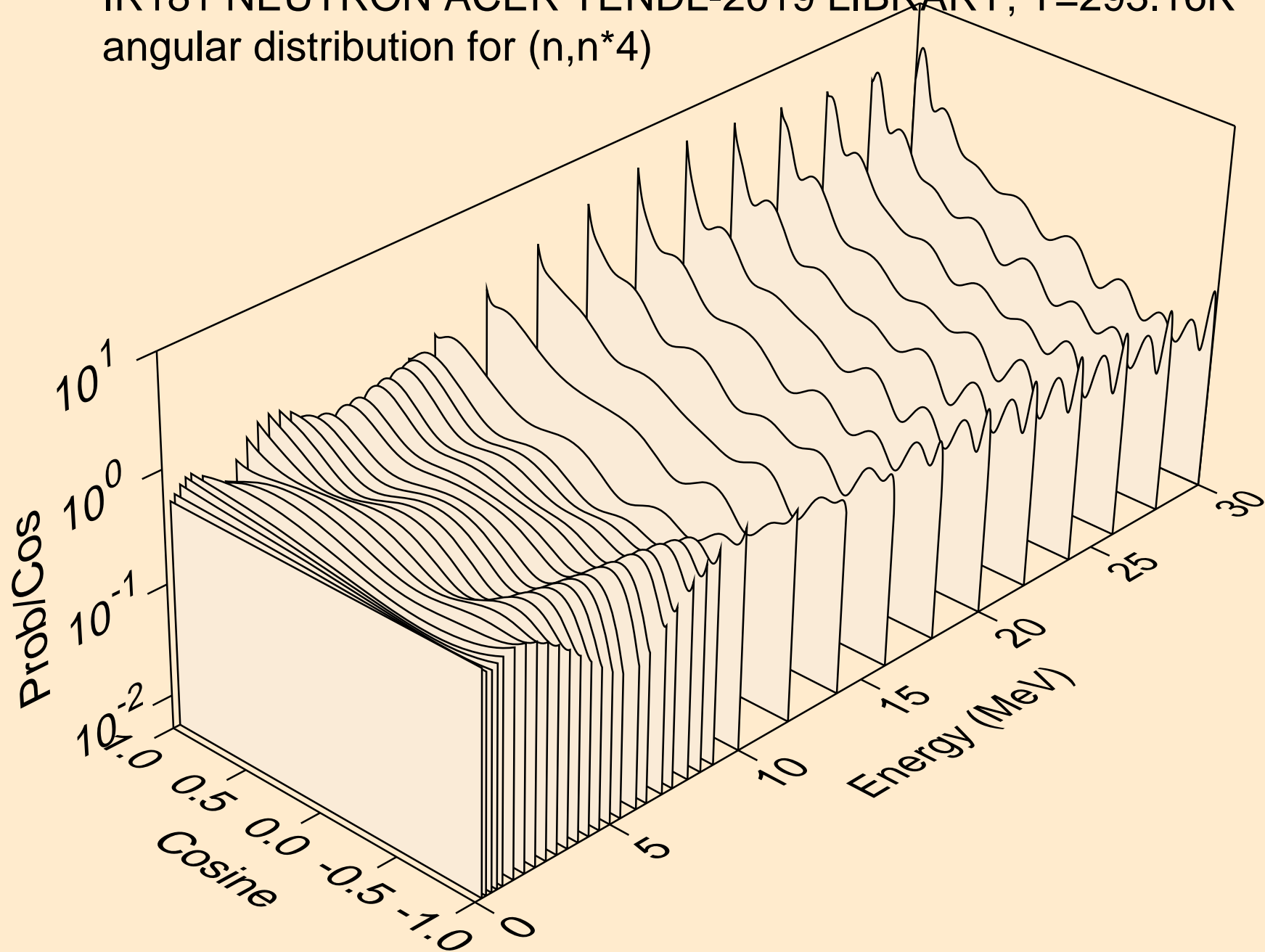
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angular distribution for (n,n\*2)



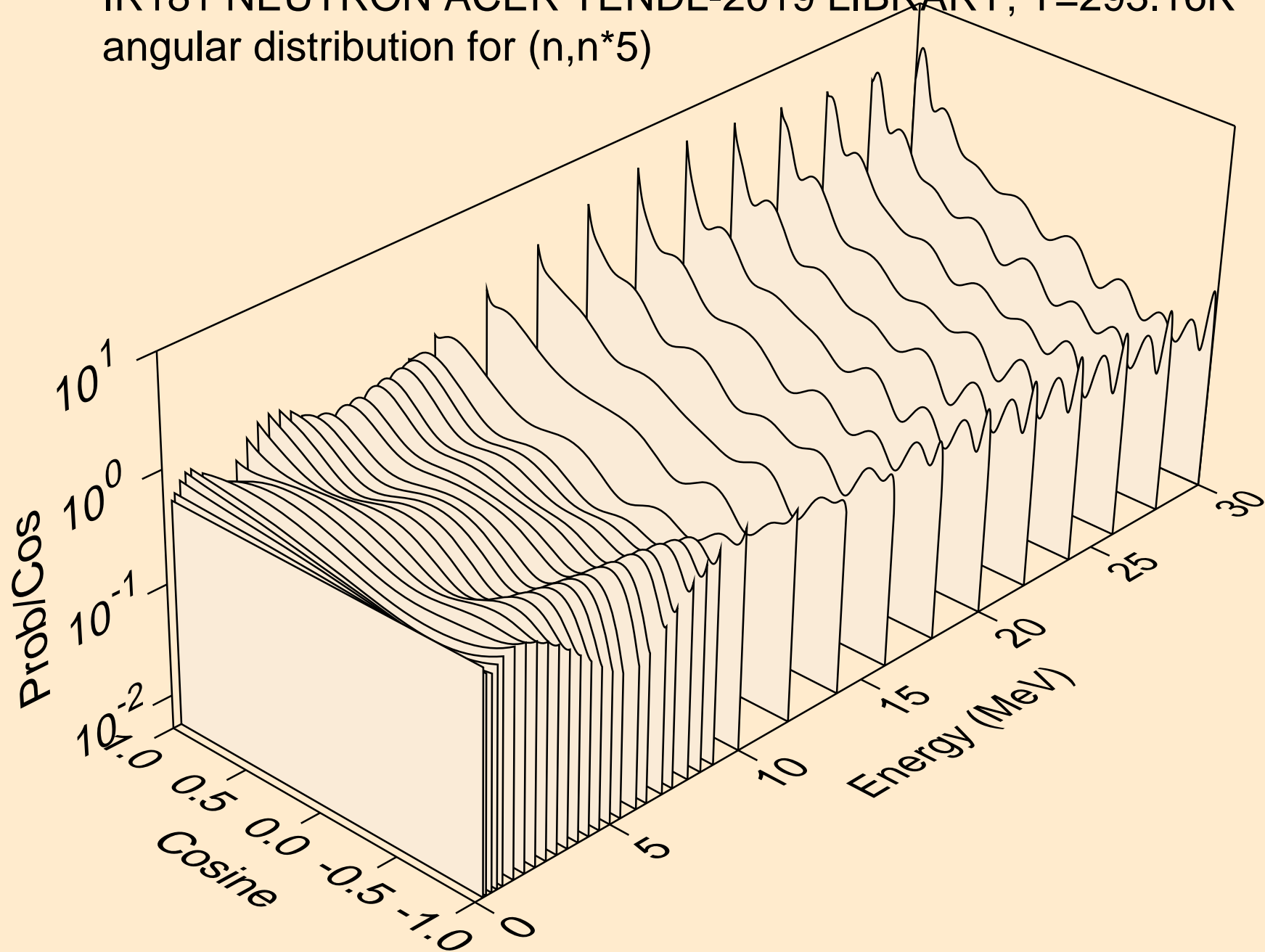
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angular distribution for (n,n\*3)



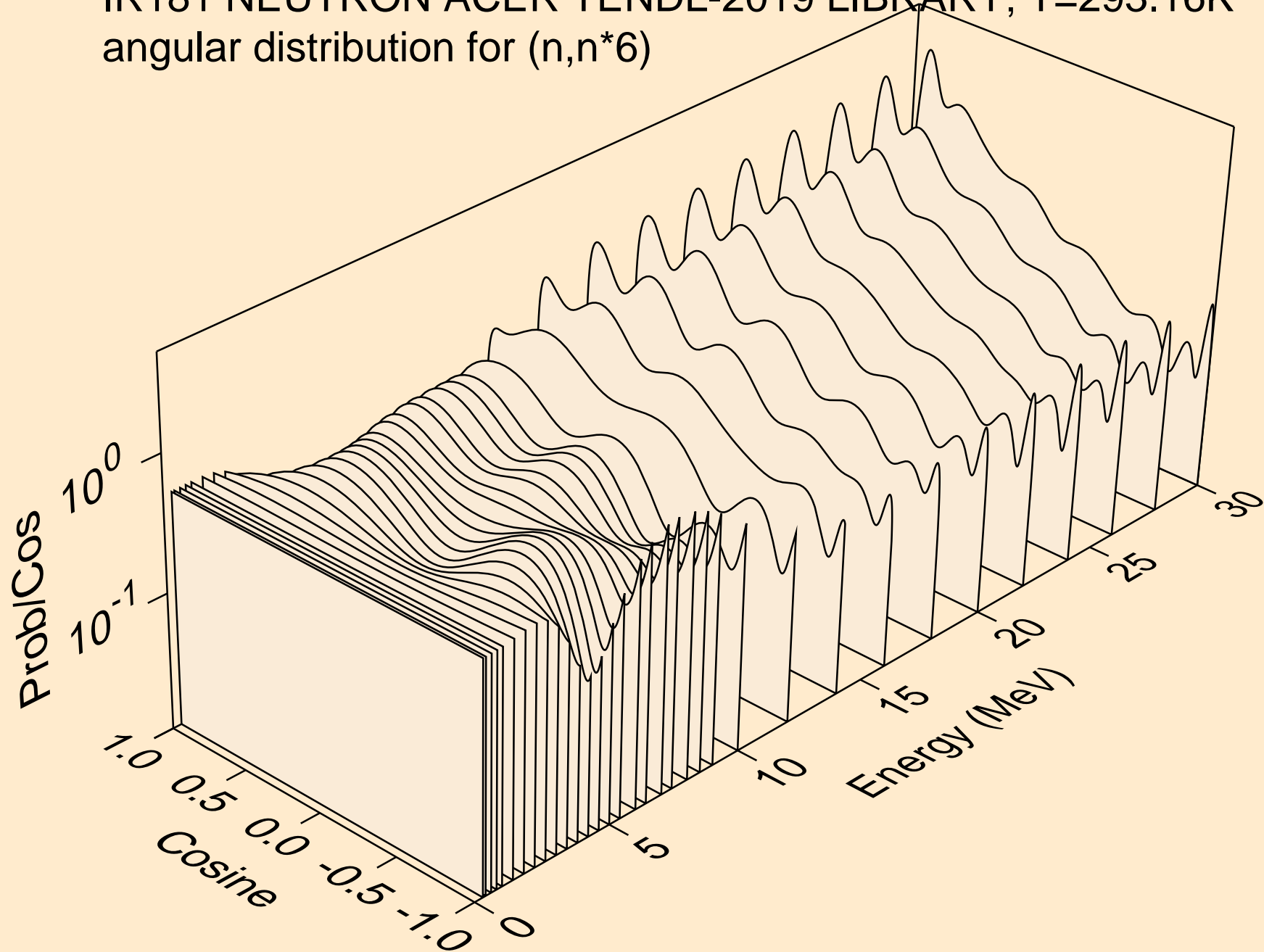
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angular distribution for (n,n\*4)



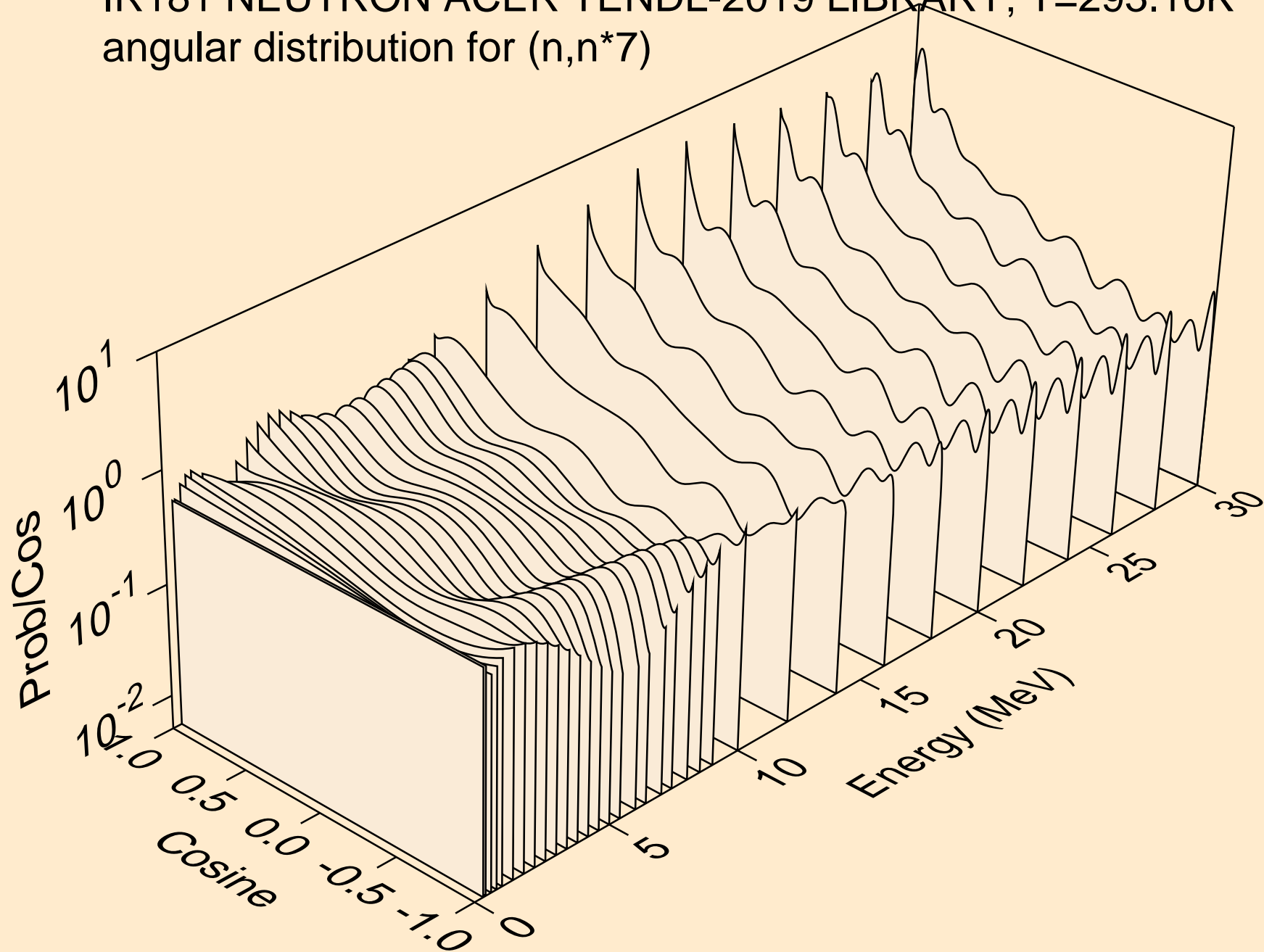
IR181 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*5)



IR181 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*6)

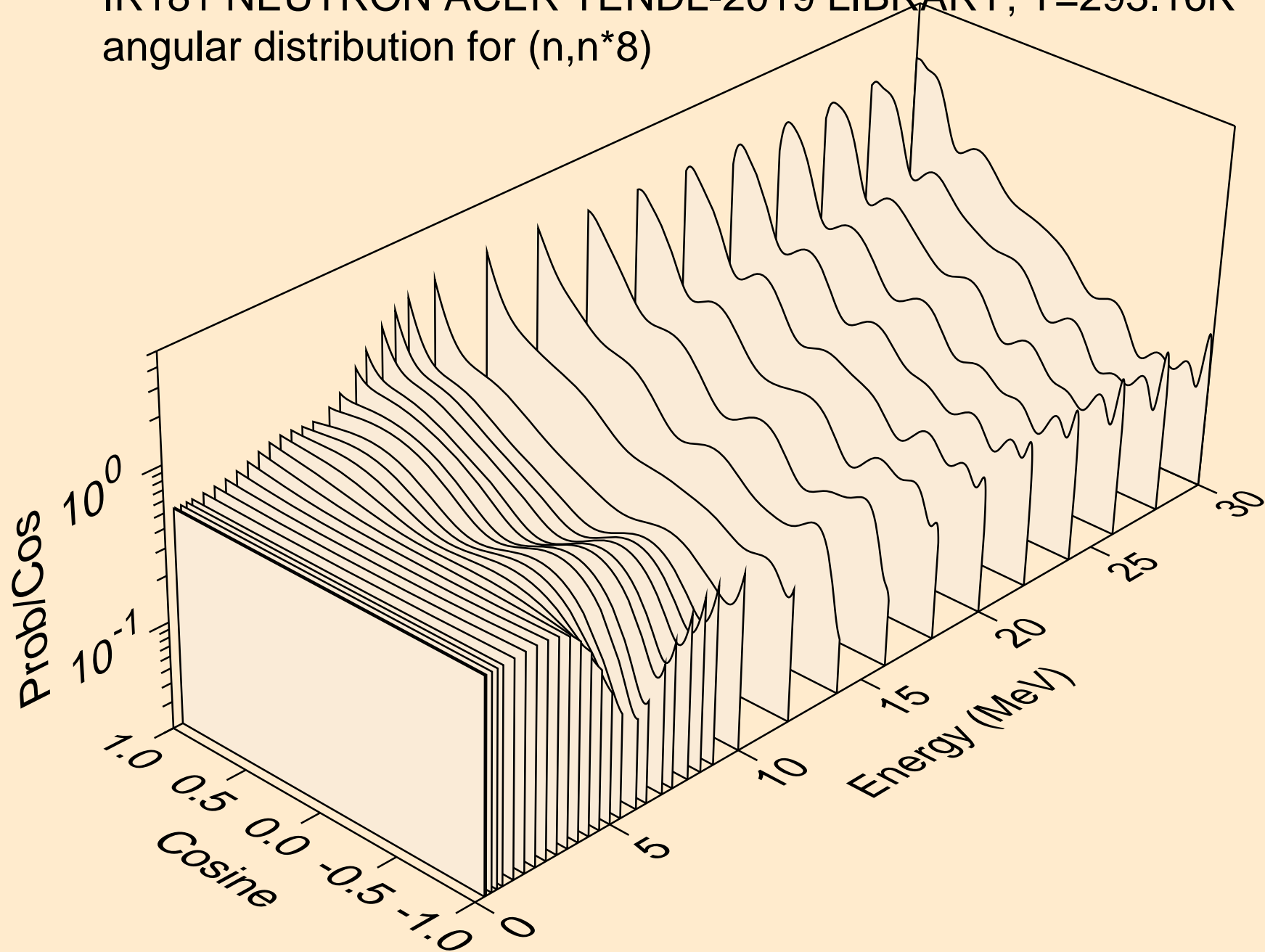


IR181 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*7)

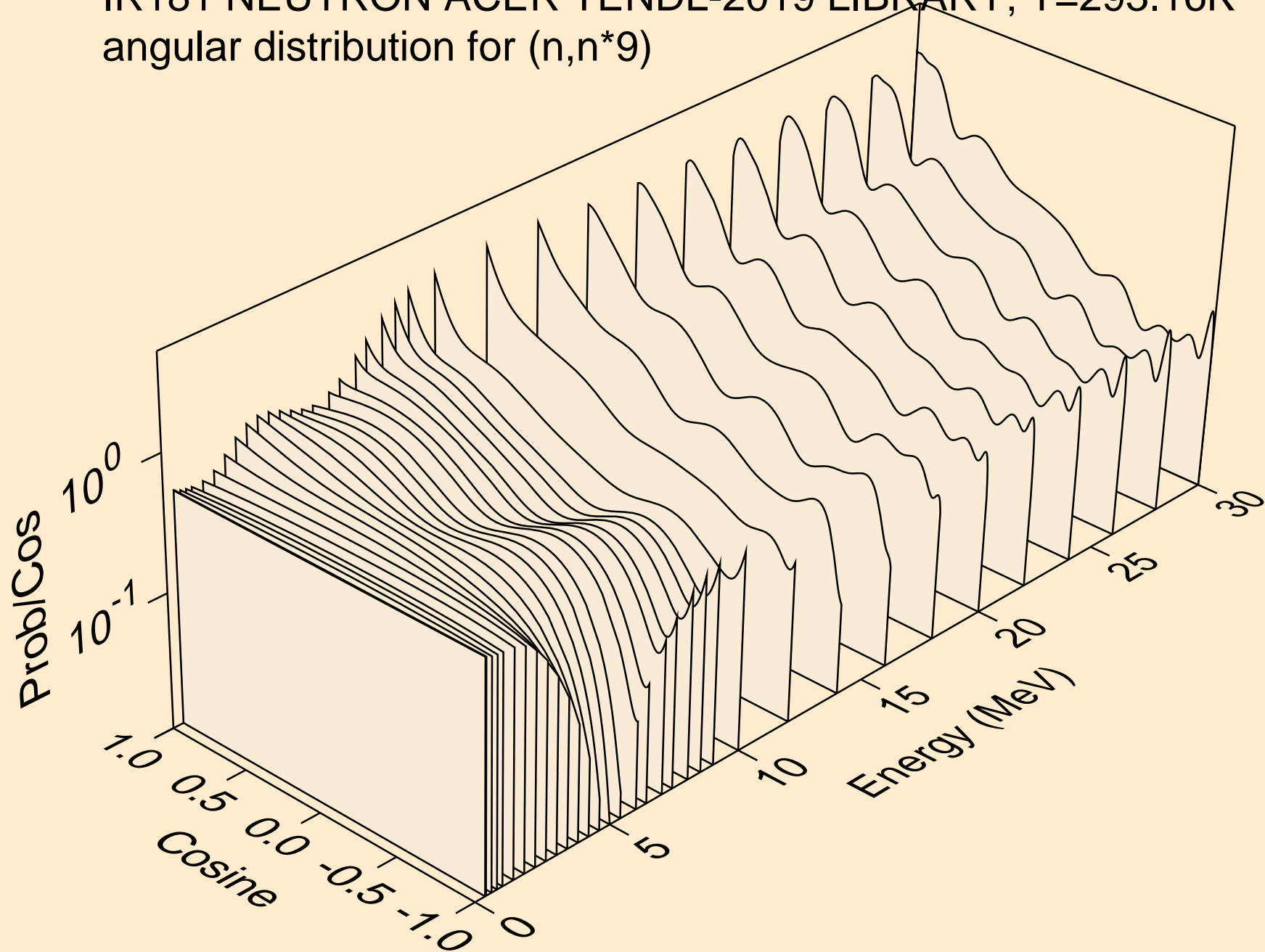




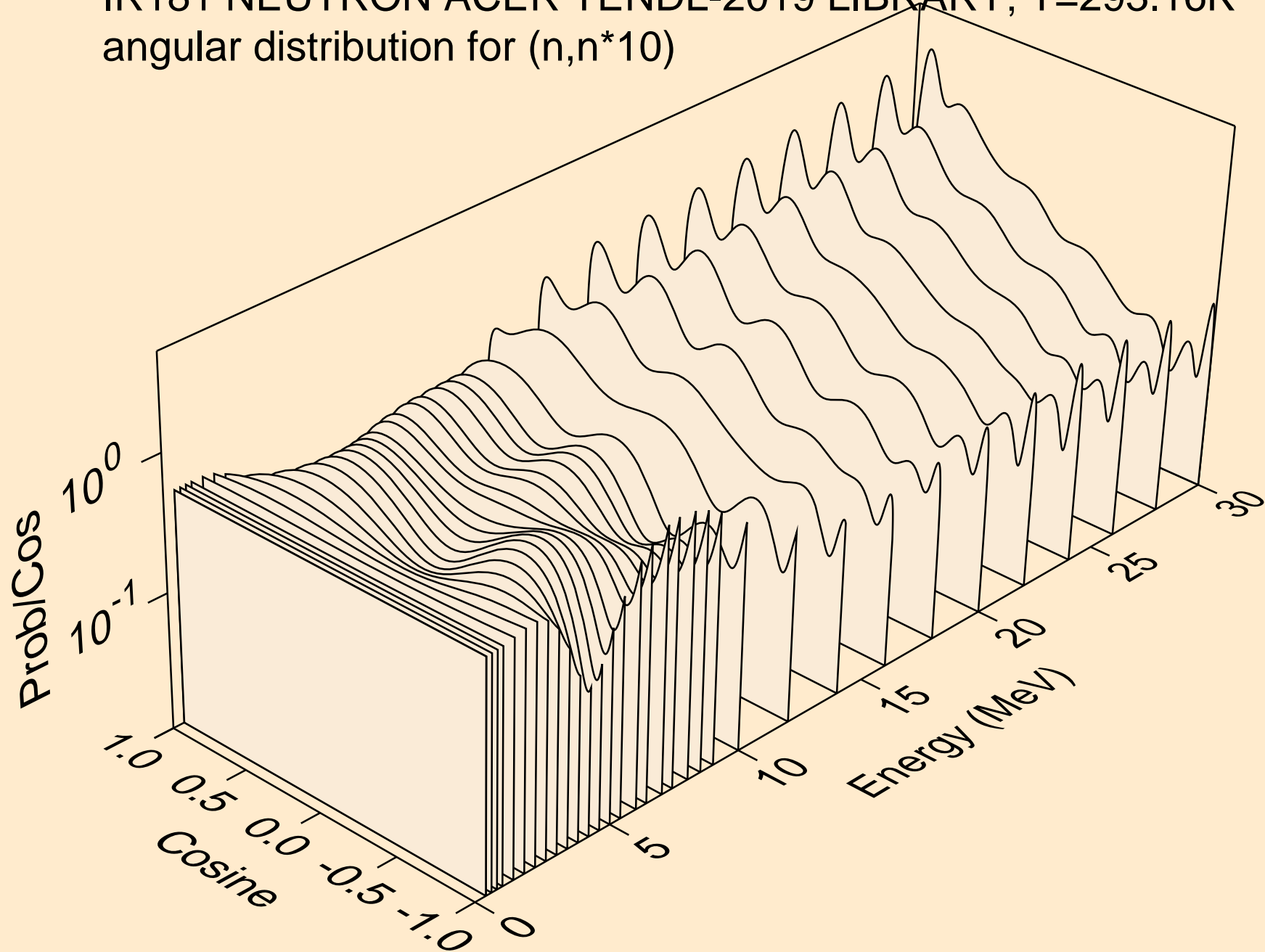
IR181 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*8)



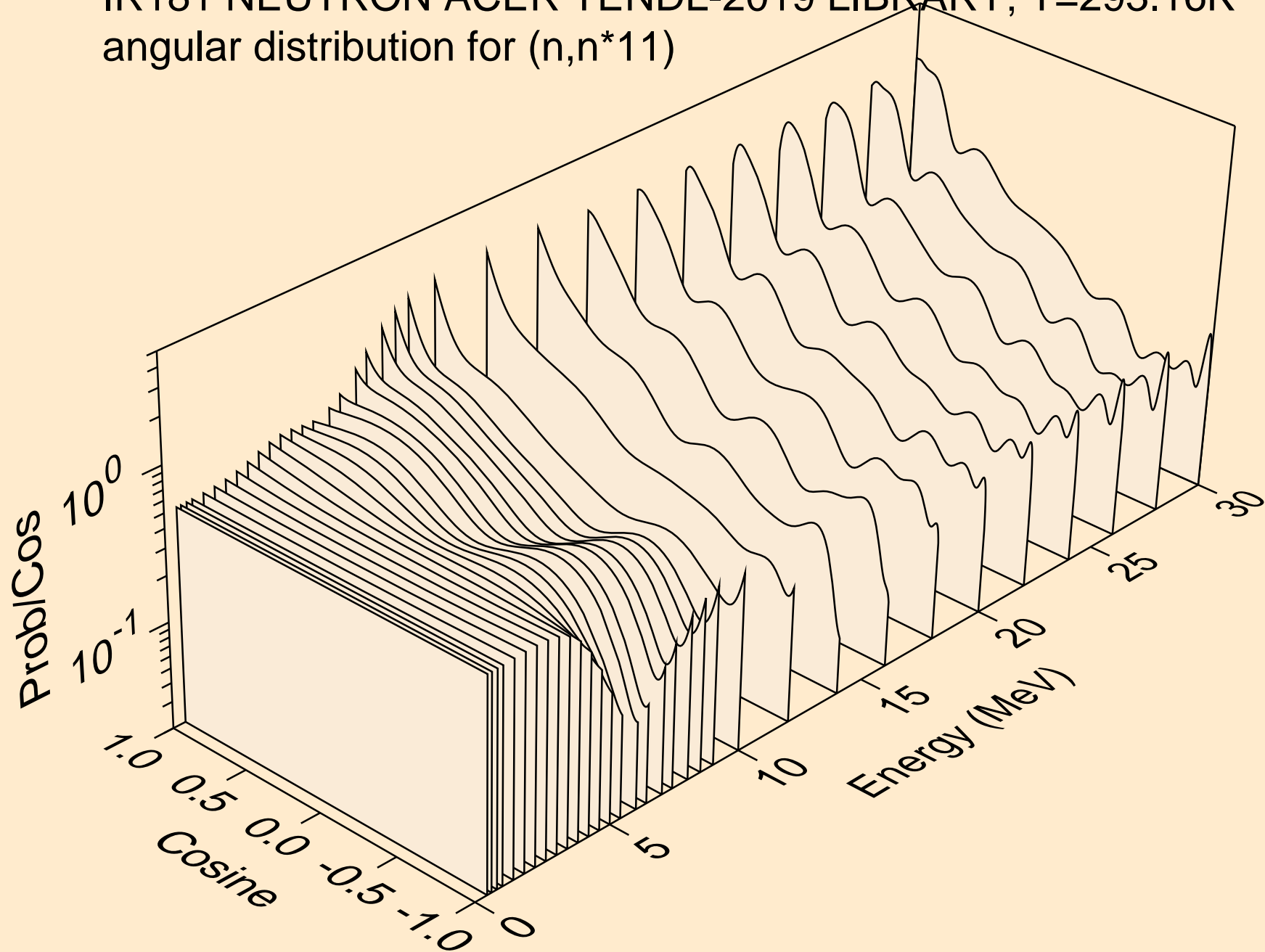
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angular distribution for (n,n\*9)



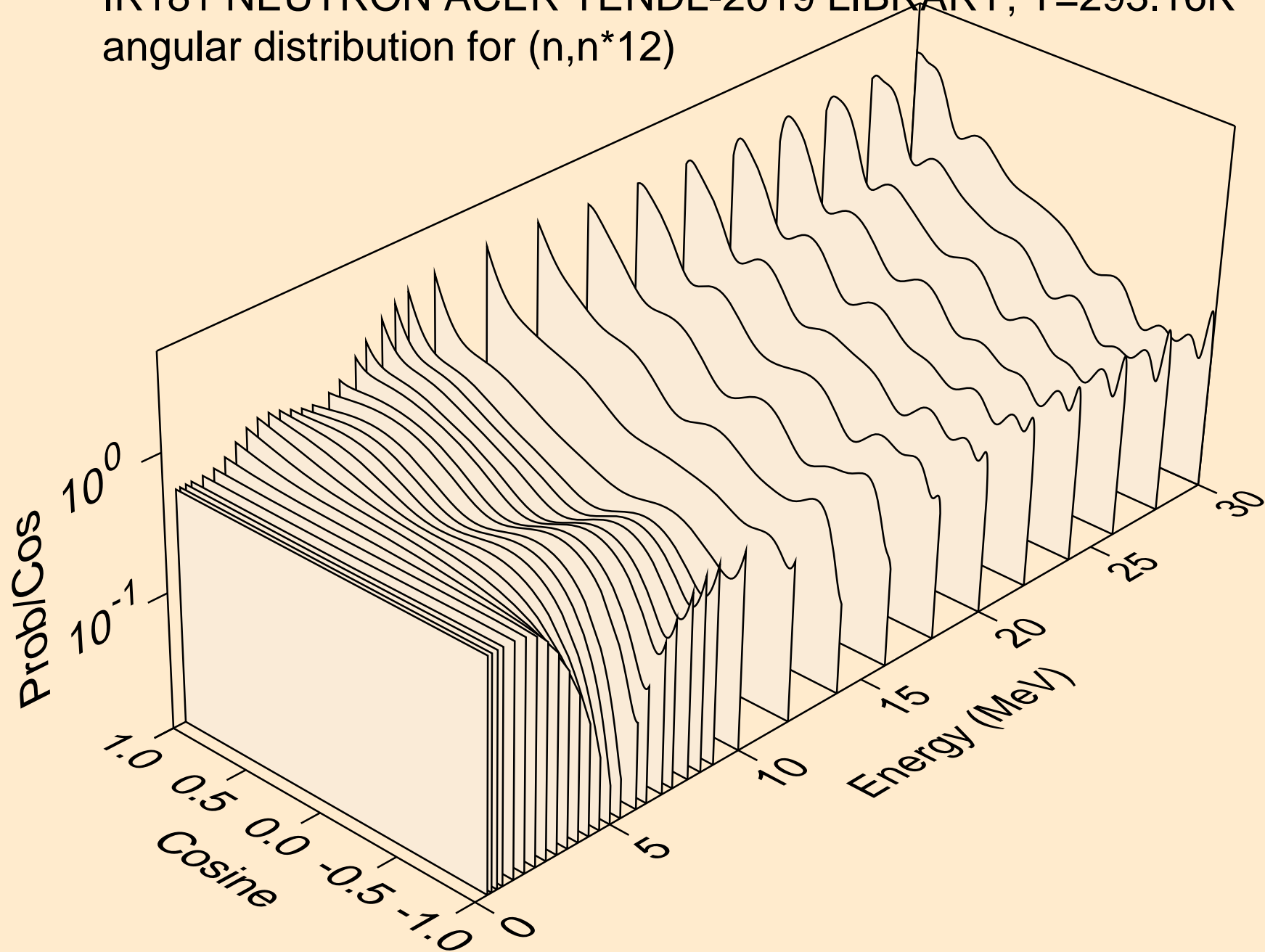
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angular distribution for (n,n\*10)



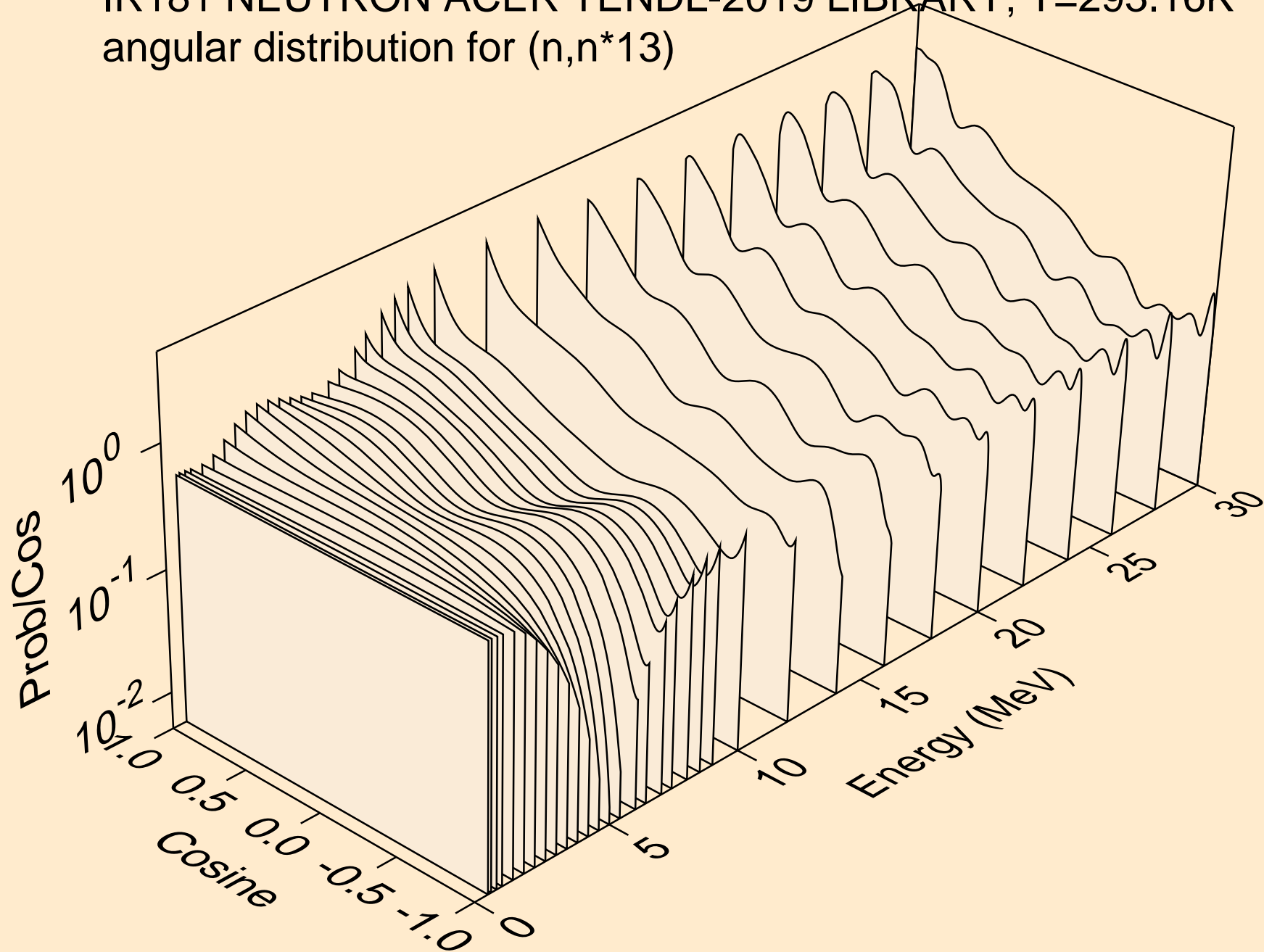
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angular distribution for (n,n\*11)



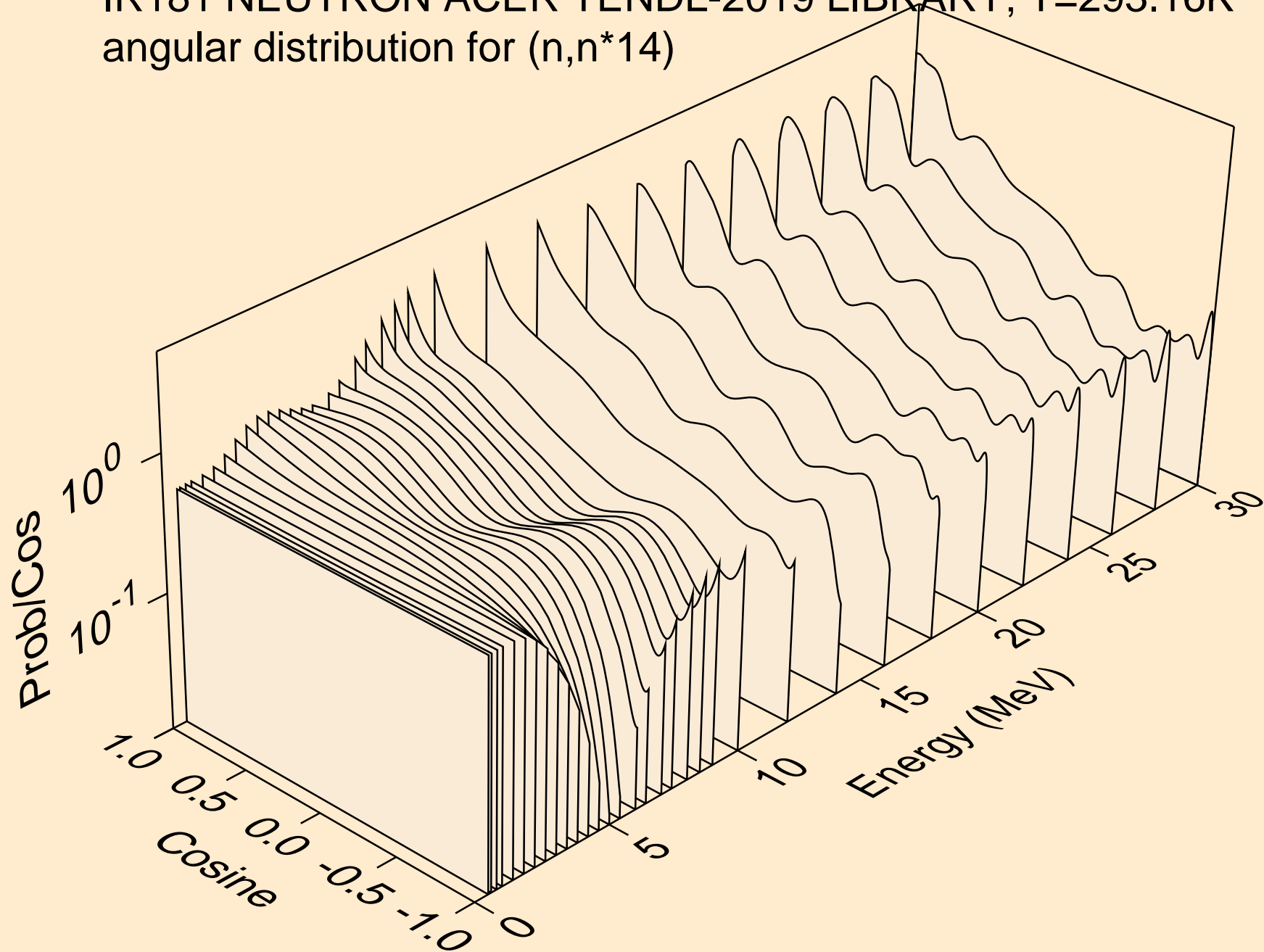
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angular distribution for (n,n\*12)



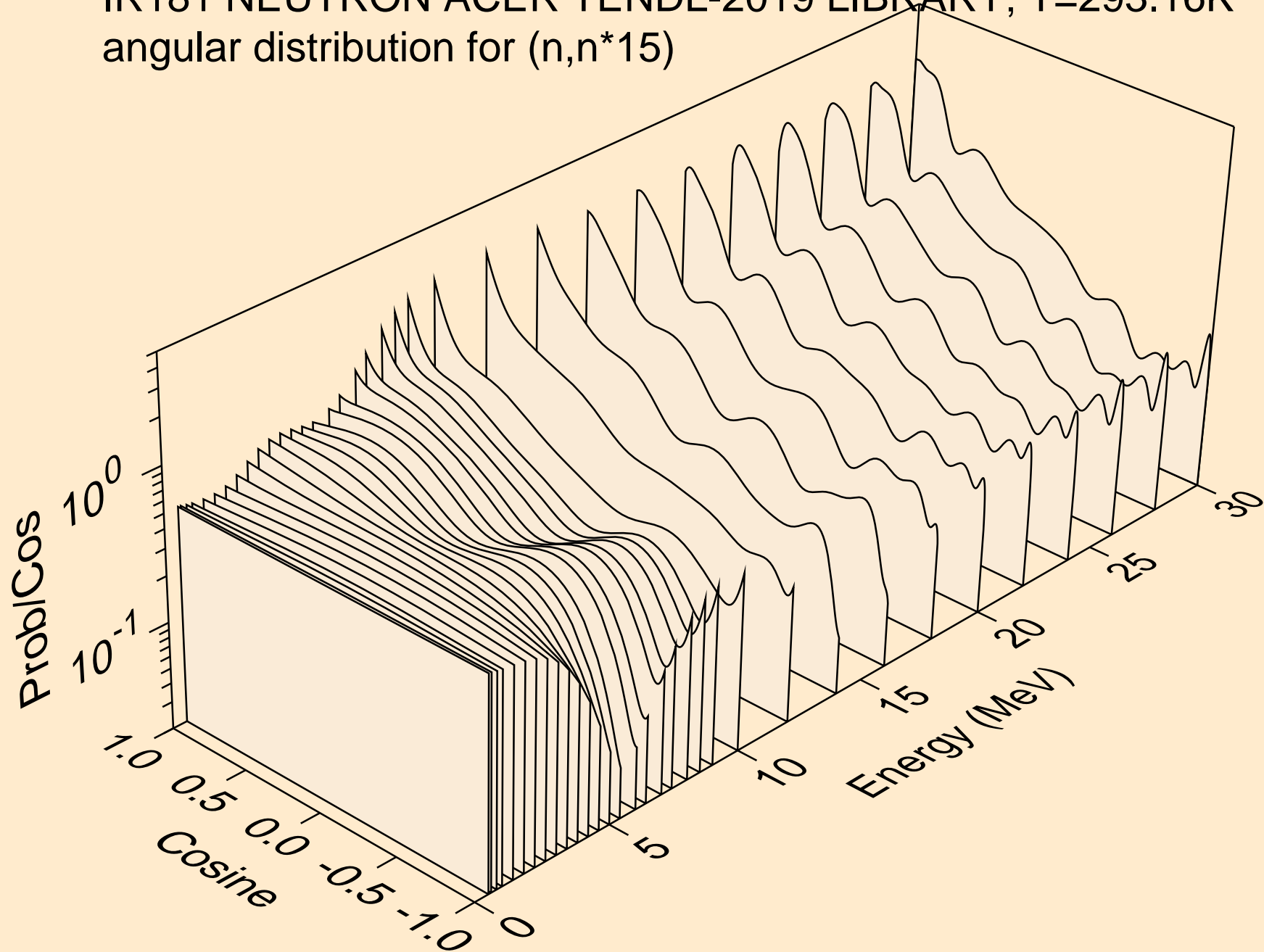
IR181 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*13)



IR181 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*14)

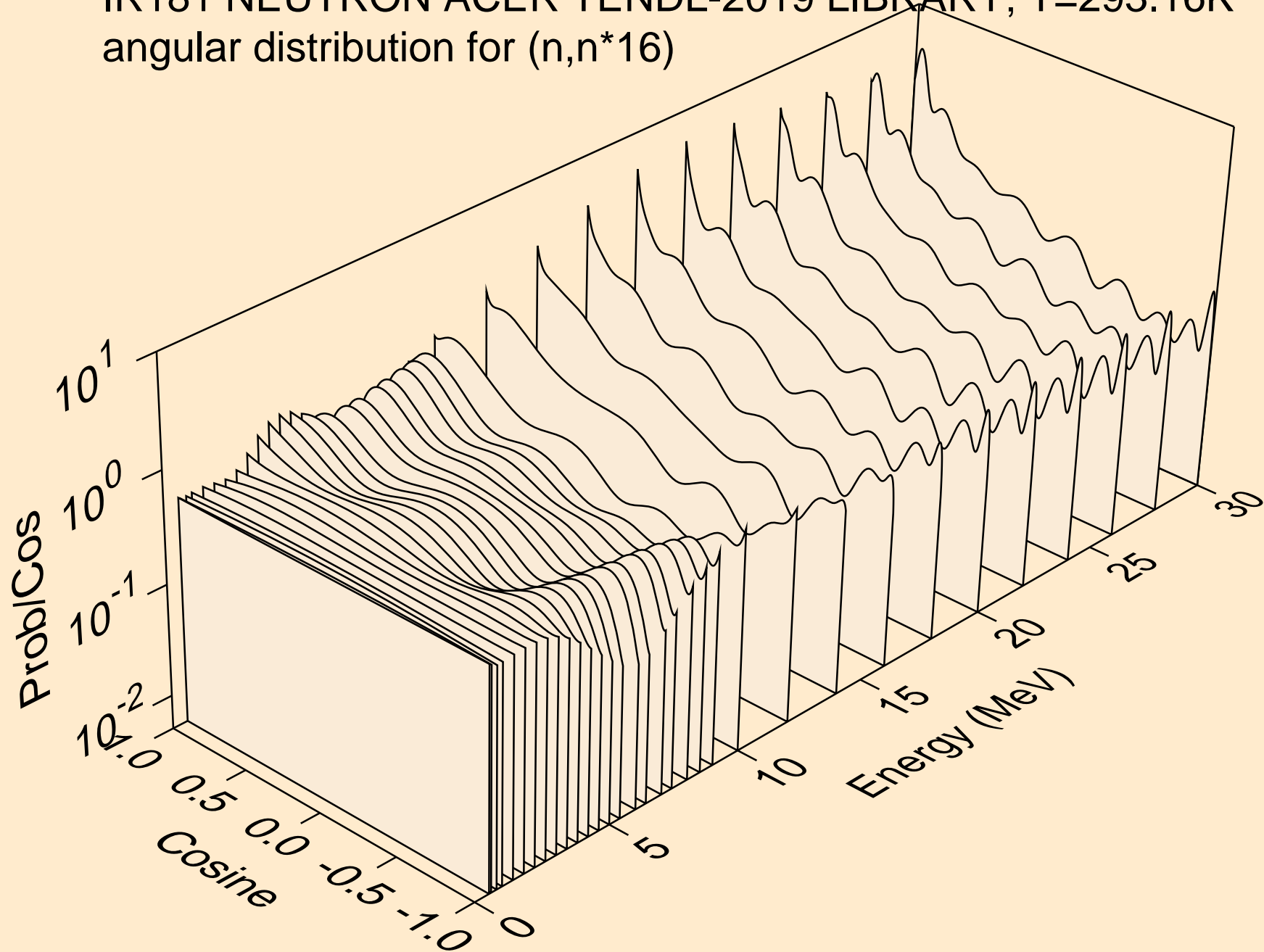


IR181 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*15)

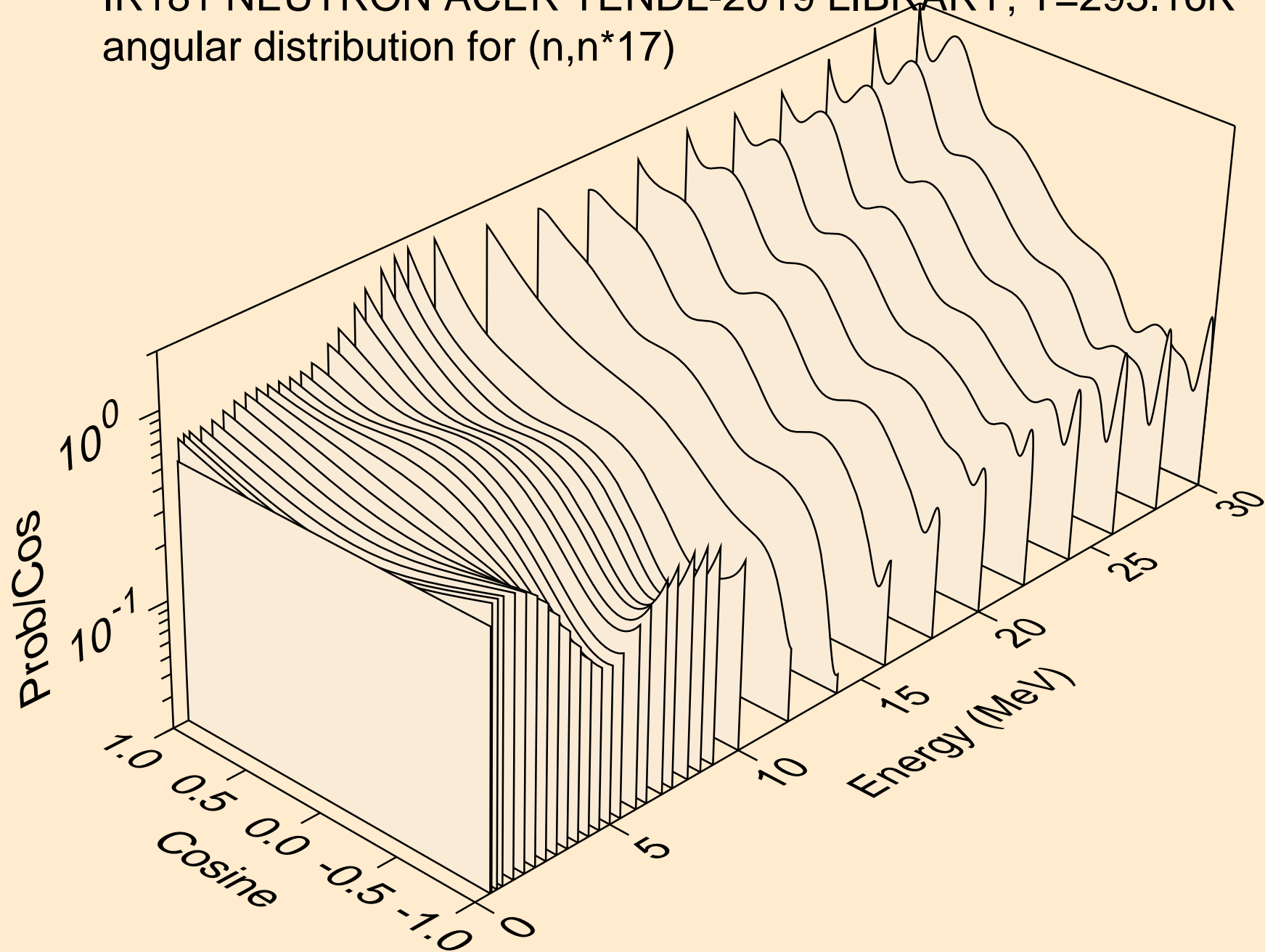




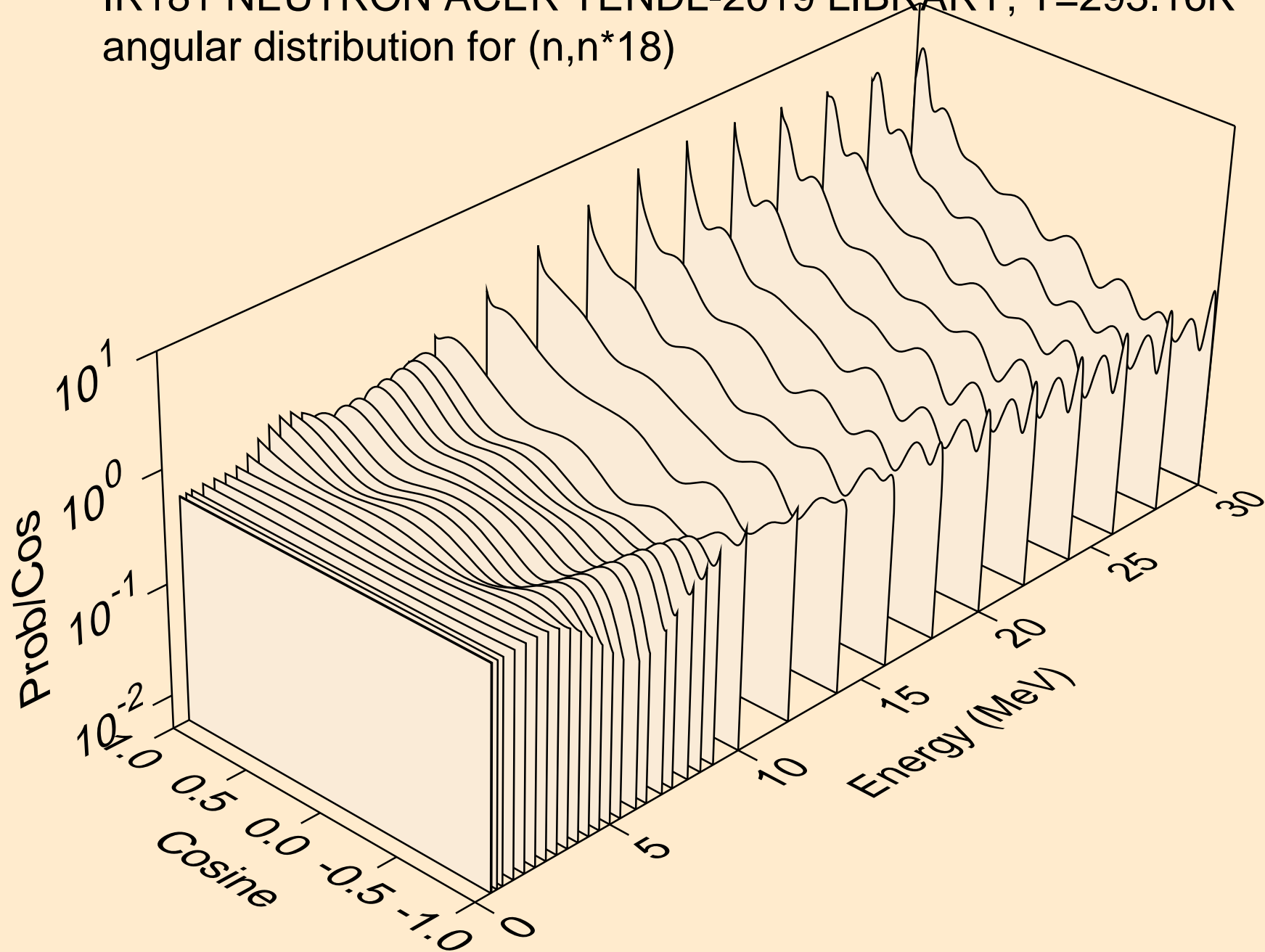
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angular distribution for (n,n\*16)



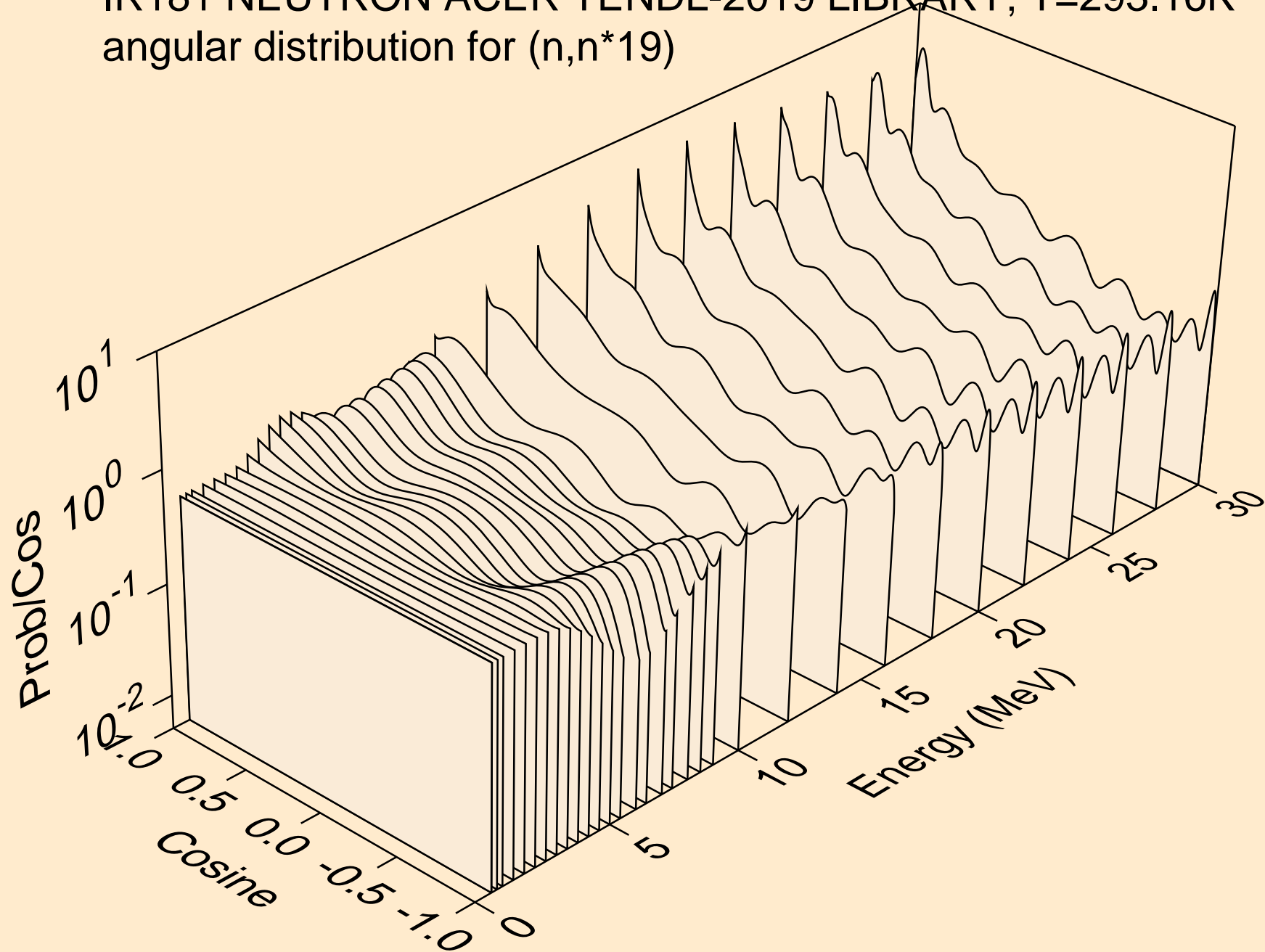
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angular distribution for (n,n\*17)



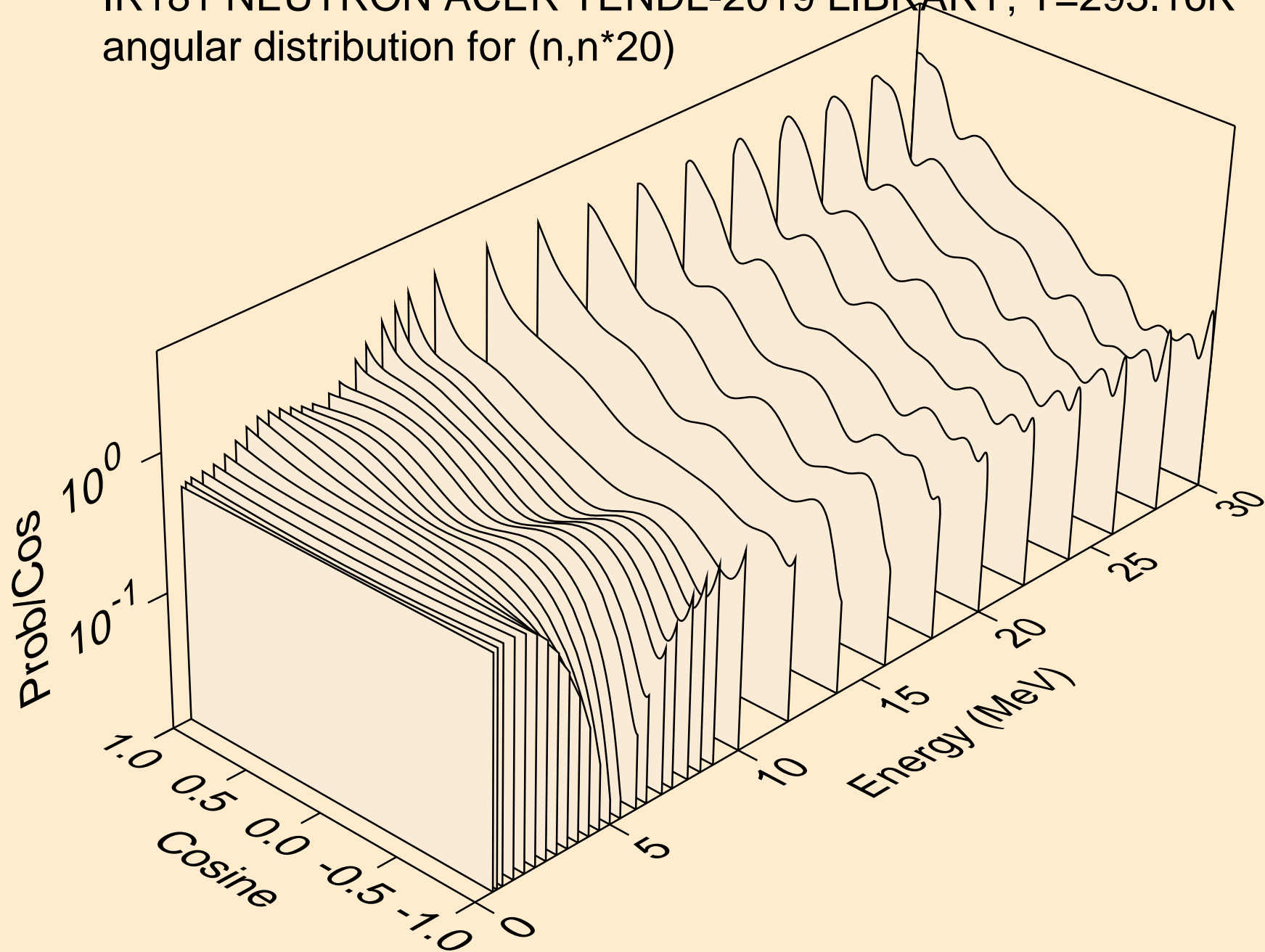
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angular distribution for (n,n\*18)



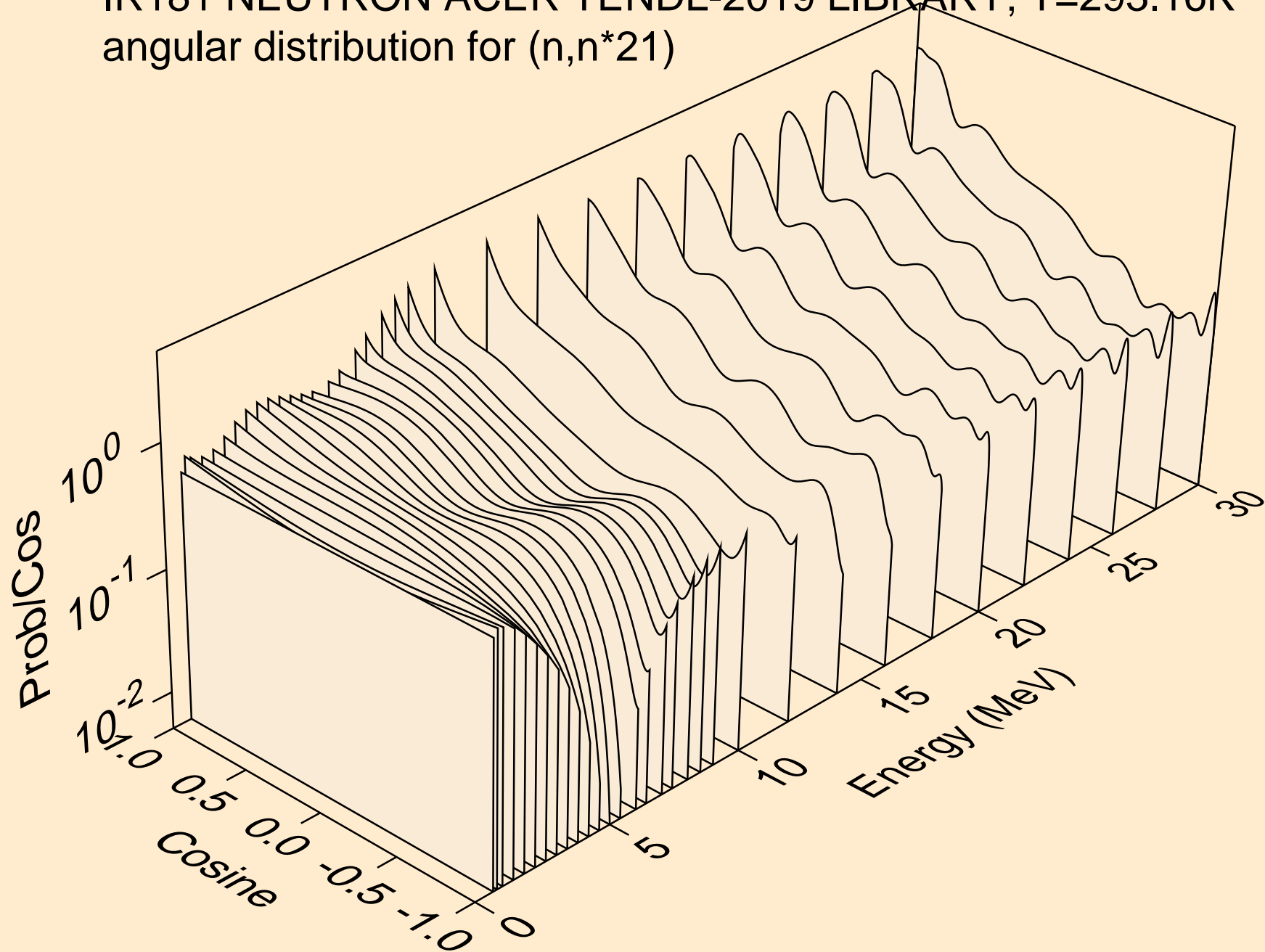
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angular distribution for (n,n\*19)



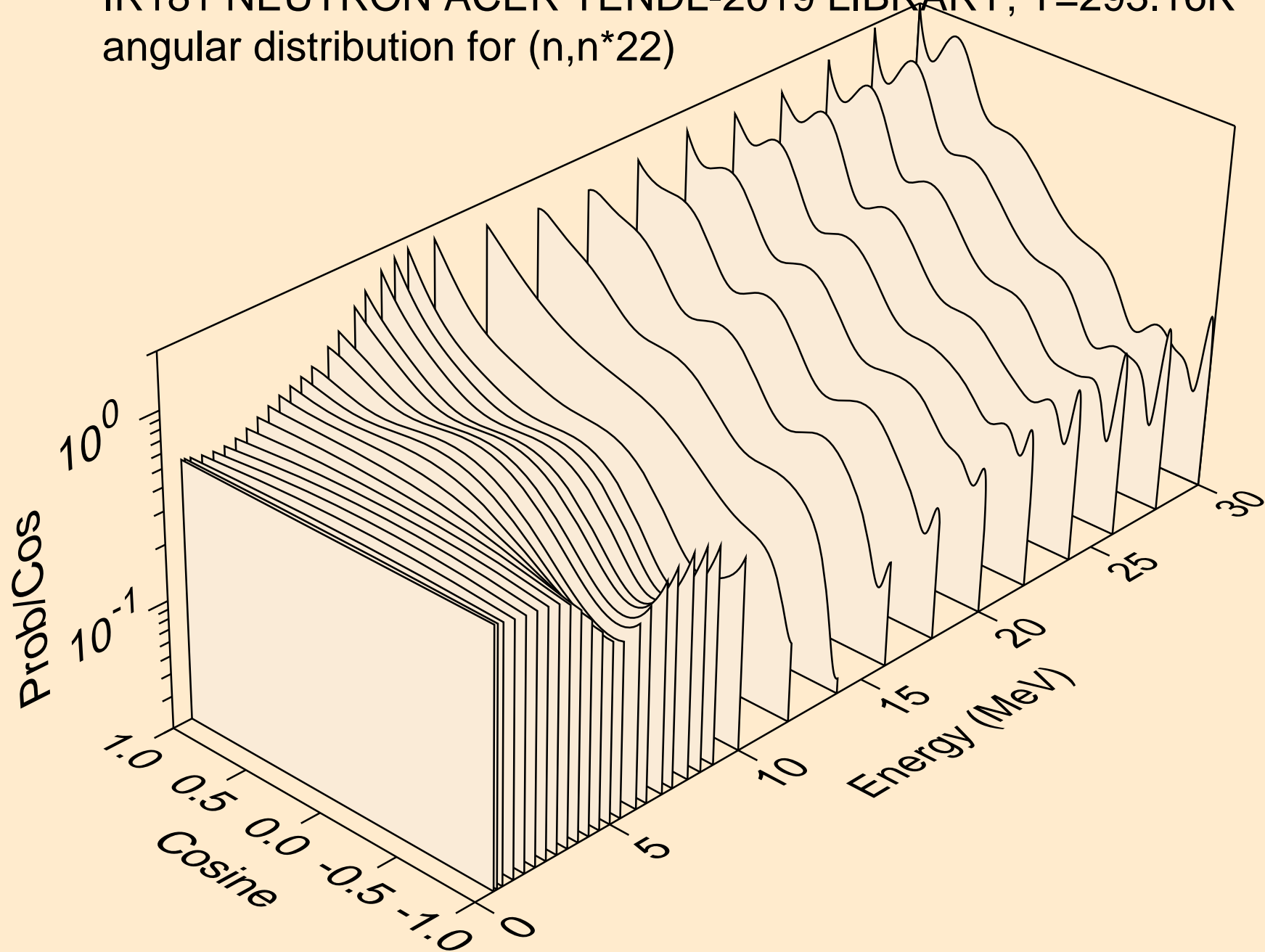
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angular distribution for (n,n\*20)



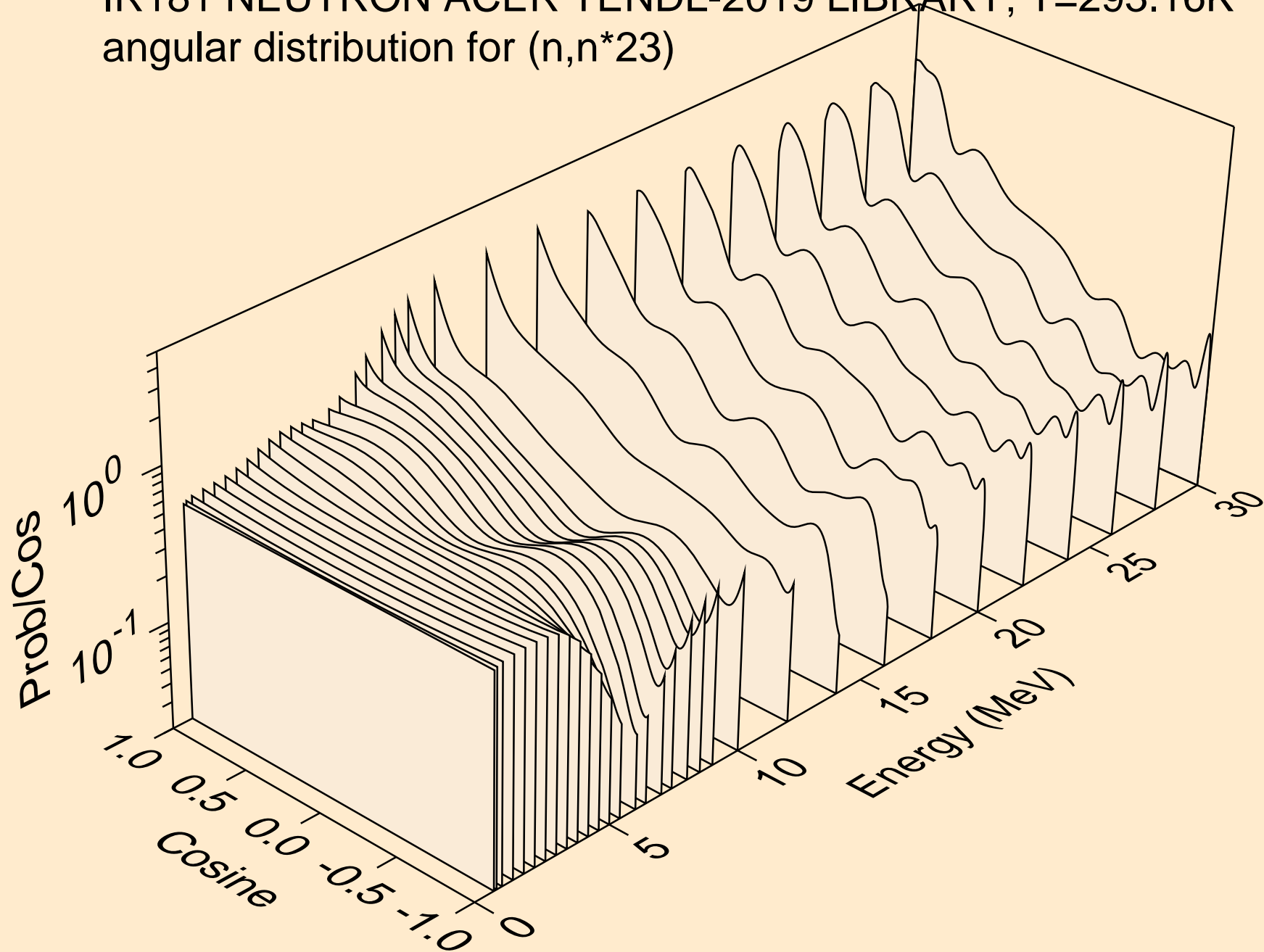
IR181 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*21)



IR181 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*22)

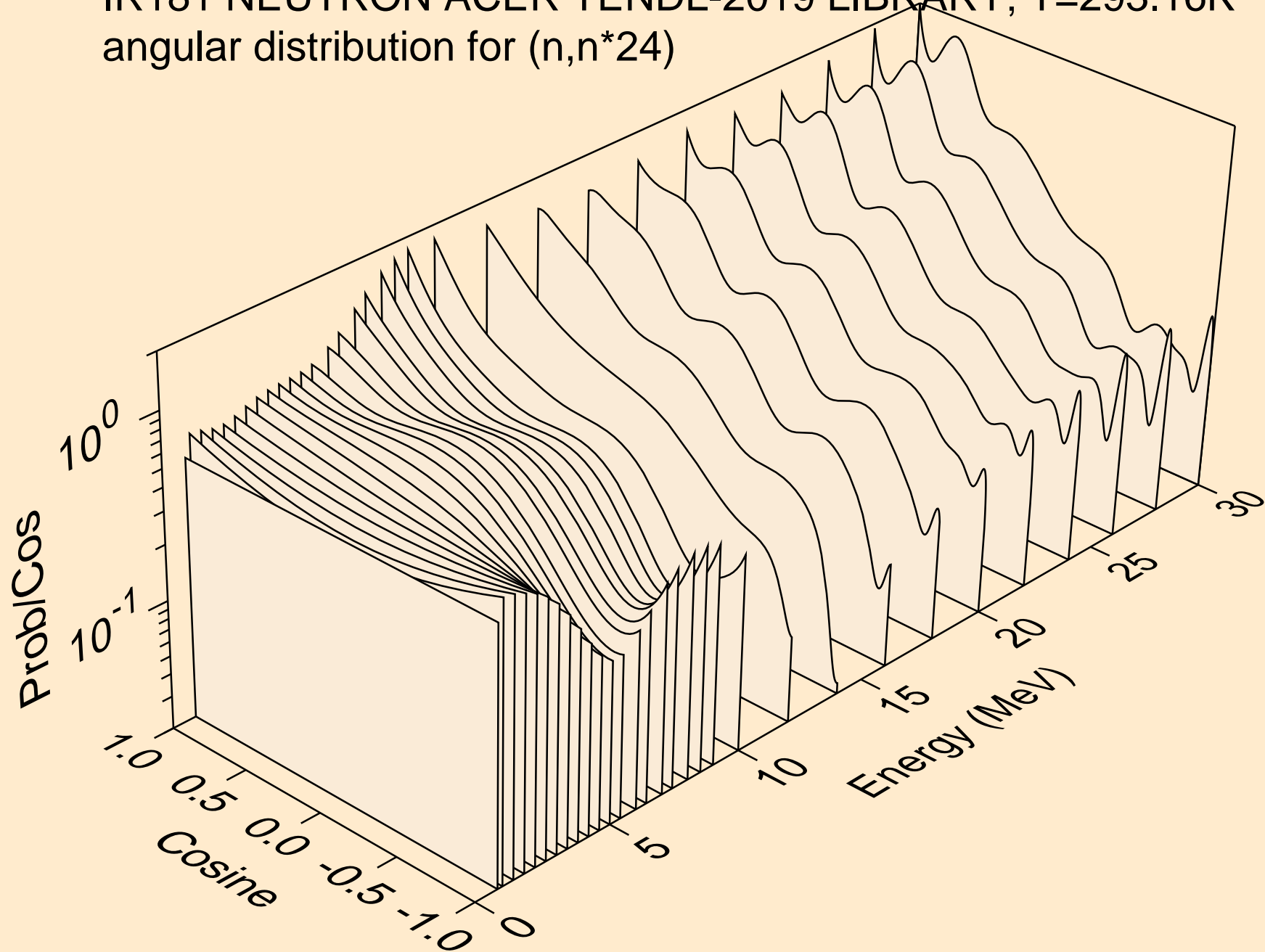


IR181 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*23)

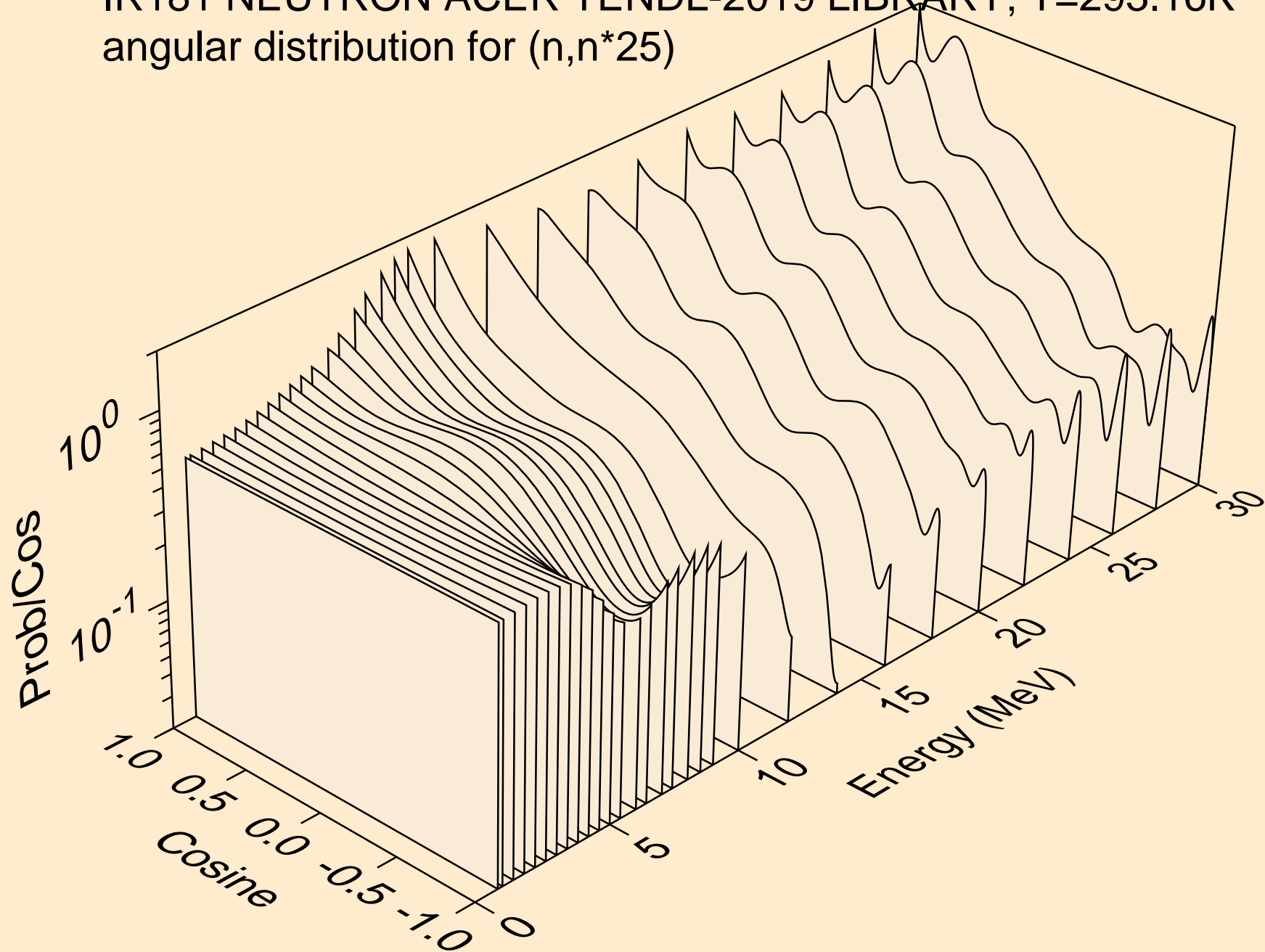




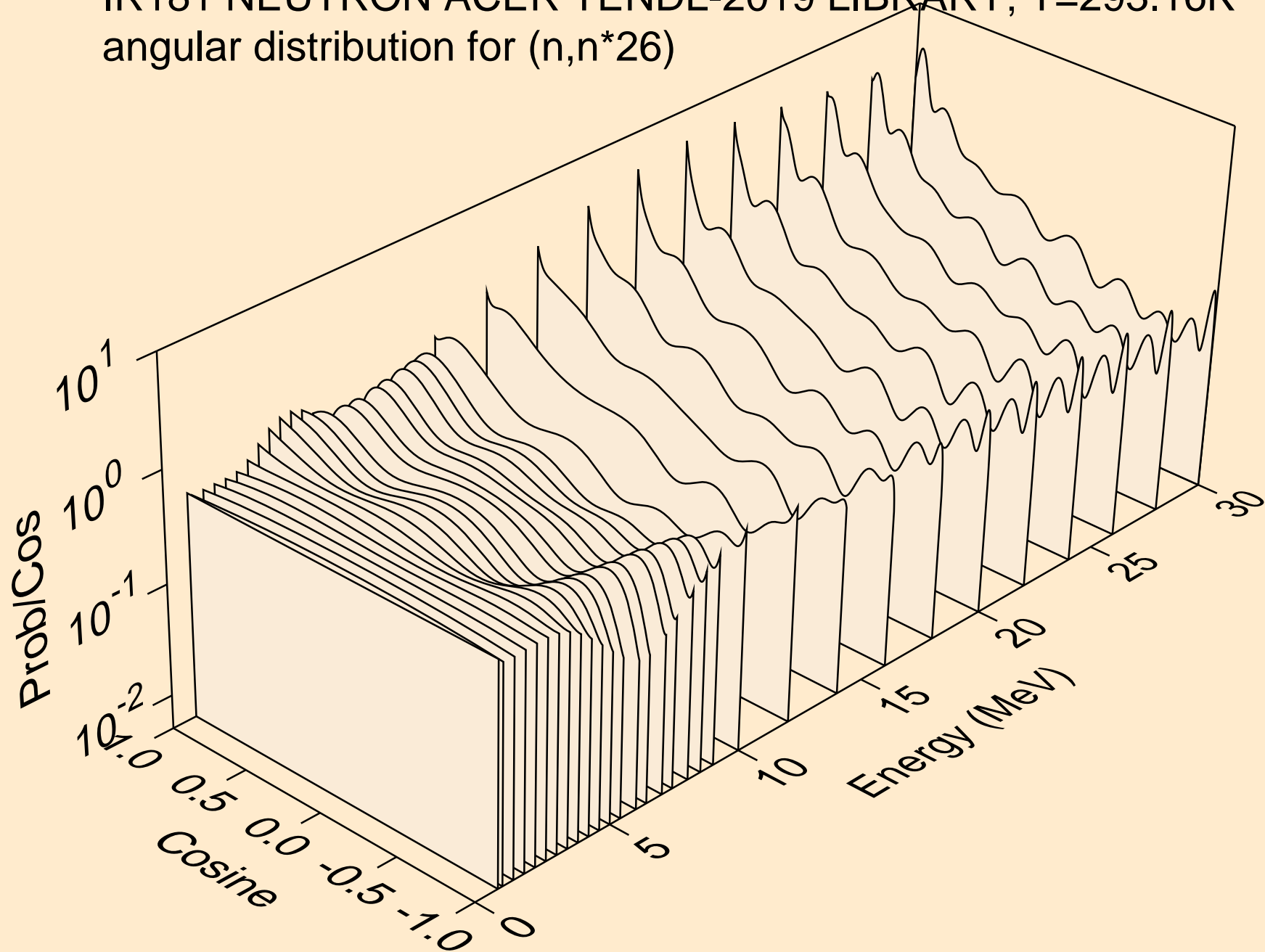
IR181 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*24)



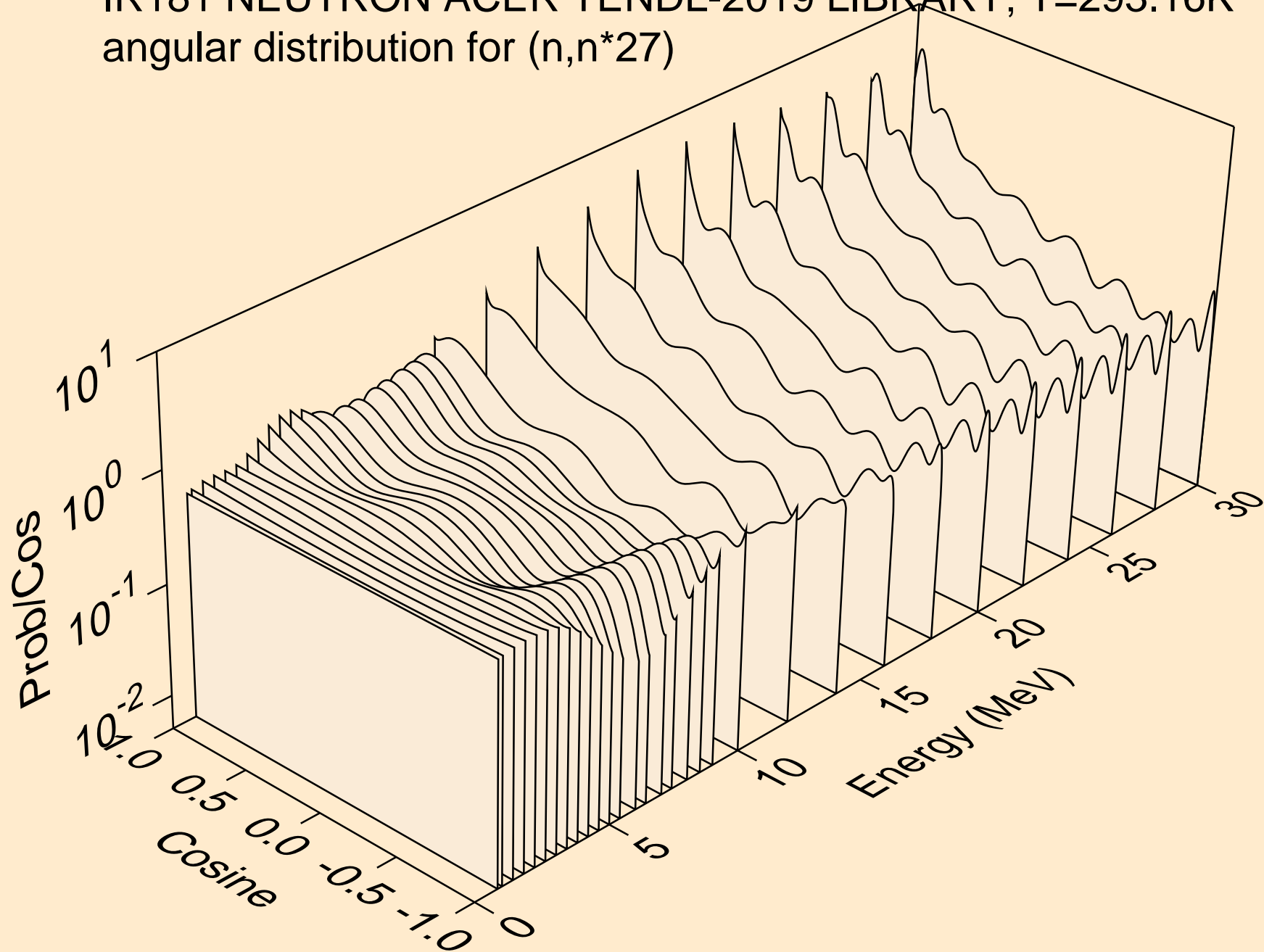
IR181 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*25)



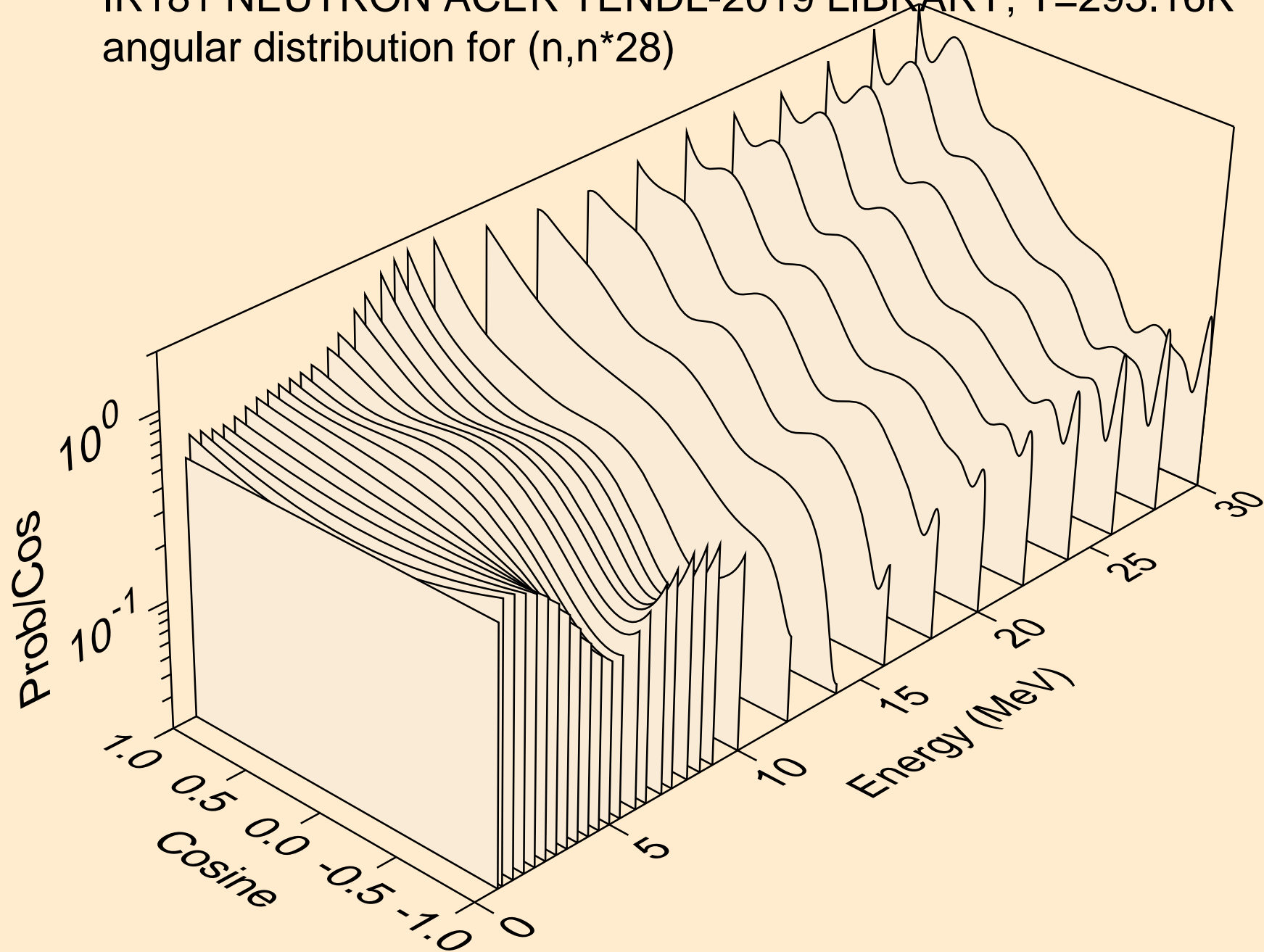
IR181 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*26)



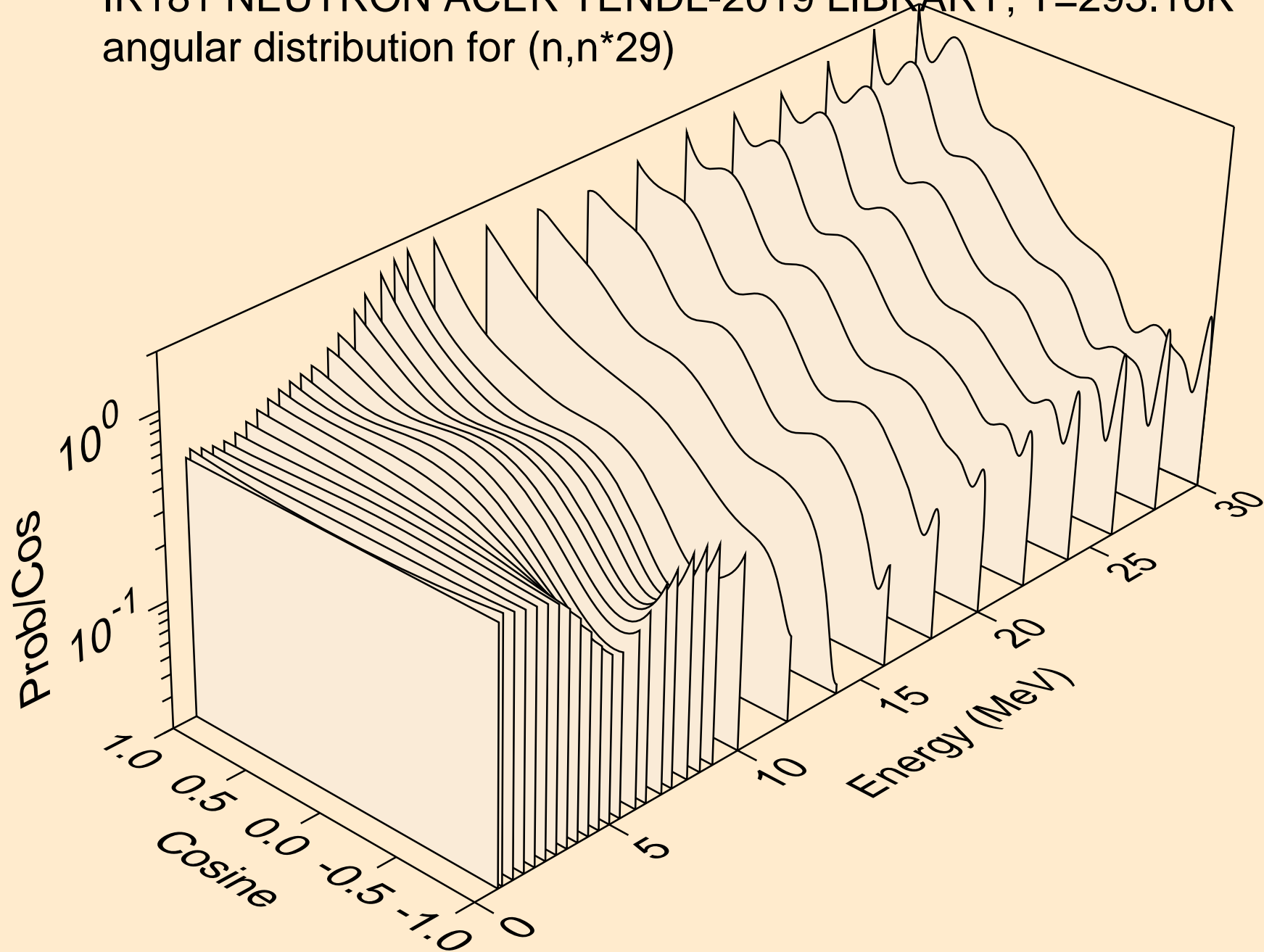
IR181 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*27)



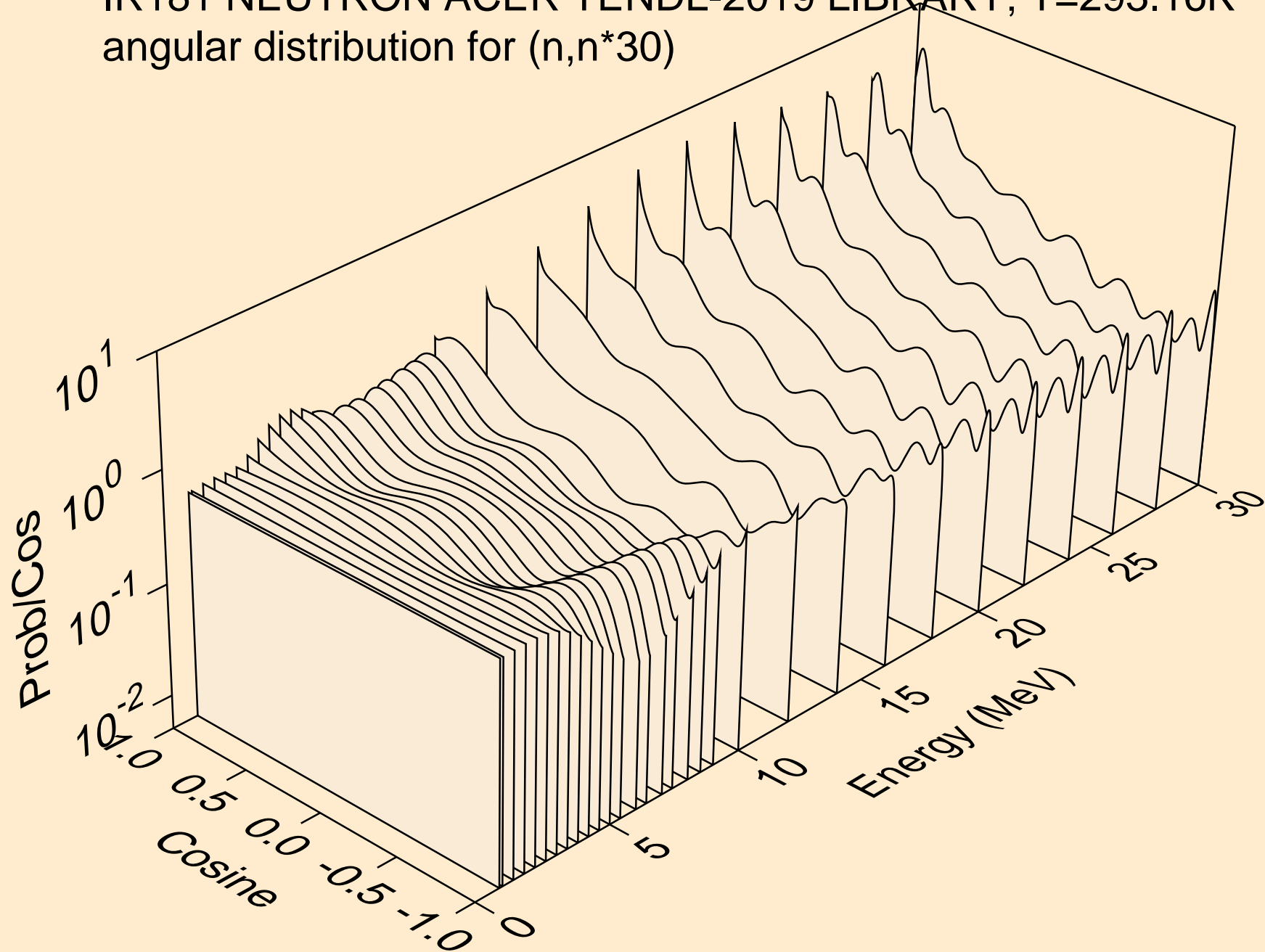
IR181 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*28)



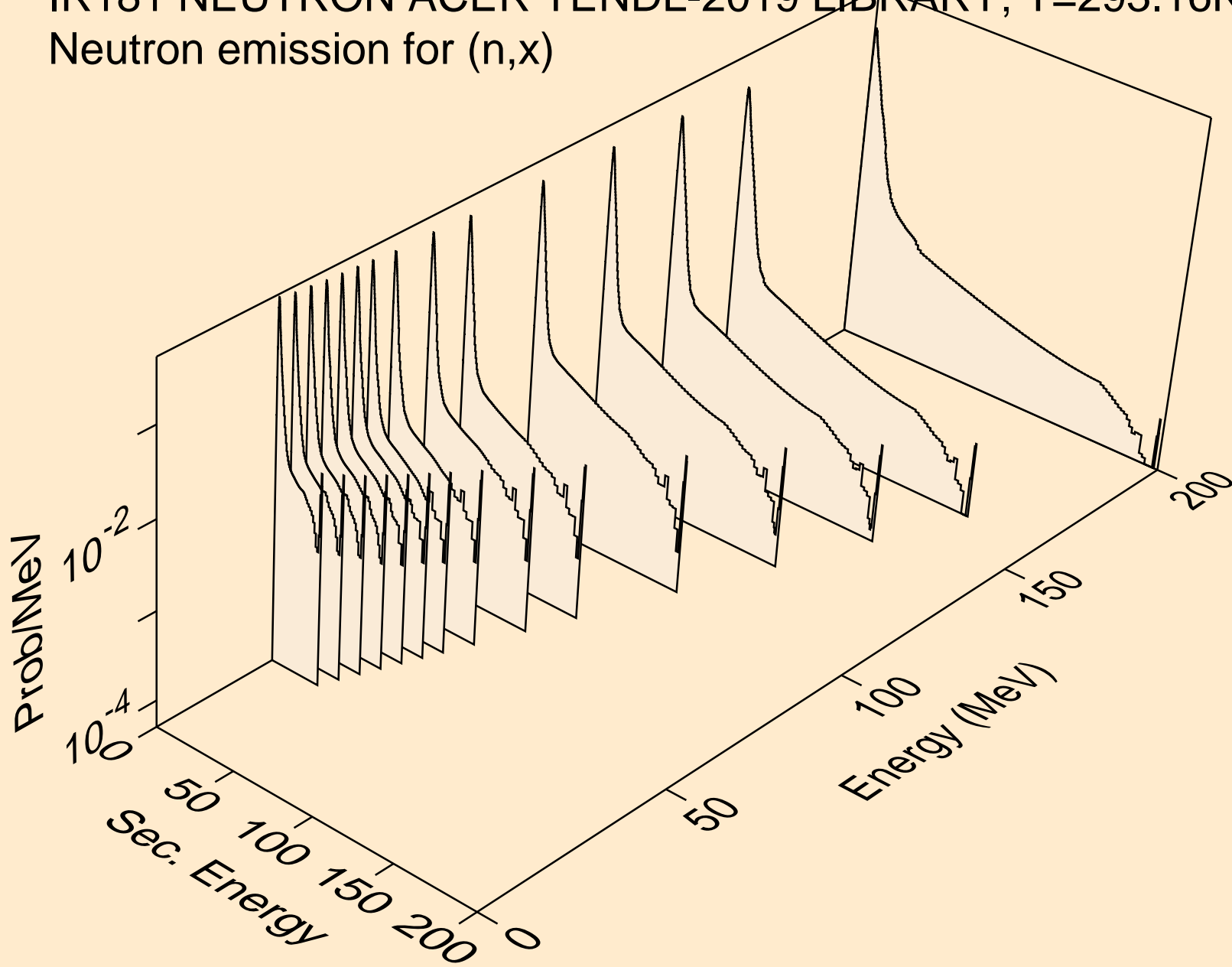
IR181 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*29)



IR181 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*30)

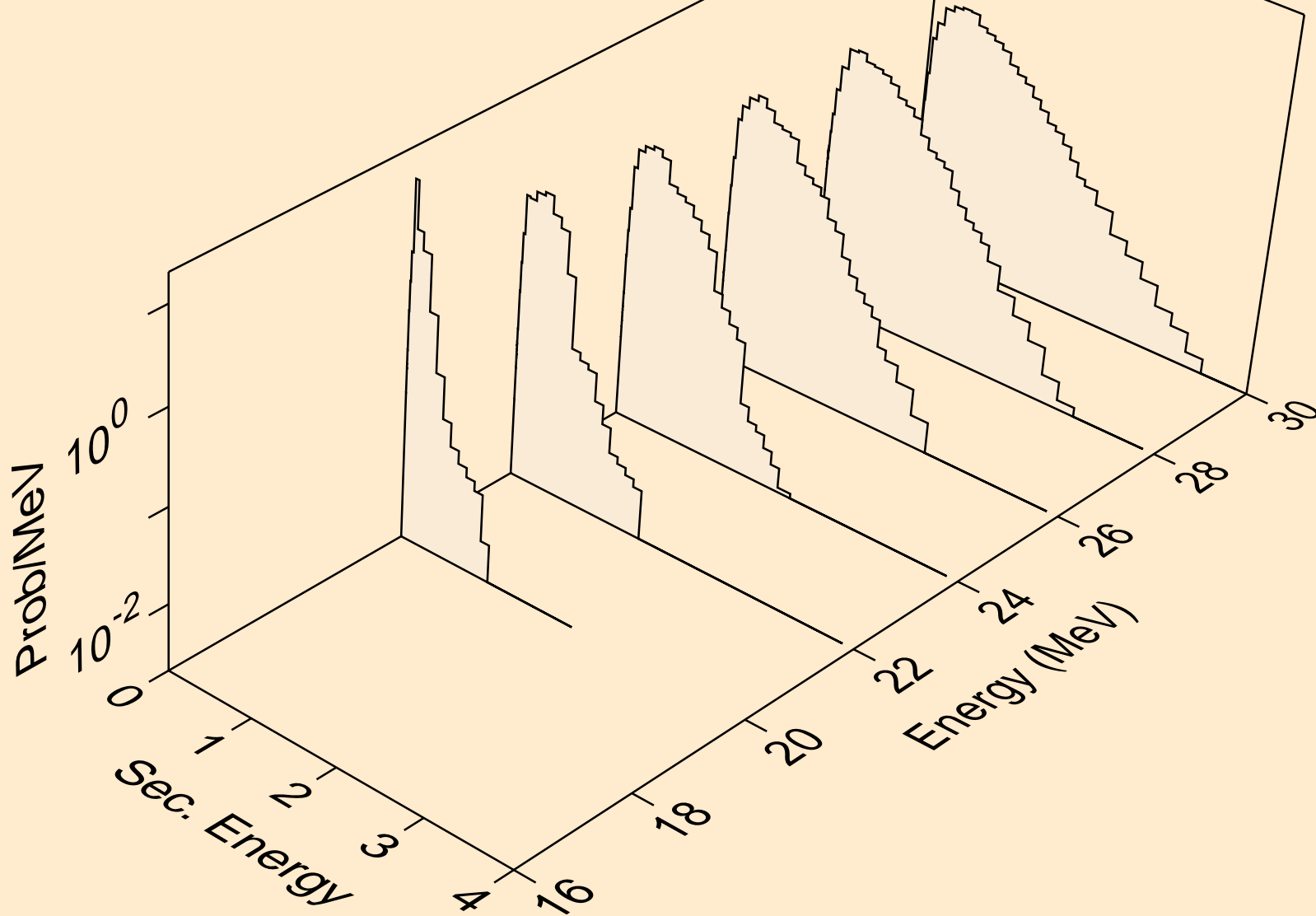


IR181 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,x)

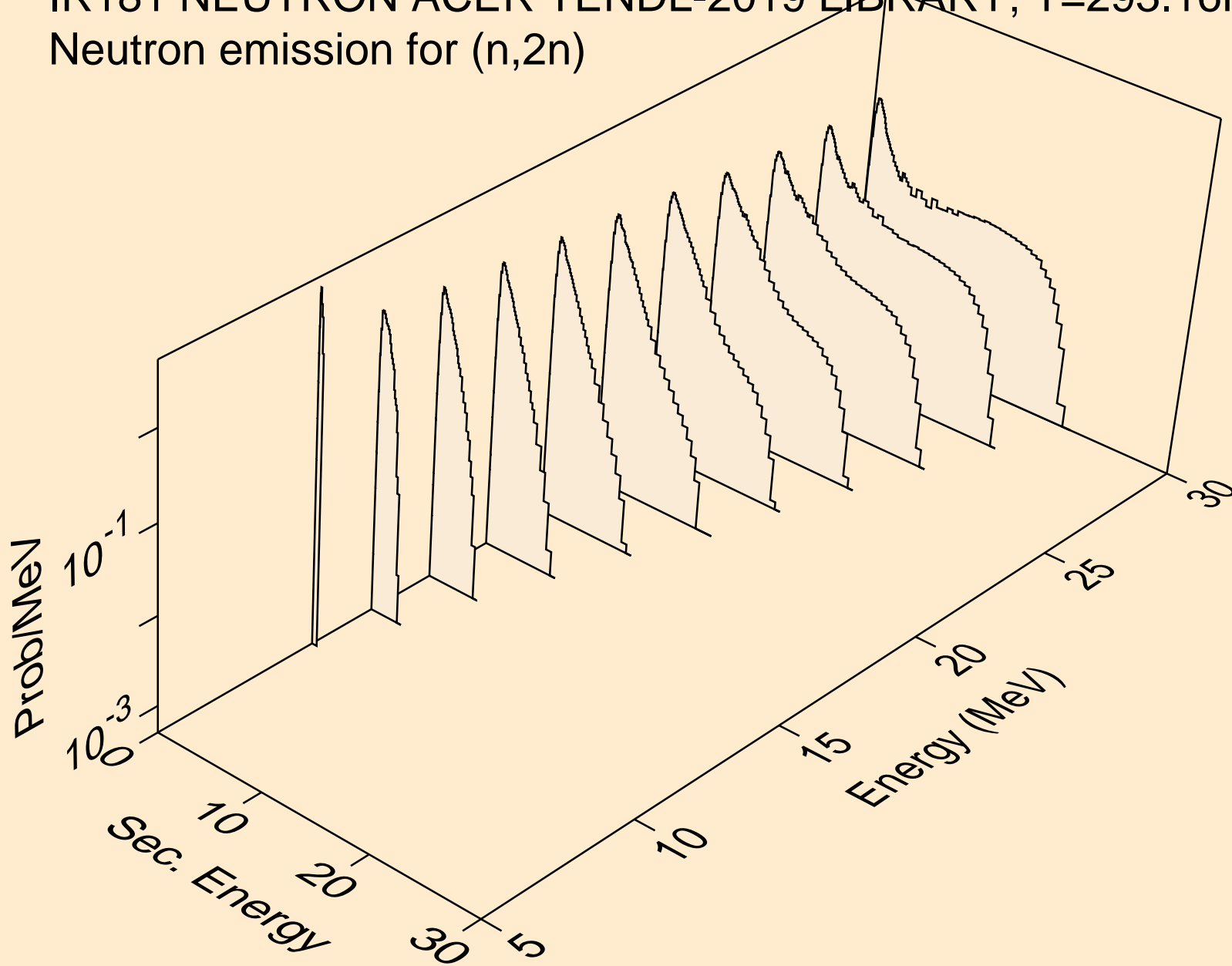




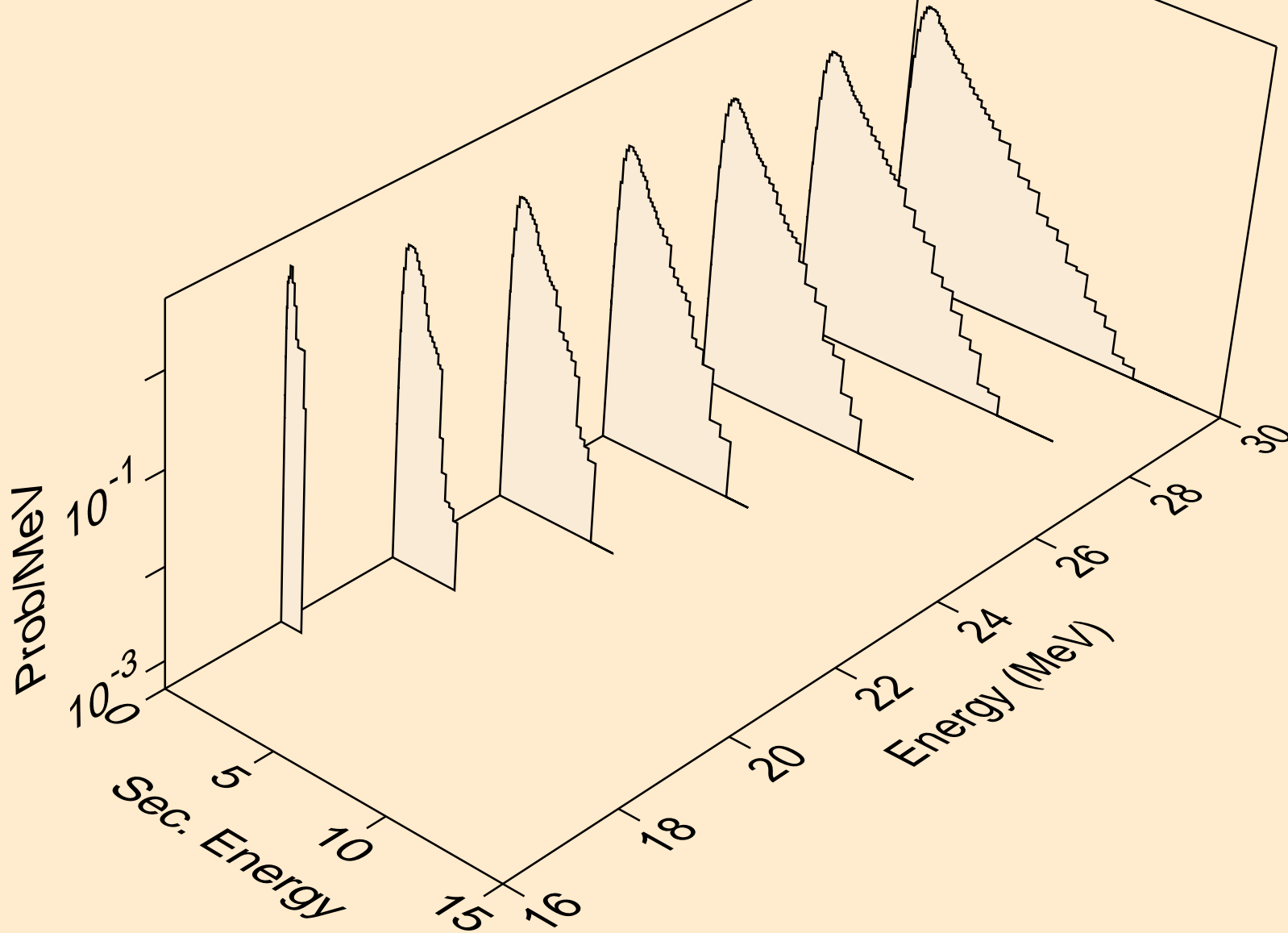
IR181 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,2nd)



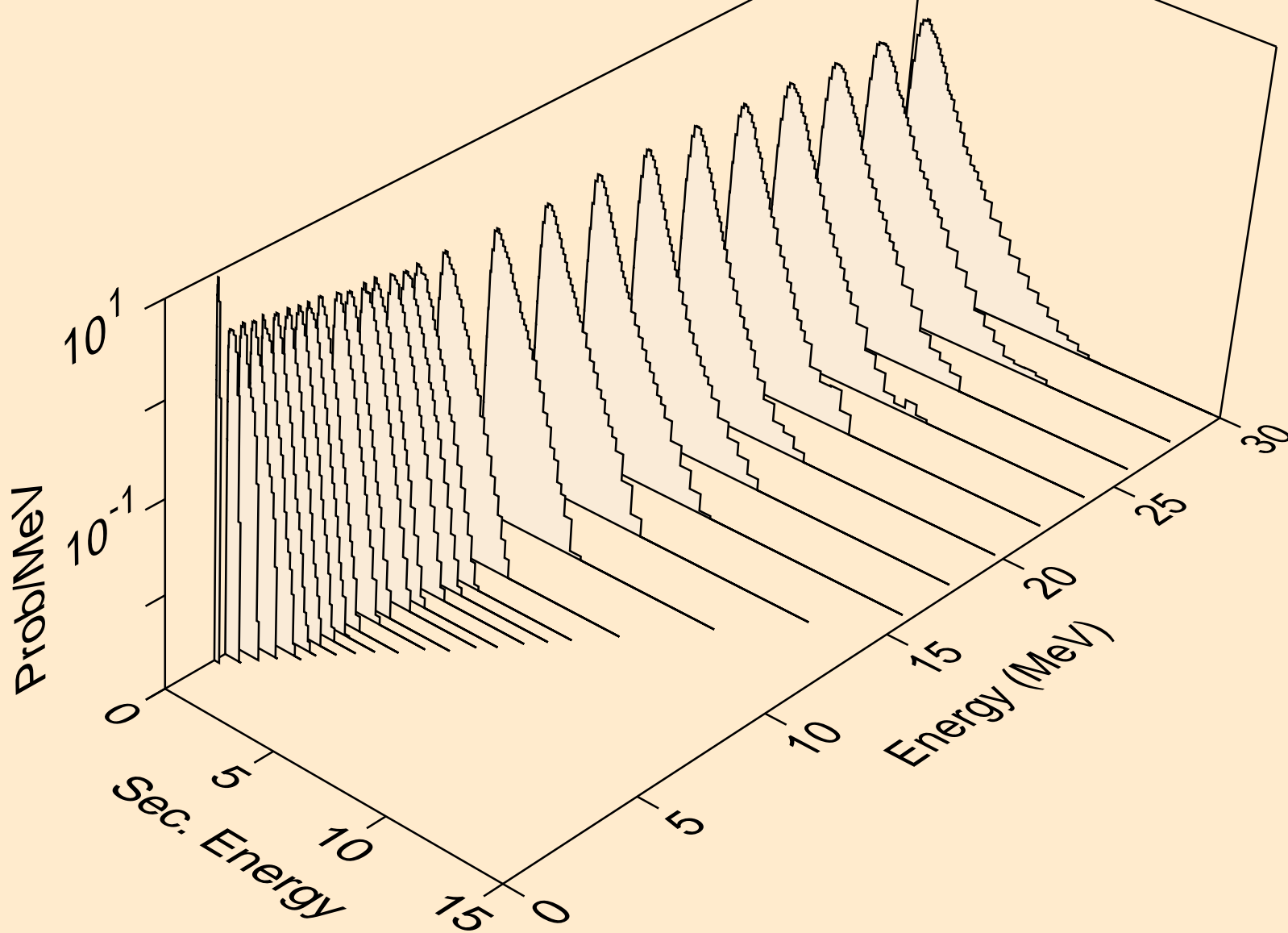
IR181 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,2n)



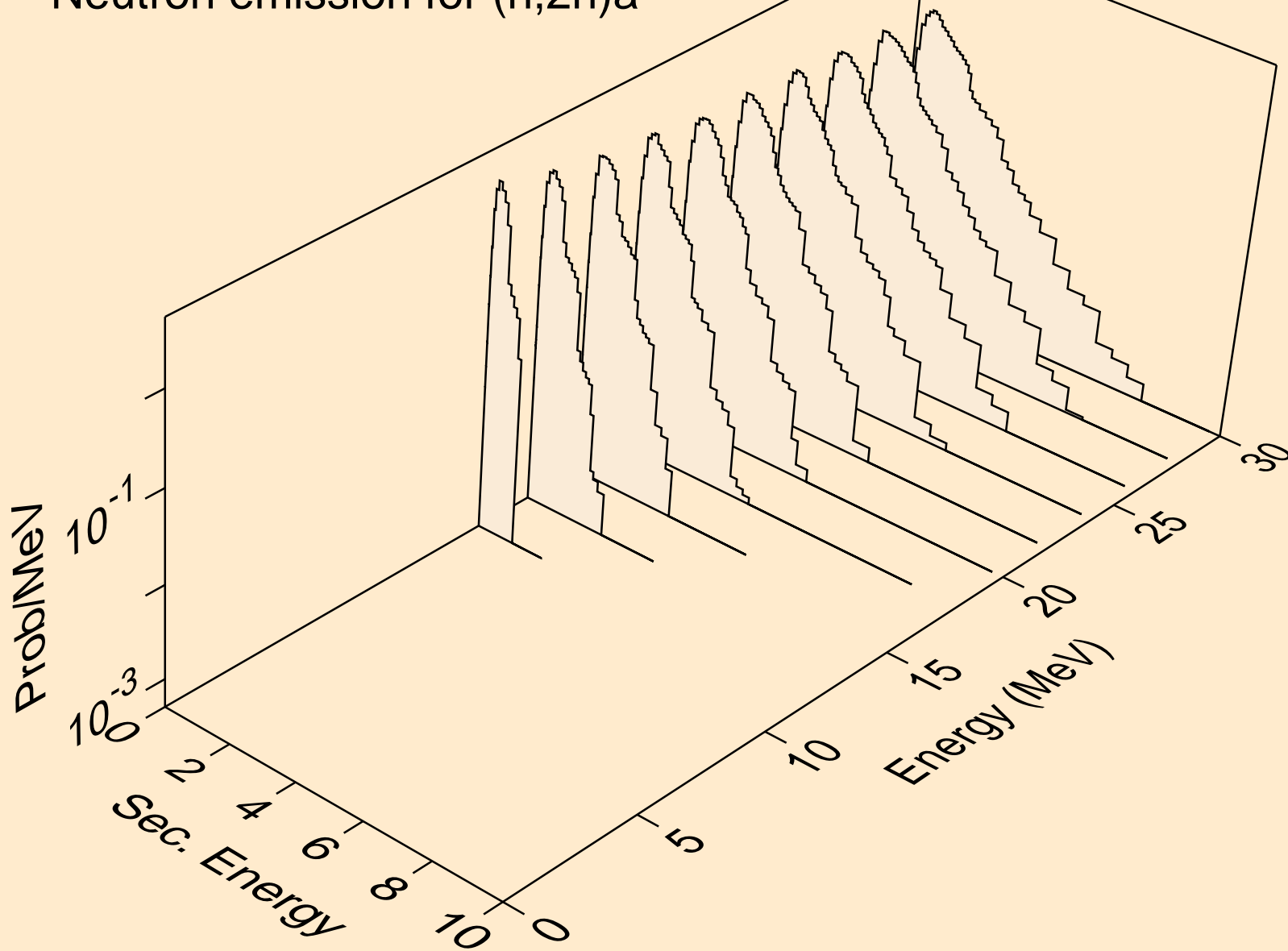
IR181 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,3n)



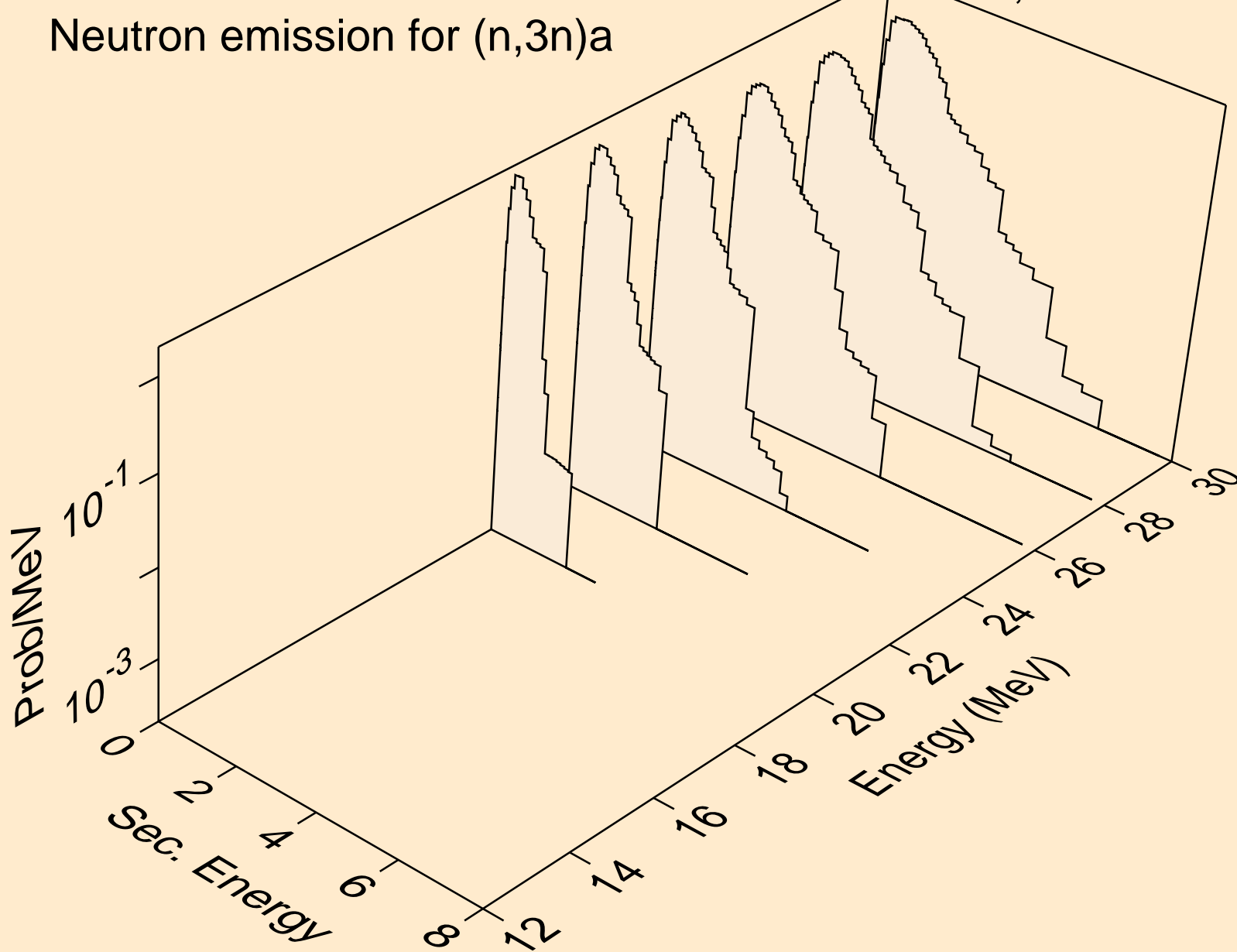
IR181 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,n\*)a



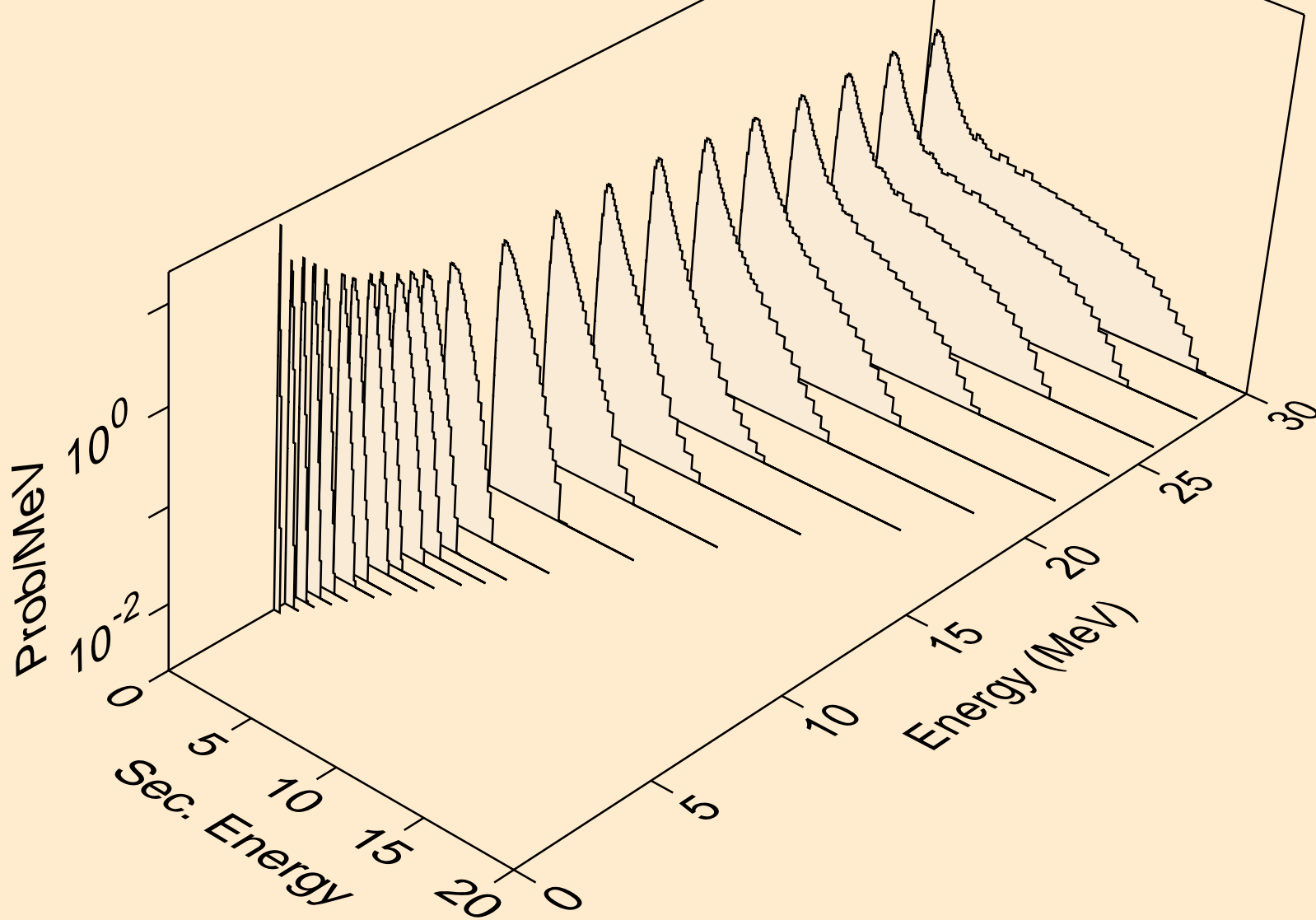
IR181 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,2n)<sub>a</sub>



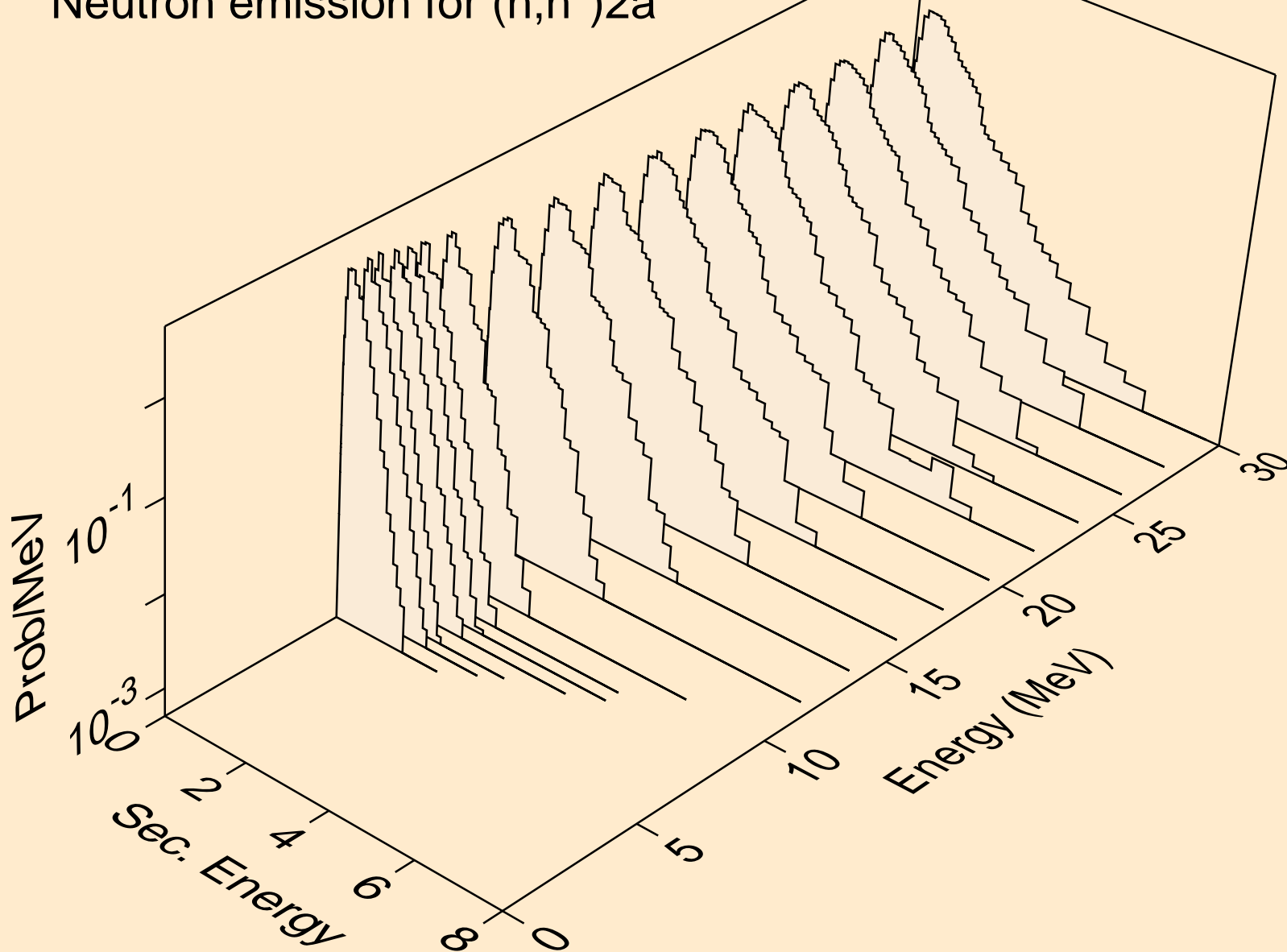
IR181 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,3n)a



IR181 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,n\*)p

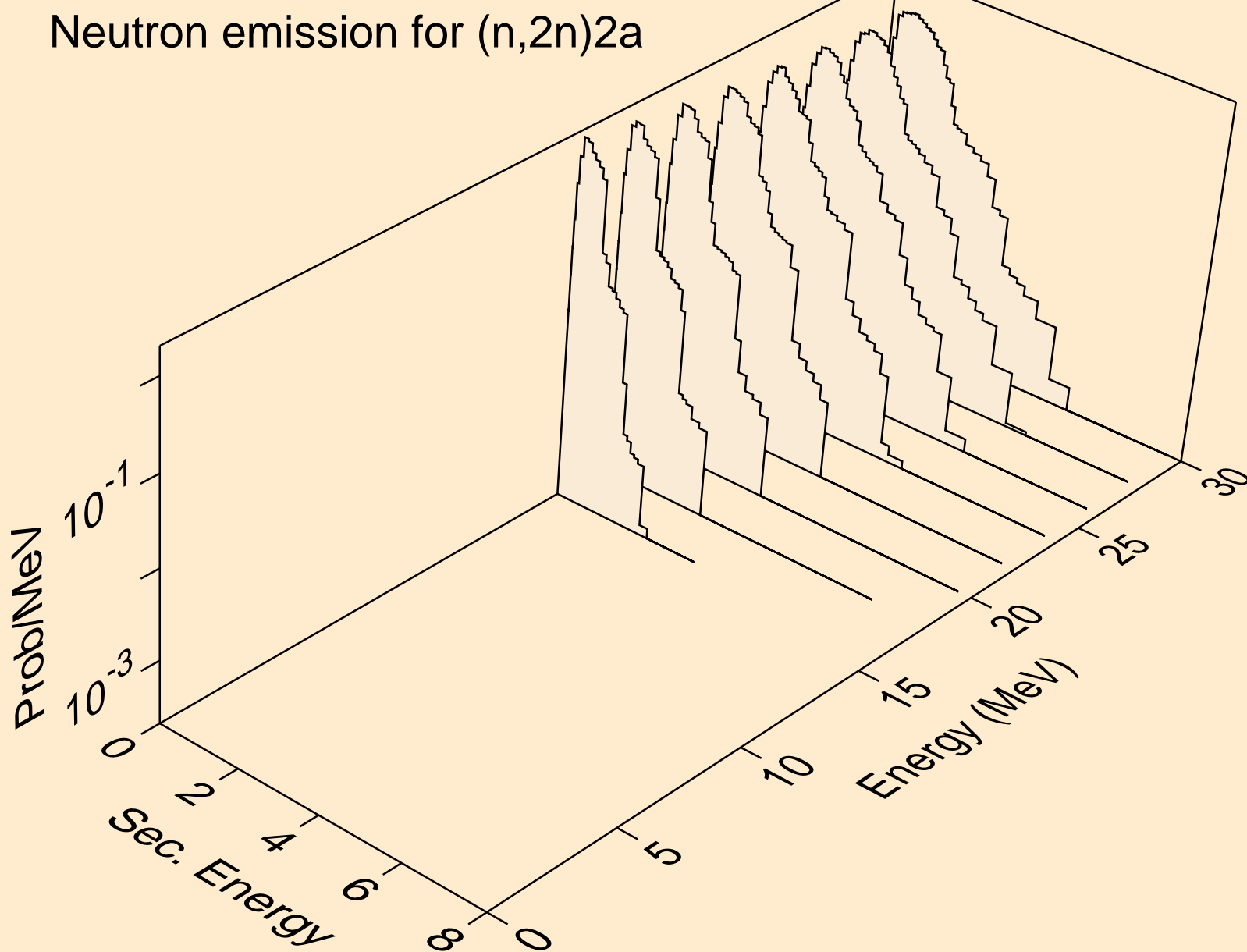


IR181 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,n\*)2a

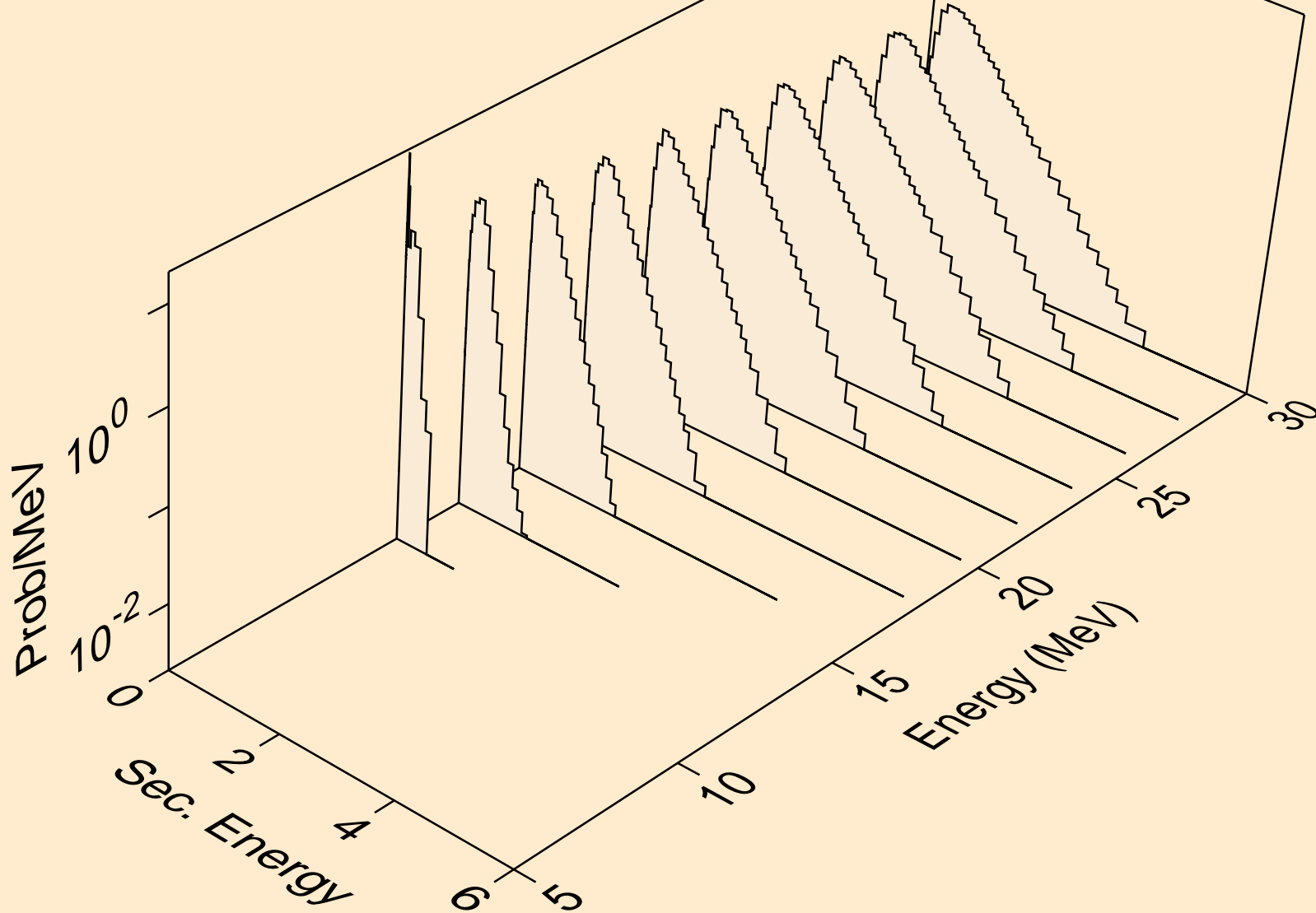




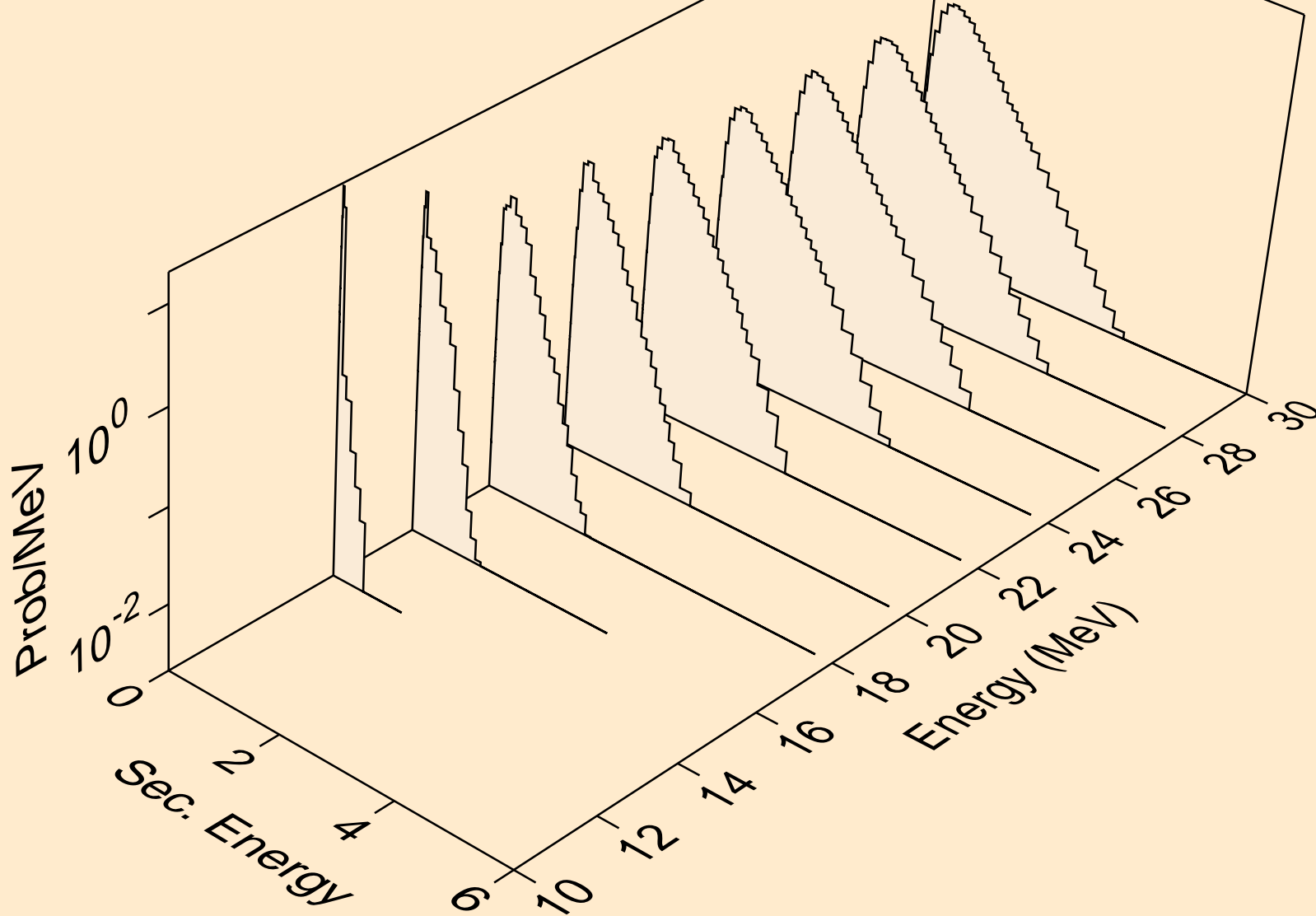
IR181 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,2n)2a



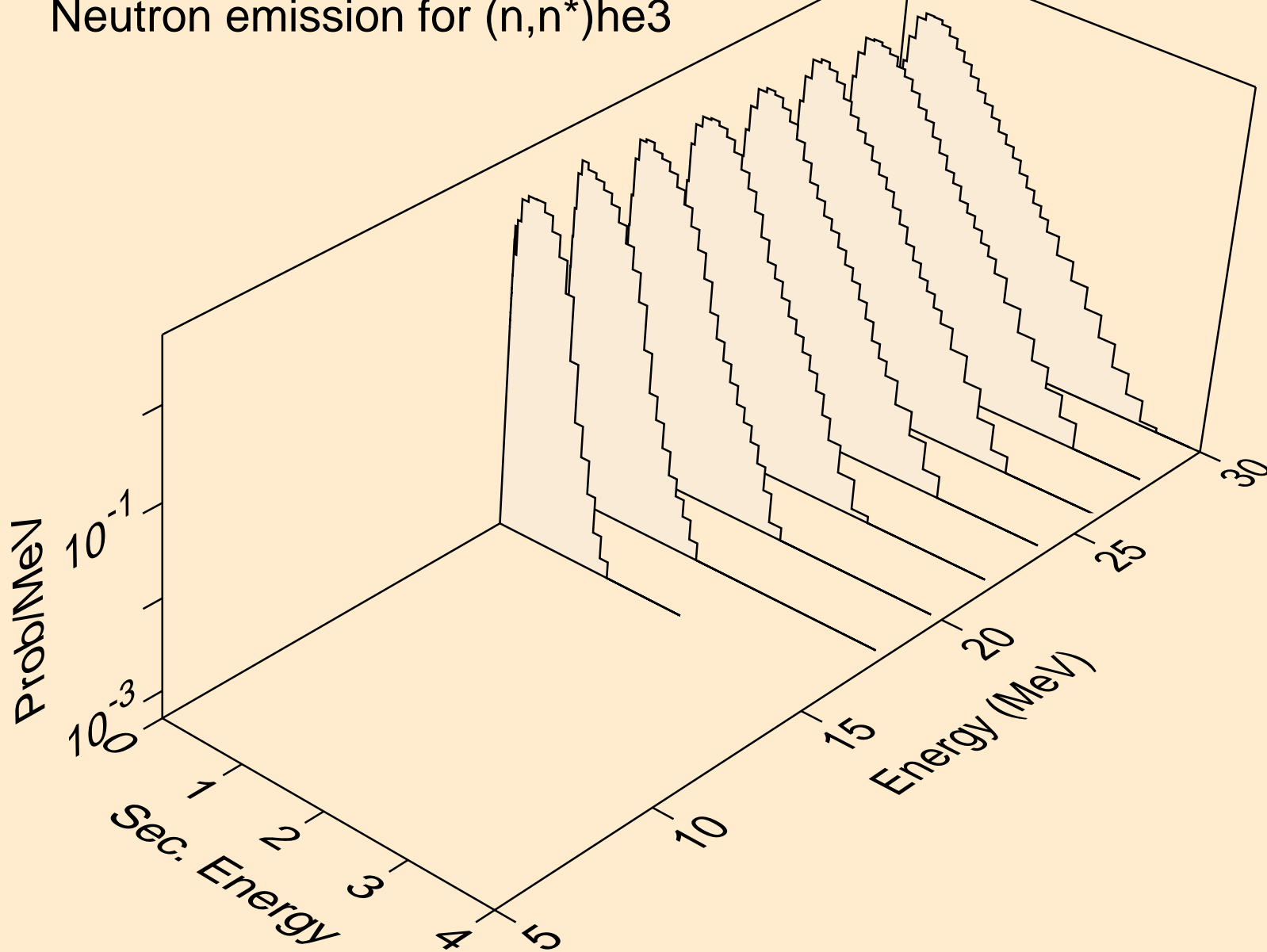
IR181 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,n\*)d



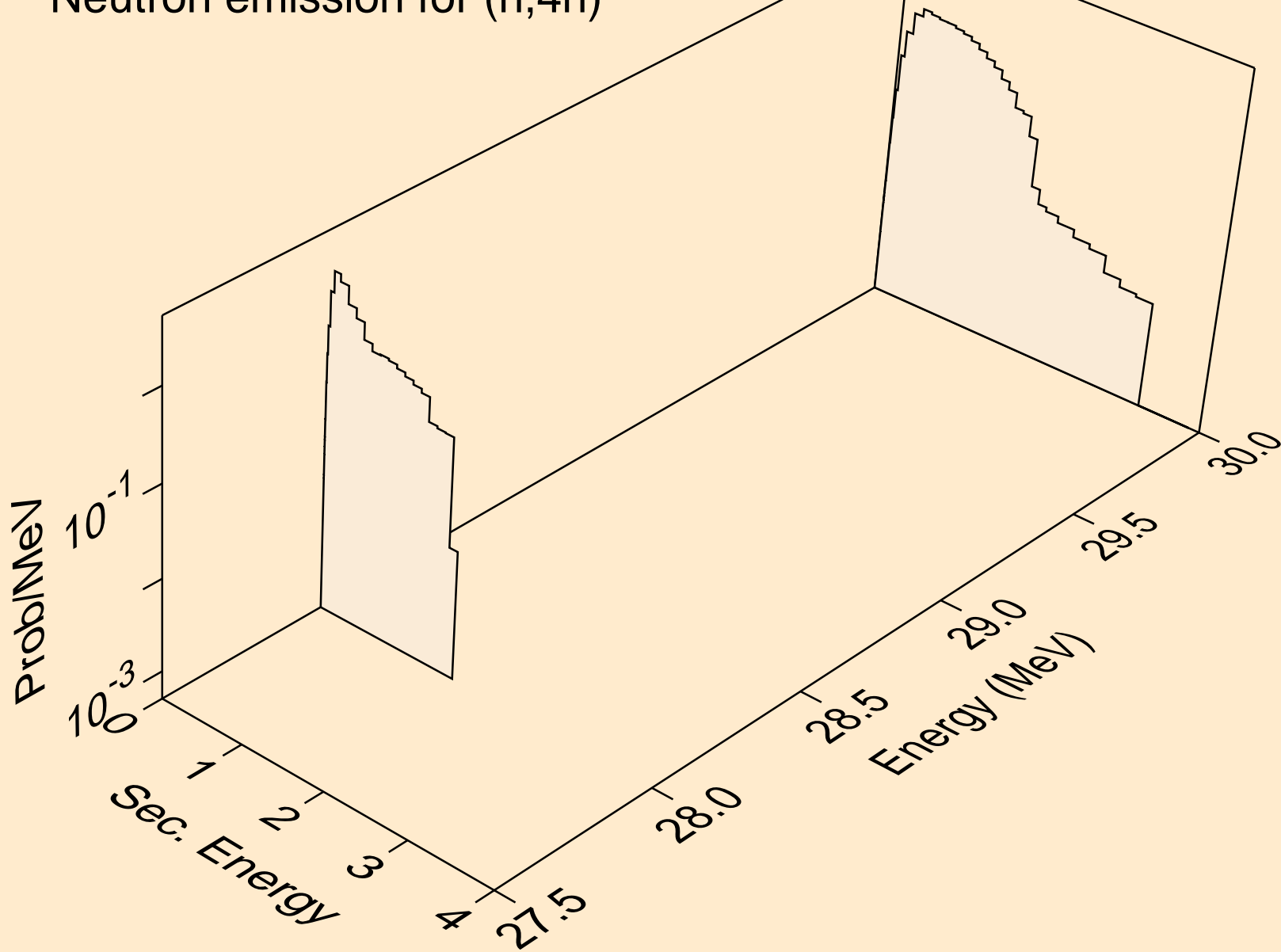
IR181 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,n\*)t



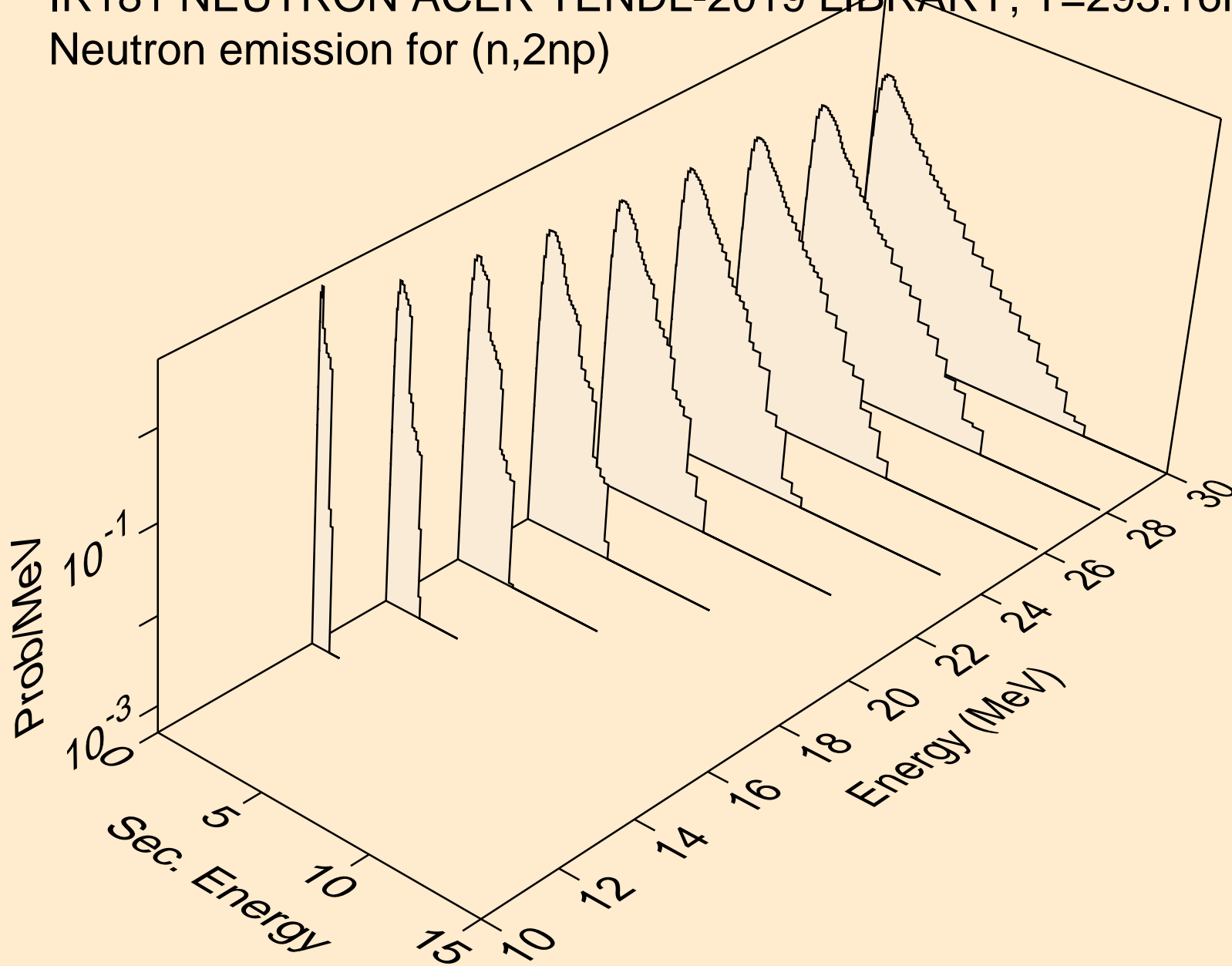
IR181 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,n\*)he3



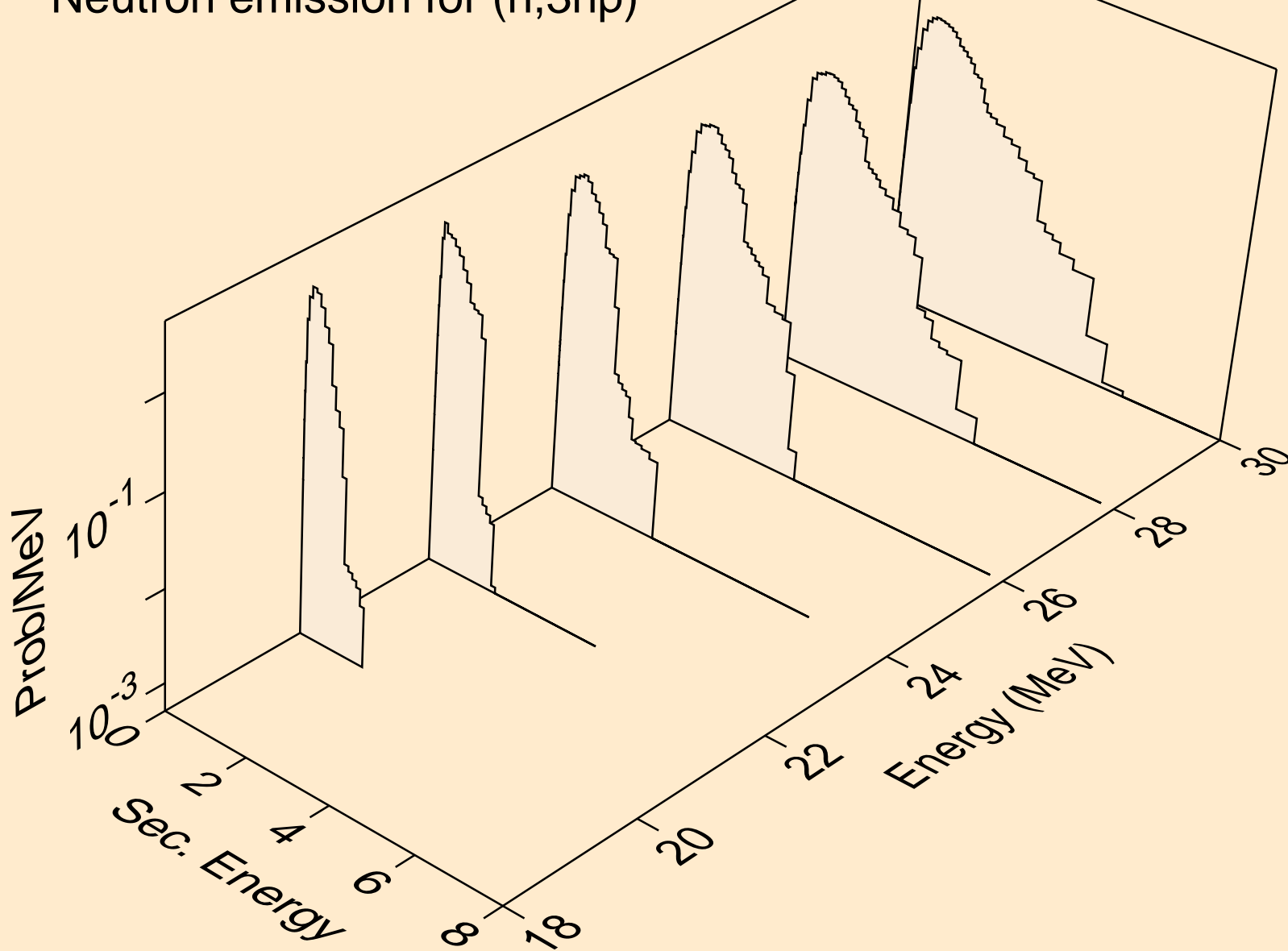
IR181 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,4n)



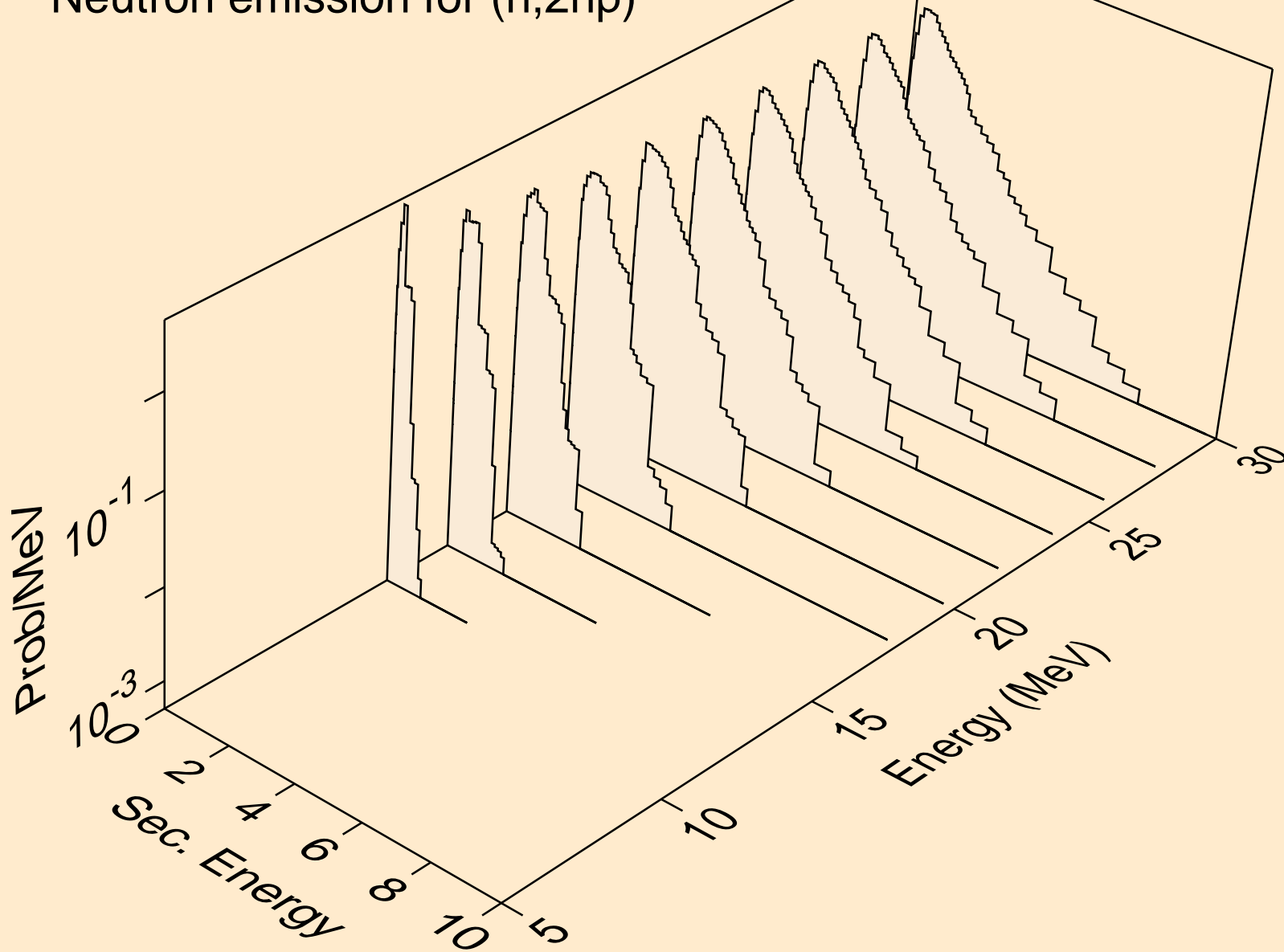
IR181 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,2np)



IR181 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,3np)

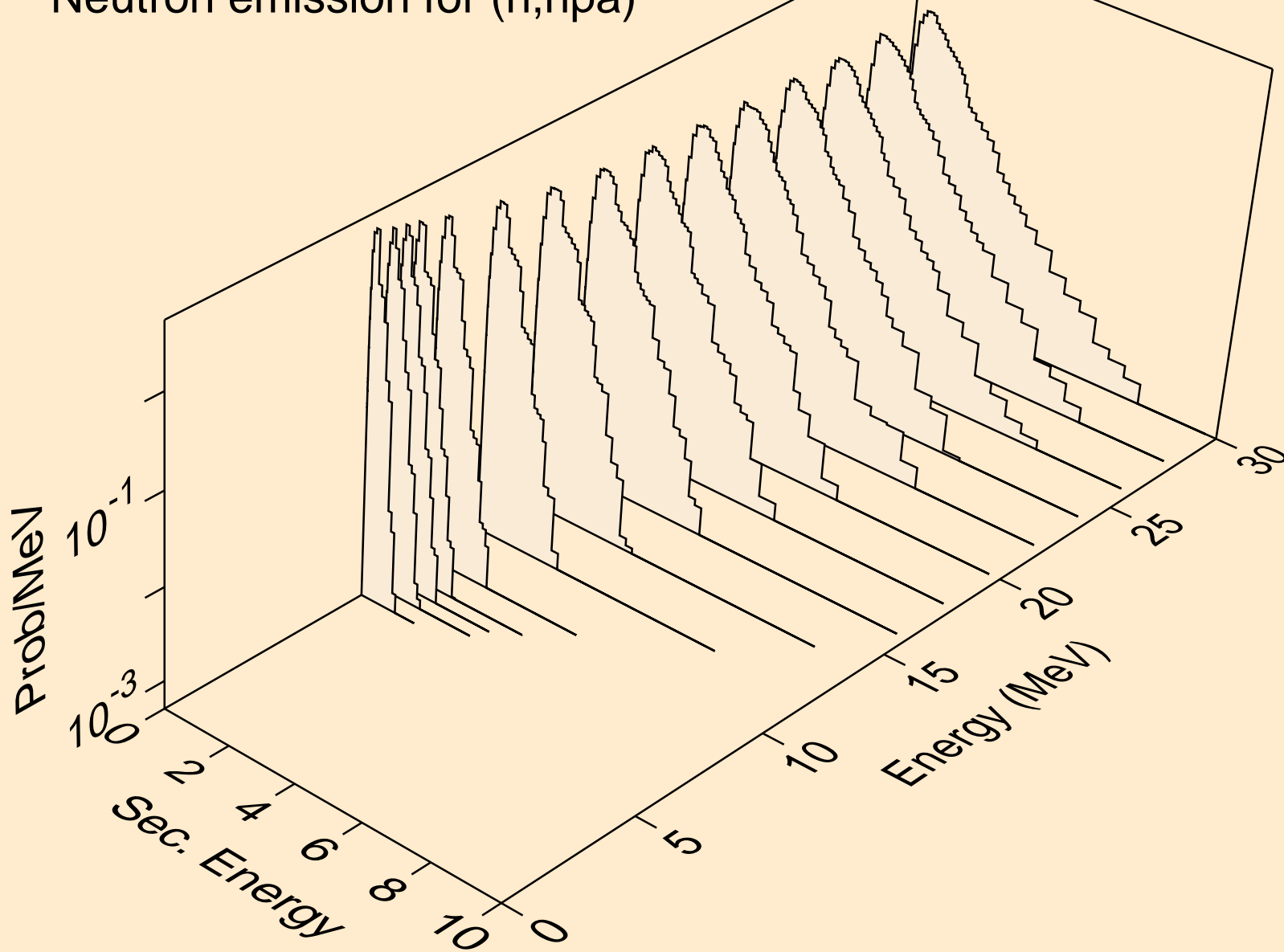


IR181 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,2np)

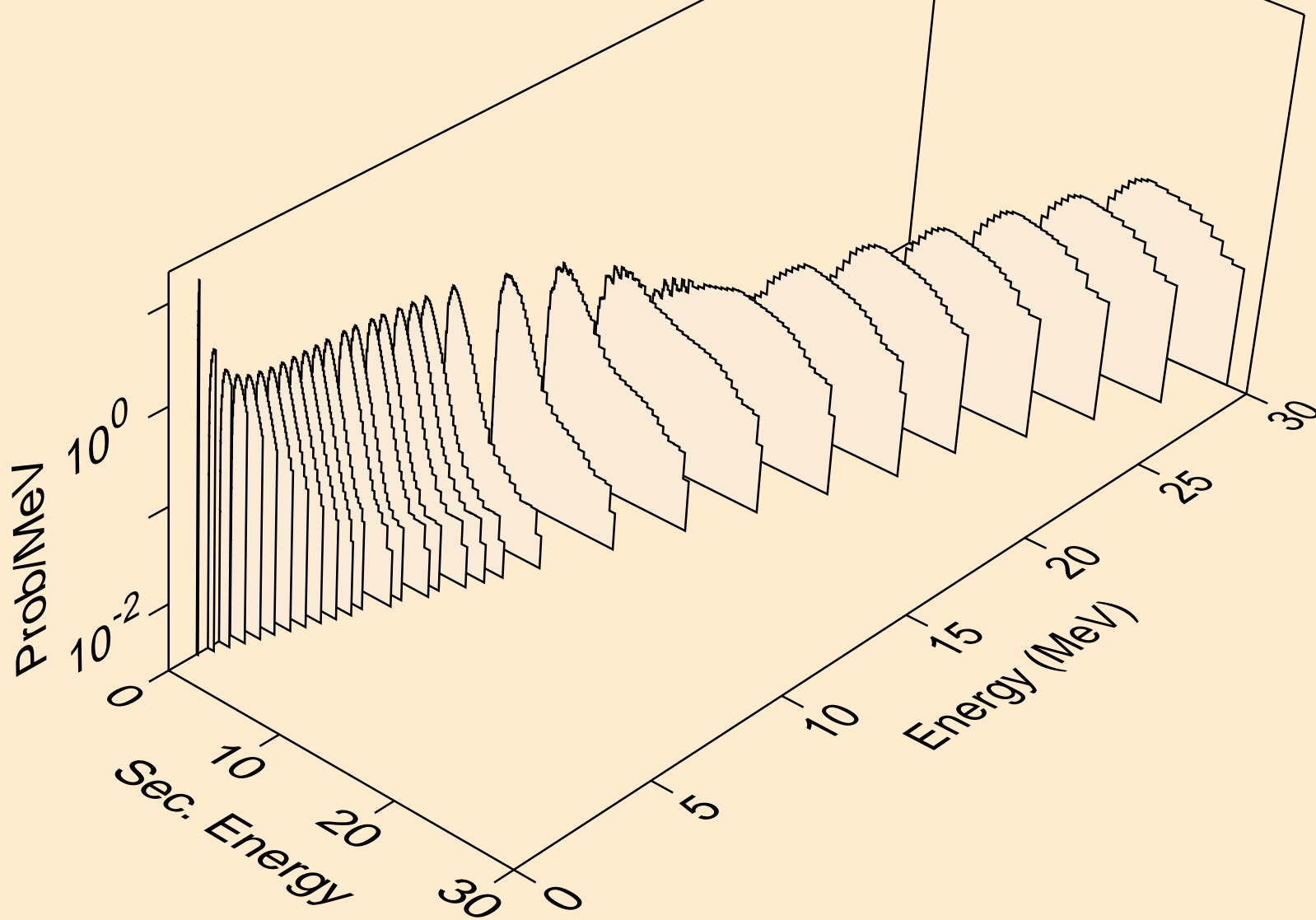




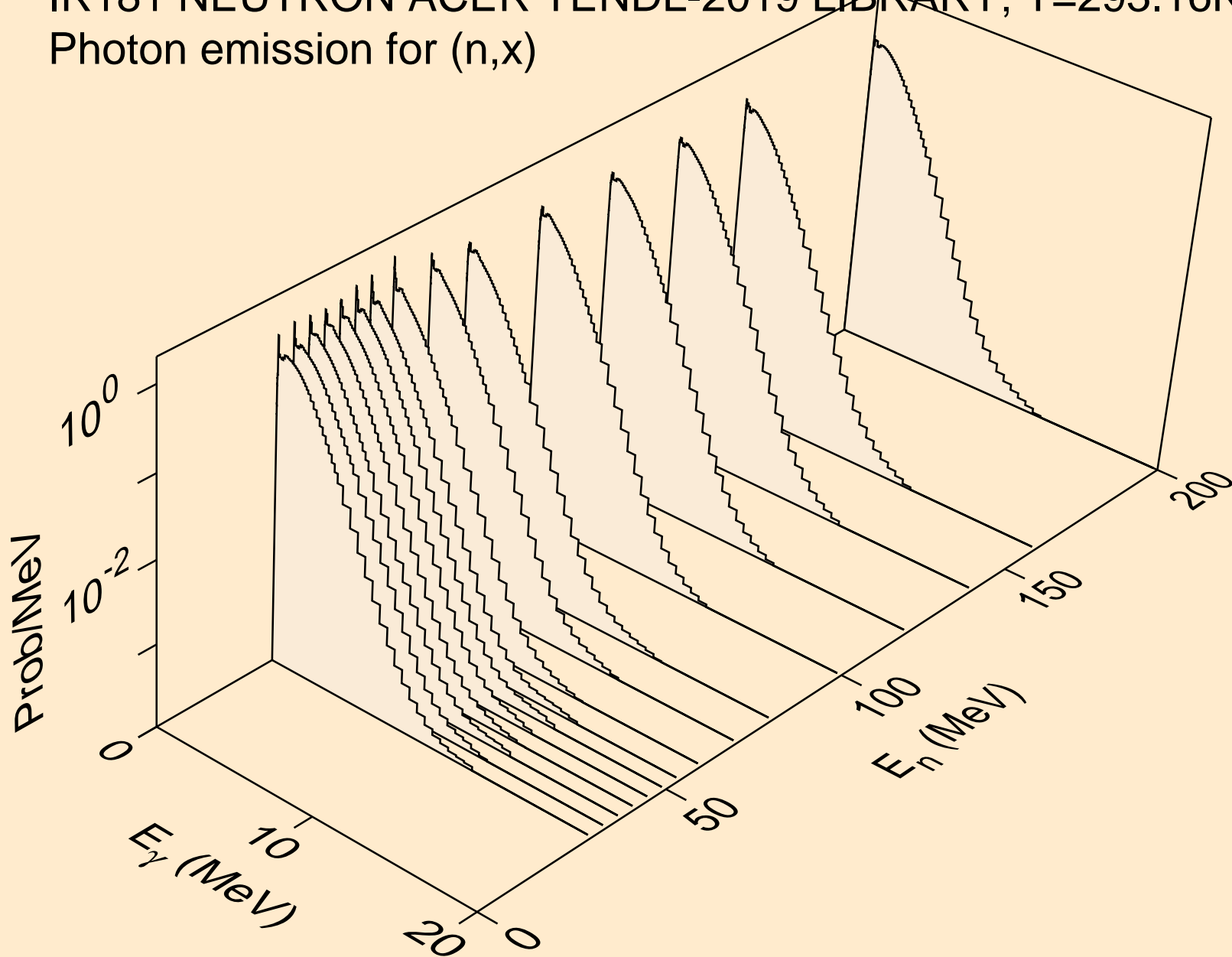
IR181 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,npa)



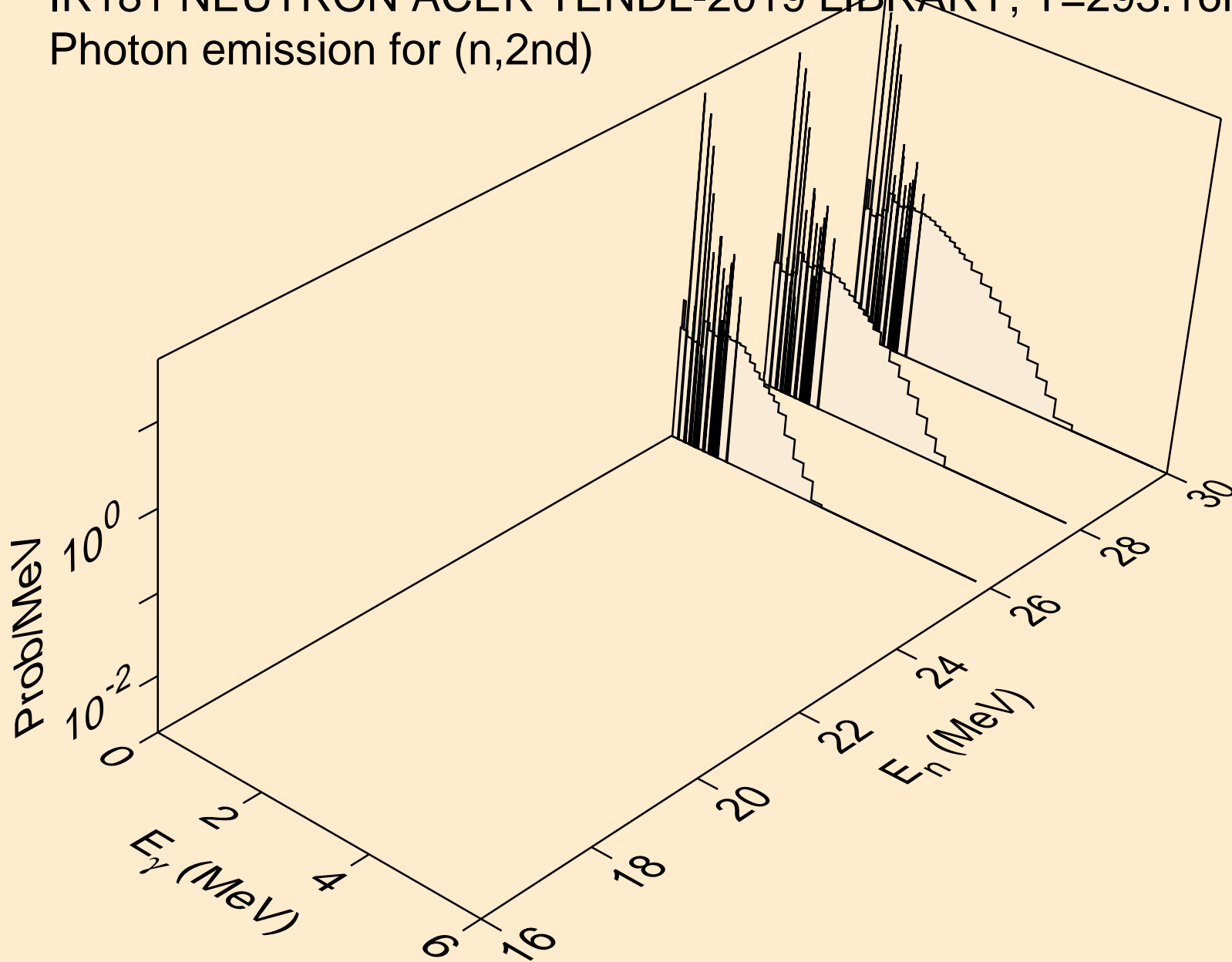
IR181 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,n\*c)



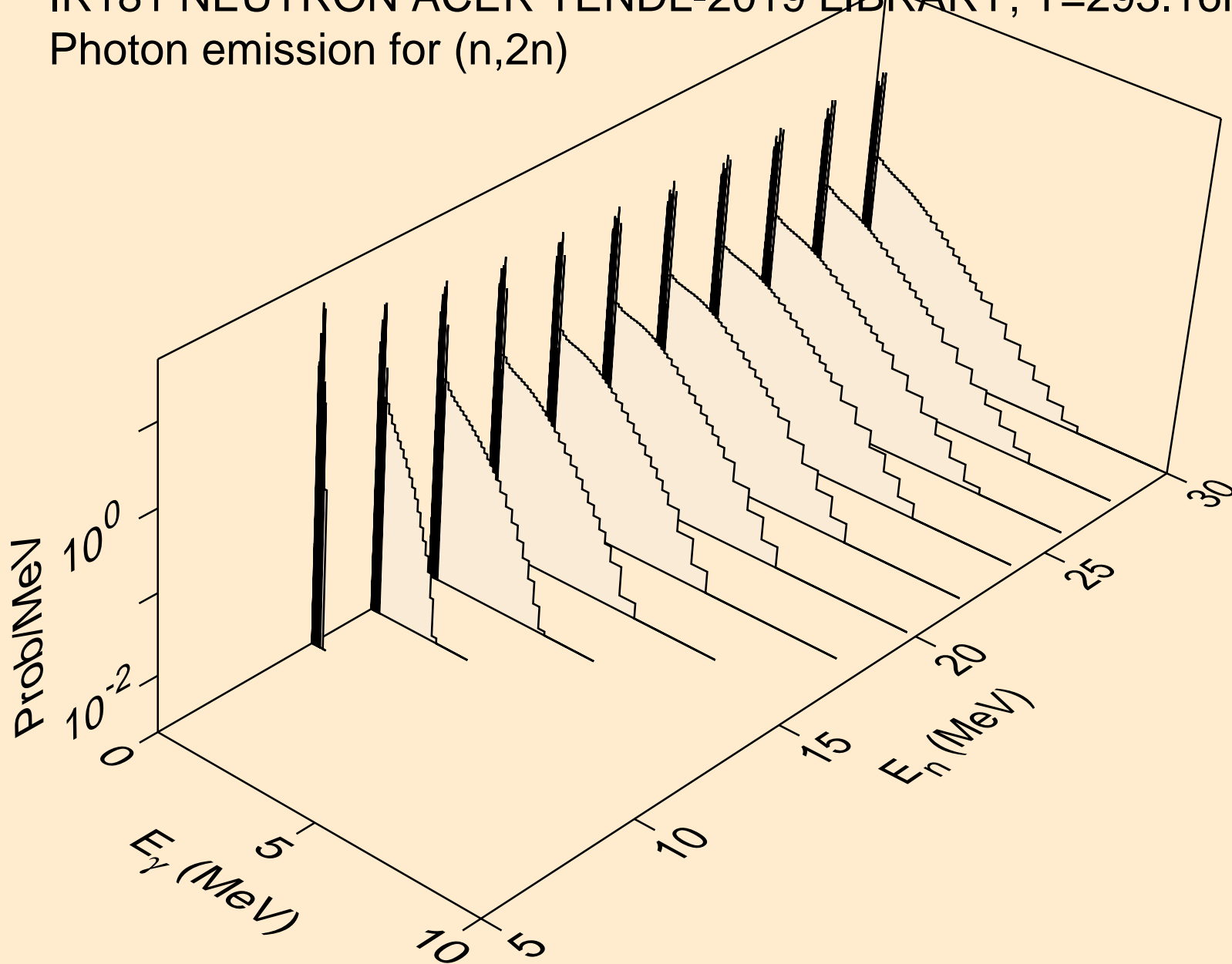
IR181 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,x)



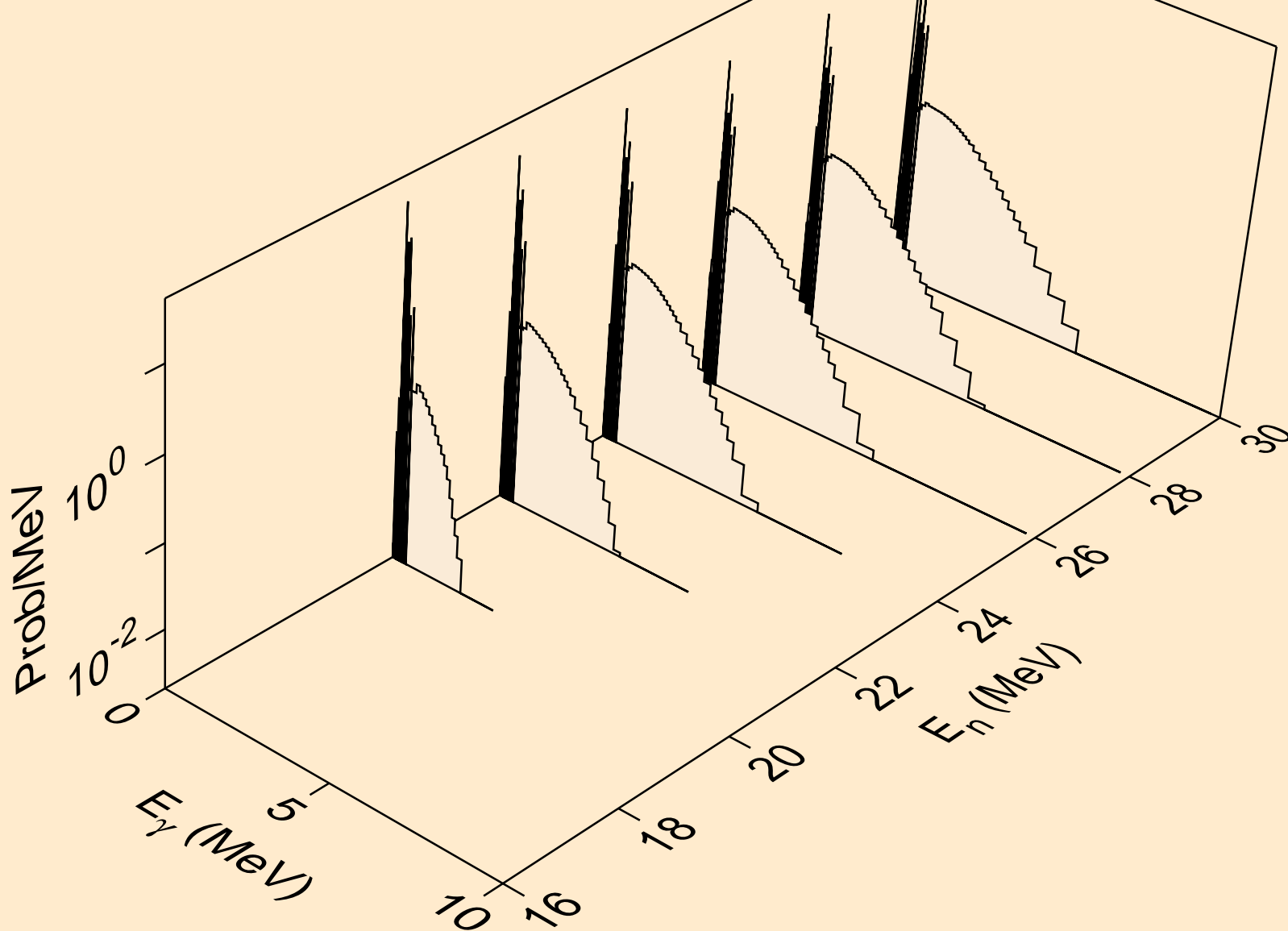
IR181 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,2nd)



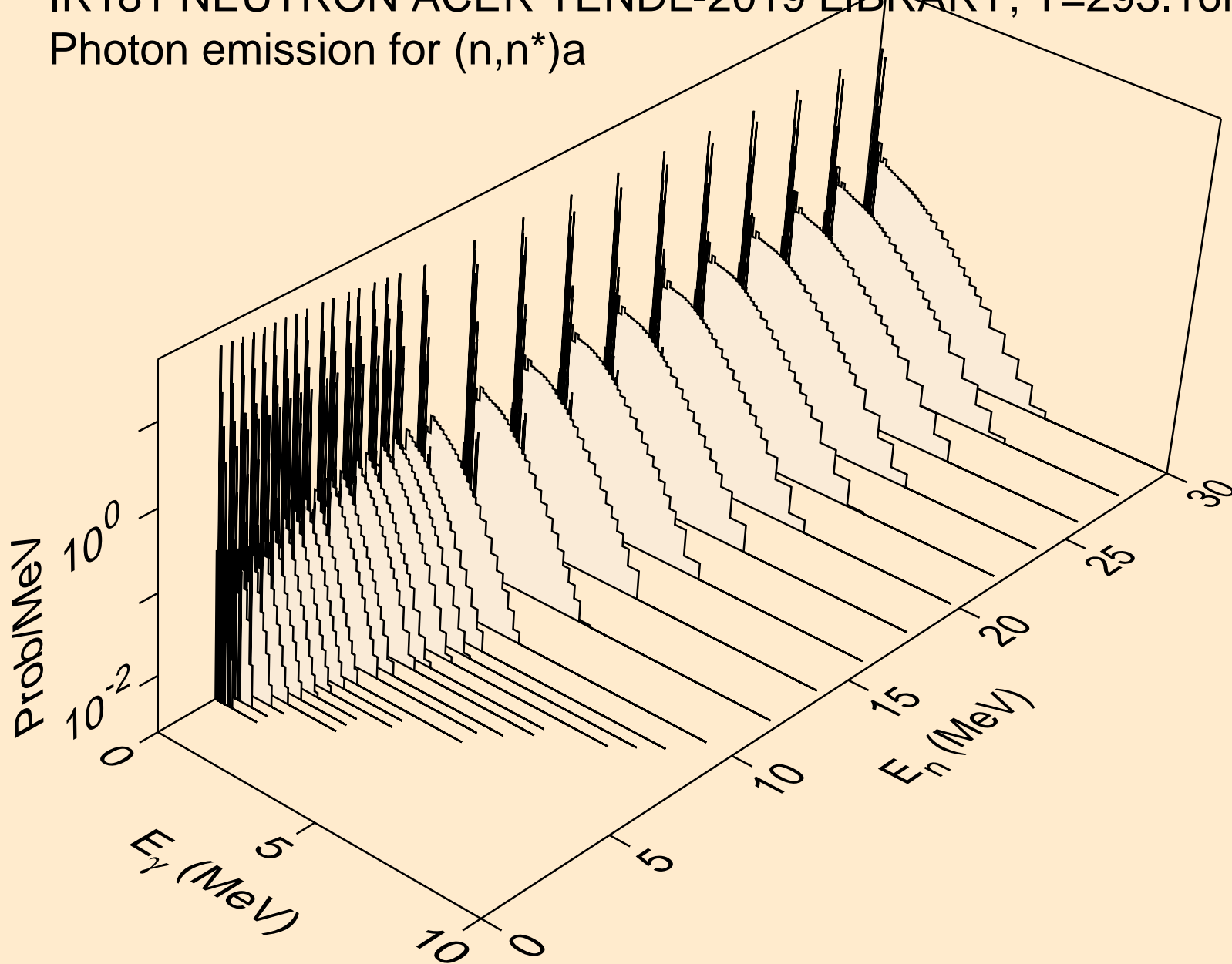
IR181 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,2n)



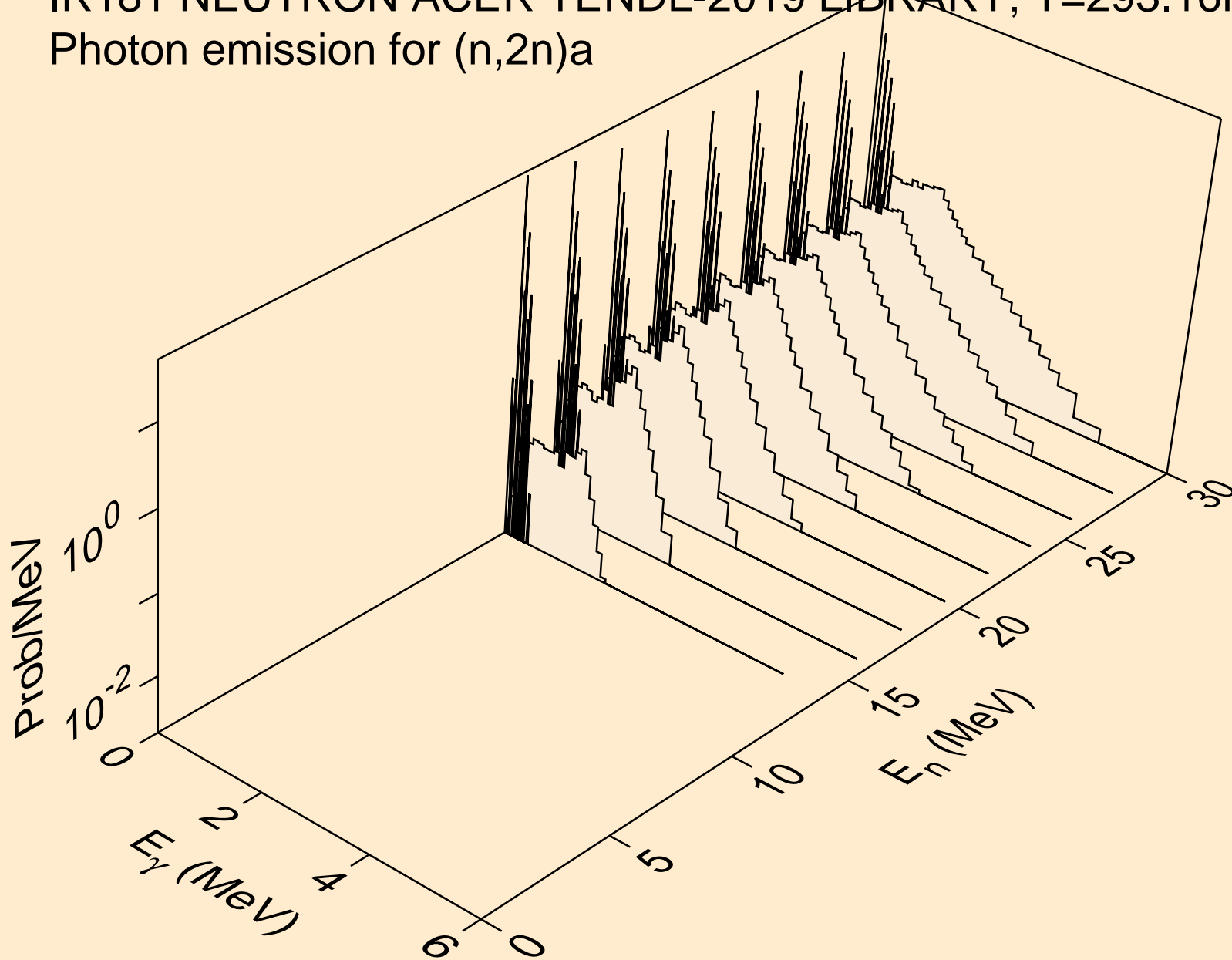
IR181 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,3n)



IR181 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,n\*)a

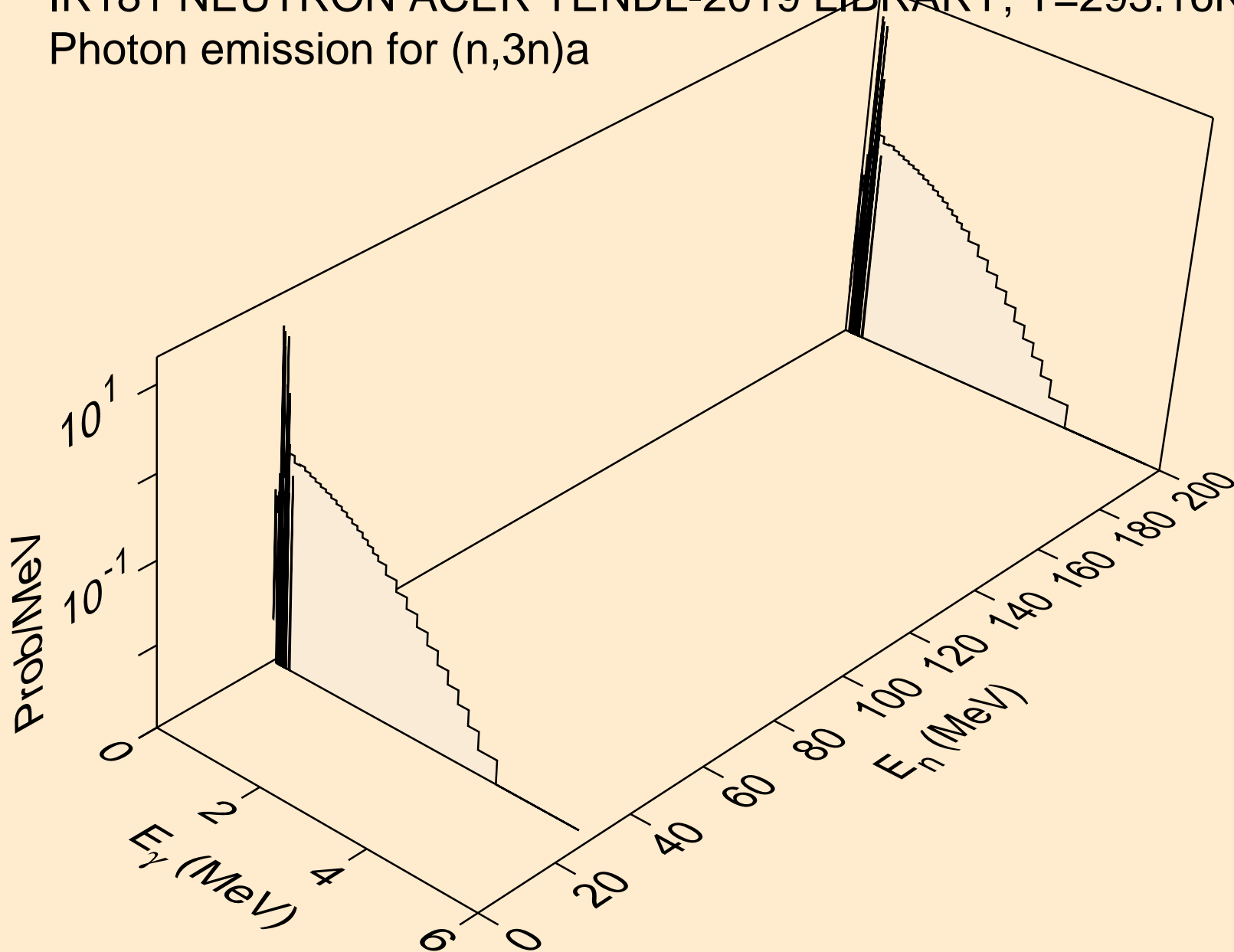


IR181 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,2n)a

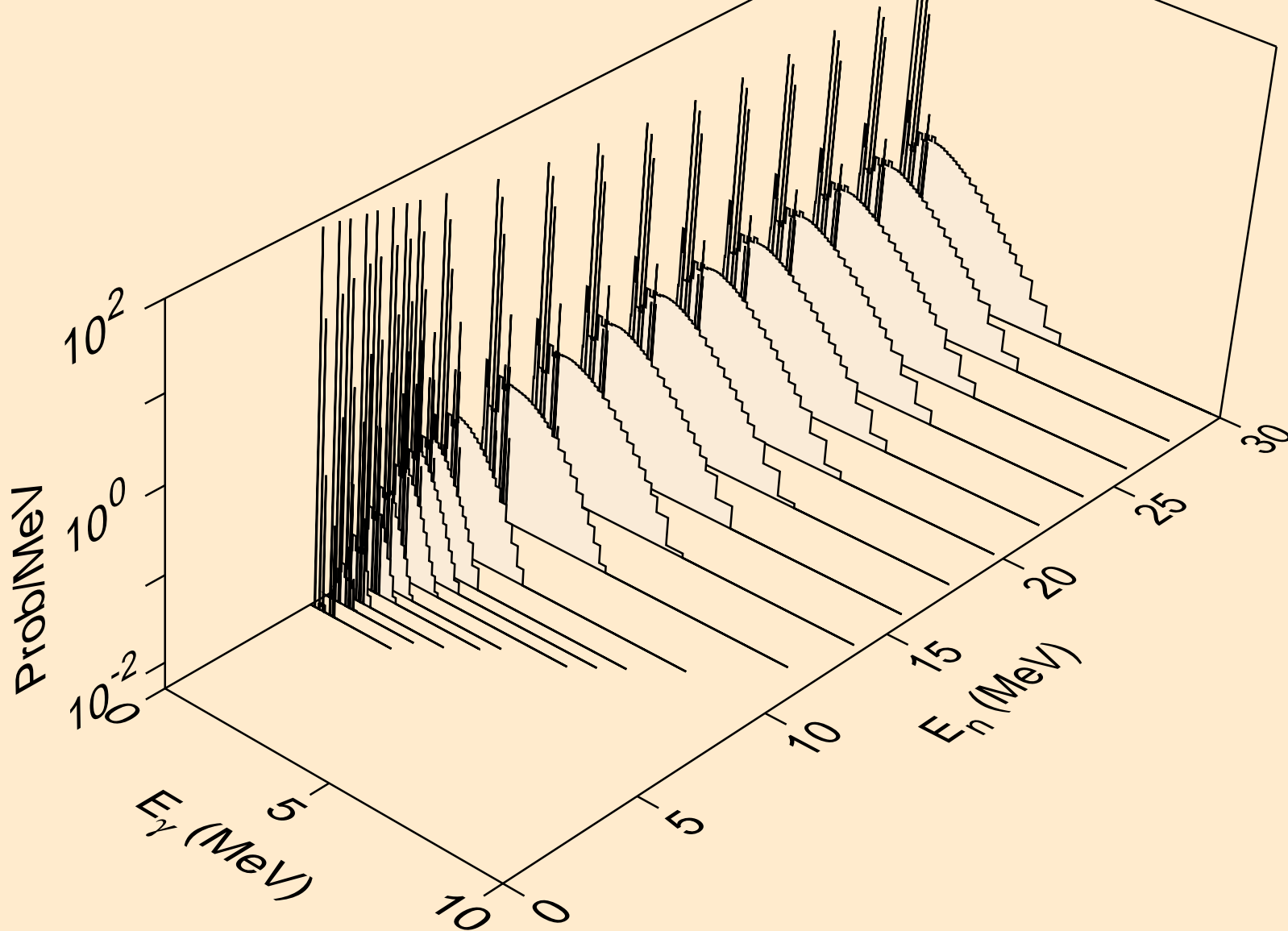




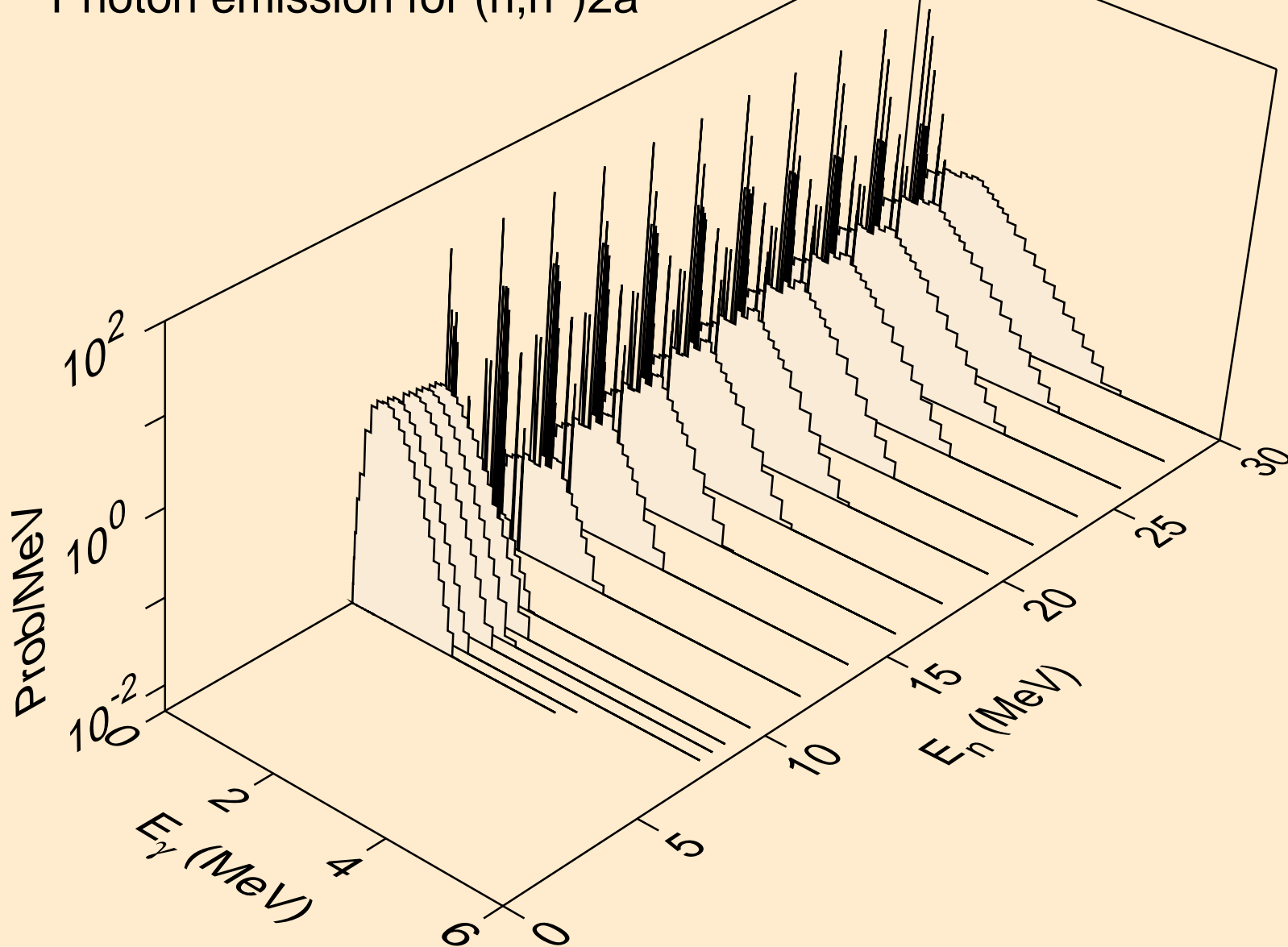
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Photon emission for (n,3n)a



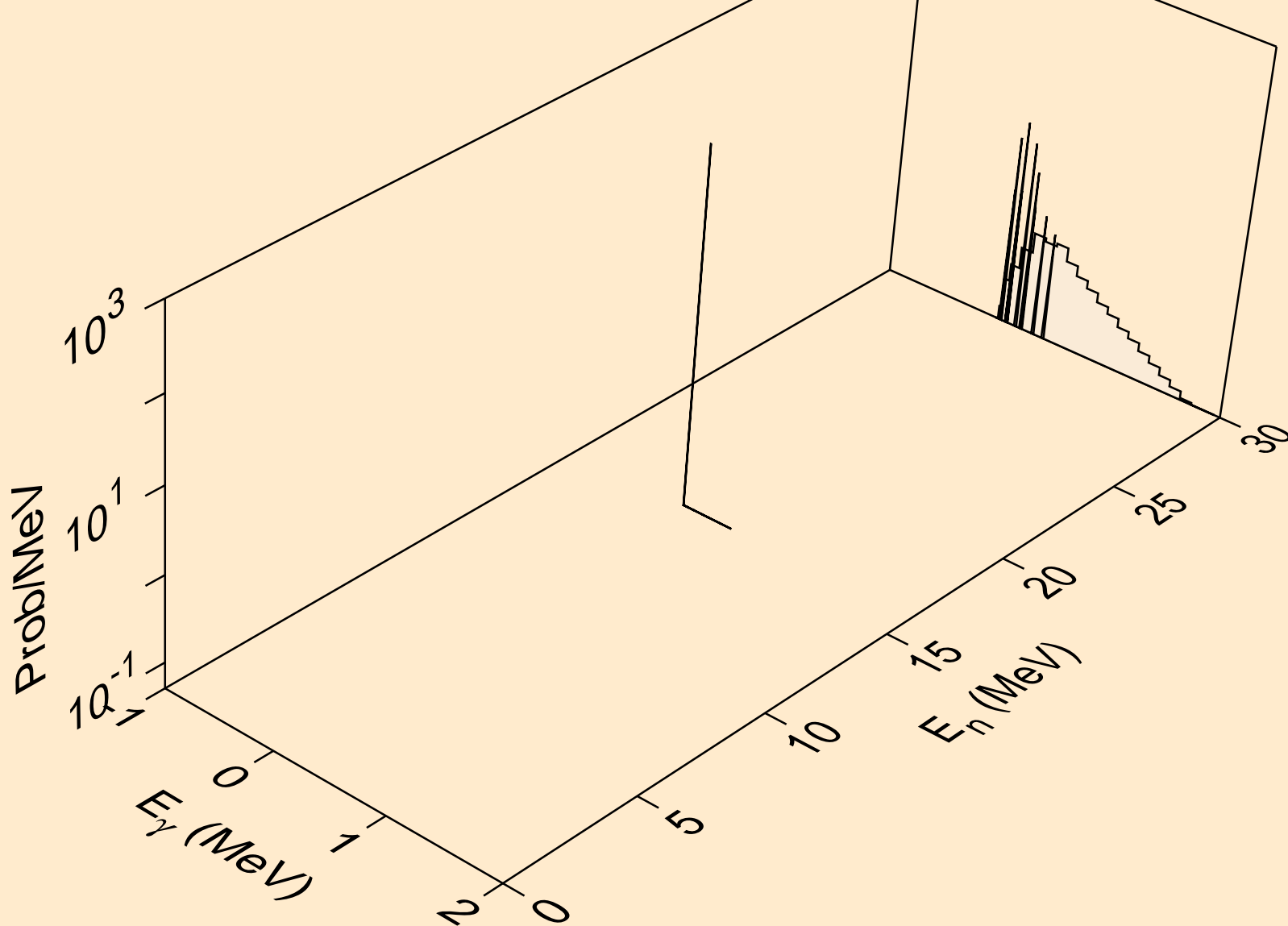
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Photon emission for (n,n\*)p



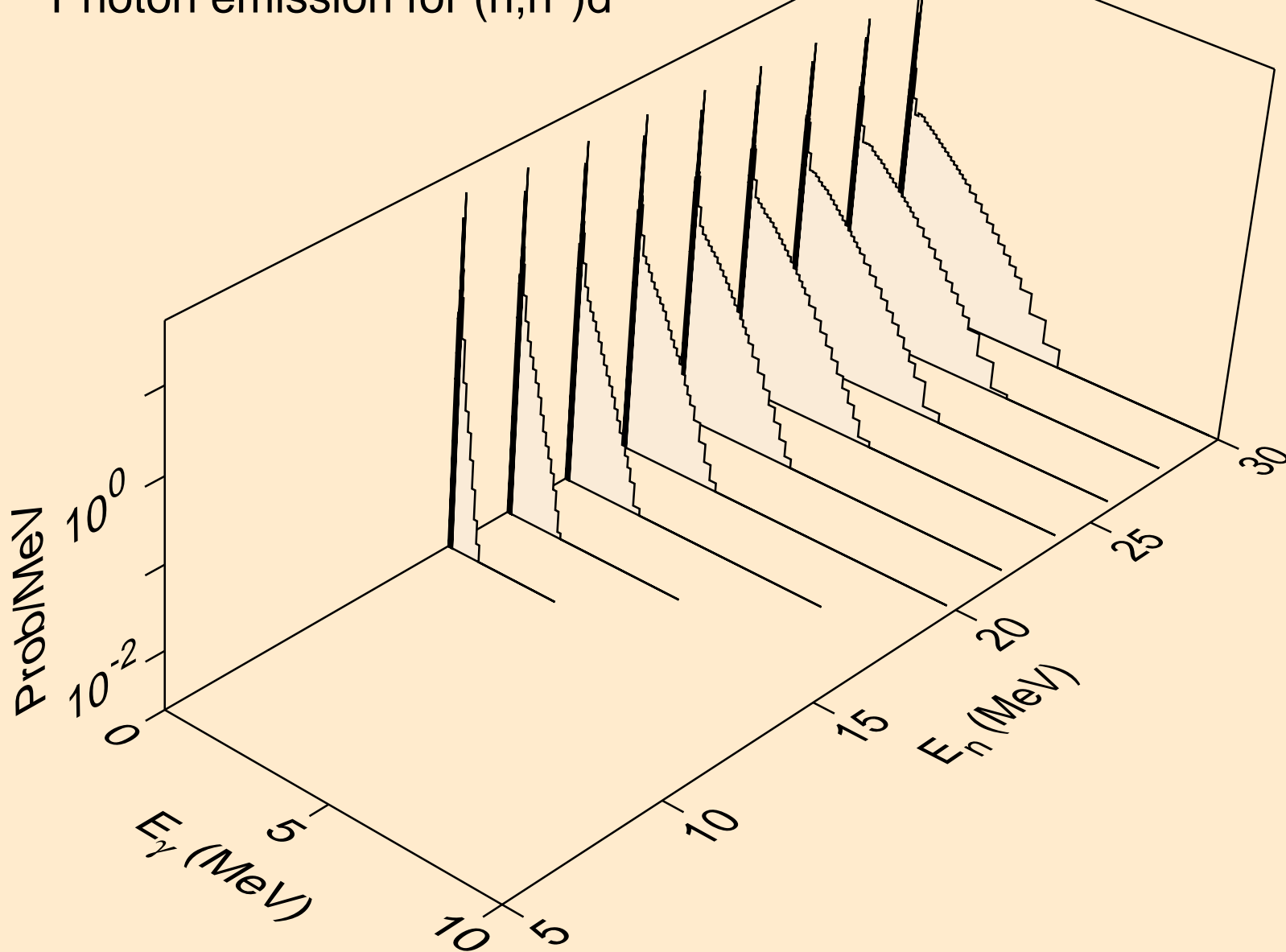
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Photon emission for (n,n\*)2a



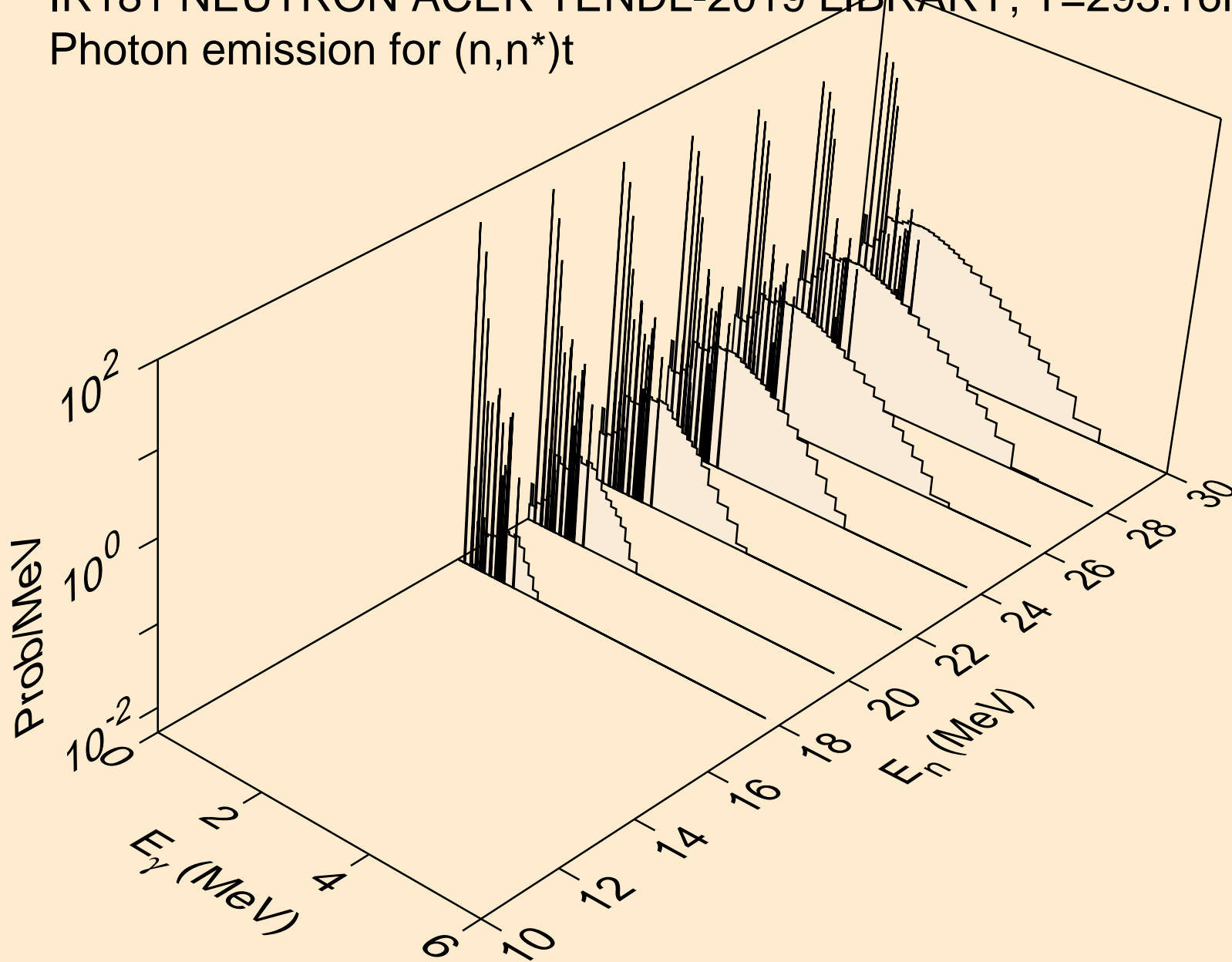
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Photon emission for (n,2n)2a



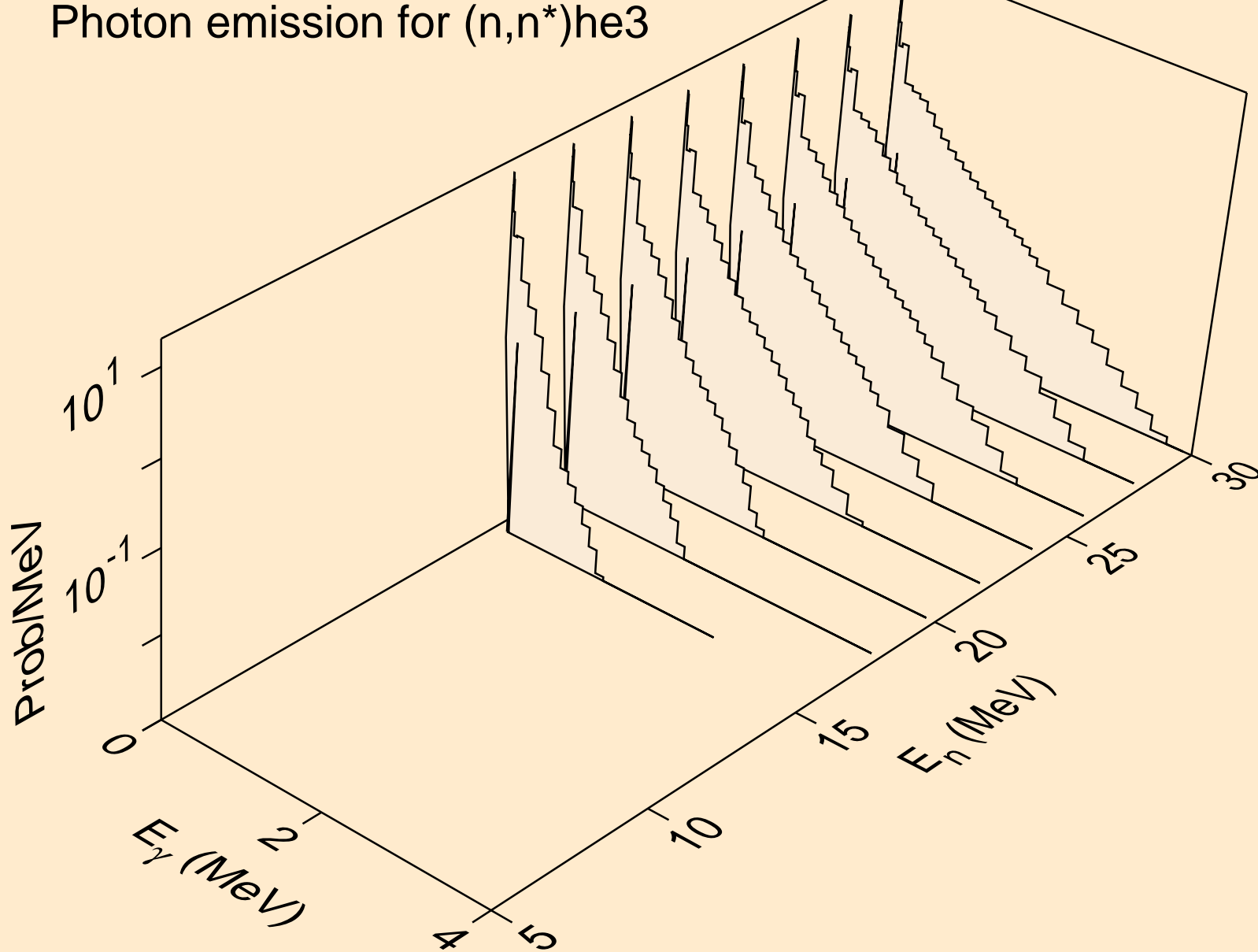
IR181 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,n\*)d



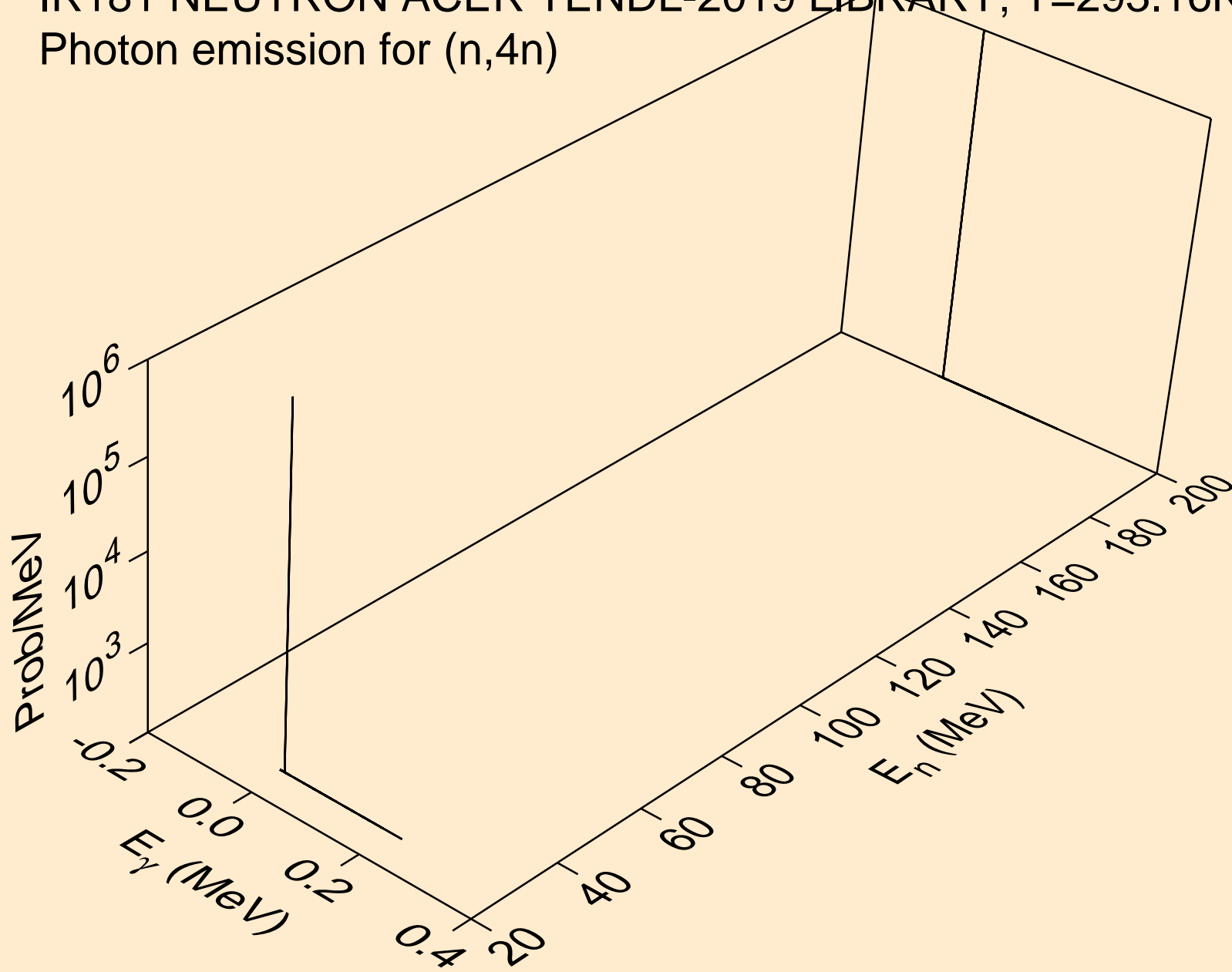
IR181 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,n\*)t



IR181 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,n\*)he3

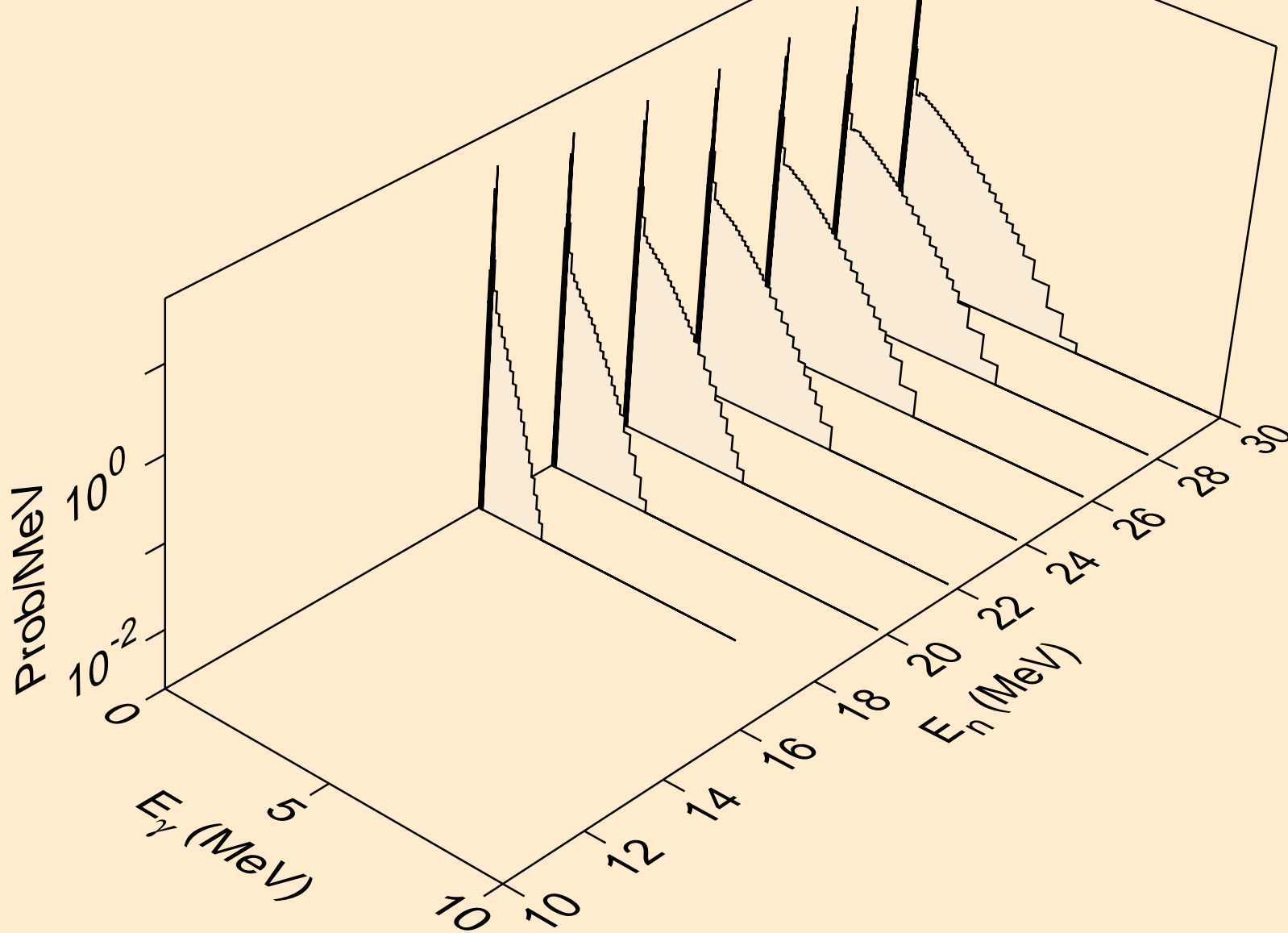


IR181 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,4n)

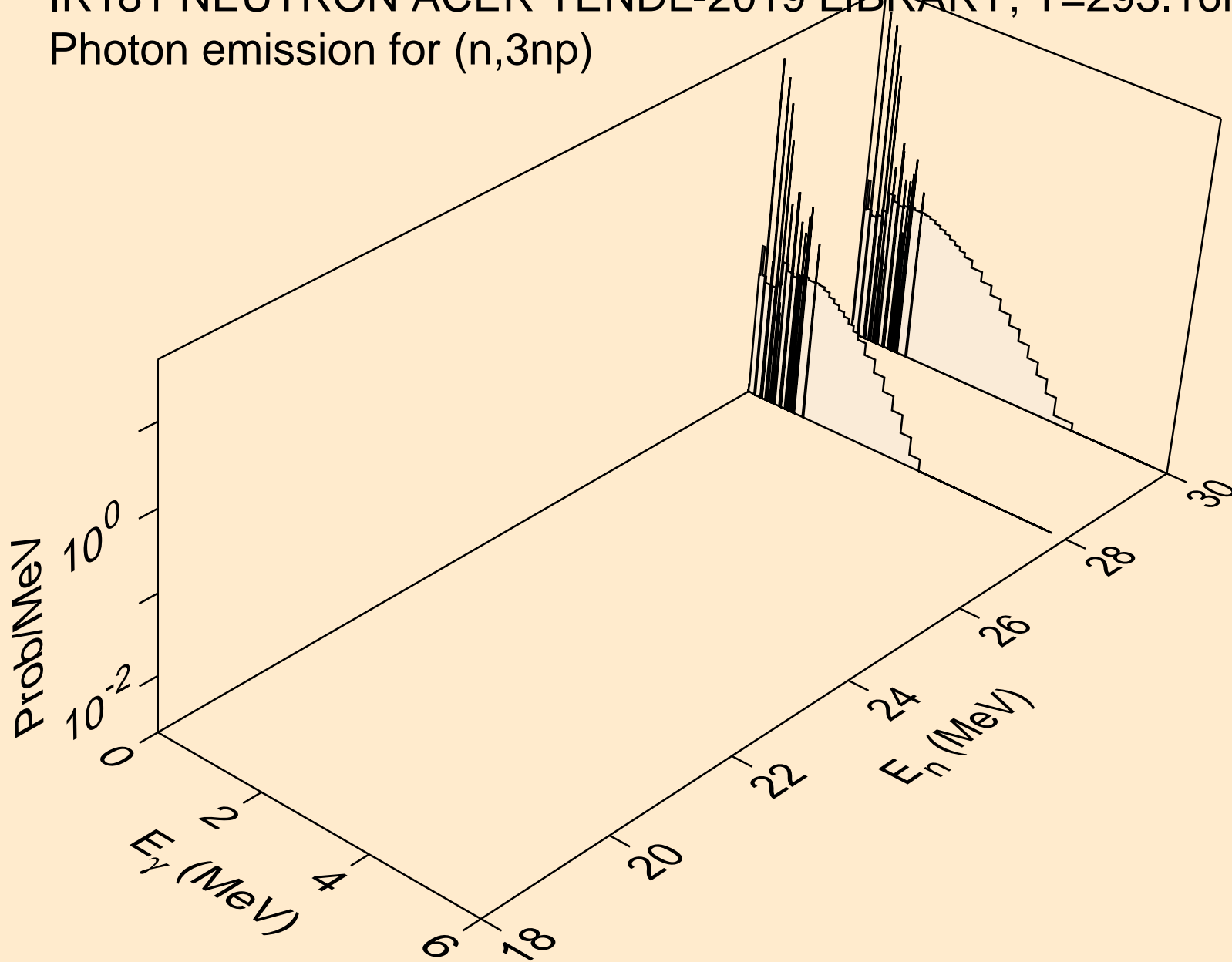




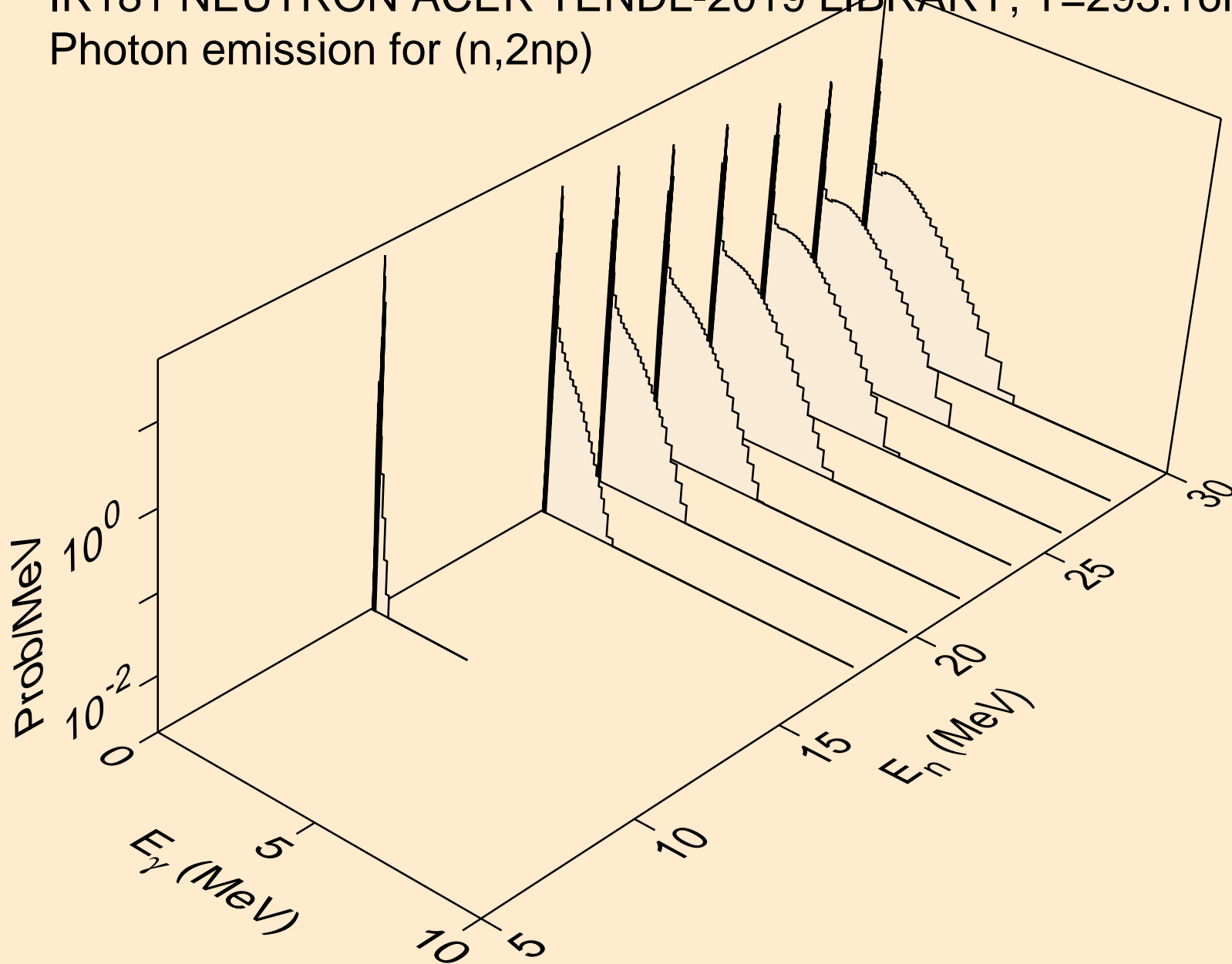
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Photon emission for (n,2np)



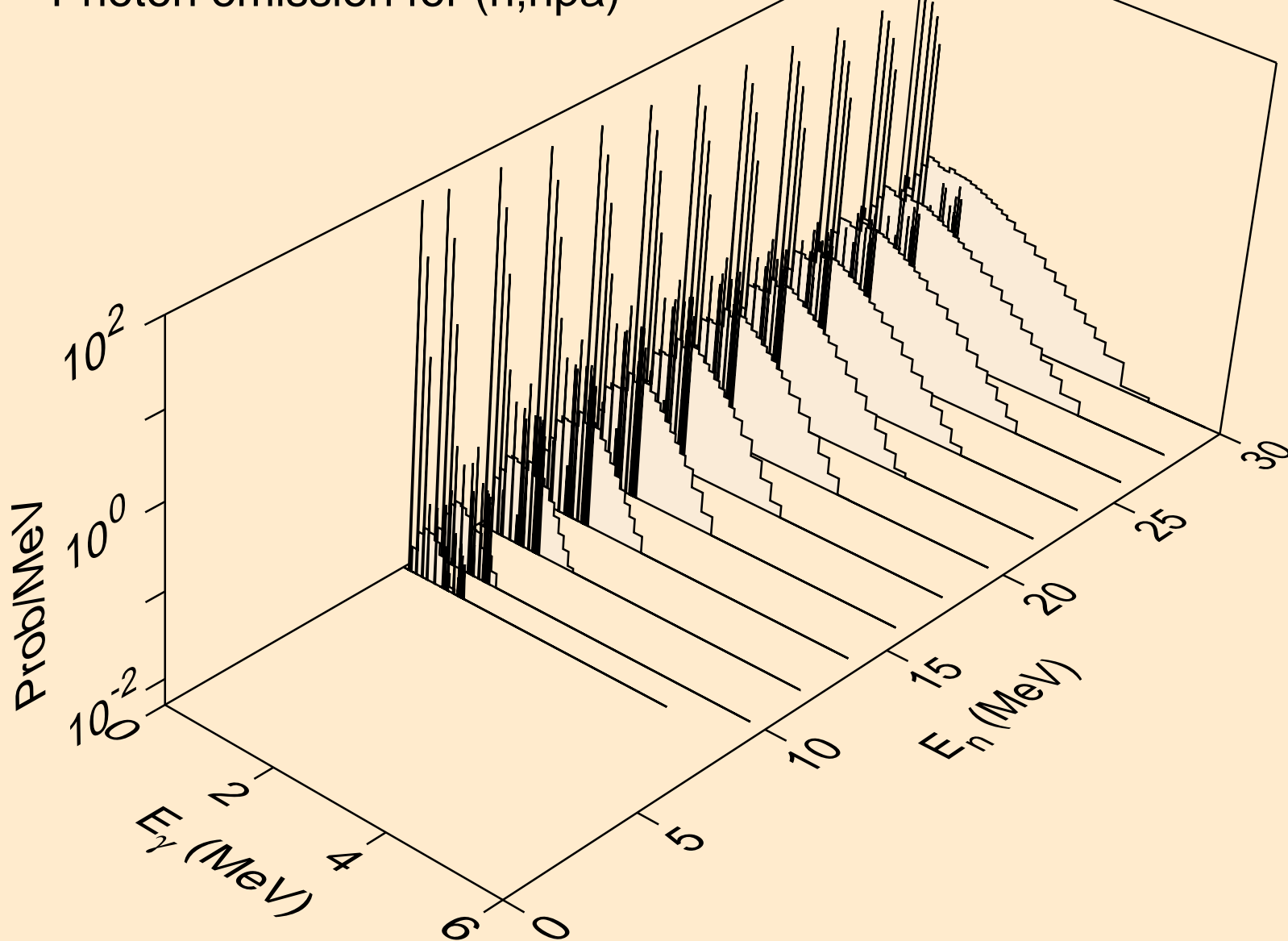
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Photon emission for (n,3np)



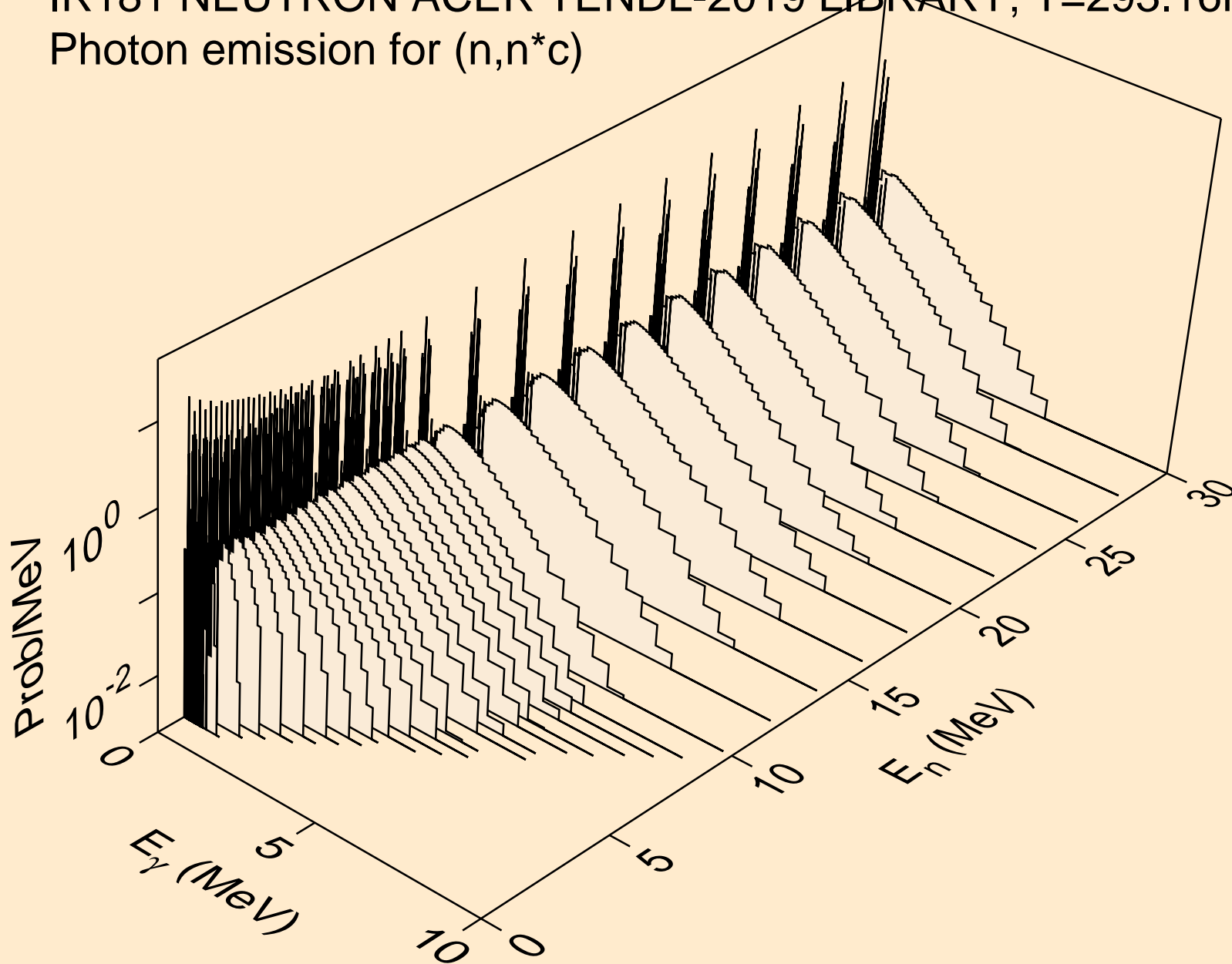
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Photon emission for (n,2np)



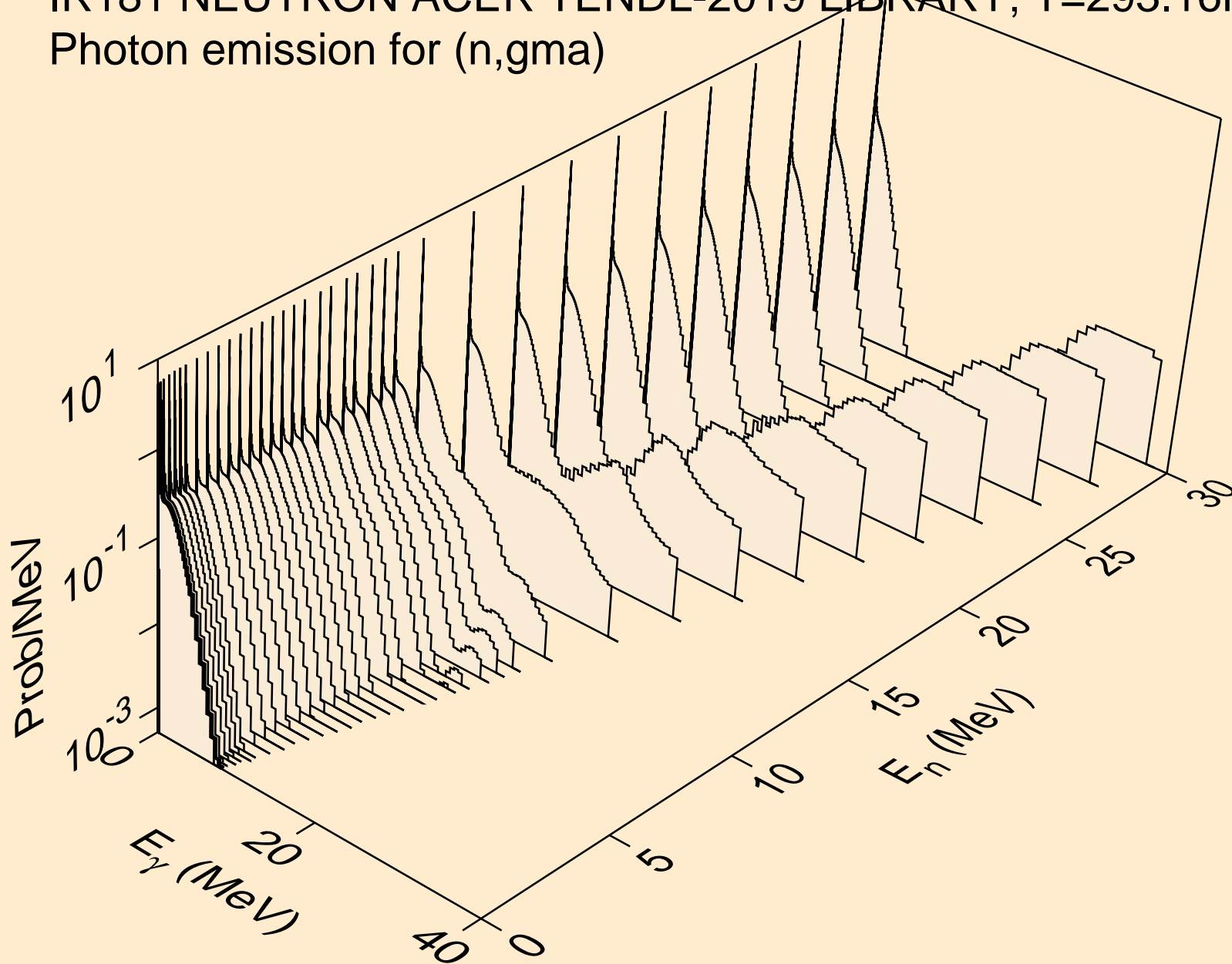
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Photon emission for (n,npa)



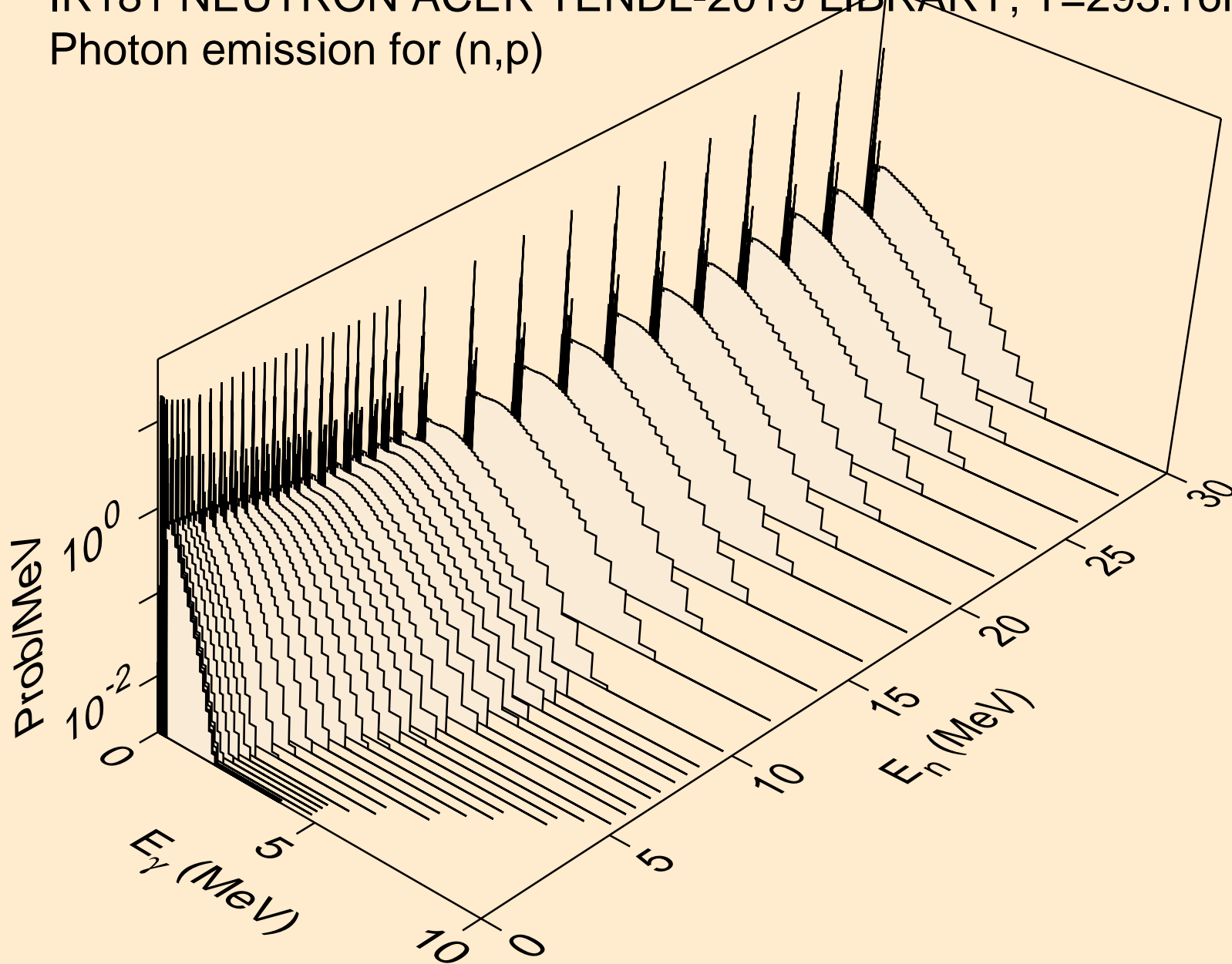
IR181 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,n\*c)



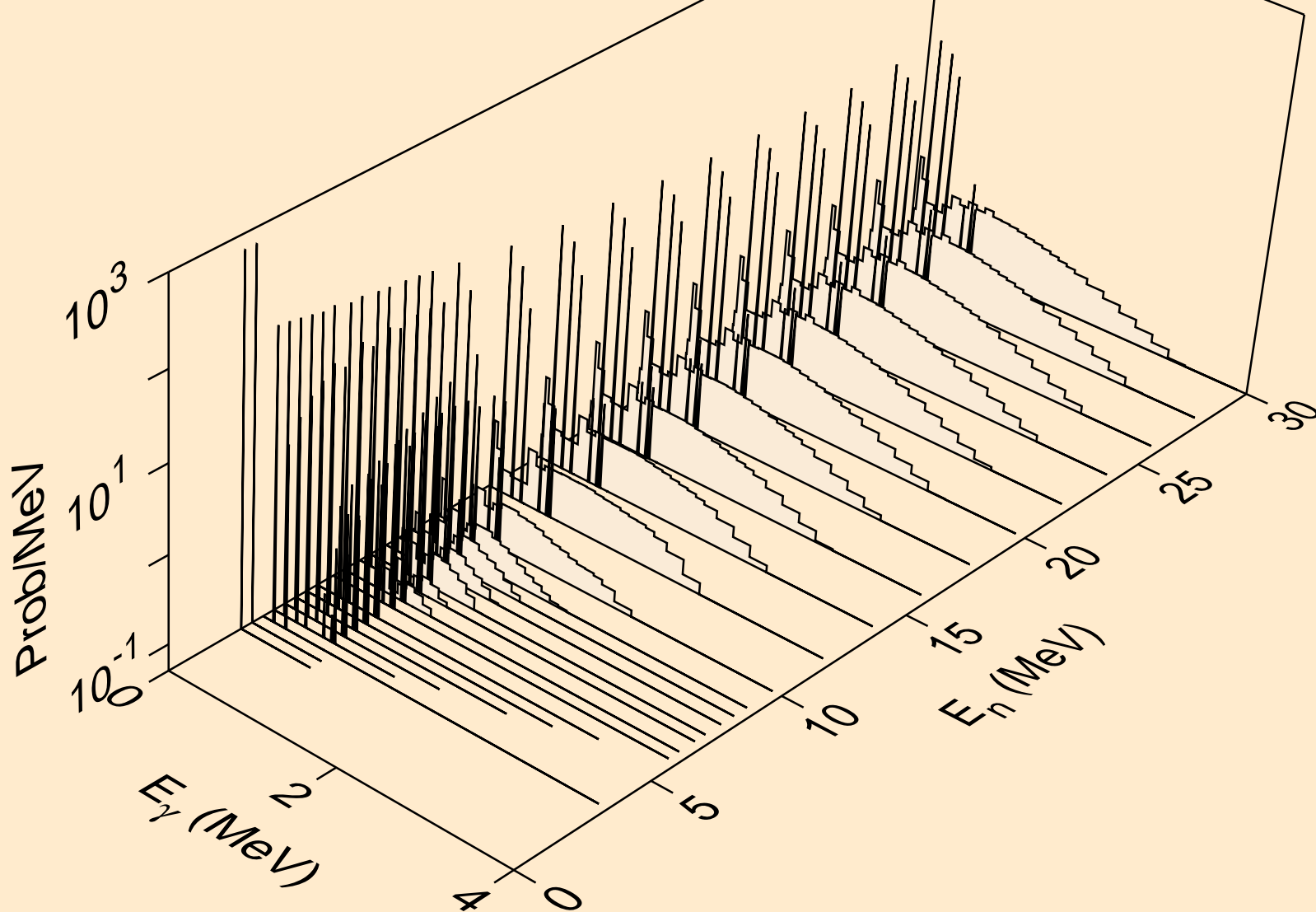
IR181 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,gma)



IR181 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,p)

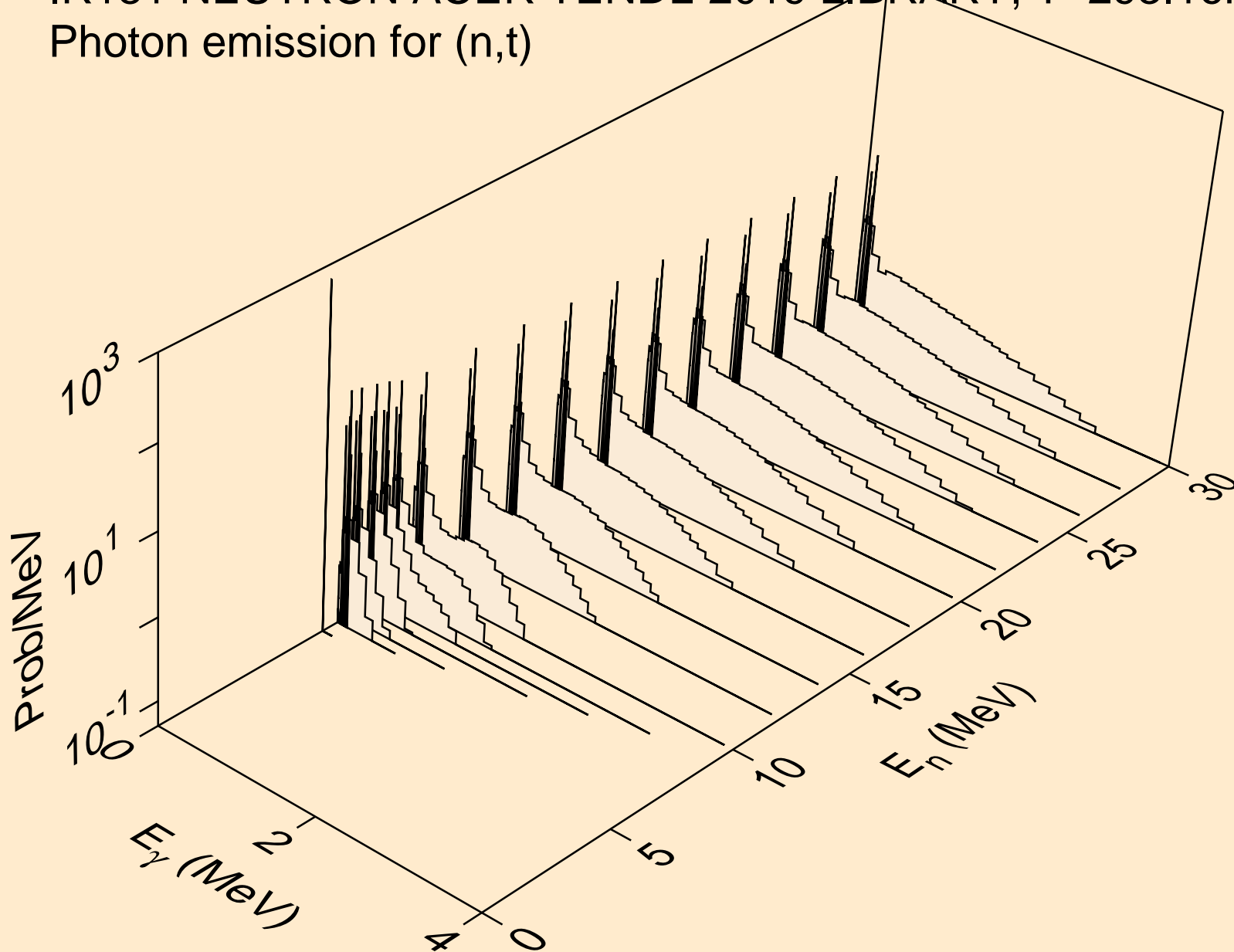


IR181 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,d)

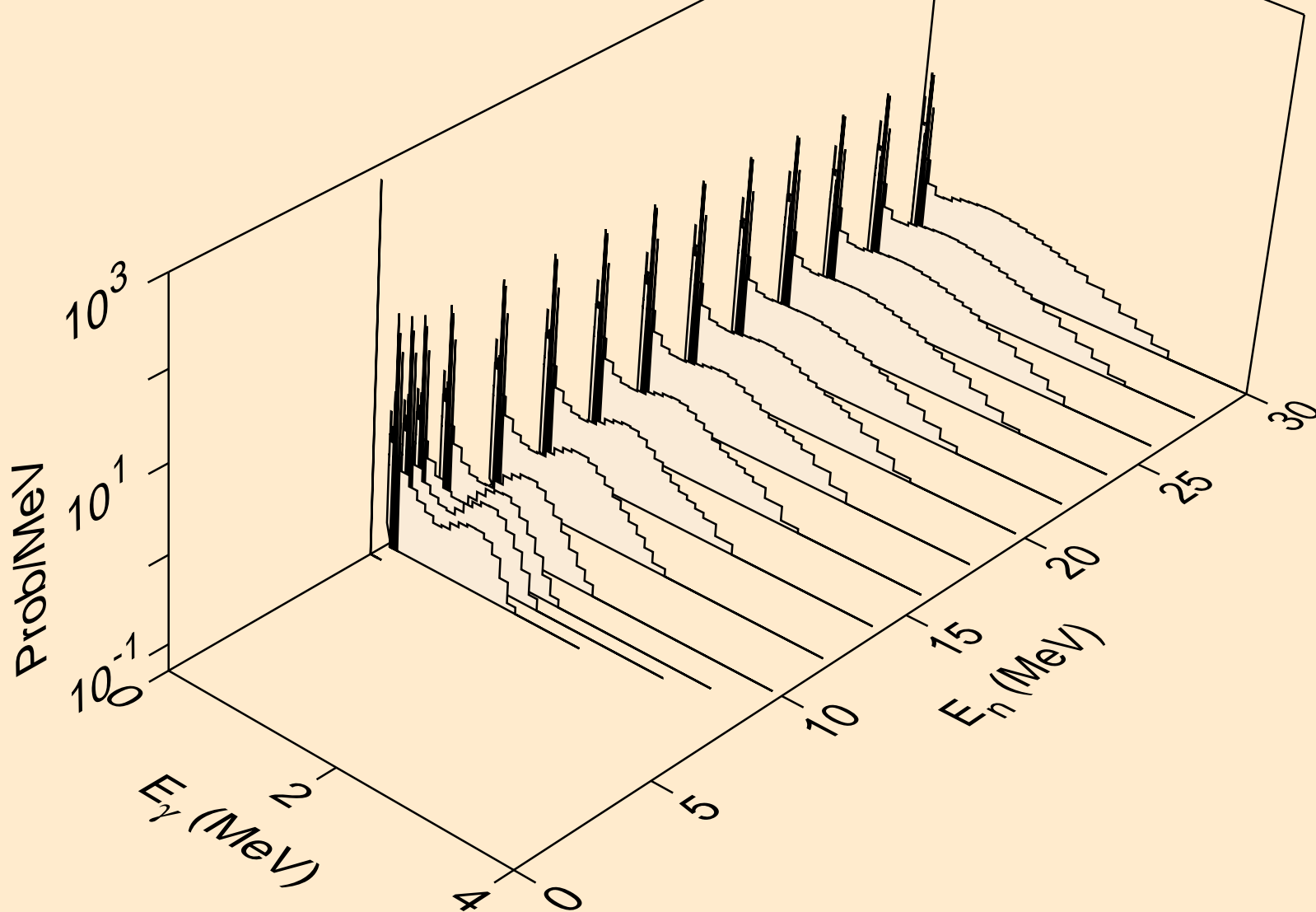




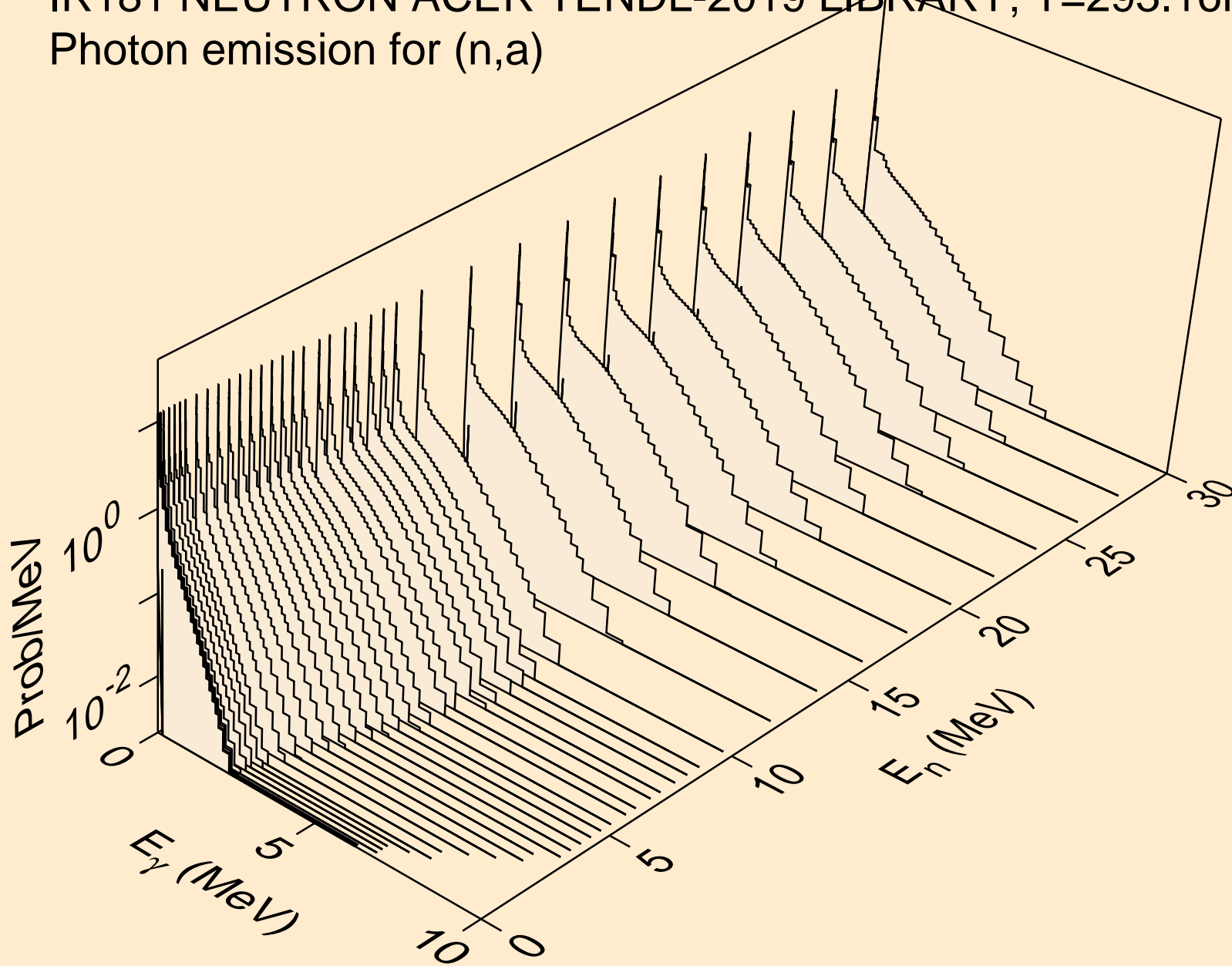
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Photon emission for (n,t)



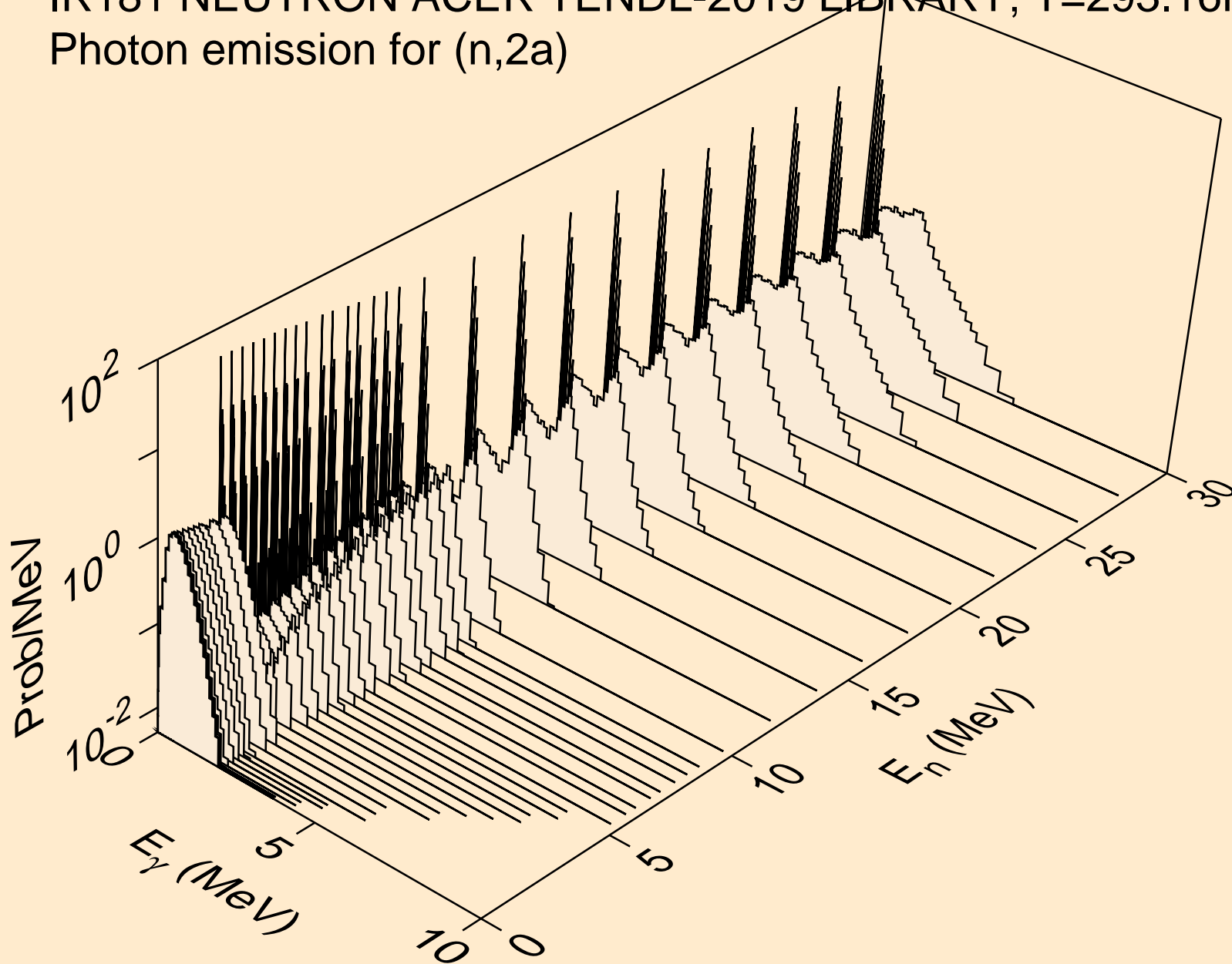
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Photon emission for (n,he3)



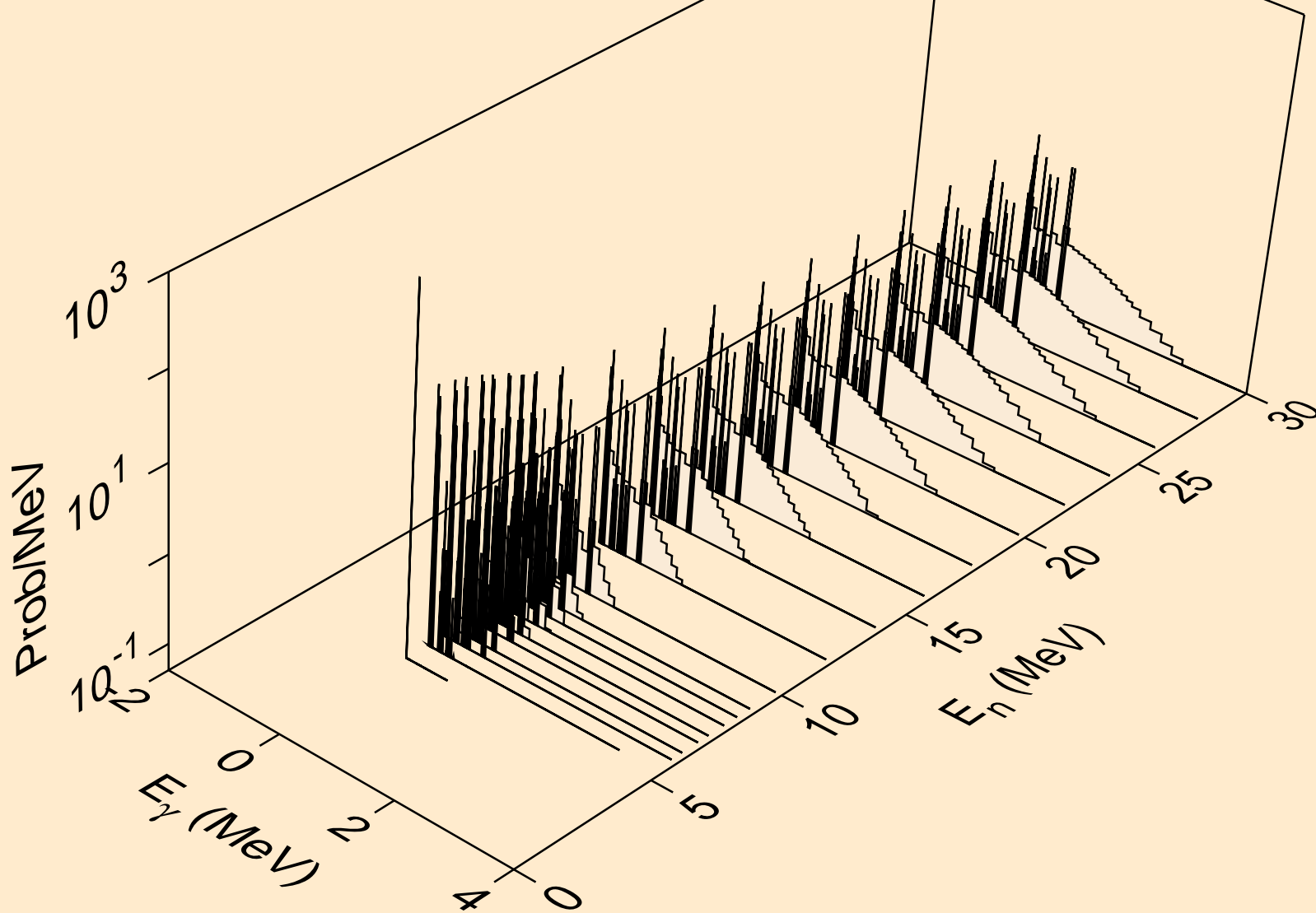
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Photon emission for (n,a)



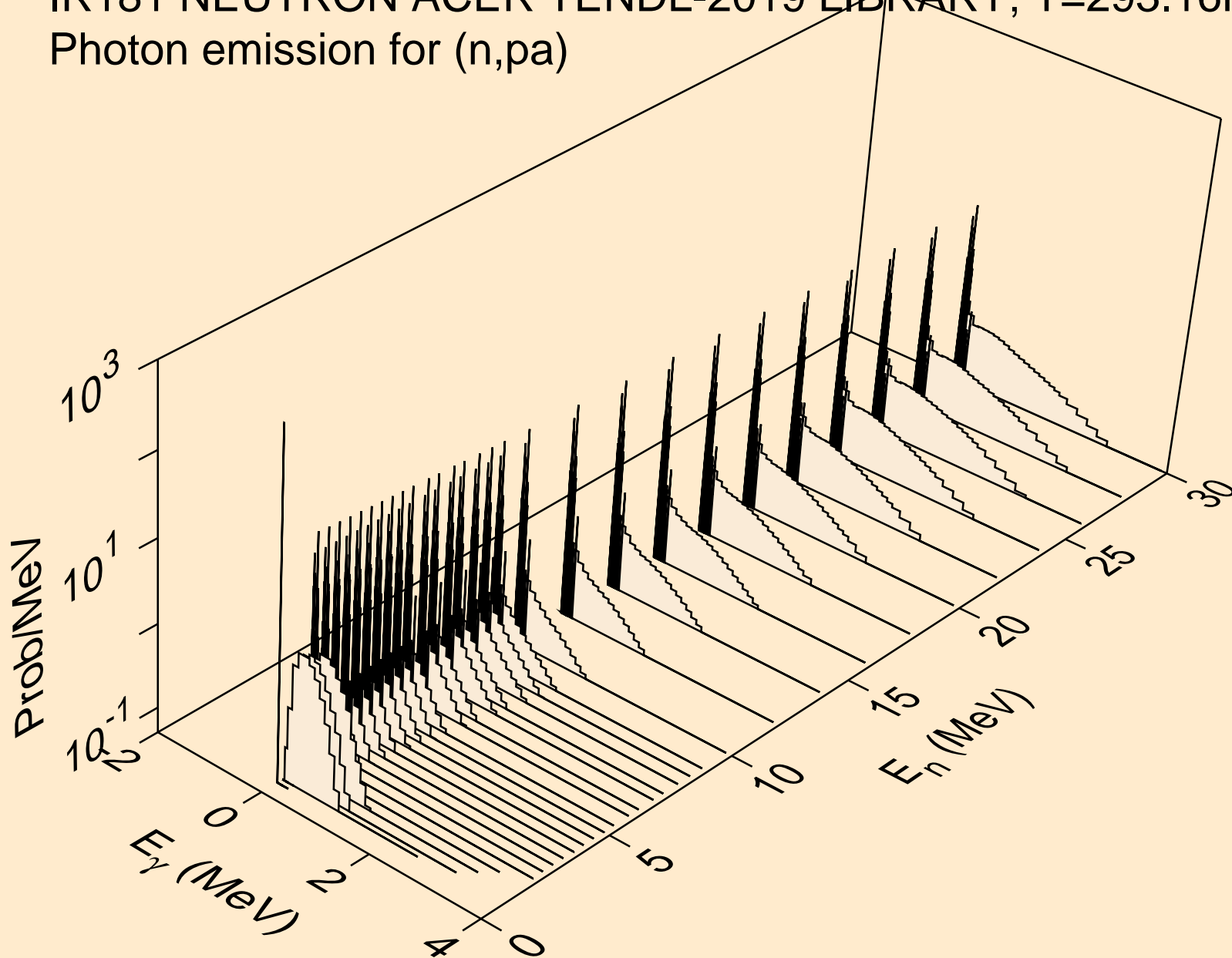
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Photon emission for (n,2a)



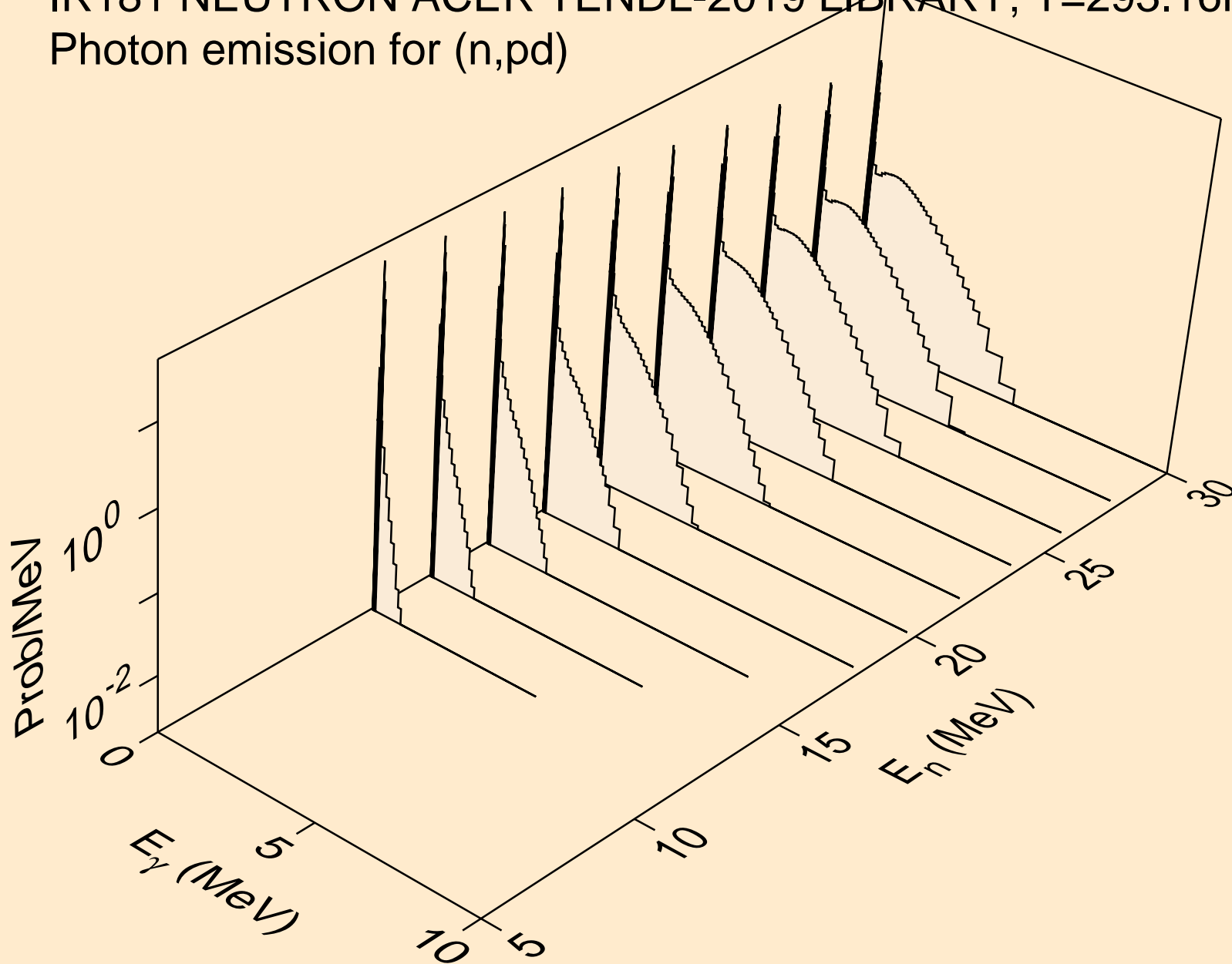
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Photon emission for (n,2p)



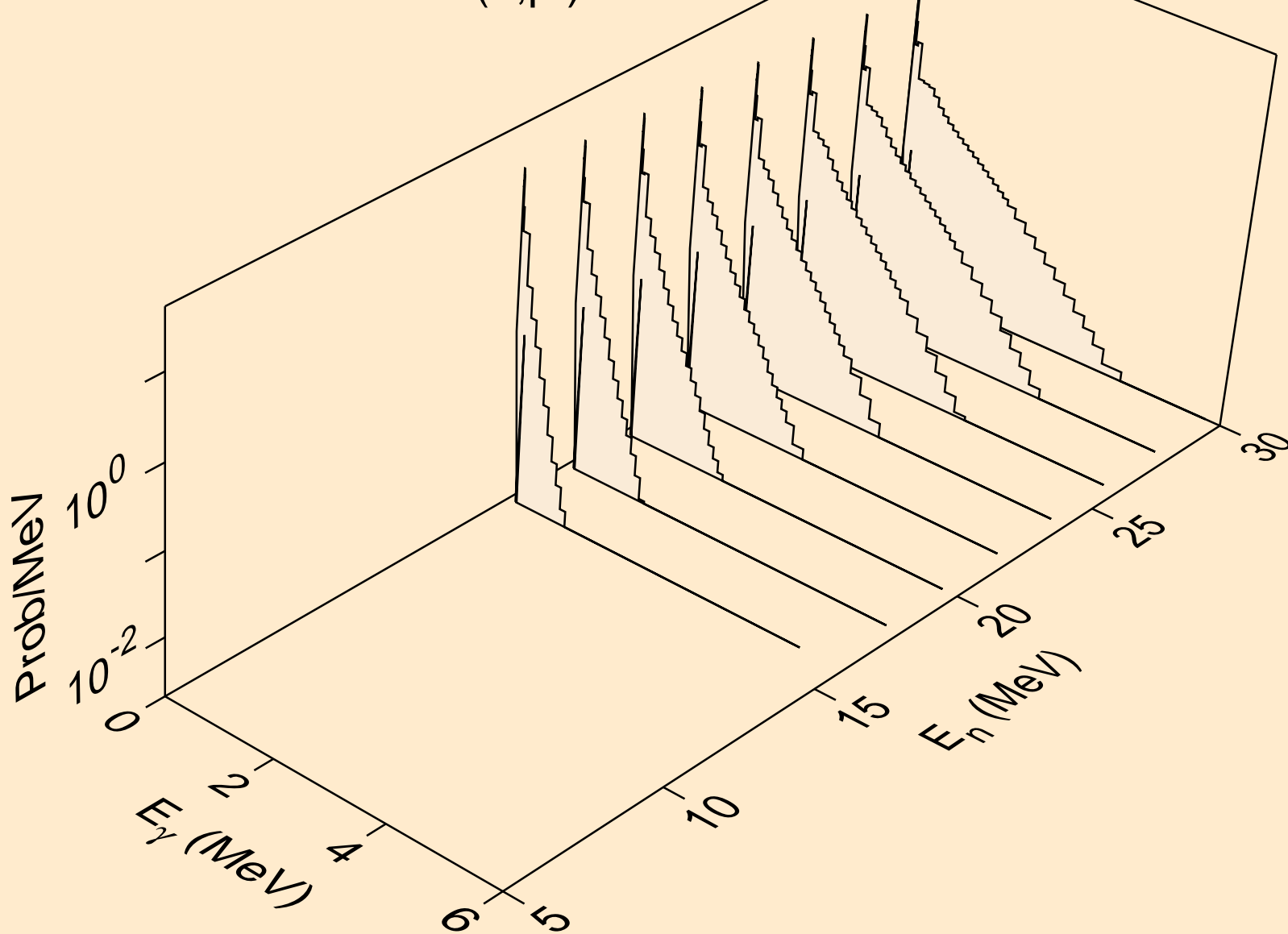
IR181 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,p $\alpha$ )



IR181 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,pd)

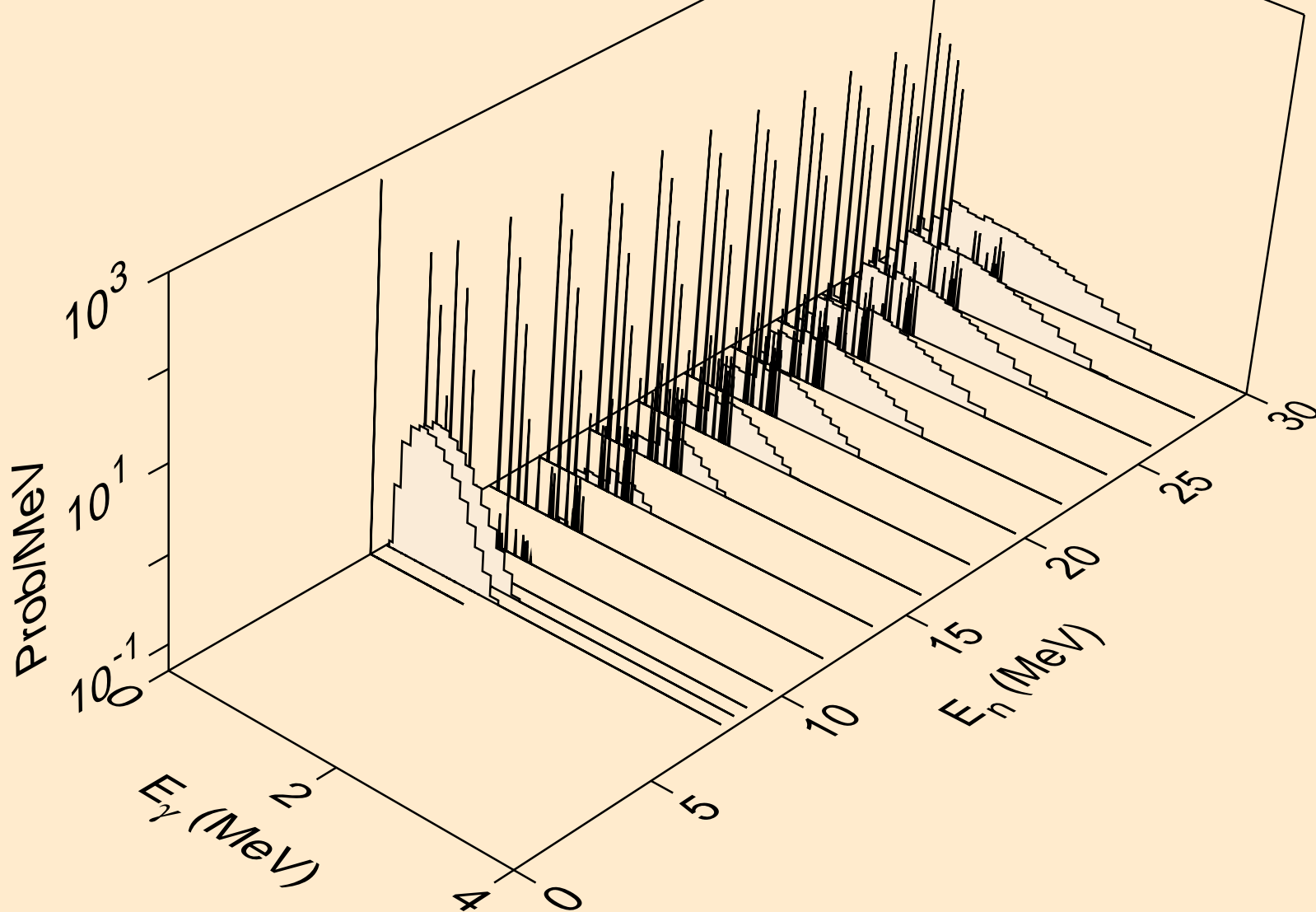


IR181 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,pt)

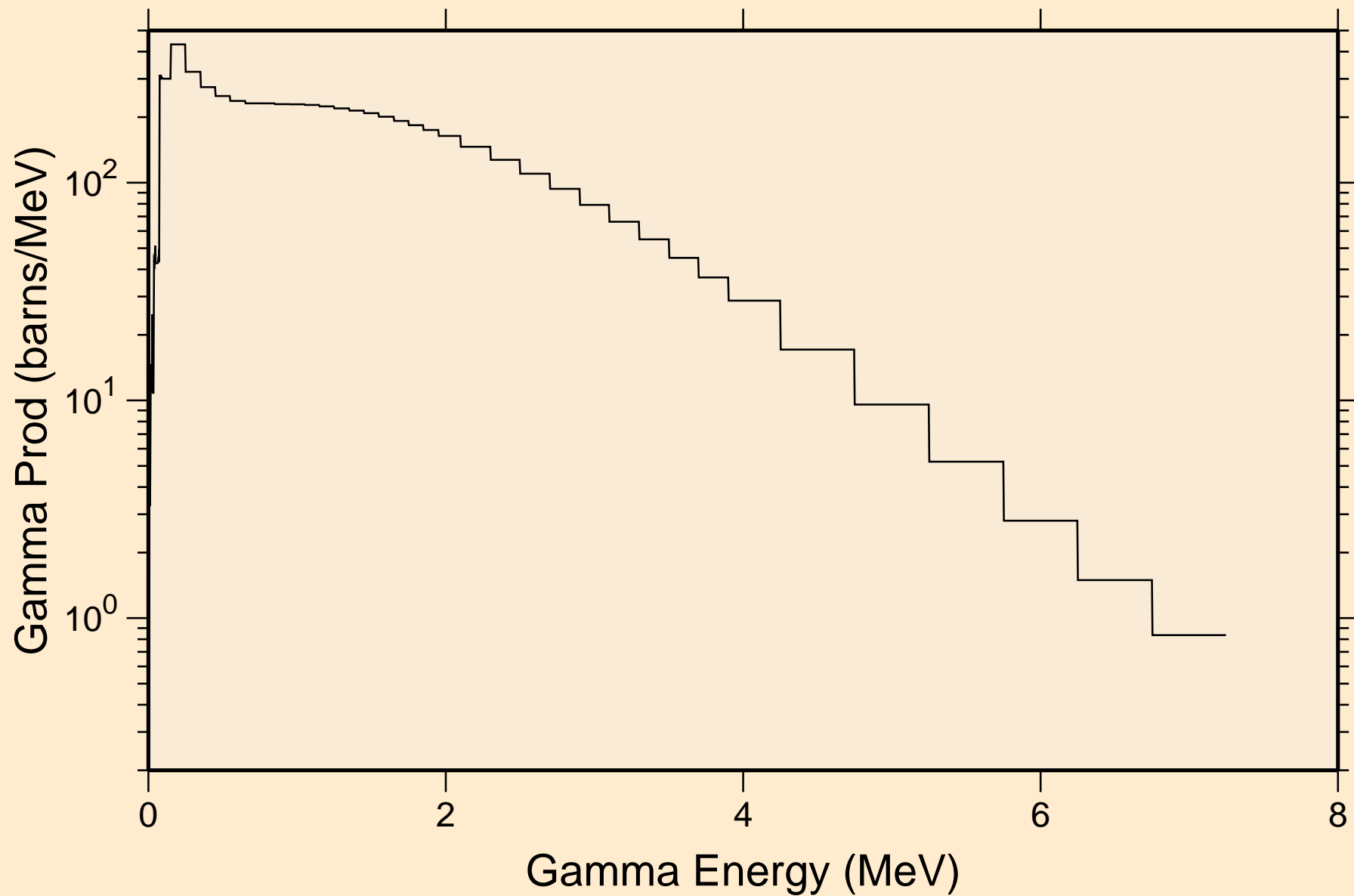




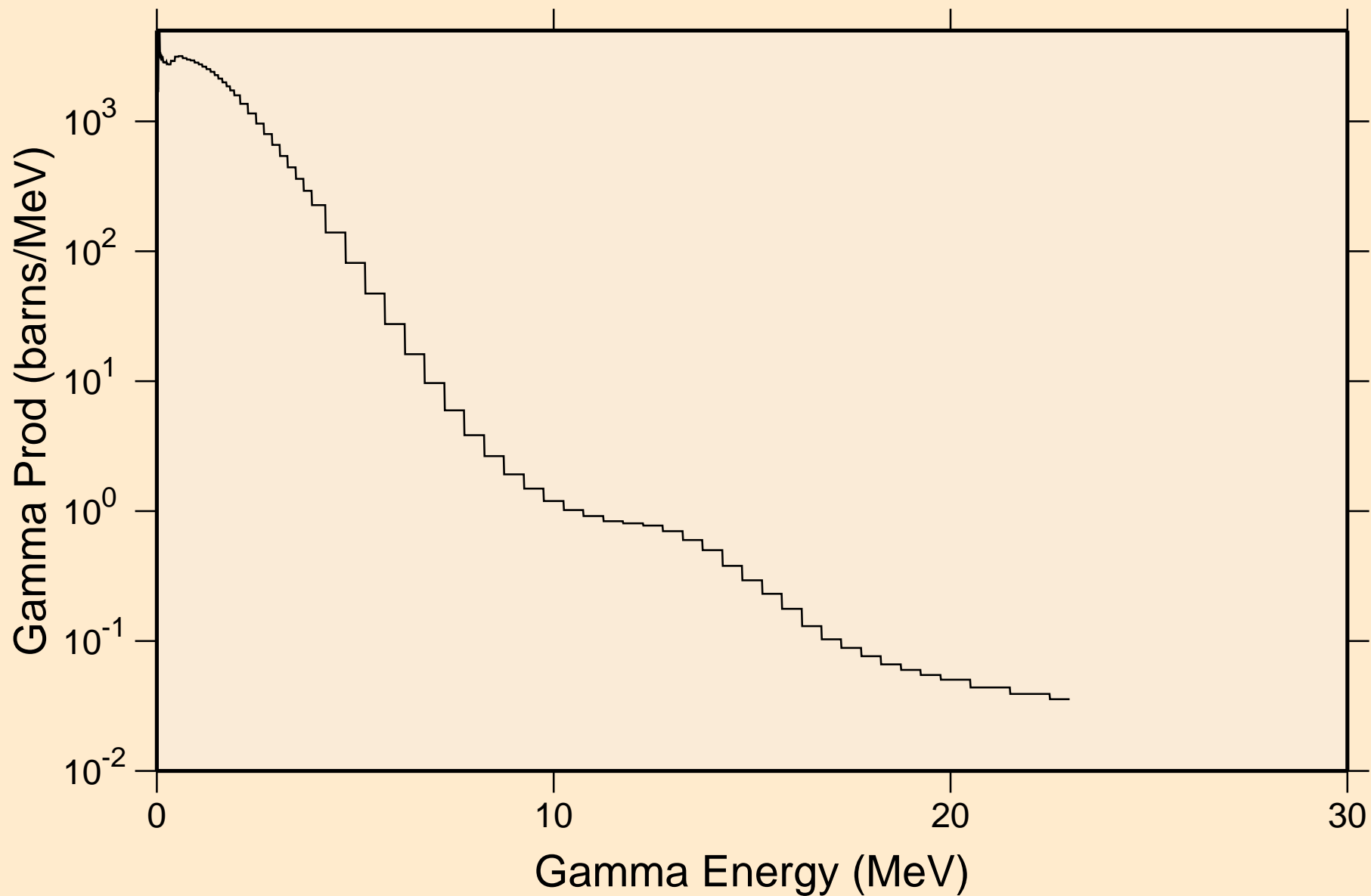
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Photon emission for (n,da)



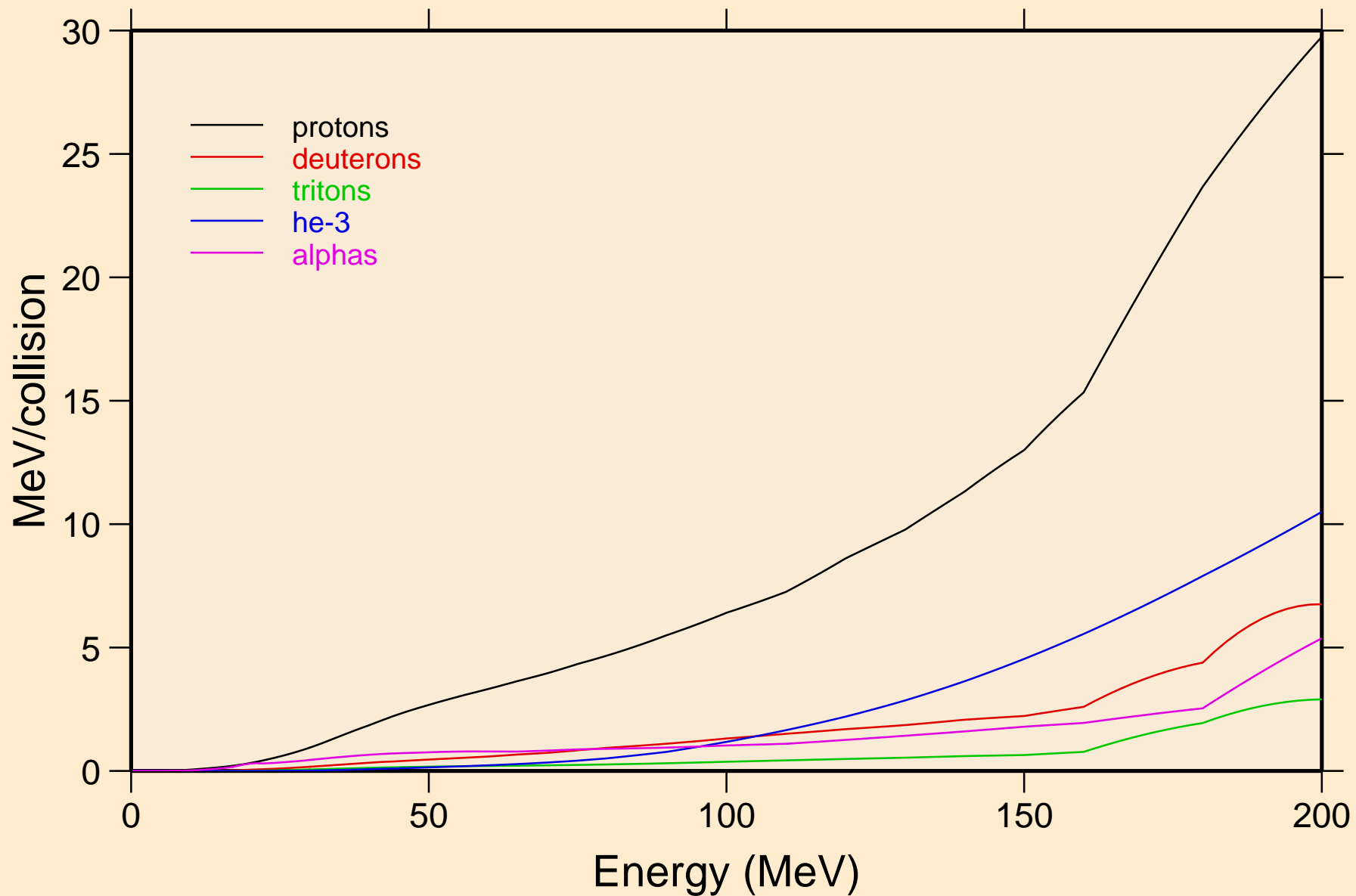
IR181 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
thermal capture photon spectrum



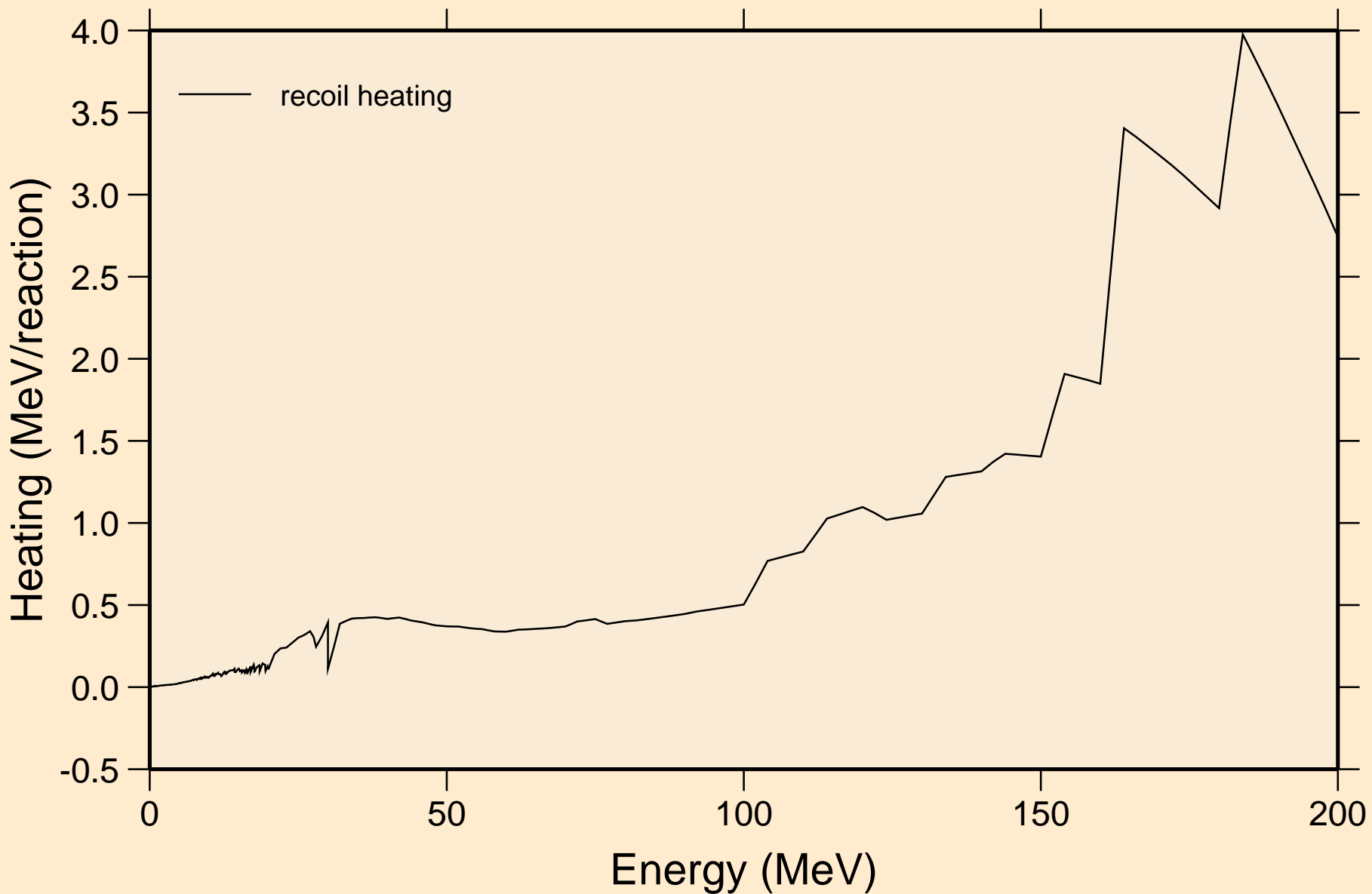
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14 MeV photon spectrum



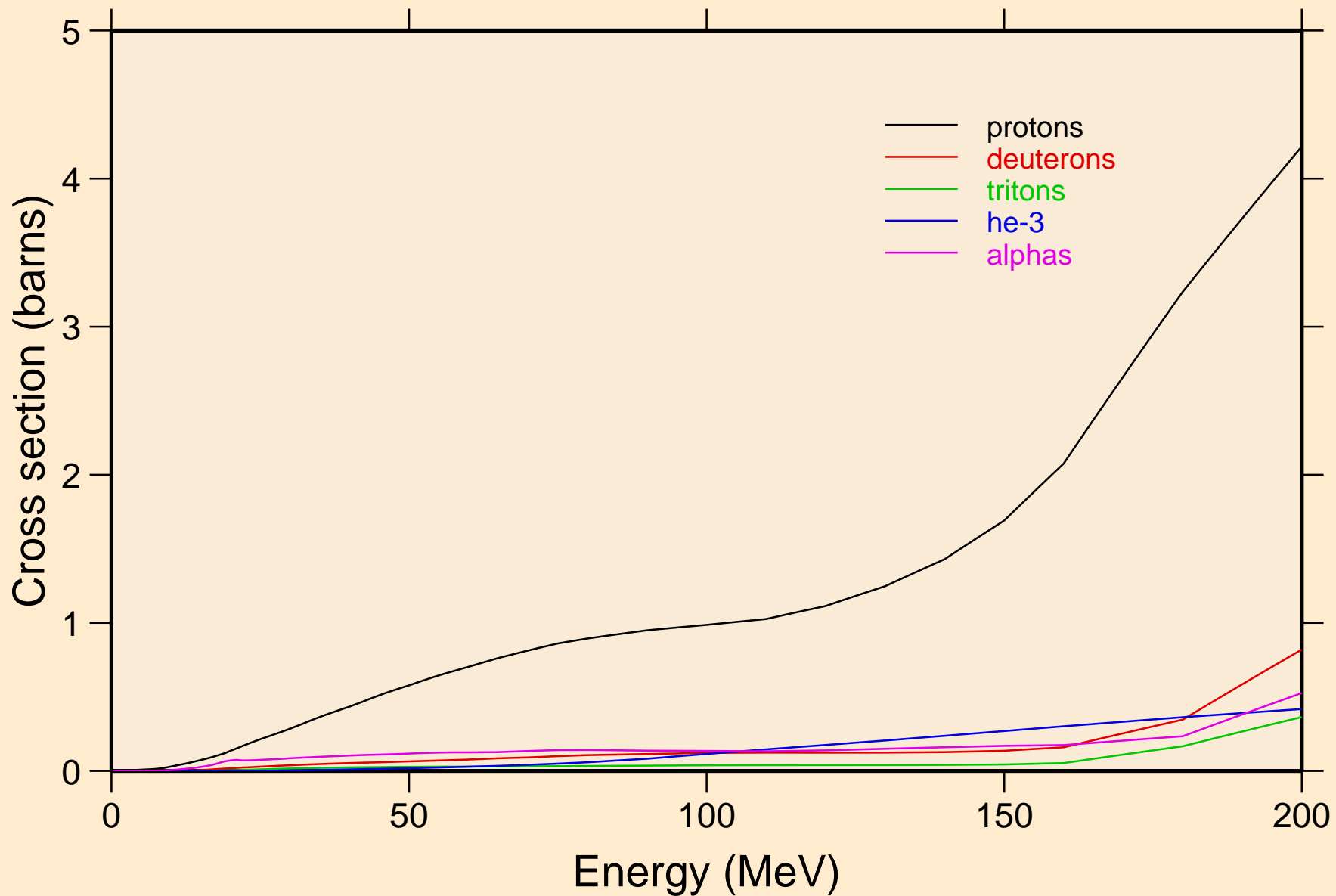
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Particle heating contributions



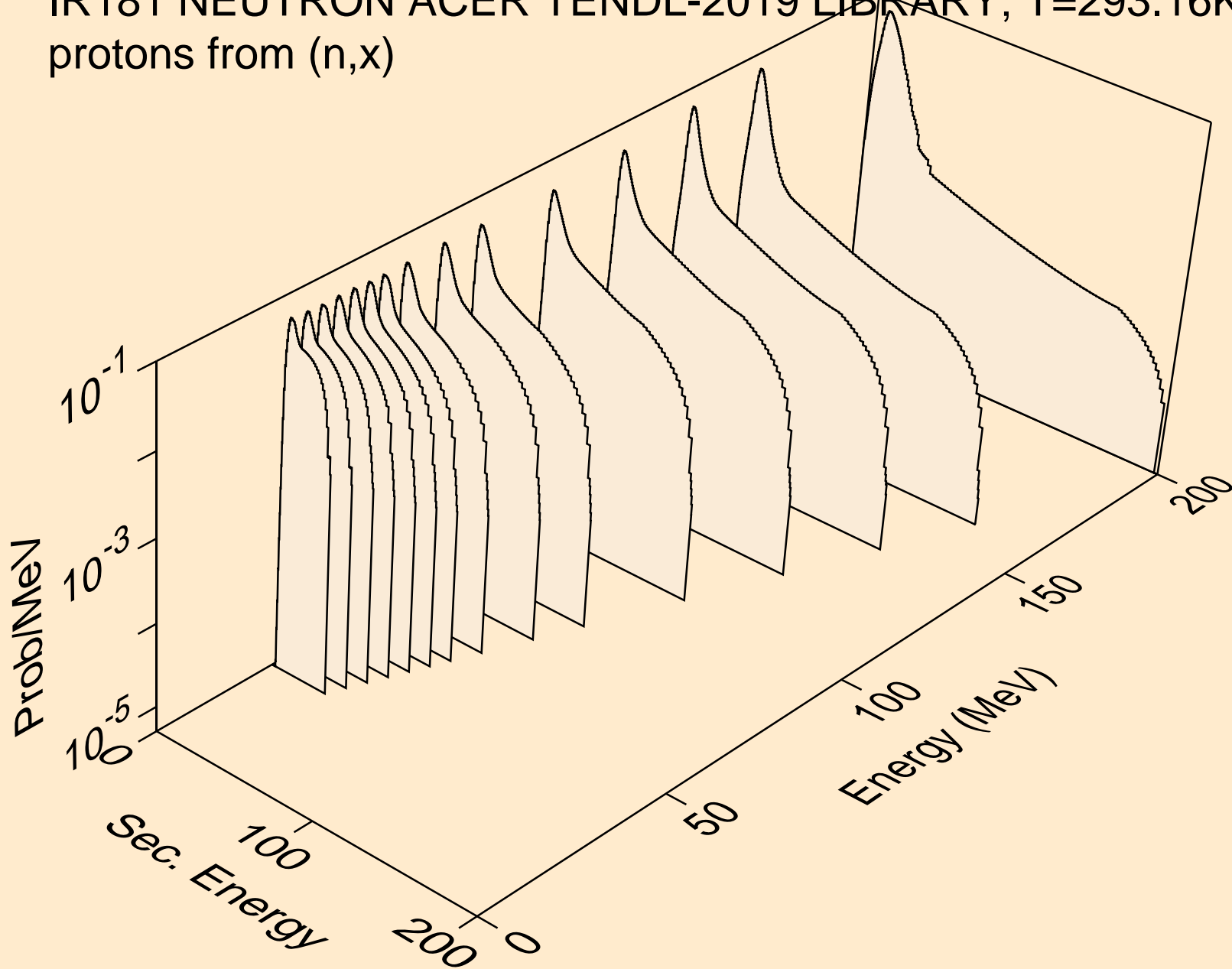
IR181 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Recoil Heating



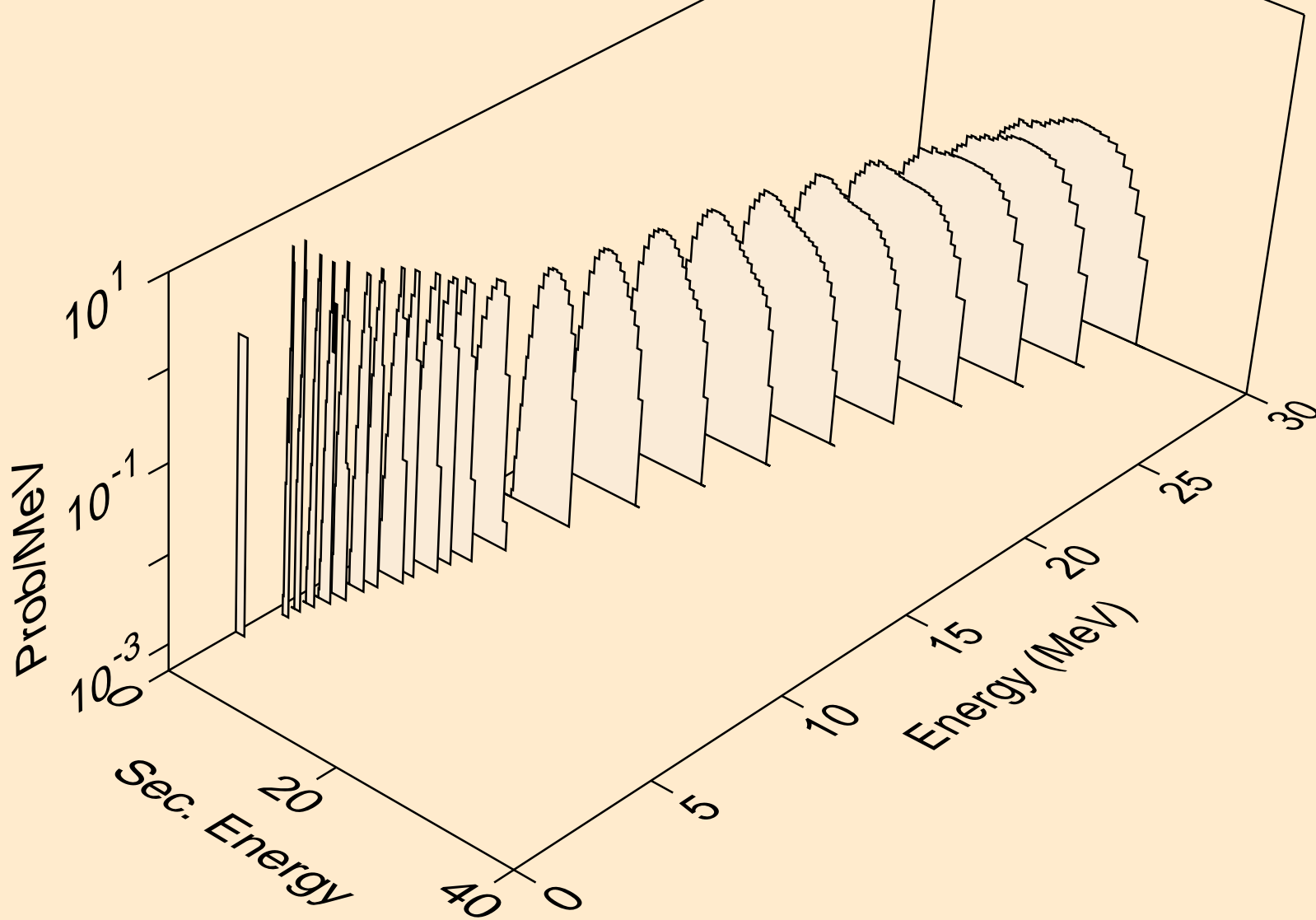
IR181 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Particle production cross sections



IR181 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
protons from (n,x)

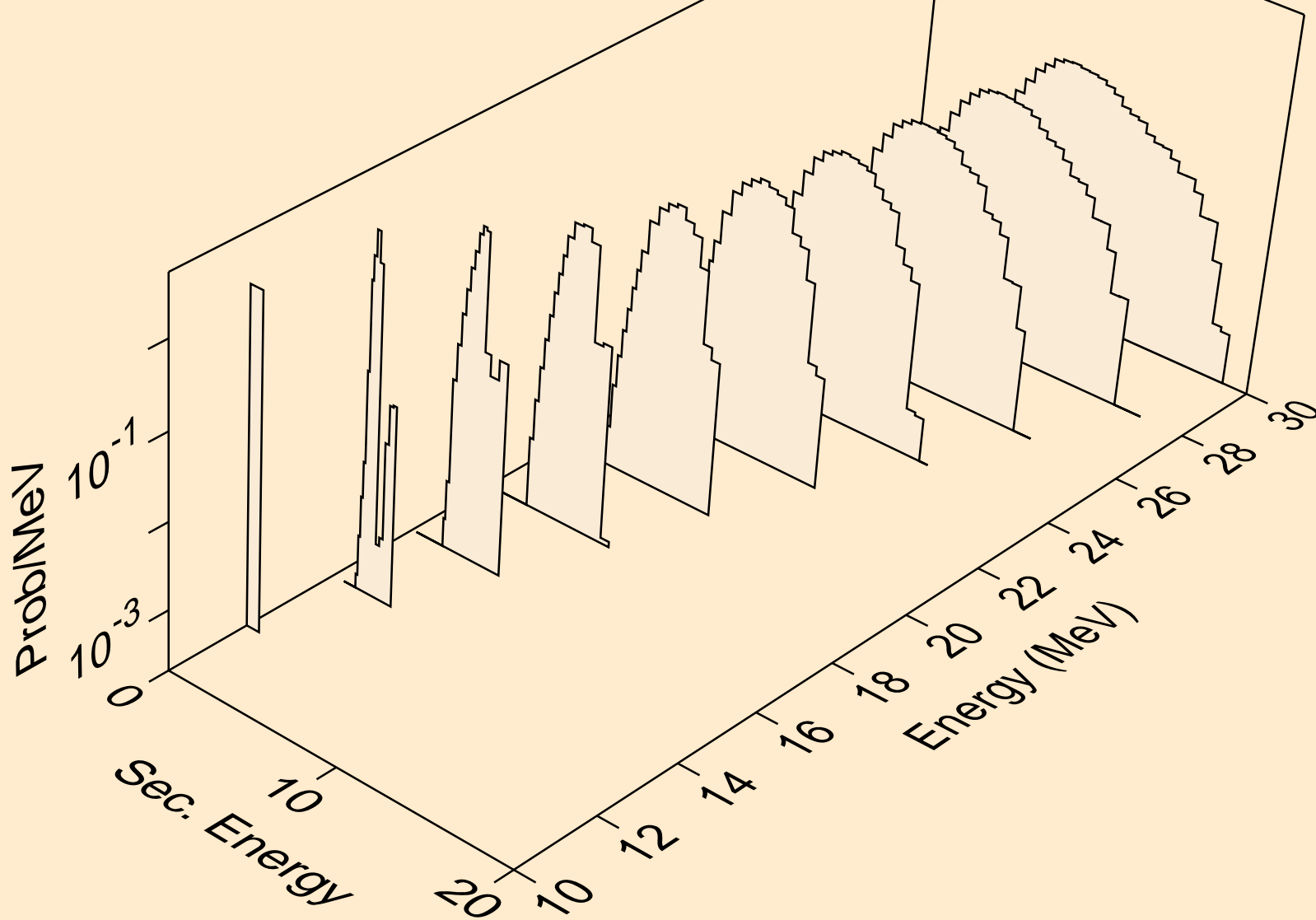


IR181 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
protons from (n,n\*)p

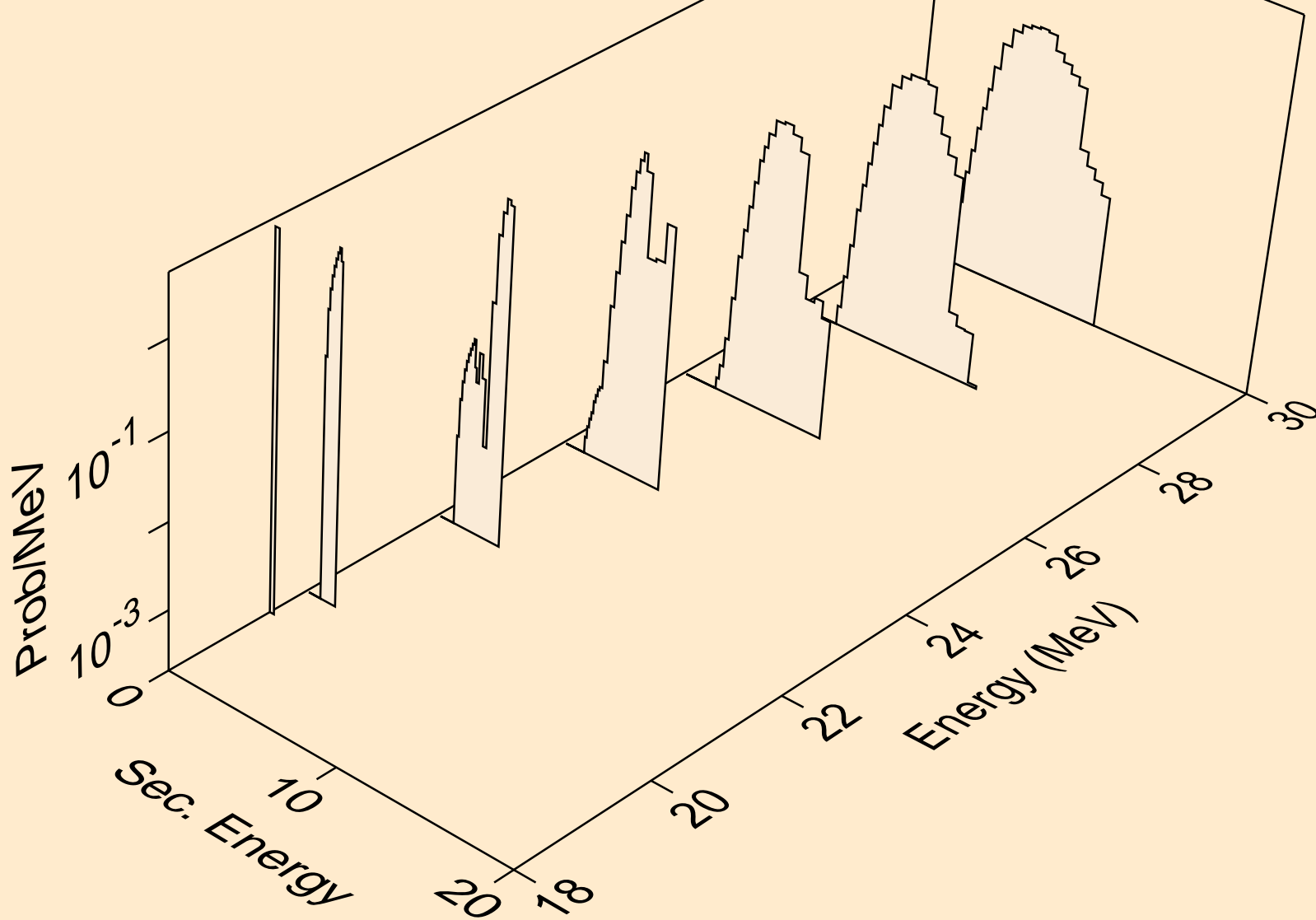




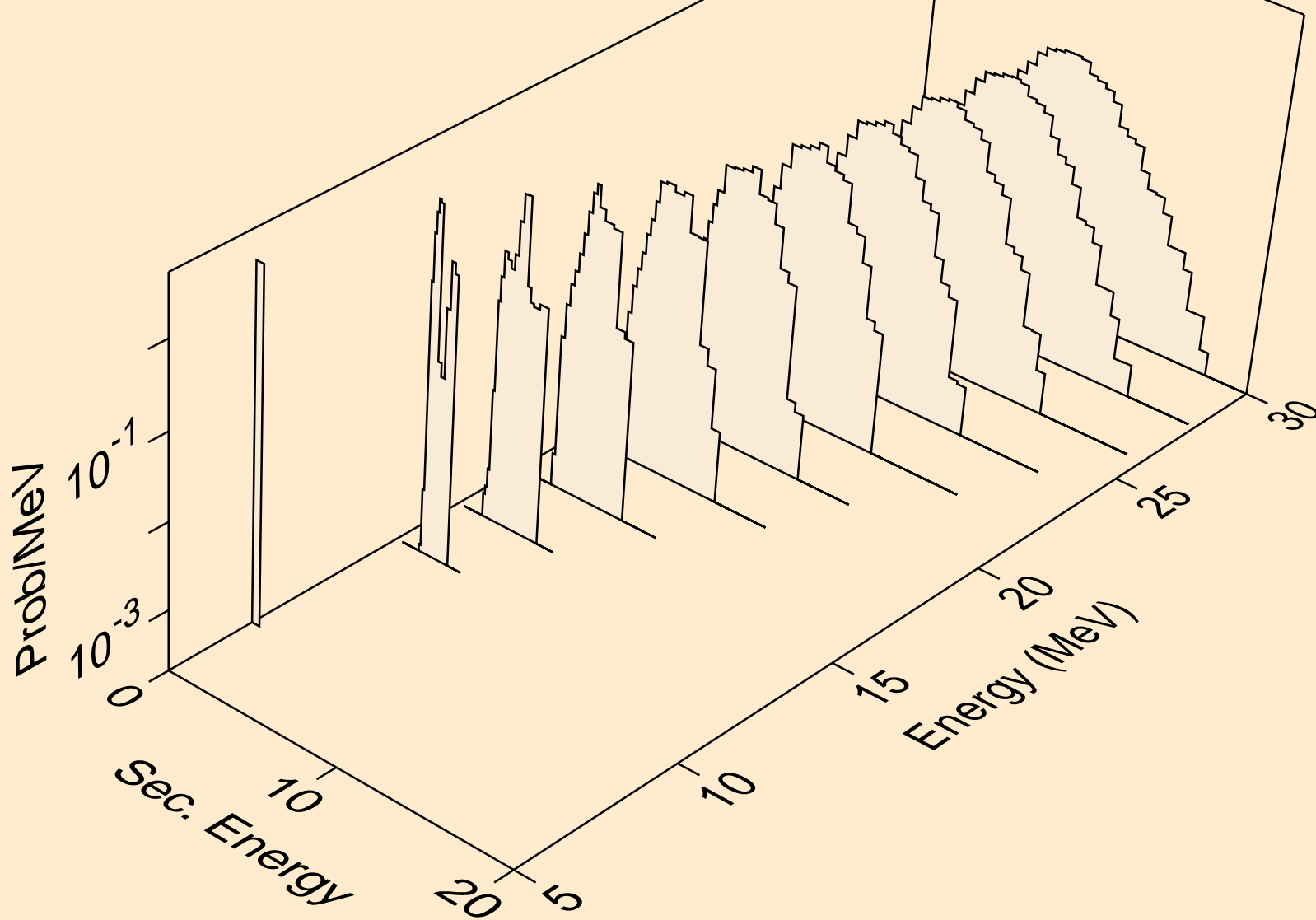
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protons from (n,2np)



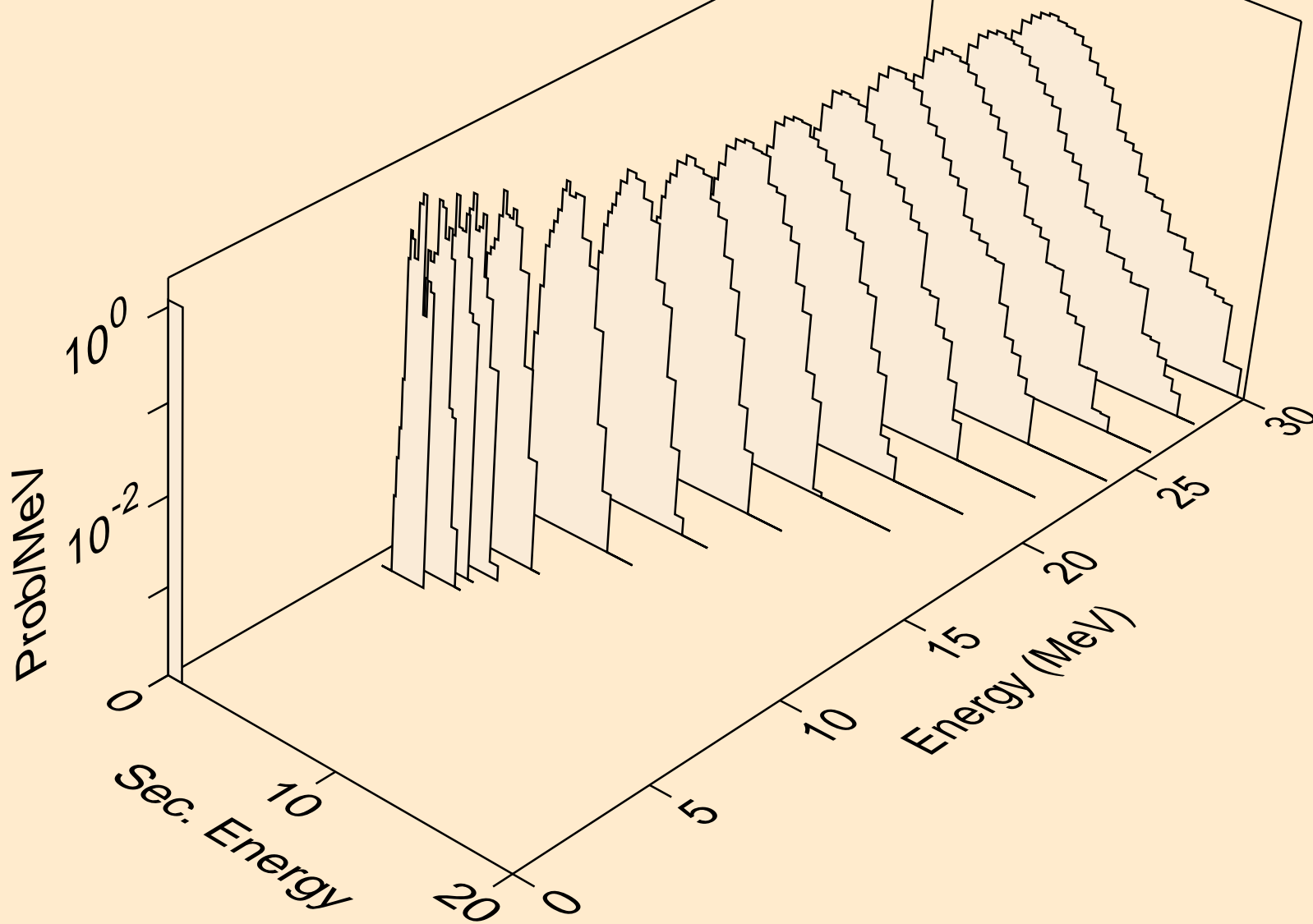
IR181 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
protons from (n,3np)



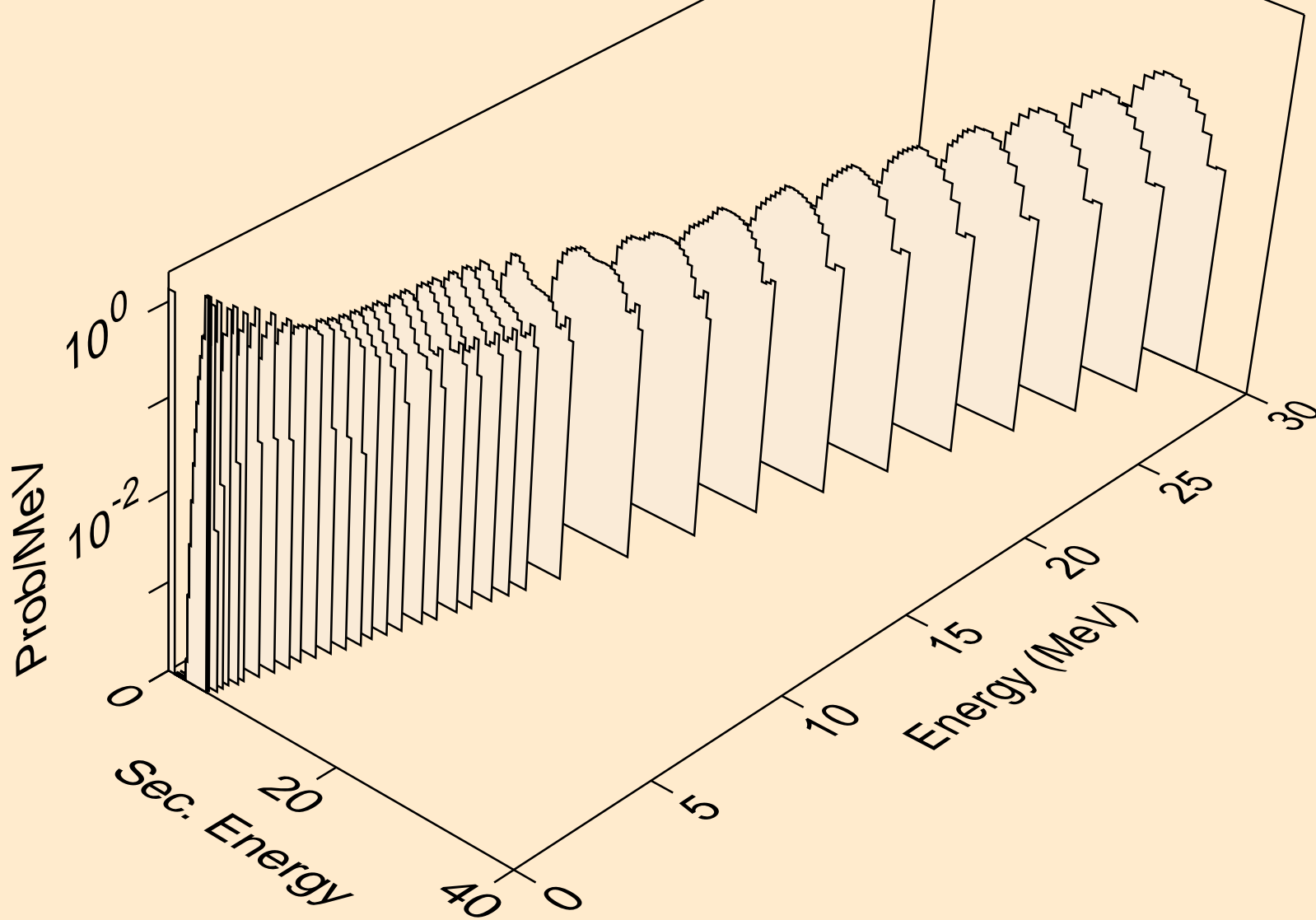
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protons from (n,2np)



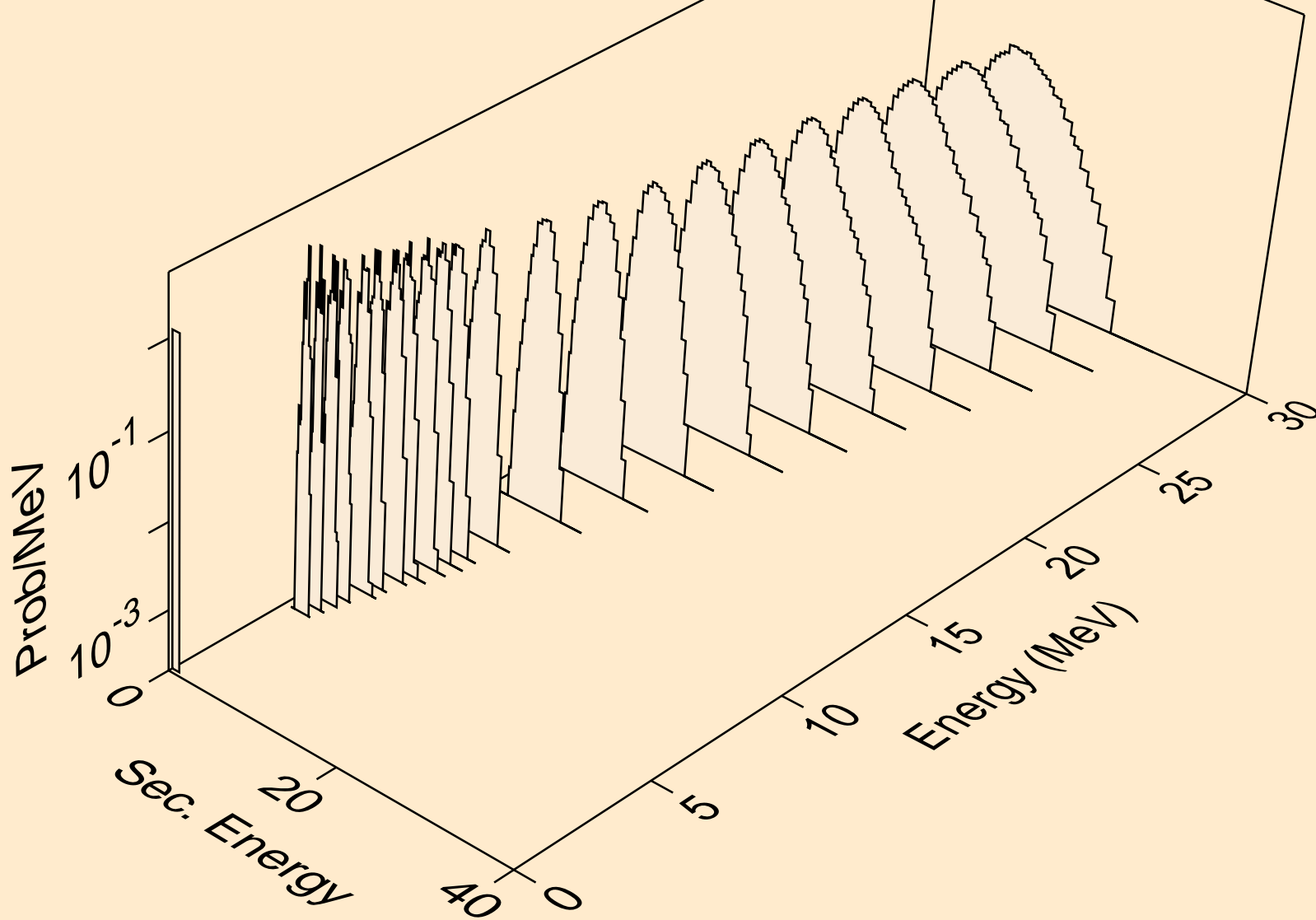
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protons from (n,npa)



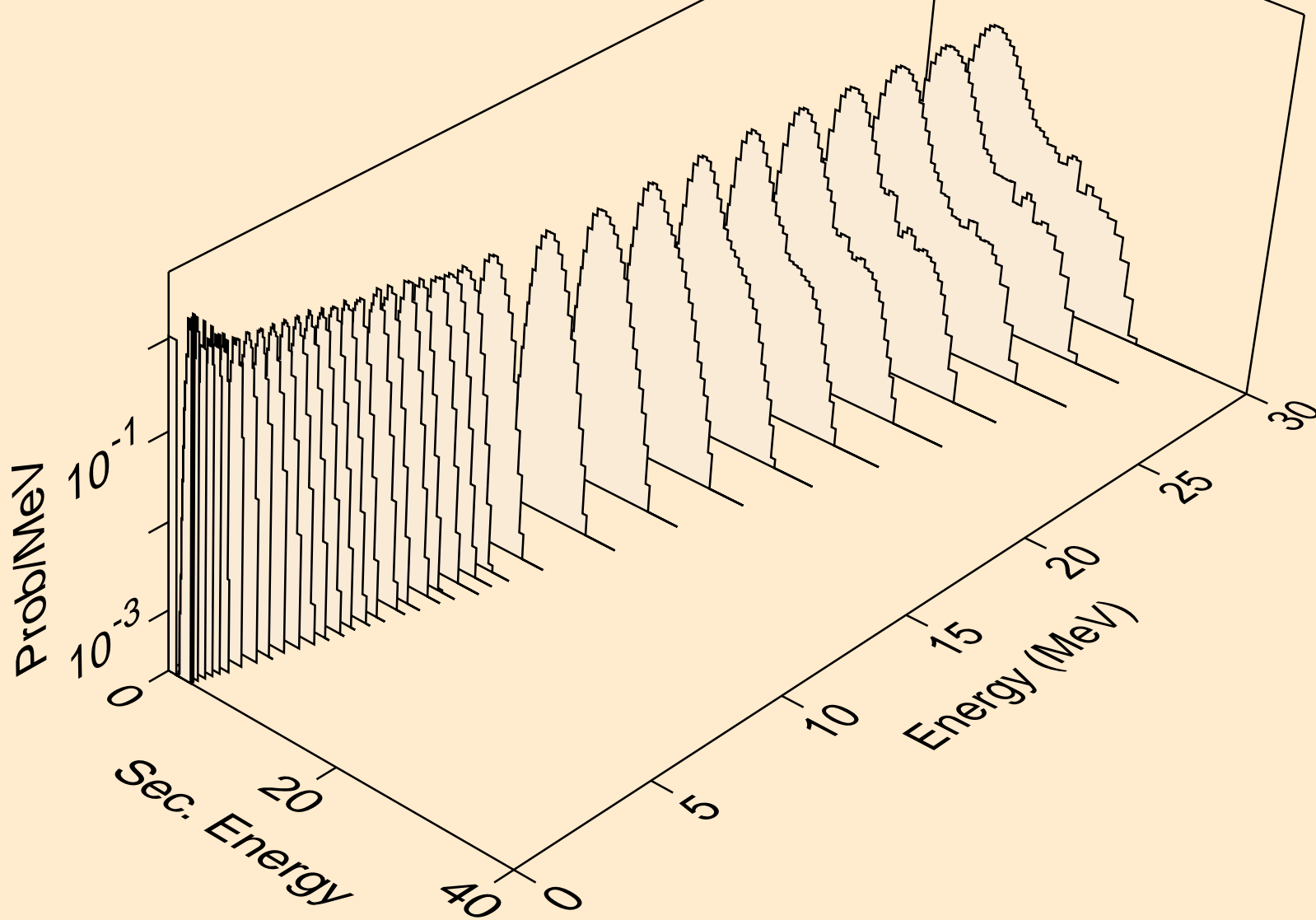
IR181 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
protons from (n,p)



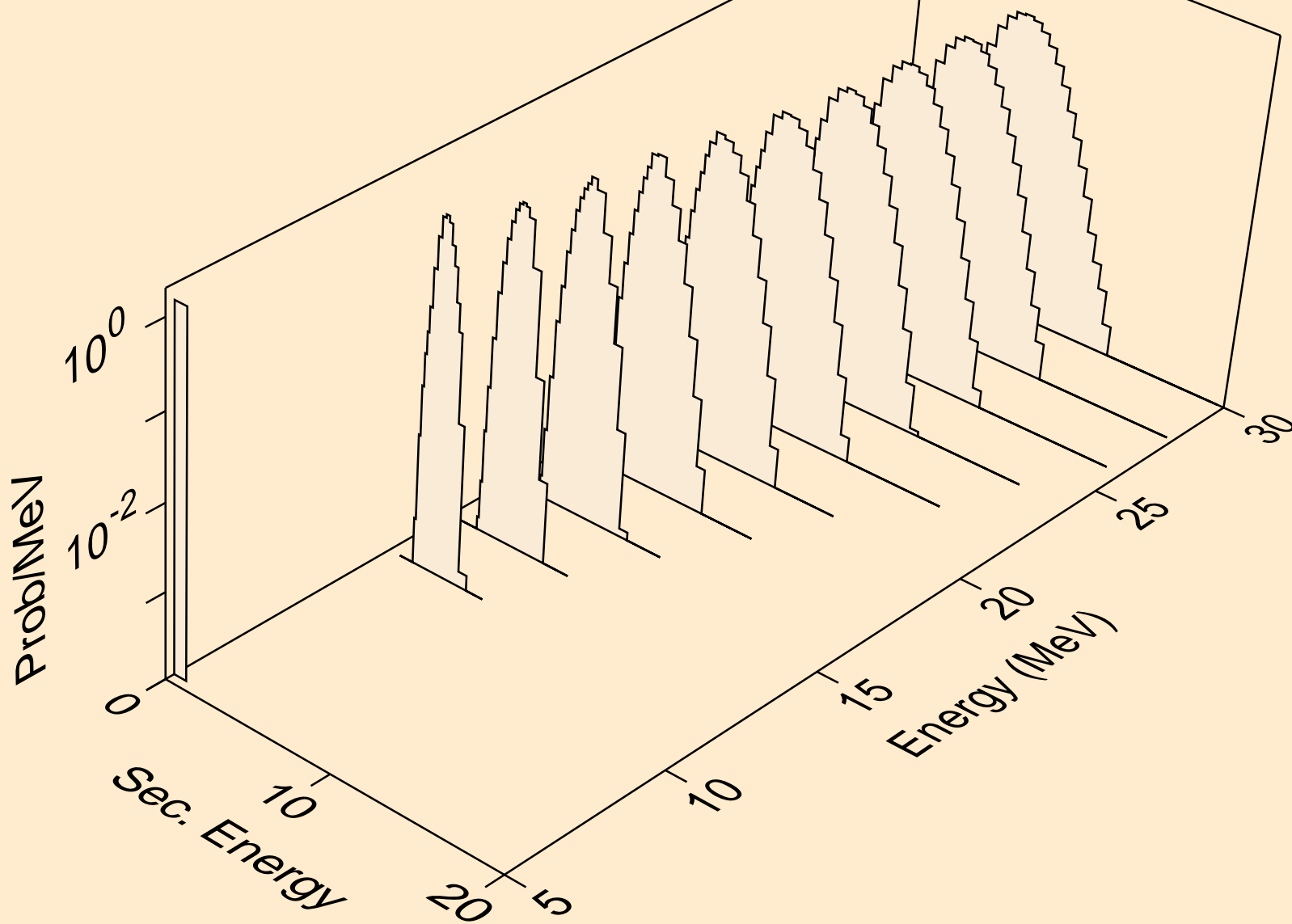
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protons from (n,2p)



IR181 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
protons from (n,p)

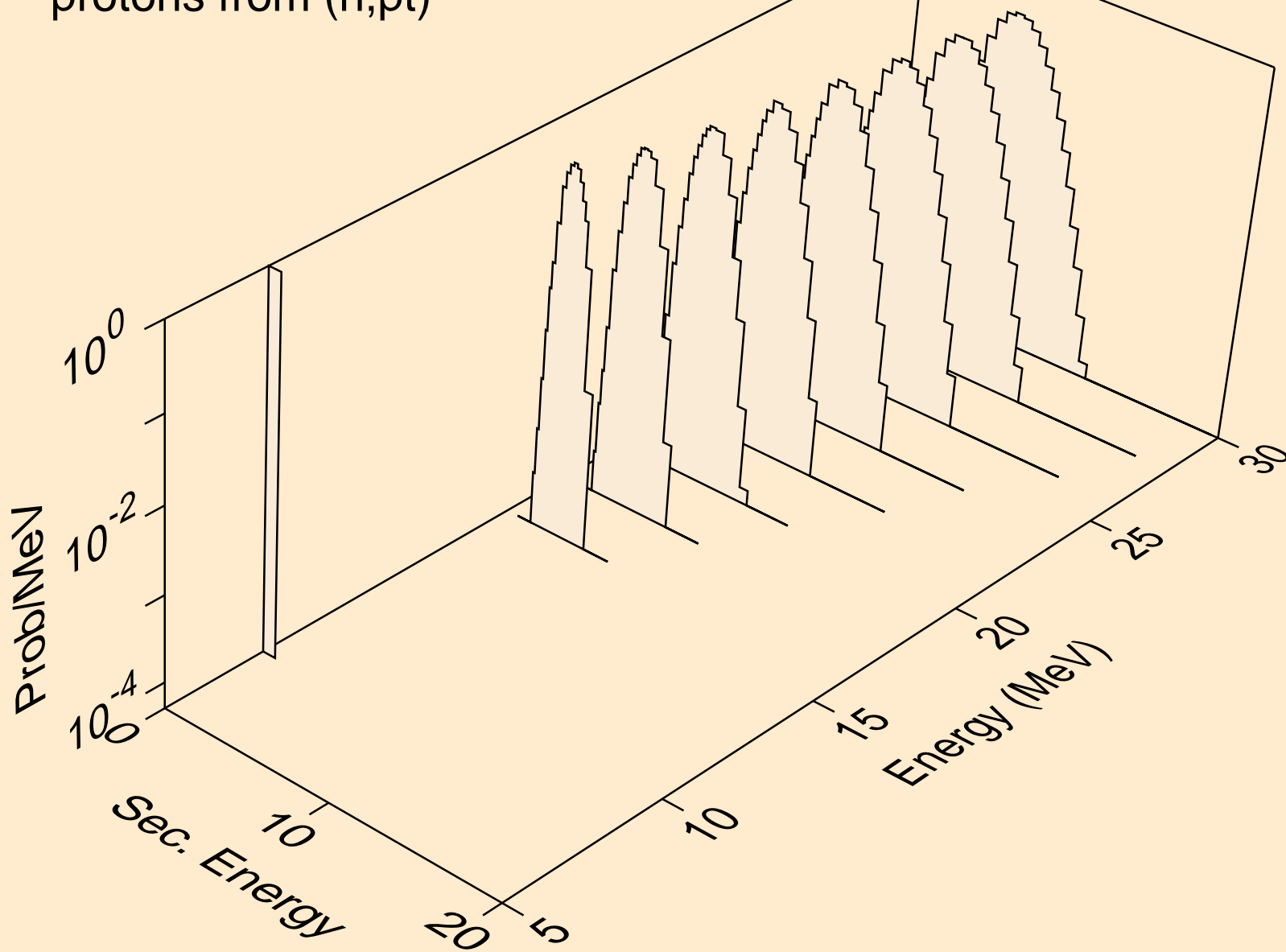


IR181 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
protons from (n,pd)

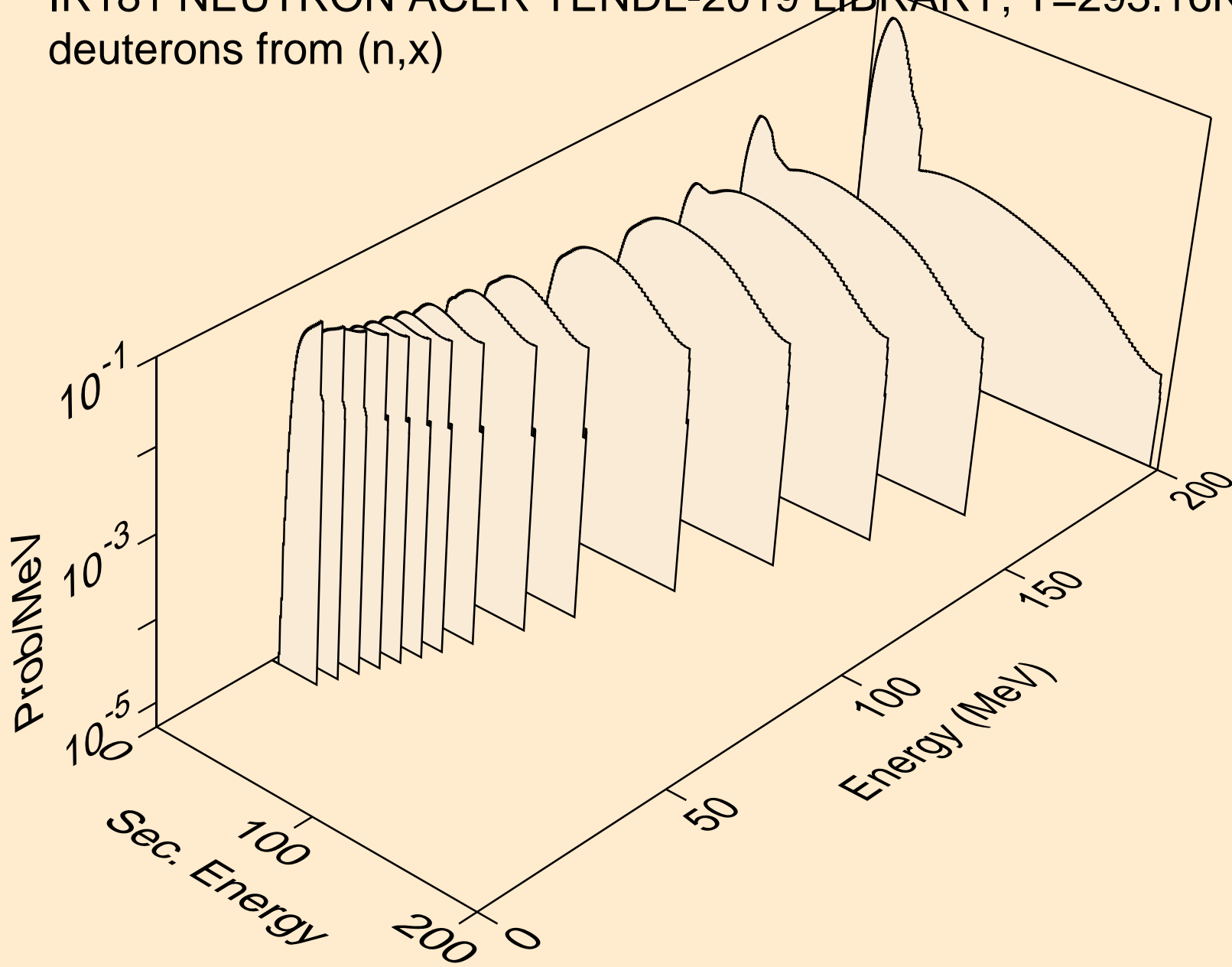




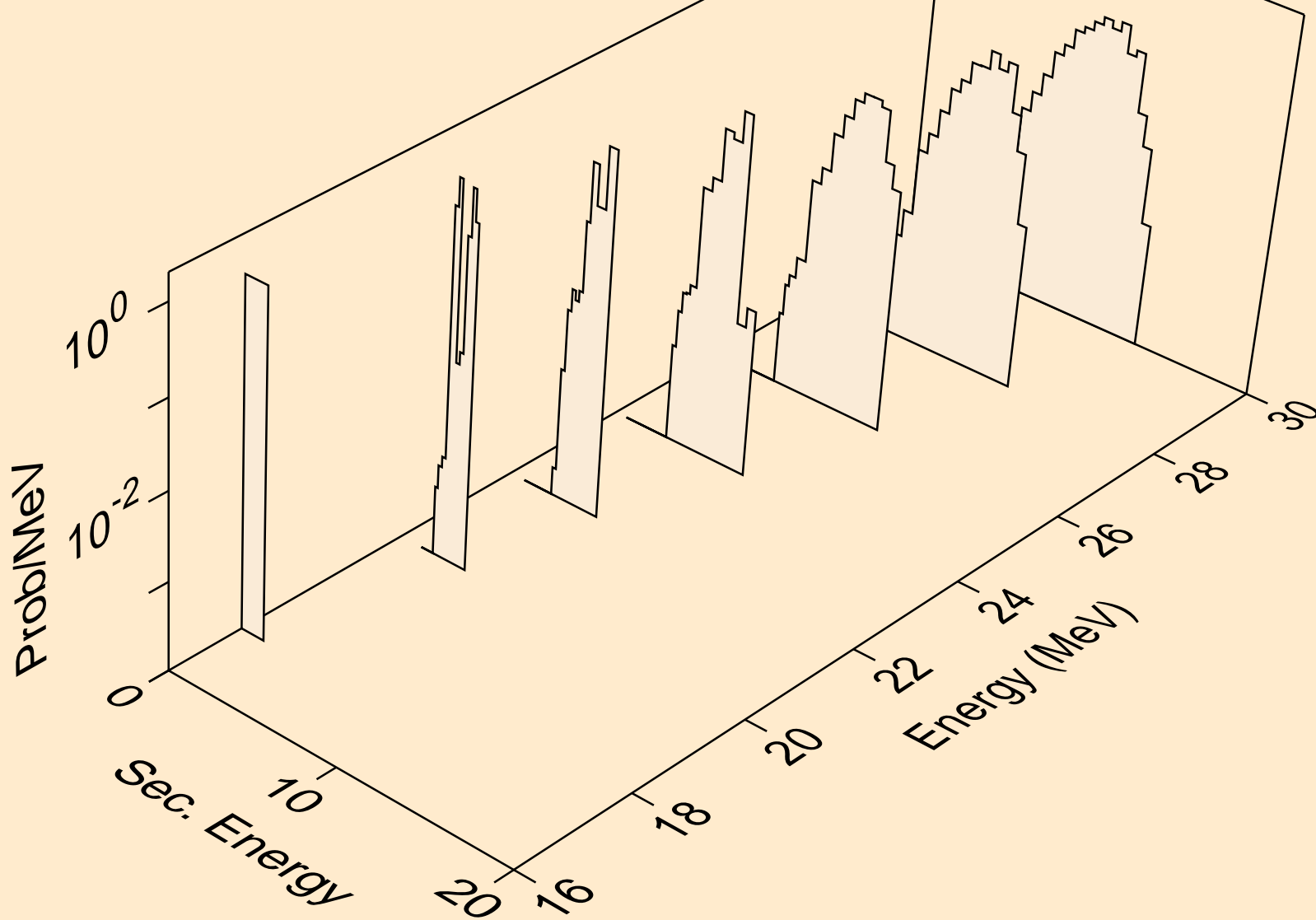
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protons from (n,pt)



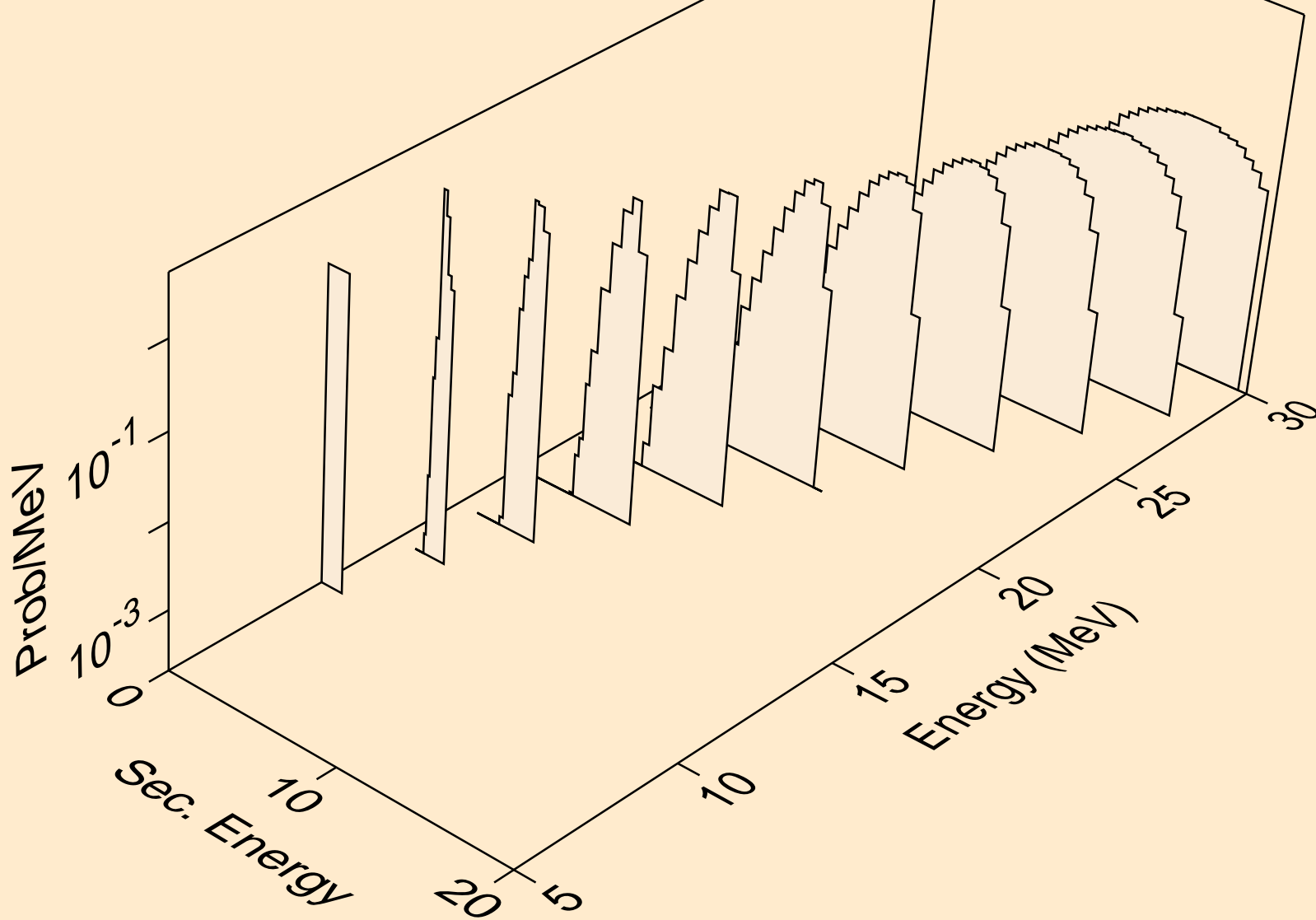
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deuterons from (n,x)



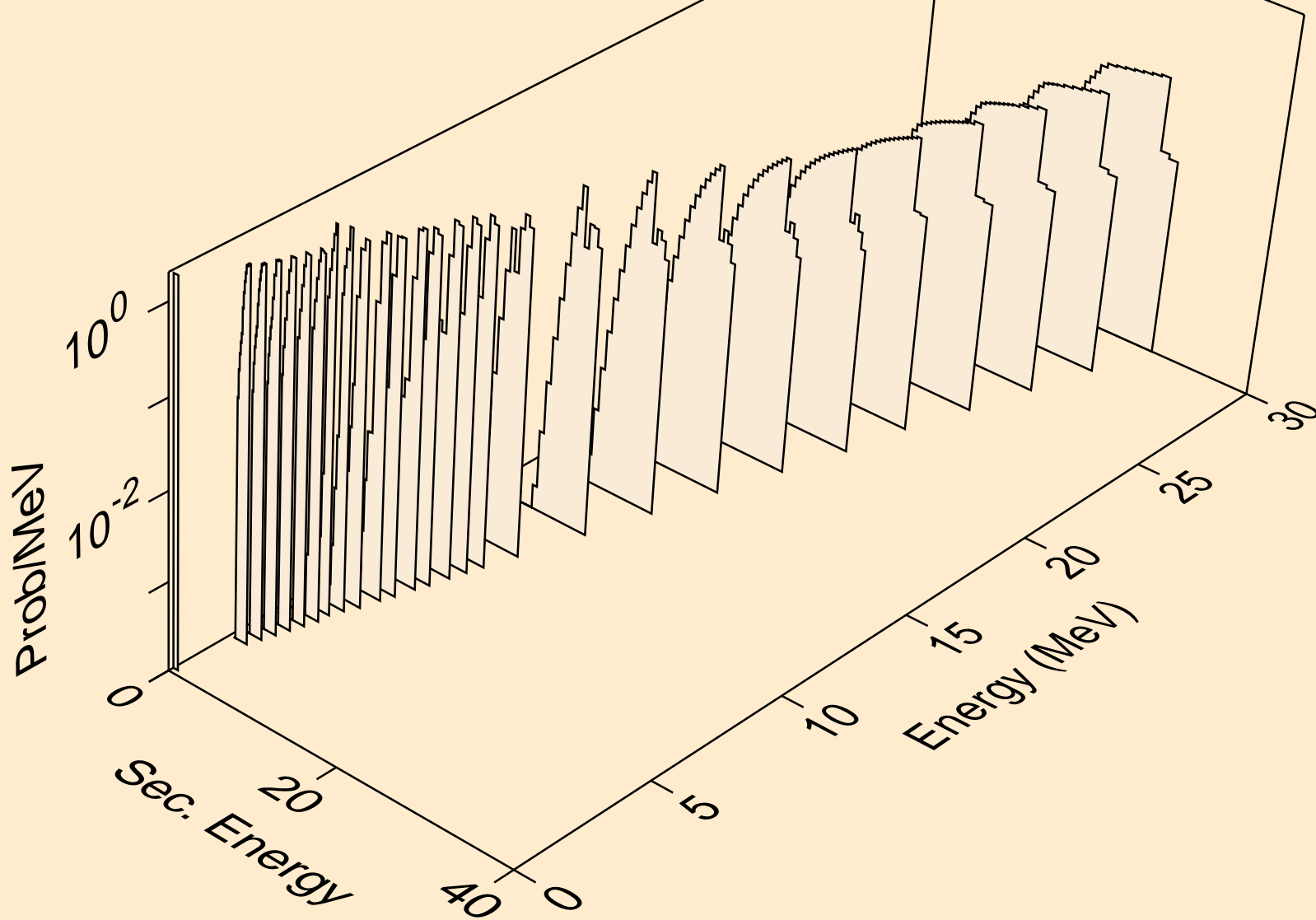
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deuterons from (n,2nd)



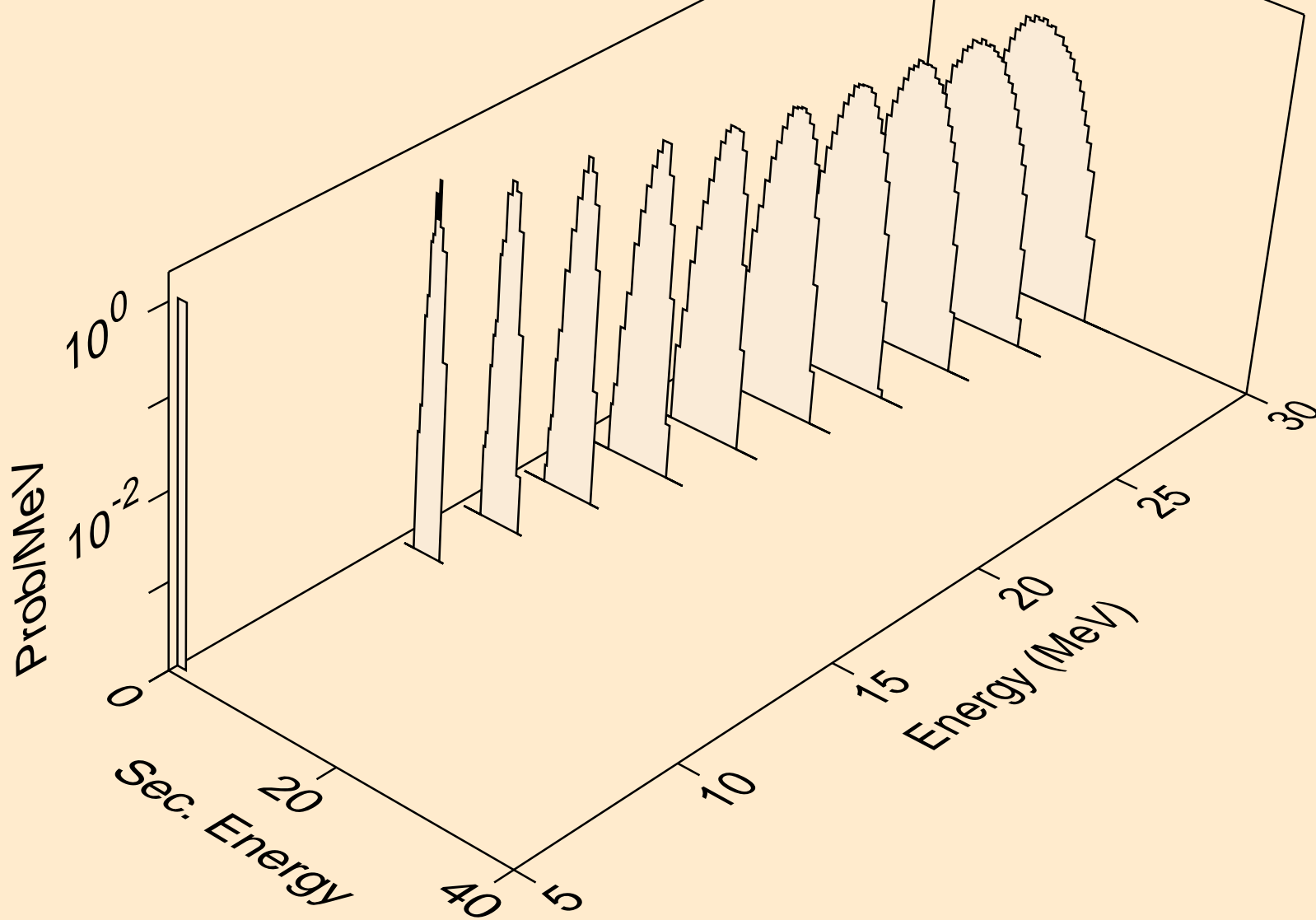
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deuterons from (n,n\*)d



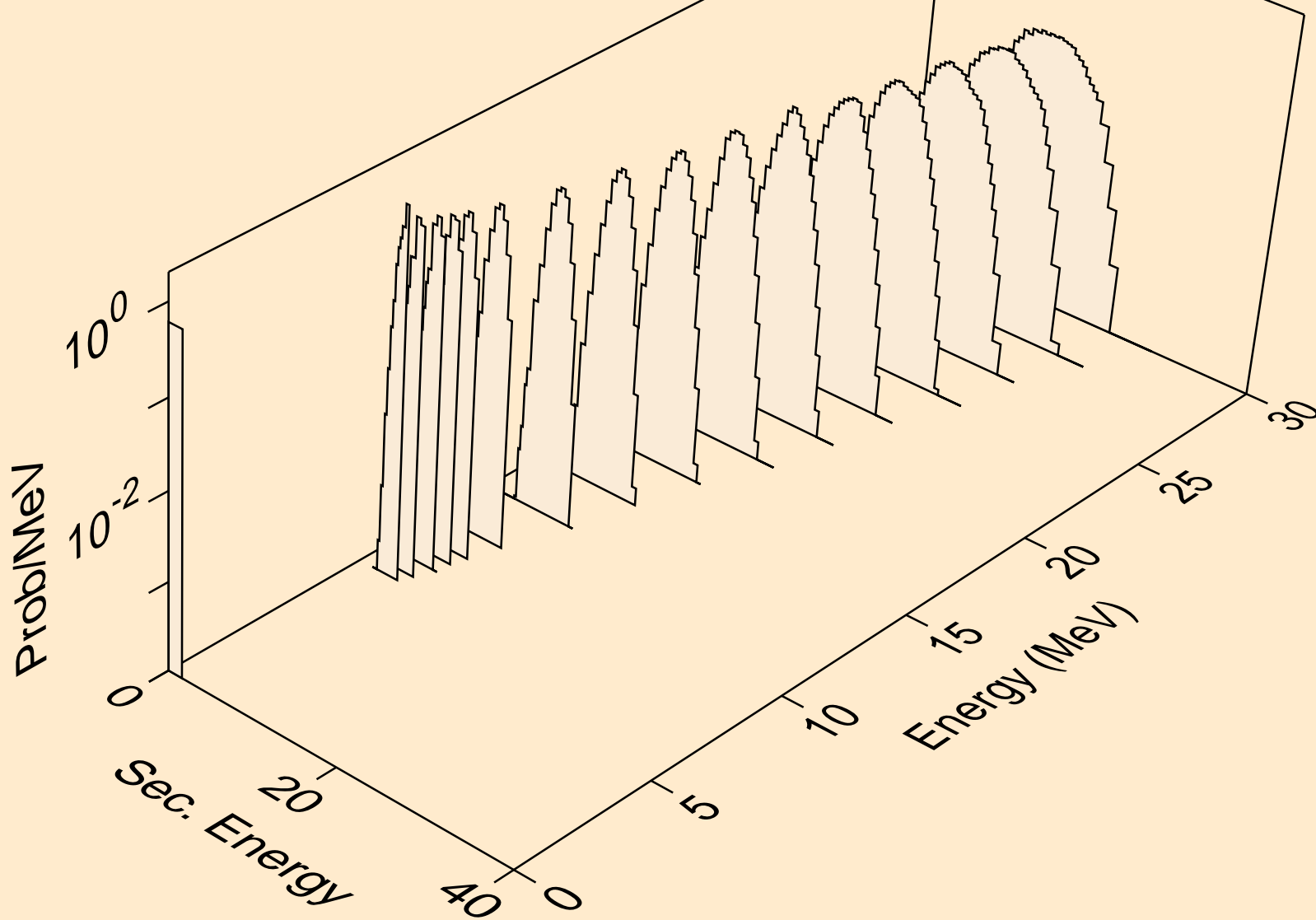
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deuterons from (n,d)



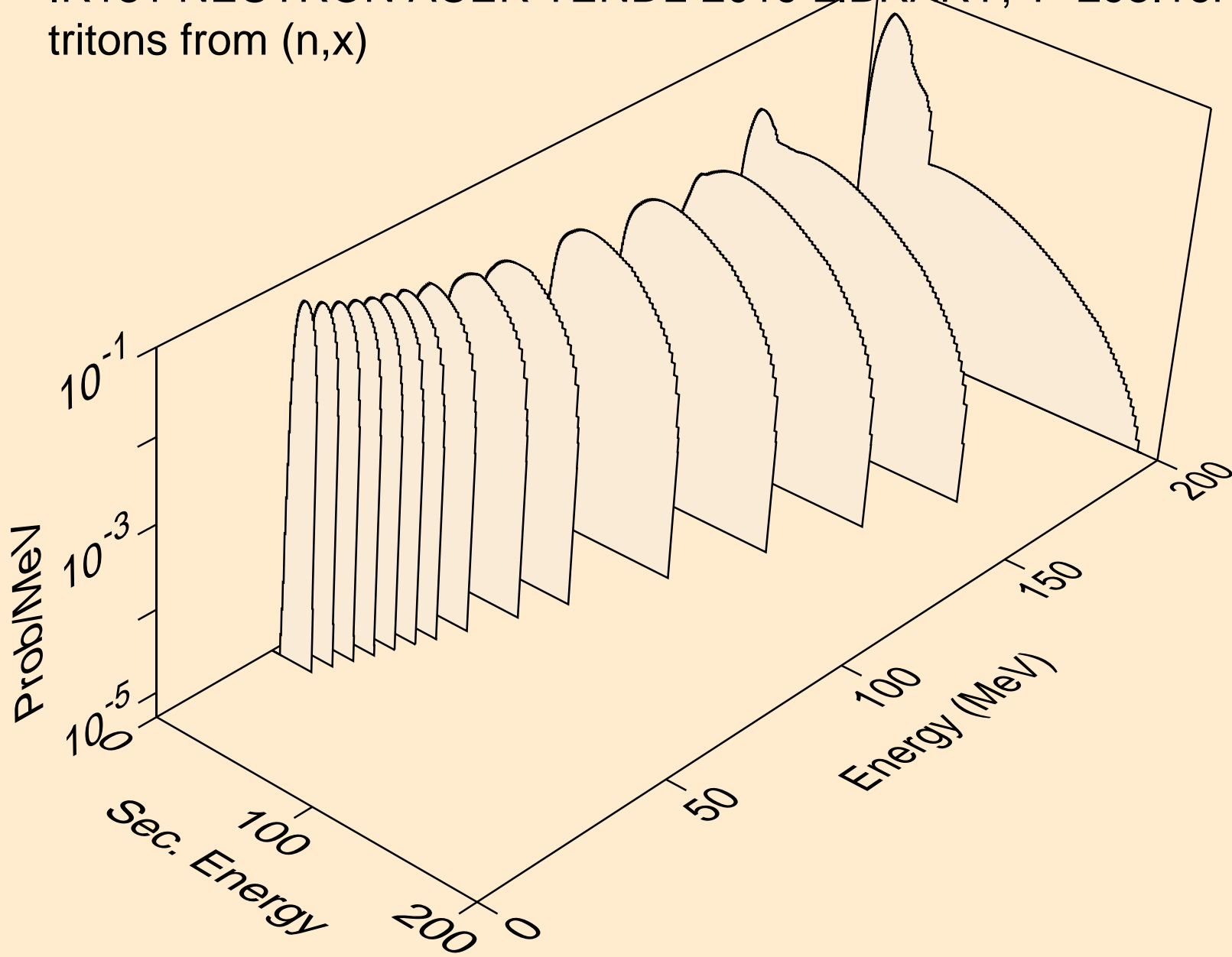
IR181 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
deuterons from (n,pd)



IR181 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
deuterons from (n,da)

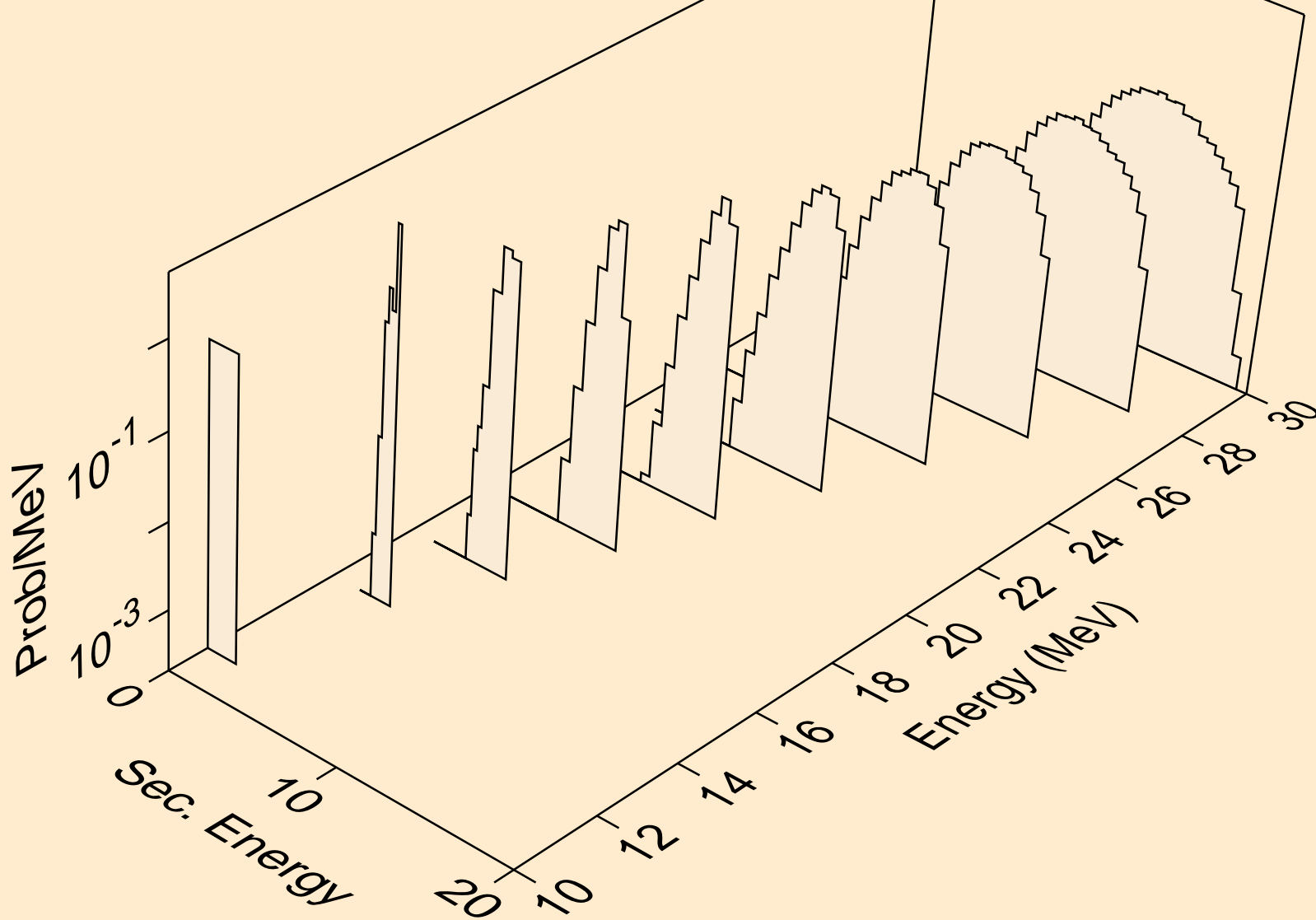


IR181 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
tritons from (n,x)

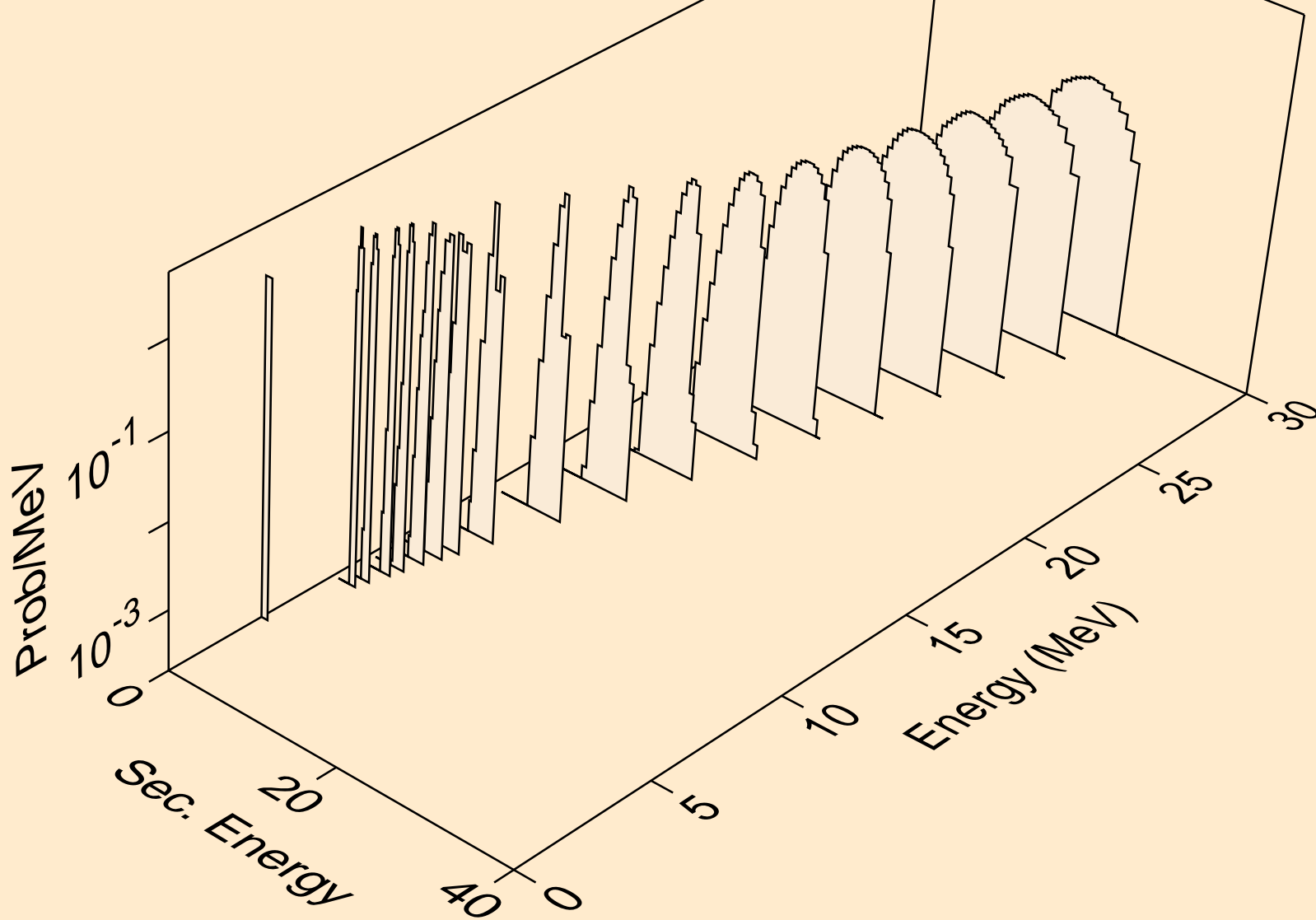




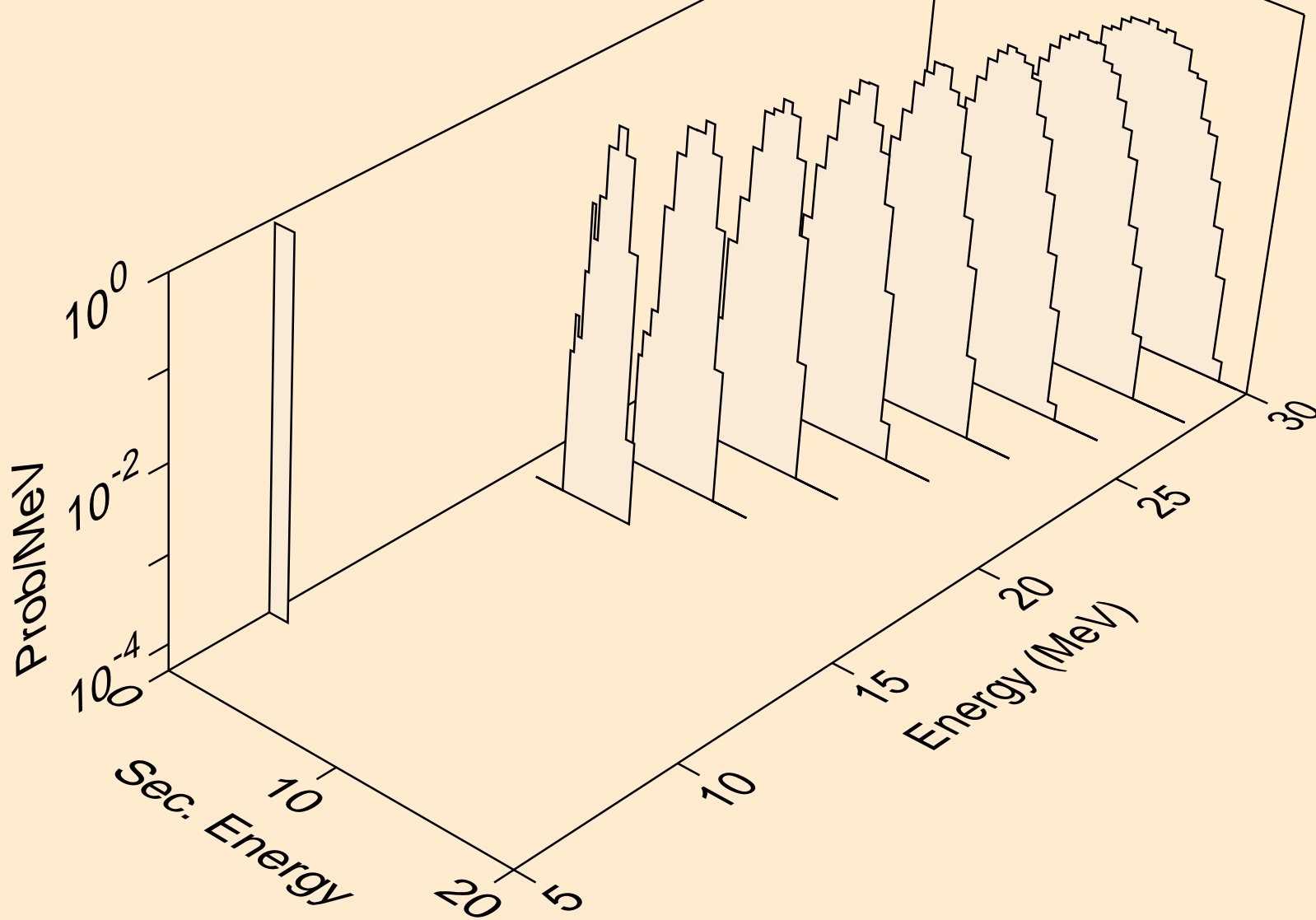
IR181 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
tritons from (n,n\*)t



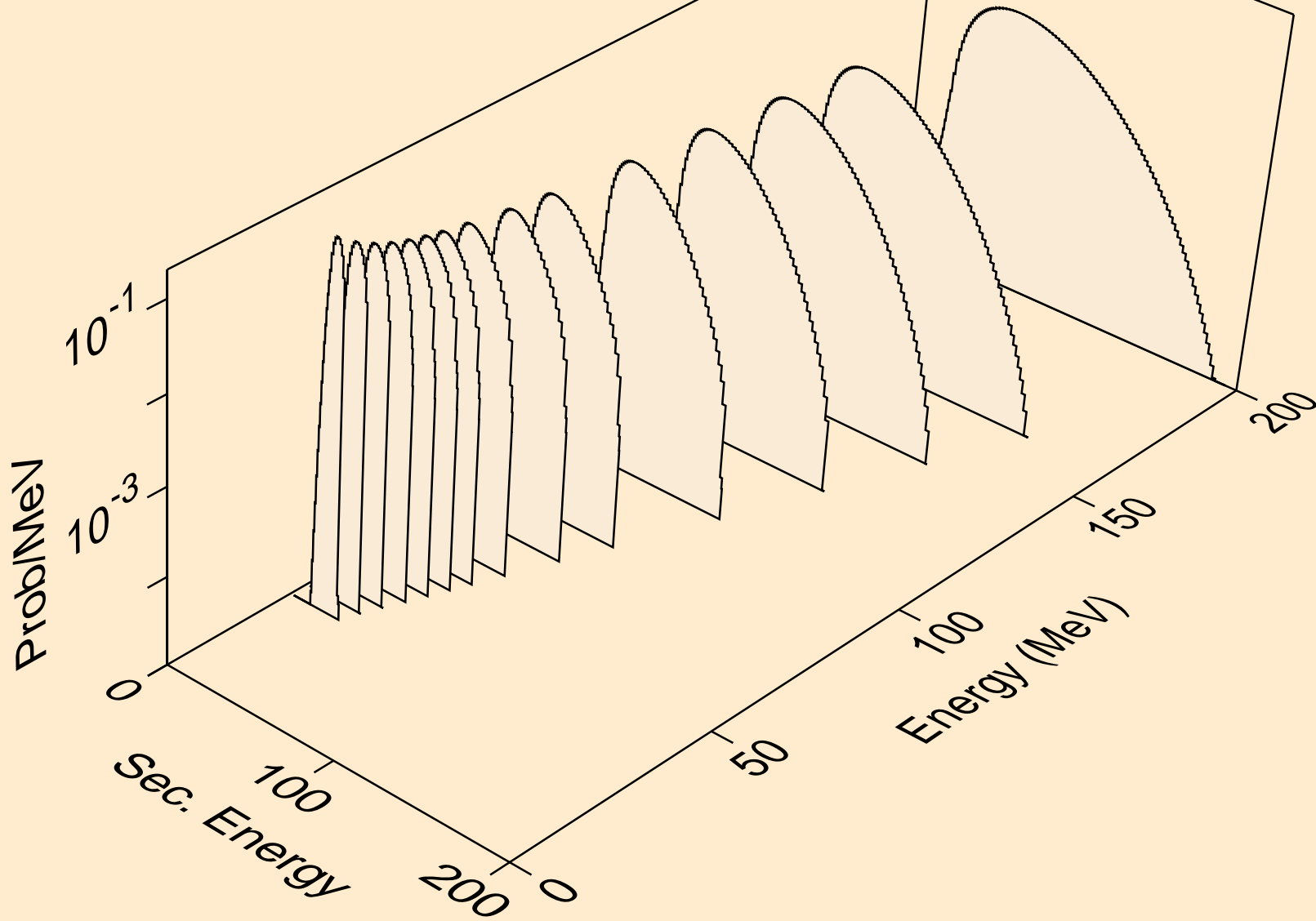
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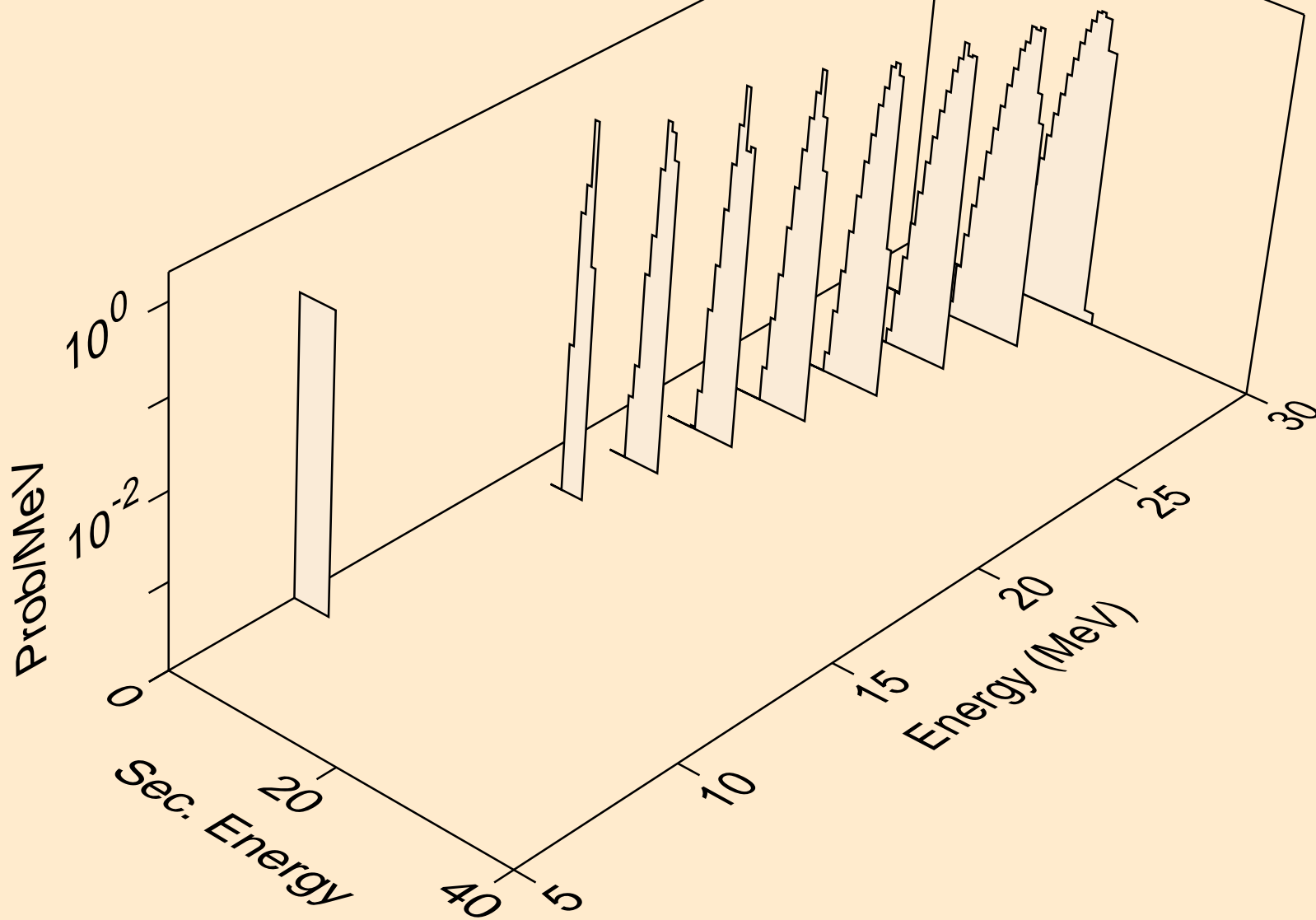
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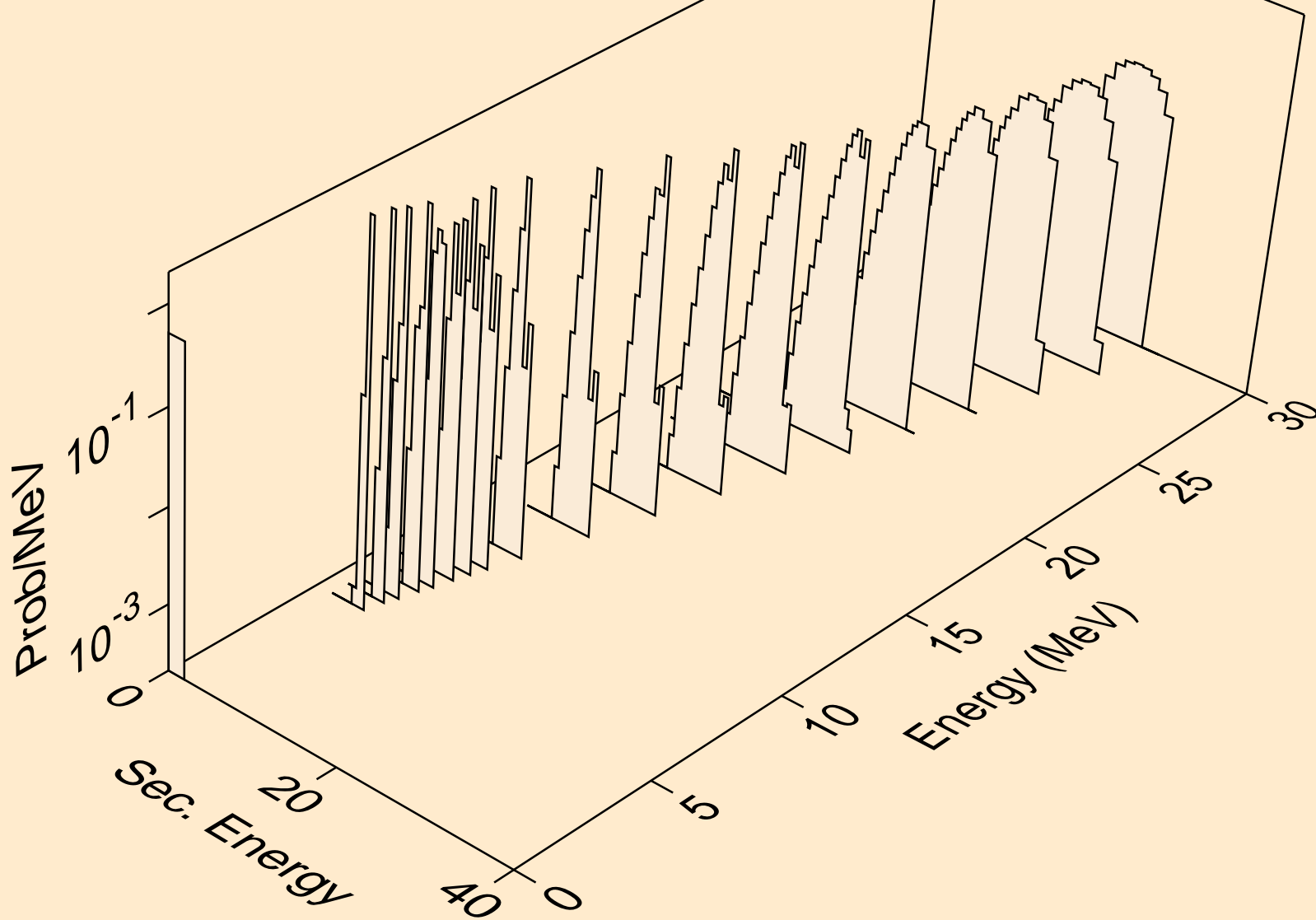
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he3s from (n,x)



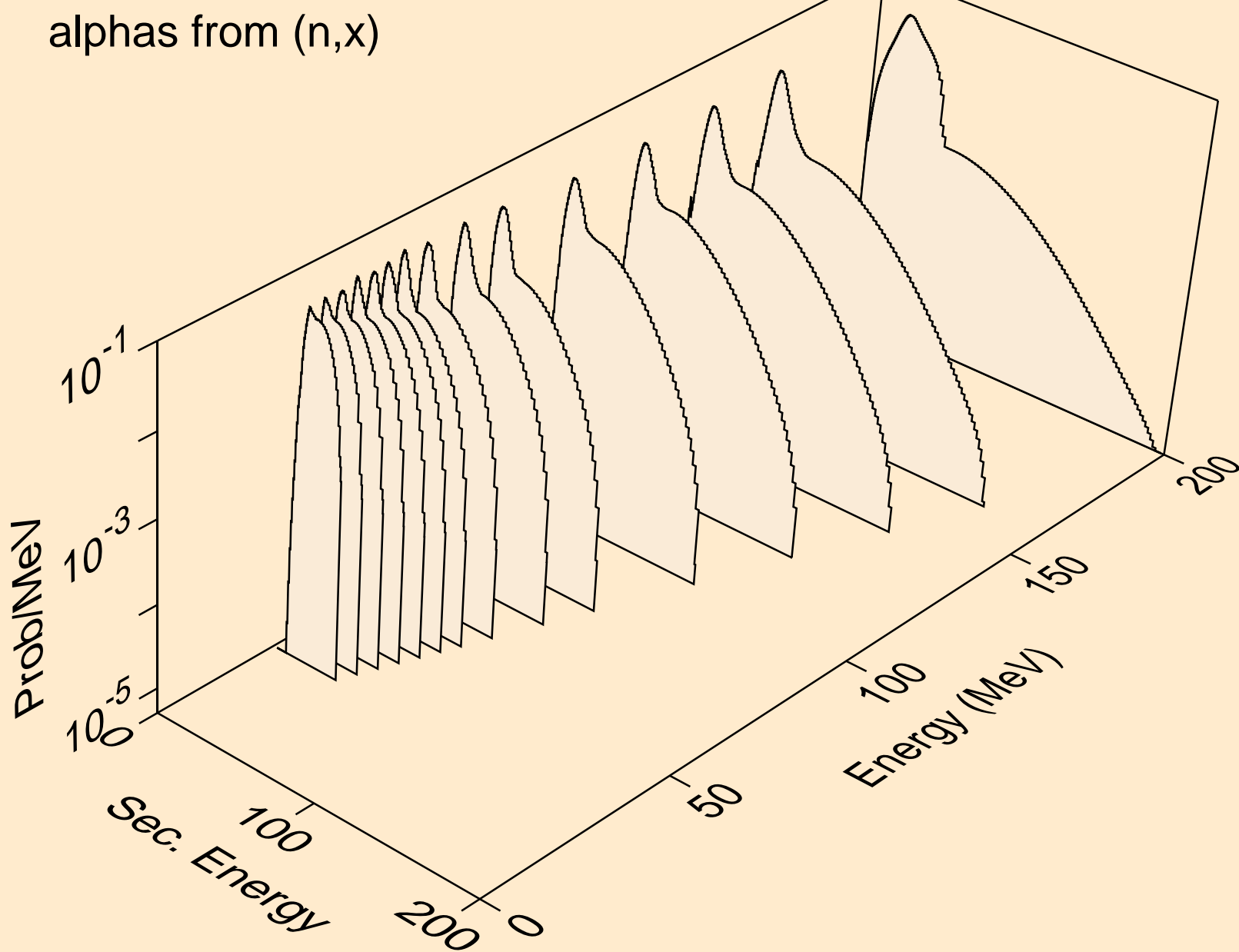
IR181 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
he3s from (n,n\*)he3



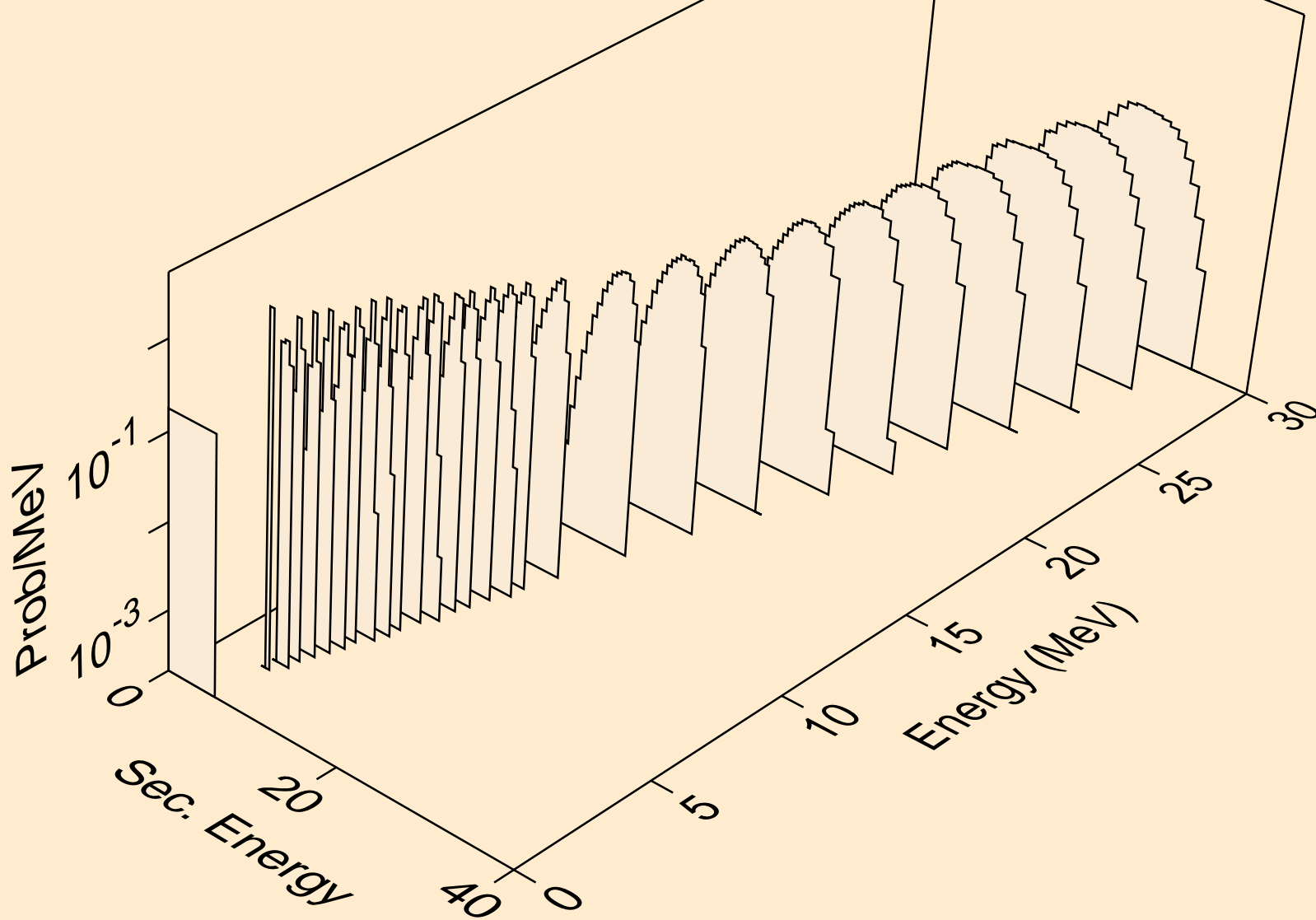
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he3s from (n,he3)



IR181 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
alphas from (n,x)

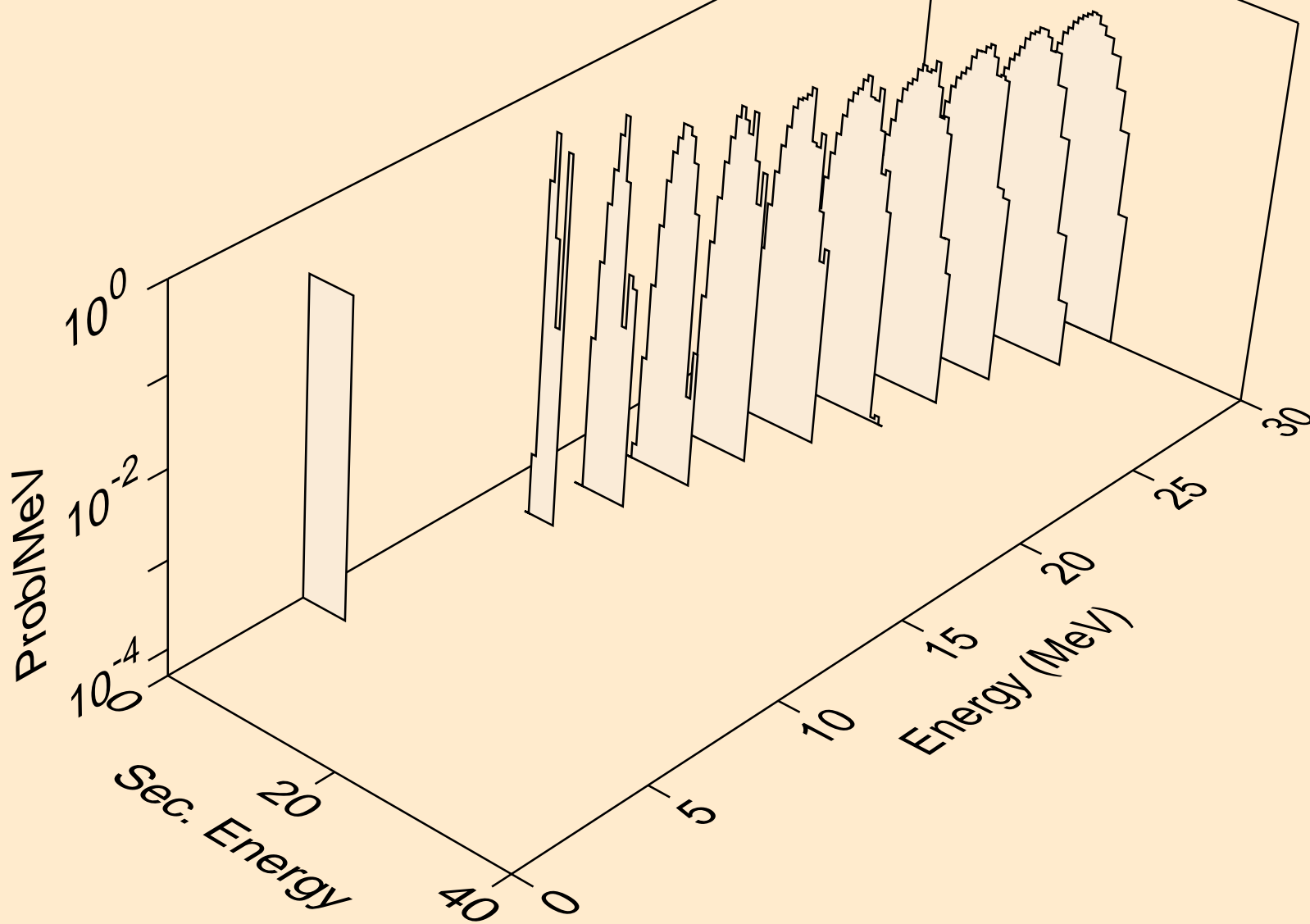


IR181 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
alphas from (n,n\*)a

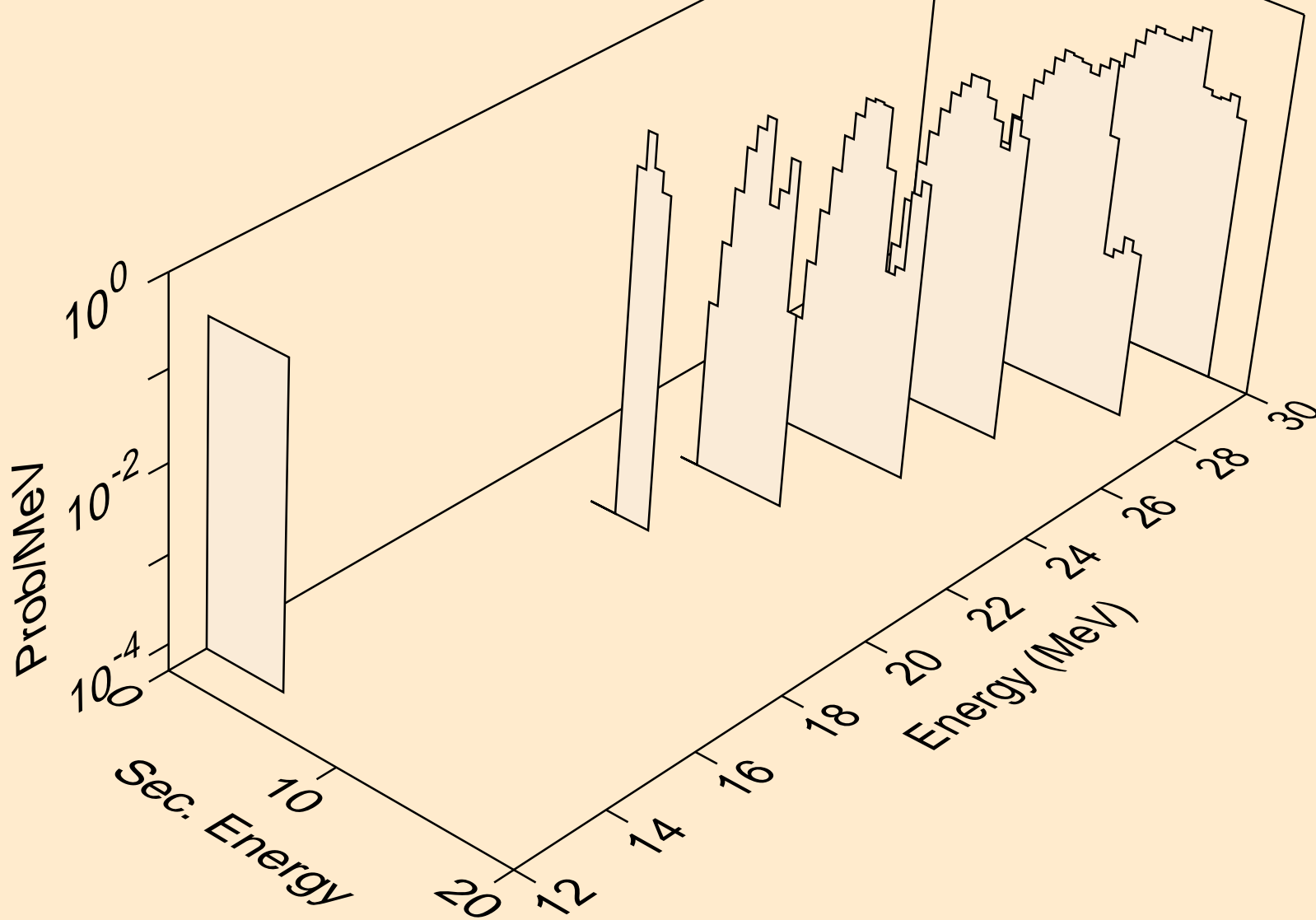




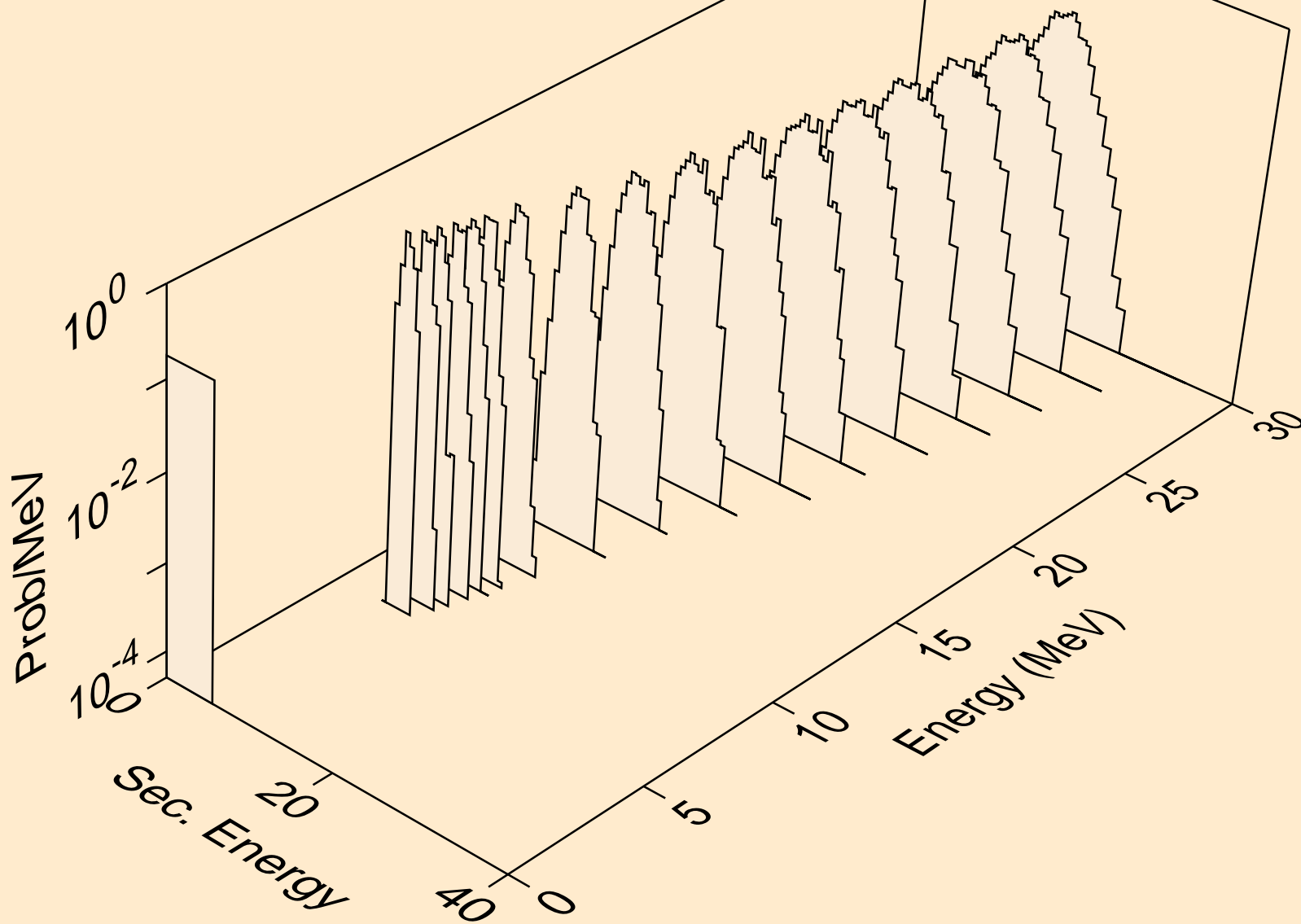
IR181 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
alphas from (n,2n)a



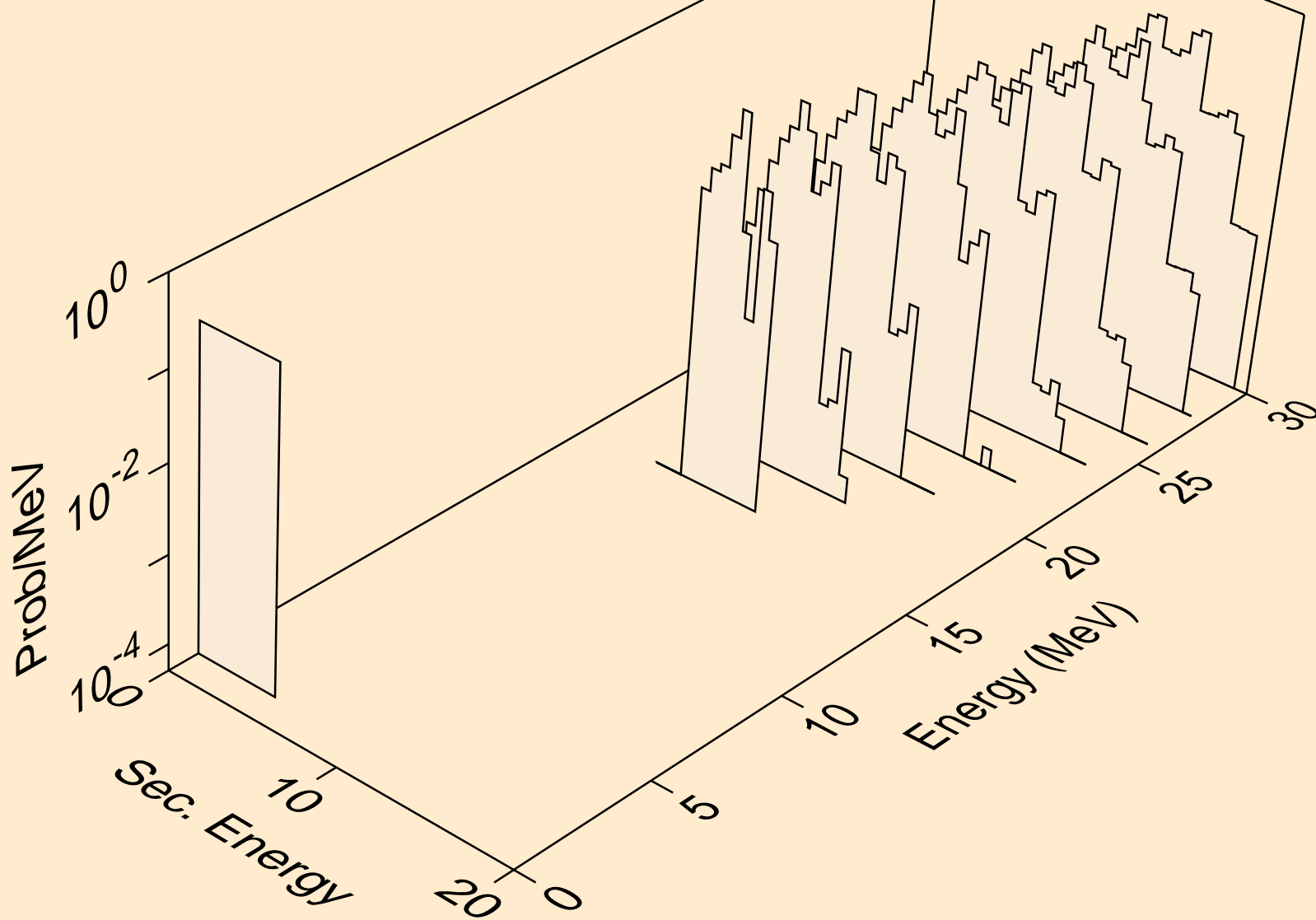
IR181 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
alphas from (n,3n)a



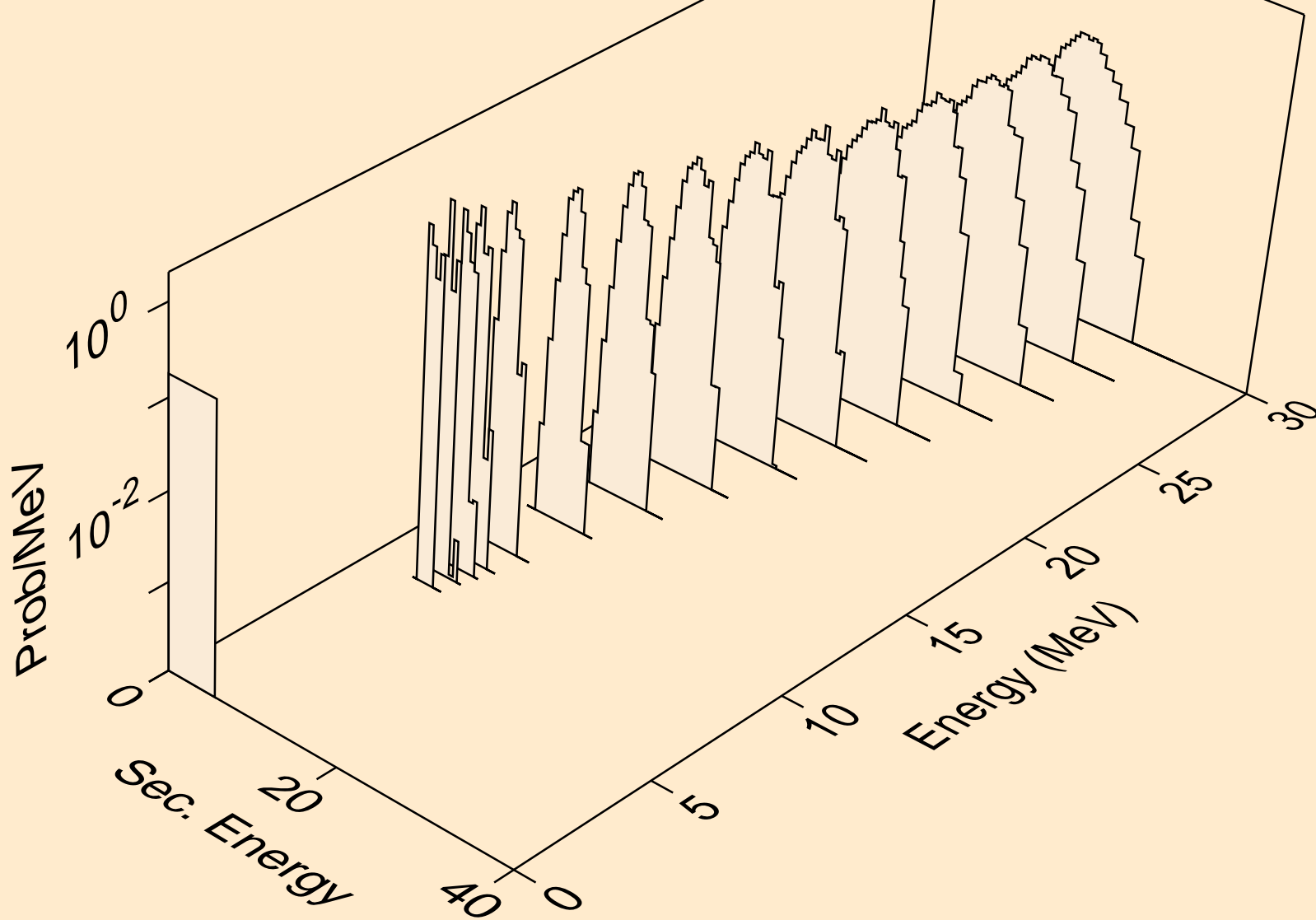
IR181 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
alphas from (n,n\*)2a



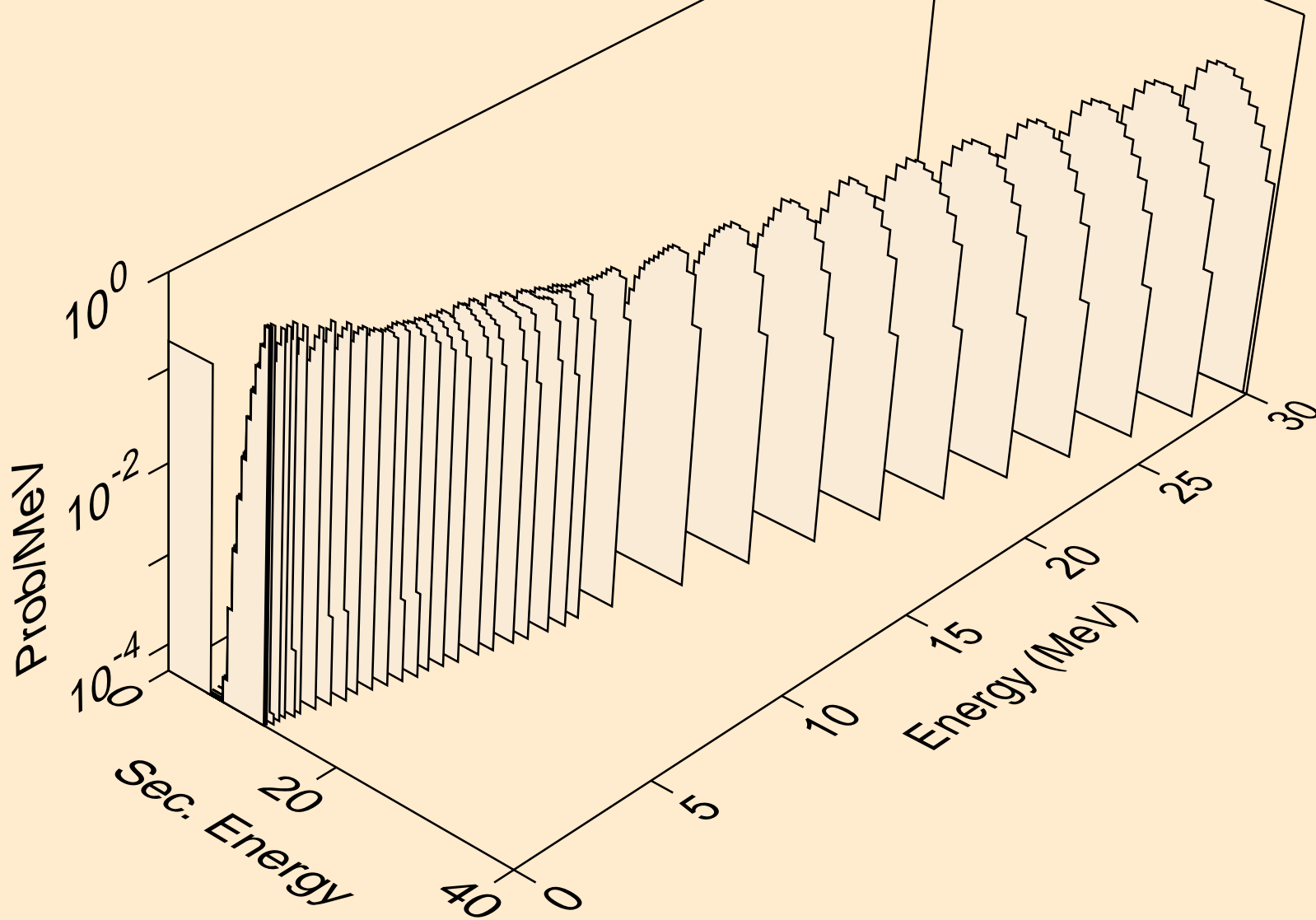
IR181 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
alphas from (n,2n)2a



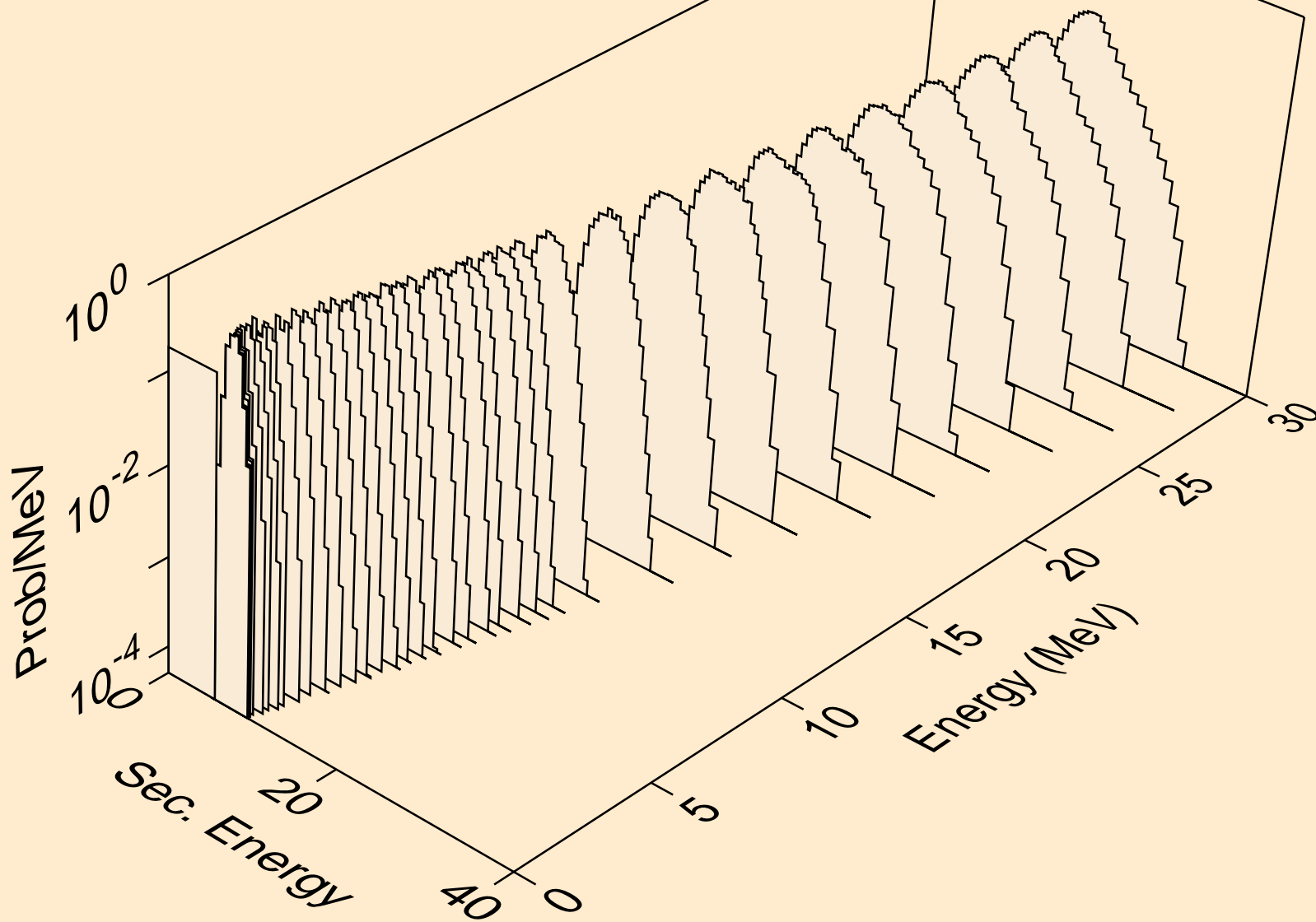
IR181 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
alphas from (n,npa)



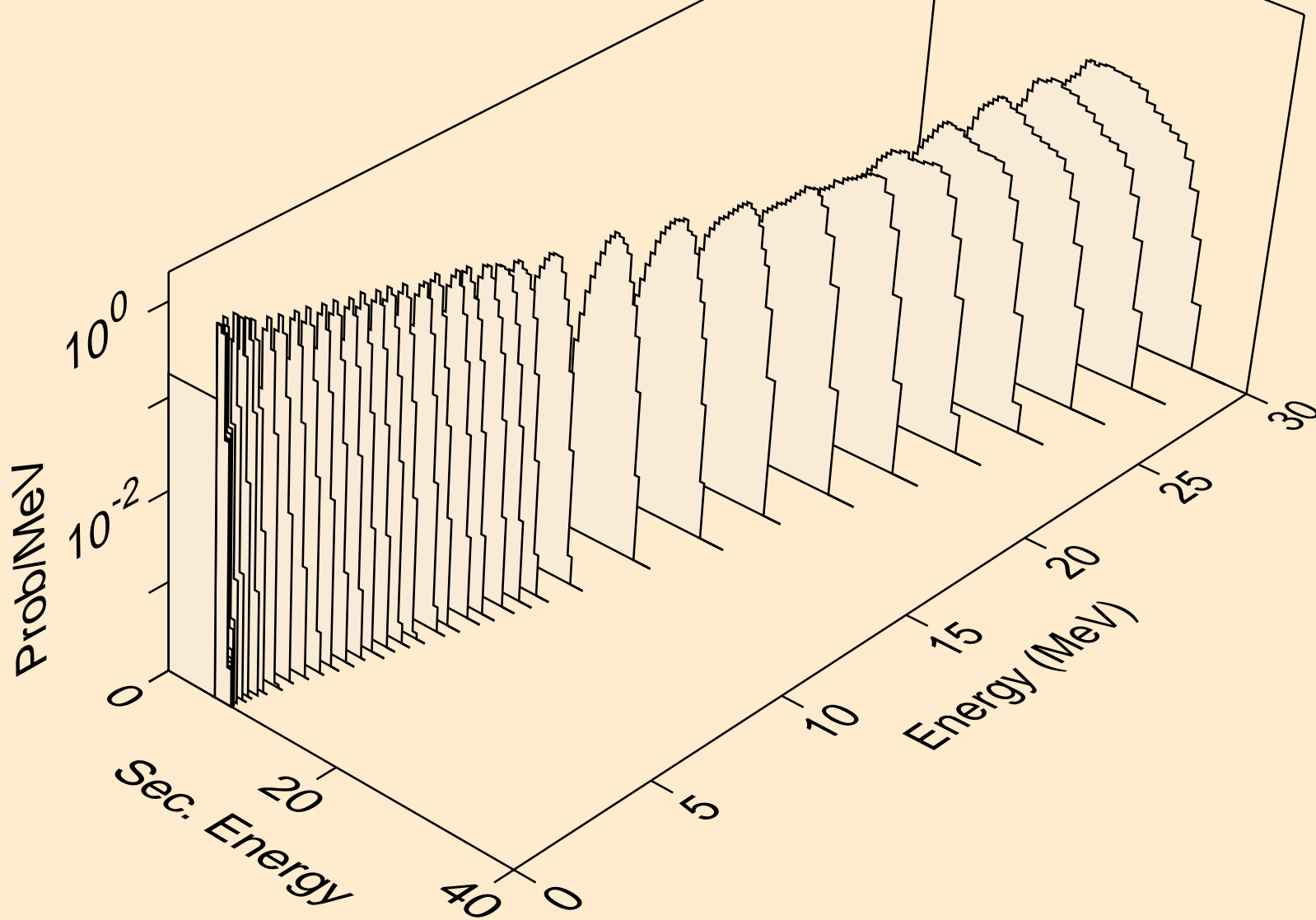
IR181 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
alphas from (n,a)



IR181 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
alphas from (n,2a)



IR181 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
alphas from (n,pa)





IR181 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
alphas from (n,da)

