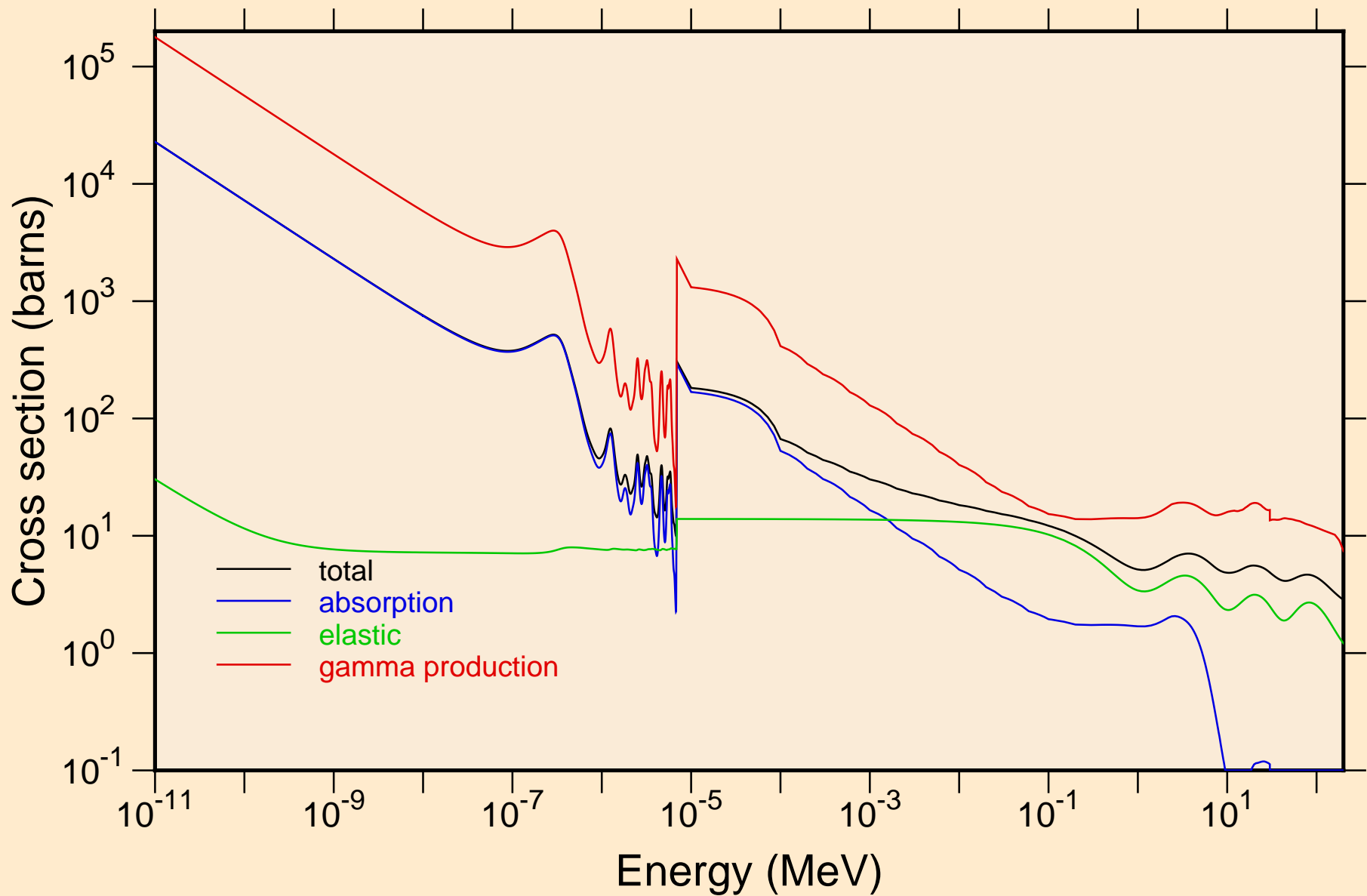


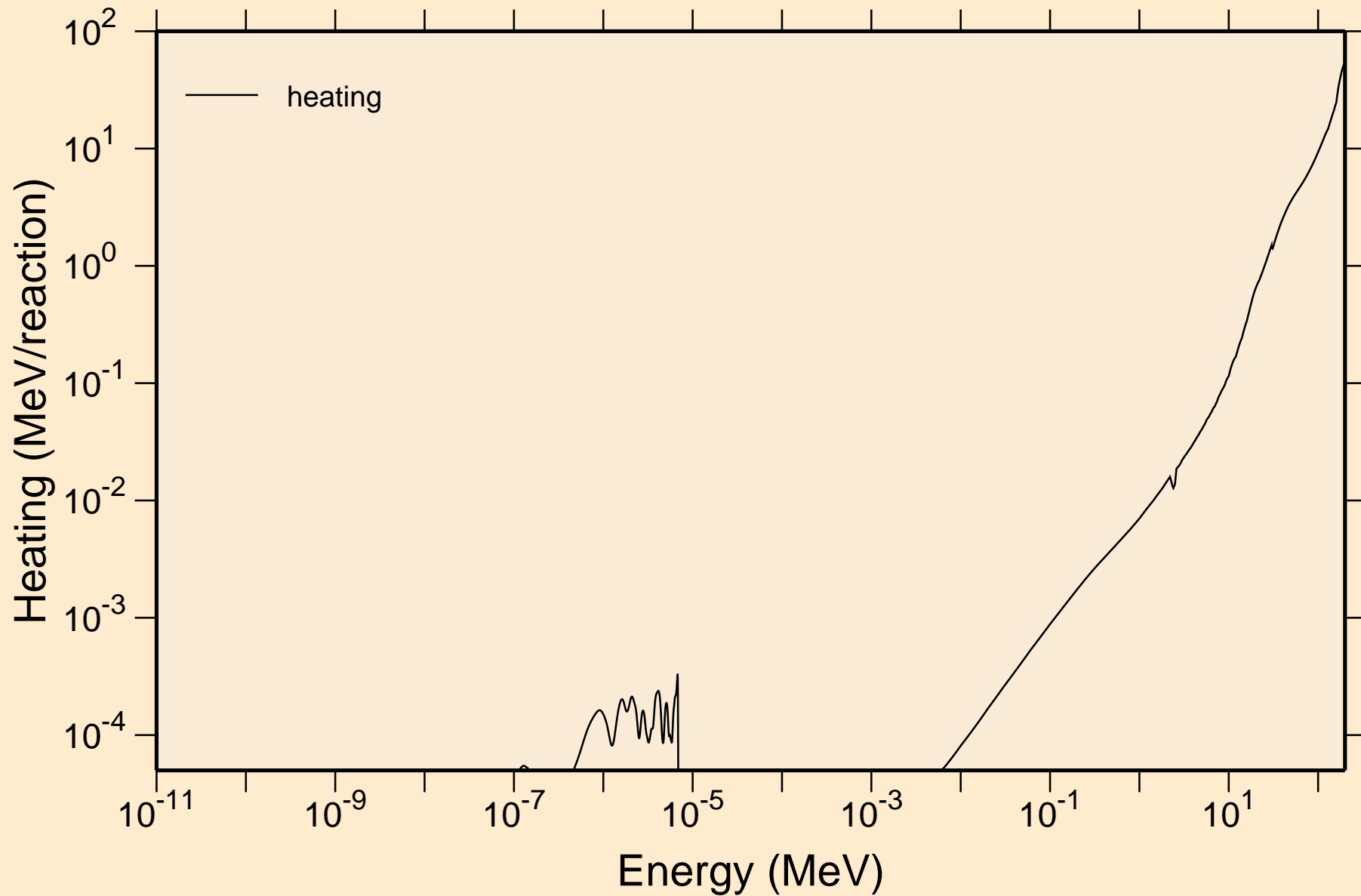
# HG191M NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K

## Principal cross sections

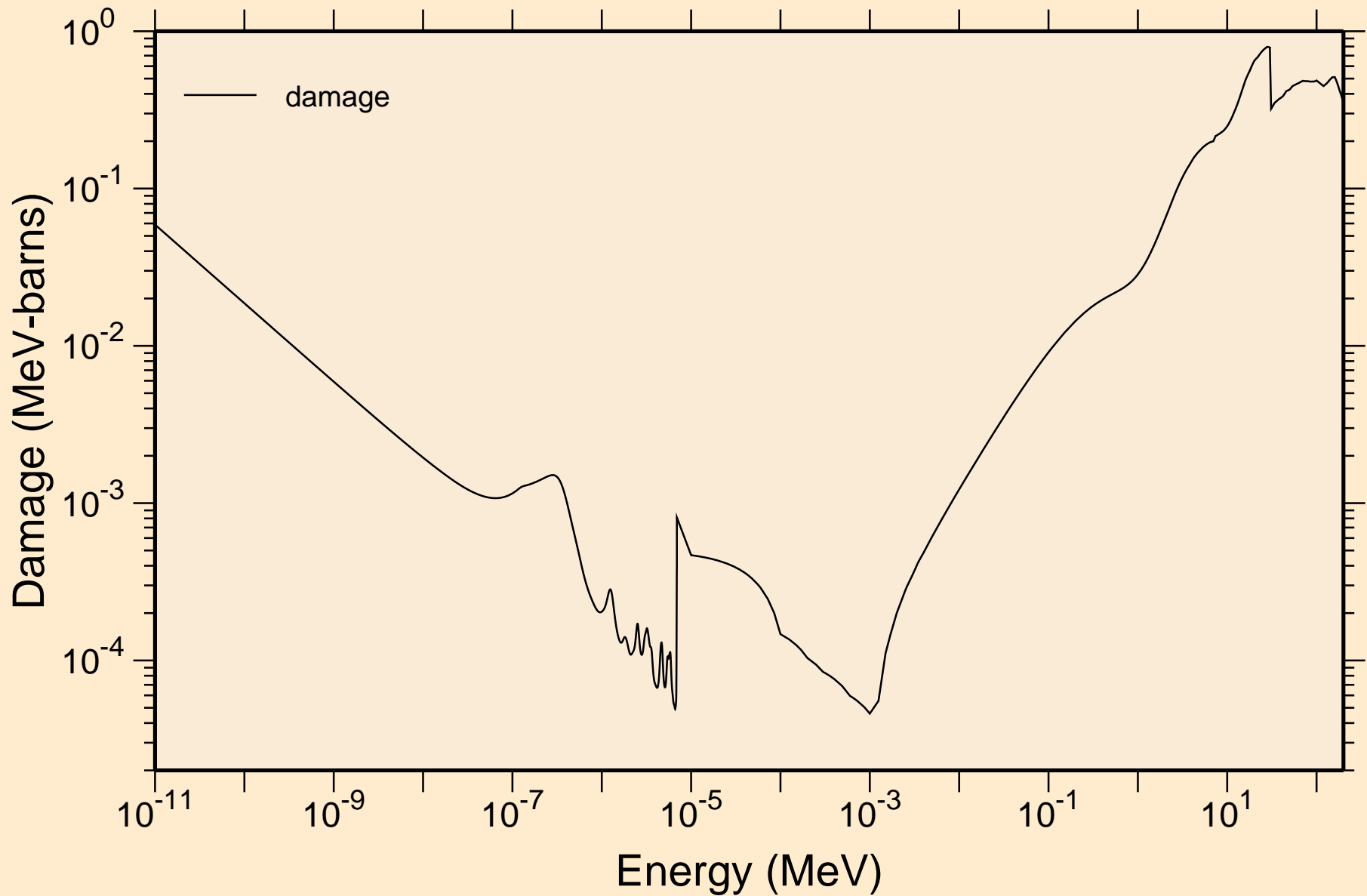


# HG191M NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K

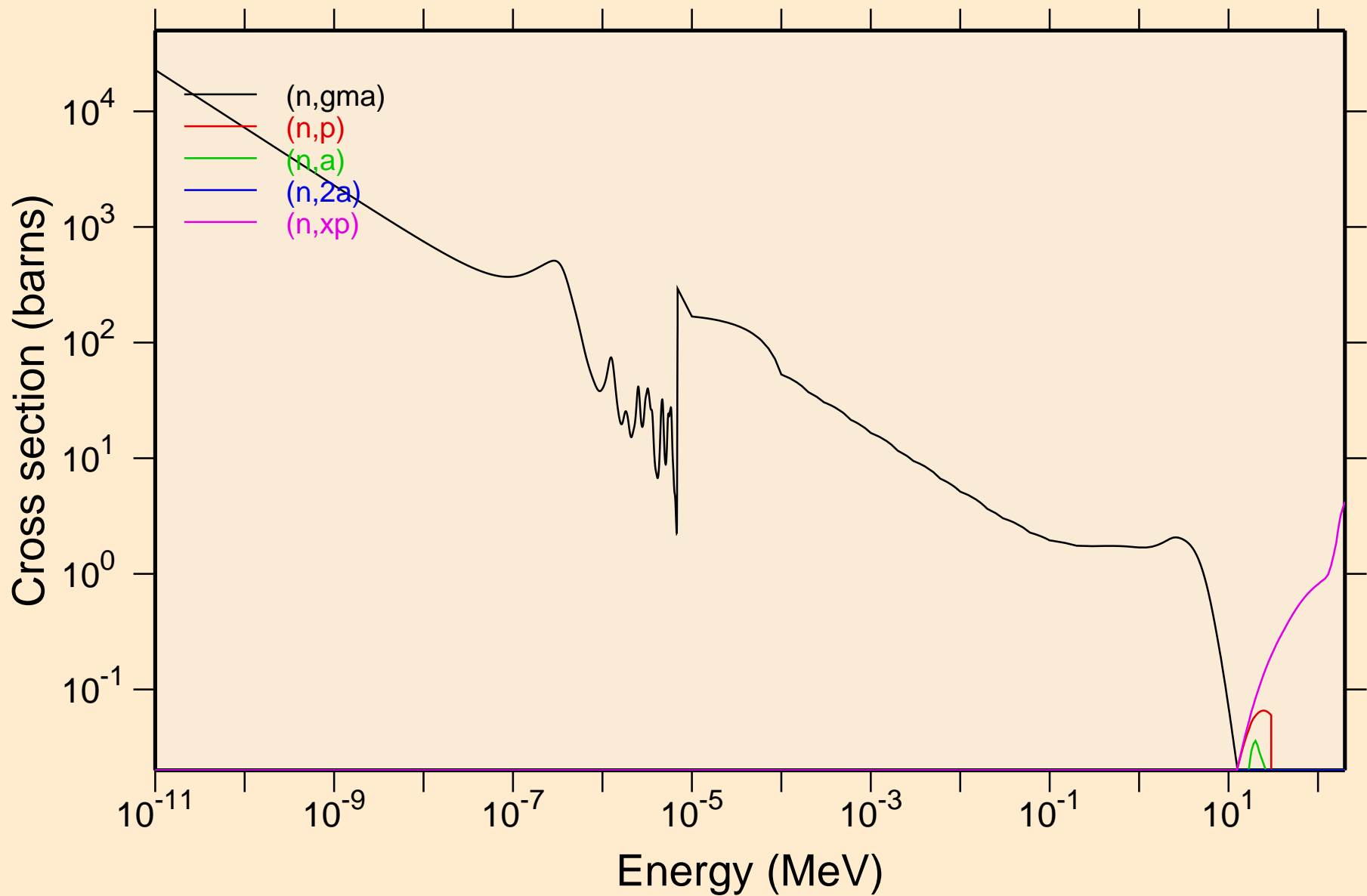
## Heating



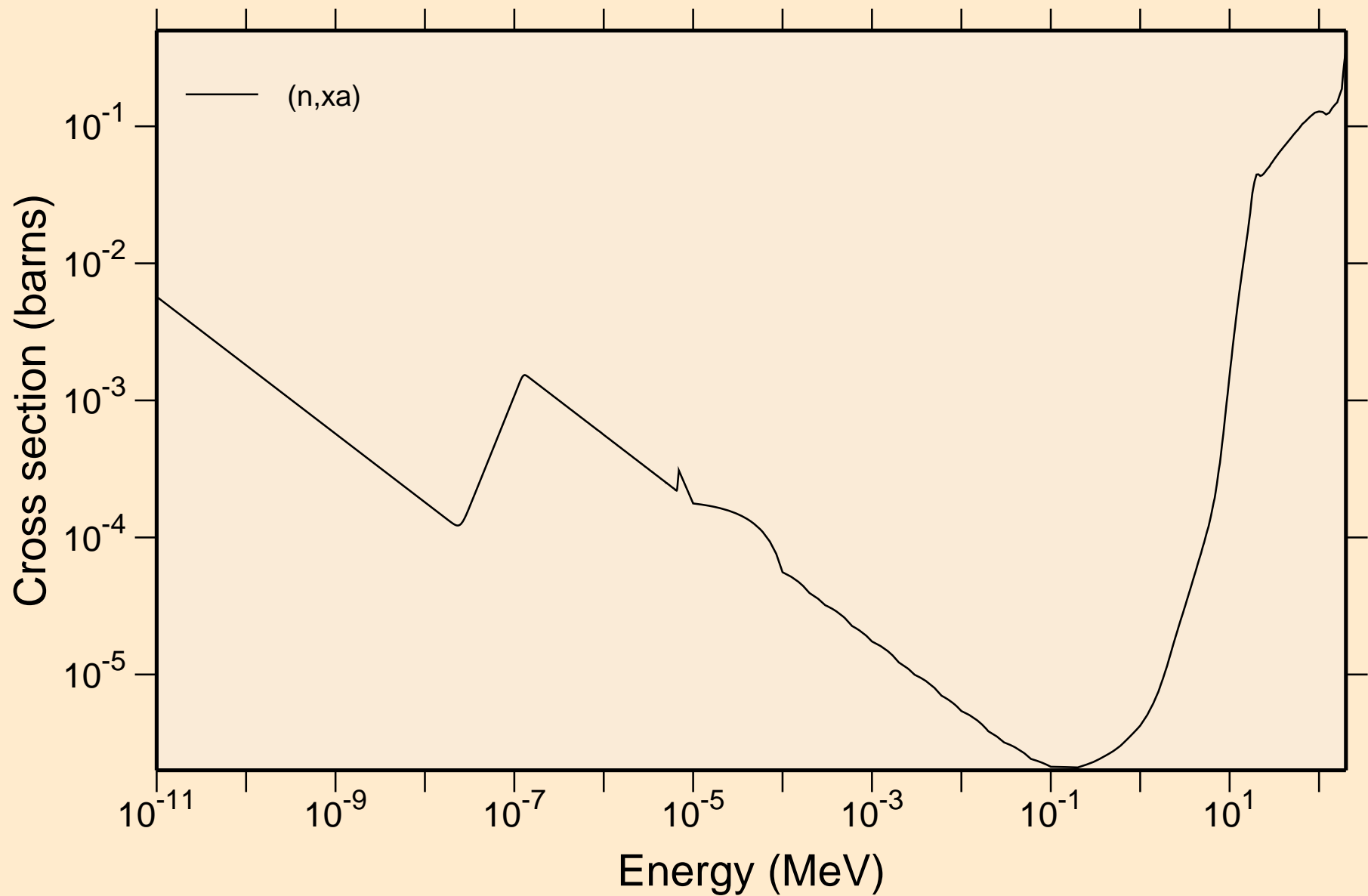
# HG191M NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K Damage



HG191M NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Non-threshold reactions

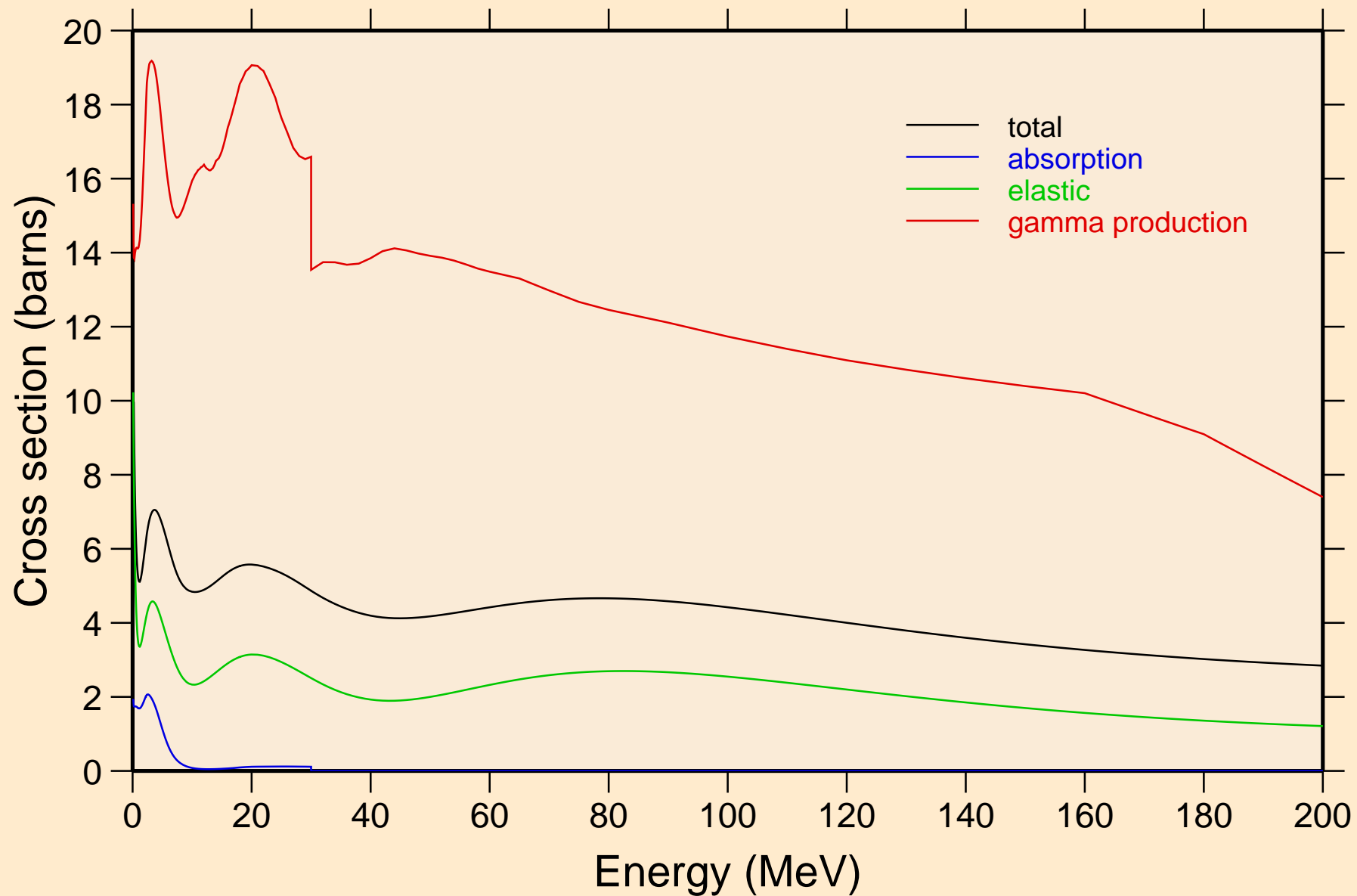


HG191M NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Non-threshold reactions

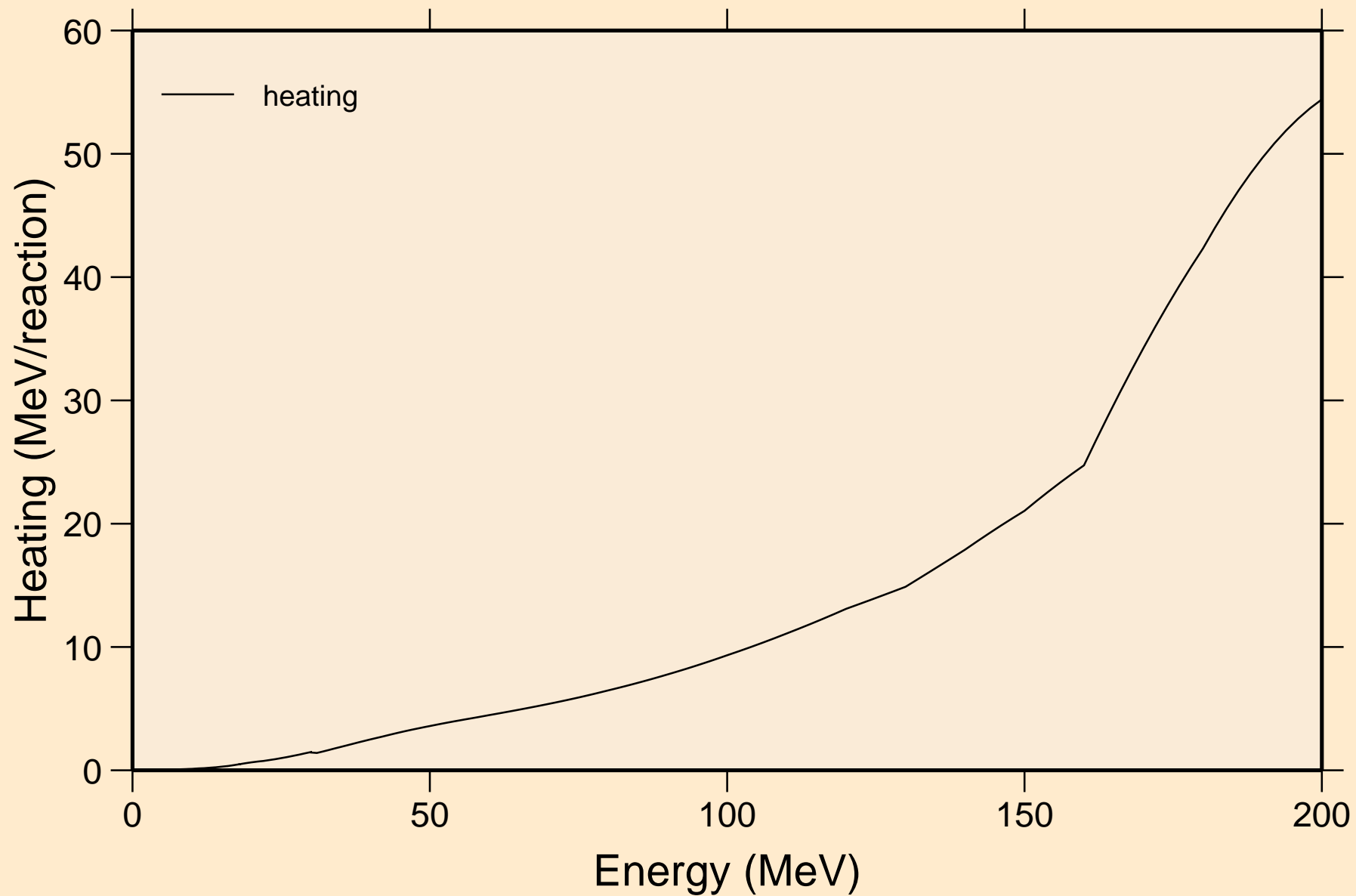


# HG191M NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K

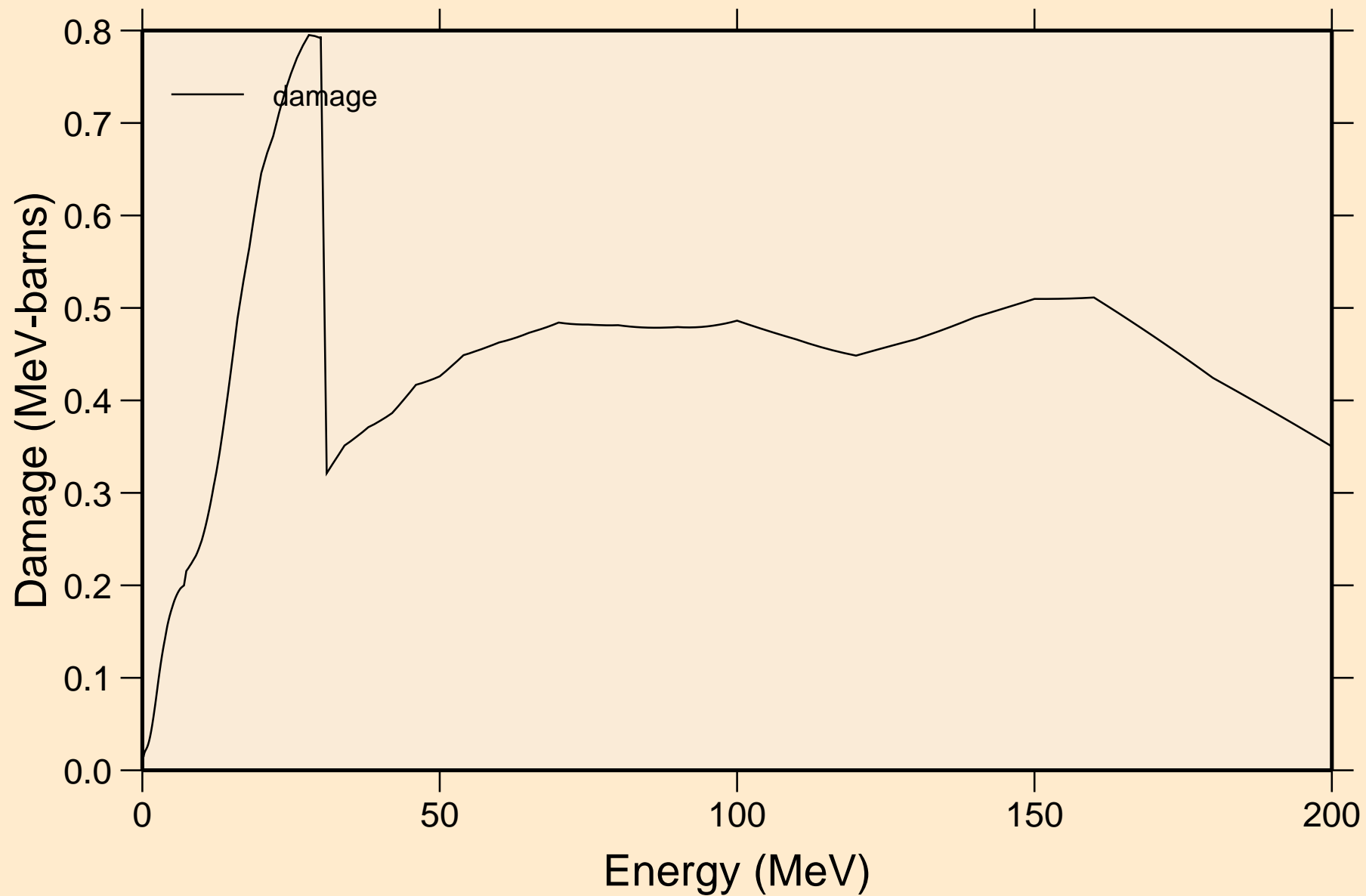
## Principal cross sections



HG191M NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Heating

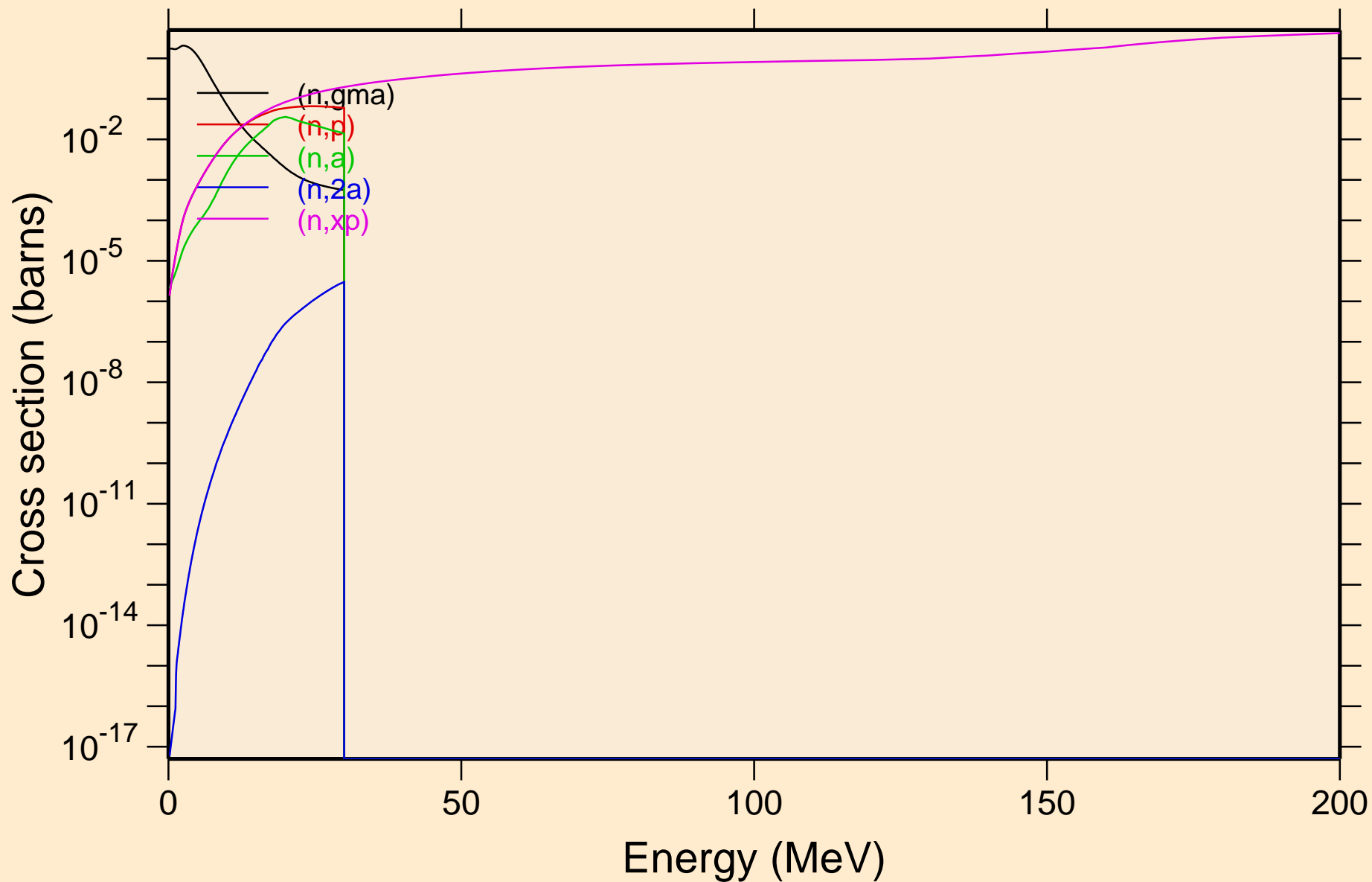


HG191M NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Damage

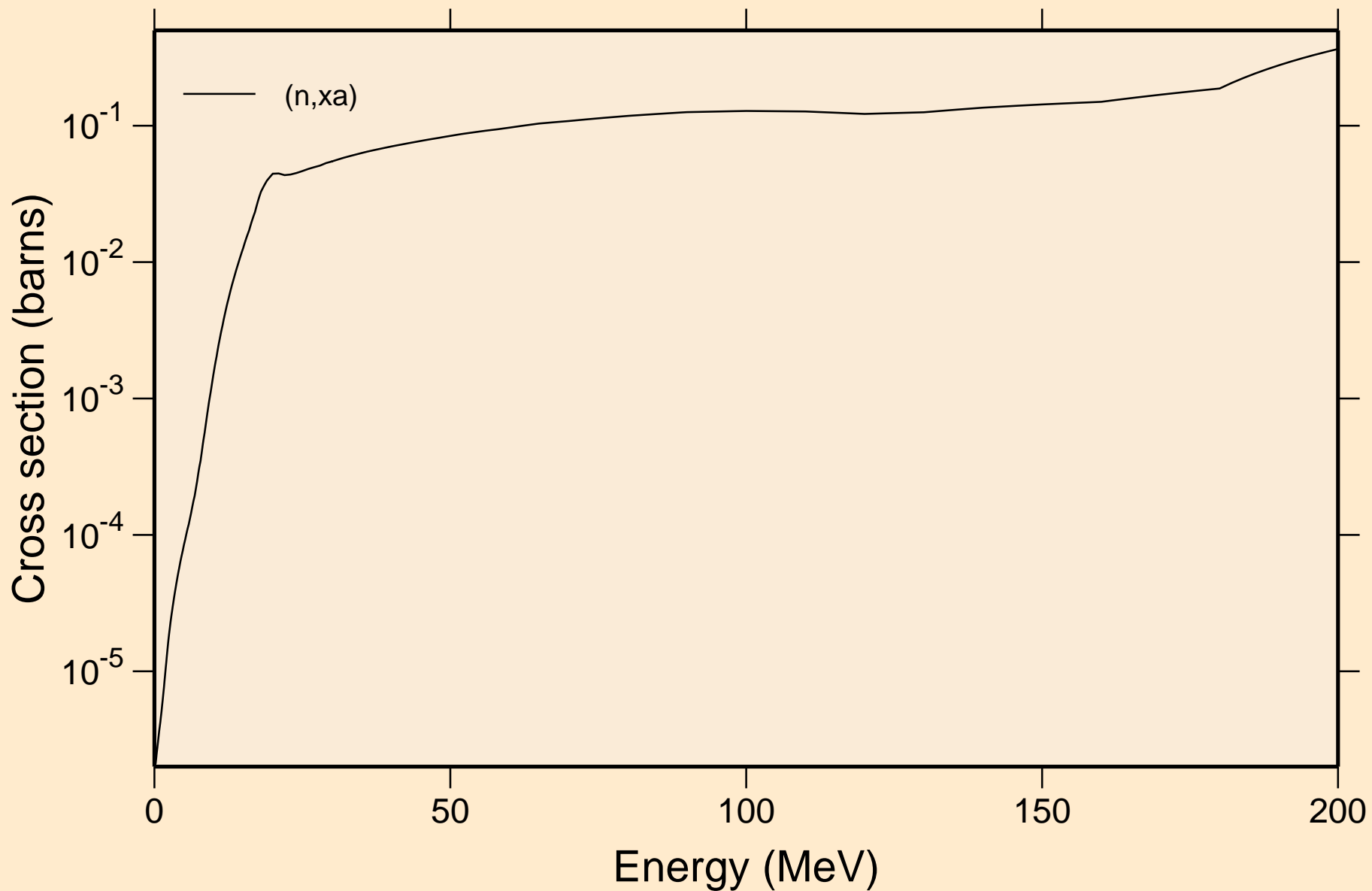




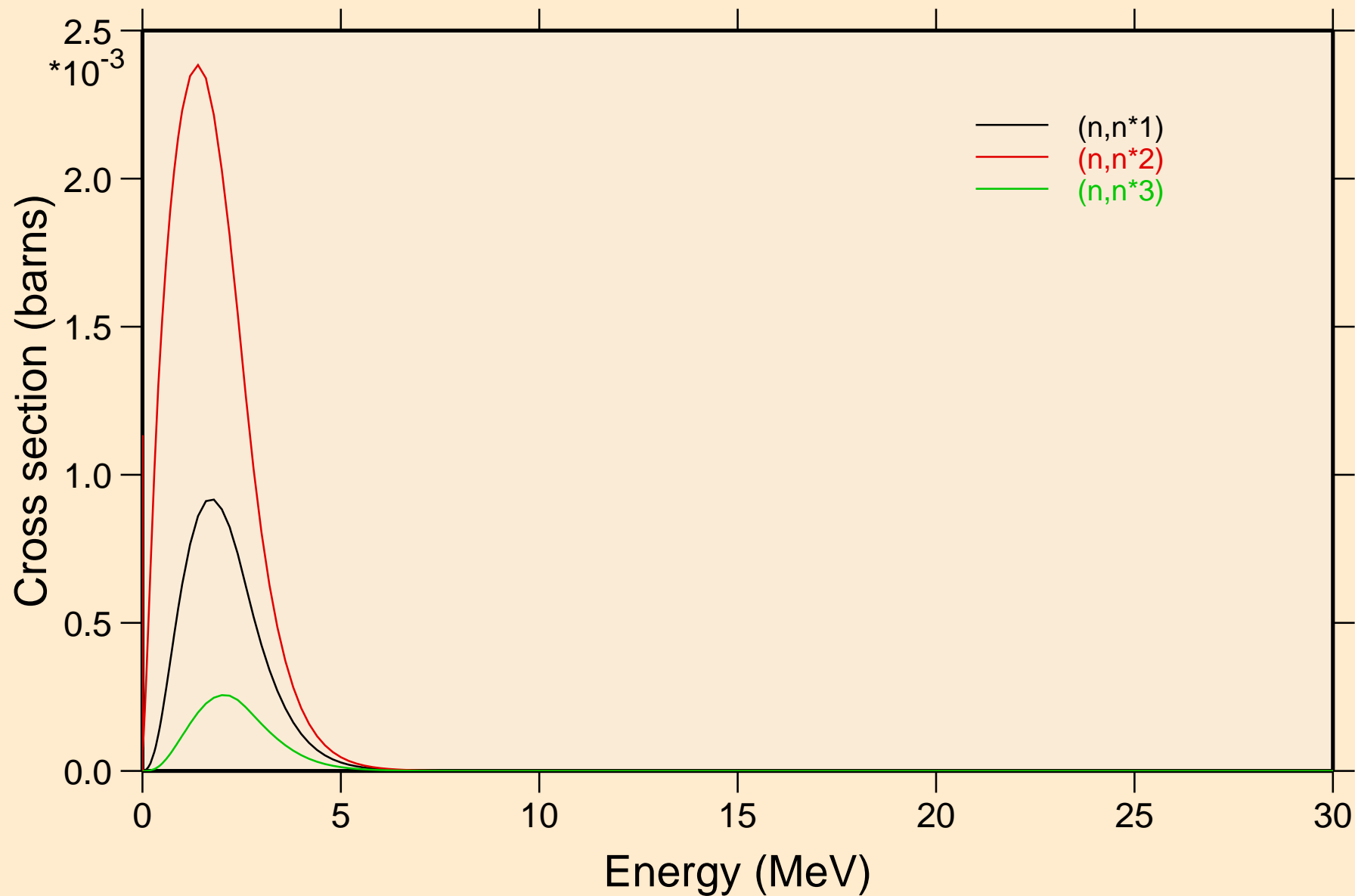
HG191M NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Non-threshold reactions



HG191M NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Non-threshold reactions

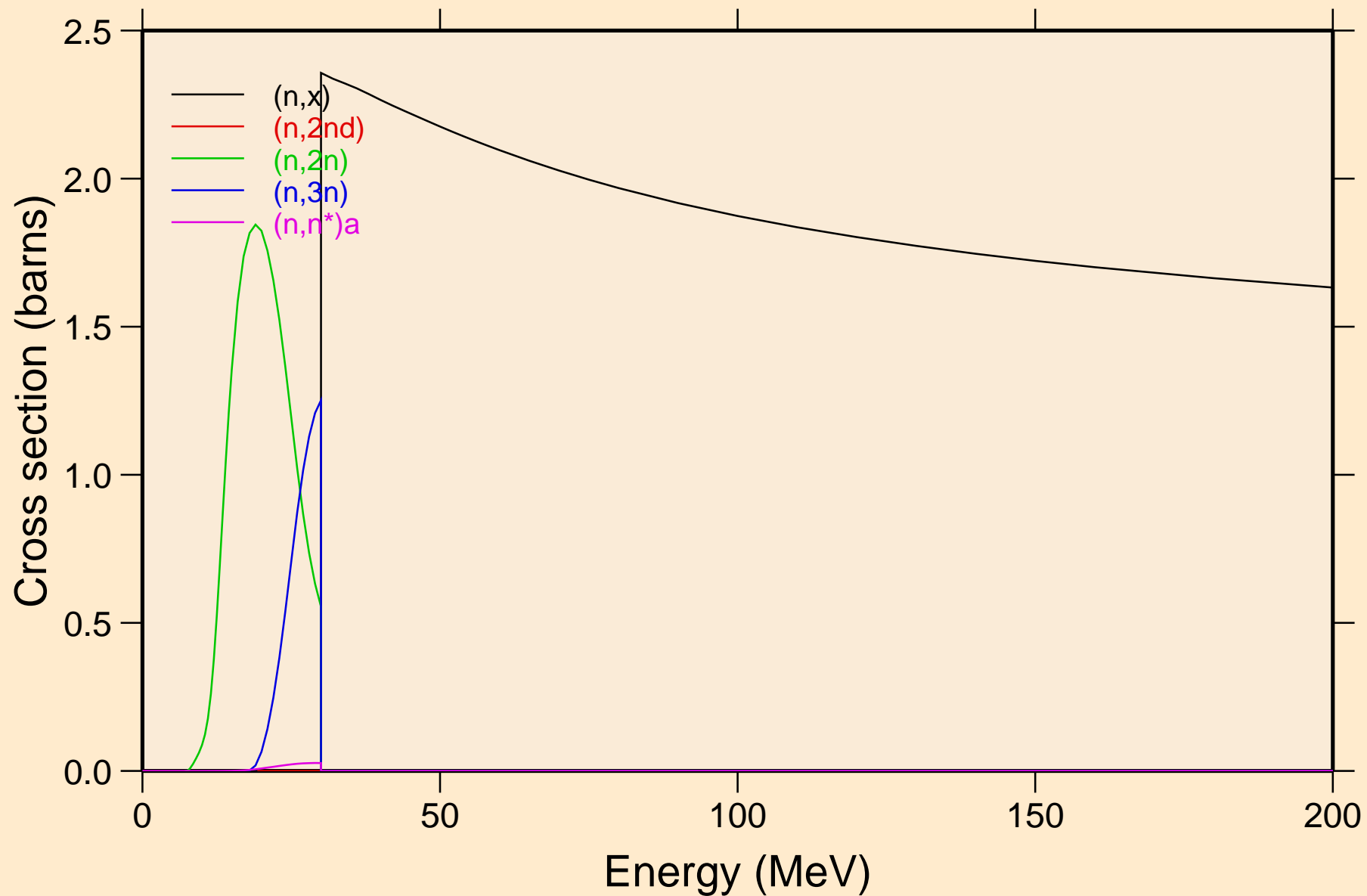


HG191M NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Inelastic levels



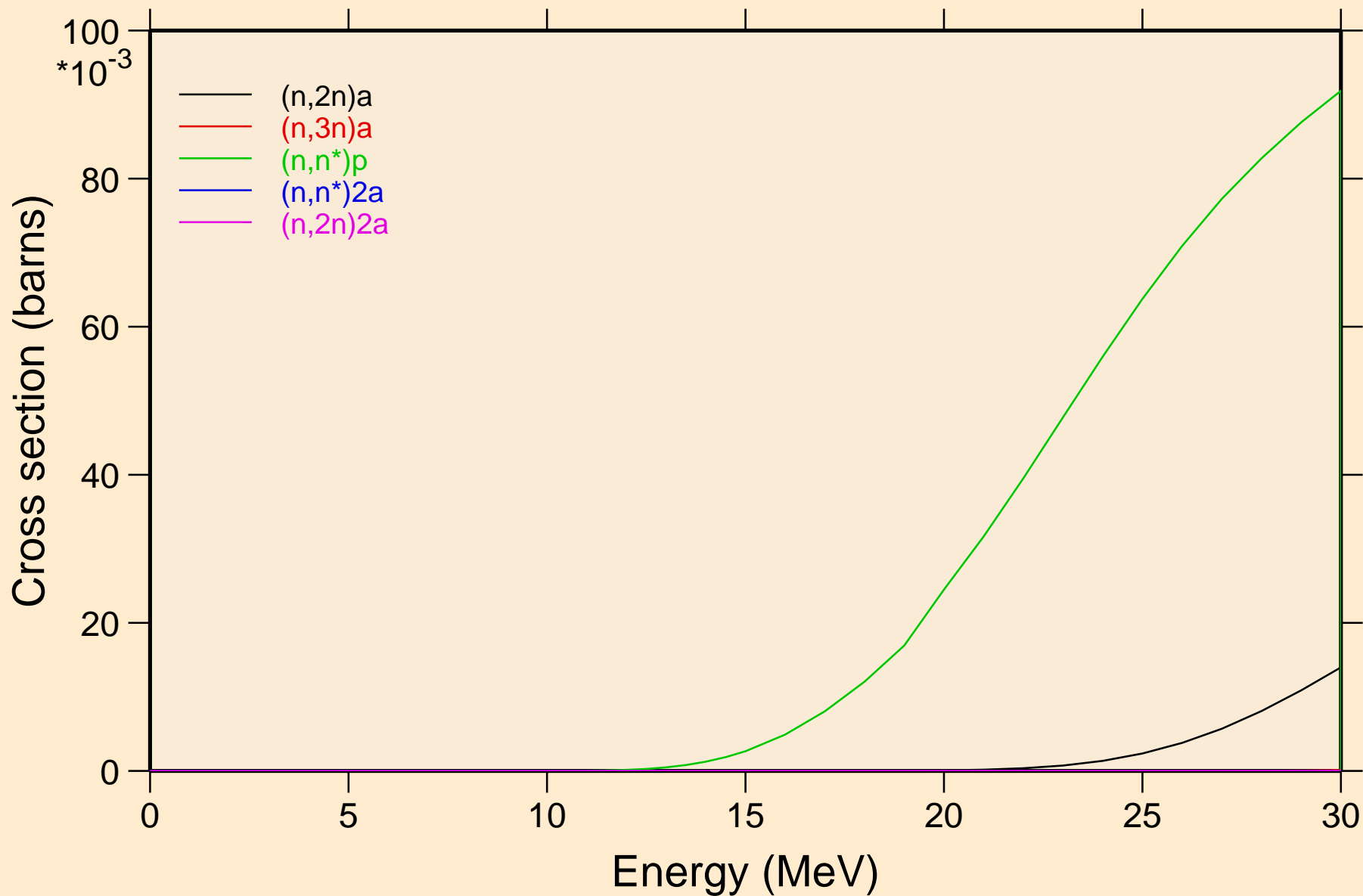
# HG191M NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K

## Threshold reactions



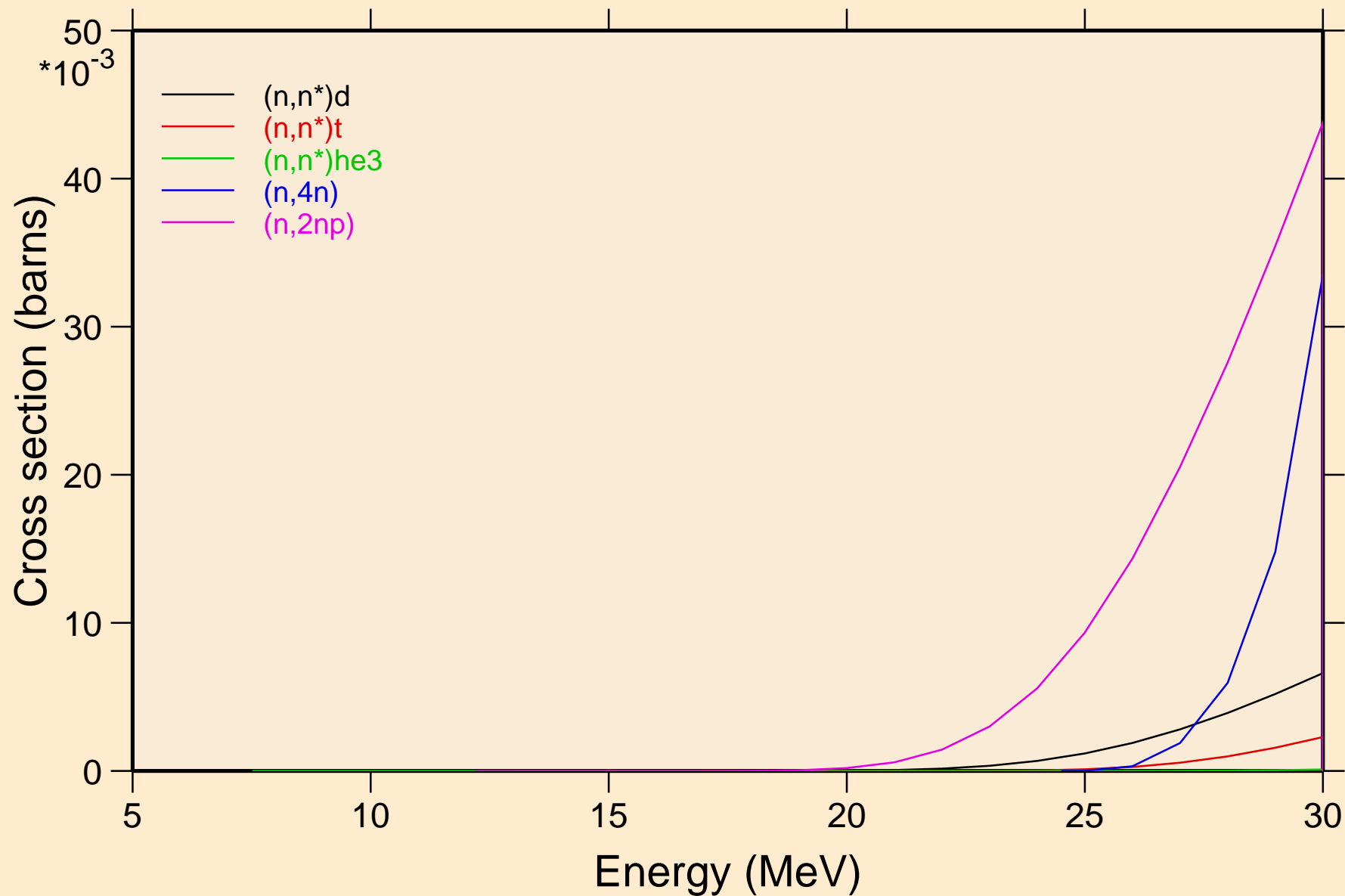
# HG191M NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K

## Threshold reactions

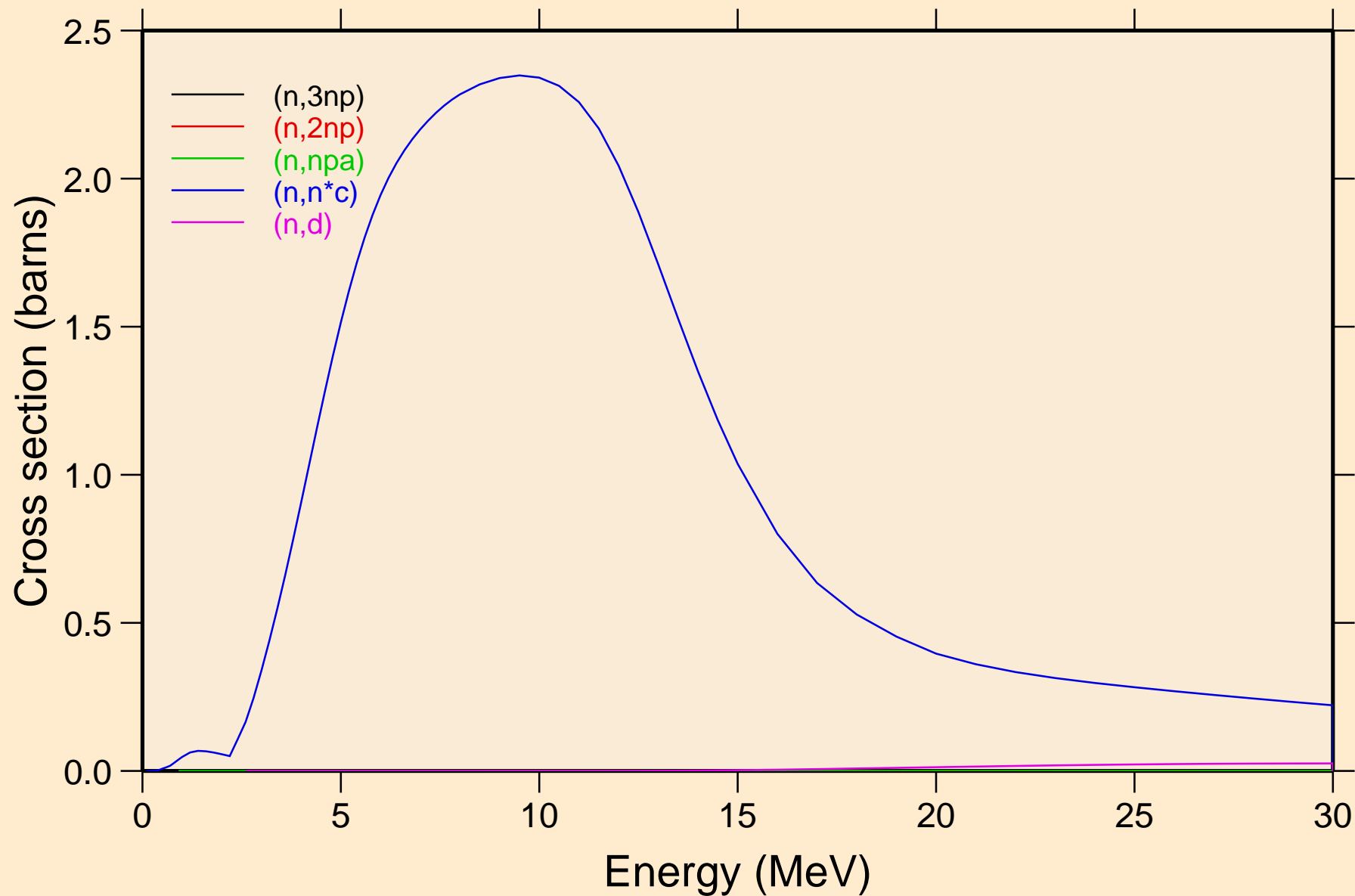


# HG191M NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K

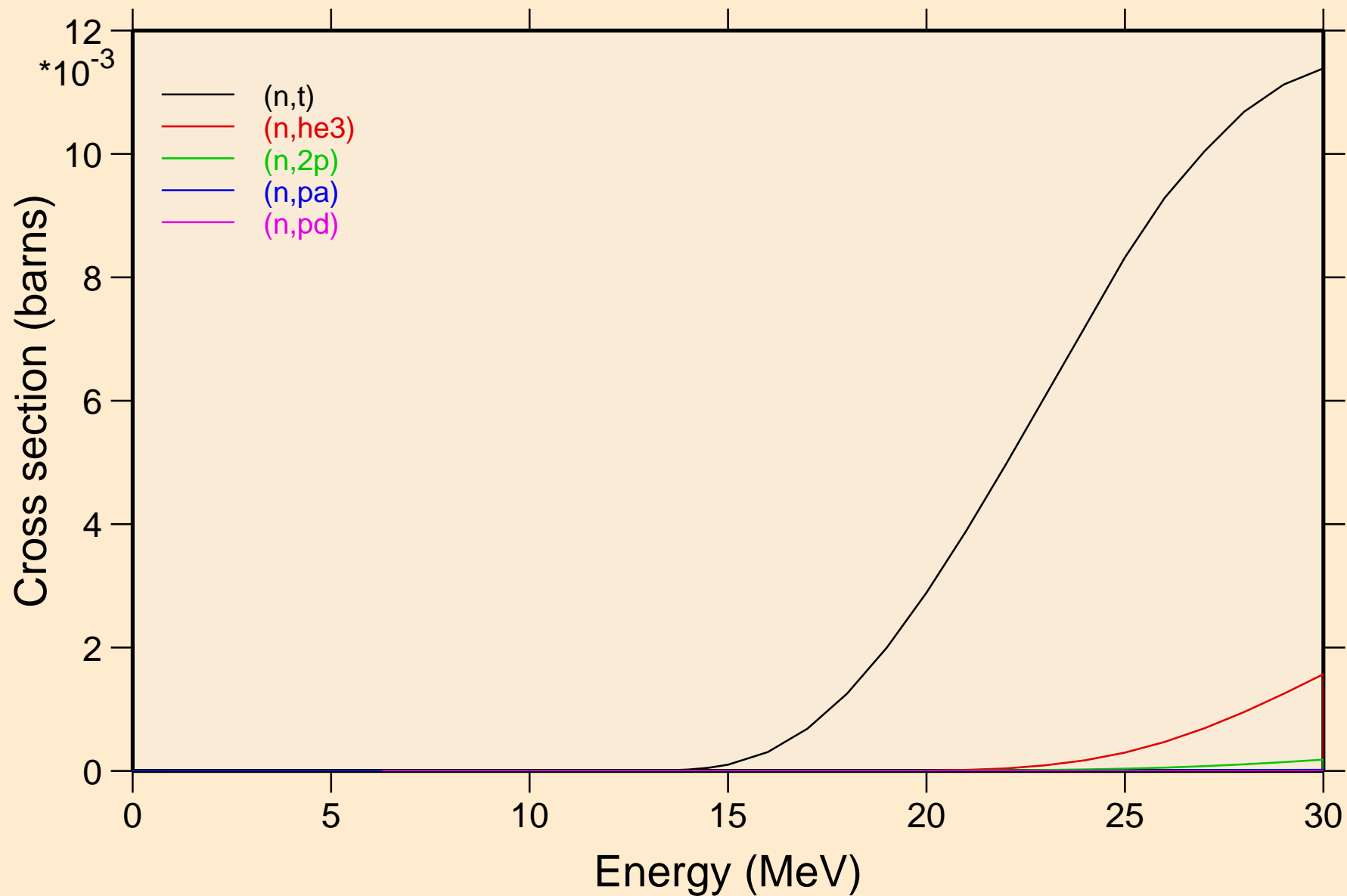
## Threshold reactions



HG191M NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Threshold reactions

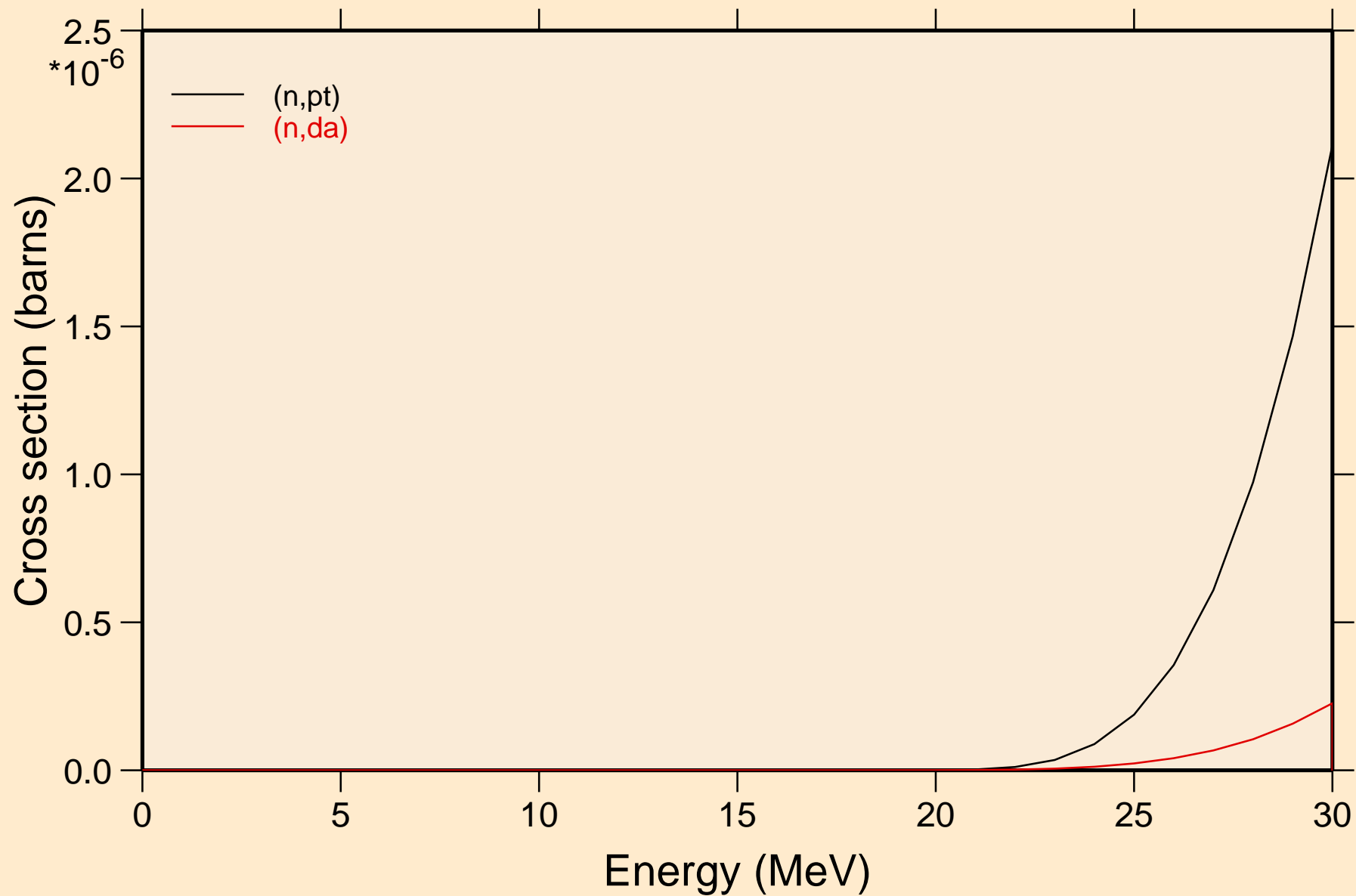


HG191M NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Threshold reactions



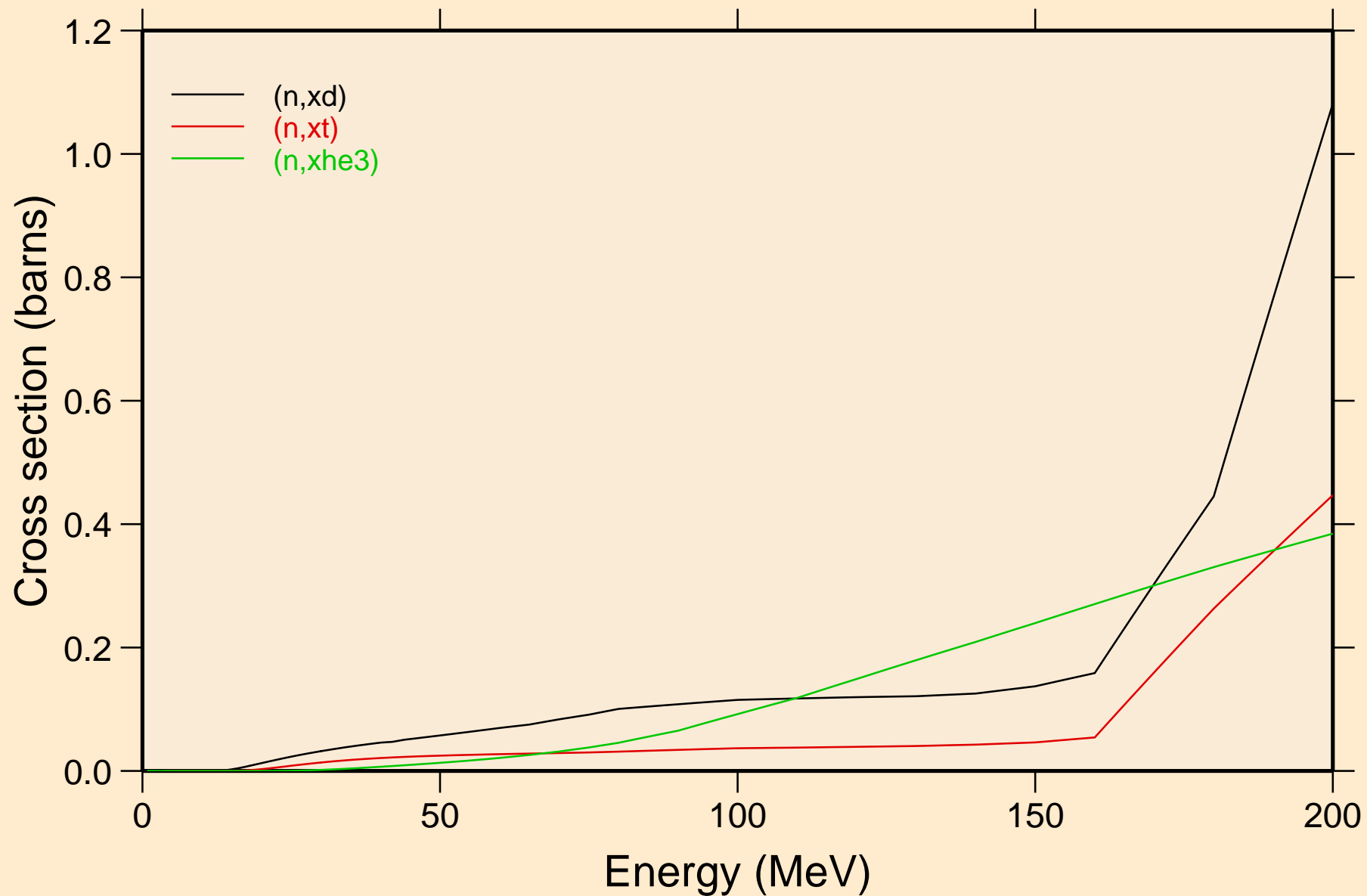


HG191M NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Threshold reactions

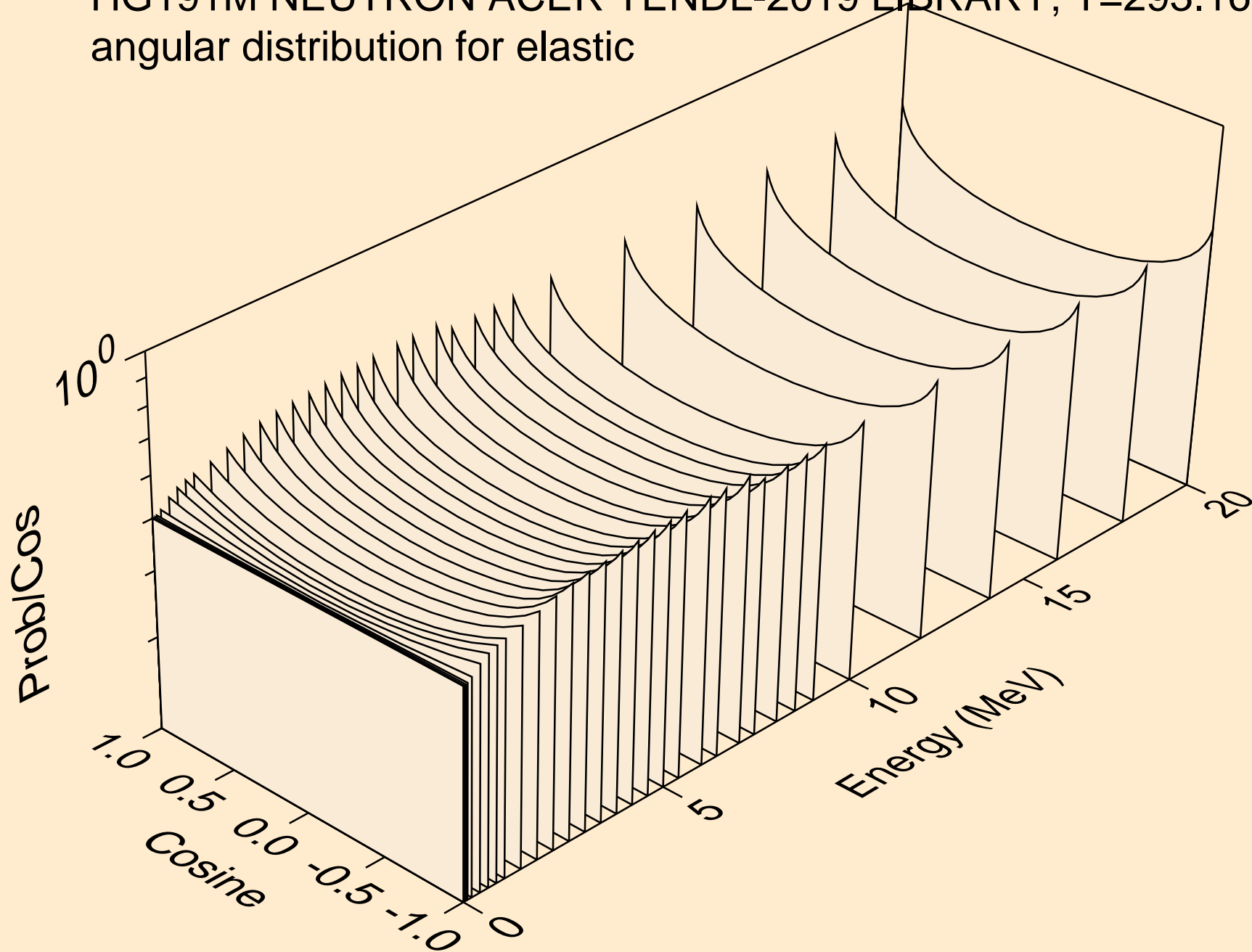


# HG191M NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K

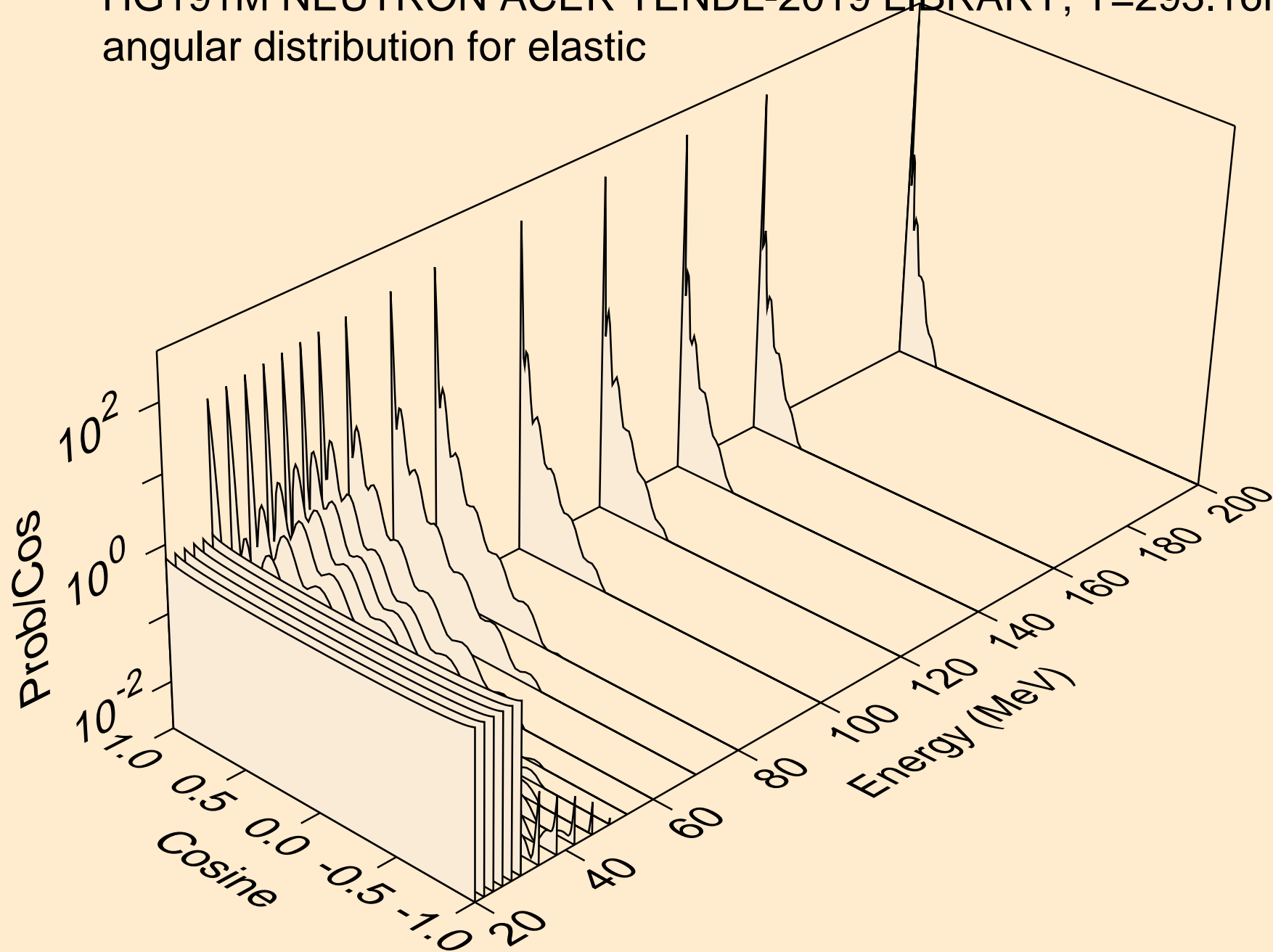
## Threshold reactions



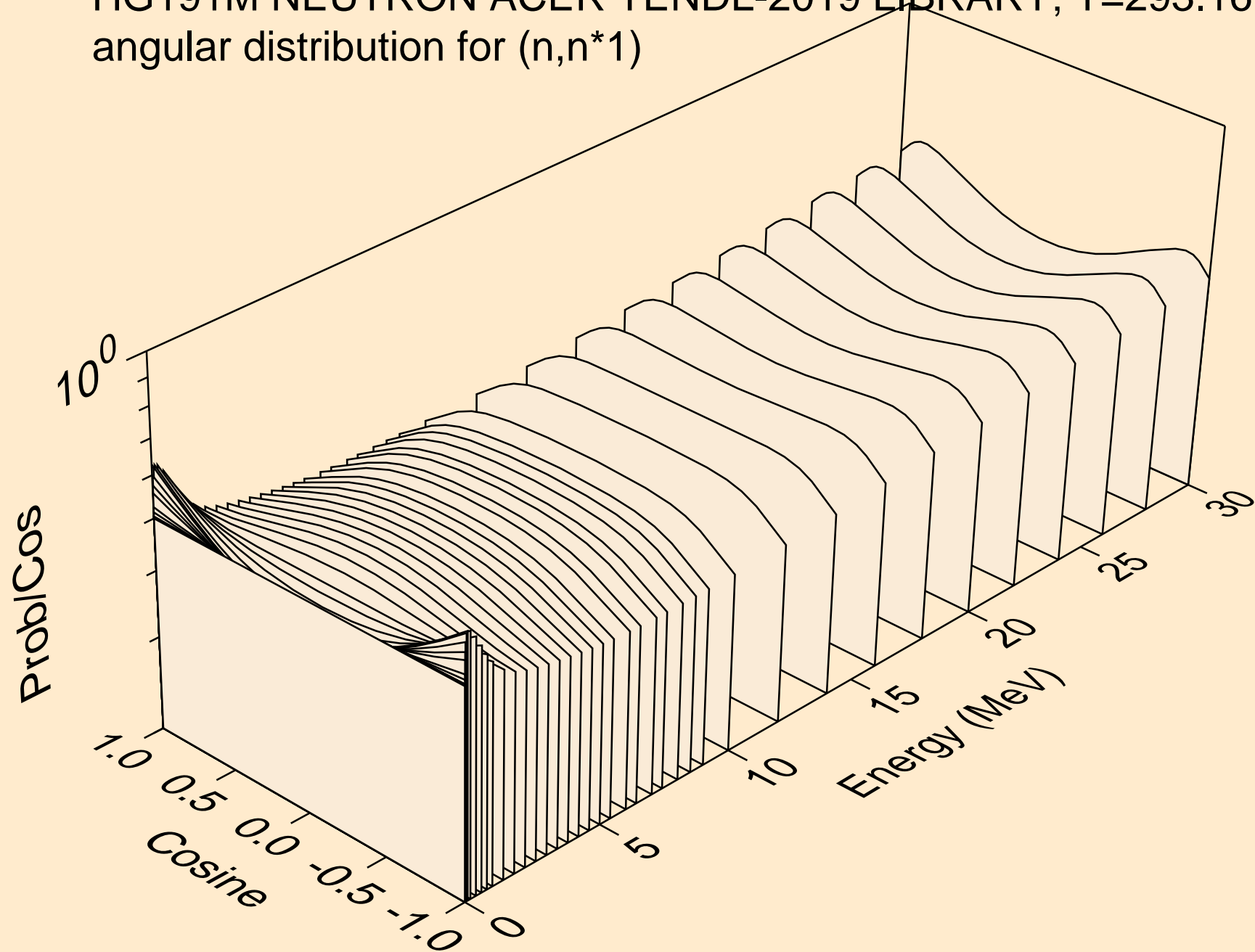
HG191M NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for elastic



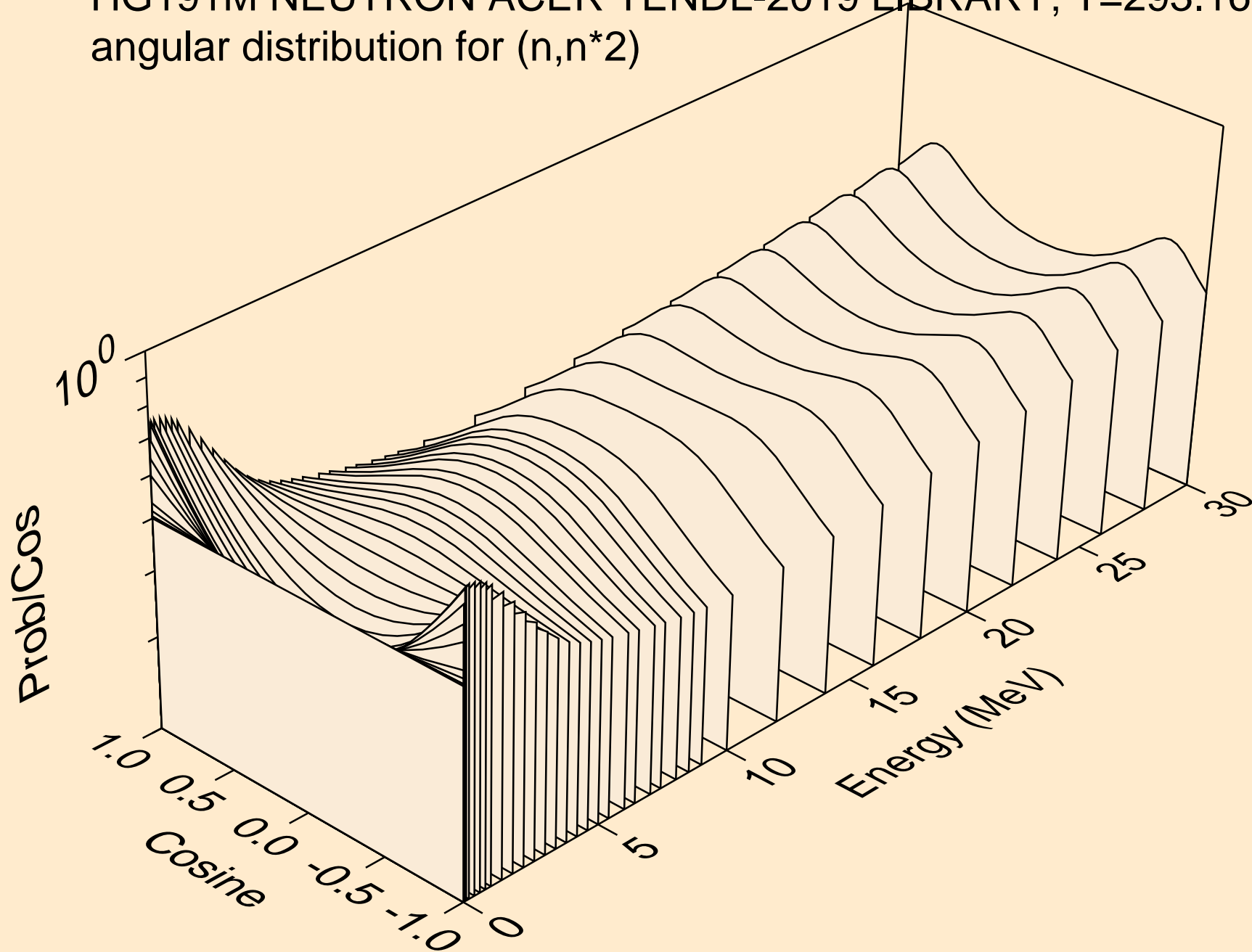
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angular distribution for elastic



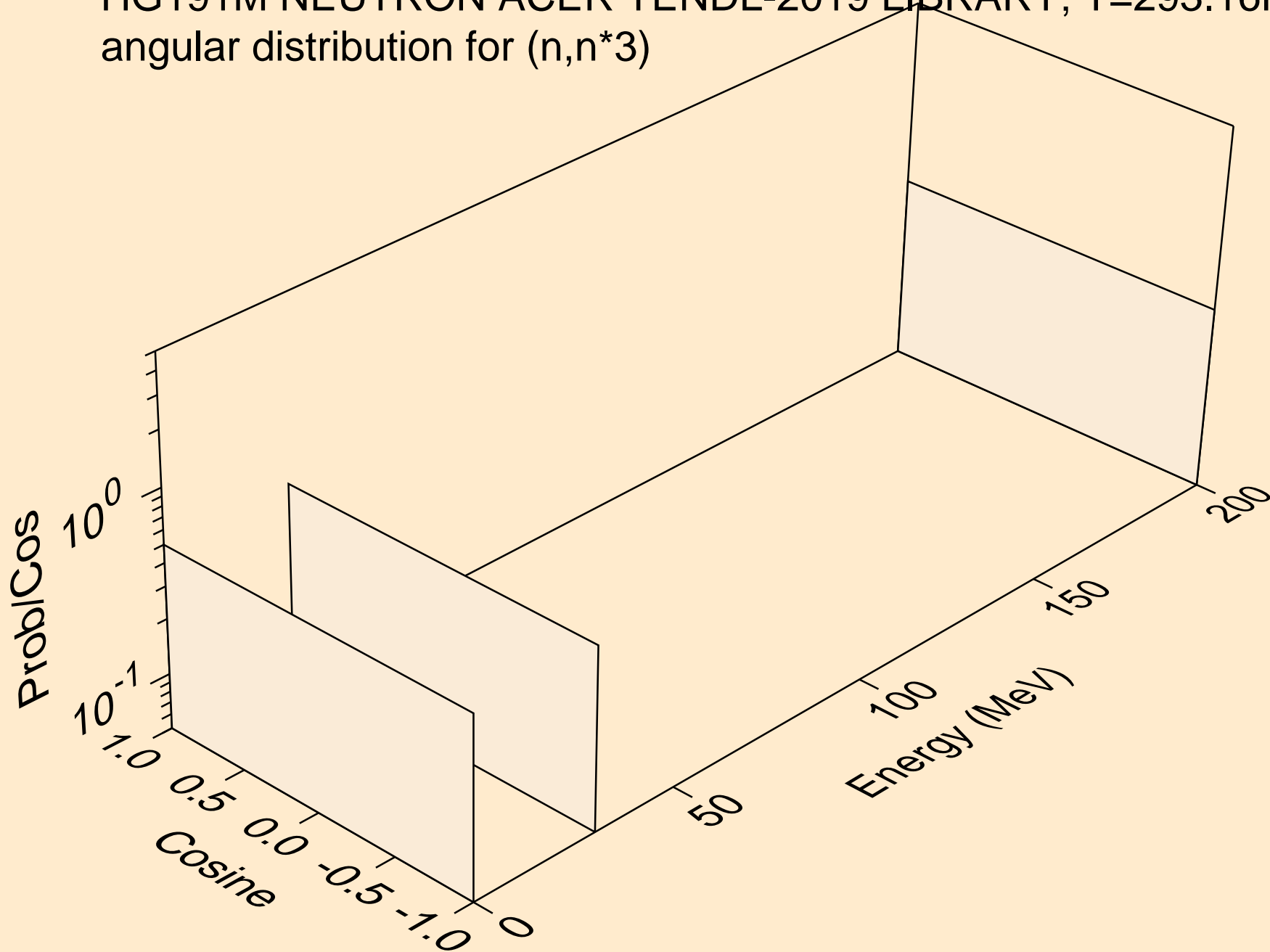
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angular distribution for (n,n\*1)



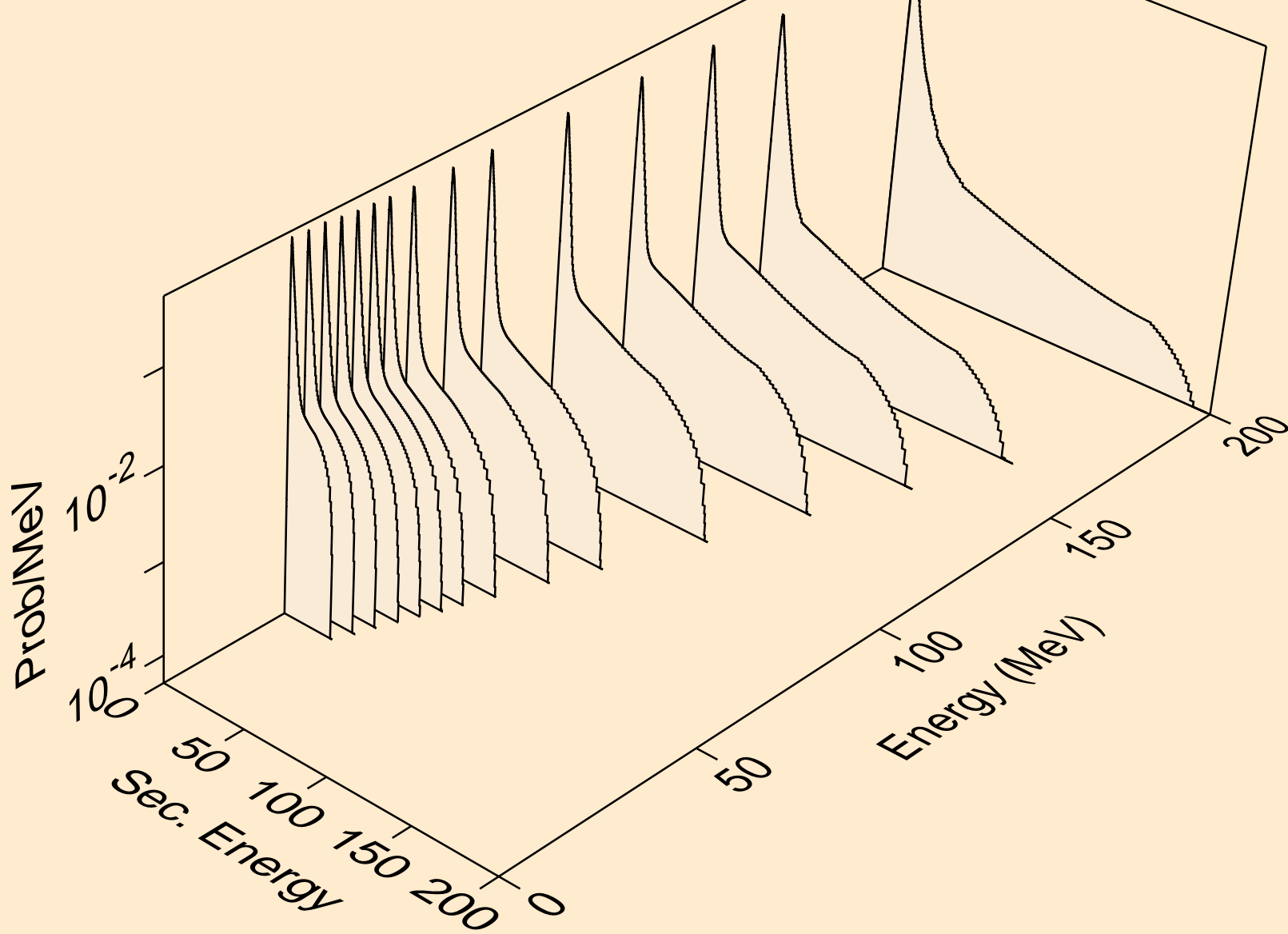
HG191M NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*2)



HG191M NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*3)

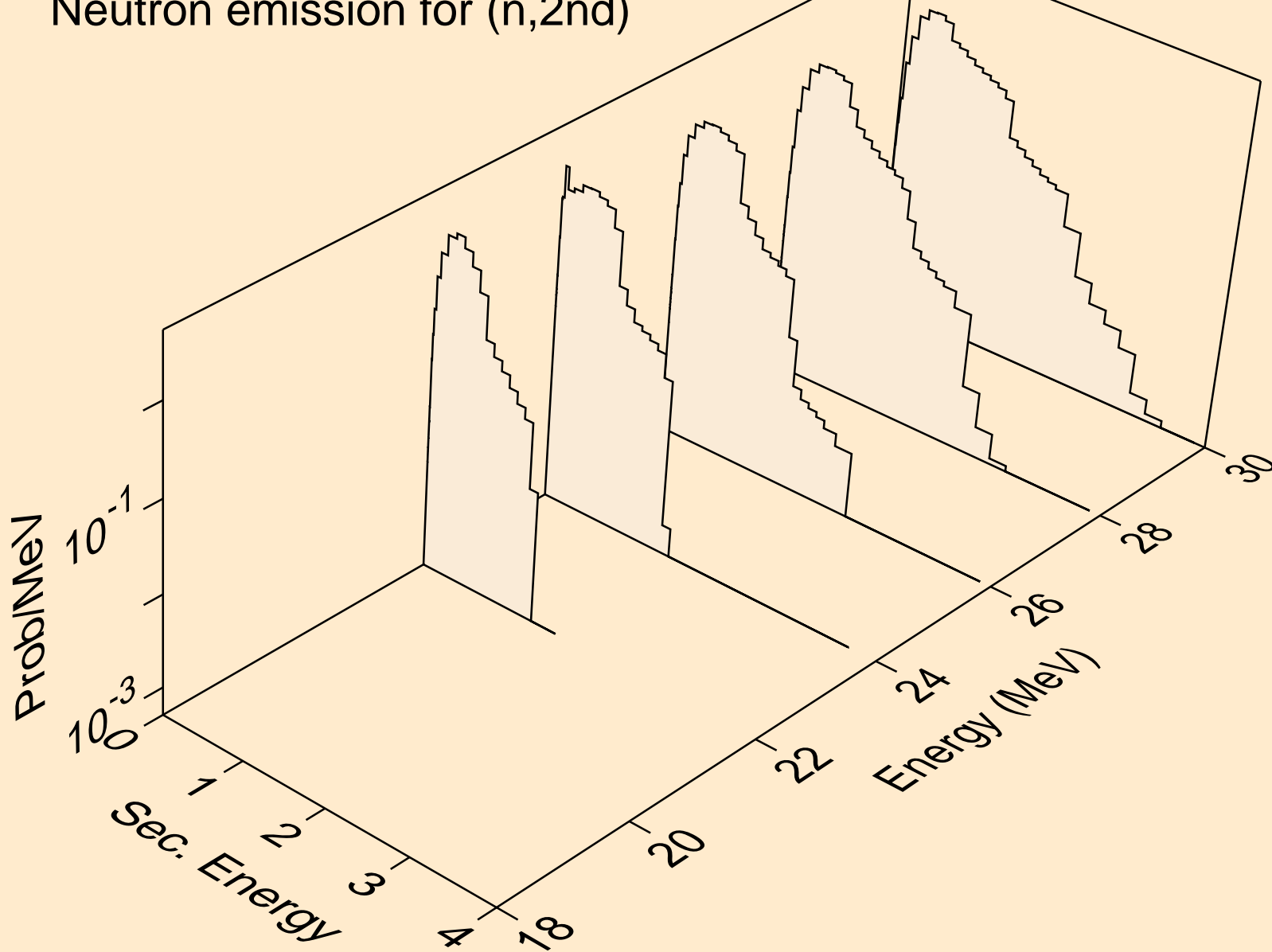


HG191M NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,x)

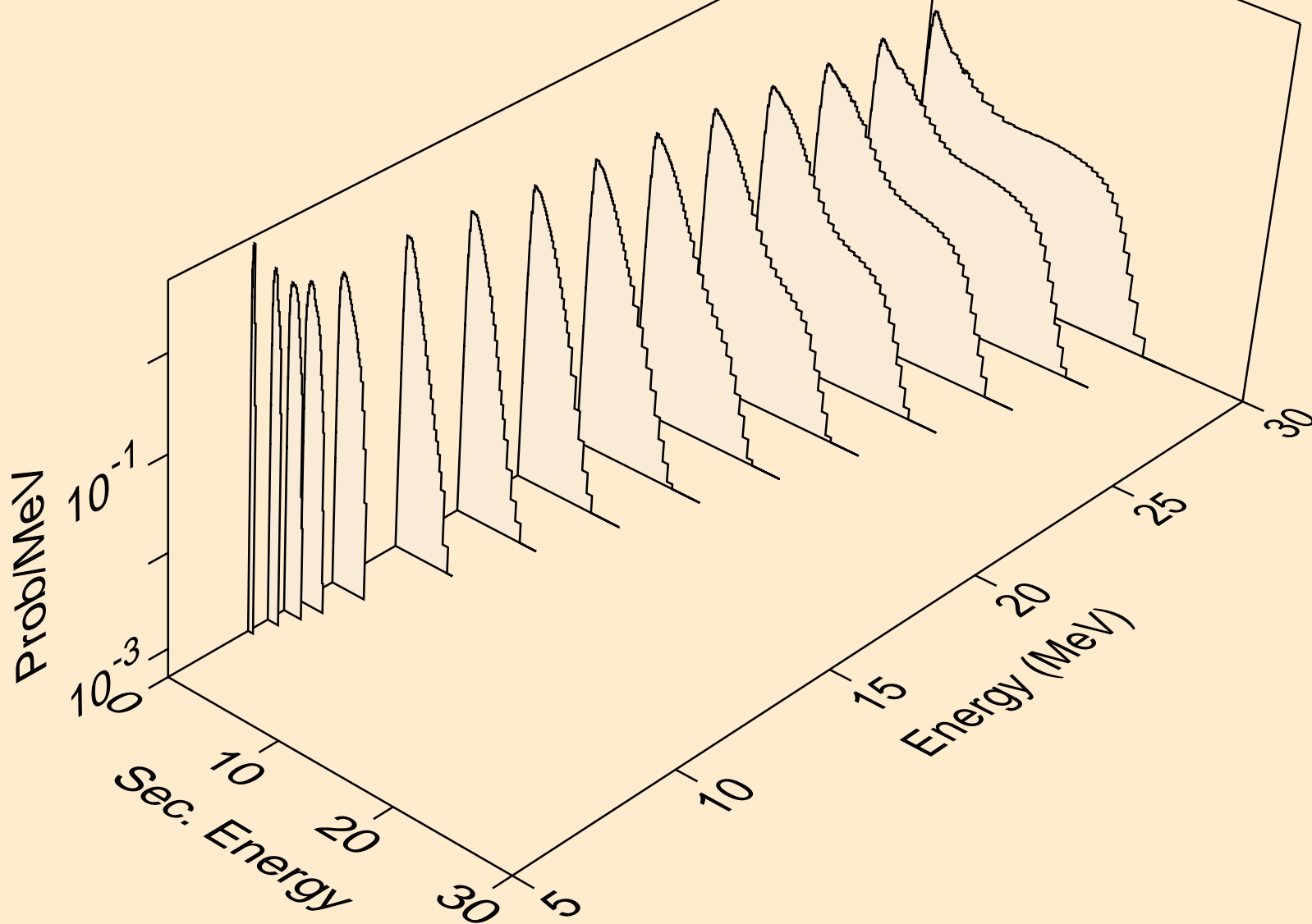




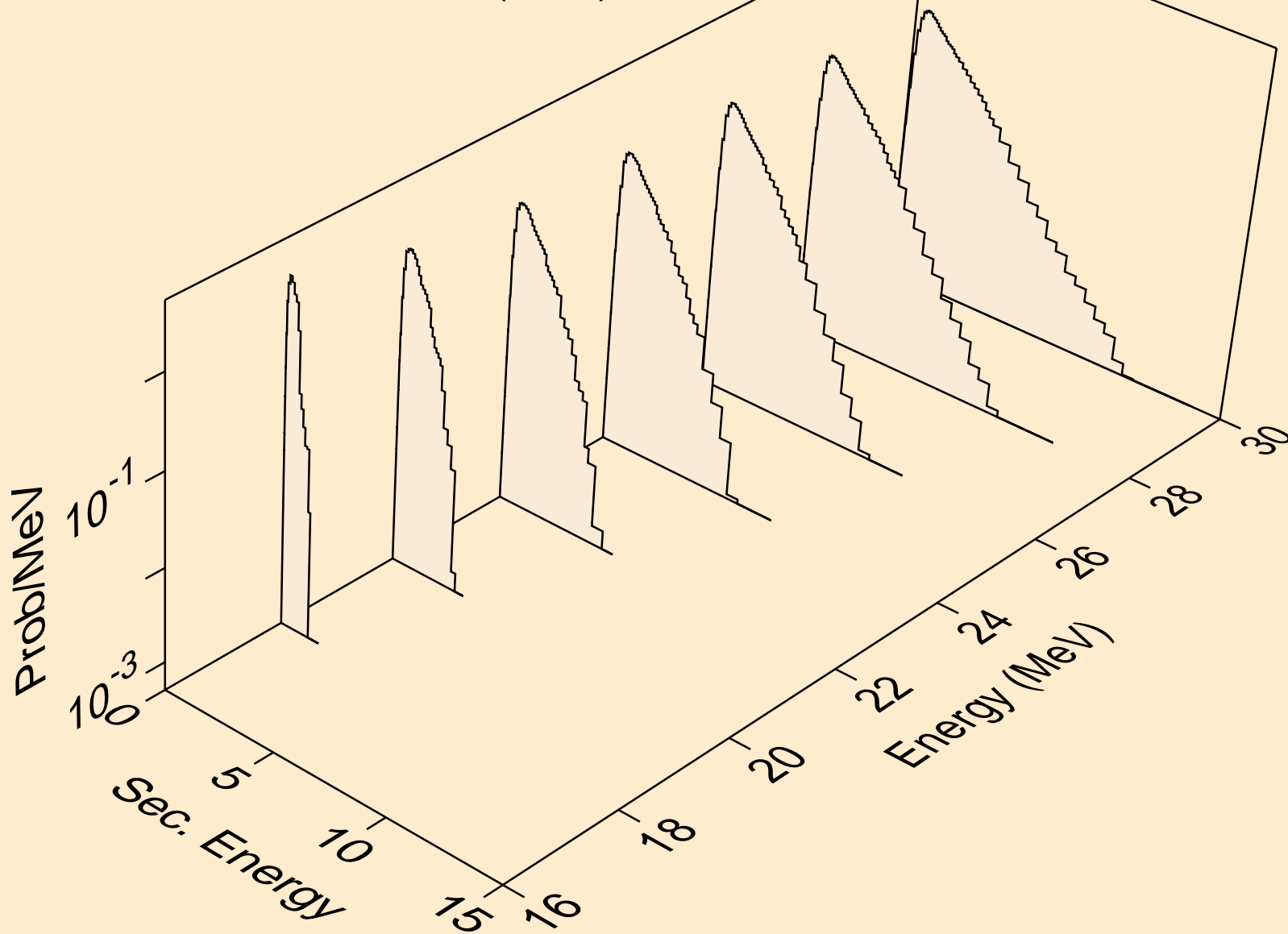
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Neutron emission for (n,2nd)



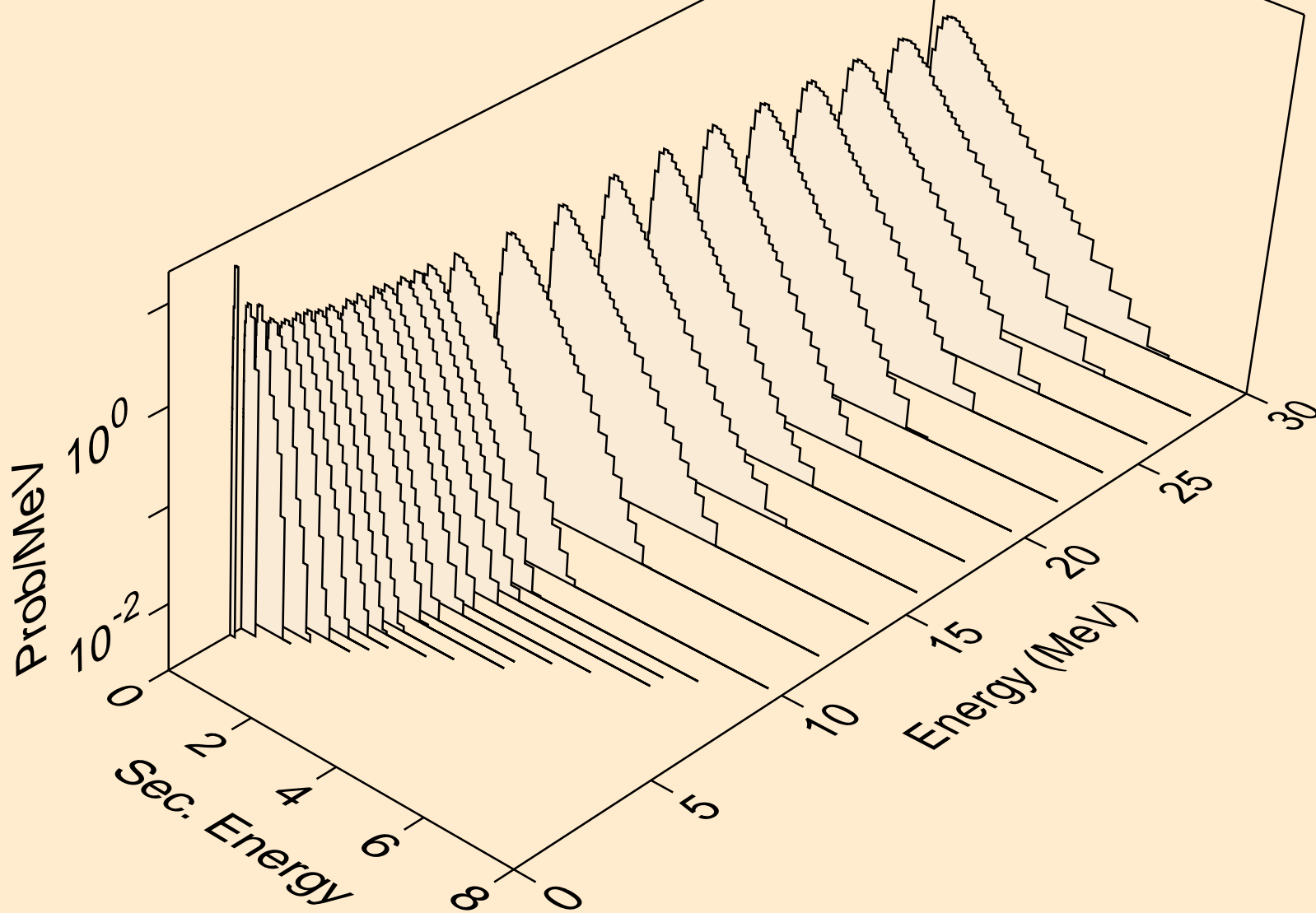
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Neutron emission for (n,2n)



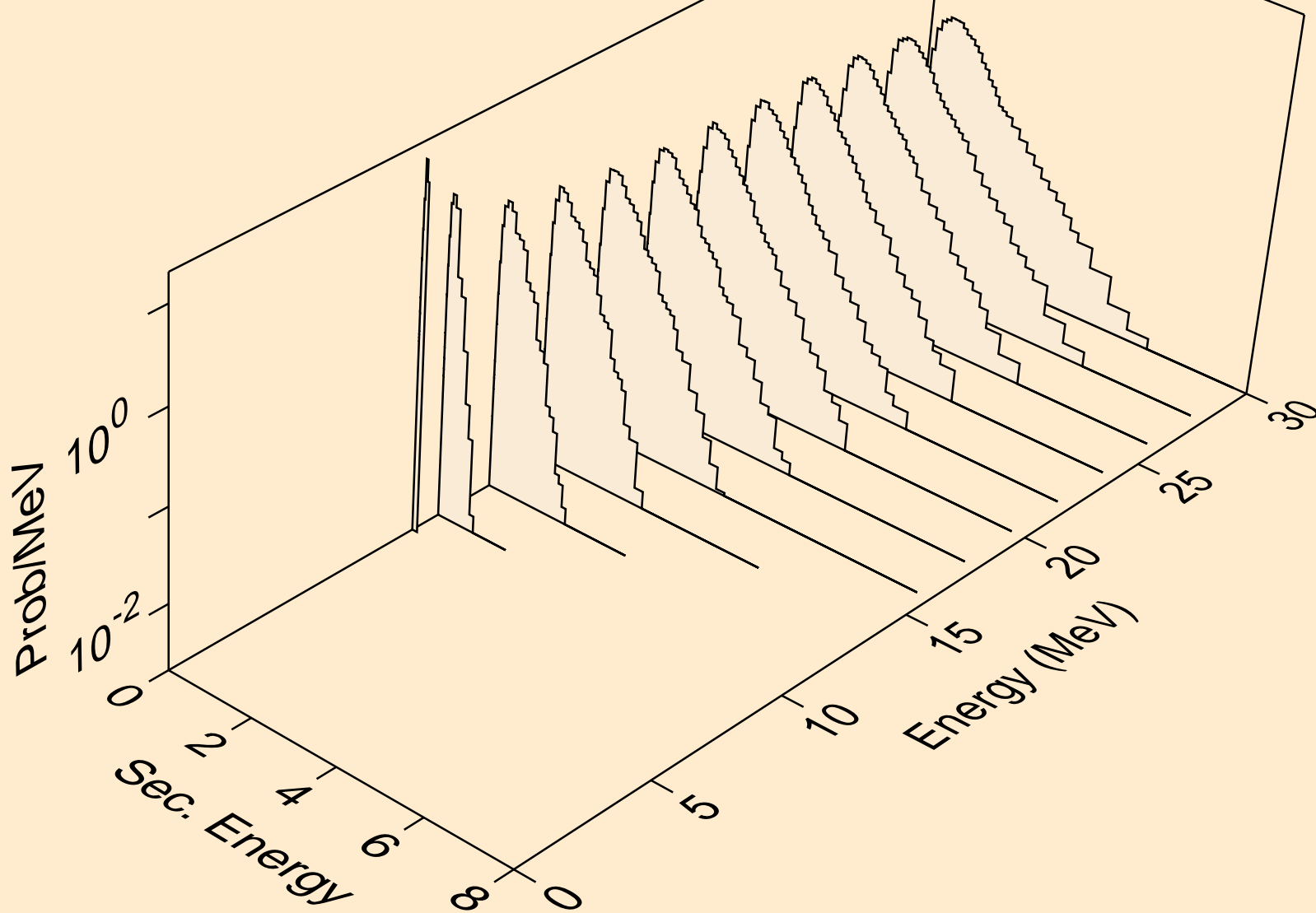
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Neutron emission for (n,3n)



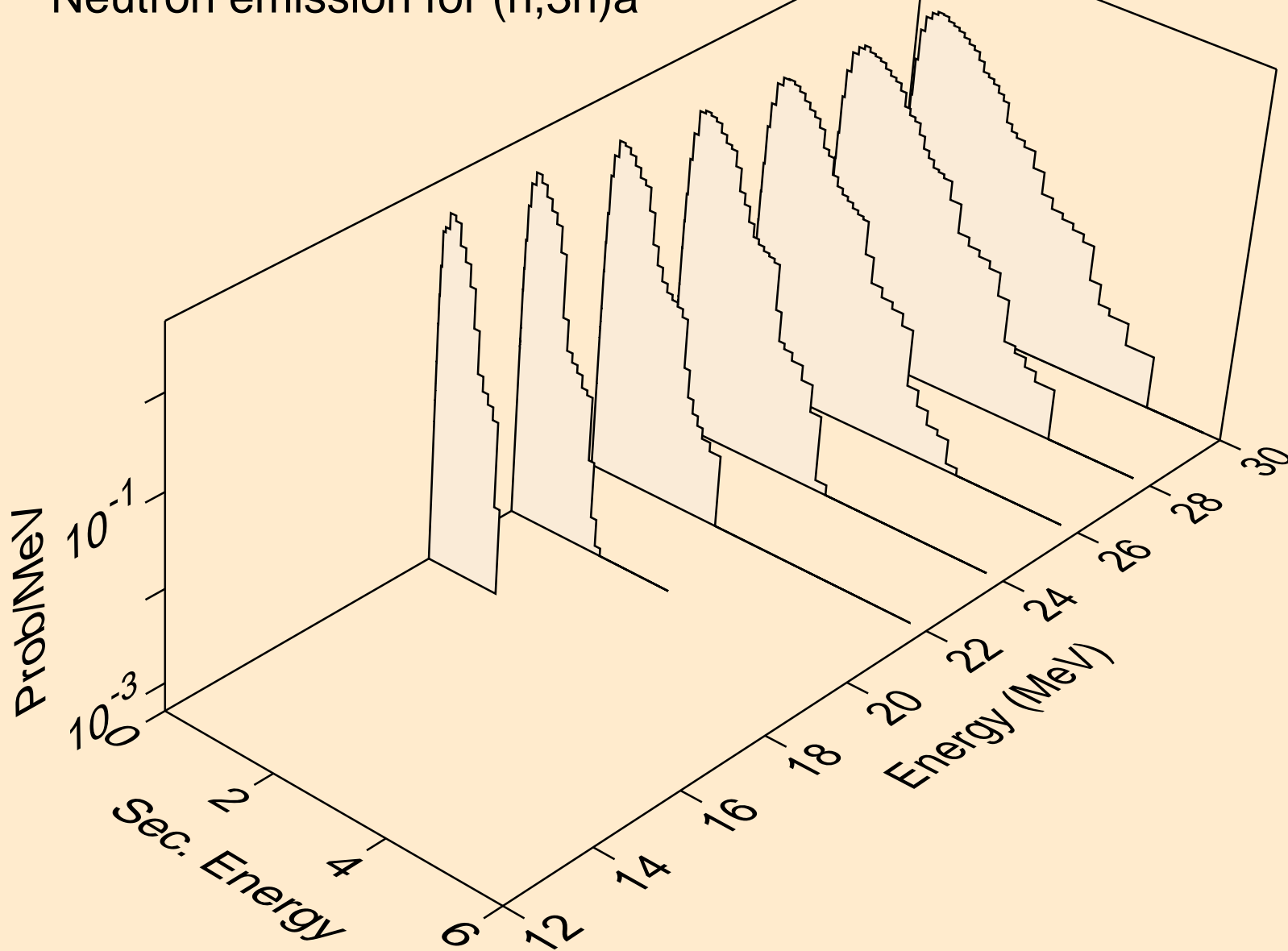
HG191M NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,n\*)a



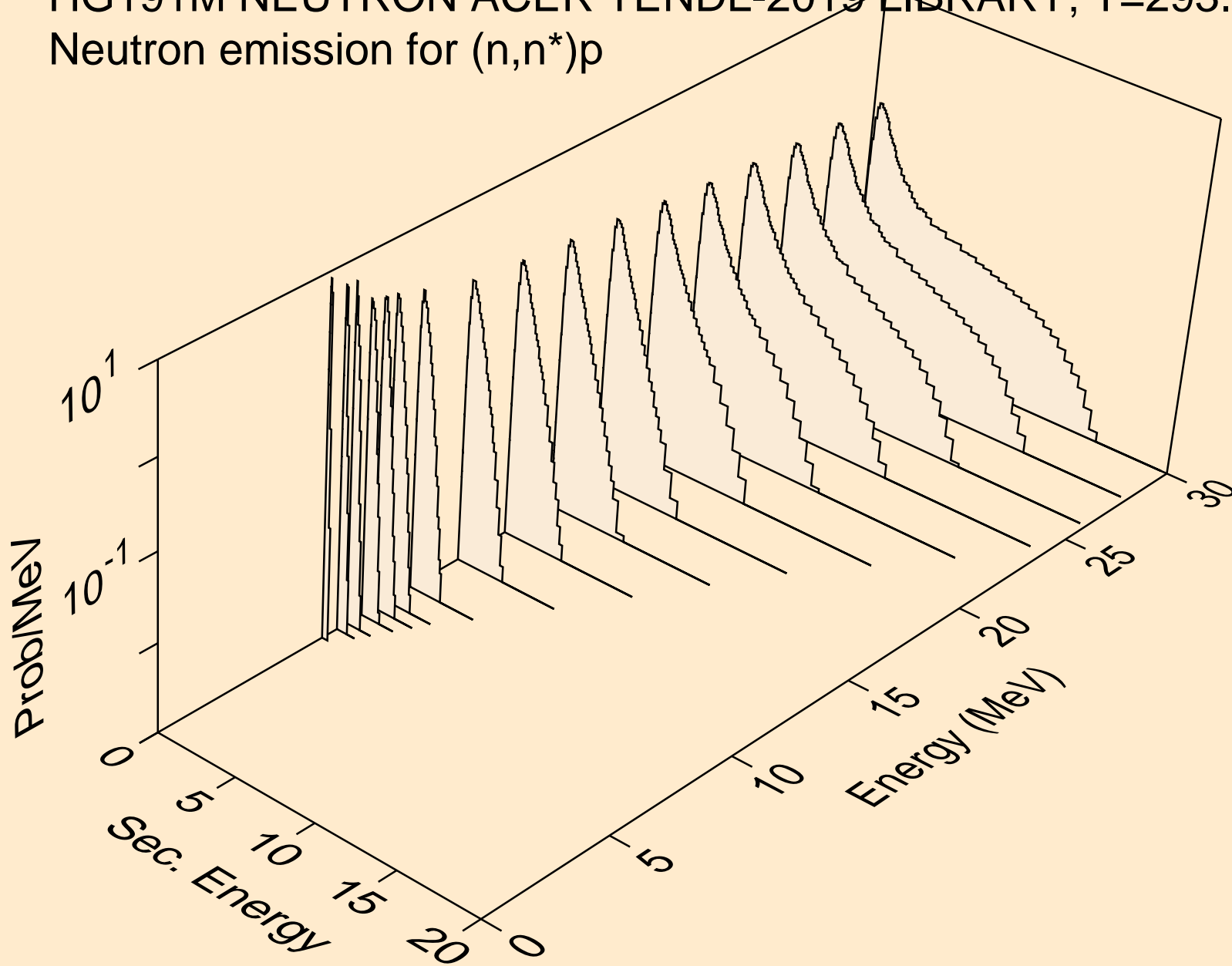
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Neutron emission for (n,2n)a



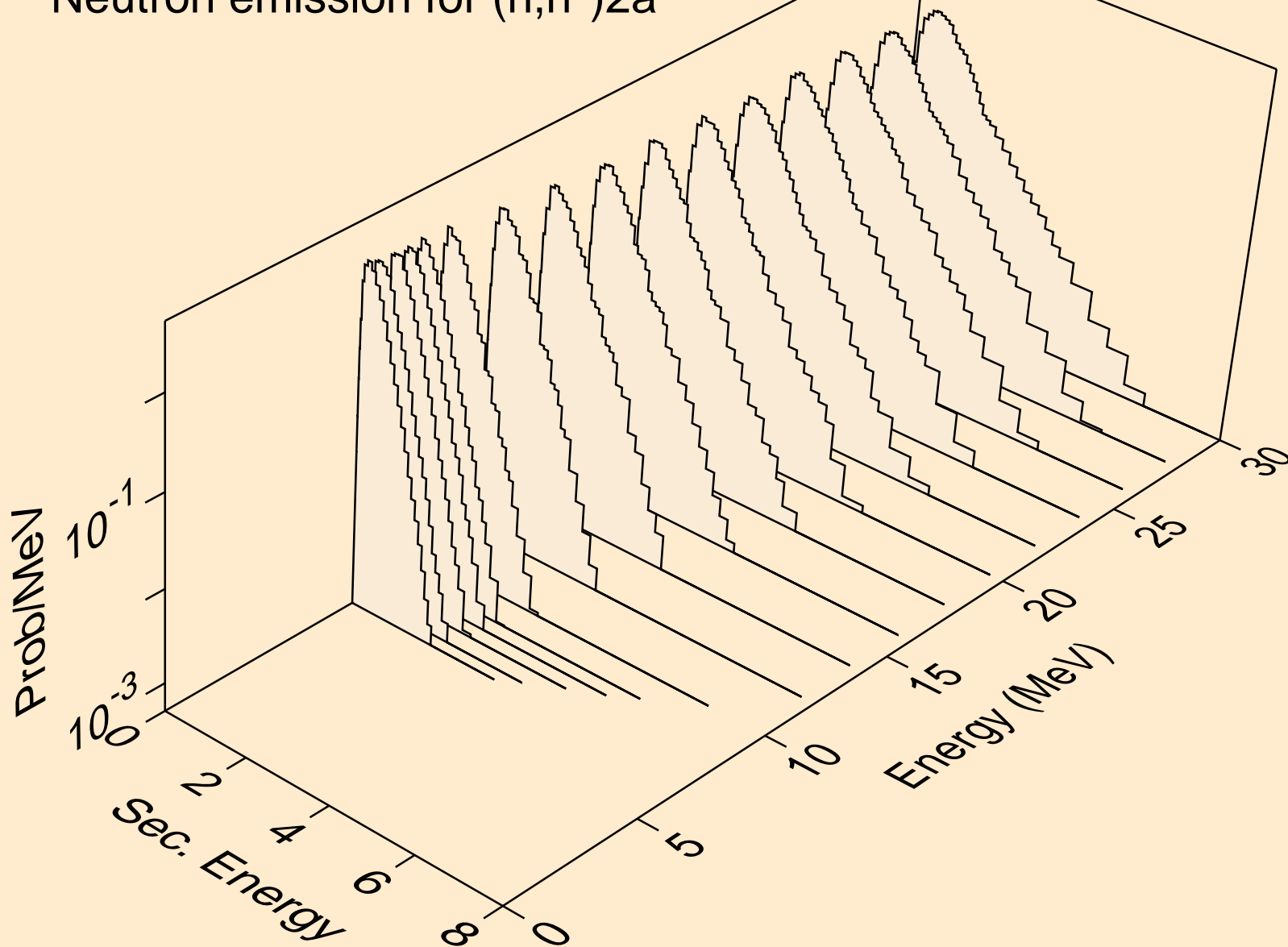
HG191M NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,3n)a



HG191M NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,n\*)p

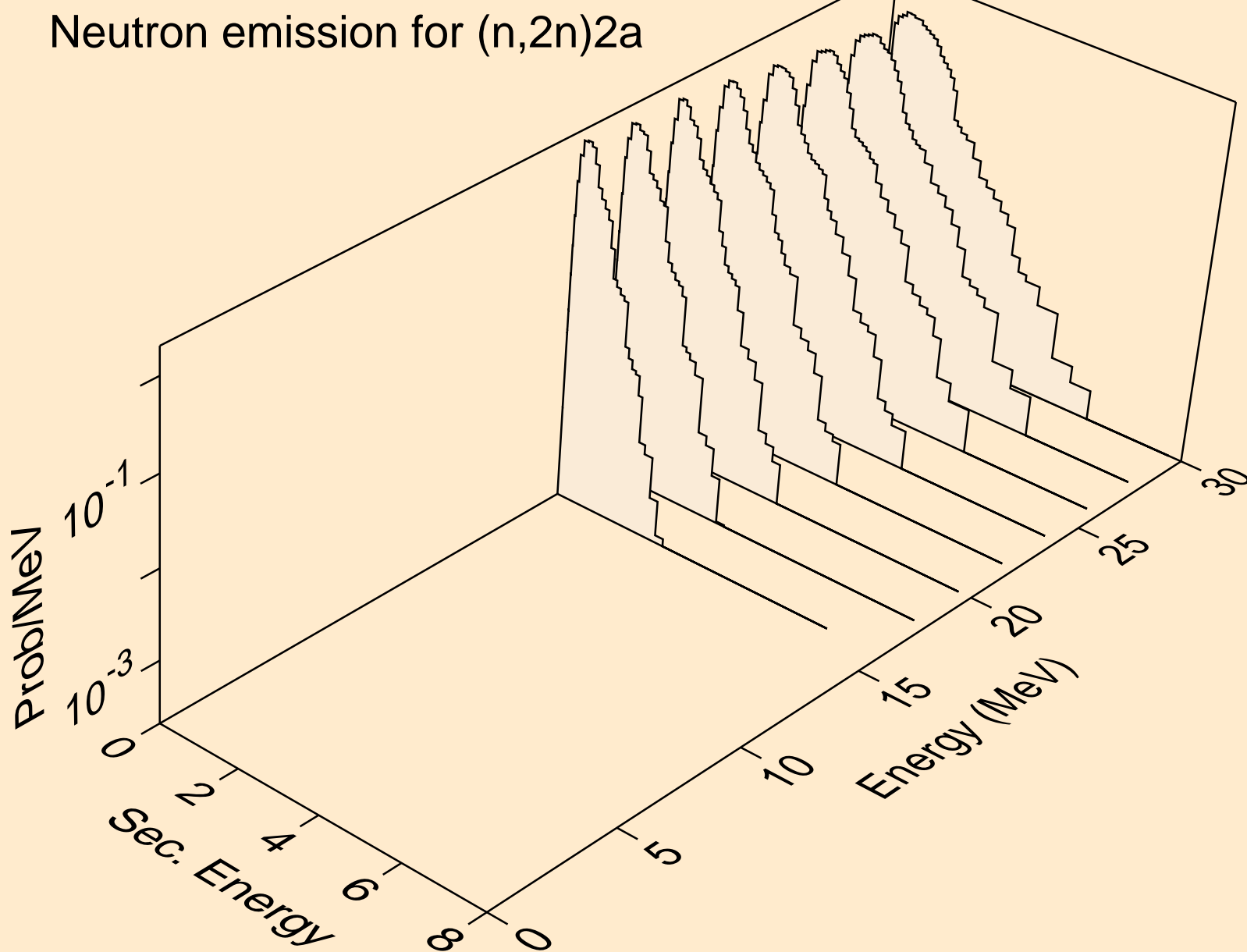


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Neutron emission for (n,n\*)2a

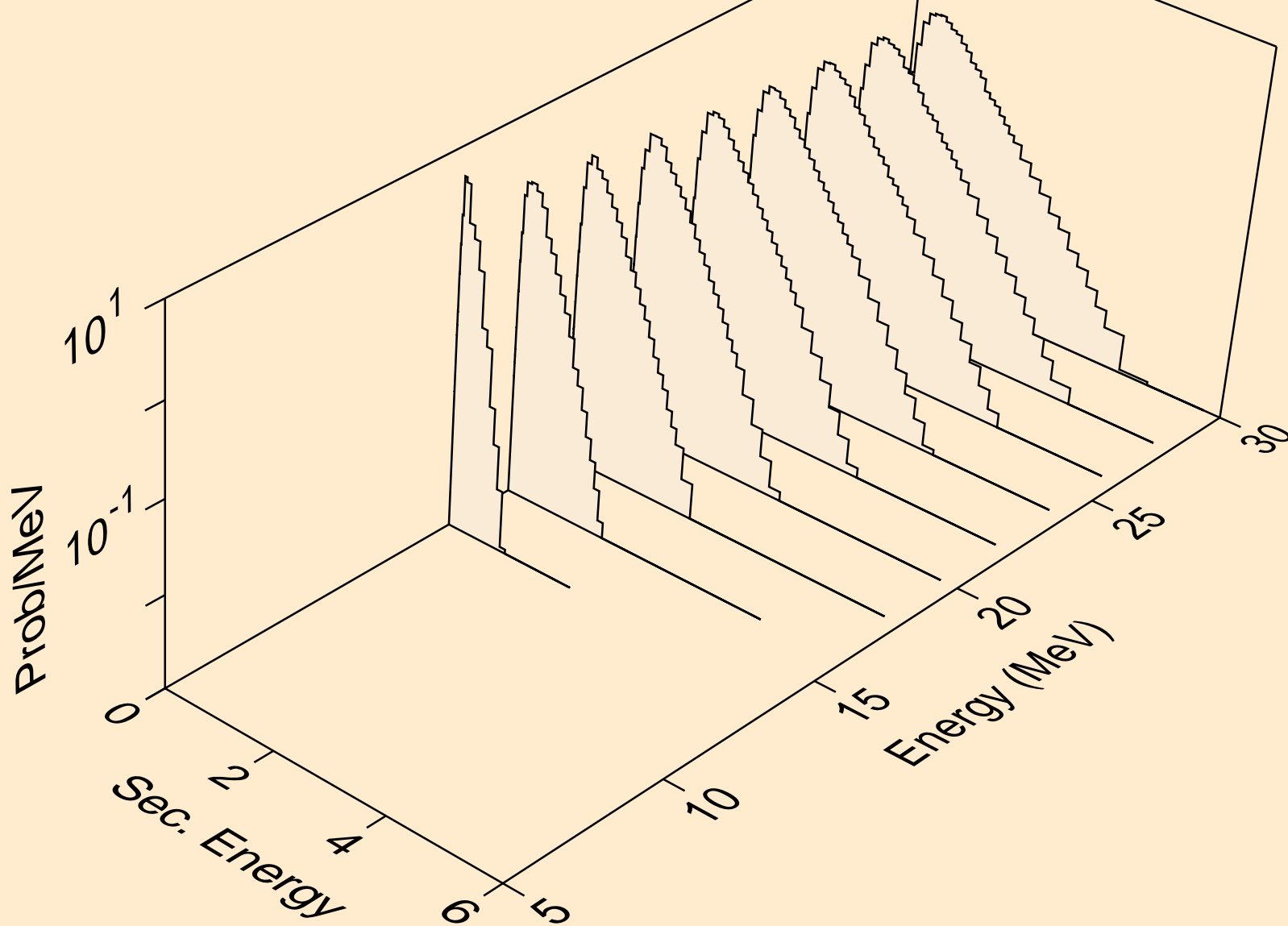




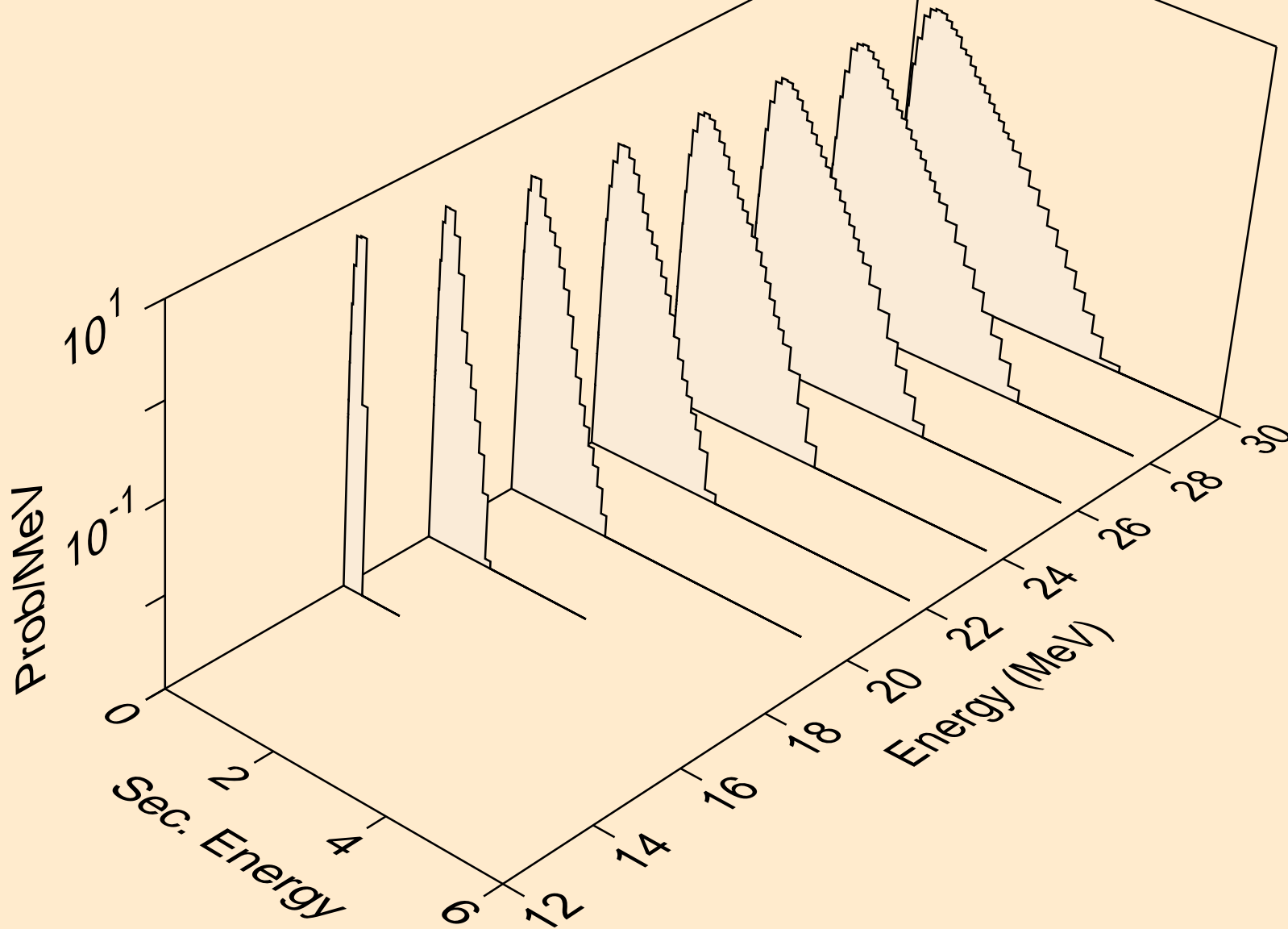
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Neutron emission for (n,2n)2a



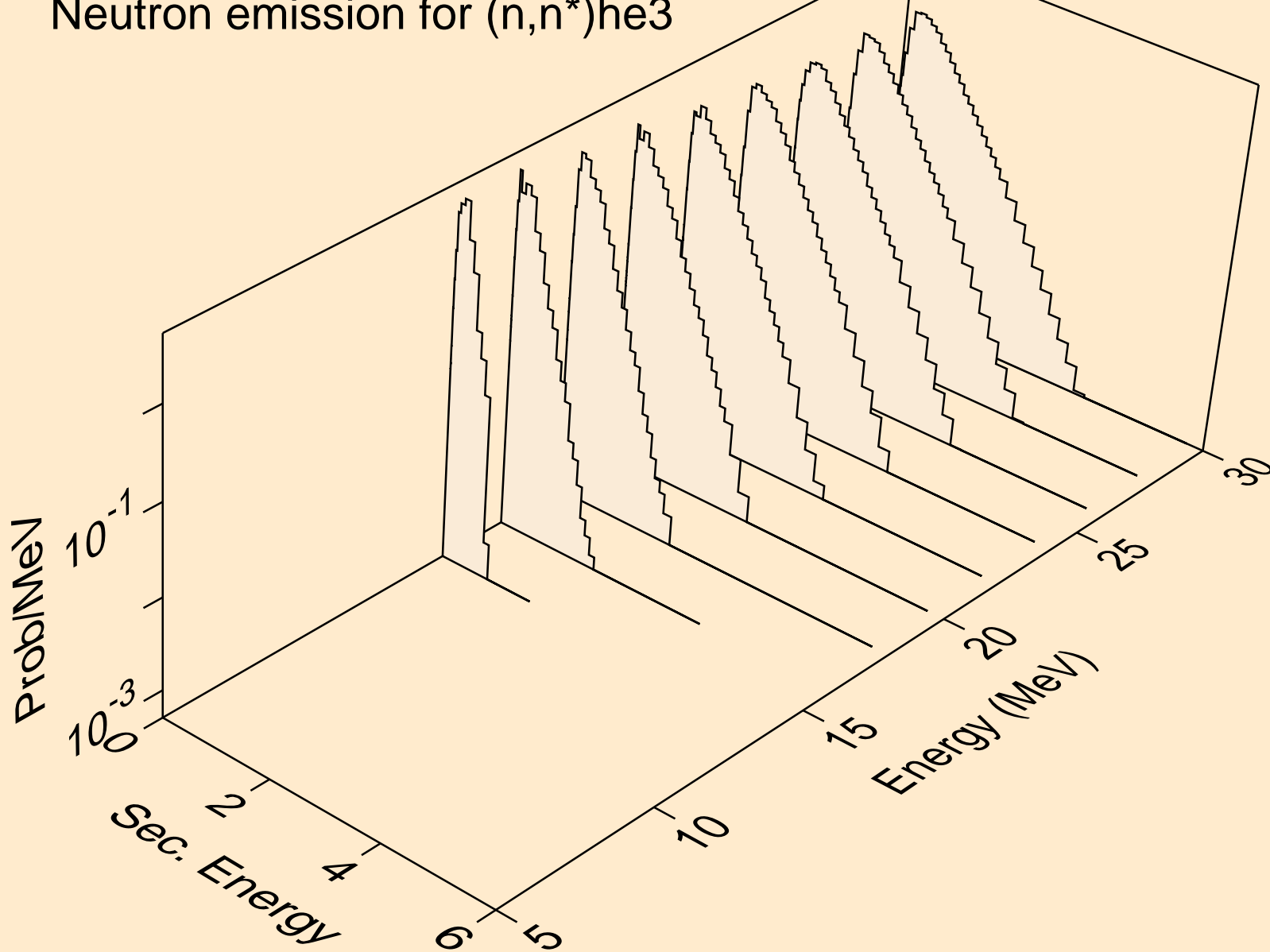
HG191M NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,n\*)d



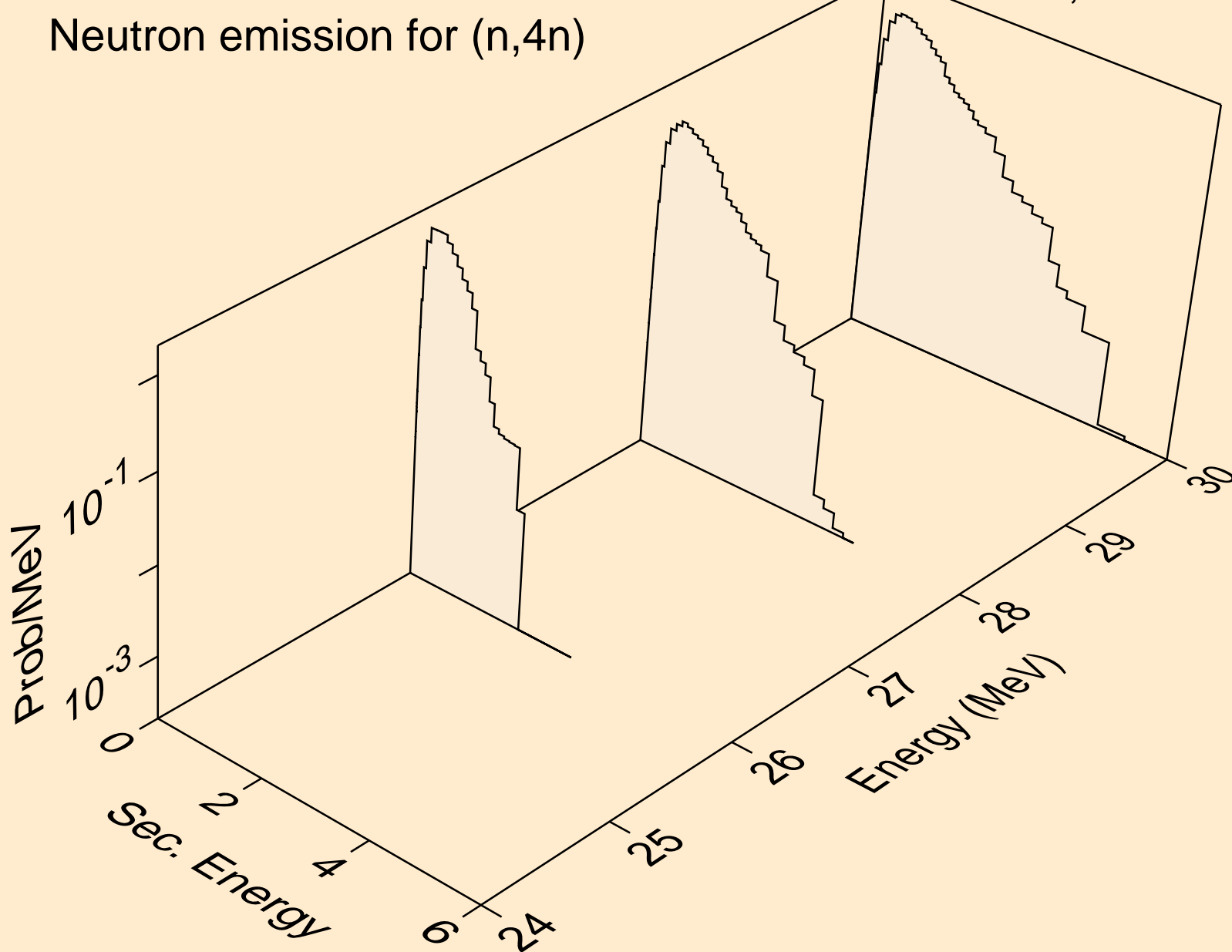
HG191M NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,n\*)t



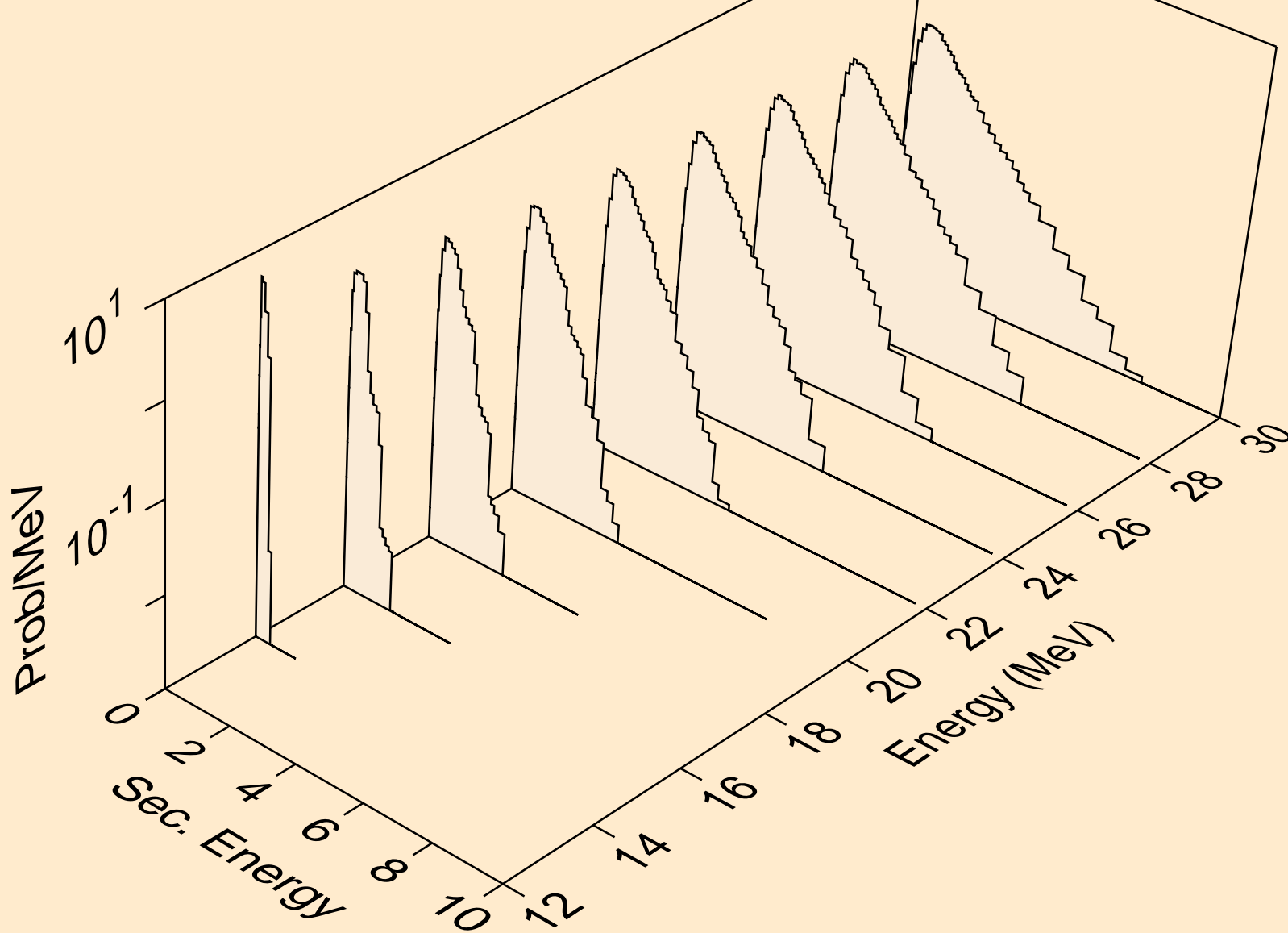
HG191M NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,n\*)he3



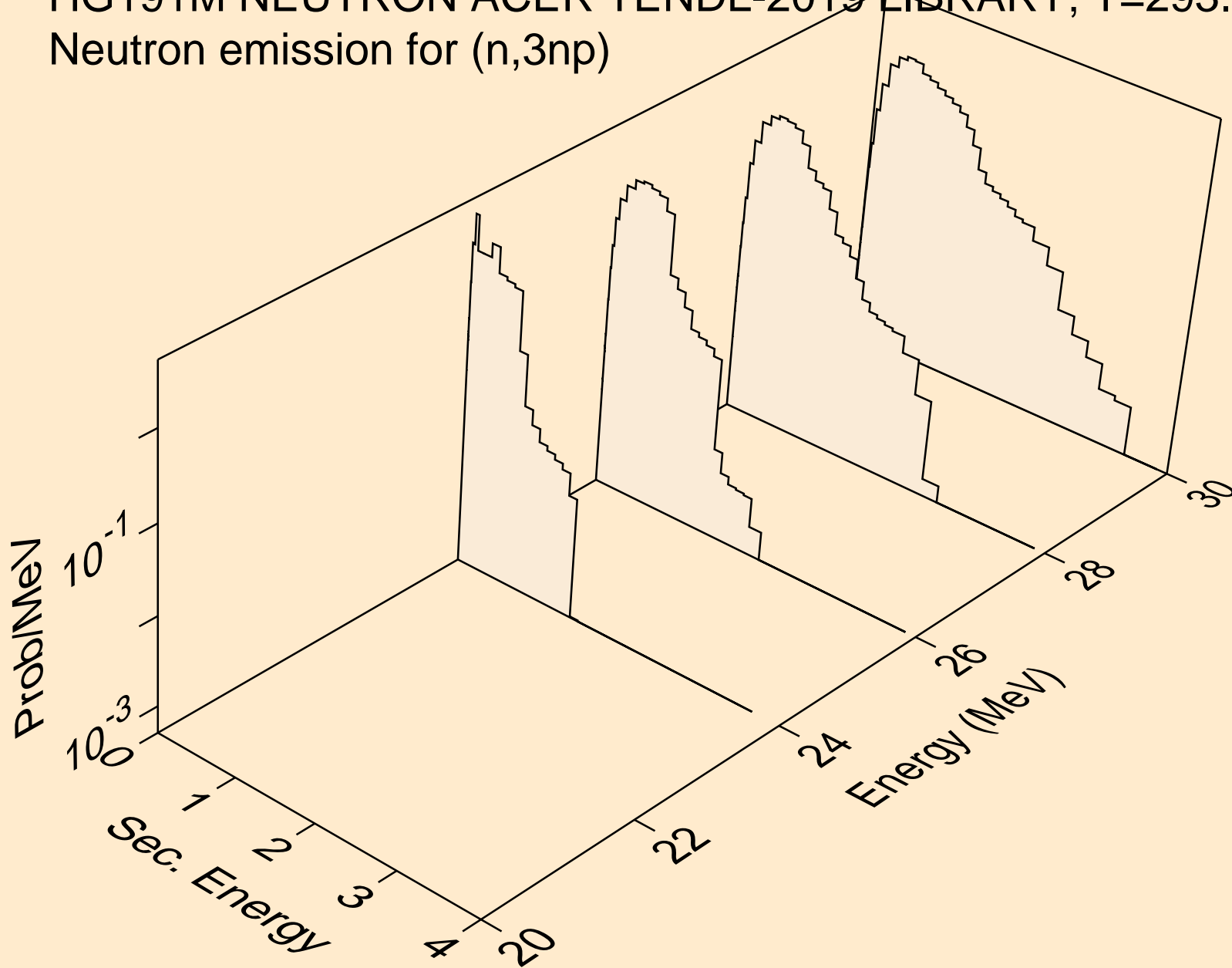
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Neutron emission for (n,4n)



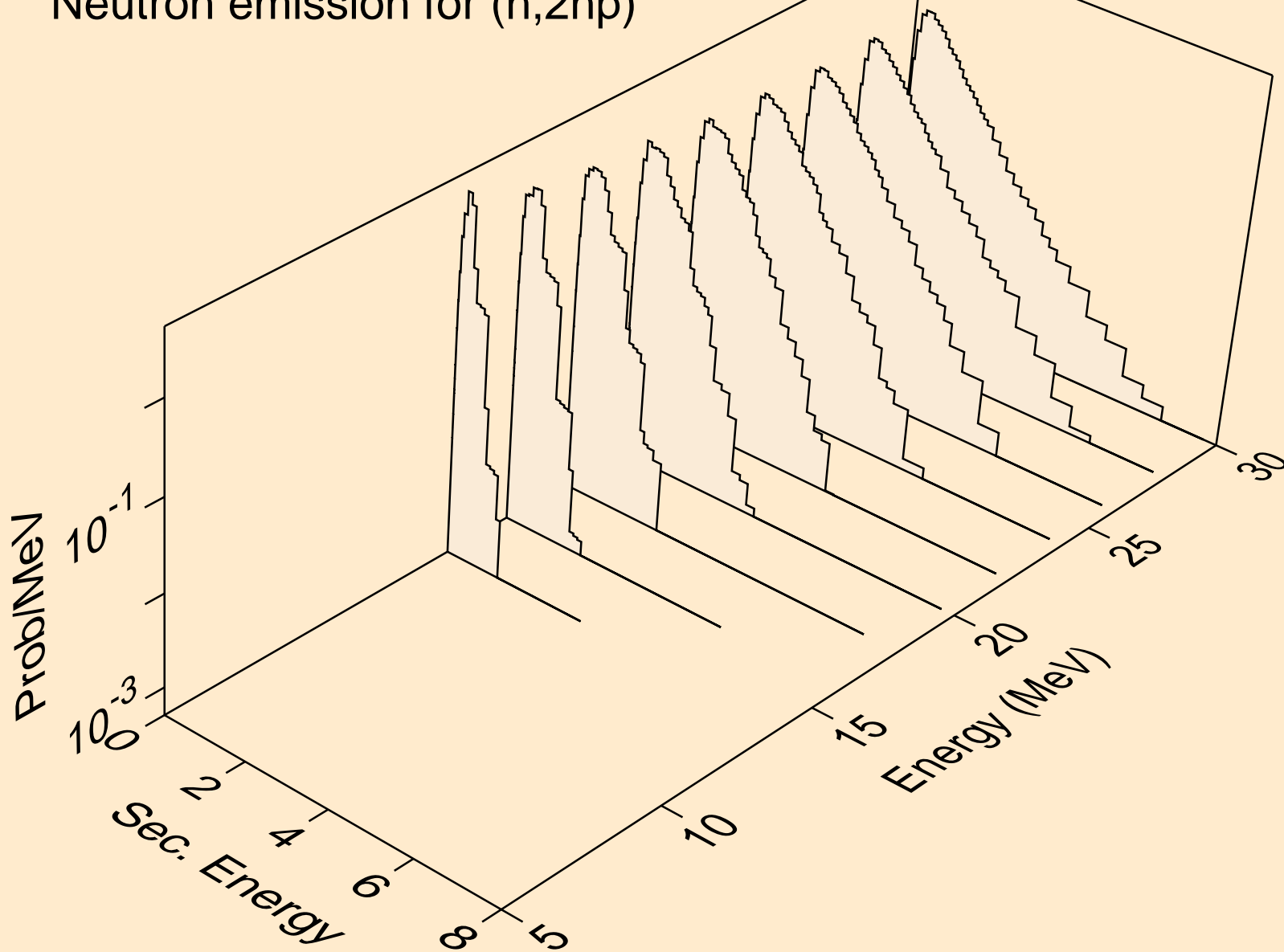
HG191M NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,2np)



HG191M NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,3np)

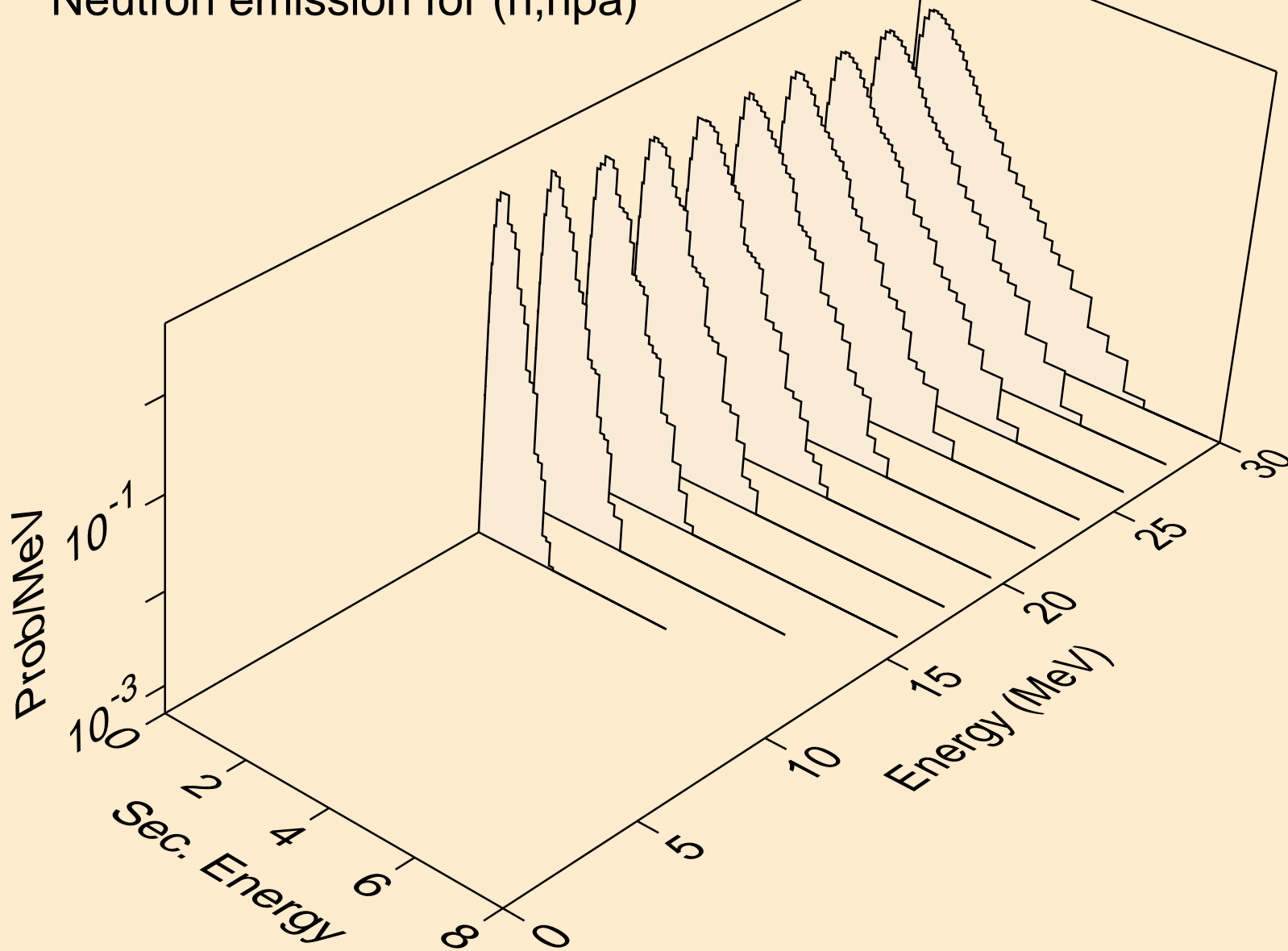


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Neutron emission for (n,2np)

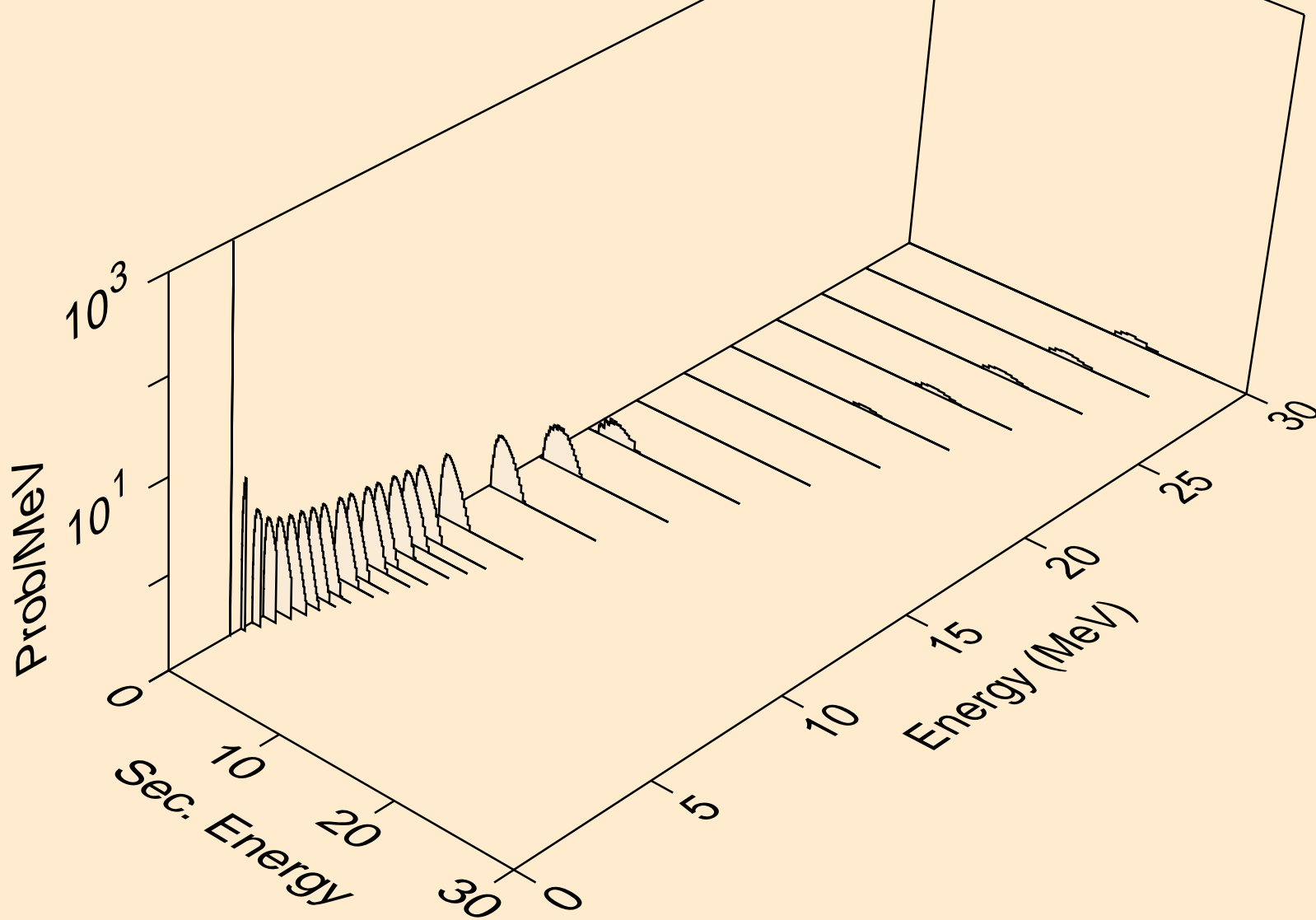




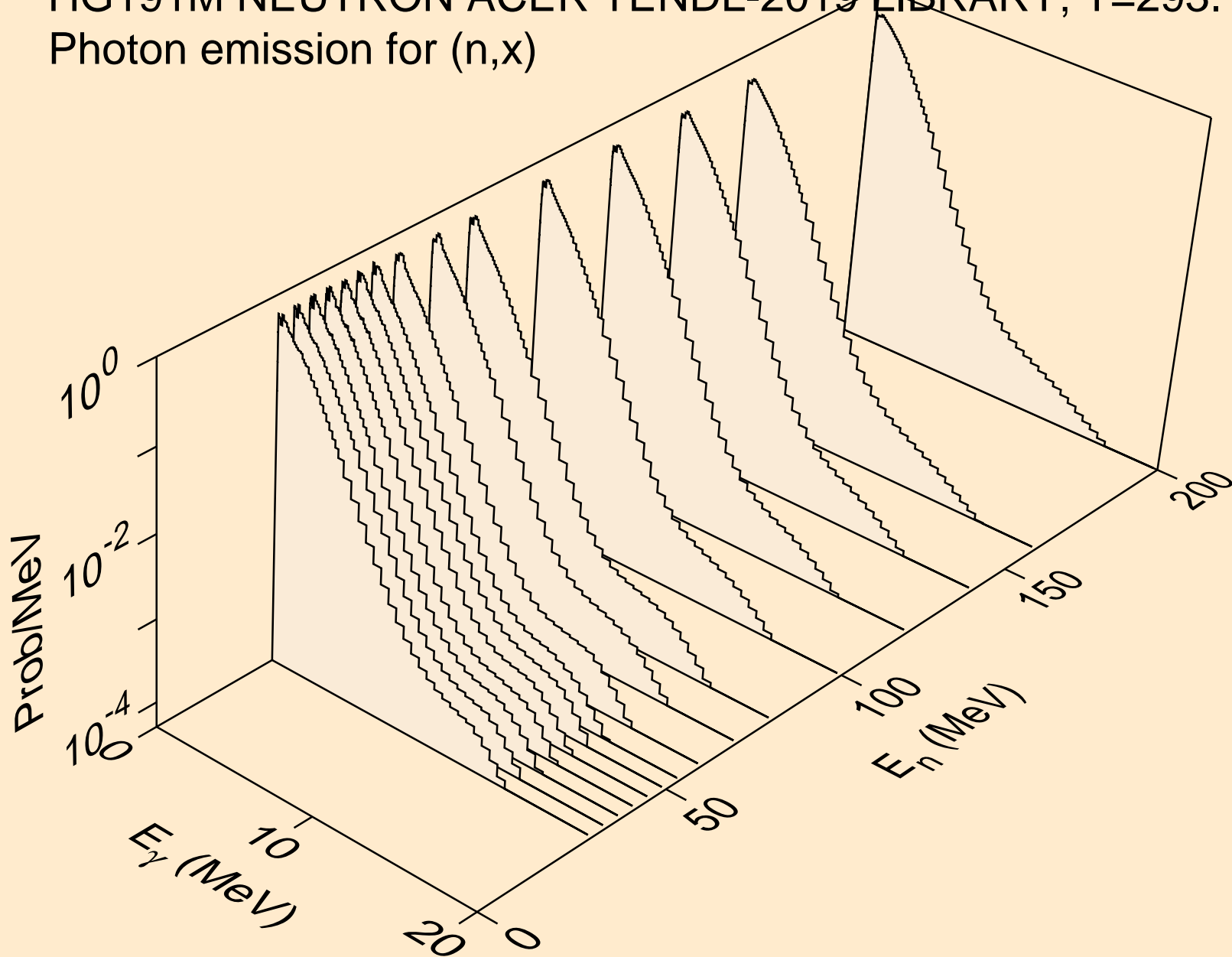
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Neutron emission for (n,npa)



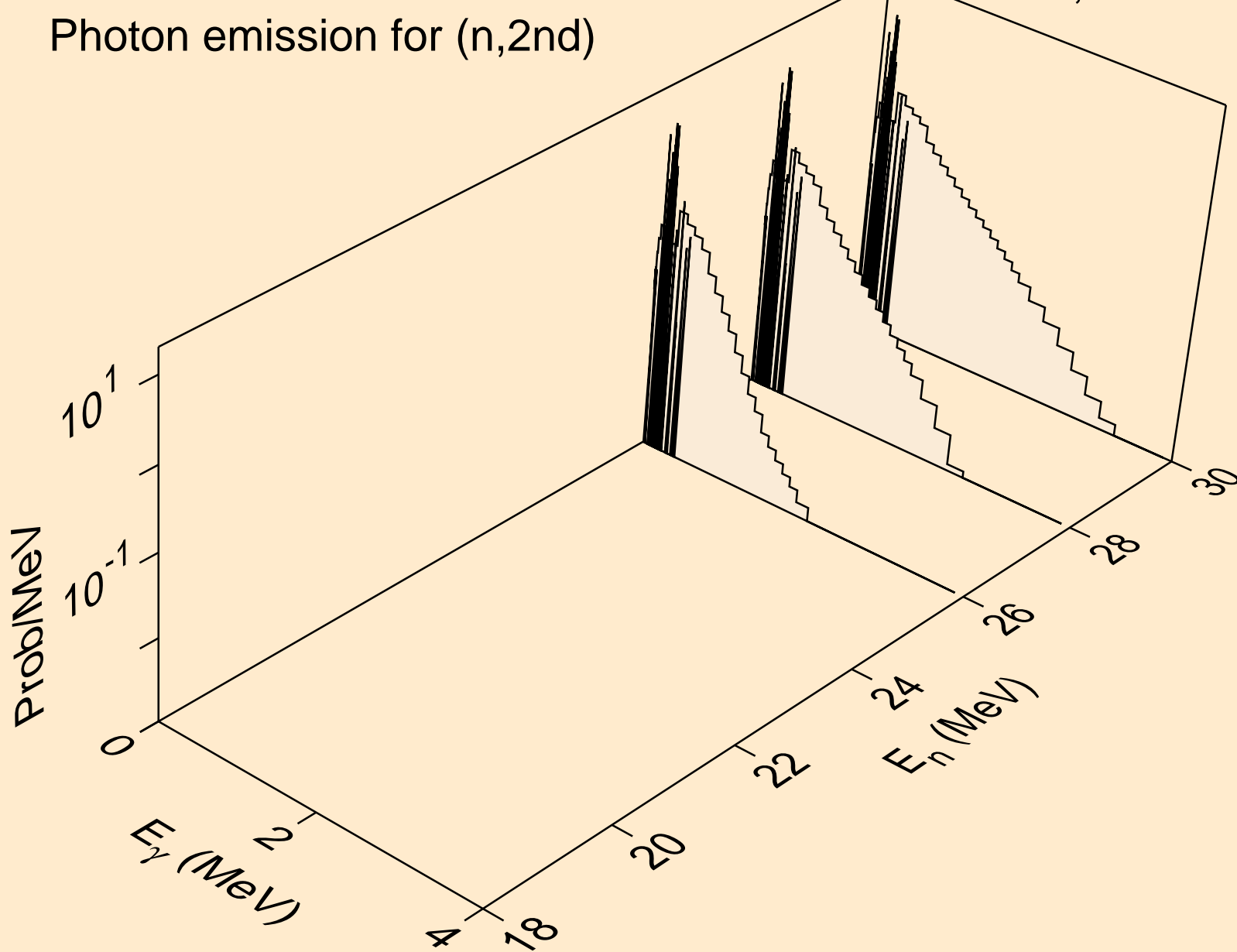
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Neutron emission for (n,n\*c)



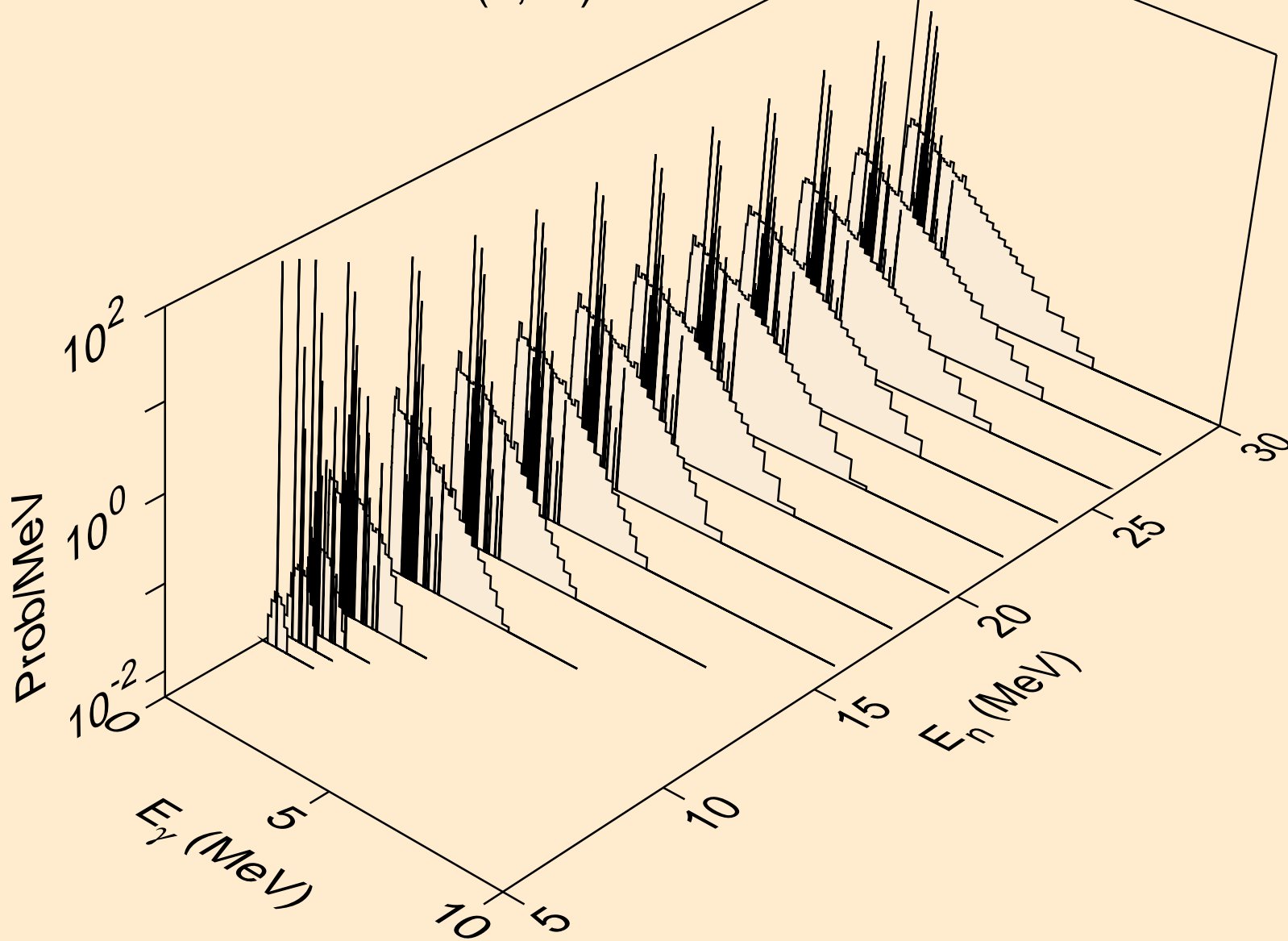
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Photon emission for (n,x)



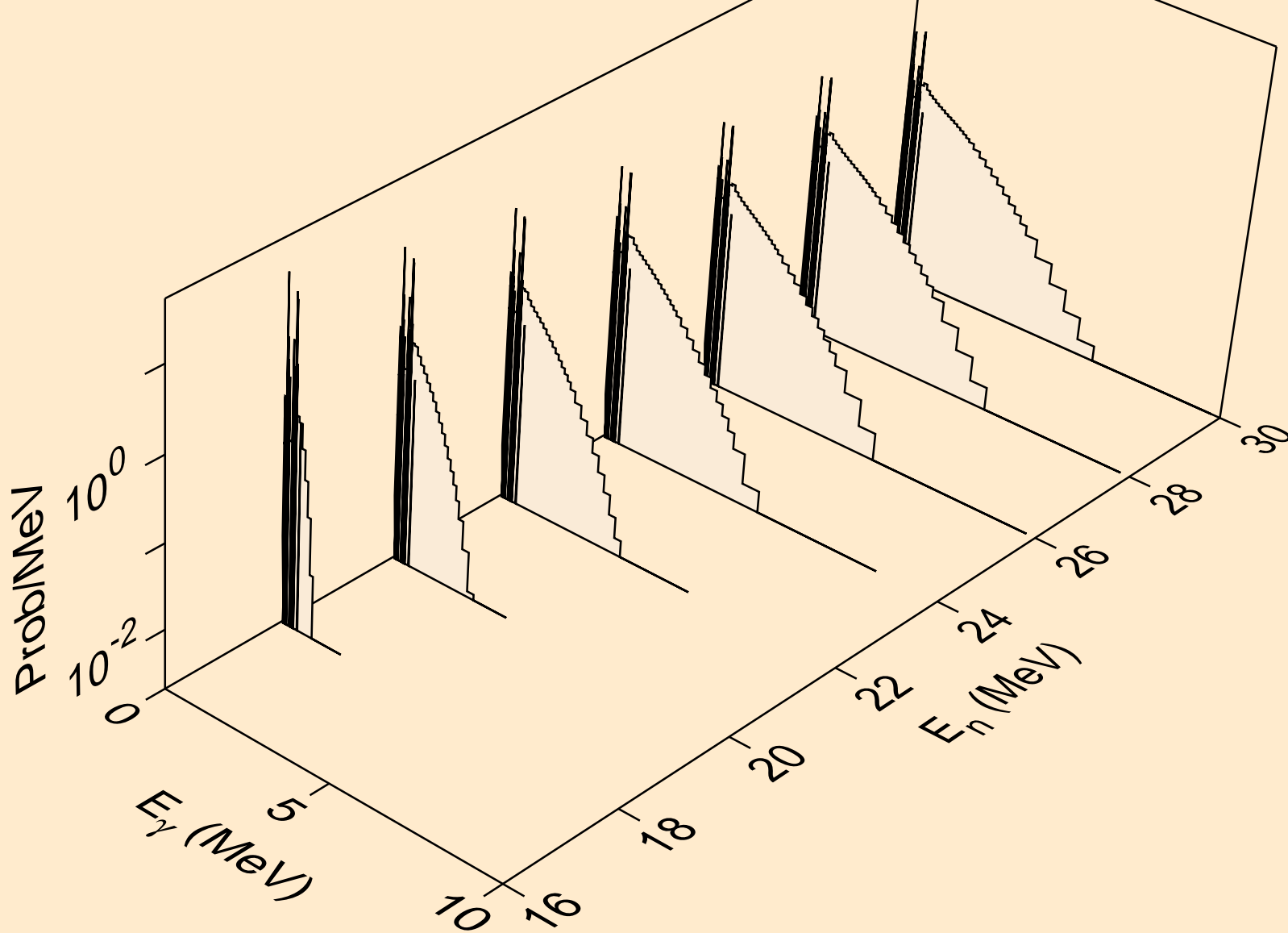
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Photon emission for (n,2nd)



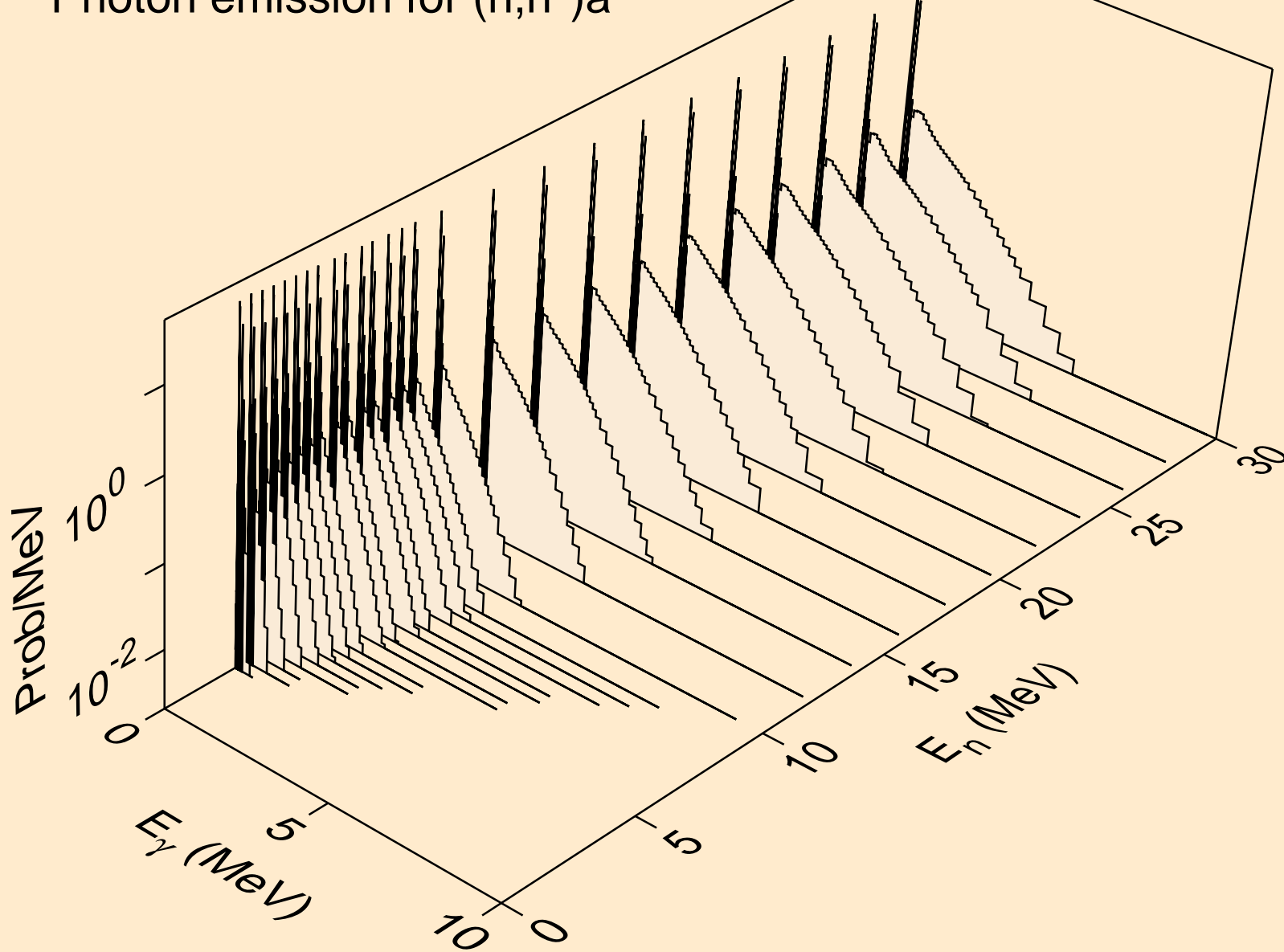
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Photon emission for (n,2n)



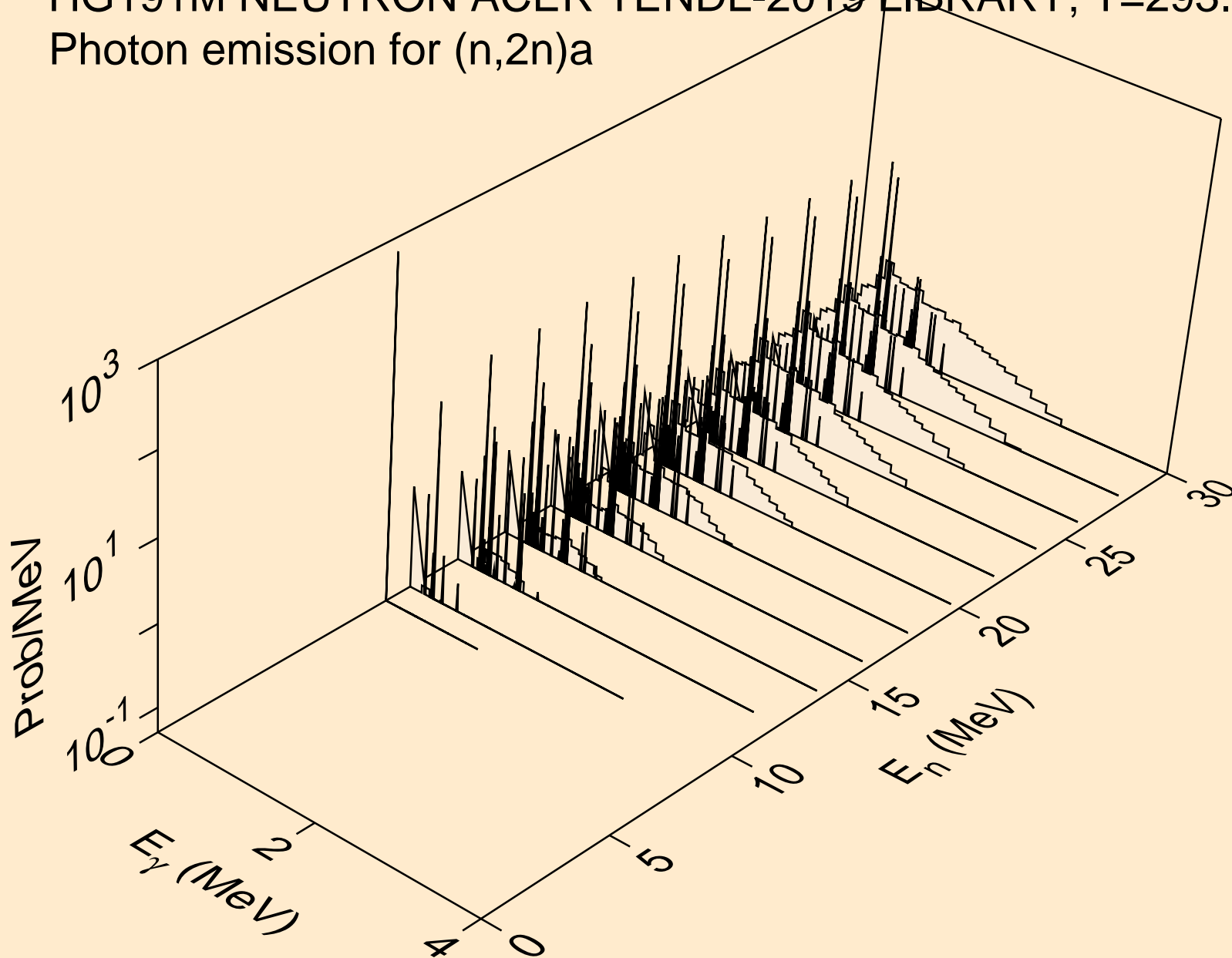
HG191M NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,3n)



HG191M NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,n\*)a

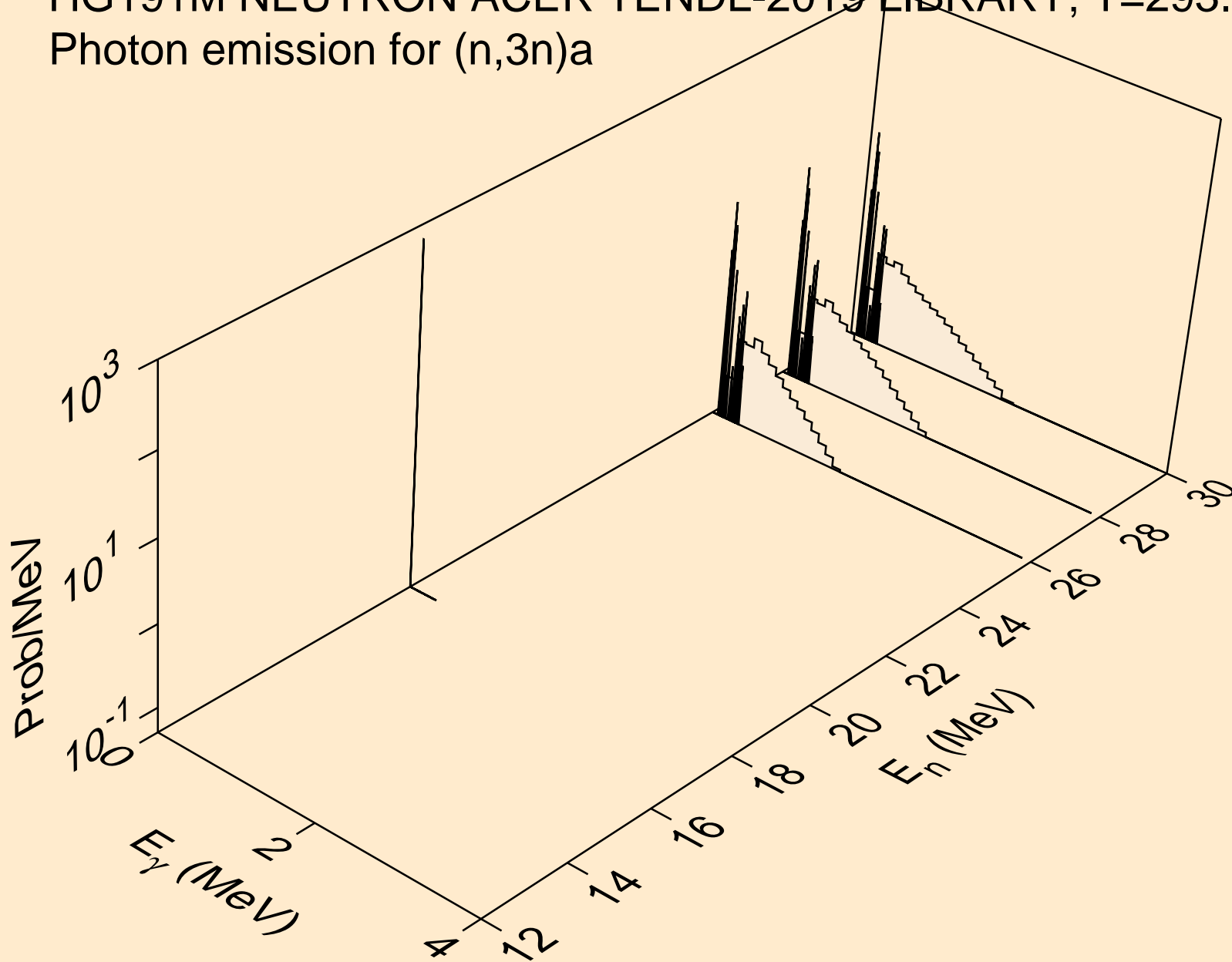


HG191M NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,2n)a

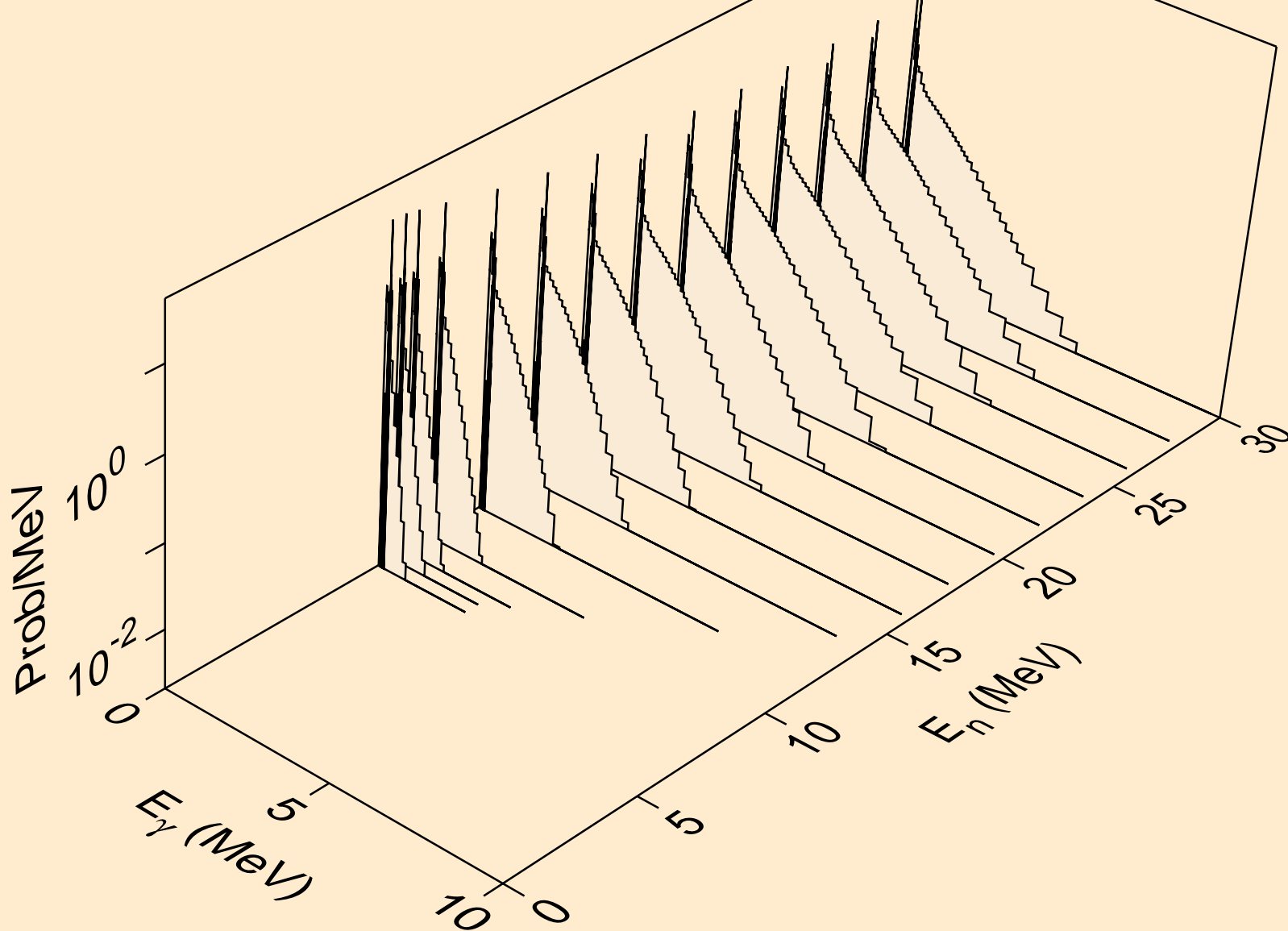




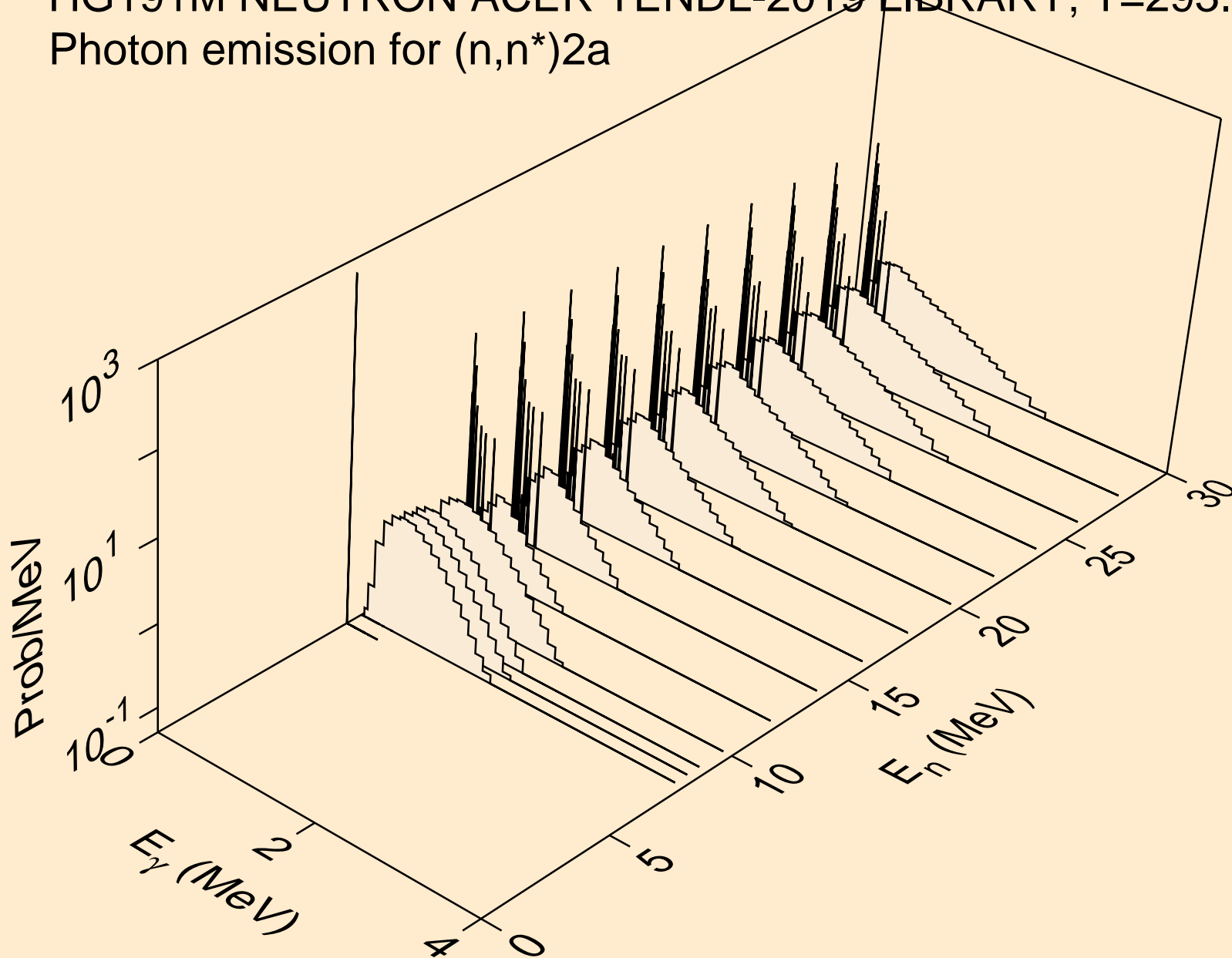
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Photon emission for (n,3n)a



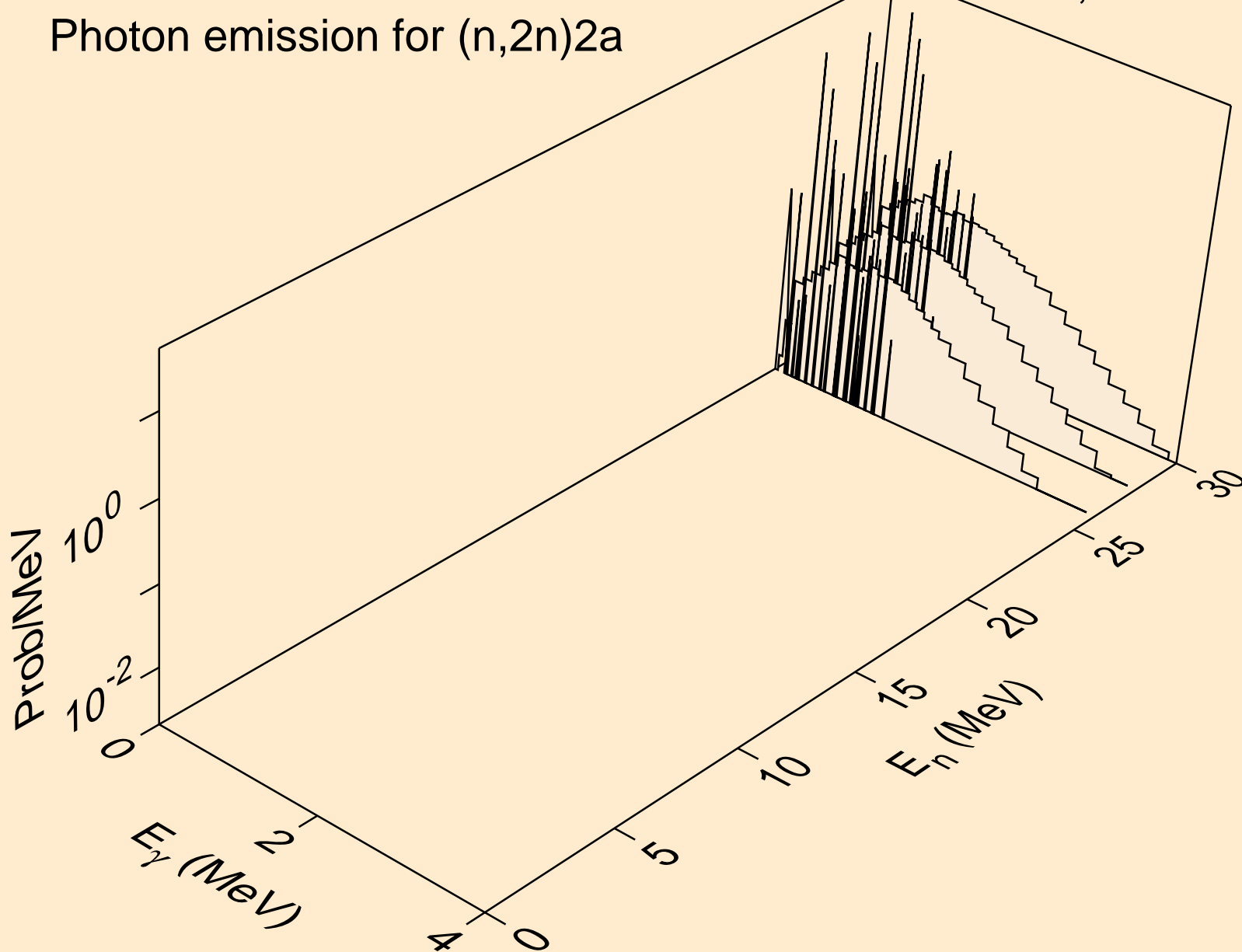
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Photon emission for (n,n\*)p



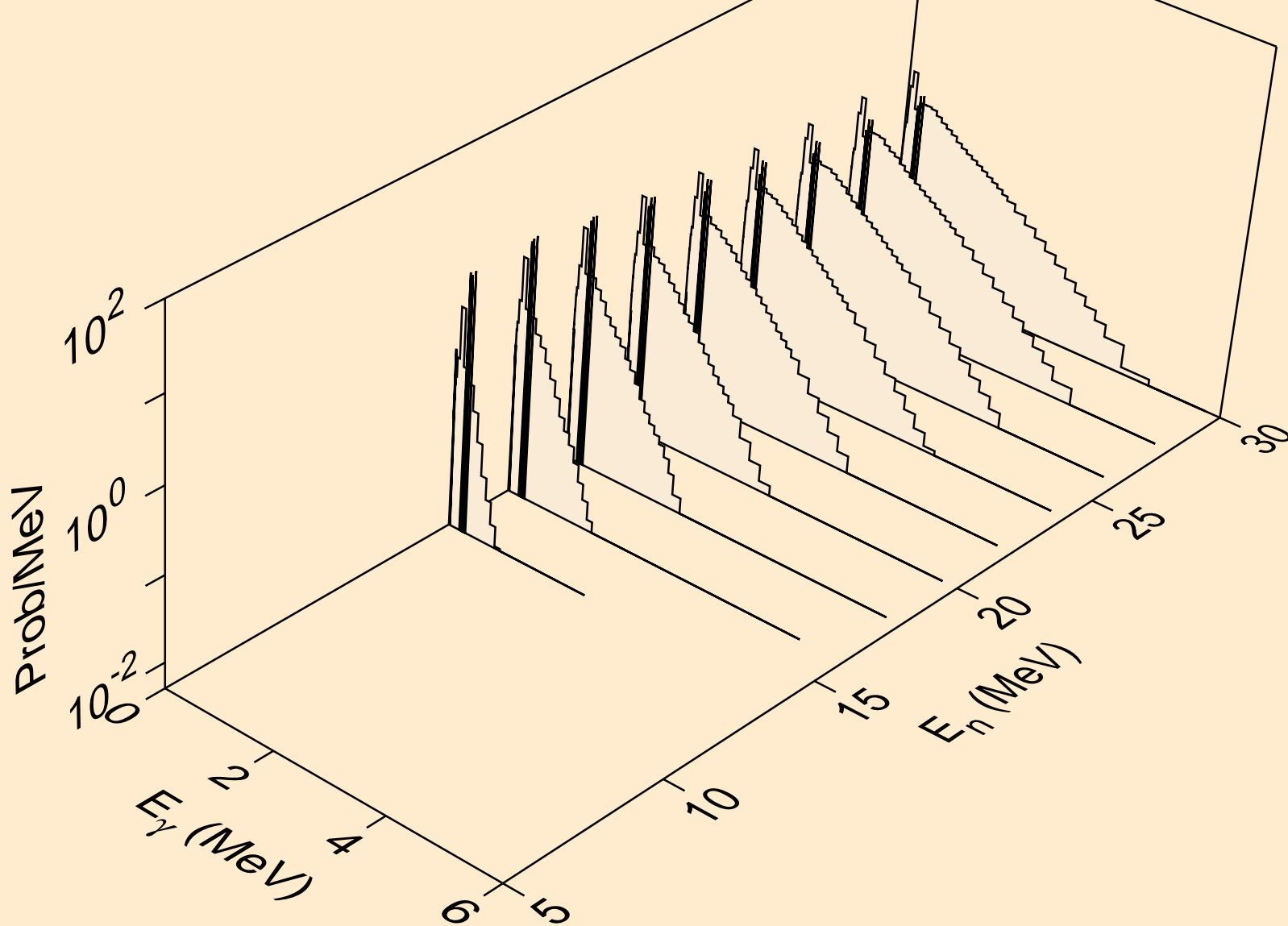
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Photon emission for (n,n\*)2a



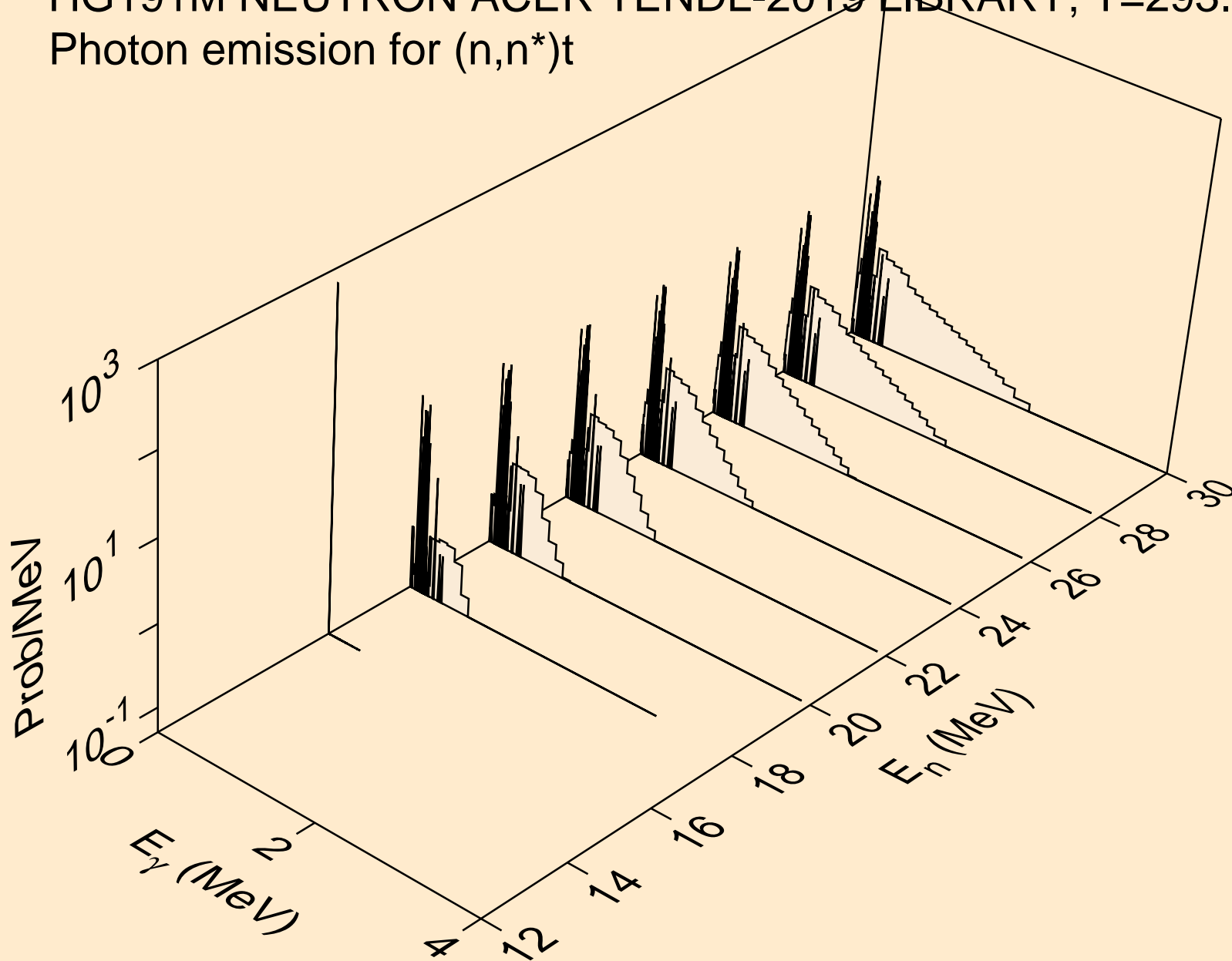
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Photon emission for (n,2n)2a



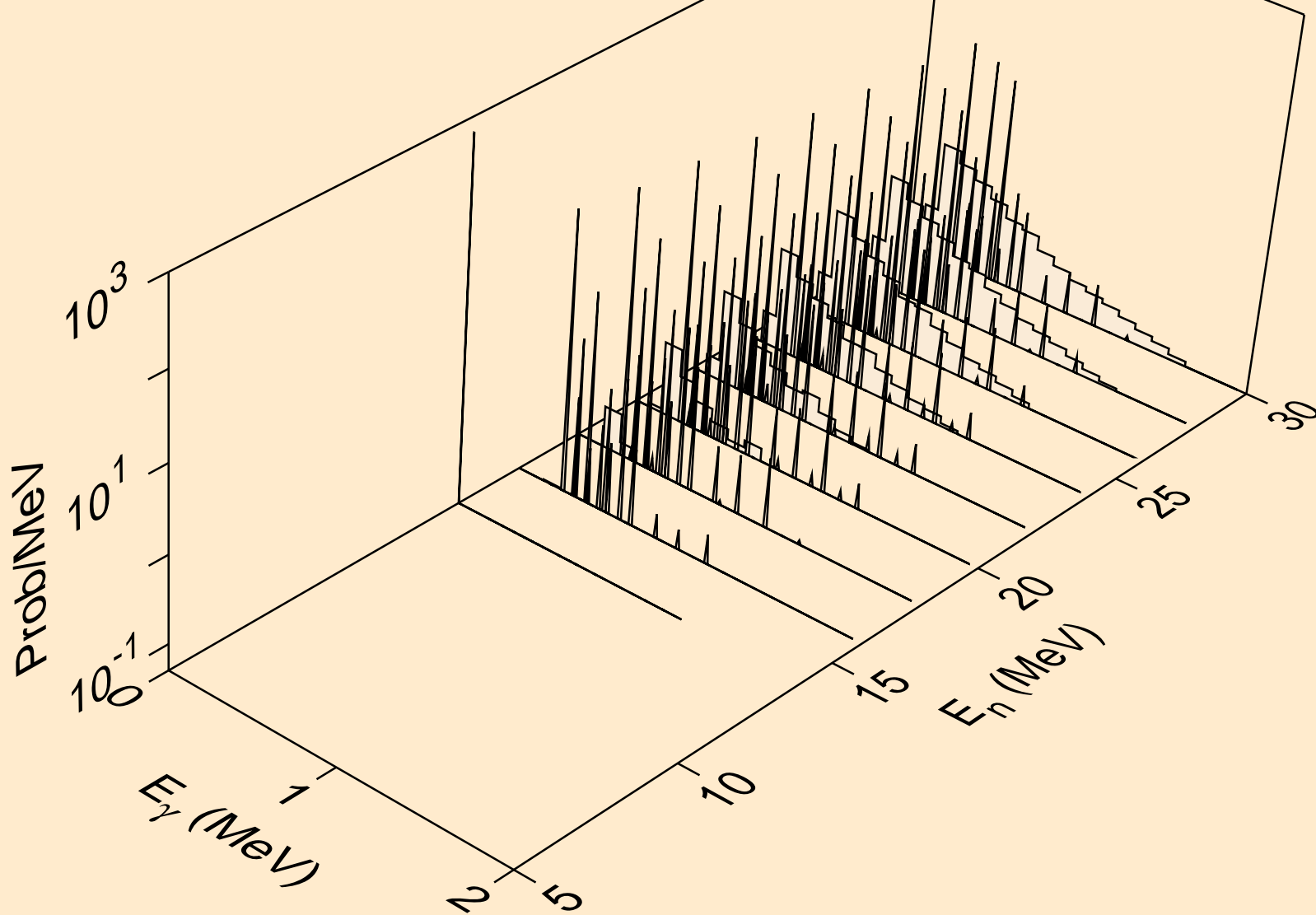
HG191M NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,n\*)d



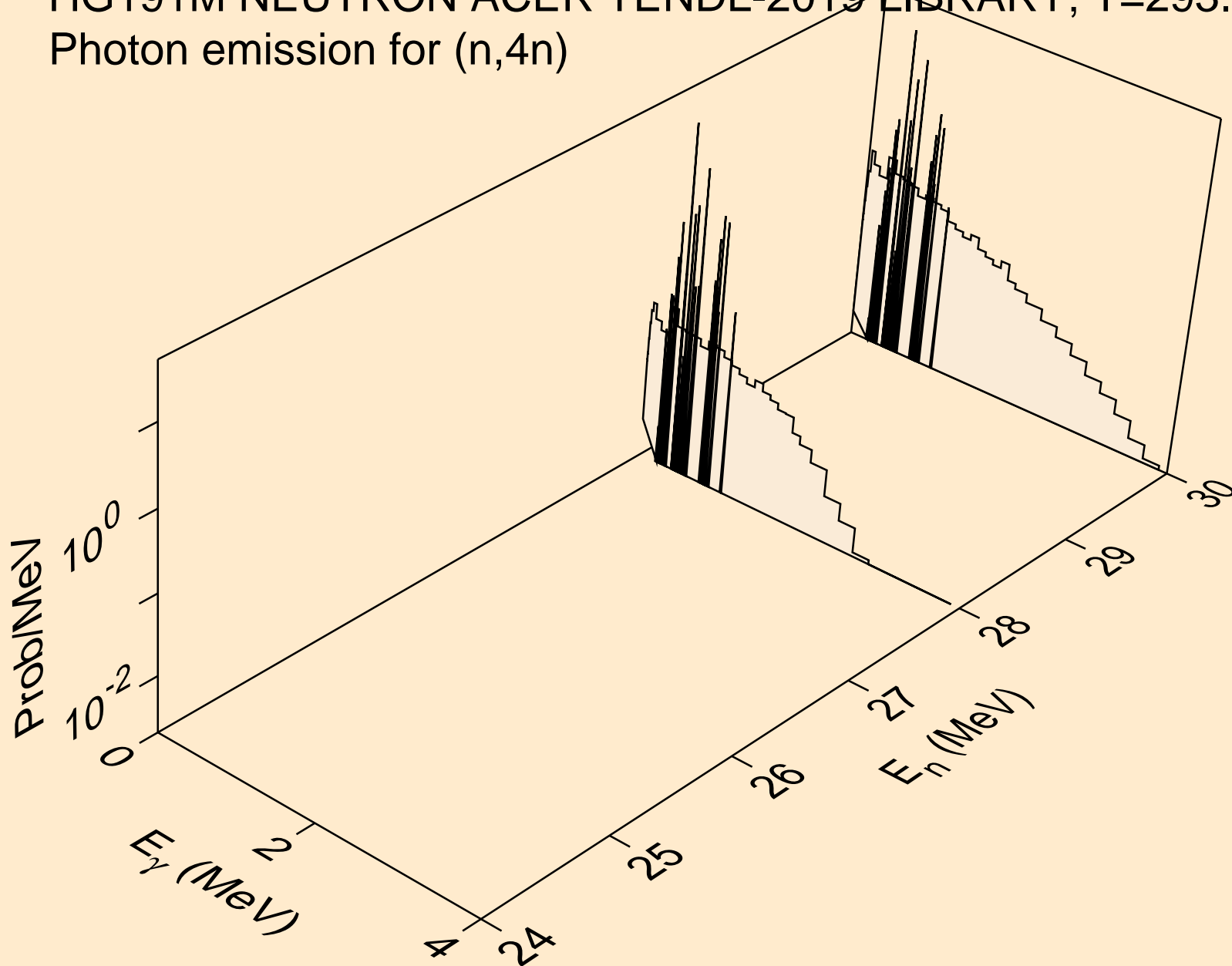
HG191M NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,n\*)t



HG191M NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,n\*)he3

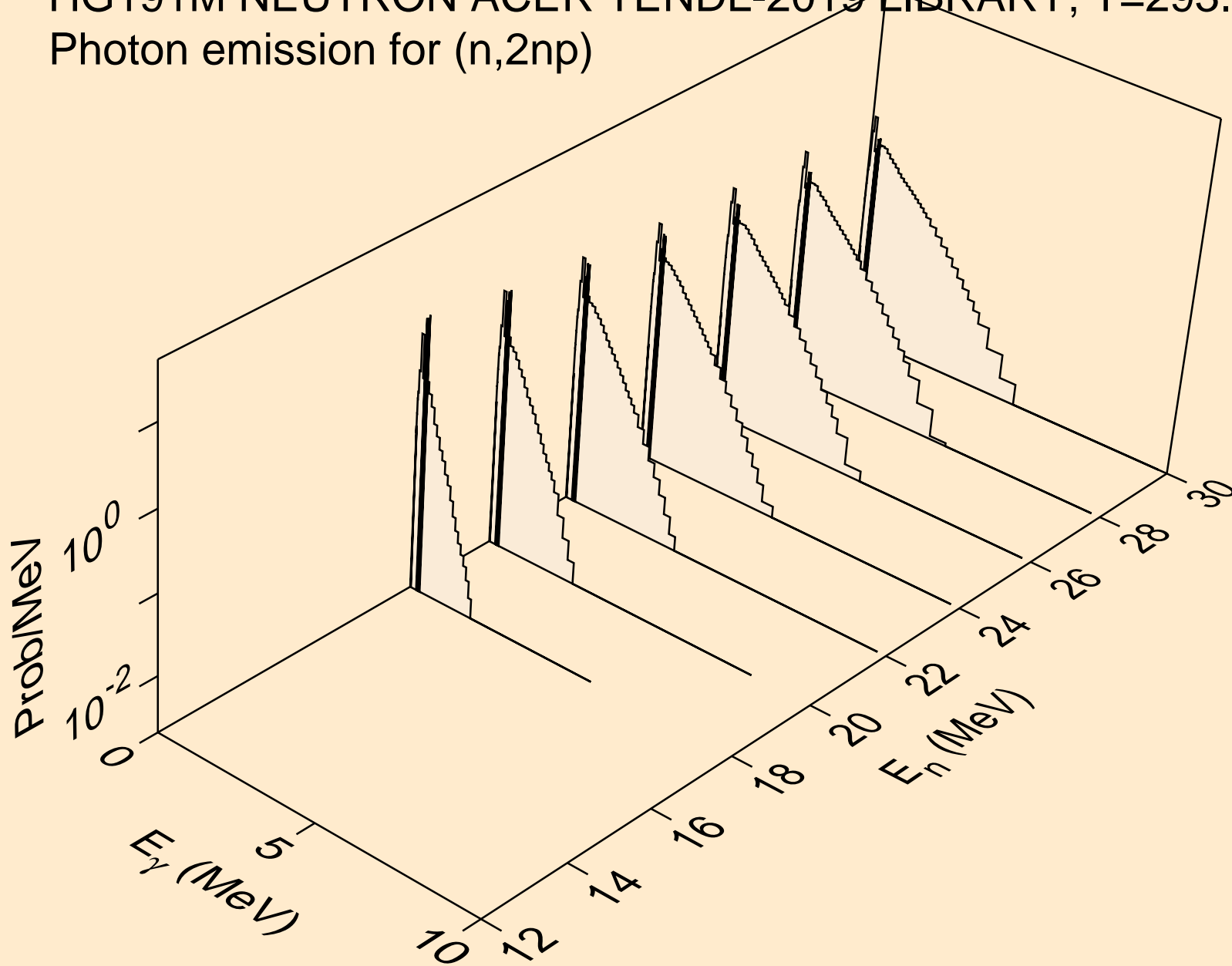


HG191M NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,4n)

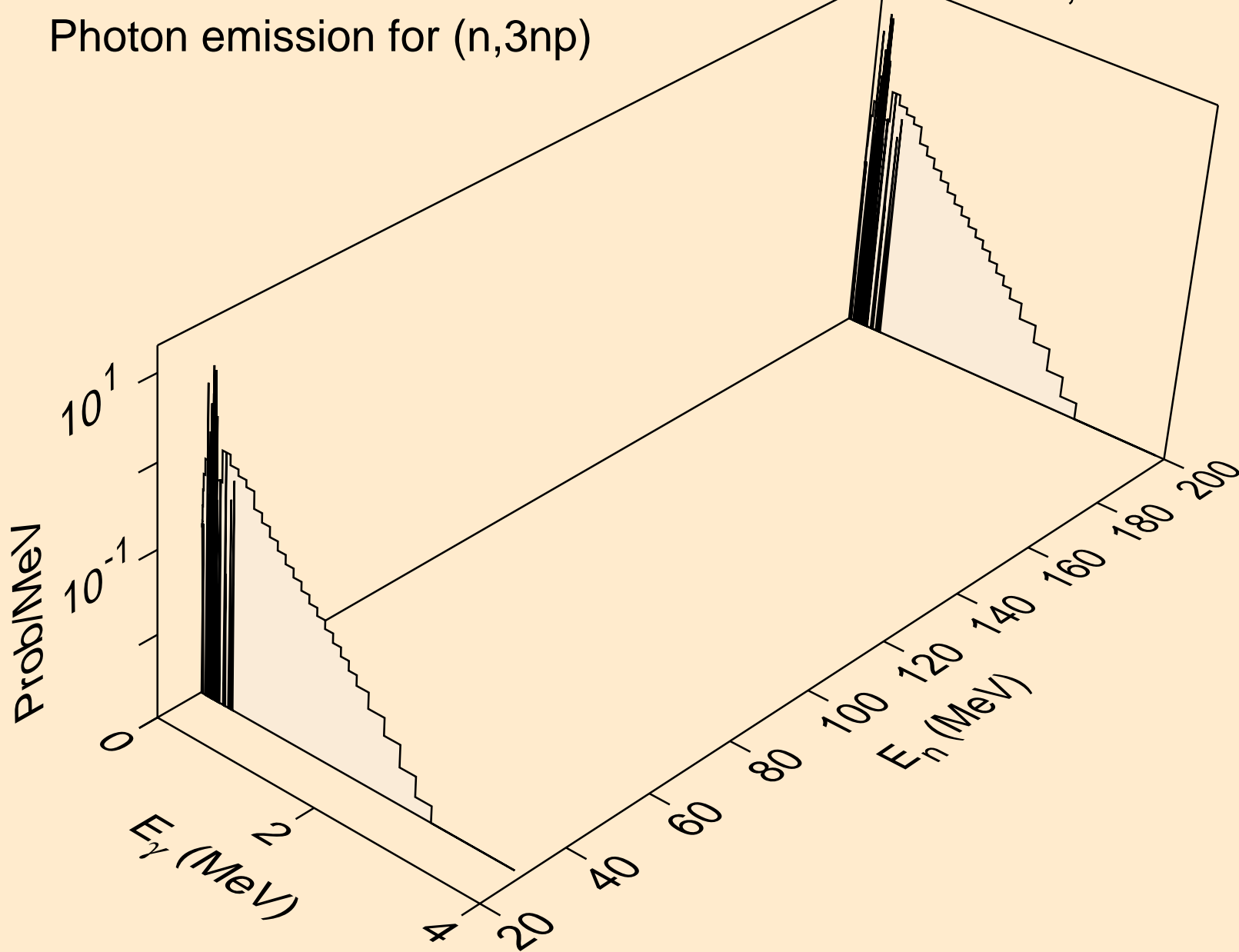




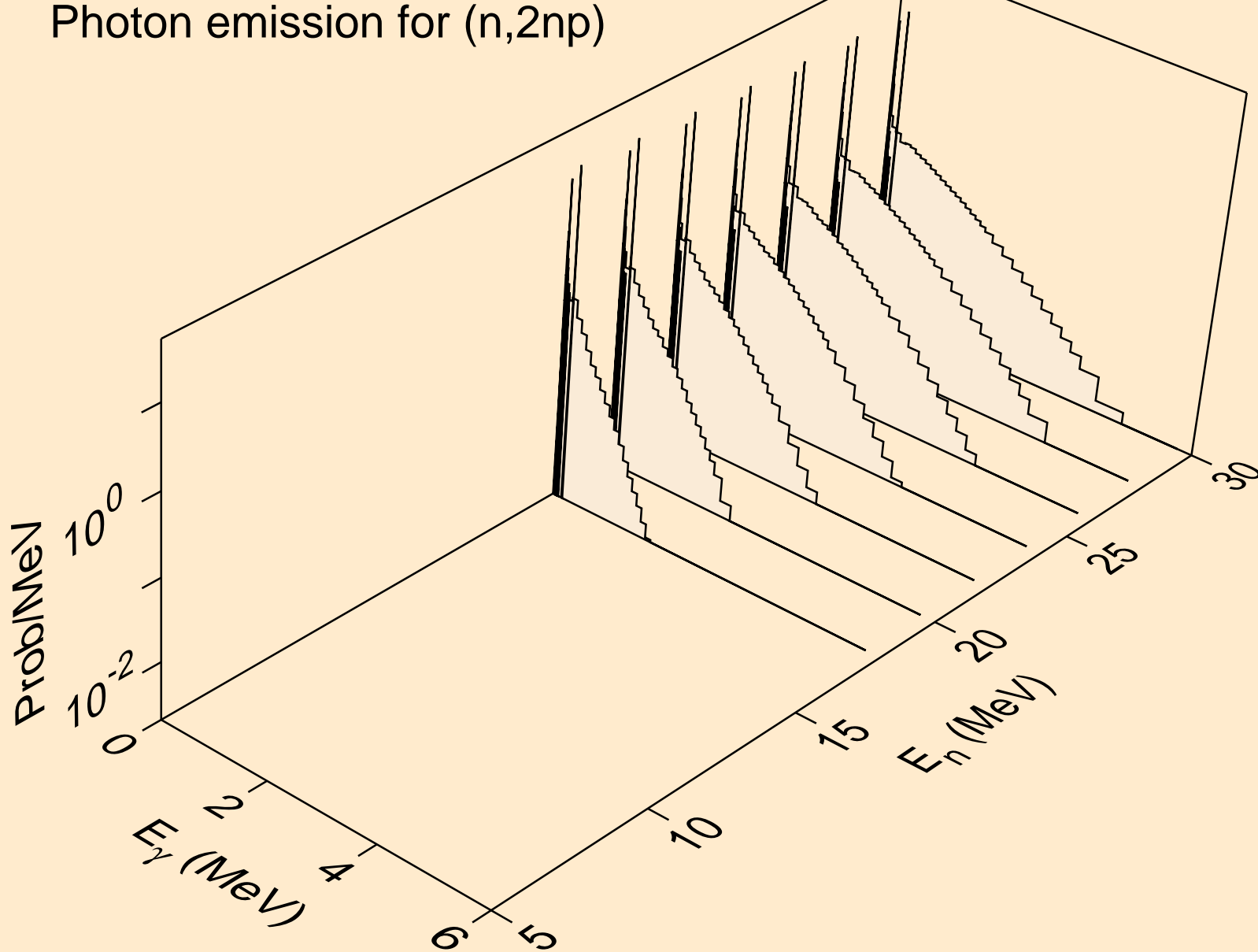
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Photon emission for (n,2np)



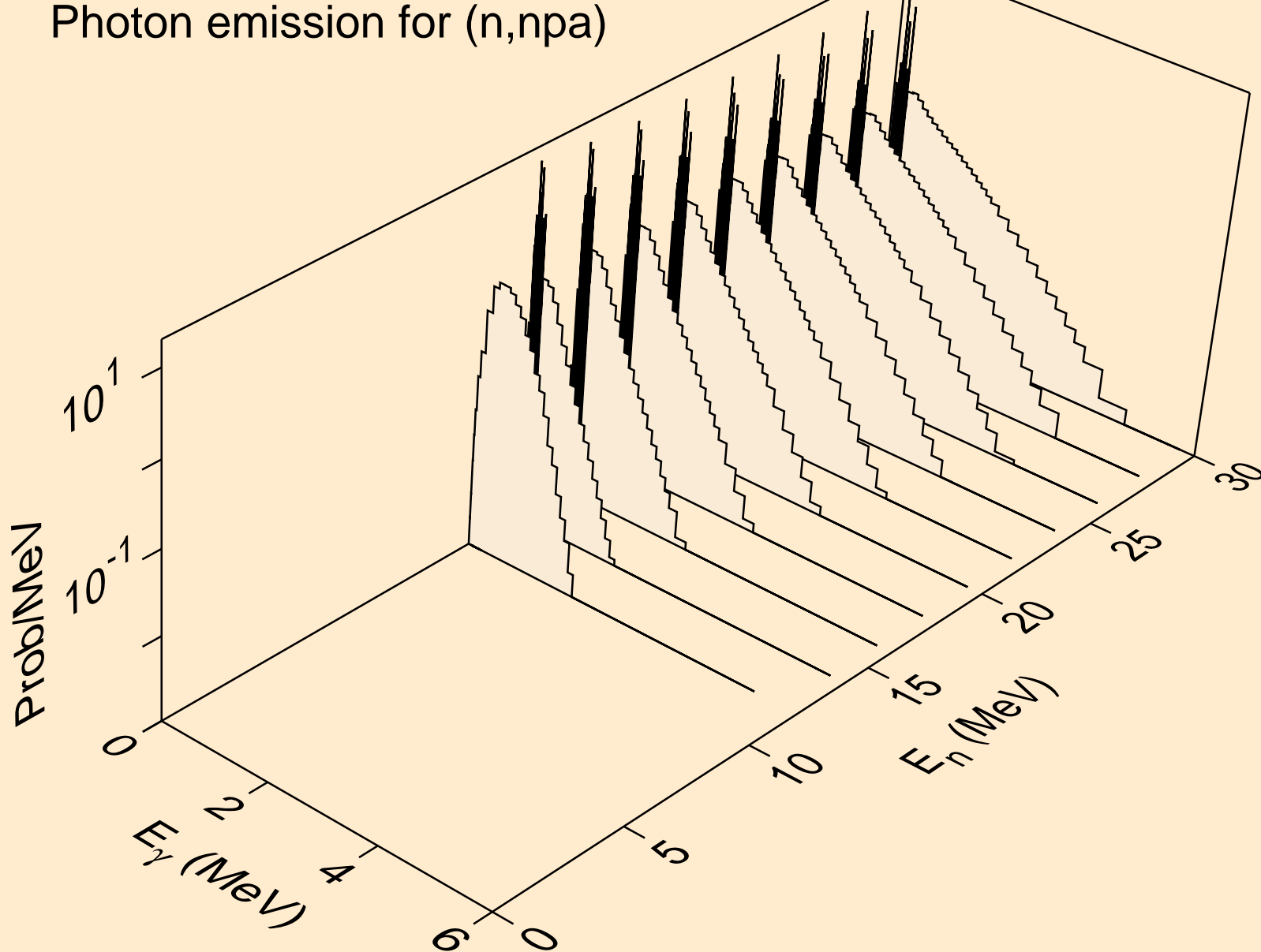
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Photon emission for (n,3np)



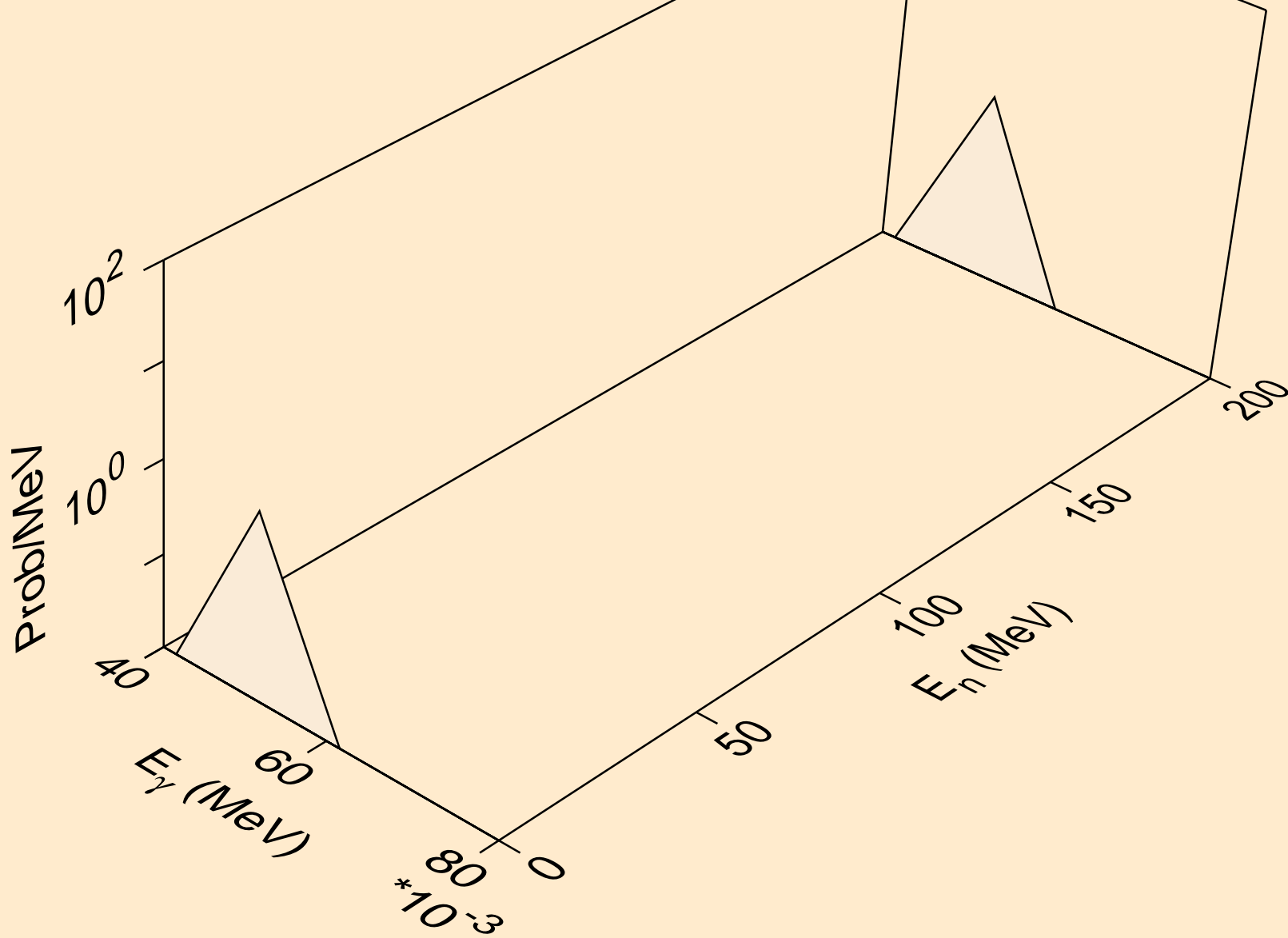
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Photon emission for (n,2np)



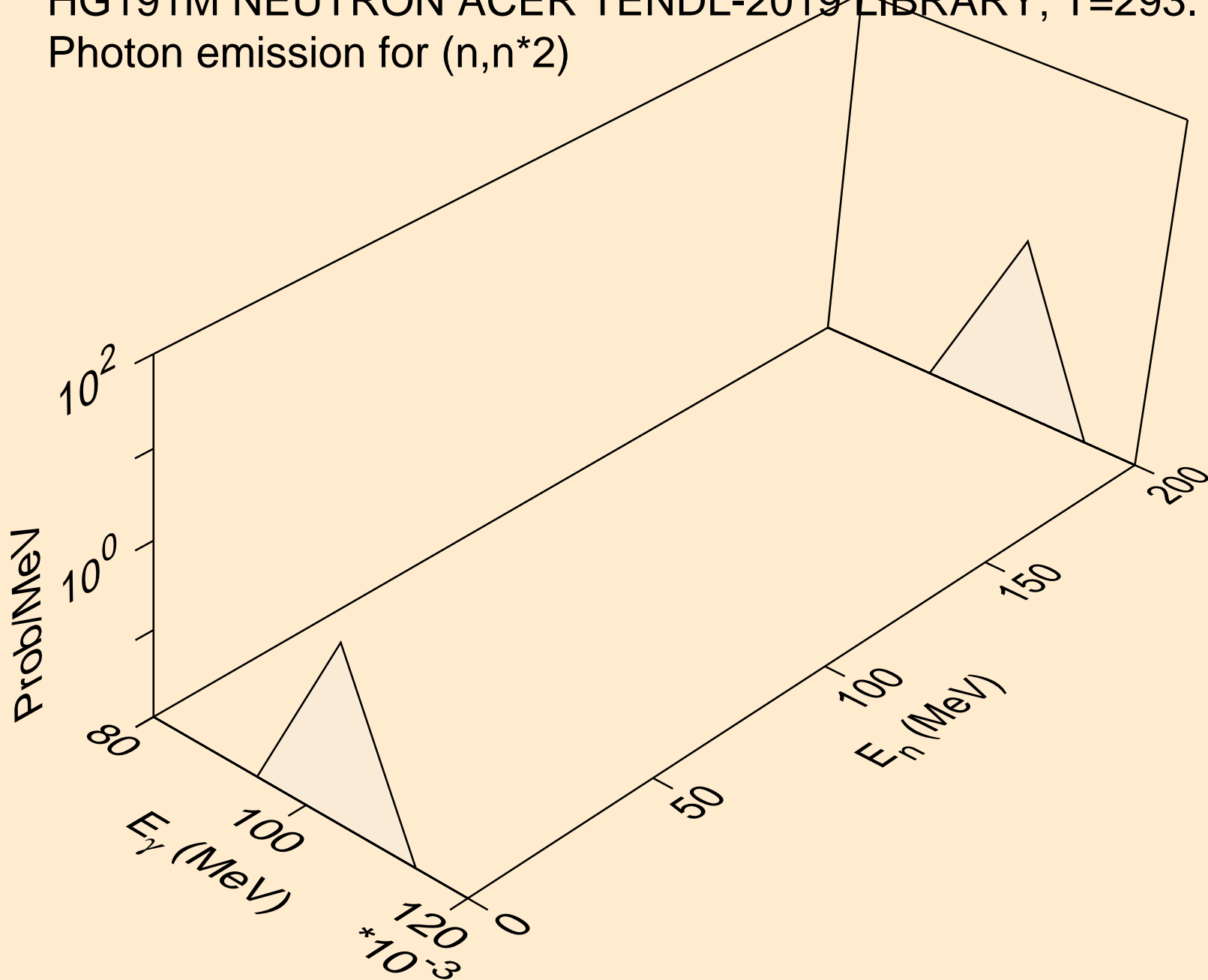
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Photon emission for (n,npa)



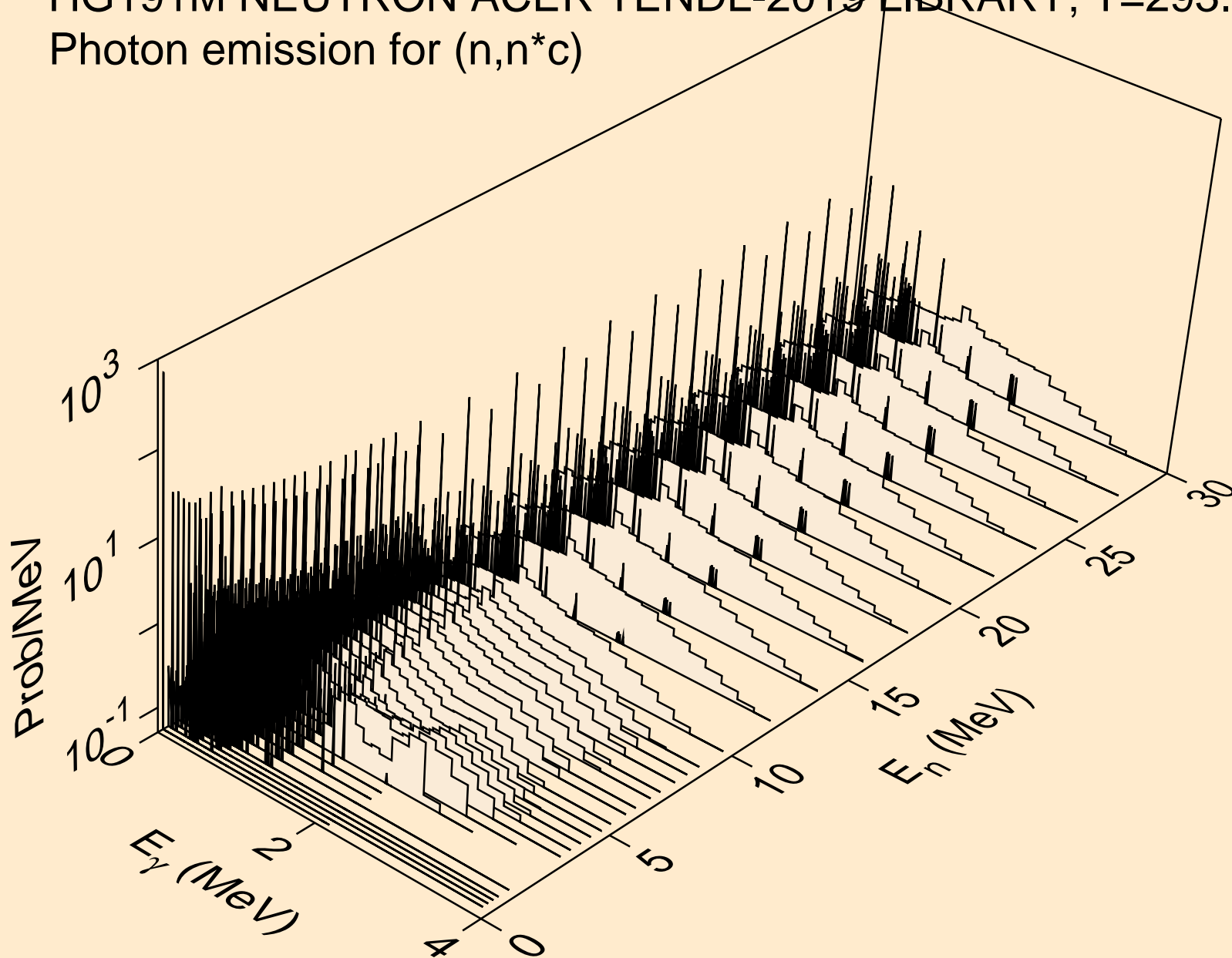
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Photon emission for (n,n\*1)



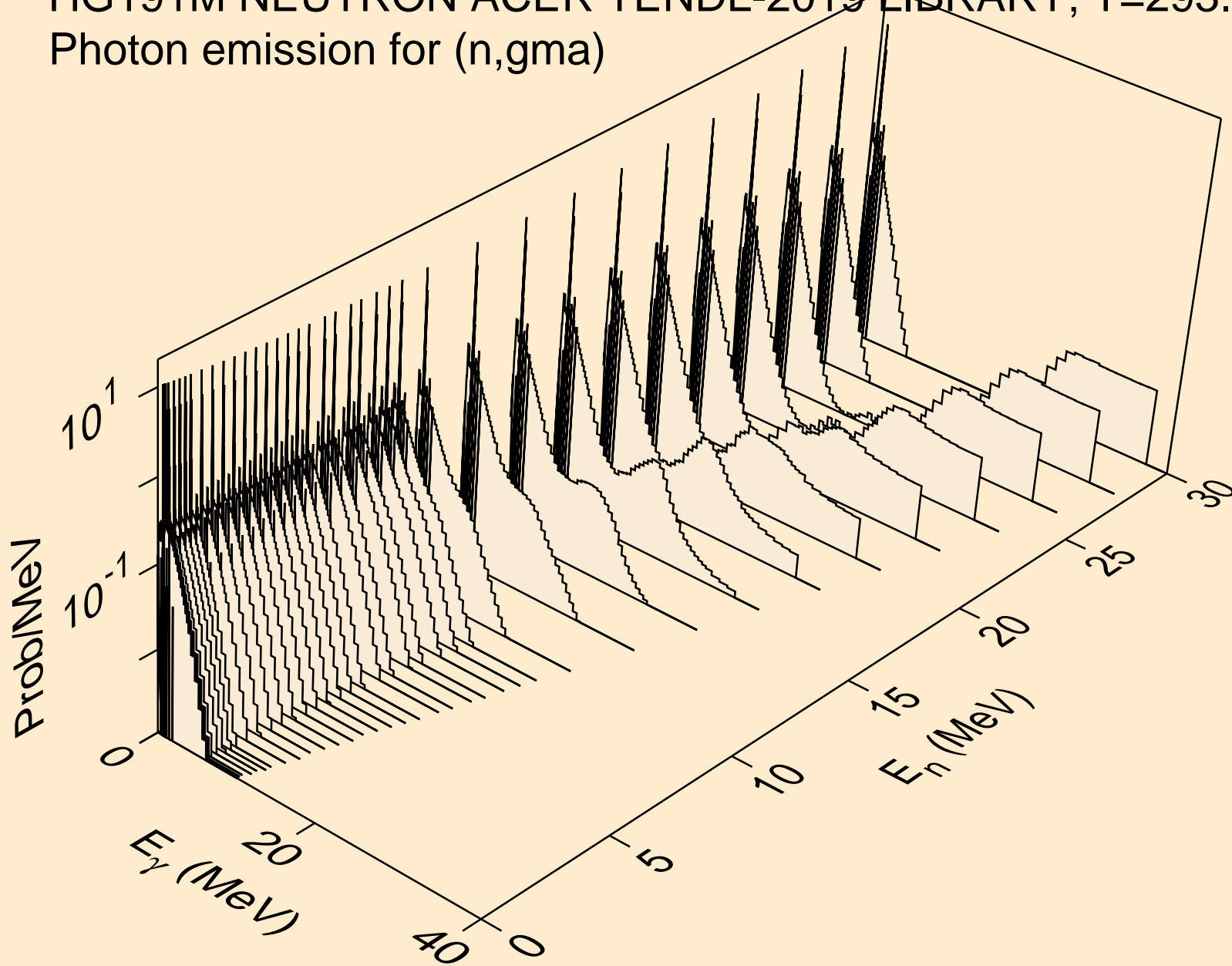
HG191M NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,n\*2)



HG191M NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,n\*c)

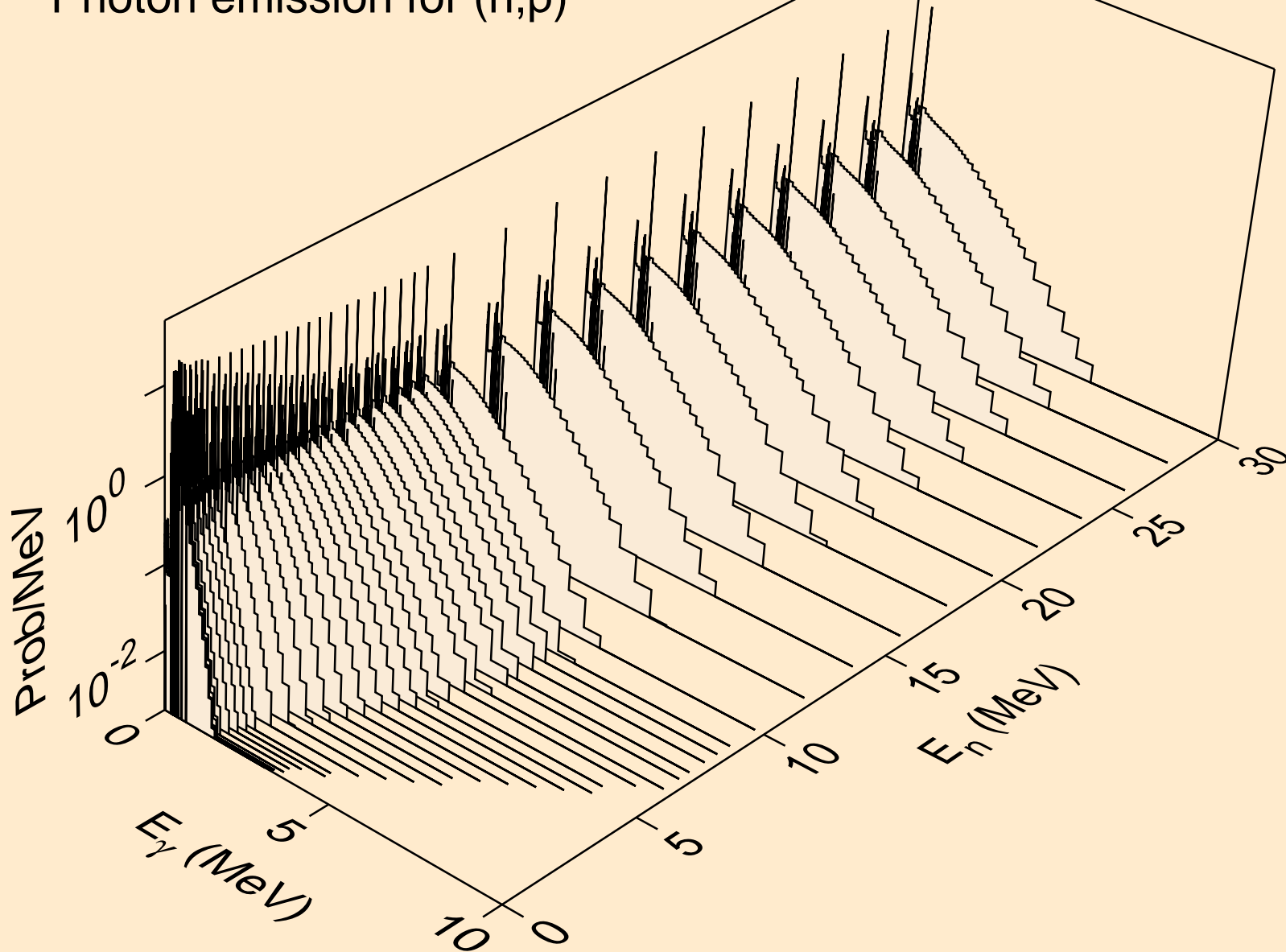


HG191M NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,gma)

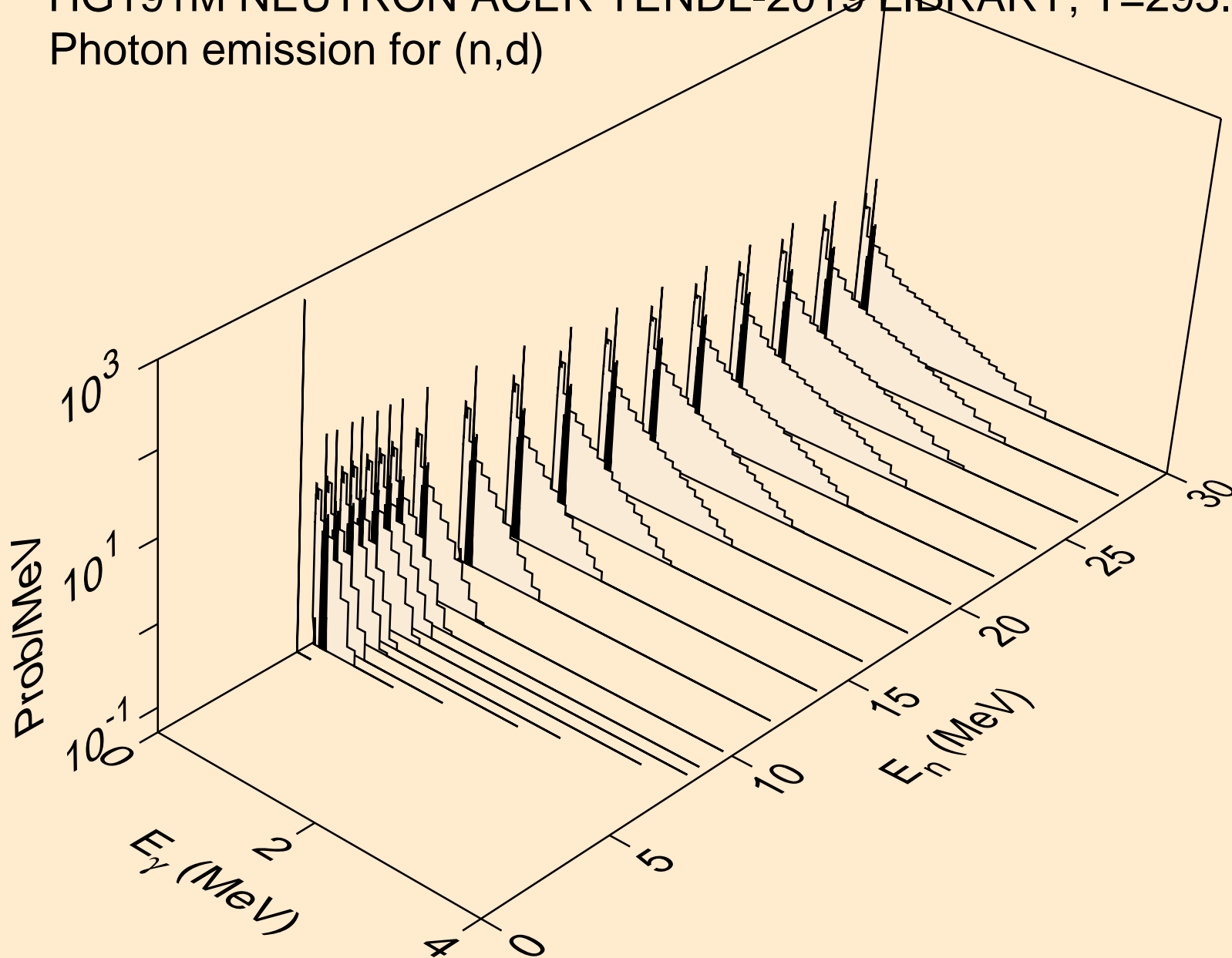




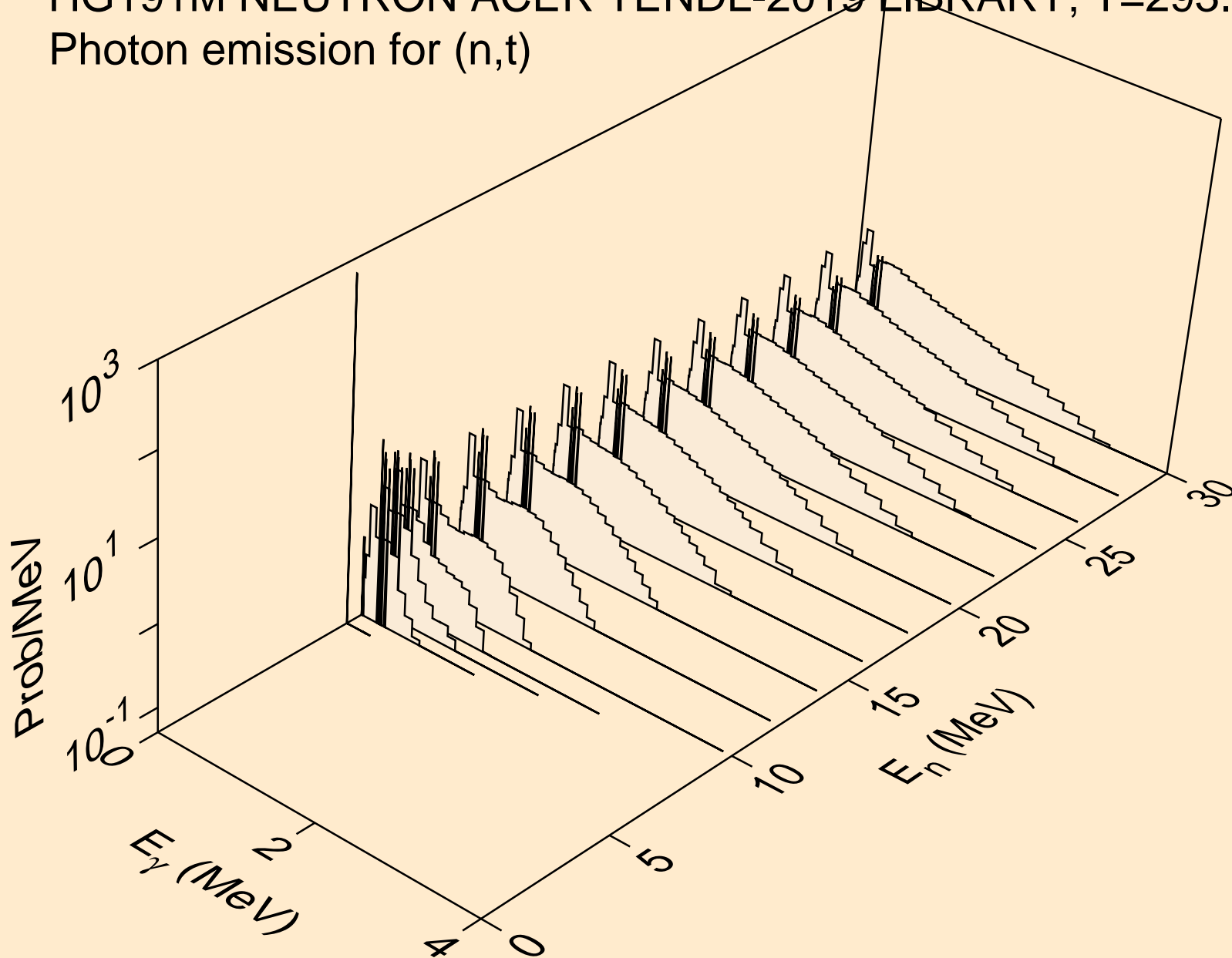
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Photon emission for (n,p)



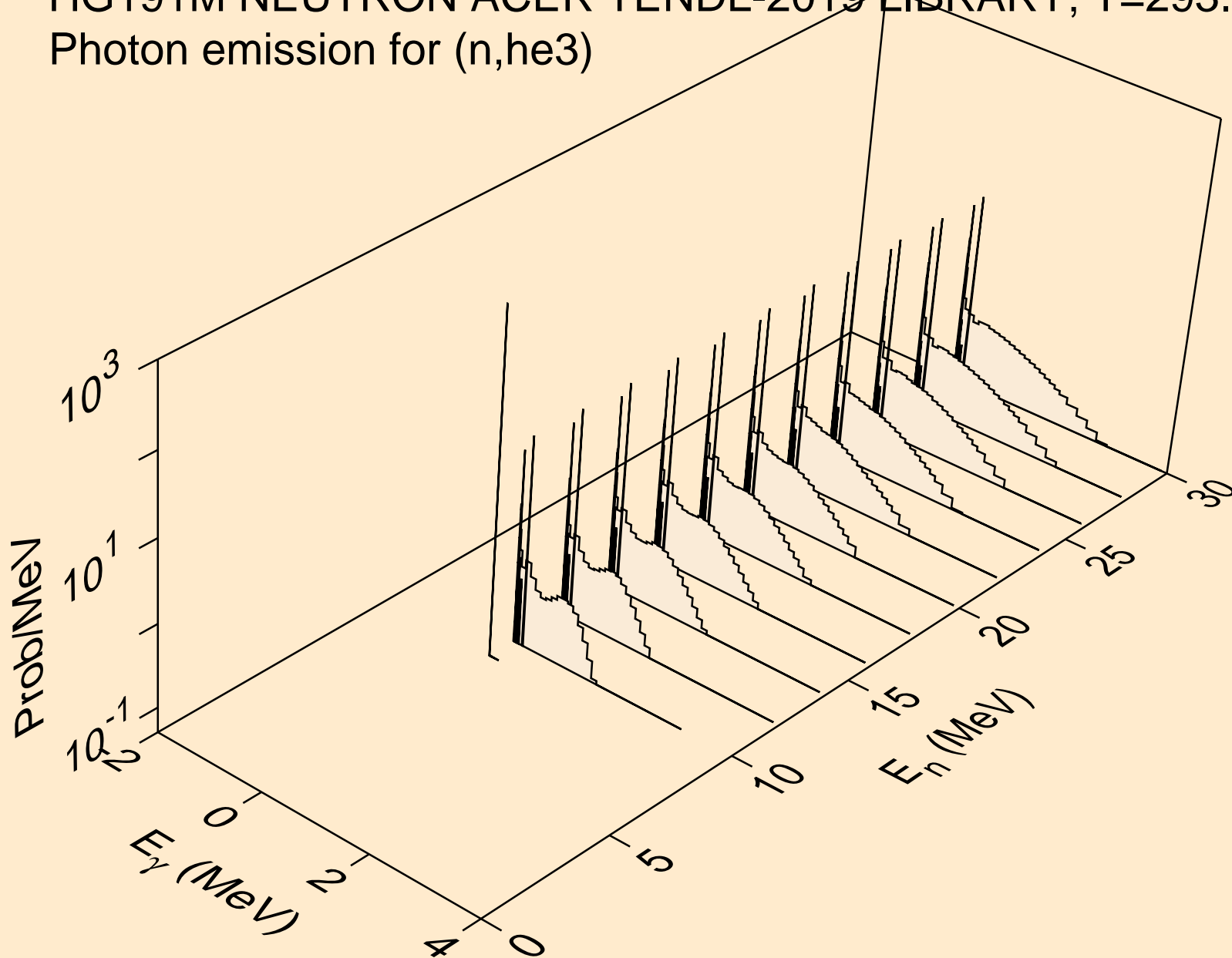
HG191M NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,d)



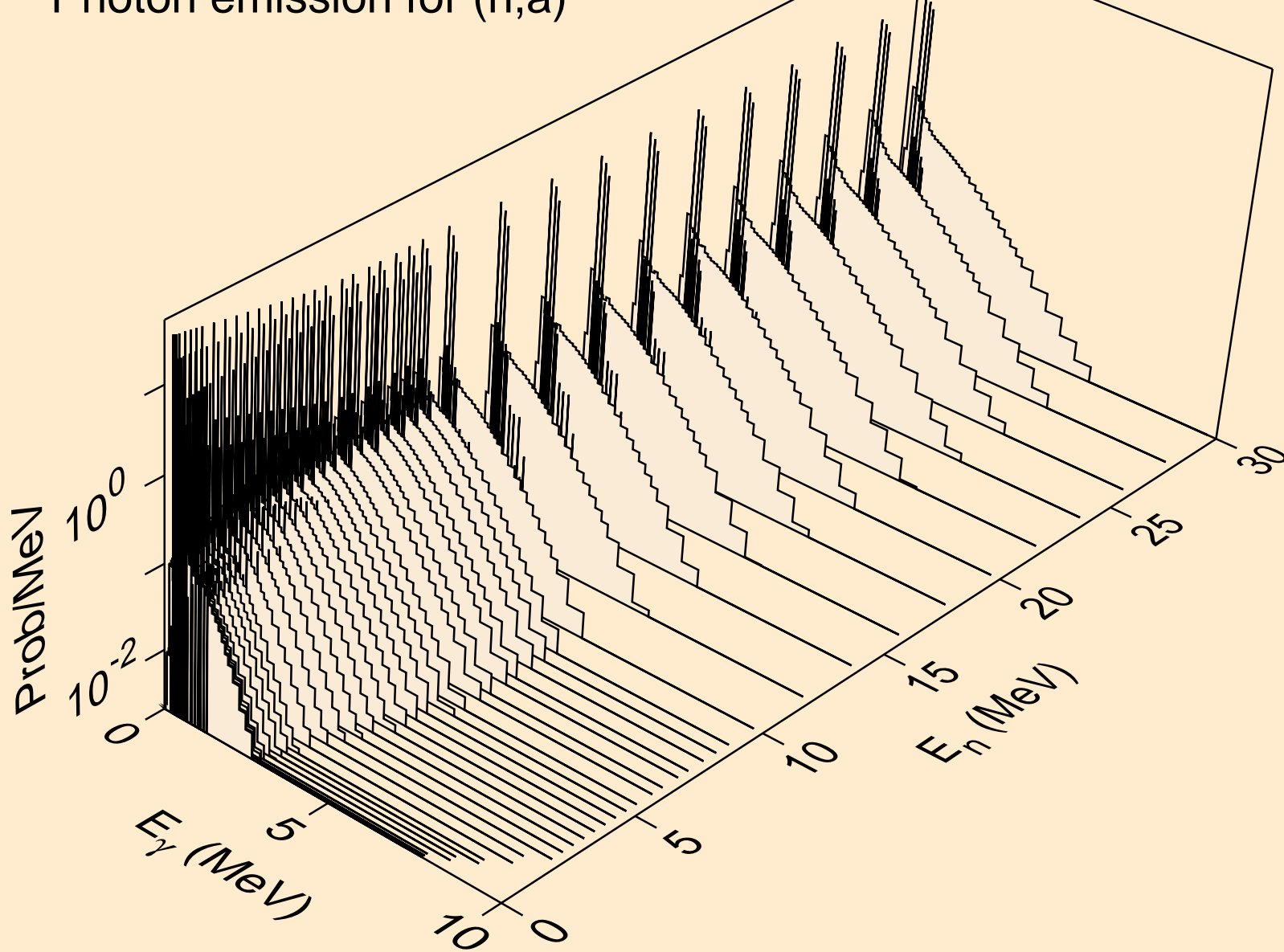
HG191M NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,t)



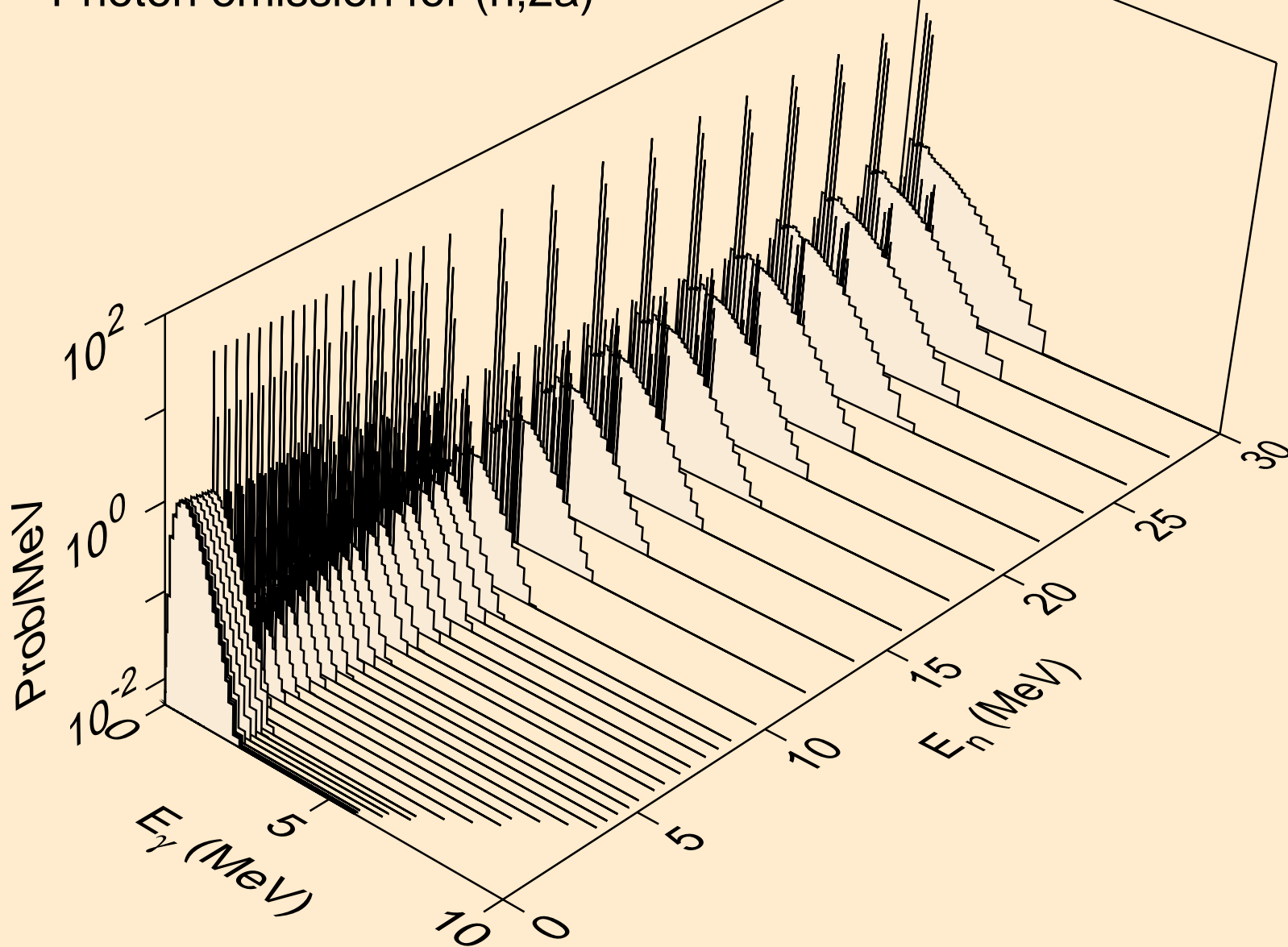
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Photon emission for (n,he3)



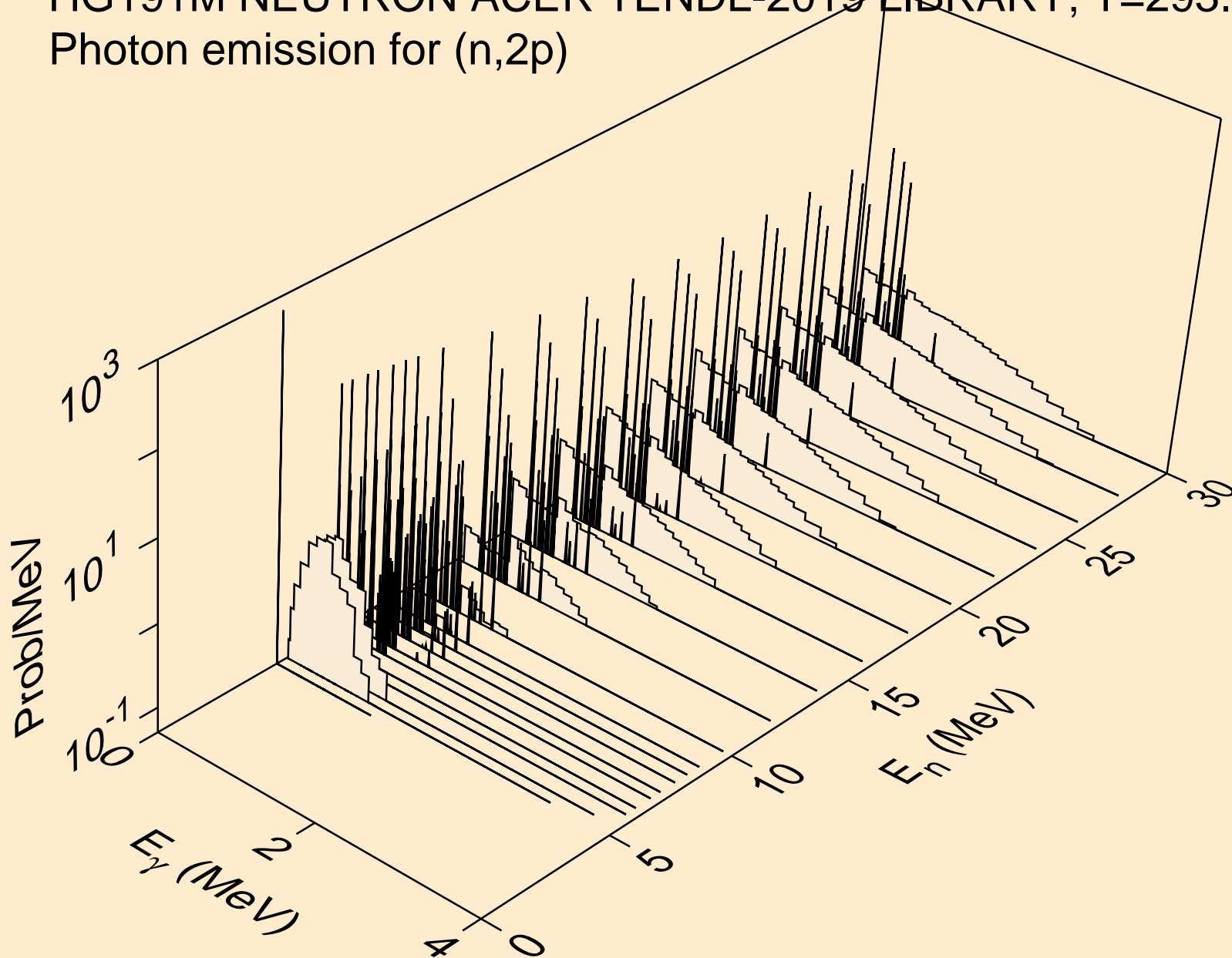
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Photon emission for (n,a)



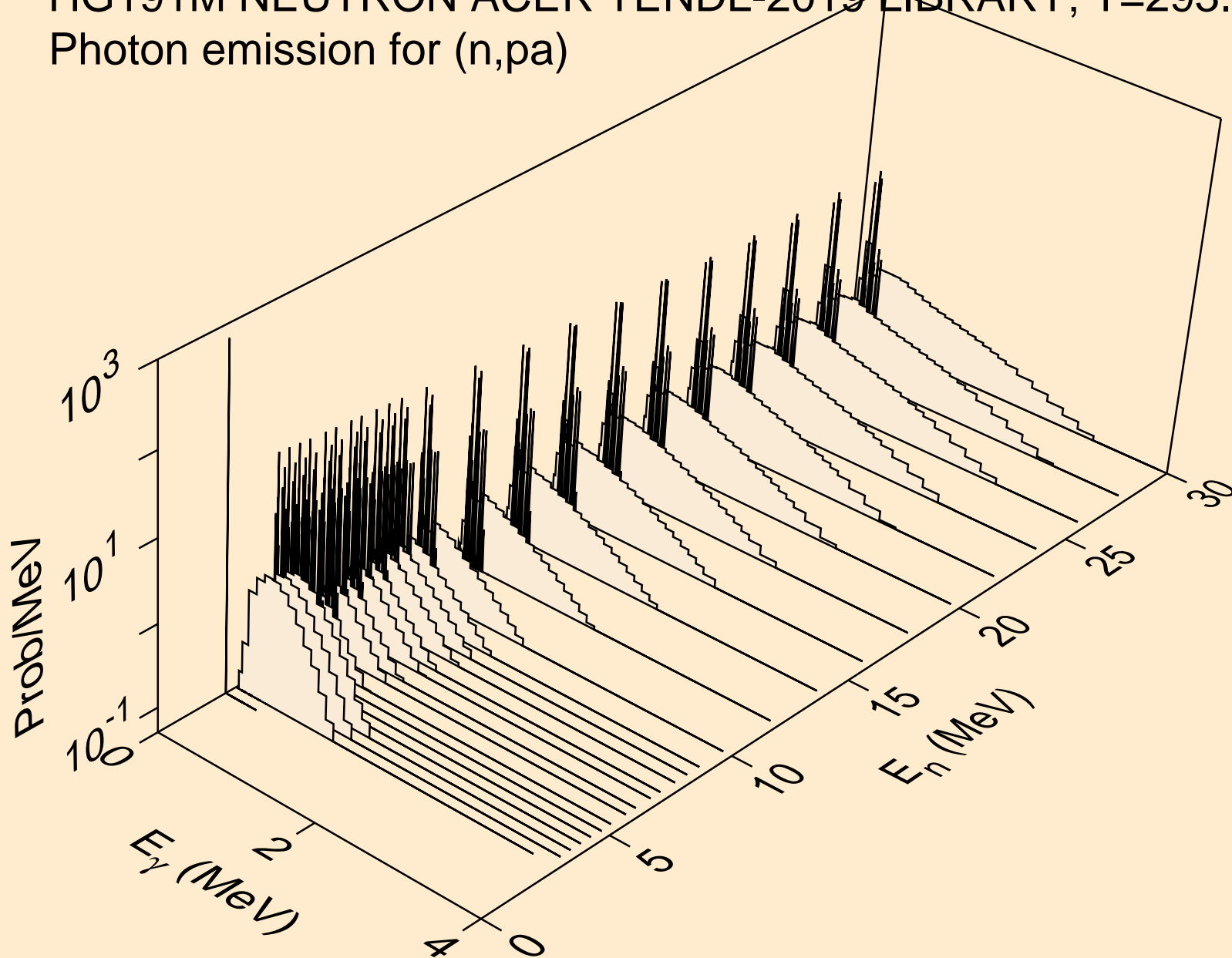
HG191M NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,2a)



HG191M NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,2p)

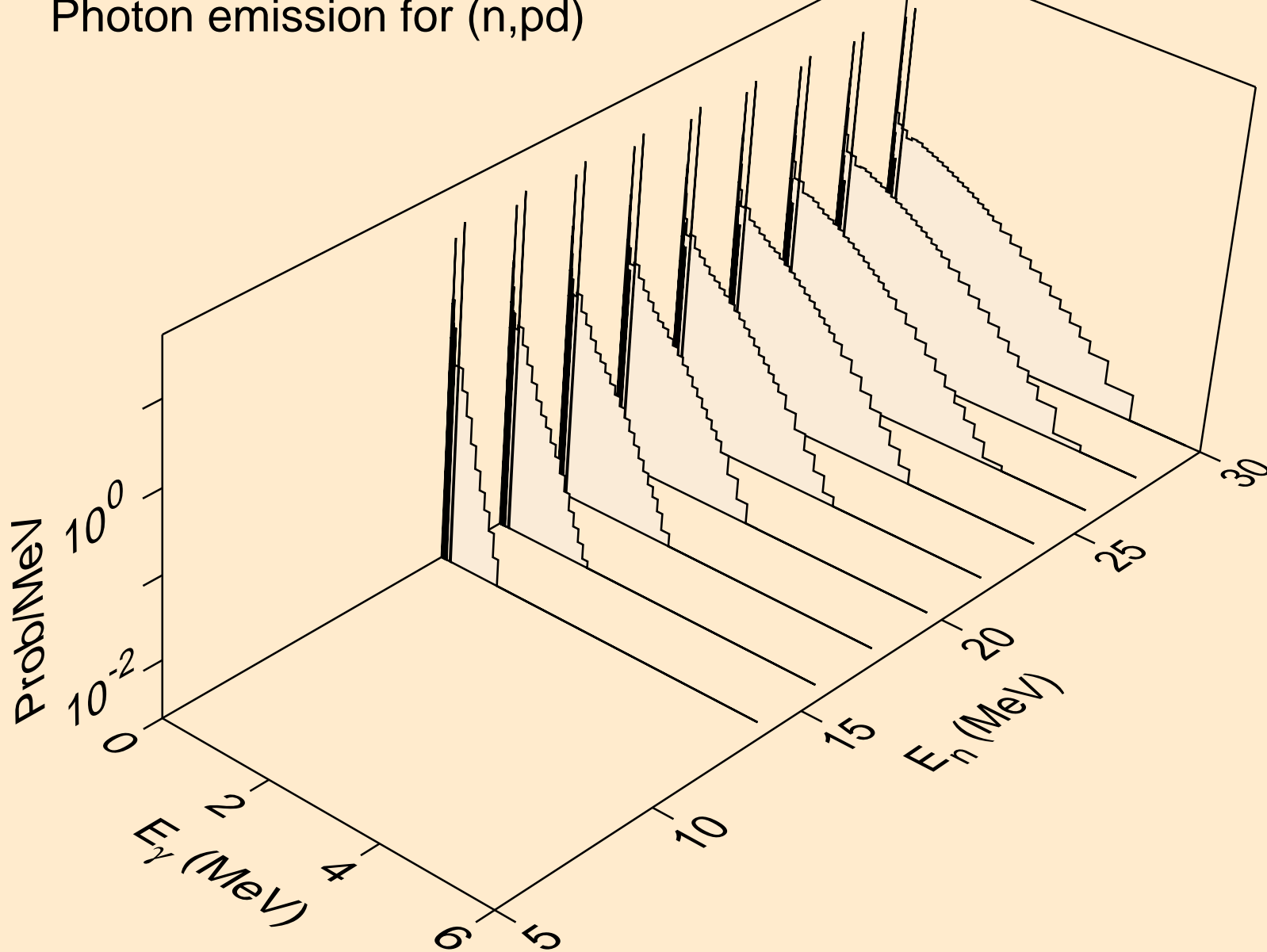


HG191M NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,p $\alpha$ )

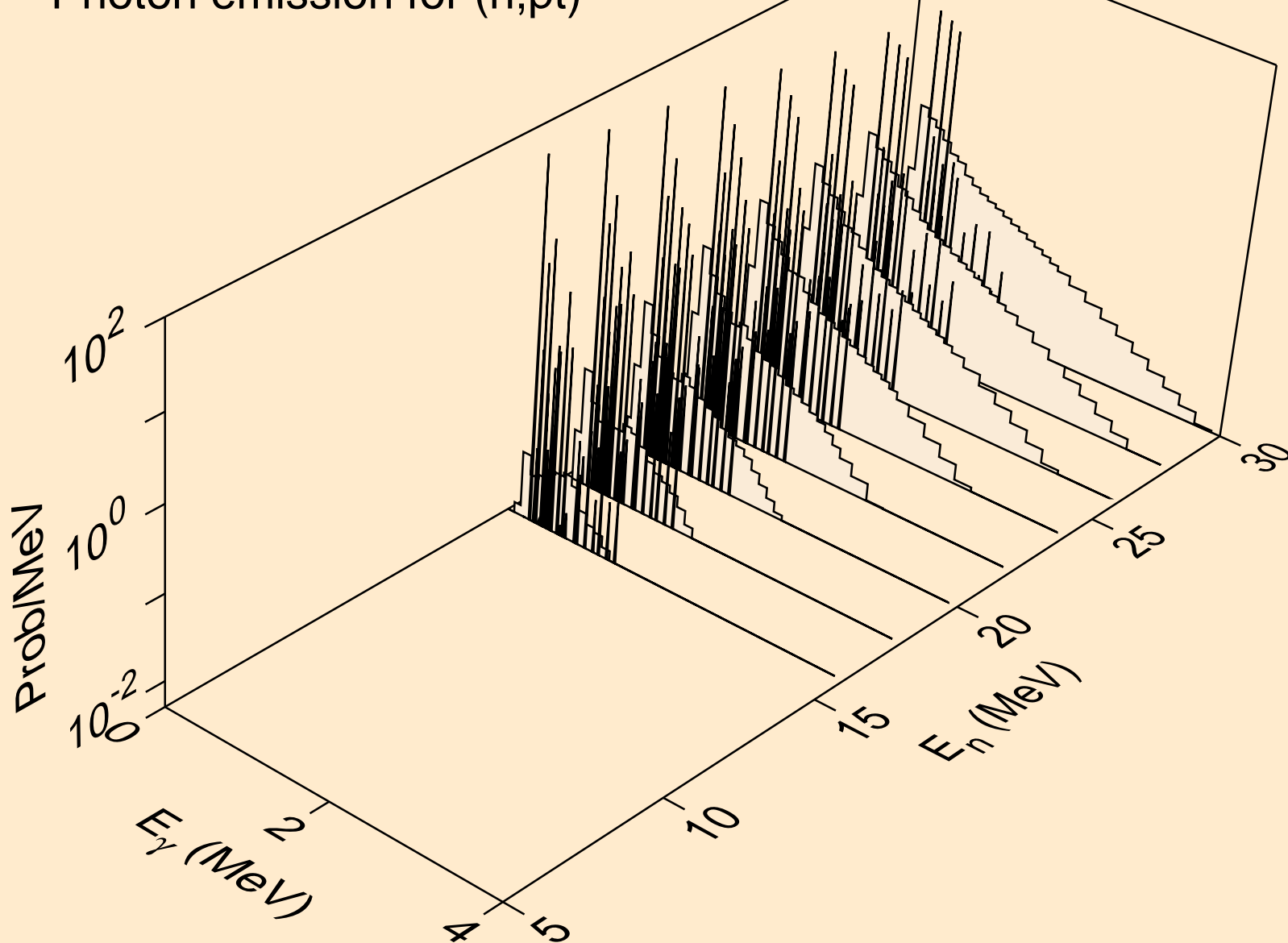




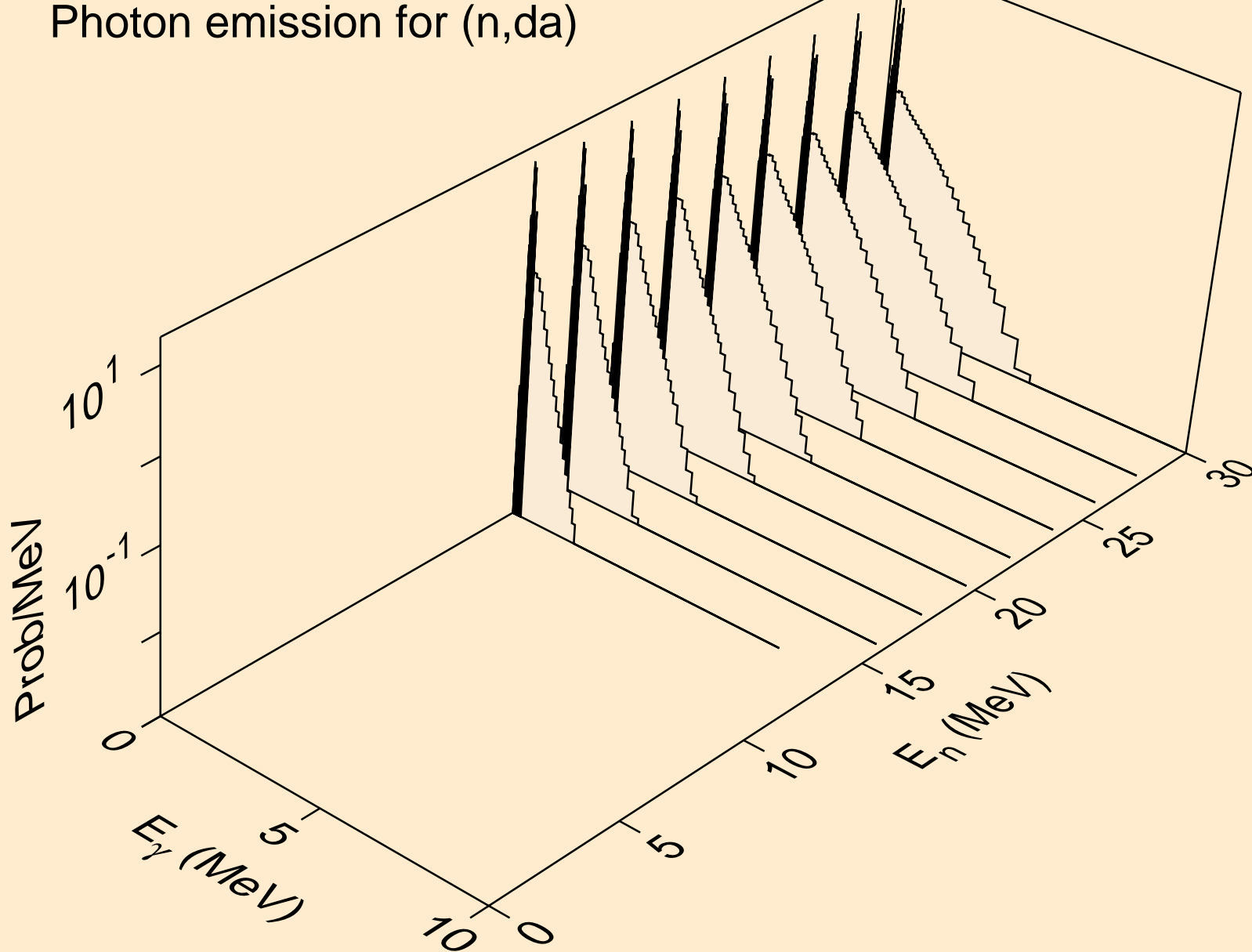
HG191M NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,pd)



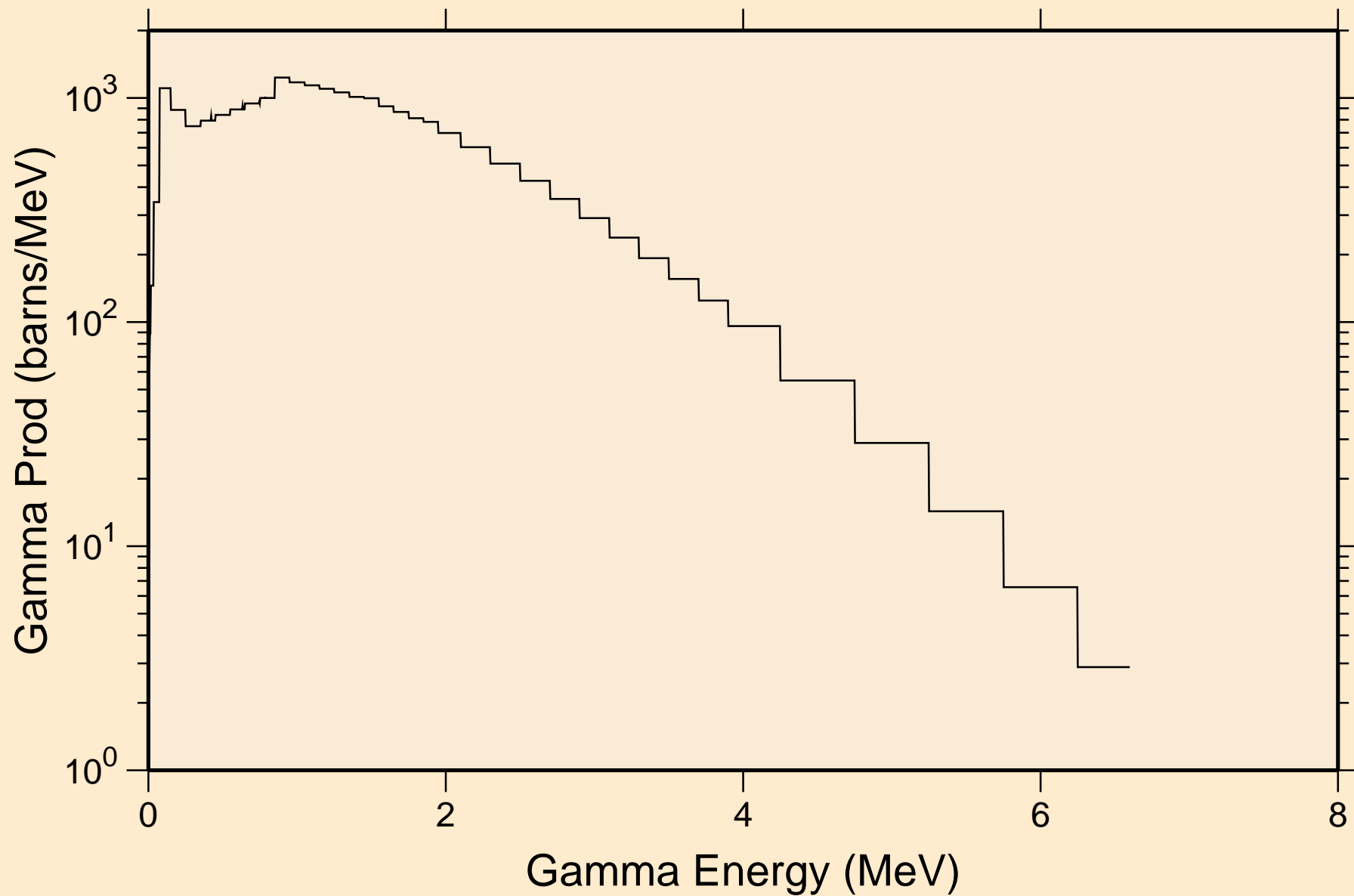
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Photon emission for (n,pt)



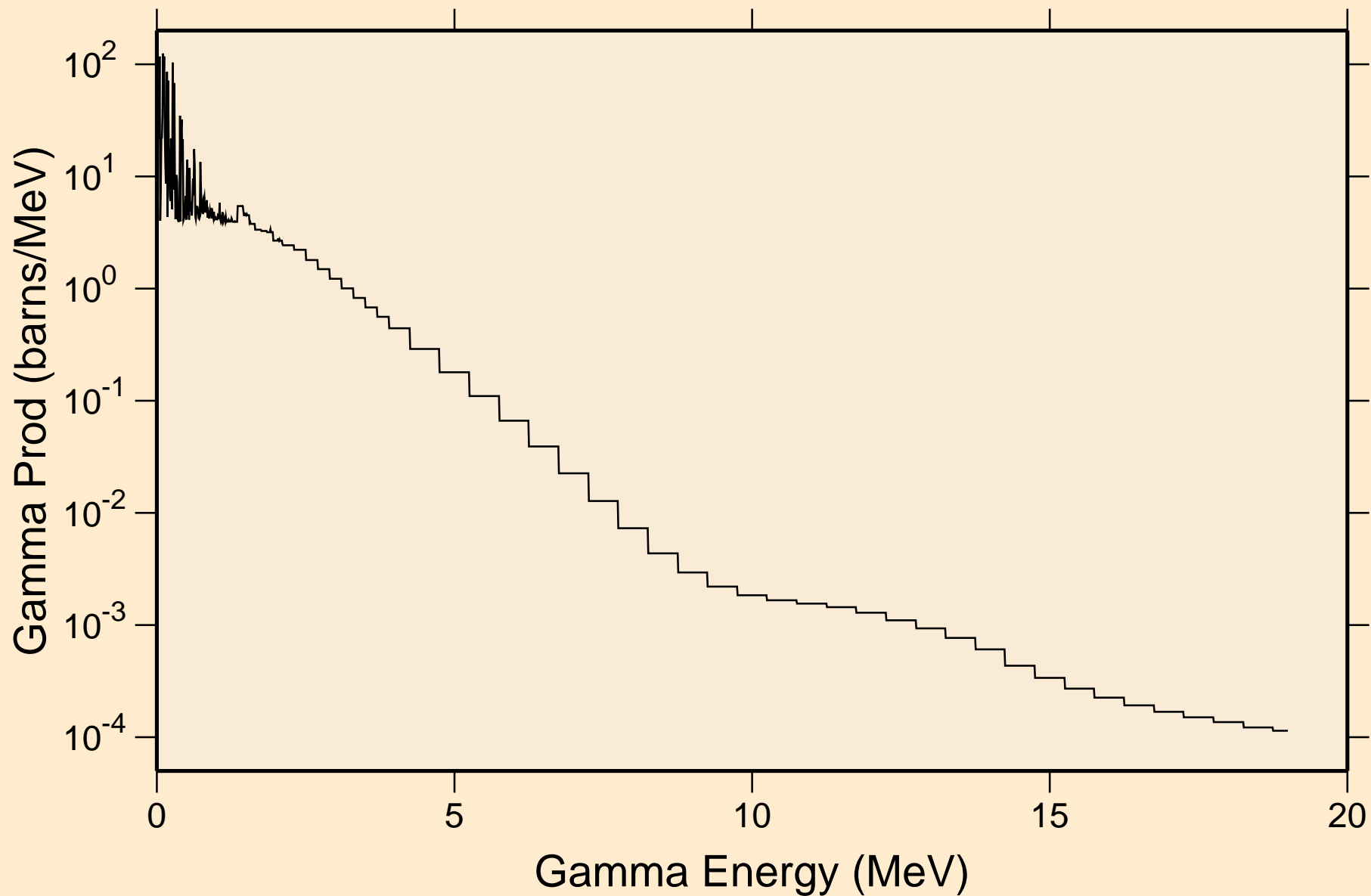
HG191M NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,da)



HG191M NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
thermal capture photon spectrum

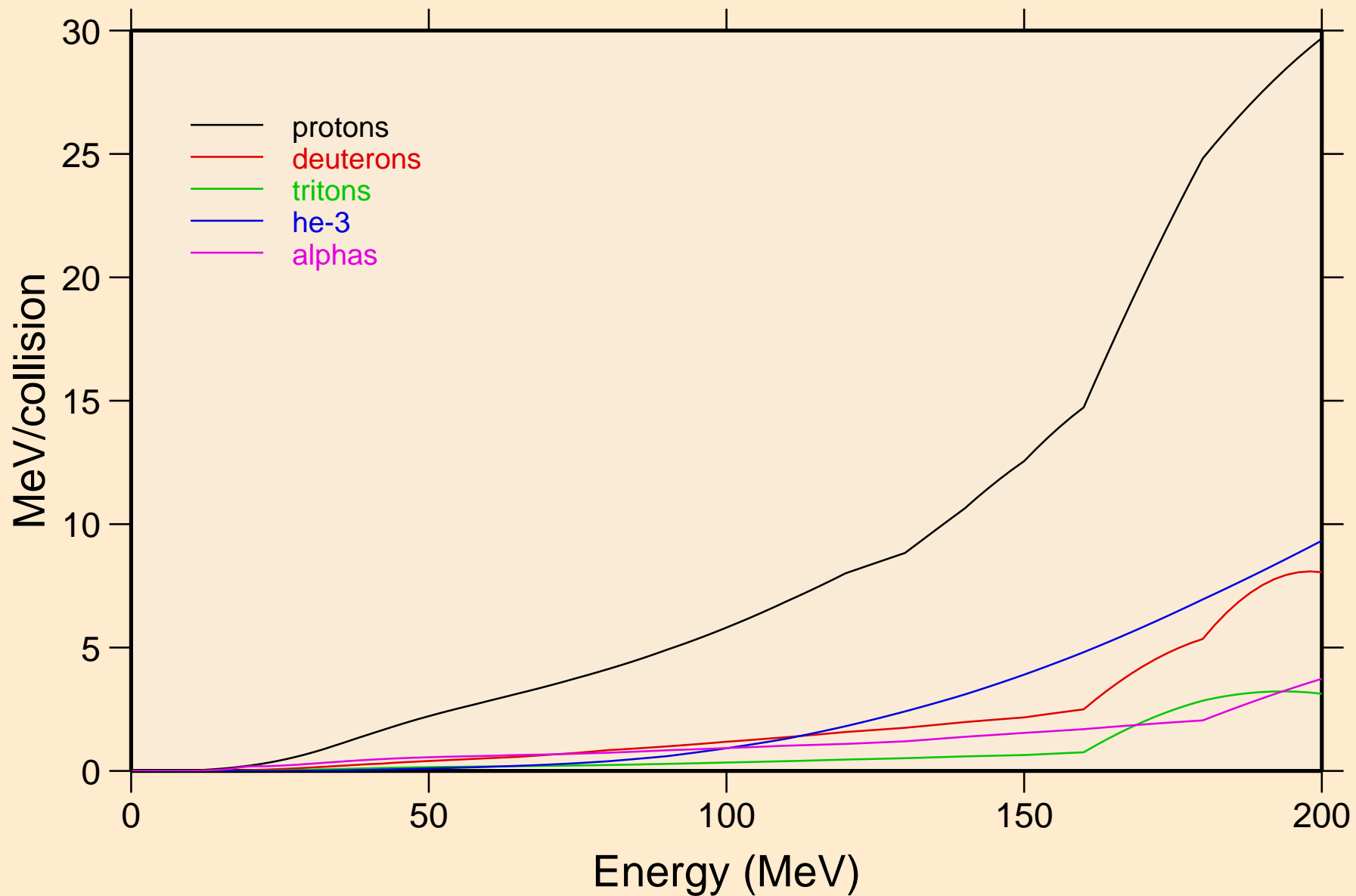


HG191M NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
14 MeV photon spectrum

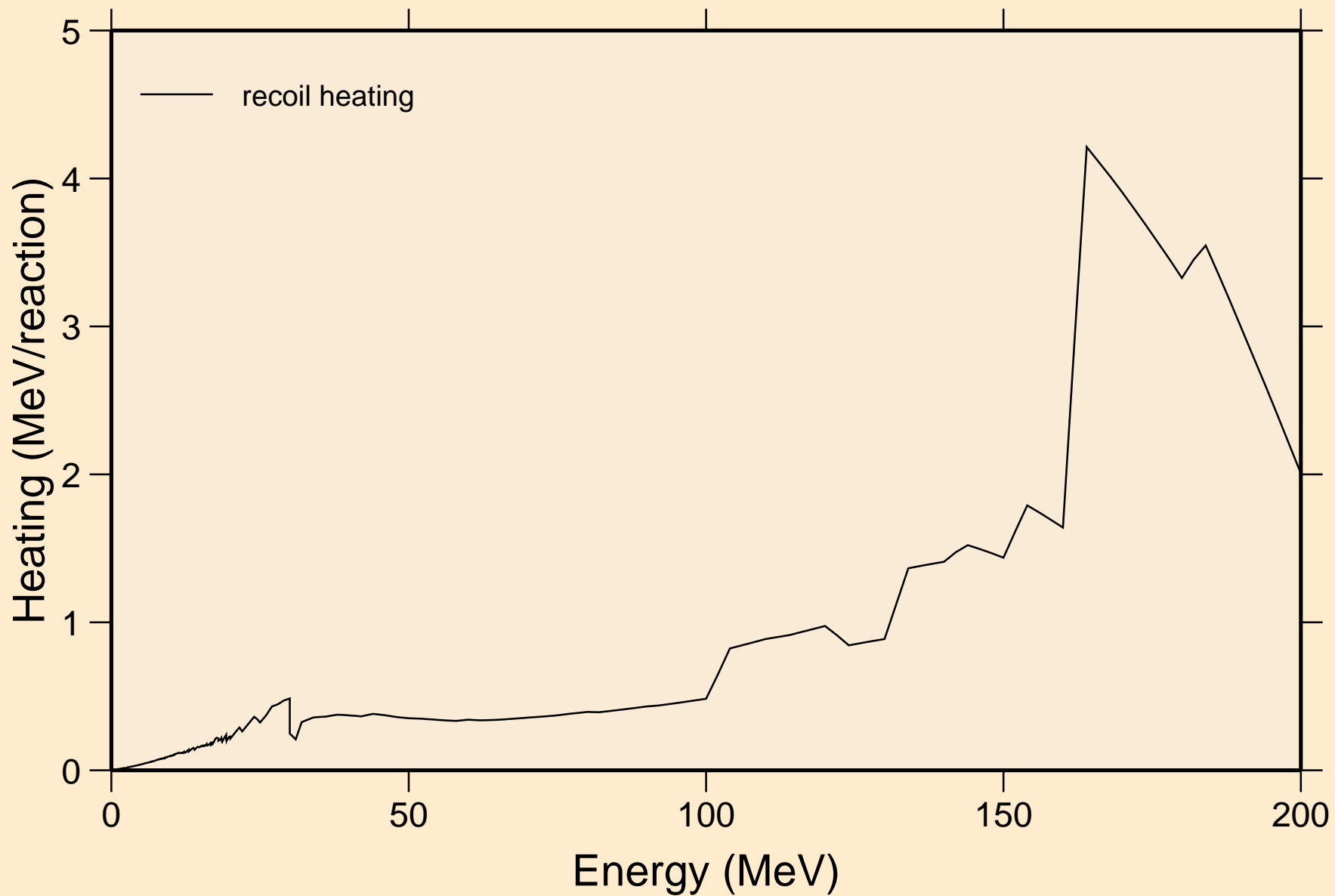


# HG191M NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K

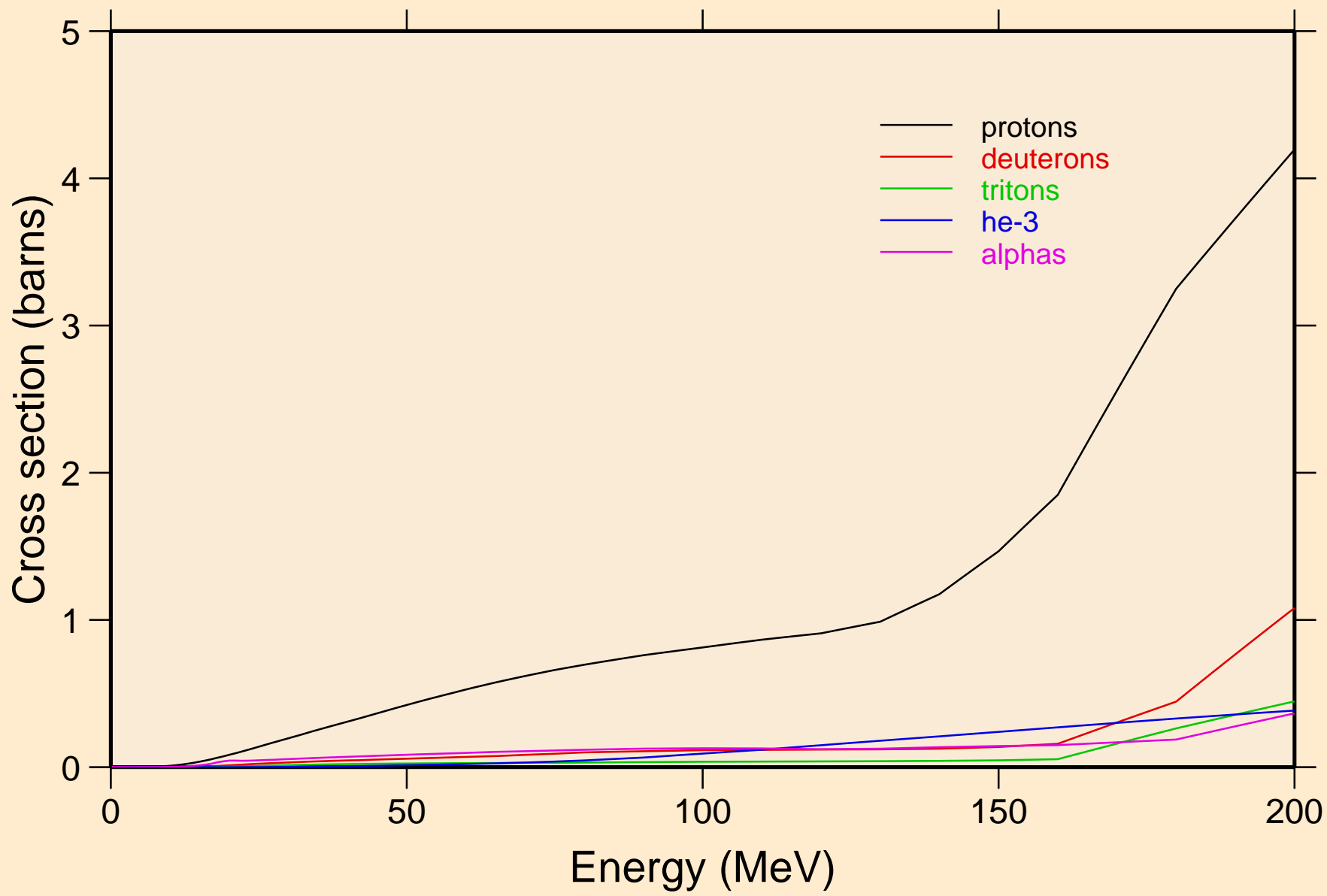
## Particle heating contributions



HG191M NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Recoil Heating

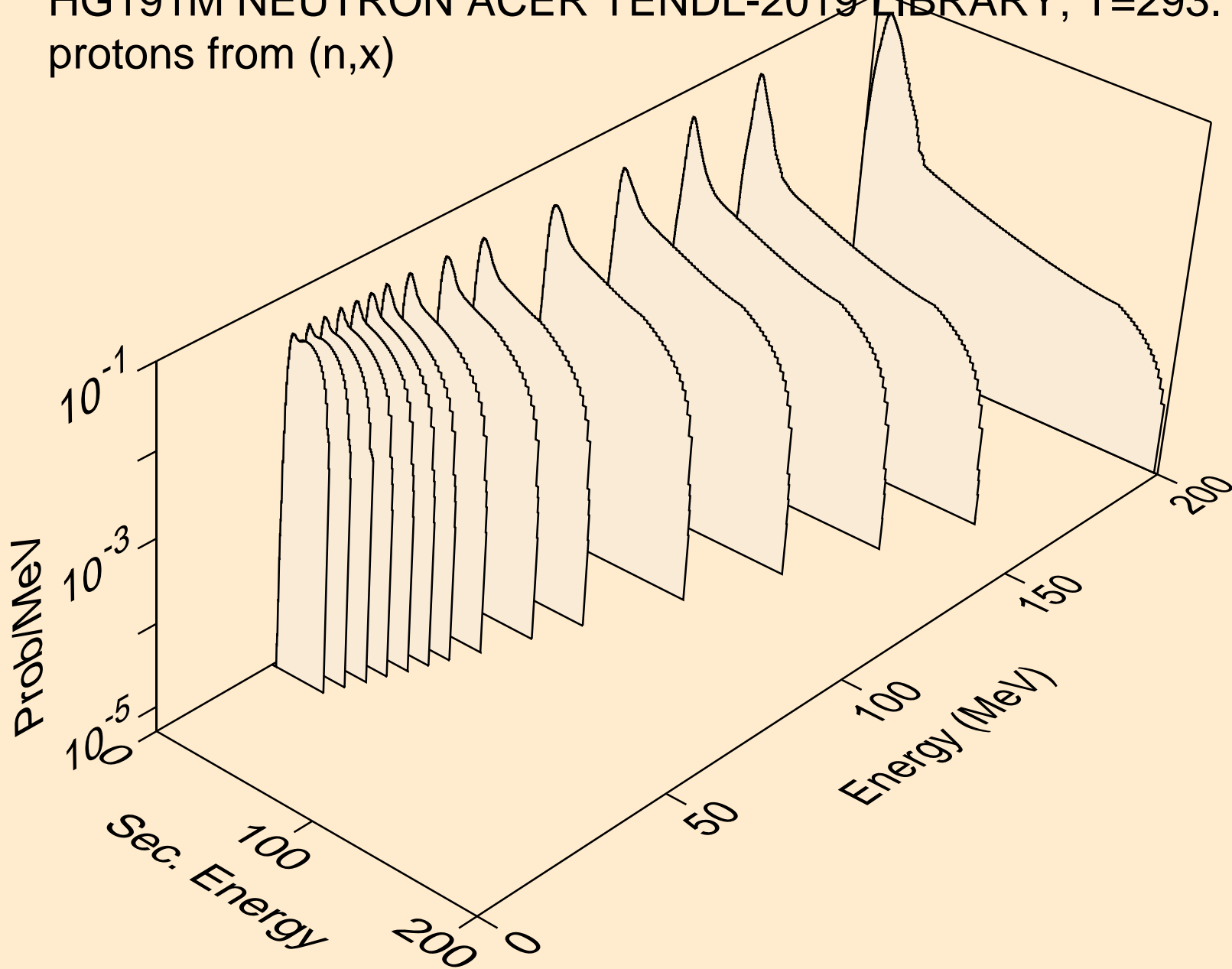


HG191M NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Particle production cross sections

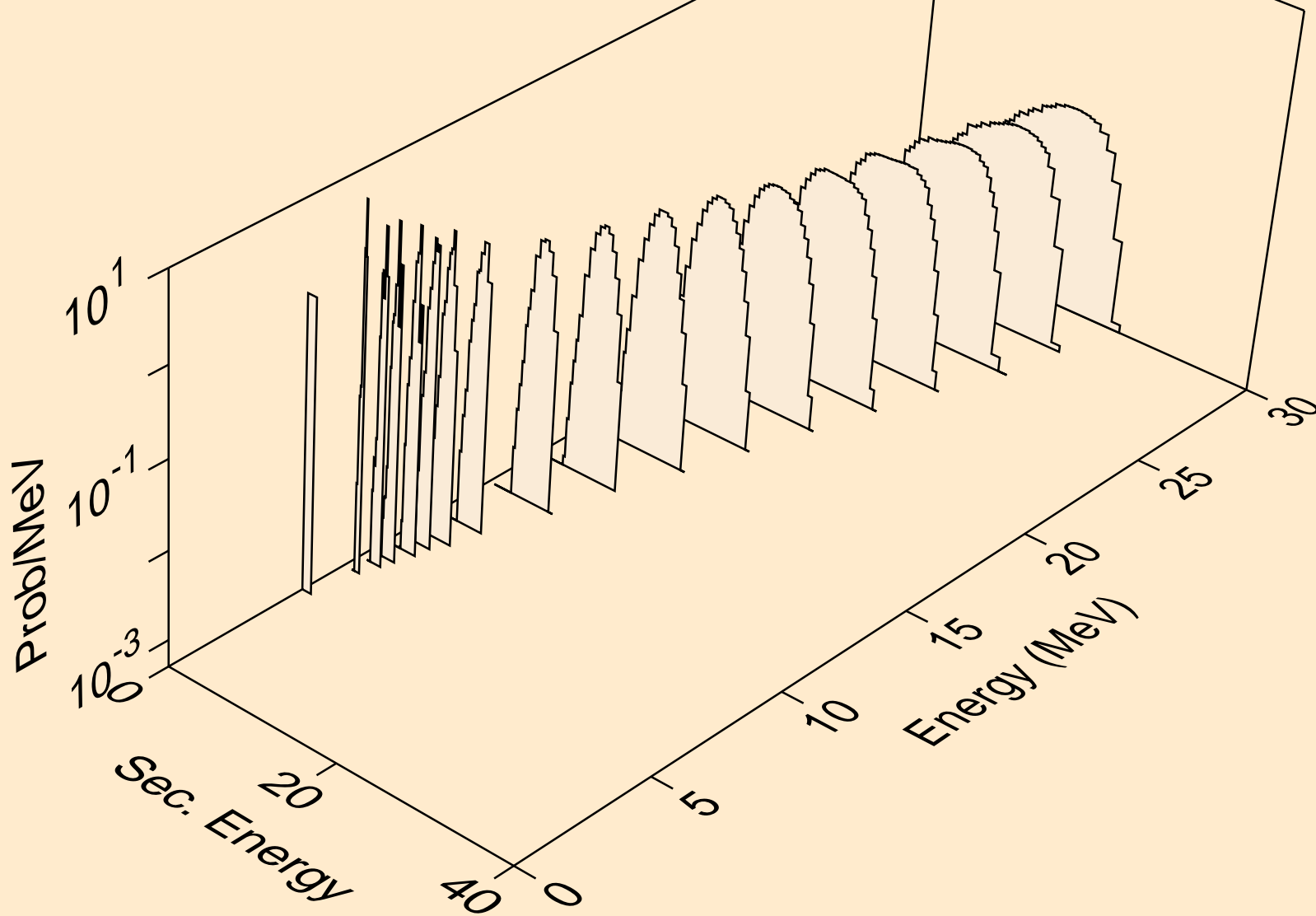




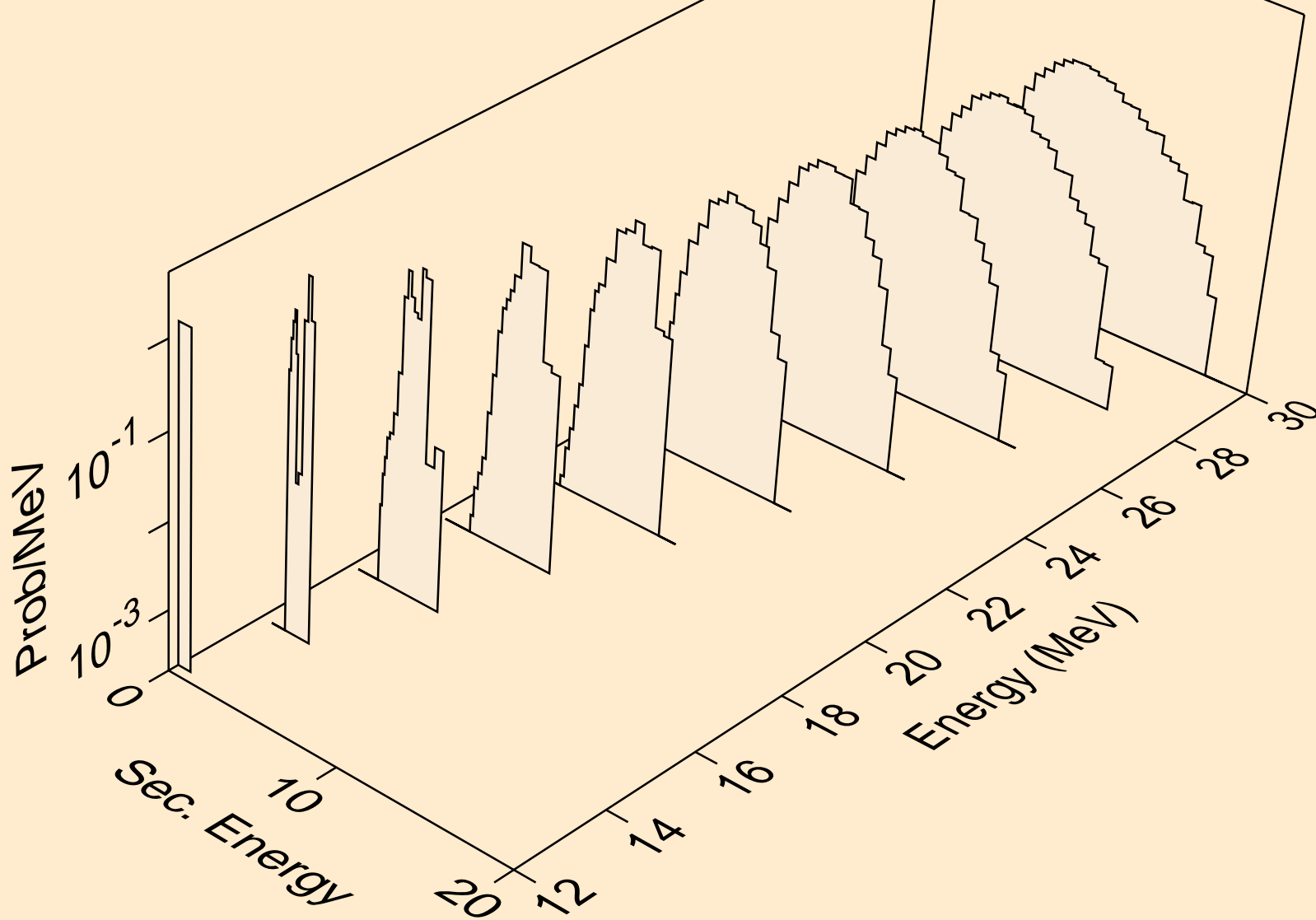
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protons from (n,x)



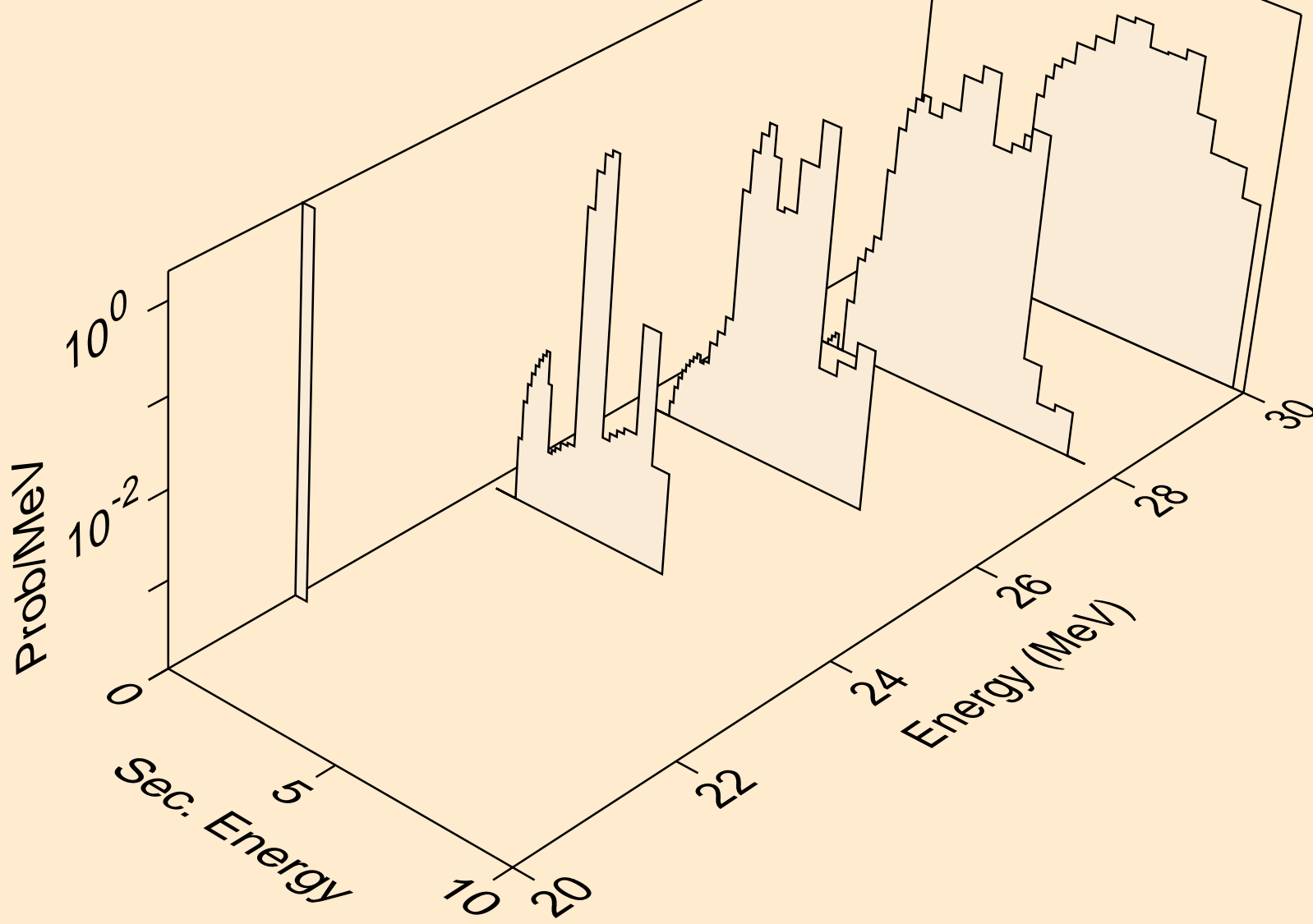
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protons from (n,n\*)p



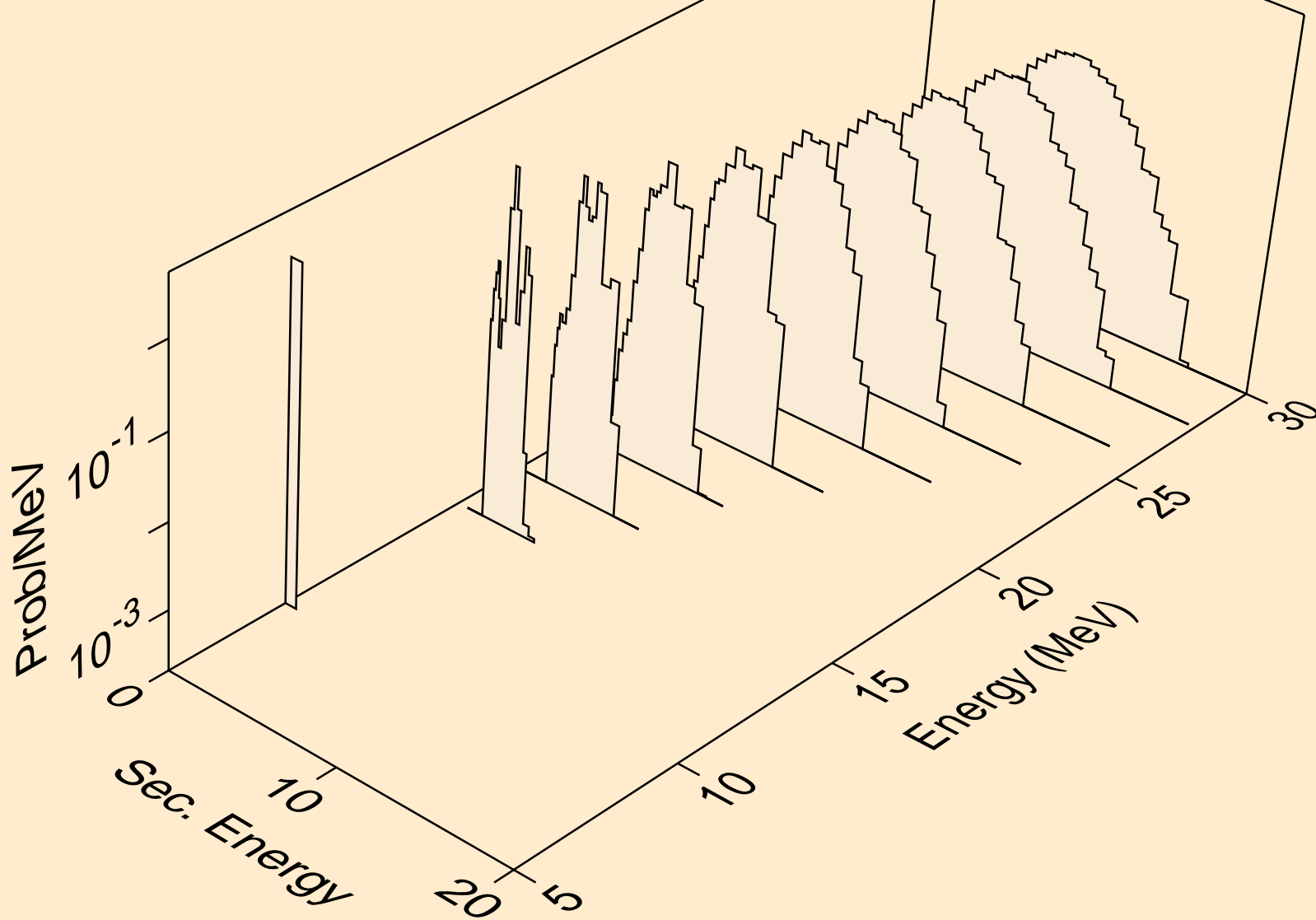
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protons from (n,2np)



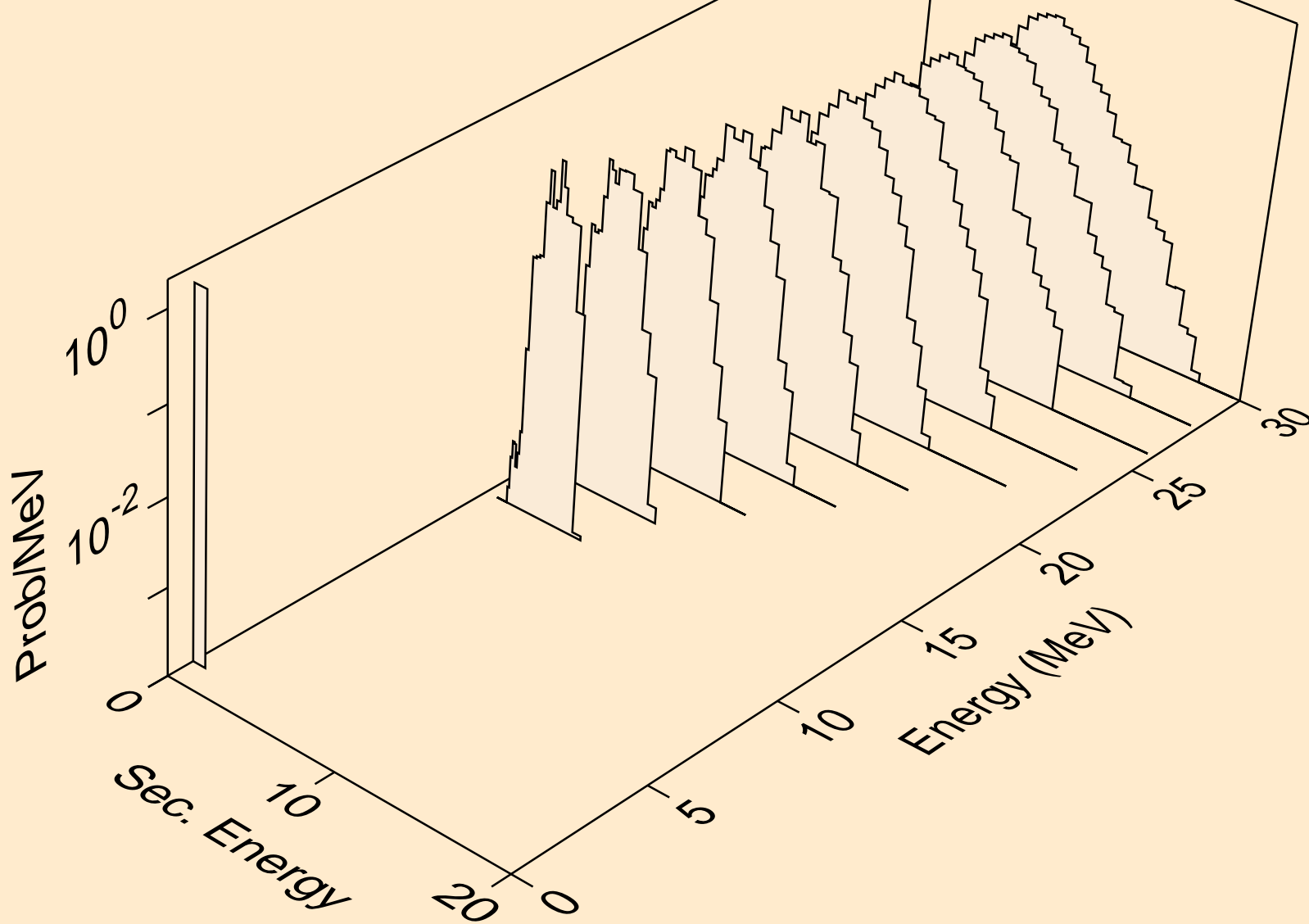
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protons from (n,3np)



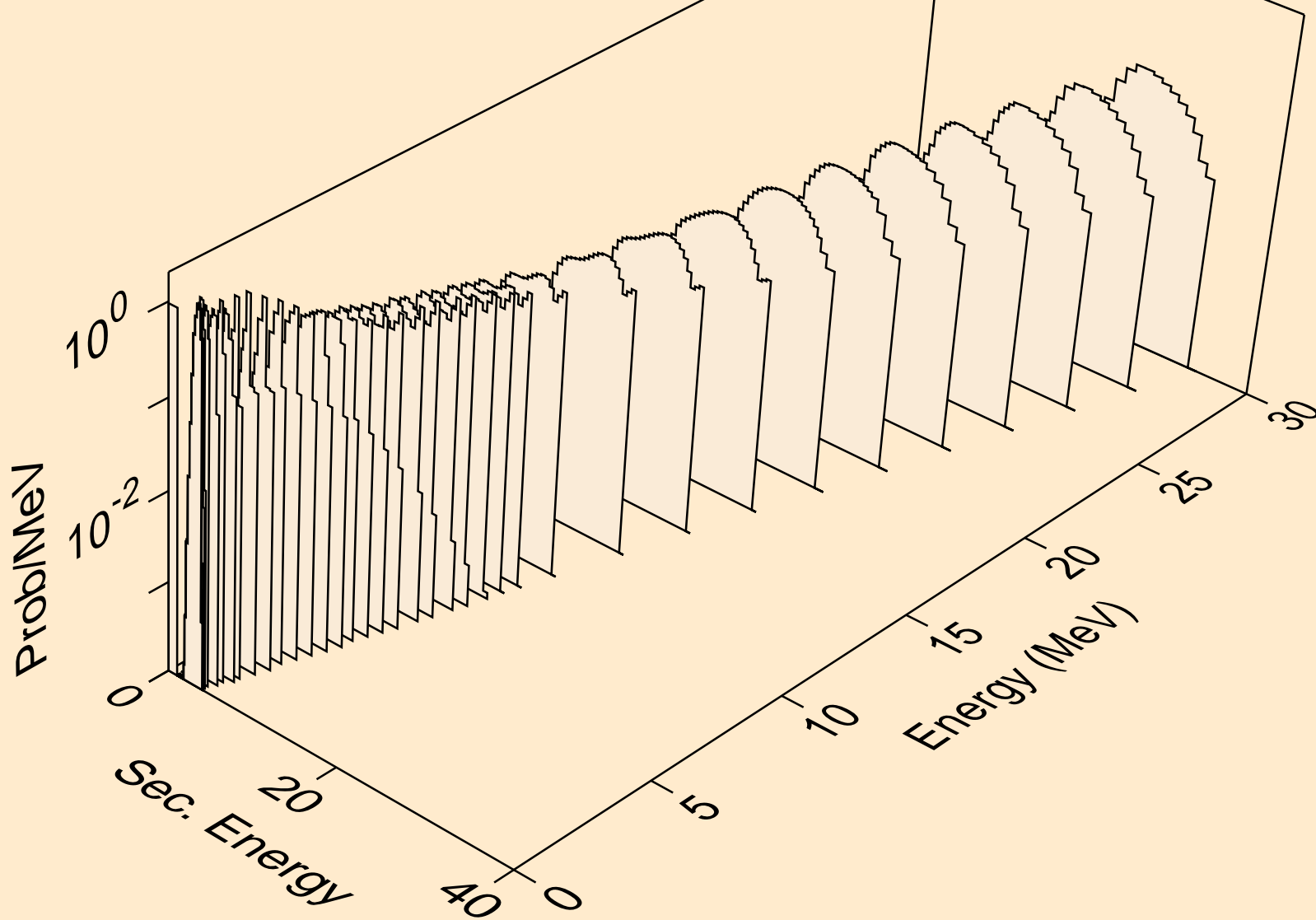
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protons from (n,2np)



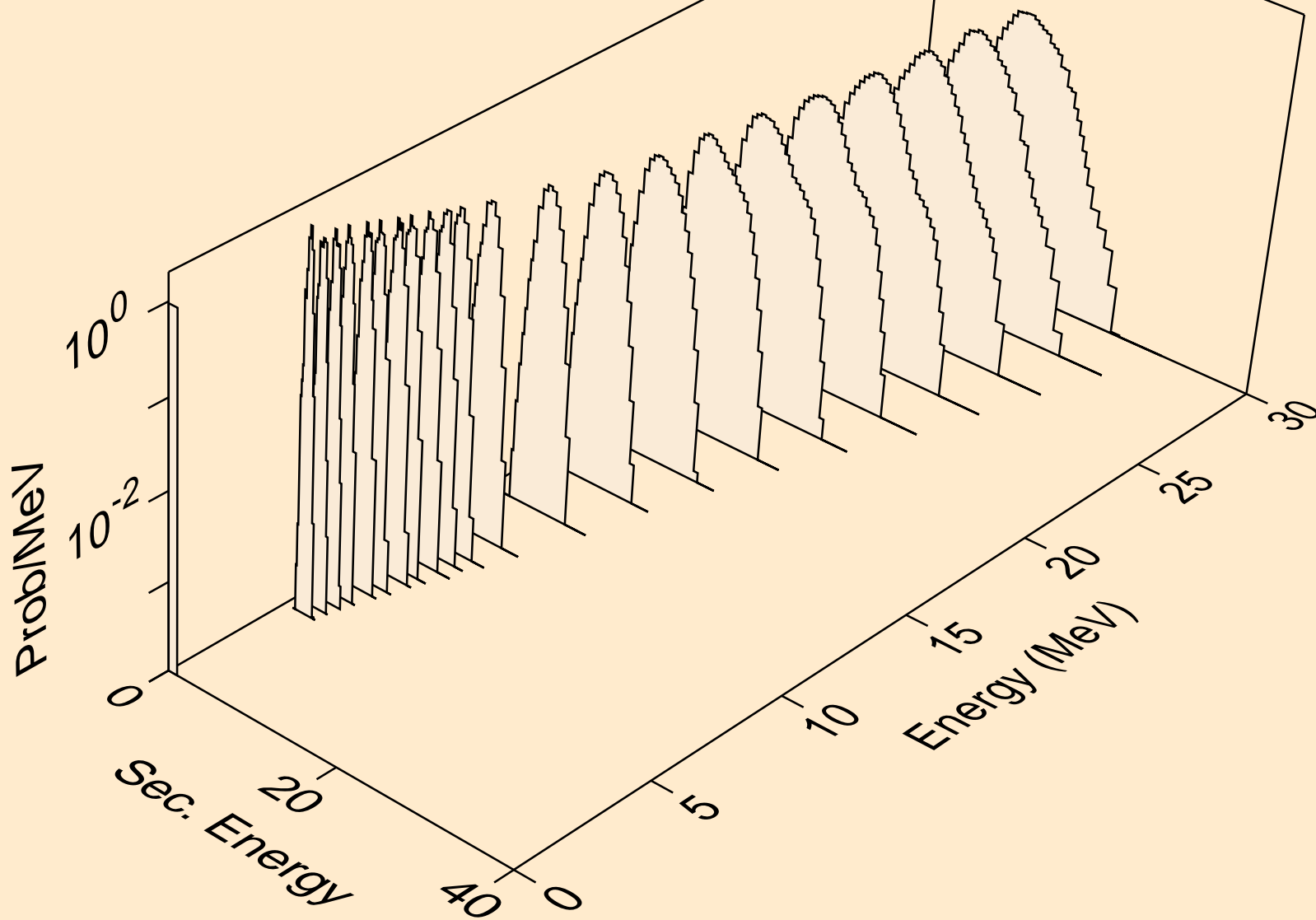
HG191M NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
protons from (n,npa)



HG191M NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
protons from (n,p)

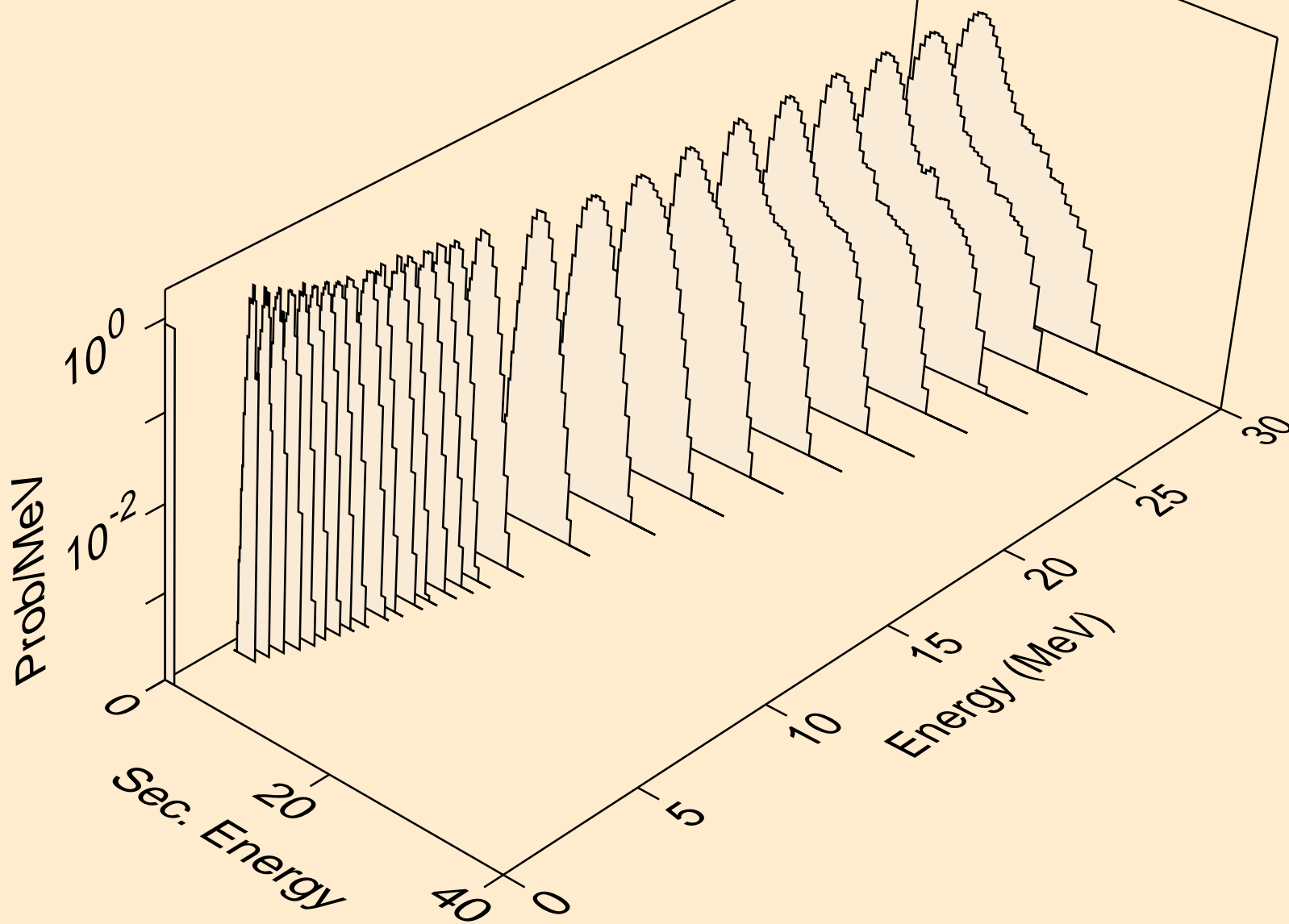


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protons from (n,2p)

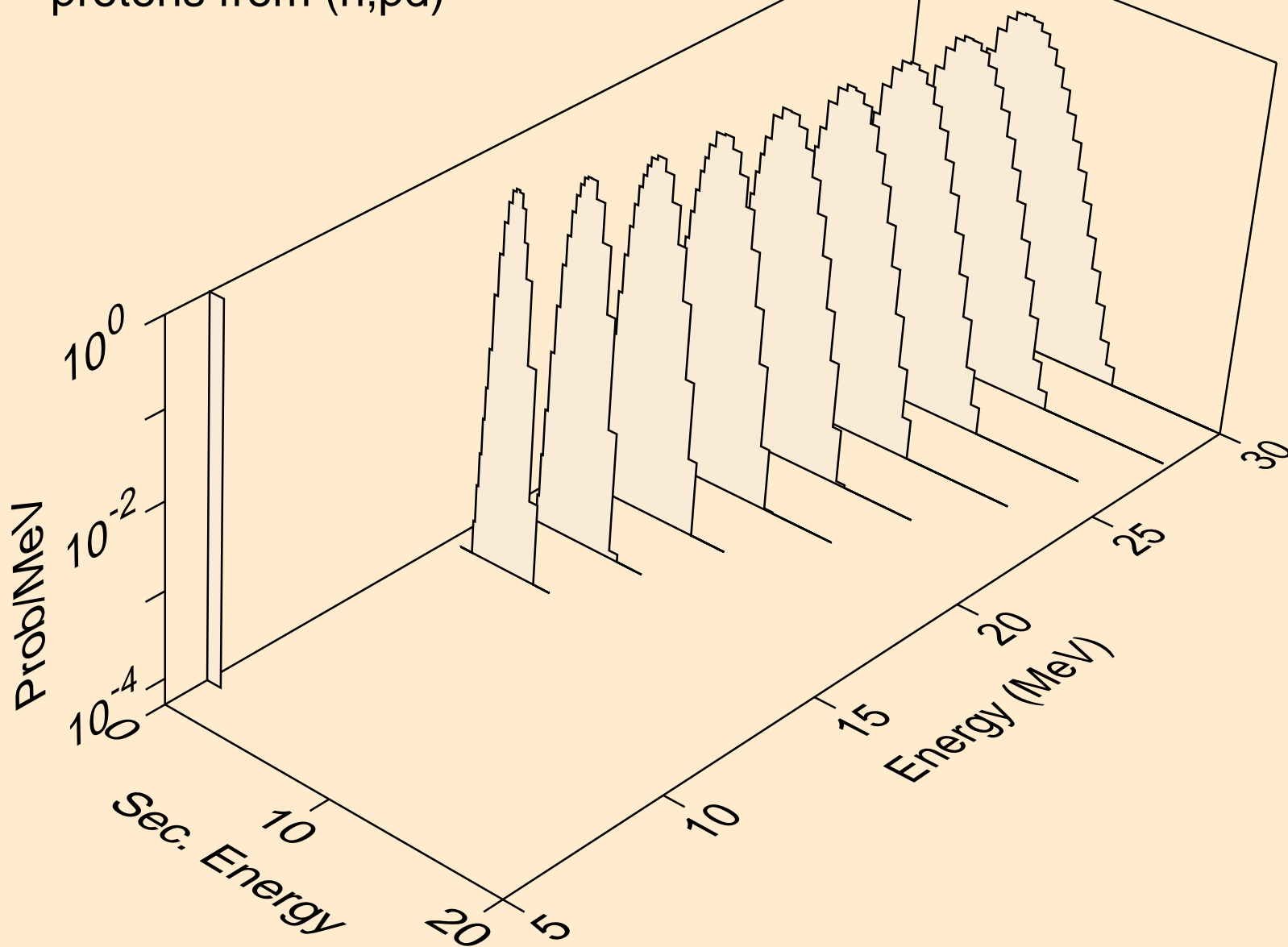




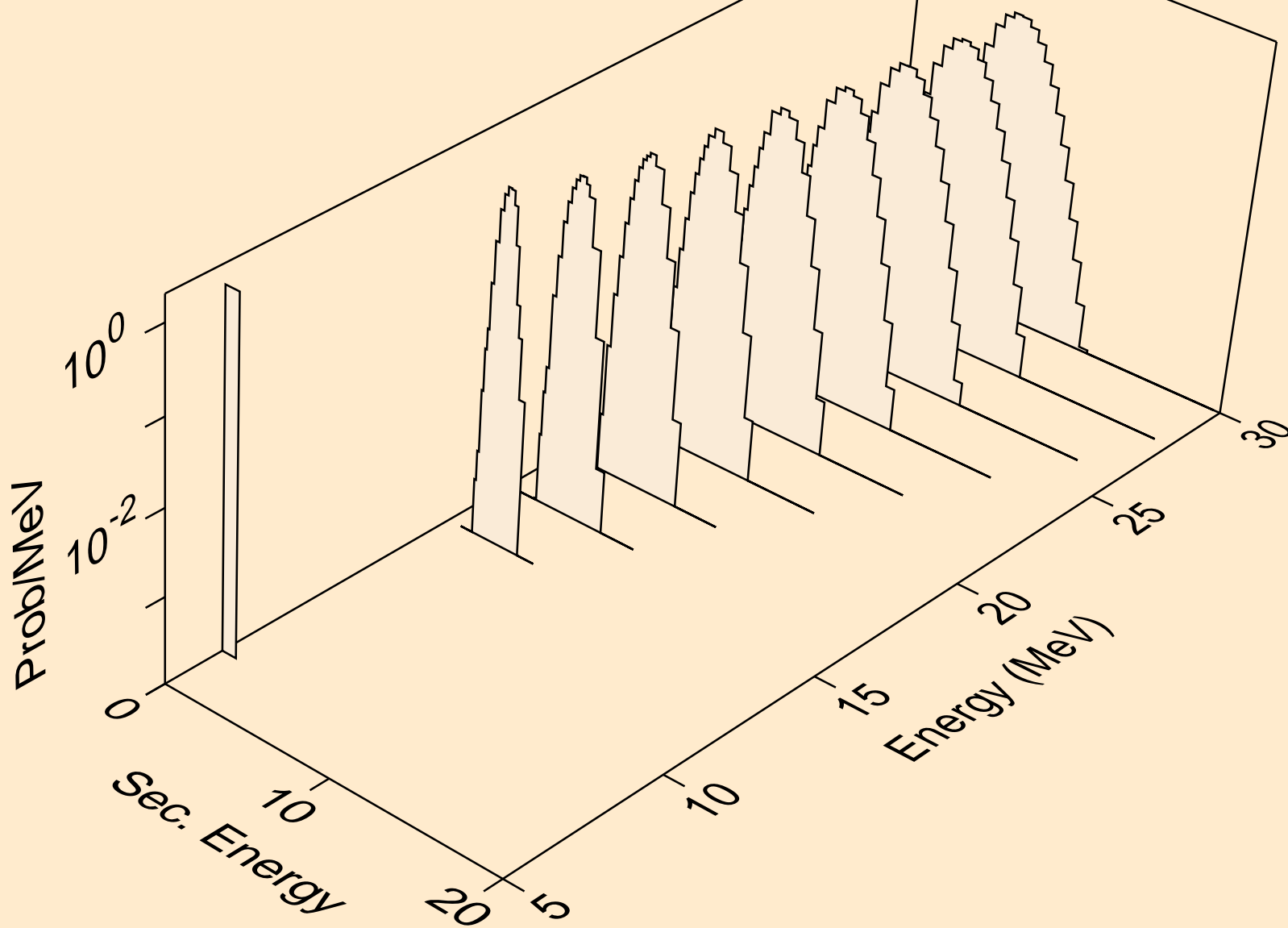
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protons from (n,p)



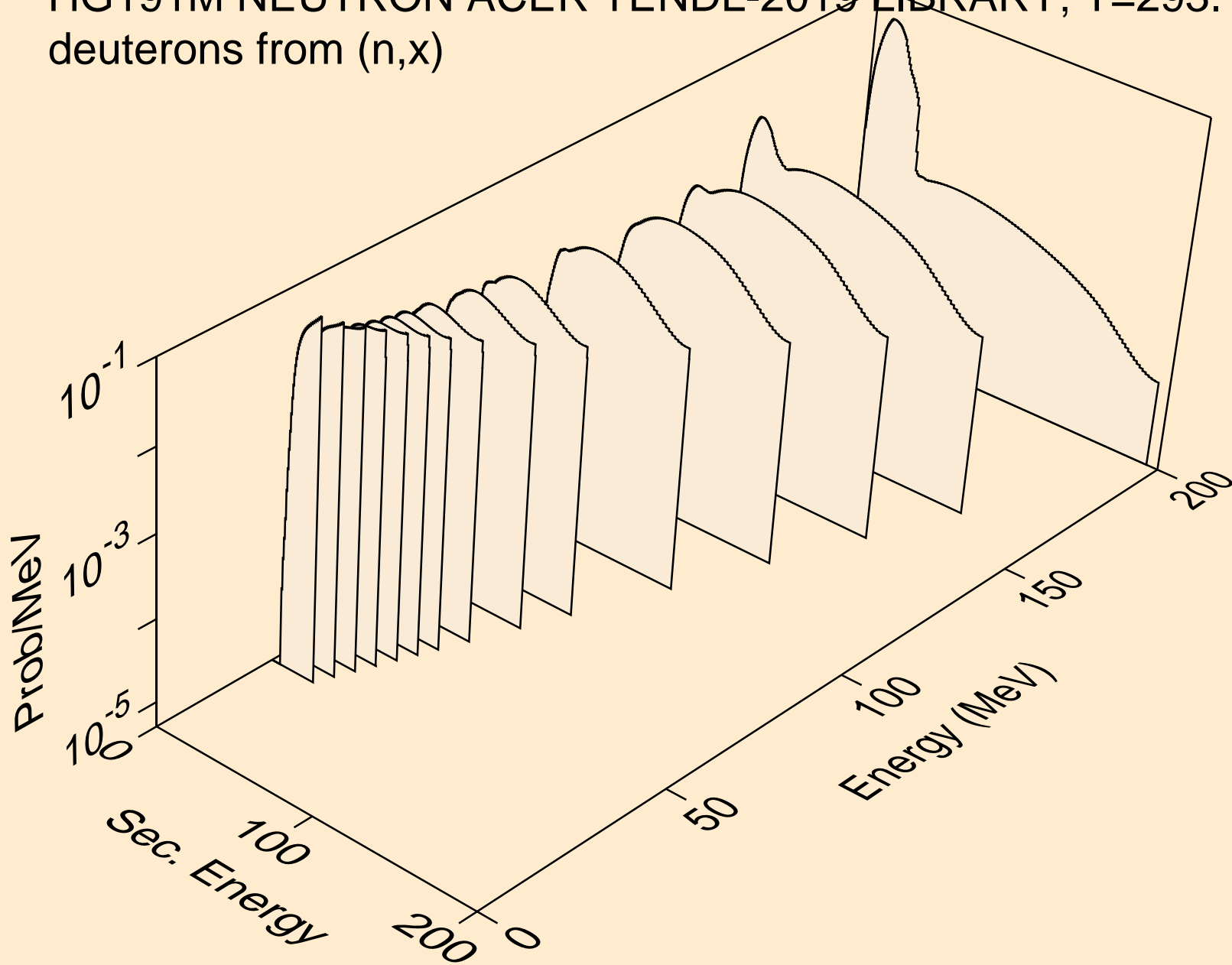
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protons from (n,pd)



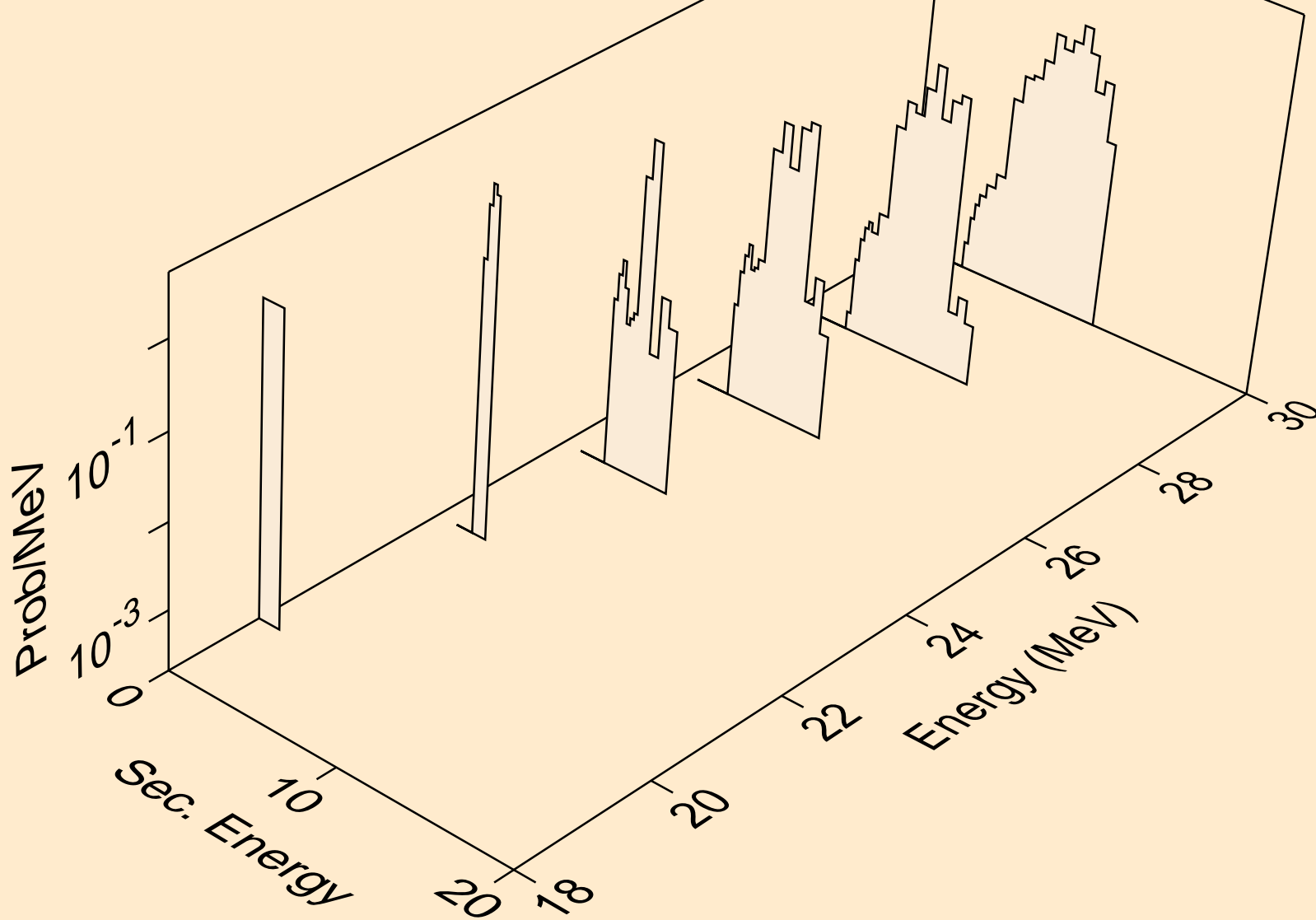
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protons from (n,pt)



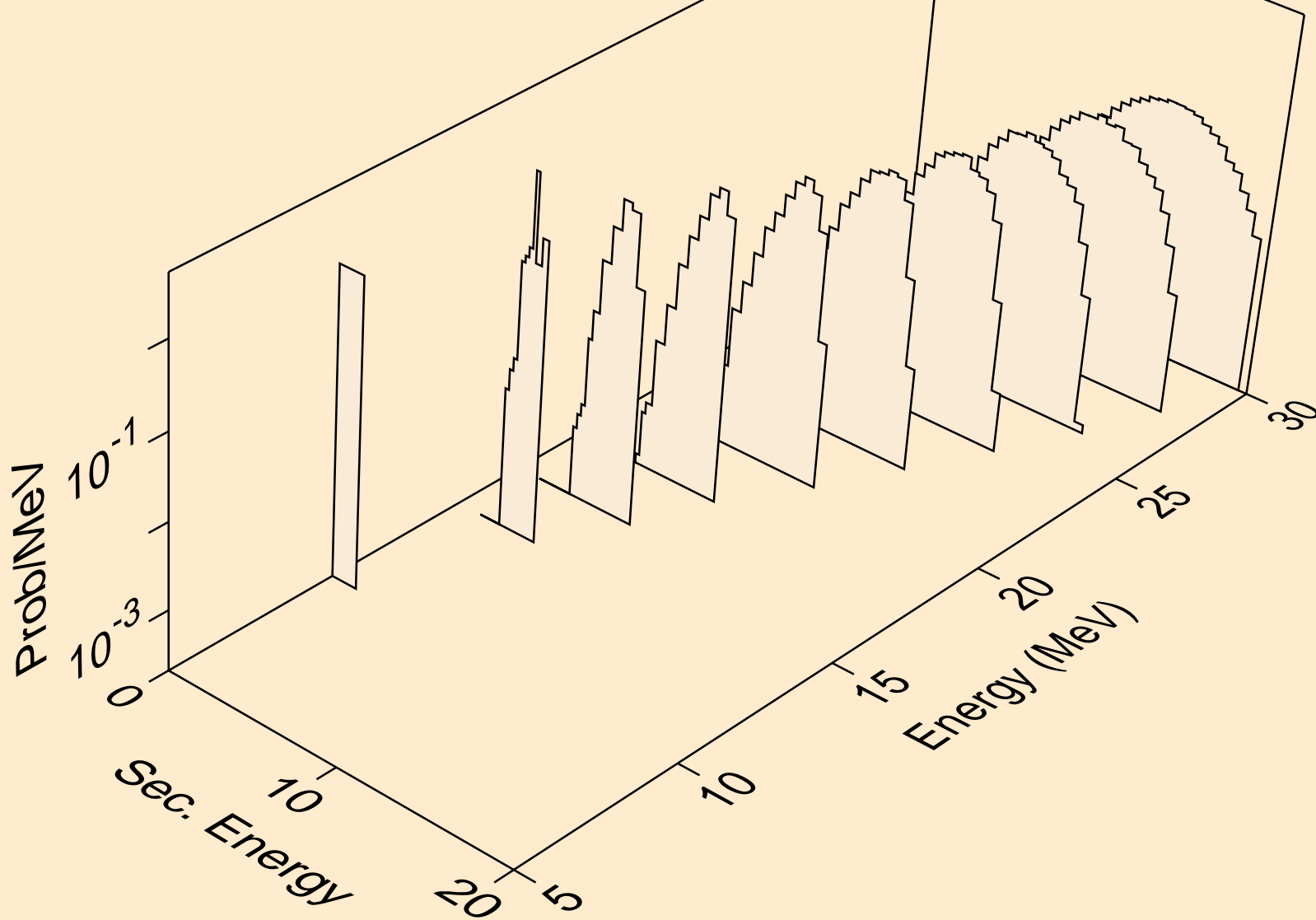
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deuterons from (n,x)



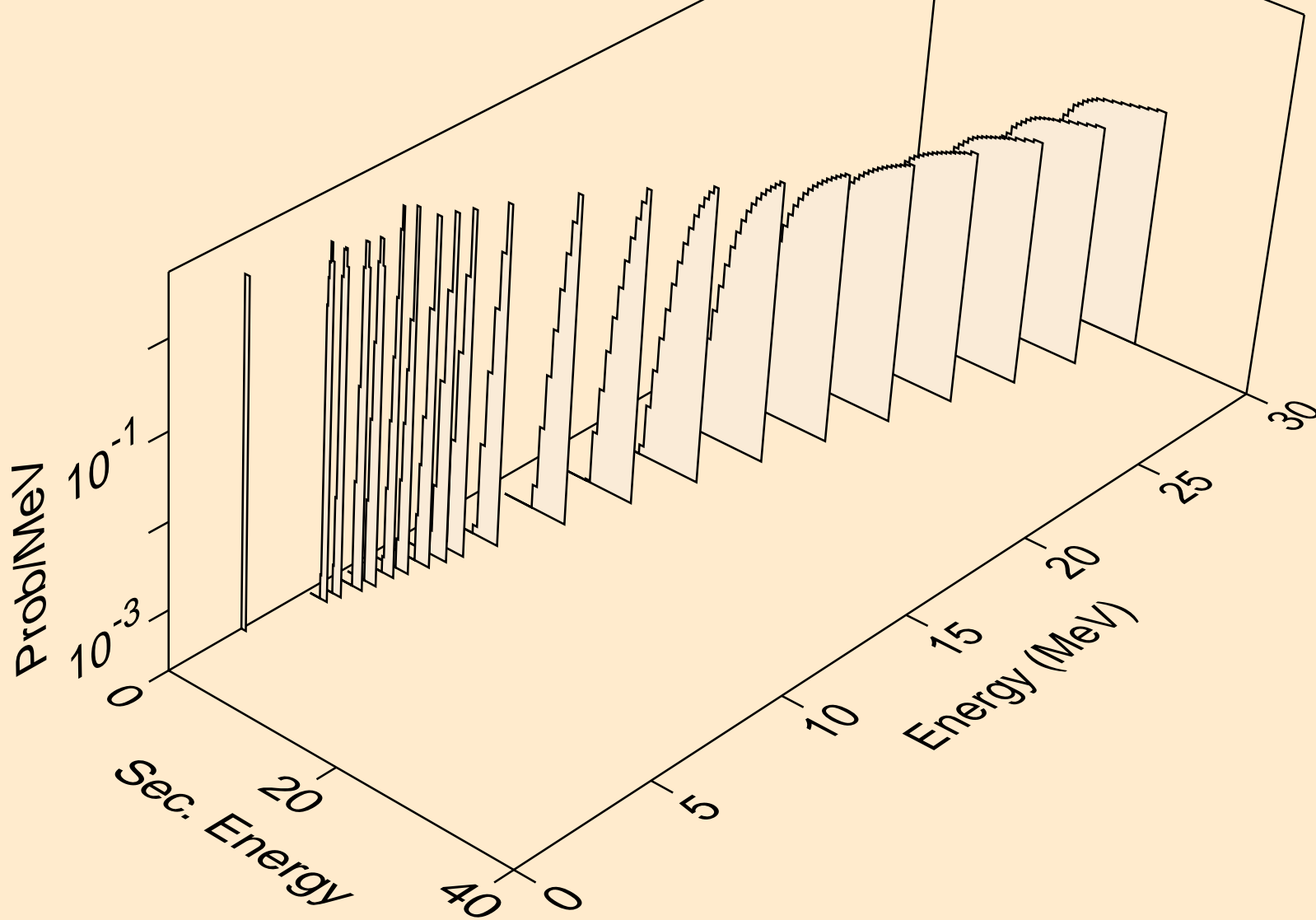
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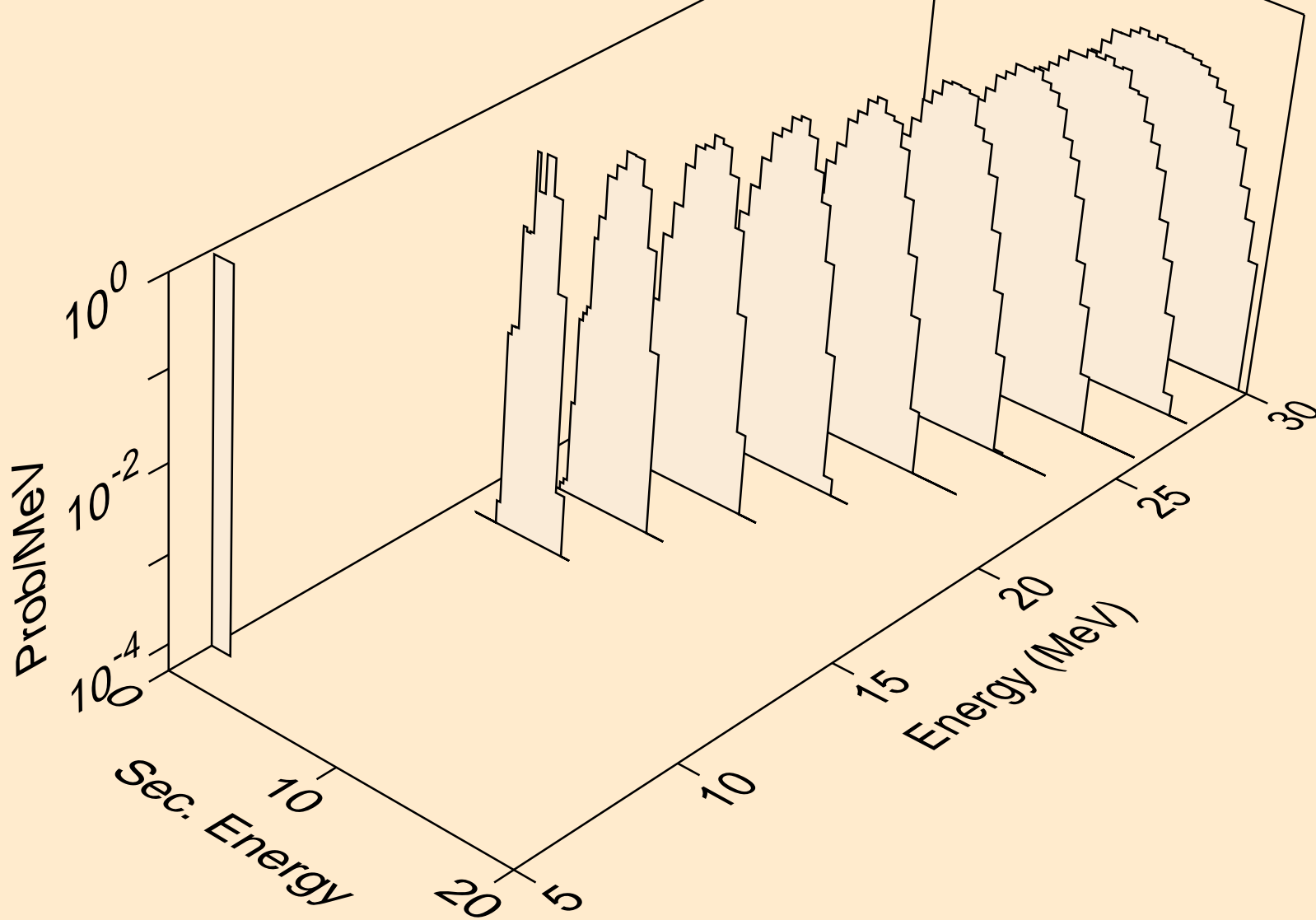
HG191M NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
deuterons from (n,n\*)d



HG191M NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
deuterons from (n,d)

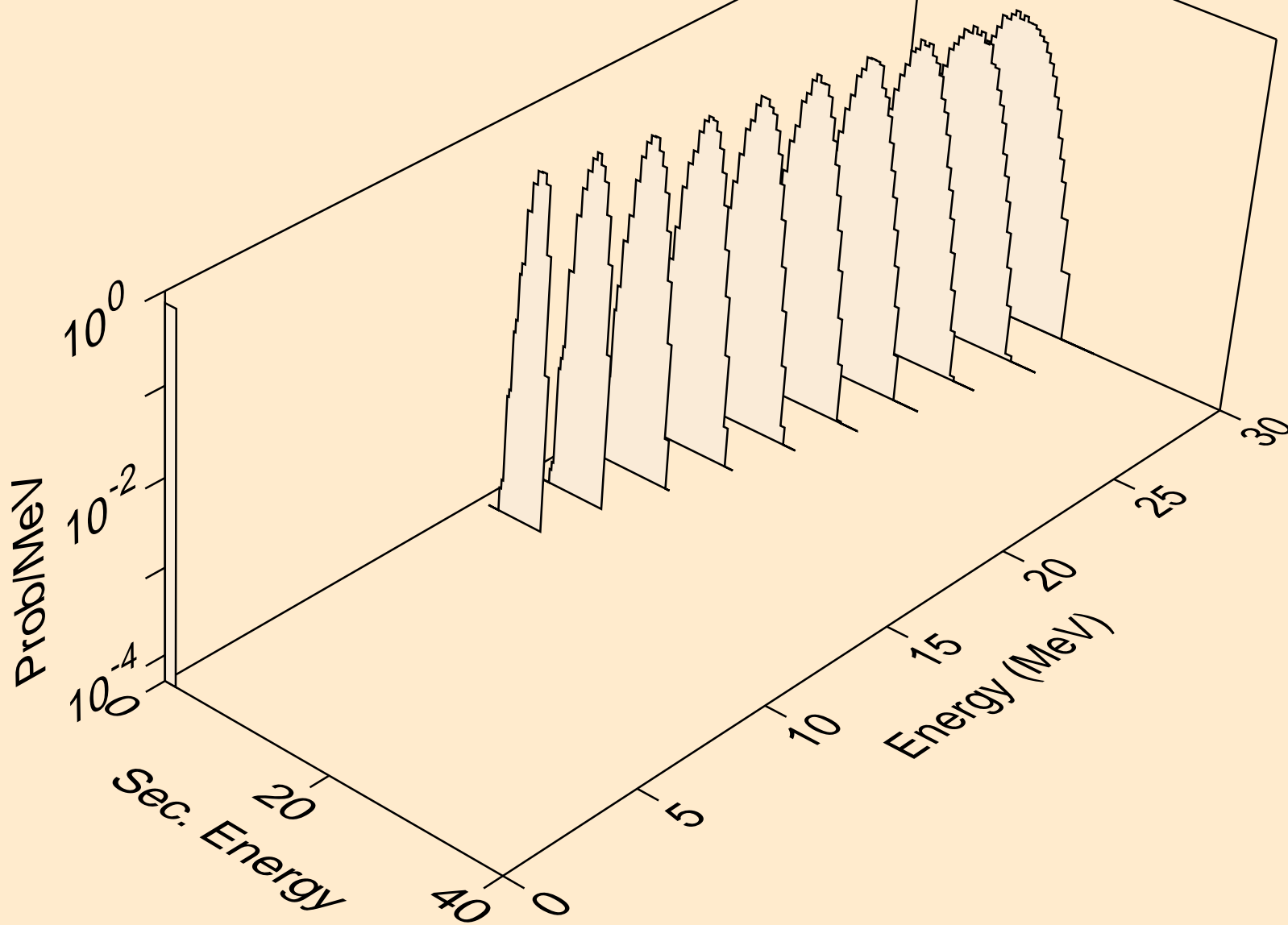


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deuterons from (n,pd)

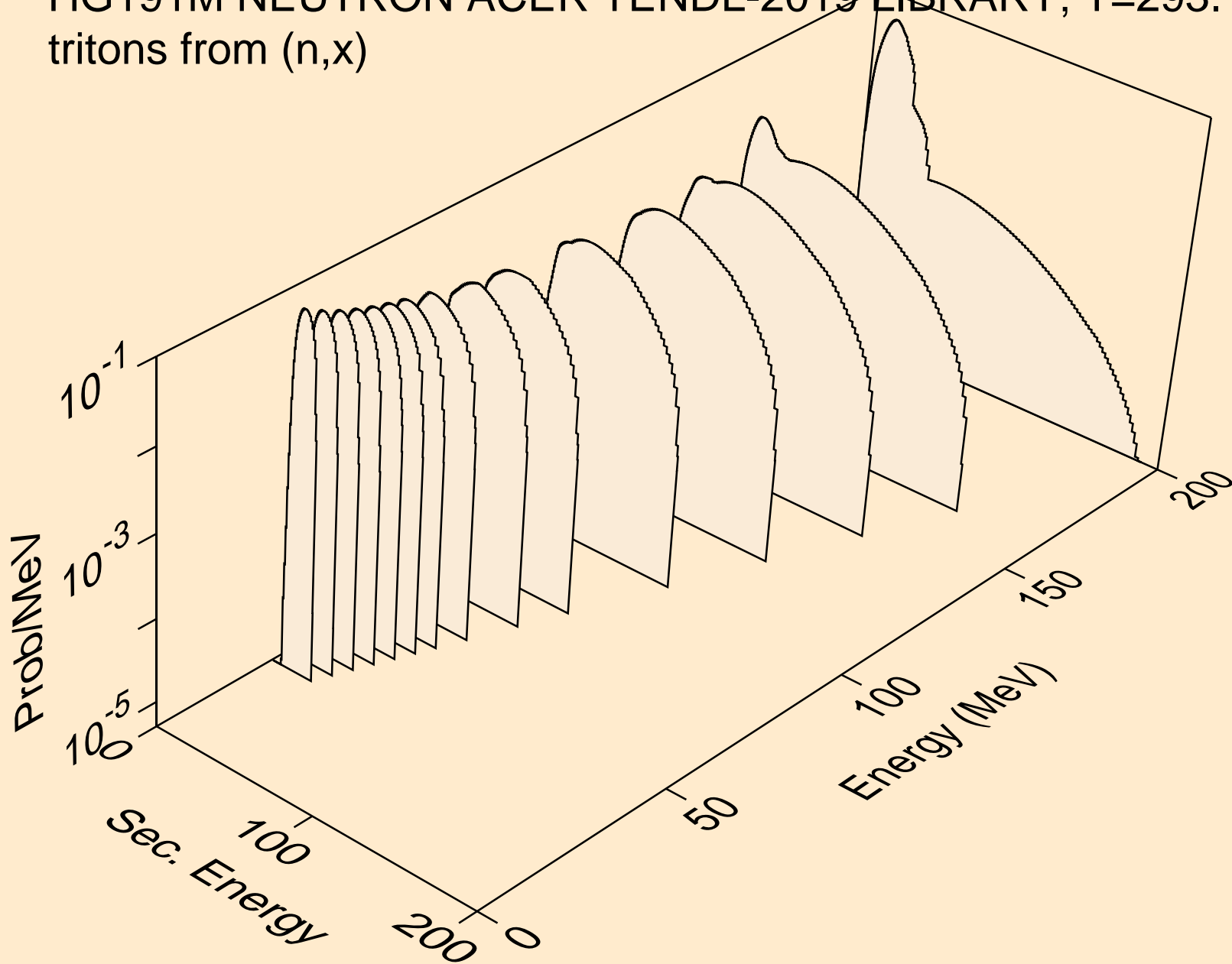




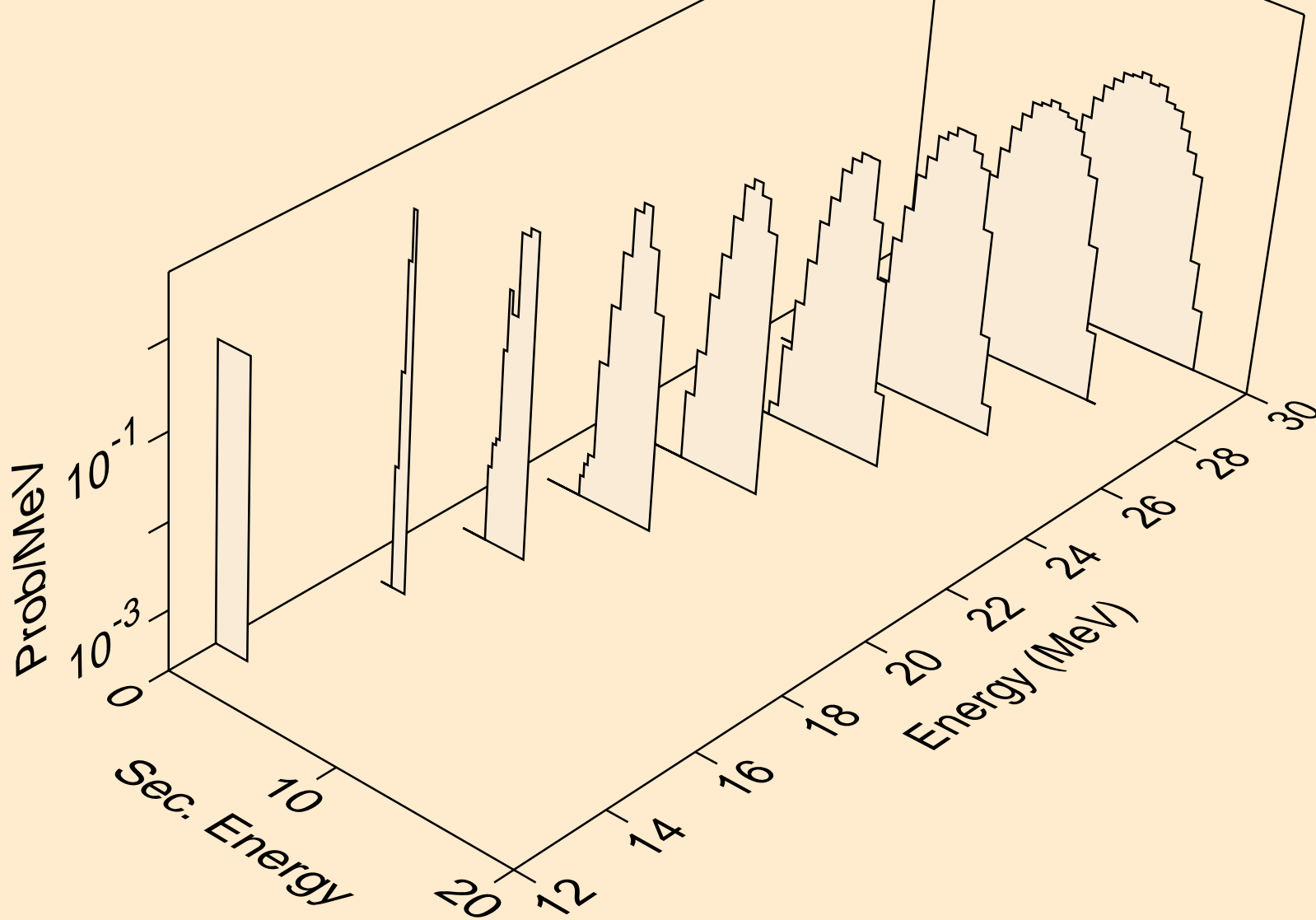
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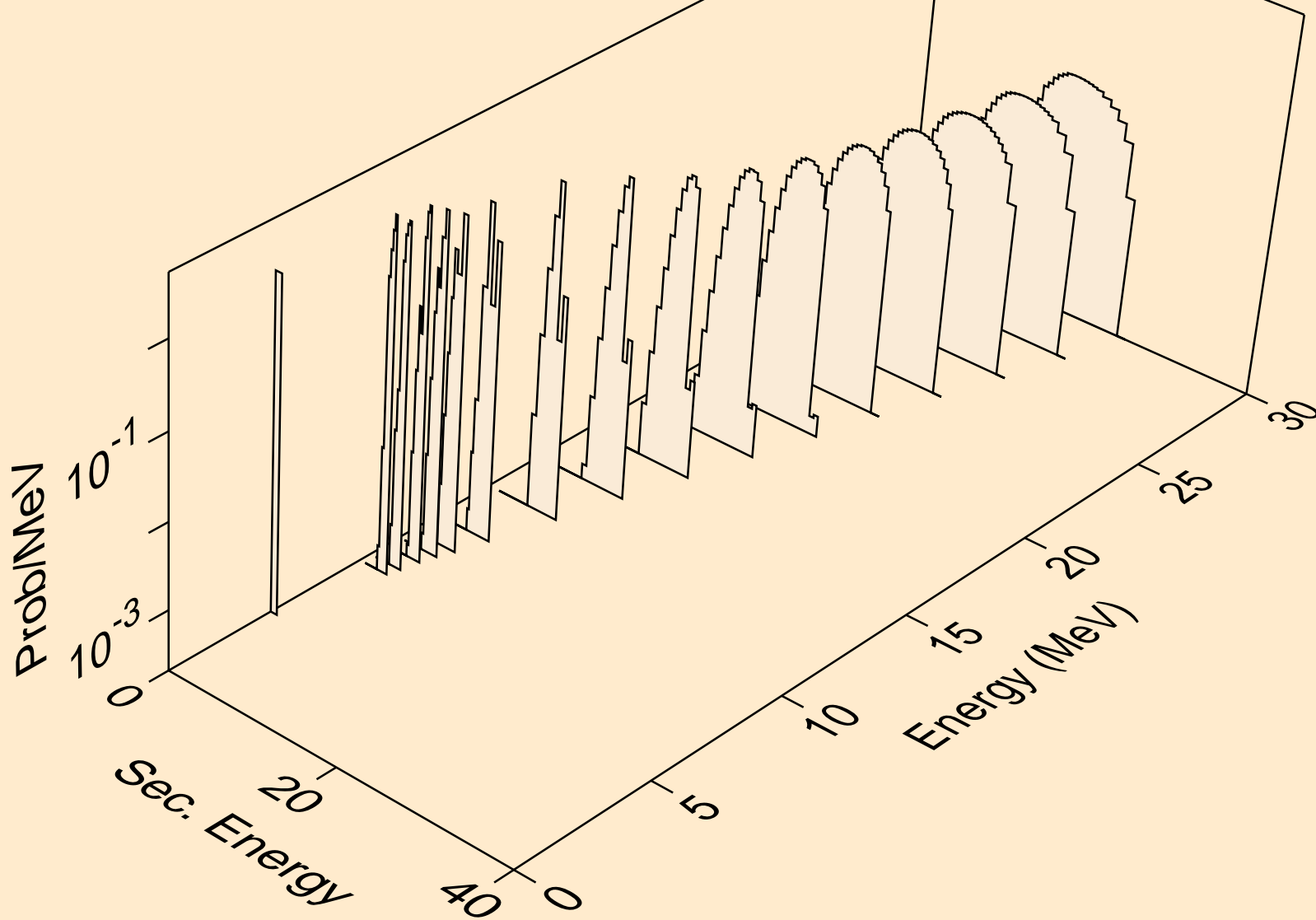
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tritons from (n,x)



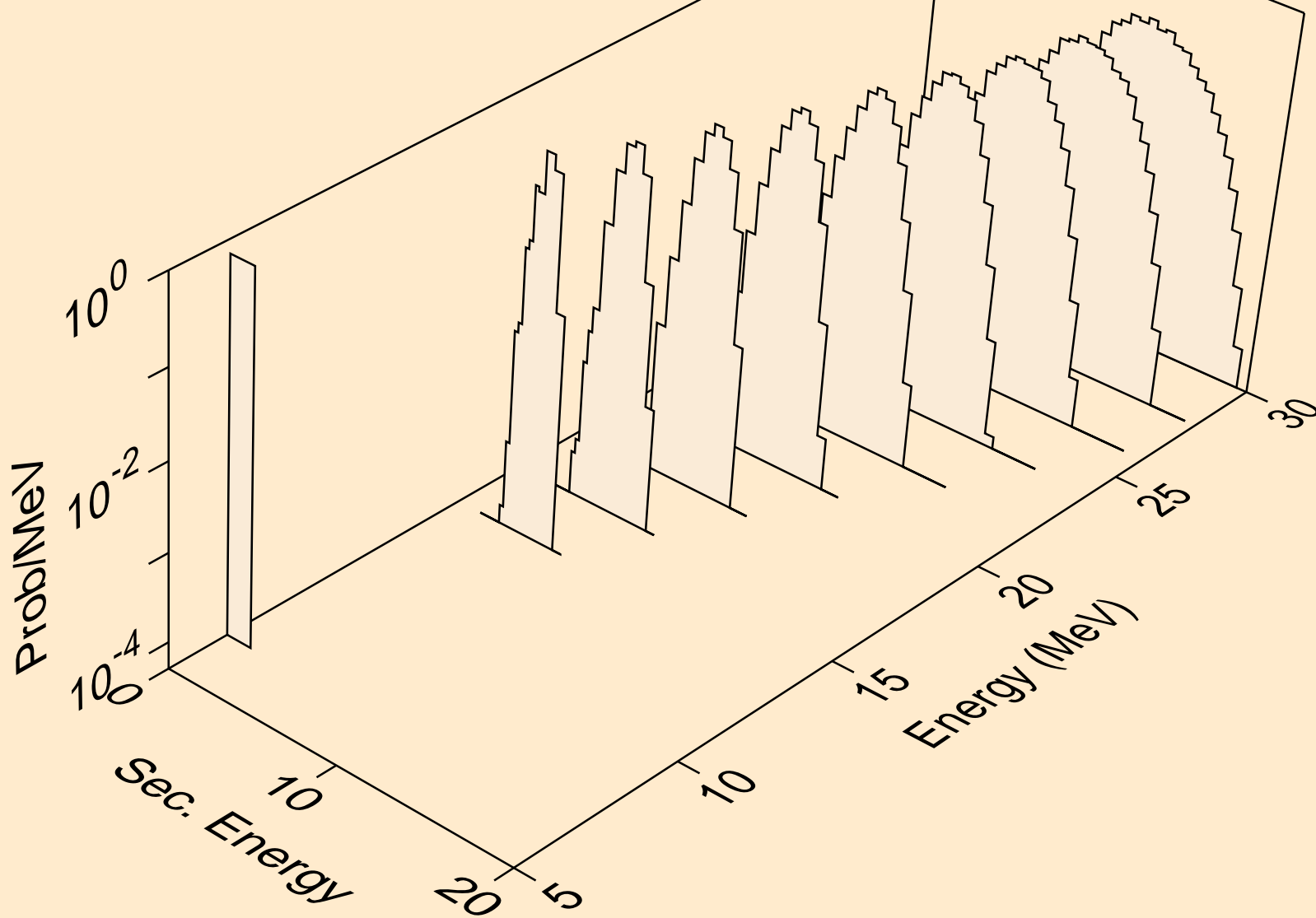
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tritons from (n,n\*)t



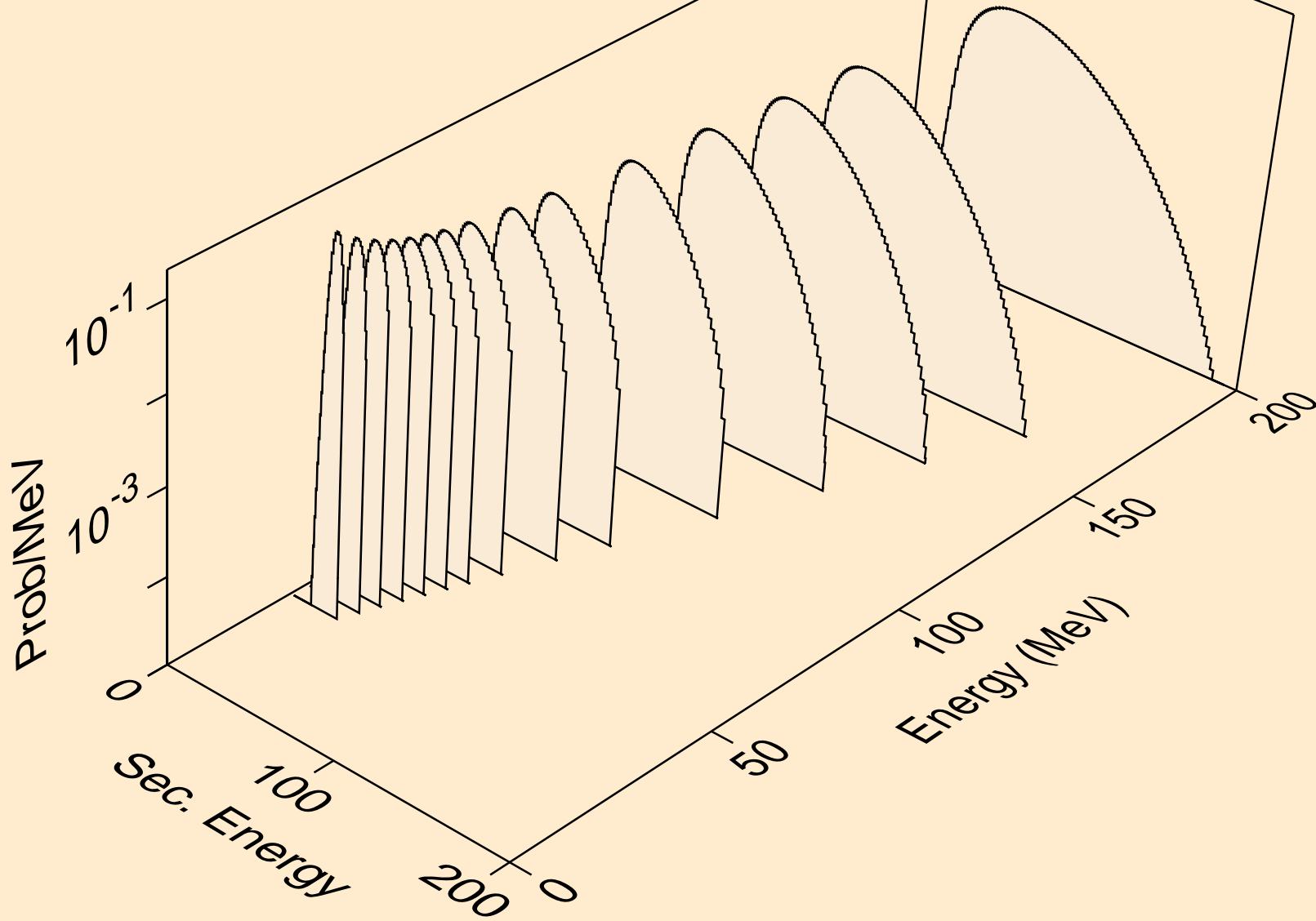
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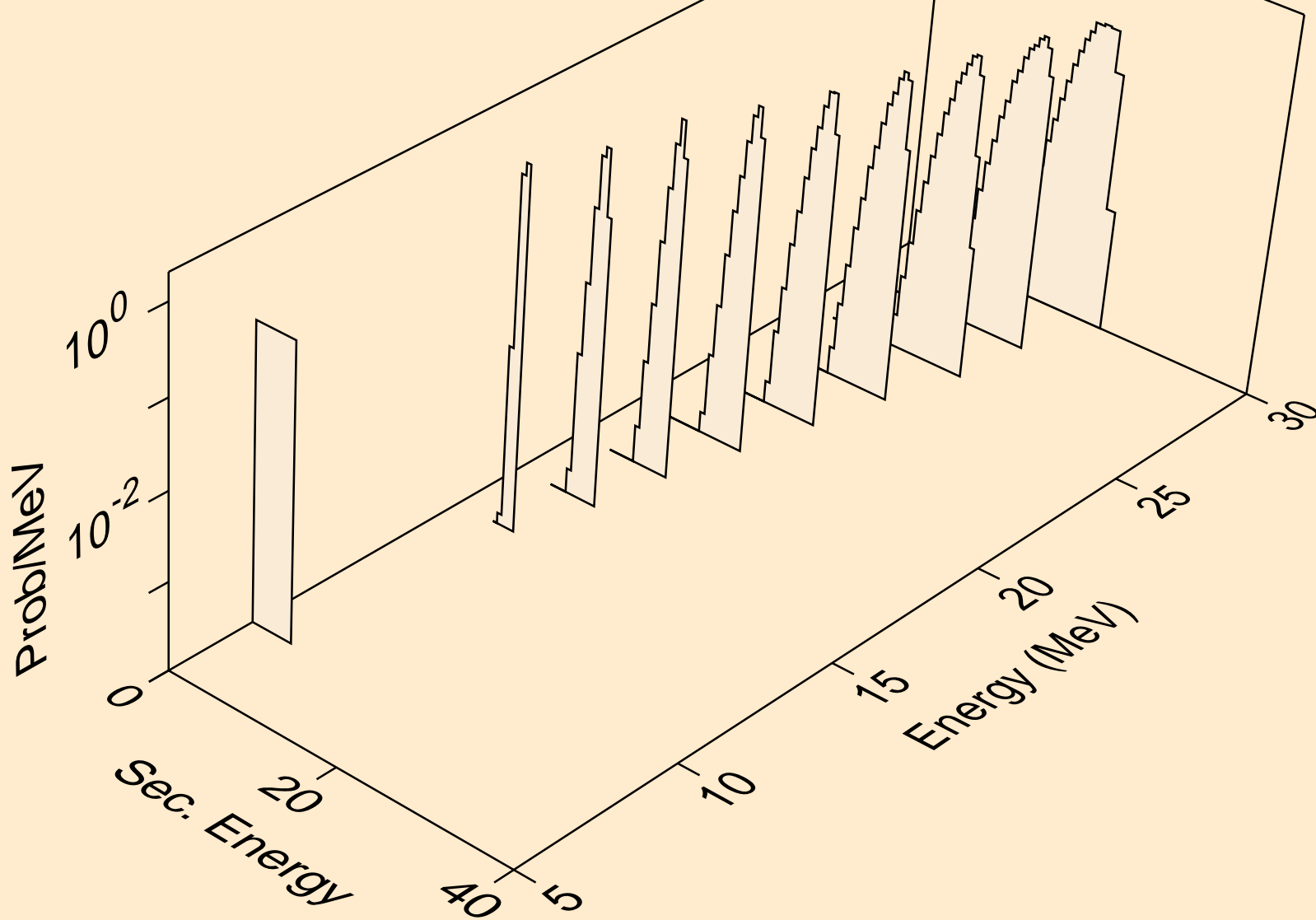
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tritons from (n,pt)



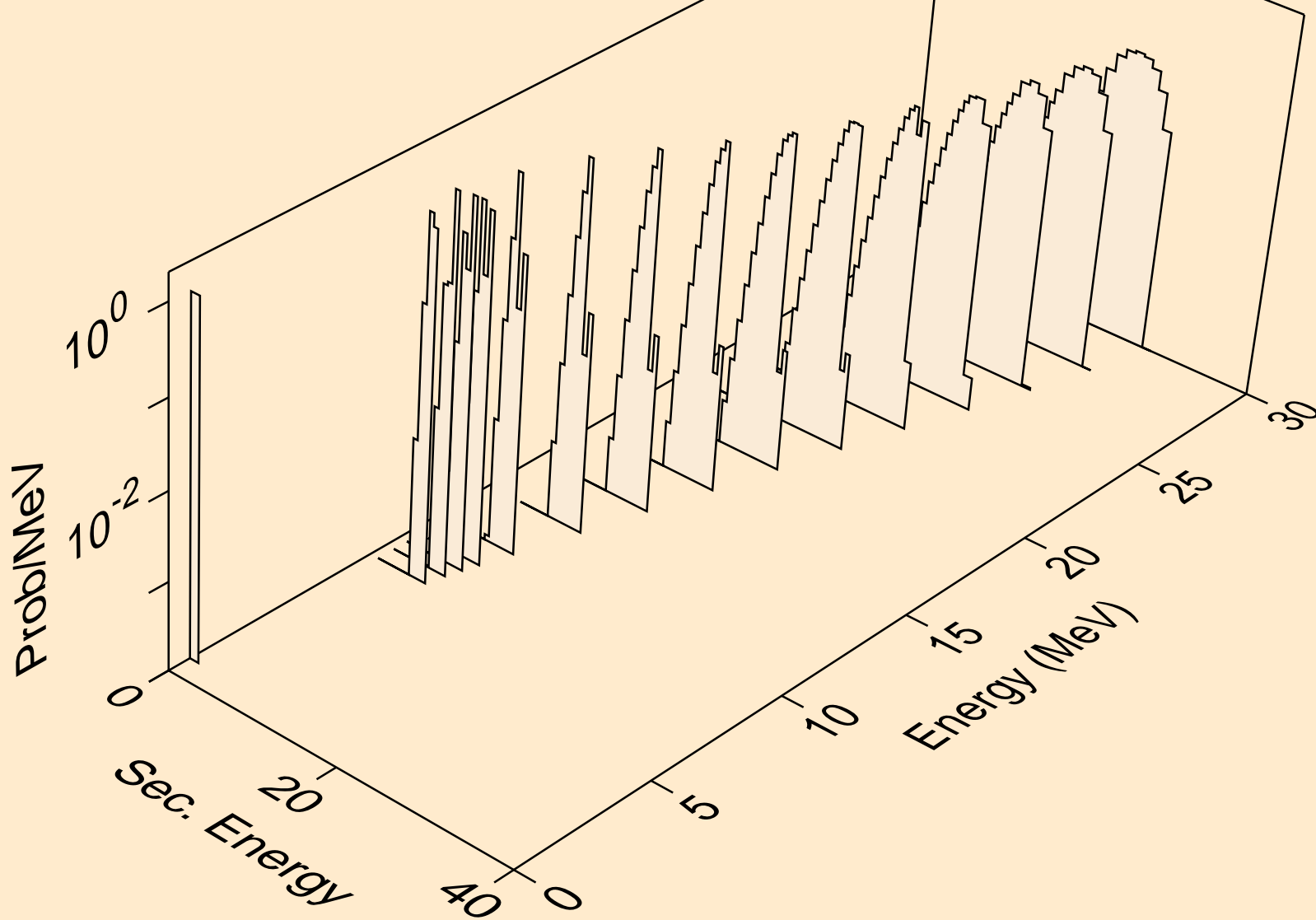
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he3s from (n,x)



HG191M NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
he3s from (n,n\*)he3

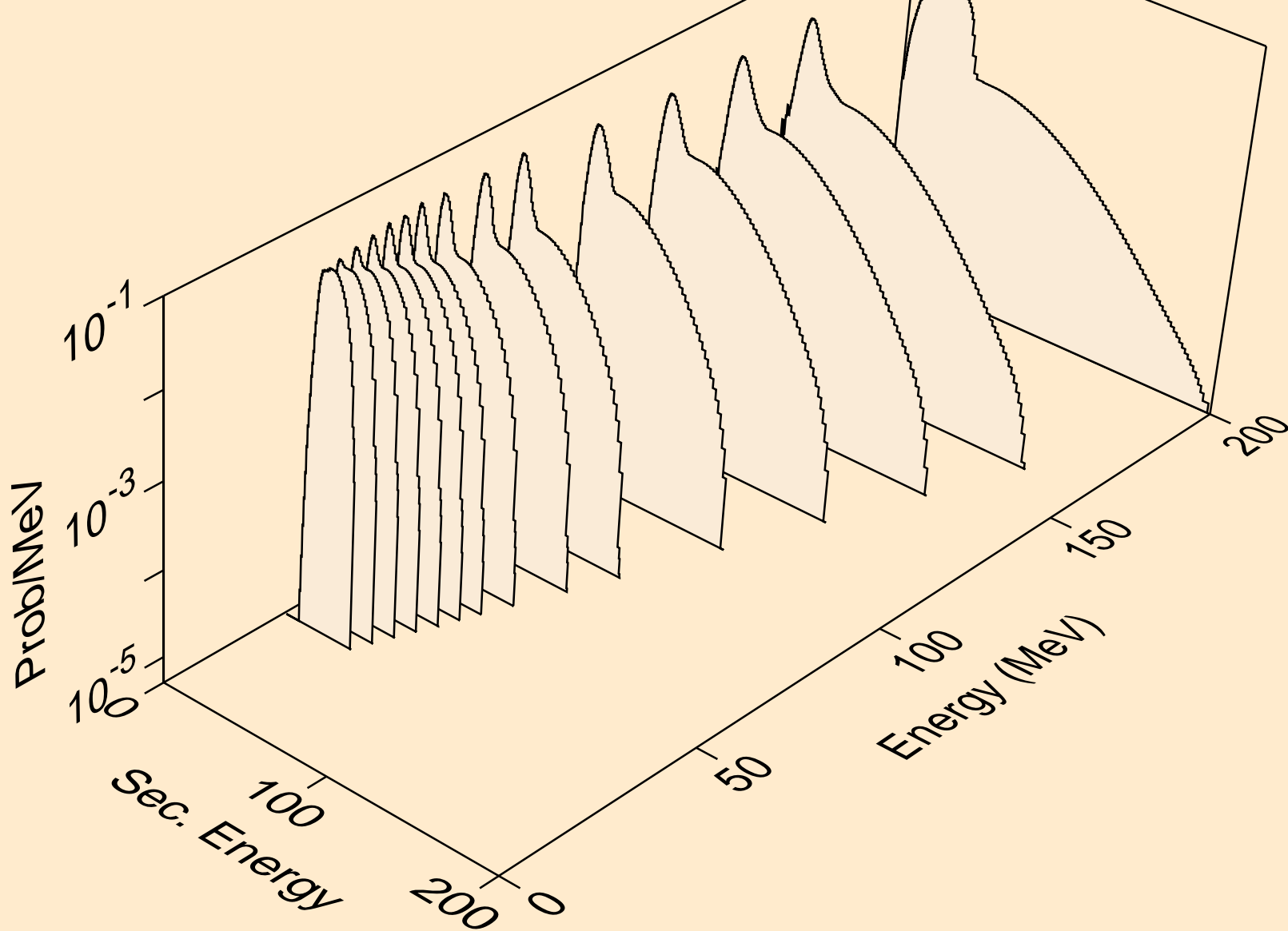


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he3s from (n,he3)

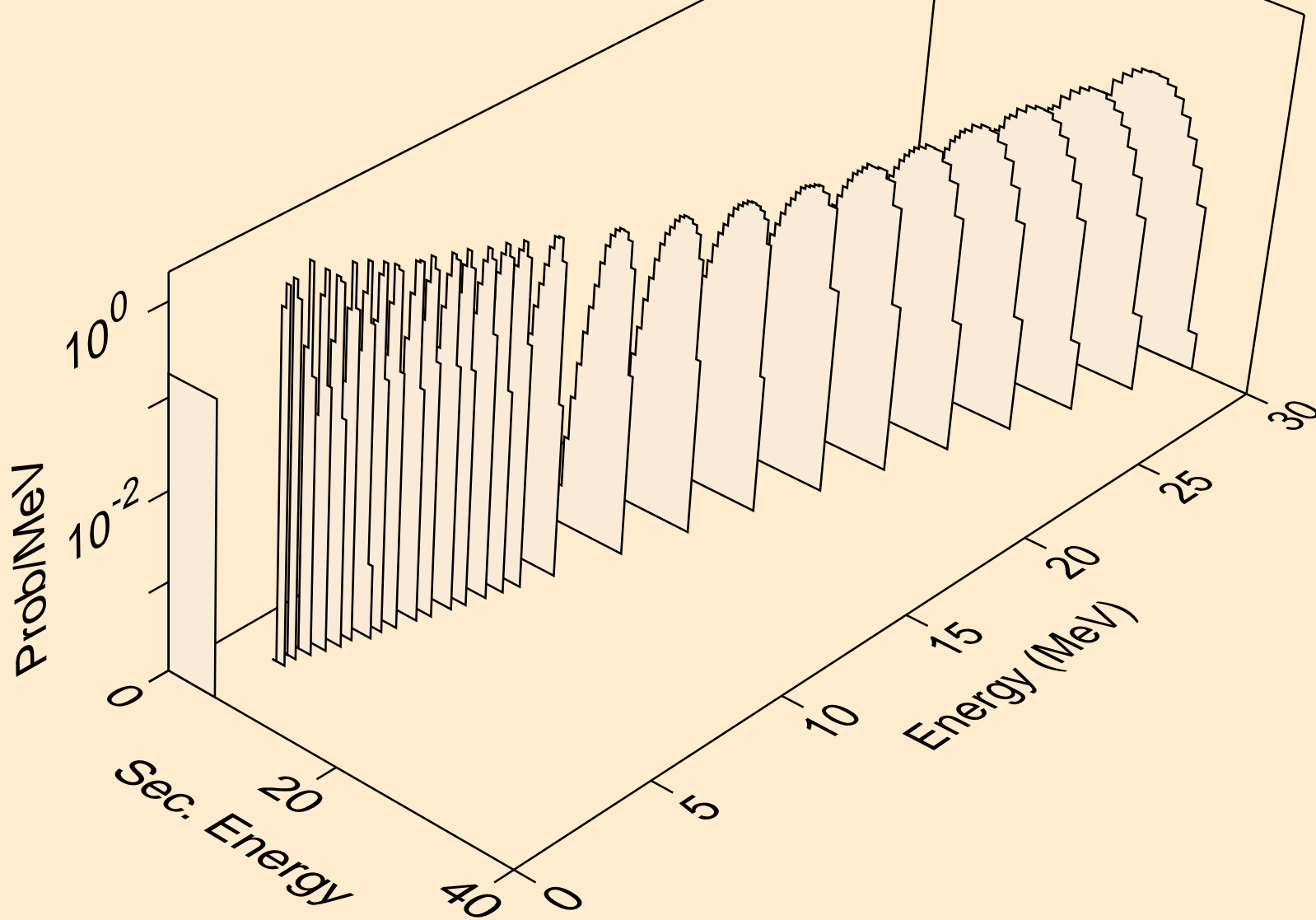




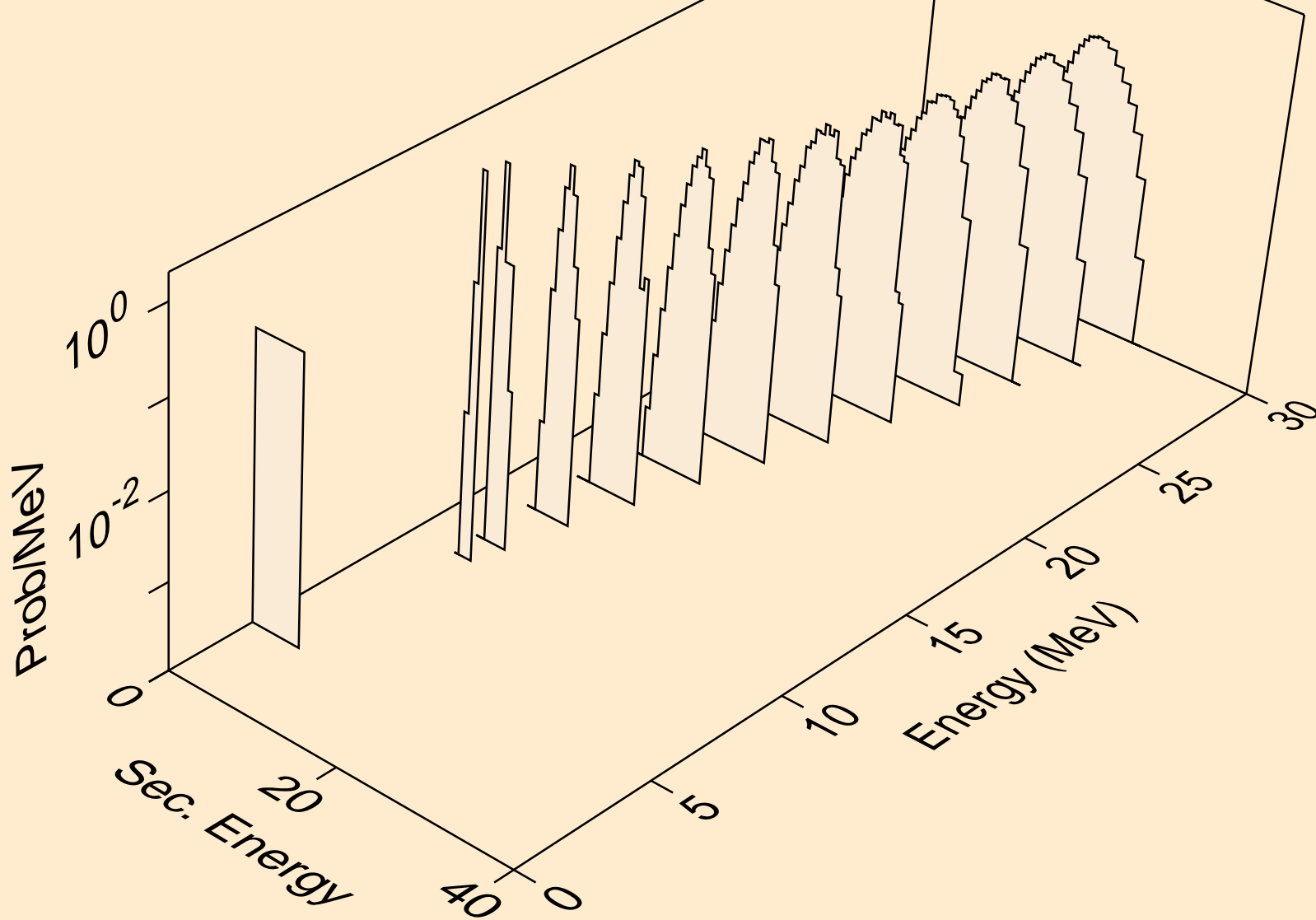
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alphas from (n,x)



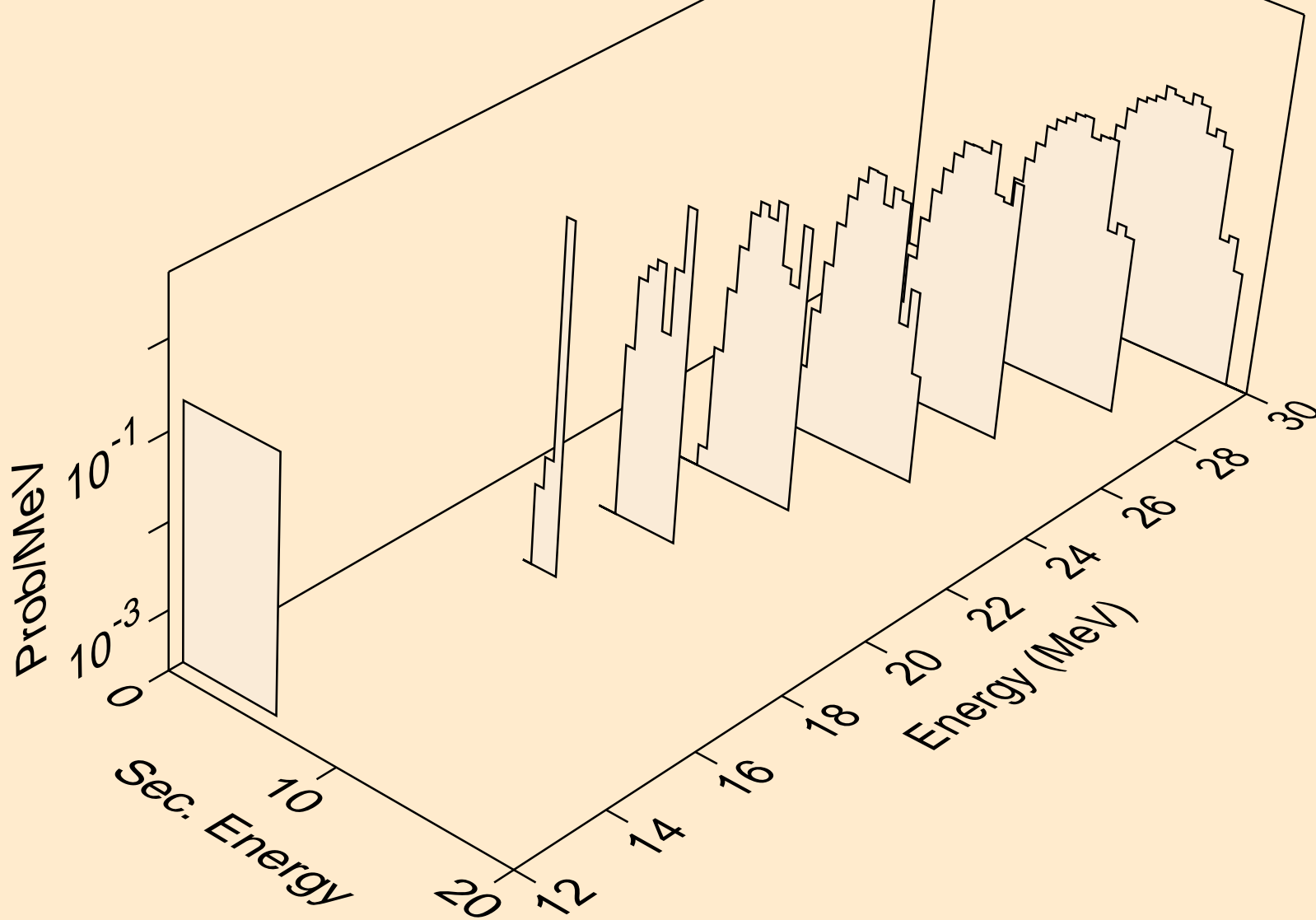
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alphas from (n,n\*)a



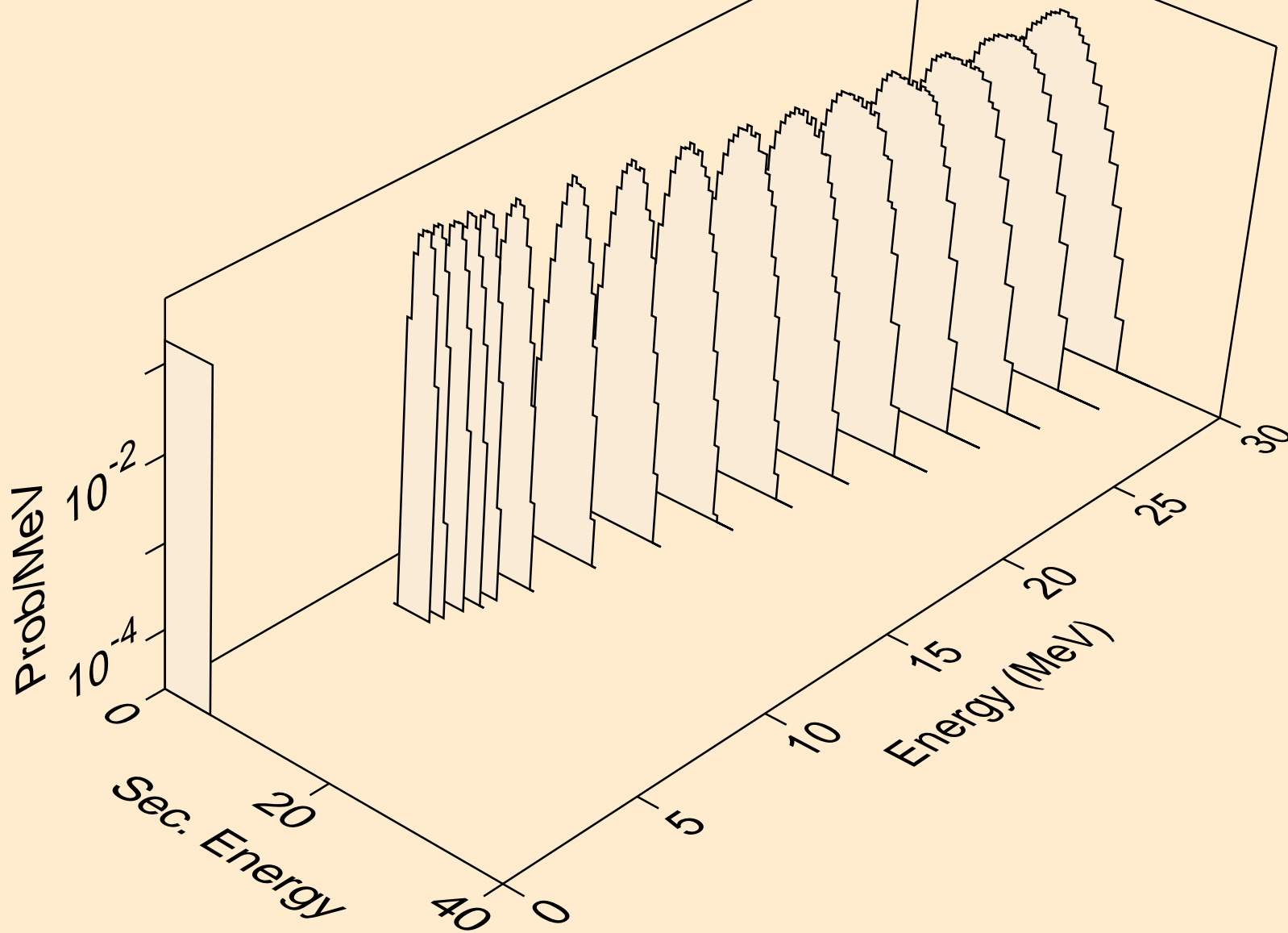
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alphas from (n,2n)a



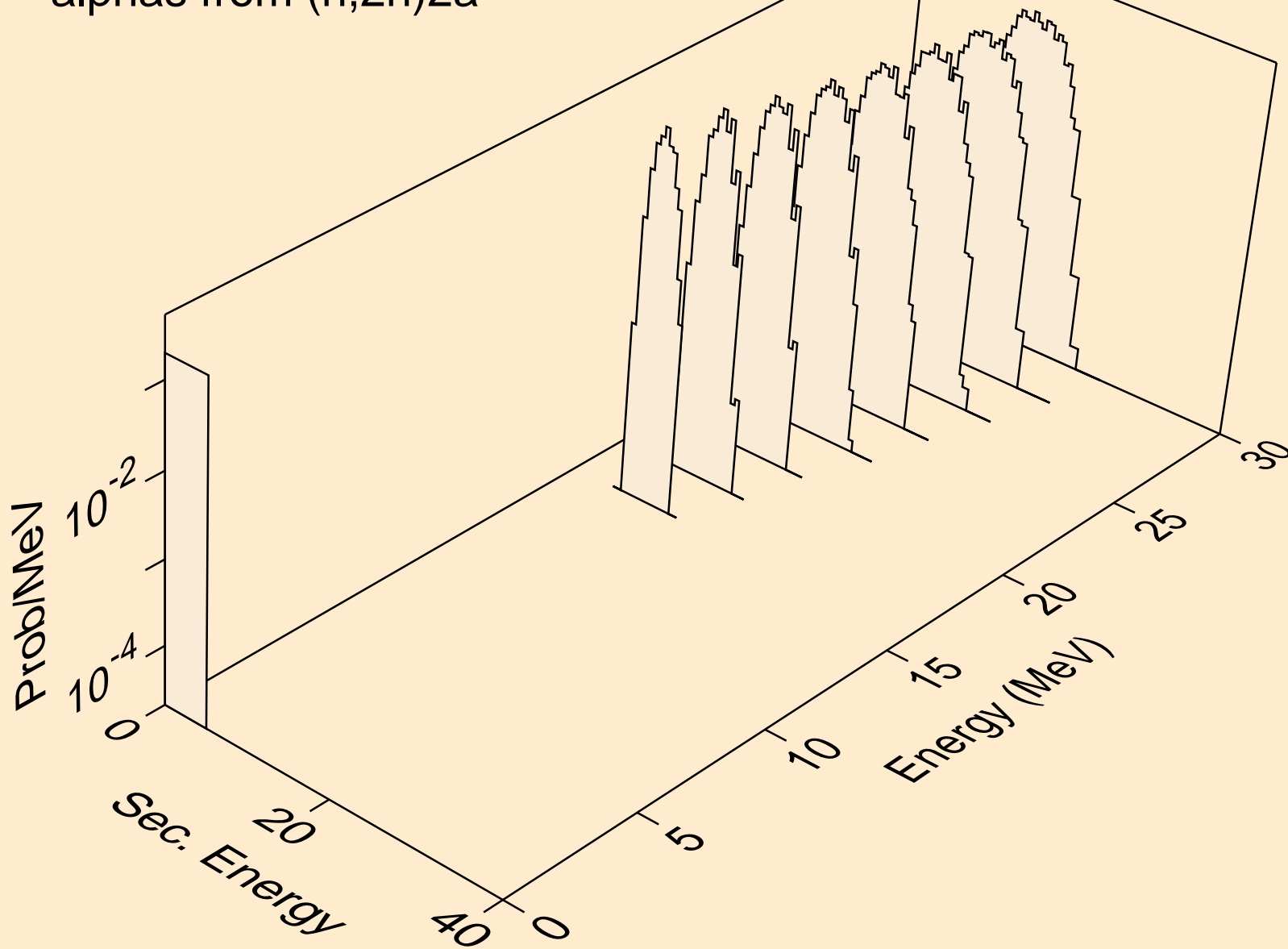
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alphas from (n,3n)a



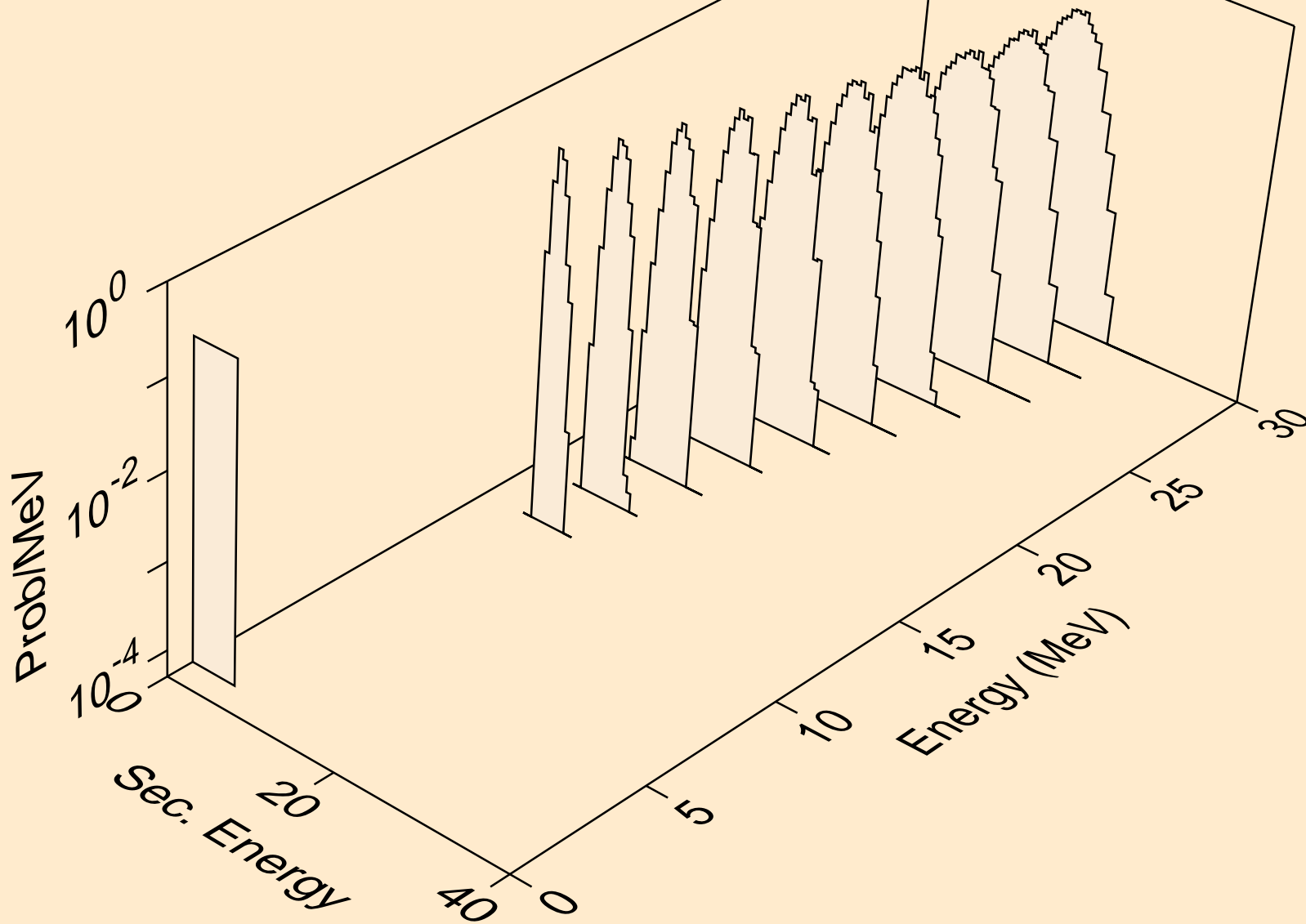
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alphas from (n,n\*)2a



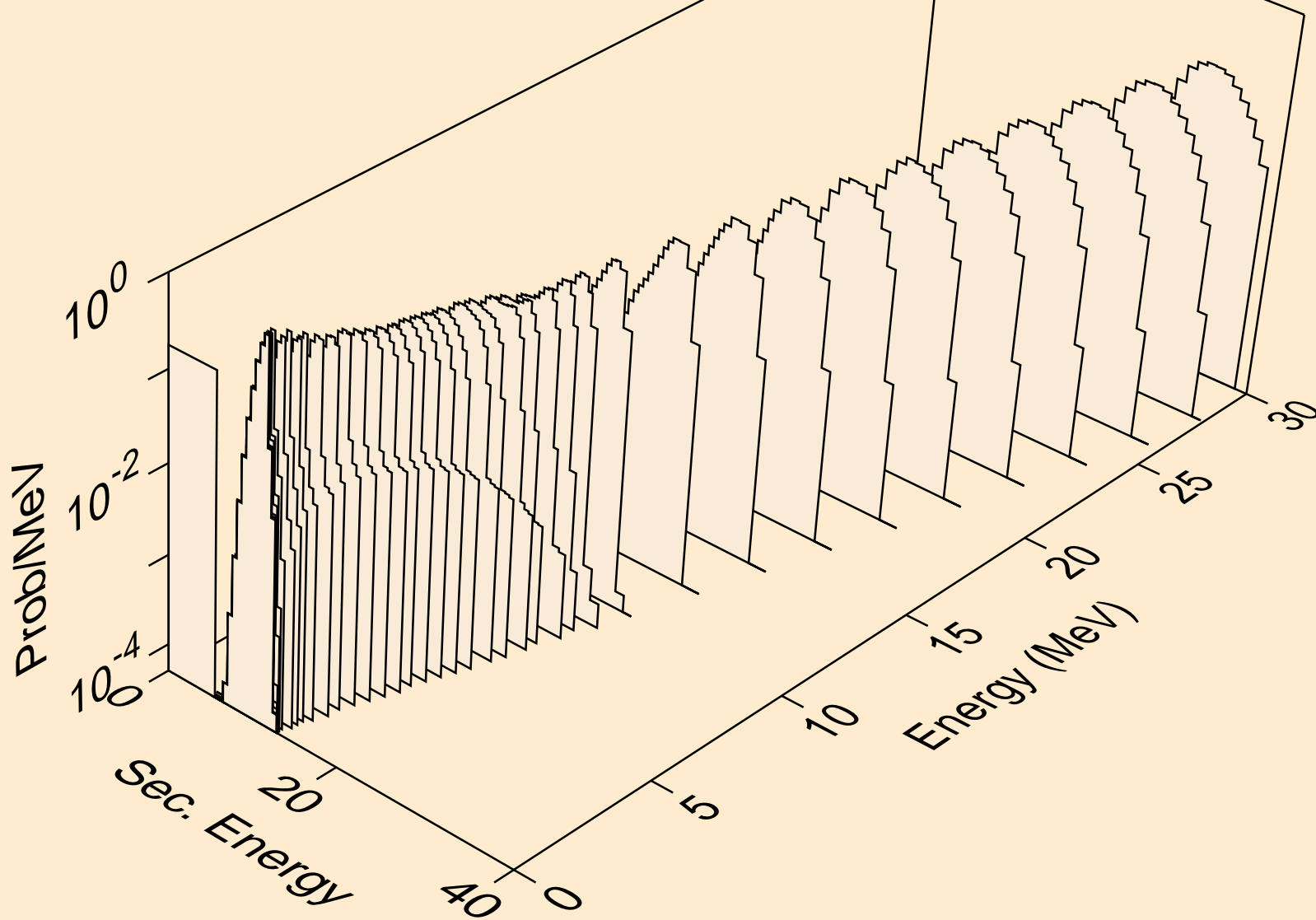
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alphas from (n,2n)2a



HG191M NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
alphas from (n,npa)

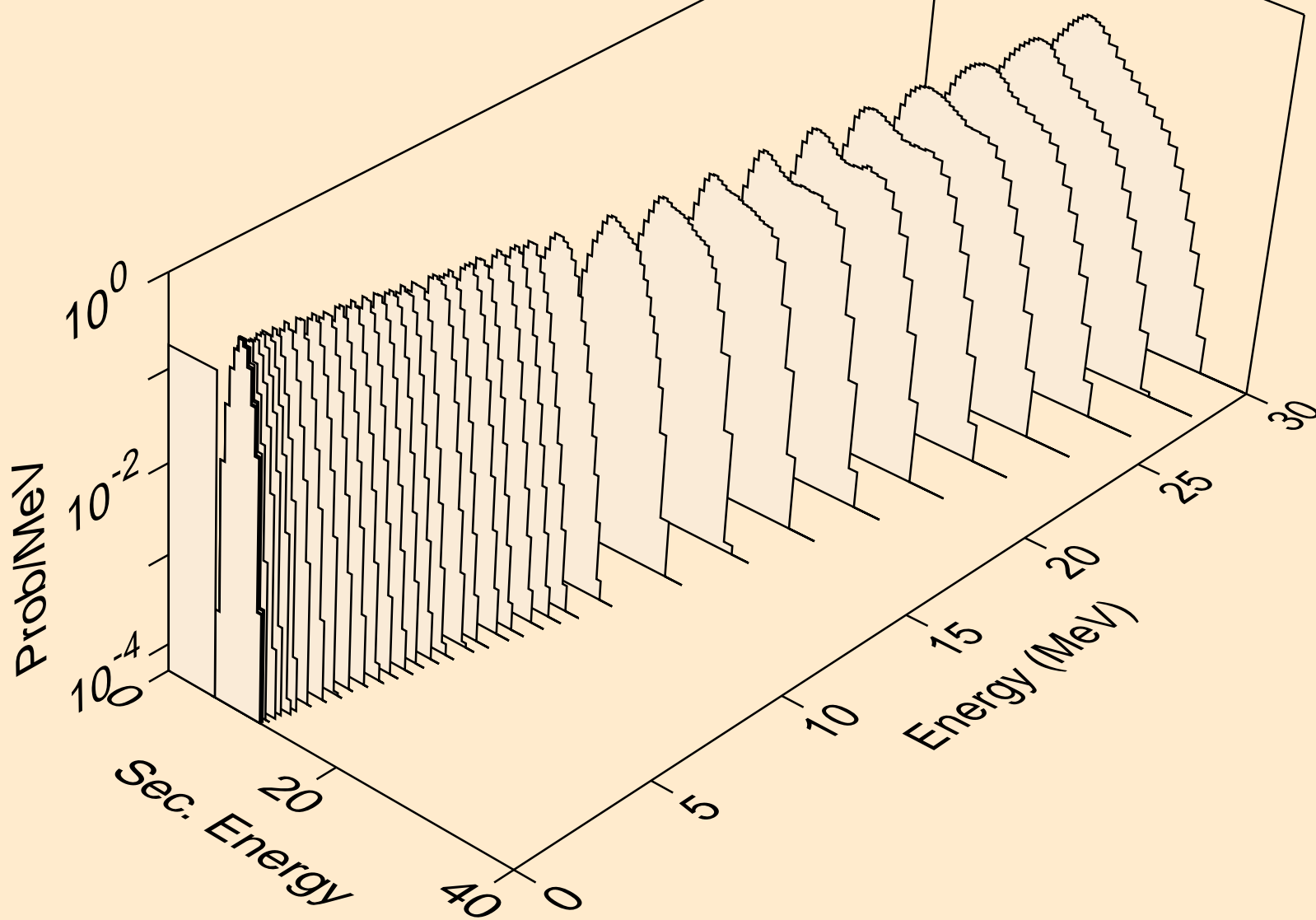


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alphas from (n,a)

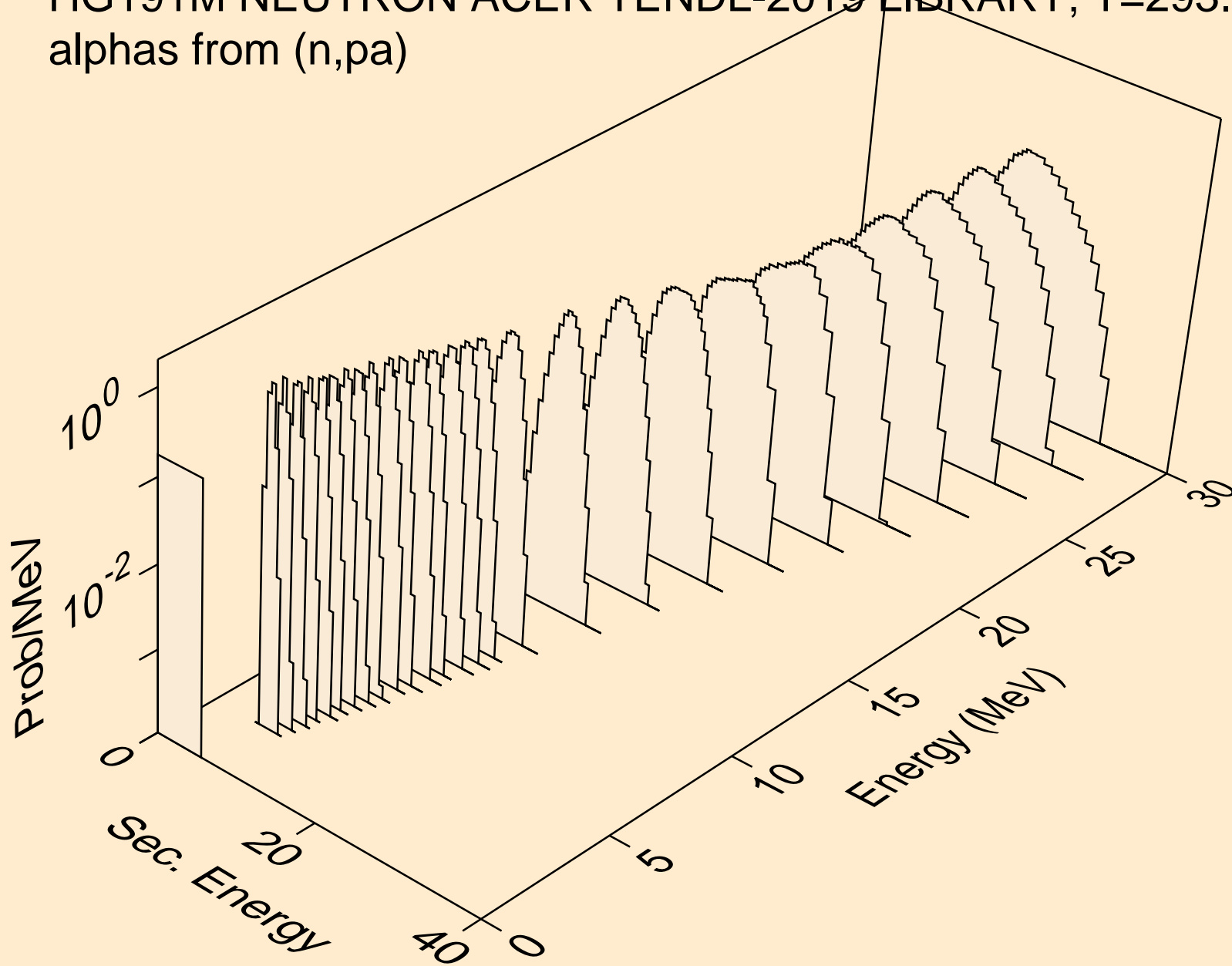




HG191M NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
alphas from (n,2a)



HG191M NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
alphas from (n,pa)



HG191M NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
alphas from (n,da)

