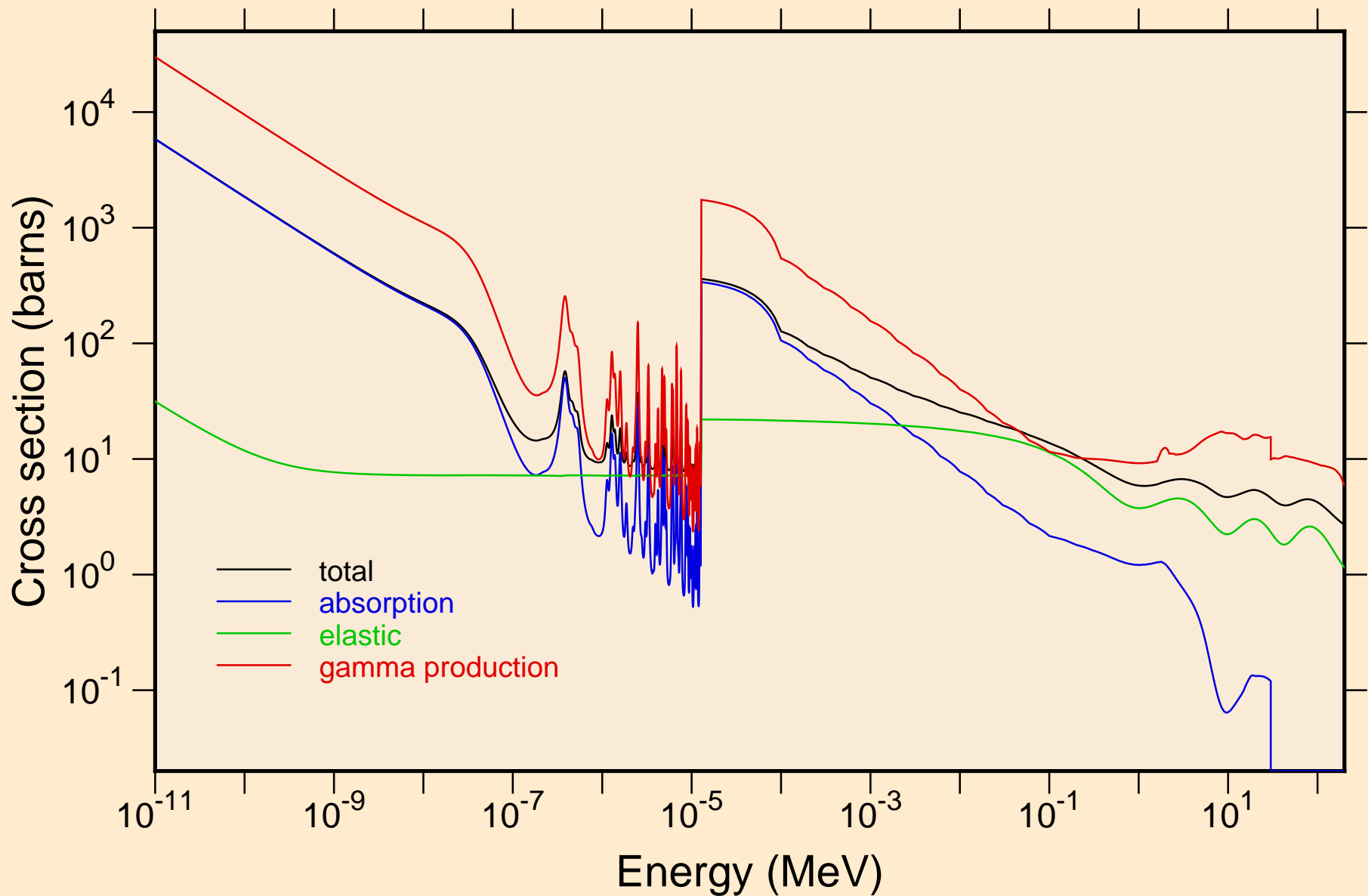
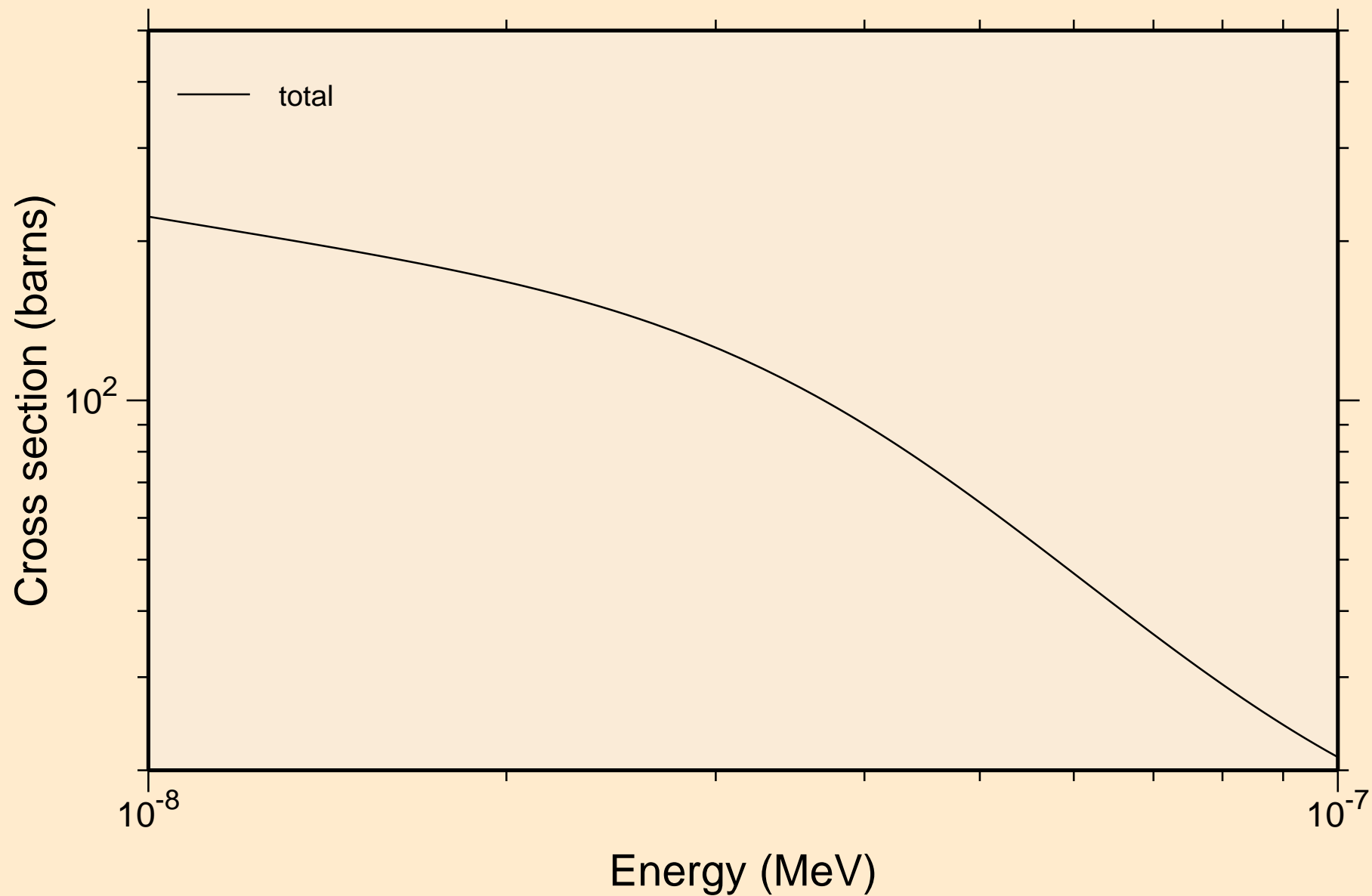


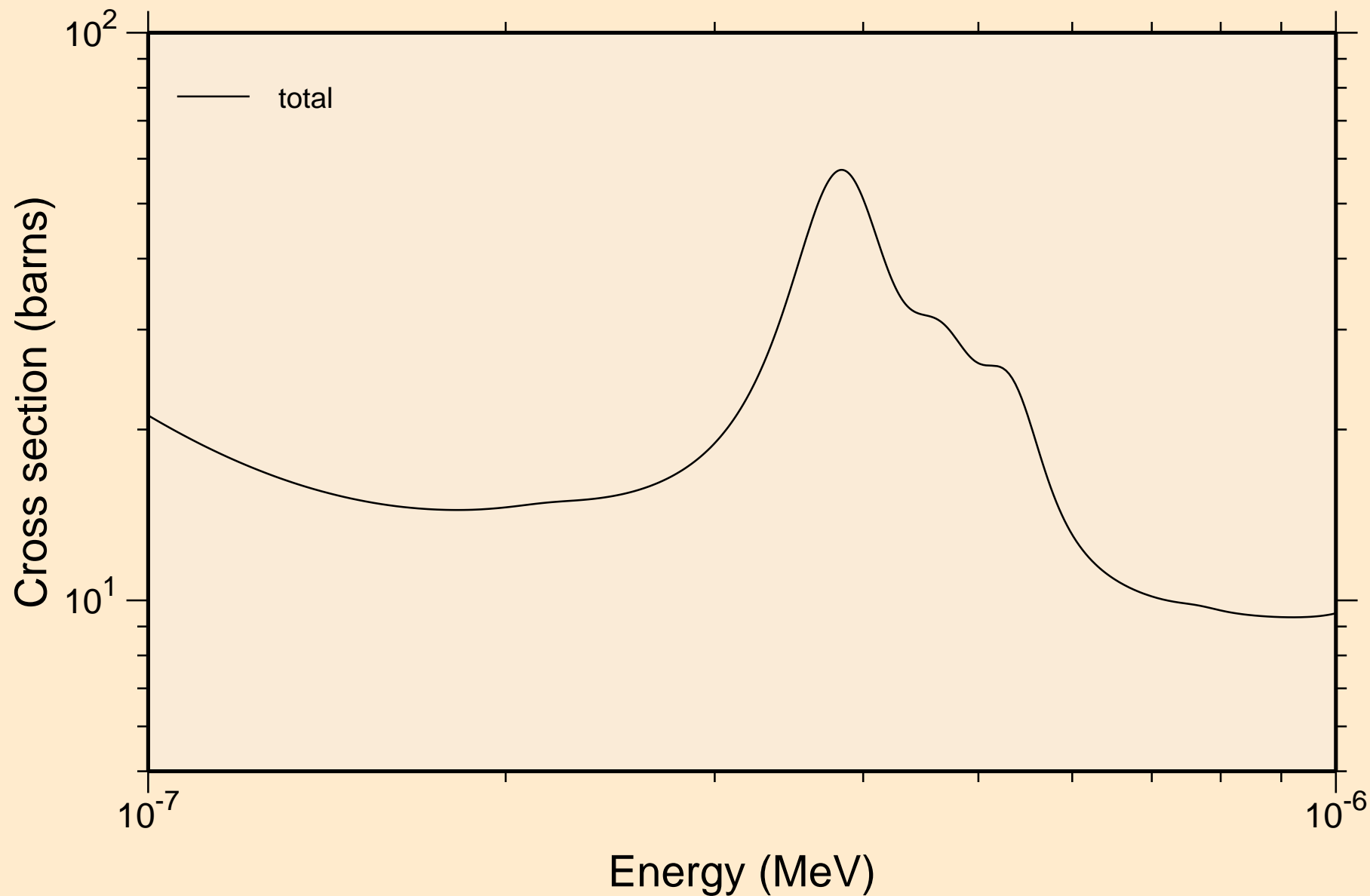
OS177 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Principal cross sections



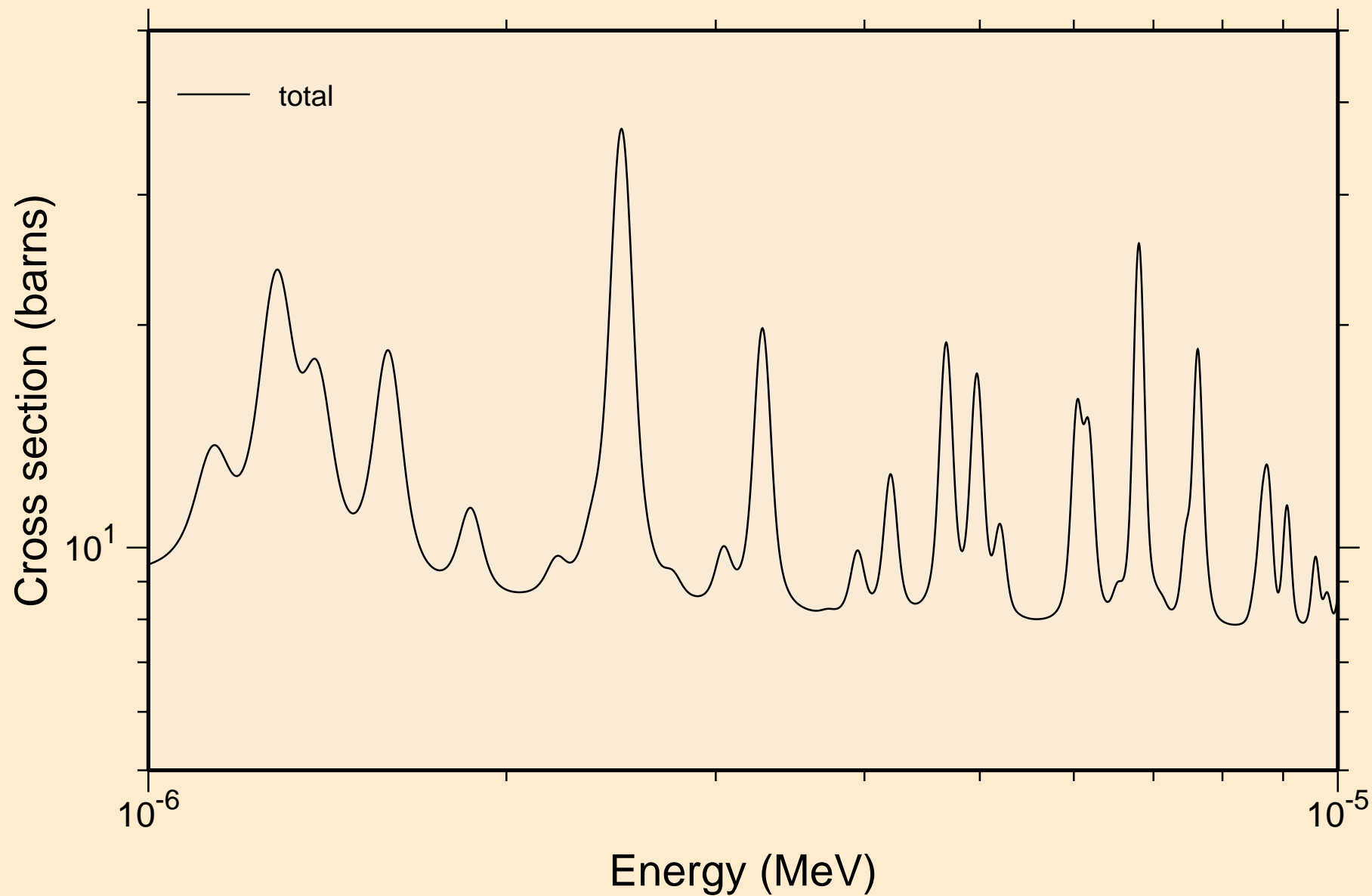
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resonance total cross section



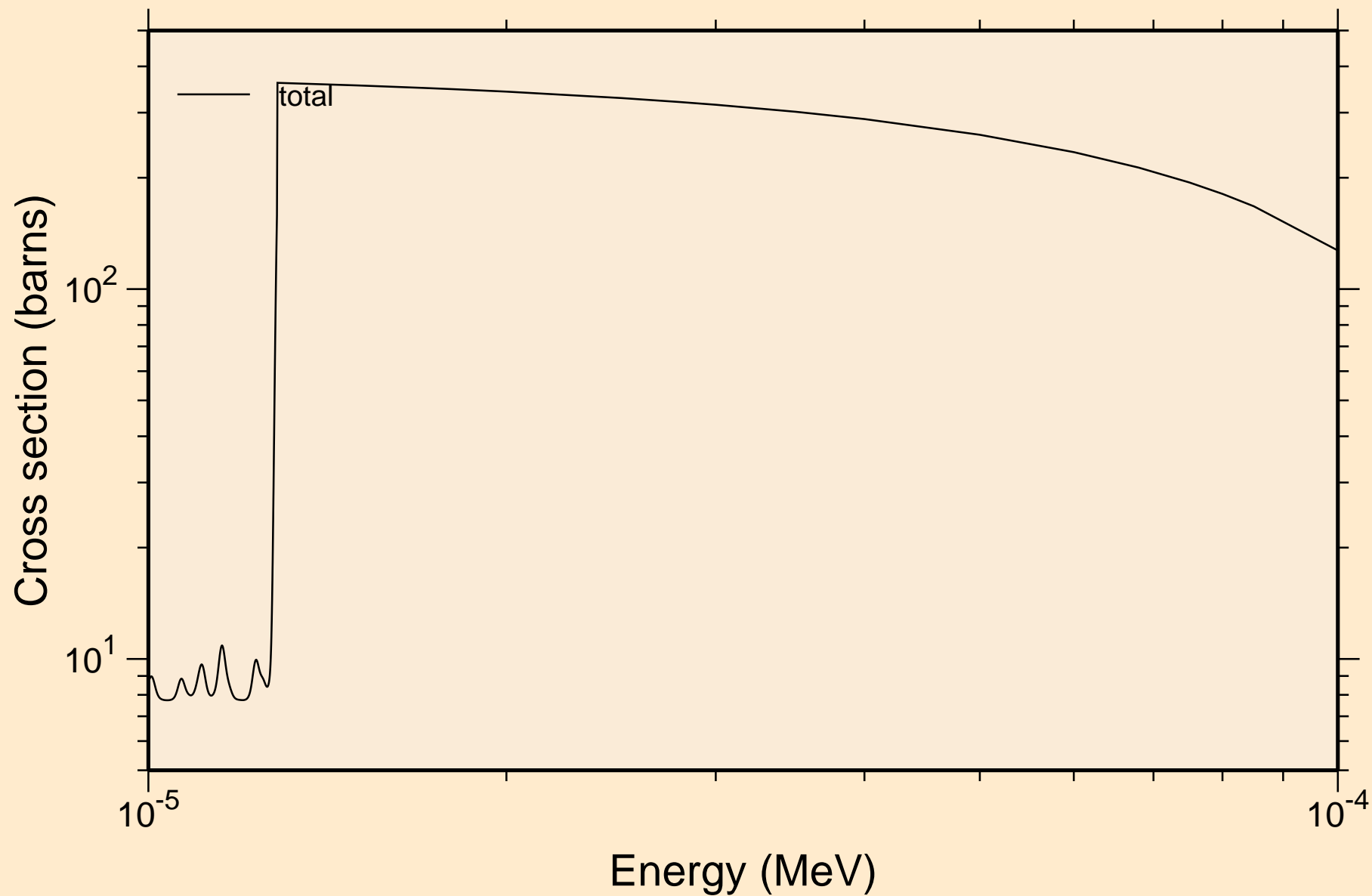
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resonance total cross section



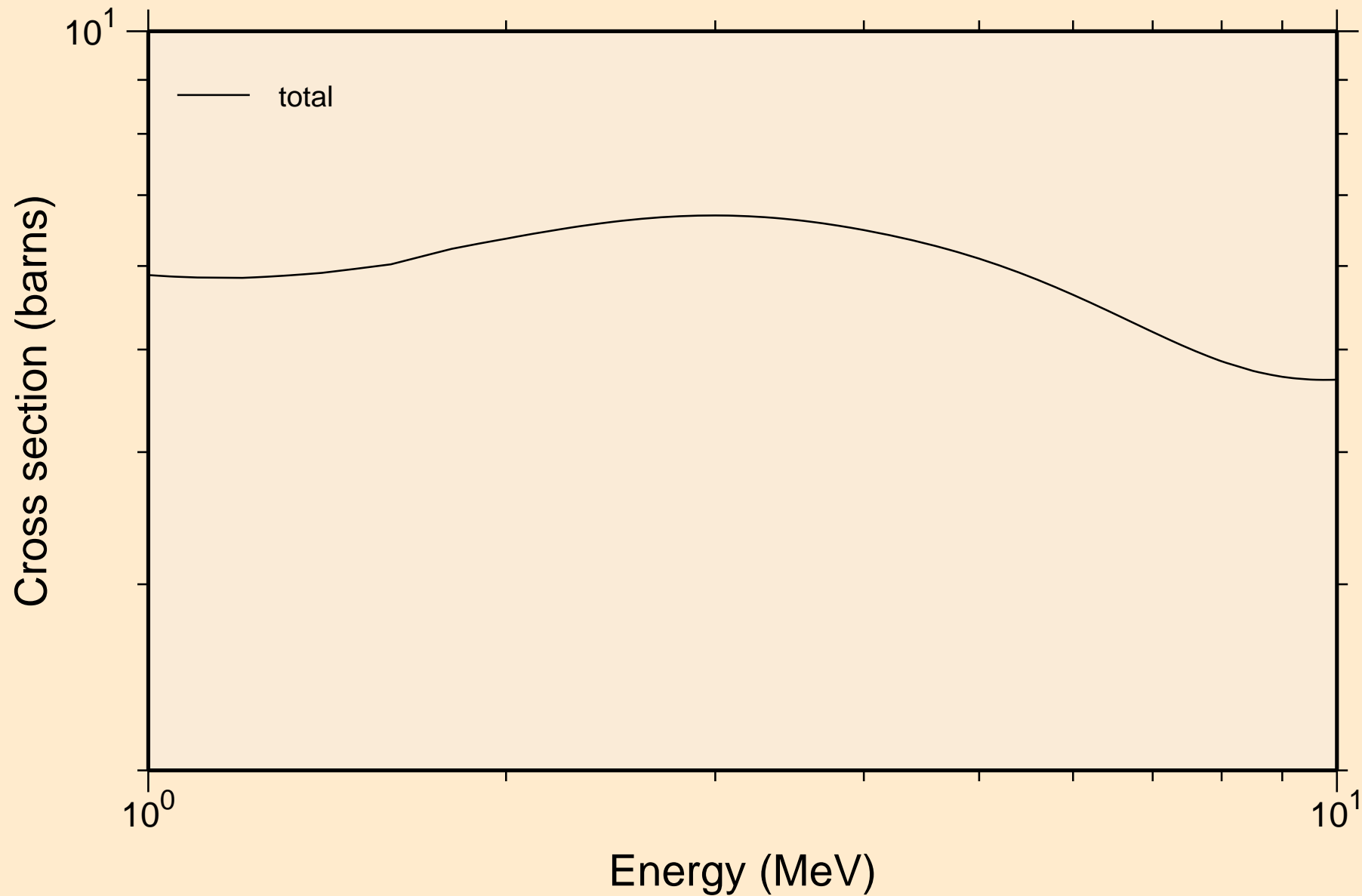
OS177 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
resonance total cross section



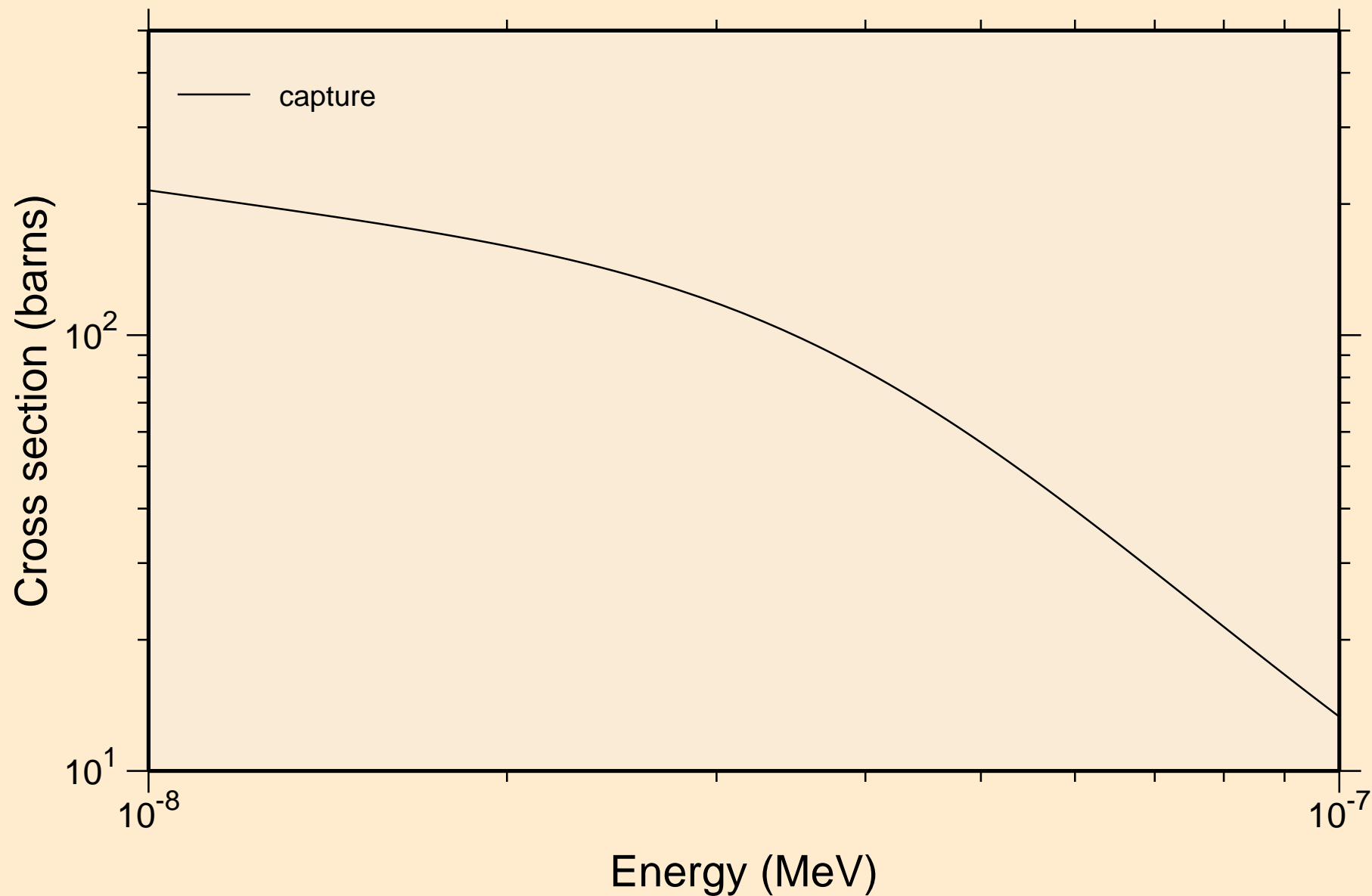
OS177 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
resonance total cross section



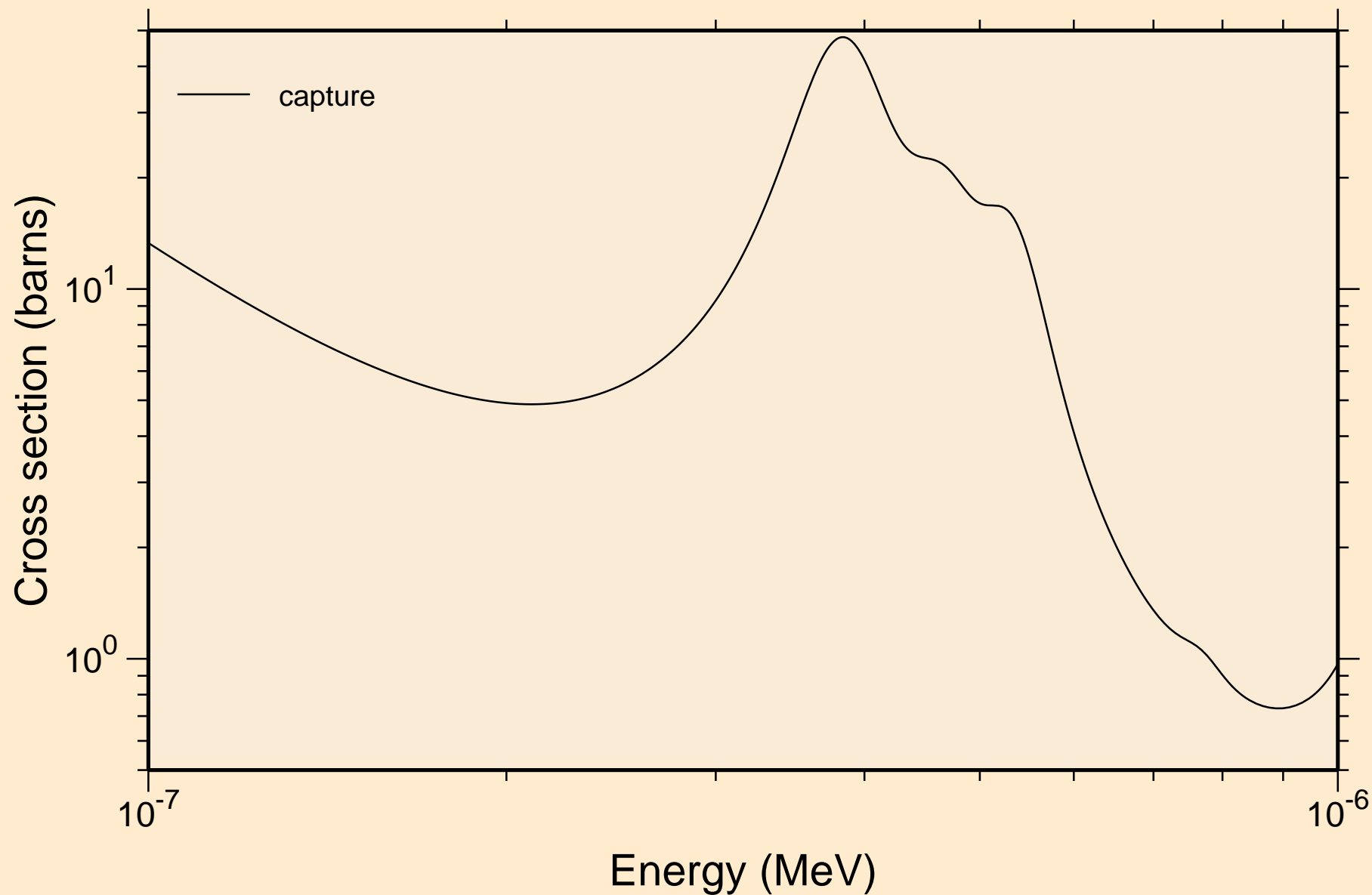
OS177 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
resonance total cross section



OS177 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
resonance absorption cross sections

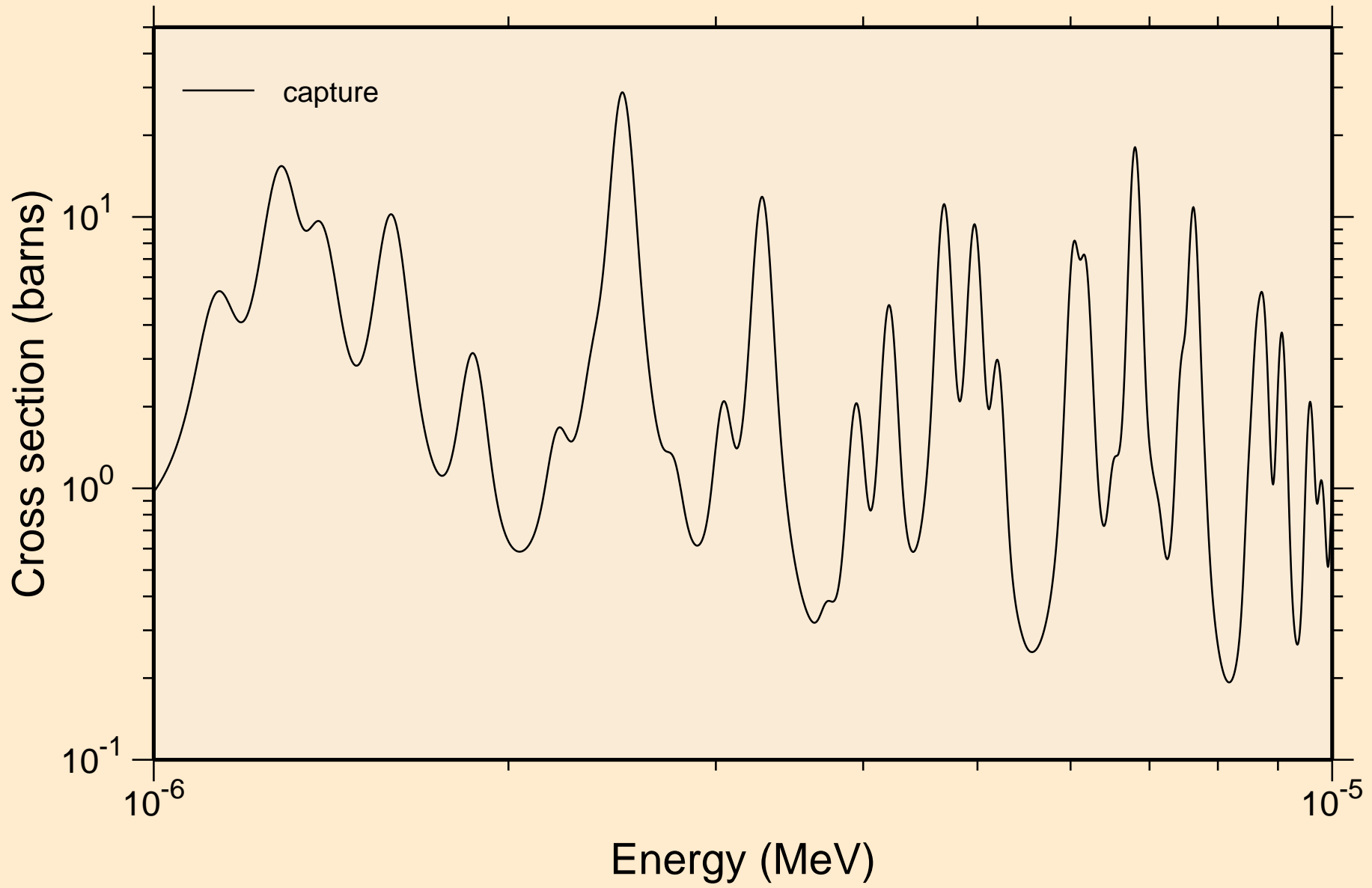


OS177 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
resonance absorption cross sections

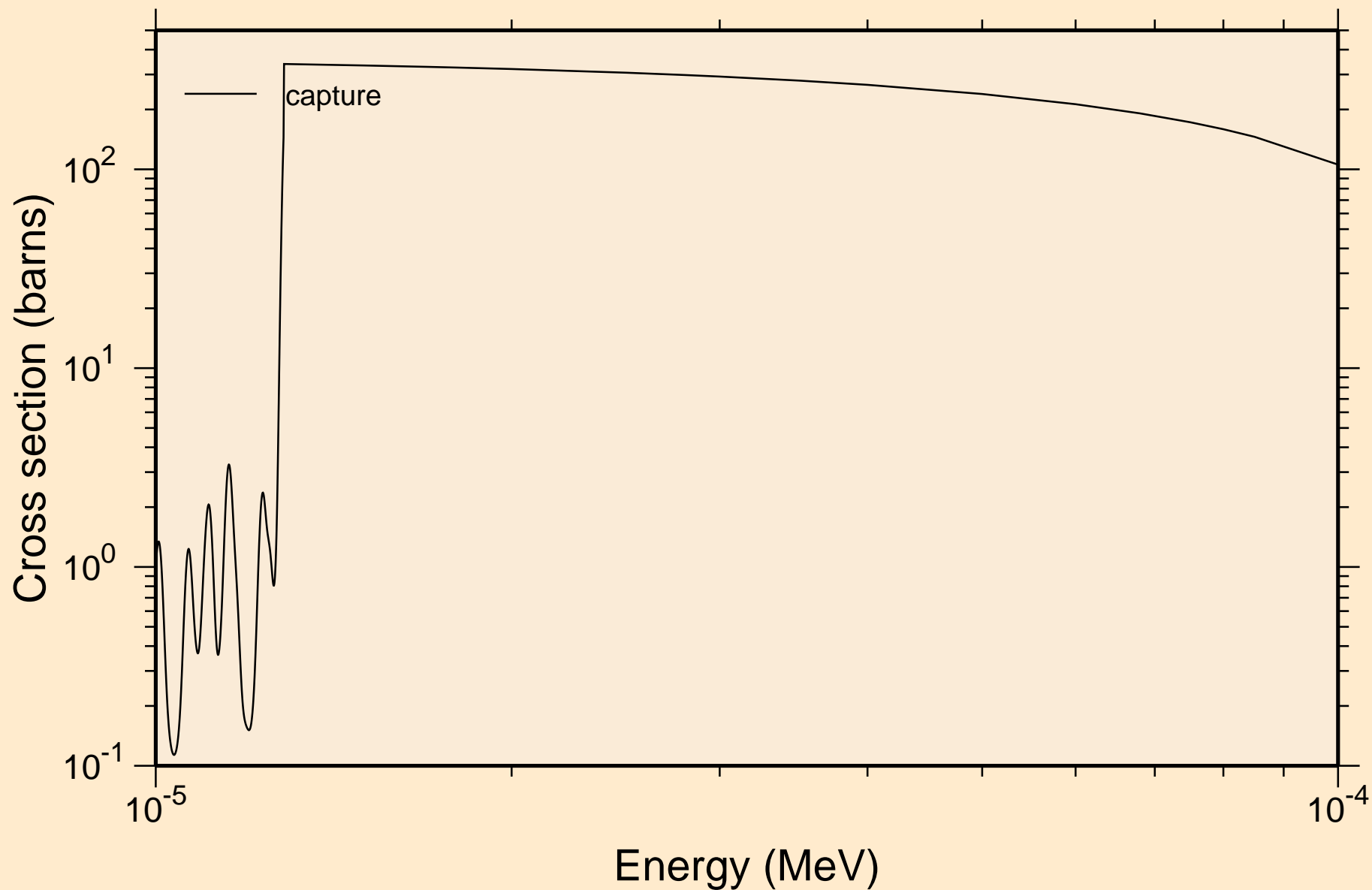




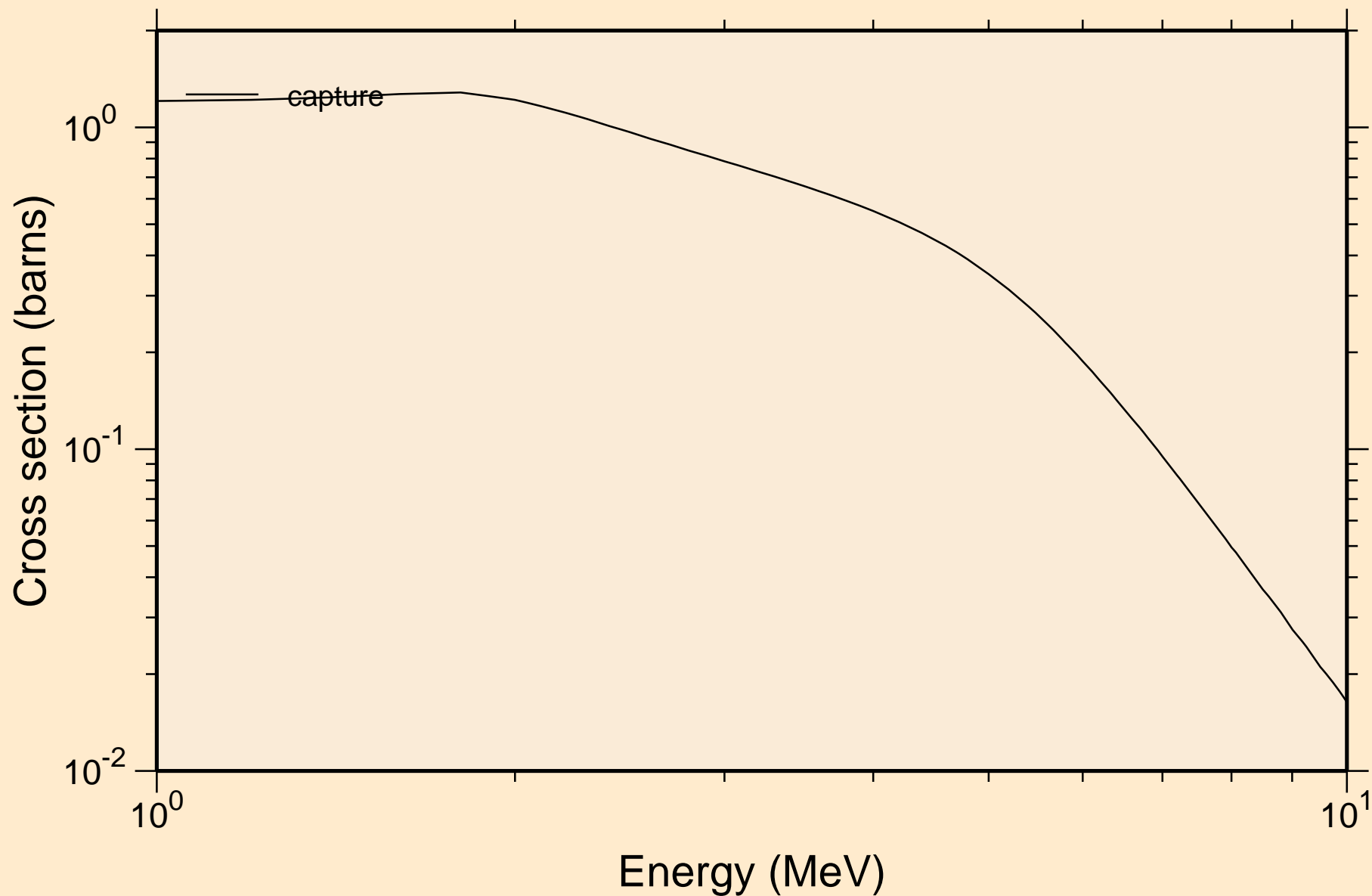
OS177 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
resonance absorption cross sections



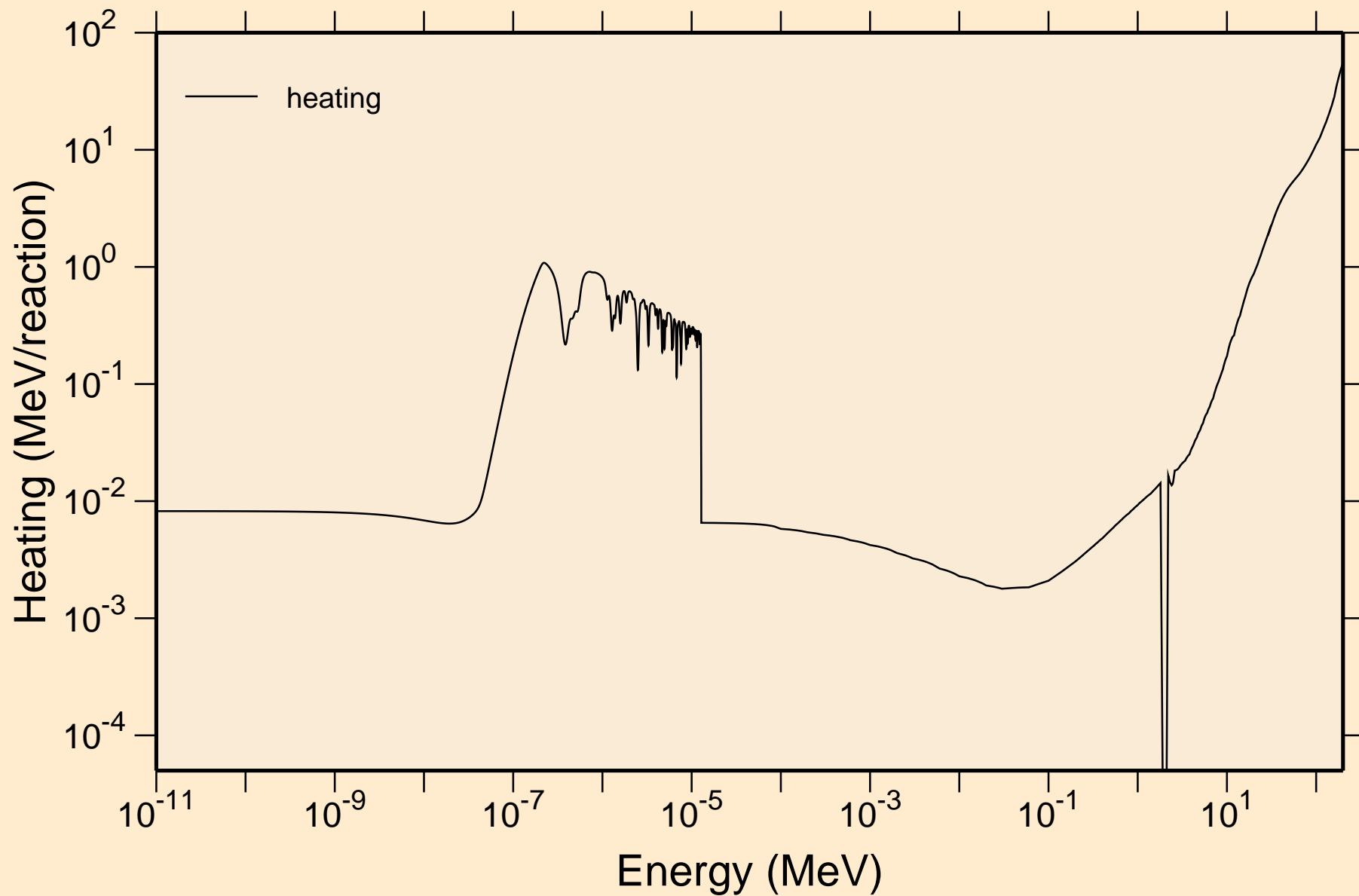
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resonance absorption cross sections



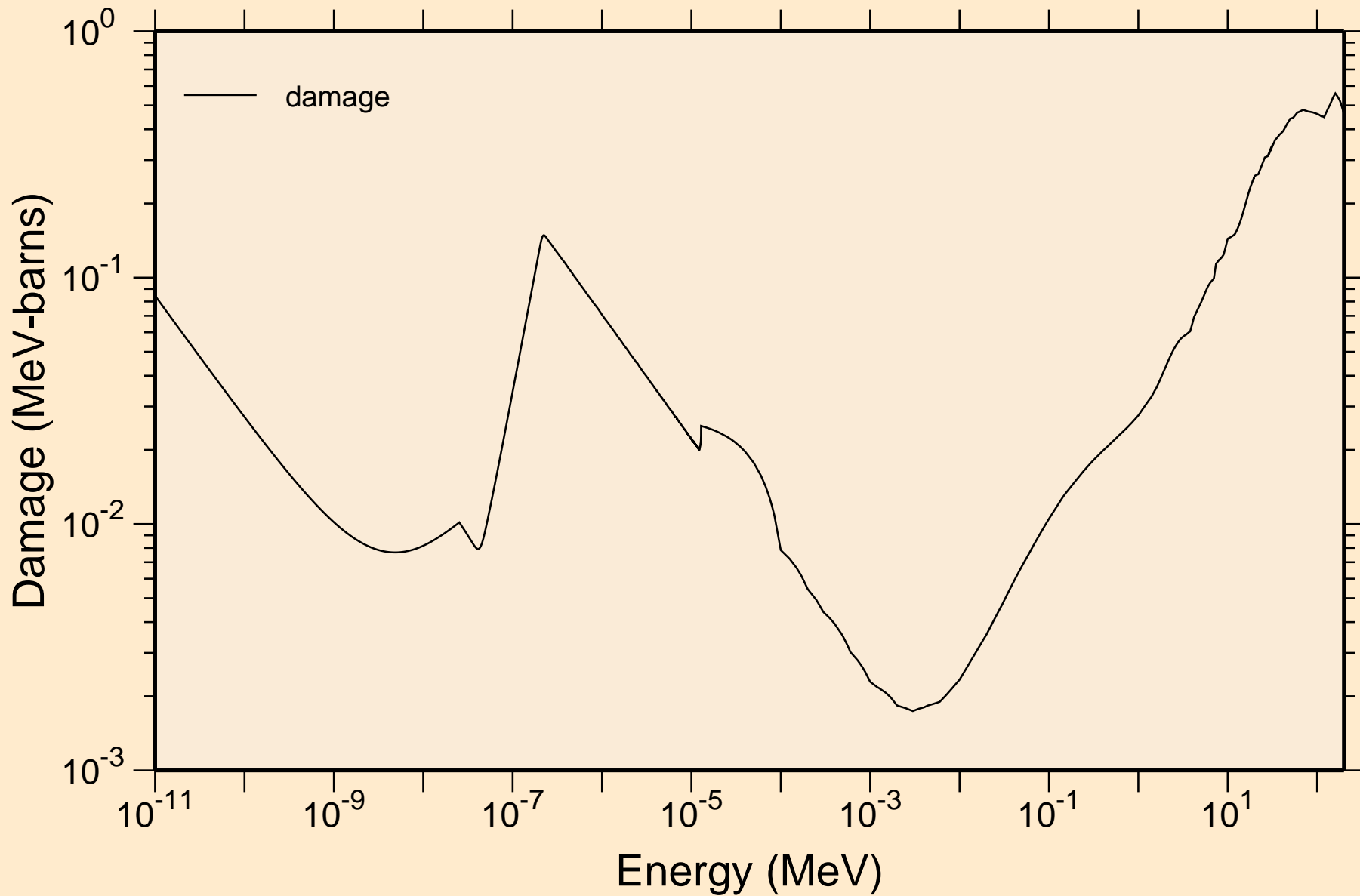
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resonance absorption cross sections



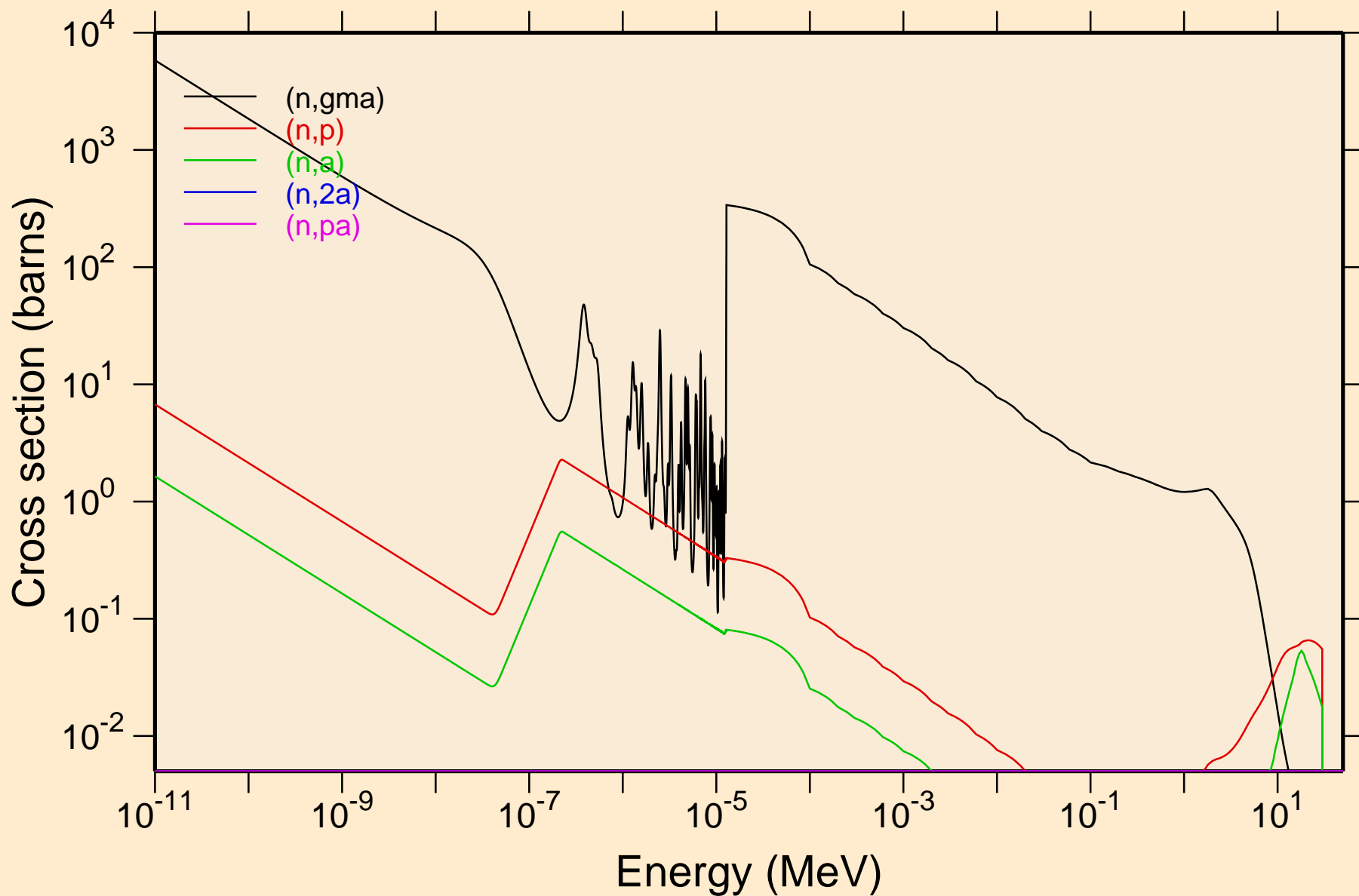
OS177 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Heating



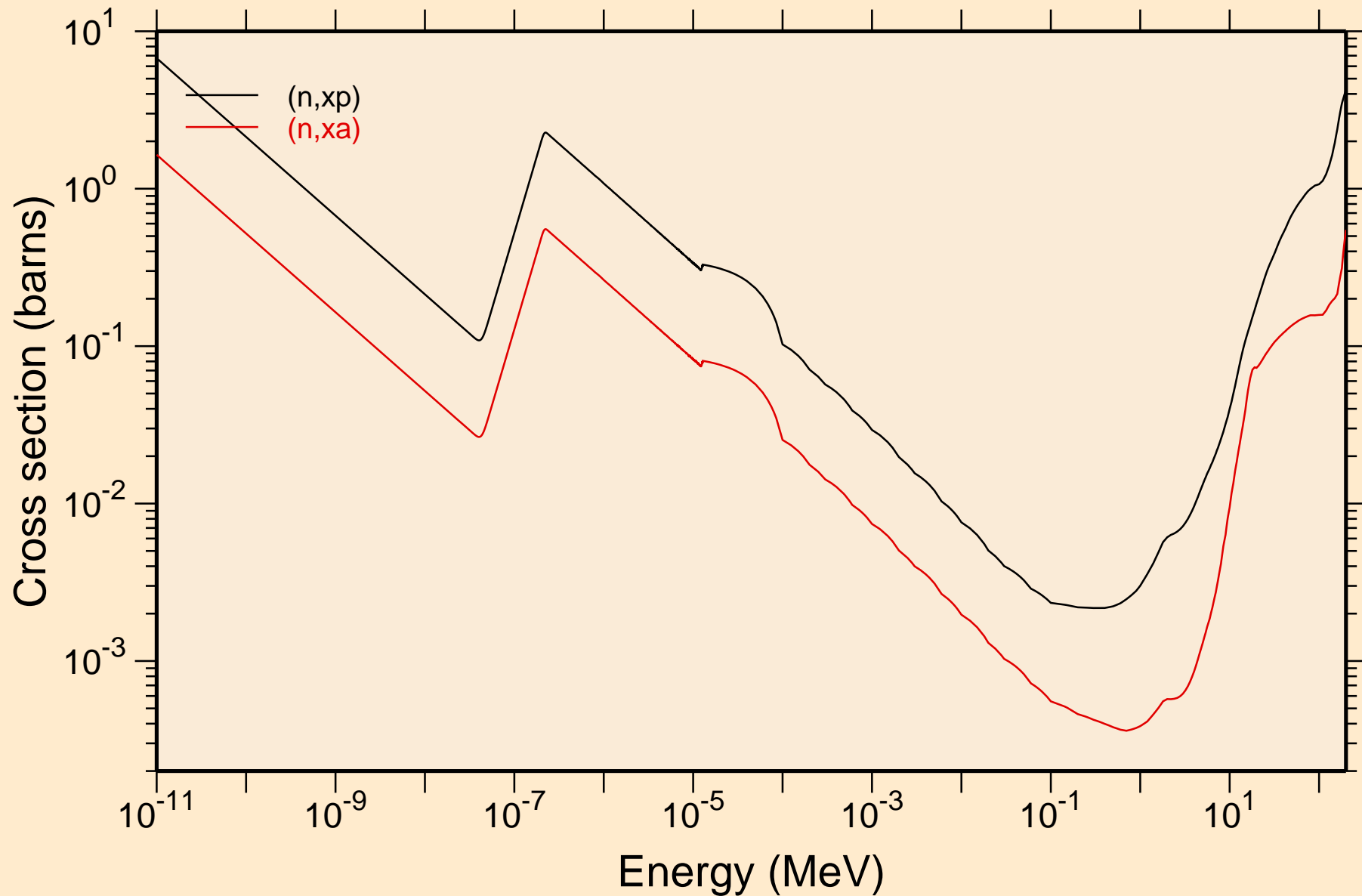
OS177 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Damage



OS177 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Non-threshold reactions

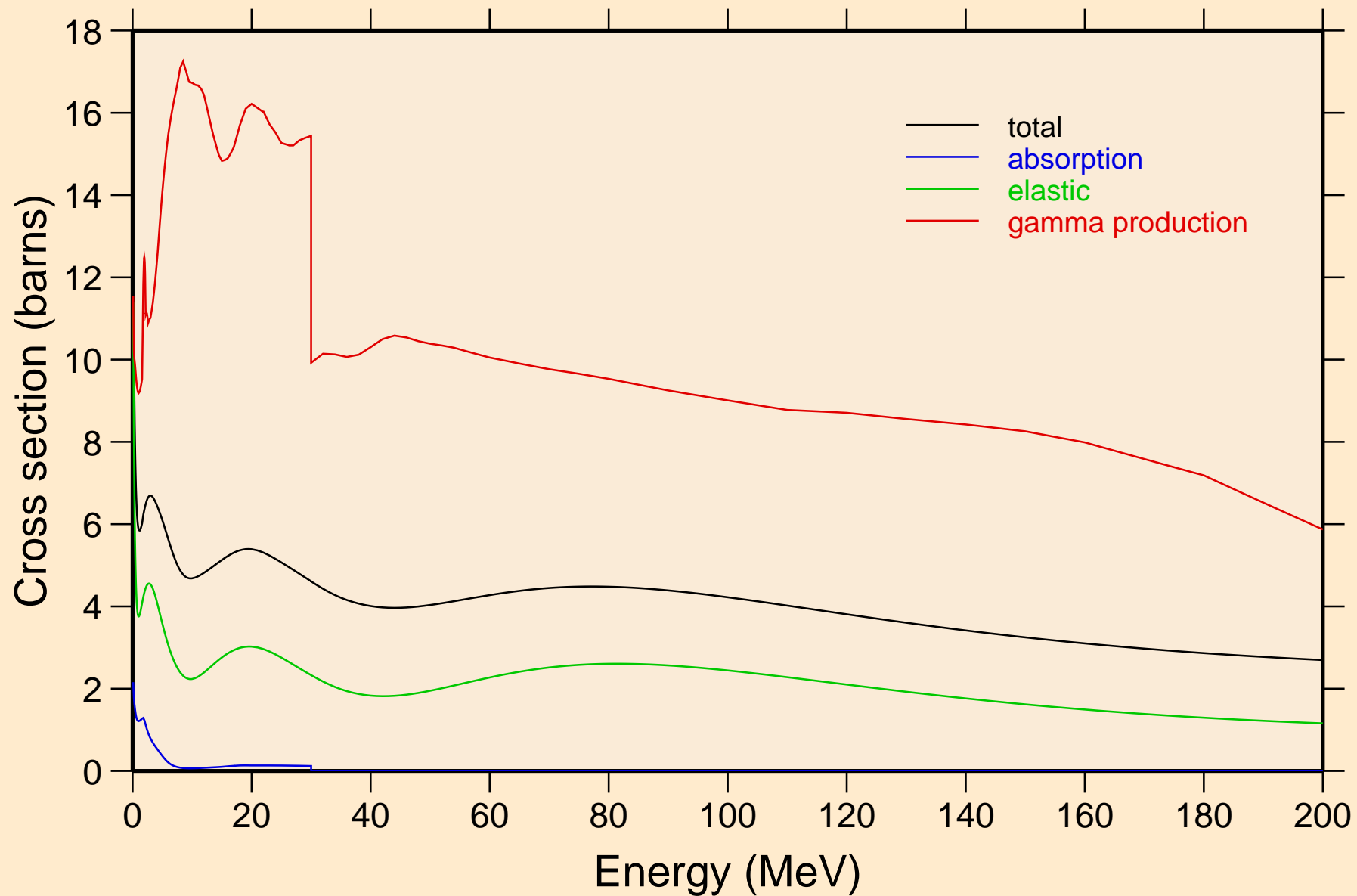


OS177 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Non-threshold reactions



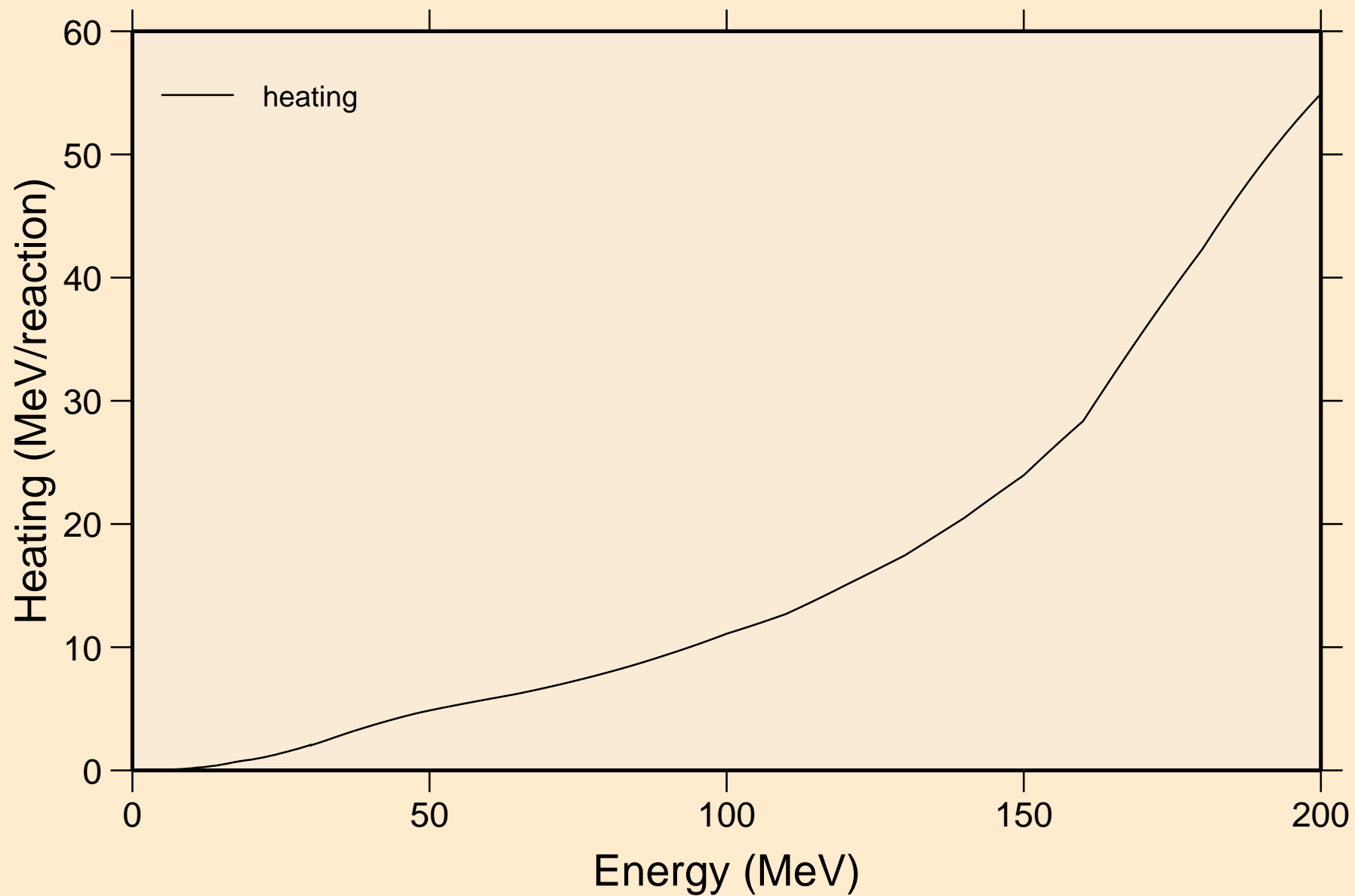
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## Principal cross sections

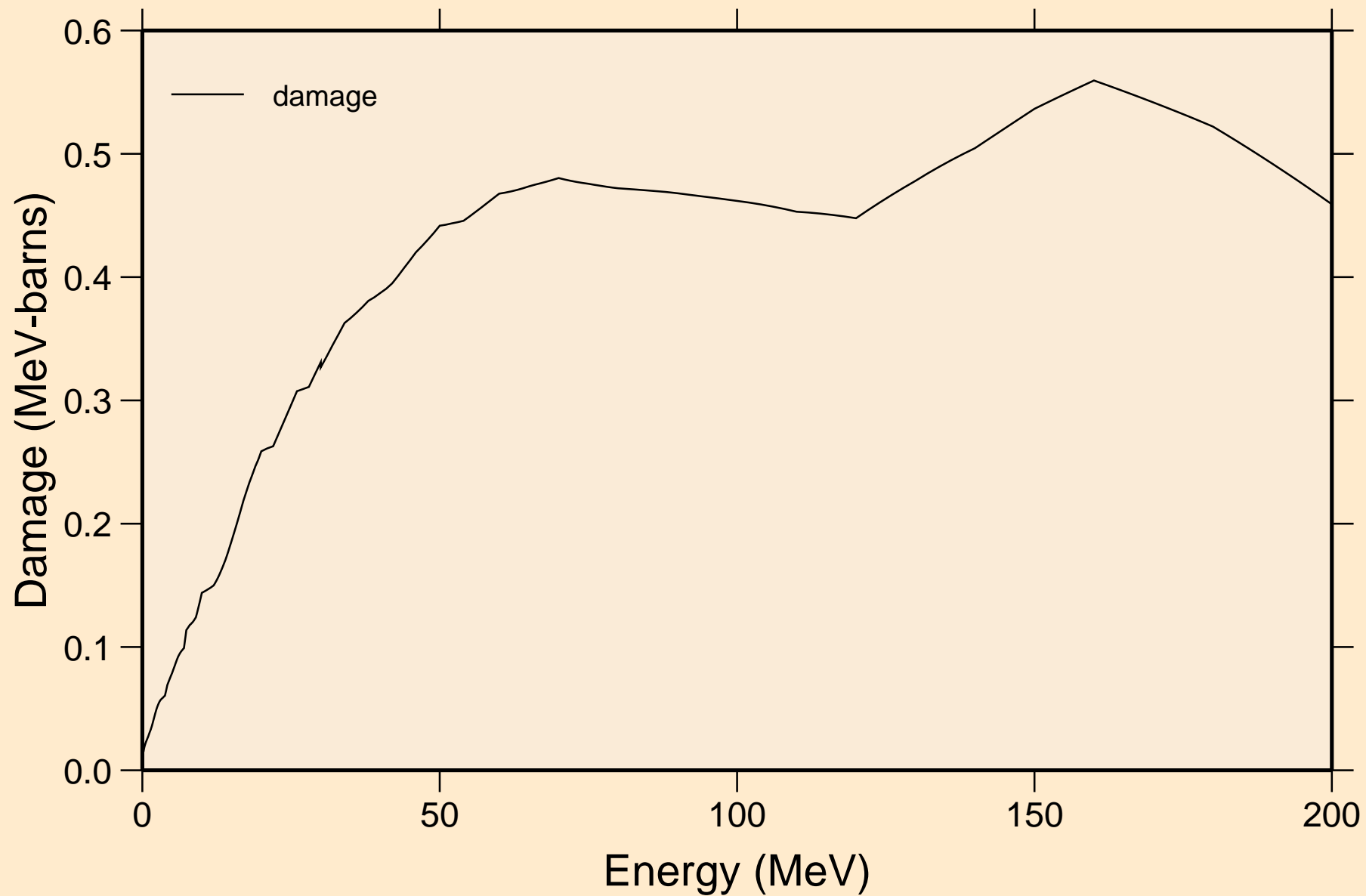




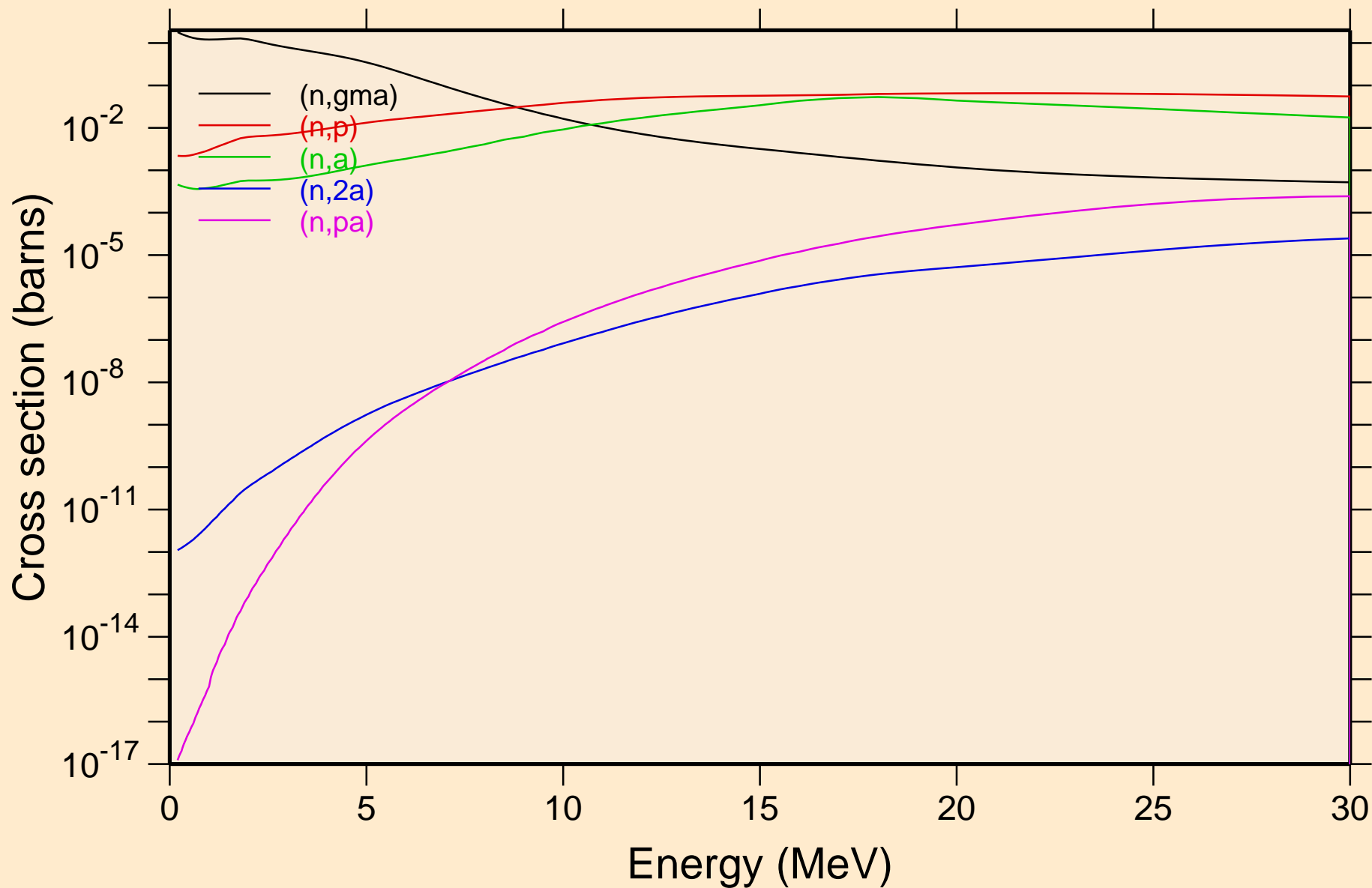
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Heating



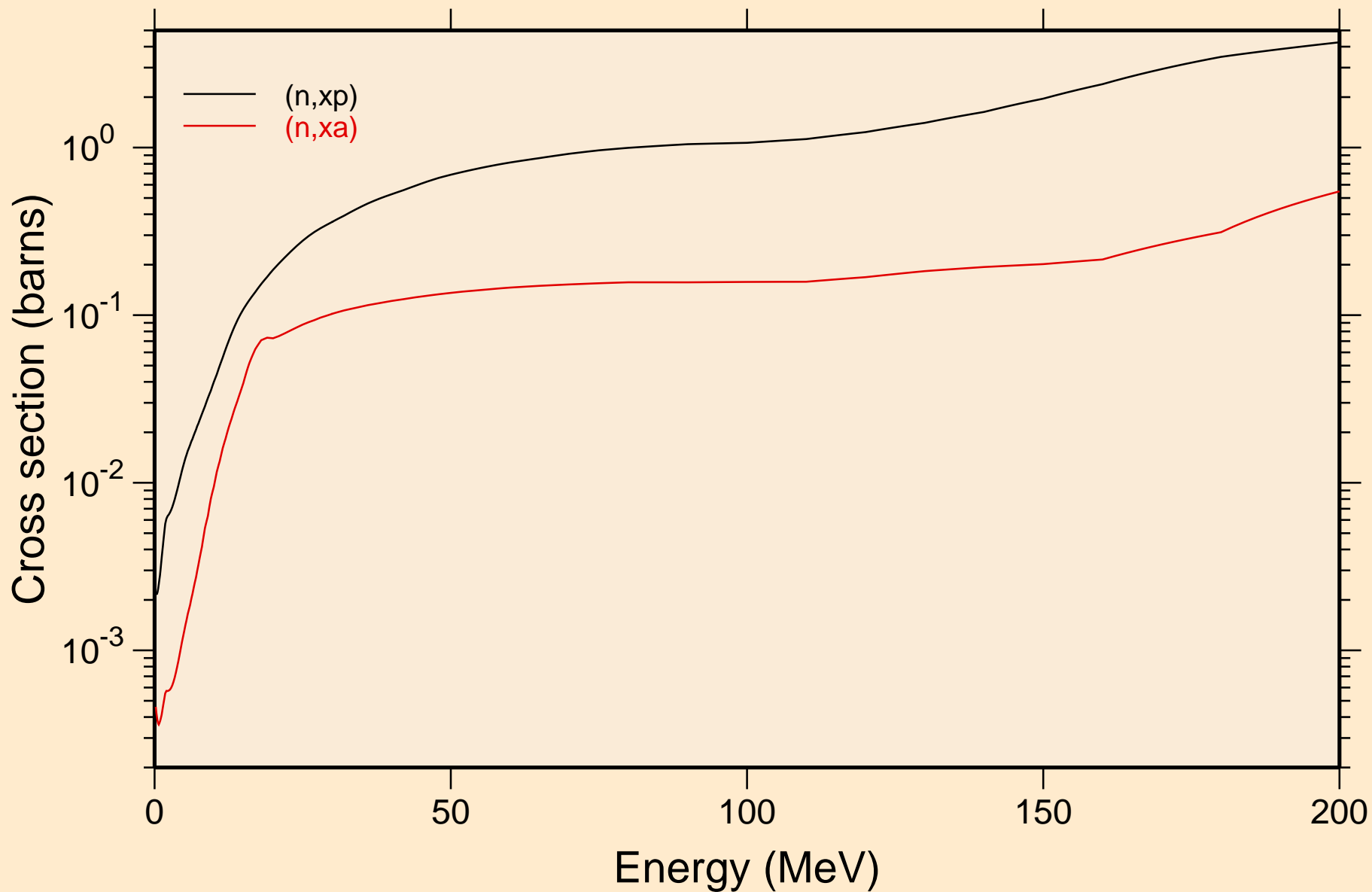
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Damage



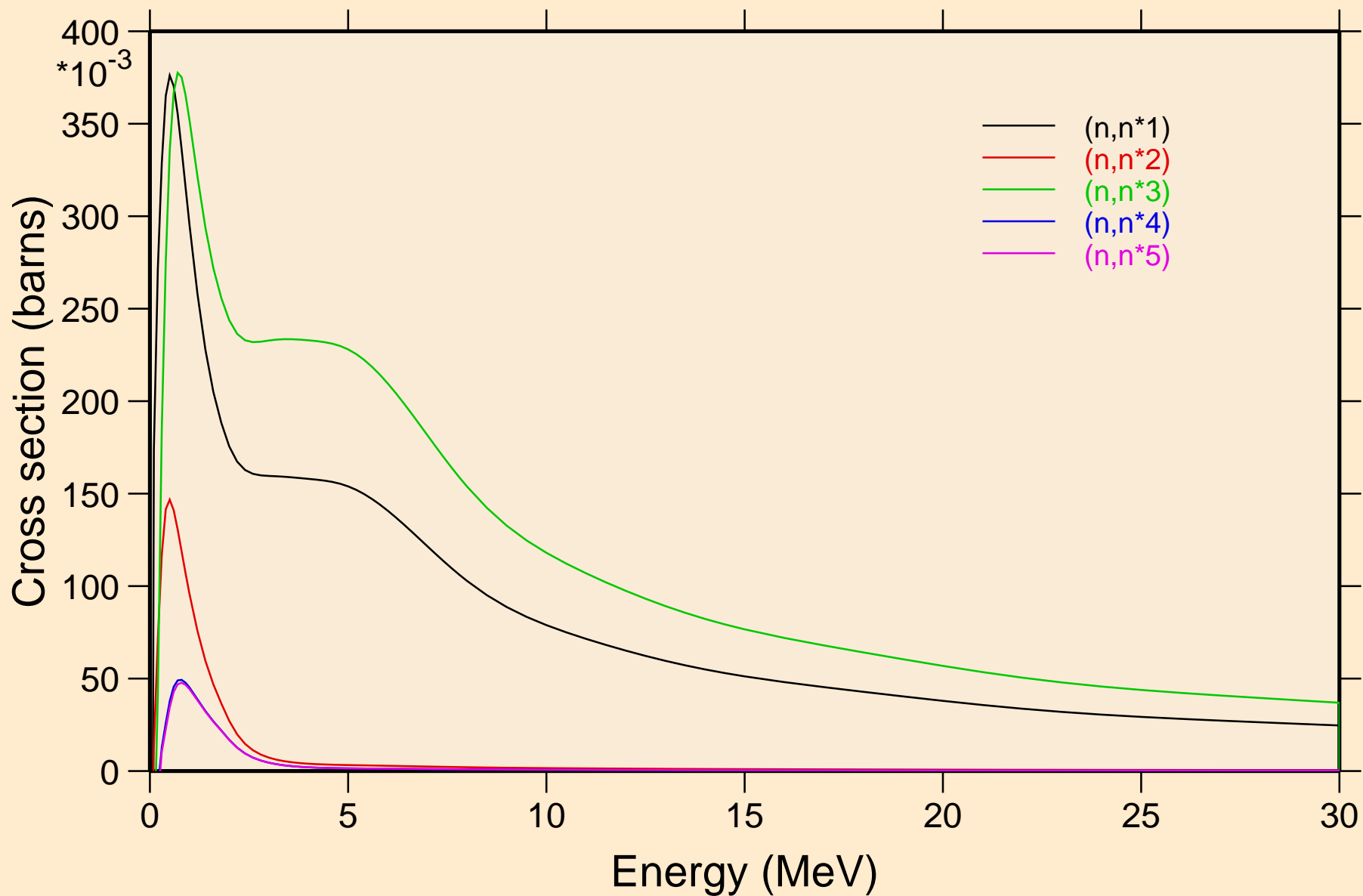
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Non-threshold reactions



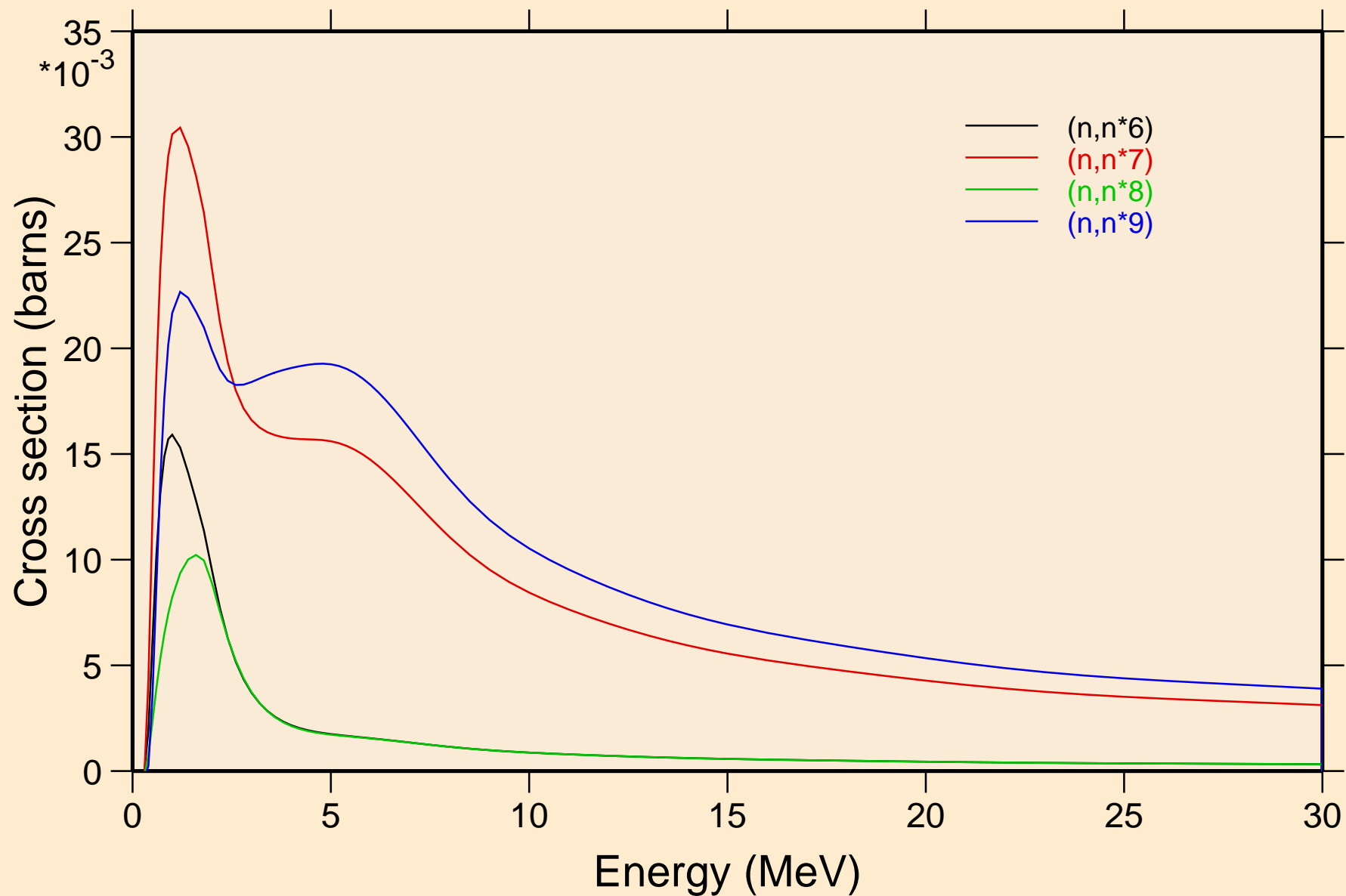
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Non-threshold reactions



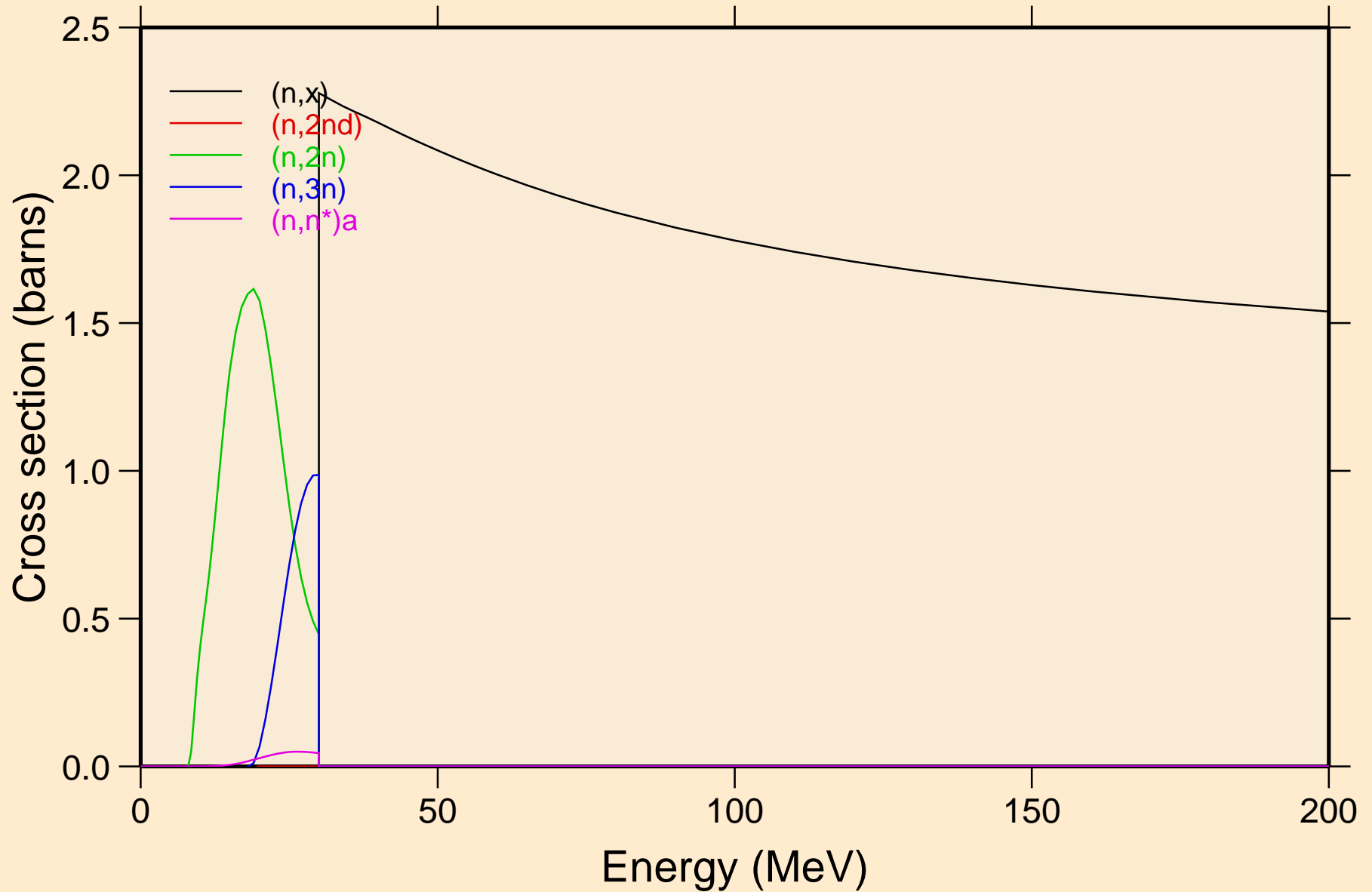
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Inelastic levels



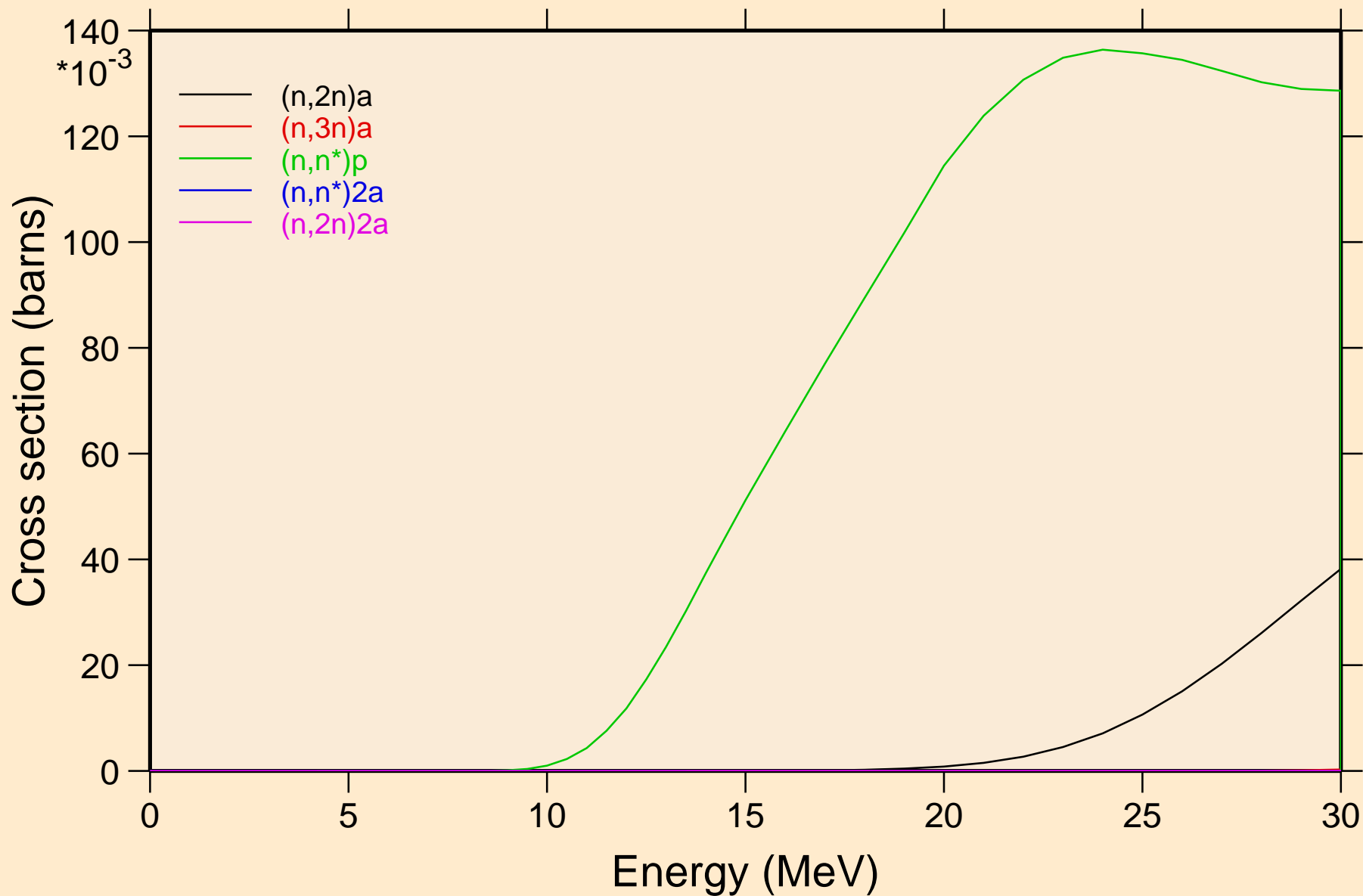
OS177 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Inelastic levels



OS177 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Threshold reactions



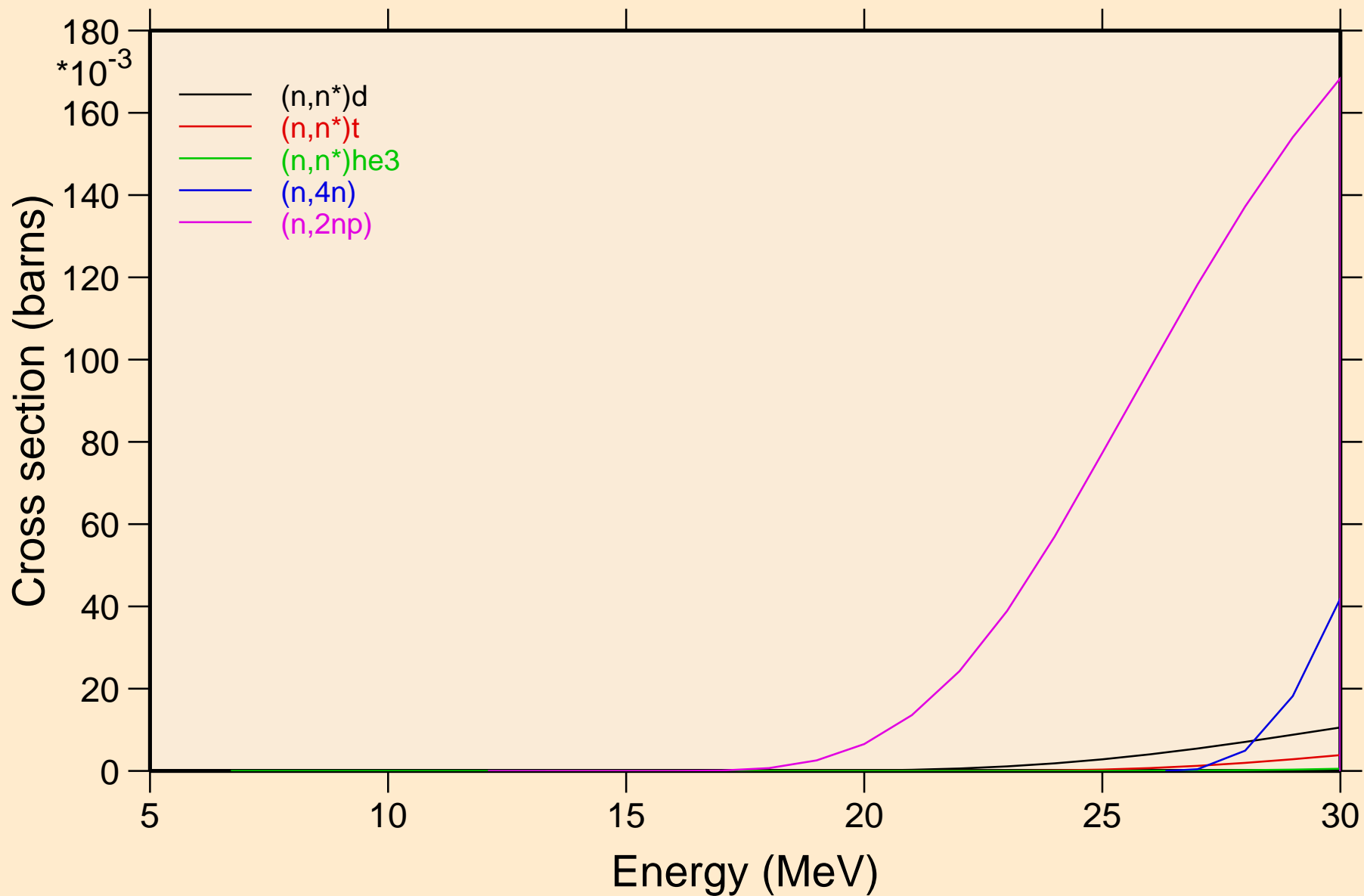
OS177 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Threshold reactions



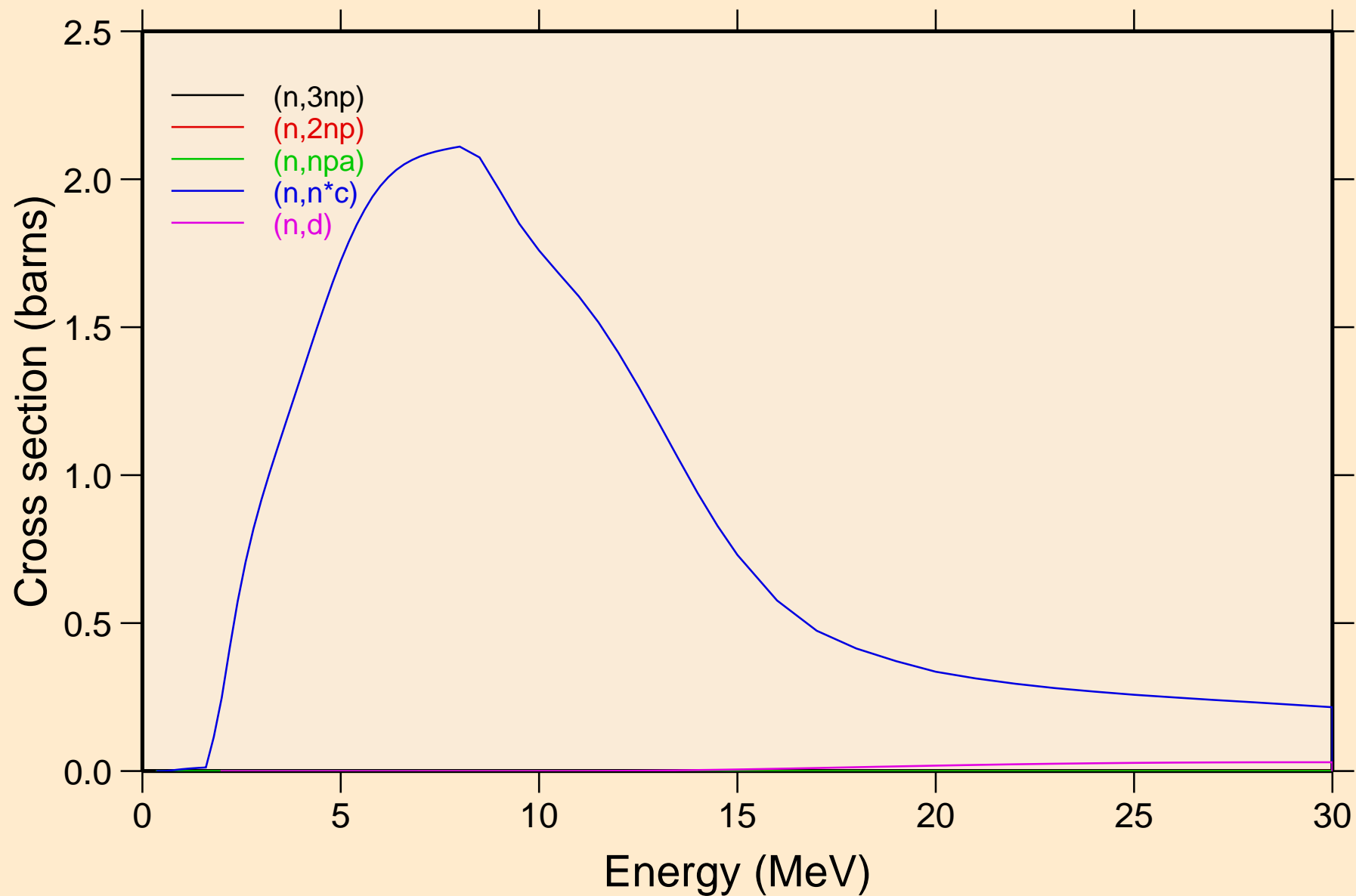


# OS177 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K

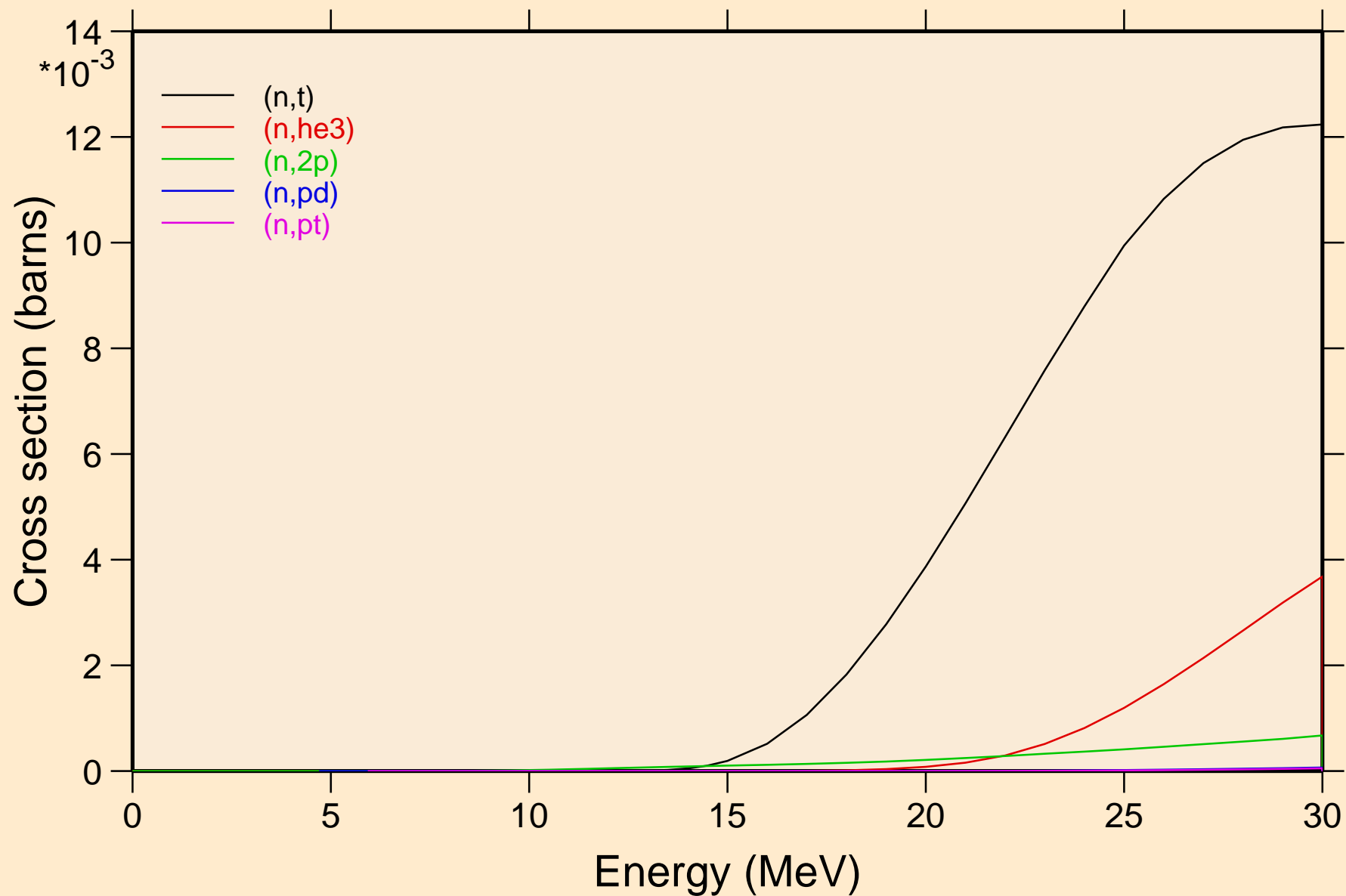
## Threshold reactions



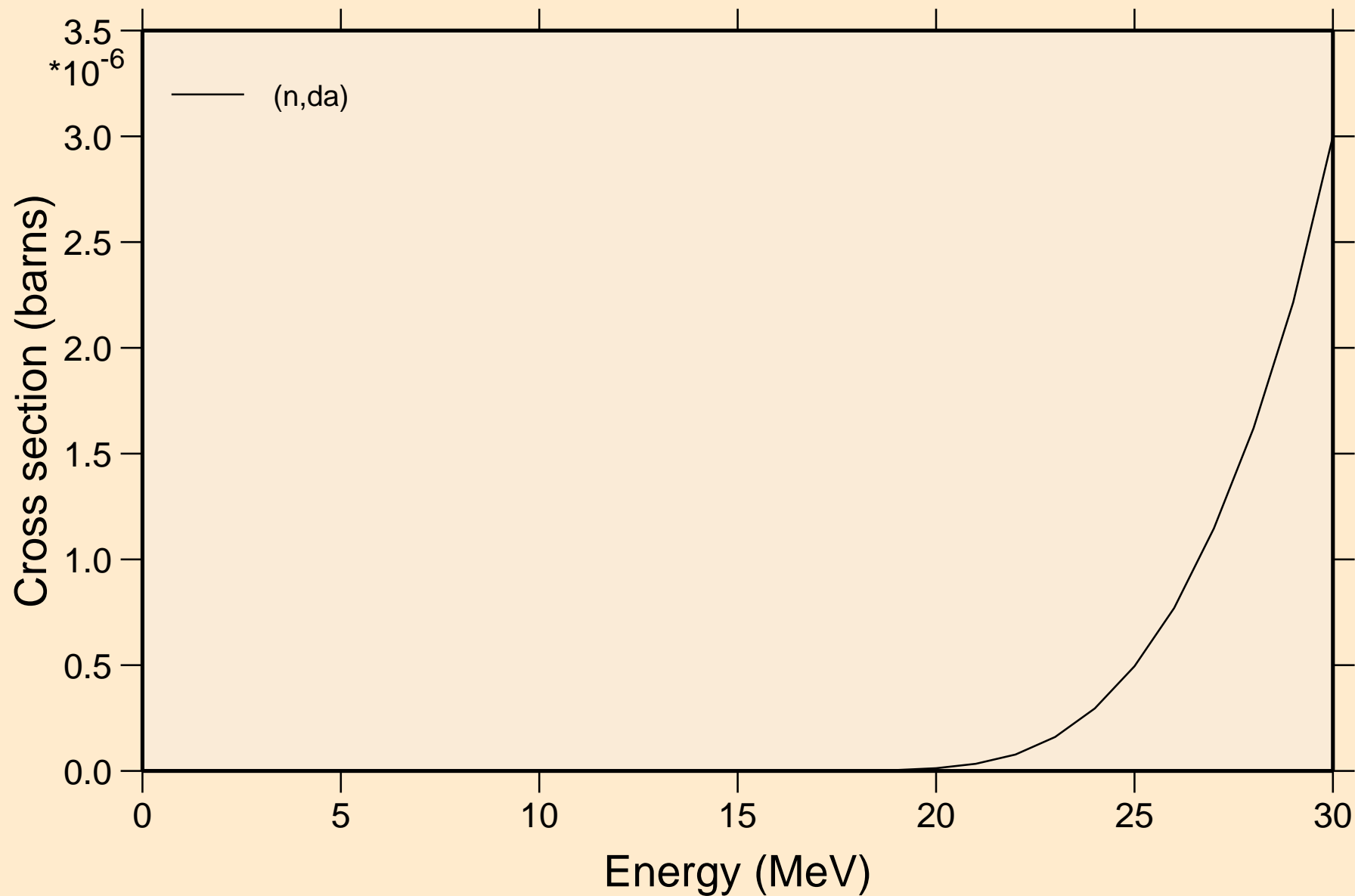
OS177 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Threshold reactions



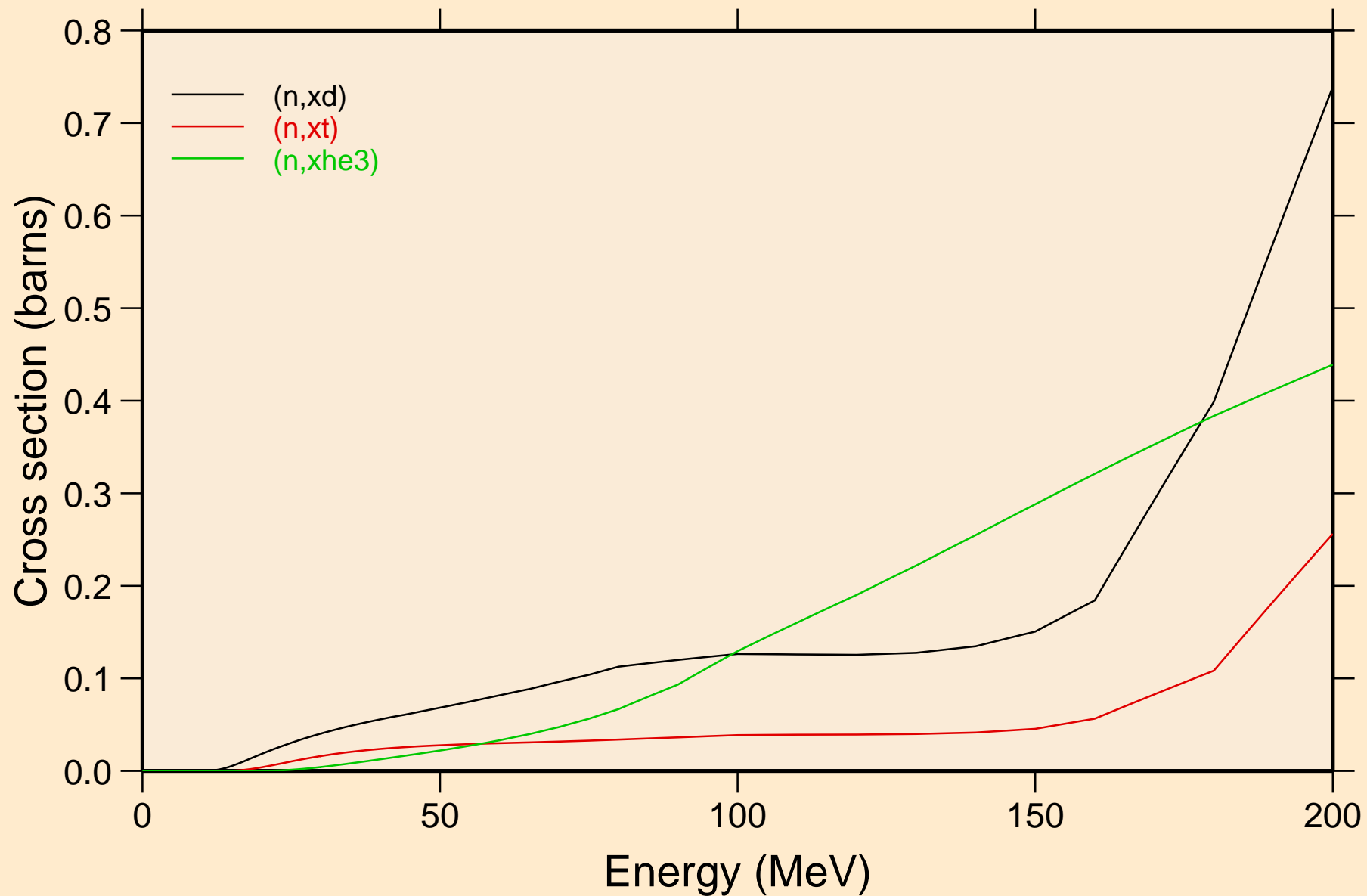
OS177 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Threshold reactions



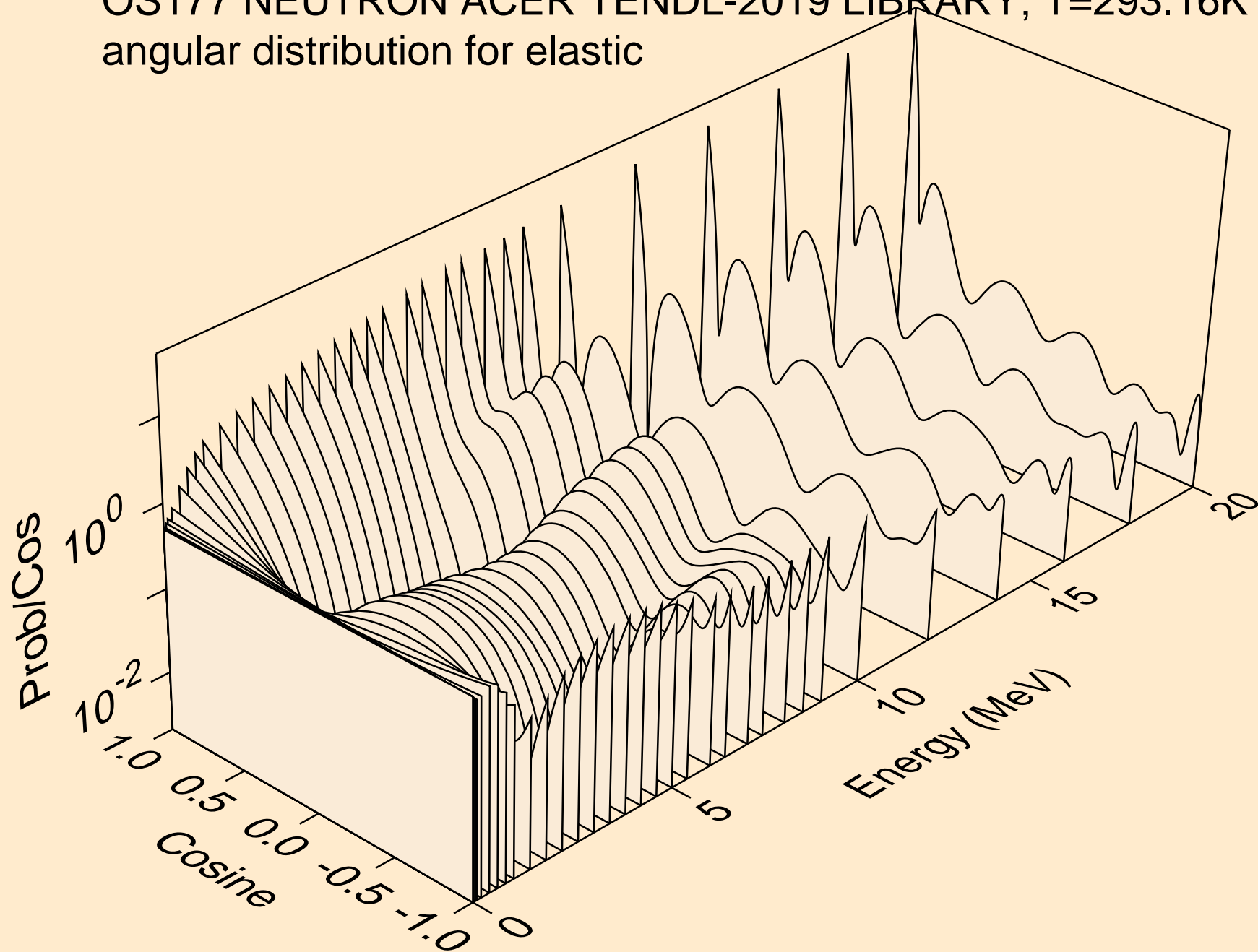
OS177 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Threshold reactions



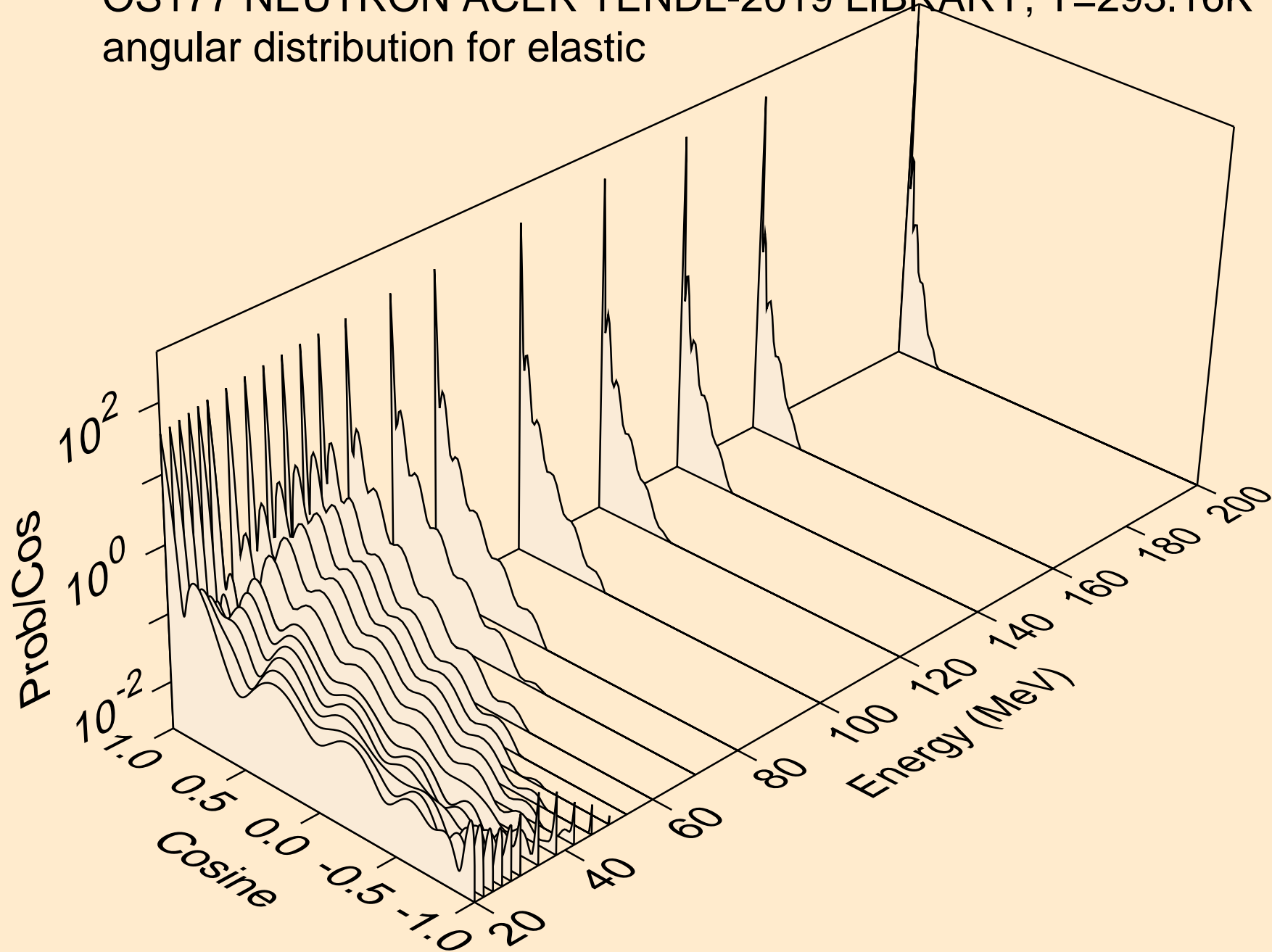
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Threshold reactions



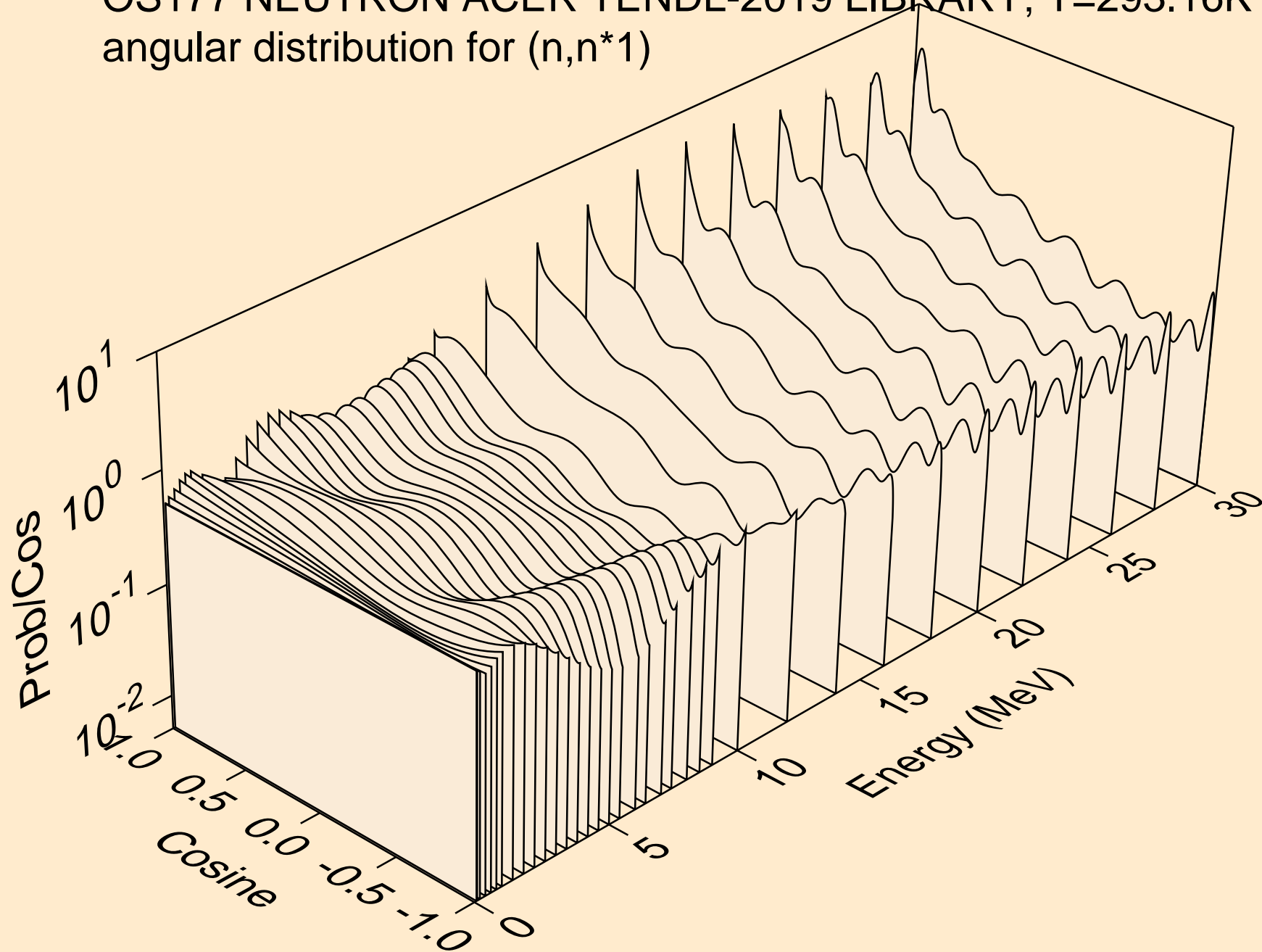
OS177 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for elastic



OS177 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for elastic

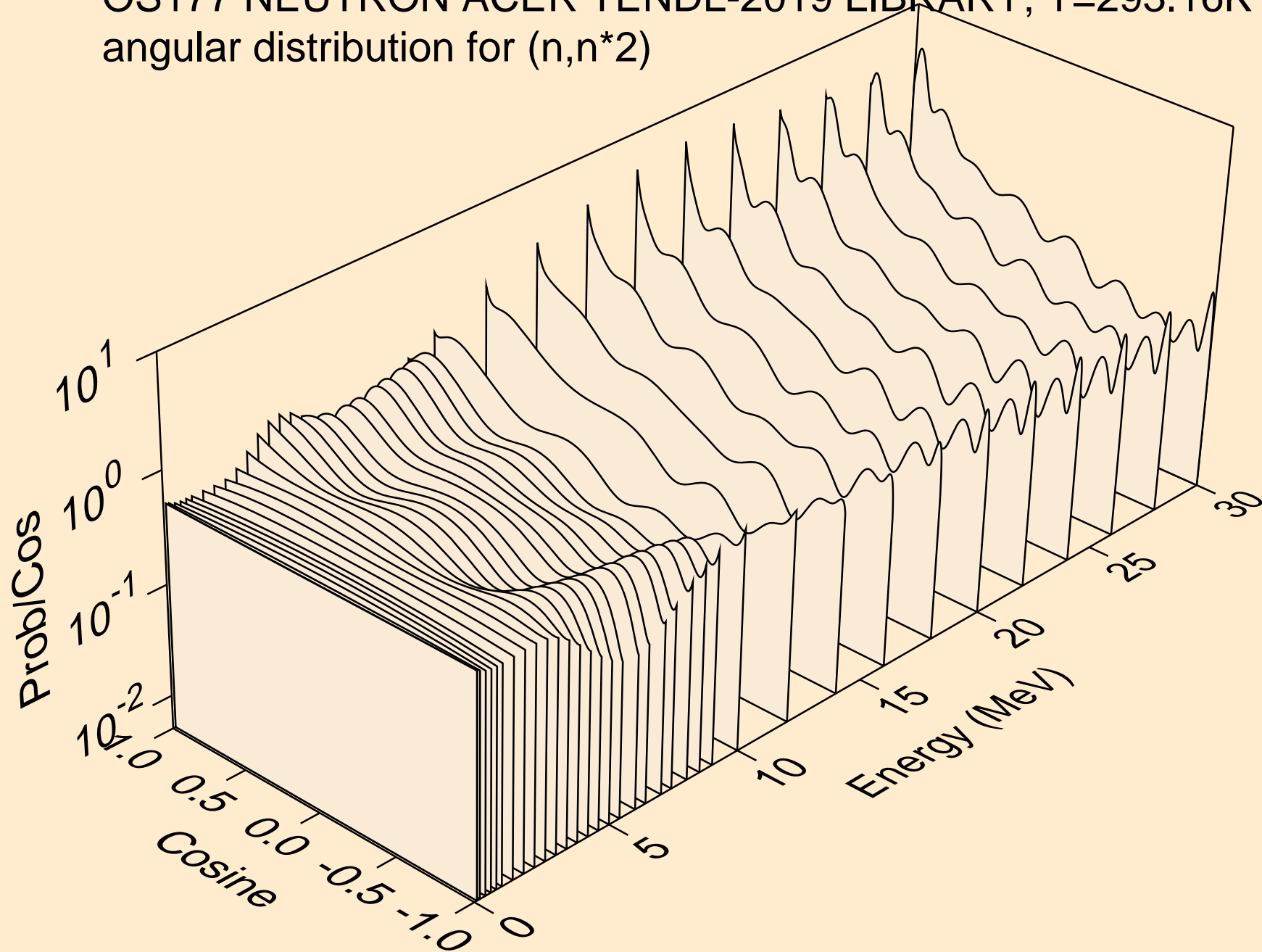


OS177 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*1)

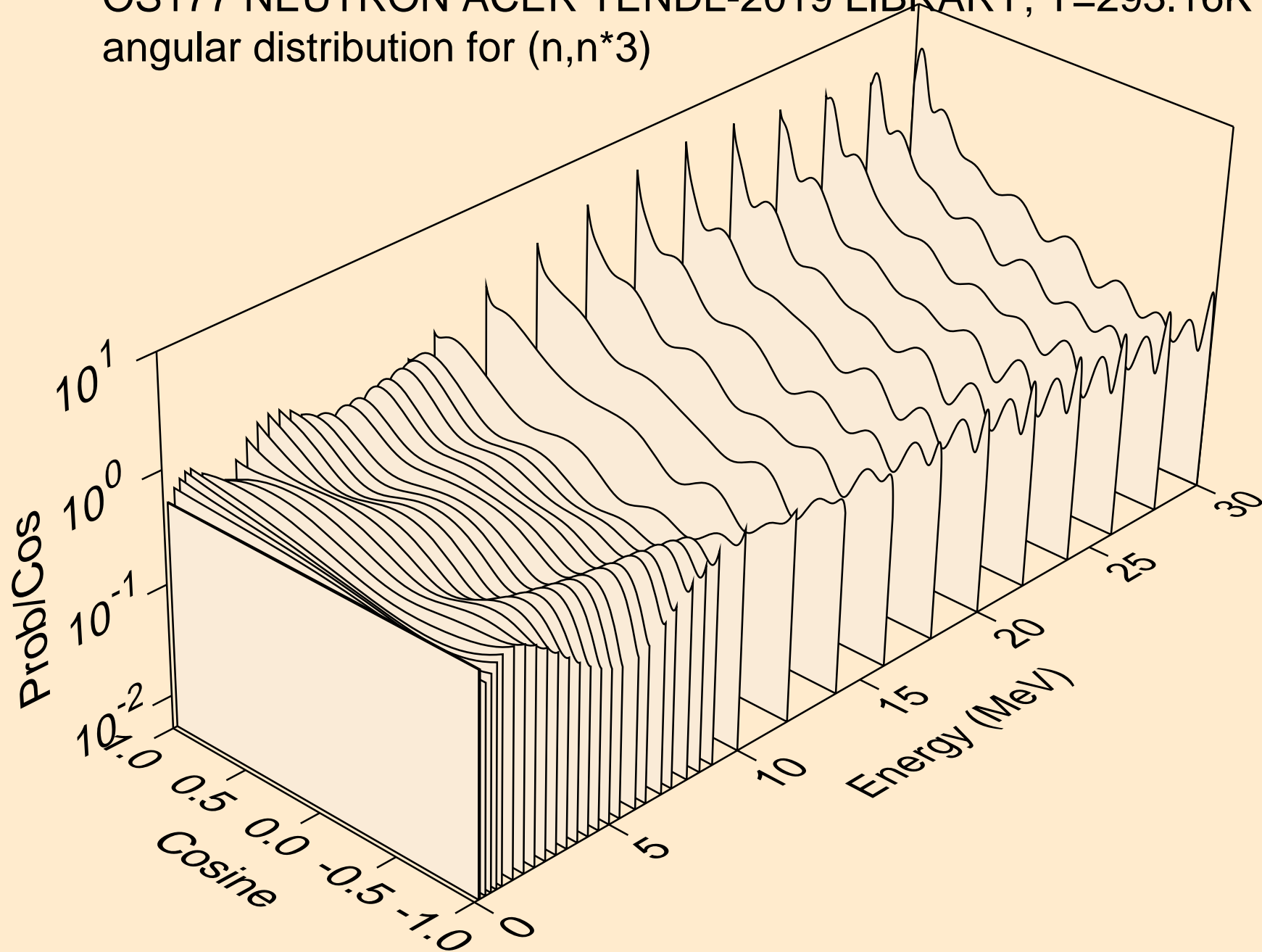




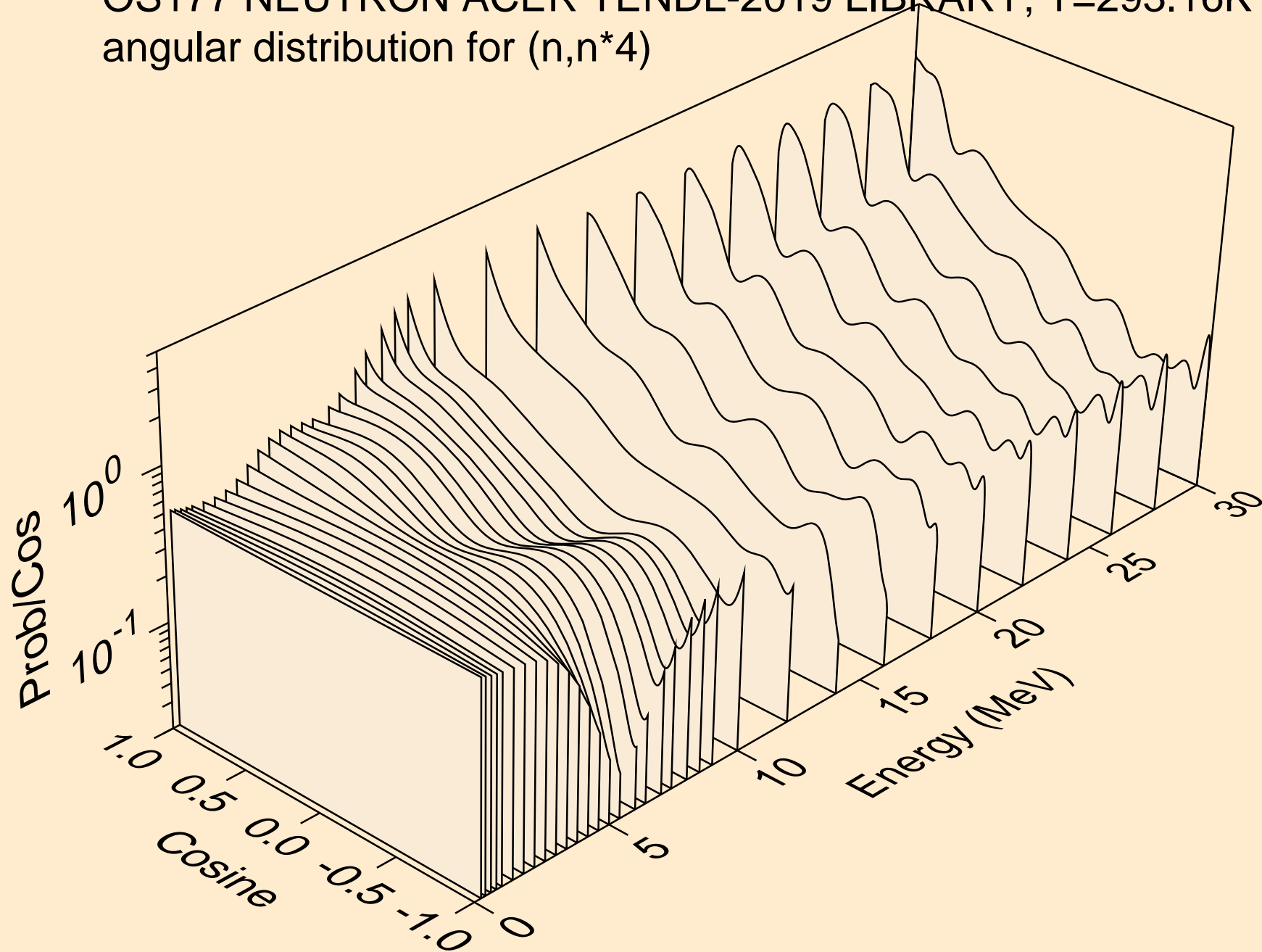
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angular distribution for (n,n\*2)



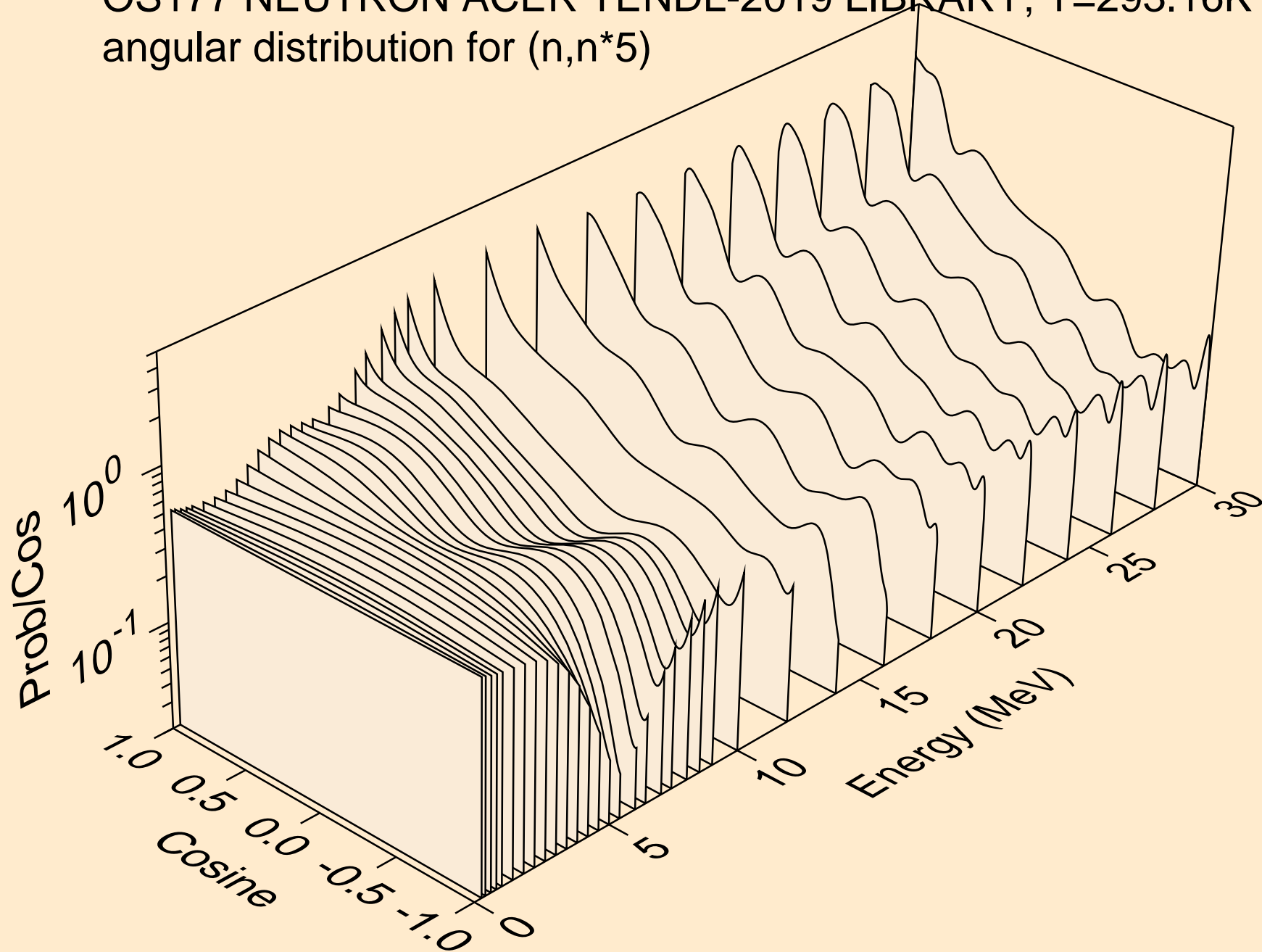
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angular distribution for (n,n\*3)



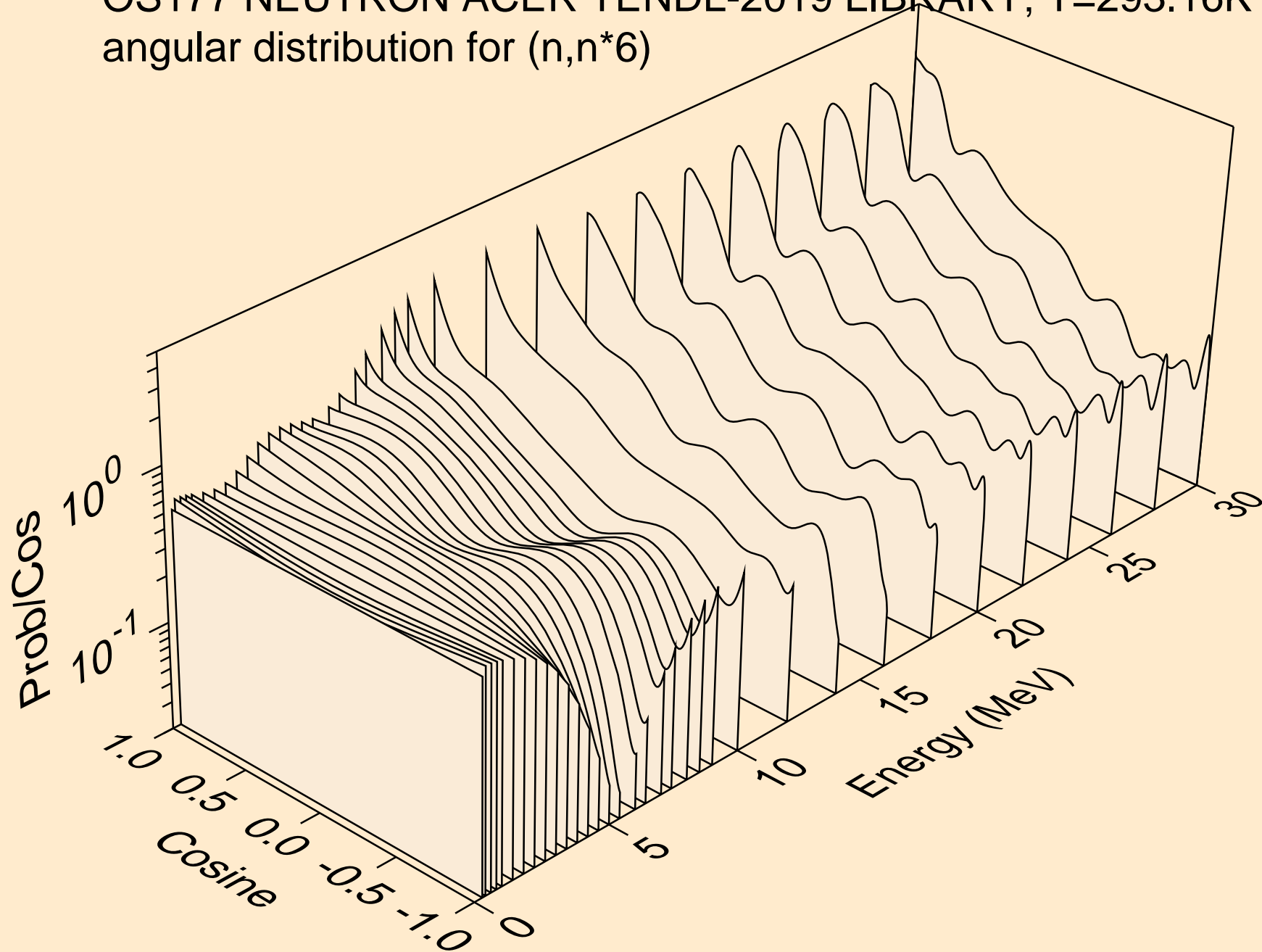
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angular distribution for (n,n\*4)



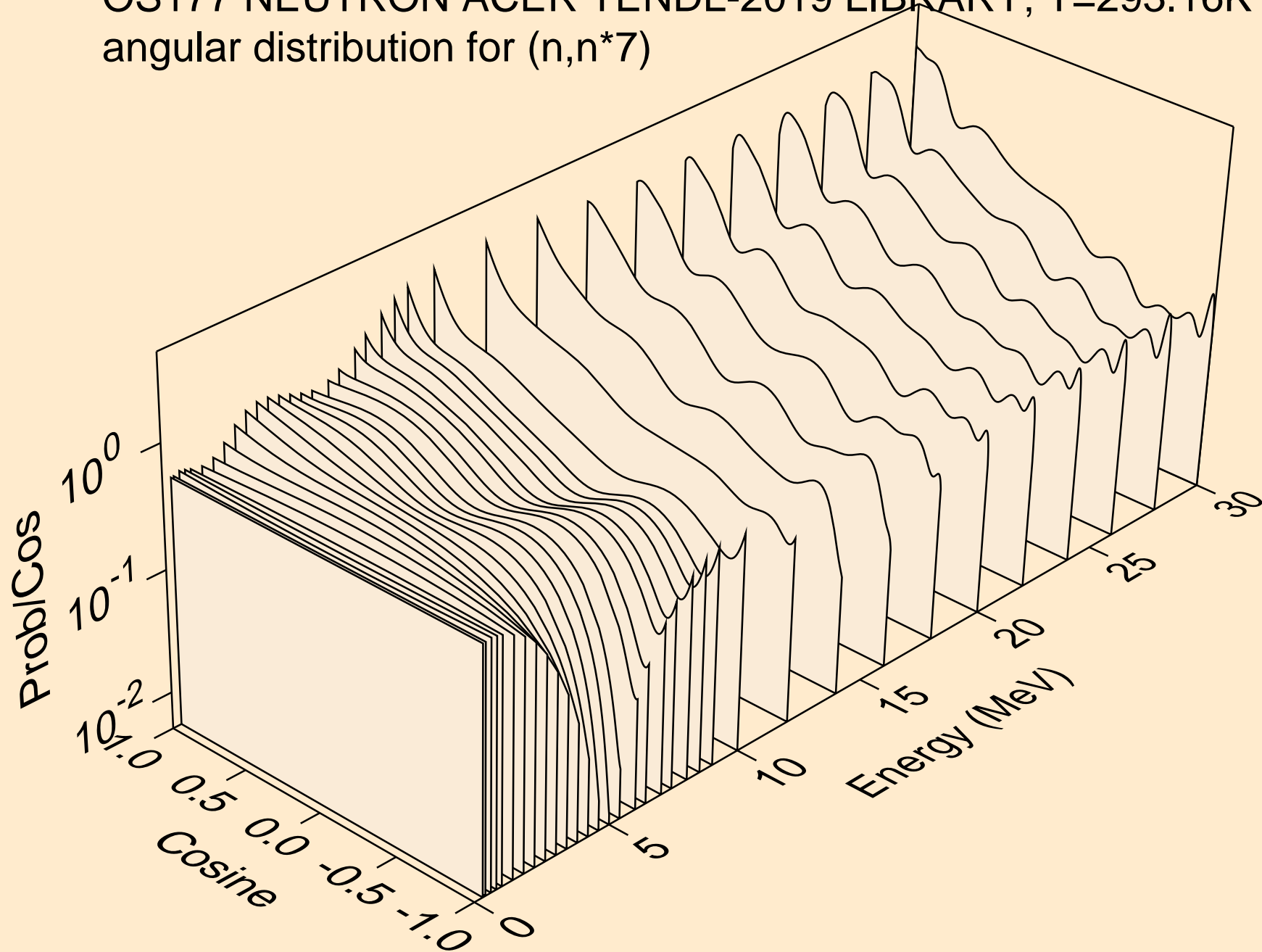
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angular distribution for (n,n\*5)



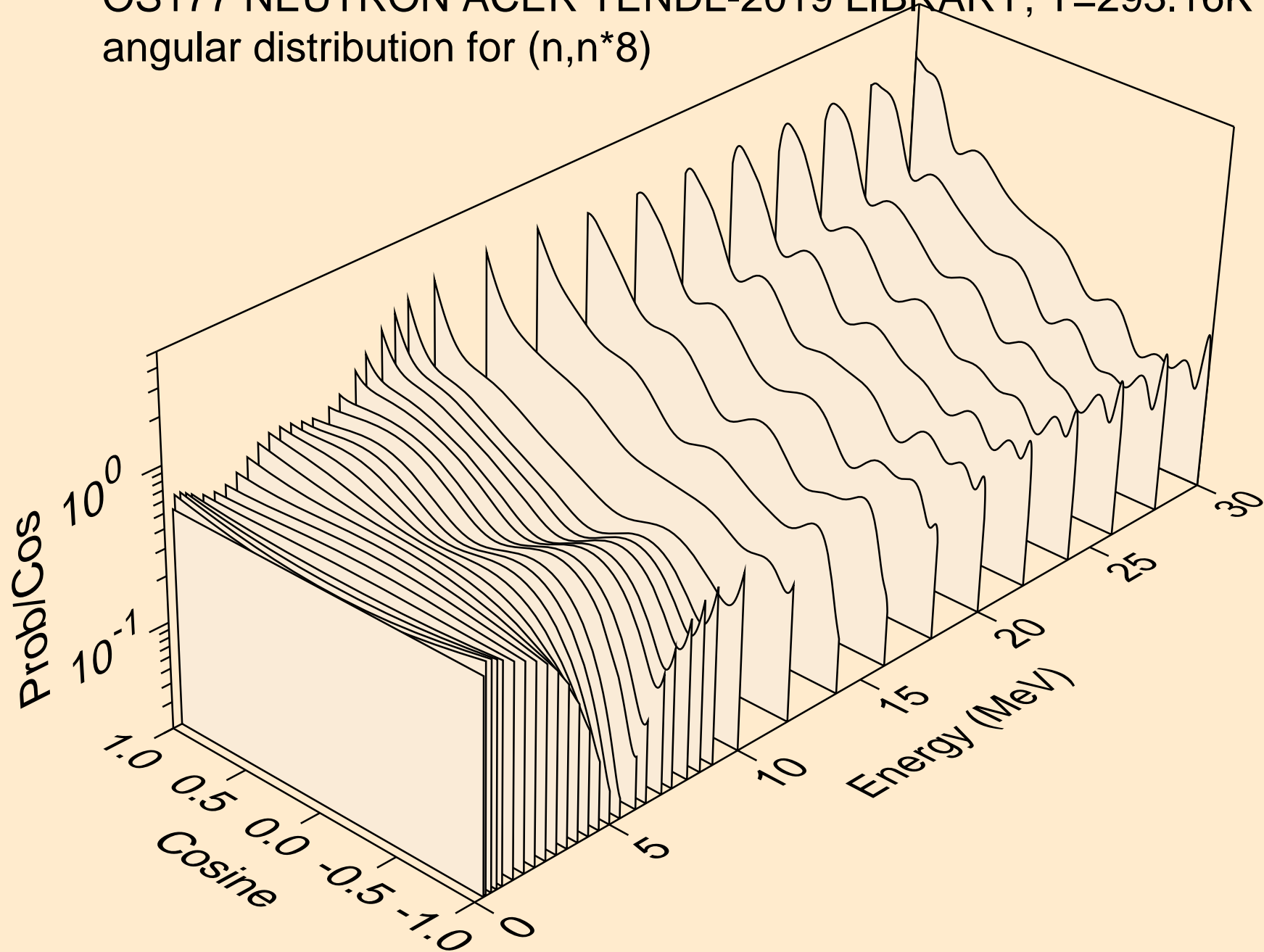
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angular distribution for (n,n\*6)



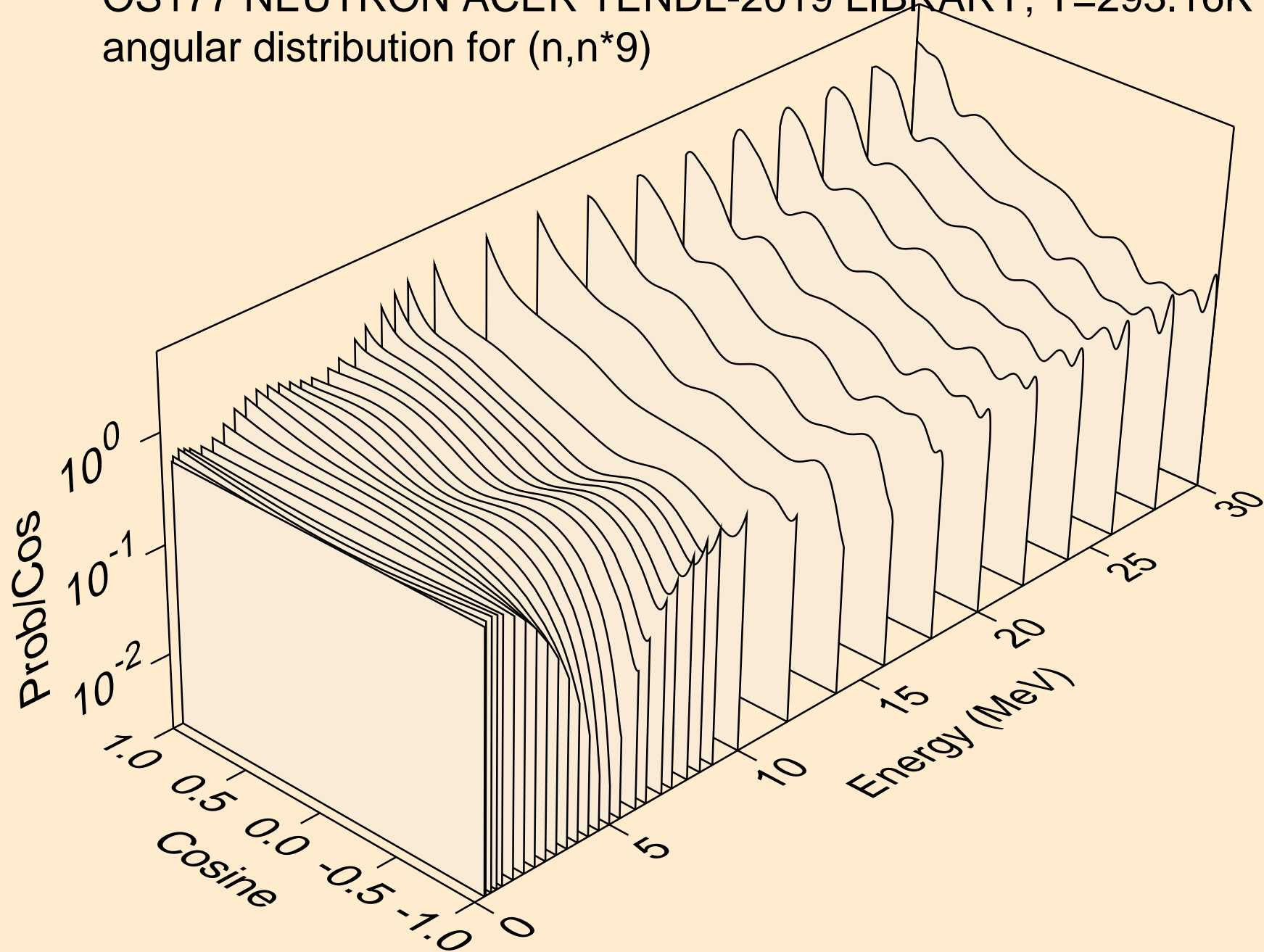
OS177 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*7)



OS177 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*8)

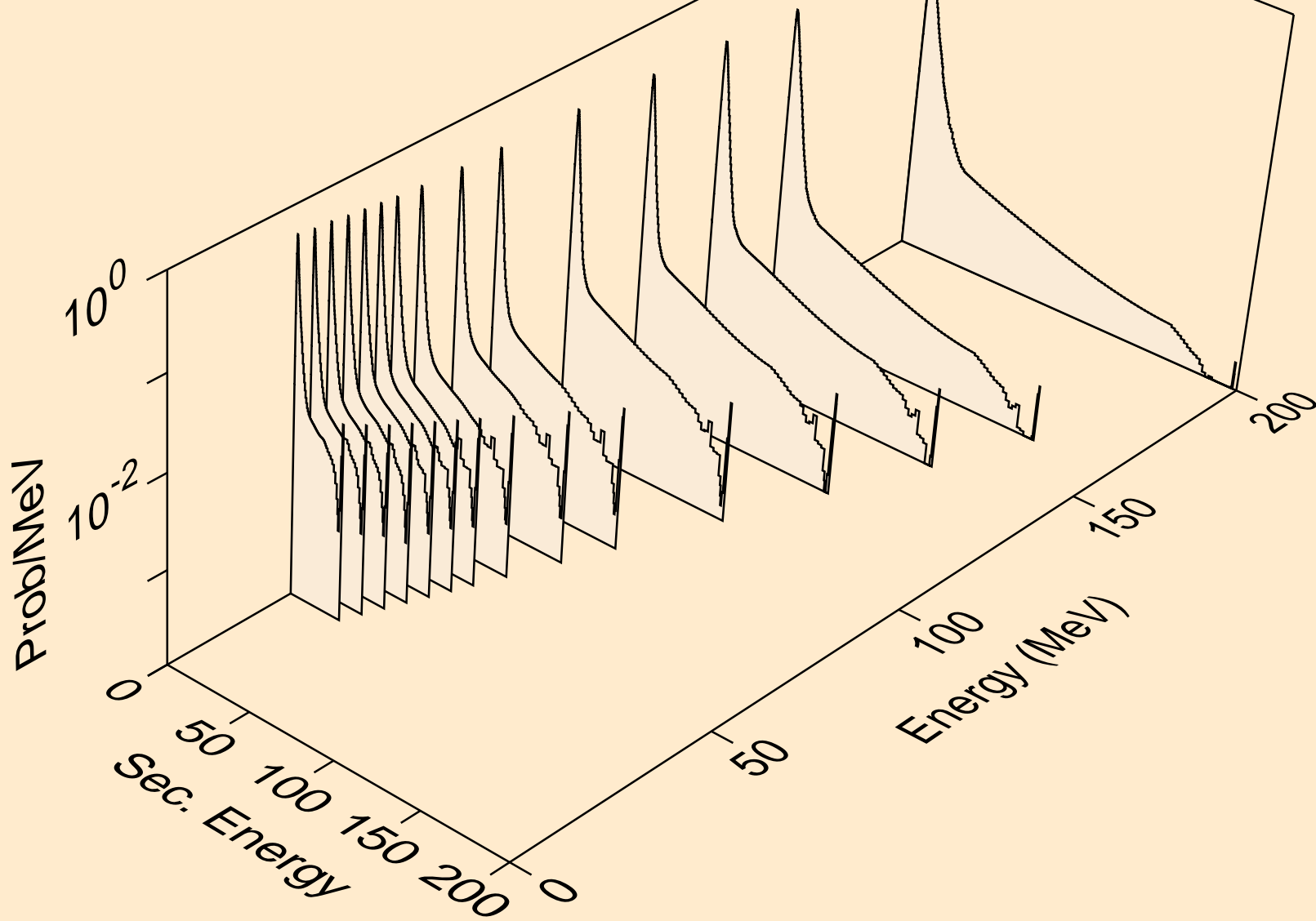


OS177 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*9)

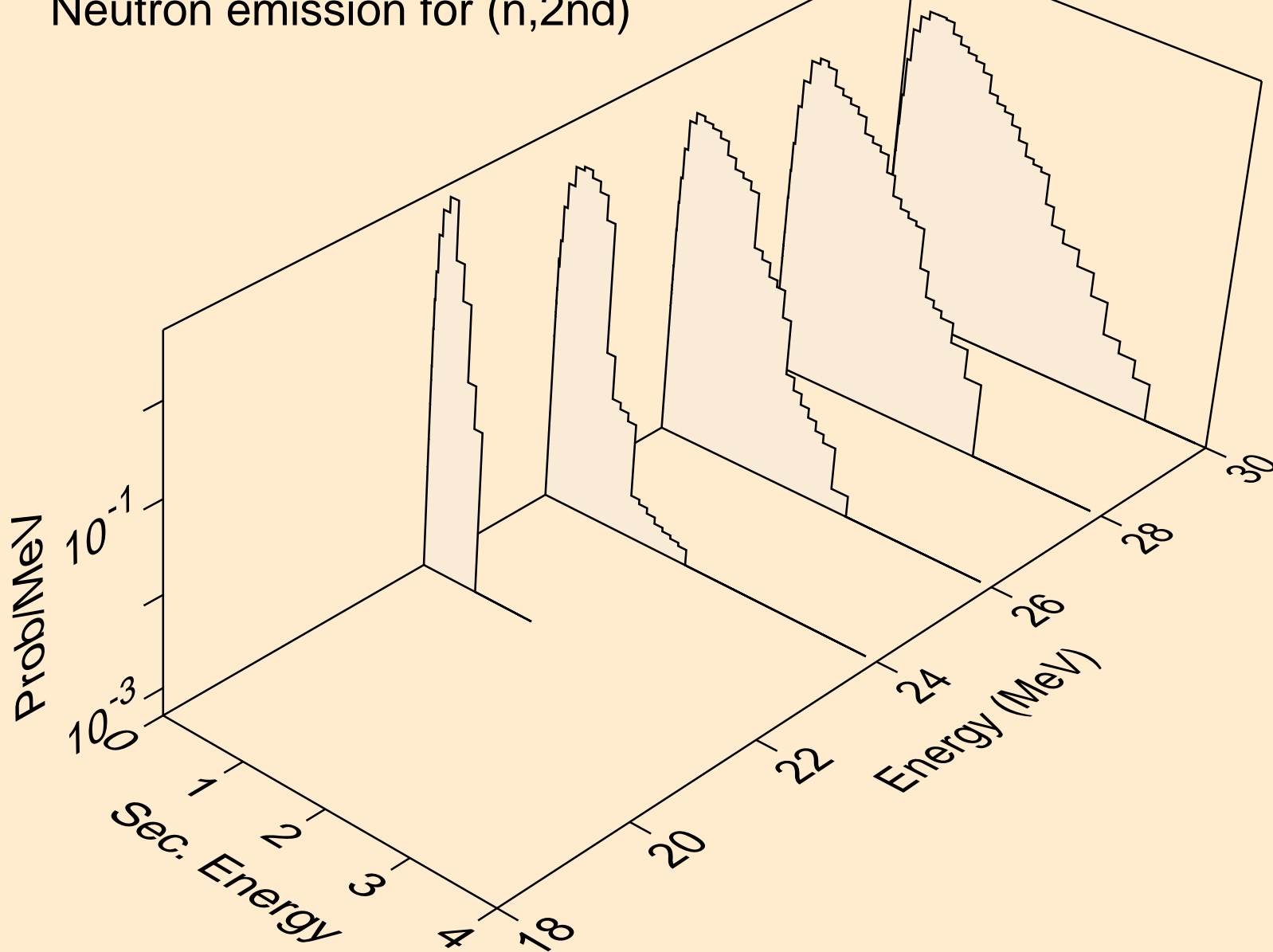




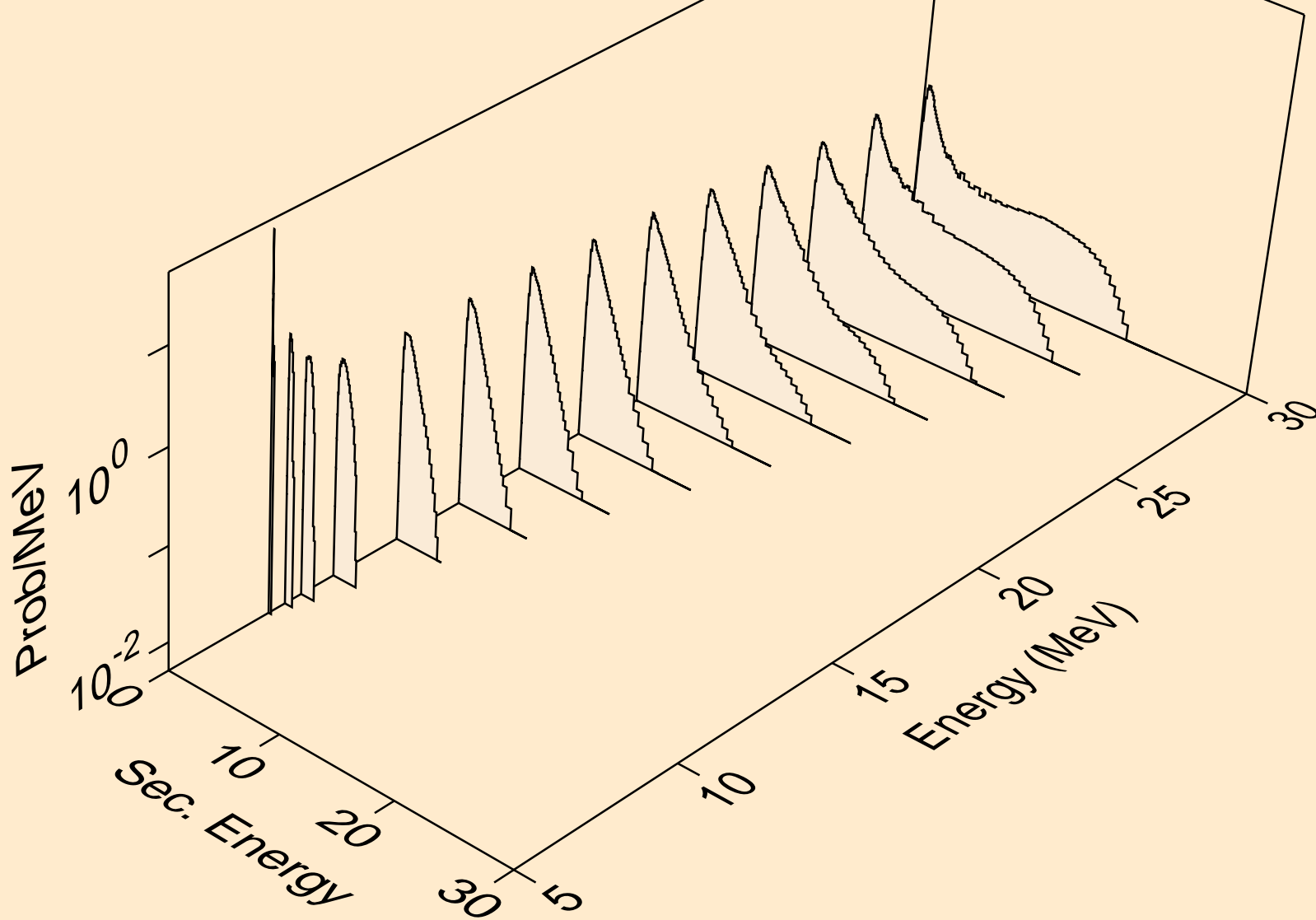
OS177 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,x)



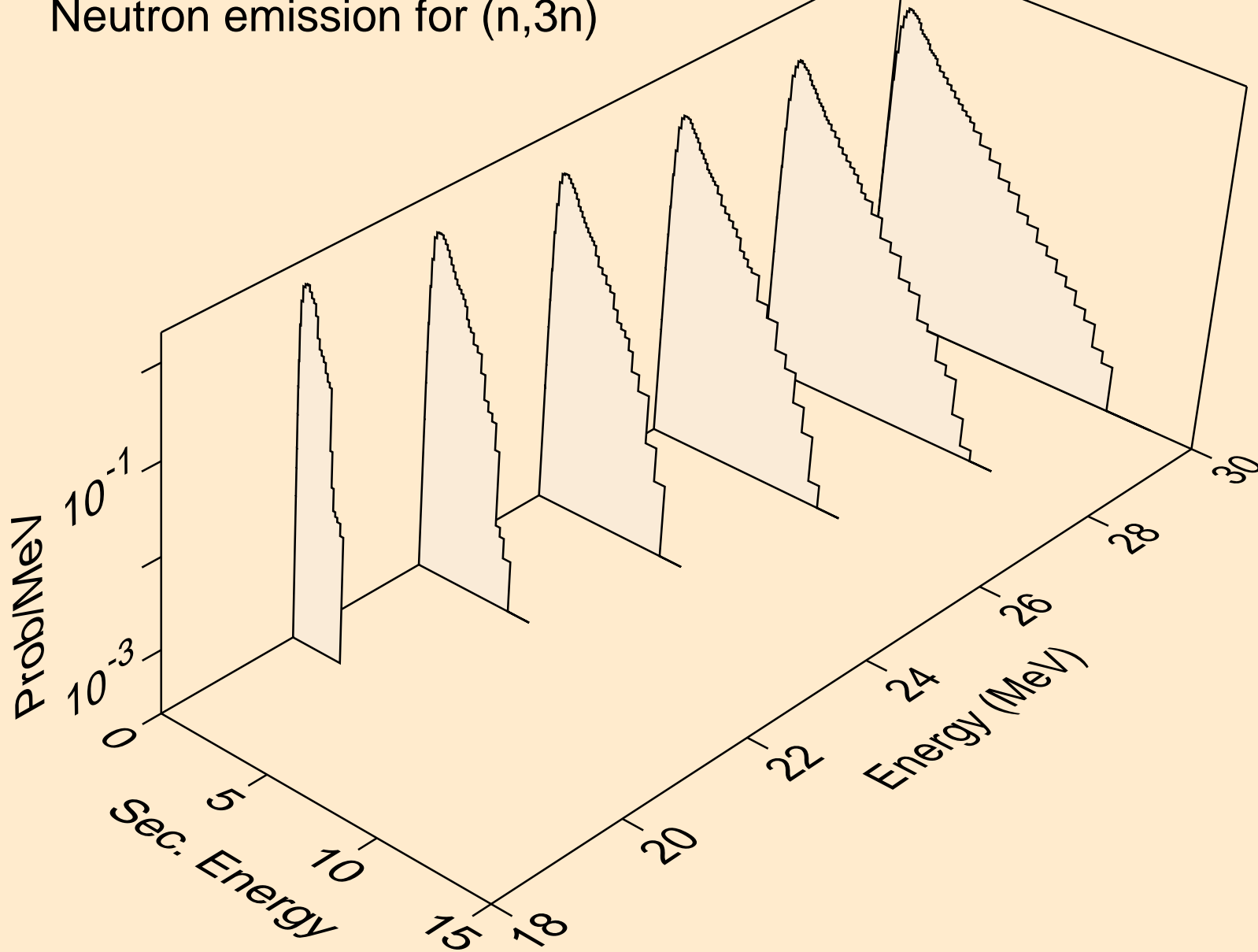
OS177 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,2nd)



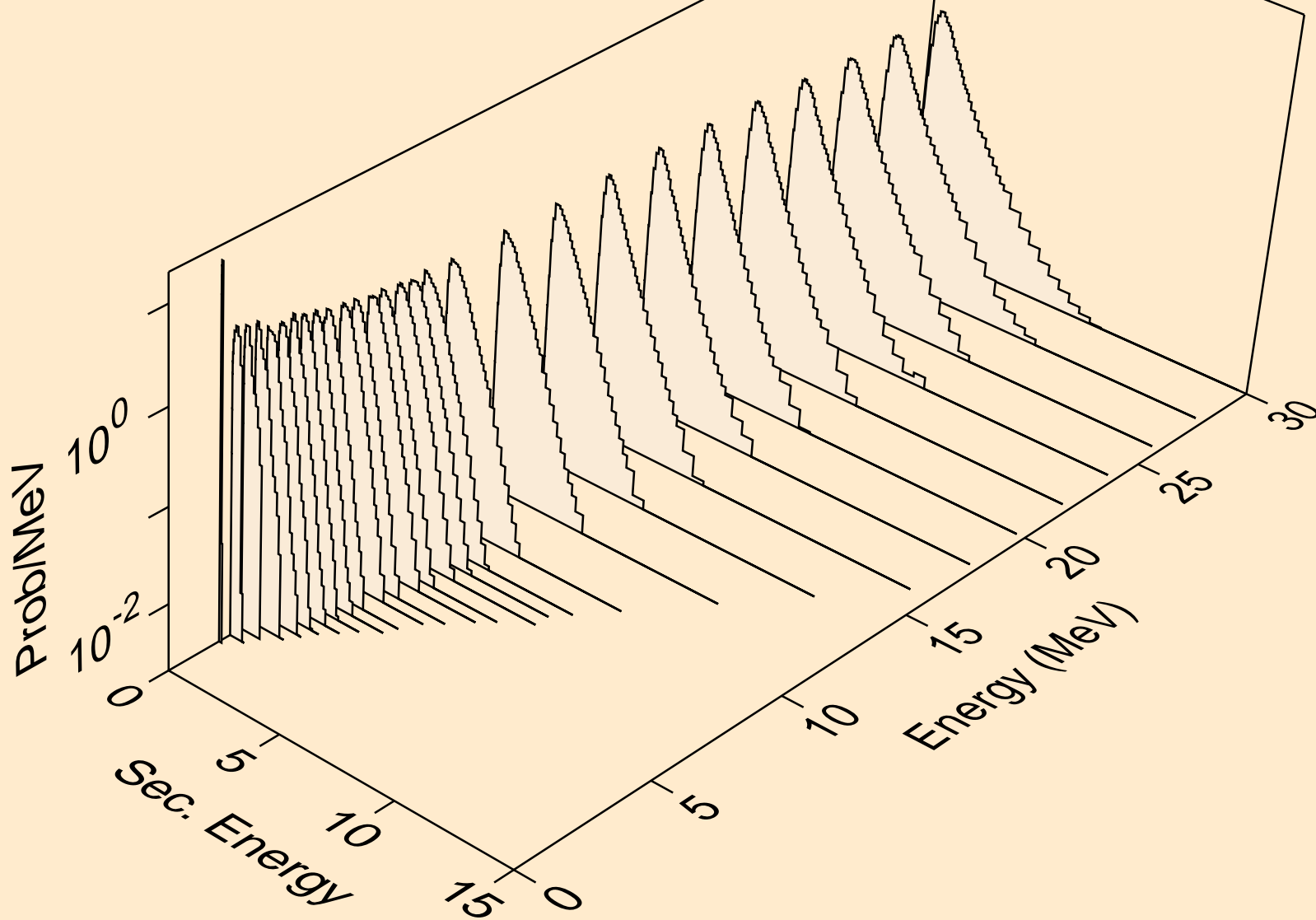
OS177 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,2n)



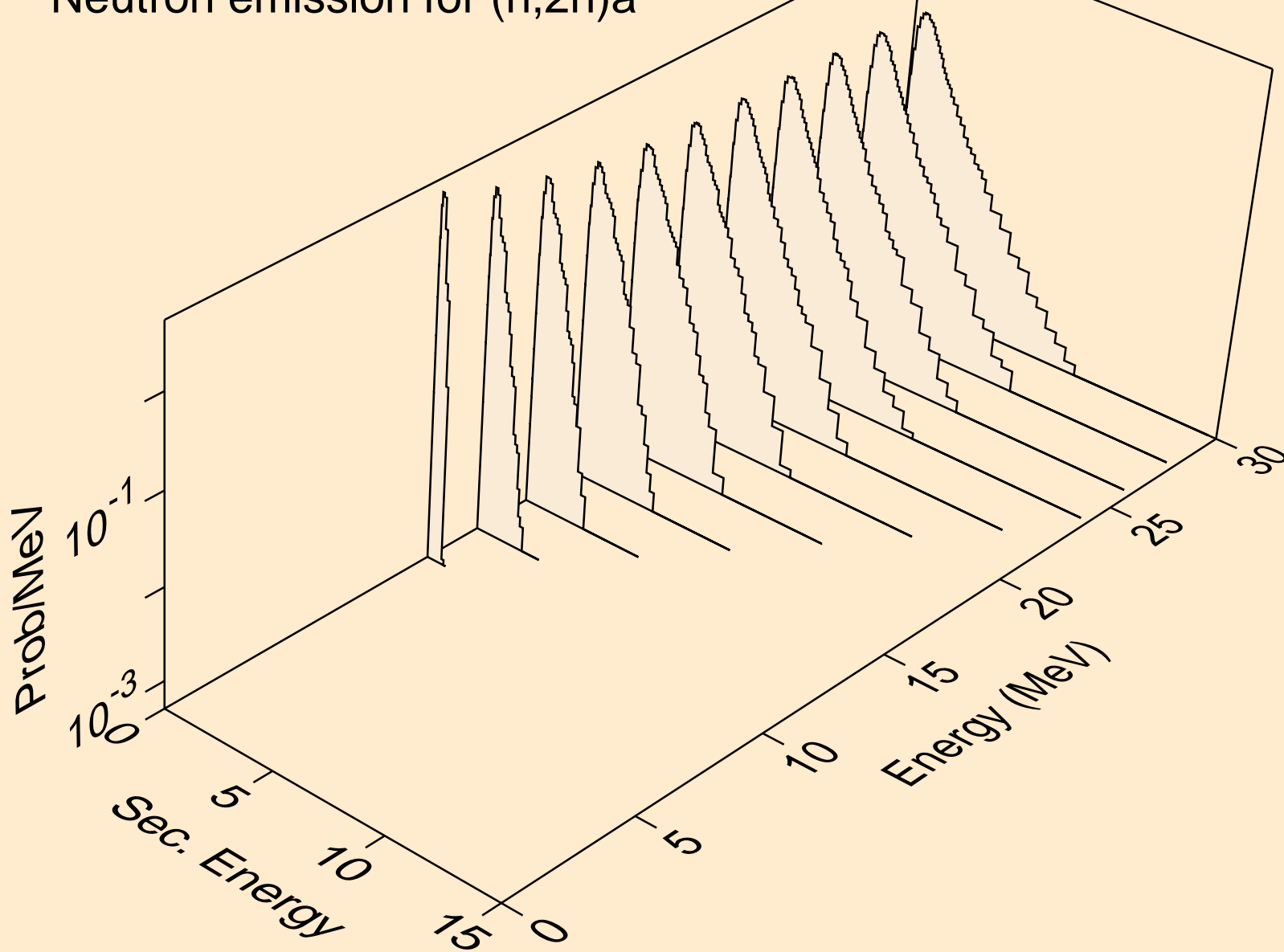
OS177 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,3n)



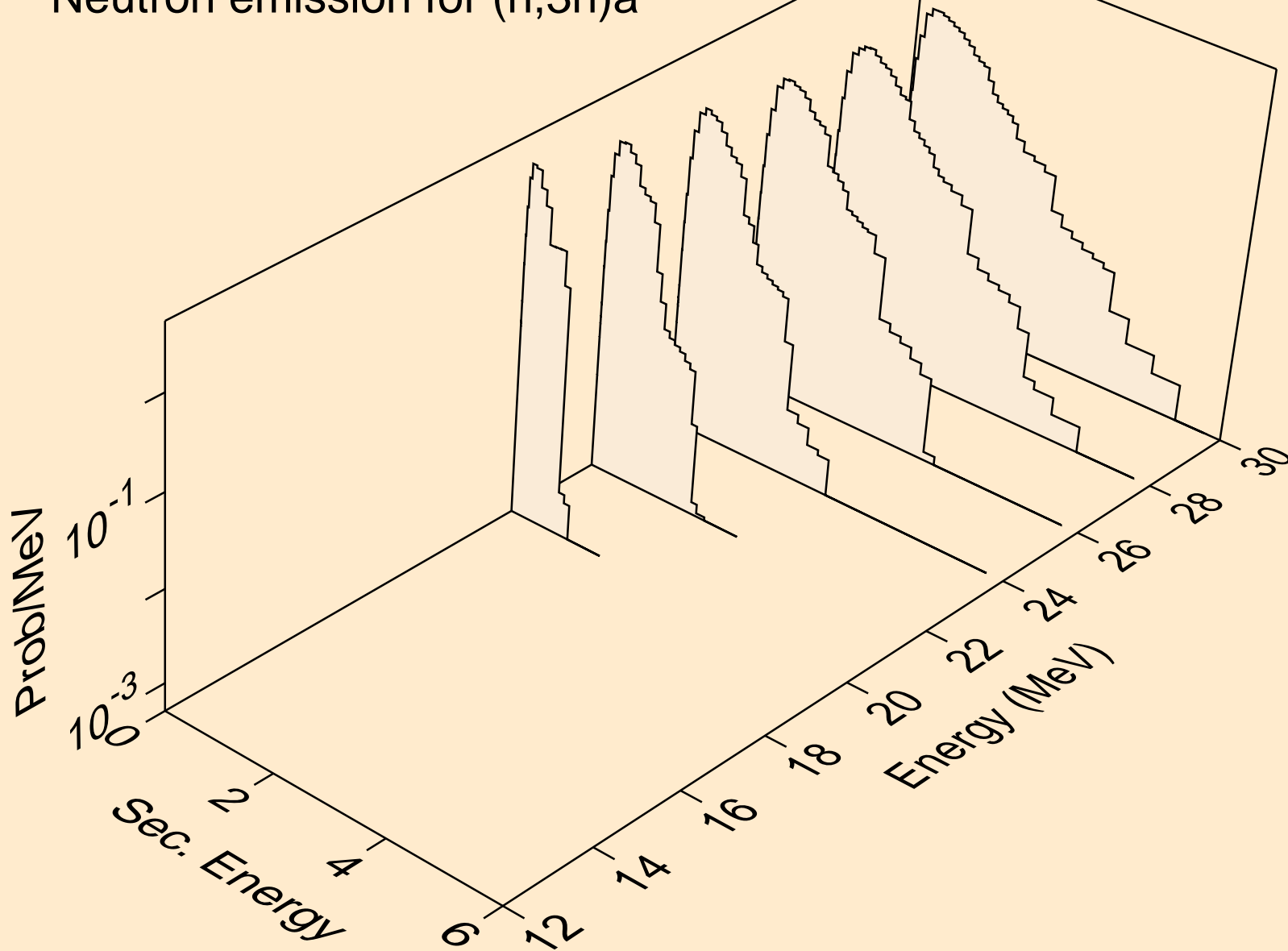
OS177 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,n\*)a



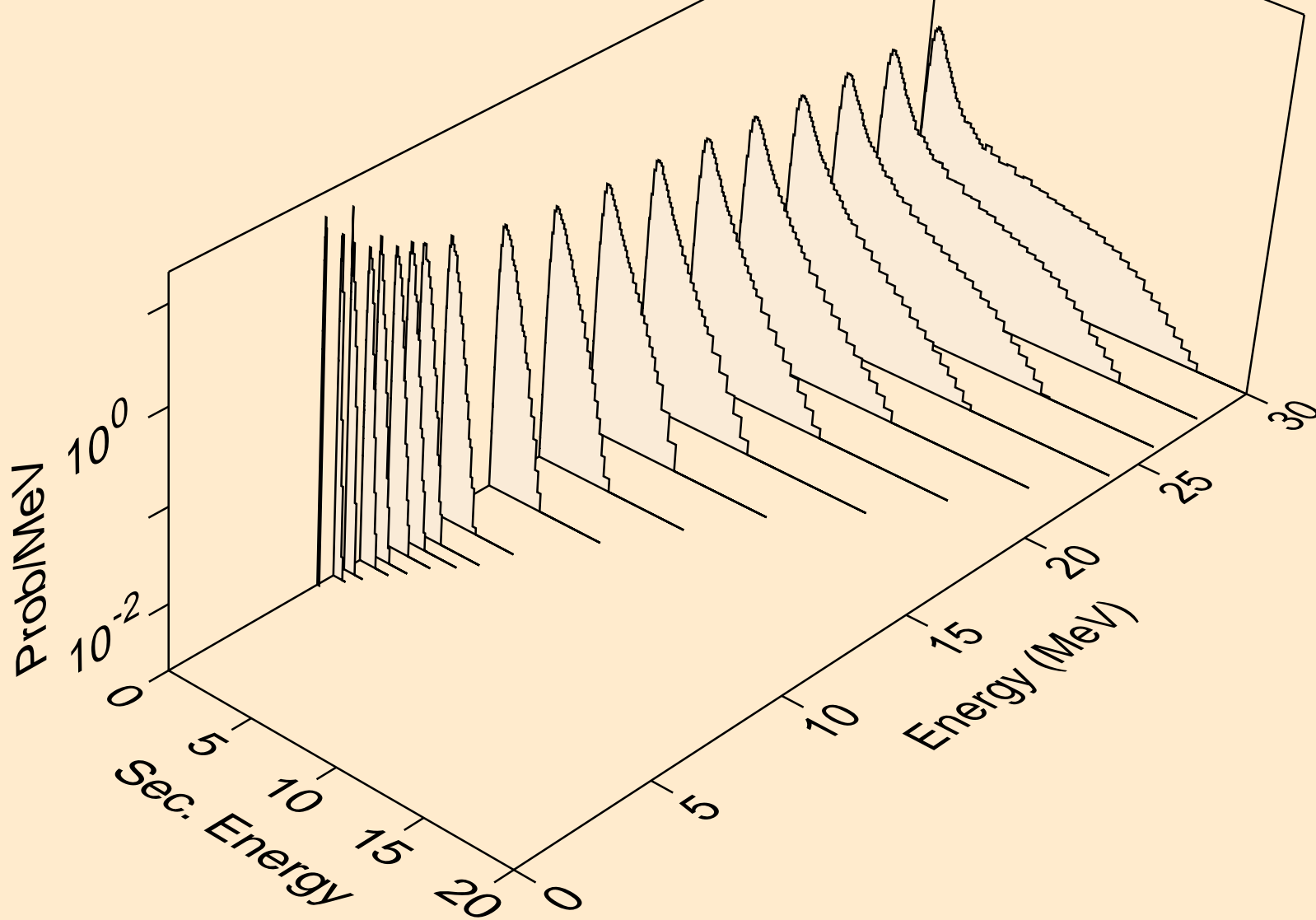
OS177 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,2n)a



OS177 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,3n)a

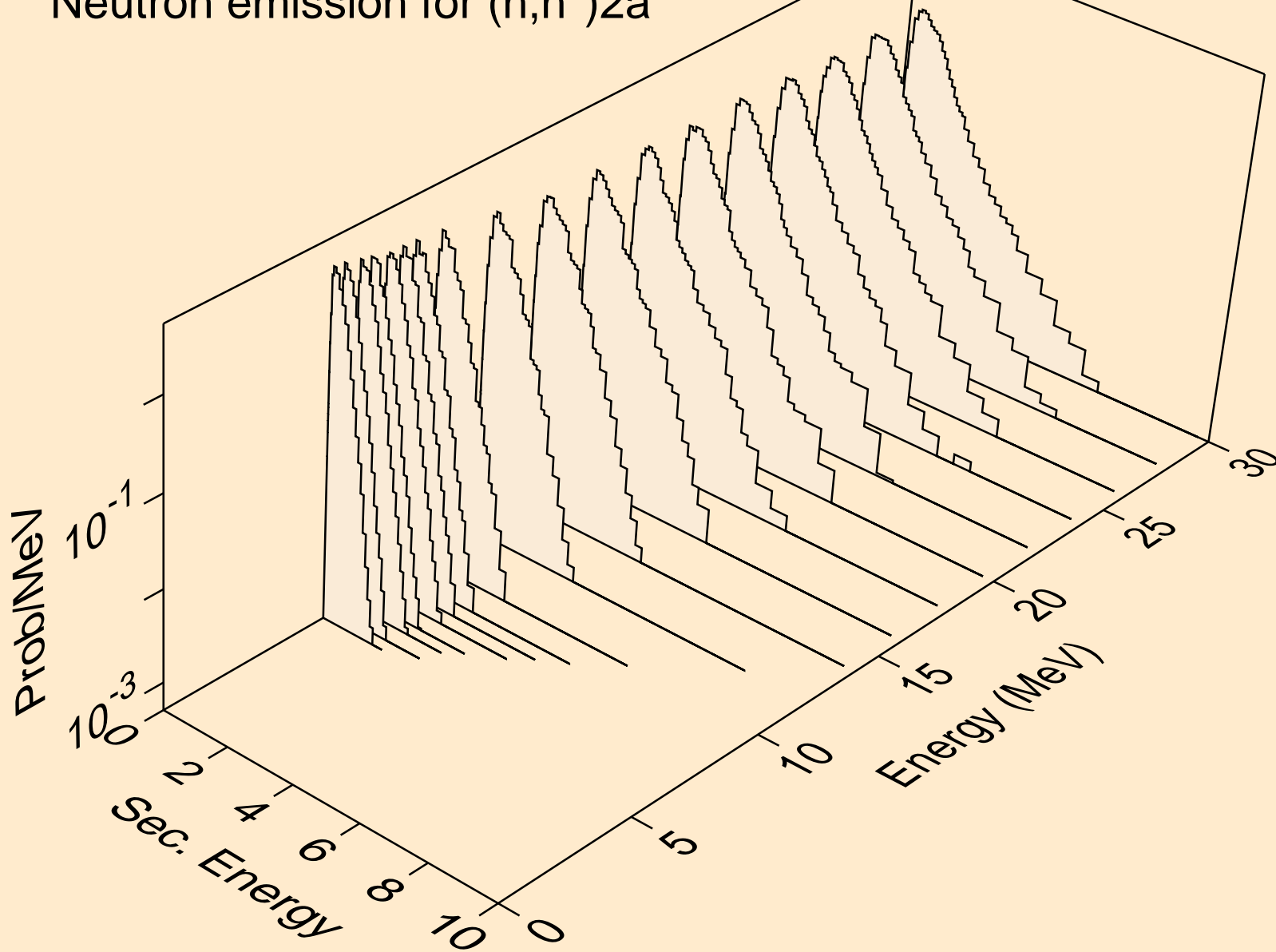


OS177 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,n\*)p

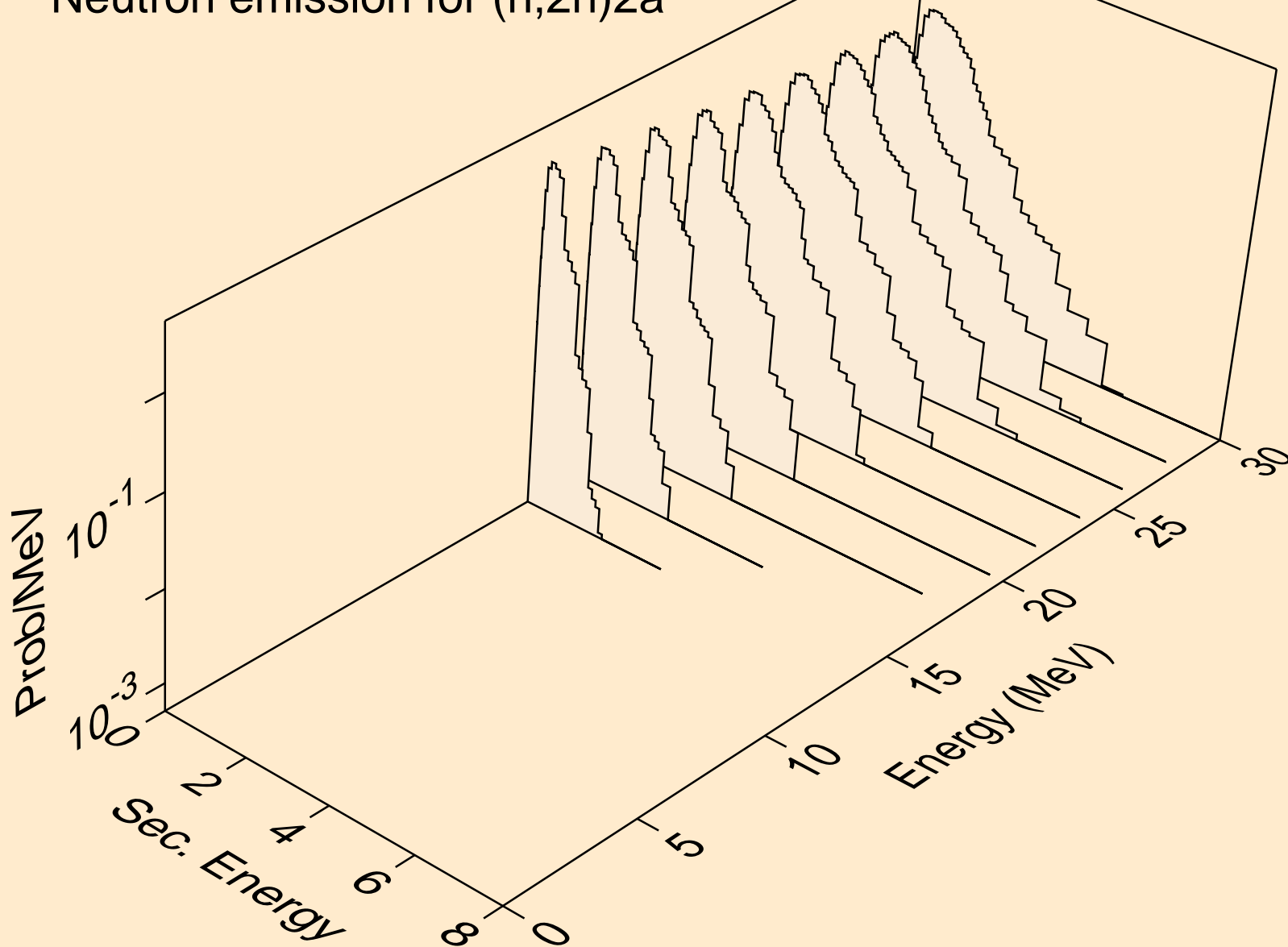




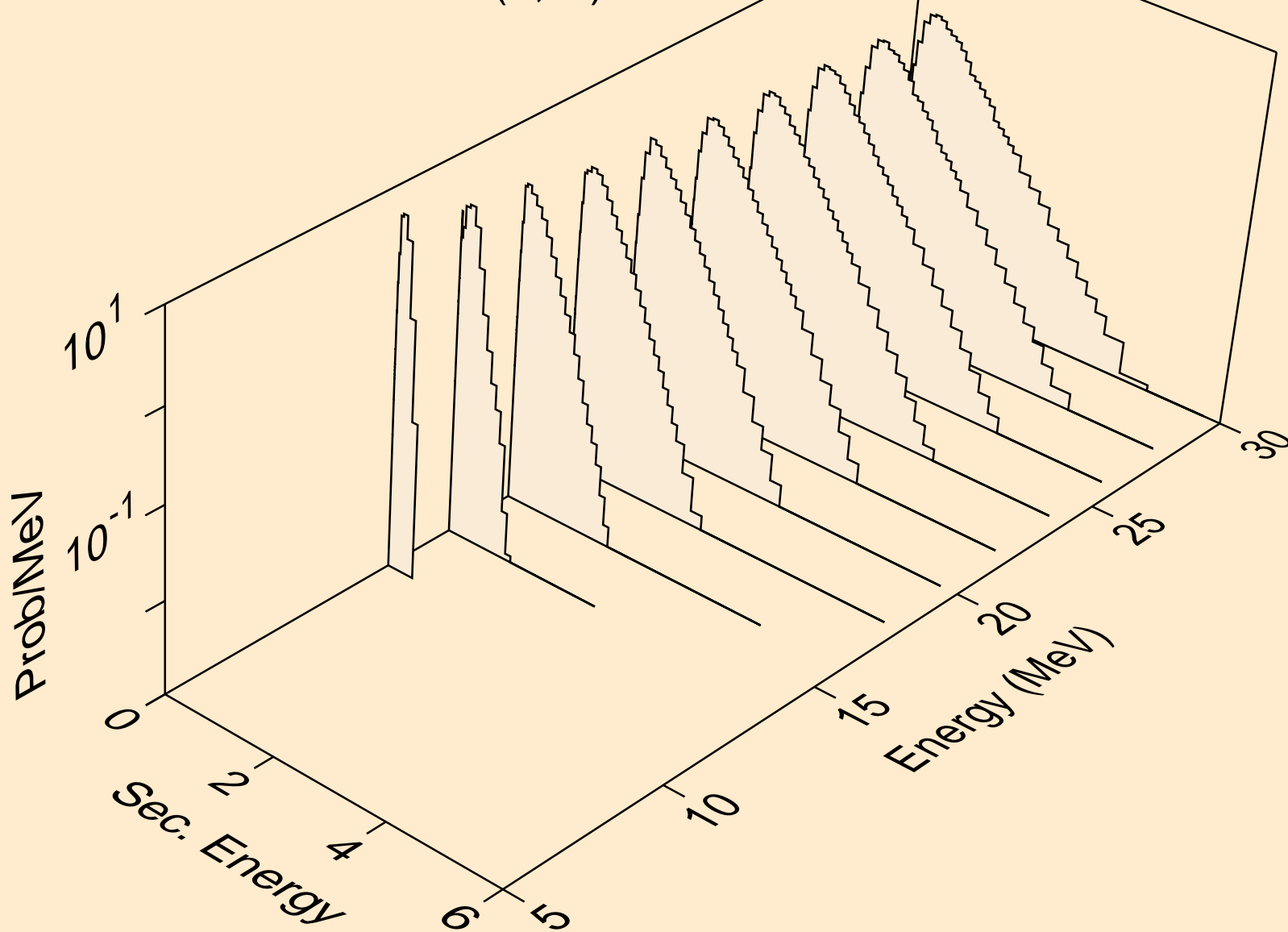
OS177 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,n\*)2a



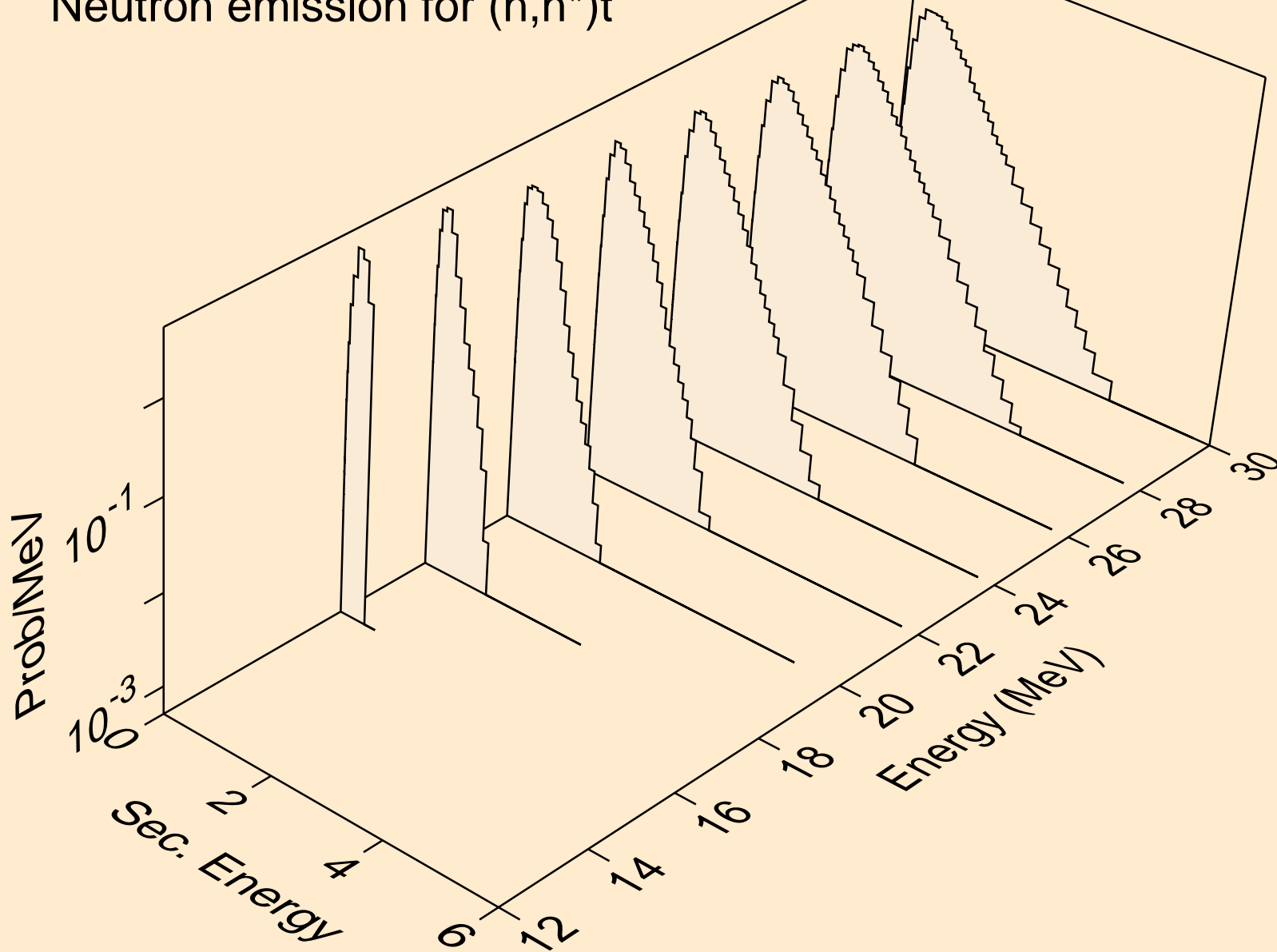
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Neutron emission for (n,2n)2a



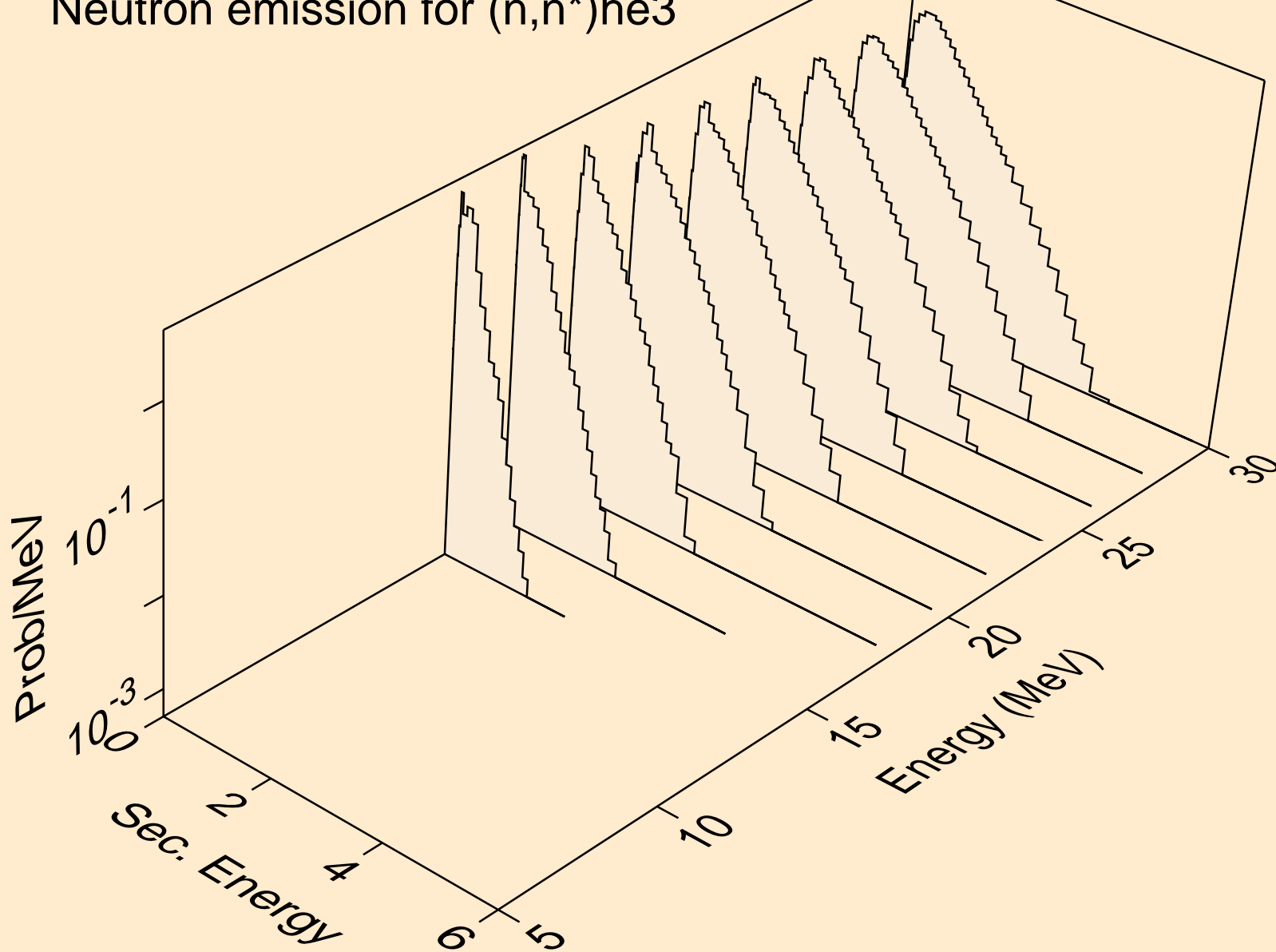
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Neutron emission for (n,n\*)d



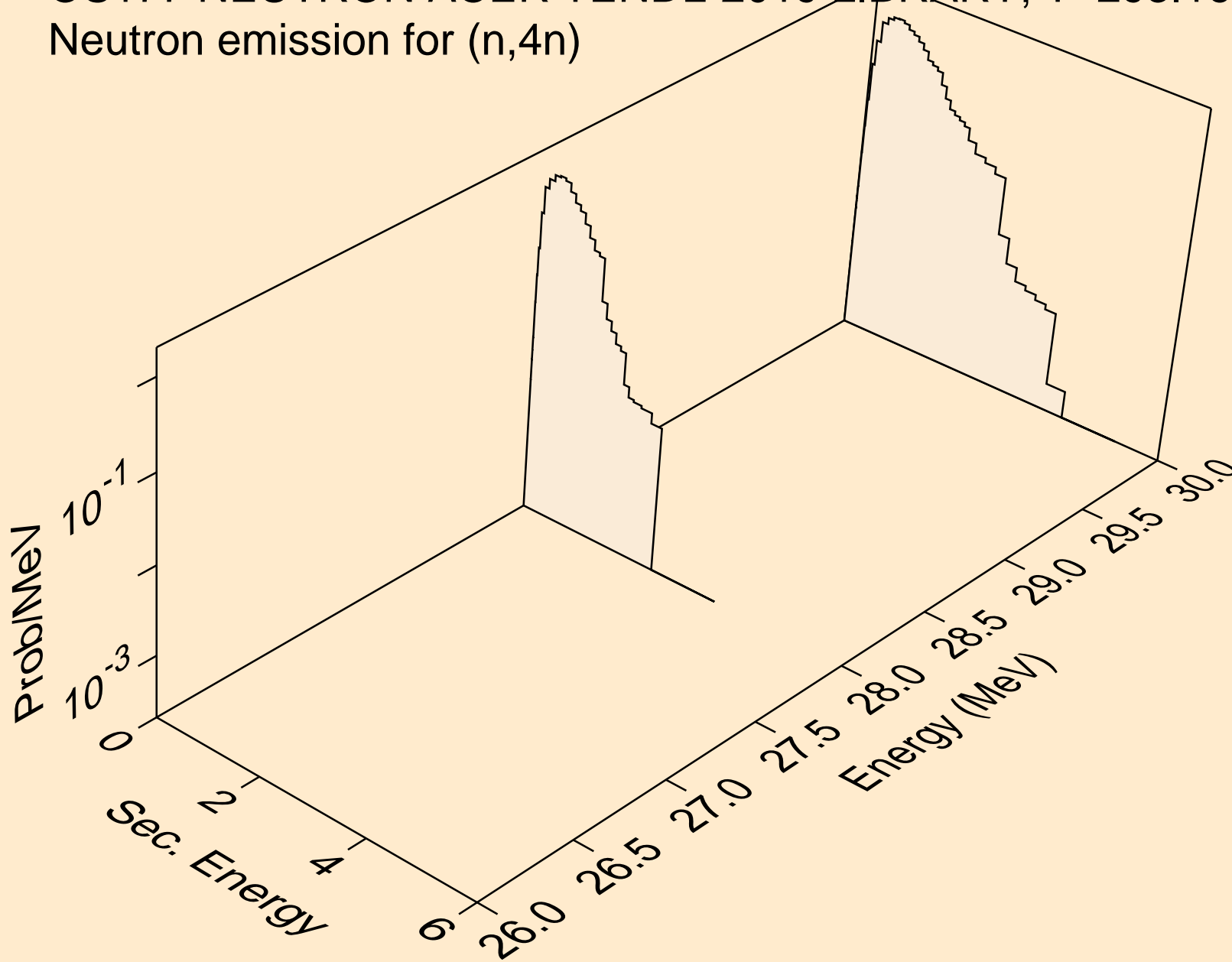
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Neutron emission for (n,n\*)t



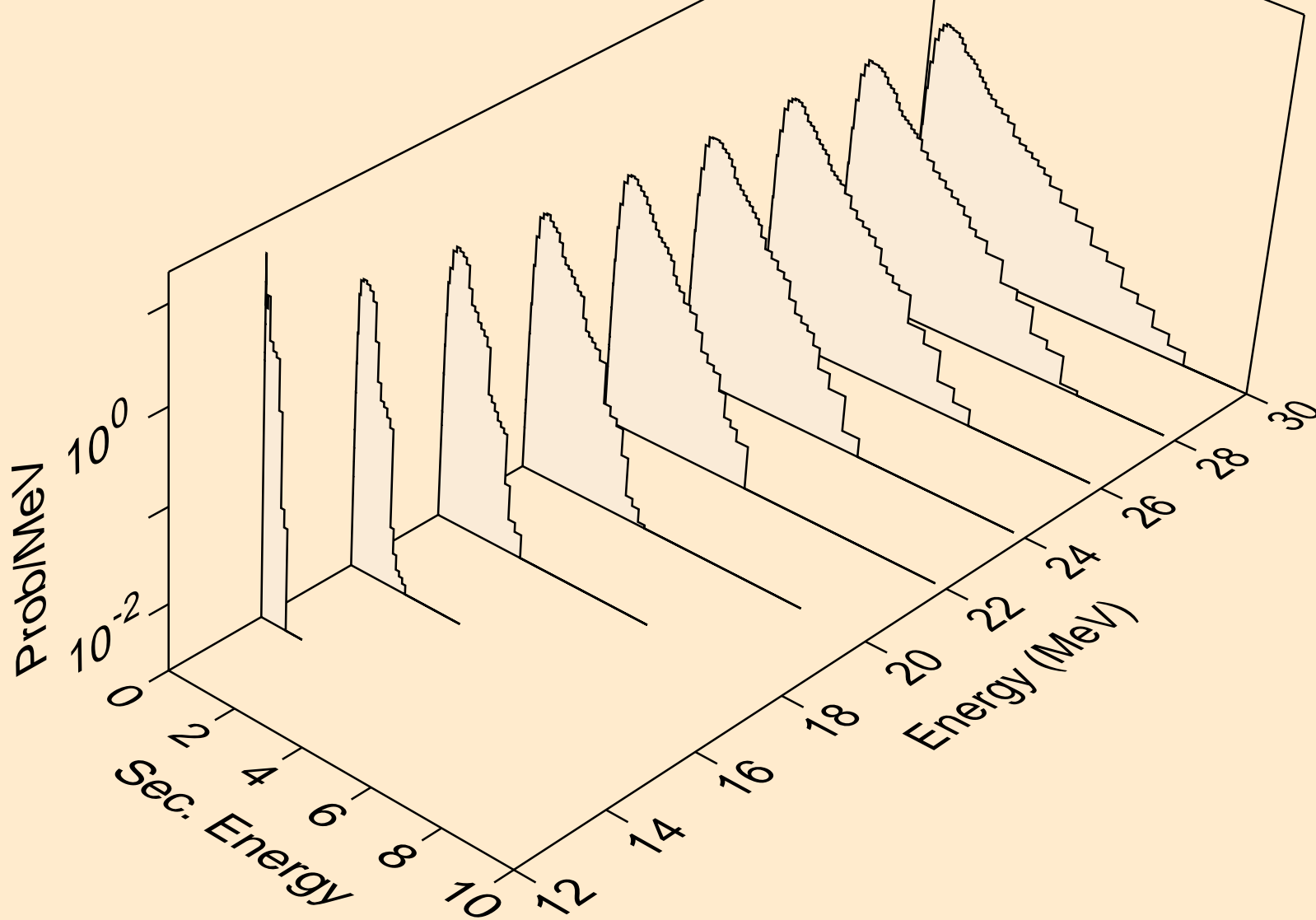
OS177 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,n\*)he3



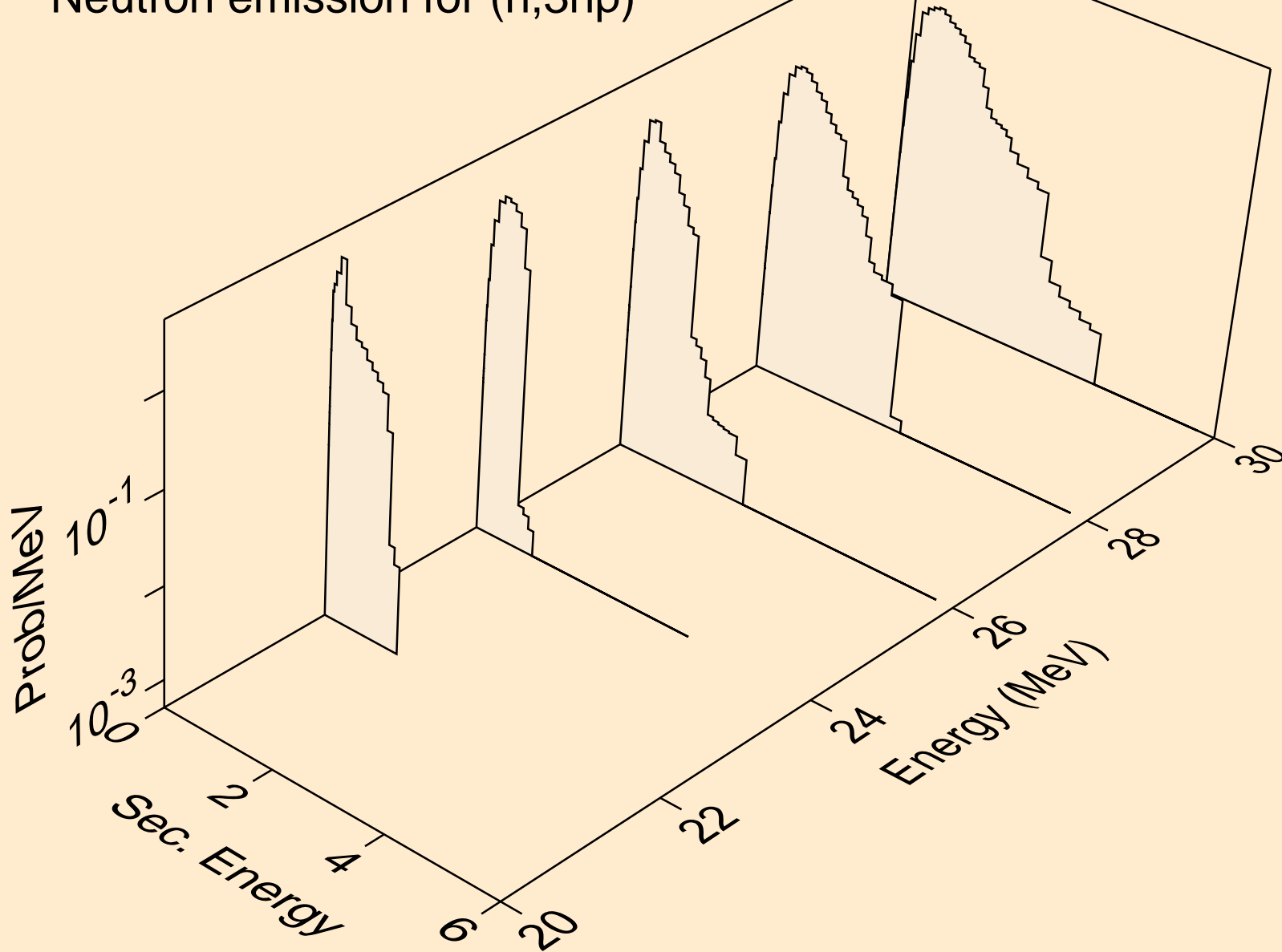
OS177 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,4n)



OS177 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,2np)

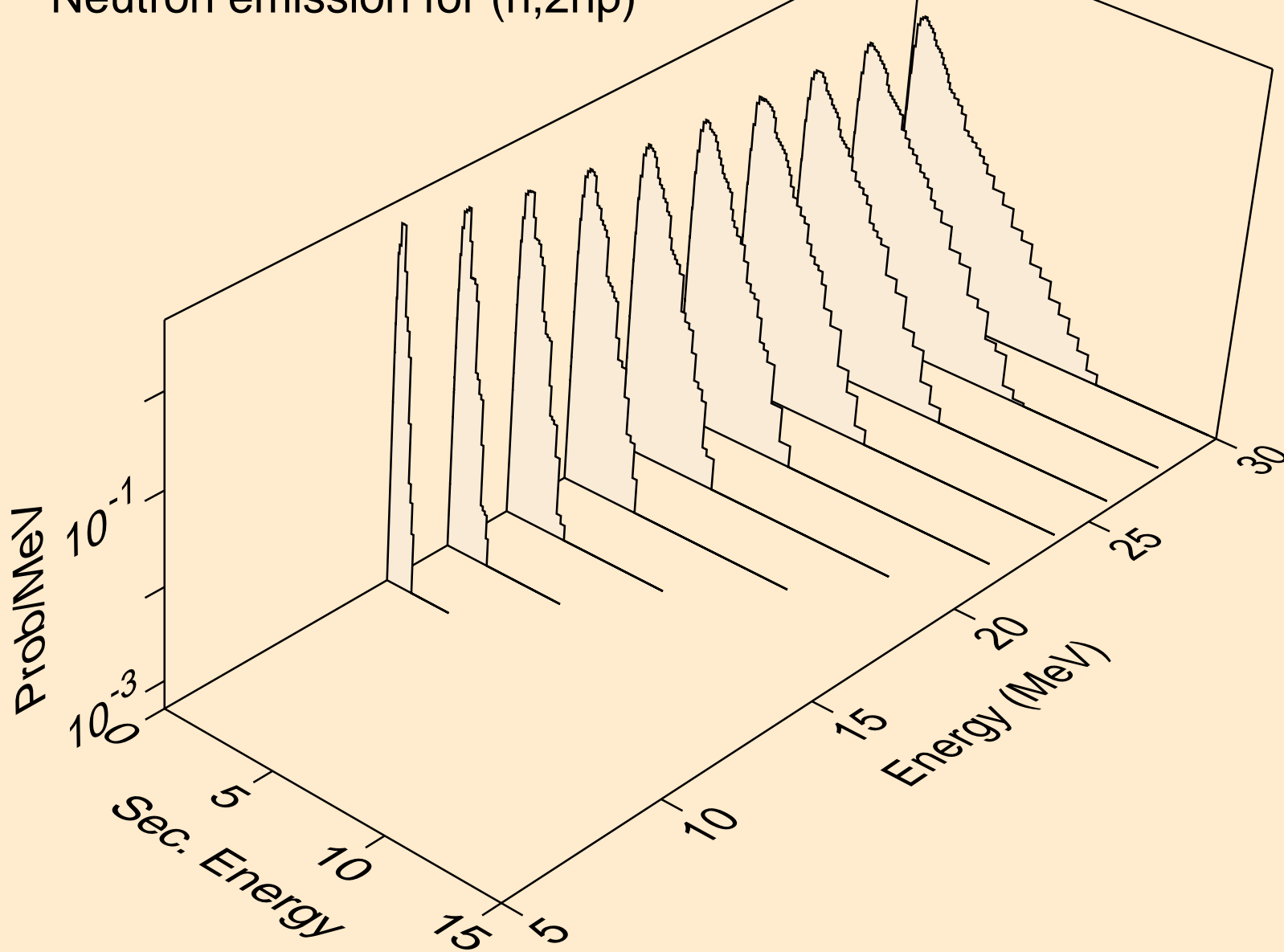


OS177 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,3np)

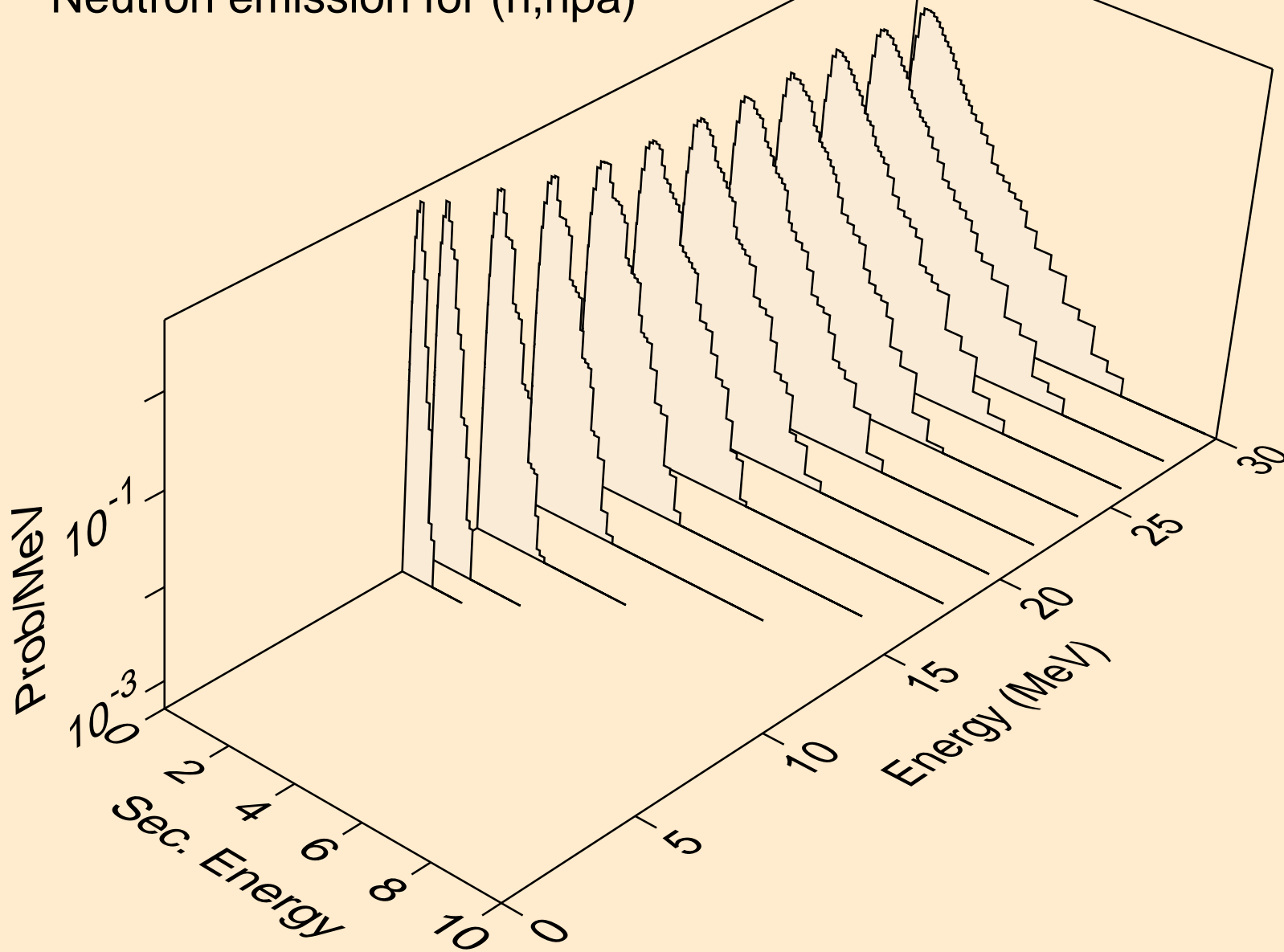




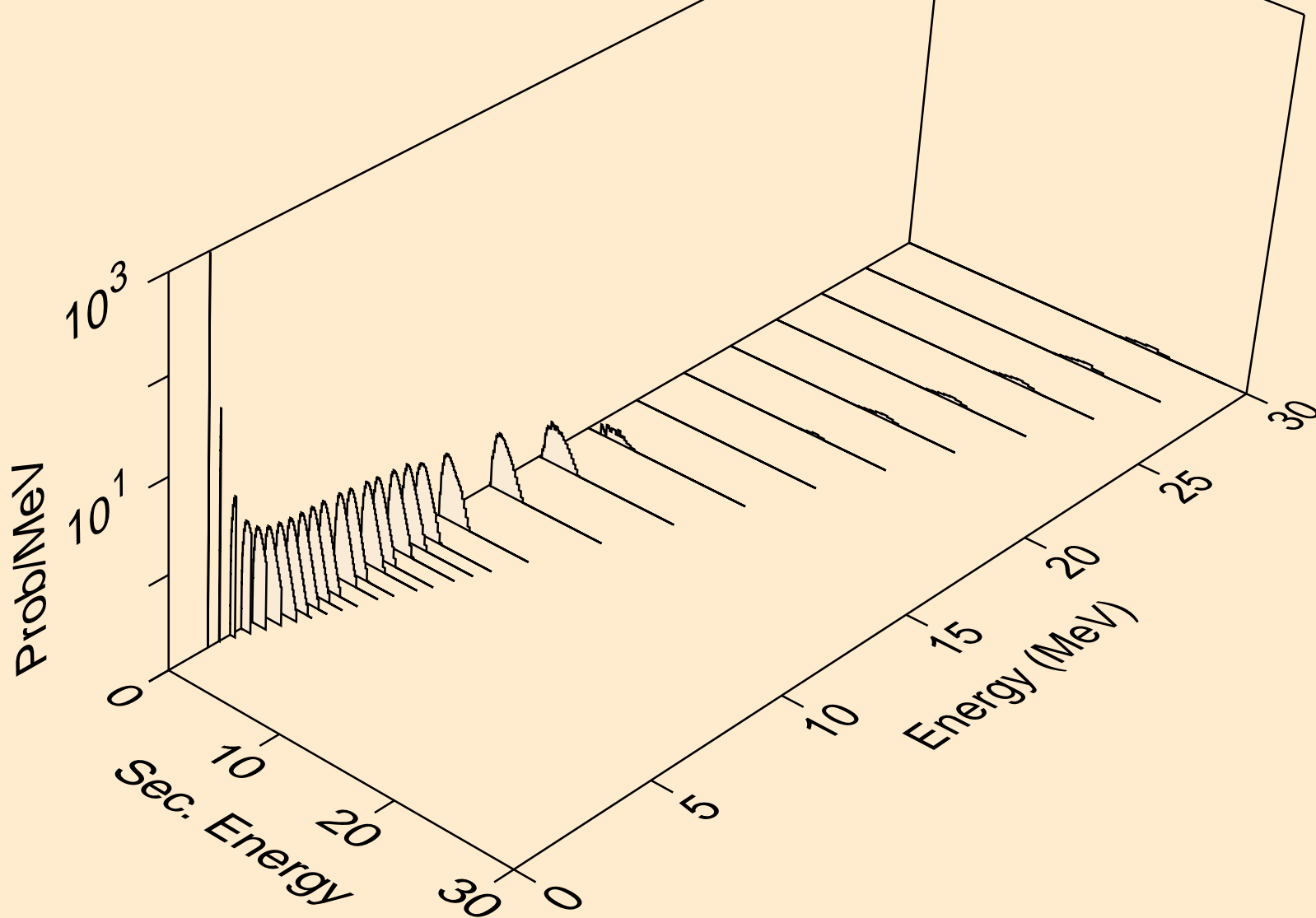
OS177 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,2np)



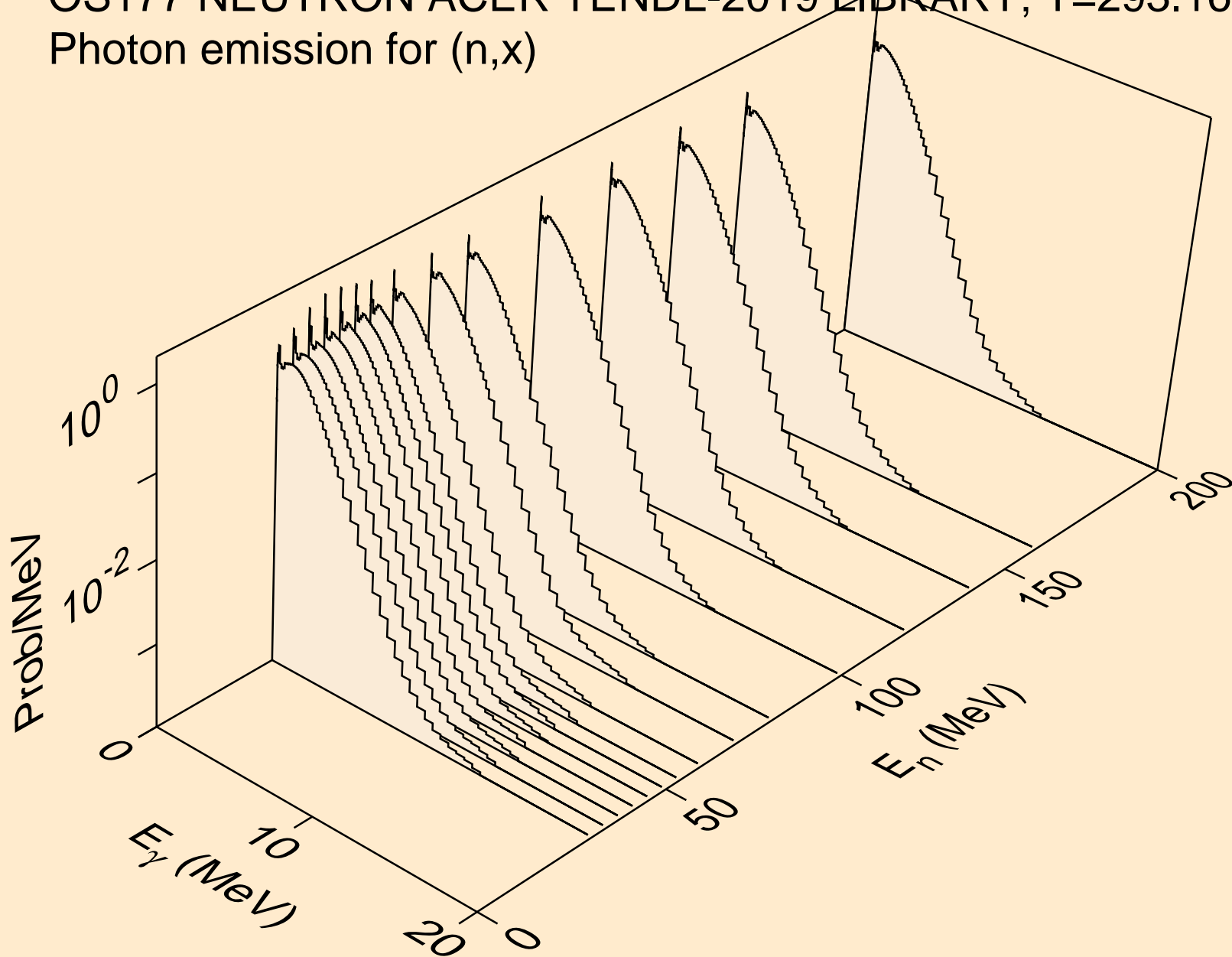
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Neutron emission for (n,npa)



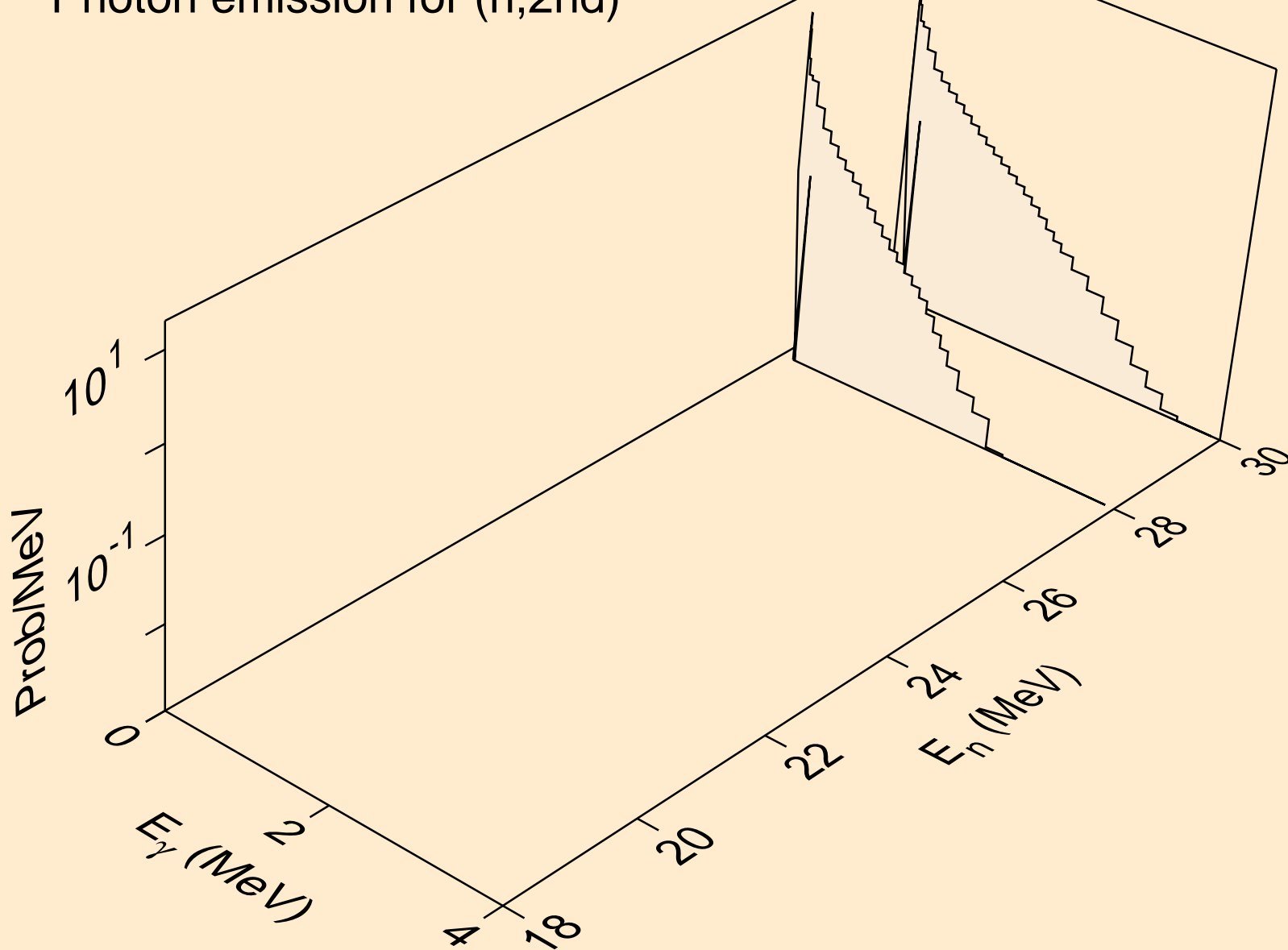
OS177 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,n\*c)



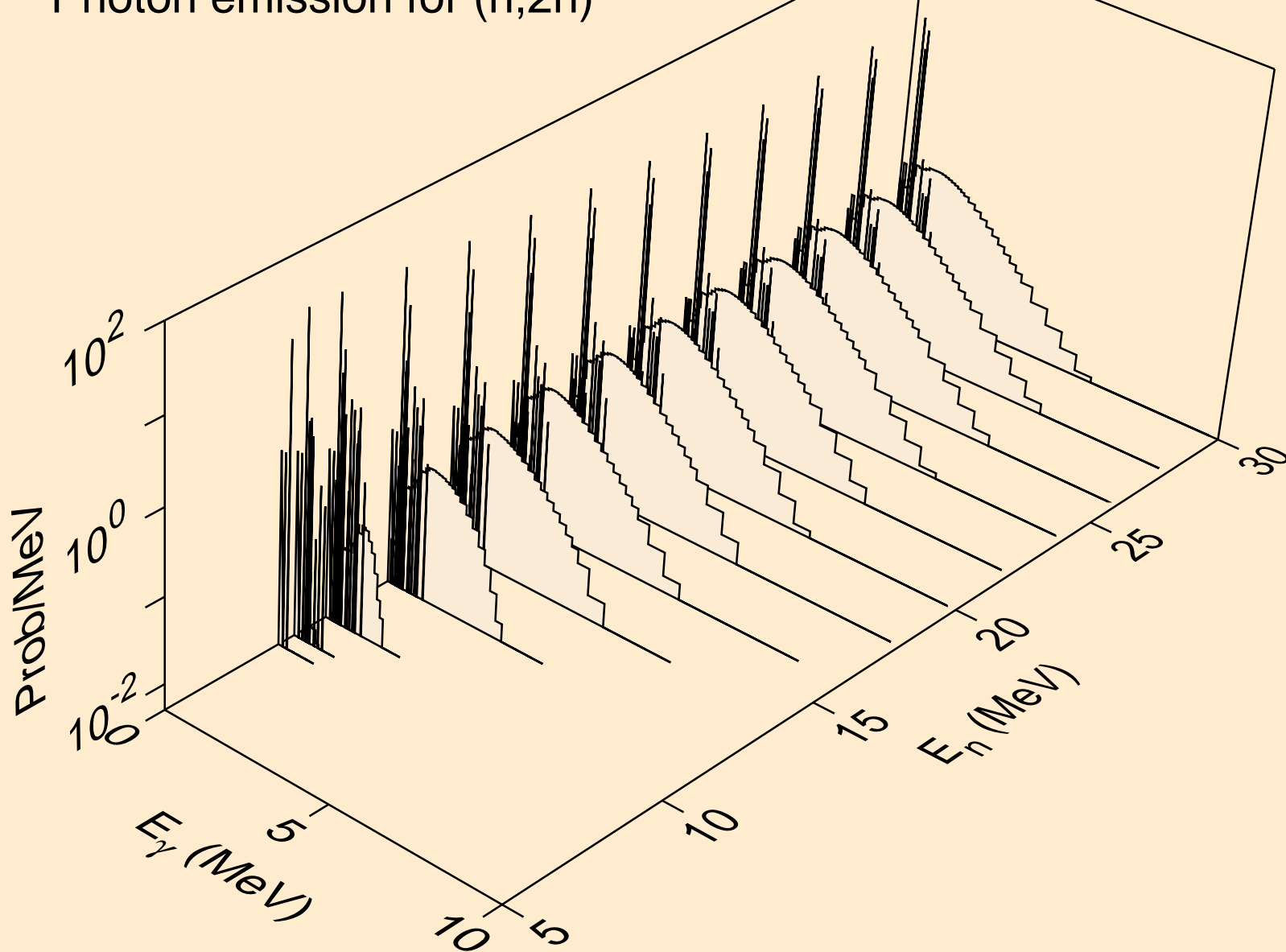
OS177 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,x)



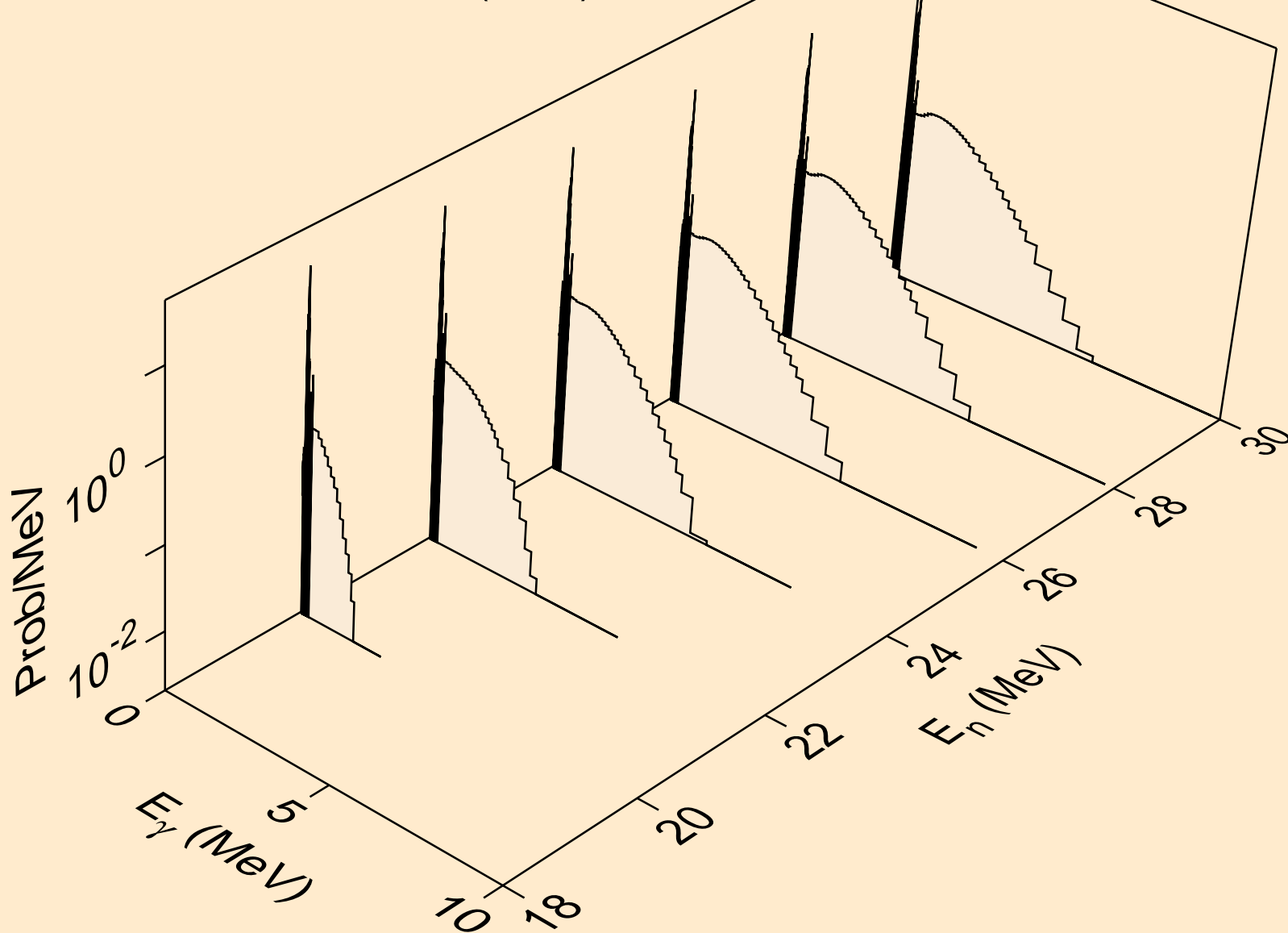
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Photon emission for (n,2nd)



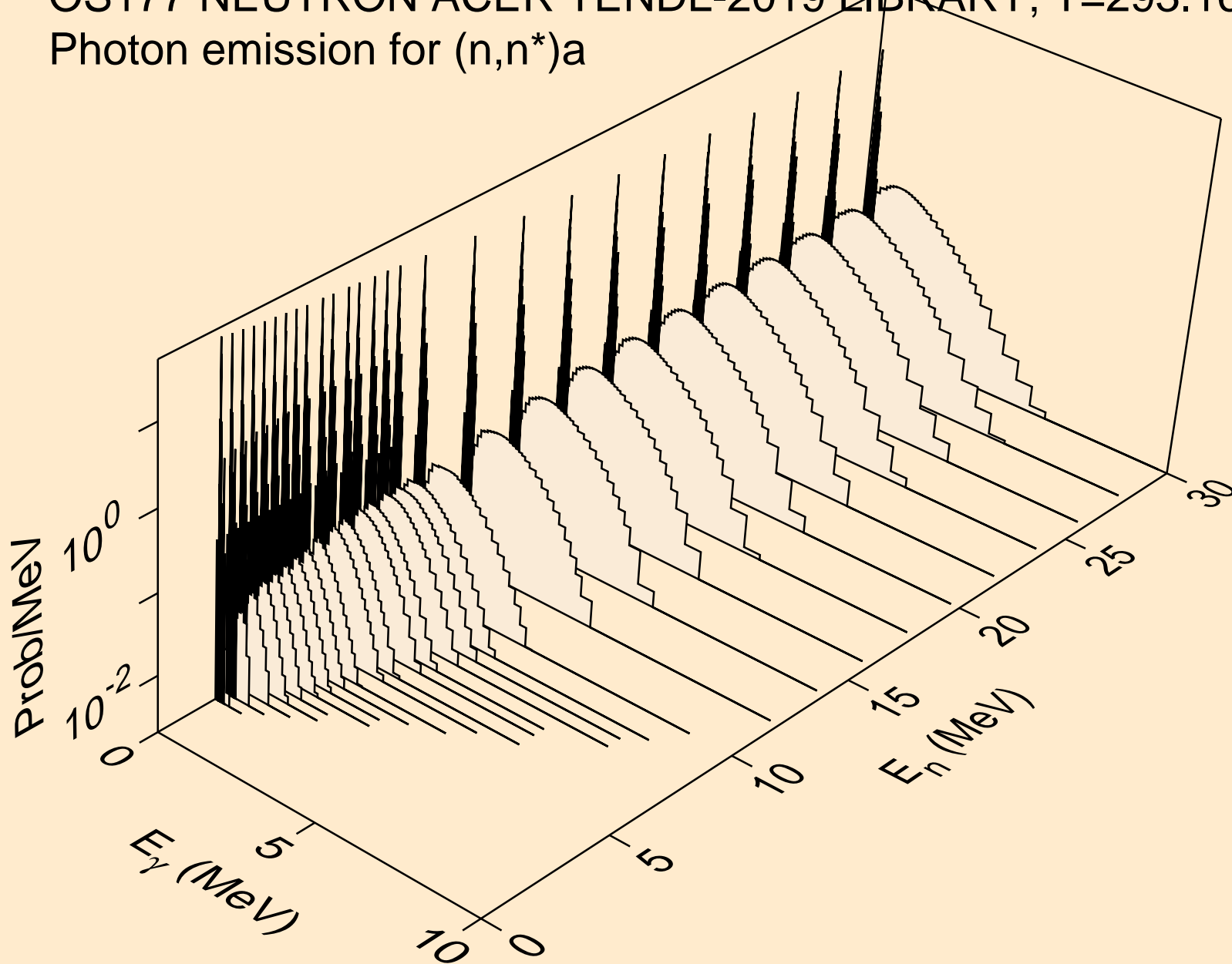
OS177 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,2n)



OS177 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,3n)

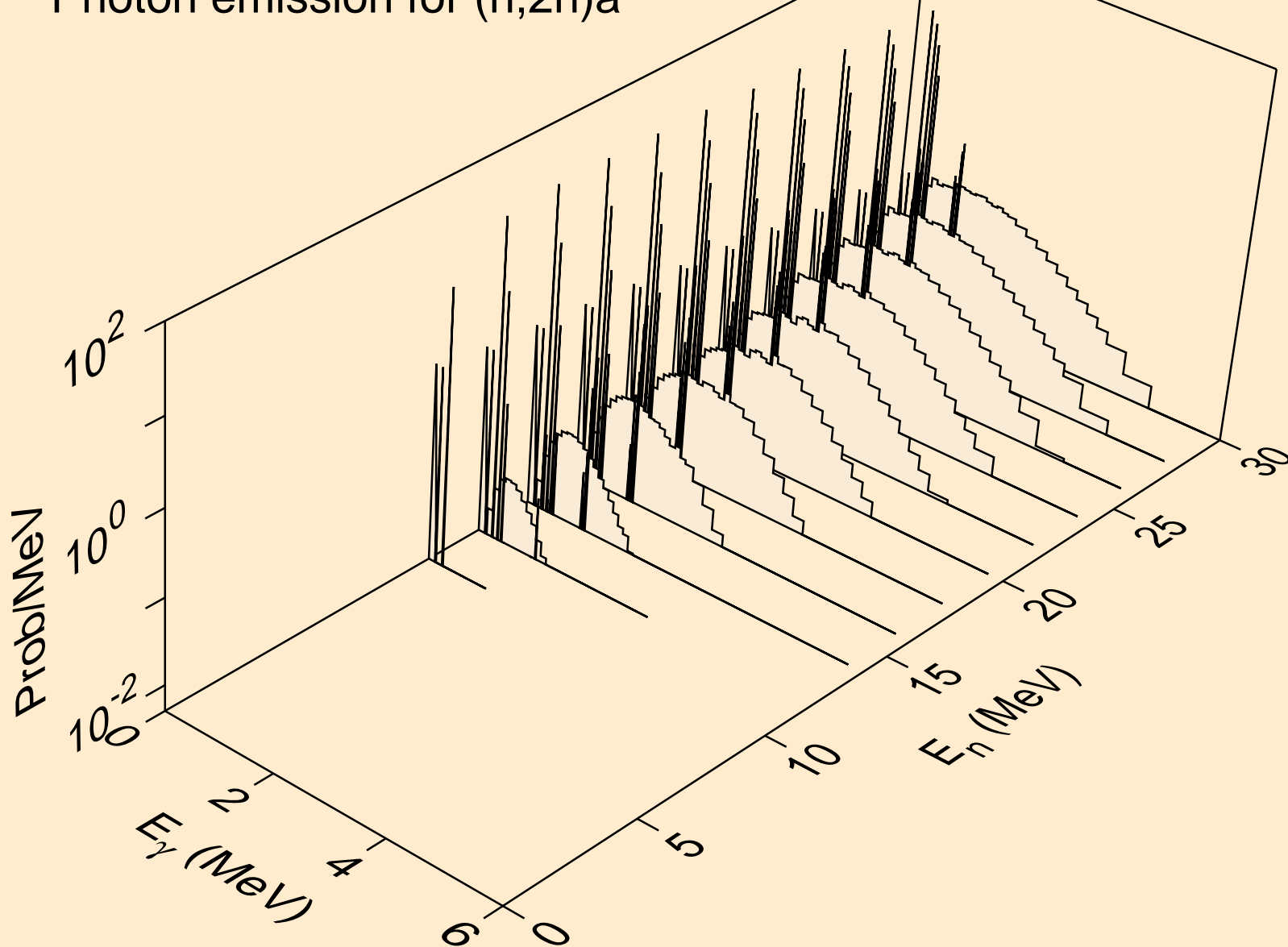


OS177 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,n\*)a

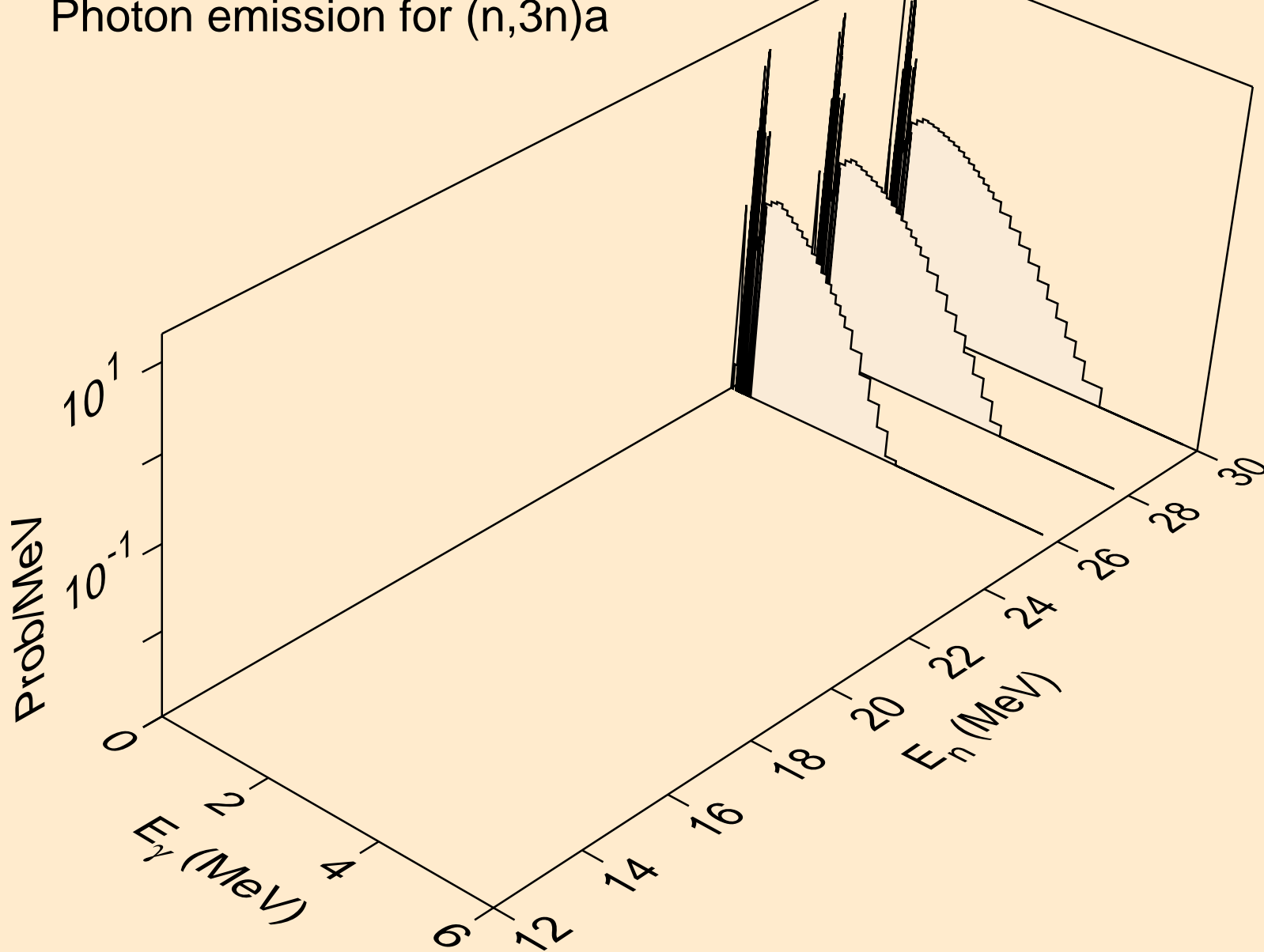




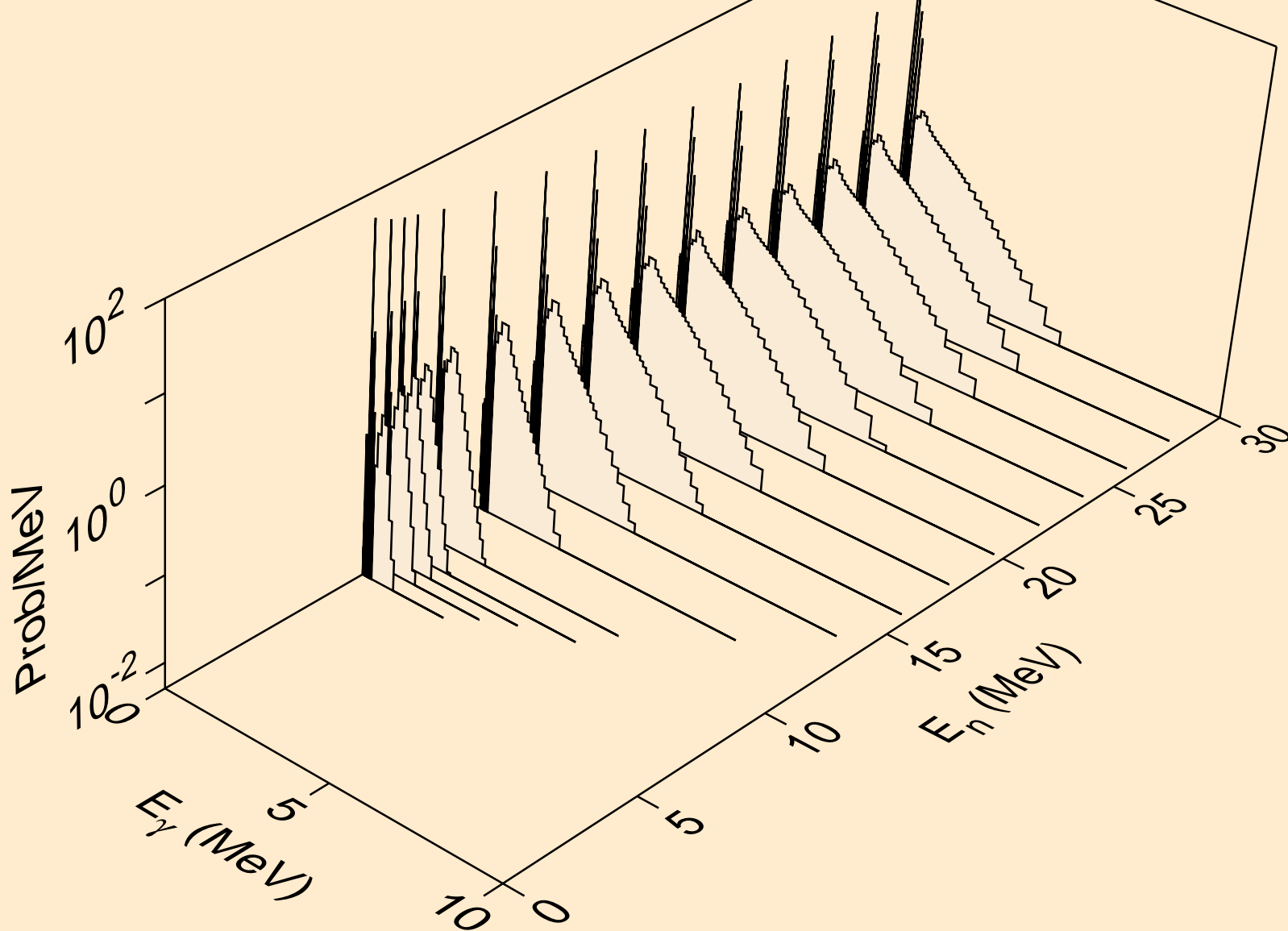
OS177 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,2n)a



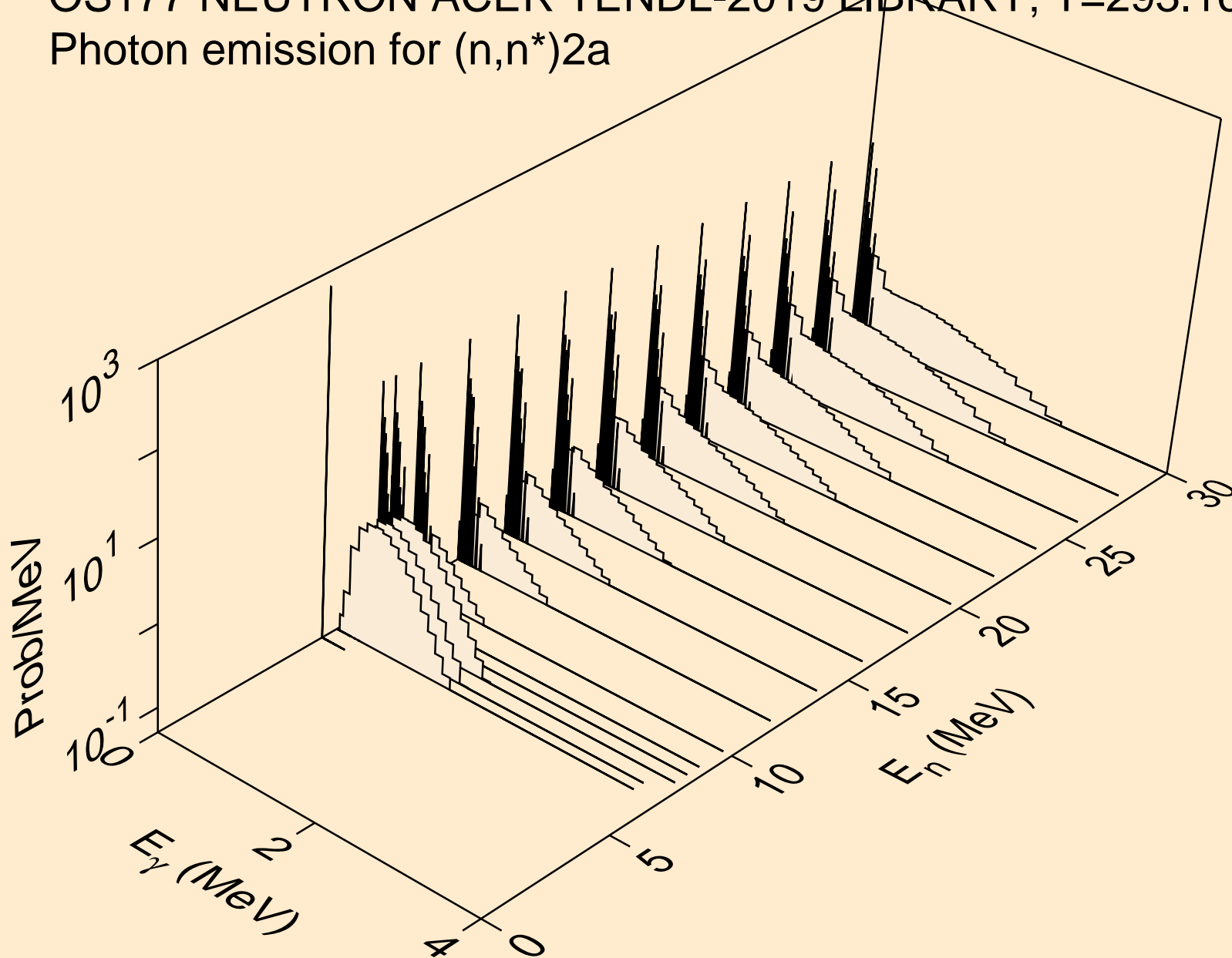
OS177 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,3n)a



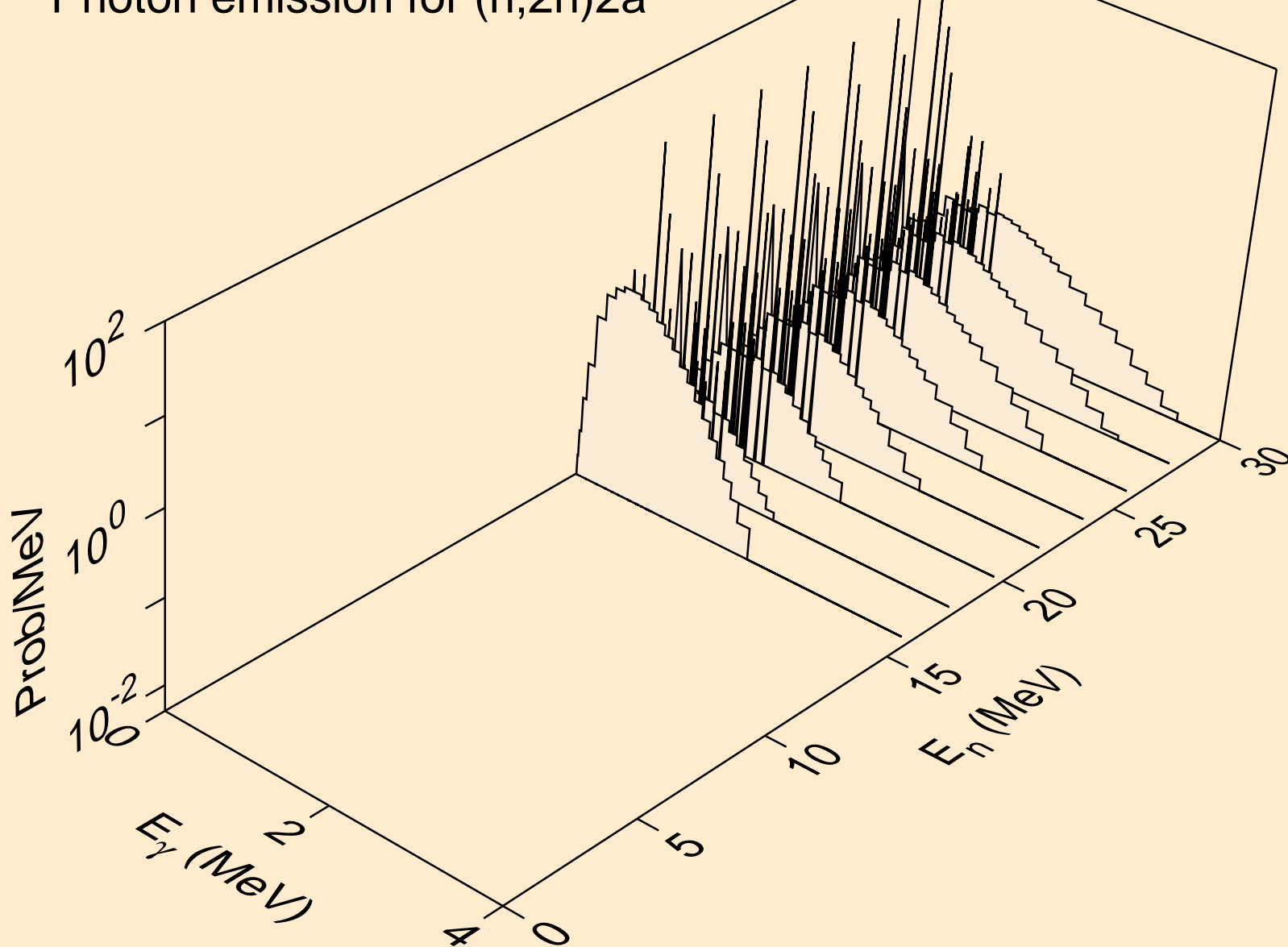
OS177 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,n\*)p



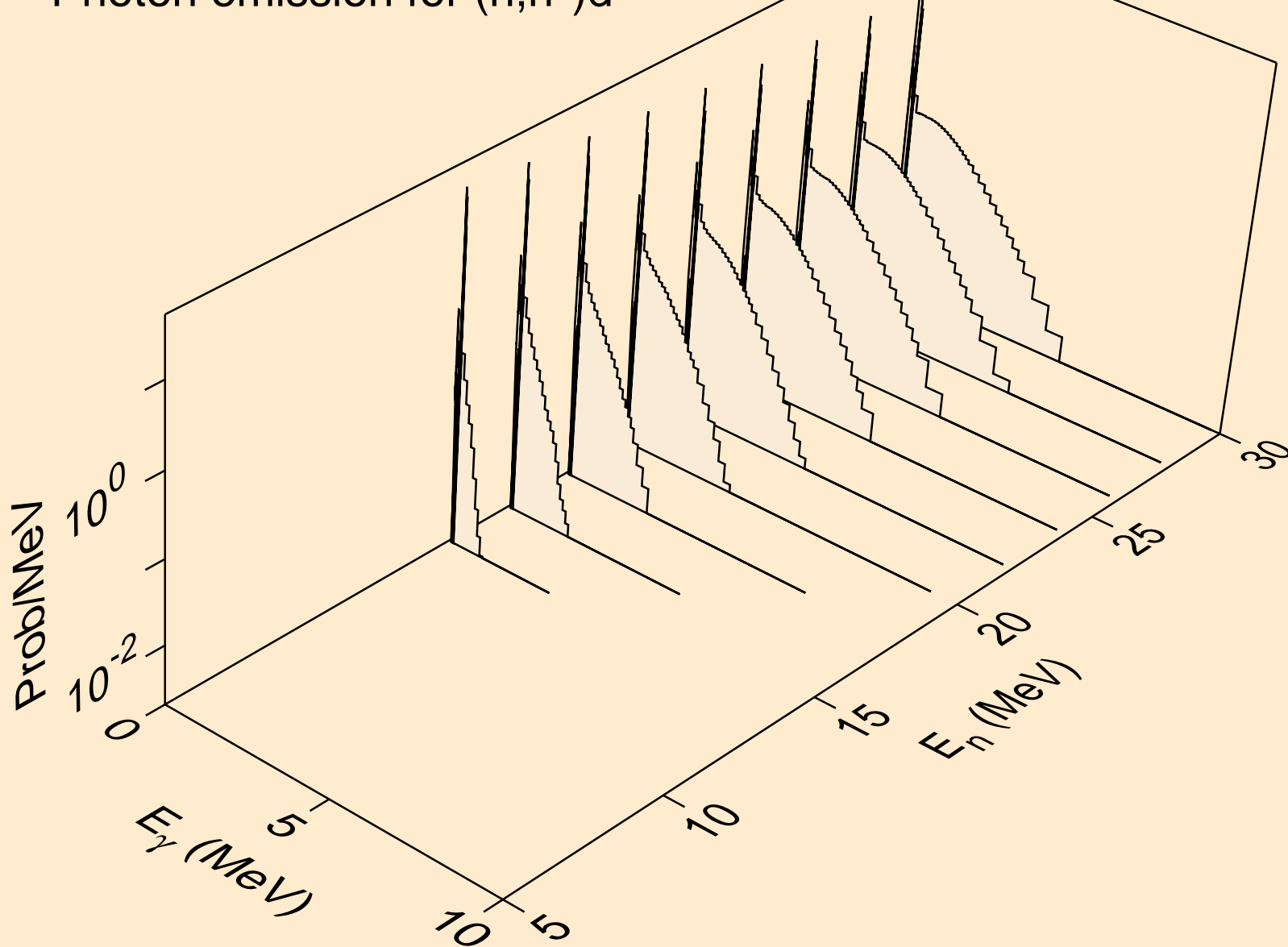
OS177 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,n\*)2a



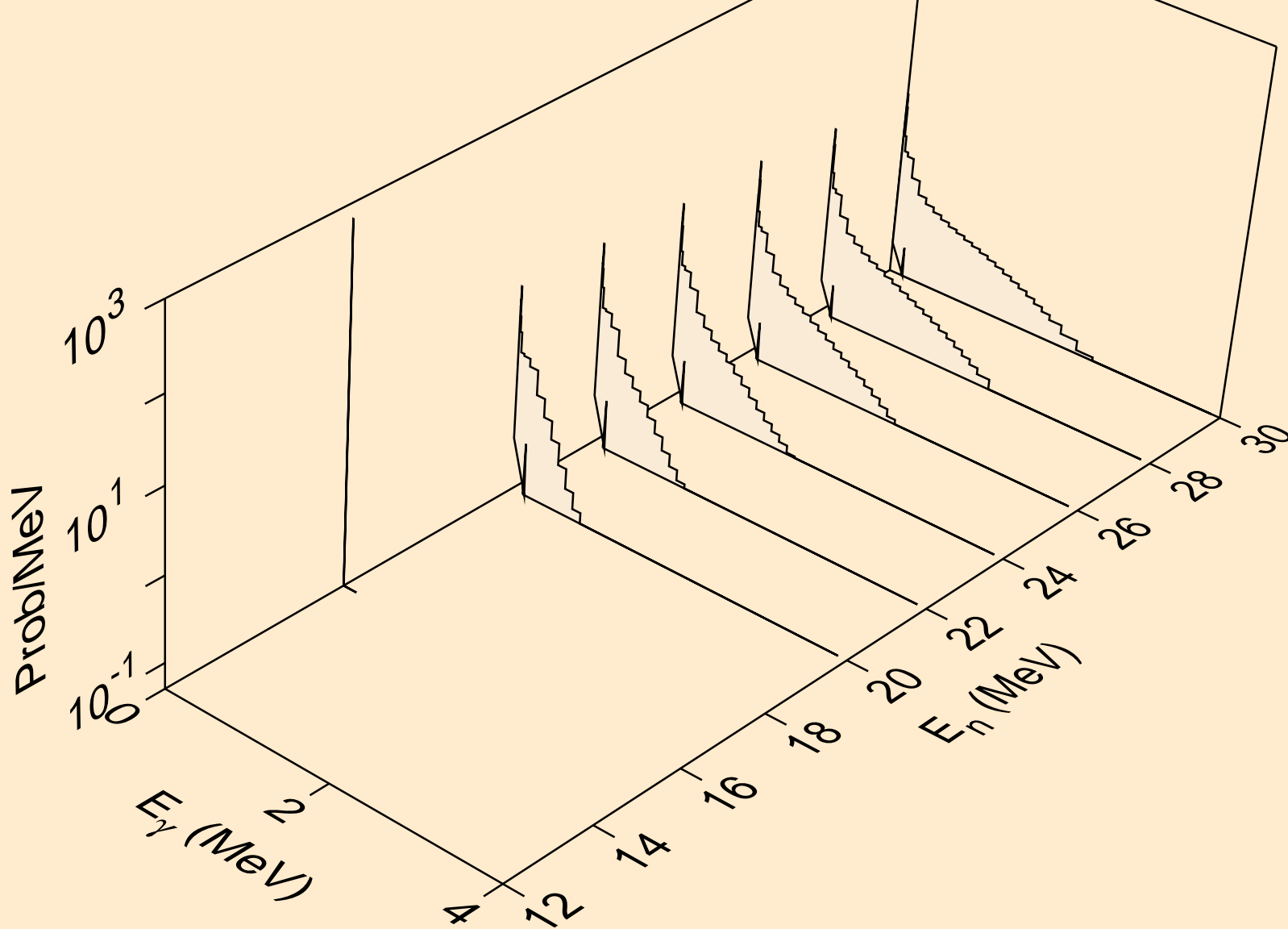
OS177 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,2n)2a



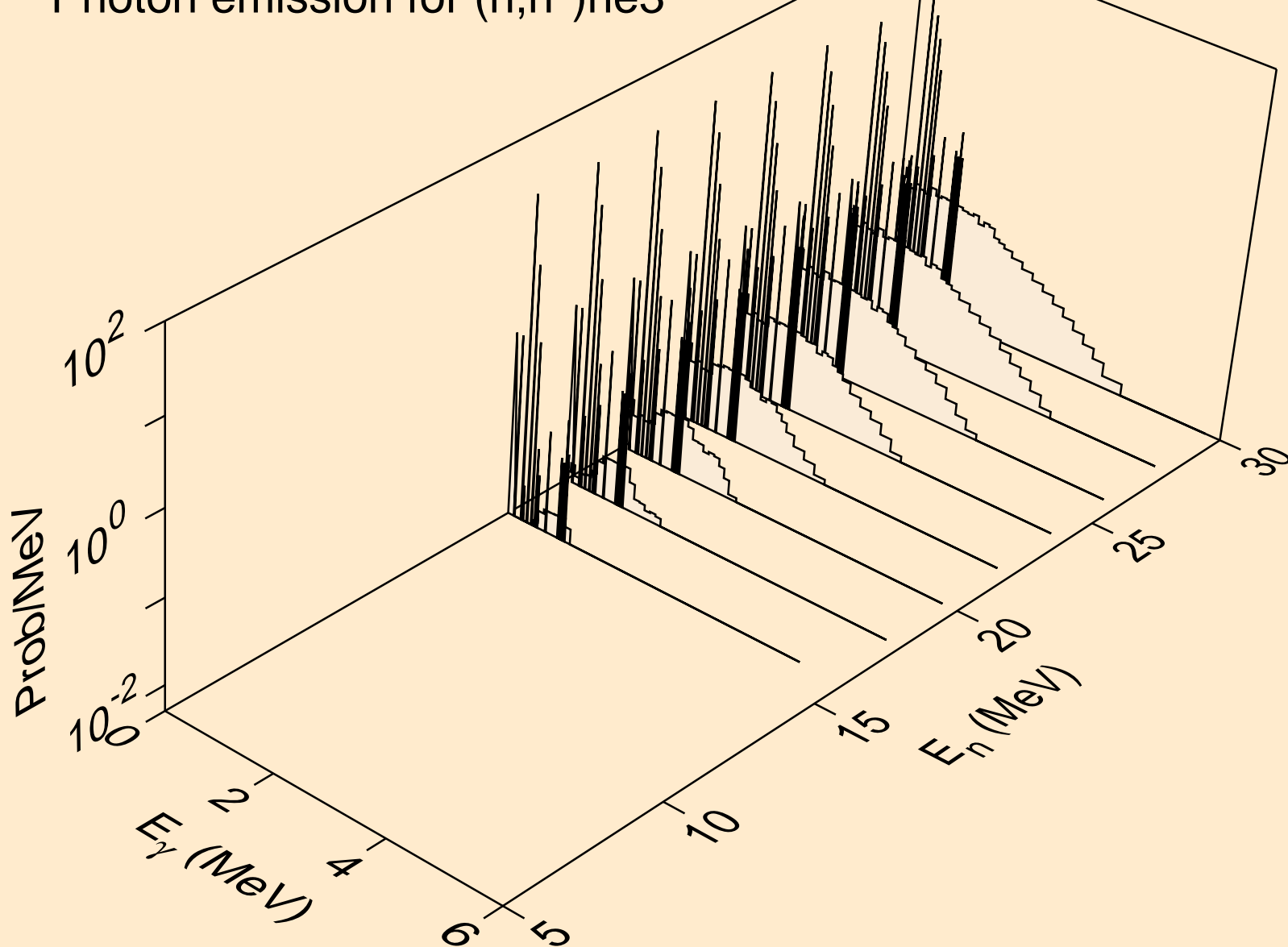
OS177 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,n\*)d



OS177 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,n\*)t

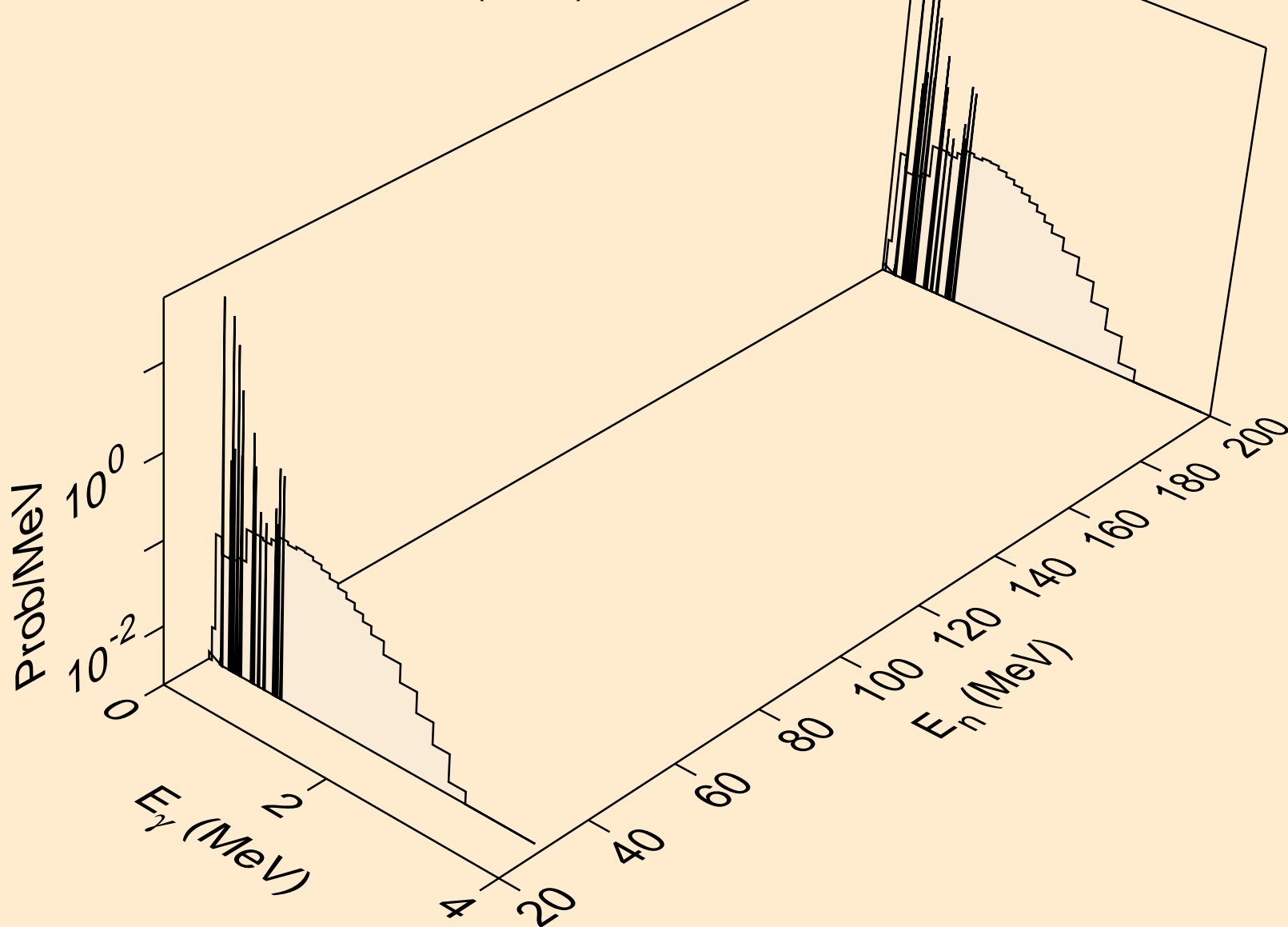


OS177 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,n\*)he3

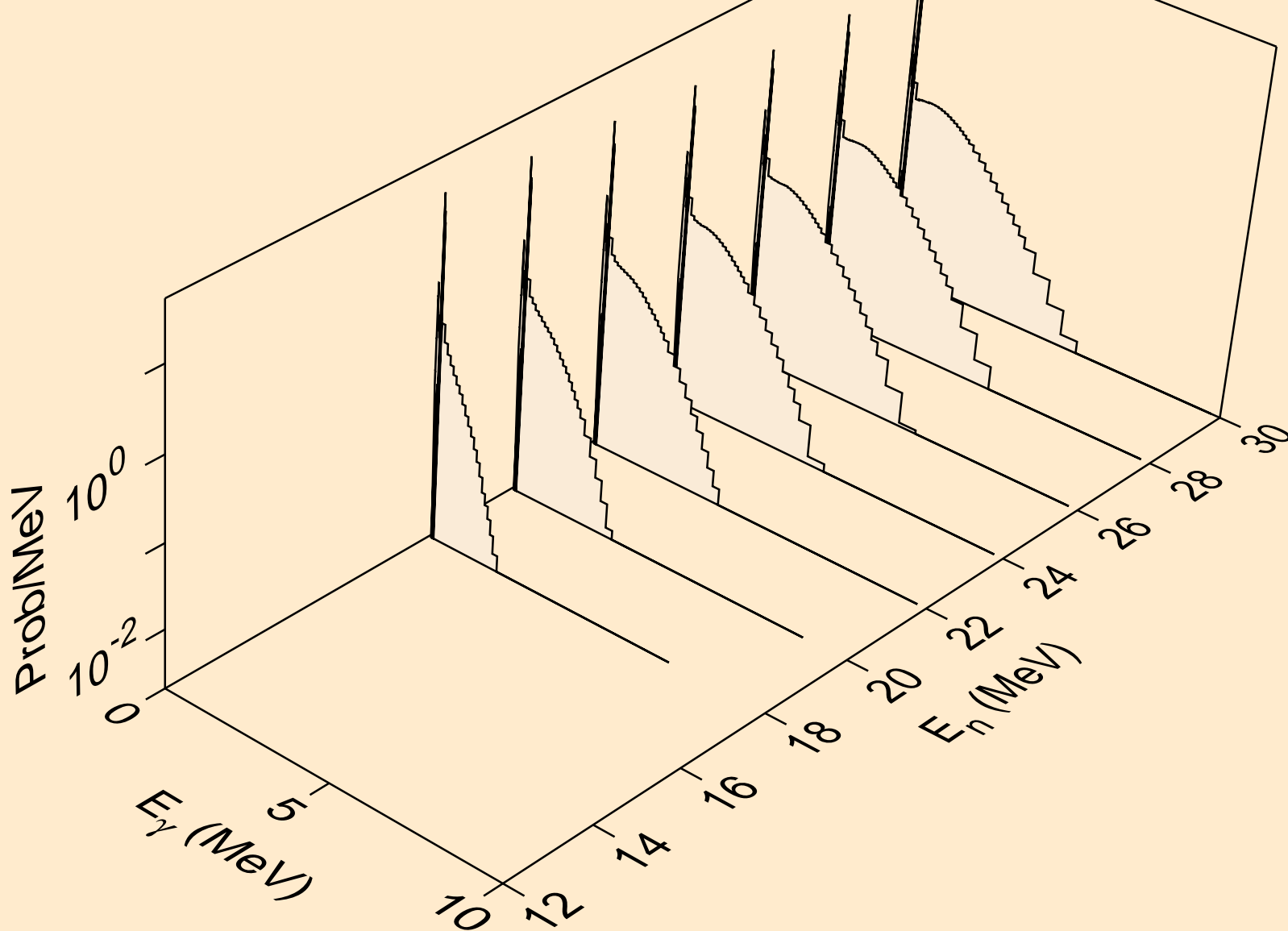




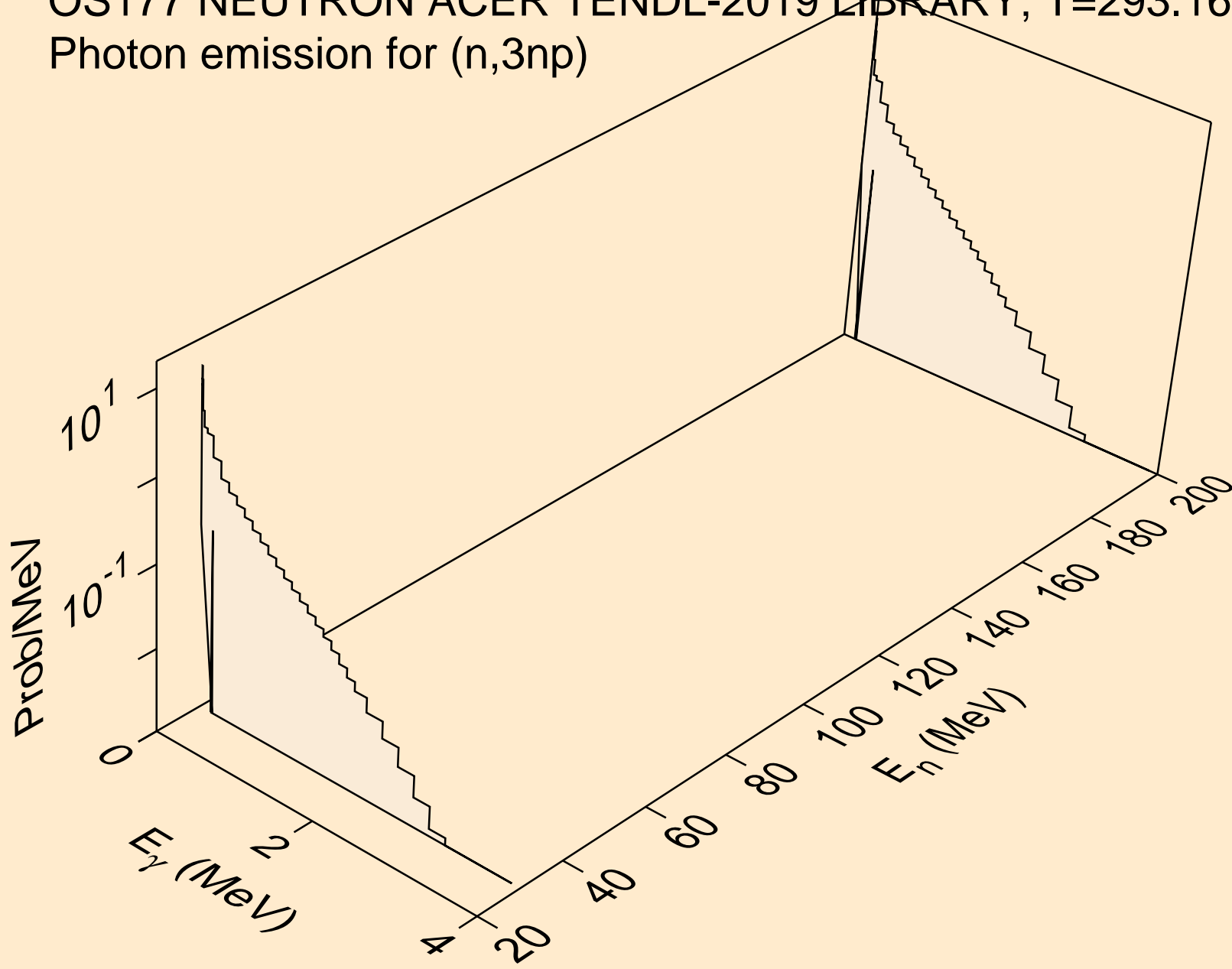
OS177 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,4n)



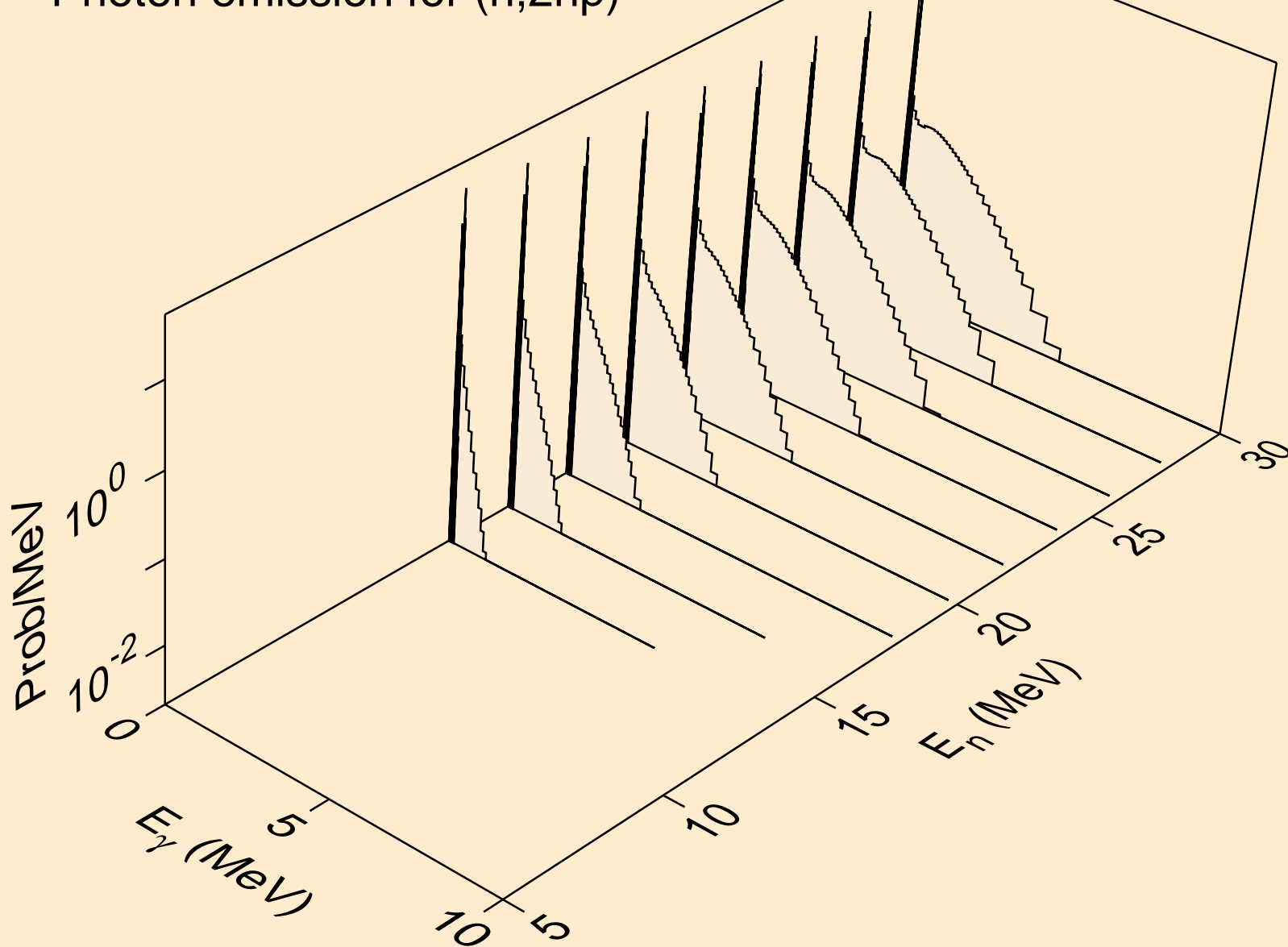
OS177 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,2np)



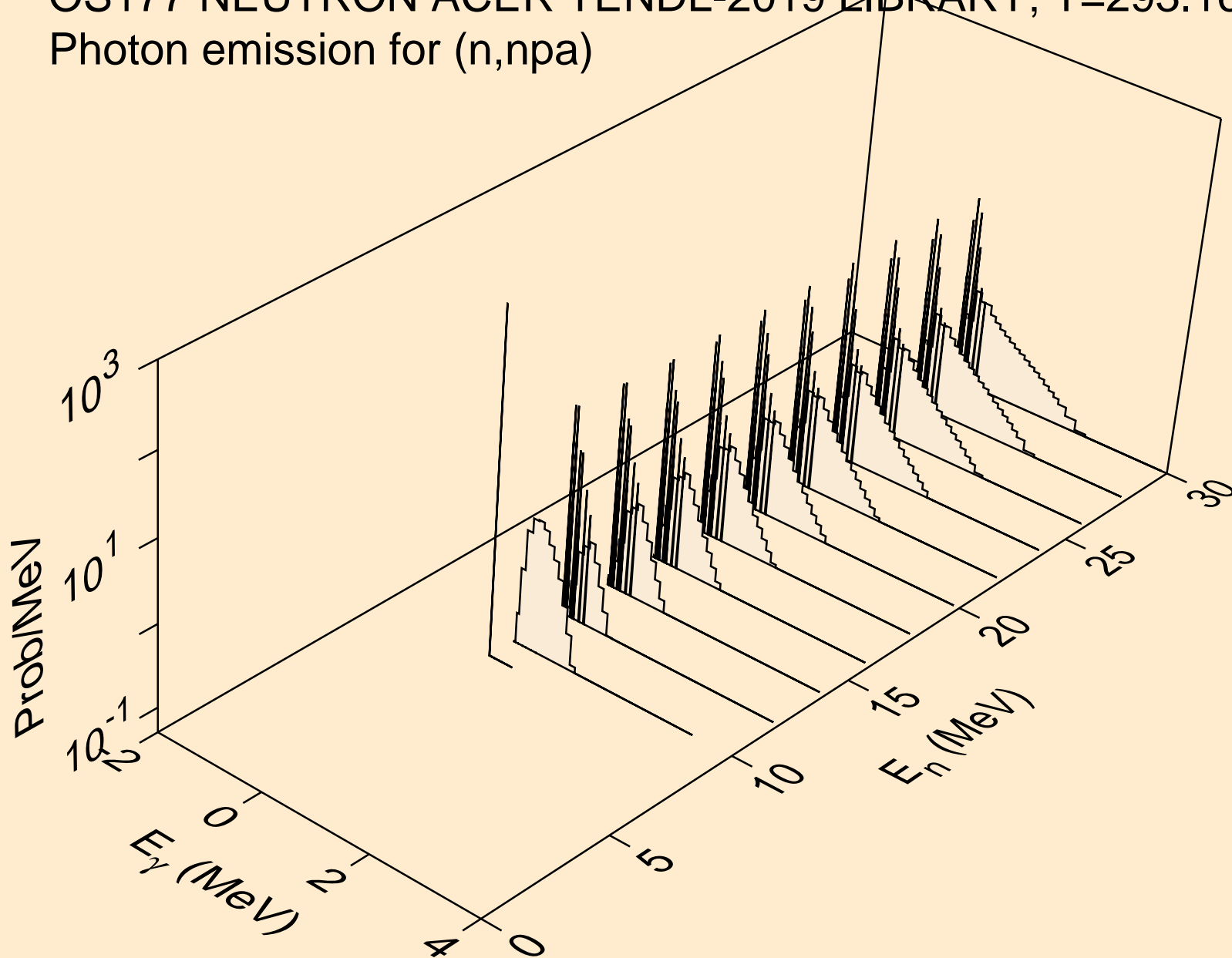
OS177 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,3np)



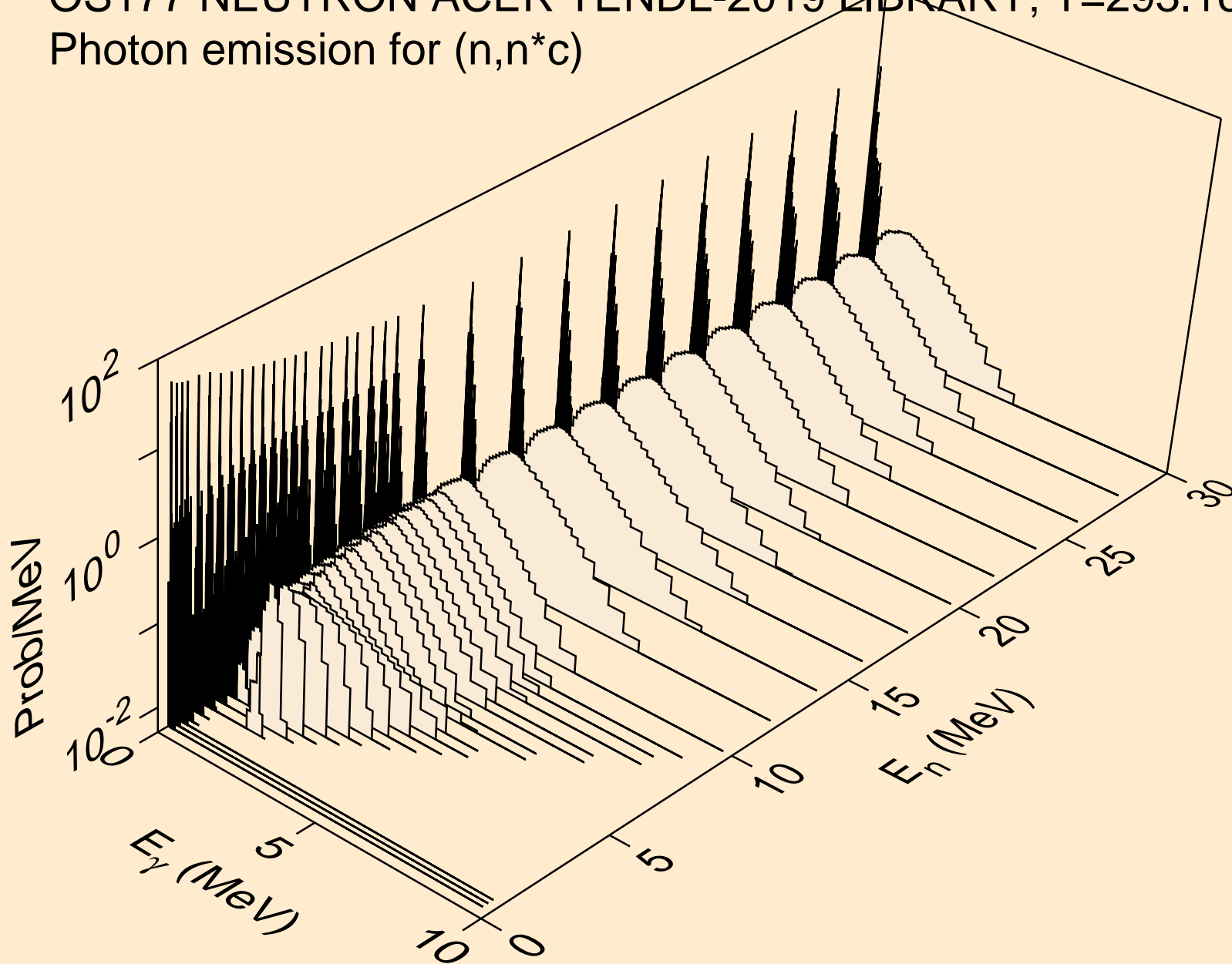
OS177 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,2np)



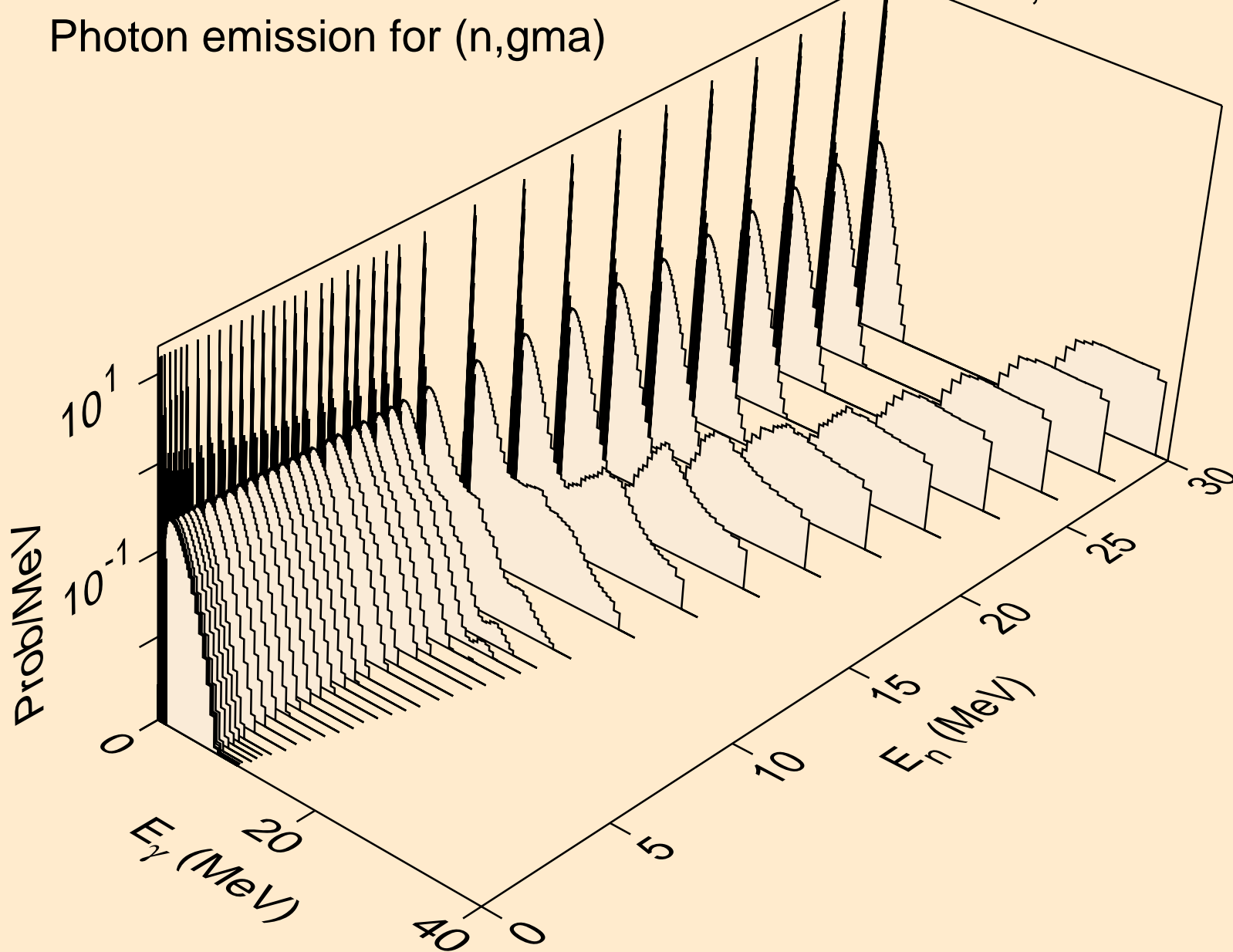
OS177 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,npa)



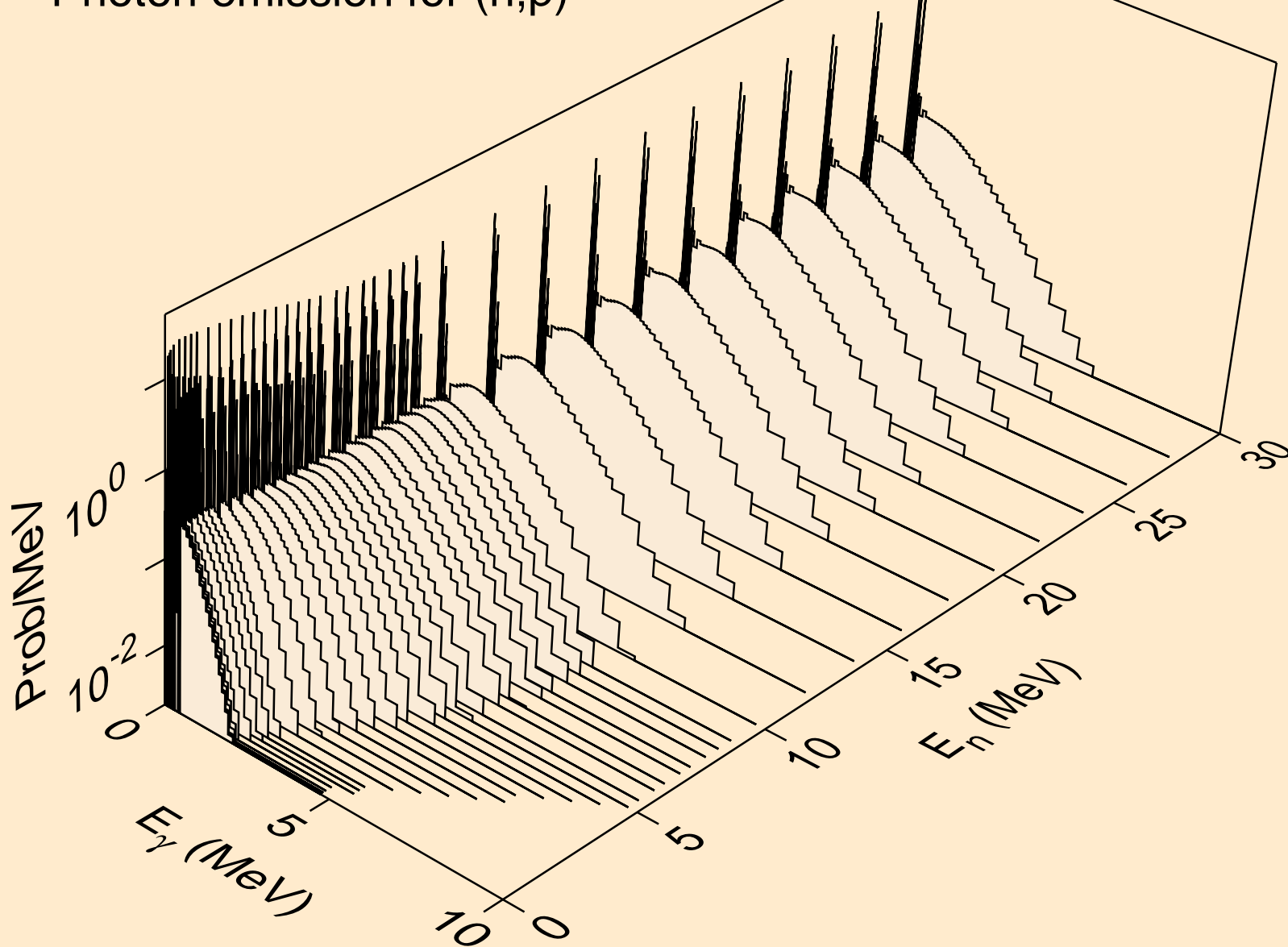
OS177 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,n\*c)



OS177 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,gma)

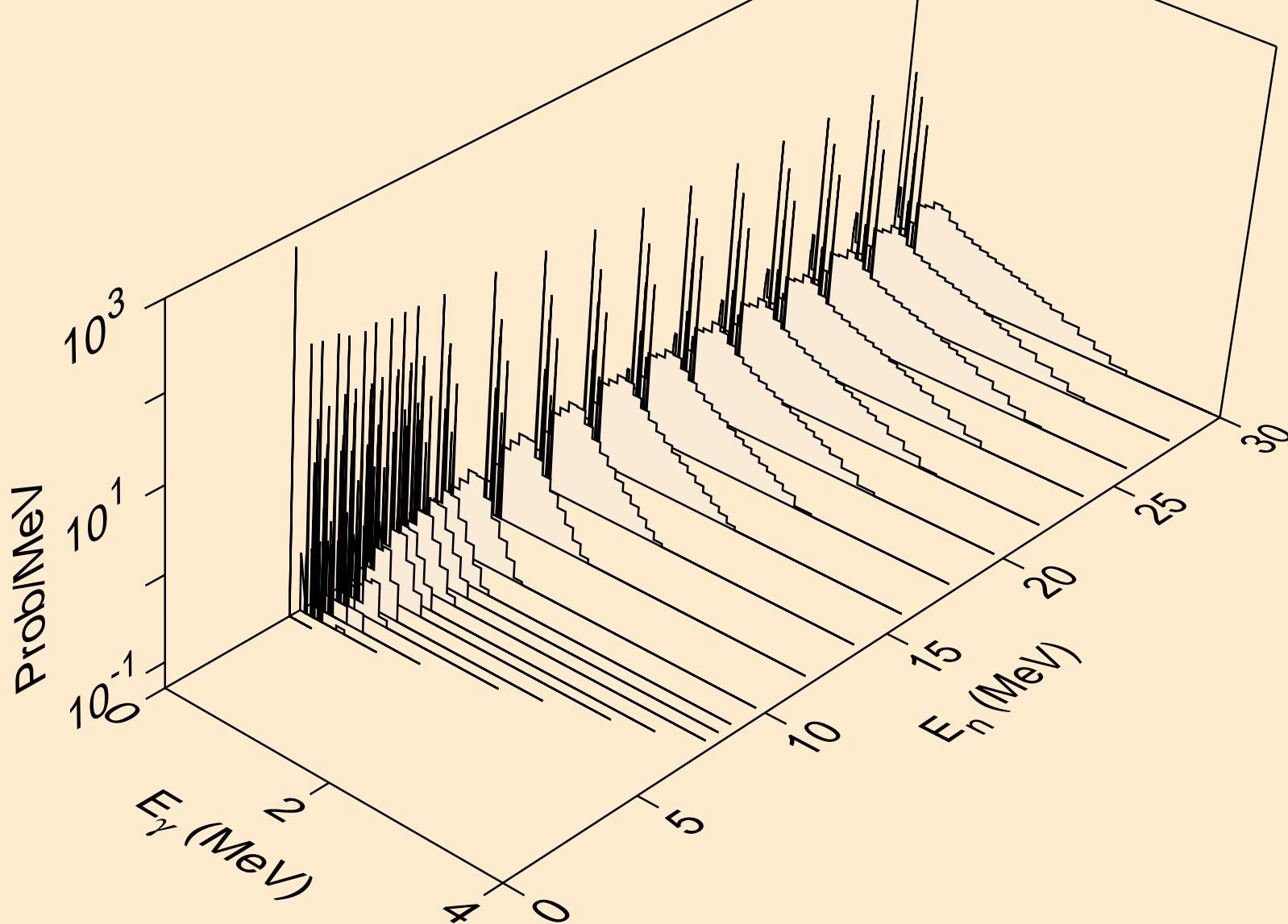


OS177 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,p)

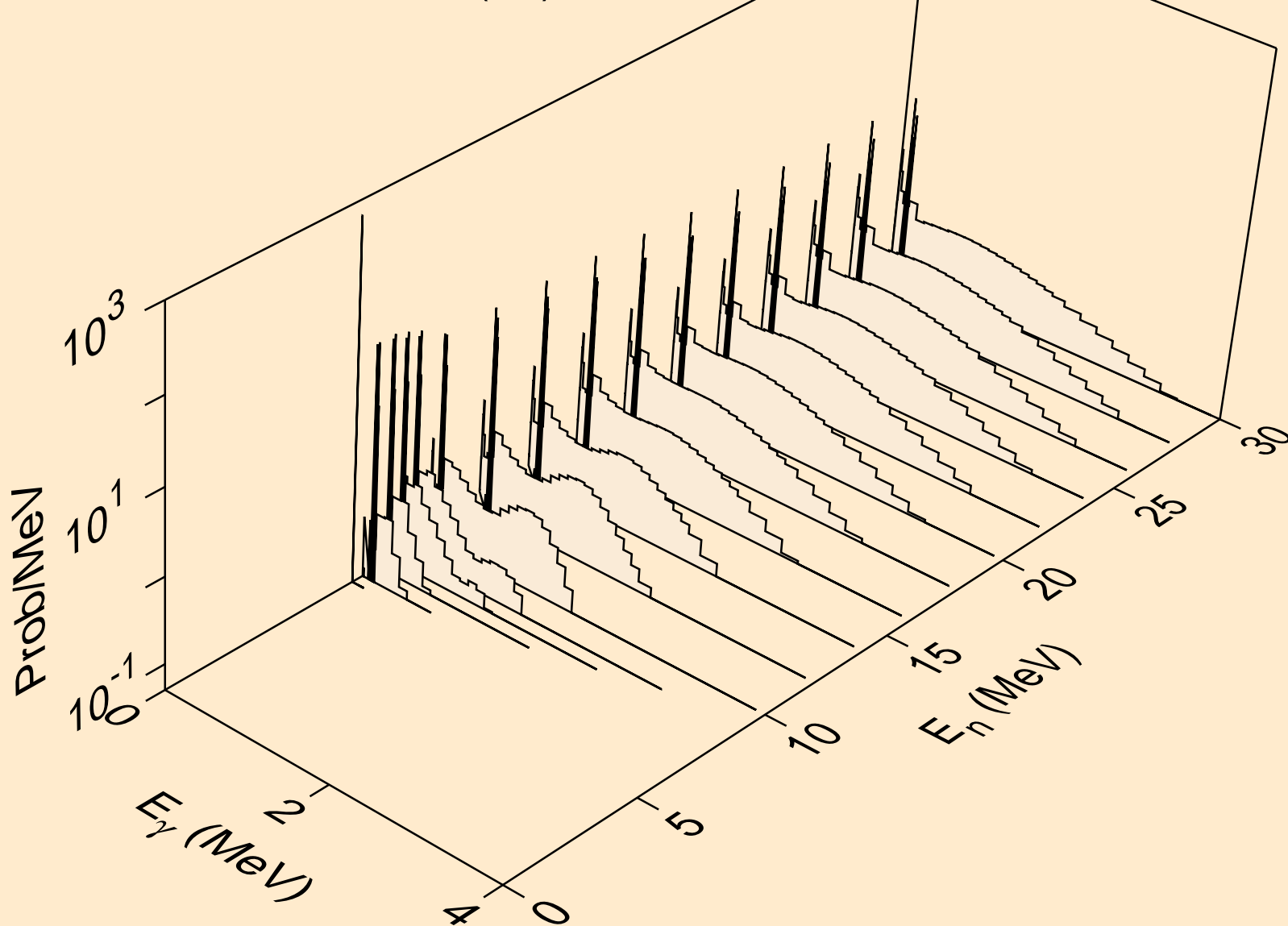




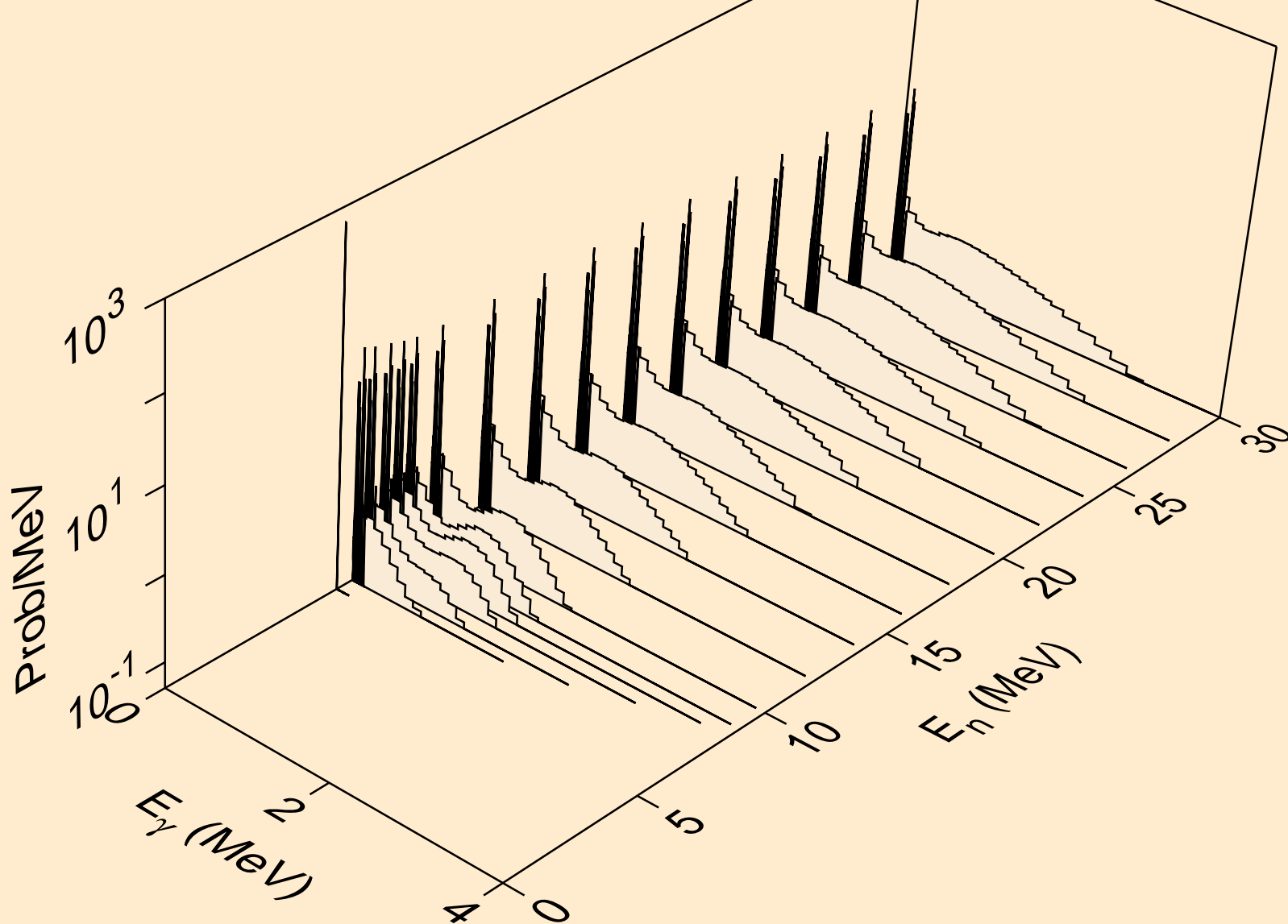
OS177 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,d)



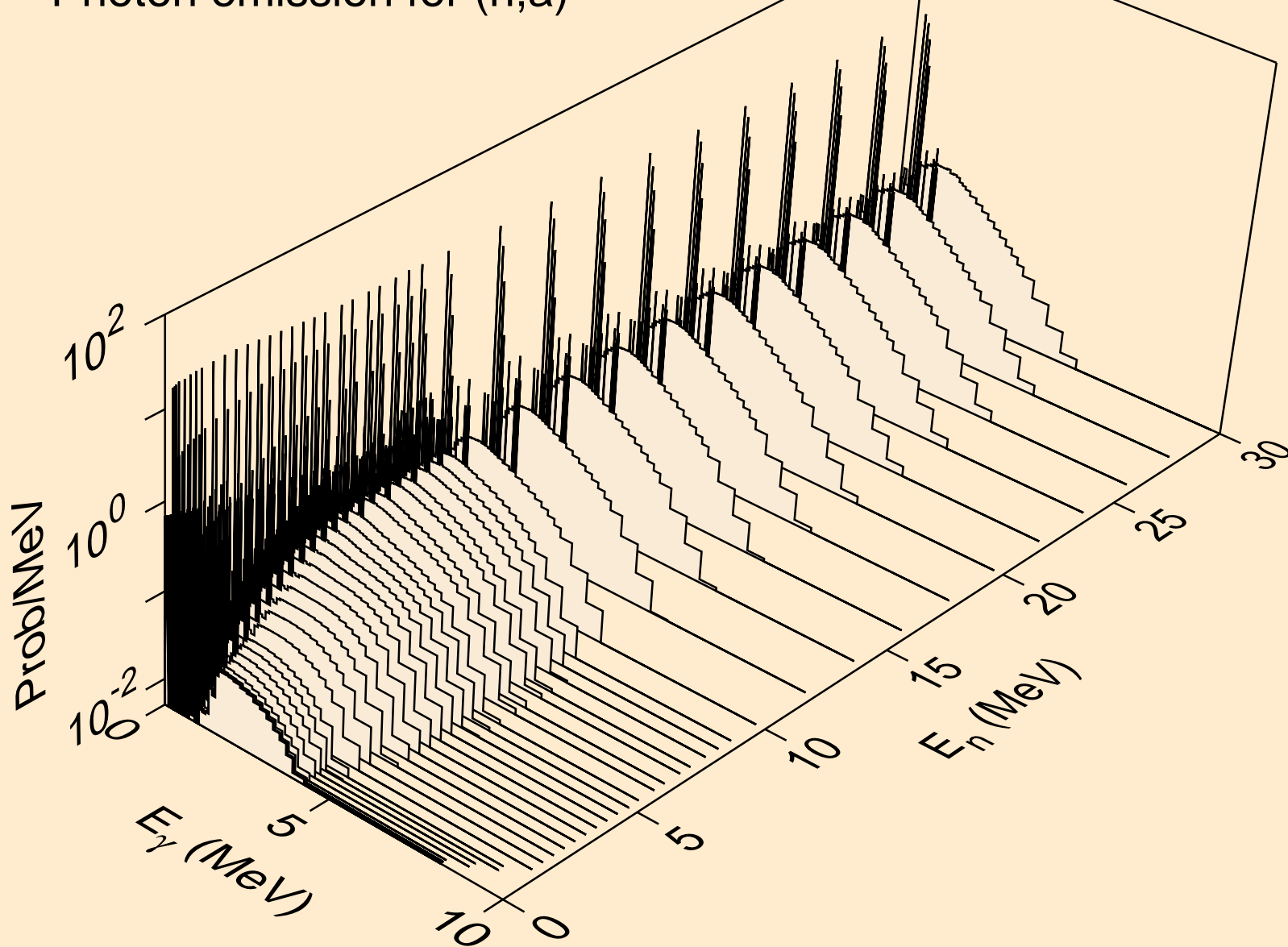
OS177 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,t)



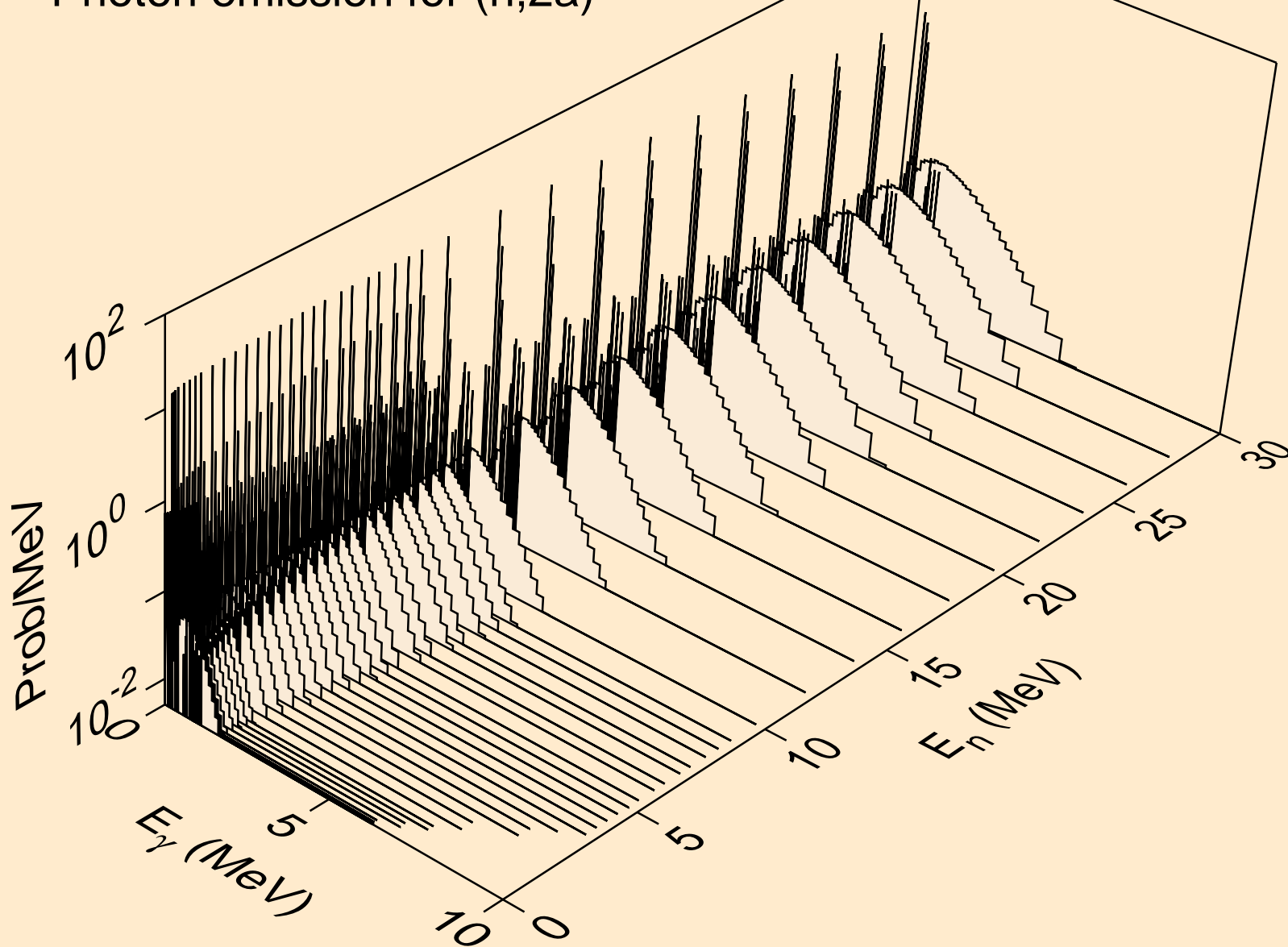
OS177 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,he3)



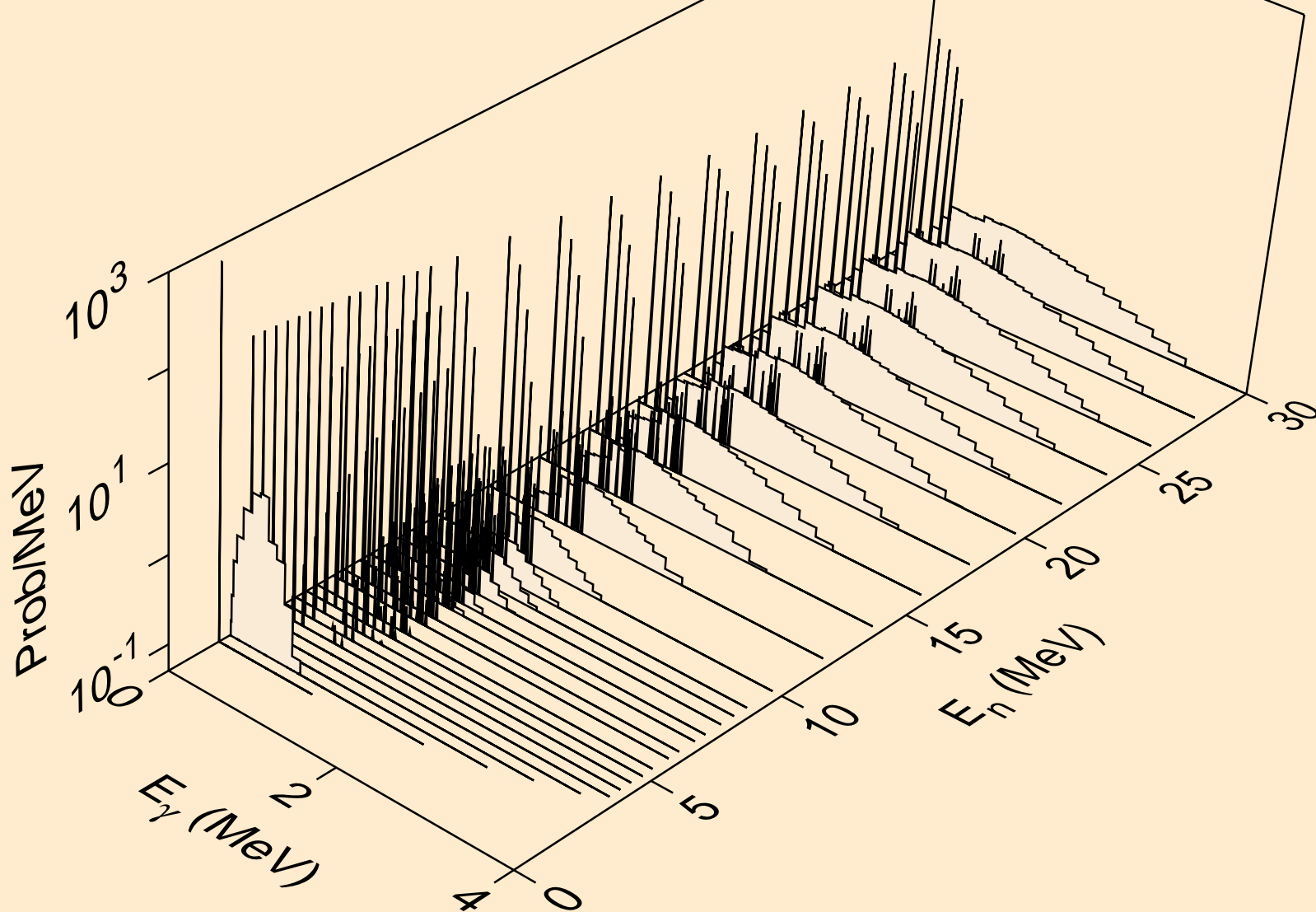
OS177 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,a)



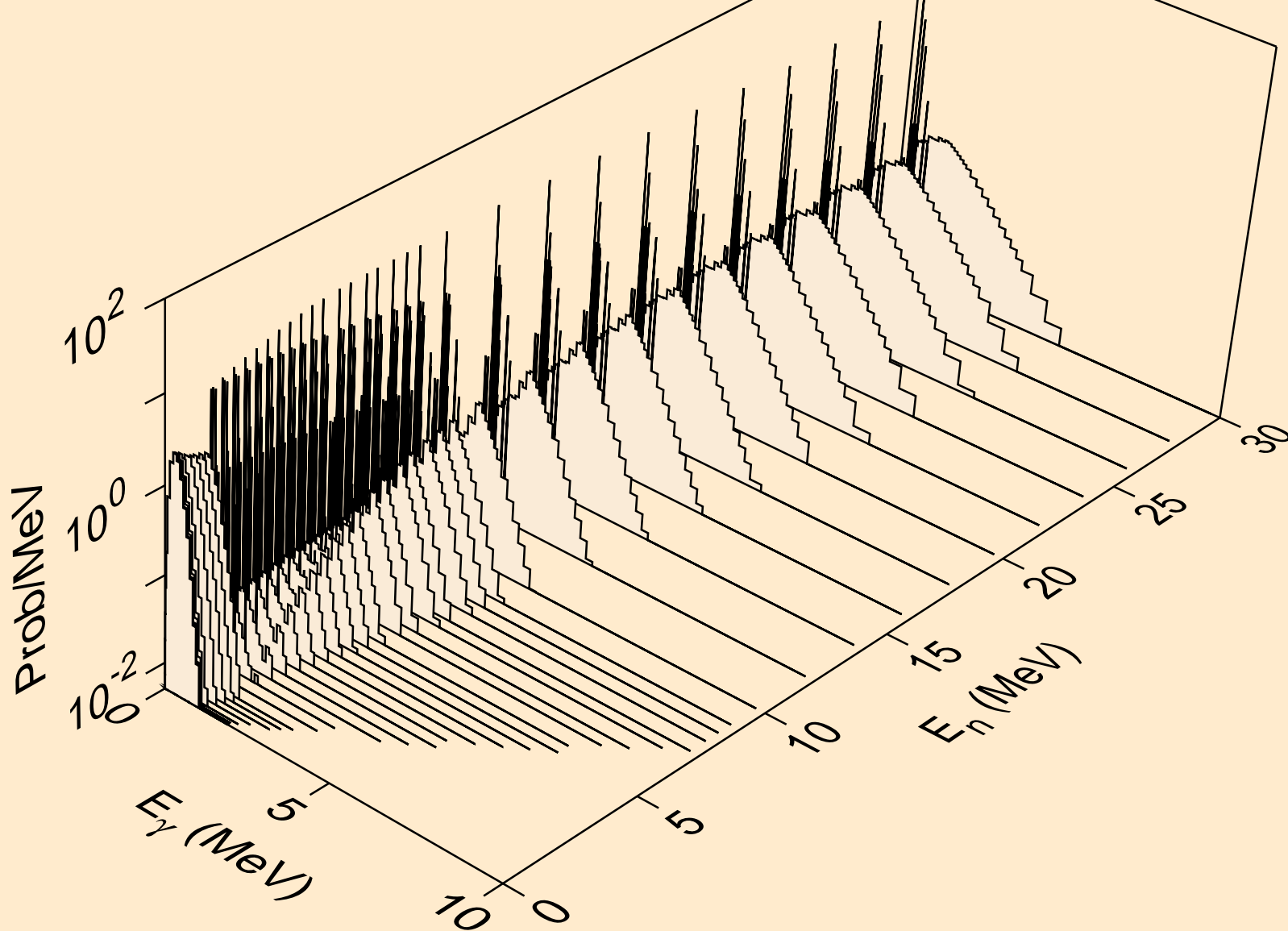
OS177 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,2a)



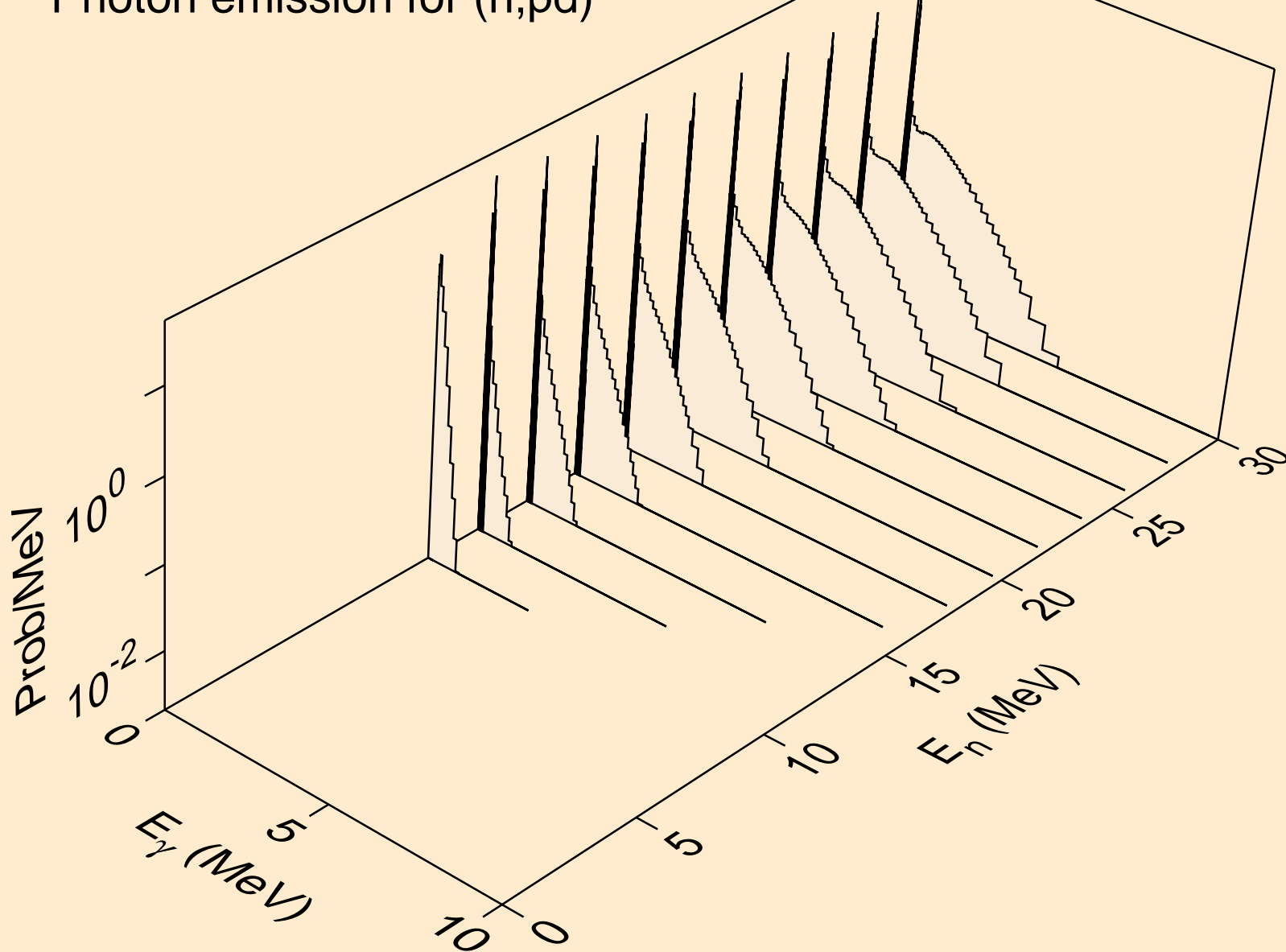
OS177 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,2p)



OS177 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,p $\alpha$ )

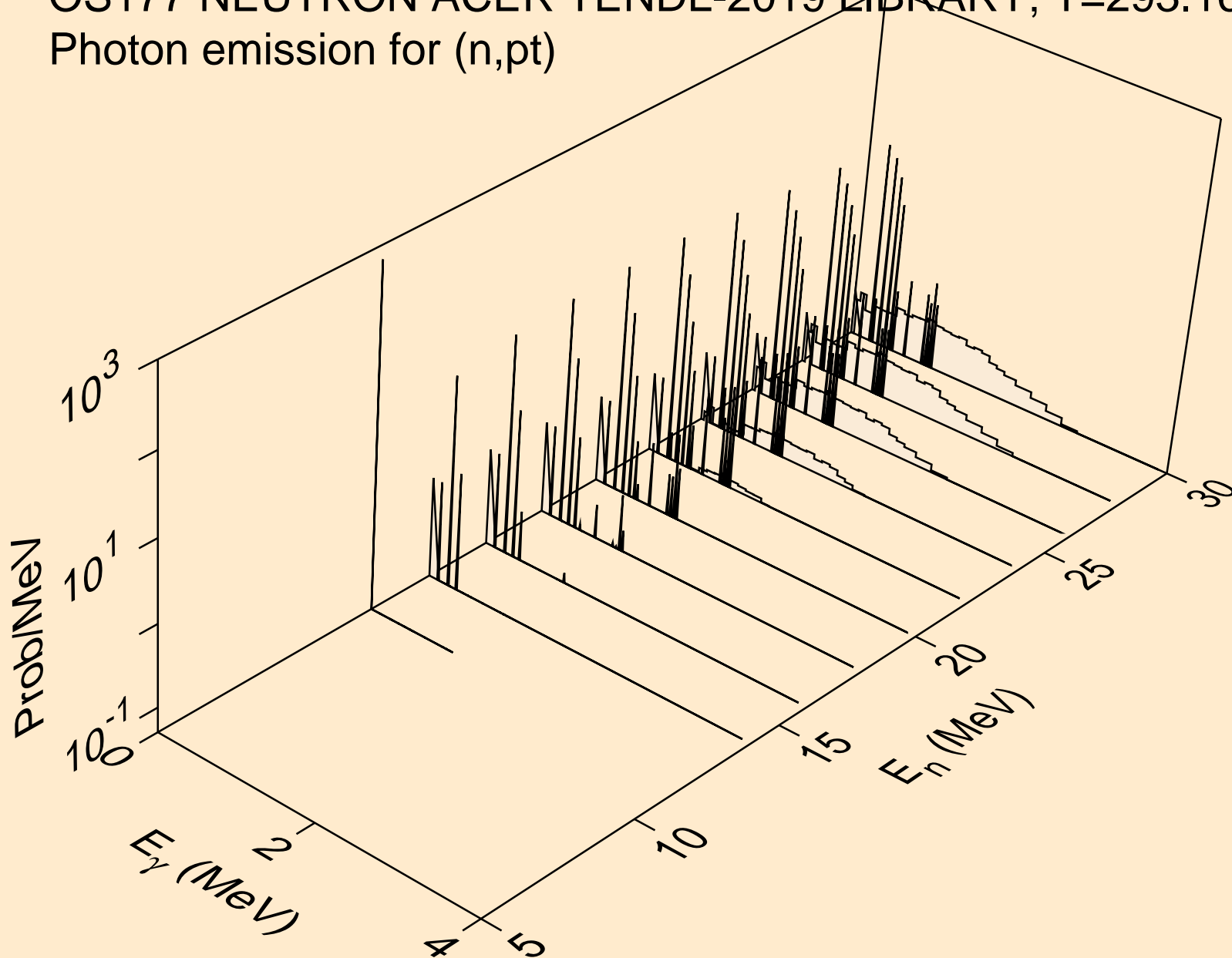


OS177 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,pd)

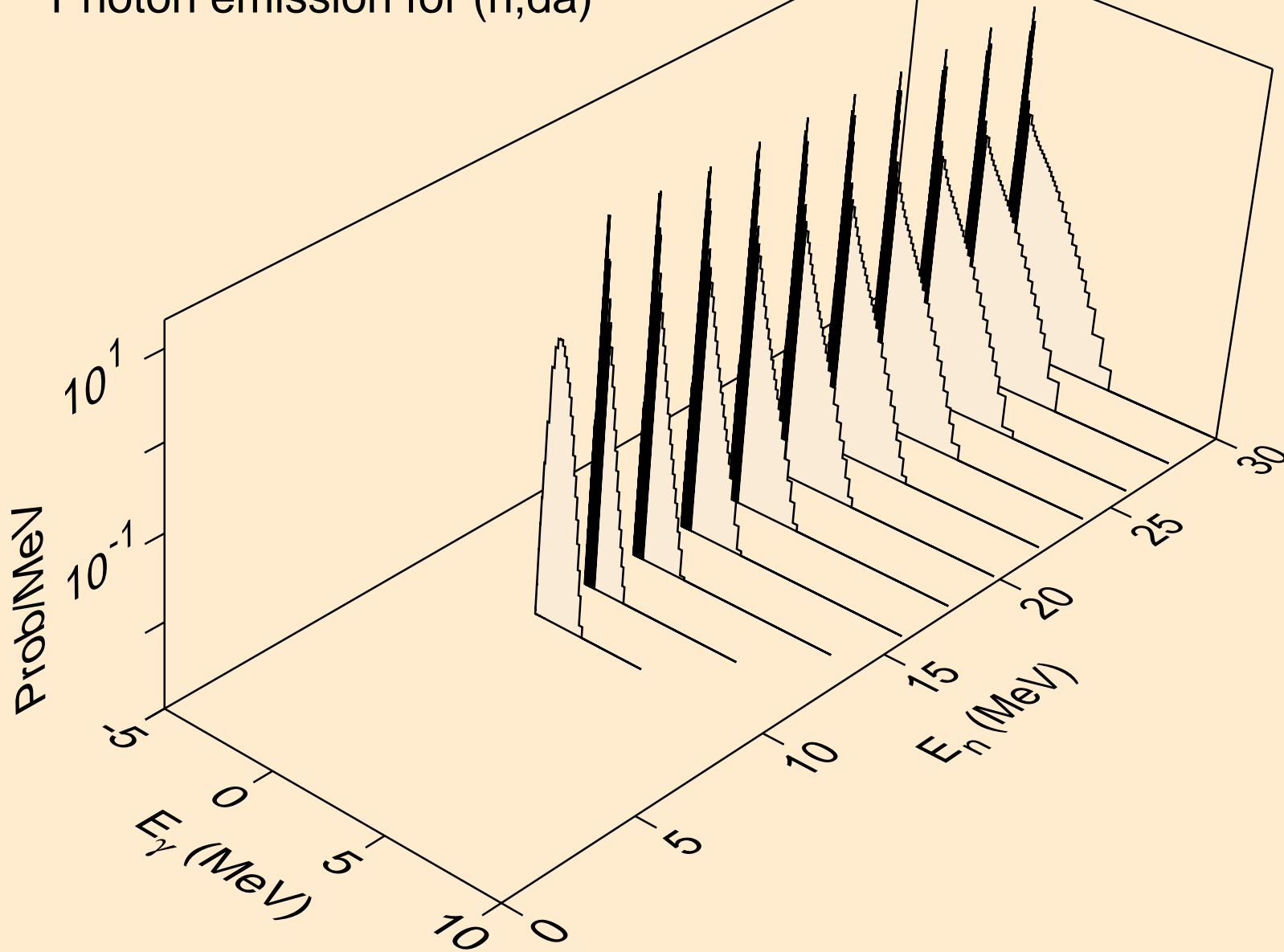




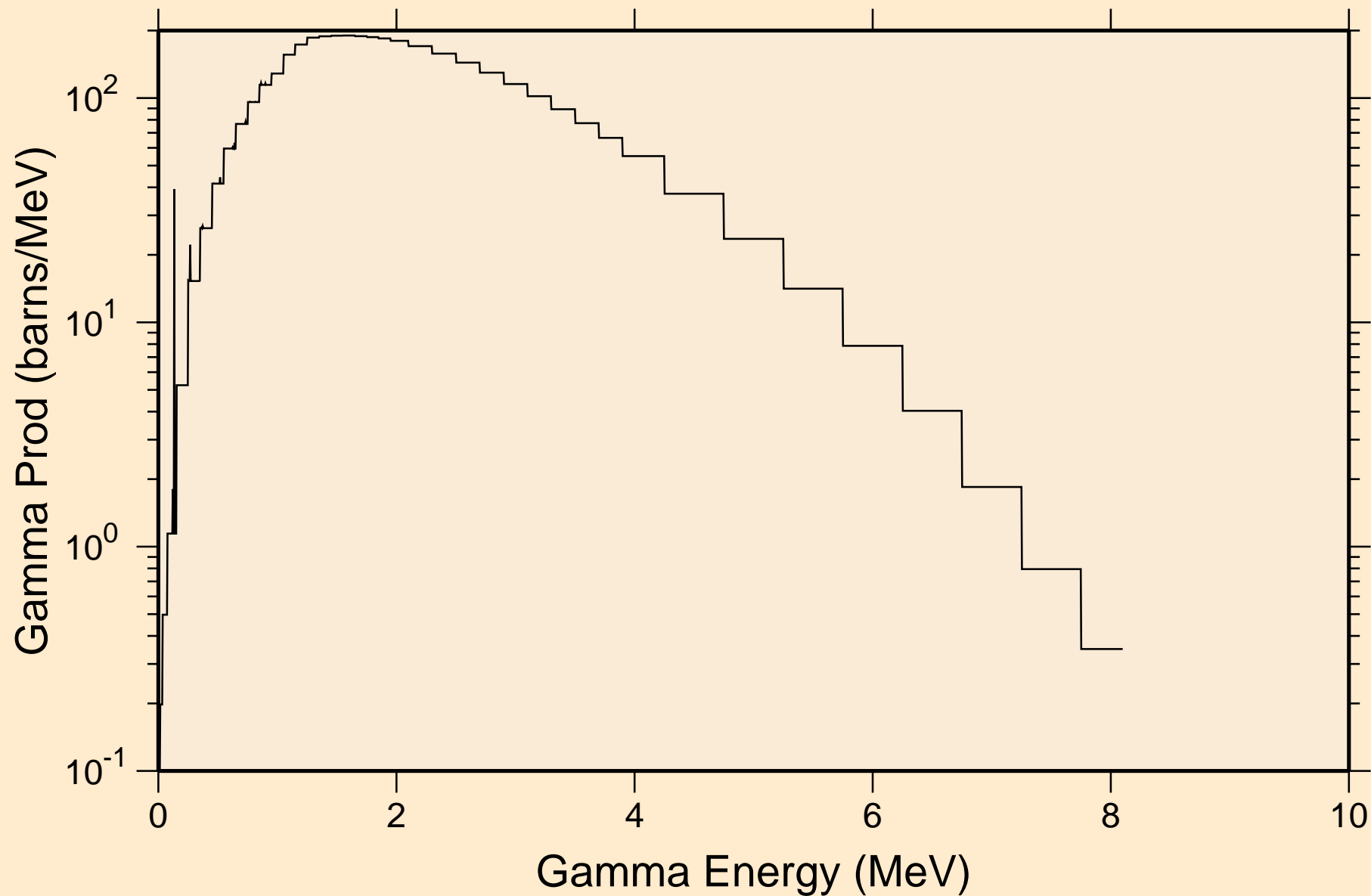
OS177 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,pt)



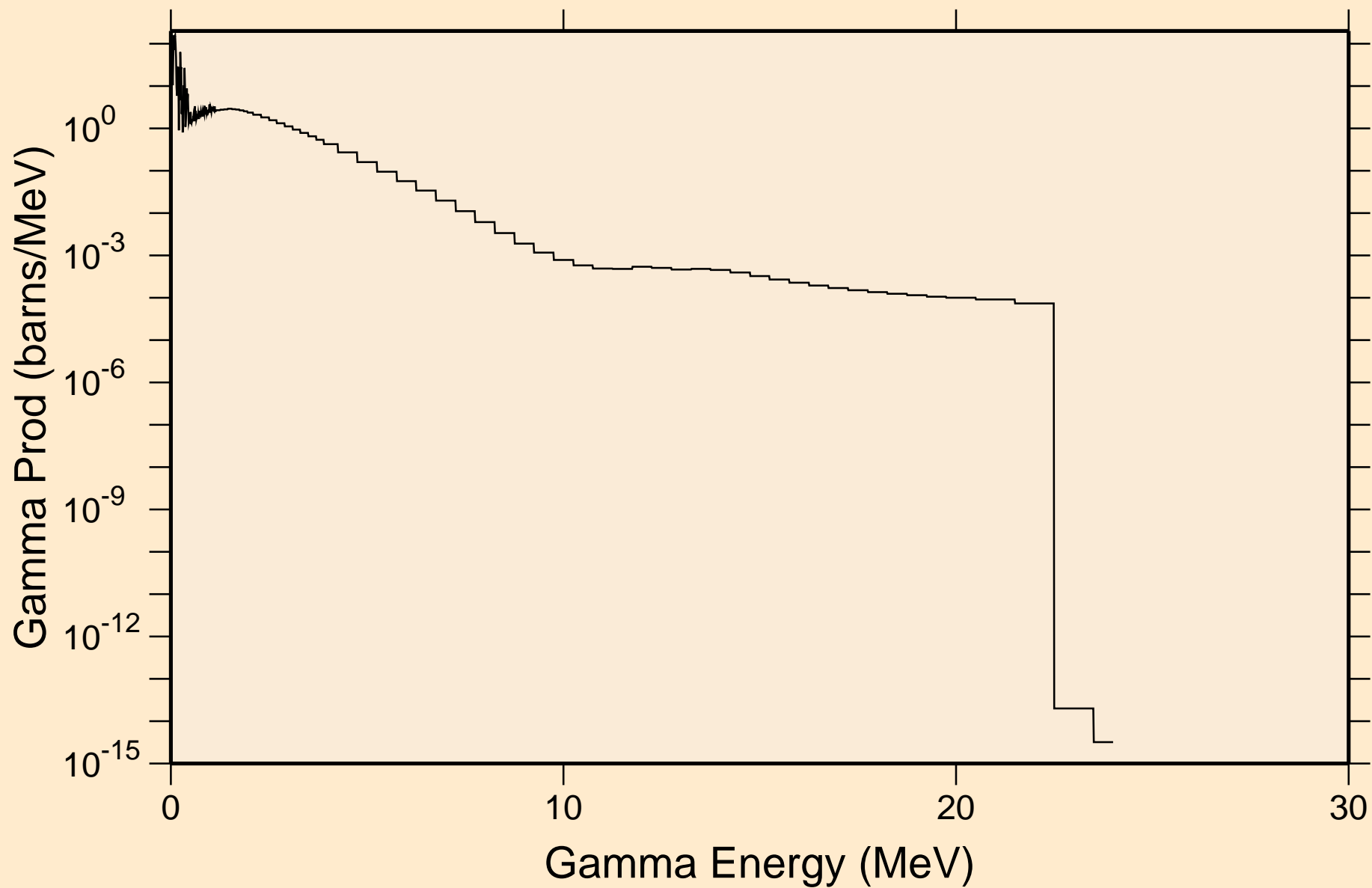
OS177 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,da)



OS177 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
thermal capture photon spectrum

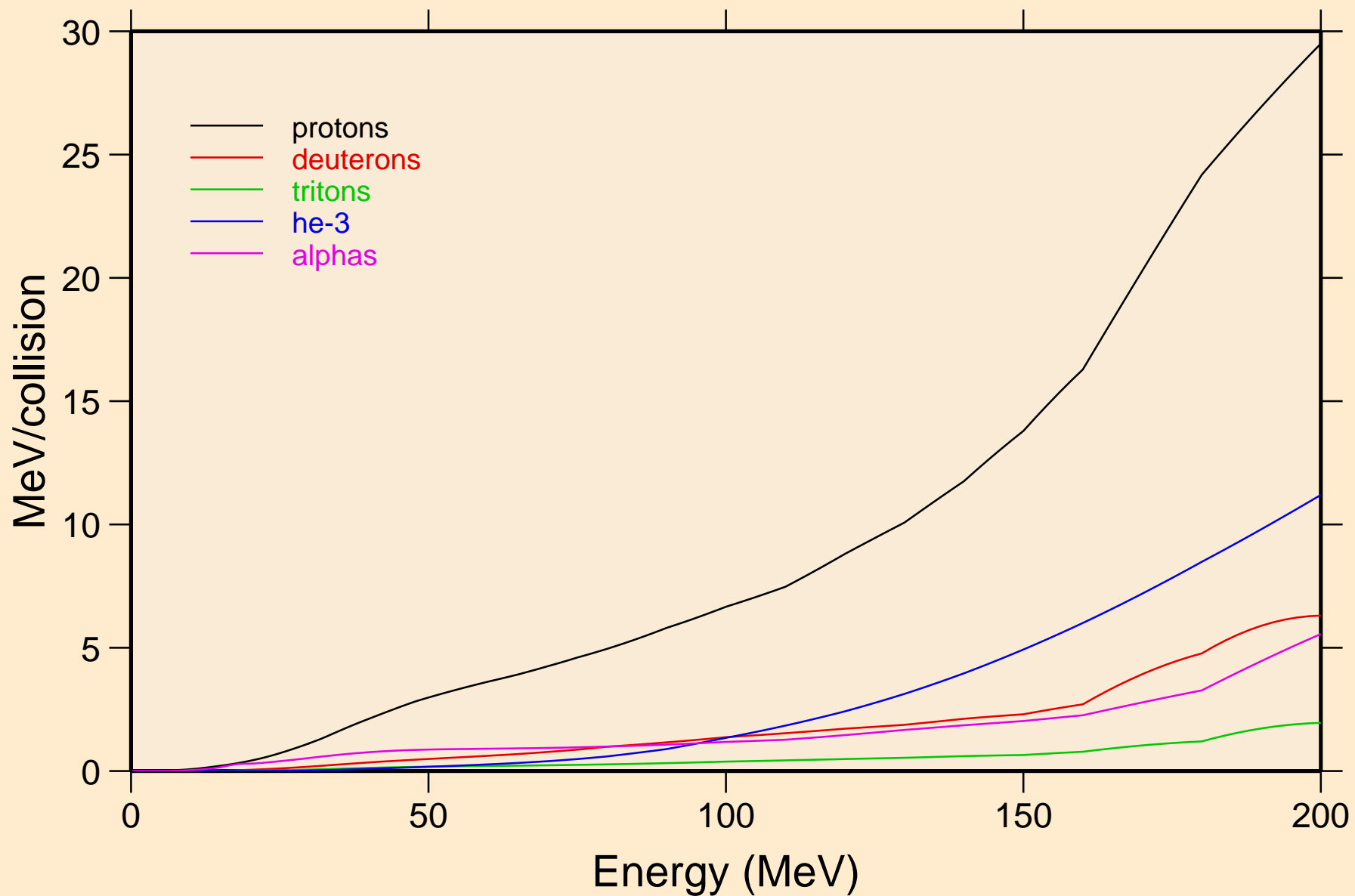


OS177 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
14 MeV photon spectrum

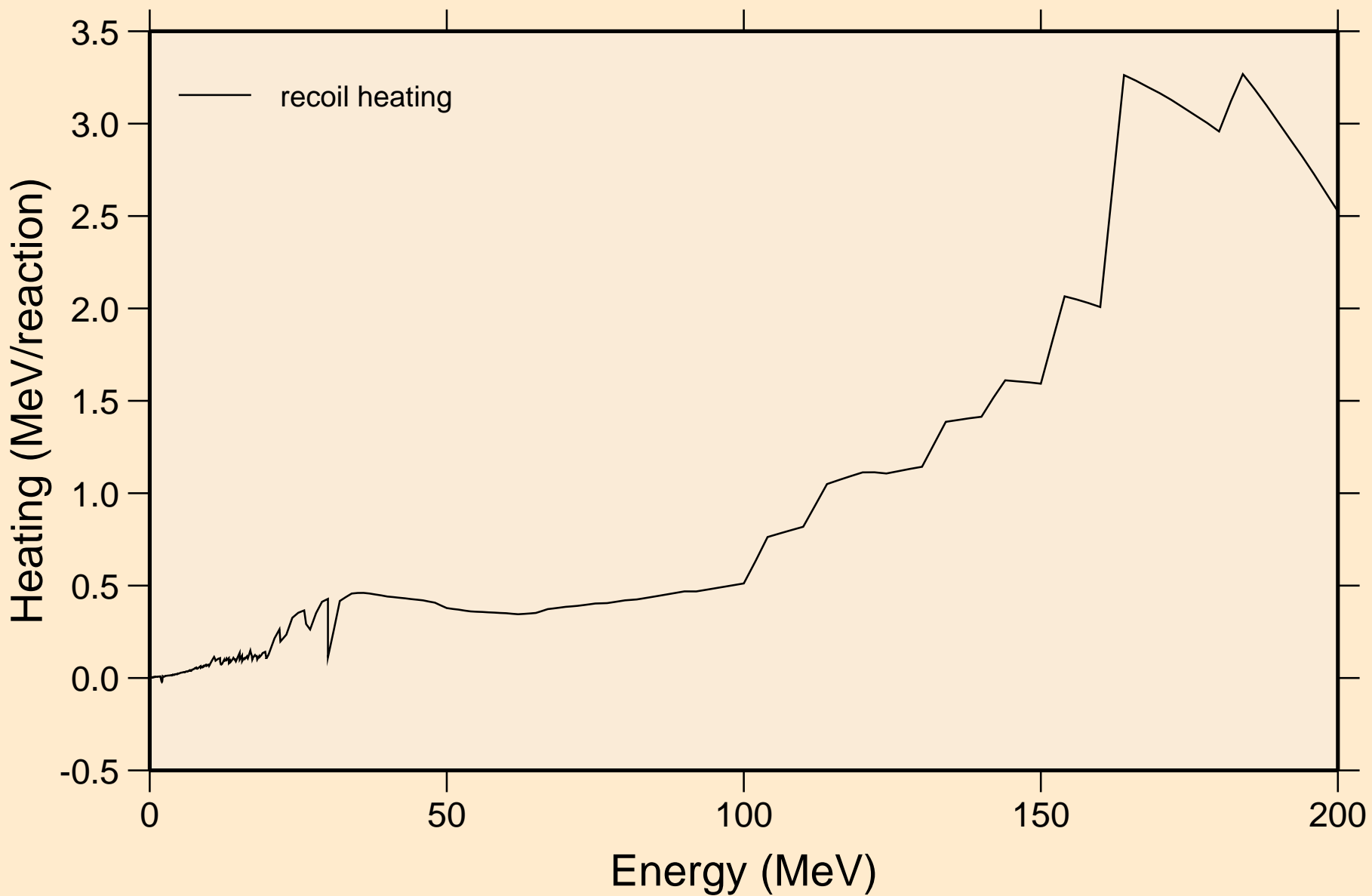


# OS177 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K

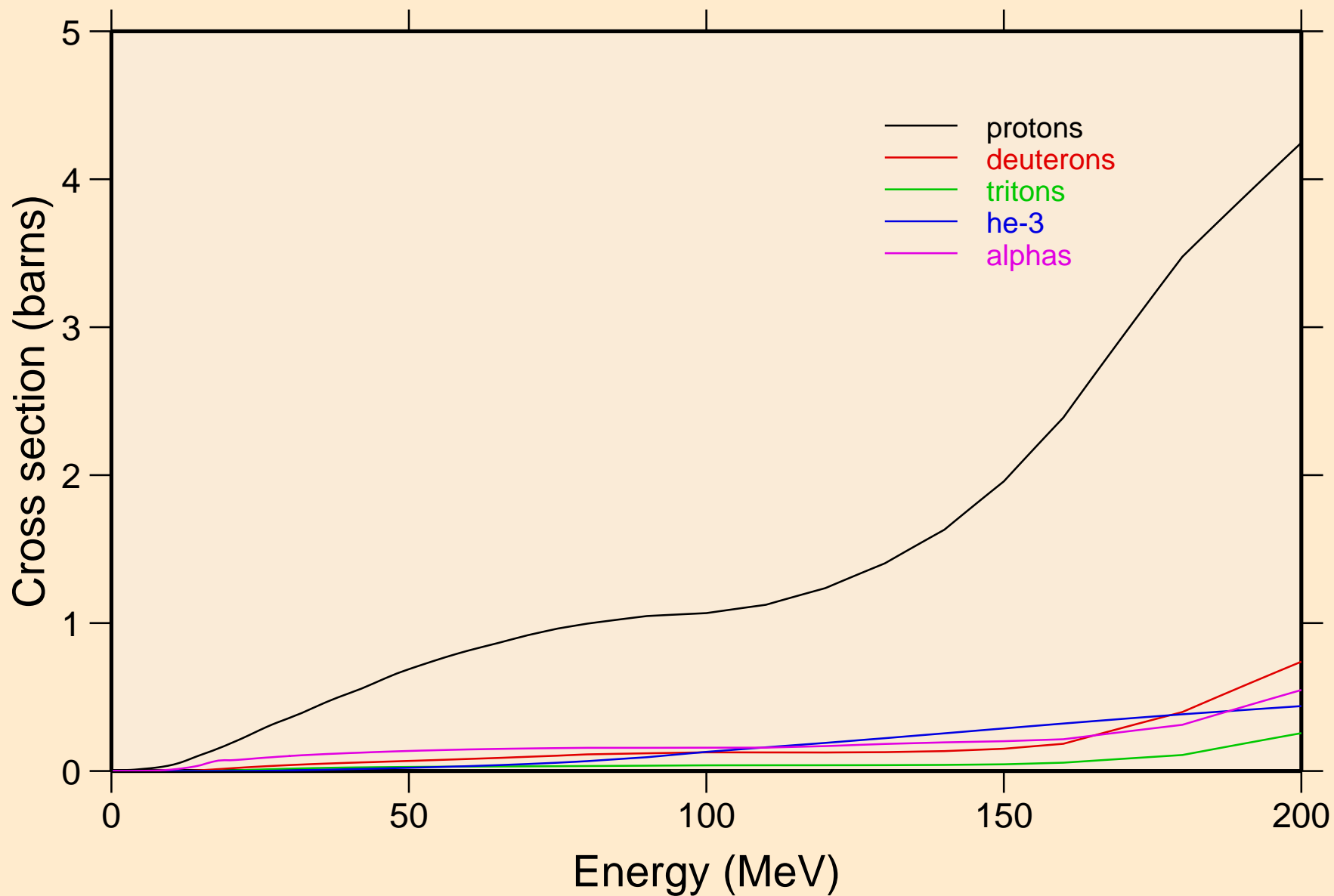
## Particle heating contributions



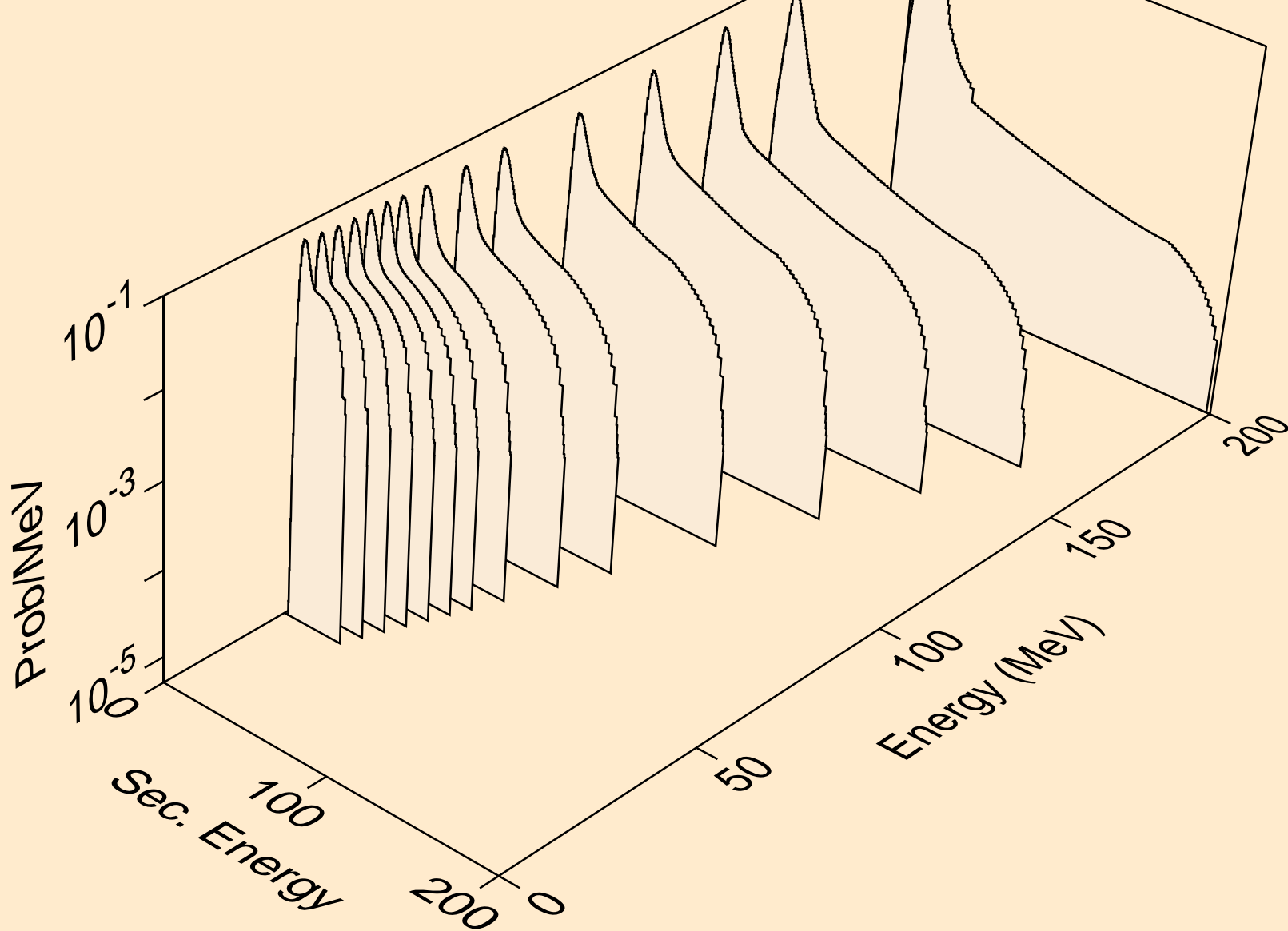
OS177 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Recoil Heating



OS177 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Particle production cross sections

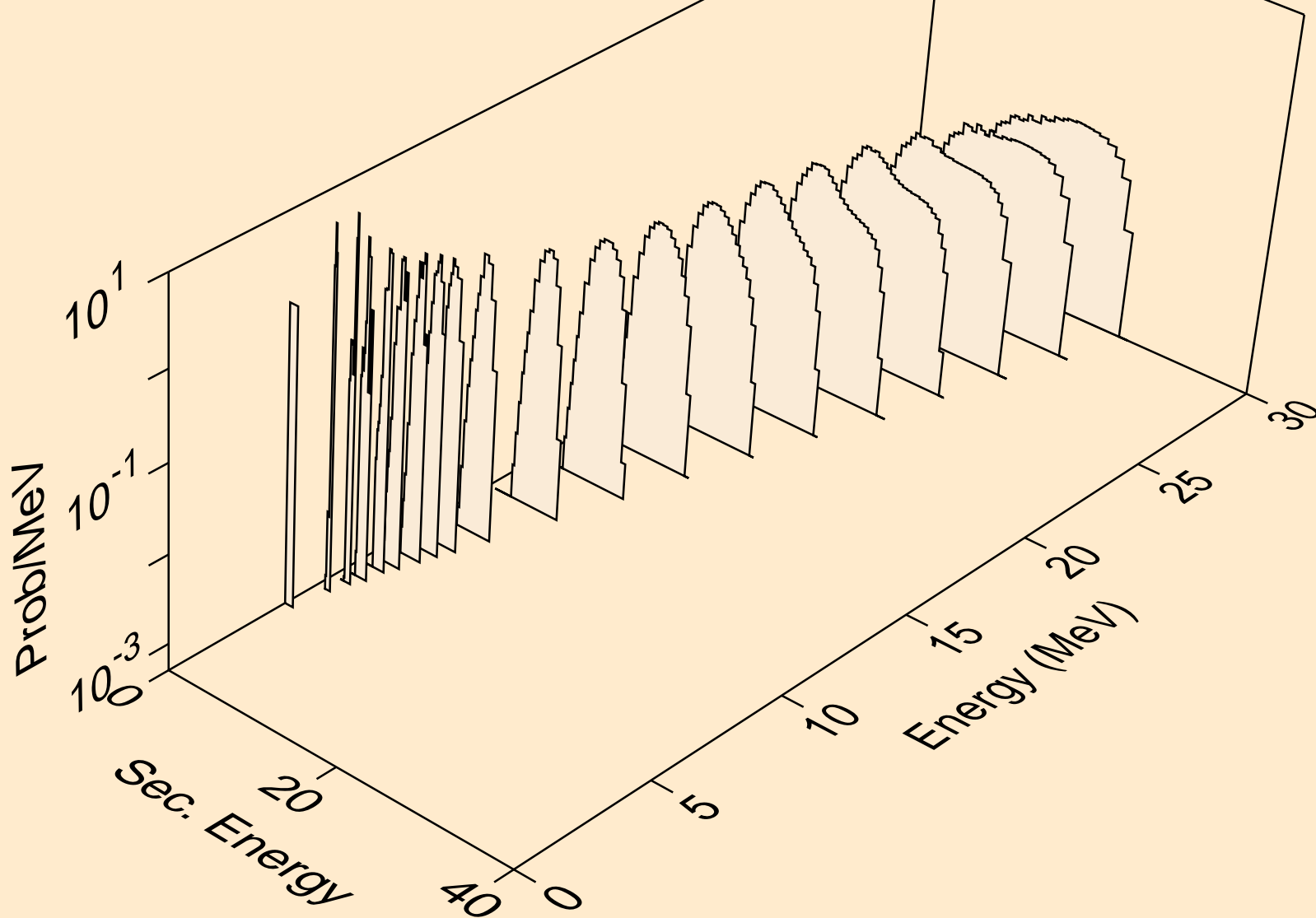


OS177 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
protons from (n,x)

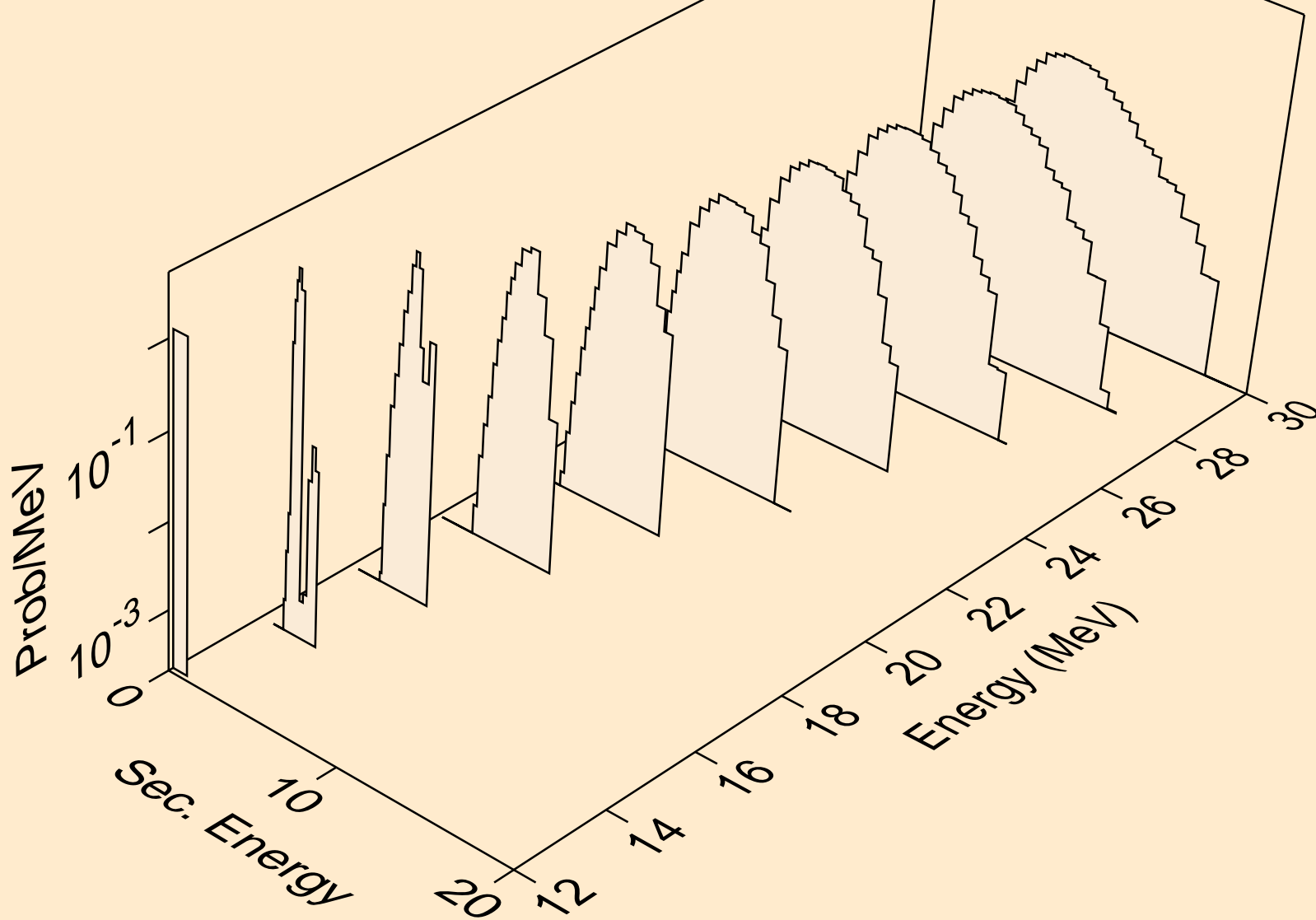




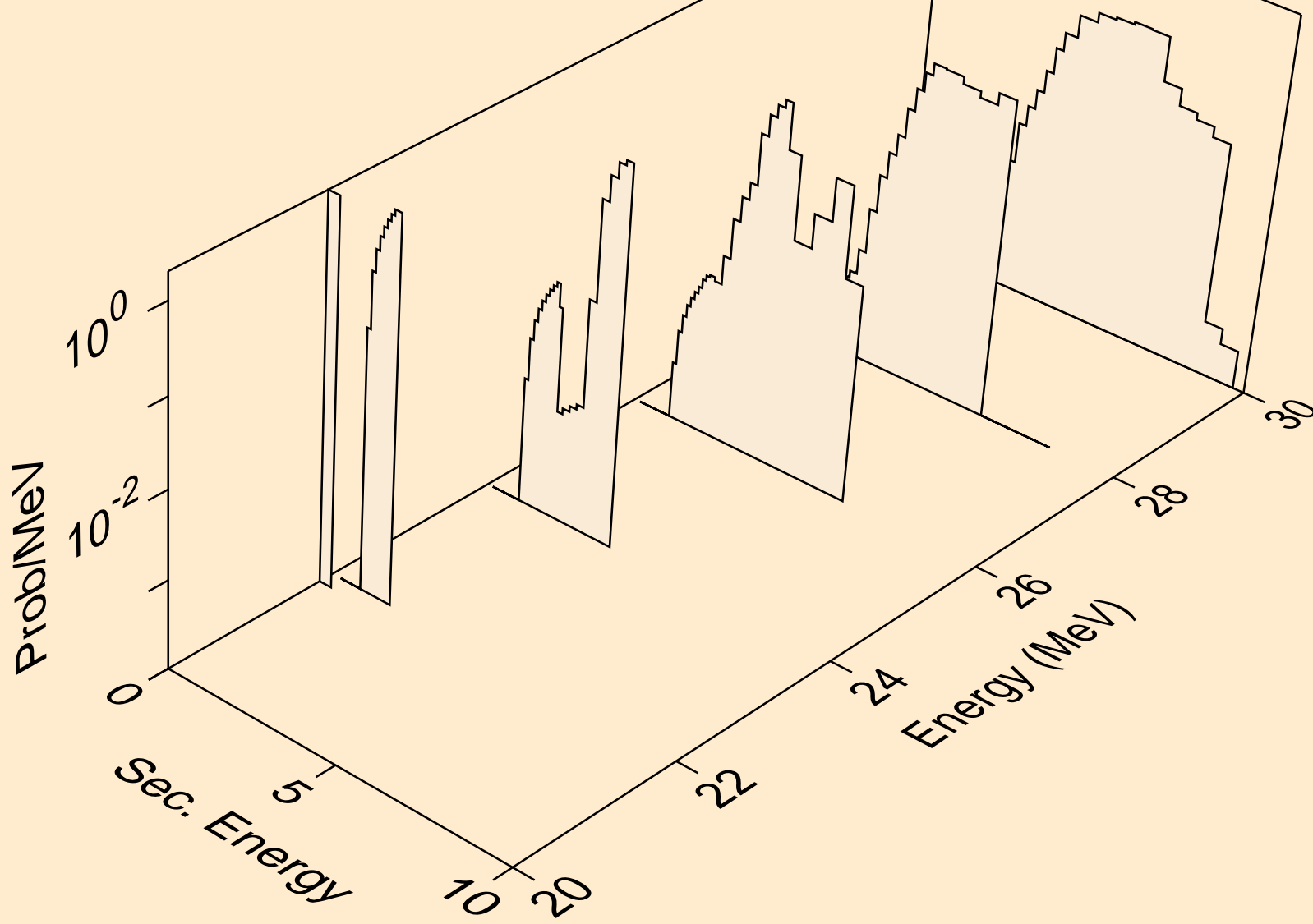
OS177 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
protons from (n,n\*)p



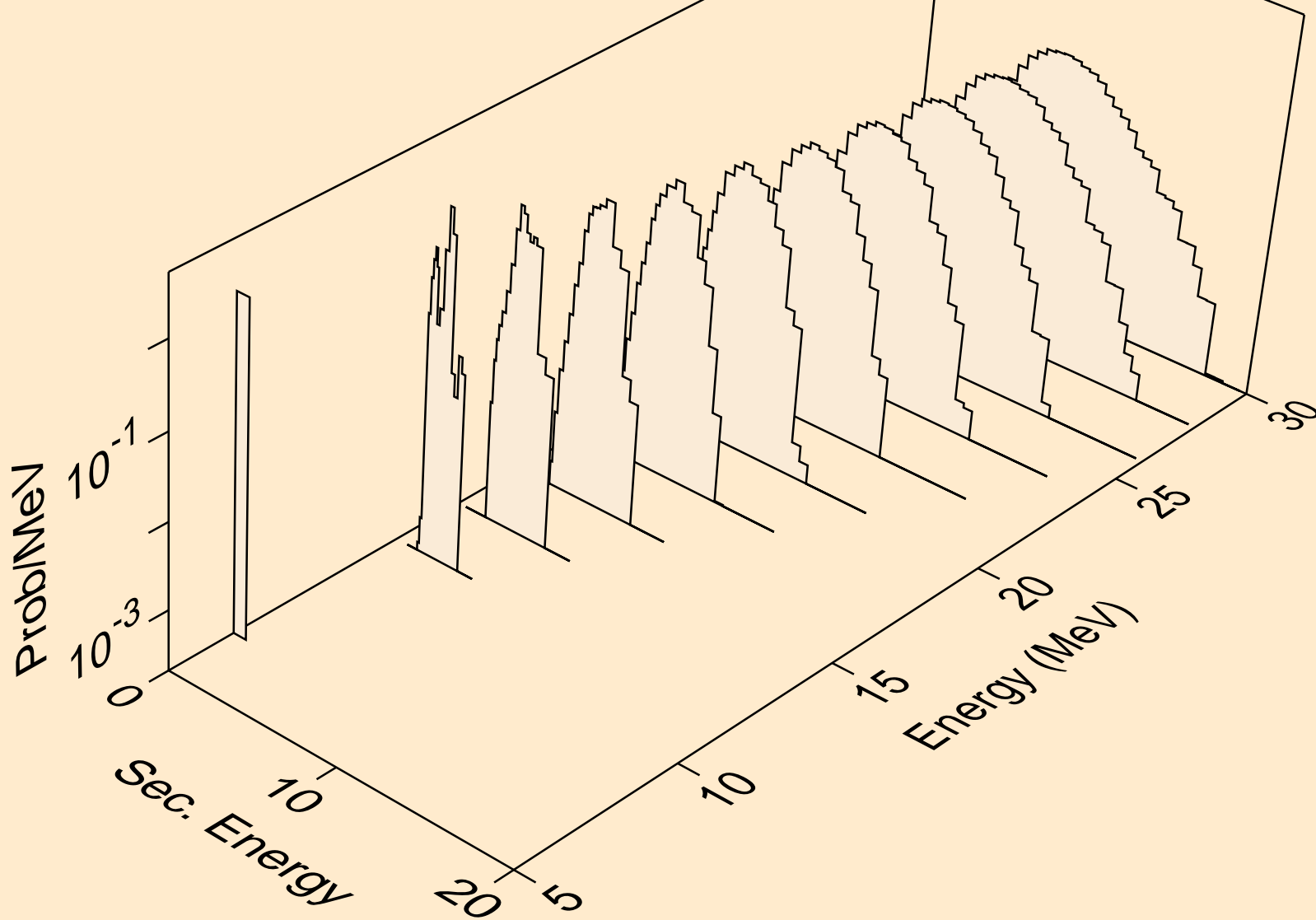
OS177 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
protons from (n,2np)



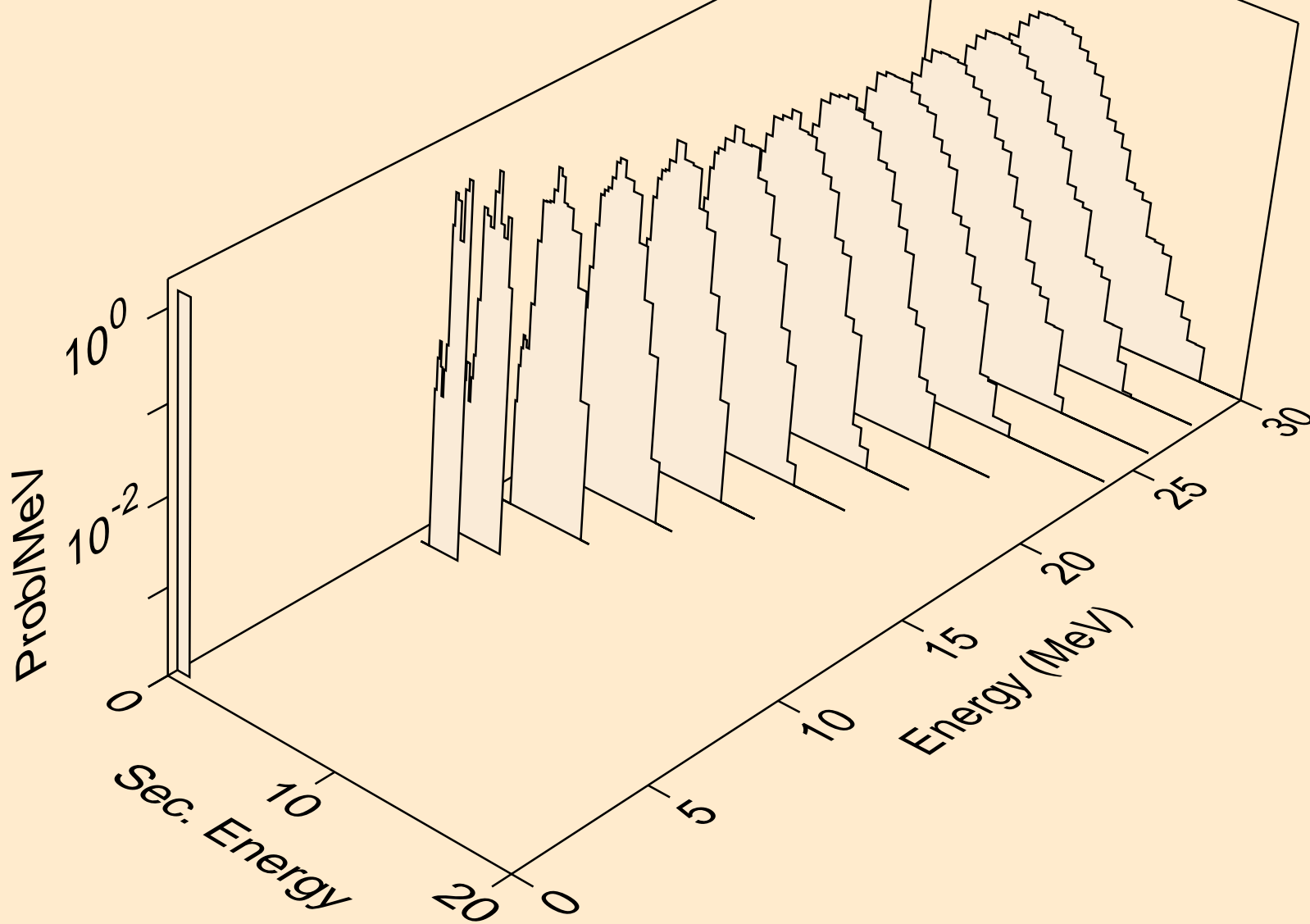
OS177 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
protons from (n,3np)



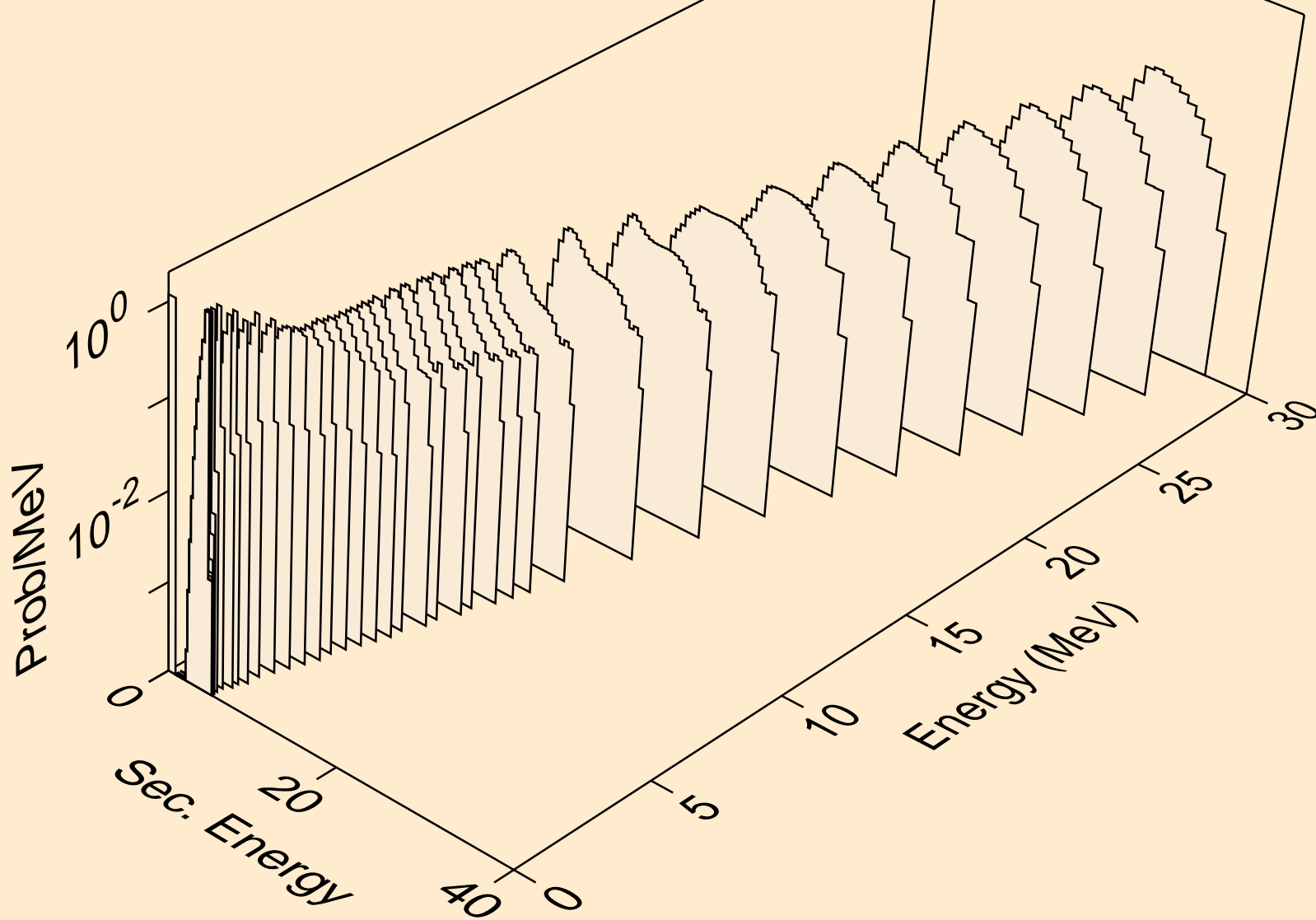
OS177 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
protons from (n,2np)



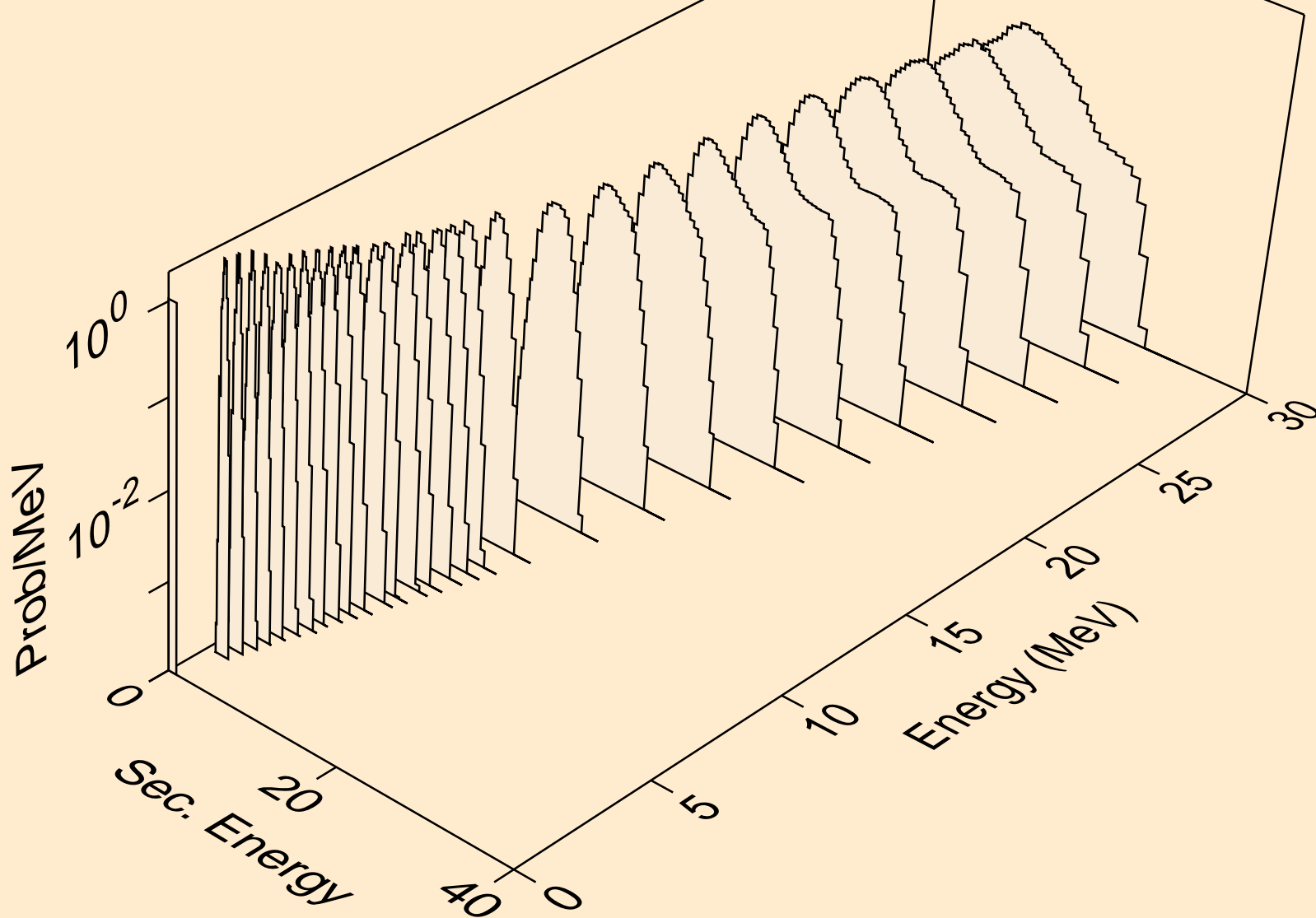
OS177 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
protons from (n,npa)



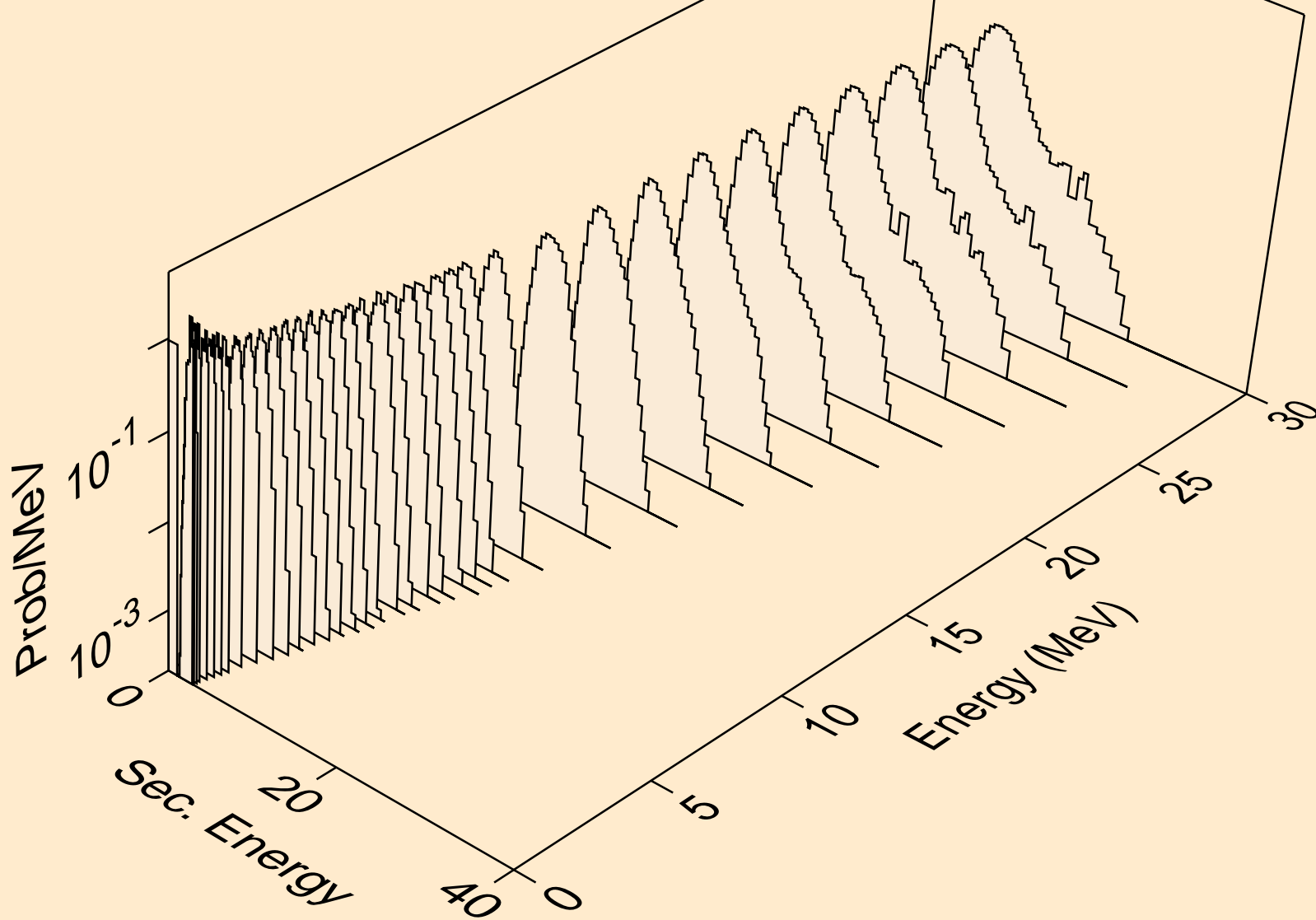
OS177 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
protons from (n,p)



OS177 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
protons from (n,2p)

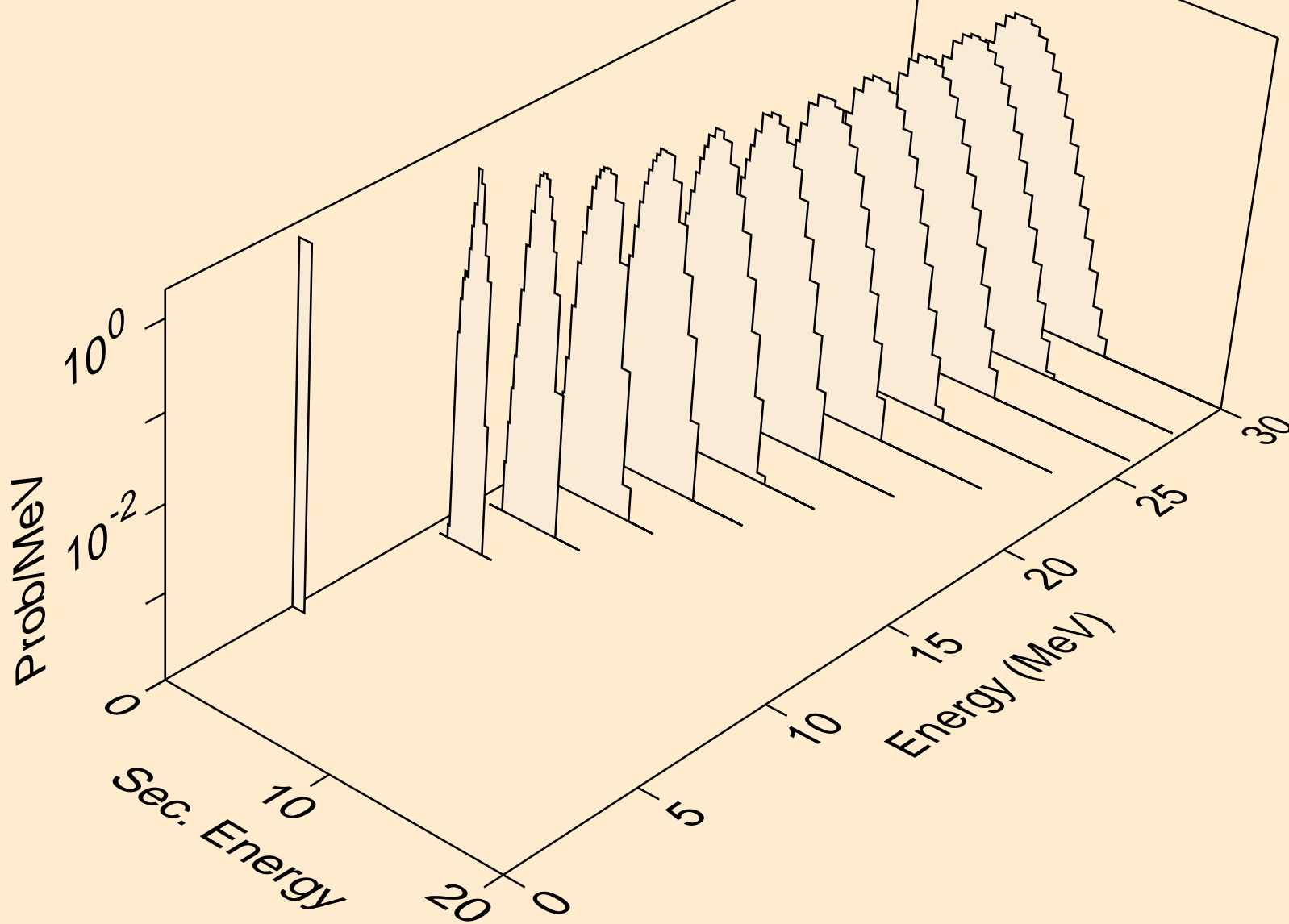


OS177 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
protons from (n,p)

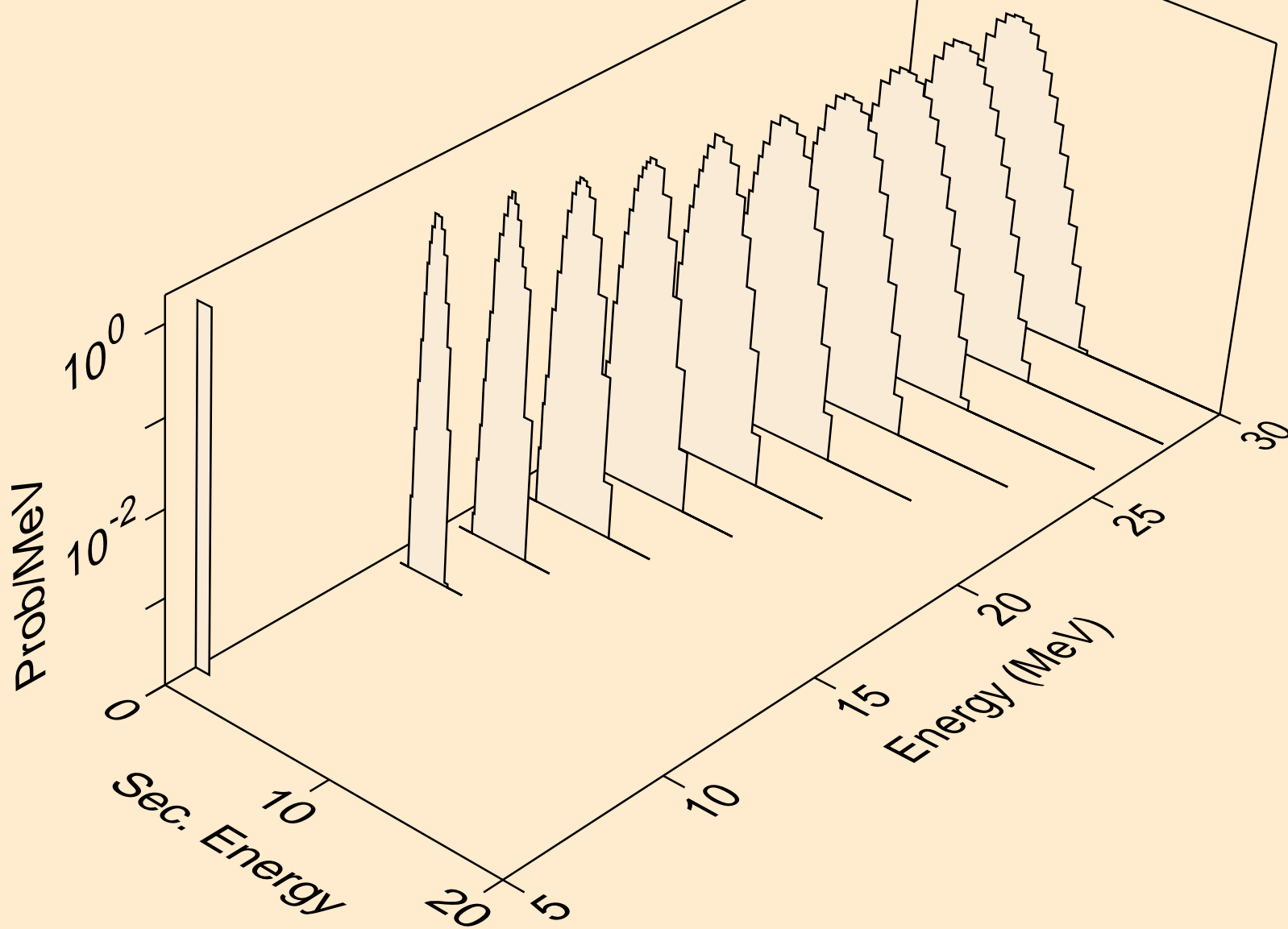




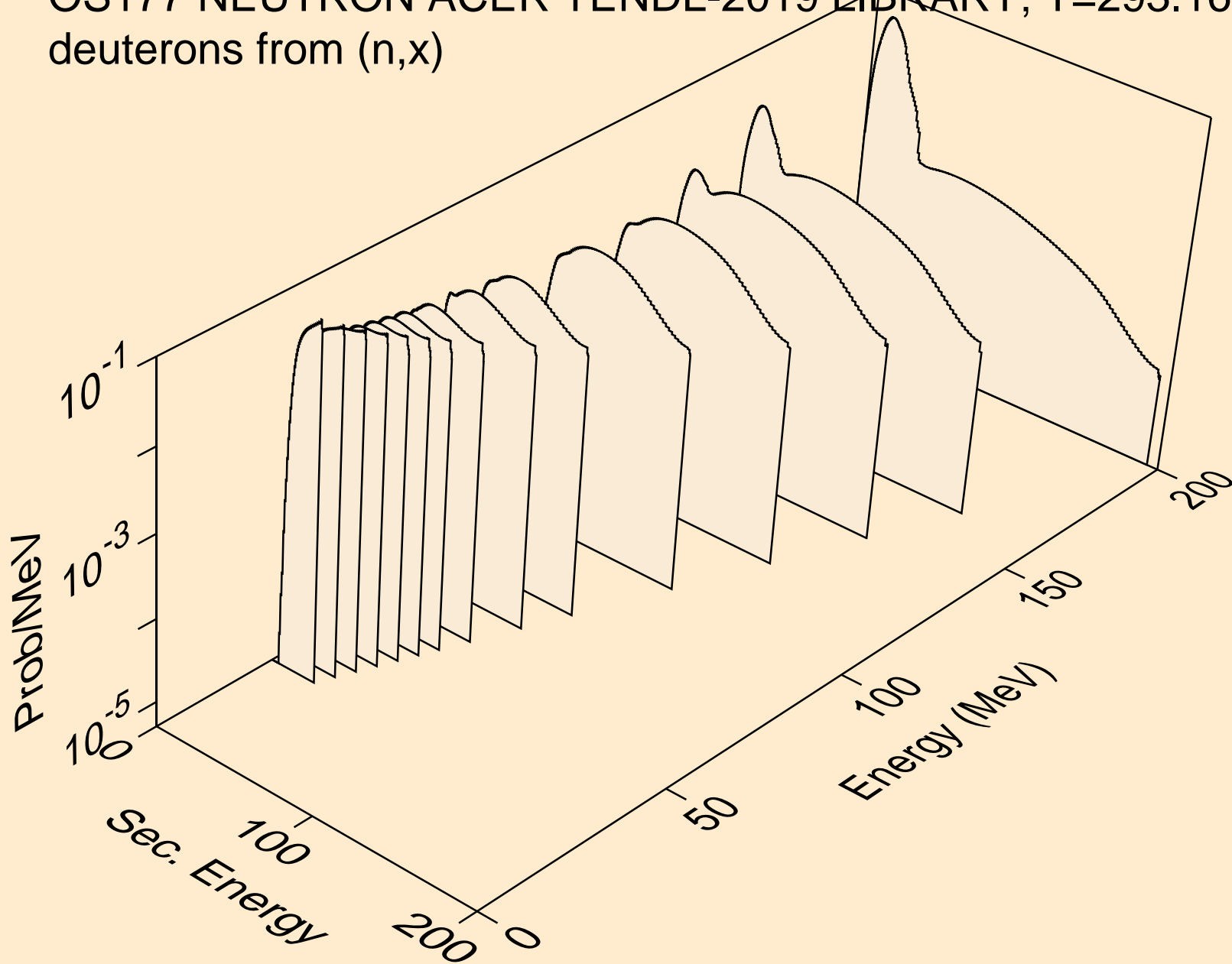
OS177 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
protons from (n,pd)



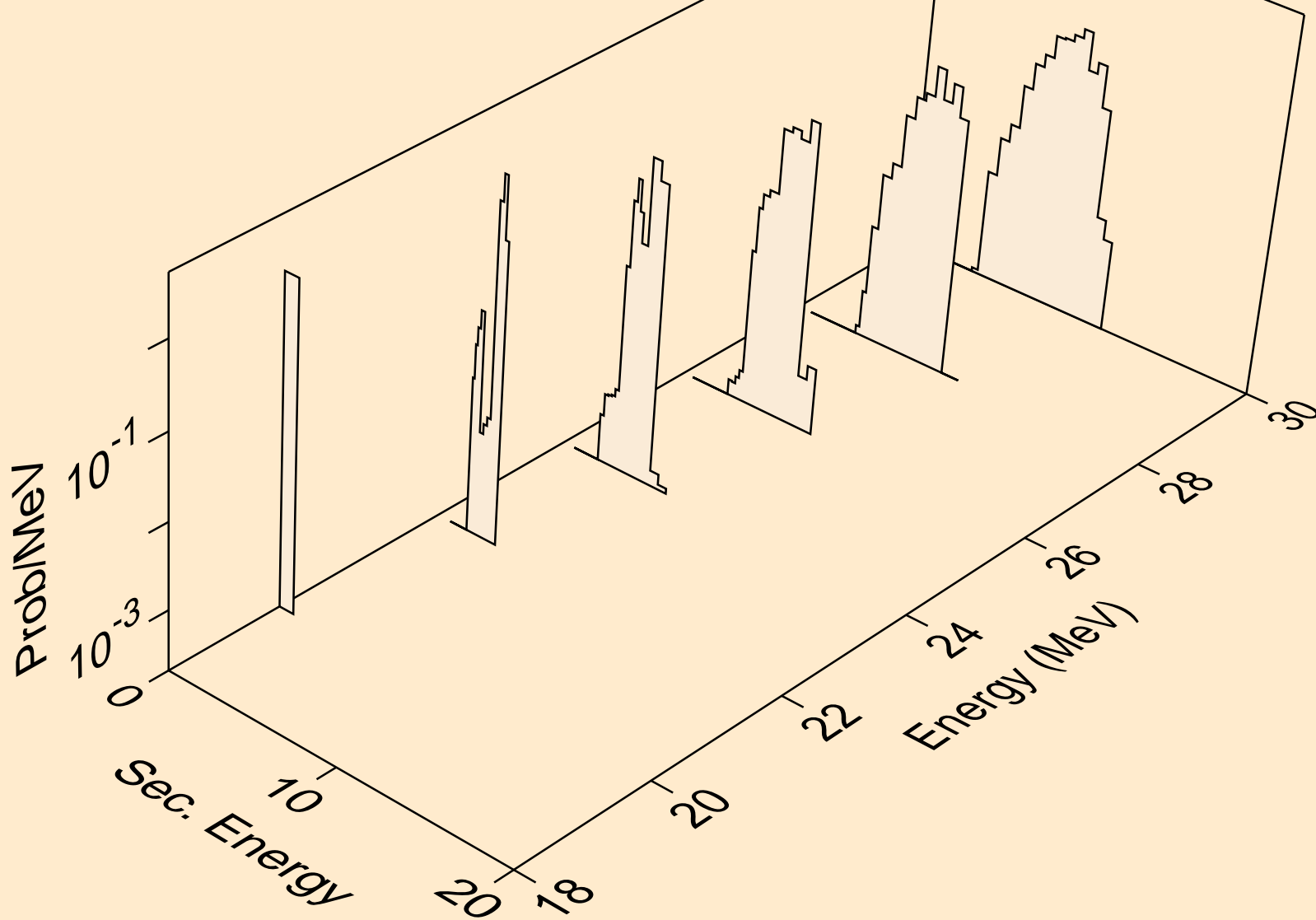
OS177 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
protons from (n,pt)



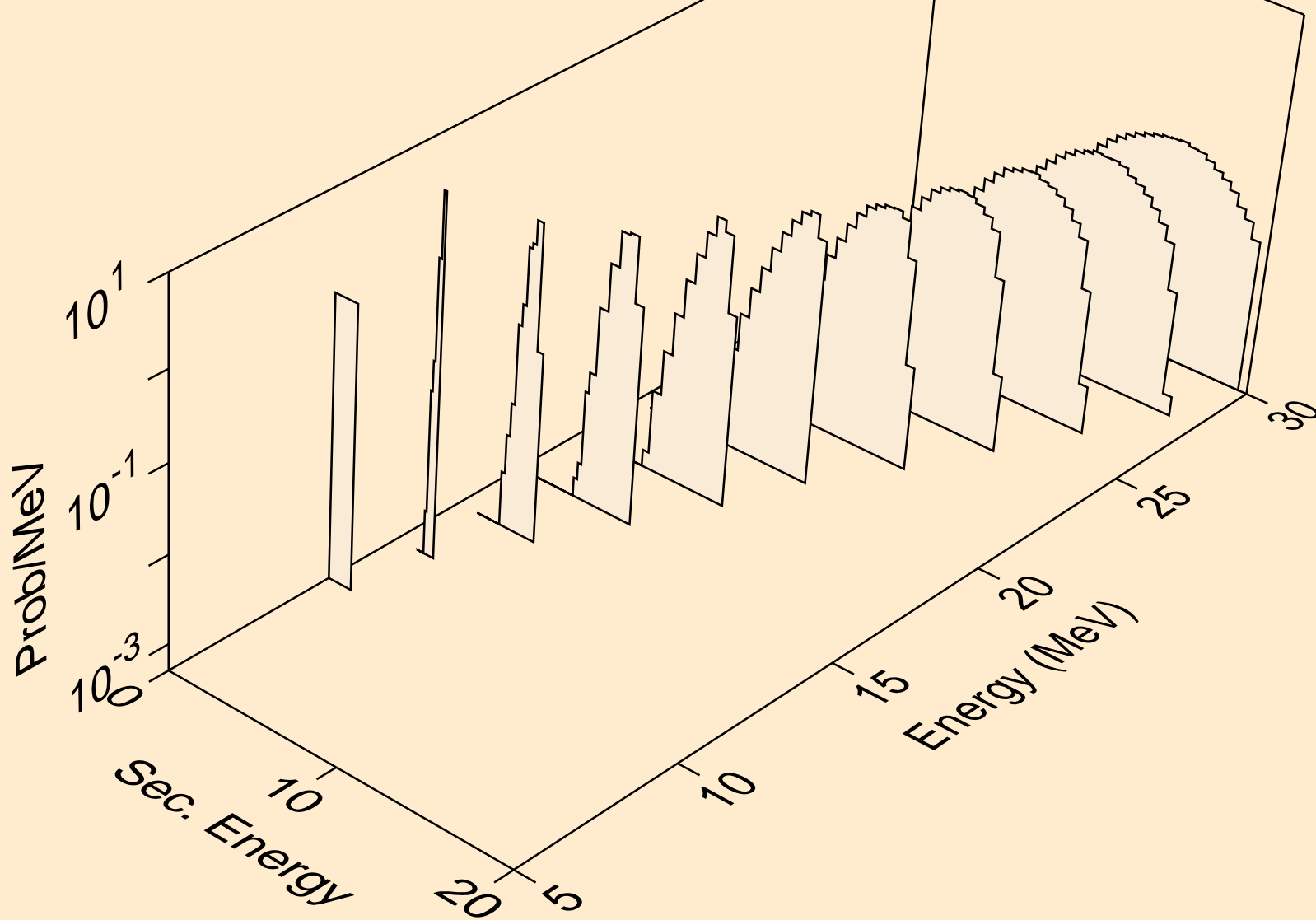
OS177 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
deuterons from (n,x)



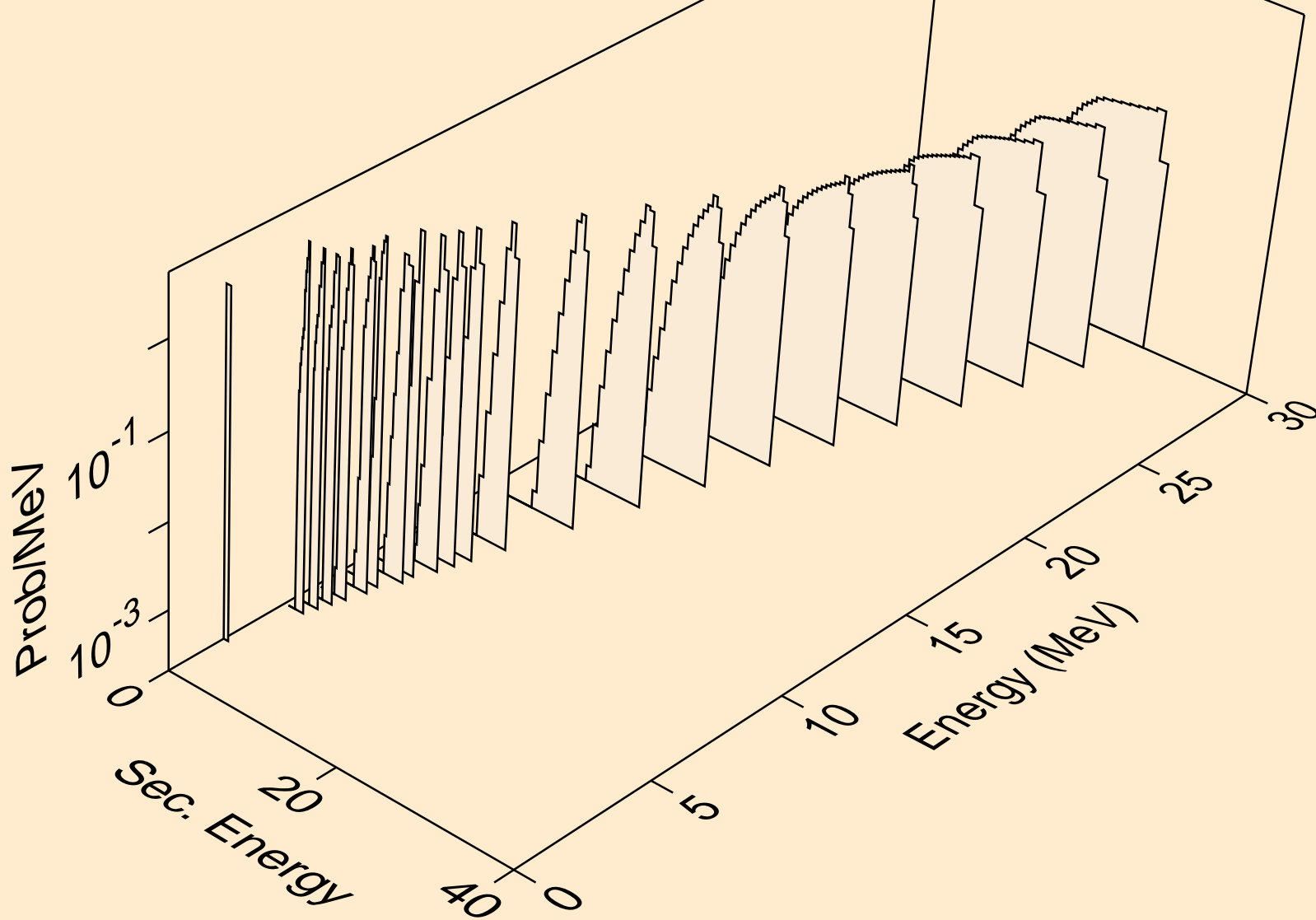
OS177 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
deuterons from (n,2nd)



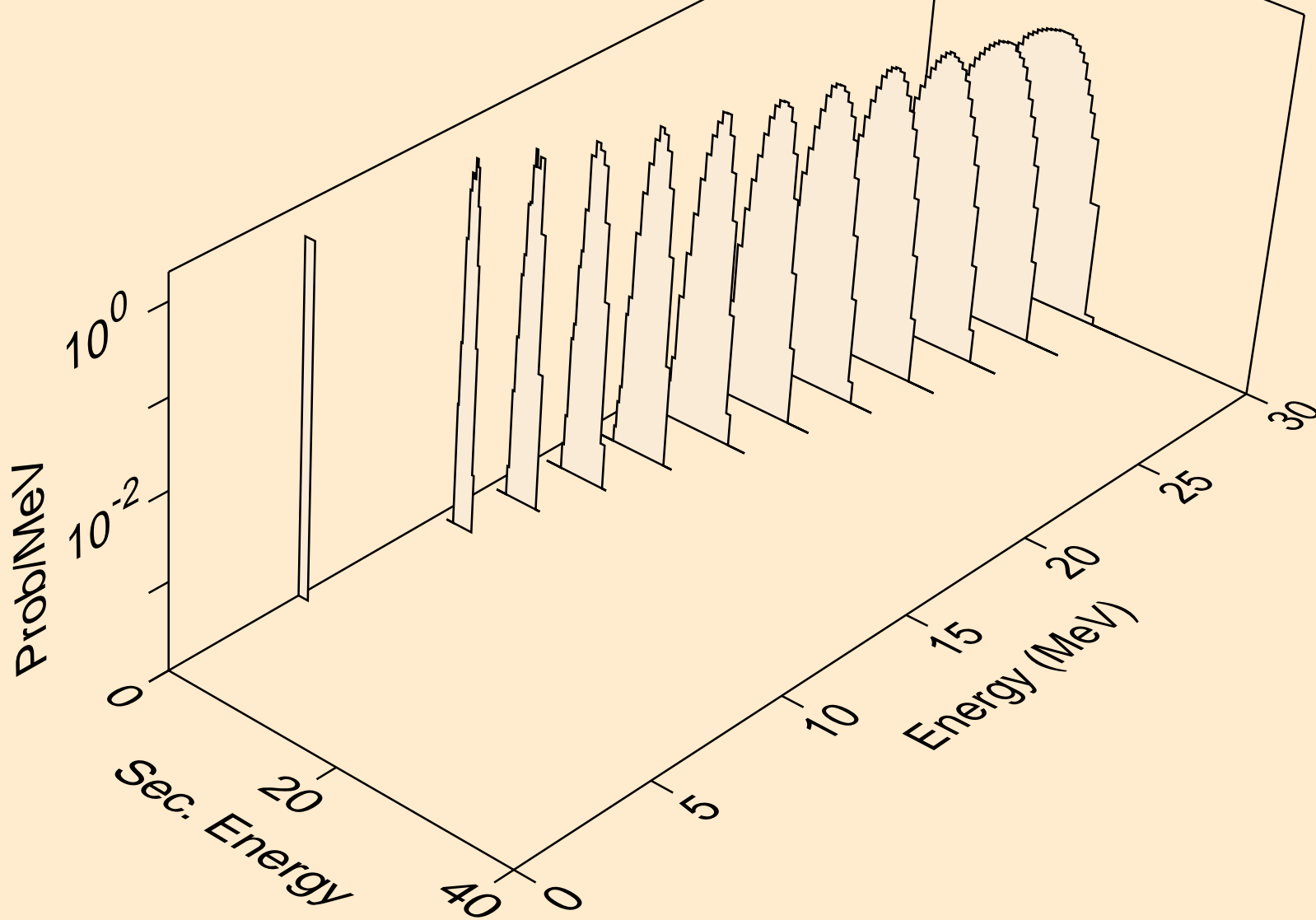
OS177 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
deuterons from (n,n\*)d



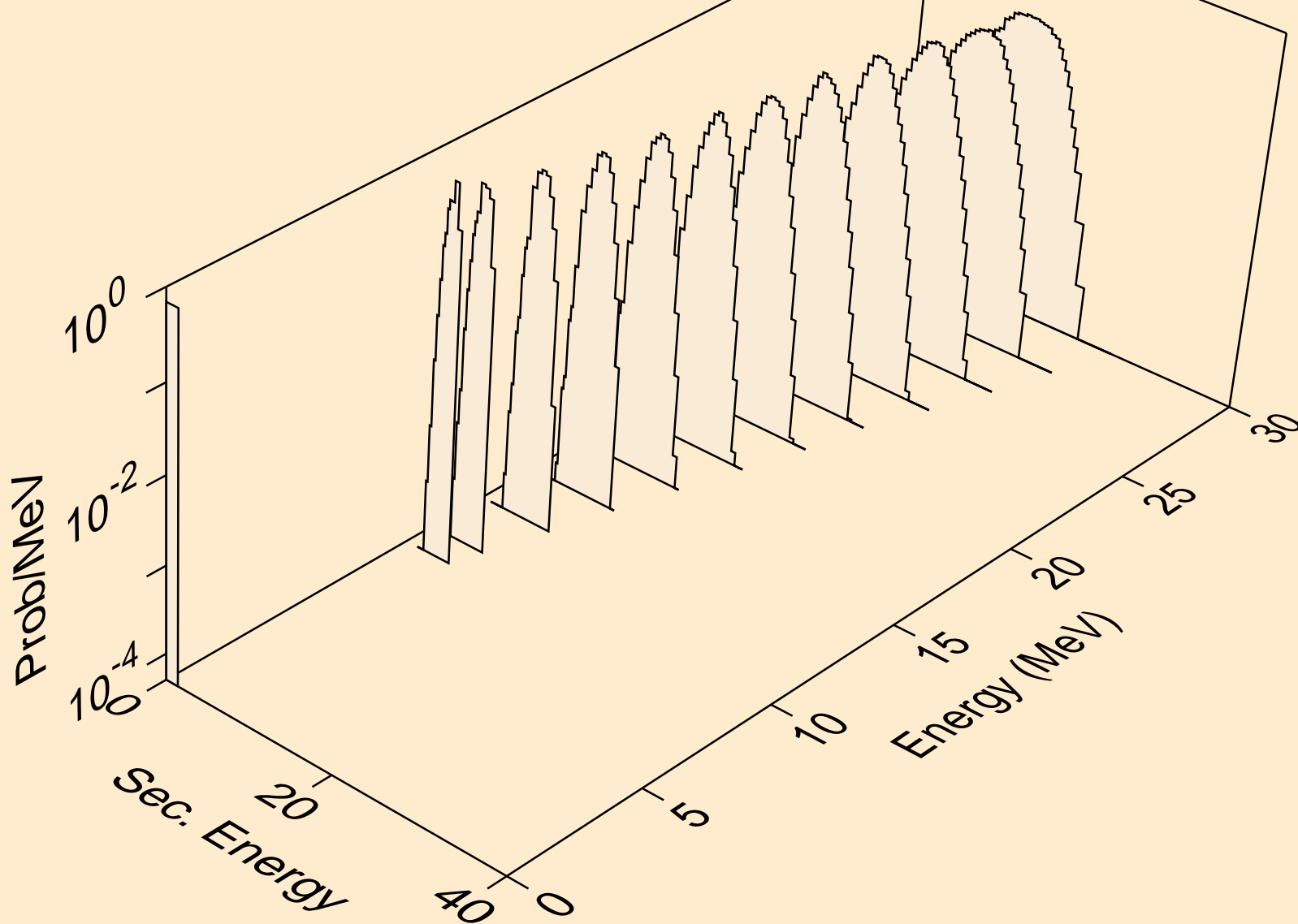
OS177 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
deuterons from (n,d)



OS177 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
deuterons from (n,pd)

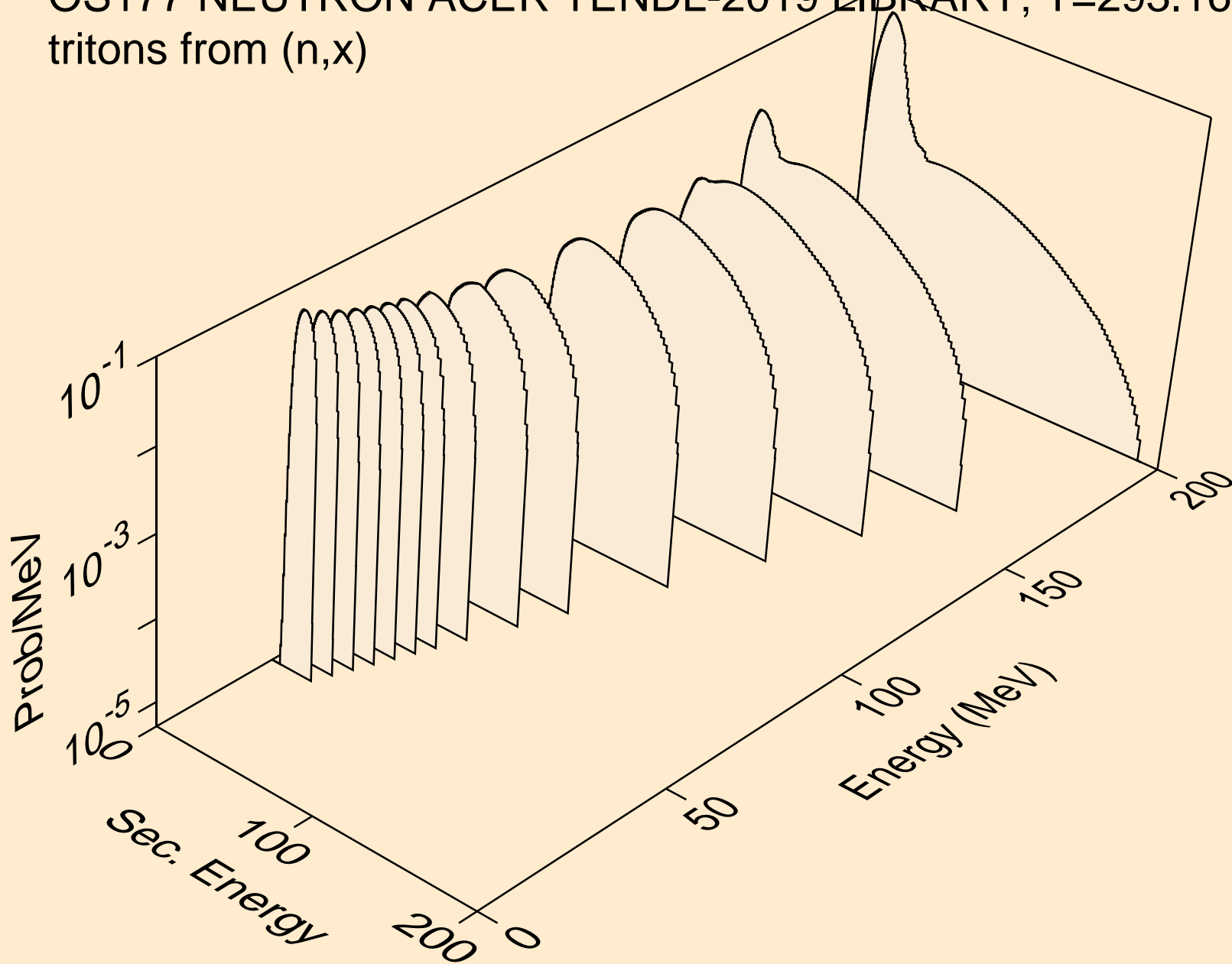


OS177 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
deuterons from (n,da)

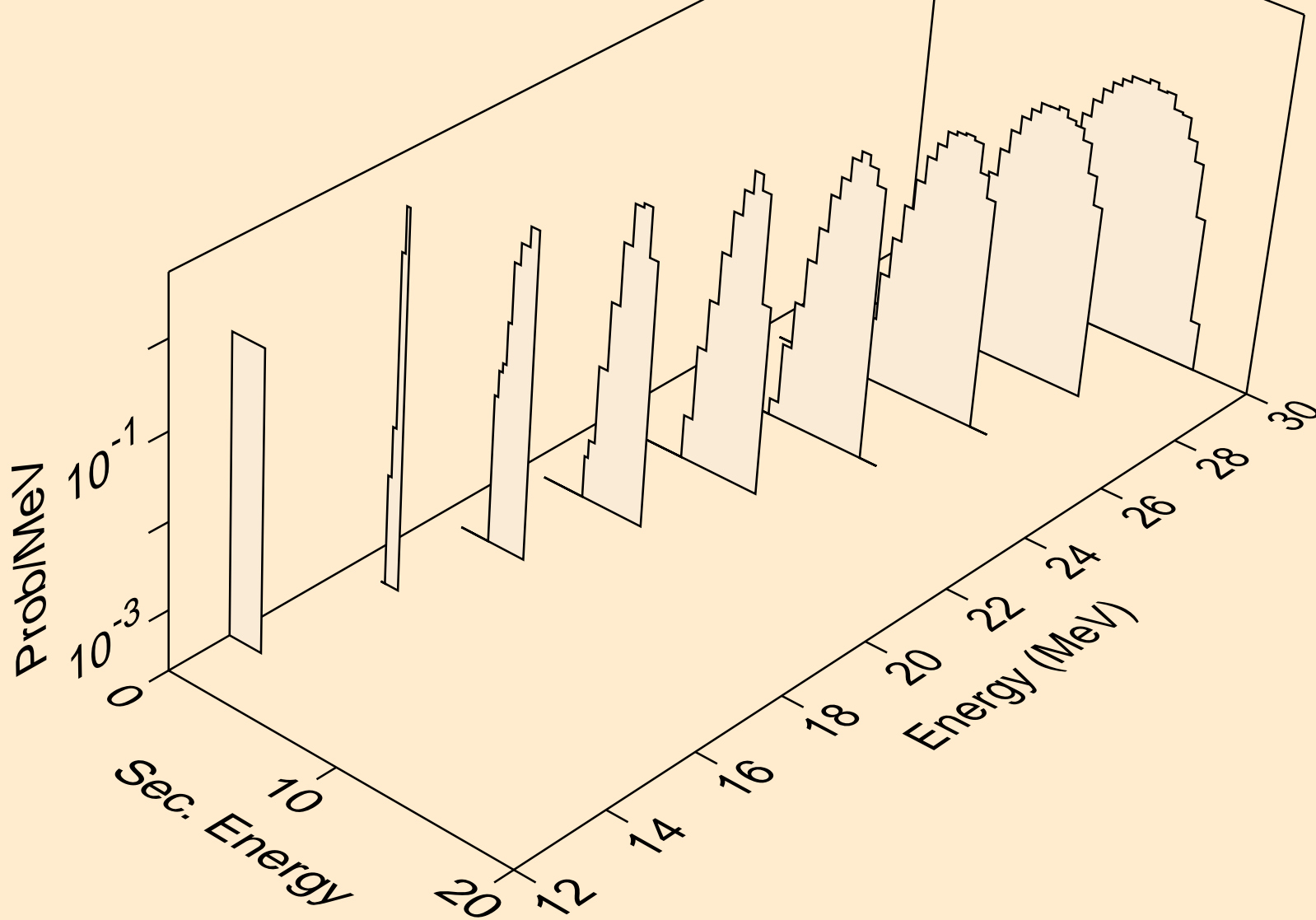




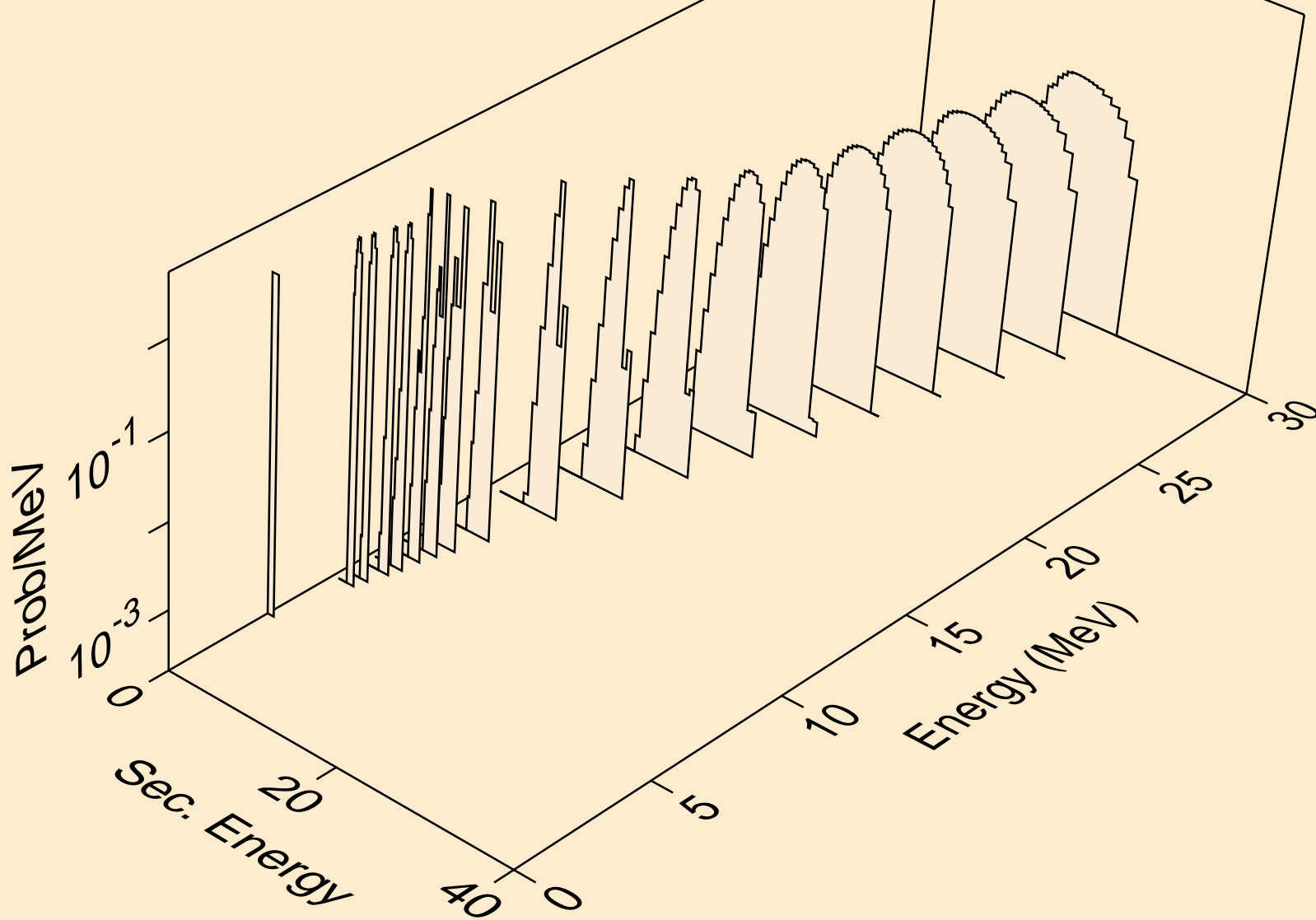
OS177 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
tritons from (n,x)



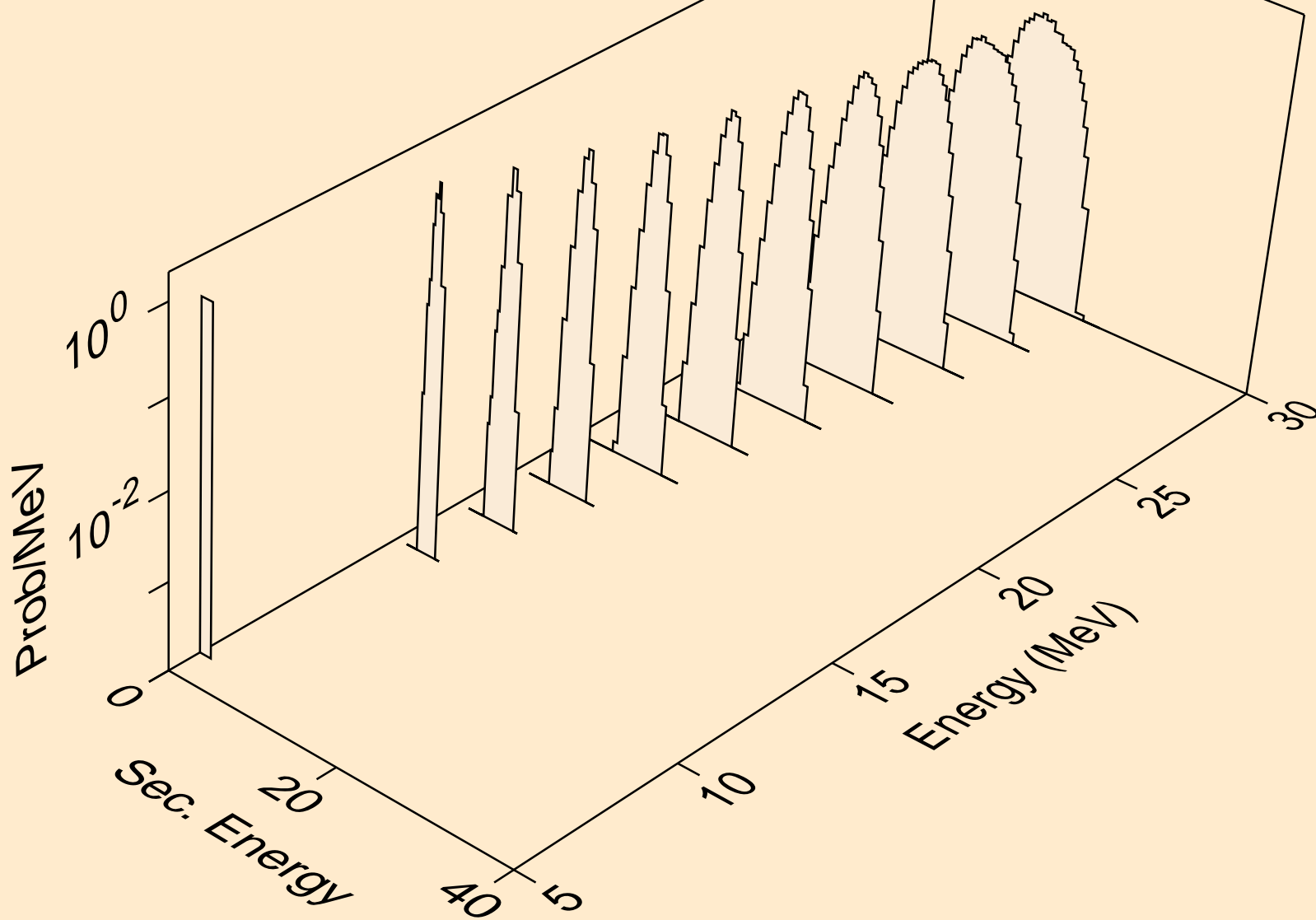
OS177 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
tritons from (n,n\*)t



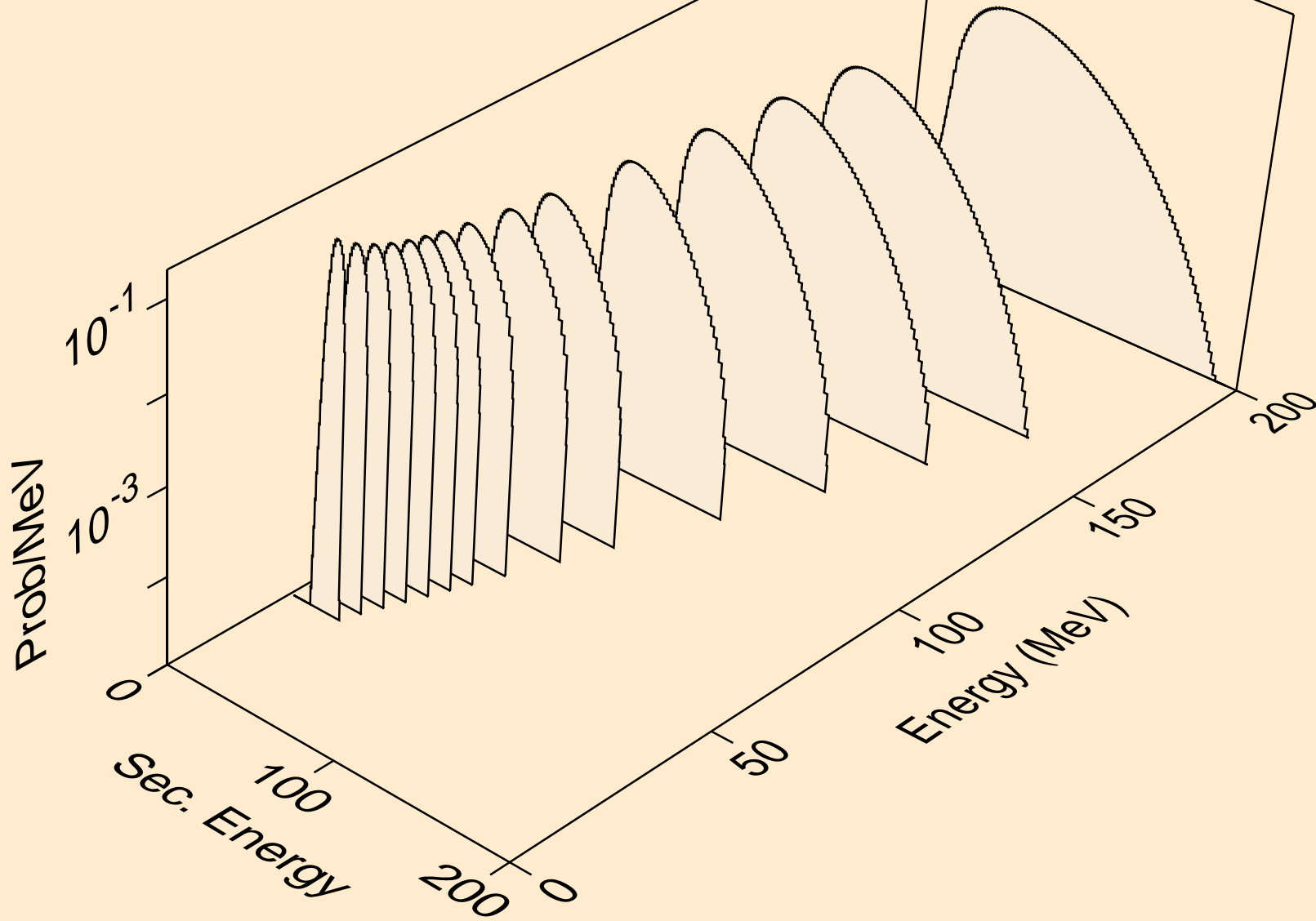
OS177 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
tritons from (n,t)



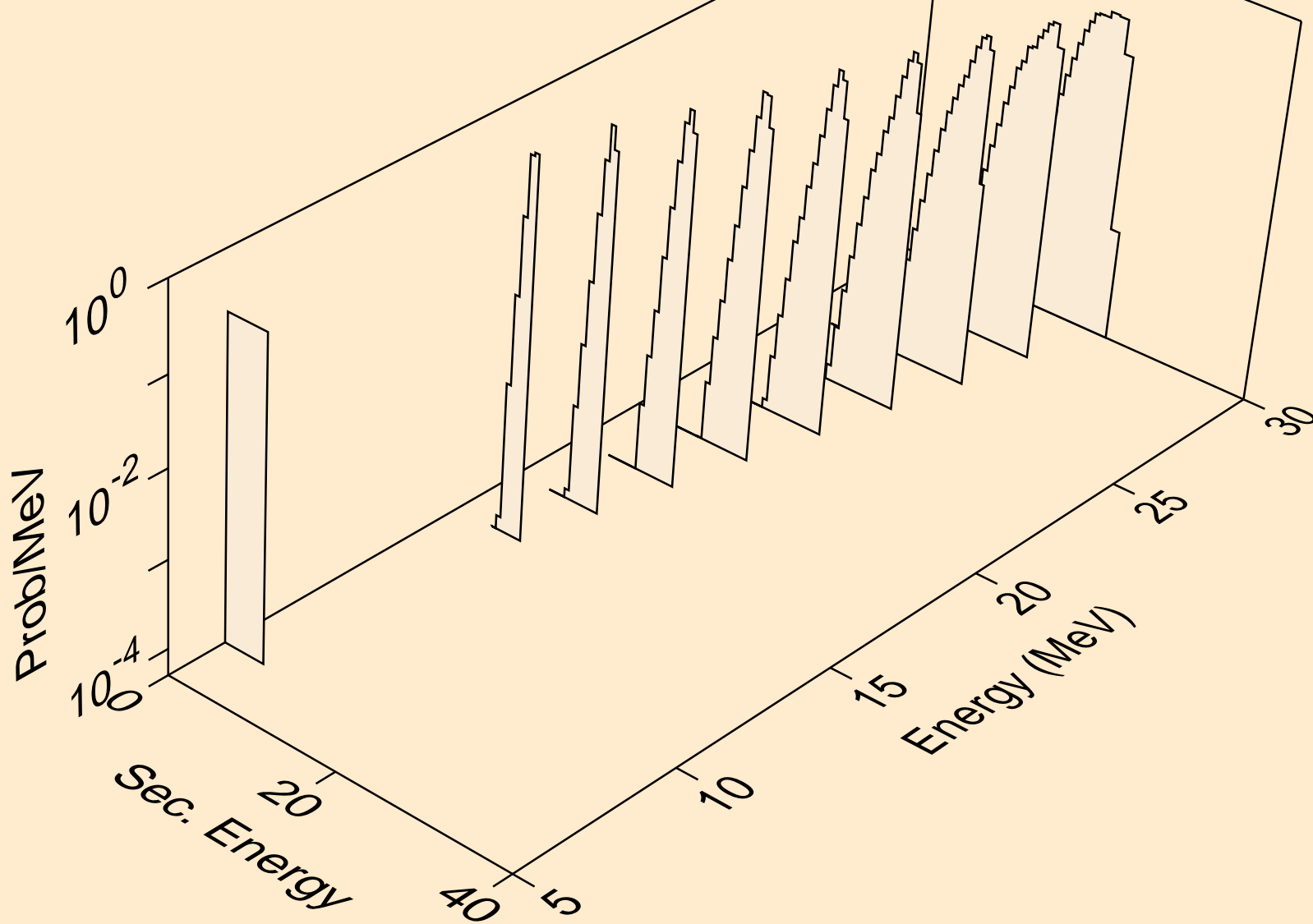
OS177 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
tritons from (n,pt)



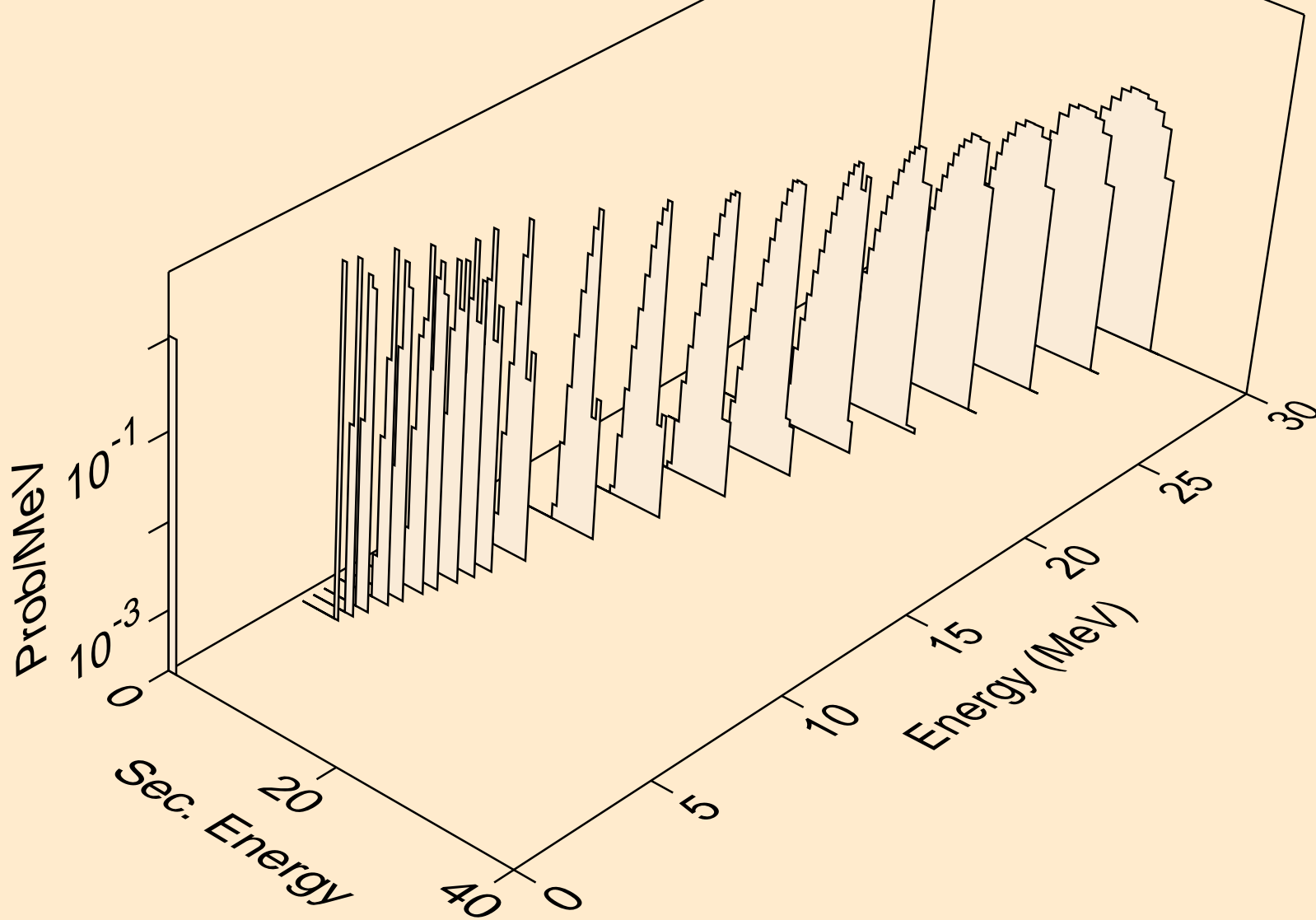
OS177 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
he3s from (n,x)



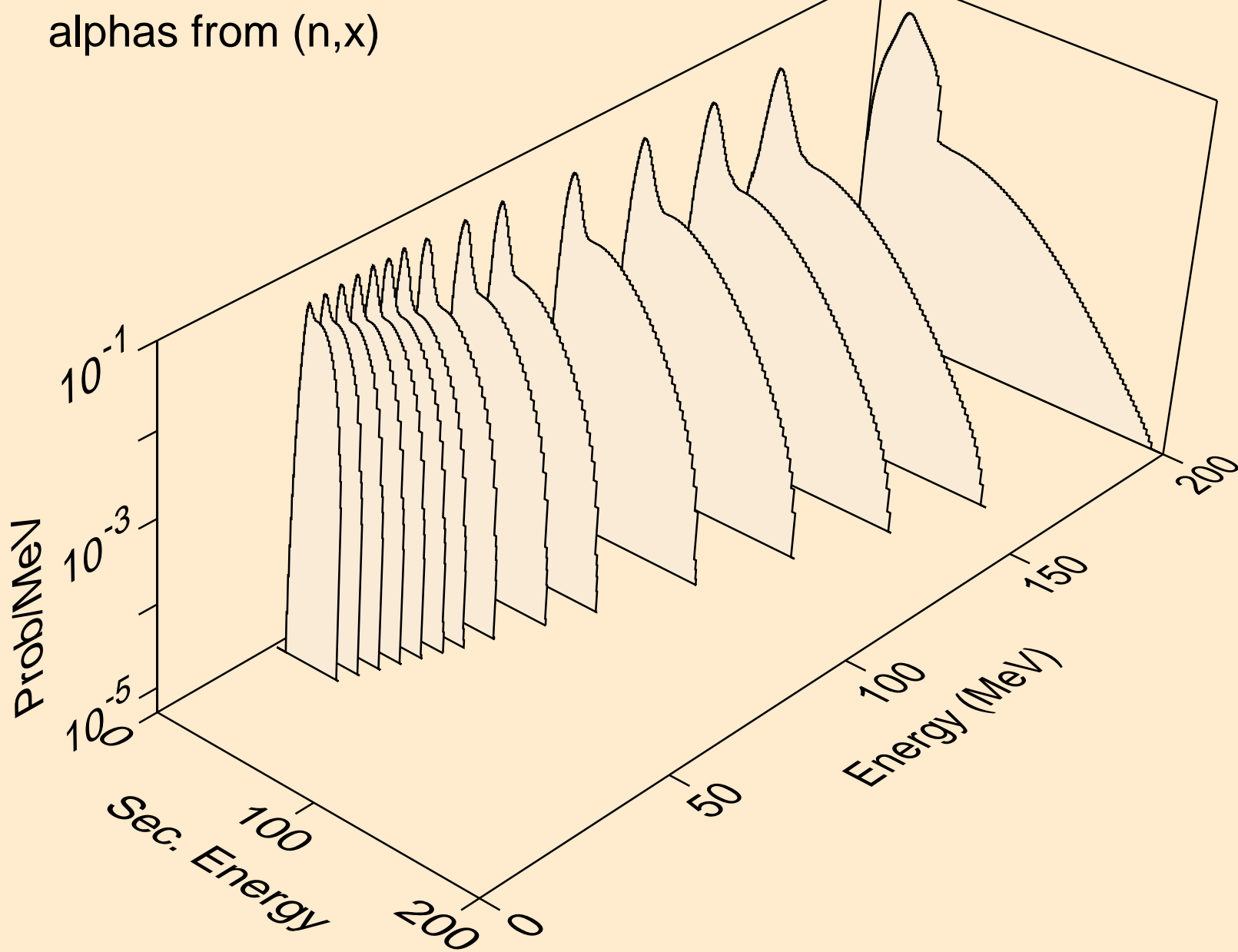
OS177 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
he3s from (n,n\*)he3



OS177 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
he3s from (n,he3)

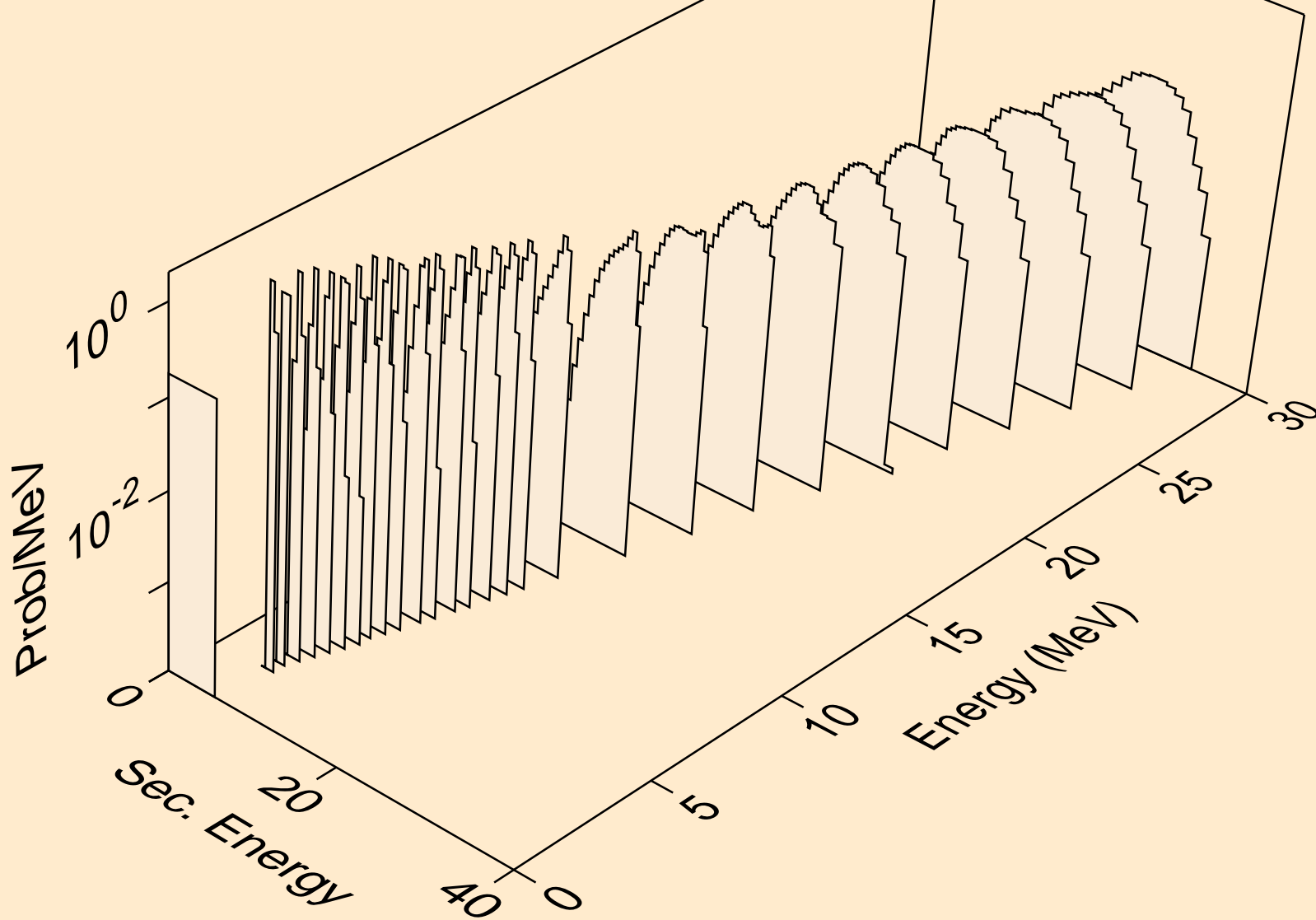


OS177 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
alphas from (n,x)

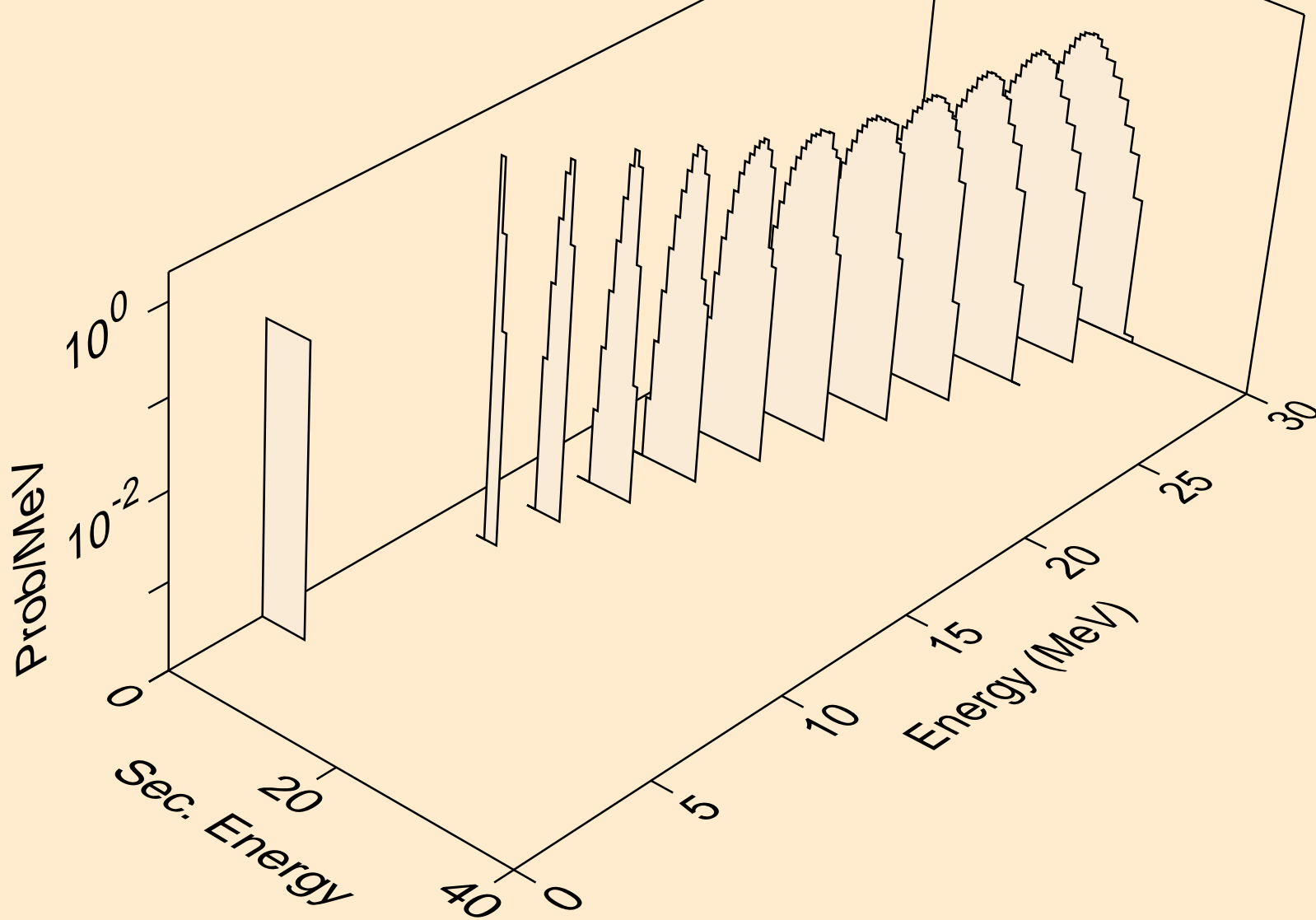




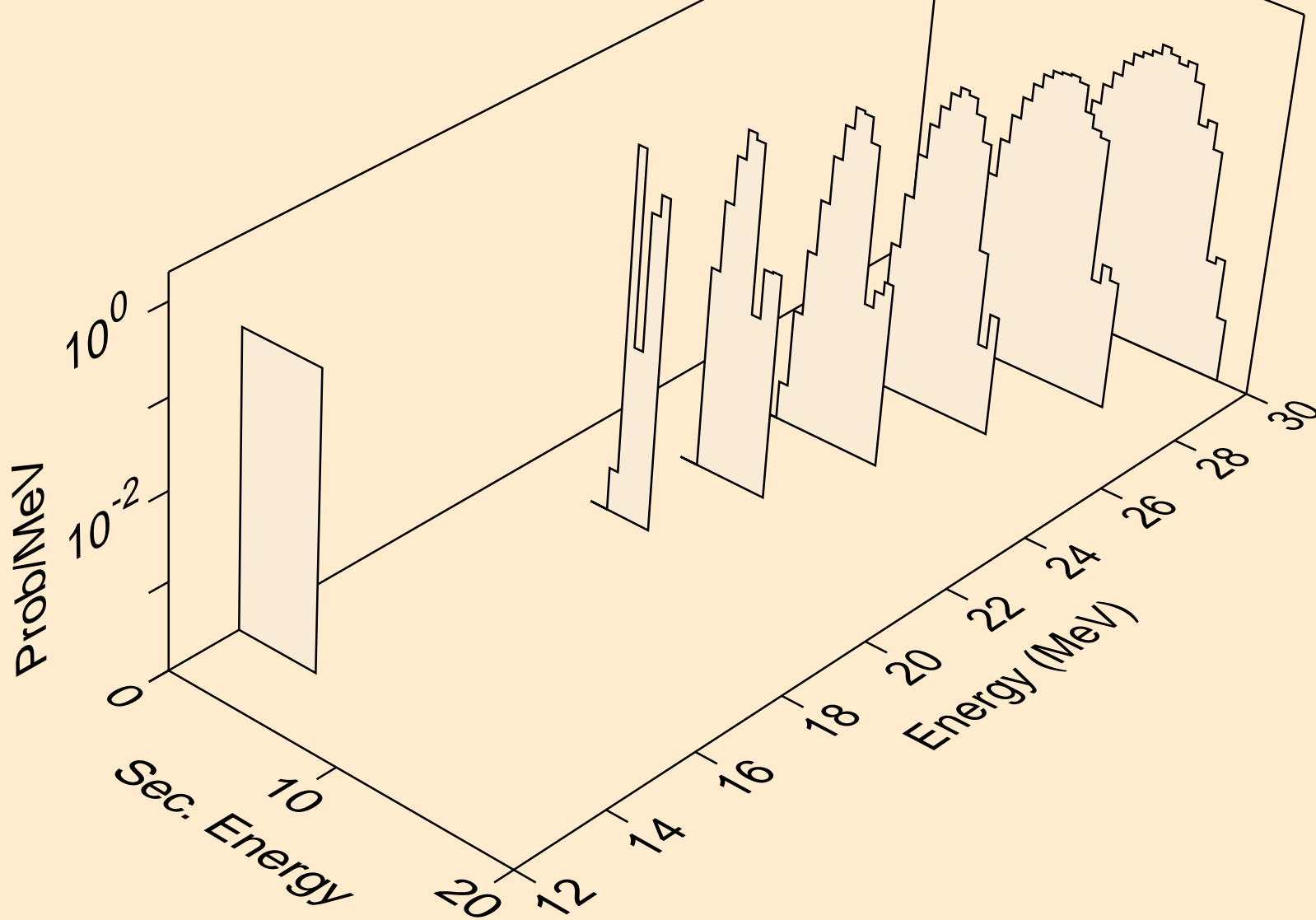
OS177 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
alphas from (n,n\*)a



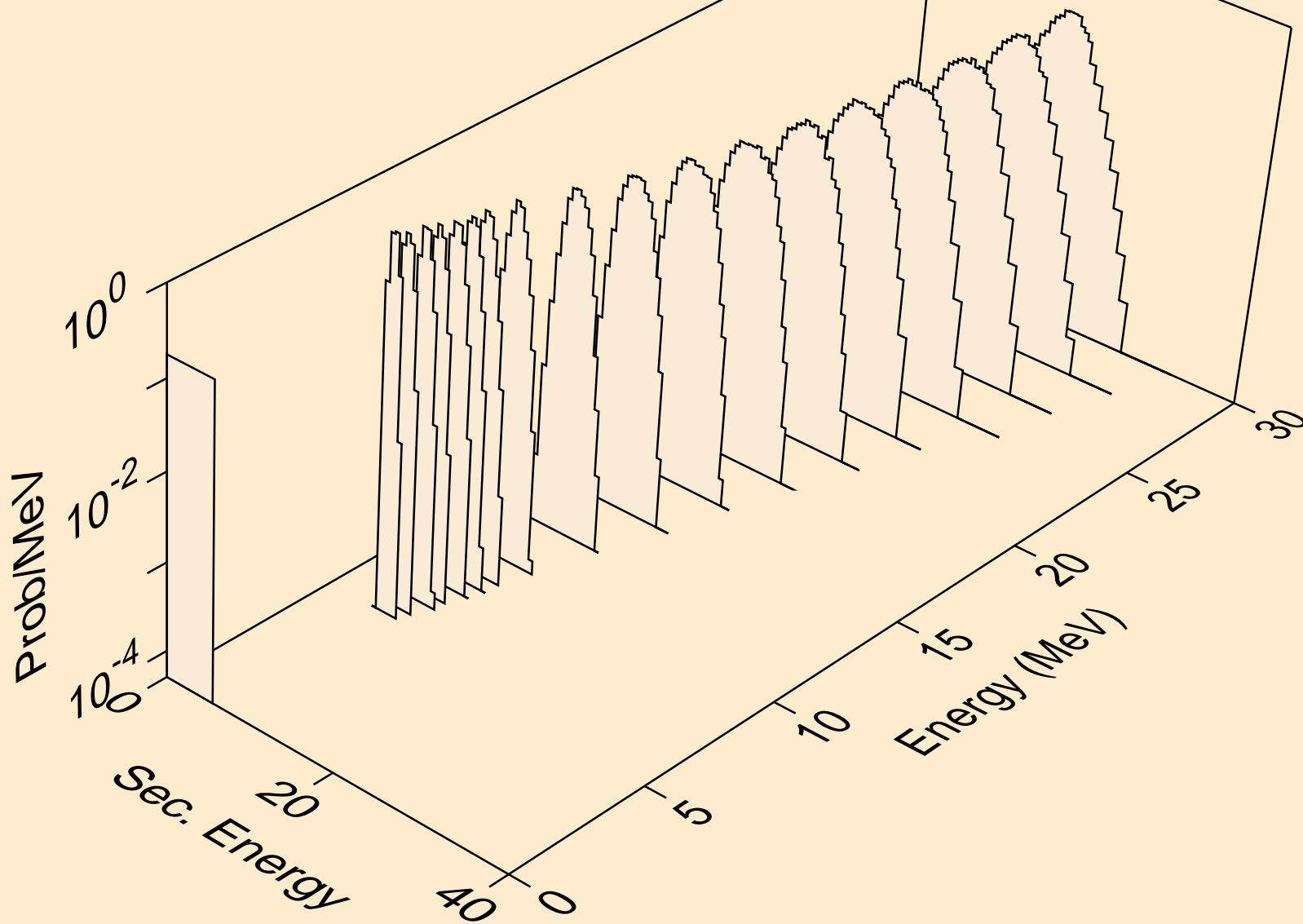
OS177 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
alphas from (n,2n)a



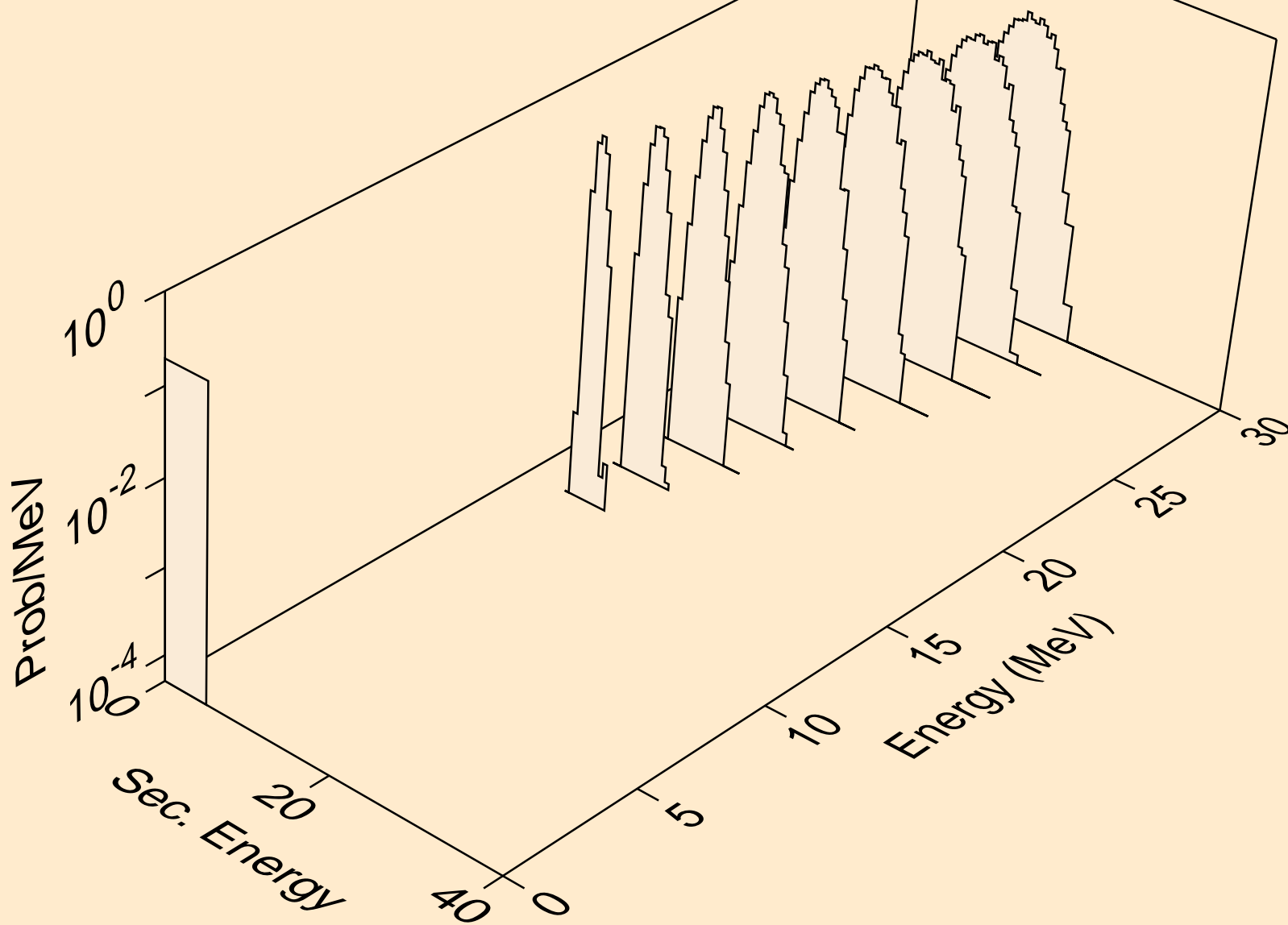
OS177 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
alphas from (n,3n)a



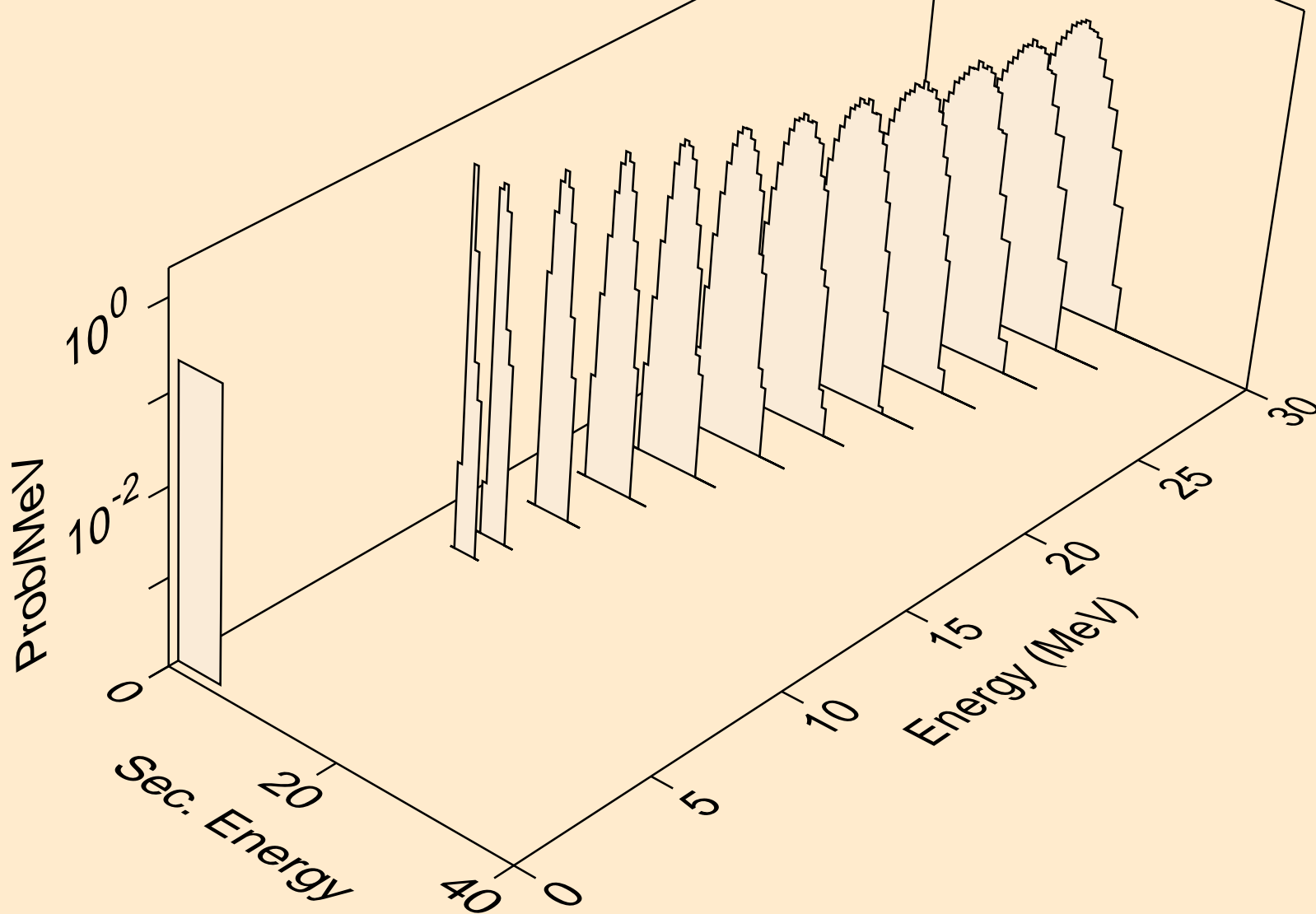
OS177 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
alphas from (n,n\*)2a



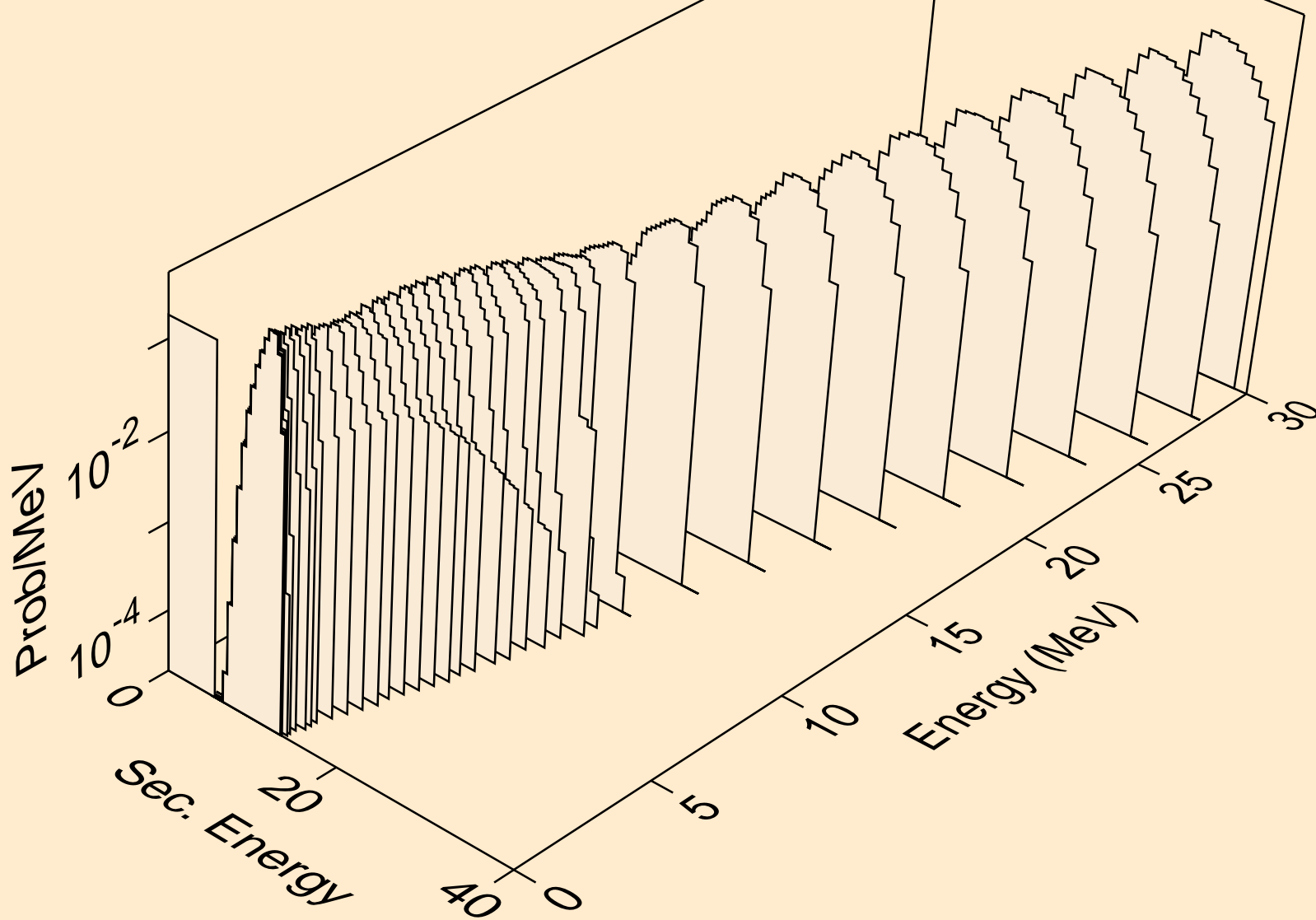
OS177 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
alphas from (n,2n)2a



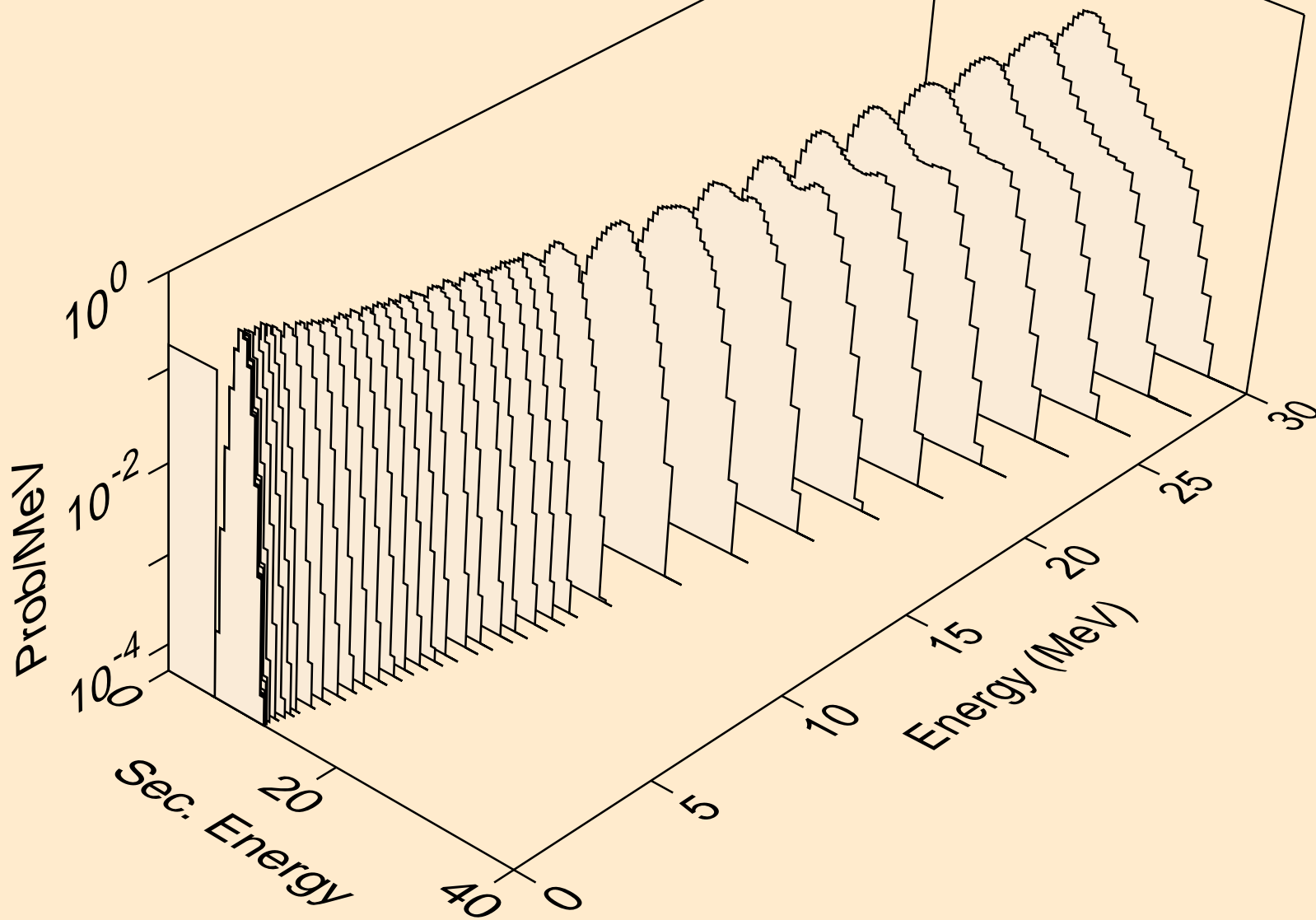
OS177 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
alphas from (n,npa)



OS177 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
alphas from (n,a)

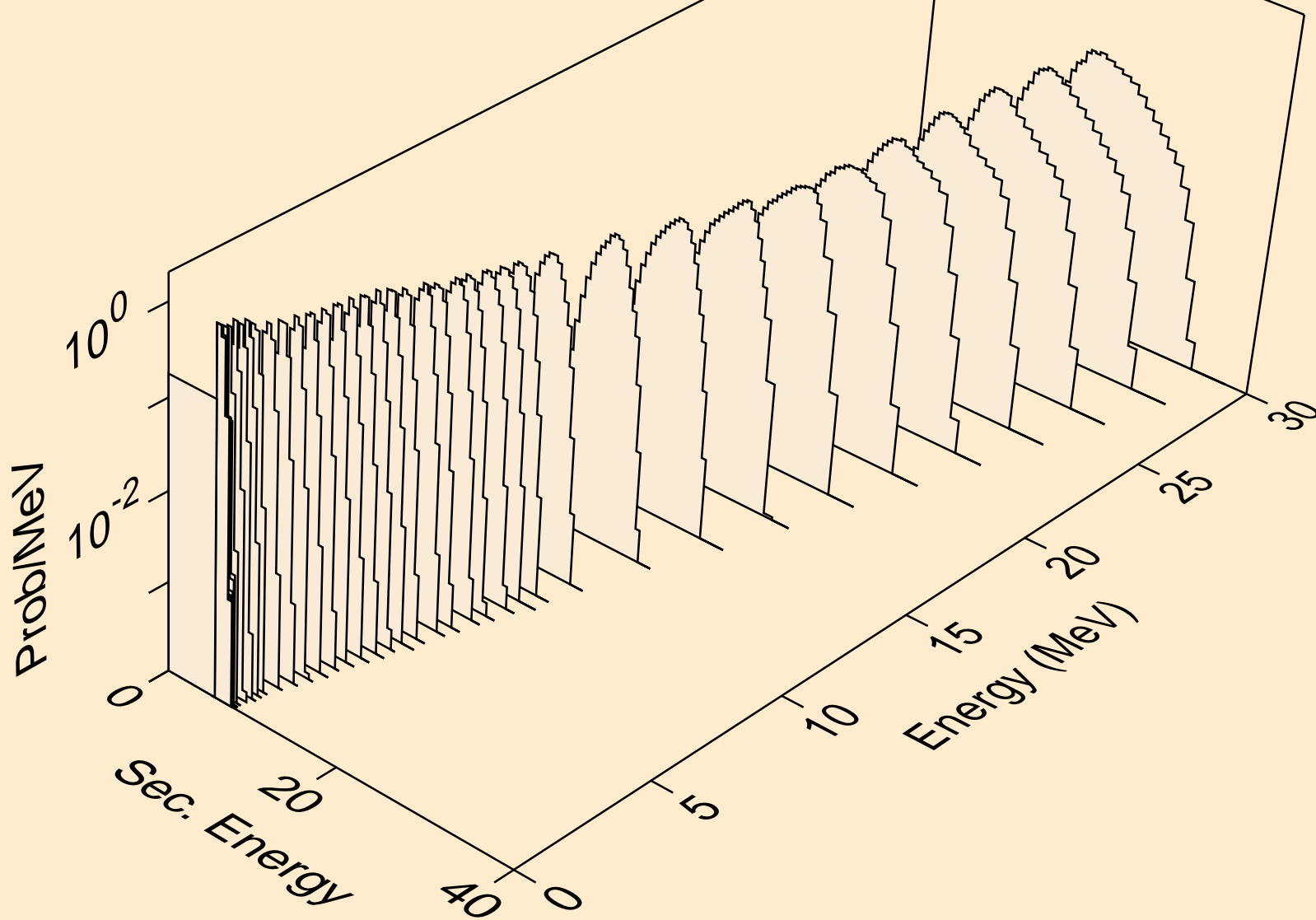


OS177 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
alphas from (n,2a)





OS177 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
alphas from (n,pa)



OS177 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
alphas from (n,da)

