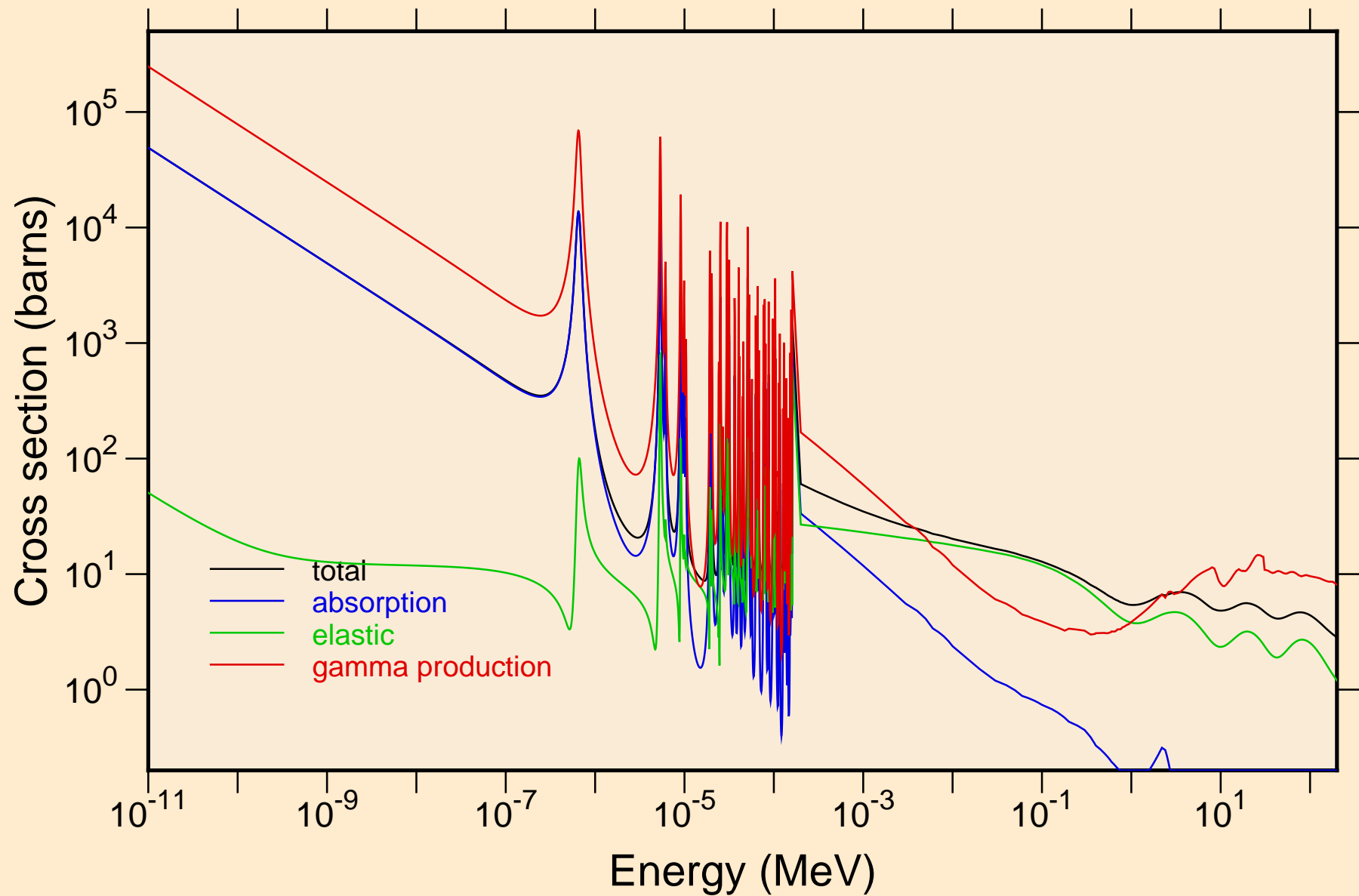
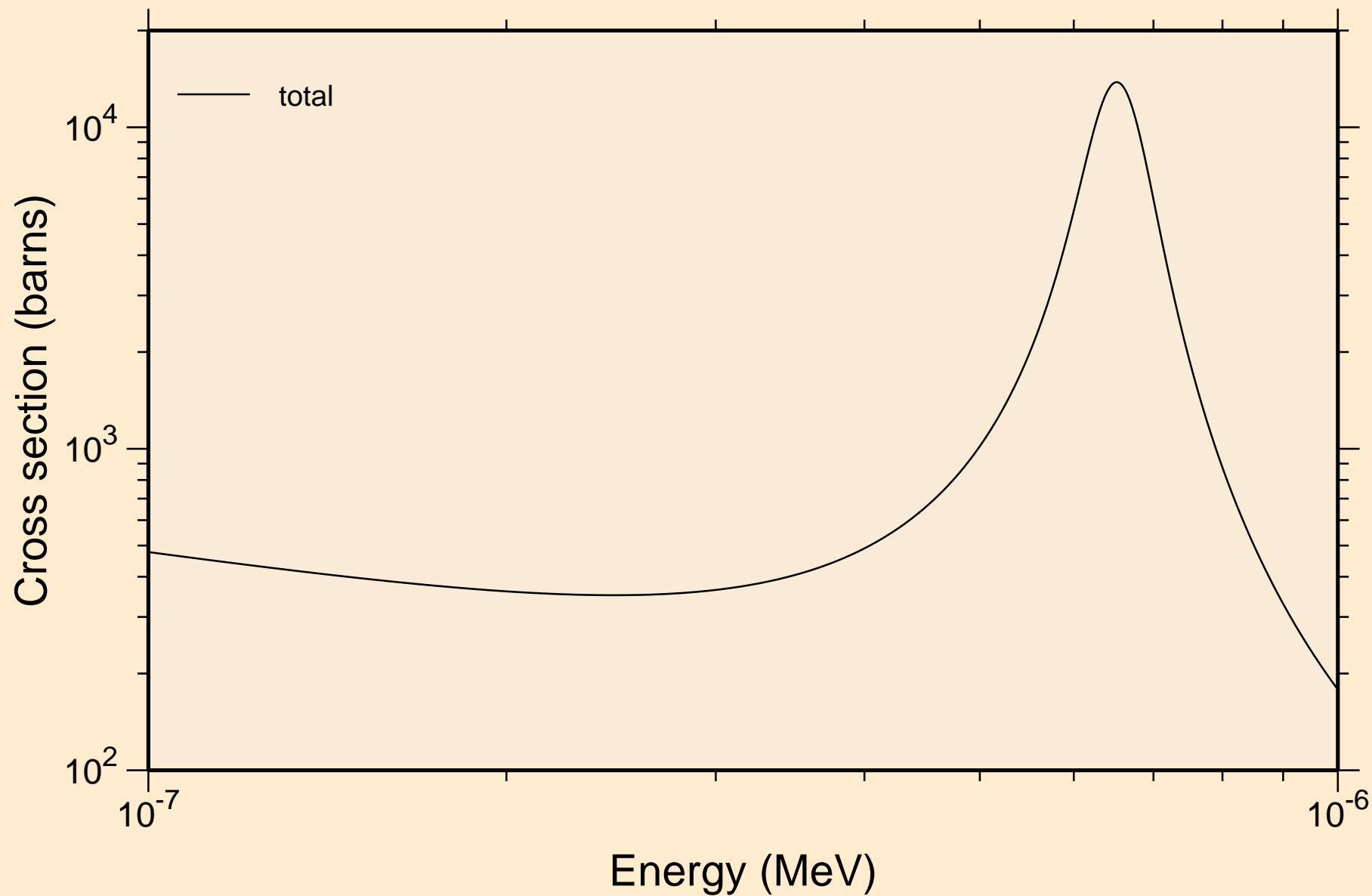


# IR191 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K

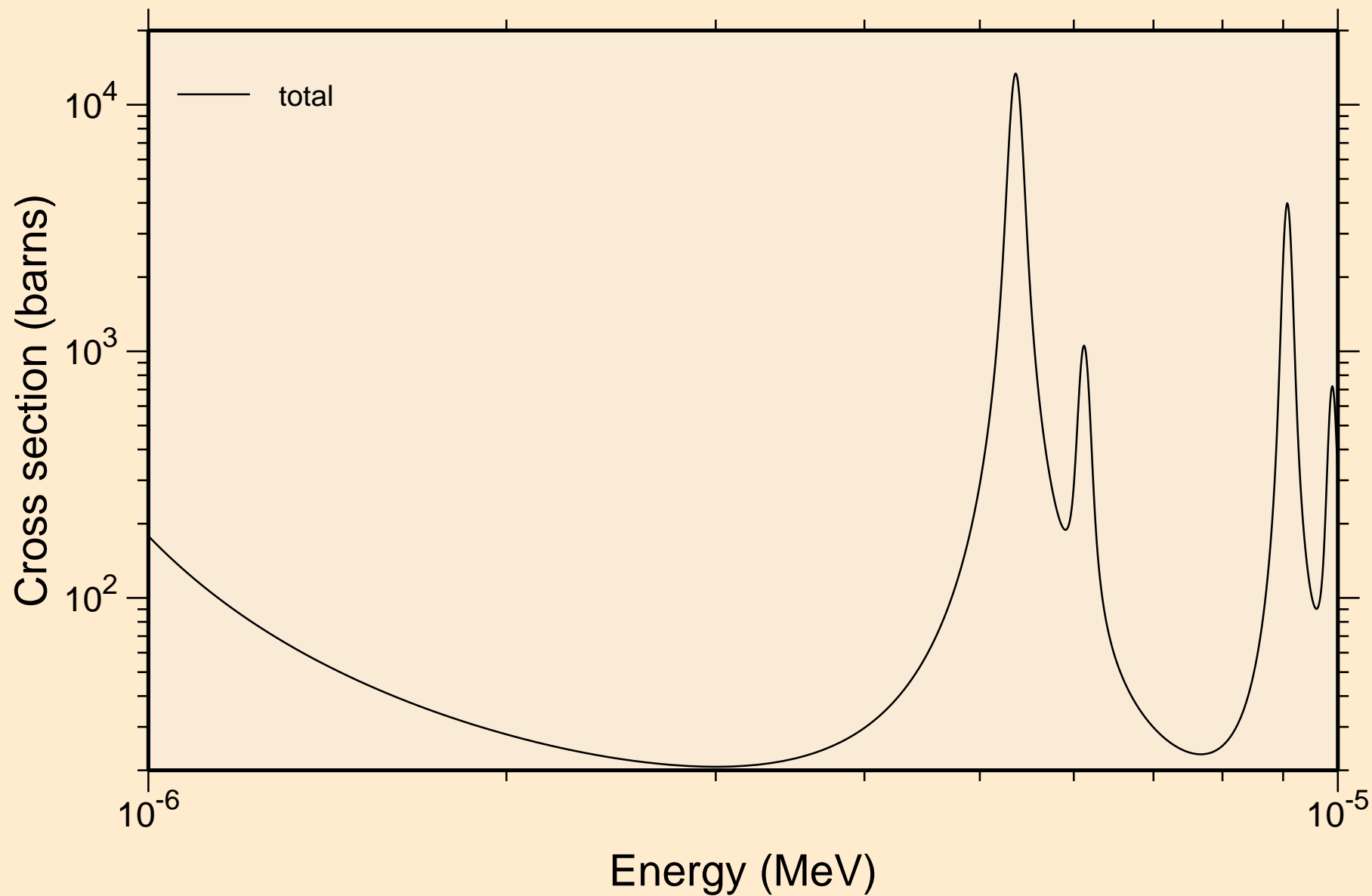
## Principal cross sections



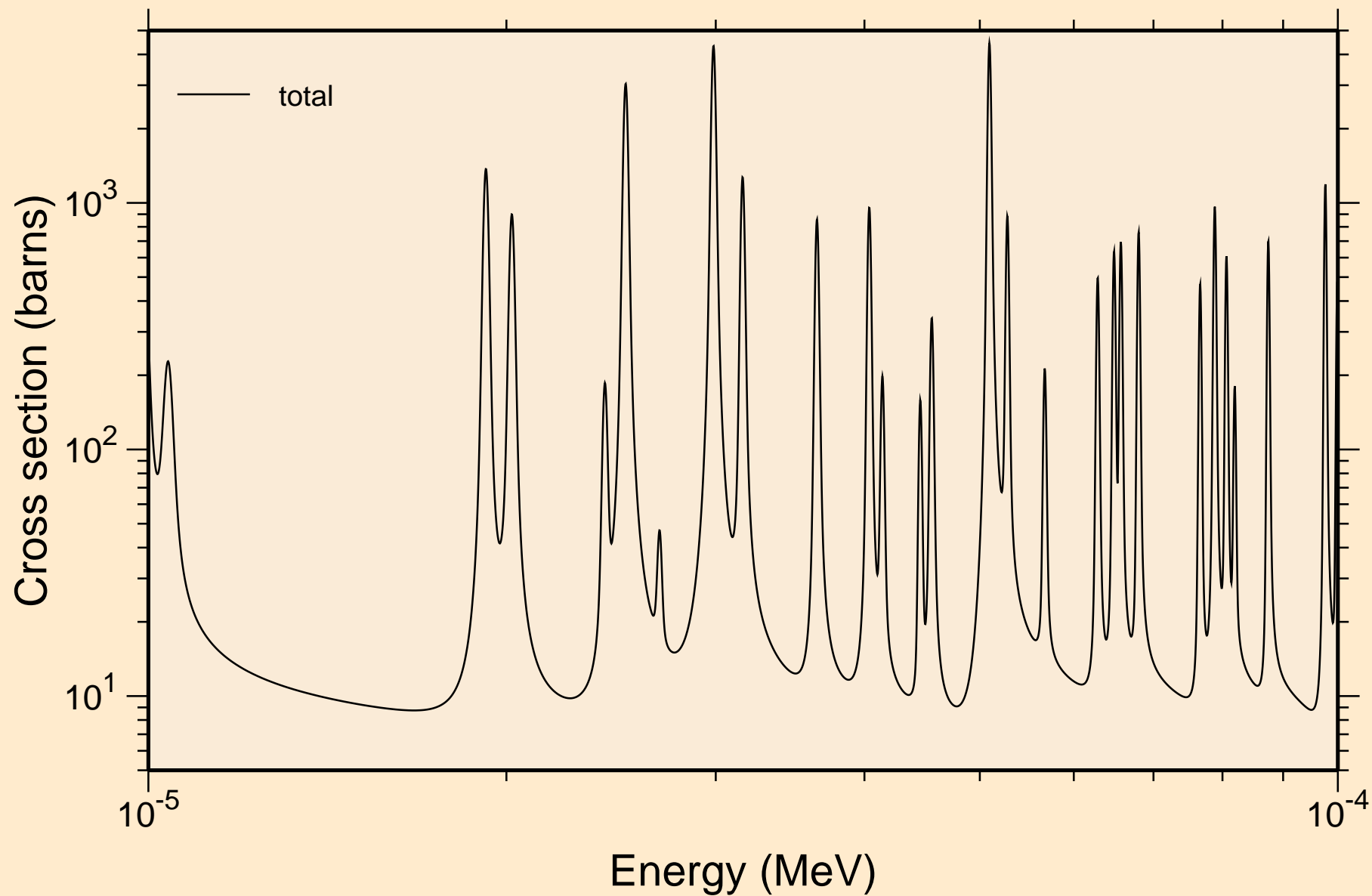
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resonance total cross section



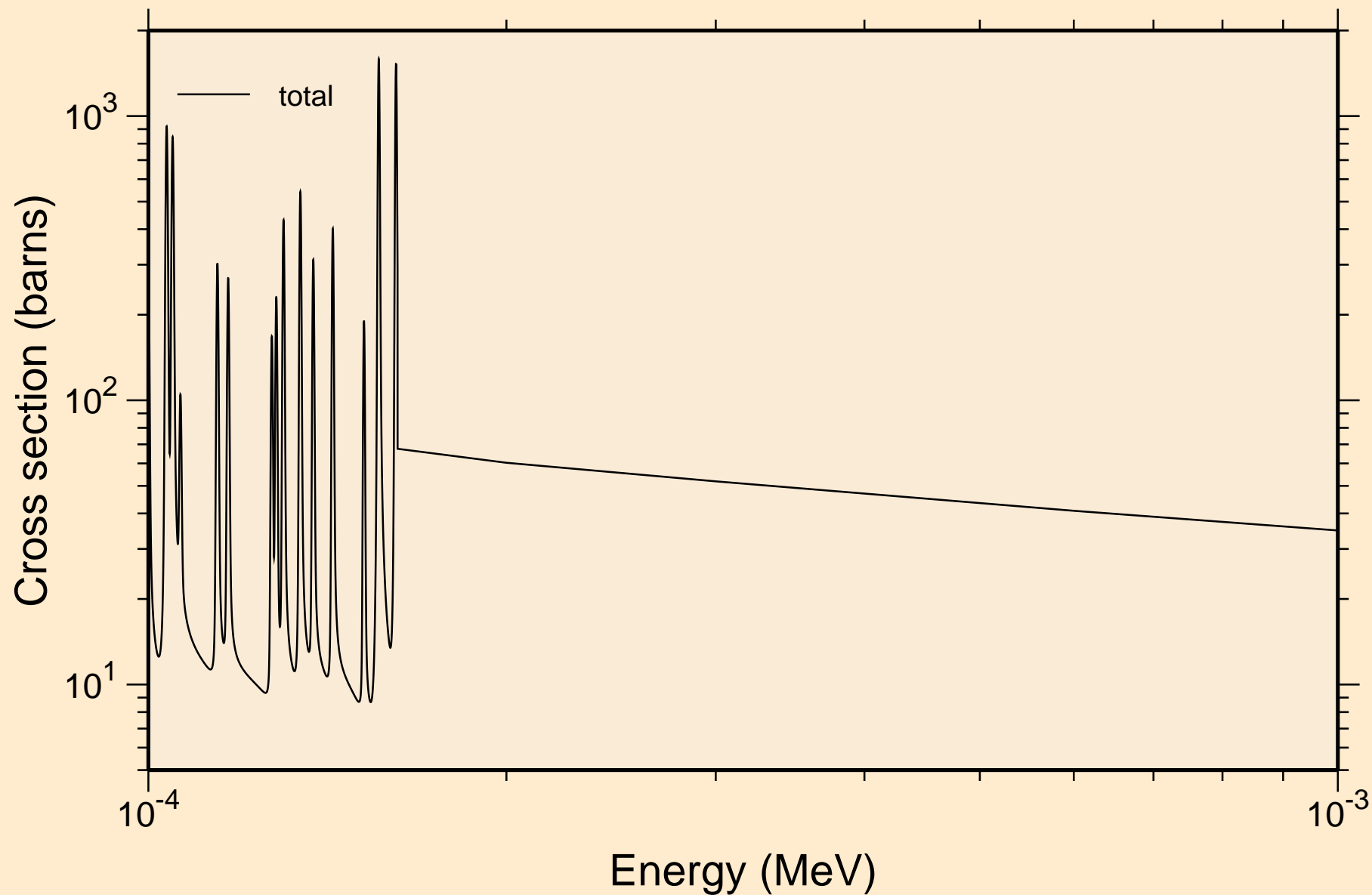
IR191 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
resonance total cross section



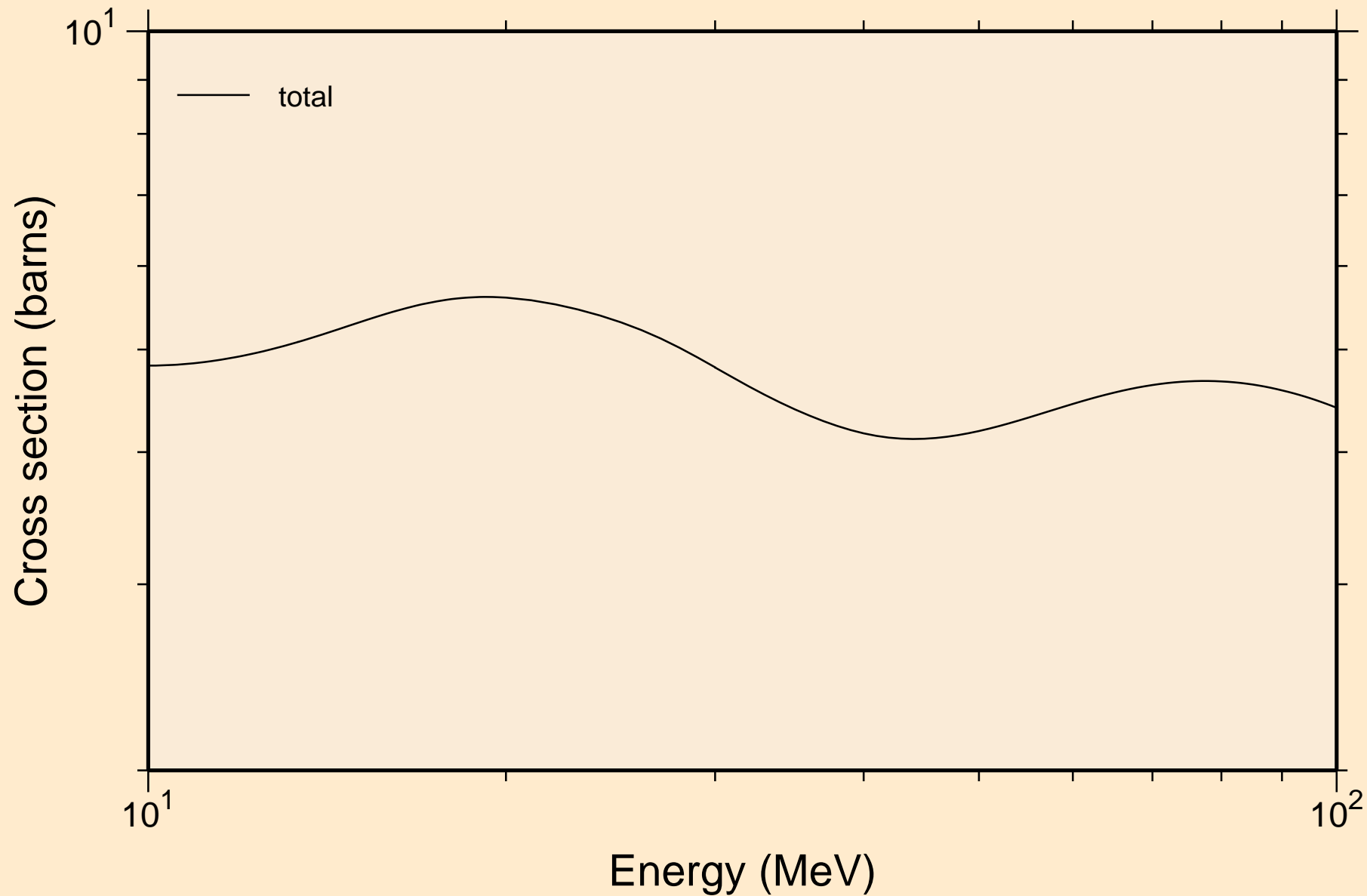
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resonance total cross section



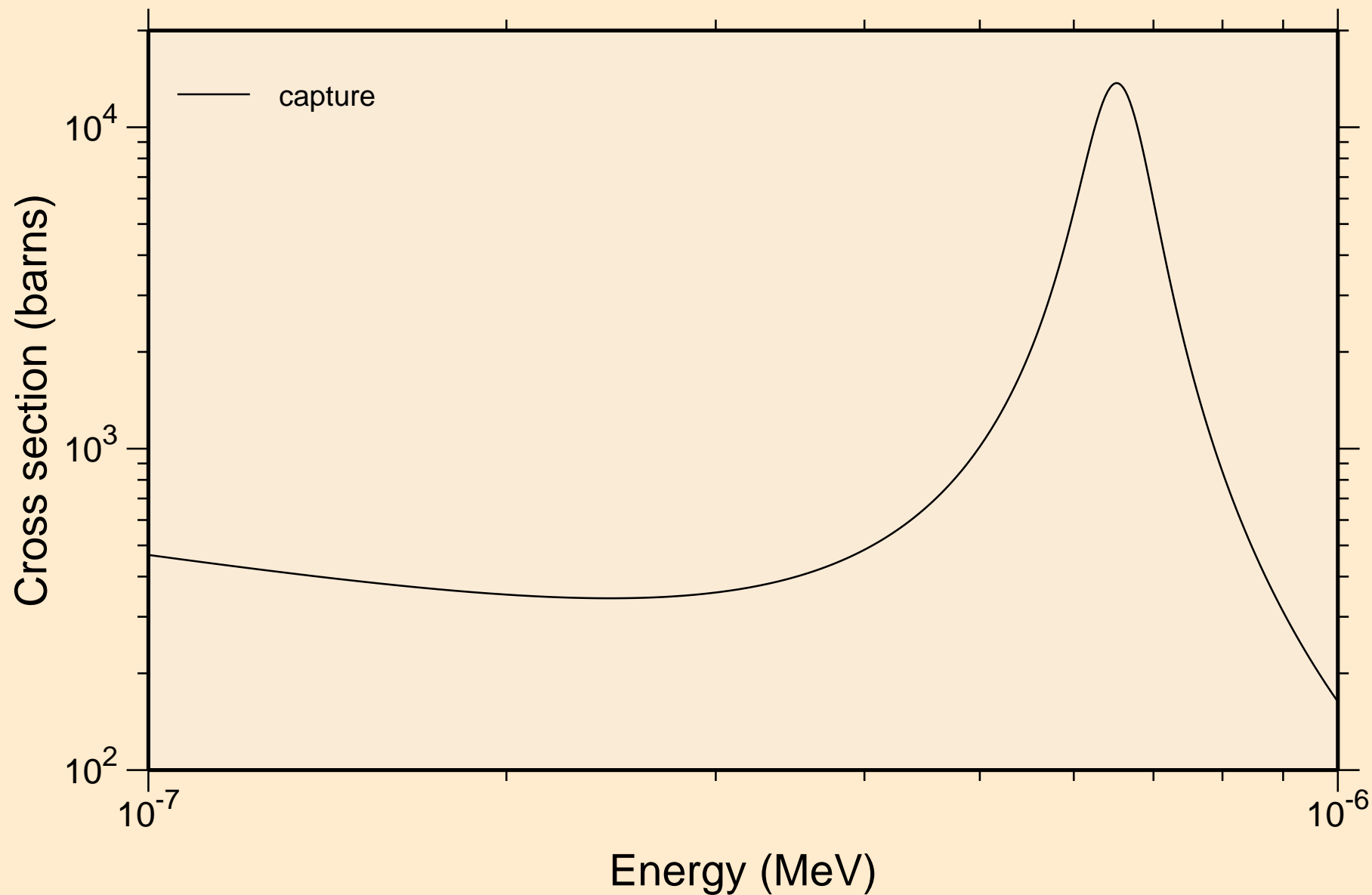
IR191 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
resonance total cross section



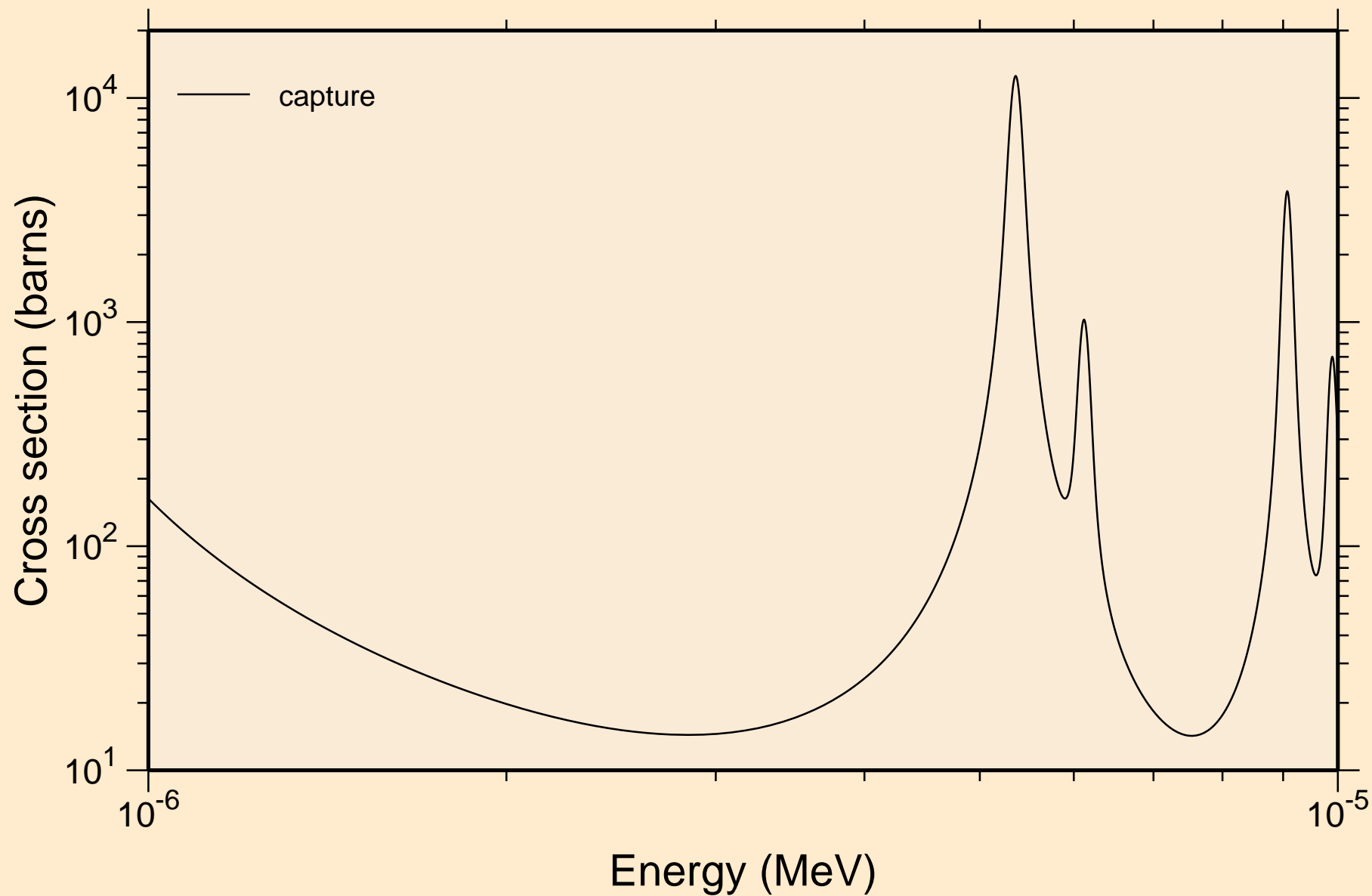
IR191 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
resonance total cross section



IR191 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
resonance absorption cross sections

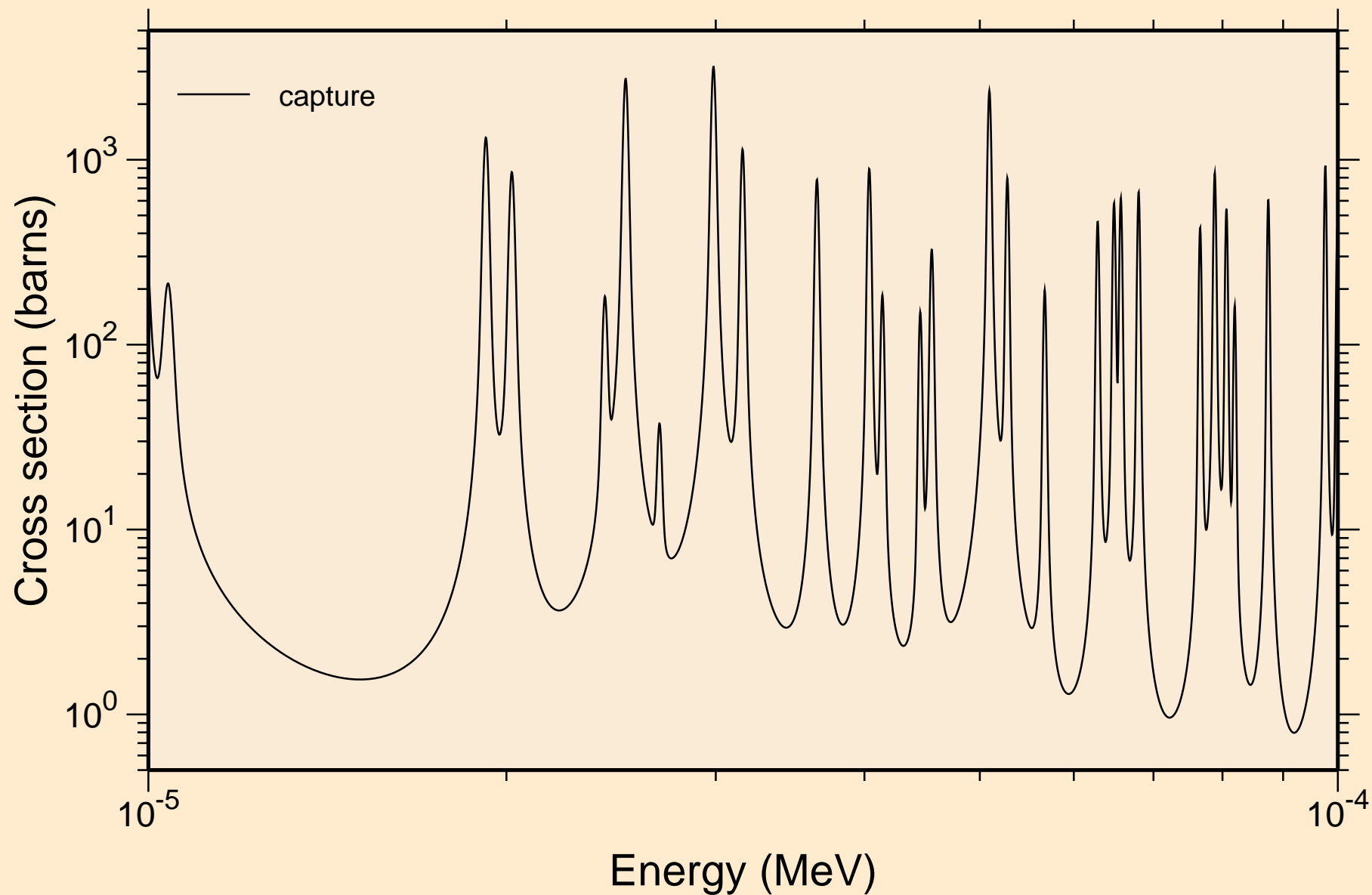


IR191 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
resonance absorption cross sections

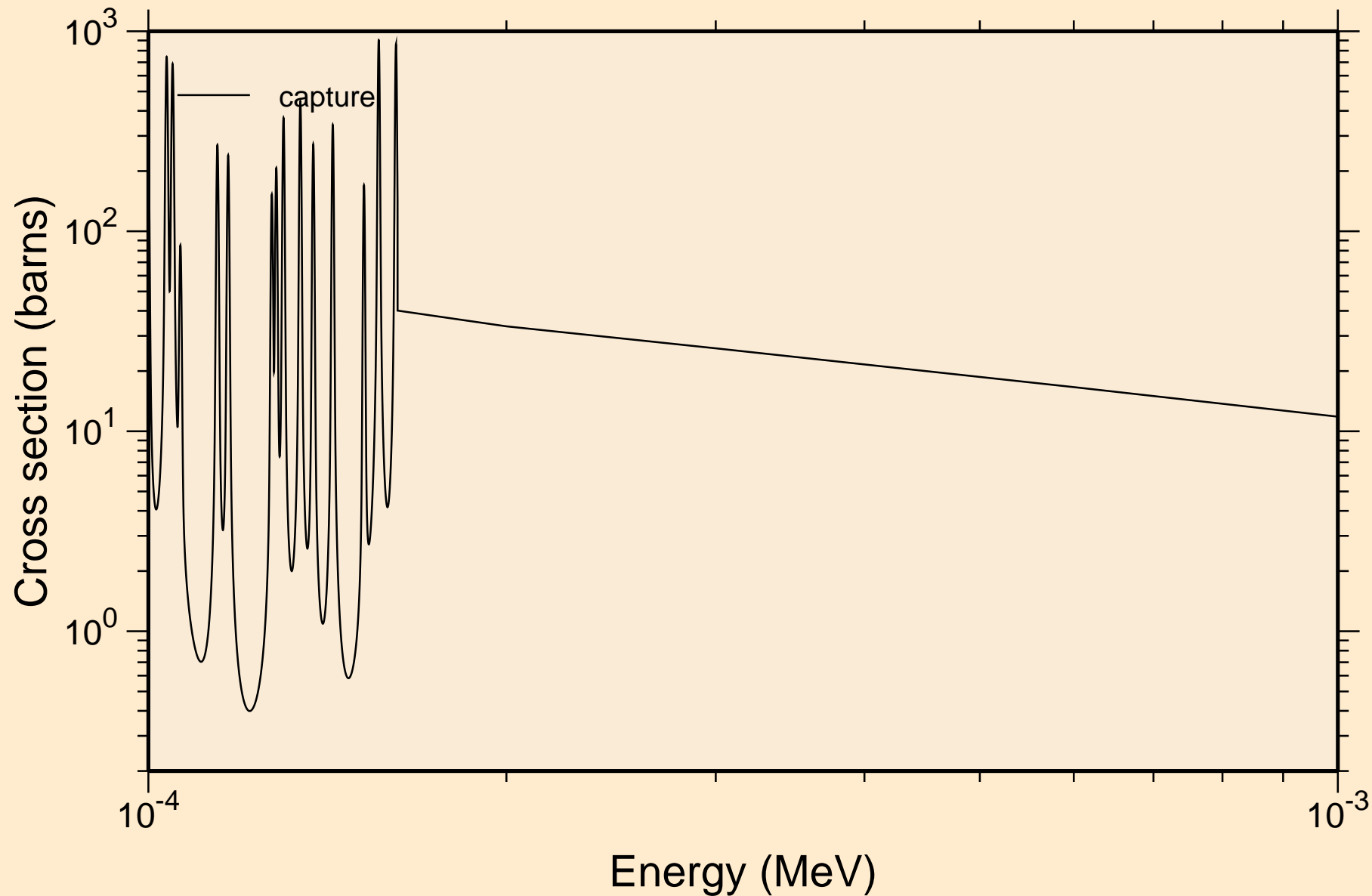




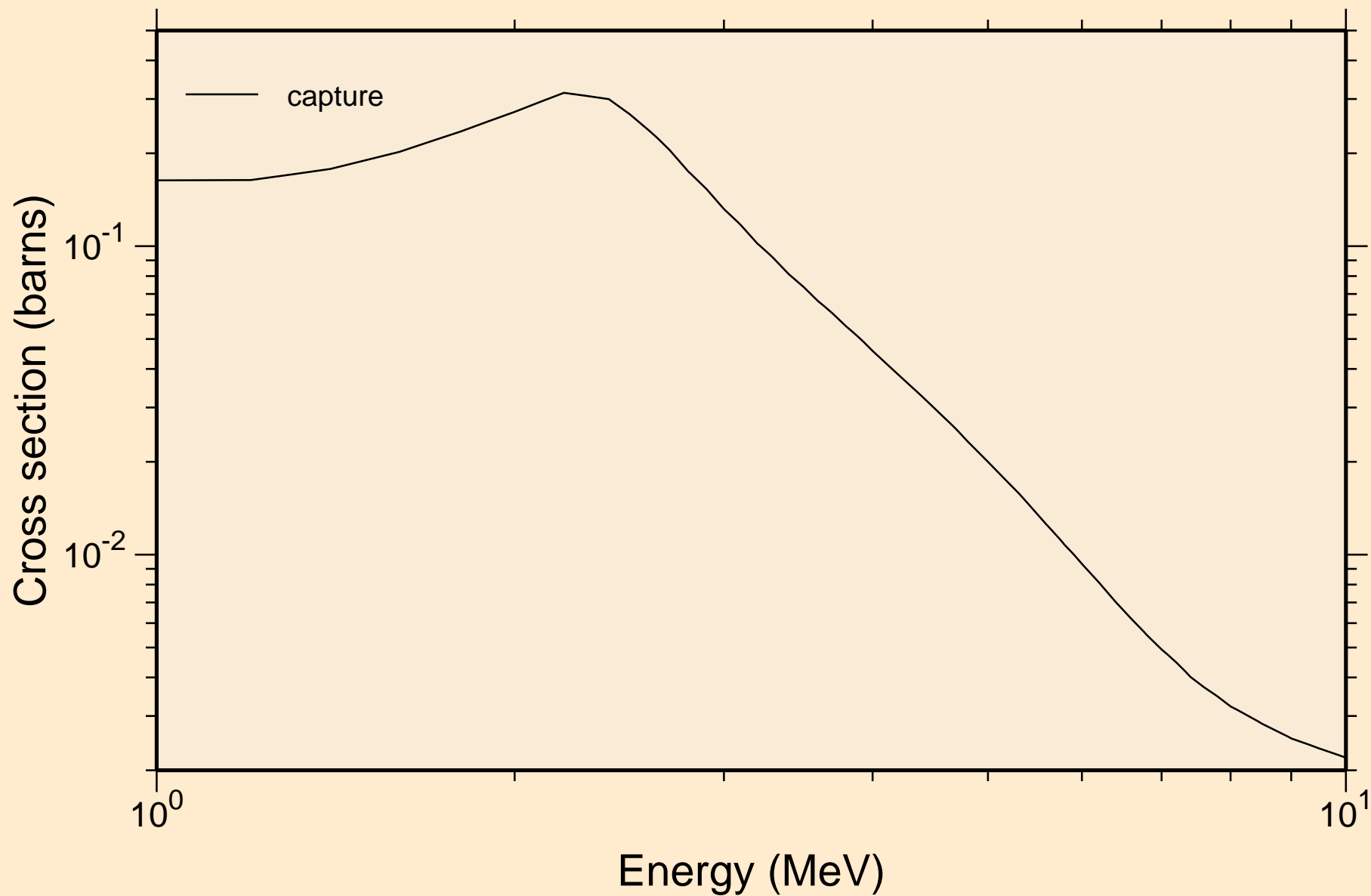
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resonance absorption cross sections



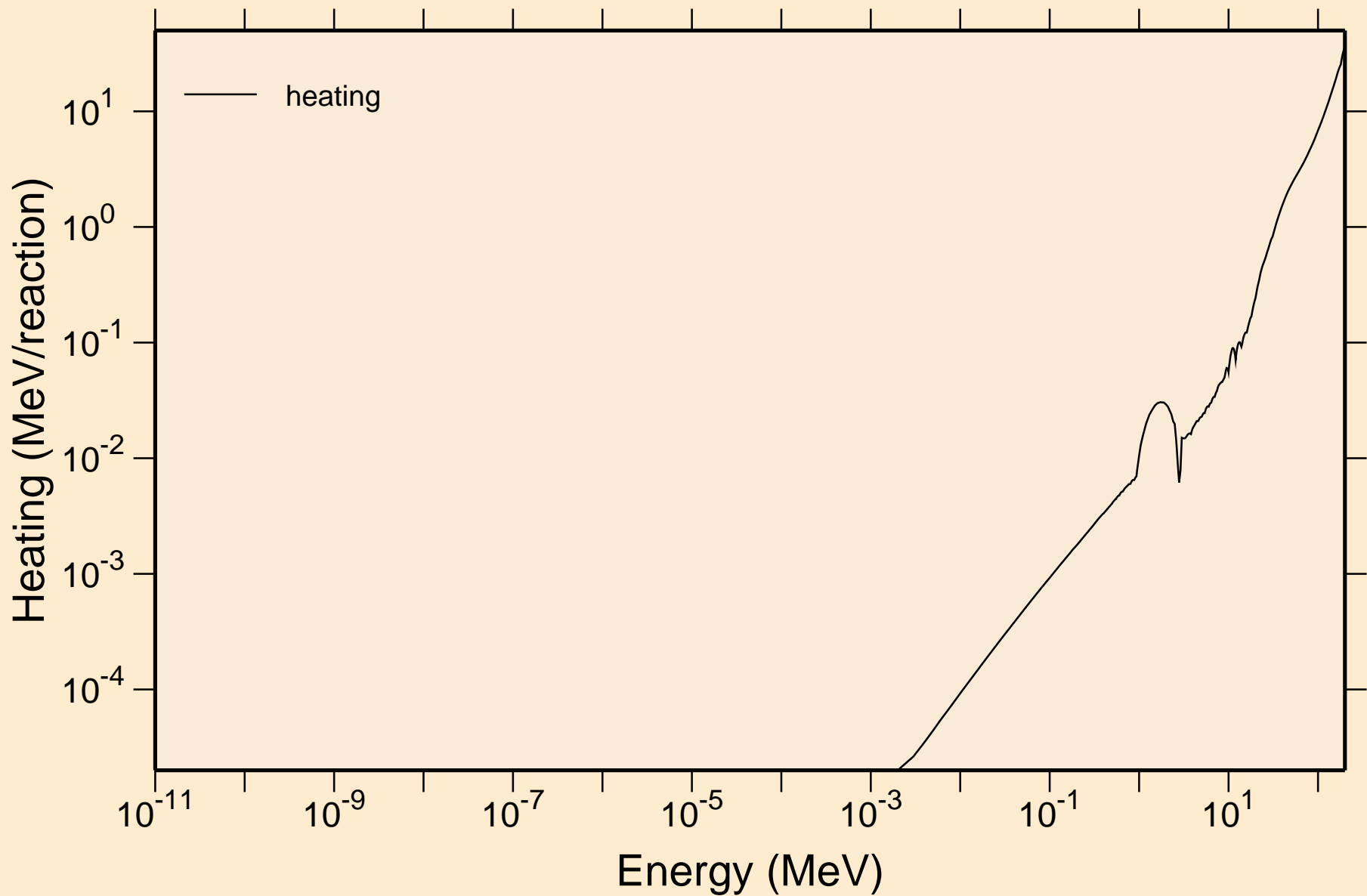
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resonance absorption cross sections



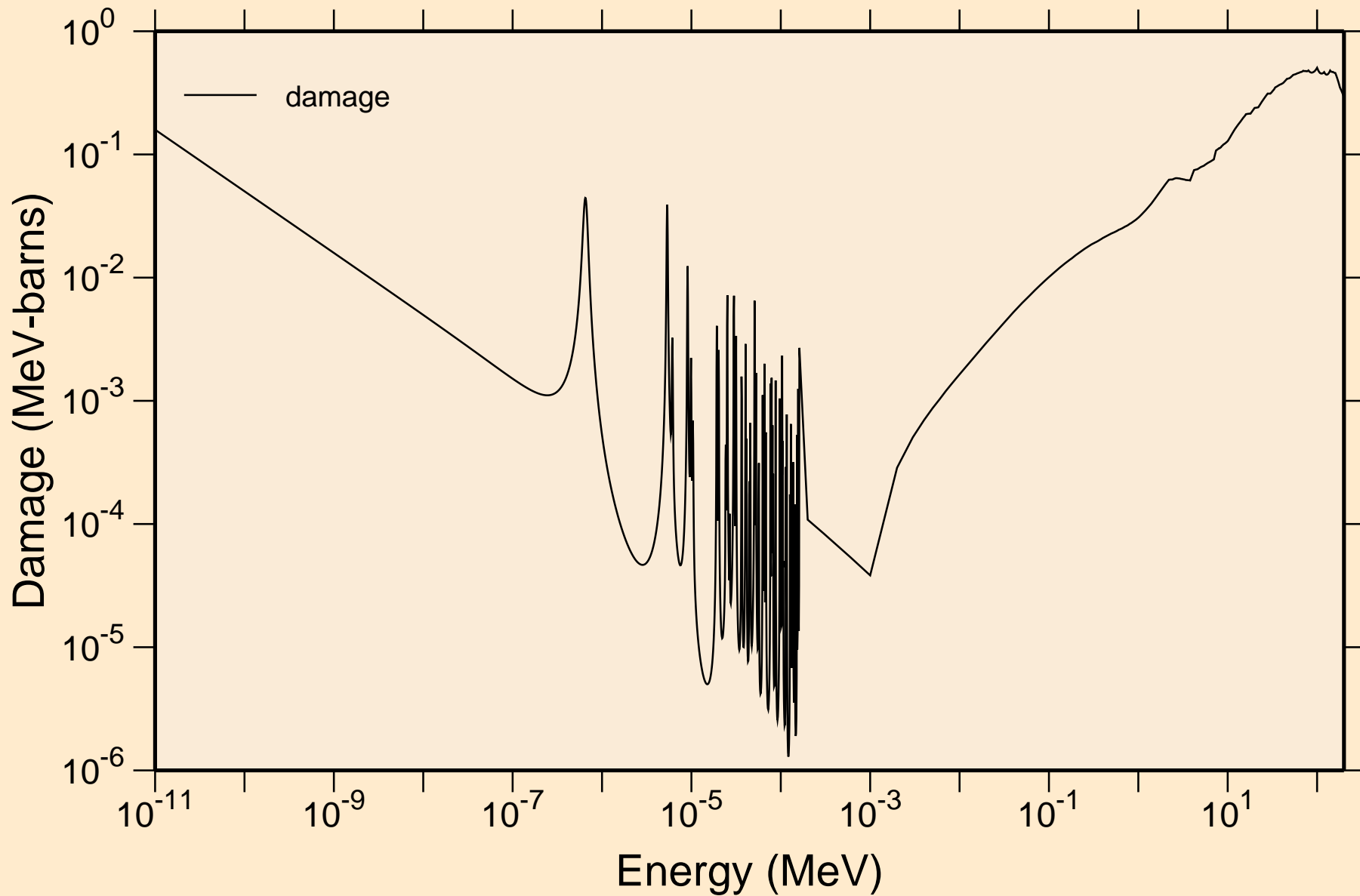
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resonance absorption cross sections



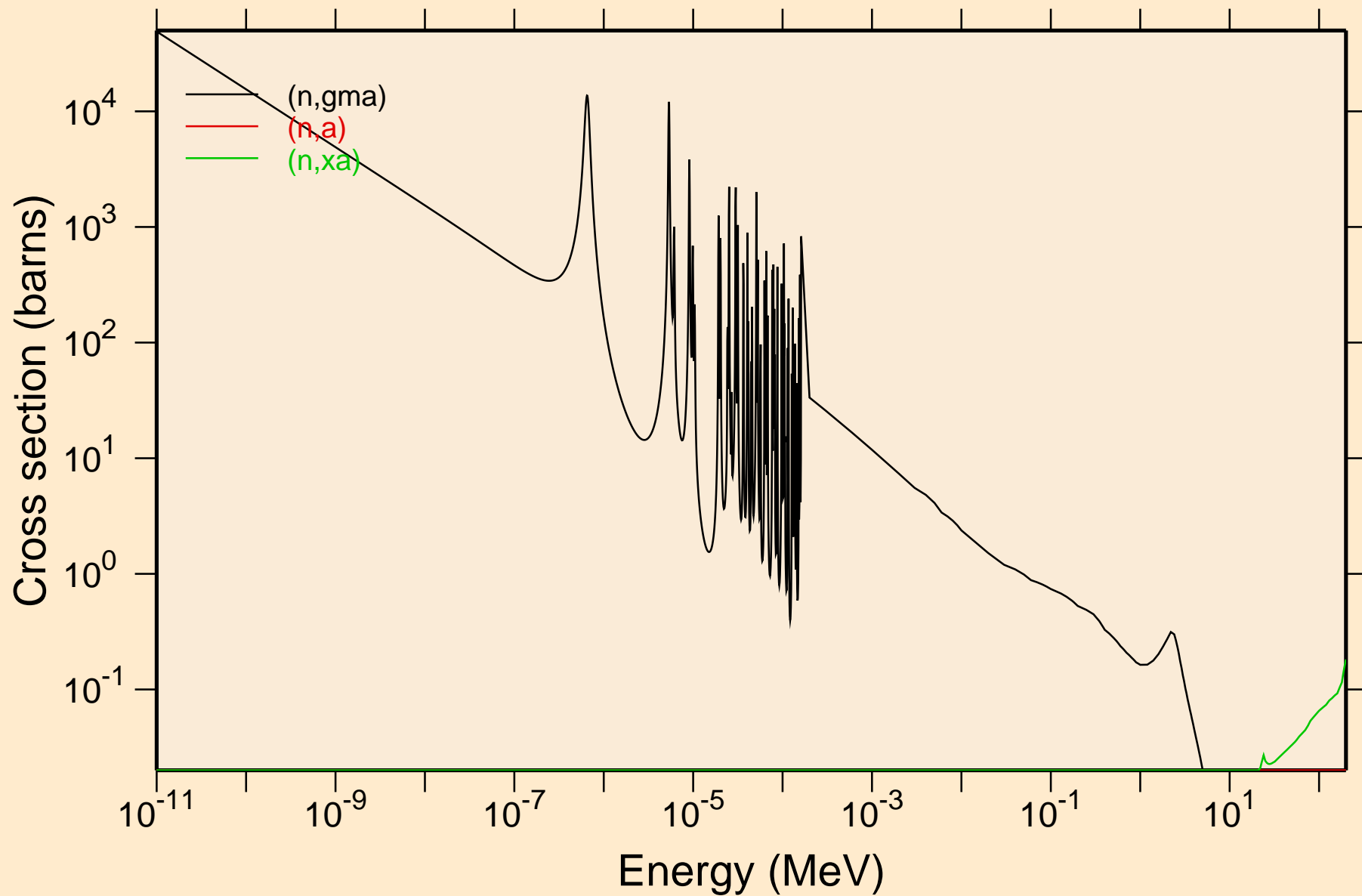
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Heating



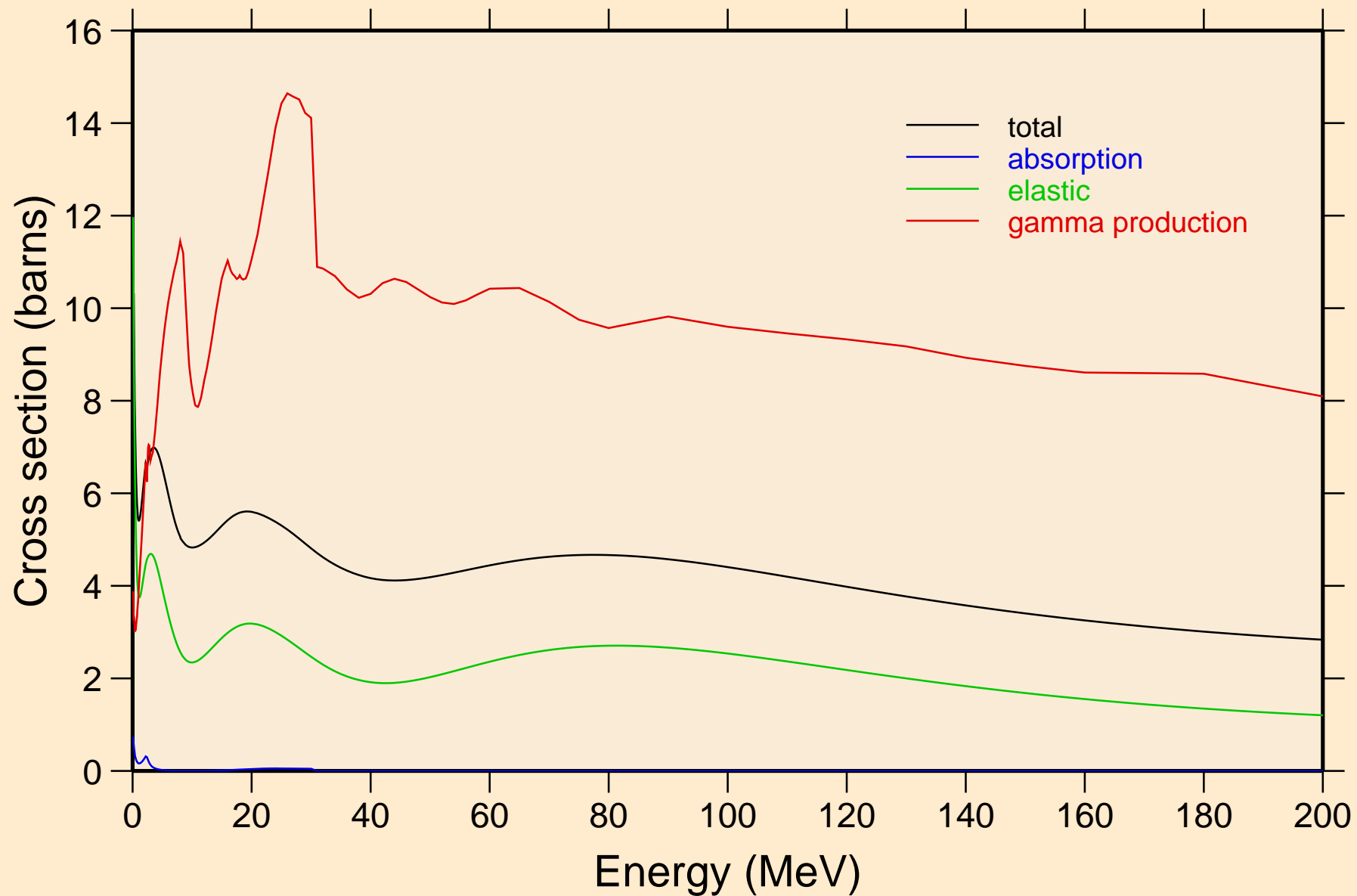
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Damage



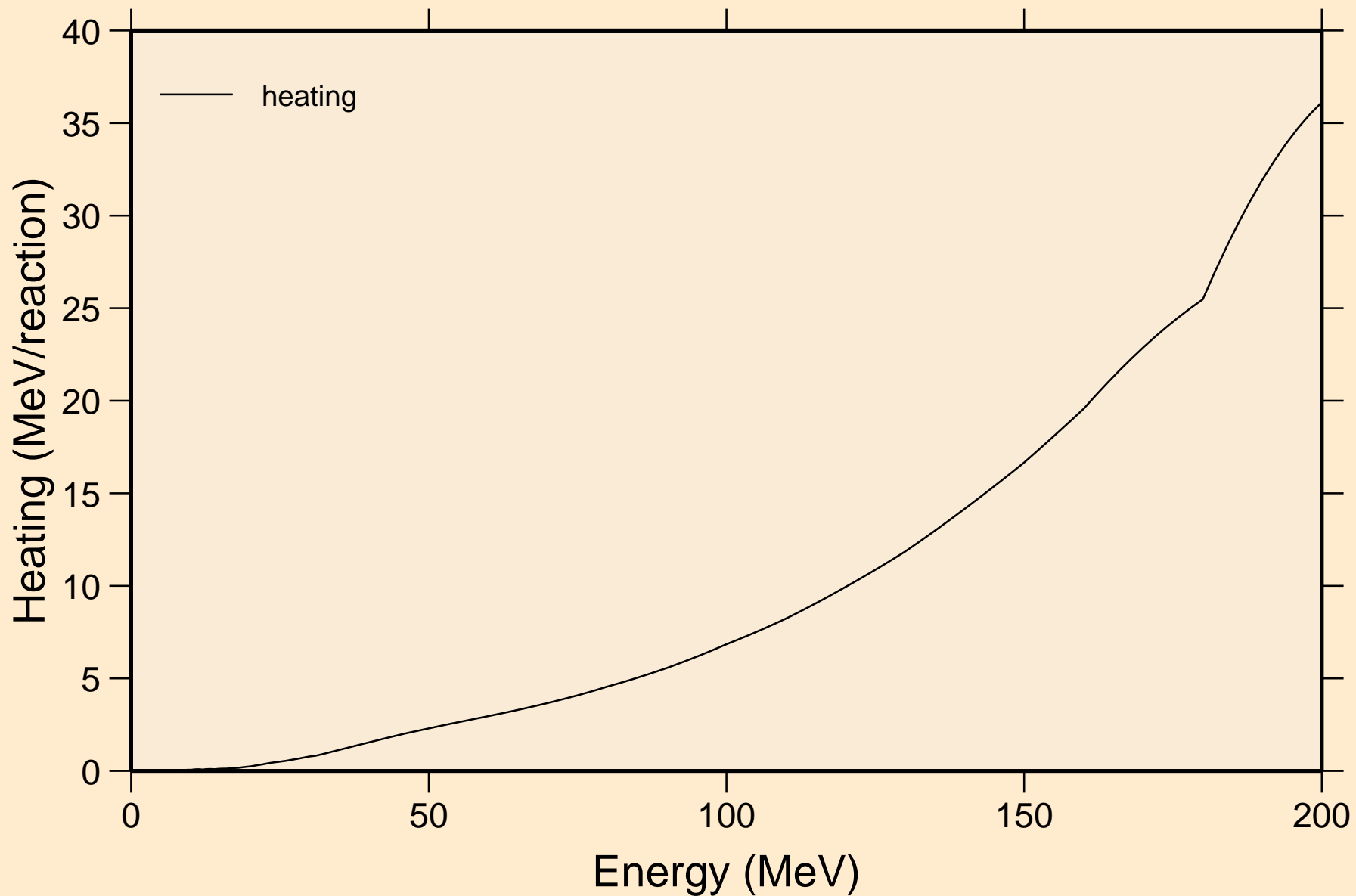
IR191 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Non-threshold reactions



IR191 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Principal cross sections

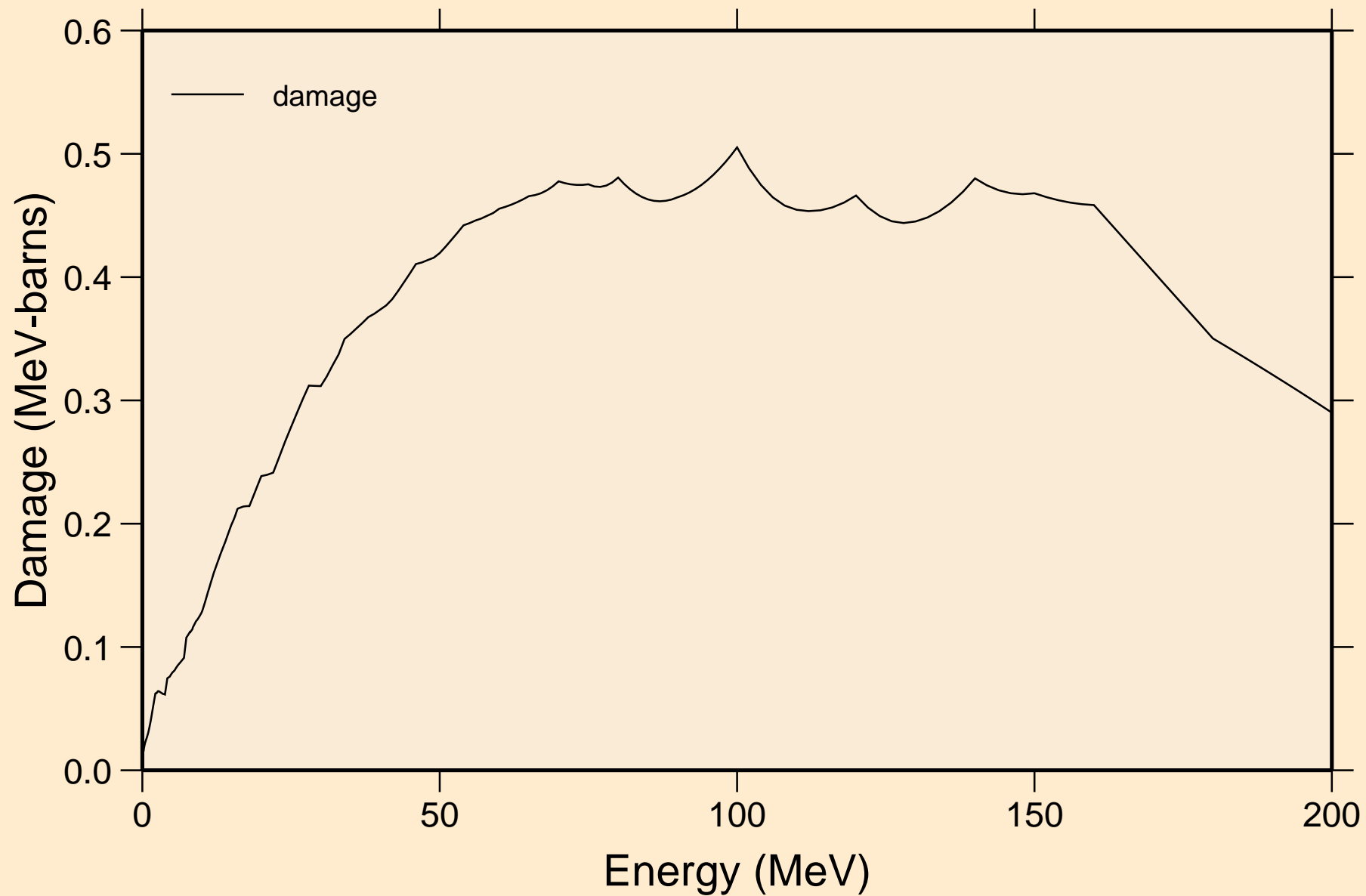


IR191 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Heating

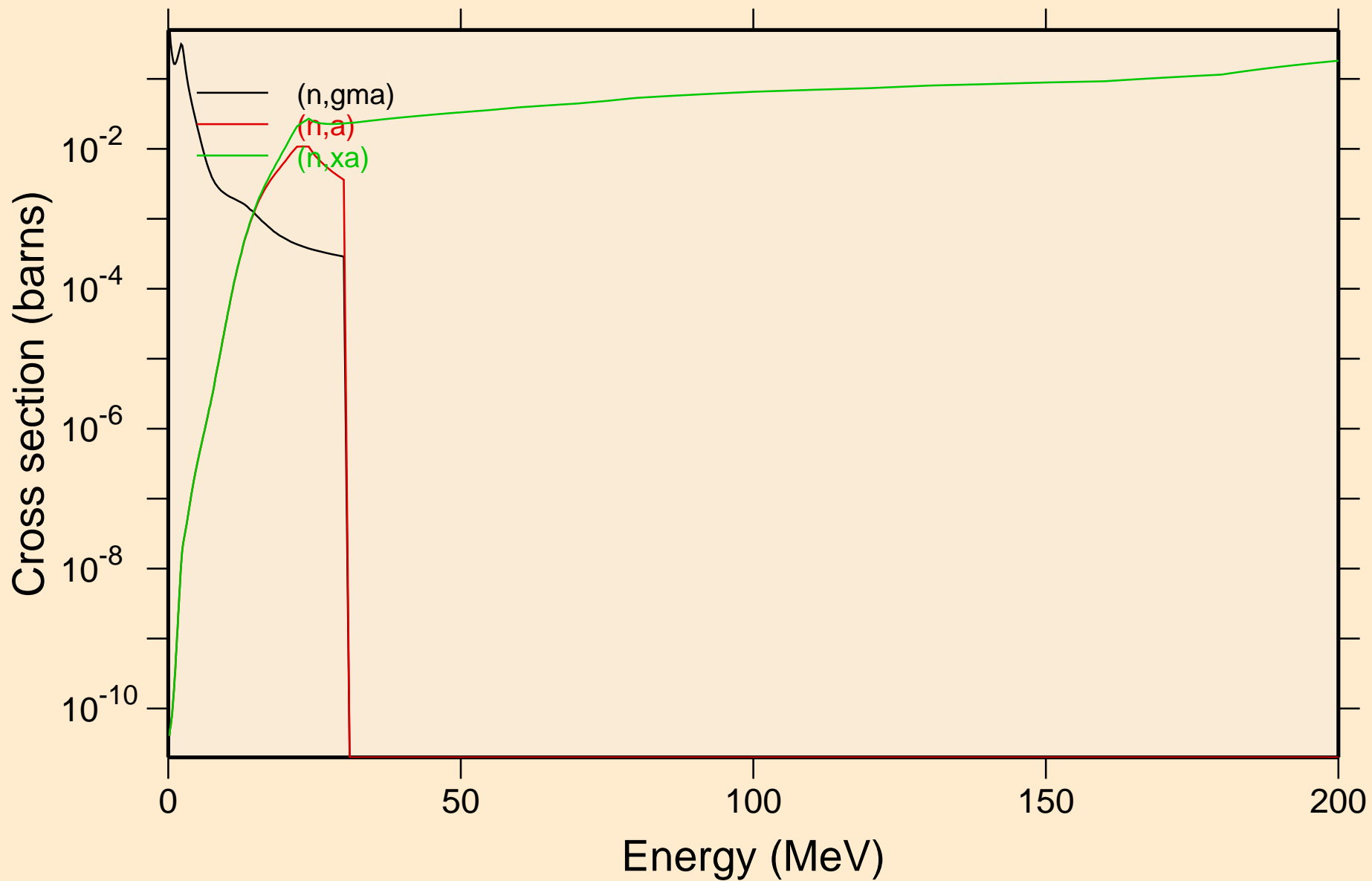




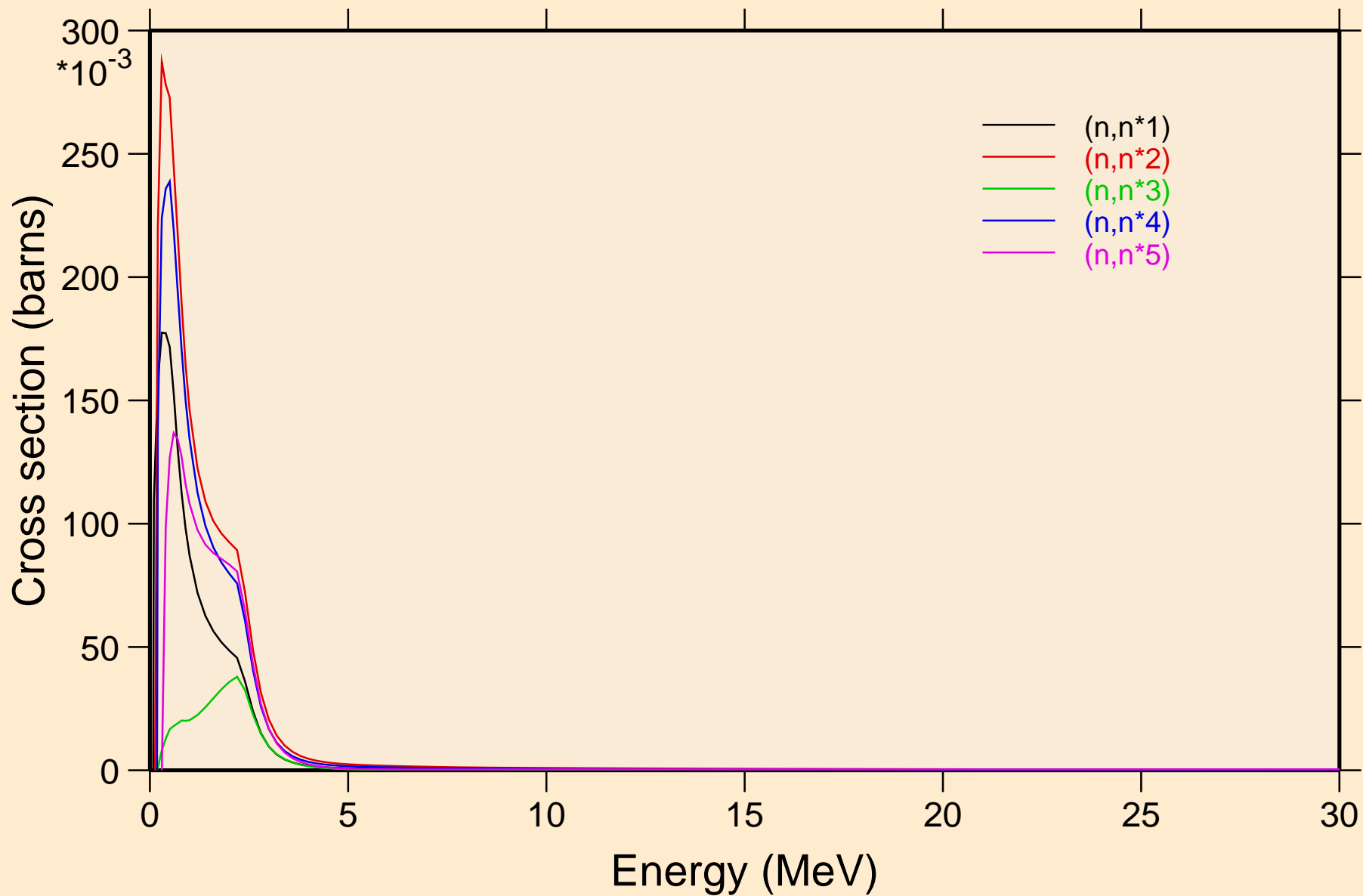
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Damage



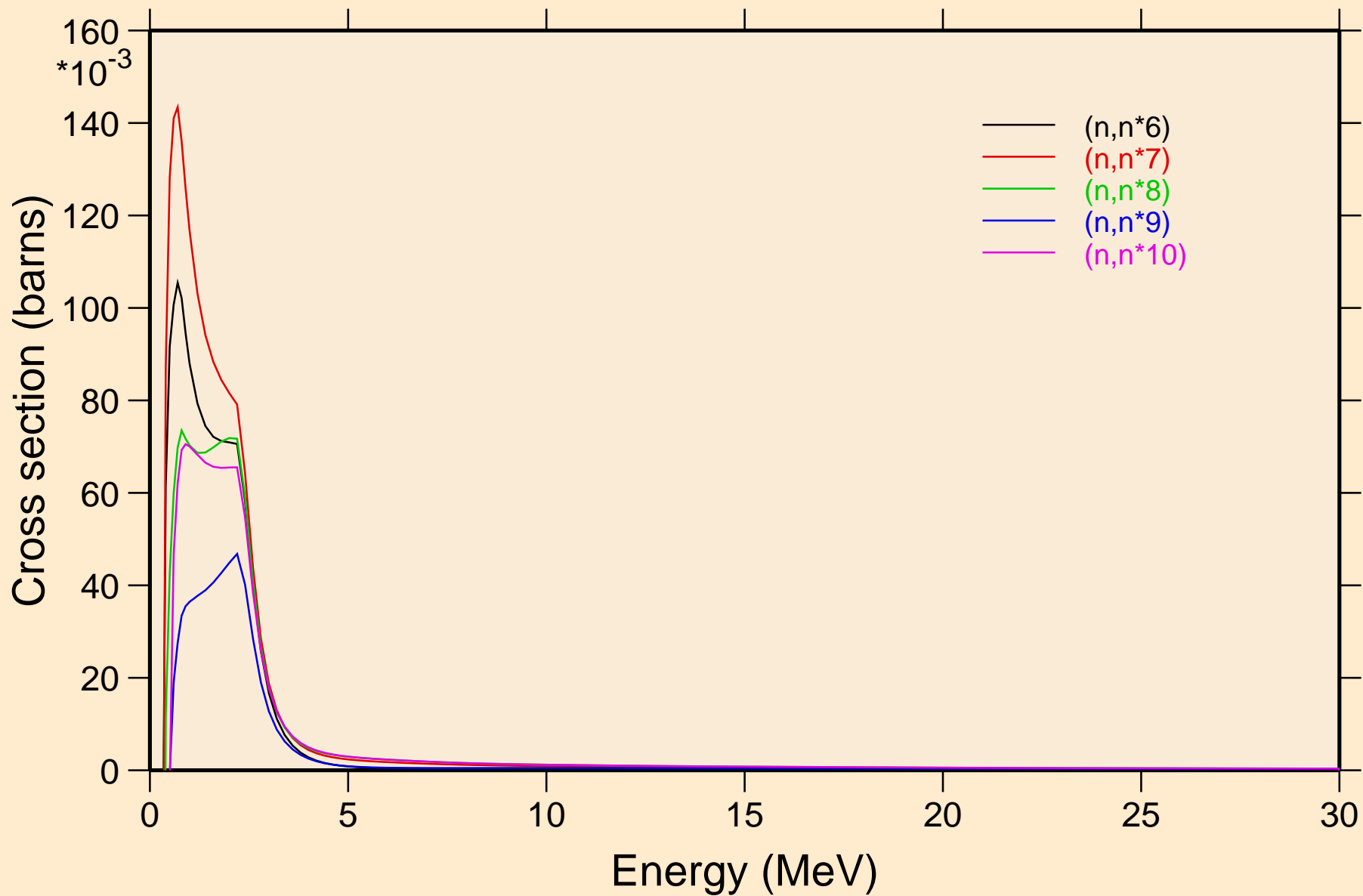
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Non-threshold reactions



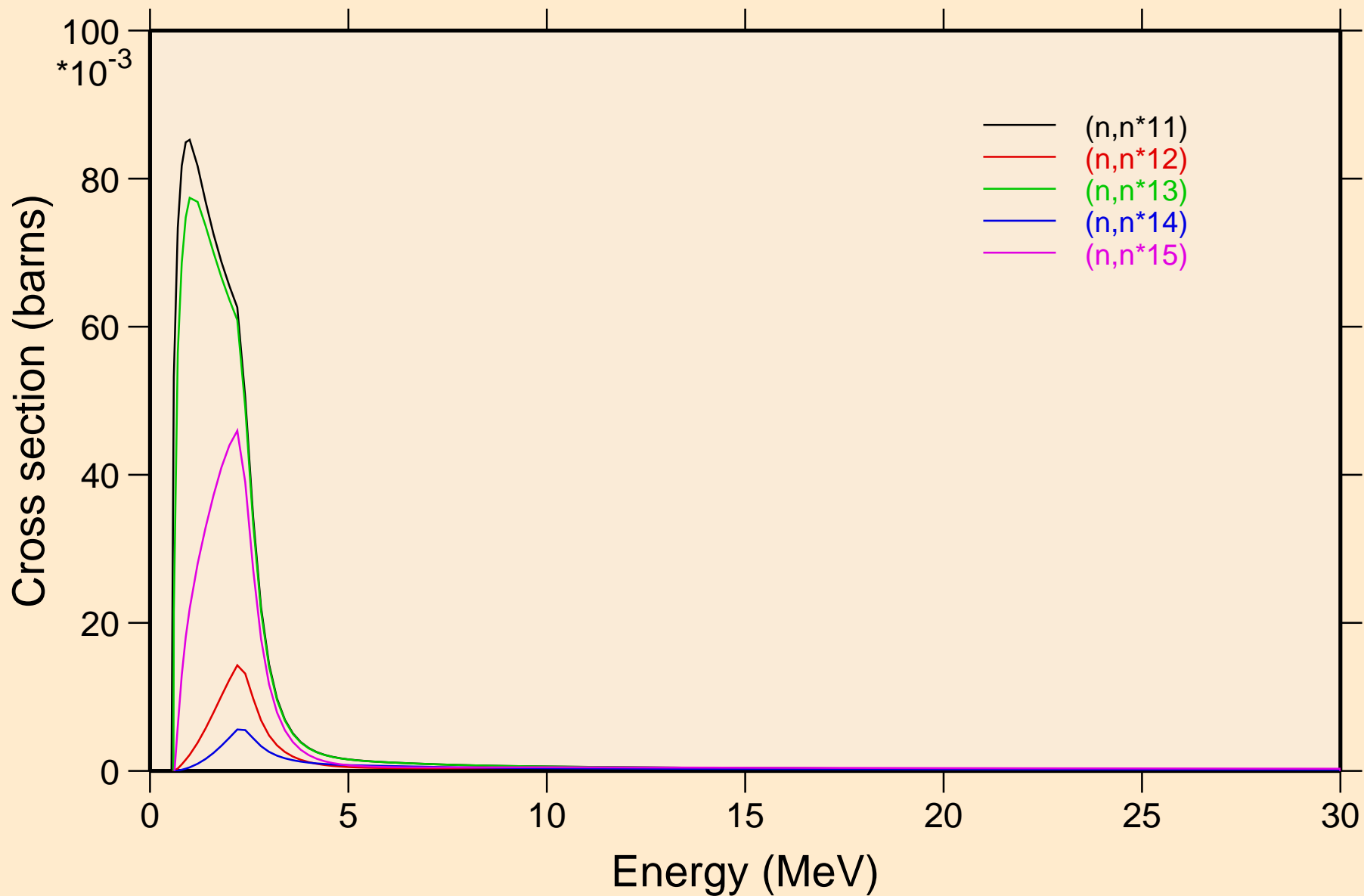
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Inelastic levels



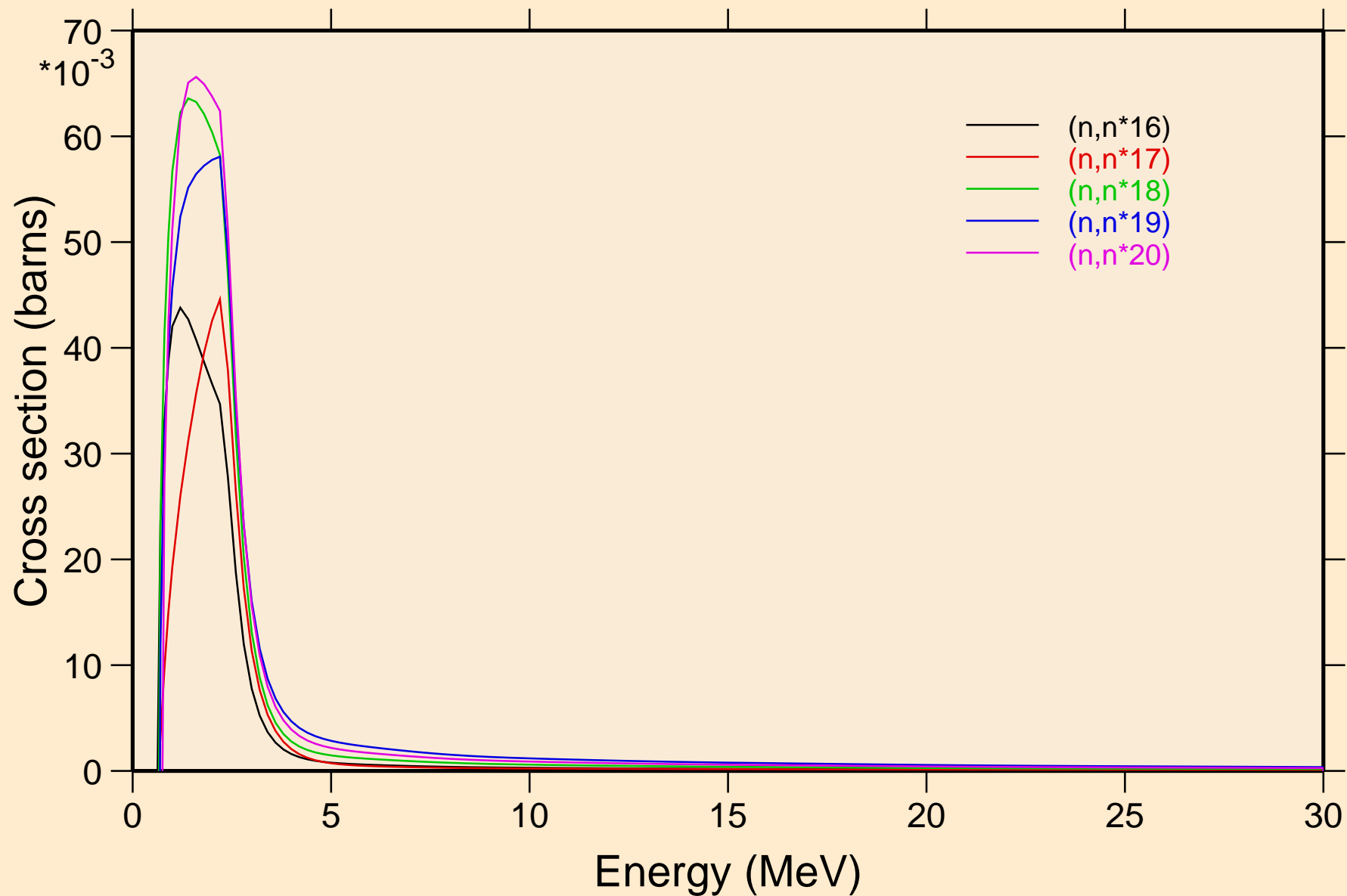
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Inelastic levels



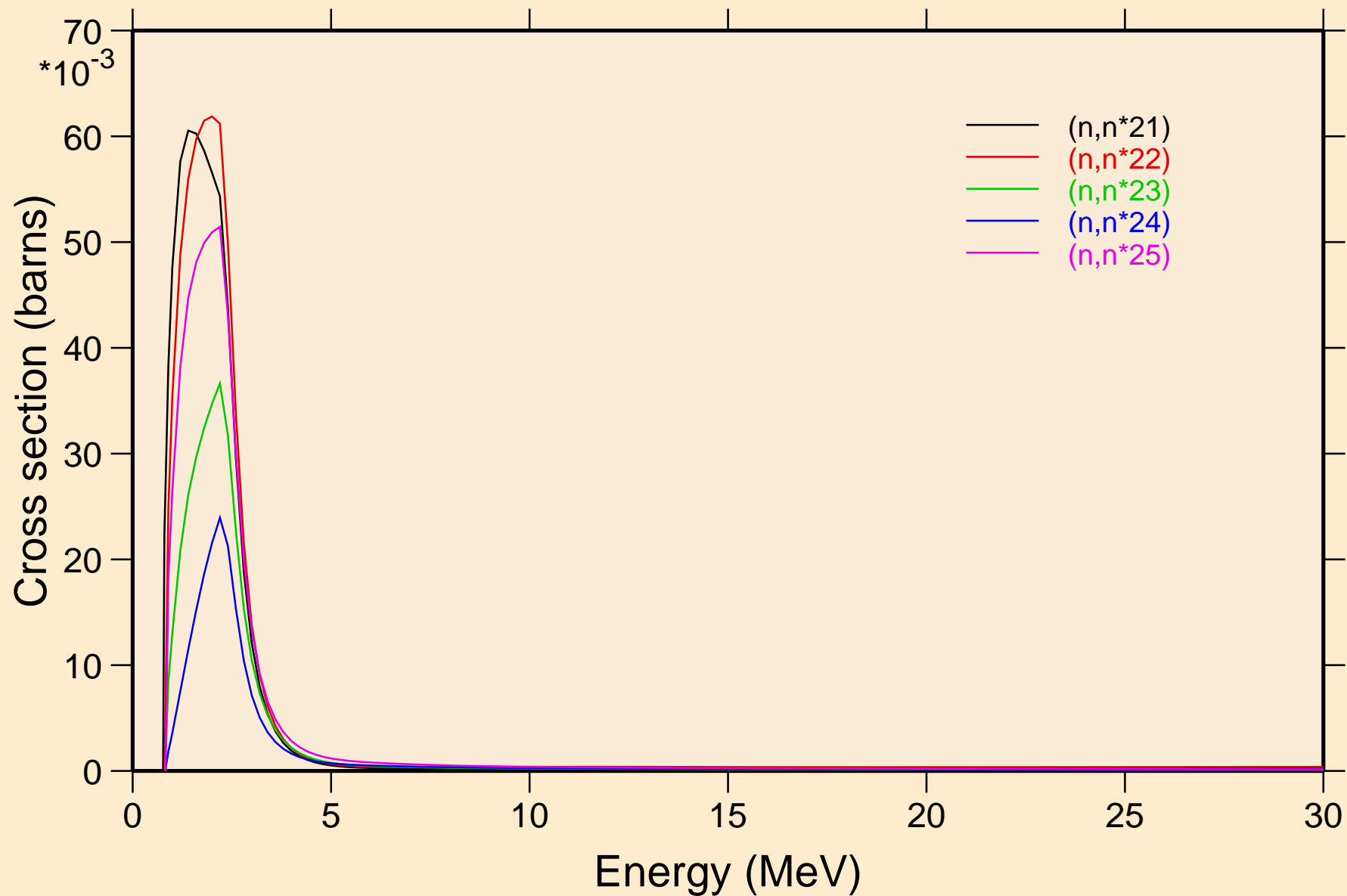
IR191 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Inelastic levels



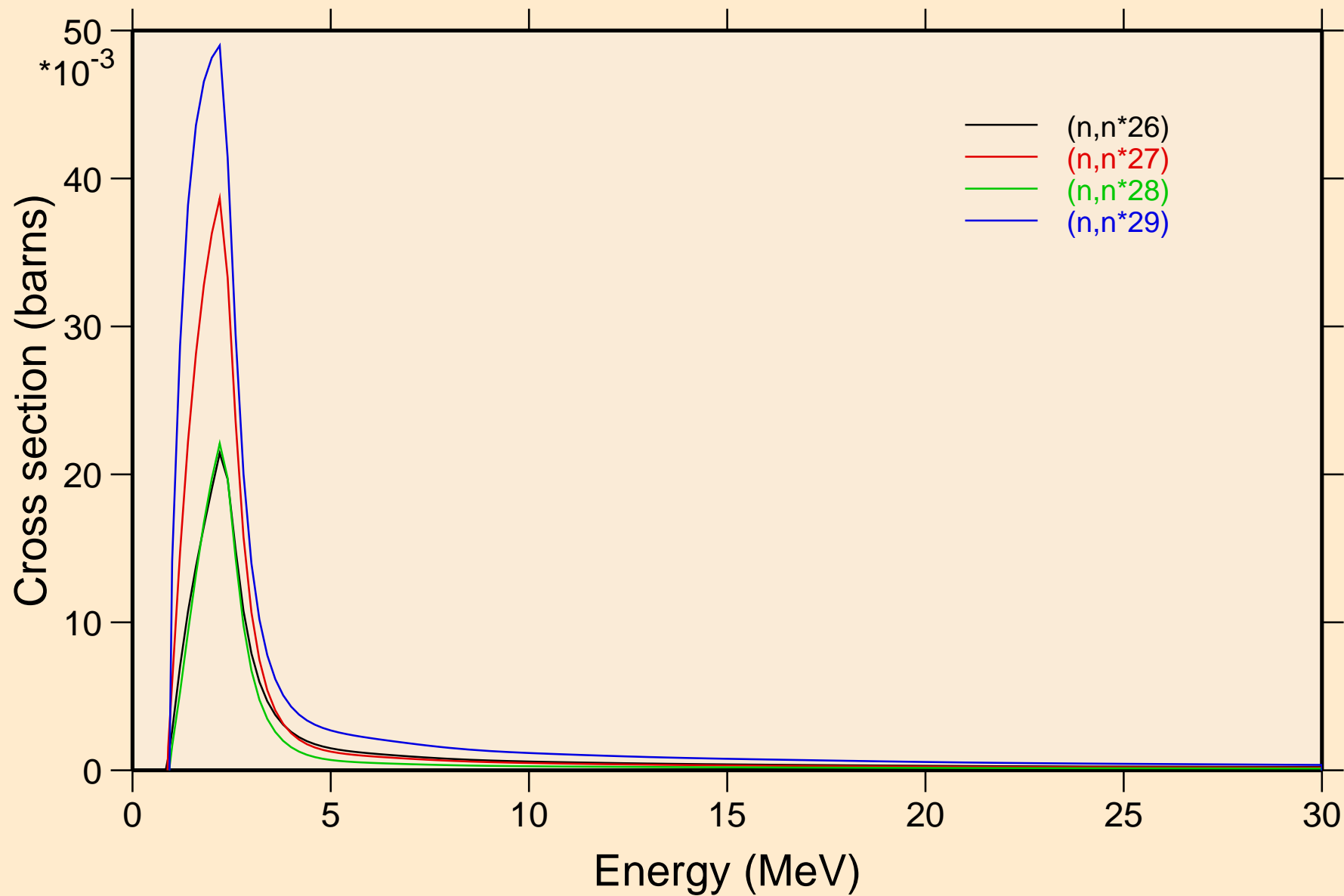
IR191 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Inelastic levels



IR191 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Inelastic levels

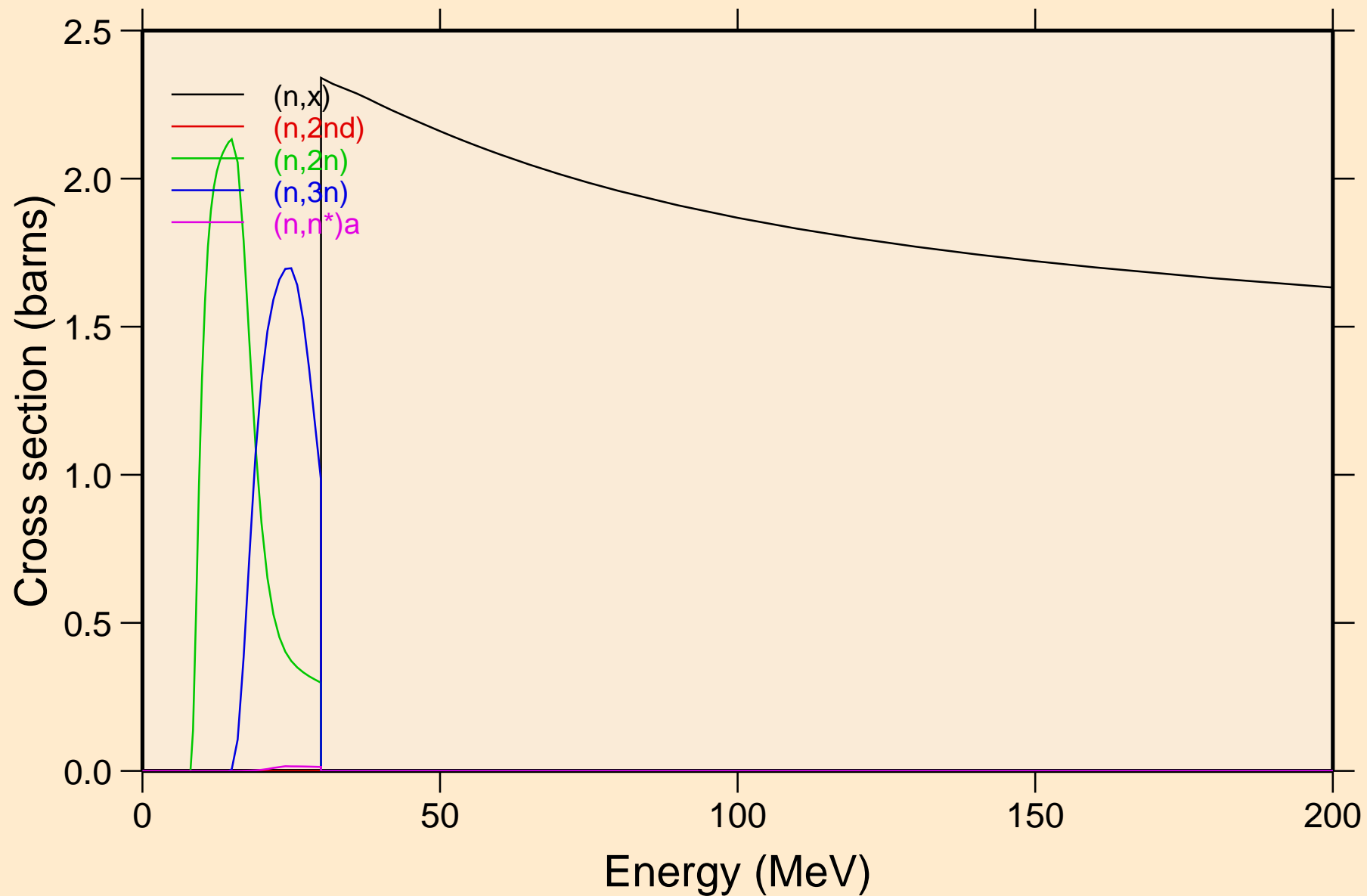


IR191 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Inelastic levels

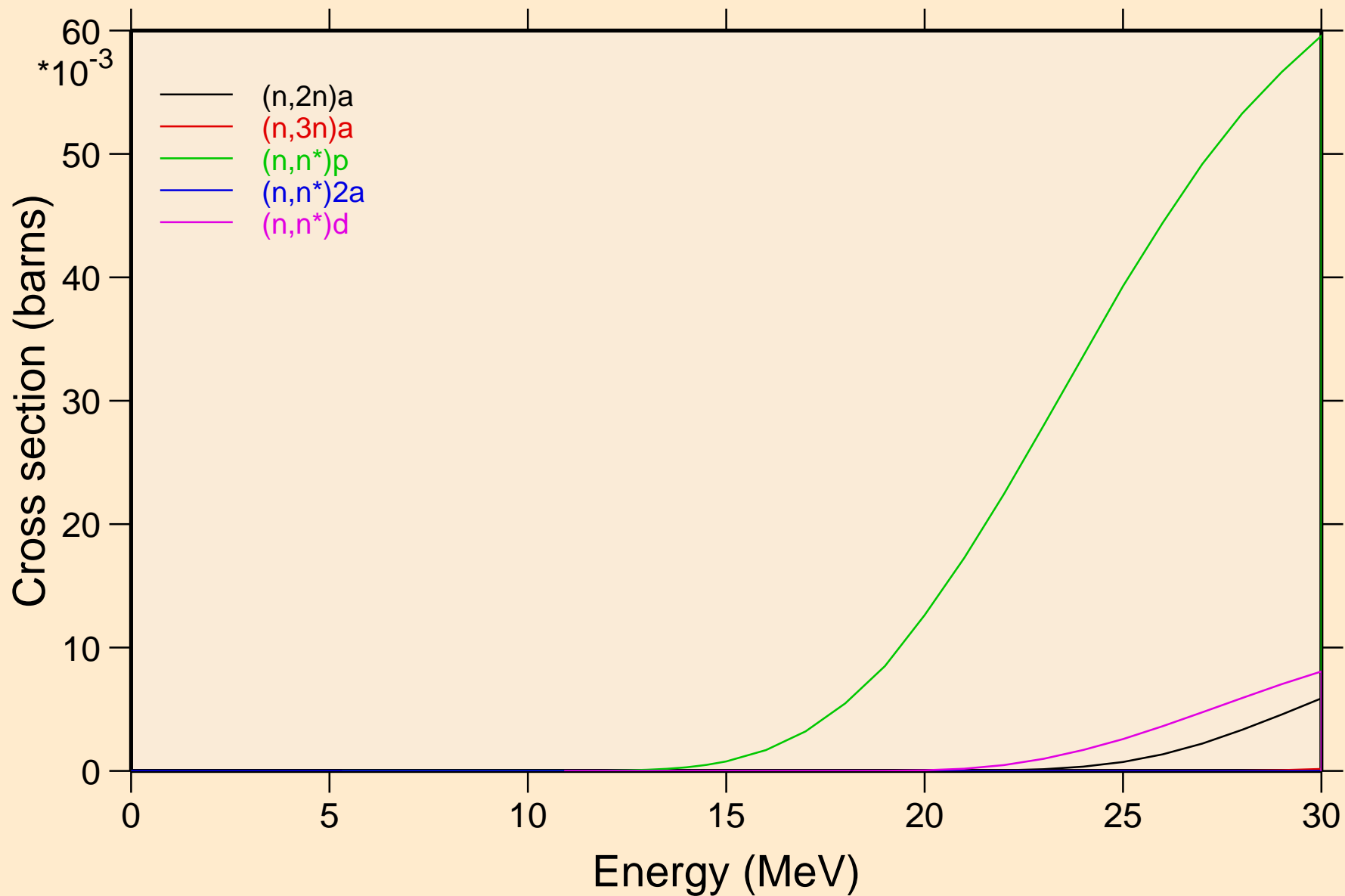




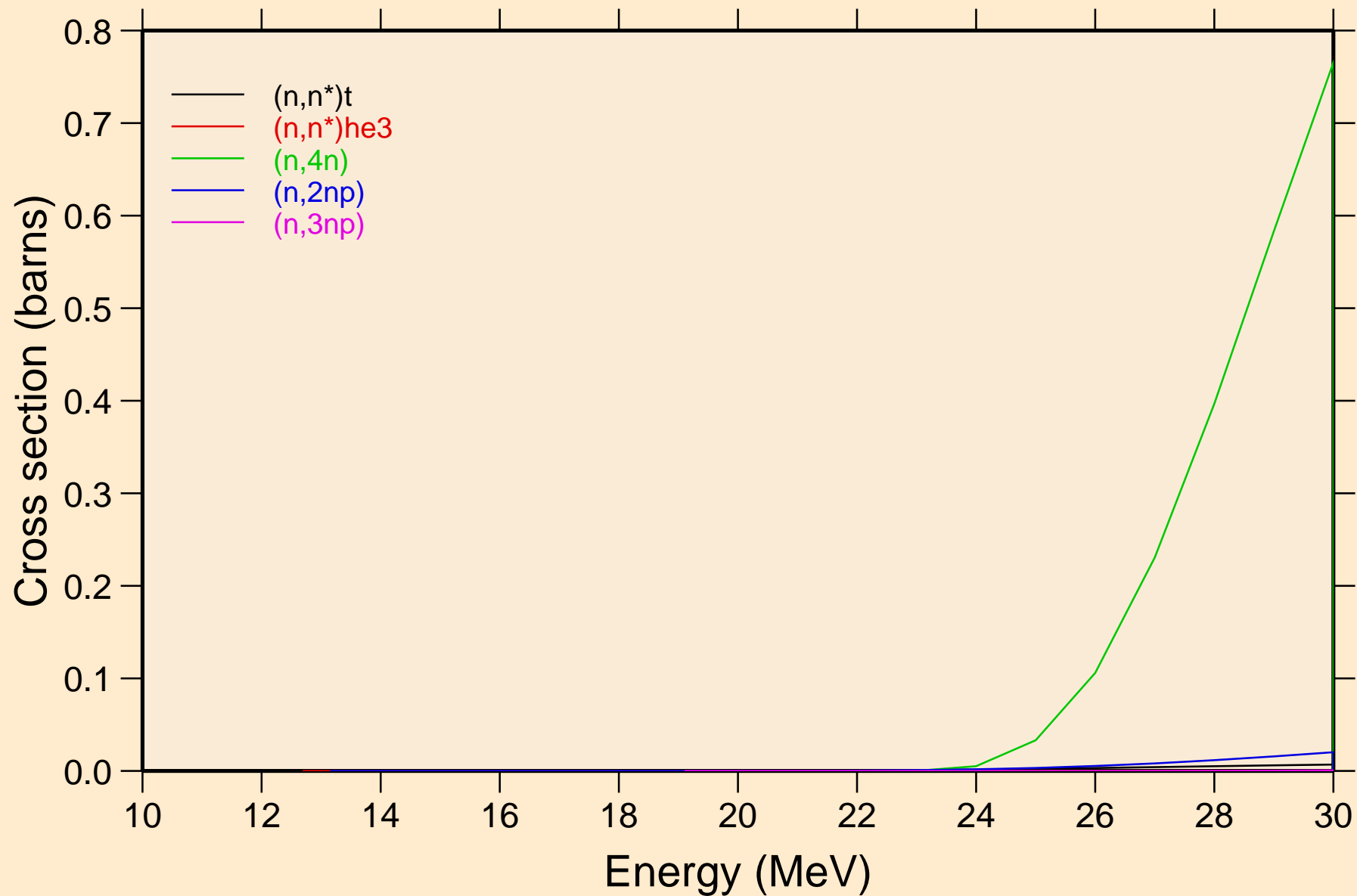
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Threshold reactions



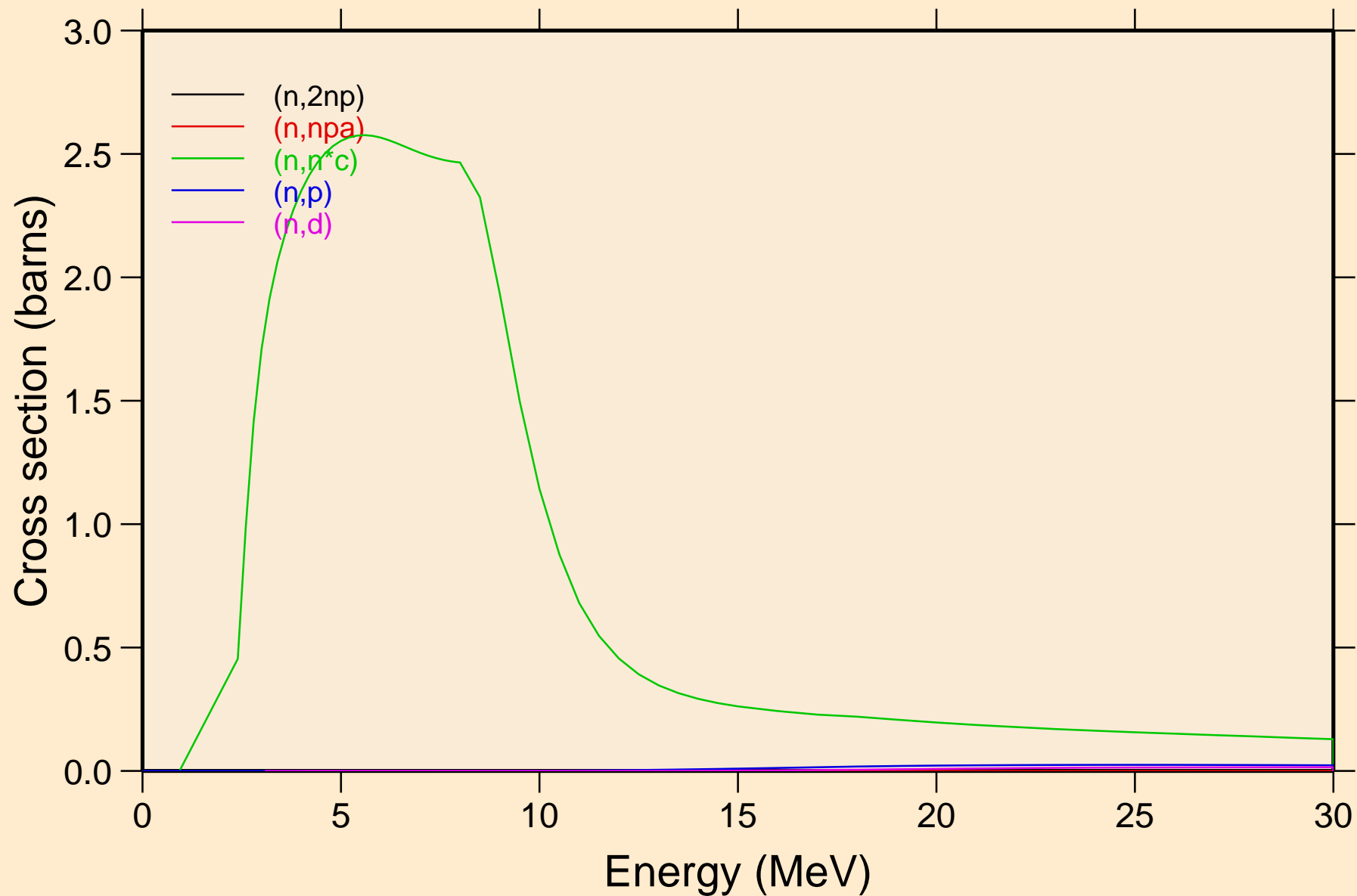
IR191 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Threshold reactions



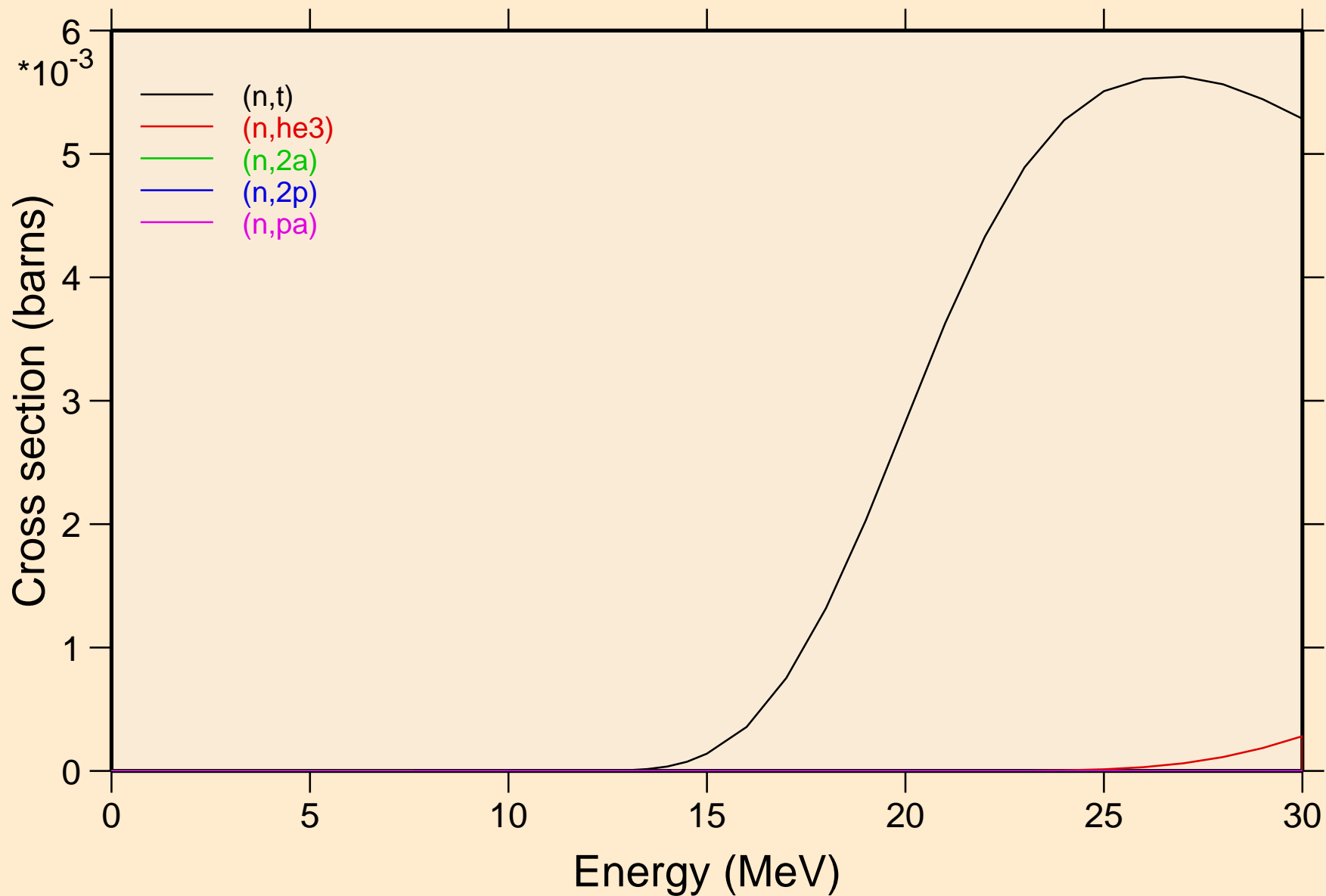
IR191 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Threshold reactions



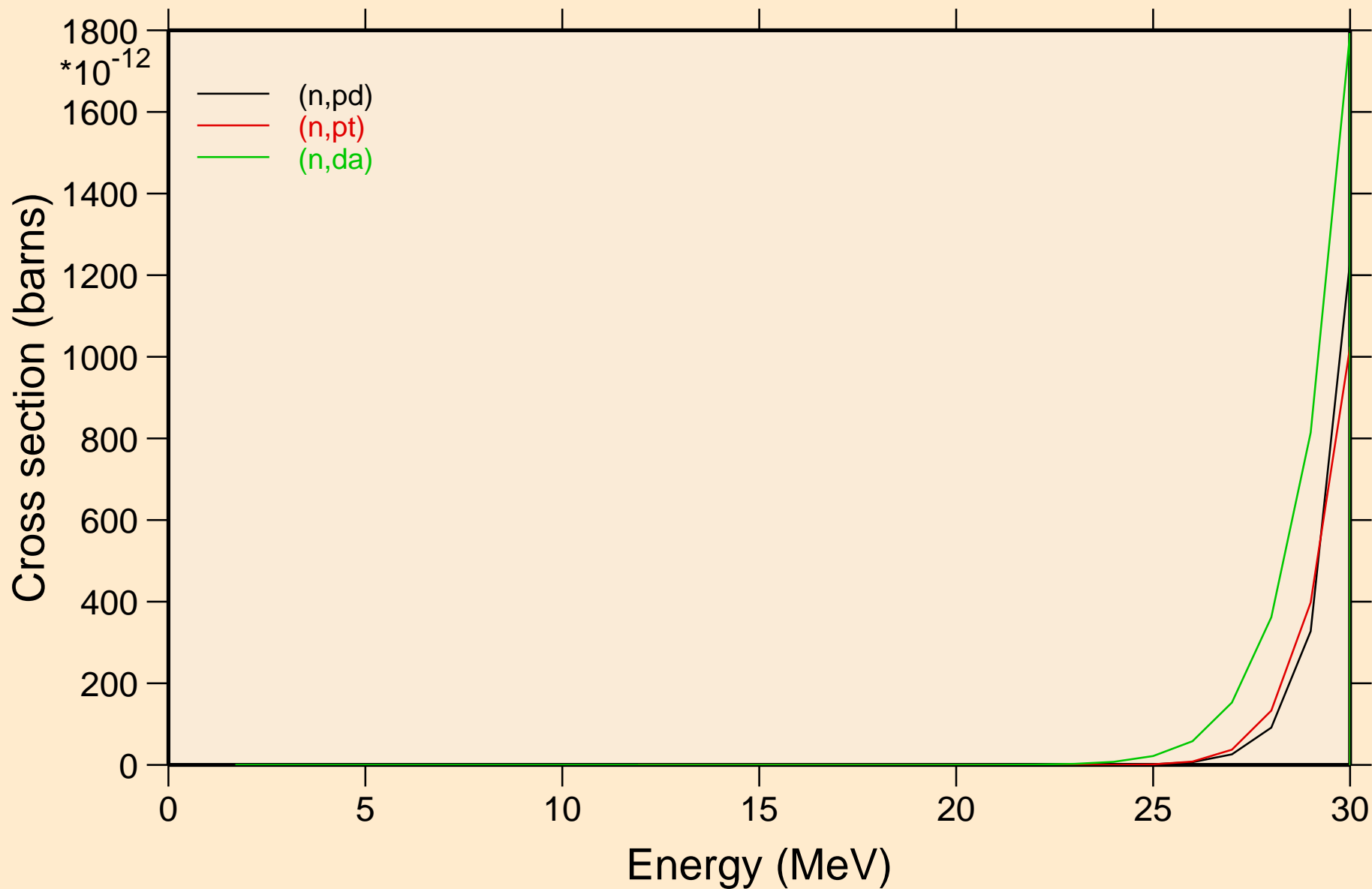
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Threshold reactions



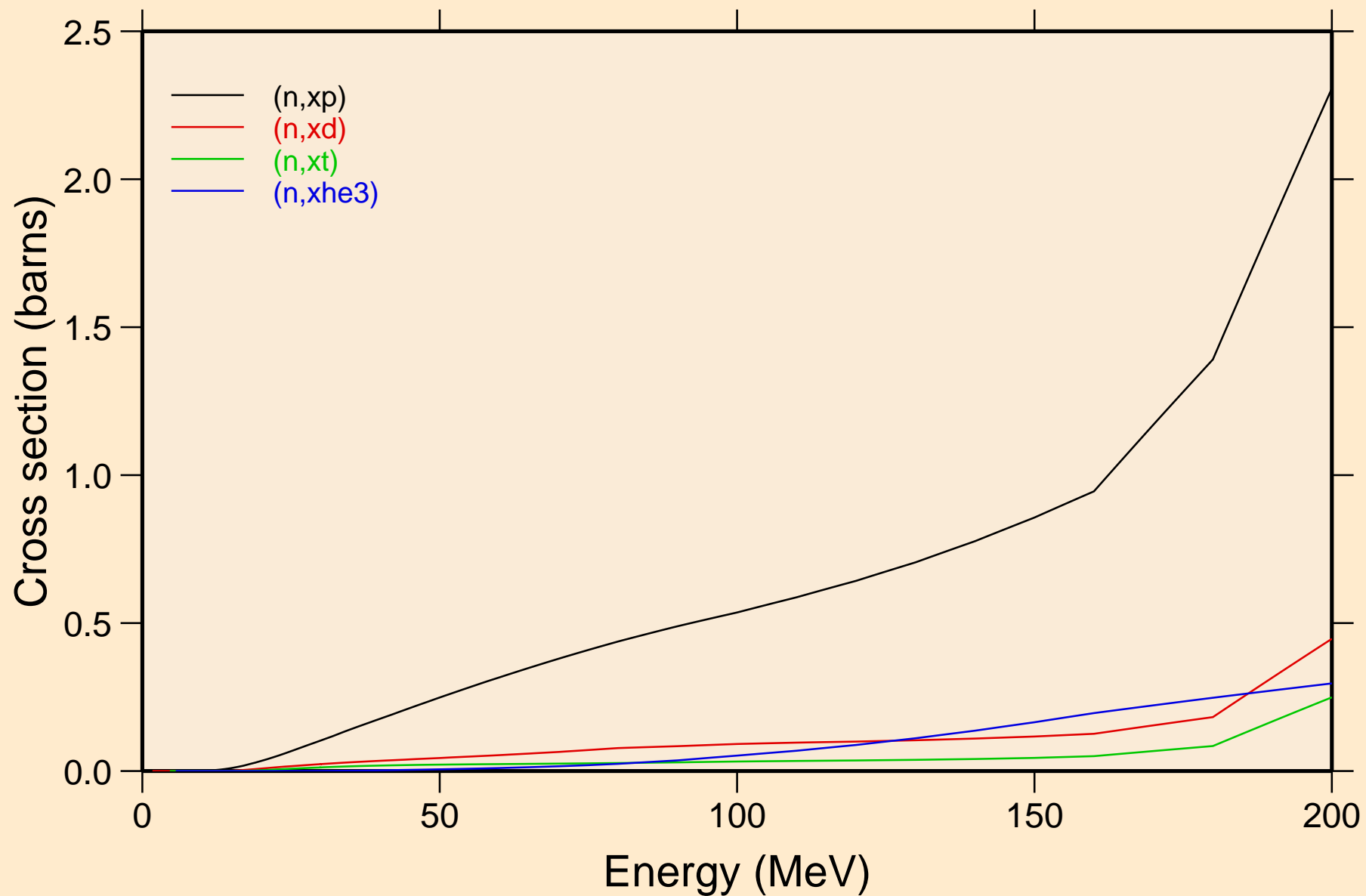
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Threshold reactions



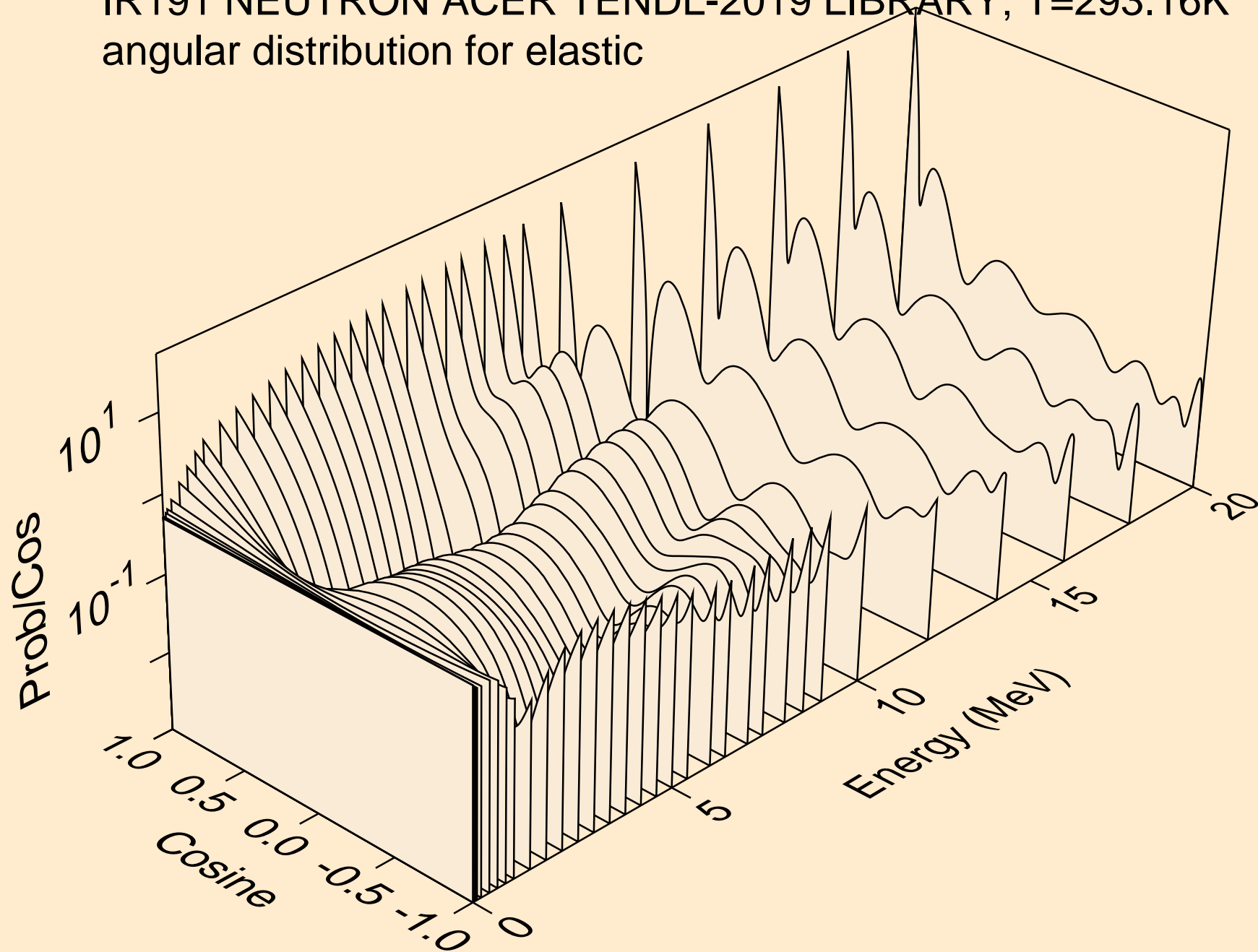
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Threshold reactions



IR191 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Threshold reactions

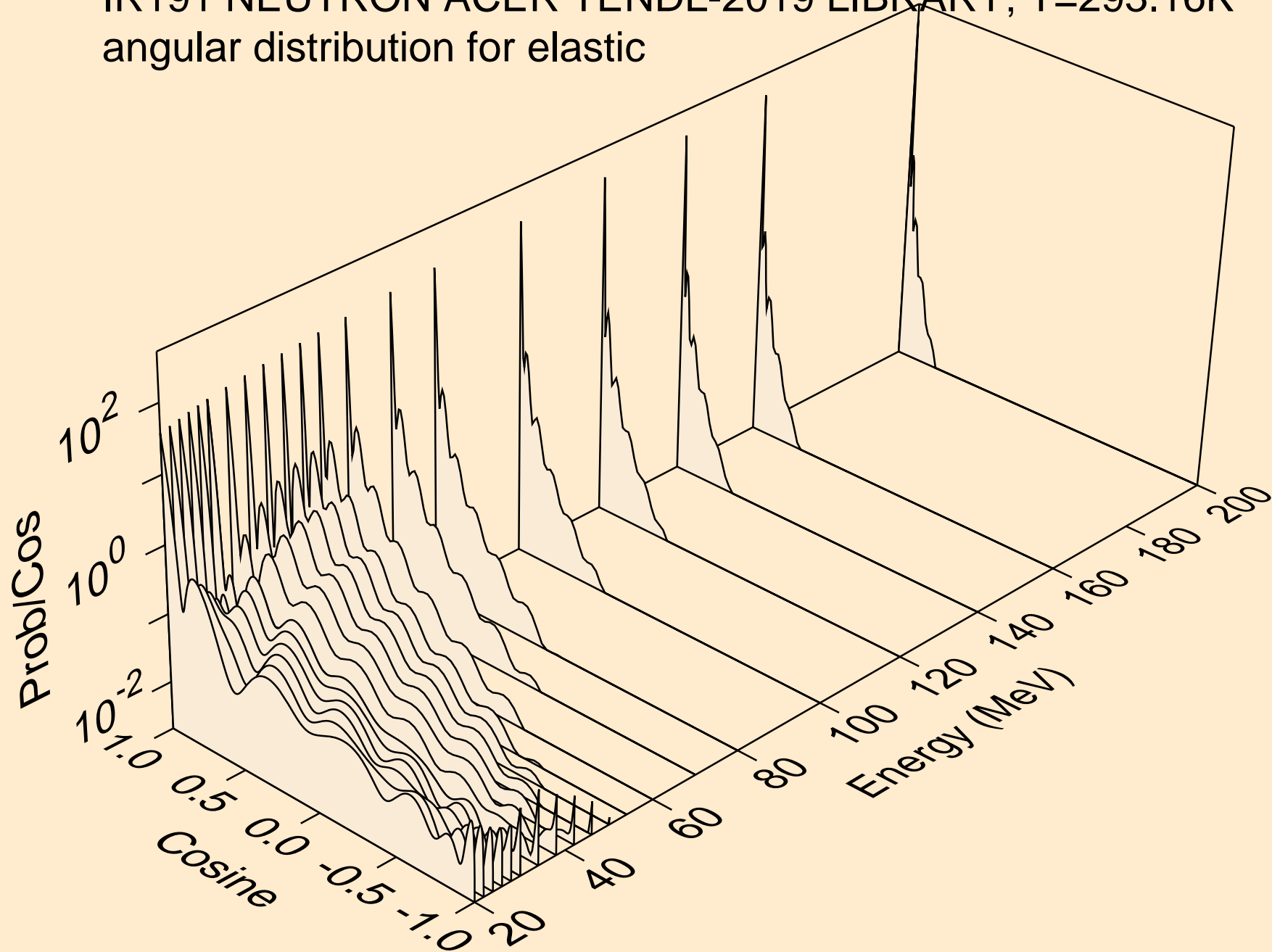


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angular distribution for elastic

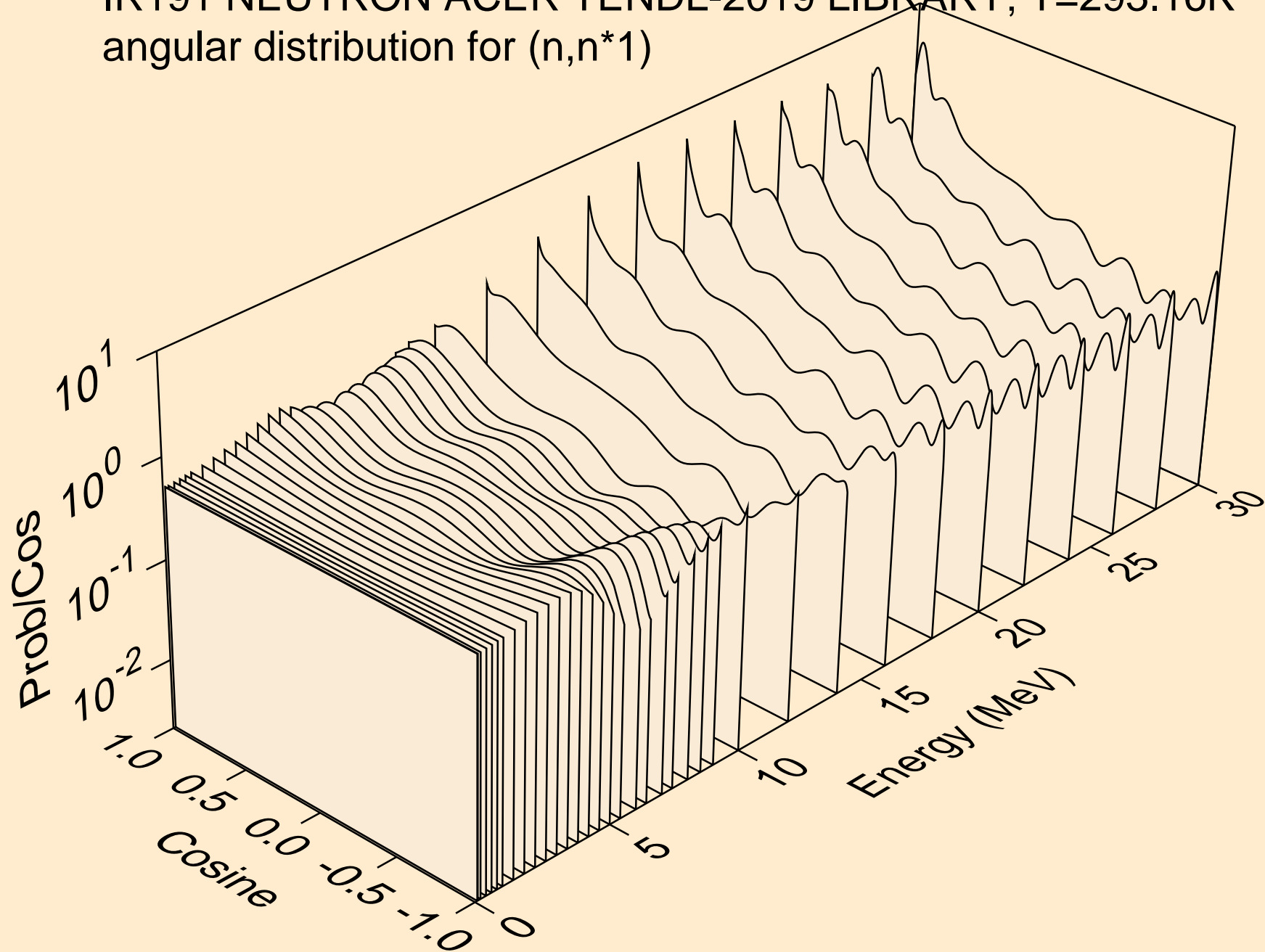




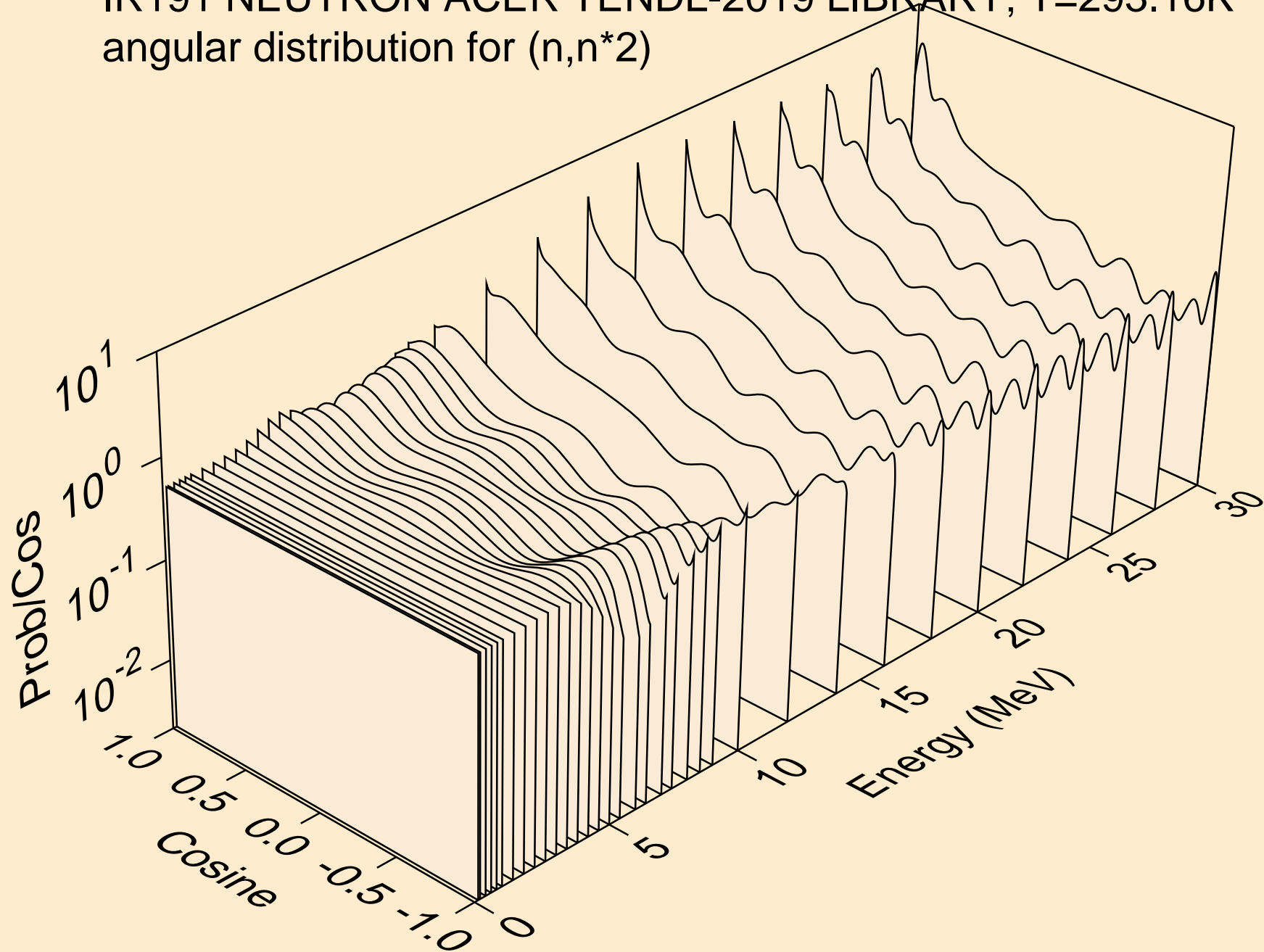
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angular distribution for elastic



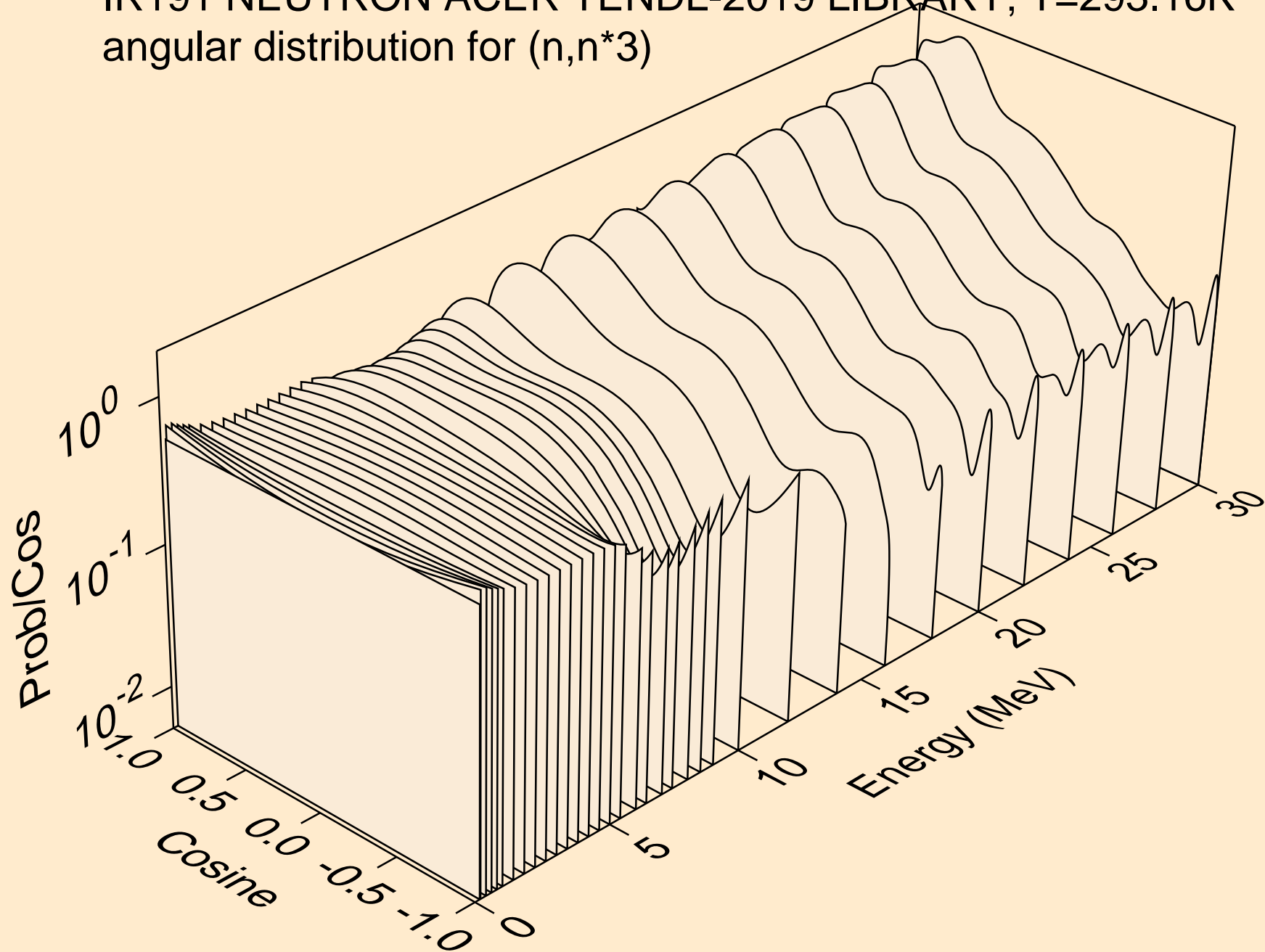
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angular distribution for (n,n\*1)



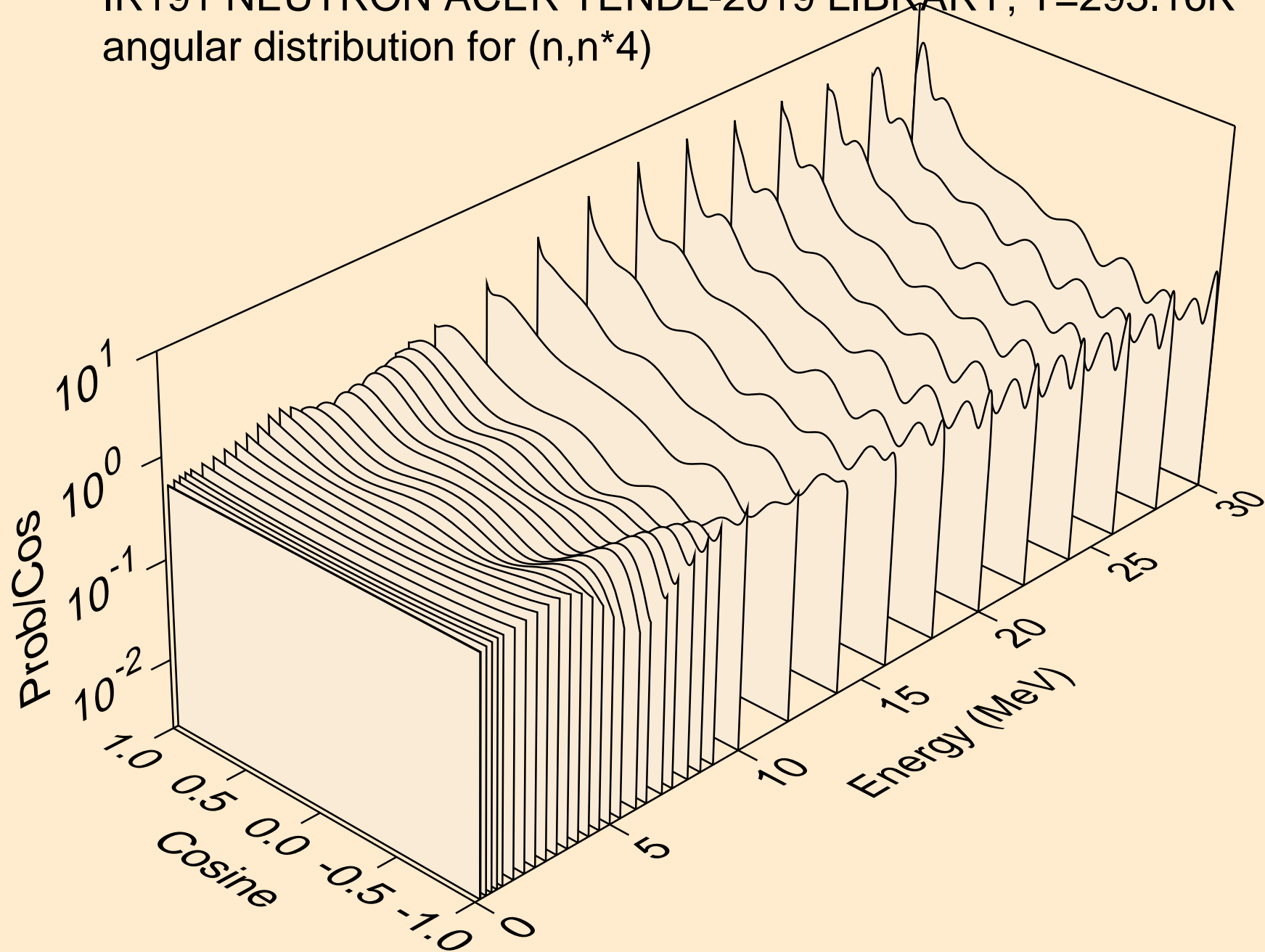
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angular distribution for (n,n\*2)



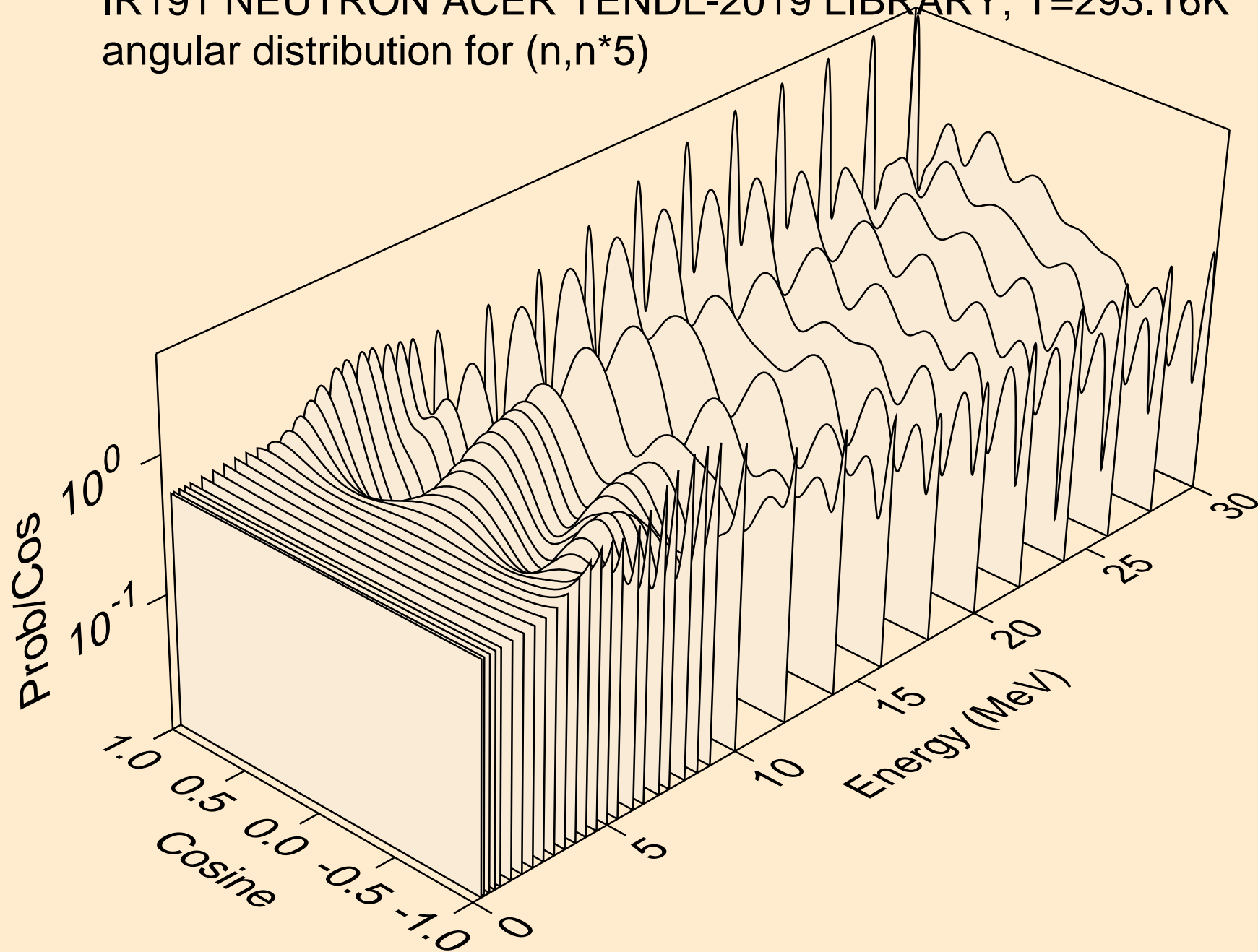
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angular distribution for (n,n\*3)



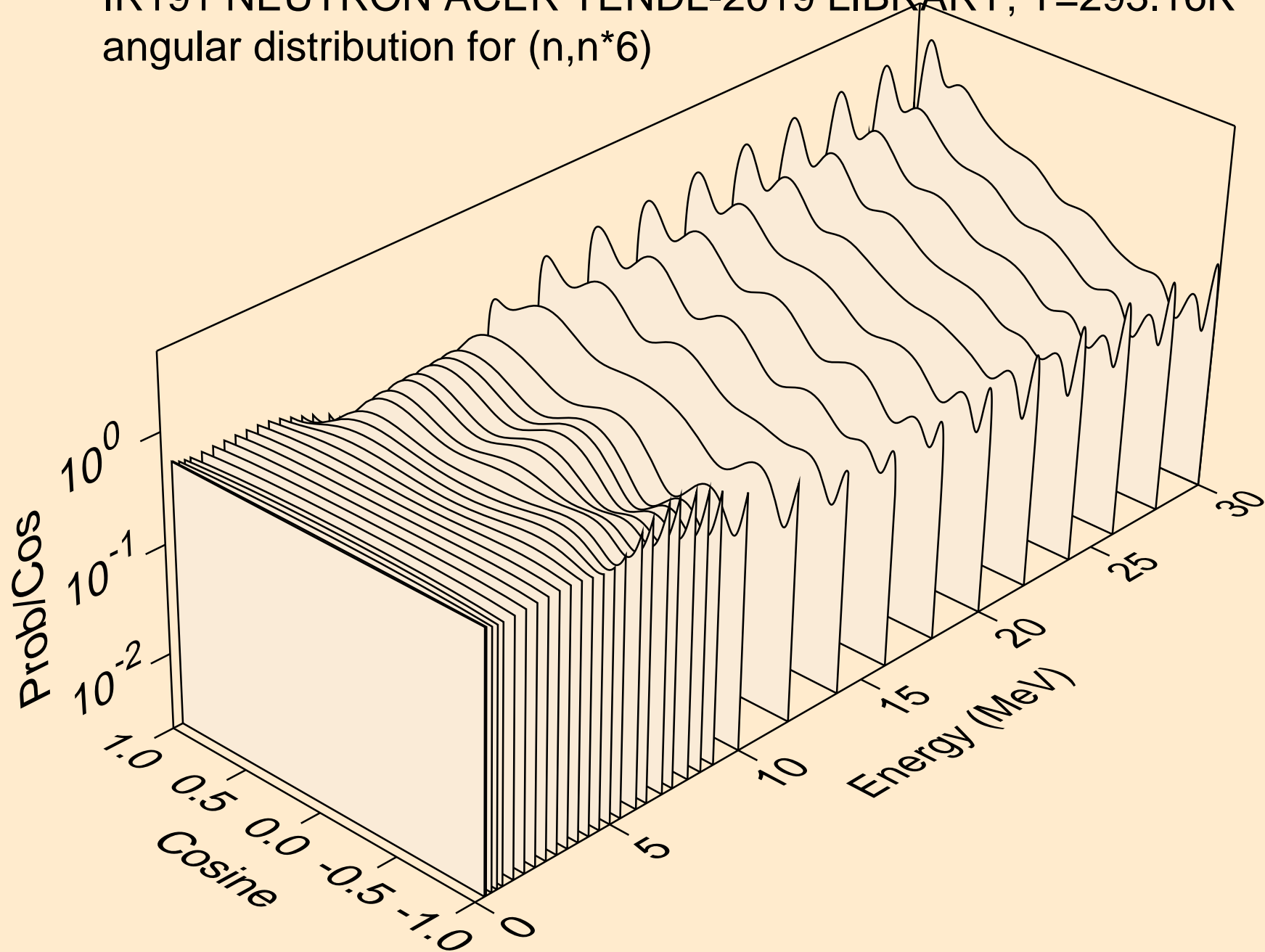
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angular distribution for (n,n\*4)



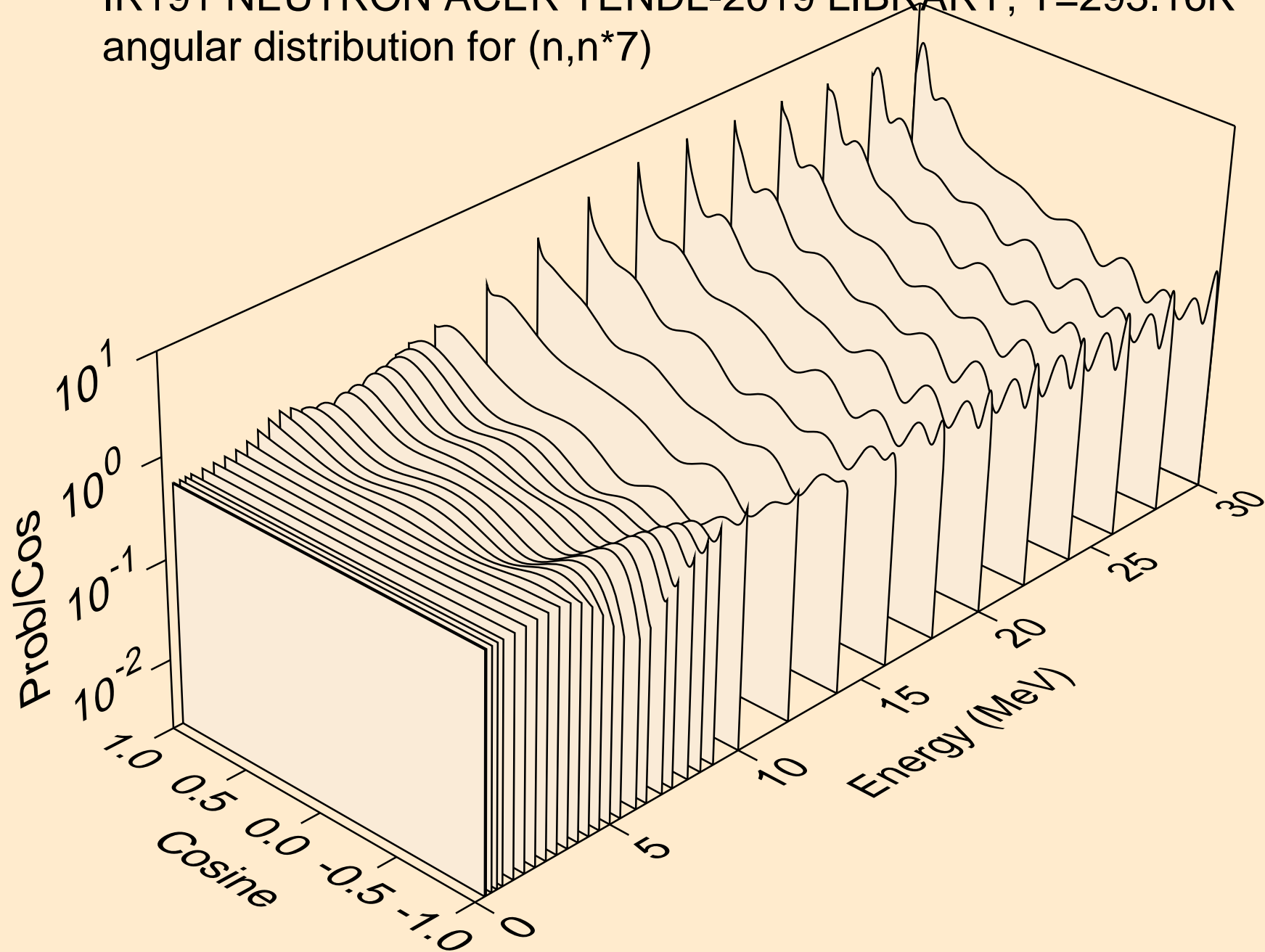
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angular distribution for (n,n\*5)



IR191 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*6)

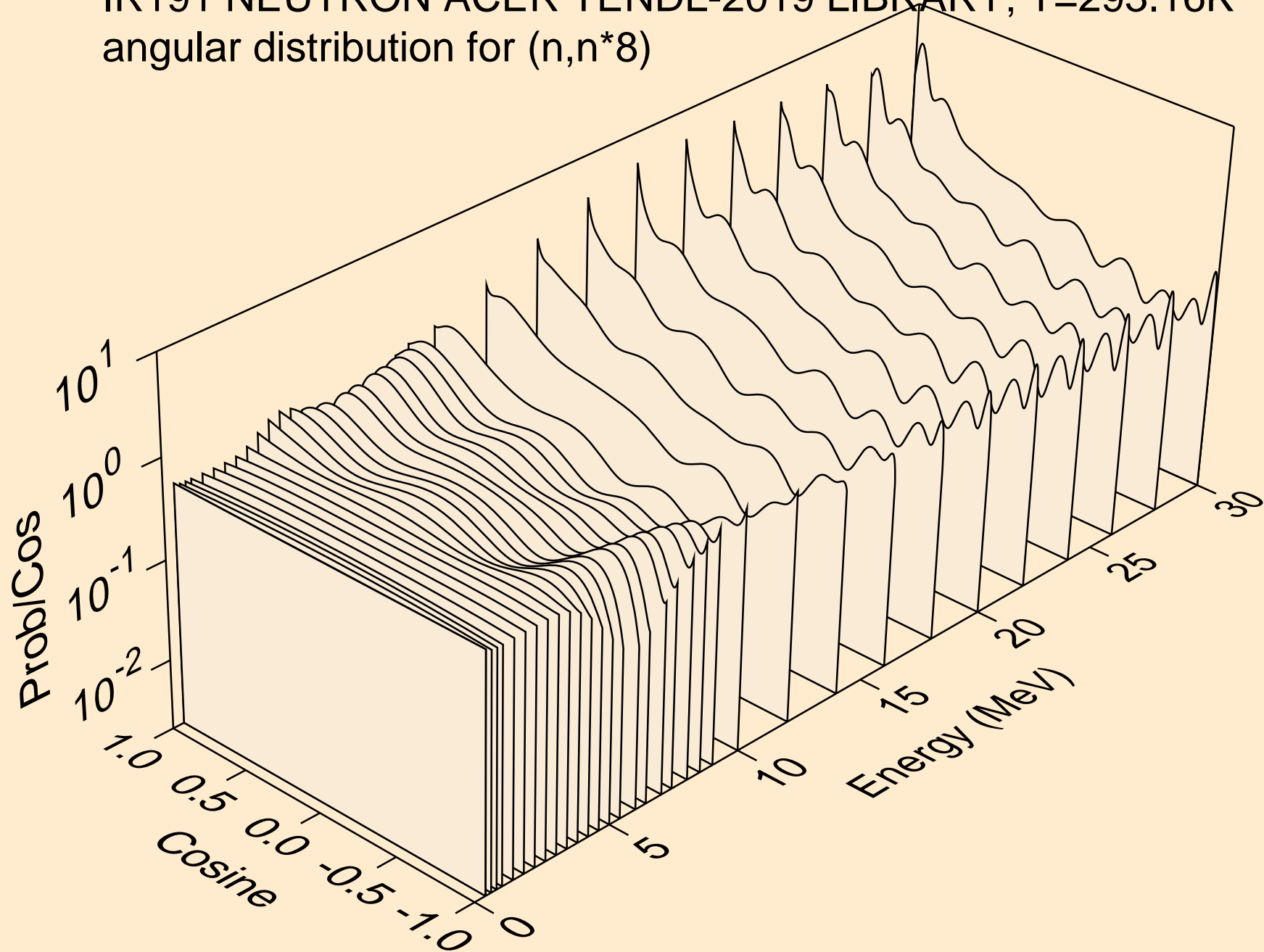


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angular distribution for (n,n\*7)

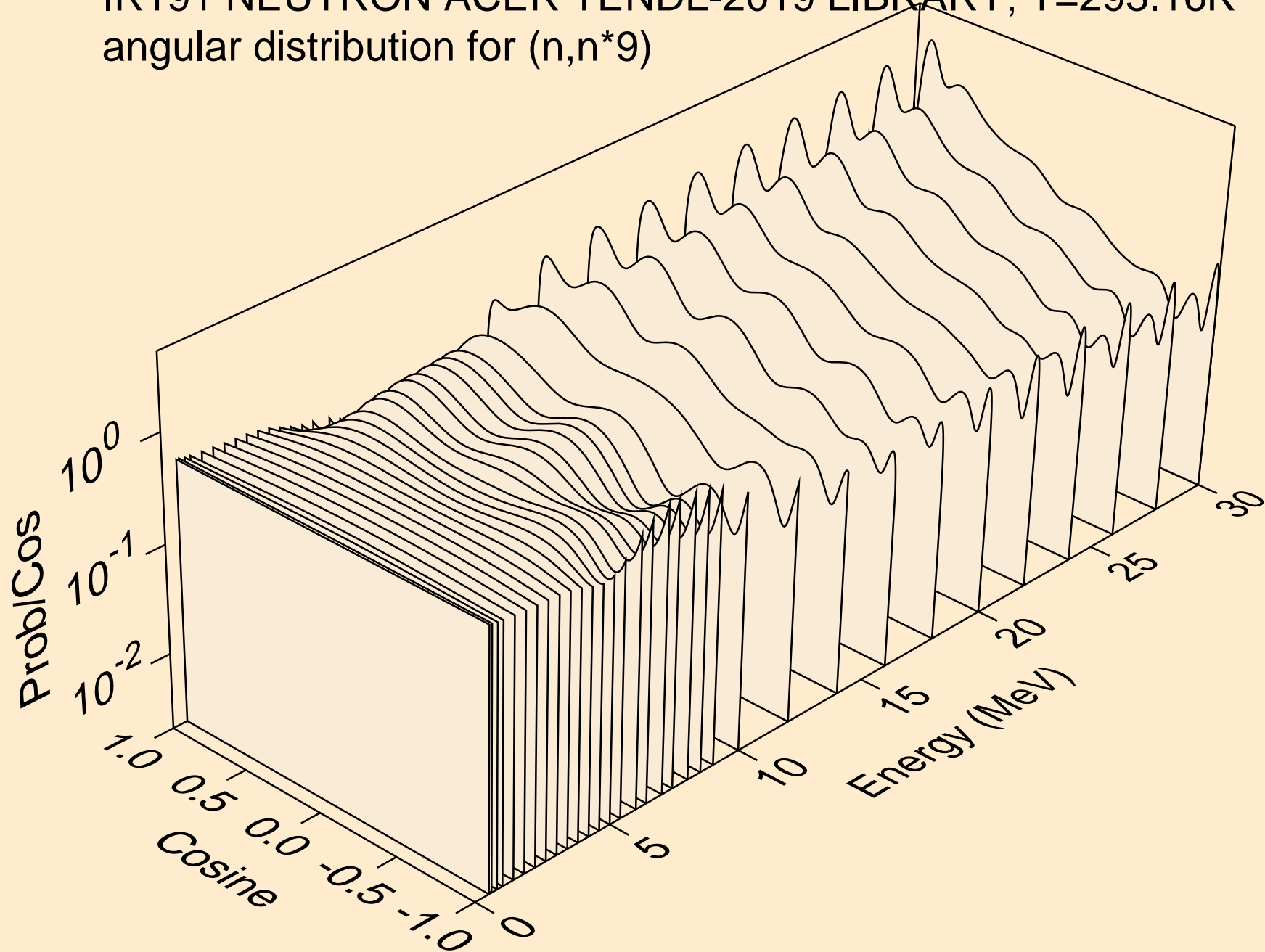




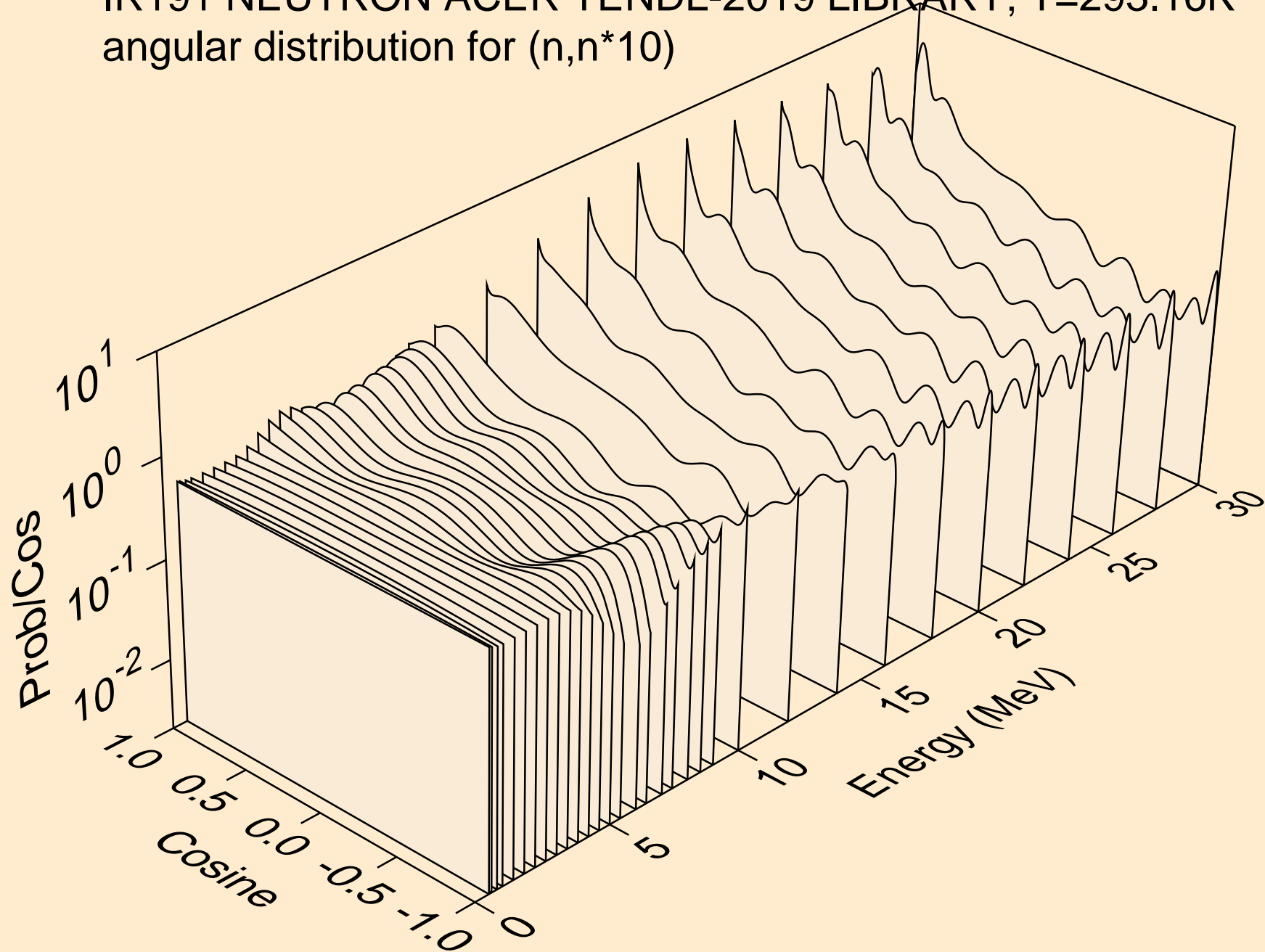
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angular distribution for (n,n\*8)



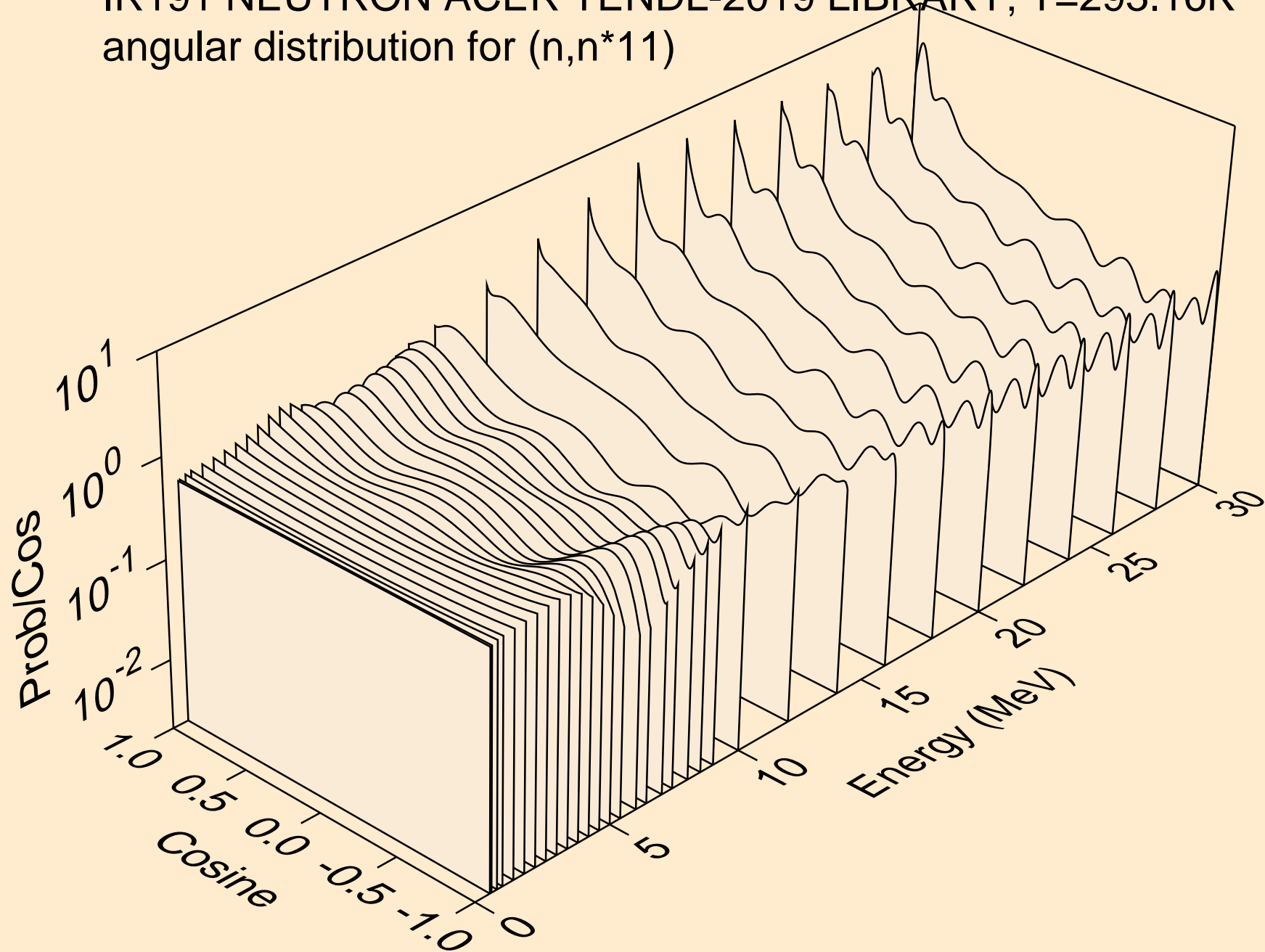
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angular distribution for (n,n\*9)



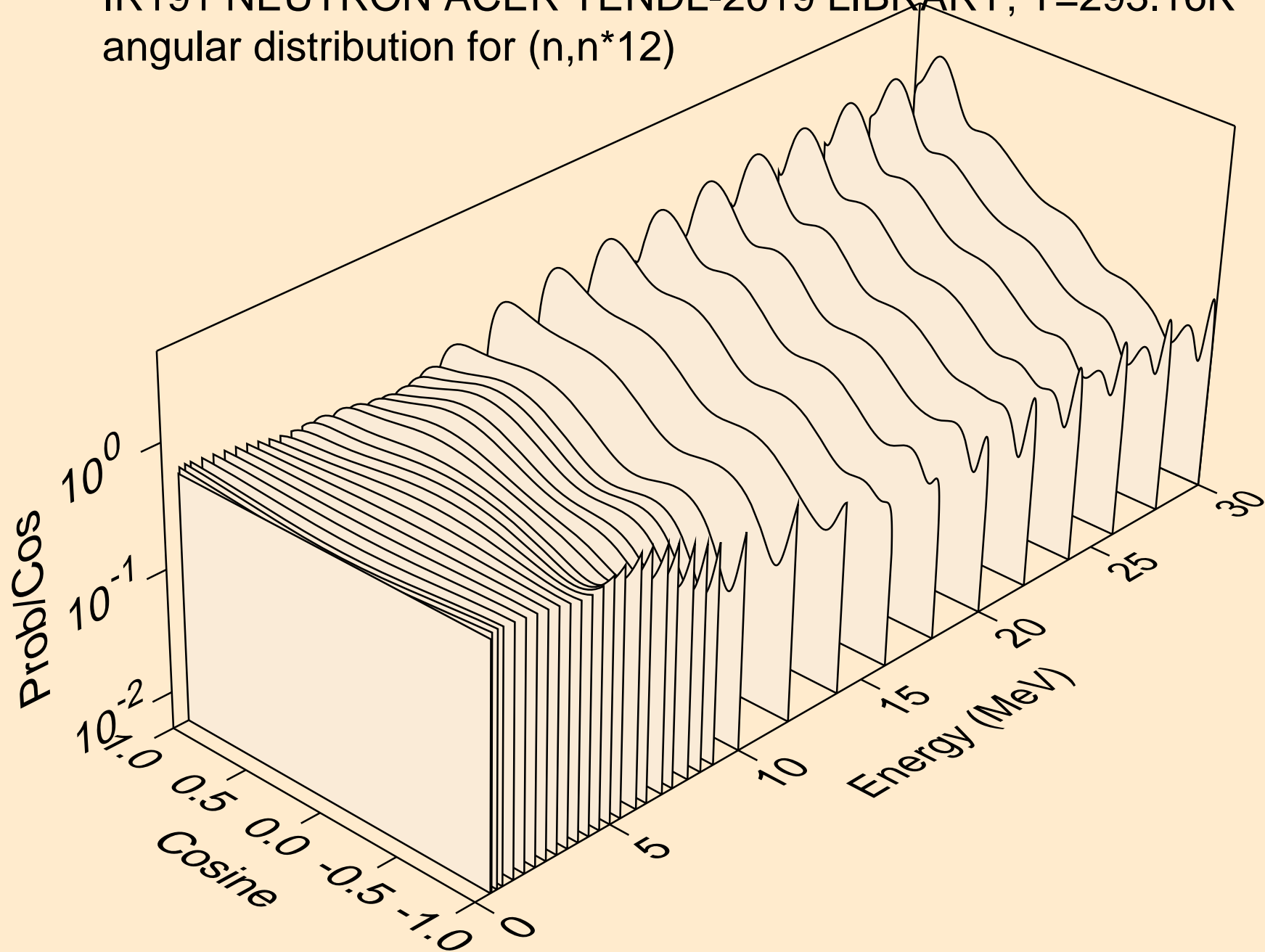
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angular distribution for (n,n\*10)



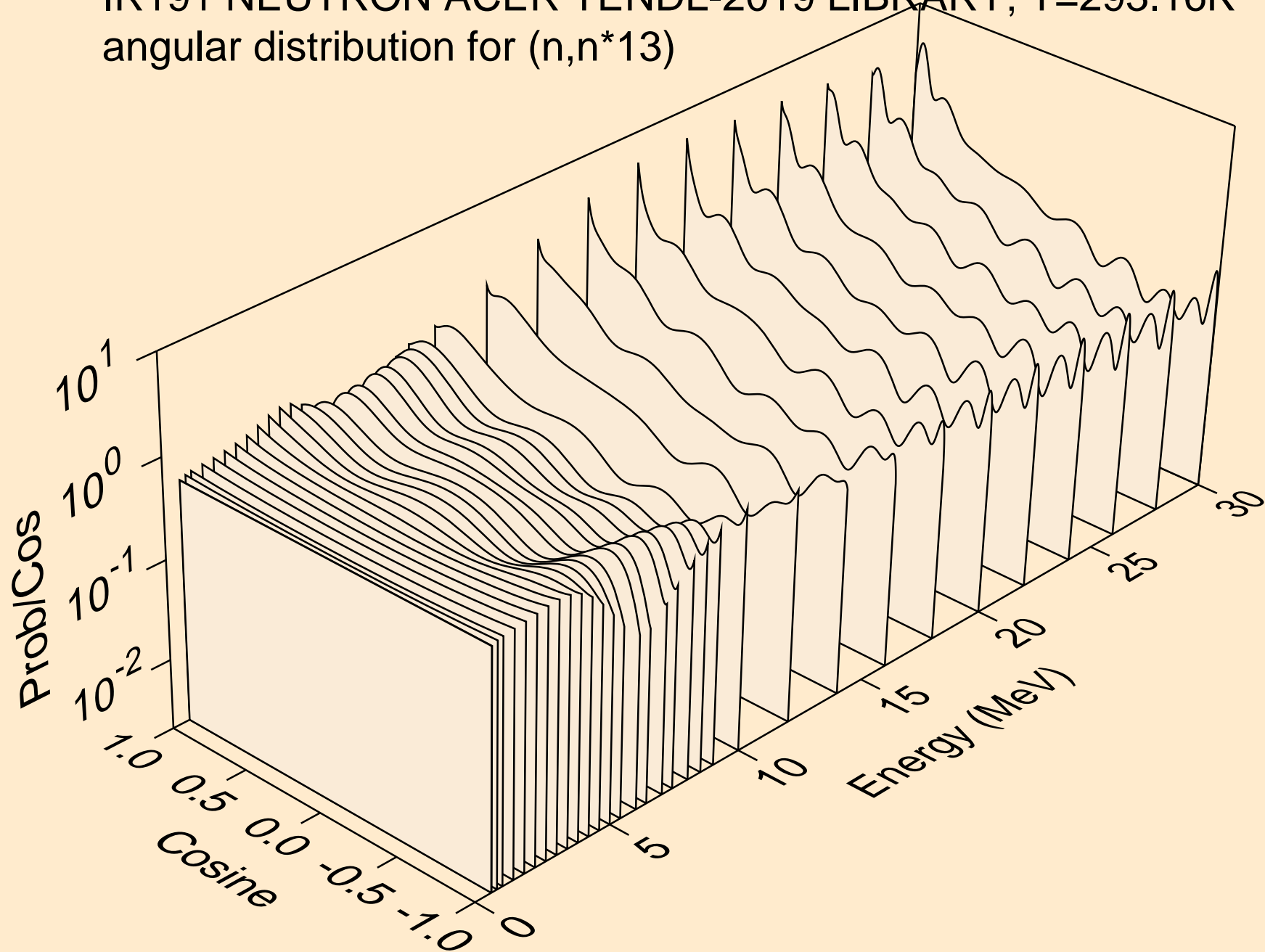
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angular distribution for (n,n\*11)



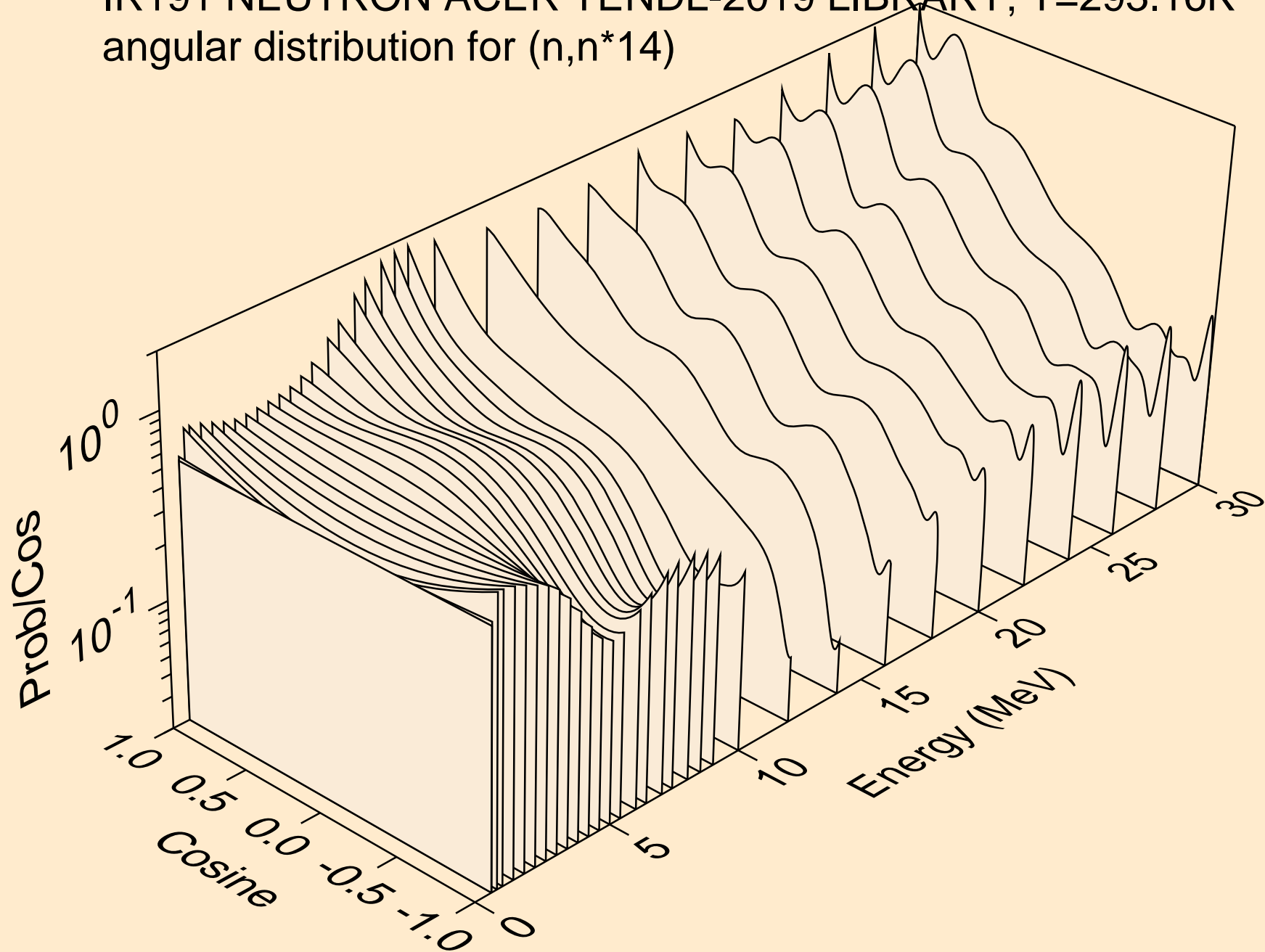
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angular distribution for (n,n\*12)



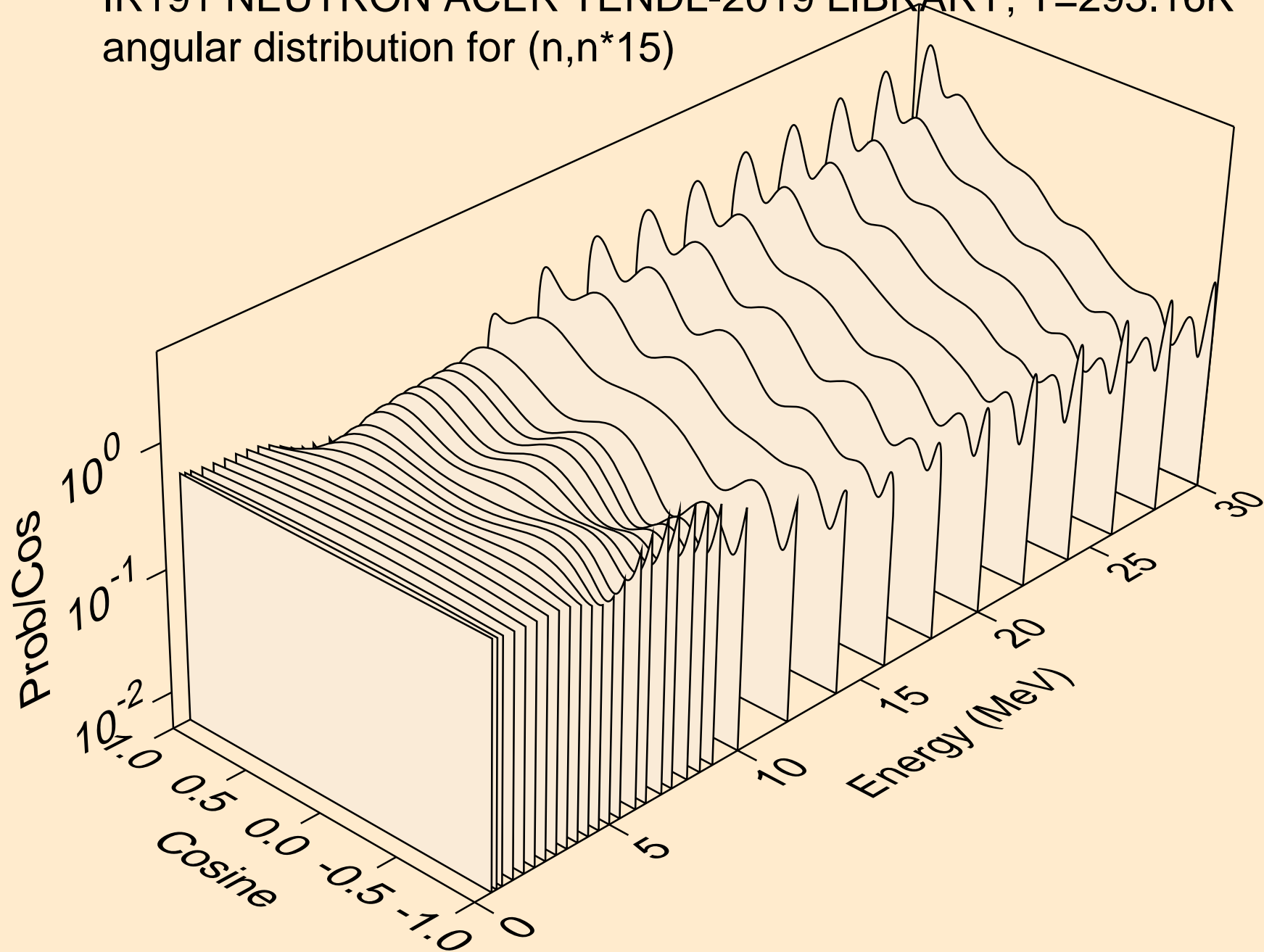
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angular distribution for (n,n\*13)



IR191 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*14)

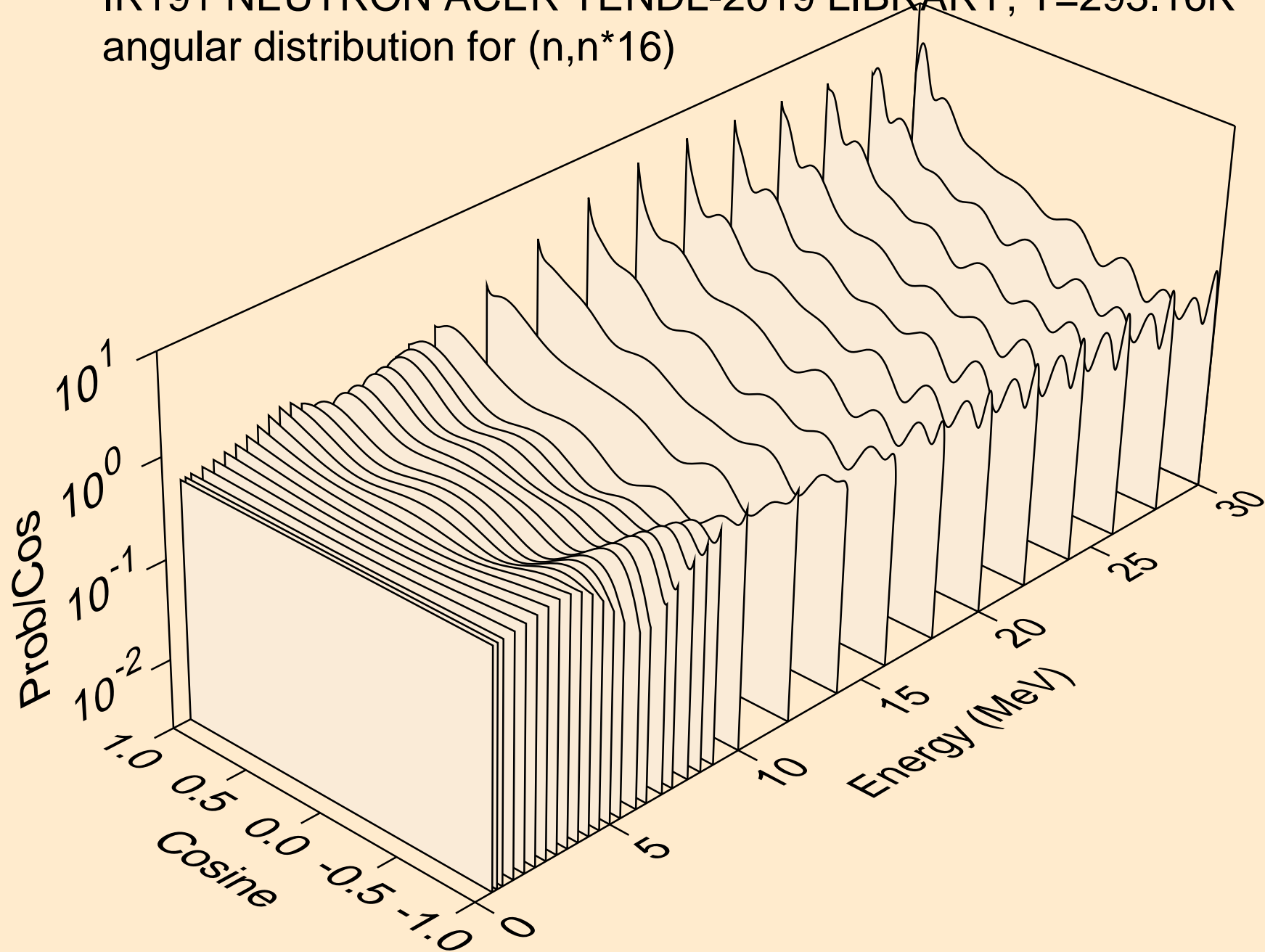


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angular distribution for (n,n\*15)

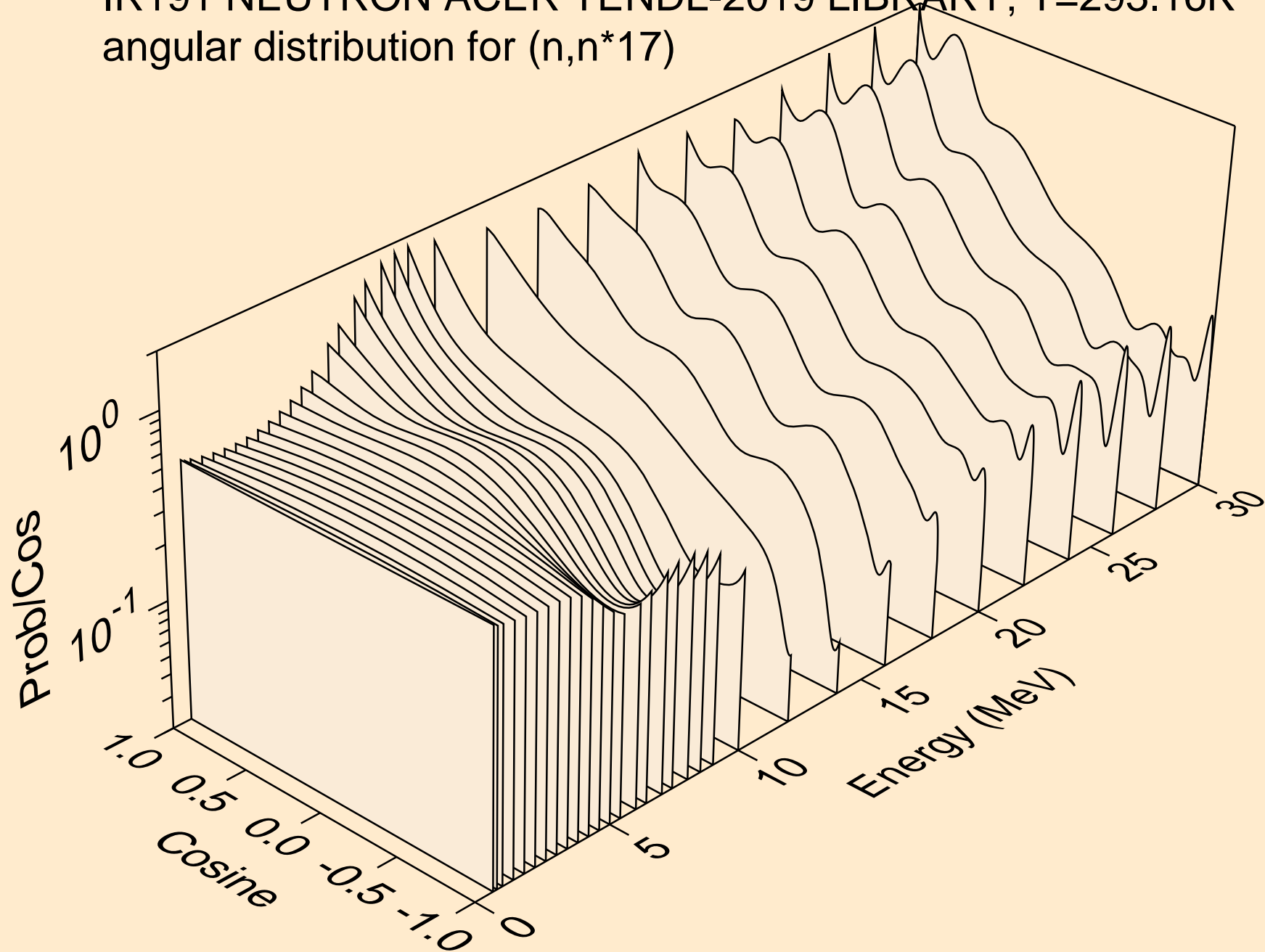




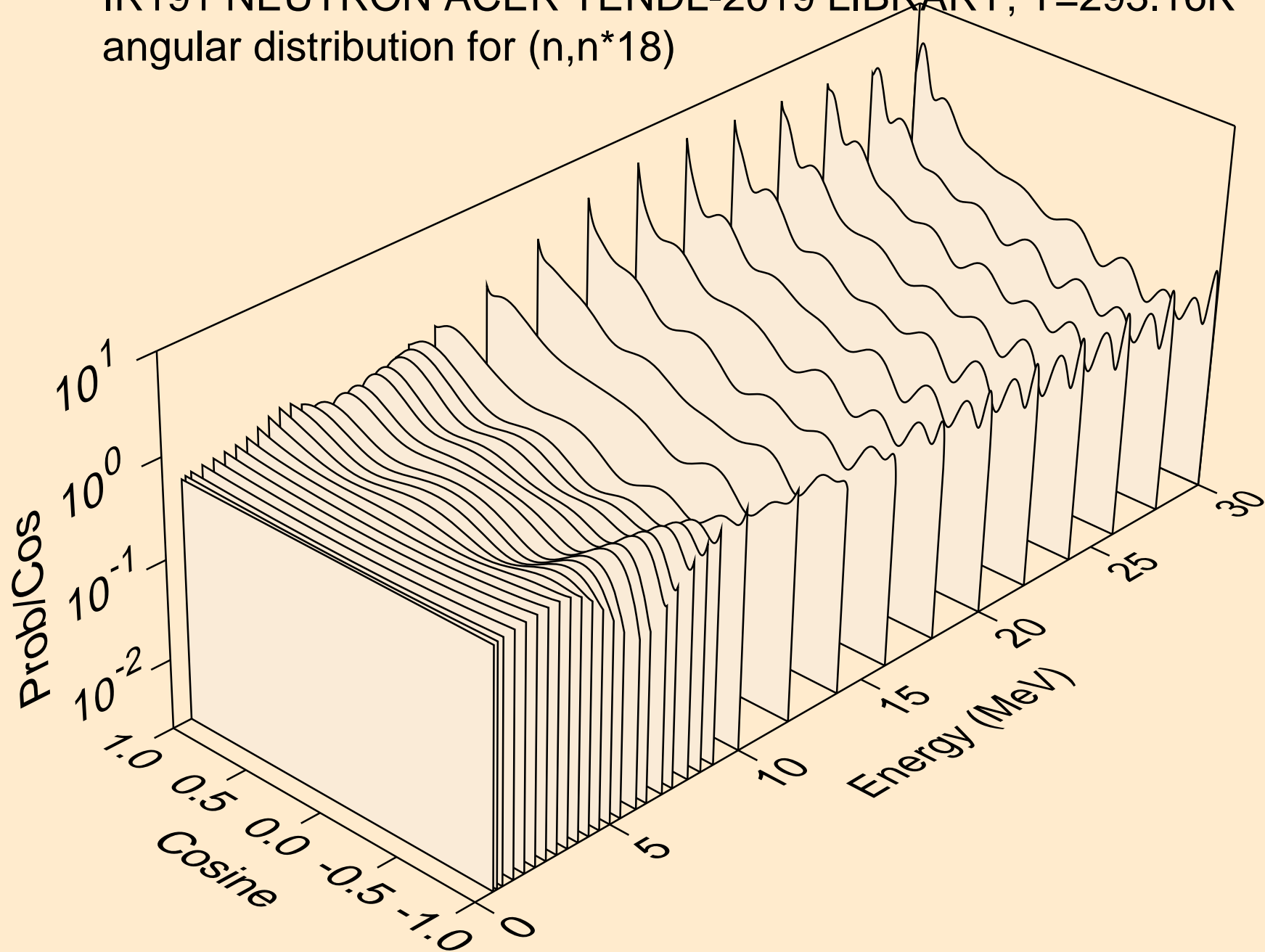
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angular distribution for (n,n\*16)



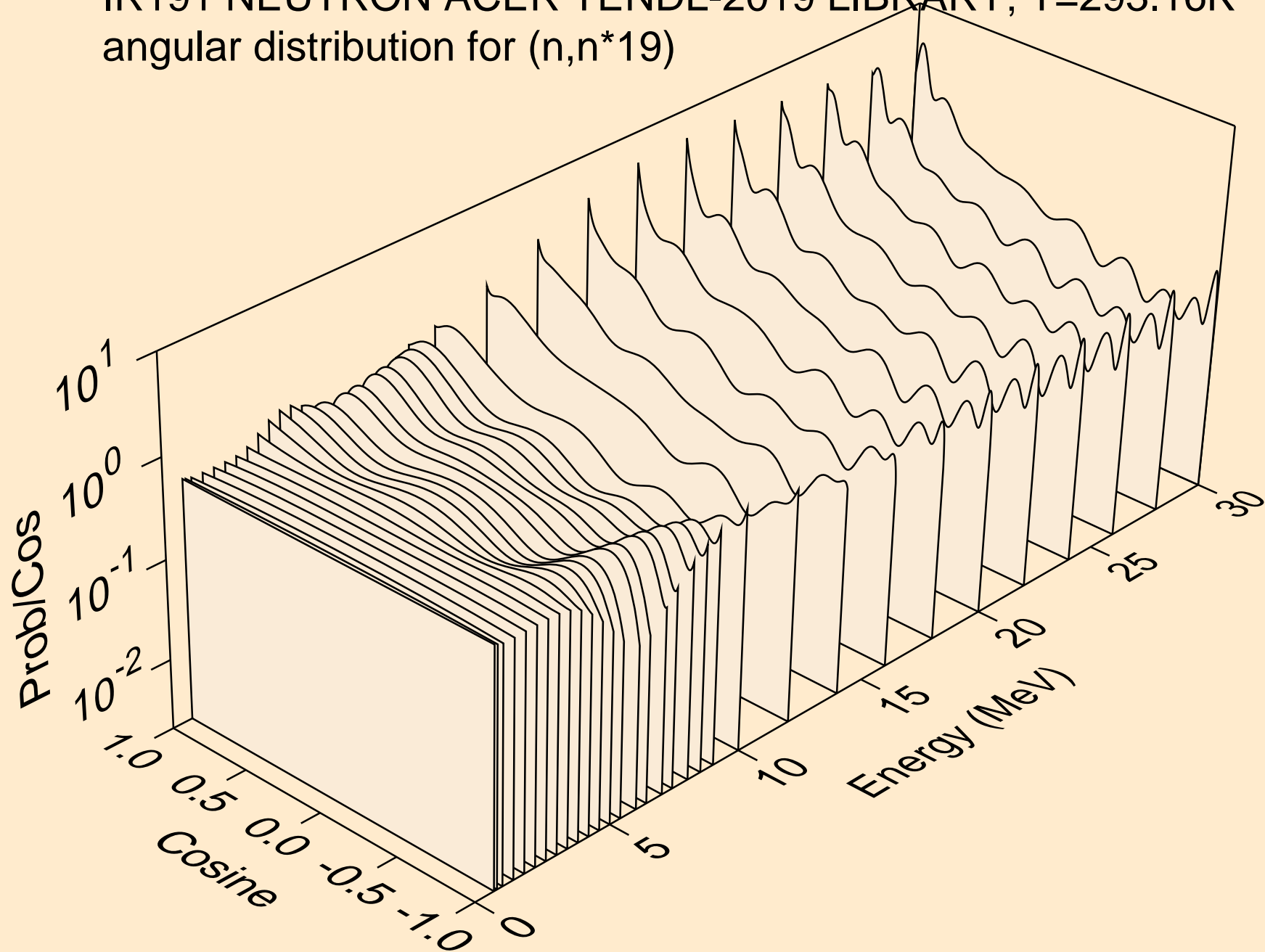
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angular distribution for (n,n\*17)



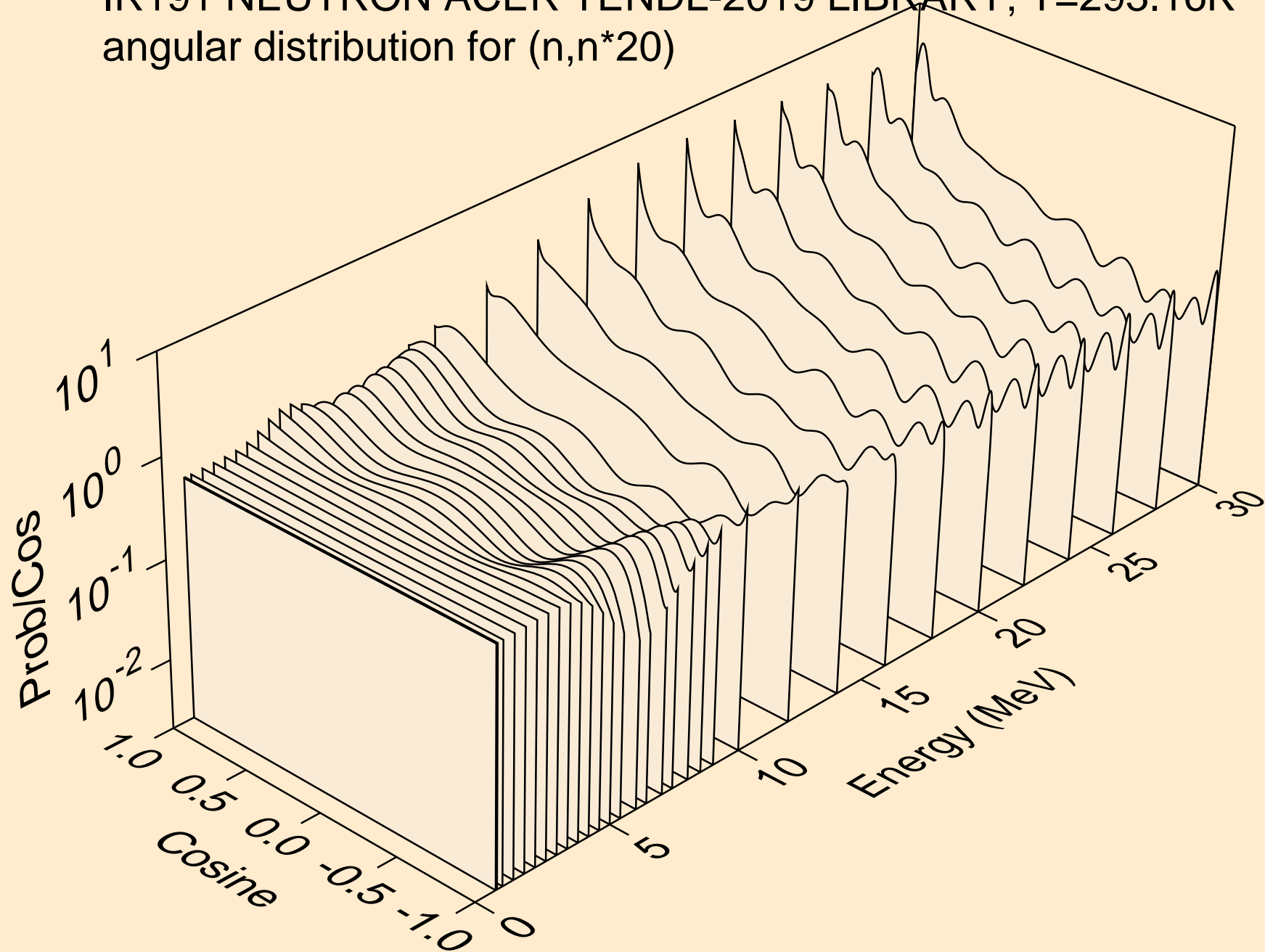
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angular distribution for (n,n\*18)



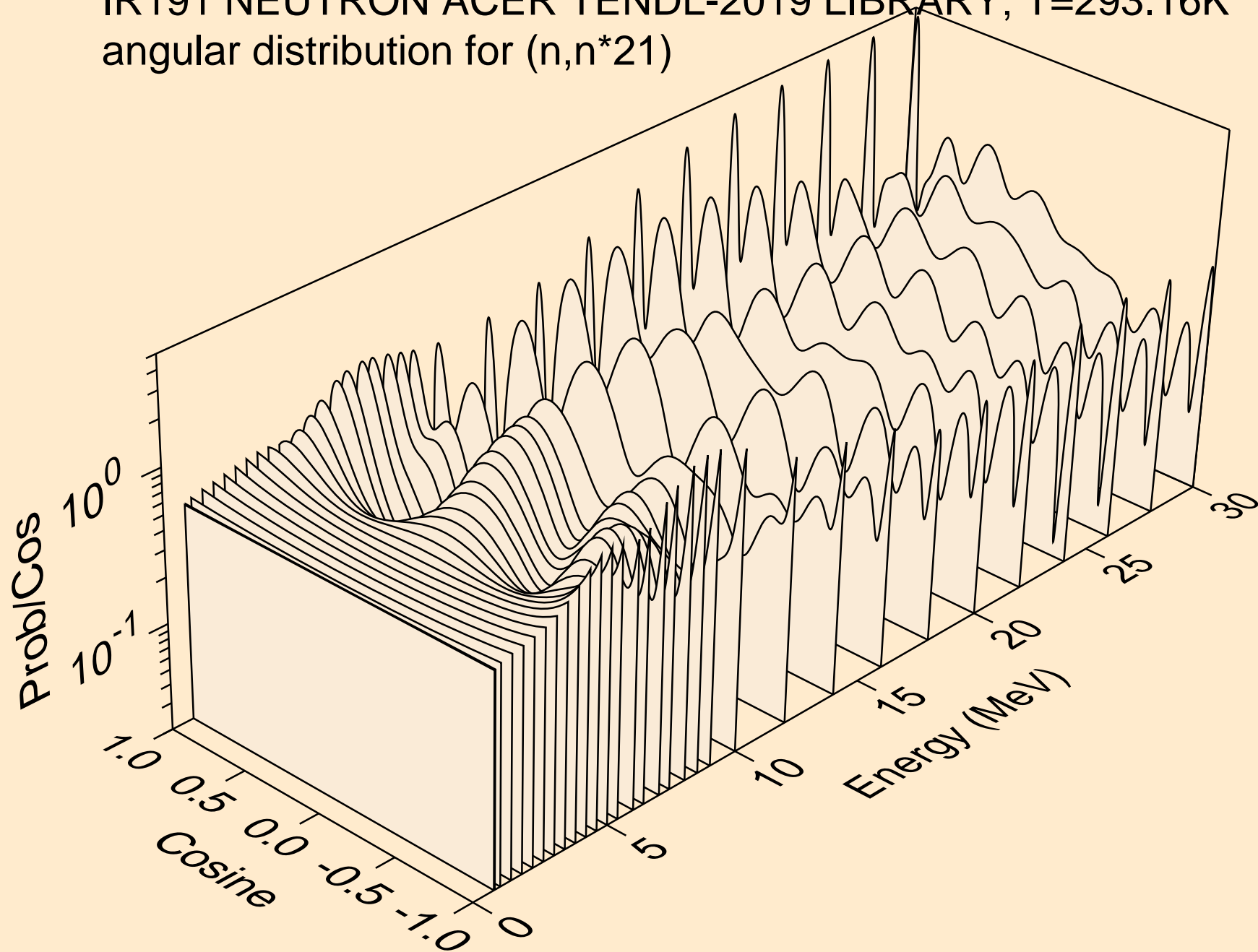
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angular distribution for (n,n\*19)



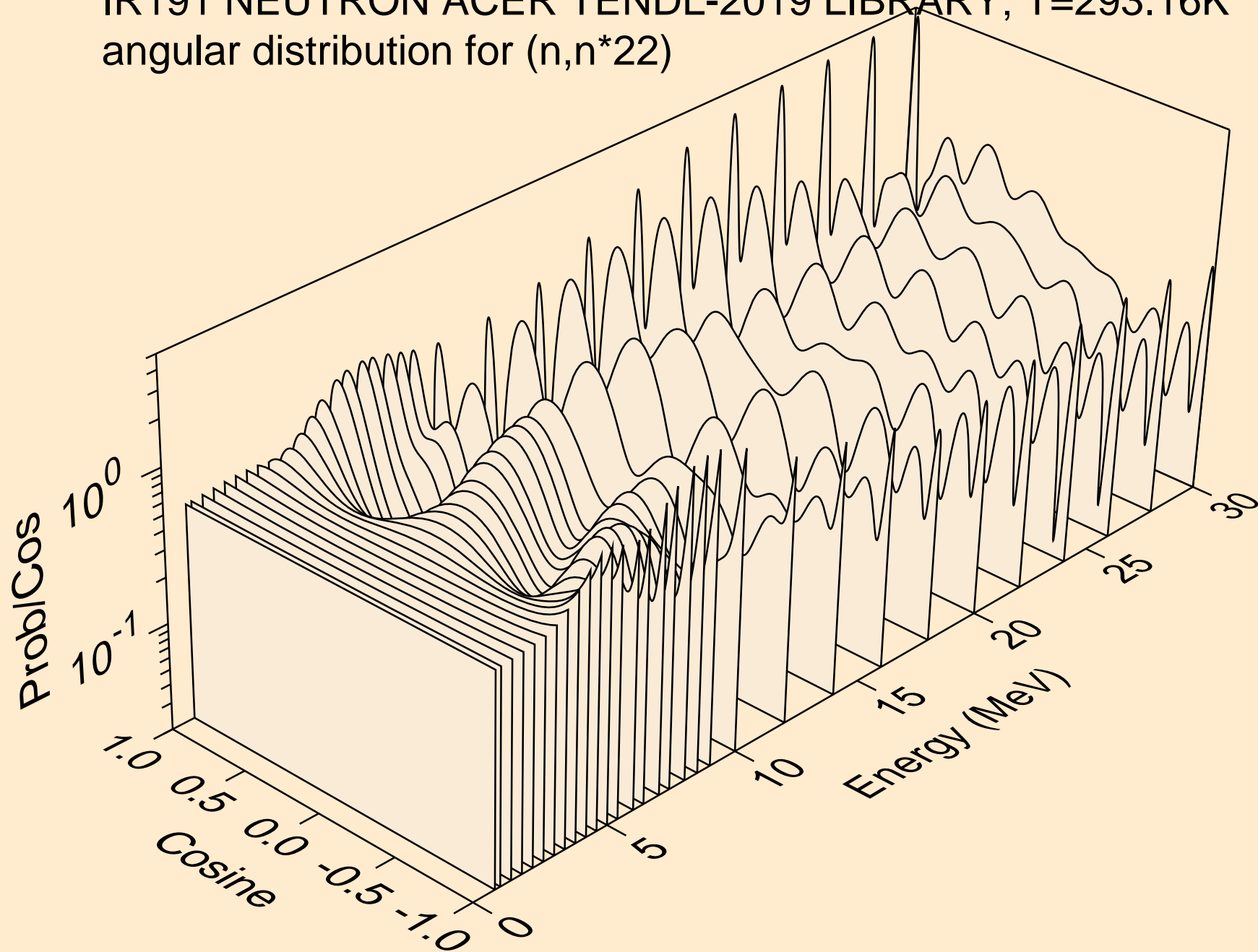
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angular distribution for (n,n\*20)



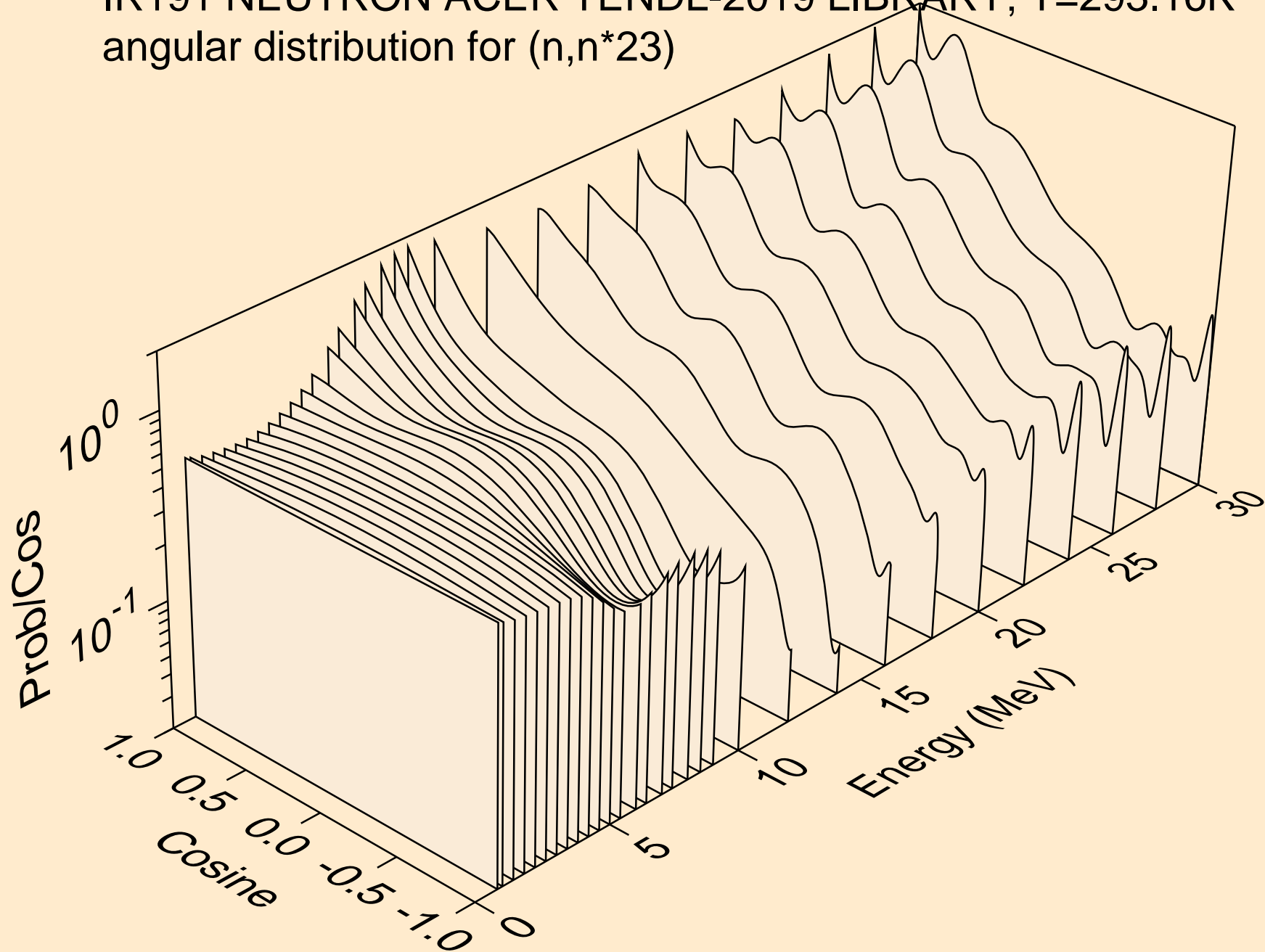
IR191 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*21)



IR191 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*22)

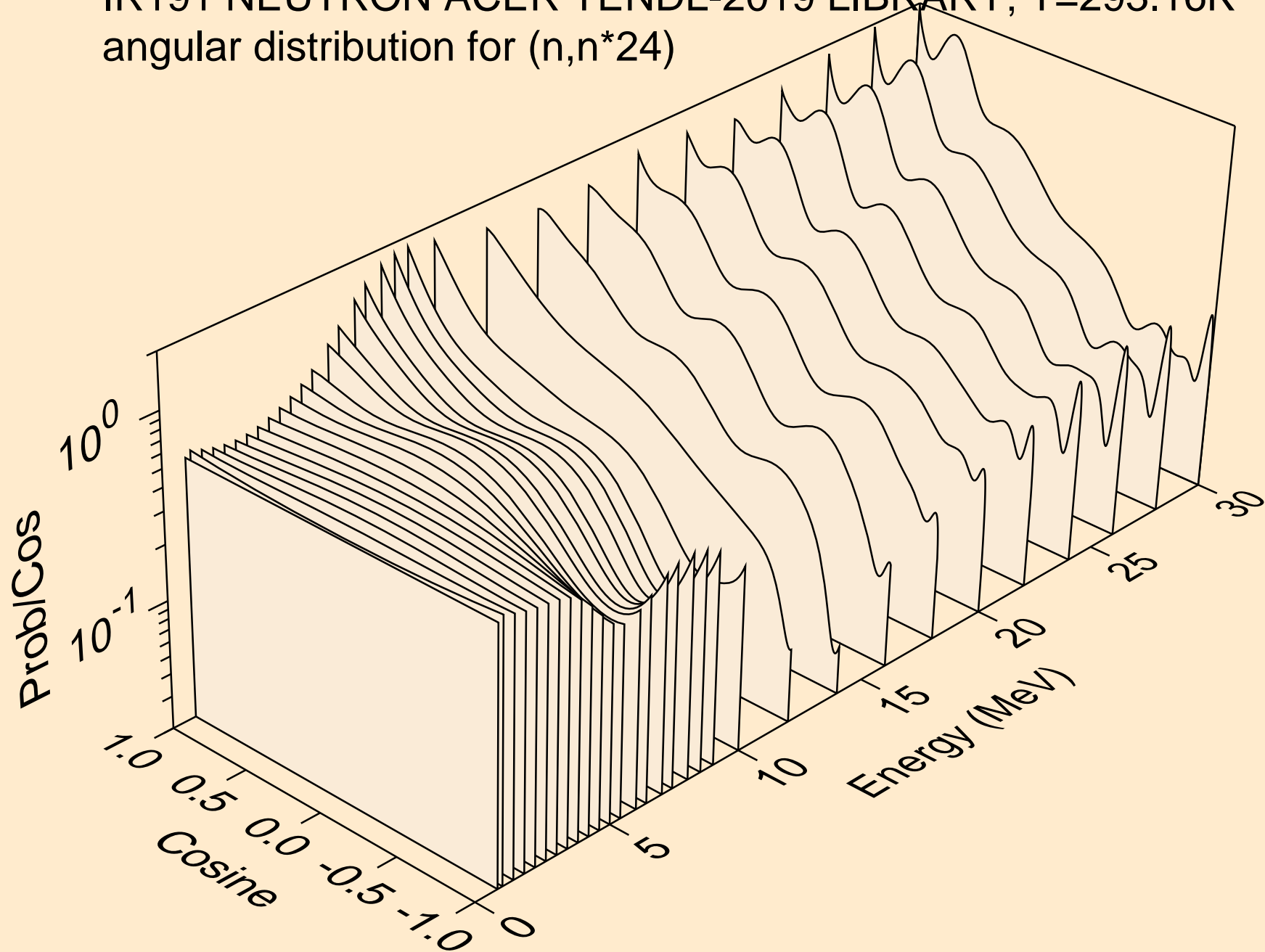


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angular distribution for (n,n\*23)

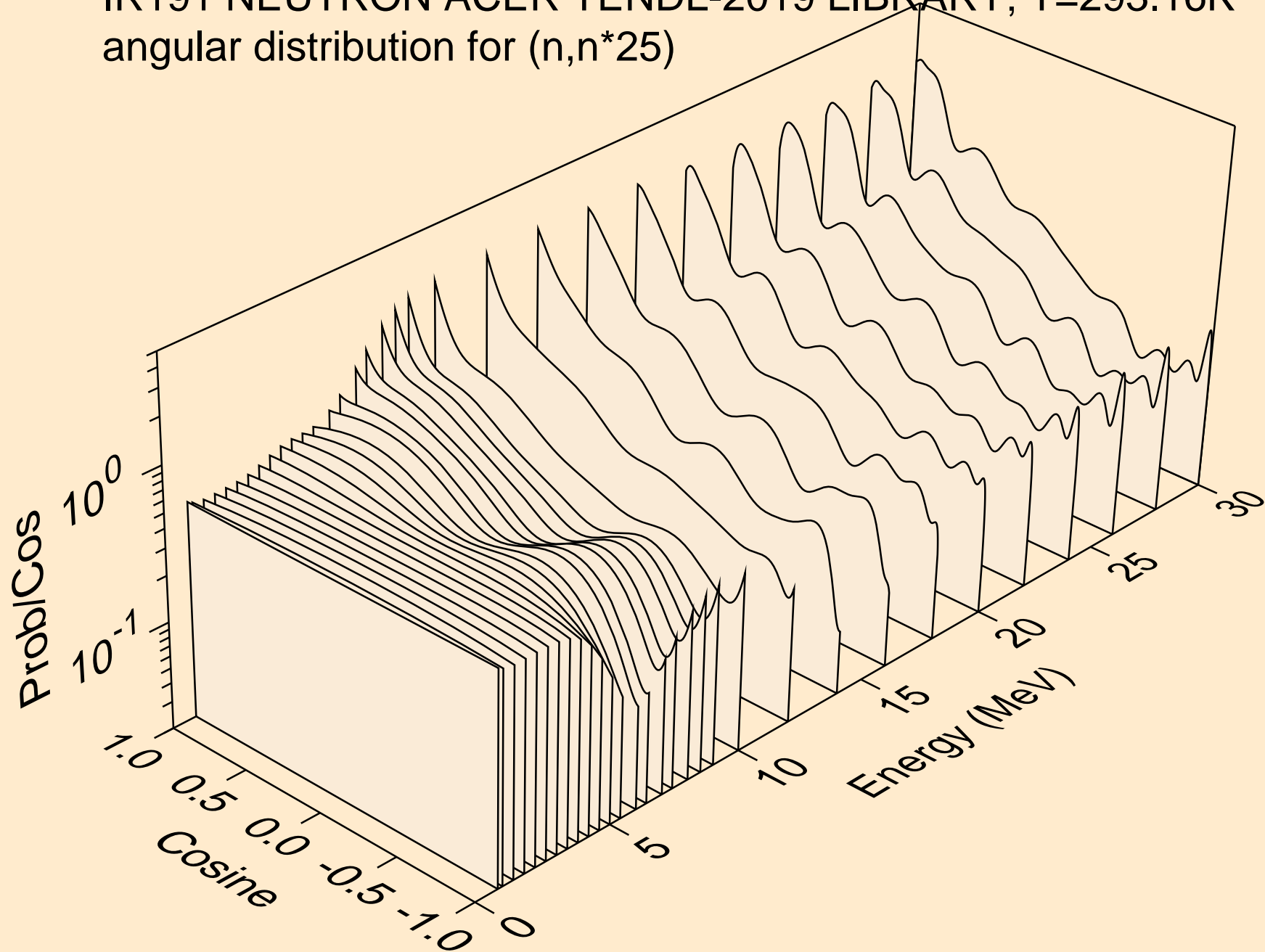




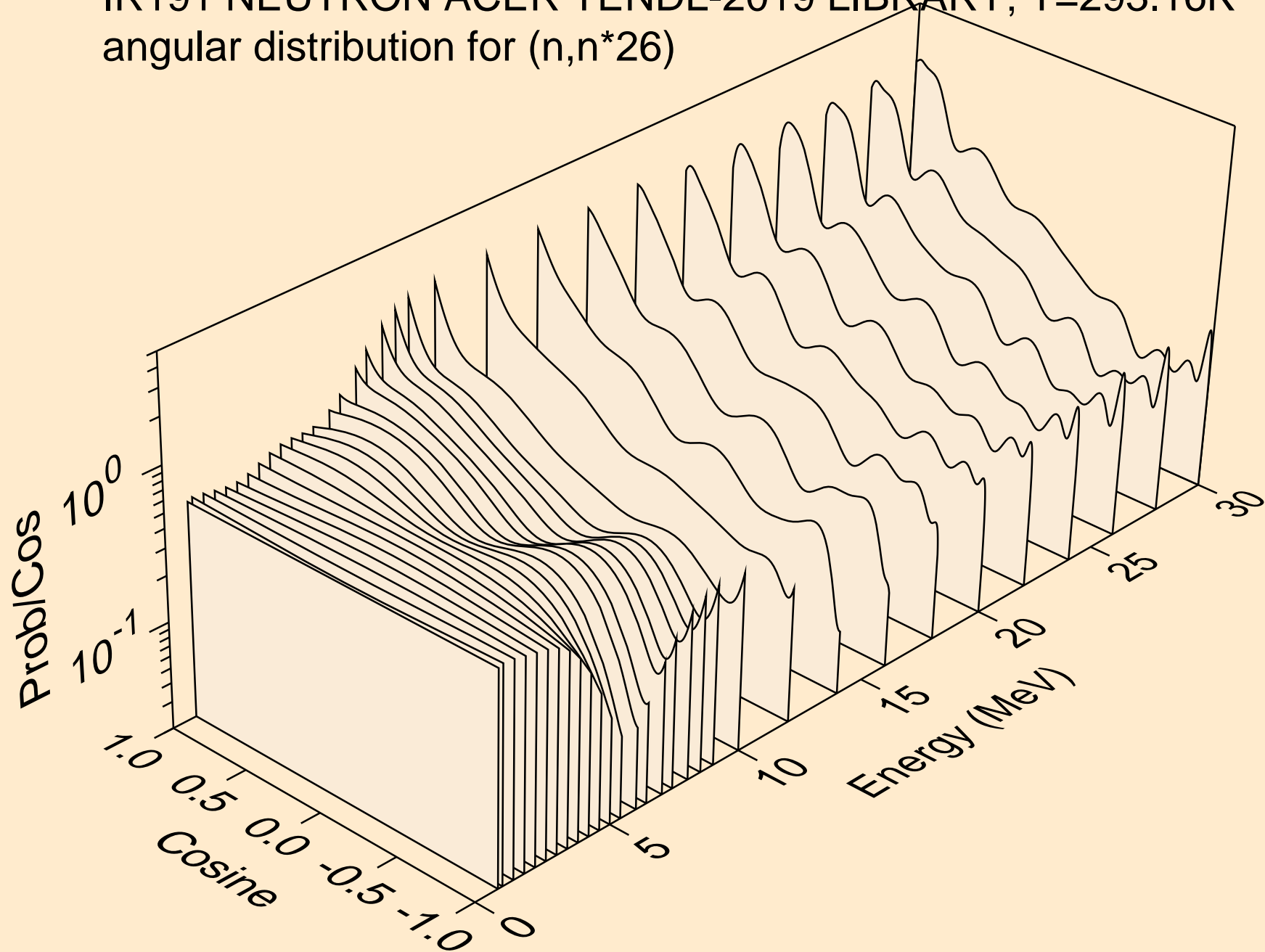
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angular distribution for (n,n\*24)



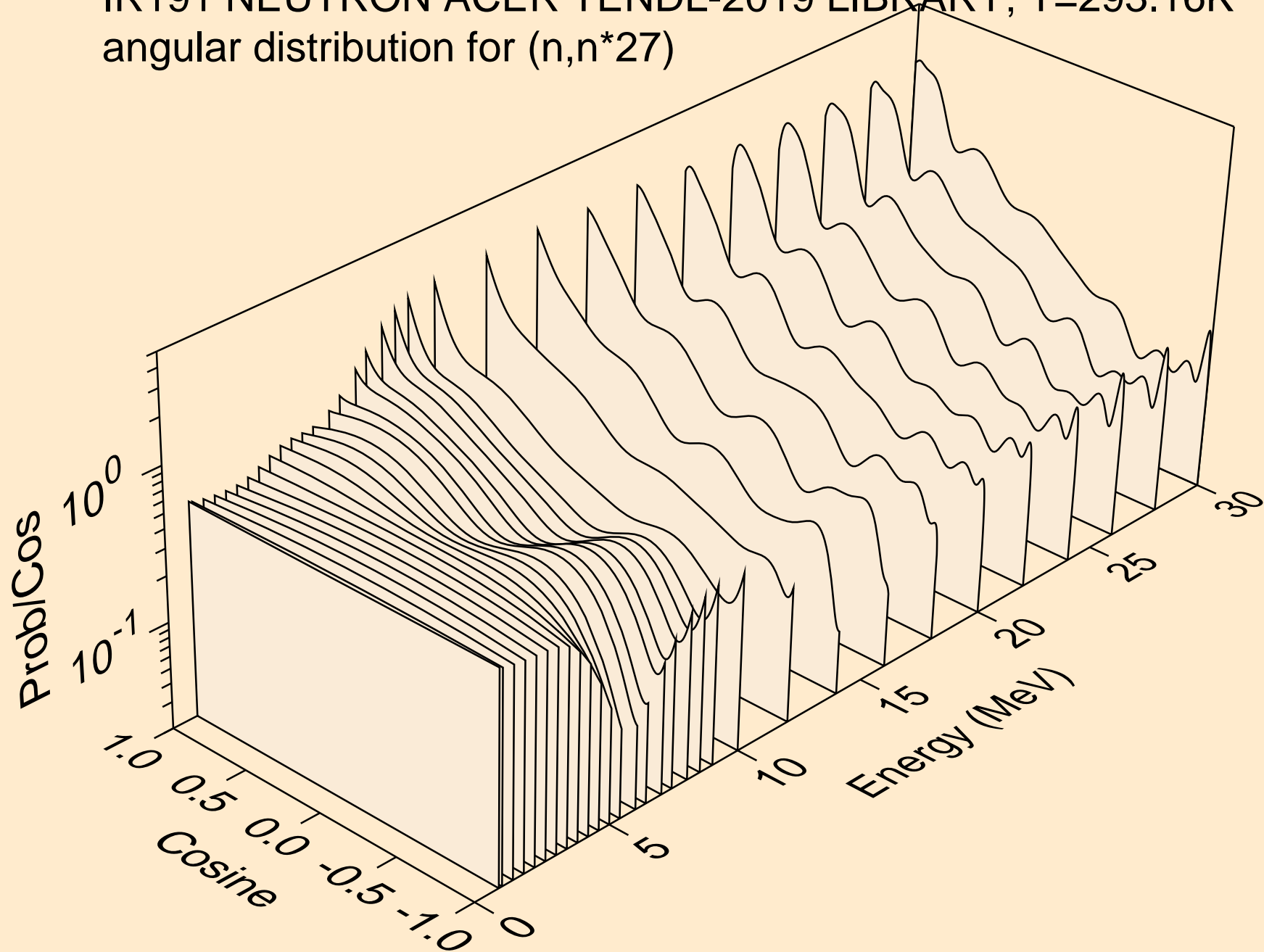
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angular distribution for (n,n\*25)



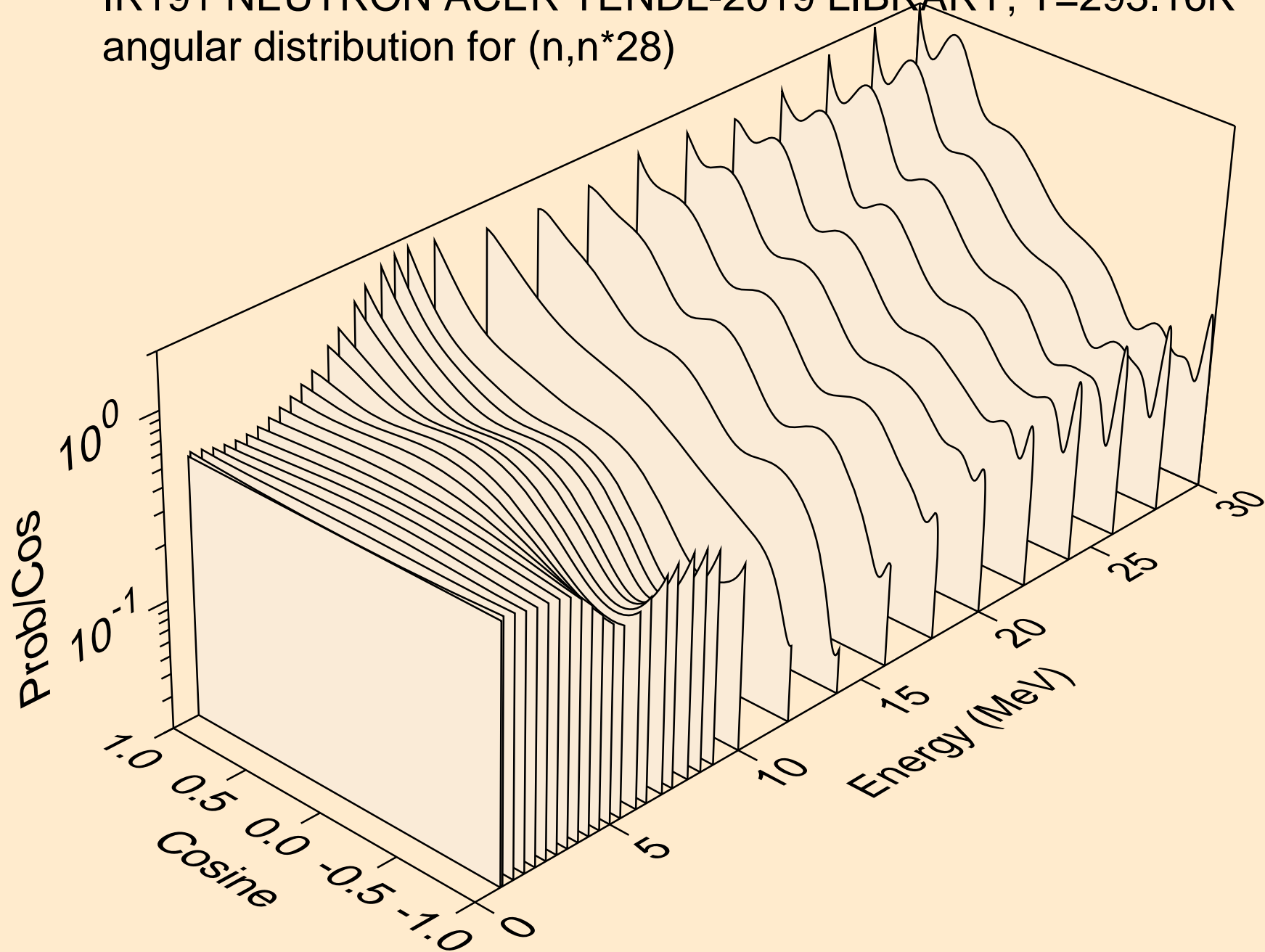
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angular distribution for (n,n\*26)



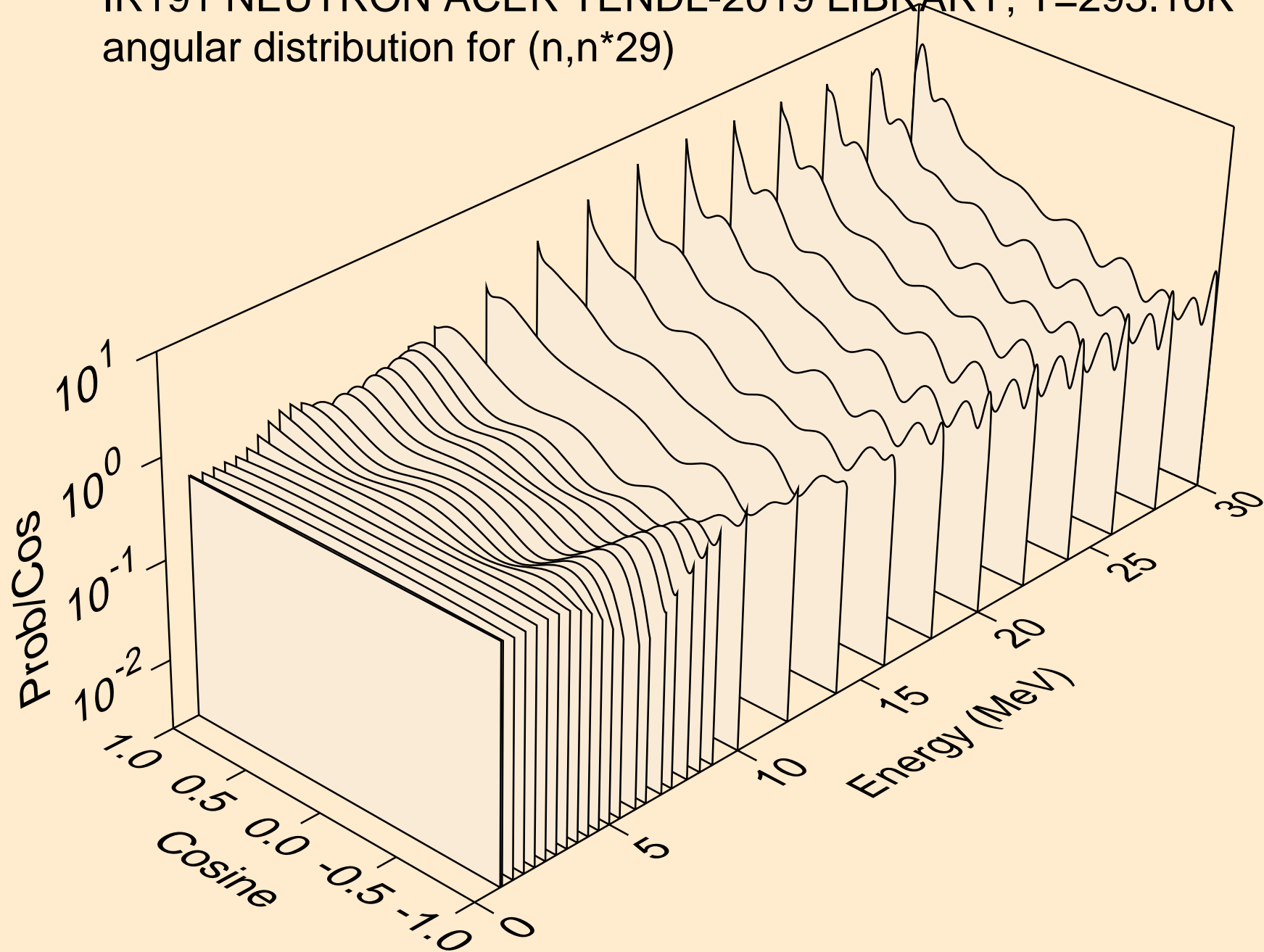
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angular distribution for (n,n\*27)



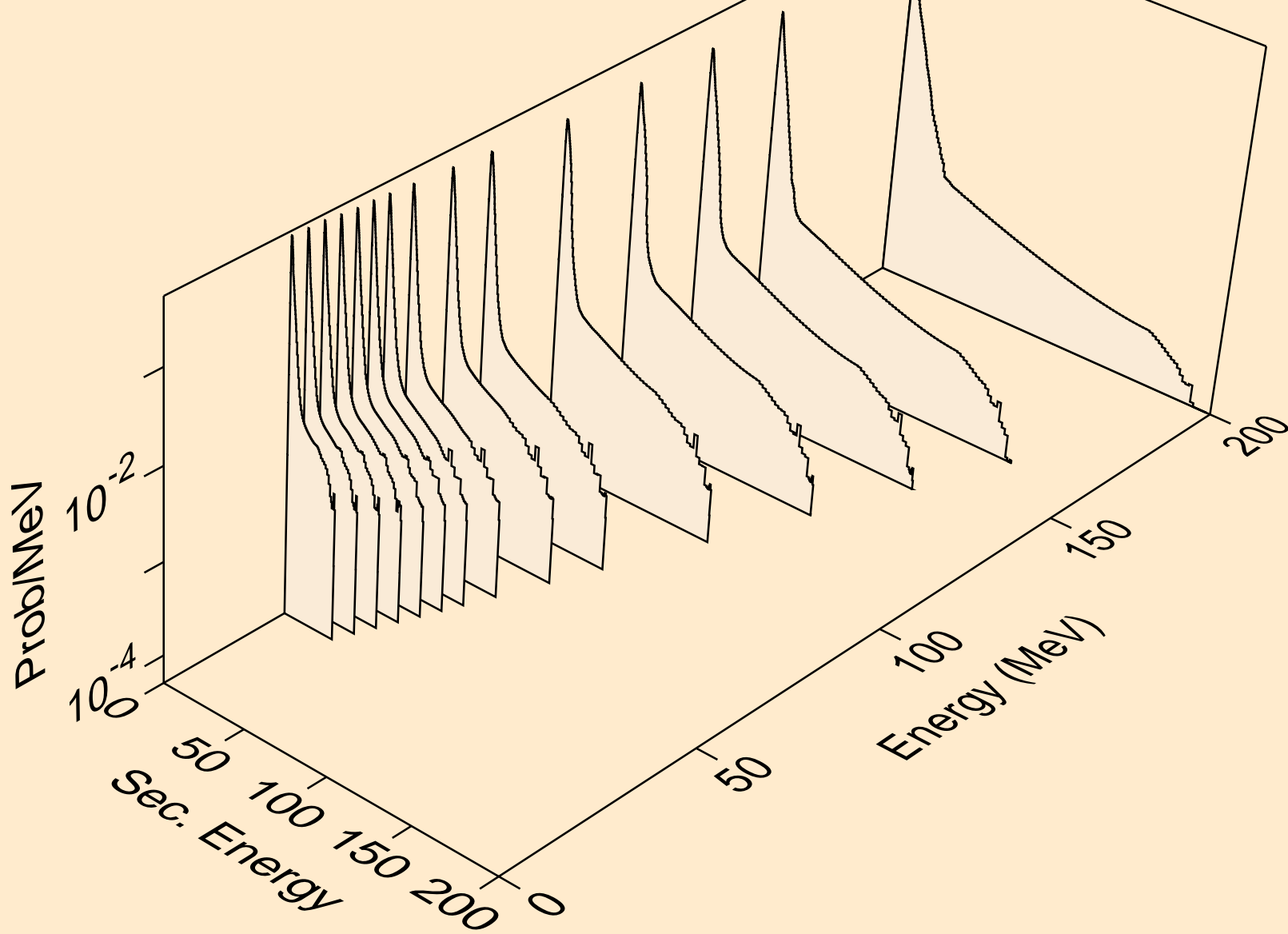
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angular distribution for (n,n\*28)



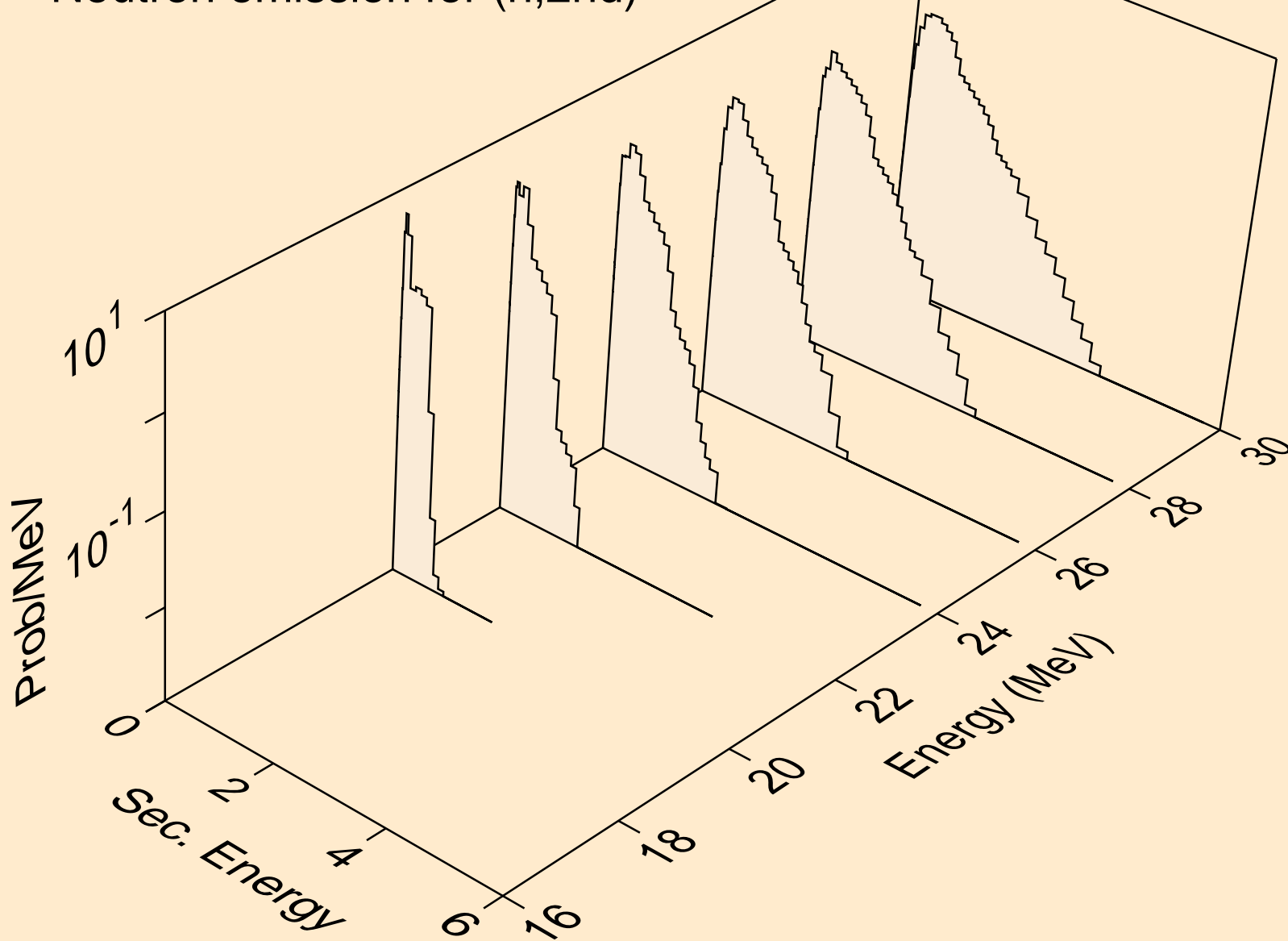
IR191 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*29)



IR191 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,x)

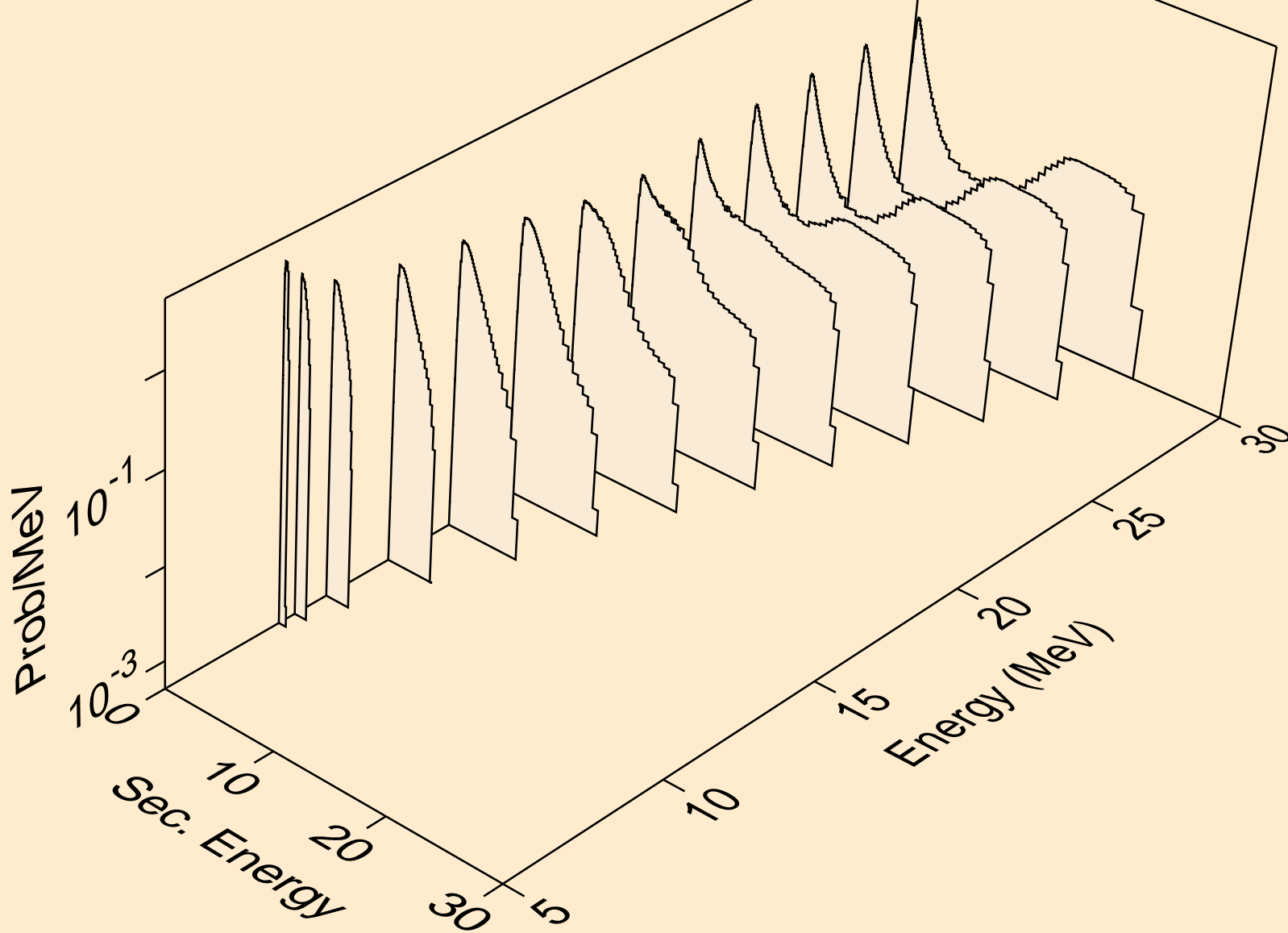


IR191 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,2nd)

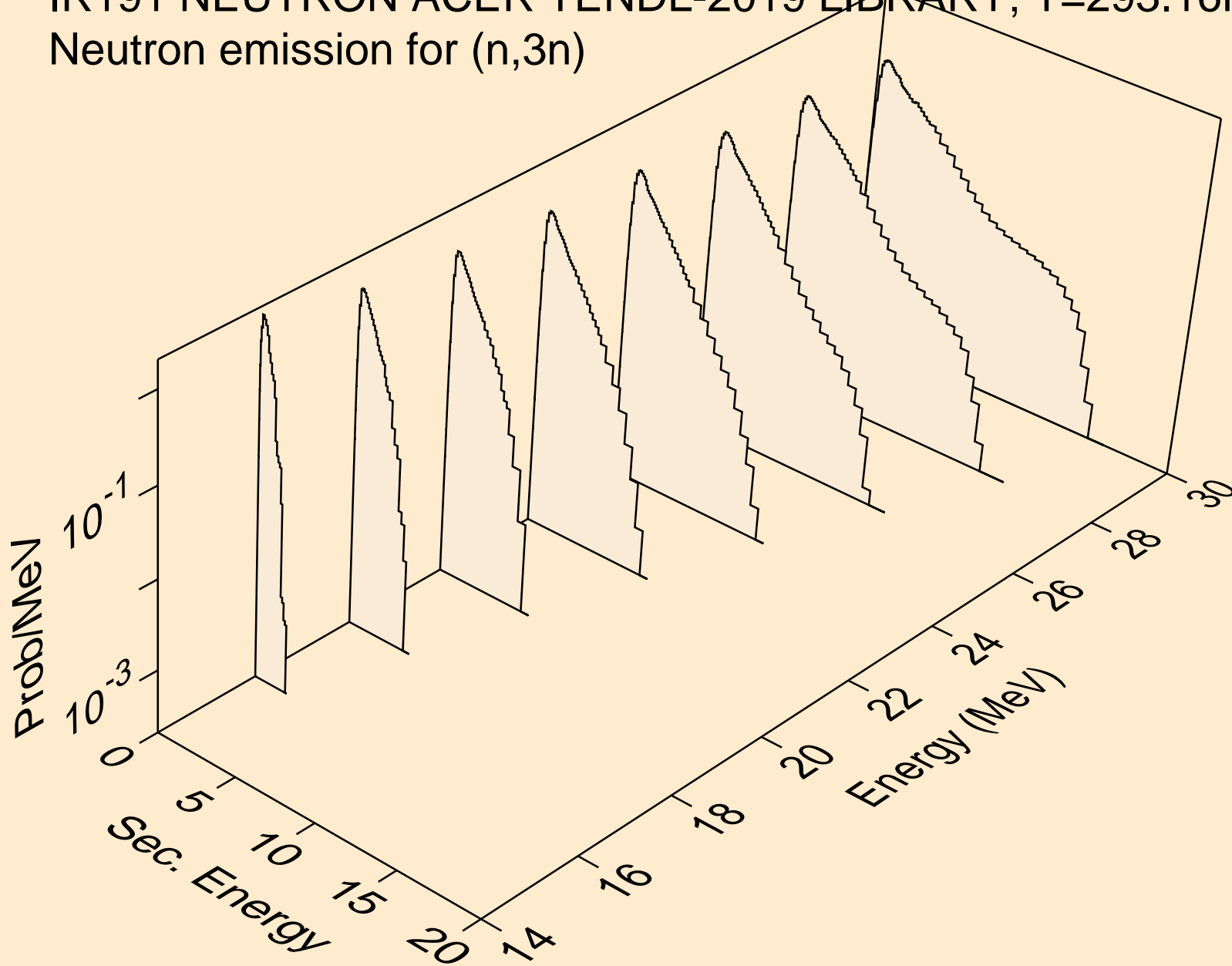




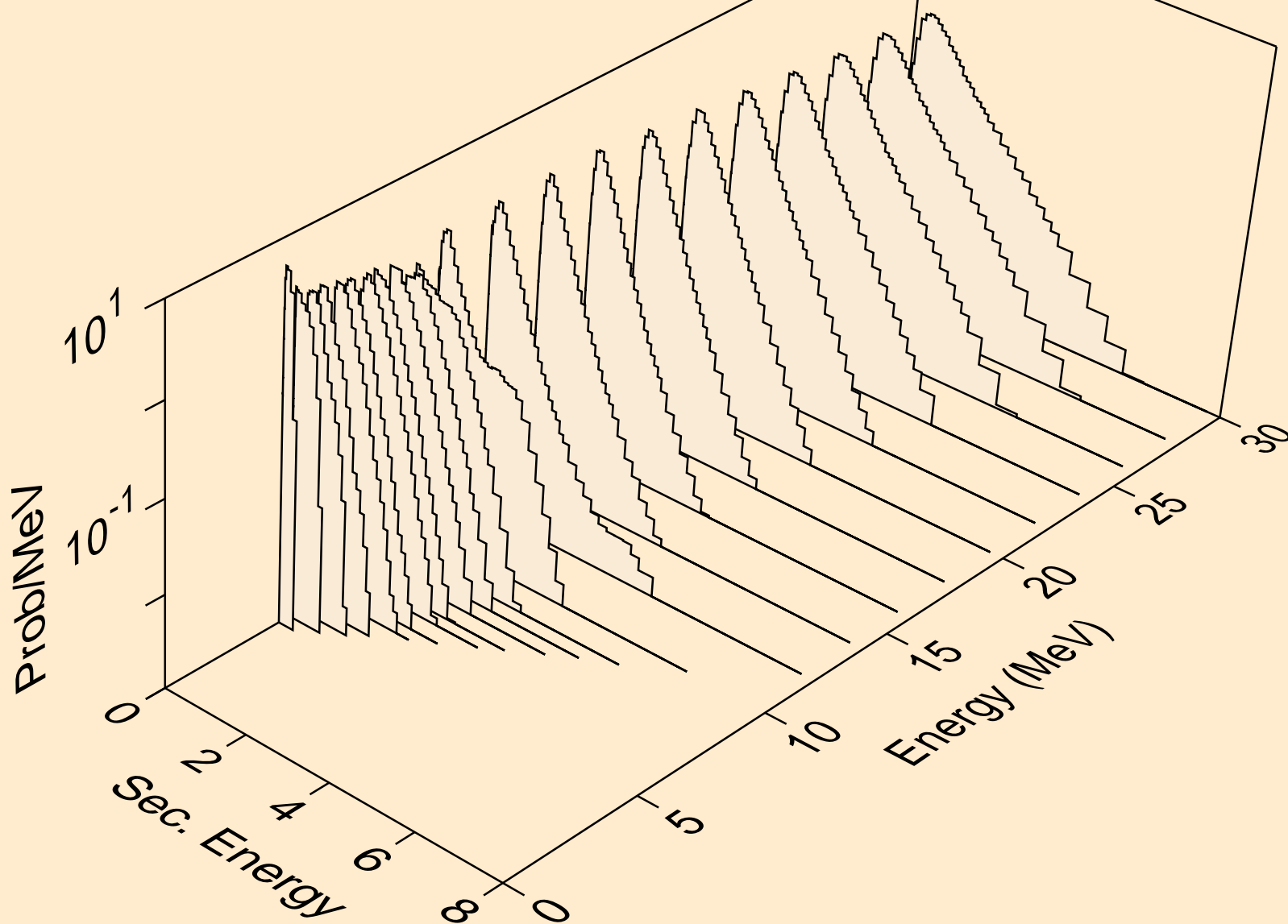
IR191 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,2n)



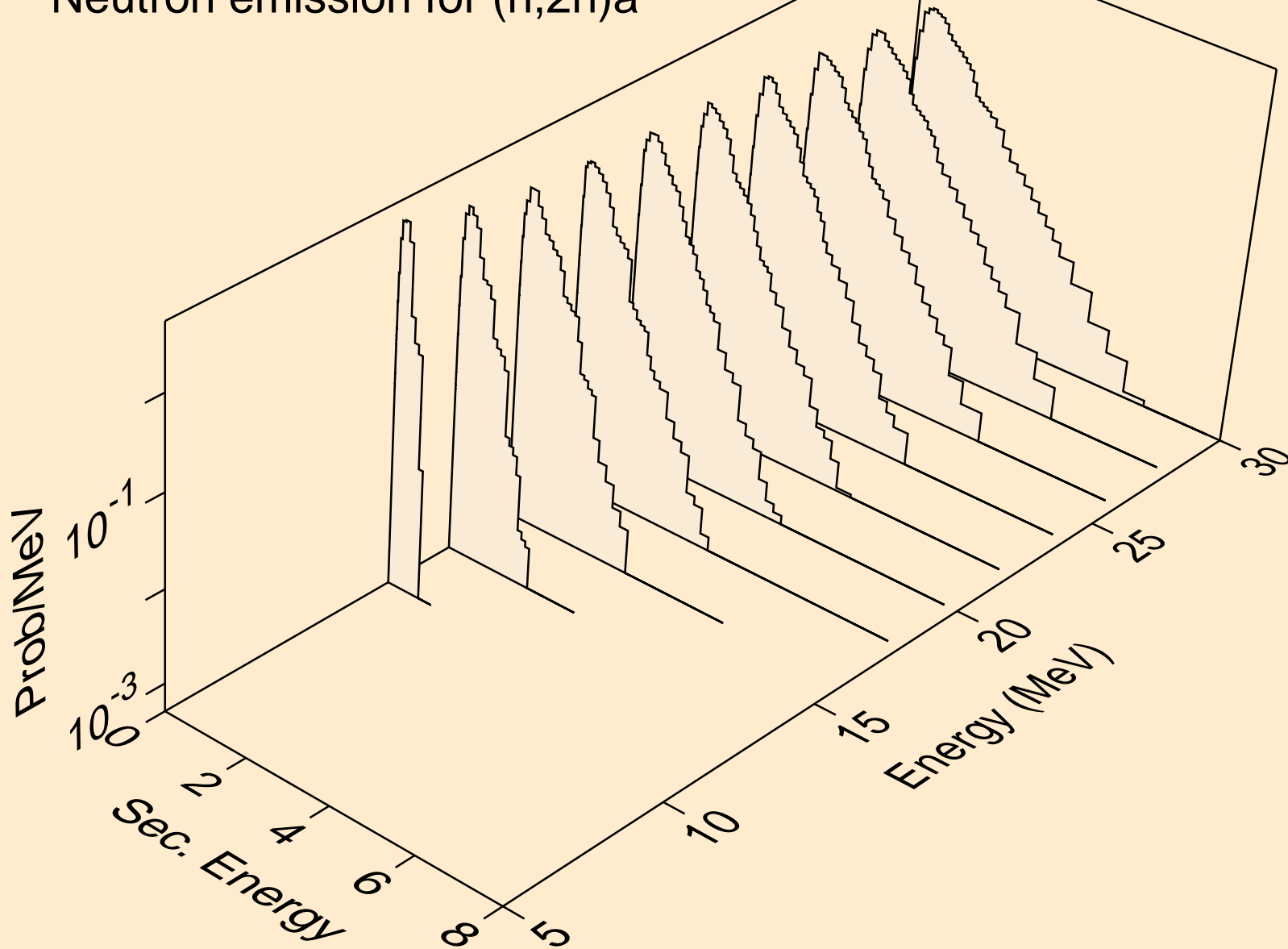
IR191 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,3n)



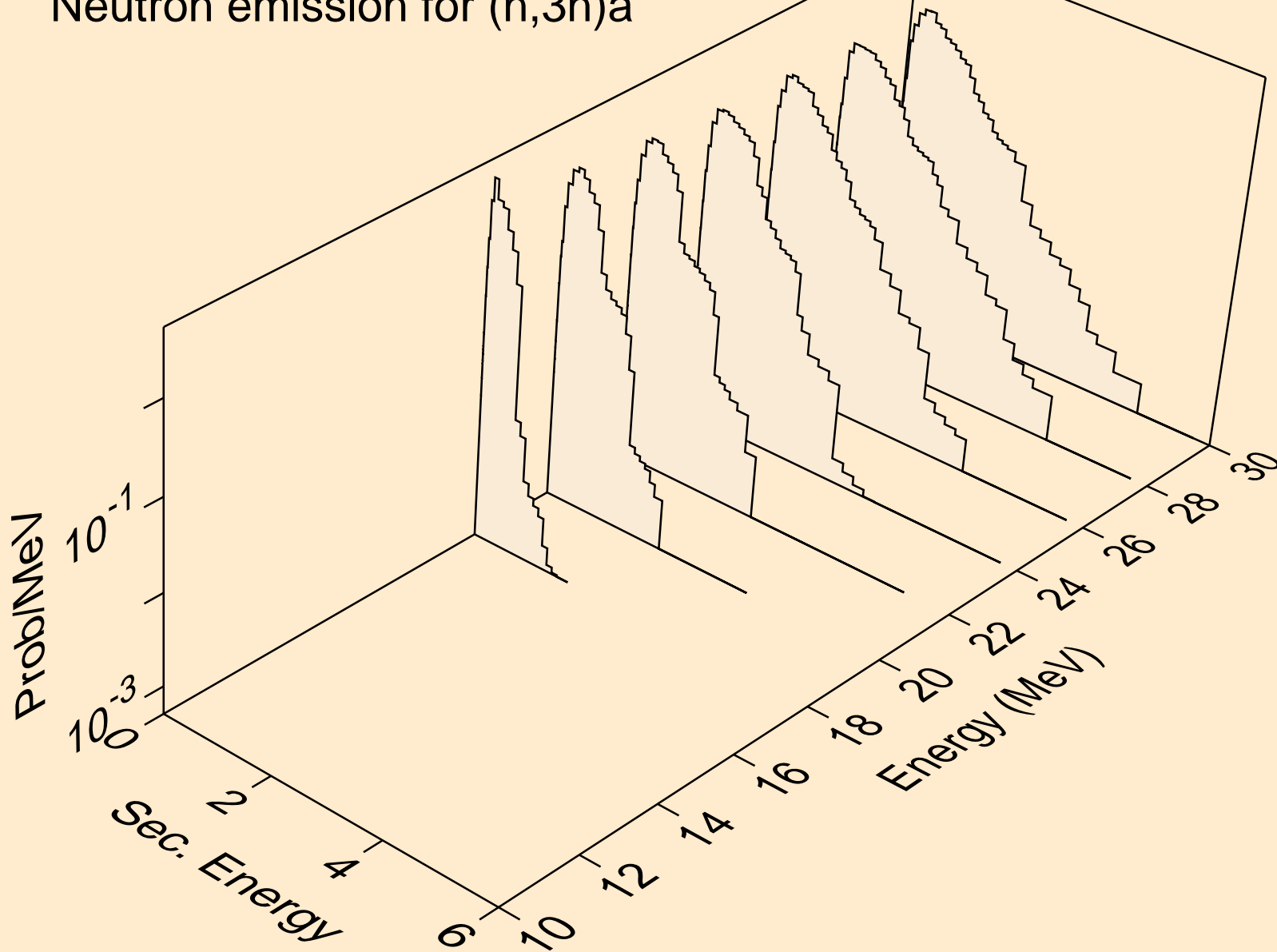
IR191 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,n\*)a



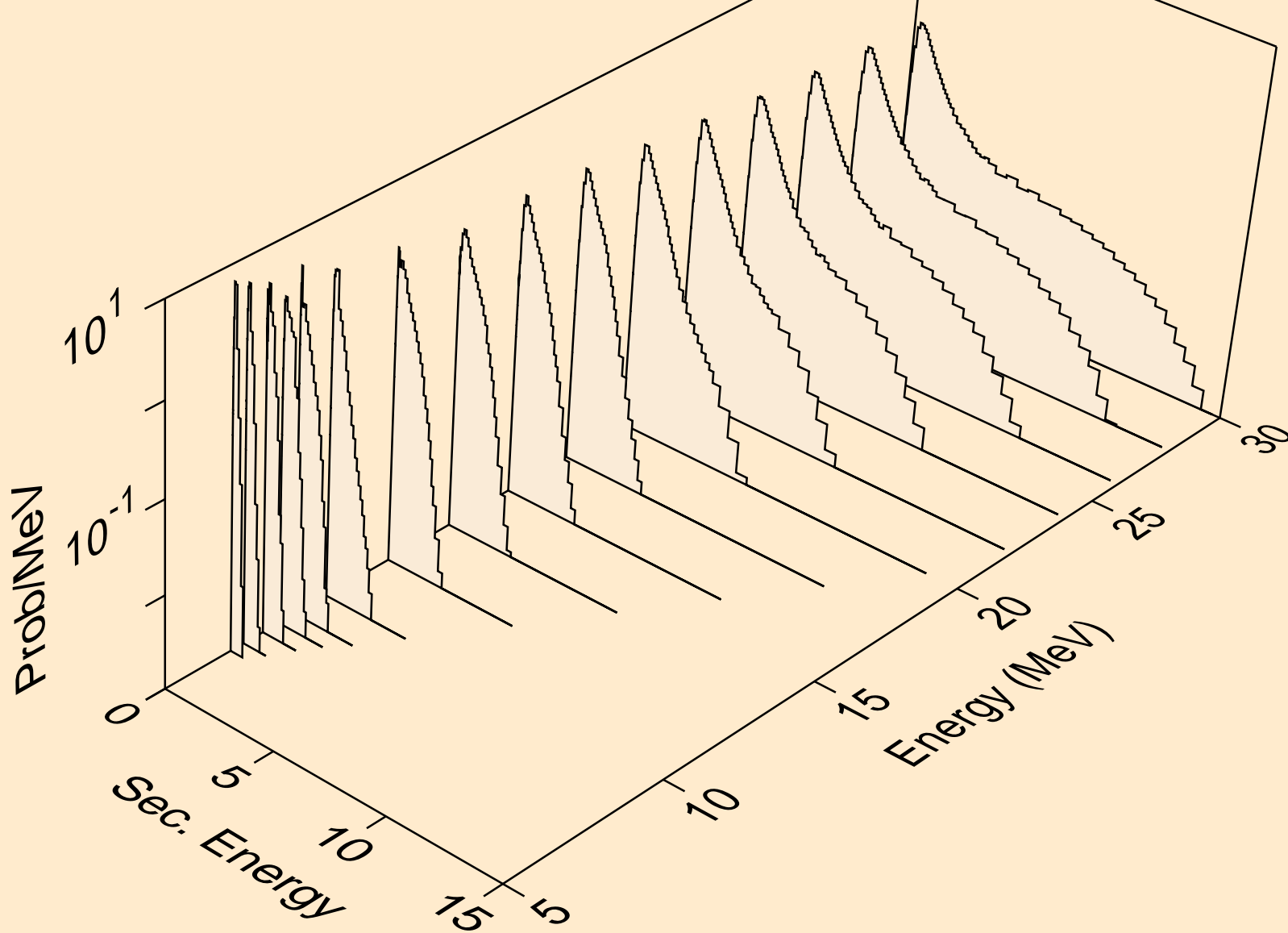
IR191 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,2n)a



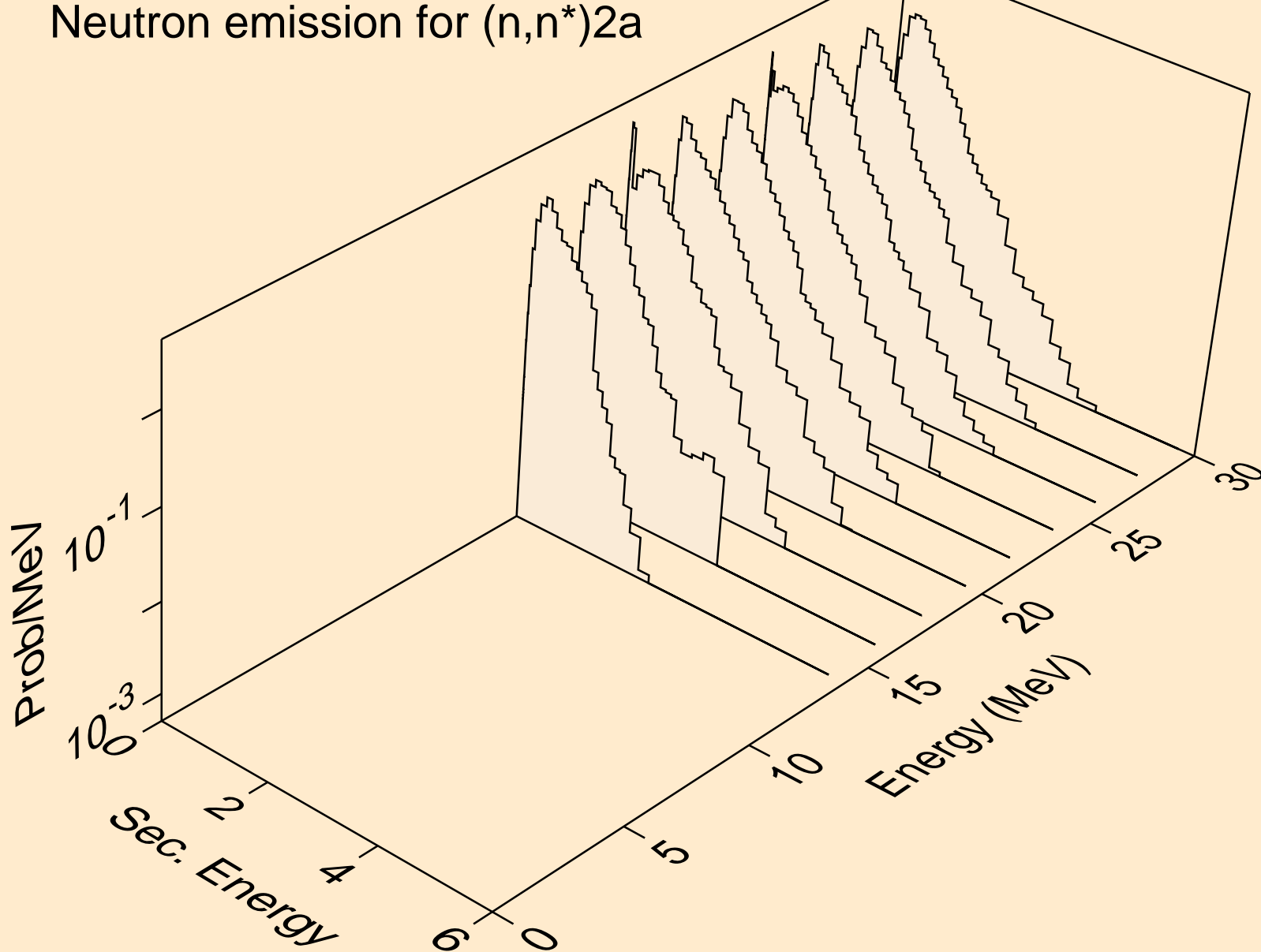
IR191 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,3n)a



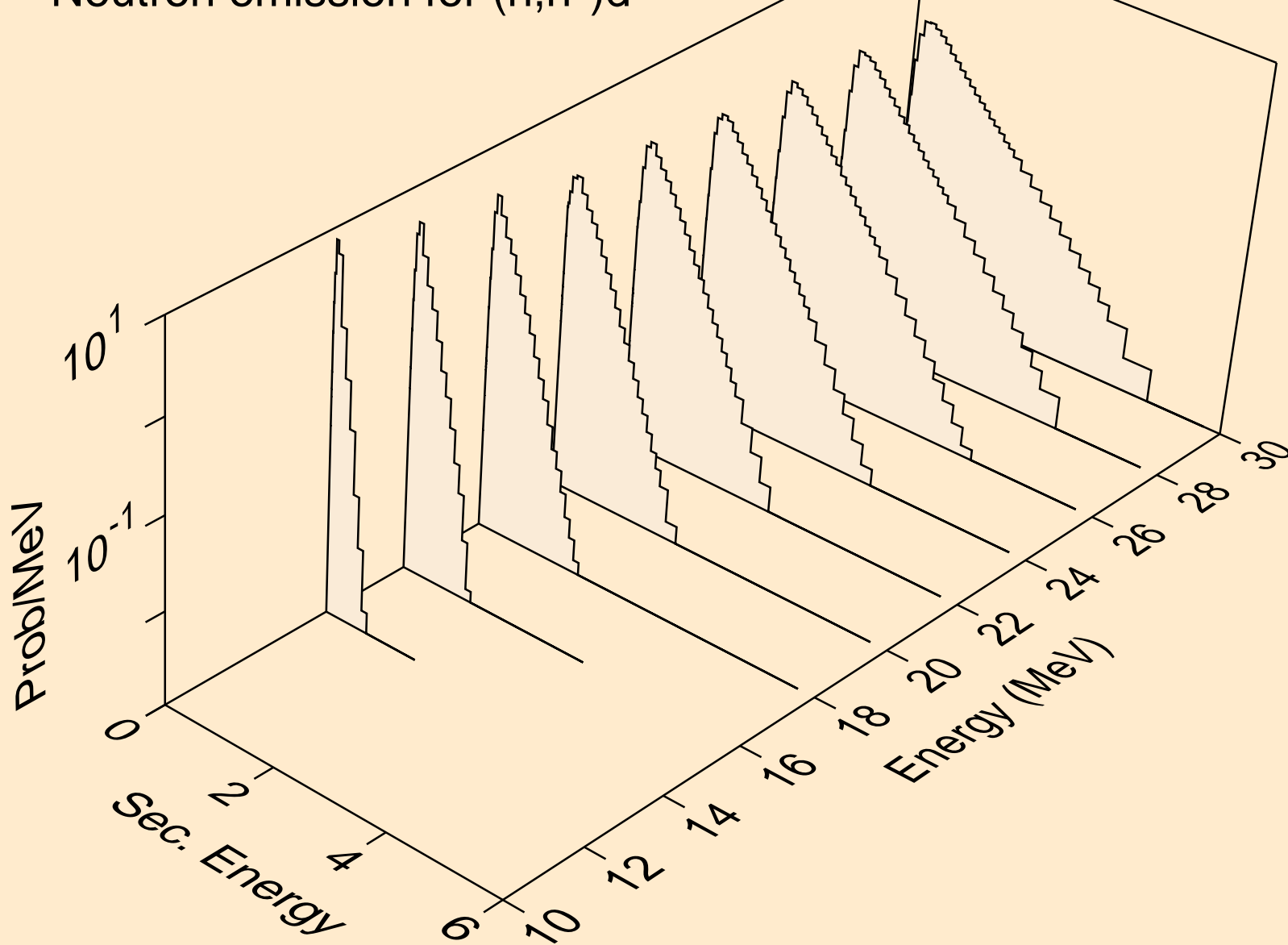
IR191 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,n\*)p



IR191 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,n\*)2a

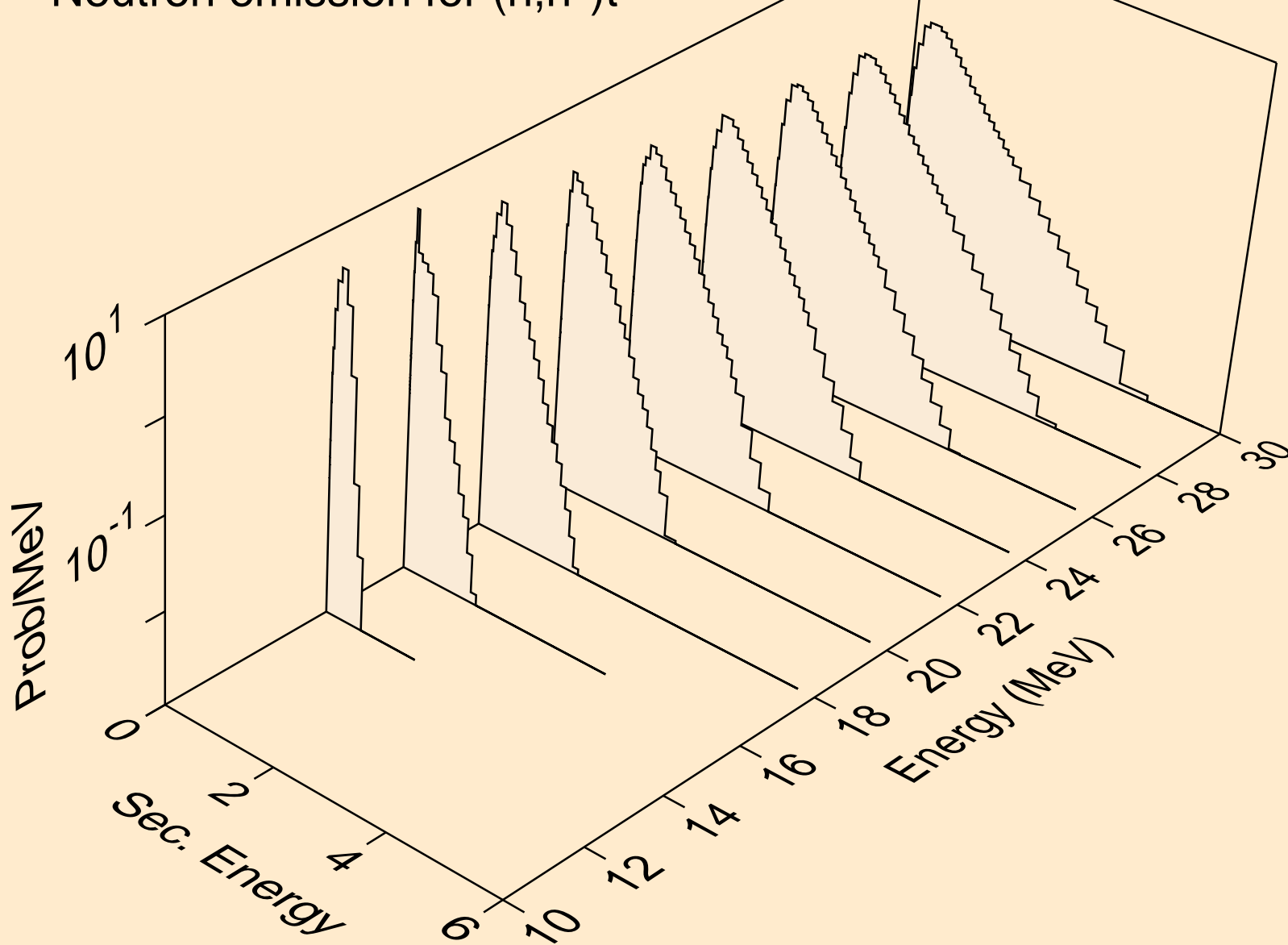


IR191 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,n\*)d

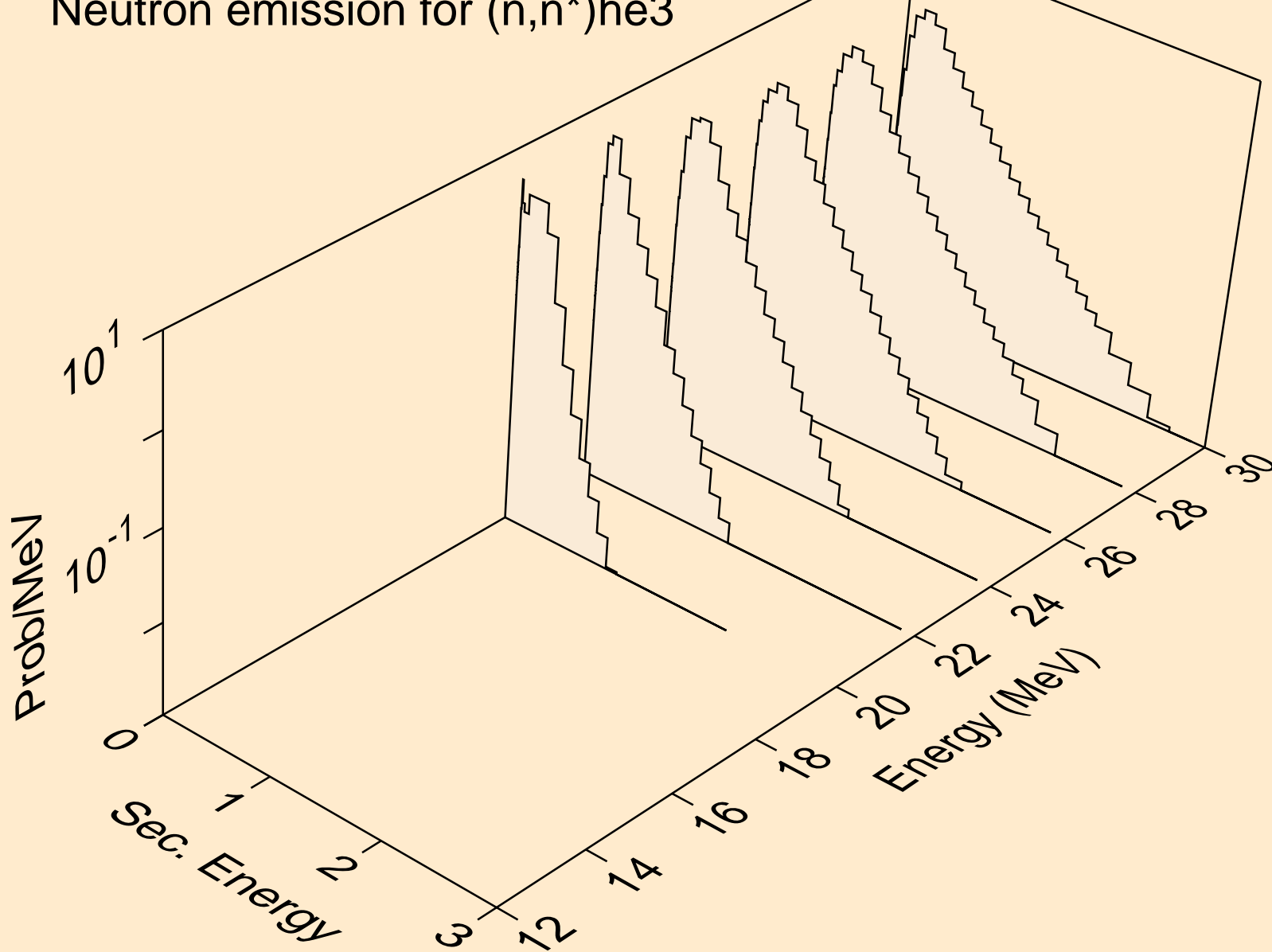




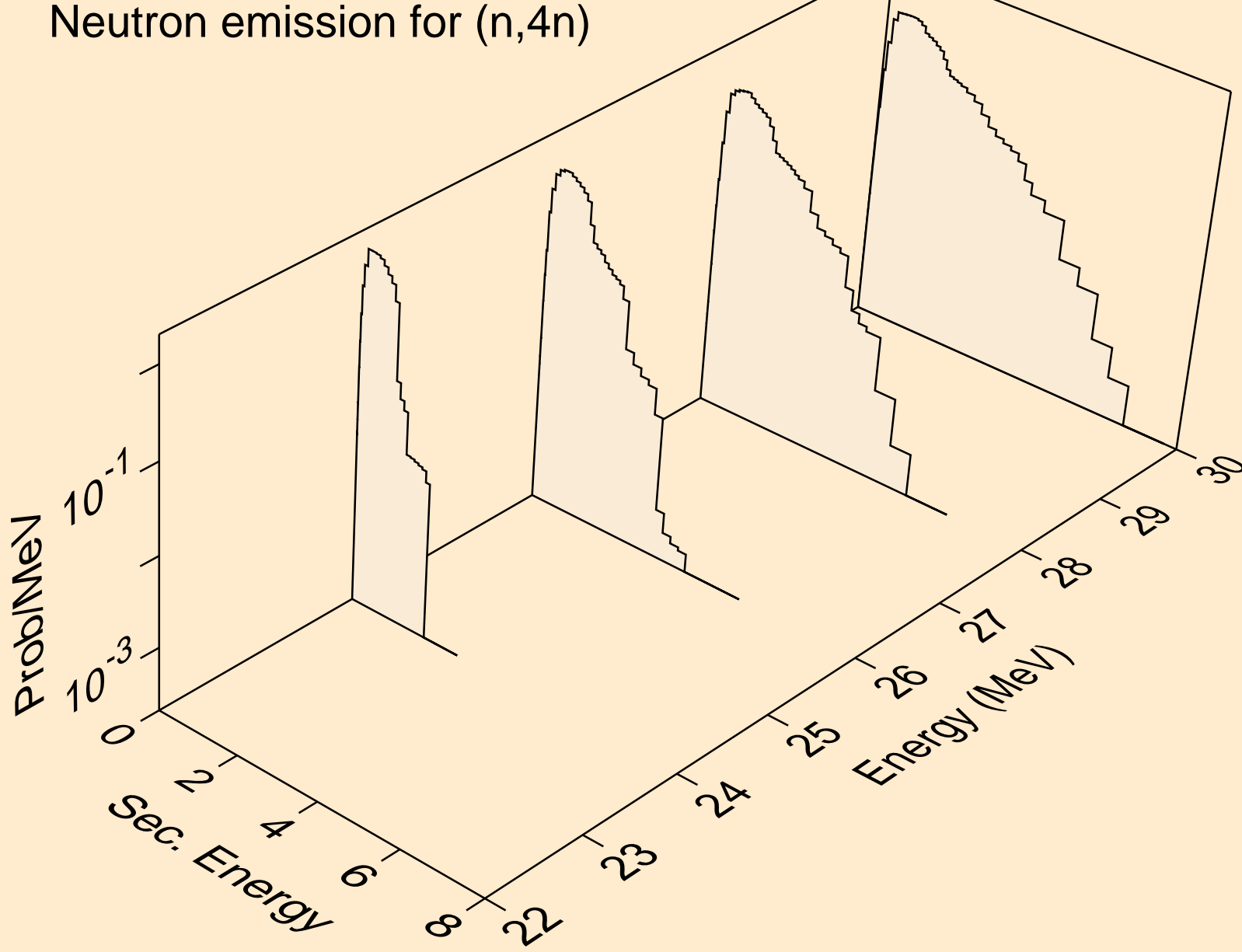
IR191 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,n\*)t



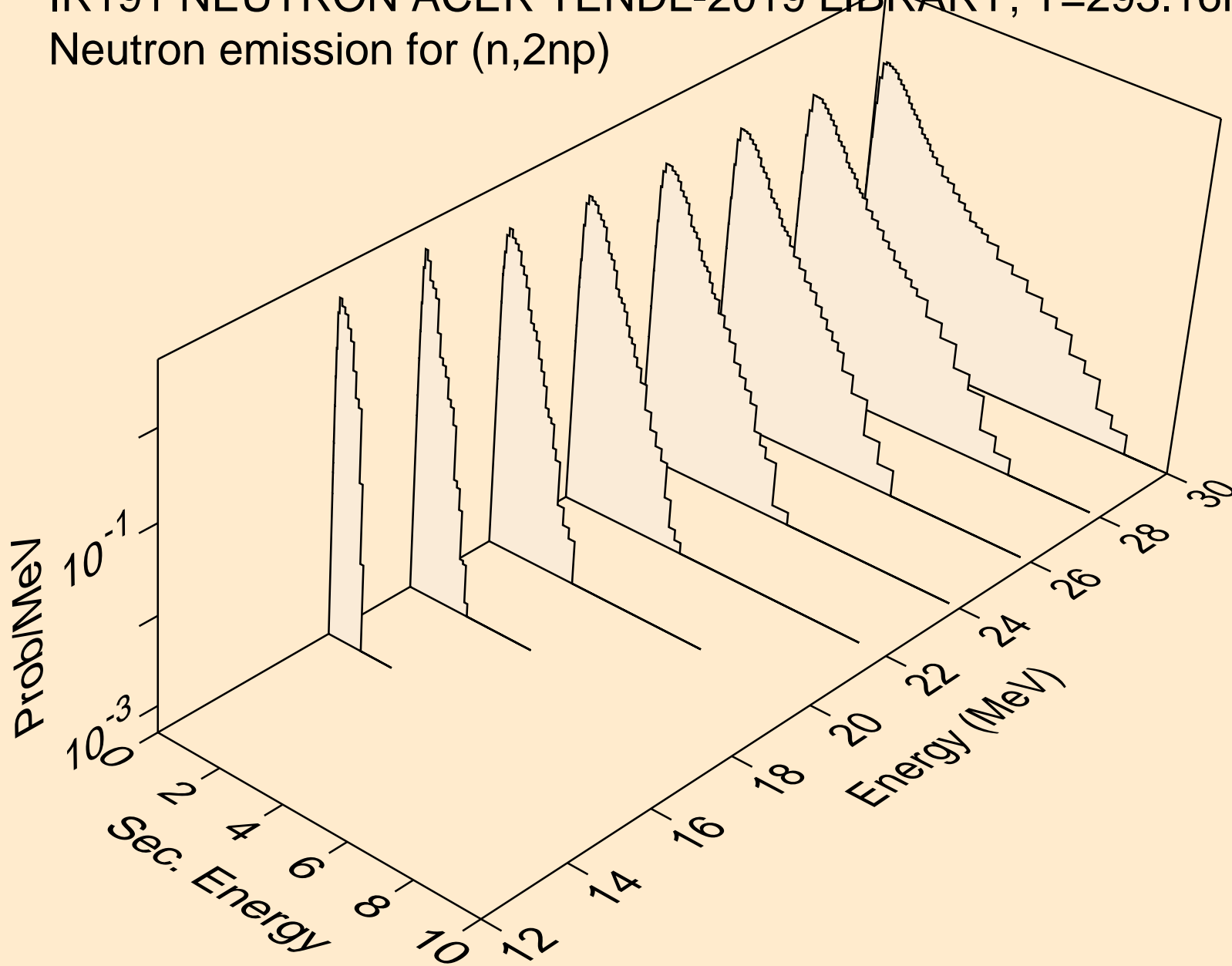
IR191 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,n\*)he3



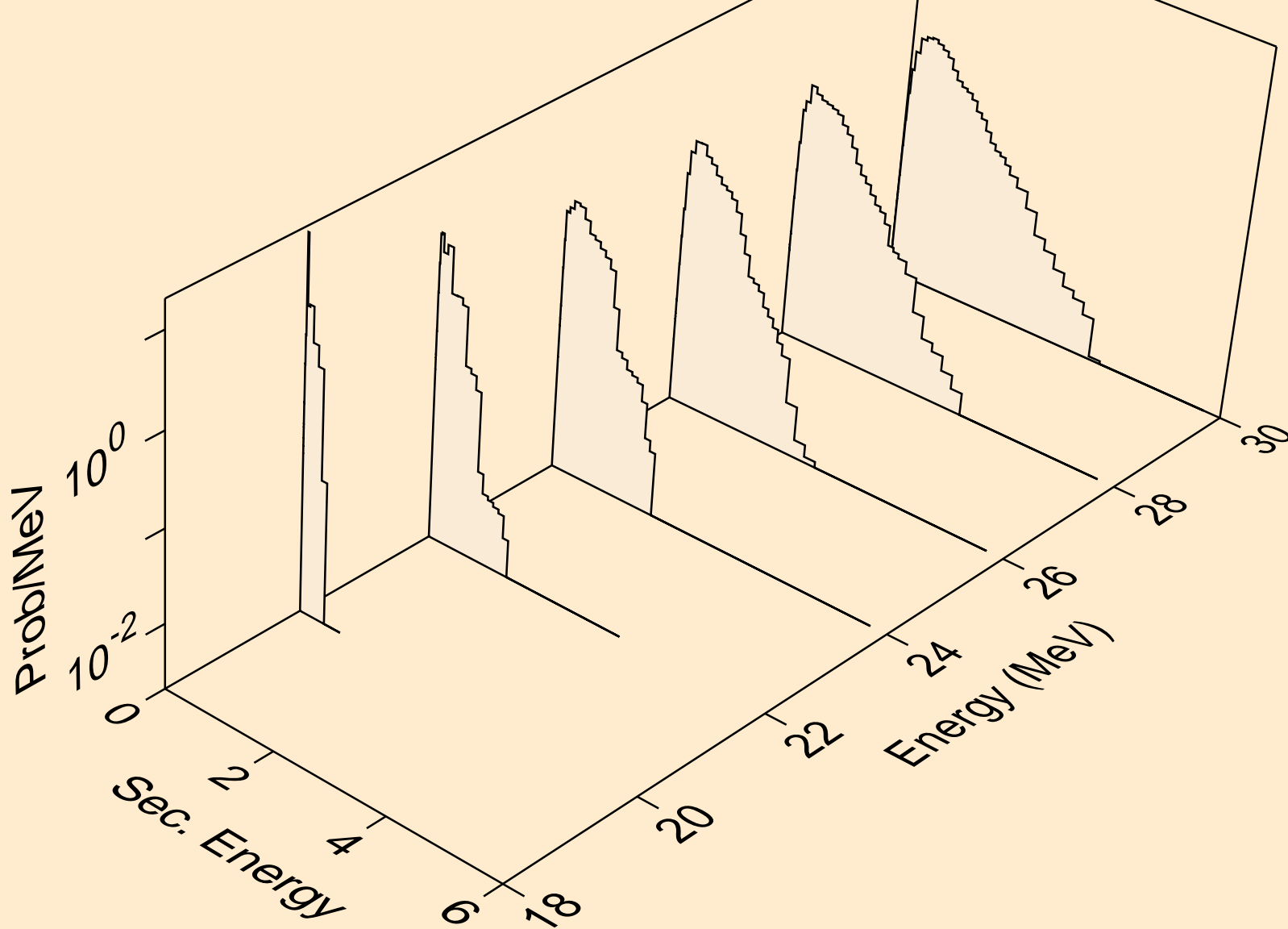
IR191 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,4n)



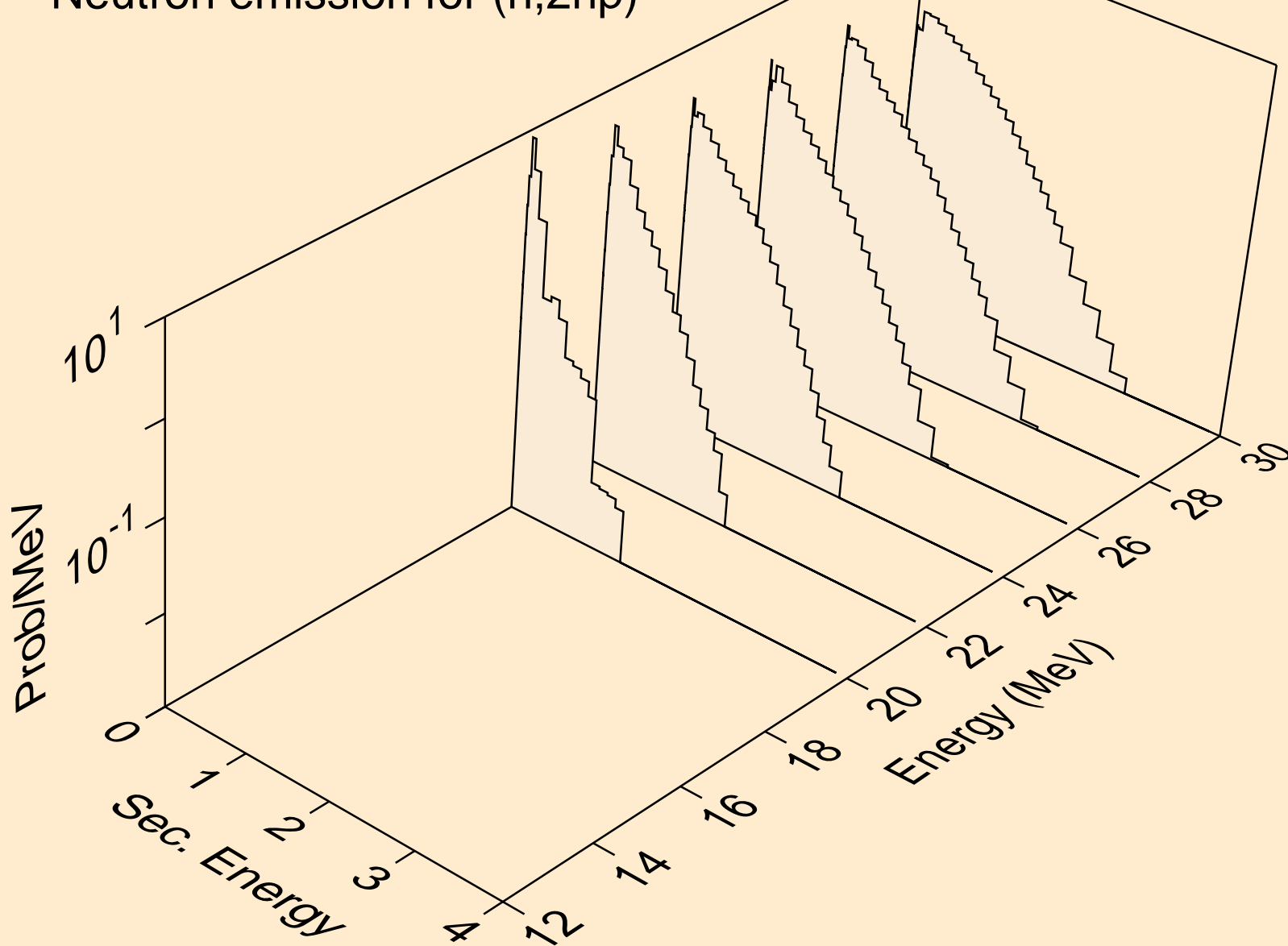
IR191 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,2np)



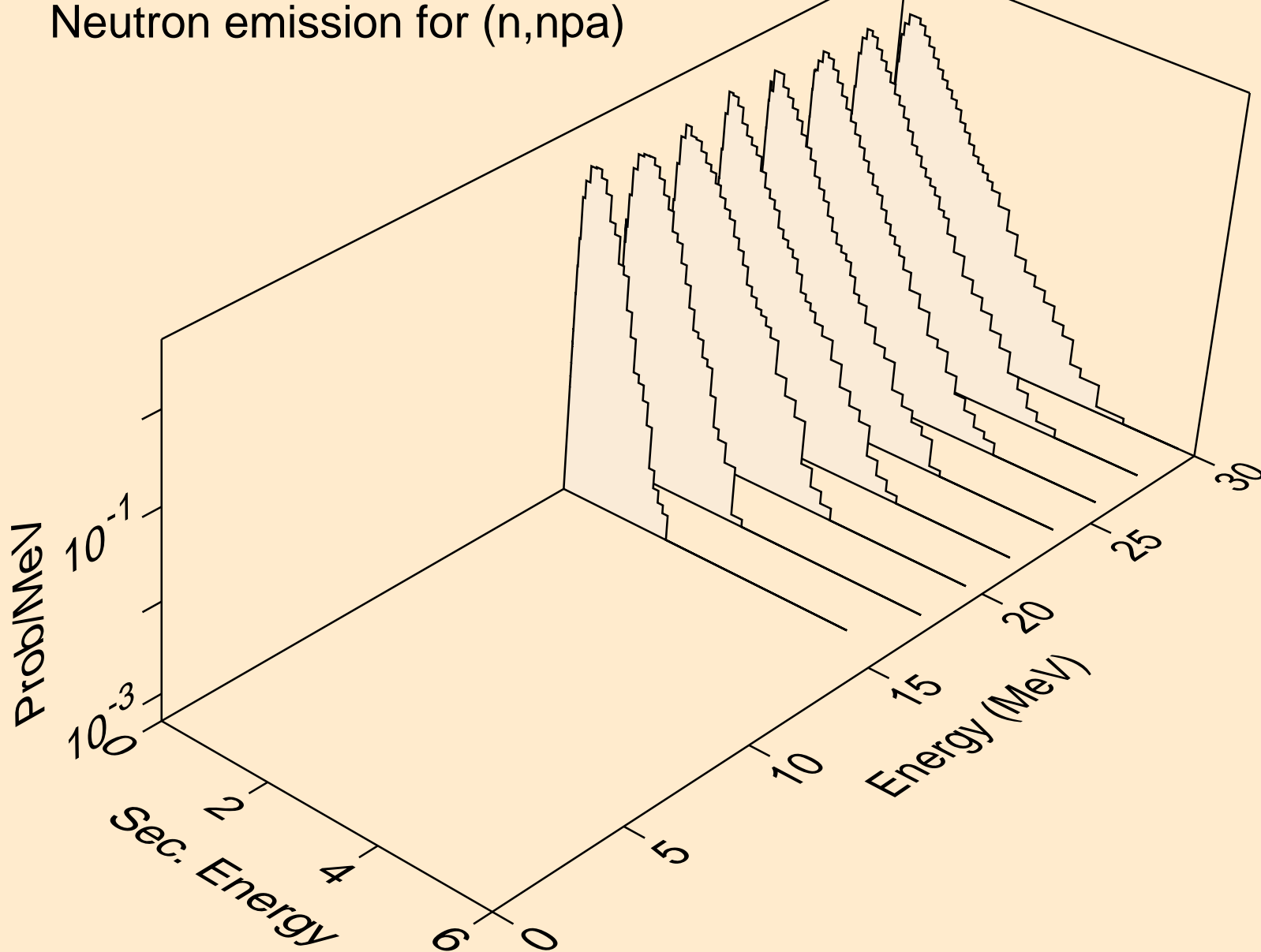
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Neutron emission for (n,3np)



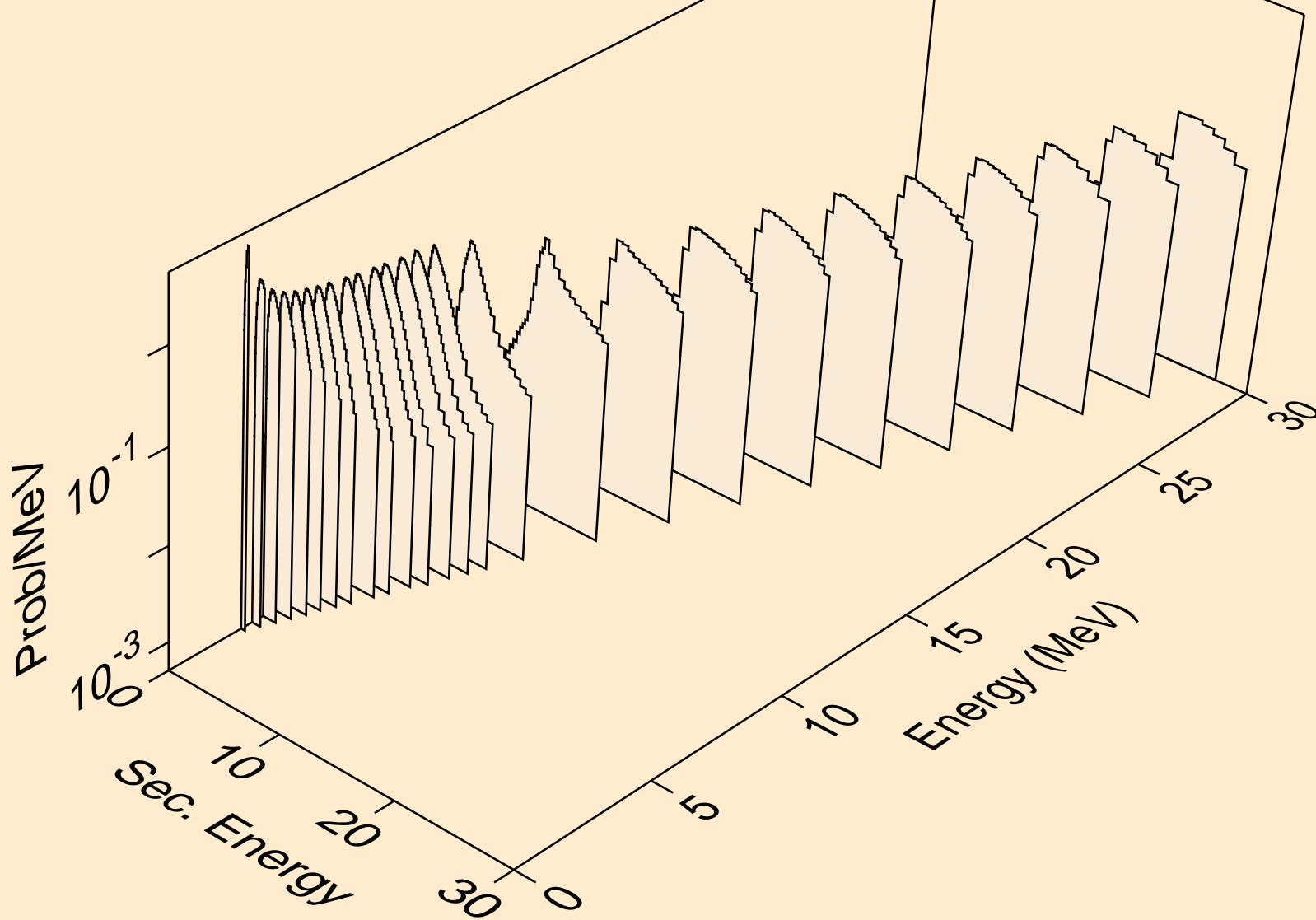
IR191 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,2np)



IR191 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,npa)

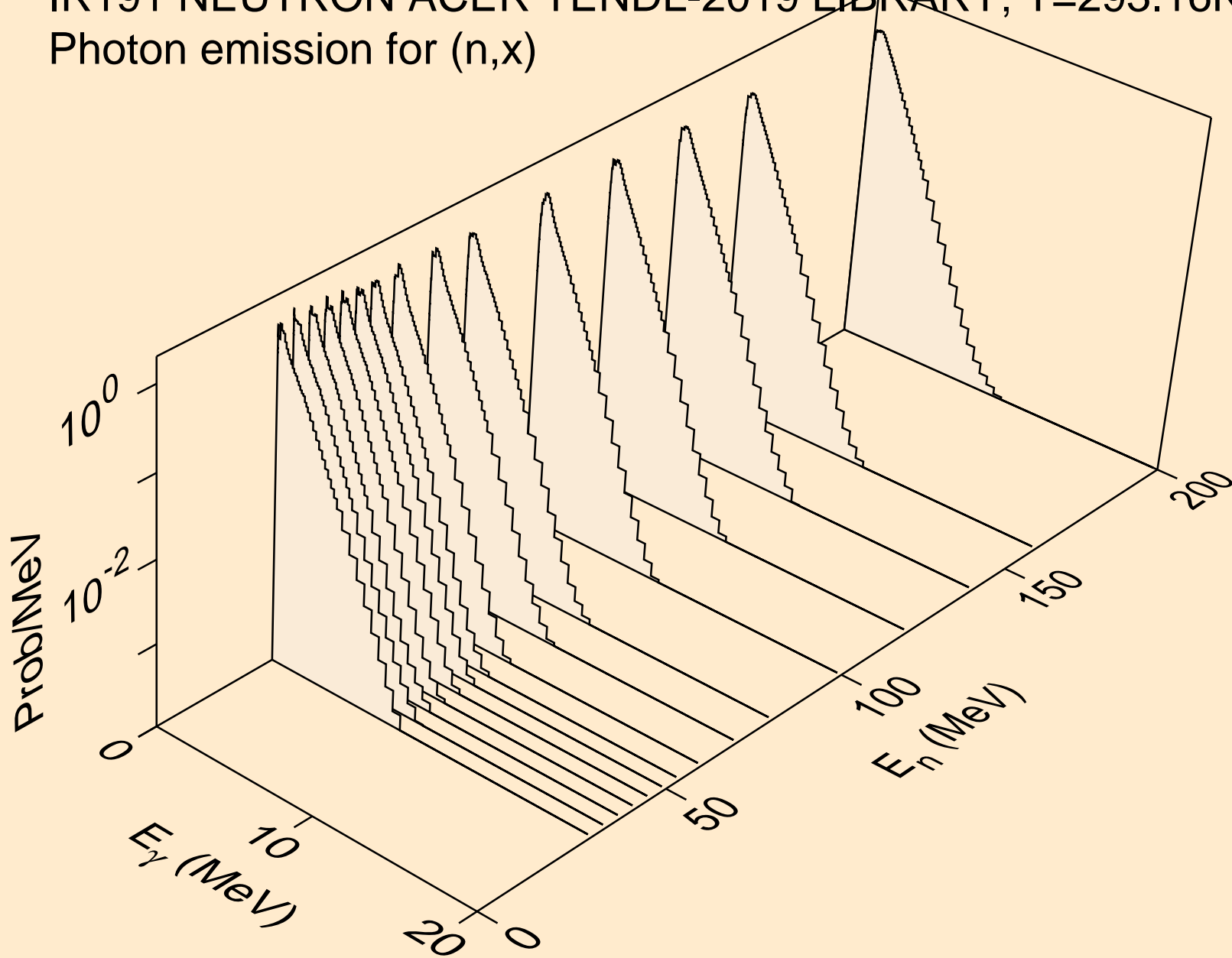


IR191 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,n\*c)

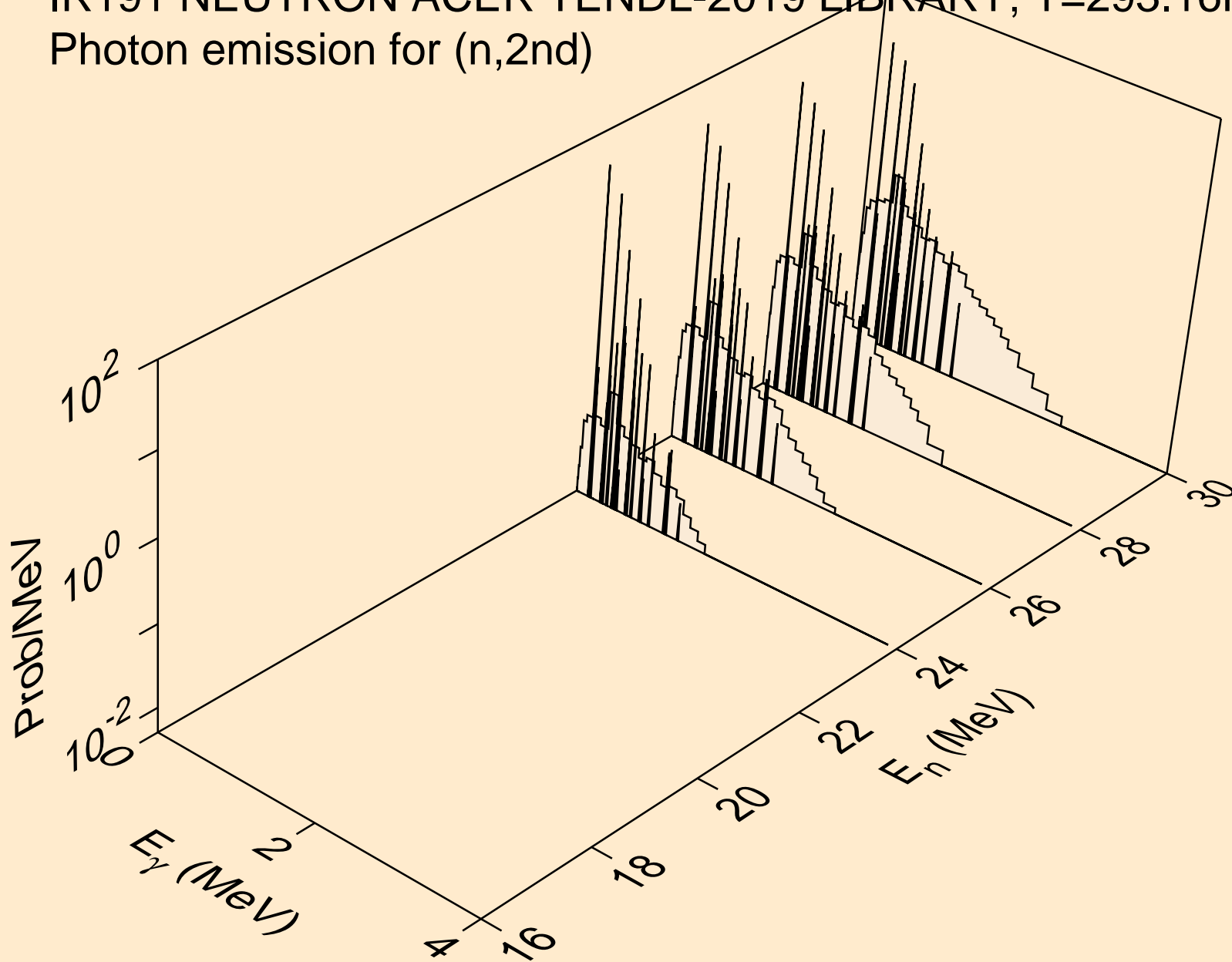




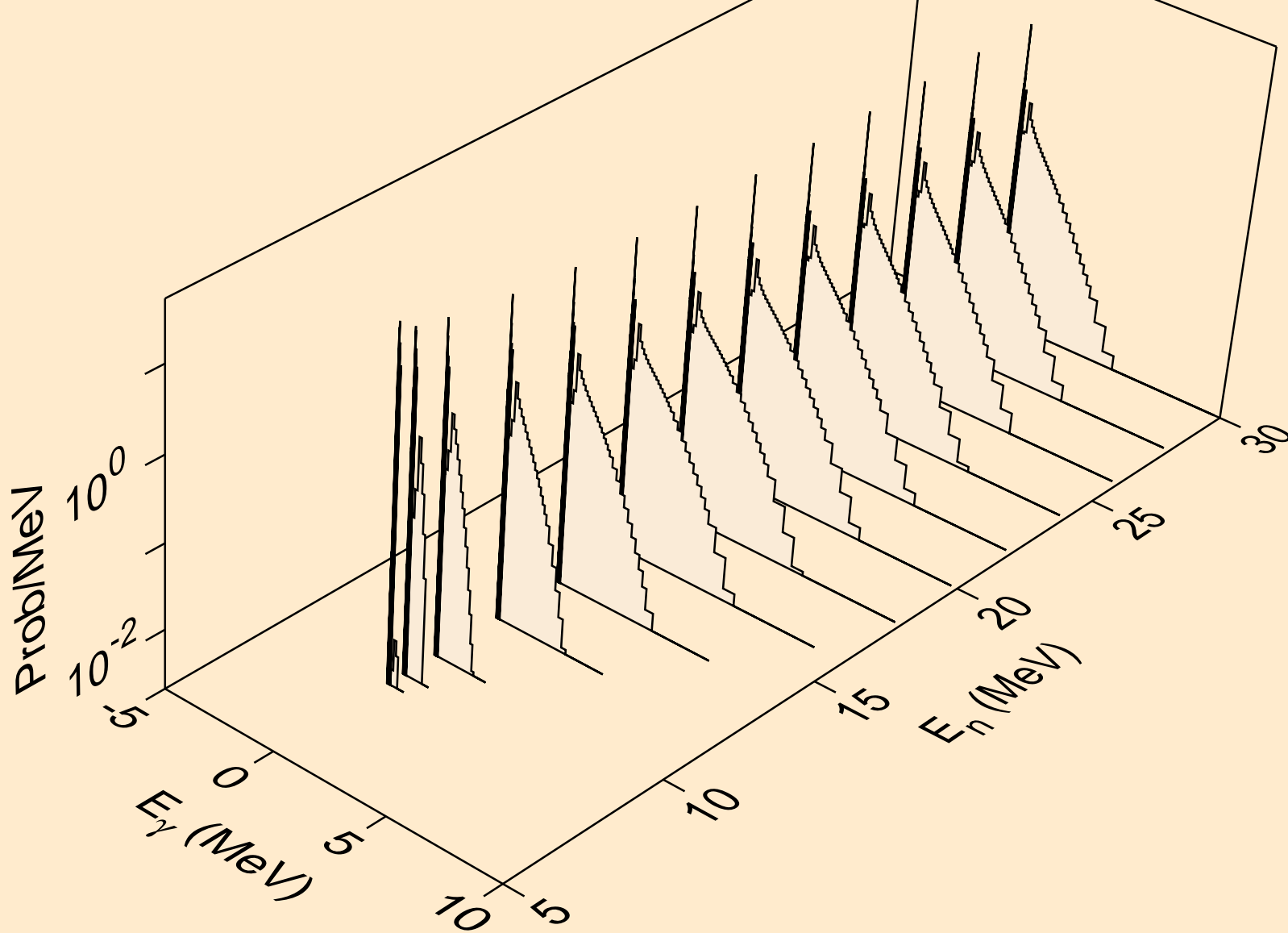
IR191 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,x)



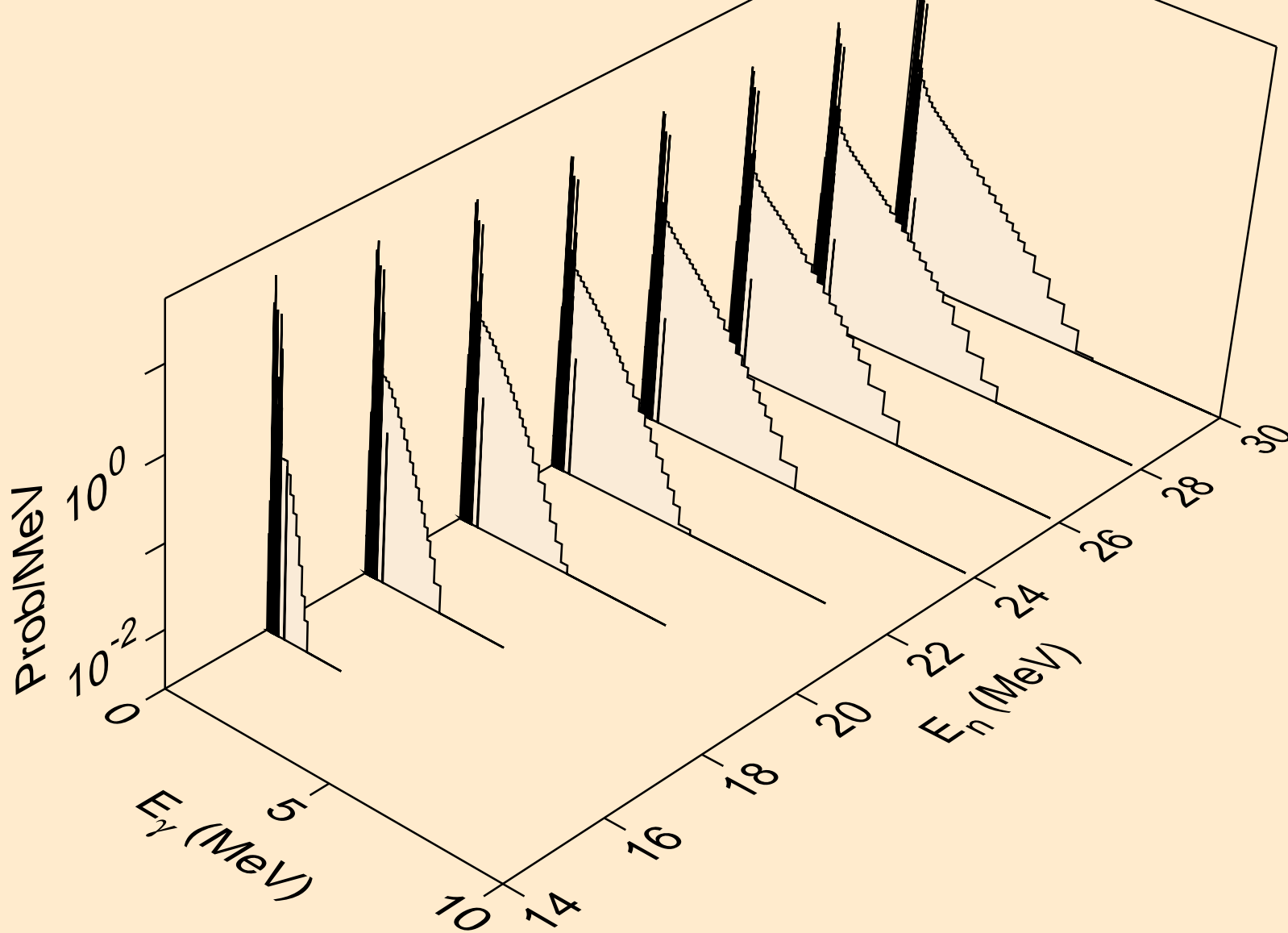
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Photon emission for (n,2nd)



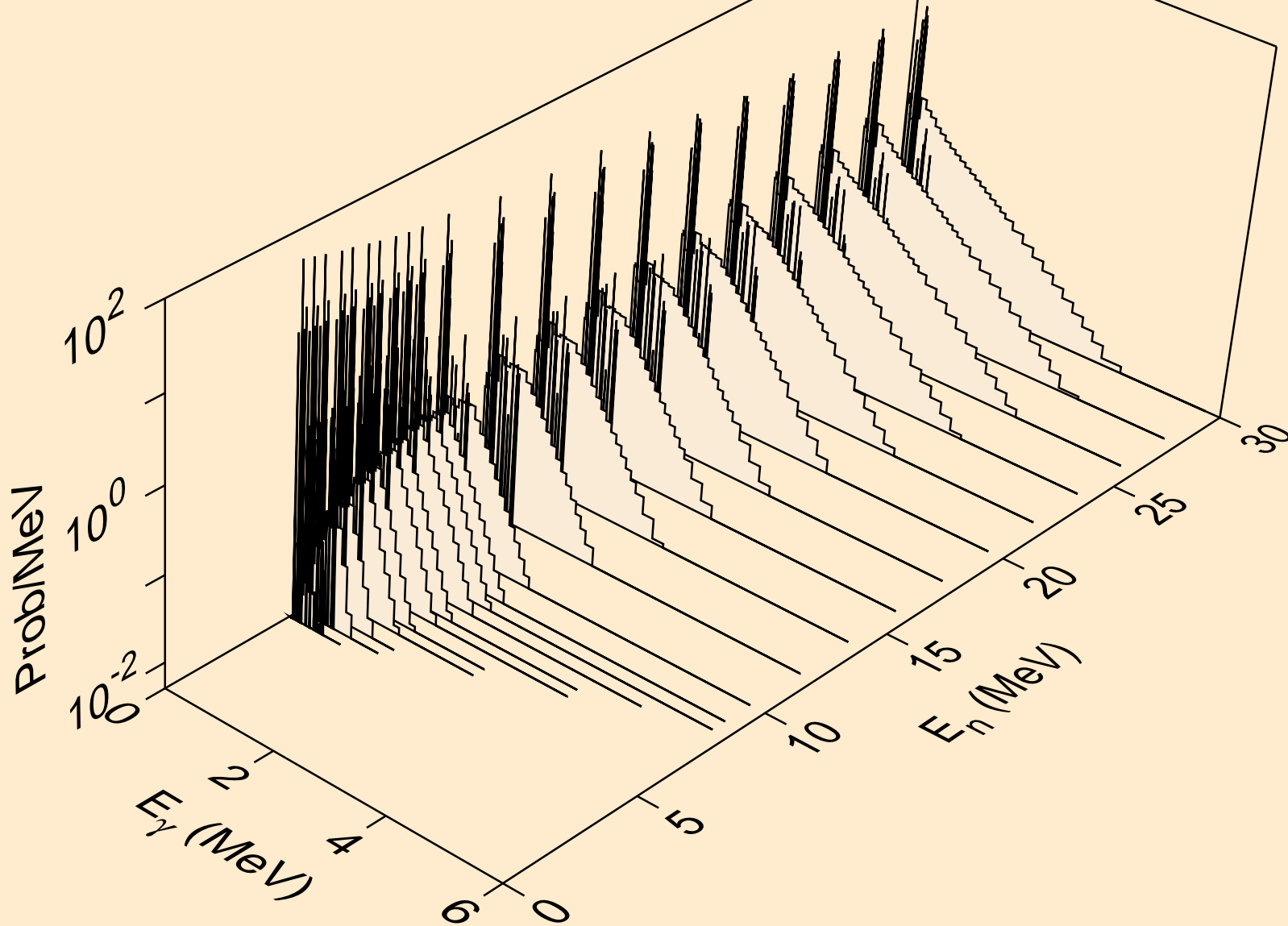
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Photon emission for (n,2n)



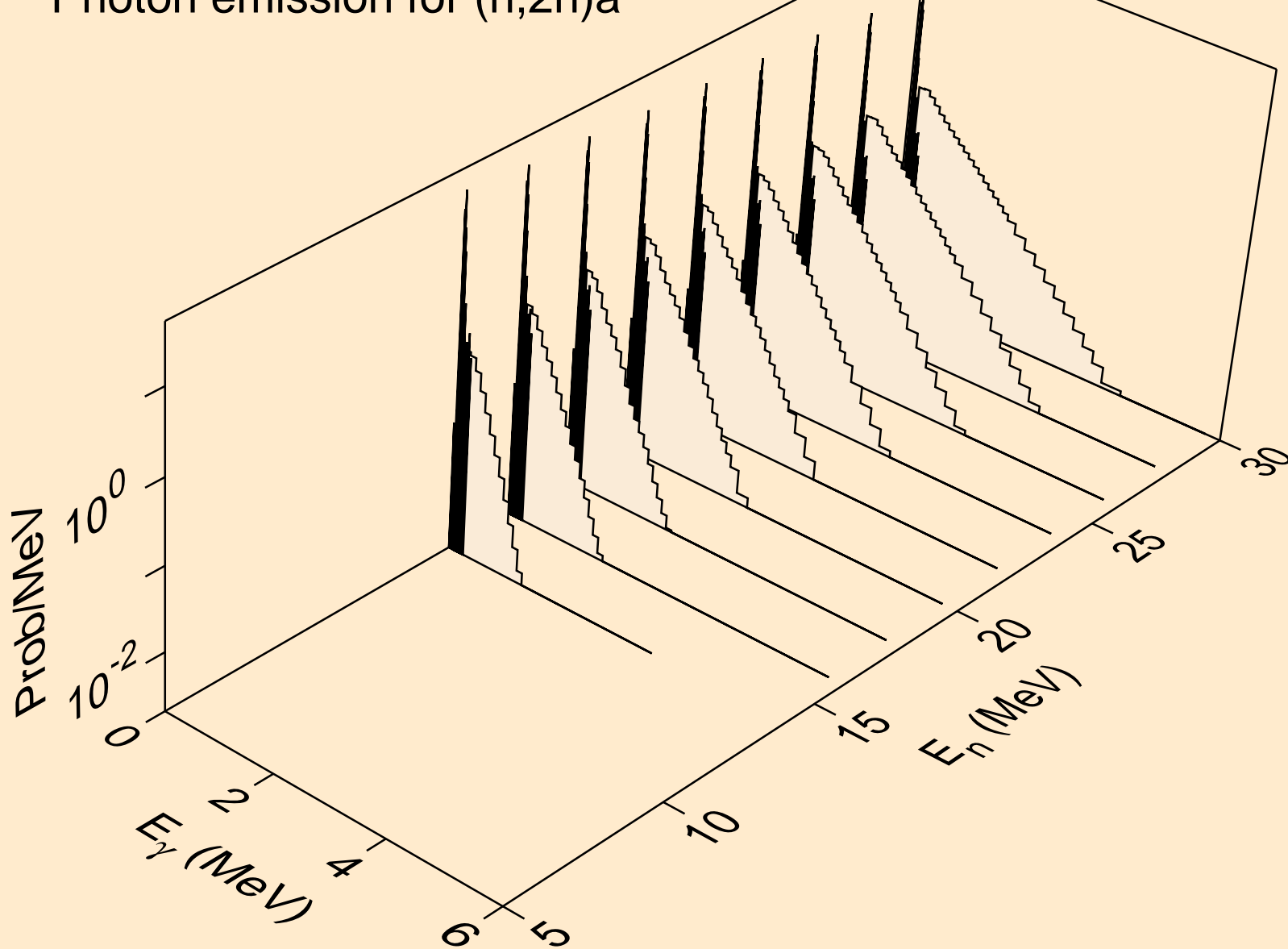
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Photon emission for (n,3n)



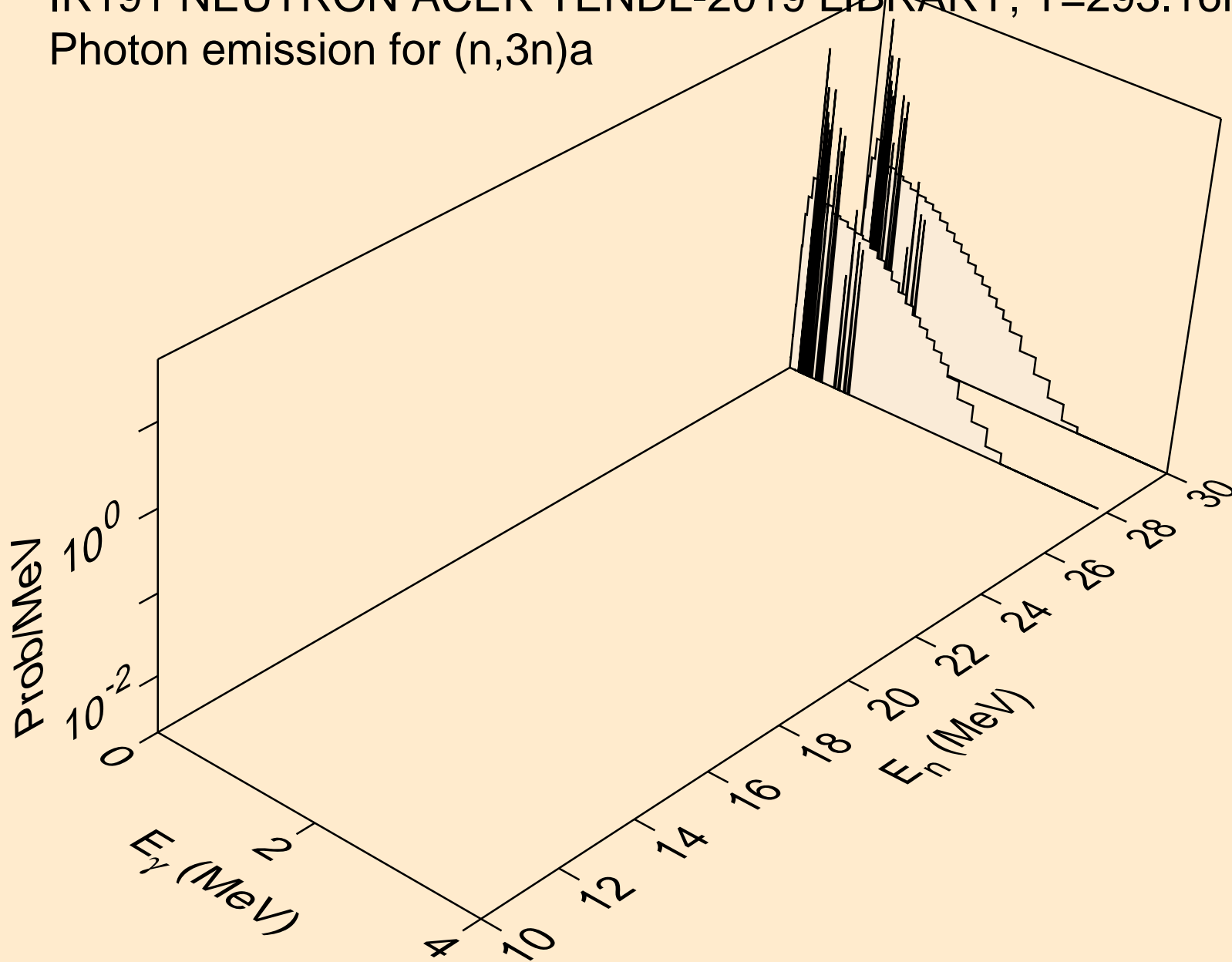
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Photon emission for (n,n\*)a



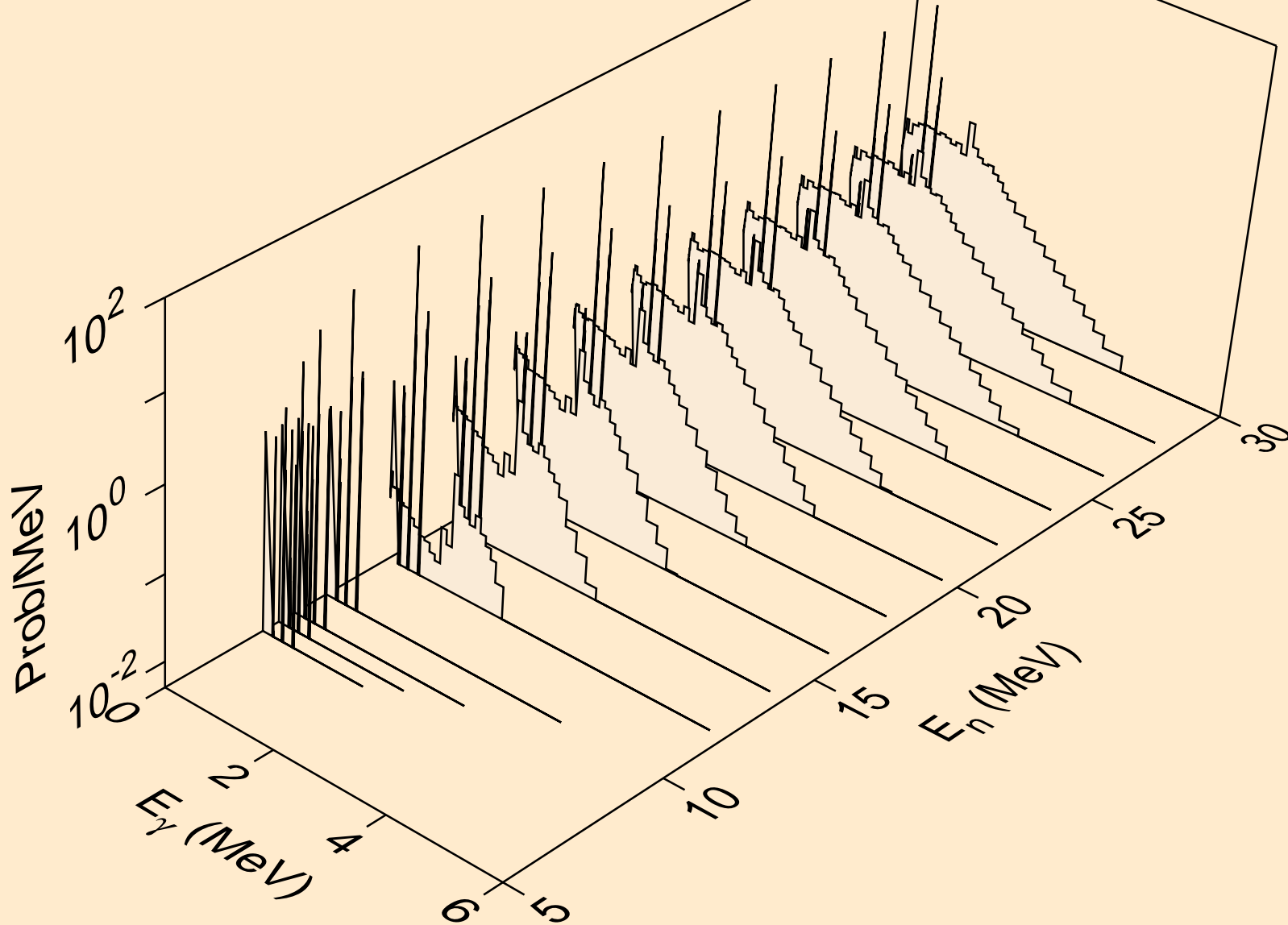
IR191 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,2n)a



IR191 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,3n)a

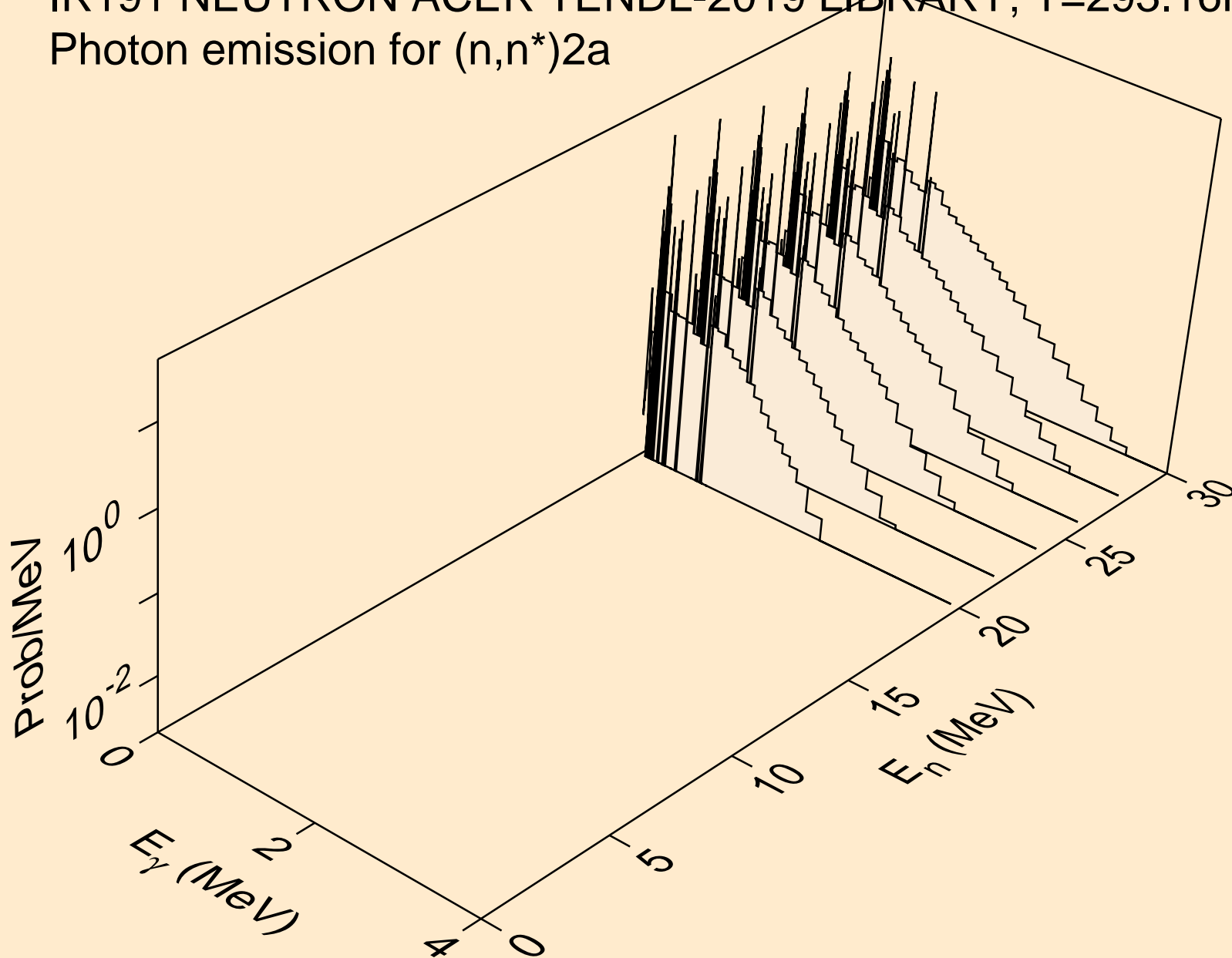


IR191 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,n\*)p

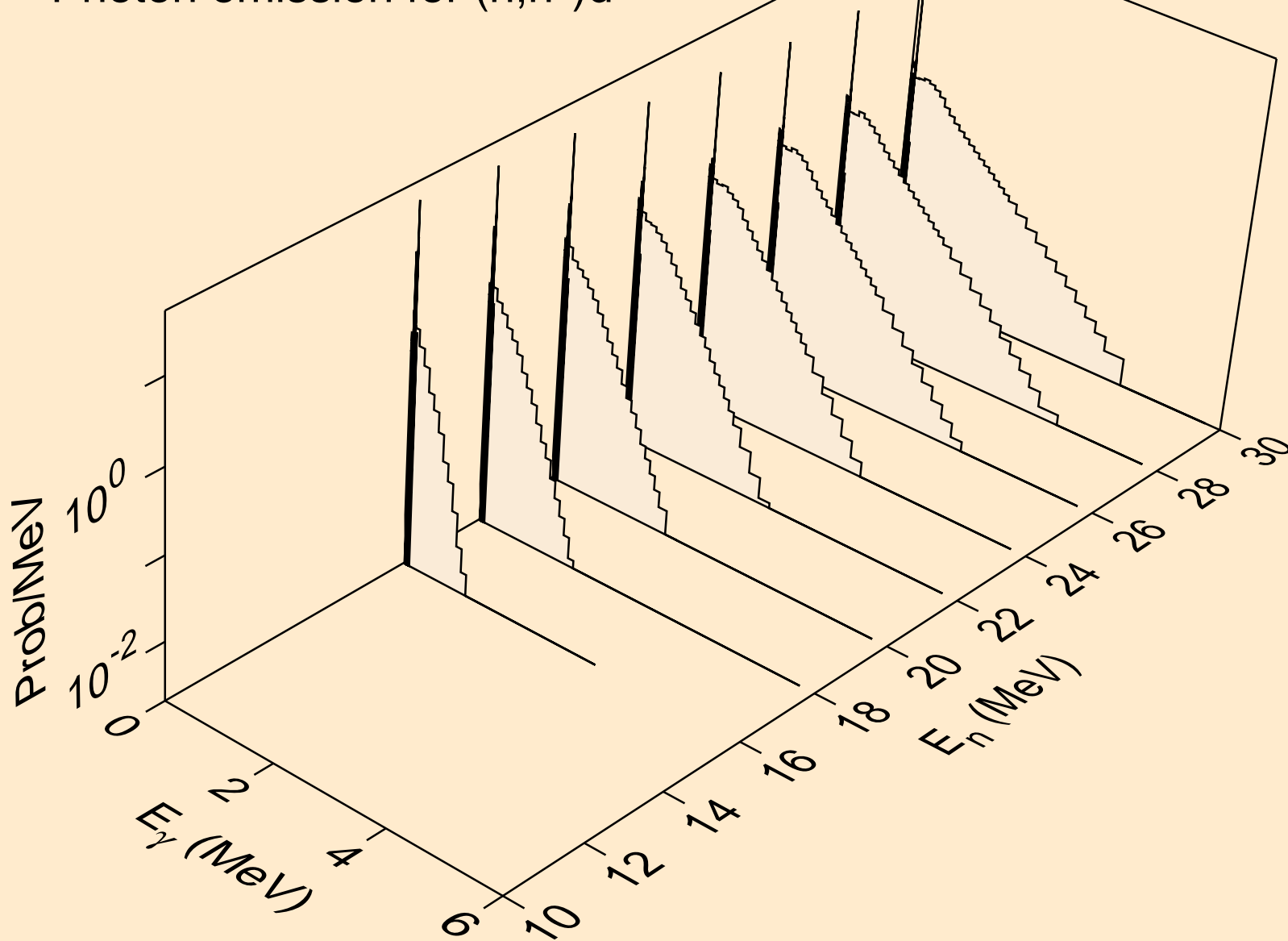




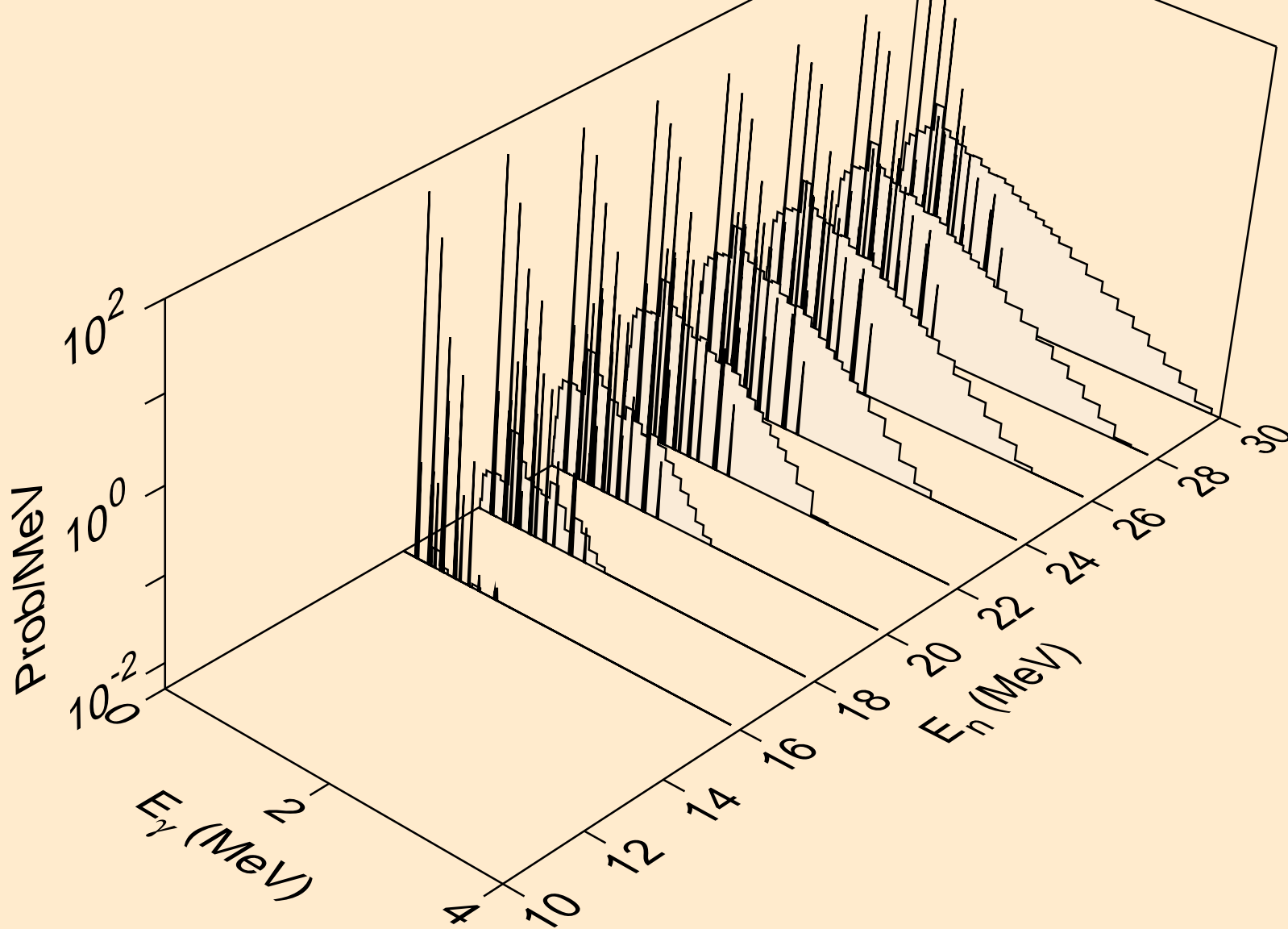
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Photon emission for (n,n\*)2a



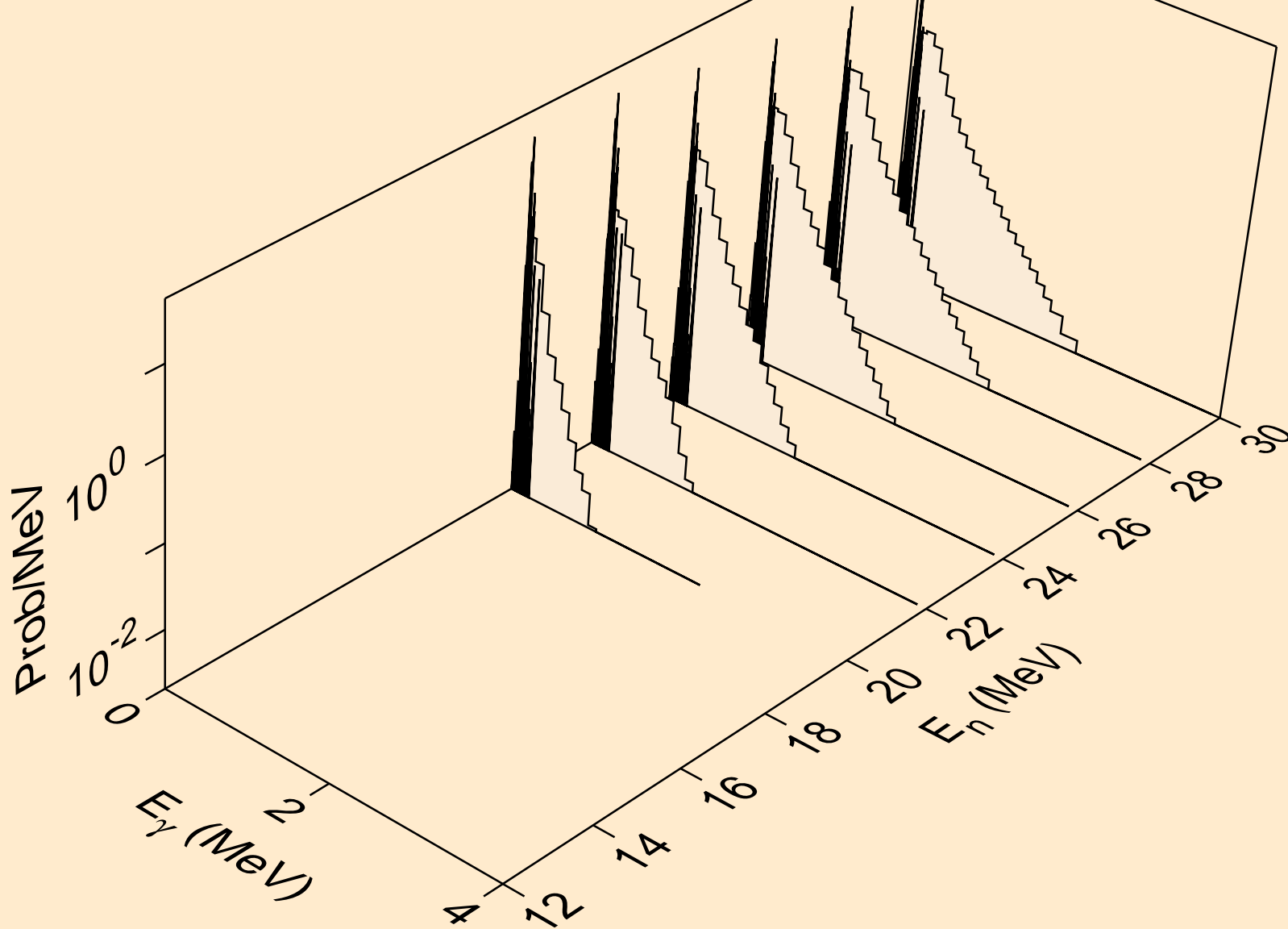
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Photon emission for (n,n\*)d



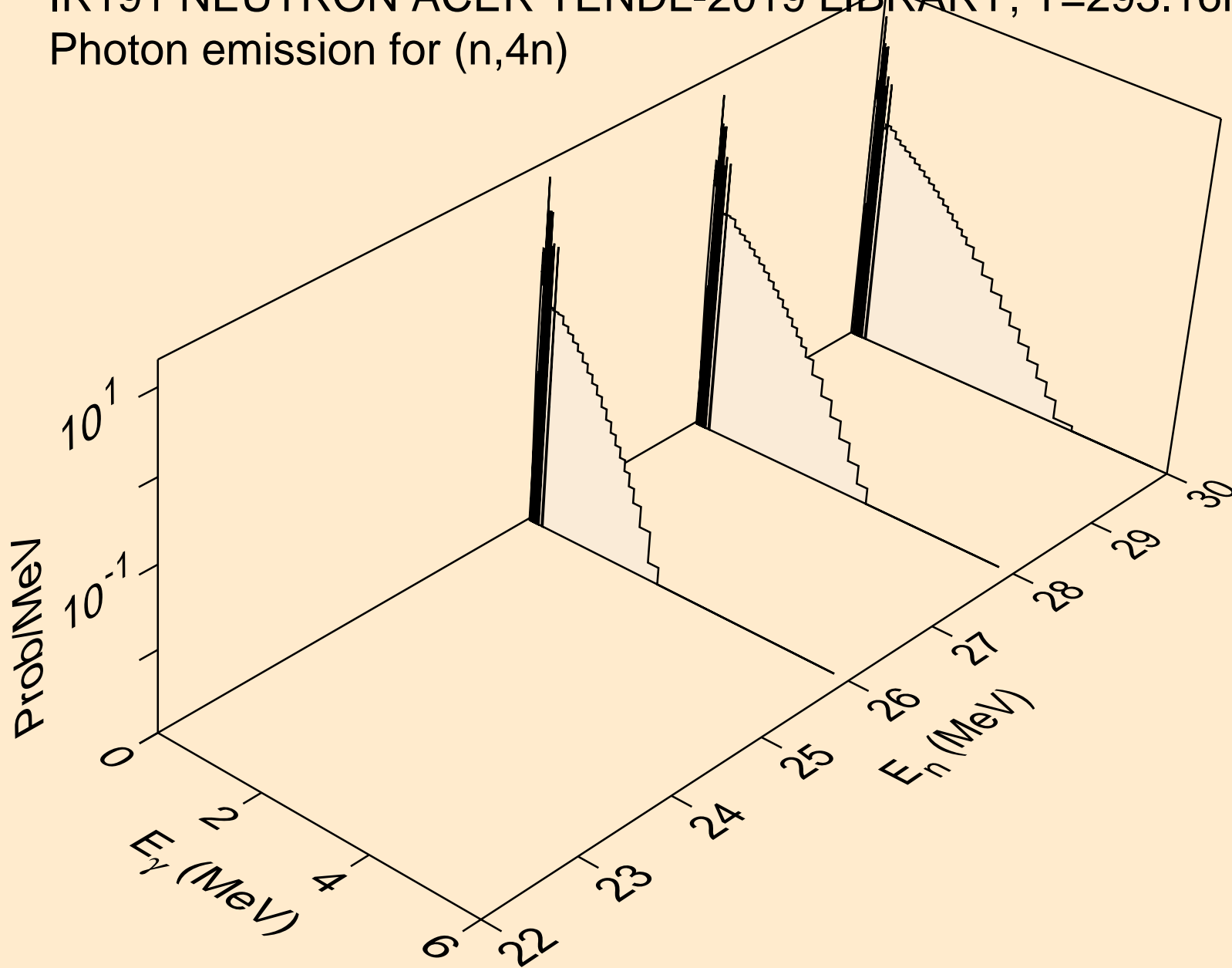
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Photon emission for (n,n\*)t



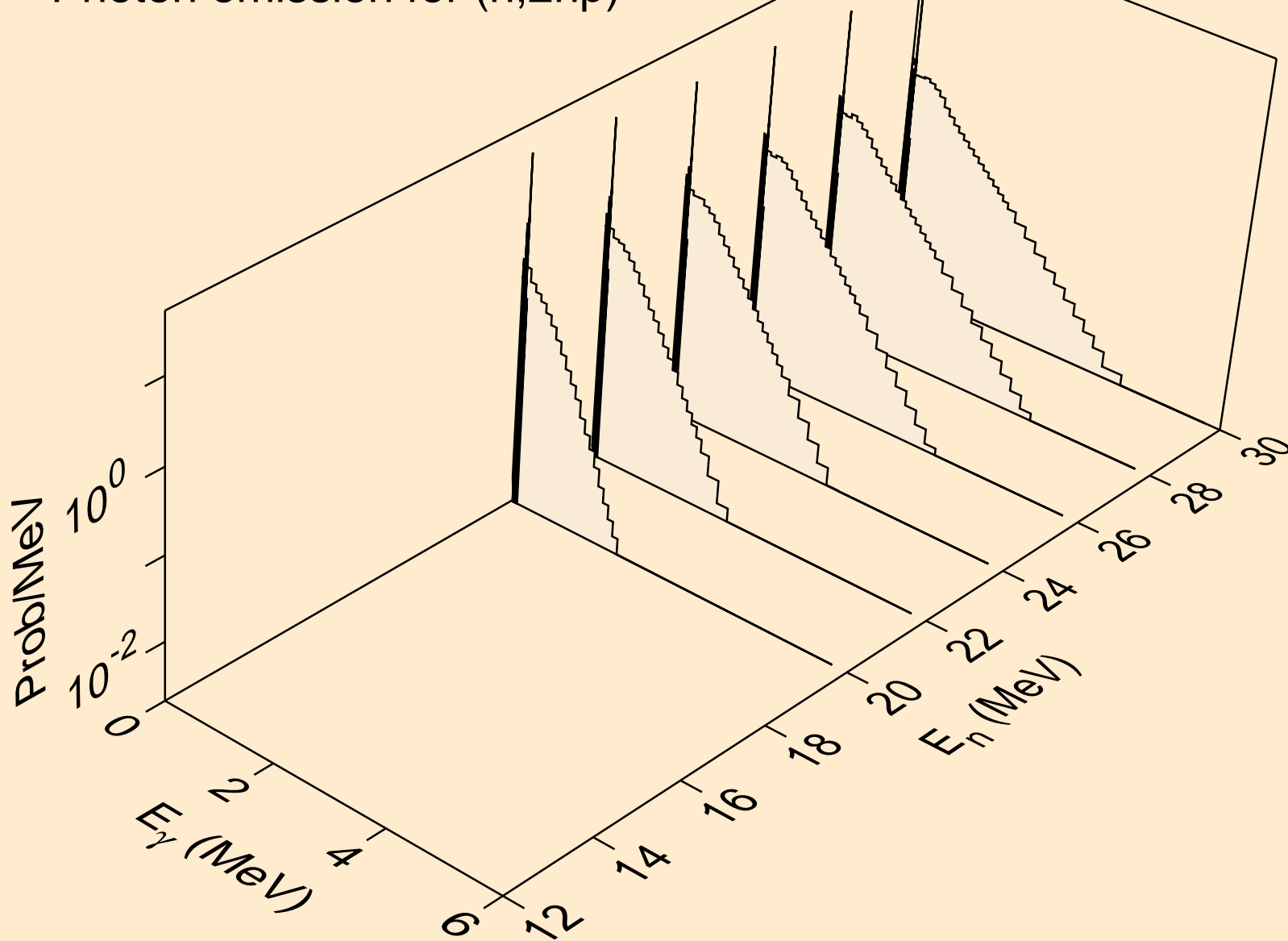
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Photon emission for (n,n\*)he3



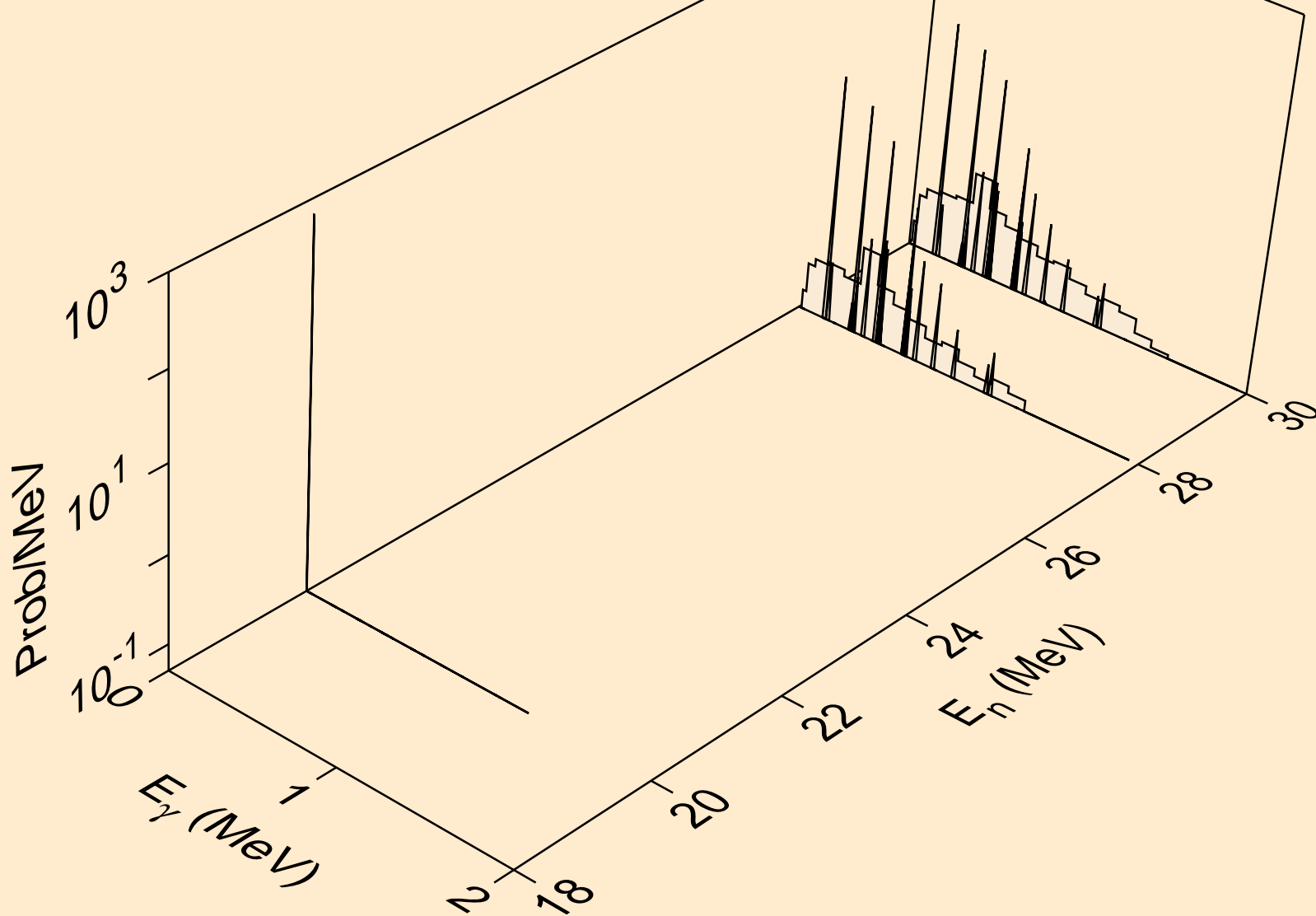
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Photon emission for (n,4n)



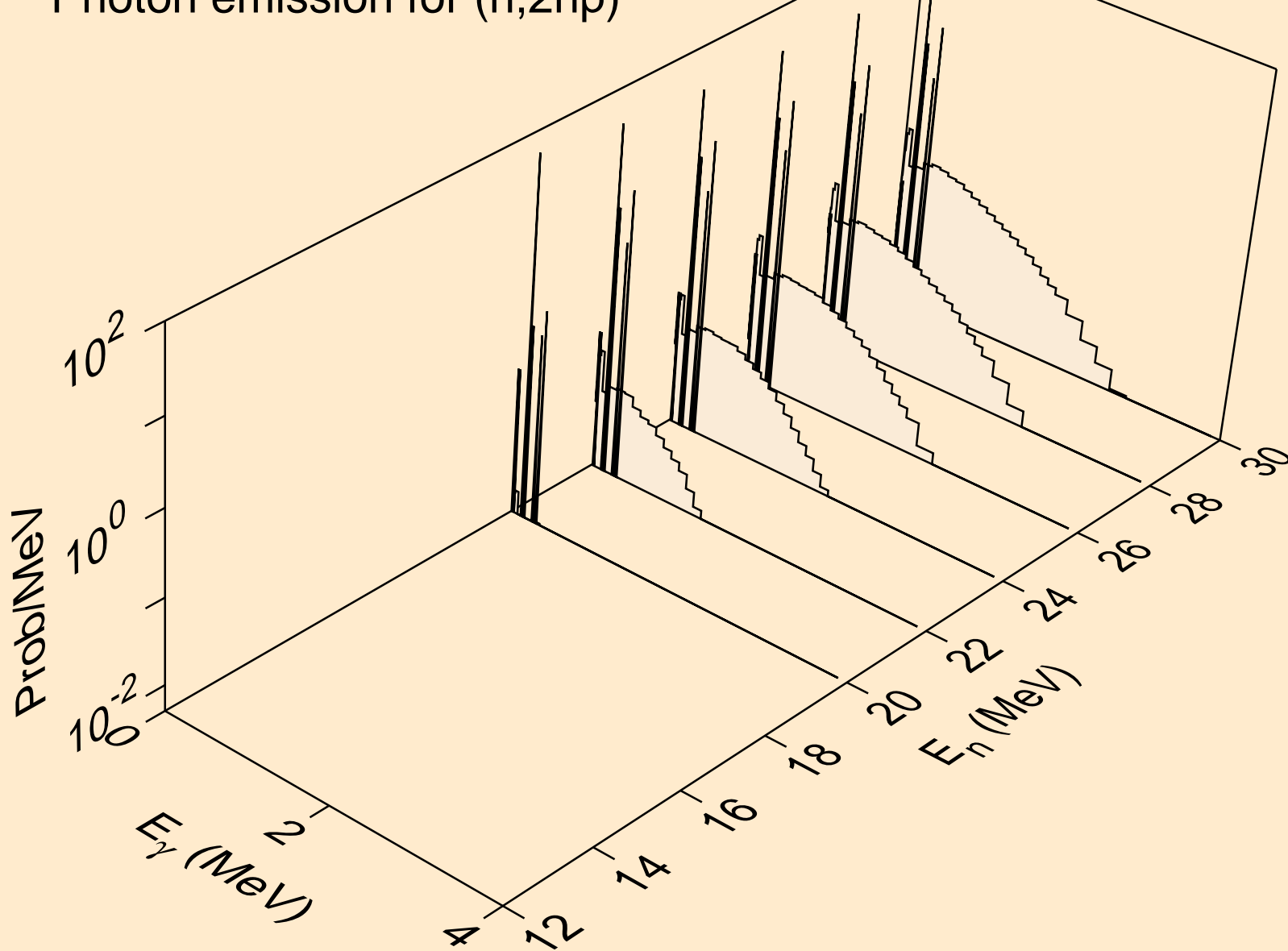
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Photon emission for (n,2np)



IR191 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,3np)

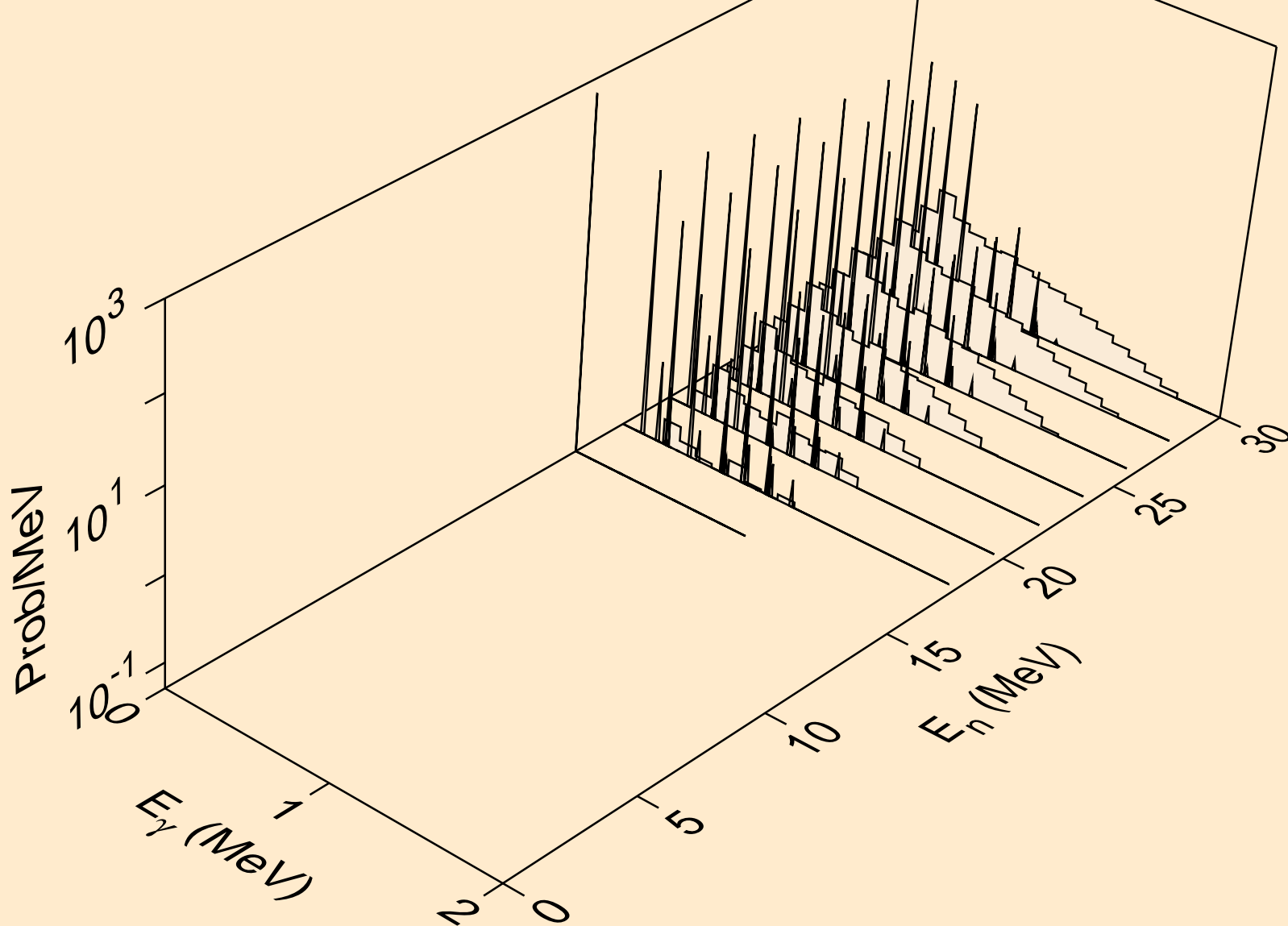


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Photon emission for (n,2np)

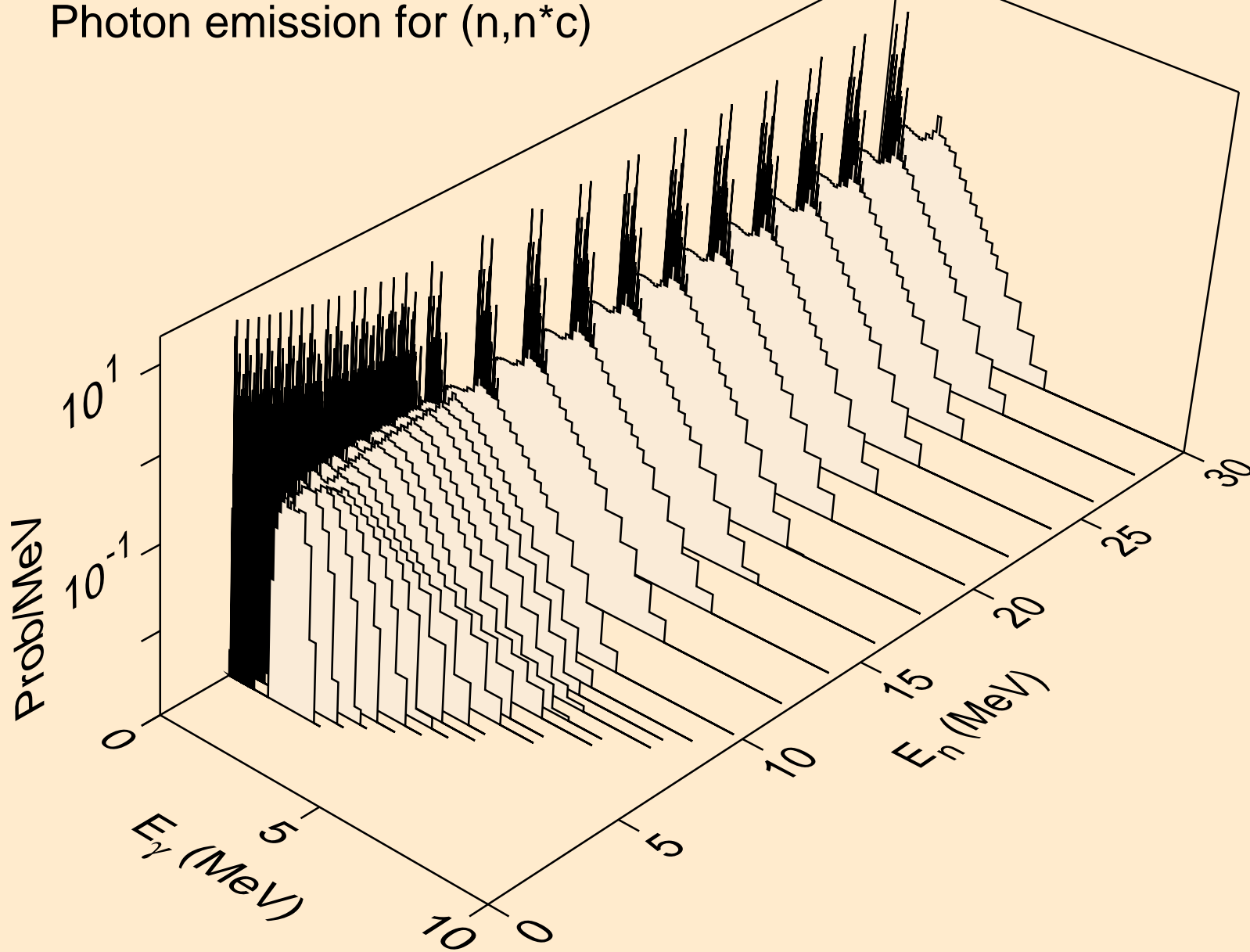




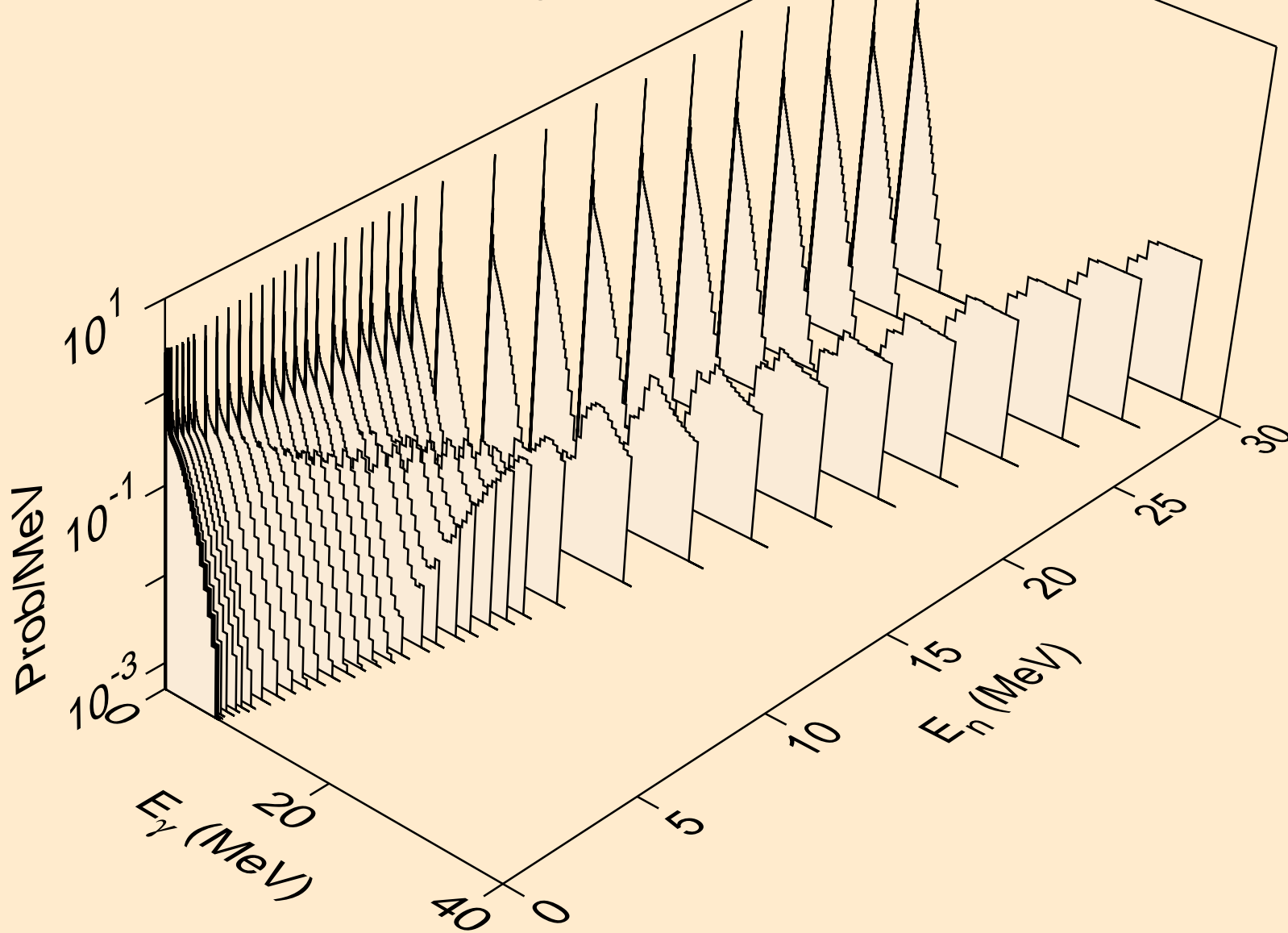
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Photon emission for (n,npa)



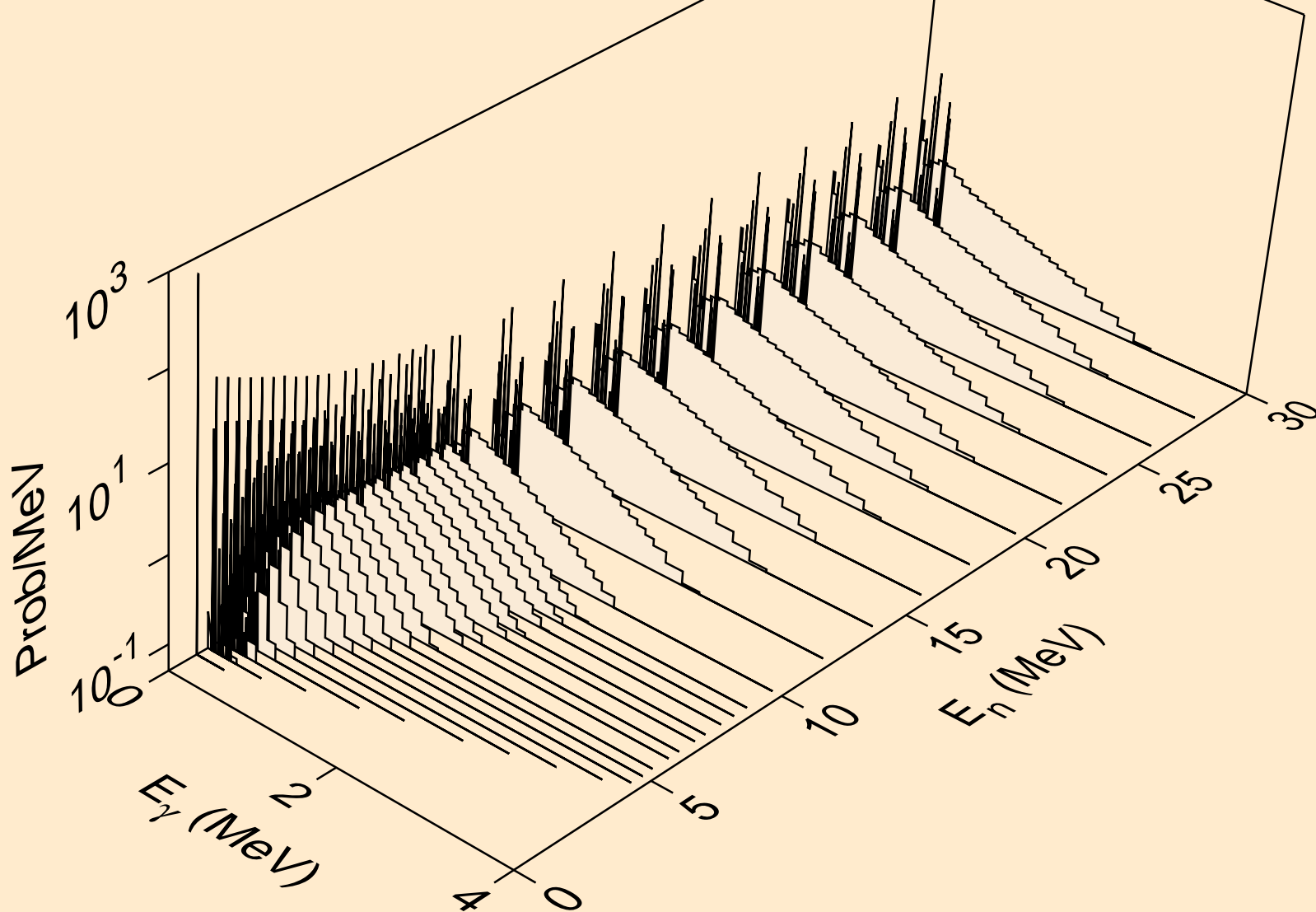
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Photon emission for (n,n\*c)



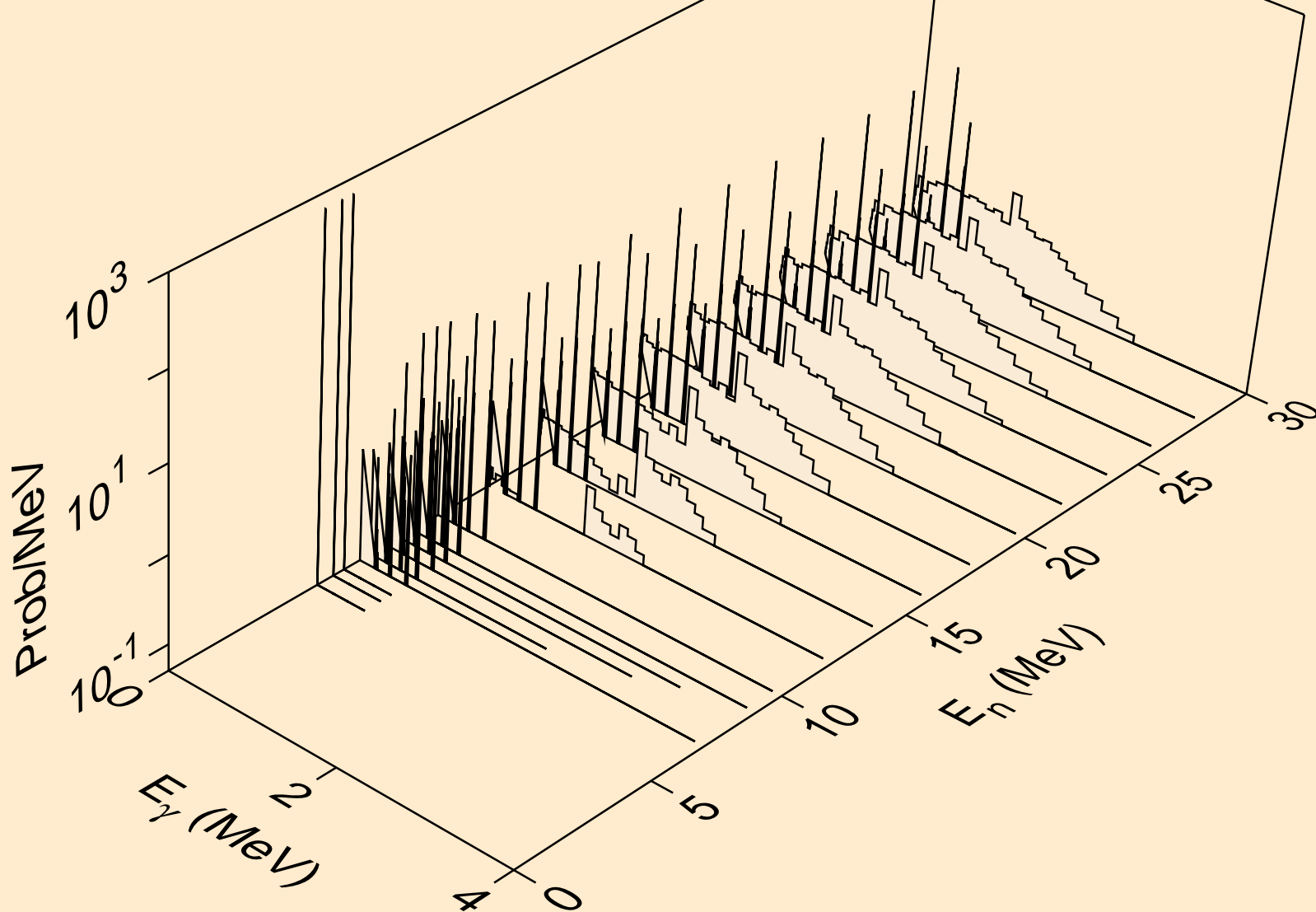
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Photon emission for (n,gma)



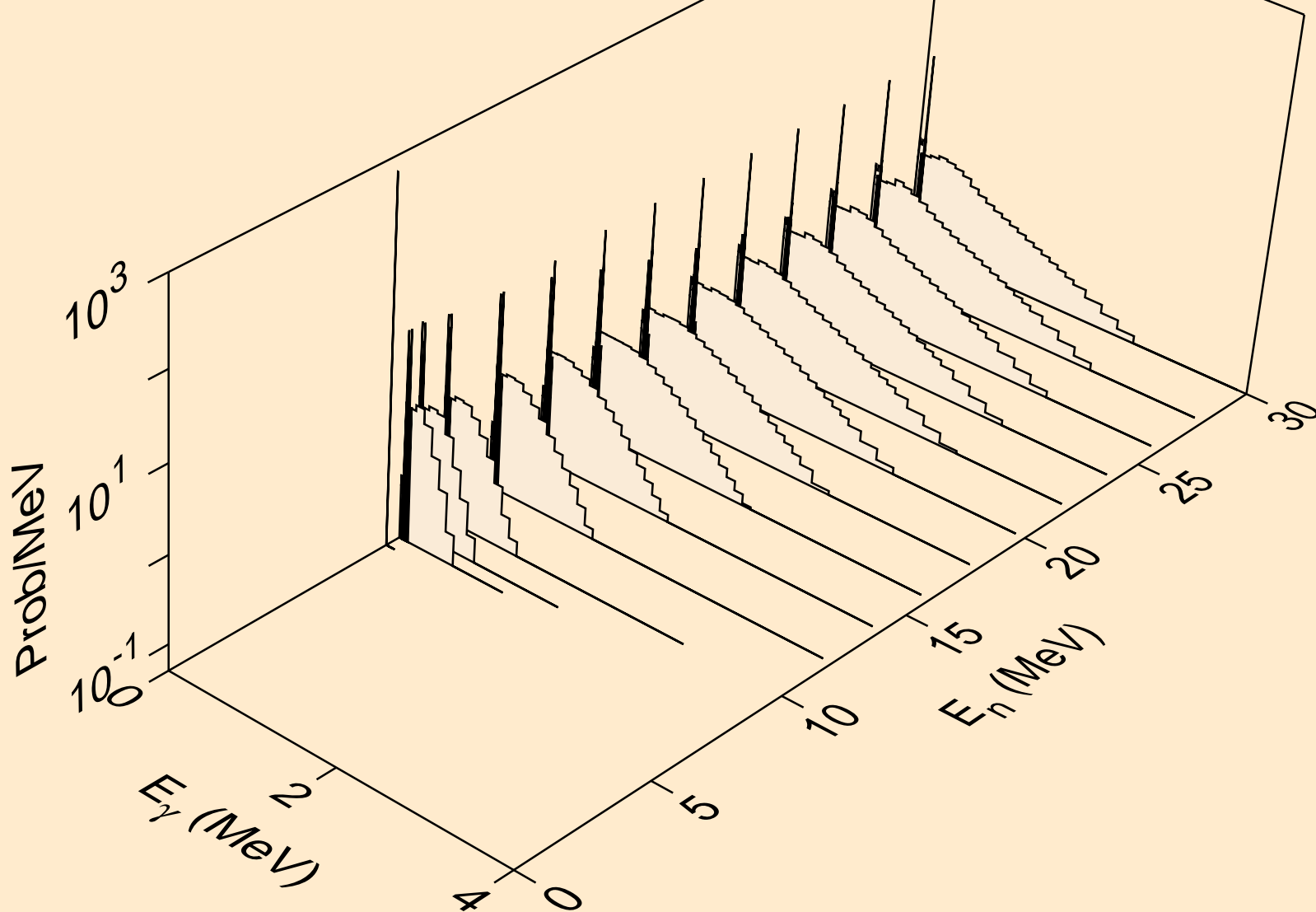
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Photon emission for (n,p)



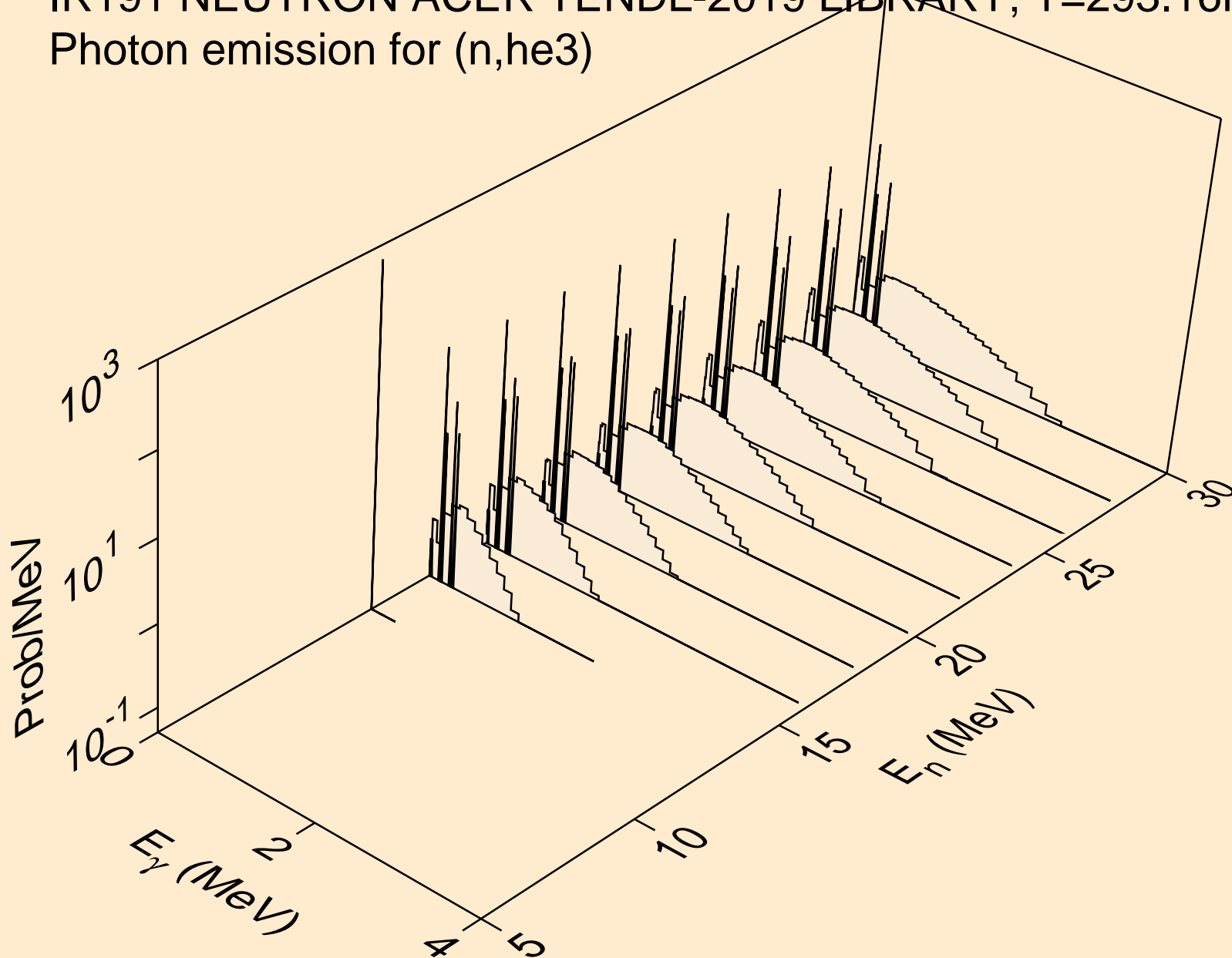
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Photon emission for (n,d)



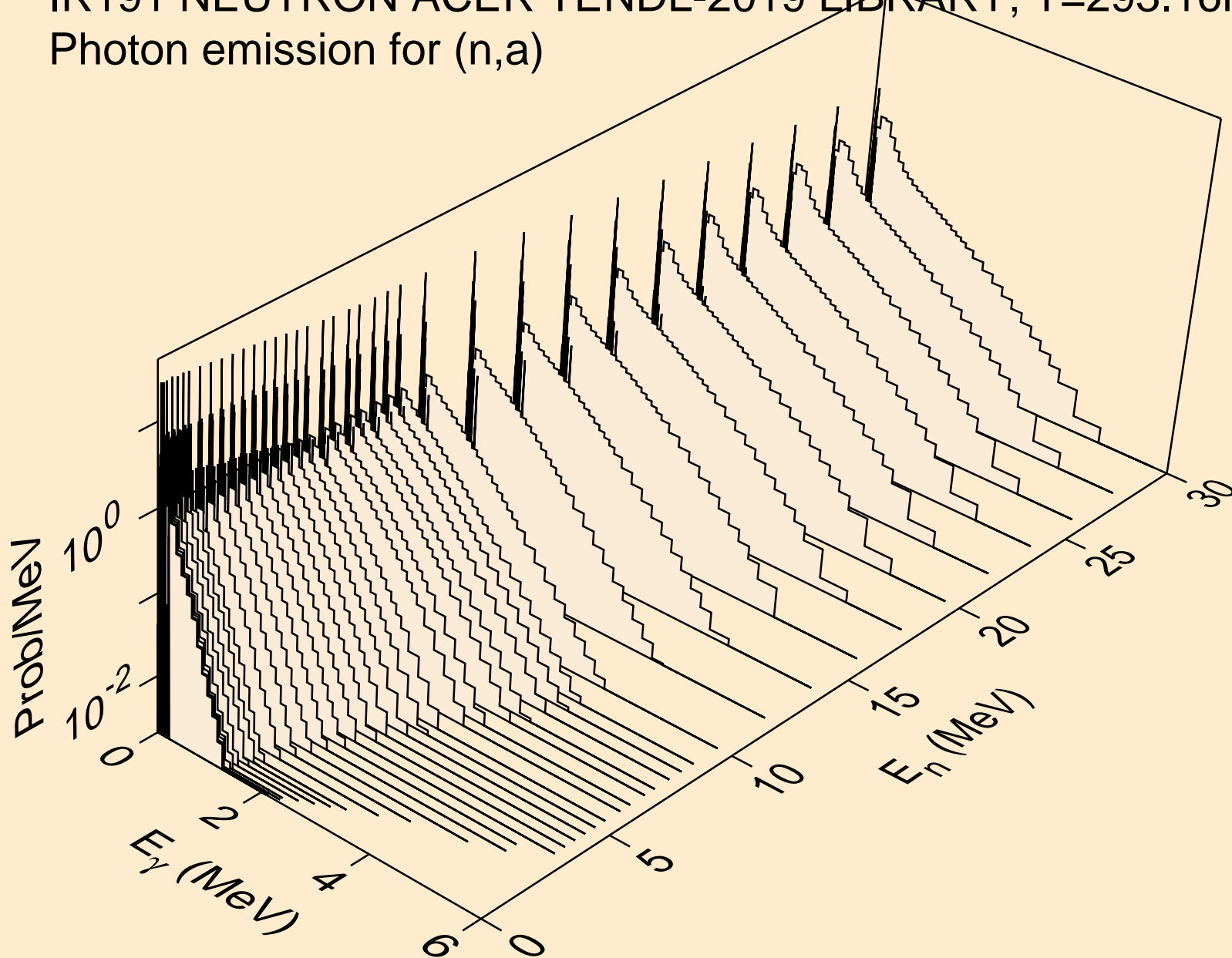
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Photon emission for (n,t)



IR191 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,he3)

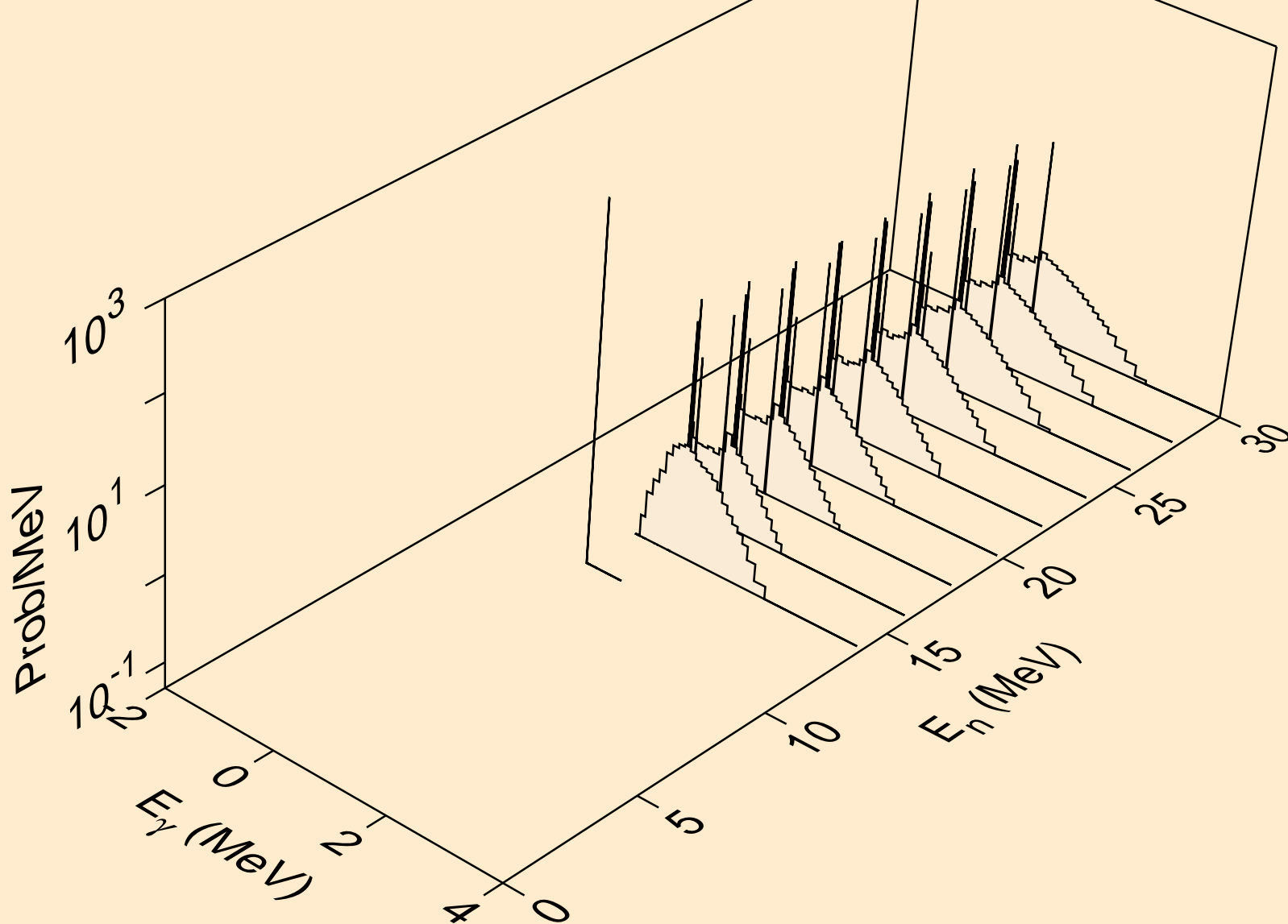


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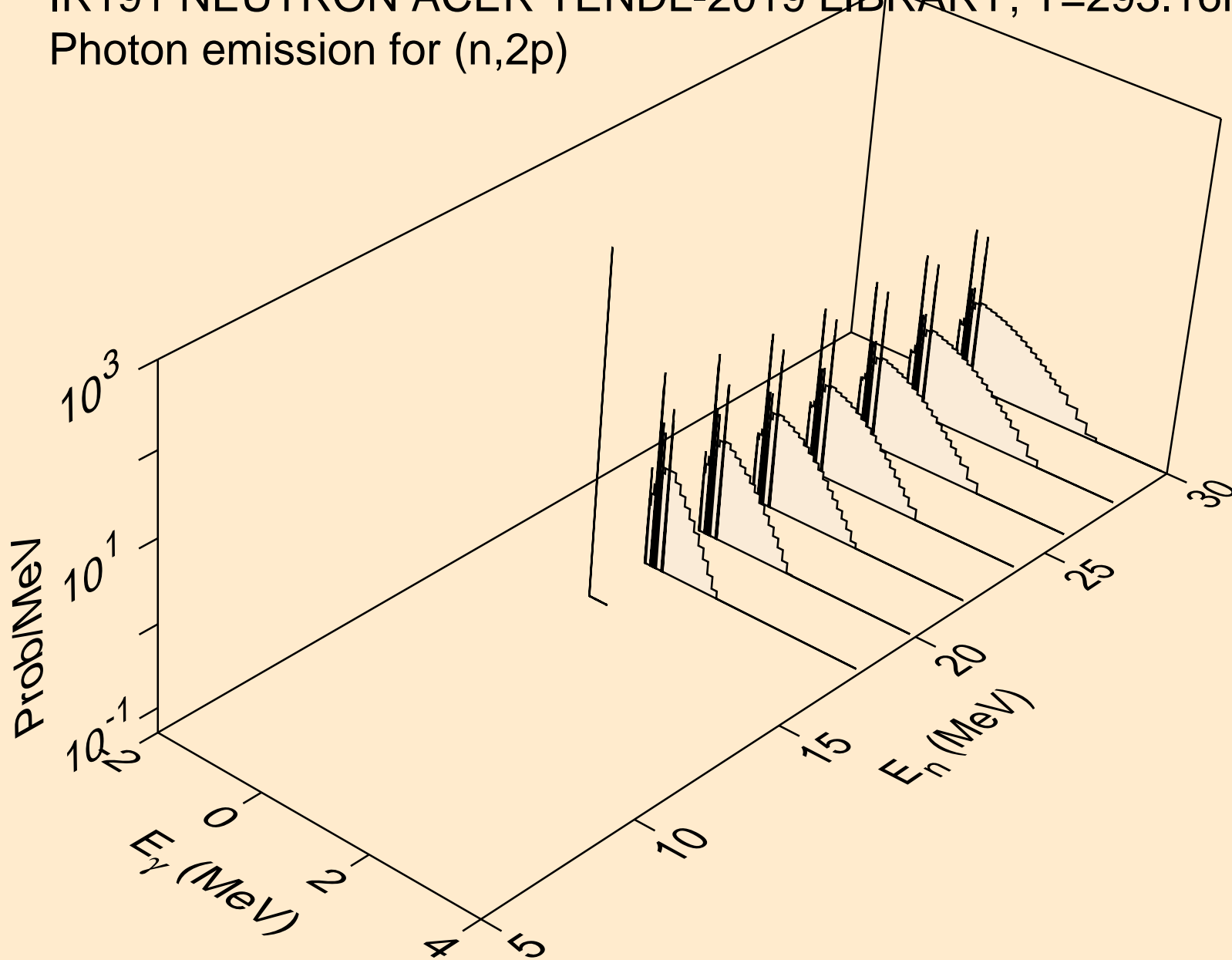




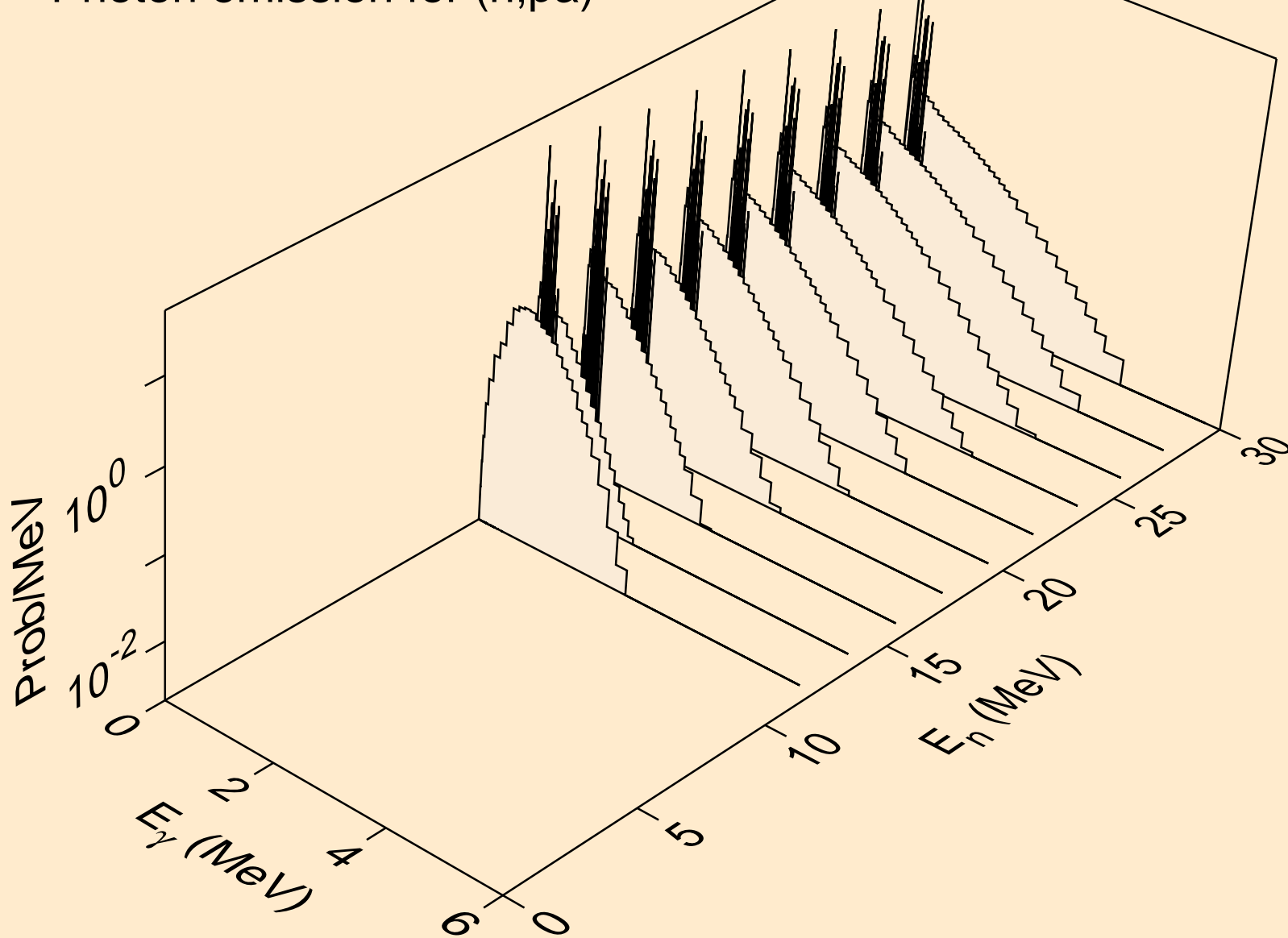
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Photon emission for (n,2a)



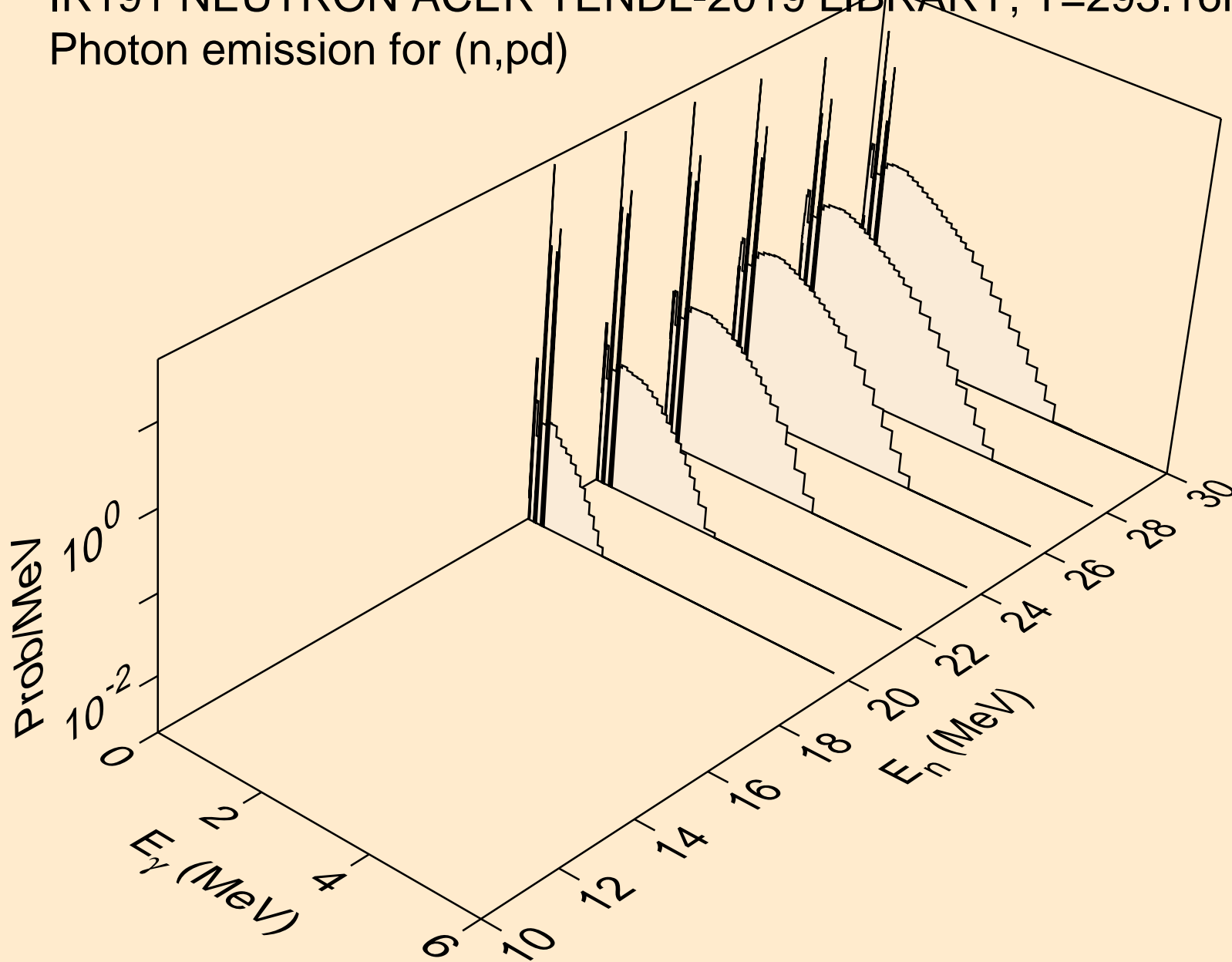
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Photon emission for (n,2p)



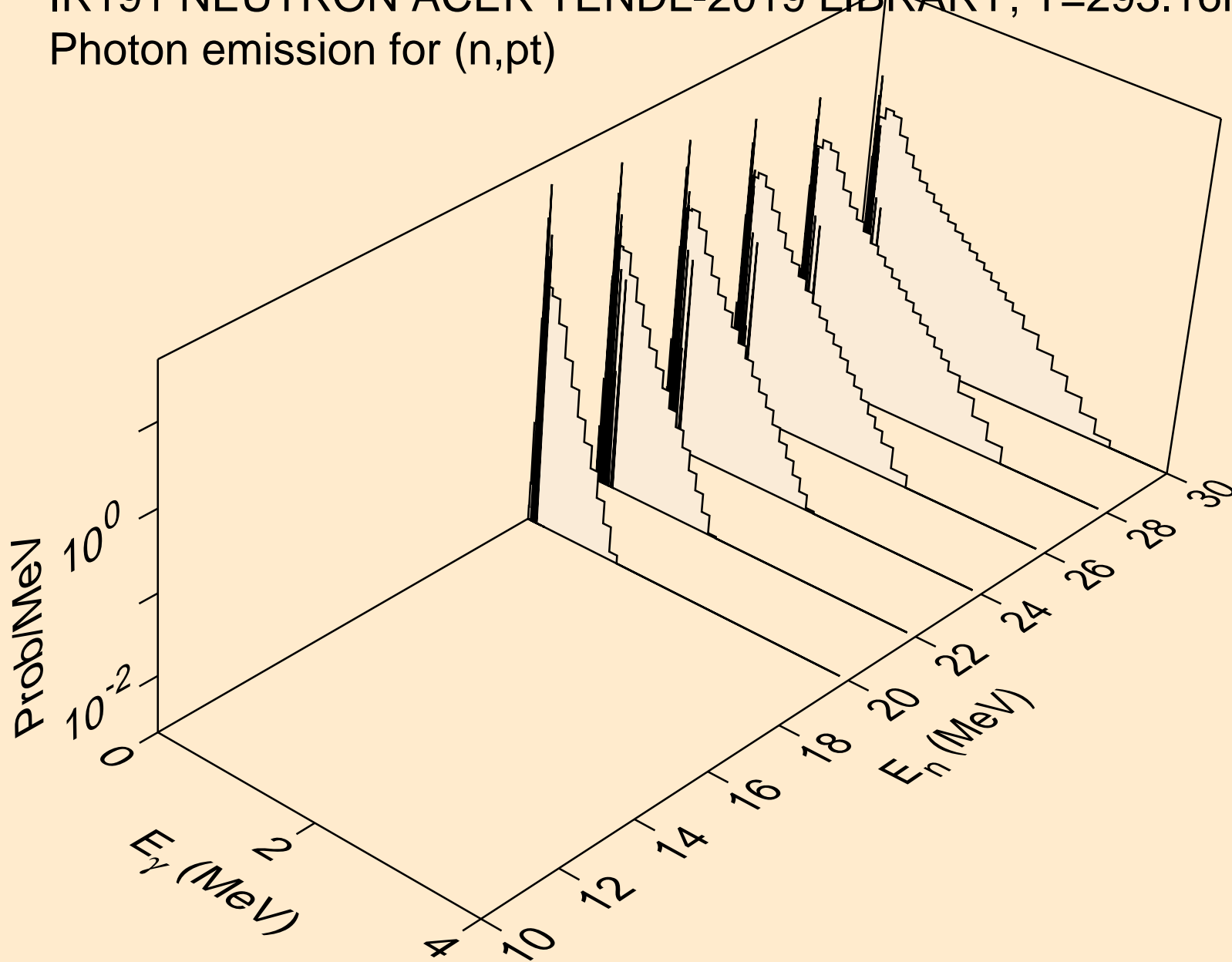
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Photon emission for (n,p $\alpha$ )



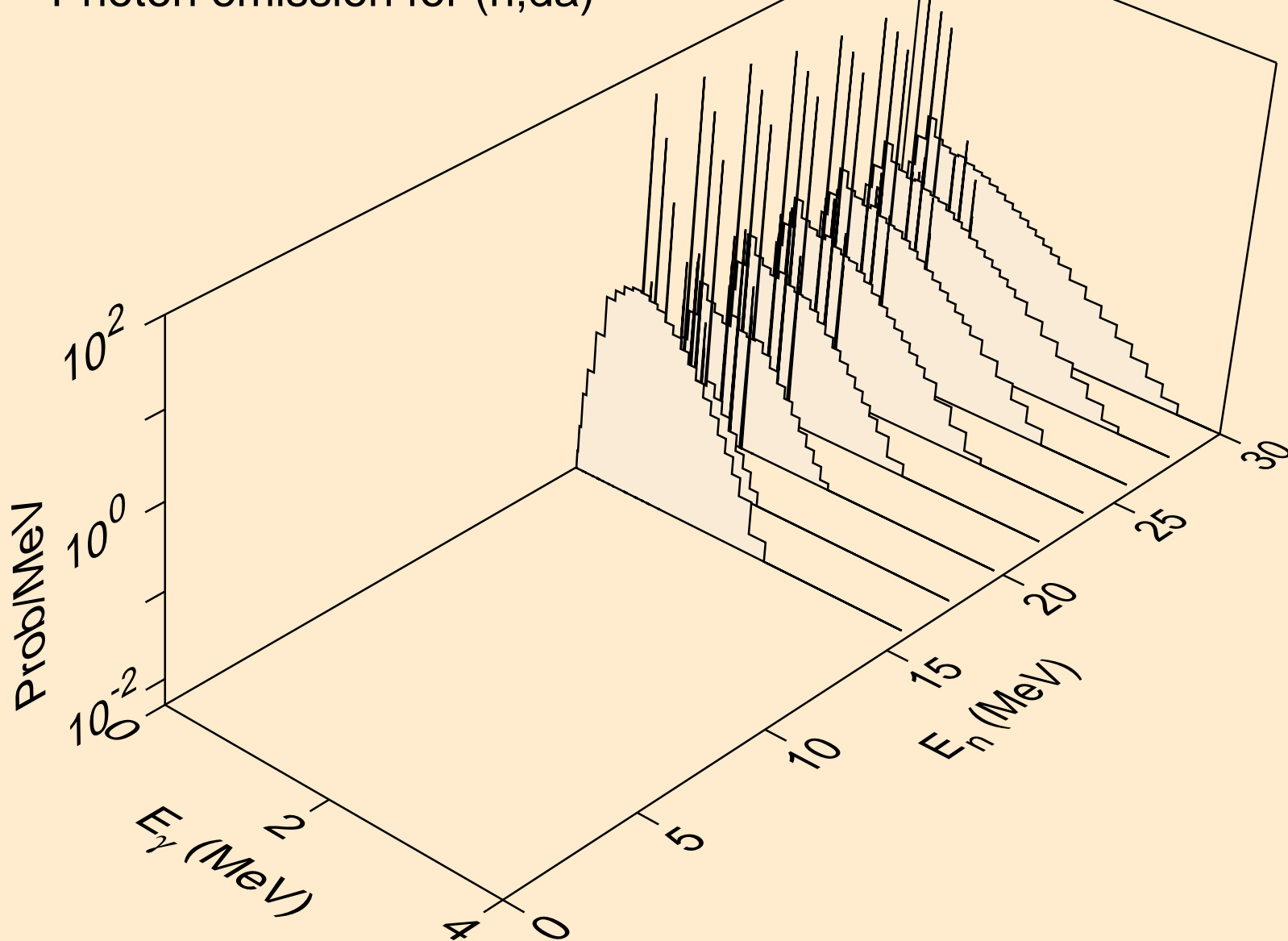
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Photon emission for (n,pd)



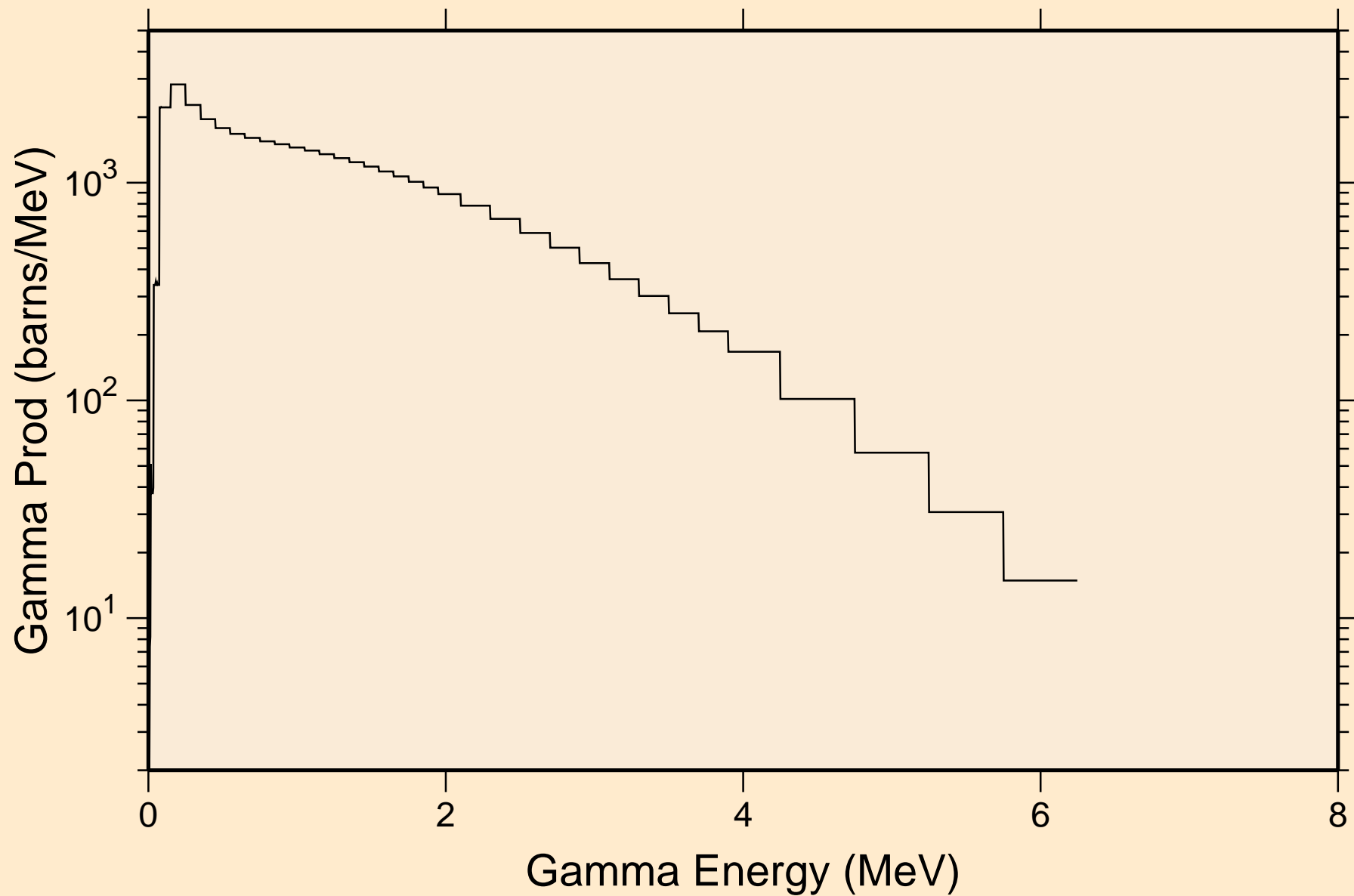
IR191 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,pt)



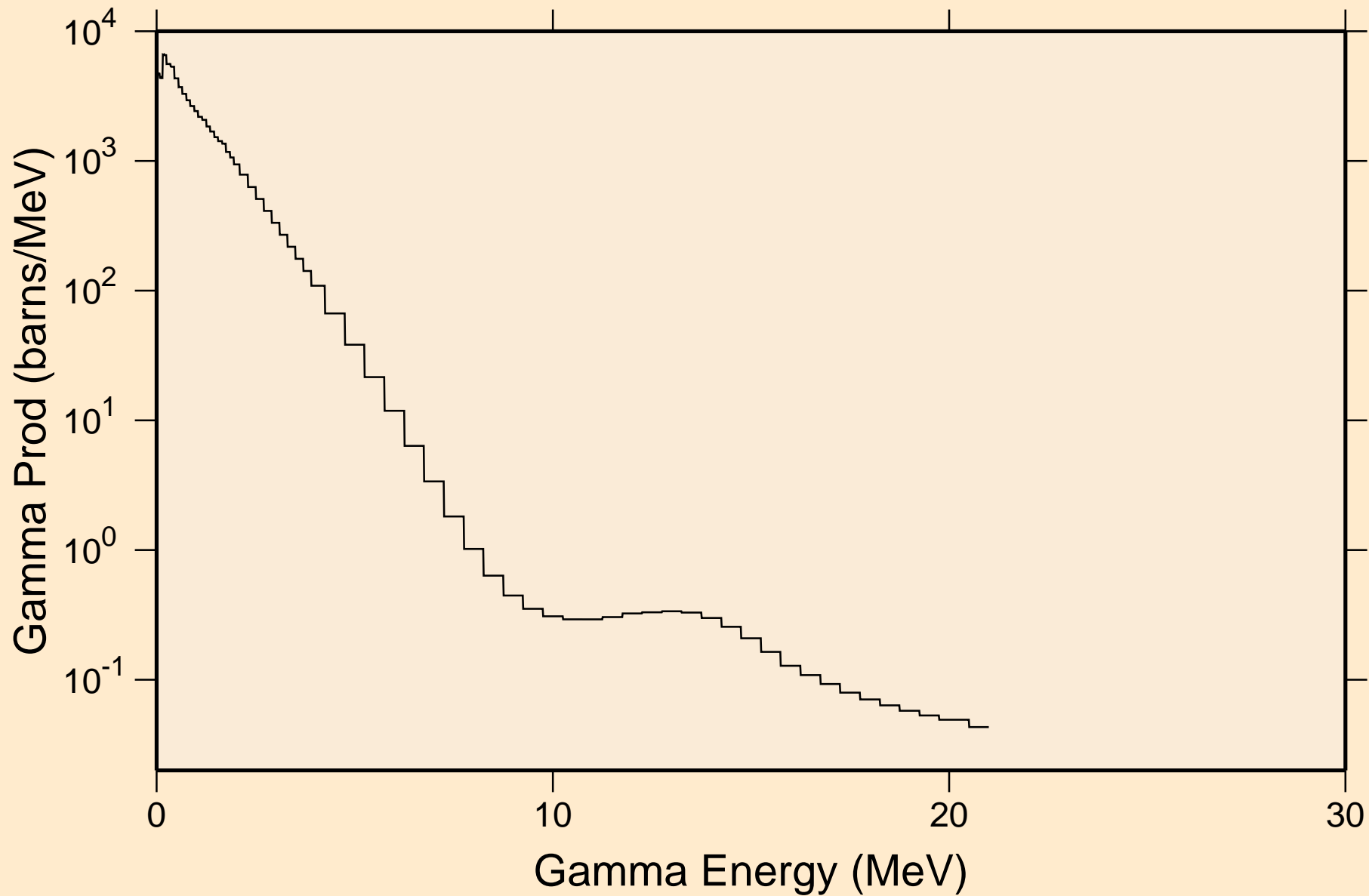
IR191 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,da)



IR191 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
thermal capture photon spectrum

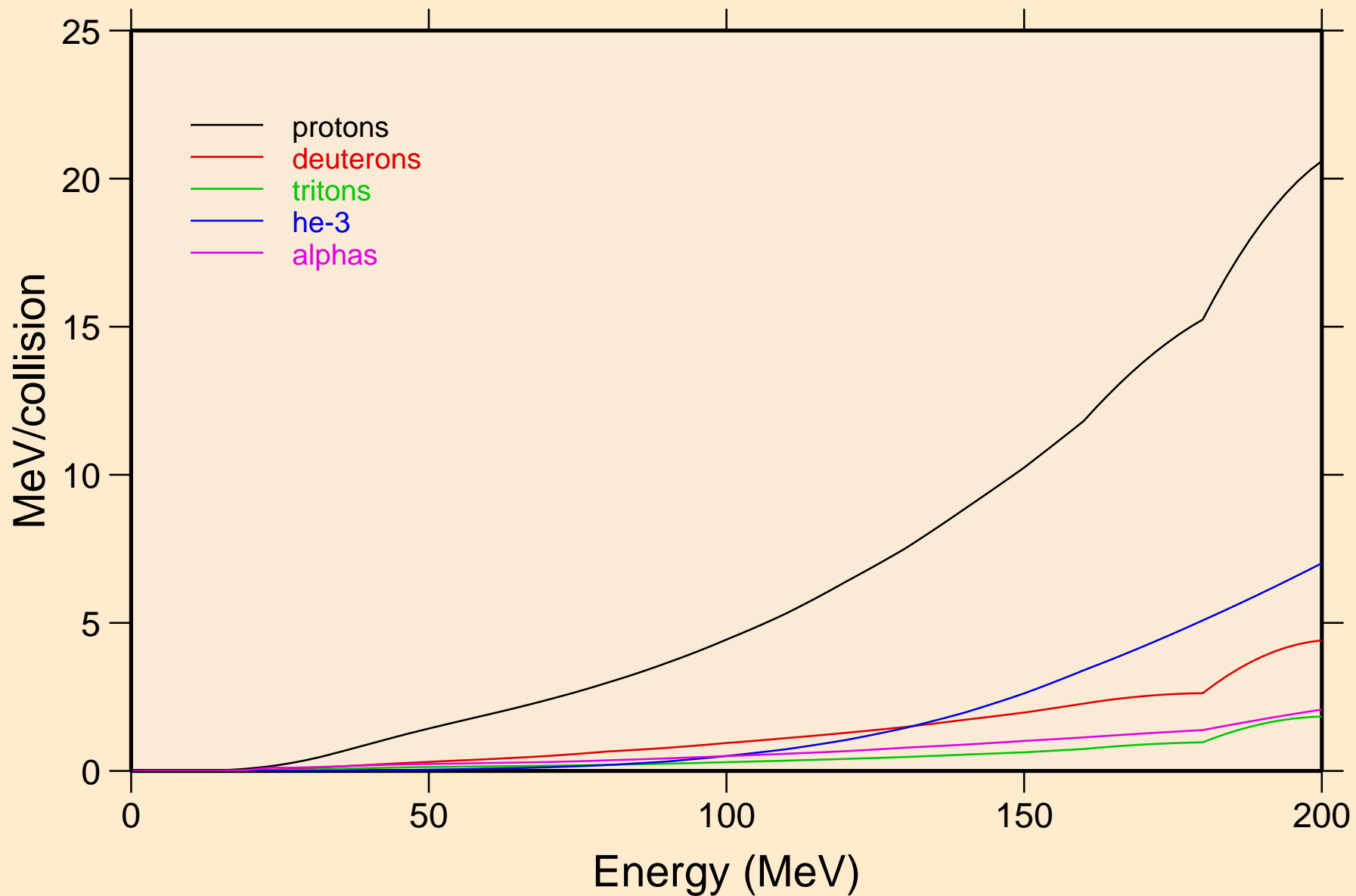


IR191 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
14 MeV photon spectrum

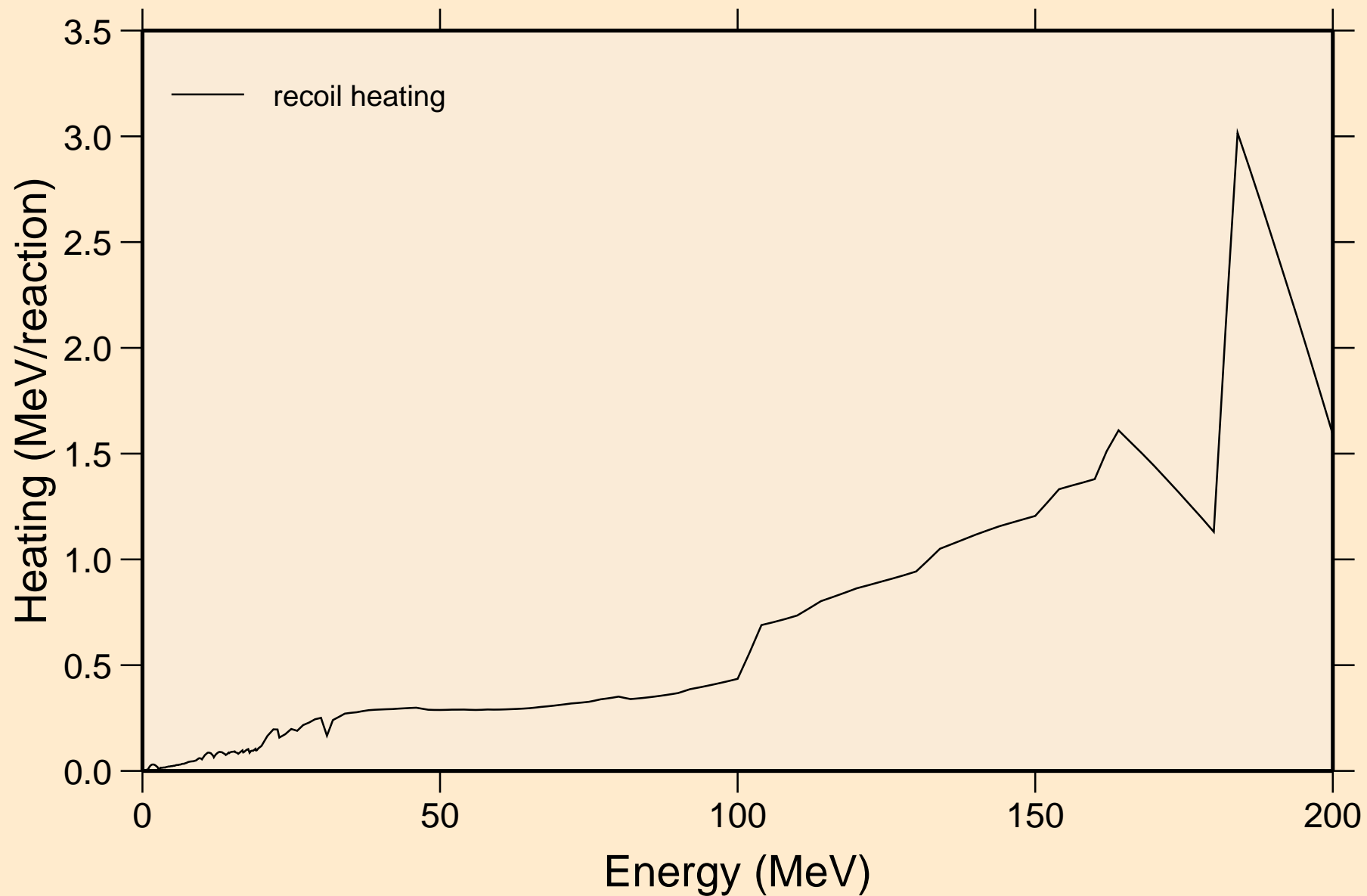




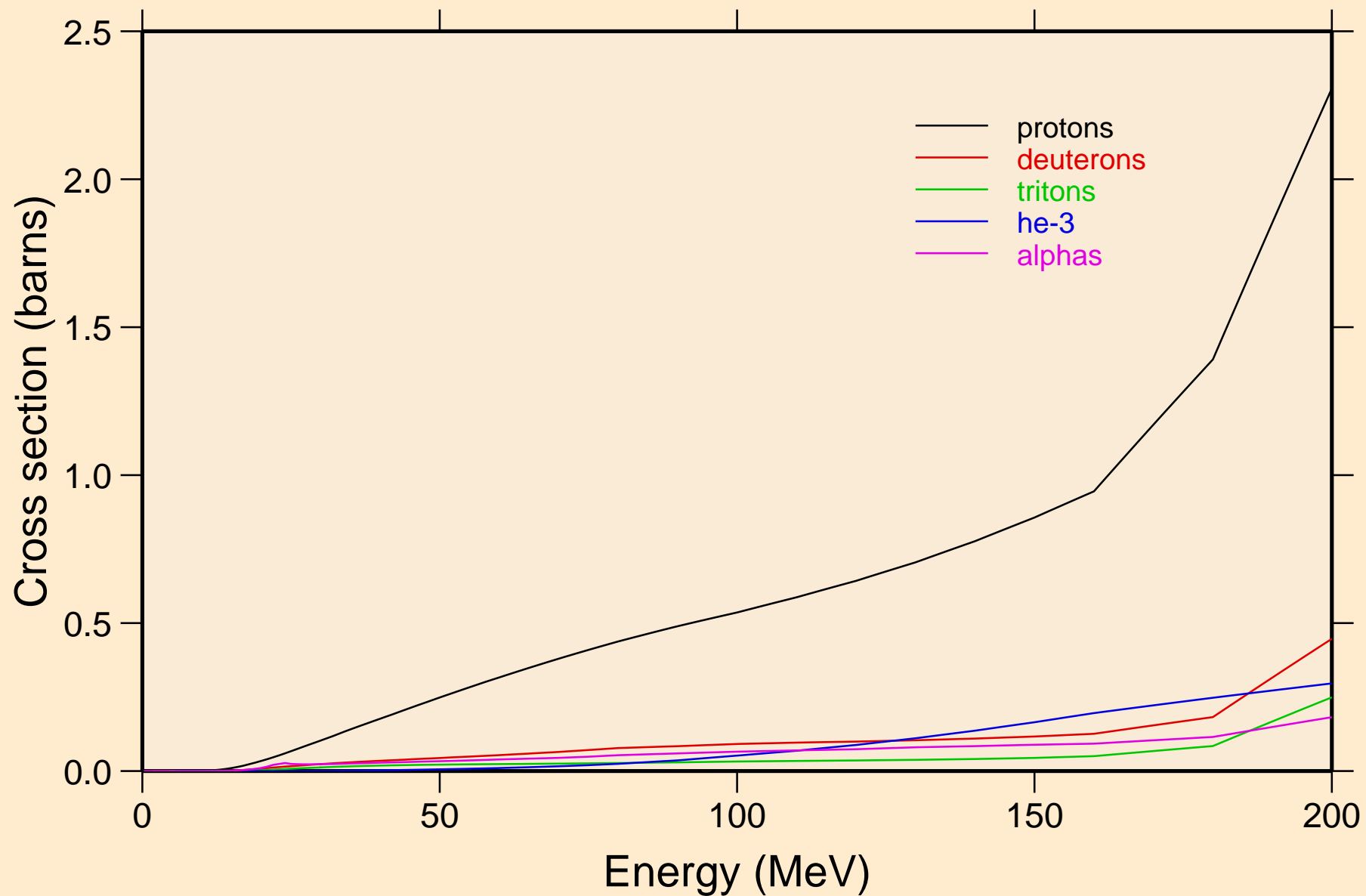
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Particle heating contributions



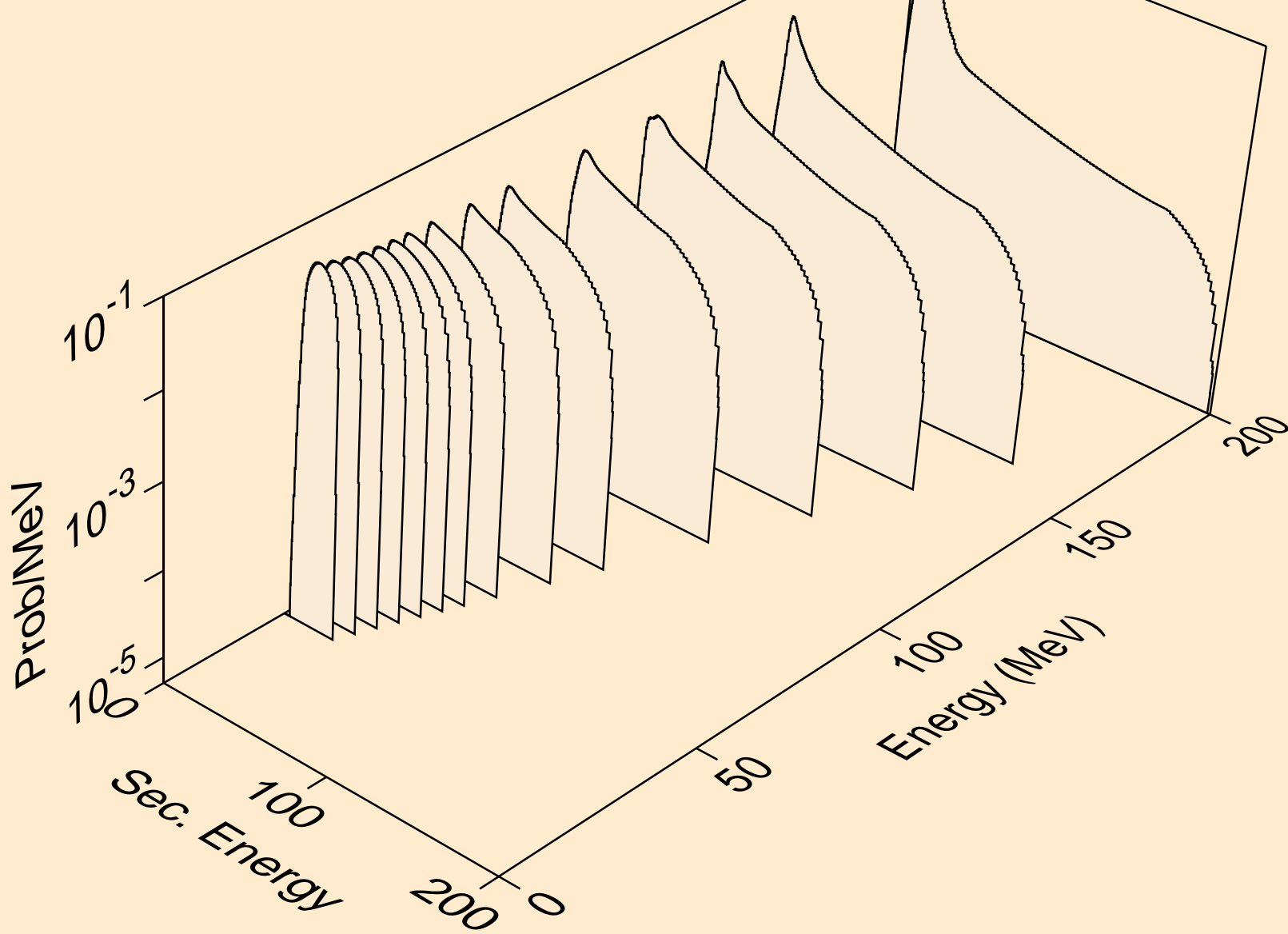
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Recoil Heating



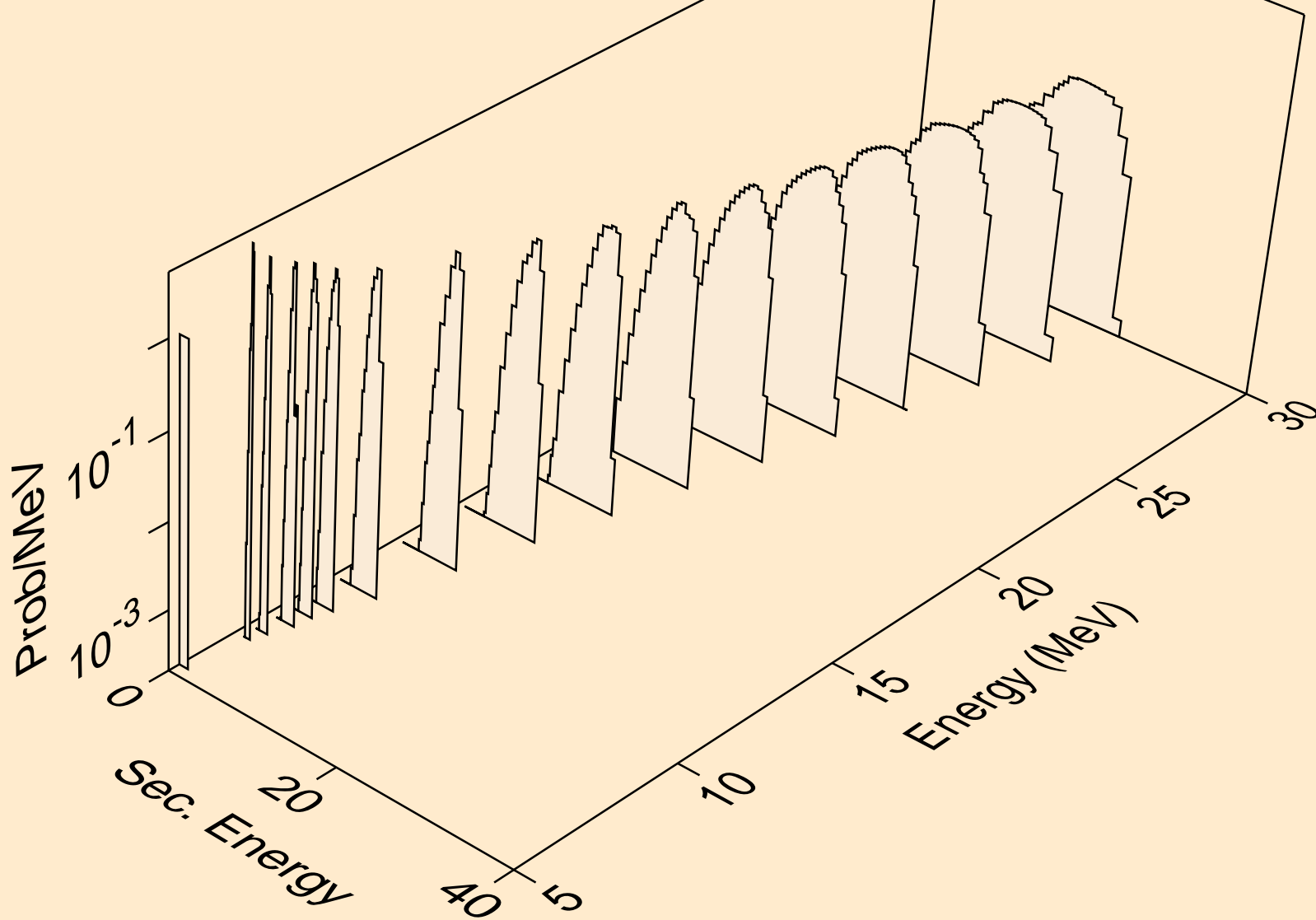
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Particle production cross sections



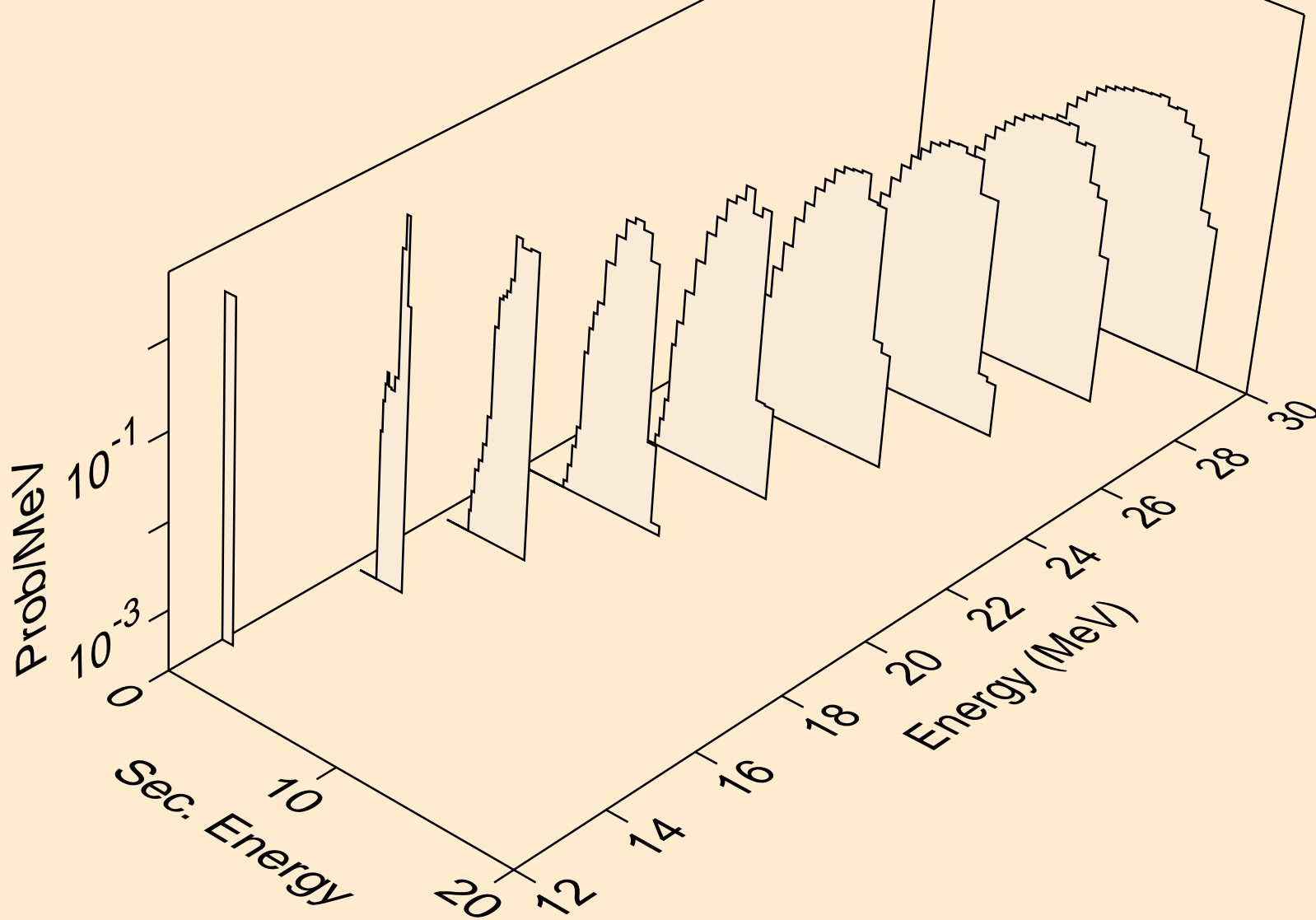
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protons from (n,x)



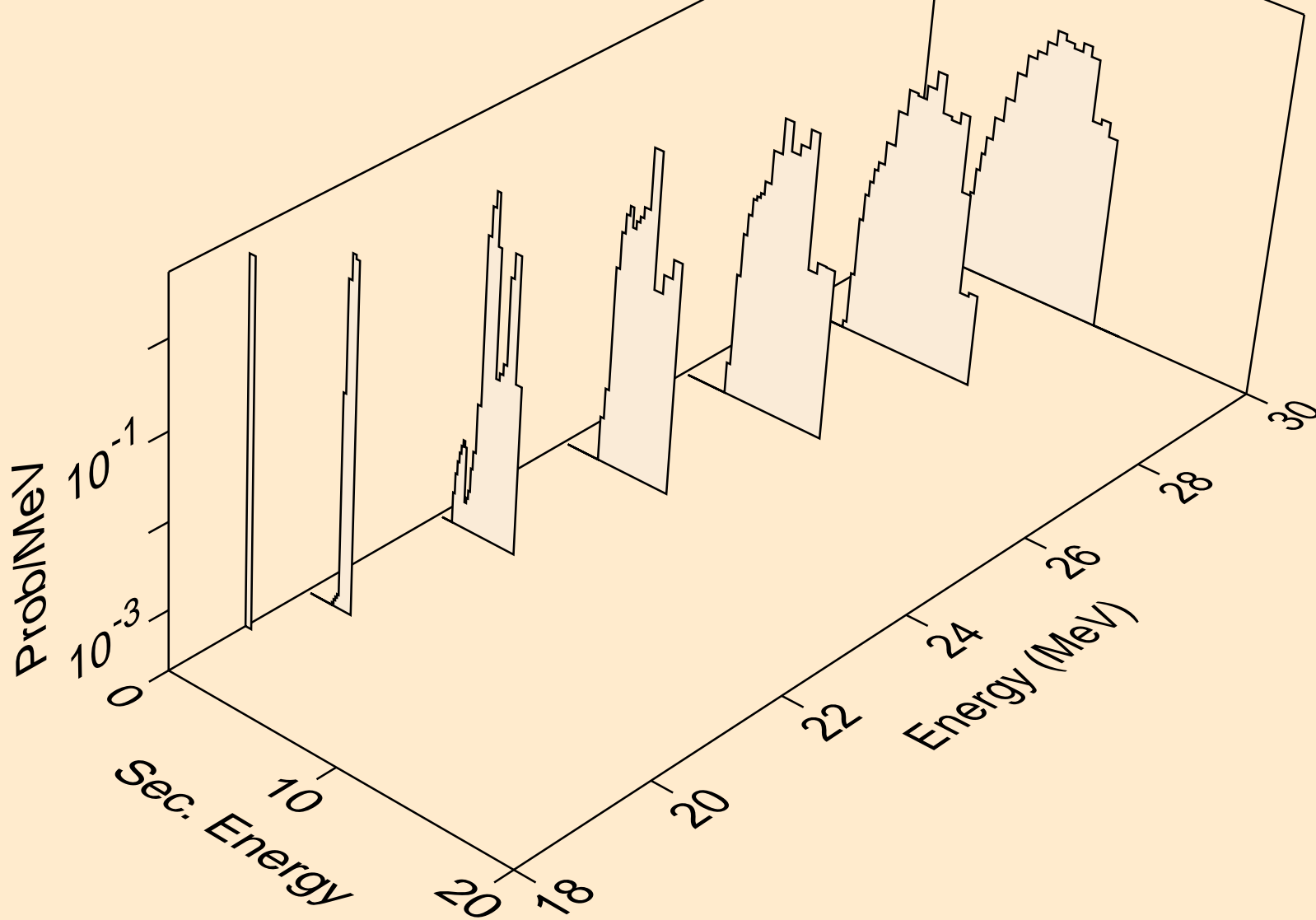
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protons from (n,n\*)p



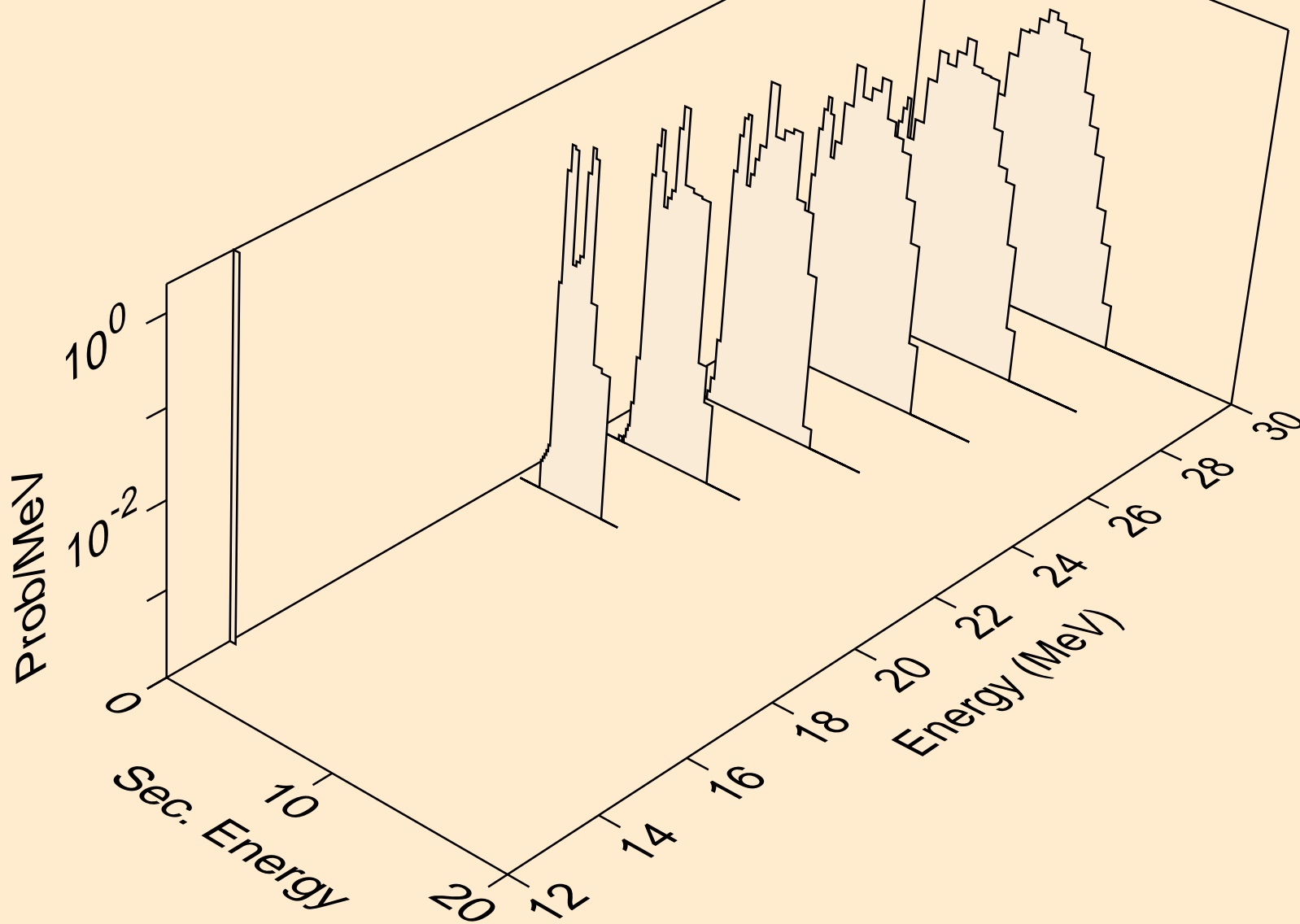
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protons from (n,2np)



IR191 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
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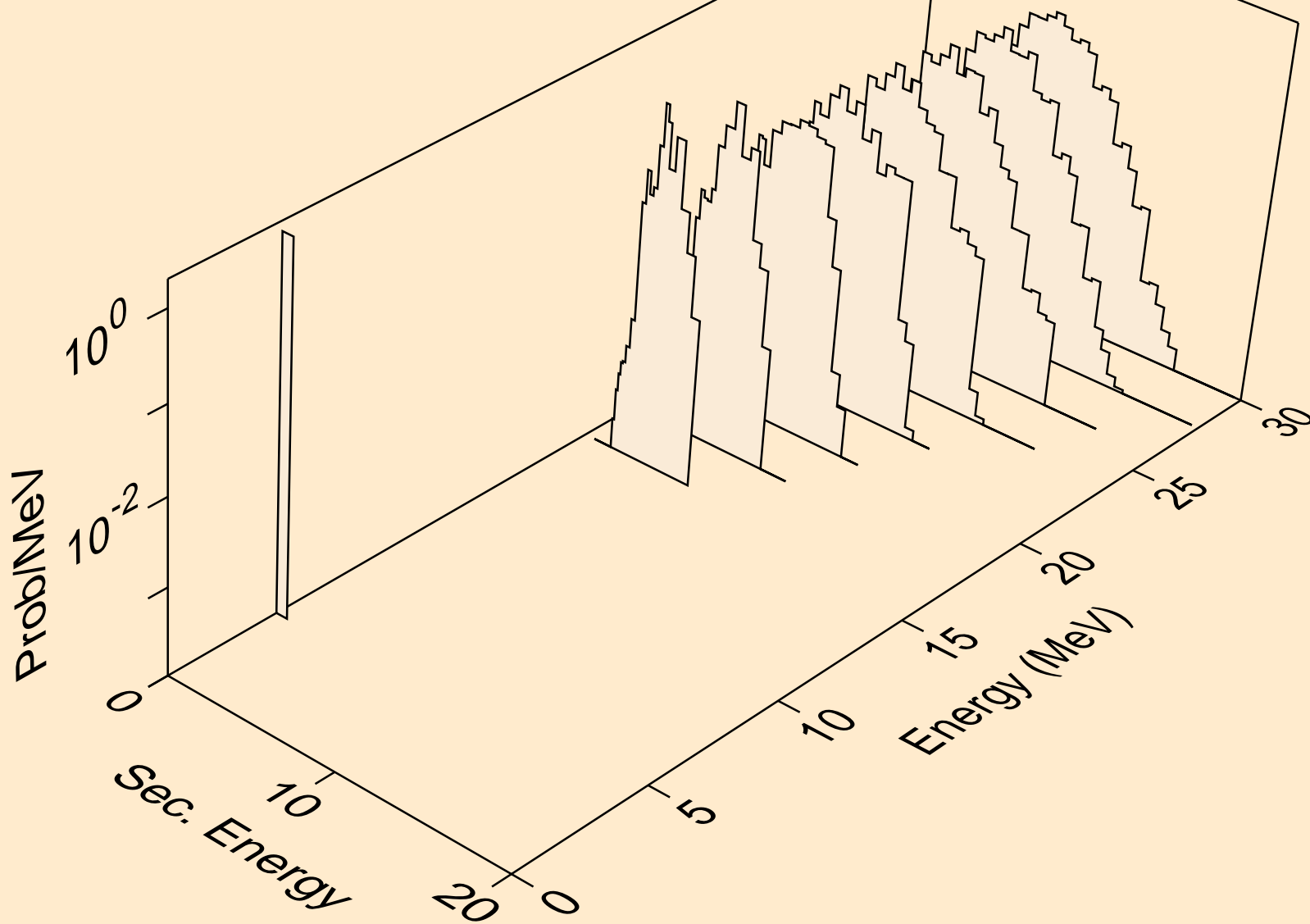


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protons from (n,2np)

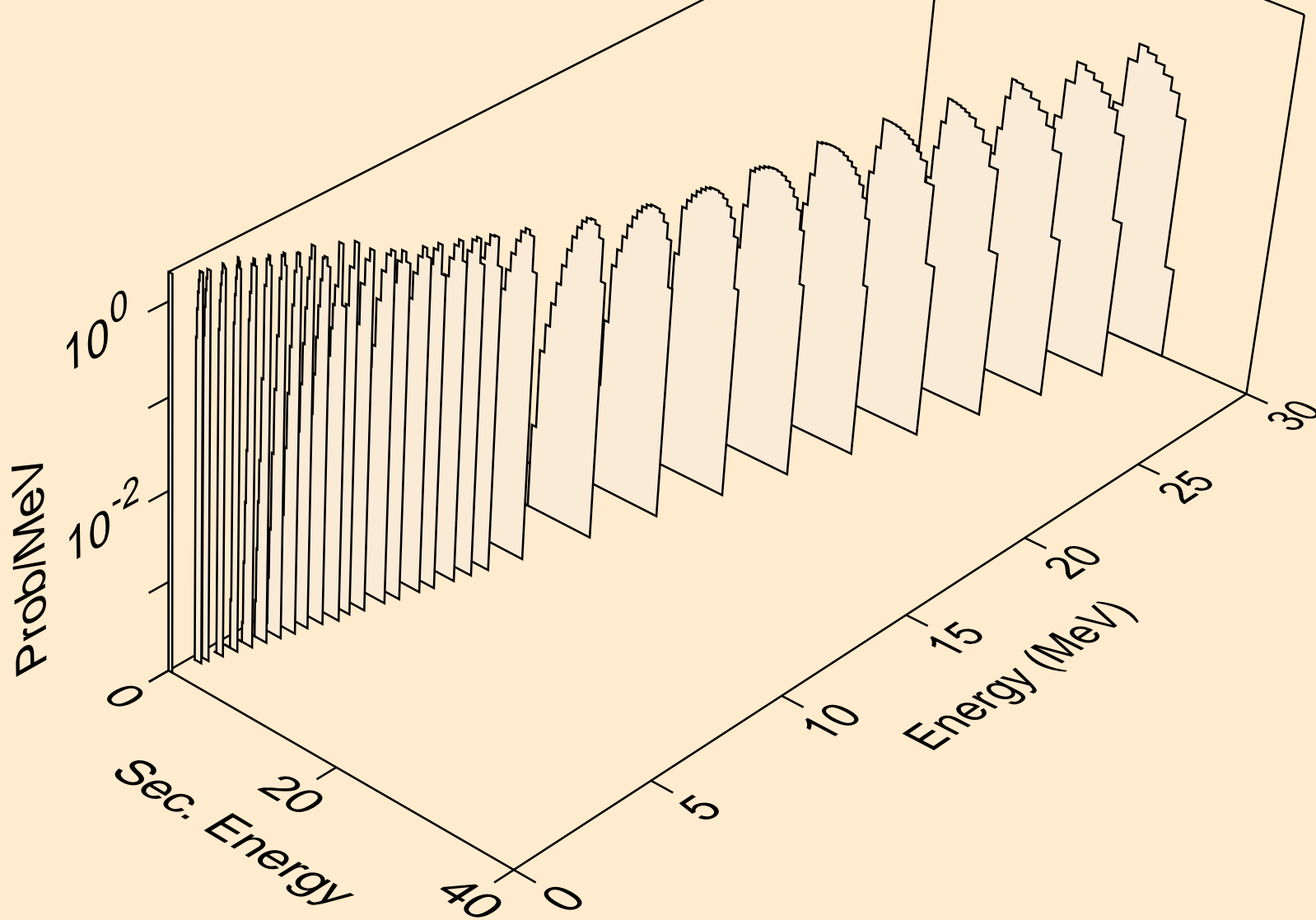




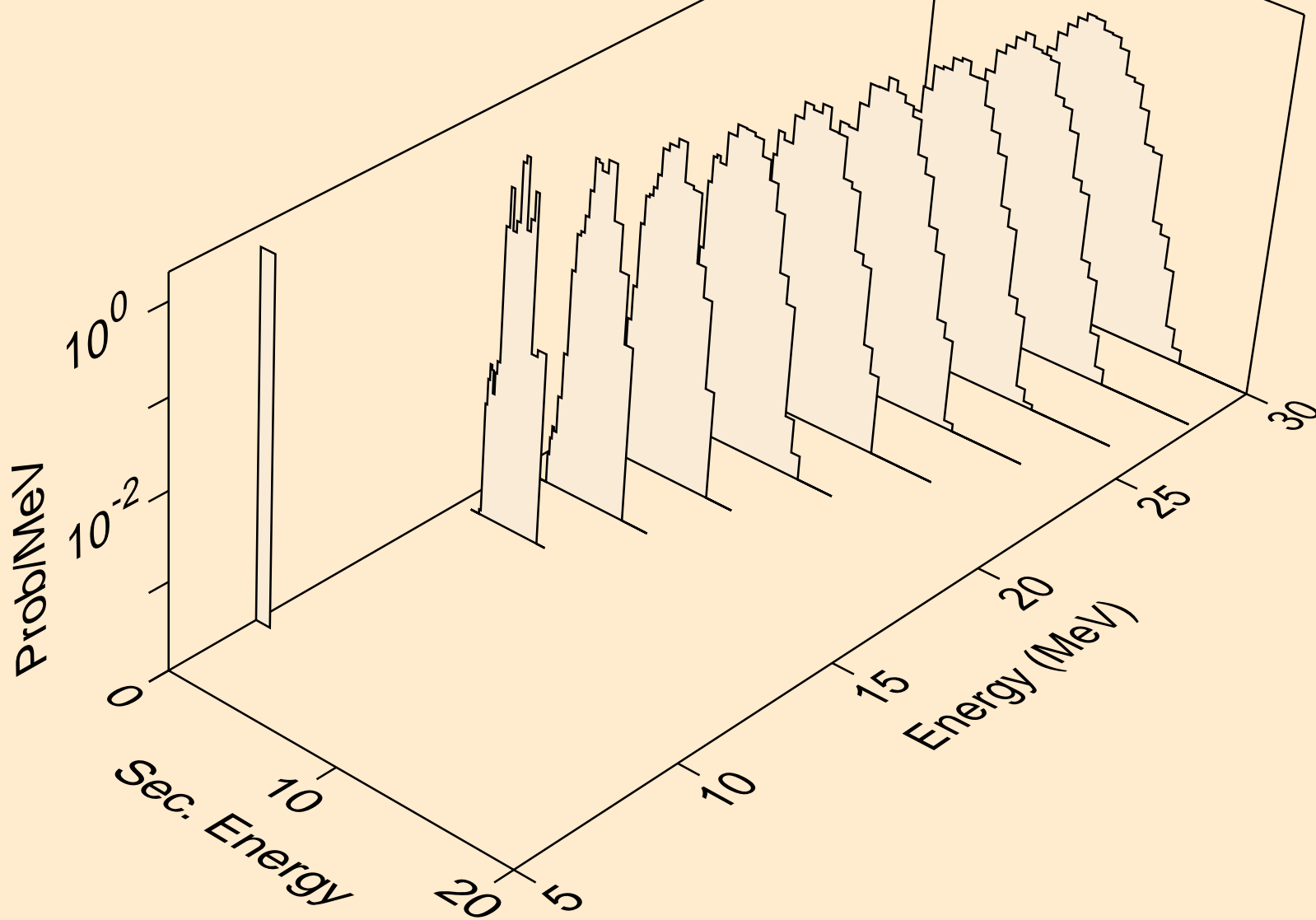
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protons from (n,npa)



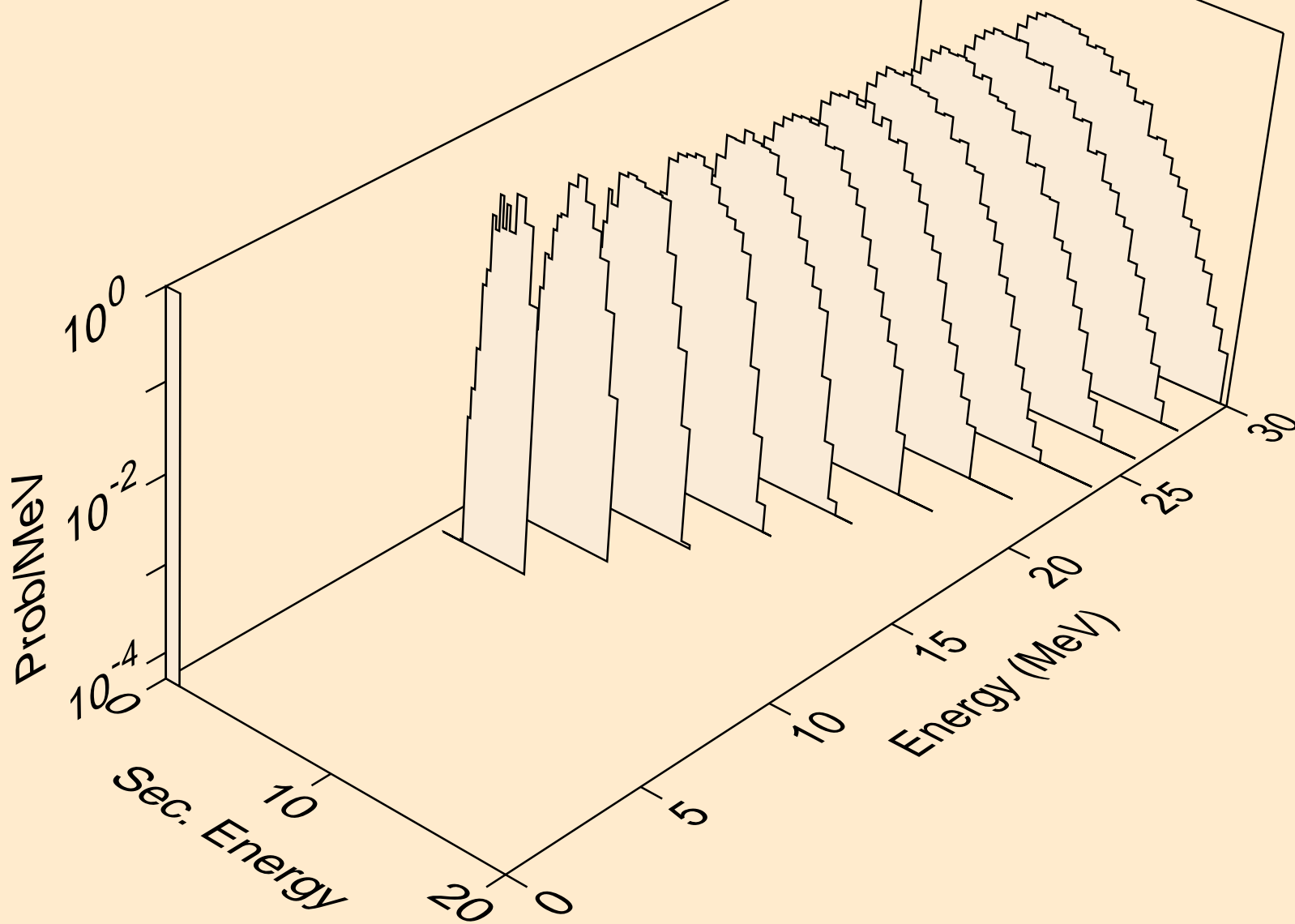
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protons from (n,p)



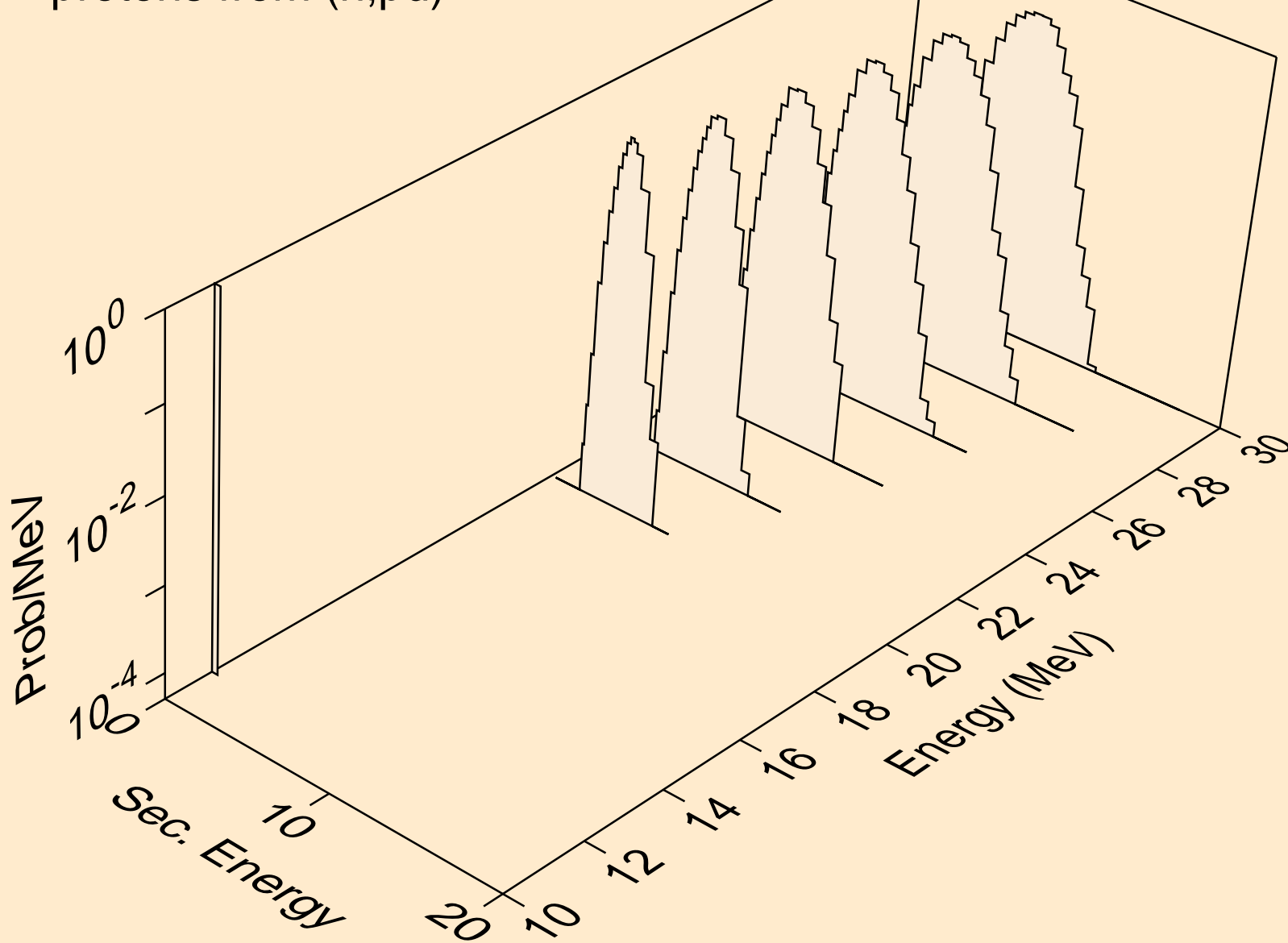
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protons from (n,2p)



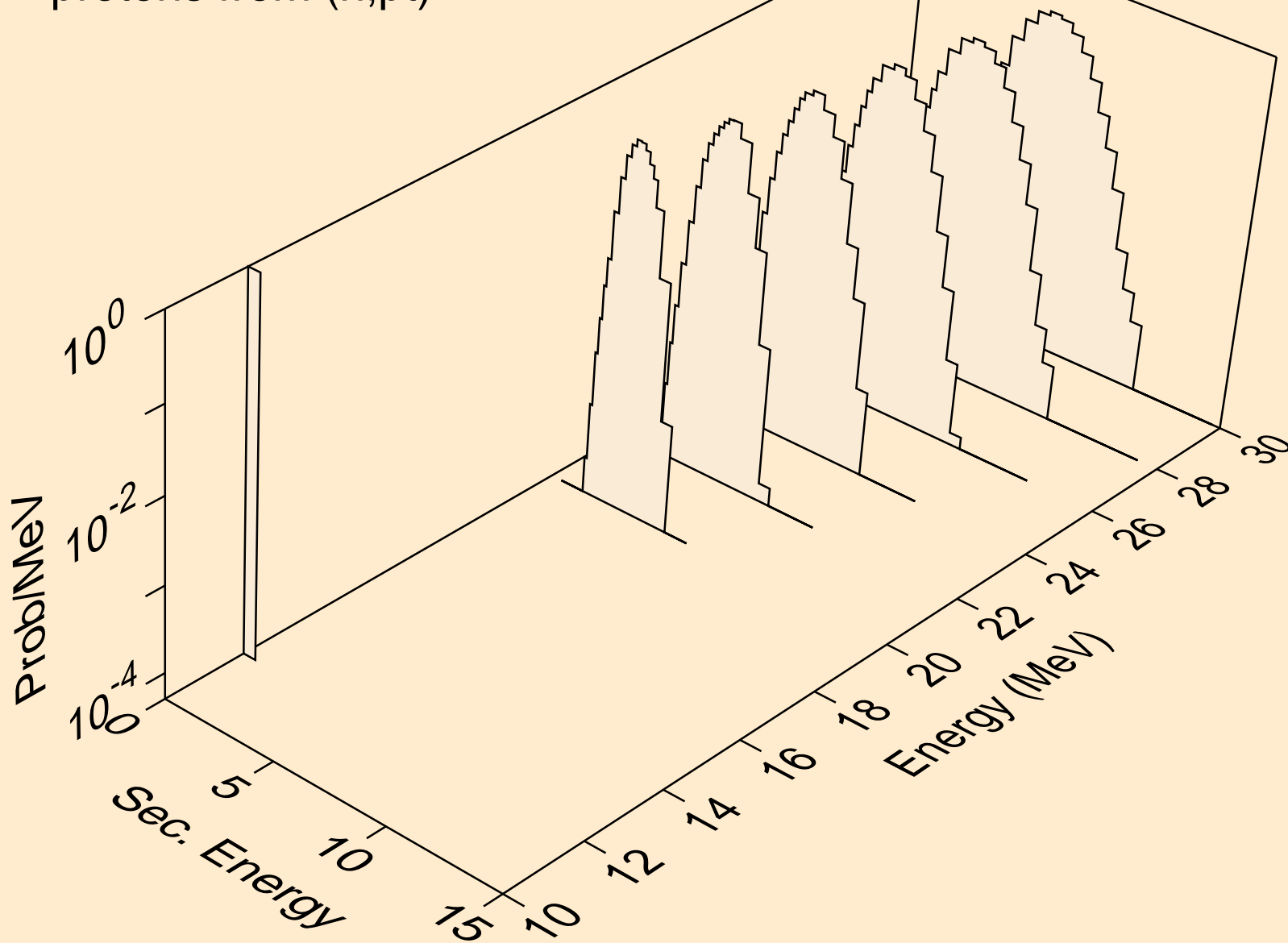
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protons from (n,p)



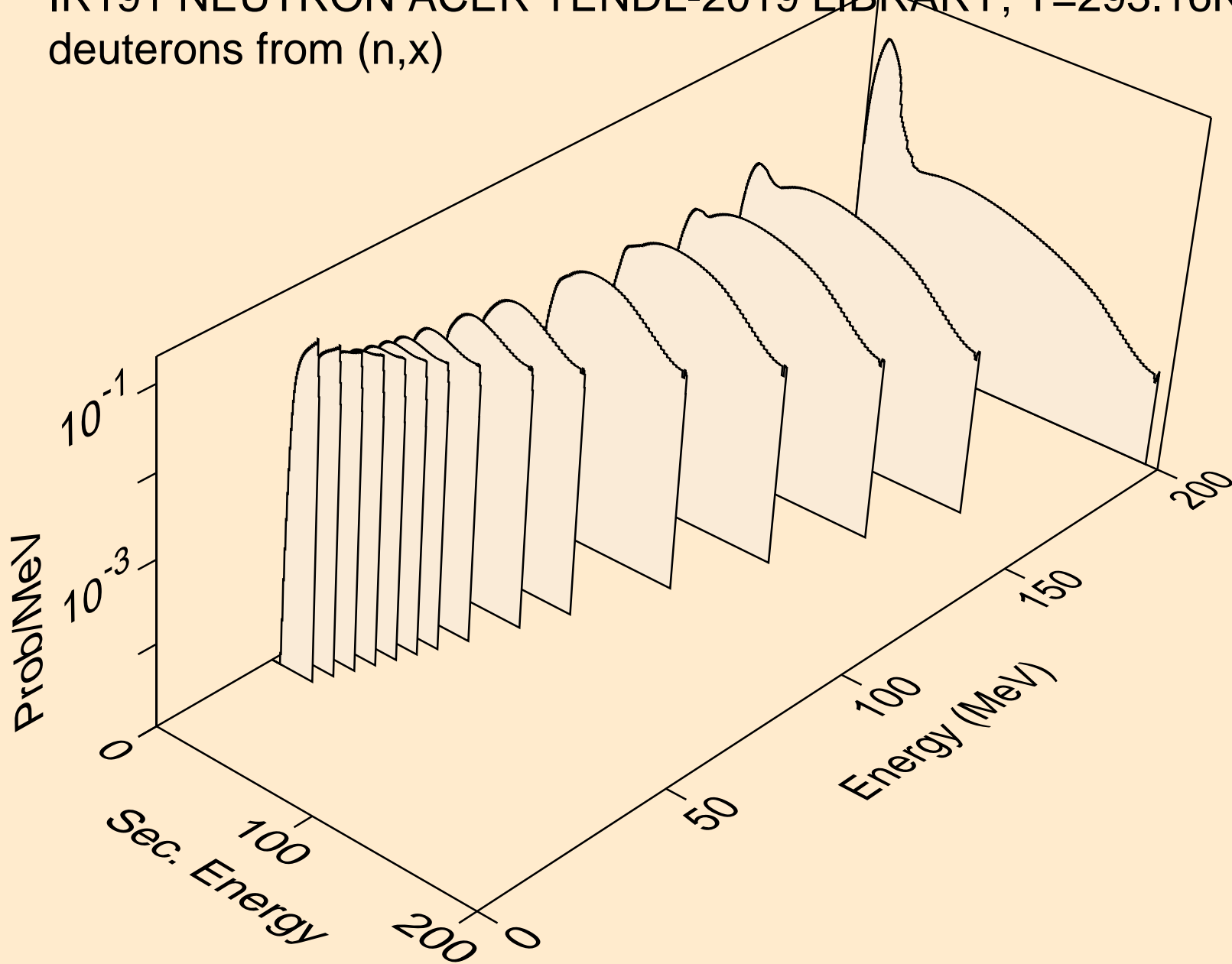
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protons from (n,pd)



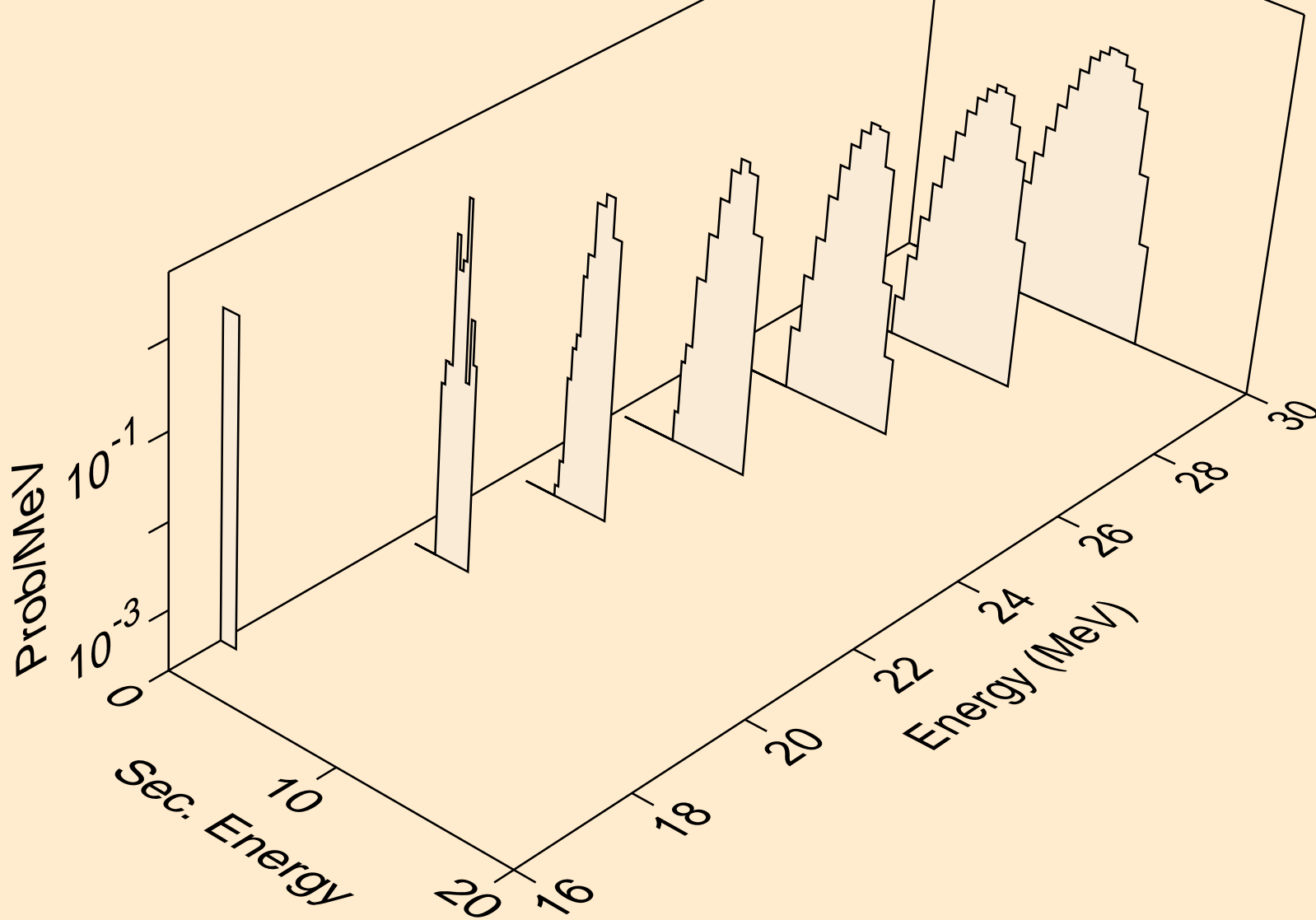
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protons from (n,pt)



IR191 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
deuterons from (n,x)

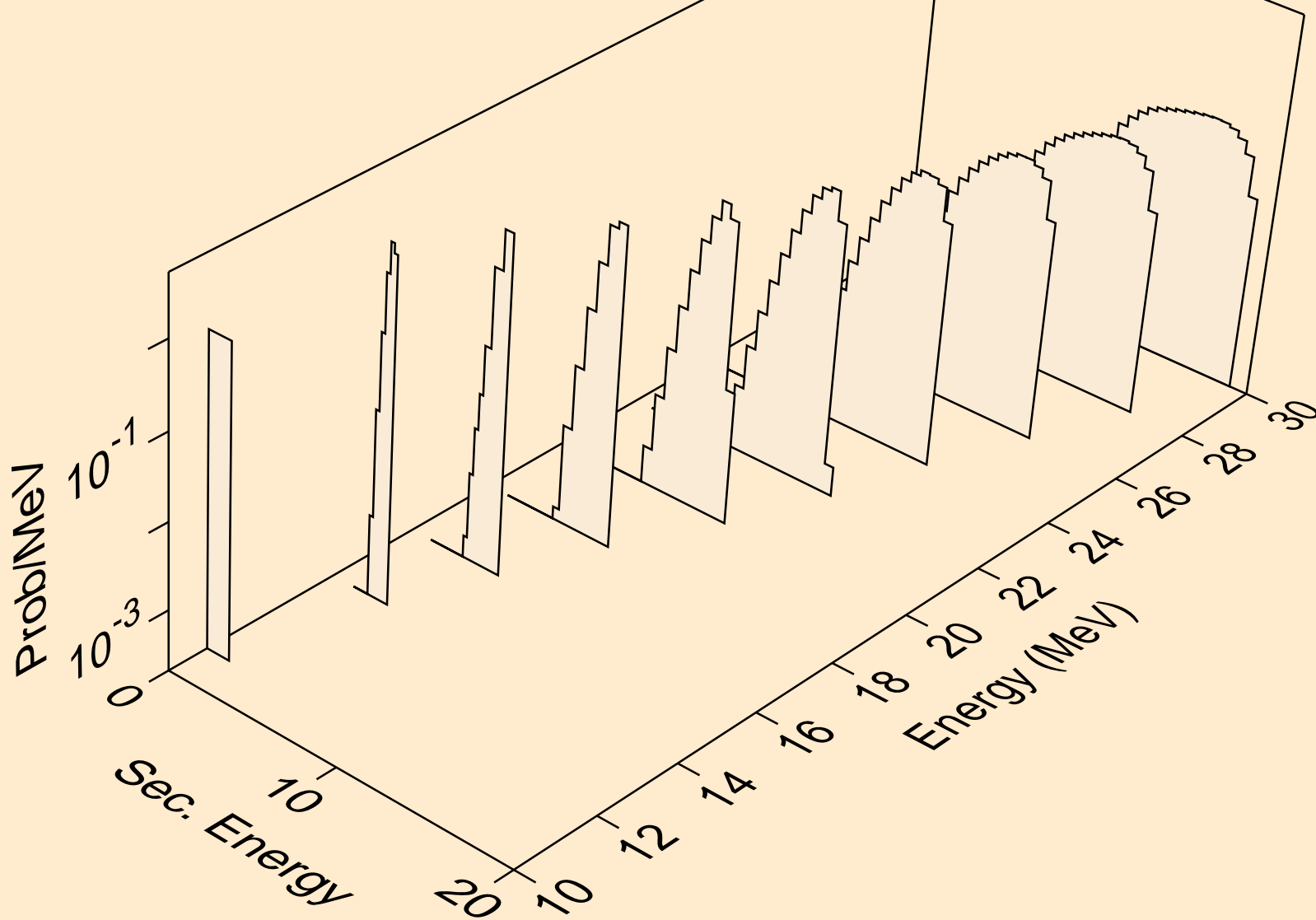


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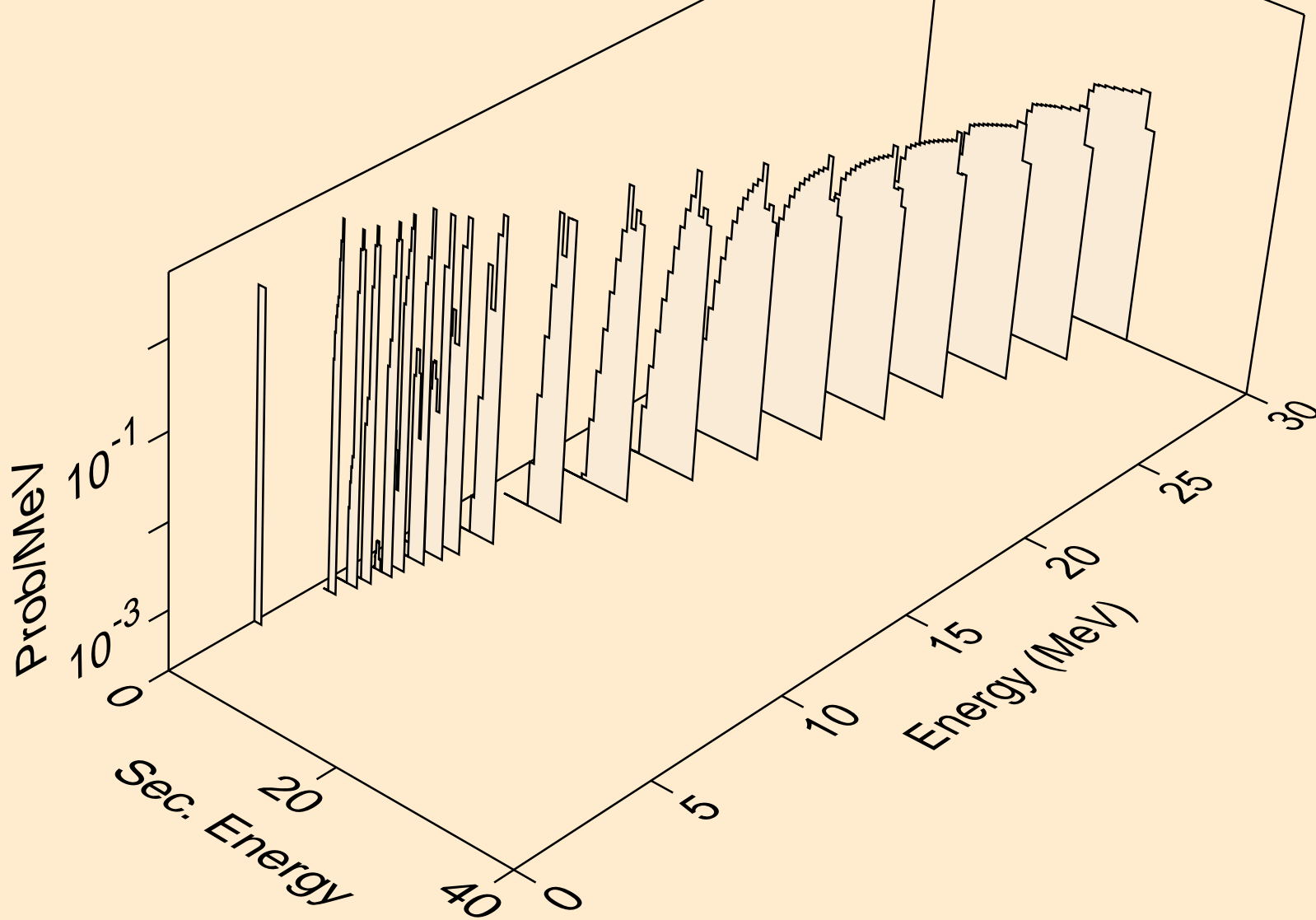




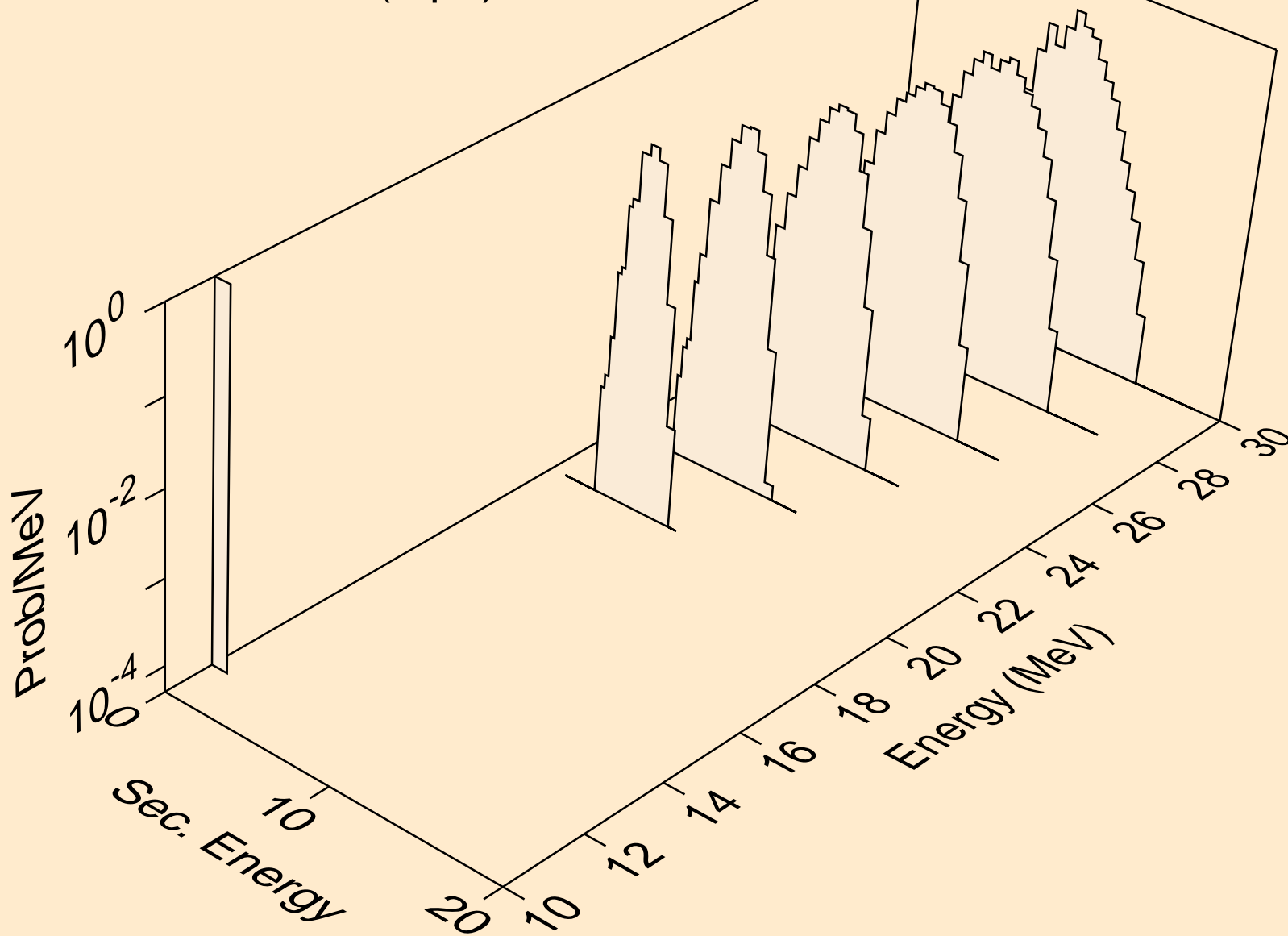
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deuterons from (n,n\*)d



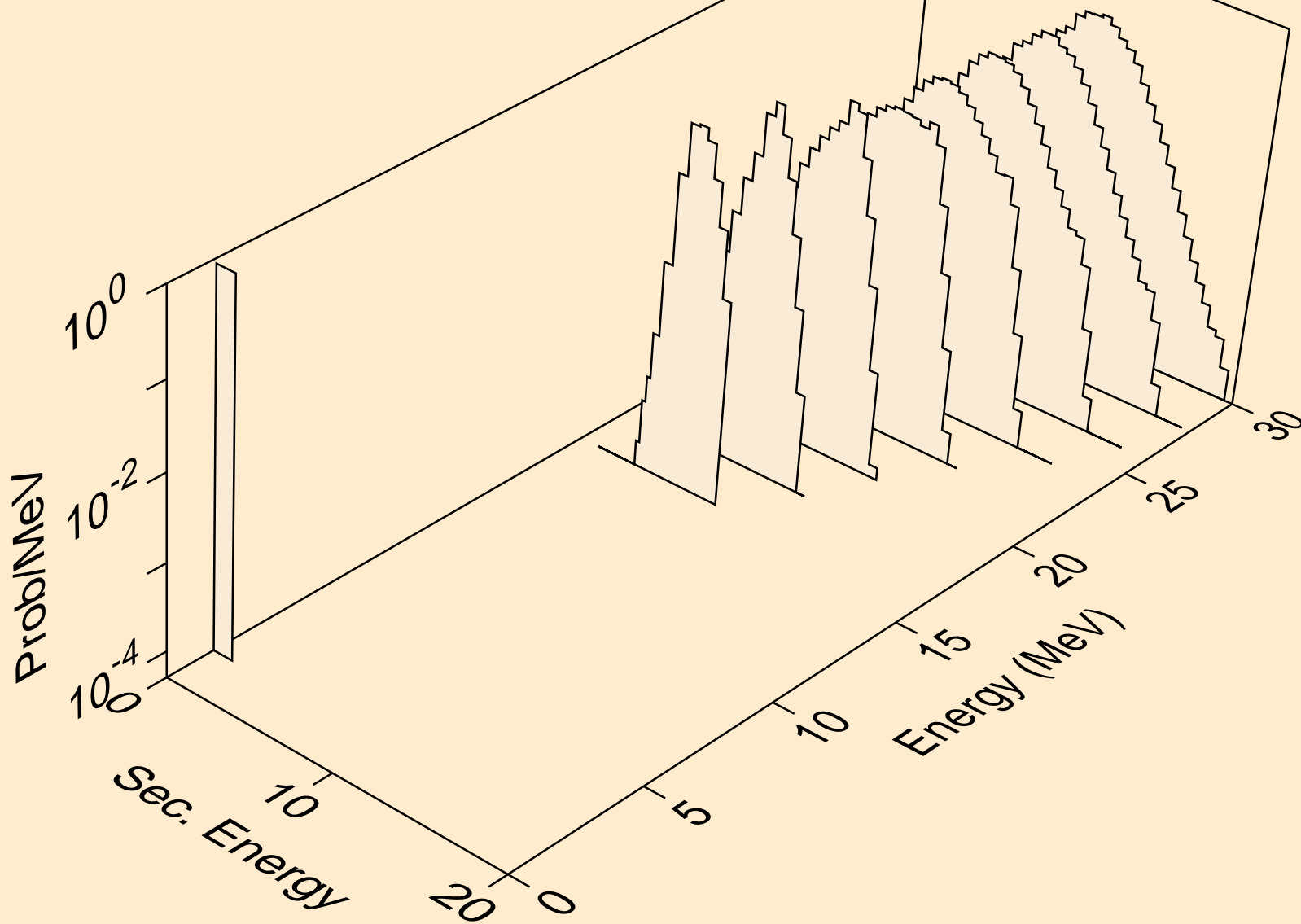
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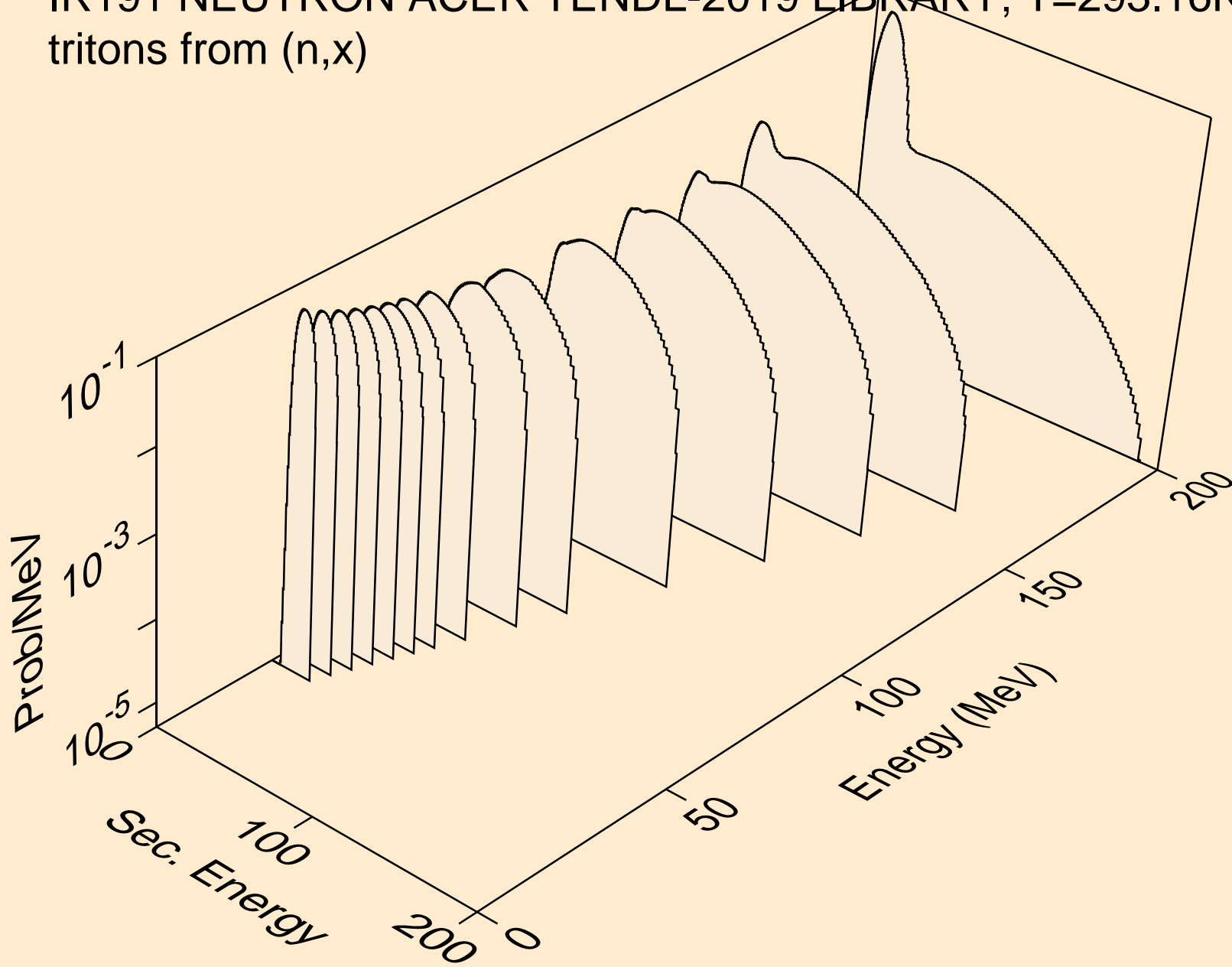
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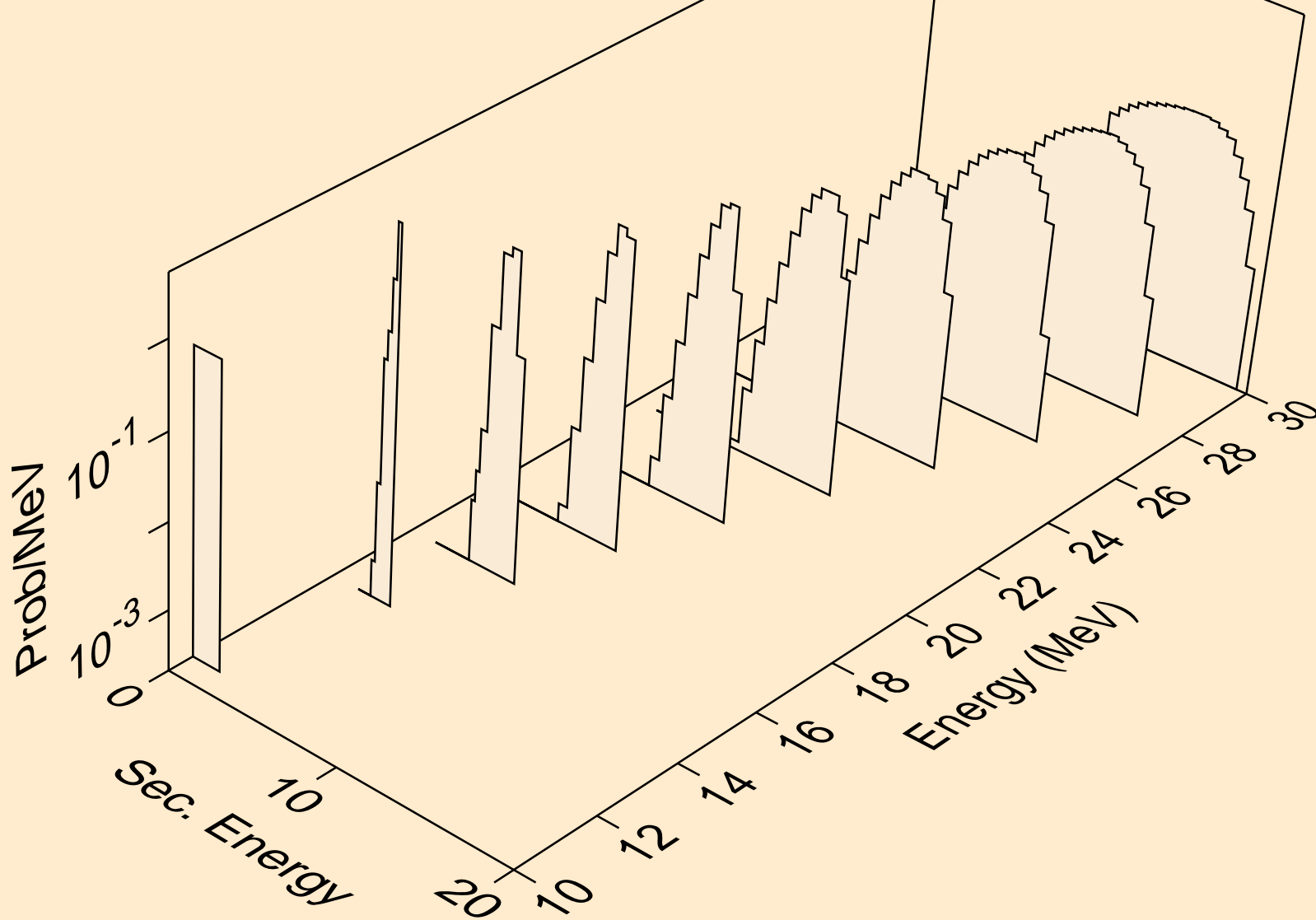
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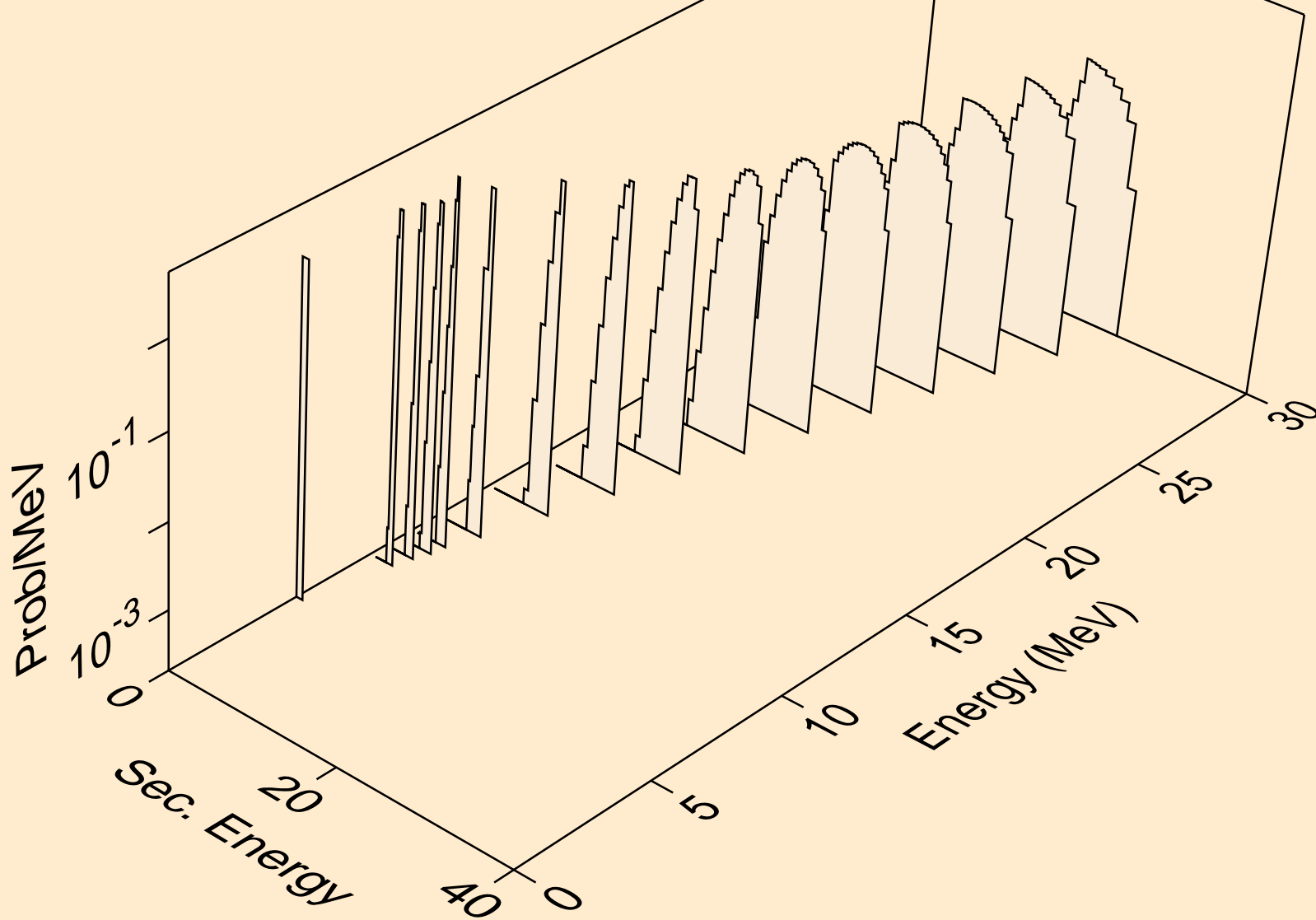
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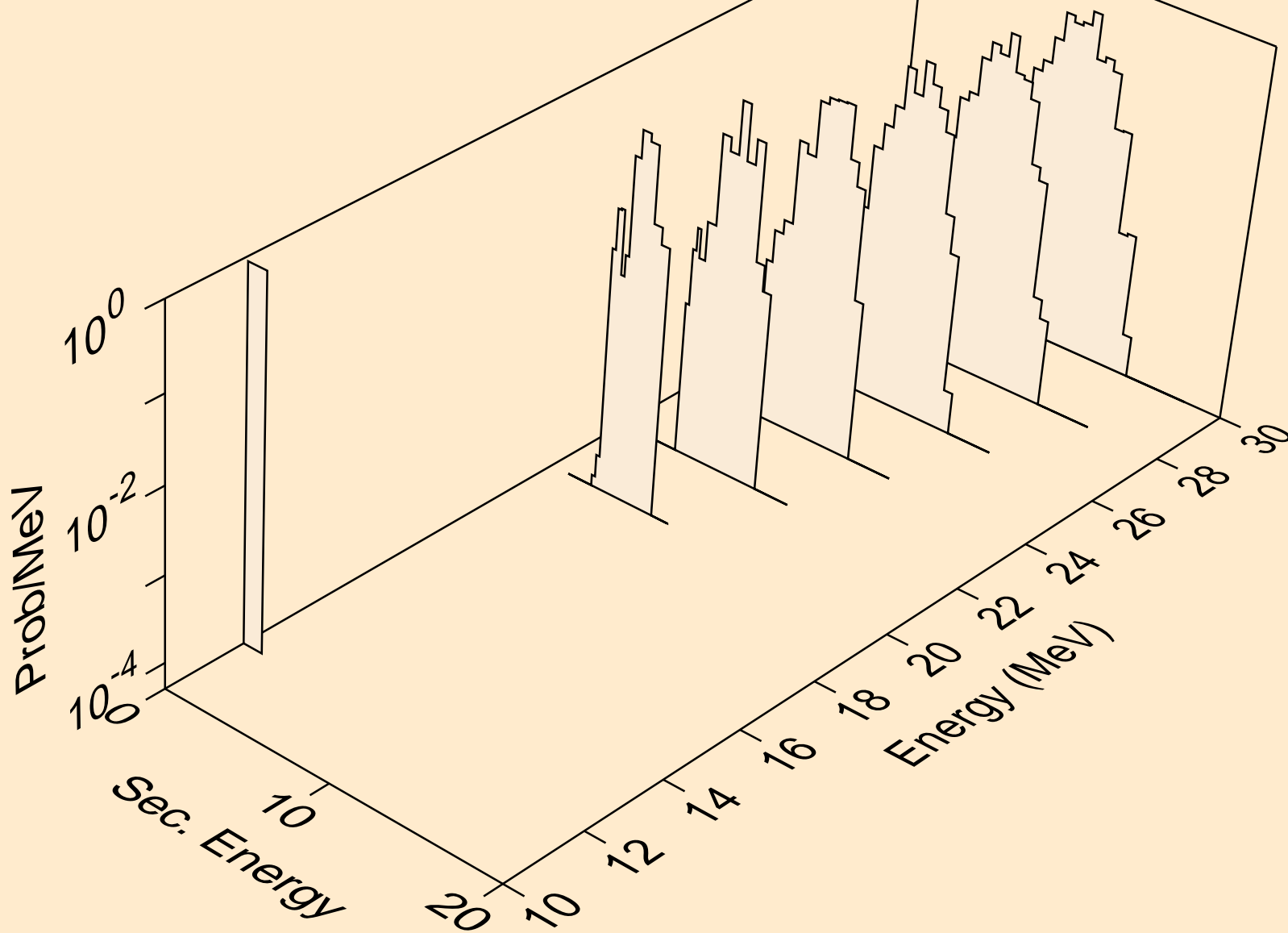
IR191 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
tritons from (n,n\*)t



IR191 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
tritons from (n,t)

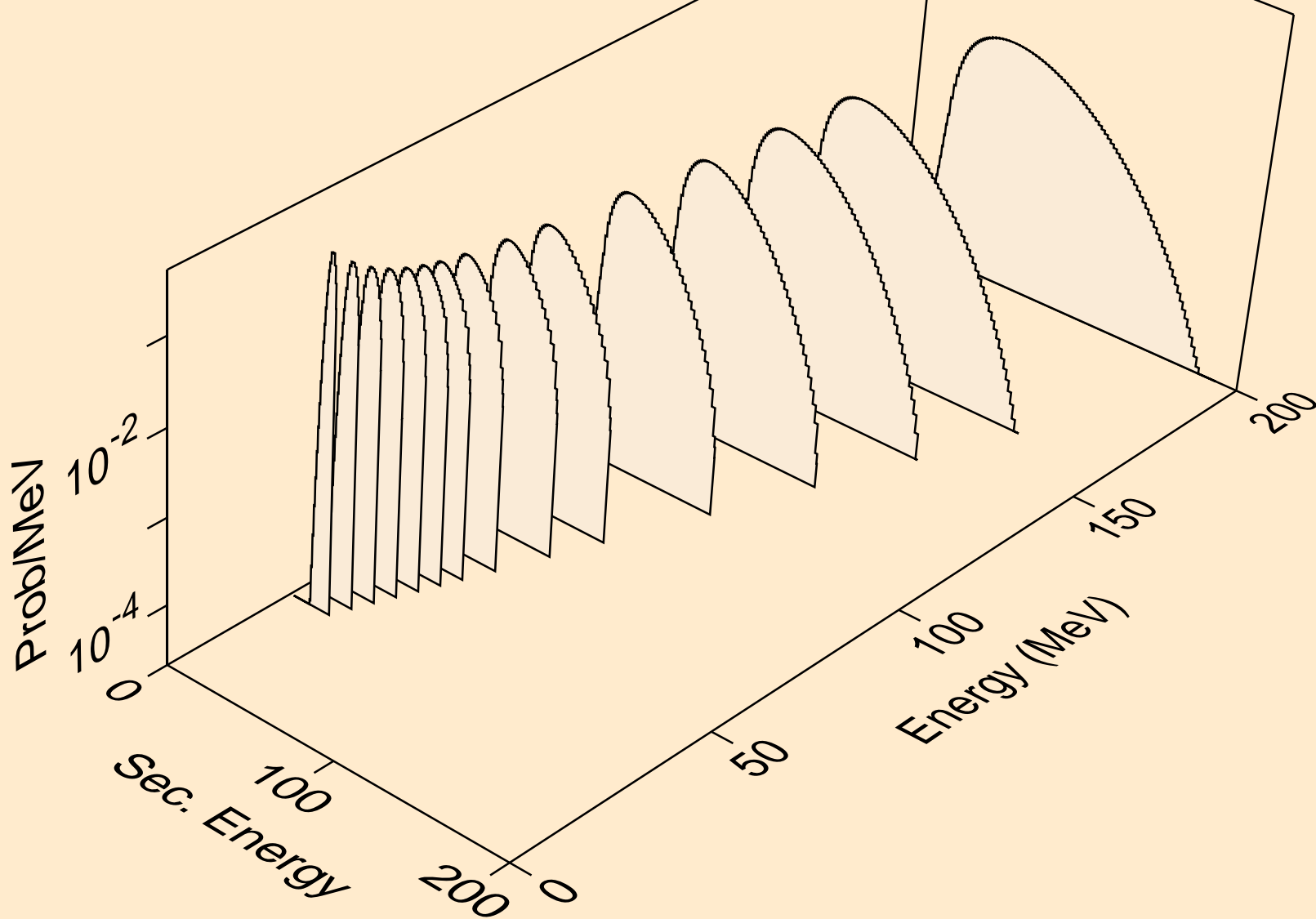


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tritons from (n,pt)

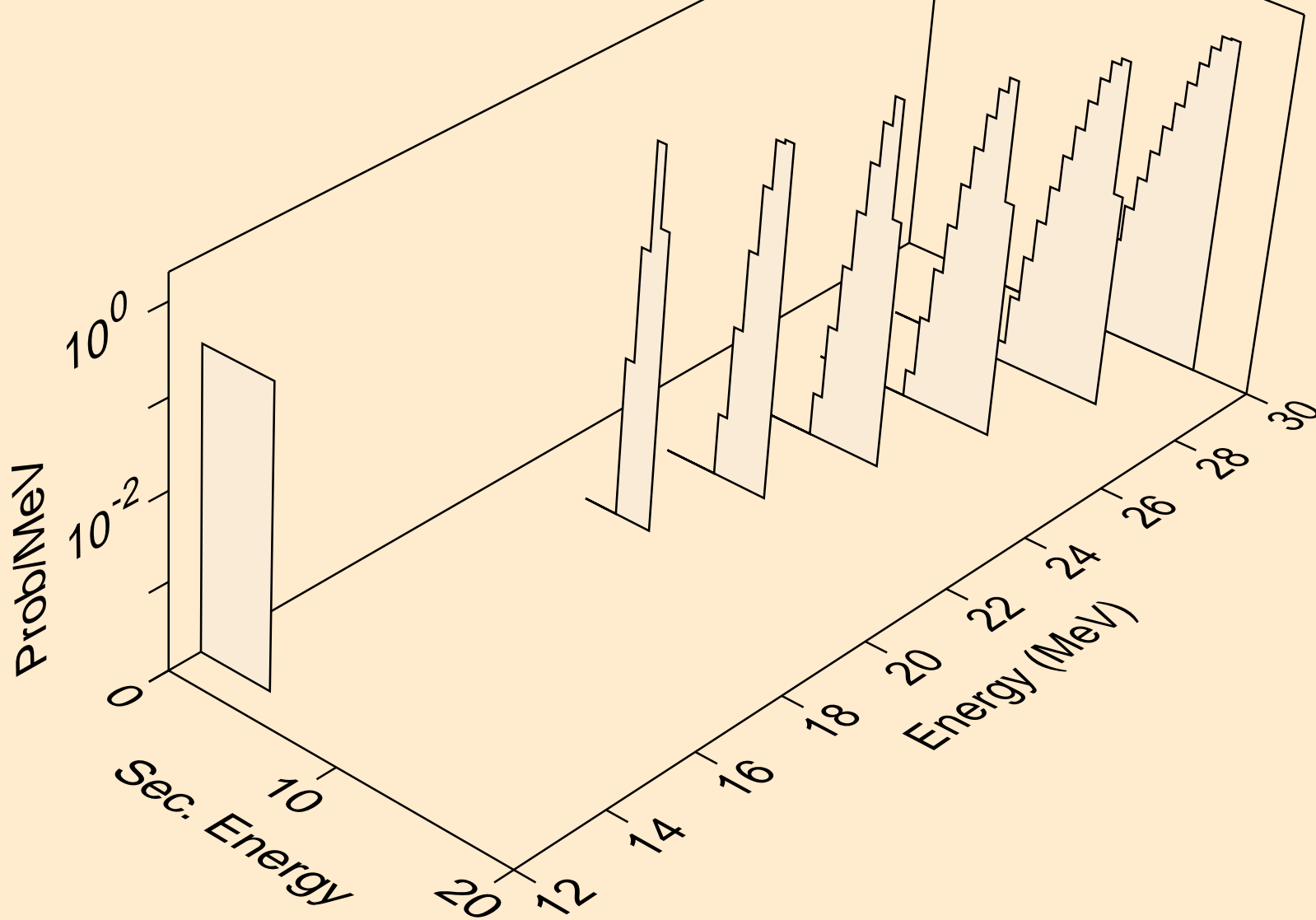




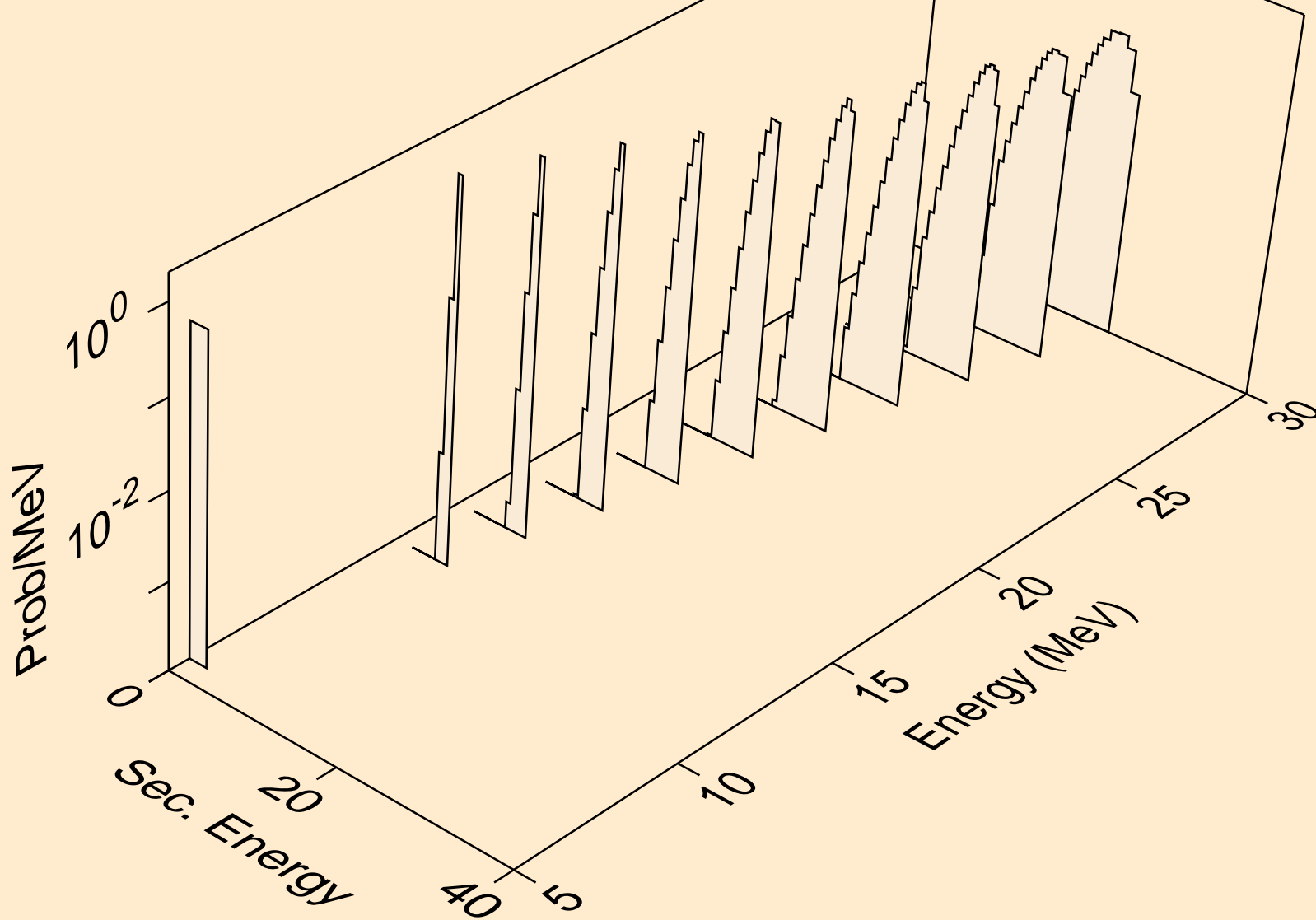
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he3s from (n,x)



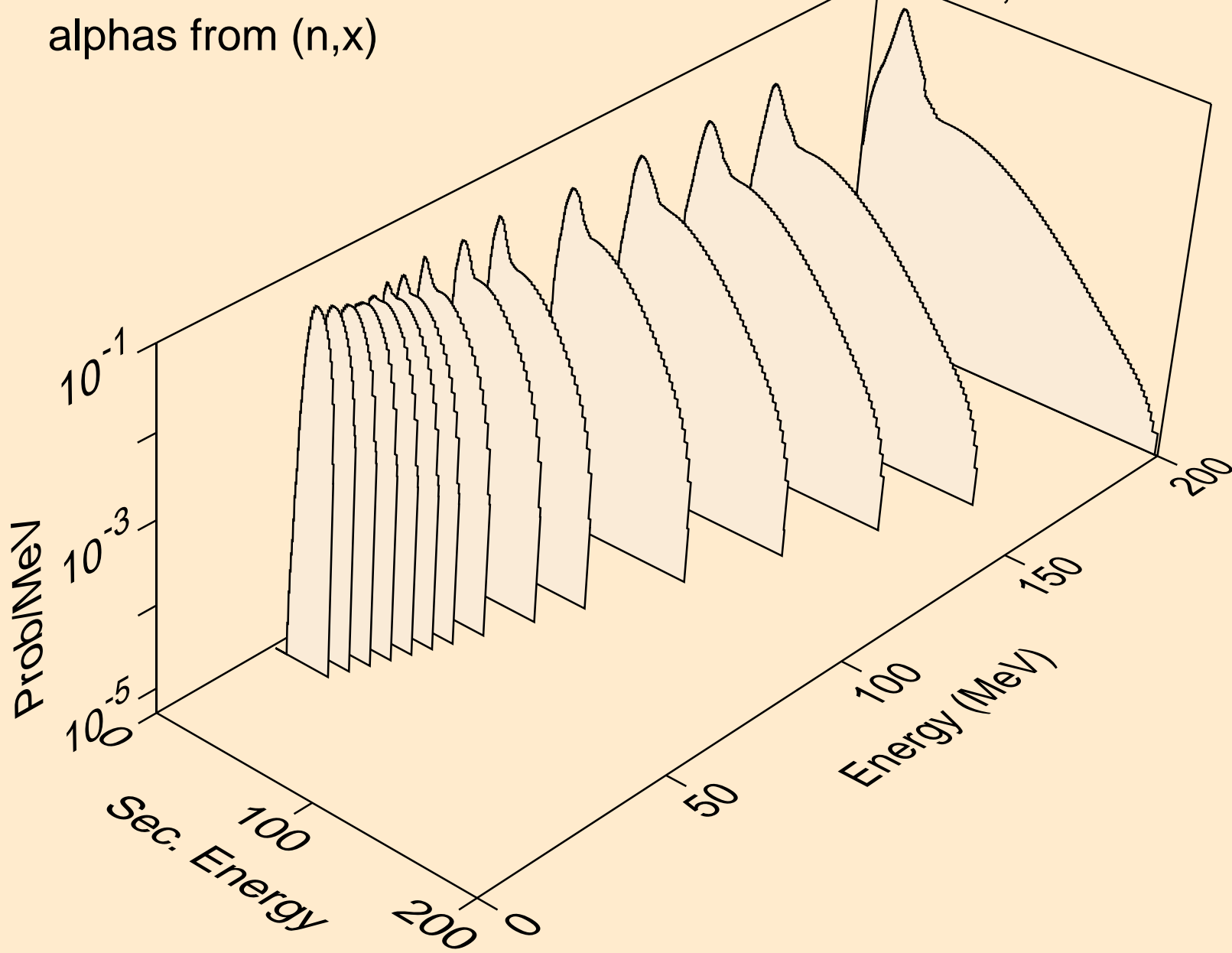
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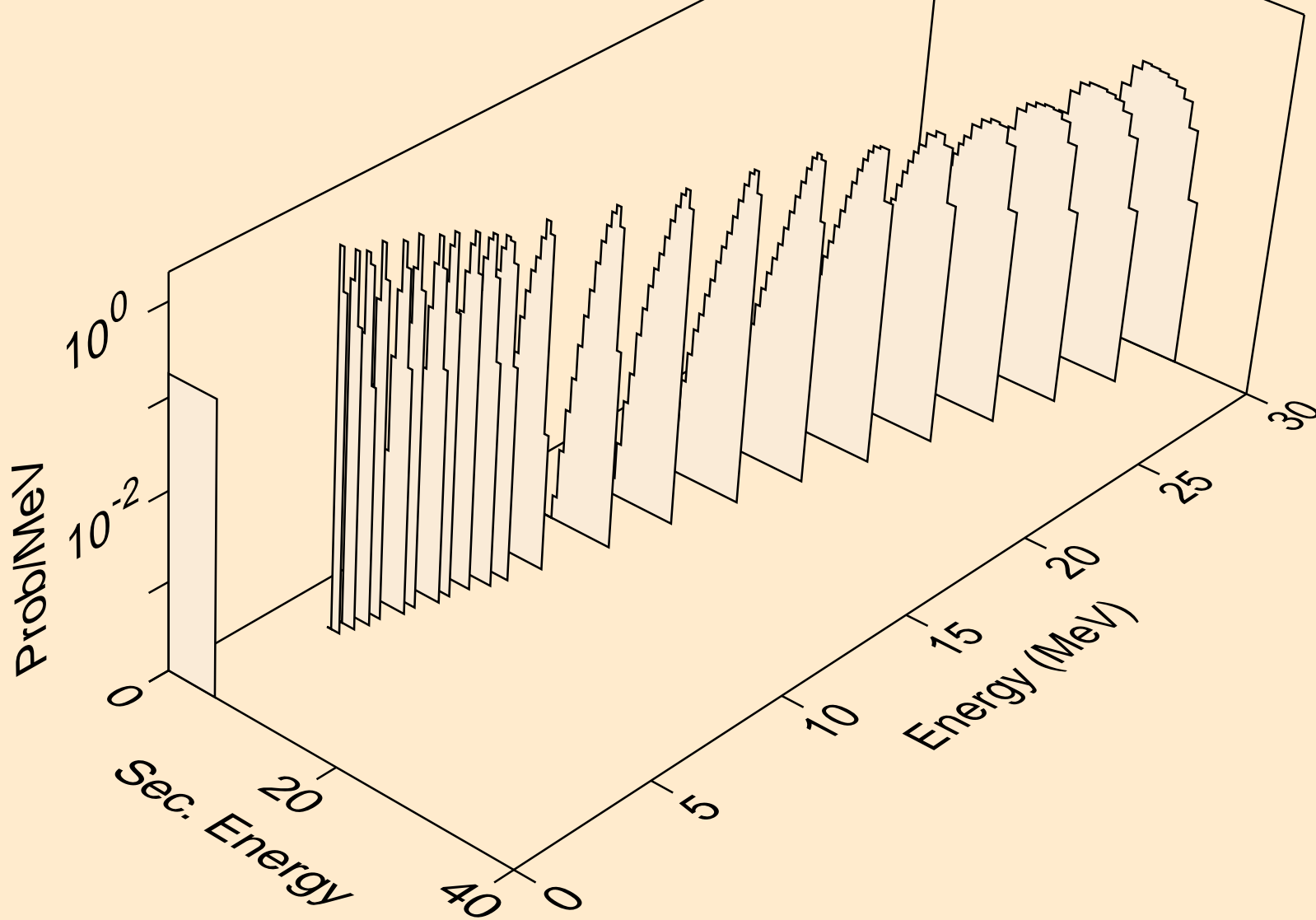
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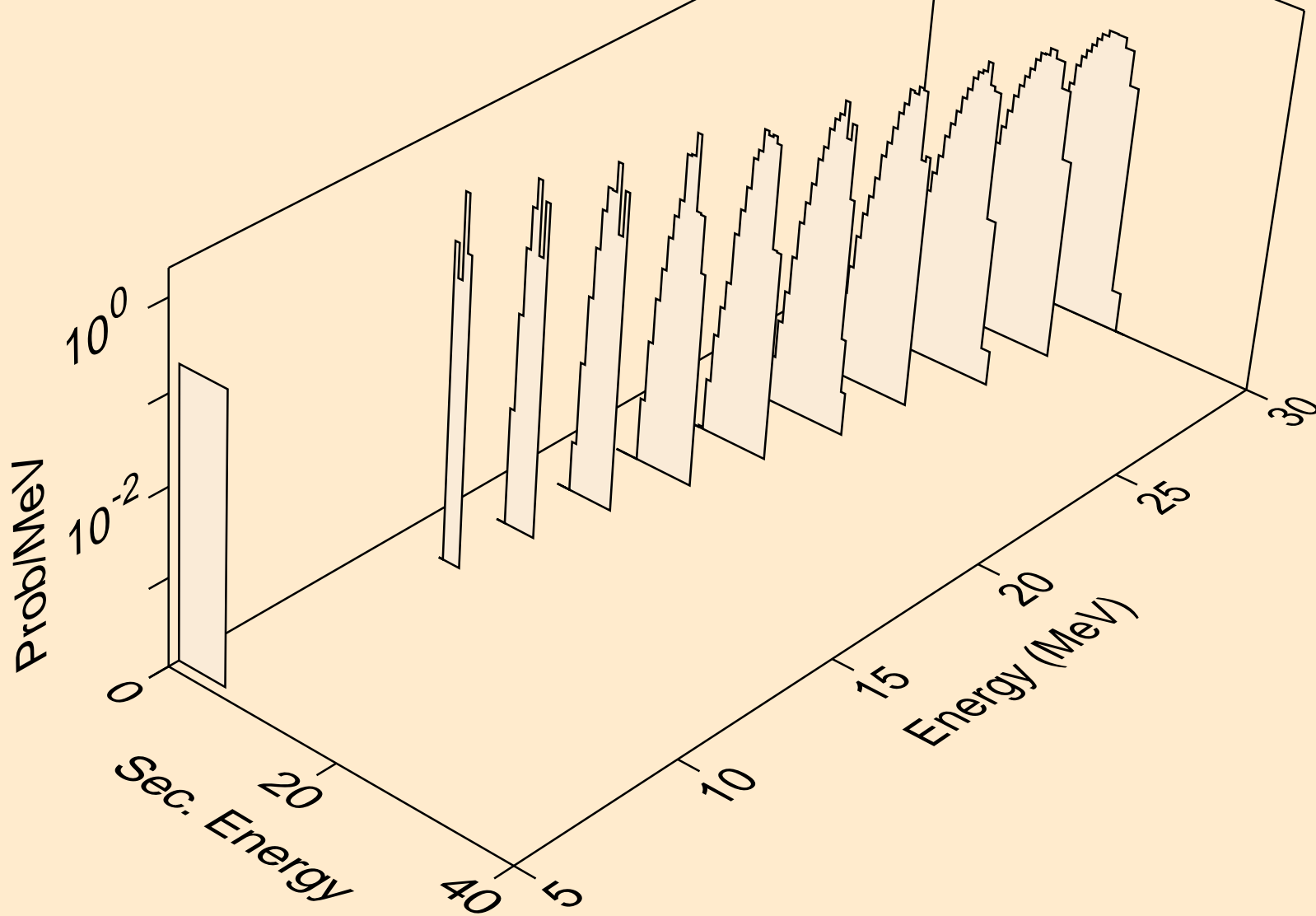
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alphas from (n,x)



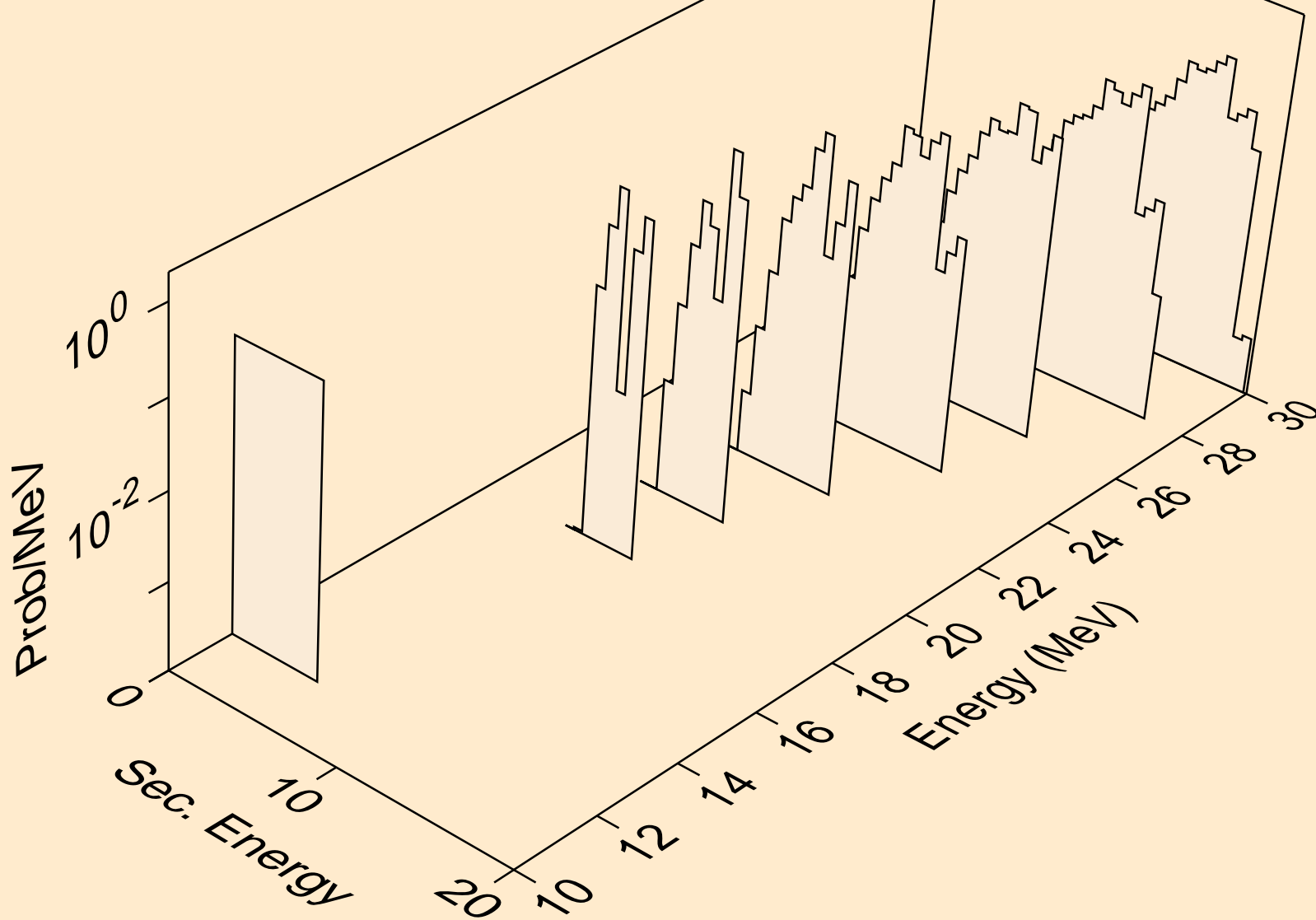
IR191 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
alphas from (n,n\*)a



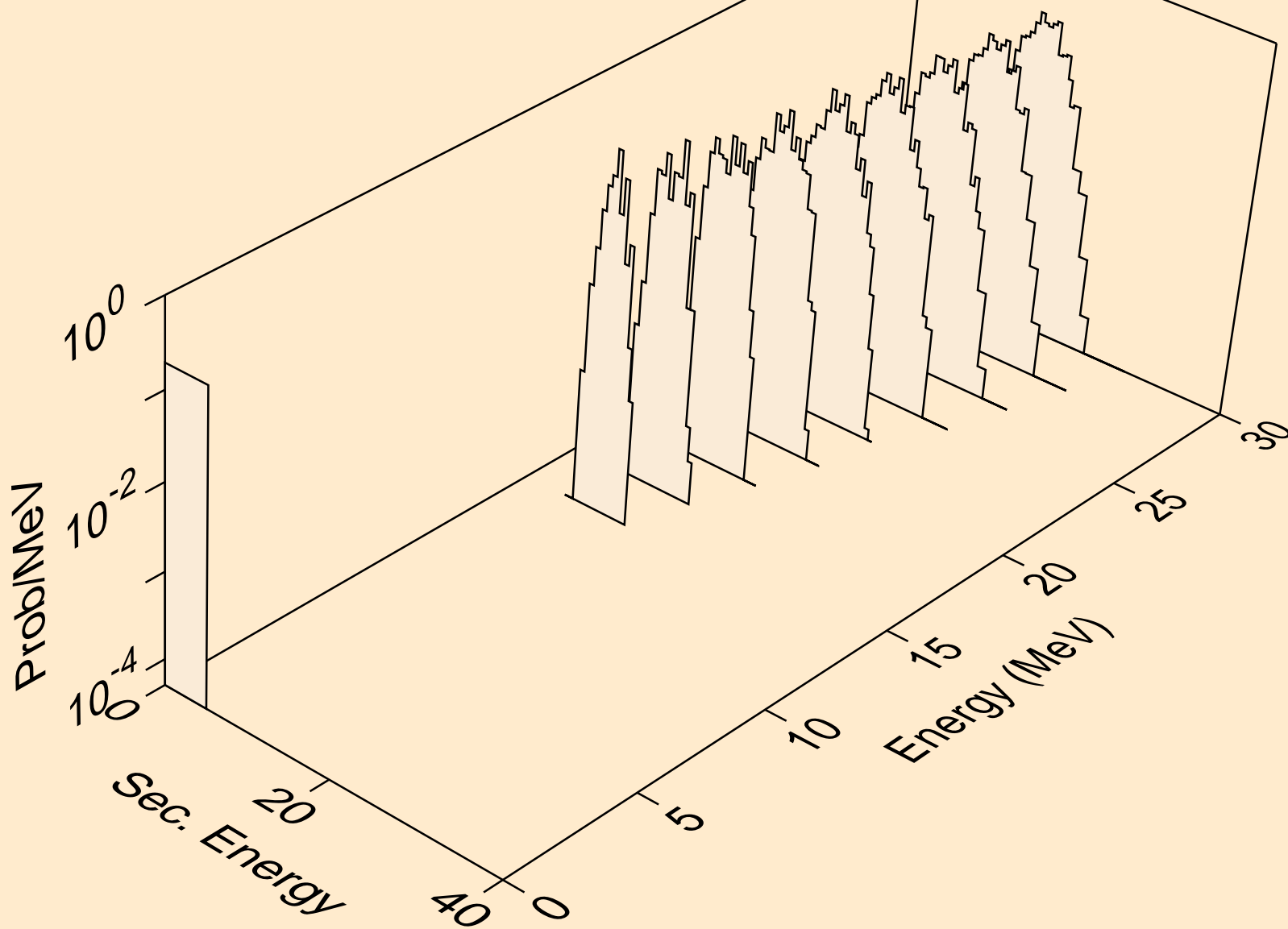
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IR191 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
alphas from (n,3n)a

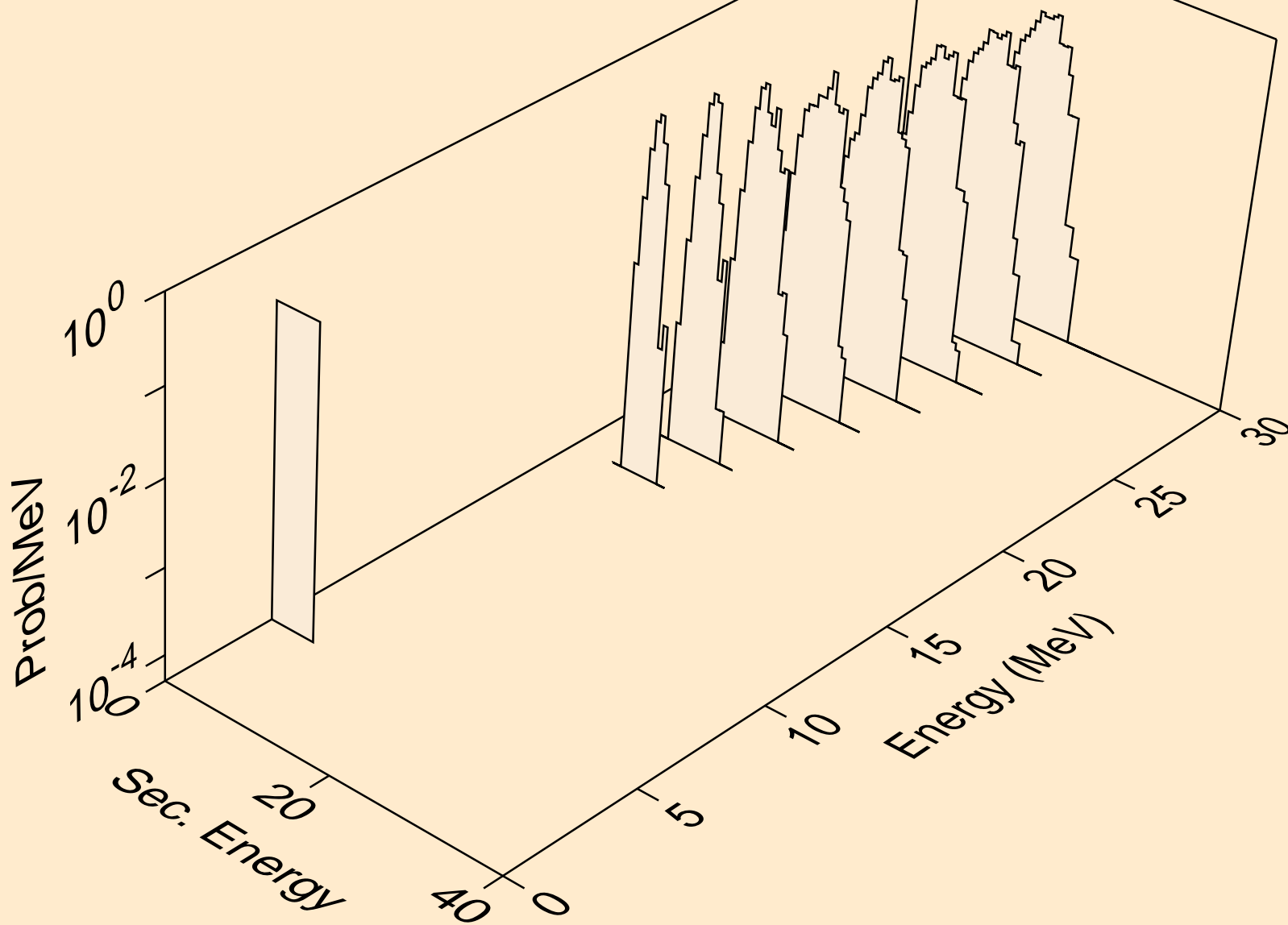


IR191 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
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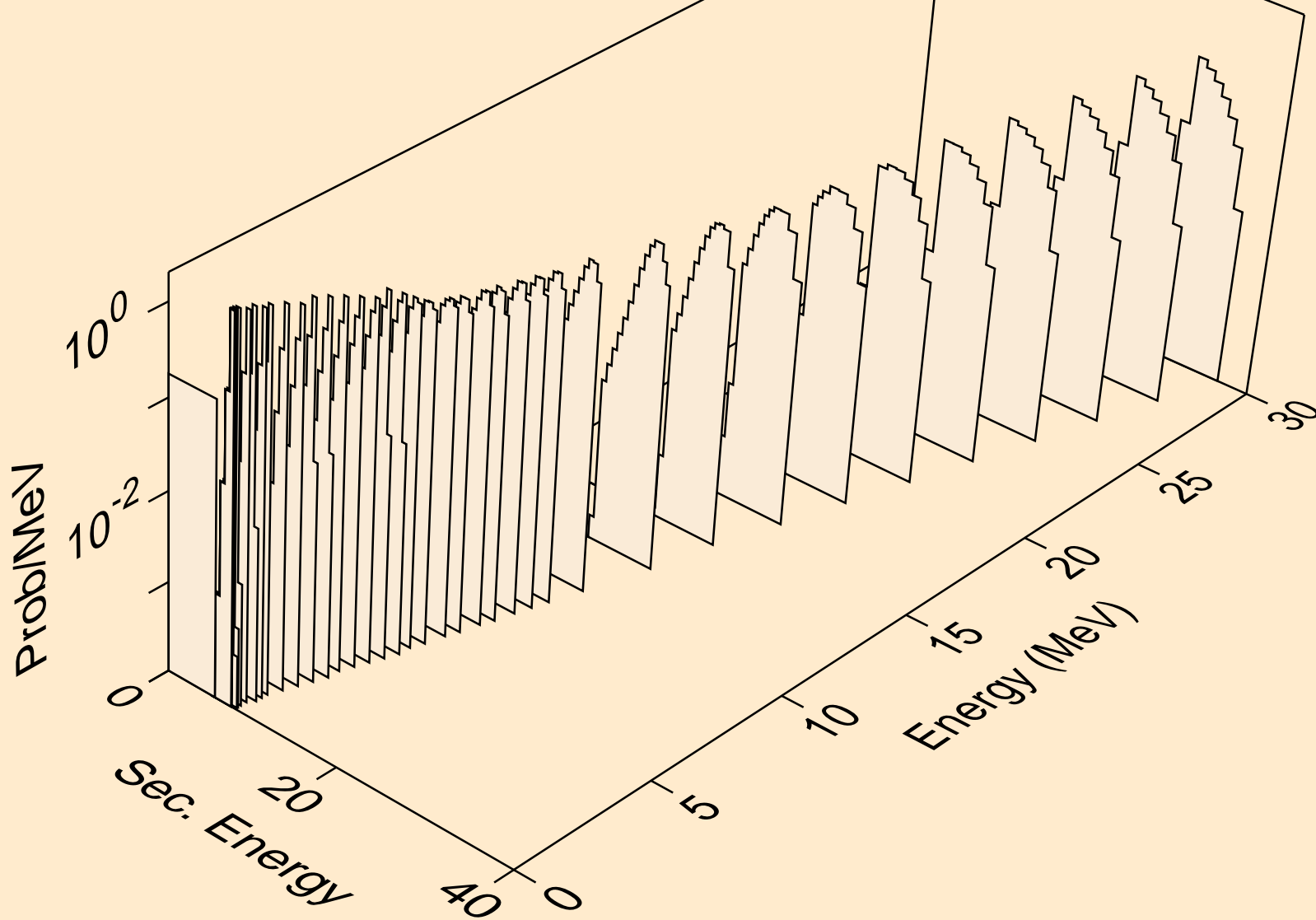




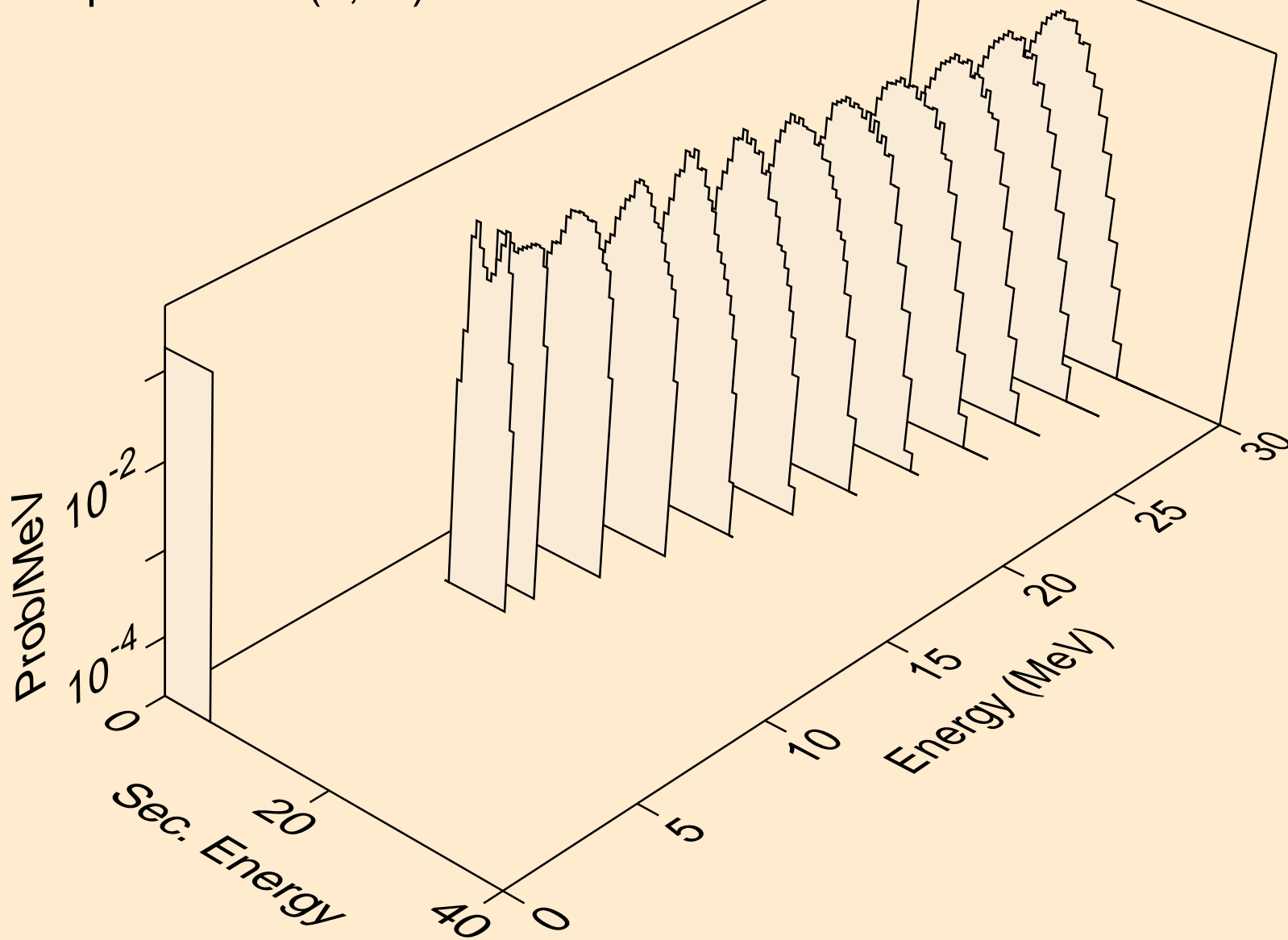
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alphas from (n,npa)



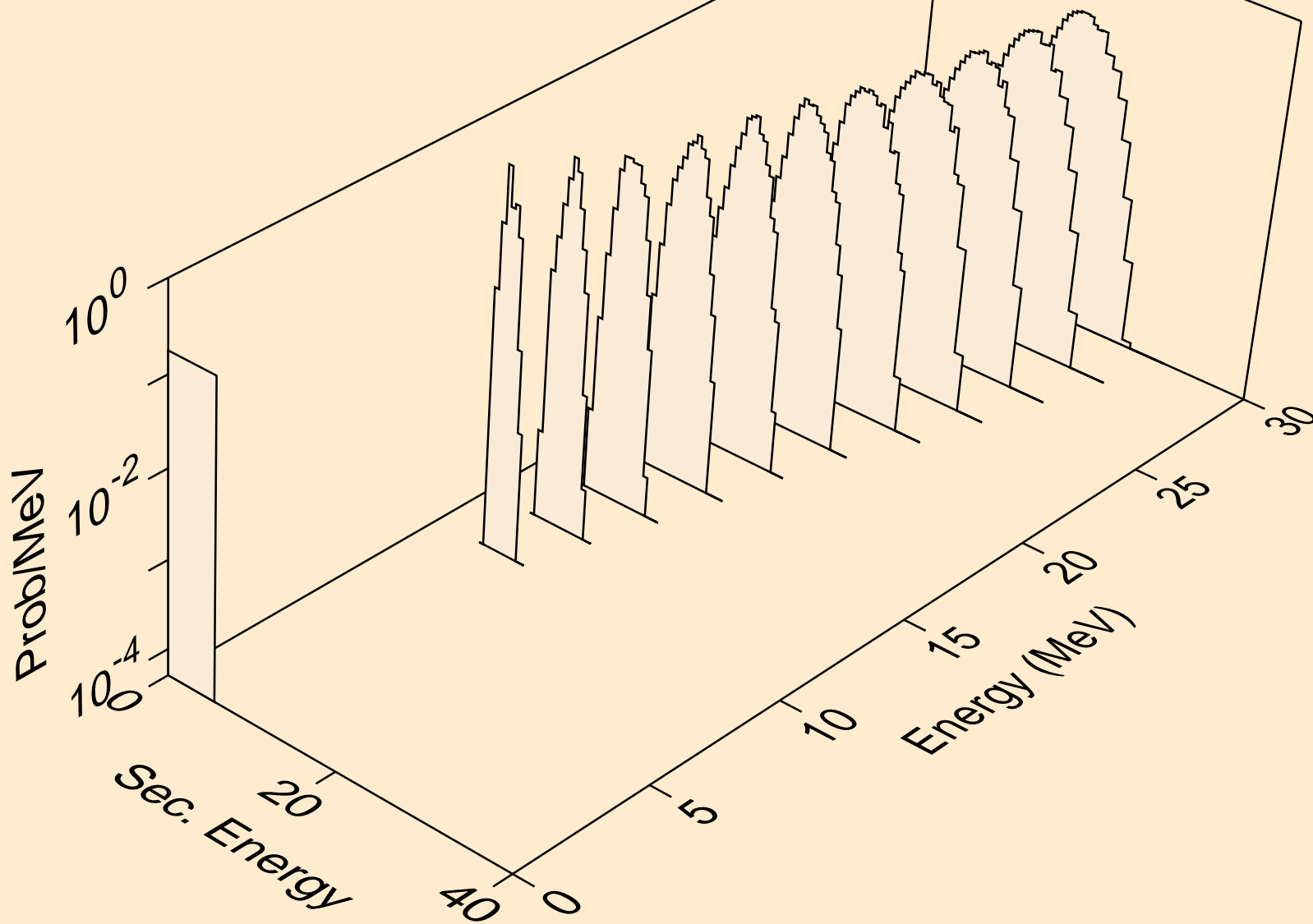
IR191 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
alphas from (n,a)



IR191 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
alphas from (n,2a)



IR191 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
alphas from (n,pa)



IR191 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
alphas from (n,da)

