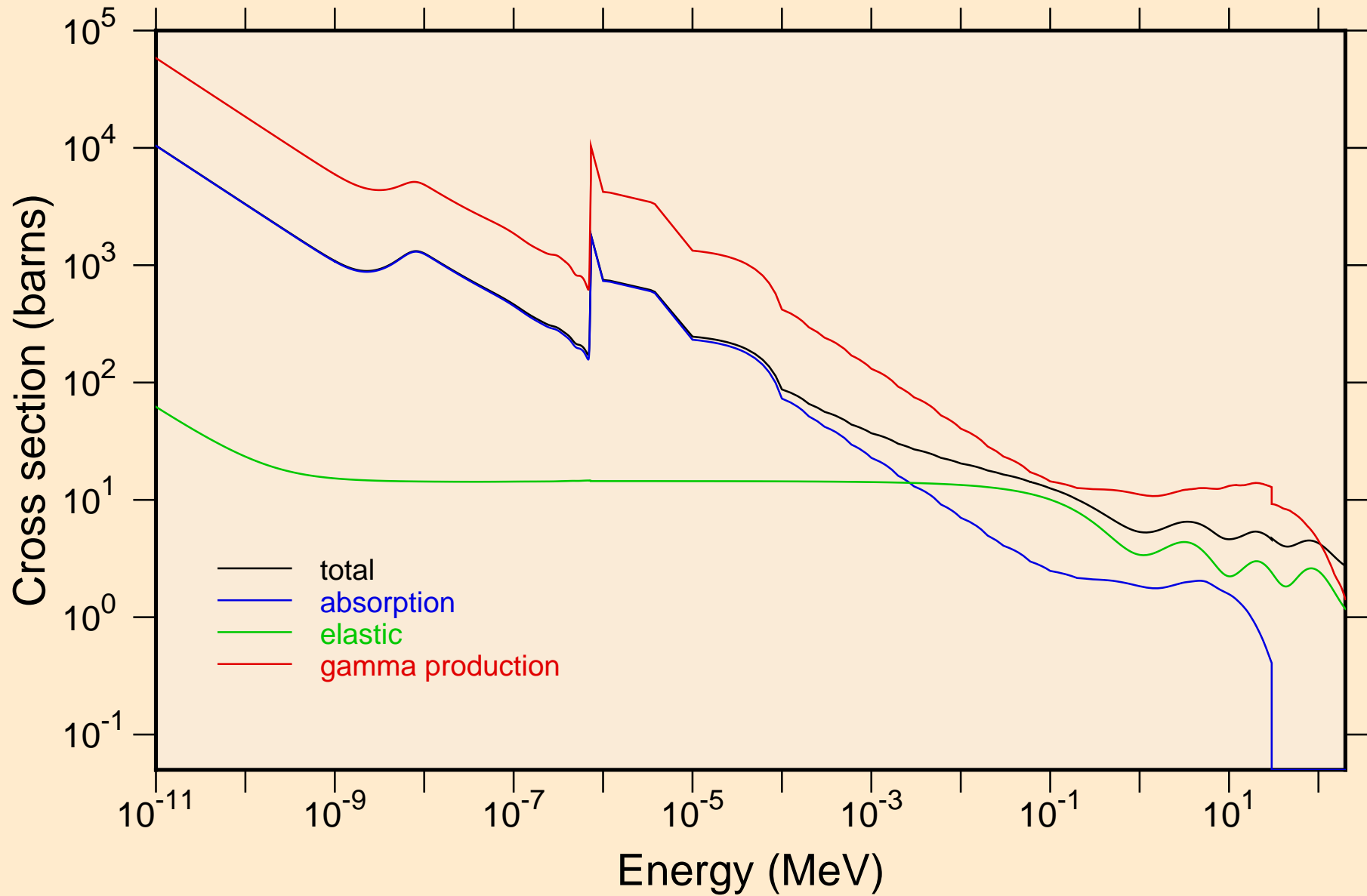
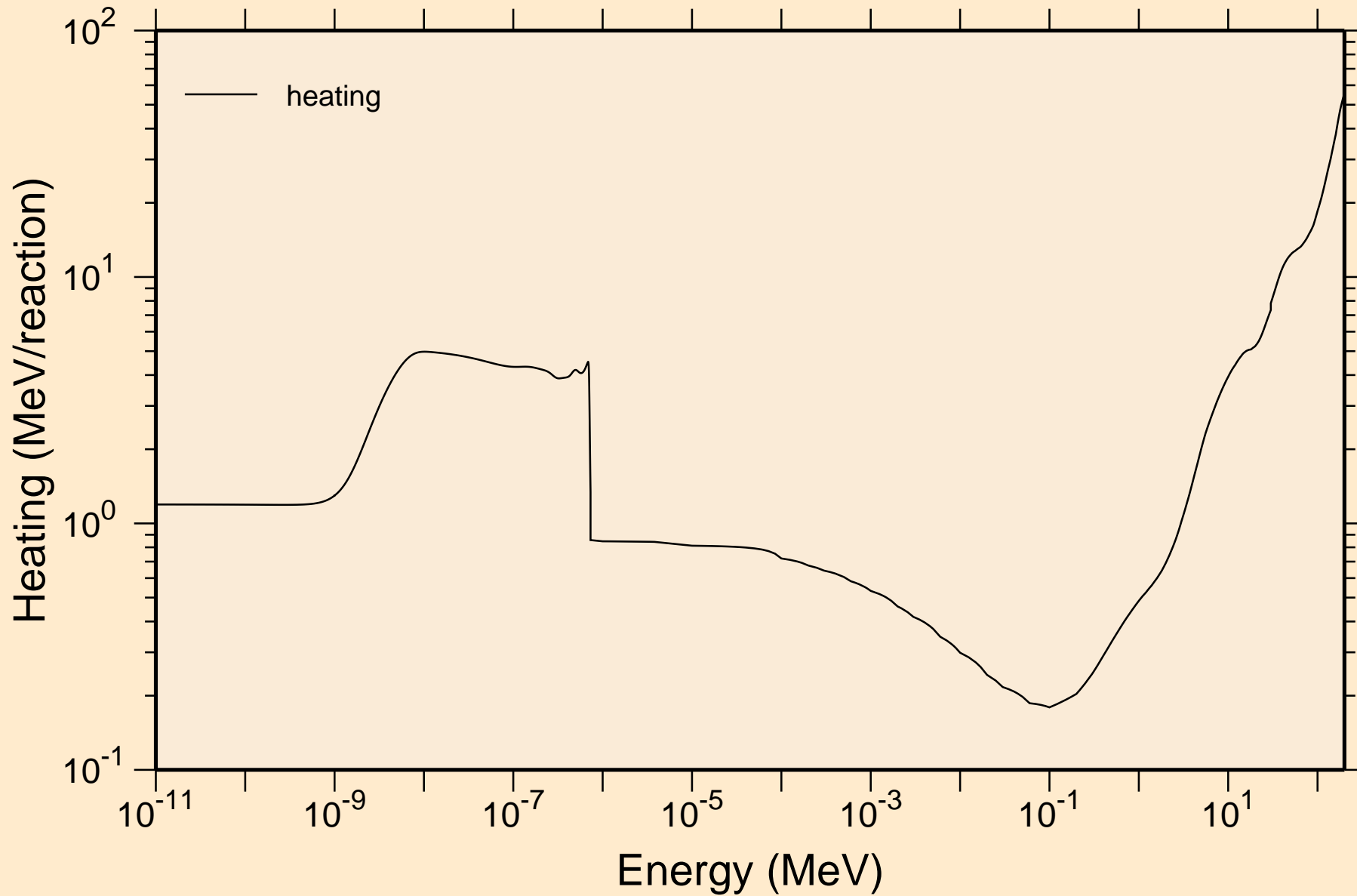


# HG179 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K

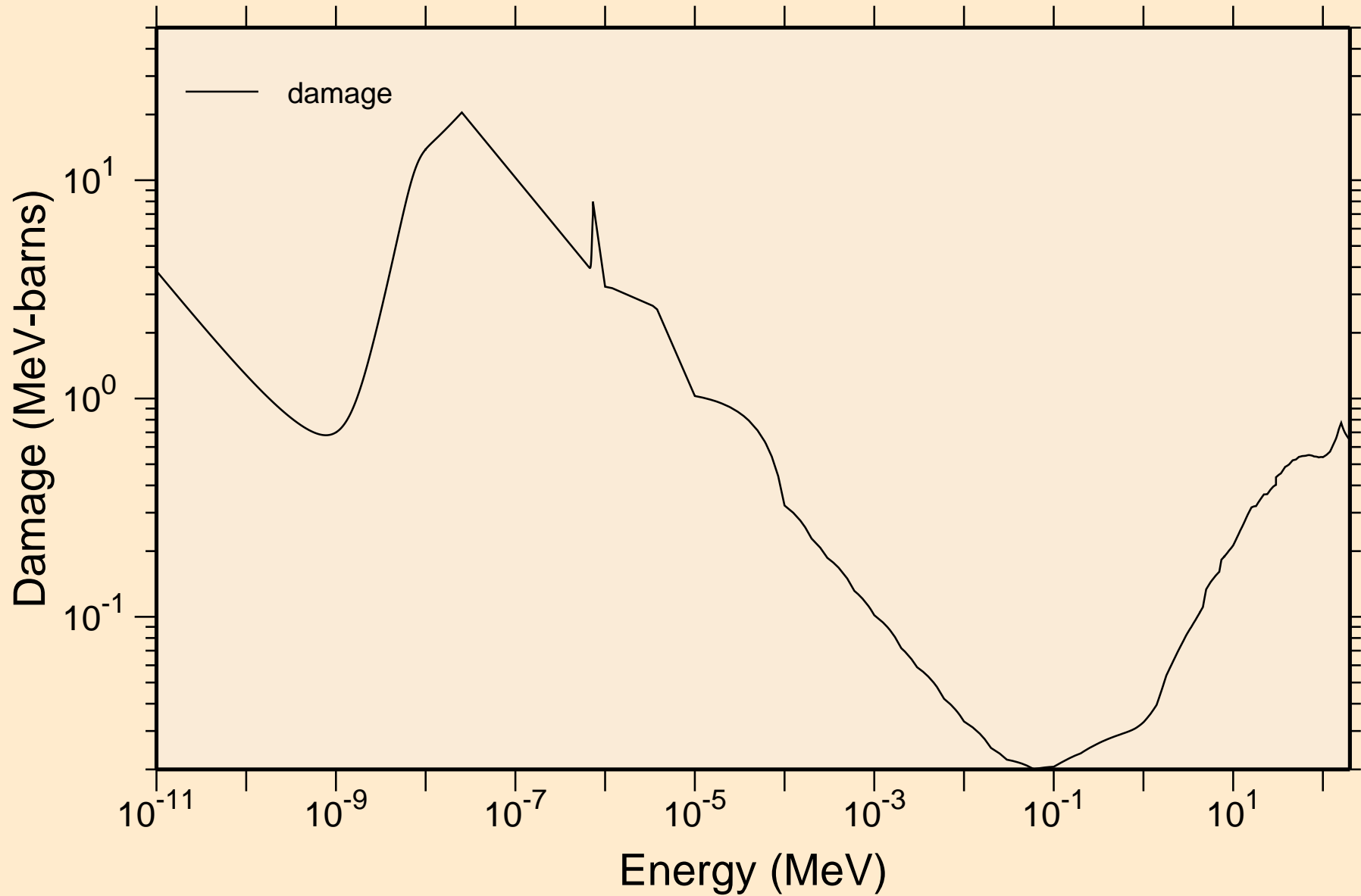
## Principal cross sections



HG179 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Heating

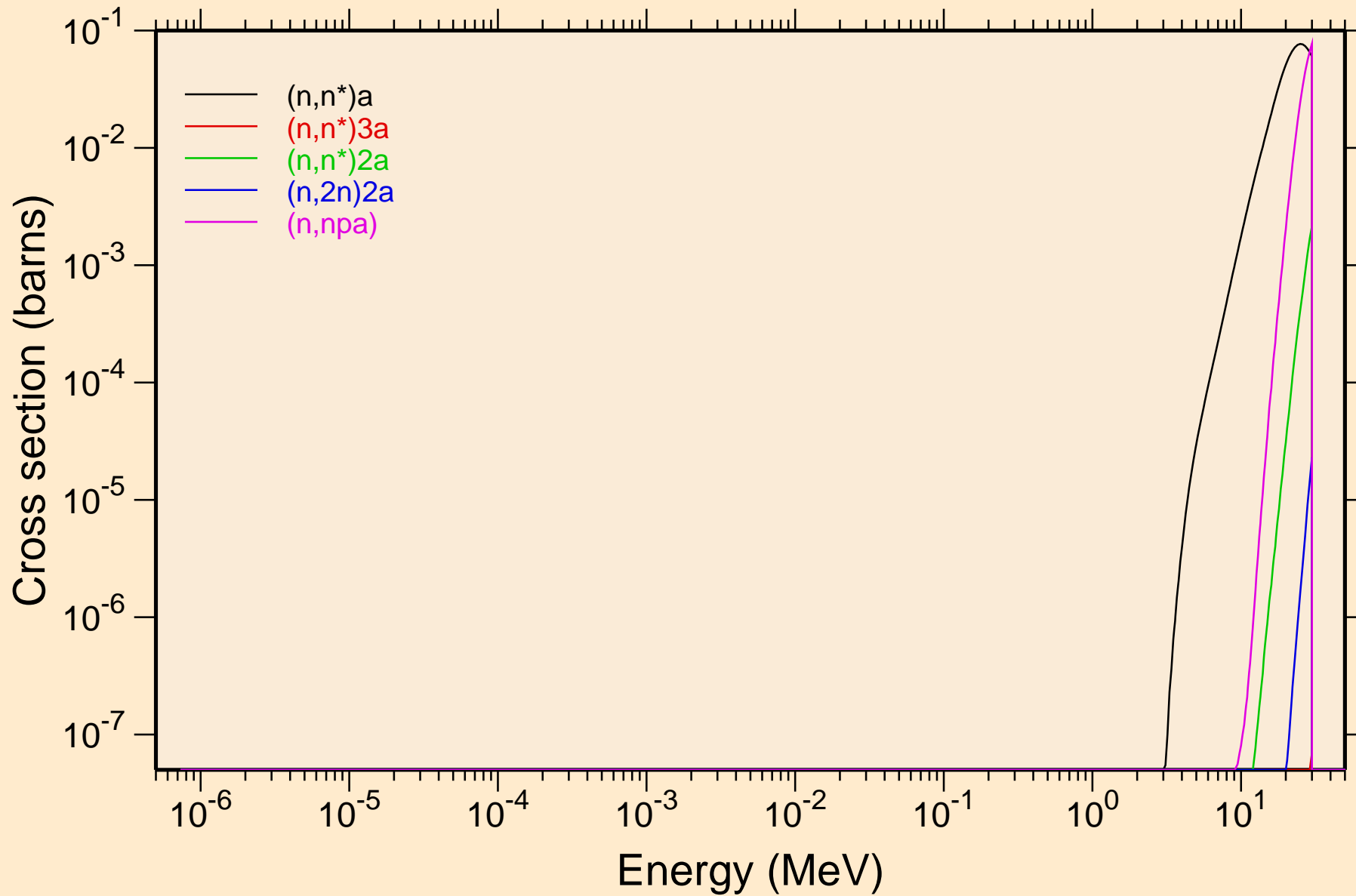


HG179 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Damage



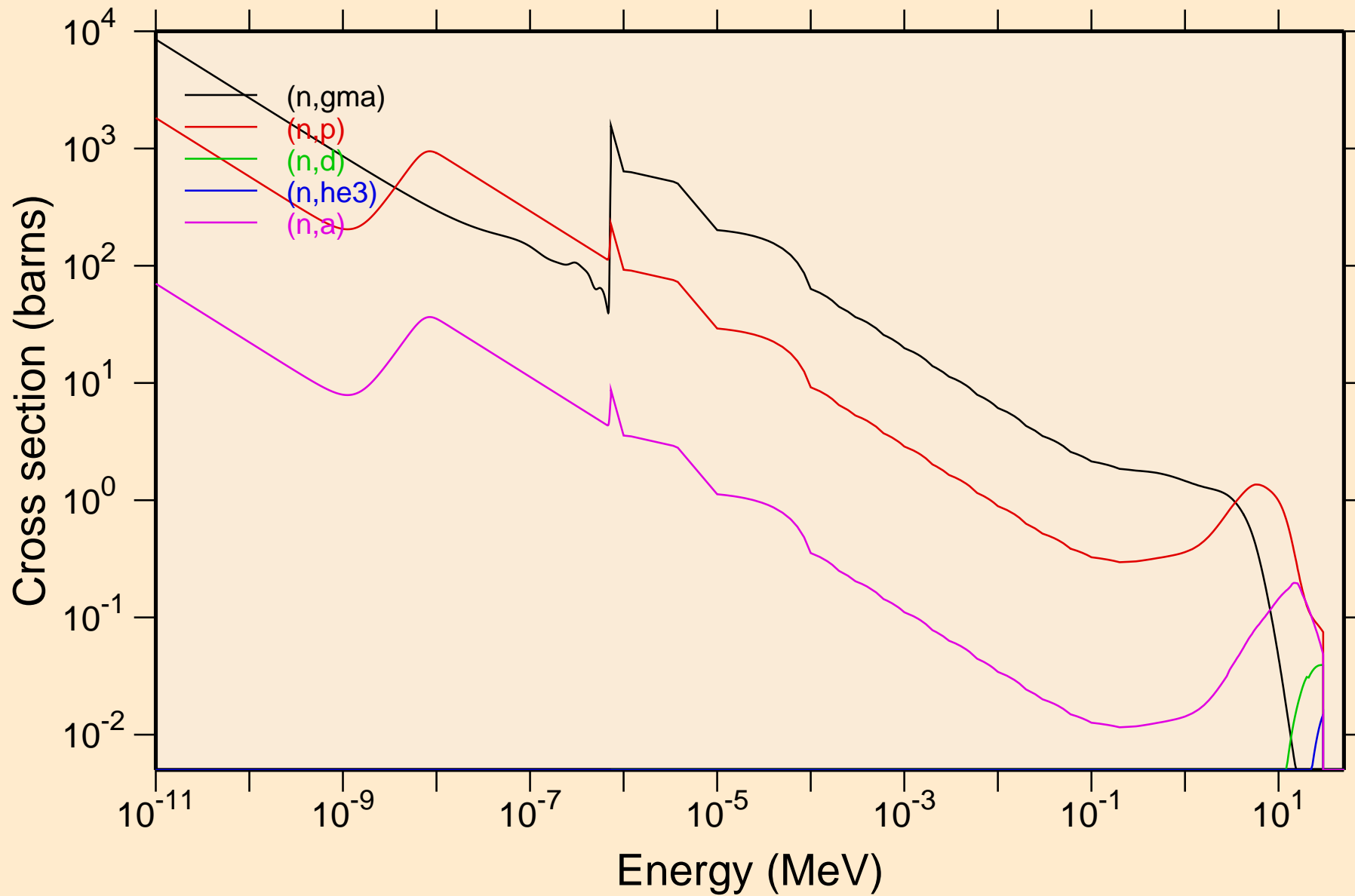
# HG179 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K

## Non-threshold reactions

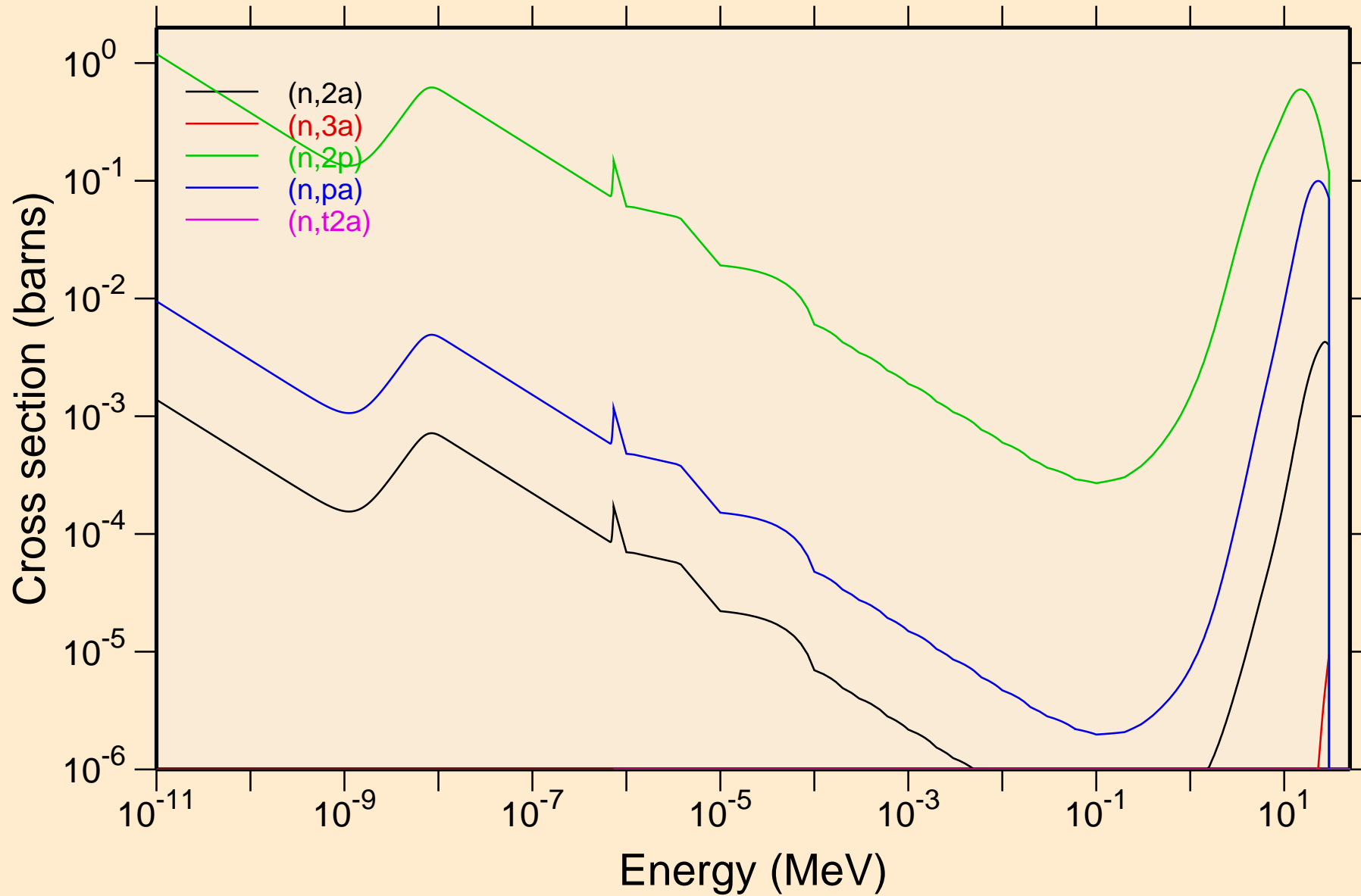


# HG179 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K

## Non-threshold reactions

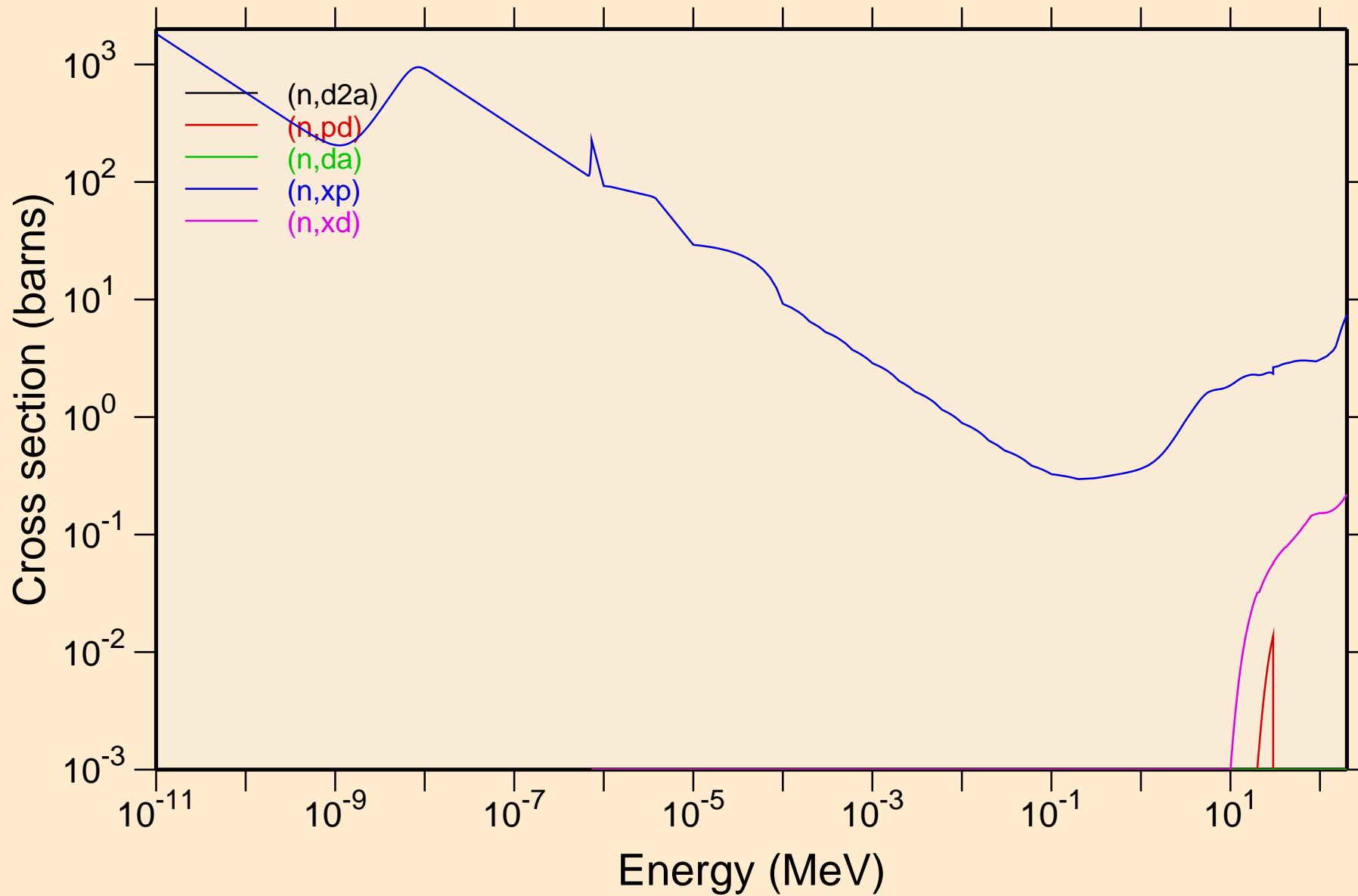


HG179 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Non-threshold reactions

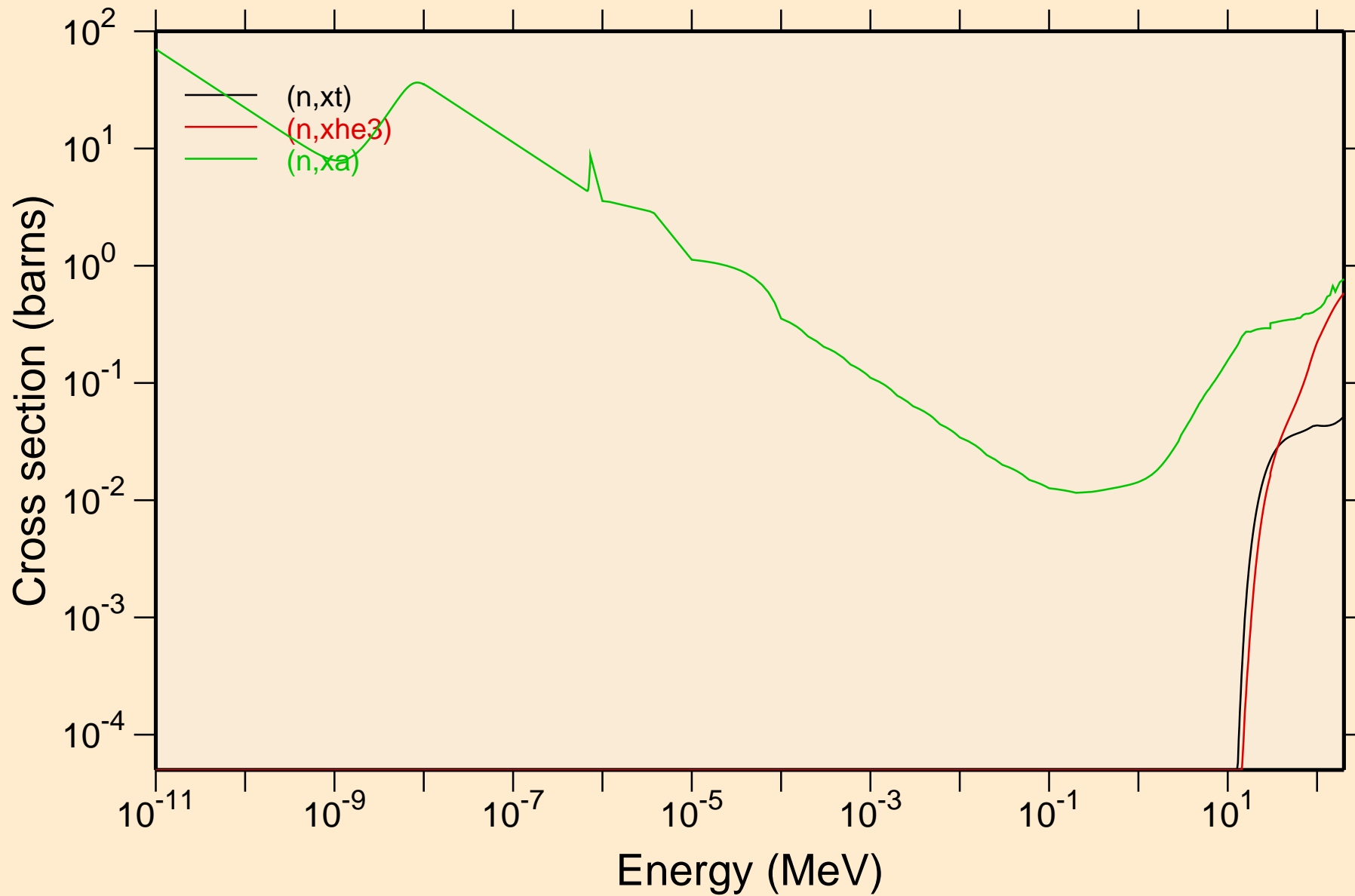


# HG179 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K

## Non-threshold reactions



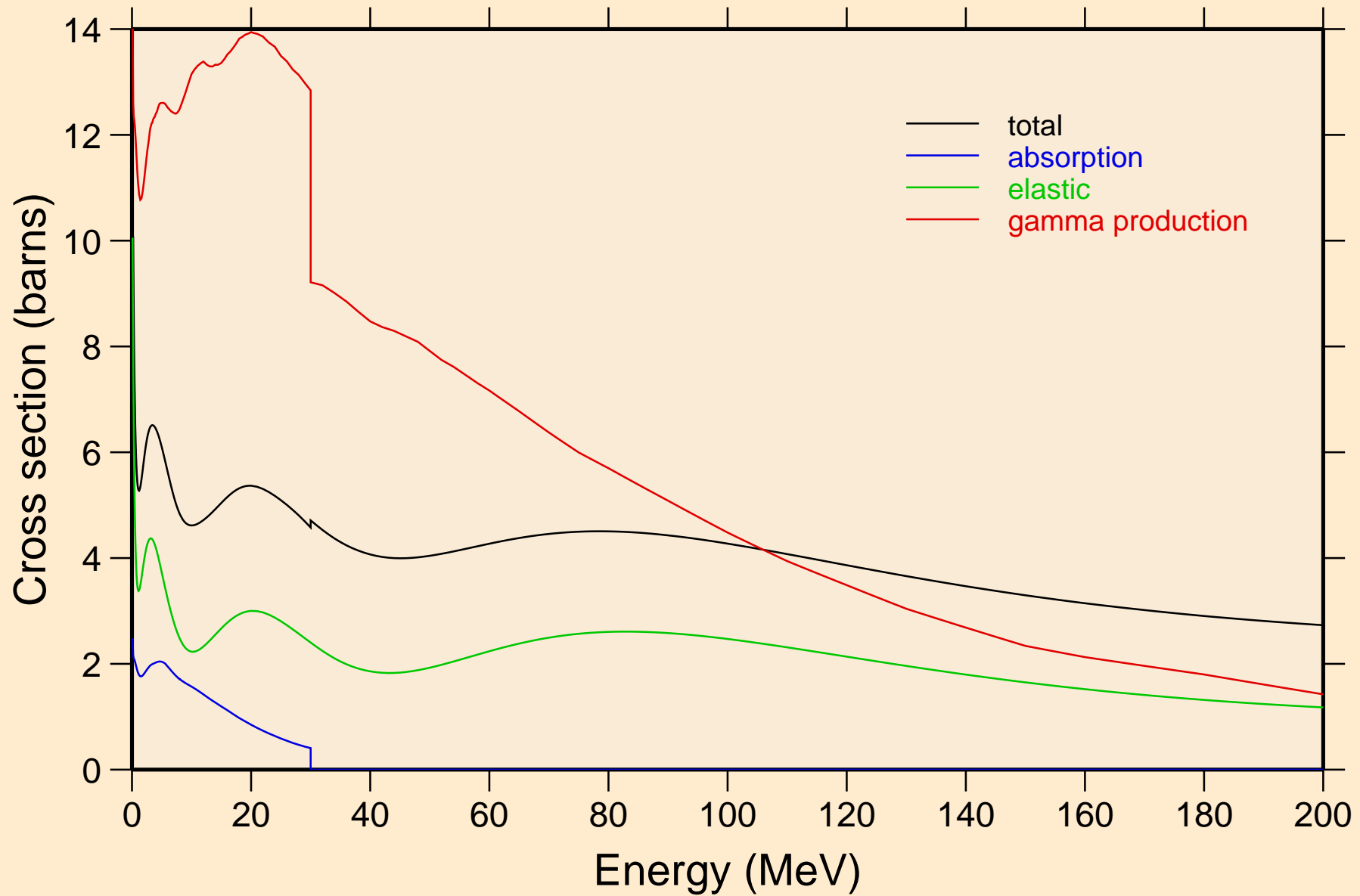
HG179 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Non-threshold reactions



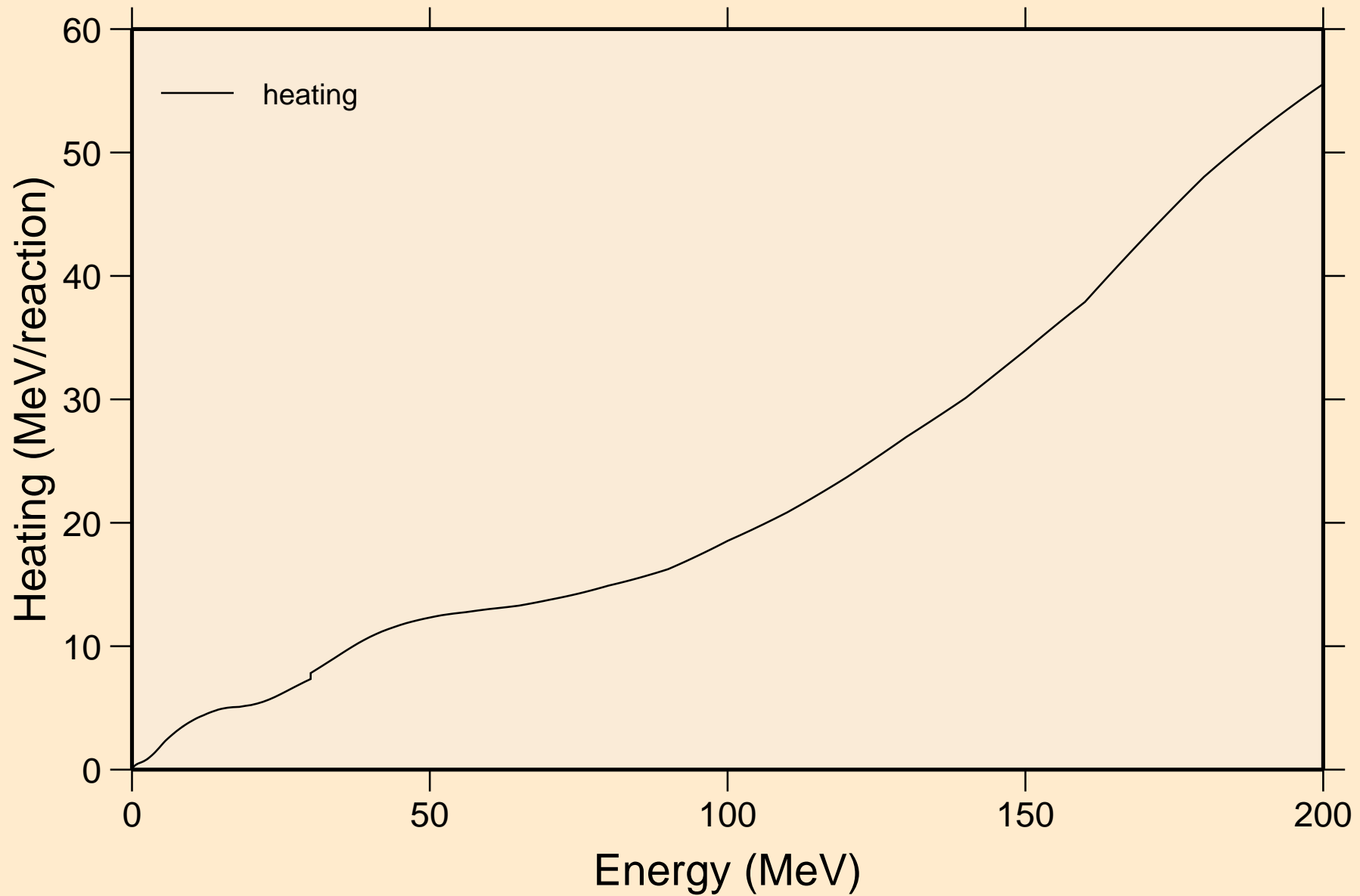


# HG179 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K

## Principal cross sections

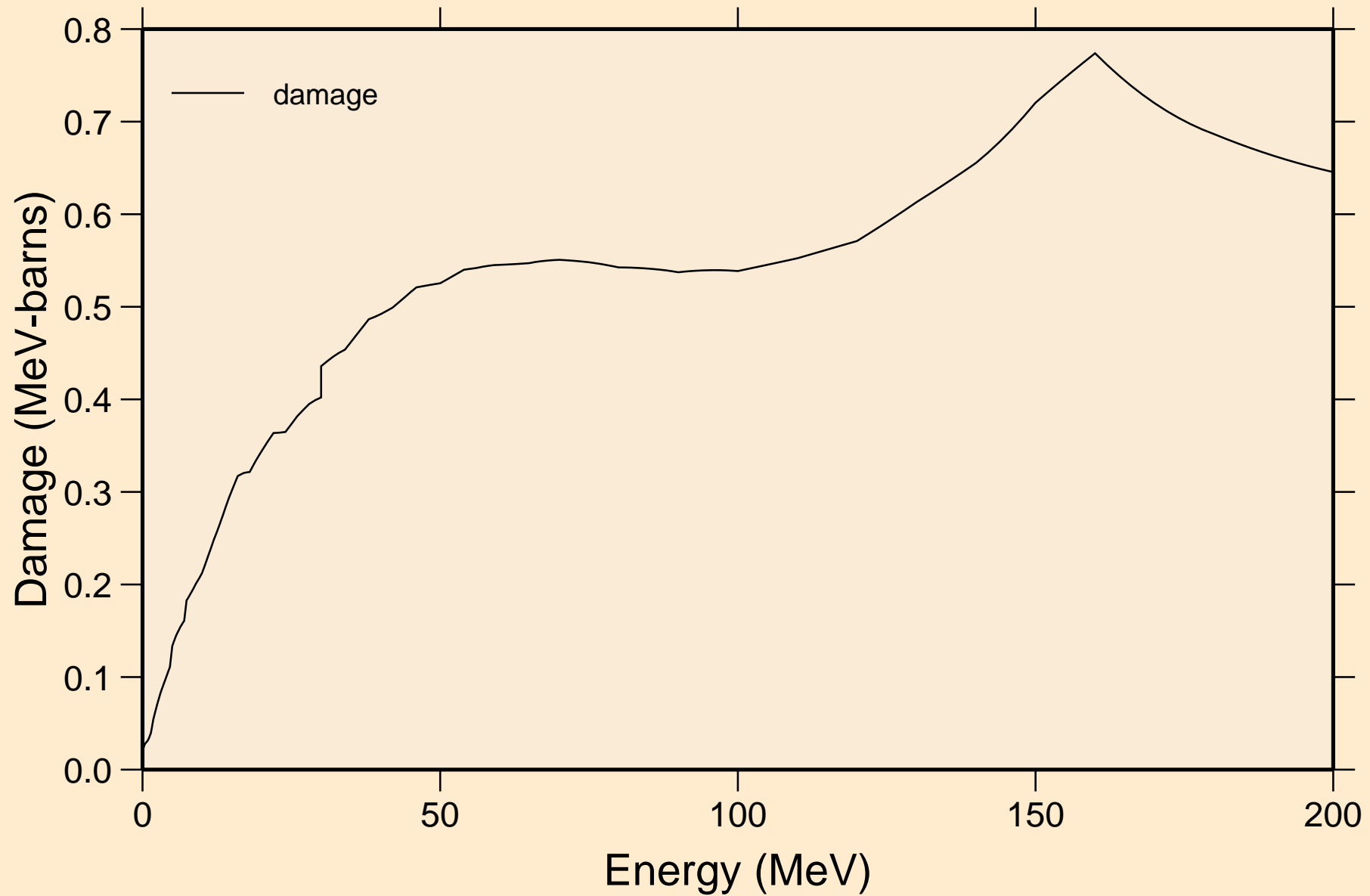


HG179 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Heating



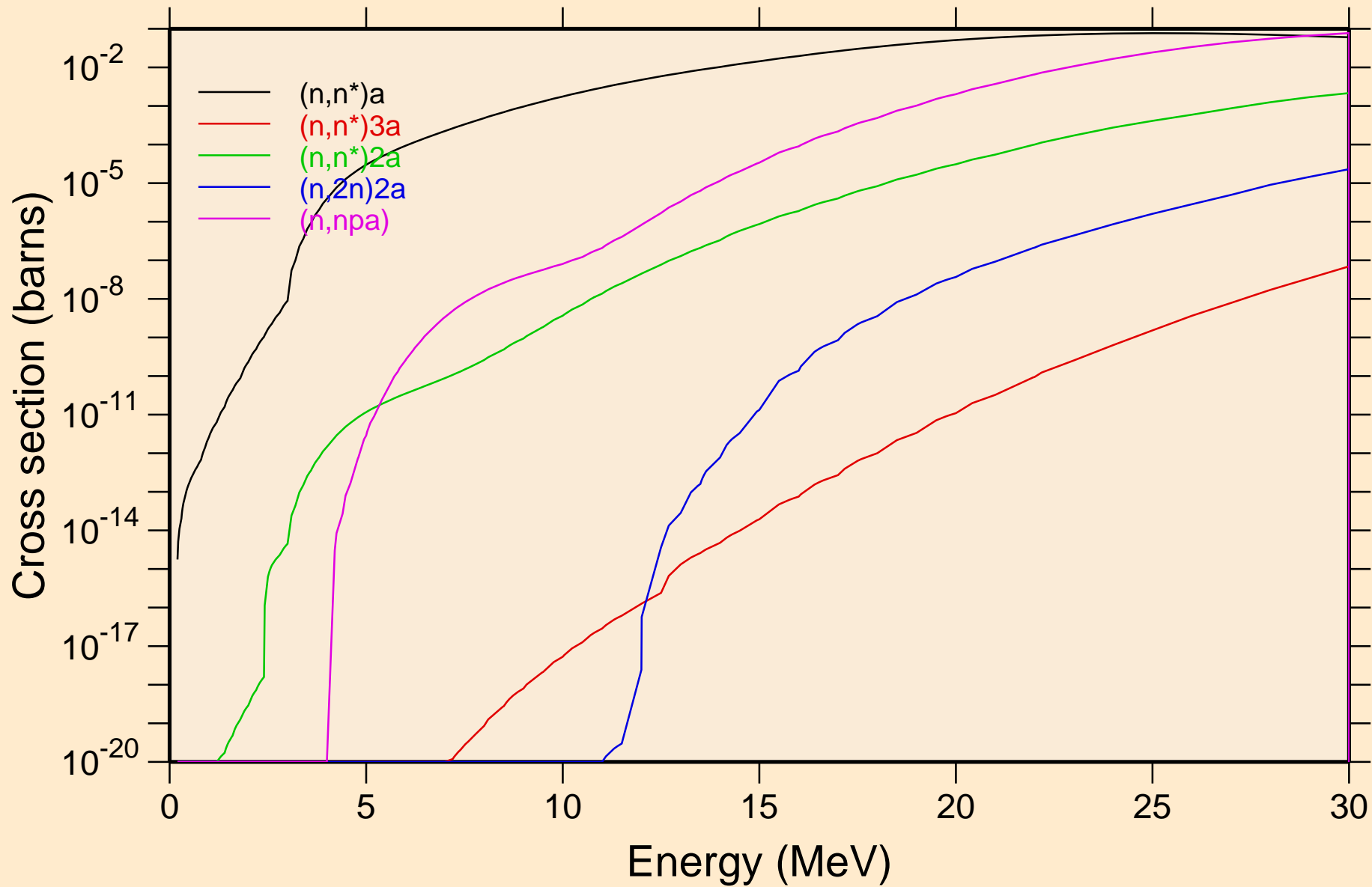
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## Damage



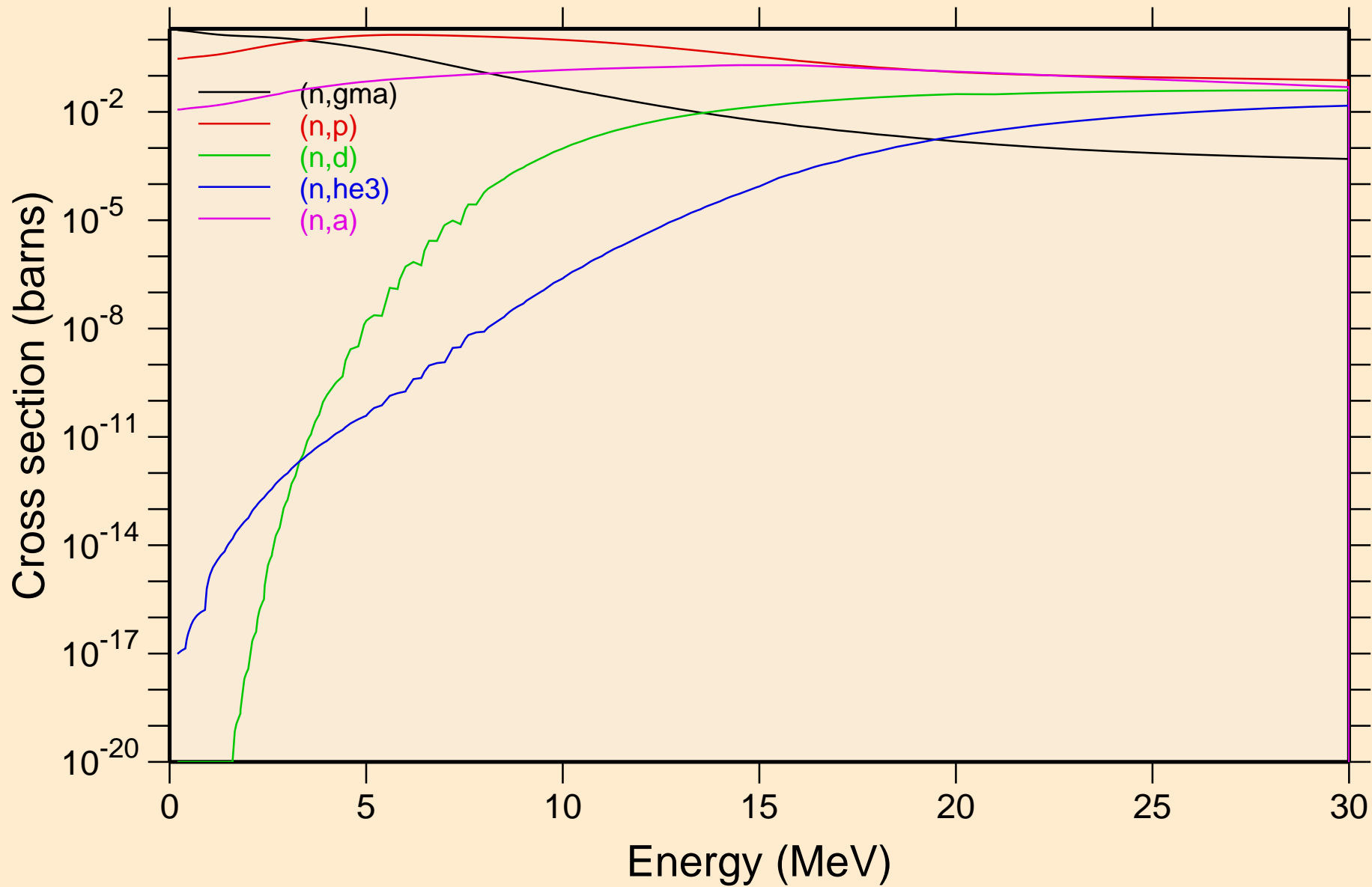
# HG179 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K

## Non-threshold reactions



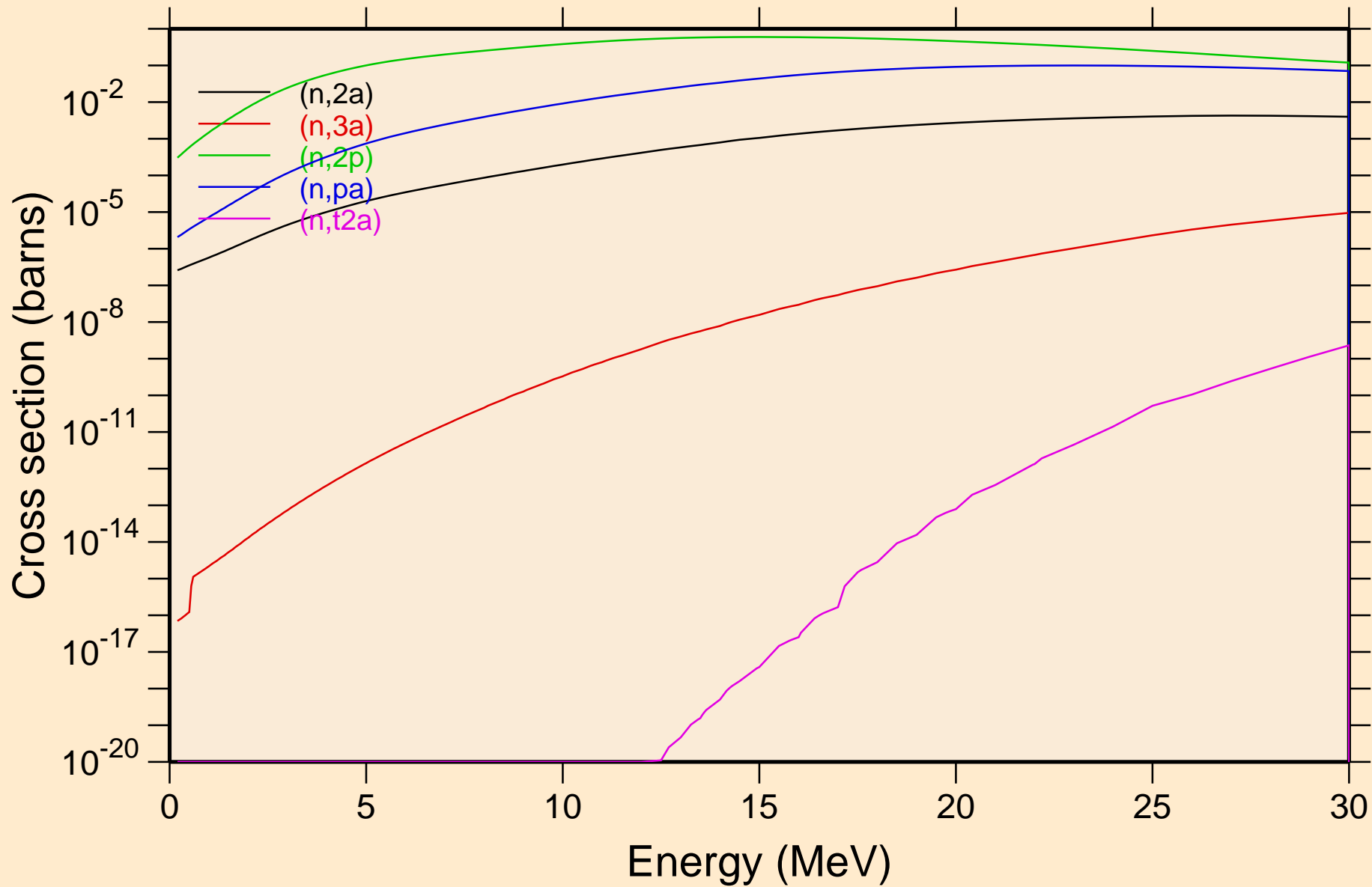
# HG179 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K

## Non-threshold reactions



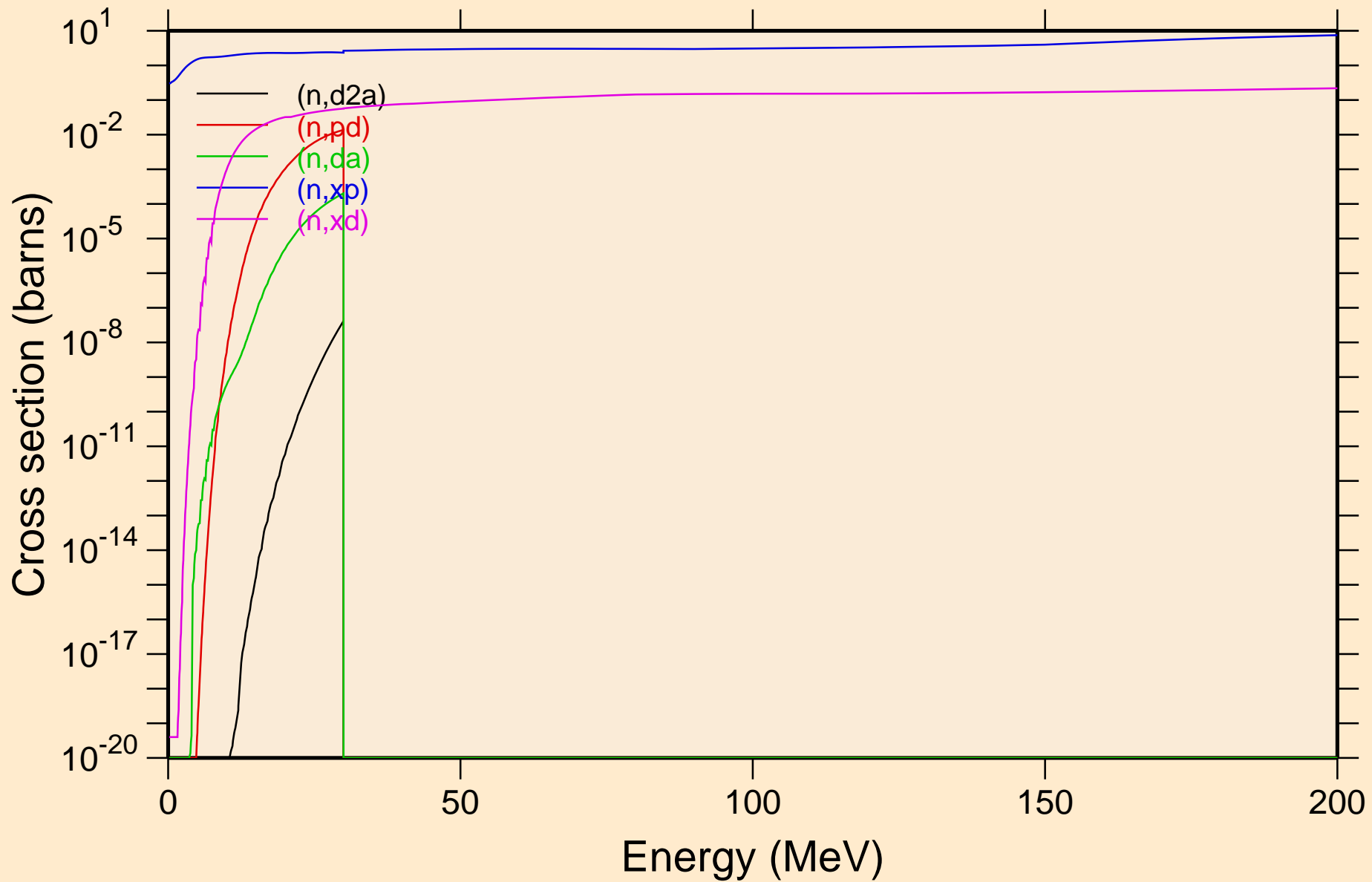
# HG179 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K

## Non-threshold reactions

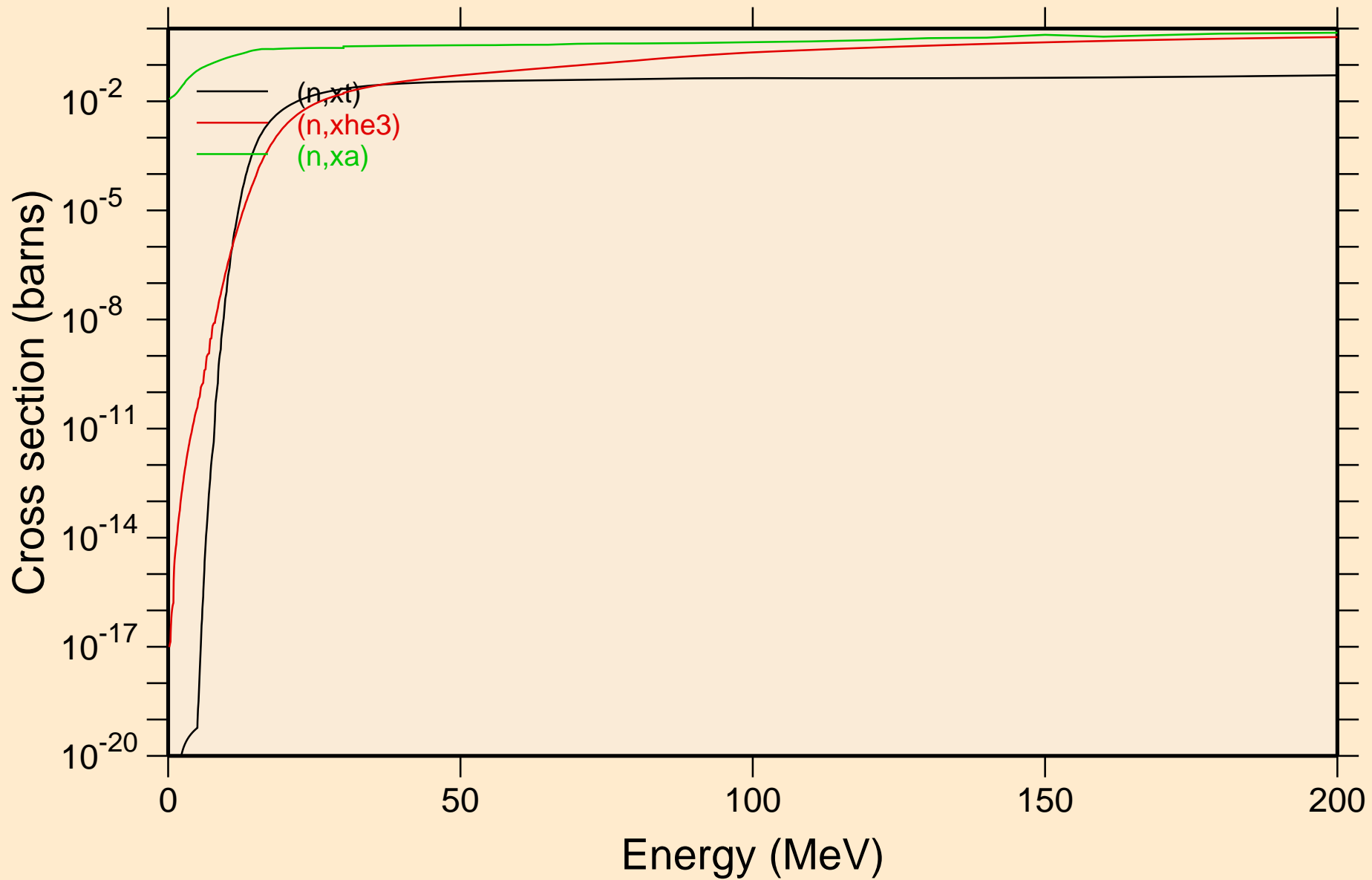


# HG179 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K

## Non-threshold reactions

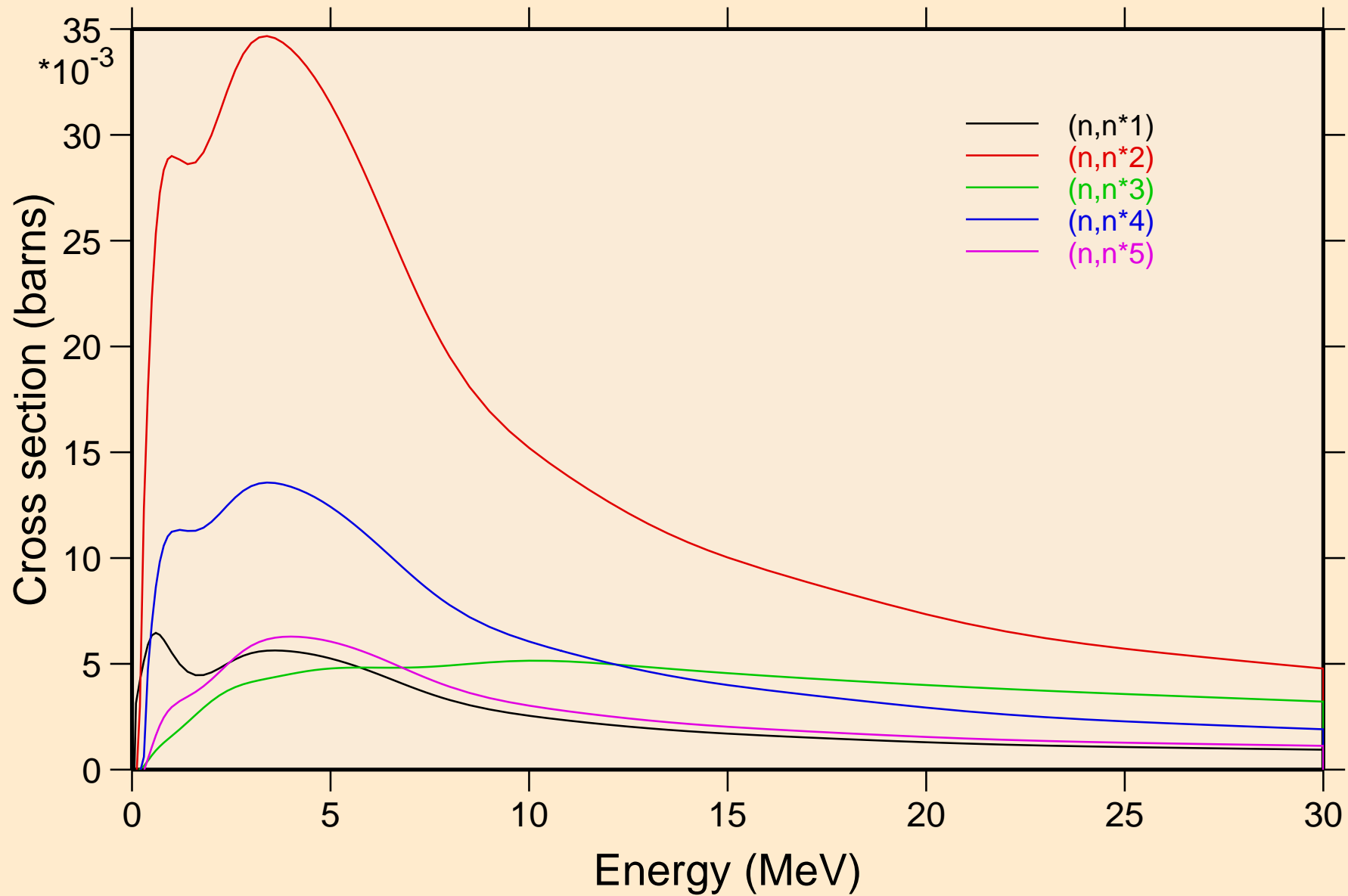


HG179 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Non-threshold reactions

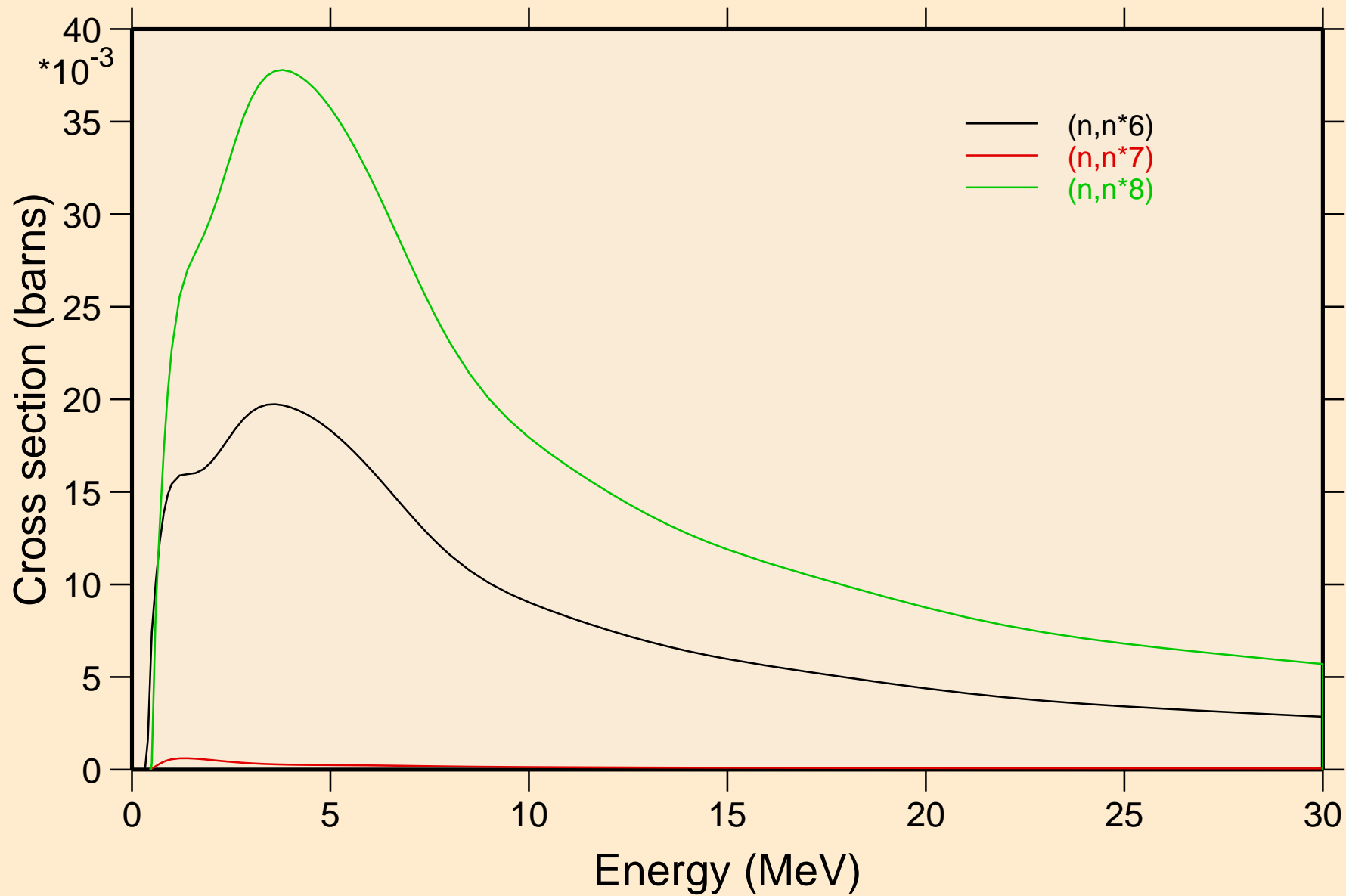




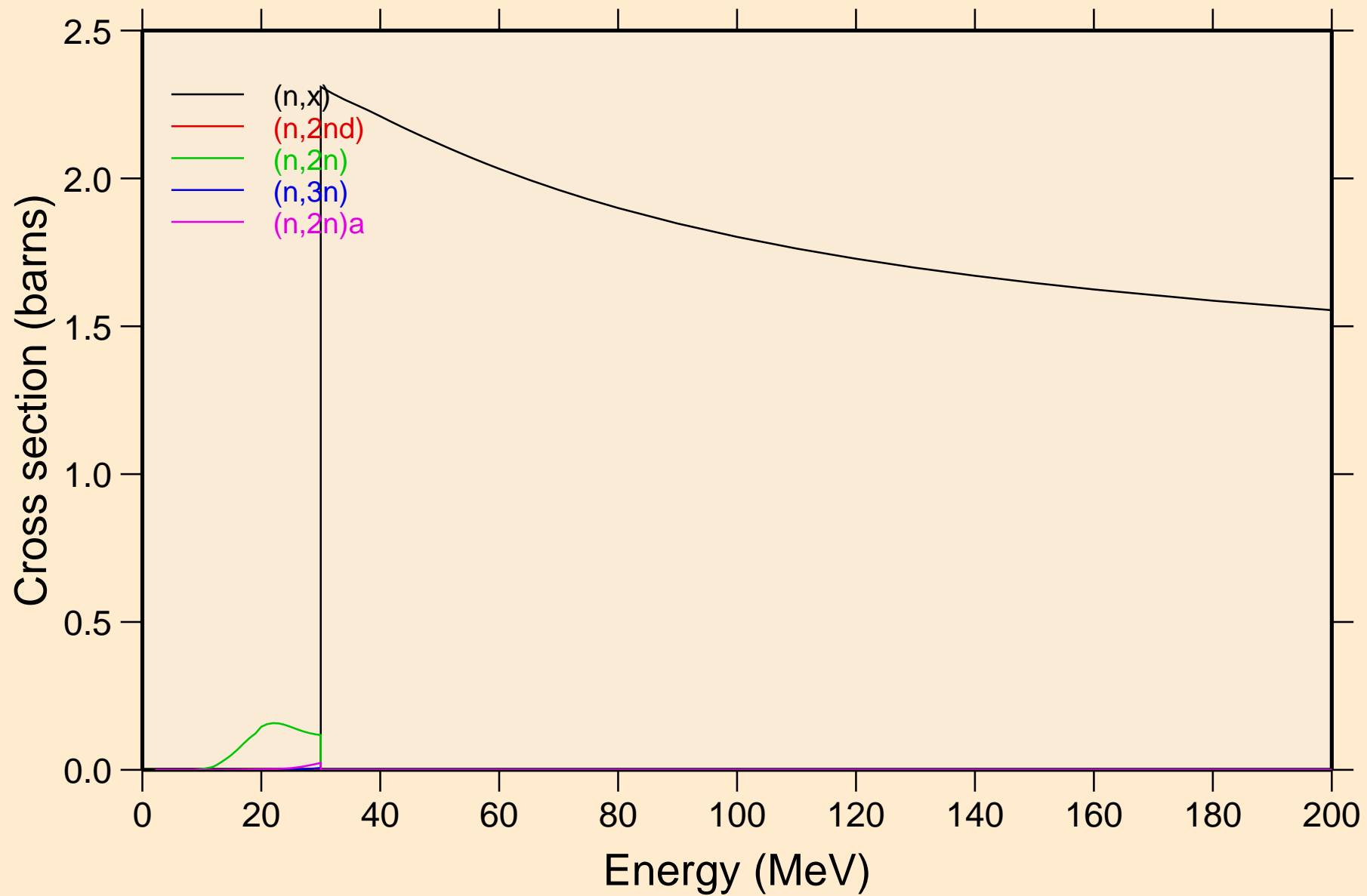
HG179 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Inelastic levels



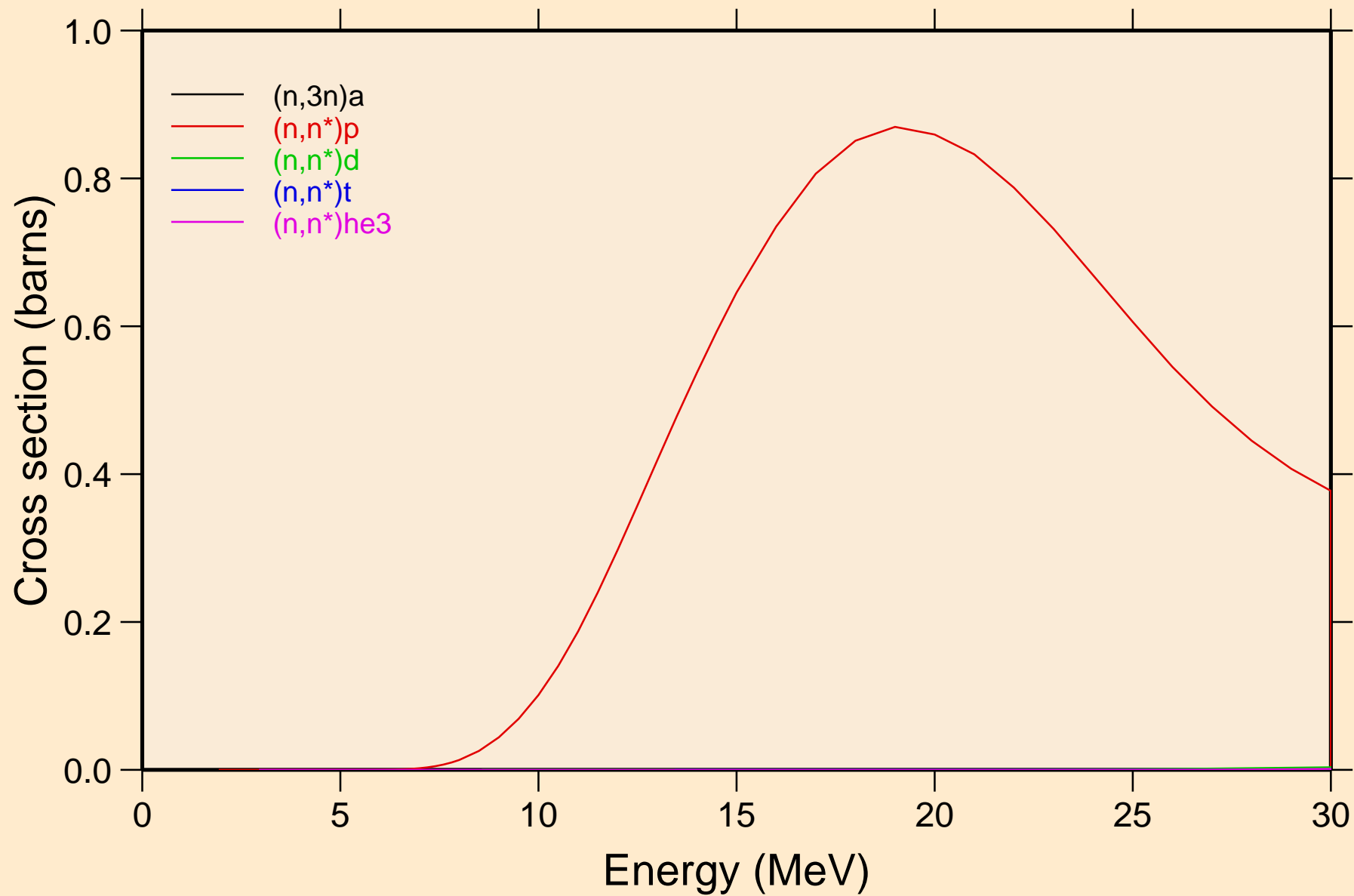
HG179 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Inelastic levels



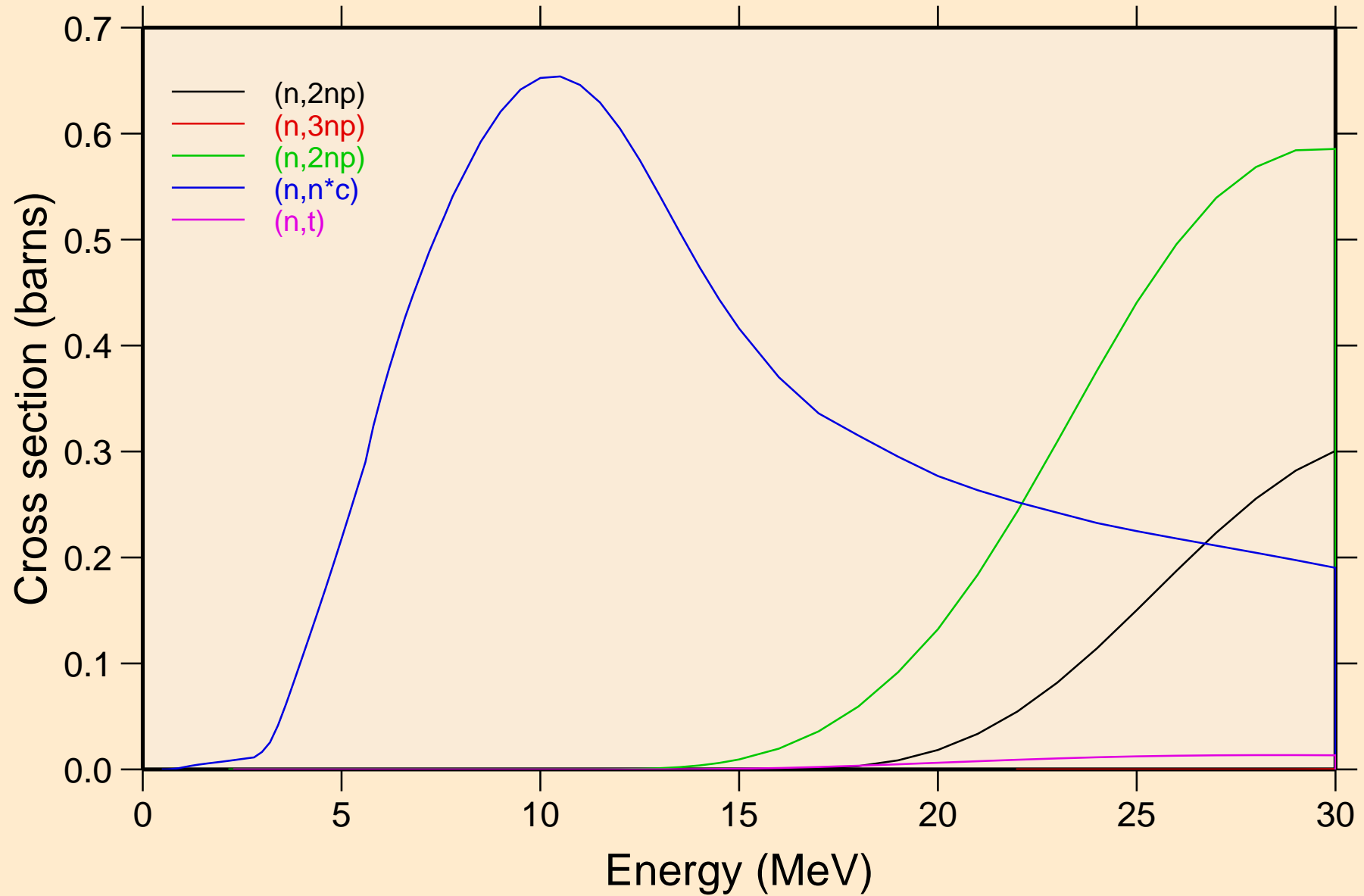
HG179 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Threshold reactions



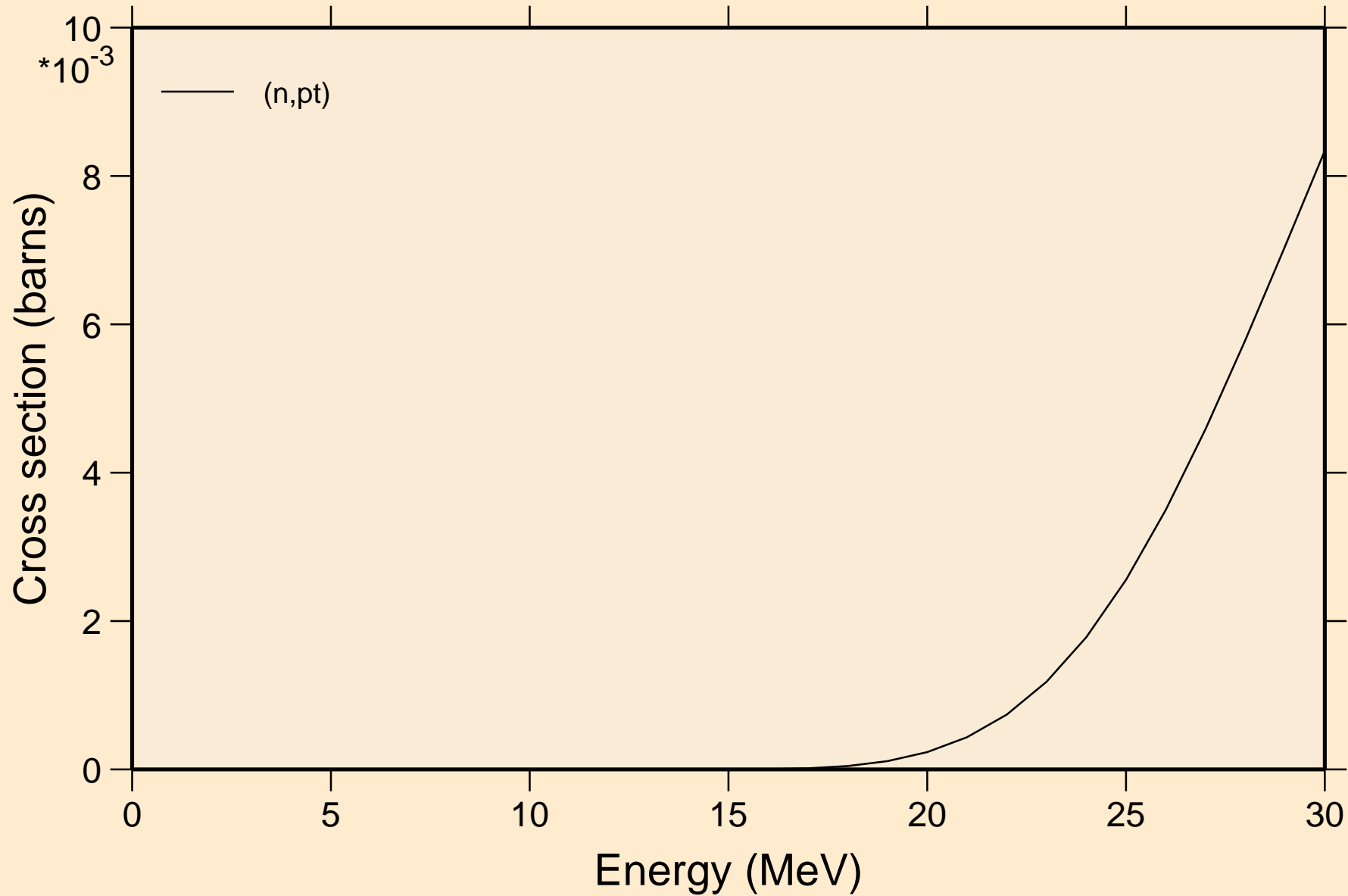
HG179 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Threshold reactions



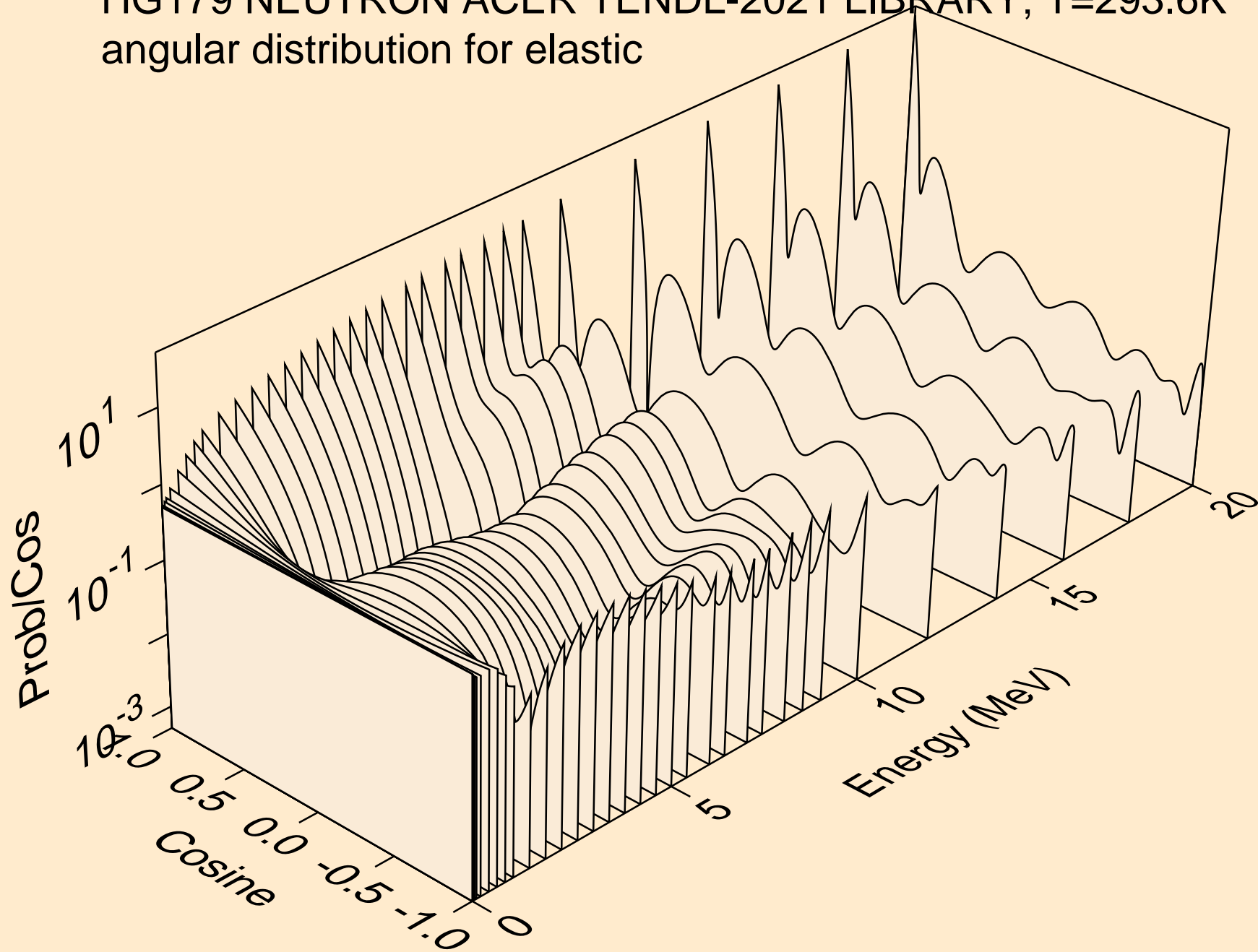
HG179 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Threshold reactions



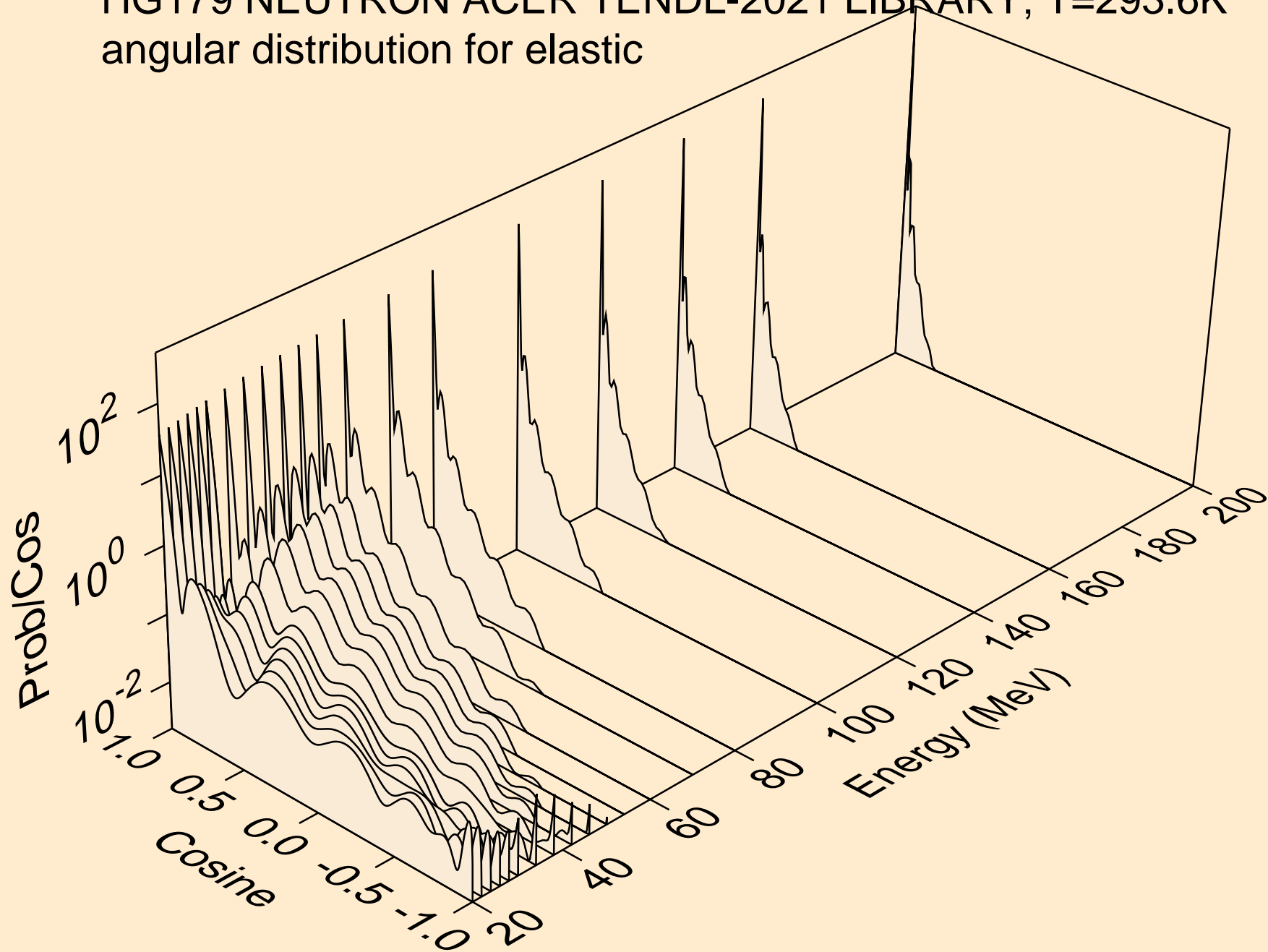
HG179 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Threshold reactions



HG179 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for elastic

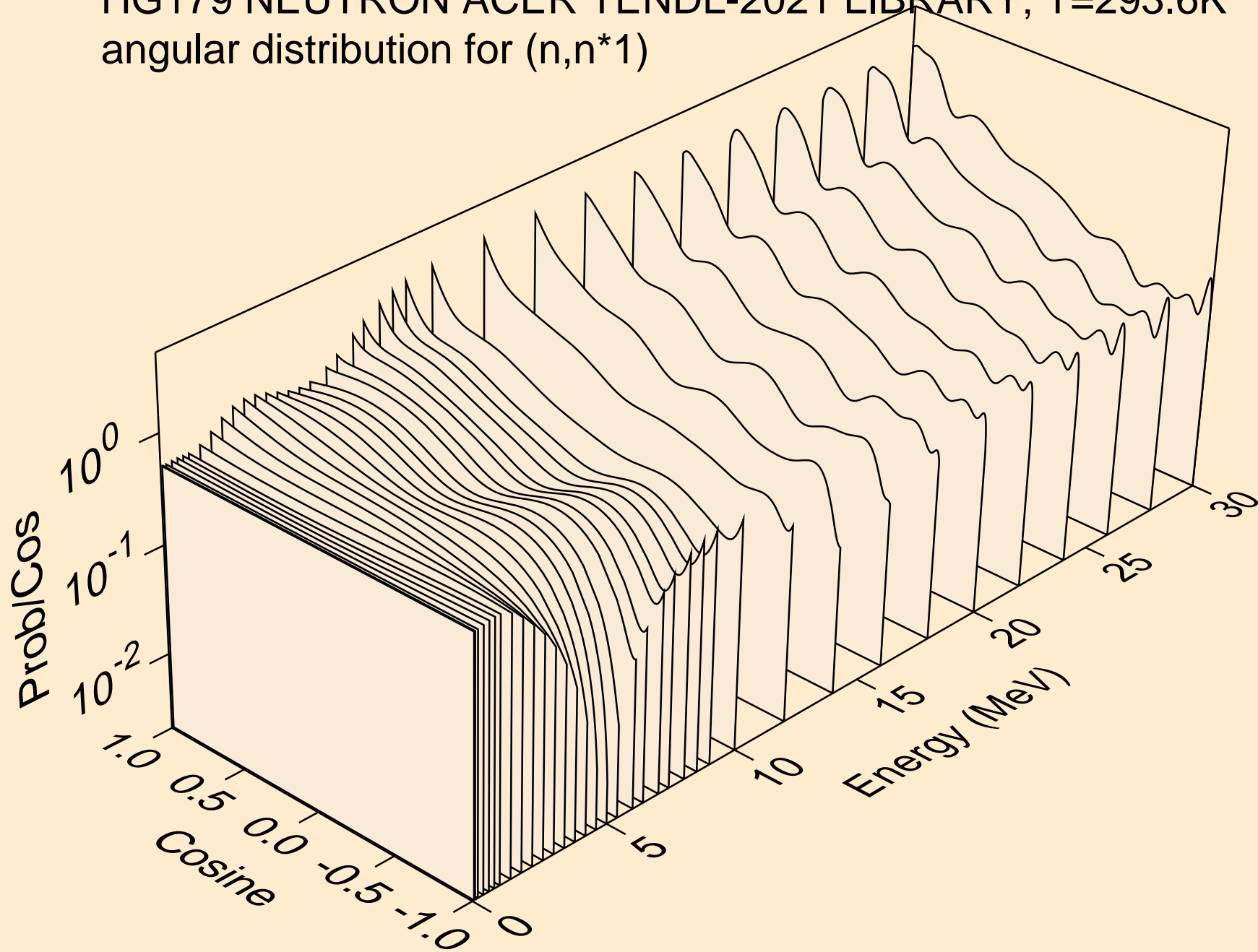


HG179 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for elastic

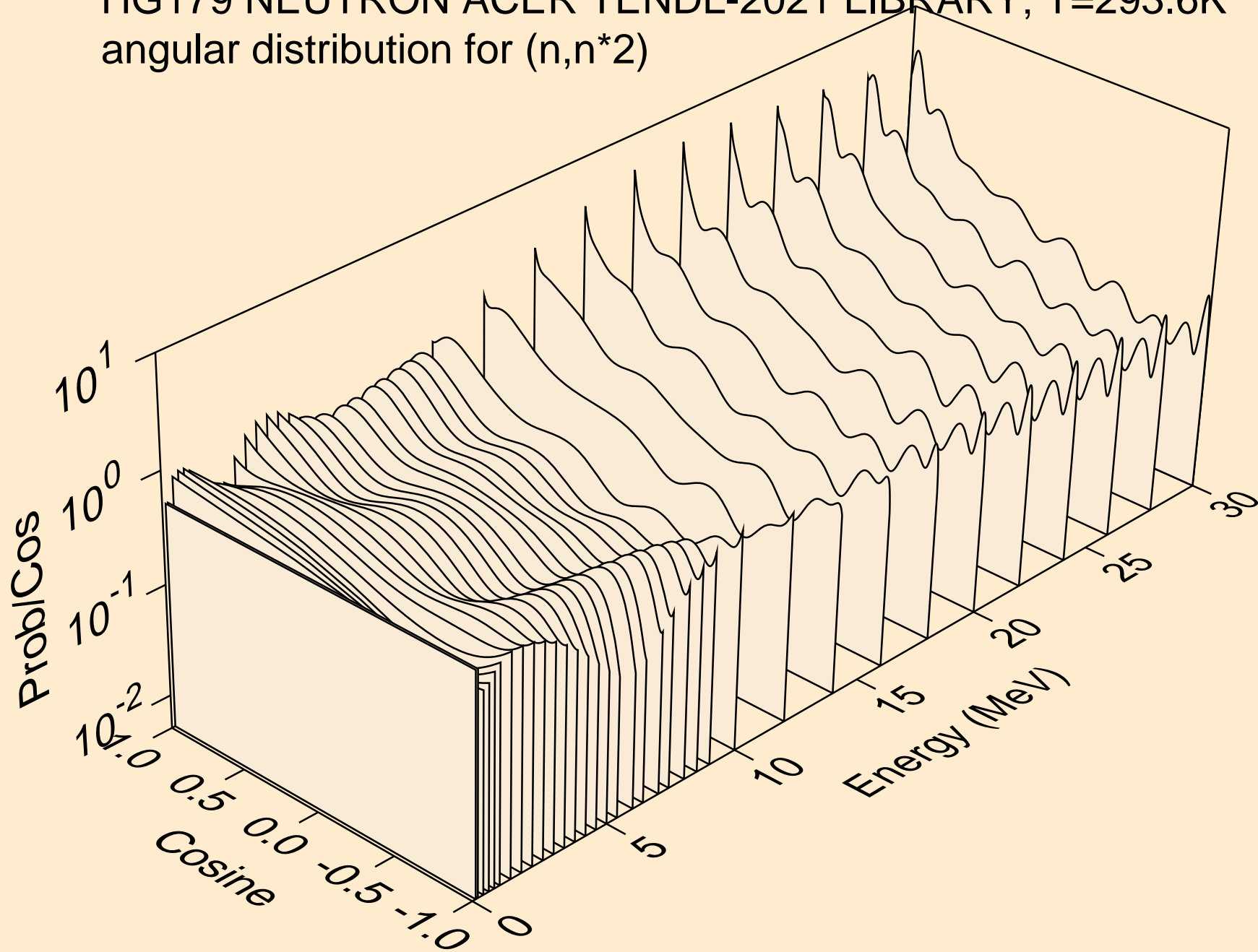




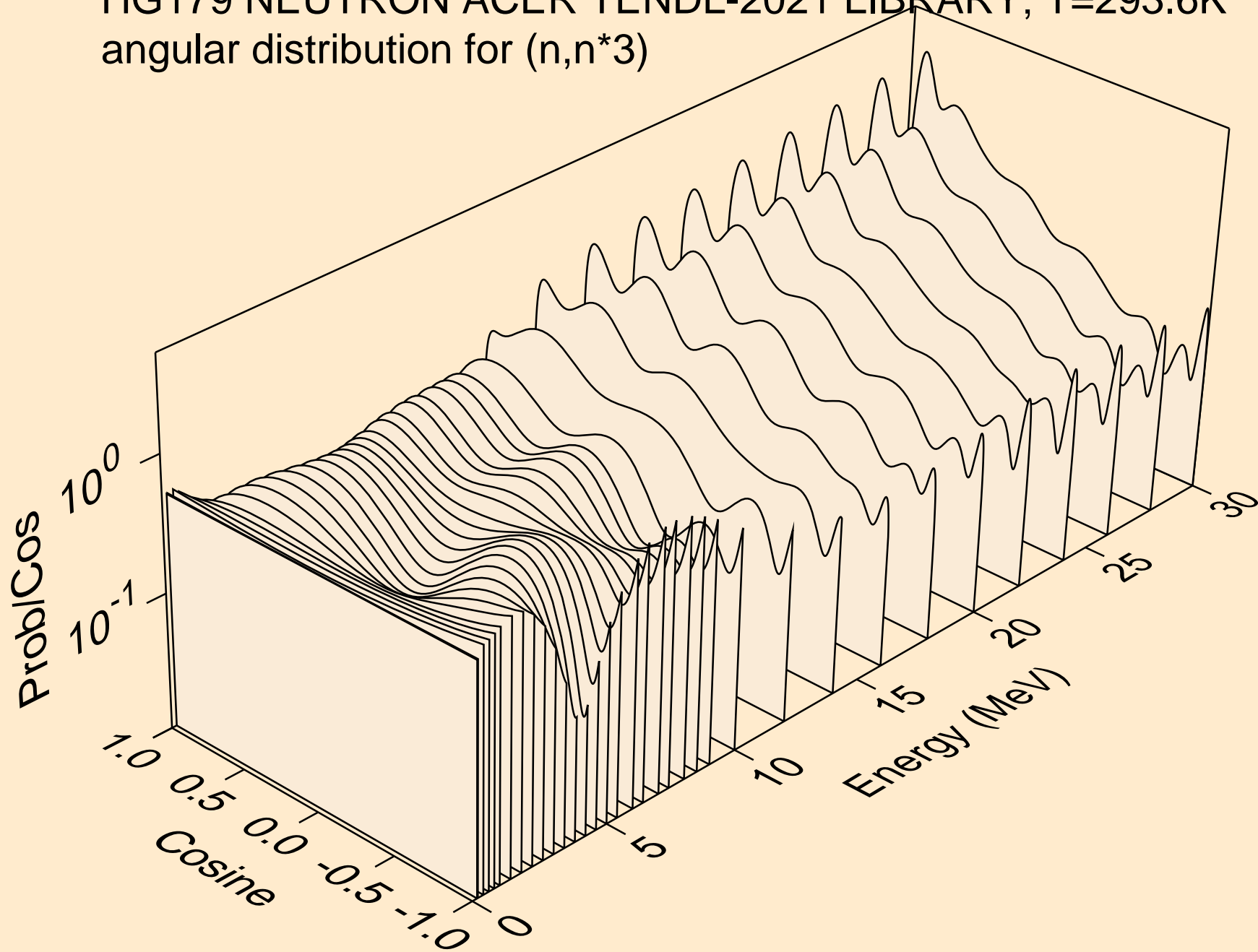
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angular distribution for (n,n\*1)



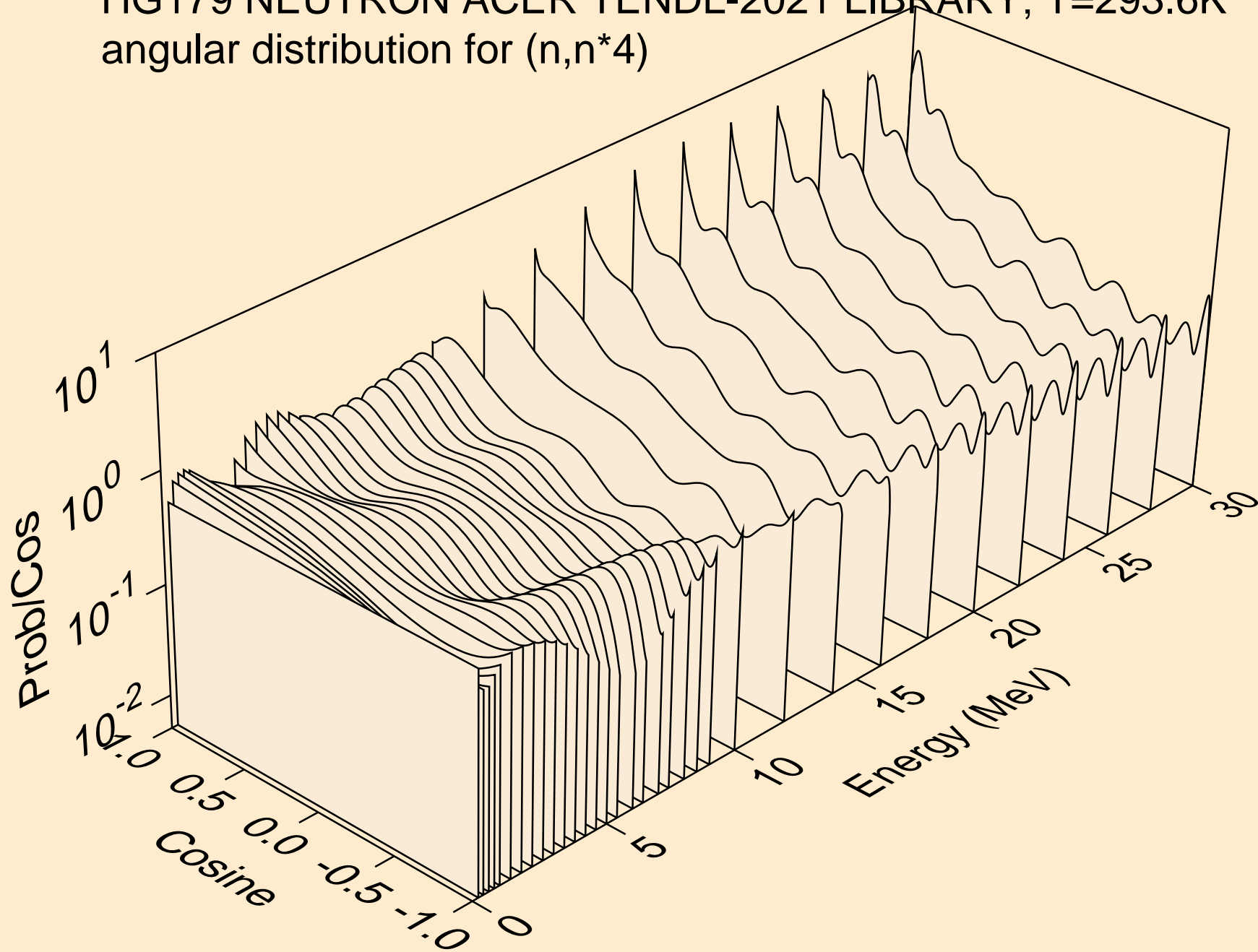
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angular distribution for (n,n\*2)



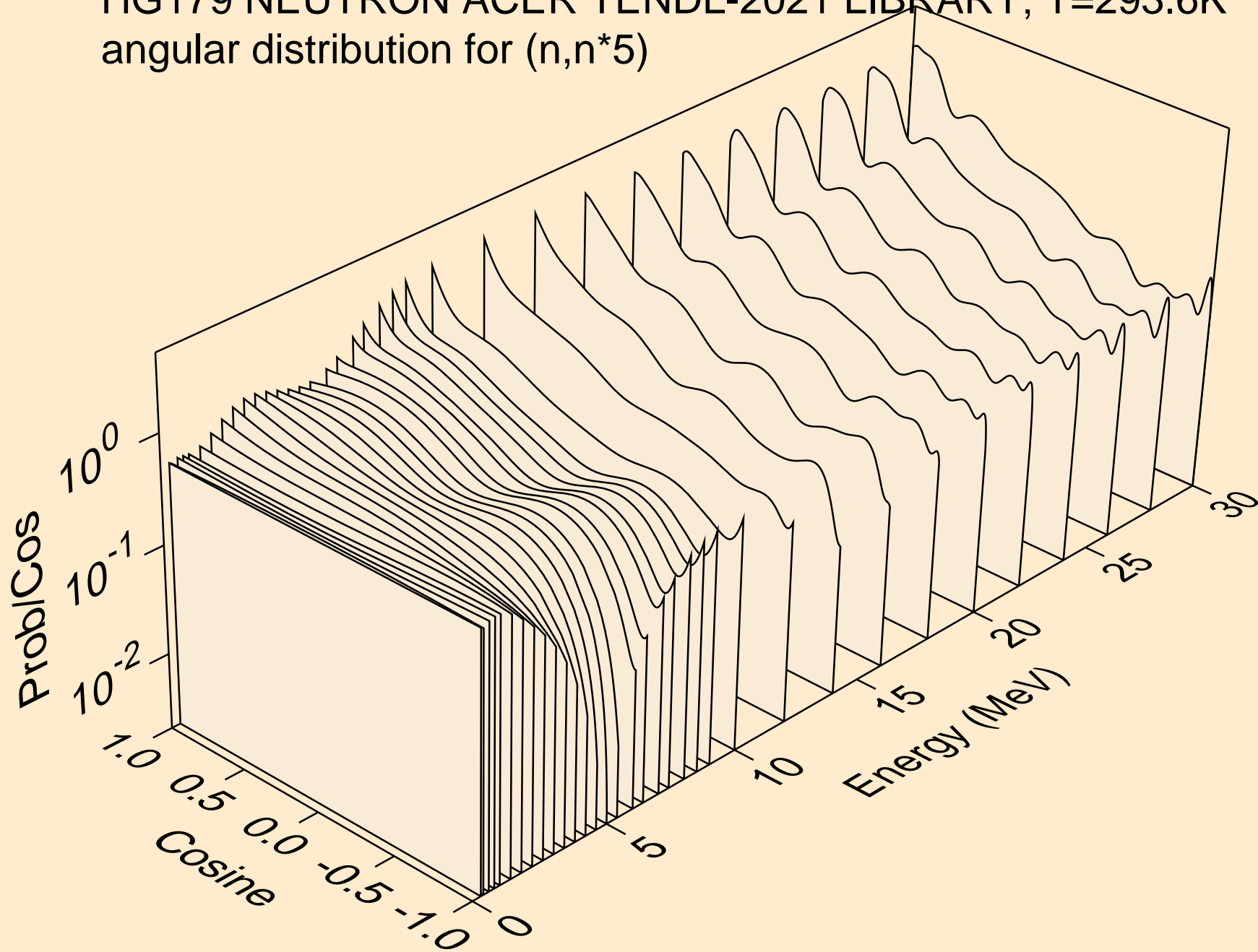
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angular distribution for (n,n\*3)



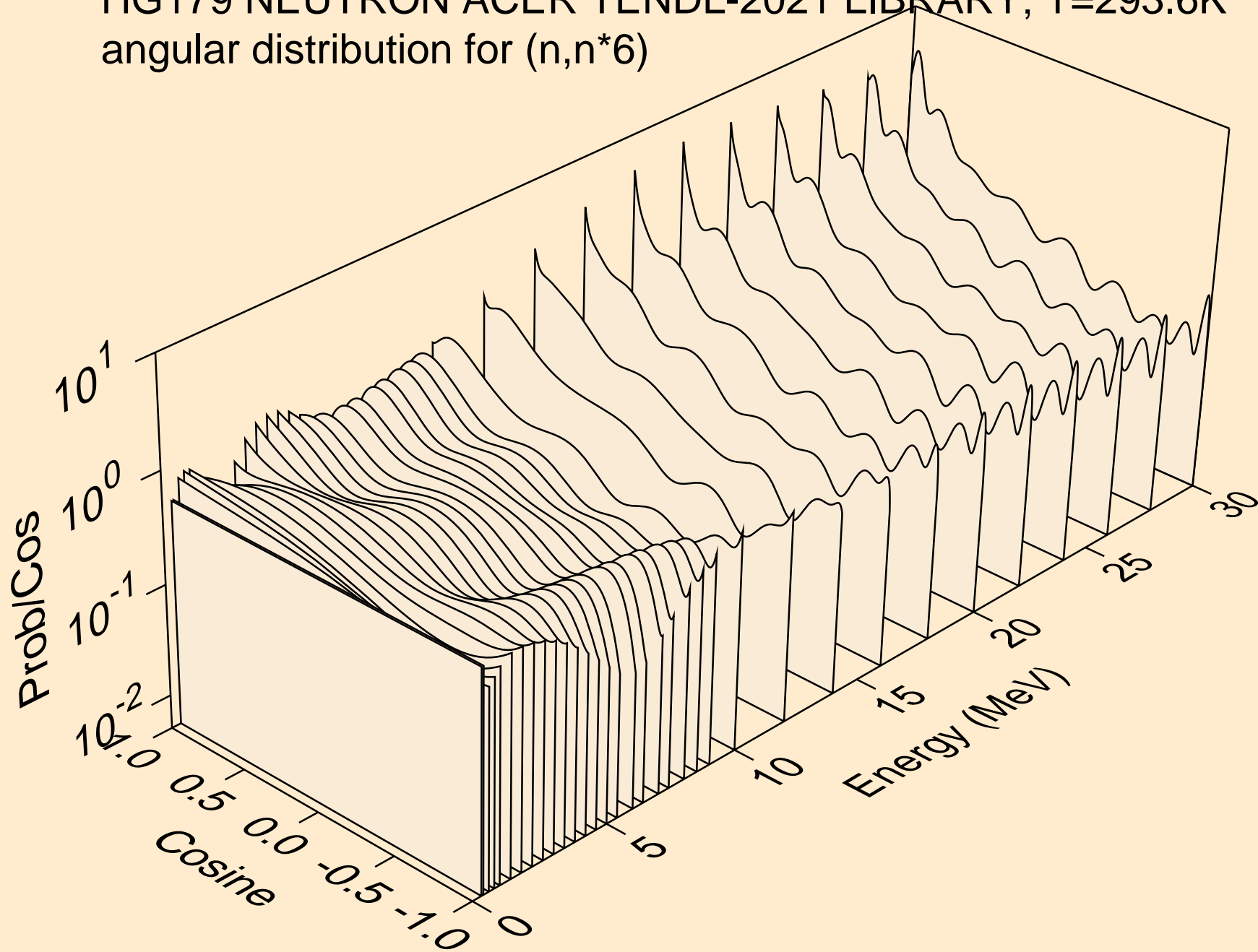
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angular distribution for (n,n\*4)



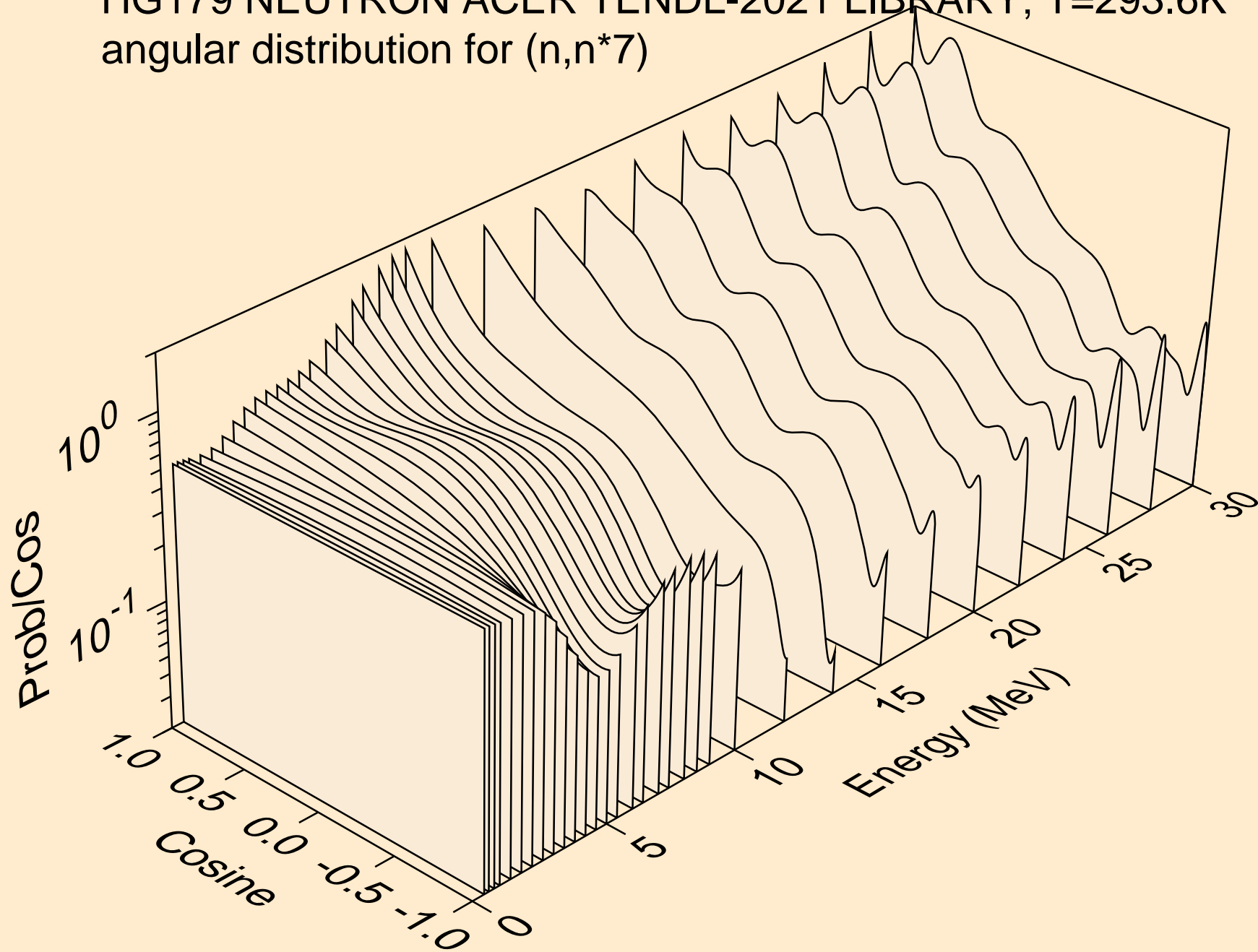
HG179 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for (n,n\*5)



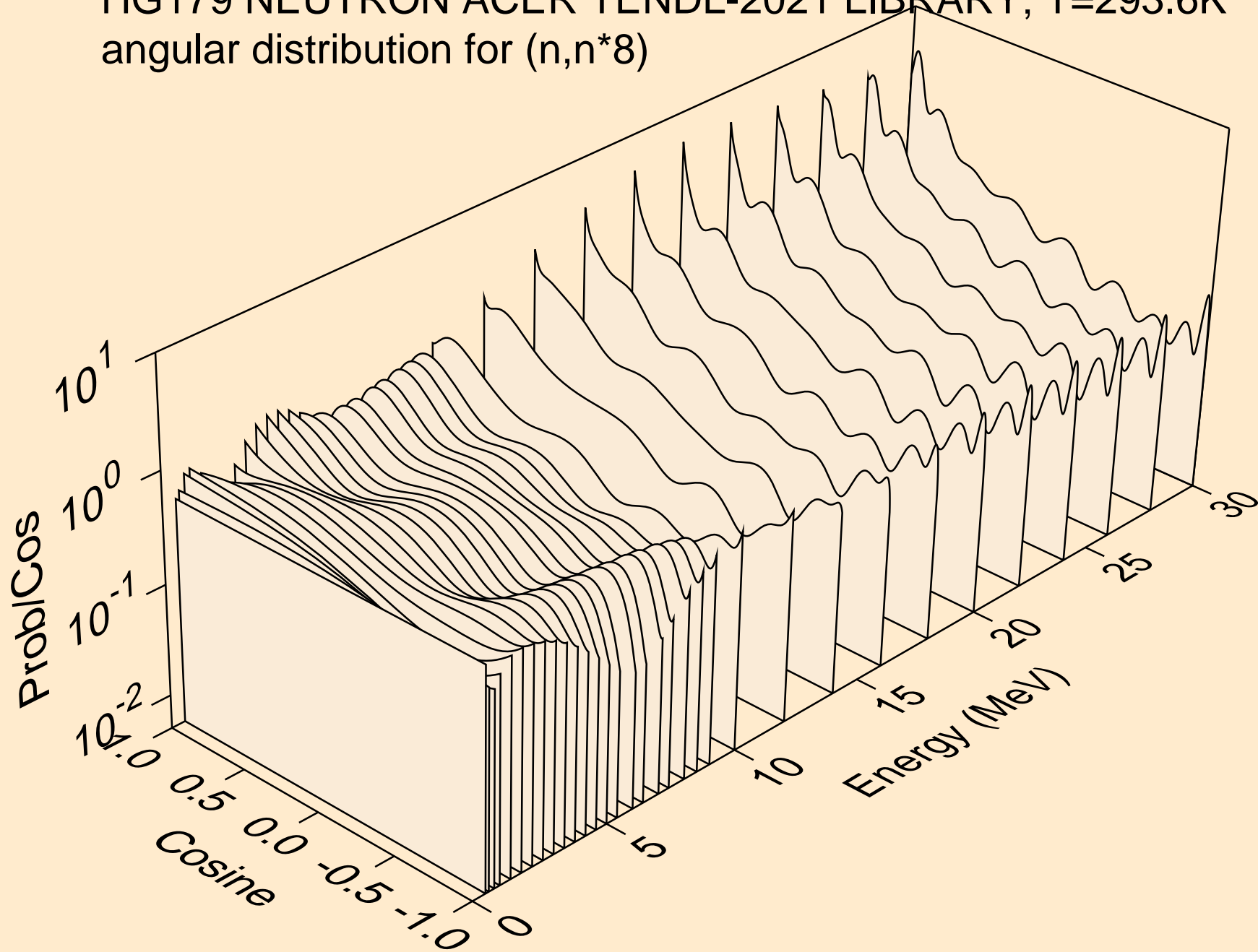
HG179 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for (n,n\*6)



HG179 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for (n,n\*7)

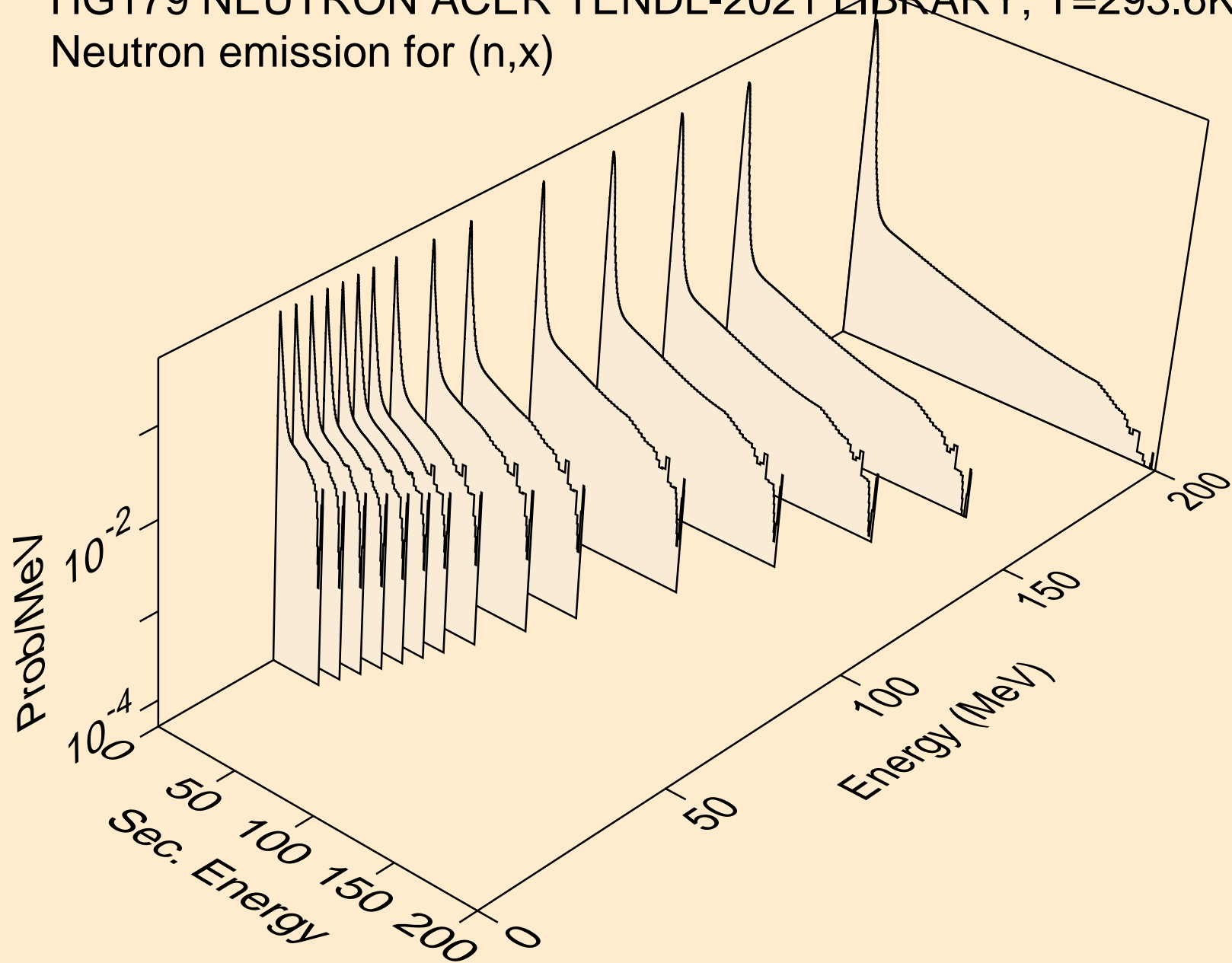


HG179 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for (n,n\*8)

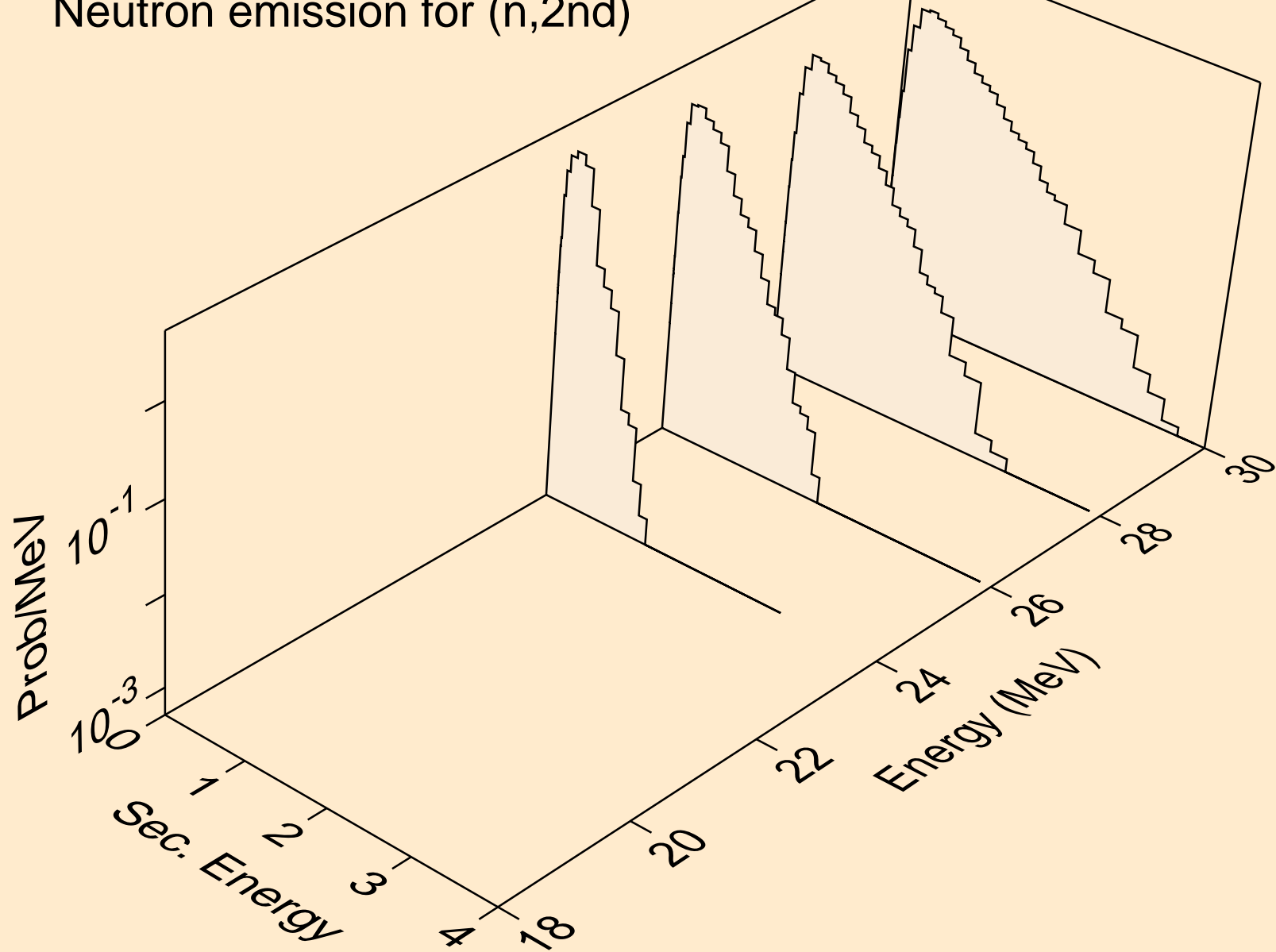




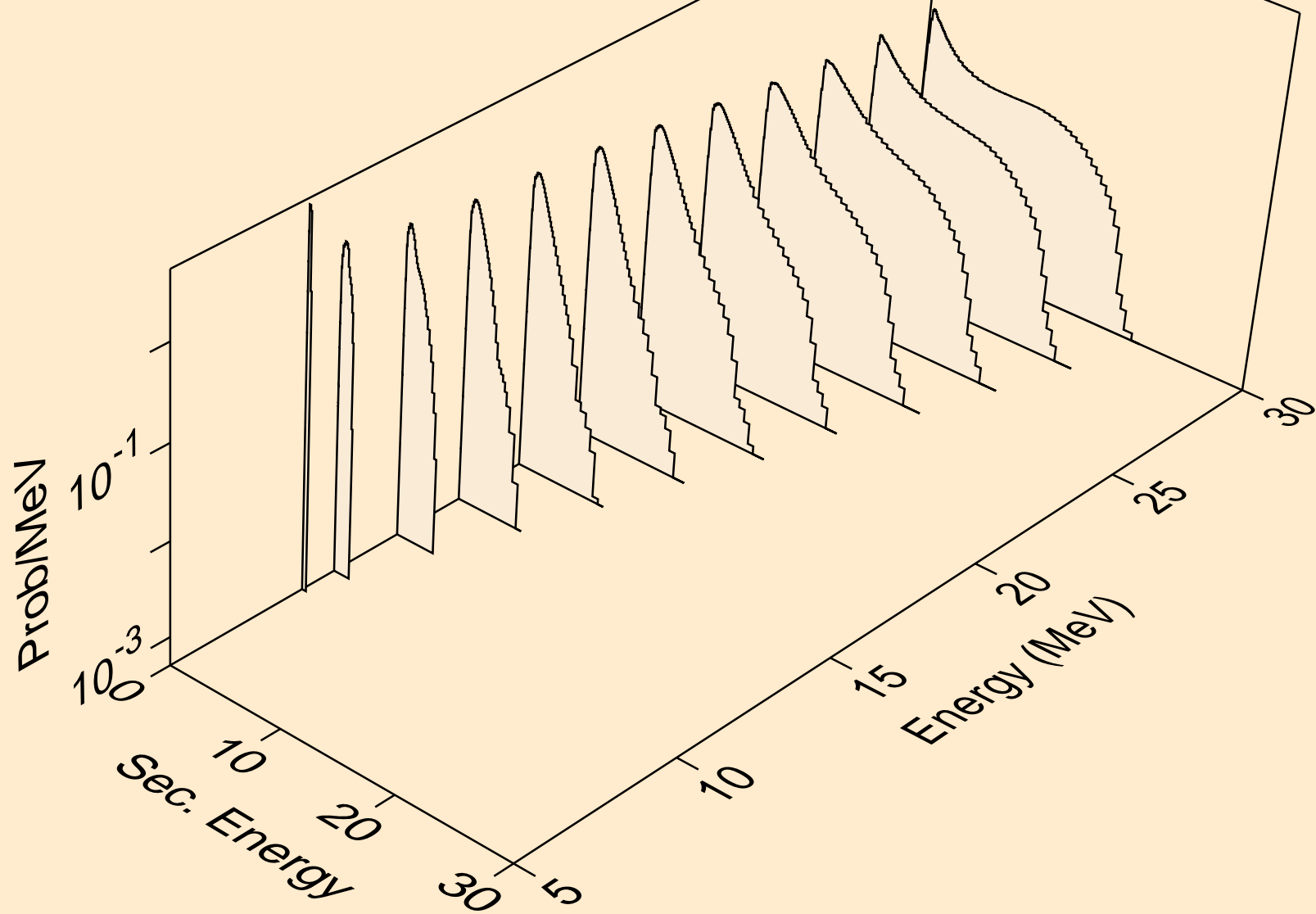
HG179 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,x)



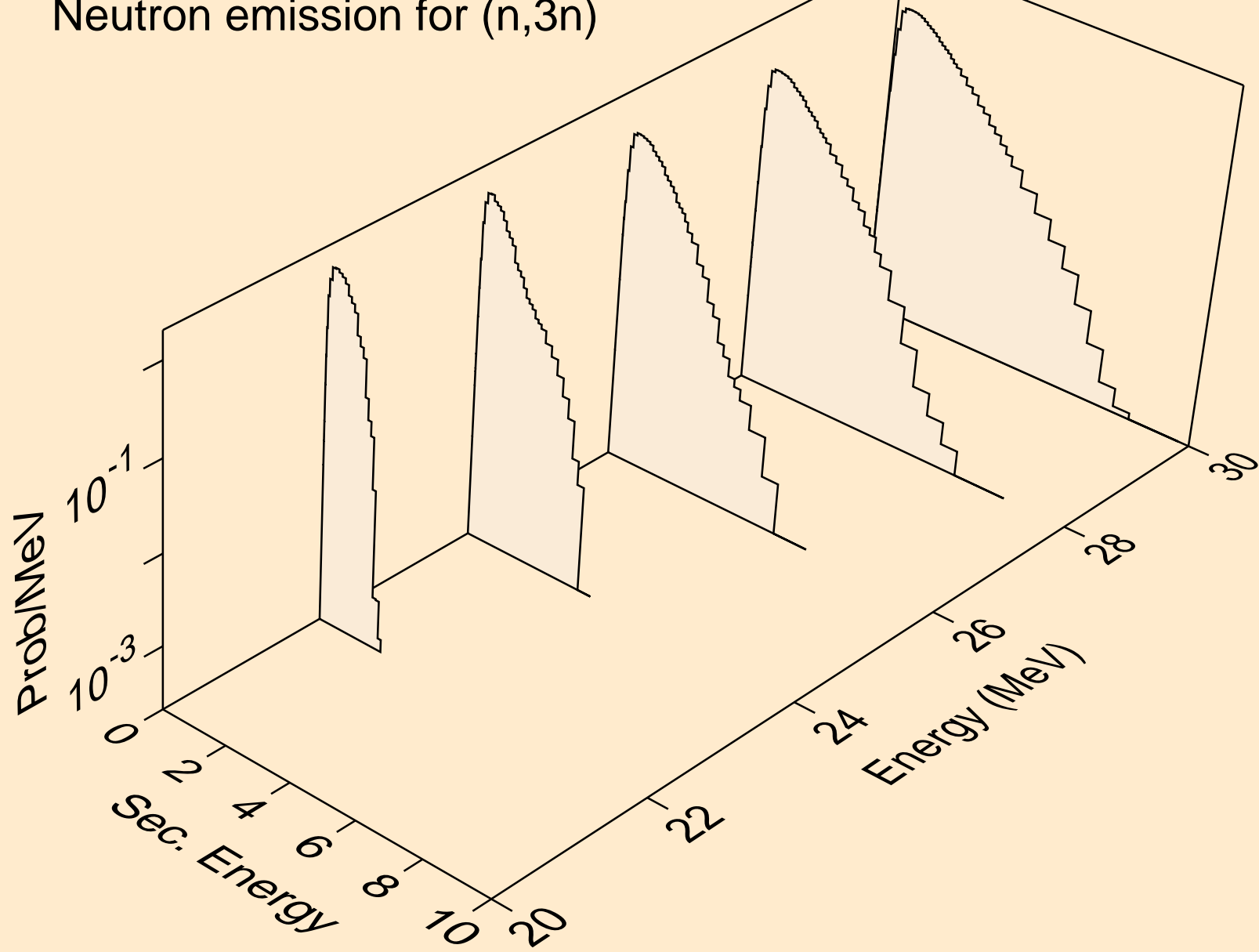
HG179 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,2nd)



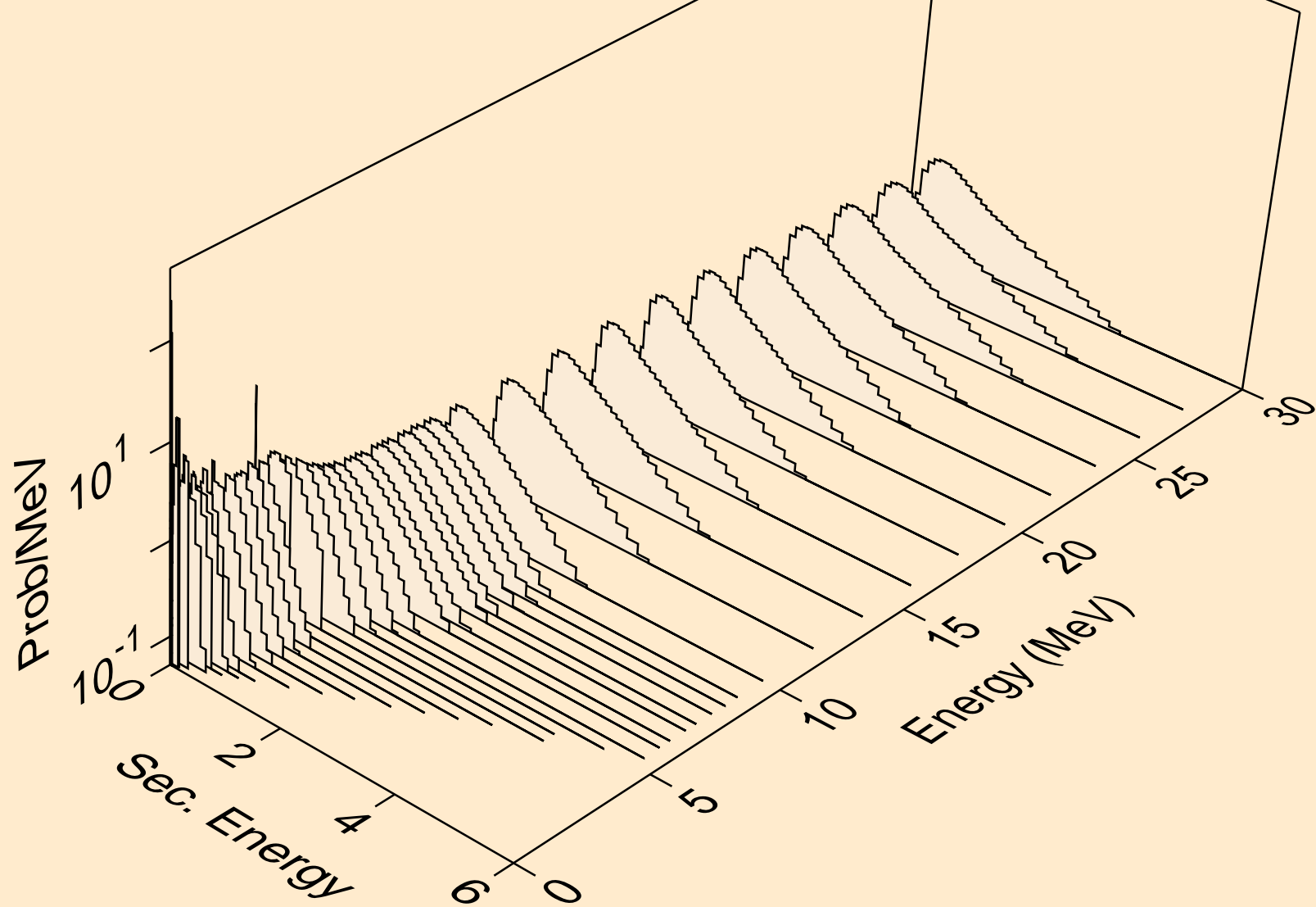
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Neutron emission for (n,2n)



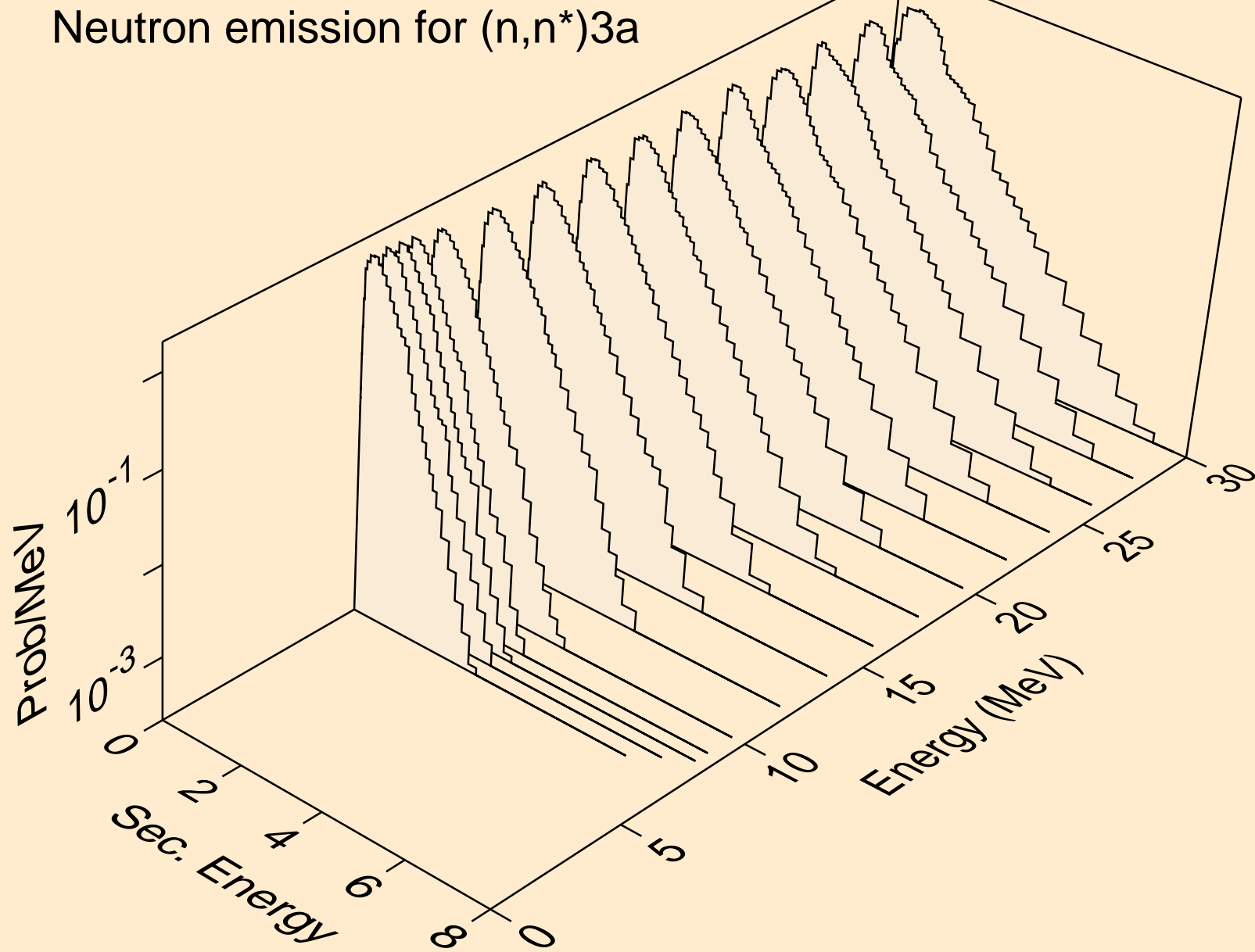
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Neutron emission for (n,3n)



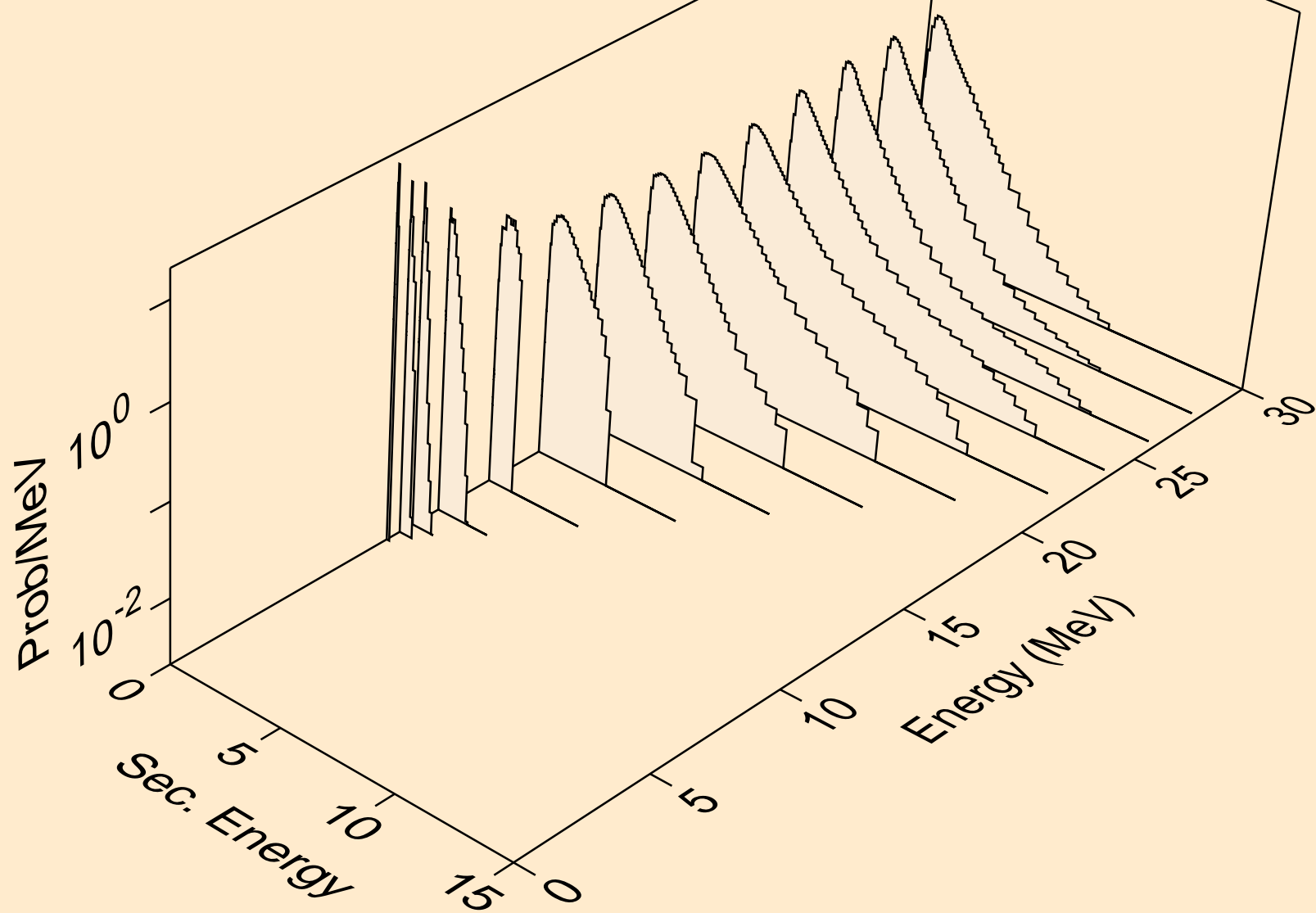
HG179 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,n\*)a



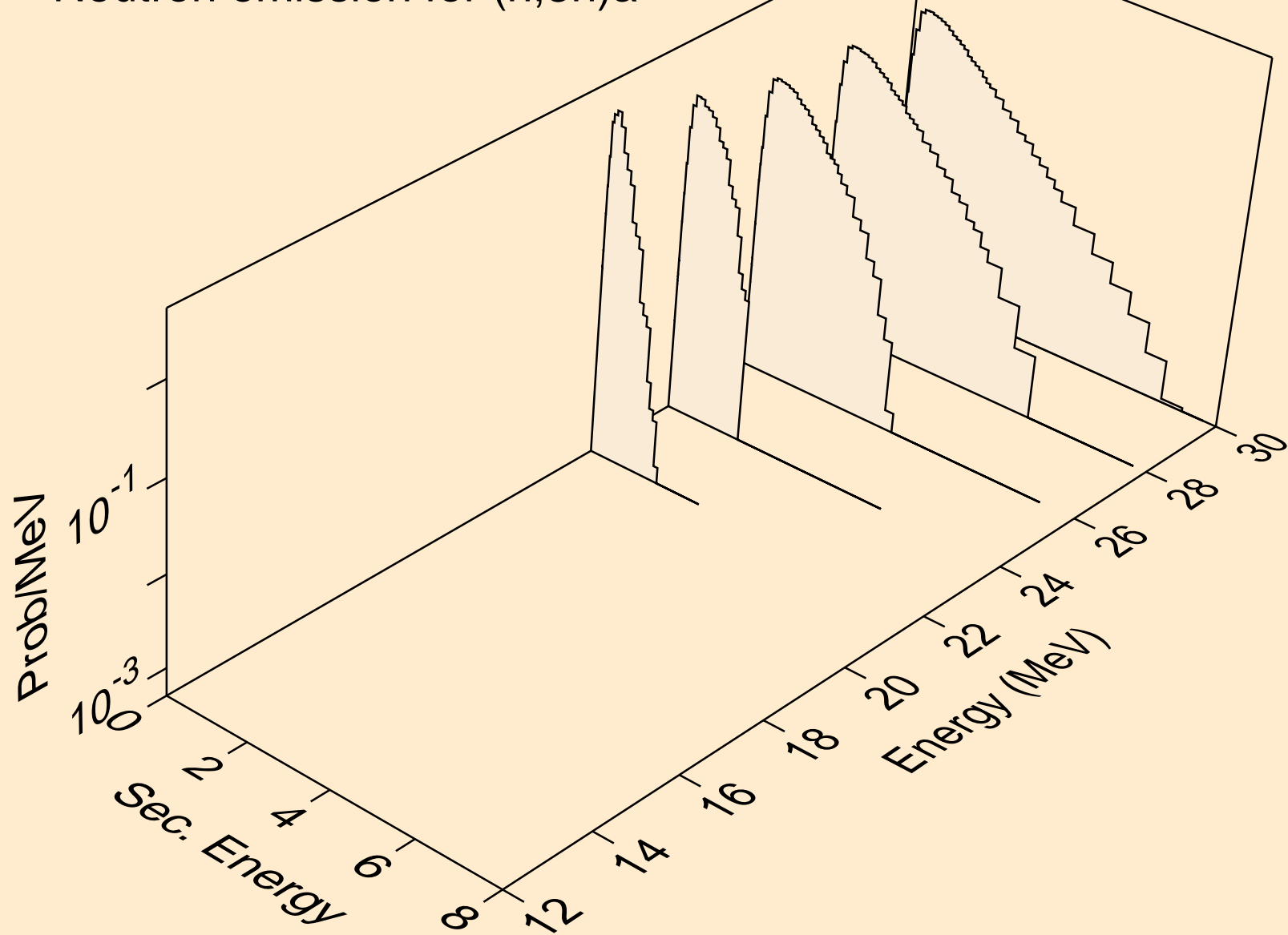
HG179 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,n\*)3a



HG179 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,2n)a

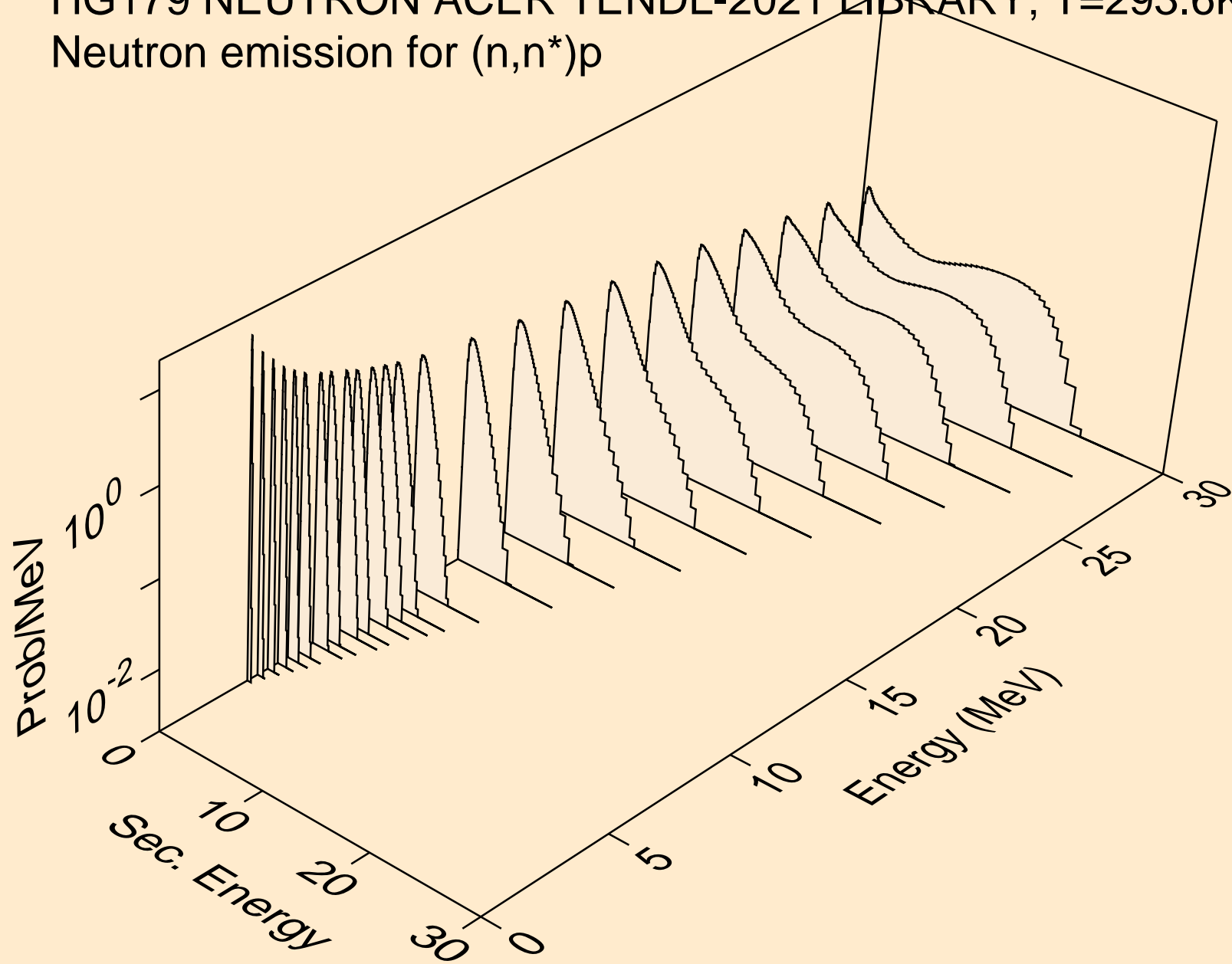


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Neutron emission for (n,3n)a

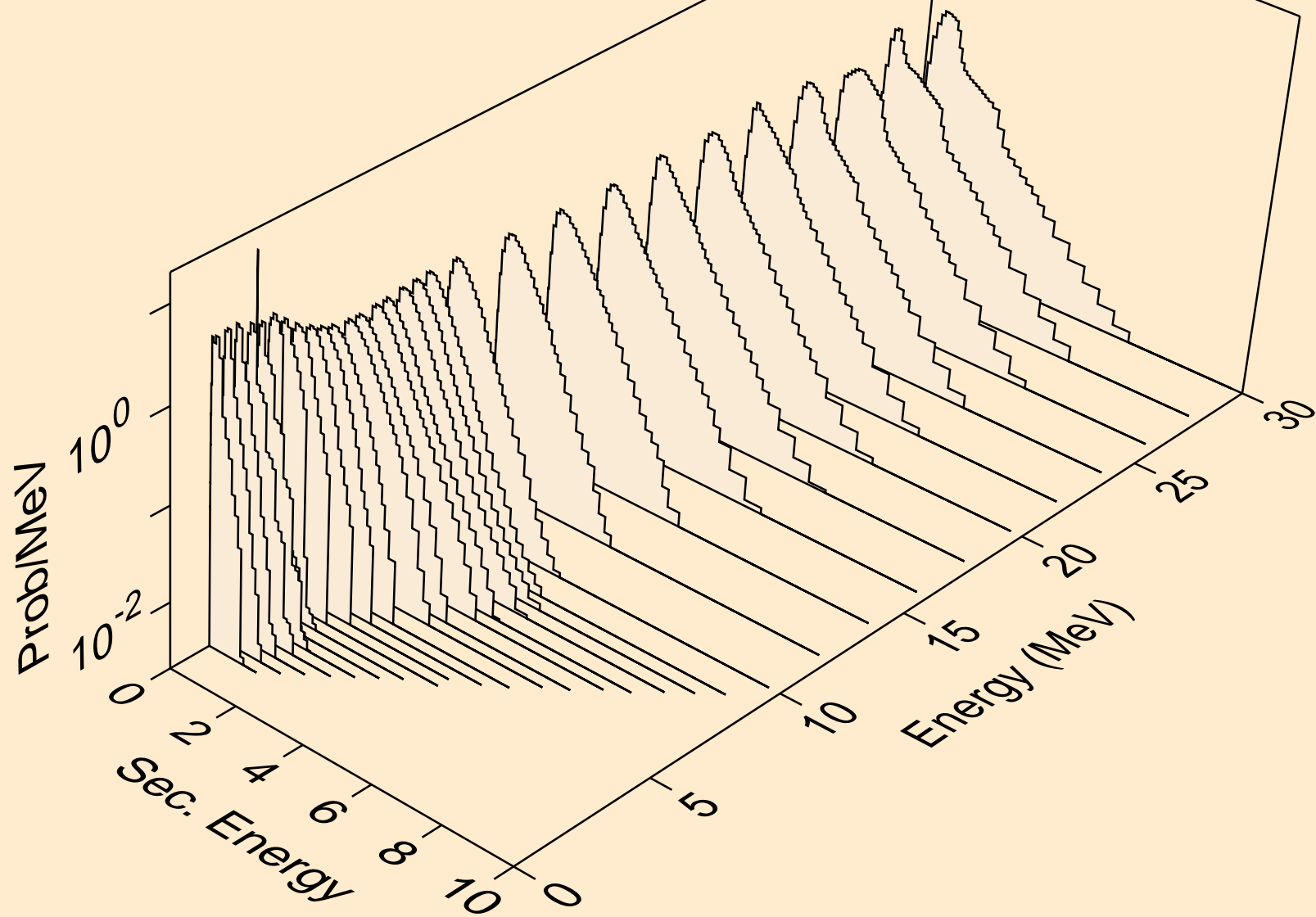




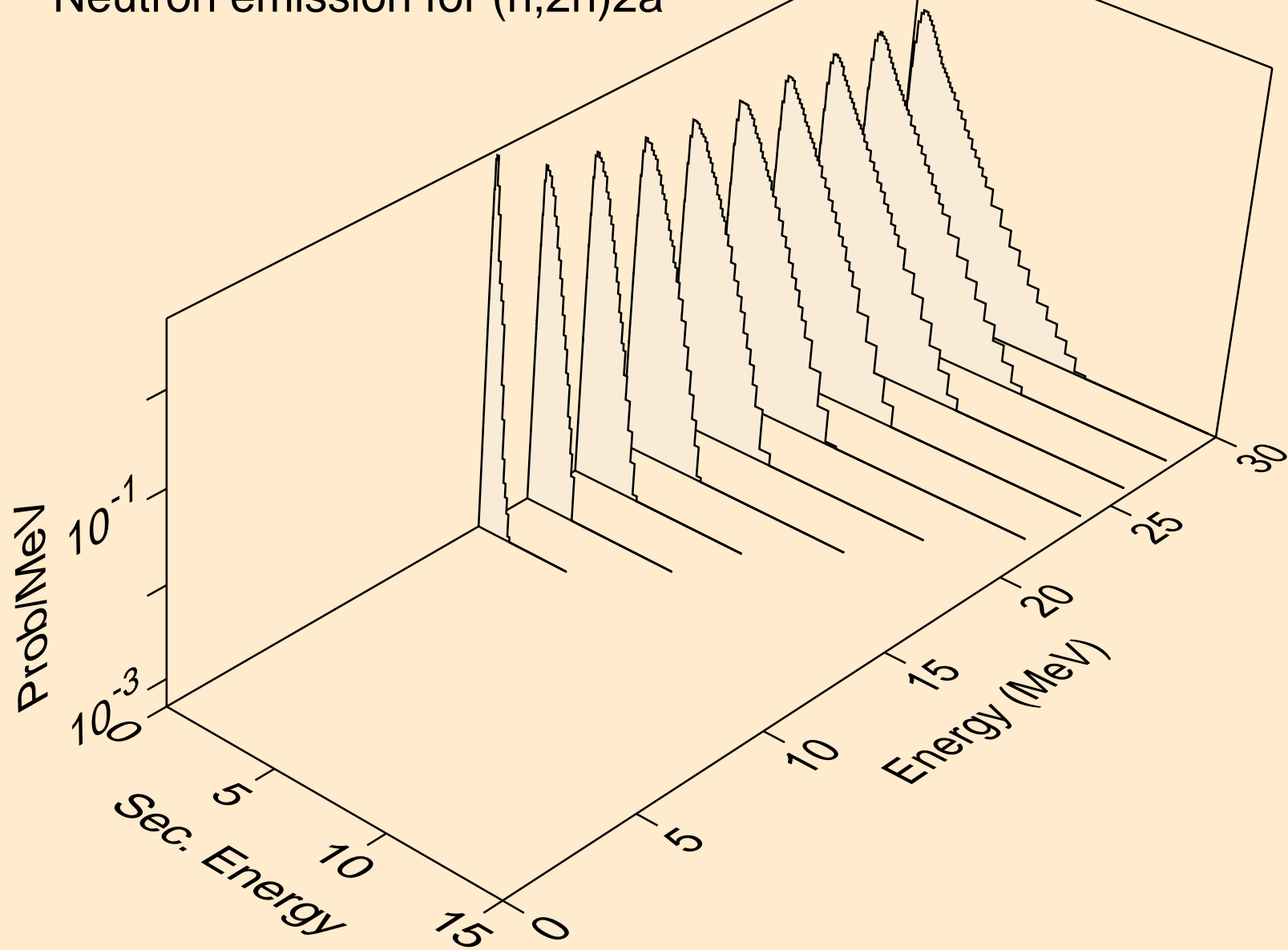
HG179 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,n\*)p



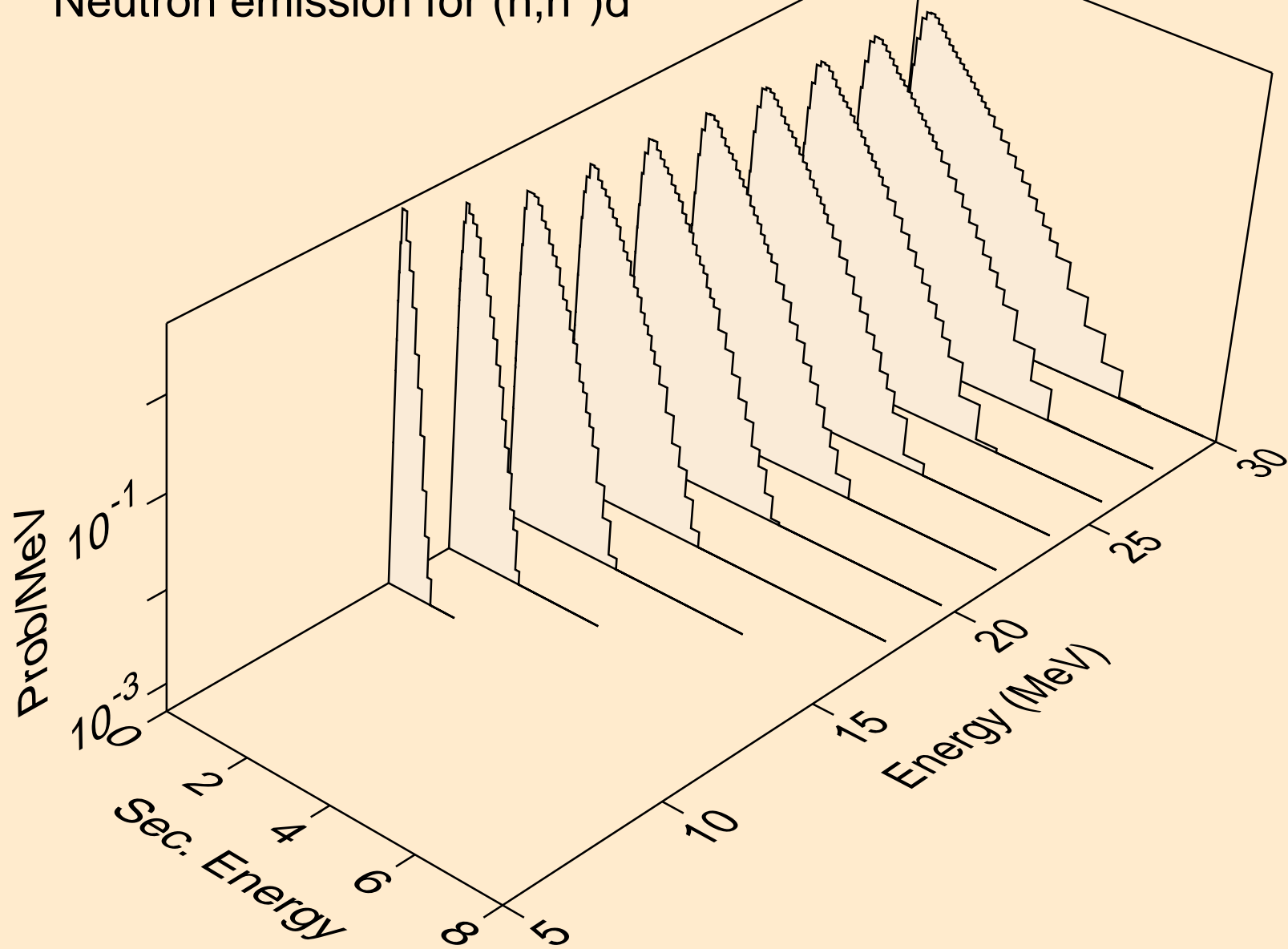
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Neutron emission for (n,n\*)2a



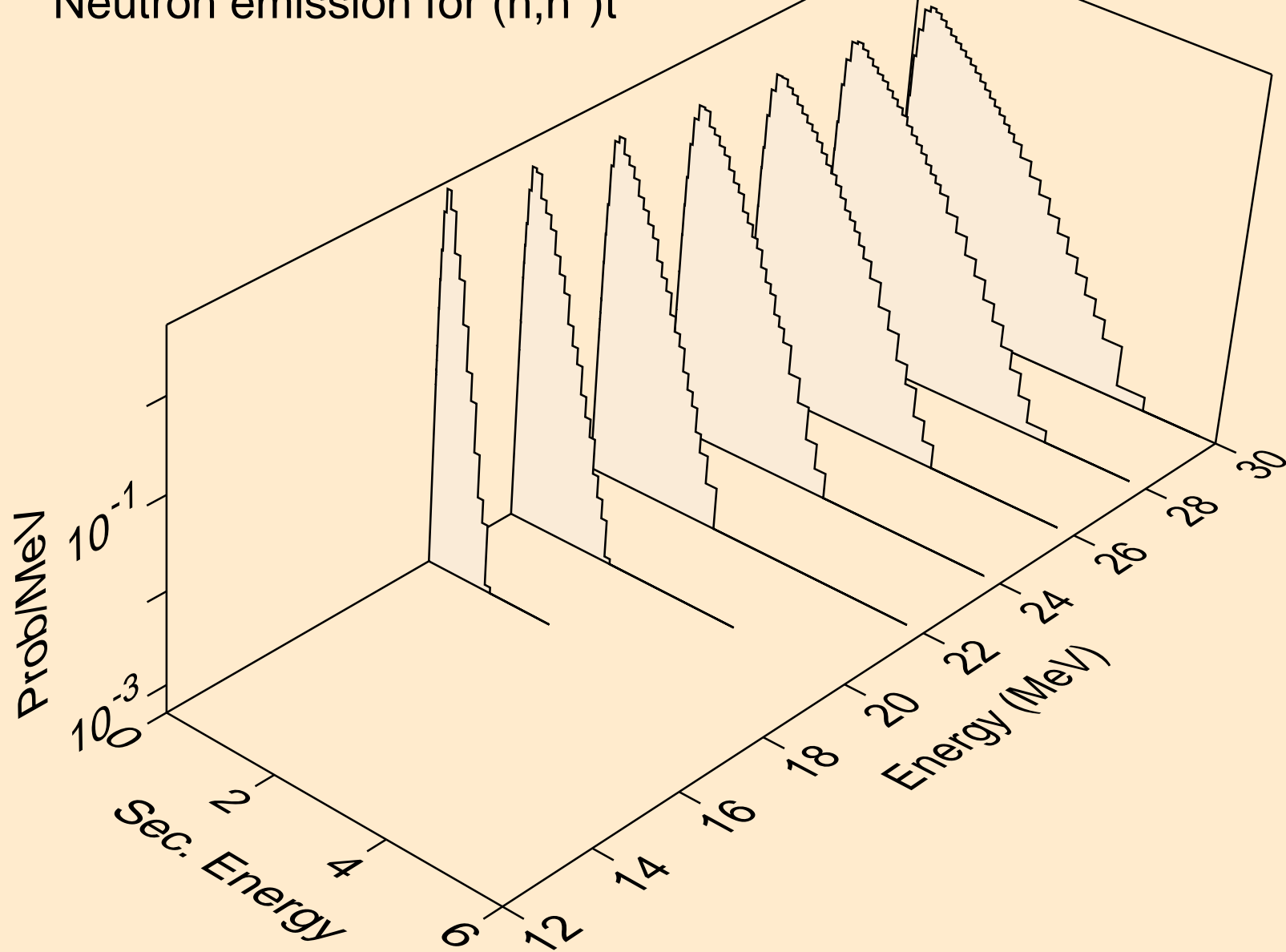
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Neutron emission for (n,2n)2a



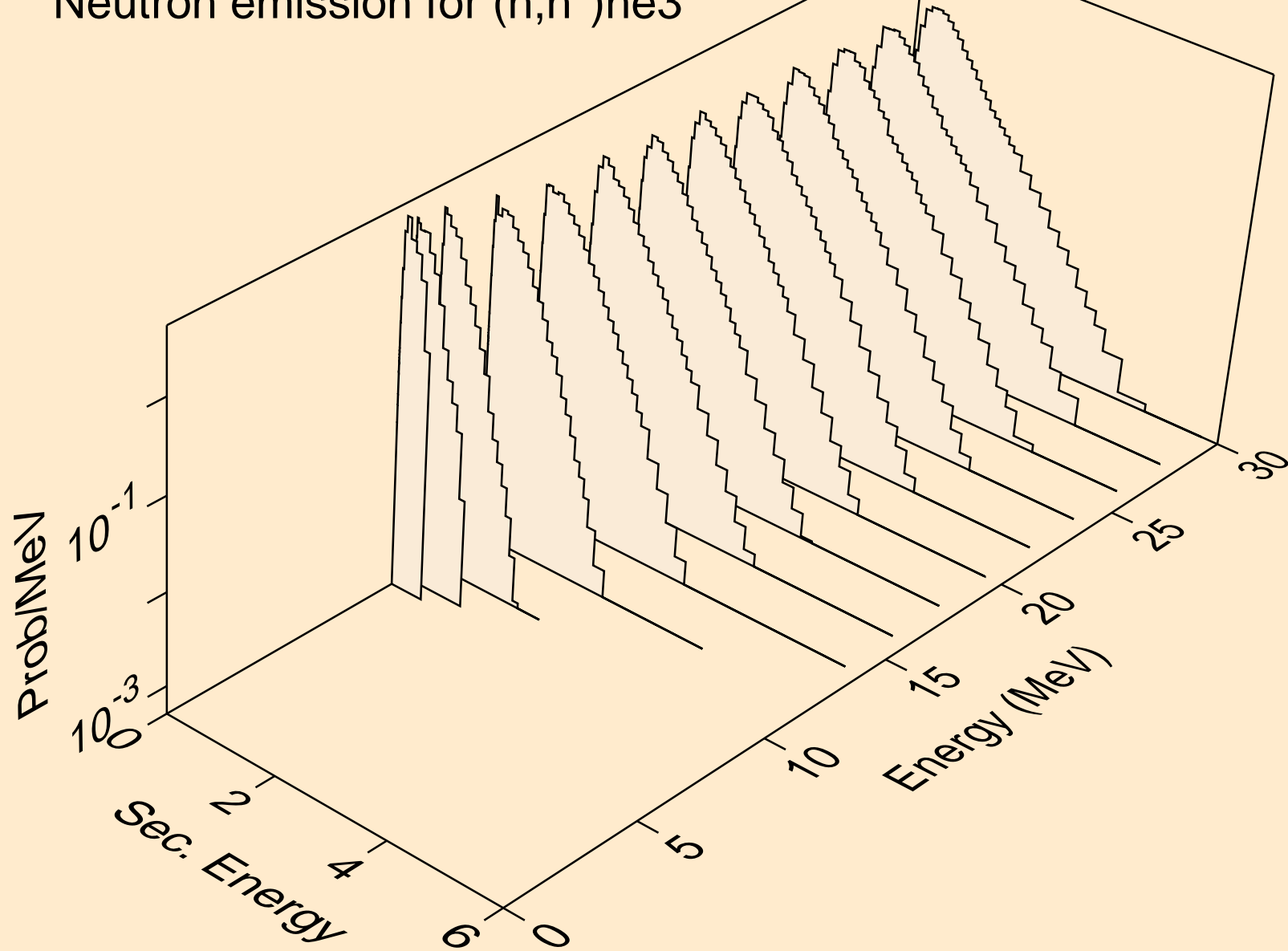
HG179 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,n\*)d



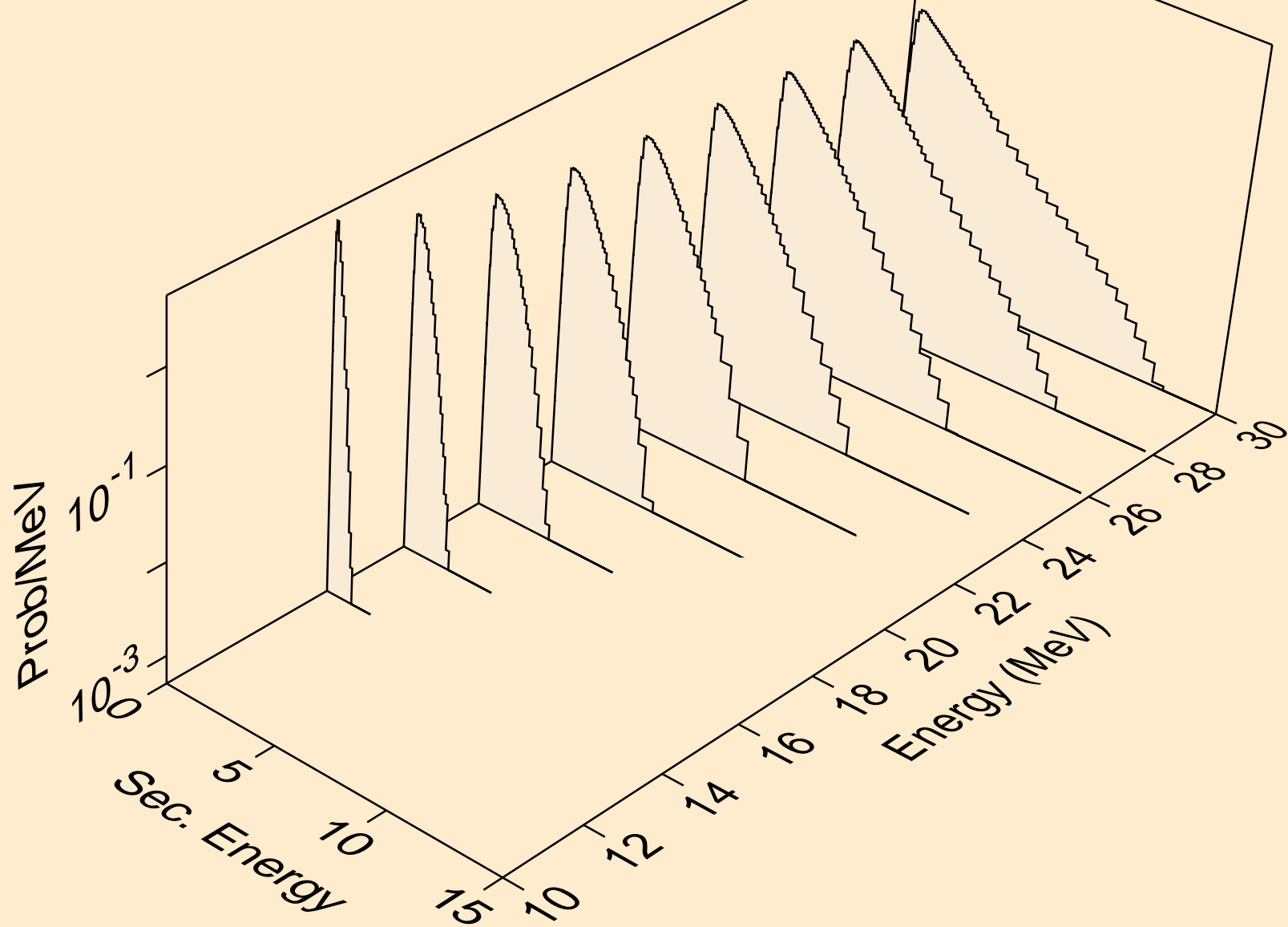
HG179 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,n\*)t



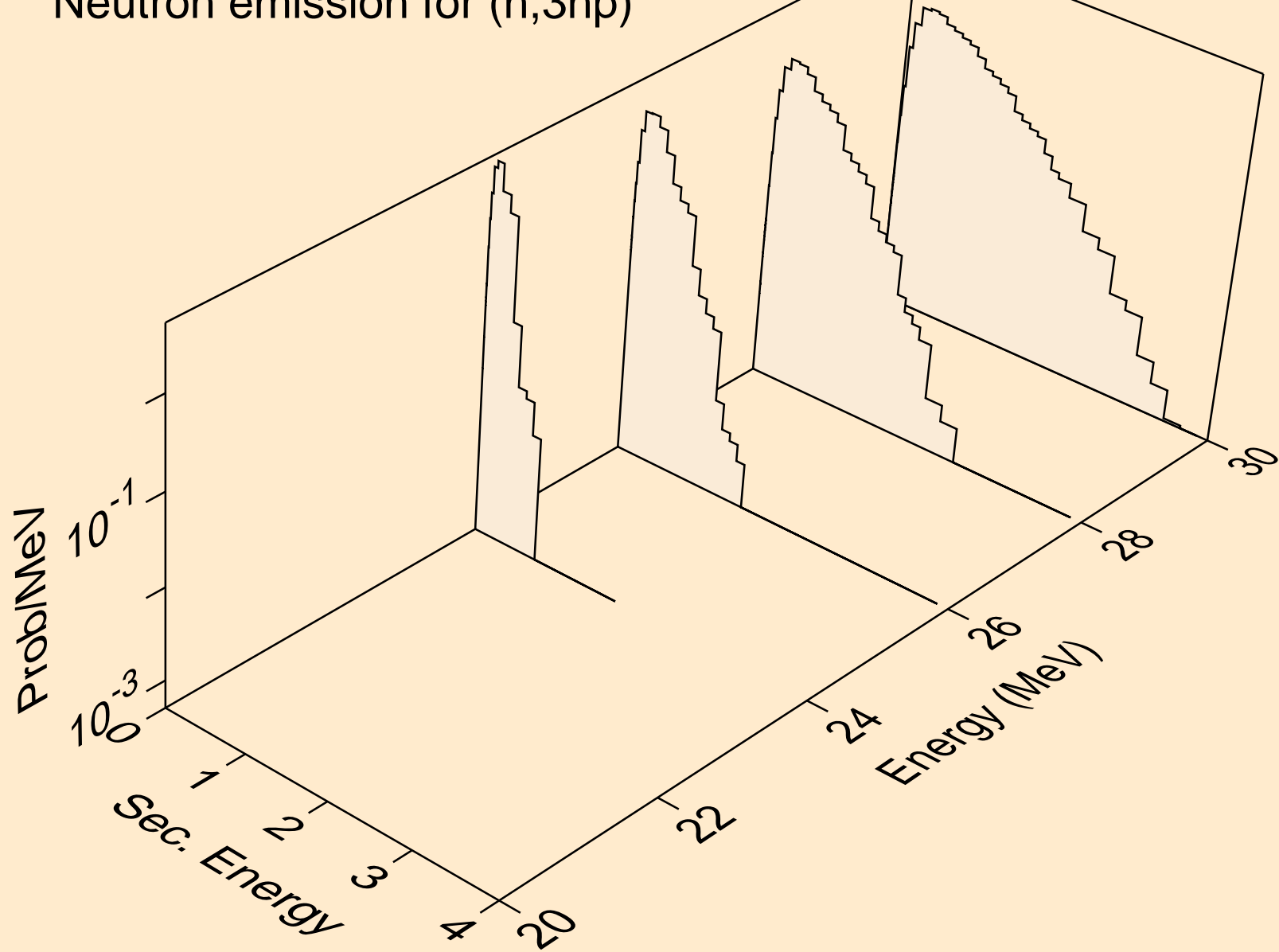
HG179 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,n\*)he3



HG179 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,2np)

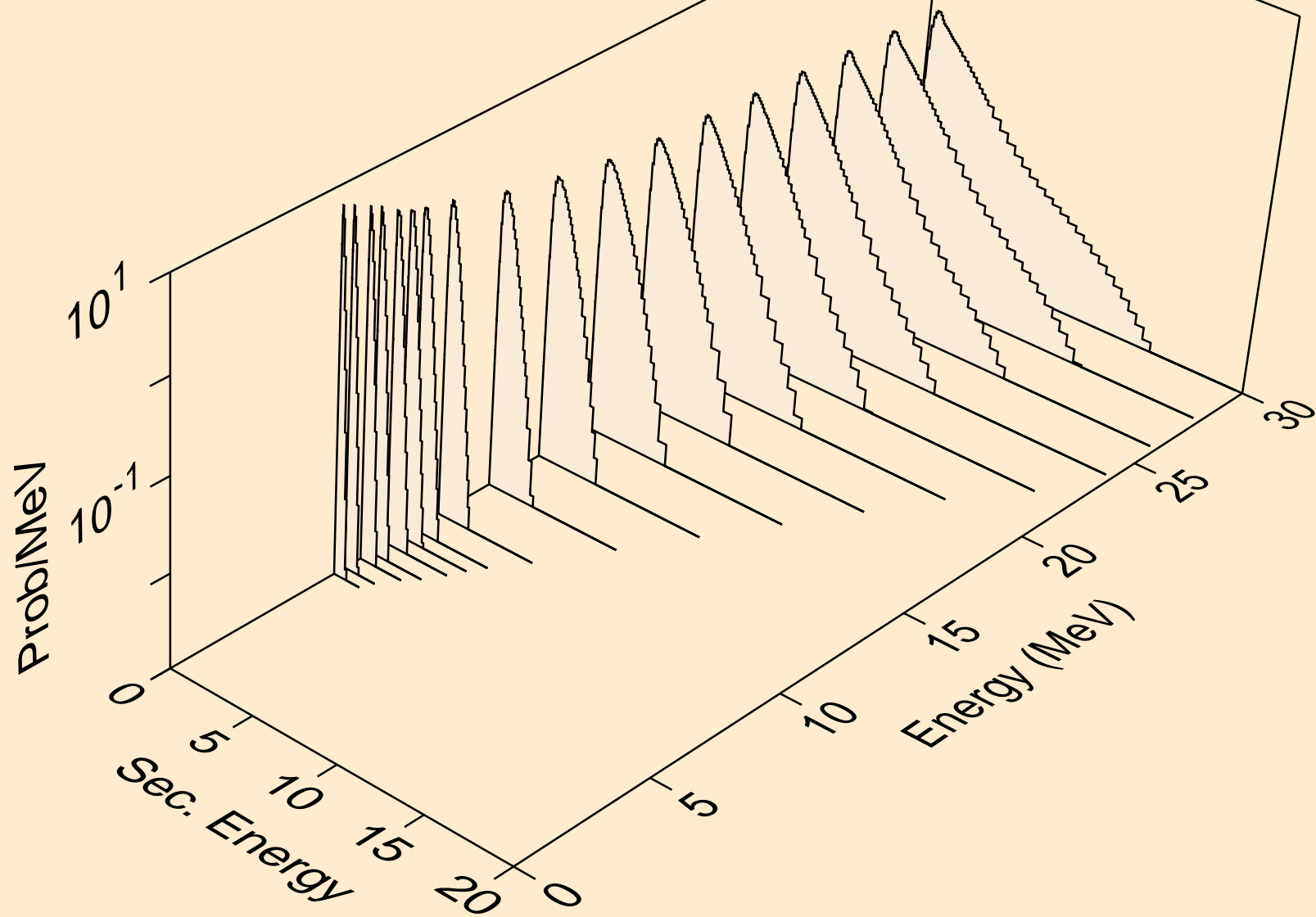


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Neutron emission for (n,3np)

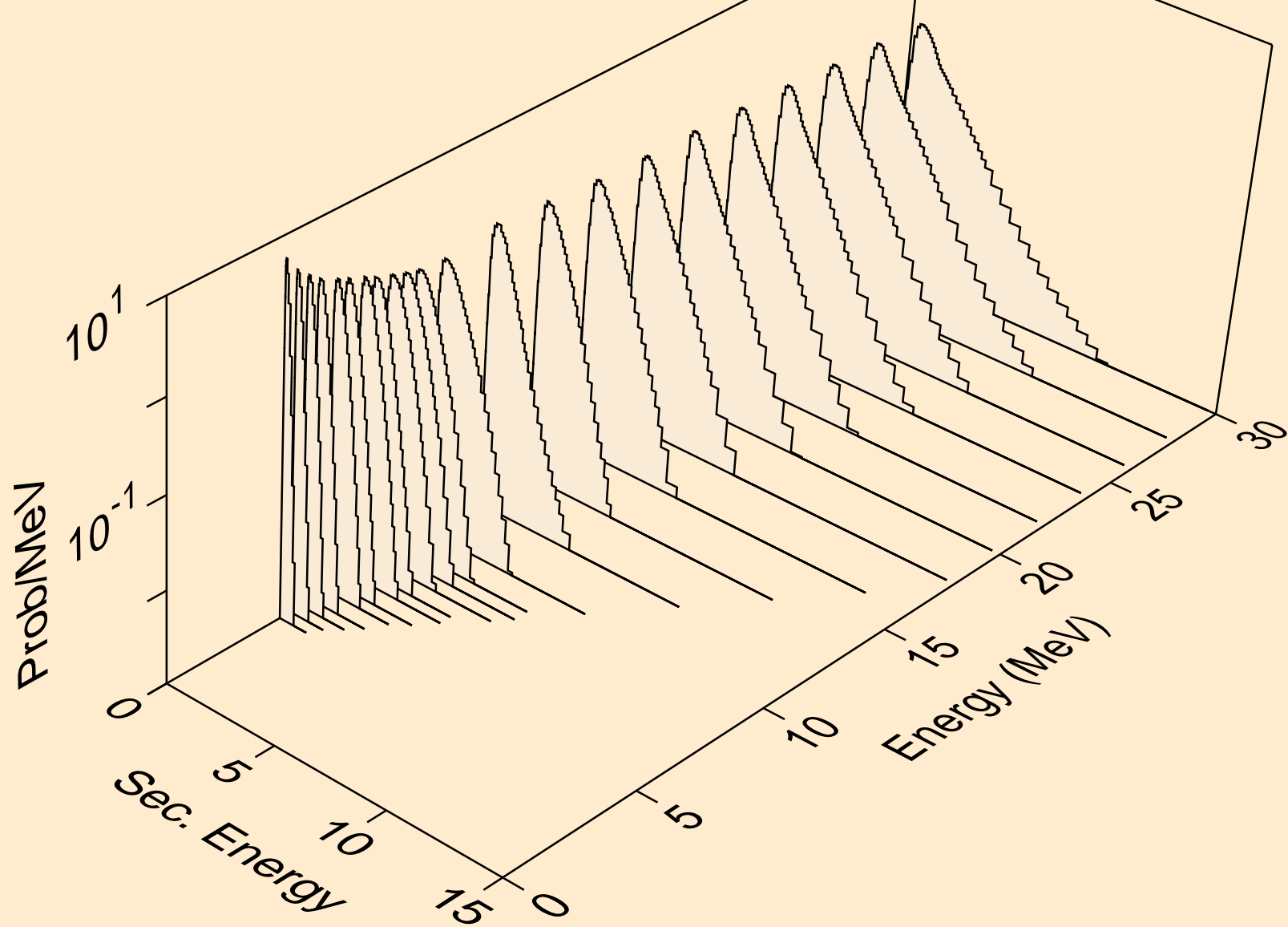




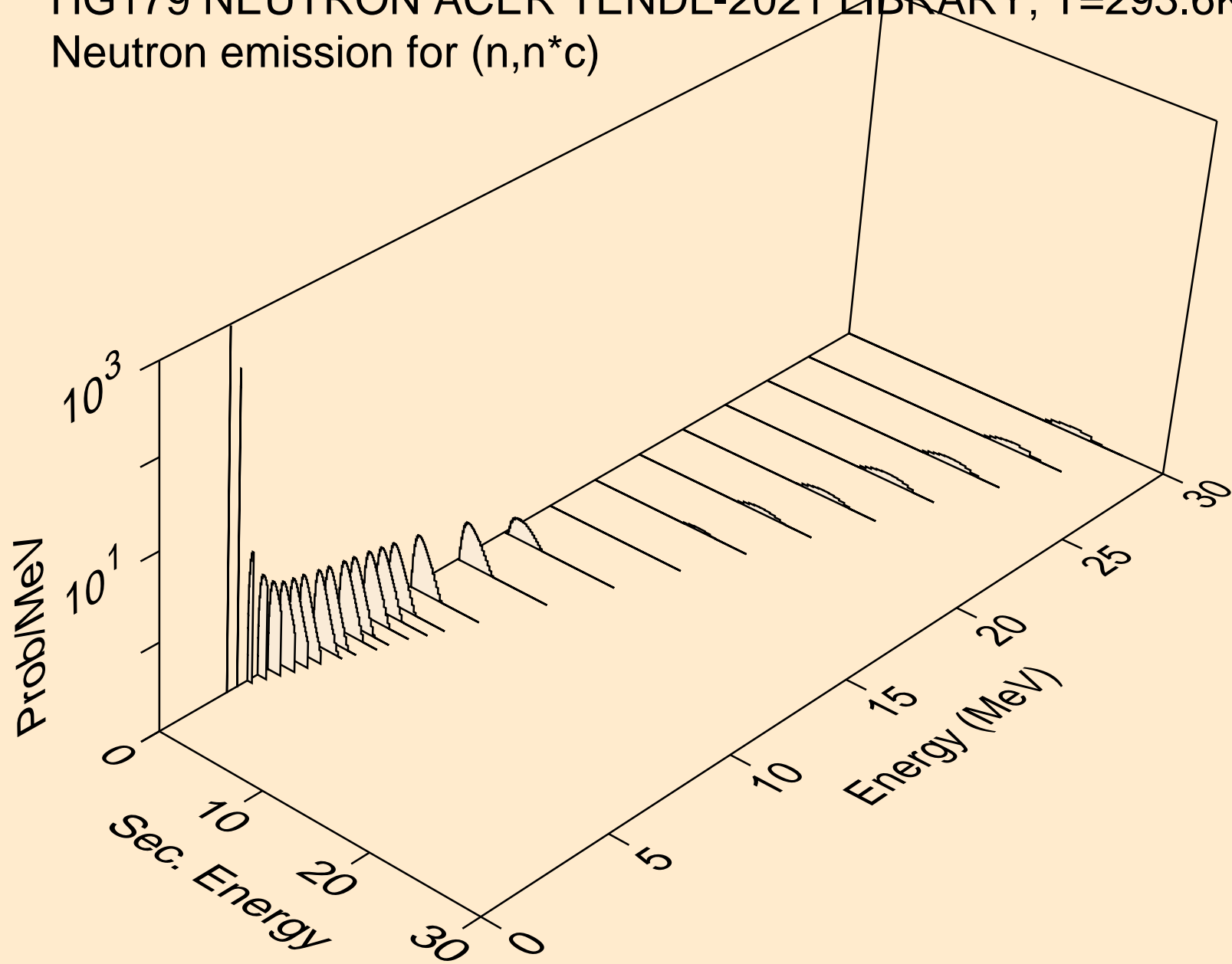
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Neutron emission for (n,2np)



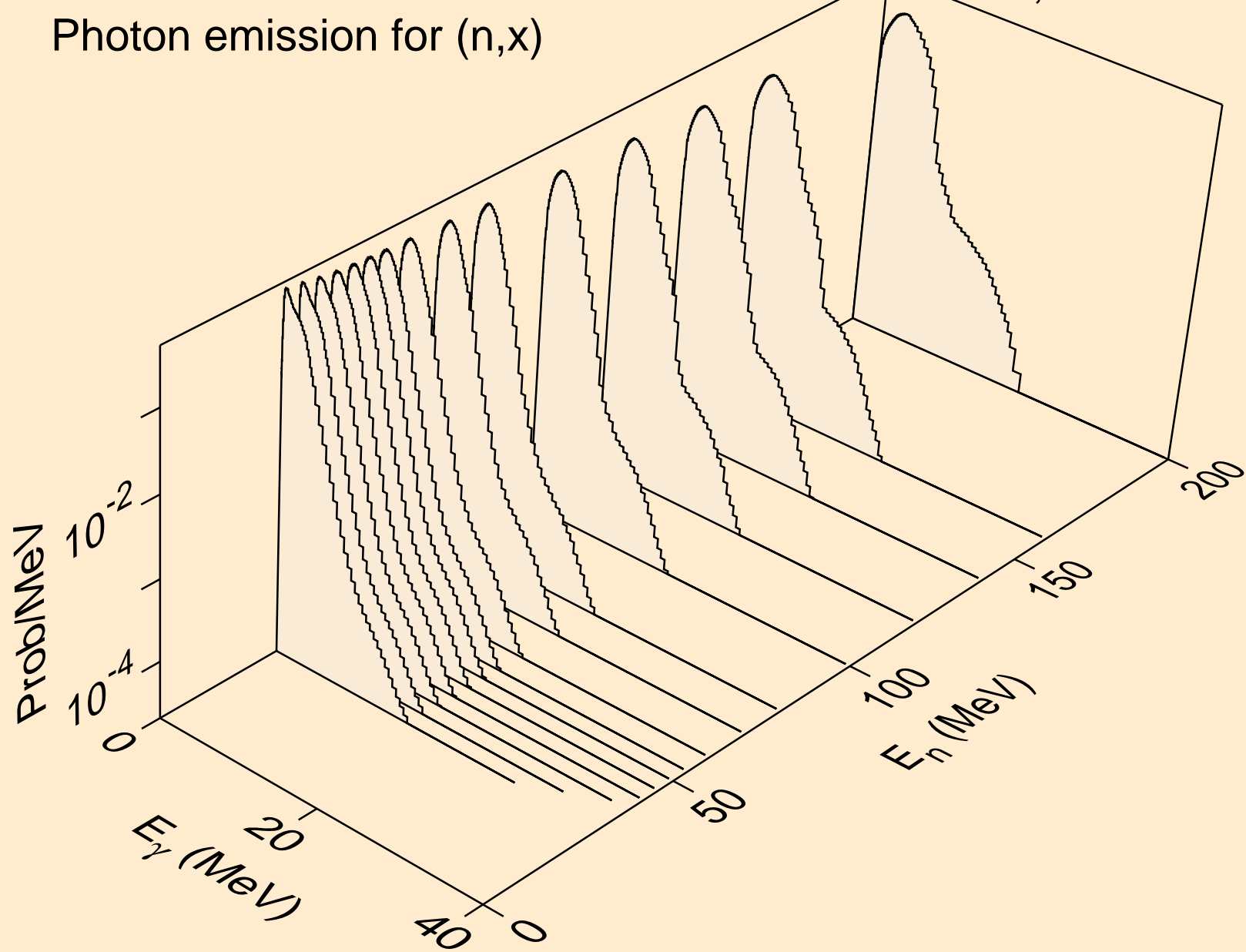
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Neutron emission for (n,npa)



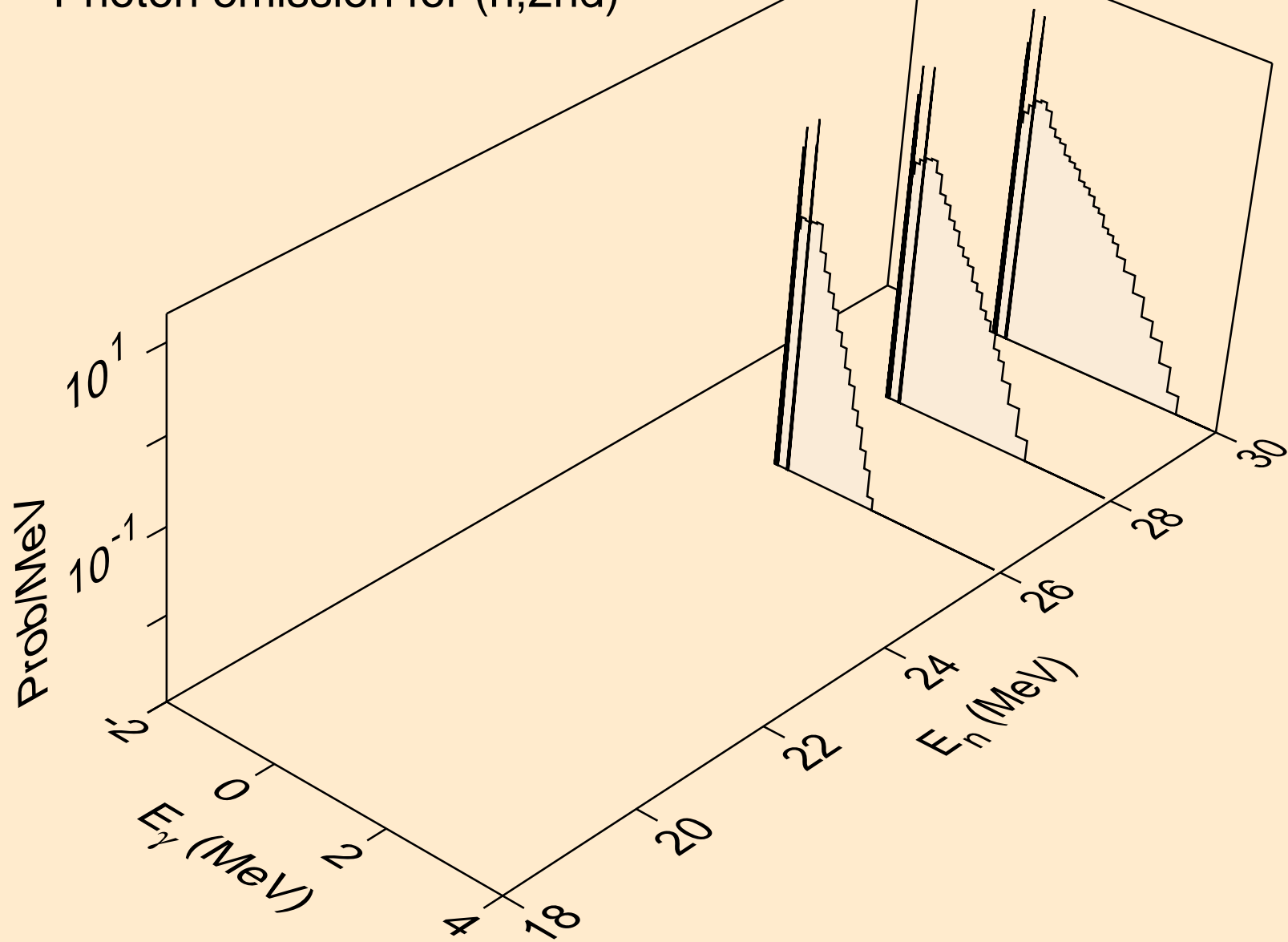
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Neutron emission for (n,n\*c)



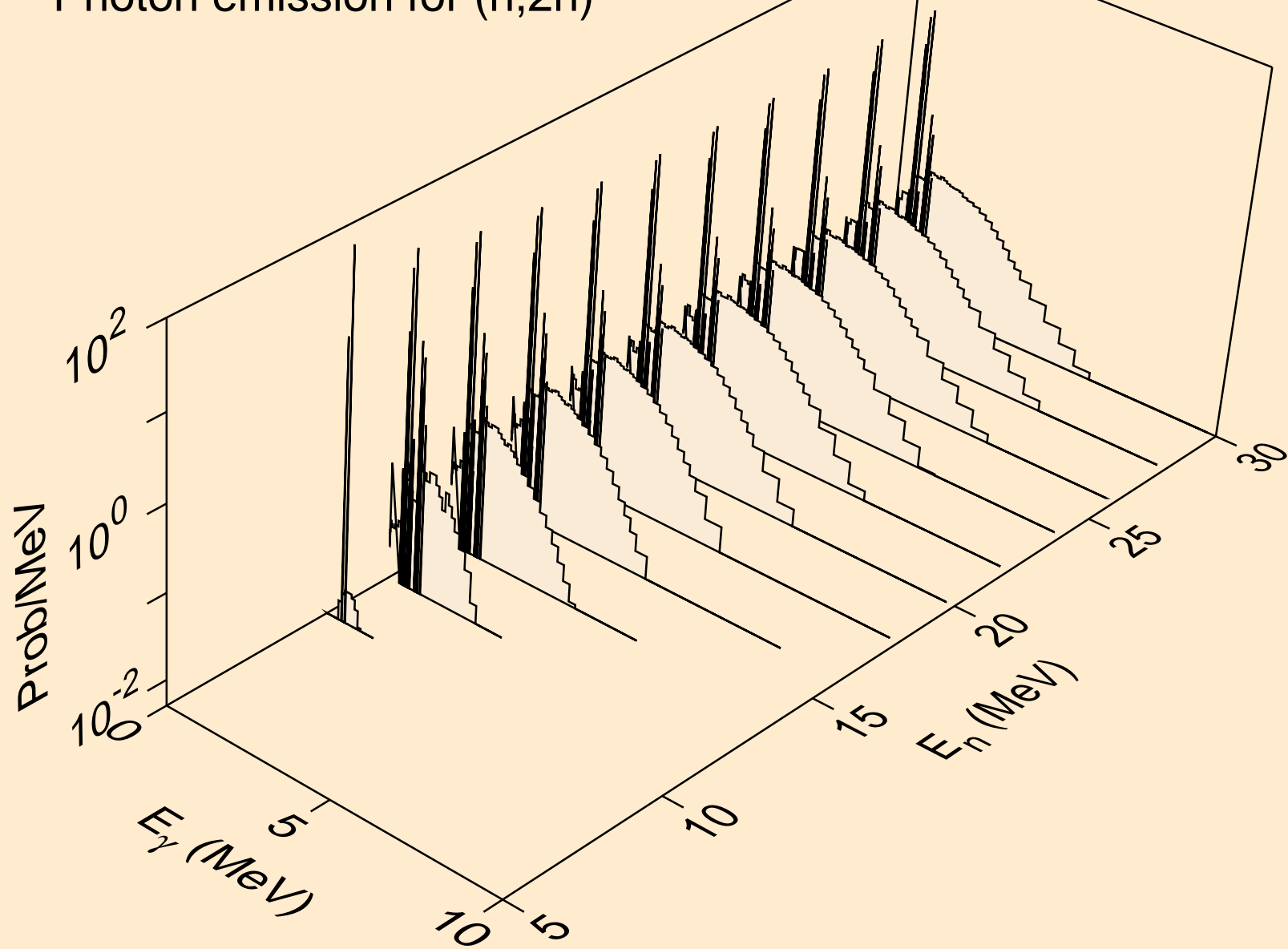
HG179 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,x)



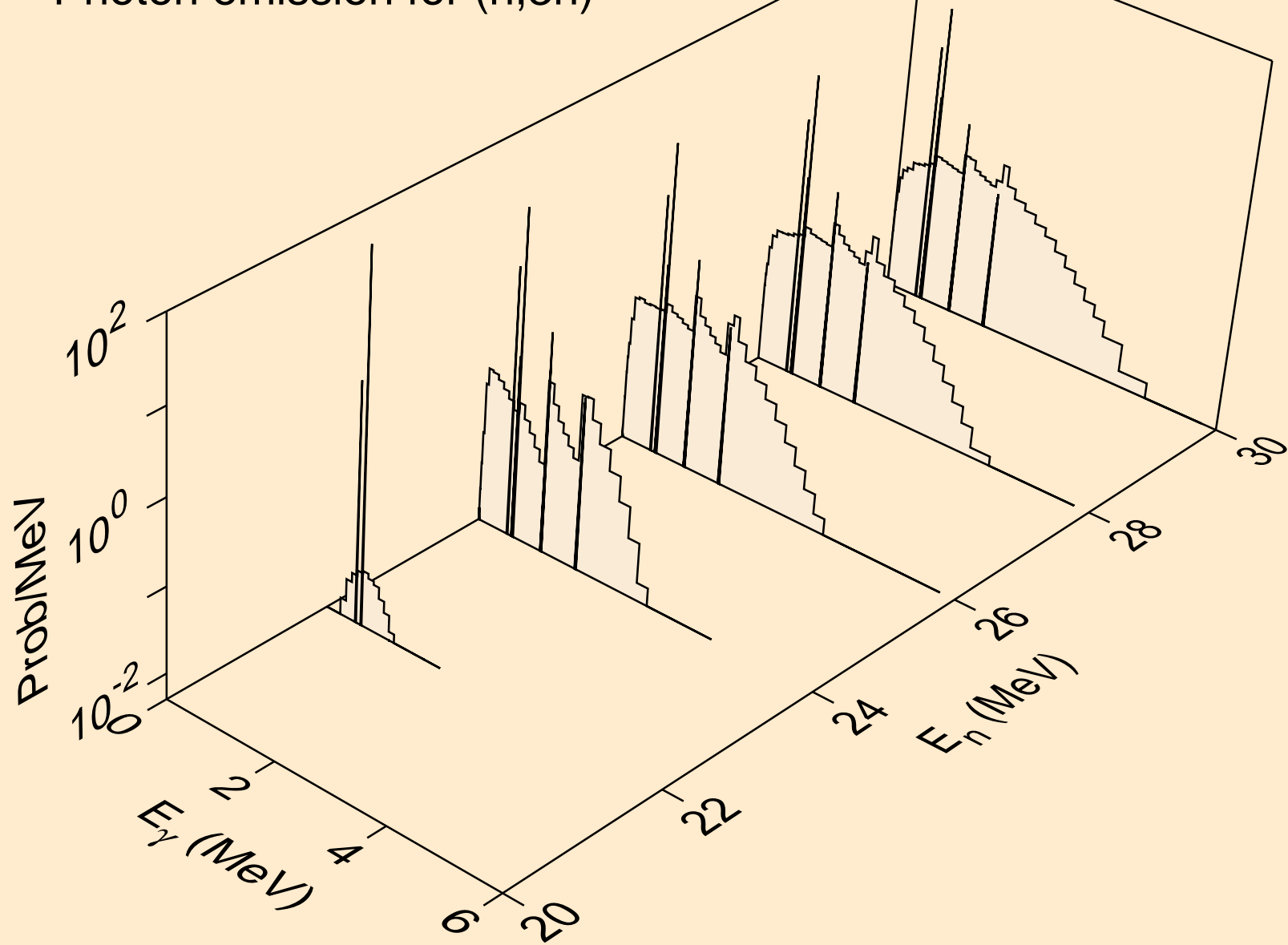
HG179 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,2nd)



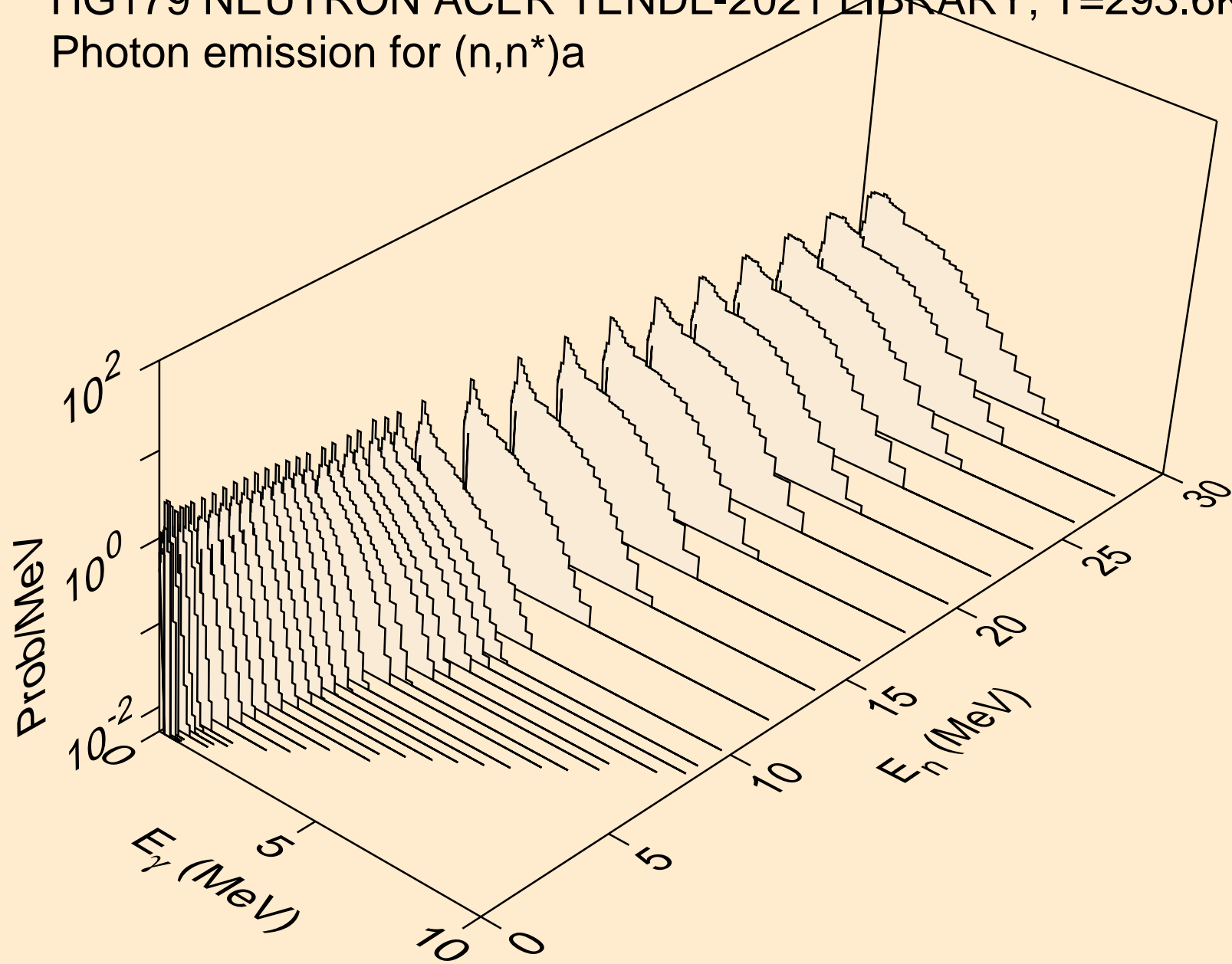
HG179 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,2n)



HG179 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,3n)

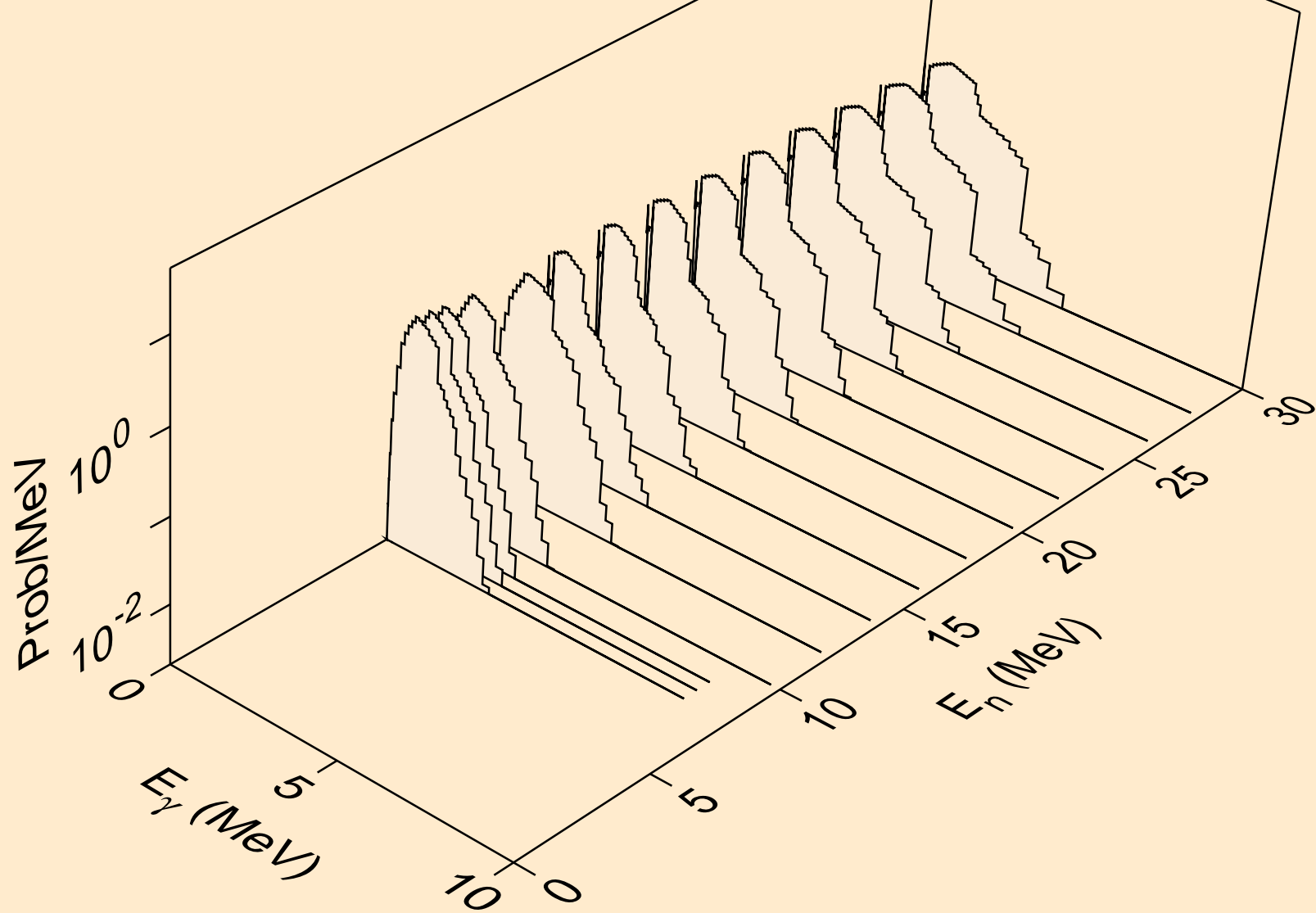


HG179 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,n\*)a

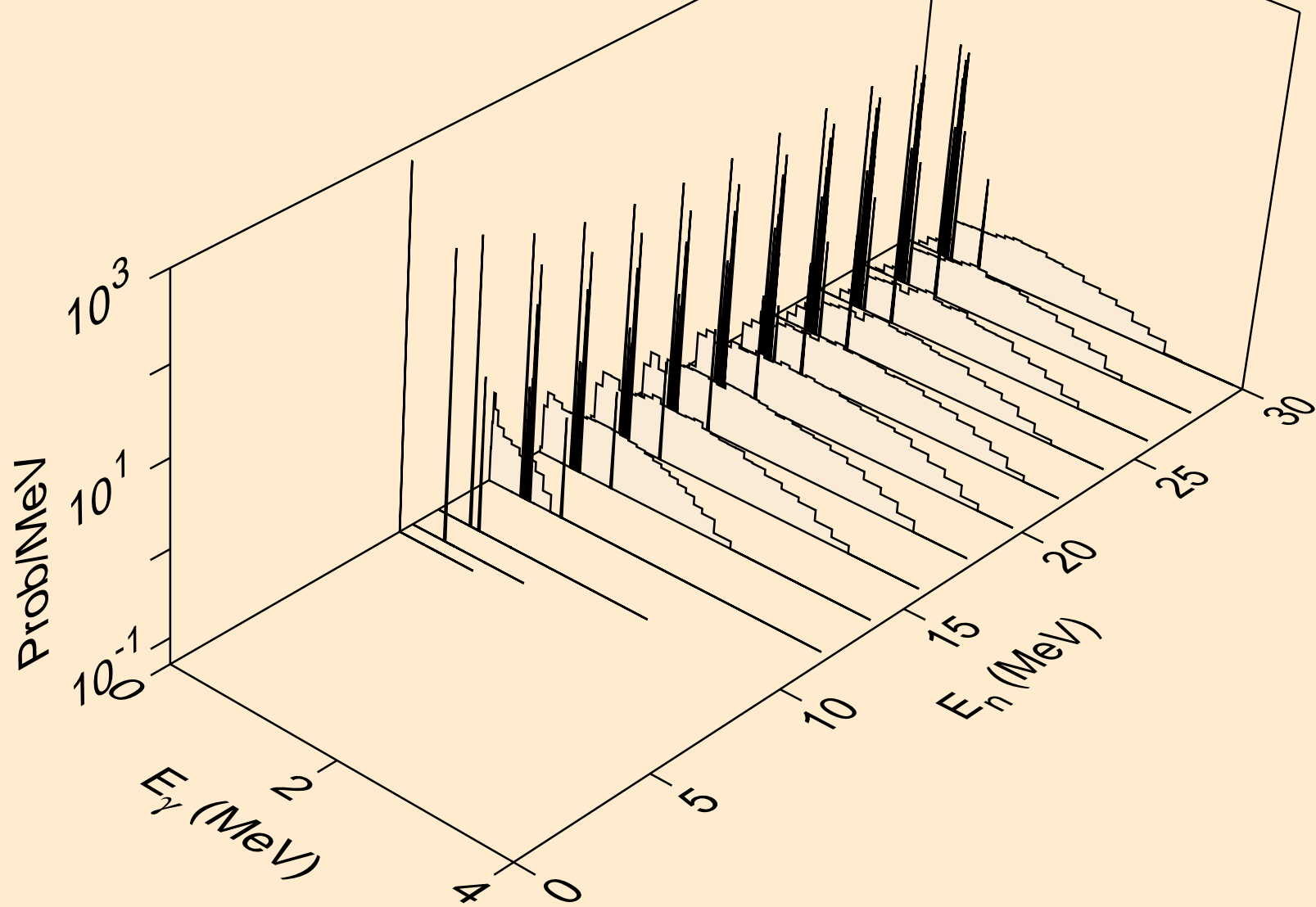




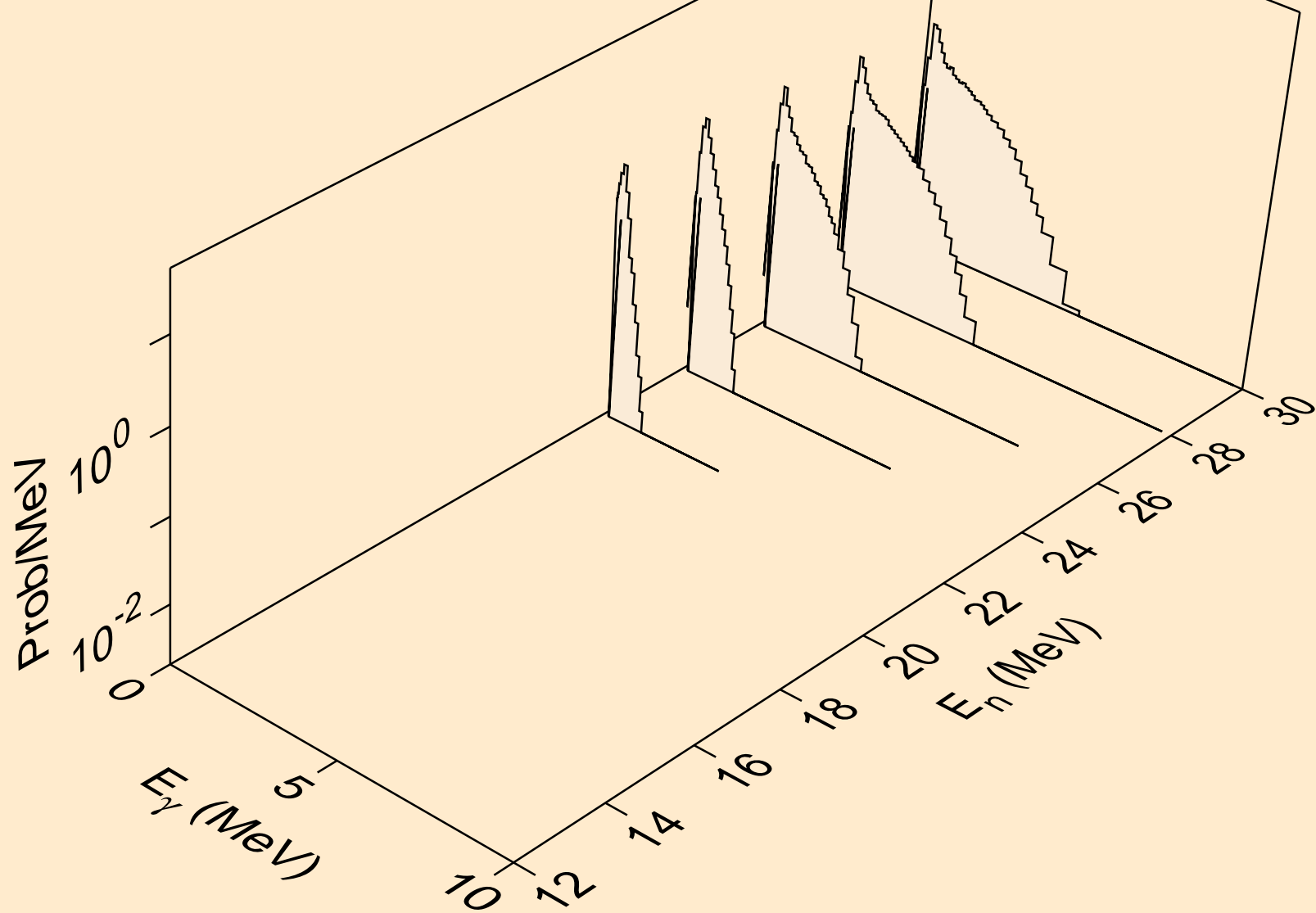
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Photon emission for (n,n\*)3a



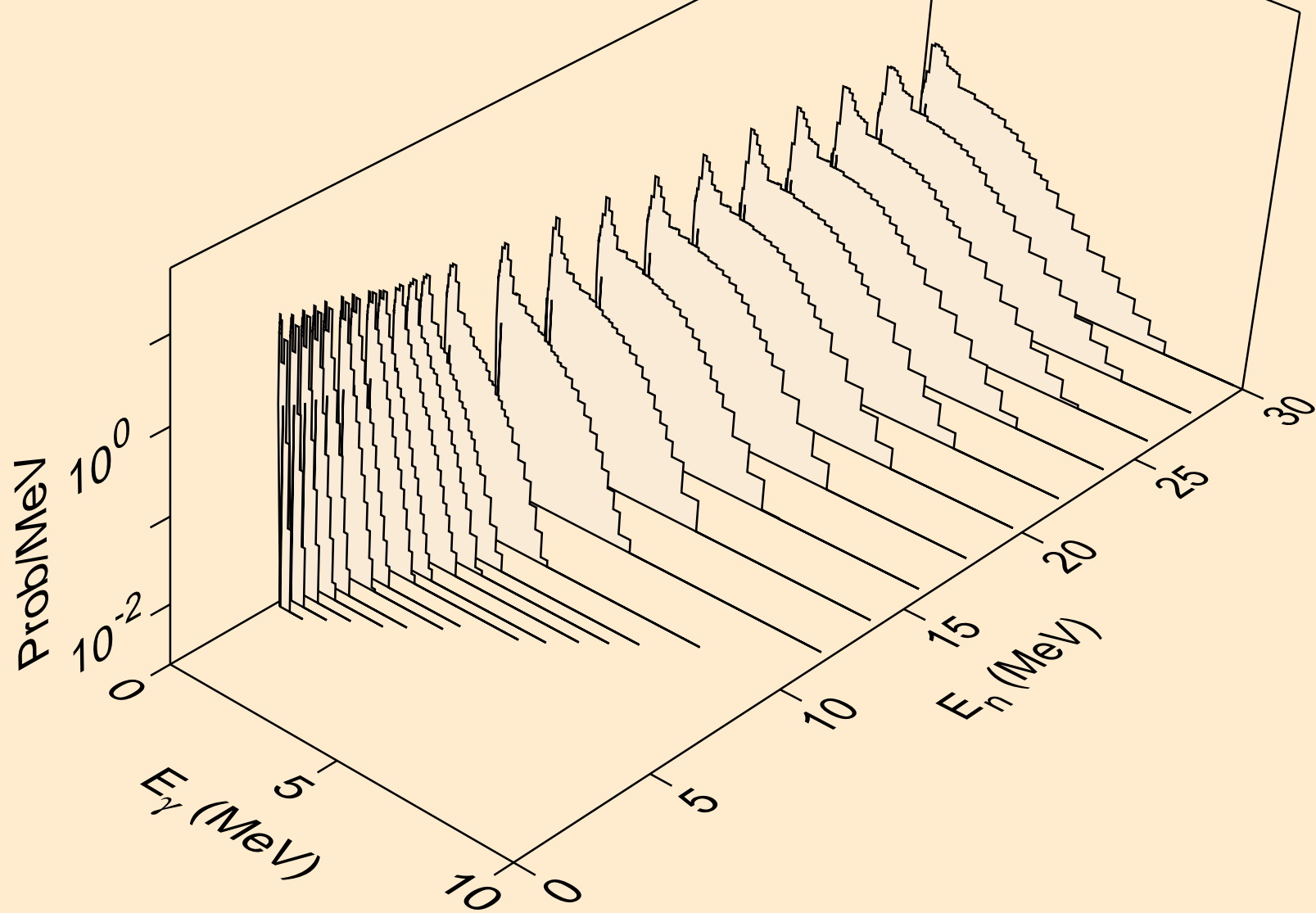
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Photon emission for (n,2n)a



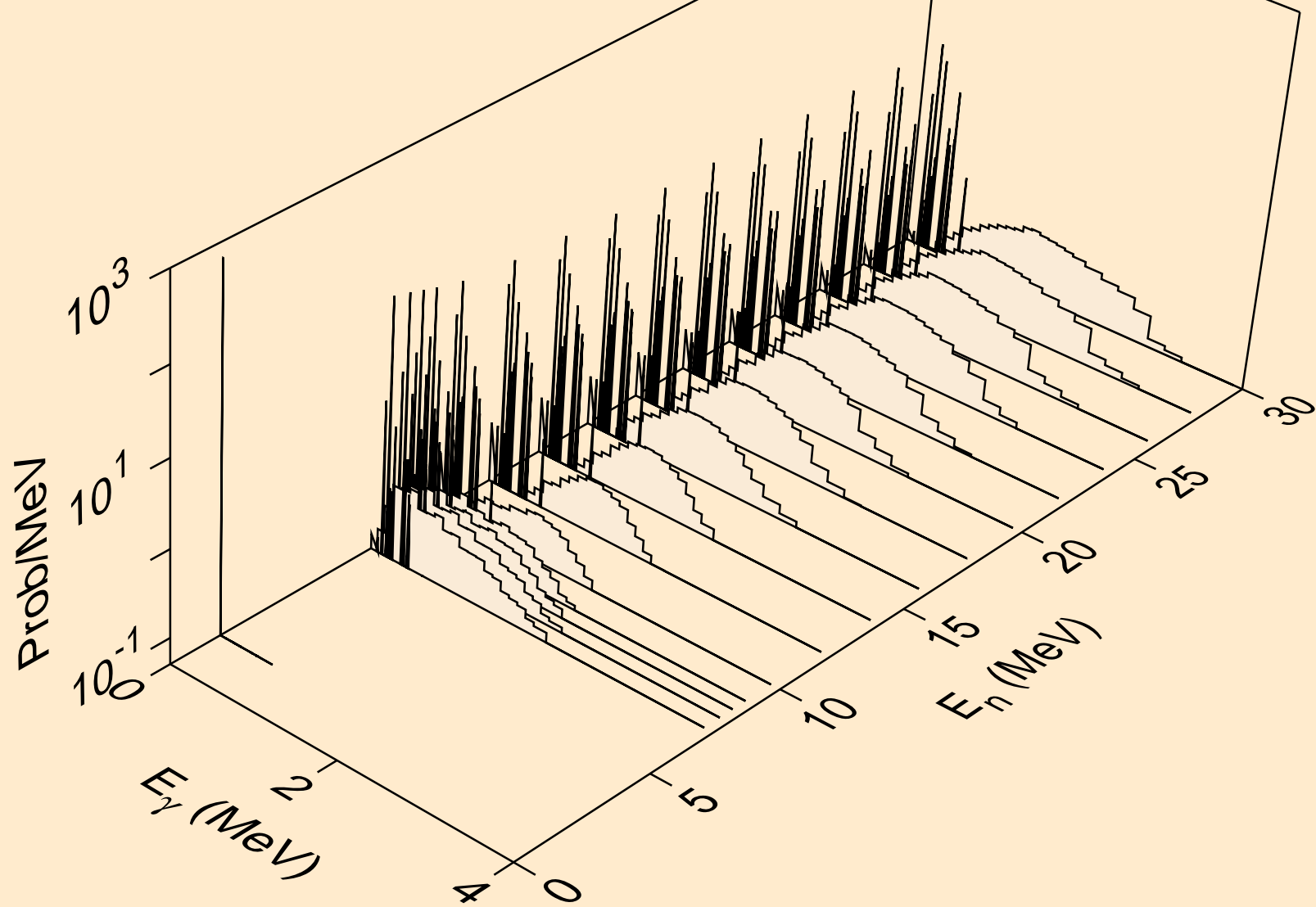
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Photon emission for (n,3n)a



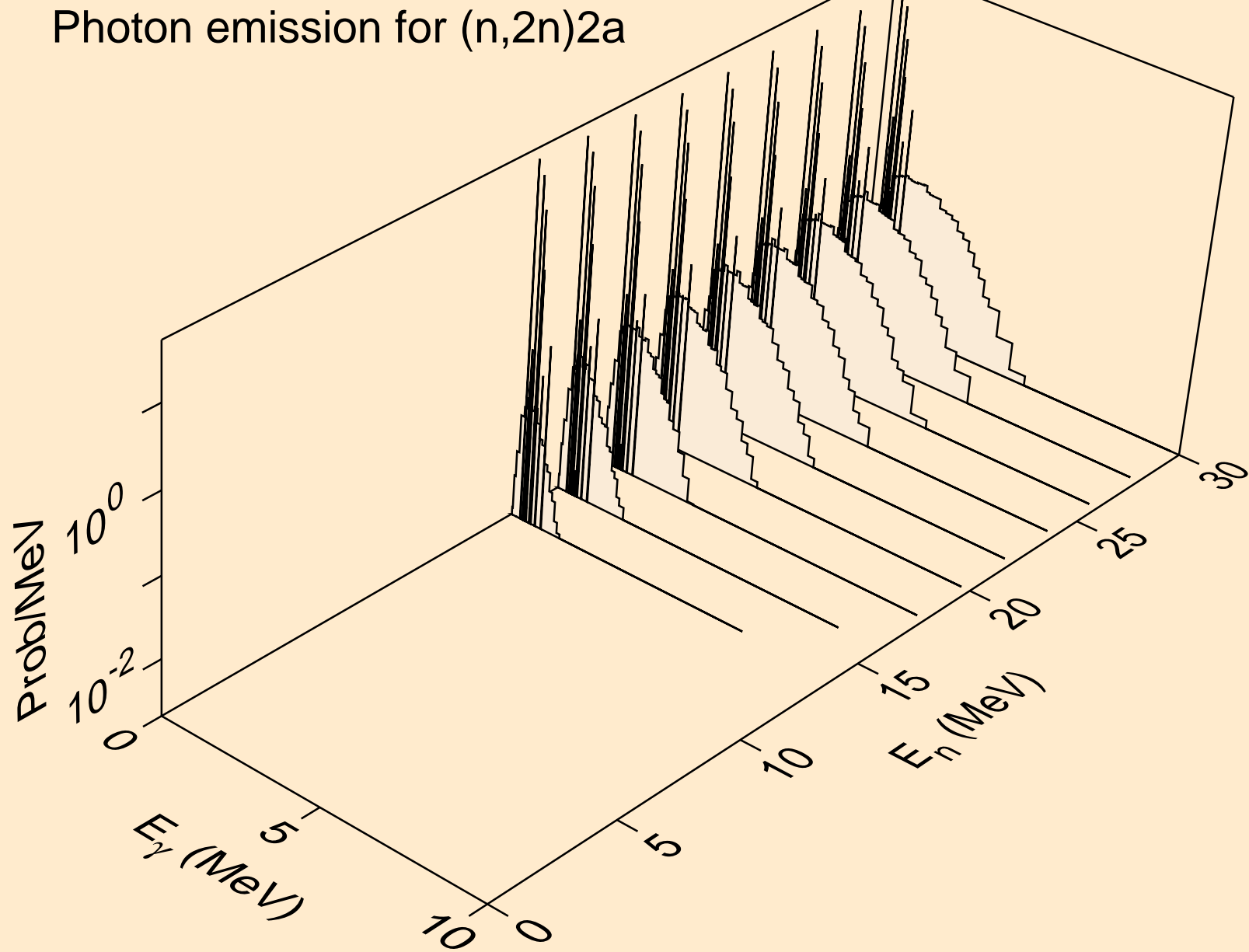
HG179 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,n\*)p



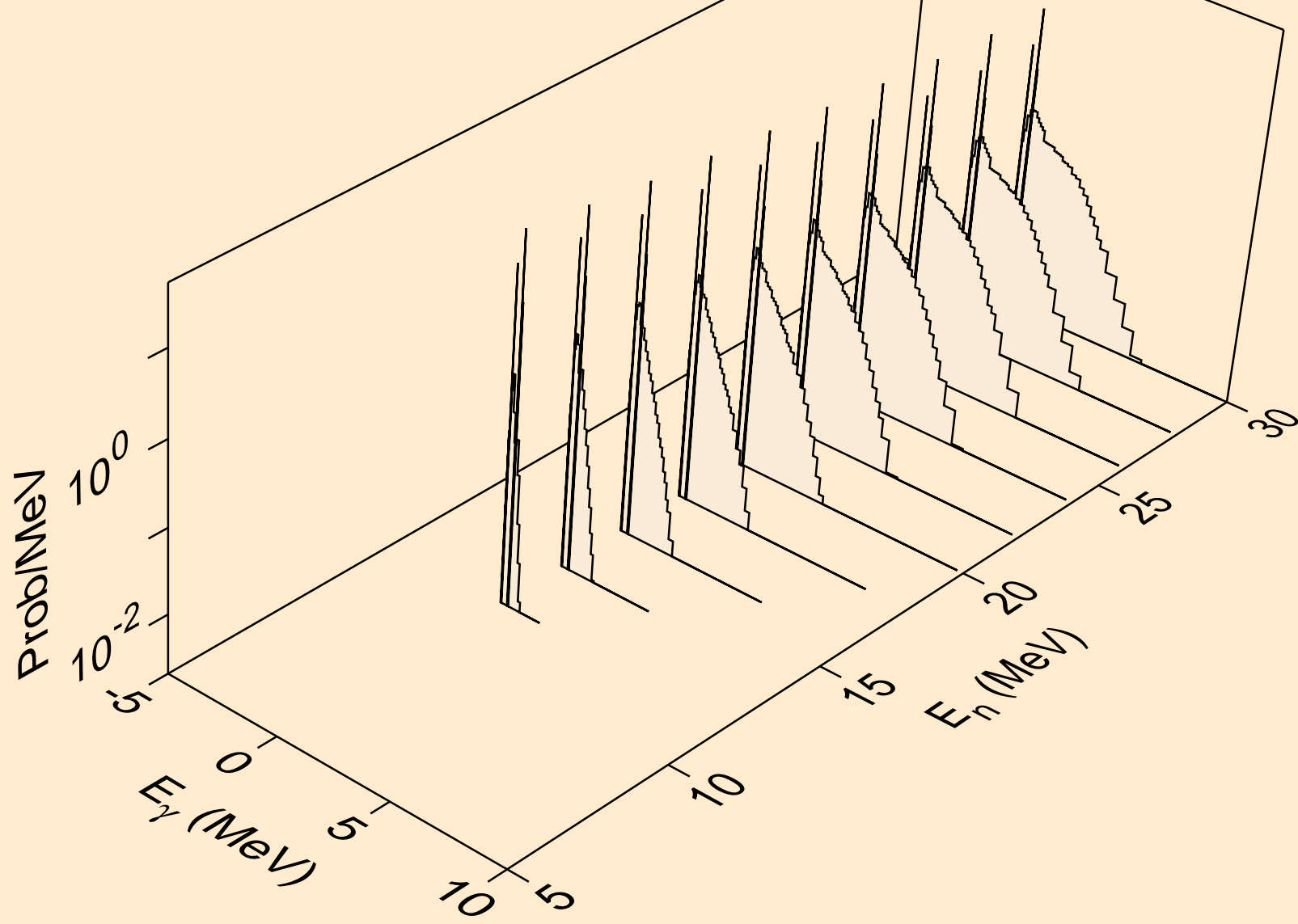
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Photon emission for (n,n\*)2a



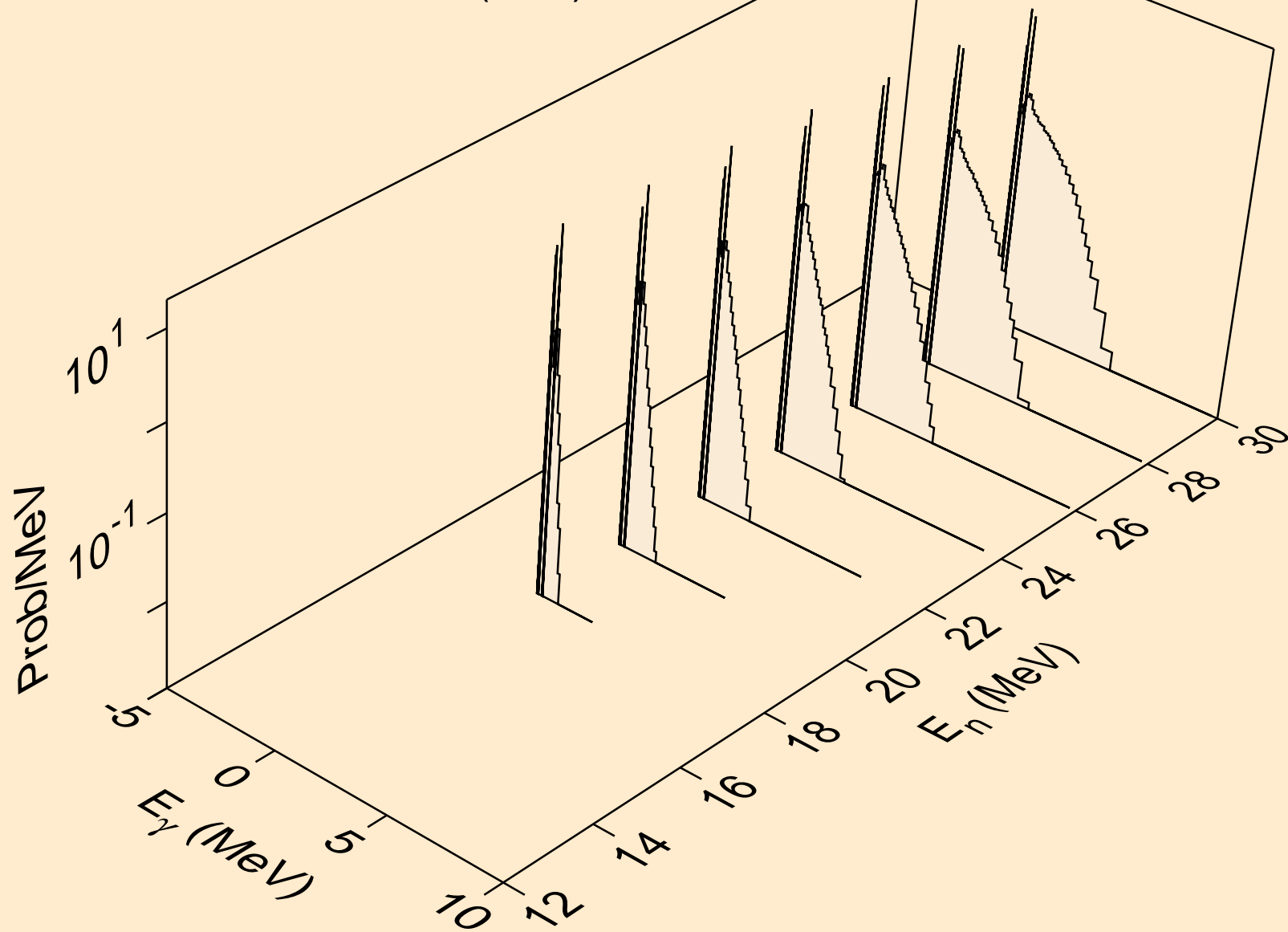
HG179 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,2n)2a



HG179 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,n\*)d

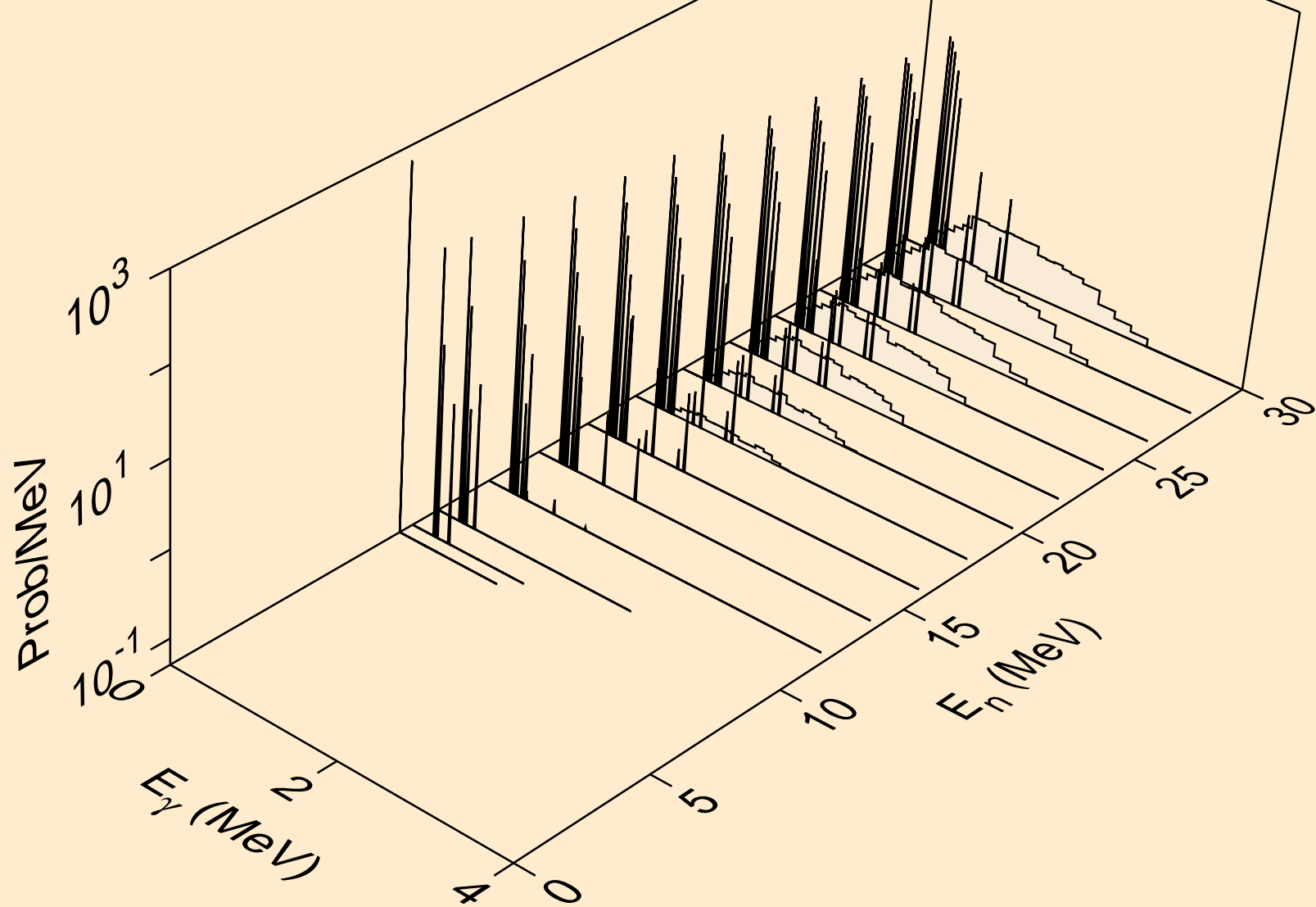


HG179 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,n\*)t

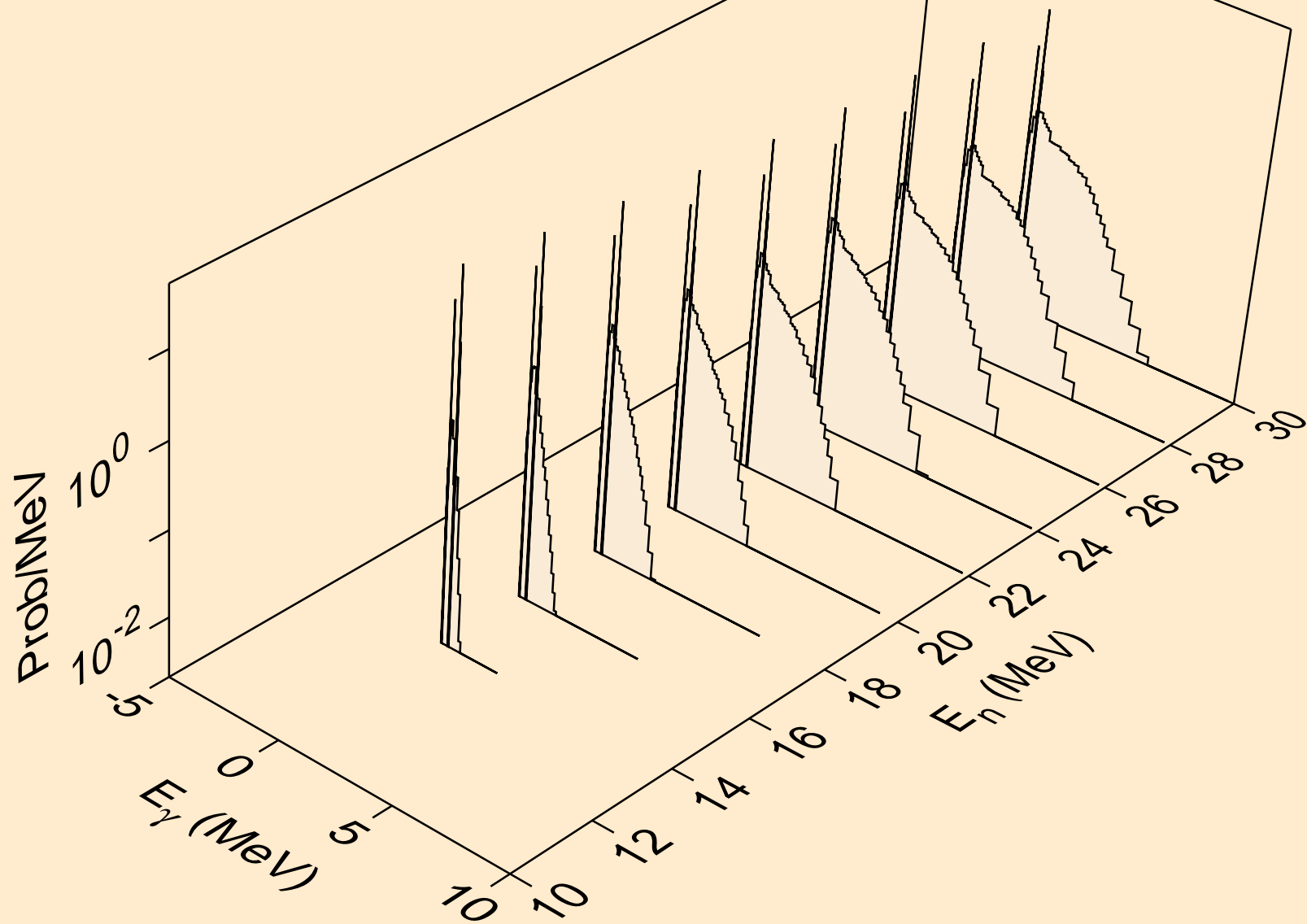




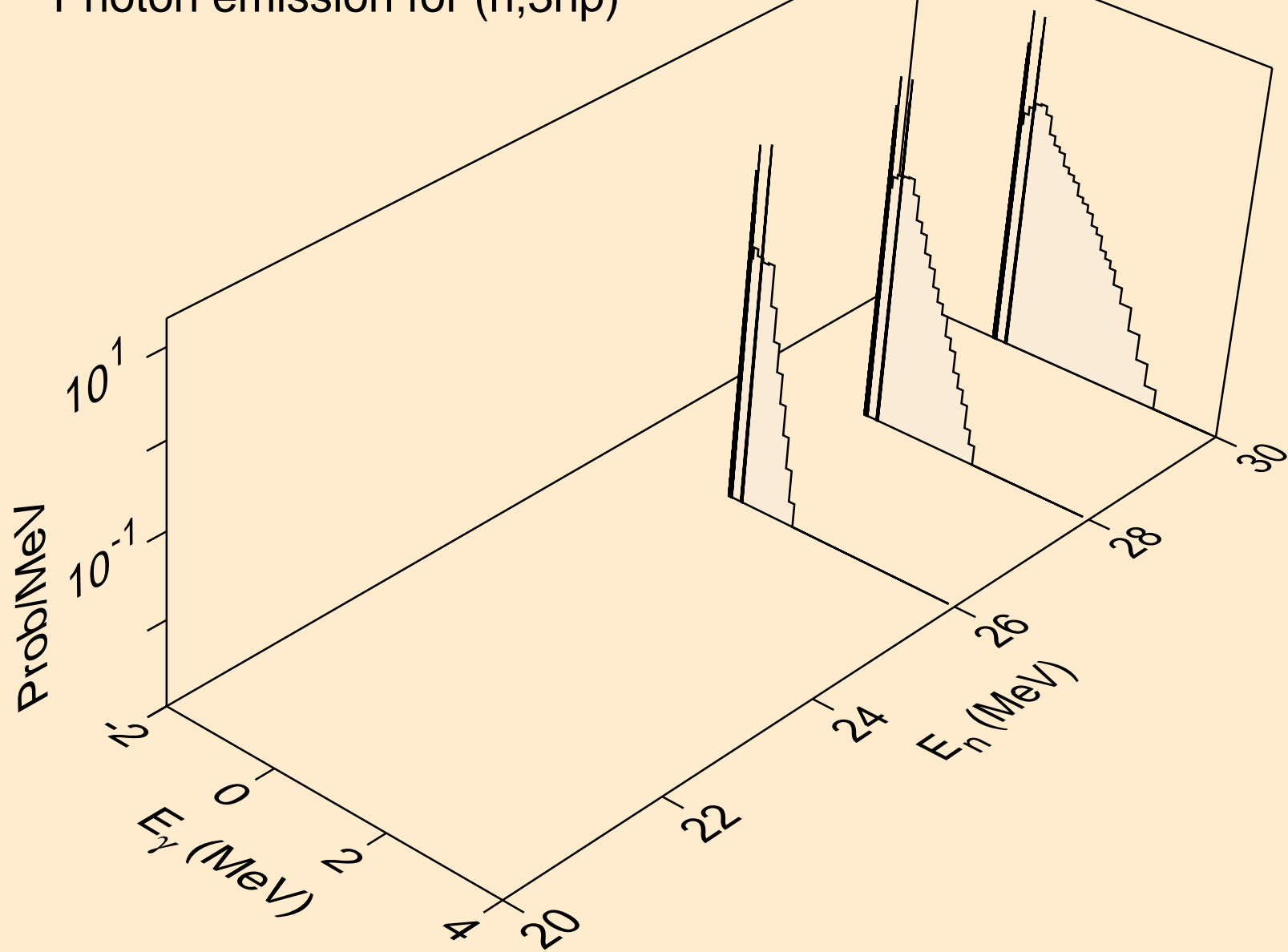
HG179 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,n\*)he3



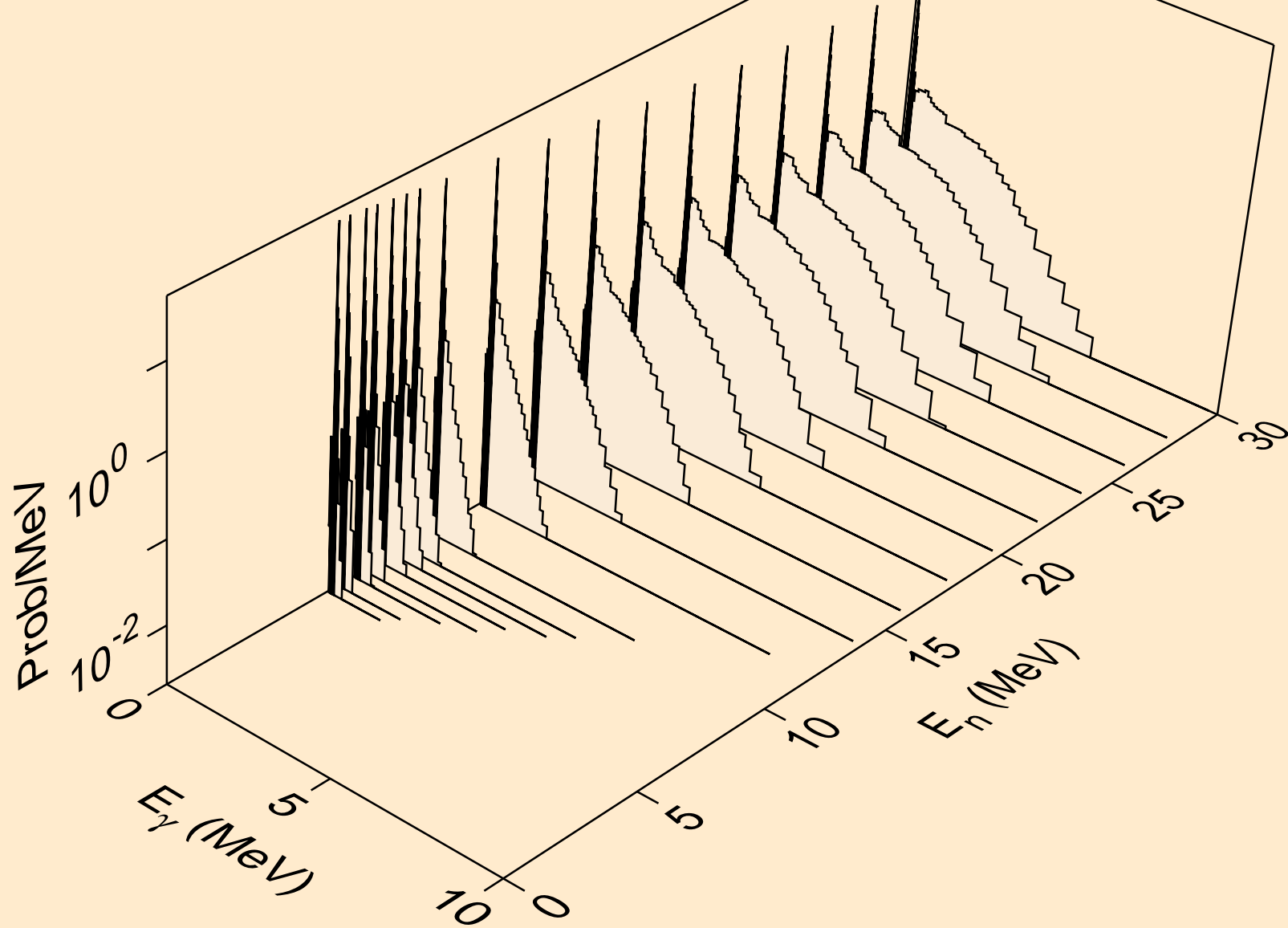
HG179 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,2np)



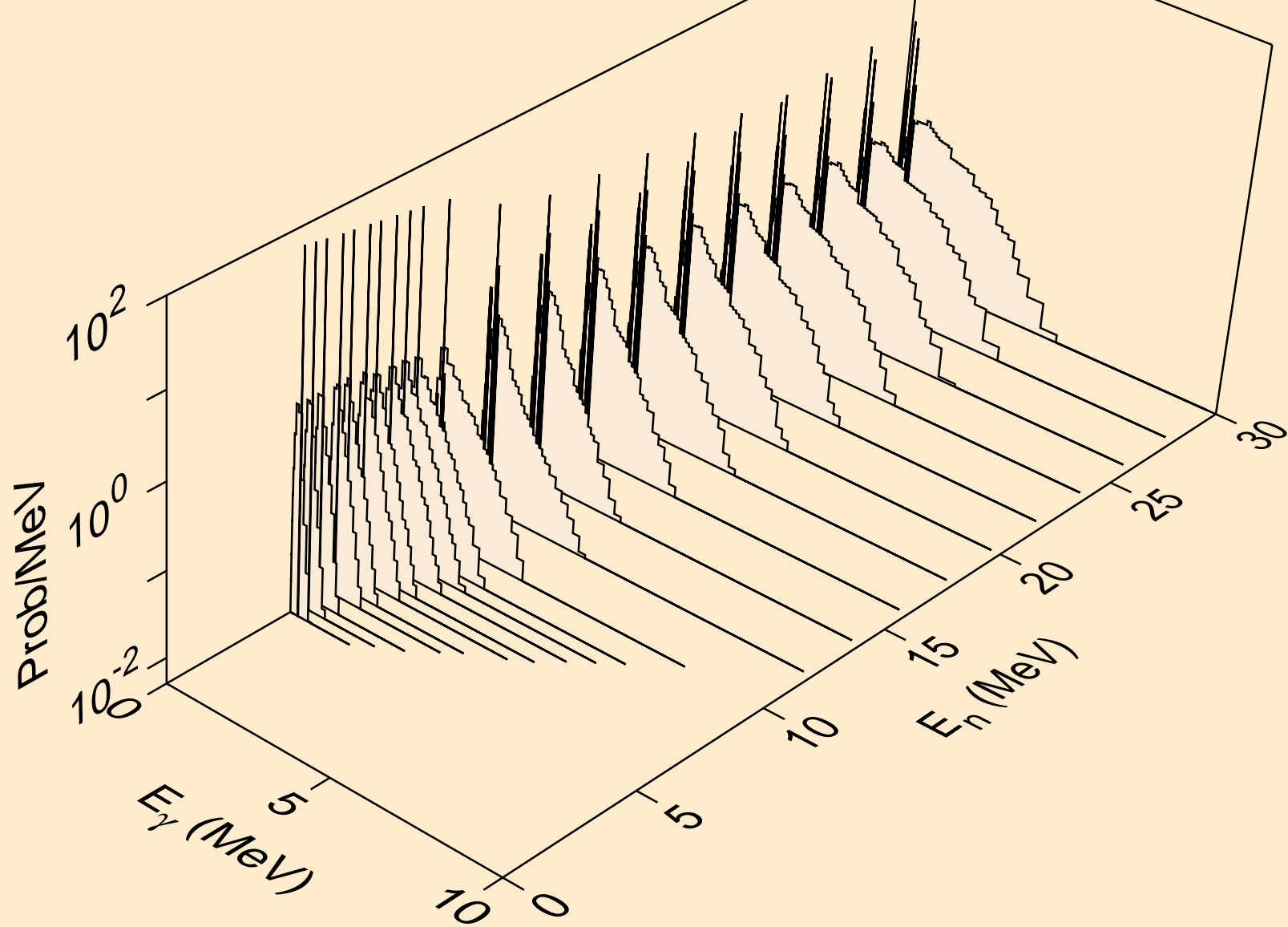
HG179 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,3np)



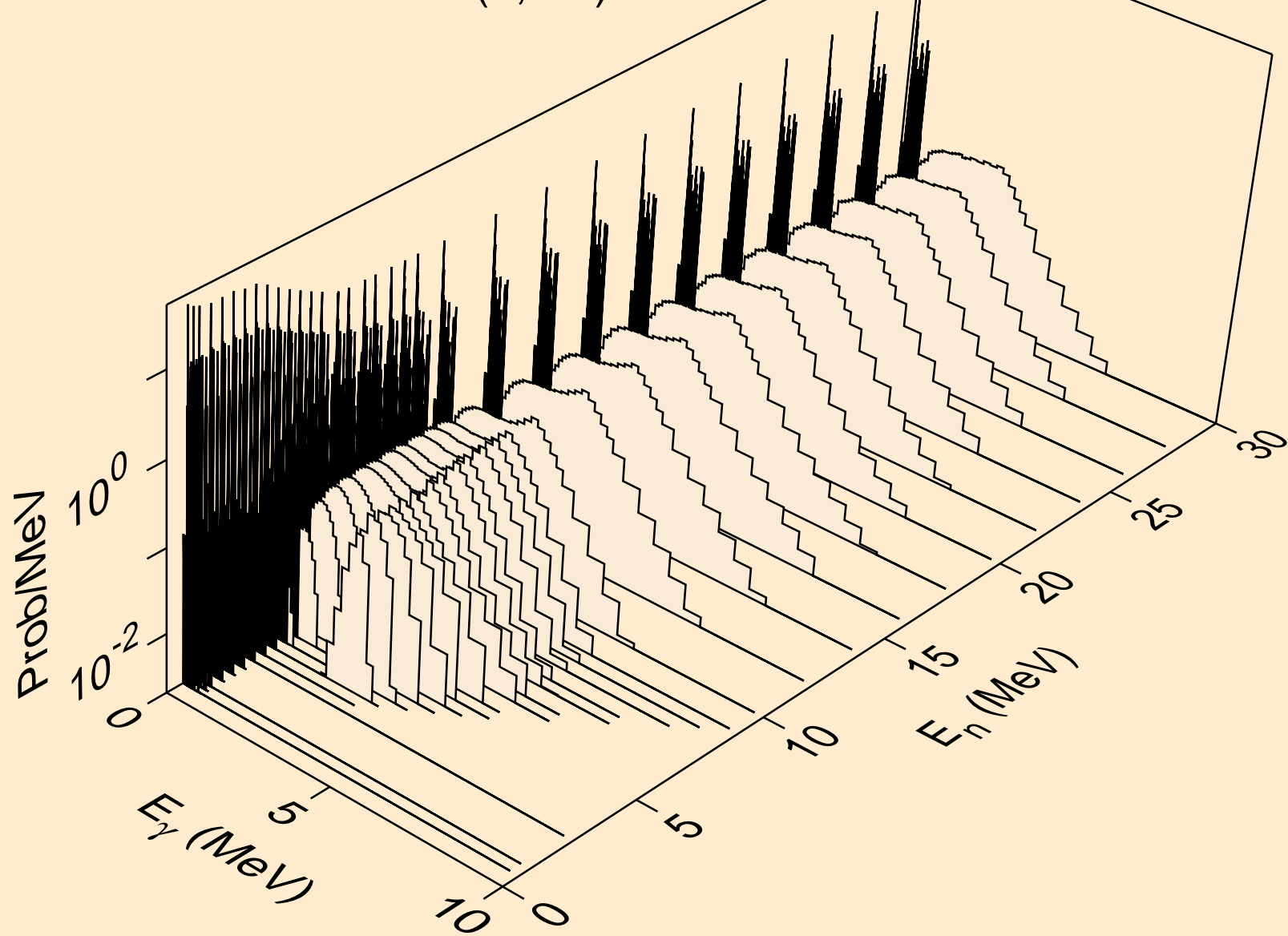
HG179 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,2np)



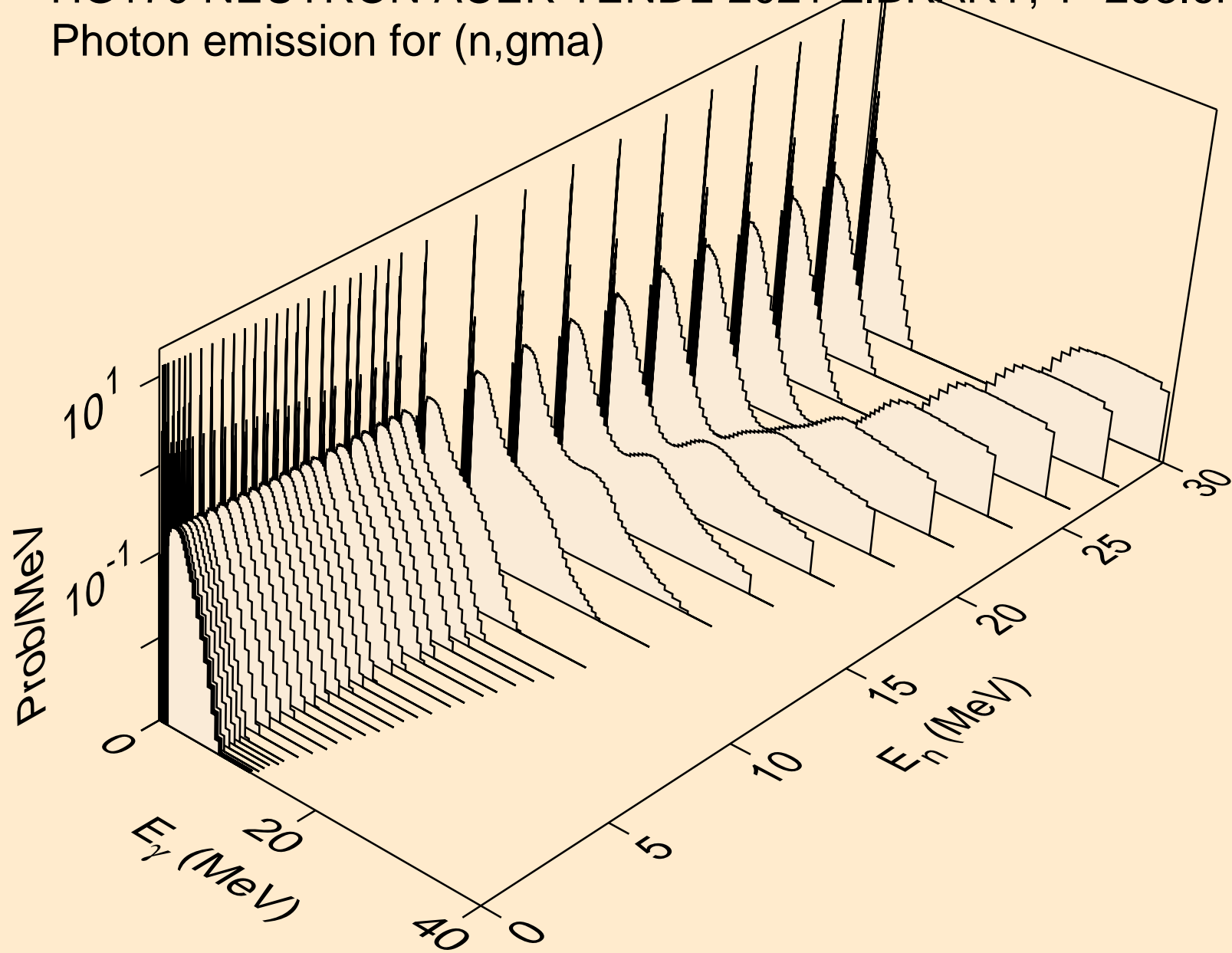
HG179 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,npa)



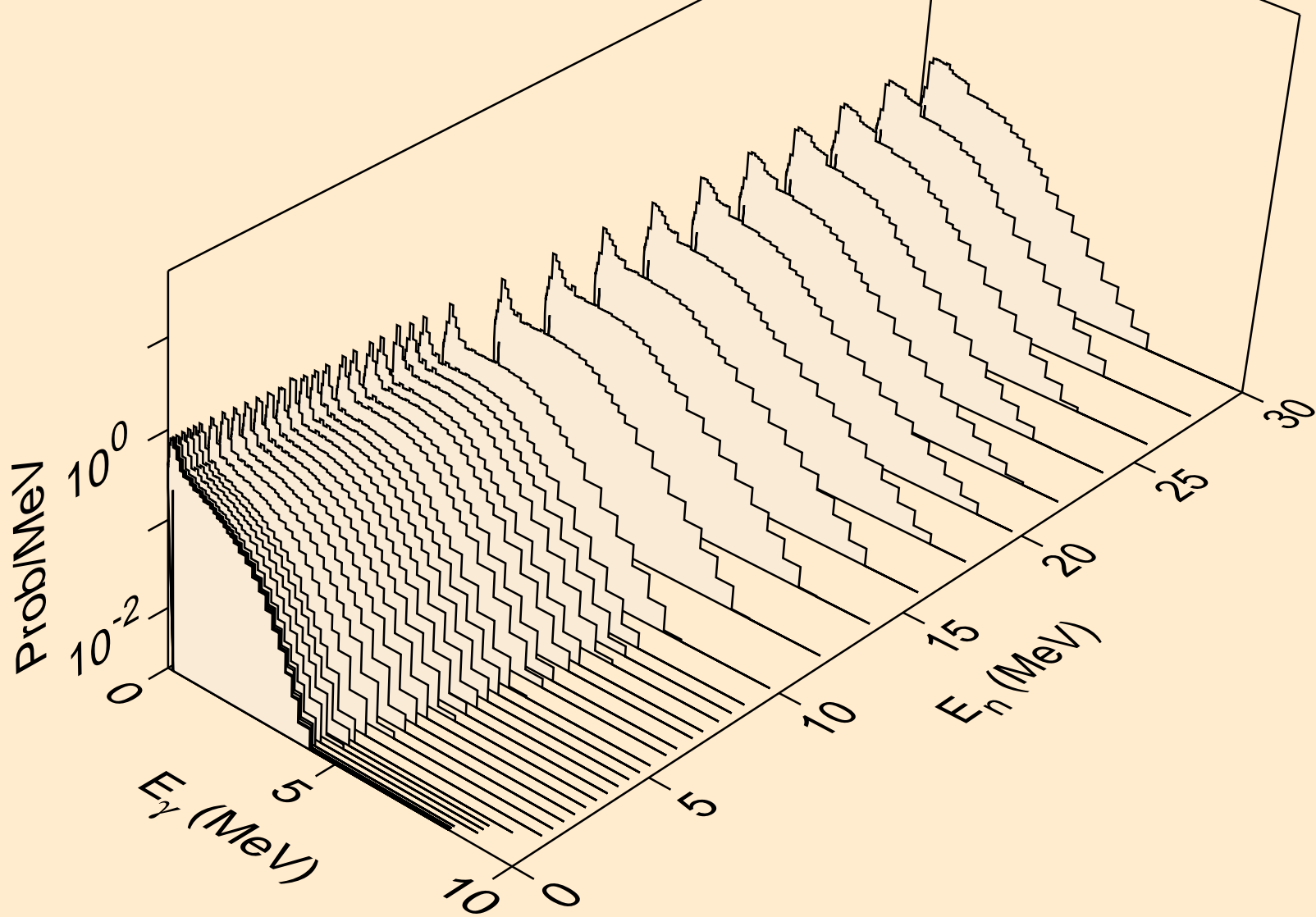
HG179 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,n\*c)



HG179 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,gma)

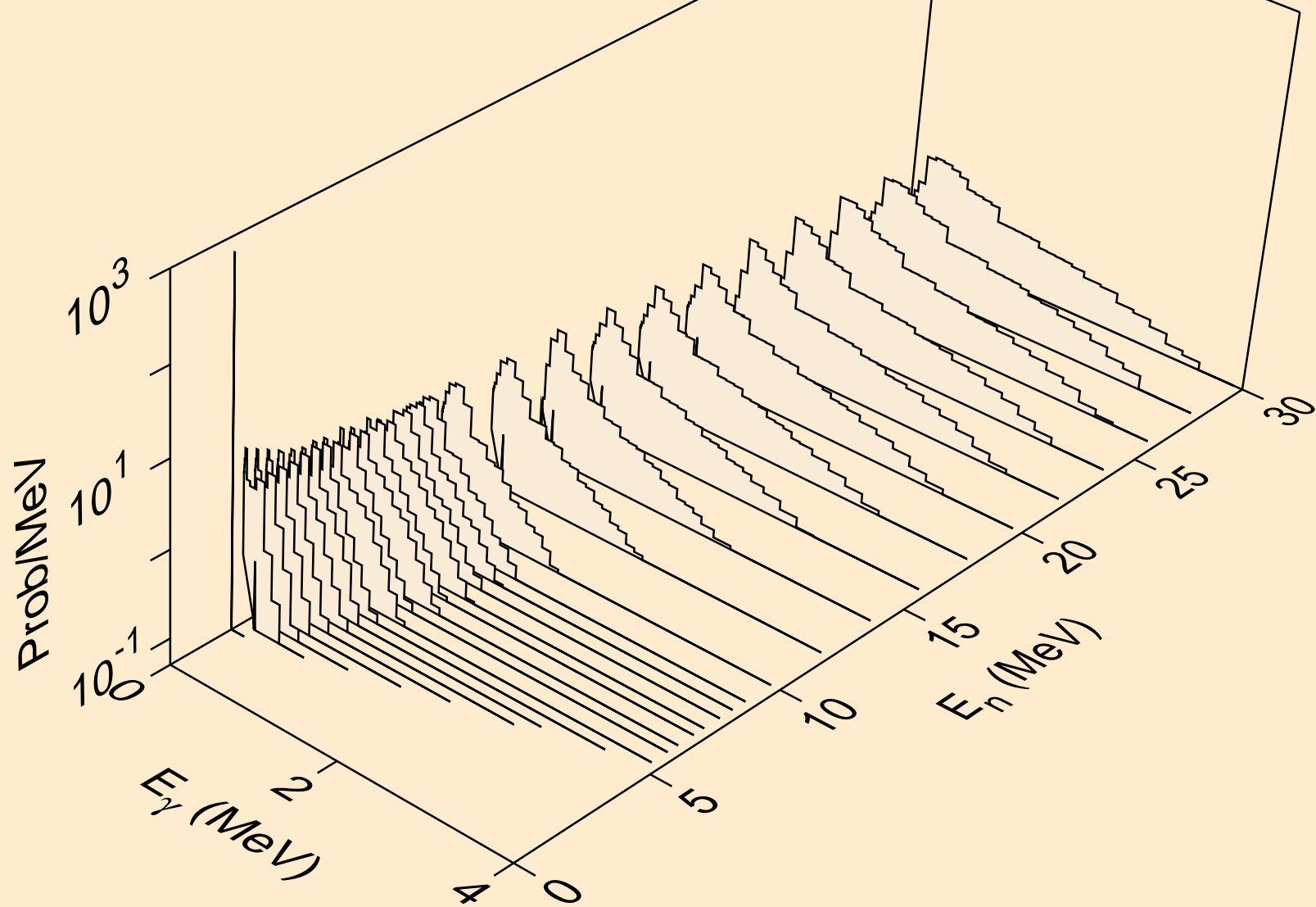


HG179 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,p)

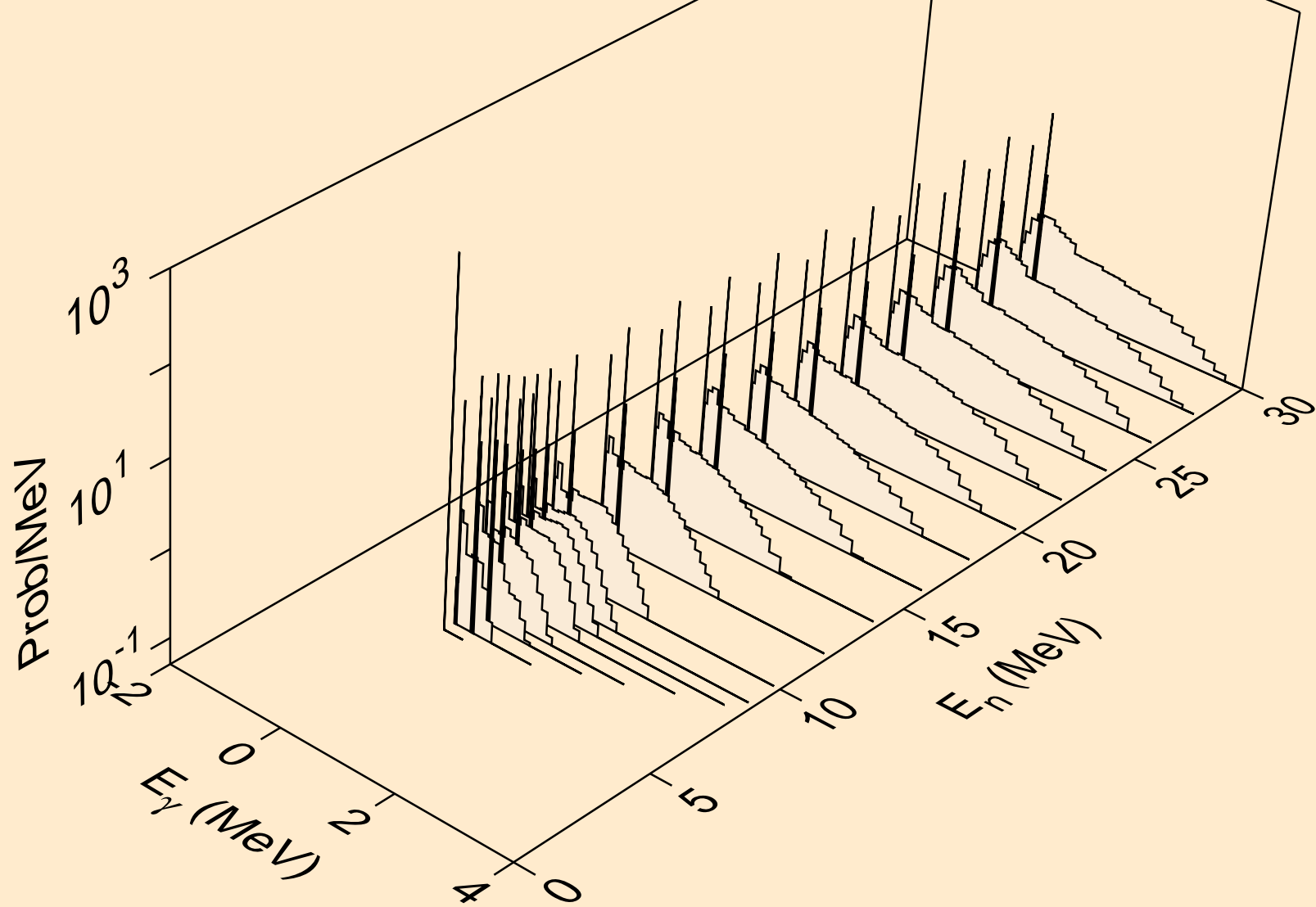




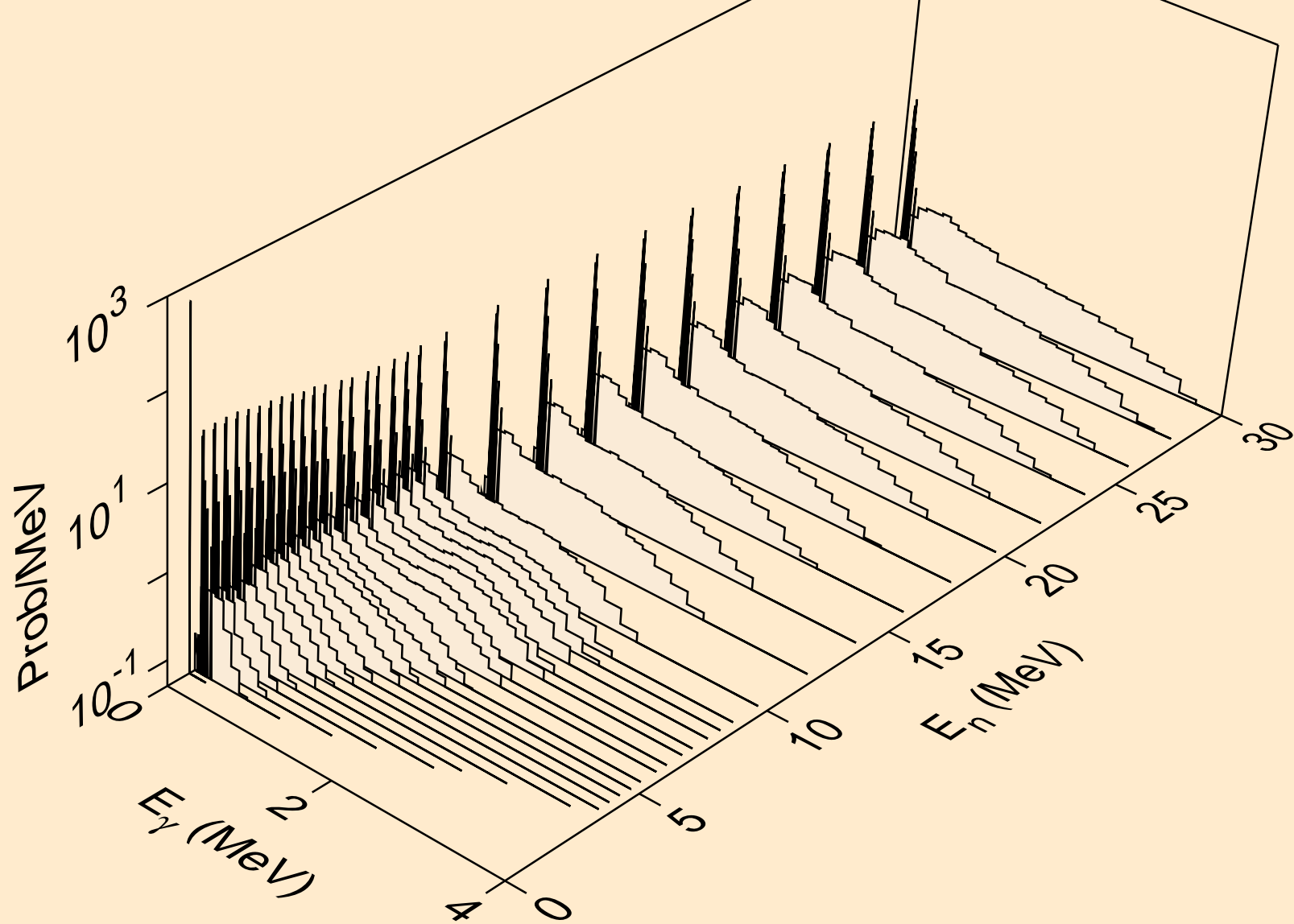
HG179 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,d)



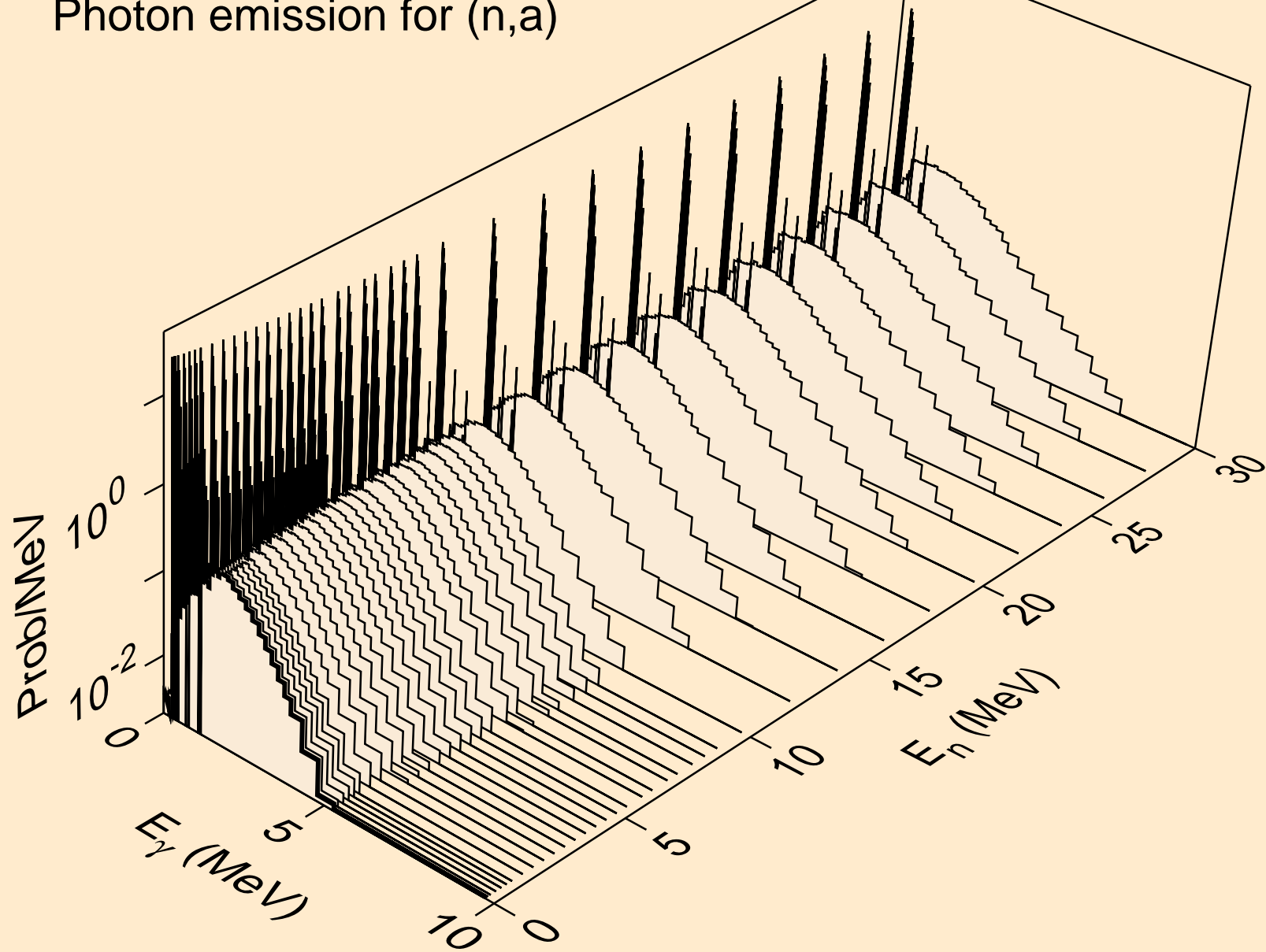
HG179 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,t)



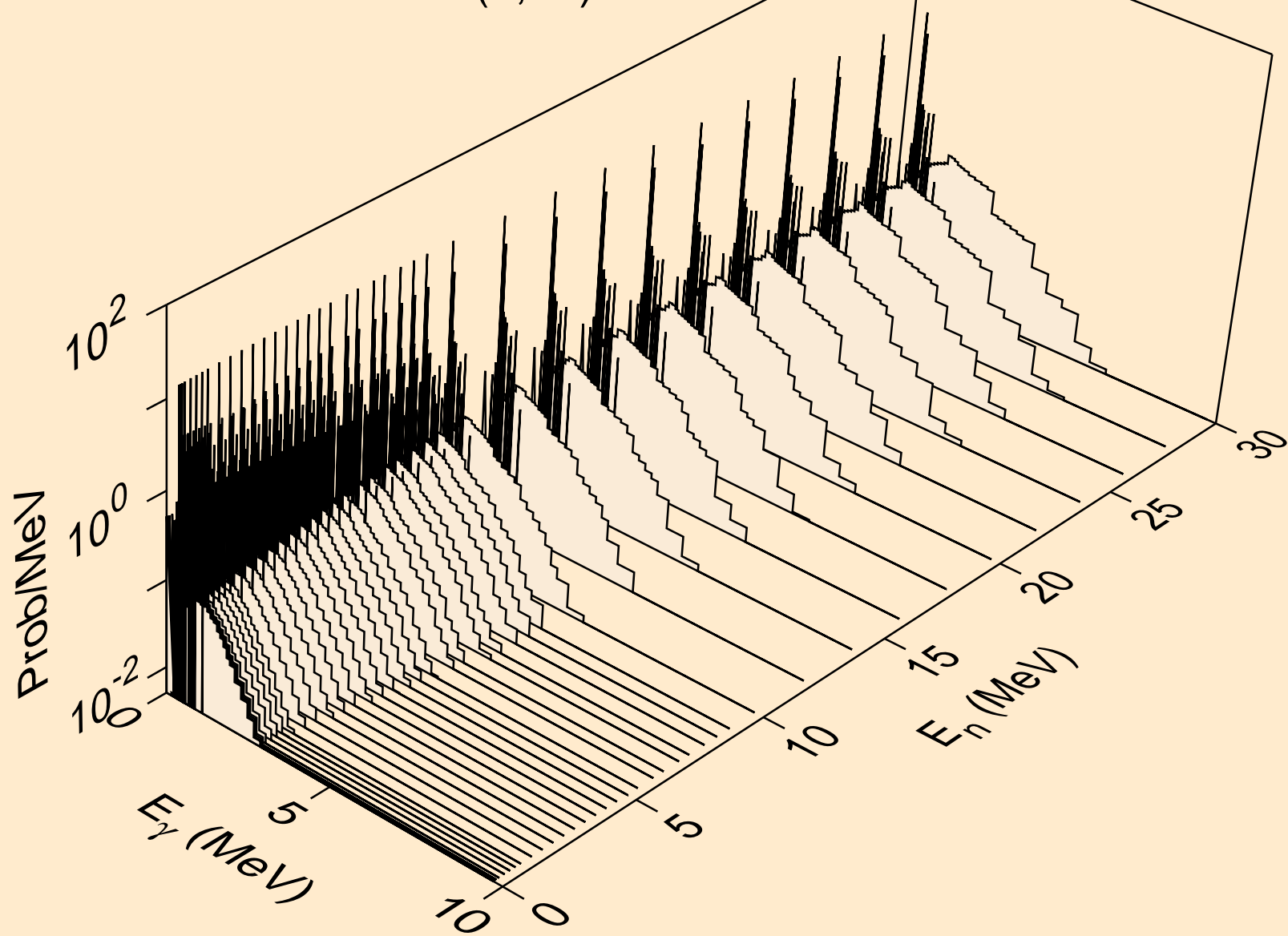
HG179 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,he3)



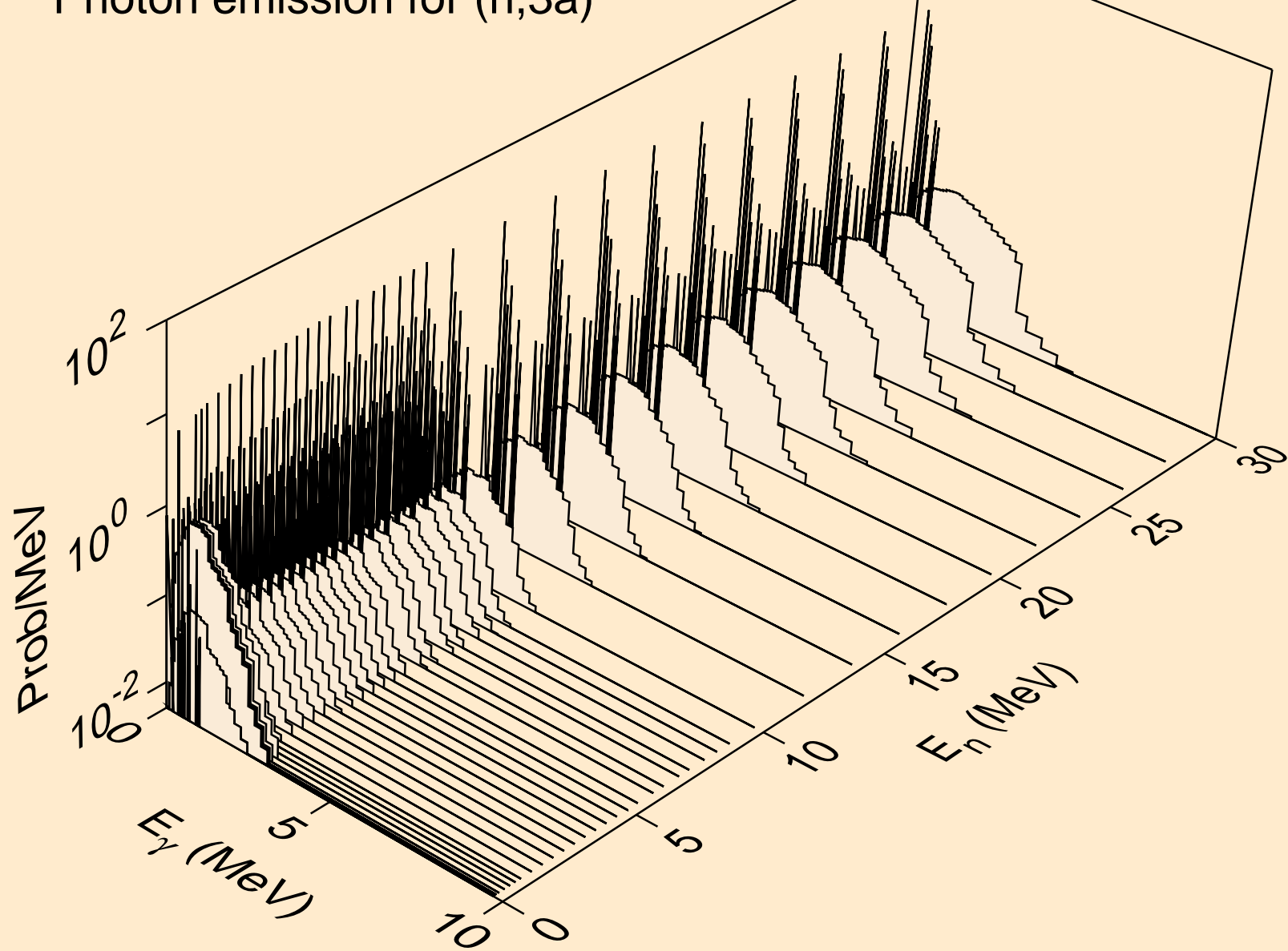
HG179 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,a)



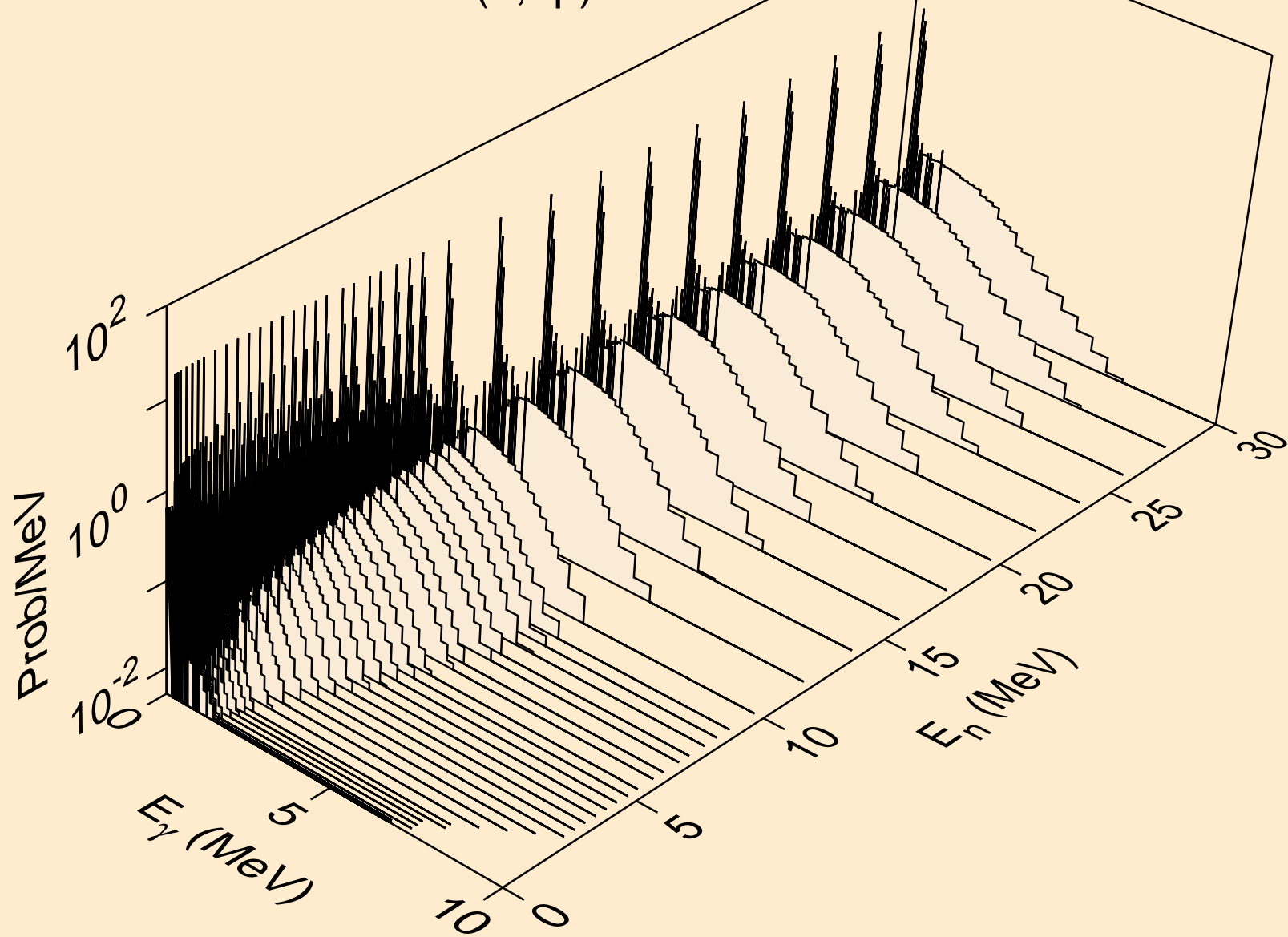
HG179 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,2a)



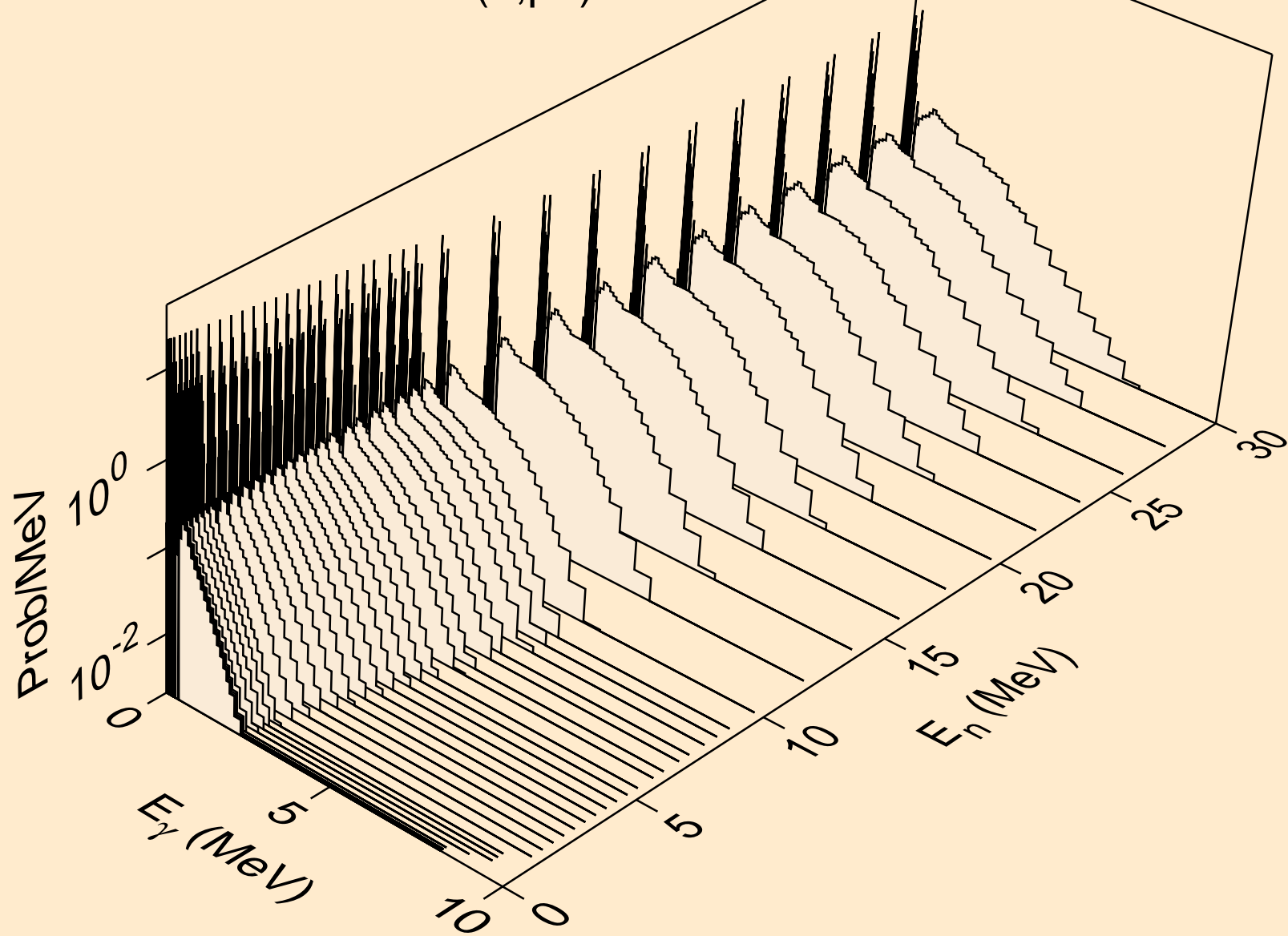
HG179 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,3a)



HG179 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,2p)

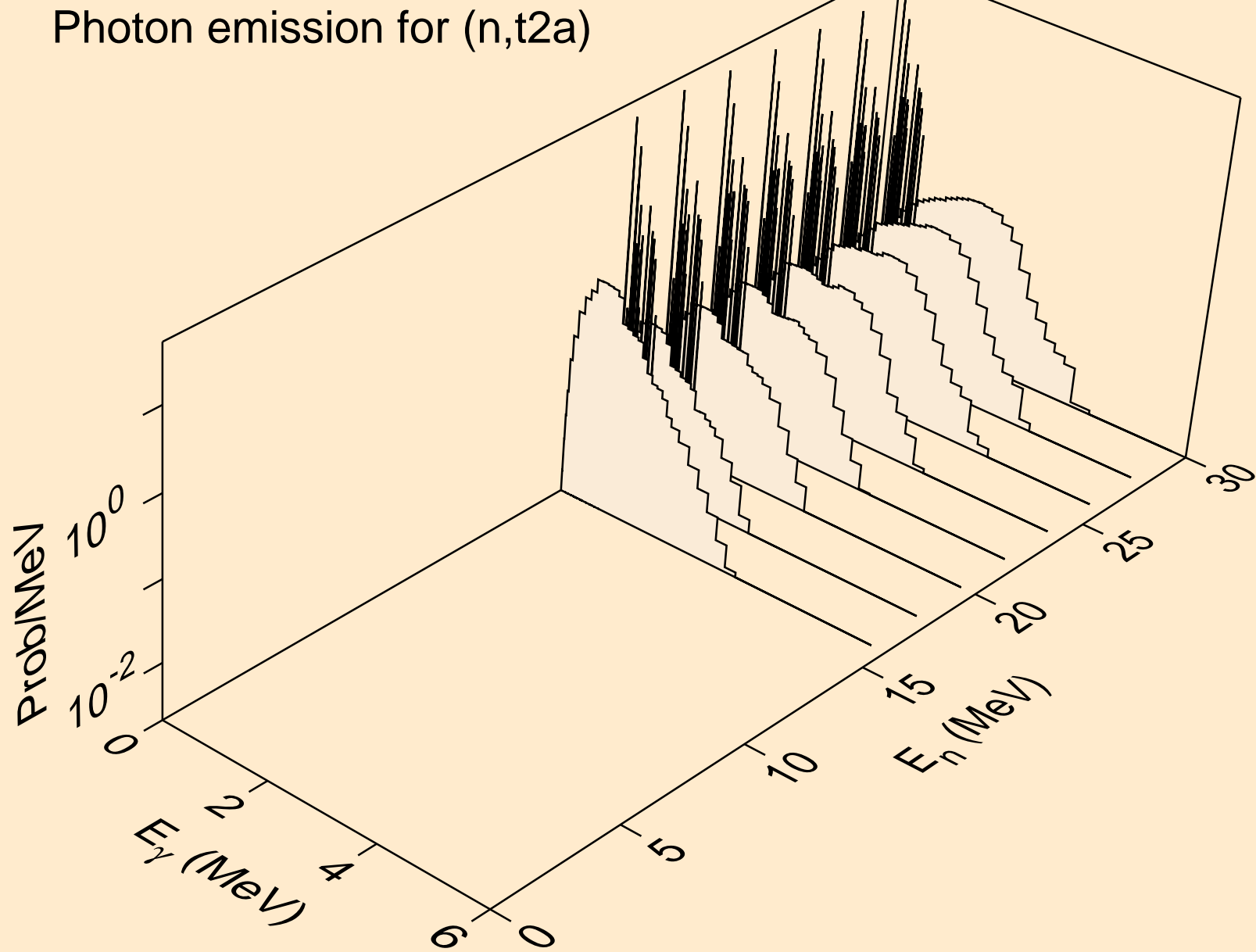


HG179 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,p $\alpha$ )

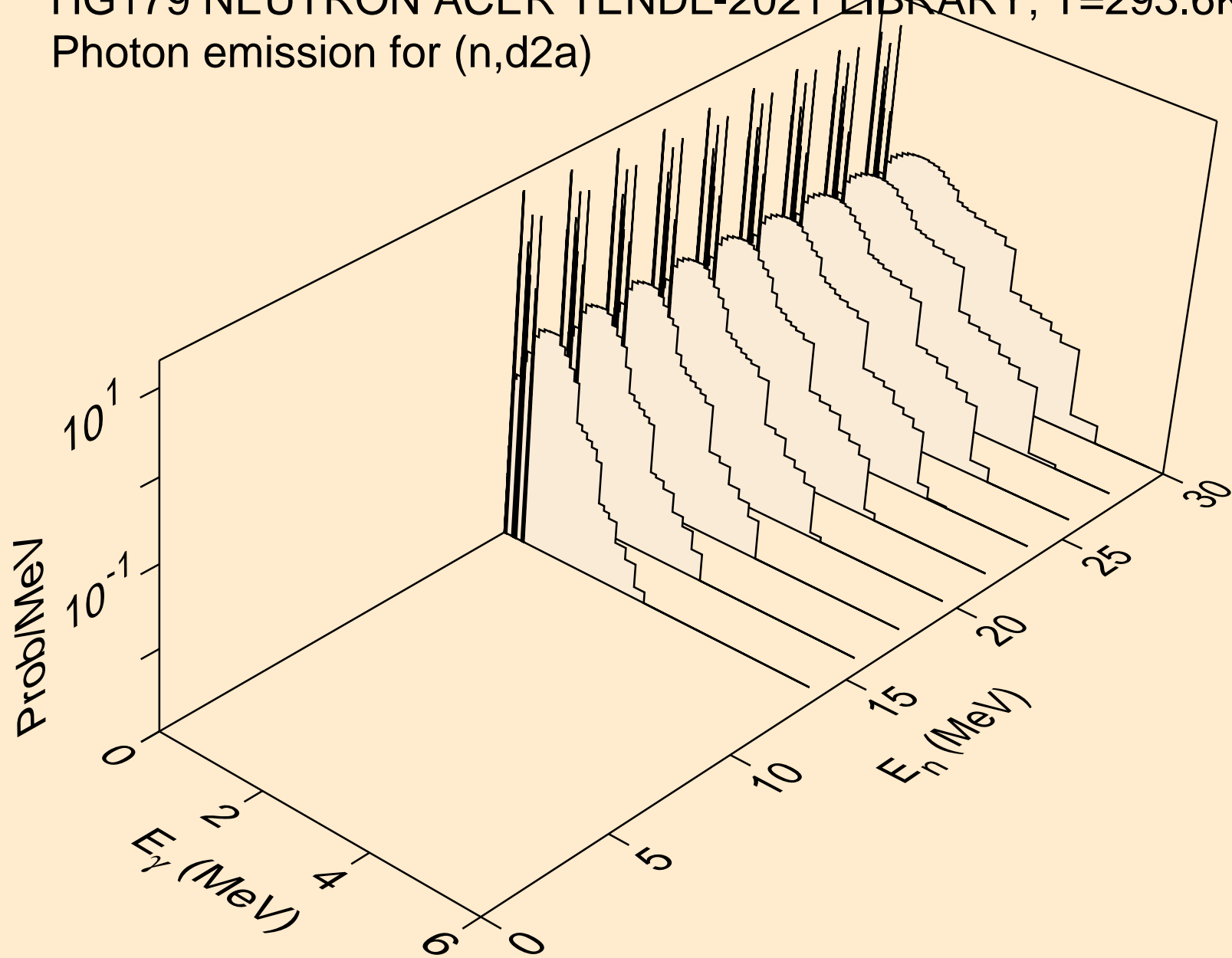




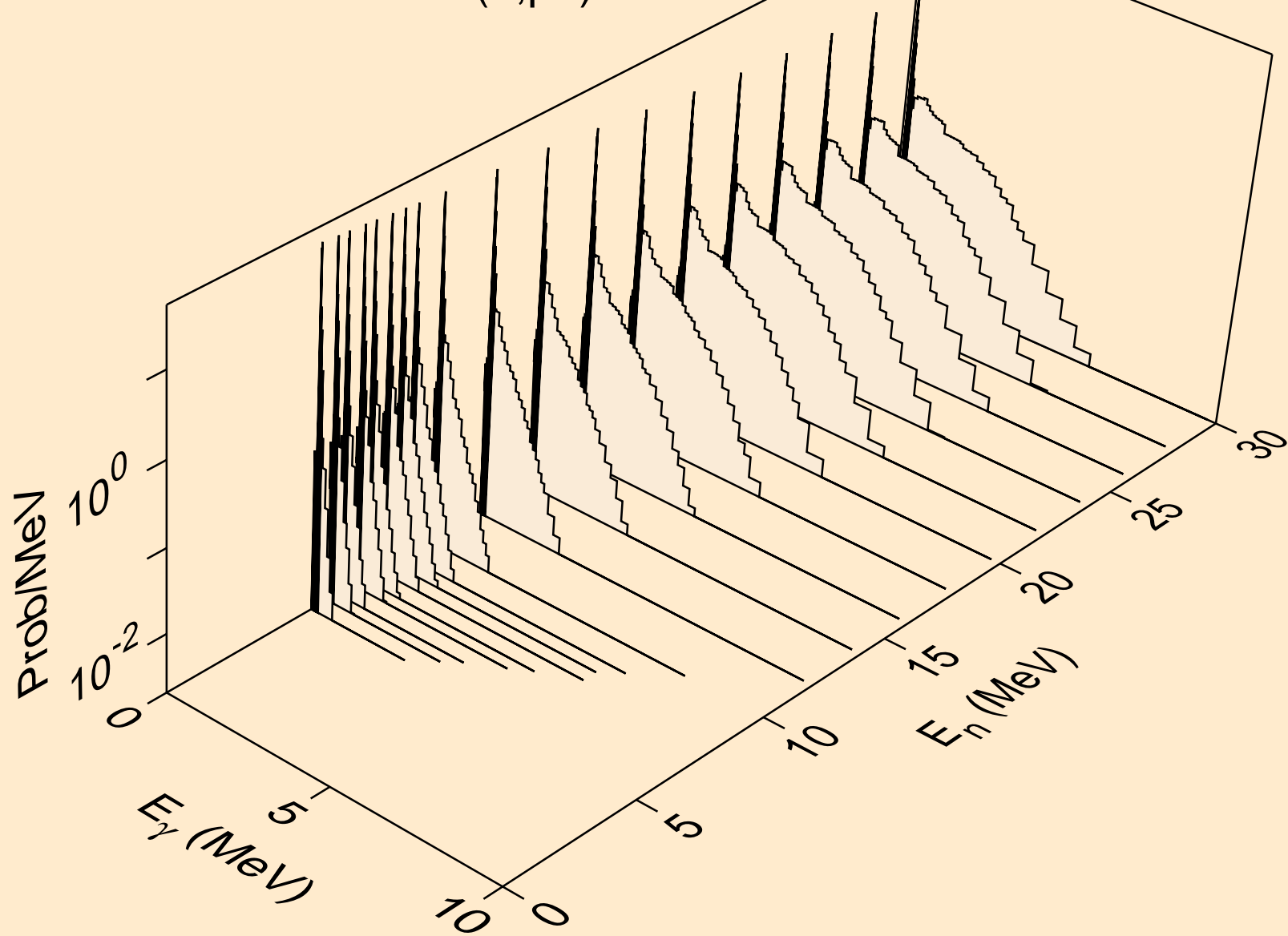
HG179 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,t2a)



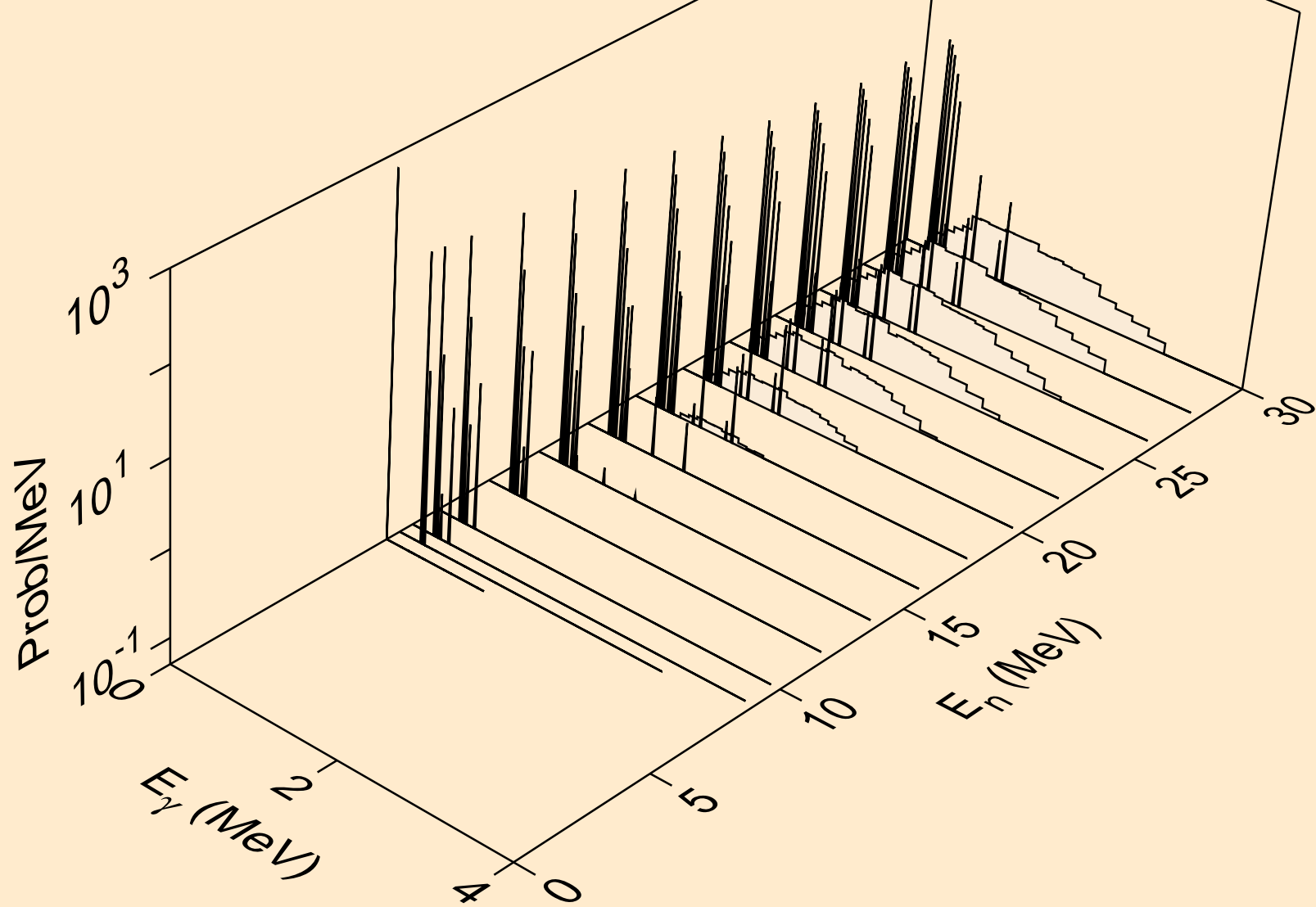
HG179 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,d2a)



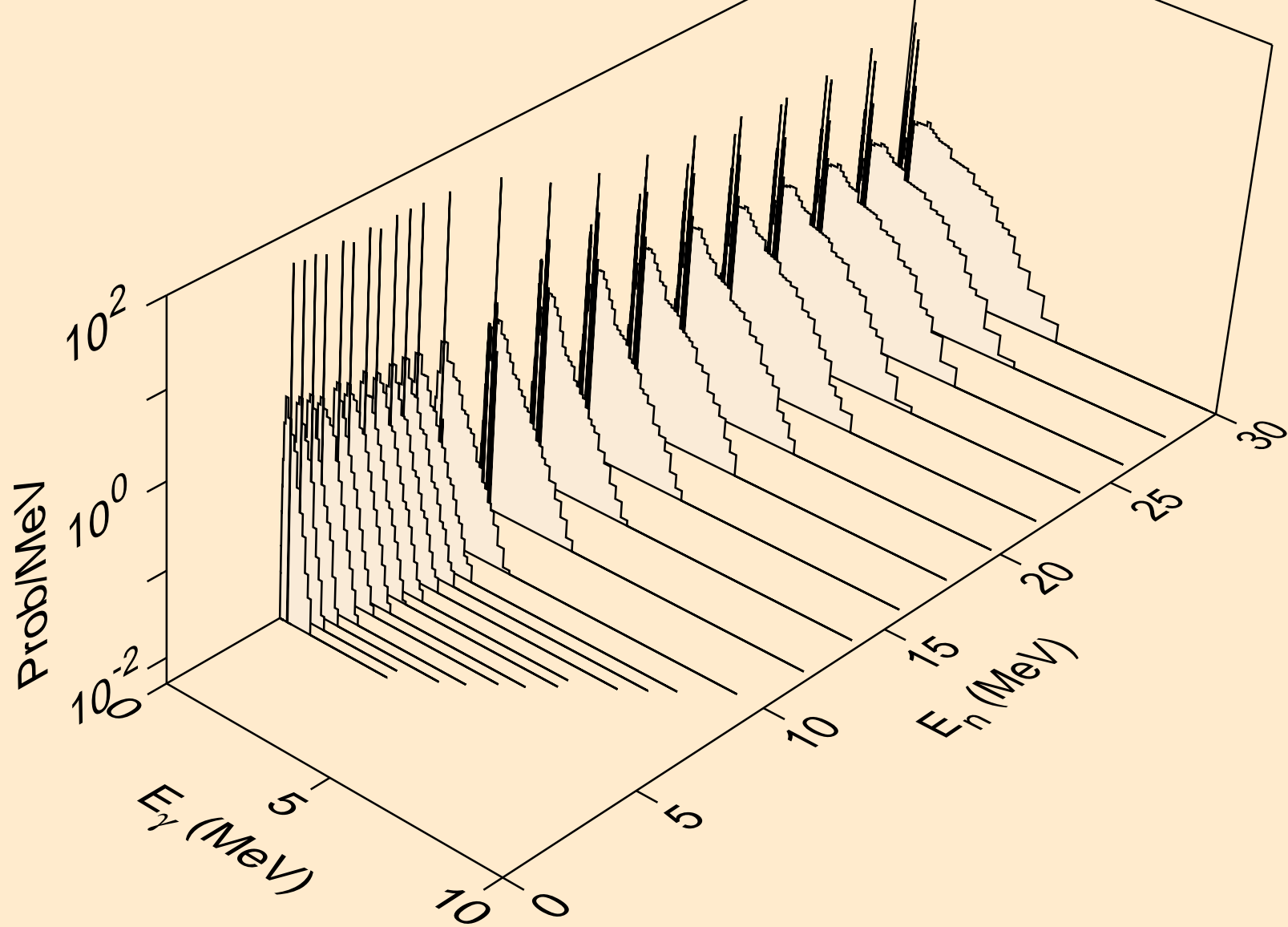
HG179 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,pd)



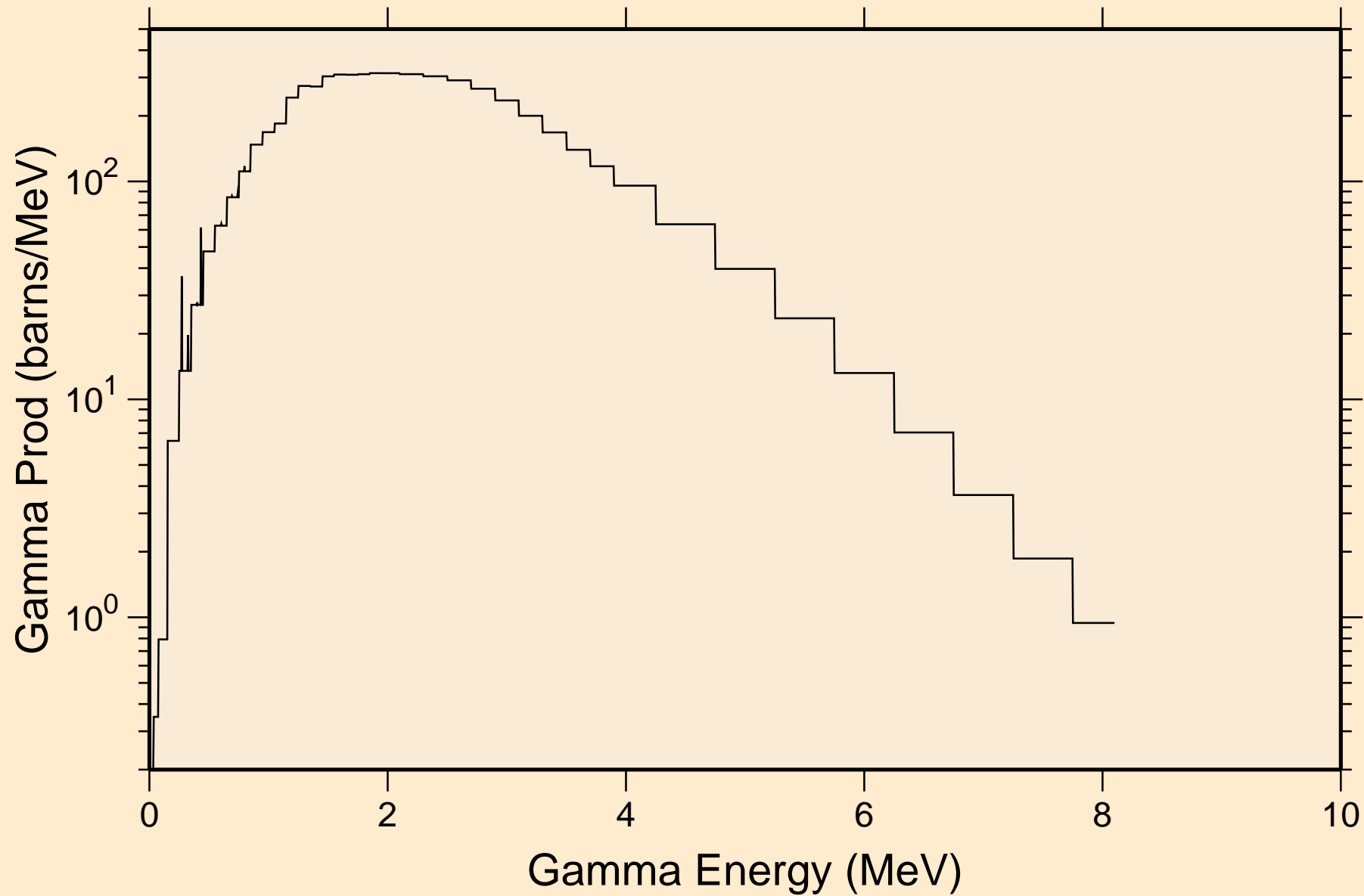
HG179 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,pt)



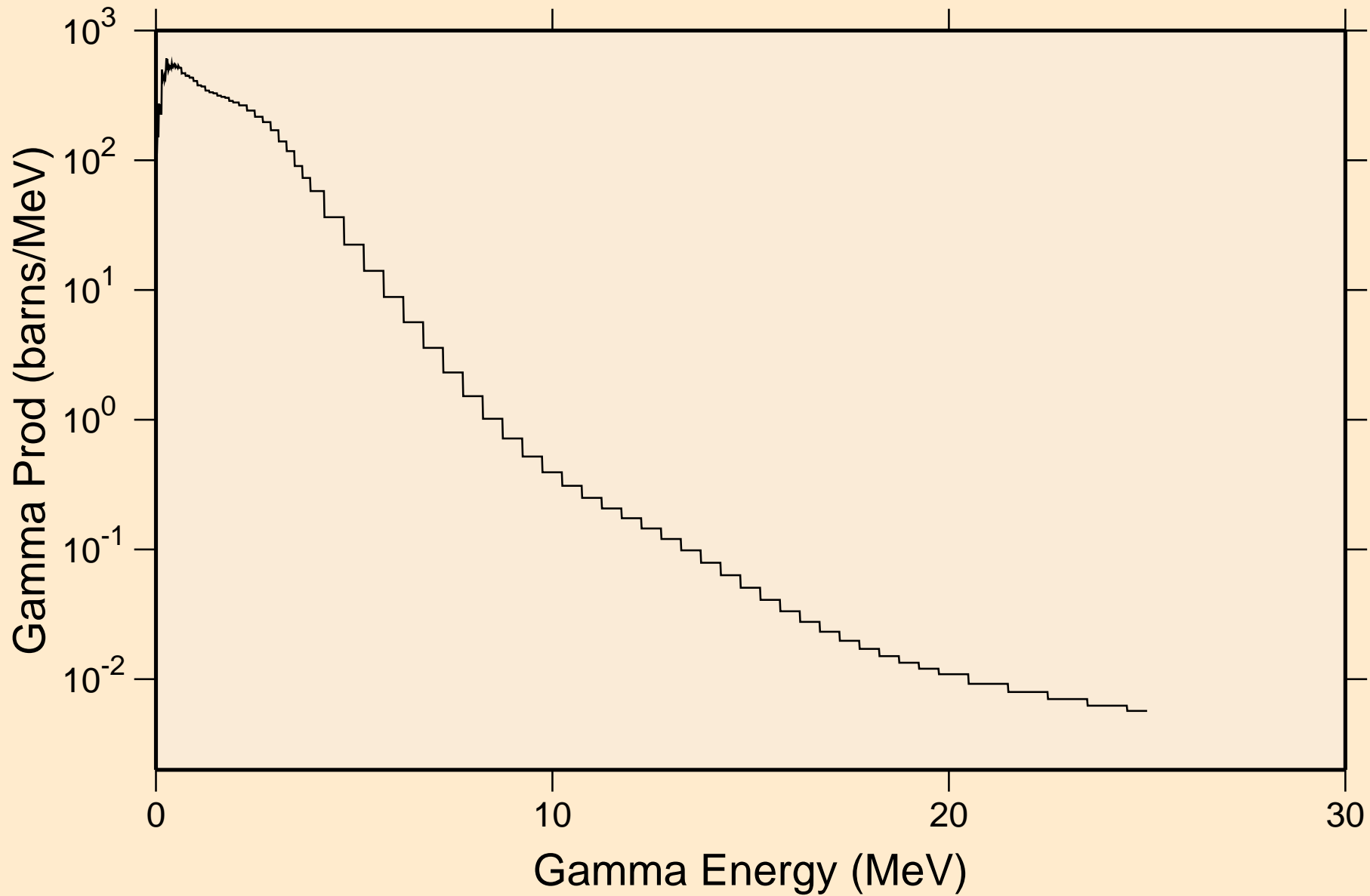
HG179 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,da)



HG179 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
thermal capture photon spectrum

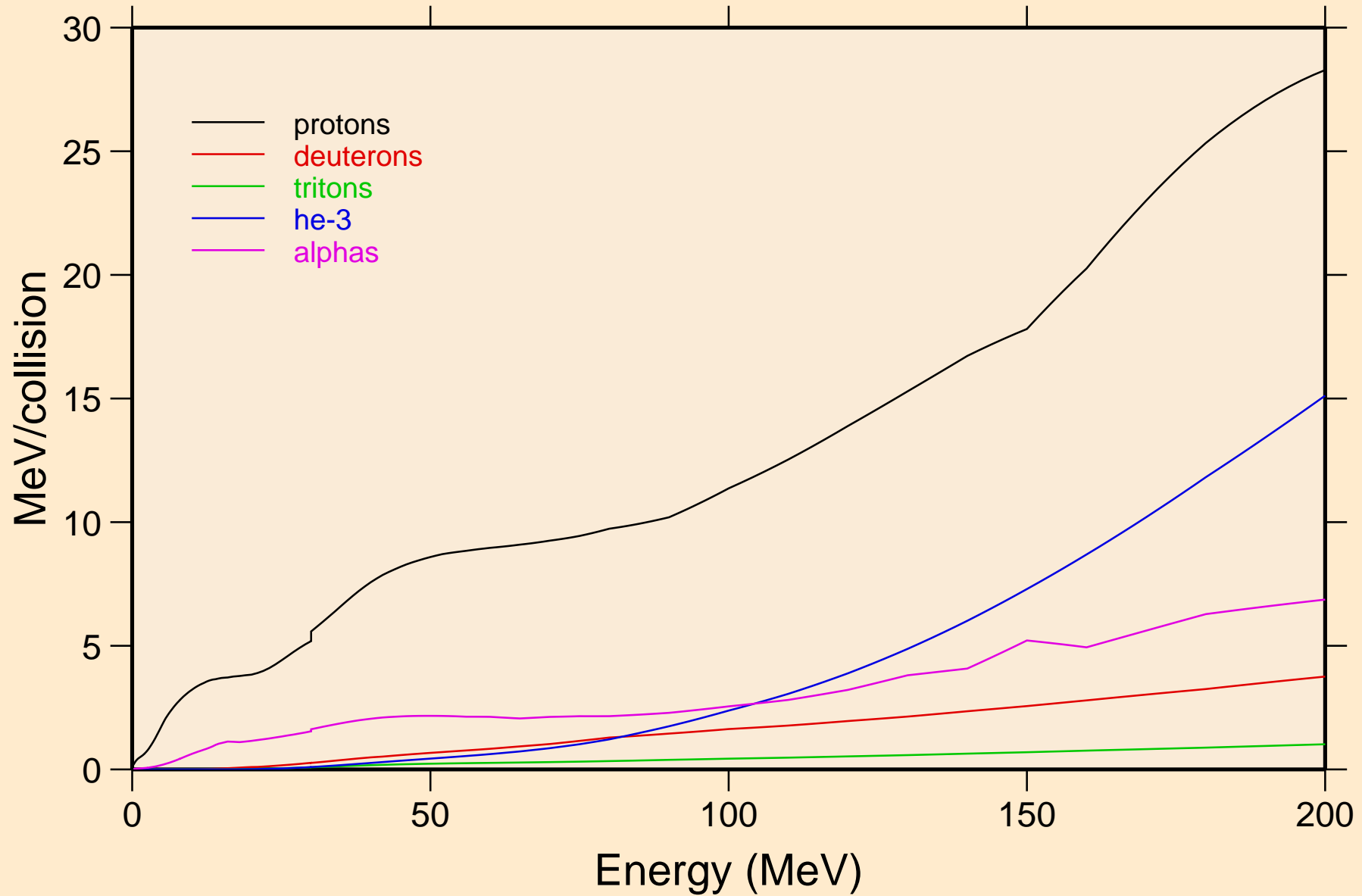


HG179 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
14 MeV photon spectrum



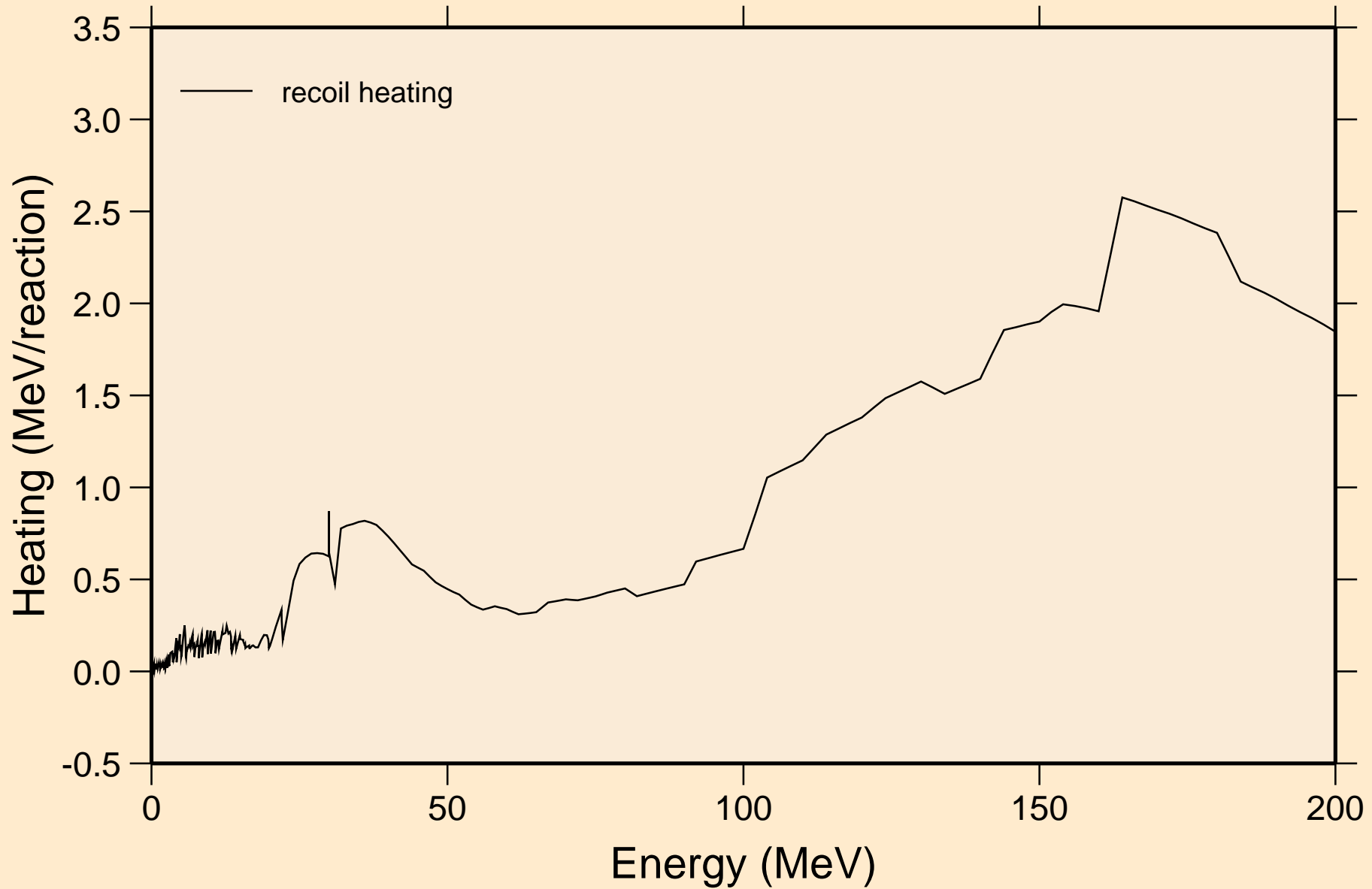
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## Particle heating contributions



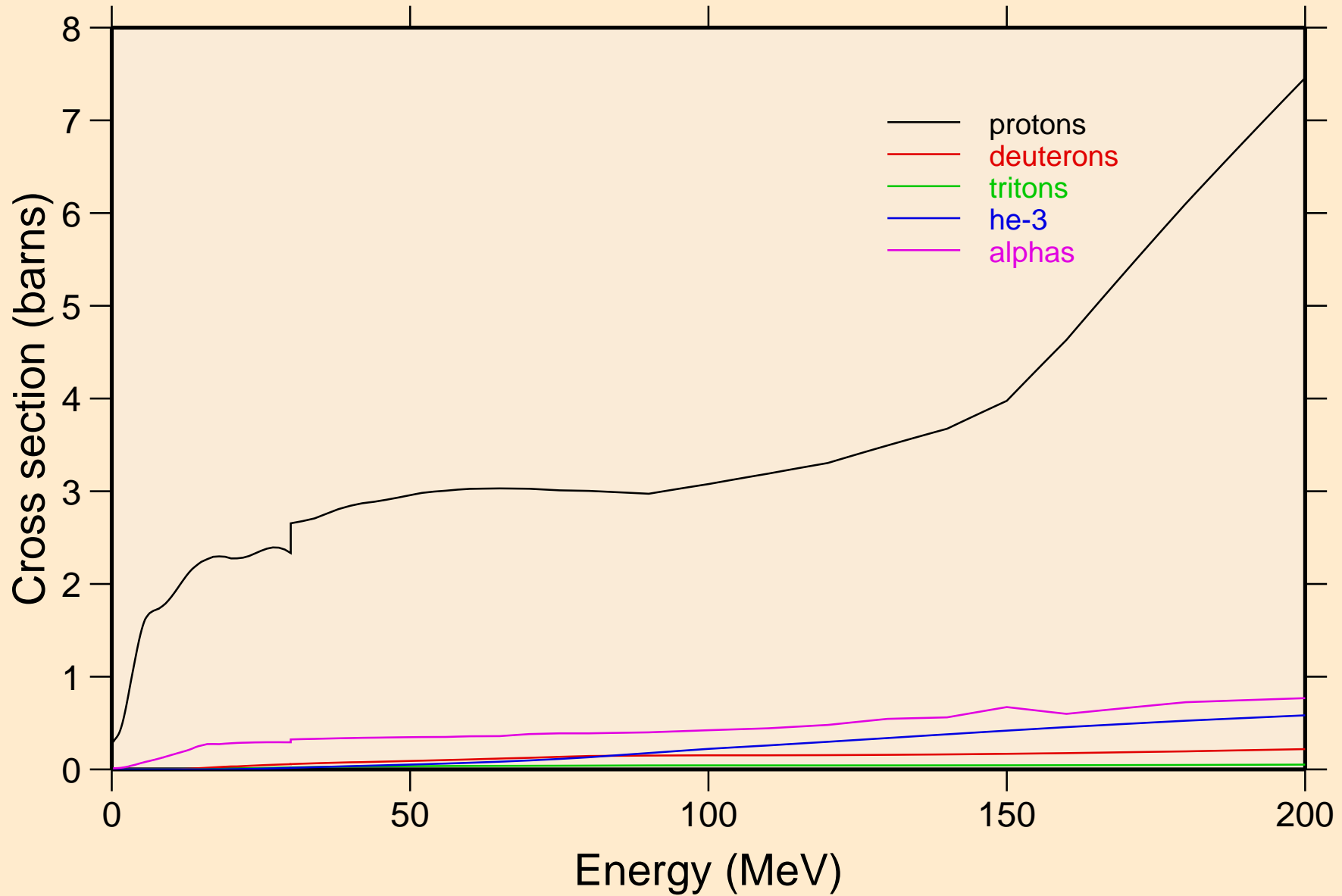


HG179 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Recoil Heating

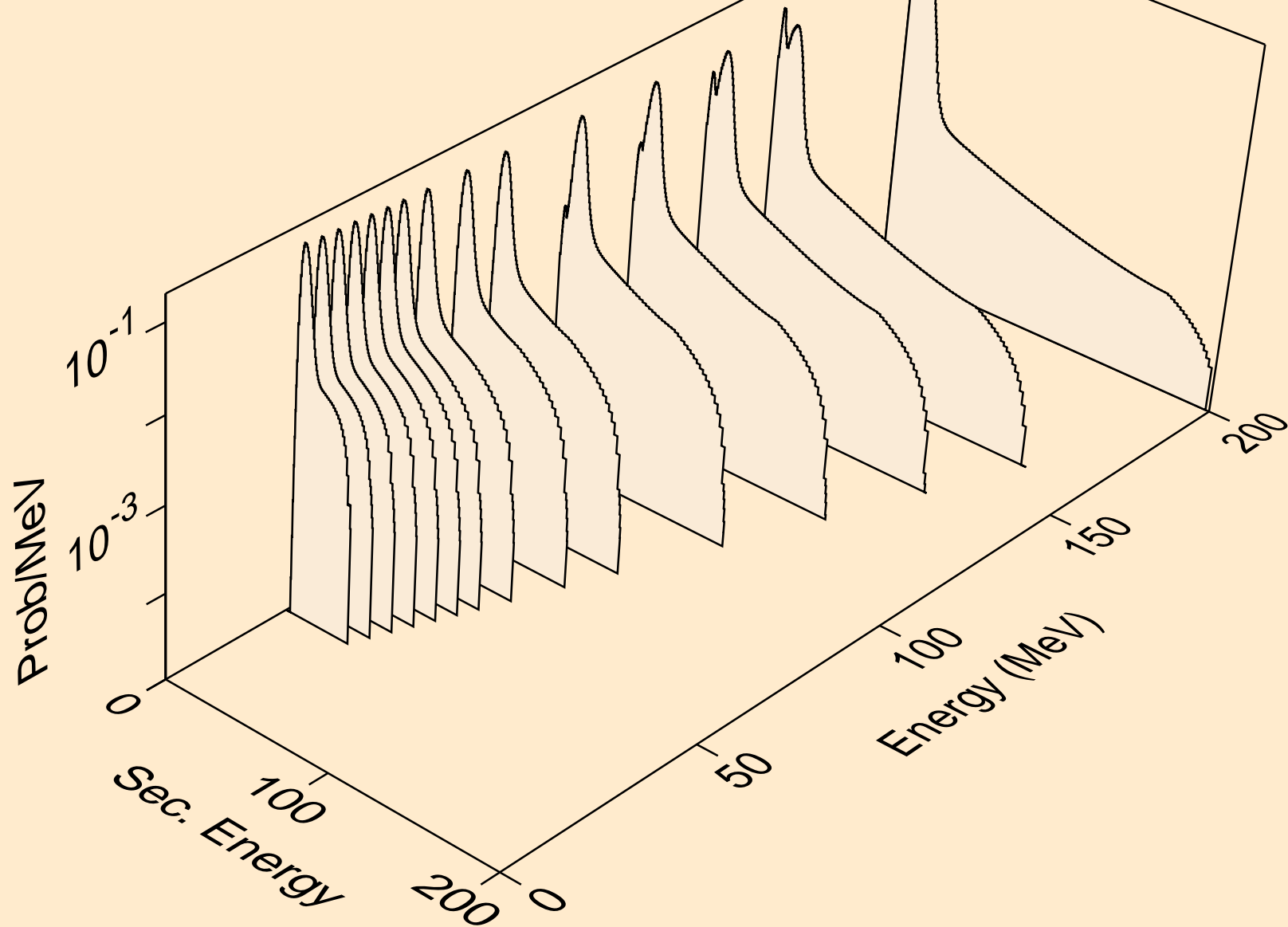


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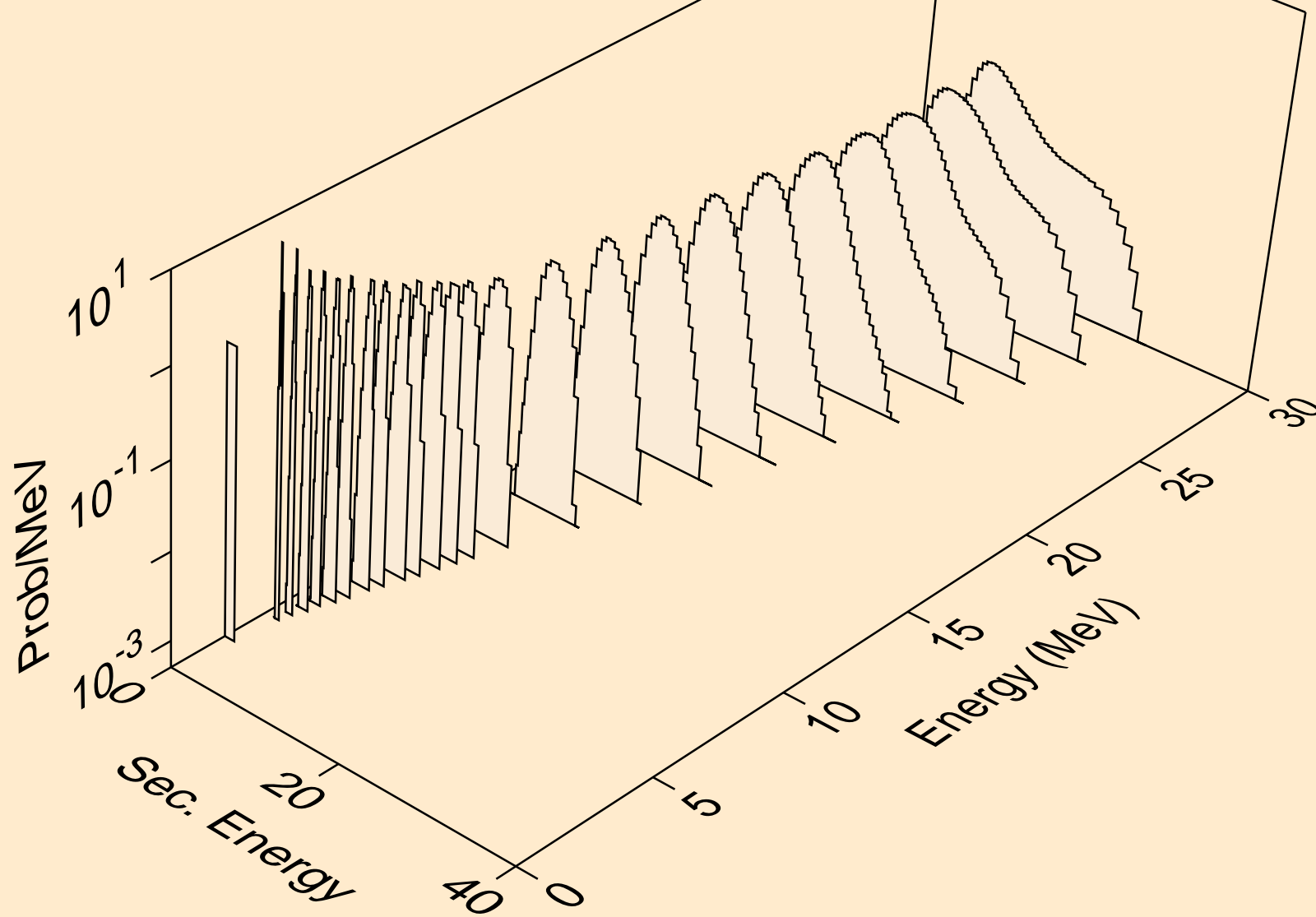
## Particle production cross sections



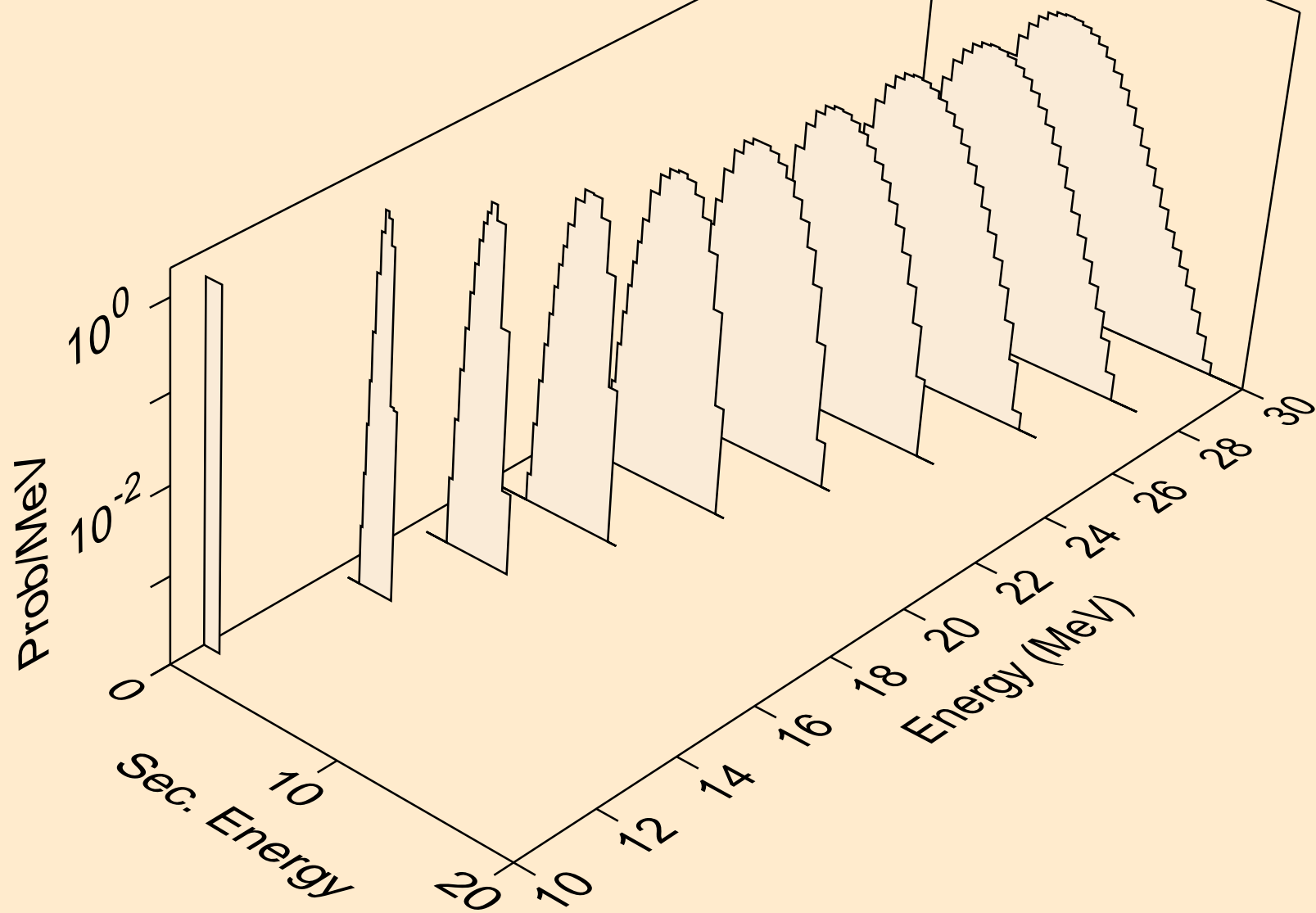
HG179 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
protons from (n,x)



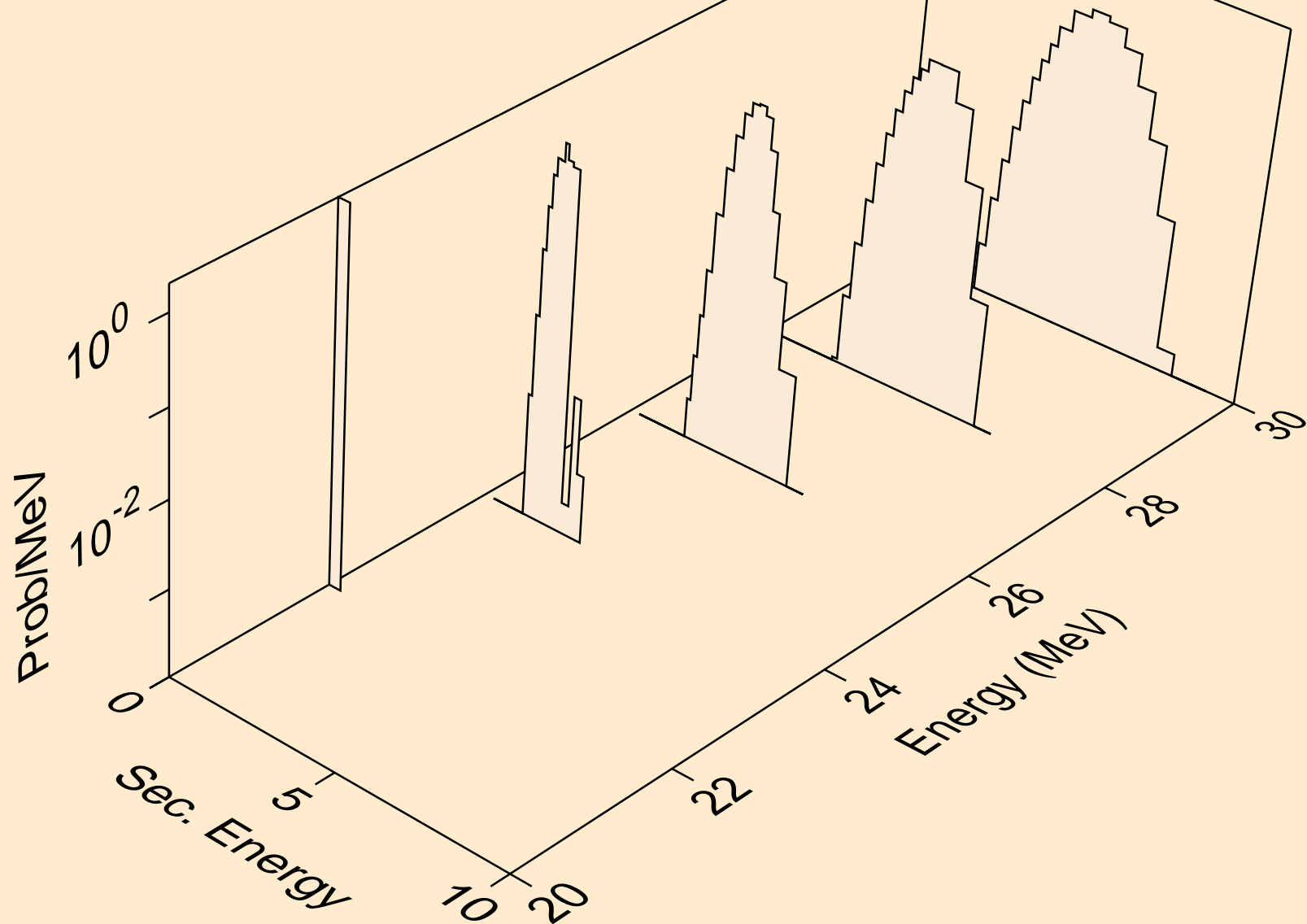
HG179 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
protons from (n,n\*)p



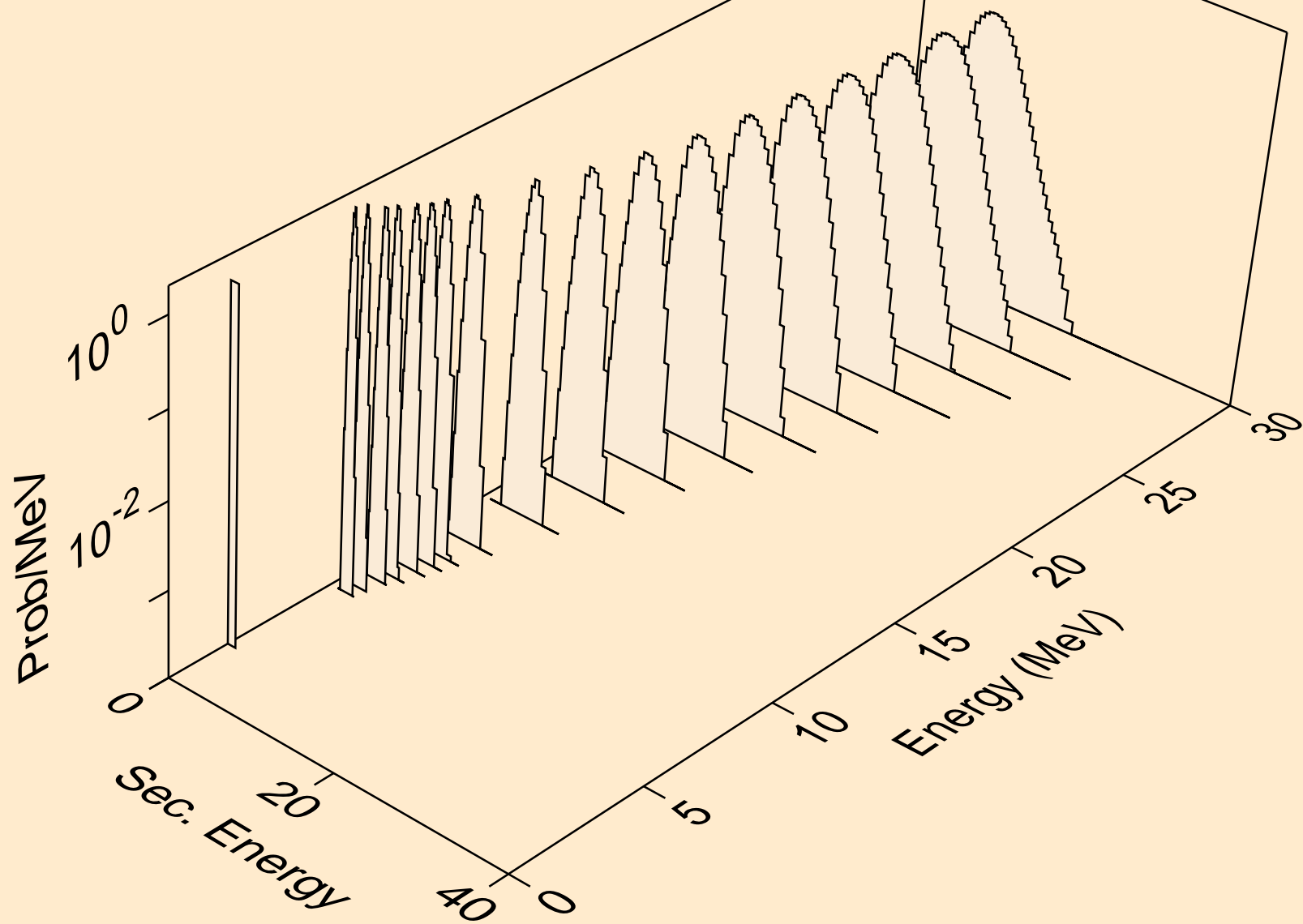
HG179 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
protons from (n,2np)



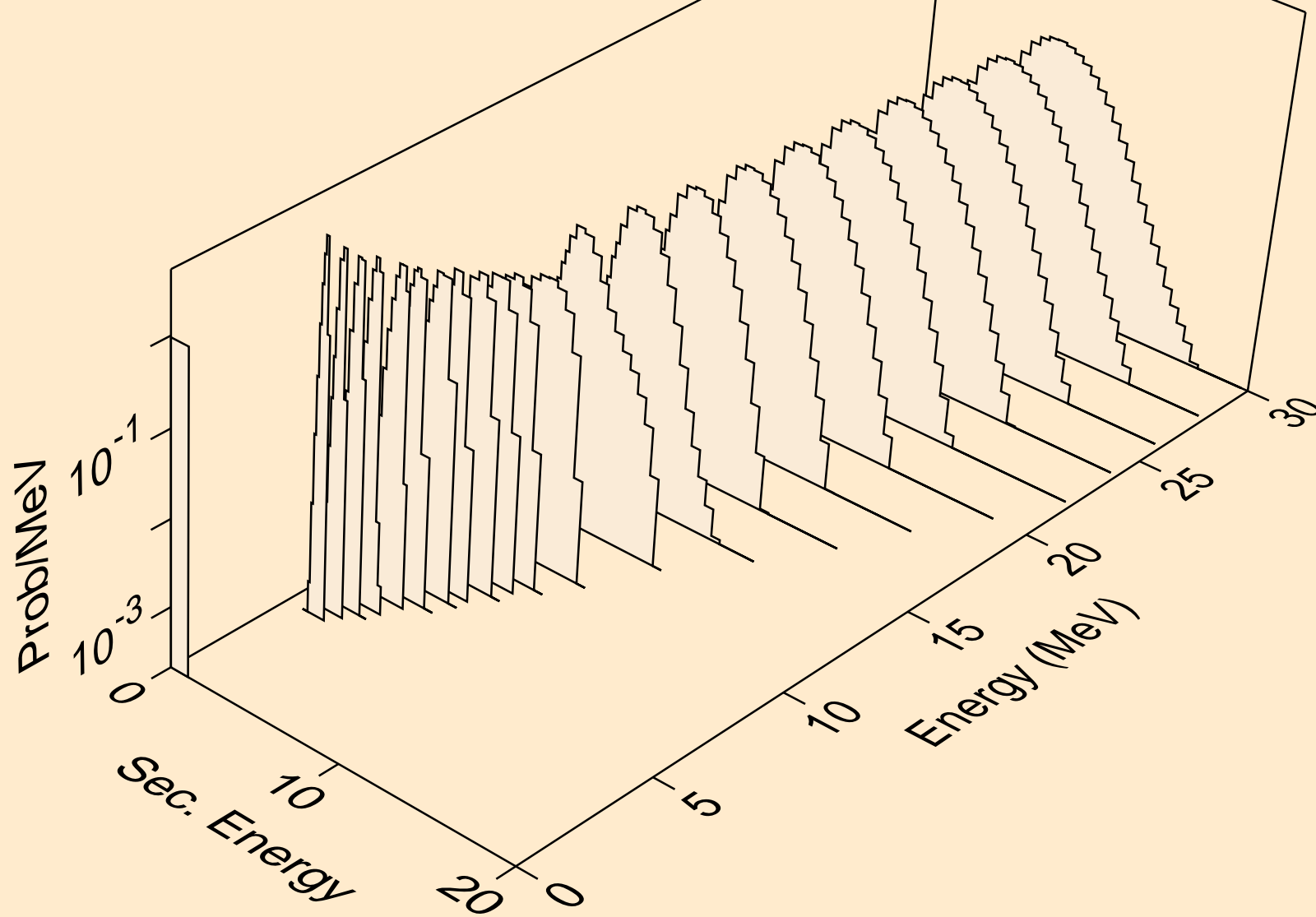
HG179 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
protons from (n,3np)



HG179 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
protons from (n,2np)

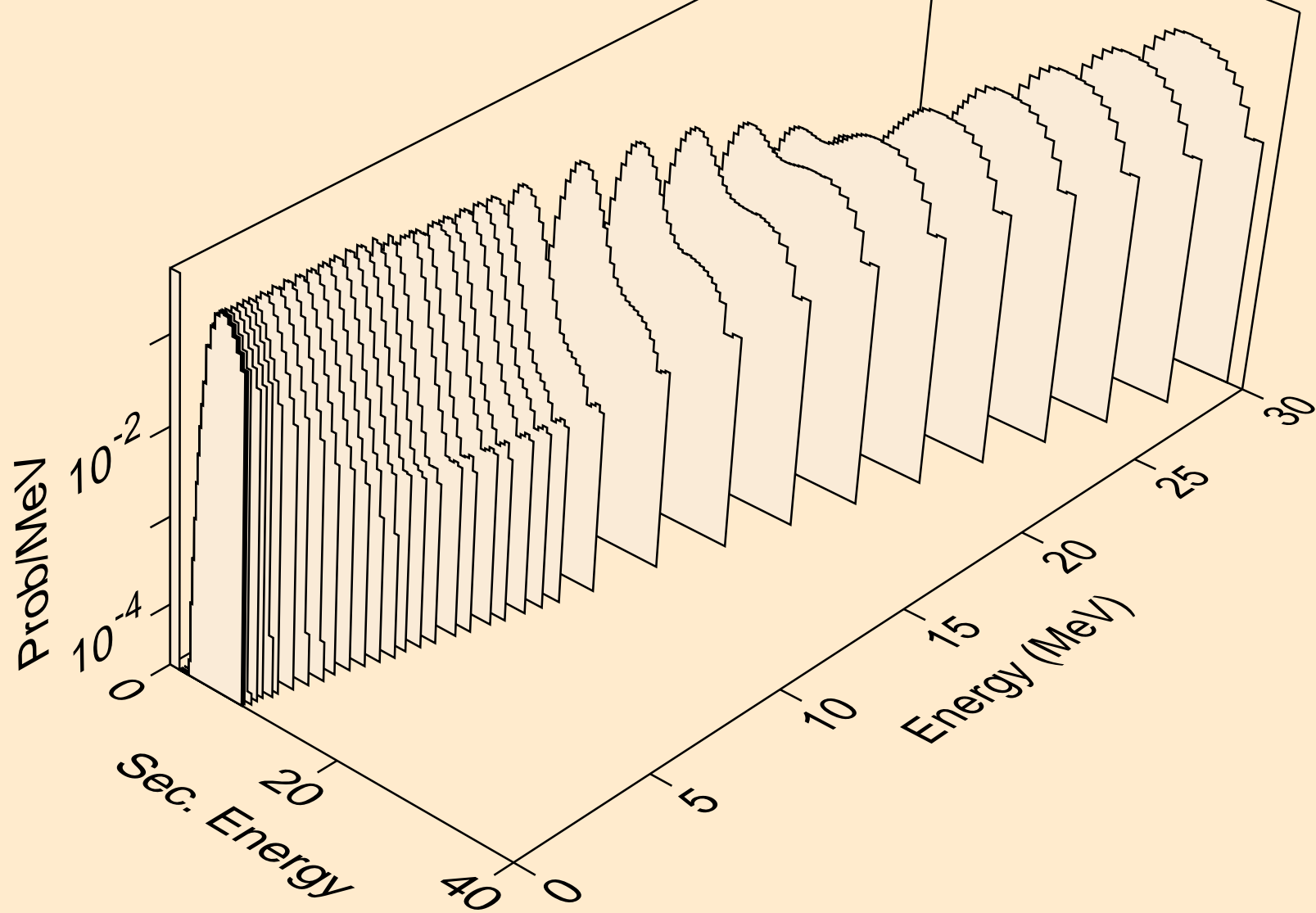


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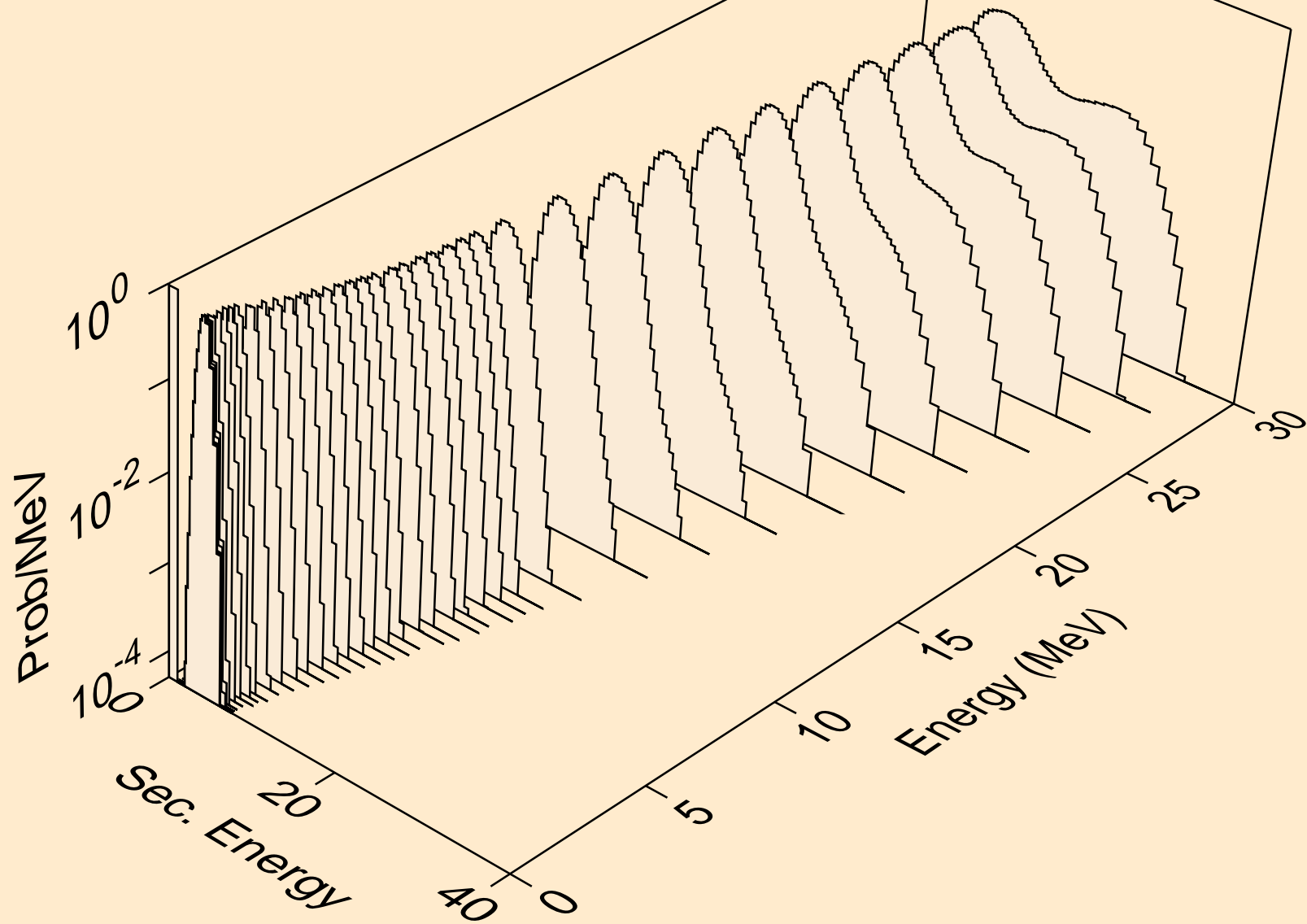




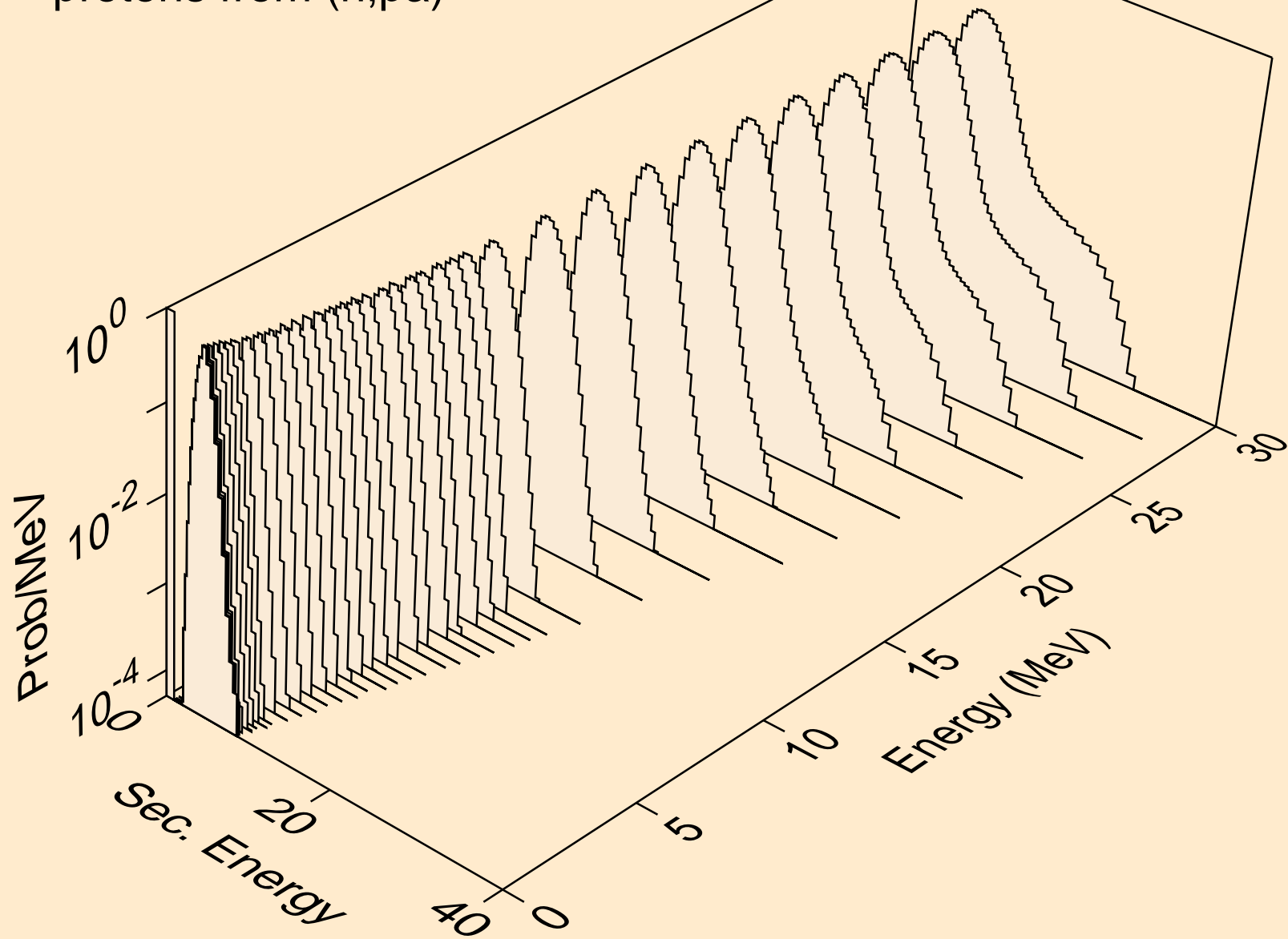
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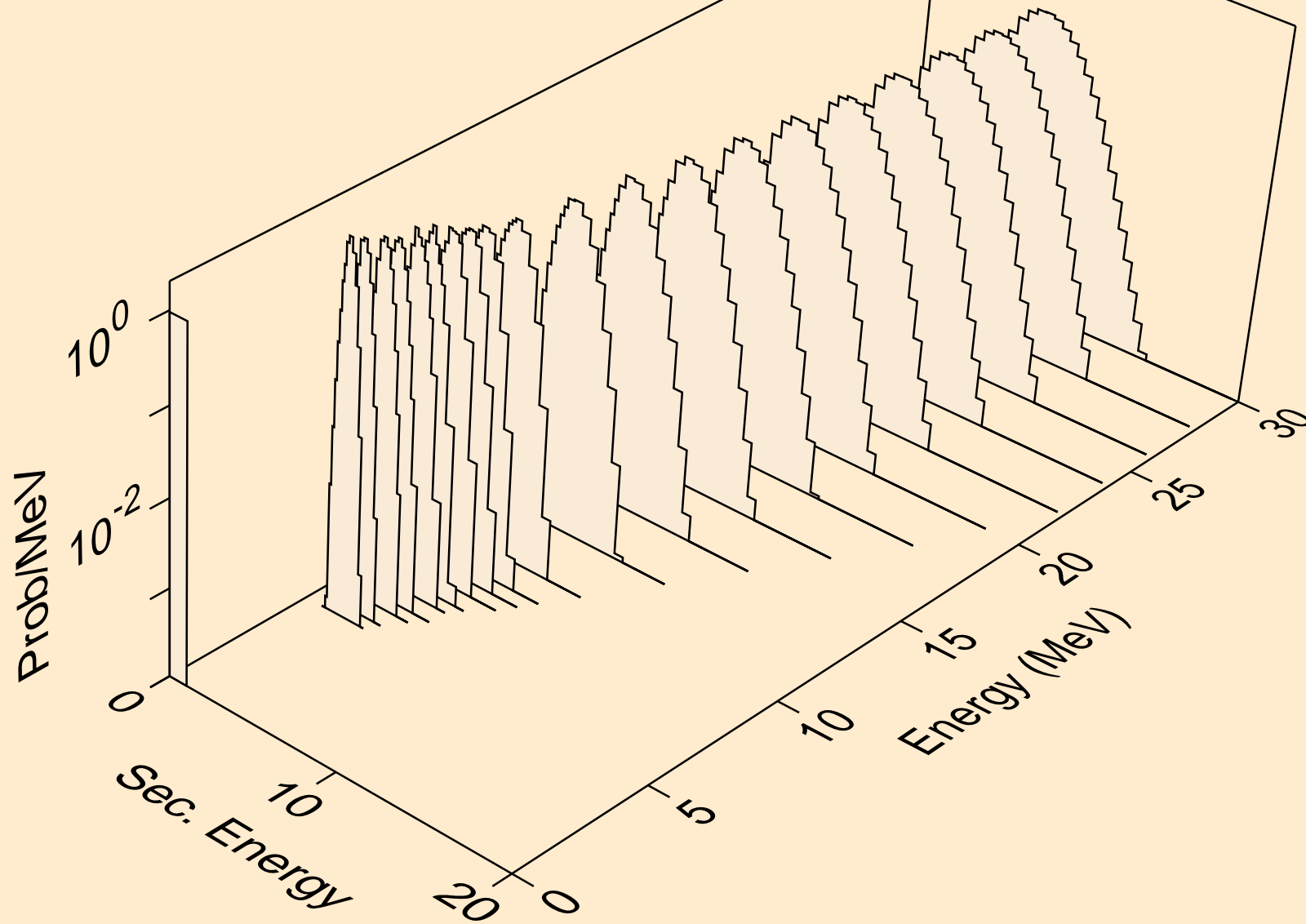
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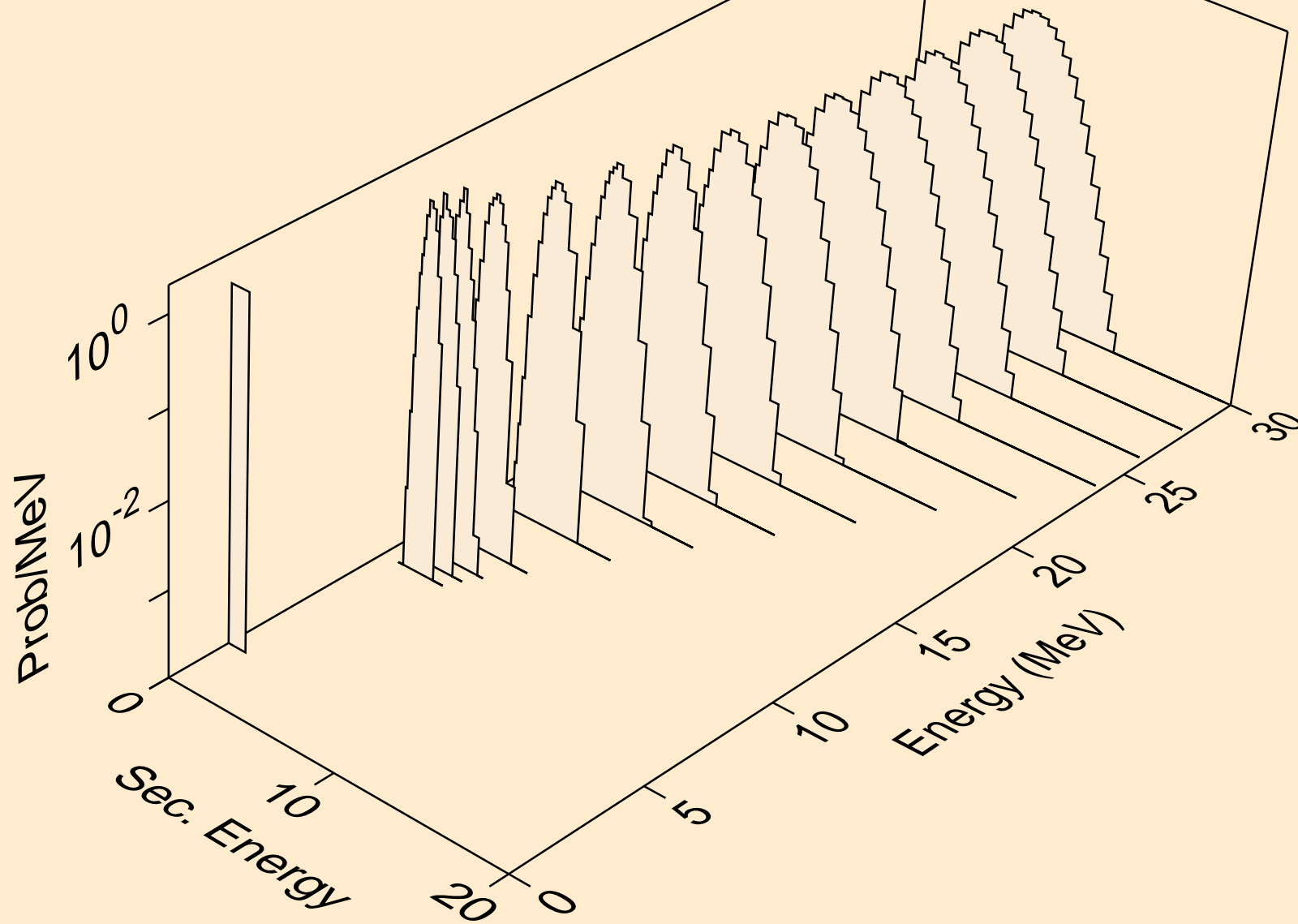
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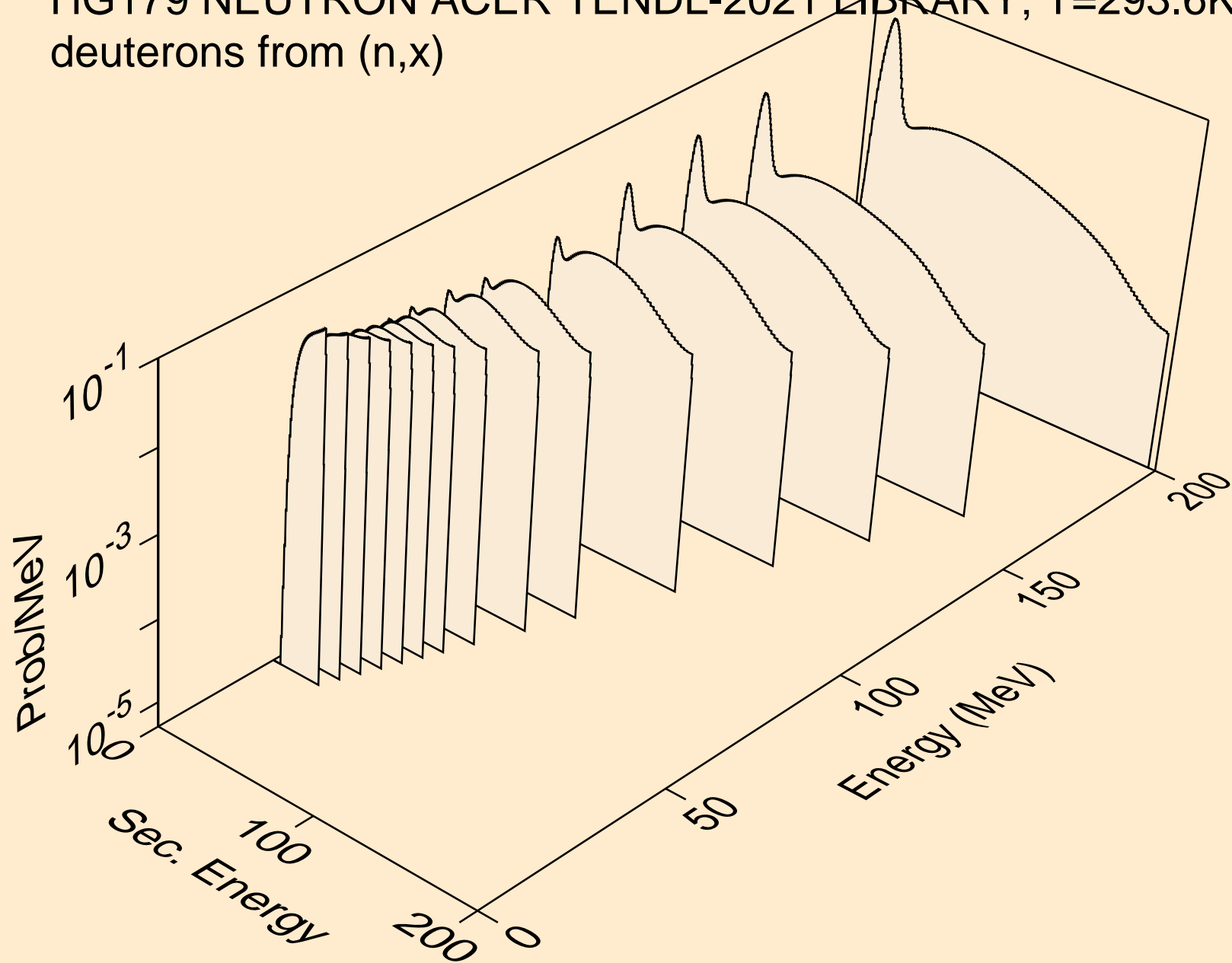
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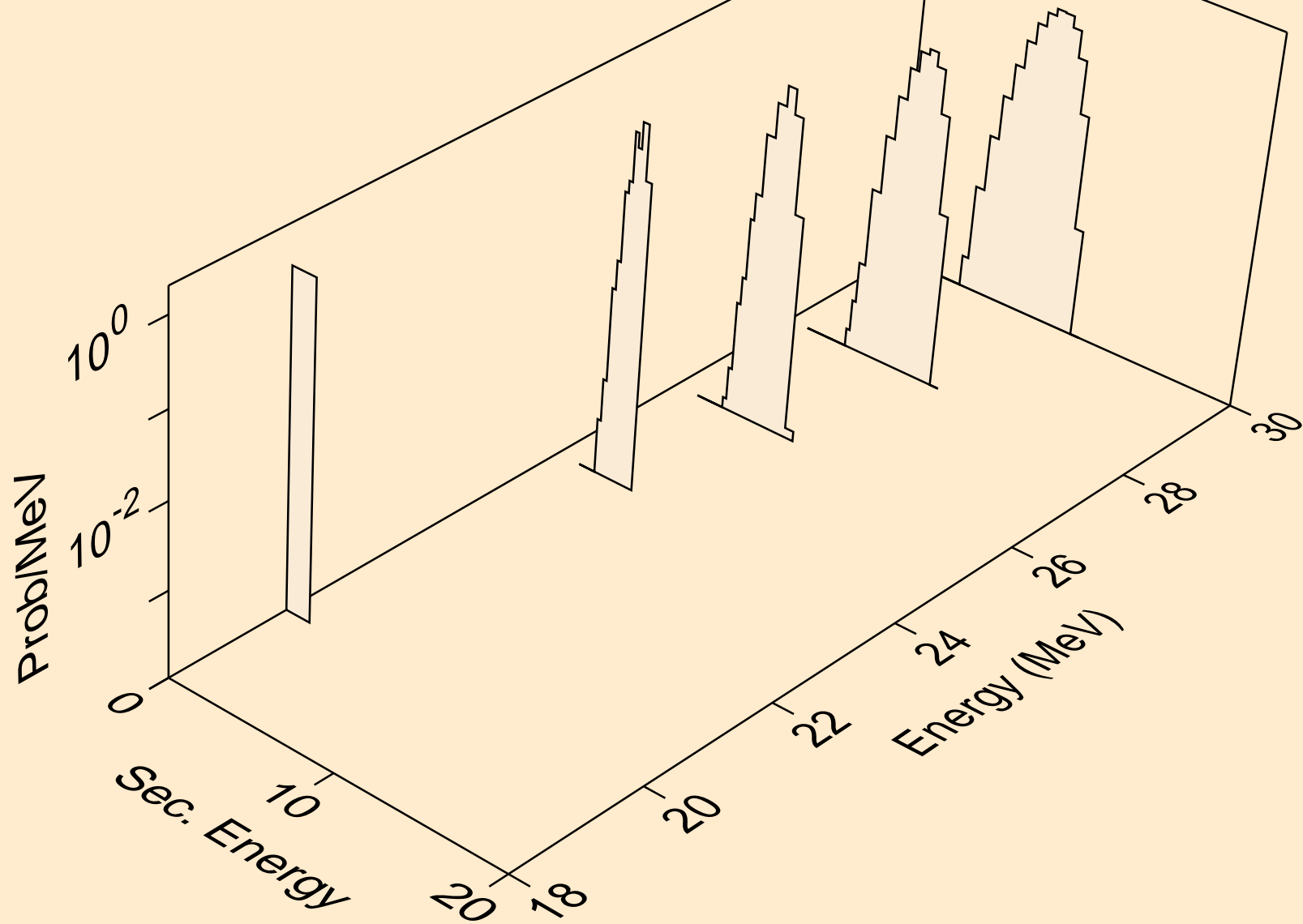
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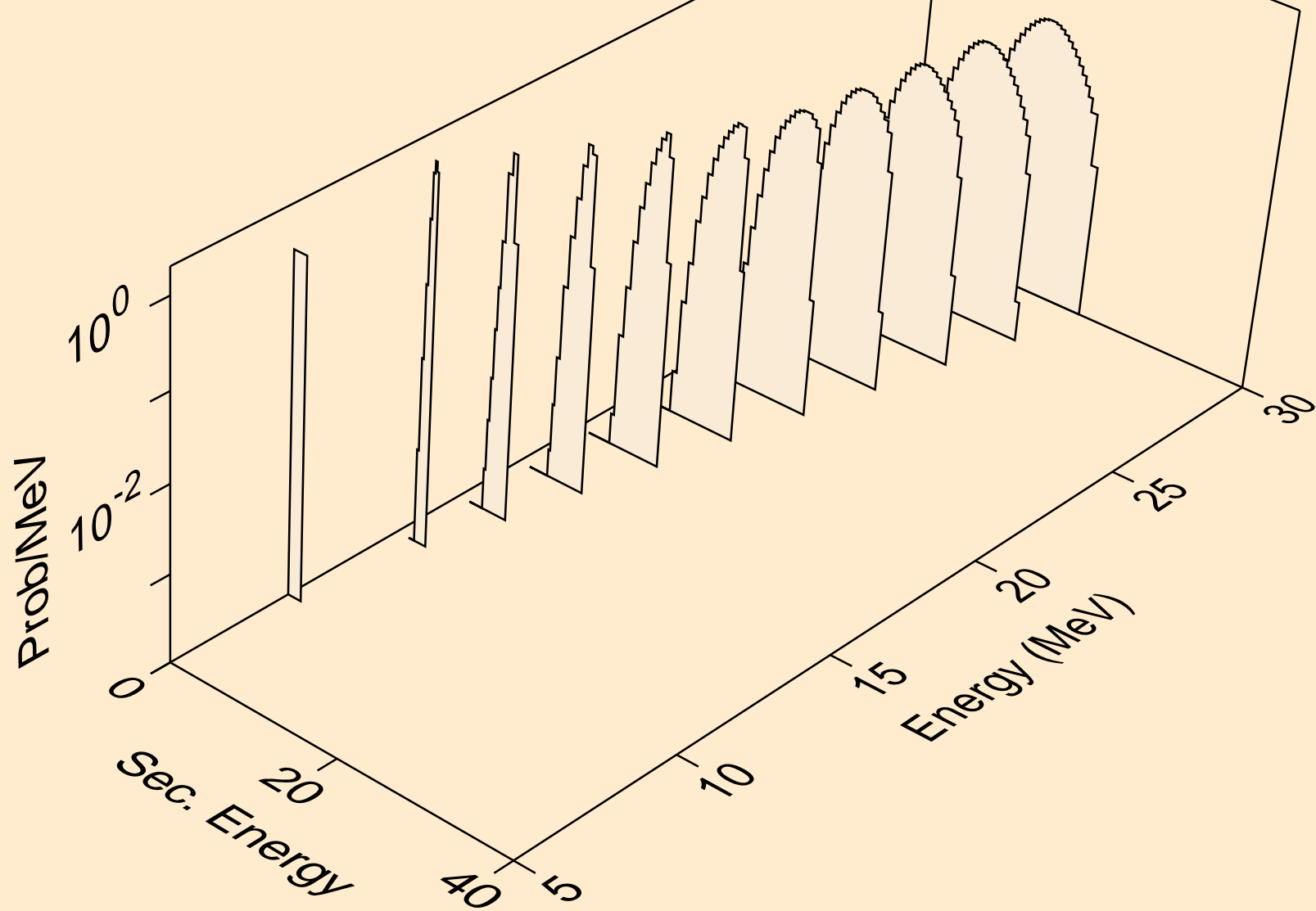
HG179 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
deuterons from (n,x)



HG179 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
deuterons from (n,2nd)

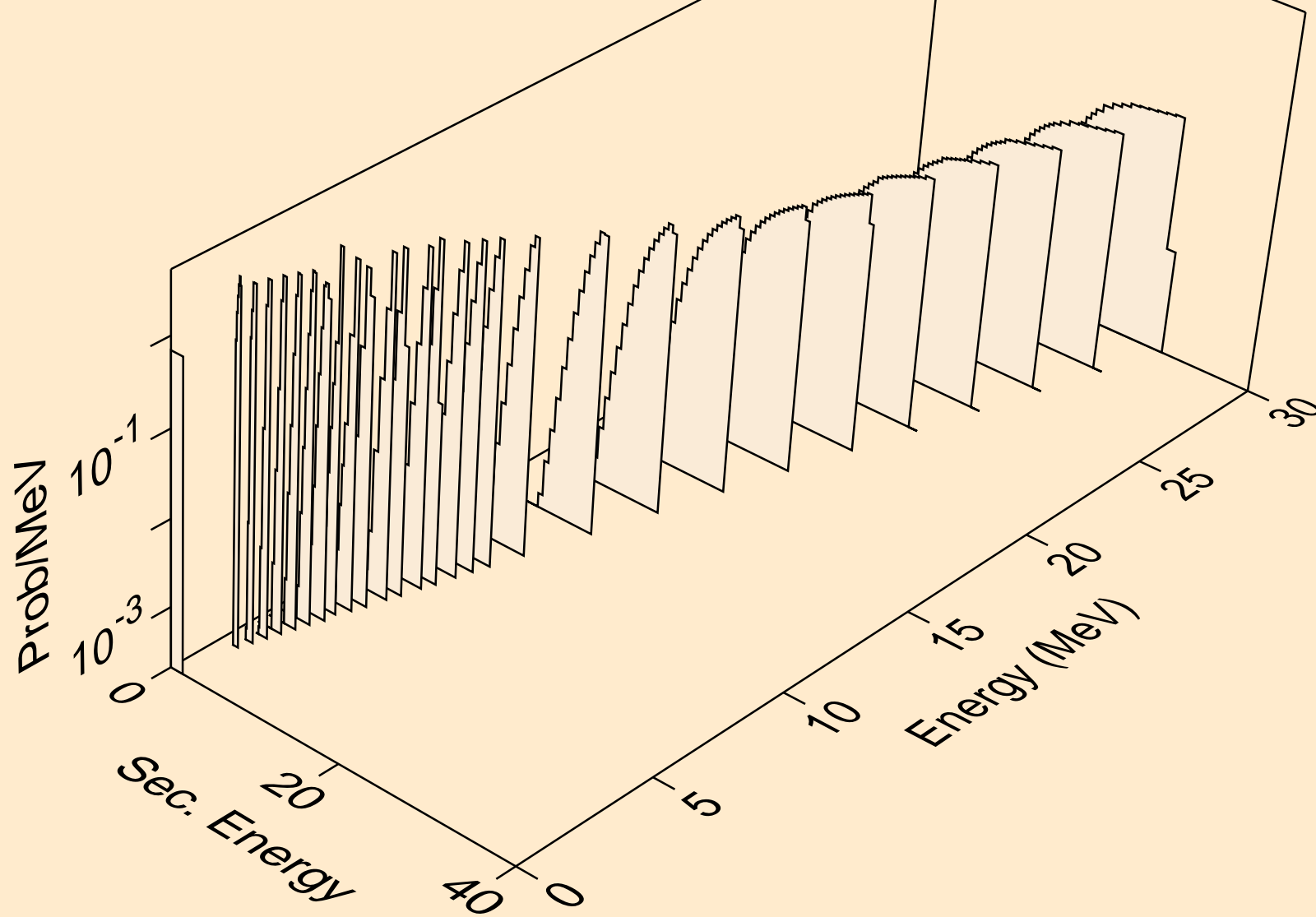


HG179 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
deuterons from (n,n\*)d

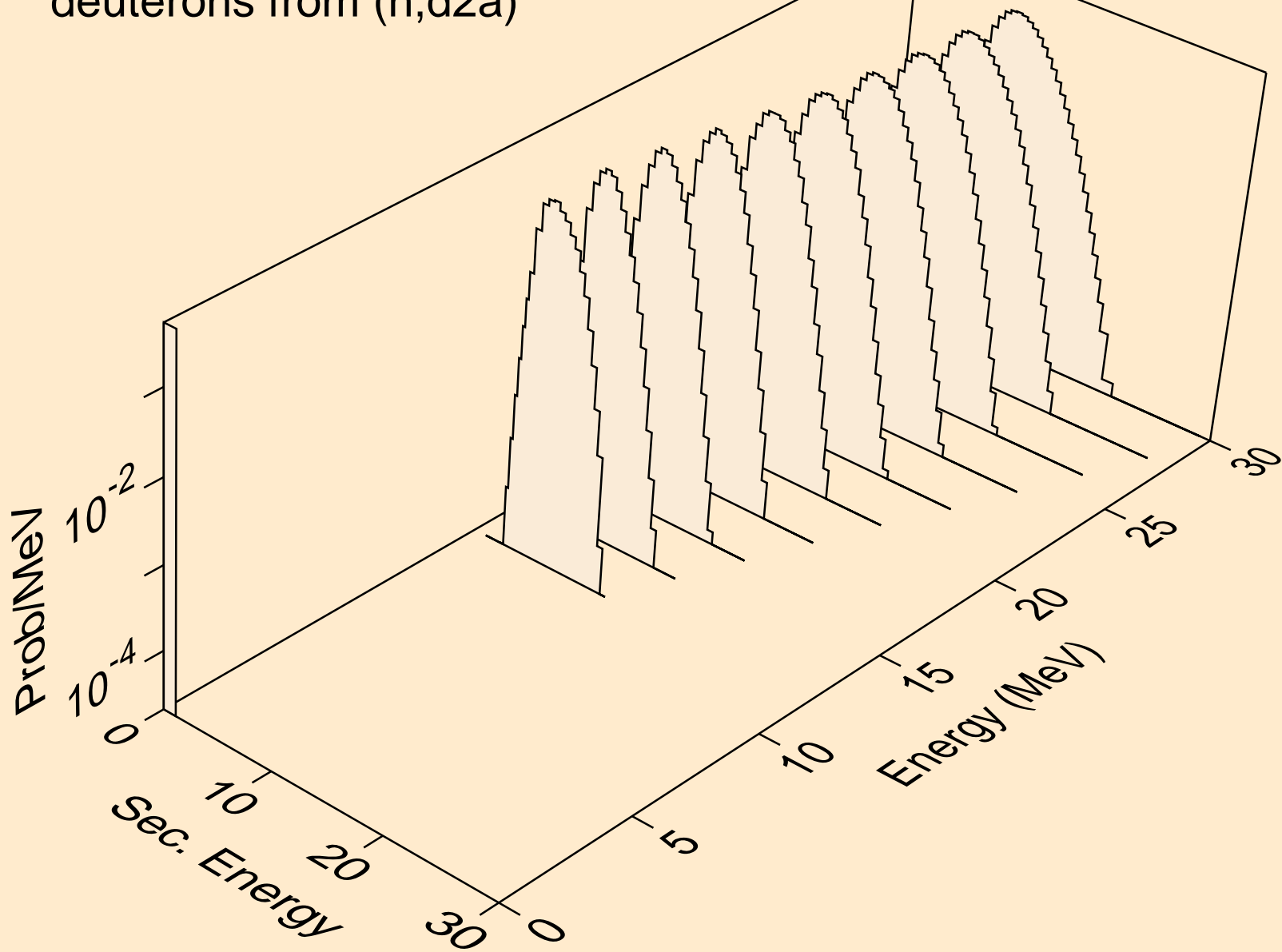




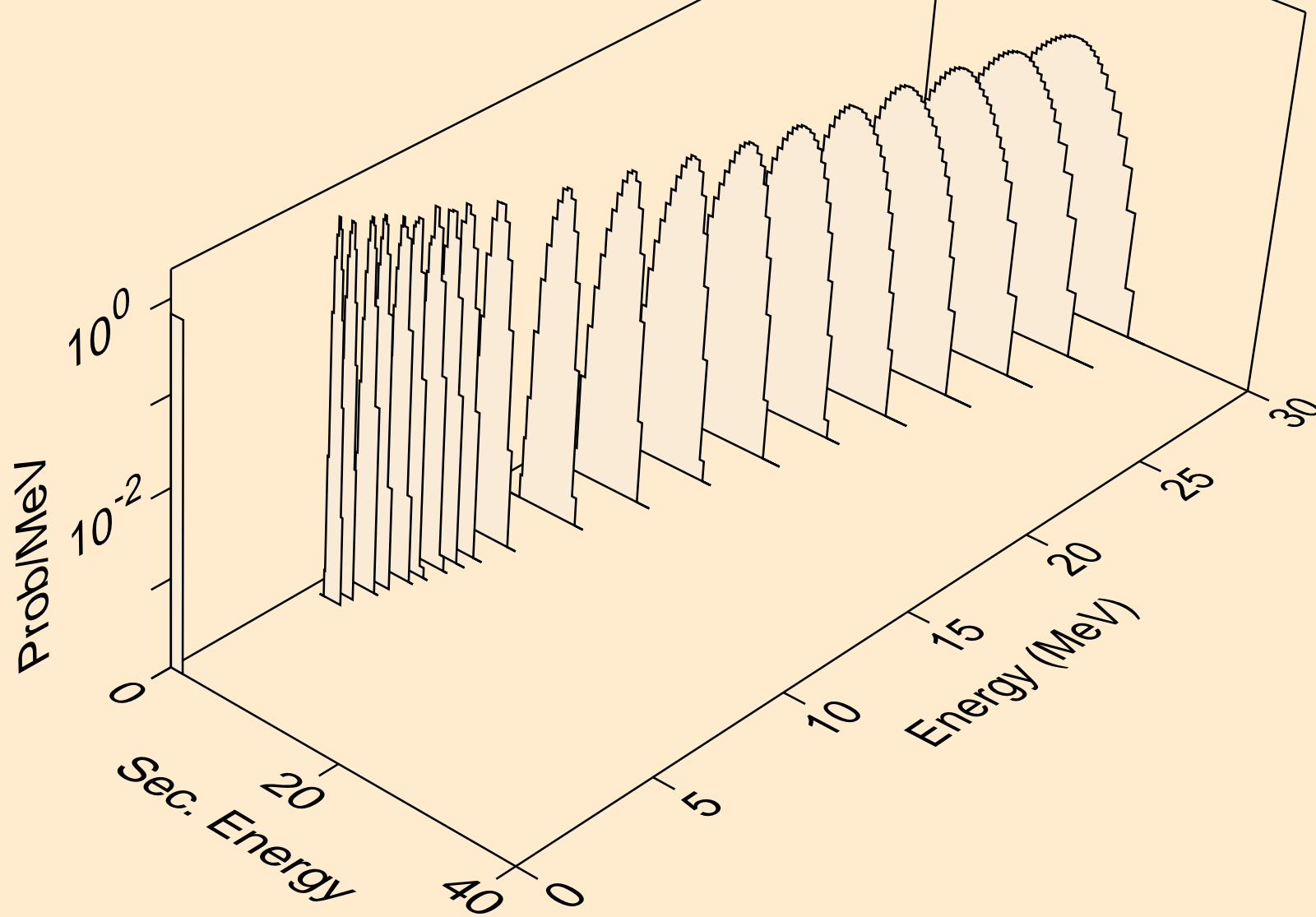
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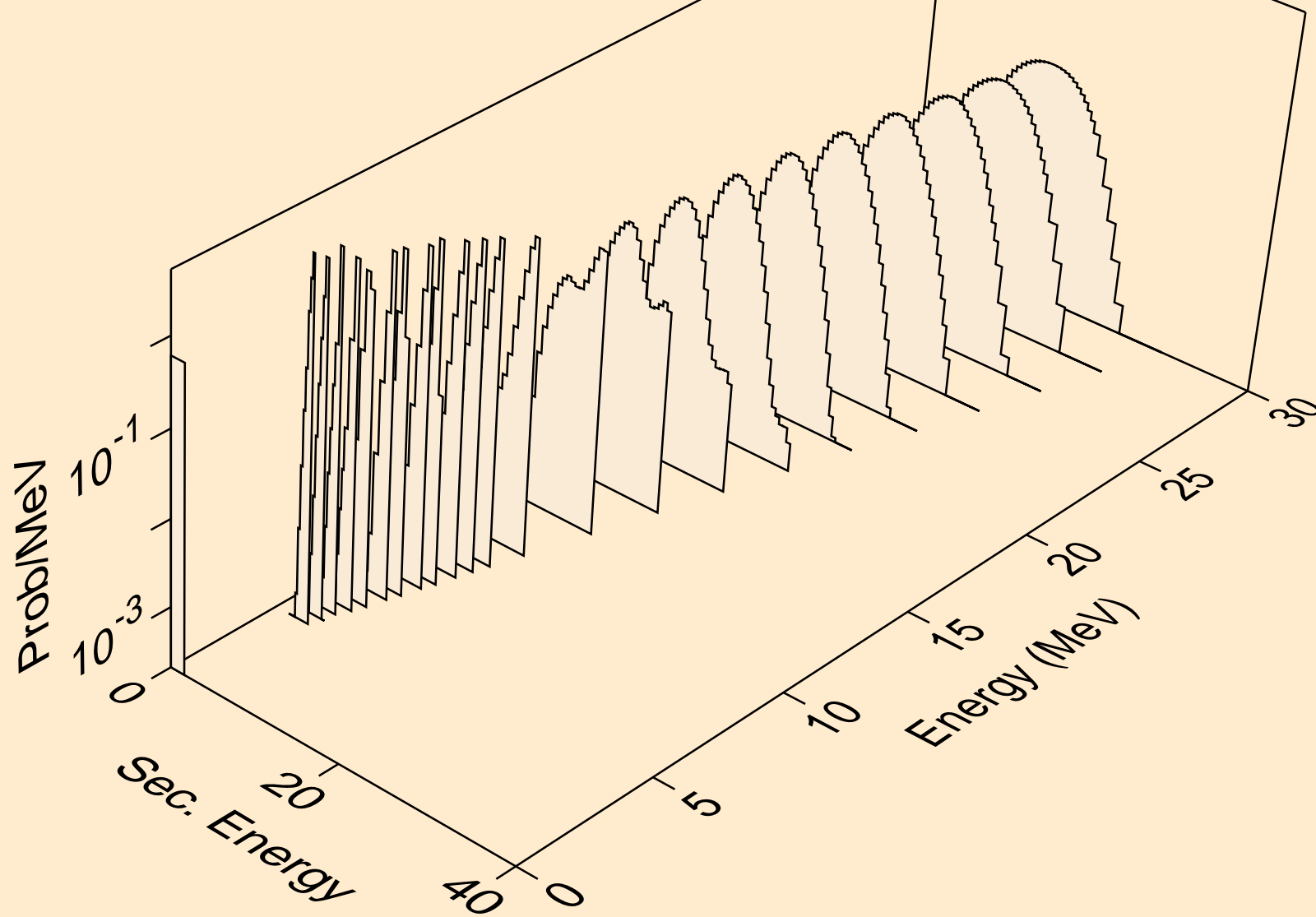
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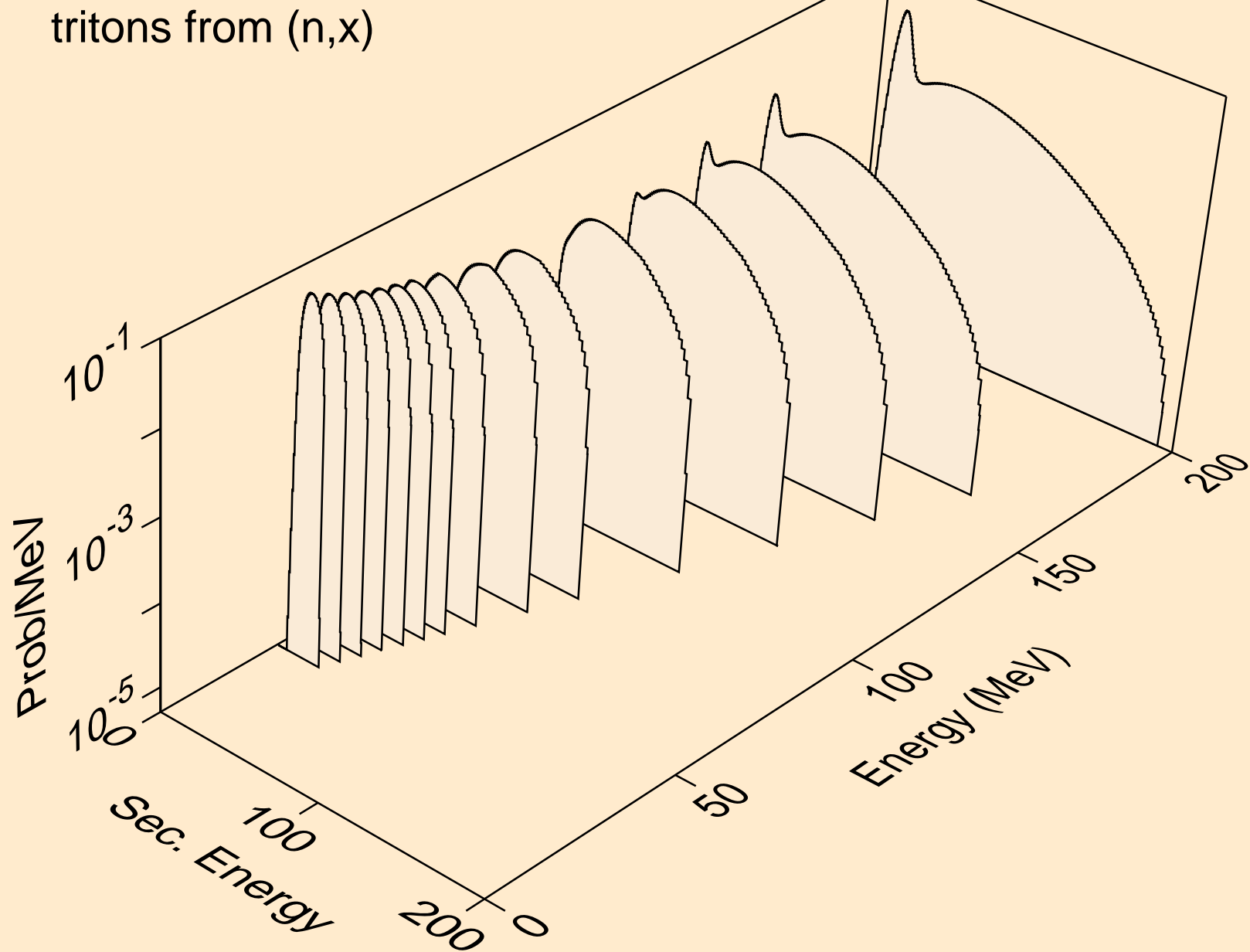
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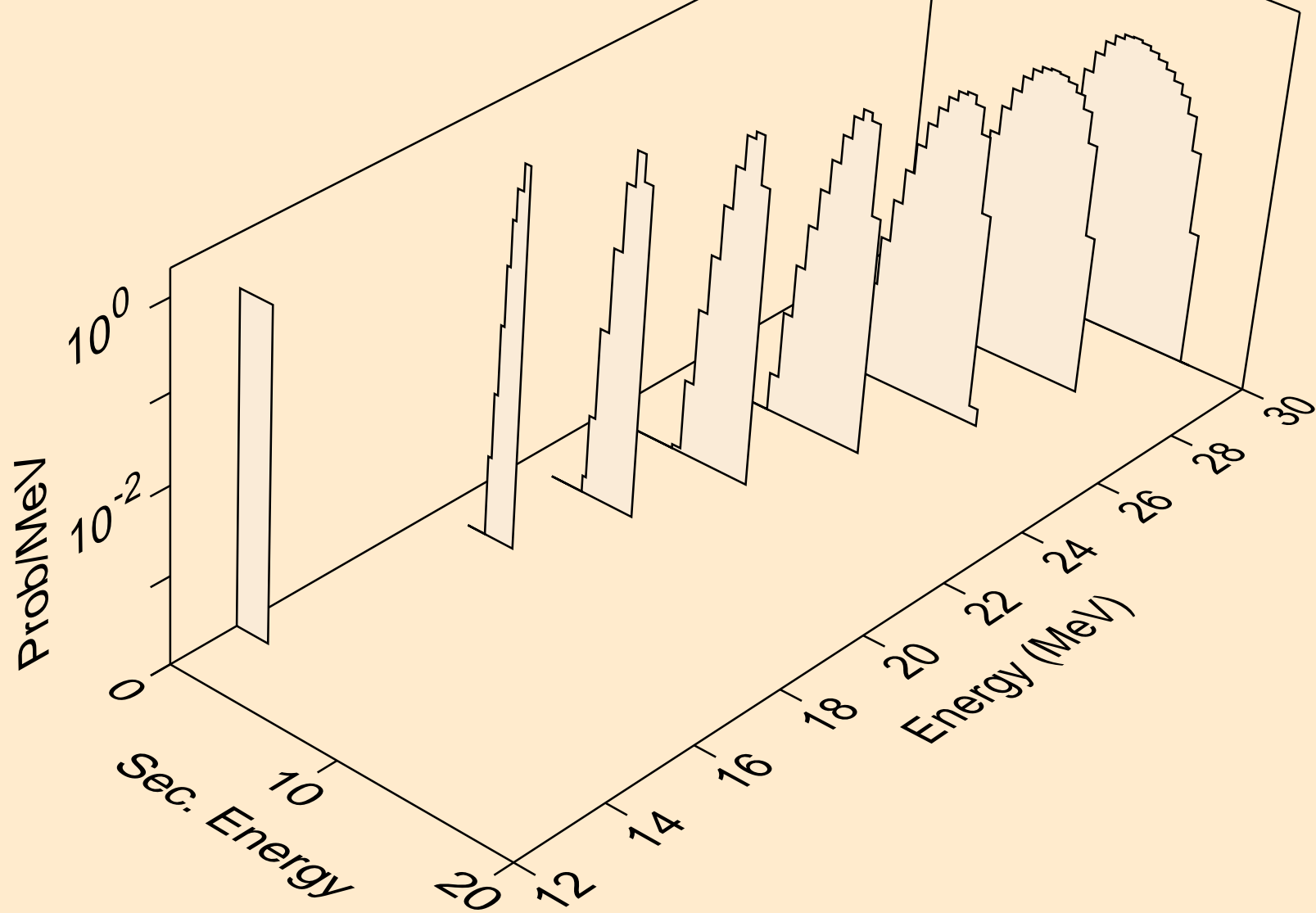
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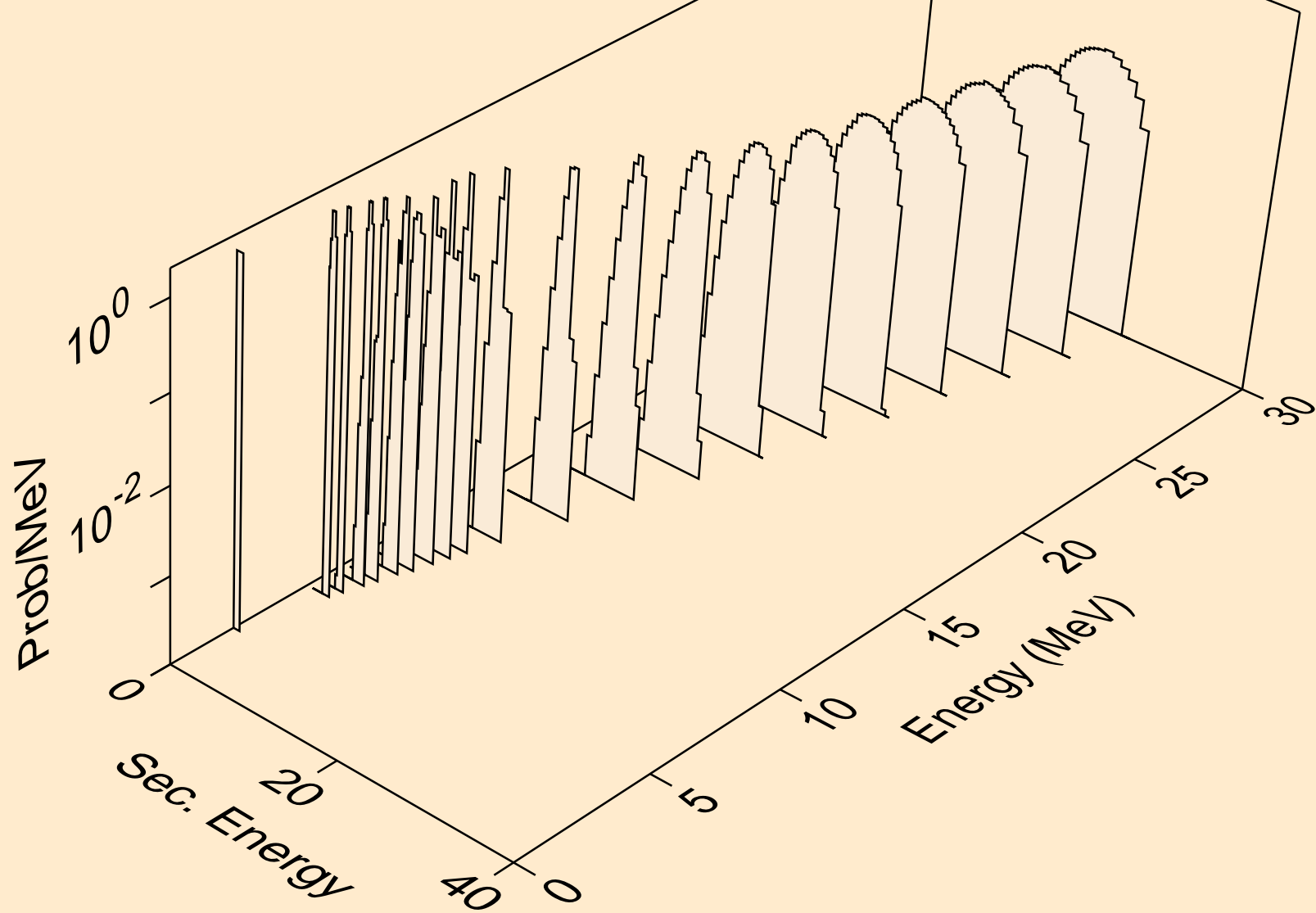
HG179 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
tritons from (n,x)



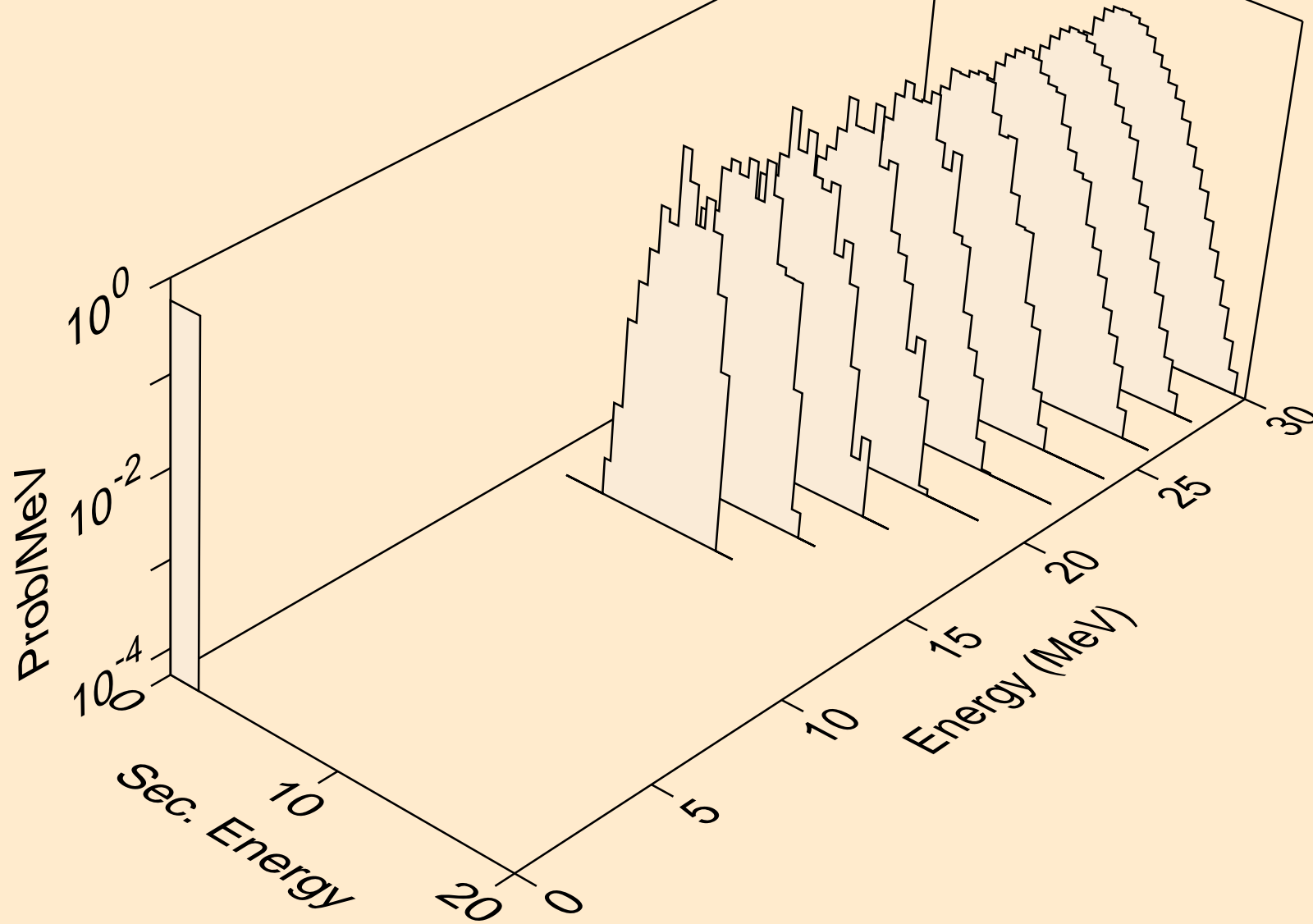
HG179 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
tritons from (n,n\*)t



HG179 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
tritons from (n,t)

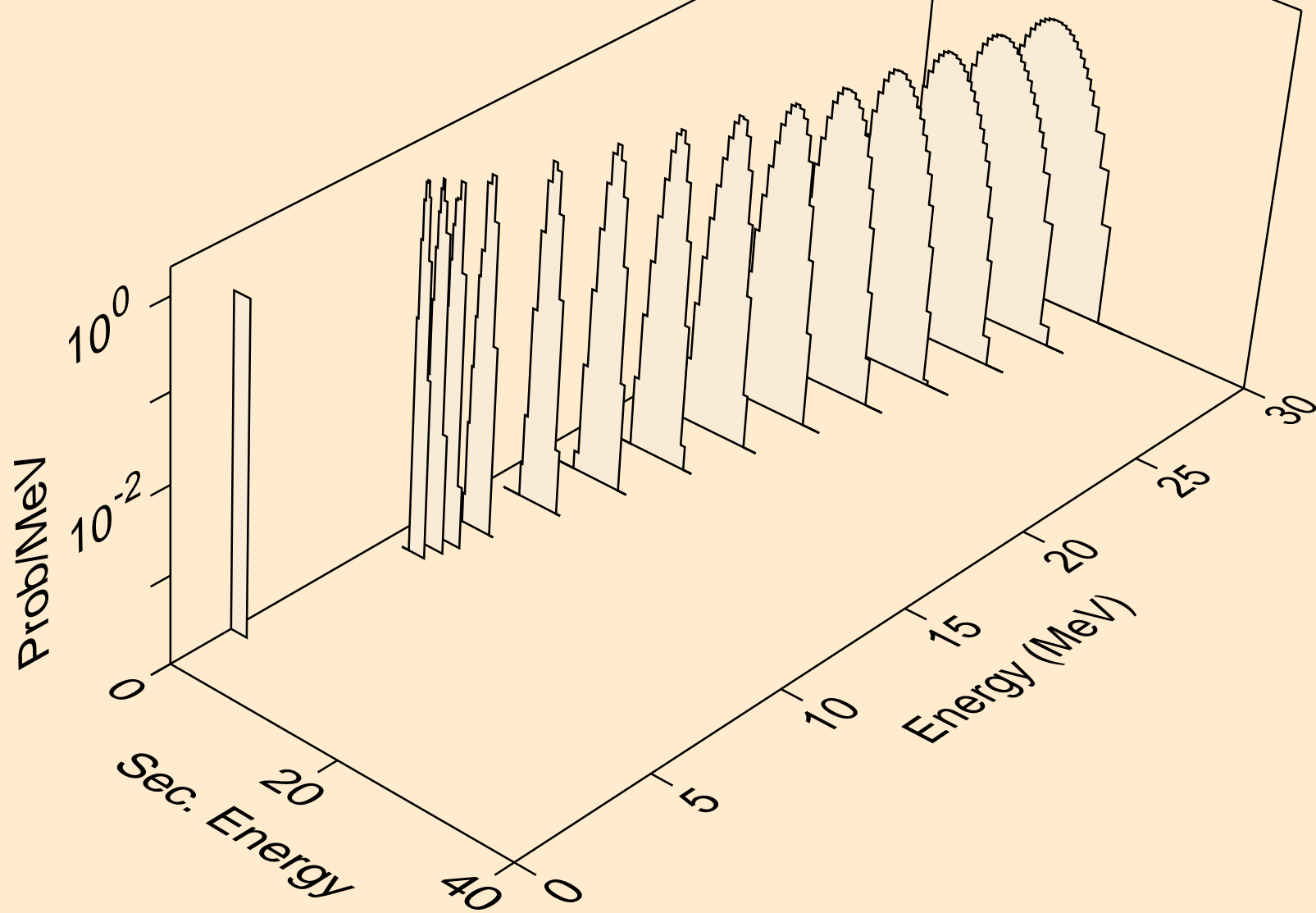


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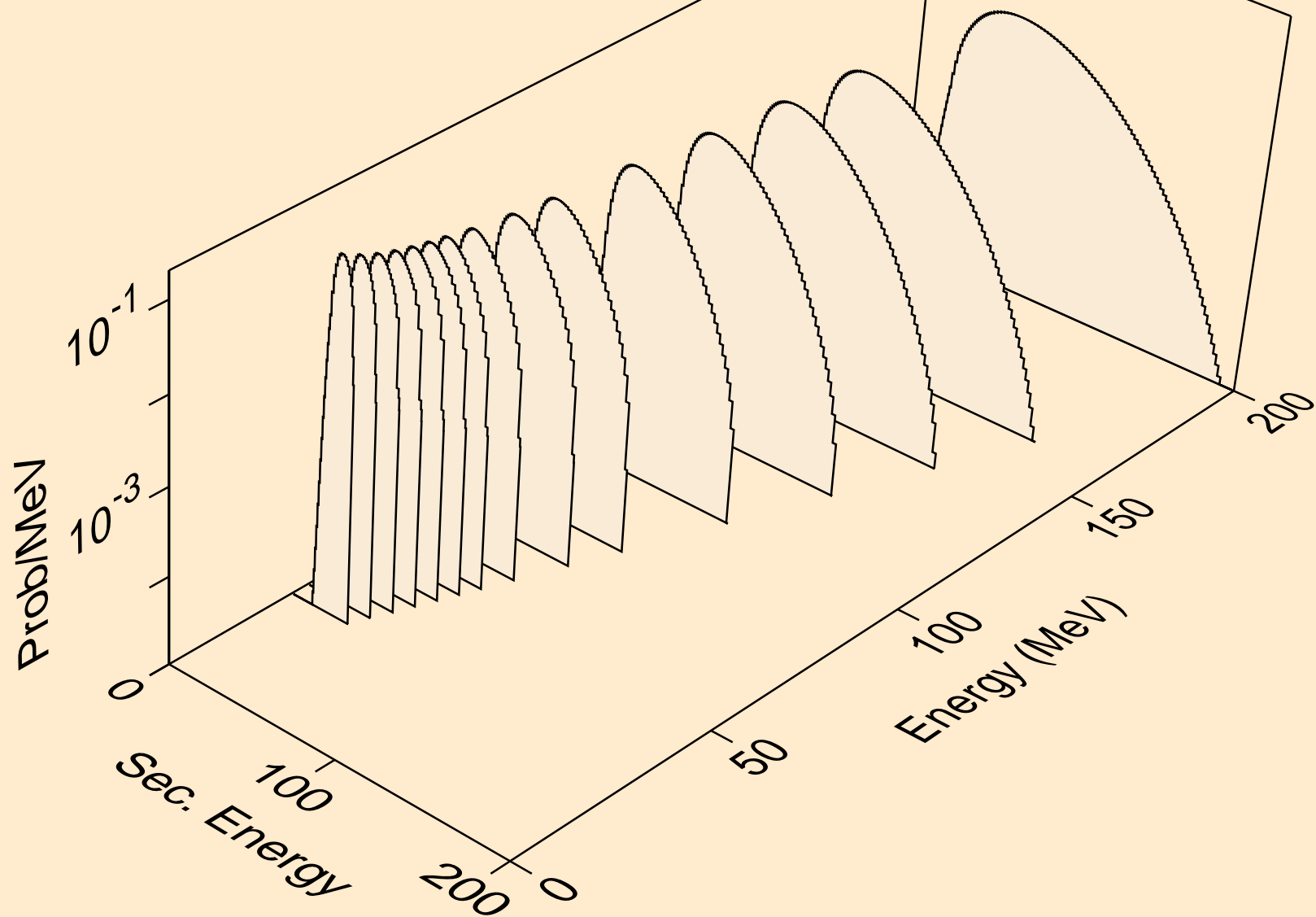




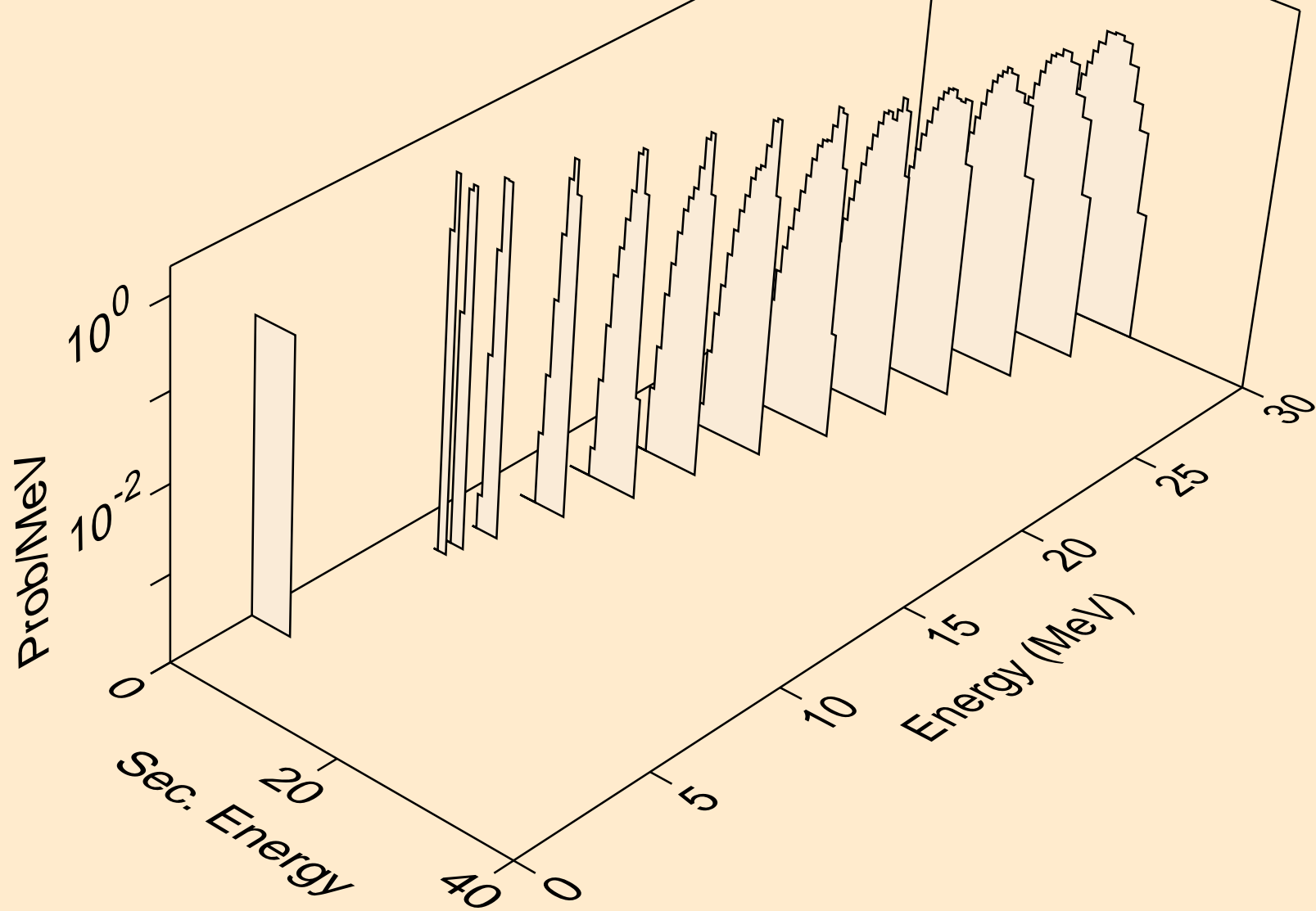
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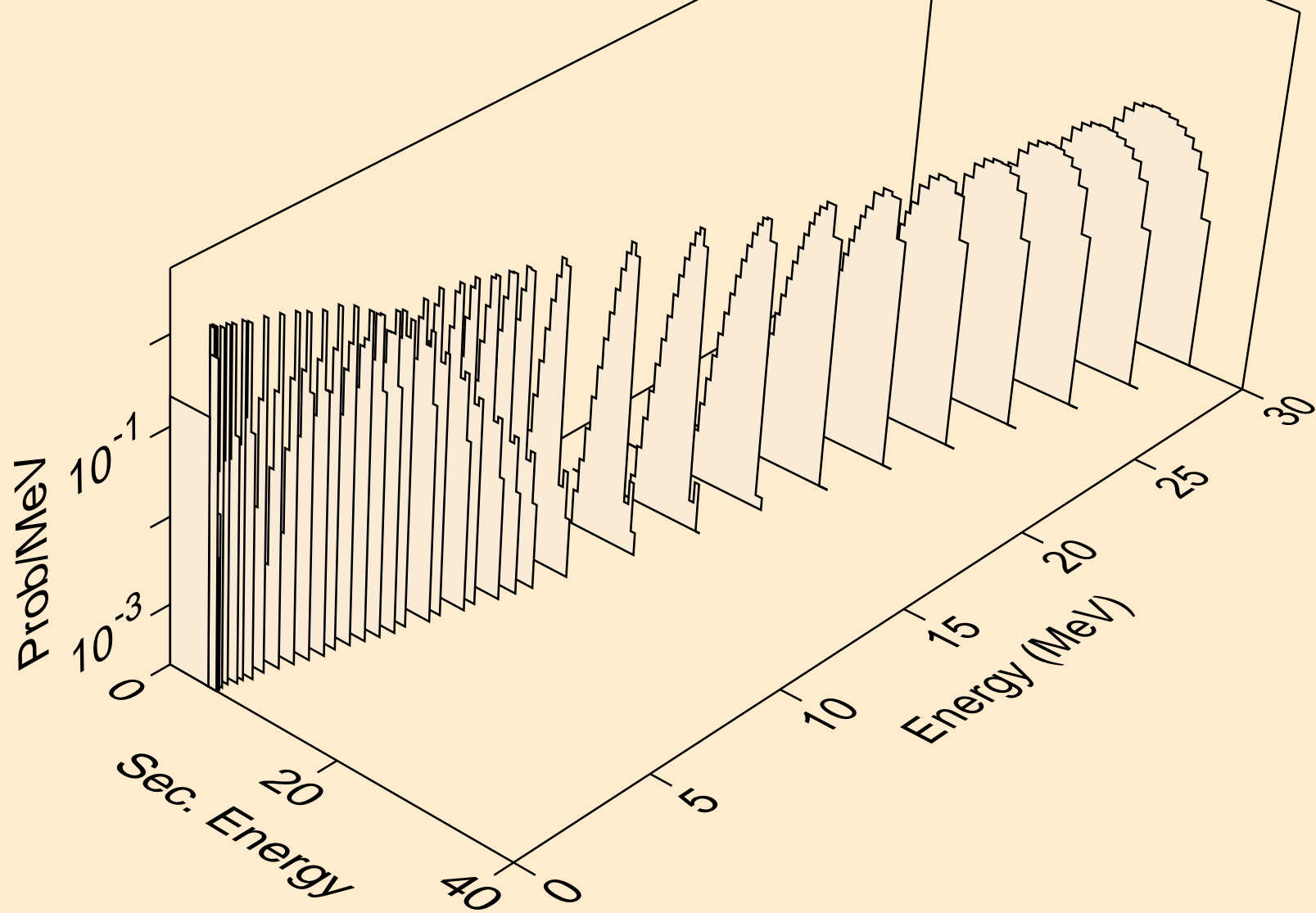
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he3s from (n,x)



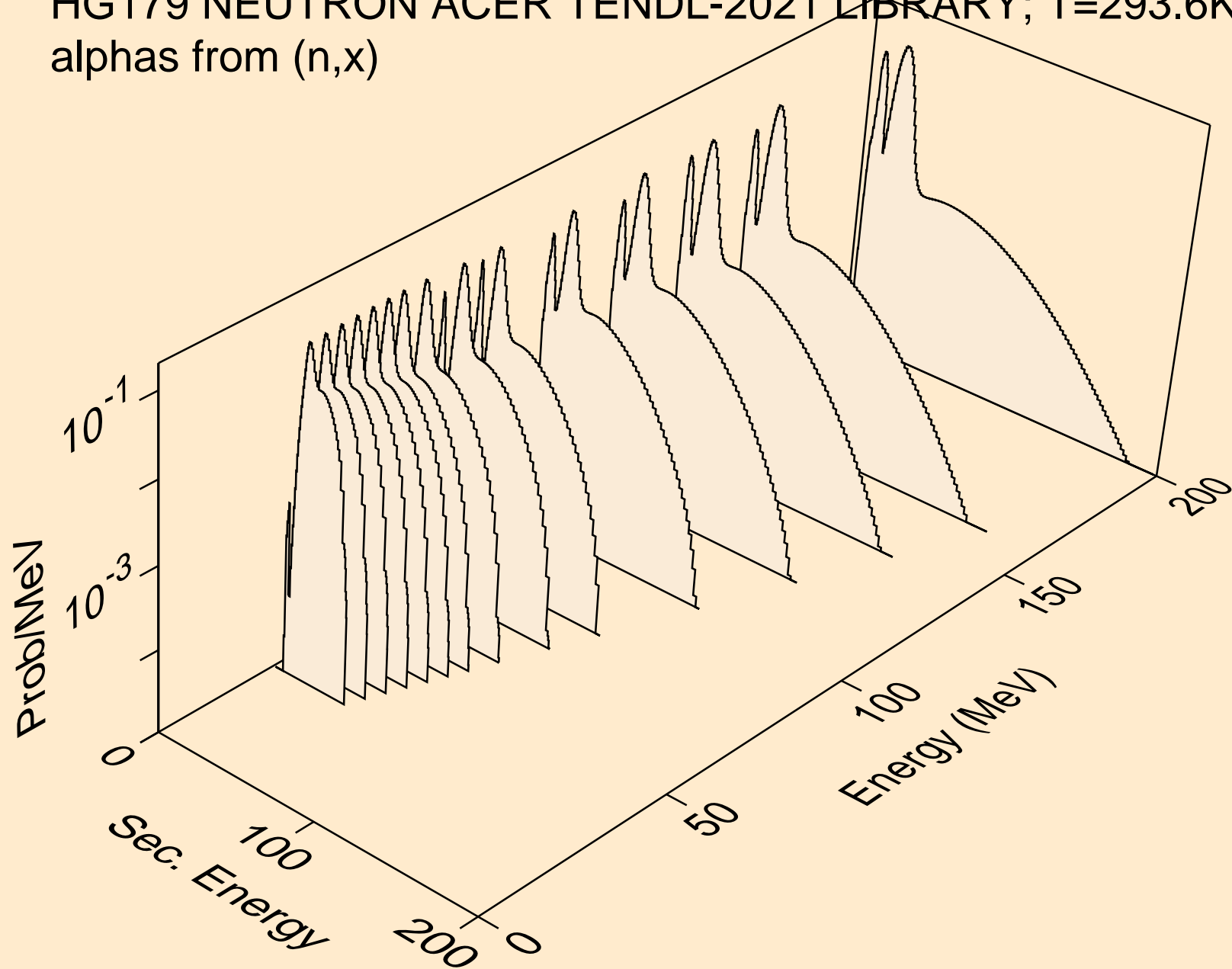
HG179 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
he3s from (n,n\*)he3



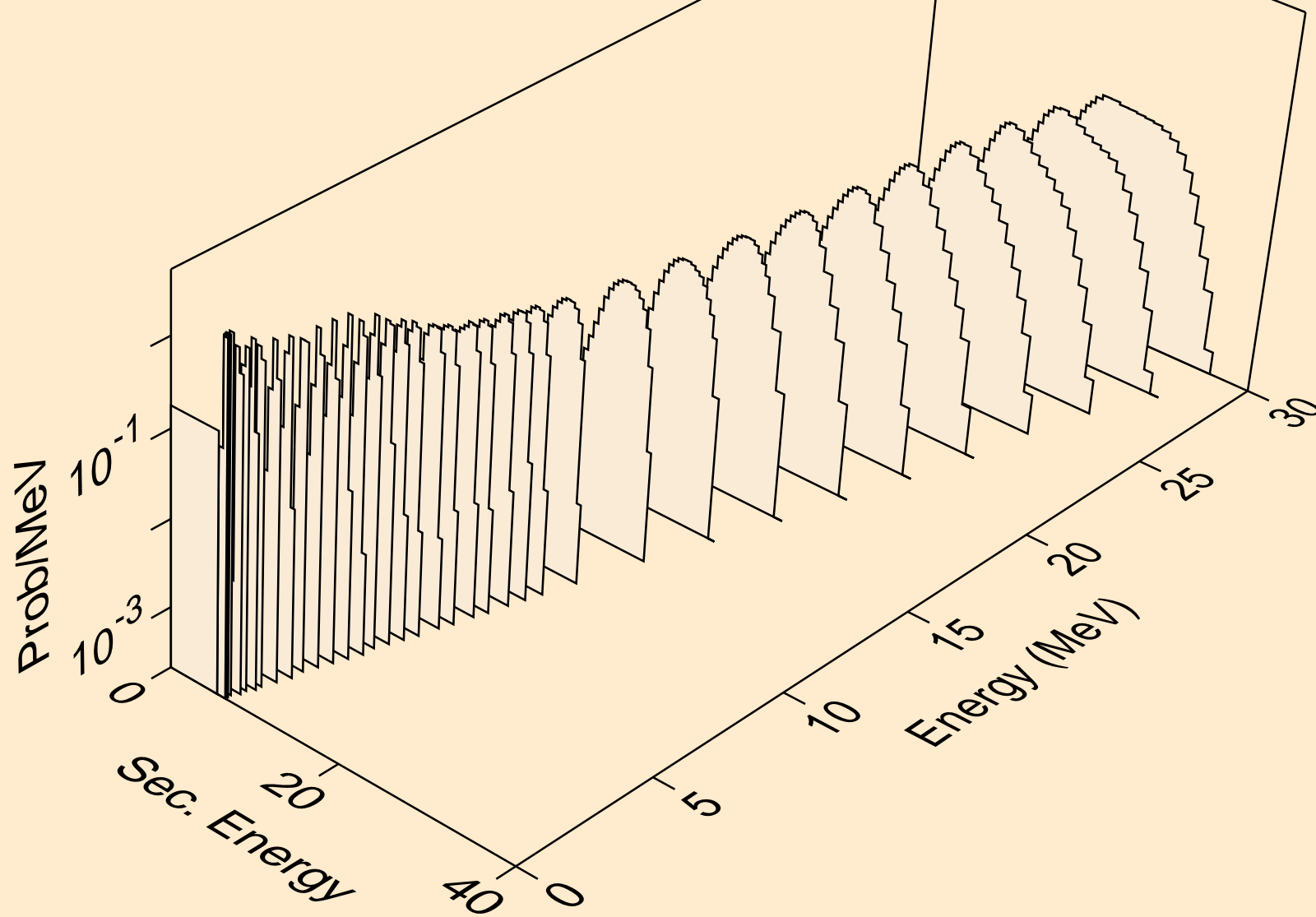
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he3s from (n,he3)



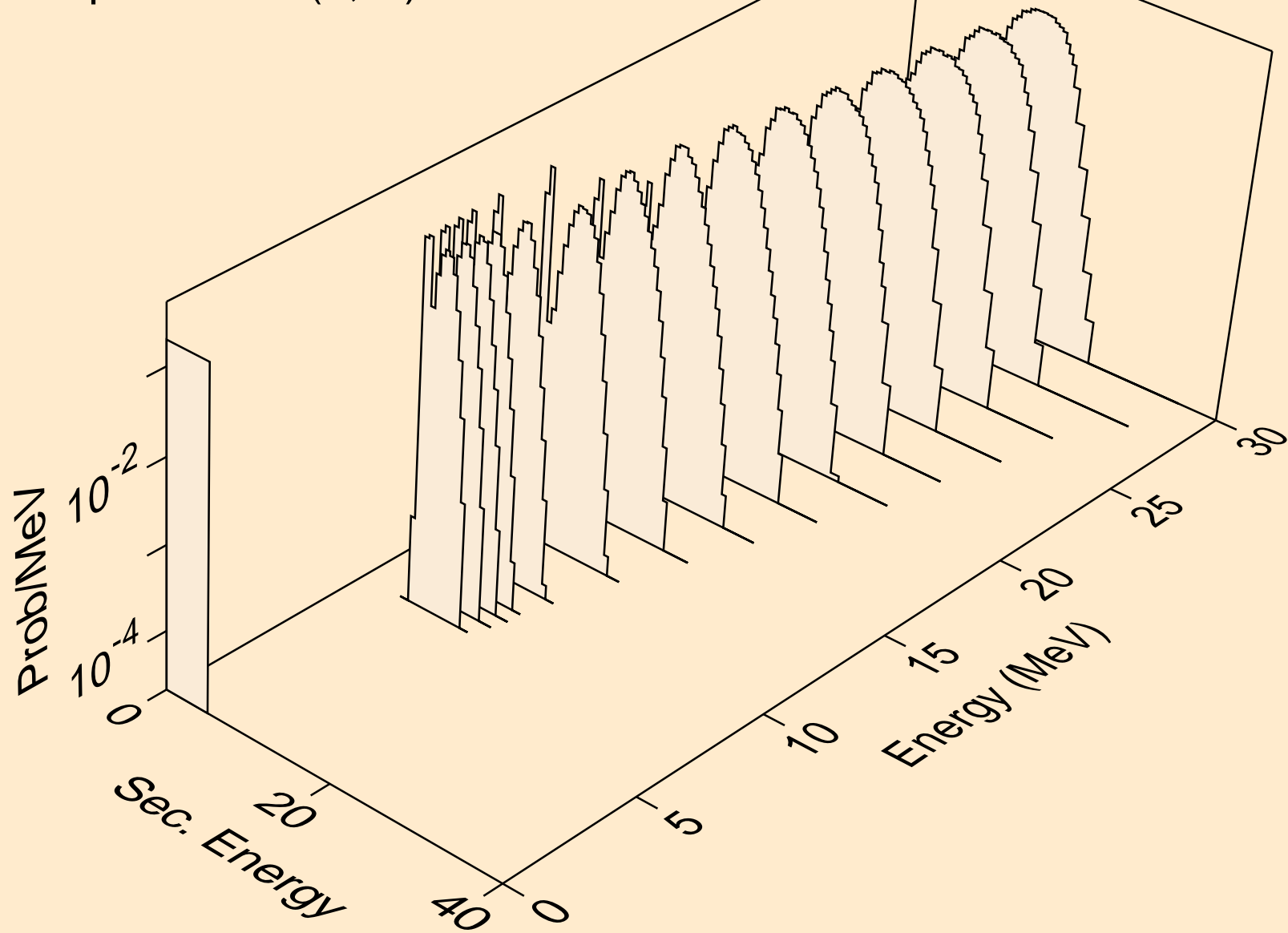
HG179 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
alphas from (n,x)



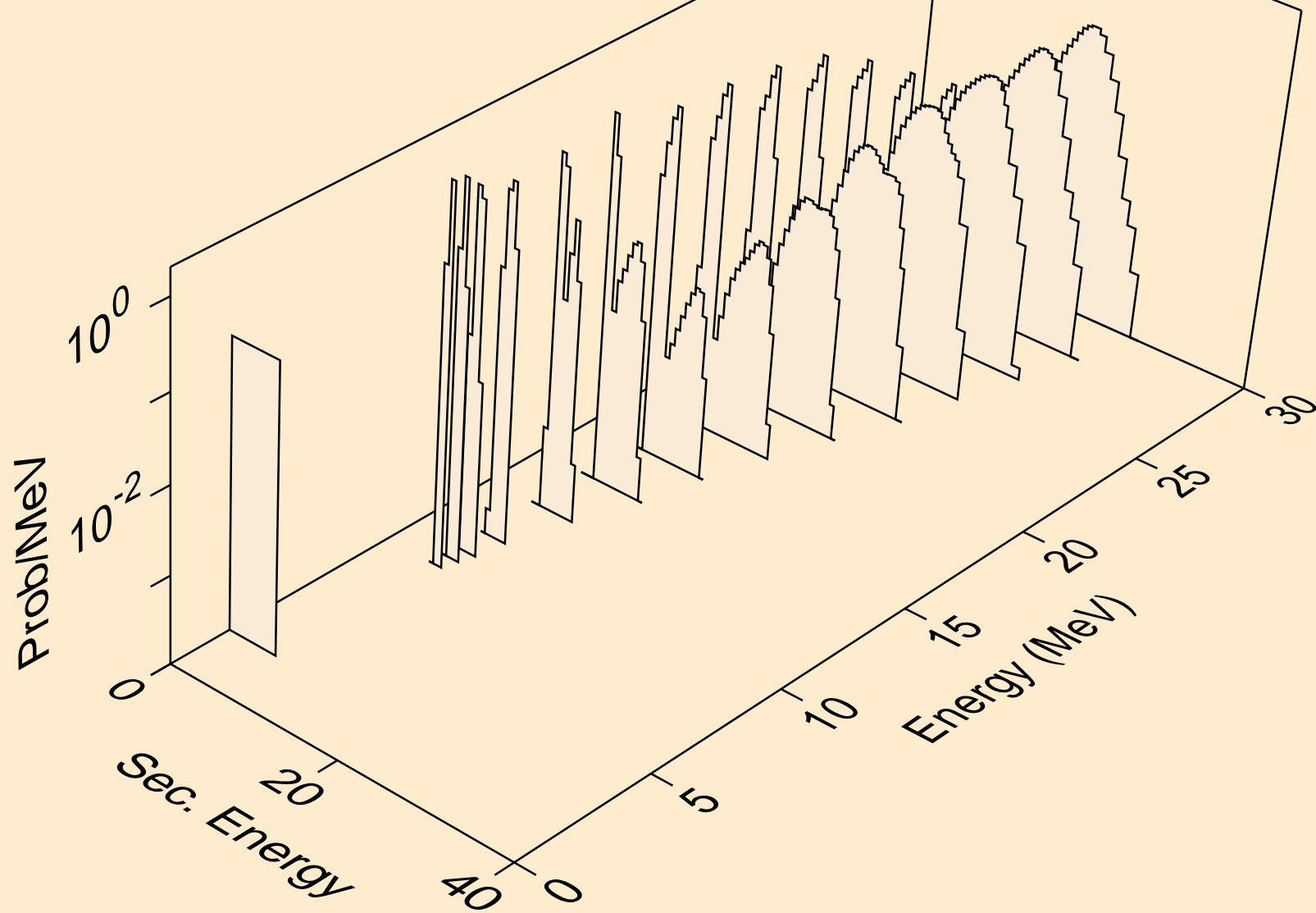
HG179 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
alphas from (n,n\*)a



HG179 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
alphas from (n,n\*)3a

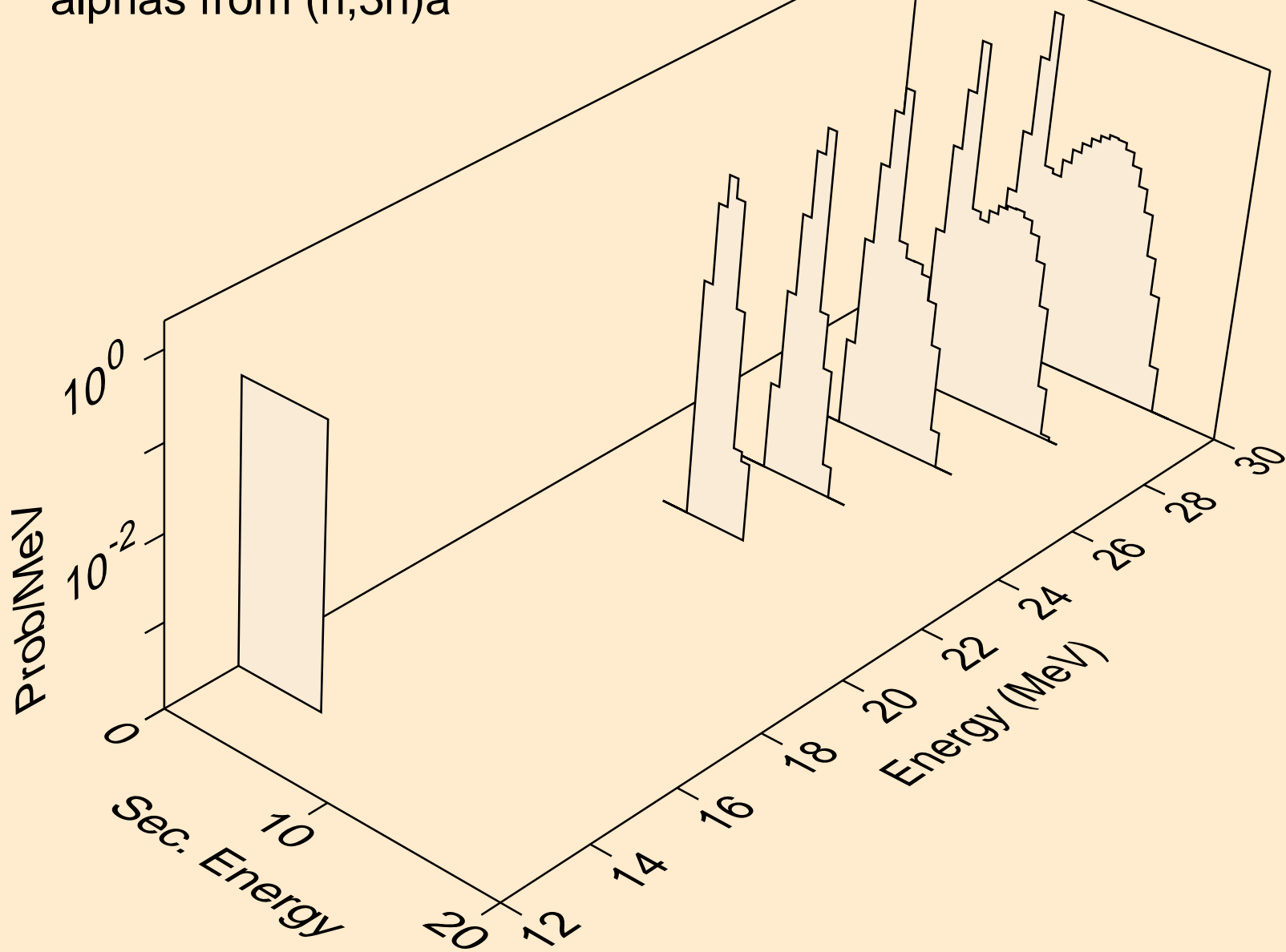


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alphas from (n,2n)a

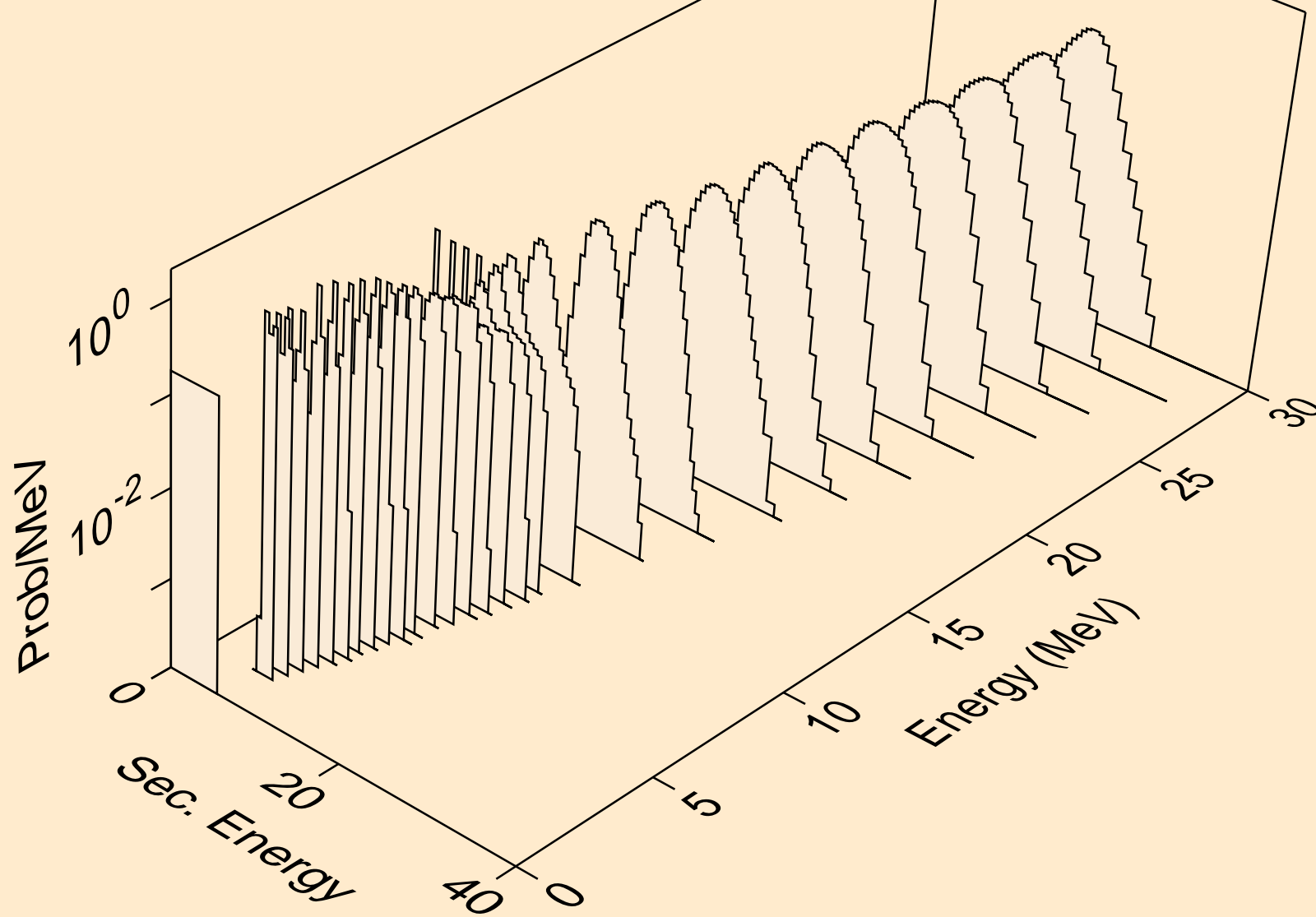




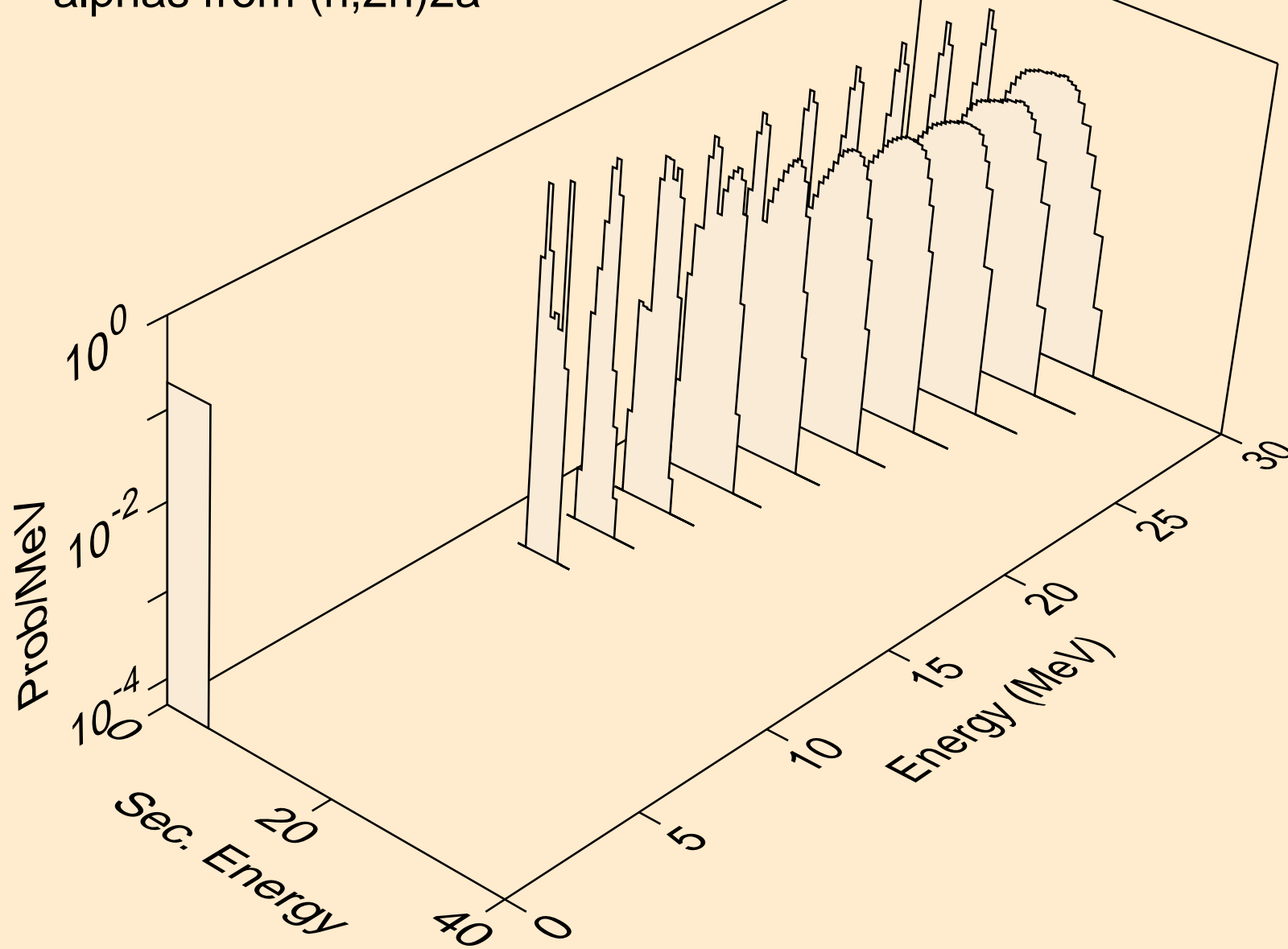
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alphas from (n,3n)a



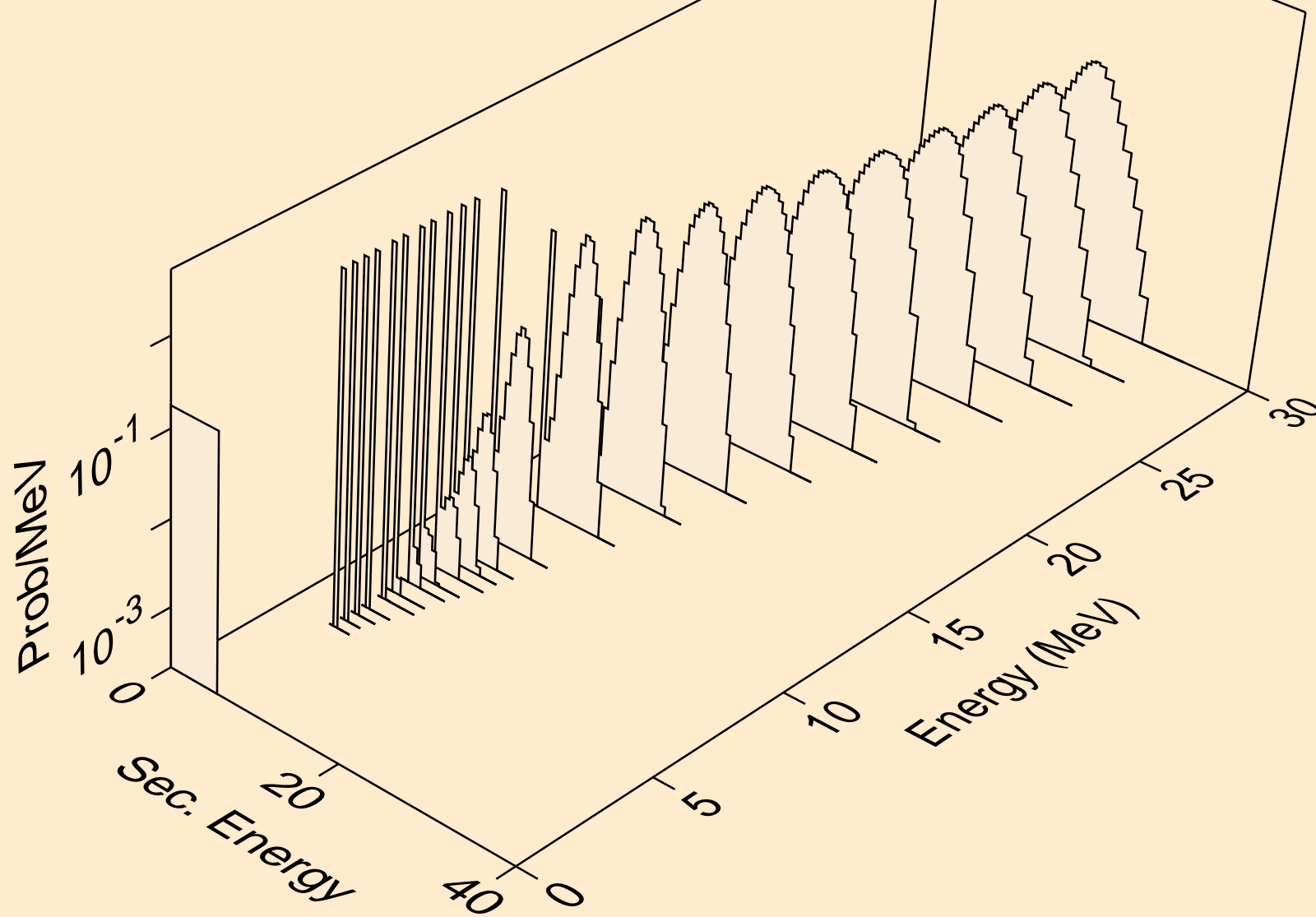
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alphas from (n,n\*)2a



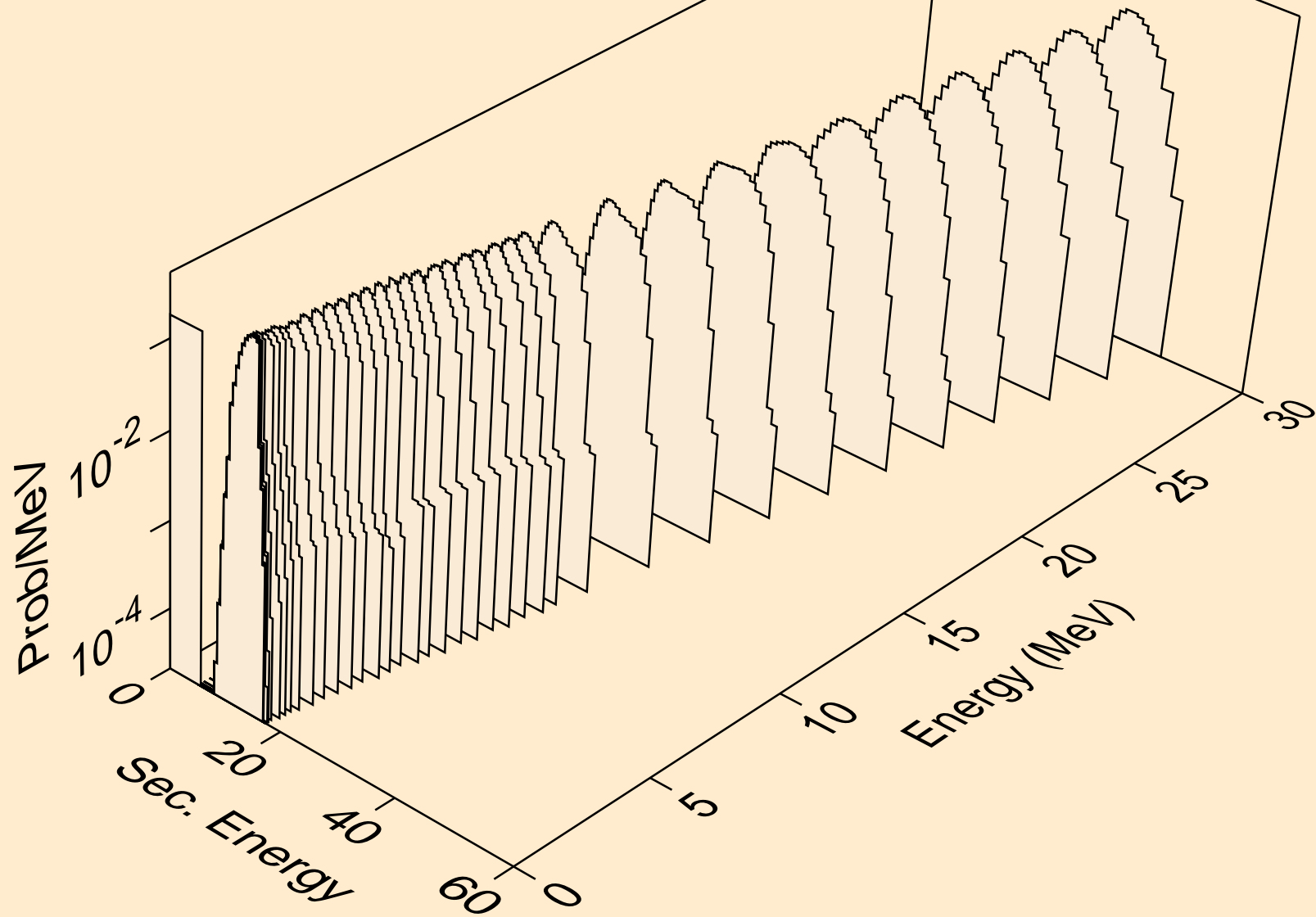
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alphas from (n,2n)2a



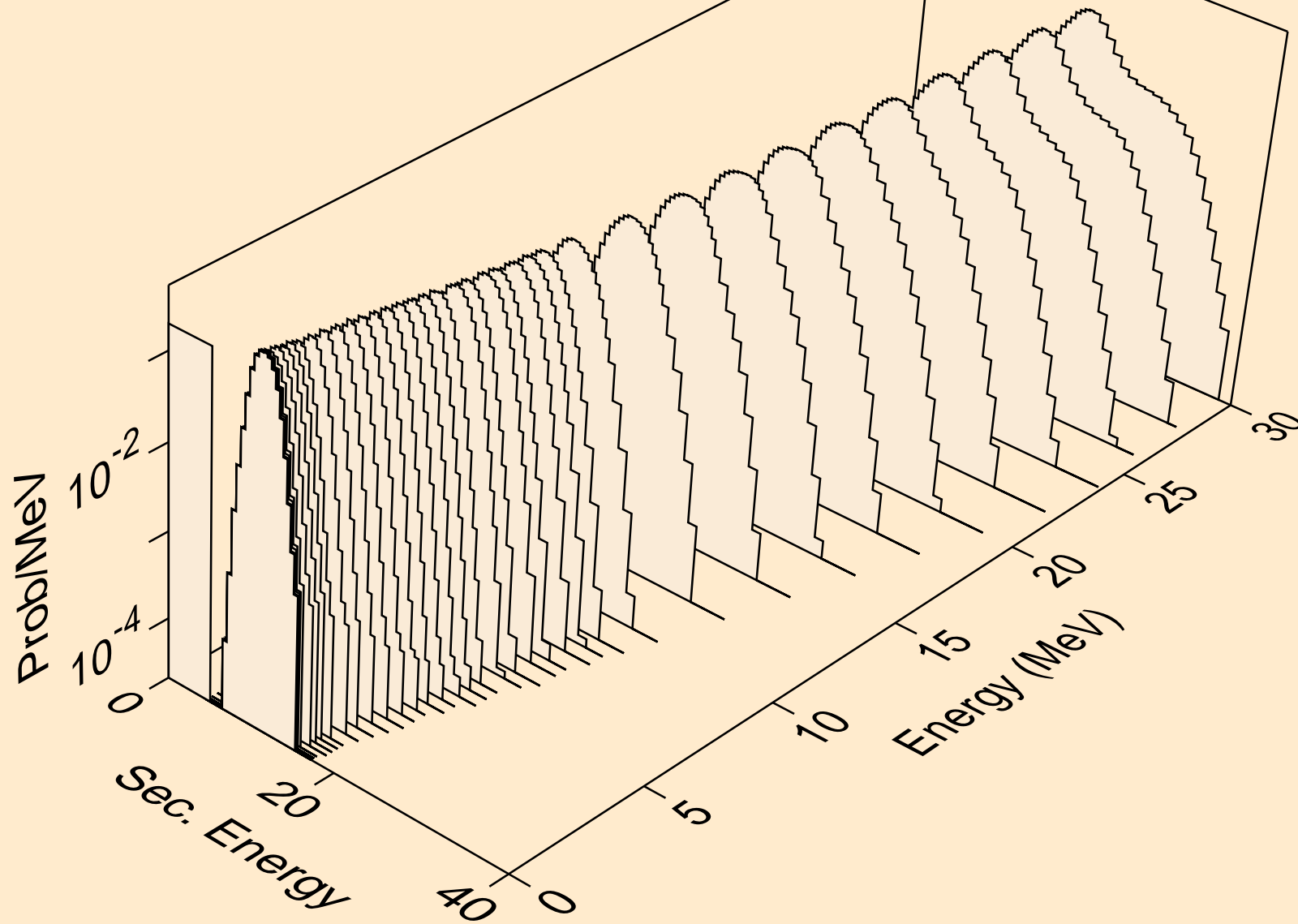
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alphas from (n,npa)



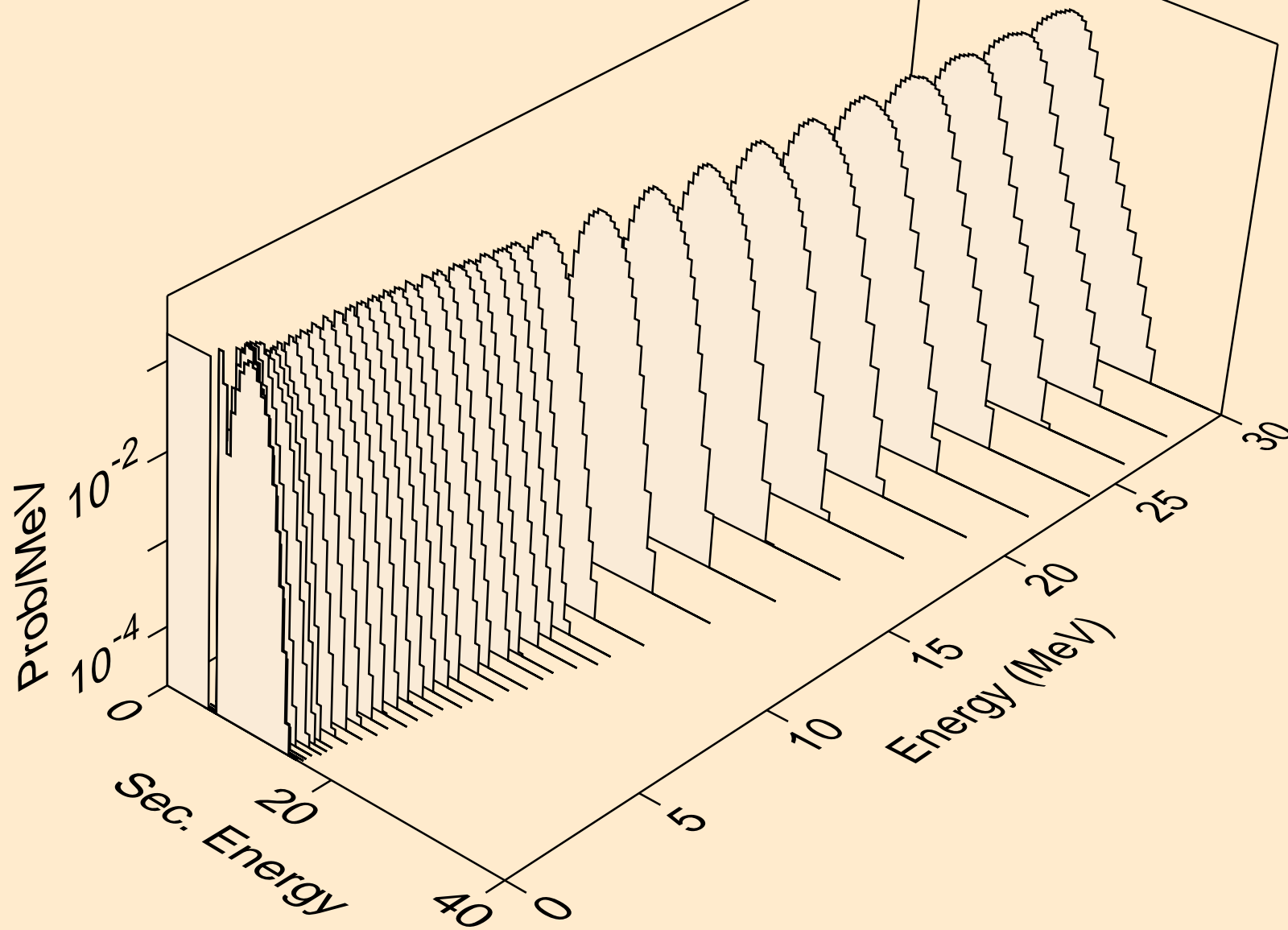
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alphas from (n,a)



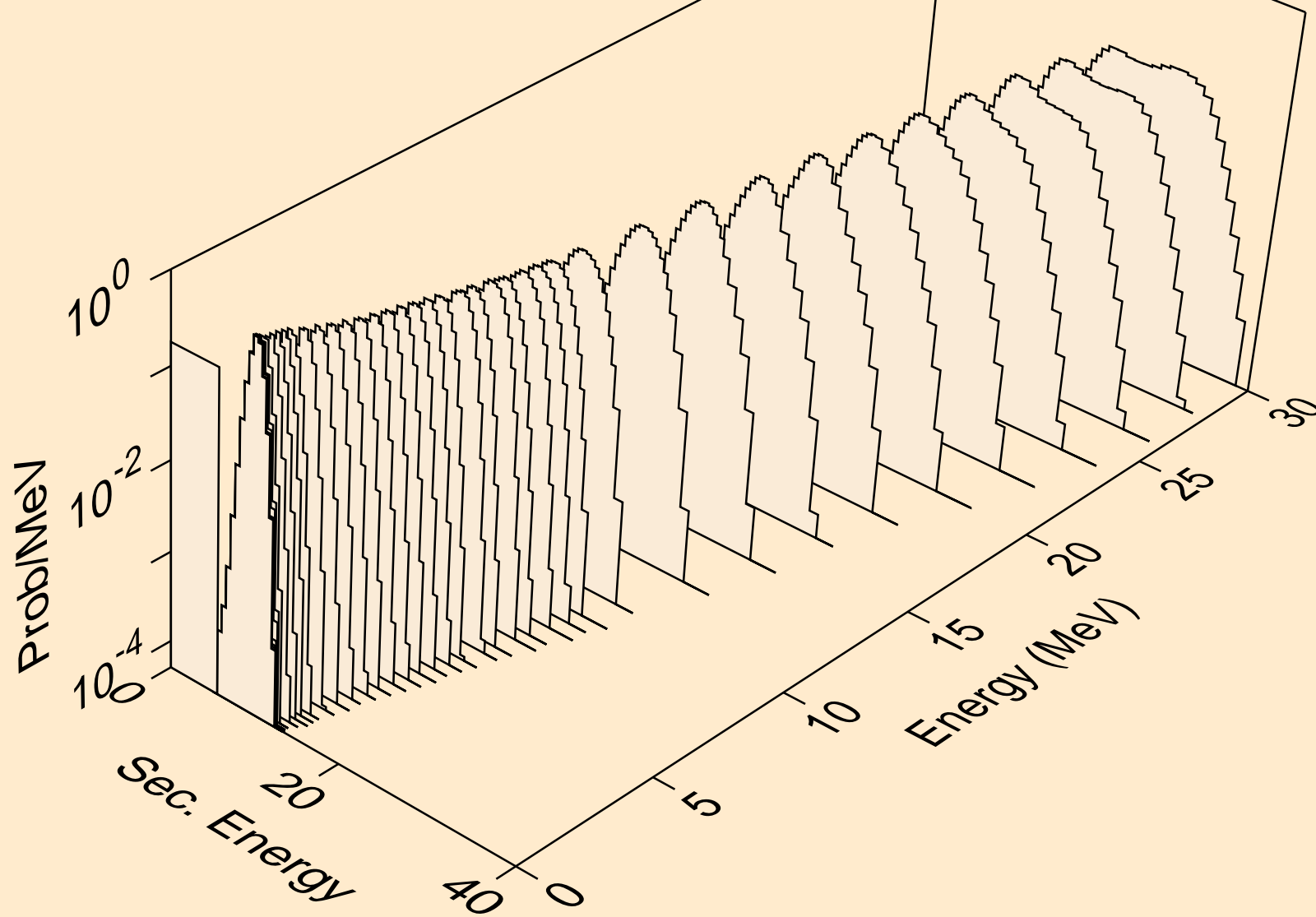
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alphas from (n,2a)



HG179 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
alphas from (n,3a)

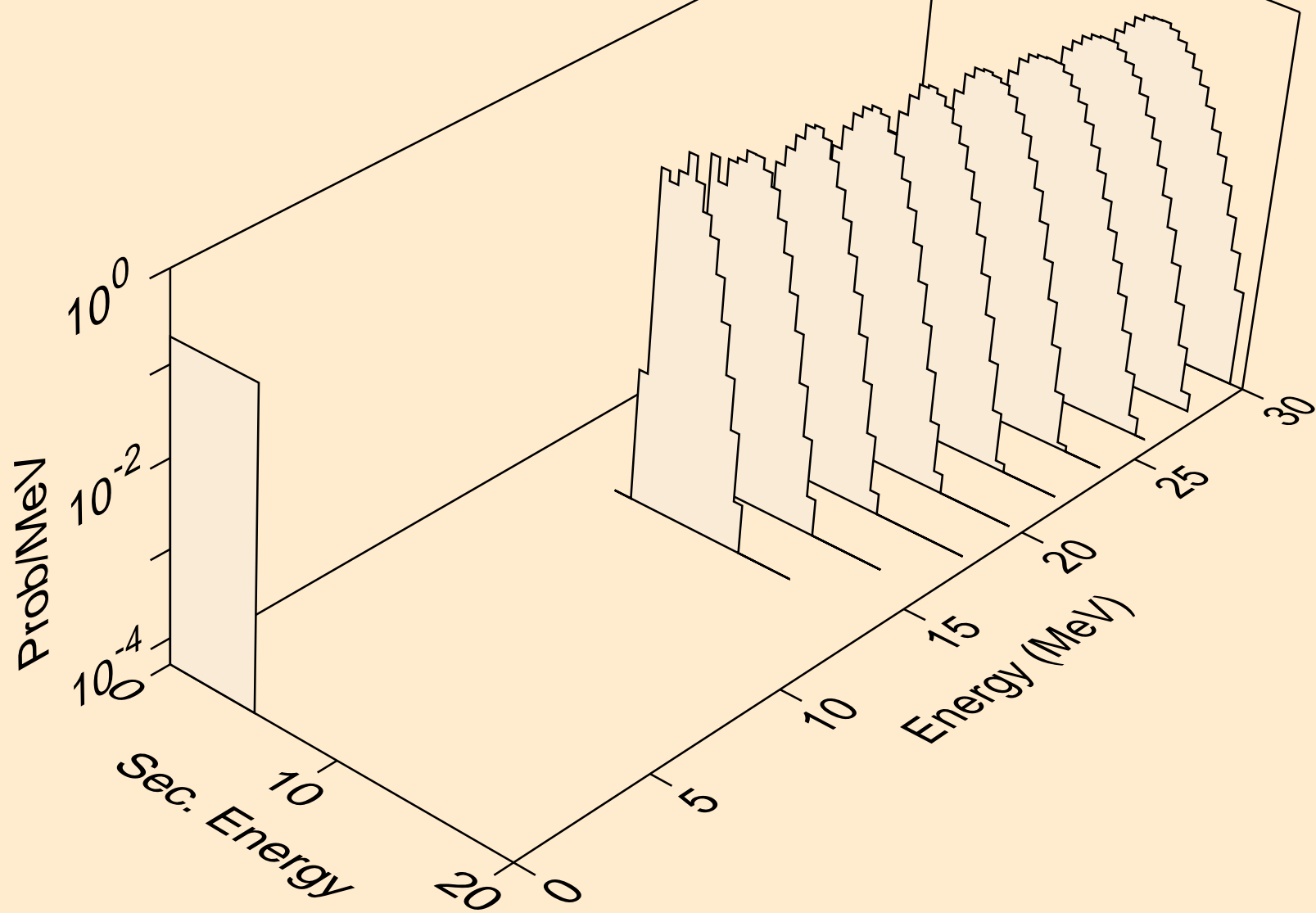


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alphas from (n,pa)

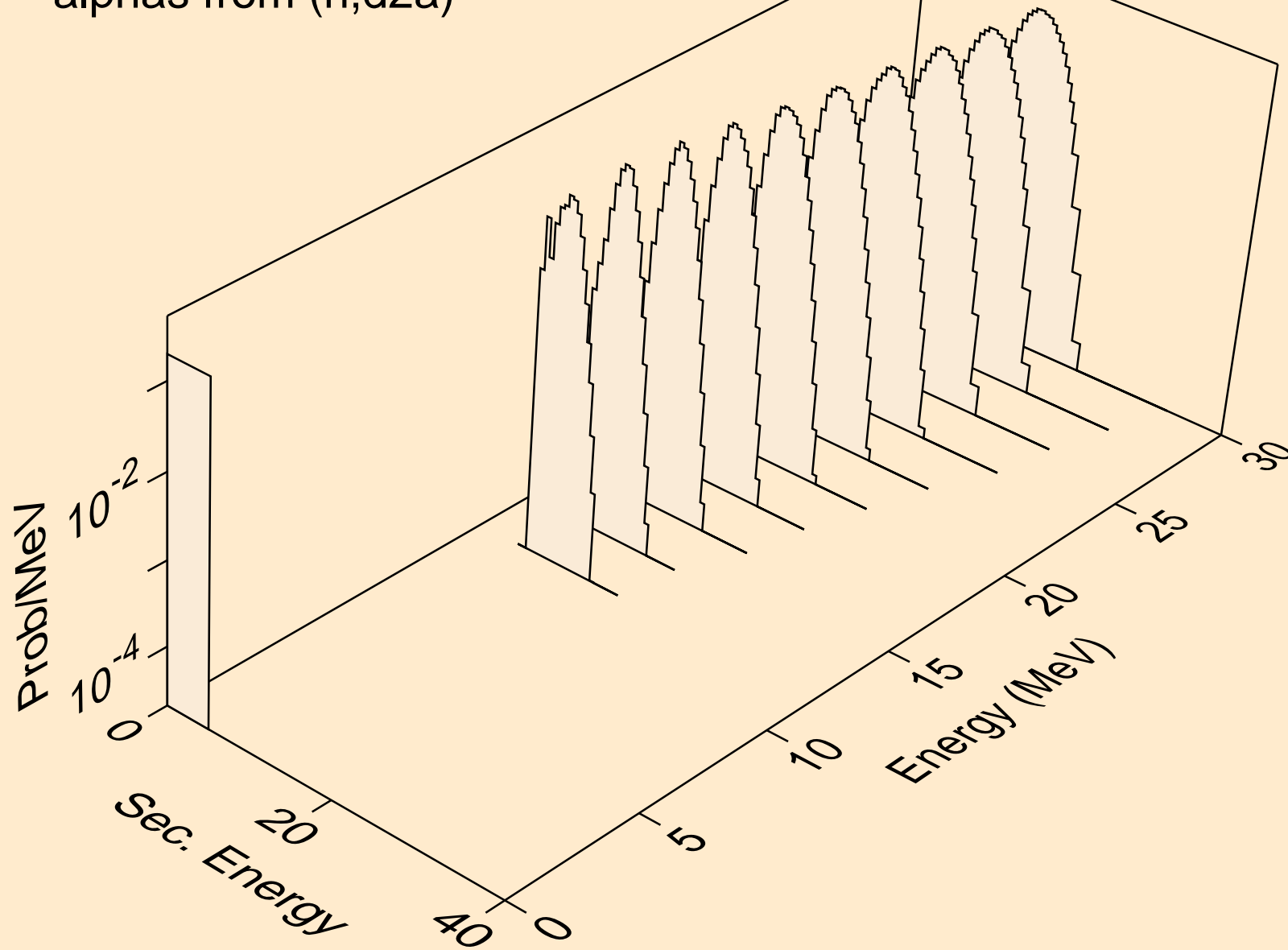




HG179 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
alphas from (n,t2a)



HG179 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
alphas from (n,d2a)



HG179 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
alphas from (n,da)

