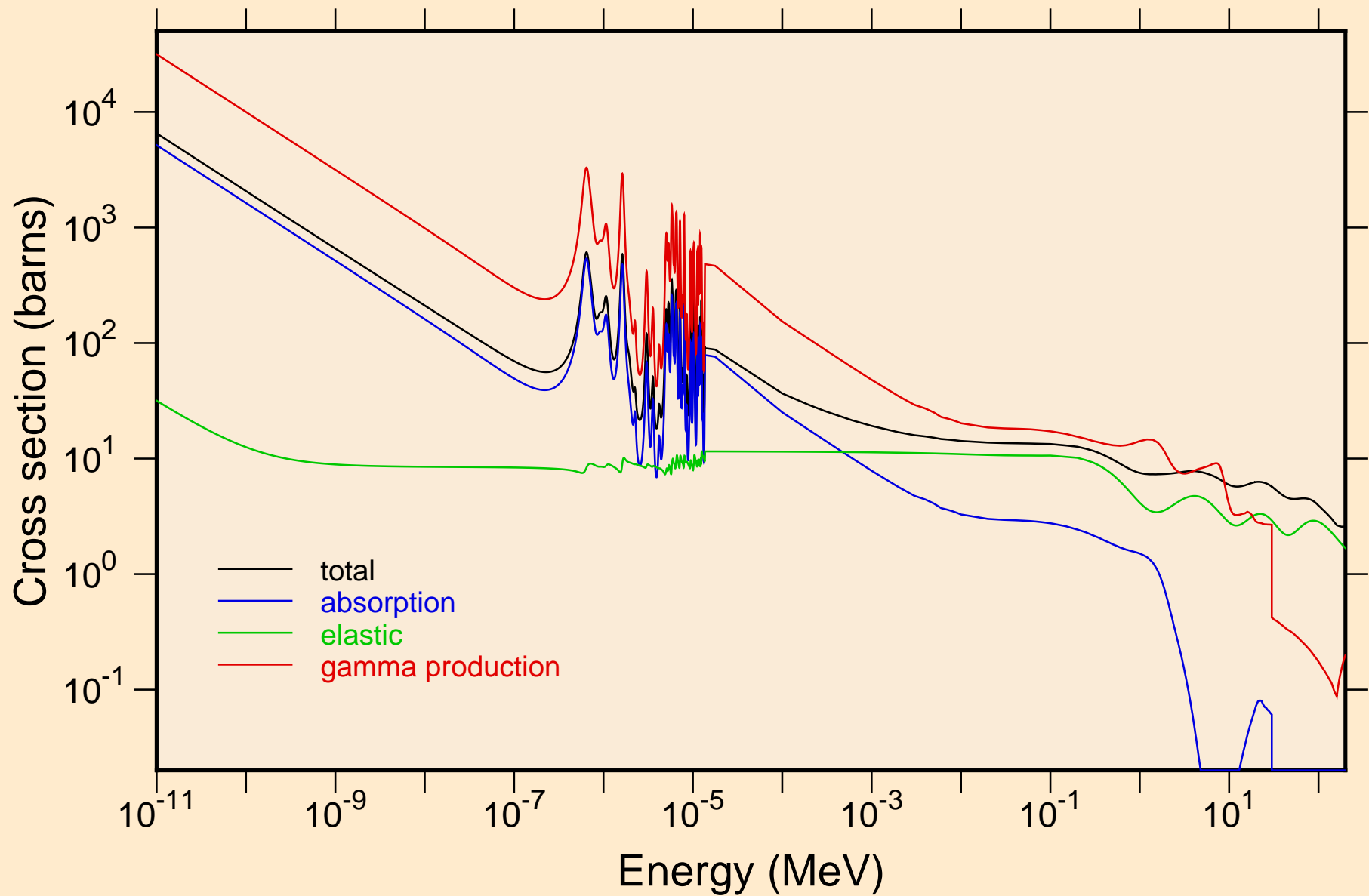
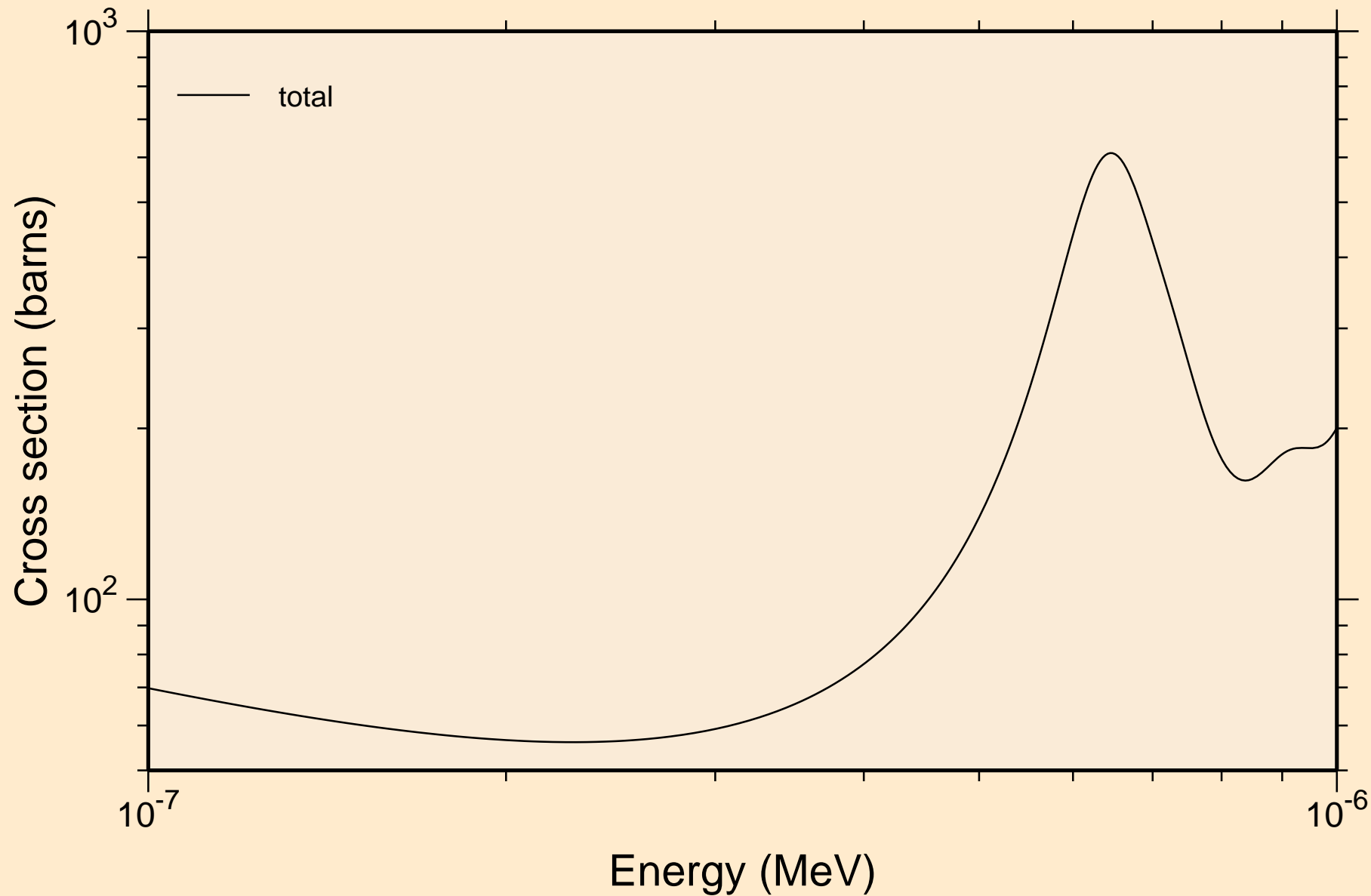


# MD247 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K

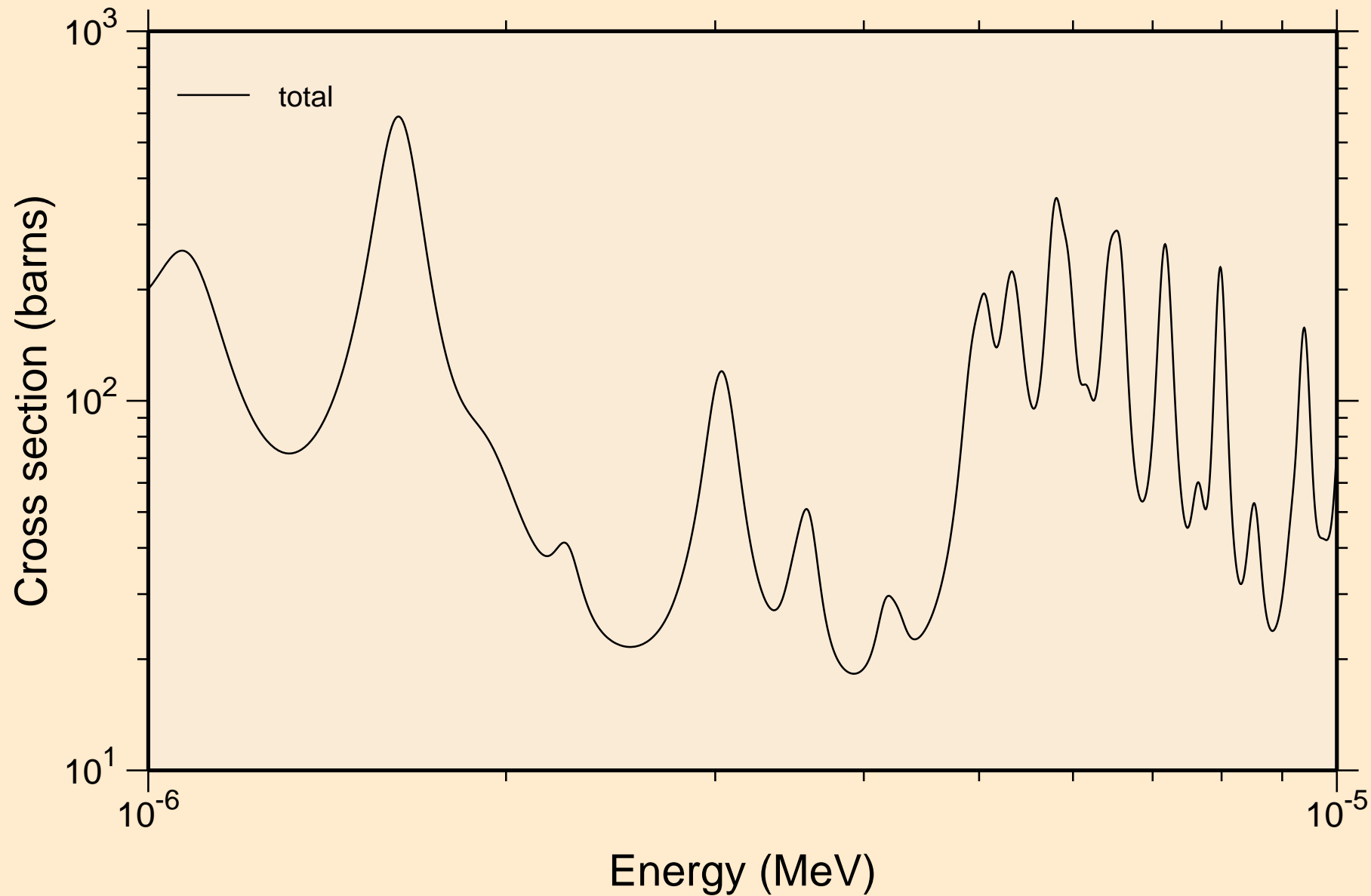
## Principal cross sections



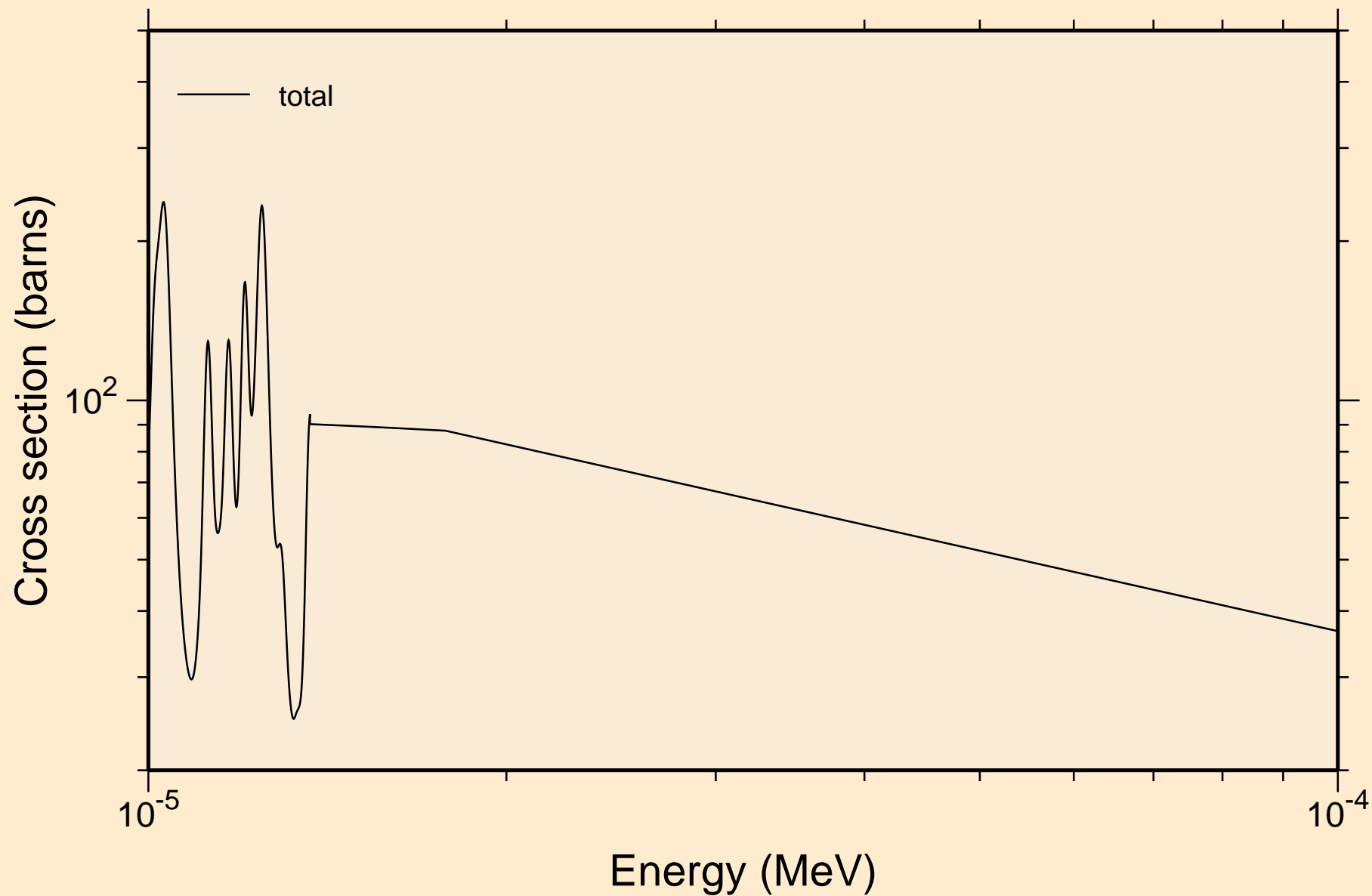
MD247 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
resonance total cross section



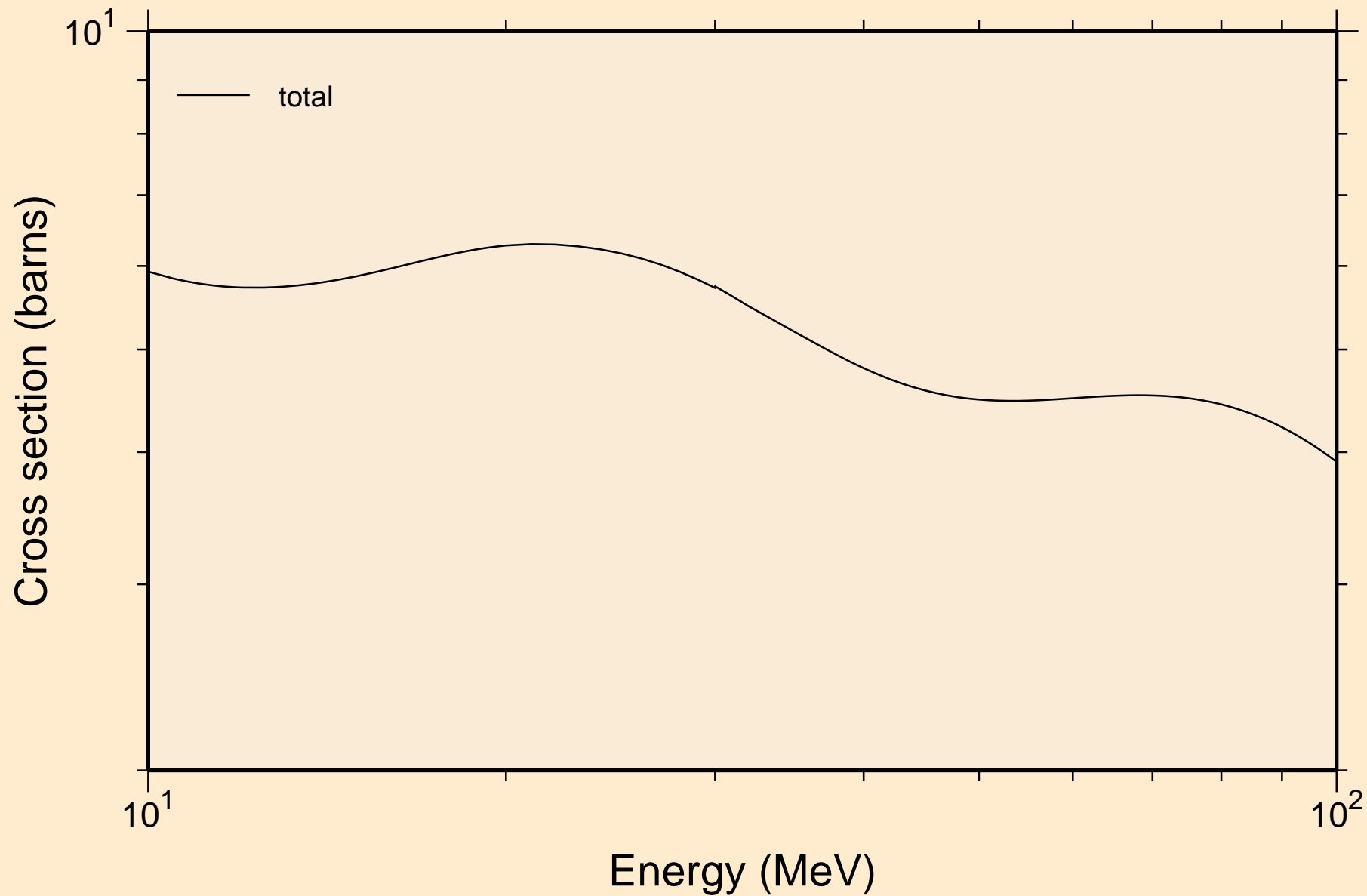
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resonance total cross section



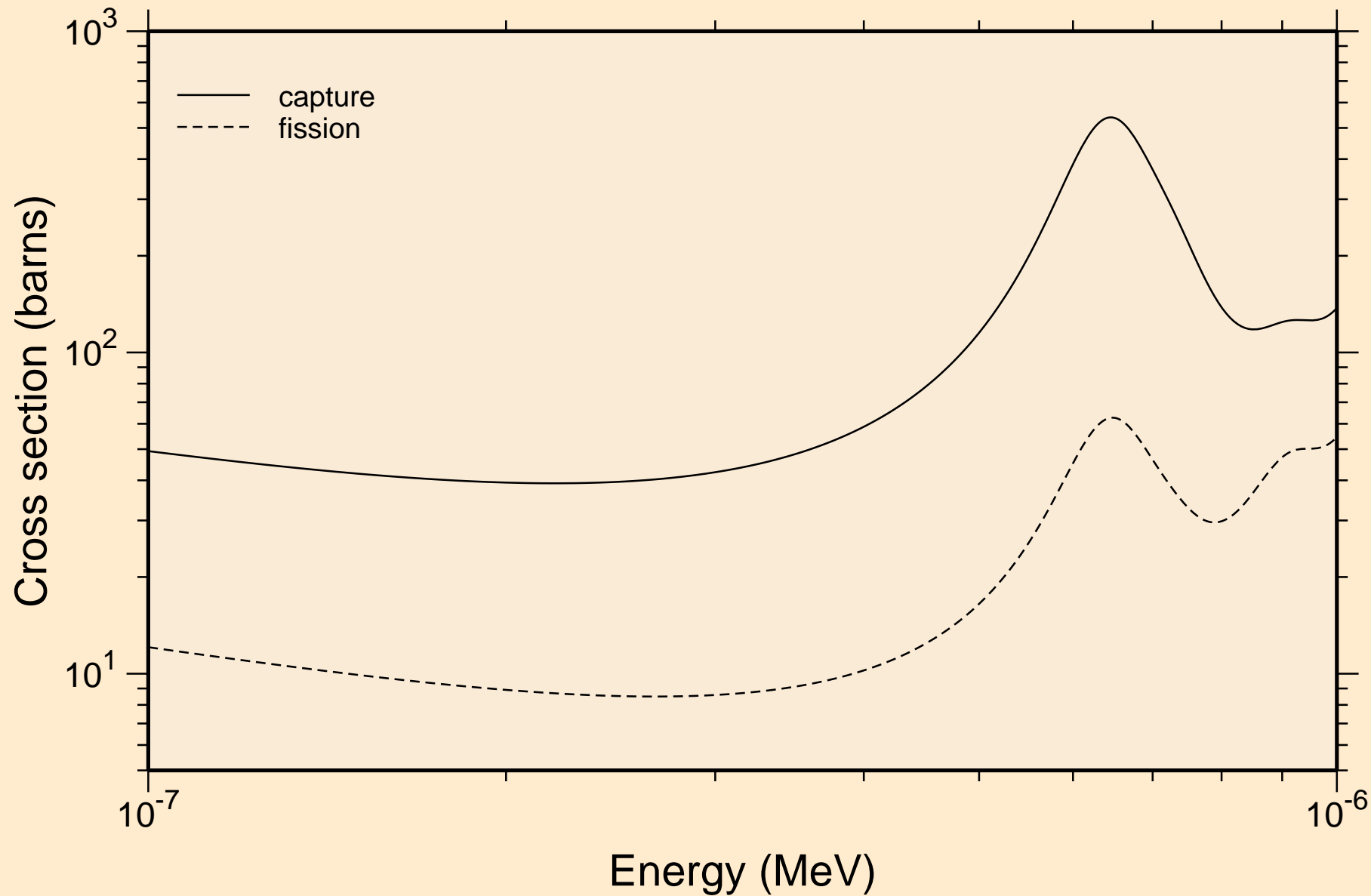
MD247 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
resonance total cross section



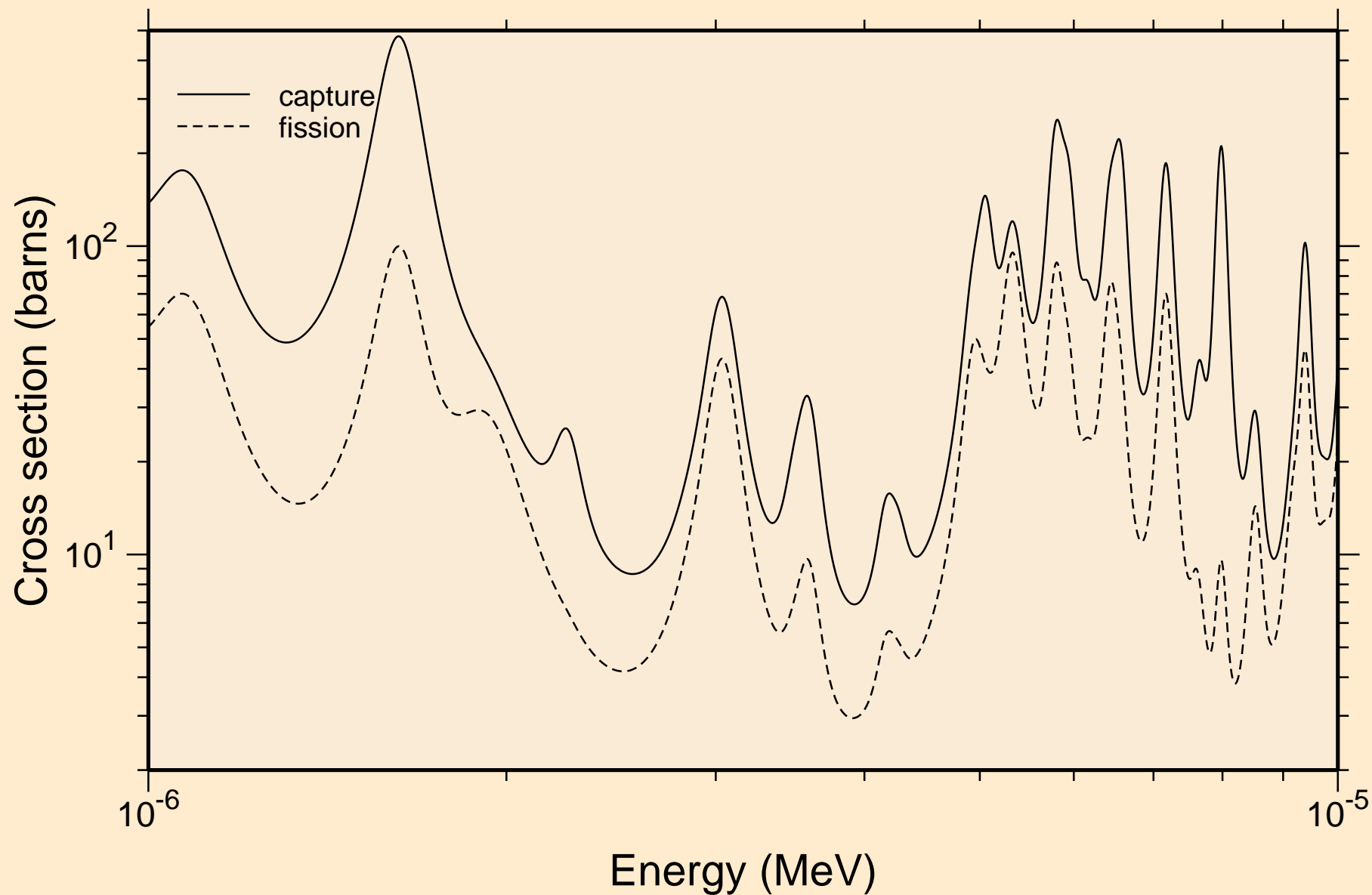
MD247 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
resonance total cross section



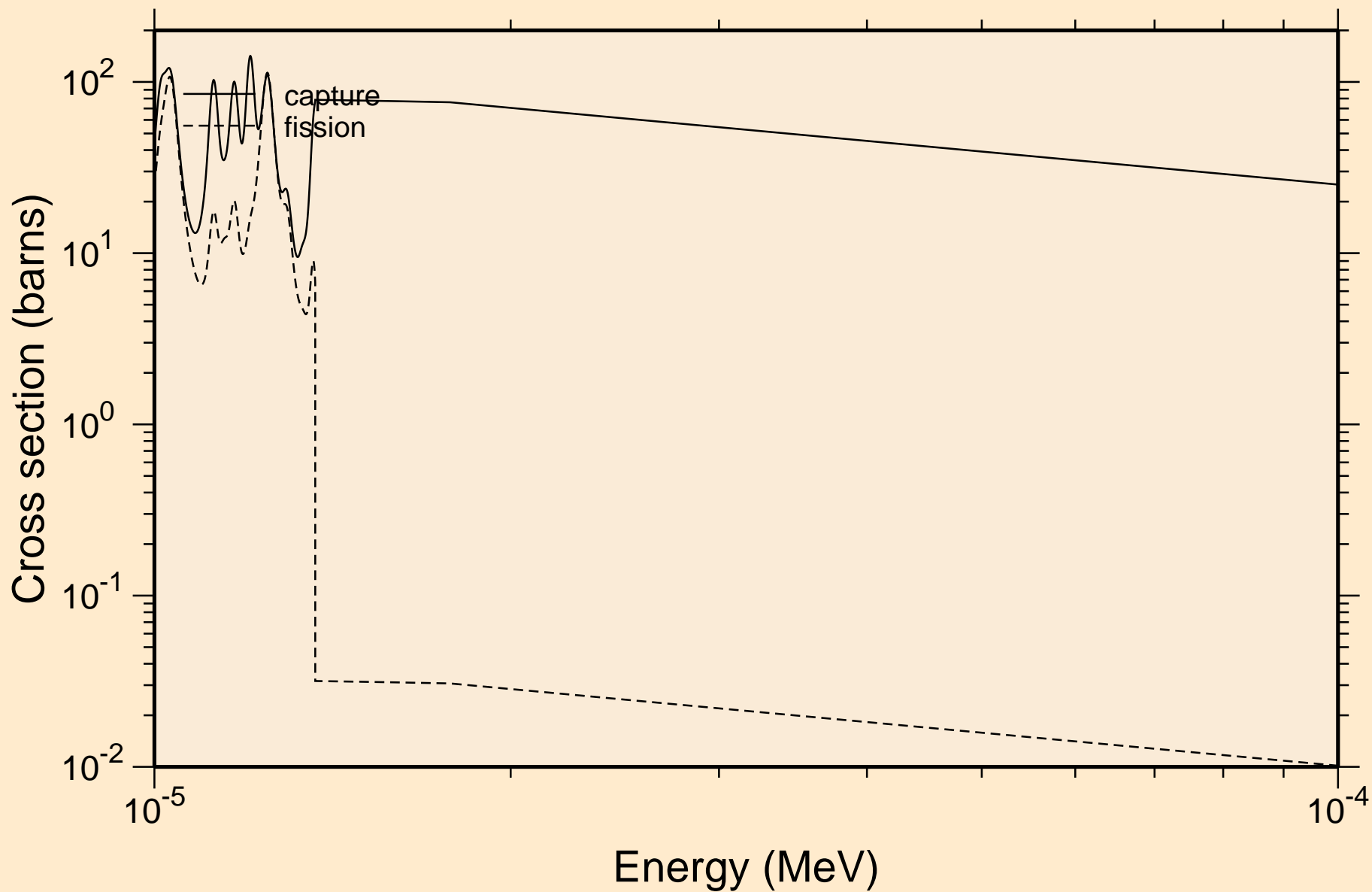
MD247 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
resonance absorption cross sections



MD247 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
resonance absorption cross sections

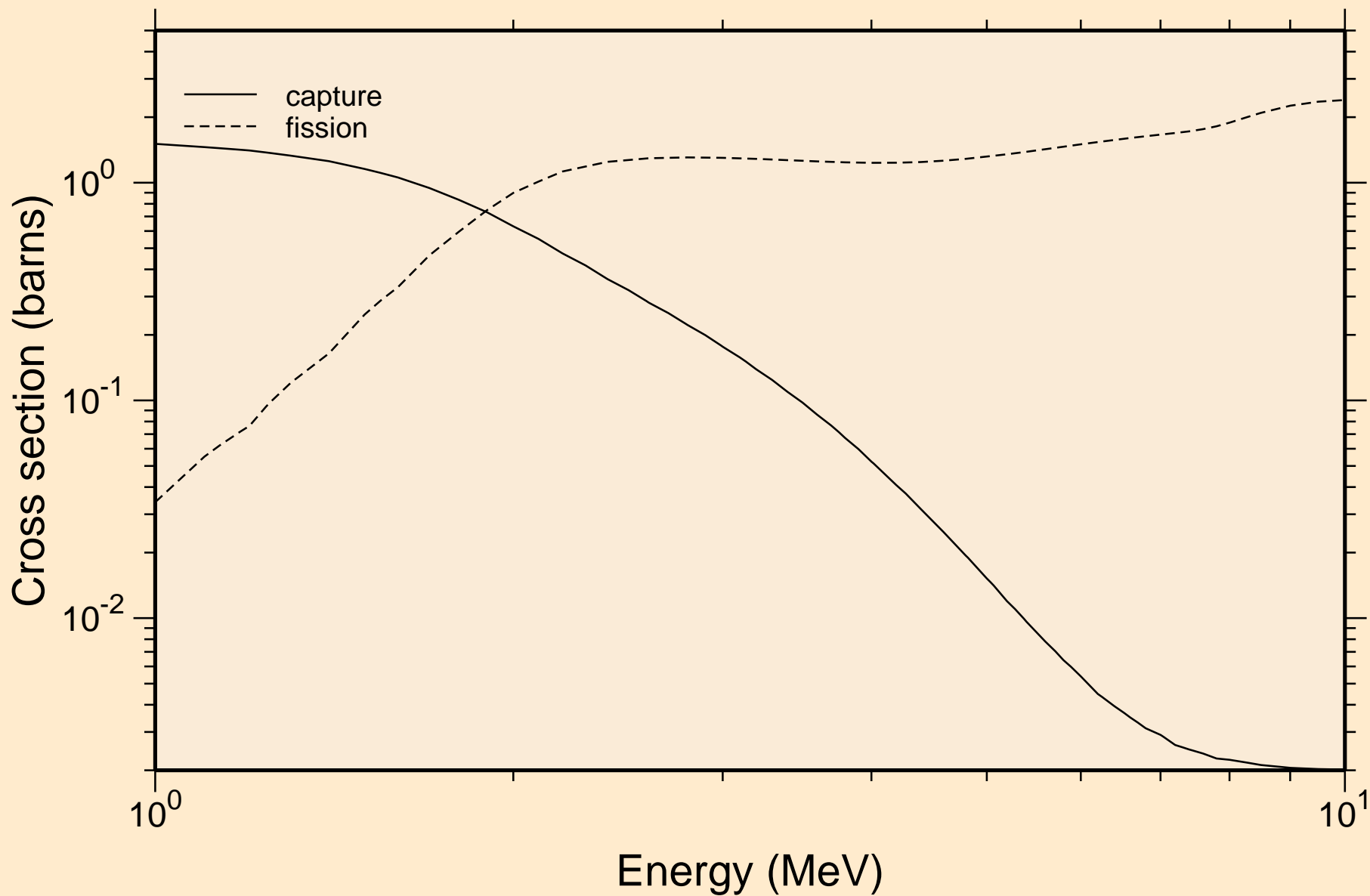


MD247 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
resonance absorption cross sections

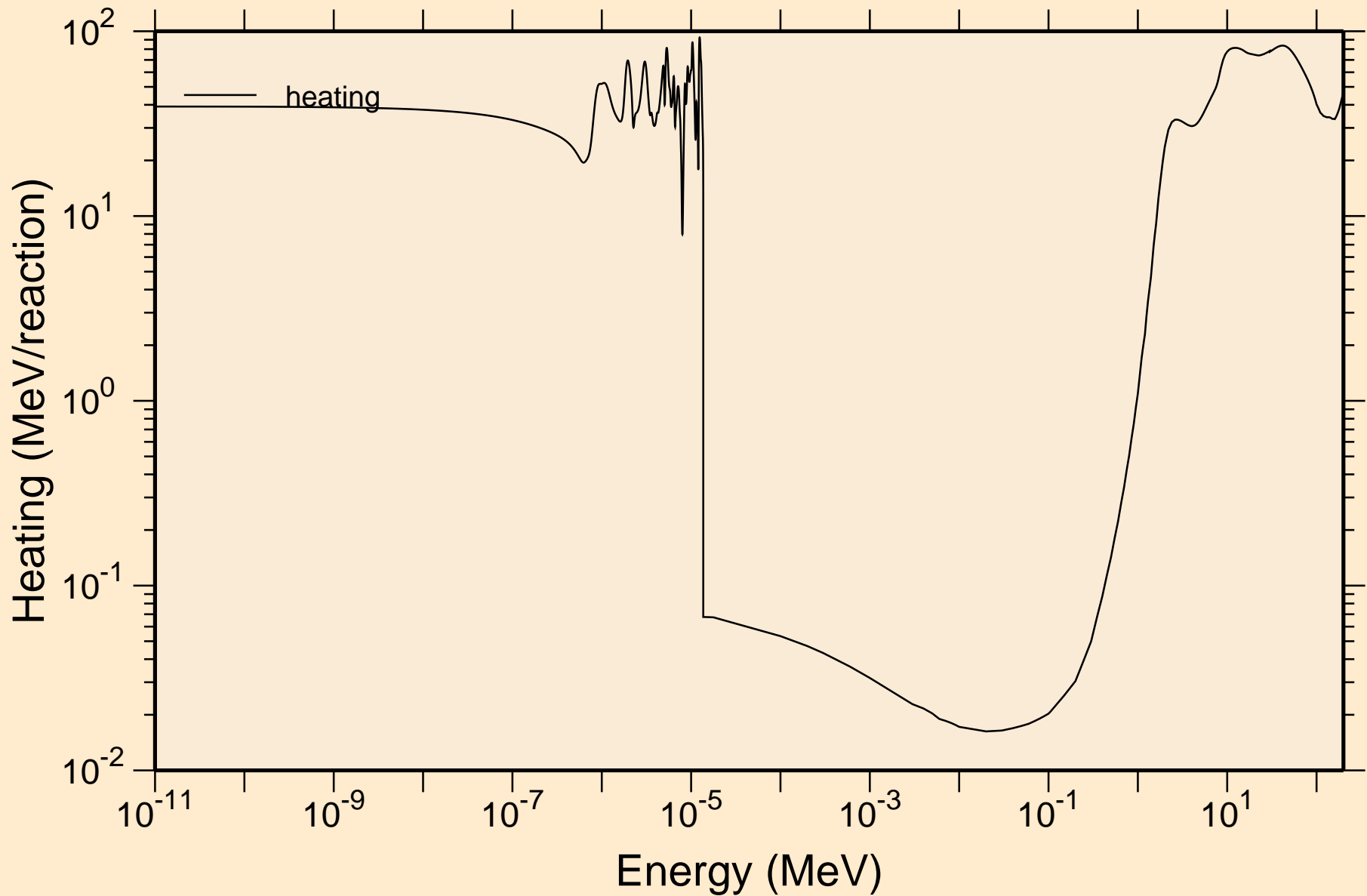




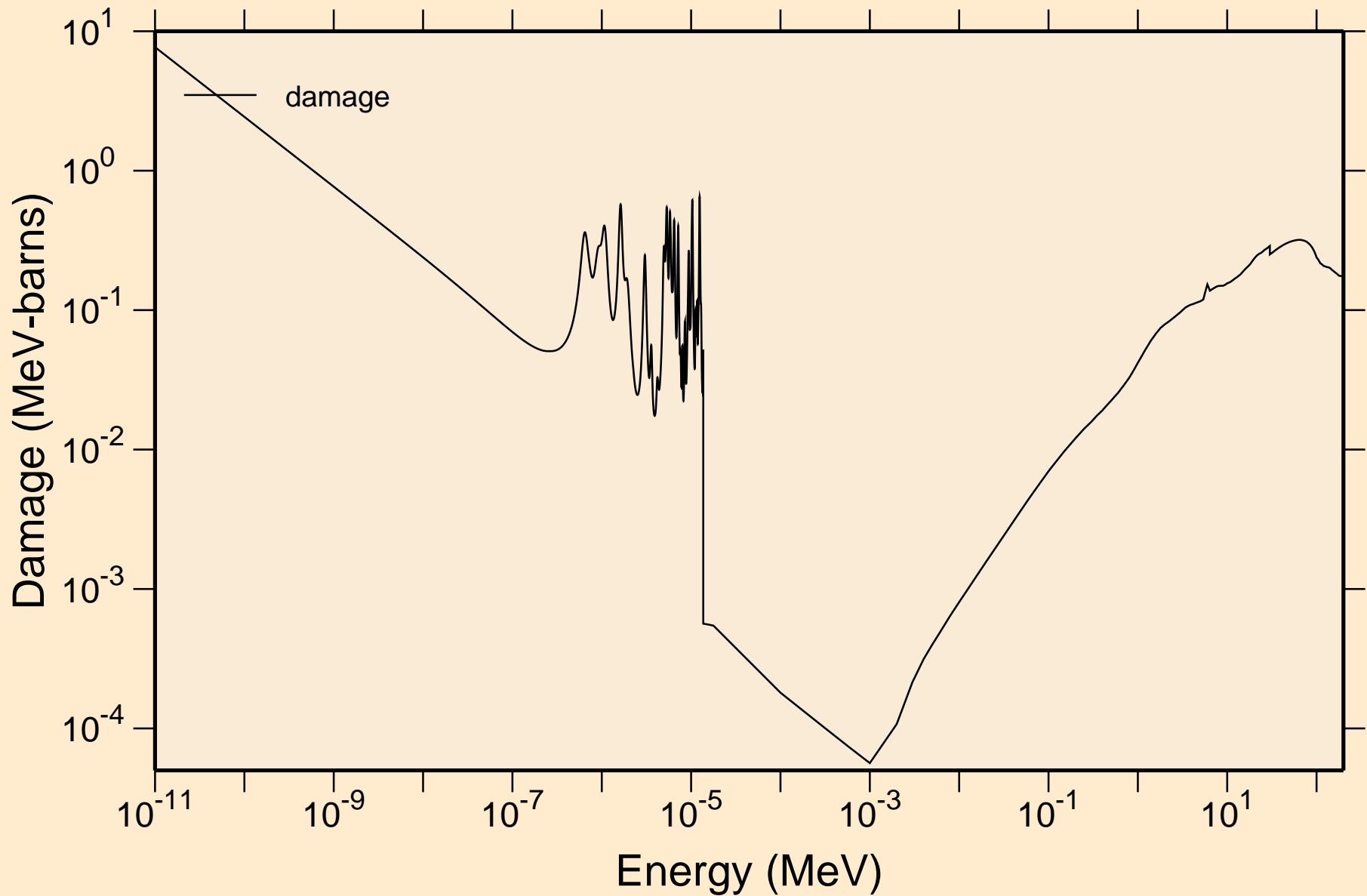
MD247 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
resonance absorption cross sections



MD247 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Heating

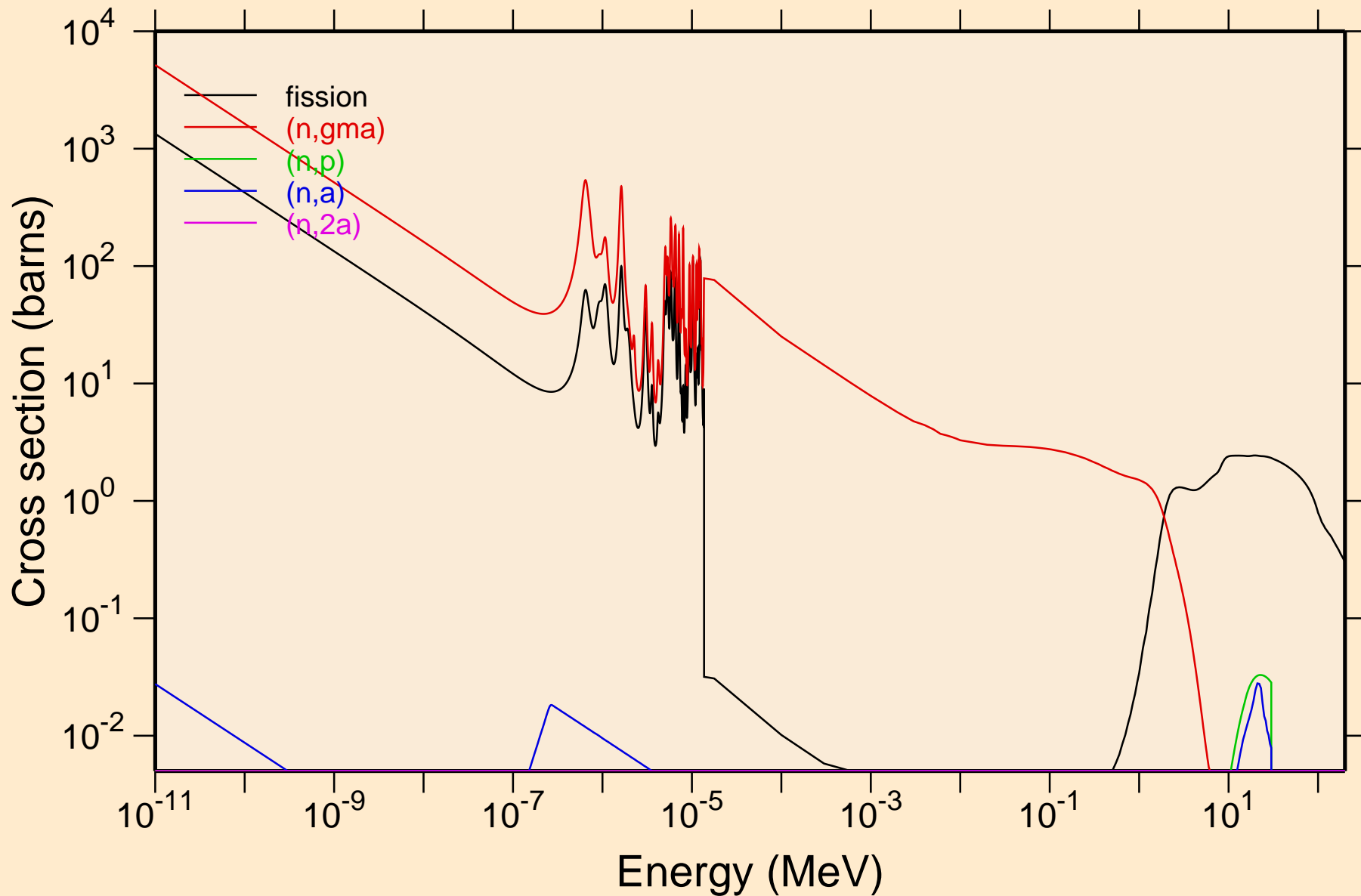


MD247 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Damage

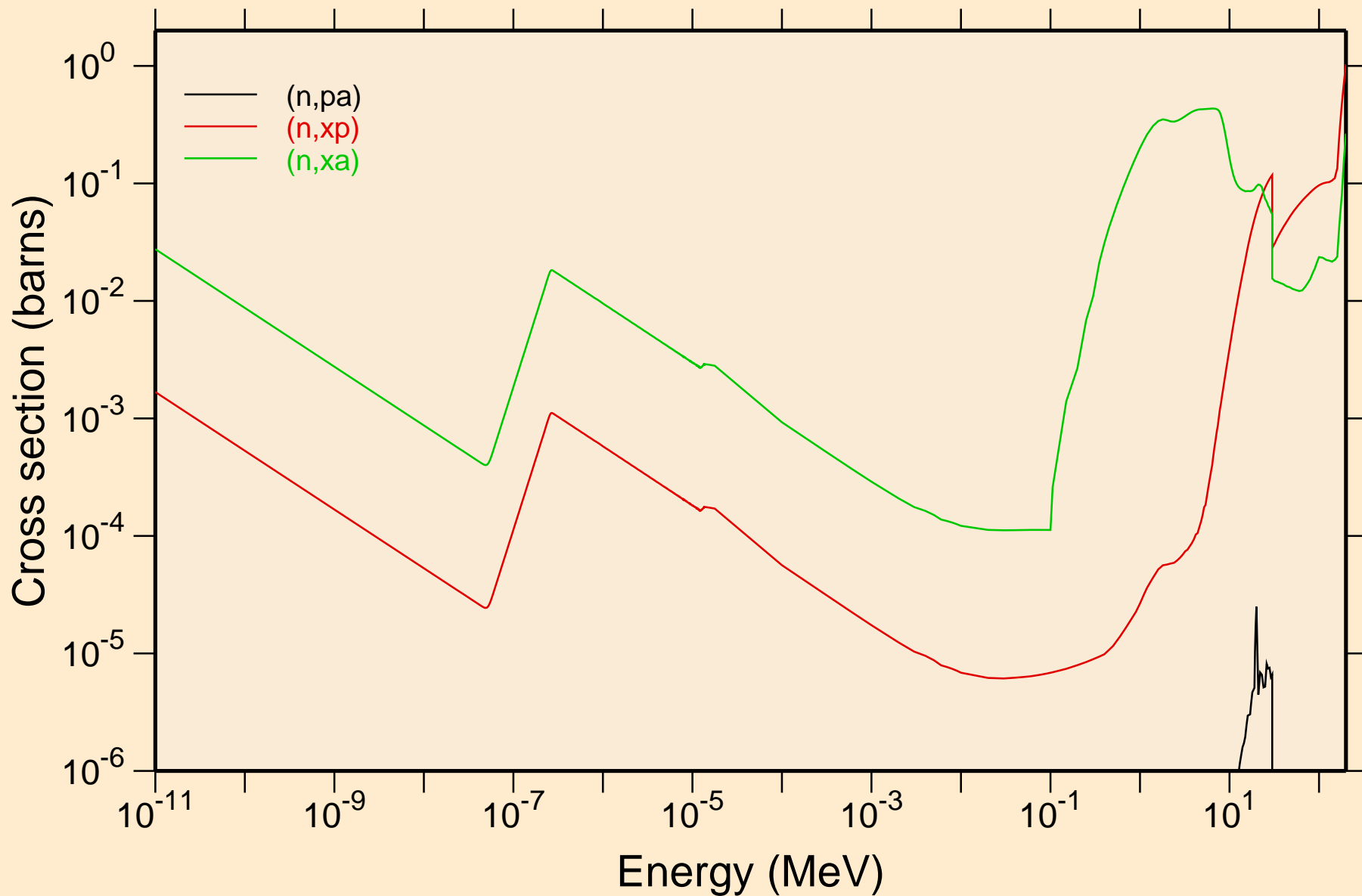


# MD247 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K

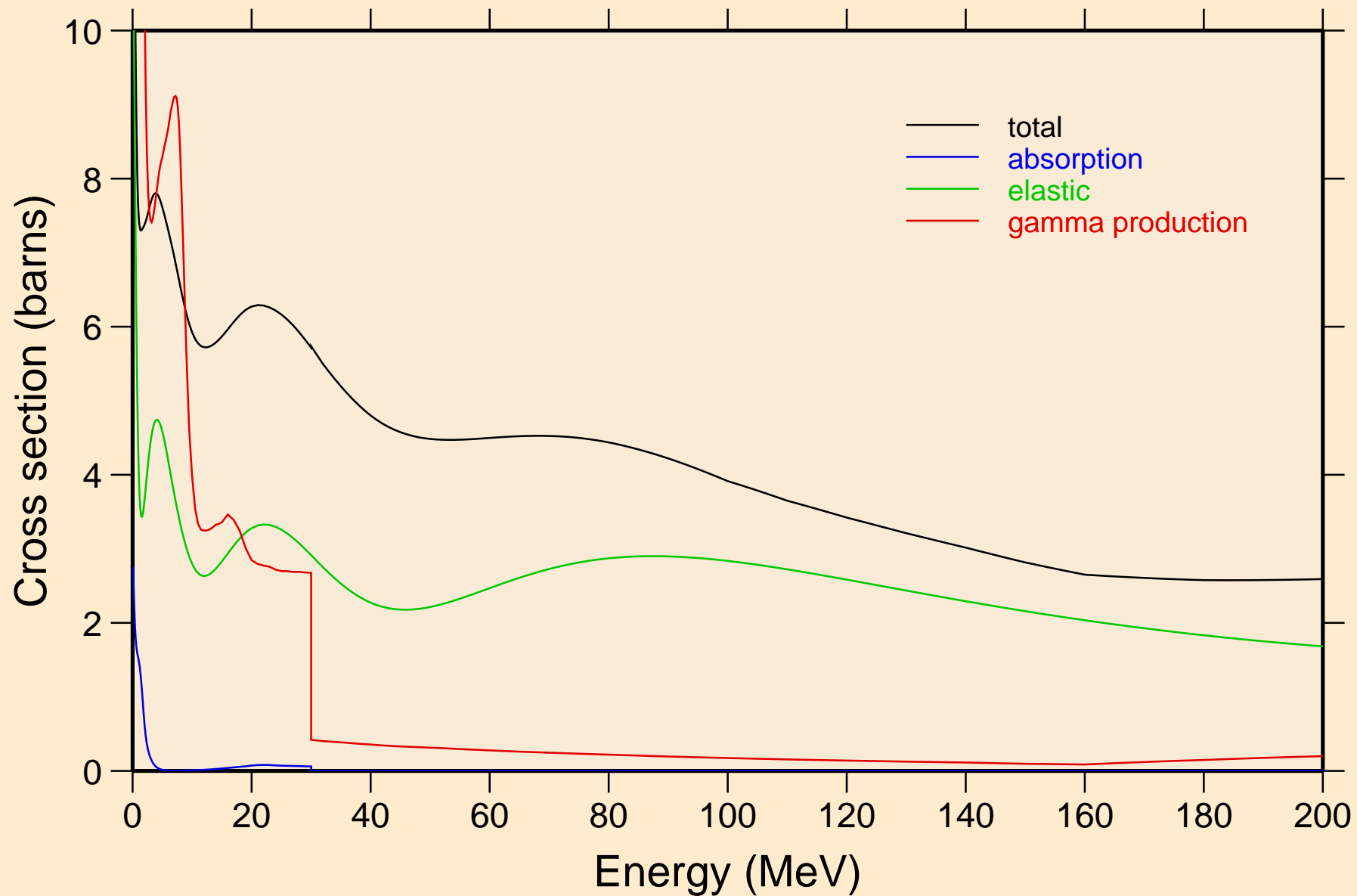
## Non-threshold reactions



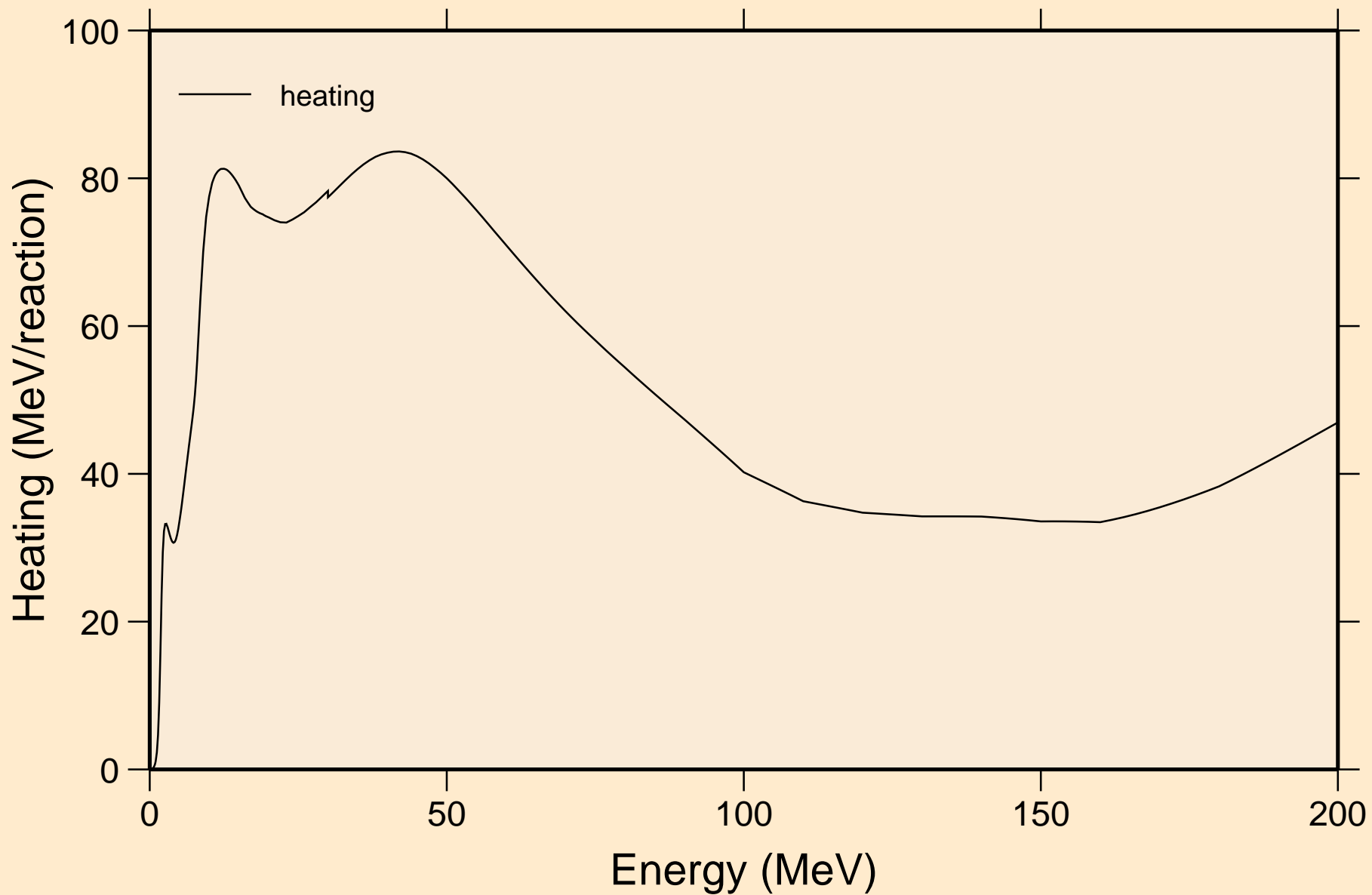
MD247 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Non-threshold reactions



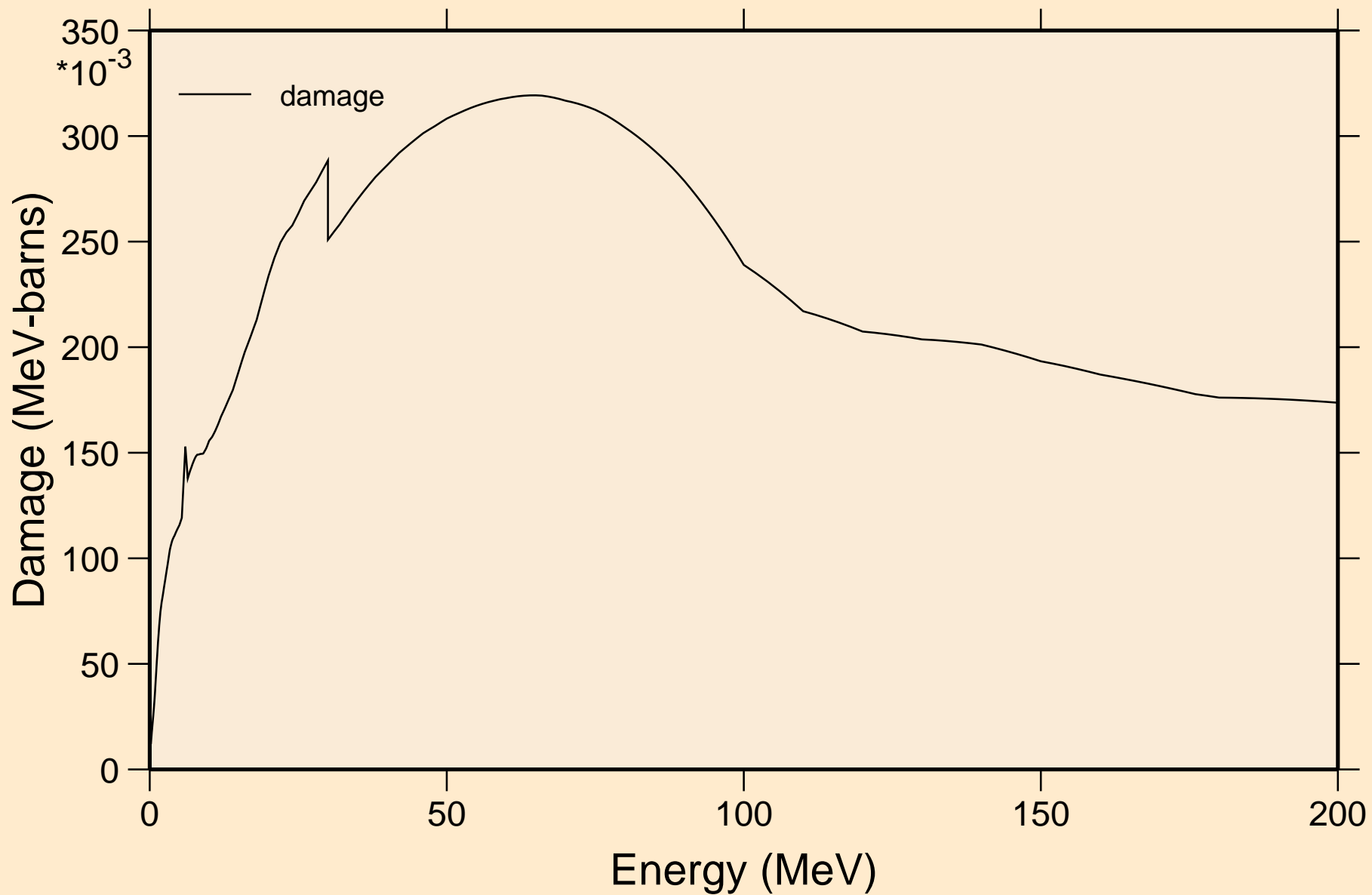
MD247 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Principal cross sections



MD247 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Heating



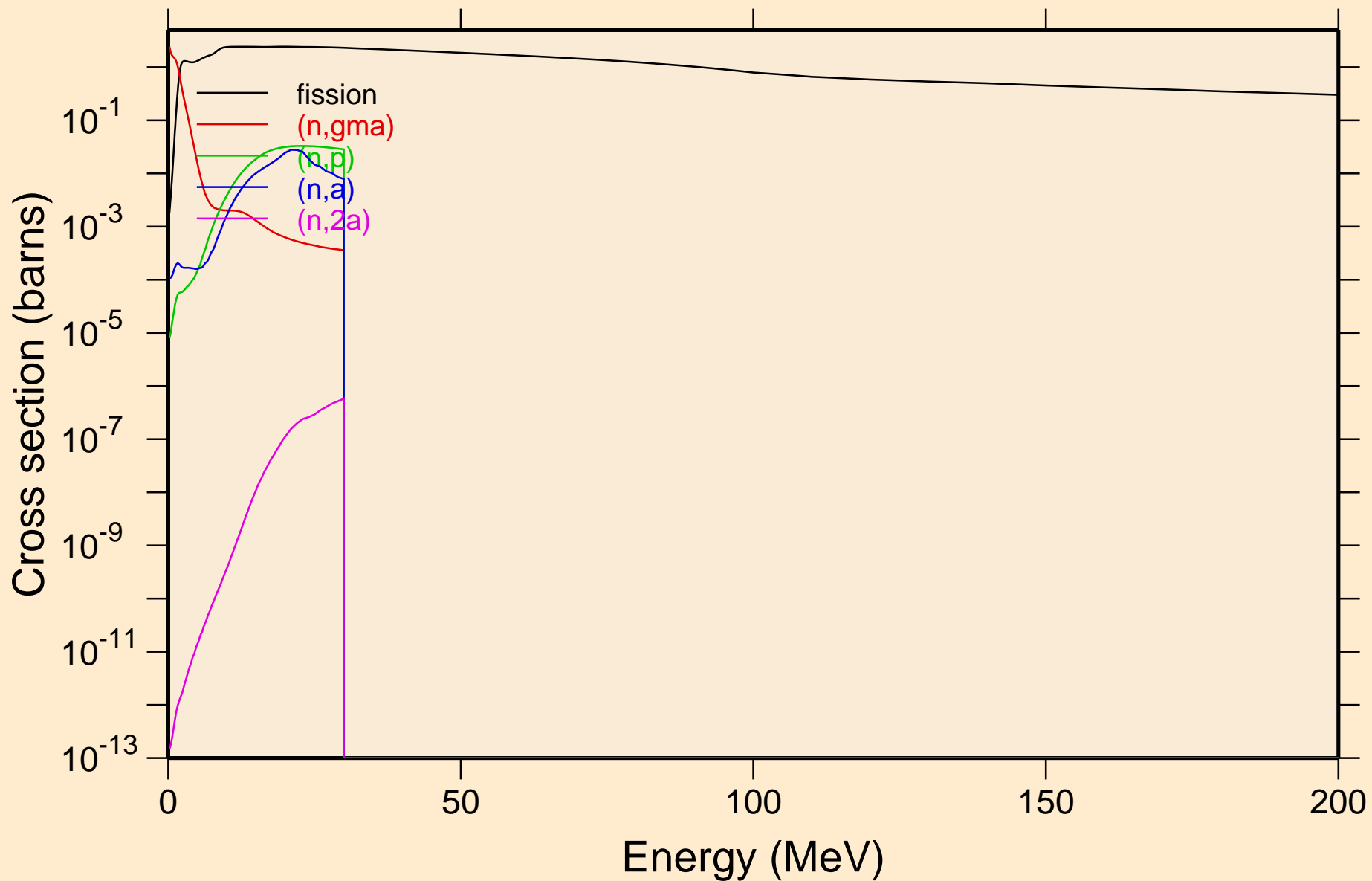
MD247 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Damage



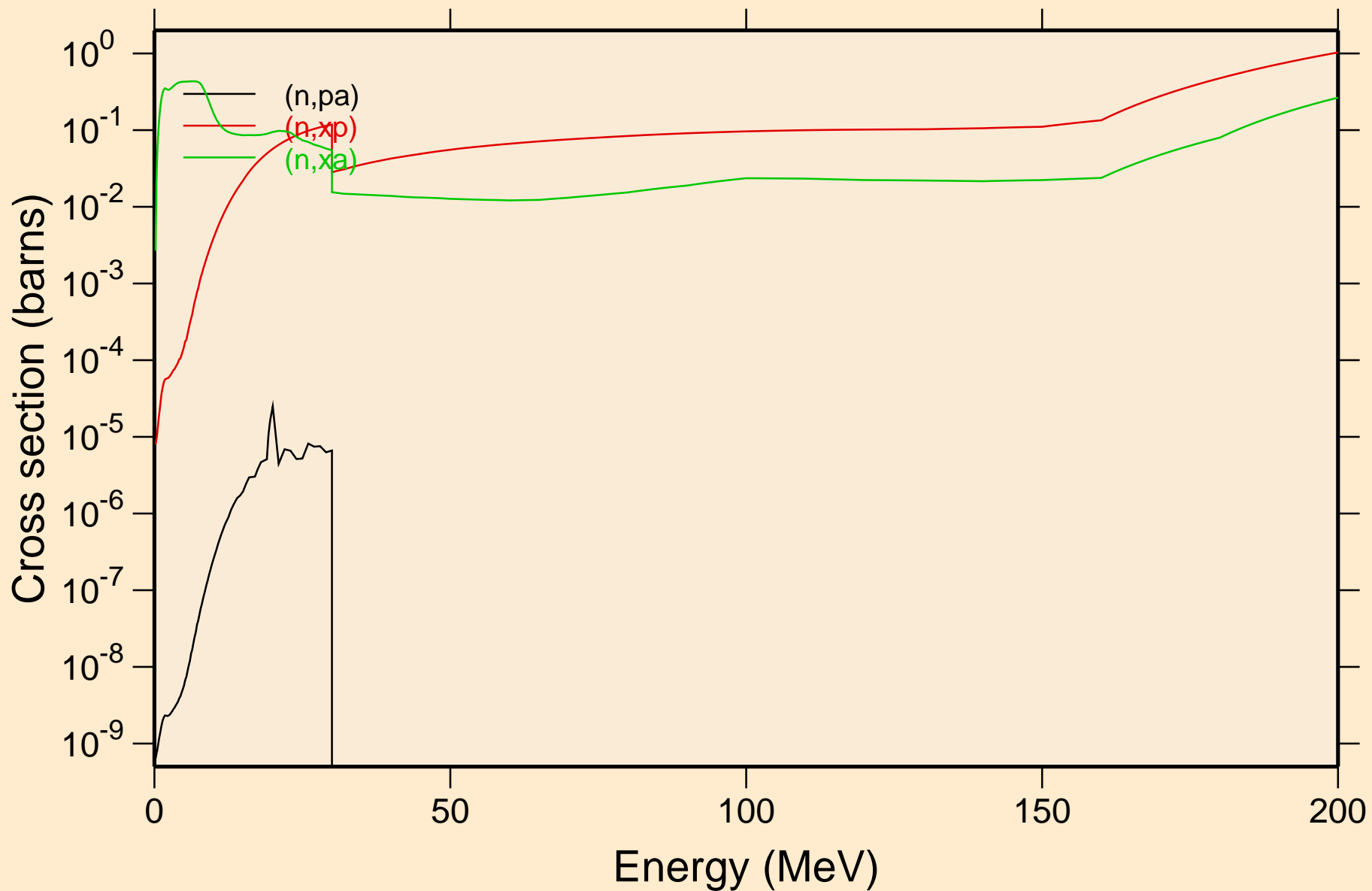


# MD247 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K

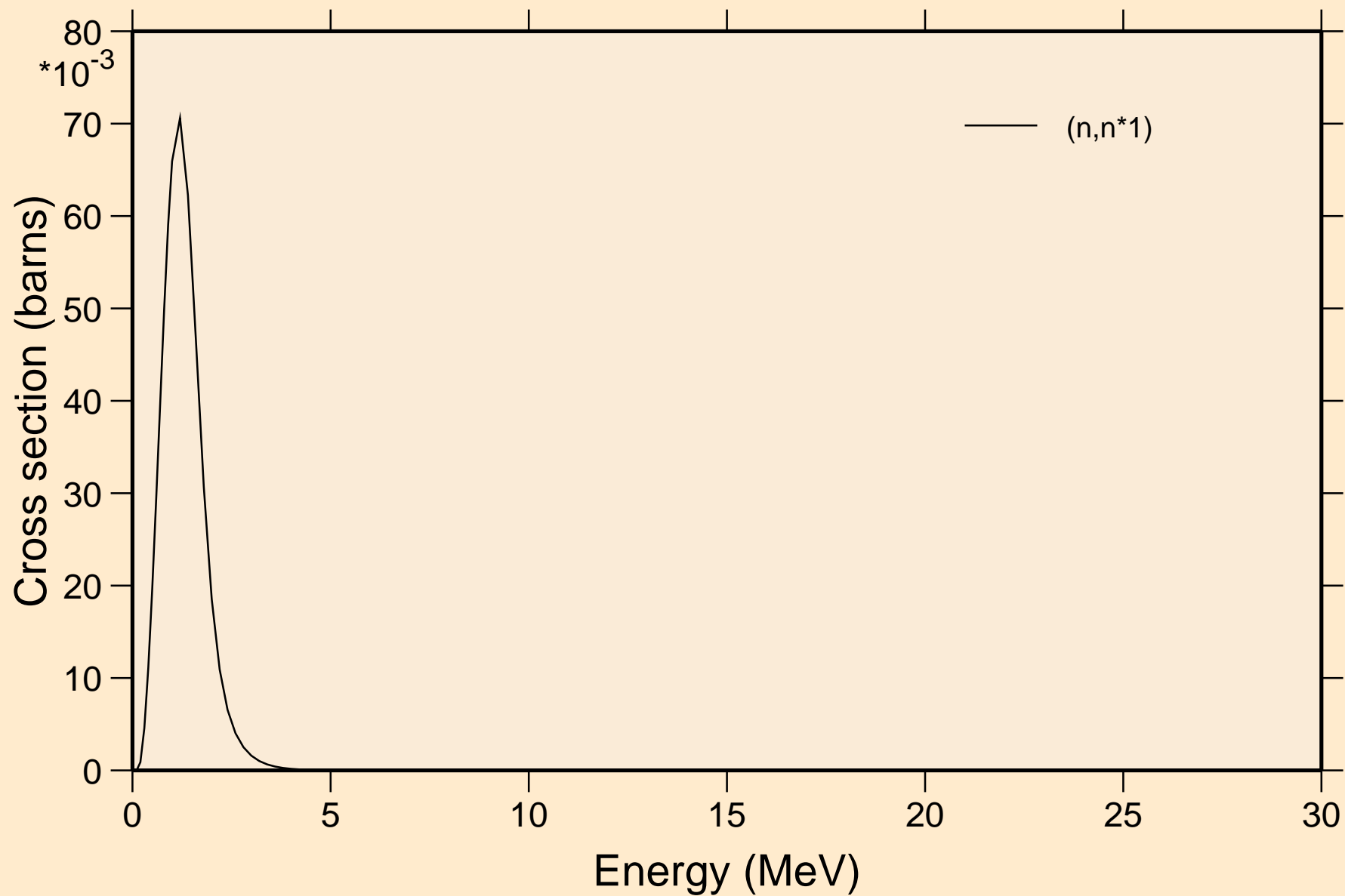
## Non-threshold reactions



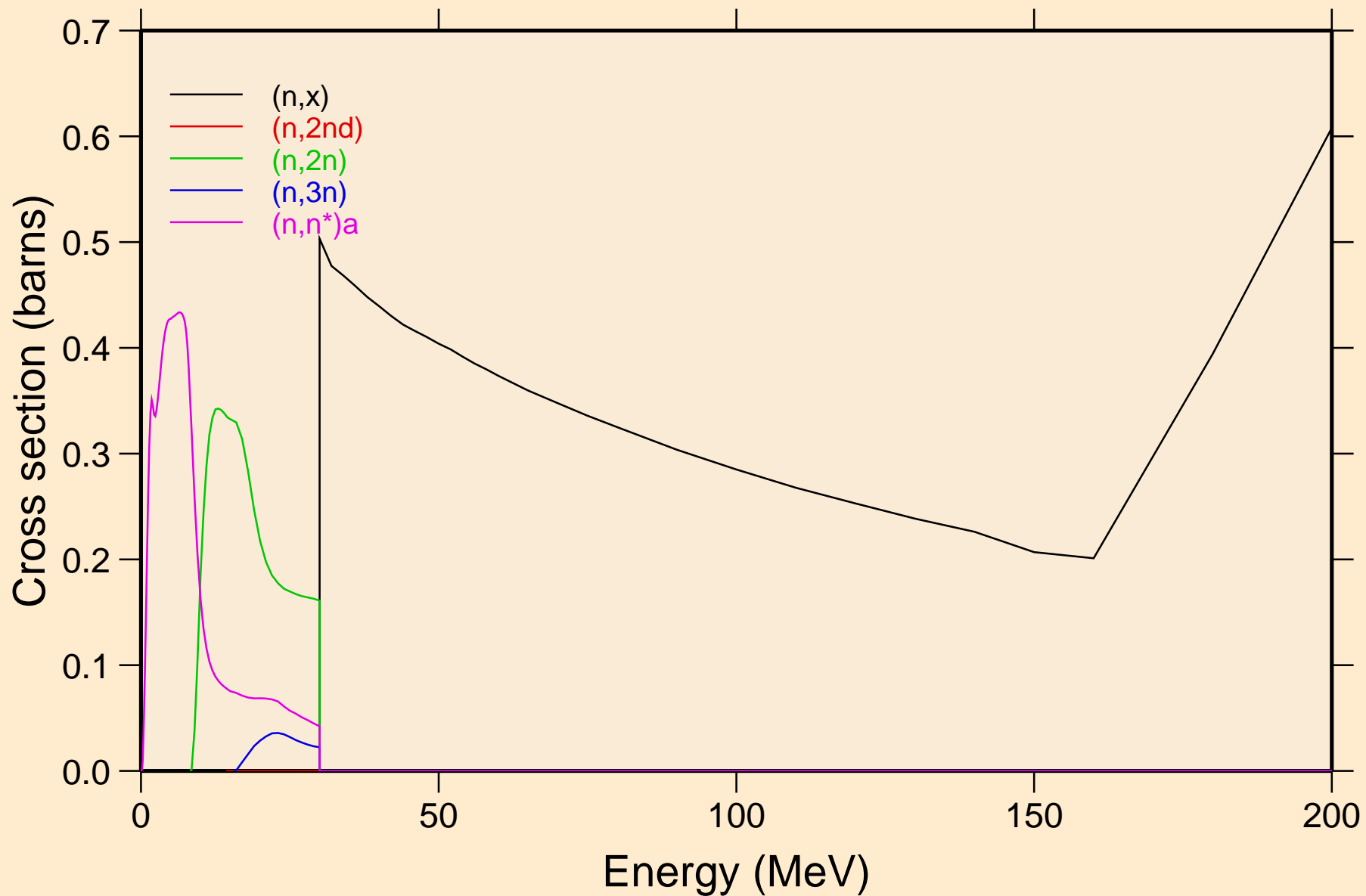
MD247 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Non-threshold reactions



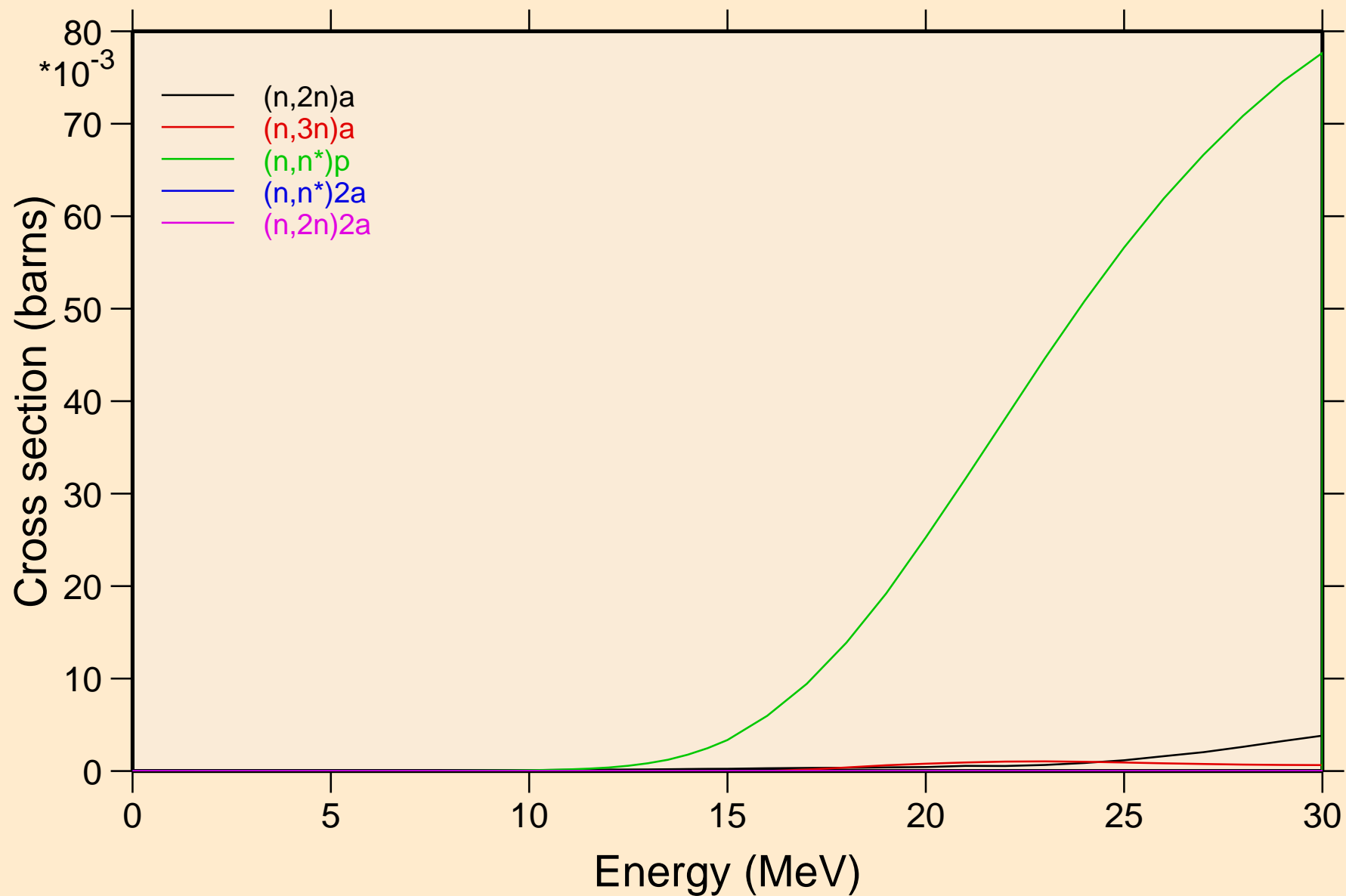
MD247 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Inelastic levels



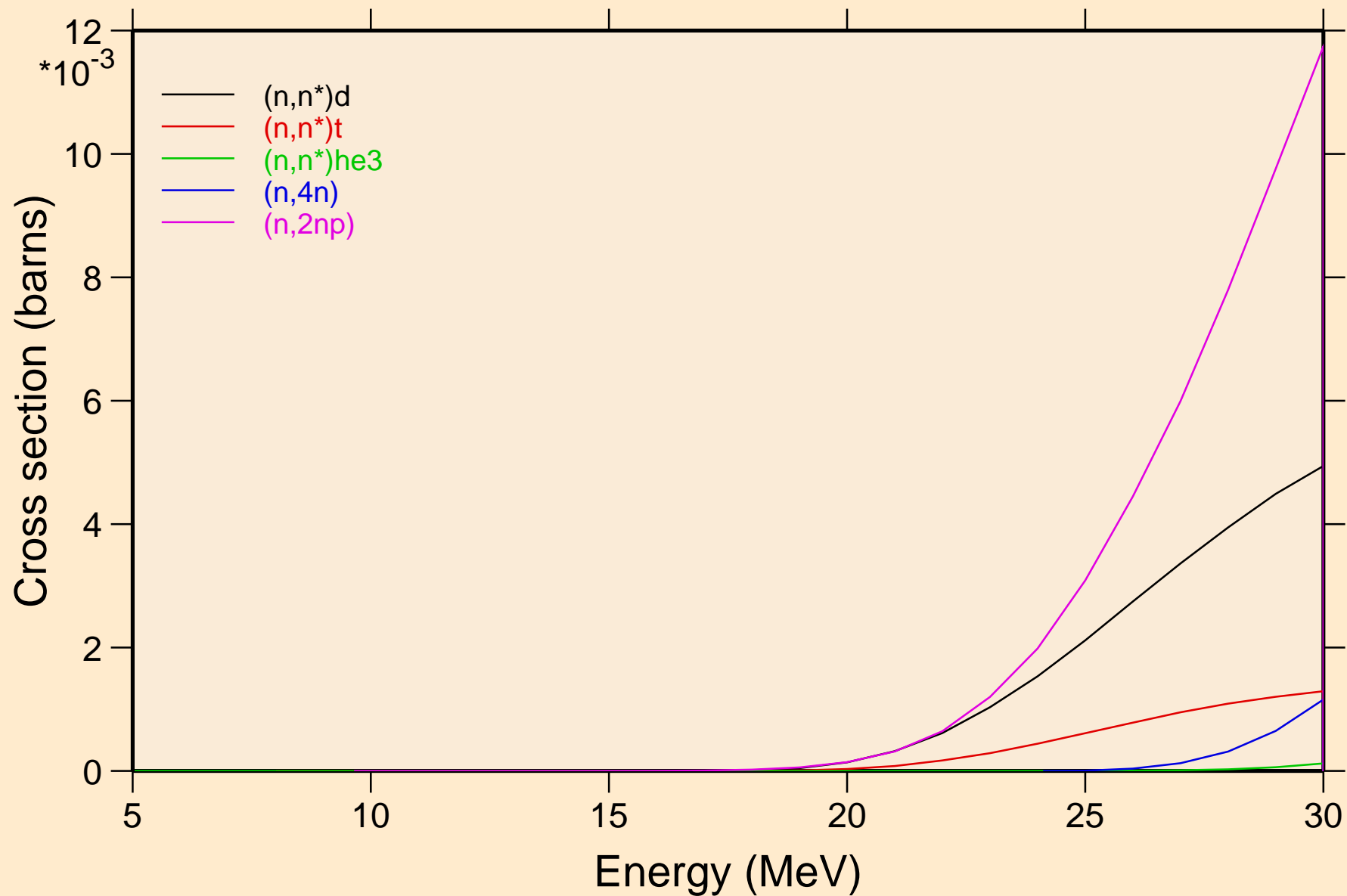
MD247 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Threshold reactions



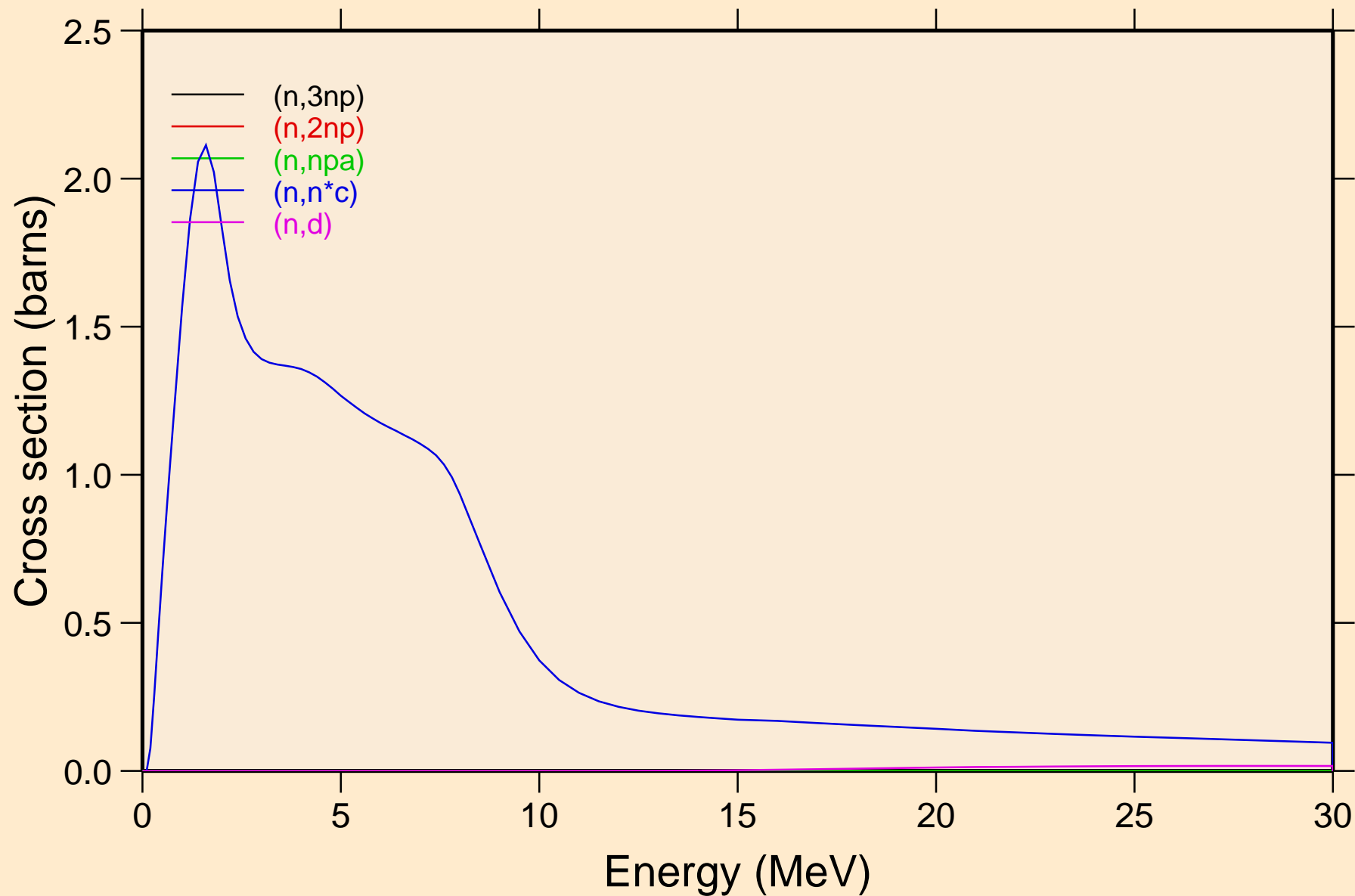
MD247 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Threshold reactions



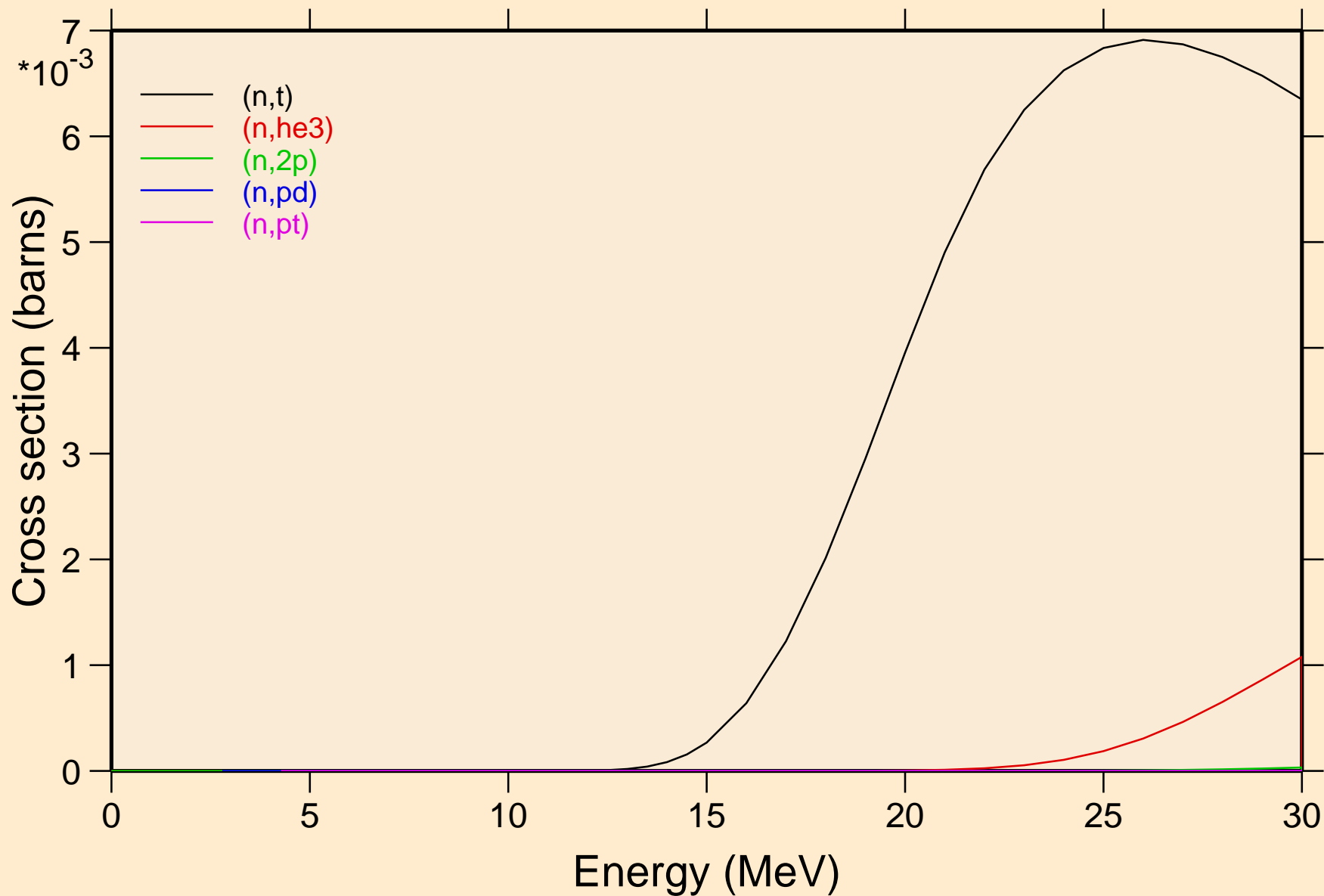
MD247 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Threshold reactions



MD247 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Threshold reactions

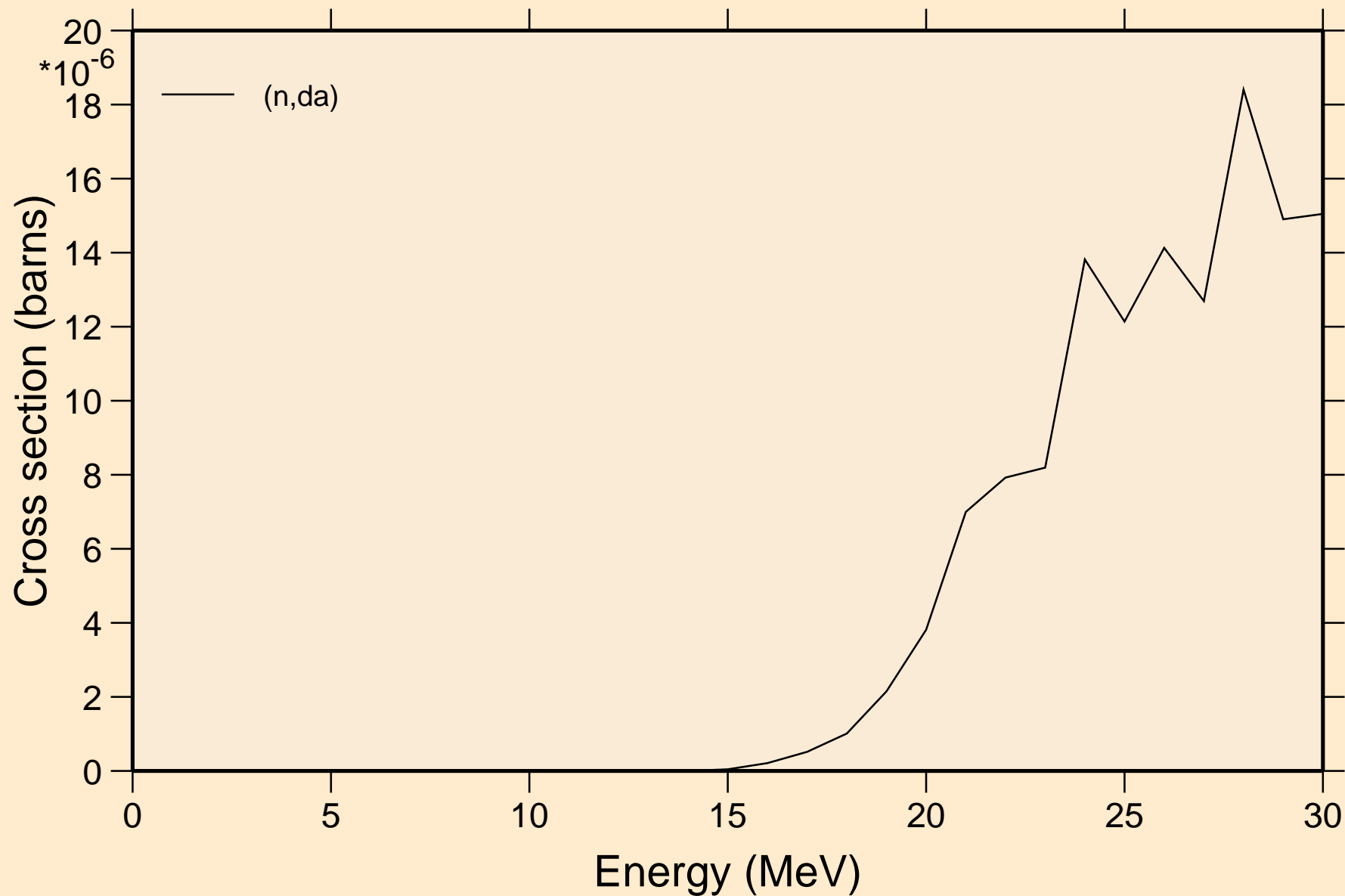


MD247 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Threshold reactions

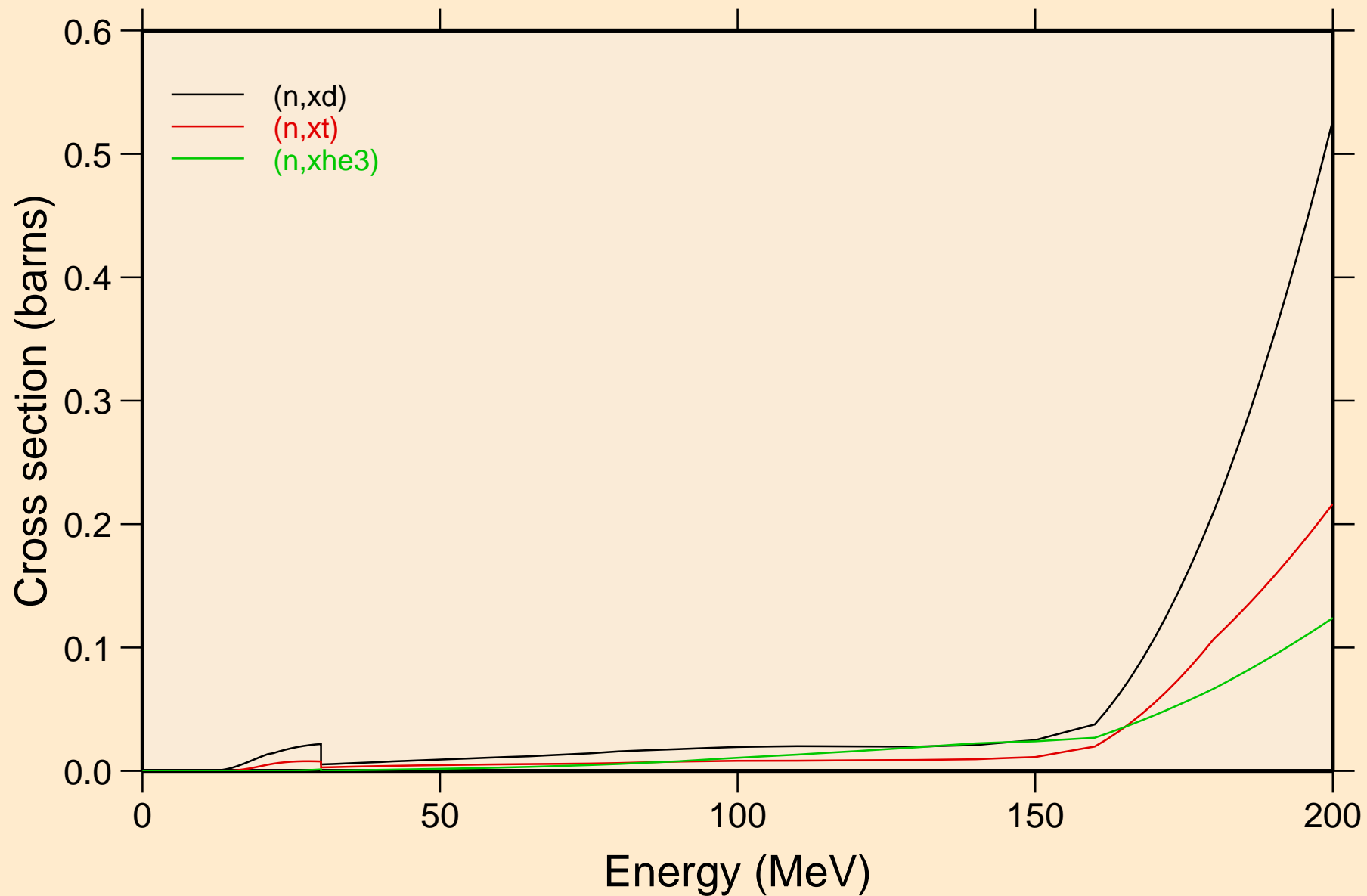




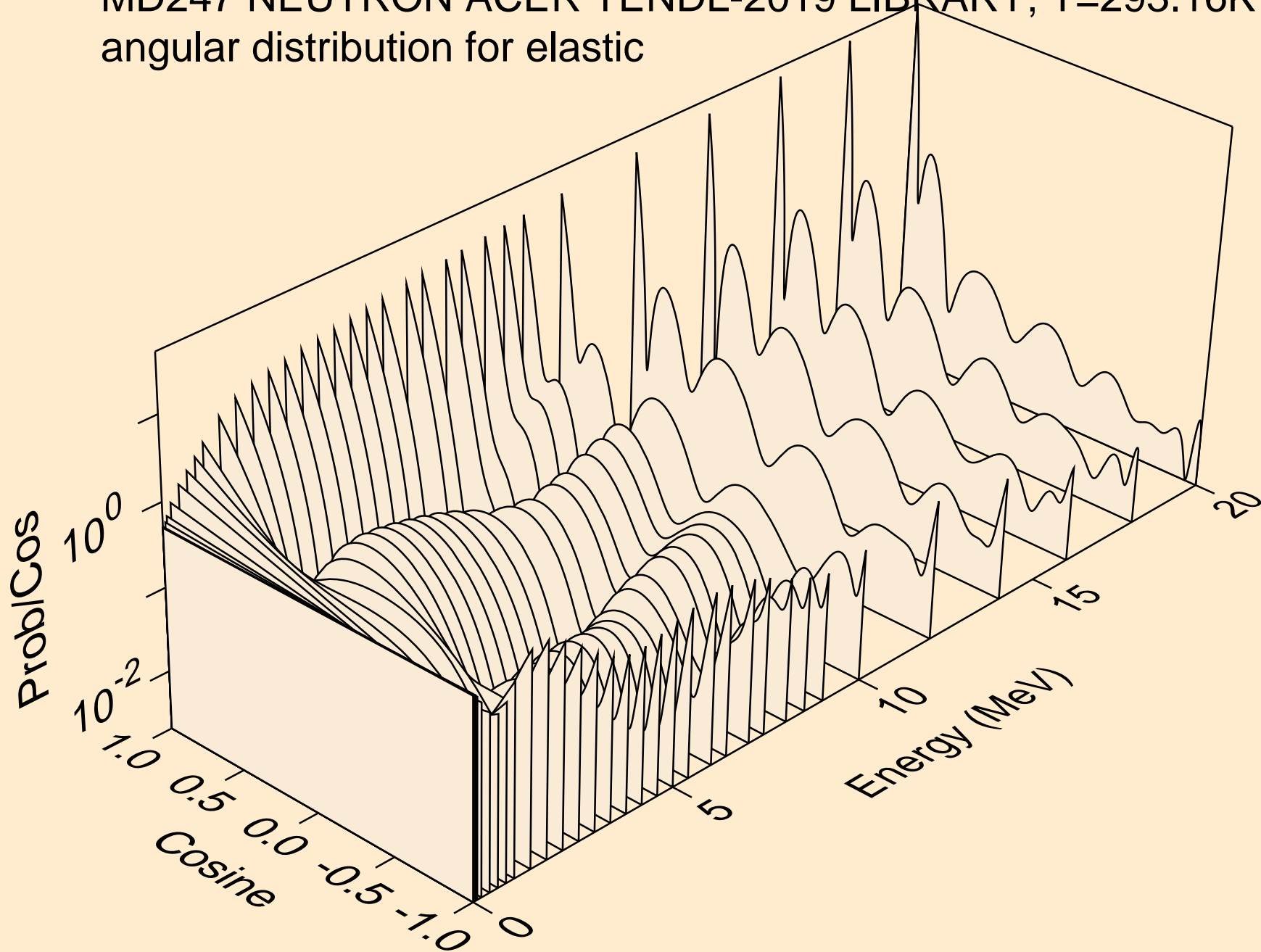
MD247 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Threshold reactions



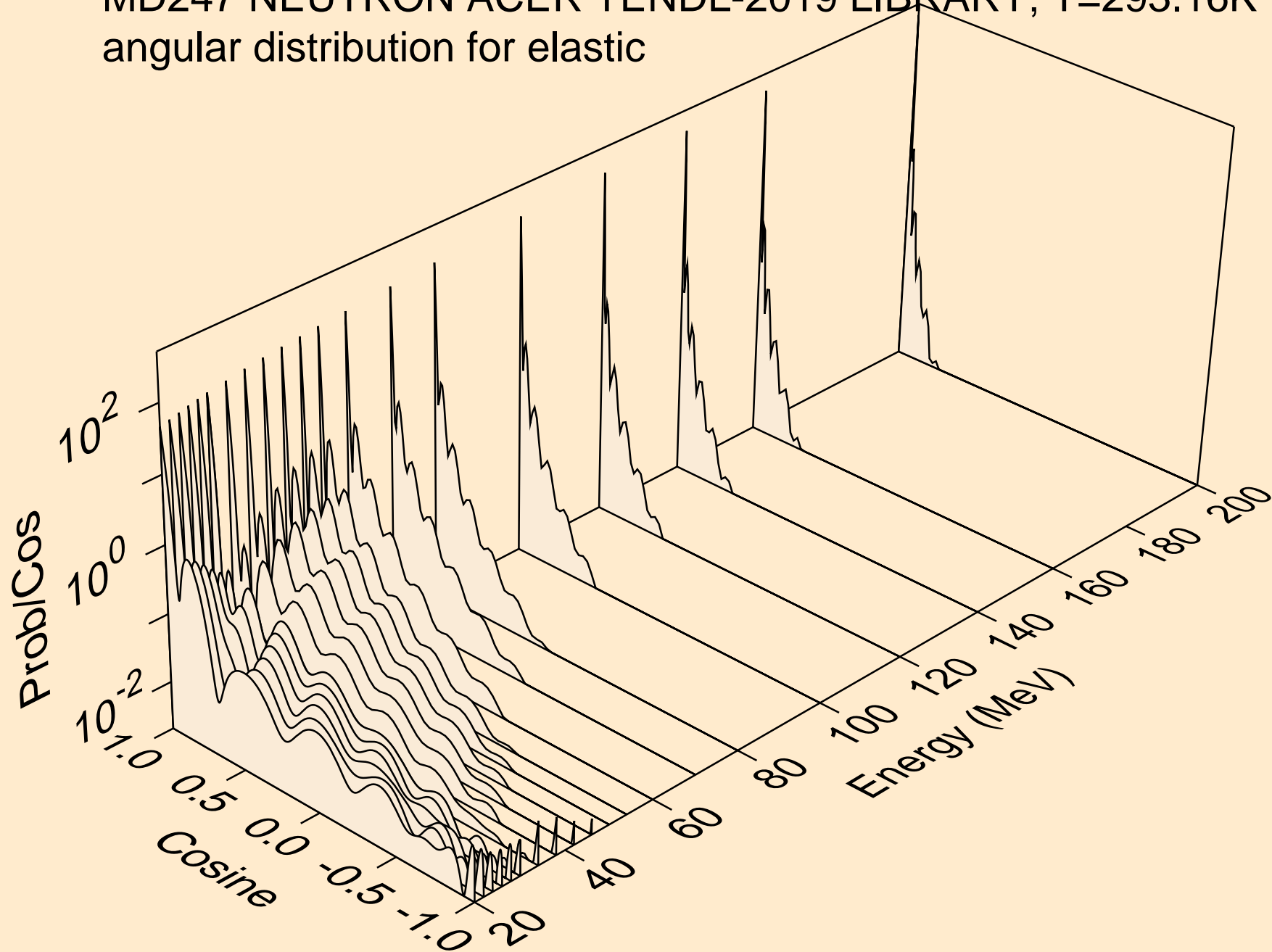
MD247 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Threshold reactions



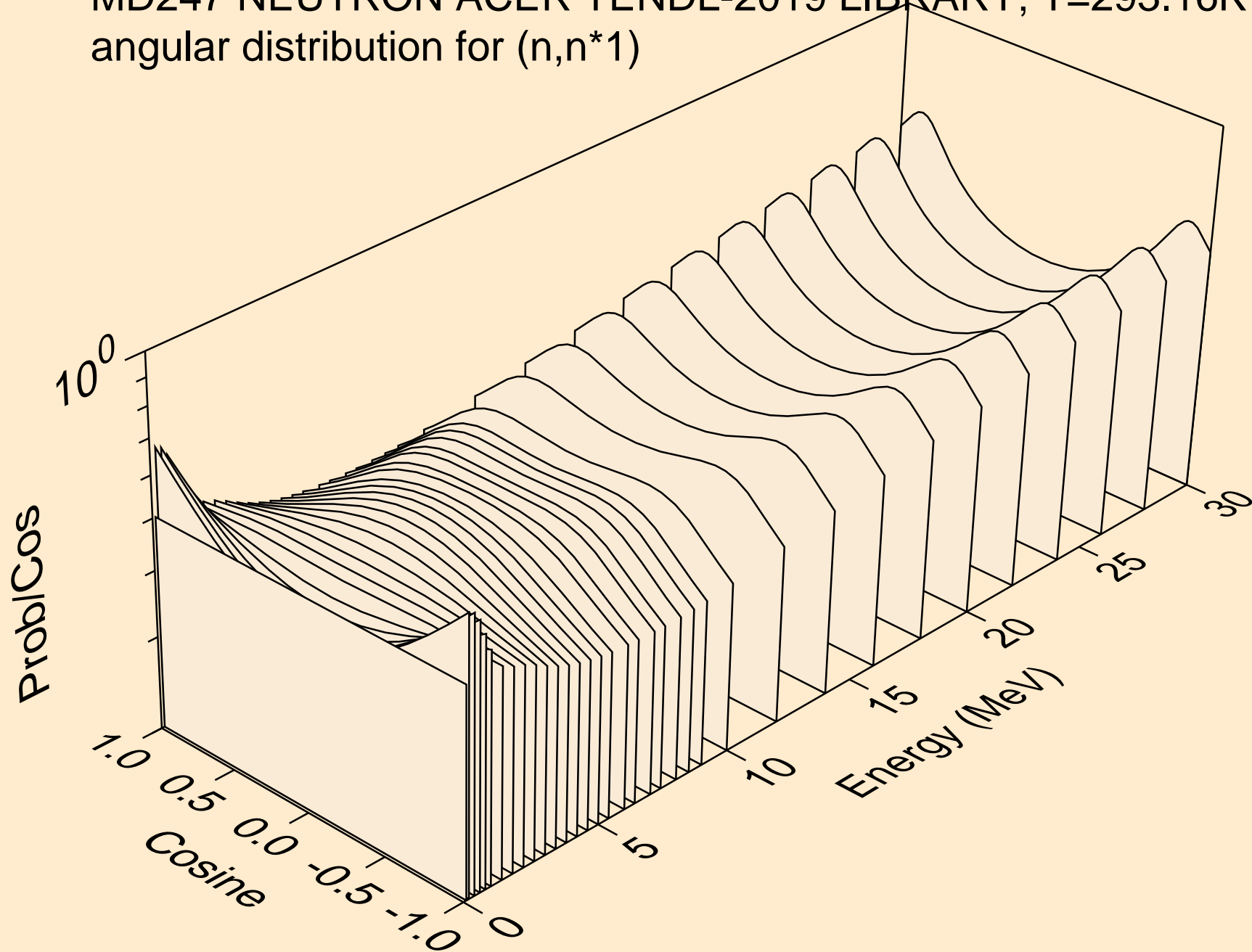
MD247 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for elastic



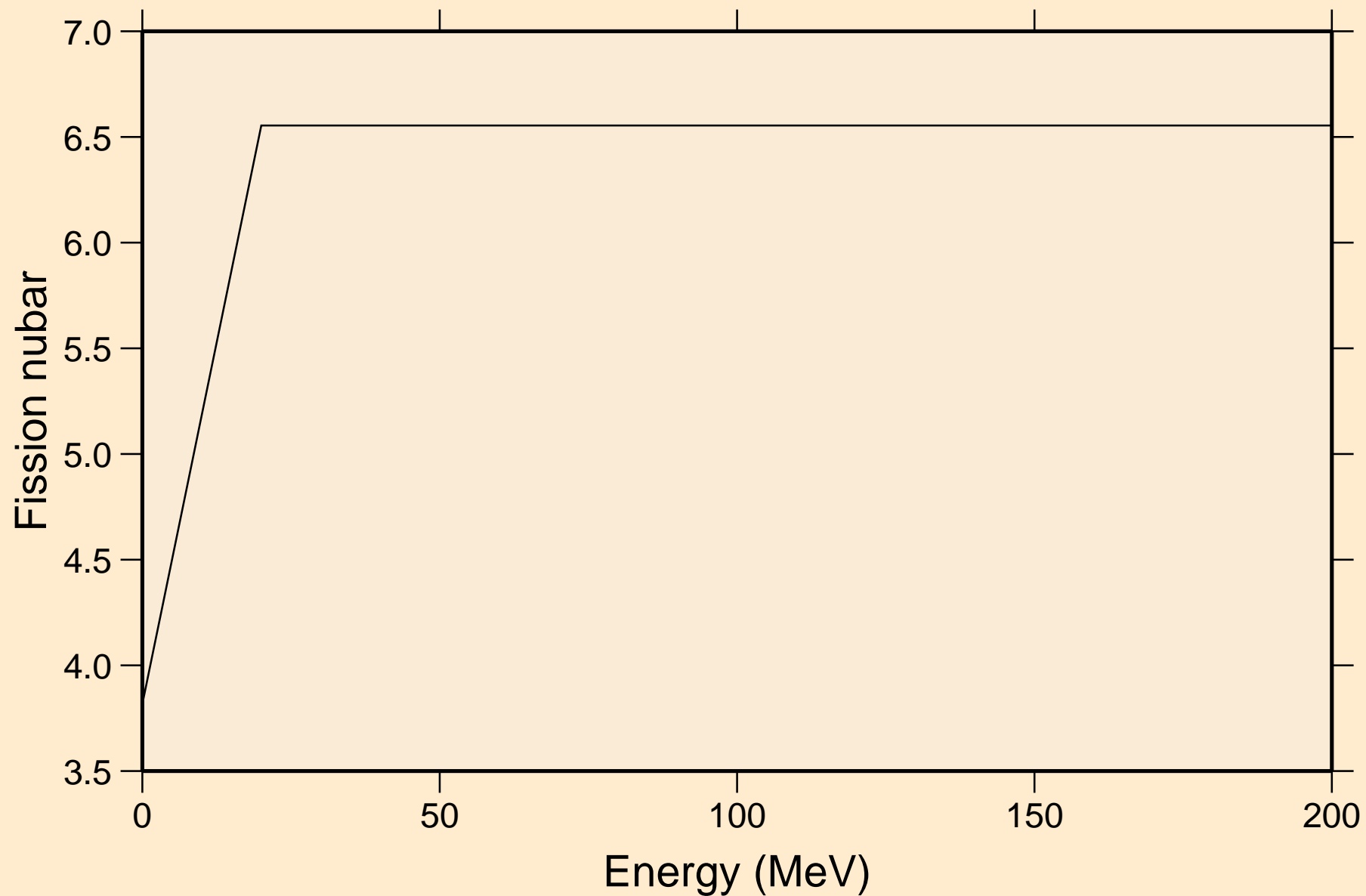
MD247 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for elastic



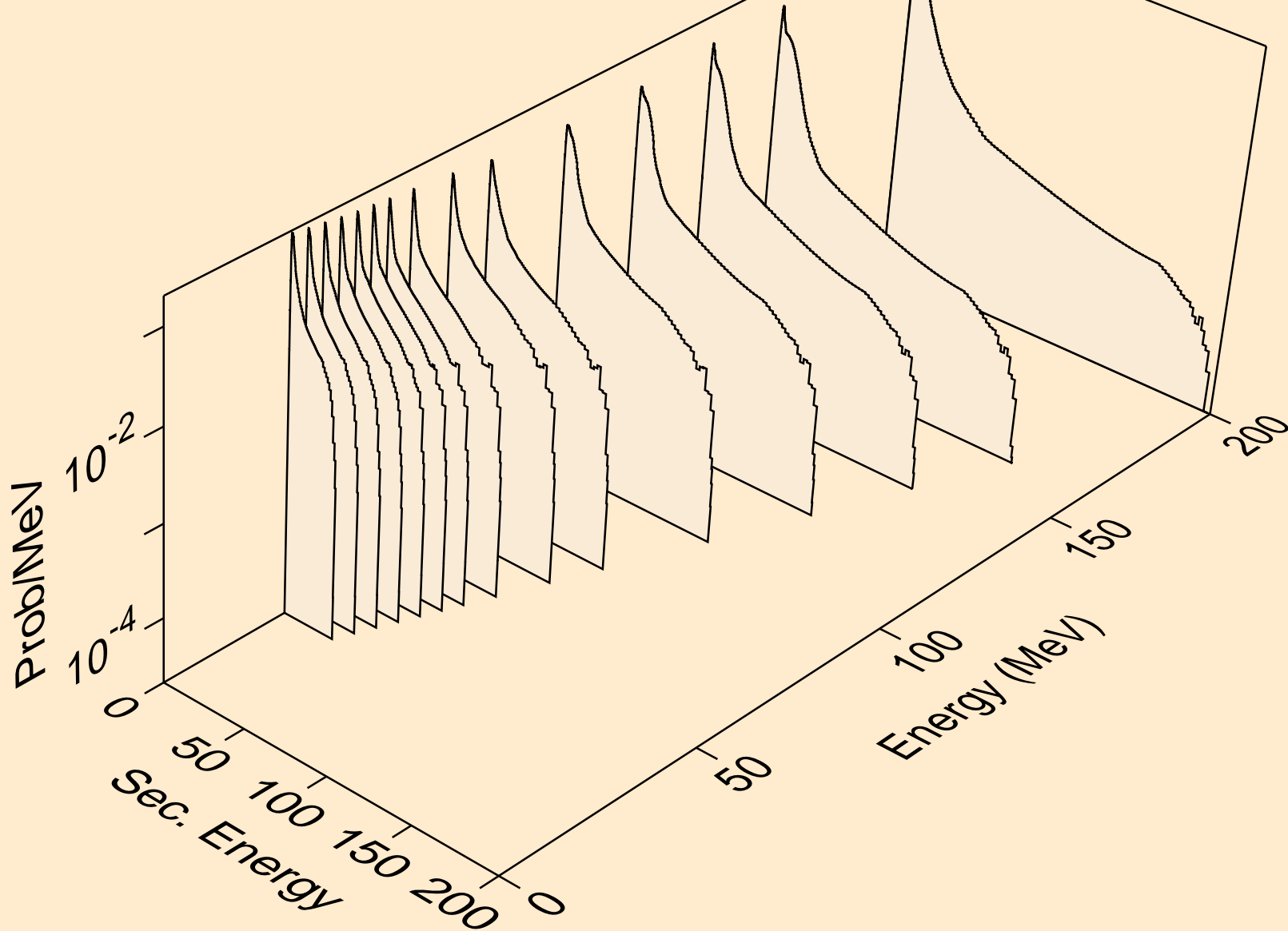
MD247 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*1)



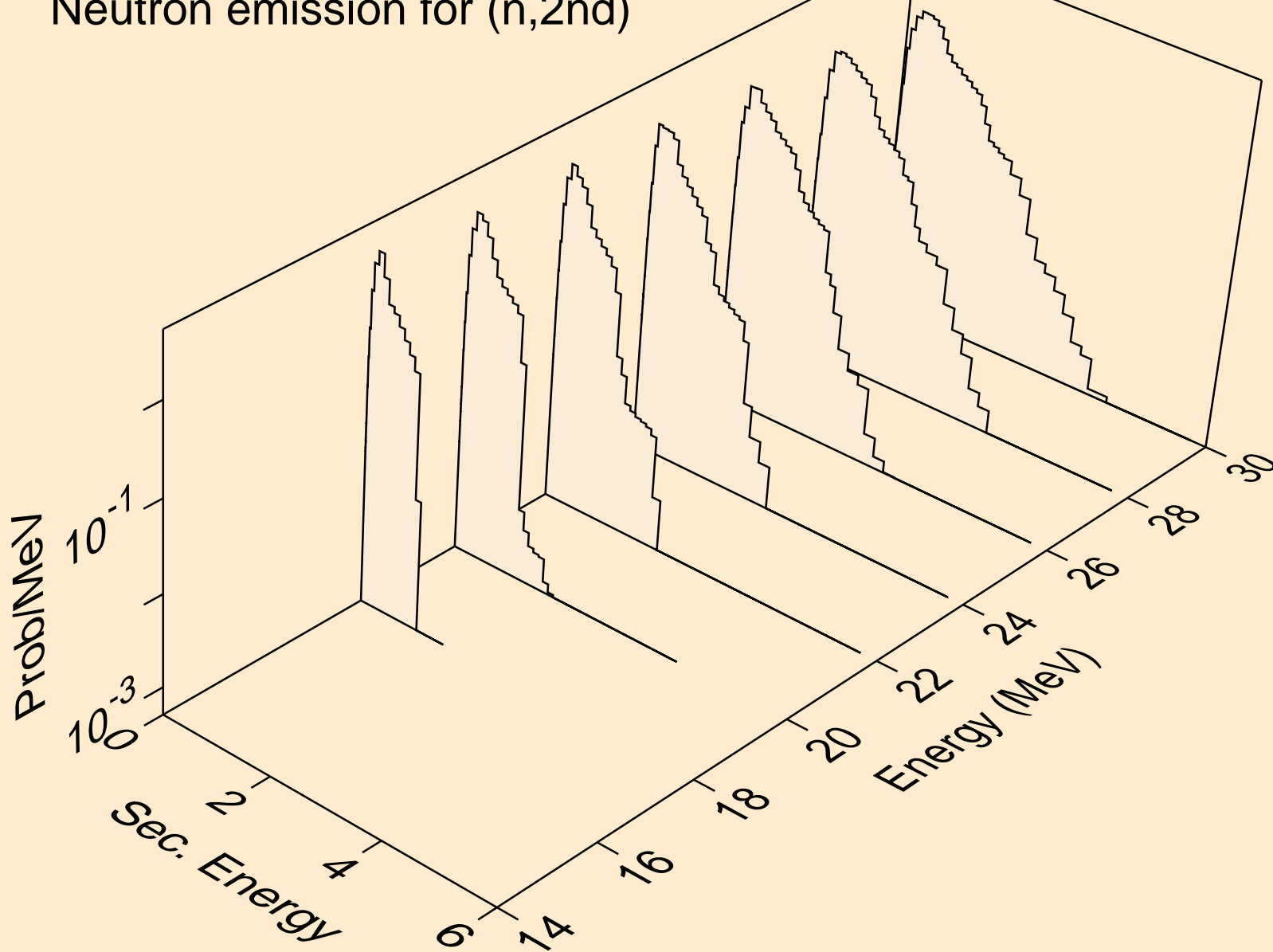
MD247 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Total fission nubar



MD247 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,x)

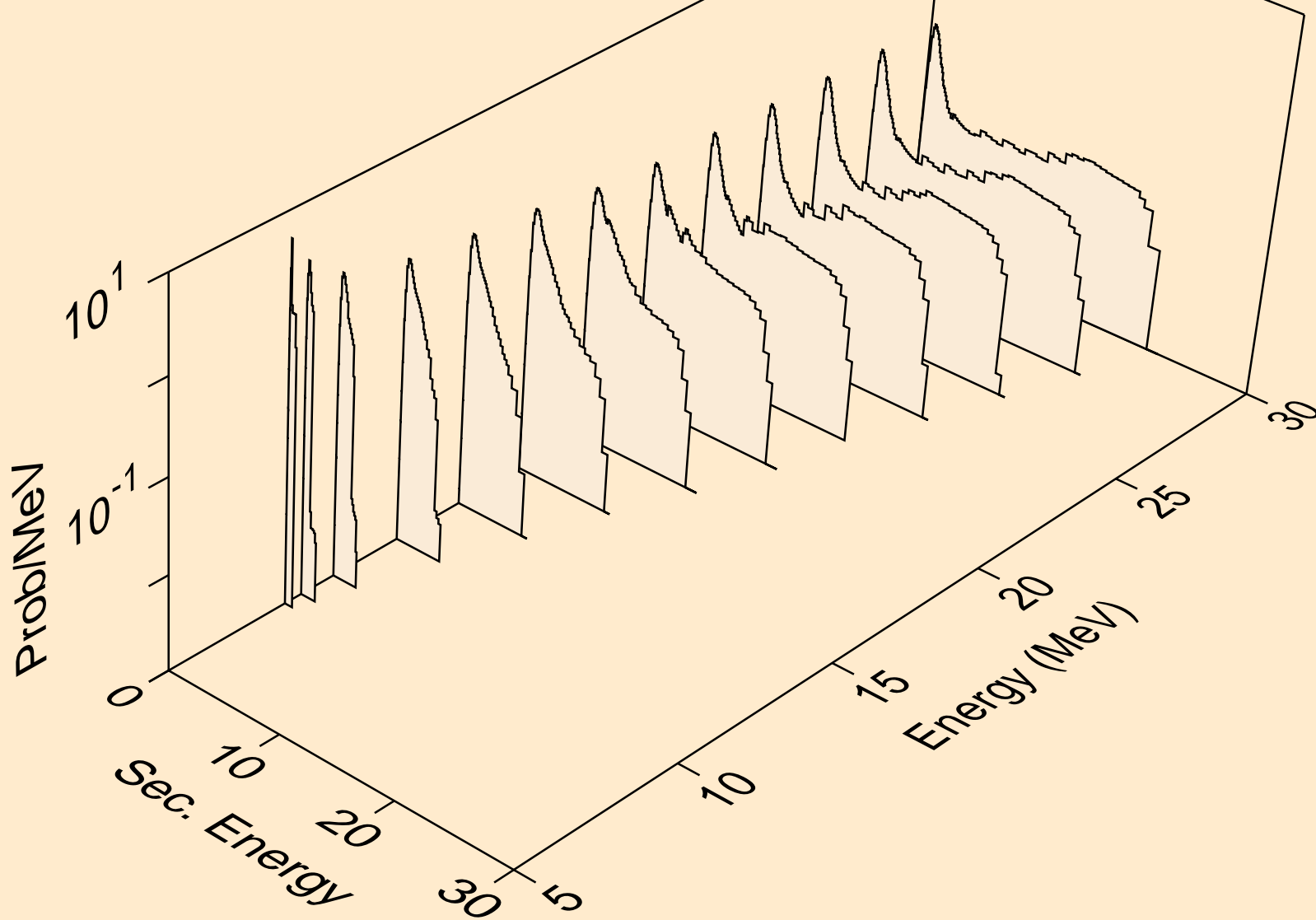


MD247 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,2nd)

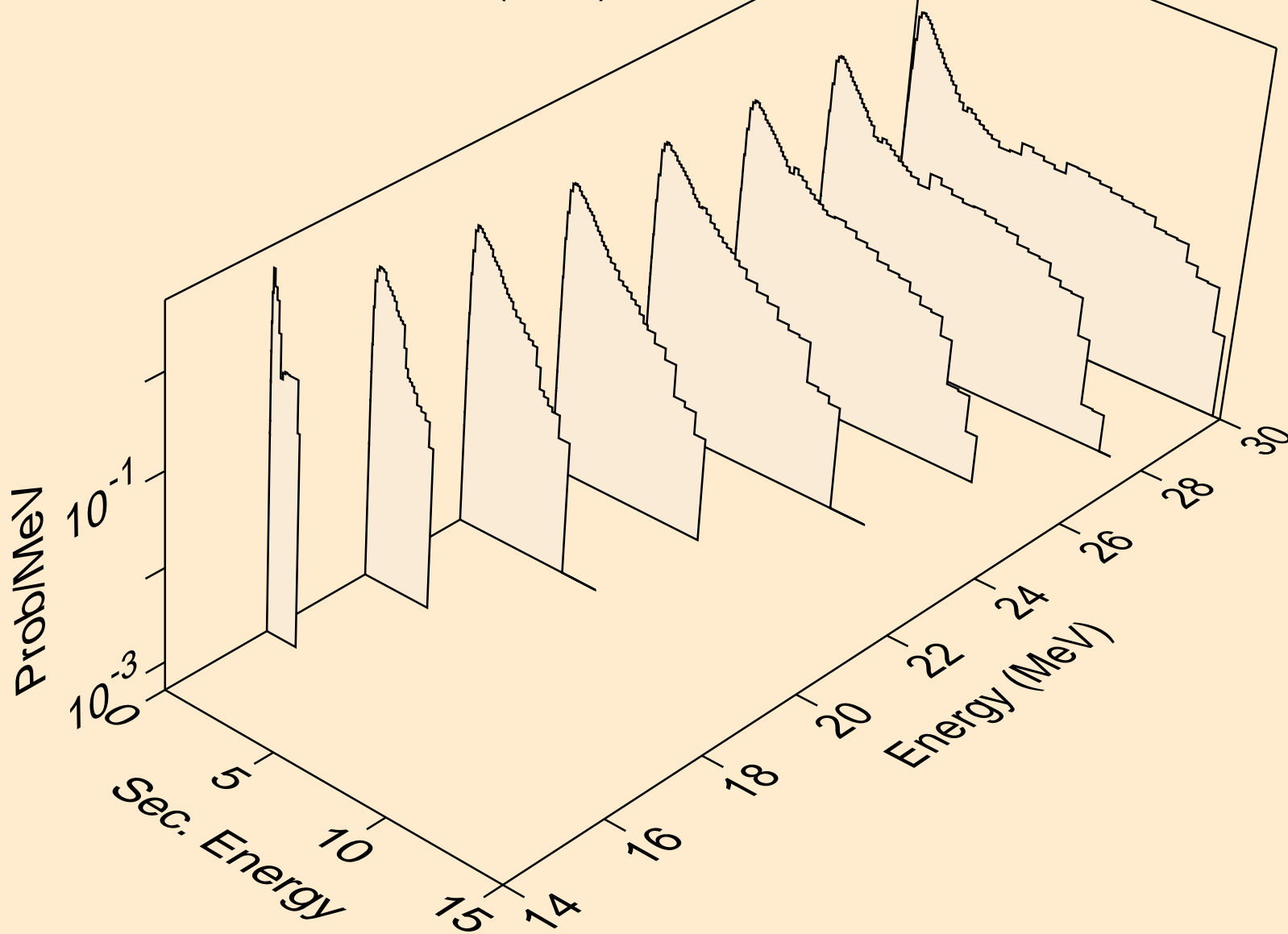




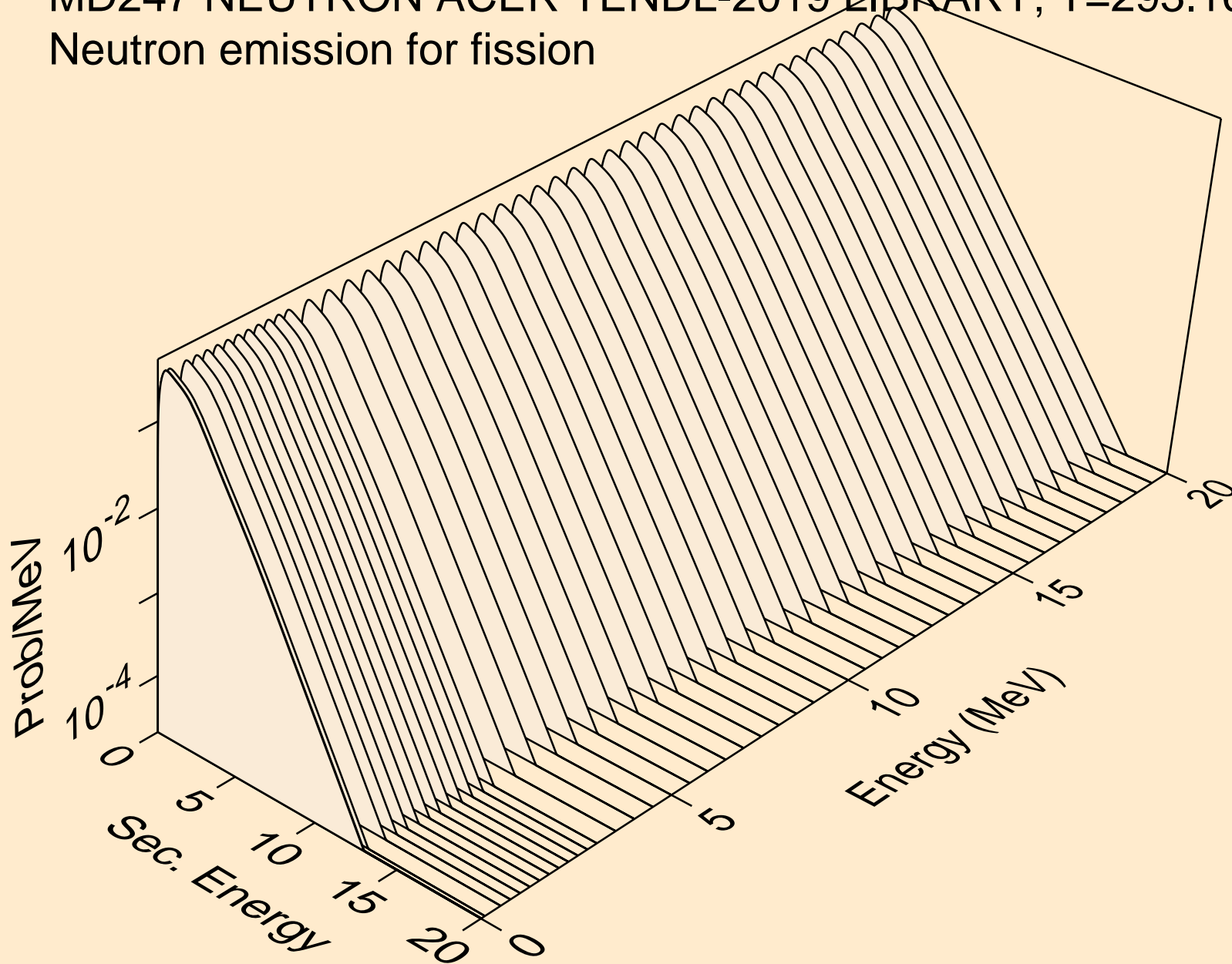
MD247 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,2n)



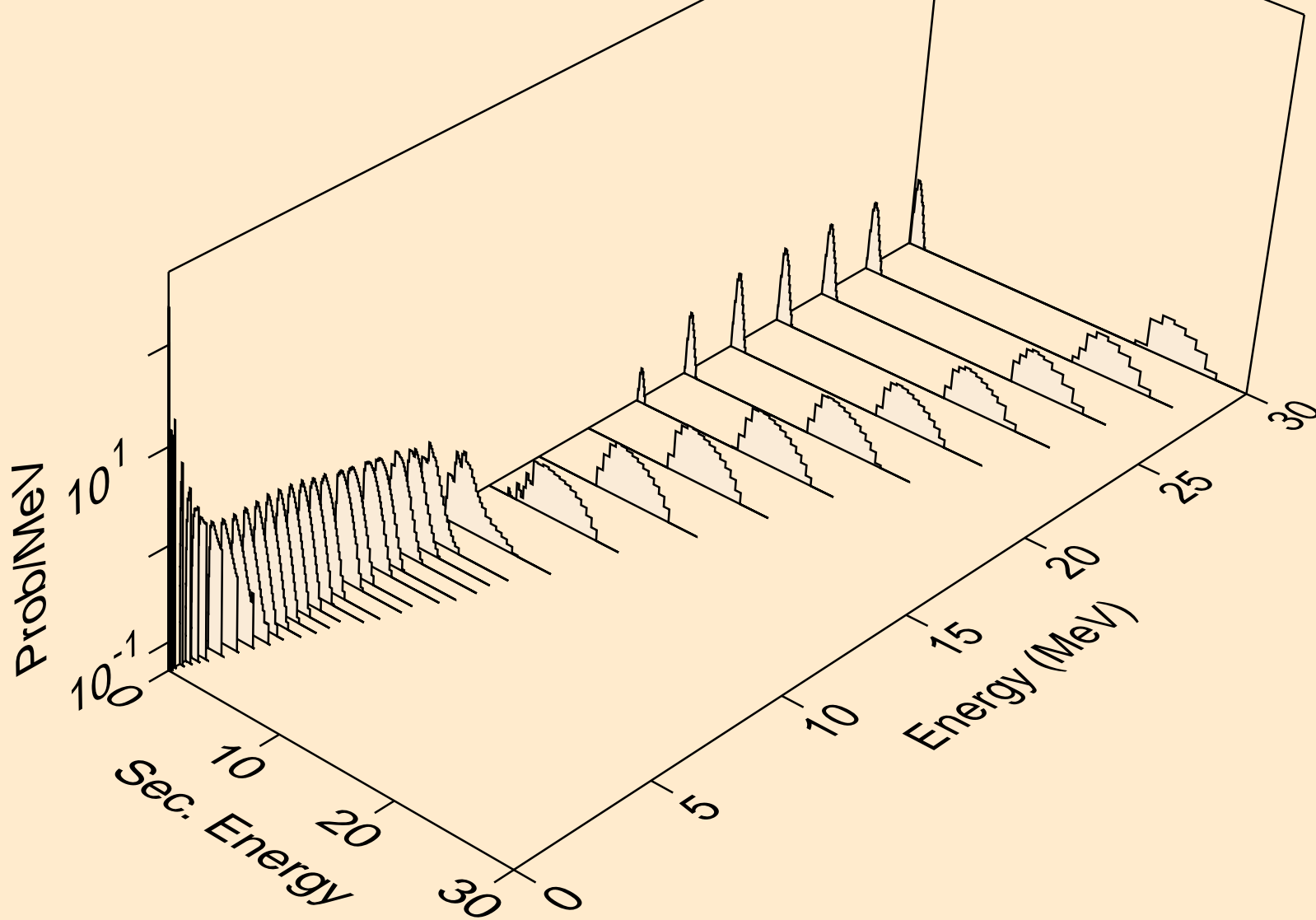
MD247 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,3n)



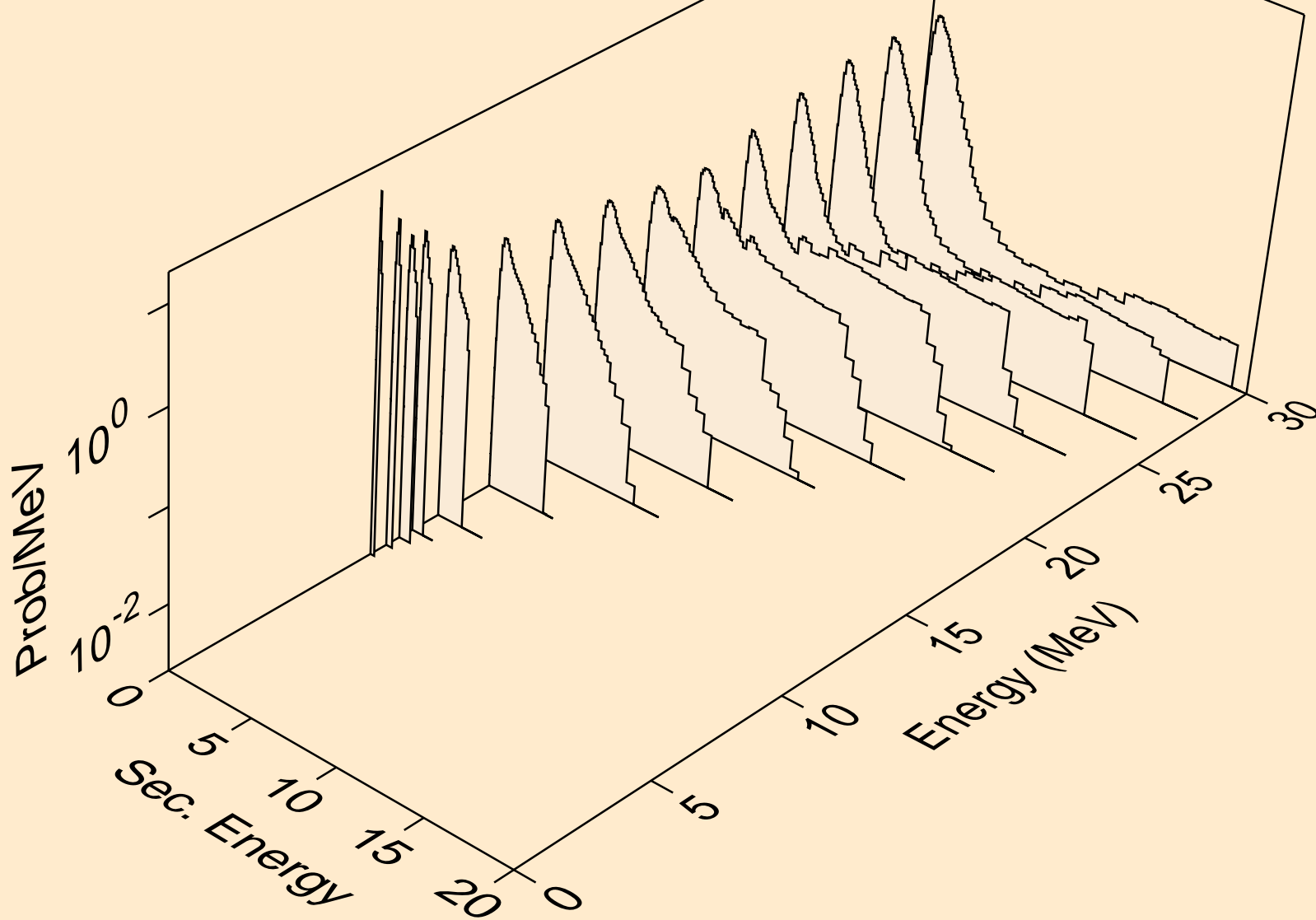
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Neutron emission for fission



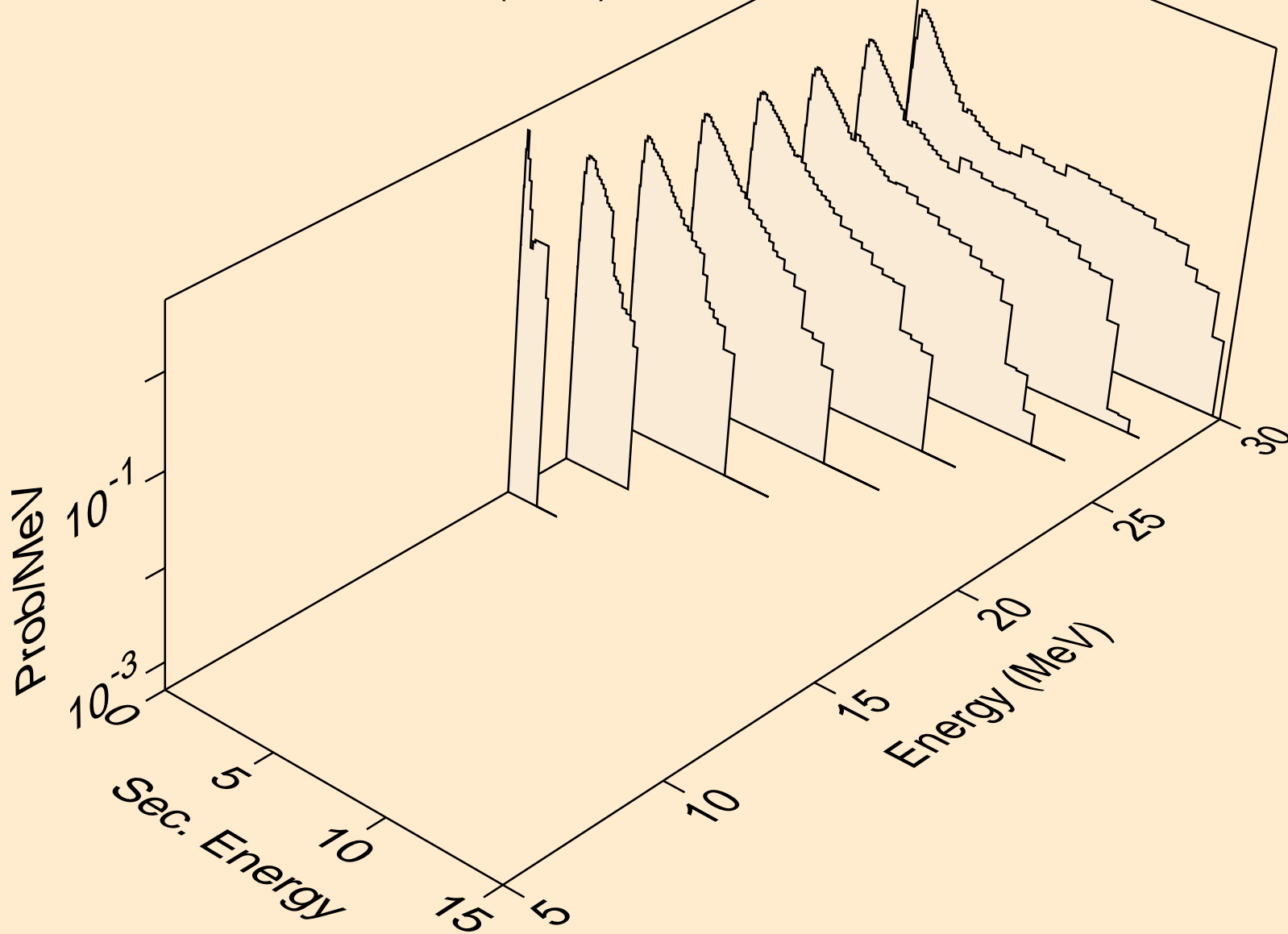
MD247 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,n\*)a



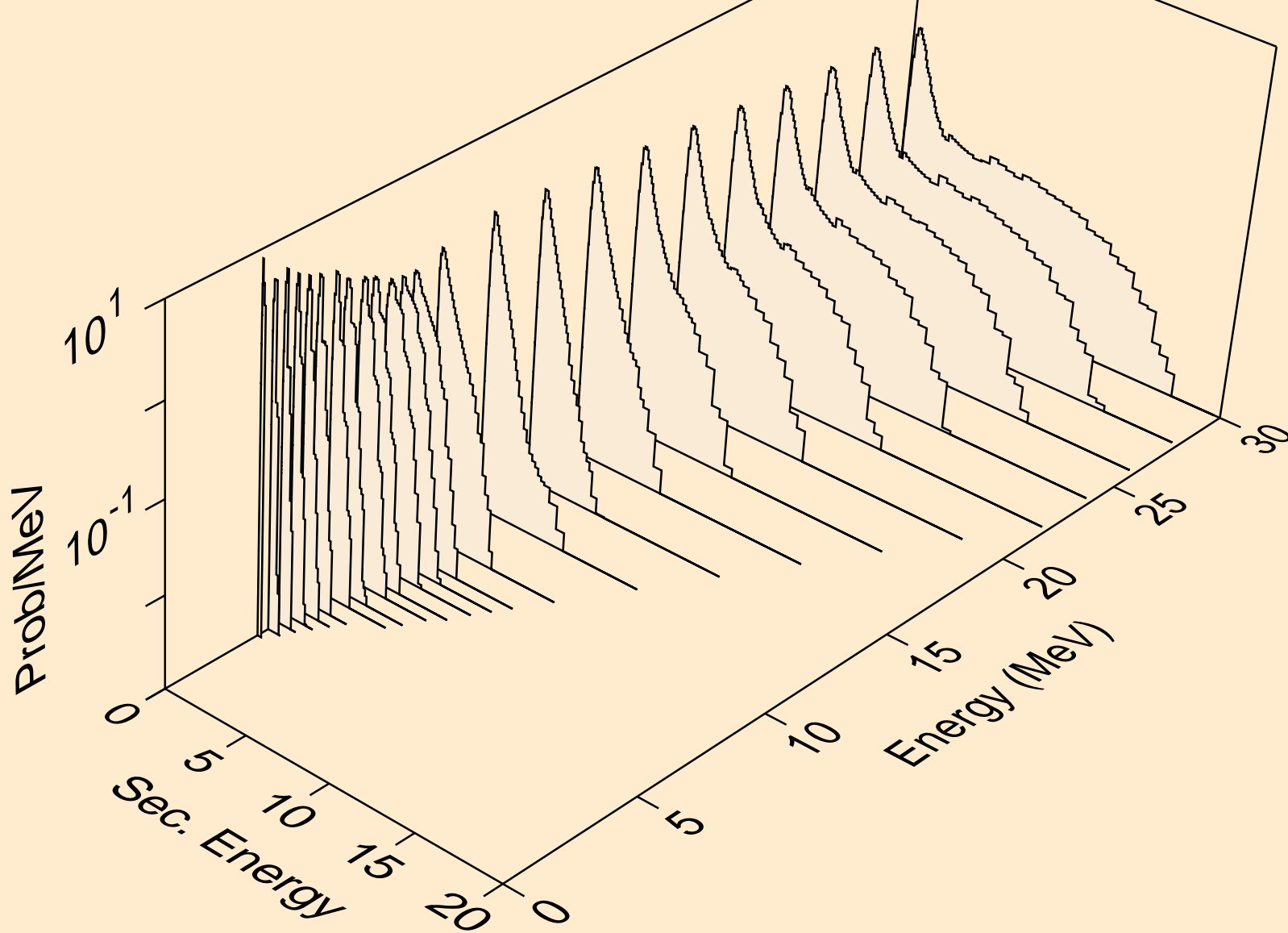
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Neutron emission for (n,2n)a



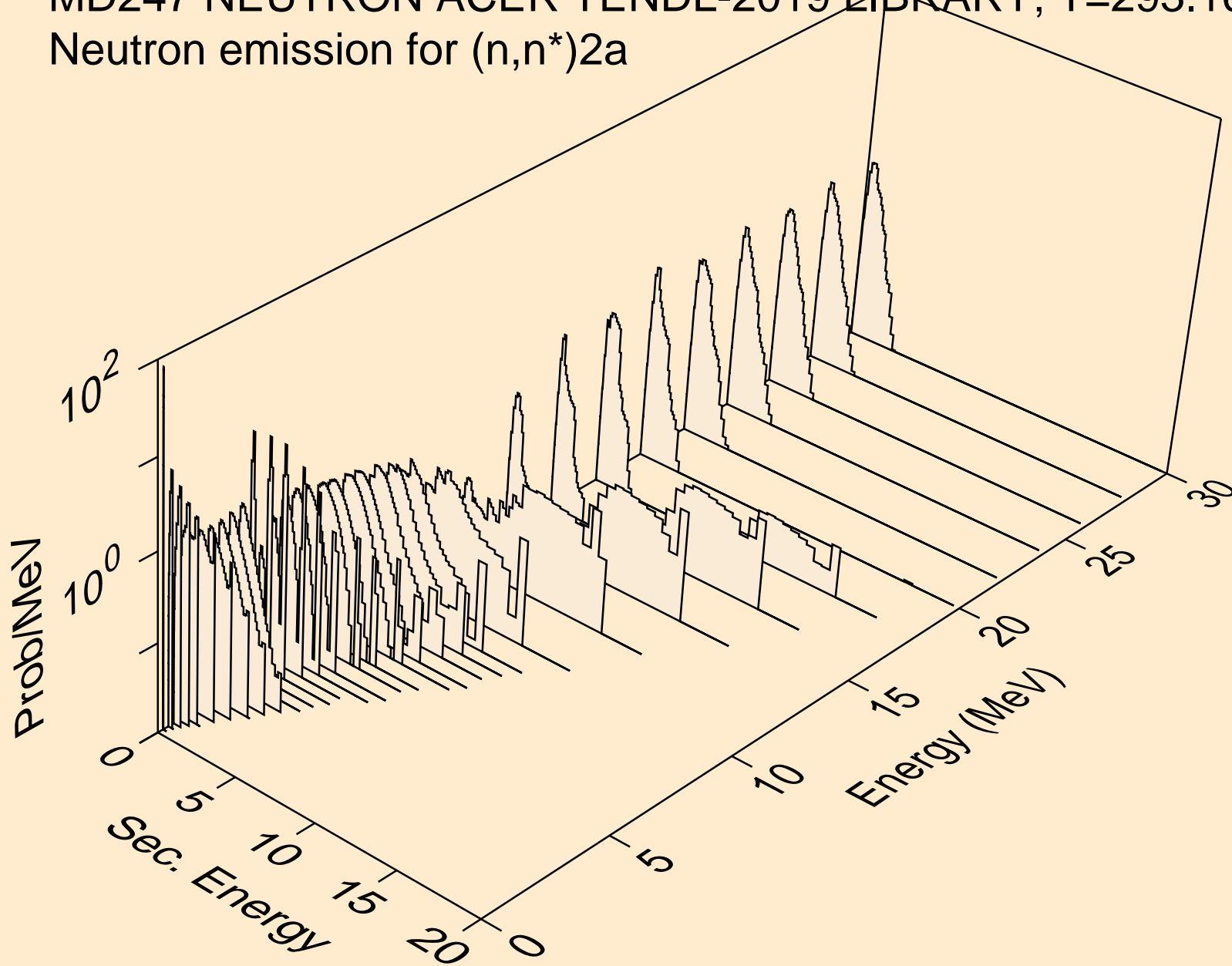
MD247 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,3n)a



MD247 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,n\*)p

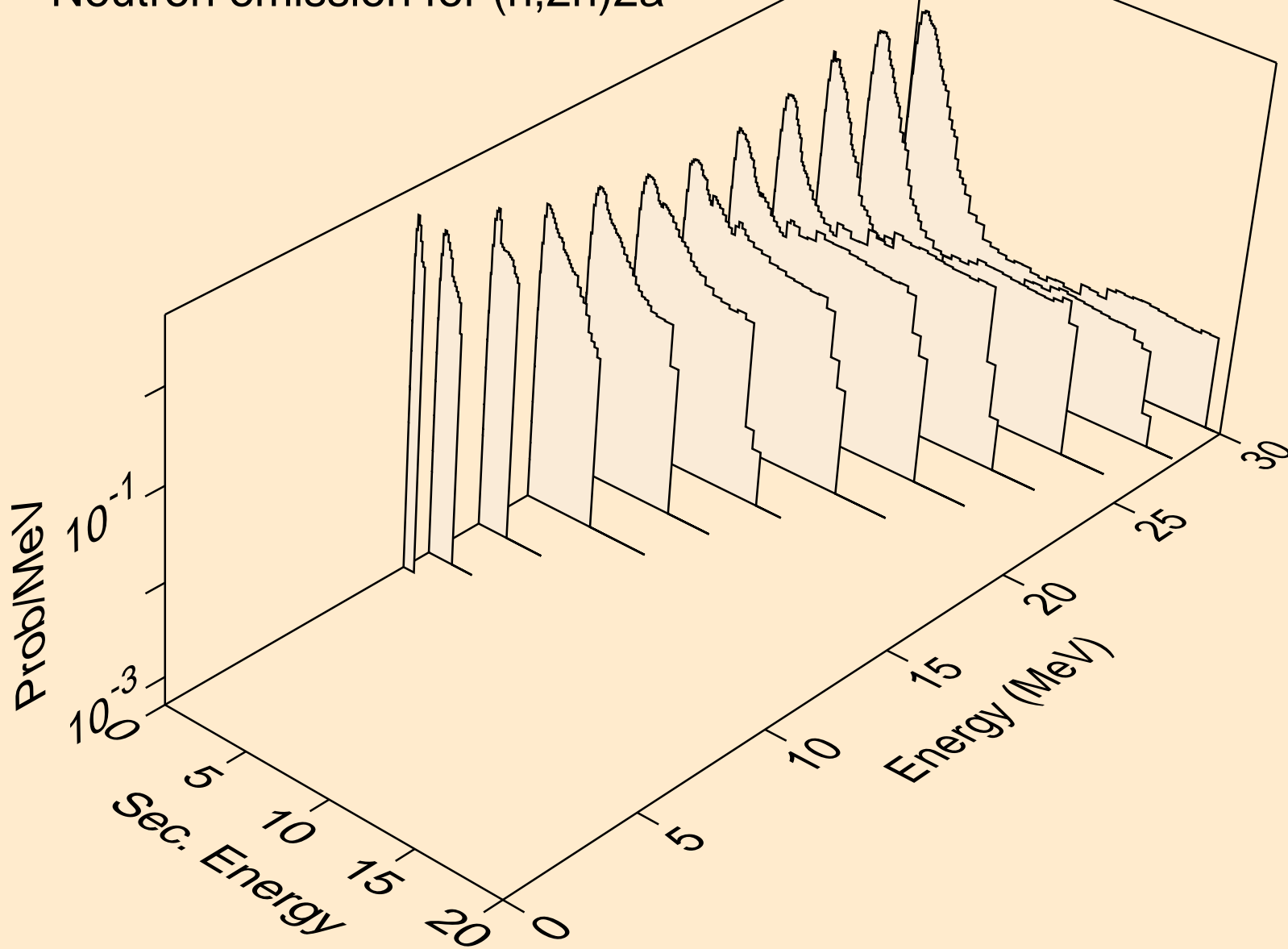


MD247 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,n\*)2a

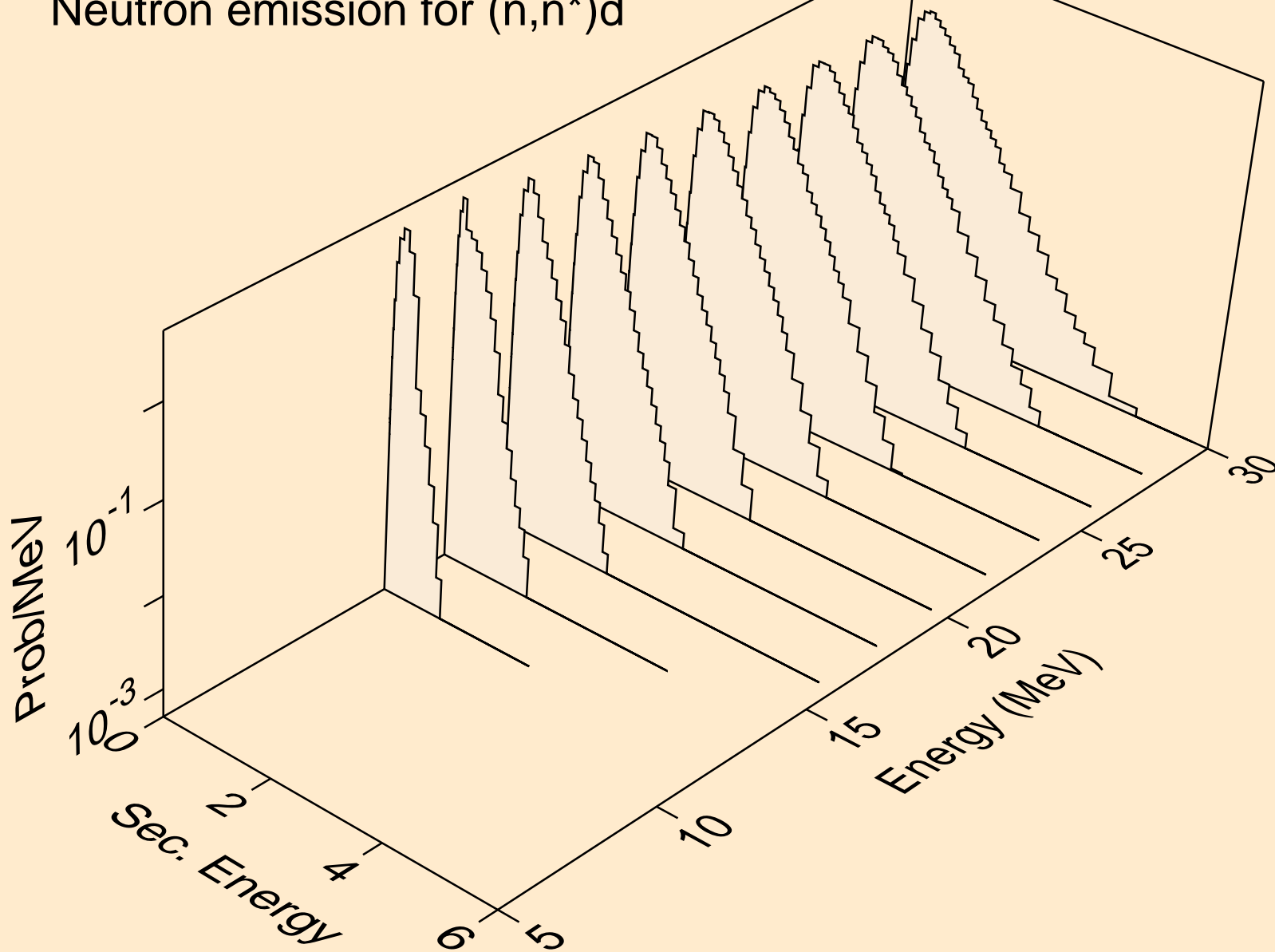




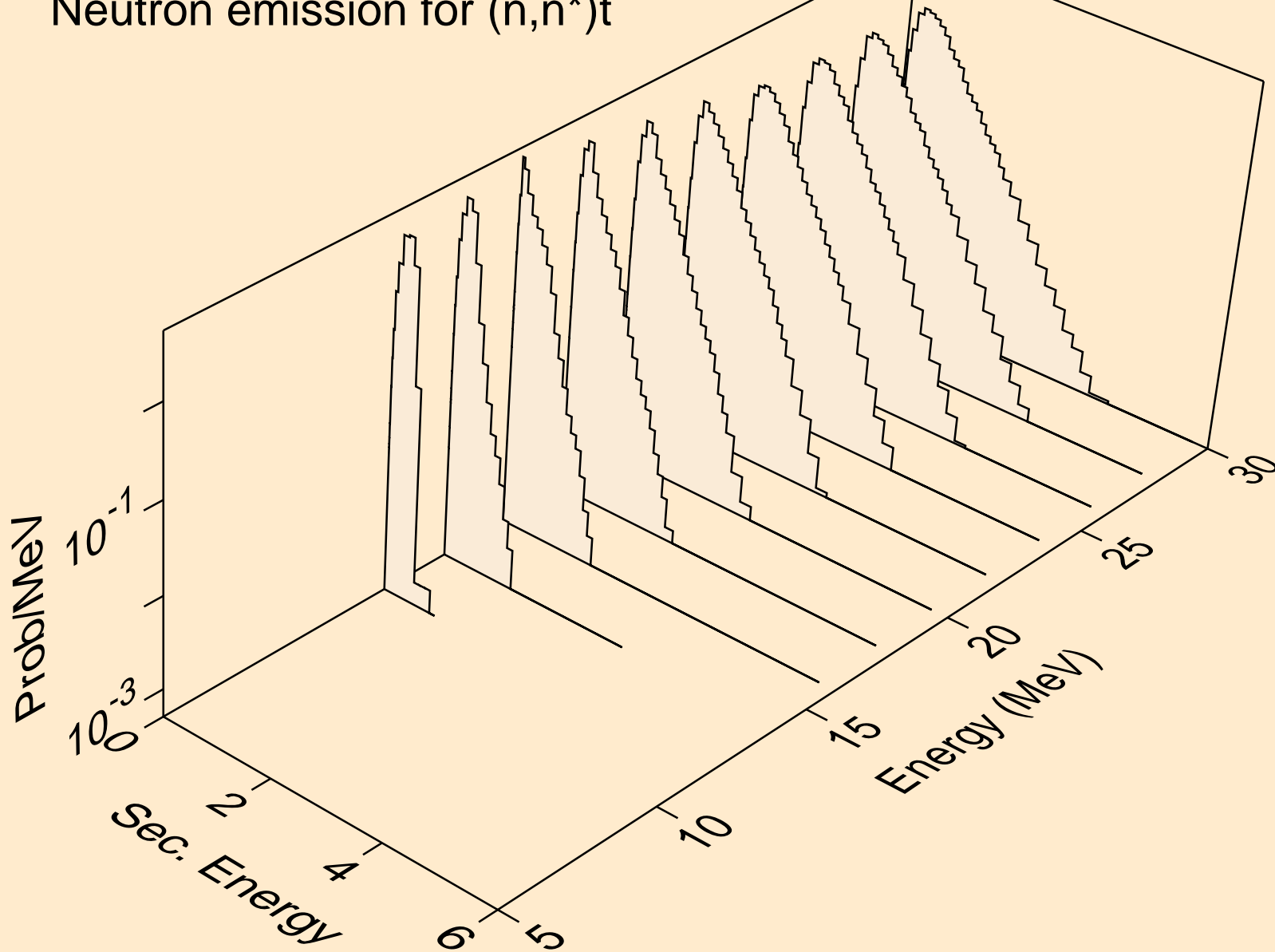
MD247 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,2n)2a



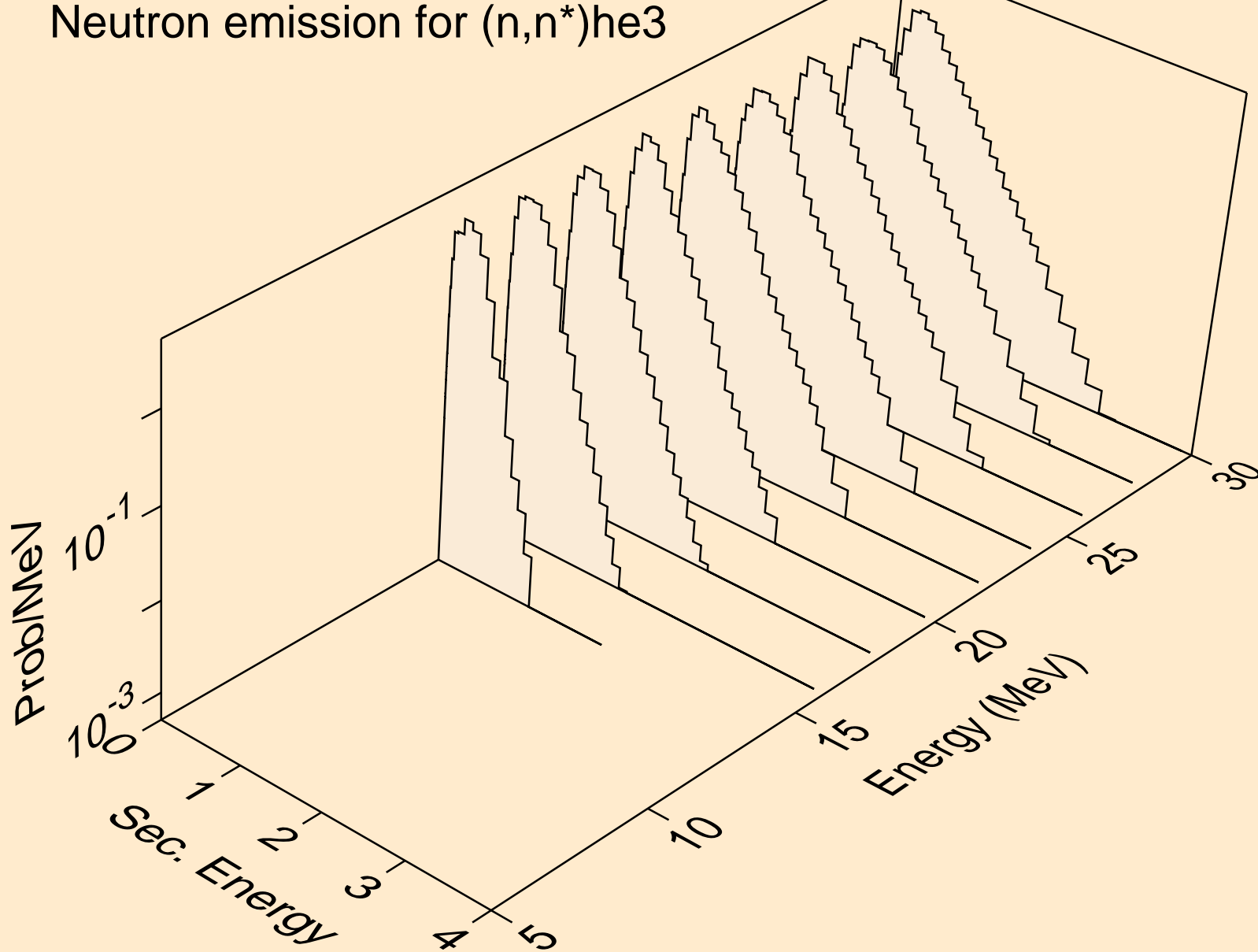
MD247 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,n\*)d



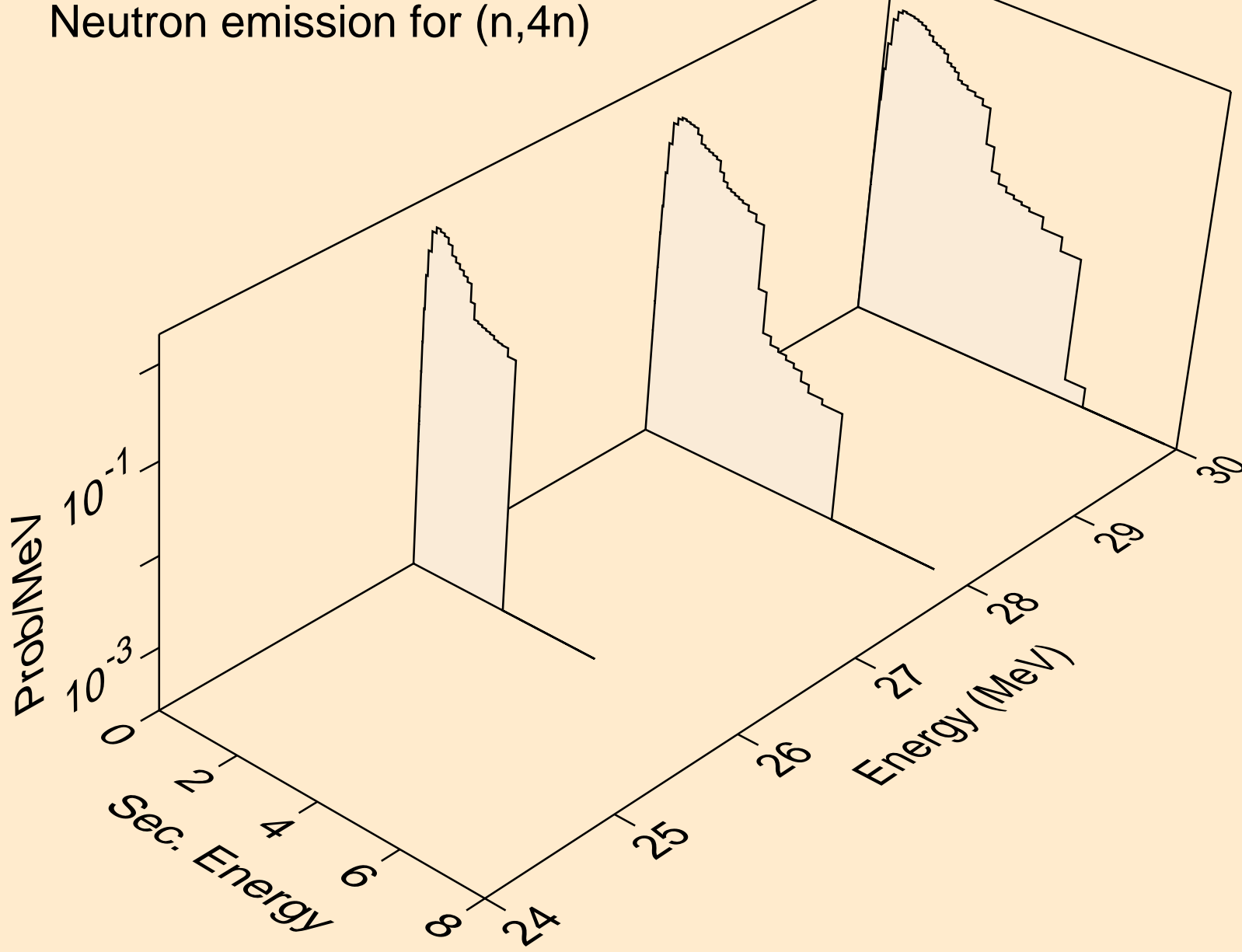
MD247 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,n\*)t



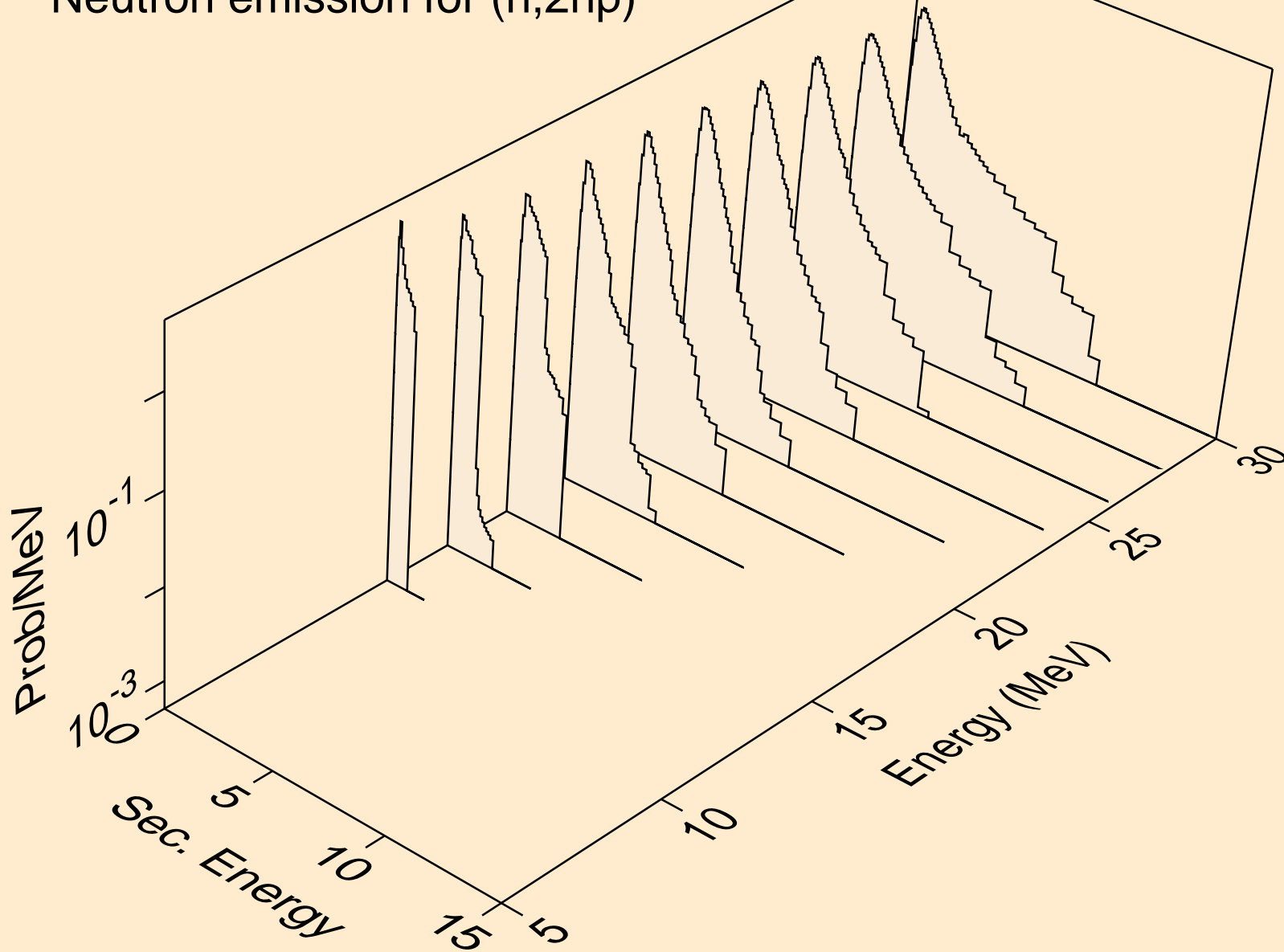
MD247 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,n\*)he3



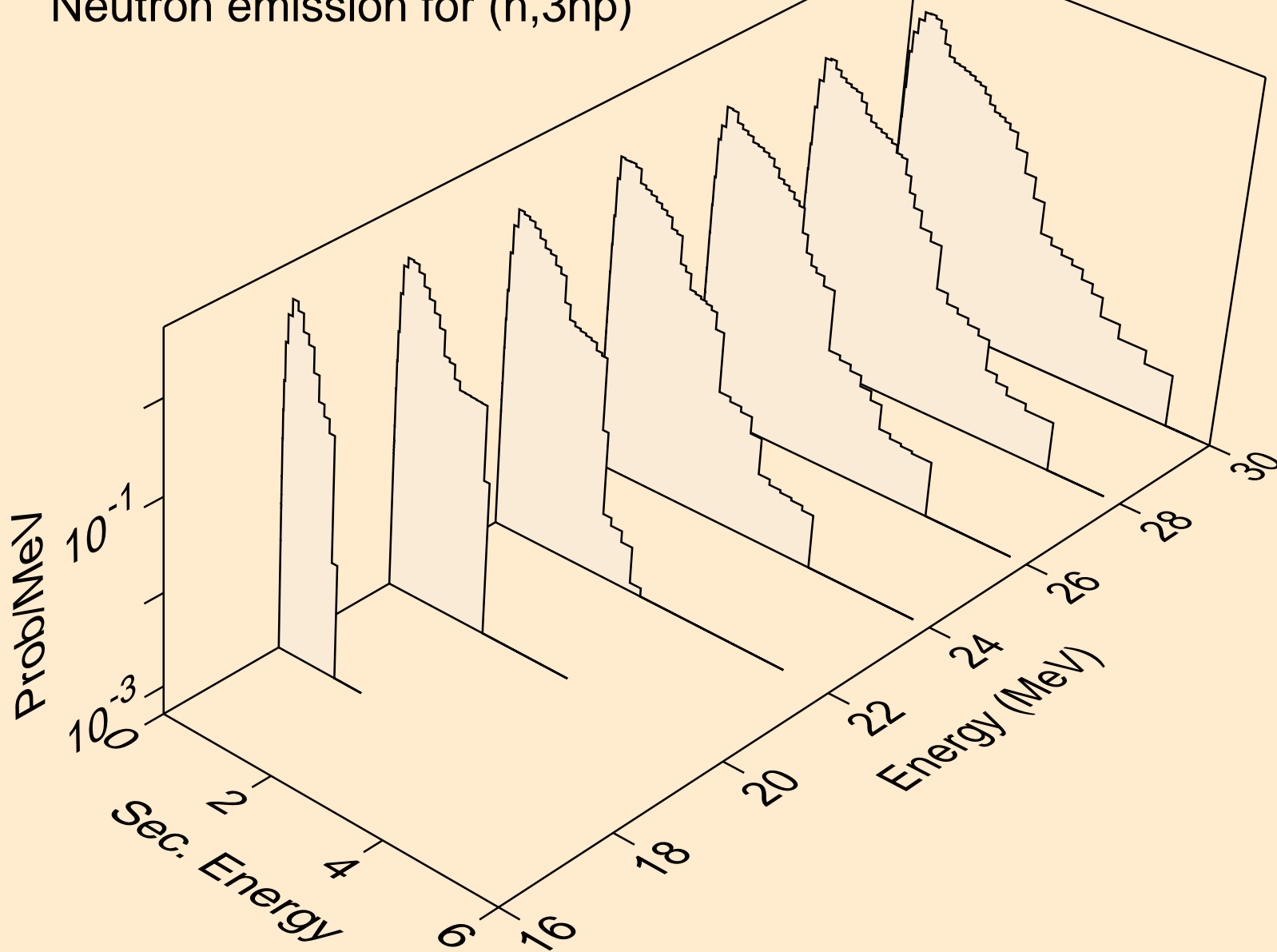
MD247 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,4n)



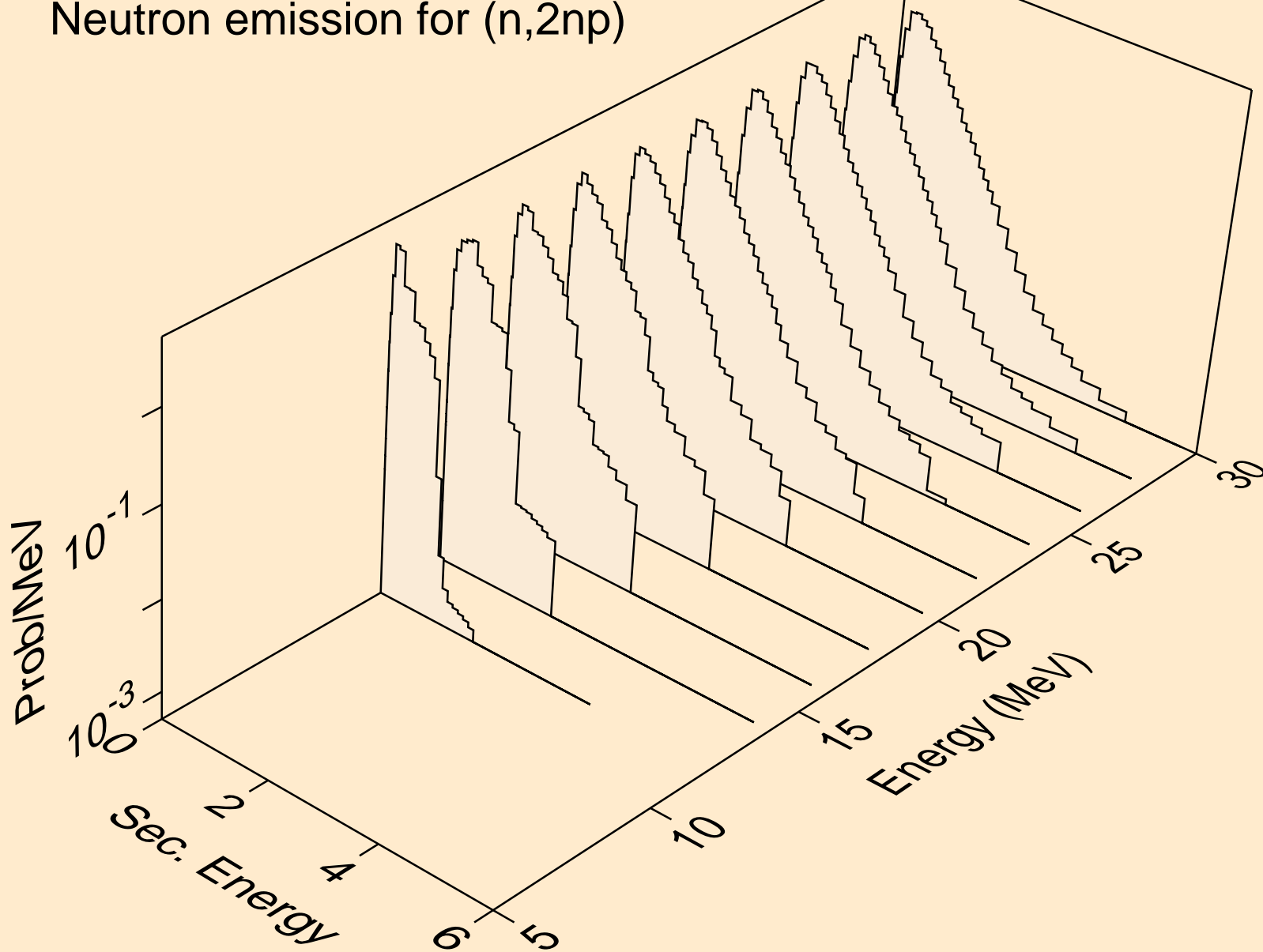
MD247 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,2np)



MD247 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,3np)

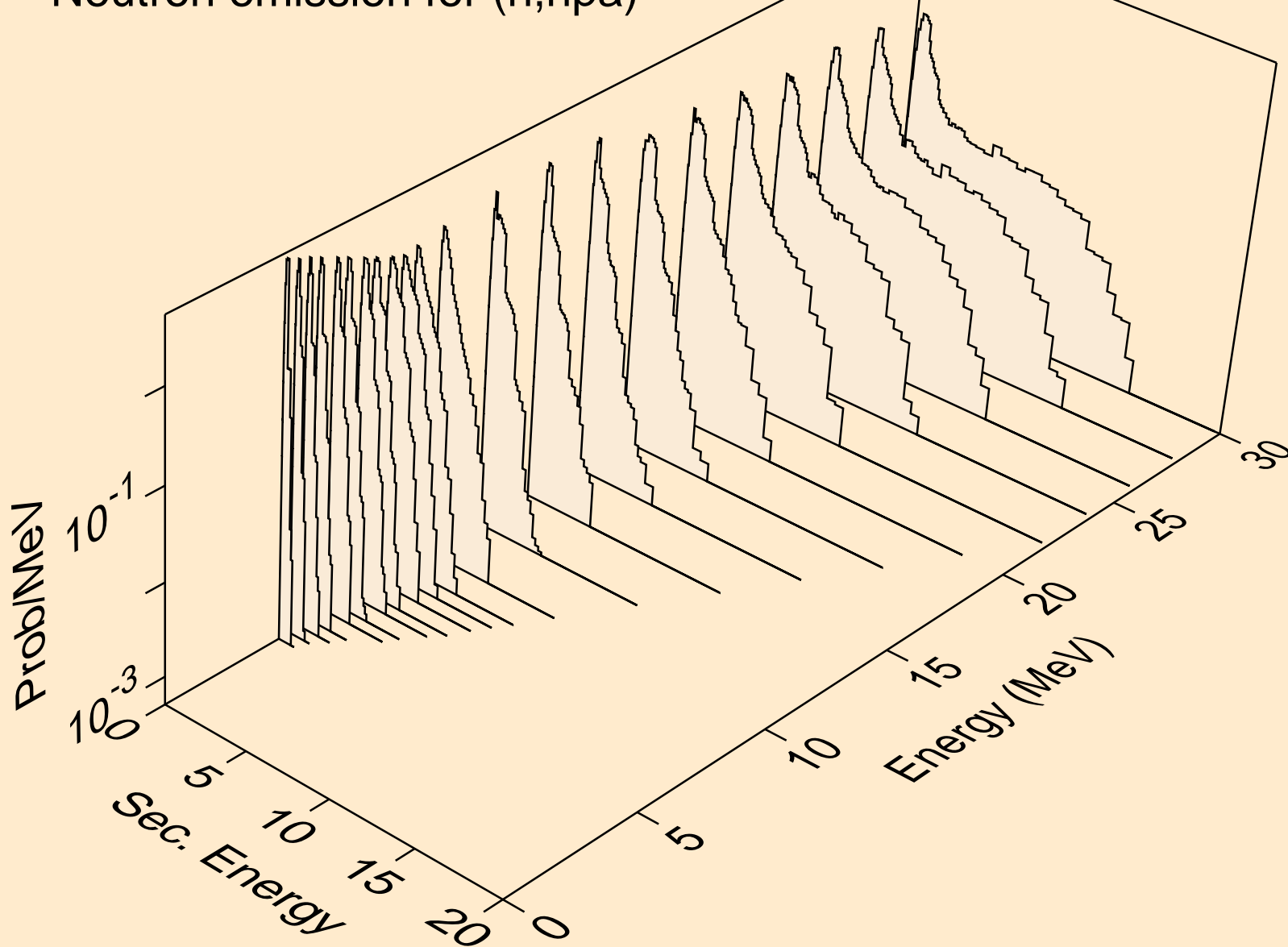


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Neutron emission for (n,2np)

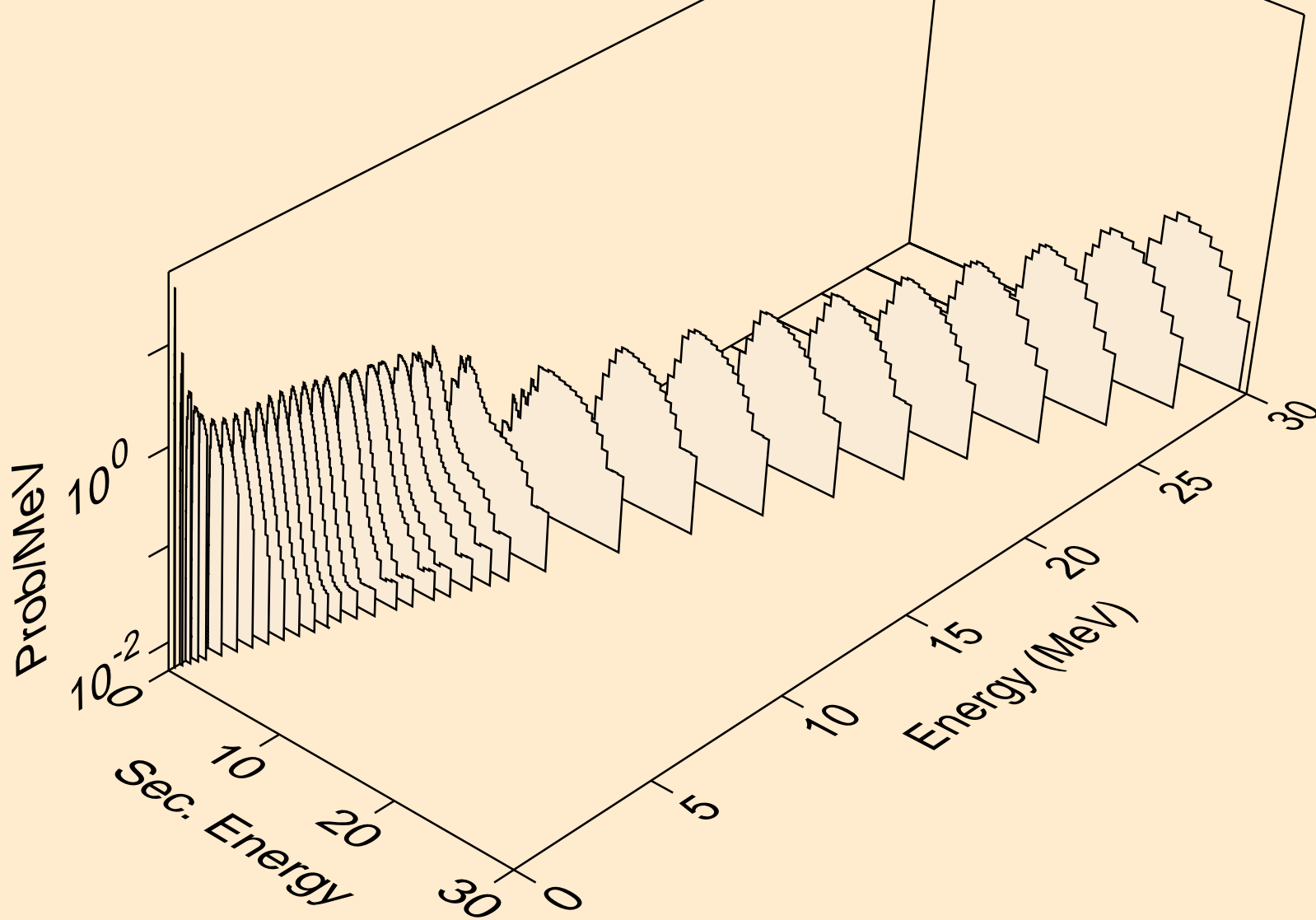




MD247 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,npa)

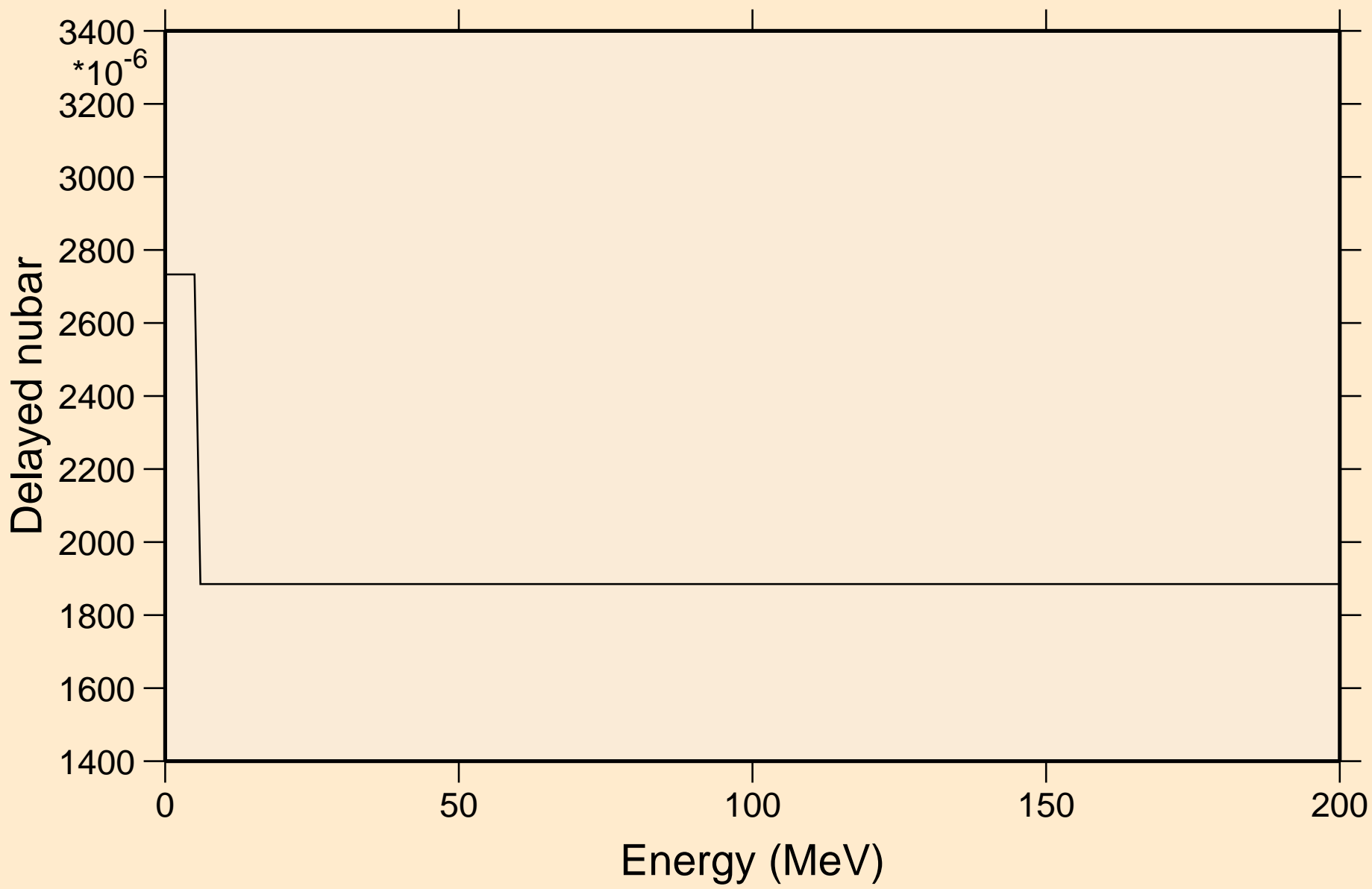


MD247 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,n\*c)



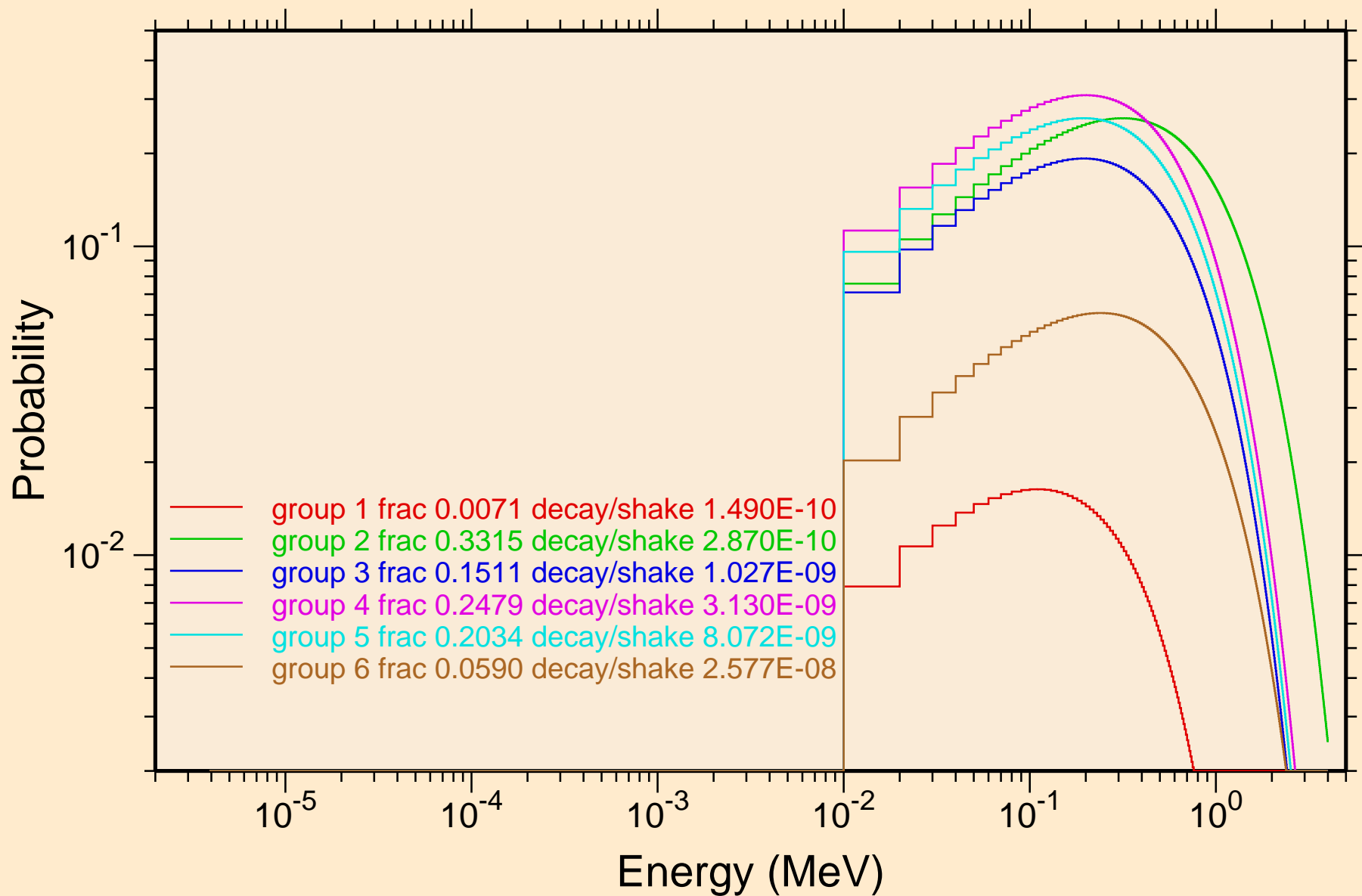
# MD247 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K

## Delayed nubar

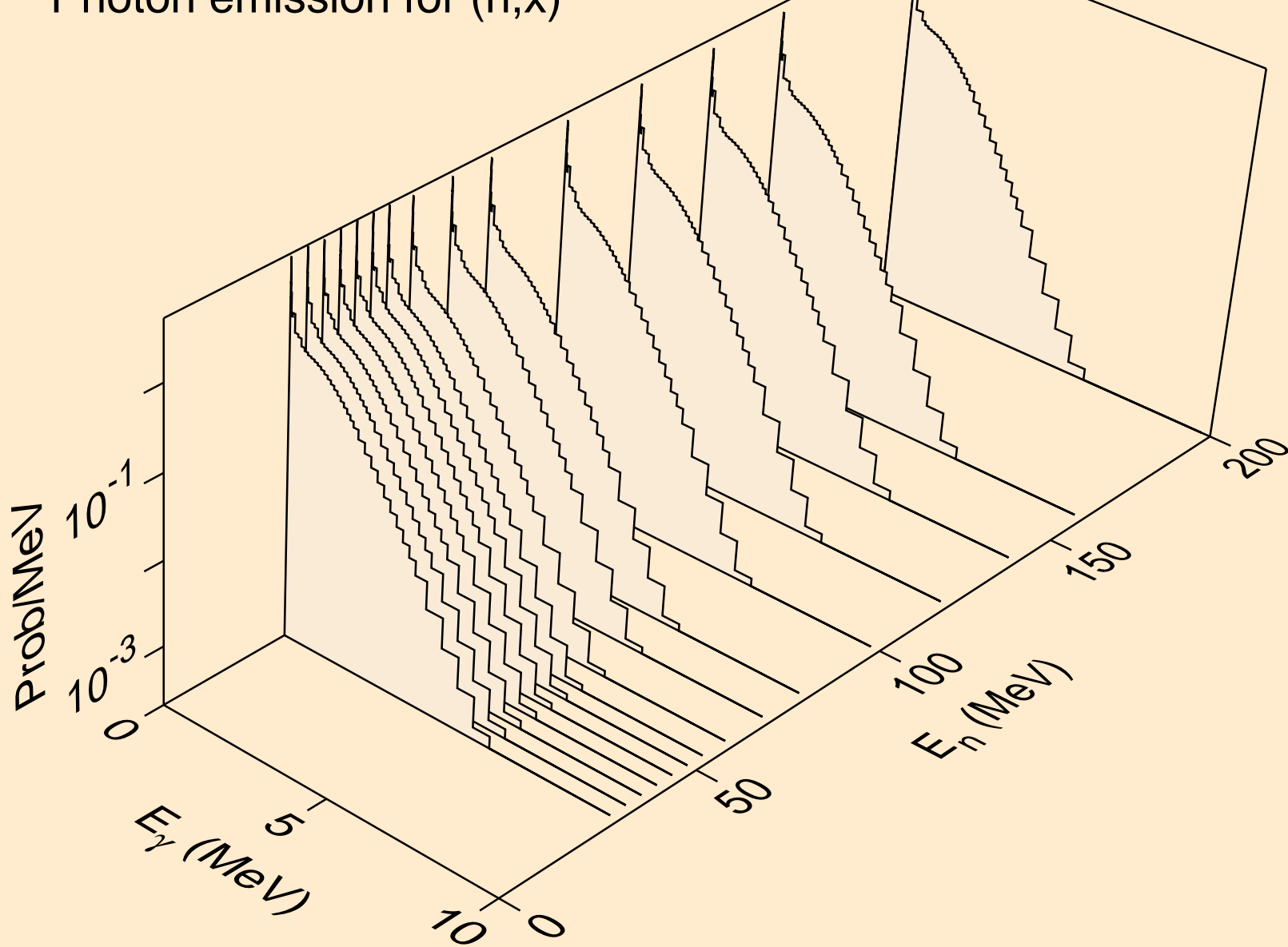


# MD247 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K

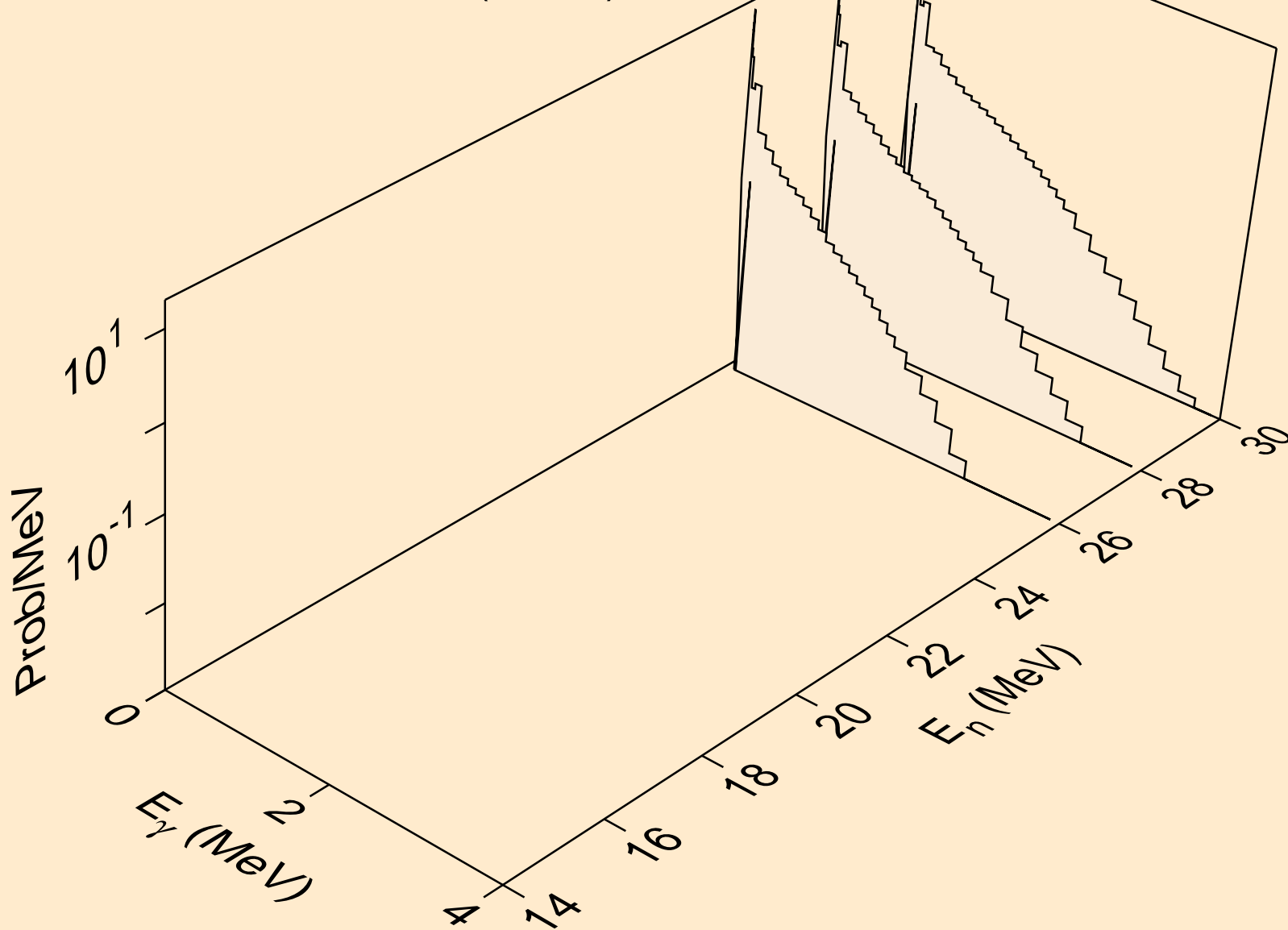
## Delayed neutron spectra



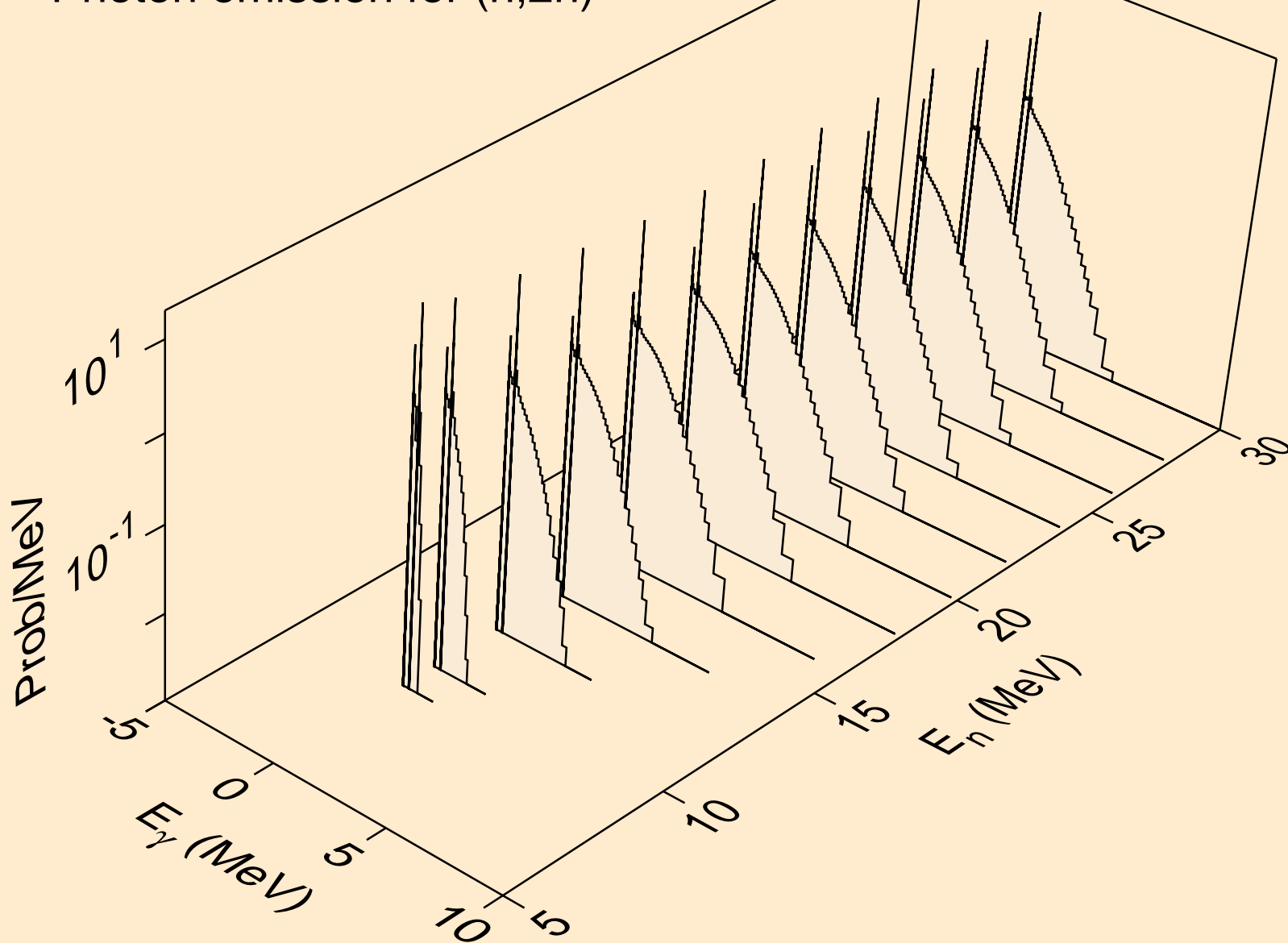
MD247 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,x)



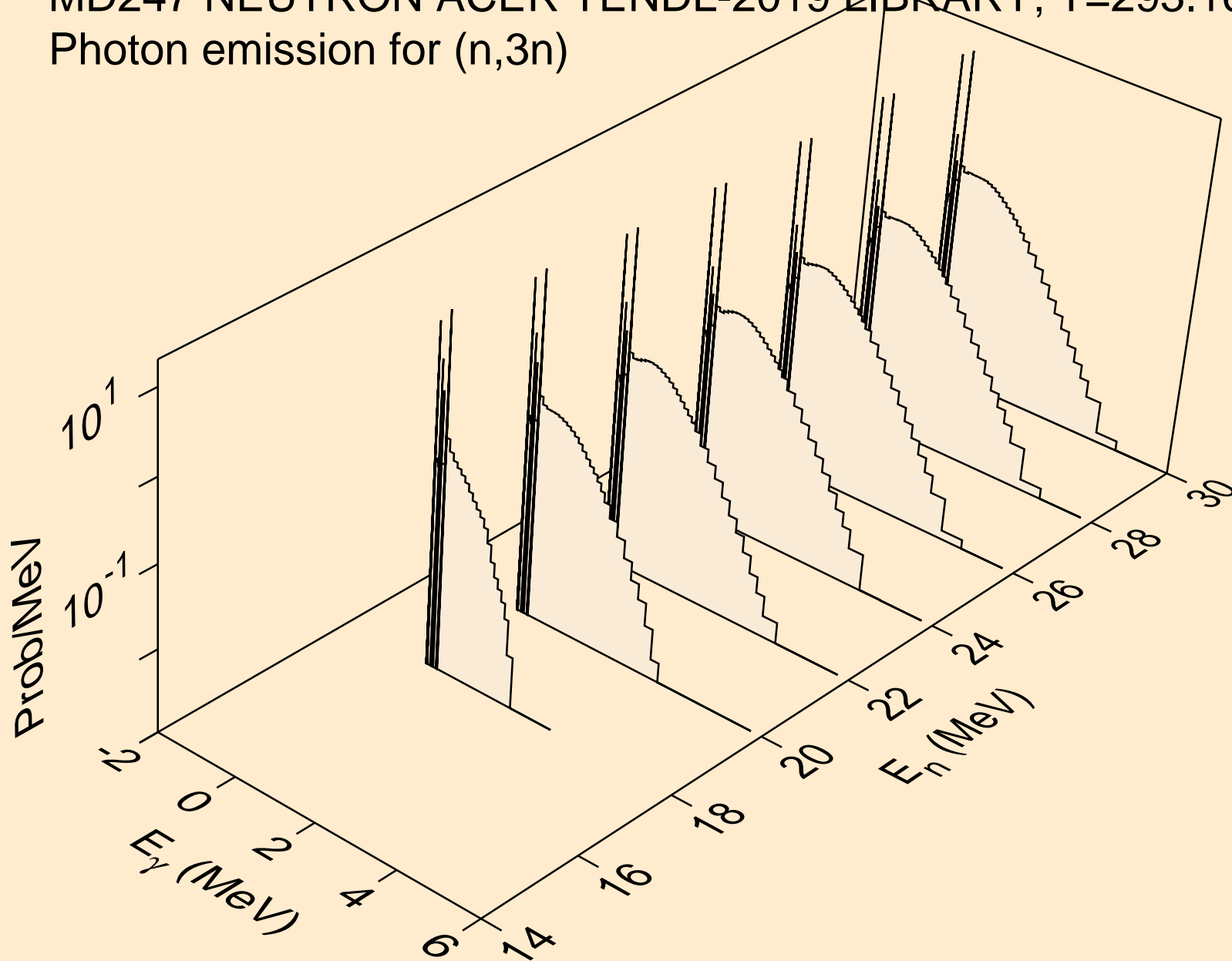
MD247 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,2nd)



MD247 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,2n)

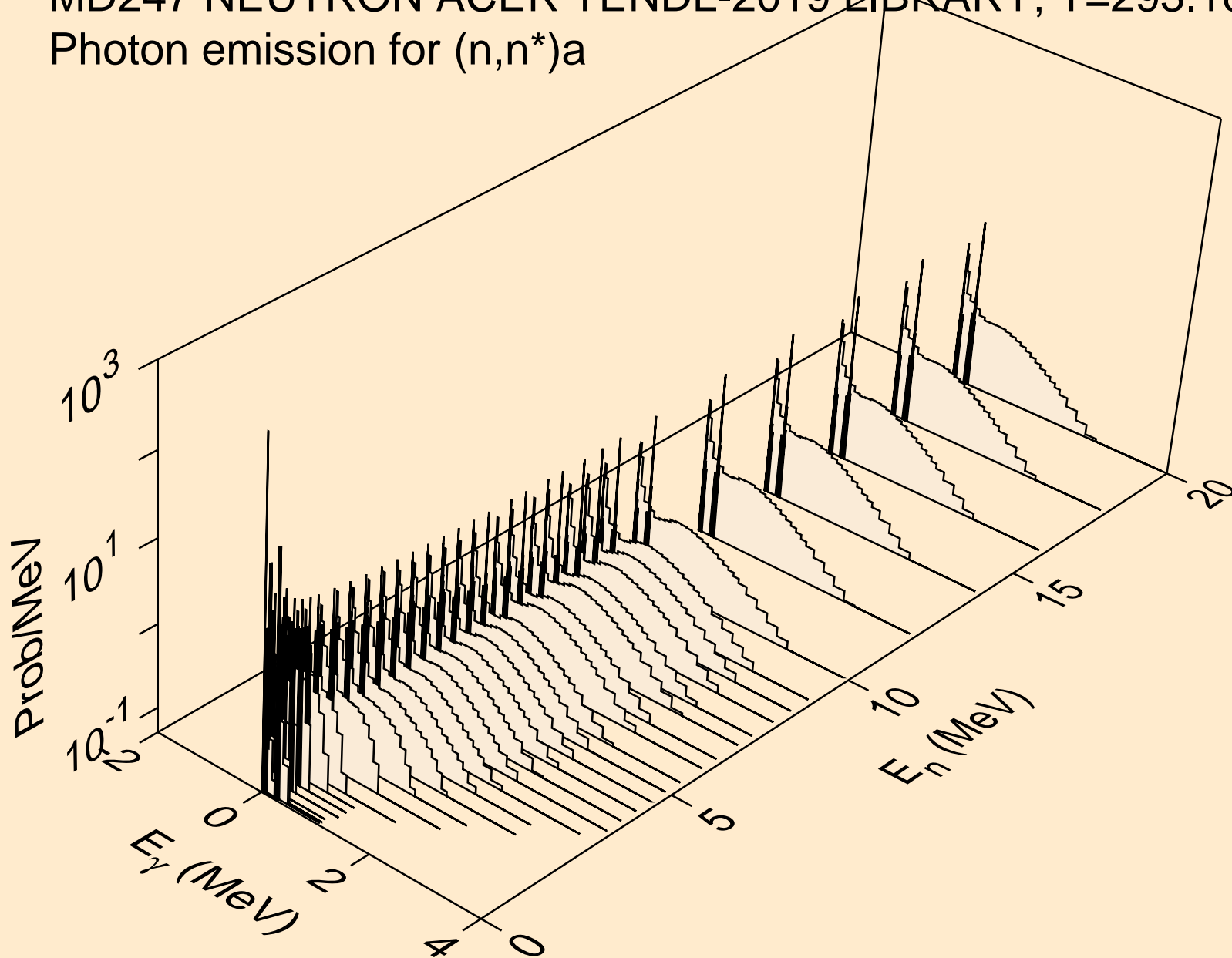


MD247 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,3n)

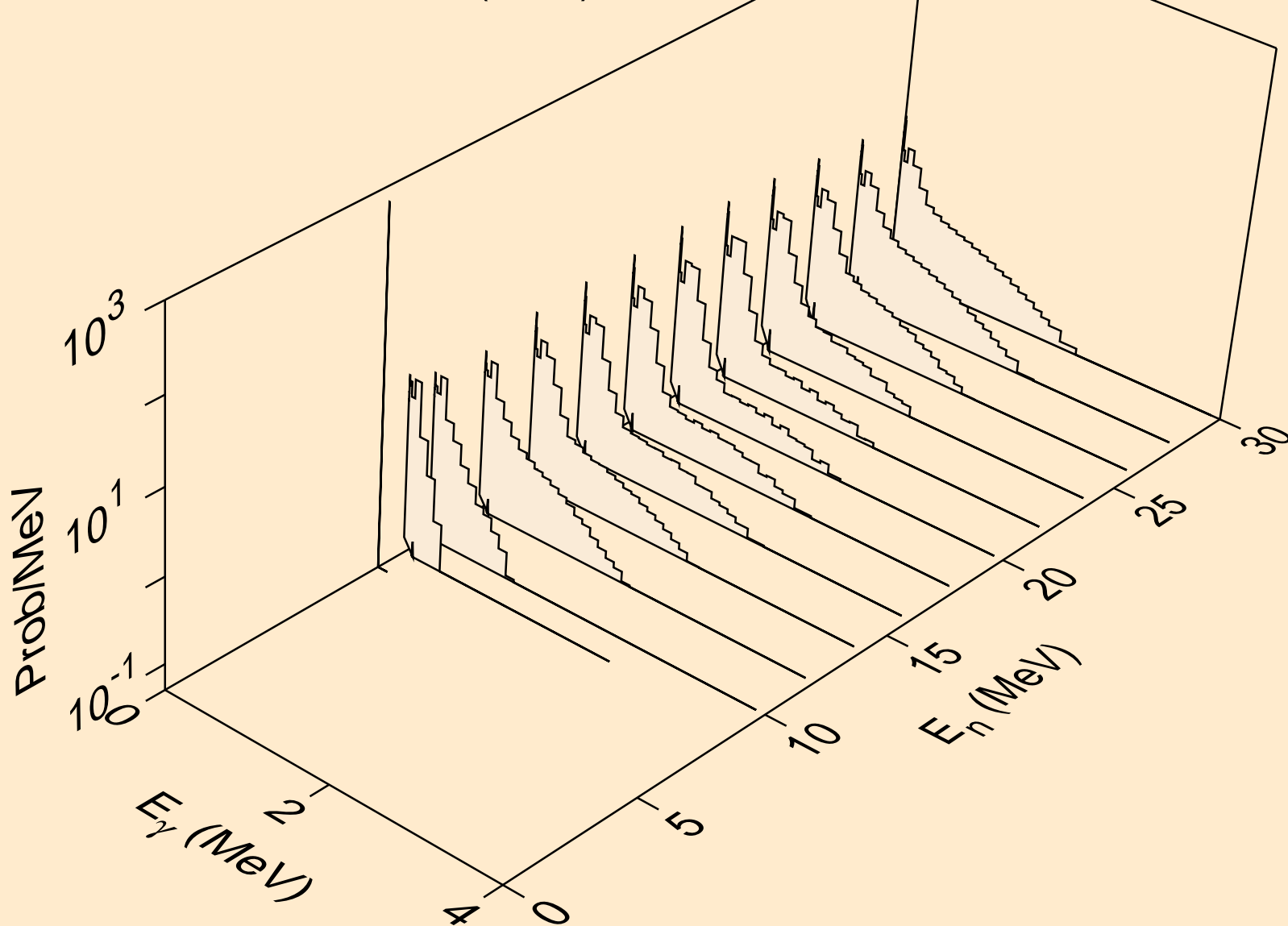




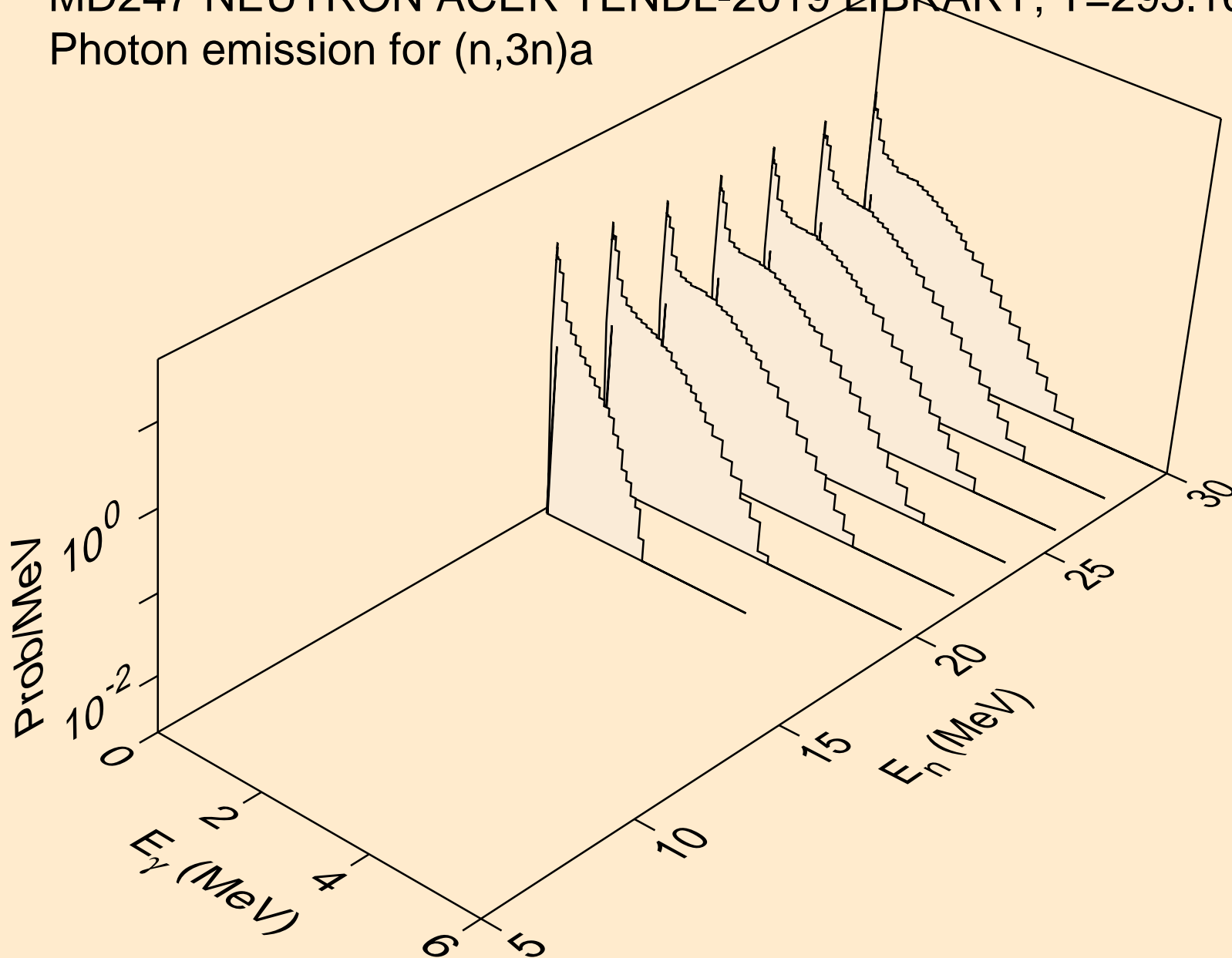
MD247 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,n\*)a



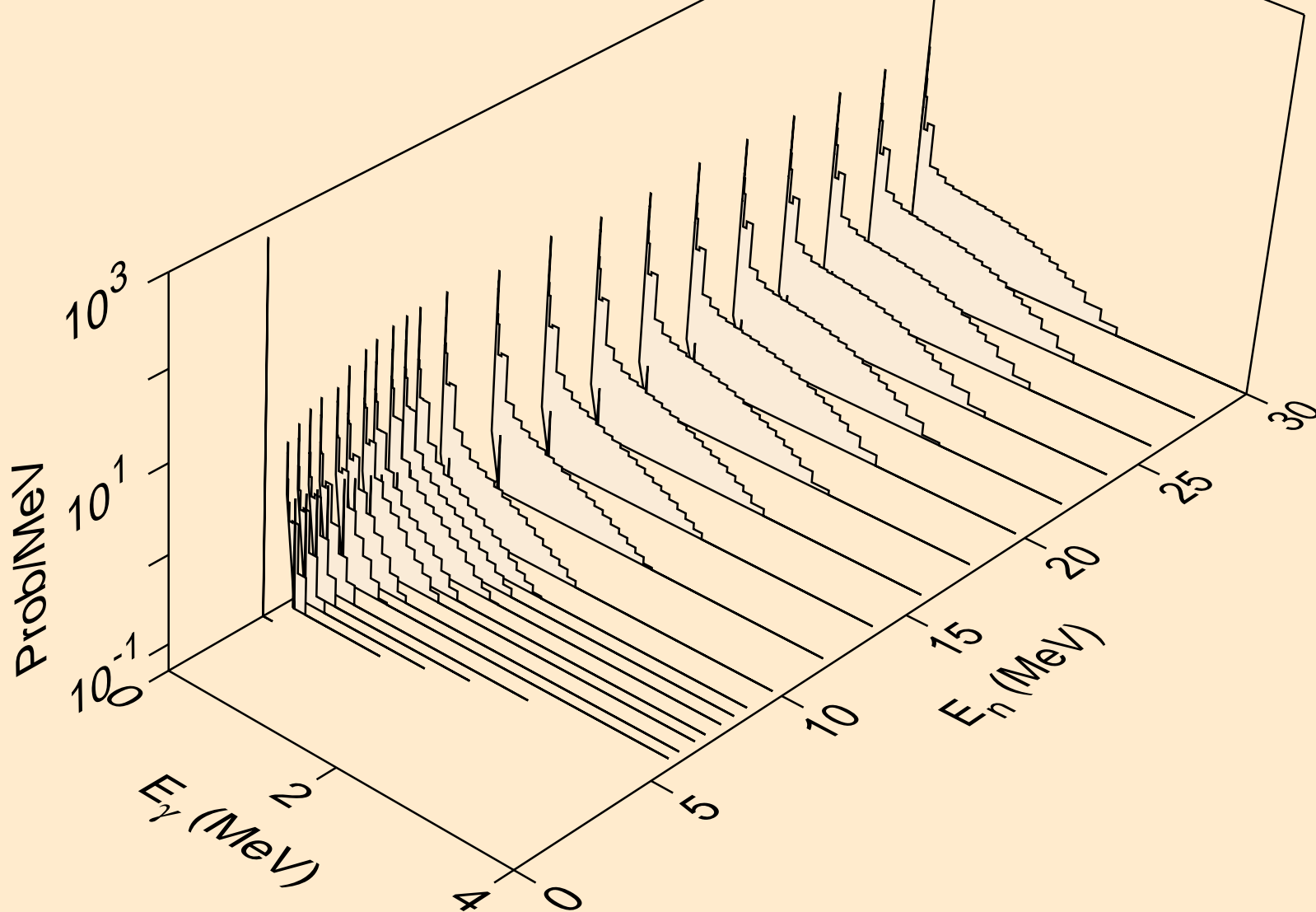
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Photon emission for (n,2n)a



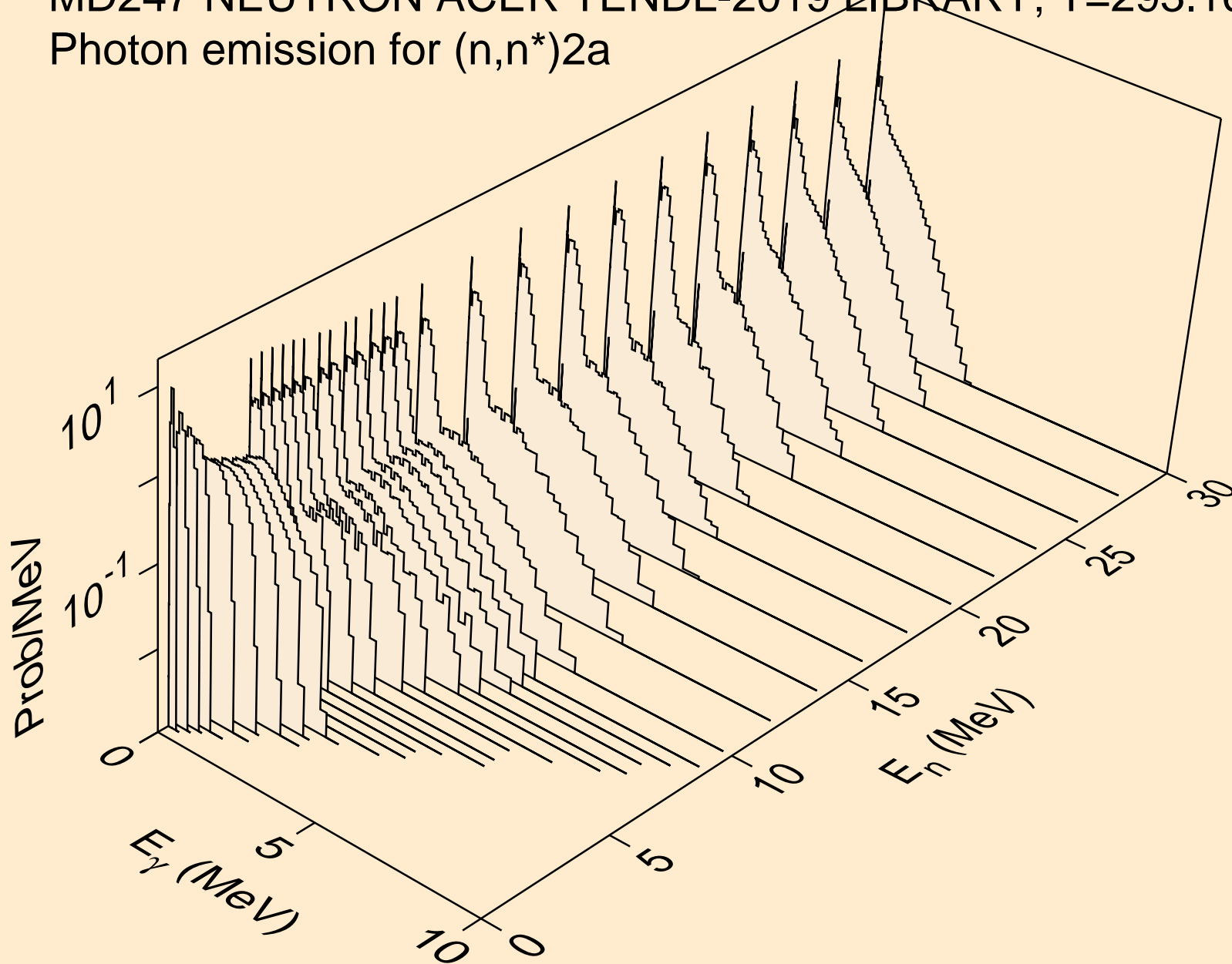
MD247 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,3n)a



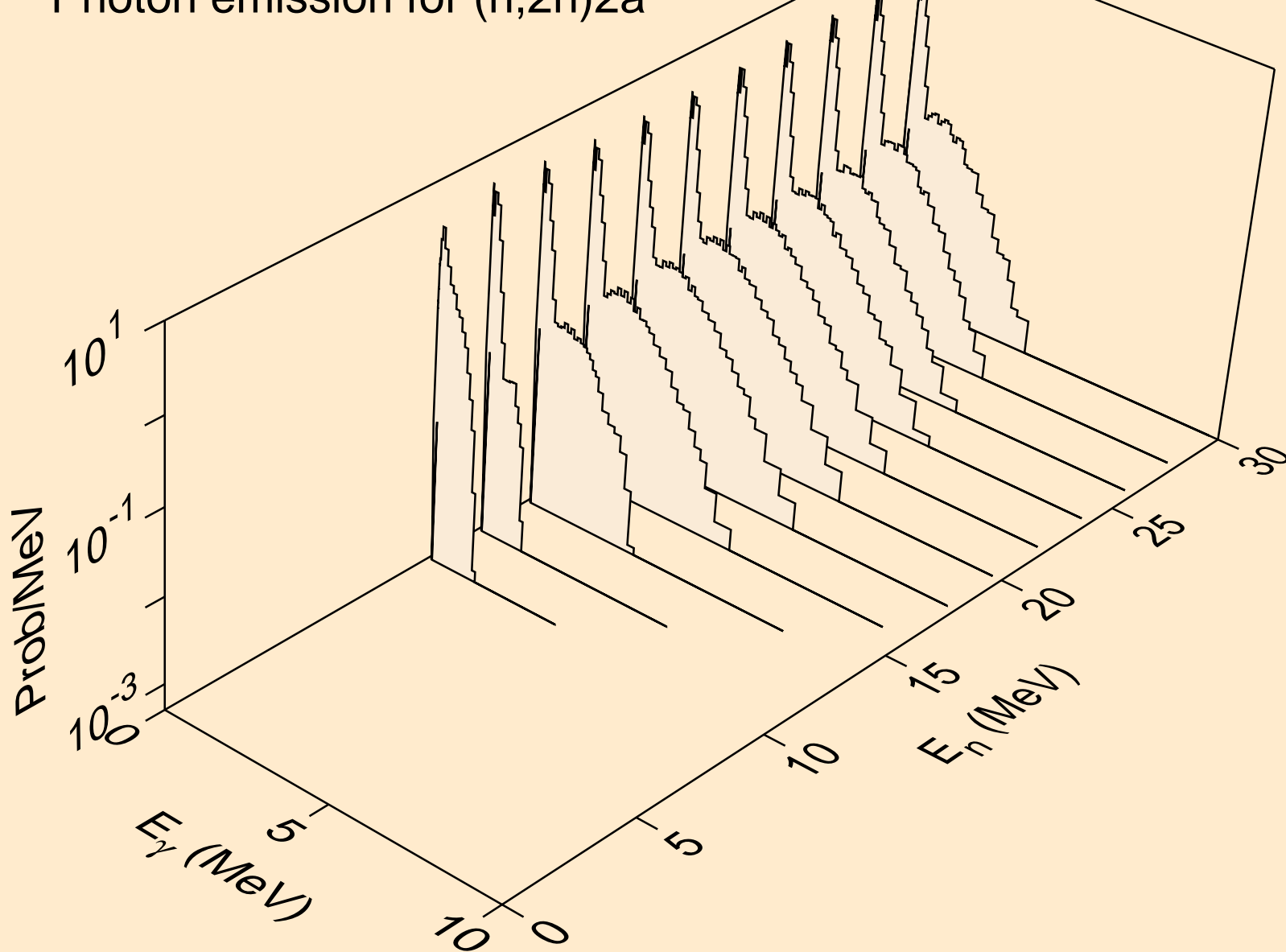
MD247 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,n\*)p



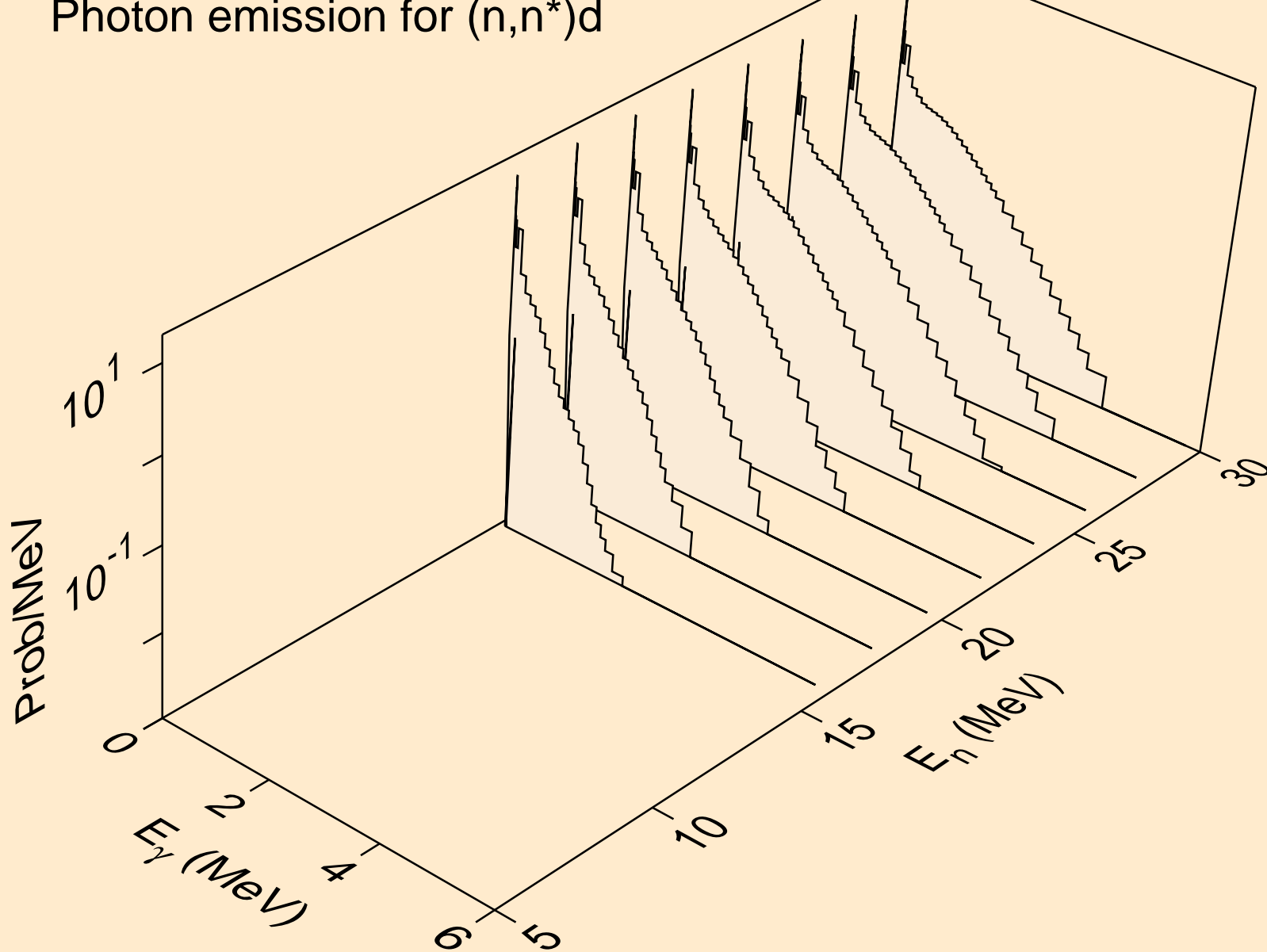
MD247 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,n\*)2a



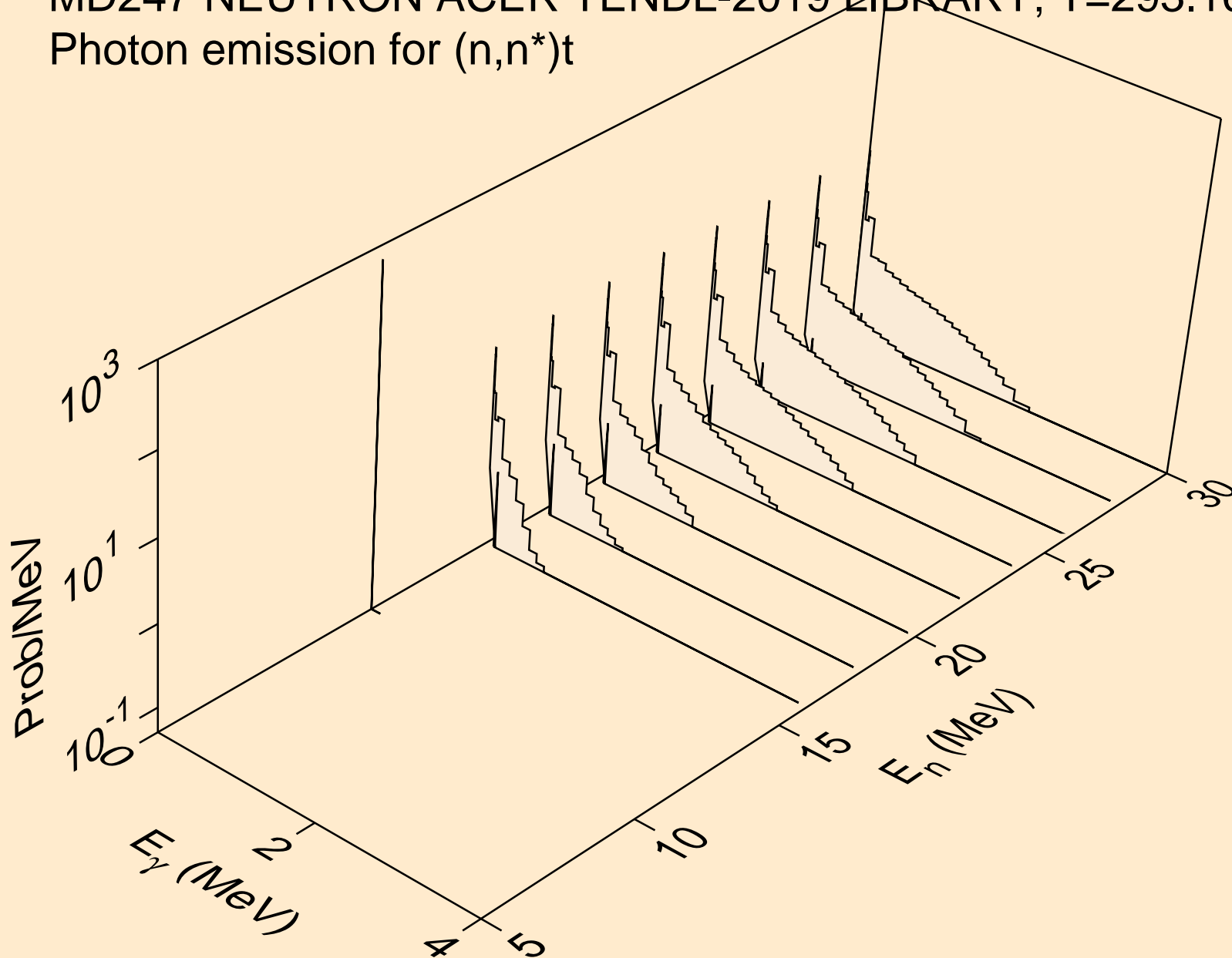
MD247 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,2n)2a



MD247 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,n\*)d

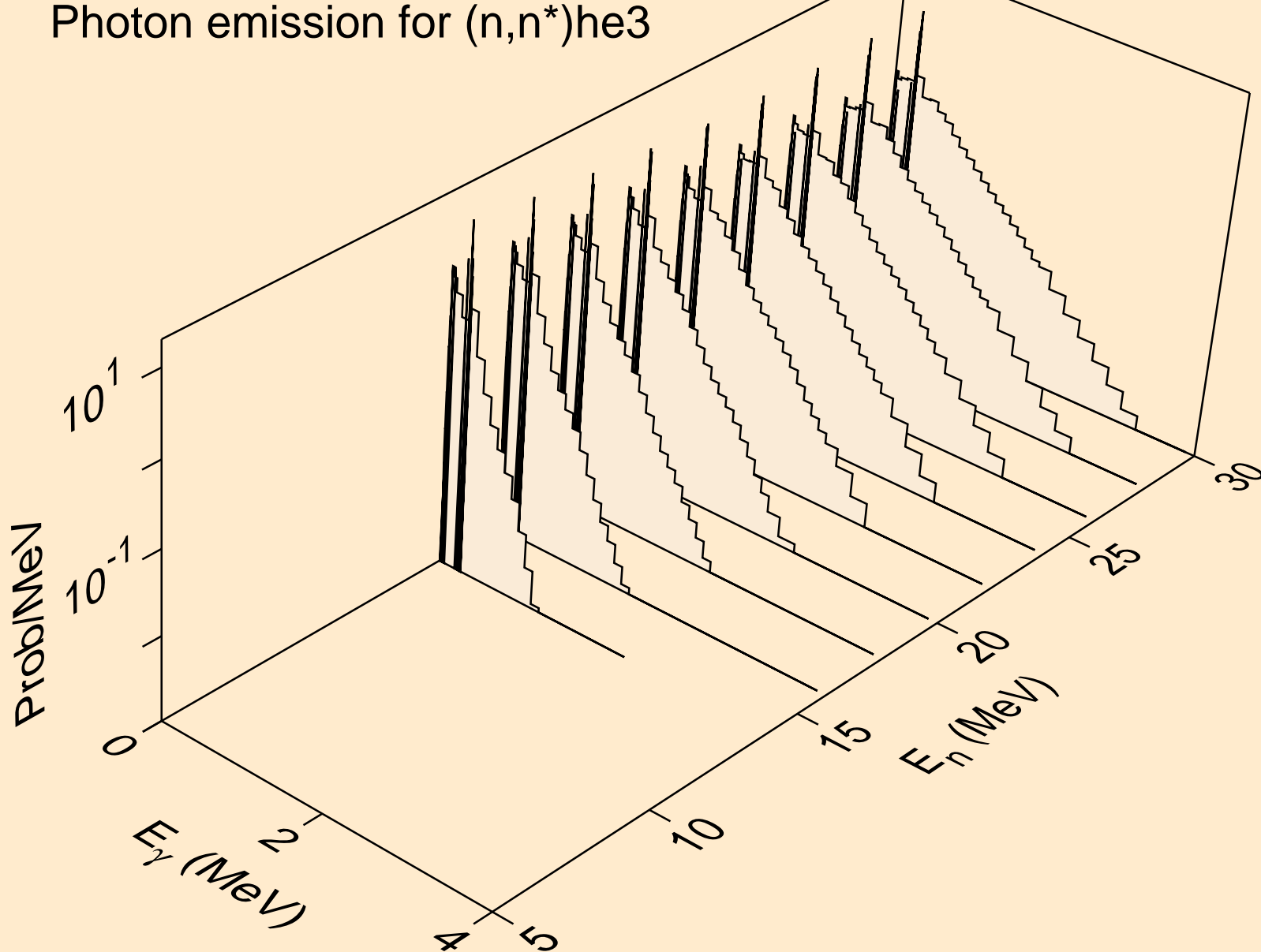


MD247 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,n\*)t

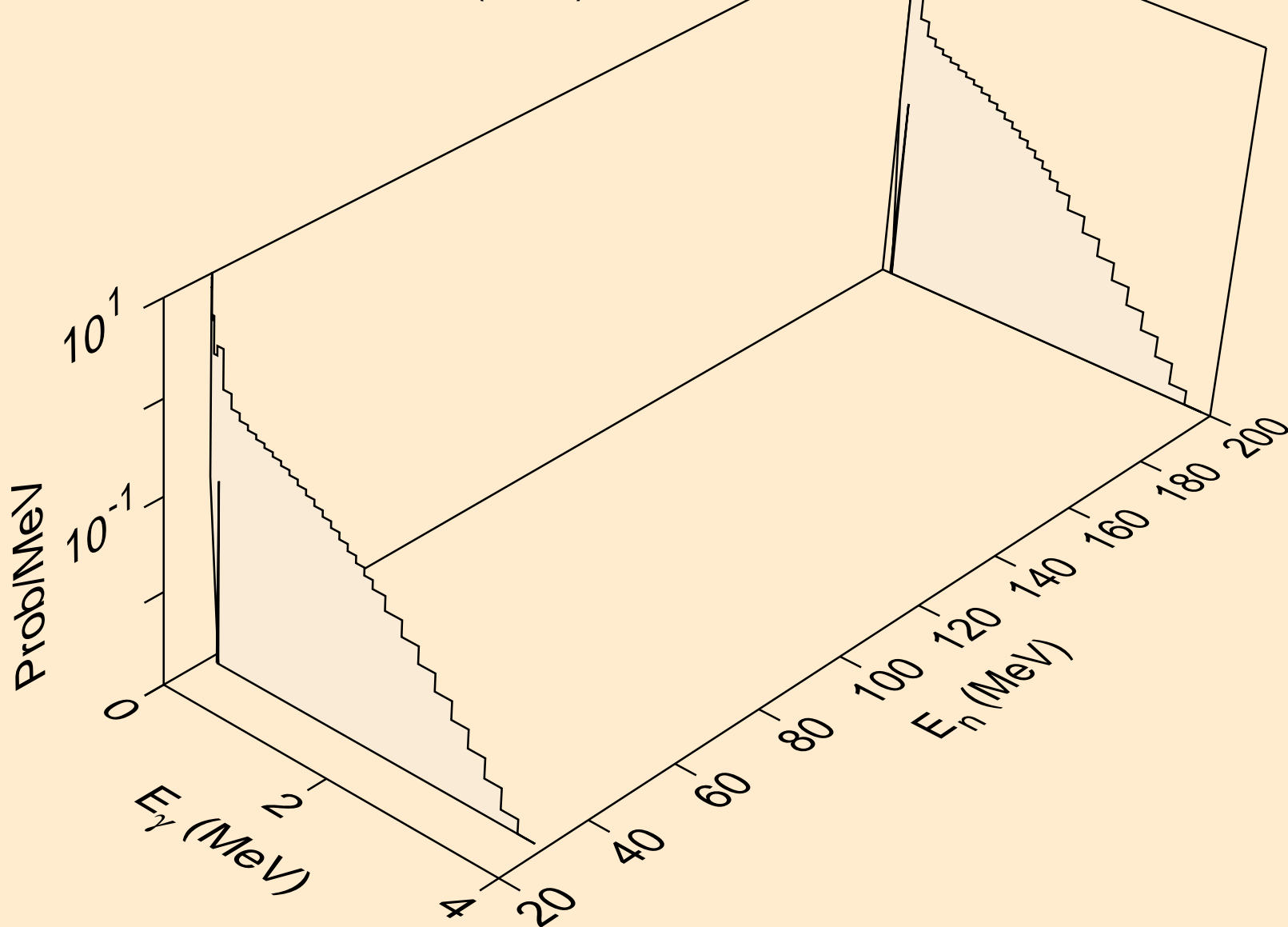




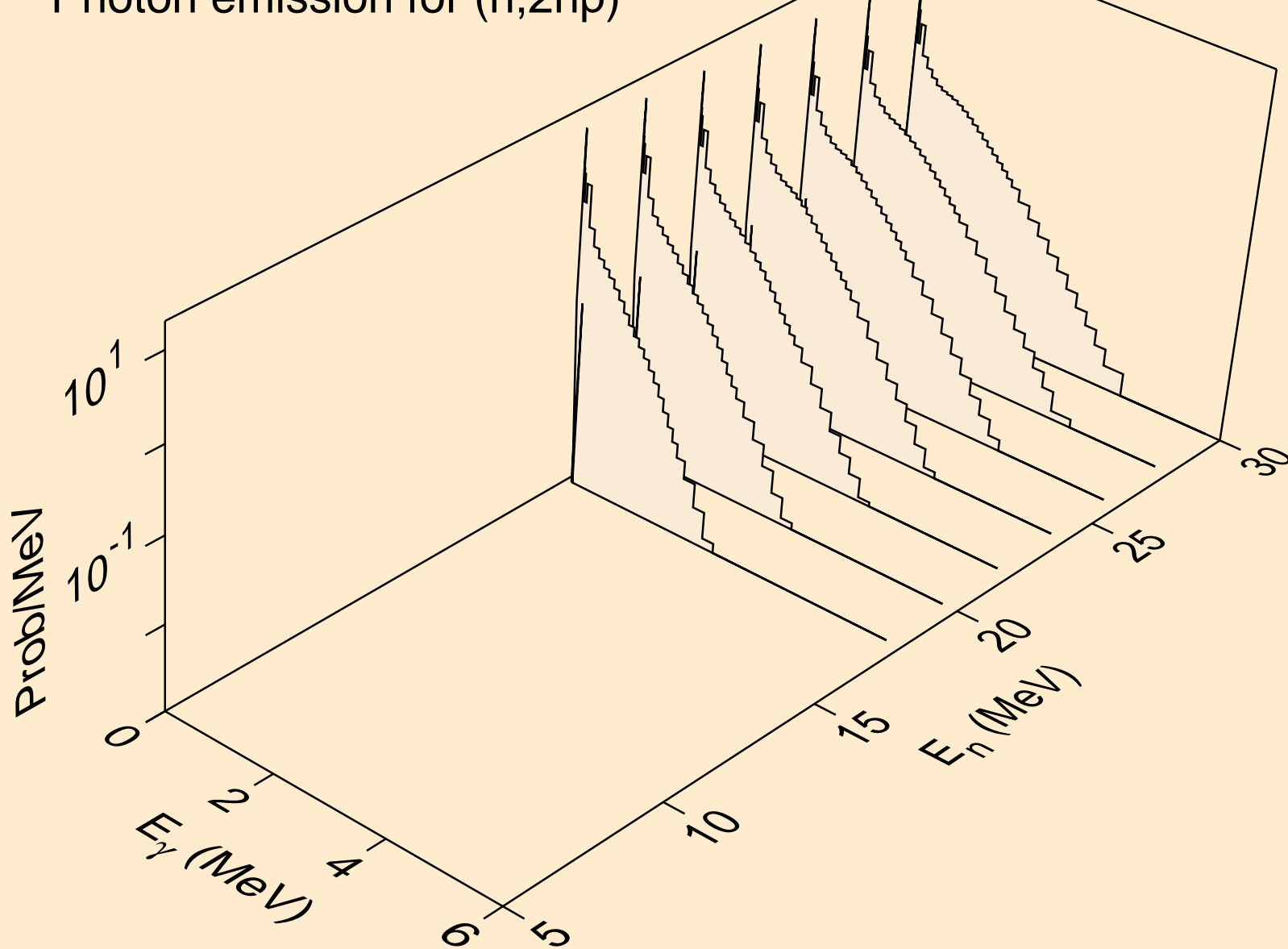
MD247 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,n\*)he3



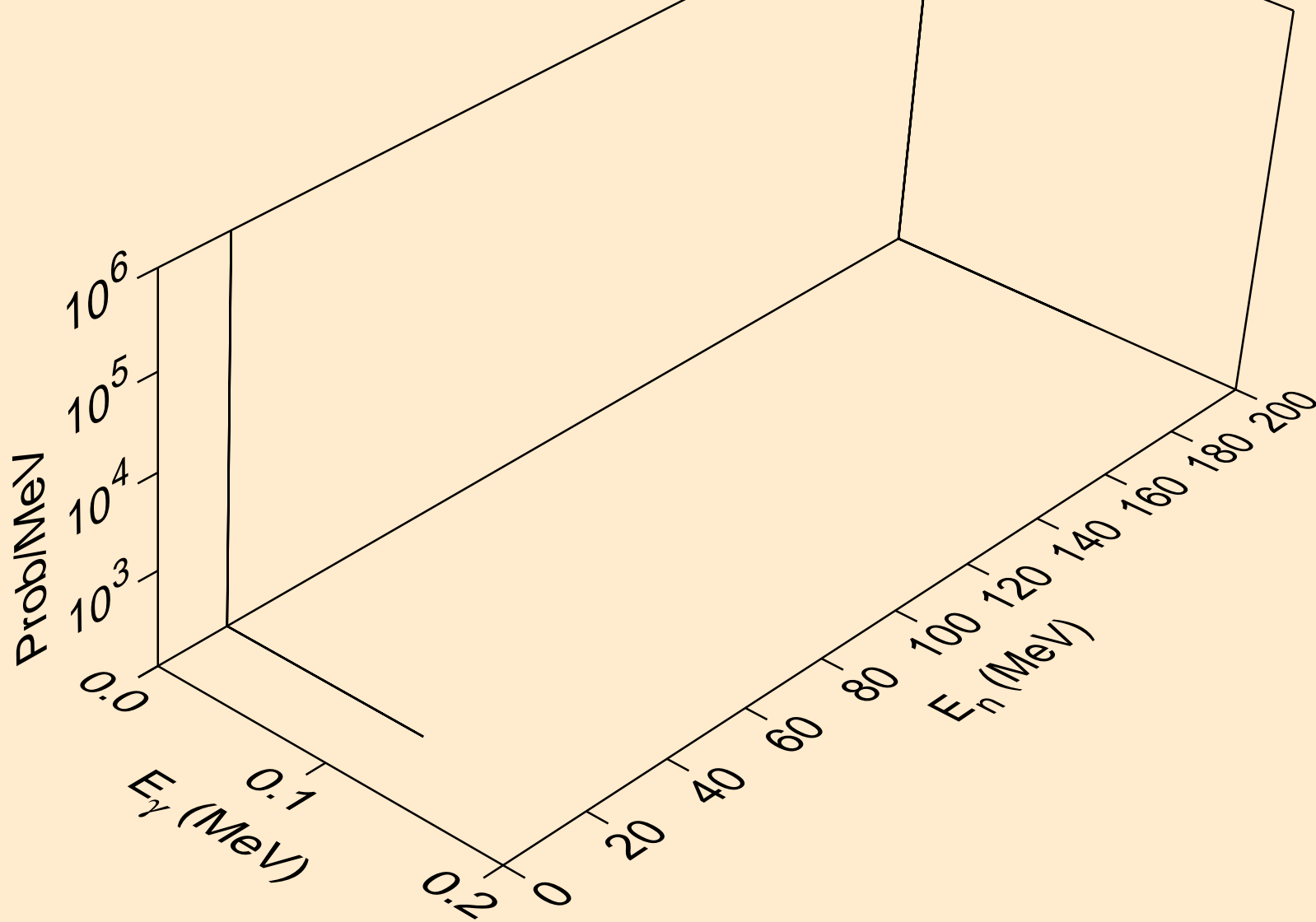
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Photon emission for (n,4n)



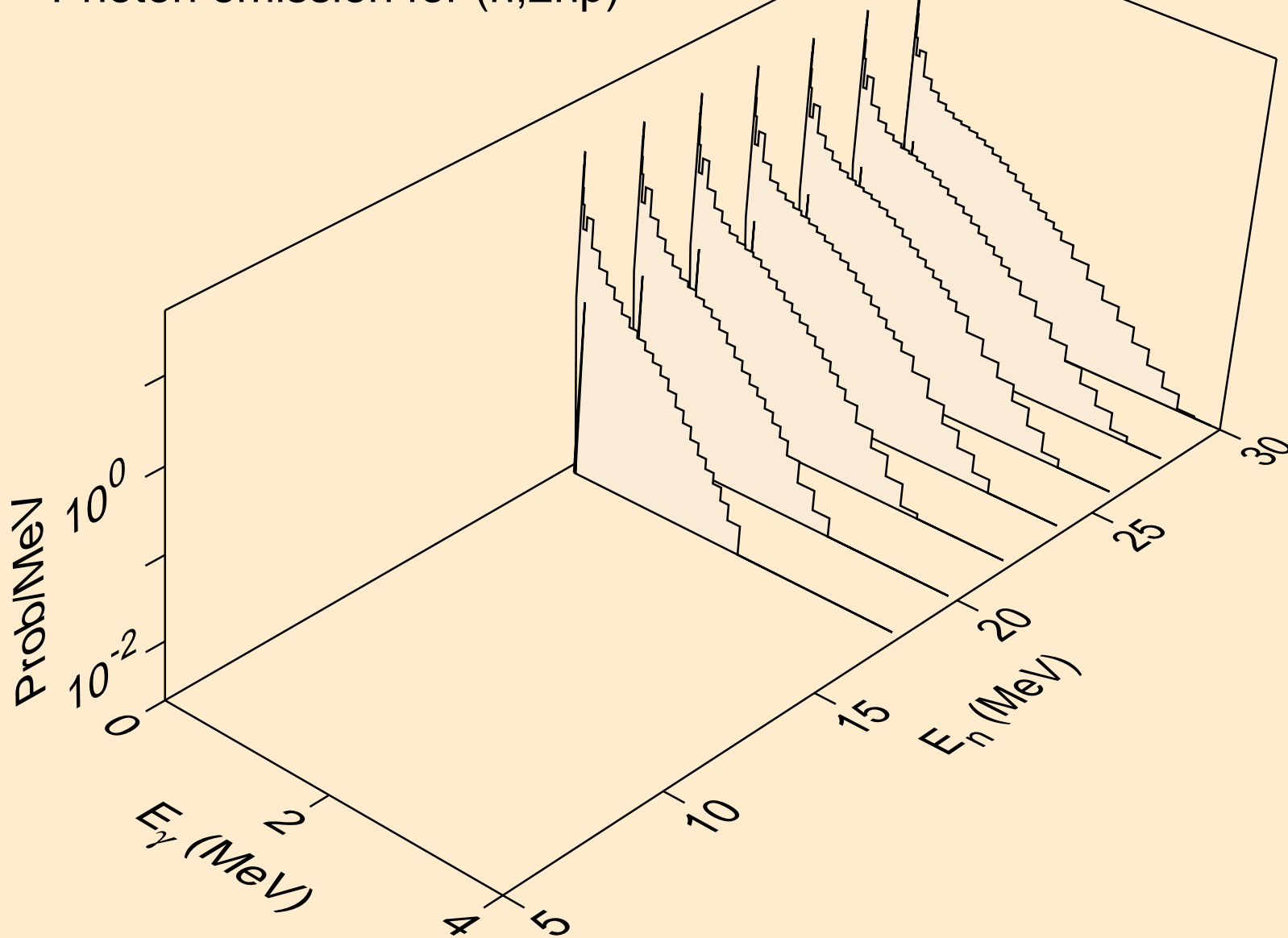
MD247 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,2np)



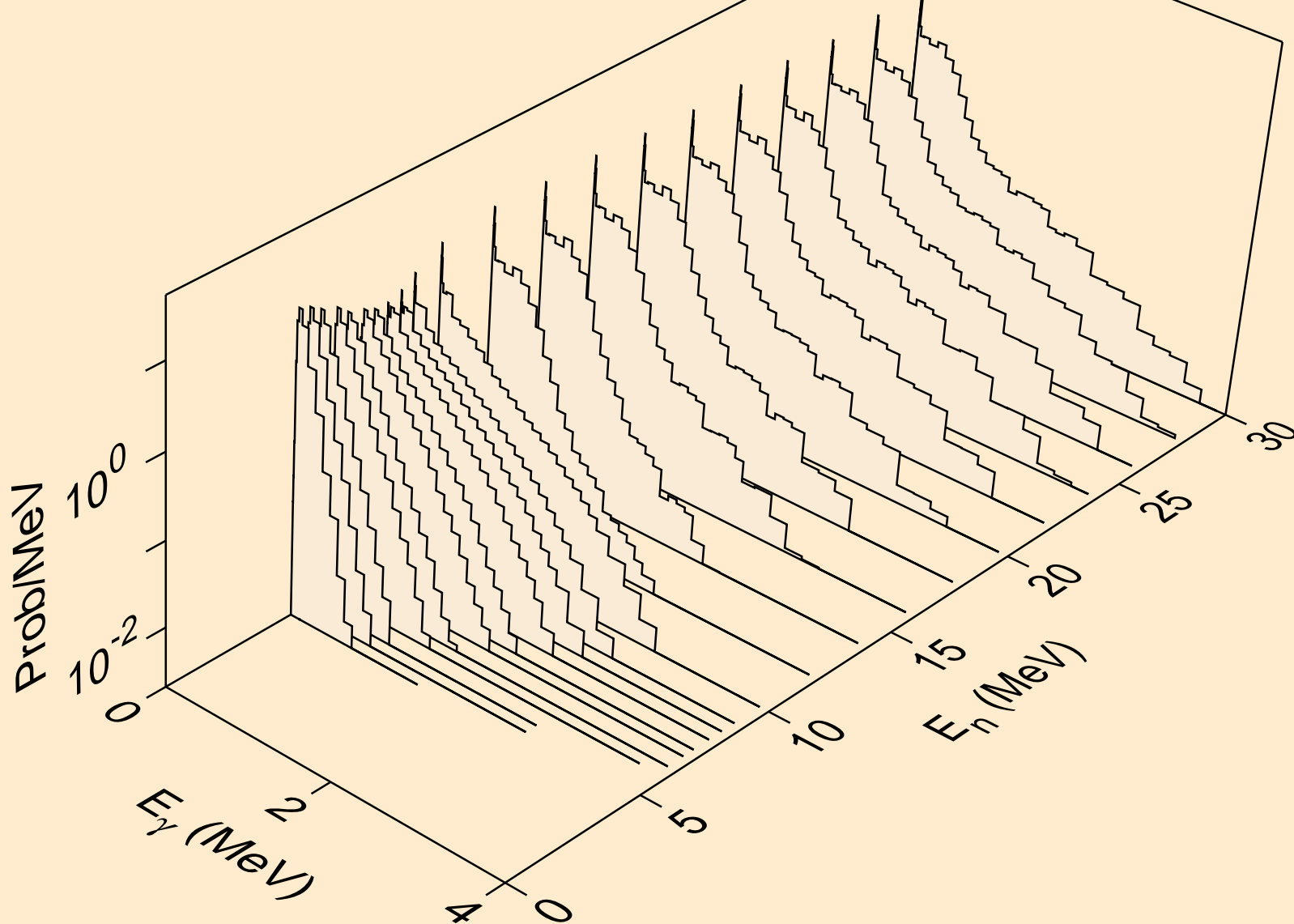
MD247 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,3np)



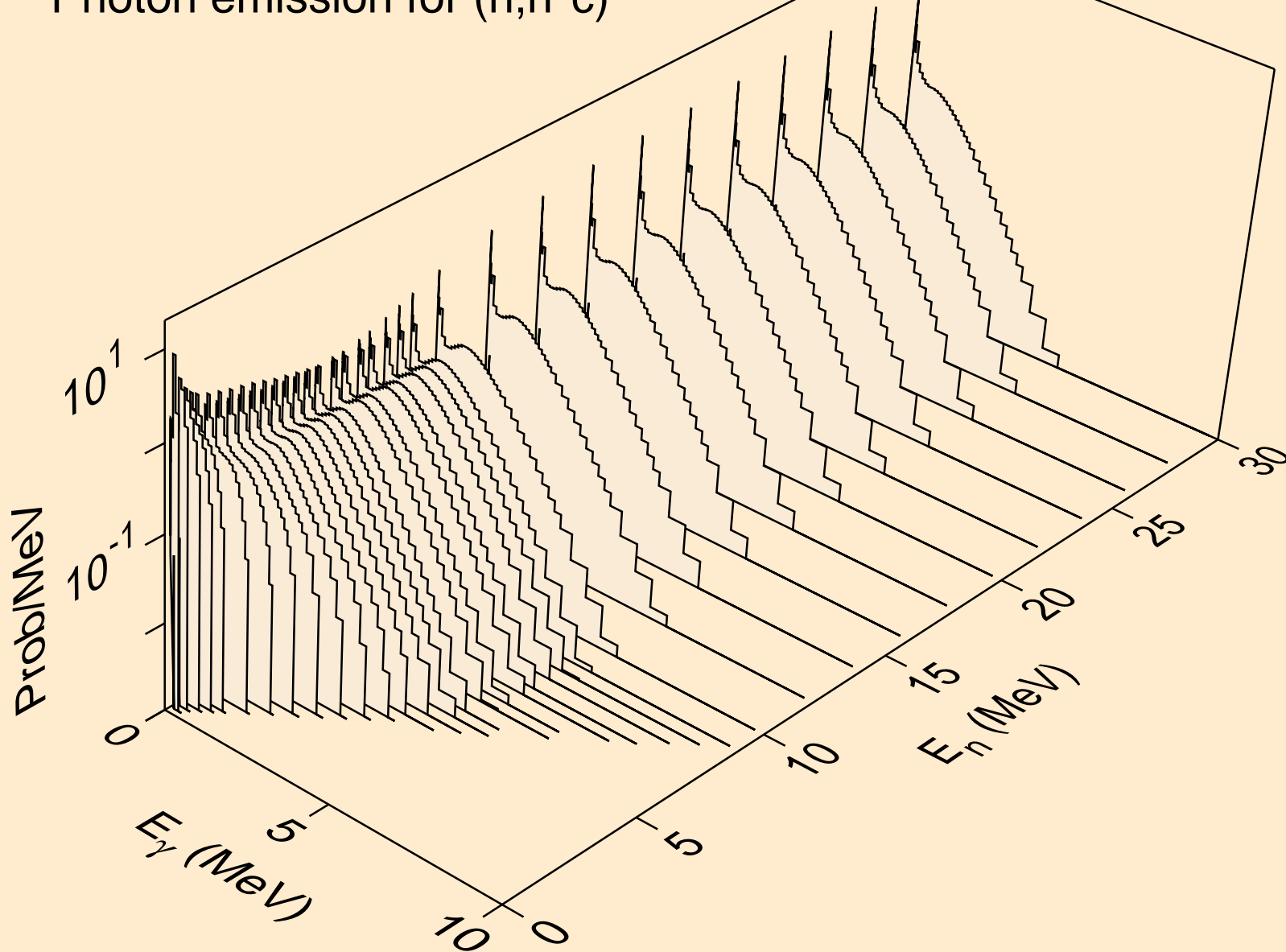
MD247 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,2np)



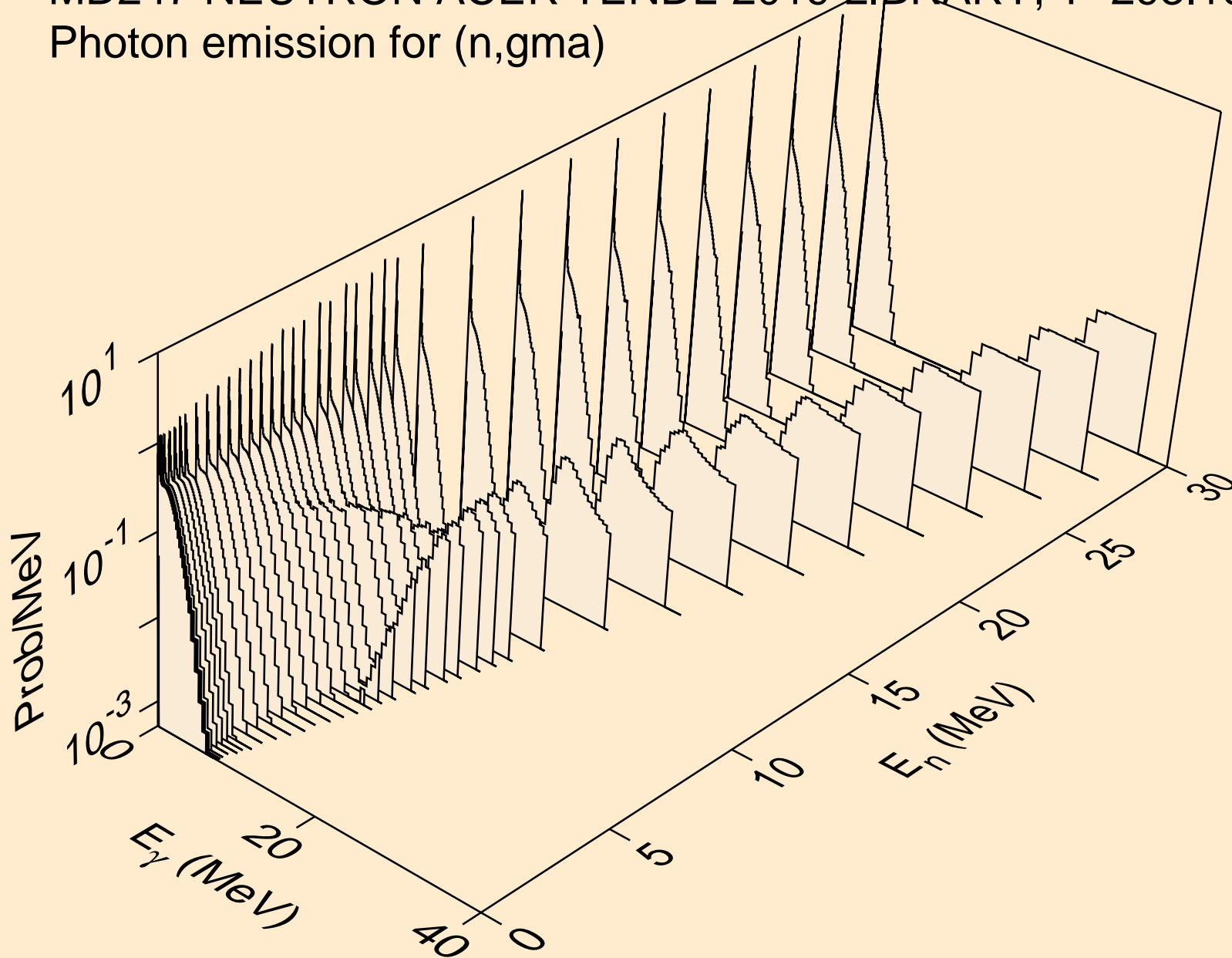
MD247 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,npa)



MD247 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,n\*c)

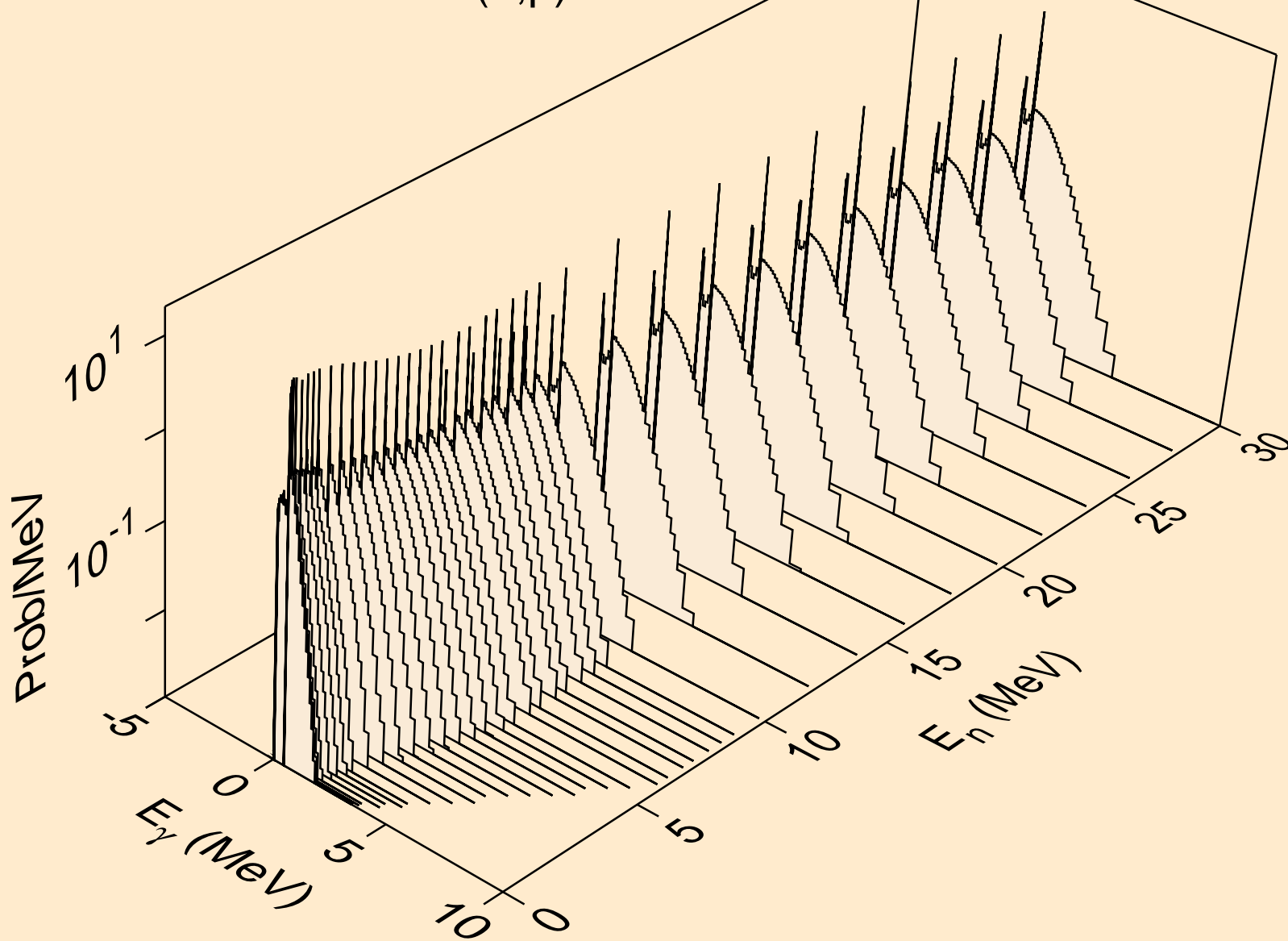


MD247 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,gma)

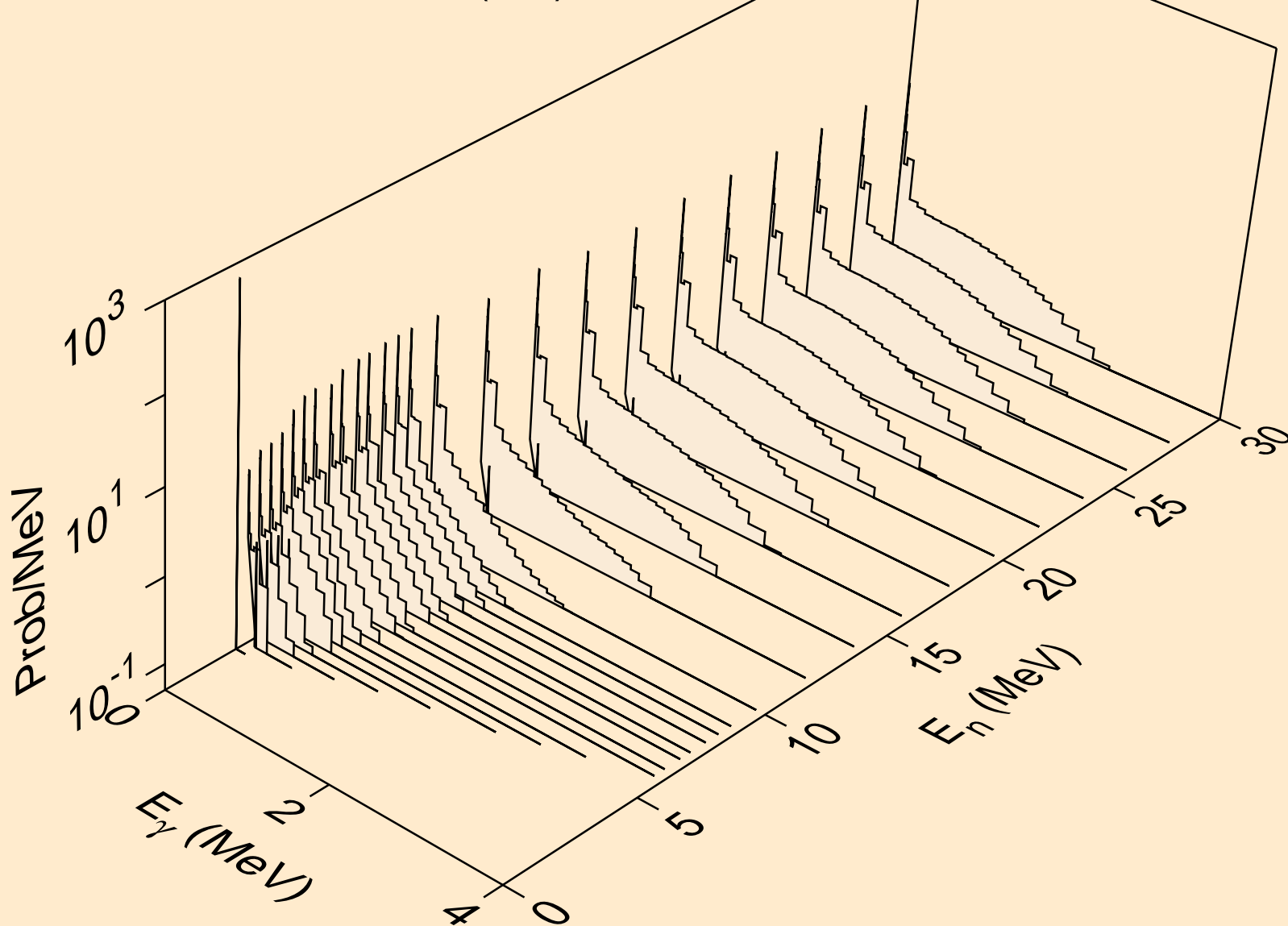




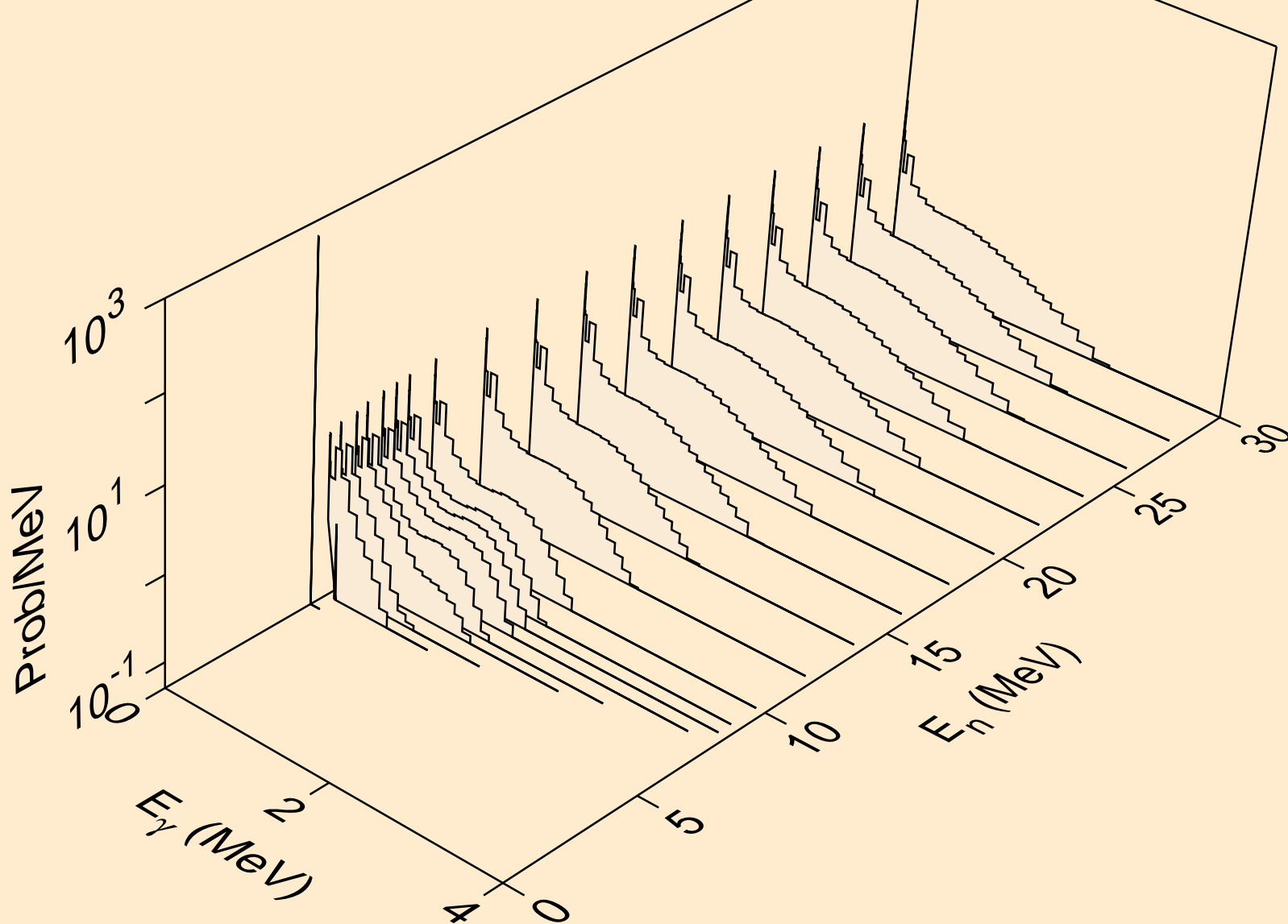
MD247 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,p)



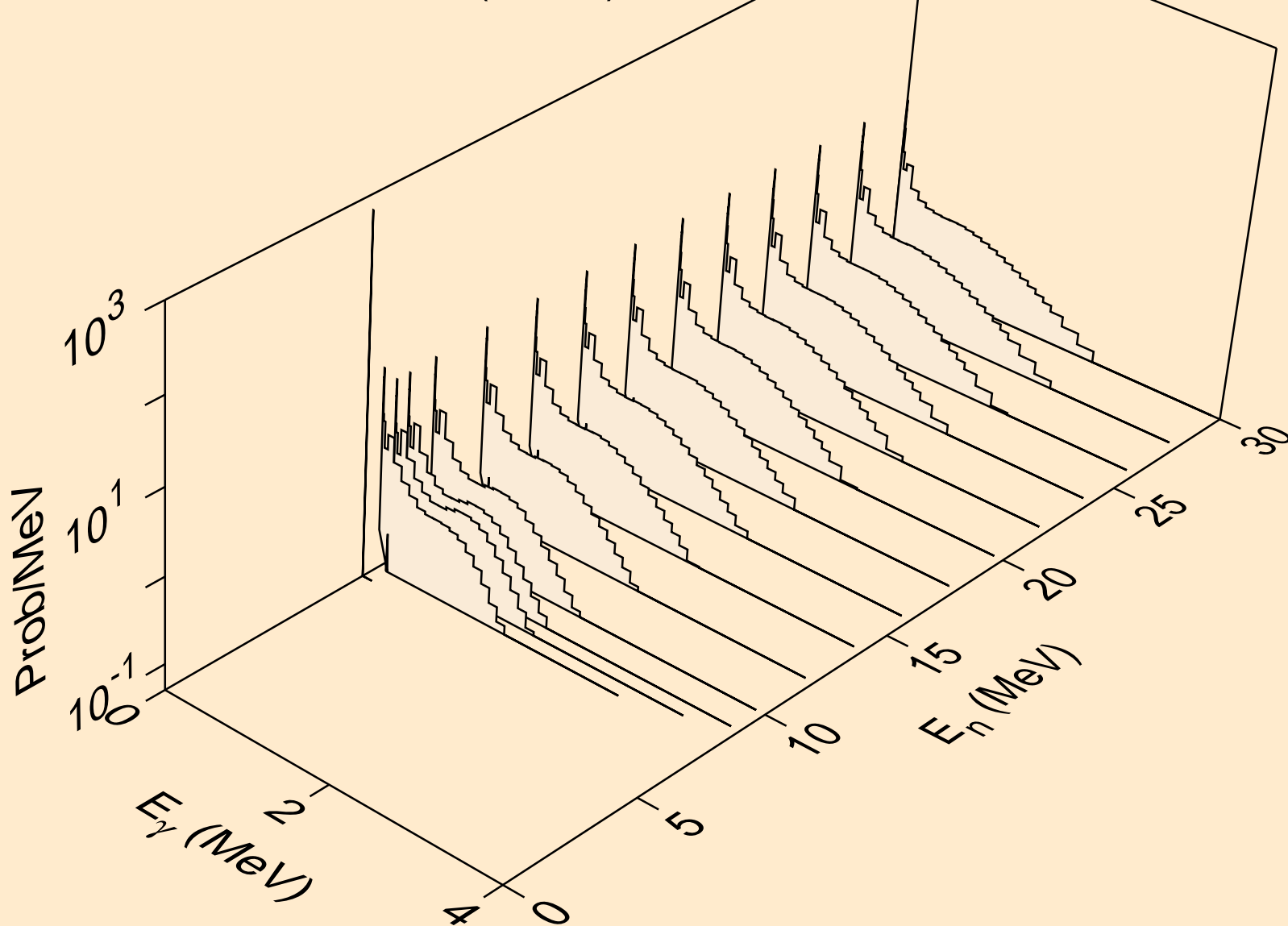
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Photon emission for (n,d)



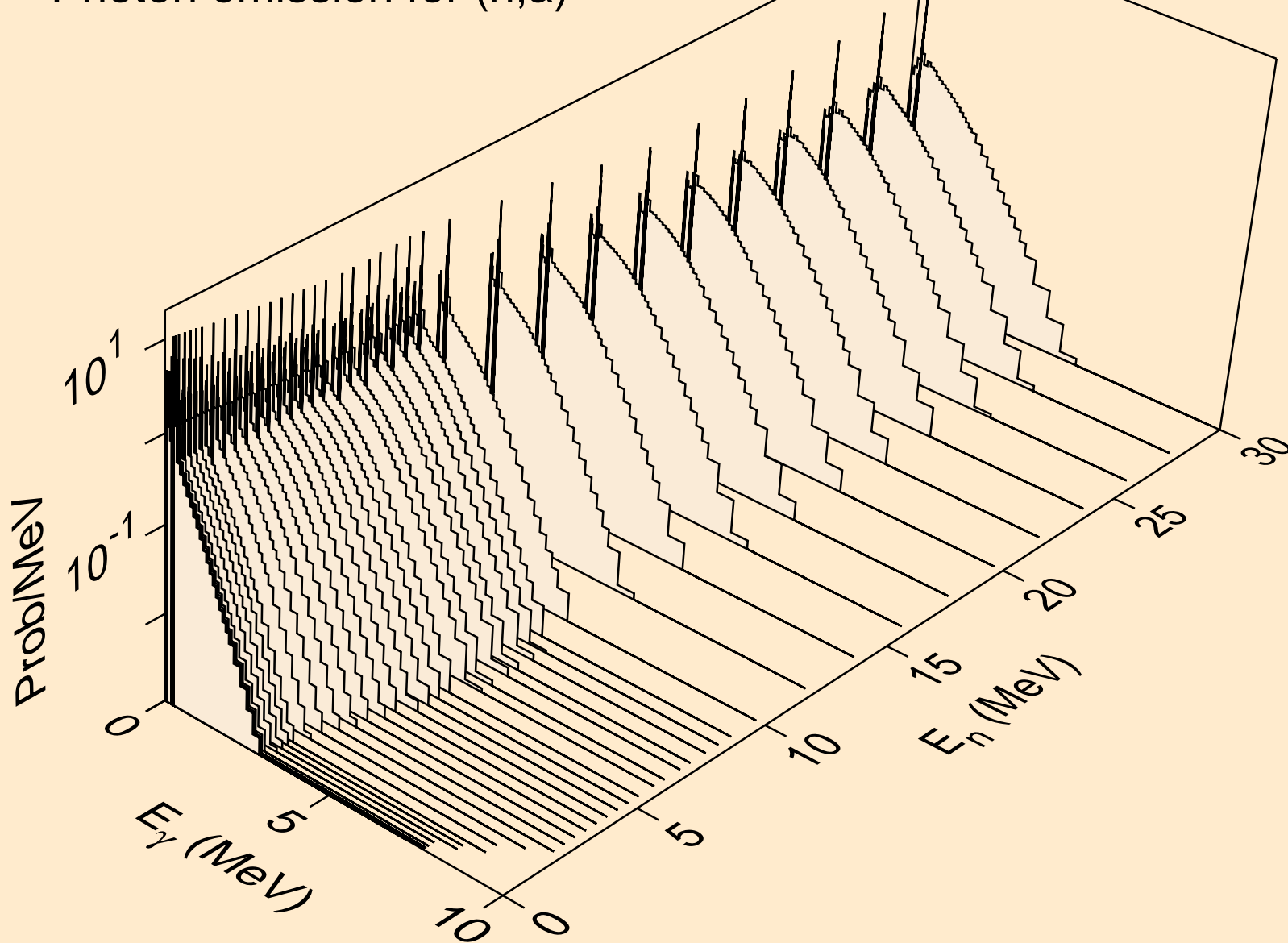
MD247 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,t)



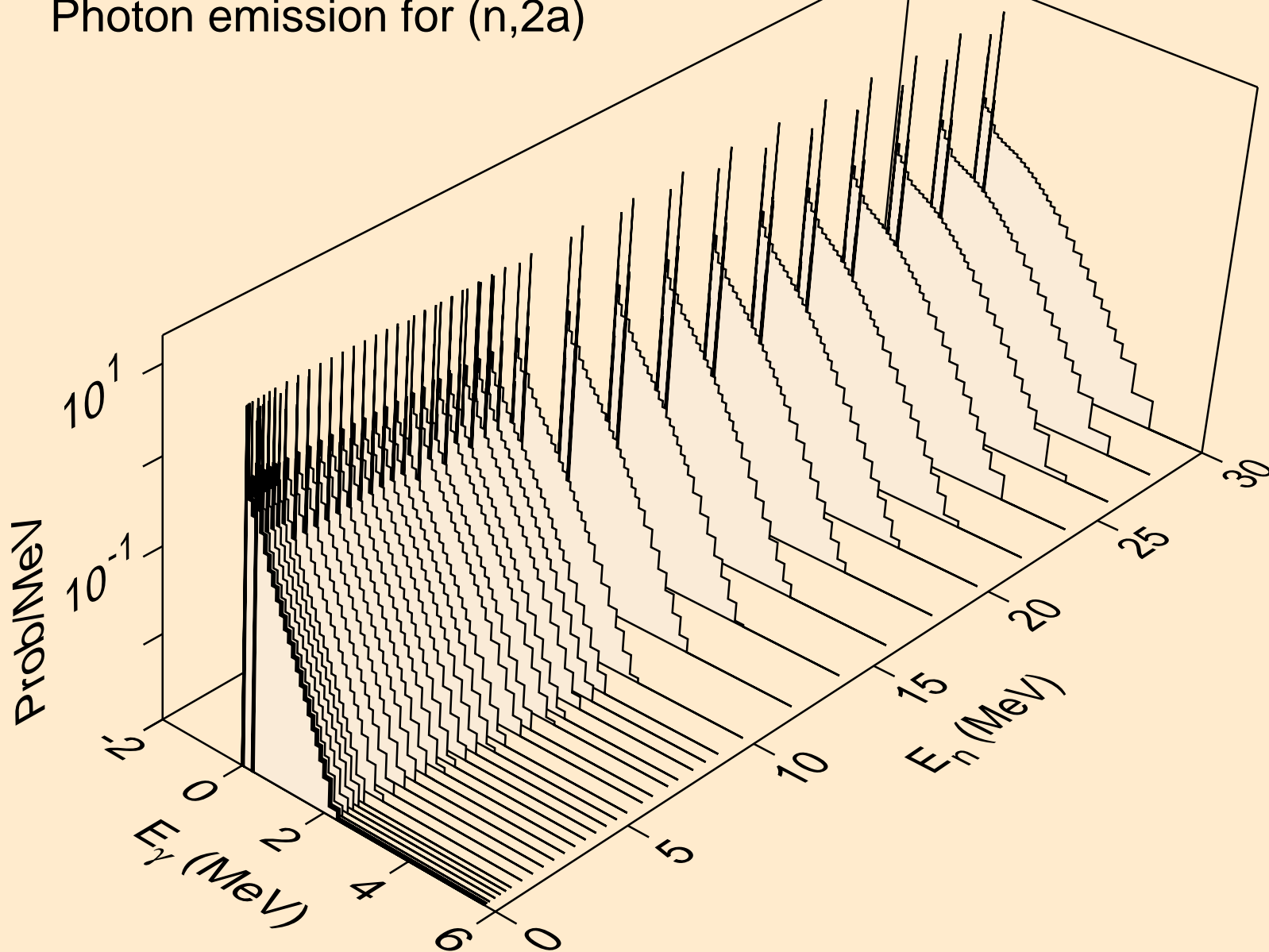
MD247 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,he3)



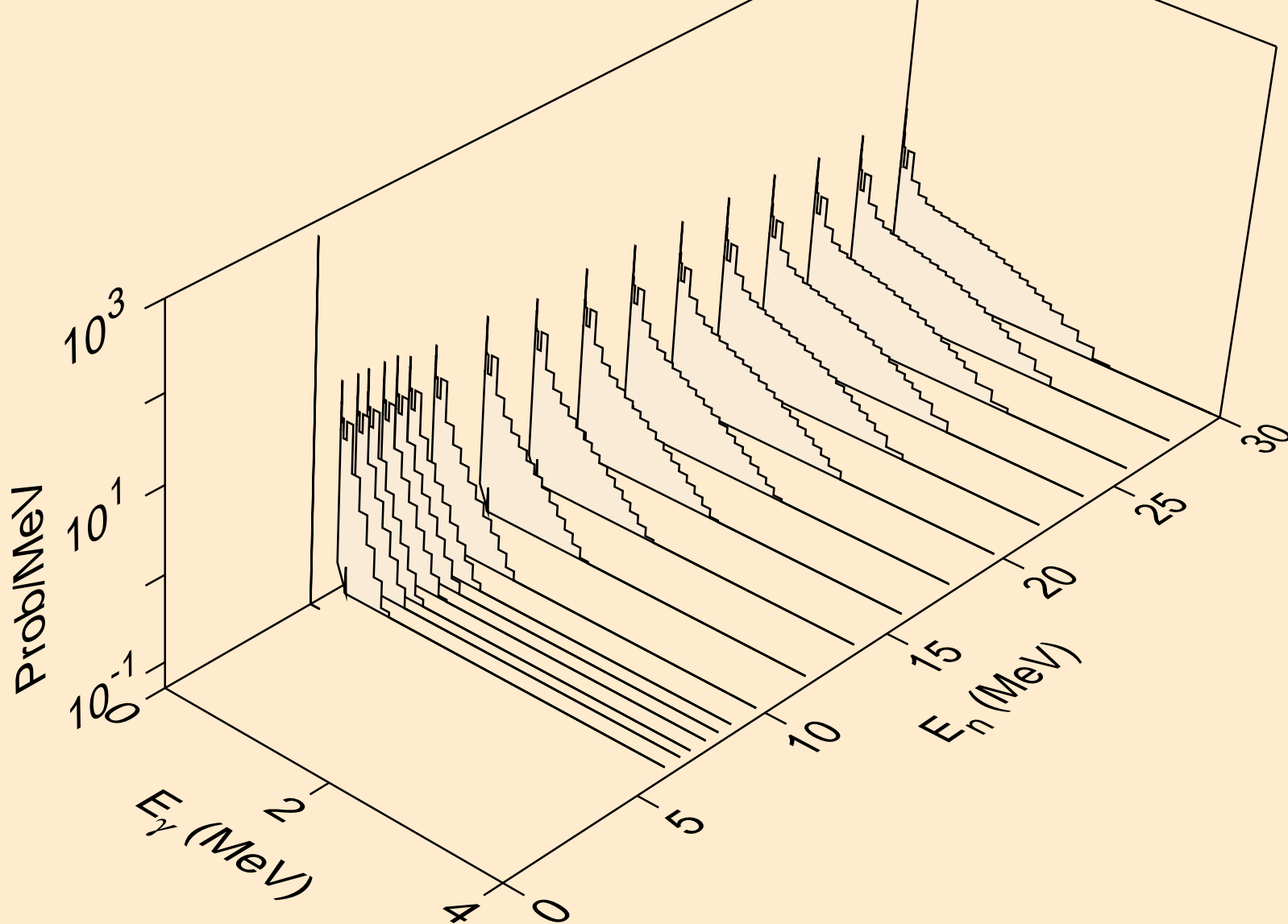
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Photon emission for (n,a)



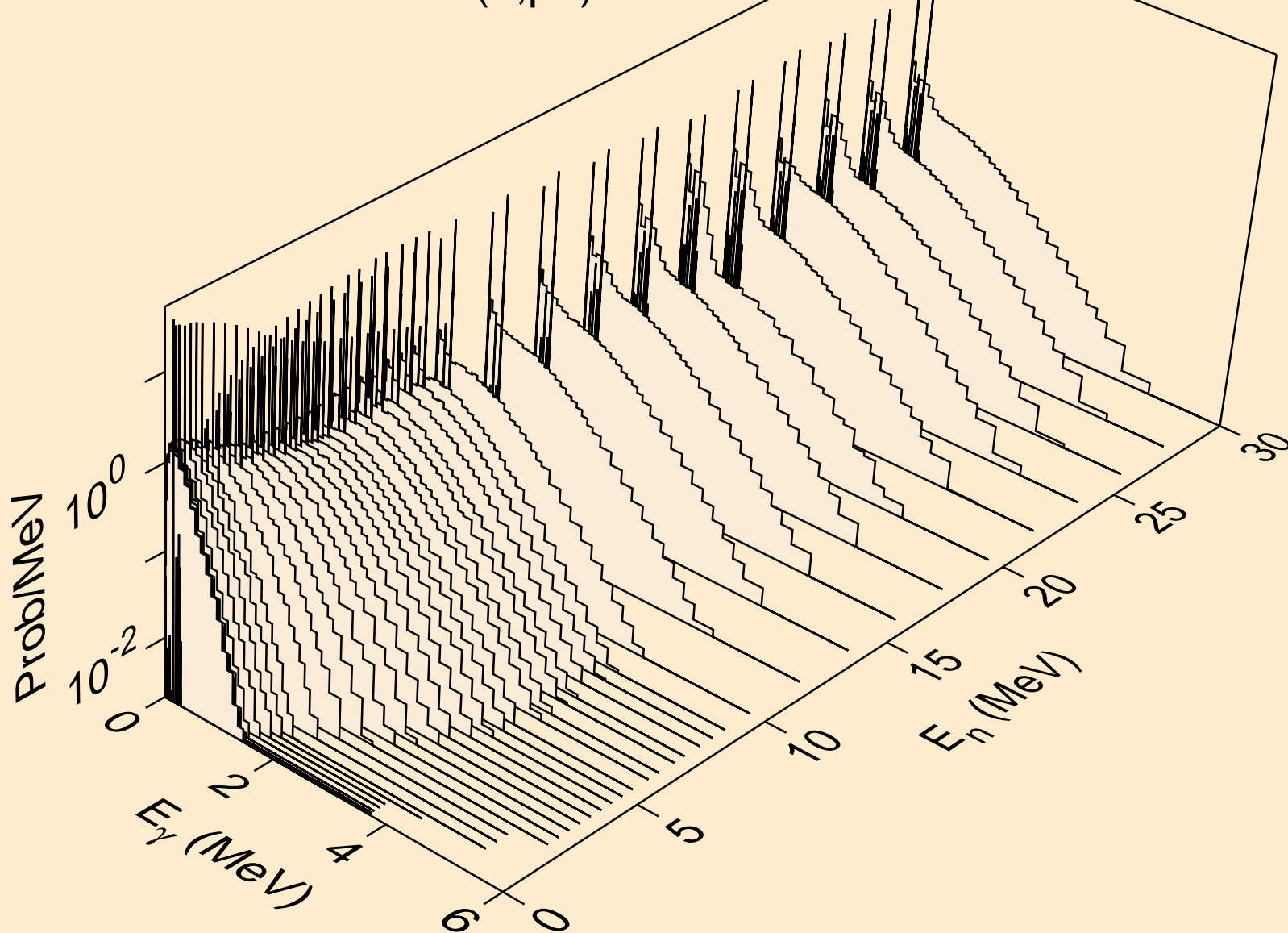
MD247 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,2a)



MD247 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,2p)

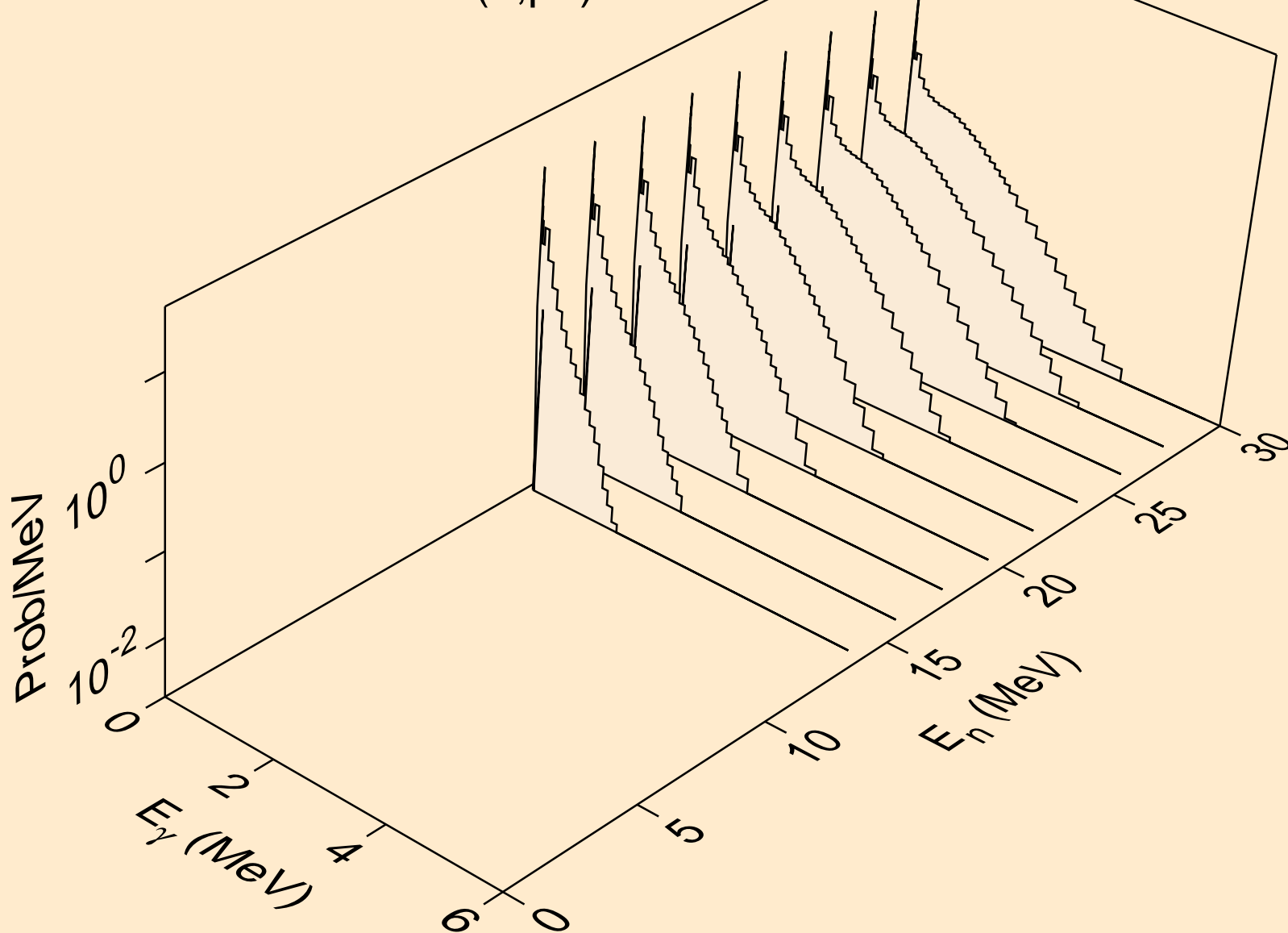


MD247 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,p $\alpha$ )

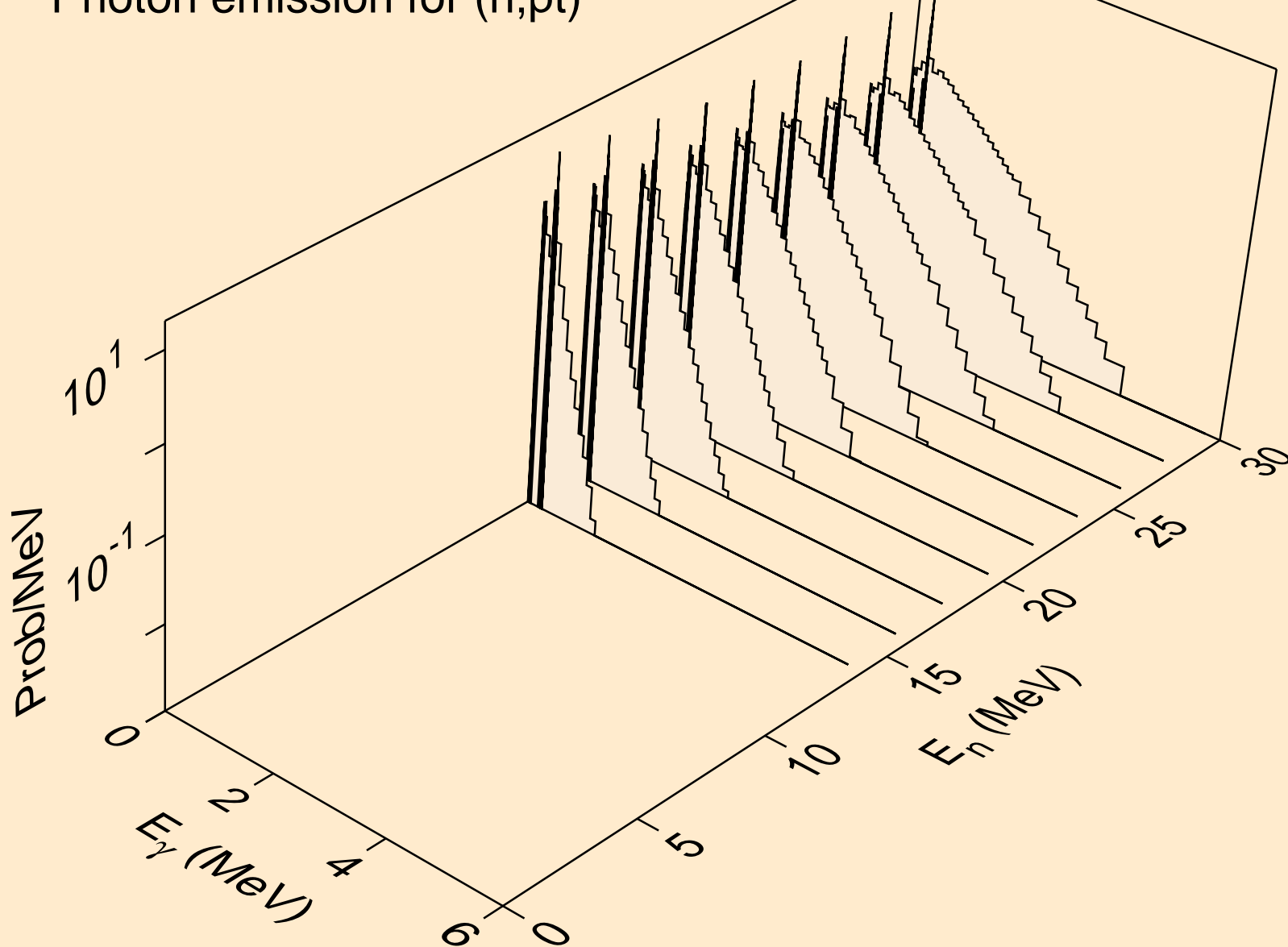




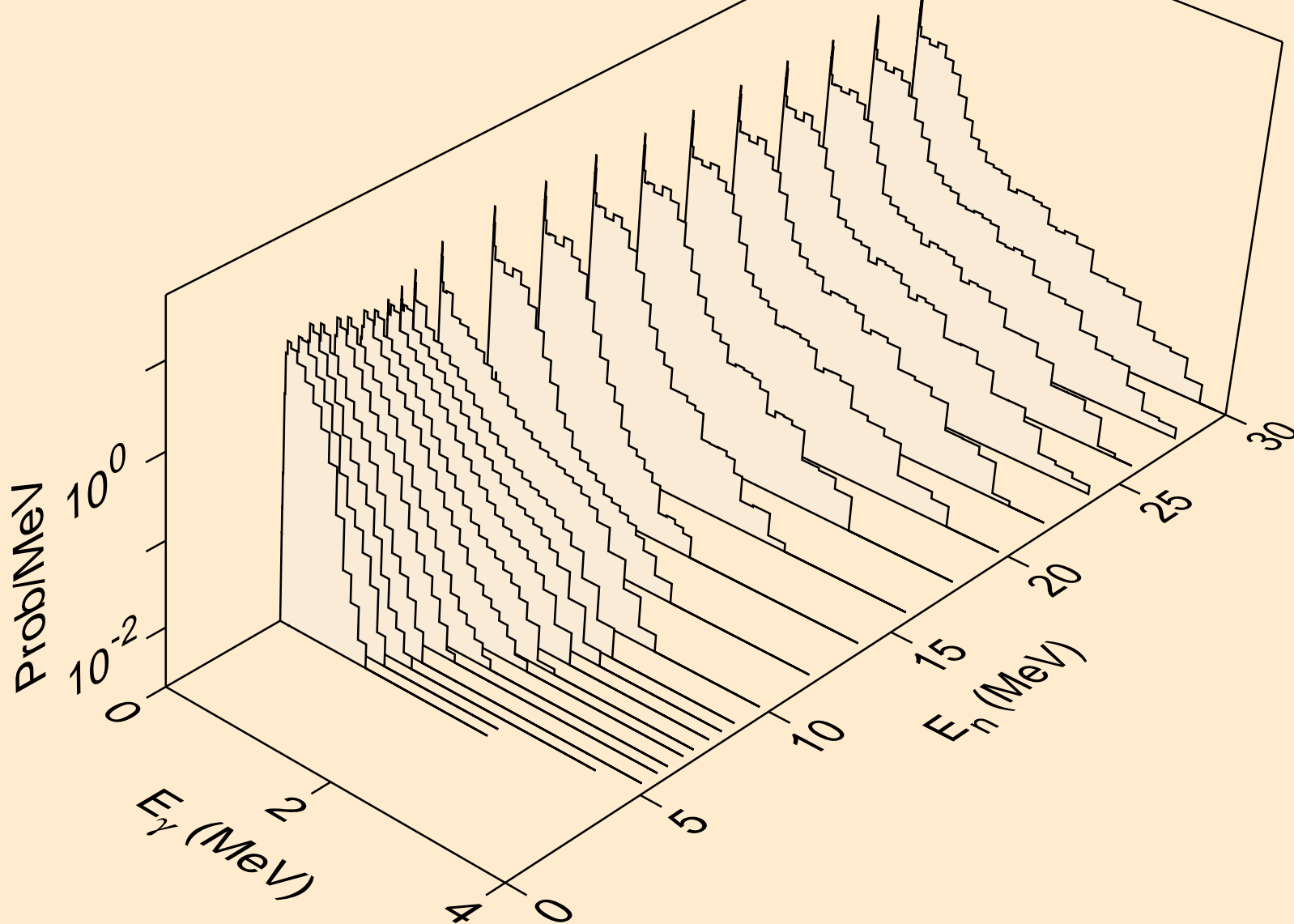
MD247 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,pd)



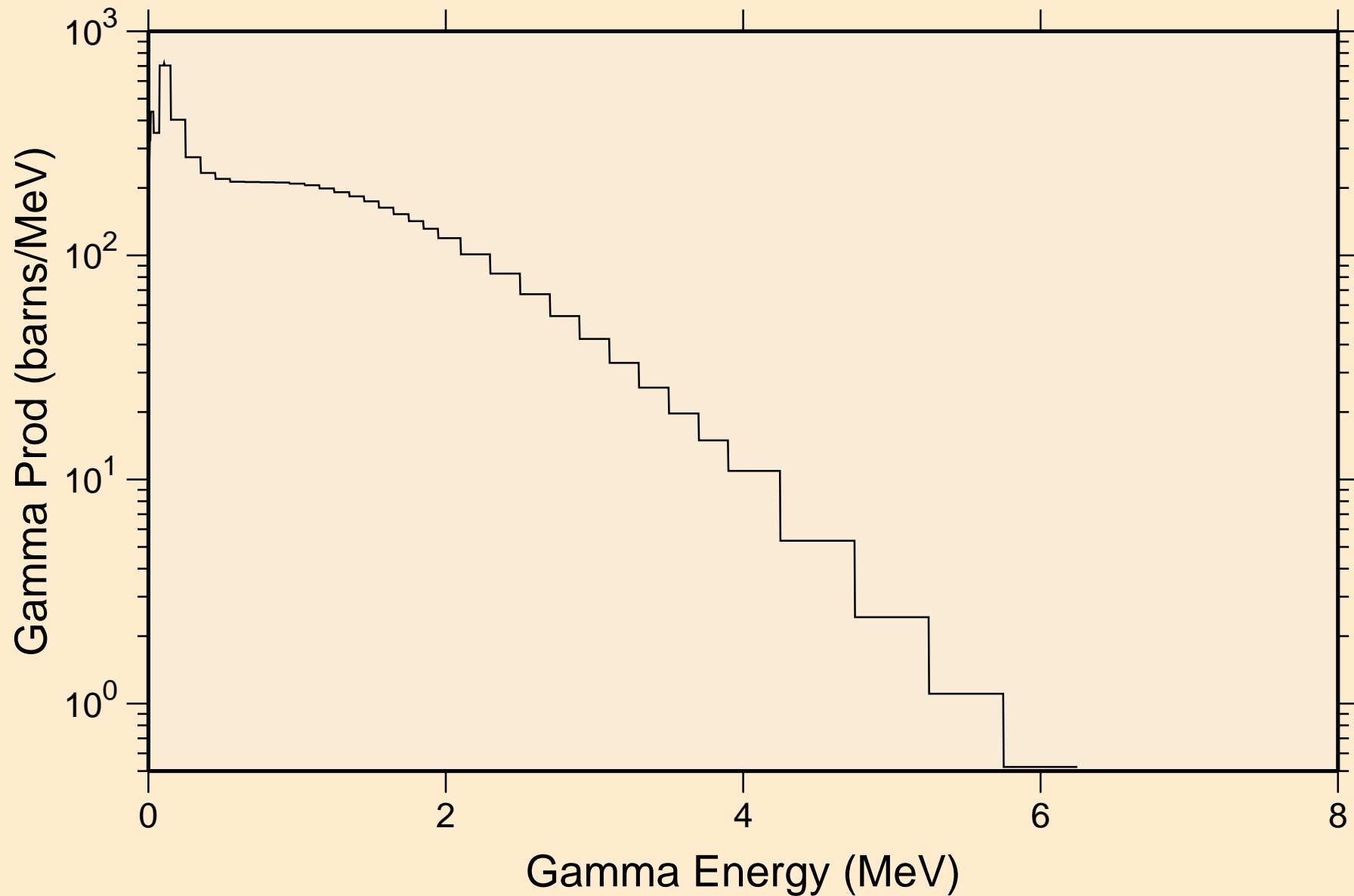
MD247 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,pt)



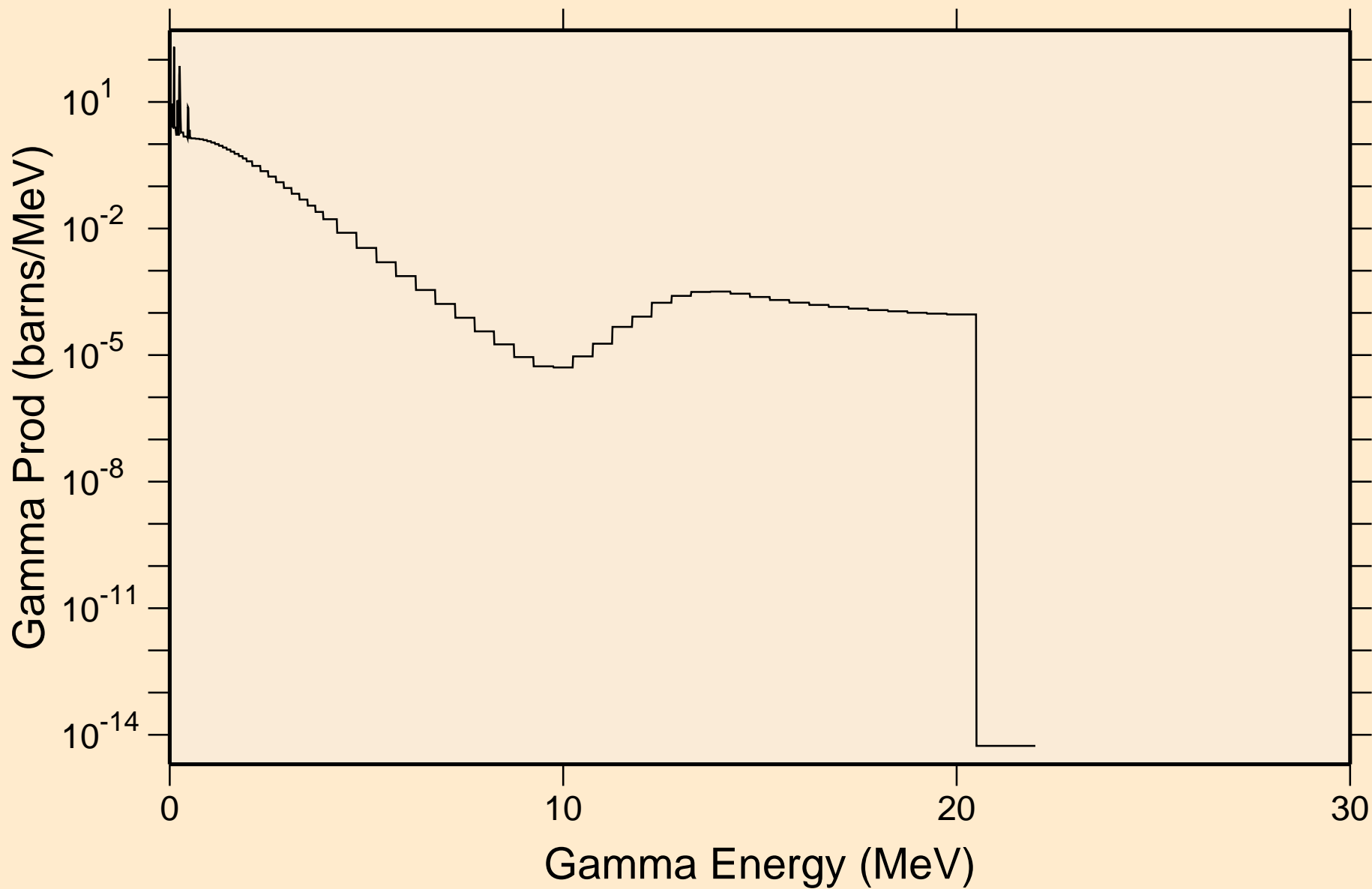
MD247 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,da)



MD247 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
thermal capture photon spectrum

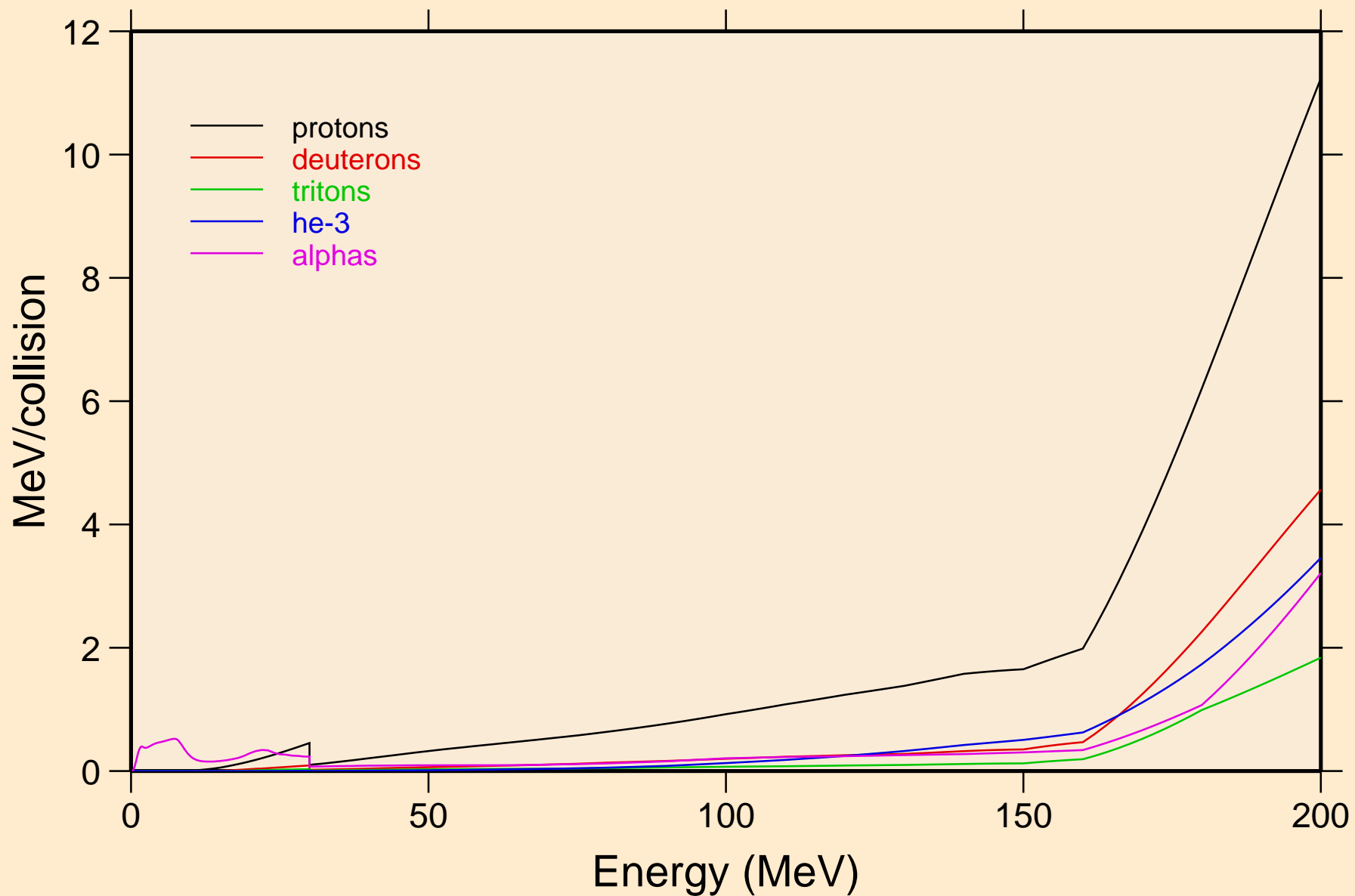


MD247 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
14 MeV photon spectrum

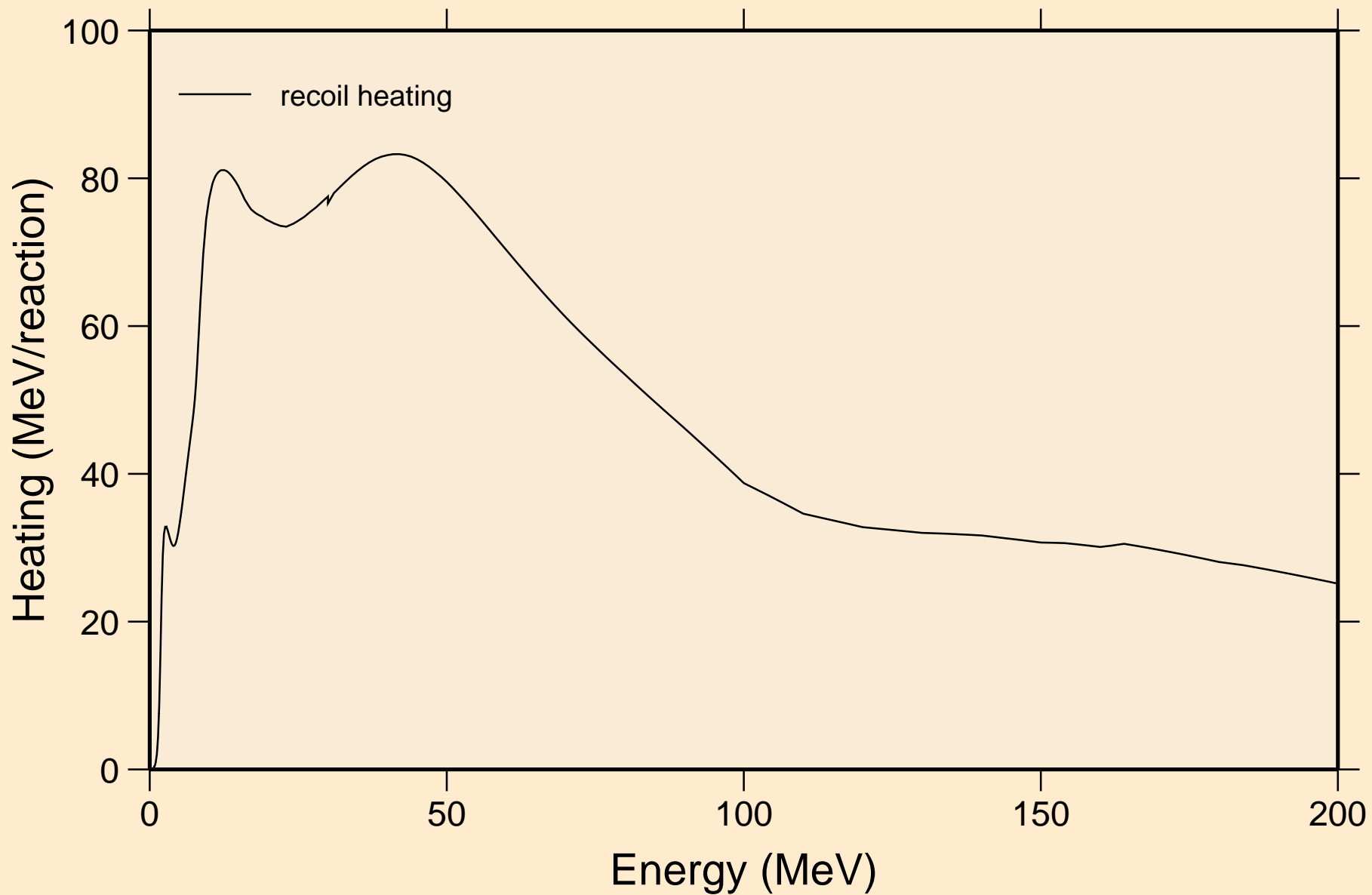


# MD247 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K

## Particle heating contributions

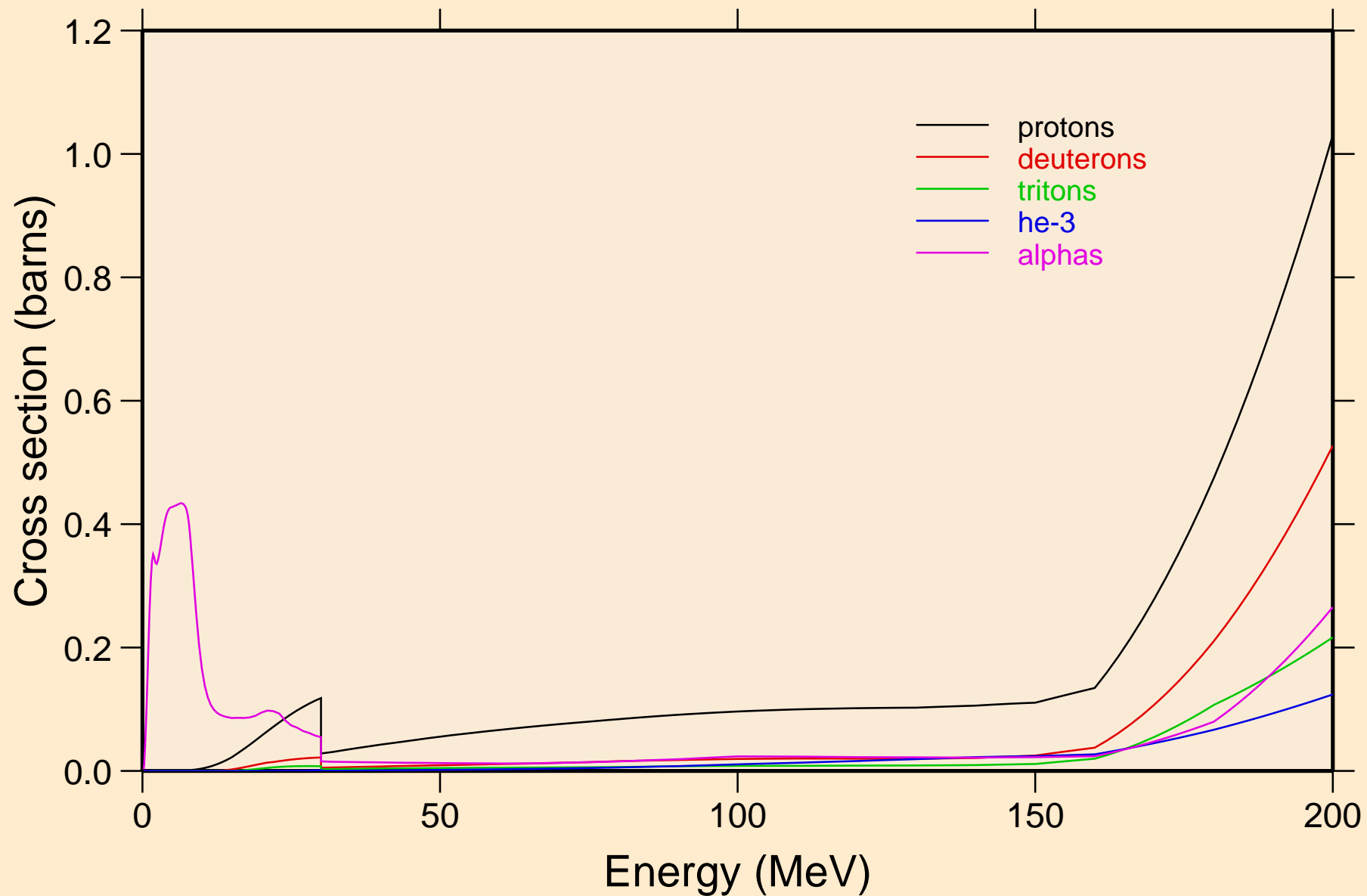


MD247 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Recoil Heating



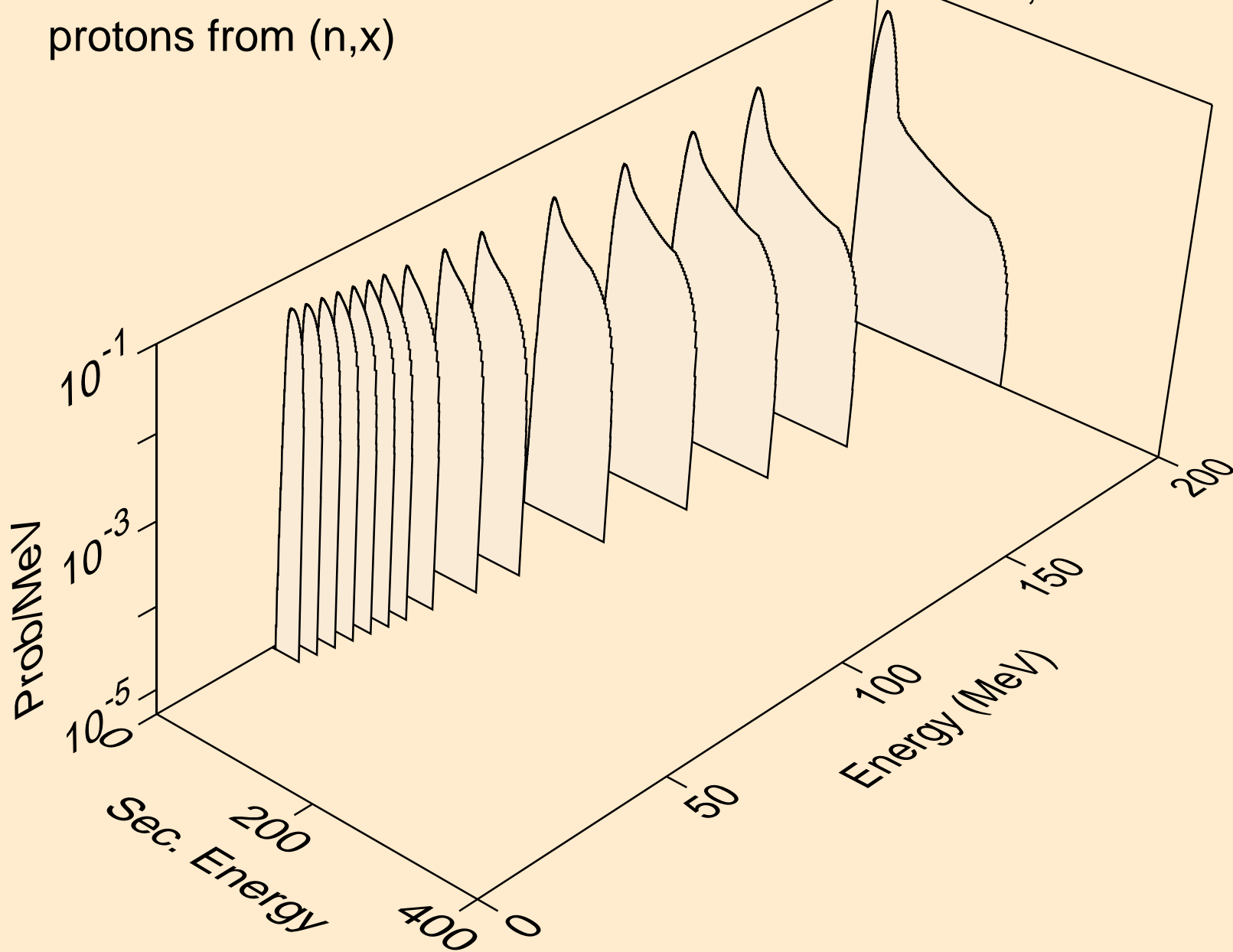
# MD247 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K

## Particle production cross sections

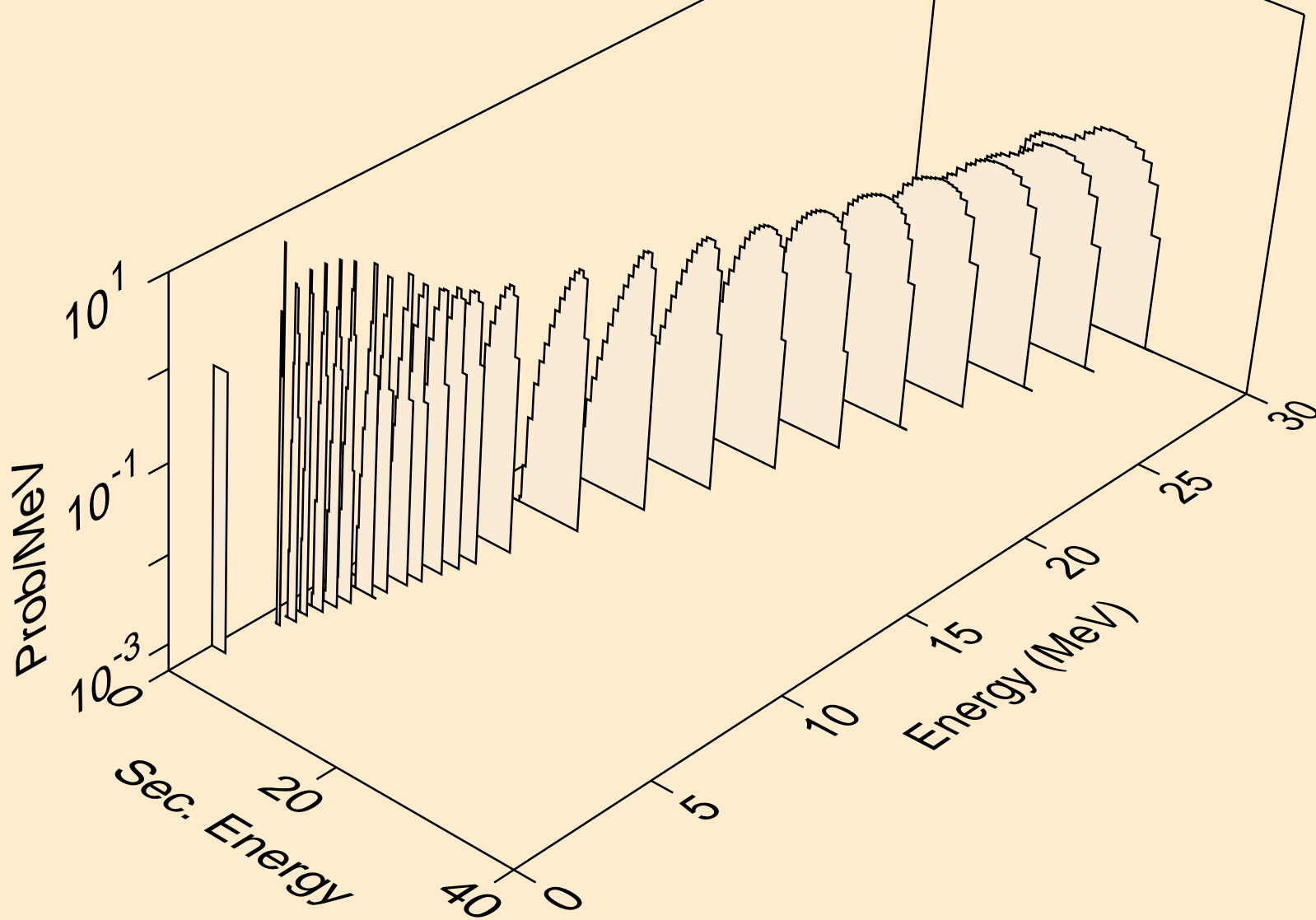




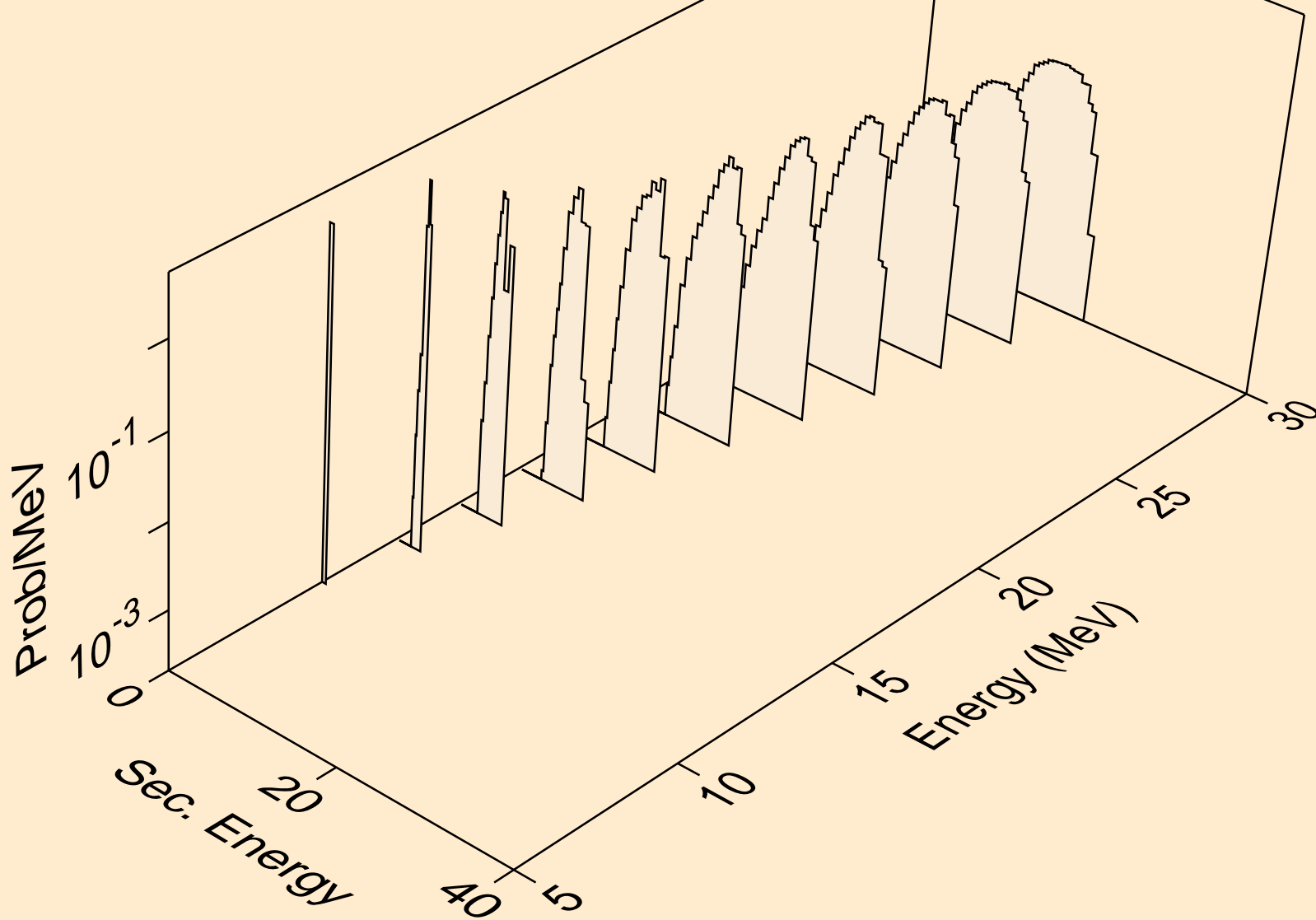
MD247 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
protons from (n,x)



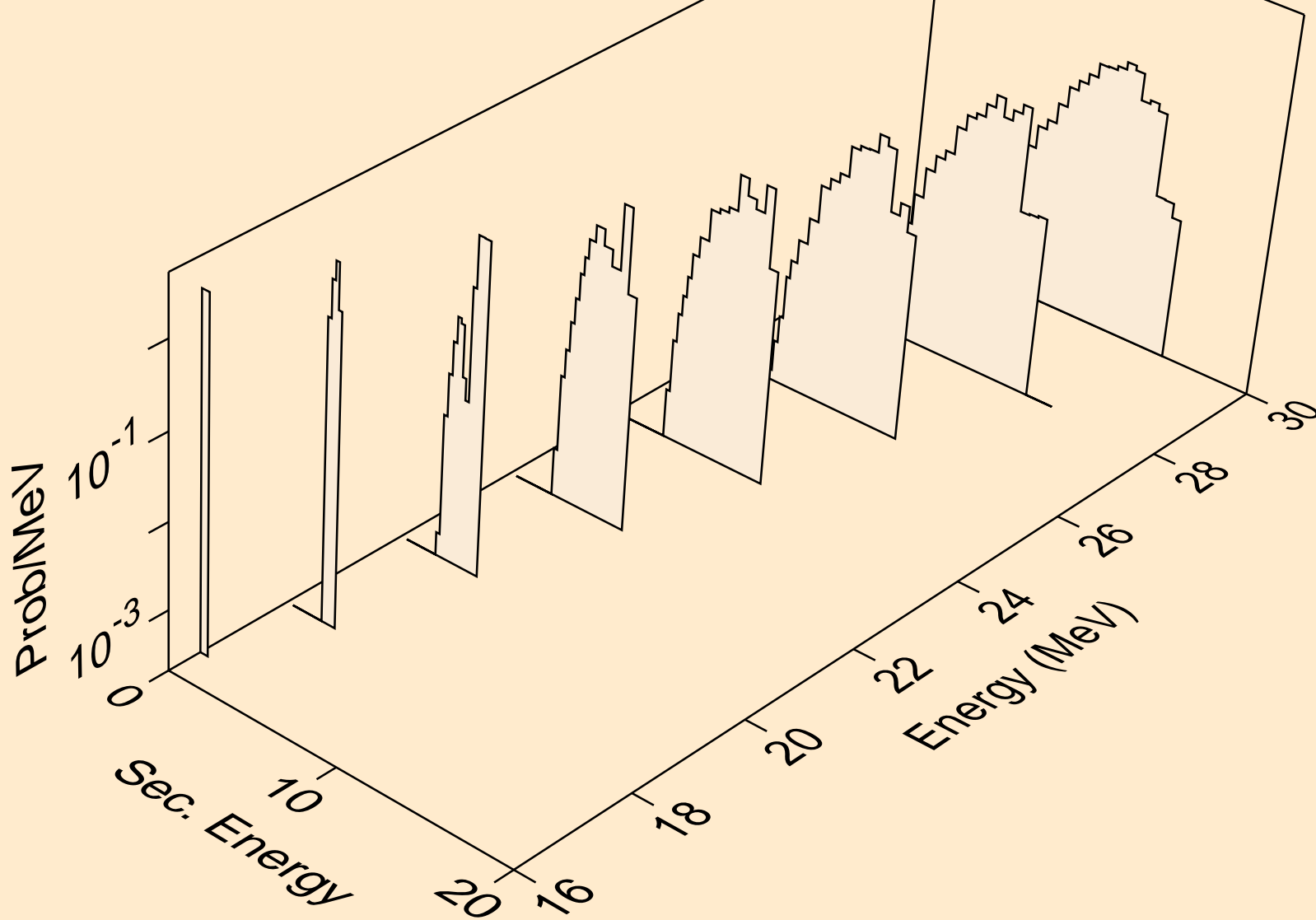
MD247 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
protons from (n,n\*)p



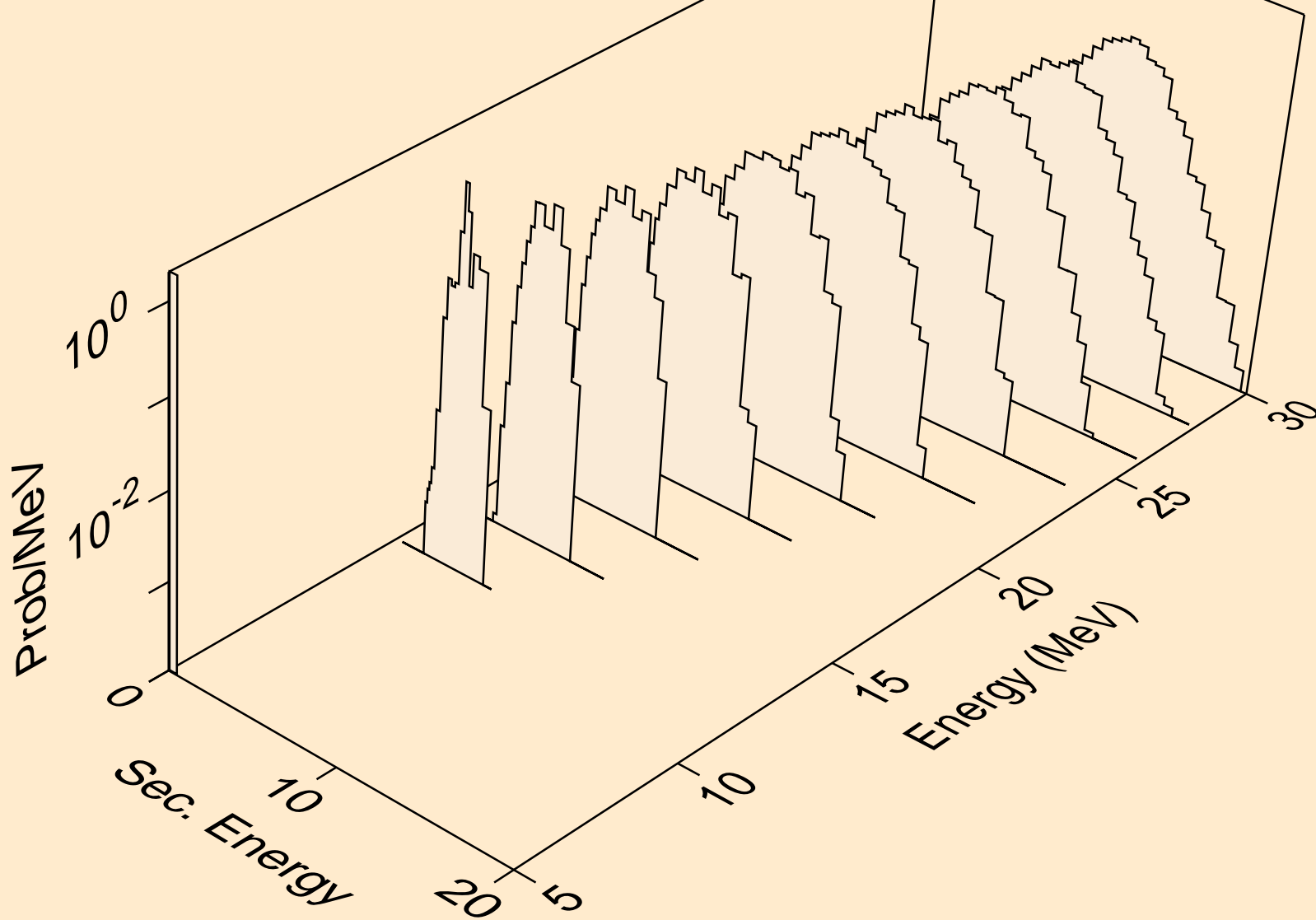
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protons from (n,2np)



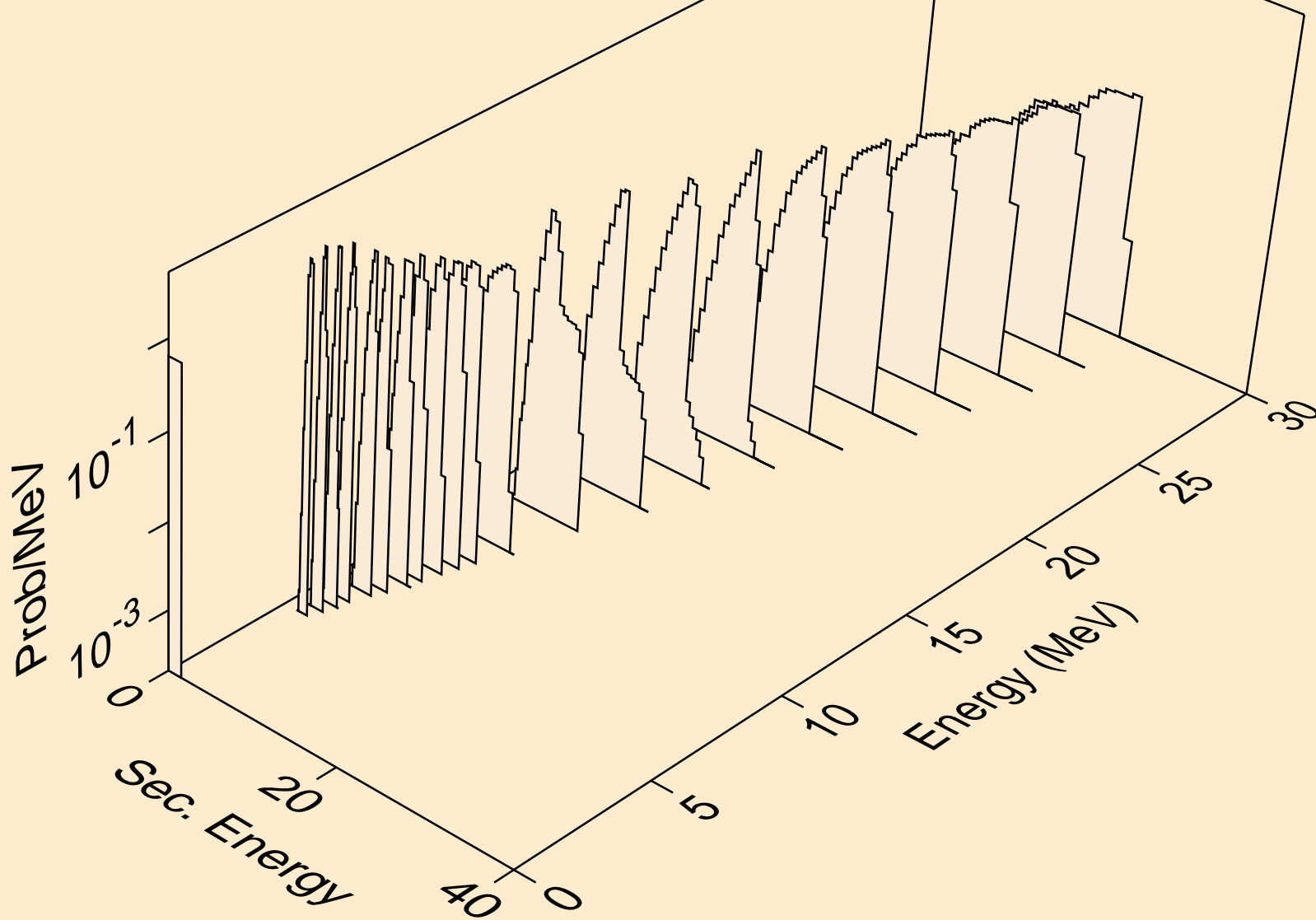
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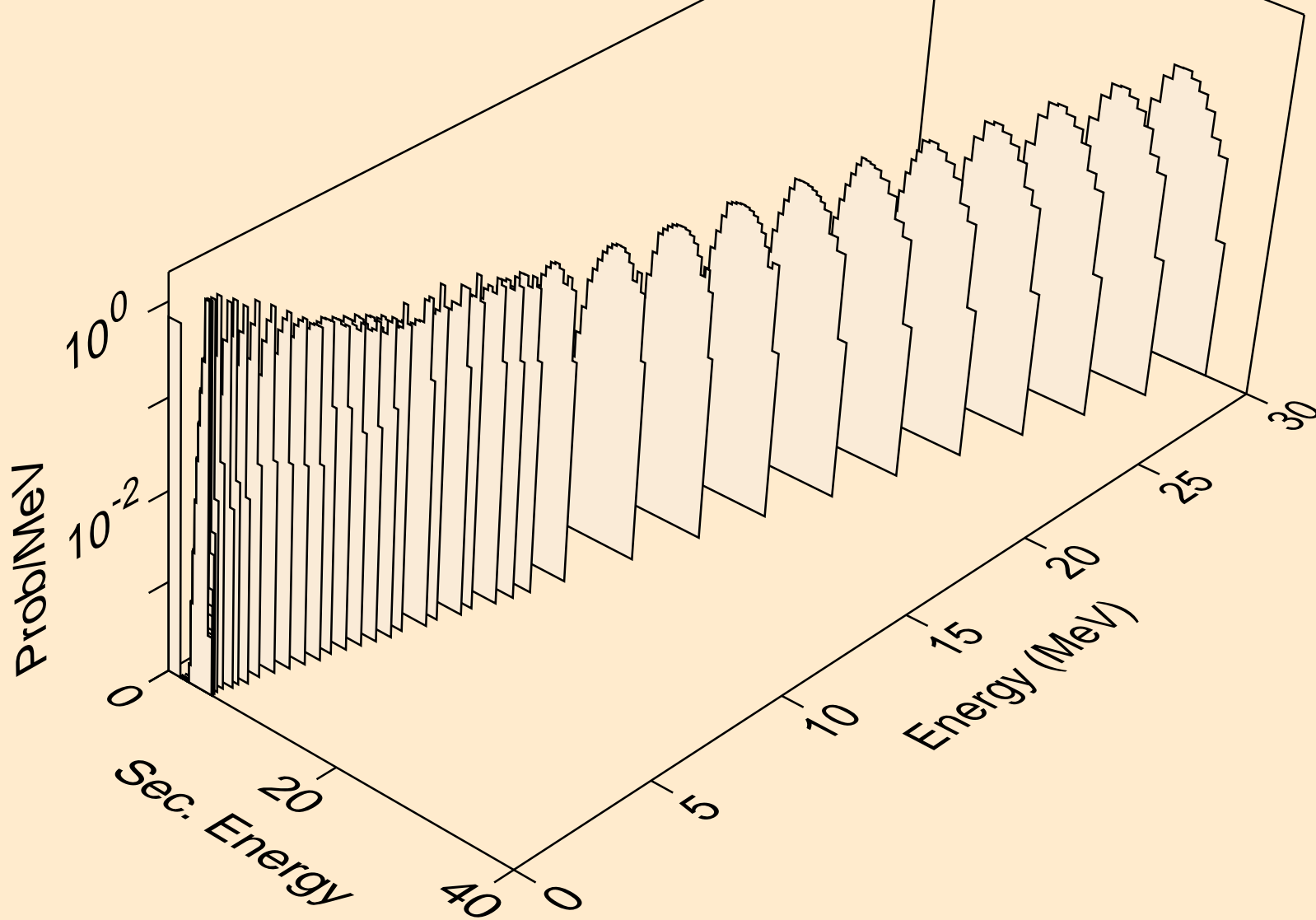
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protons from (n,2np)



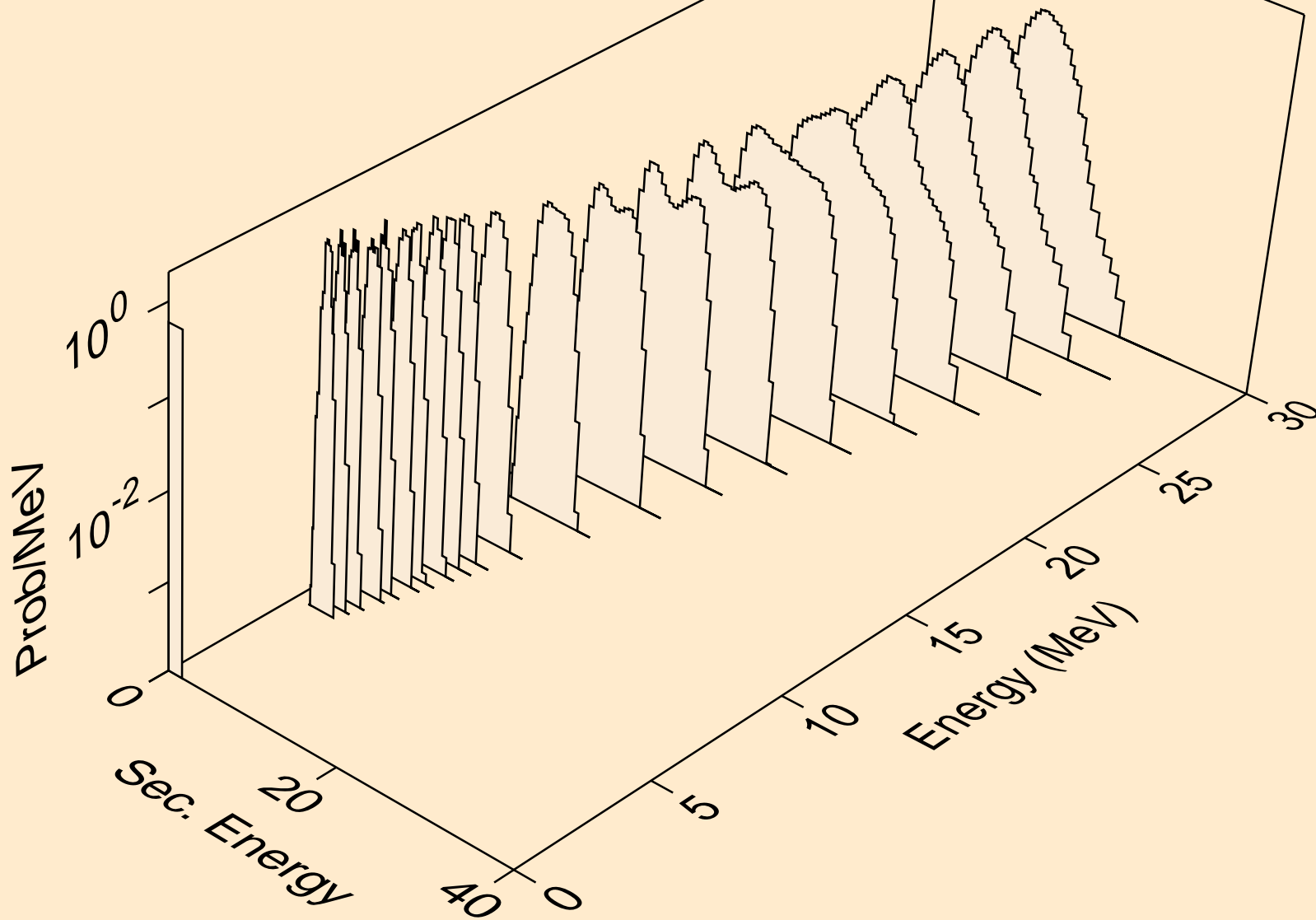
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protons from (n,npa)



MD247 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
protons from (n,p)

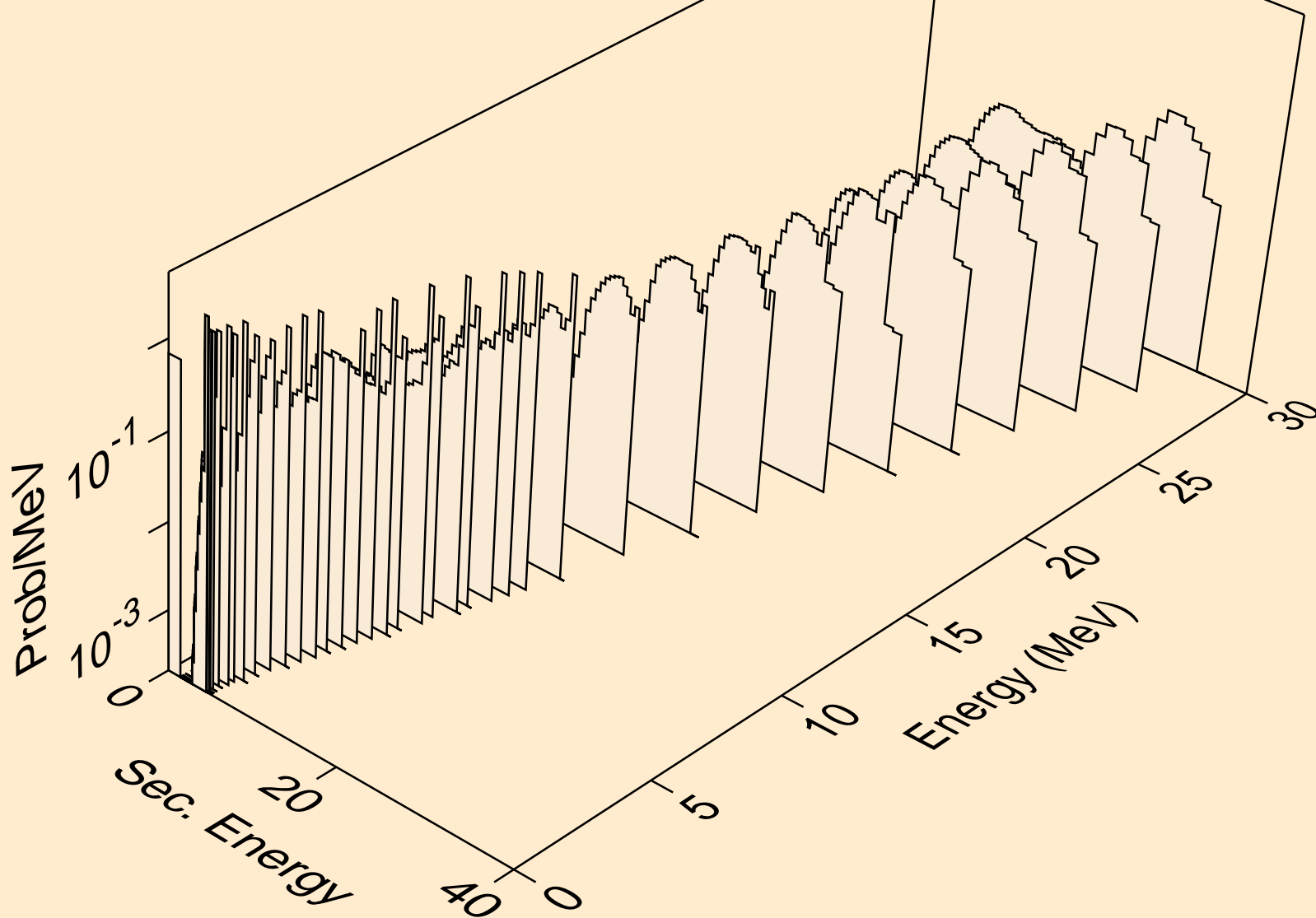


MD247 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
protons from (n,2p)

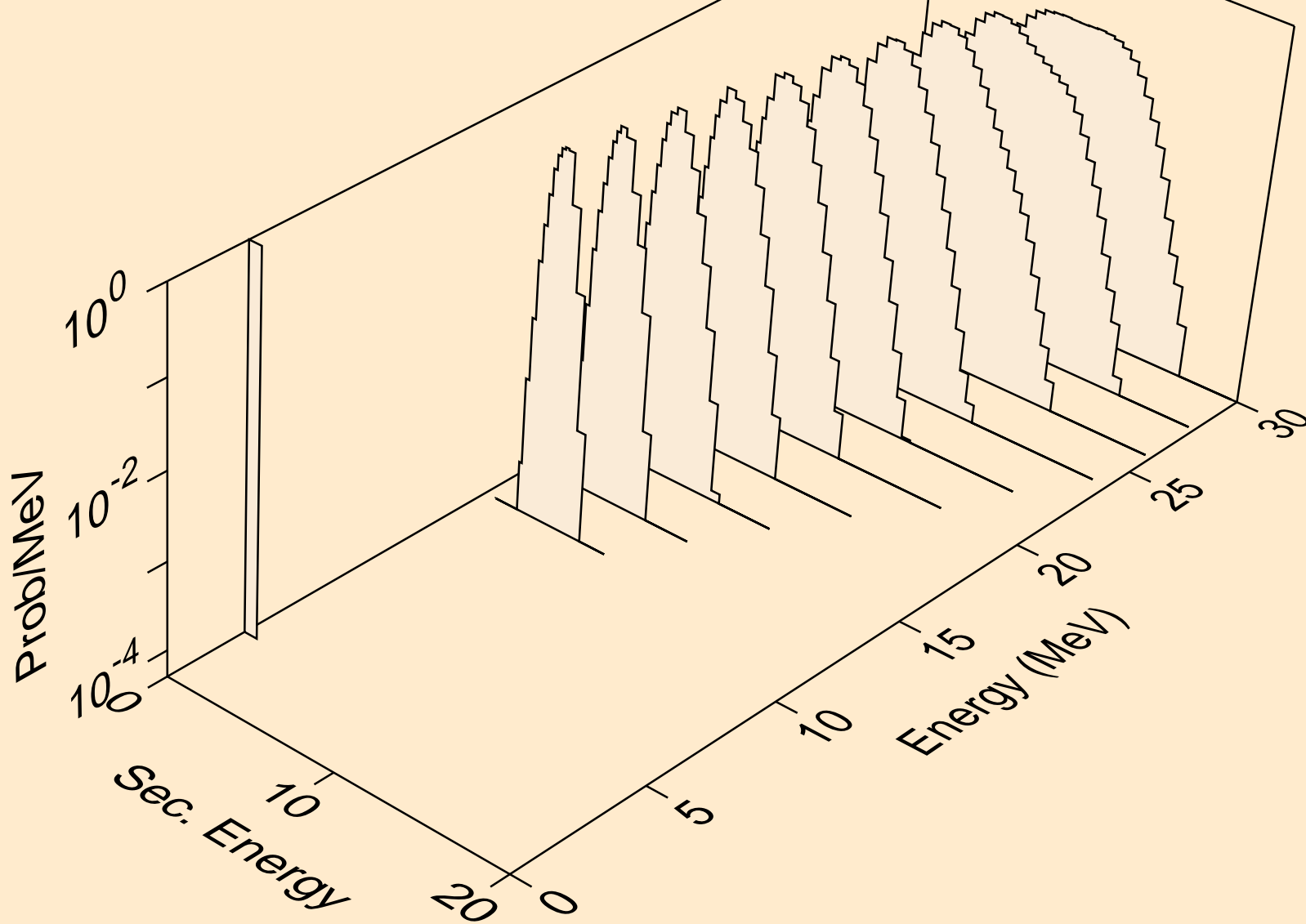




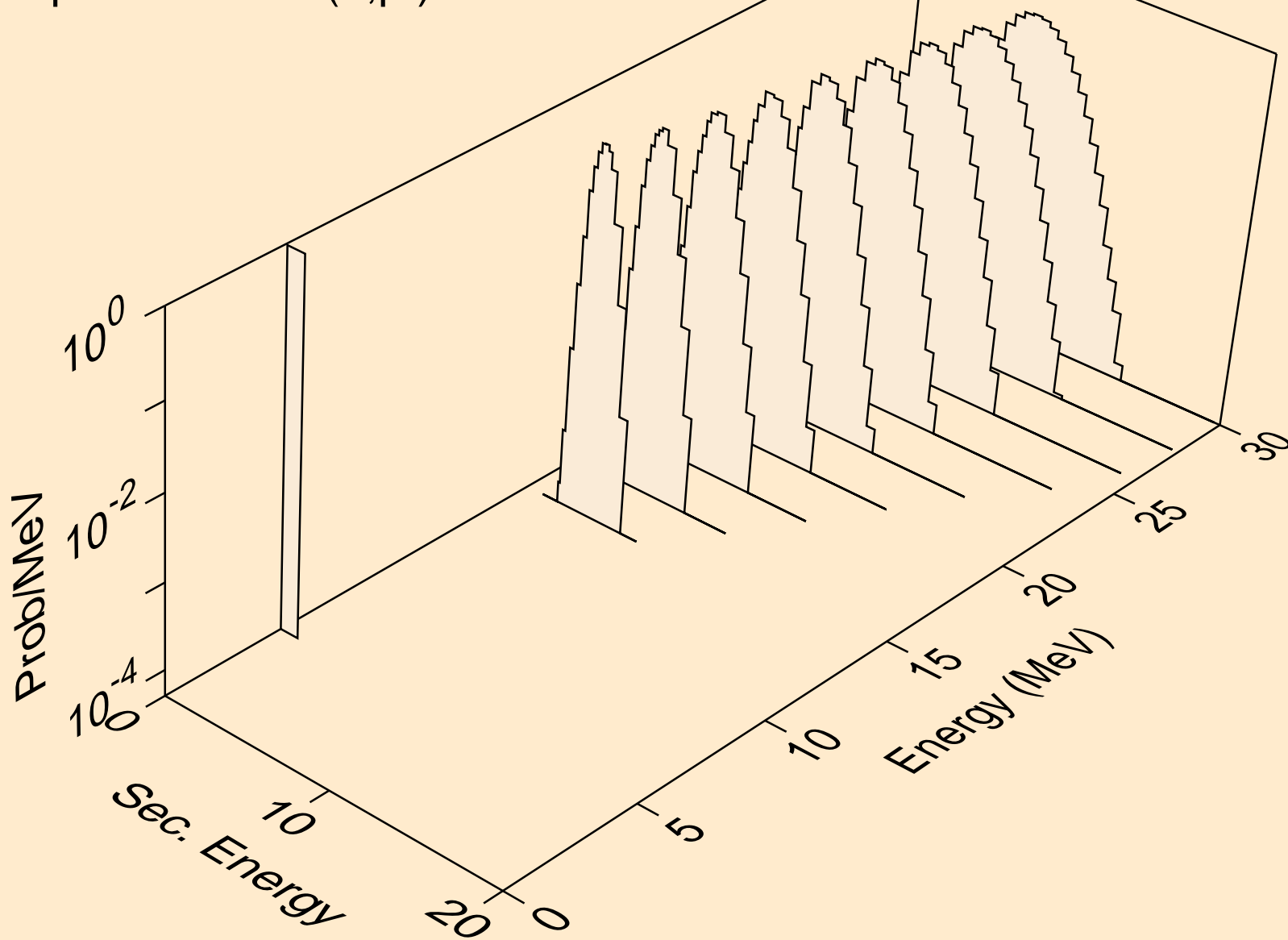
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protons from (n,p)



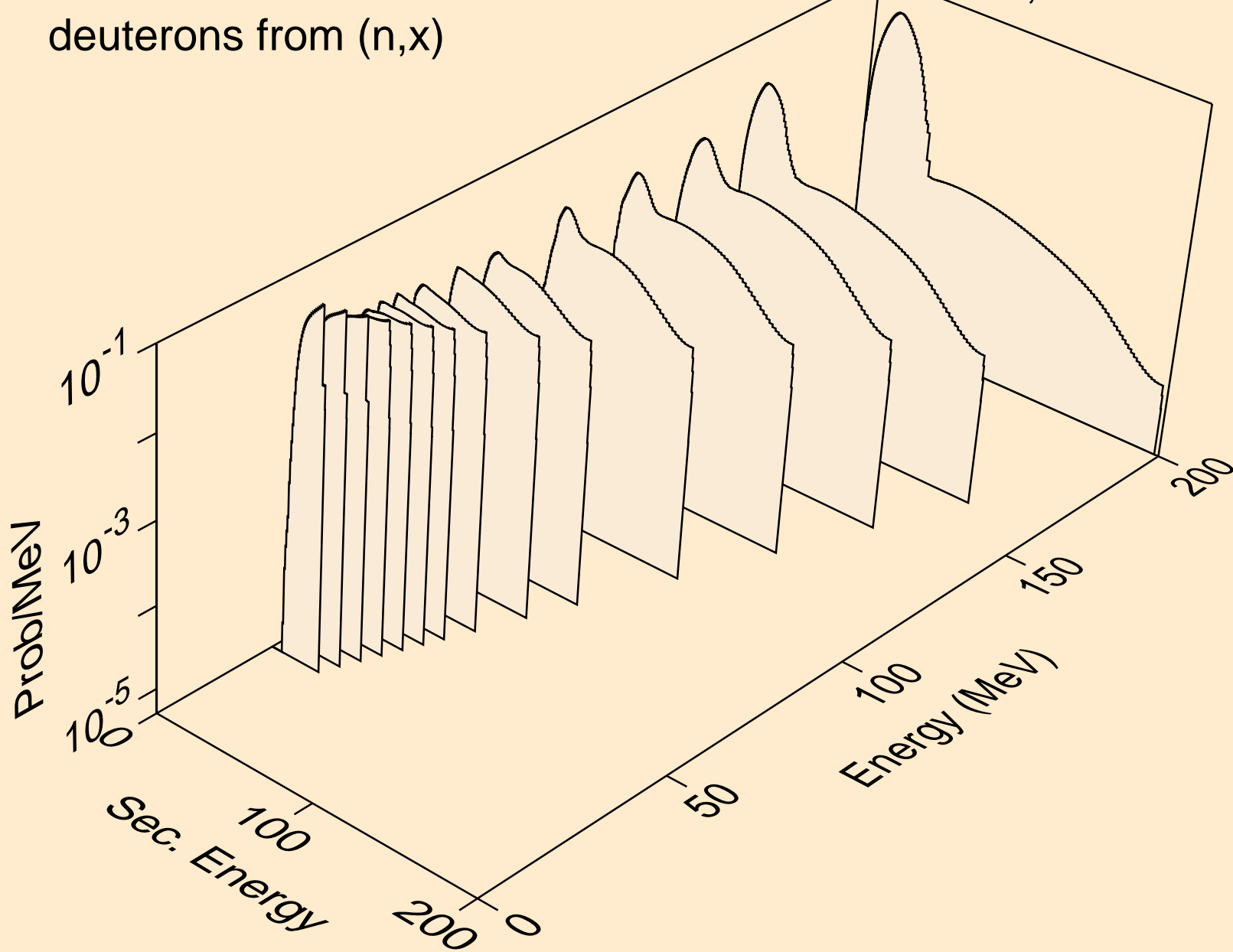
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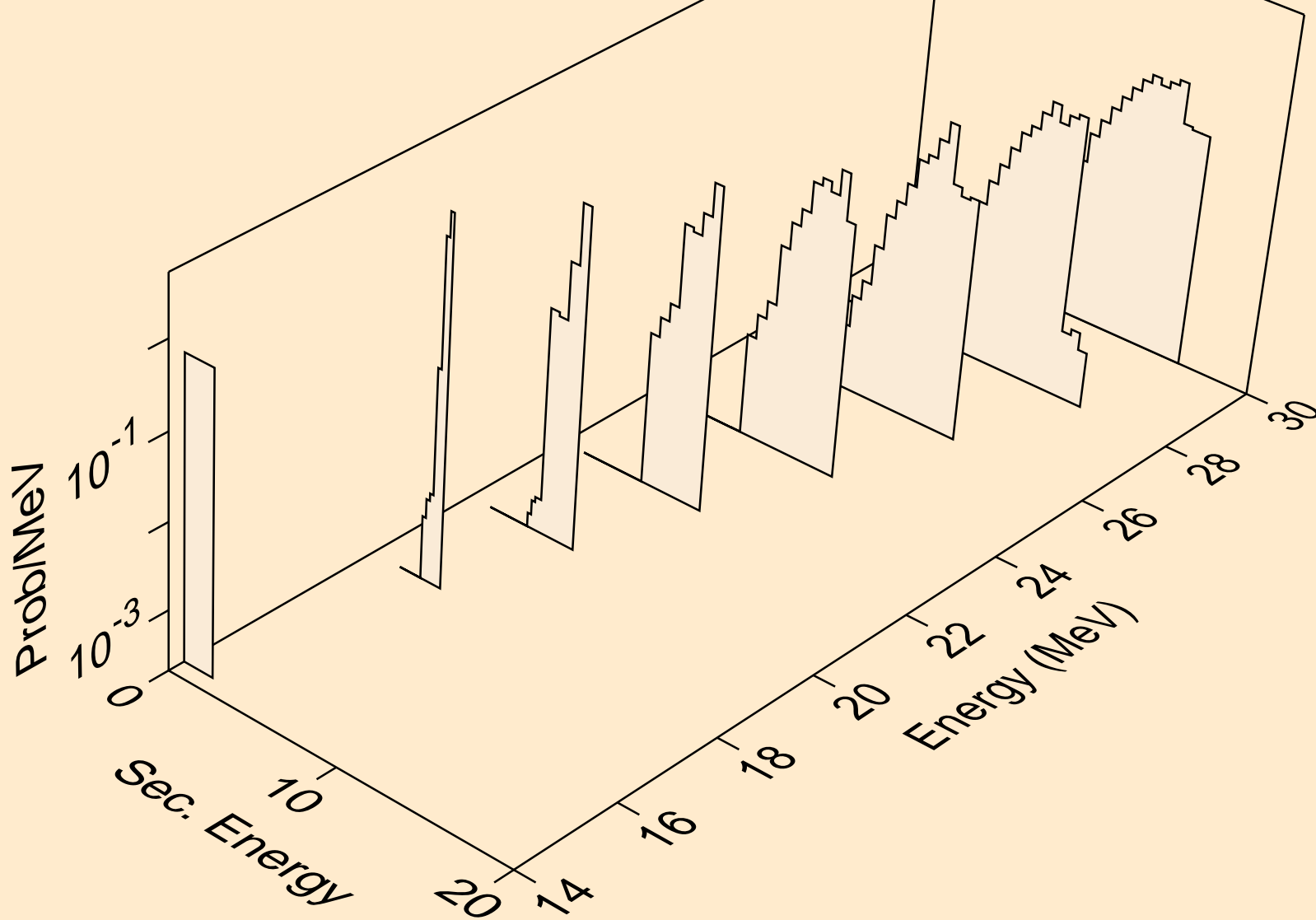
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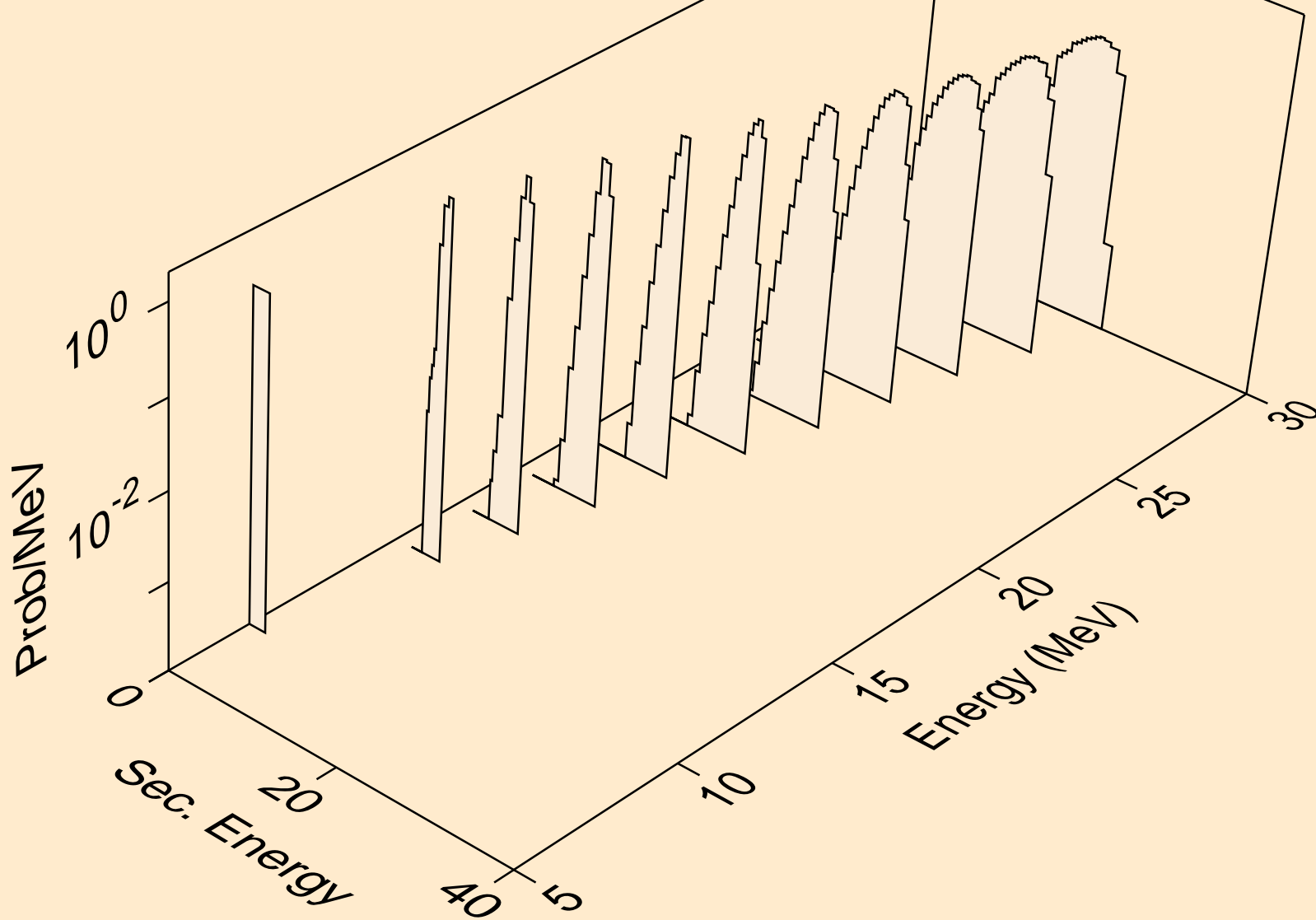
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deuterons from (n,x)



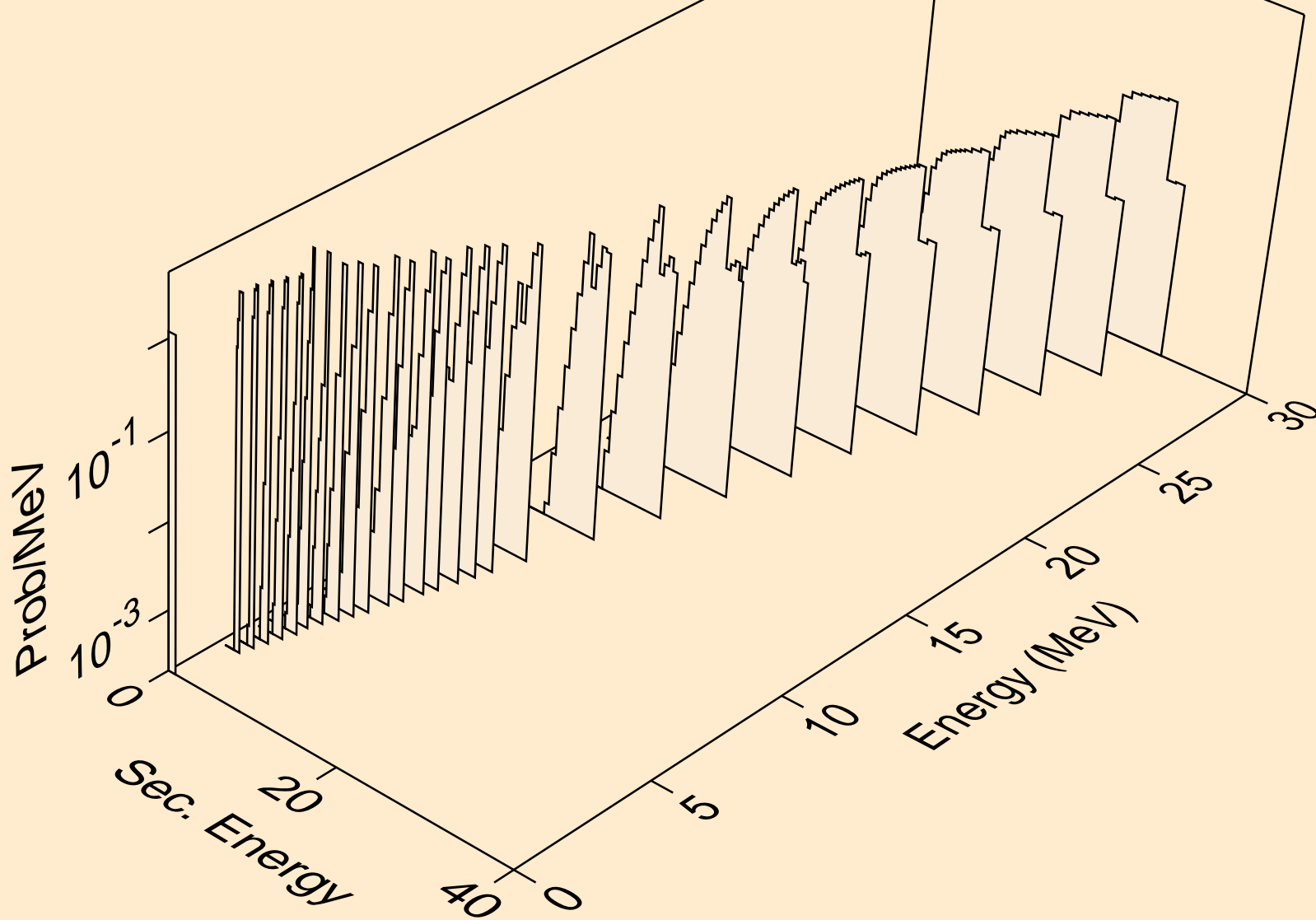
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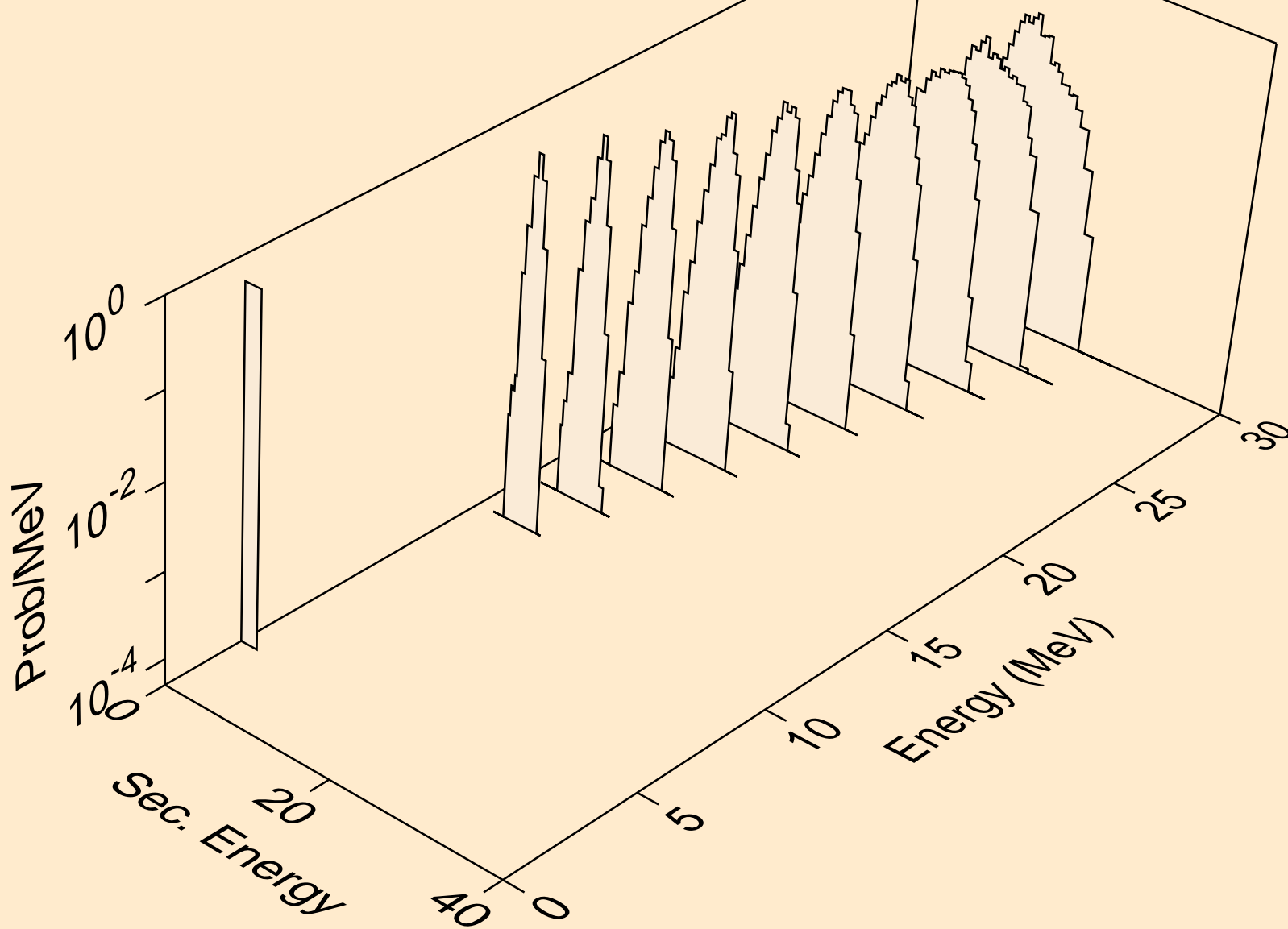
MD247 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
deuterons from (n,n\*)d



MD247 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
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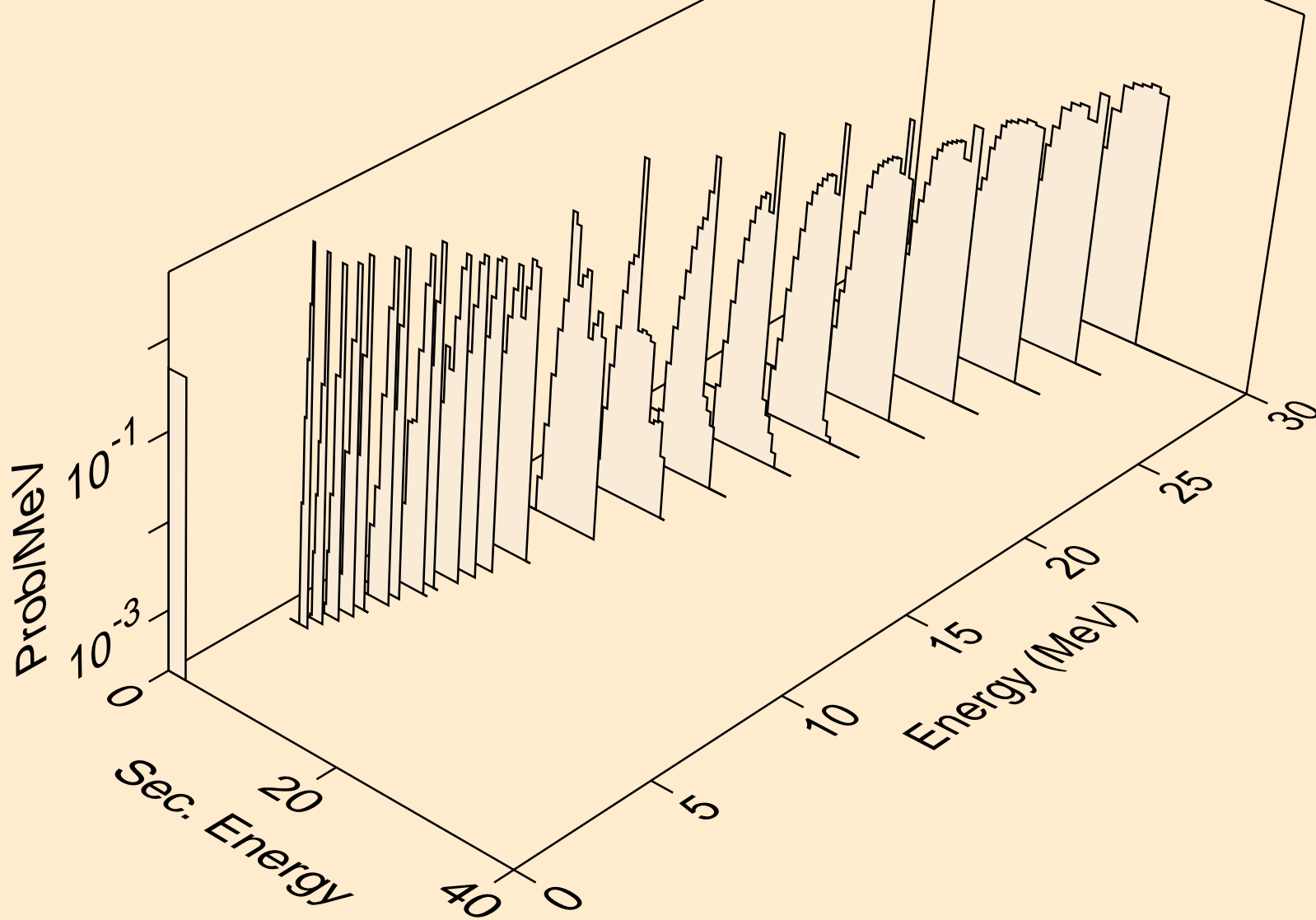


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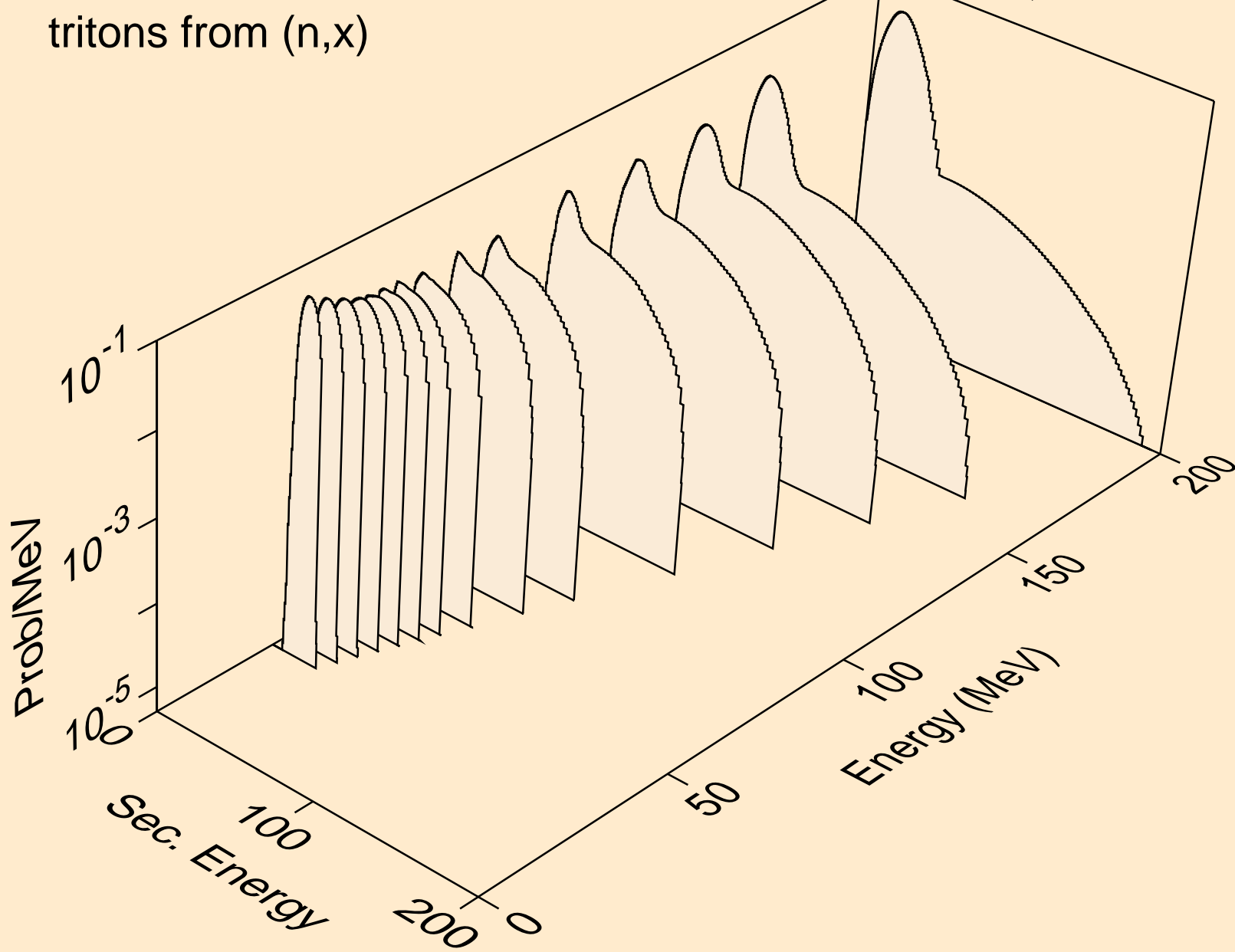




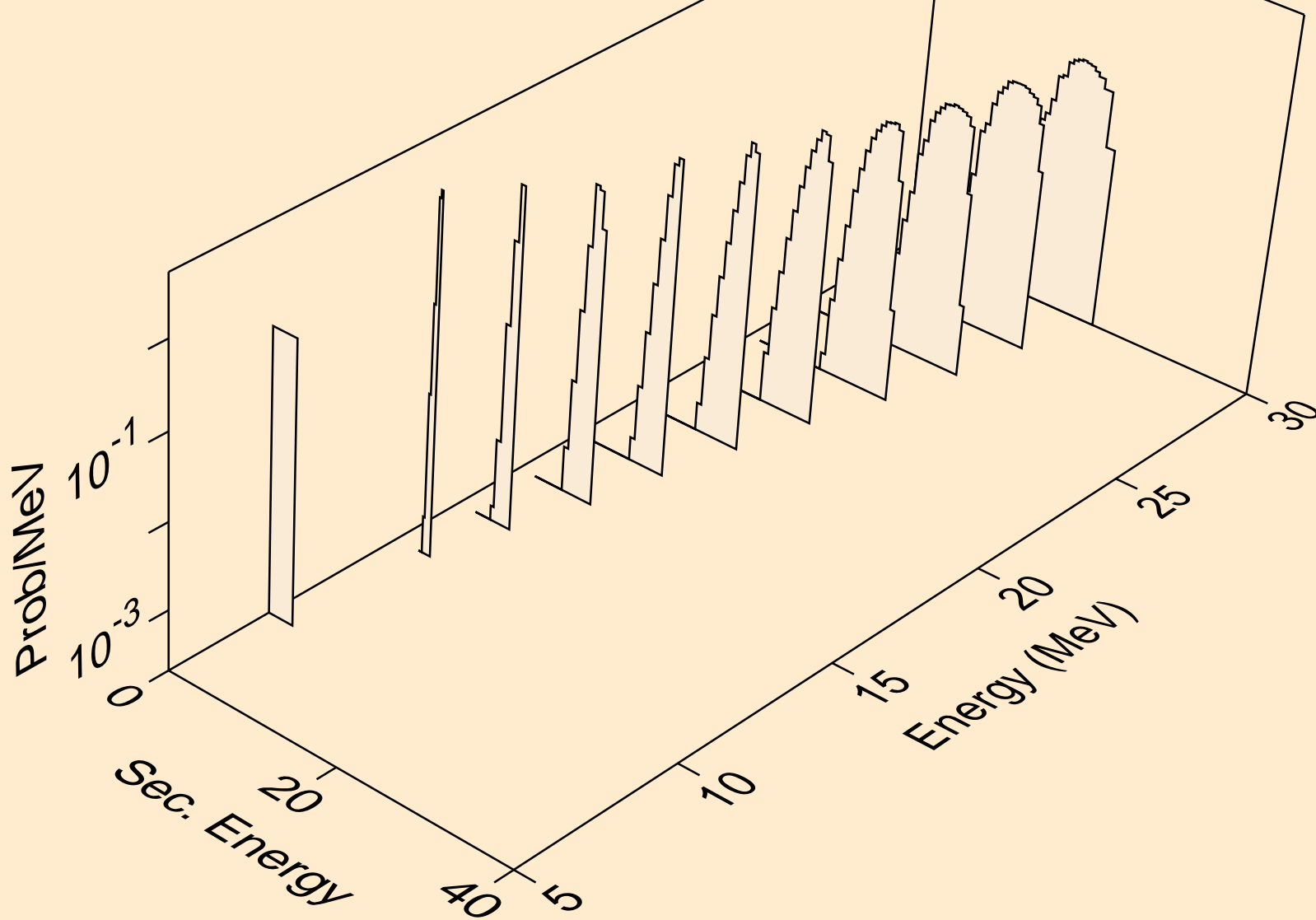
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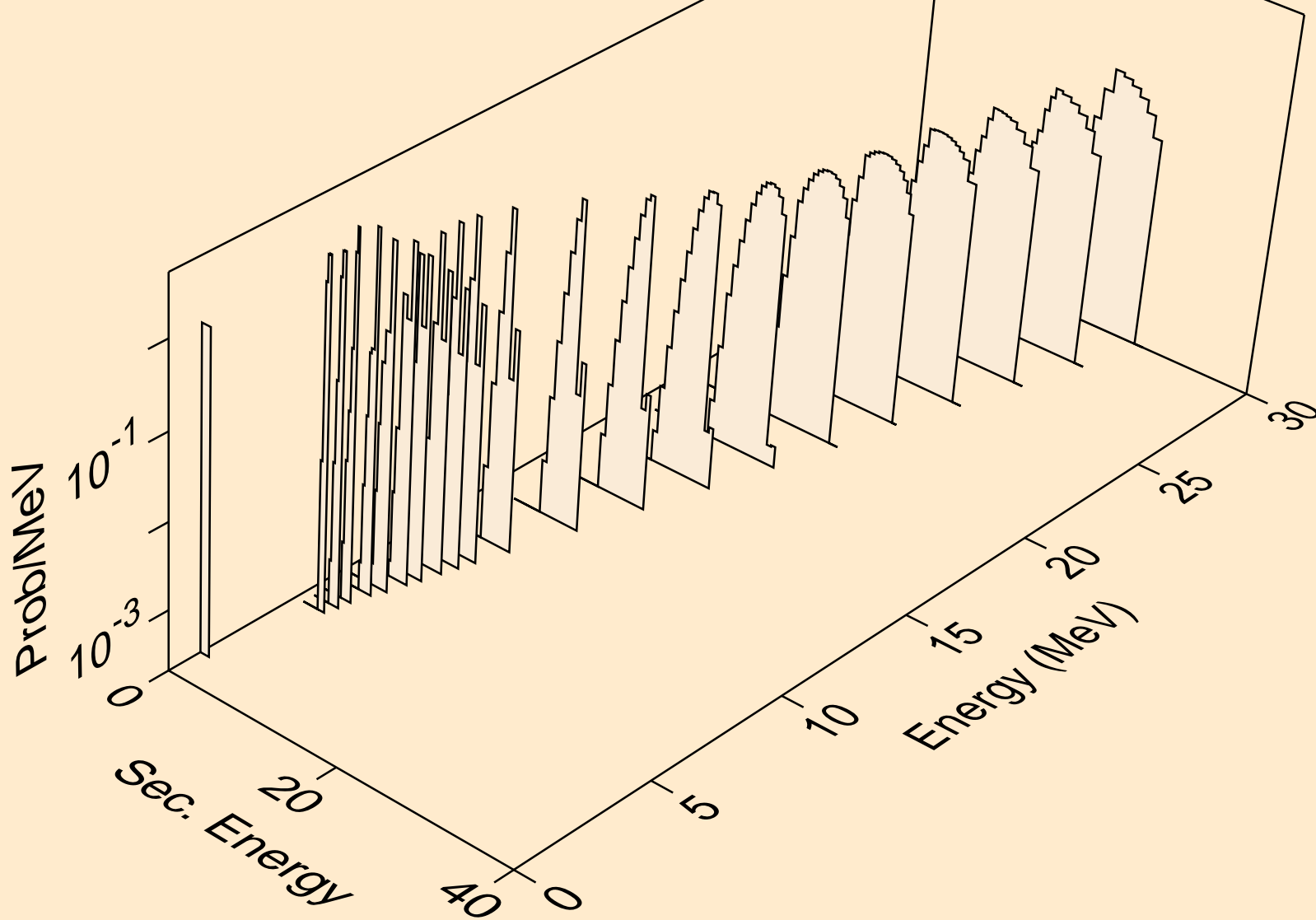
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tritons from (n,x)



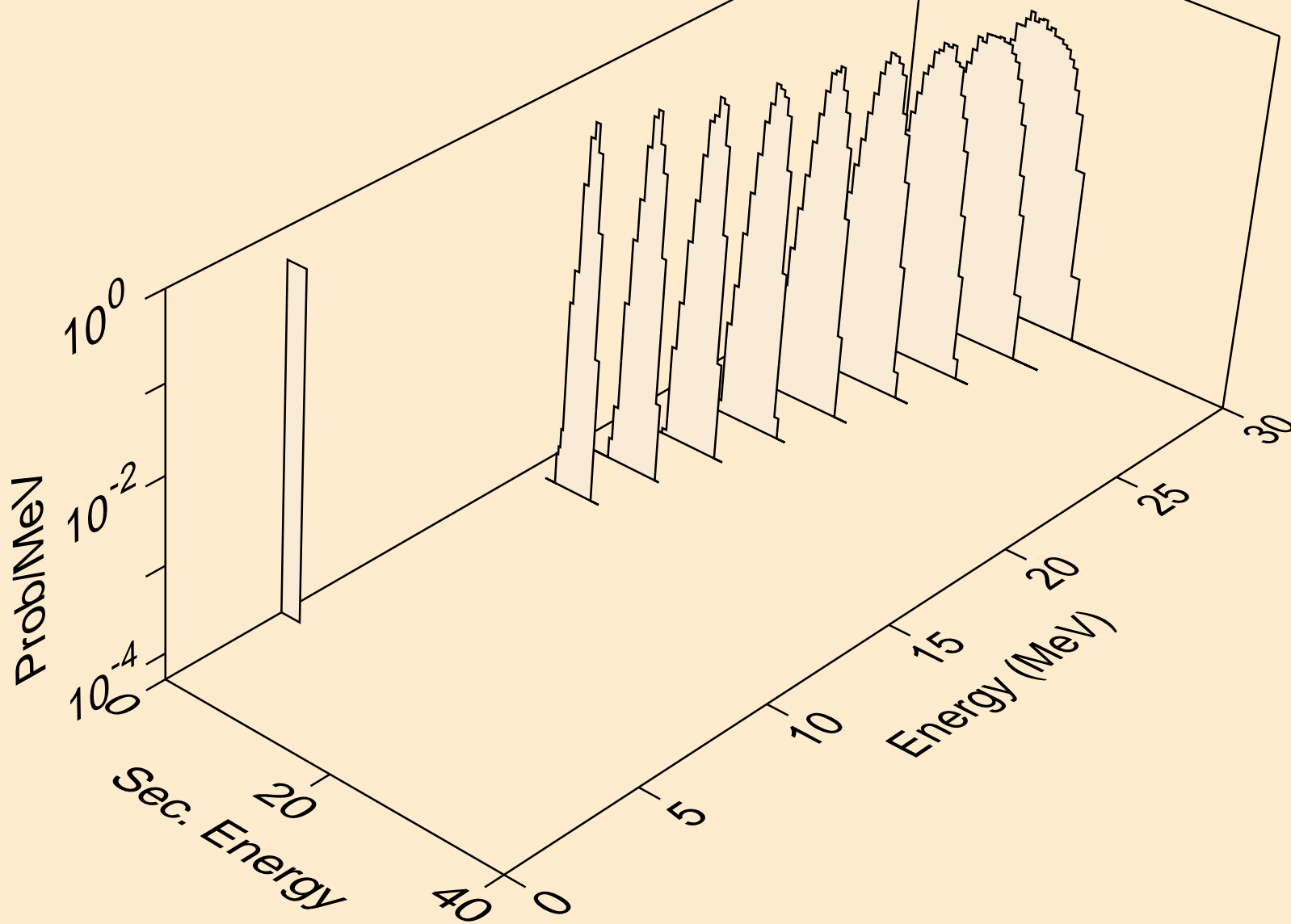
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tritons from (n,n\*)t



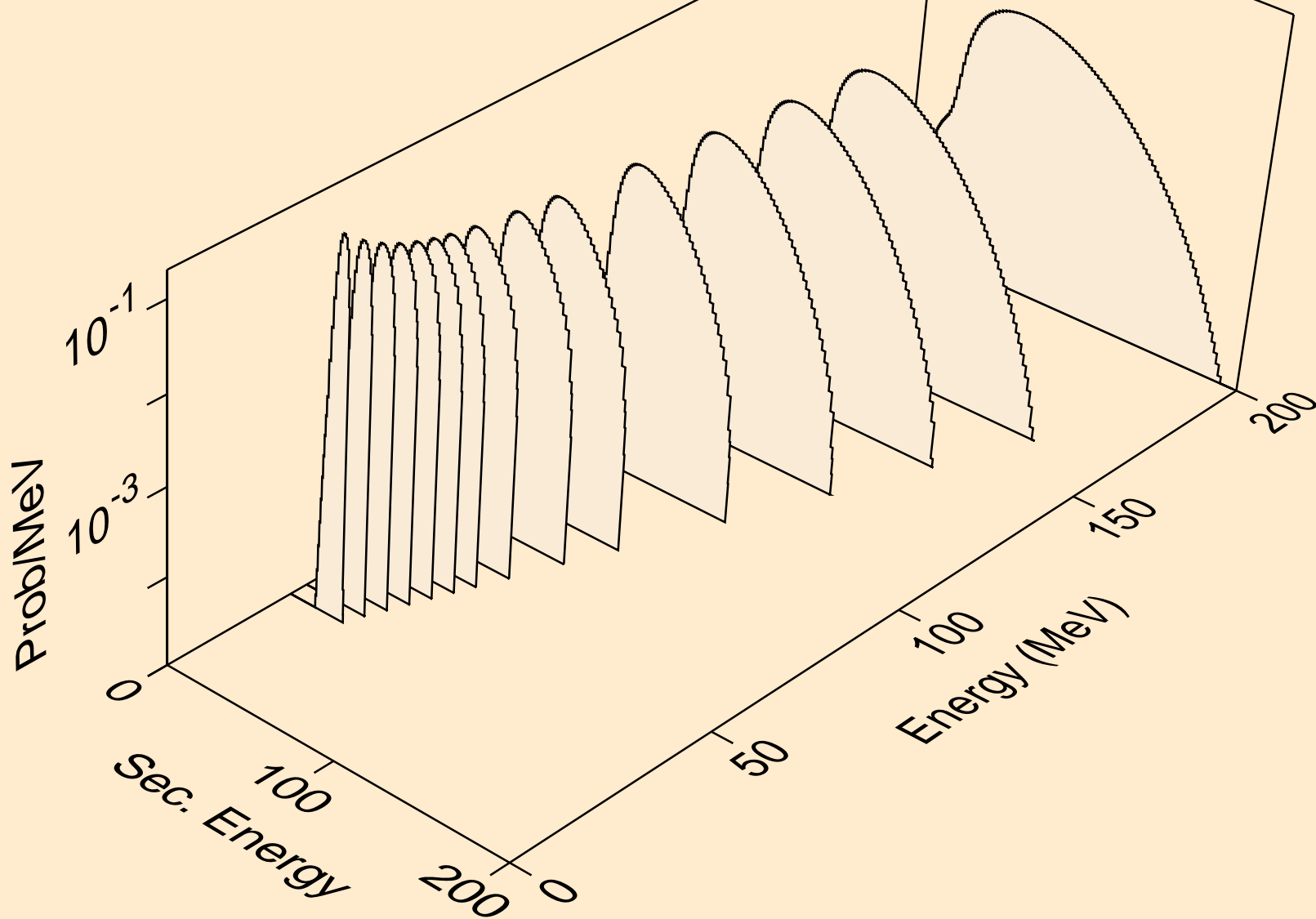
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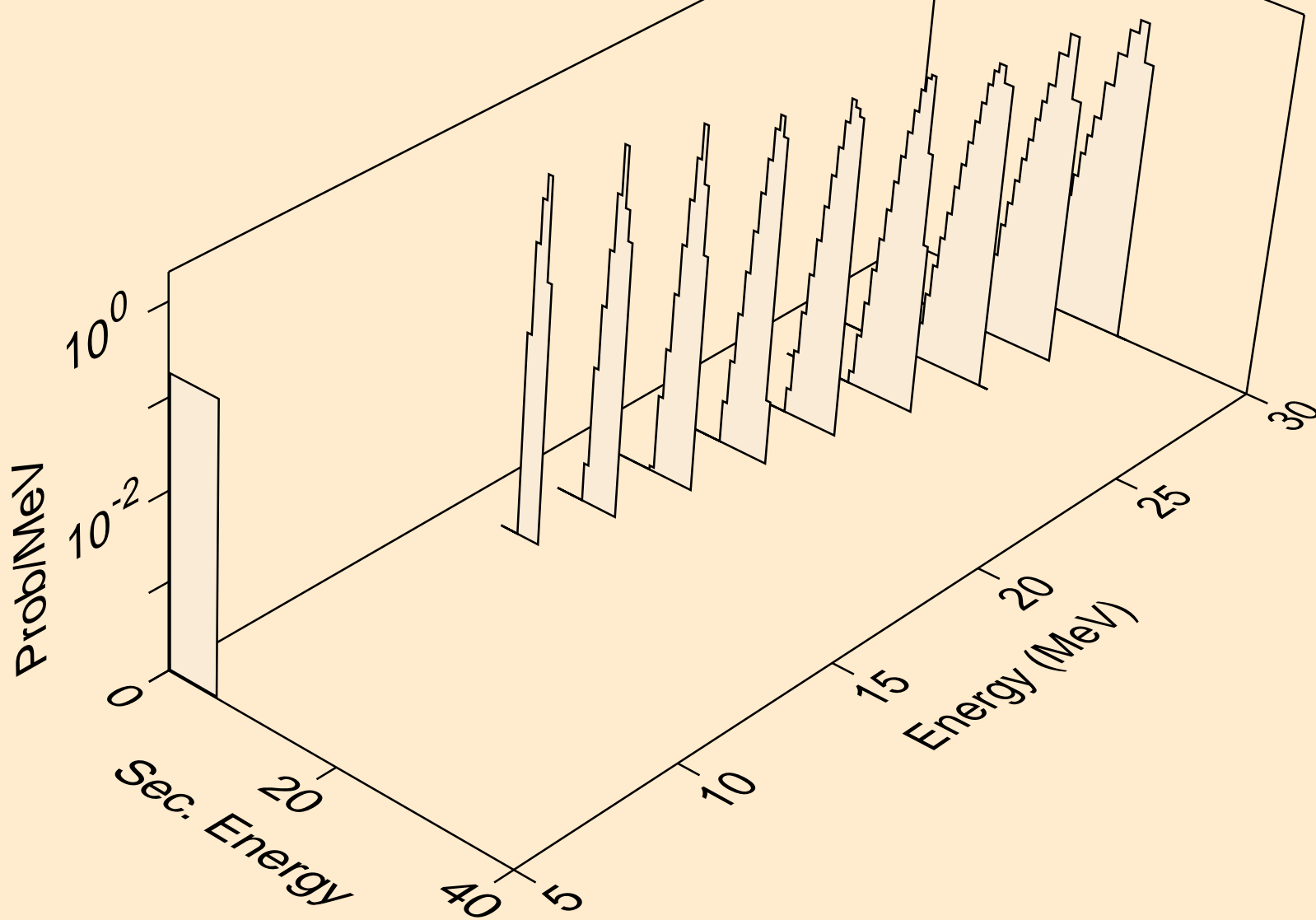
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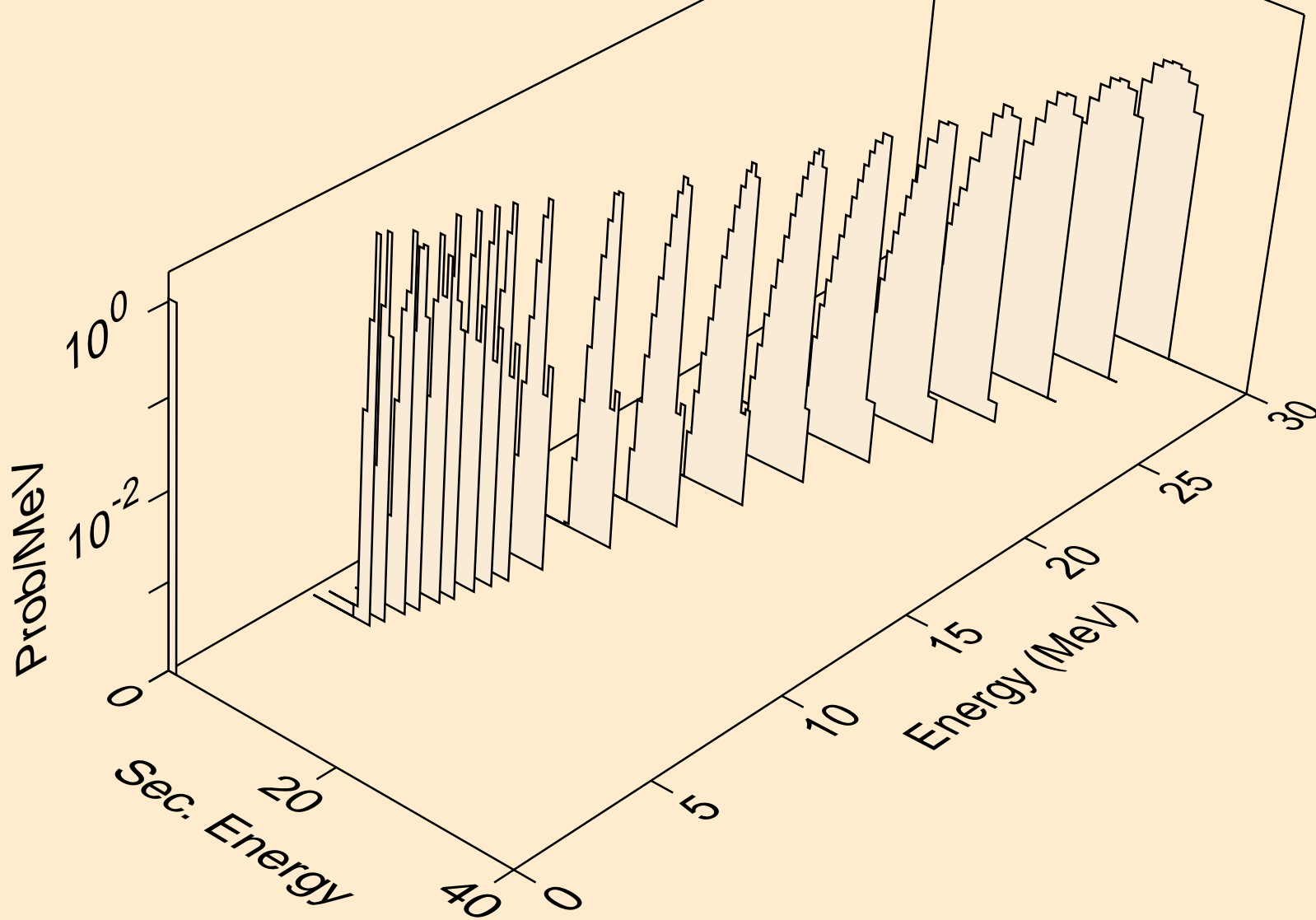
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he3s from (n,x)



MD247 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
he3s from (n,n\*)he3

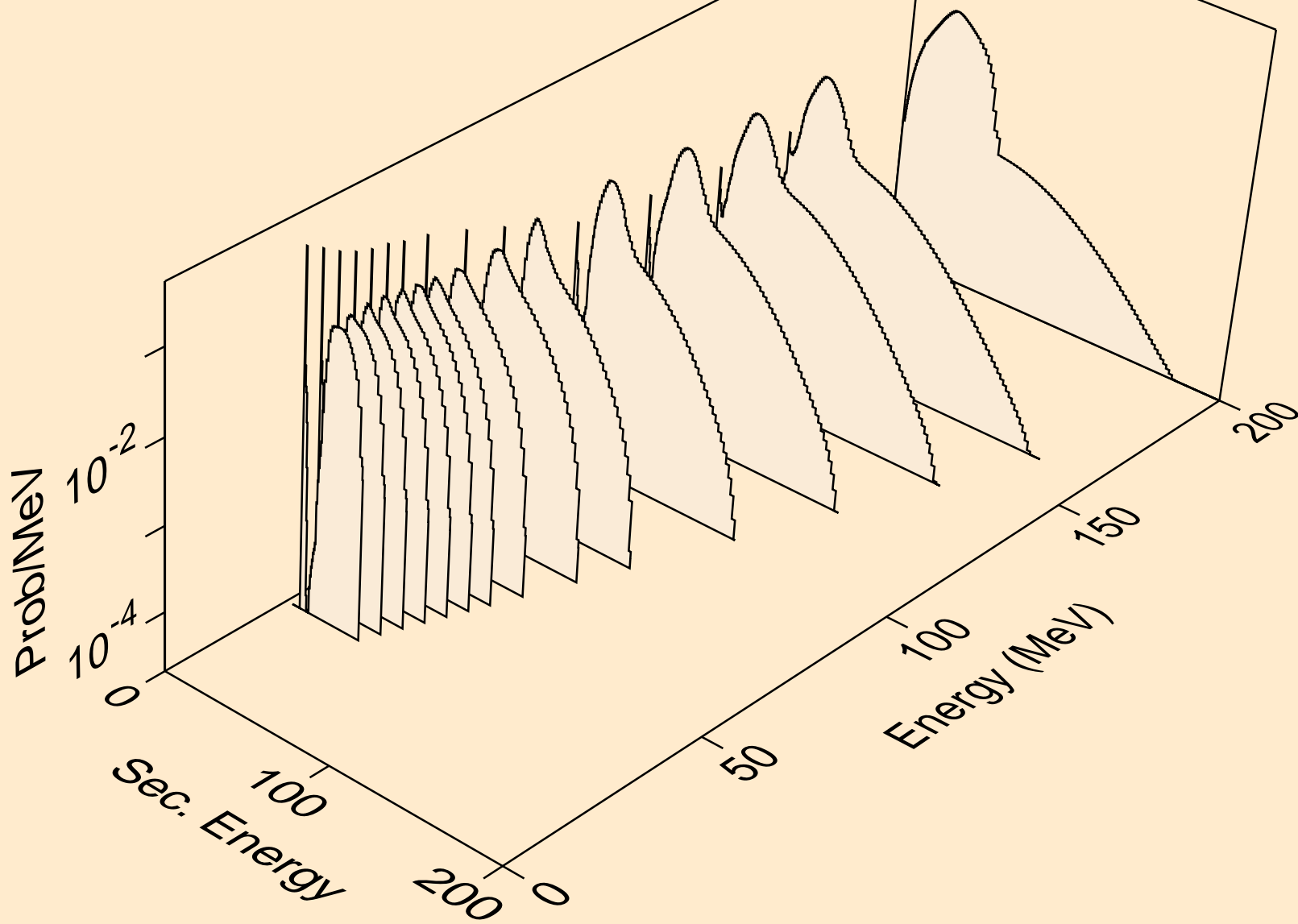


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he3s from (n,he3)

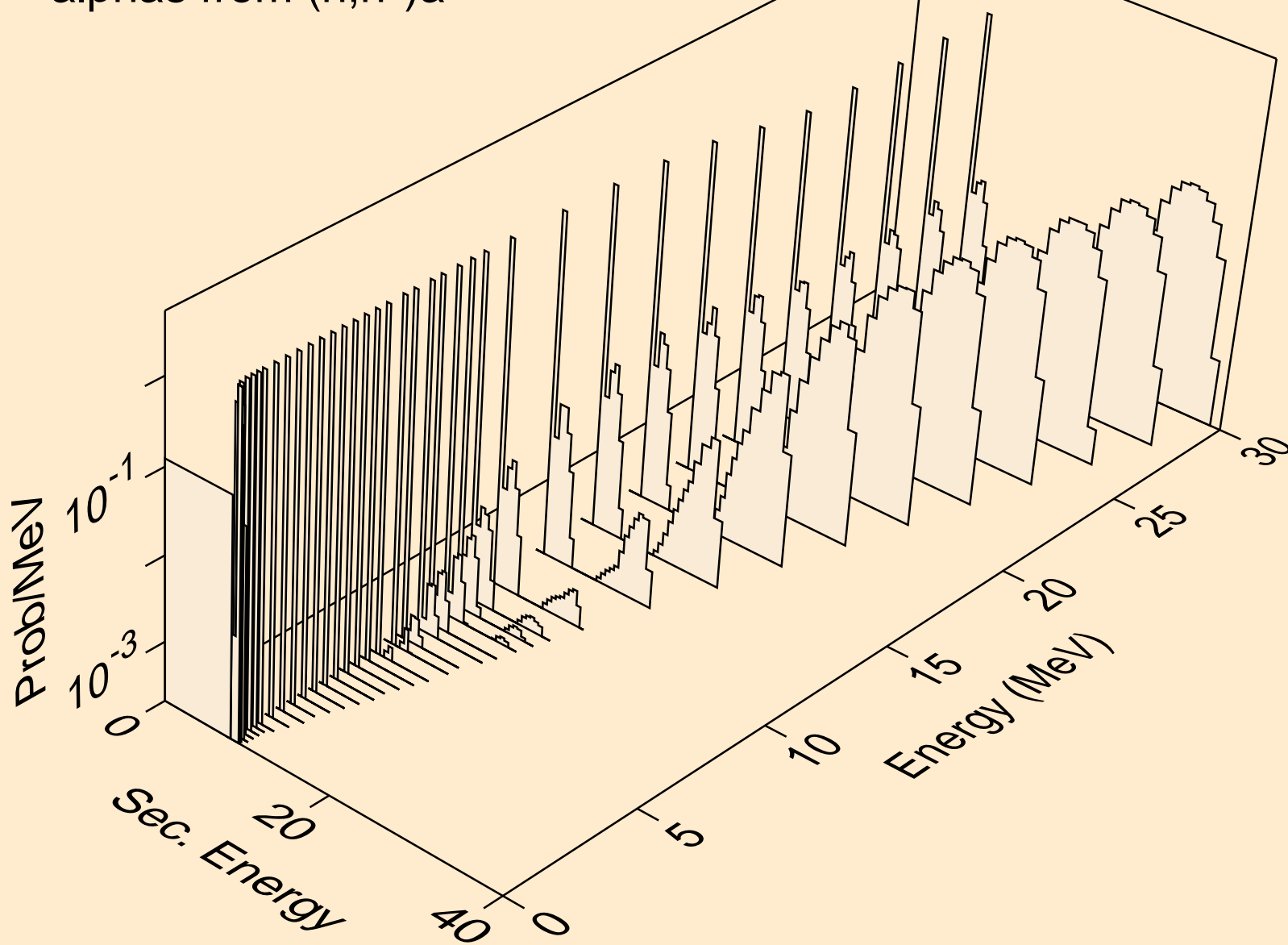




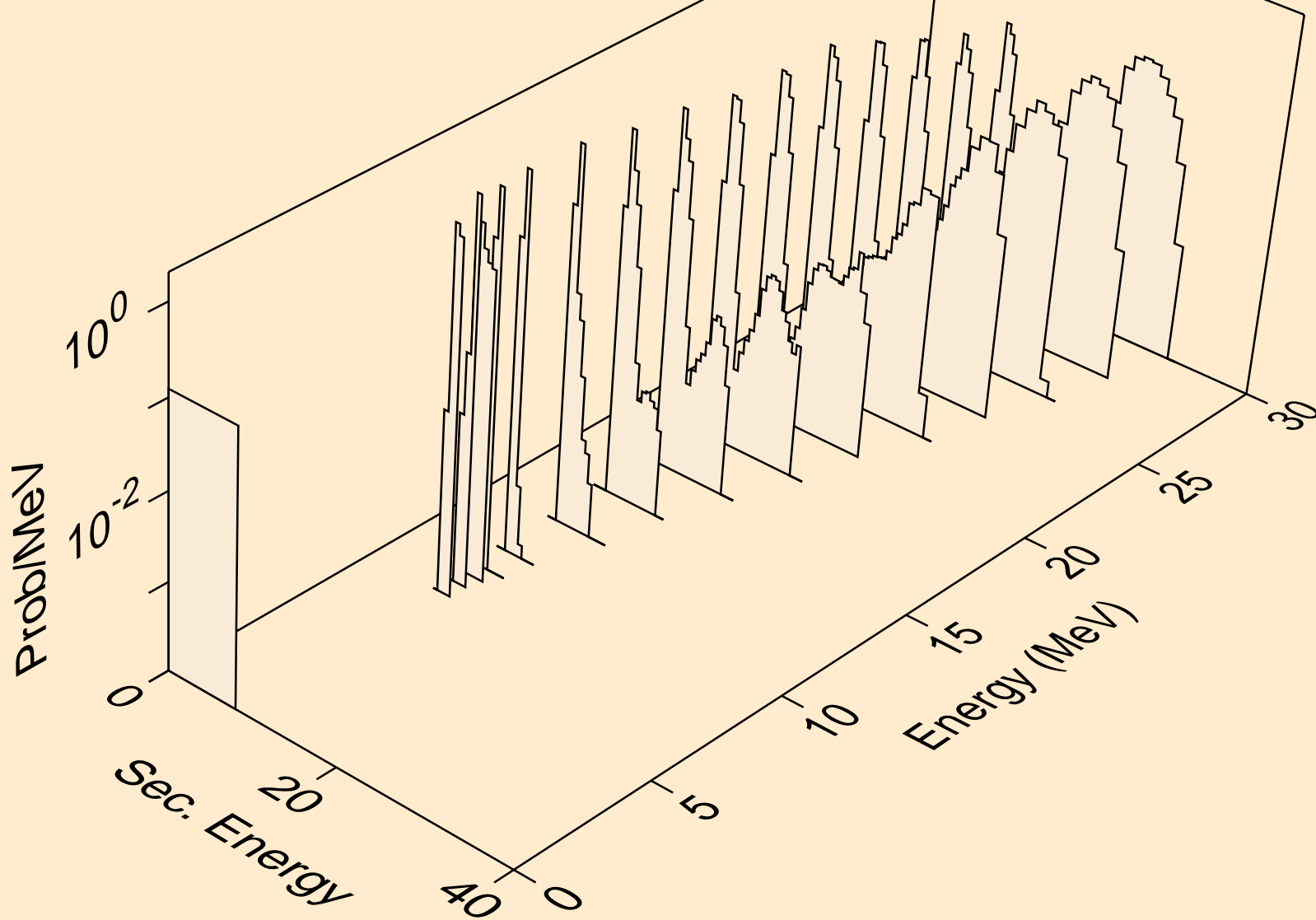
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alphas from (n,x)



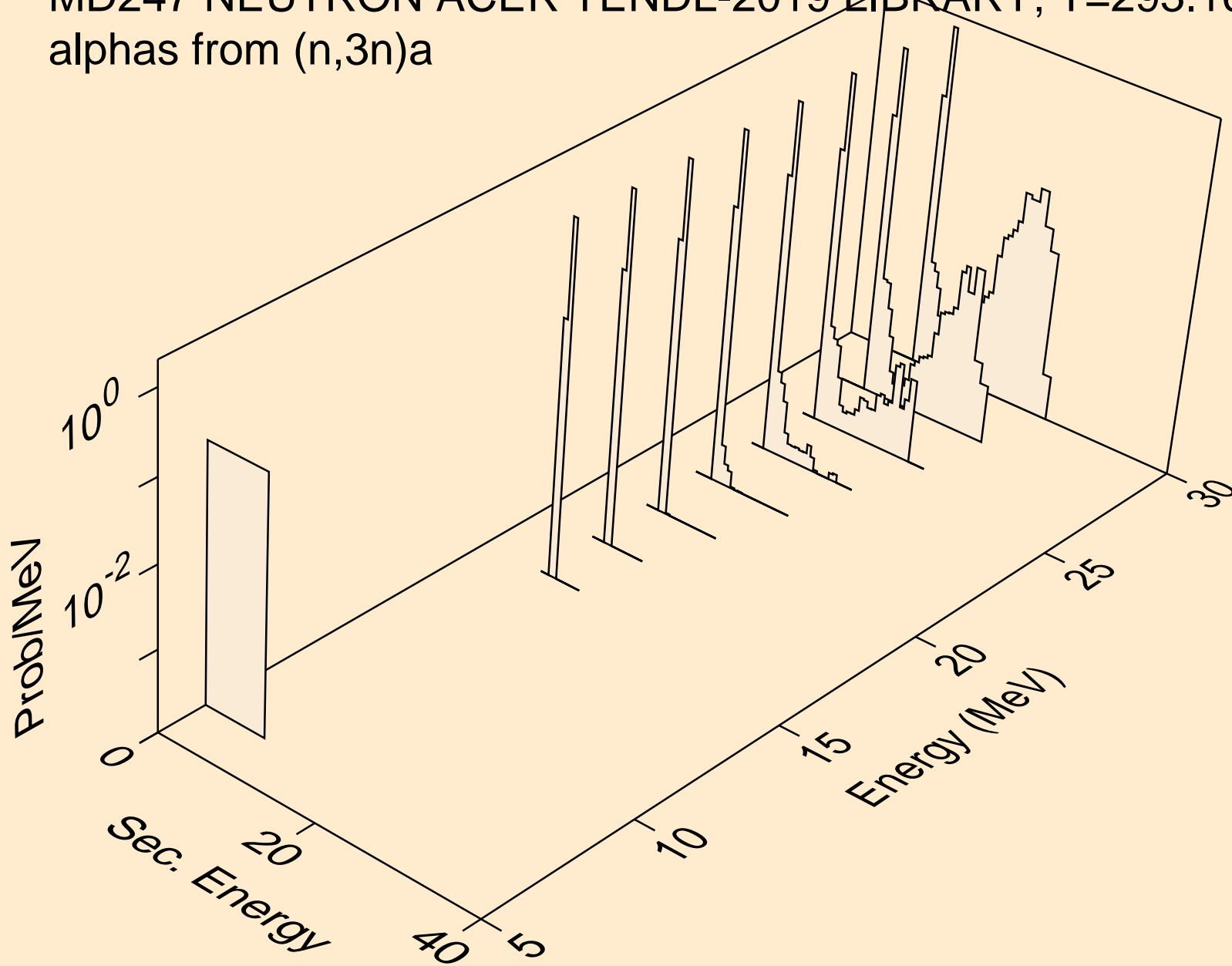
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alphas from (n,n\*)a



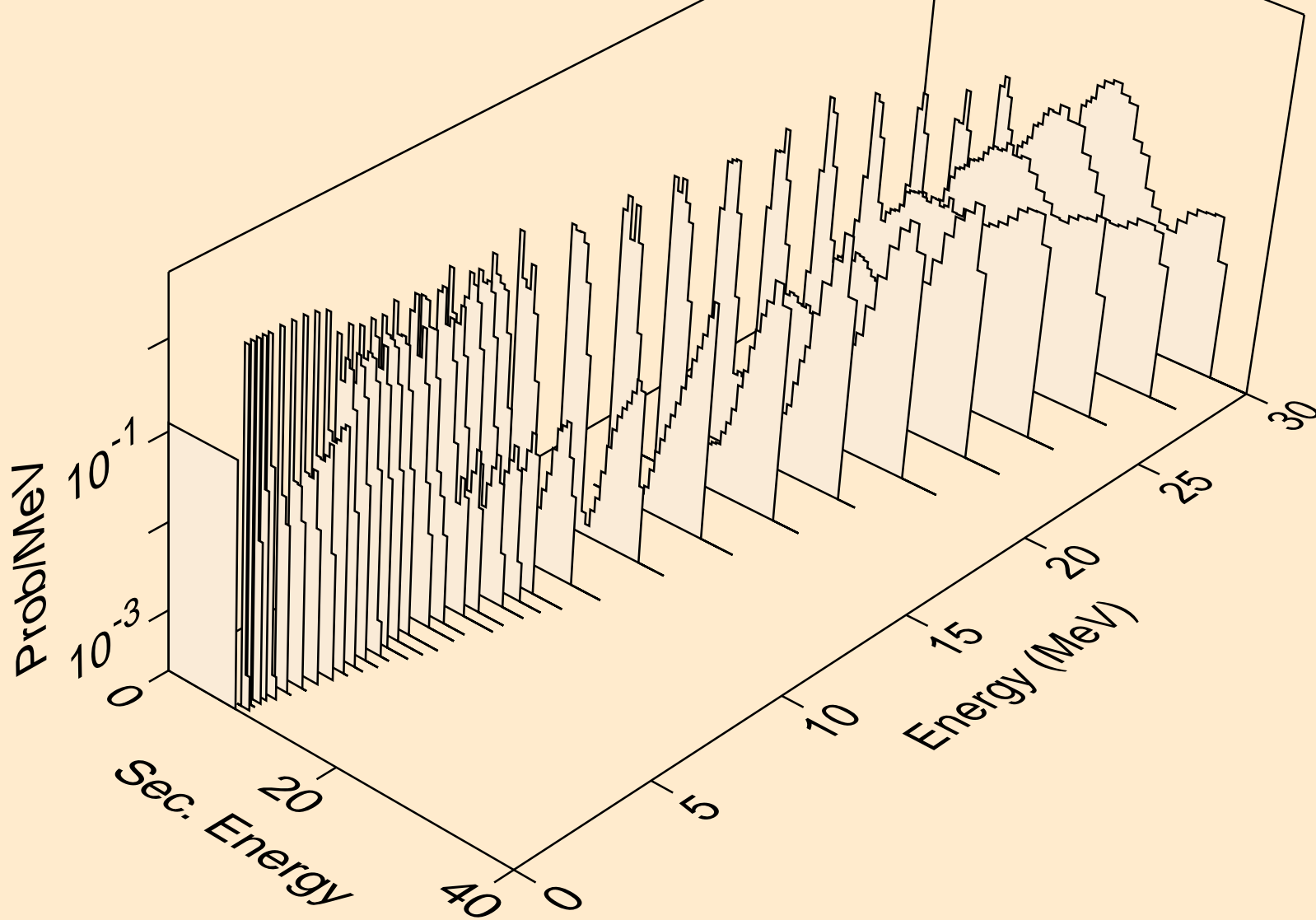
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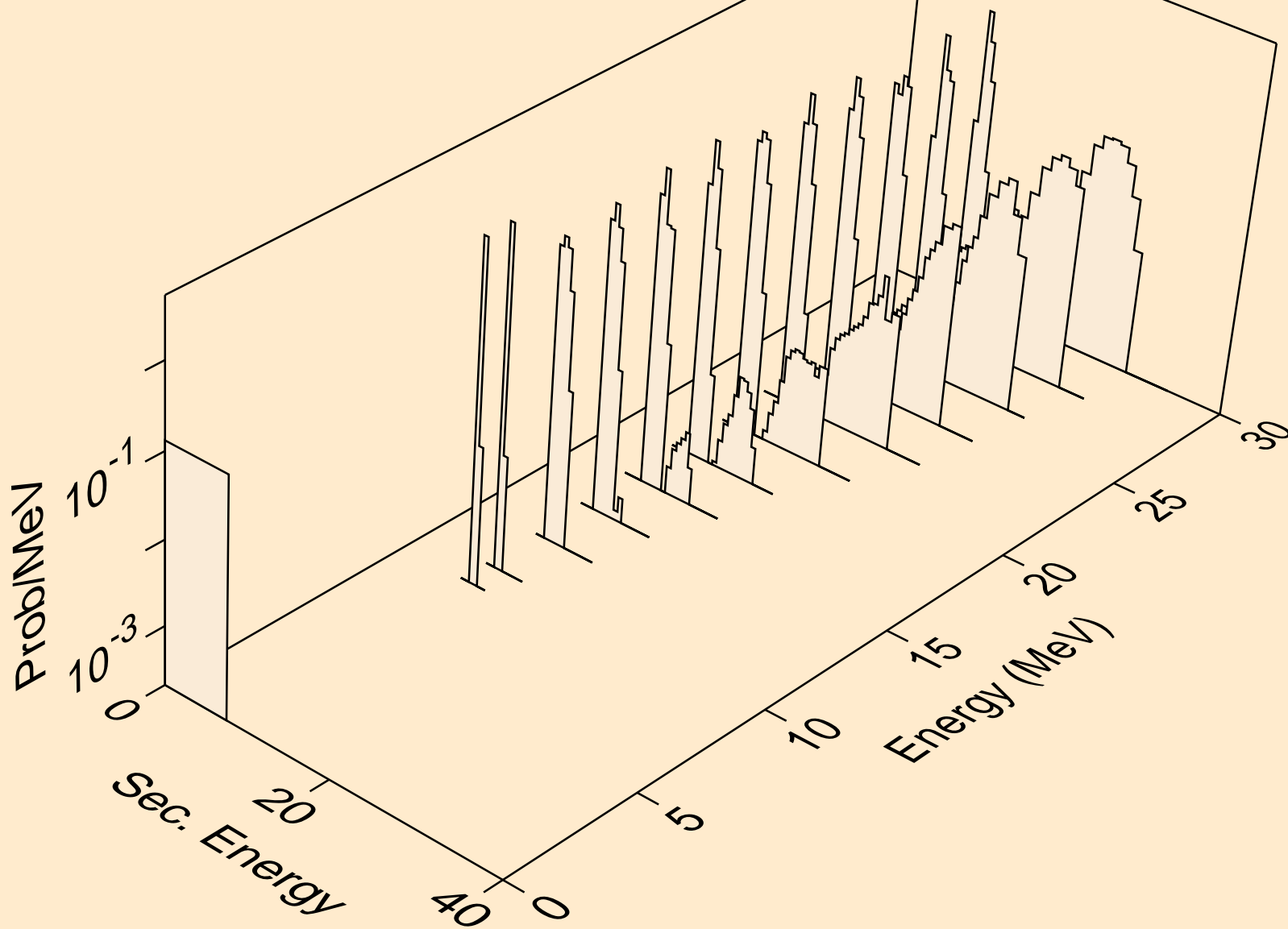
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alphas from (n,3n)a



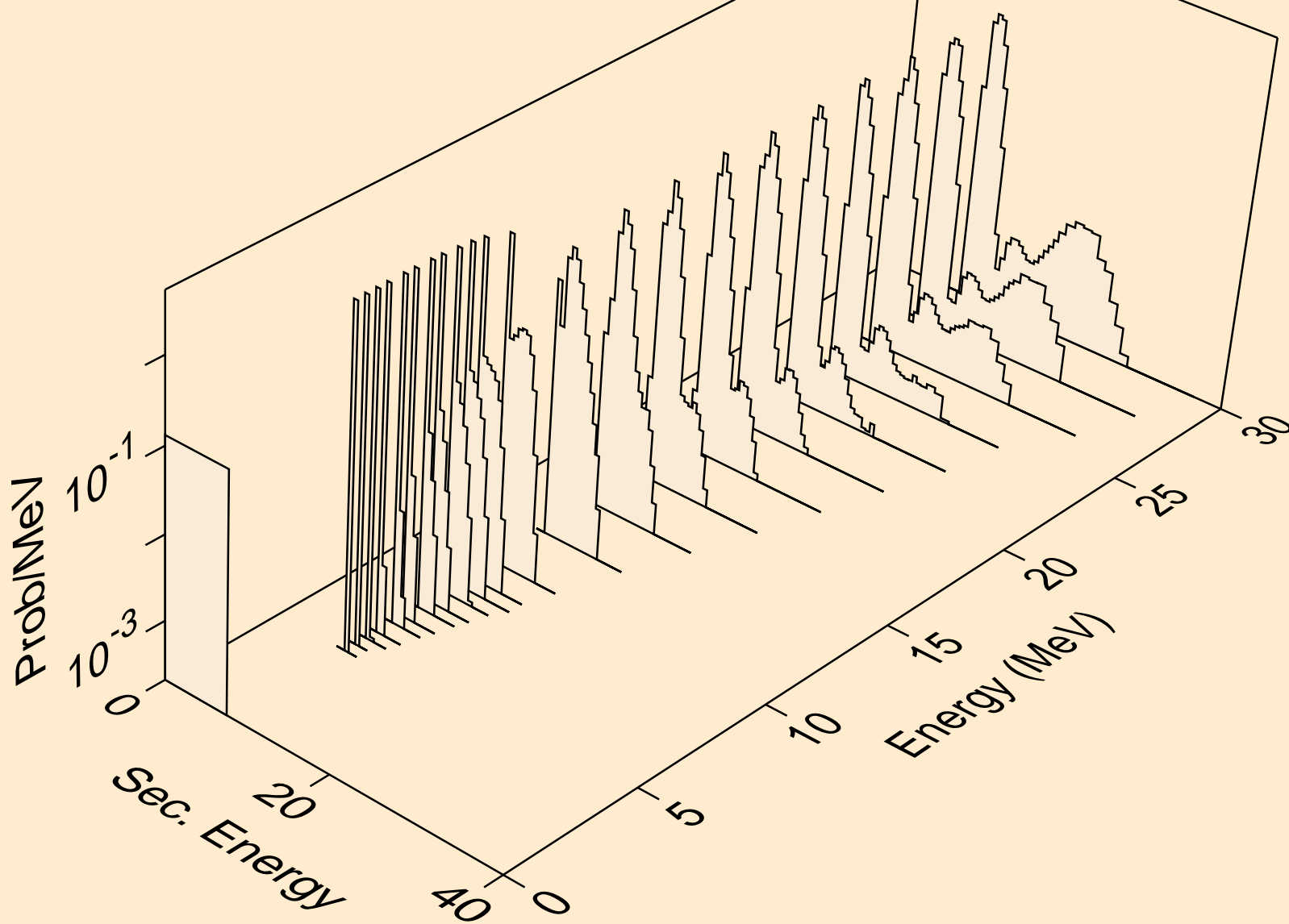
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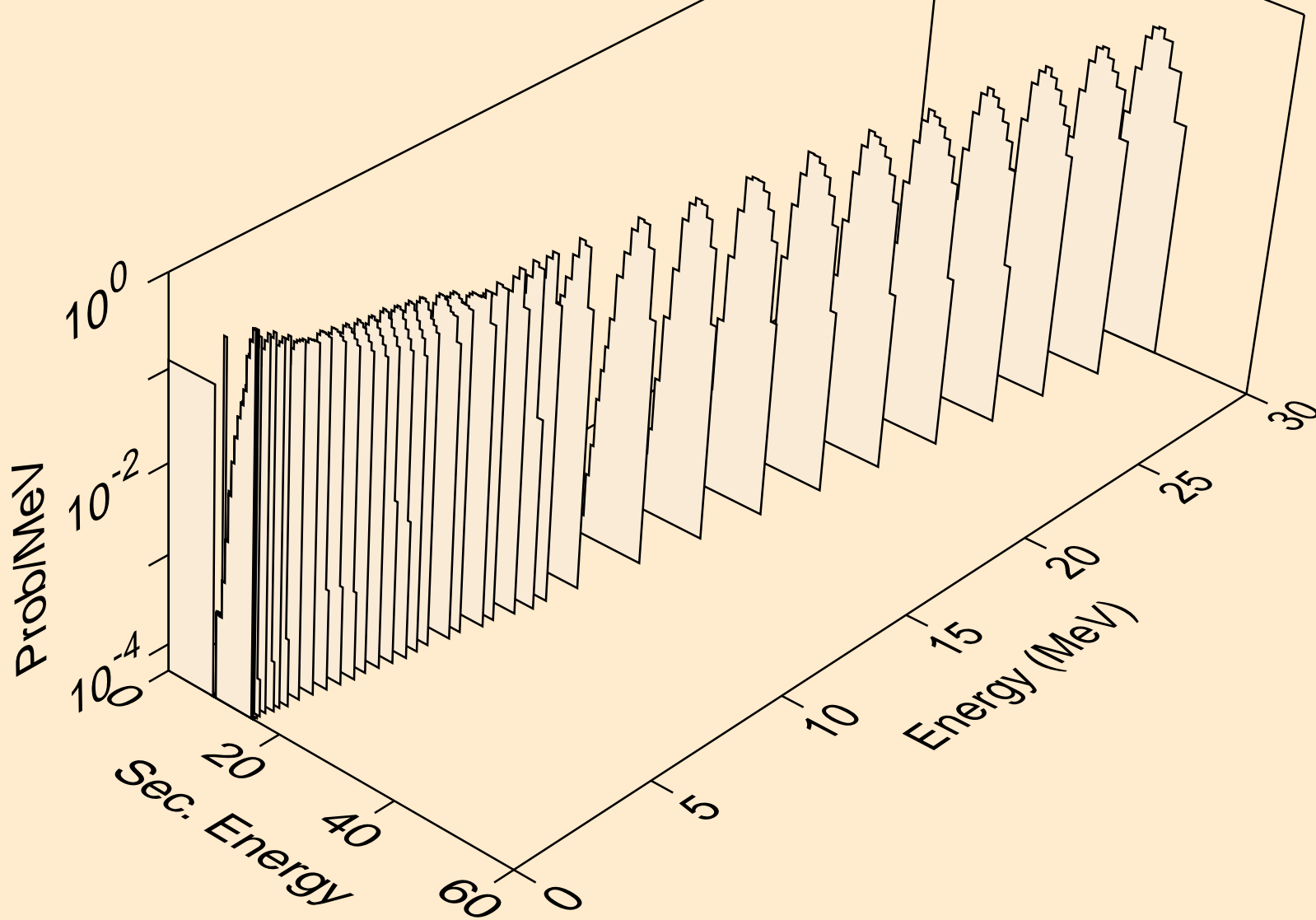
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MD247 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
alphas from (n,npa)

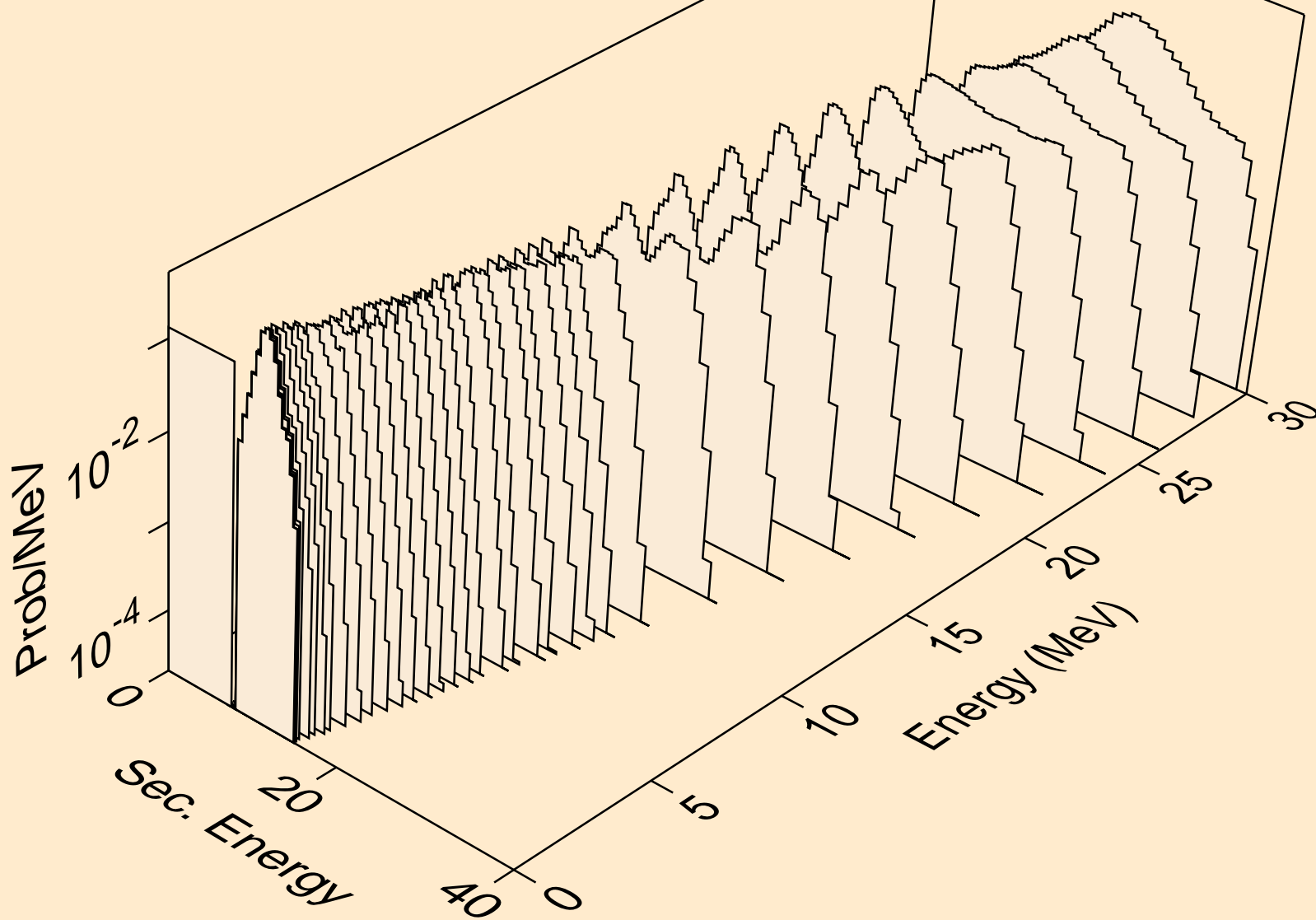


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alphas from (n,a)

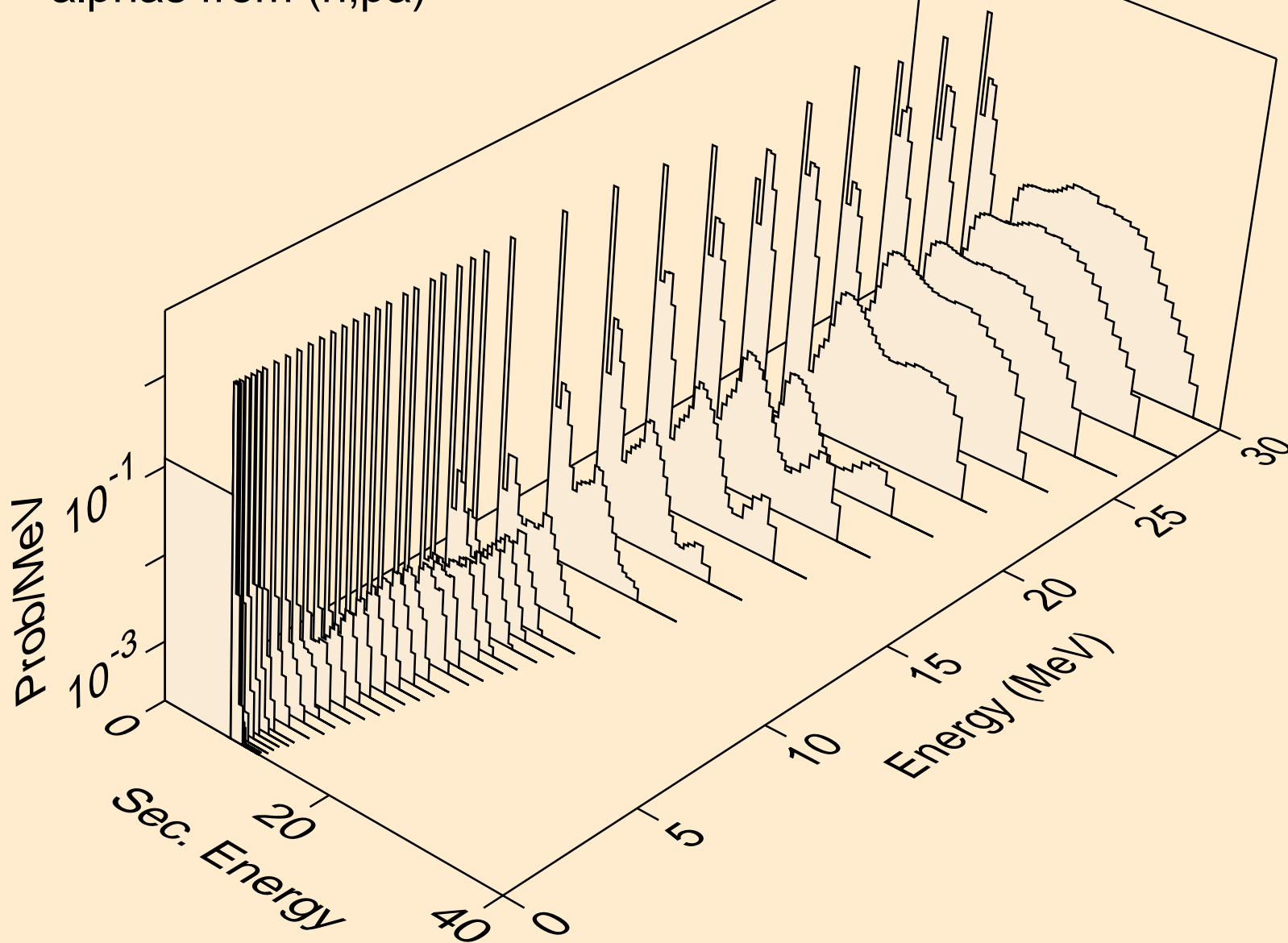




MD247 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
alphas from (n,2a)



MD247 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
alphas from (n,pa)



MD247 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
alphas from (n,da)

