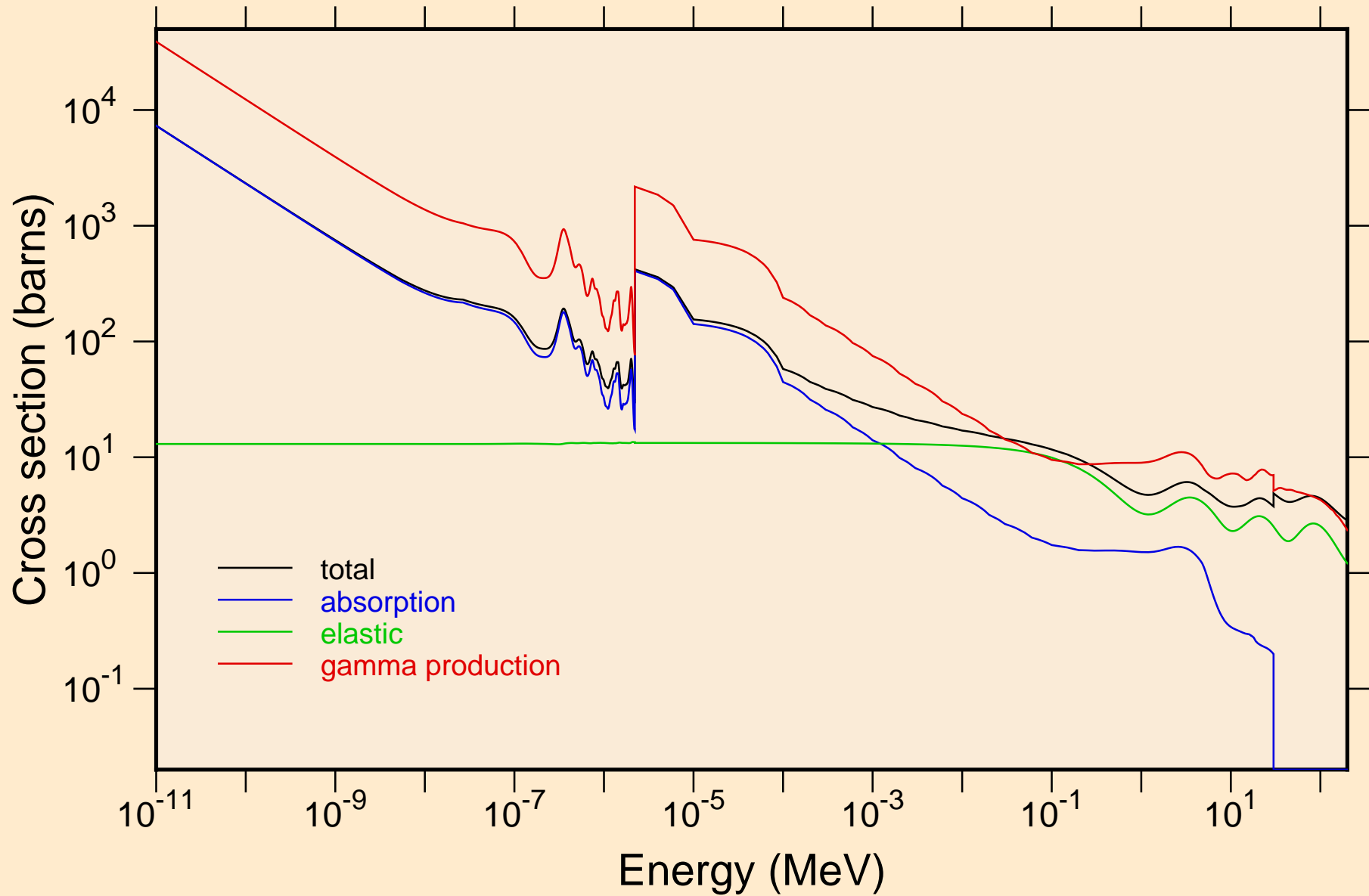
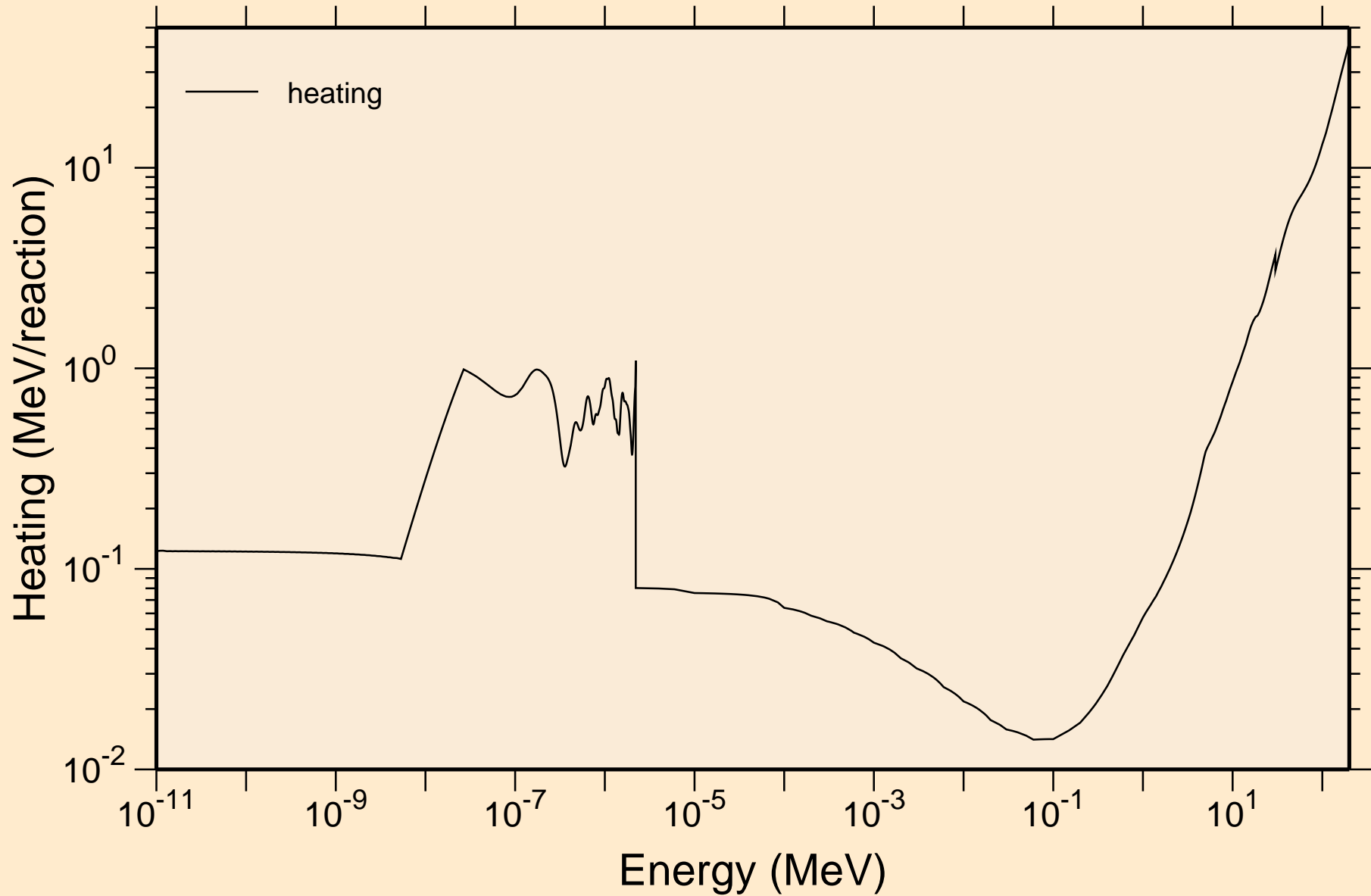


# PB189 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

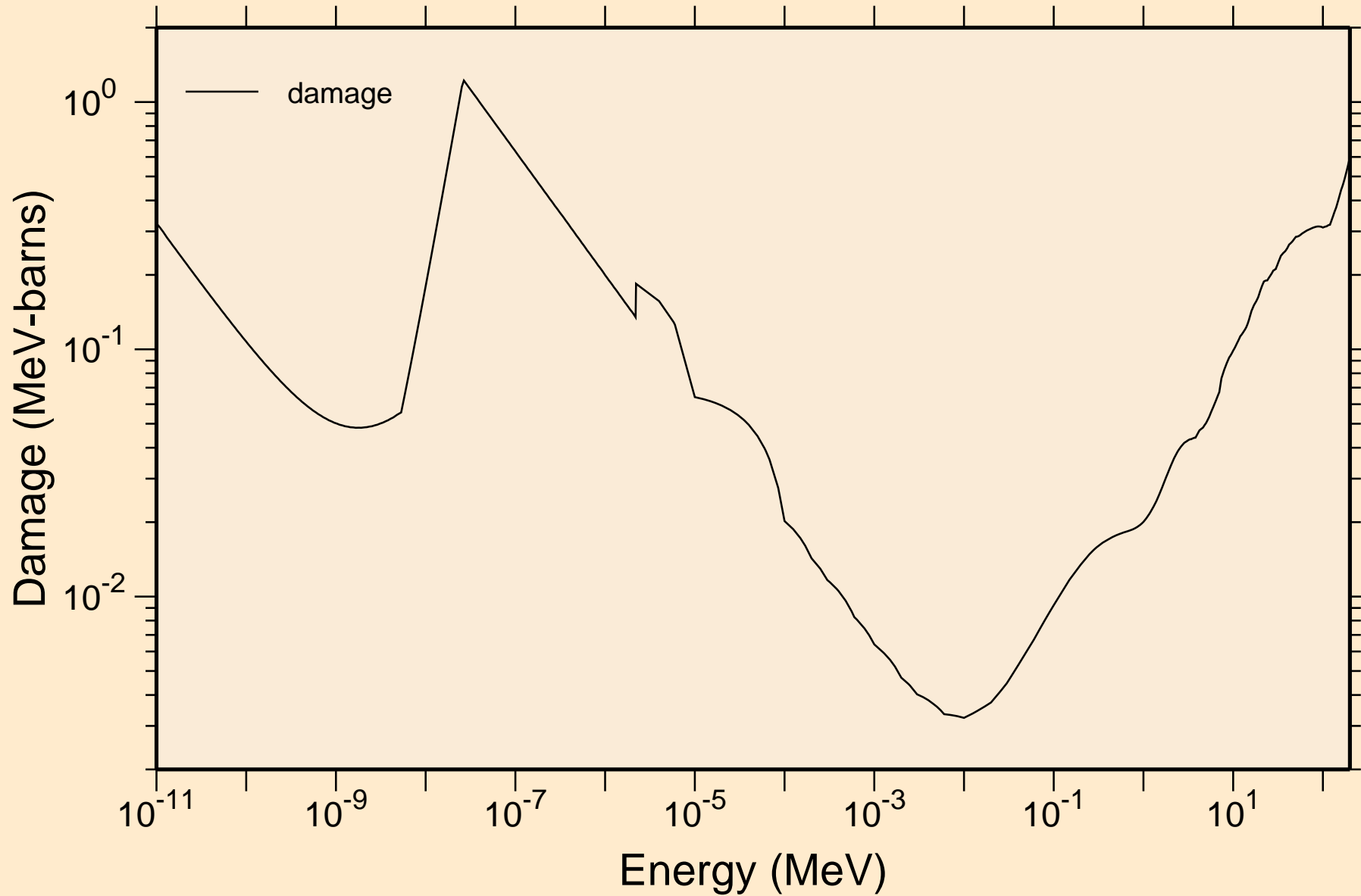
## Principal cross sections



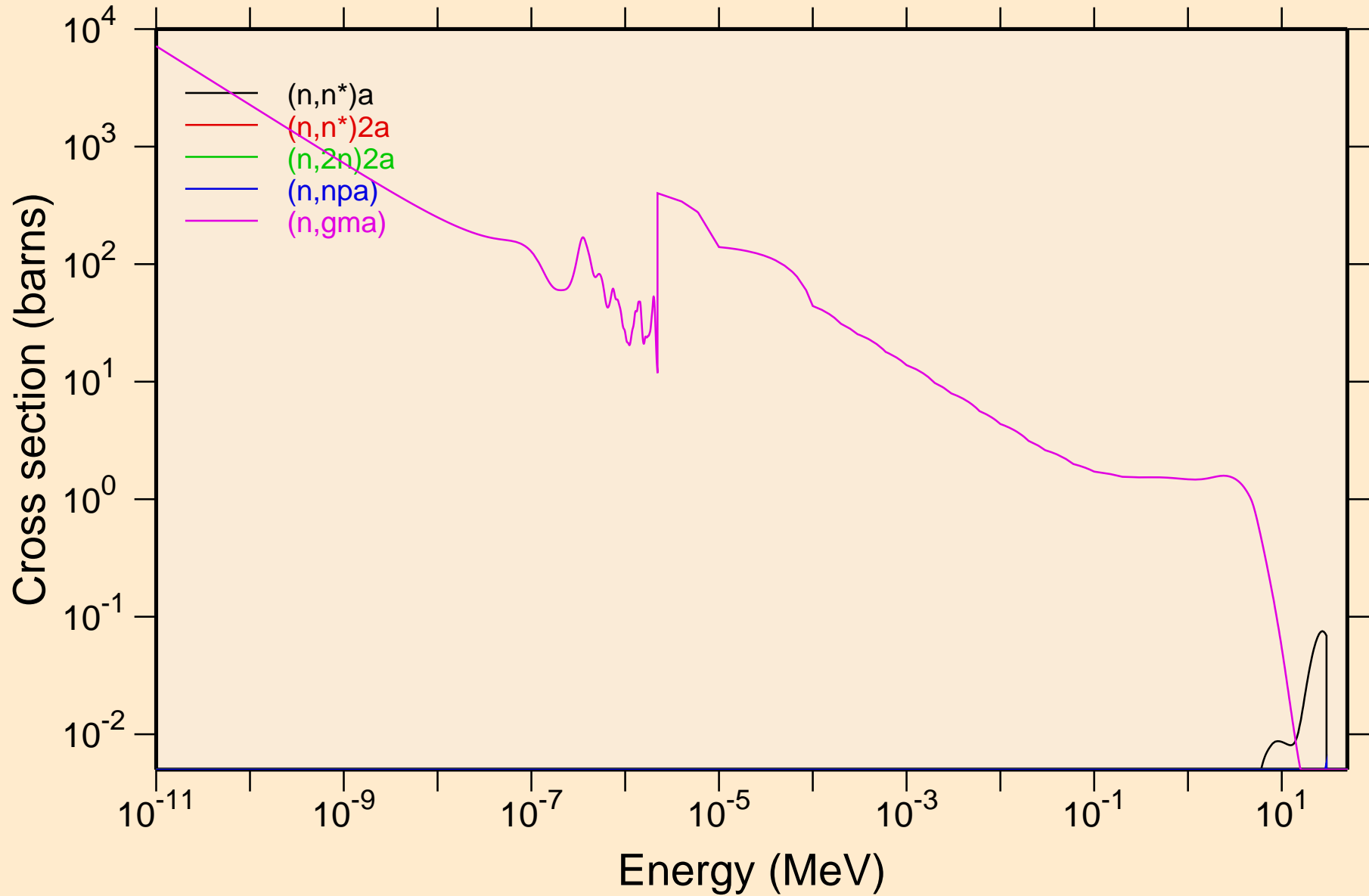
PB189 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Heating



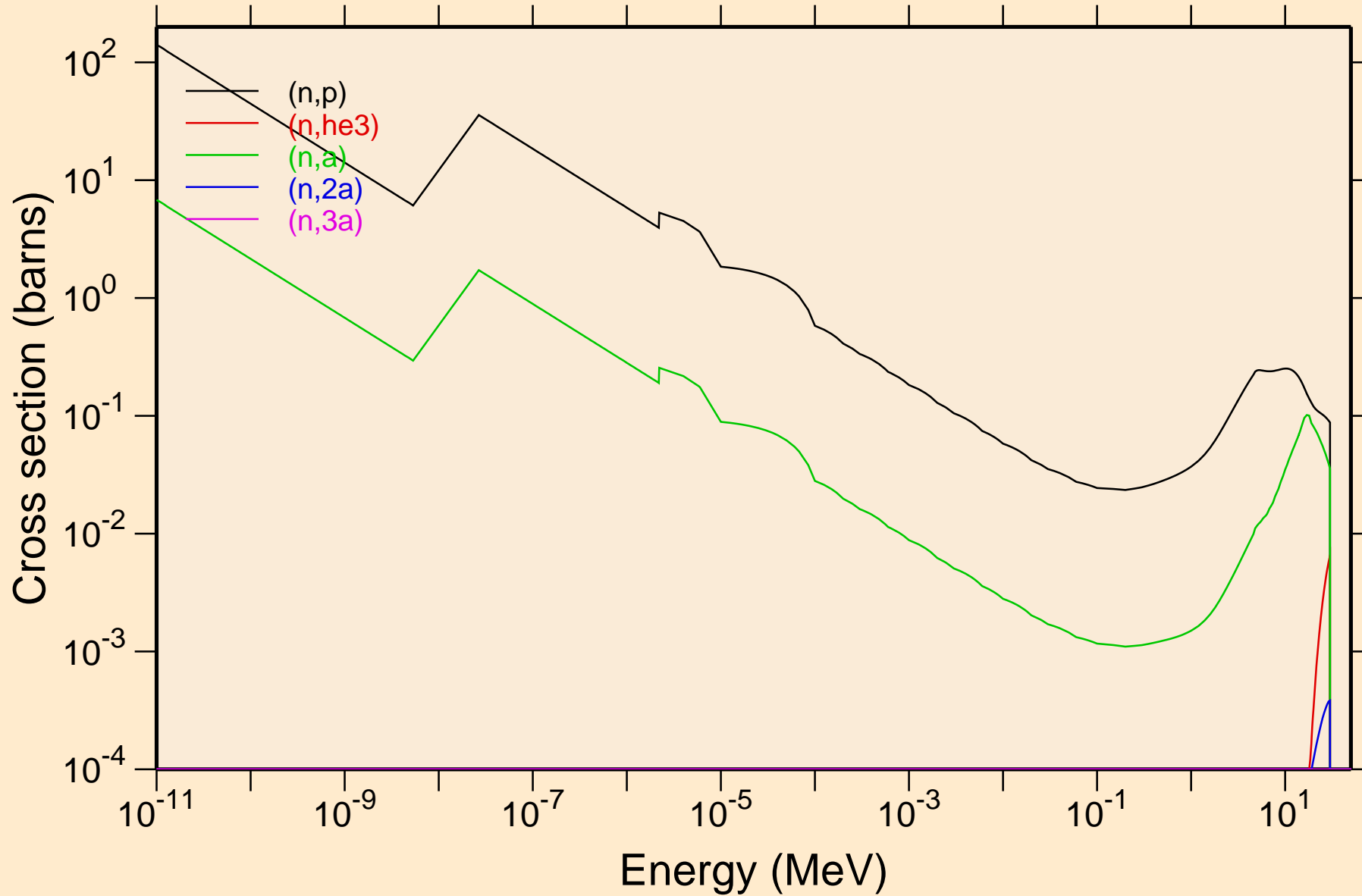
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Damage



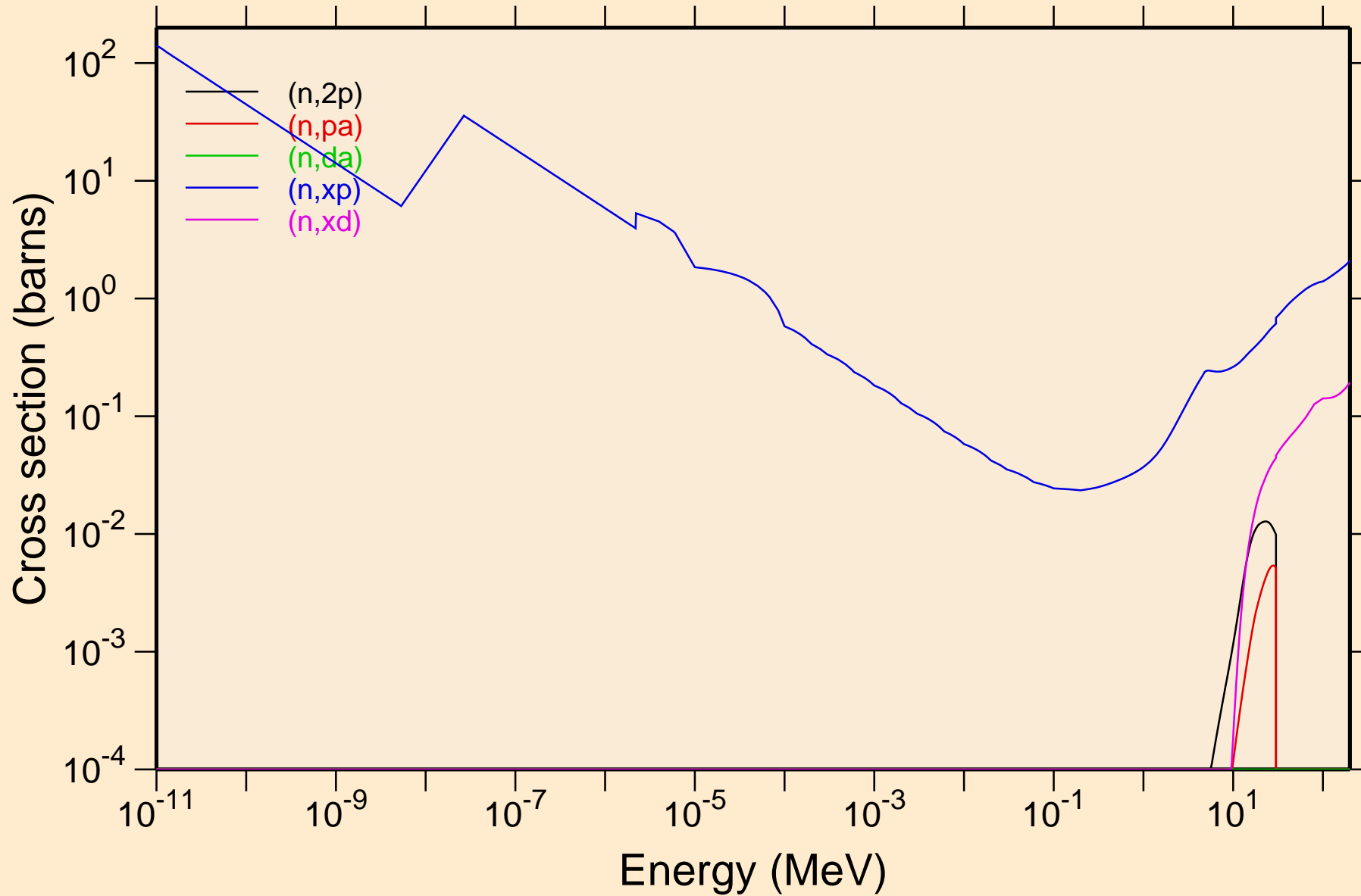
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Non-threshold reactions



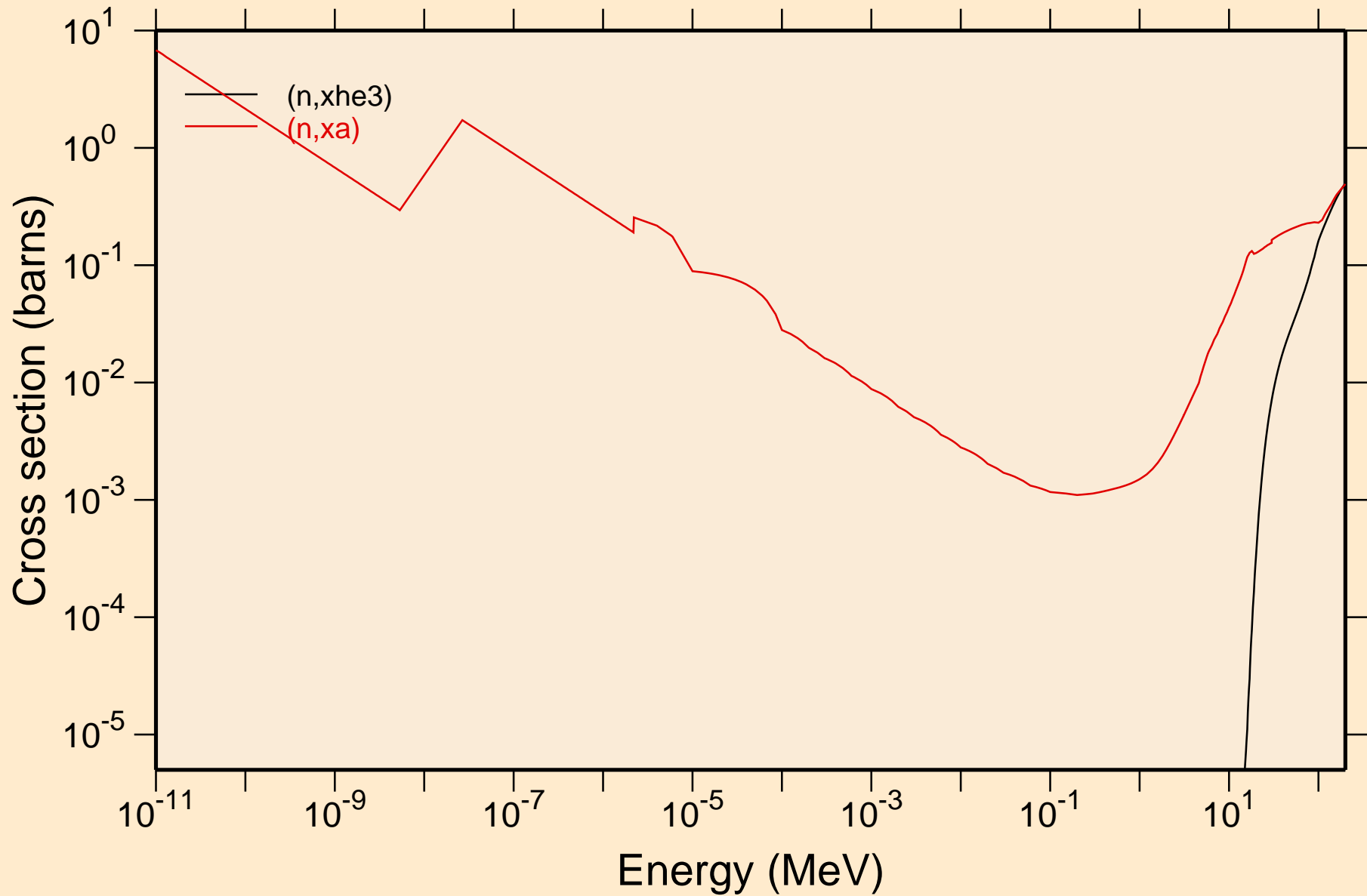
PB189 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Non-threshold reactions



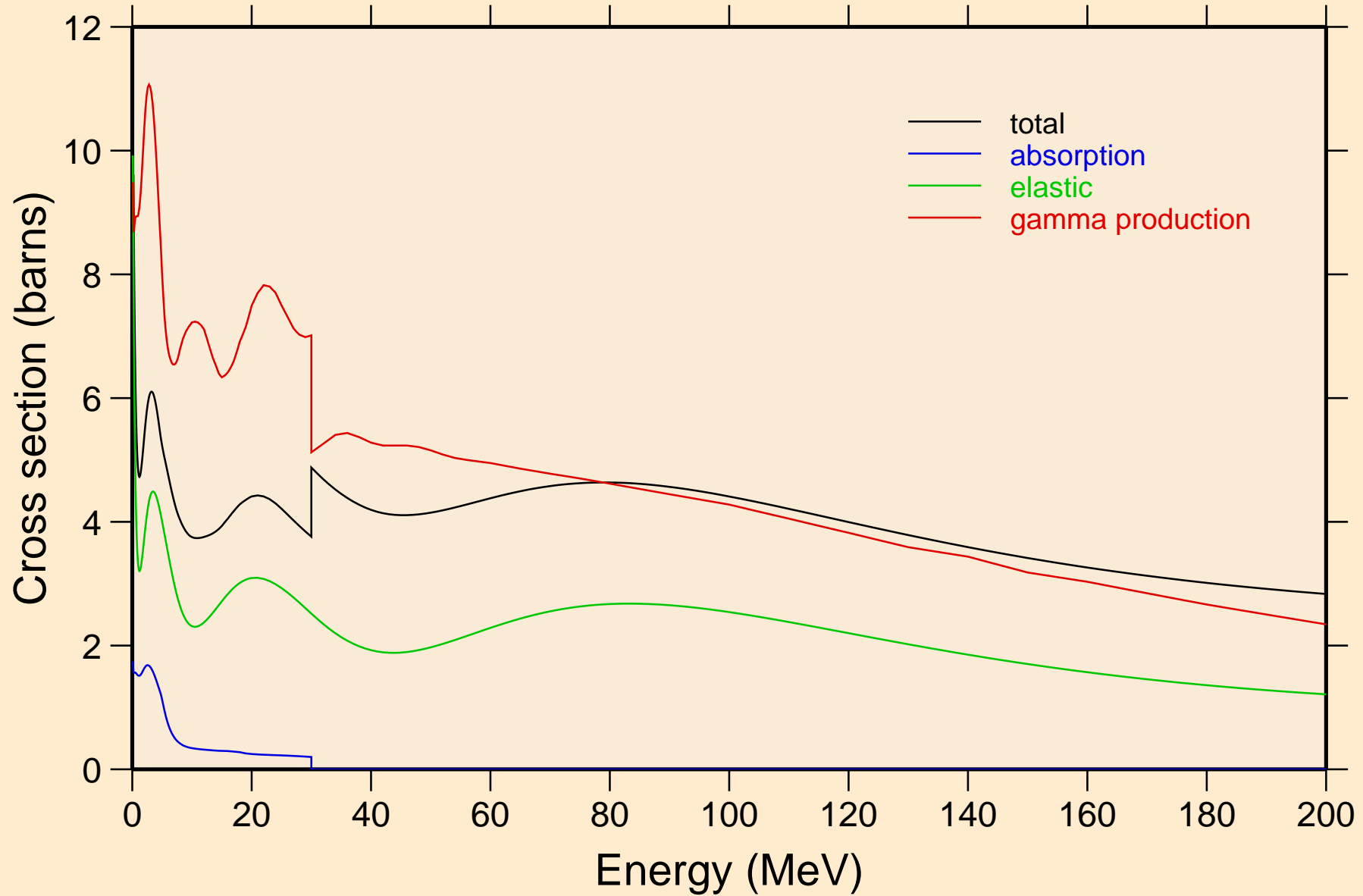
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Non-threshold reactions



PB189 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Non-threshold reactions



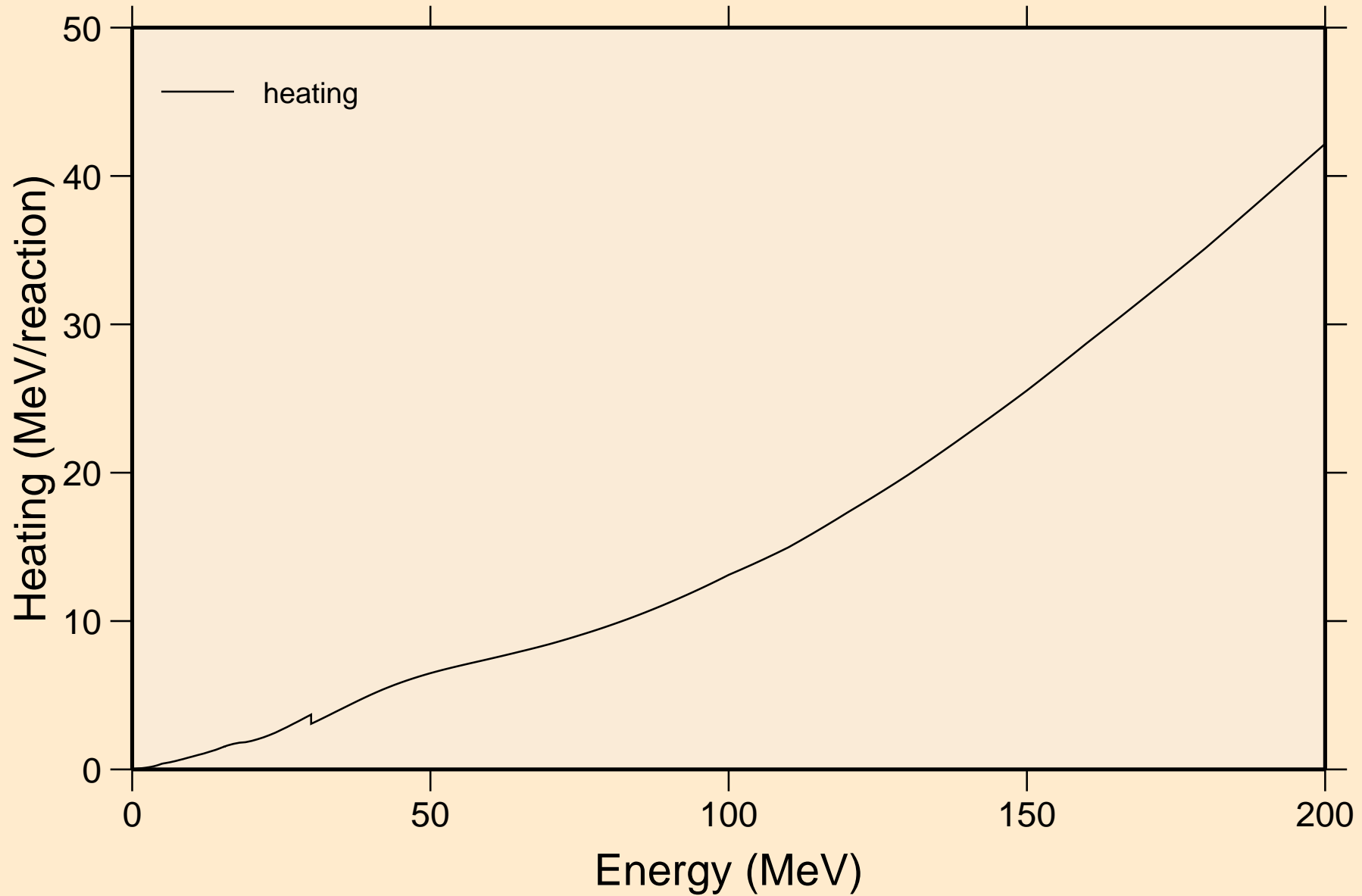
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Principal cross sections



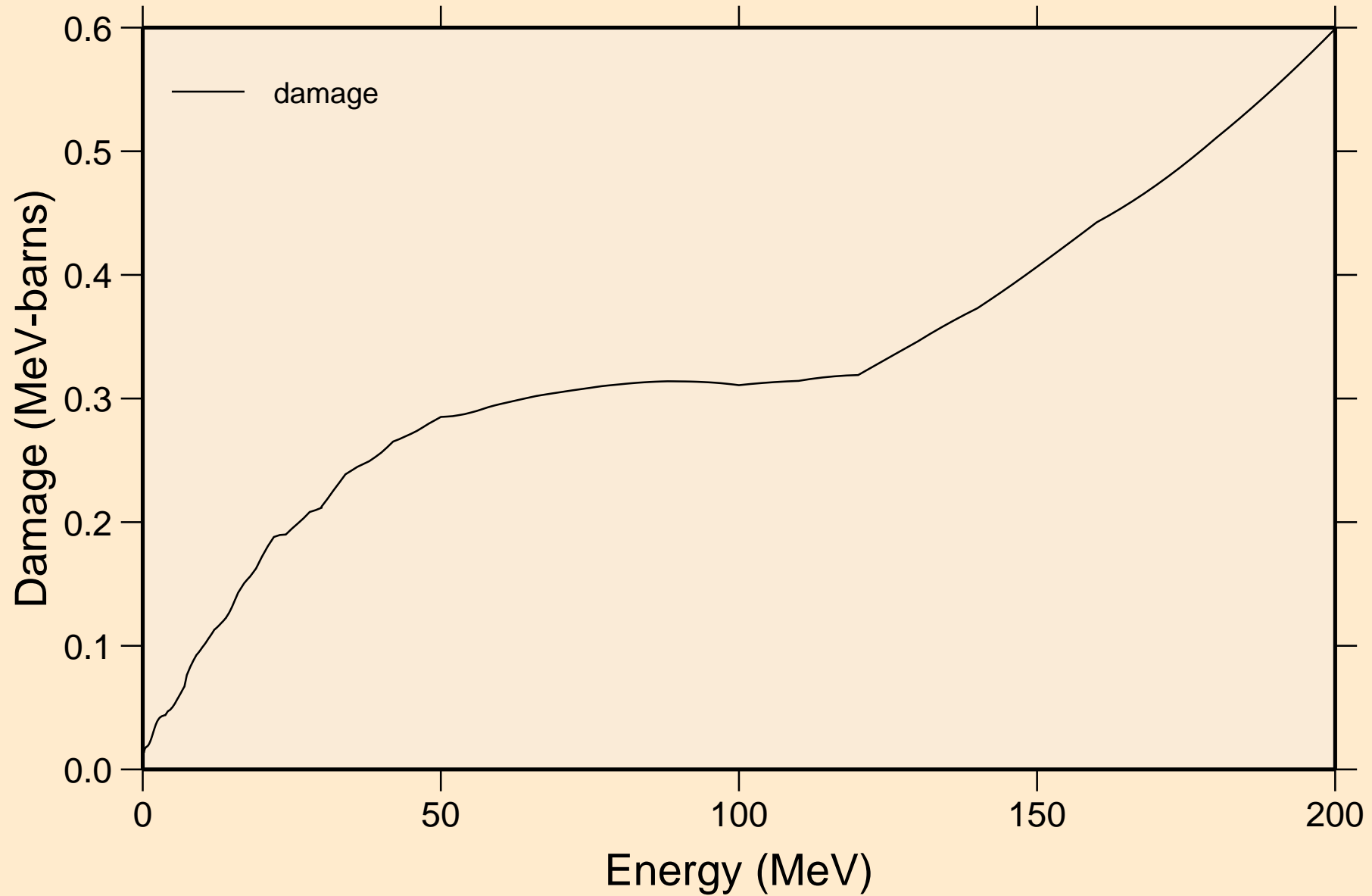


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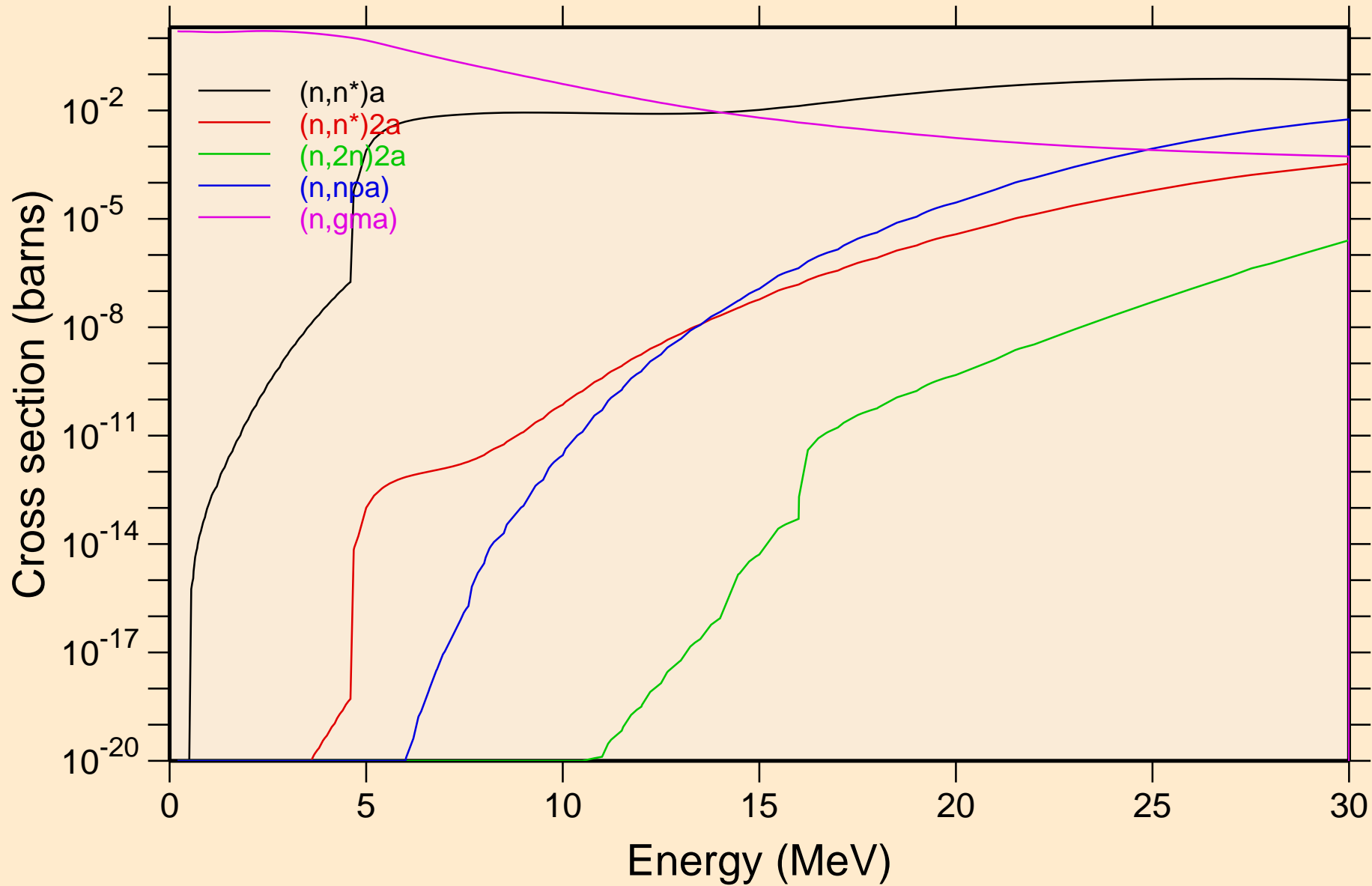
Heating



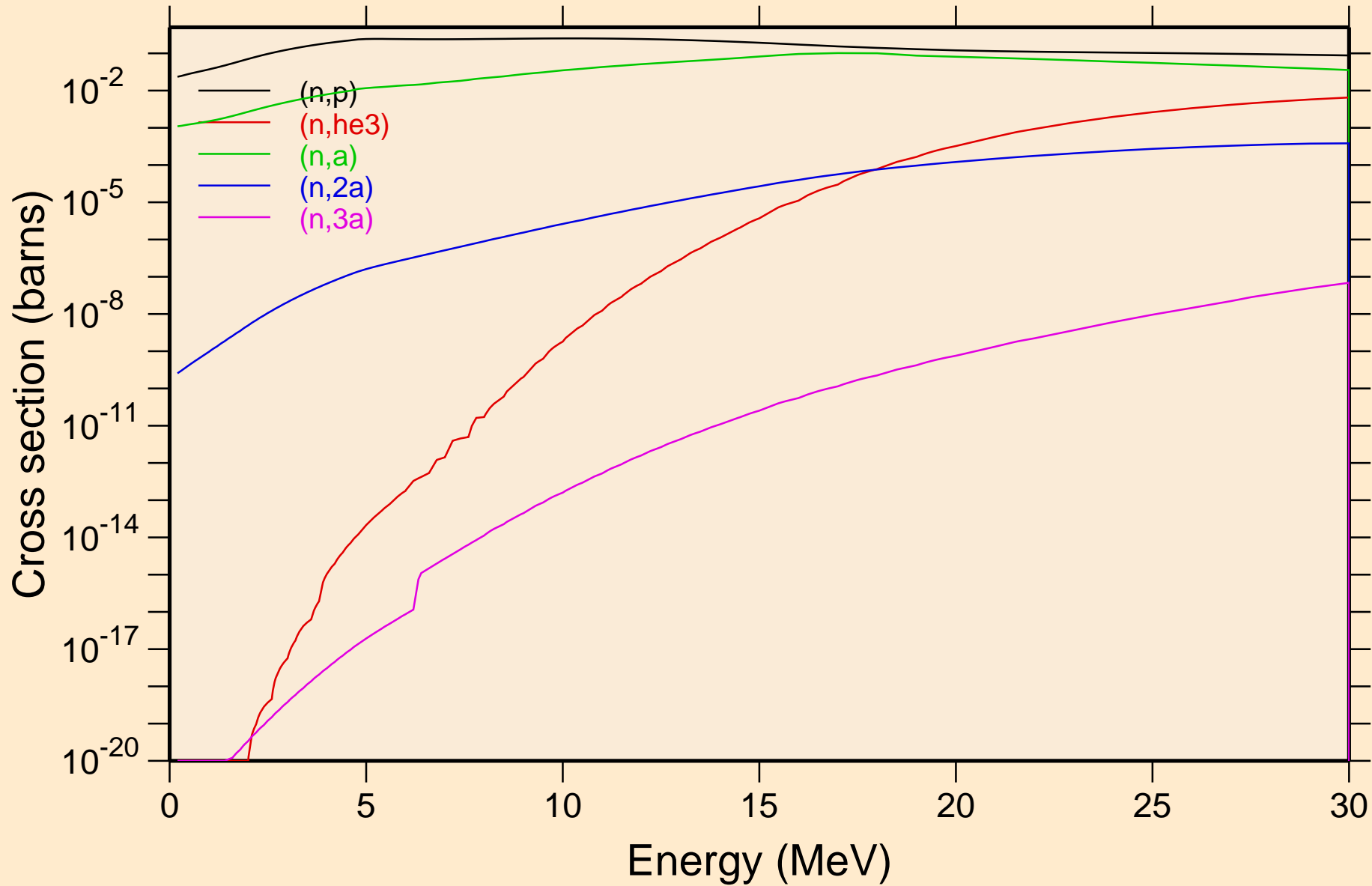
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Damage



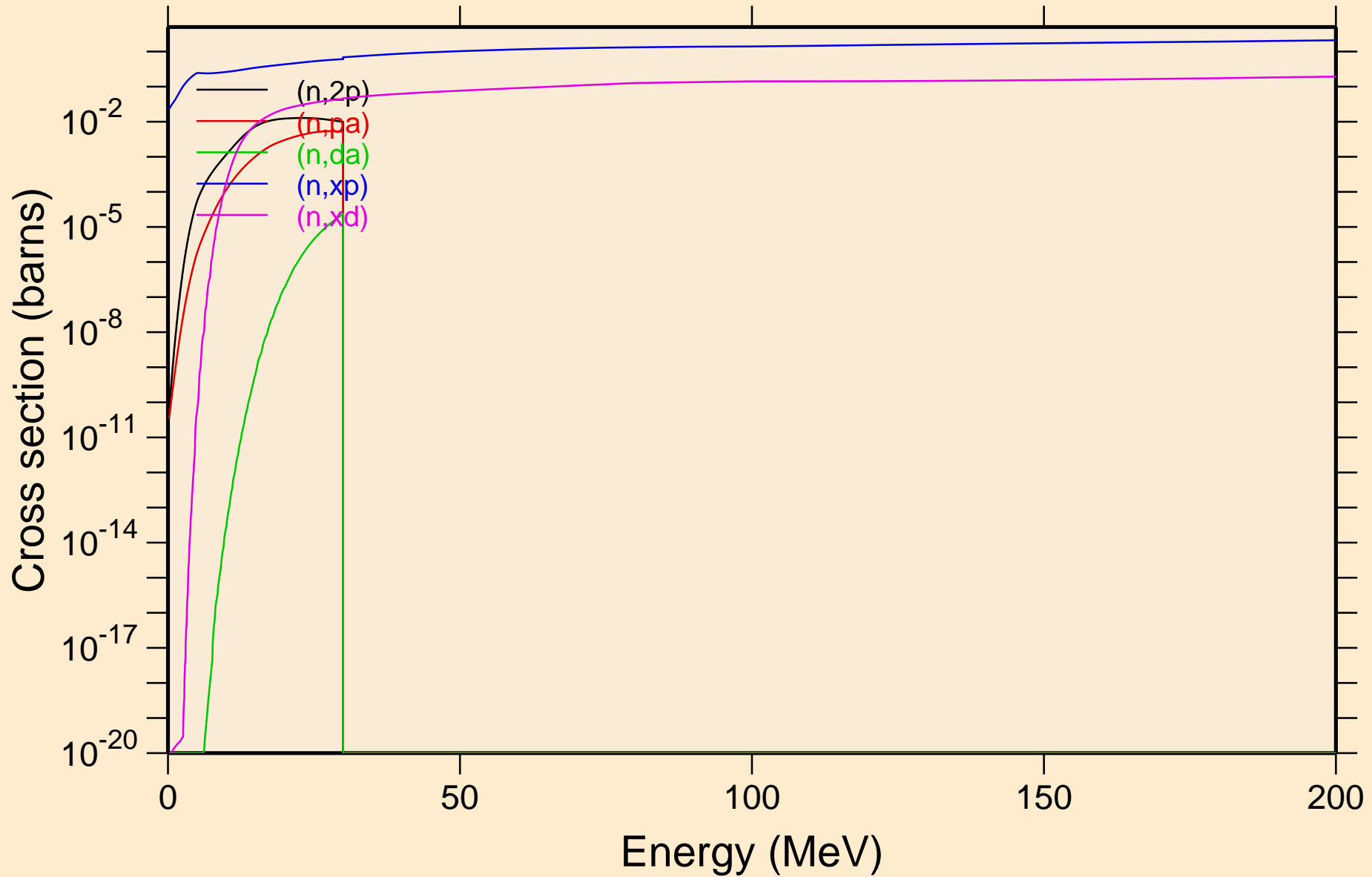
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Non-threshold reactions



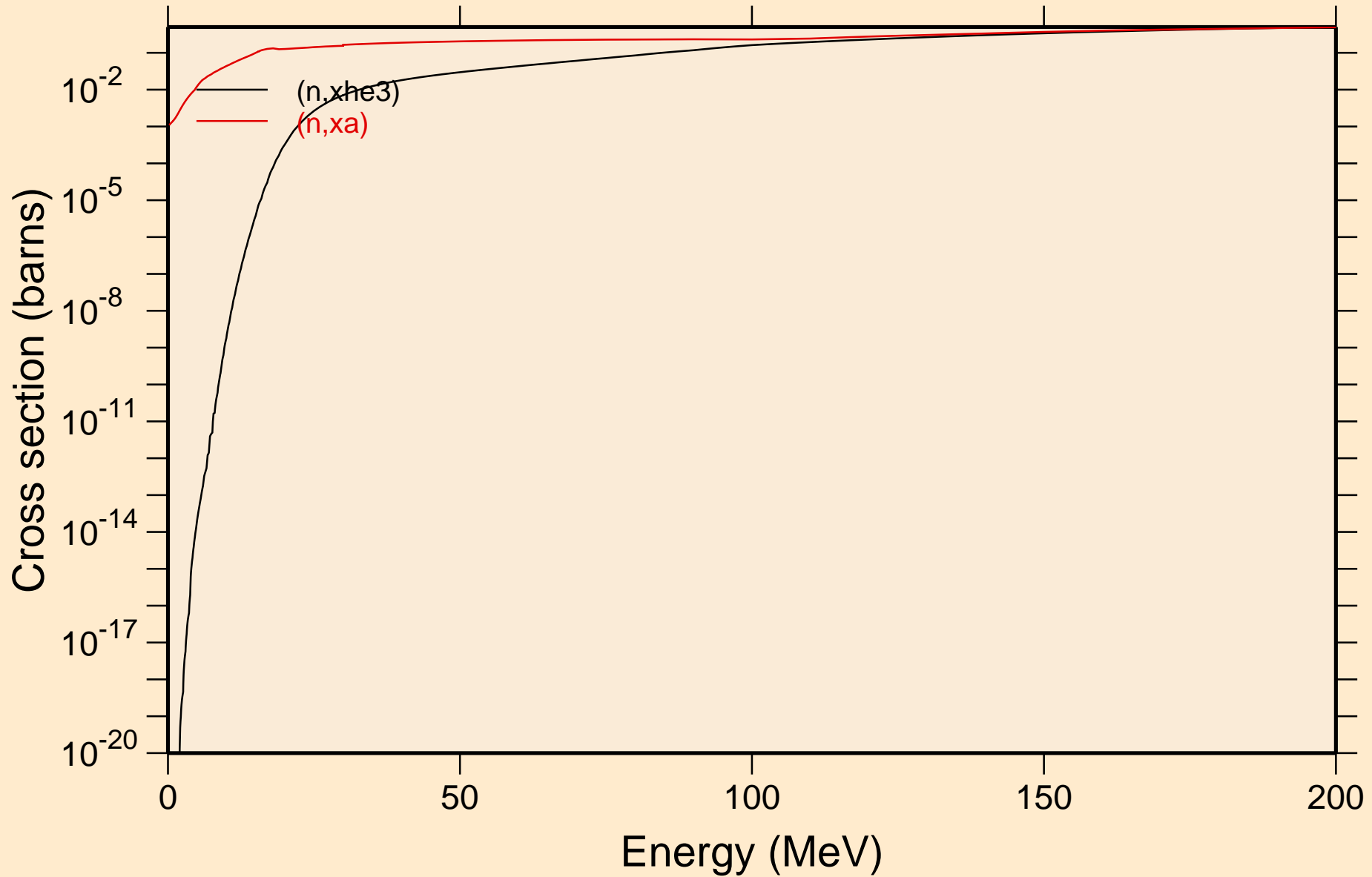
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Non-threshold reactions



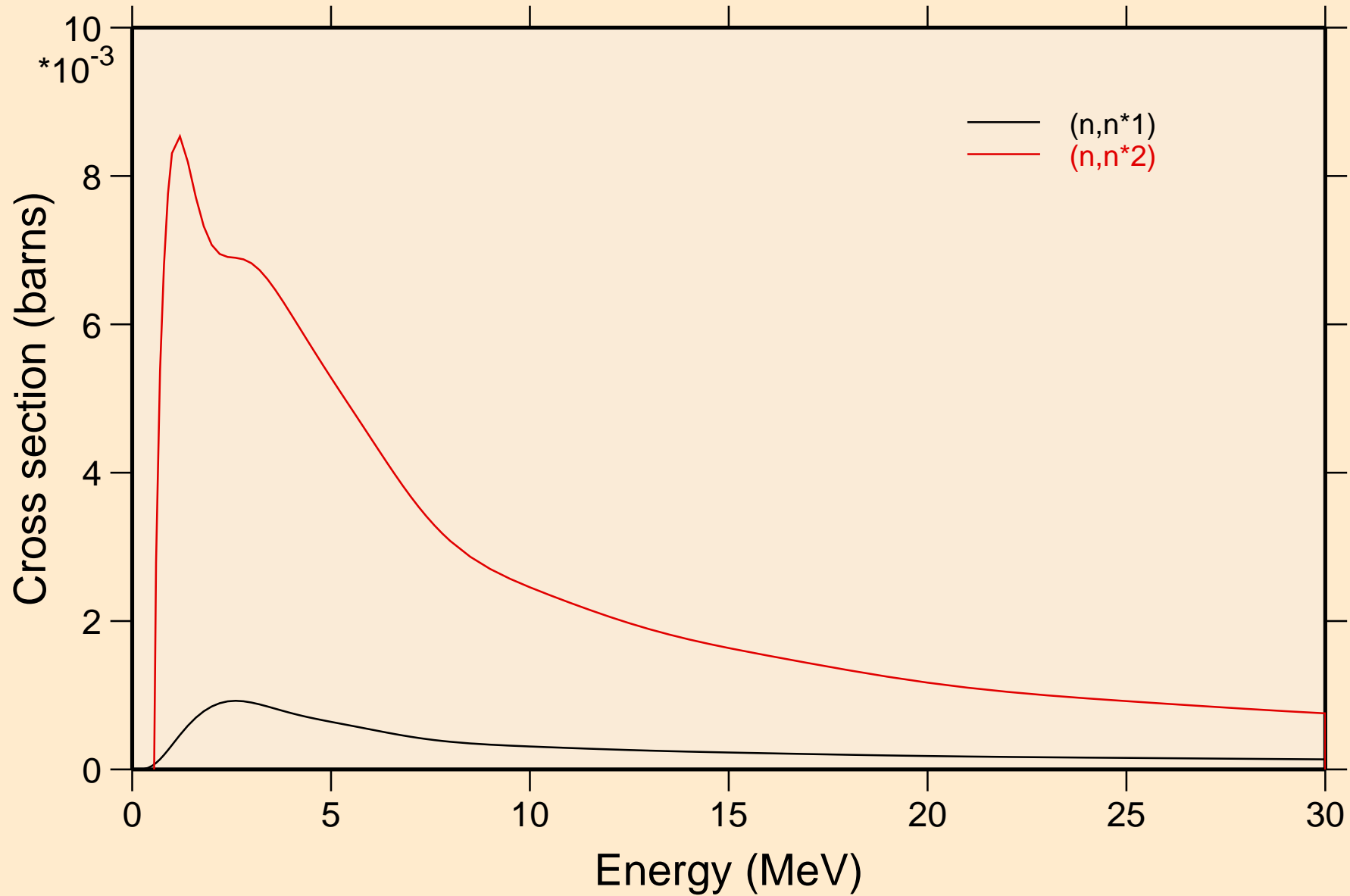
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Non-threshold reactions



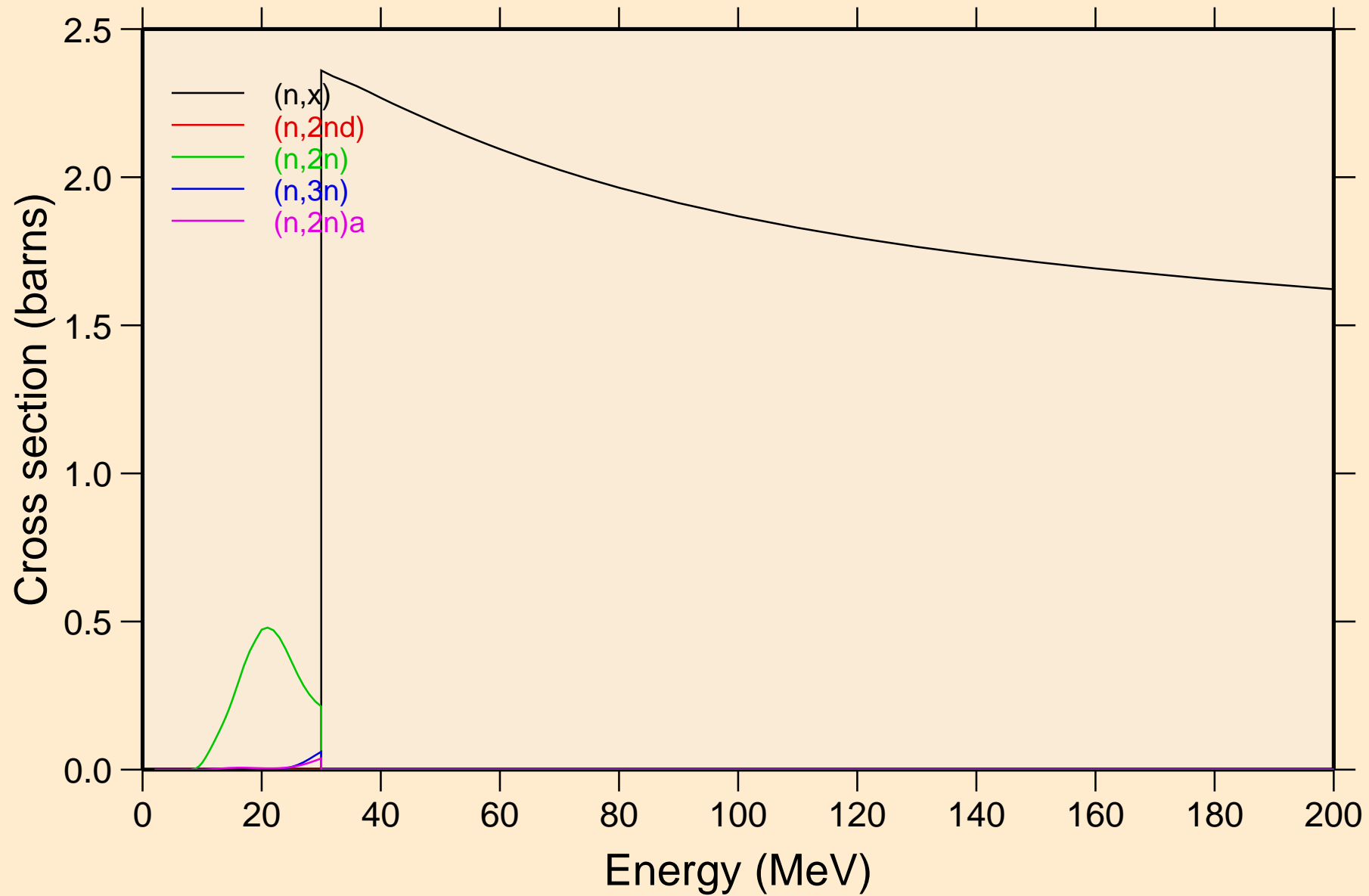
PB189 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Non-threshold reactions



PB189 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Inelastic levels

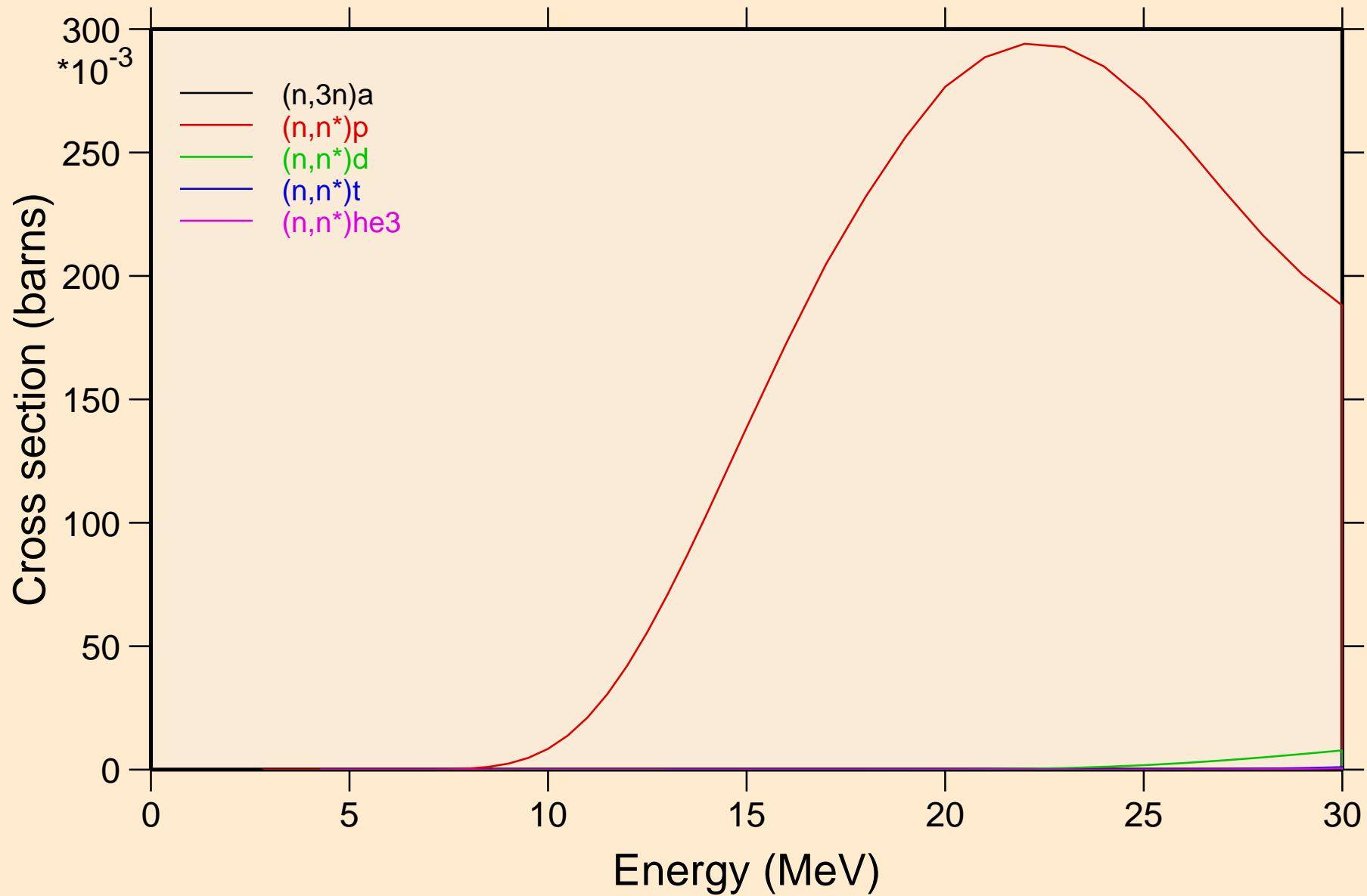


PB189 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Threshold reactions

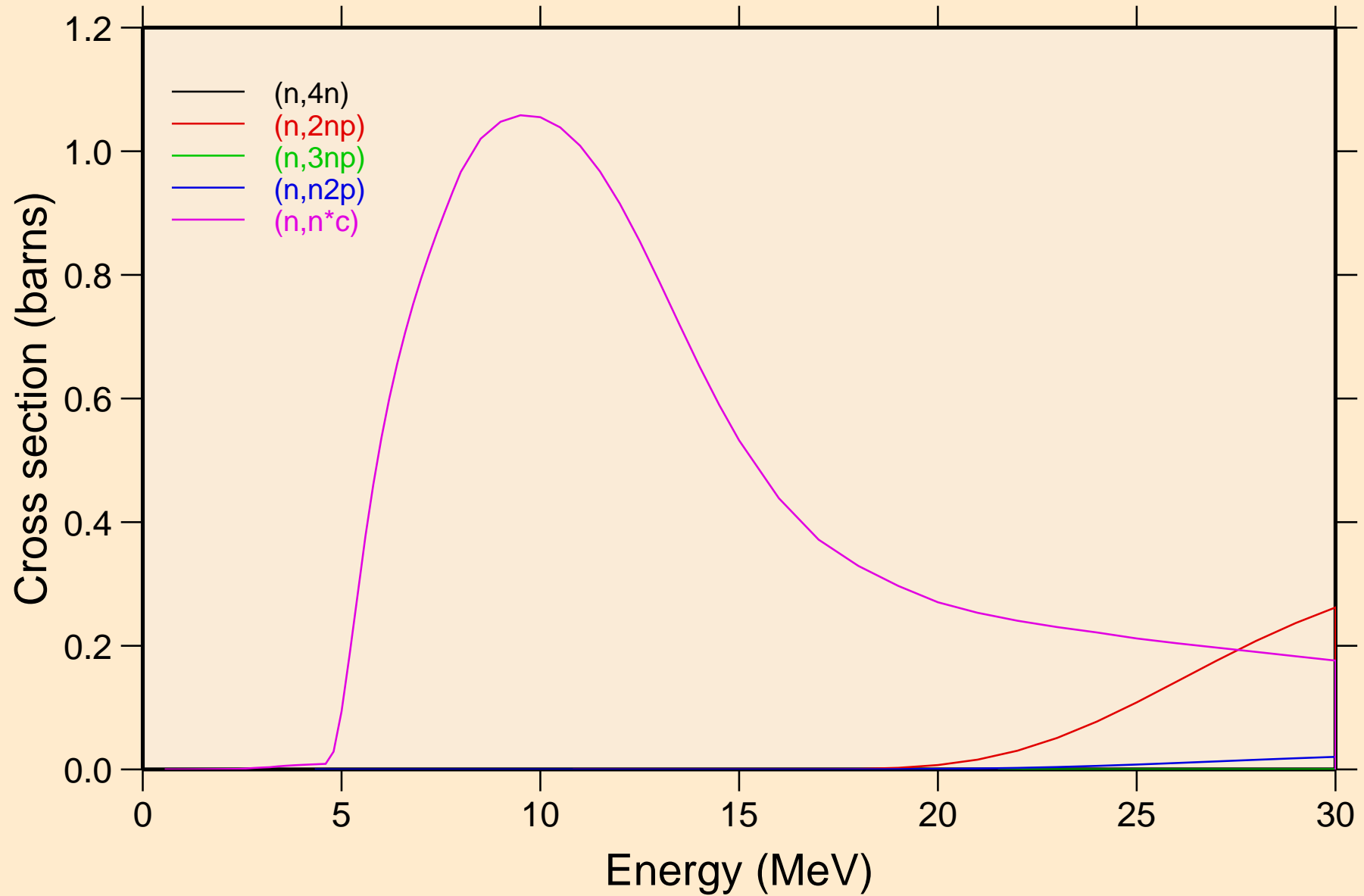




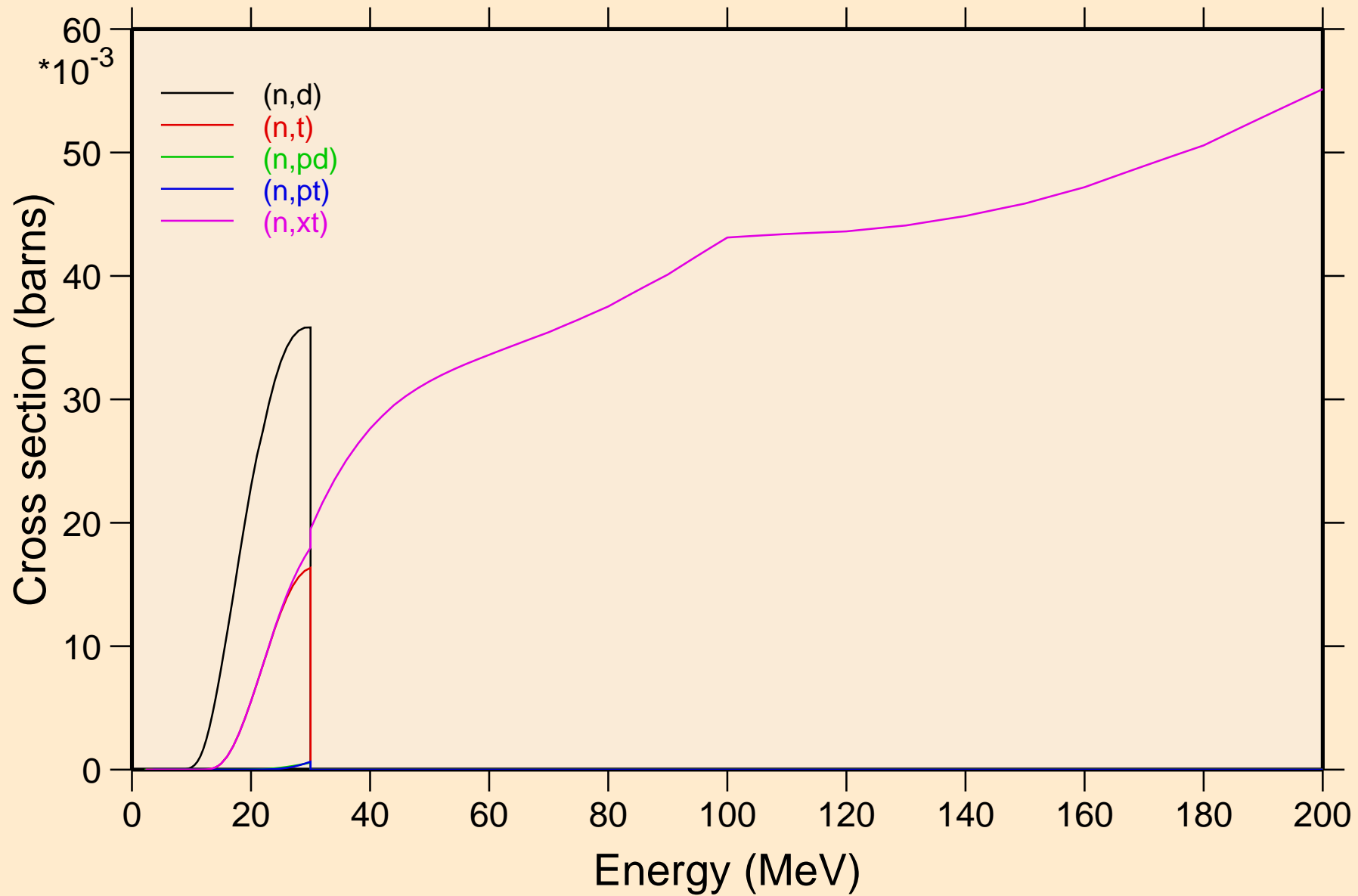
PB189 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Threshold reactions



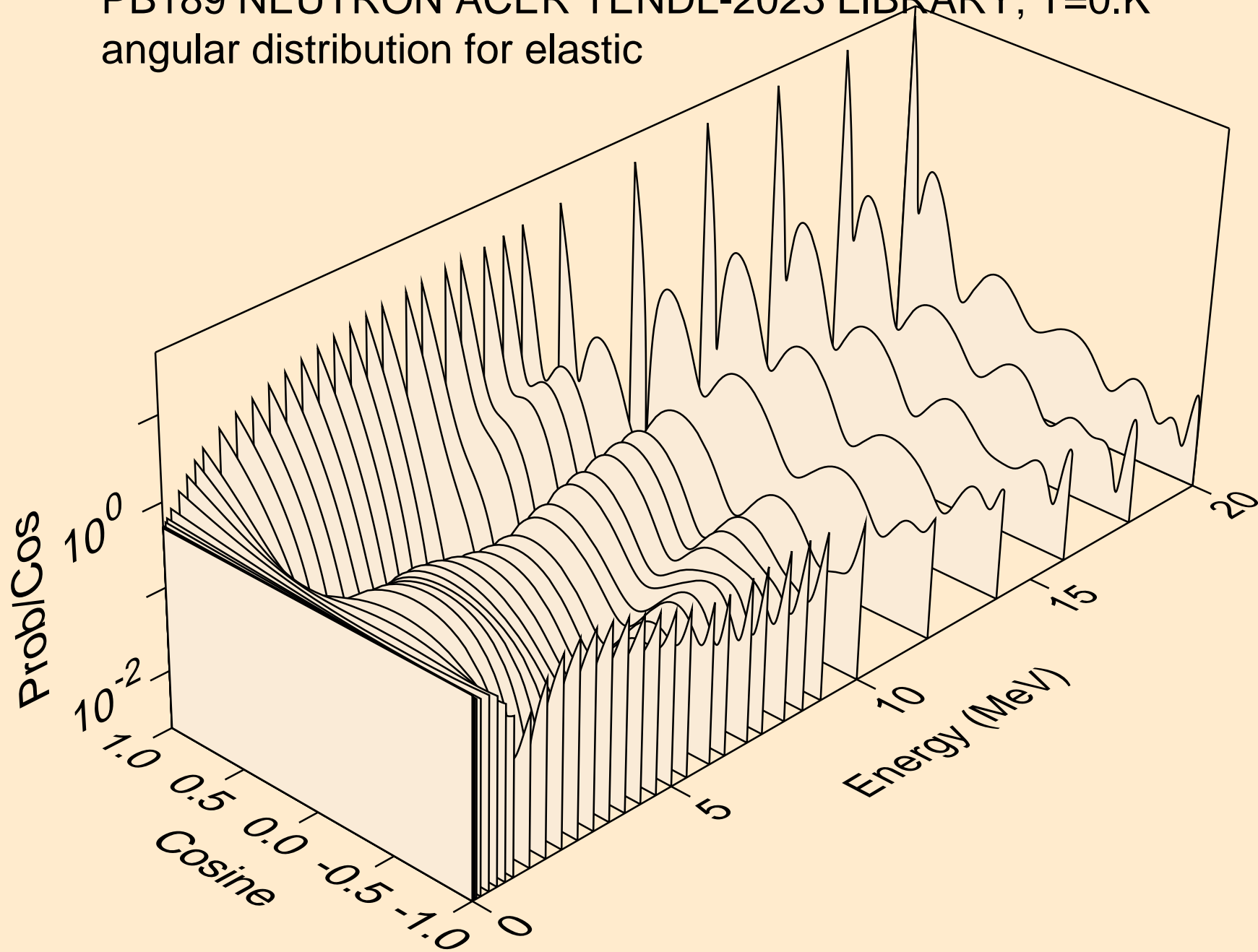
PB189 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Threshold reactions



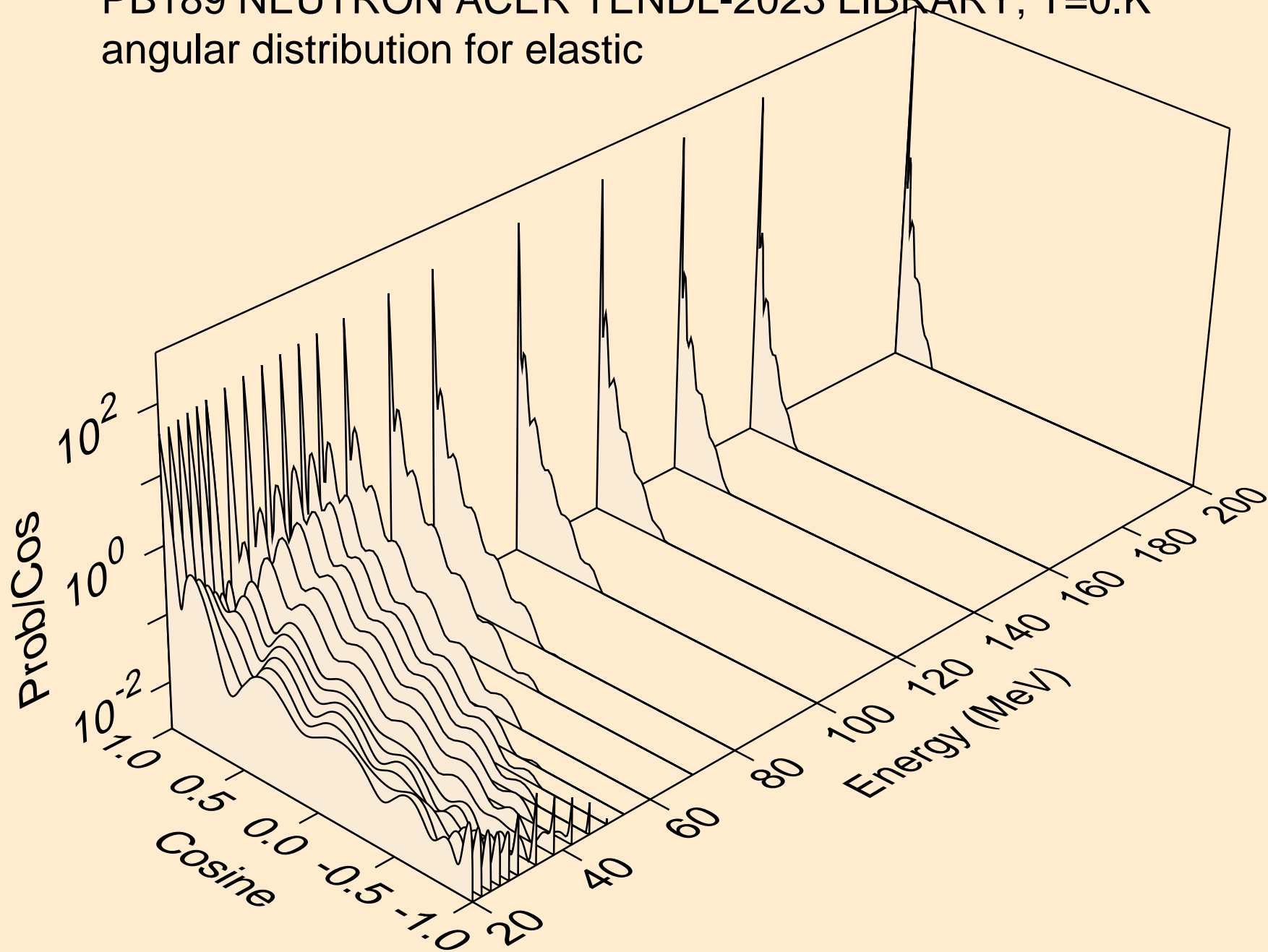
PB189 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Threshold reactions



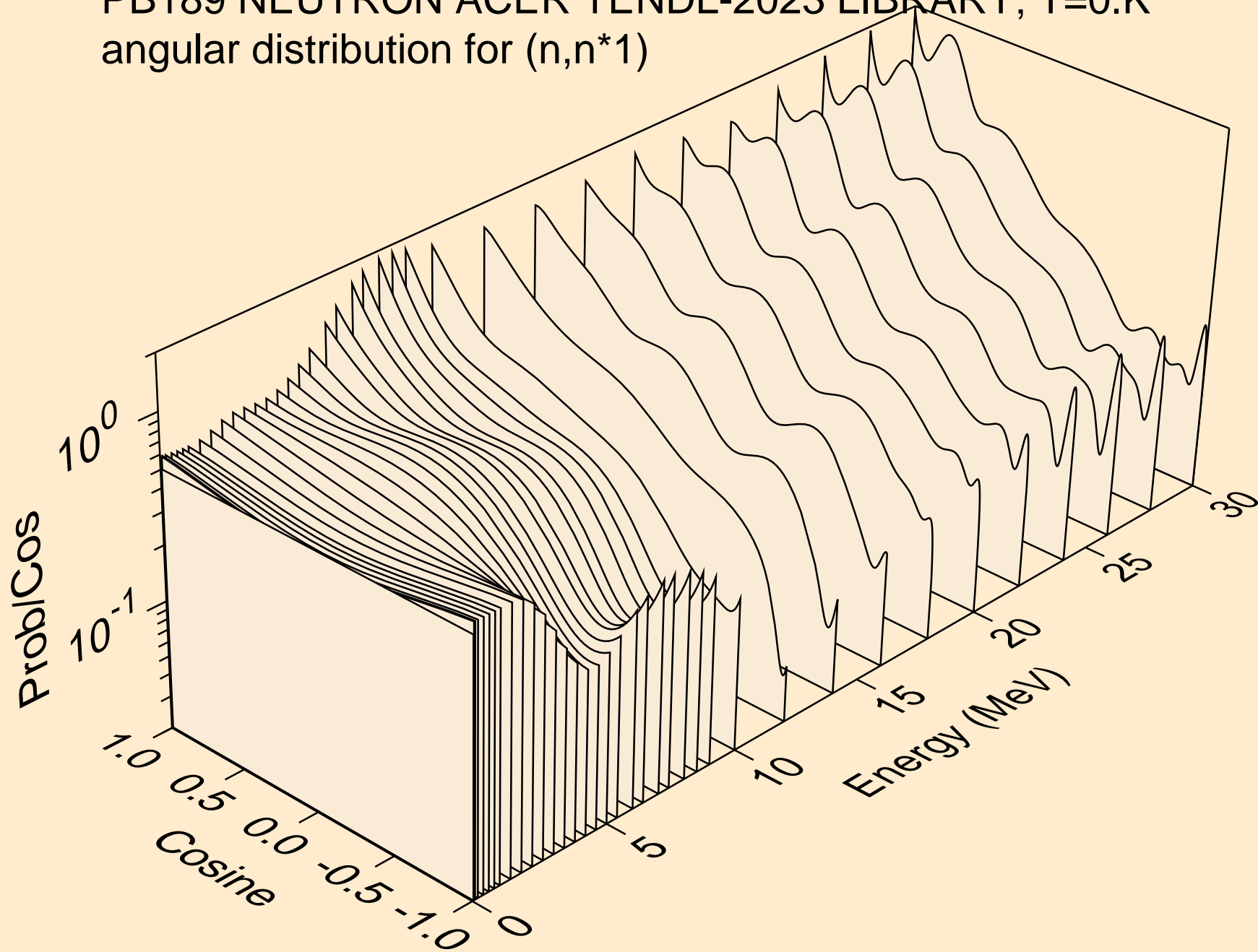
PB189 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for elastic



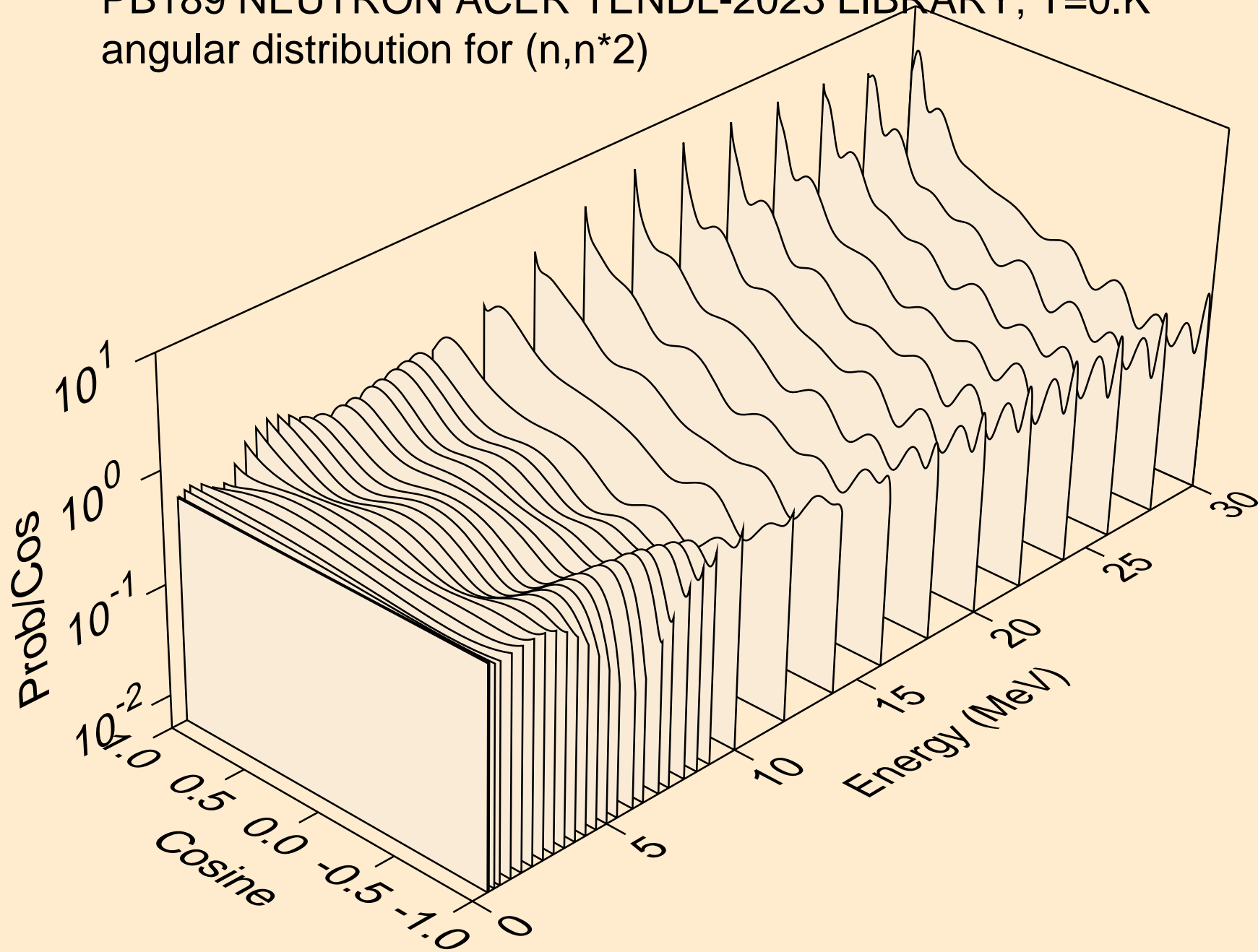
PB189 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for elastic



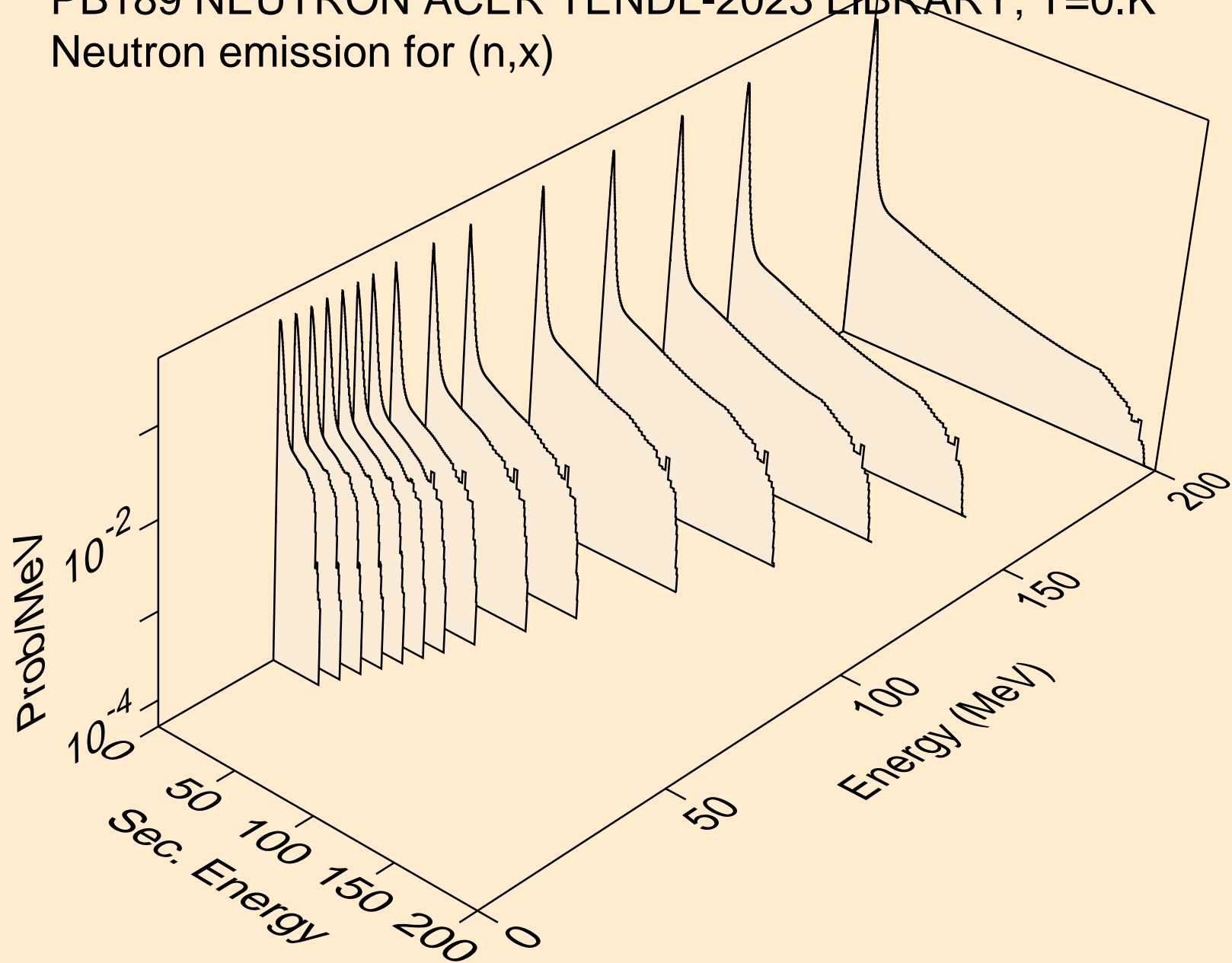
PB189 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*1)



PB189 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*2)

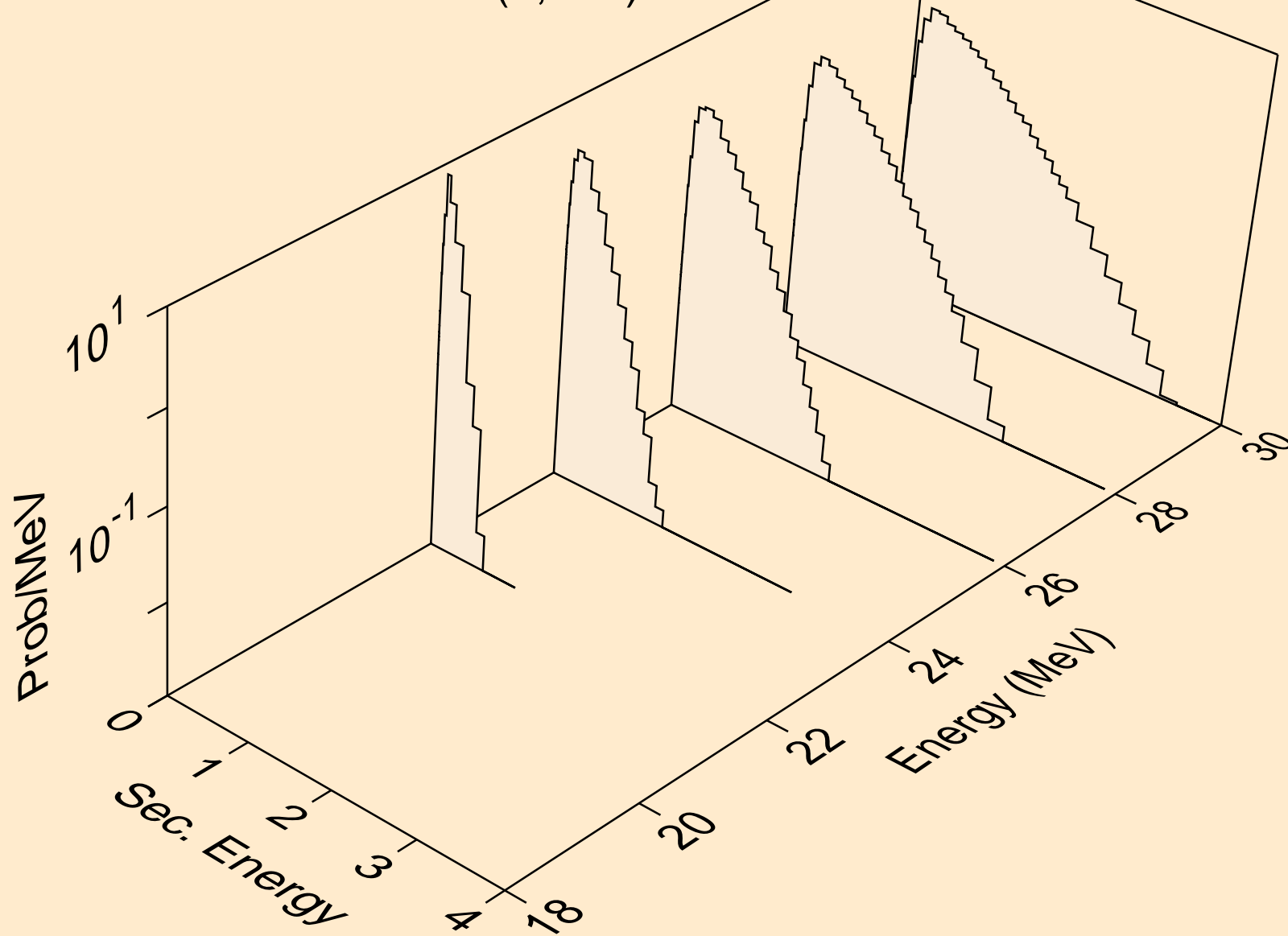


PB189 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,x)

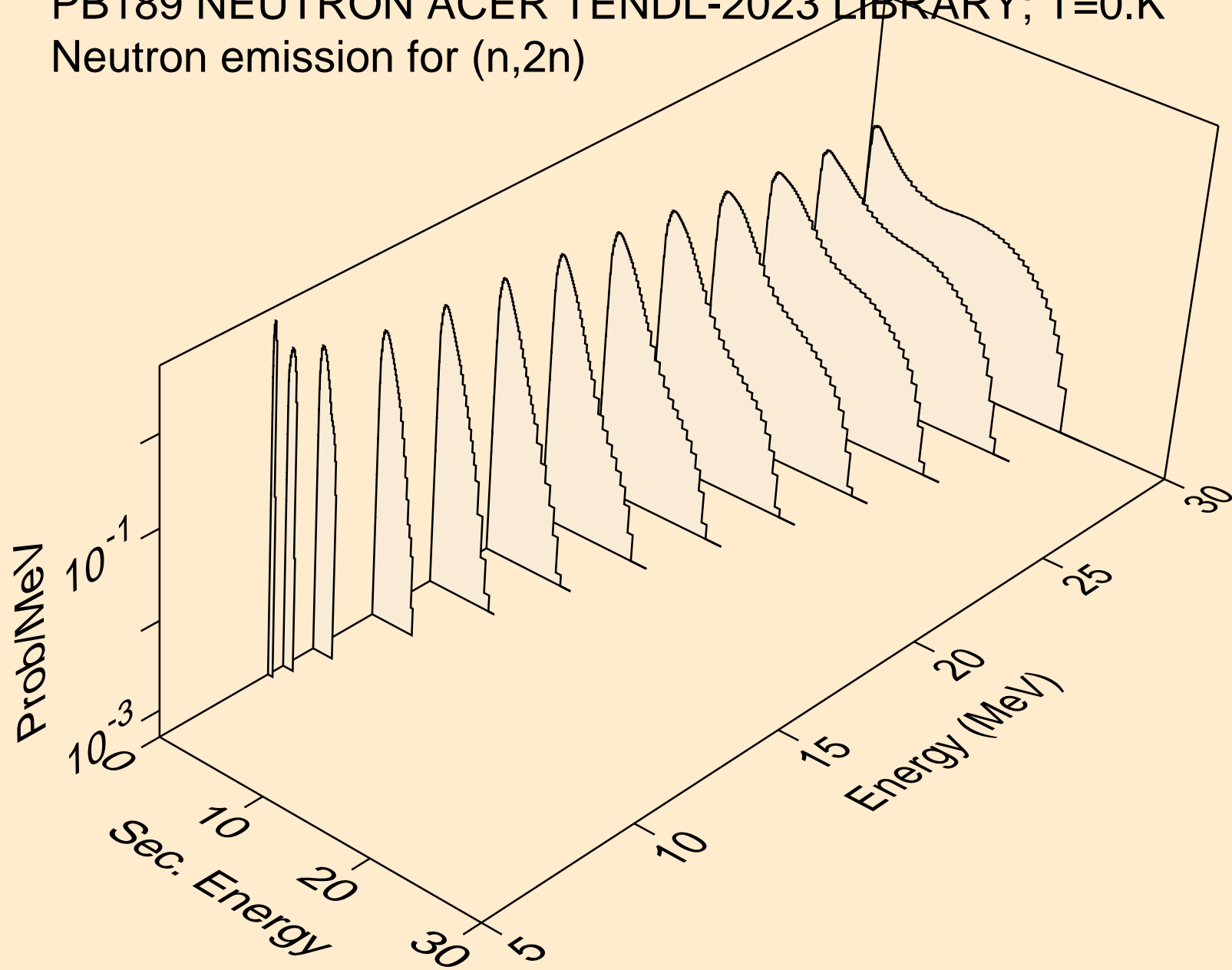




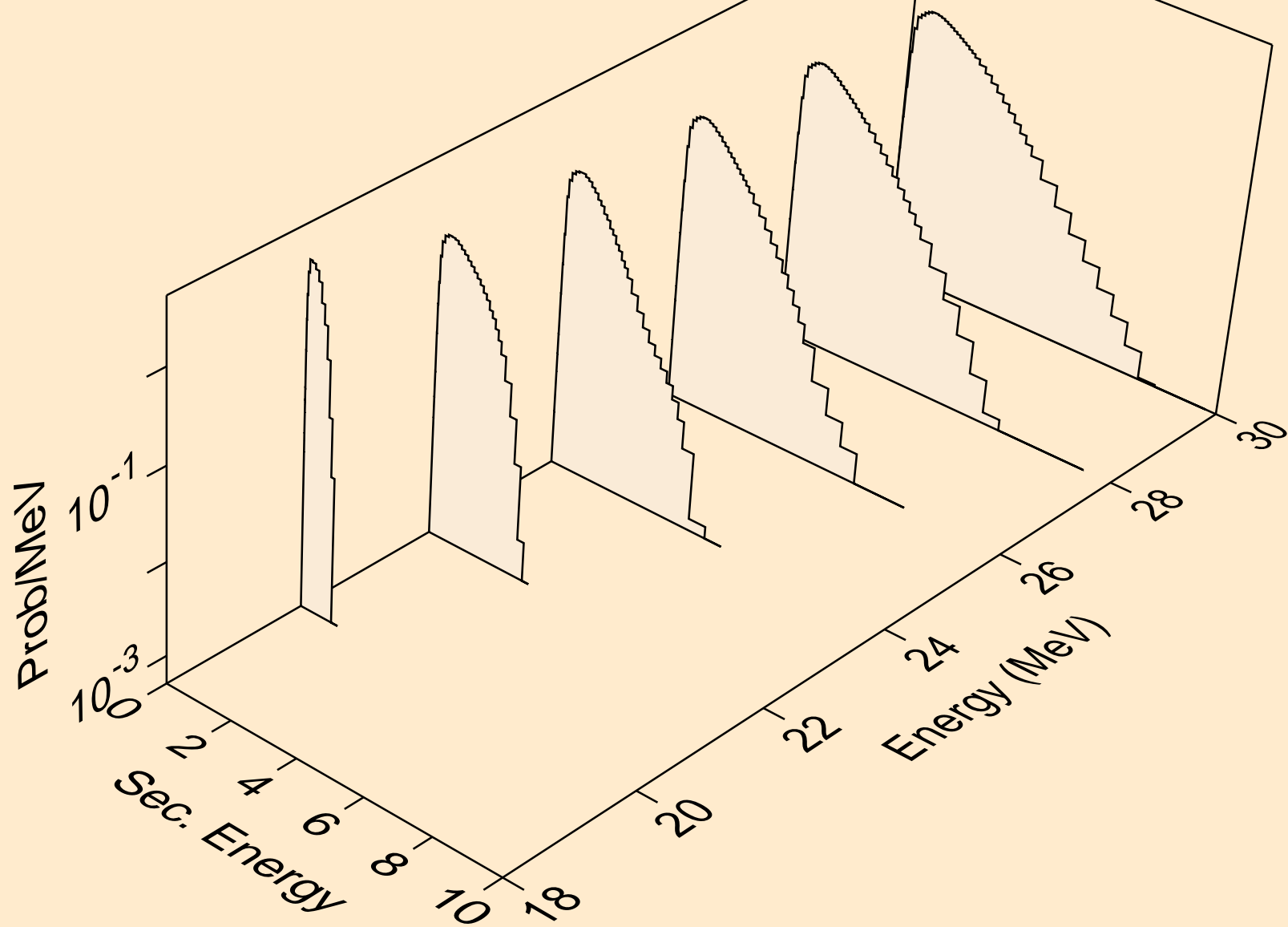
PB189 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,2nd)



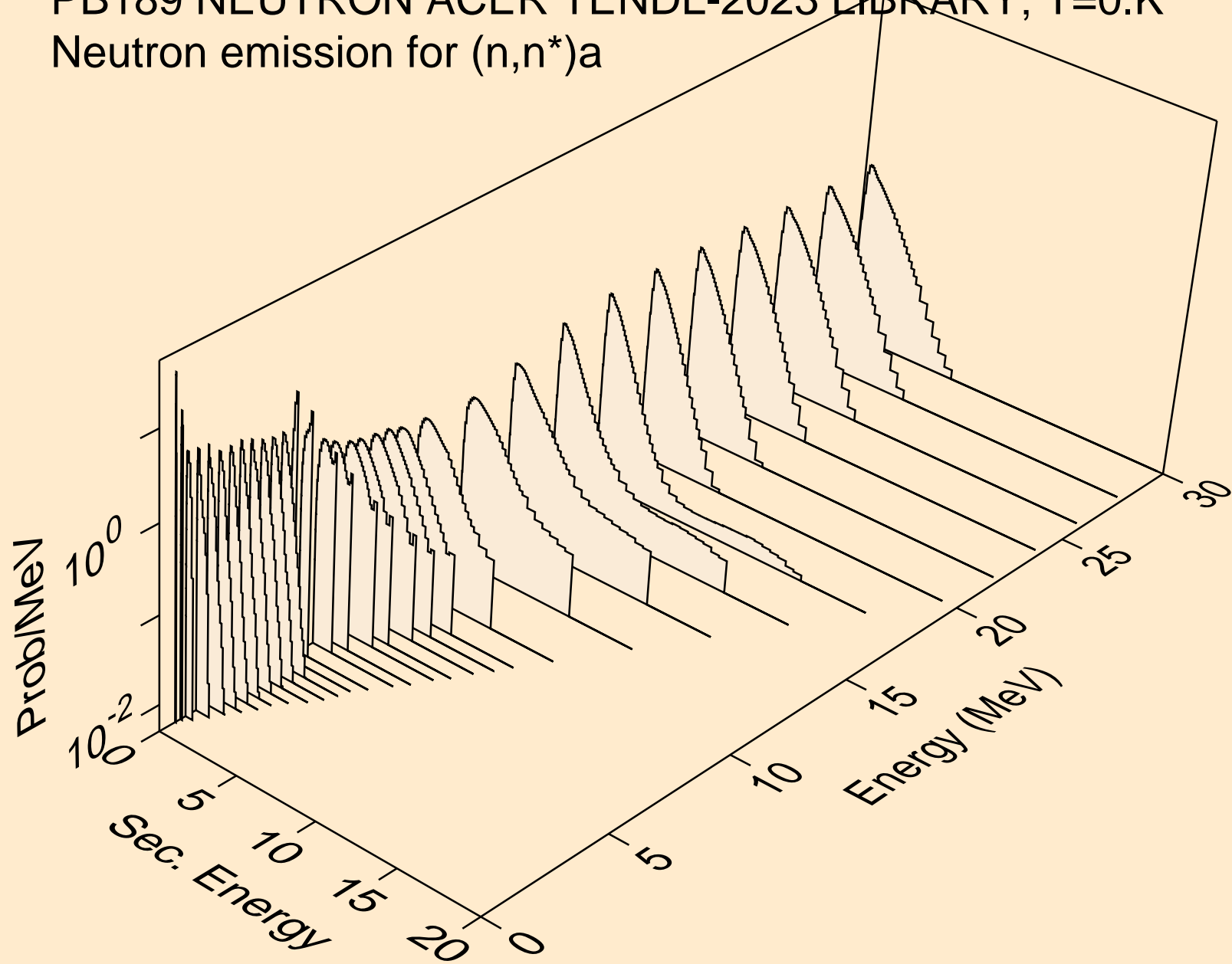
PB189 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,2n)



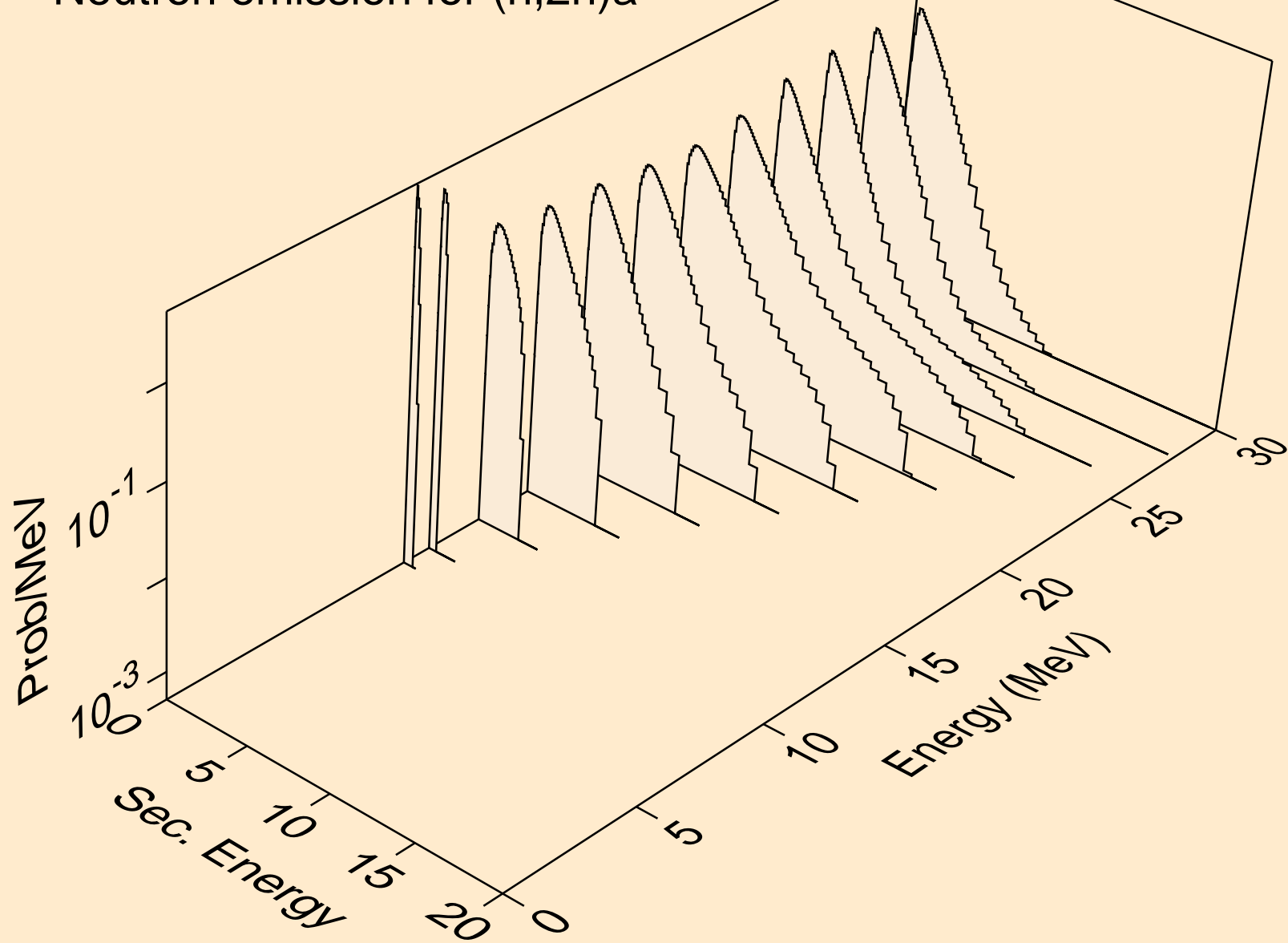
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Neutron emission for (n,3n)



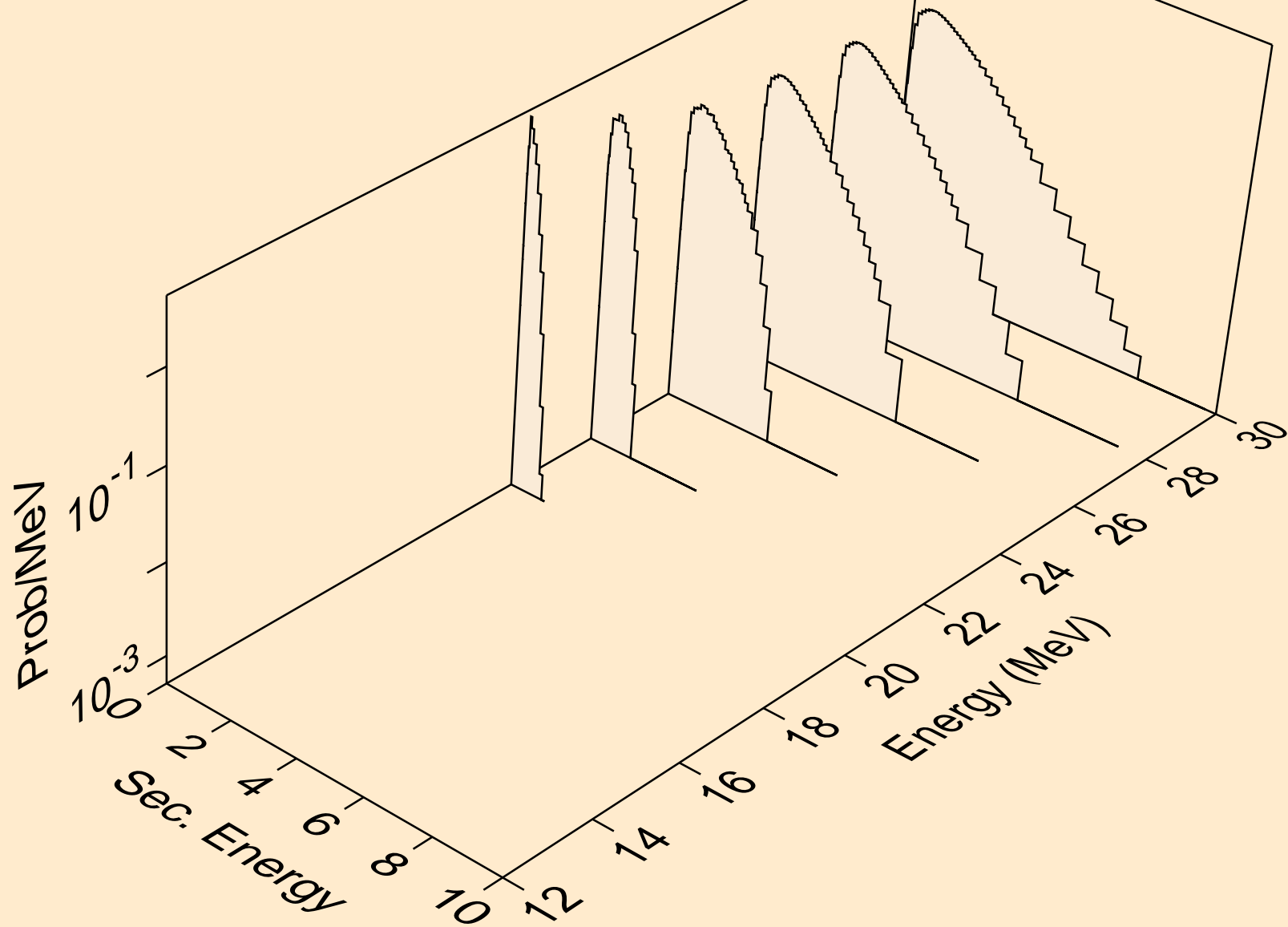
PB189 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,n\*)a



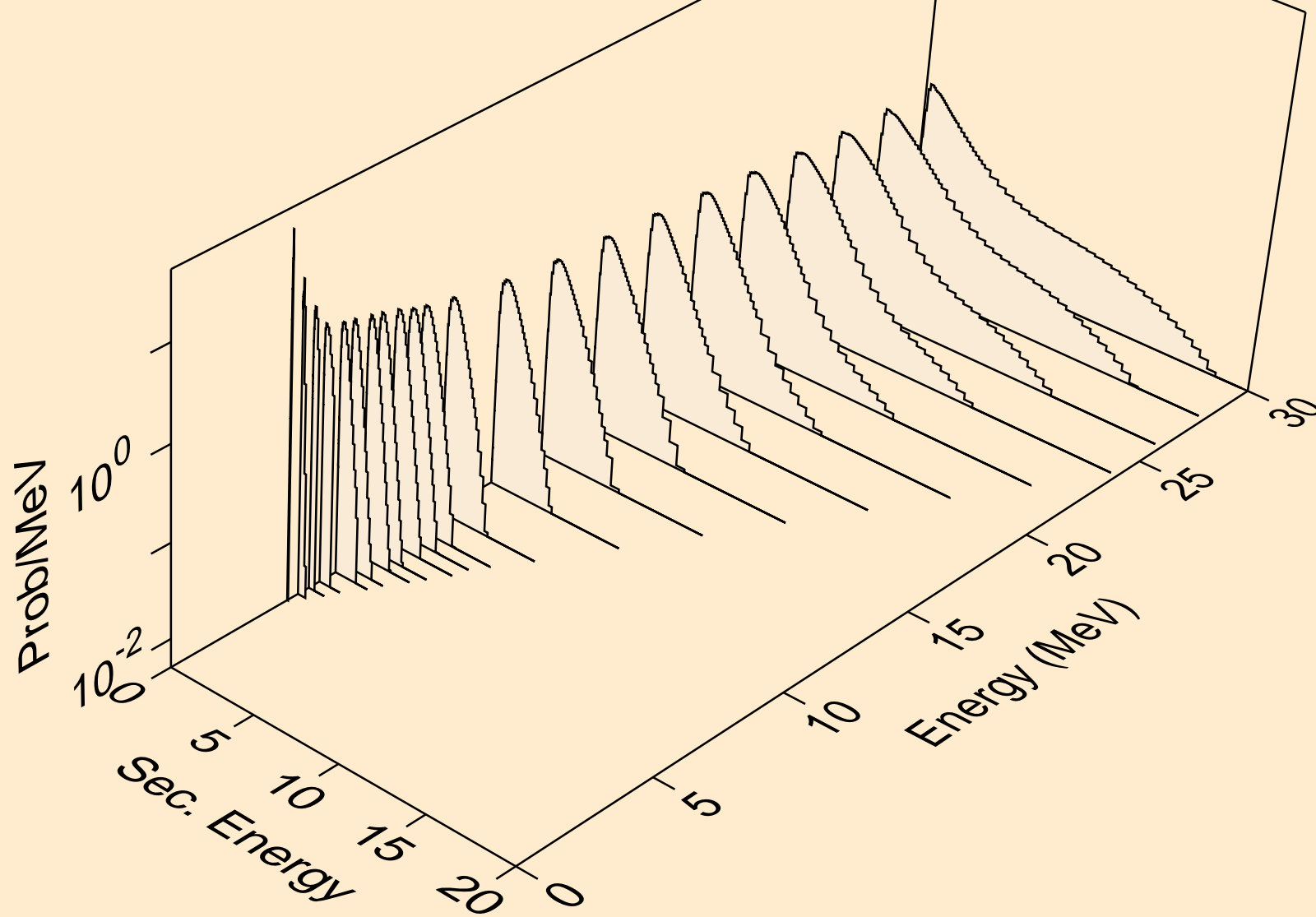
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Neutron emission for (n,2n)a



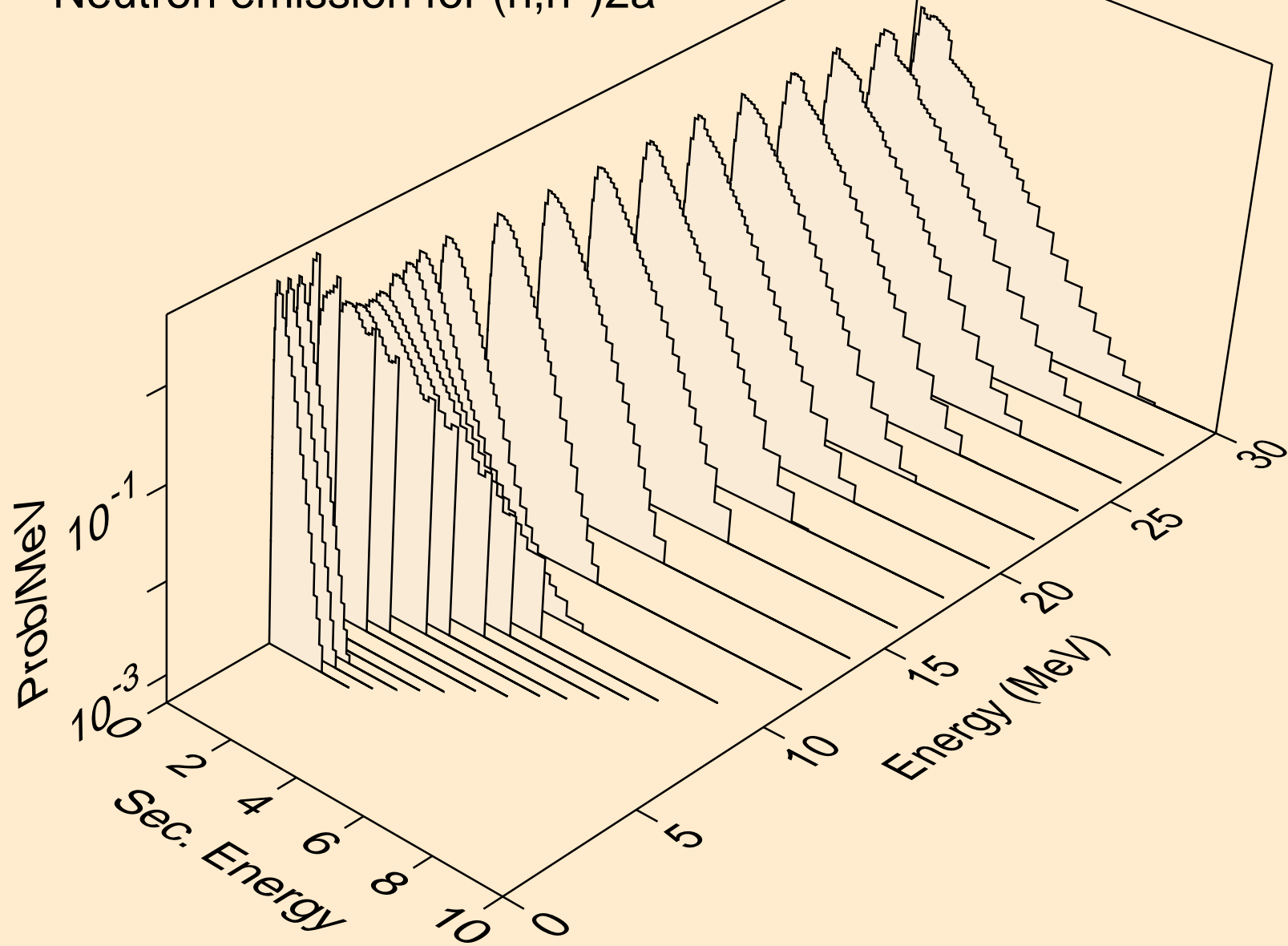
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Neutron emission for (n,3n)a



PB189 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,n\*)p

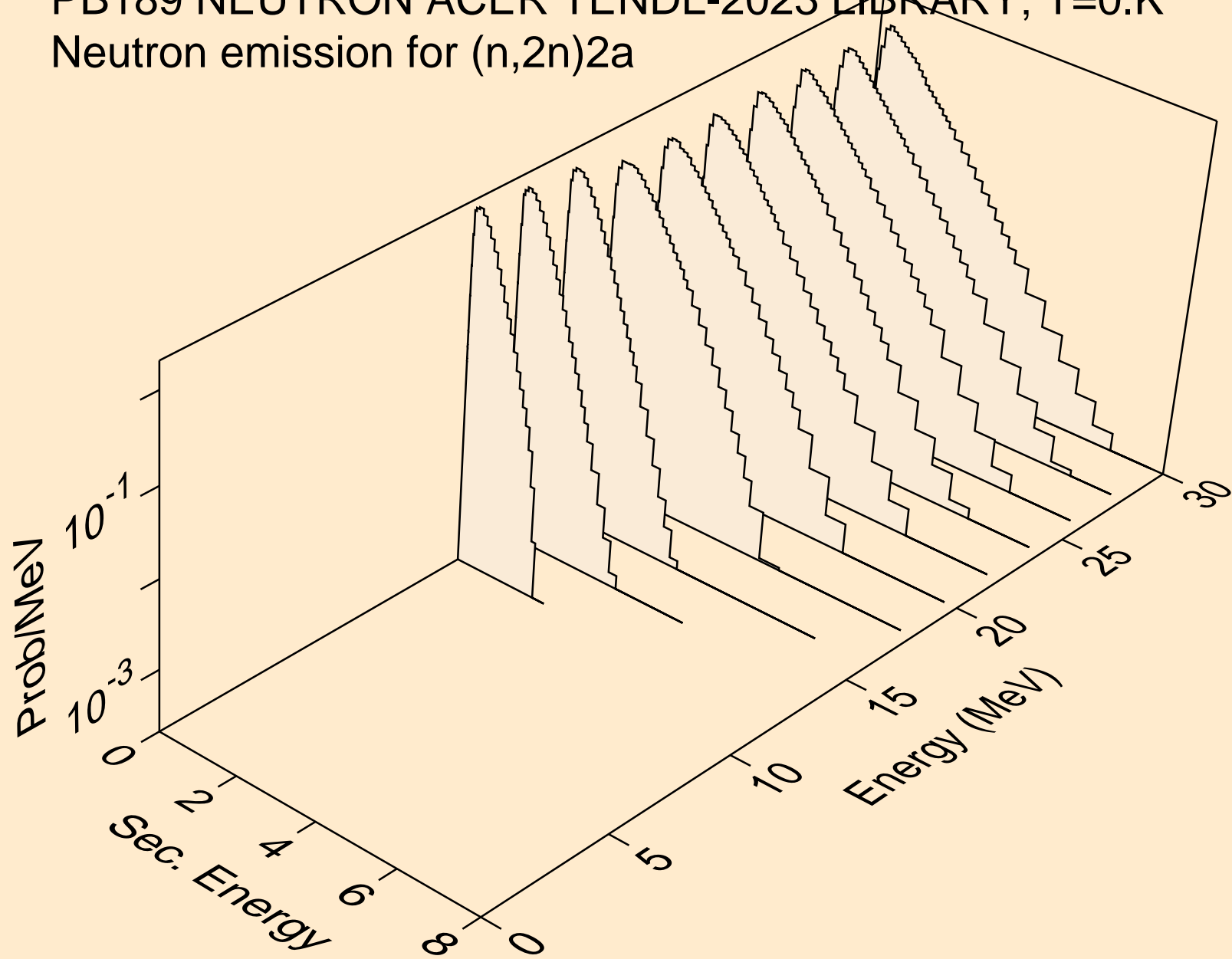


PB189 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,n\*)2a

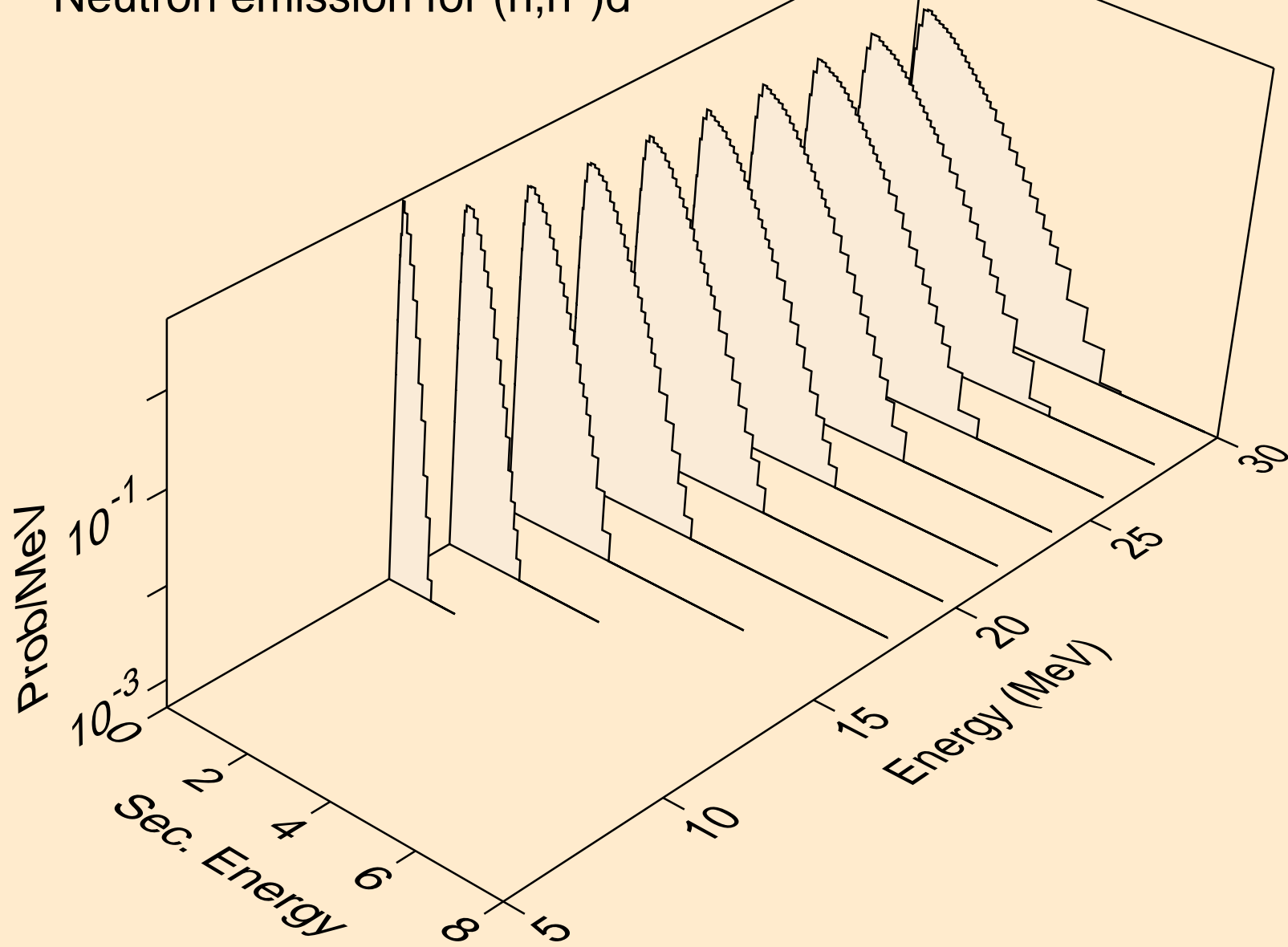




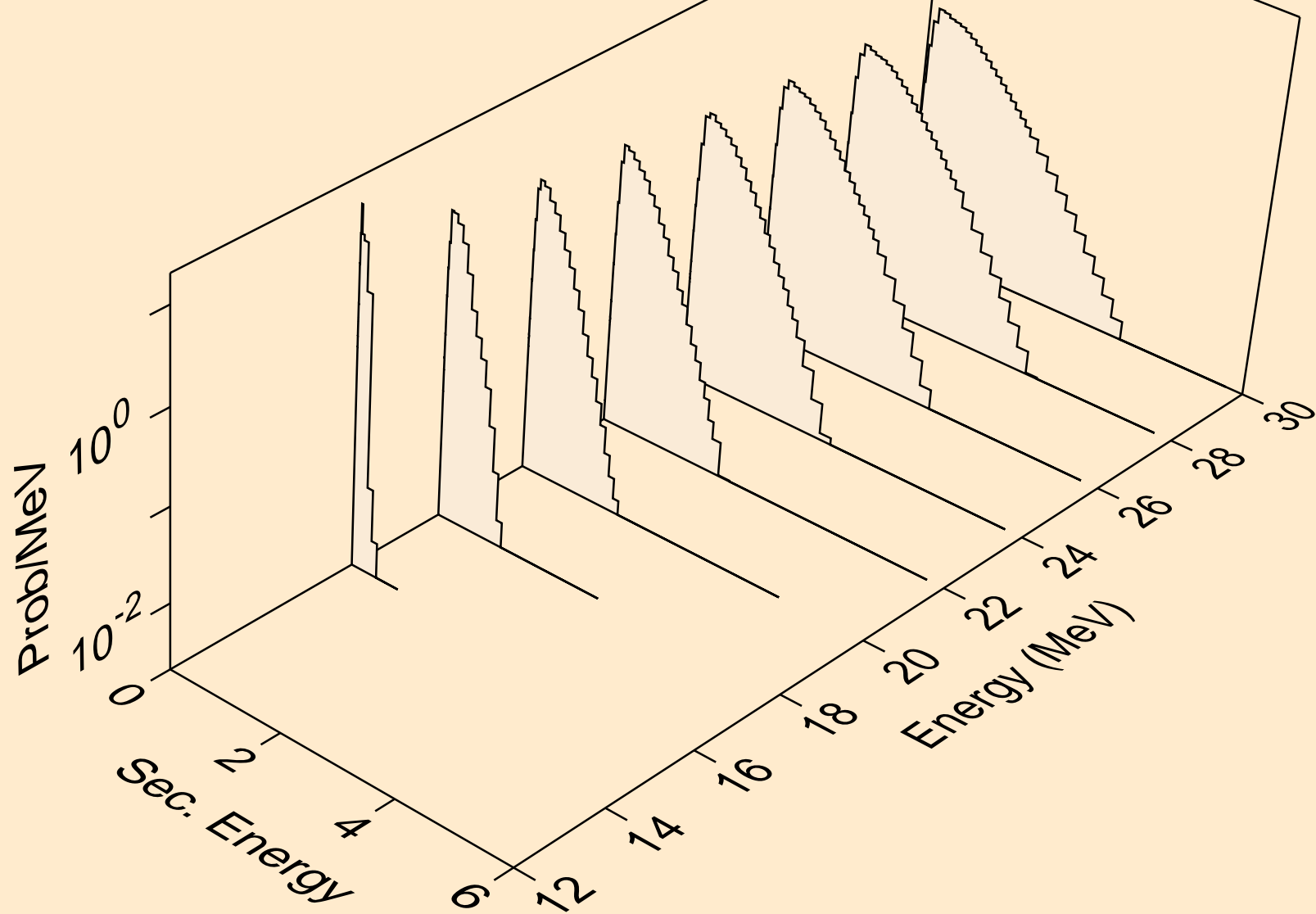
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Neutron emission for (n,2n)2a



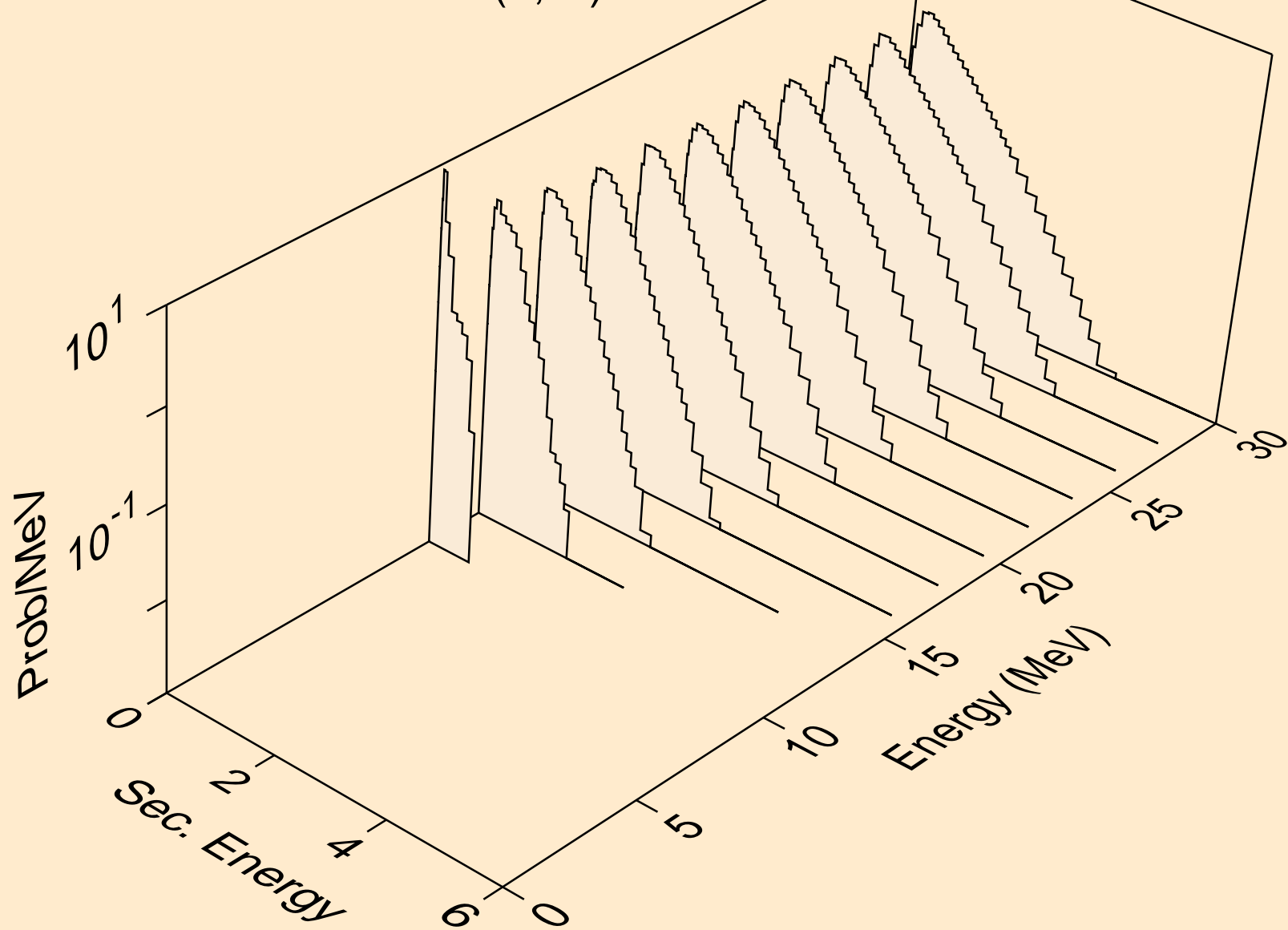
PB189 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,n\*)d



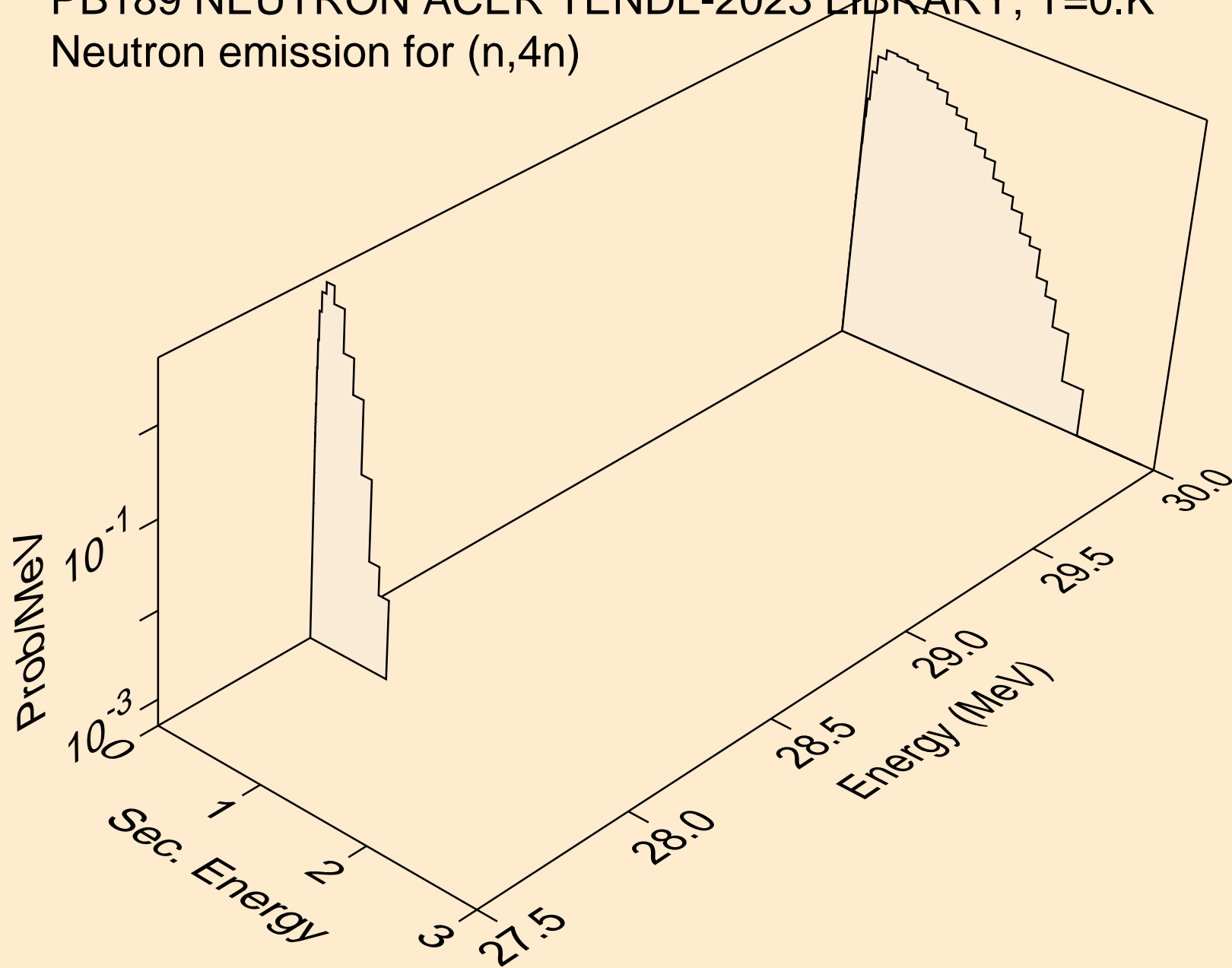
PB189 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,n\*)t



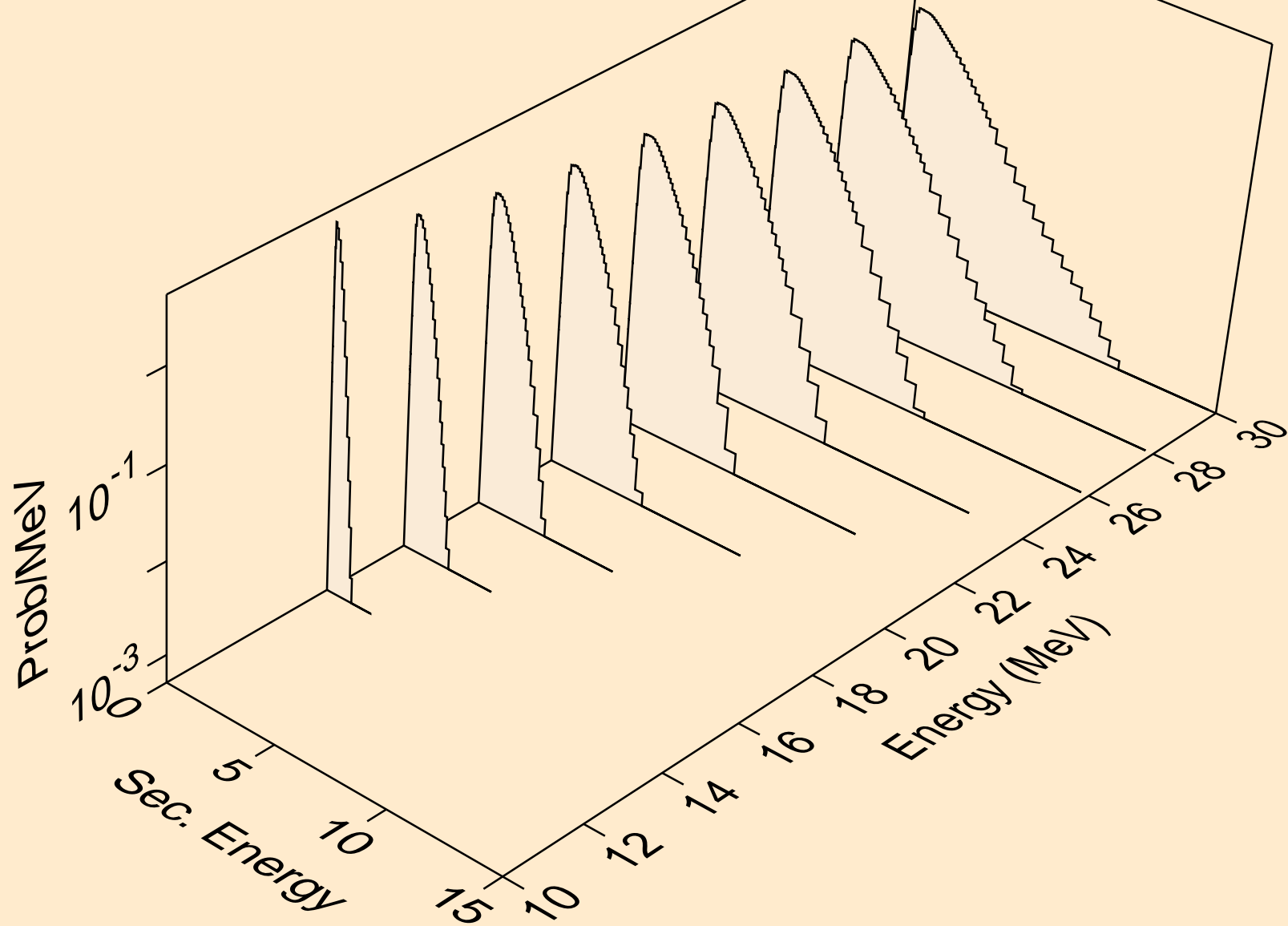
PB189 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,n\*)he3



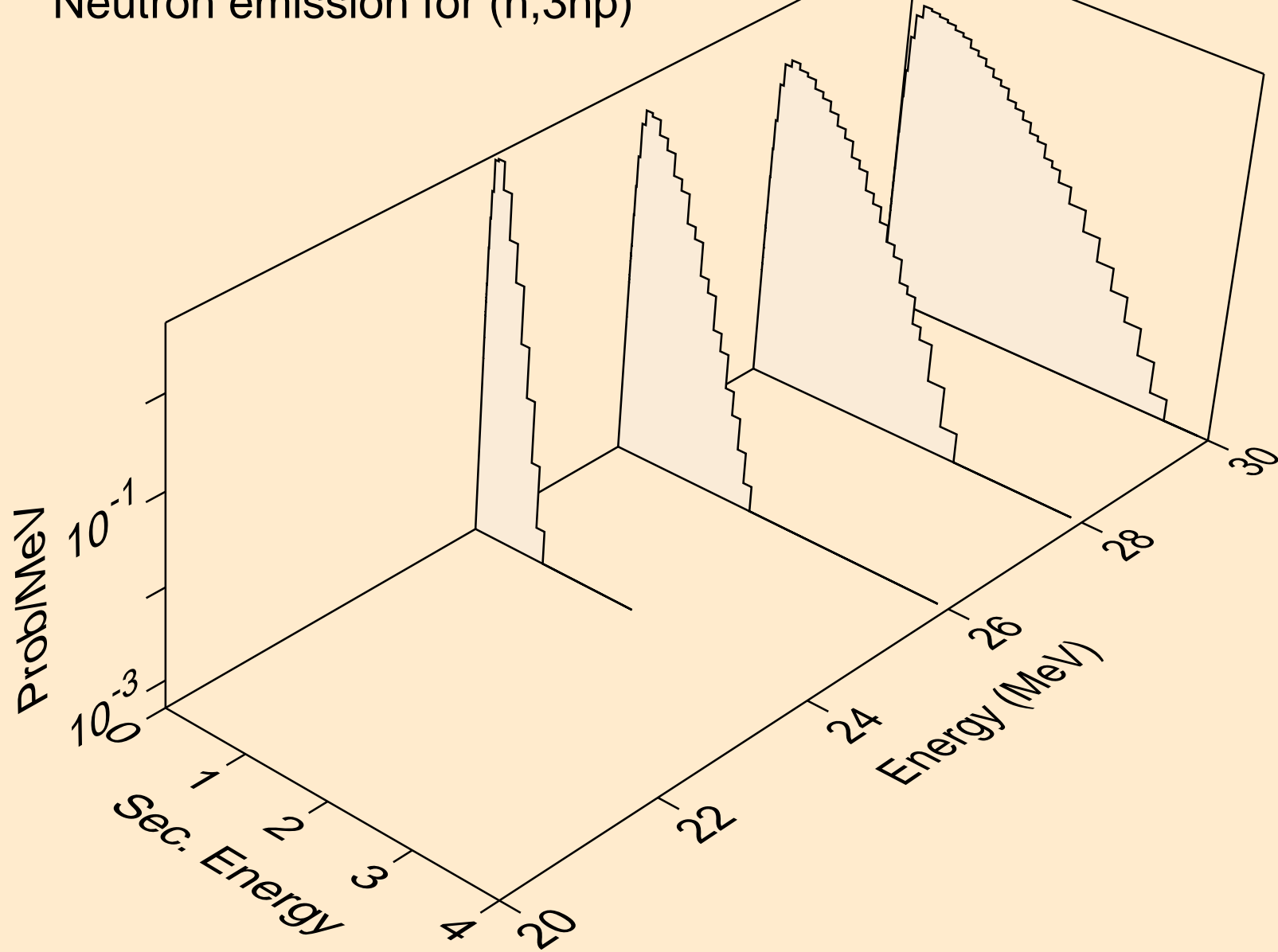
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Neutron emission for (n,4n)



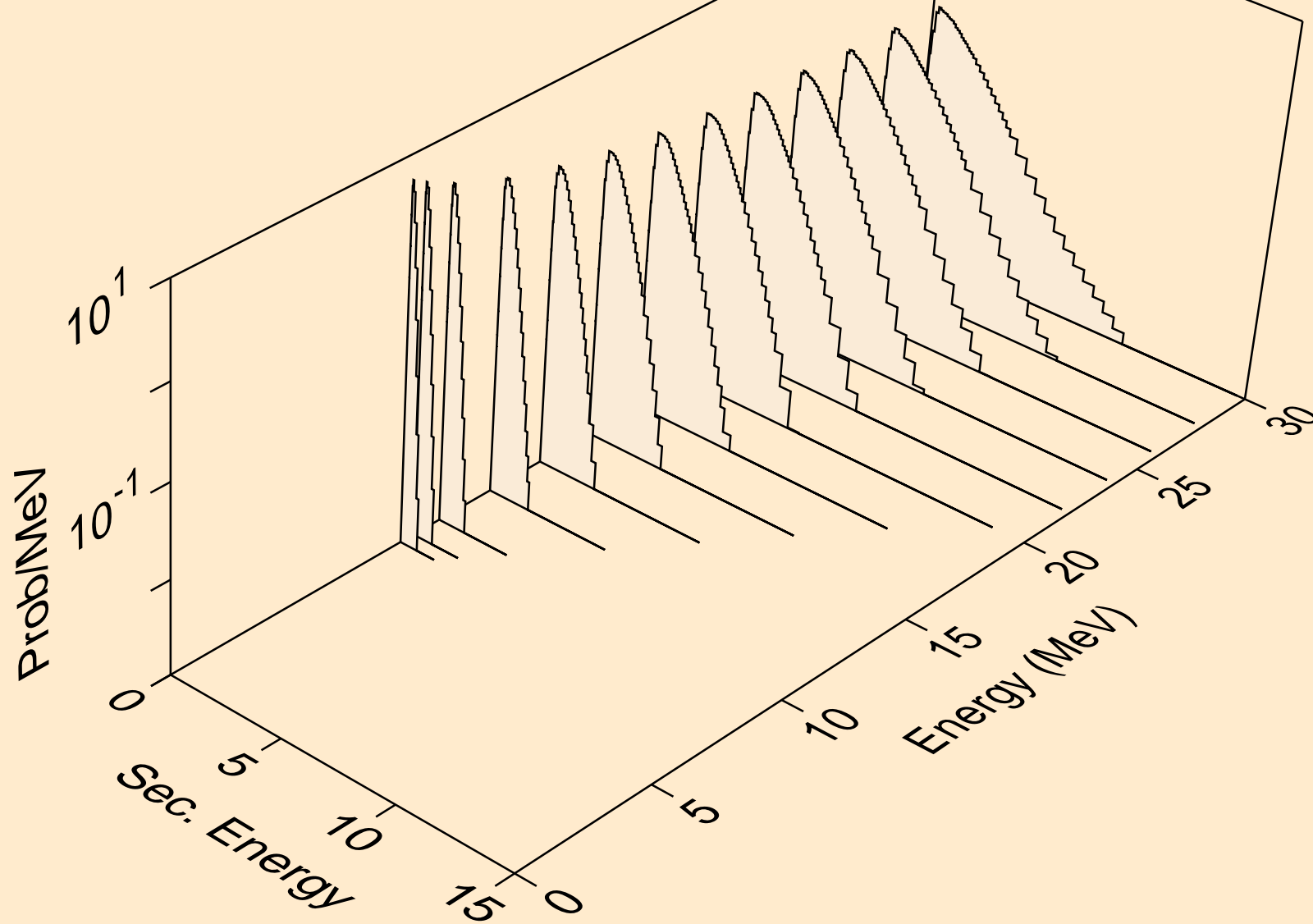
PB189 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,2np)



PB189 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,3np)

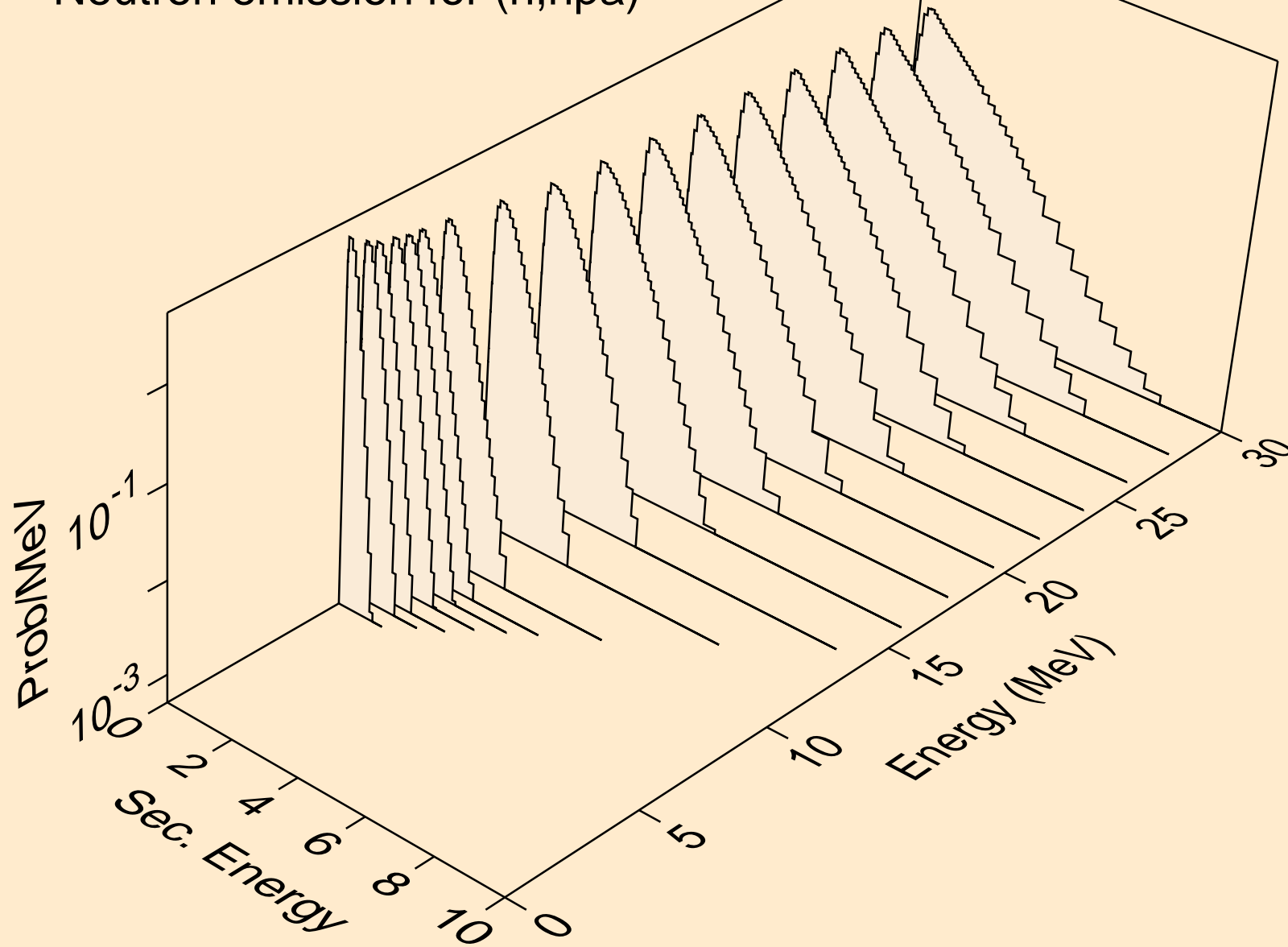


PB189 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,n2p)

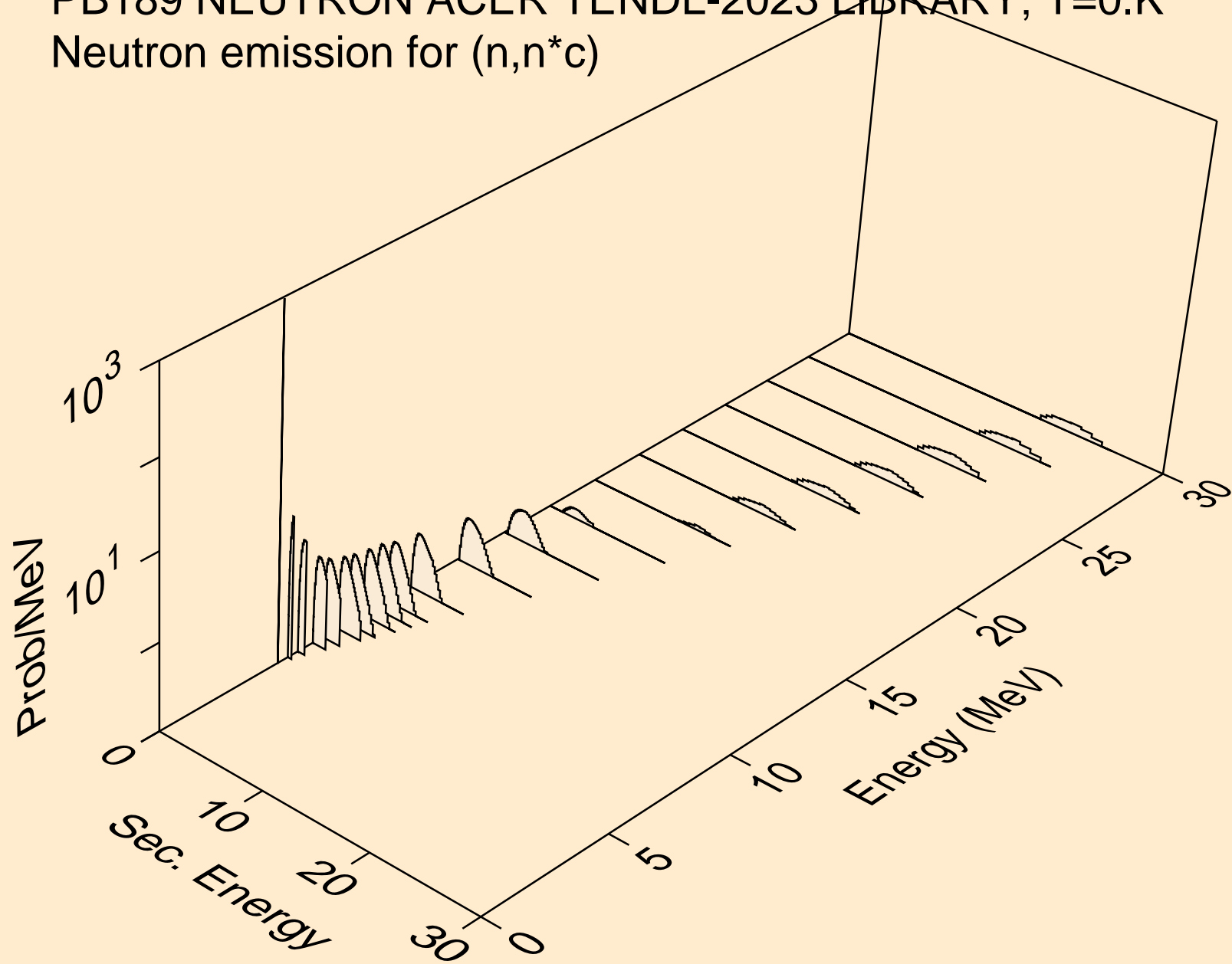




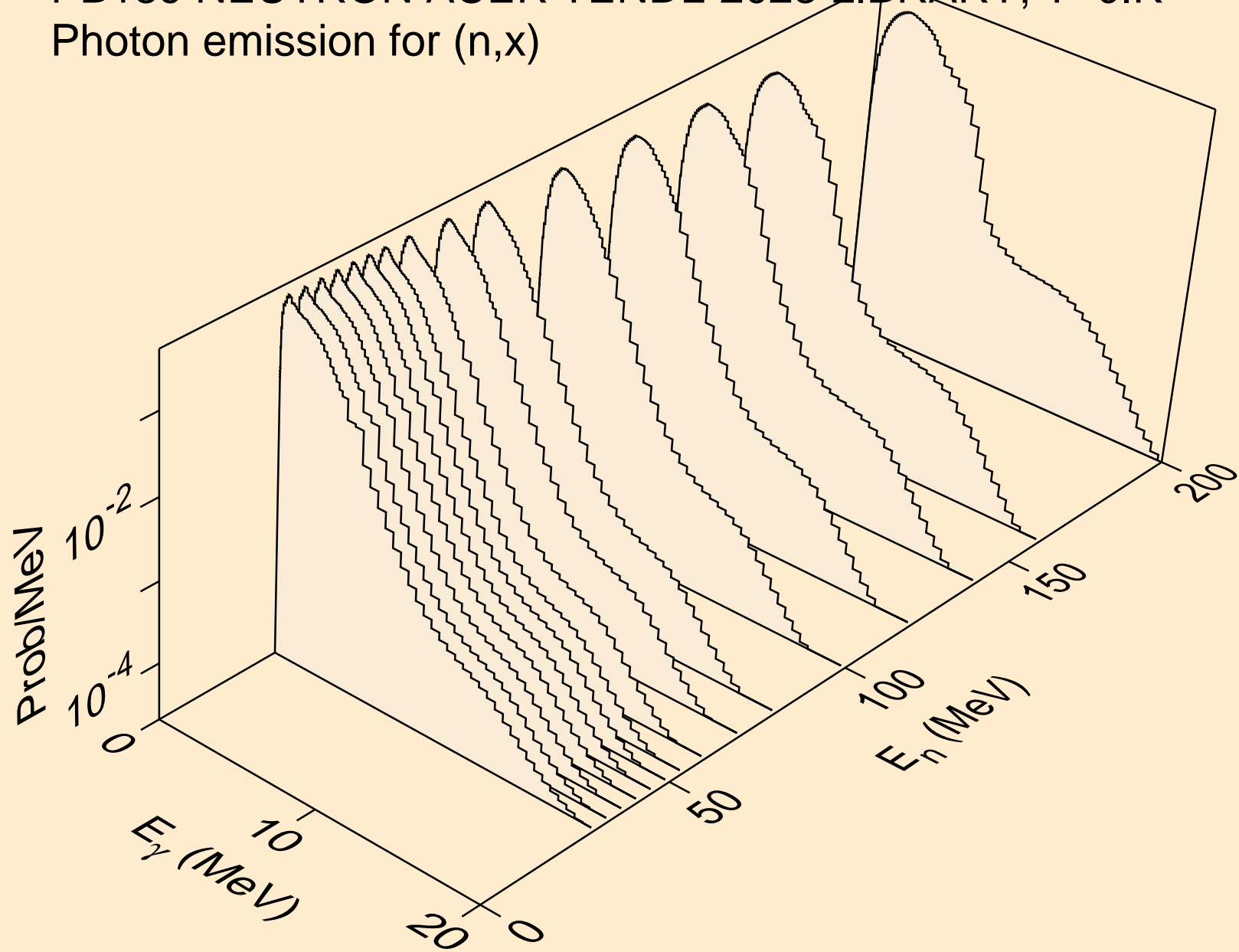
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Neutron emission for (n,npa)



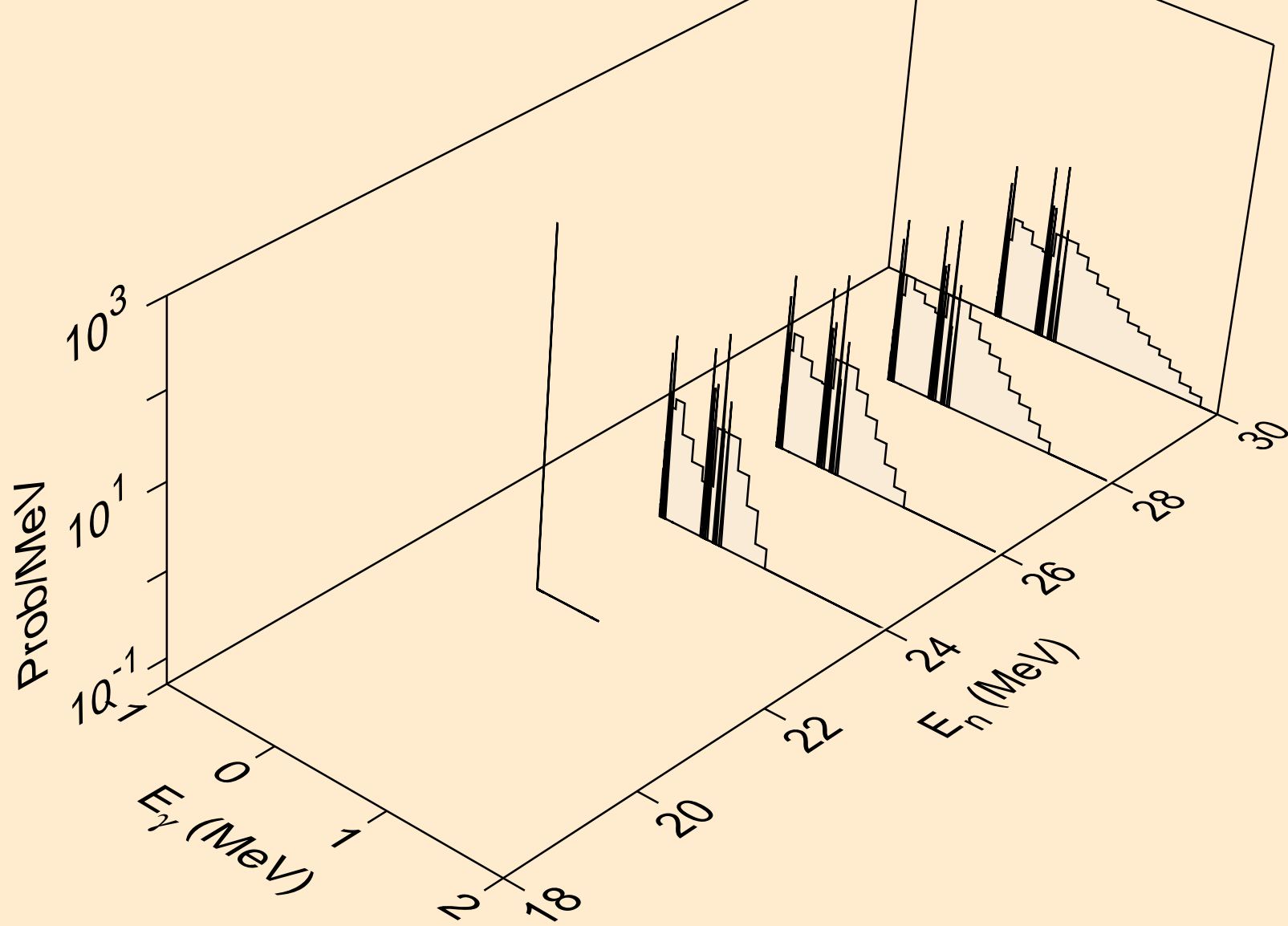
PB189 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,n\*c)



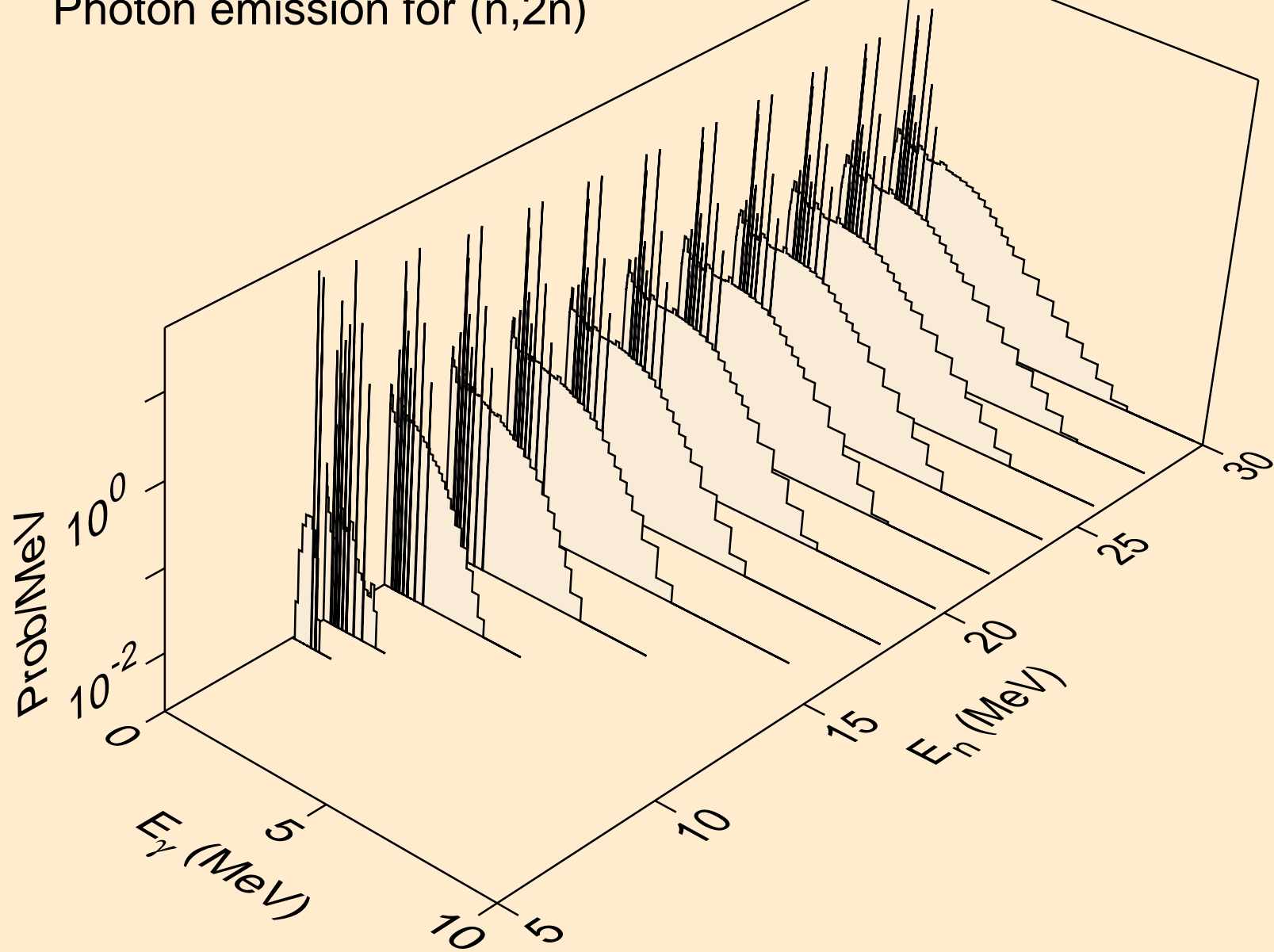
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Photon emission for (n,x)



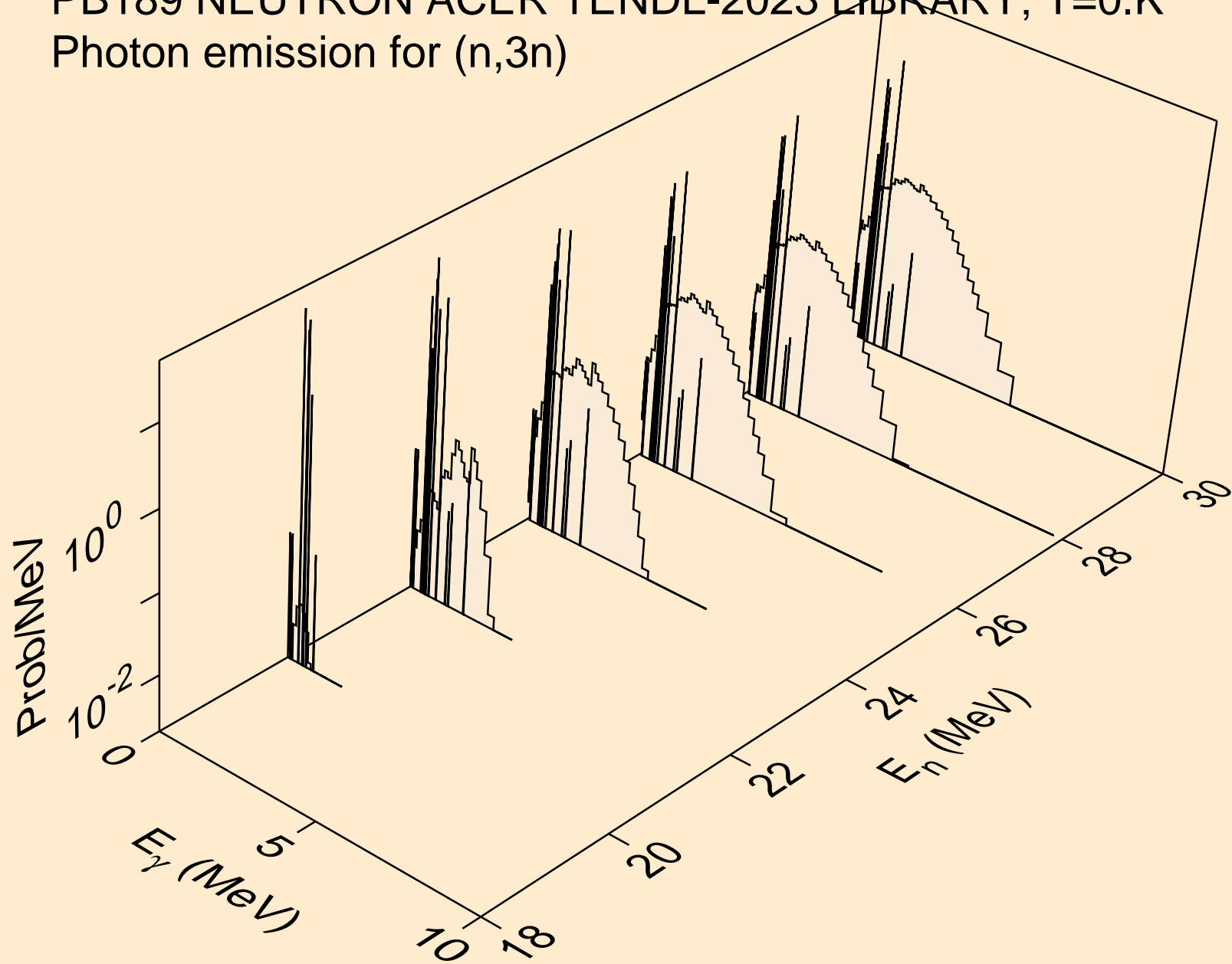
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Photon emission for (n,2nd)



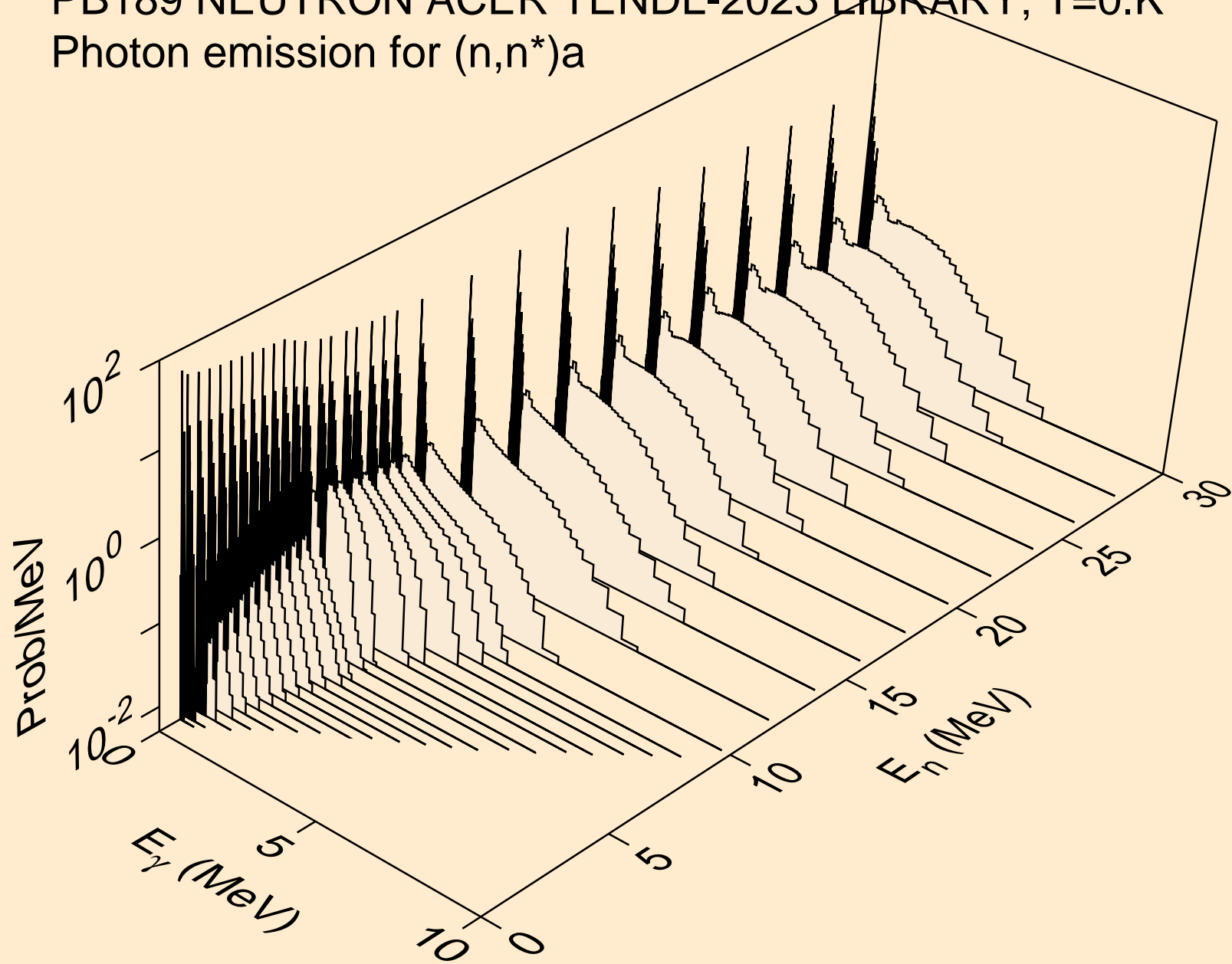
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Photon emission for (n,2n)



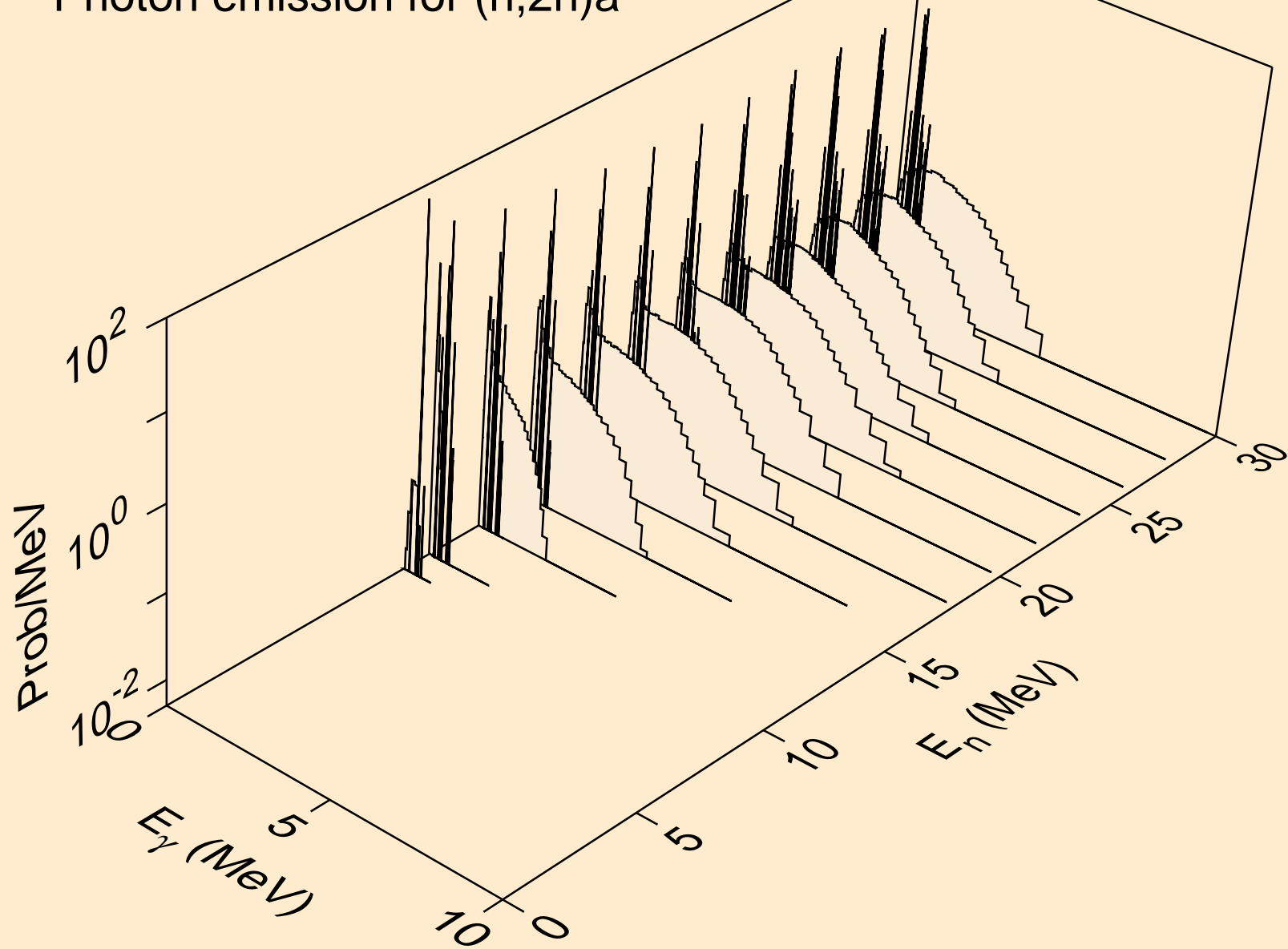
PB189 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,3n)



PB189 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)a

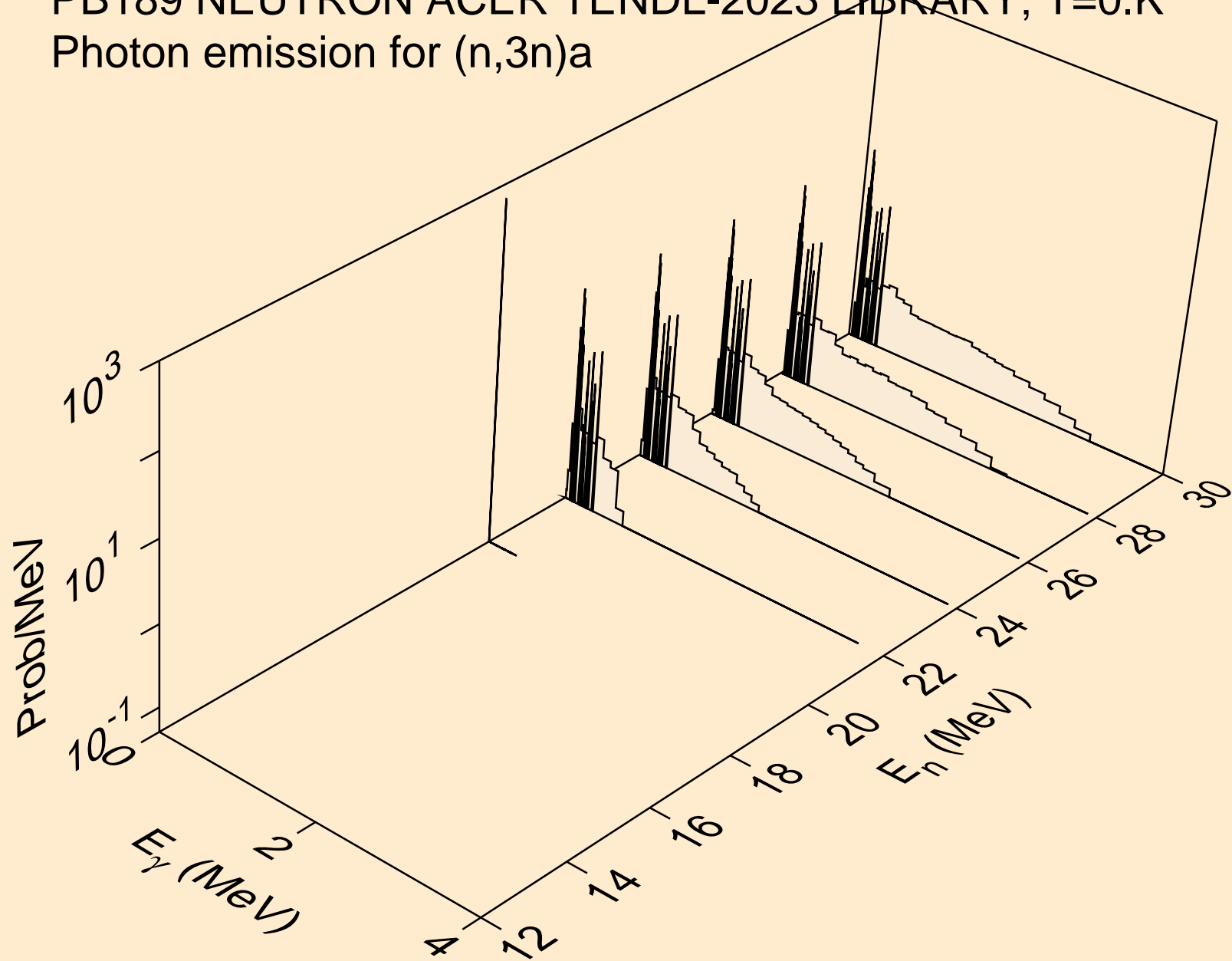


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Photon emission for (n,2n)a

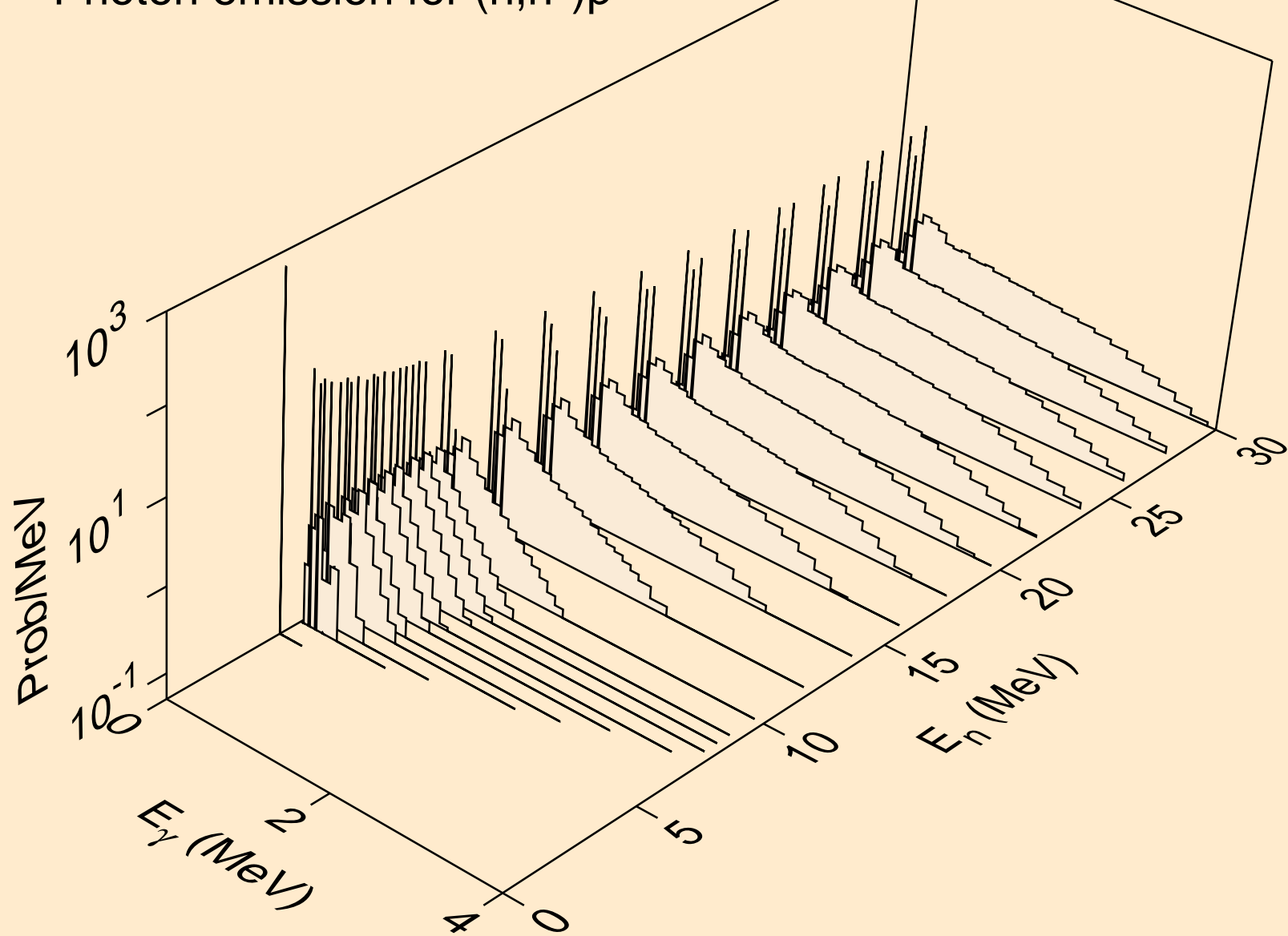




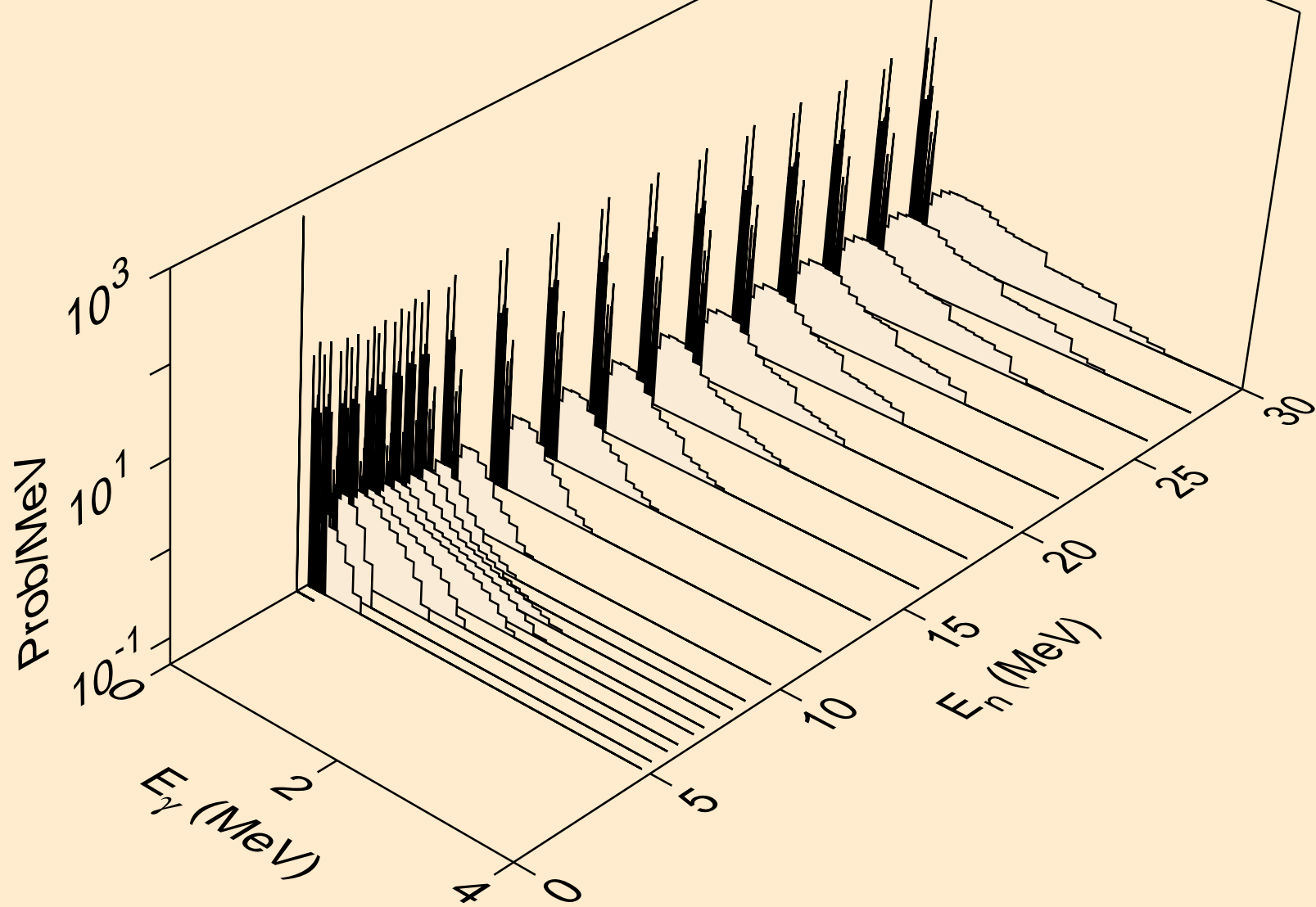
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Photon emission for (n,3n)a



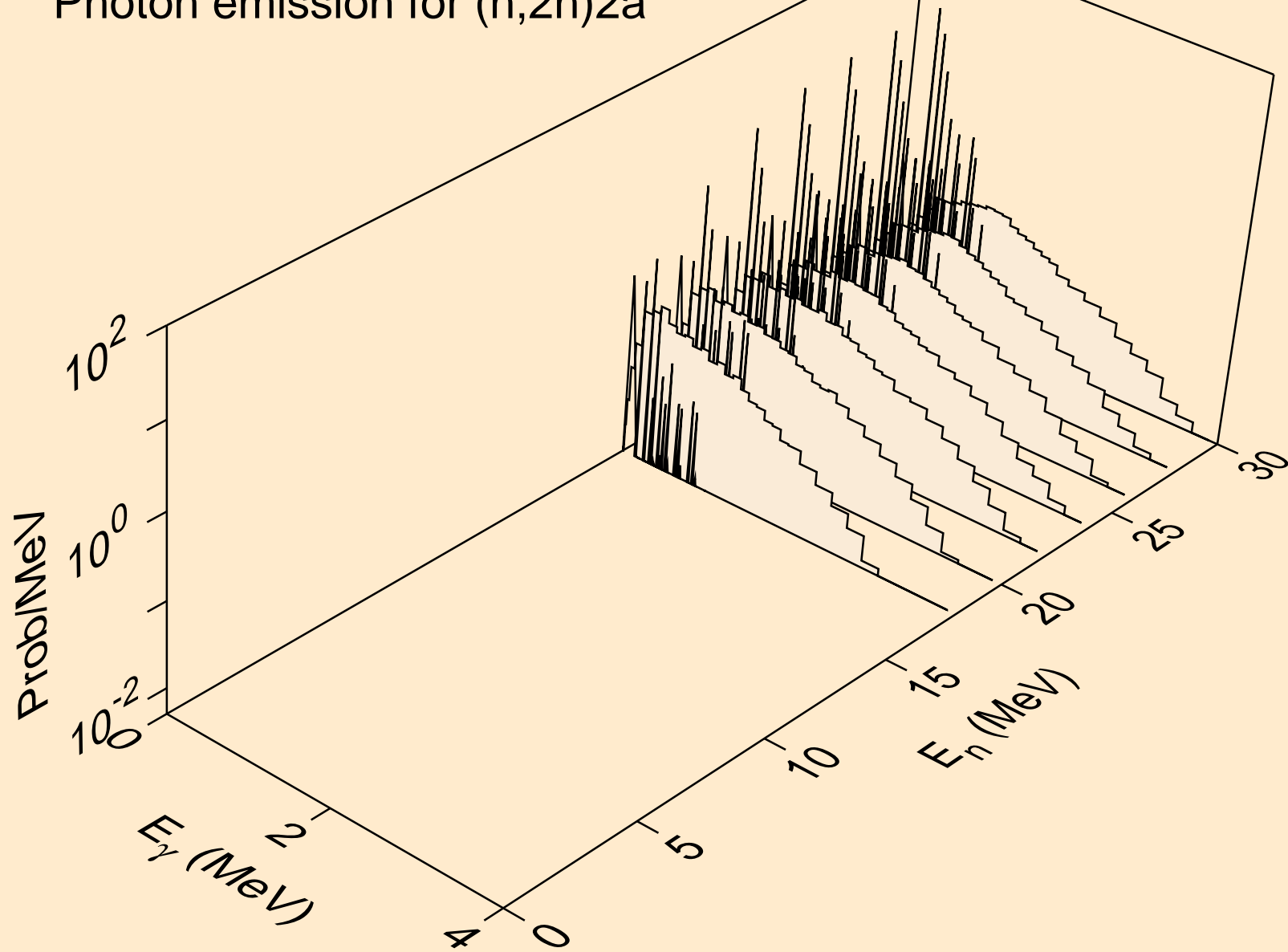
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Photon emission for (n,n\*)p



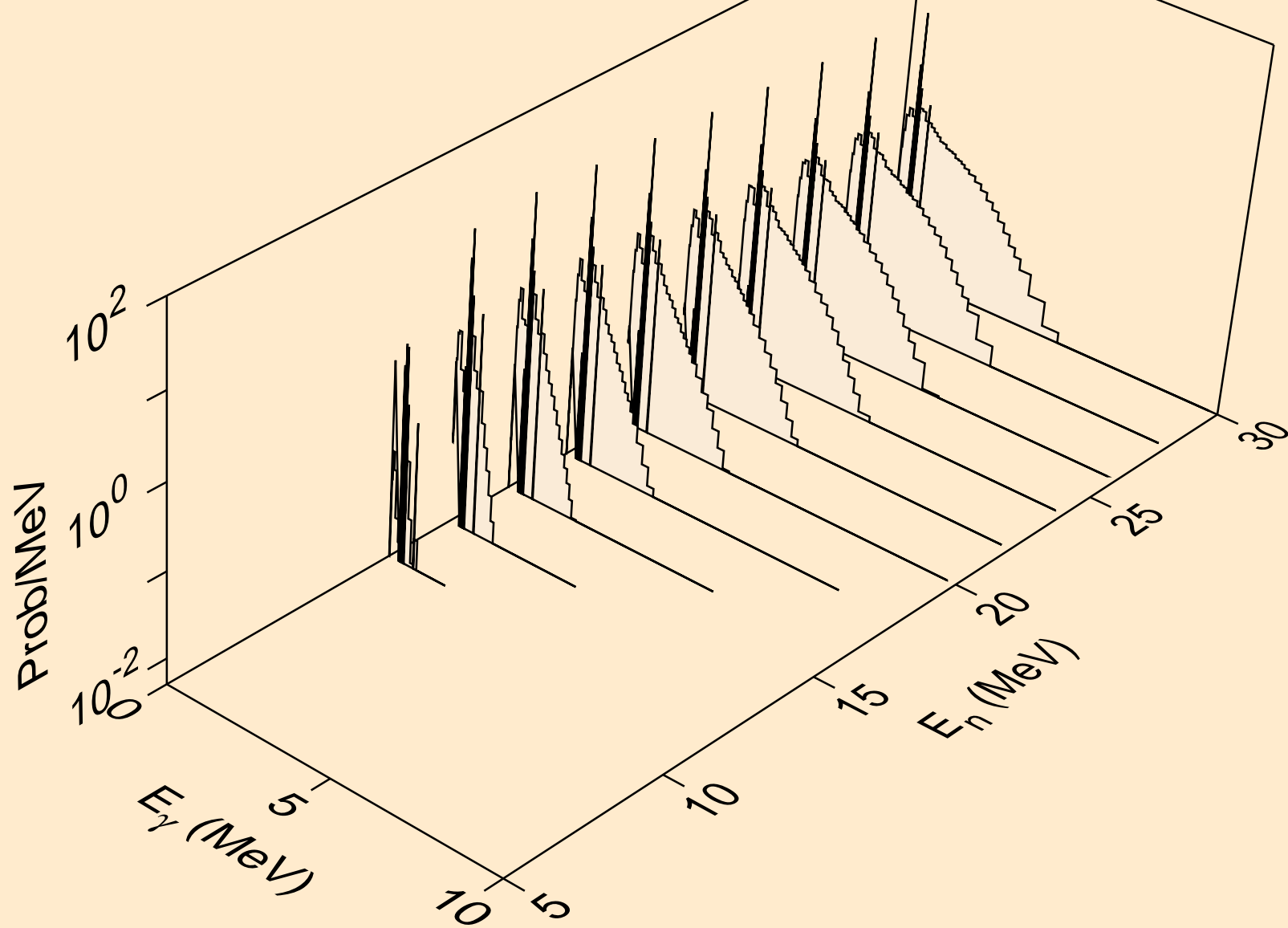
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Photon emission for (n,n\*)2a



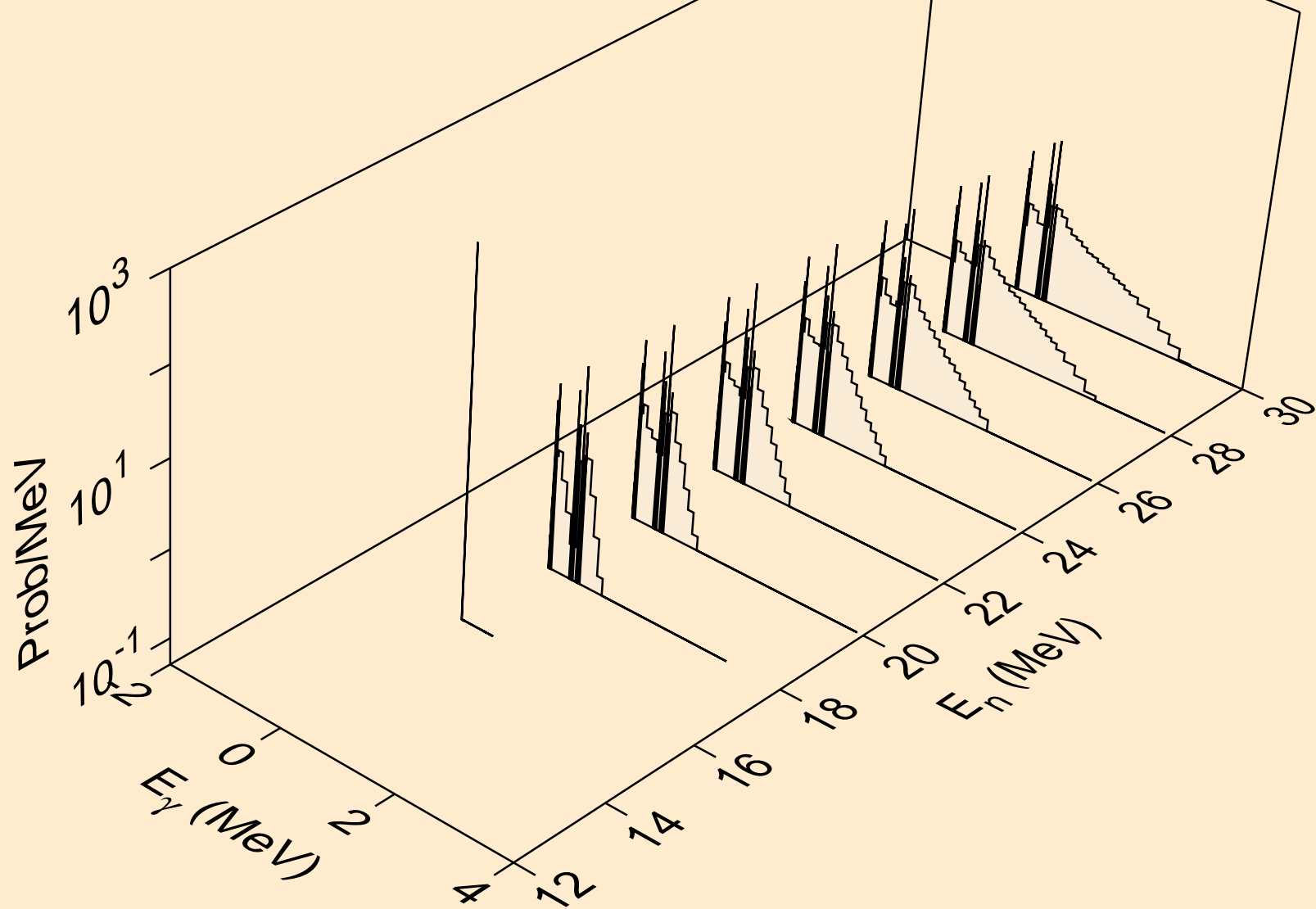
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Photon emission for (n,2n)2a



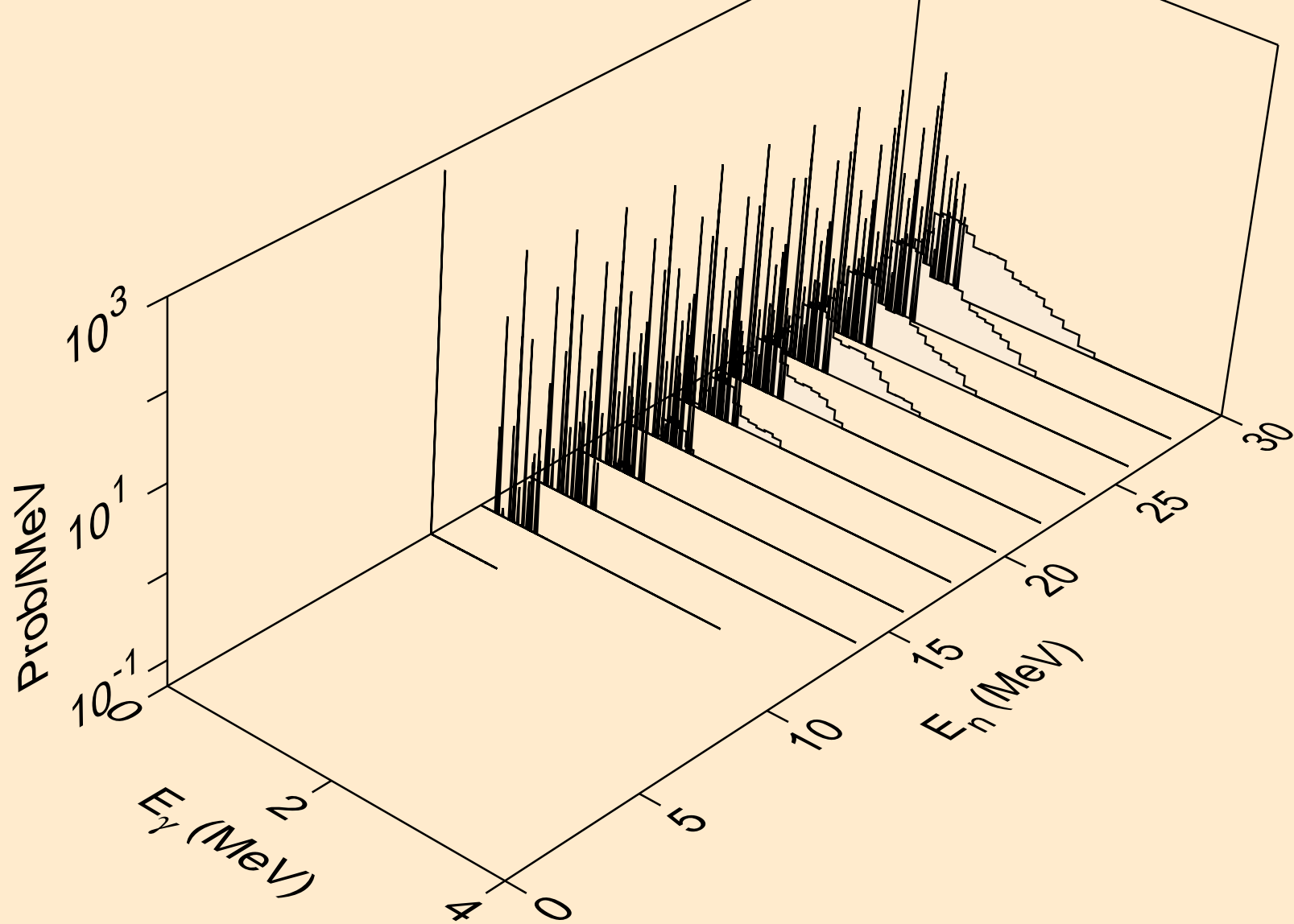
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Photon emission for (n,n\*)d



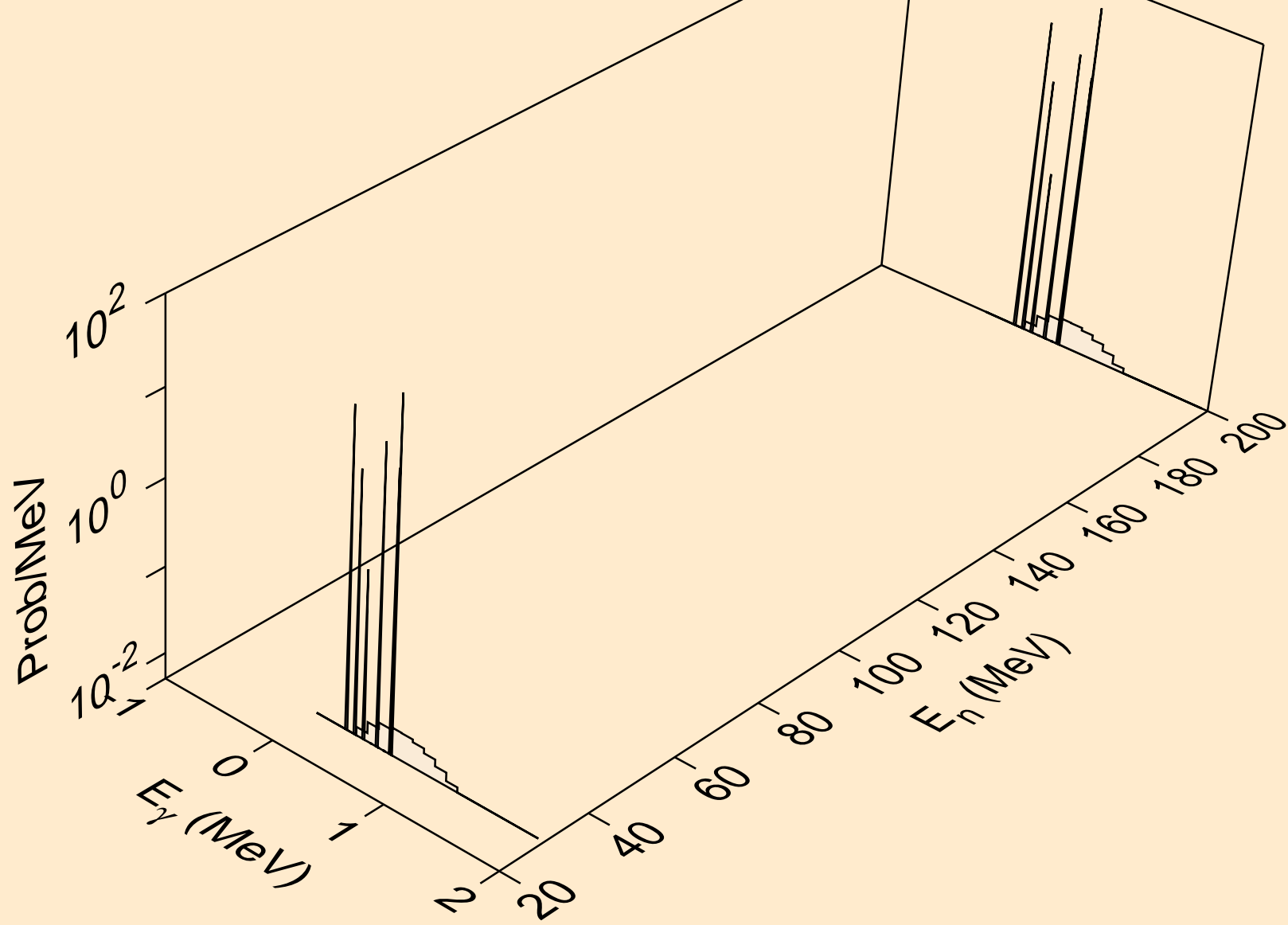
PB189 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)t



PB189 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)he3

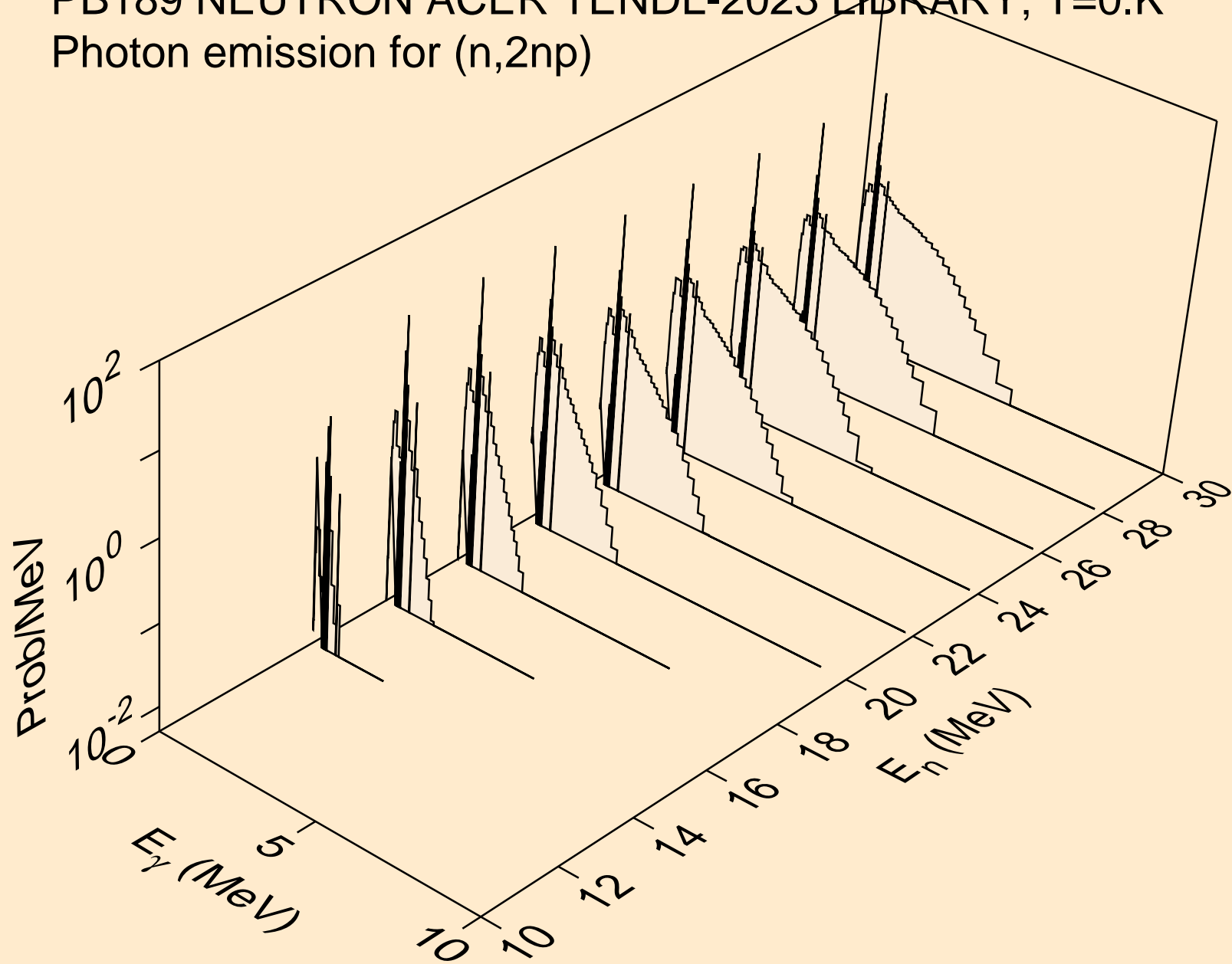


PB189 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,4n)

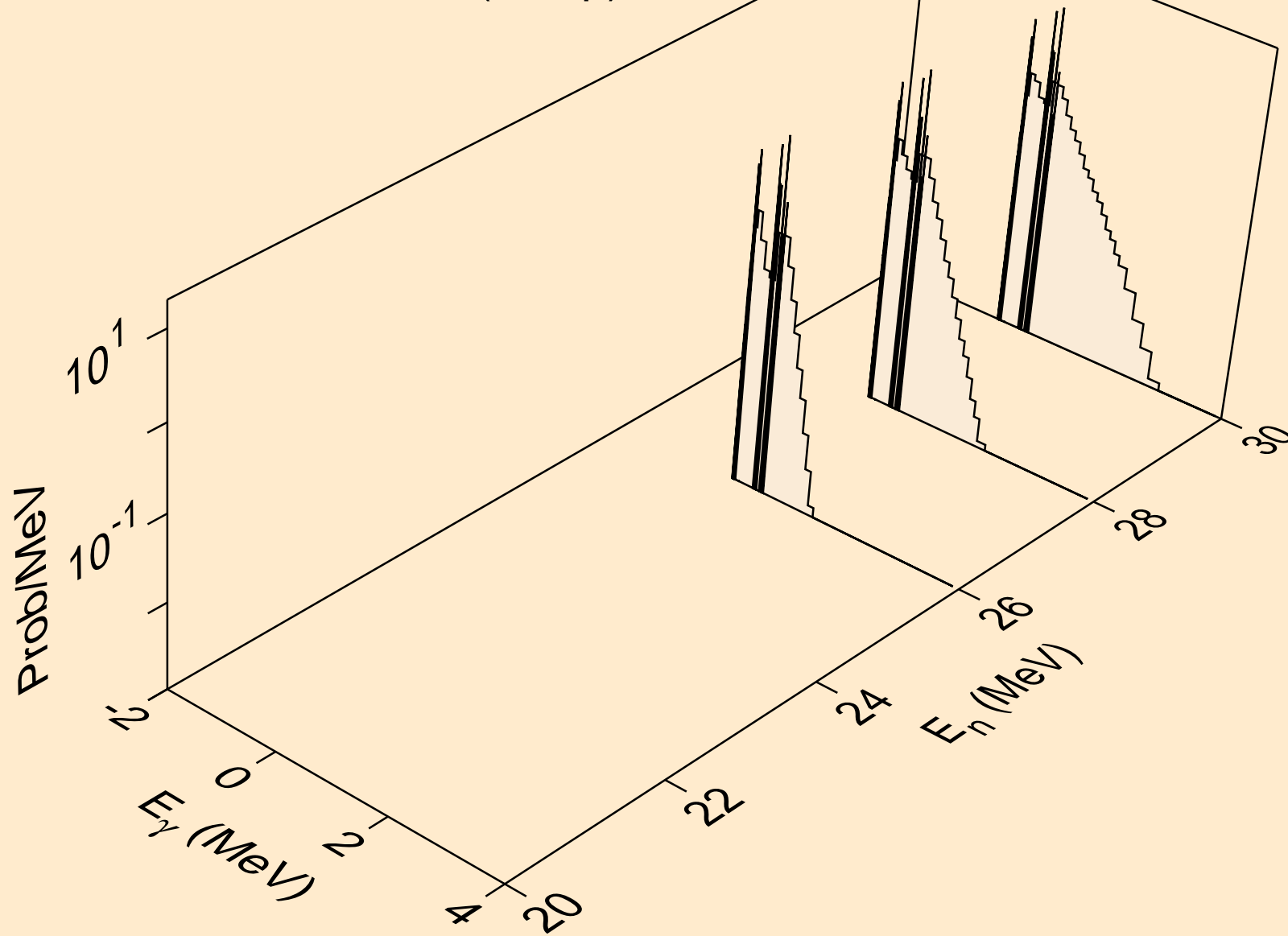




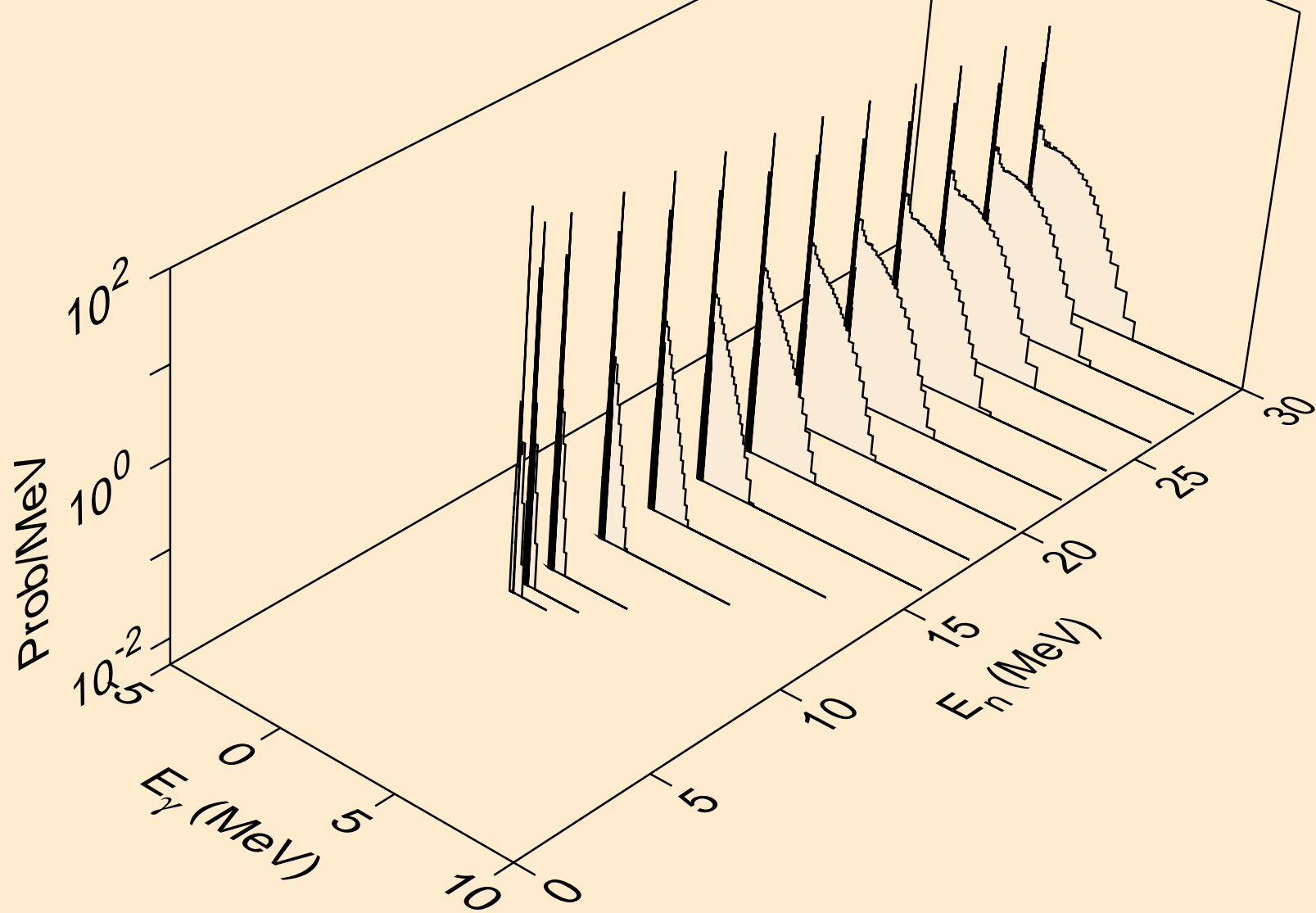
PB189 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2np)



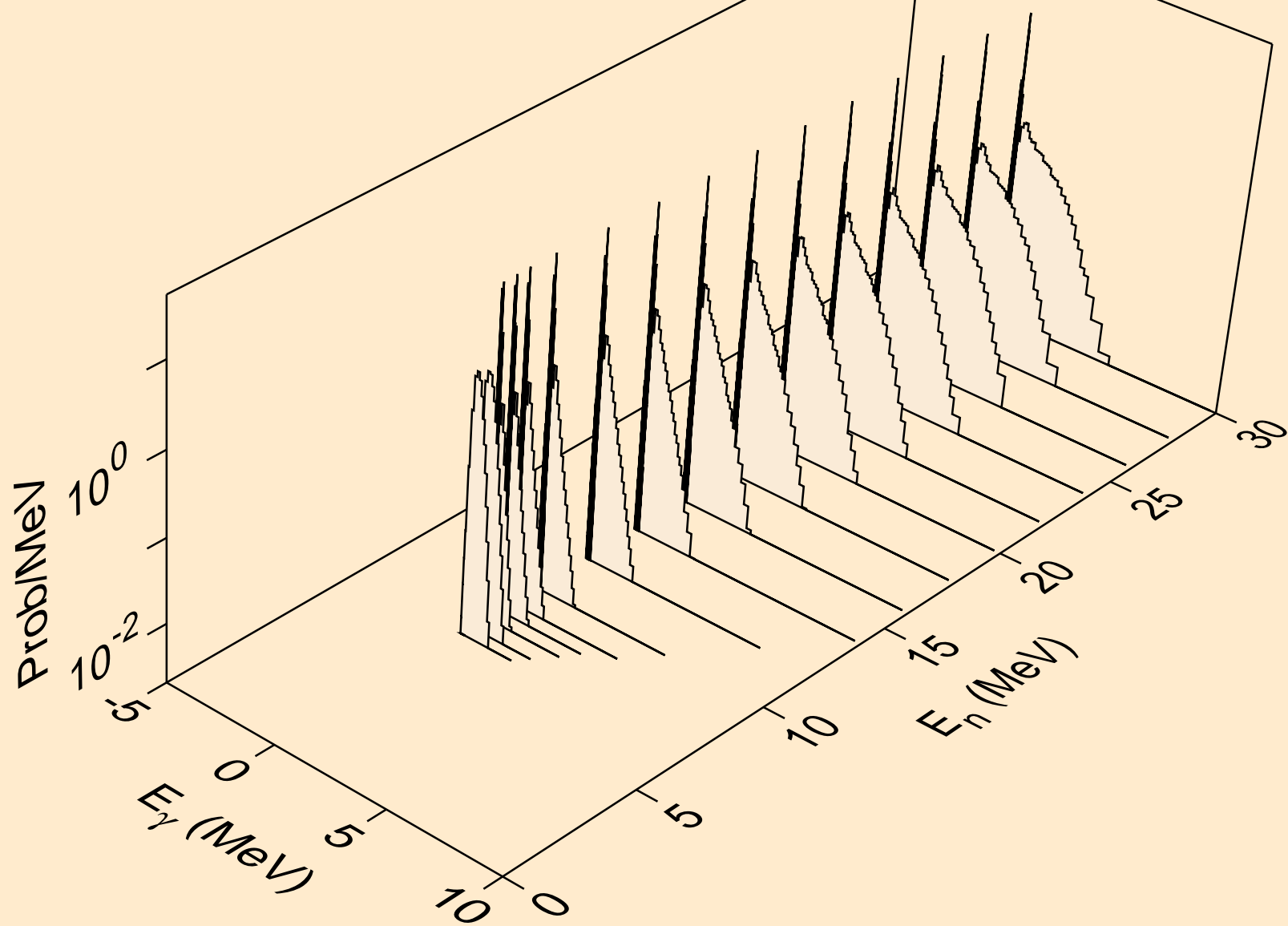
PB189 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,3np)



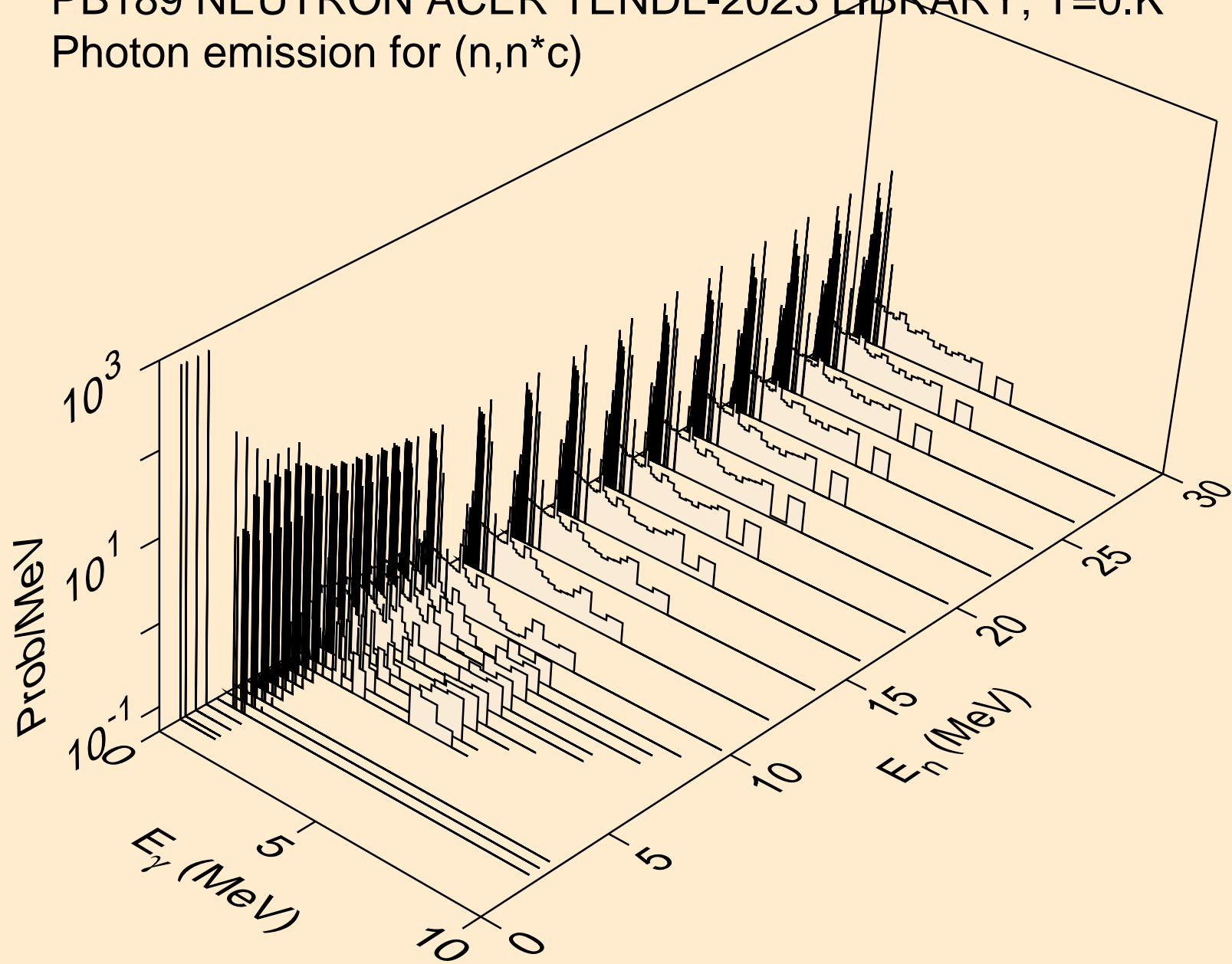
PB189 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n2p)



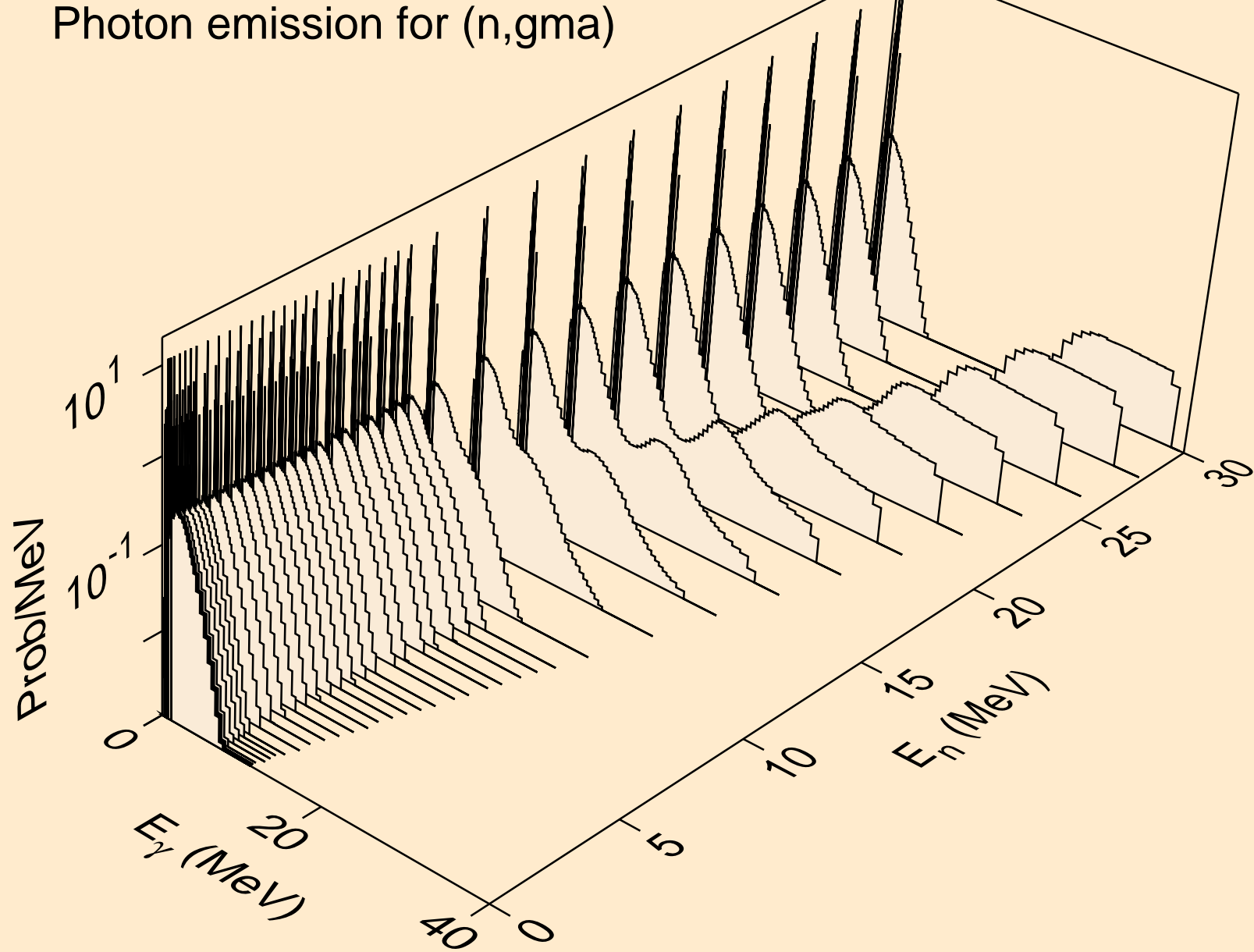
PB189 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,npa)



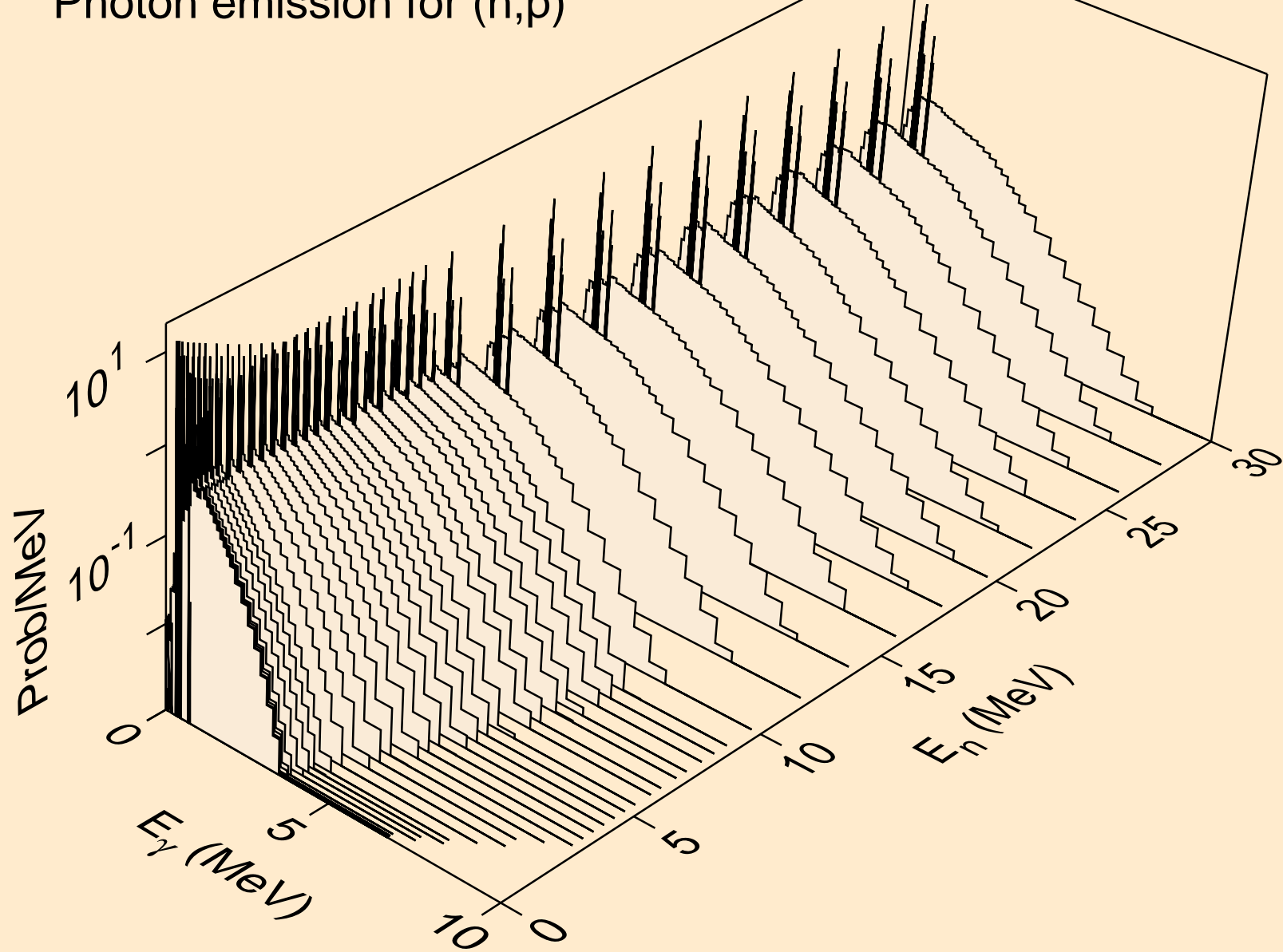
PB189 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*c)



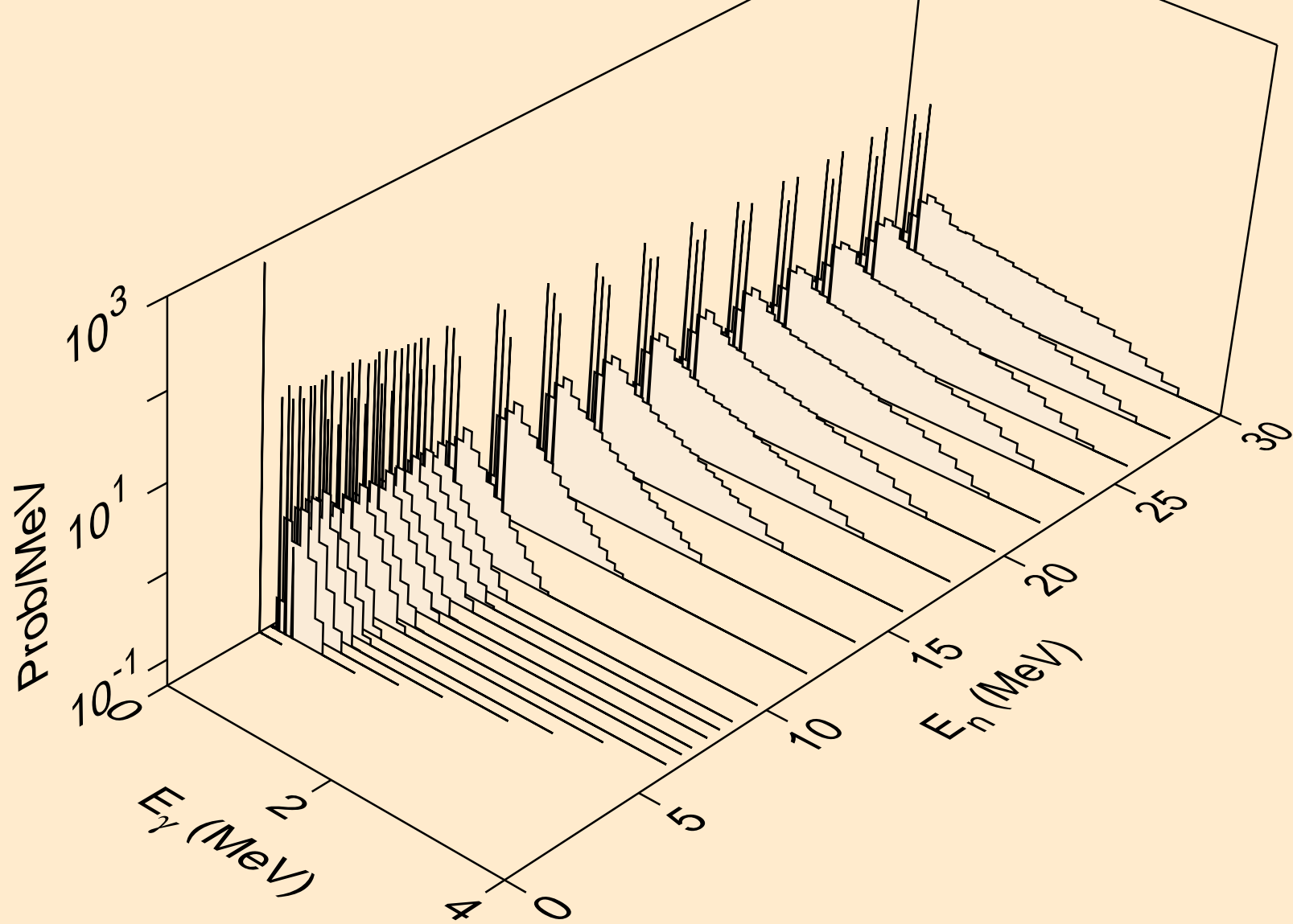
PB189 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,gma)



PB189 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,p)

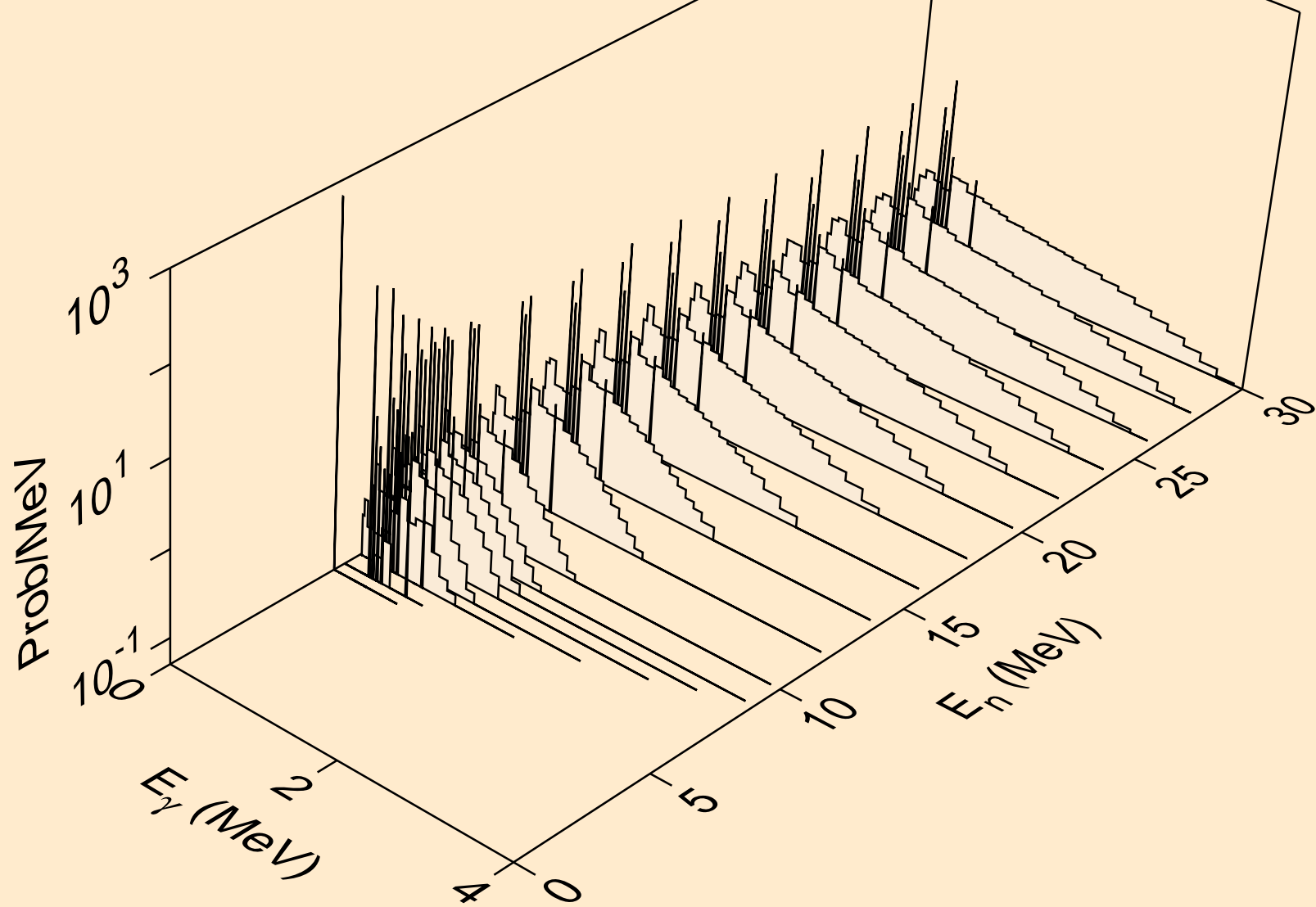


PB189 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,d)

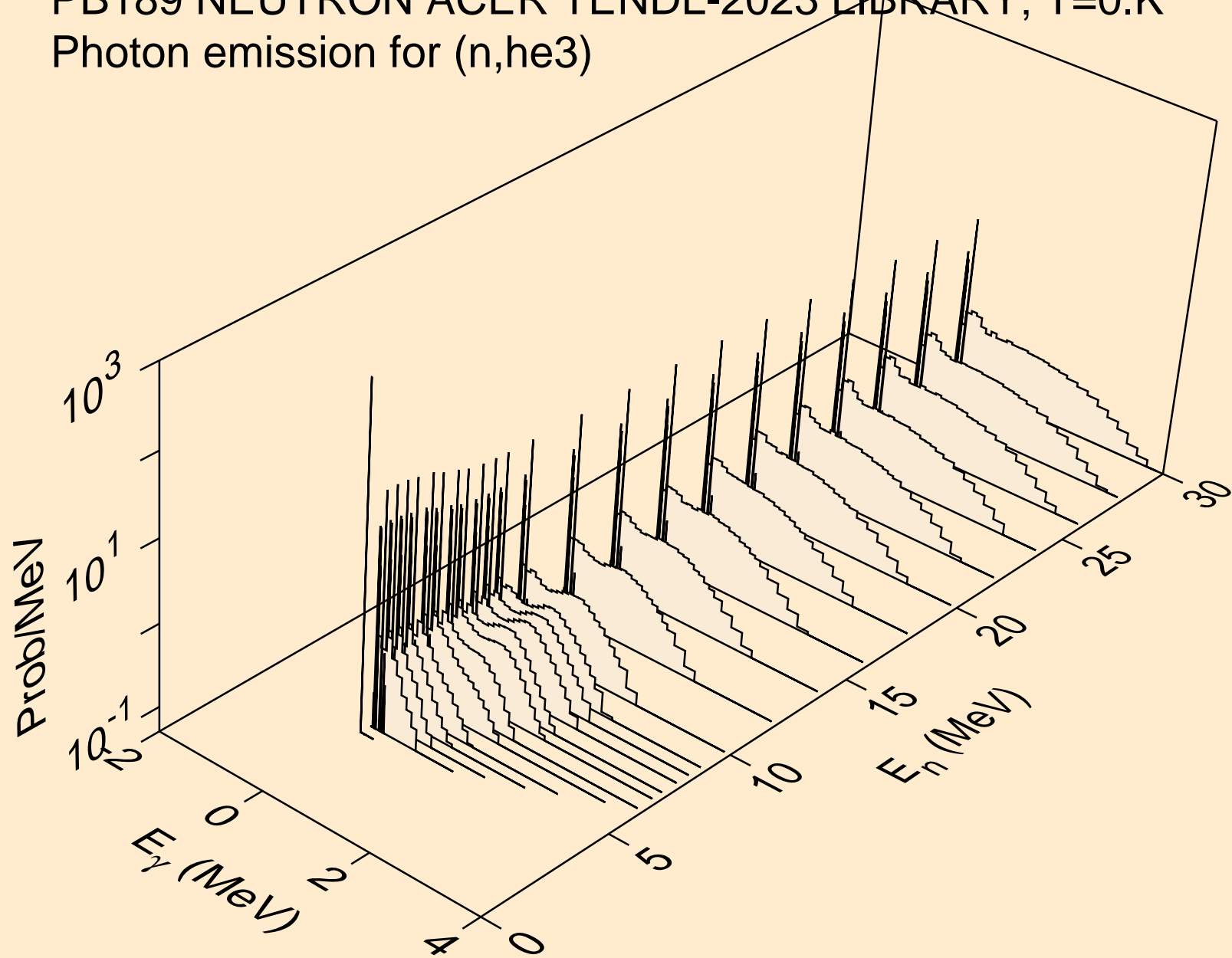




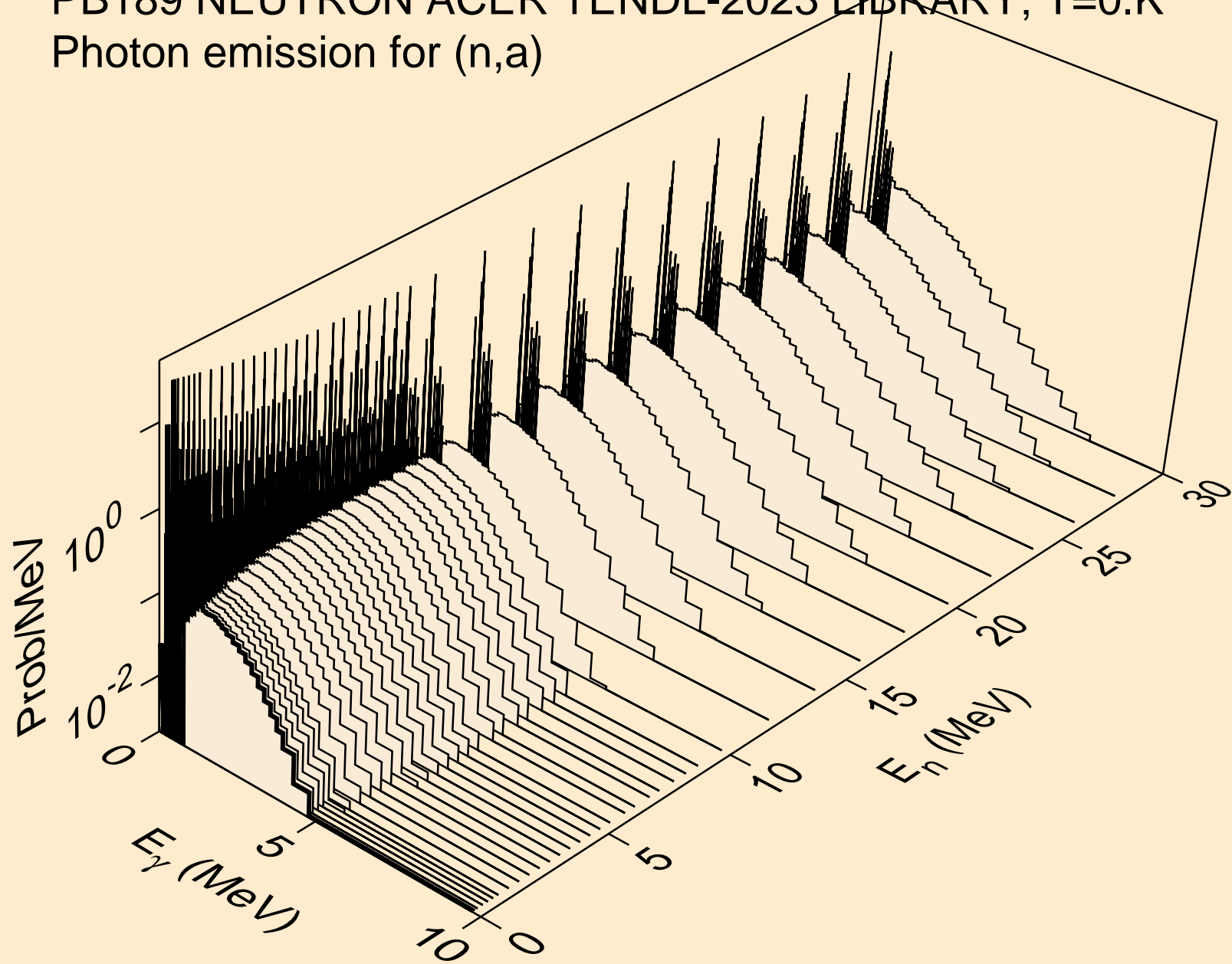
PB189 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,t)



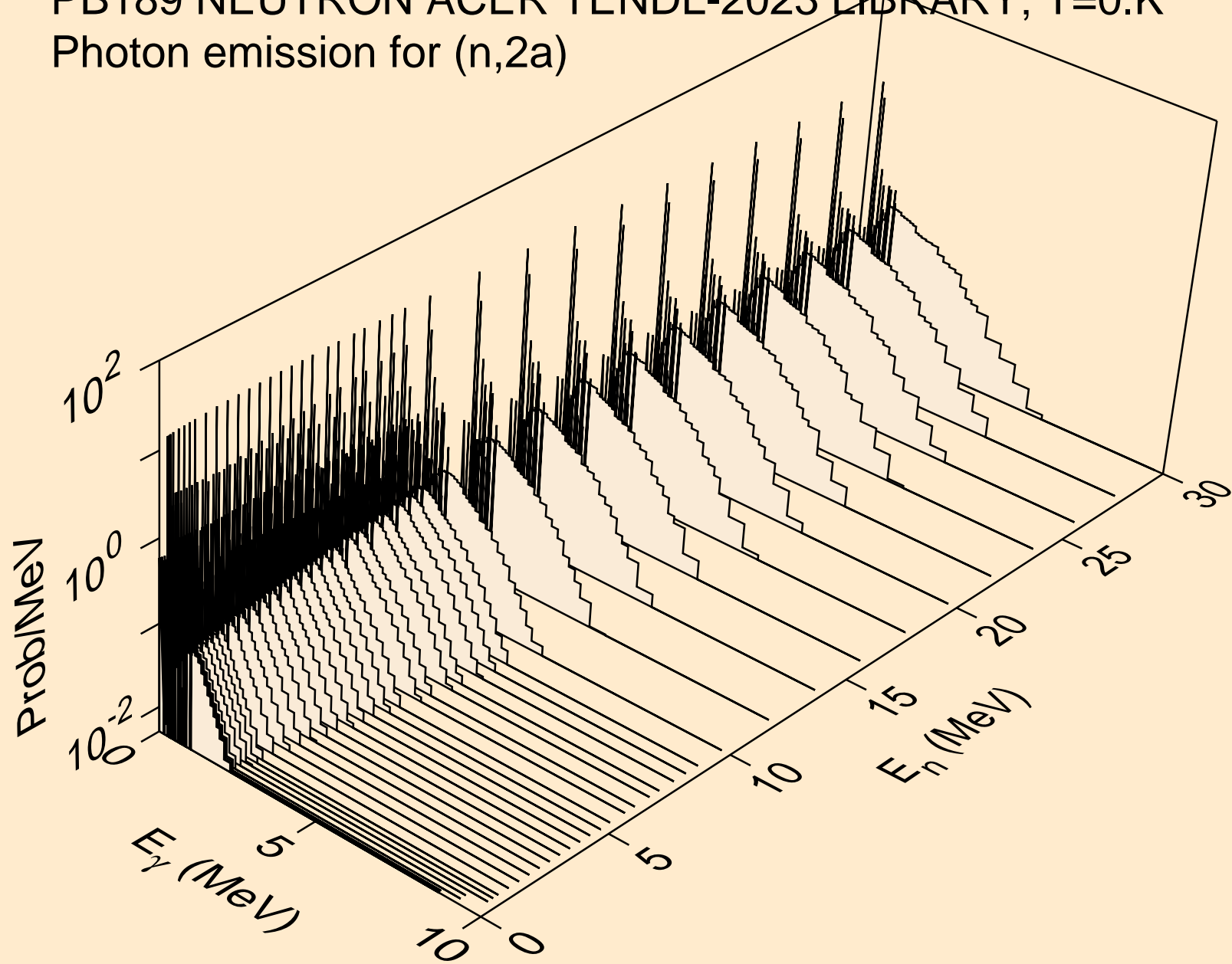
PB189 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,he3)



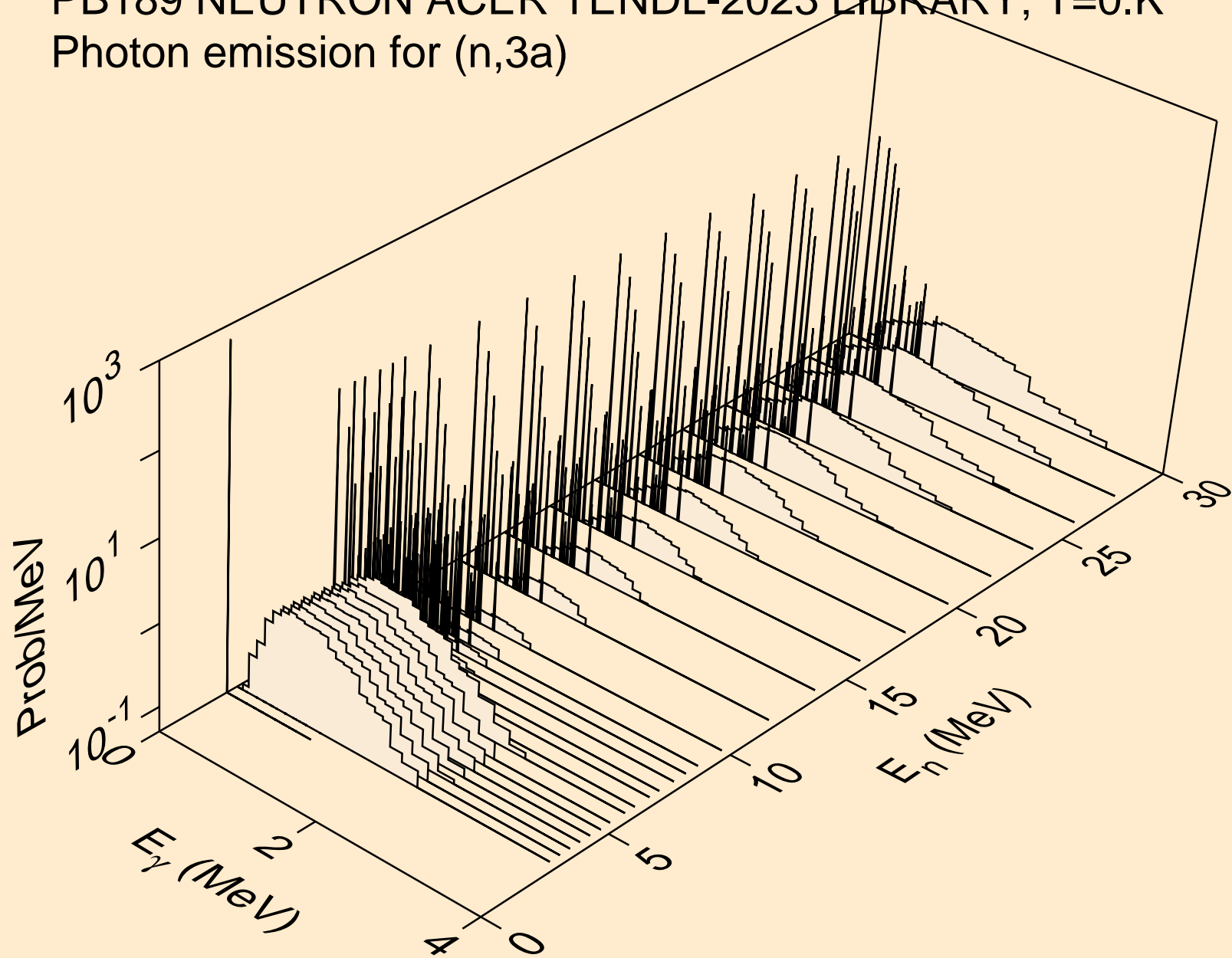
PB189 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,a)



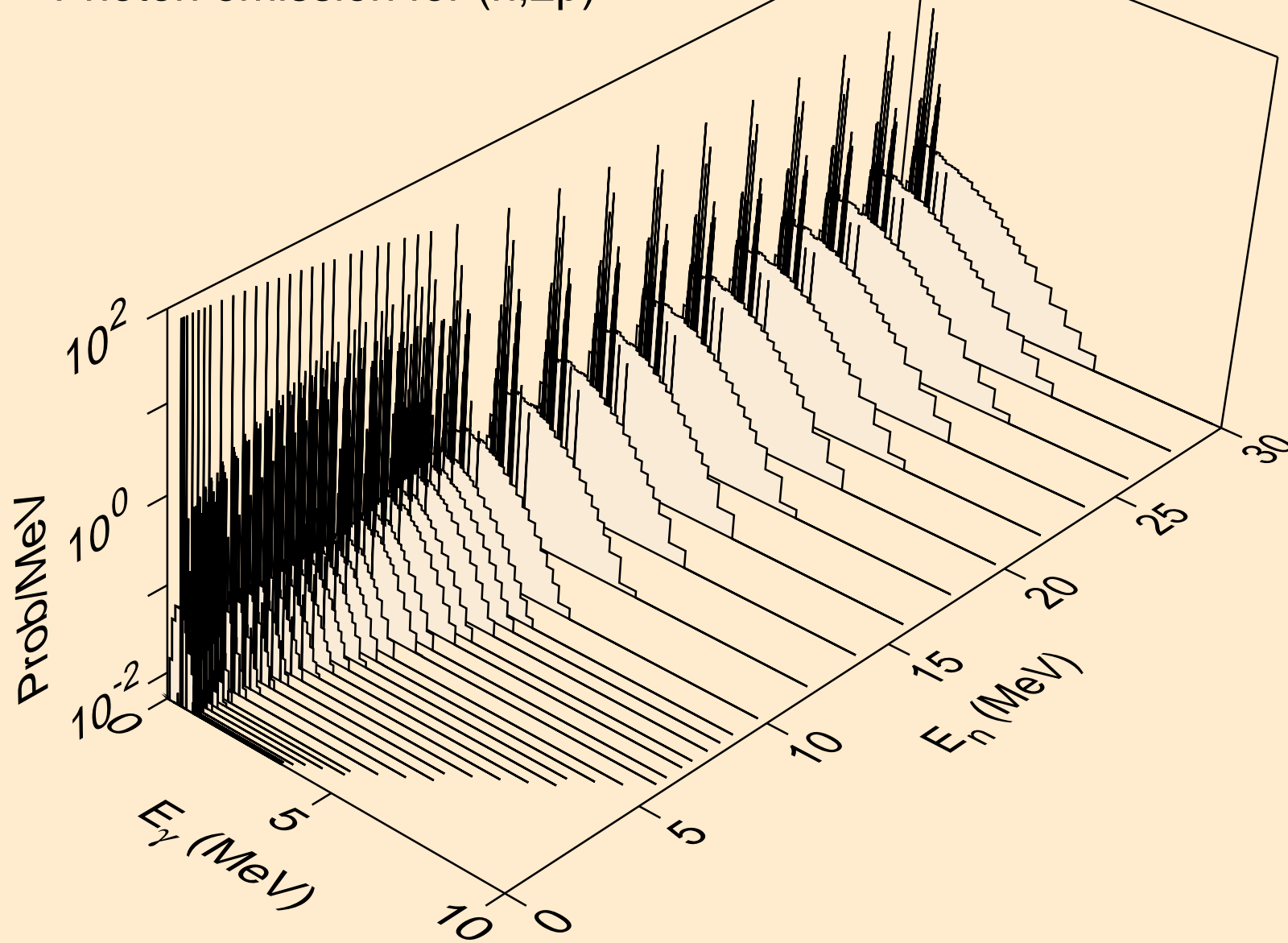
PB189 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2a)



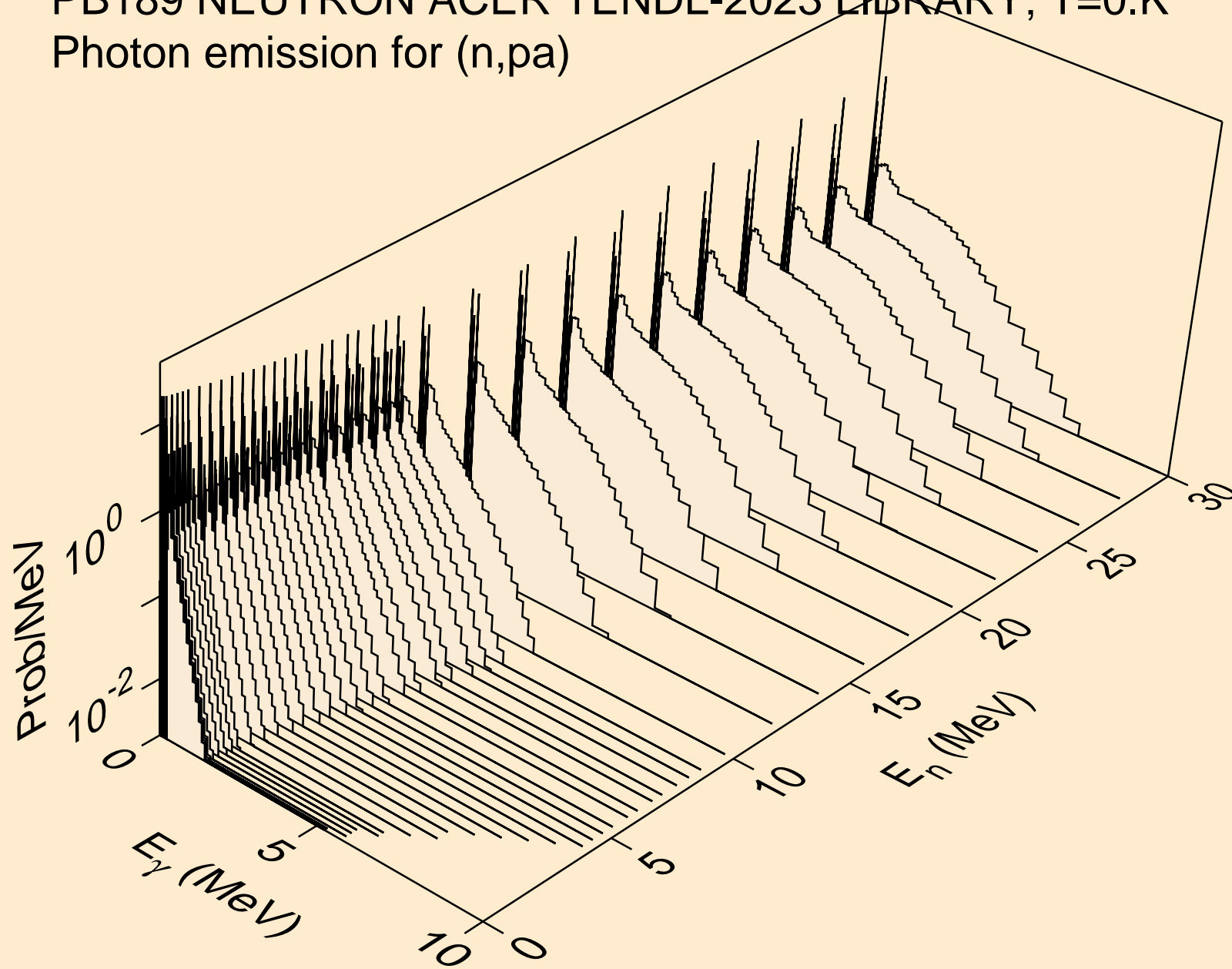
PB189 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,3a)



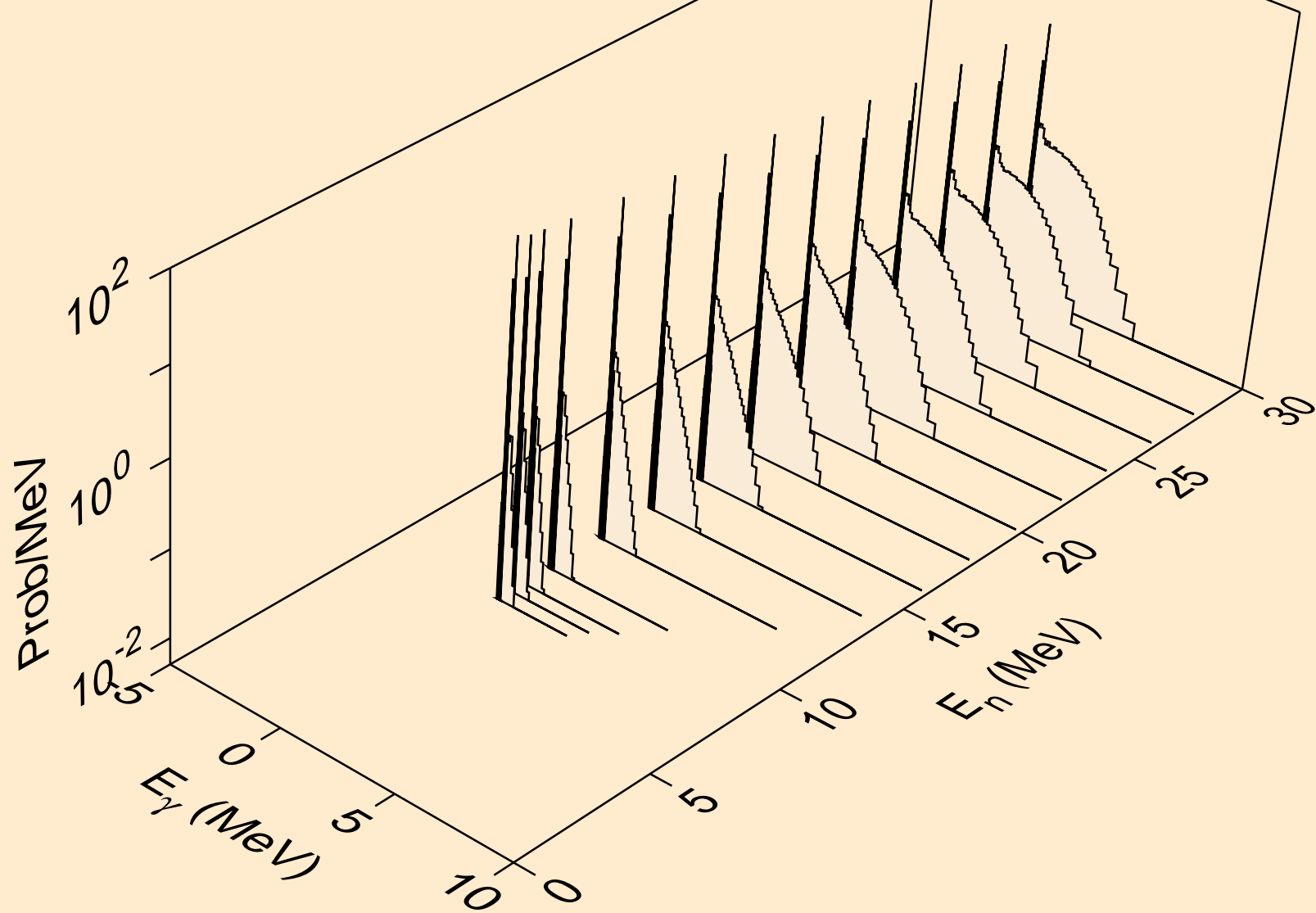
PB189 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2p)



PB189 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,p $\alpha$ )

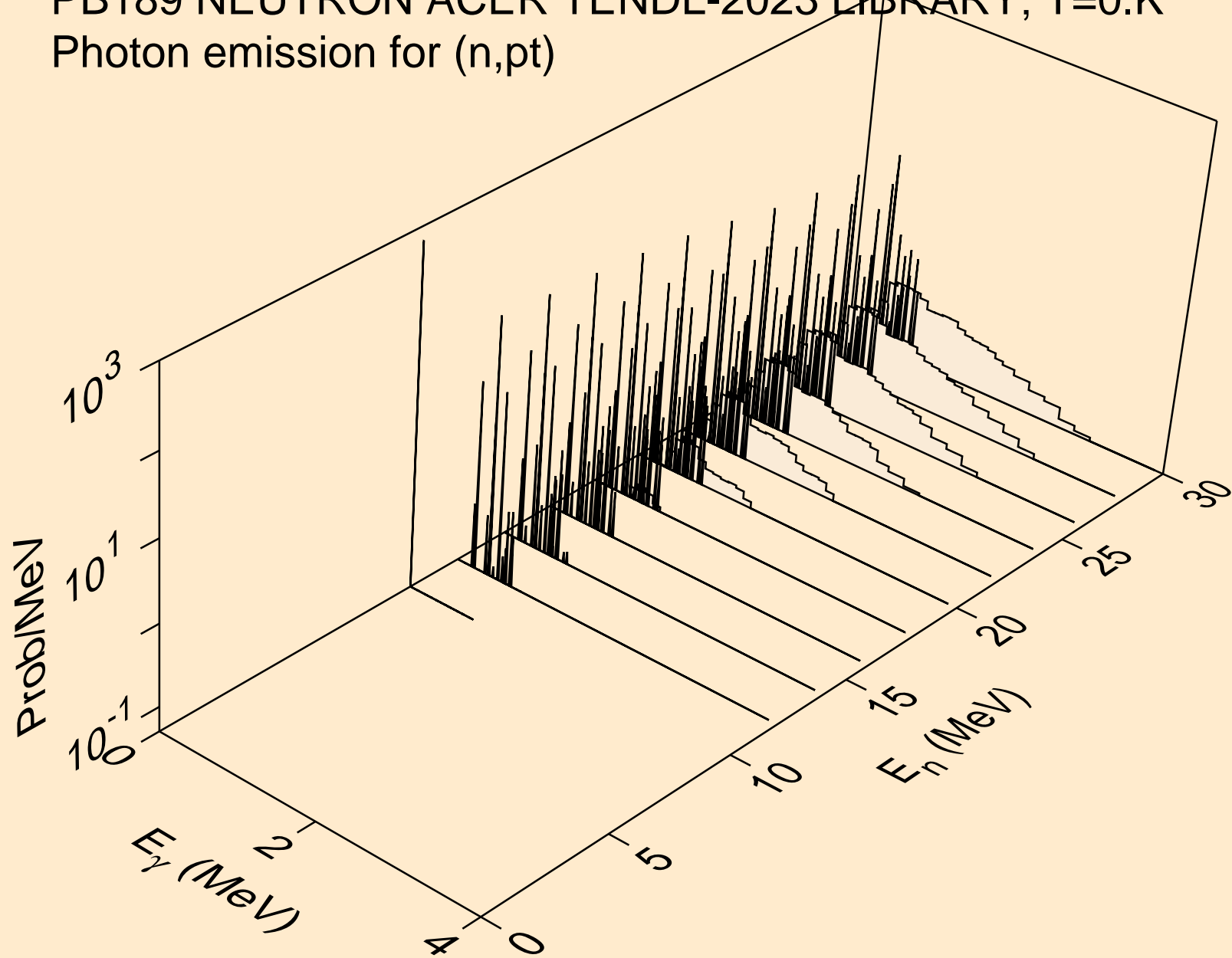


PB189 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,pd)

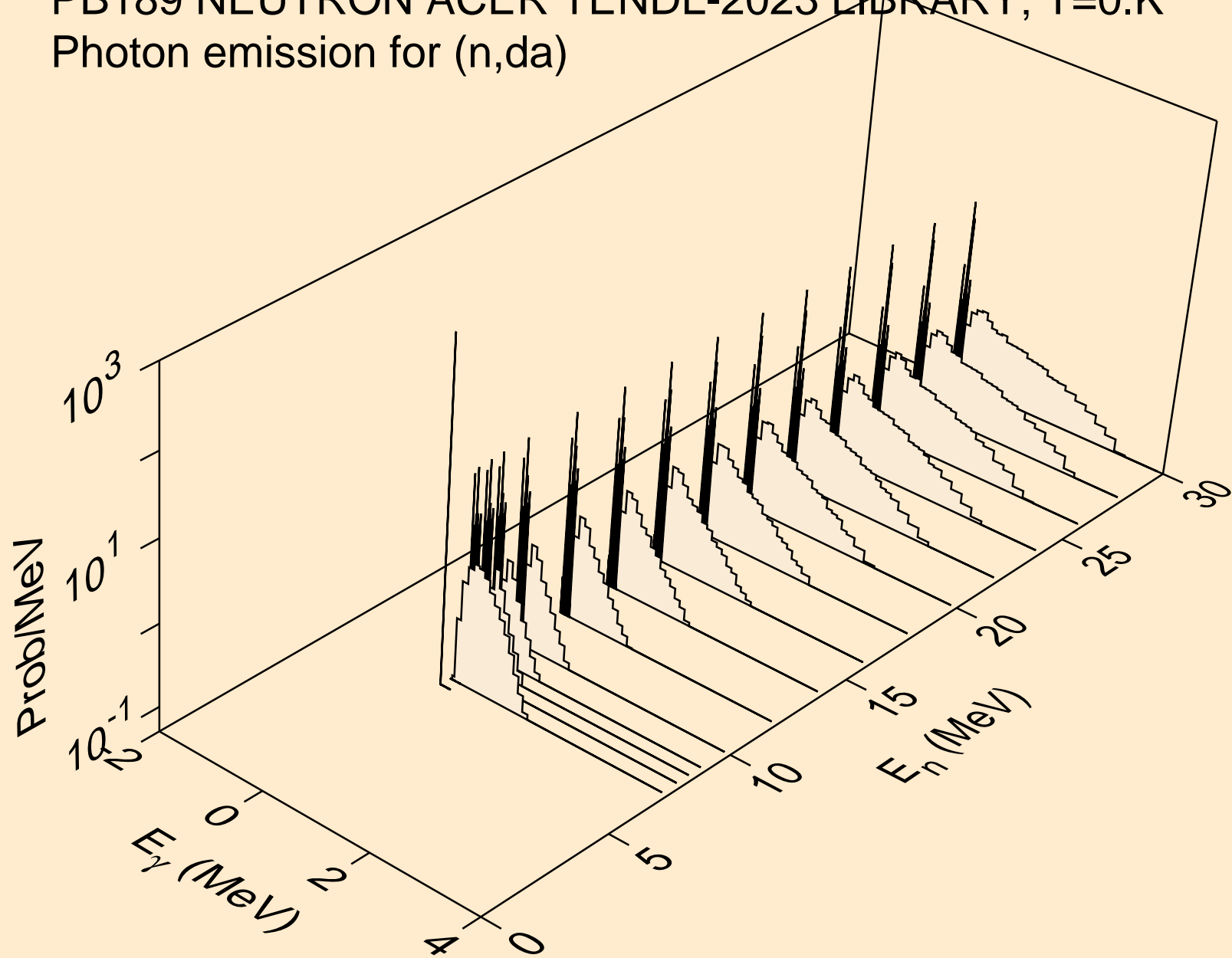




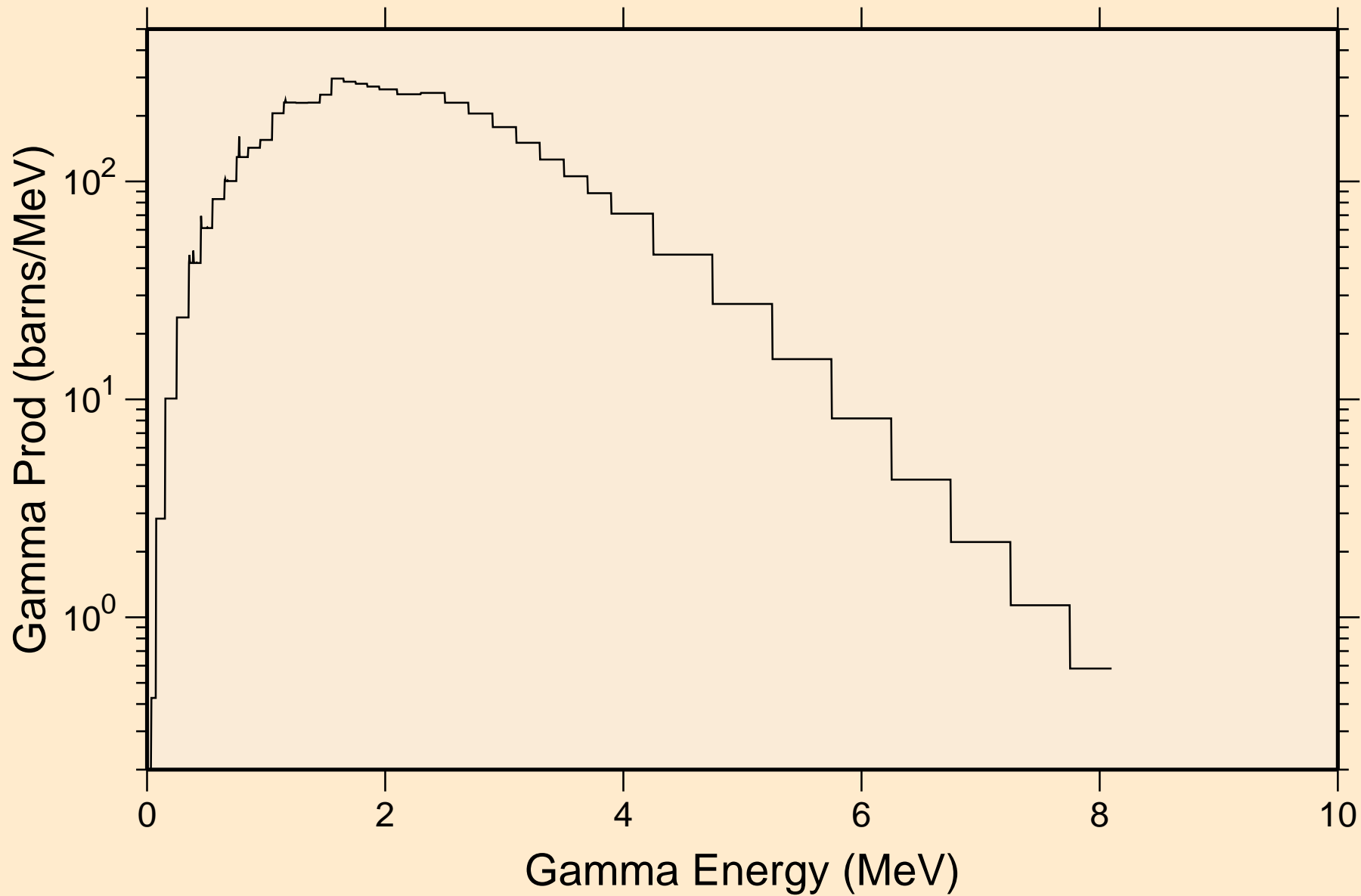
PB189 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,pt)



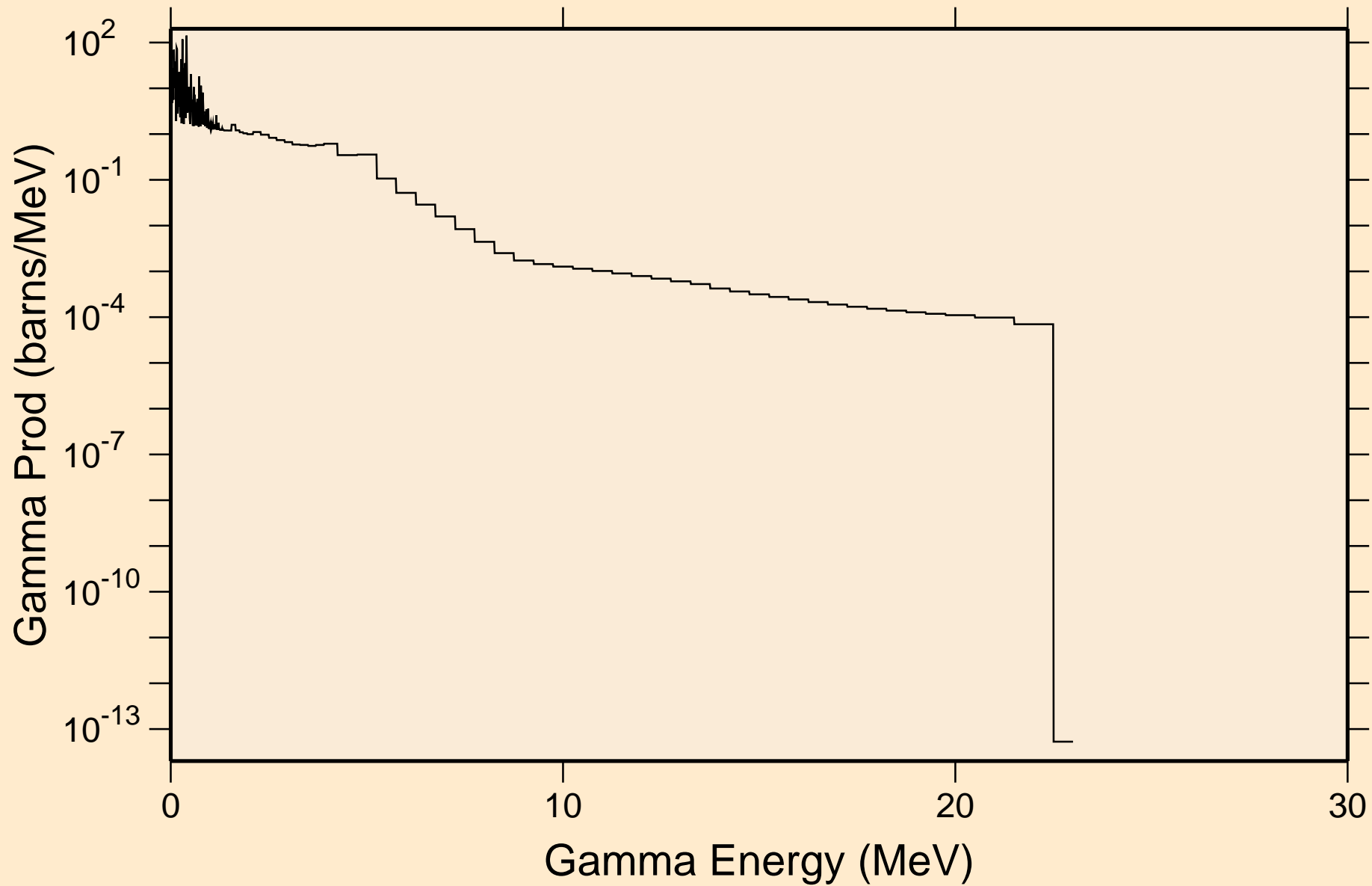
PB189 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,da)



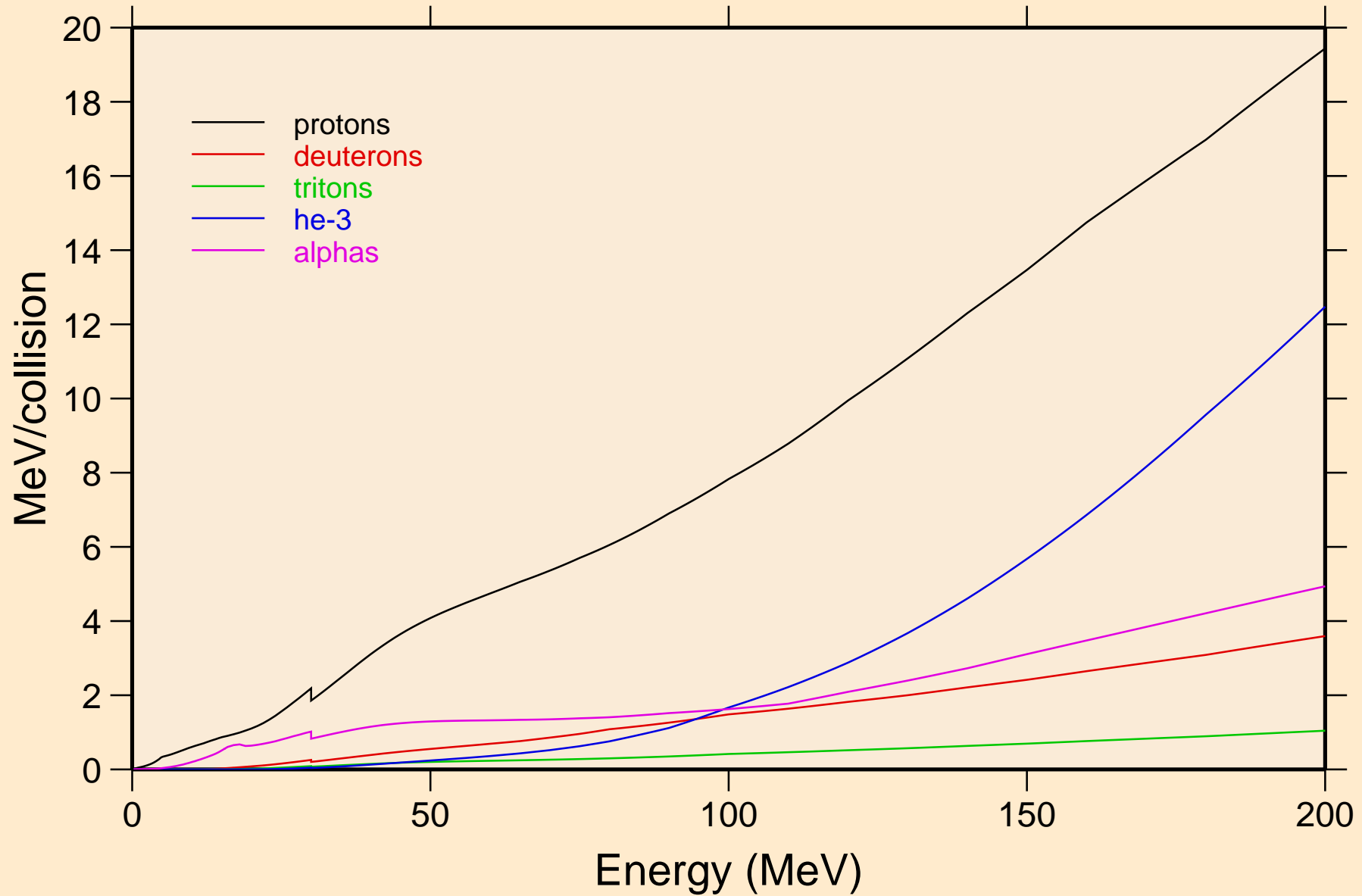
PB189 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
thermal capture photon spectrum



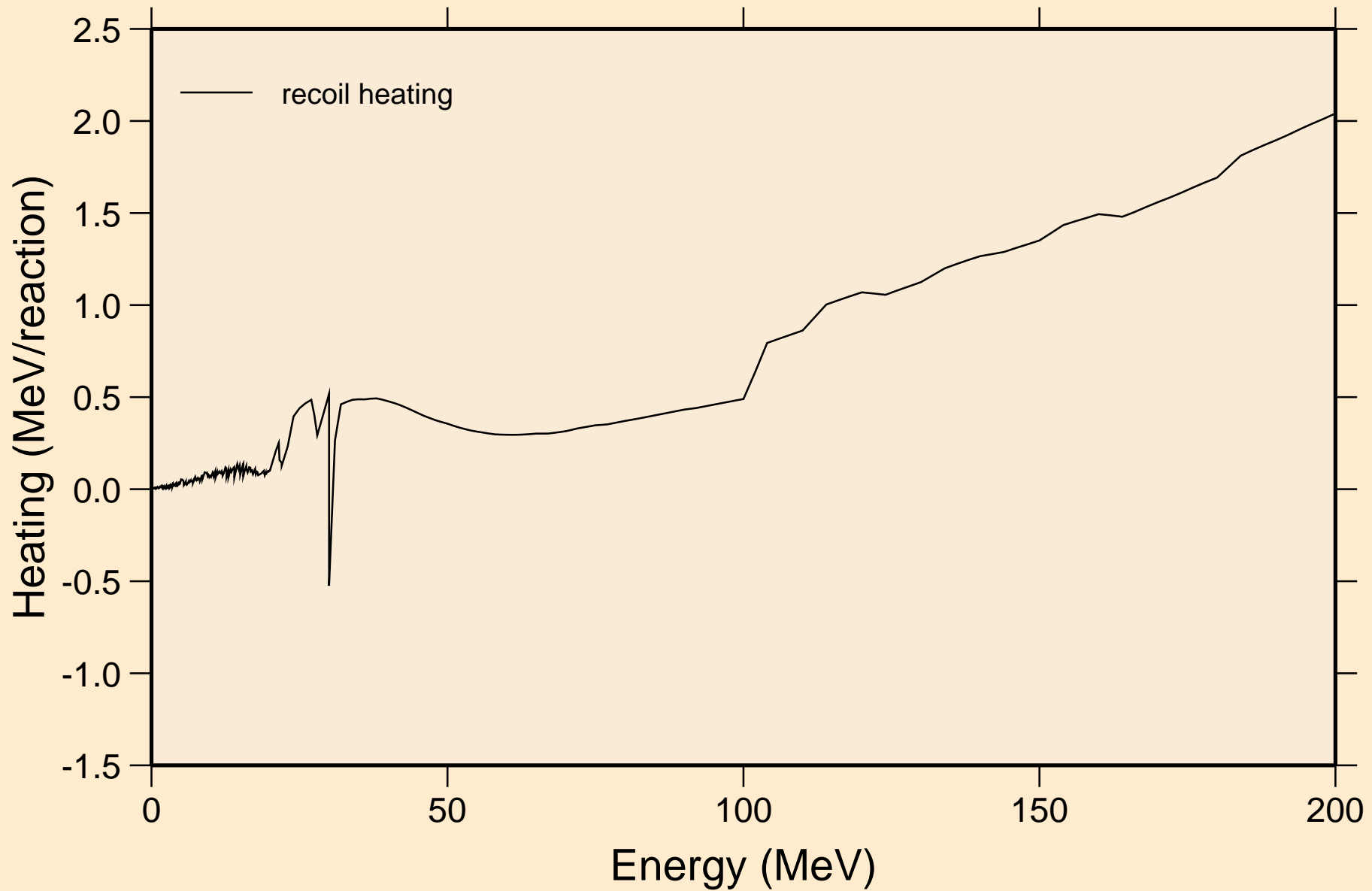
PB189 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
14 MeV photon spectrum



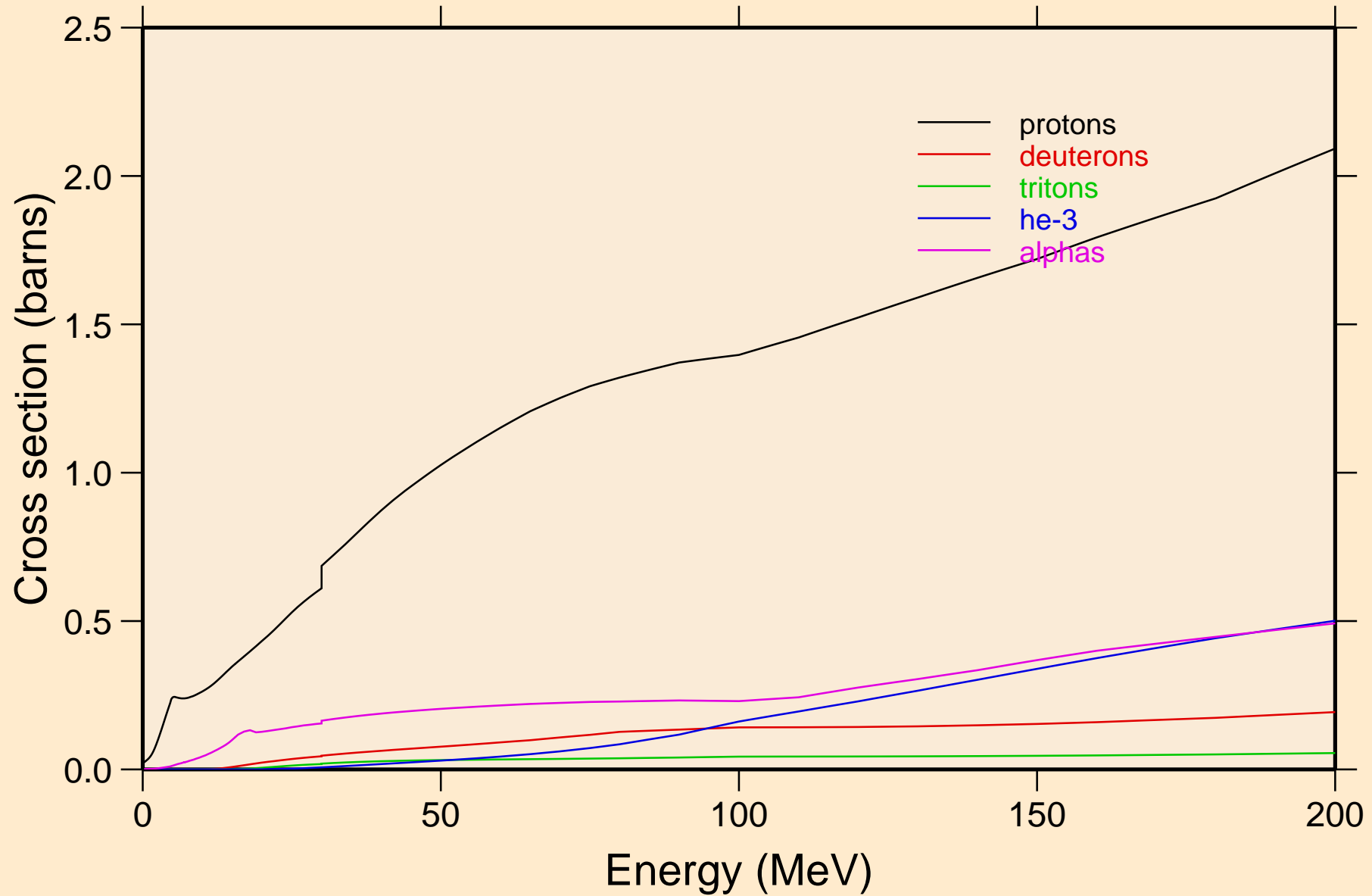
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Particle heating contributions



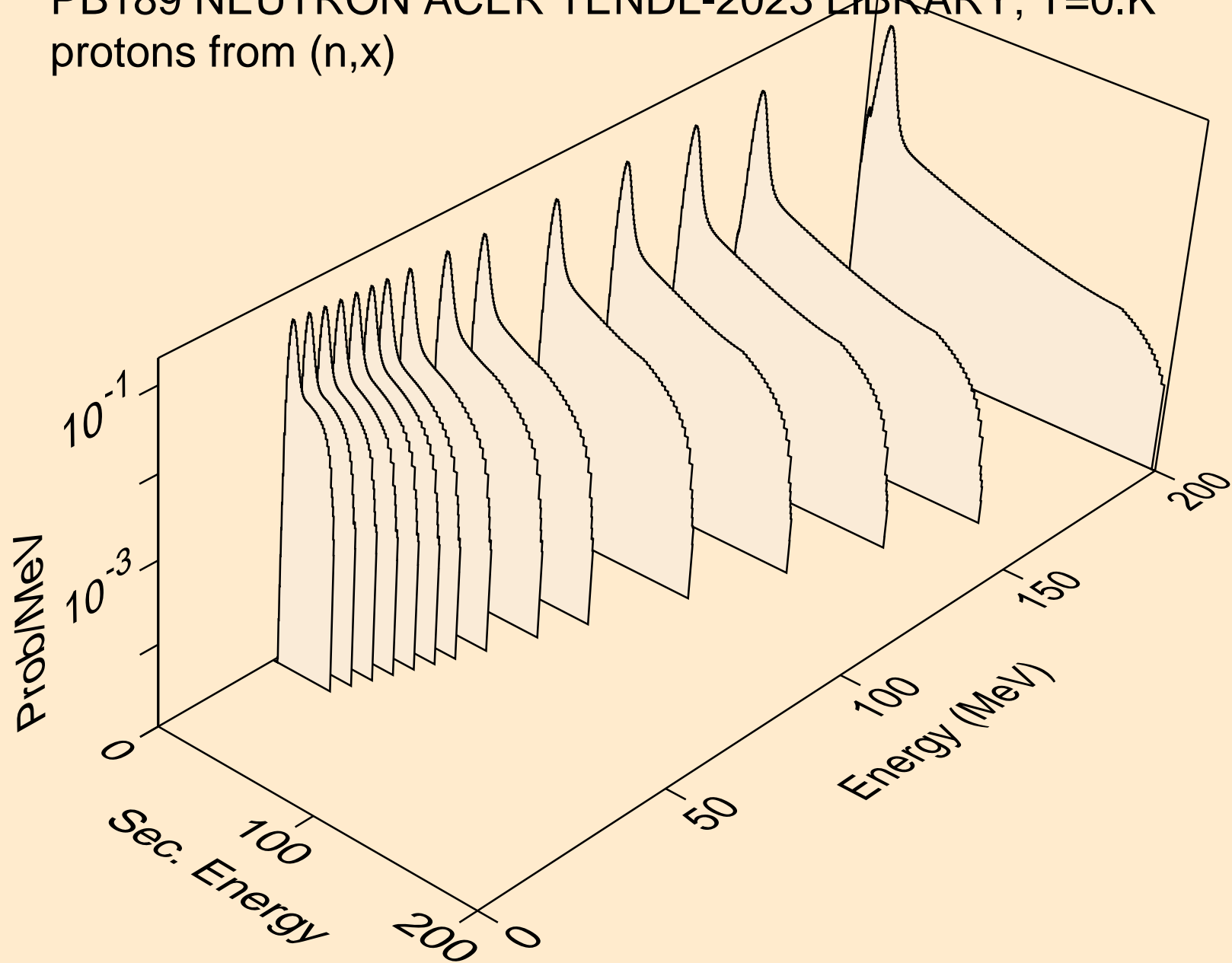
PB189 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Recoil Heating



PB189 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Particle production cross sections

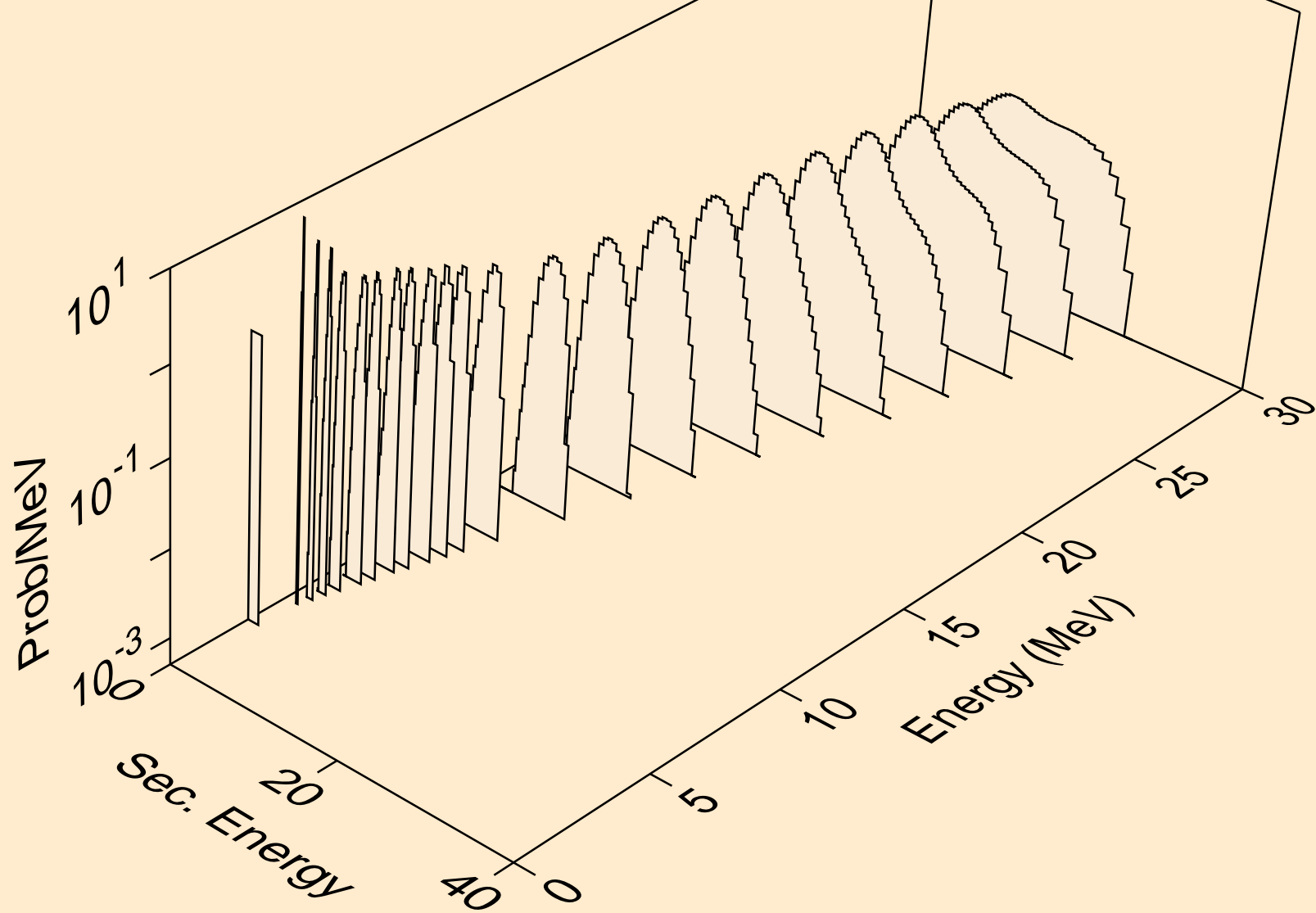


PB189 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
protons from (n,x)

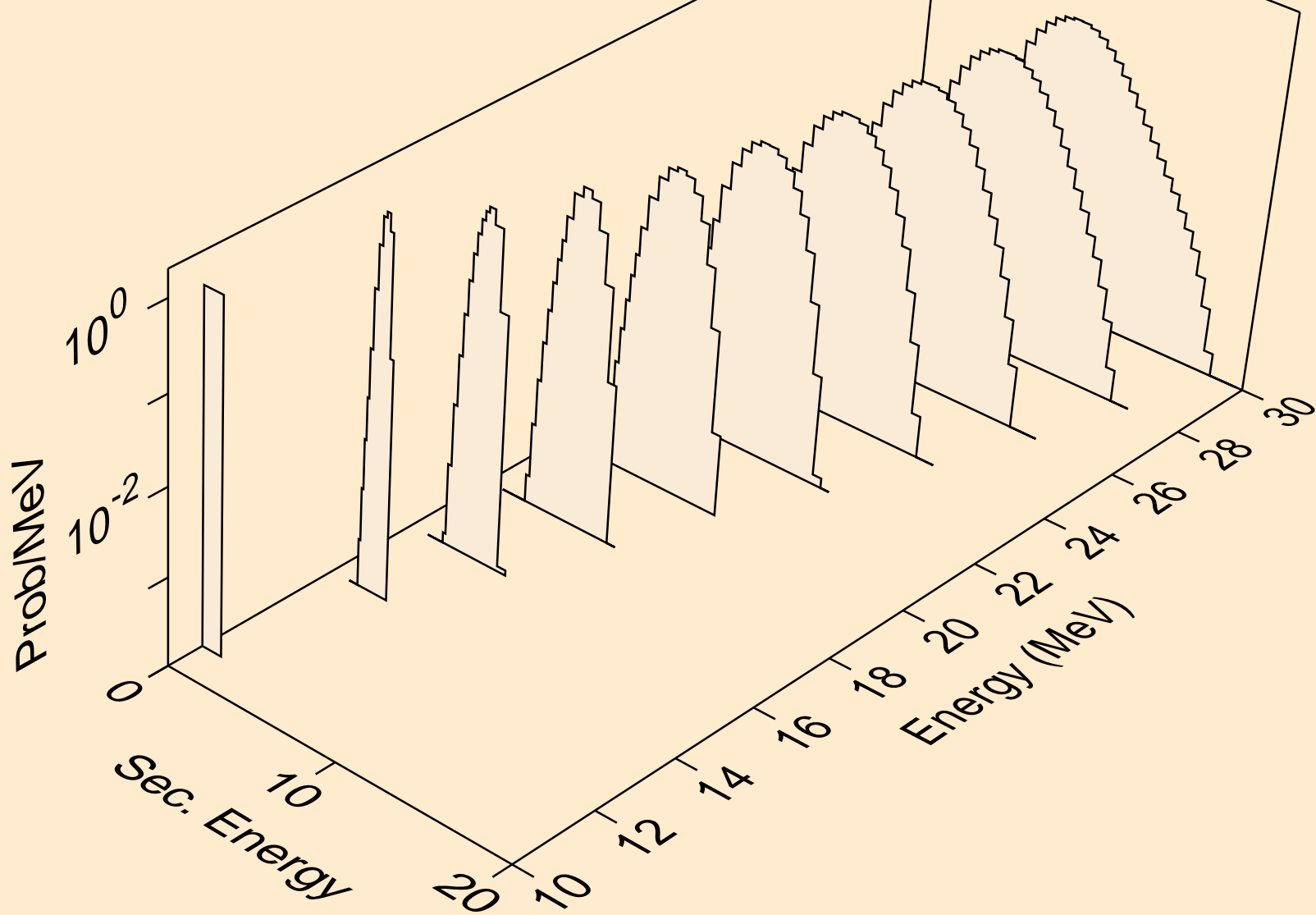




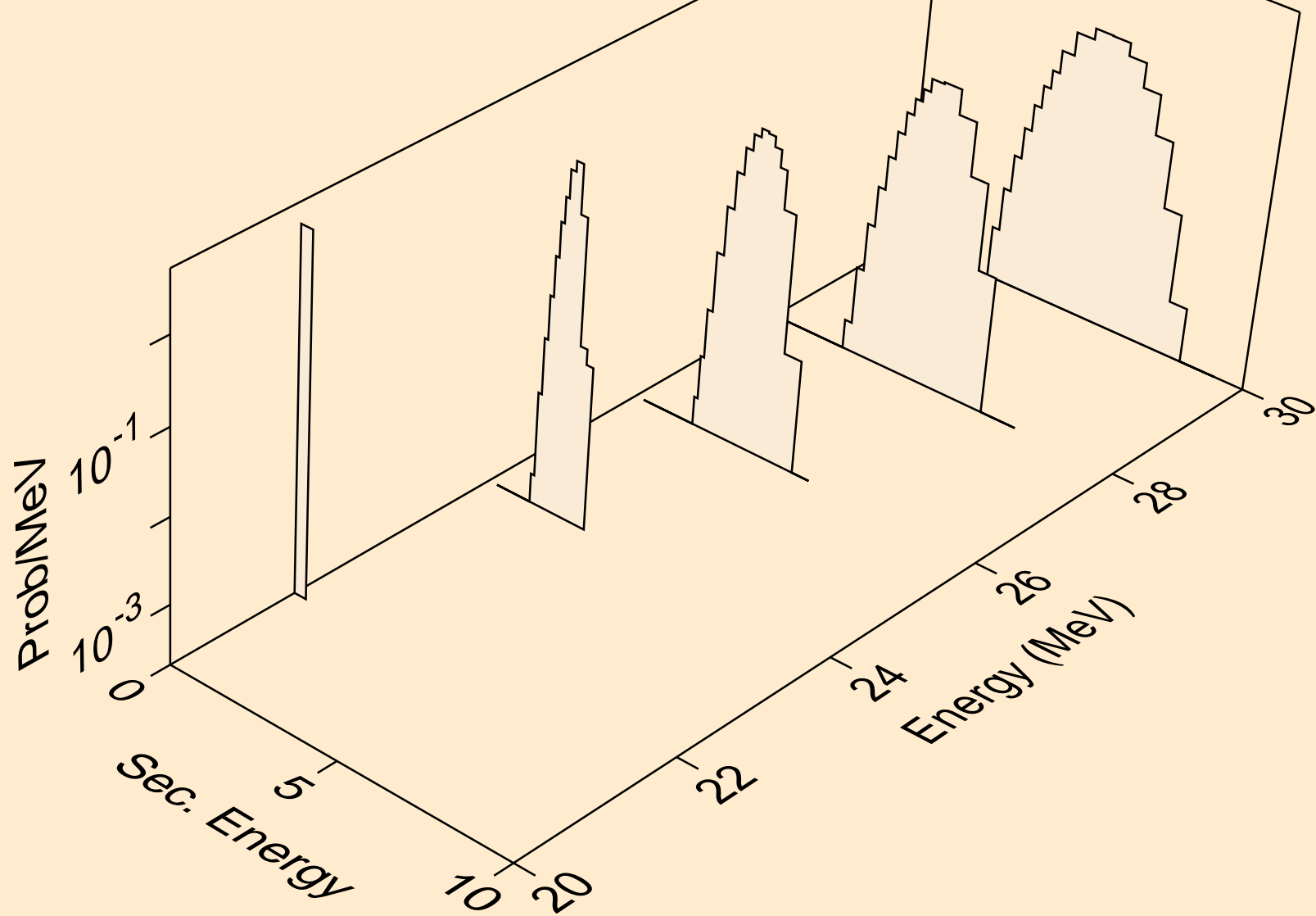
PB189 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
protons from (n,n\*)p



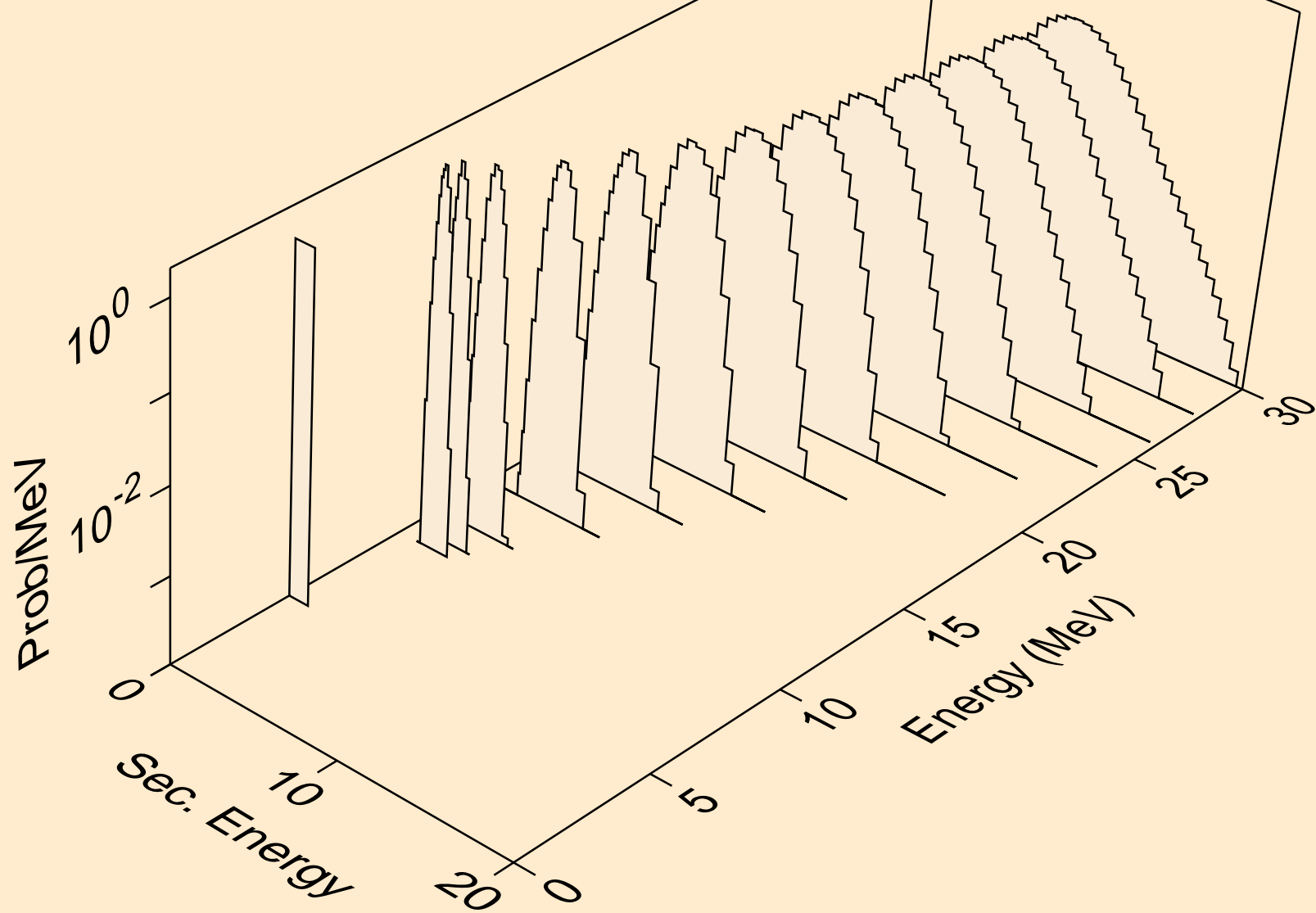
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protons from (n,2np)



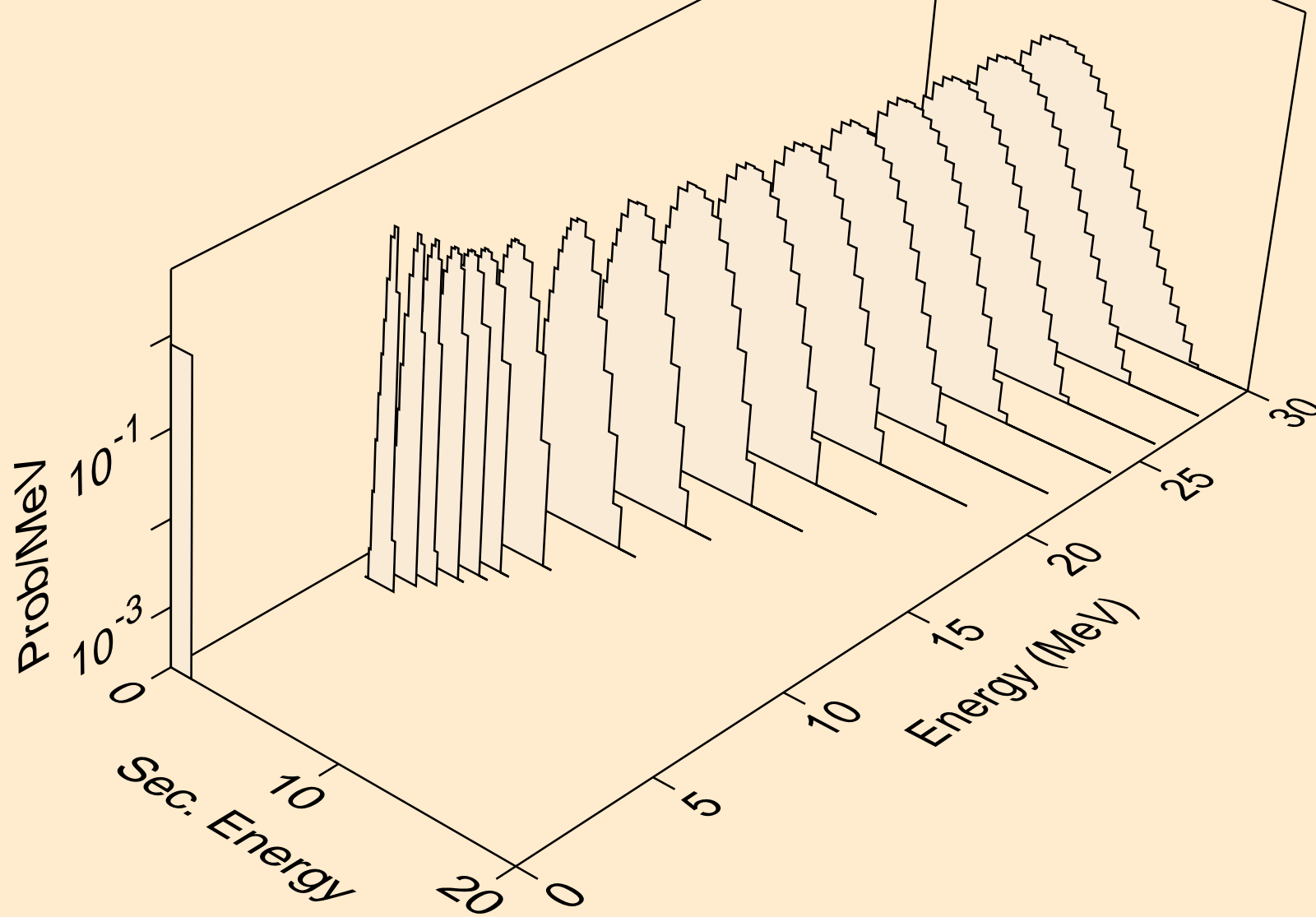
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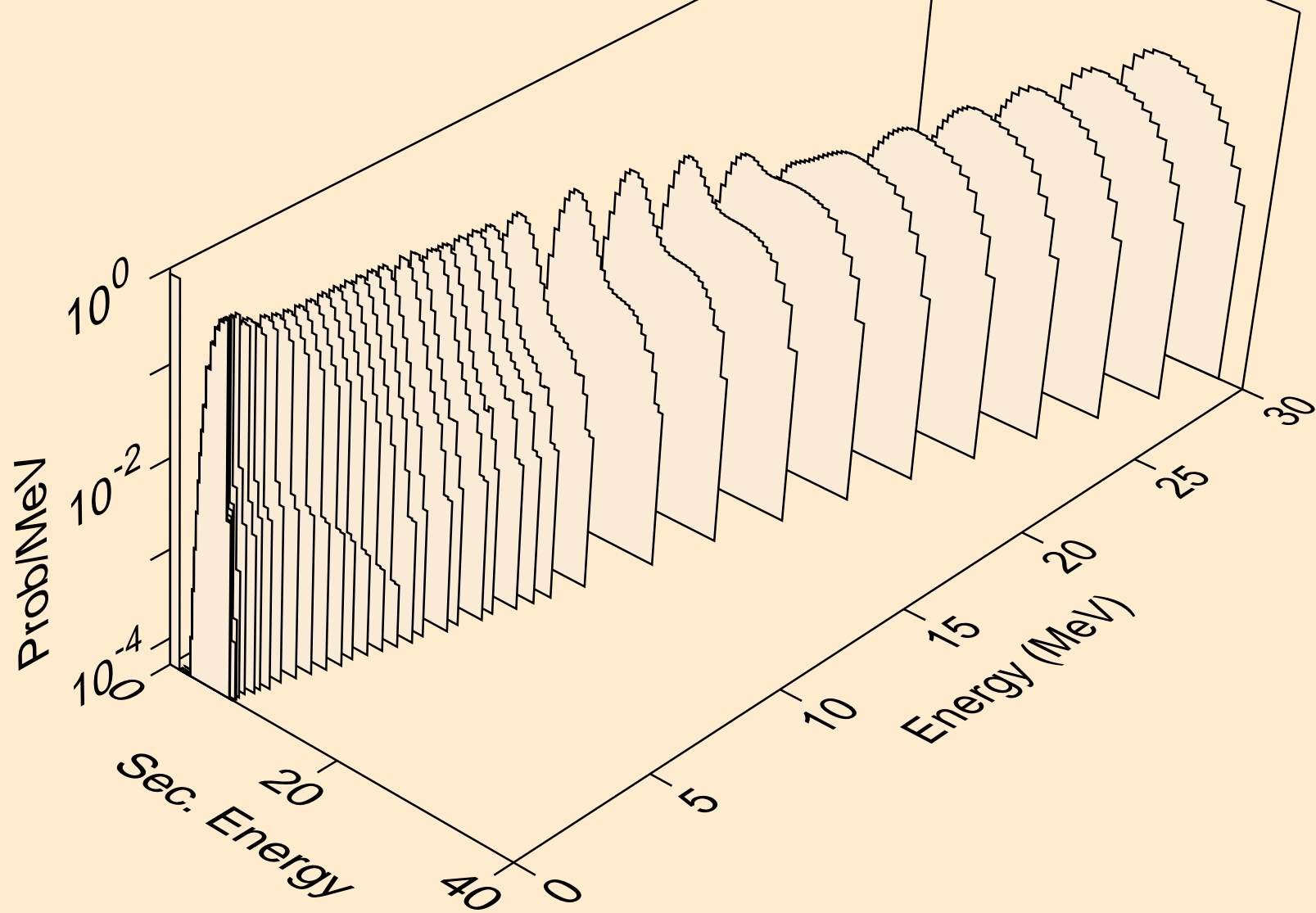
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protons from (n,n2p)



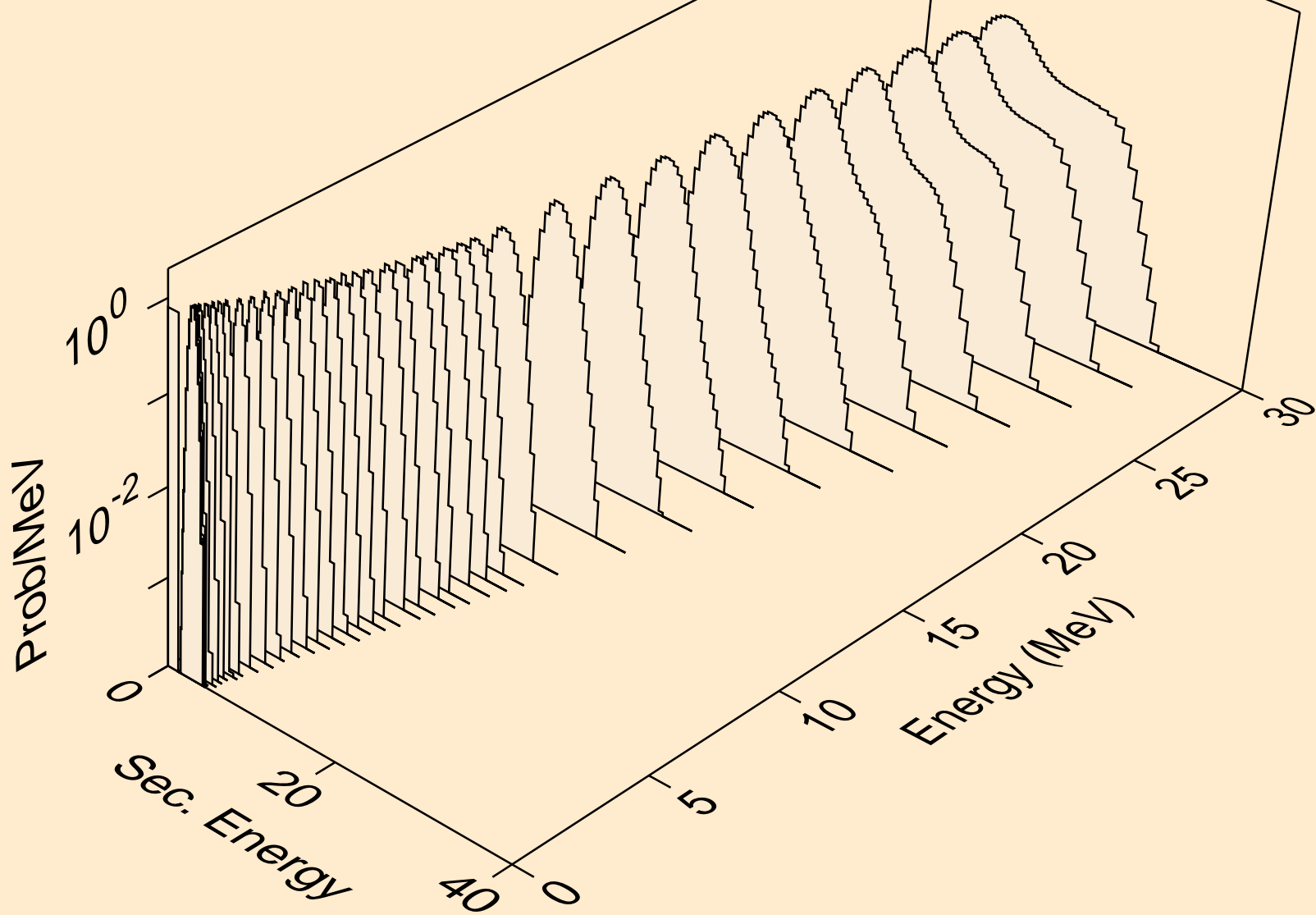
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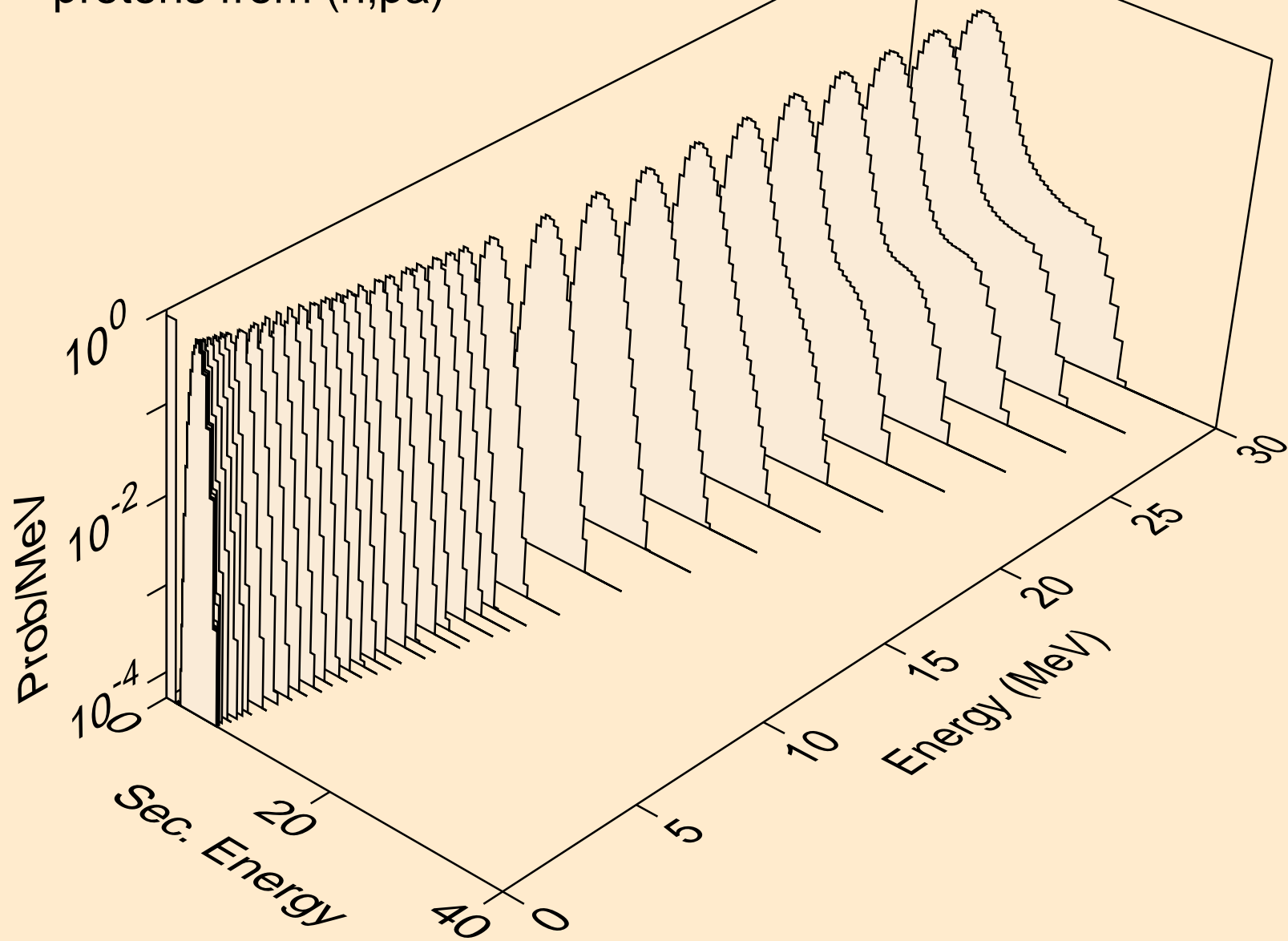
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protons from (n,p)



PB189 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
protons from (n,2p)

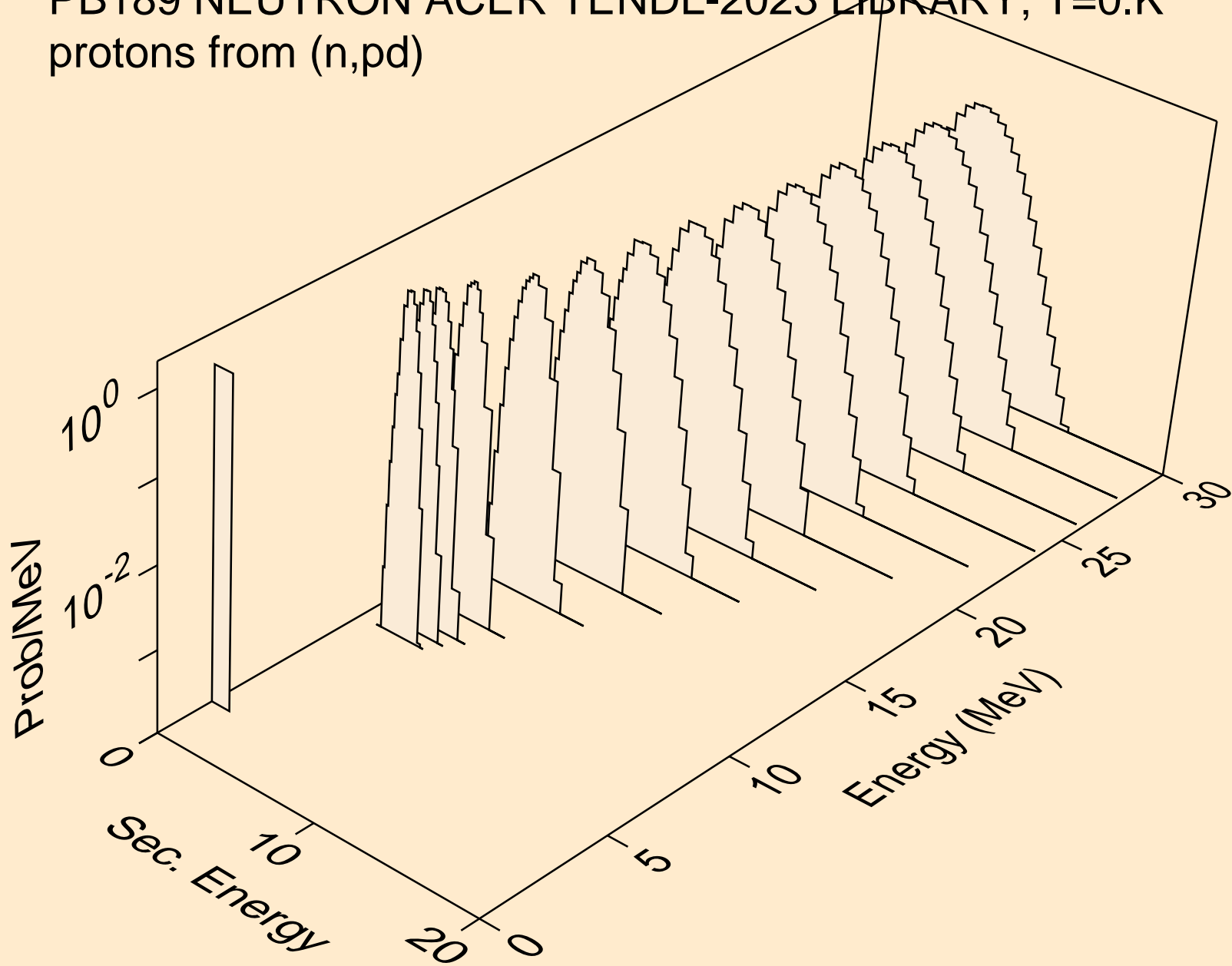


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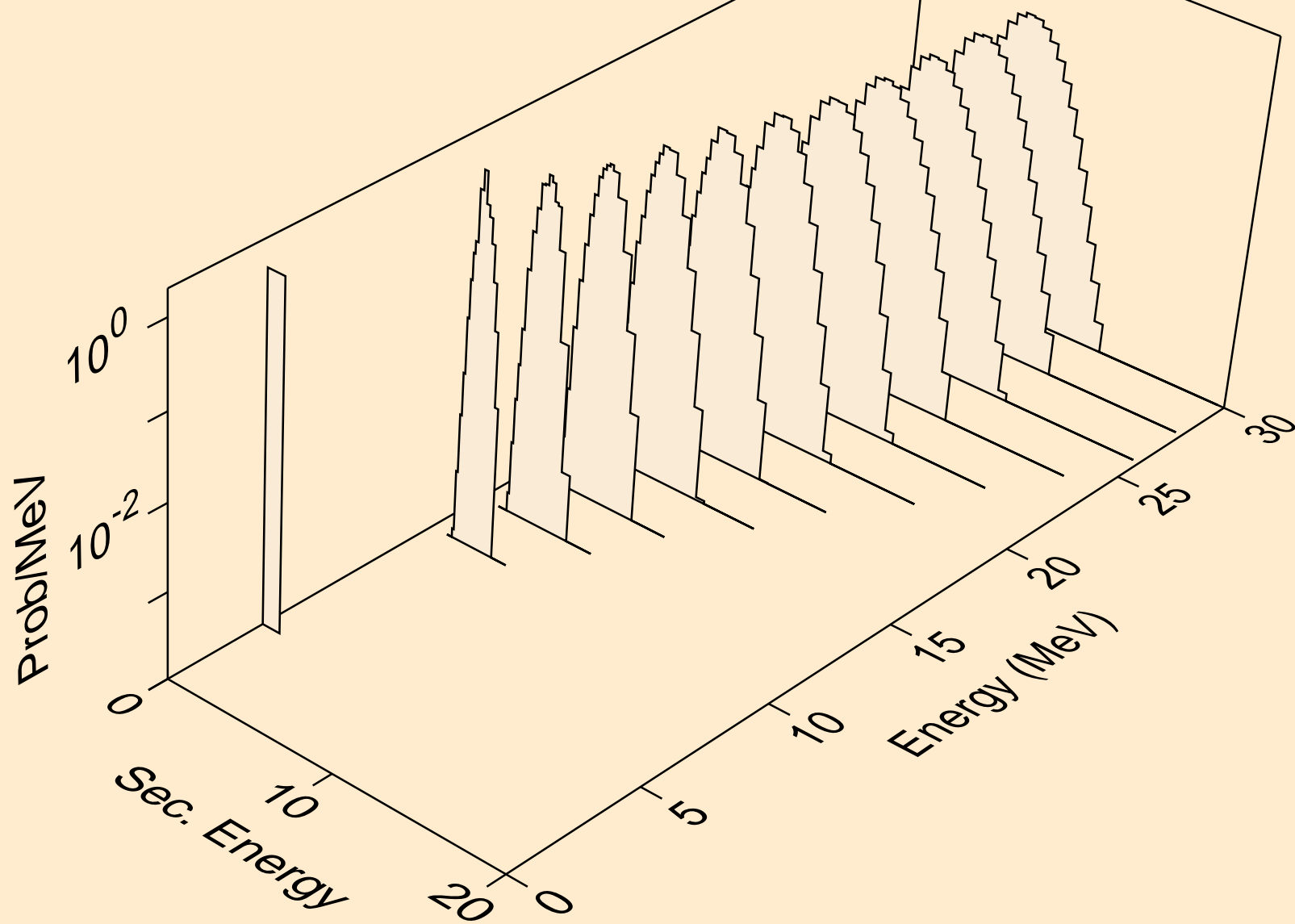




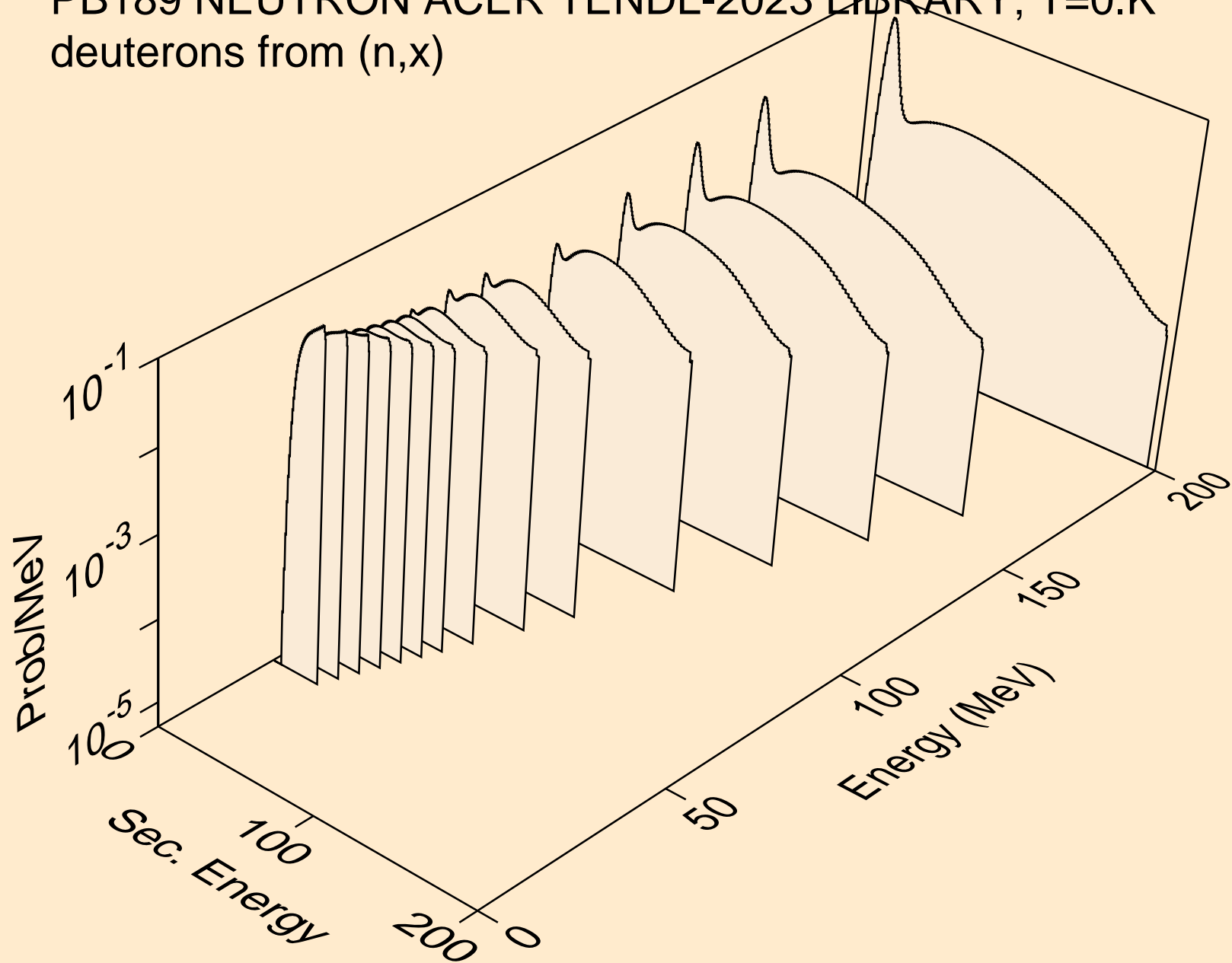
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protons from (n,pd)



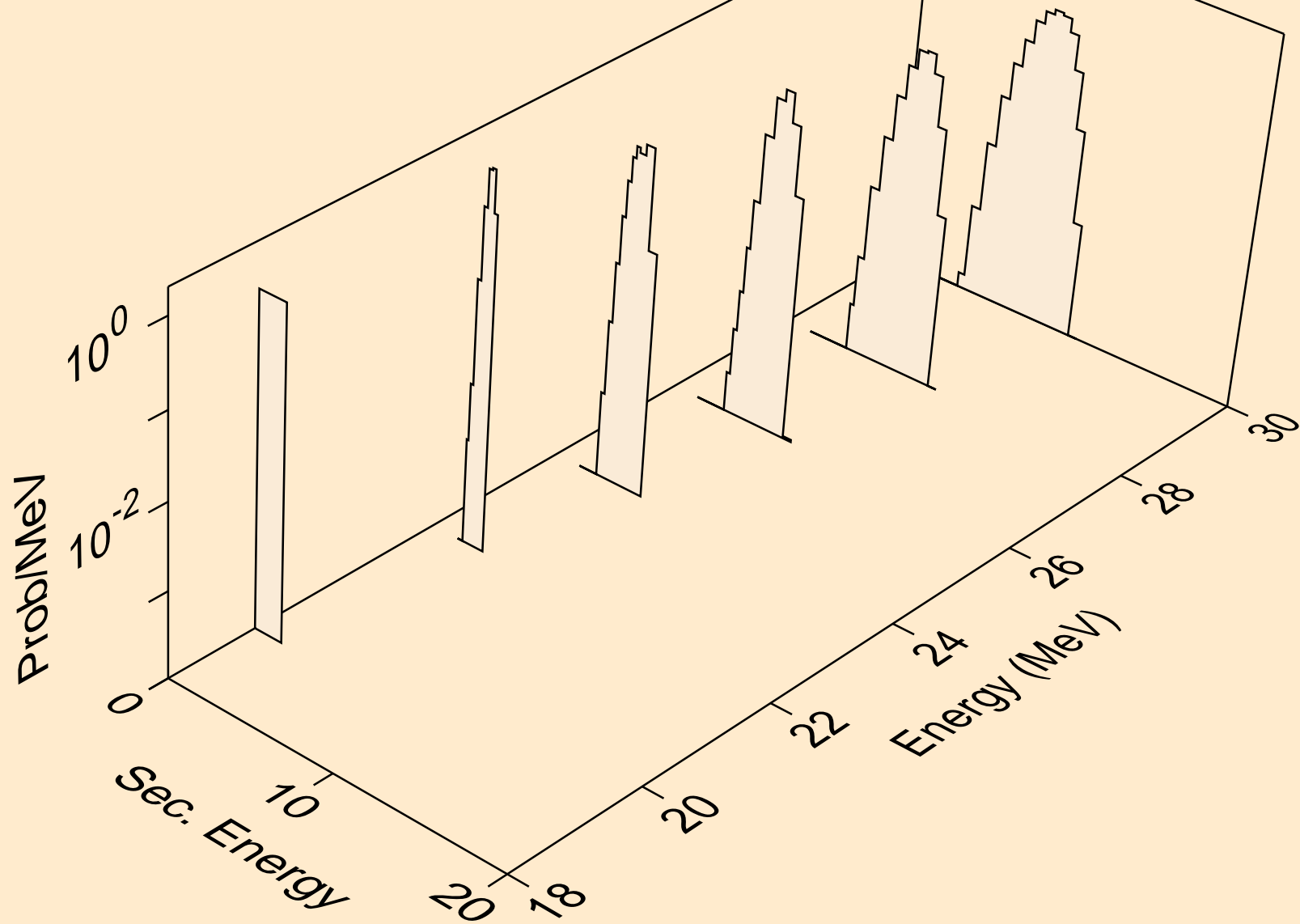
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protons from (n,pt)



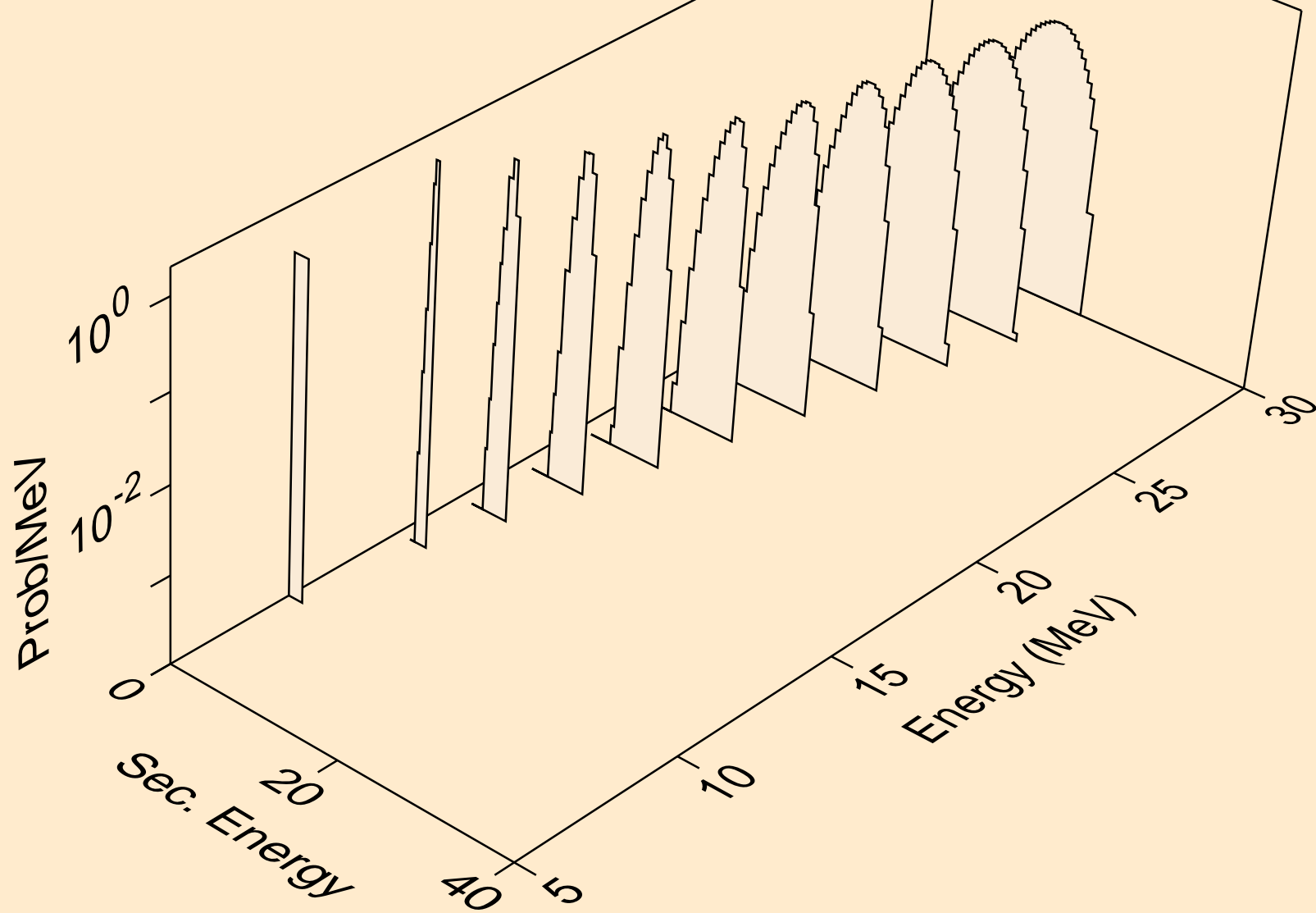
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deuterons from (n,x)



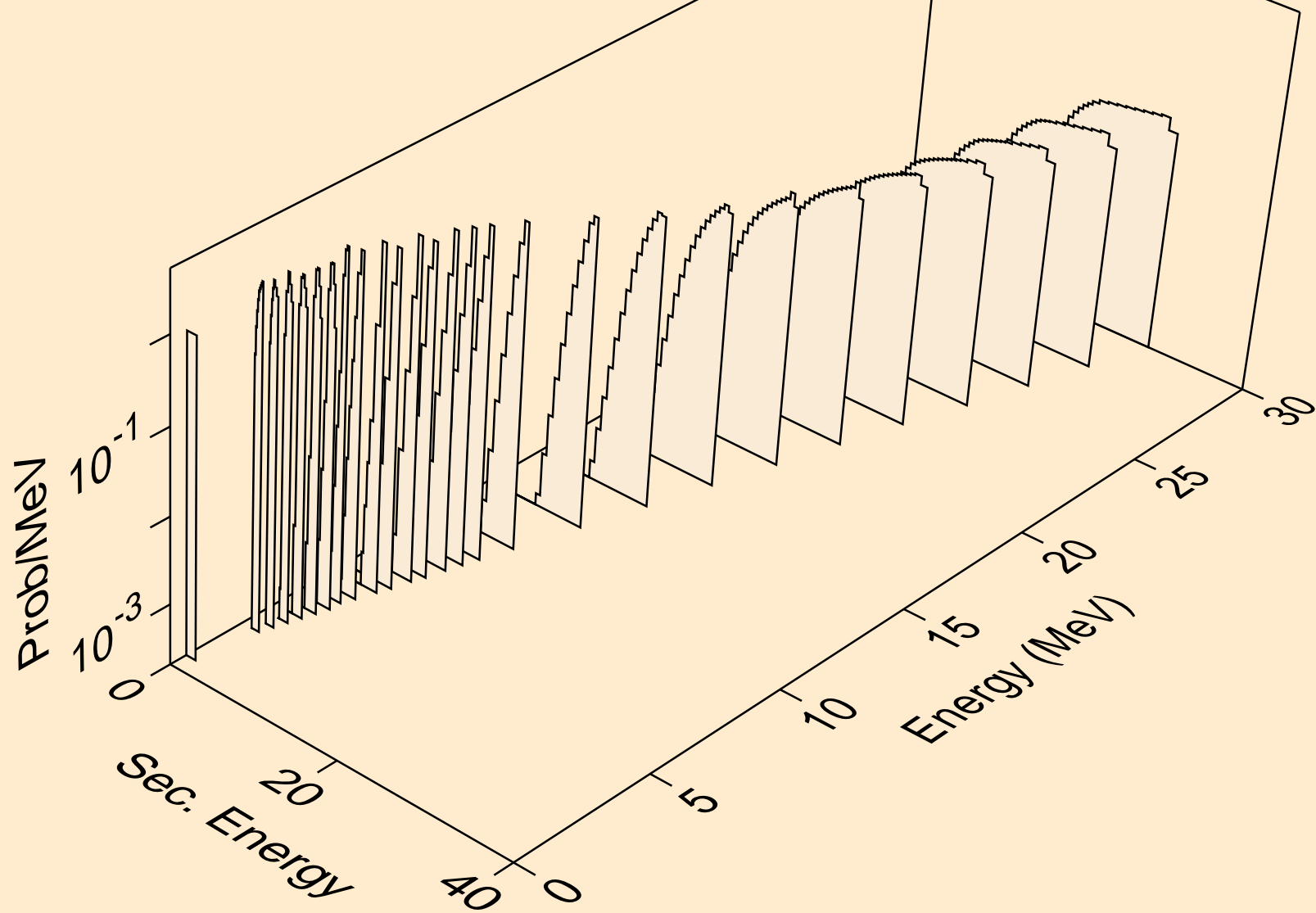
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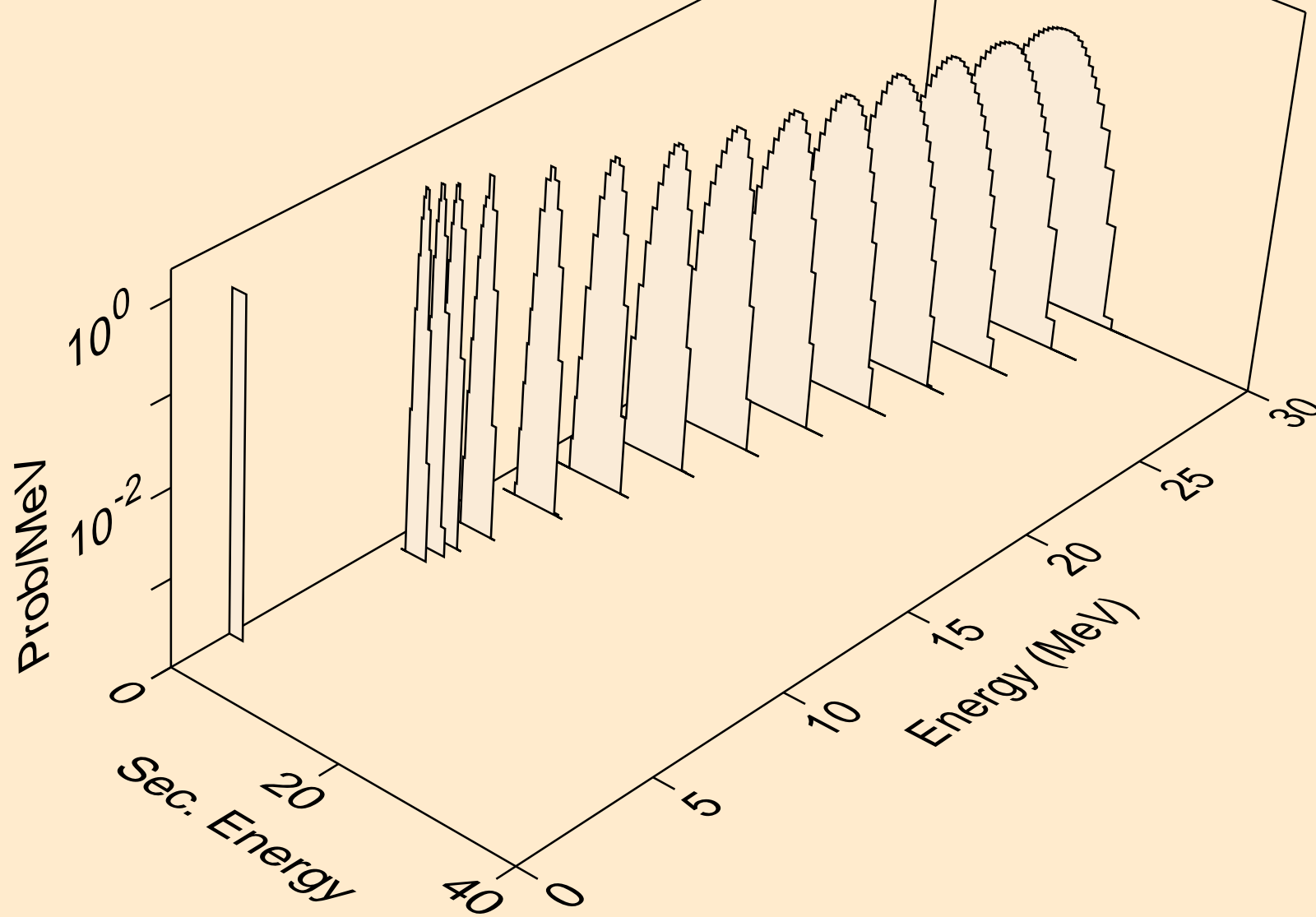
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deuterons from (n,n\*)d



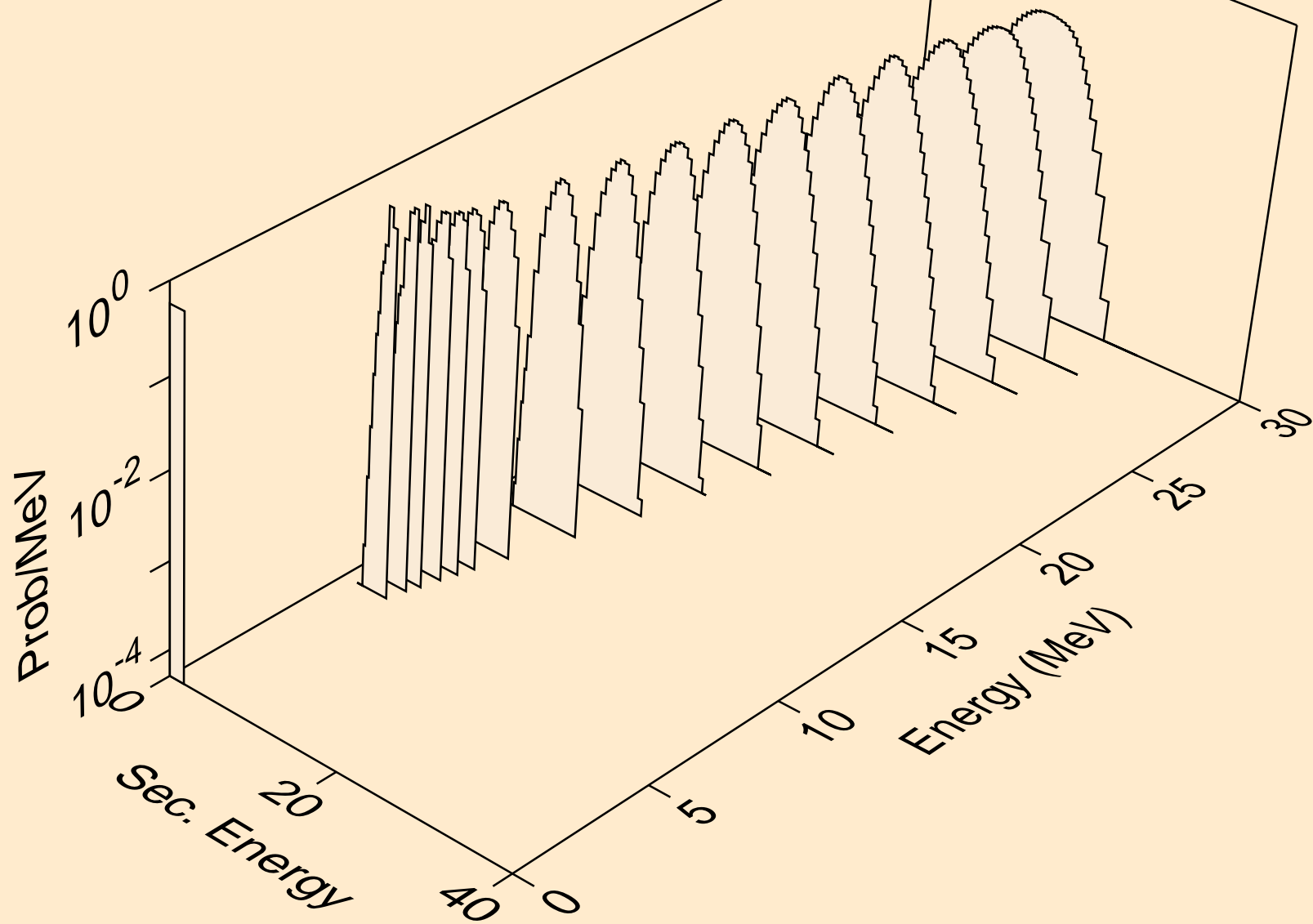
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deuterons from (n,d)



PB189 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
deuterons from (n,pd)

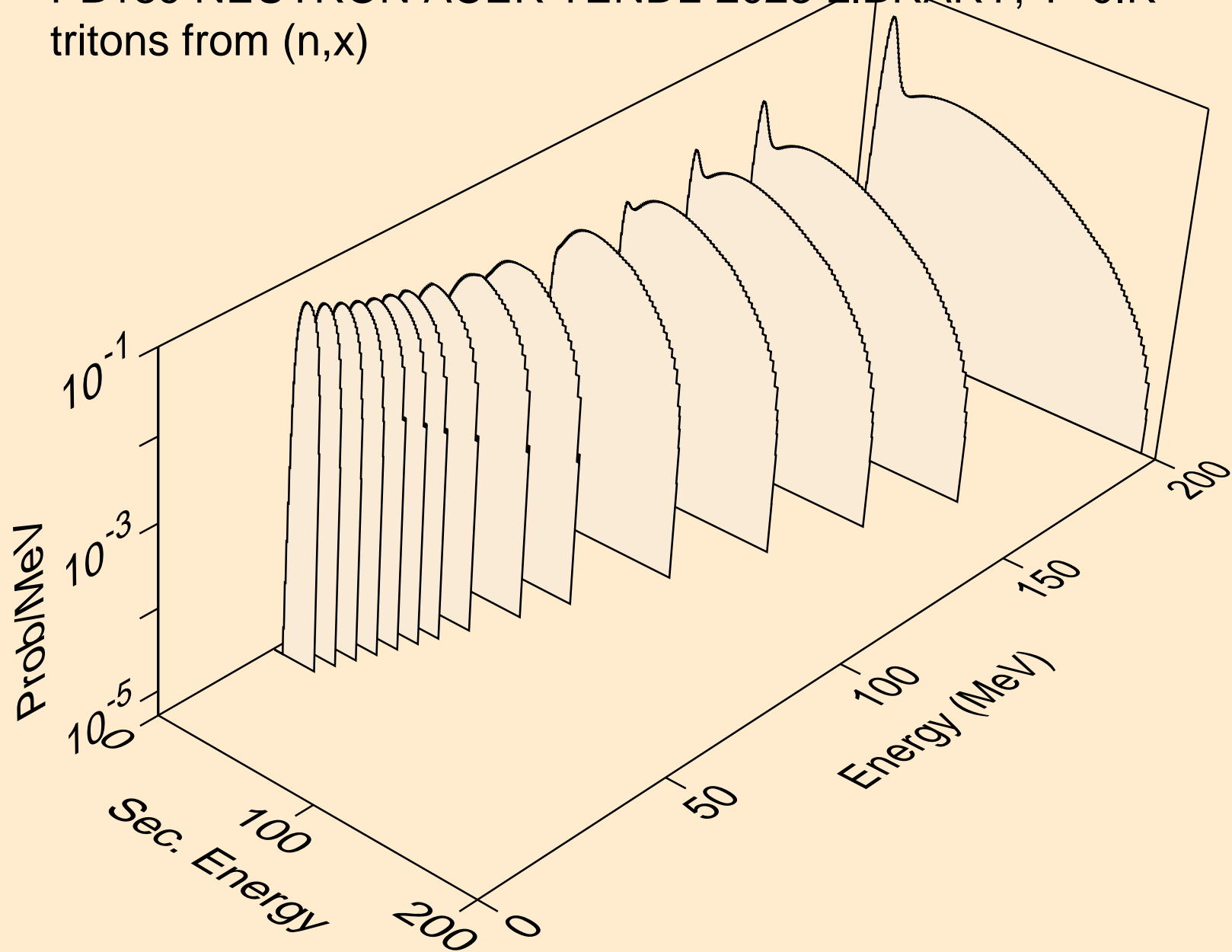


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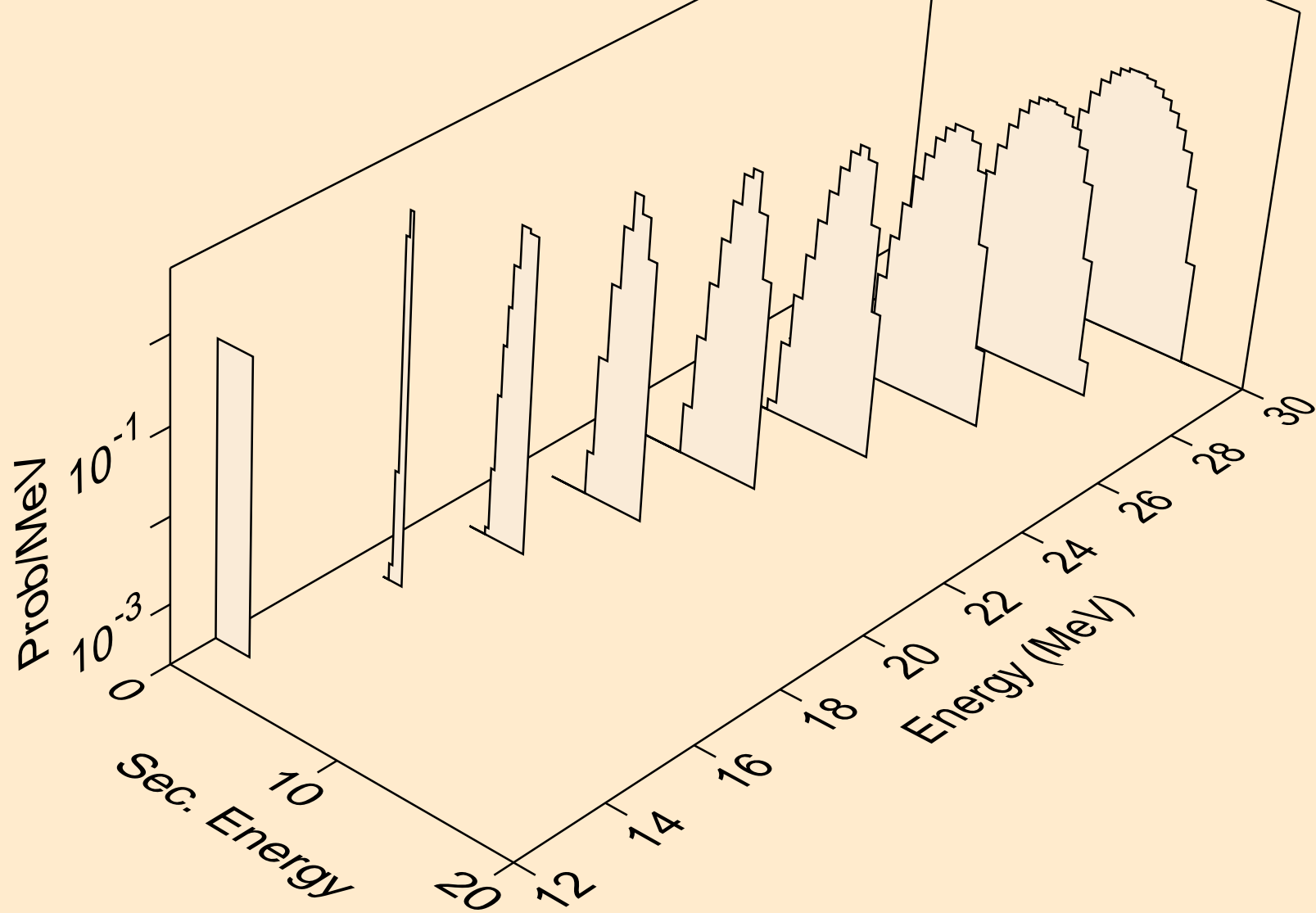




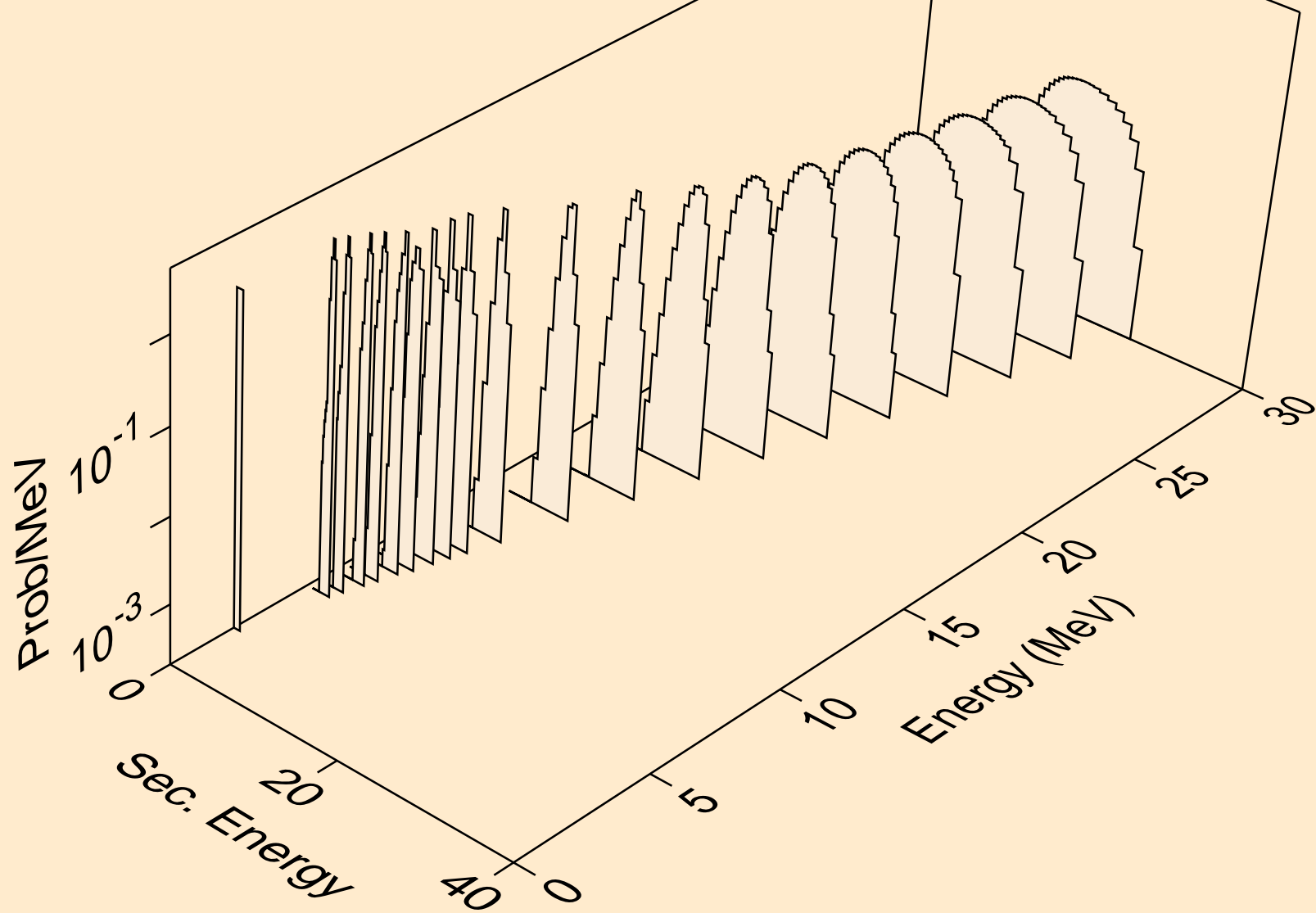
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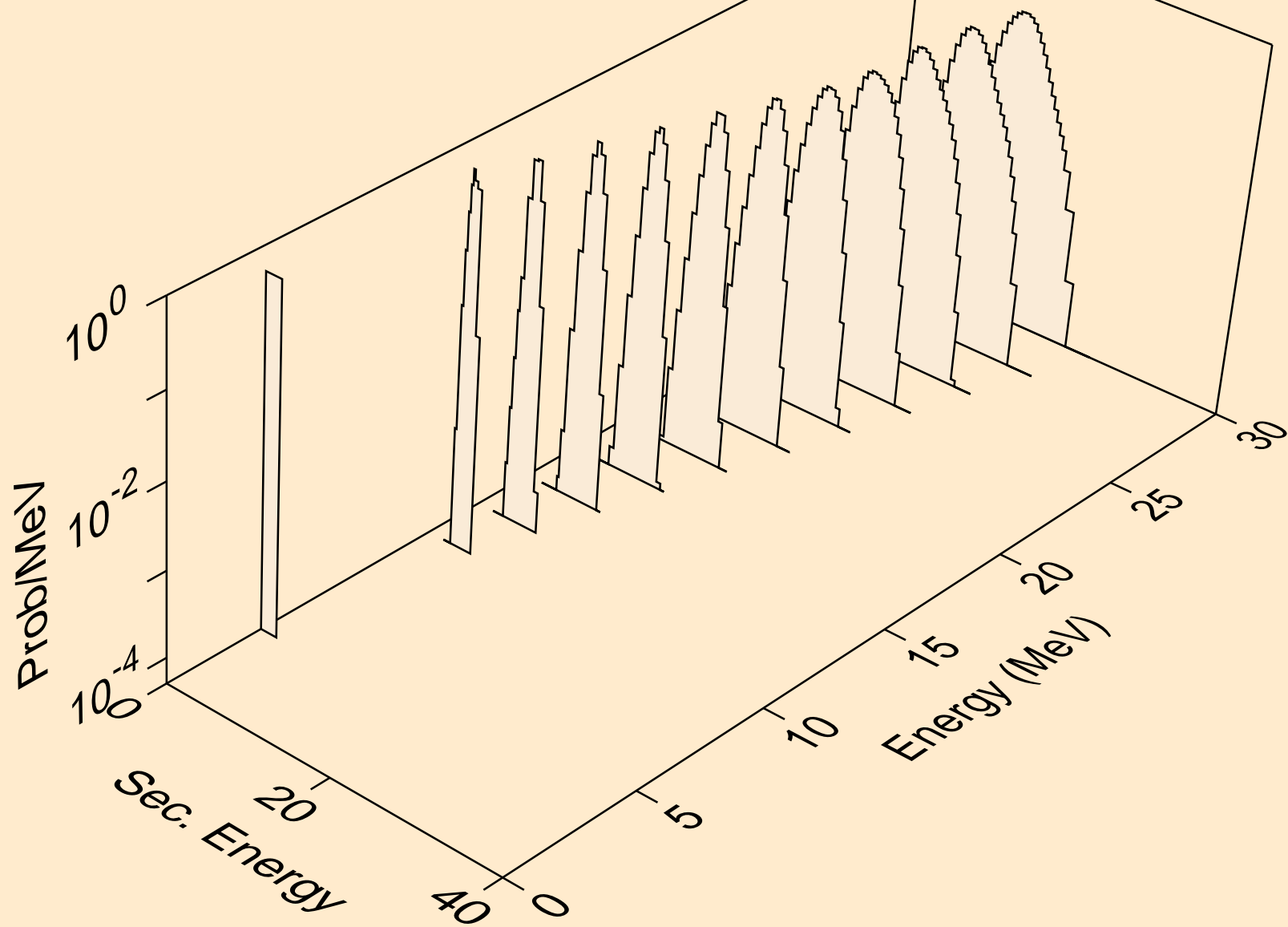
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tritons from (n,n\*)t



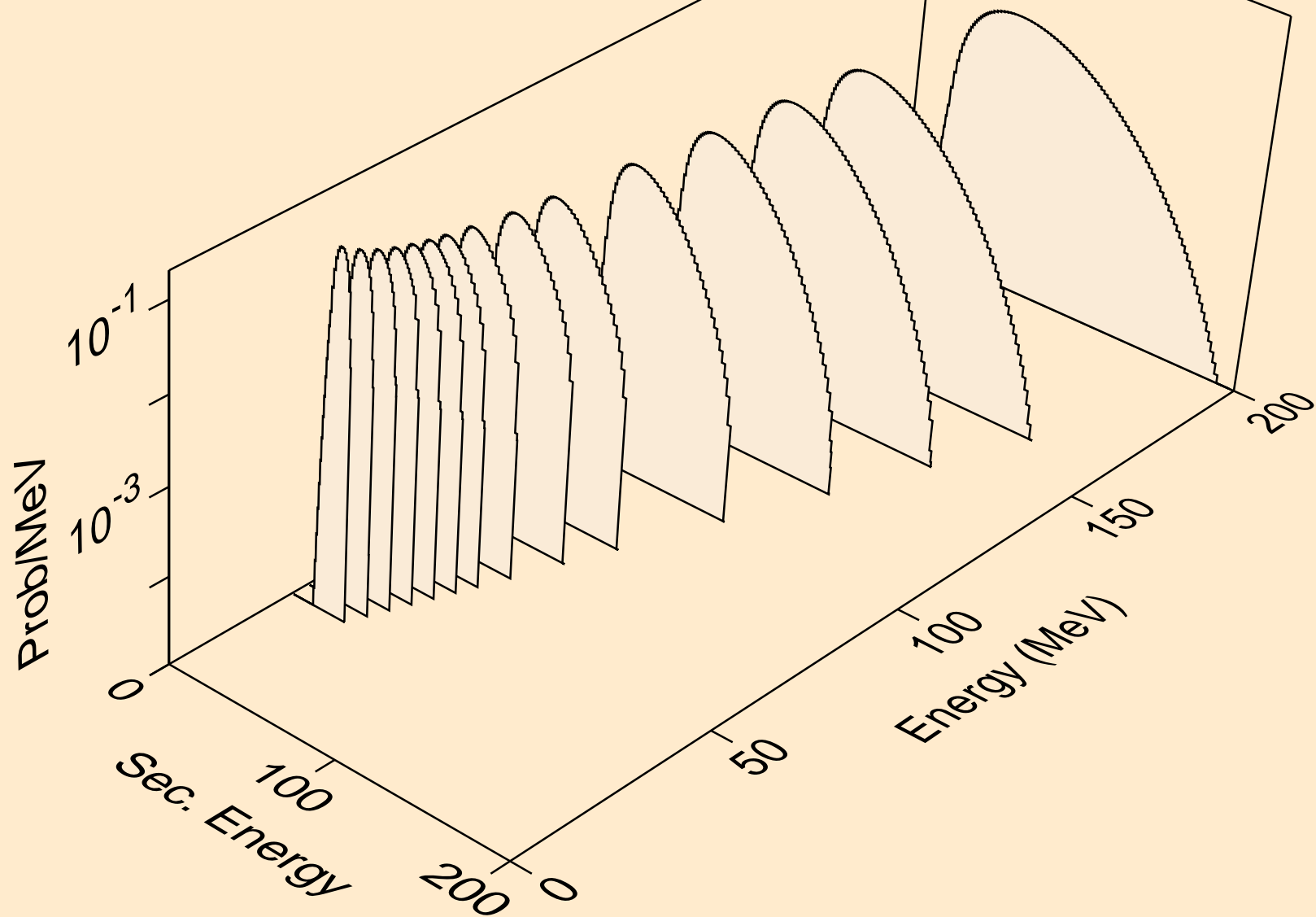
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tritons from (n,t)



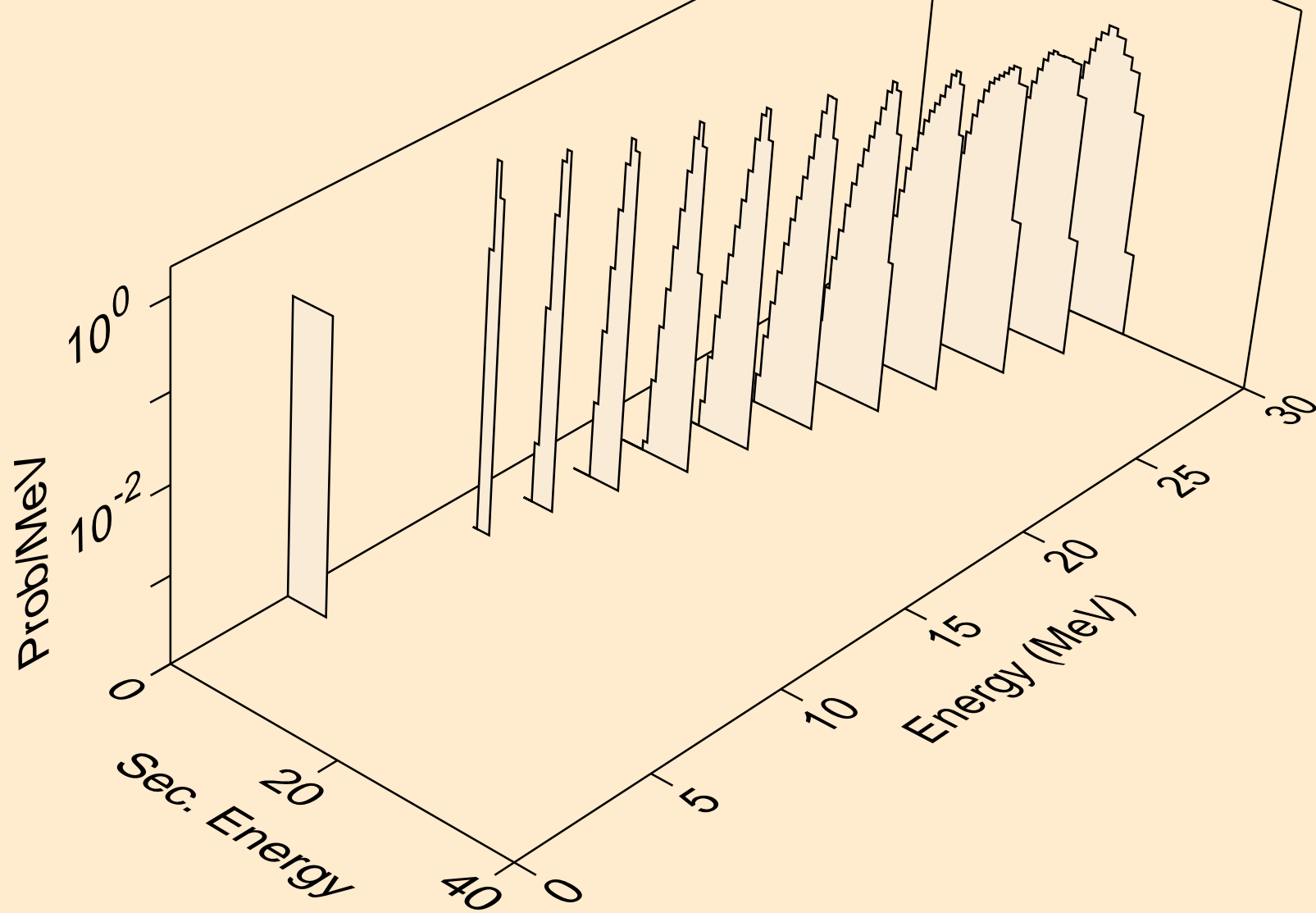
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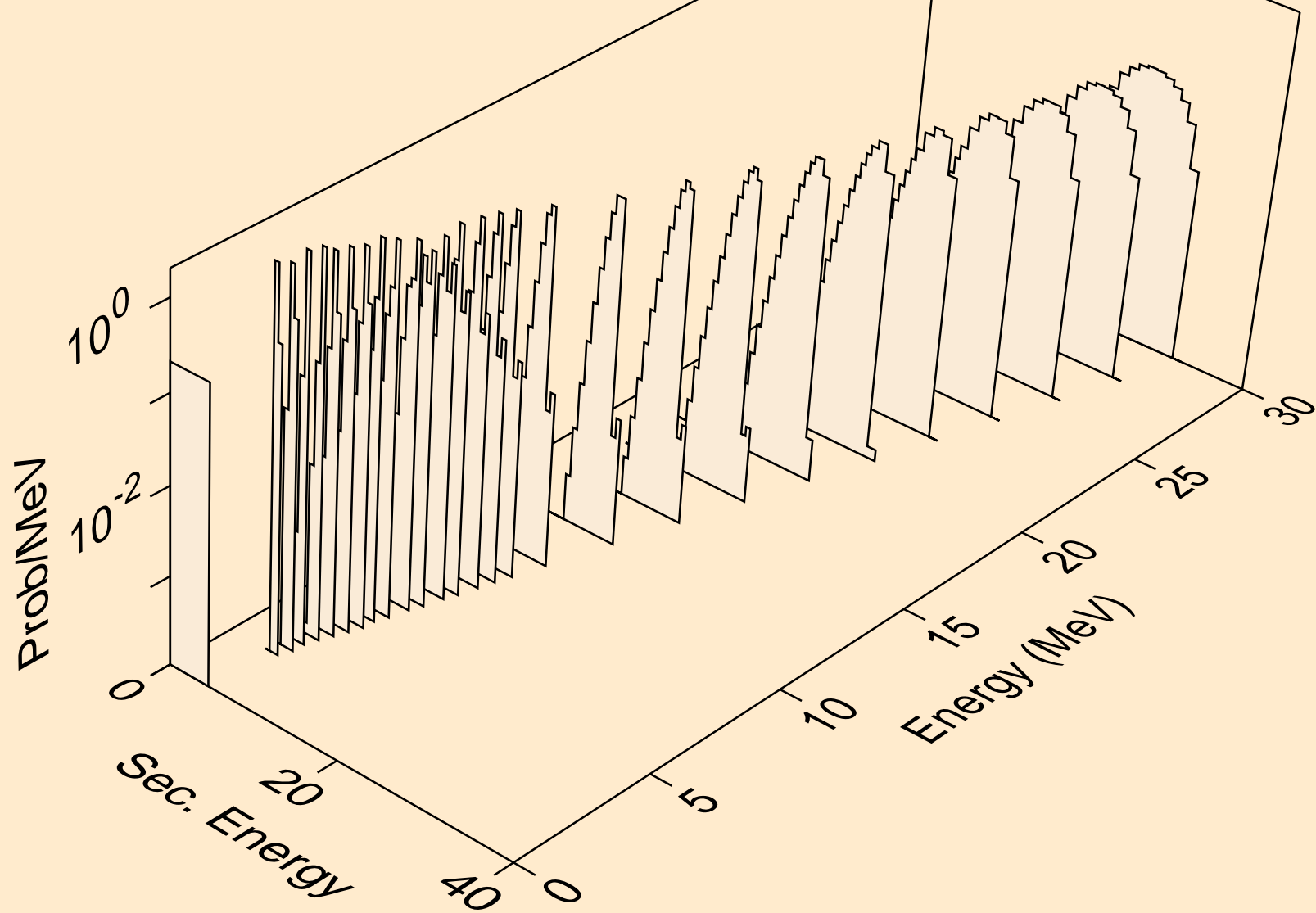
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he3s from (n,x)



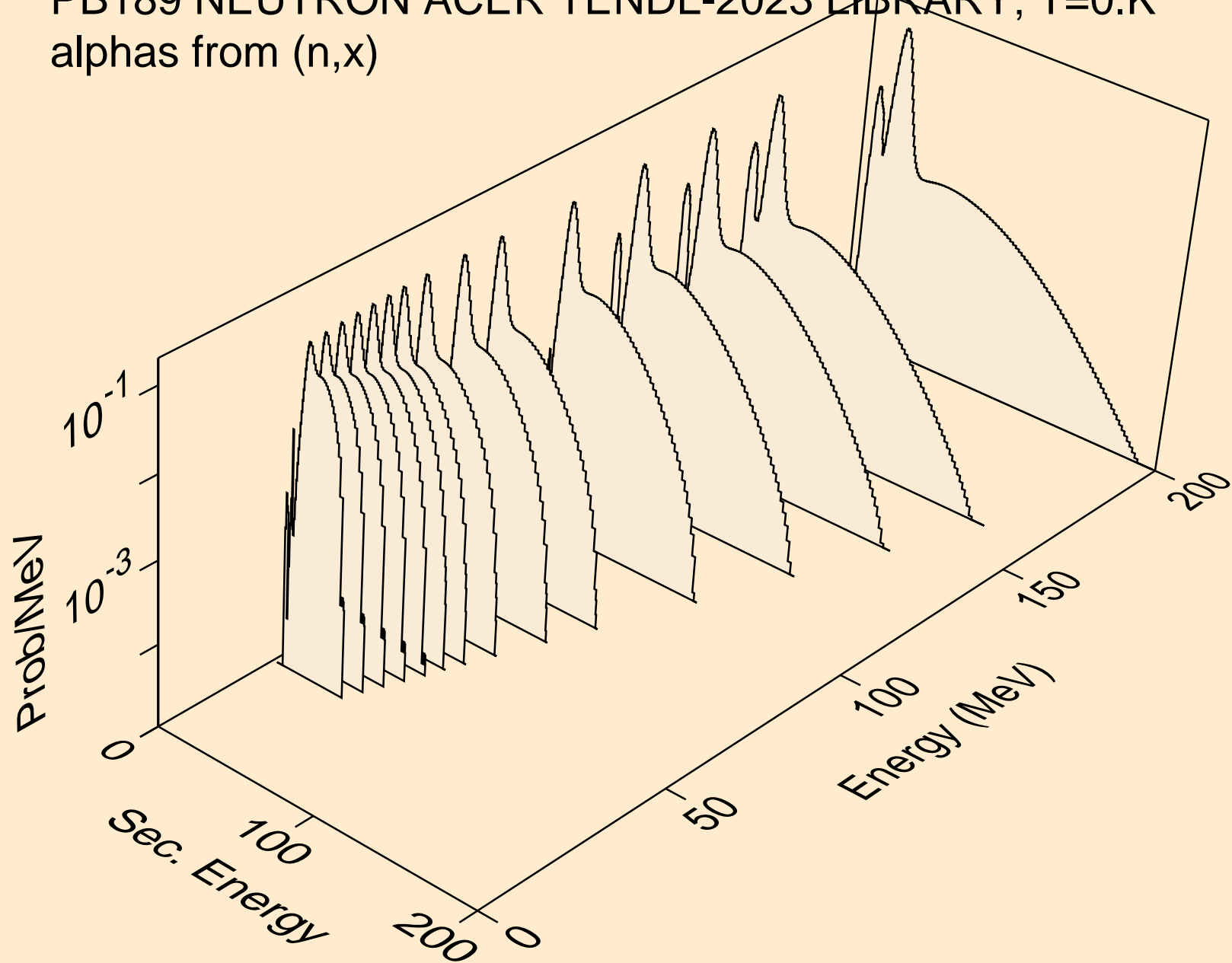
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he3s from (n,n\*)he3



PB189 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
he3s from (n,he3)

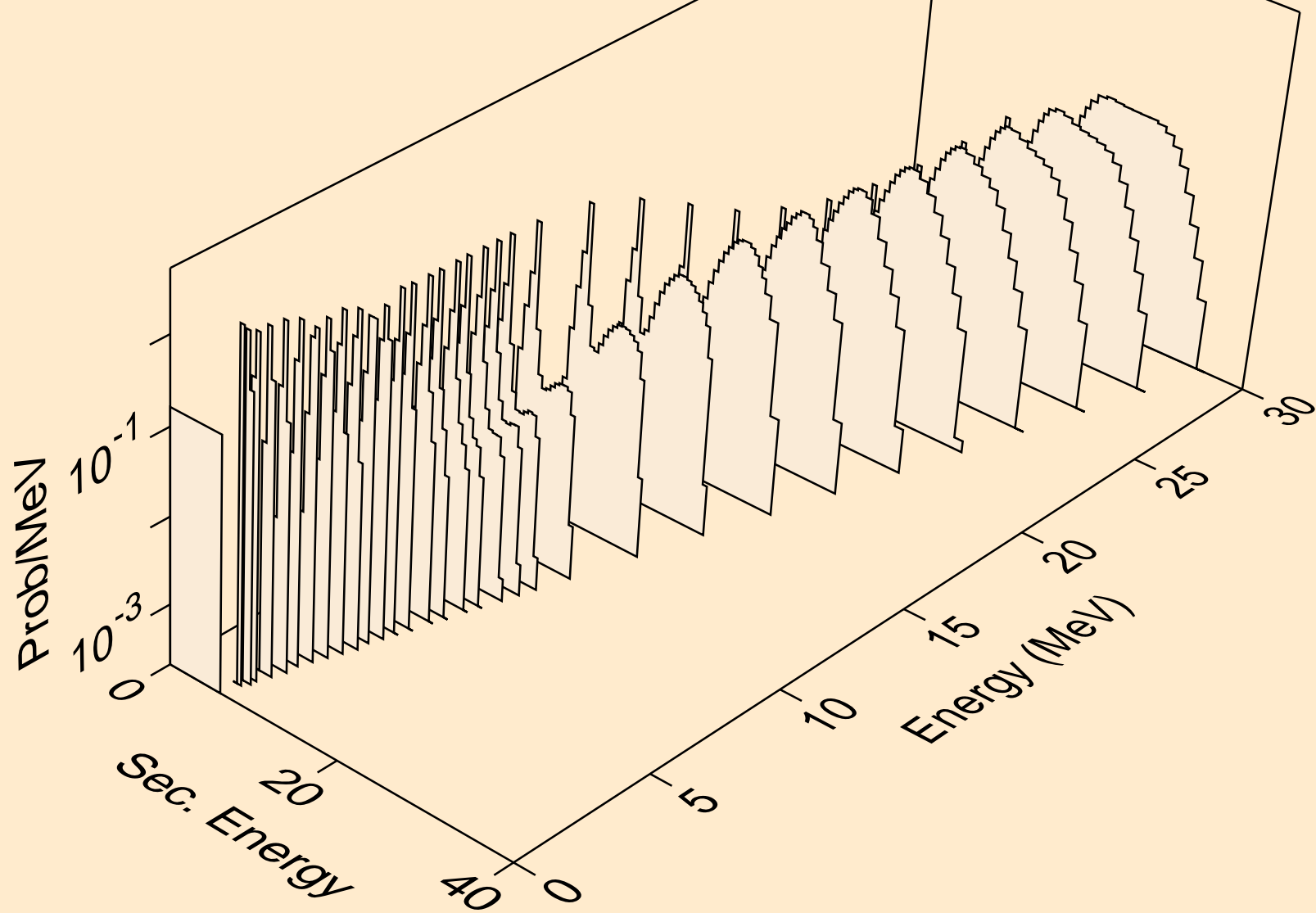


PB189 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,x)

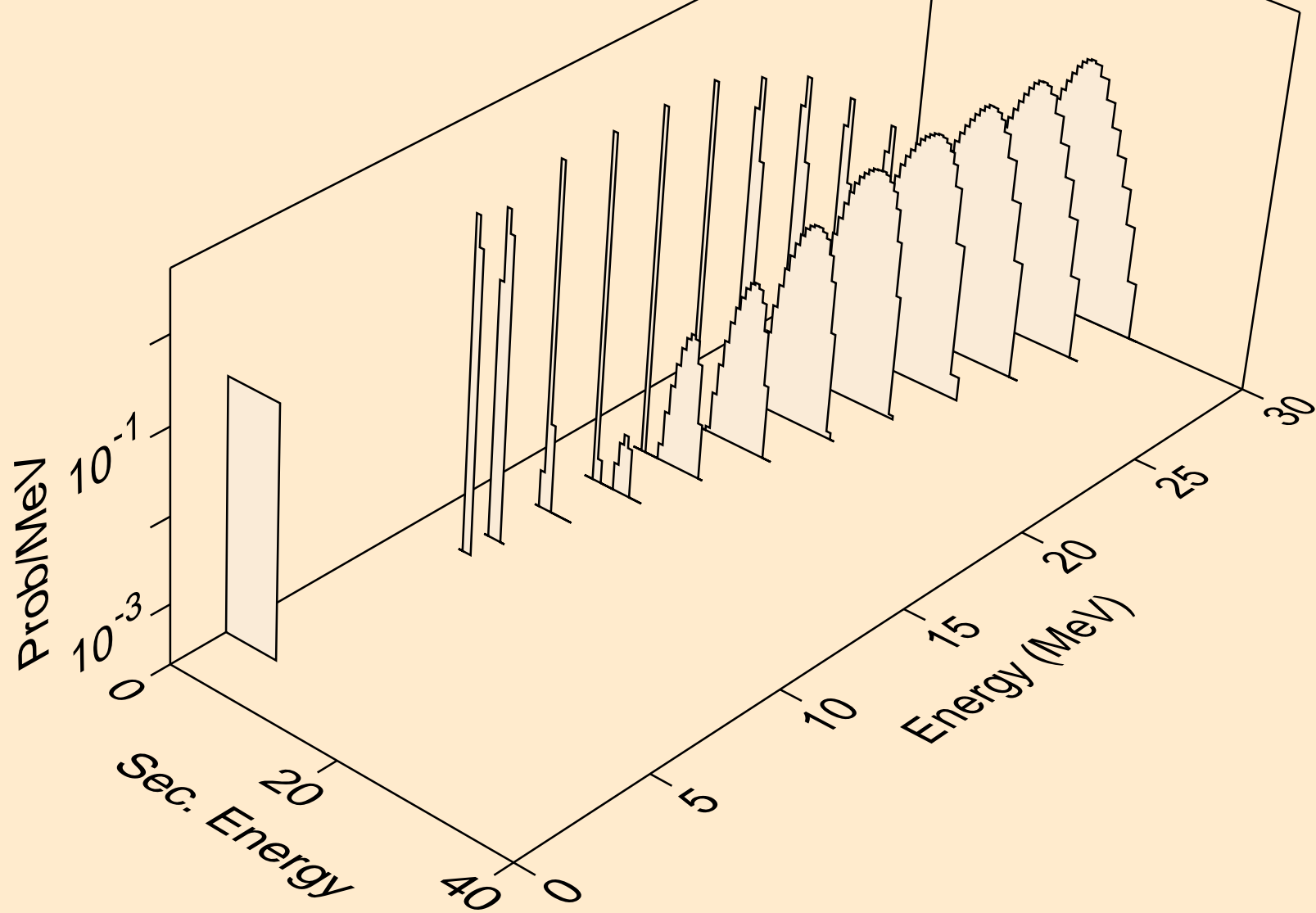




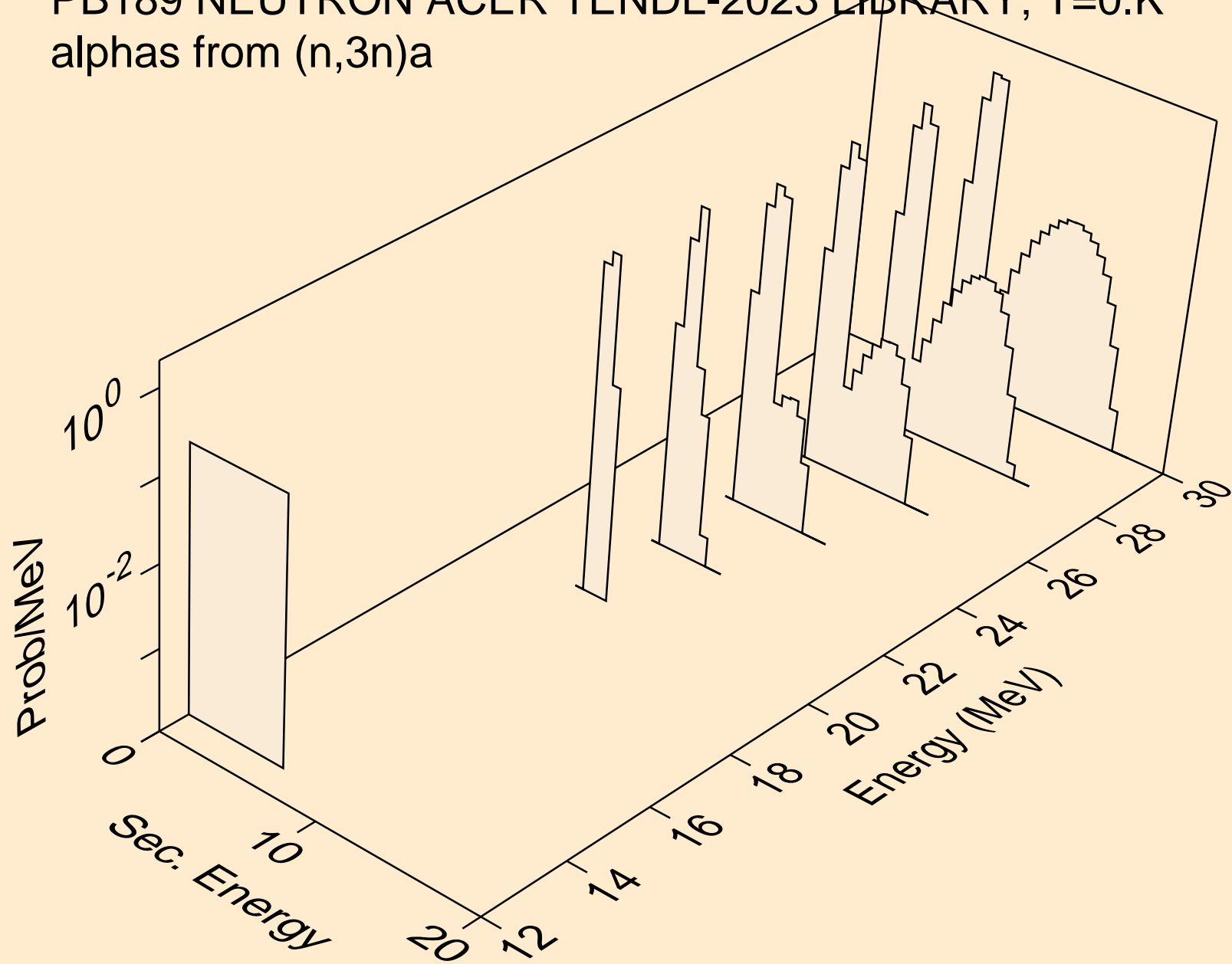
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alphas from (n,n\*)a



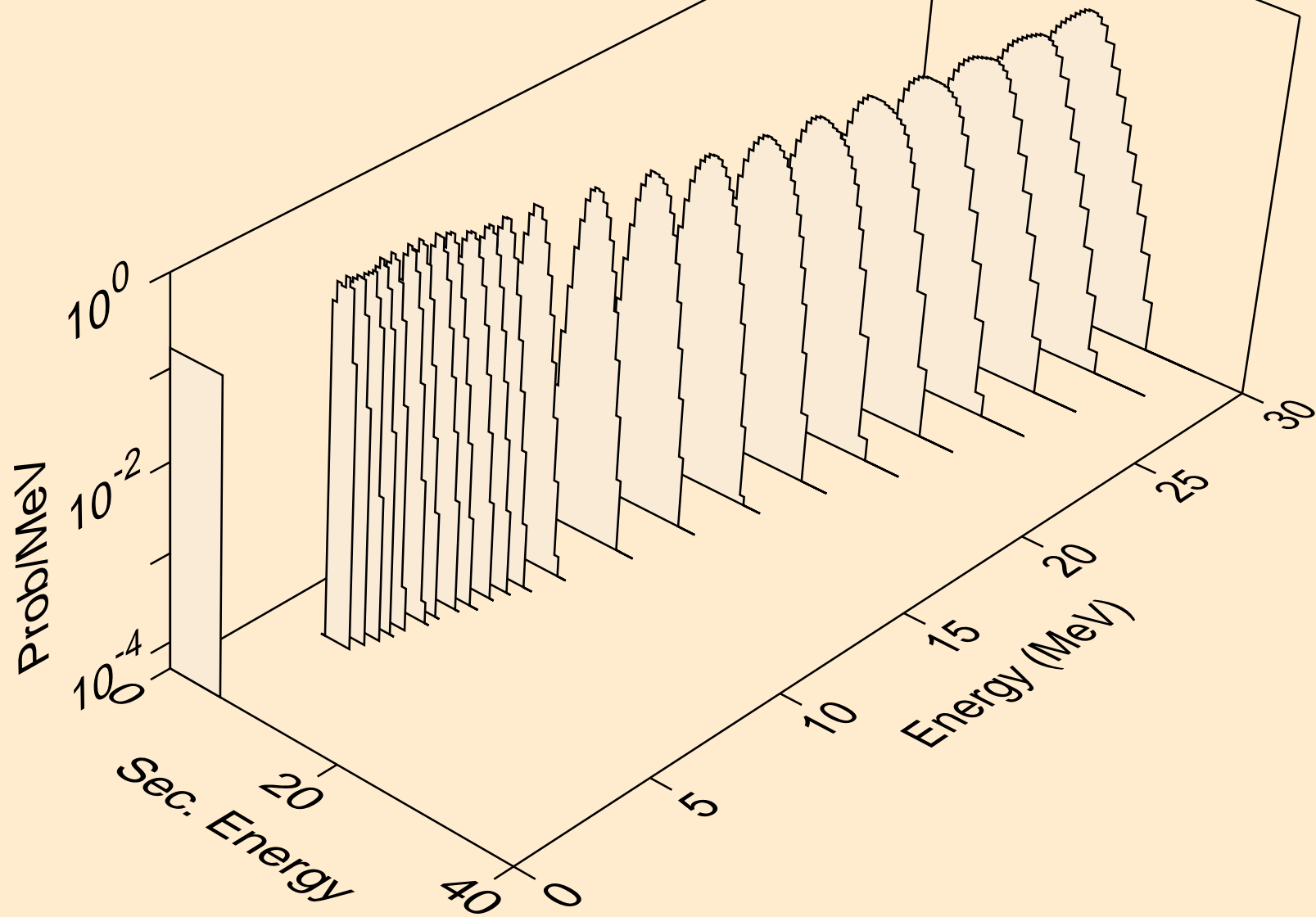
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alphas from (n,2n)a



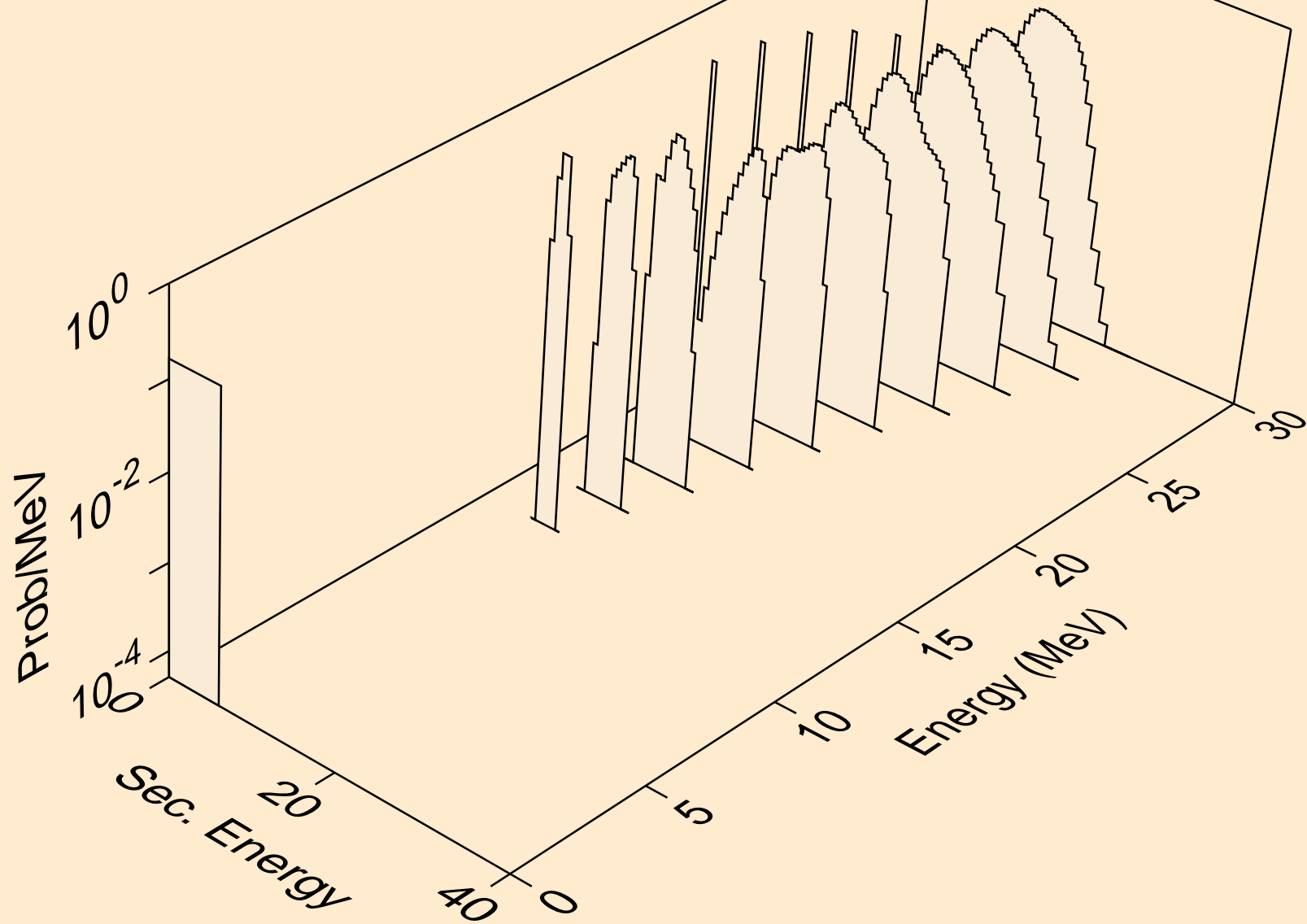
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alphas from (n,3n)a



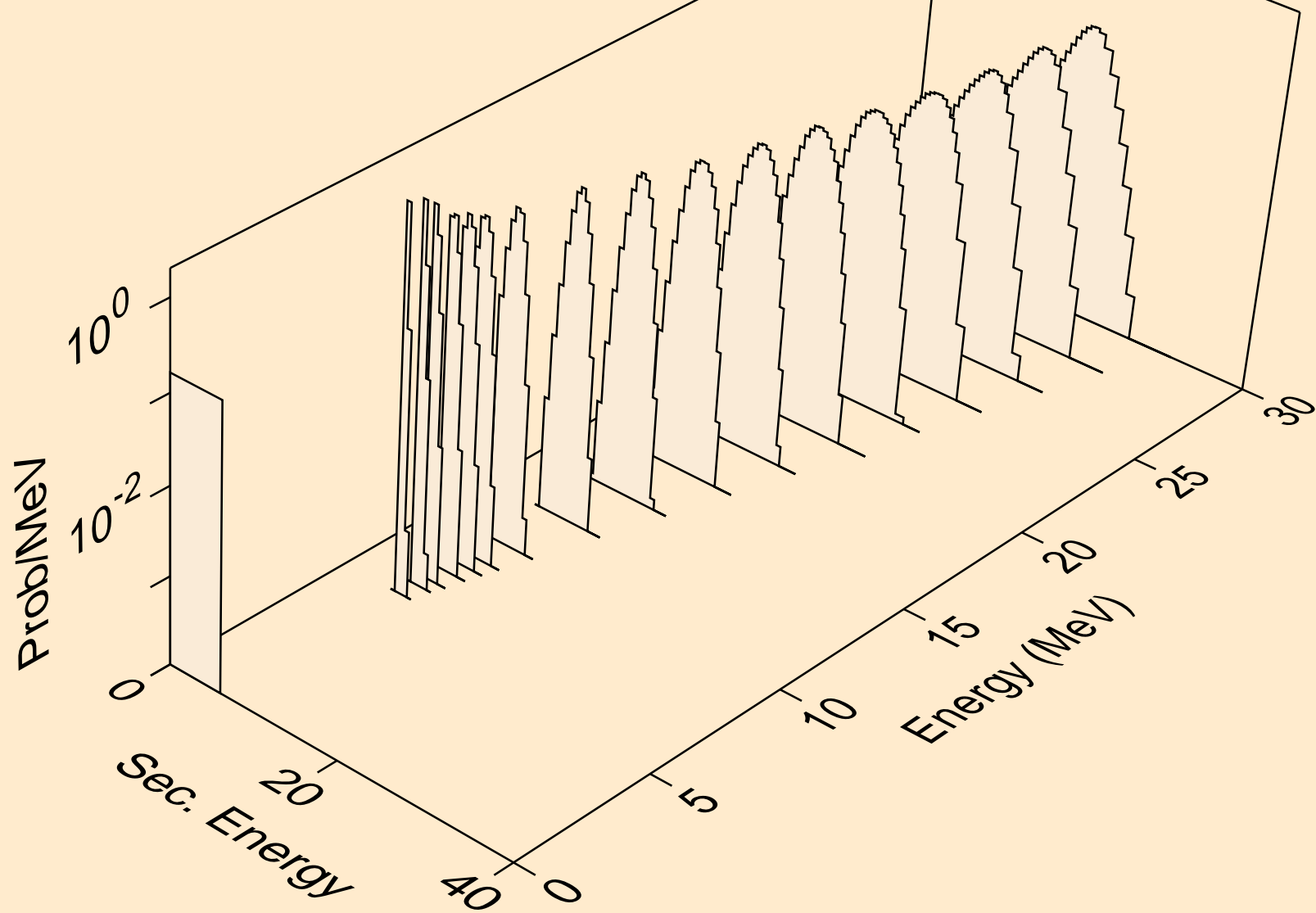
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alphas from (n,n\*)2a



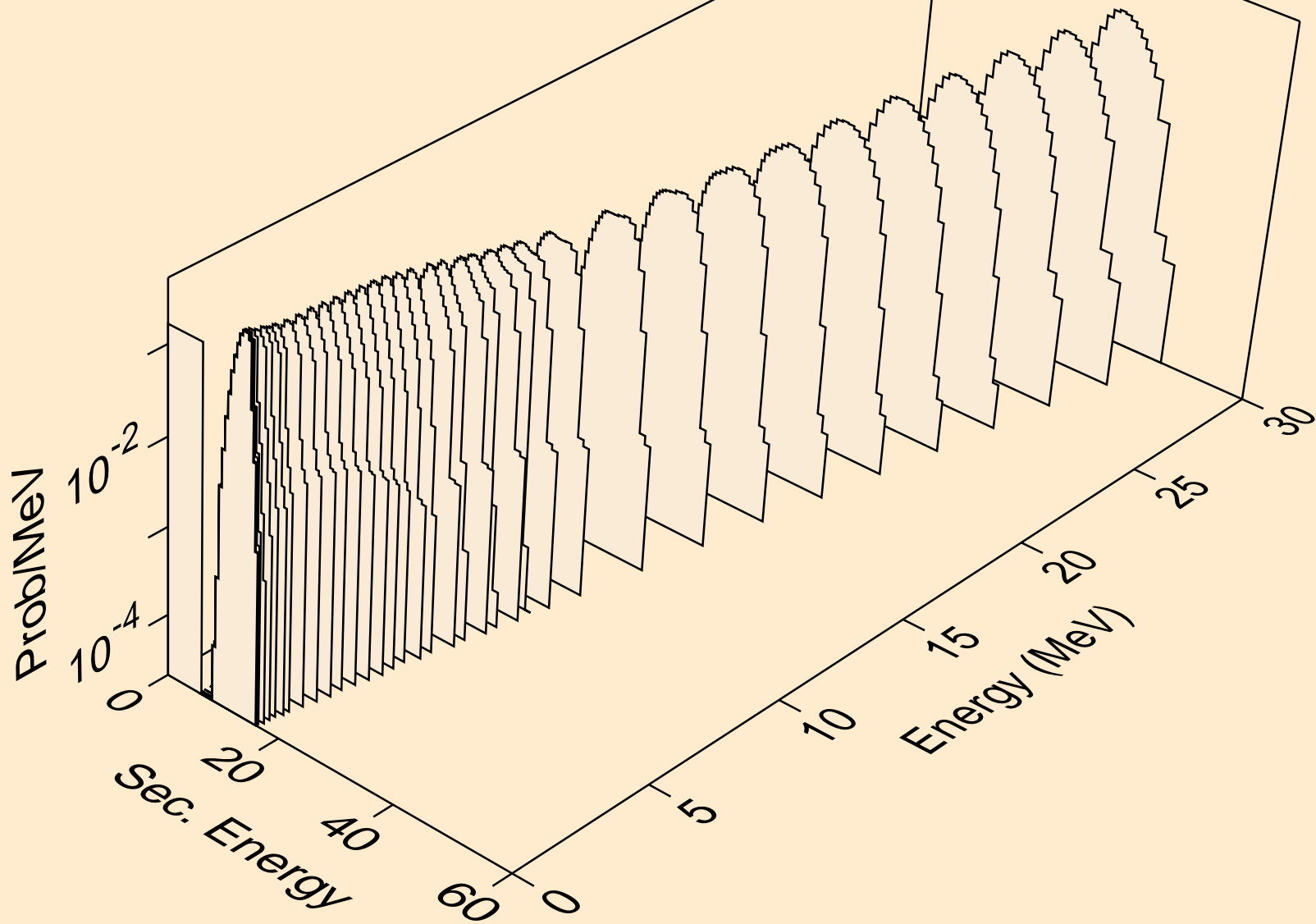
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alphas from (n,2n)2a



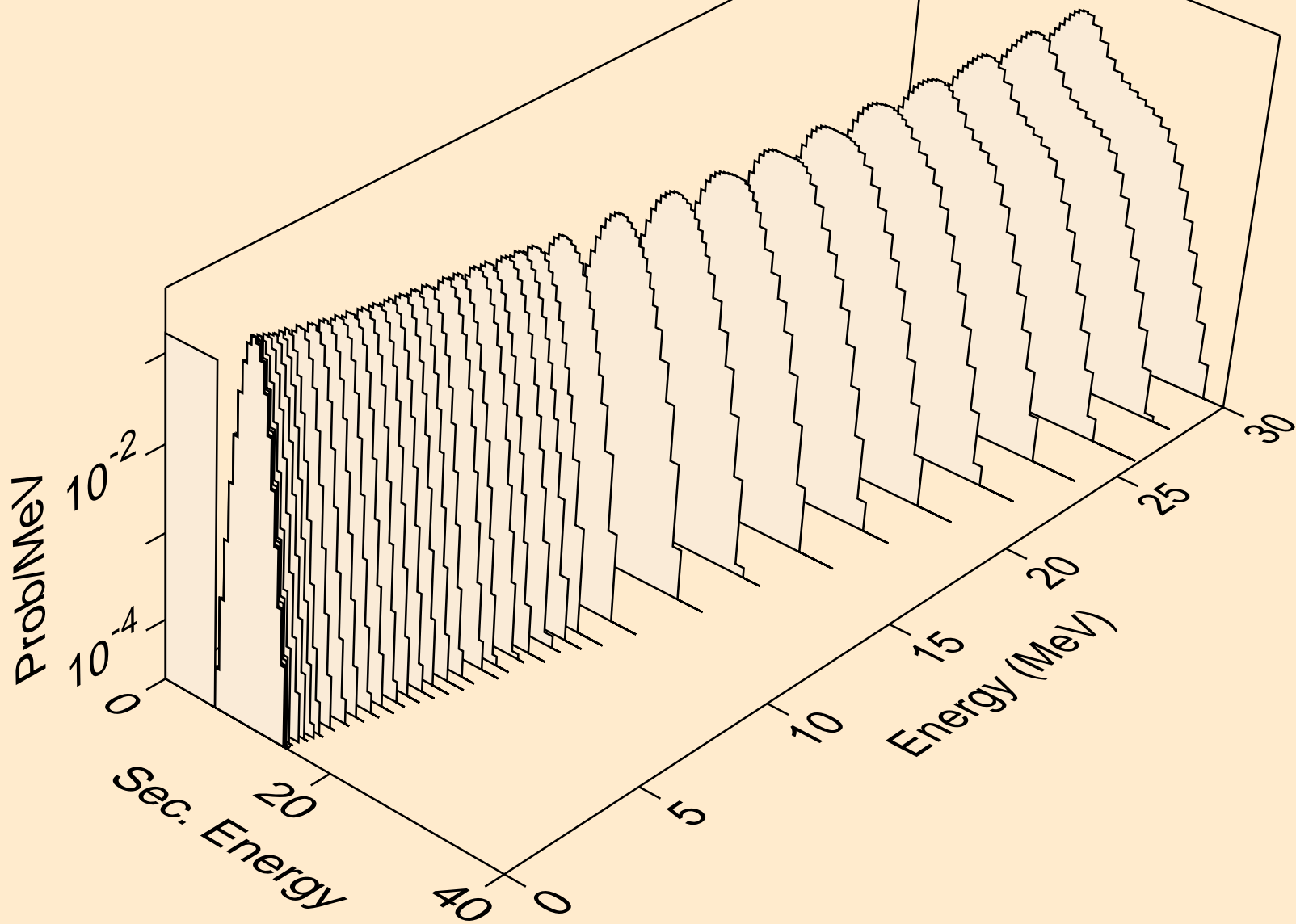
PB189 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,npa)



PB189 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,a)

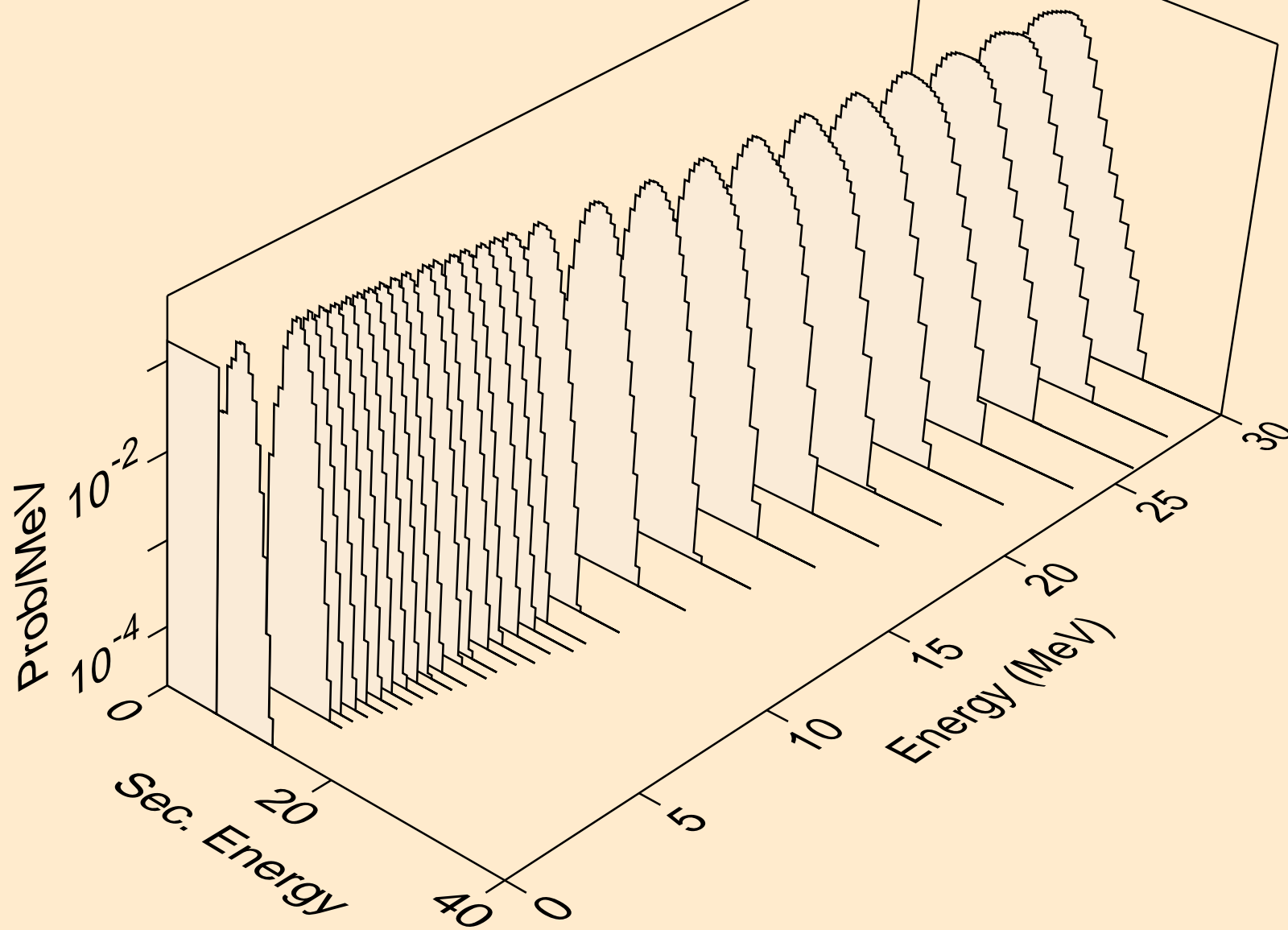


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alphas from (n,2a)

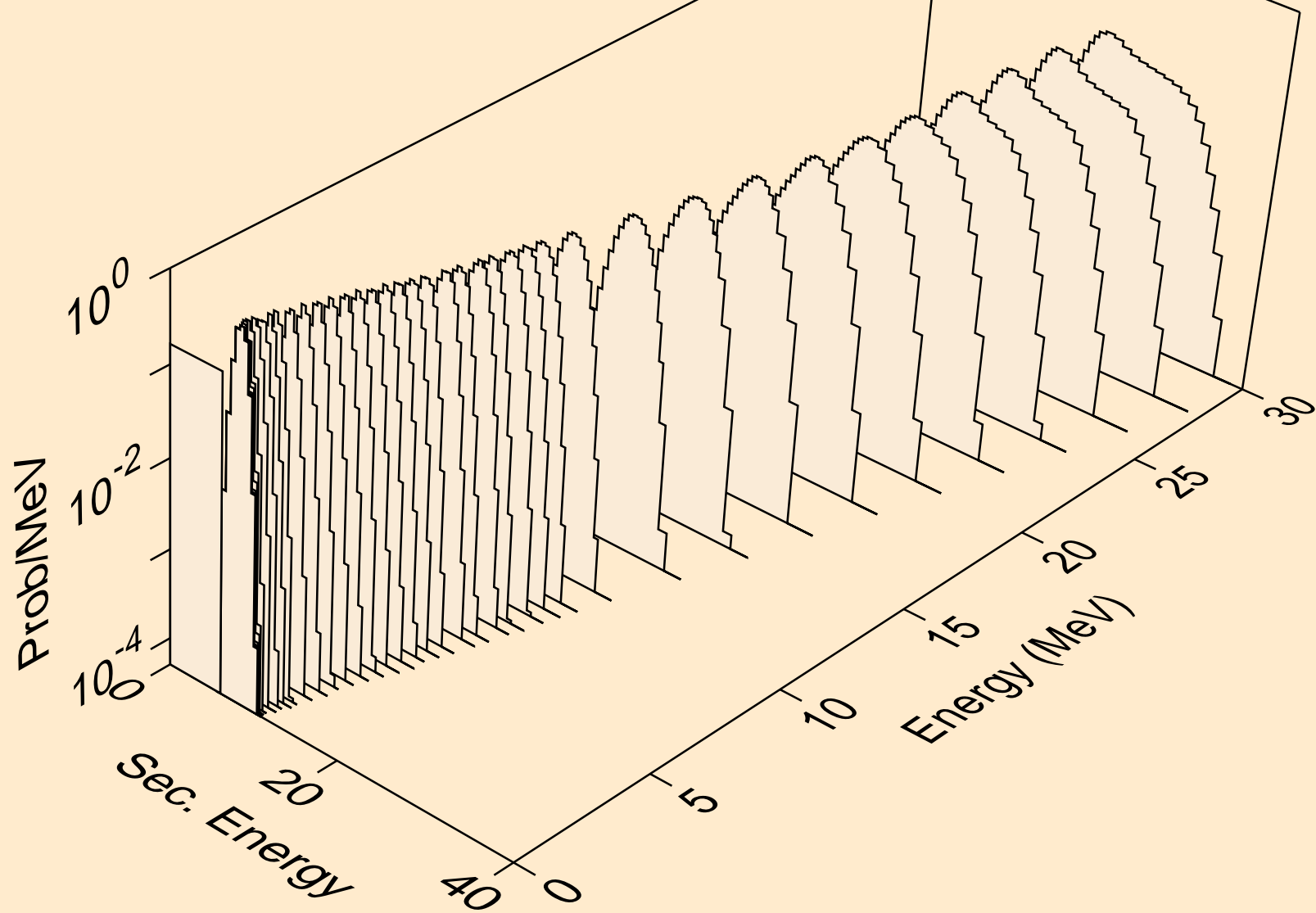




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alphas from (n,3a)



PB189 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,pa)



PB189 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,da)

