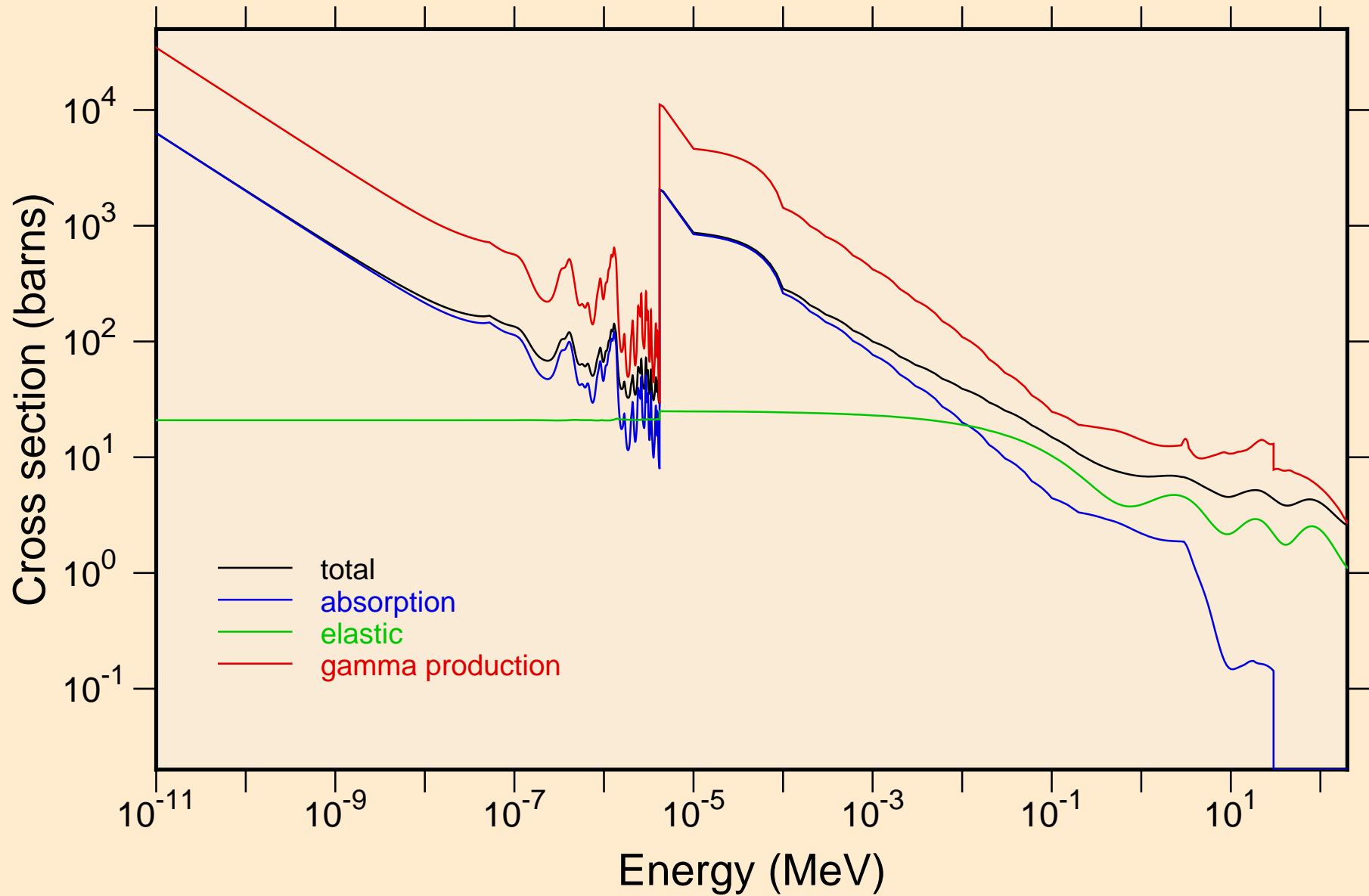


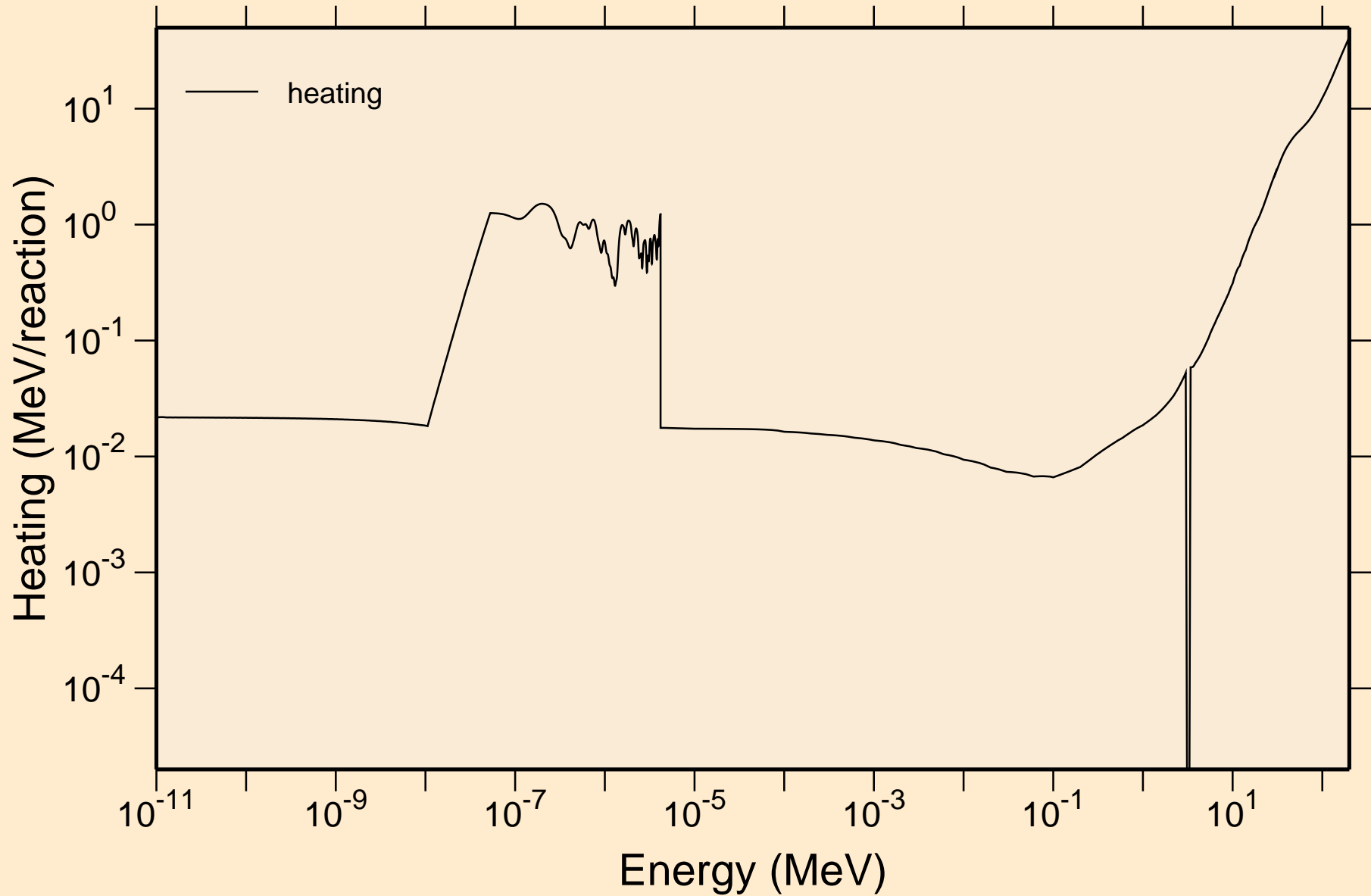
# HF165 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

## Principal cross sections



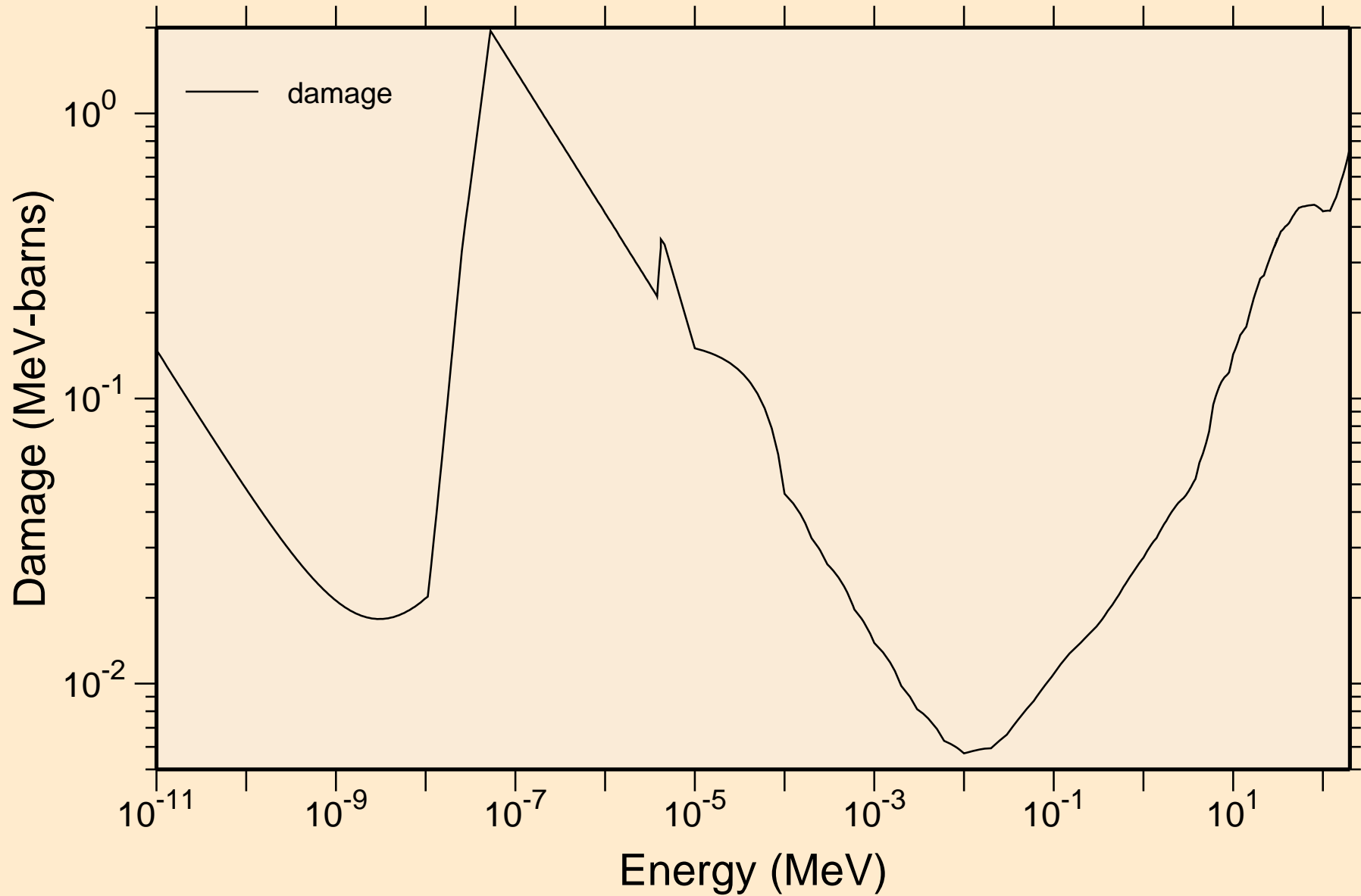
# HF165 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

## Heating



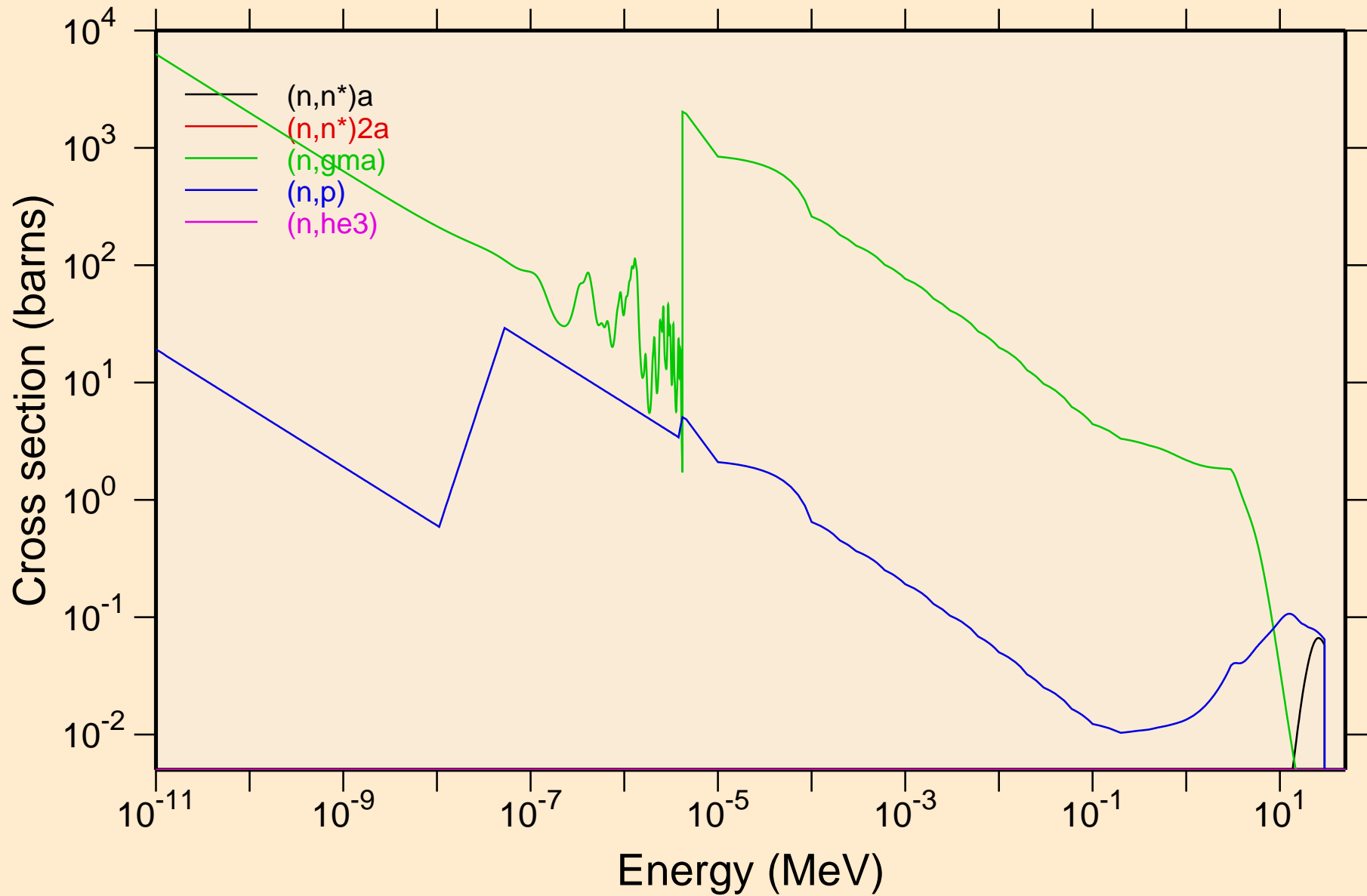
# HF165 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

## Damage



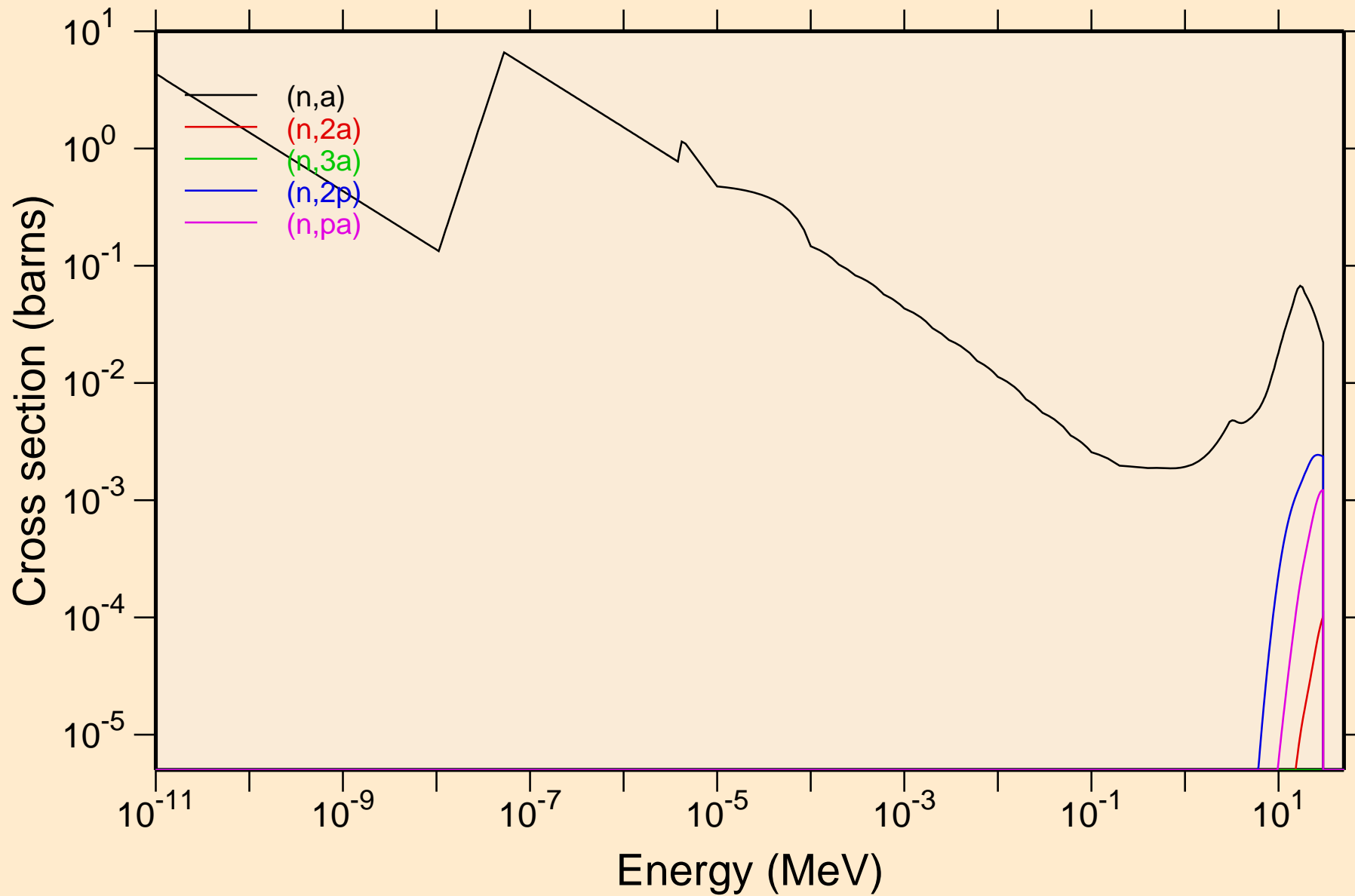
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## Non-threshold reactions



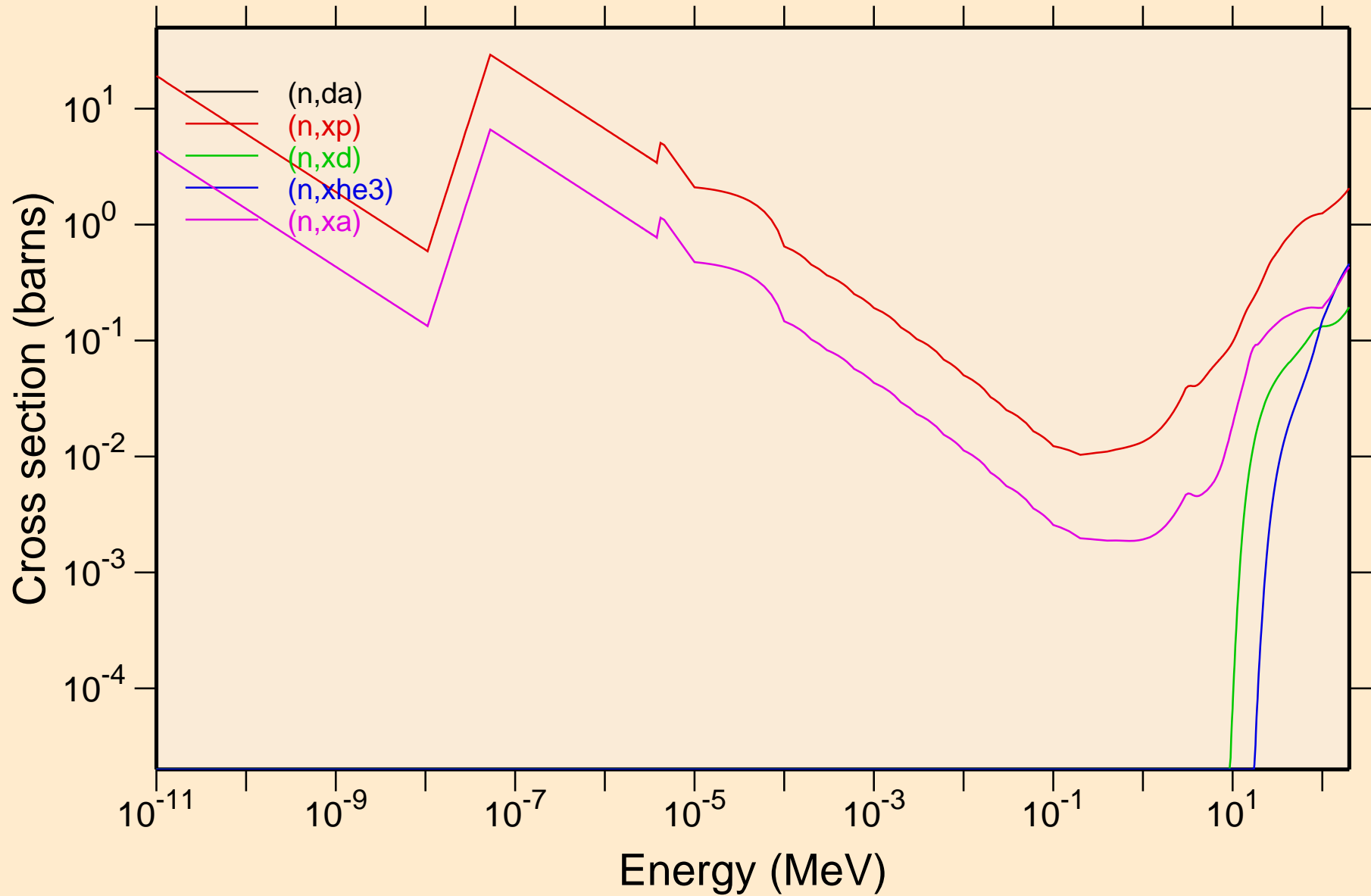
# HF165 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

## Non-threshold reactions



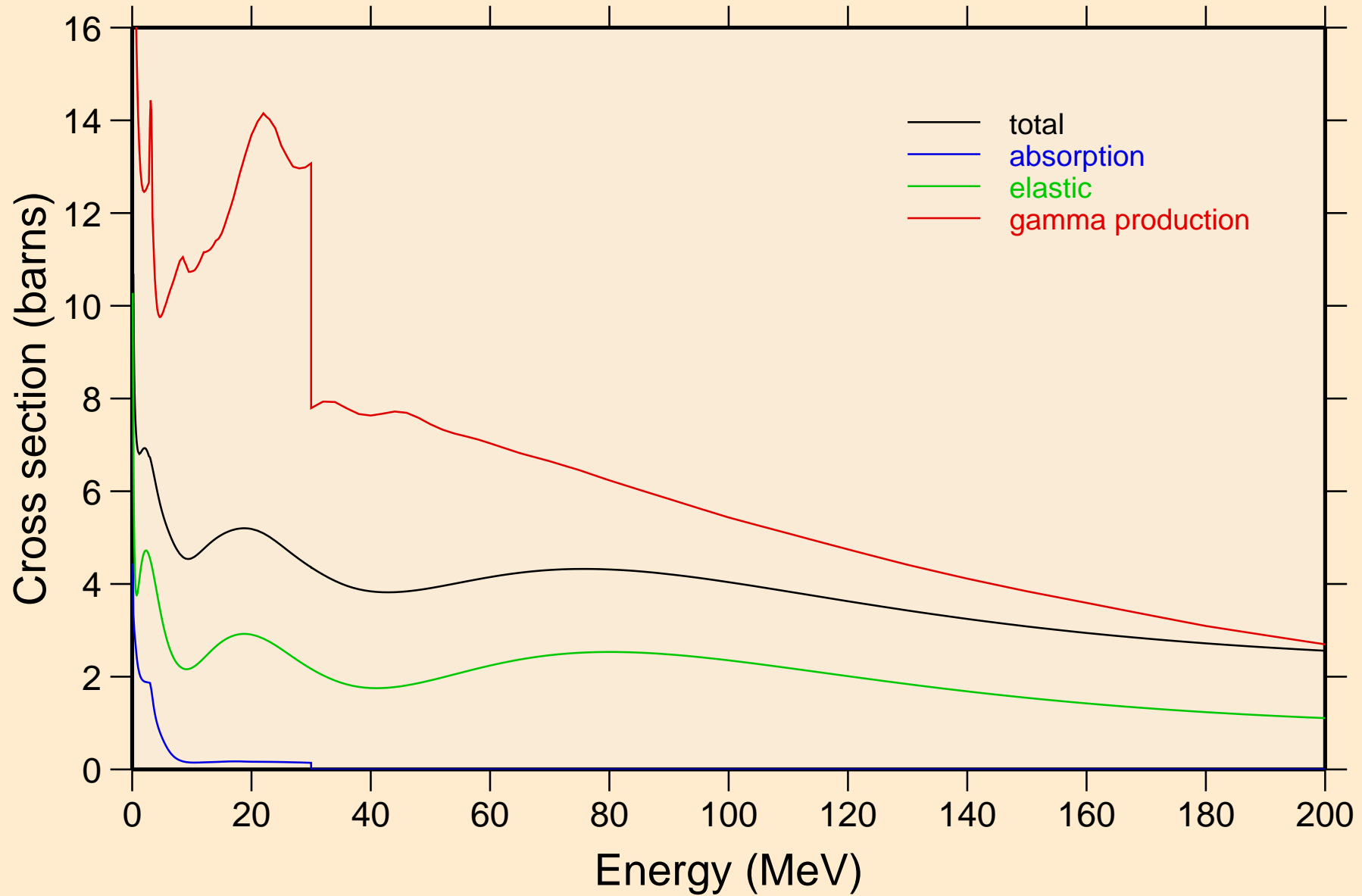
# HF165 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

## Non-threshold reactions



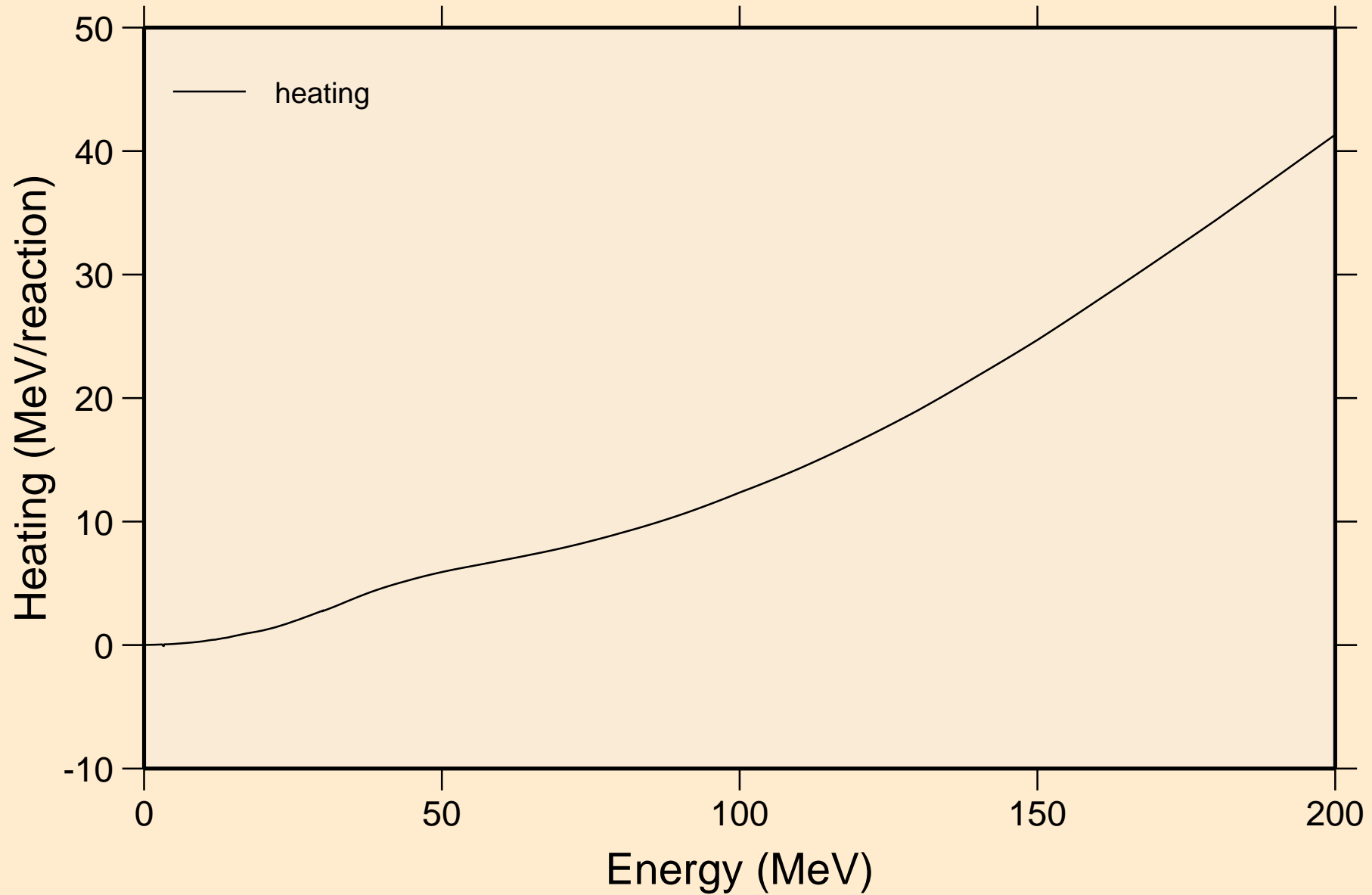
# HF165 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

## Principal cross sections



# HF165 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

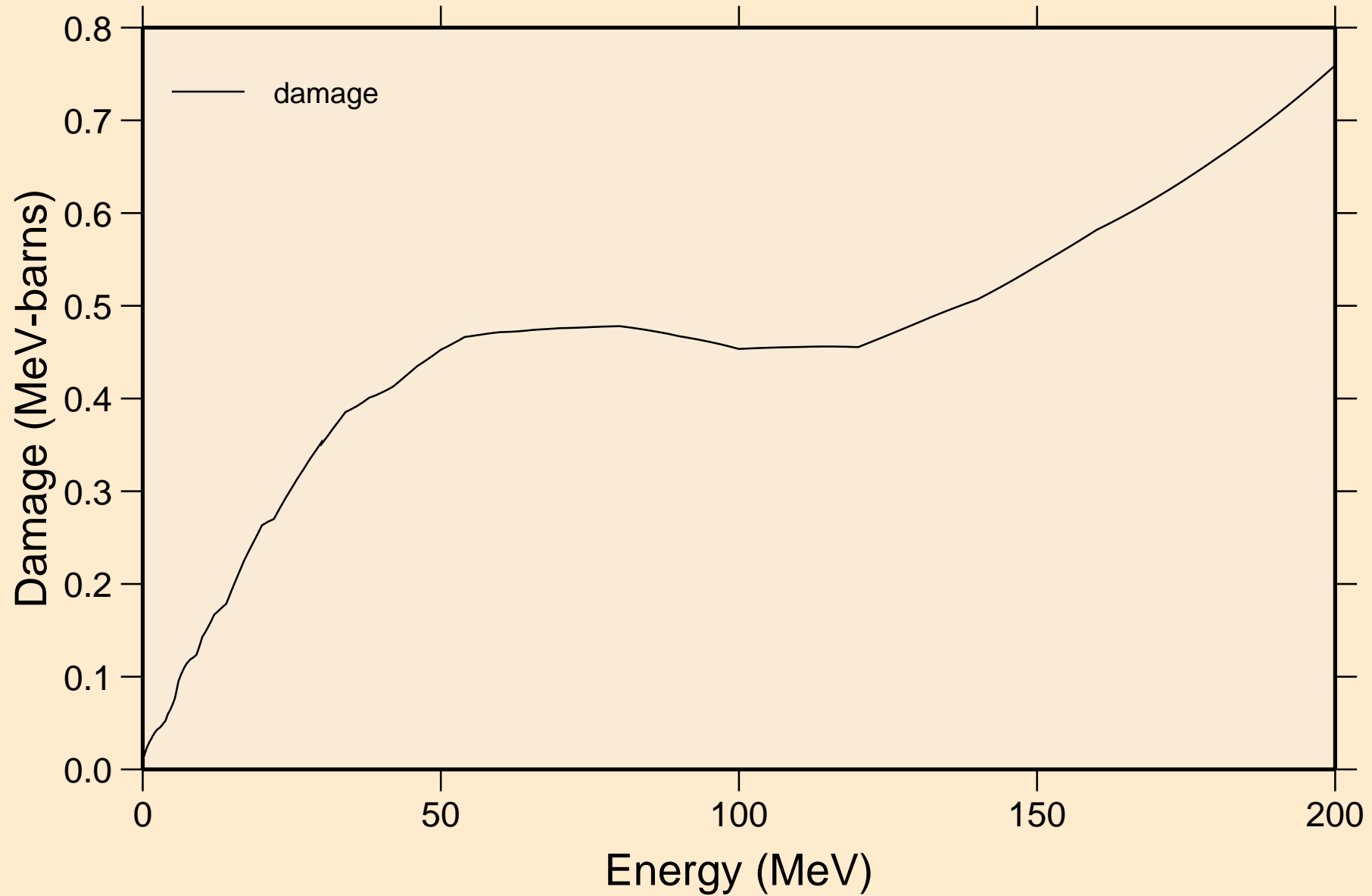
## Heating





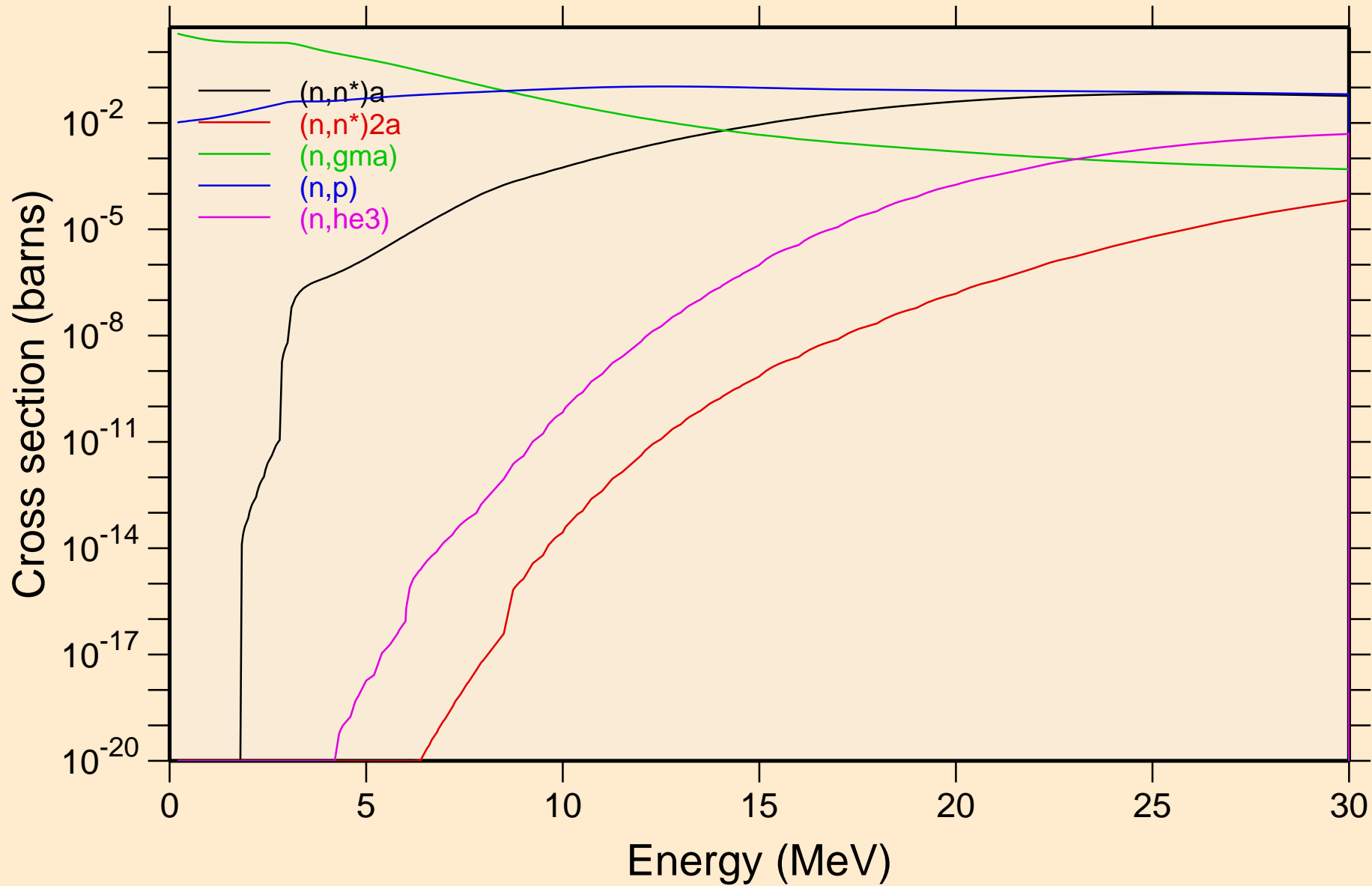
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## Damage



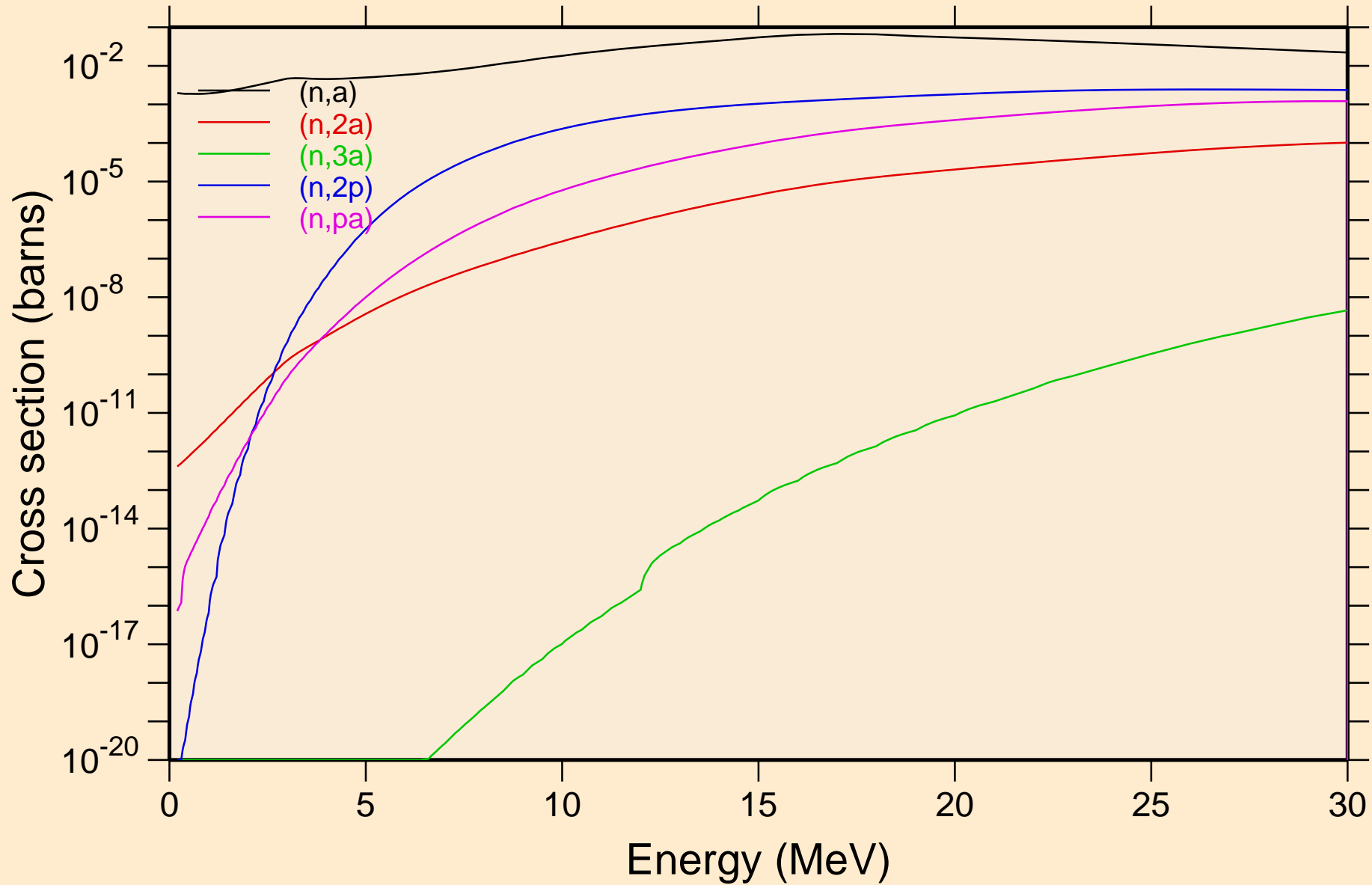
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## Non-threshold reactions



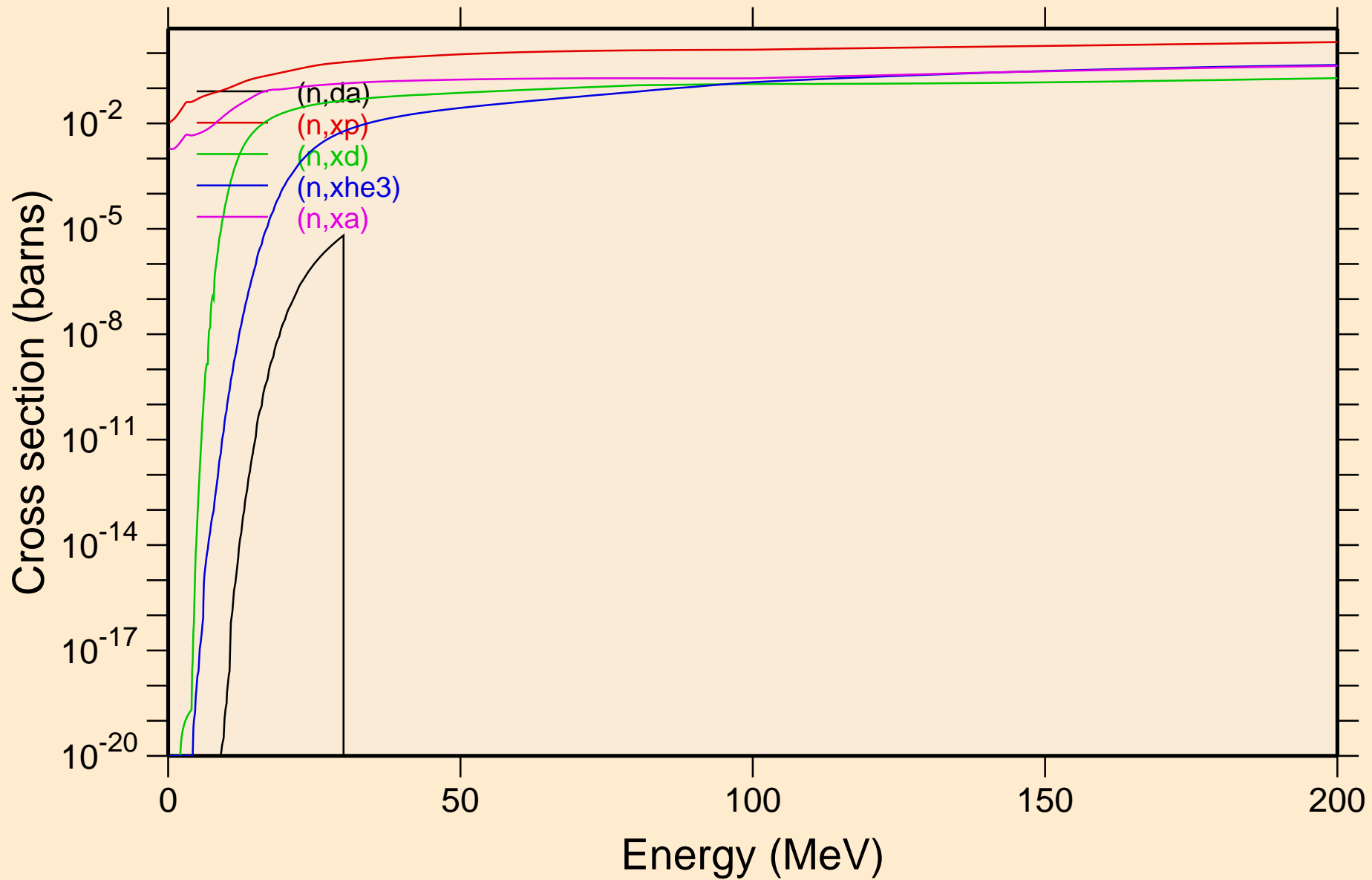
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## Non-threshold reactions



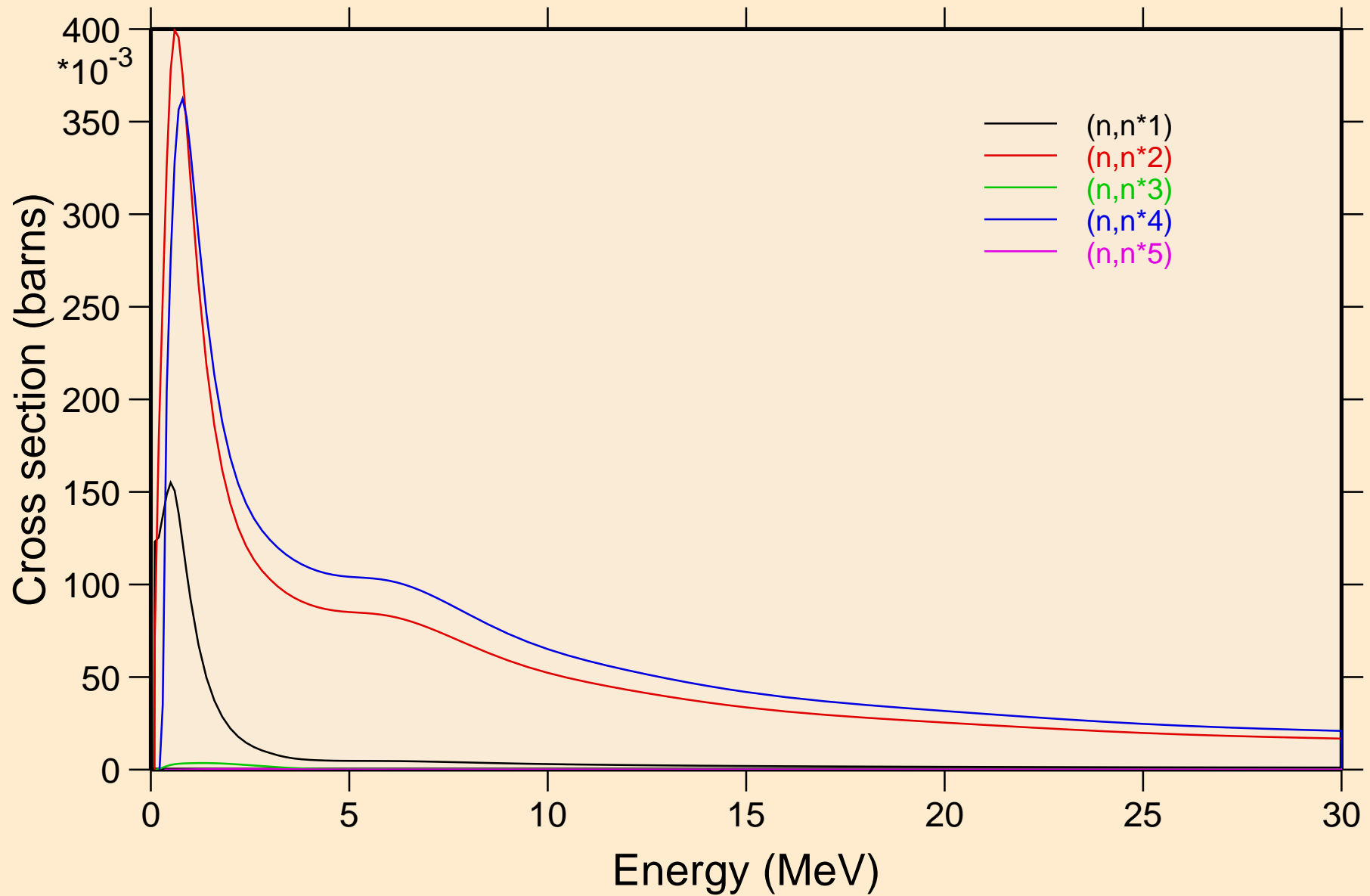
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## Non-threshold reactions

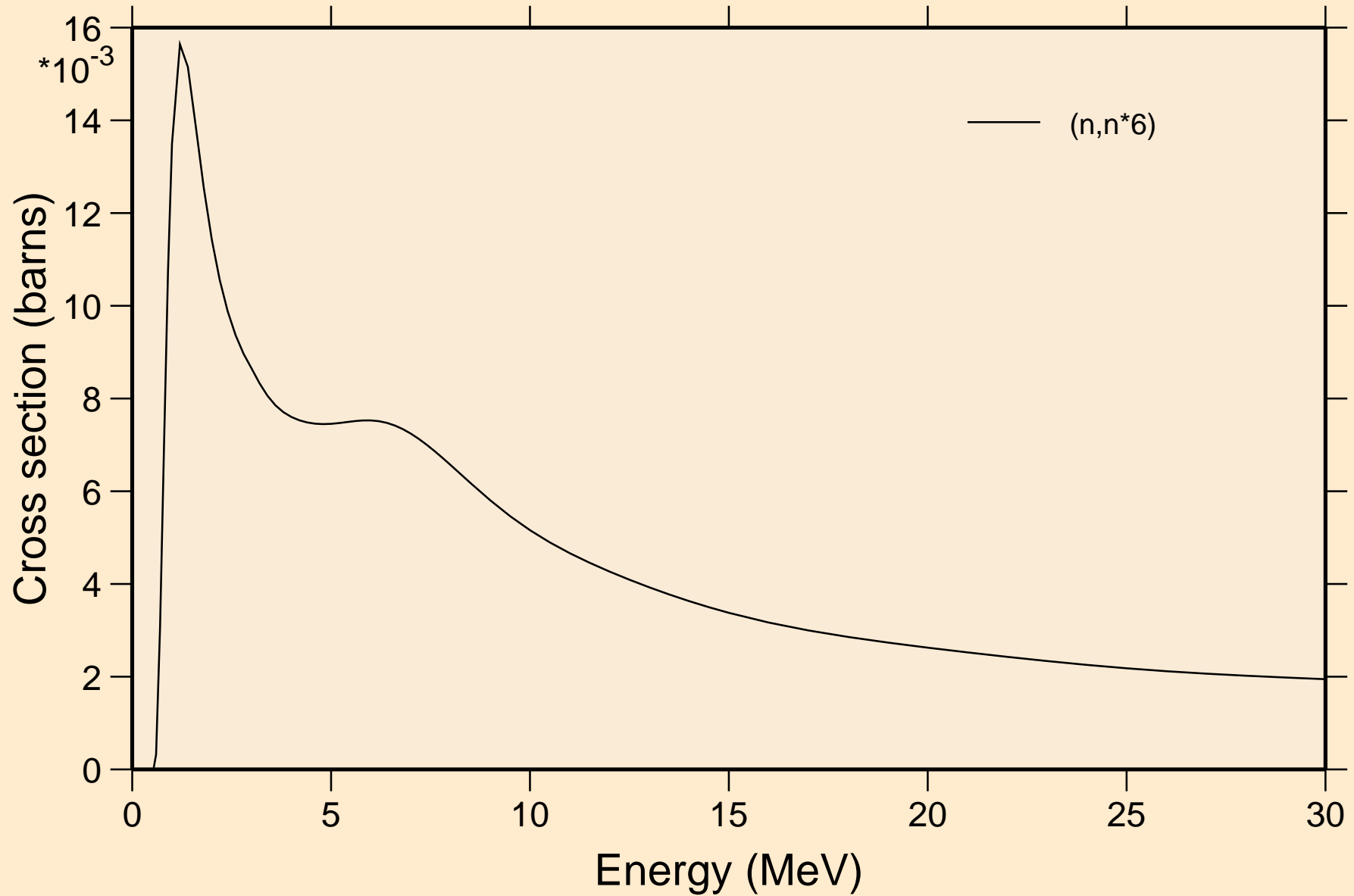


# HF165 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

## Inelastic levels

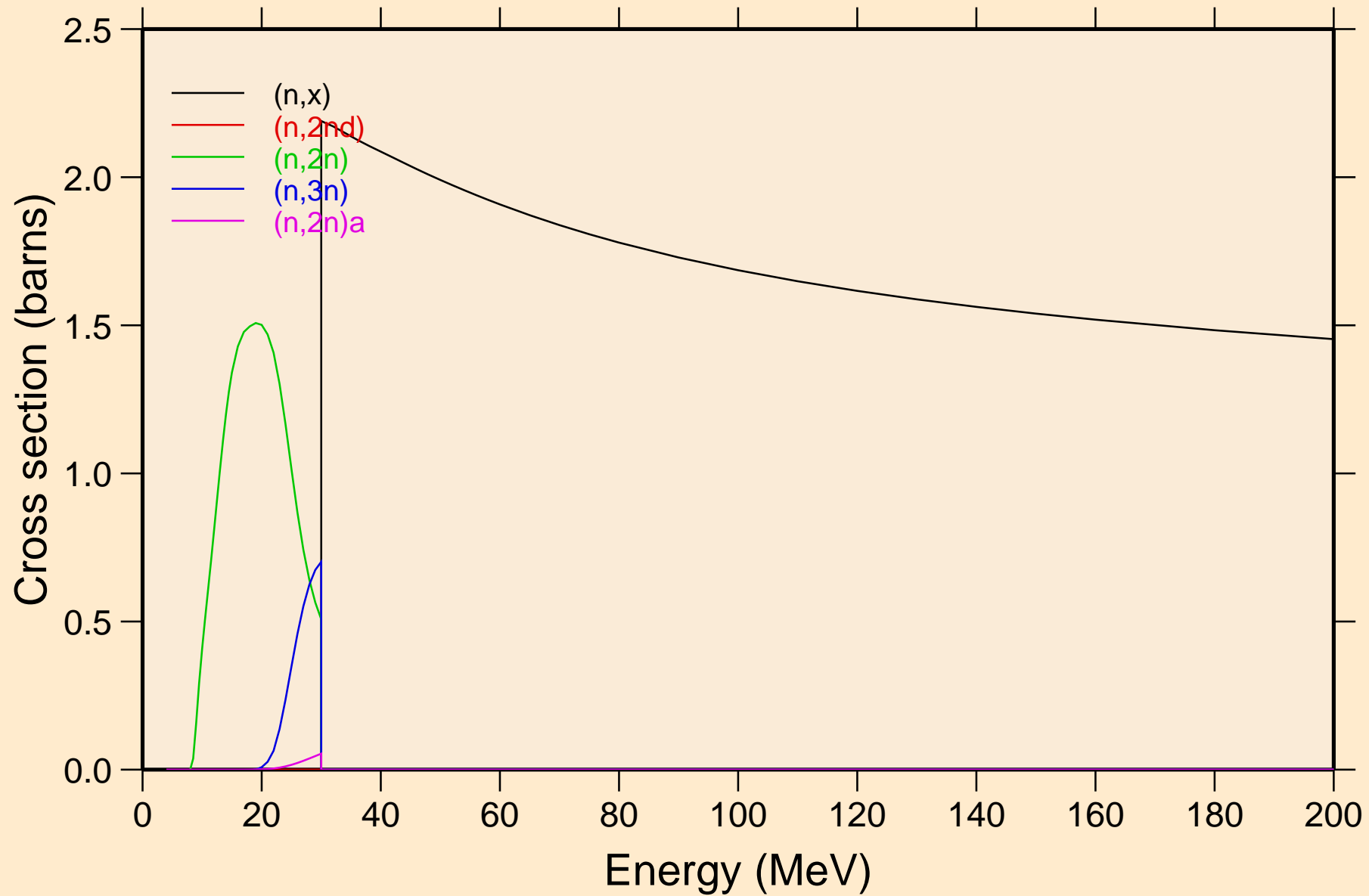


HF165 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Inelastic levels



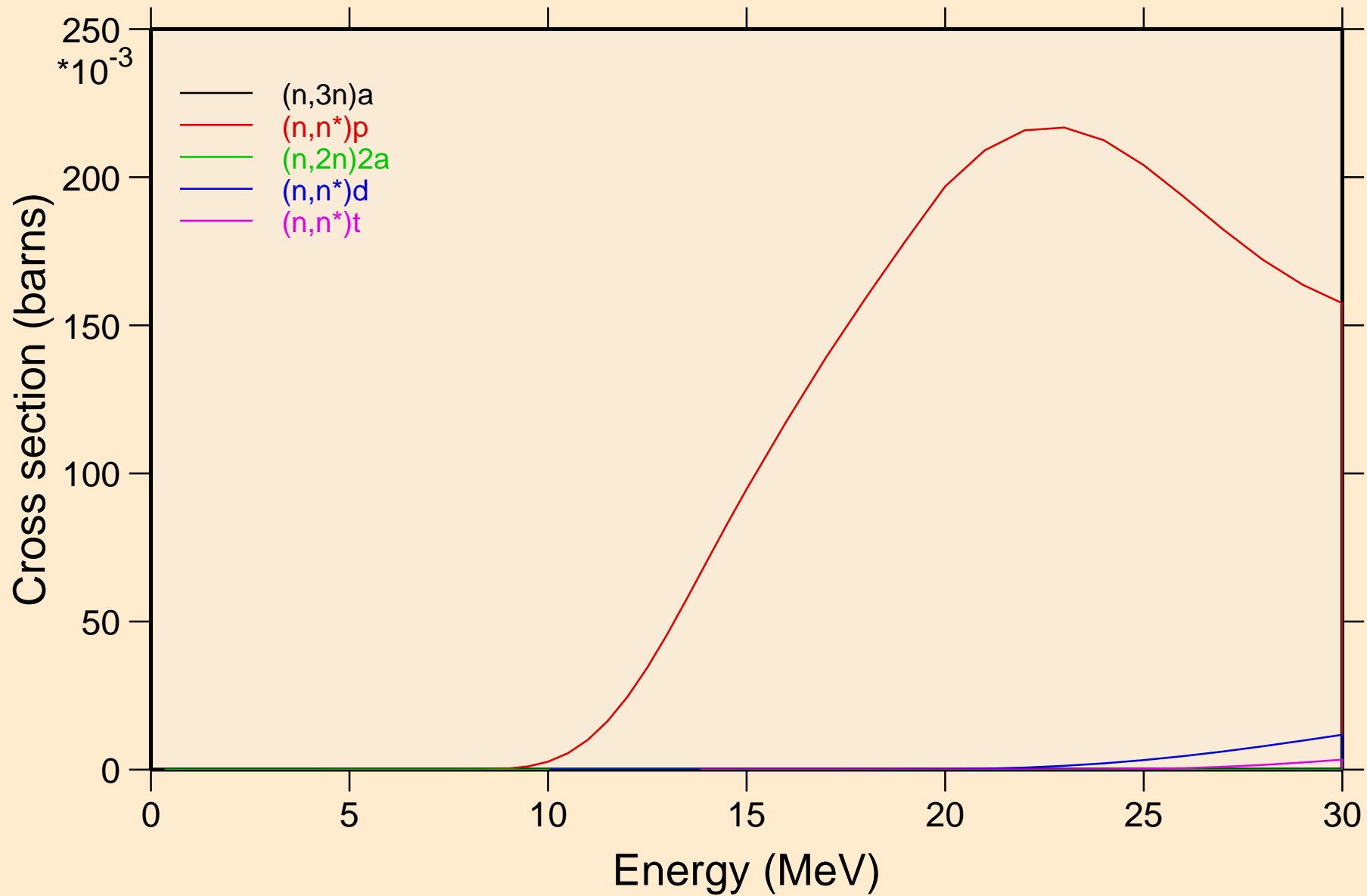
# HF165 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

## Threshold reactions



# HF165 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

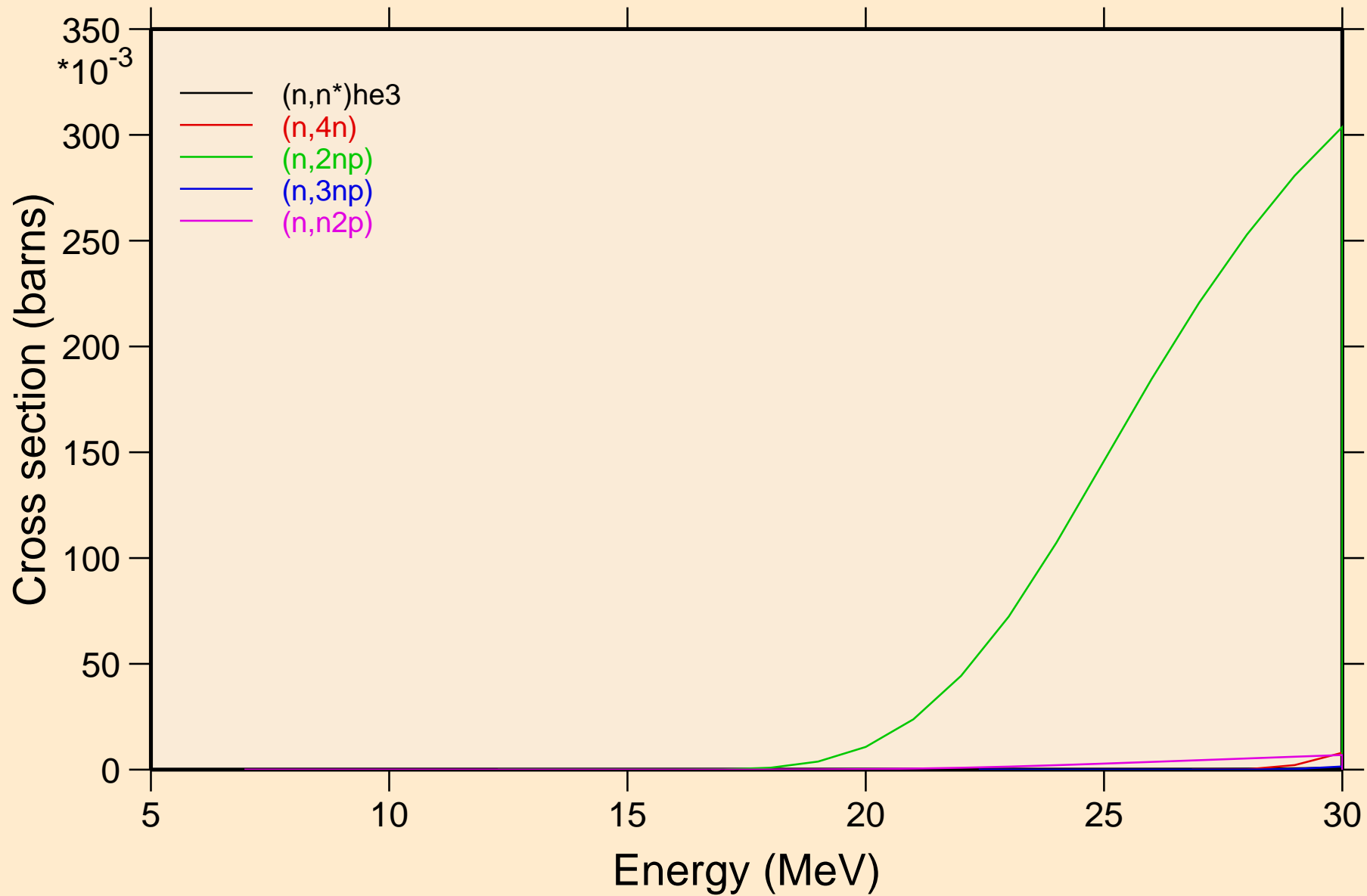
## Threshold reactions





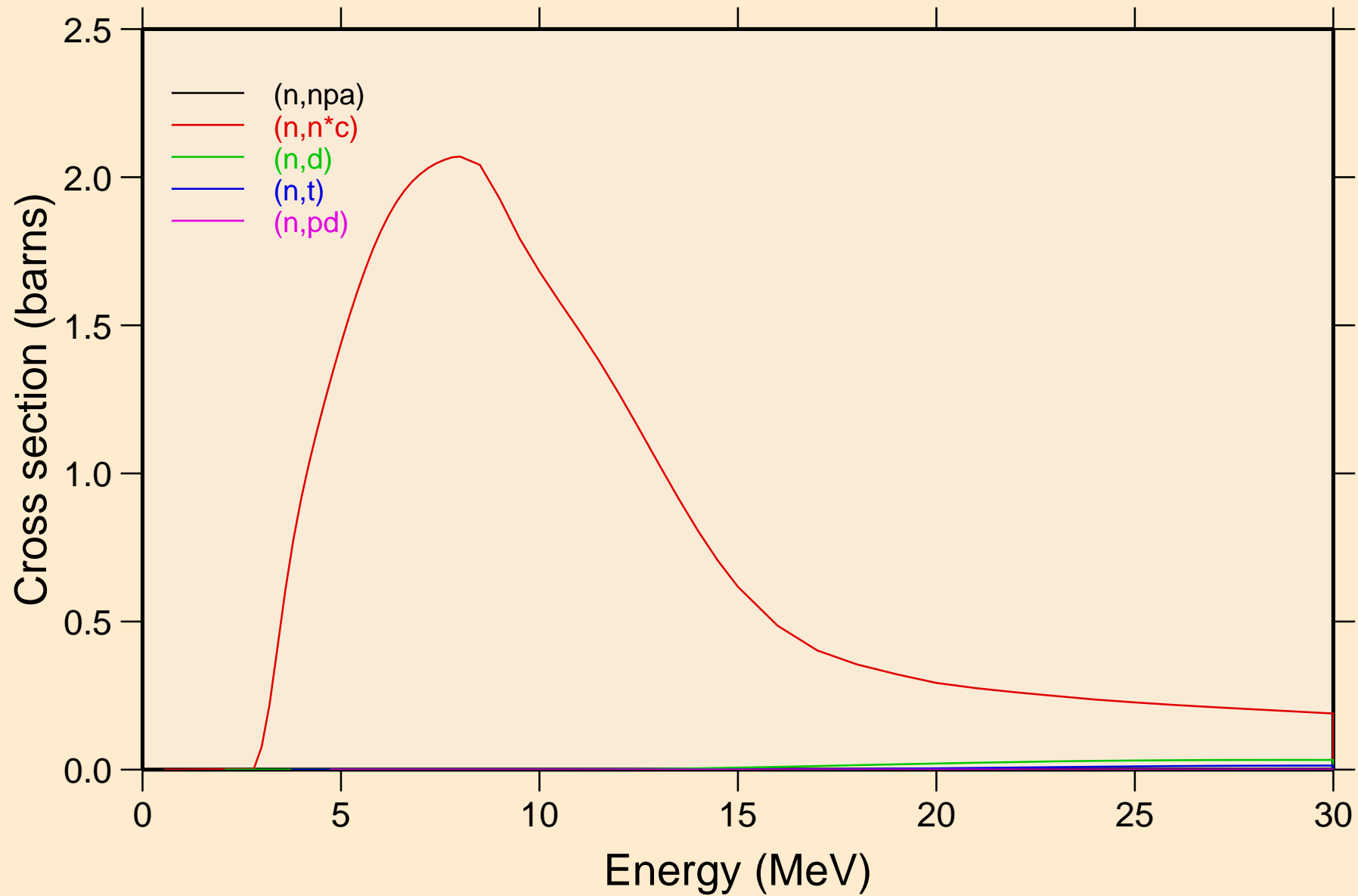
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## Threshold reactions



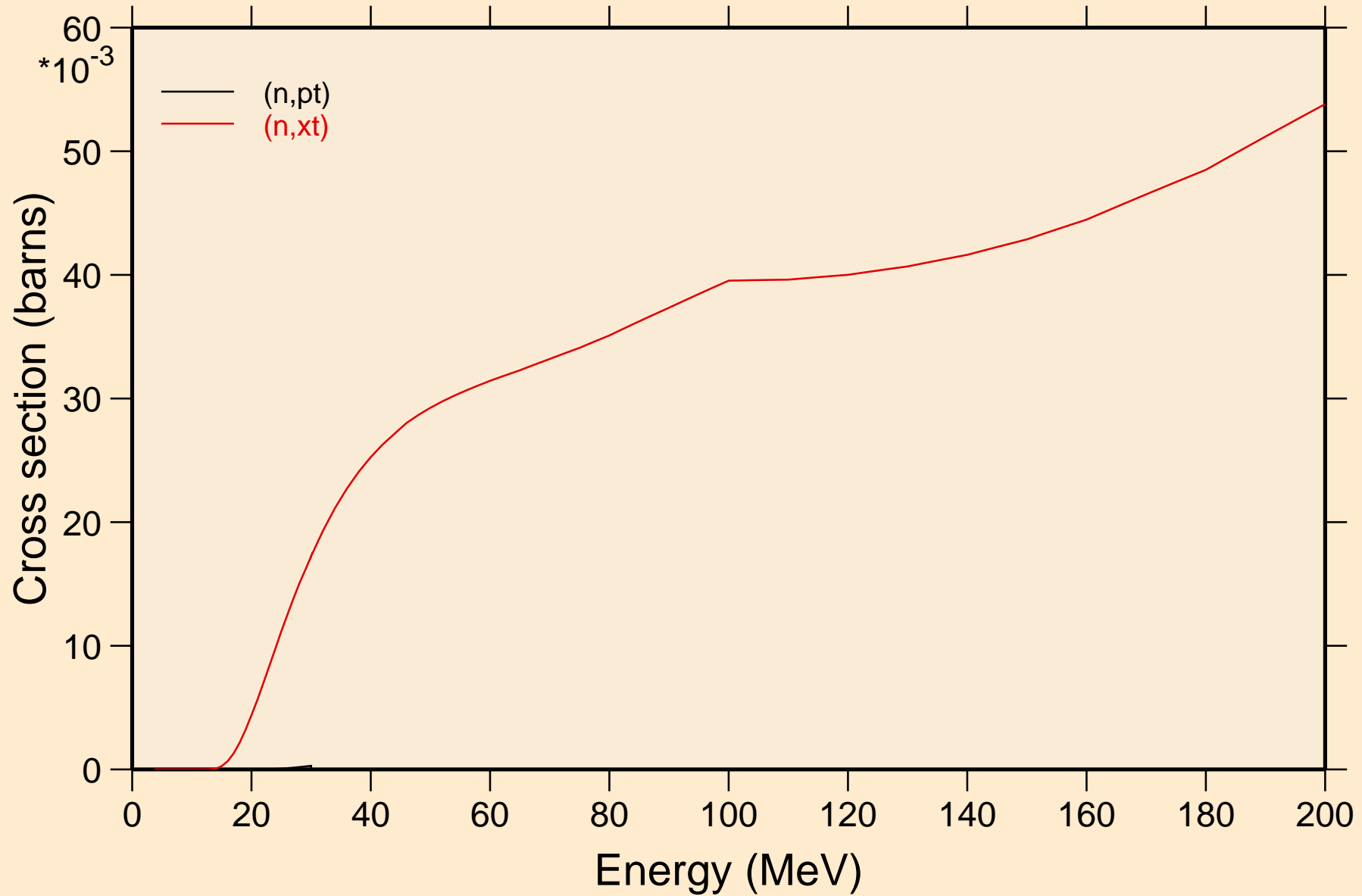
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## Threshold reactions

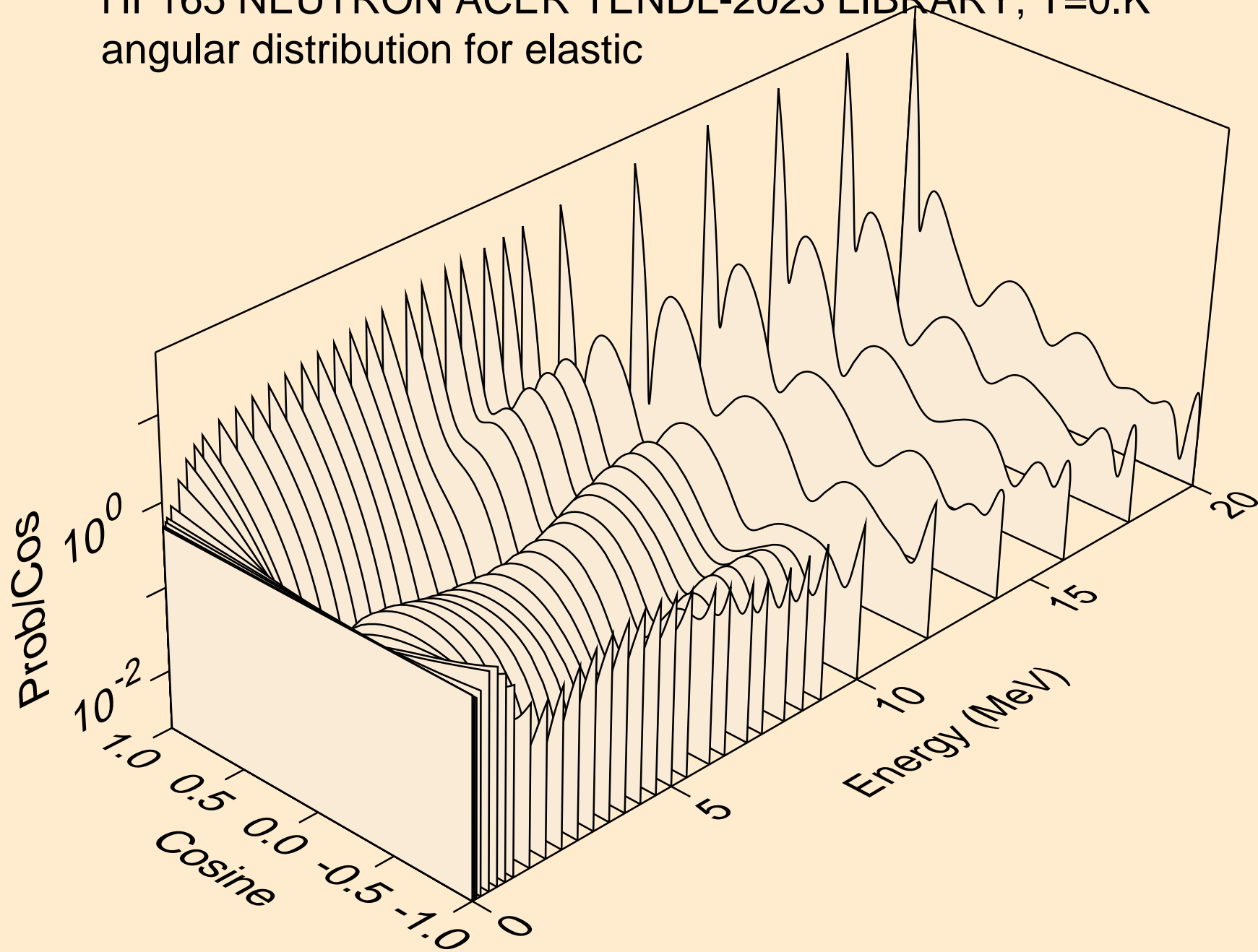


# HF165 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

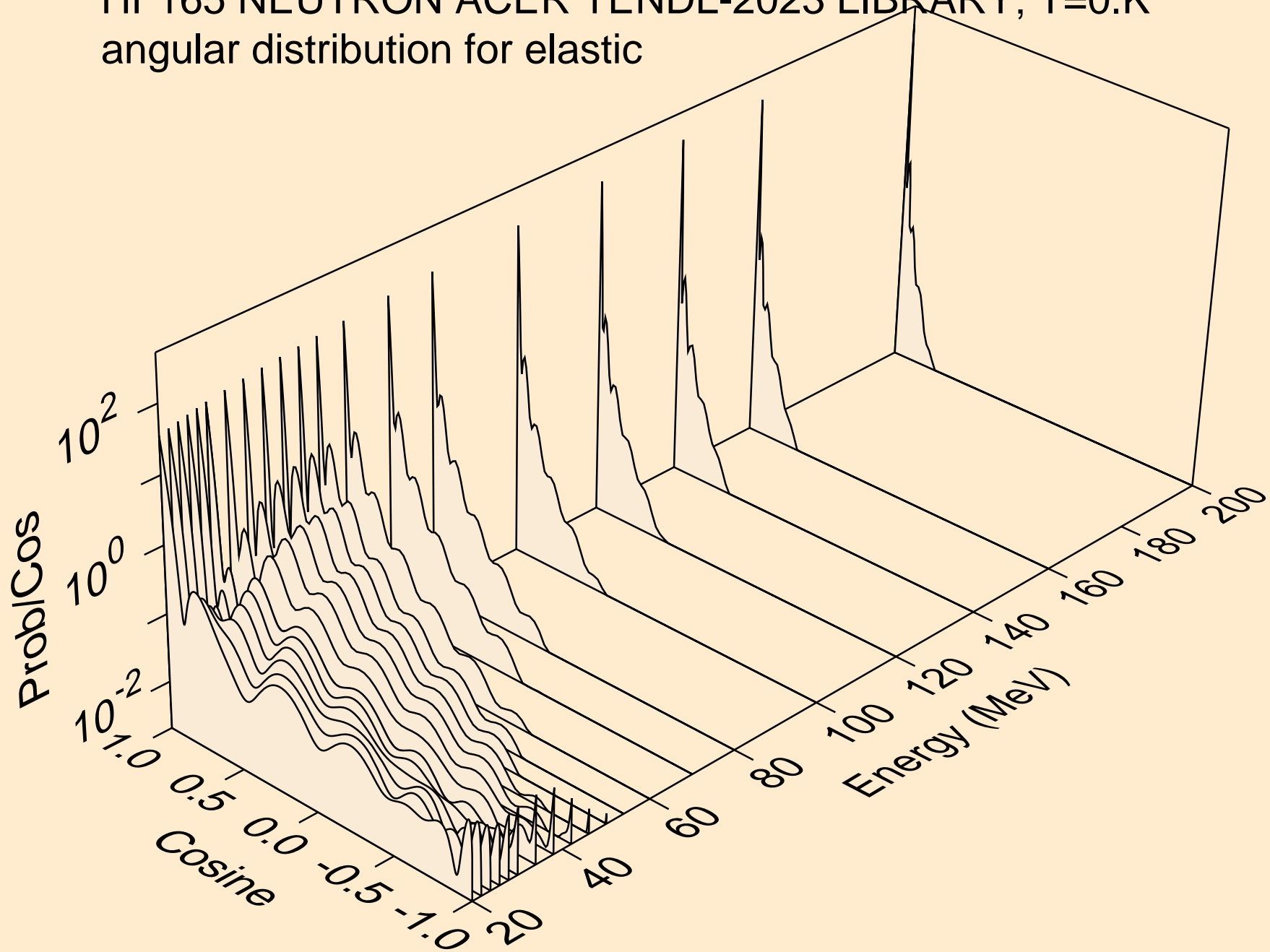
## Threshold reactions



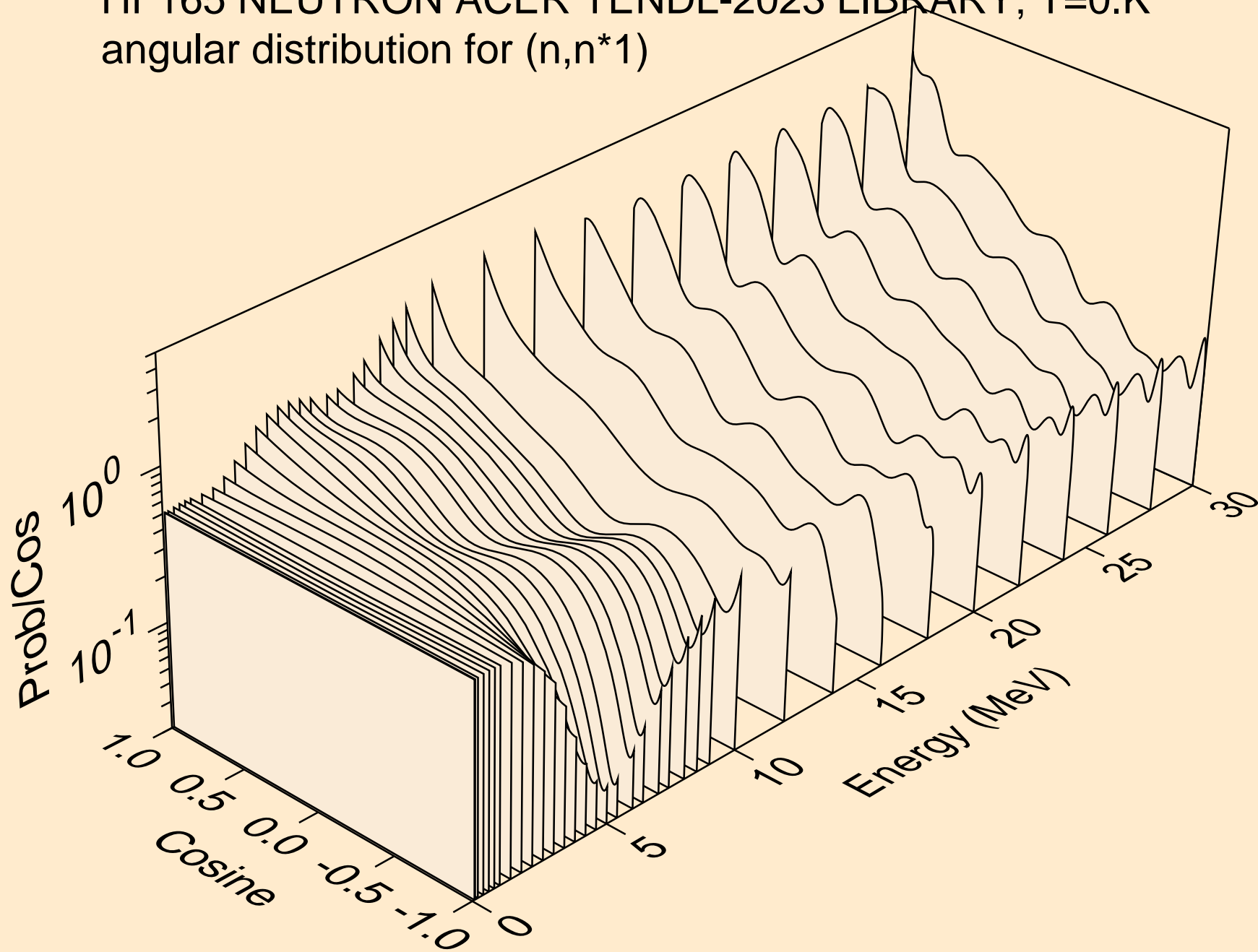
HF165 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for elastic



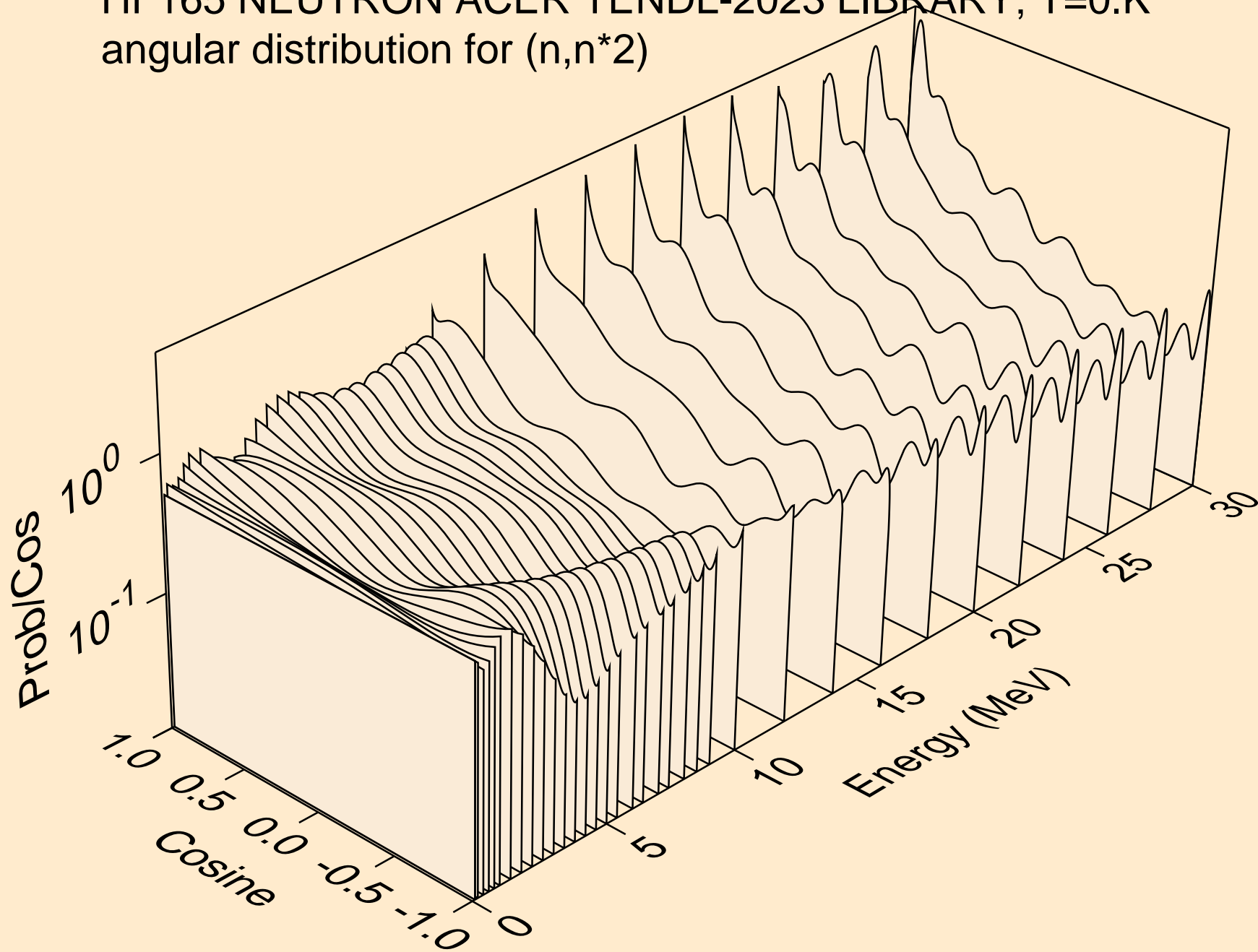
HF165 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for elastic



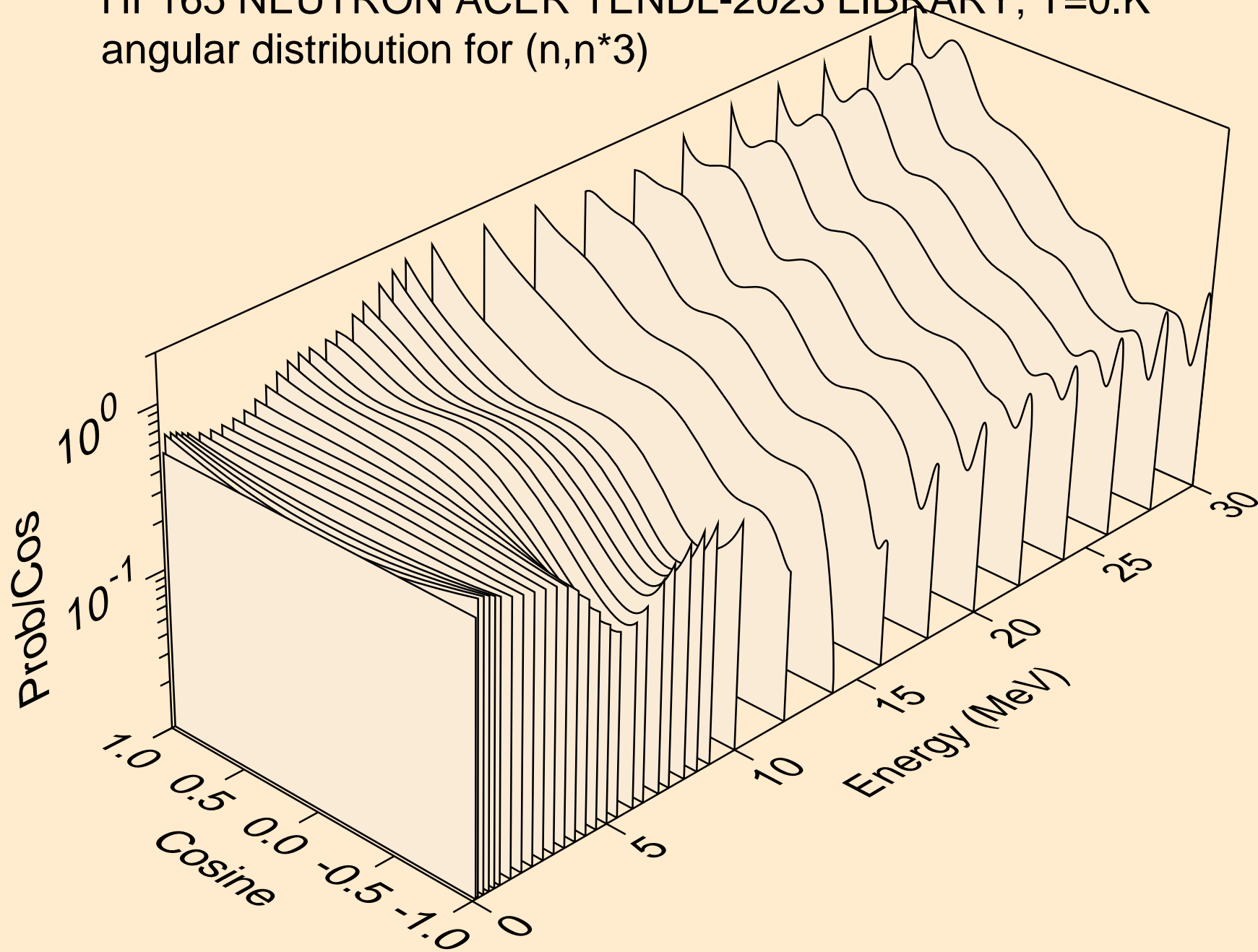
HF165 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*1)



HF165 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*2)

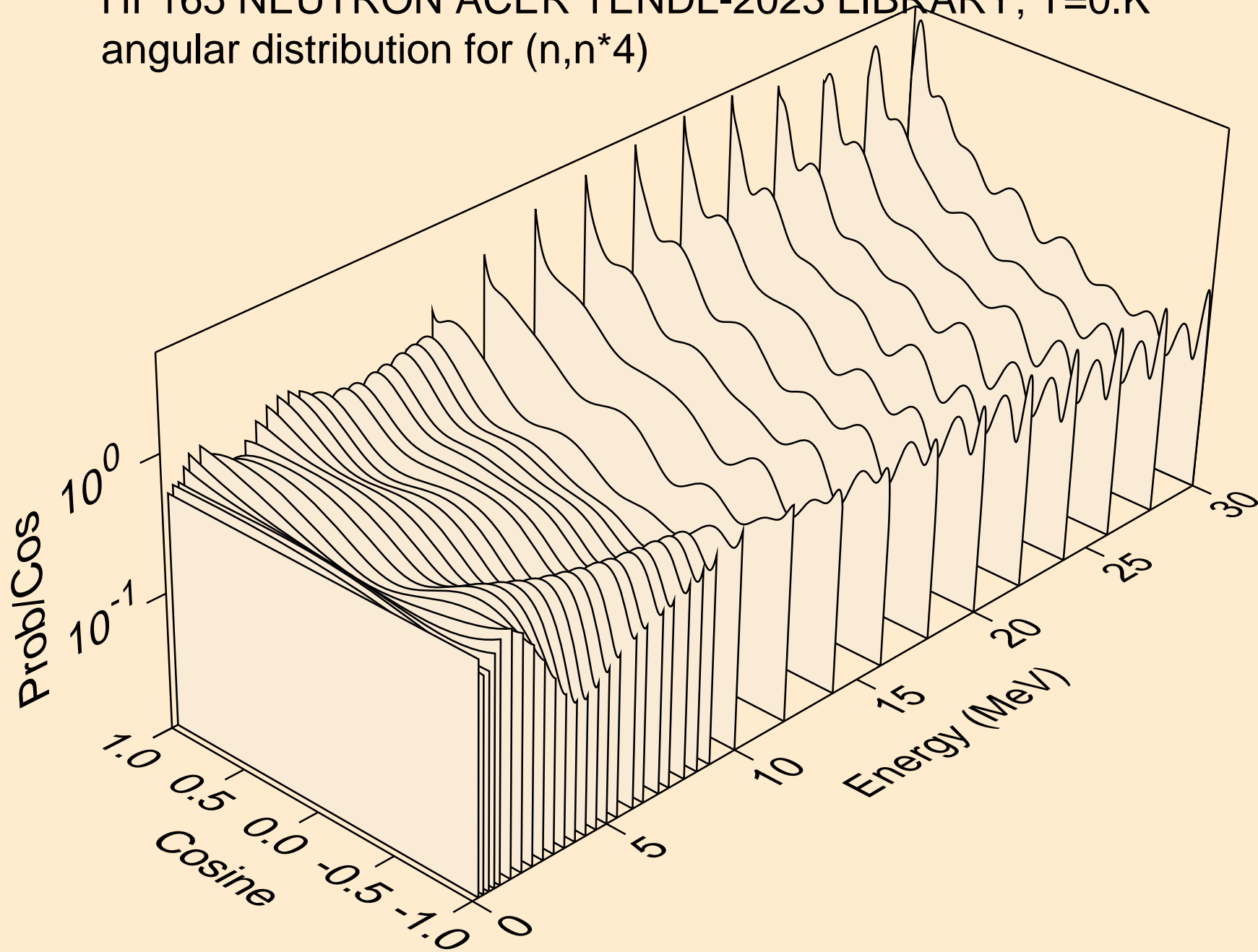


HF165 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*3)

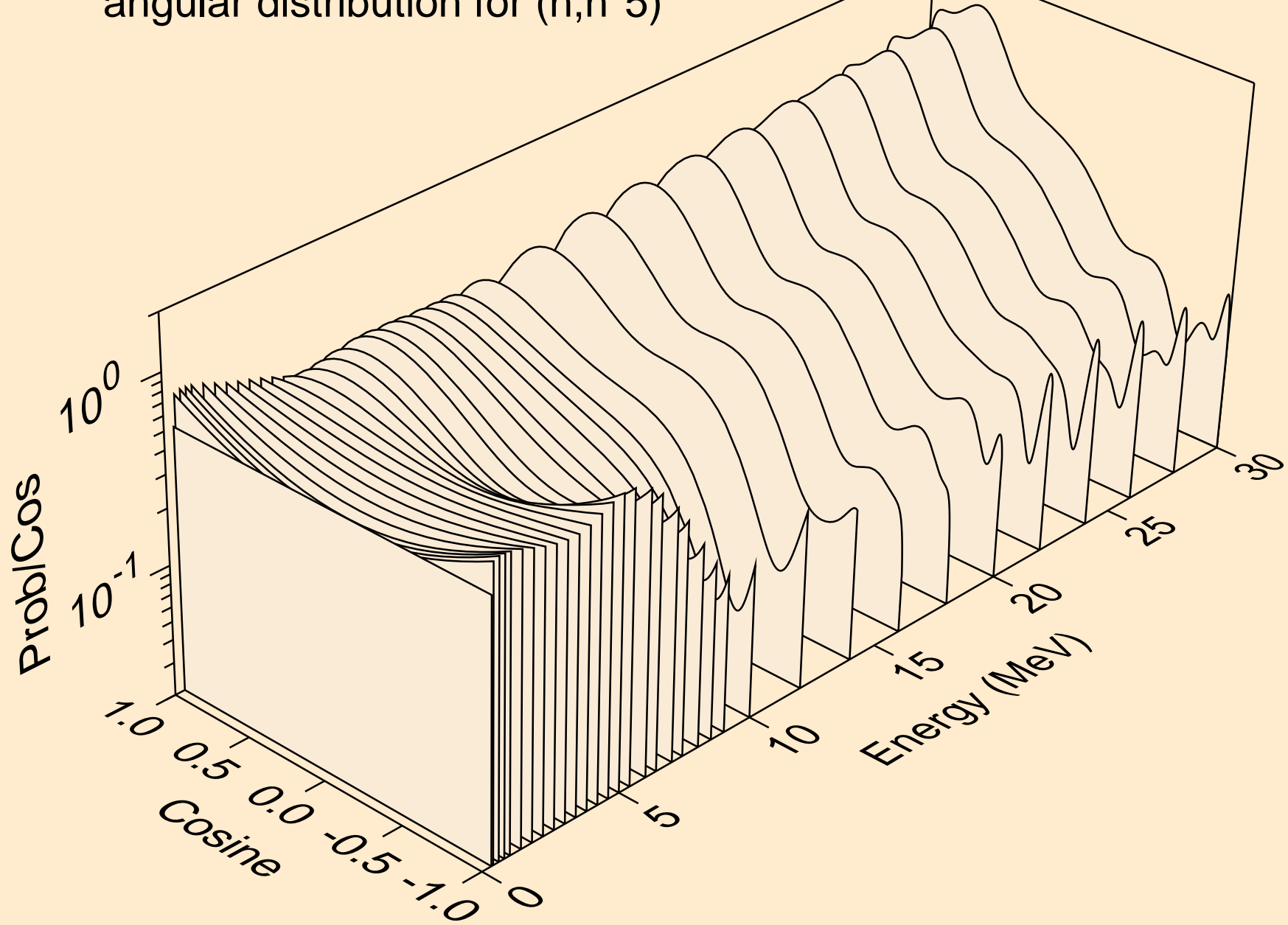




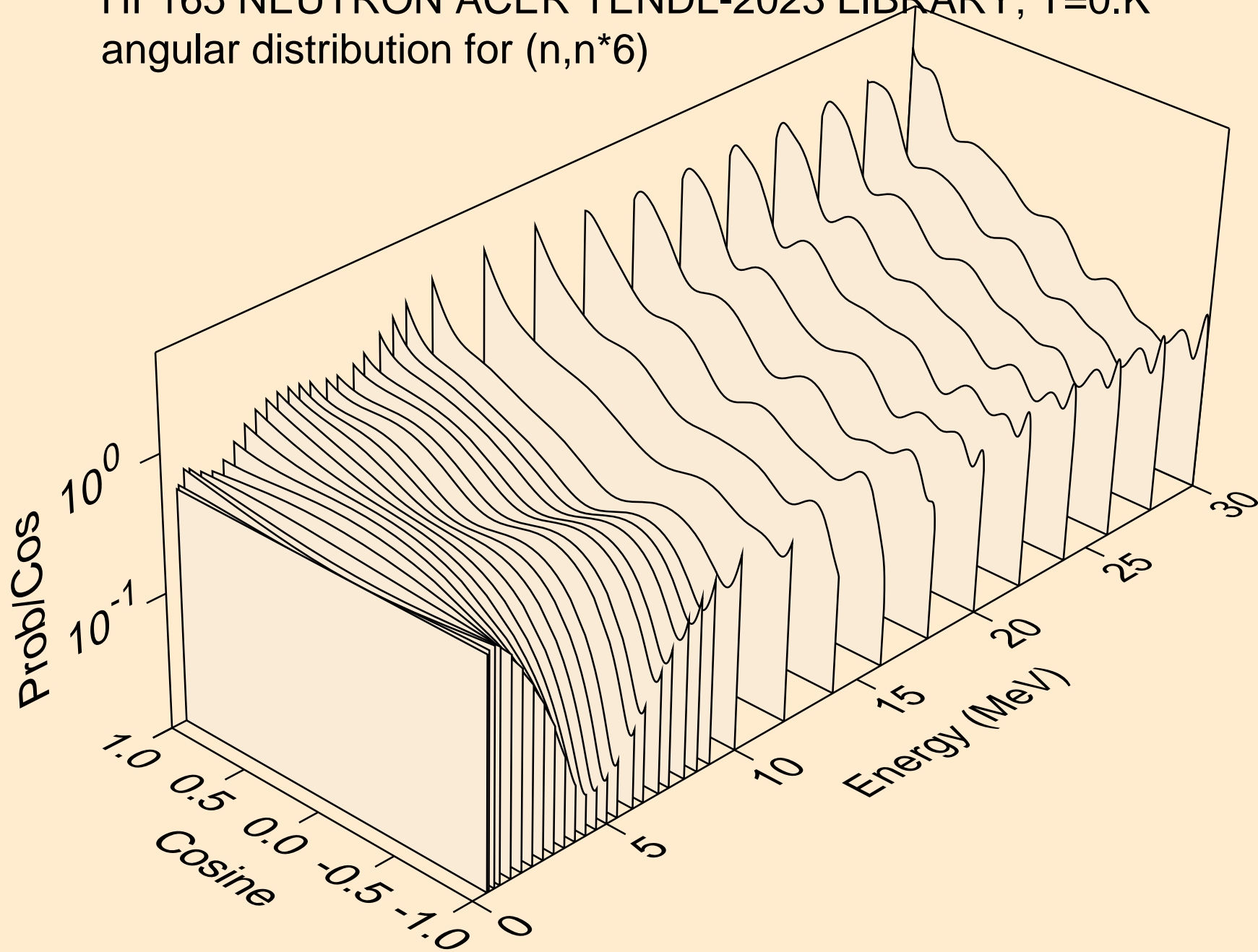
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angular distribution for (n,n\*4)



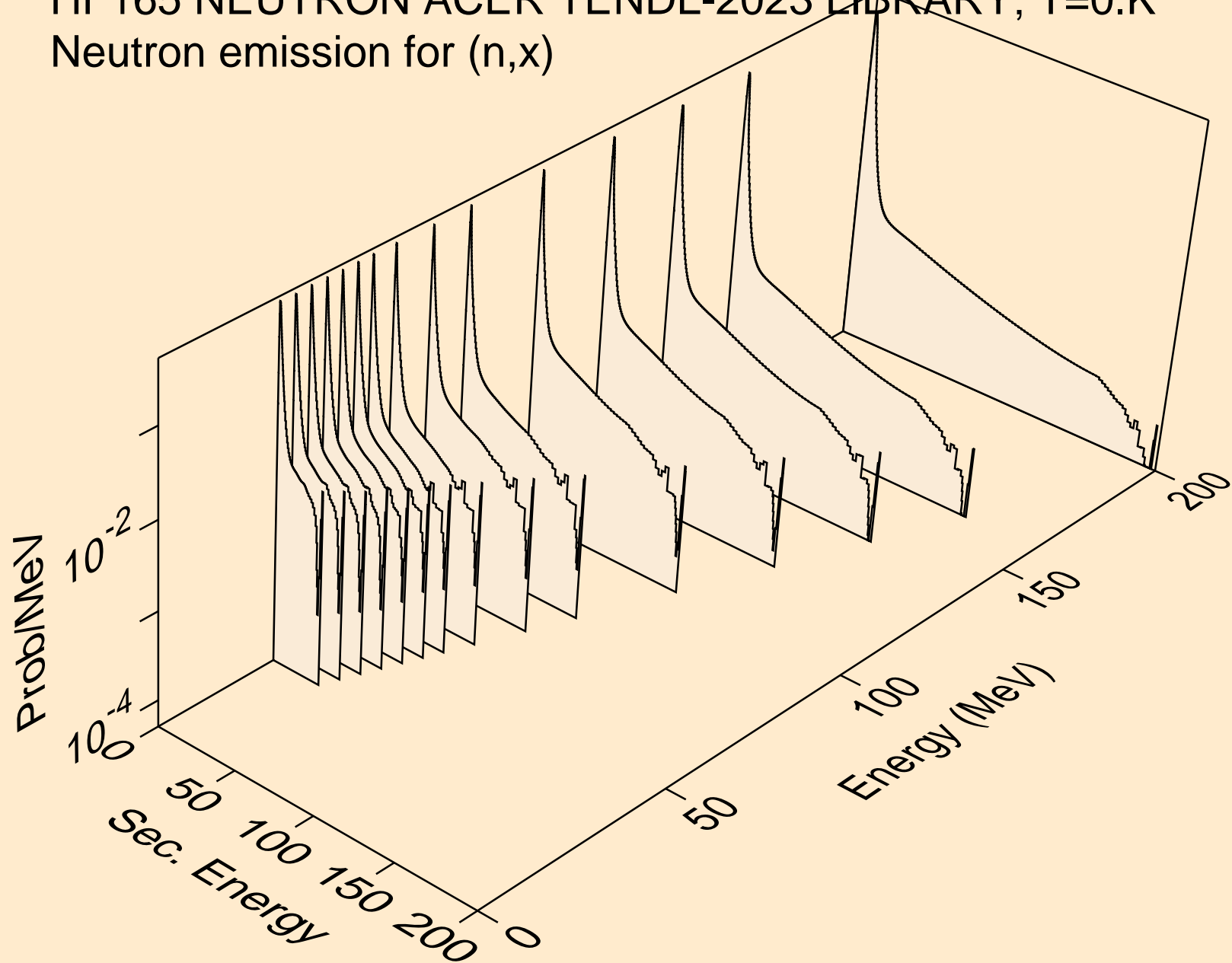
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angular distribution for (n,n\*5)



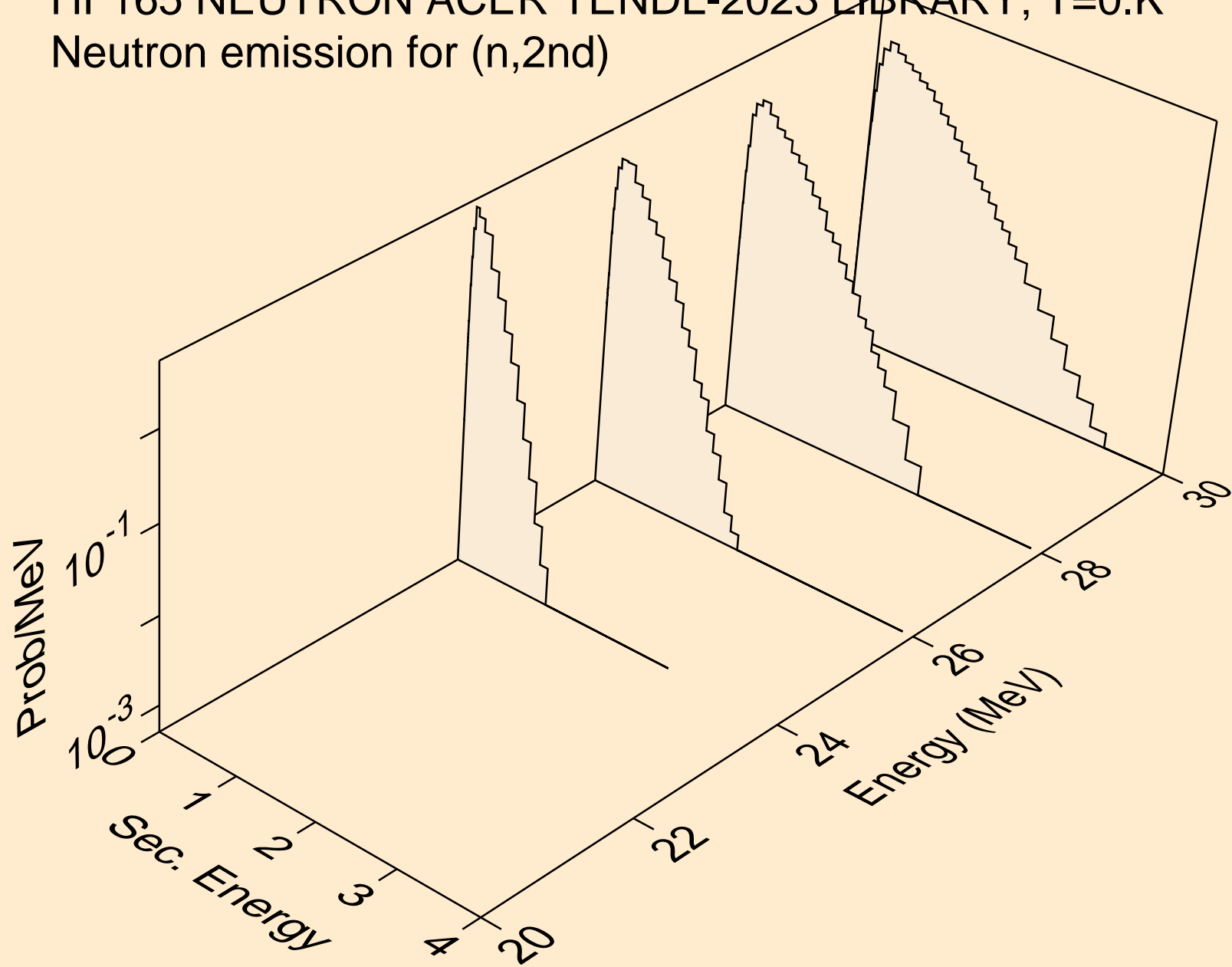
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angular distribution for (n,n\*6)



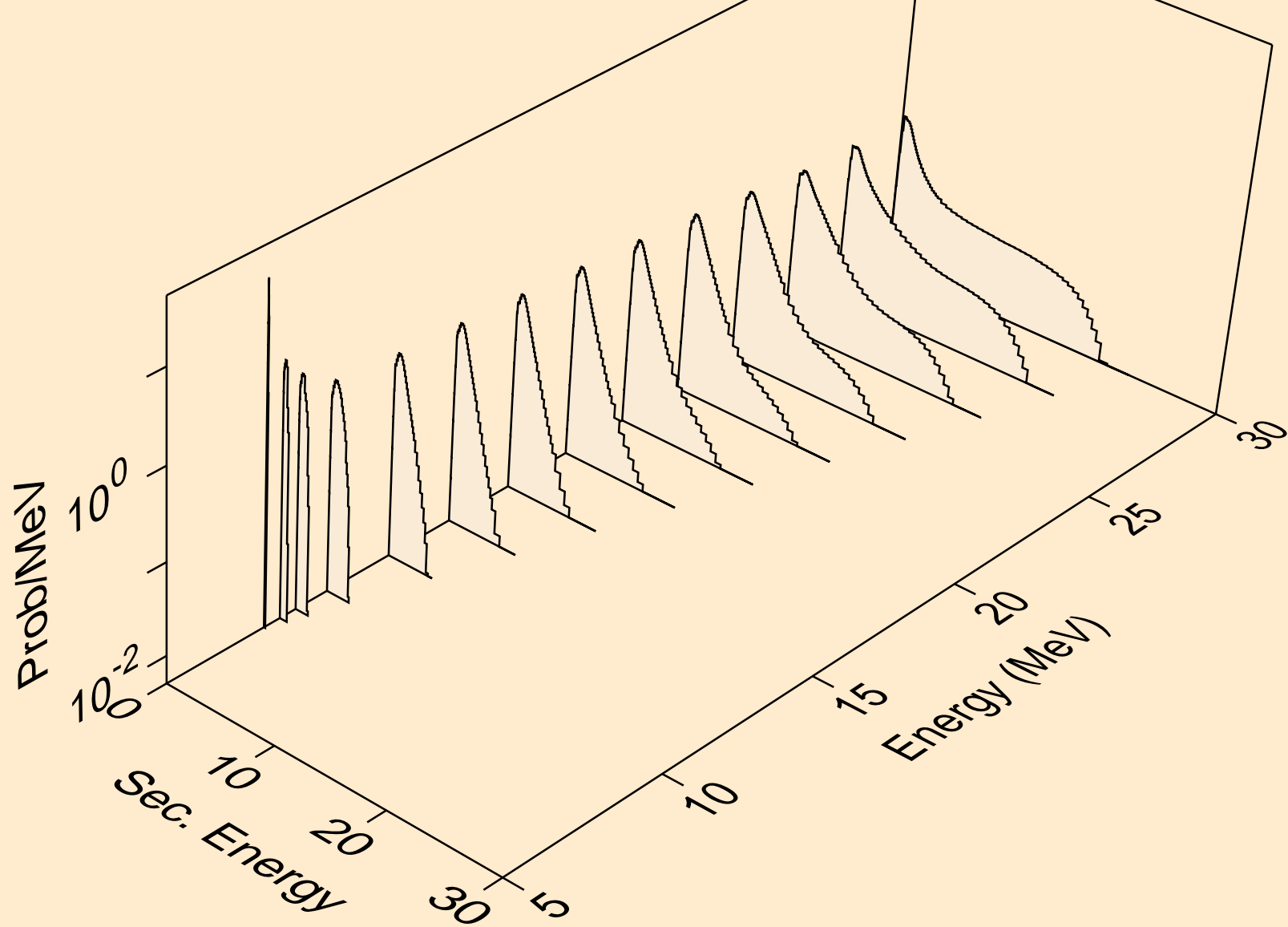
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Neutron emission for (n,x)



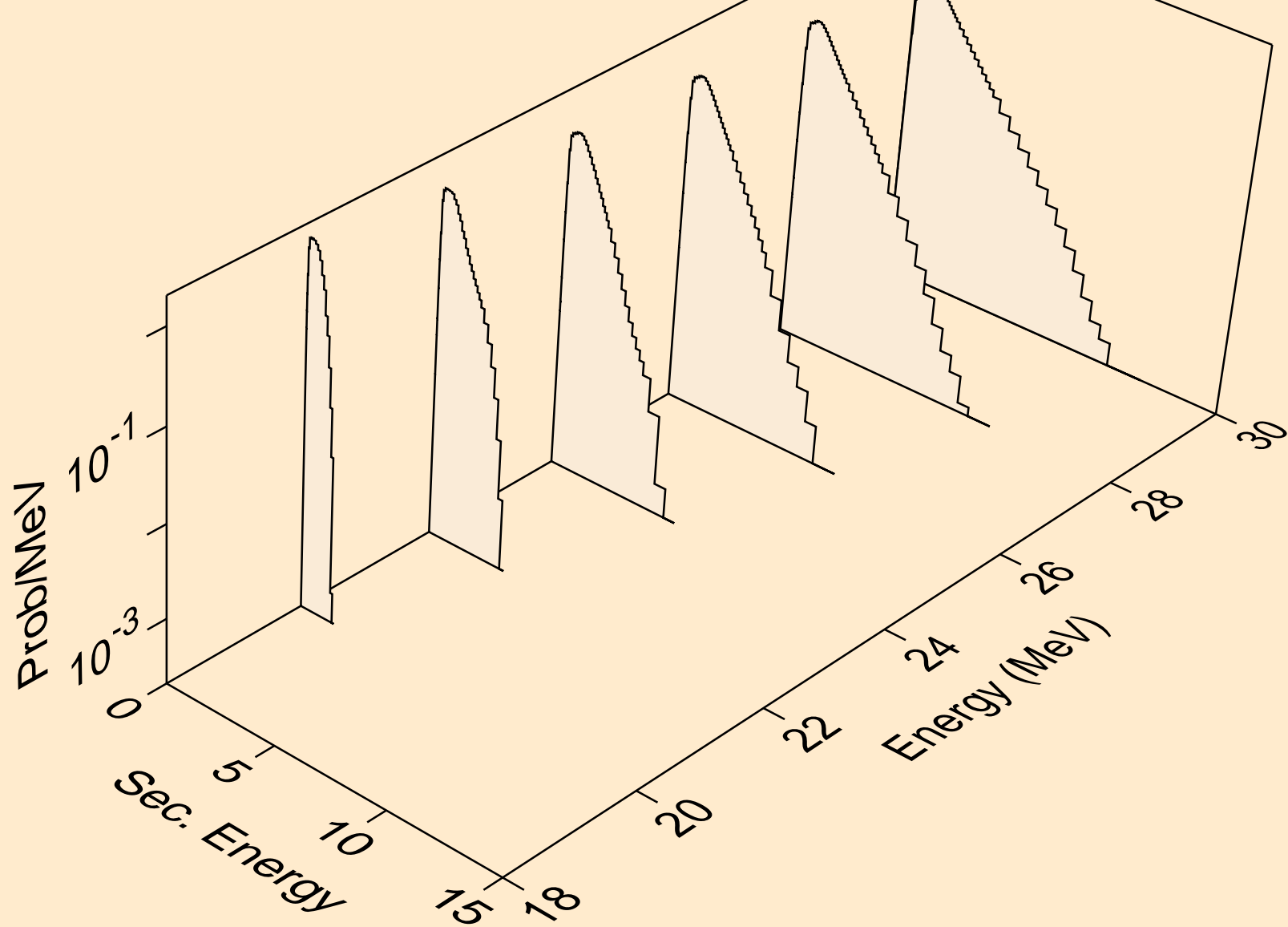
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Neutron emission for (n,2nd)



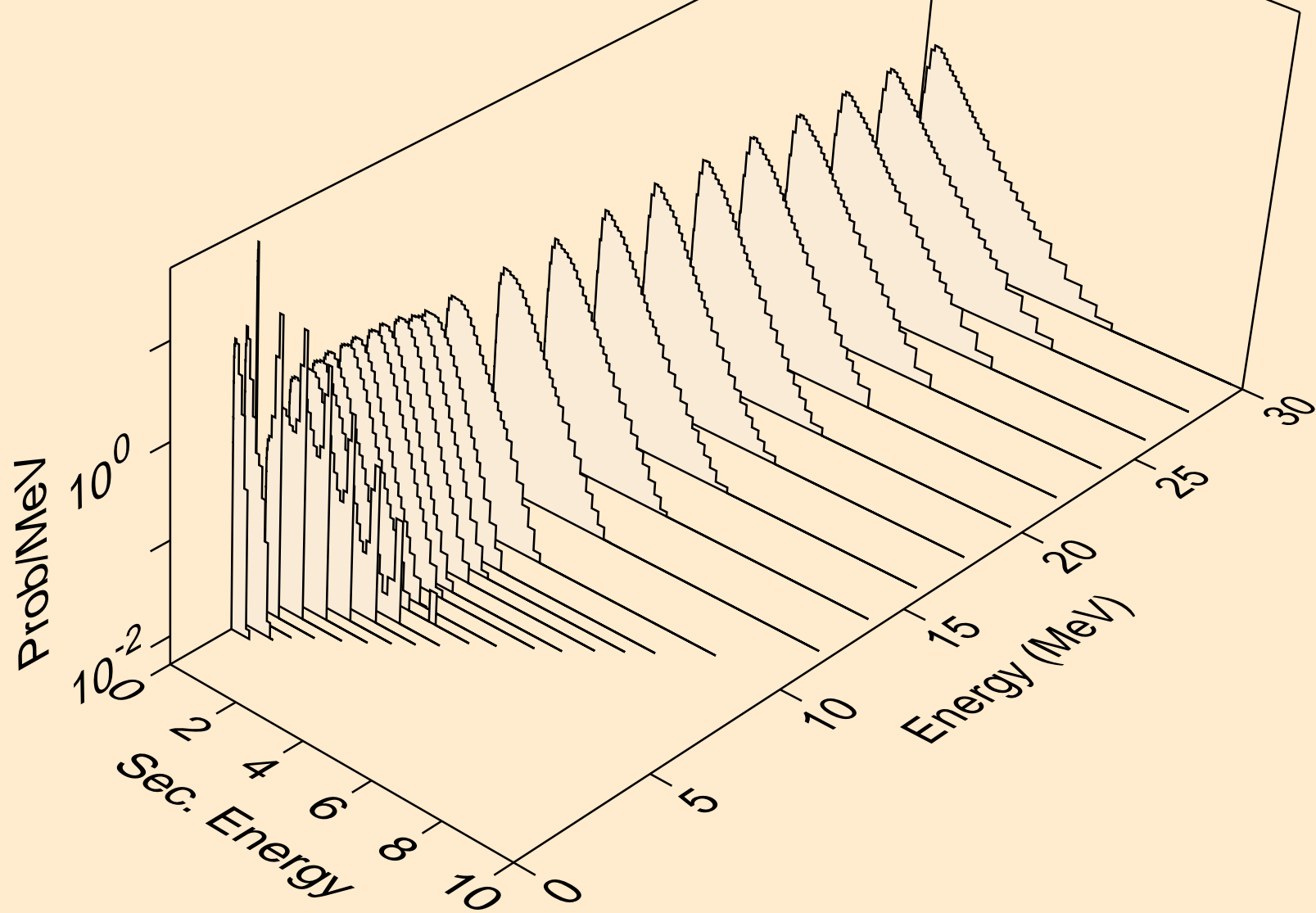
HF165 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,2n)



HF165 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,3n)

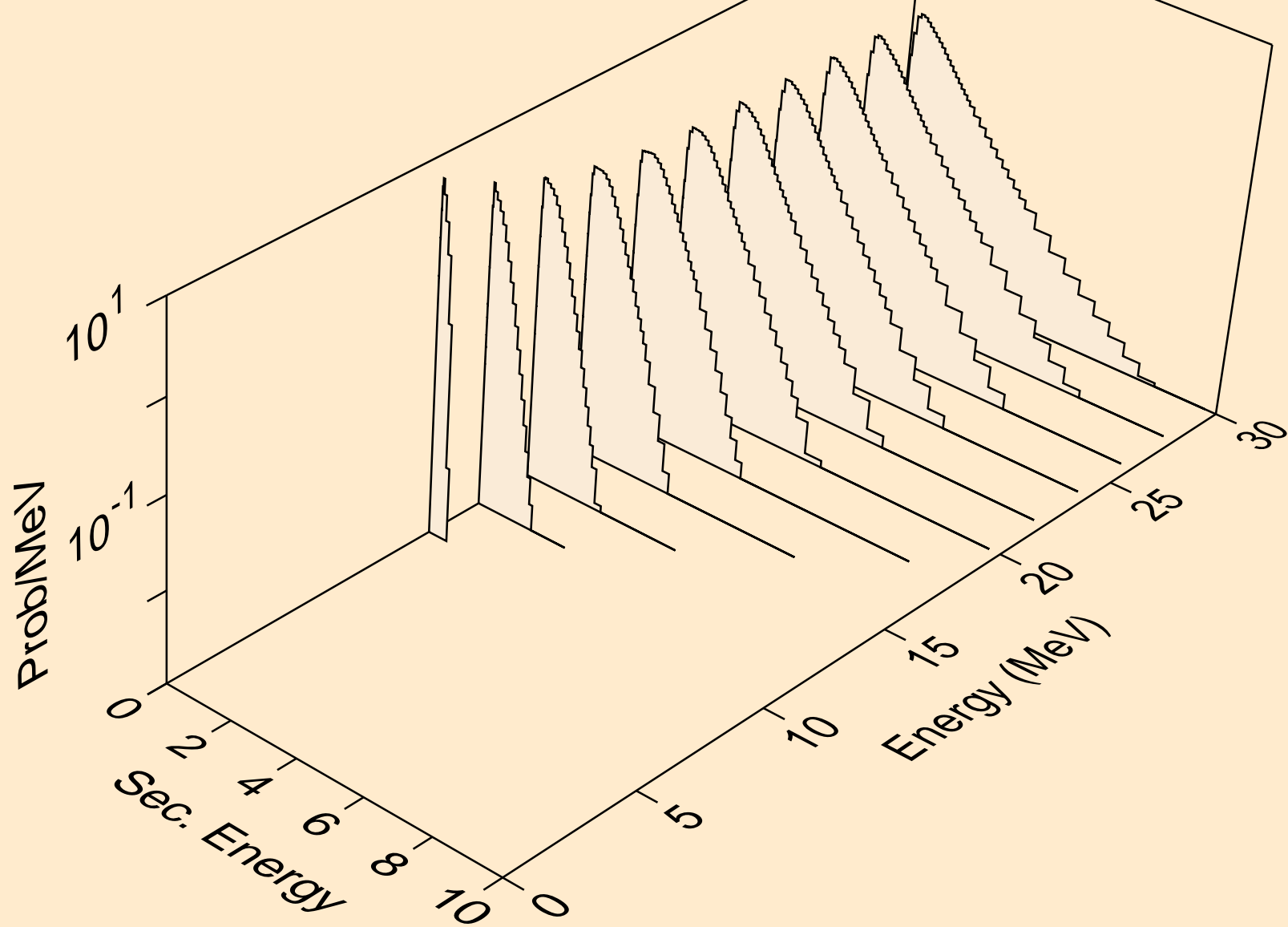


HF165 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,n\*)a

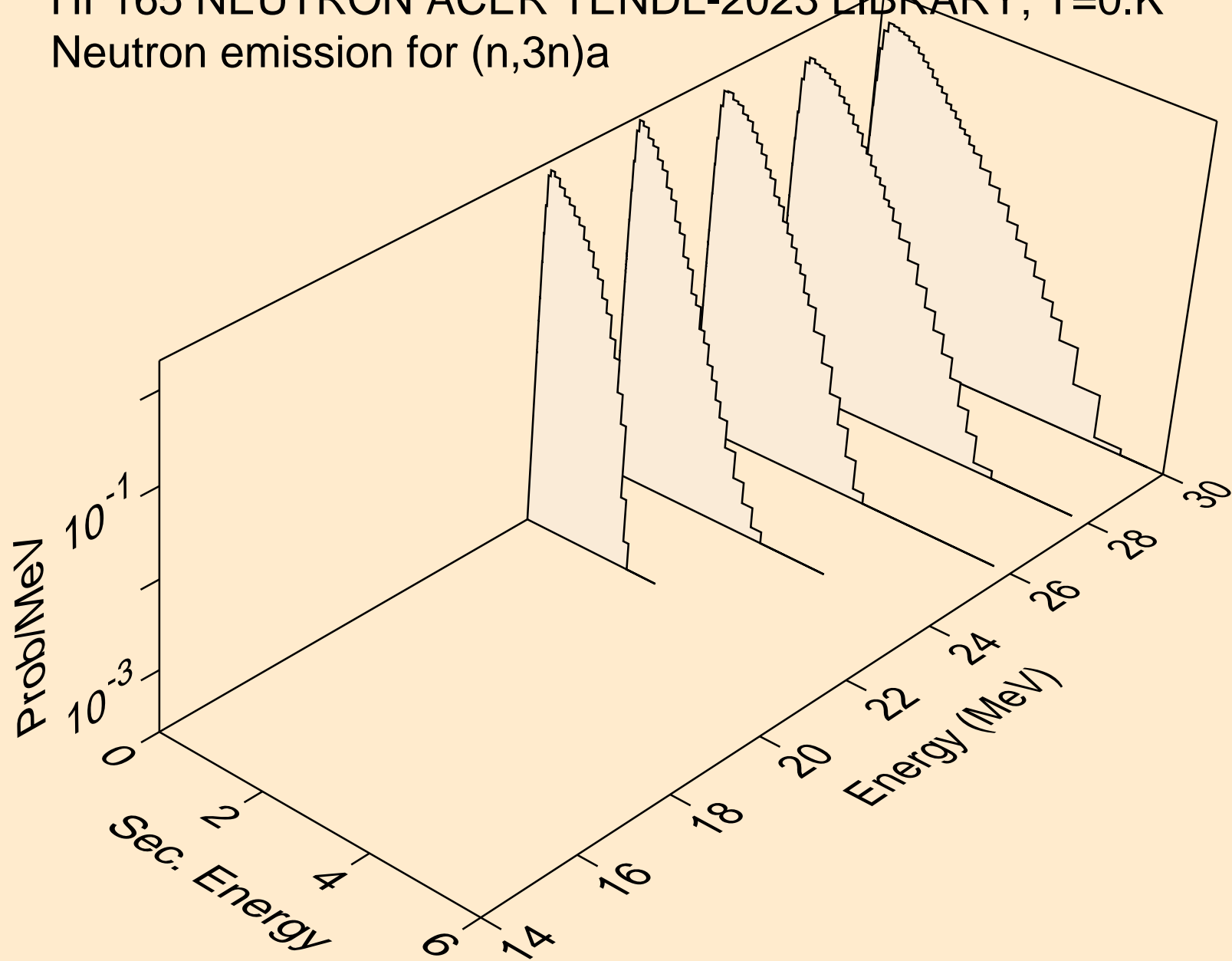




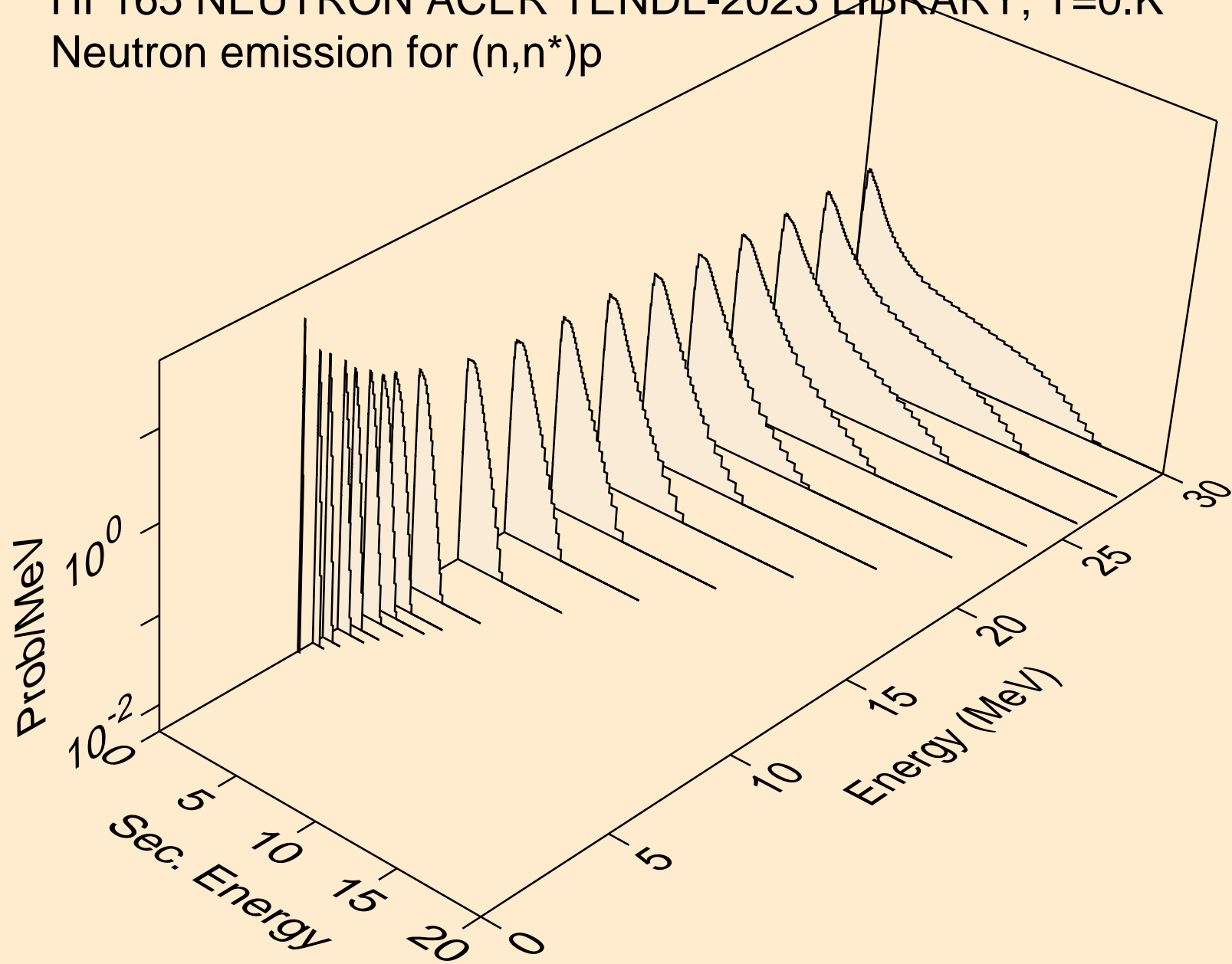
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Neutron emission for (n,2n)a



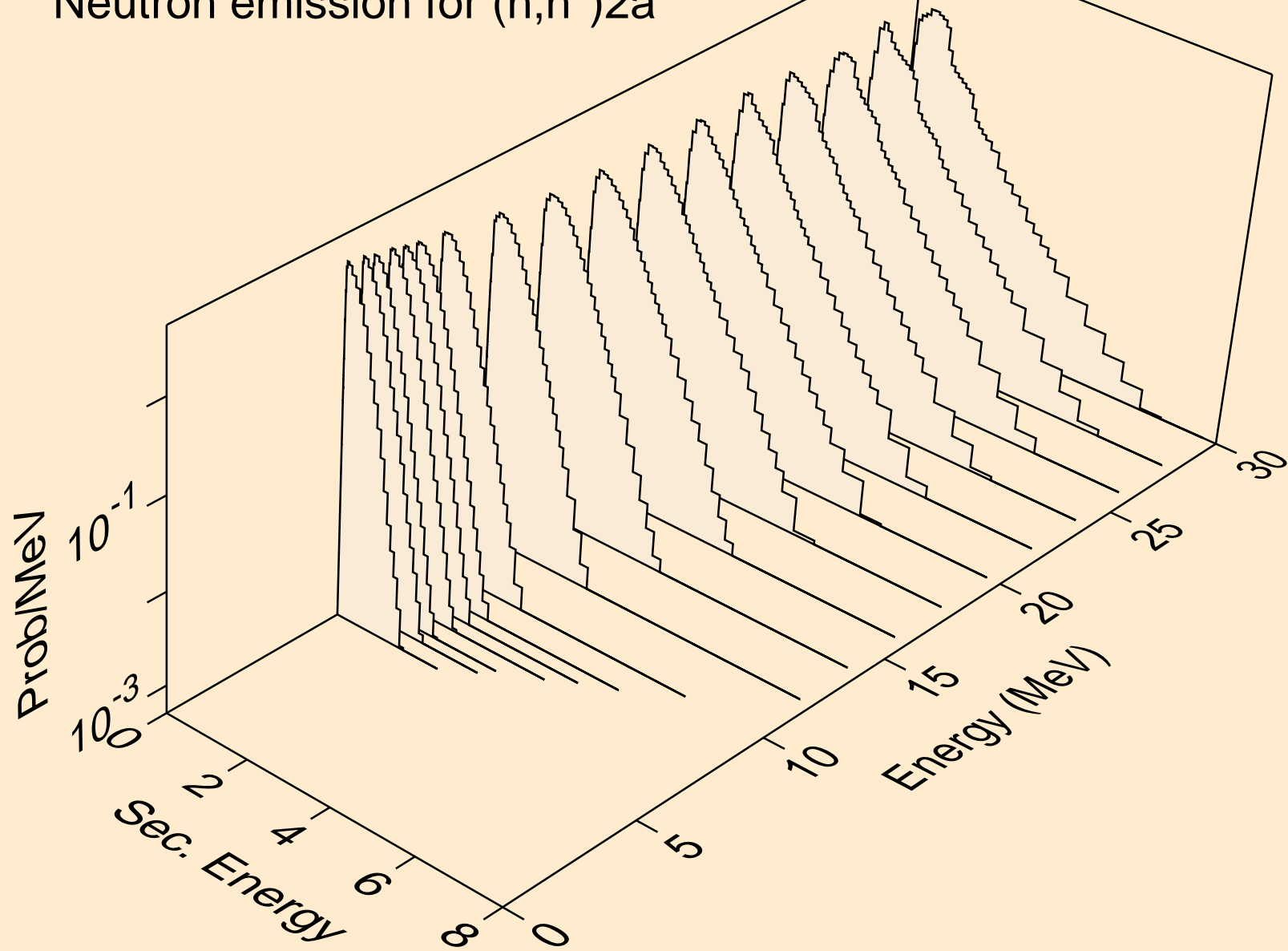
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Neutron emission for (n,3n)a



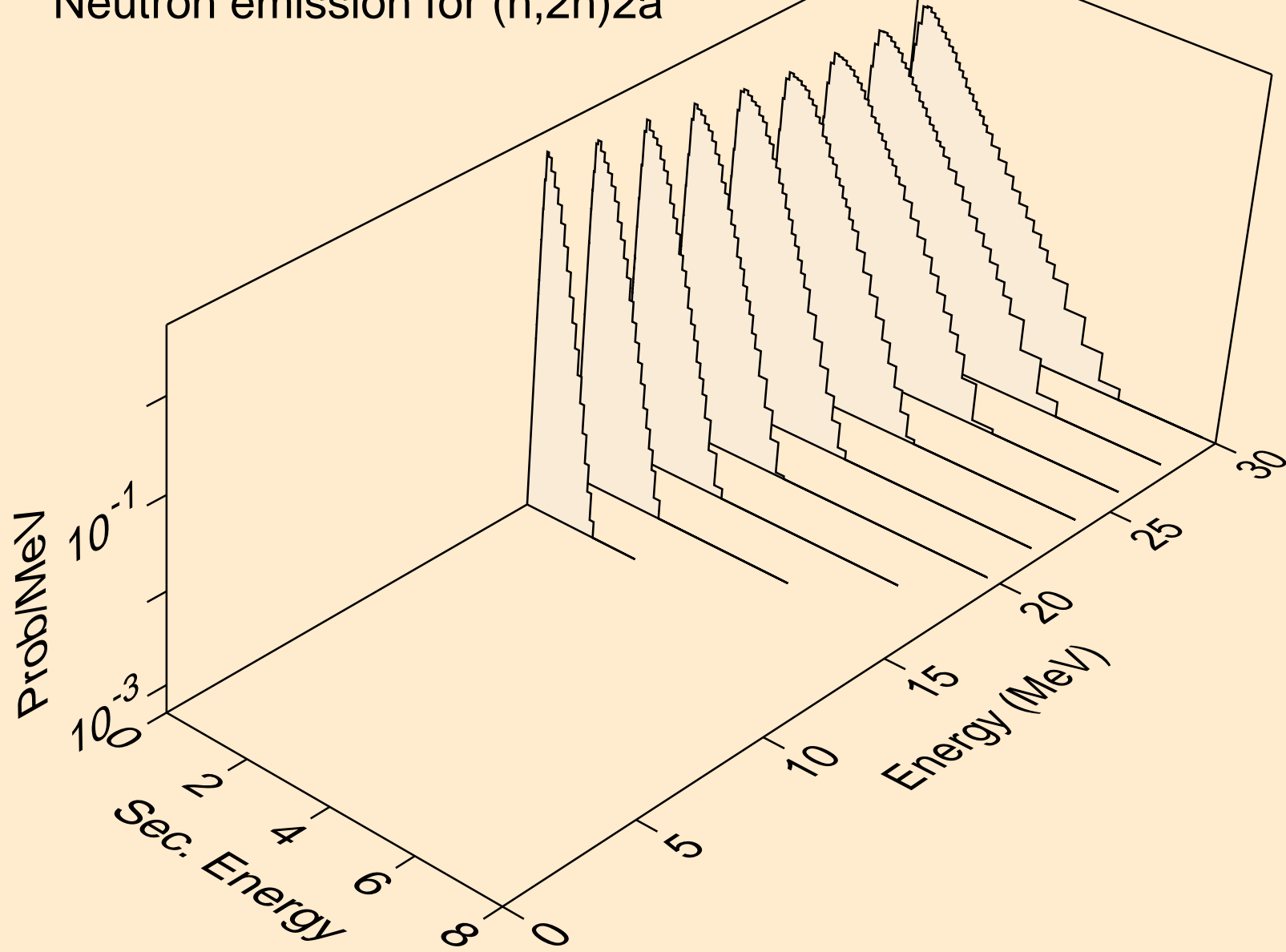
HF165 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,n\*)p



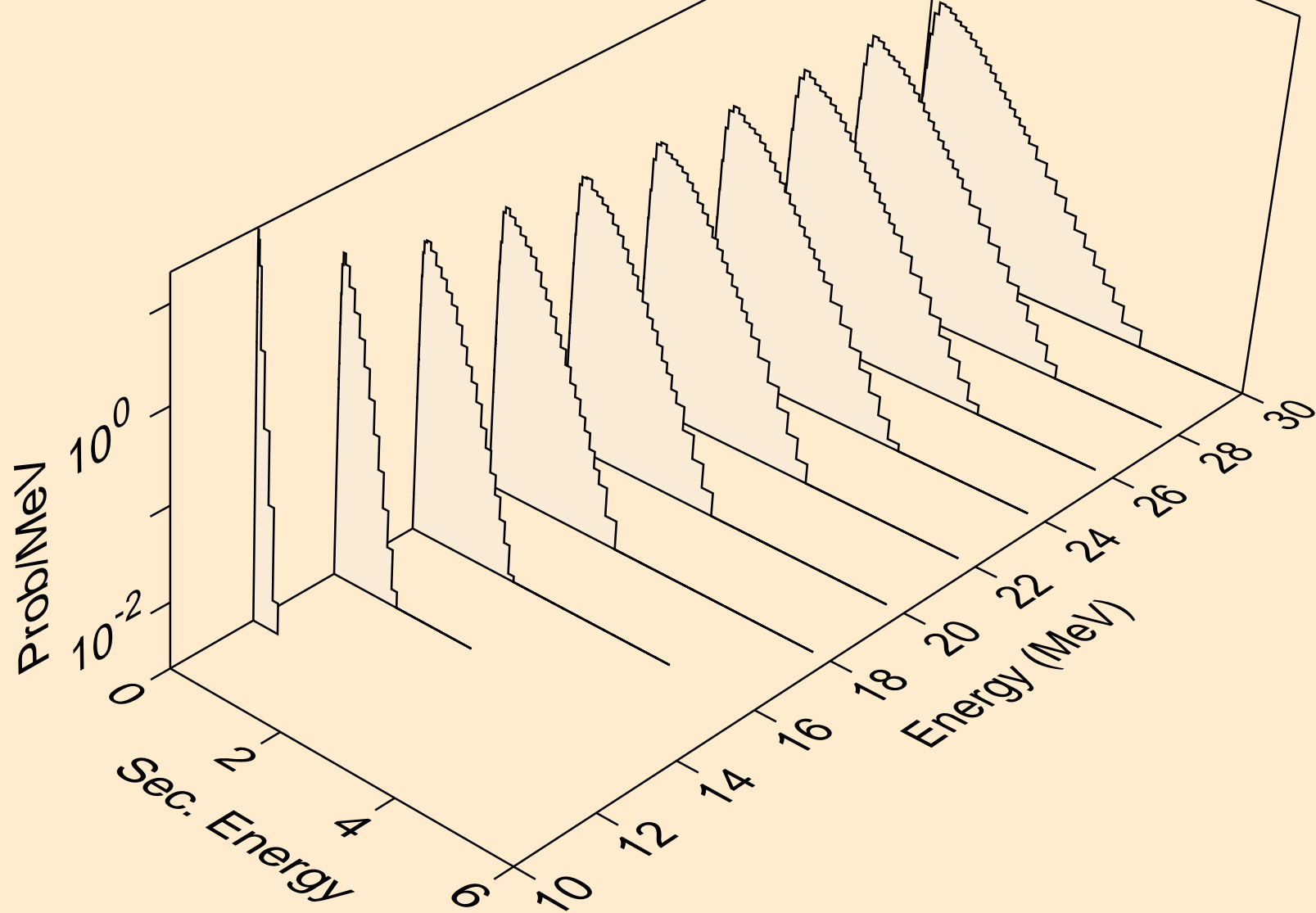
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Neutron emission for (n,n\*)2a



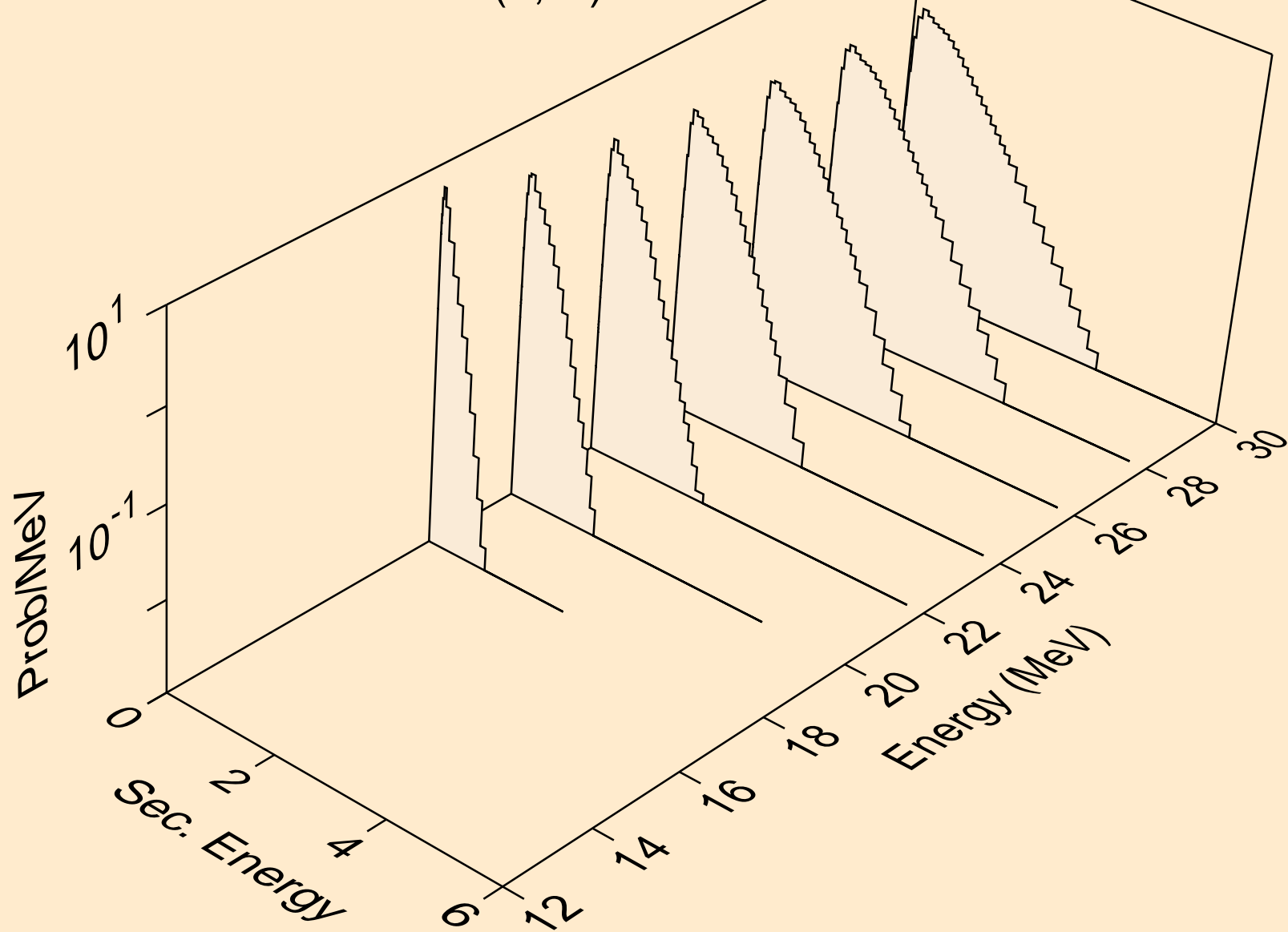
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Neutron emission for (n,2n)2a



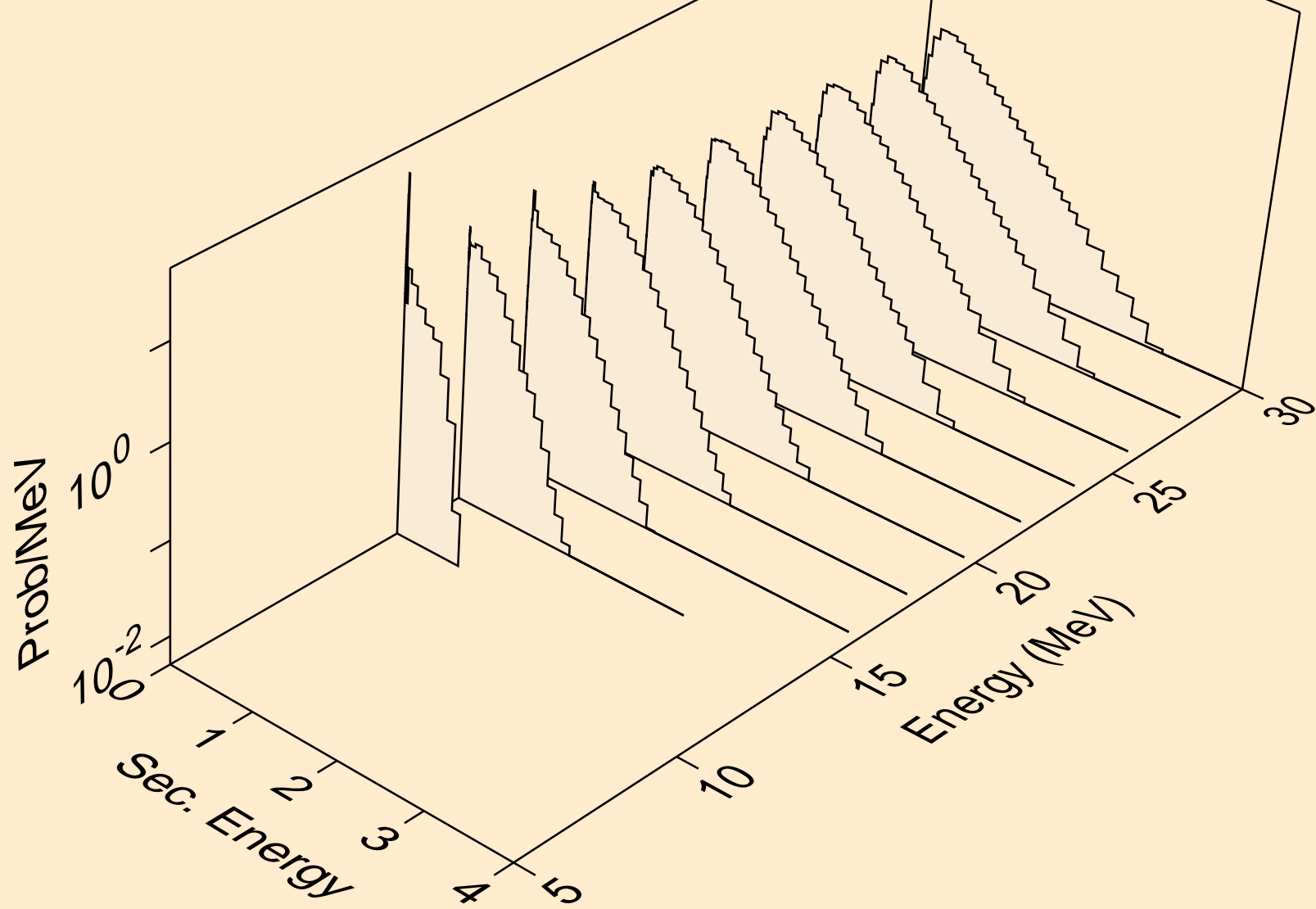
HF165 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,n\*)d



HF165 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,n\*)t

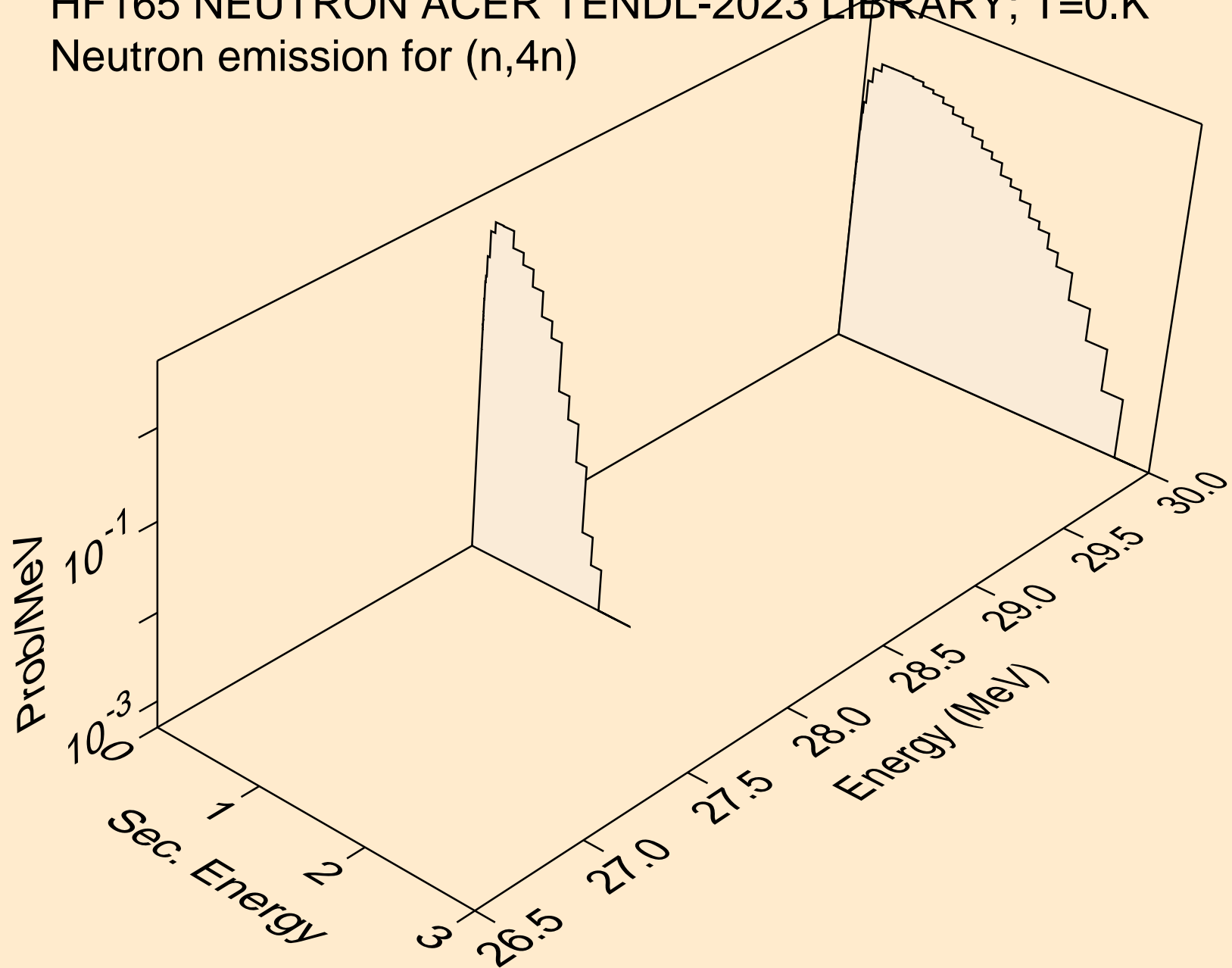


HF165 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,n\*)he3

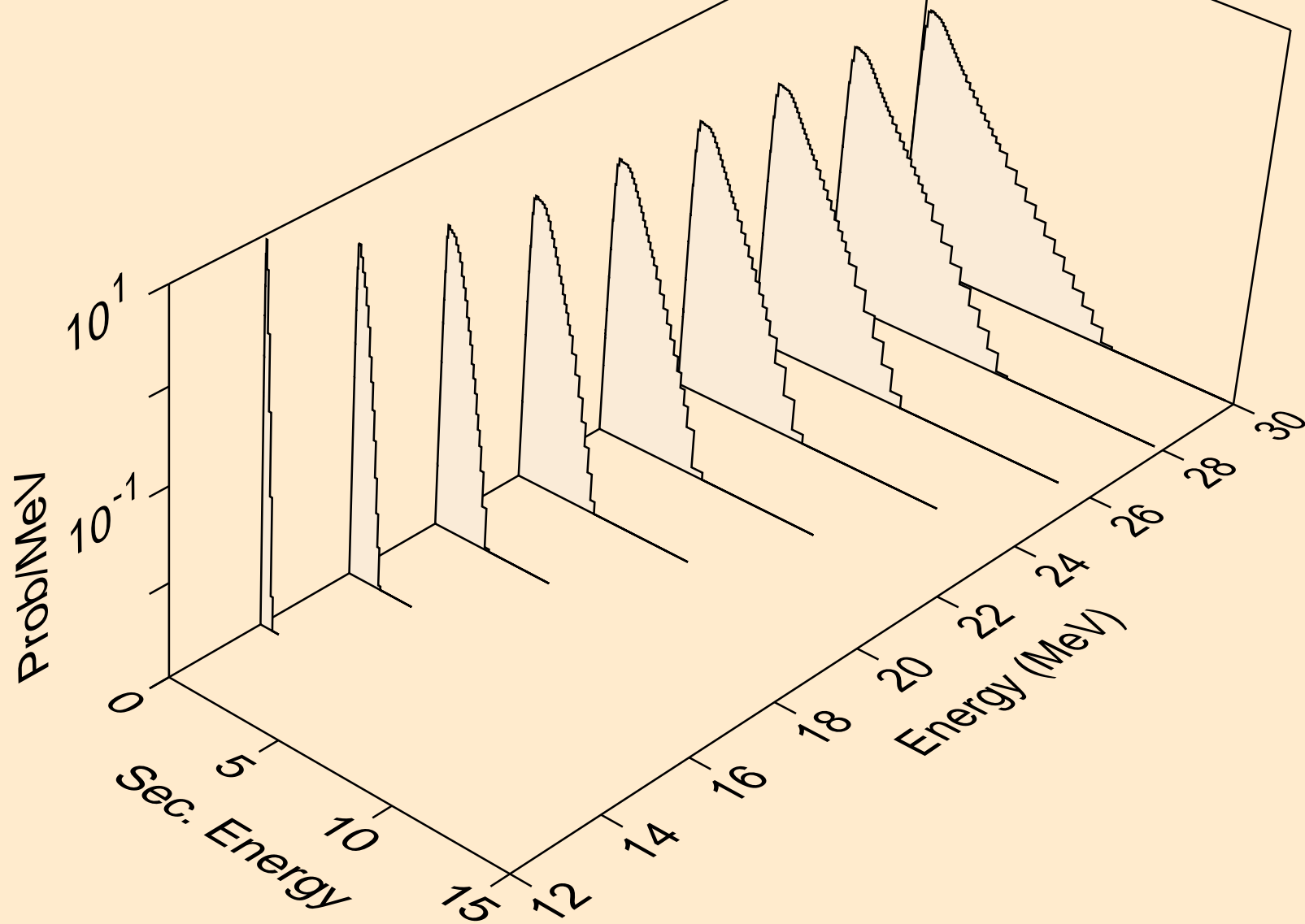




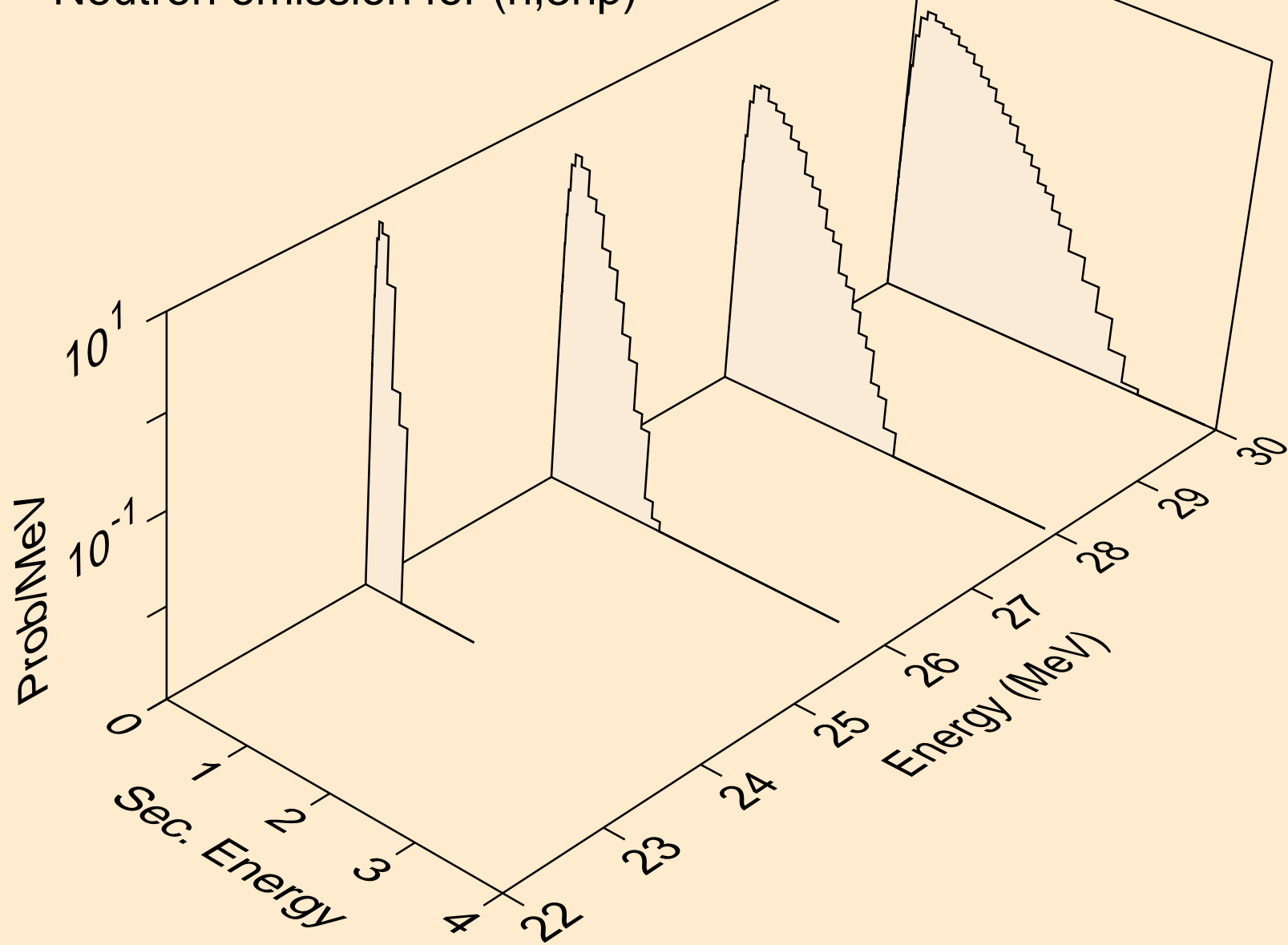
HF165 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,4n)



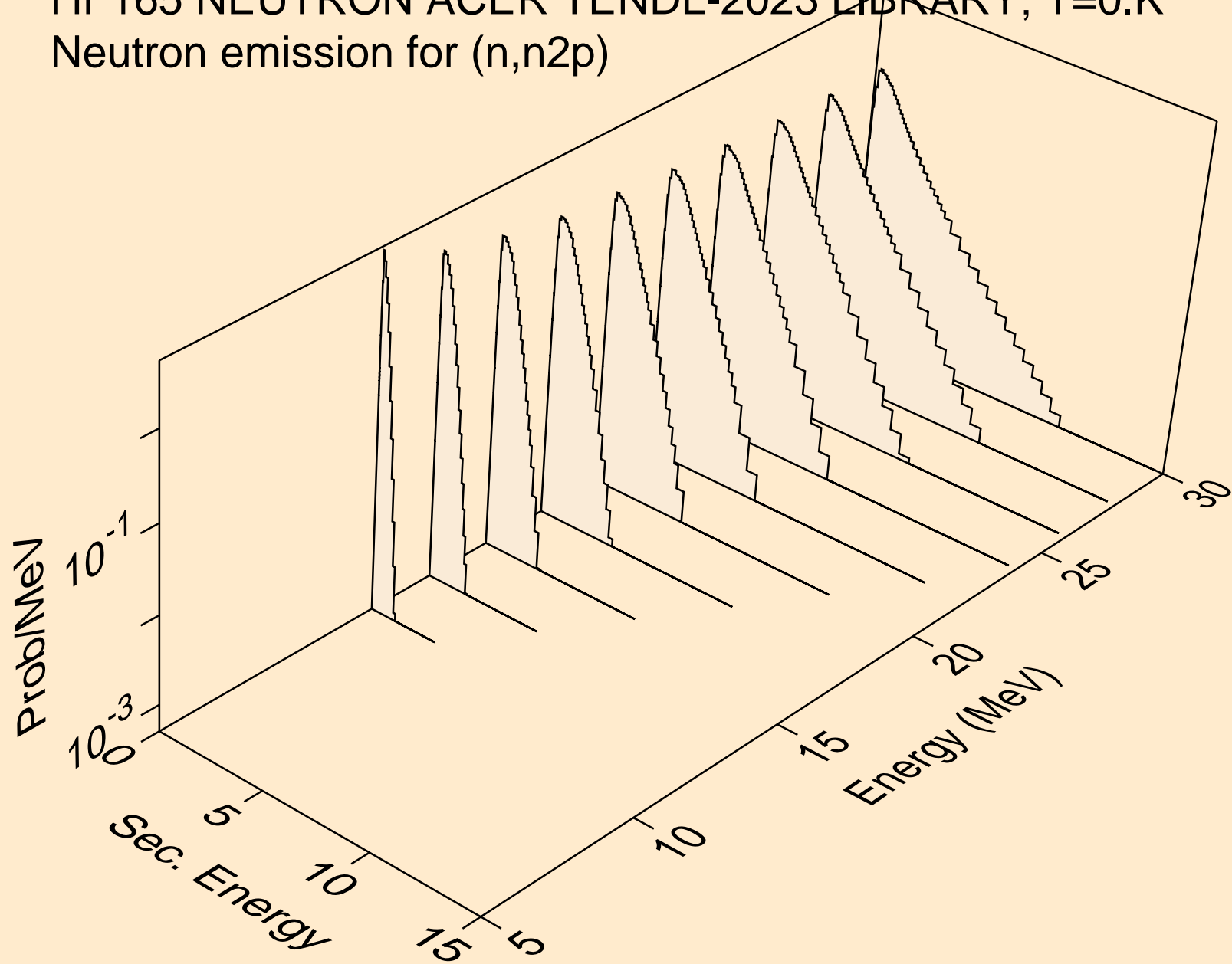
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Neutron emission for (n,2np)



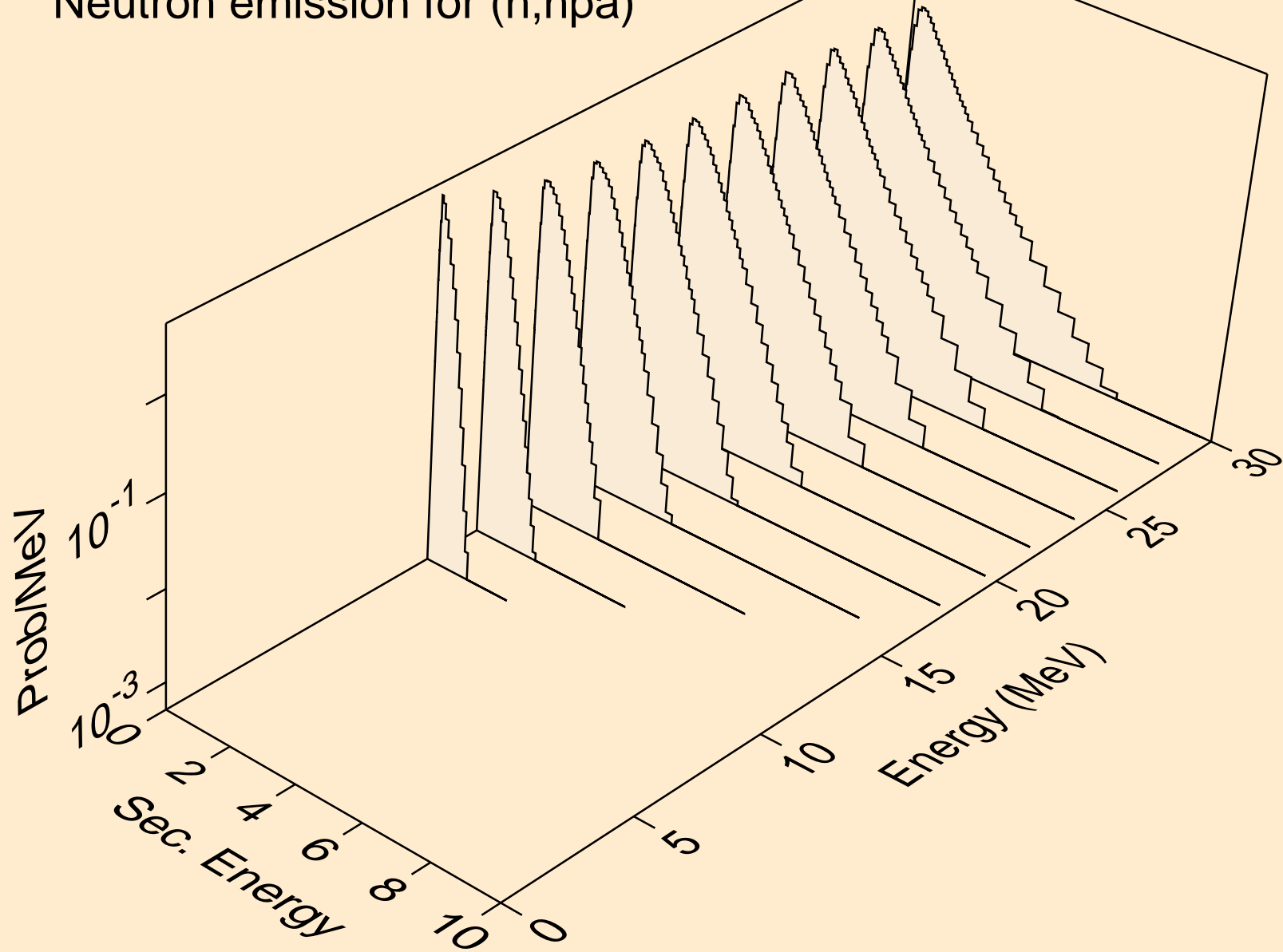
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Neutron emission for (n,3np)



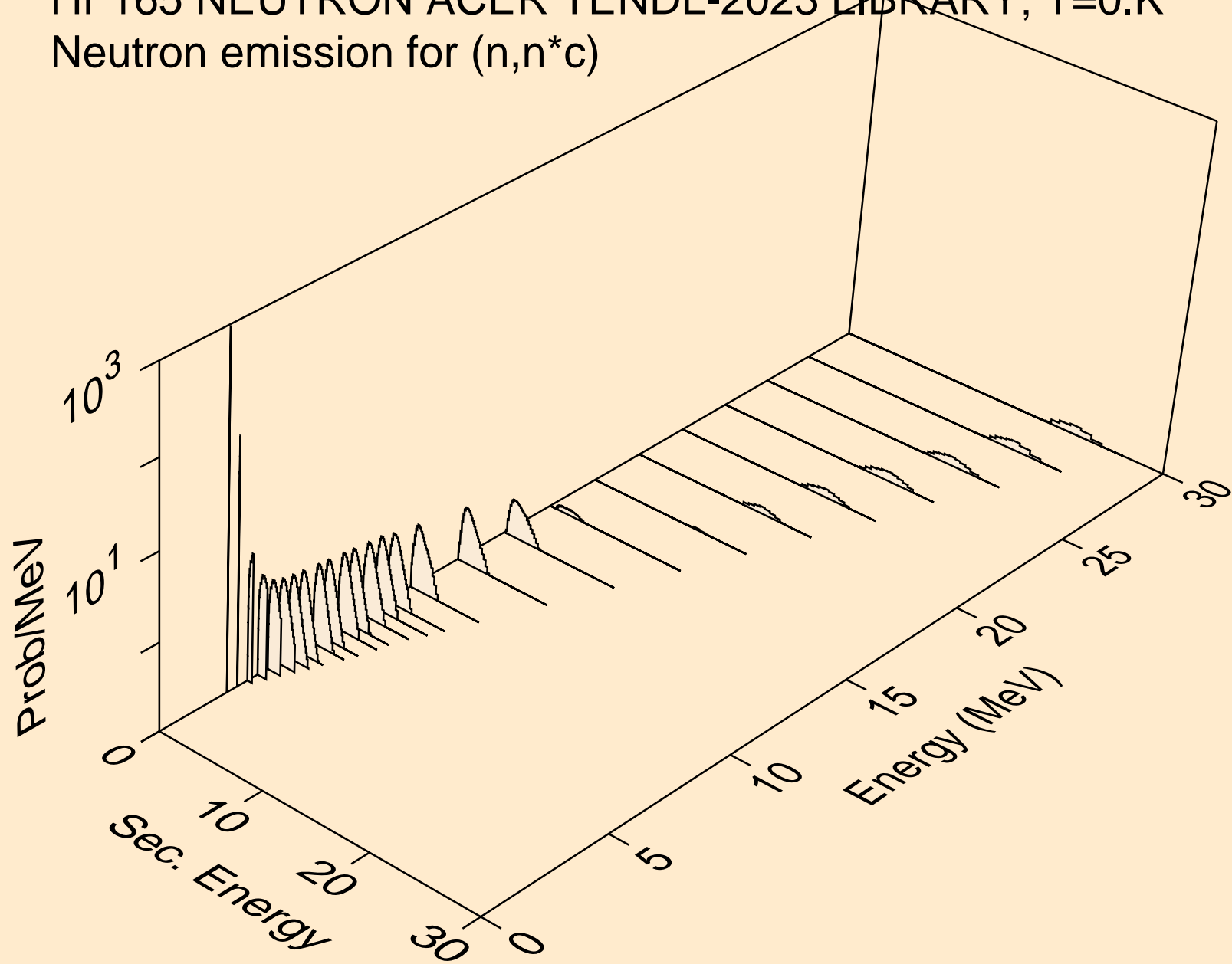
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Neutron emission for (n,n2p)



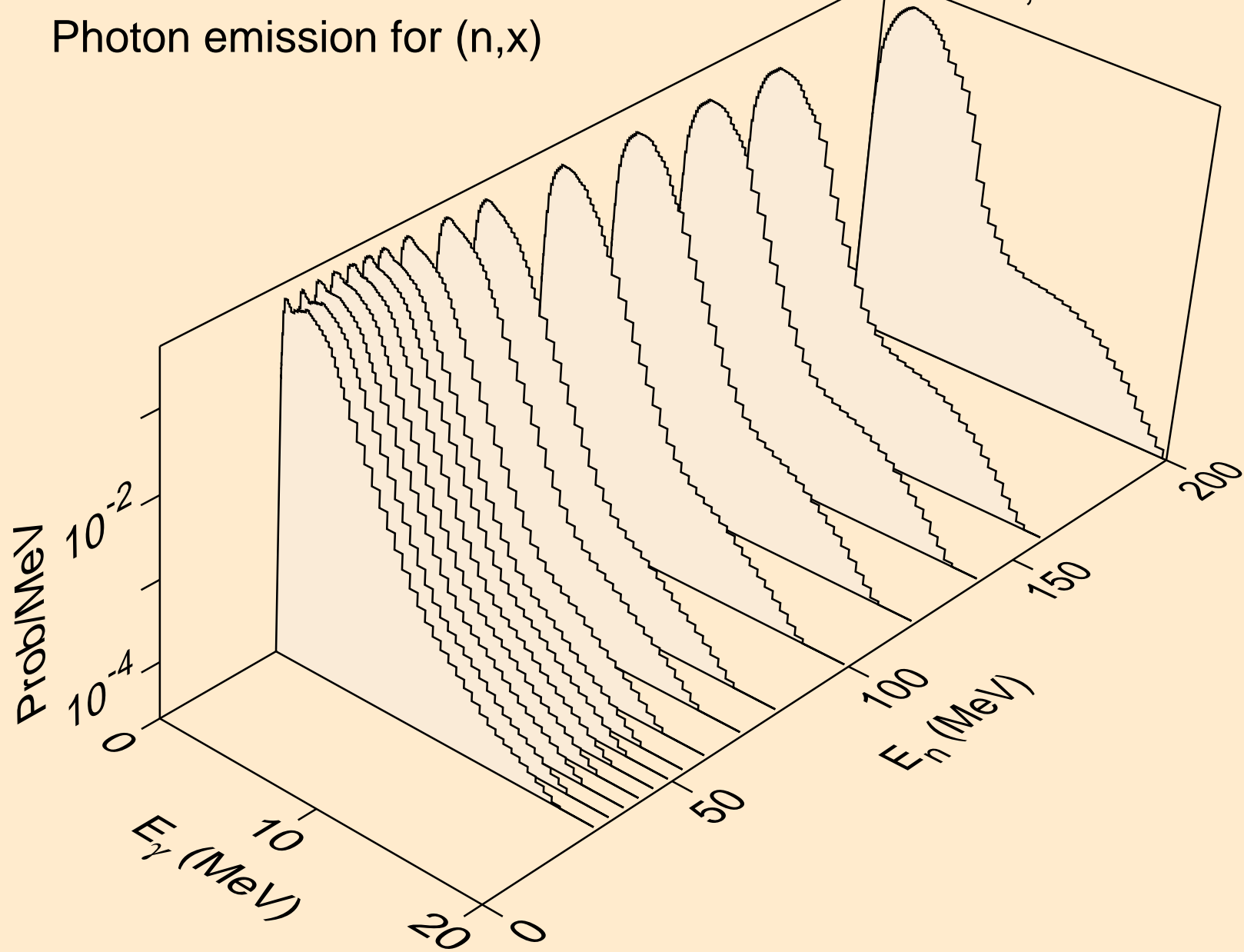
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Neutron emission for (n,npa)



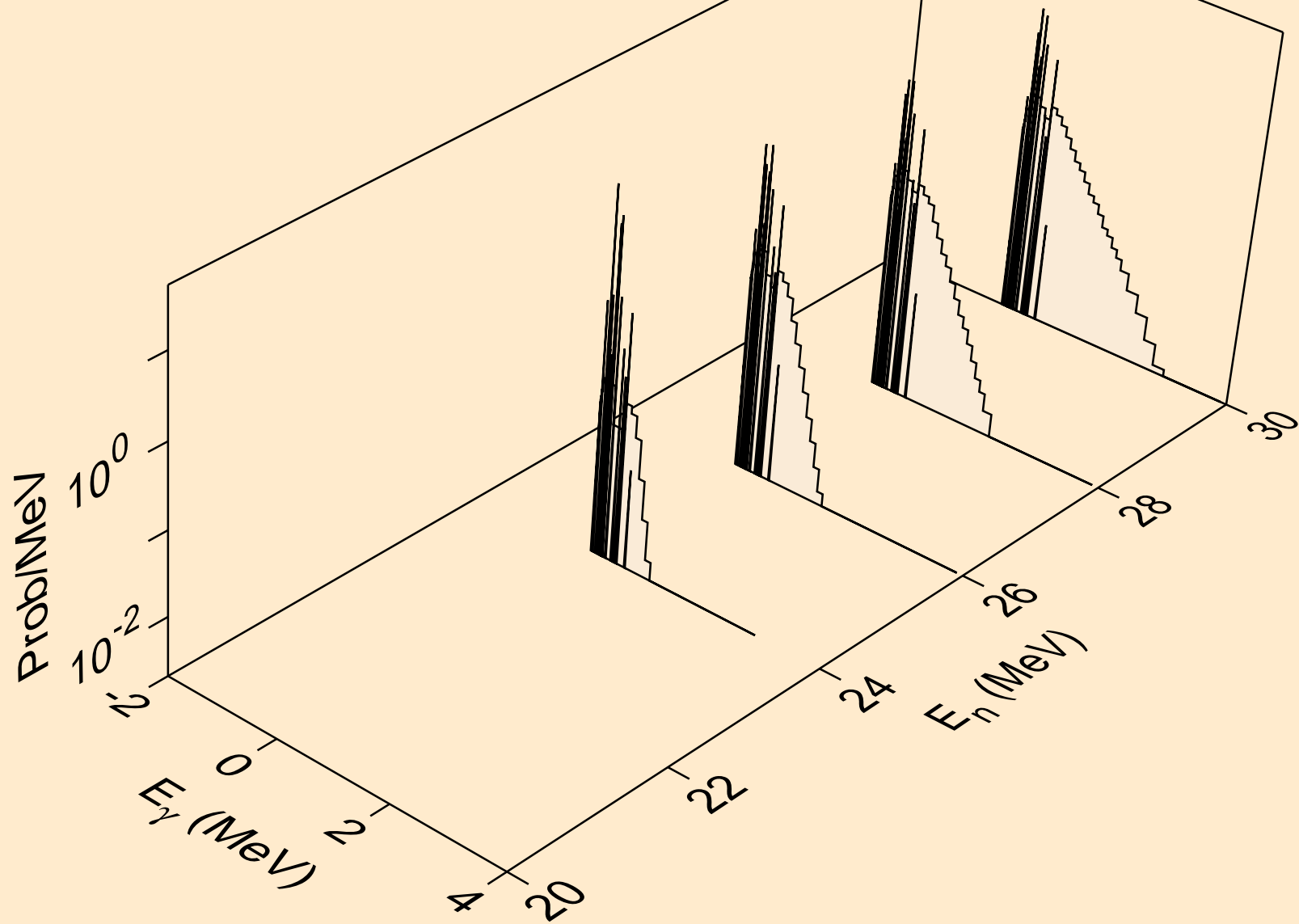
HF165 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,n\*c)



HF165 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,x)

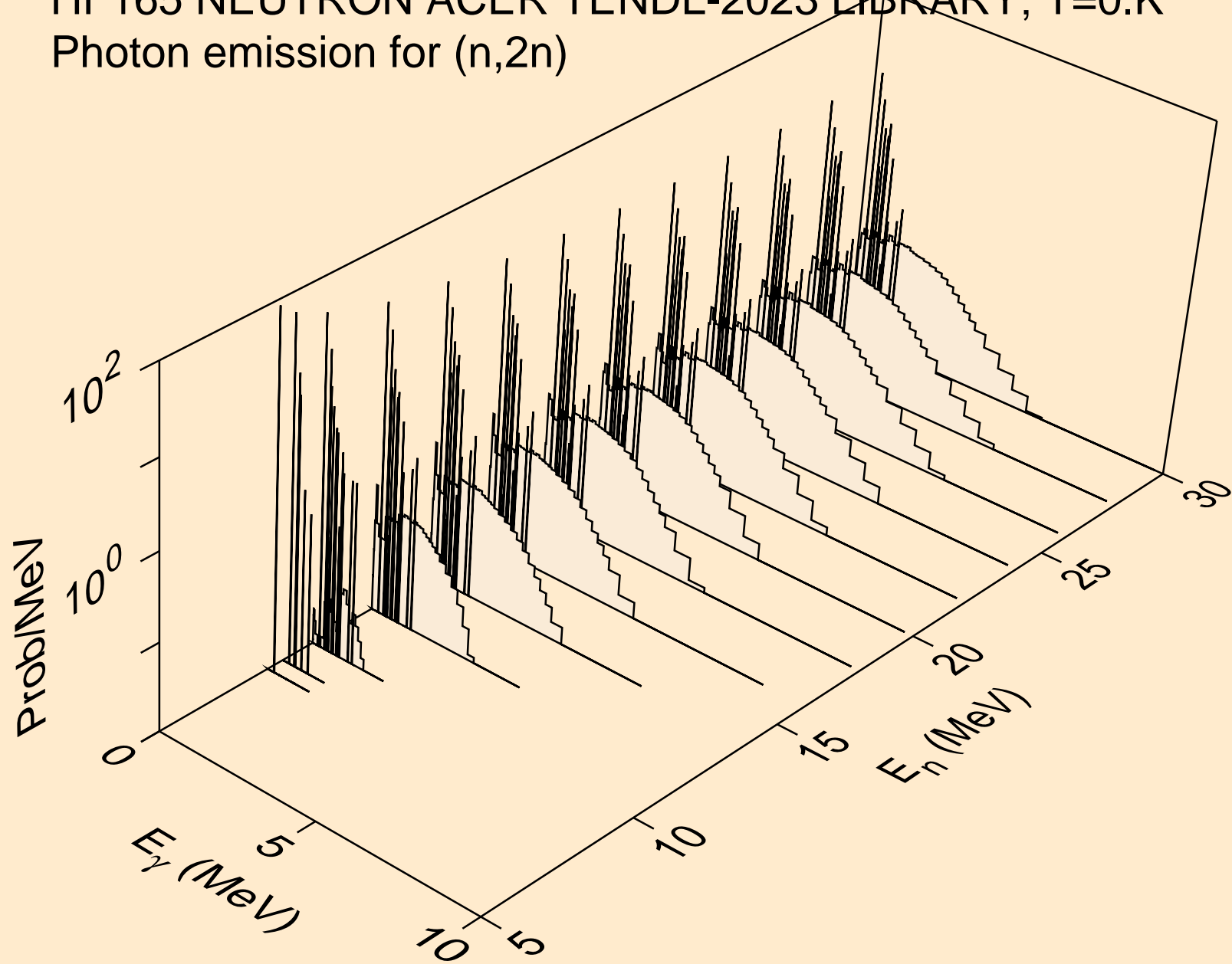


HF165 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2nd)

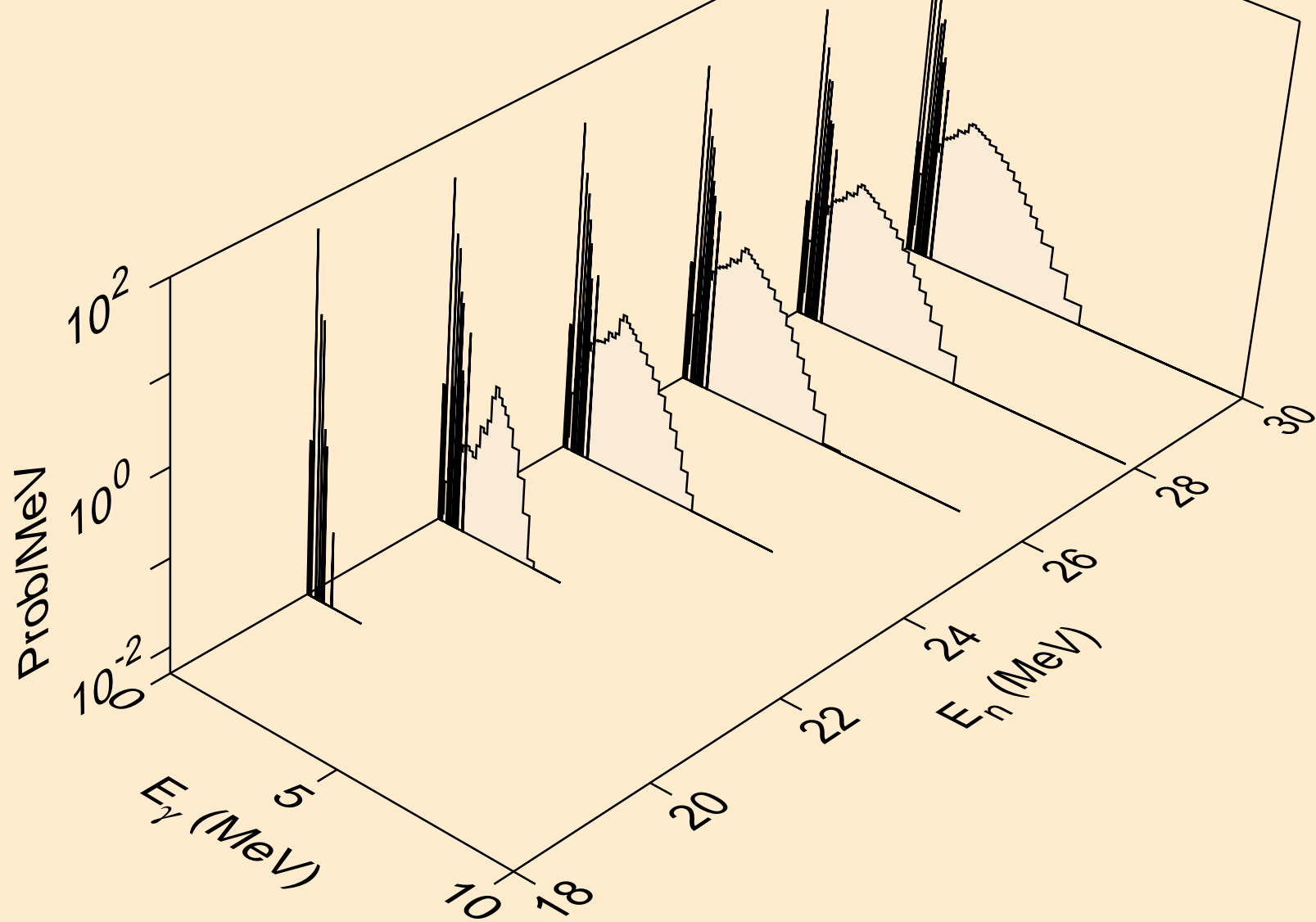




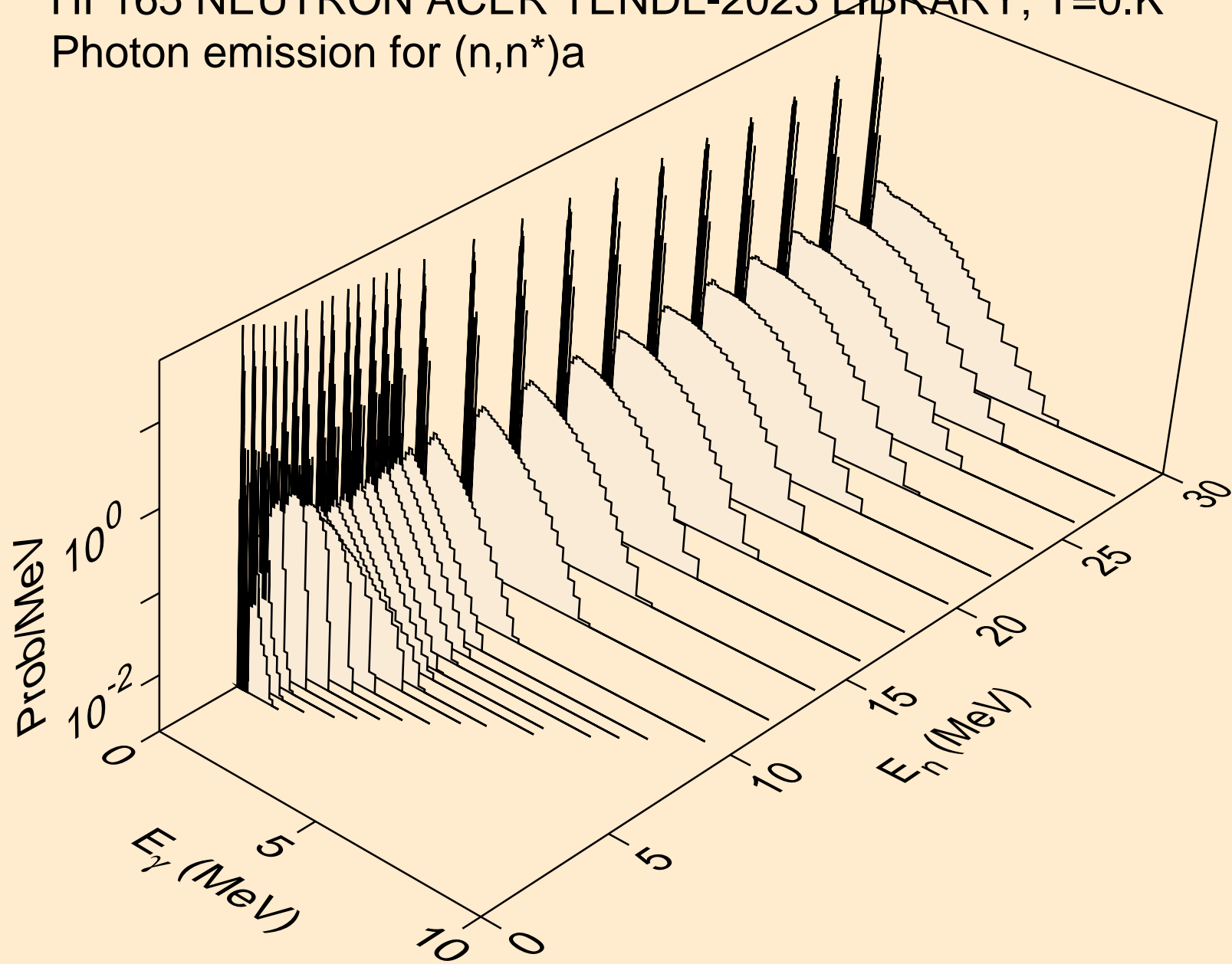
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Photon emission for (n,2n)



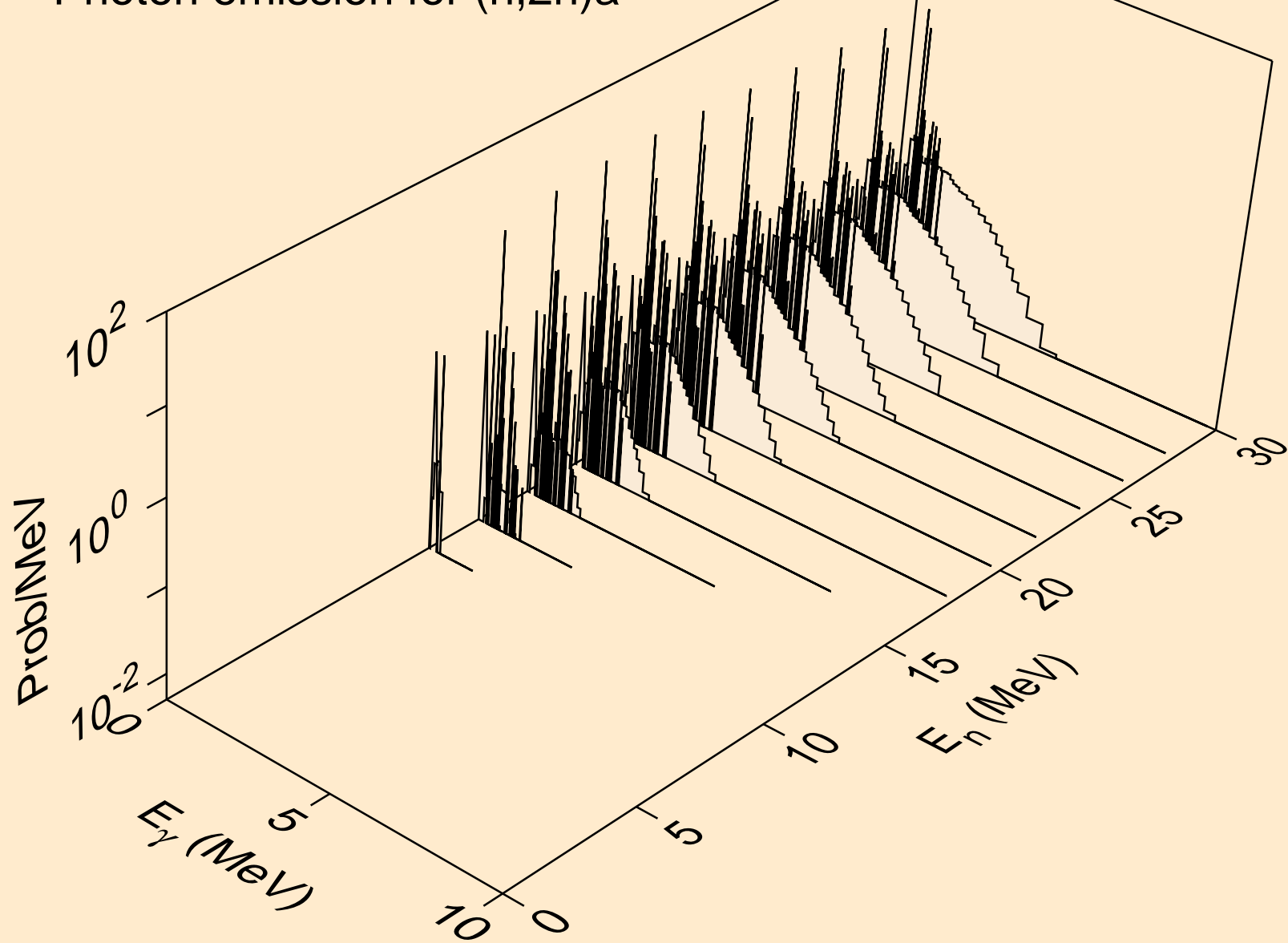
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Photon emission for (n,3n)



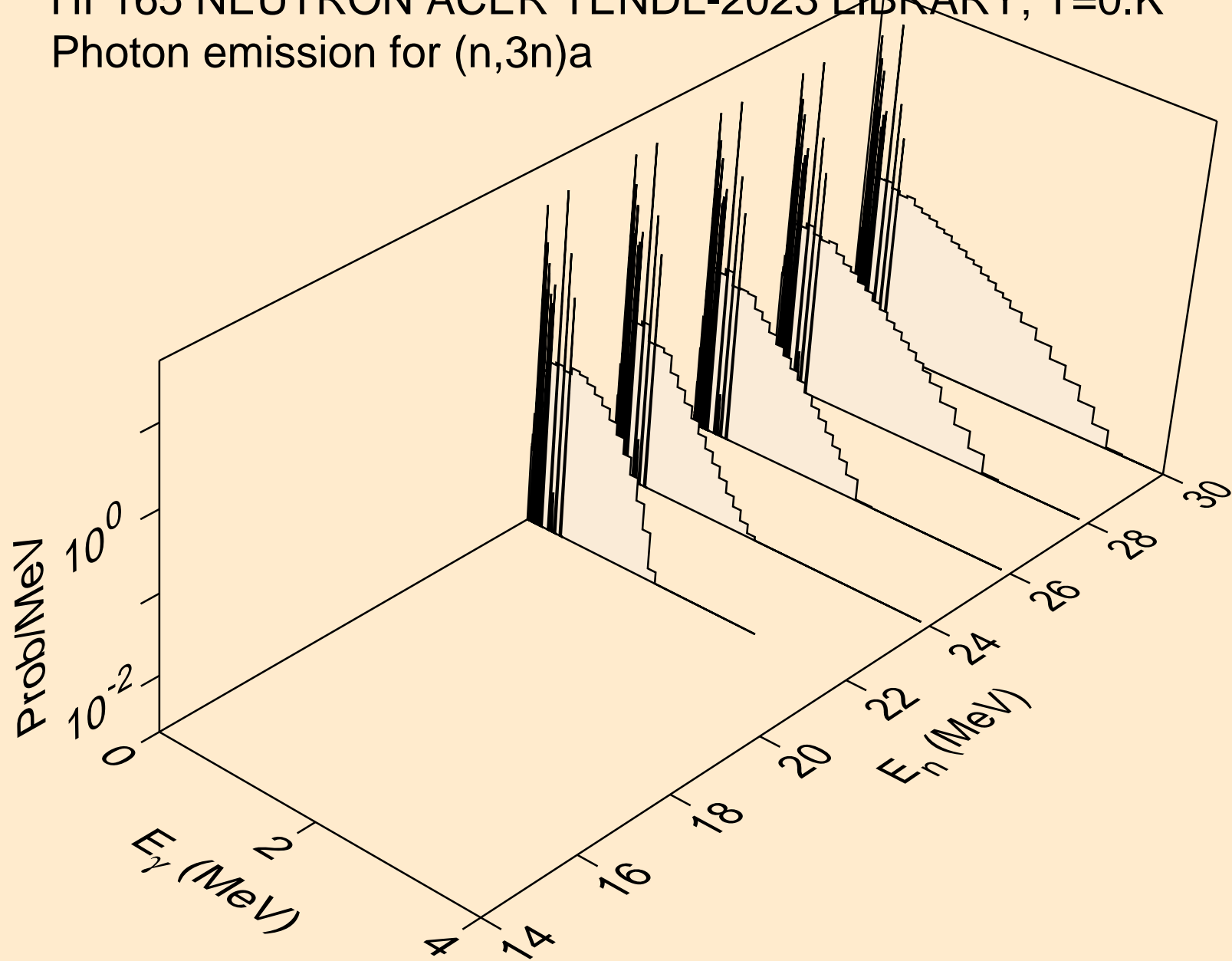
HF165 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)a



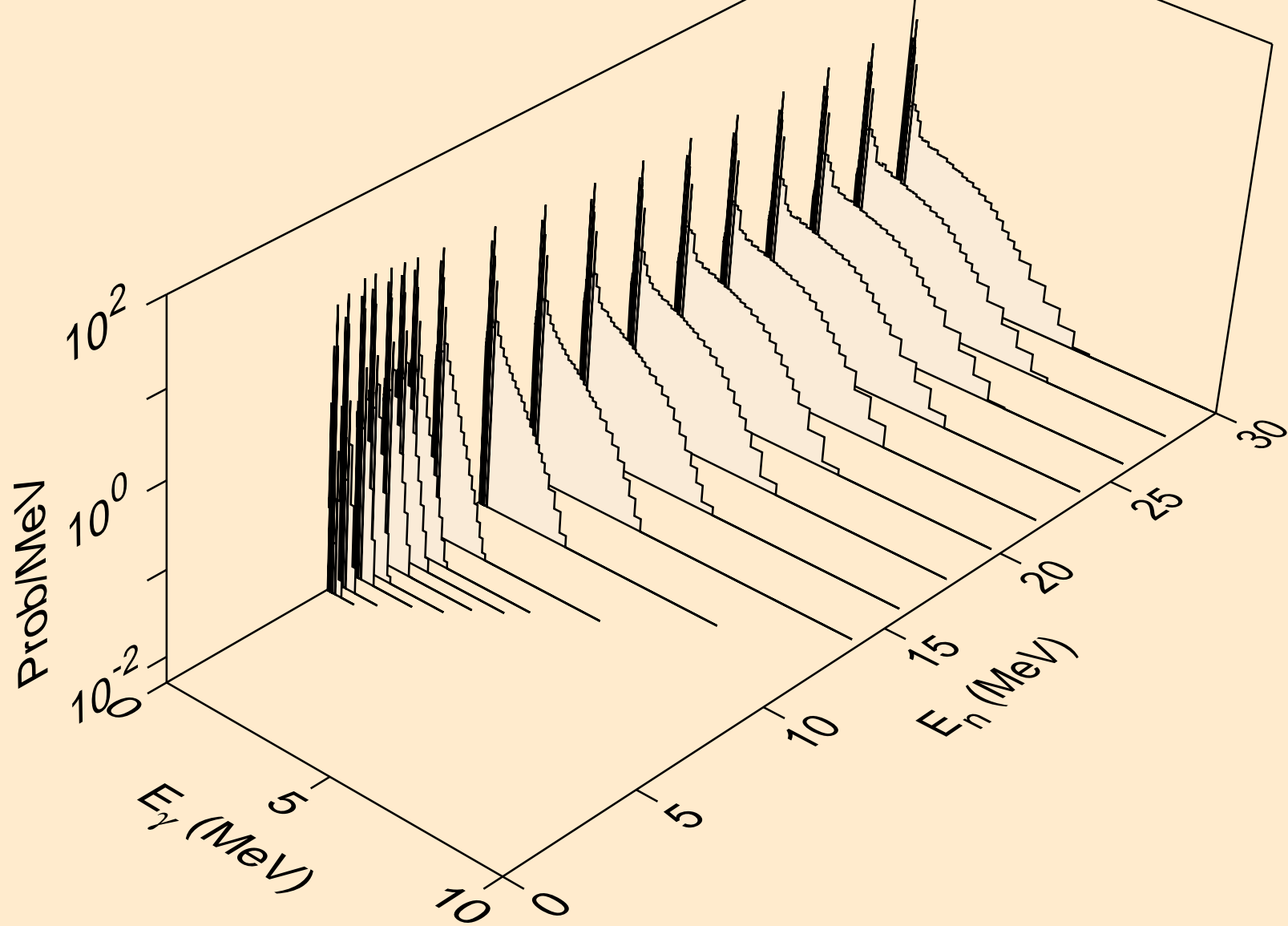
HF165 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2n)a



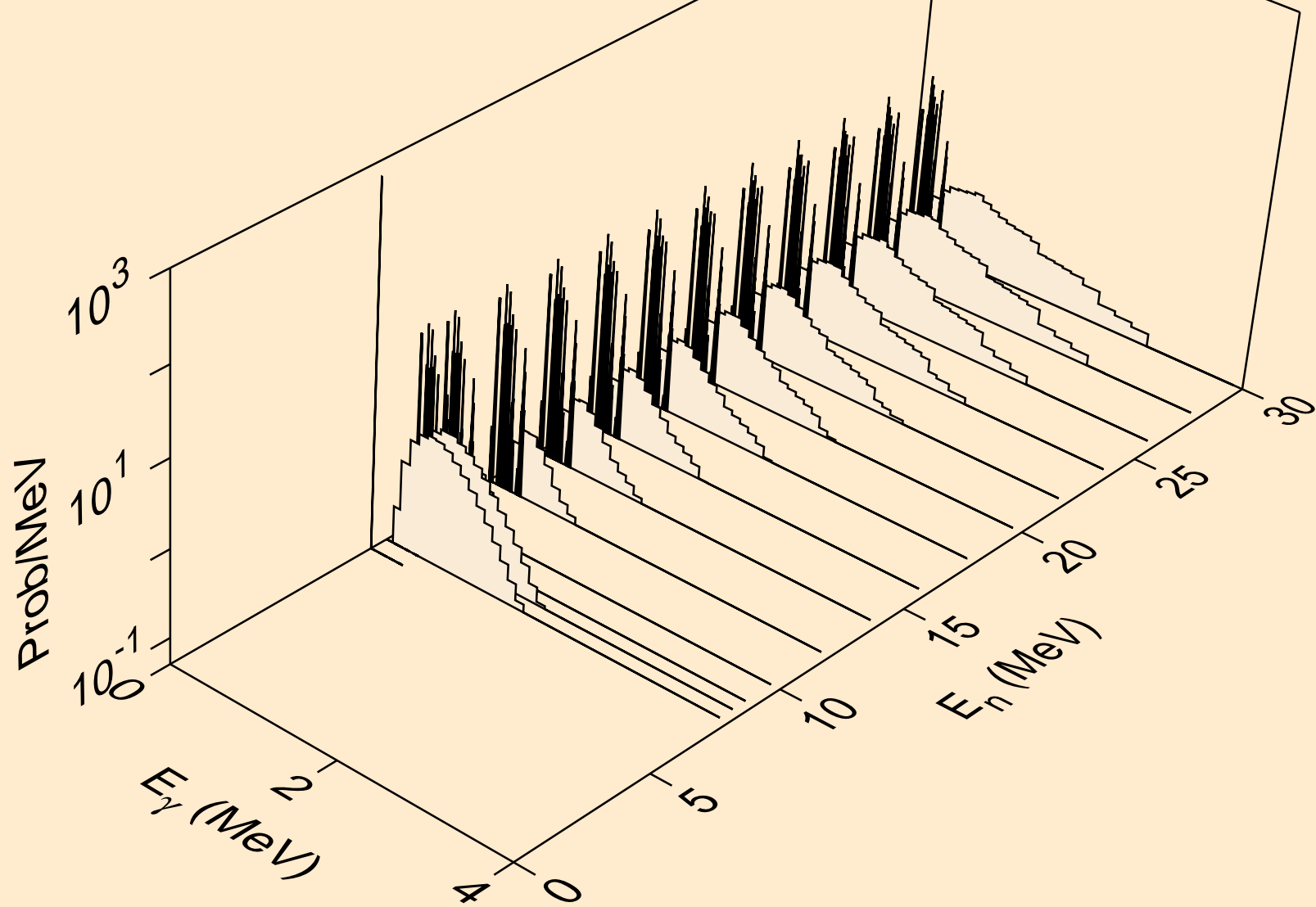
HF165 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,3n)a



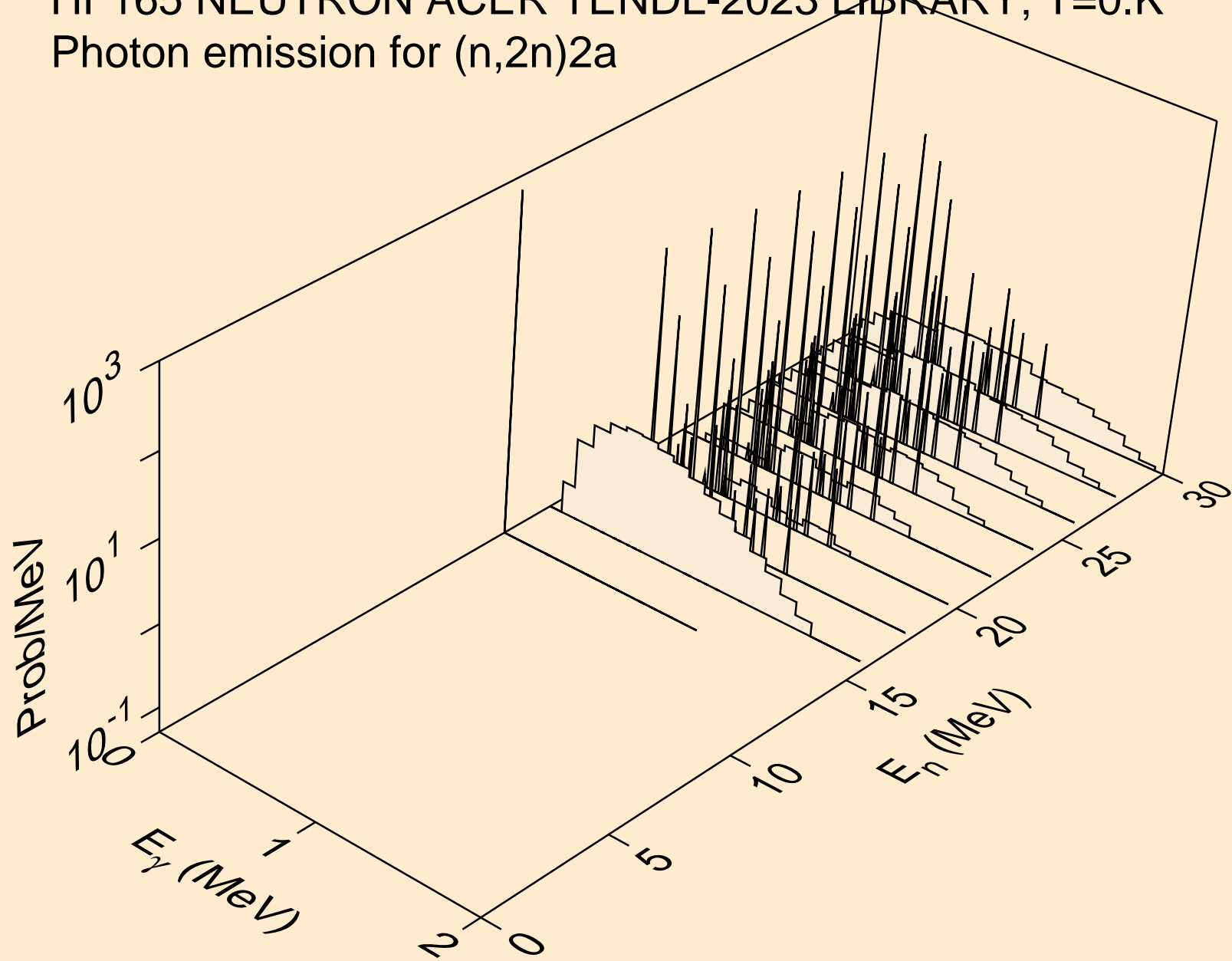
HF165 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)p



HF165 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)2a

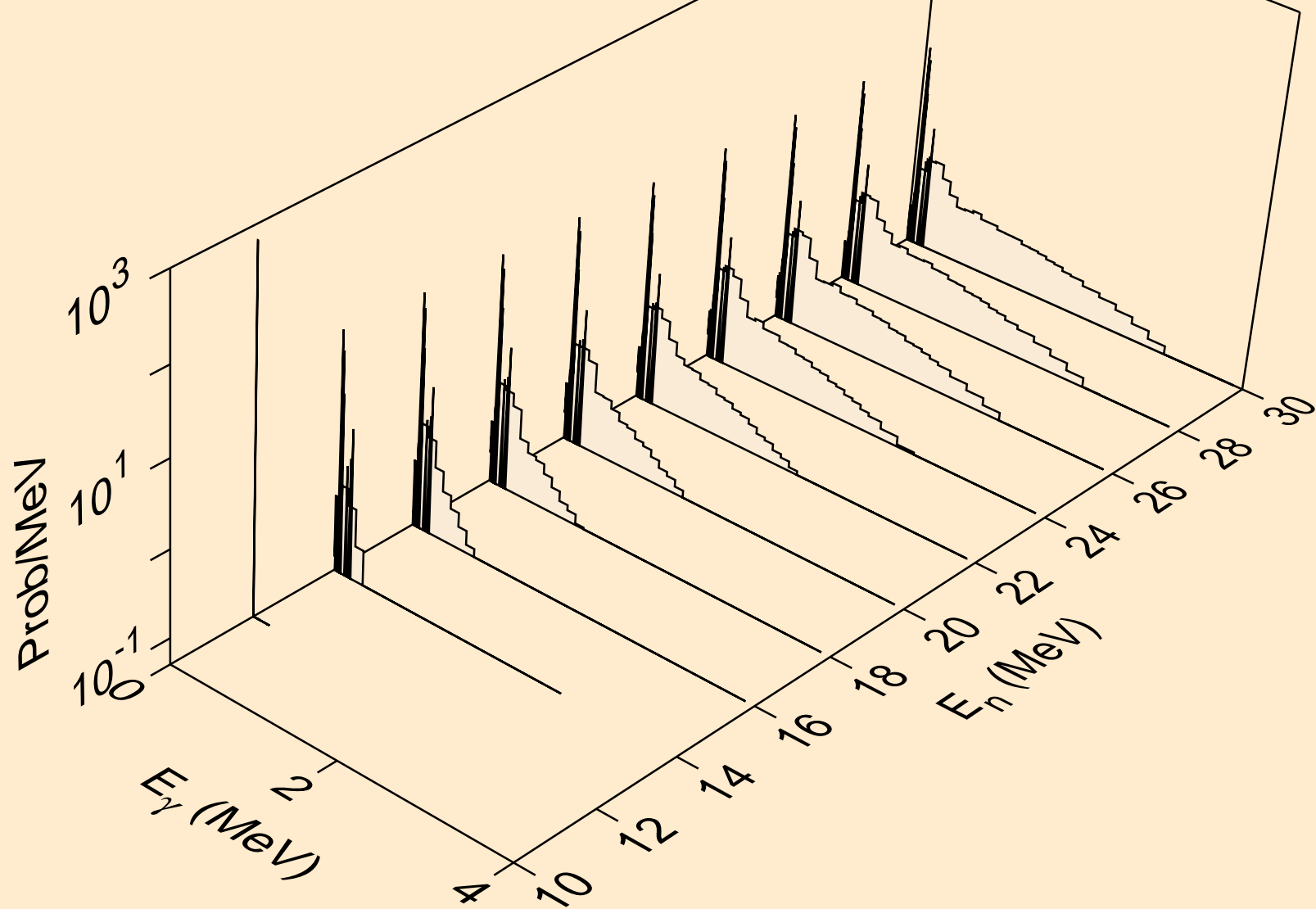


HF165 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2n)2a

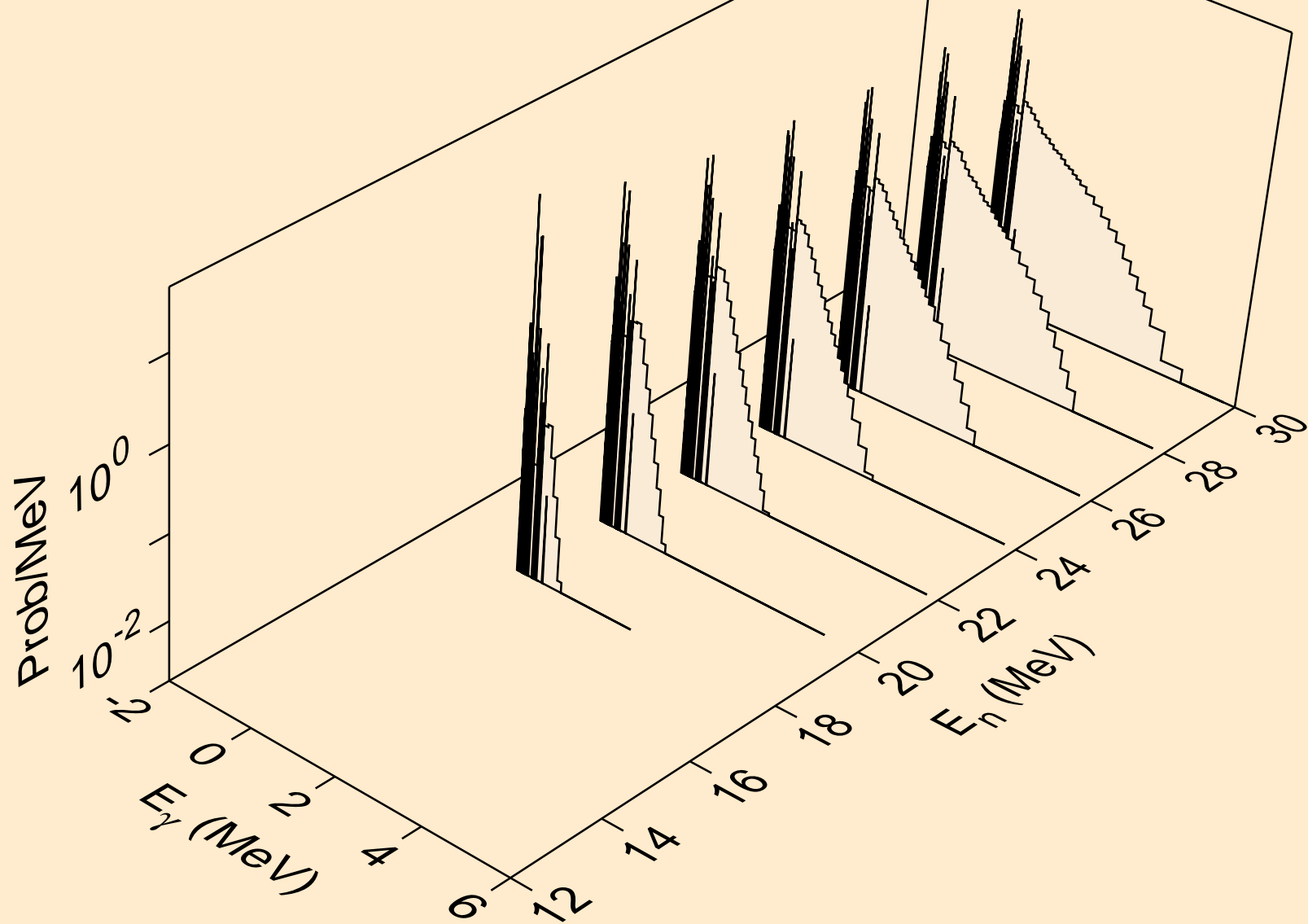




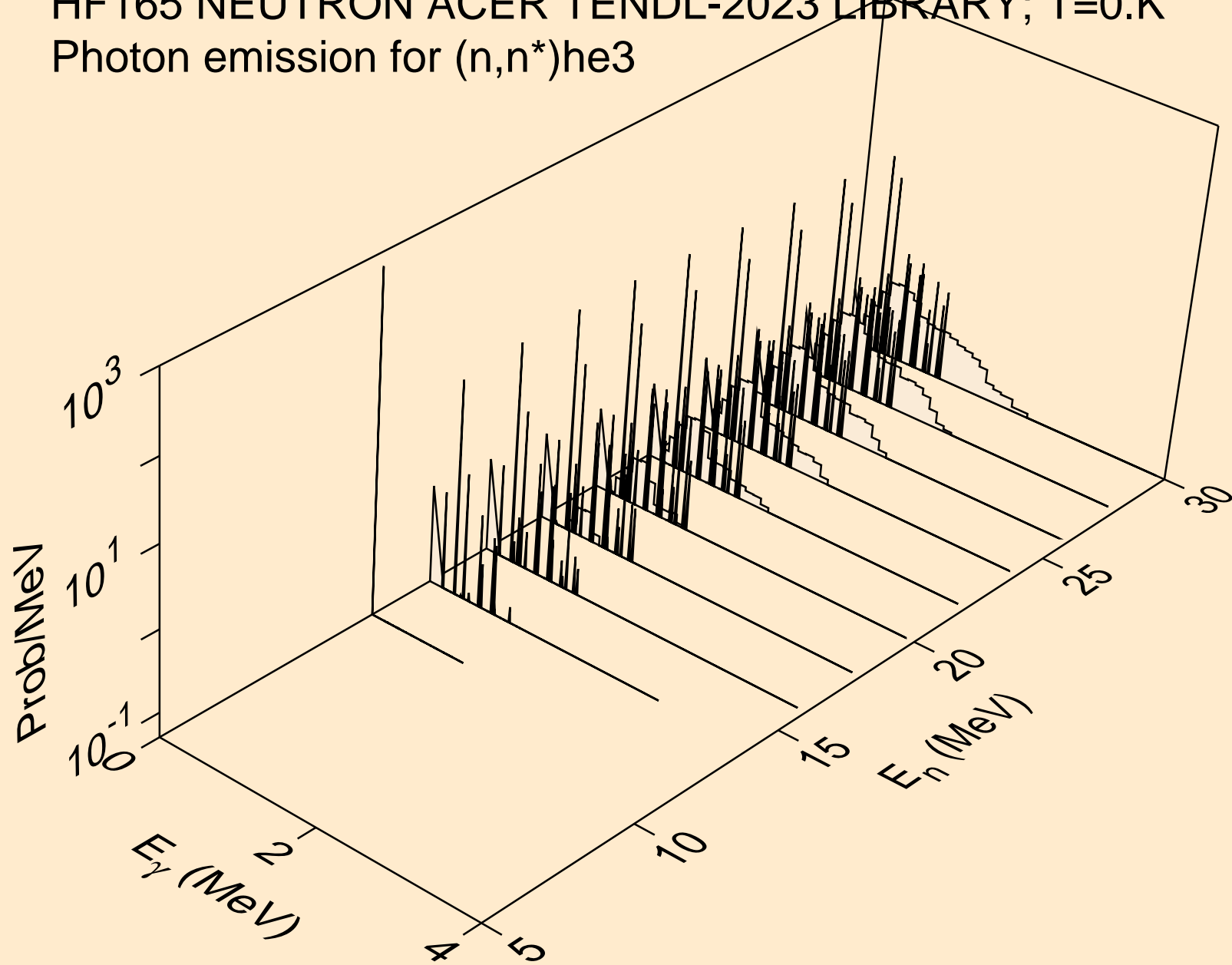
HF165 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)d



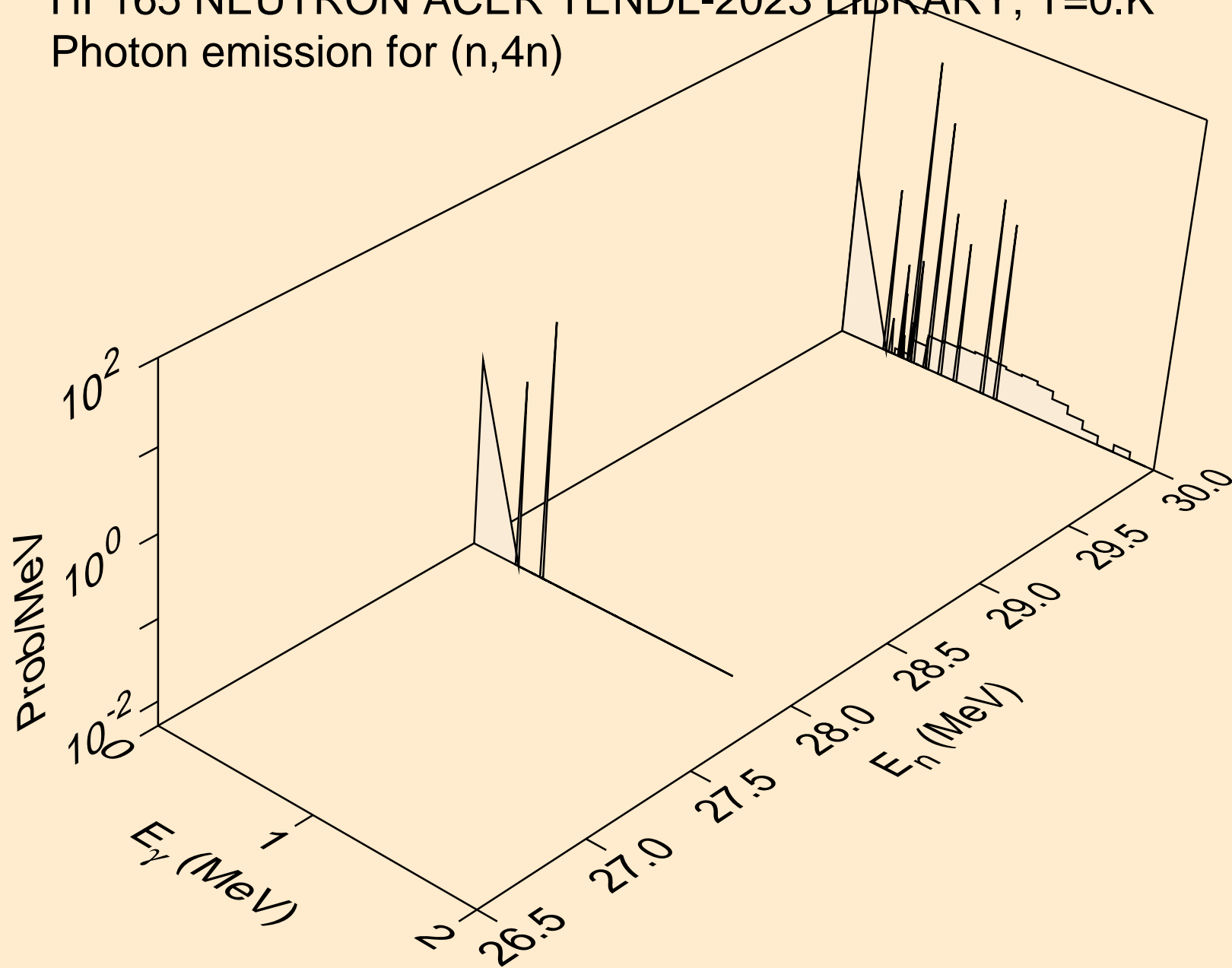
HF165 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)t



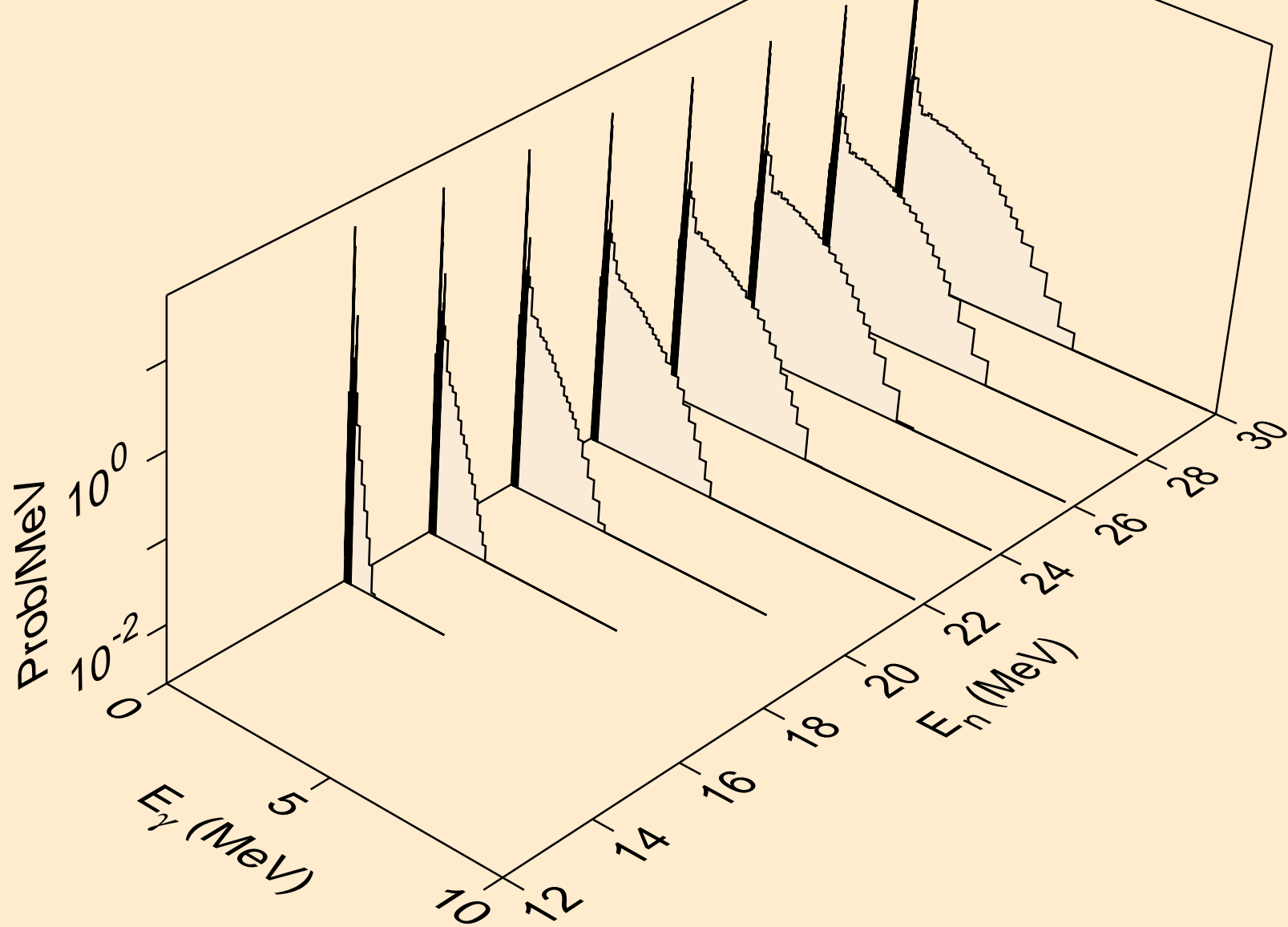
HF165 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)he3



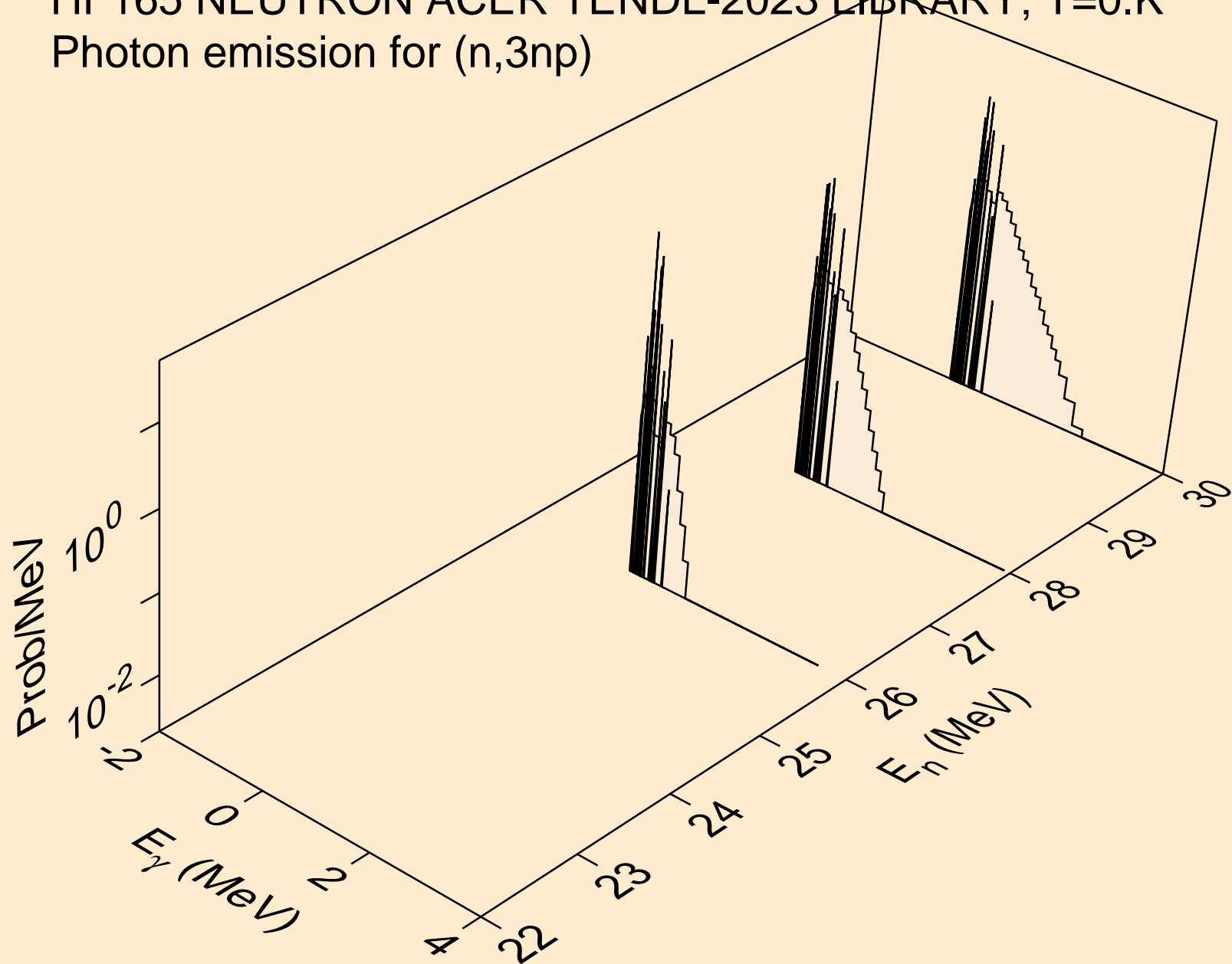
HF165 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,4n)



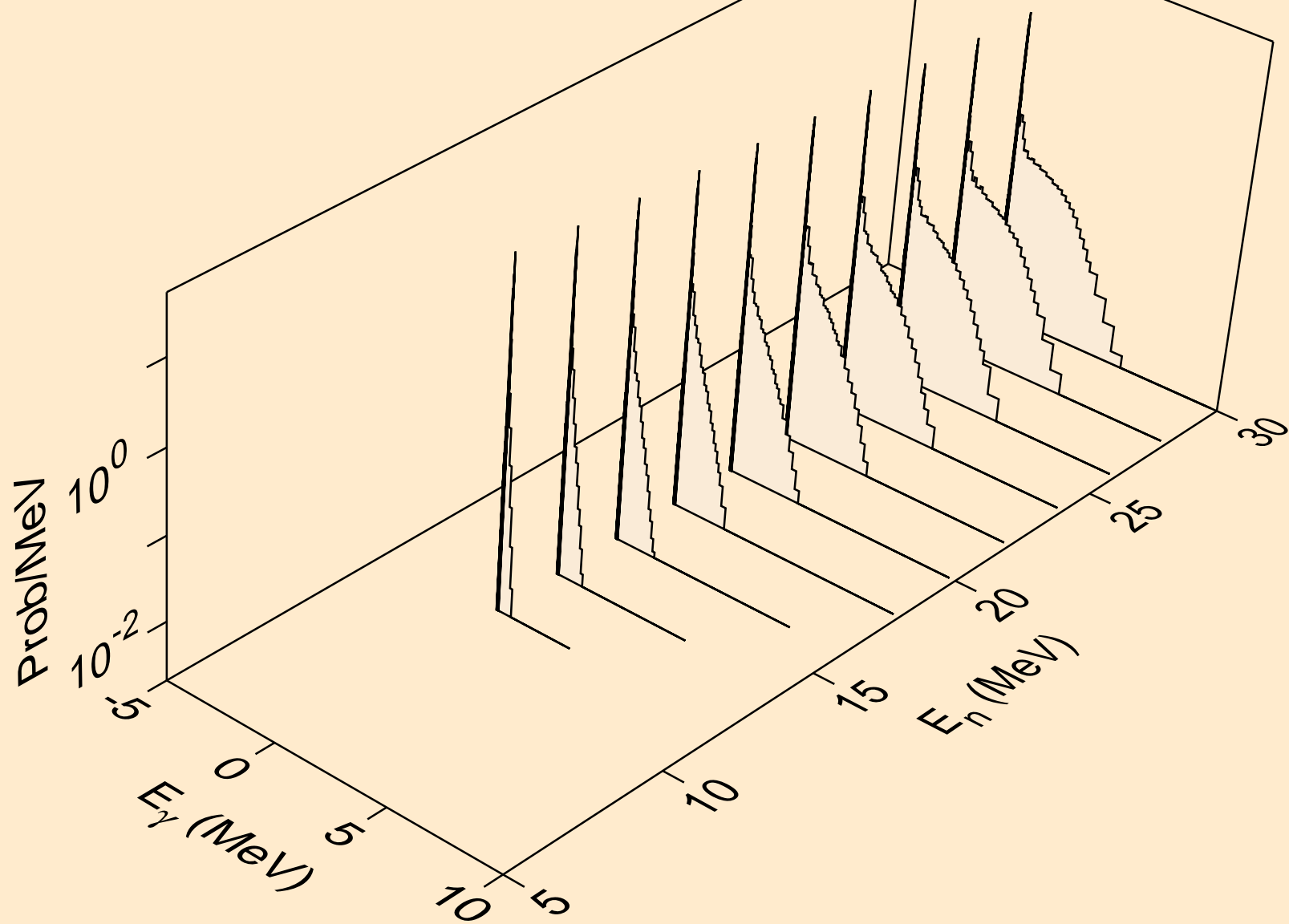
HF165 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2np)



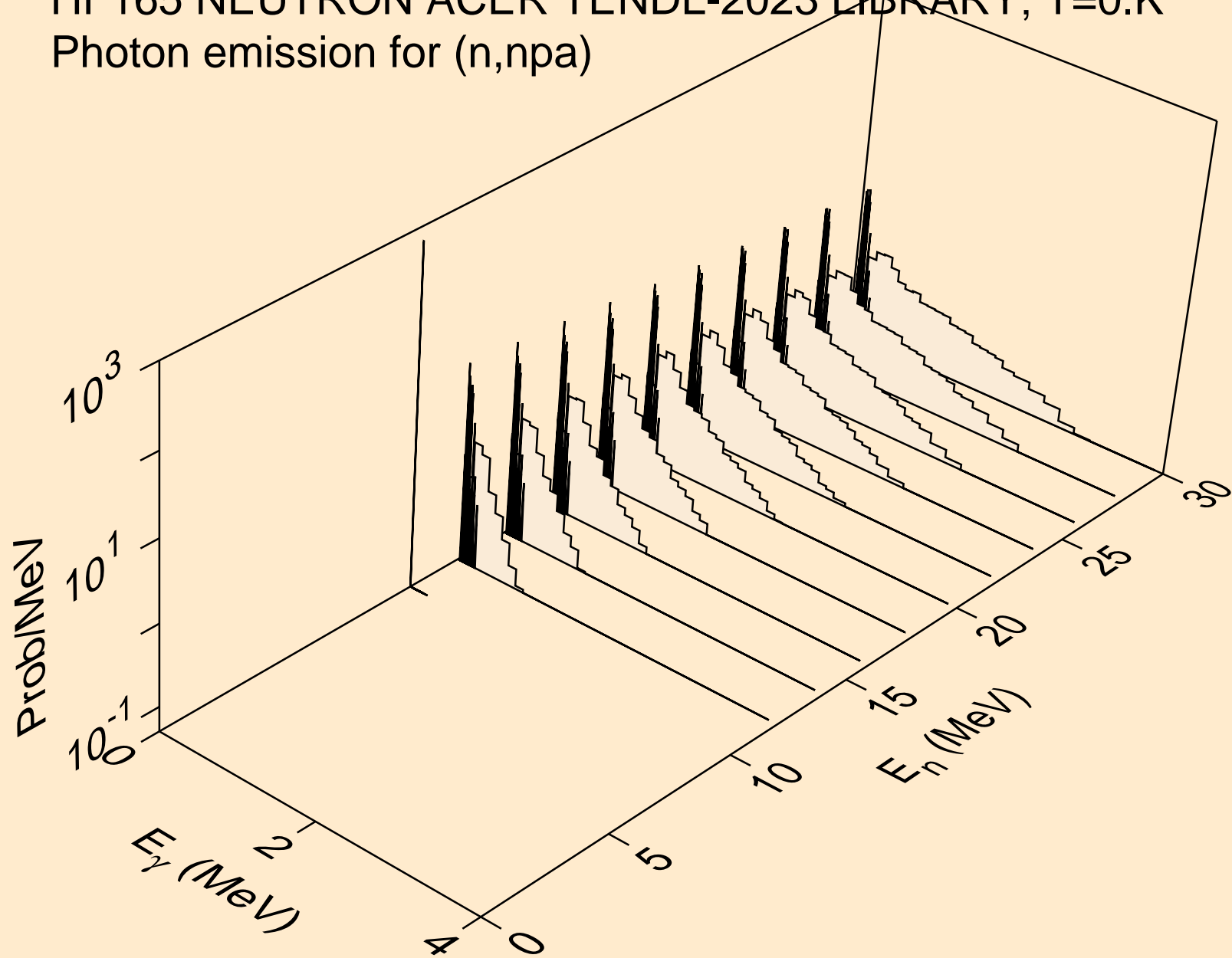
HF165 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,3np)



HF165 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n2p)

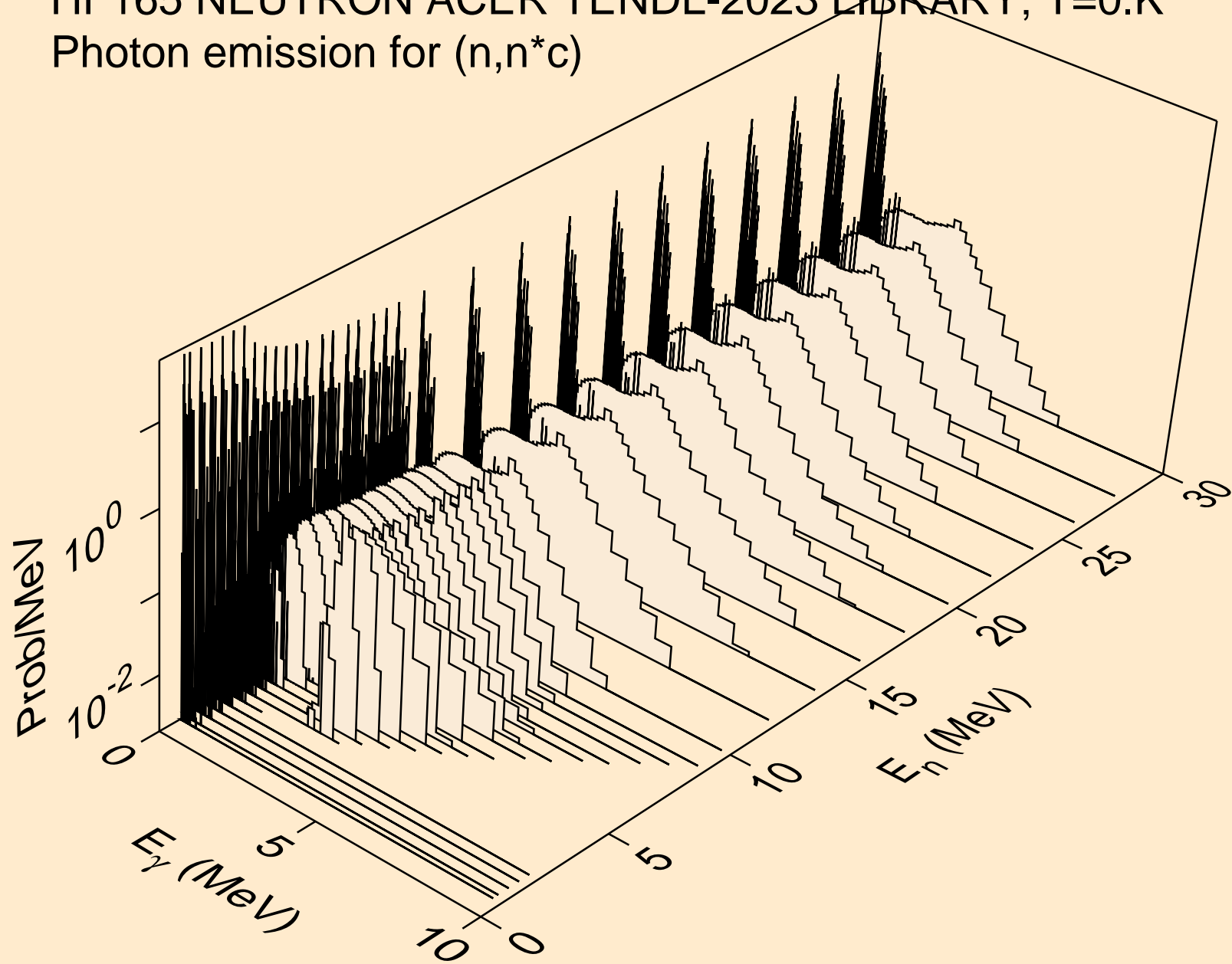


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Photon emission for (n,npa)

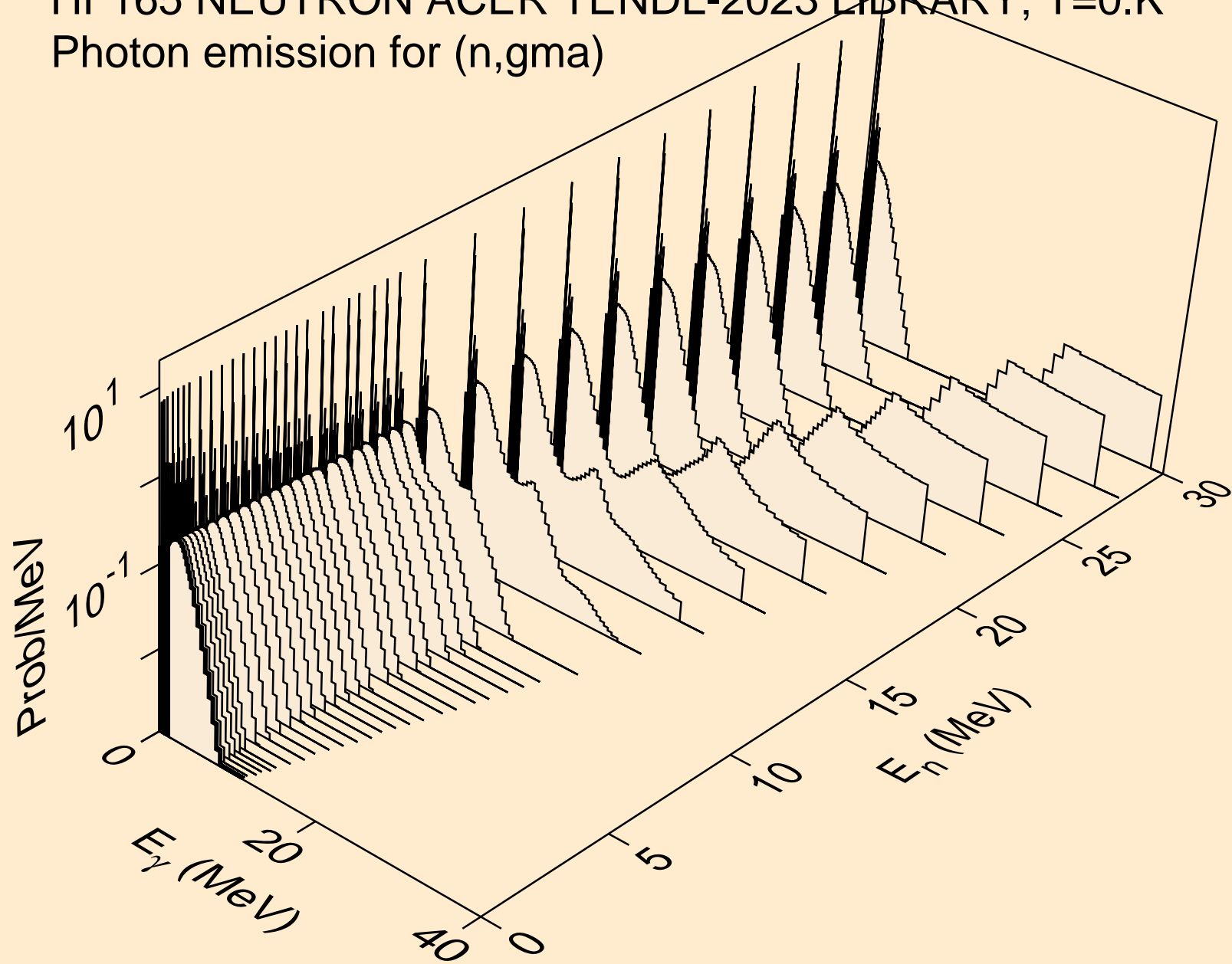




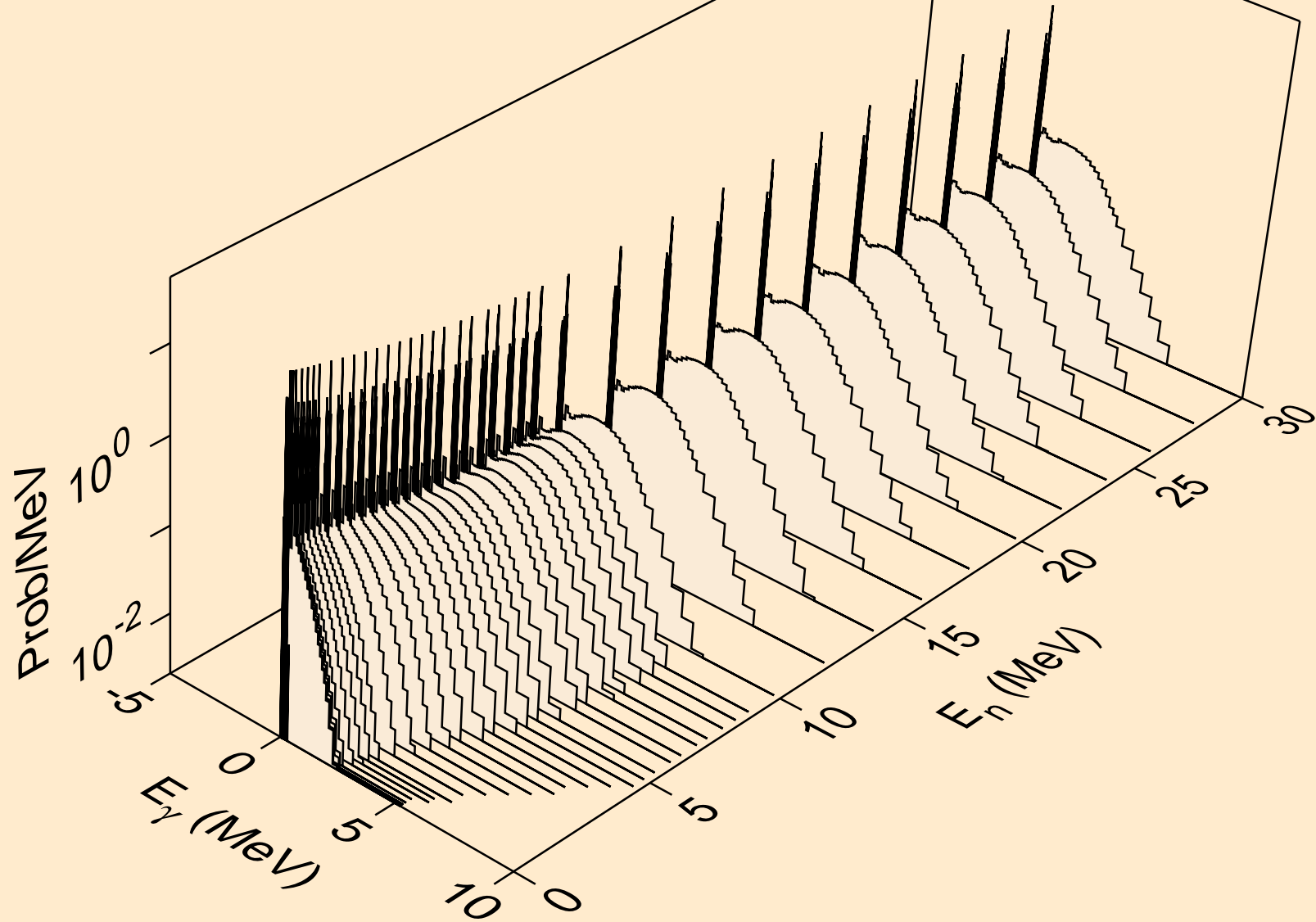
HF165 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*c)



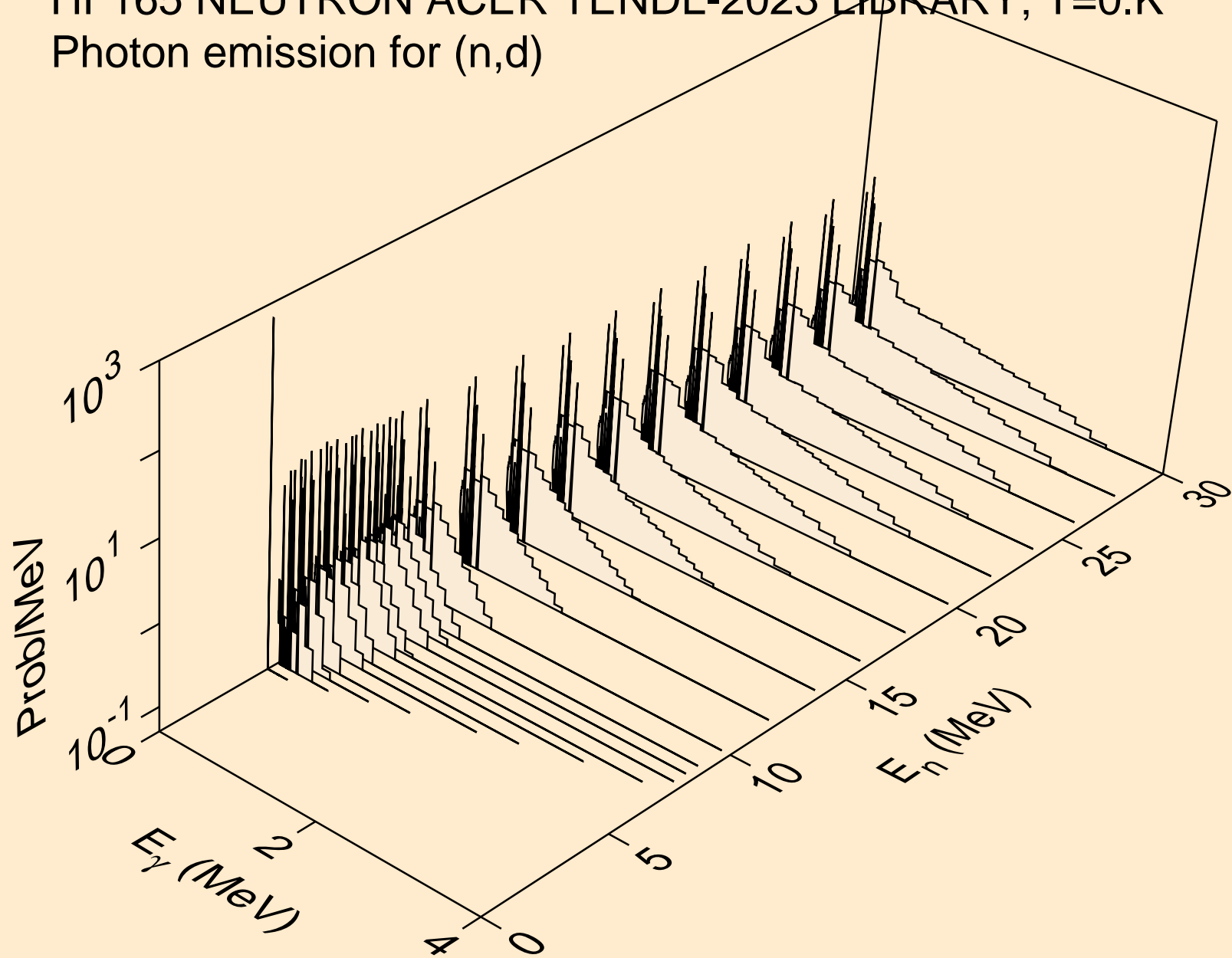
HF165 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,gma)



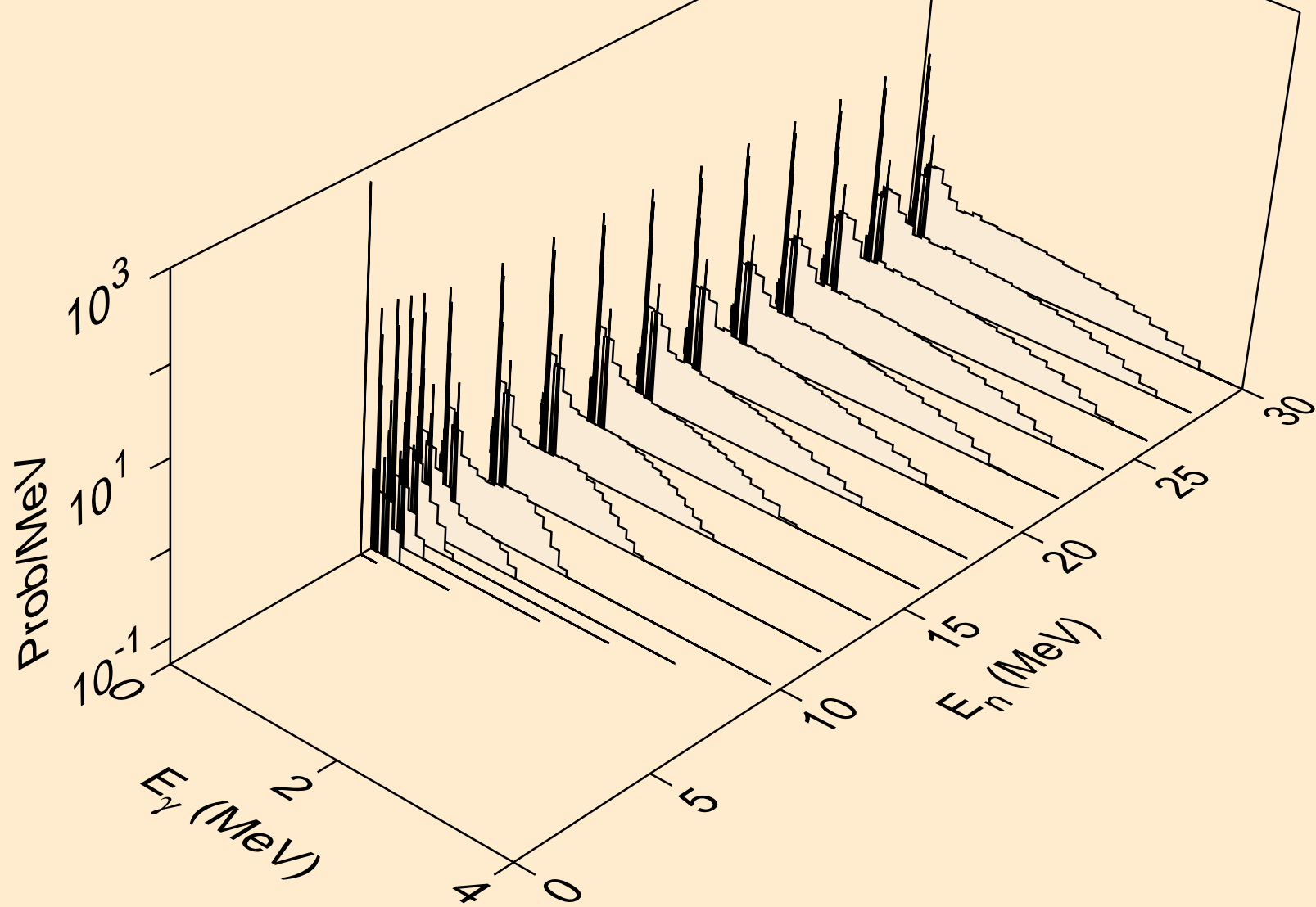
HF165 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,p)



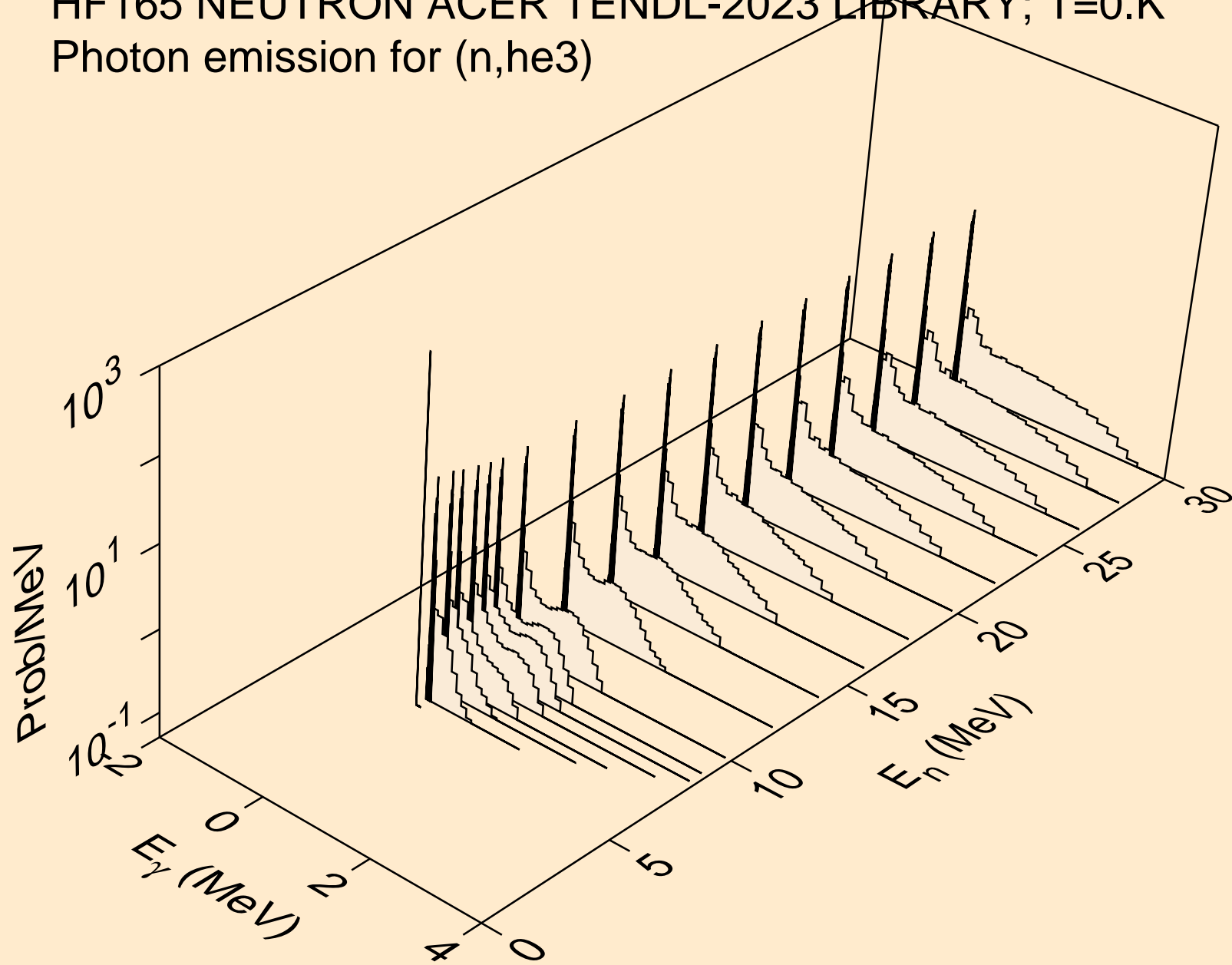
HF165 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,d)



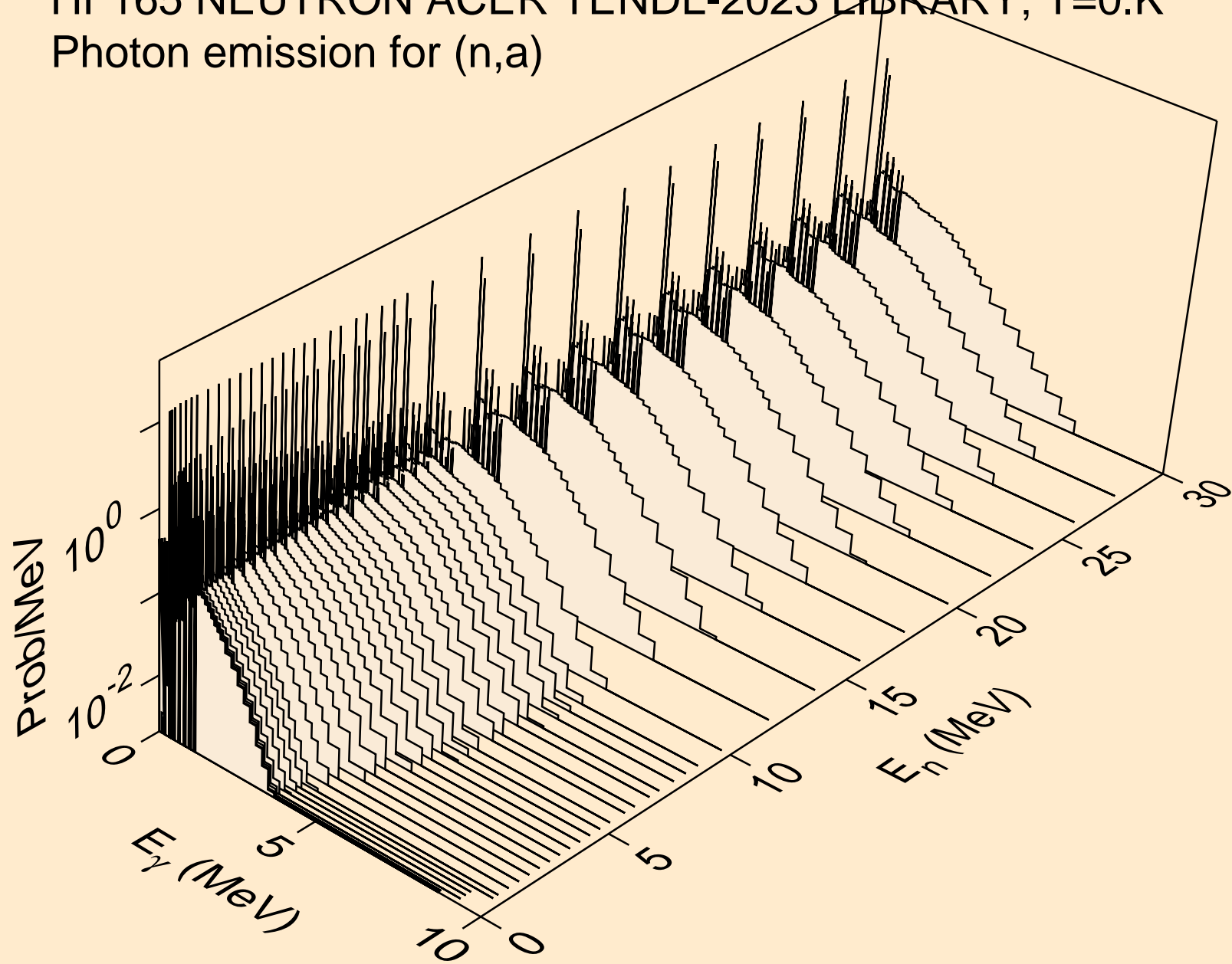
HF165 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,t)



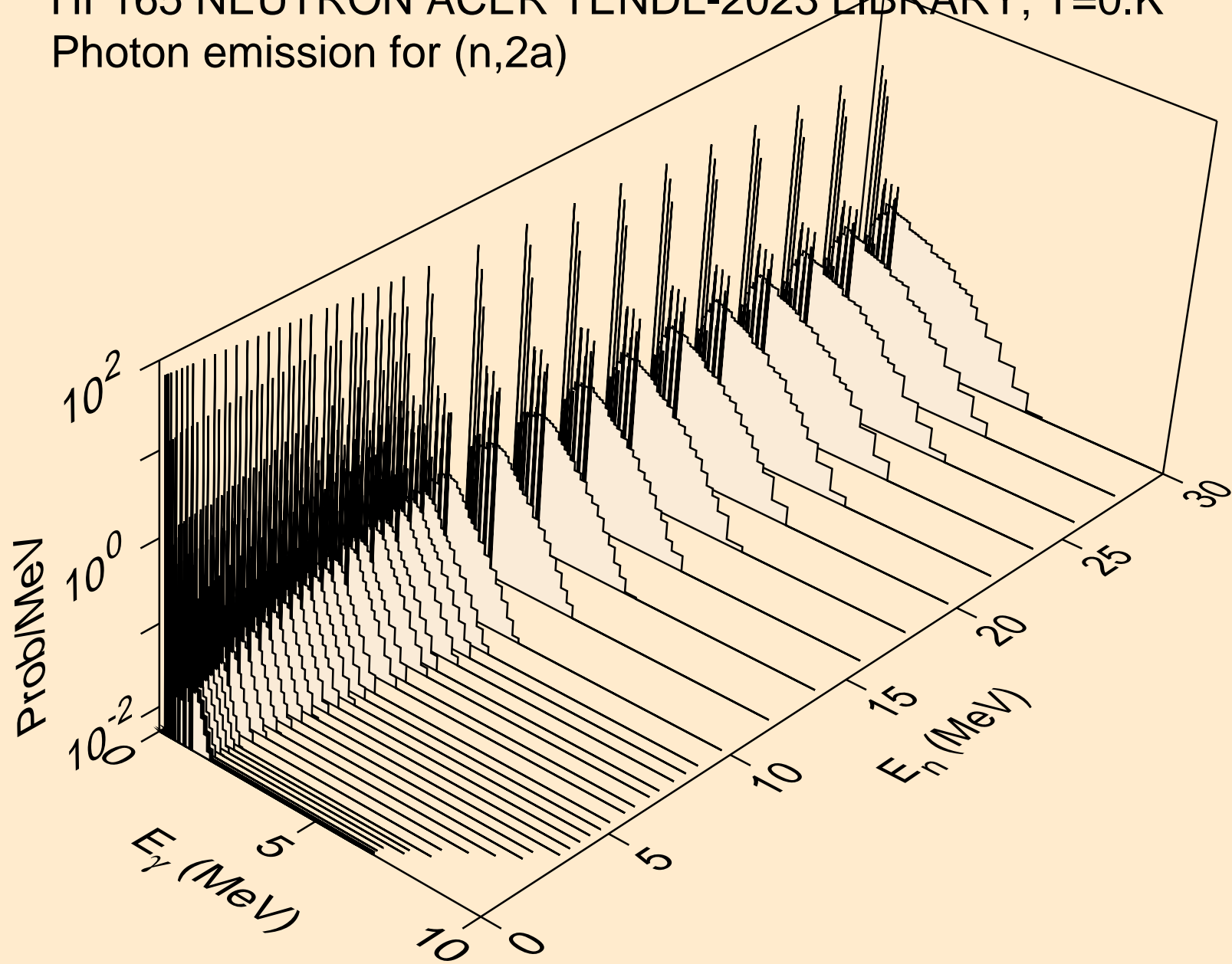
HF165 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,he3)



HF165 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,a)

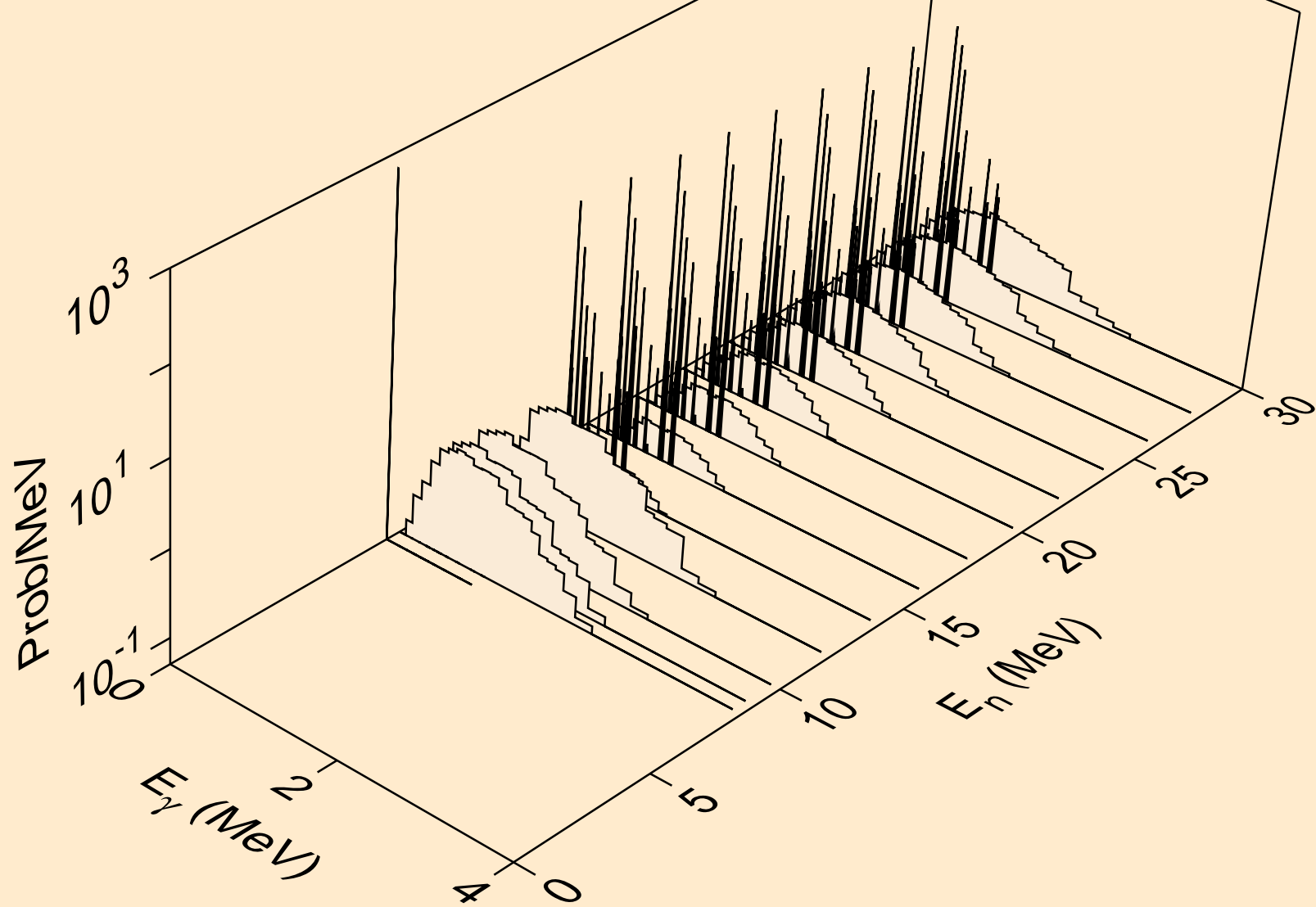


HF165 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2a)

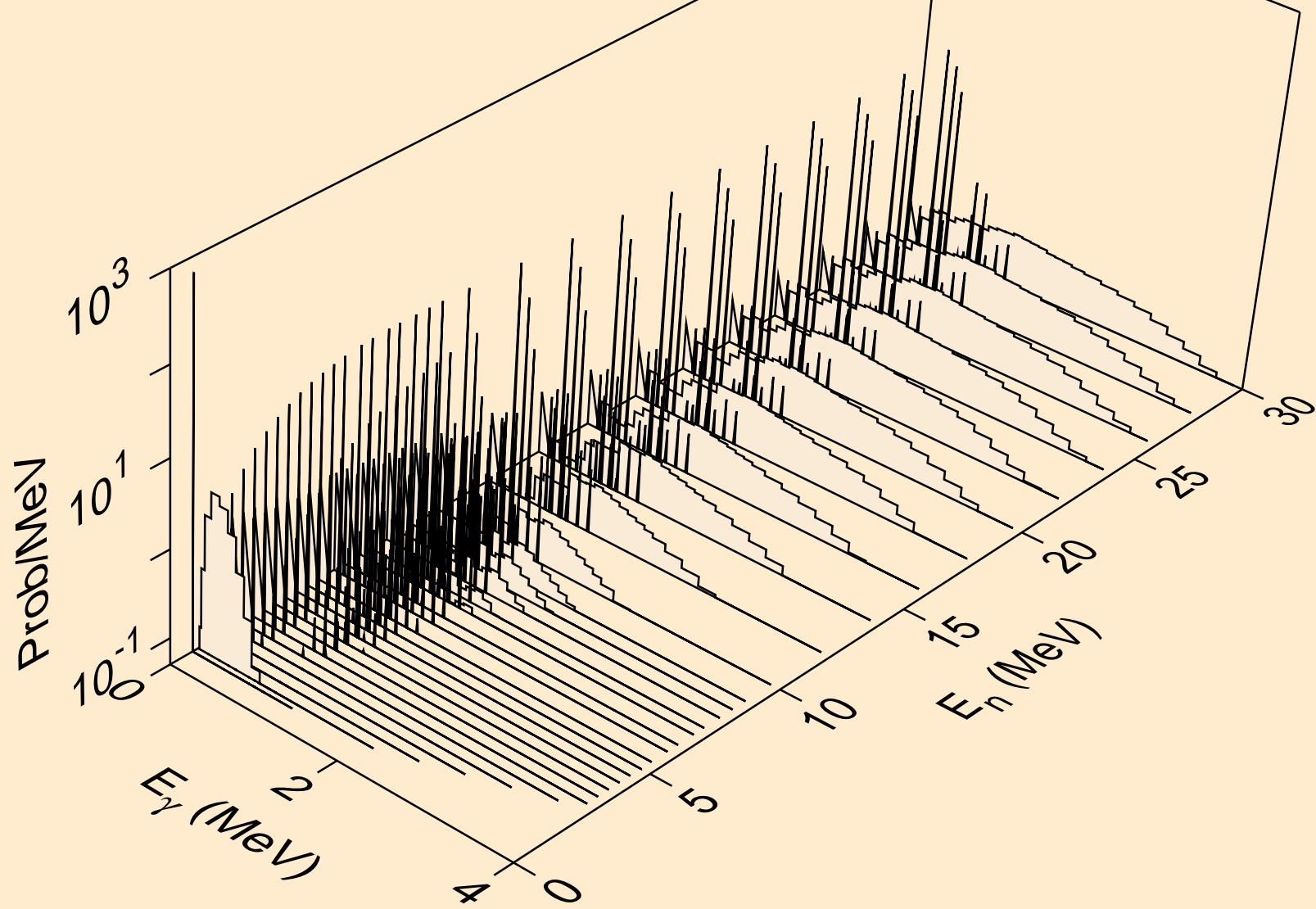




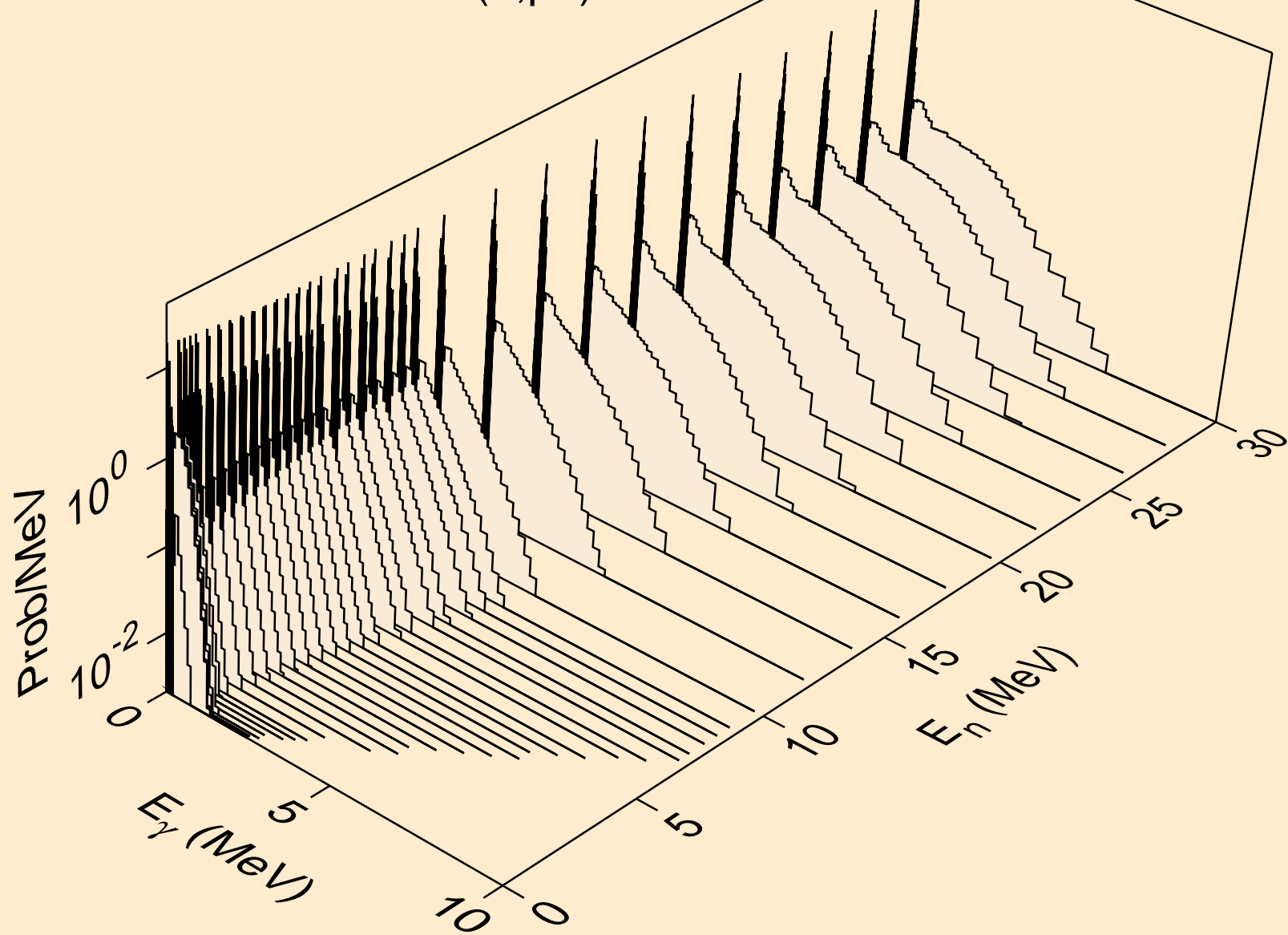
HF165 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,3a)



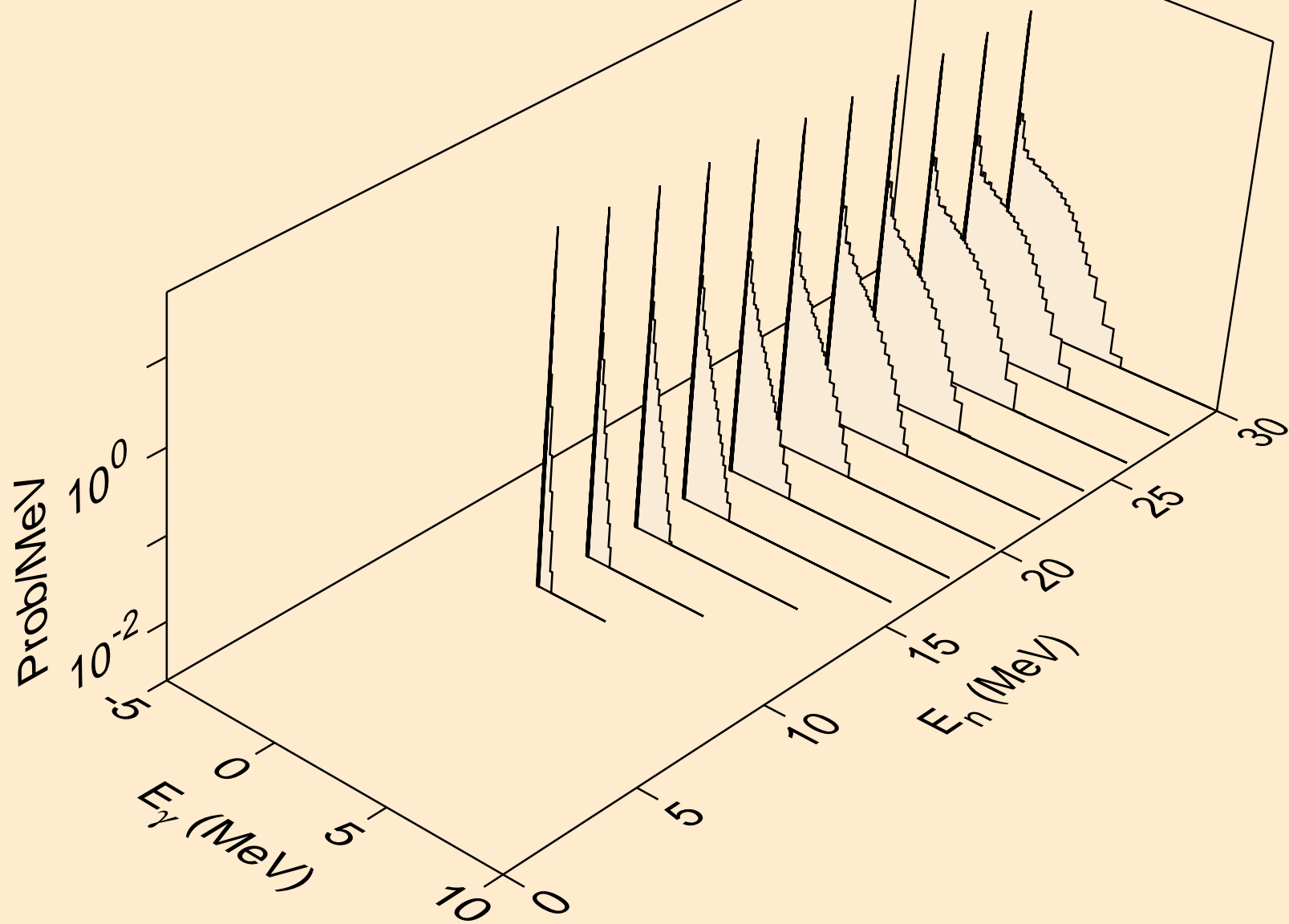
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Photon emission for (n,2p)



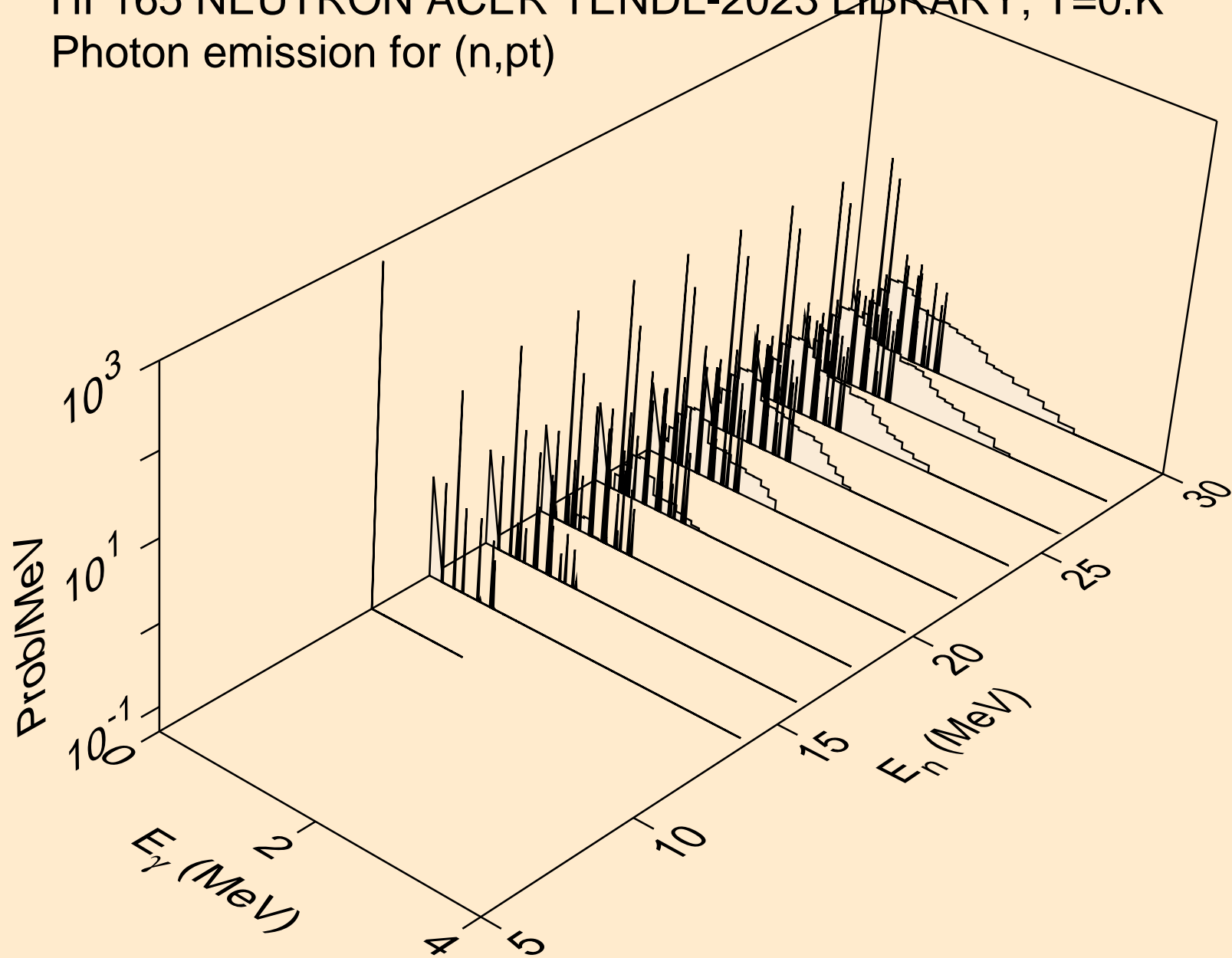
HF165 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,p)



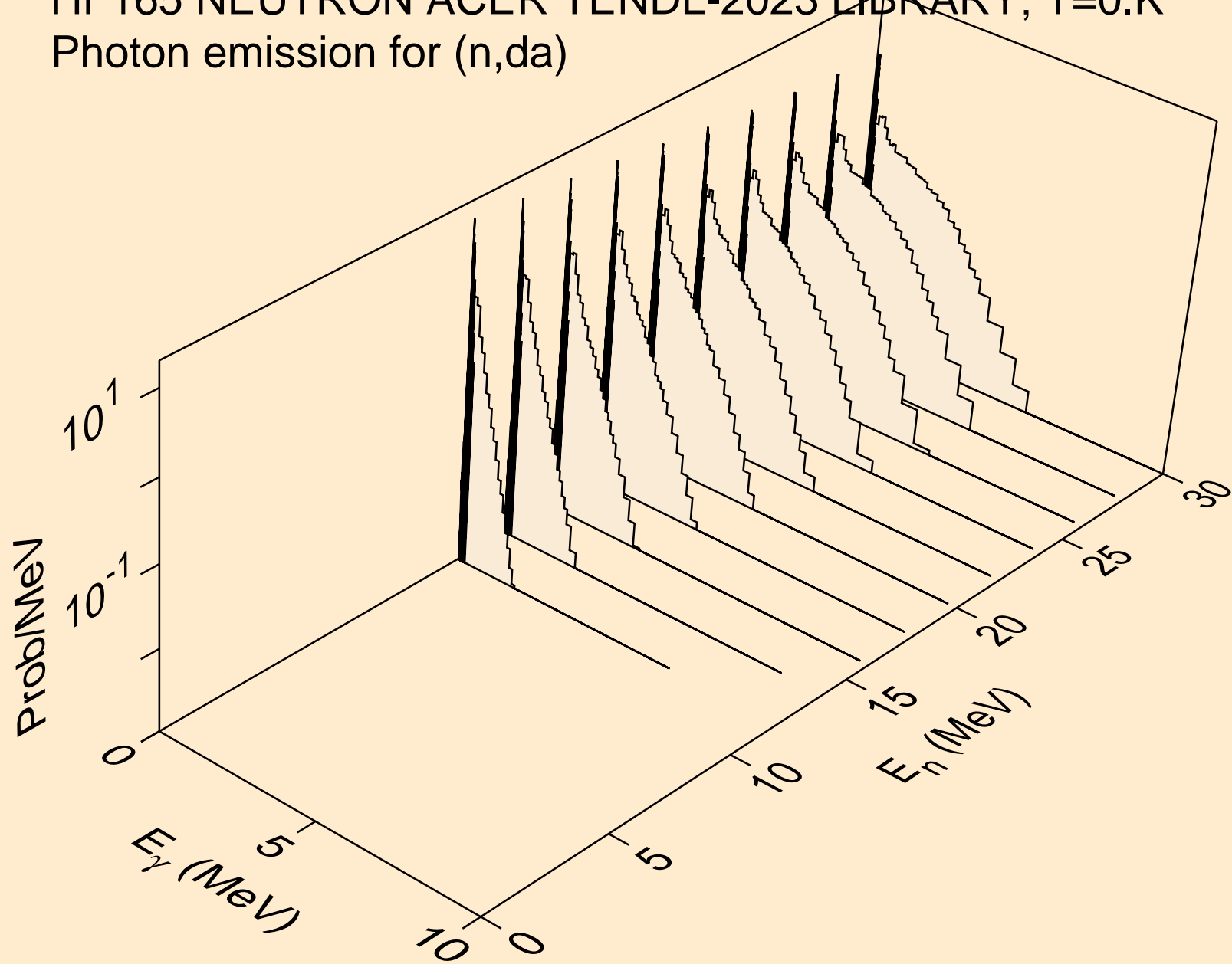
HF165 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,pd)



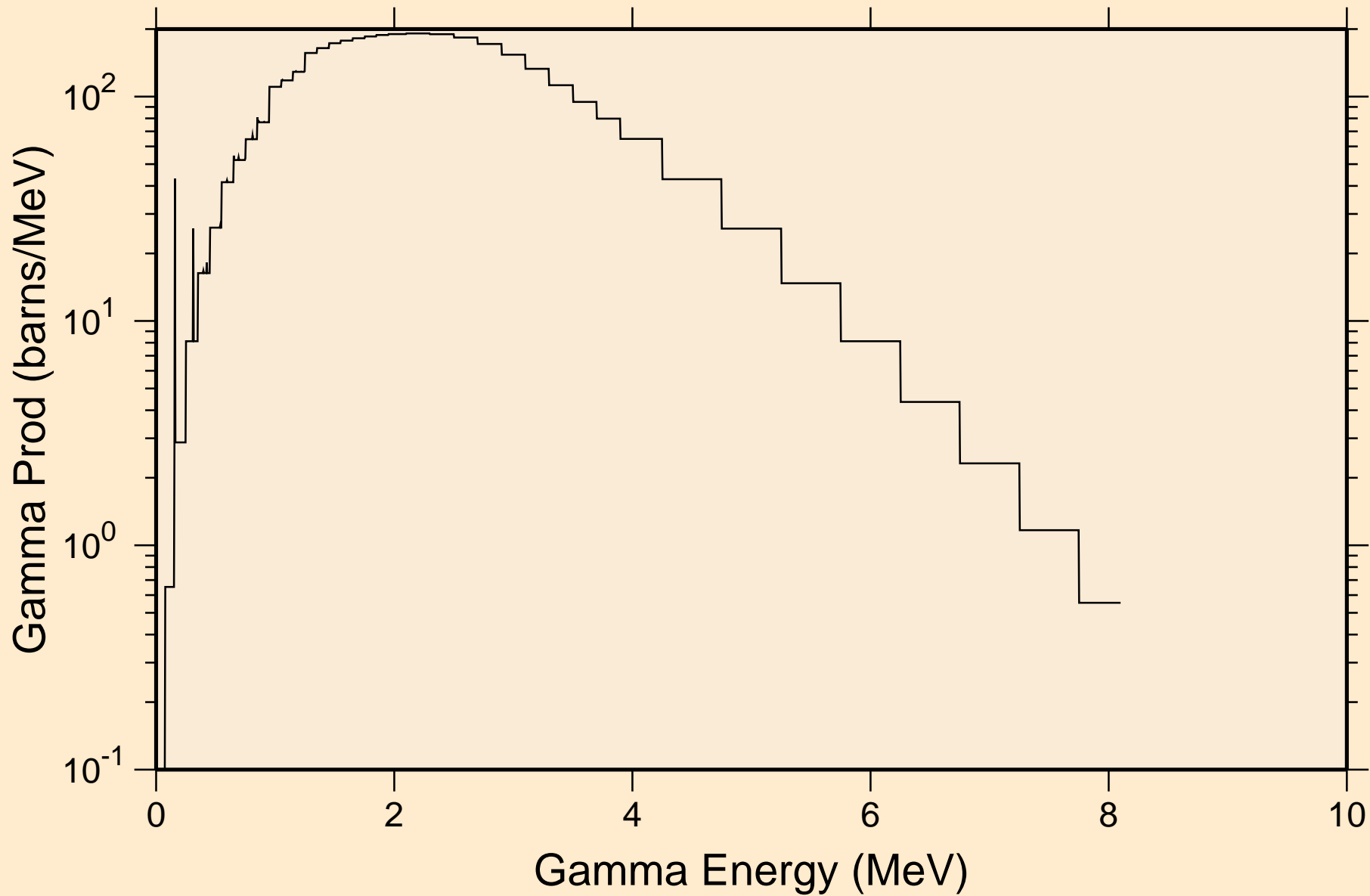
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Photon emission for (n,pt)



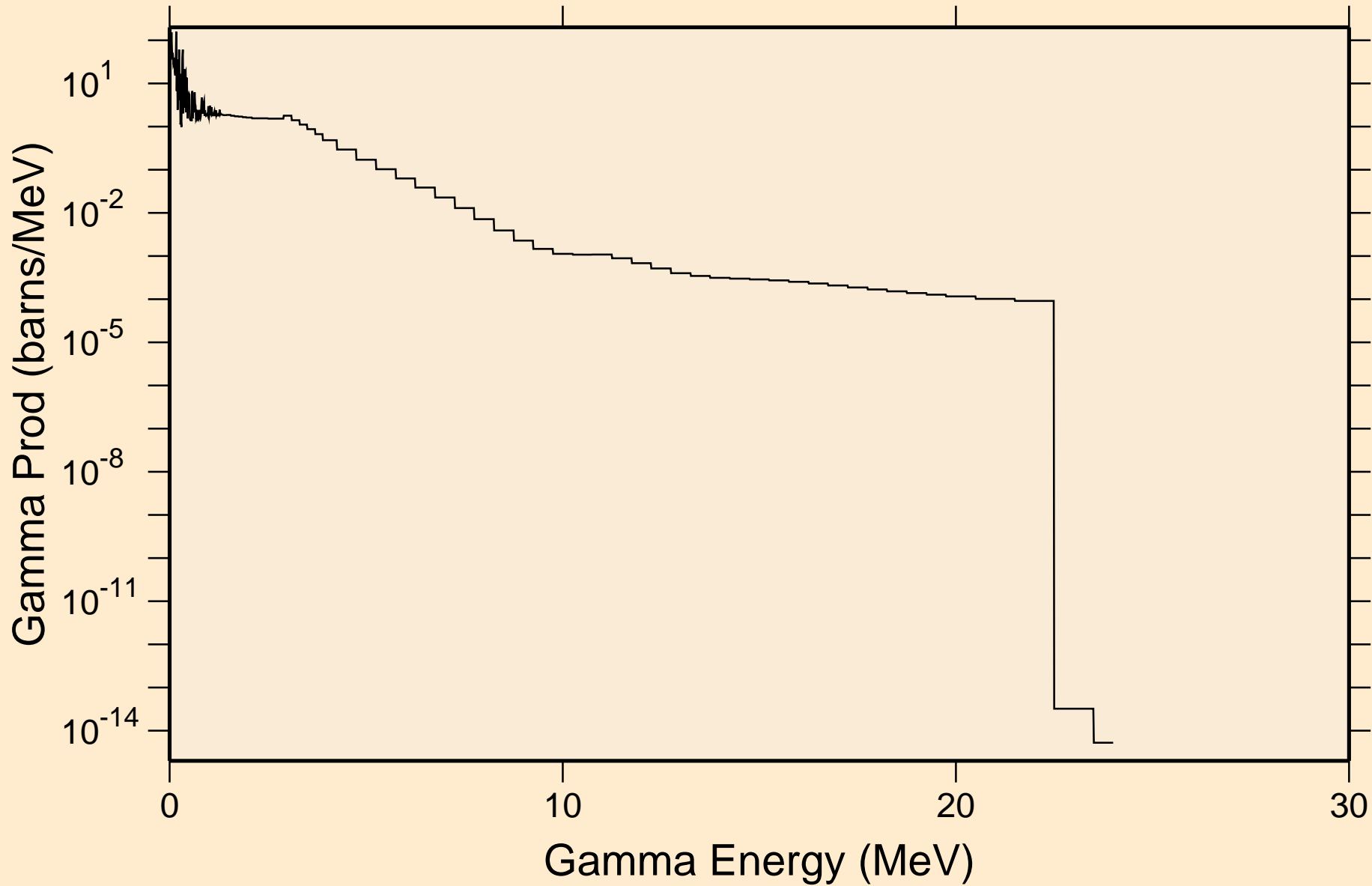
HF165 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,da)



HF165 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
thermal capture photon spectrum



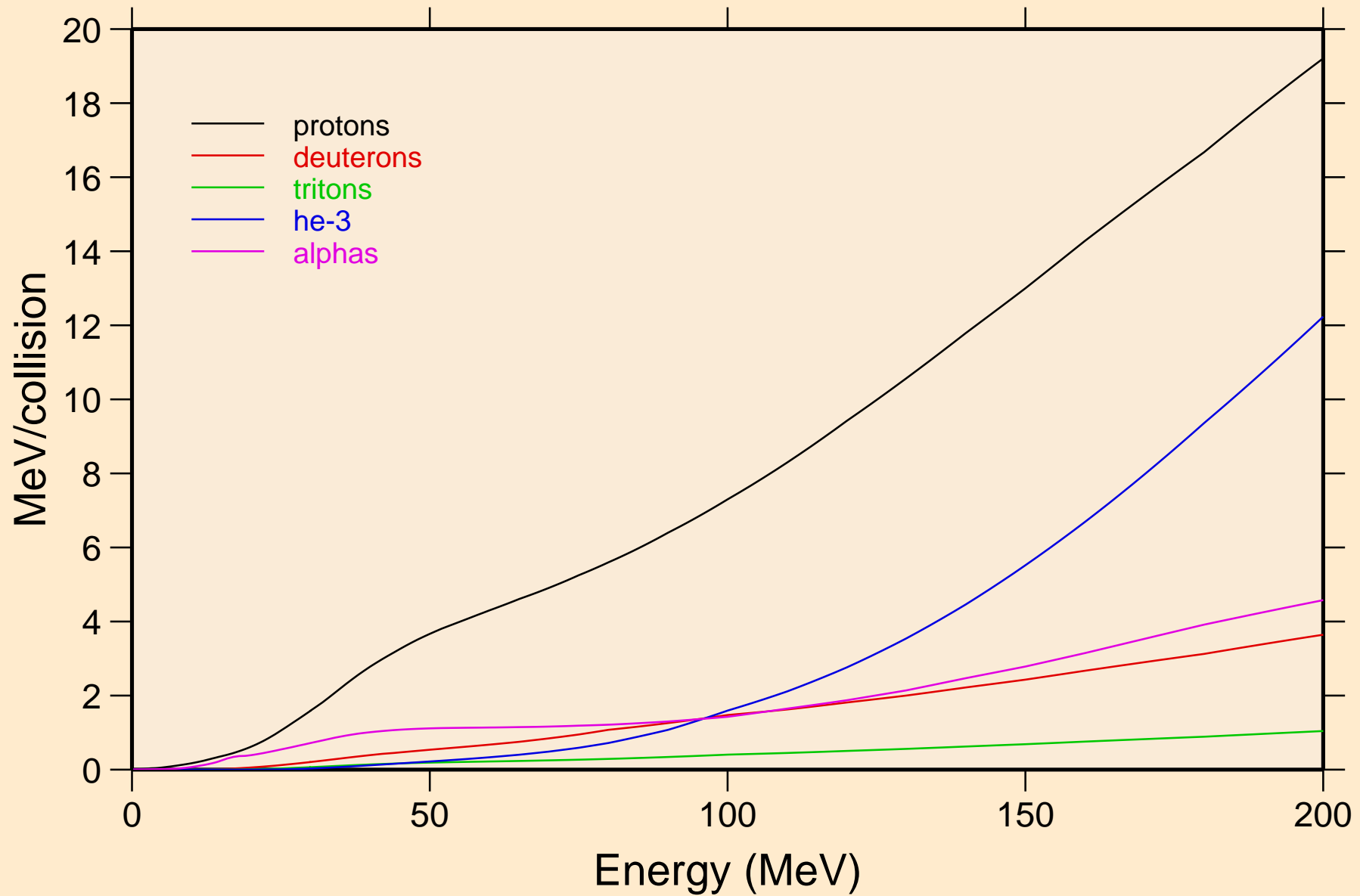
HF165 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
14 MeV photon spectrum





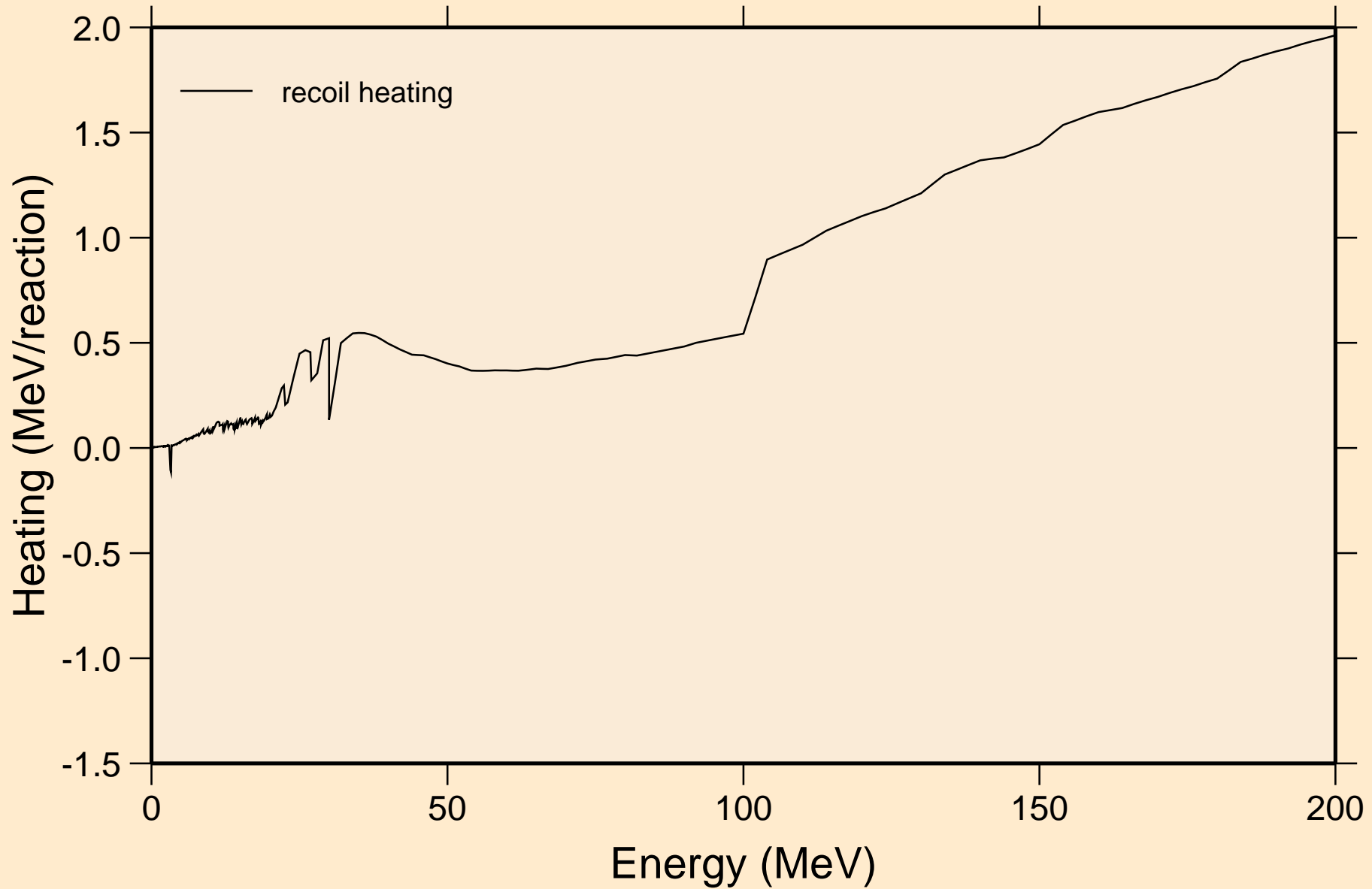
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## Particle heating contributions

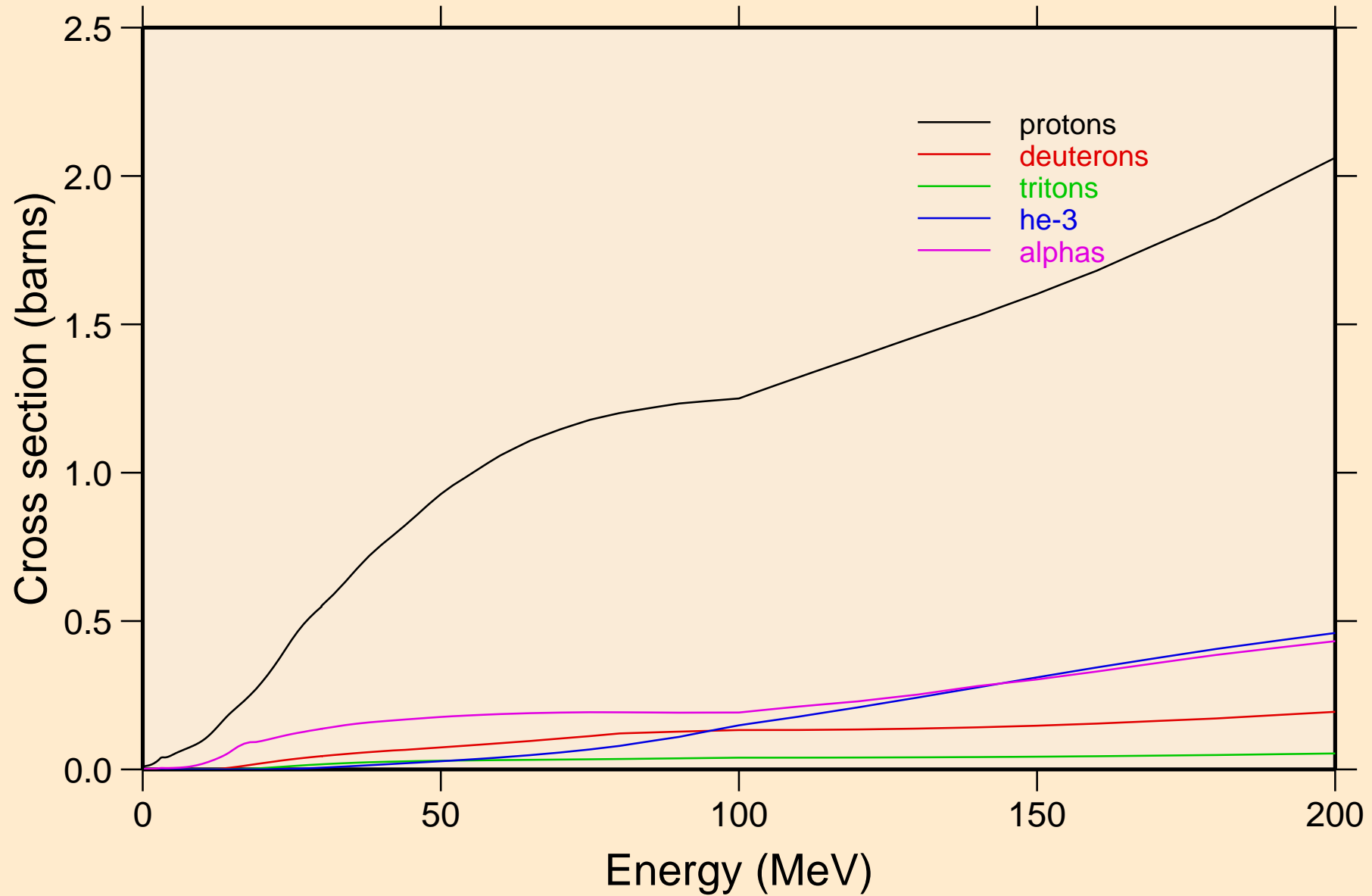


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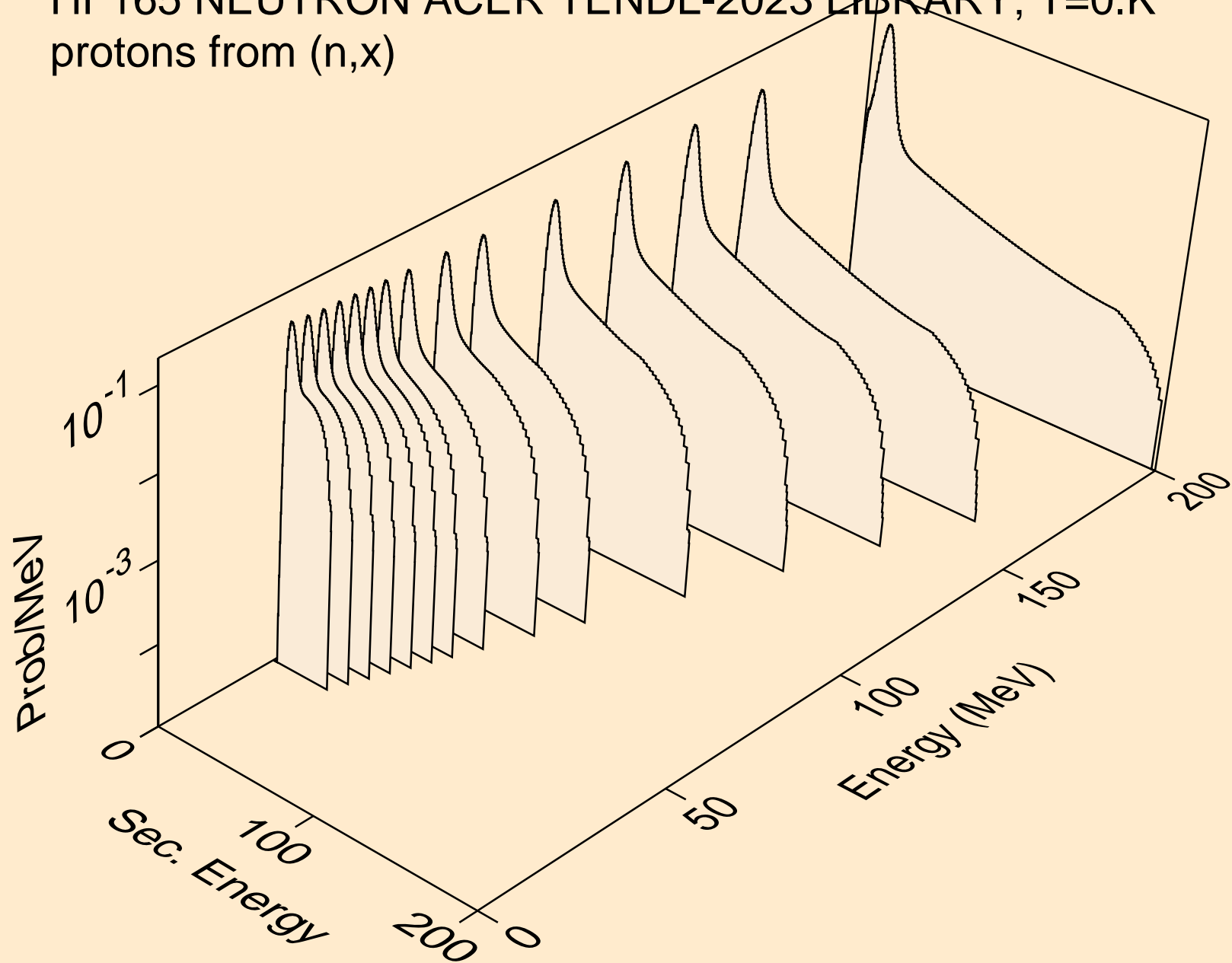
## Recoil Heating



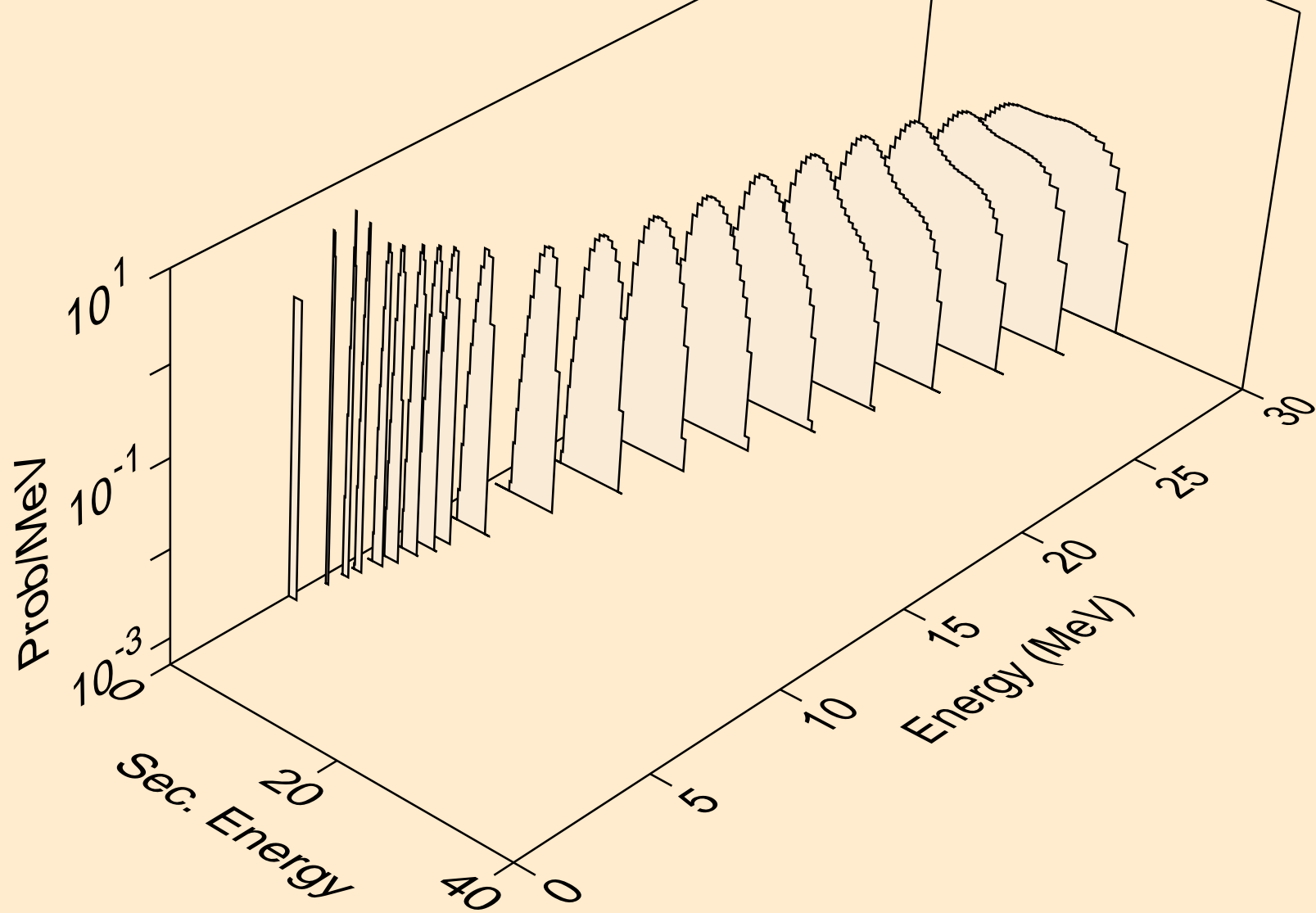
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Particle production cross sections



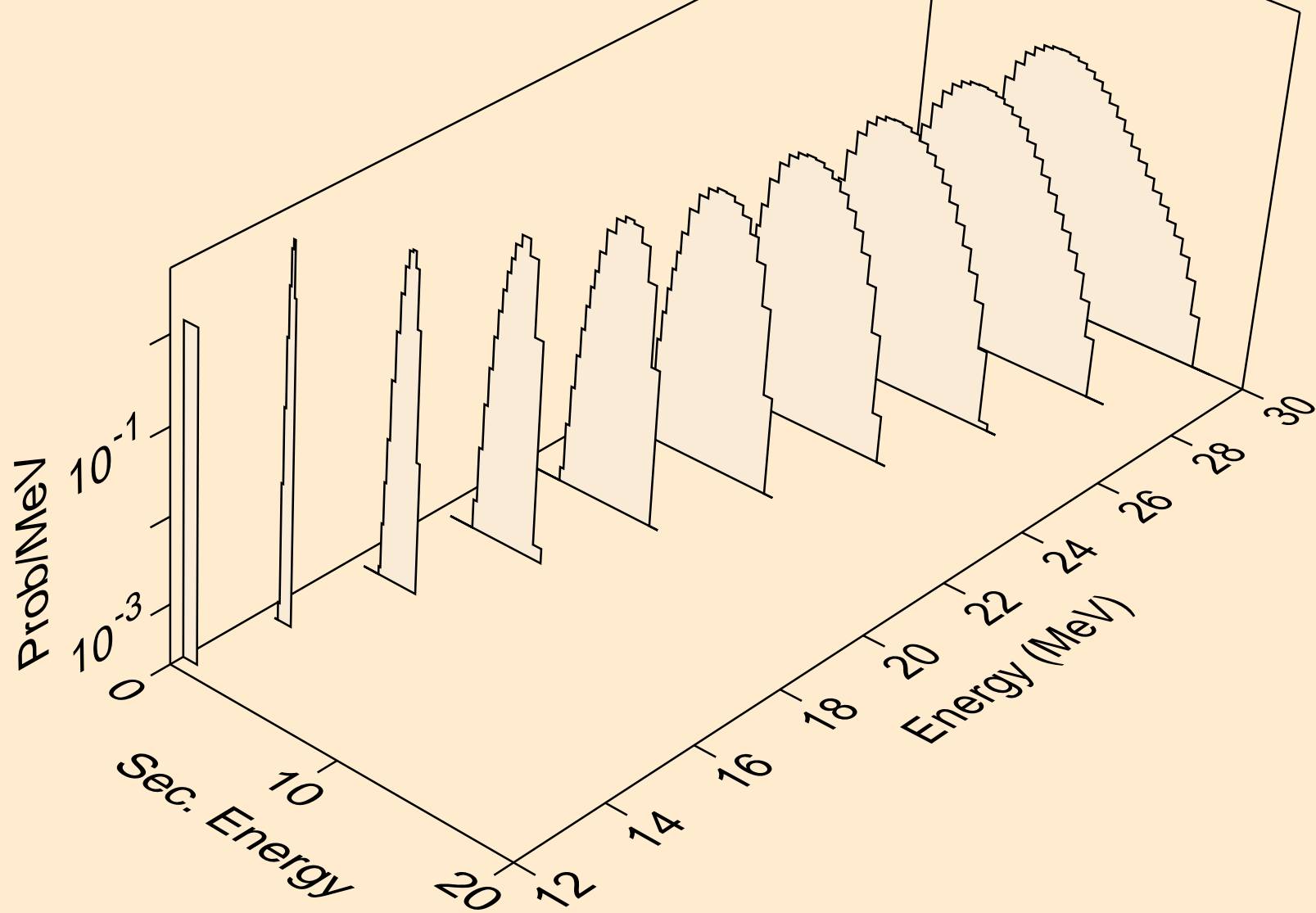
HF165 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
protons from (n,x)



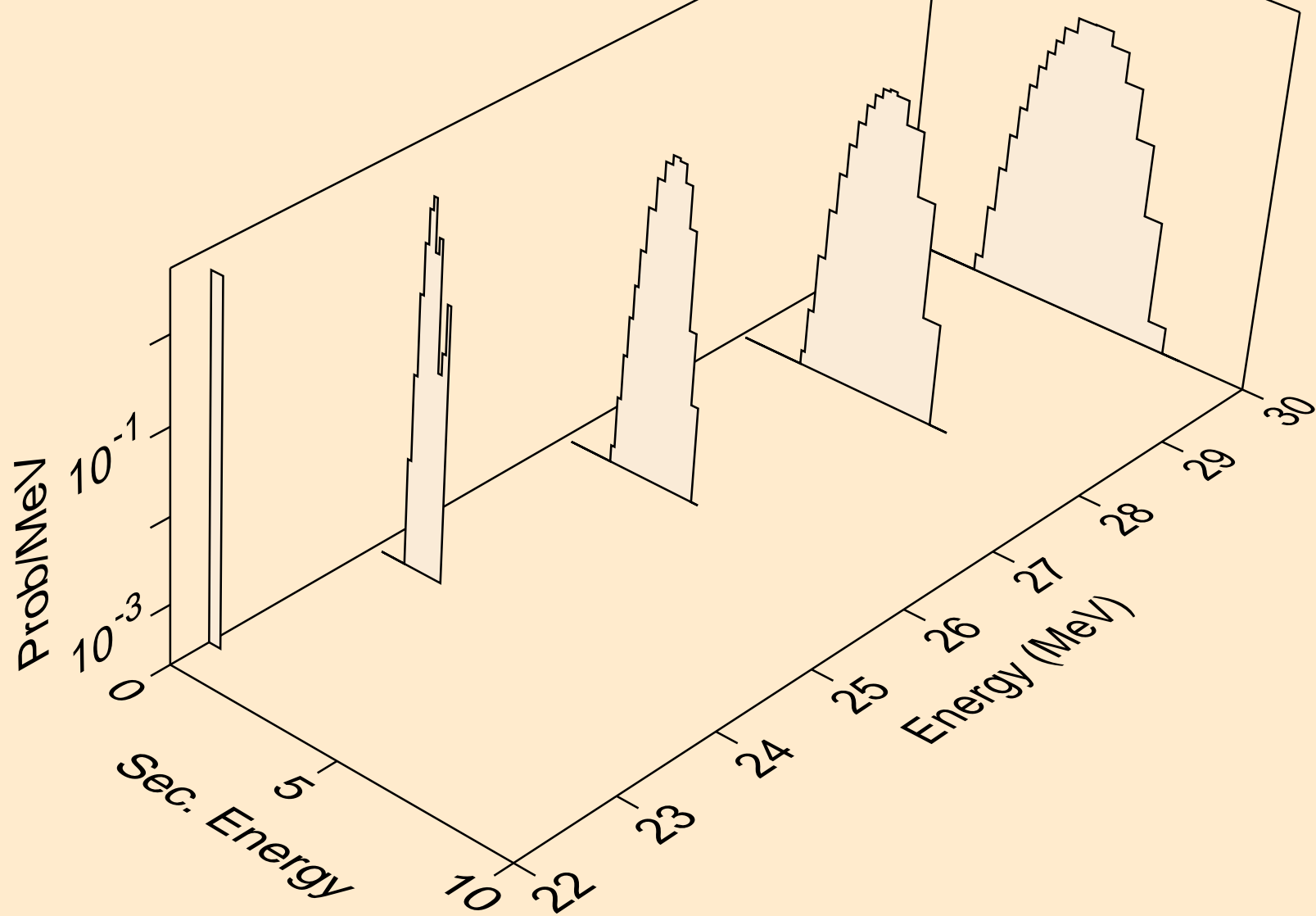
HF165 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
protons from (n,n\*)p



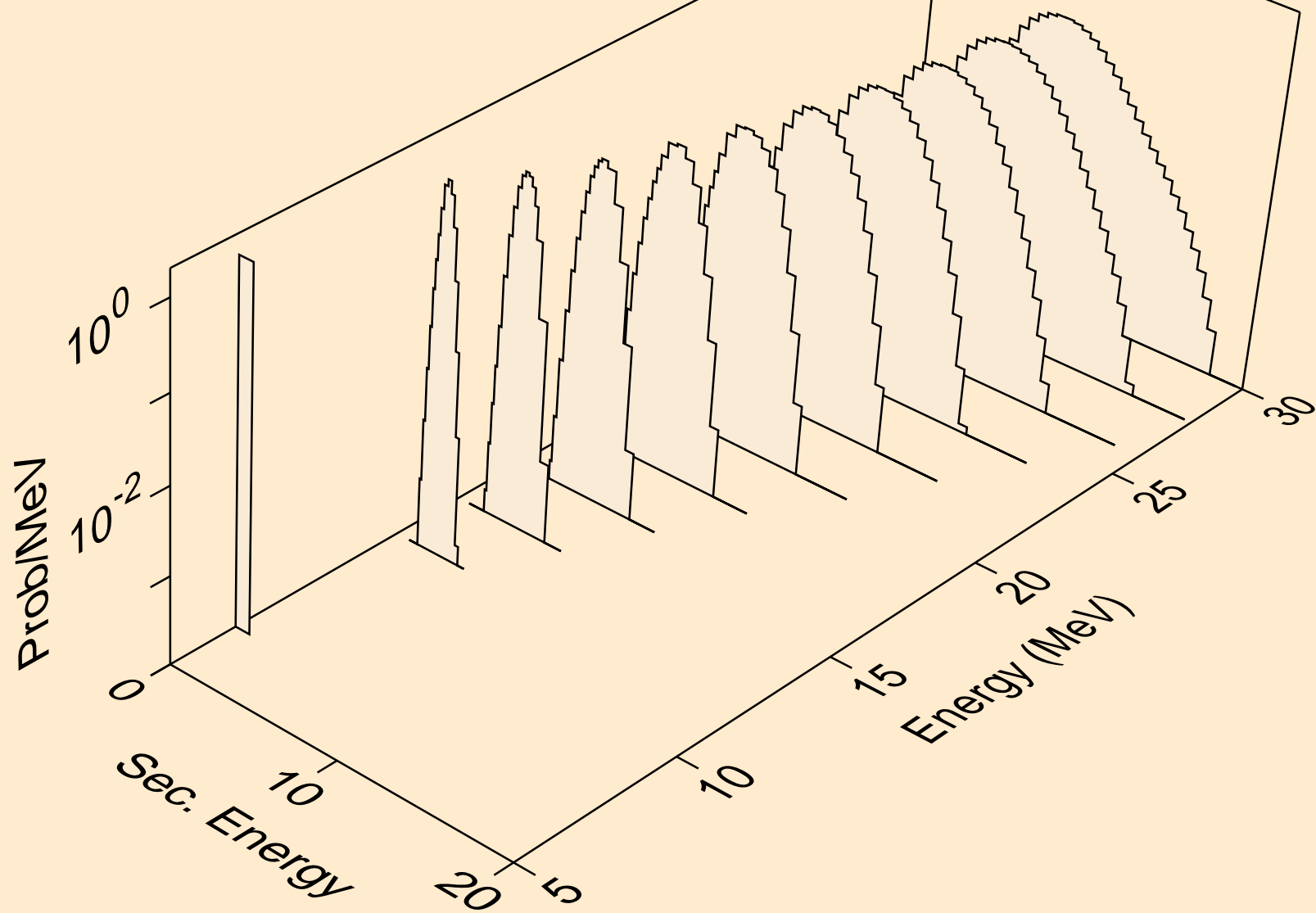
HF165 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
protons from (n,2np)



HF165 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
protons from (n,3np)

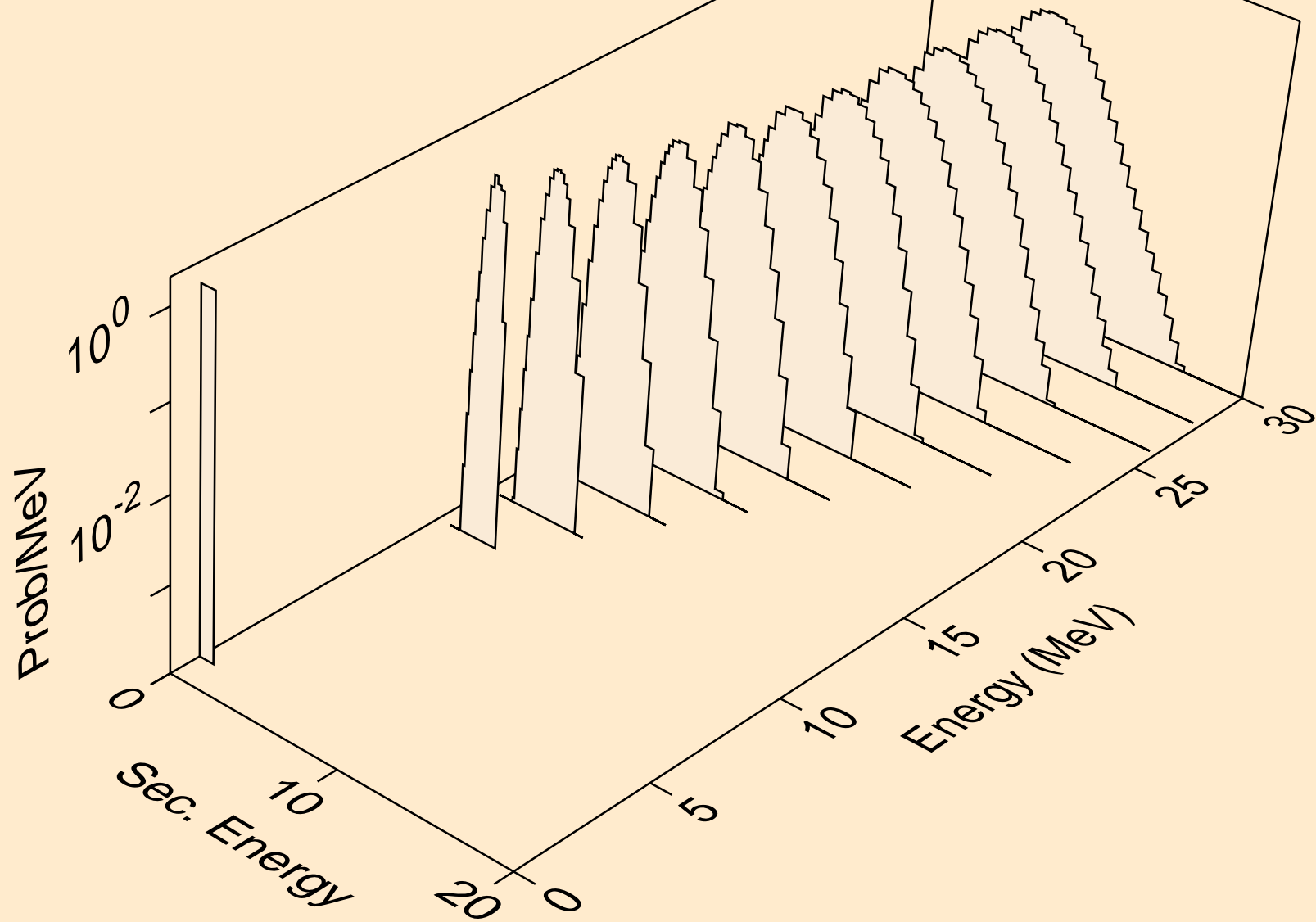


HF165 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
protons from (n,n2p)

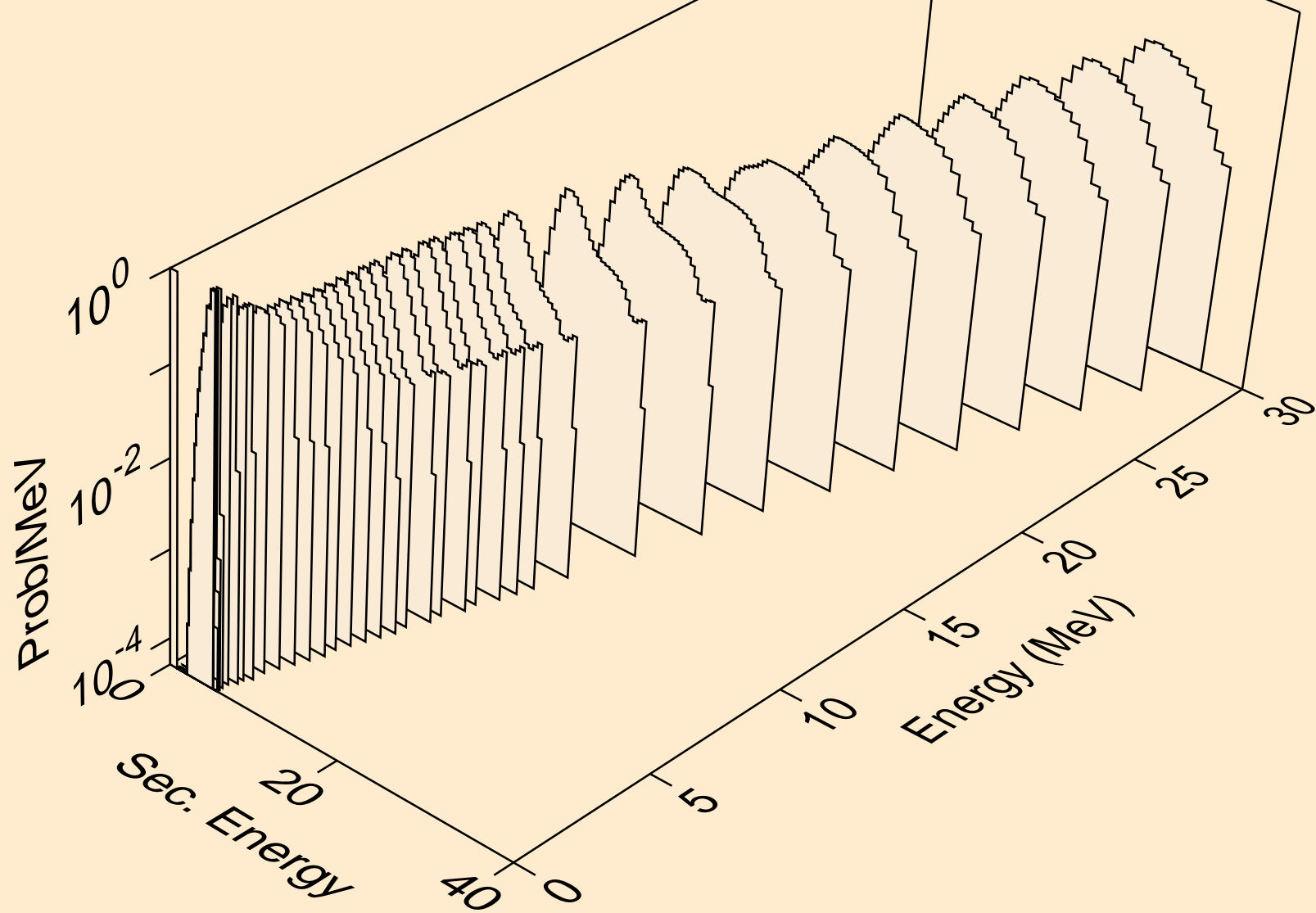




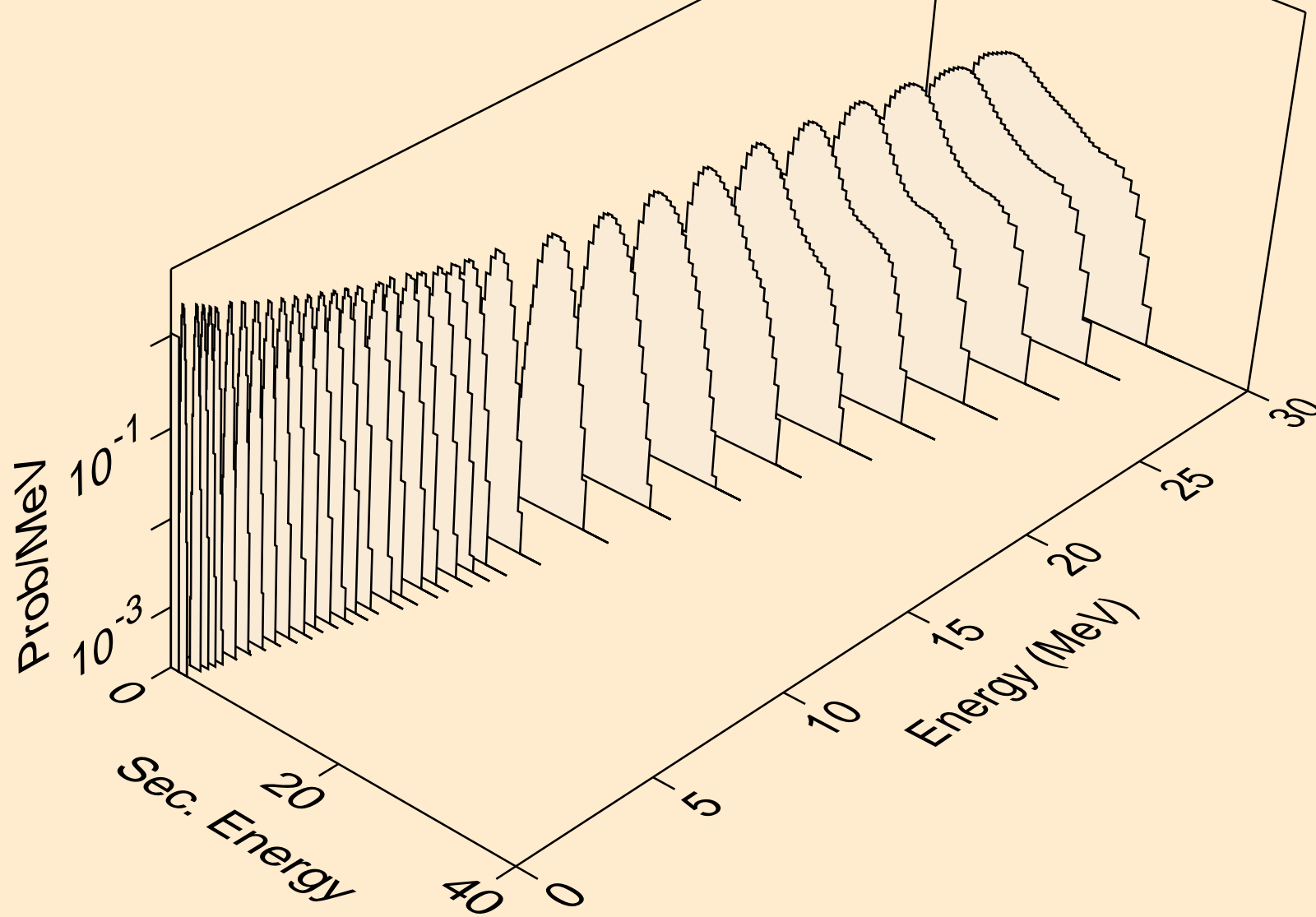
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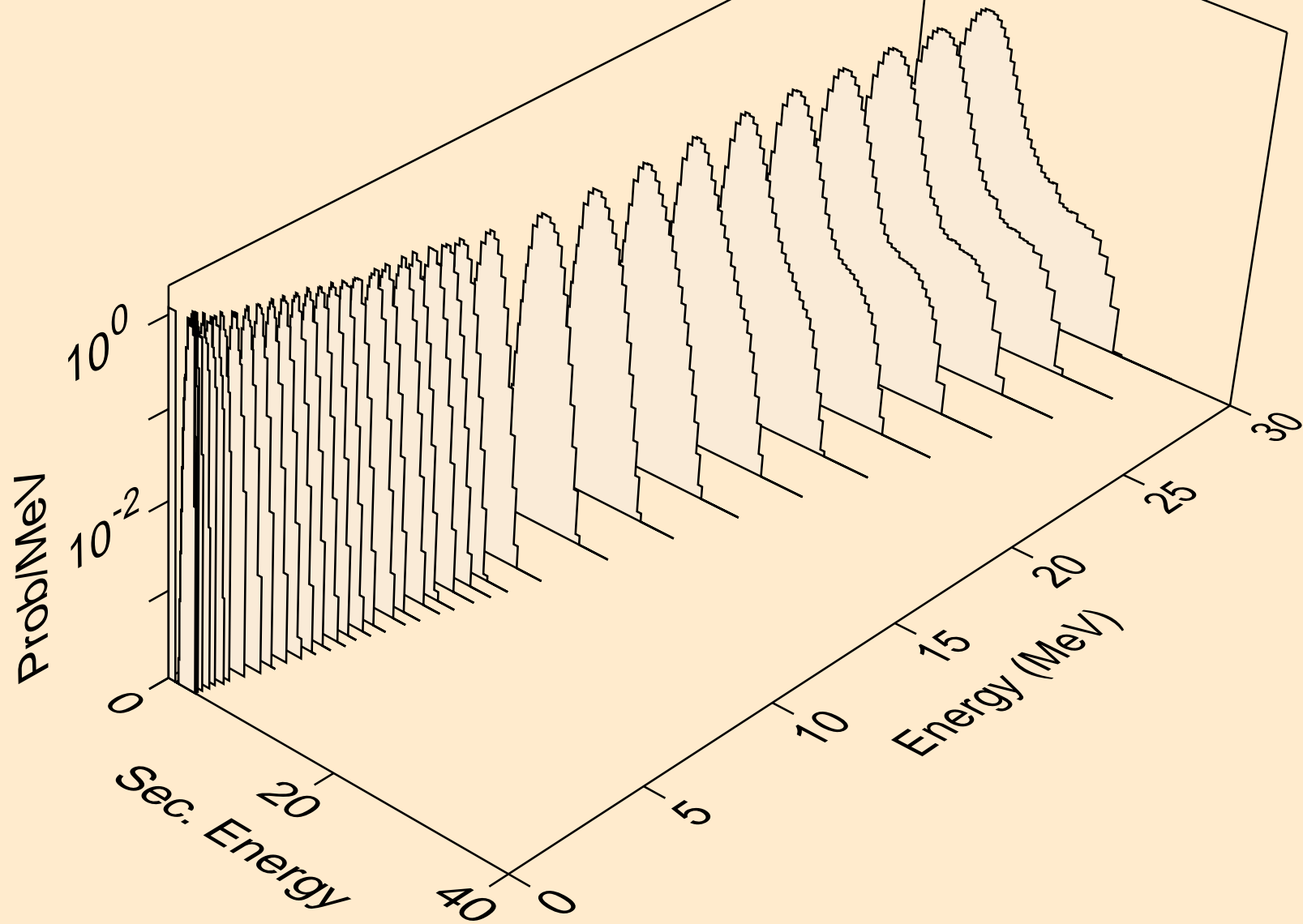
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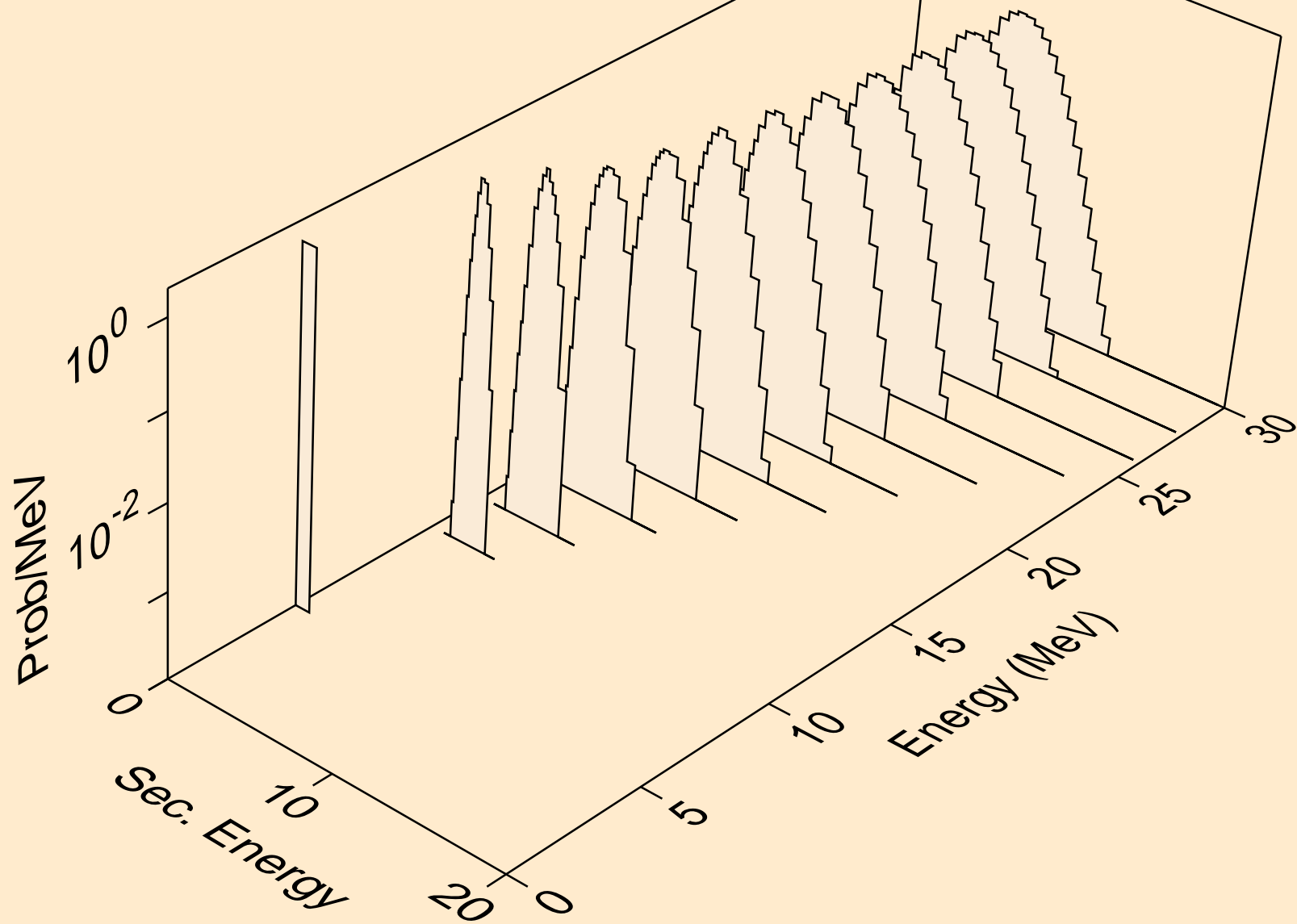
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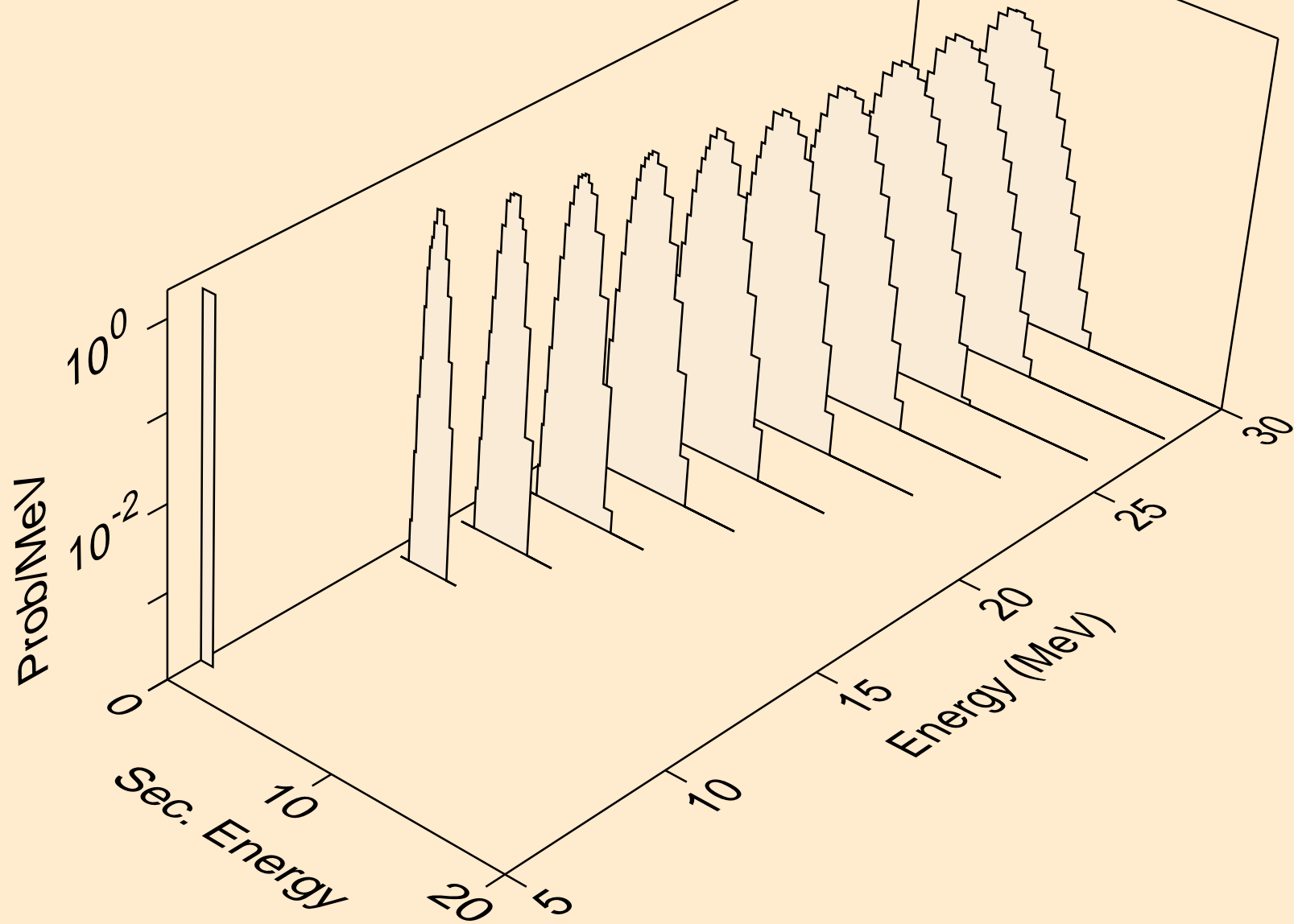
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protons from (n,p)



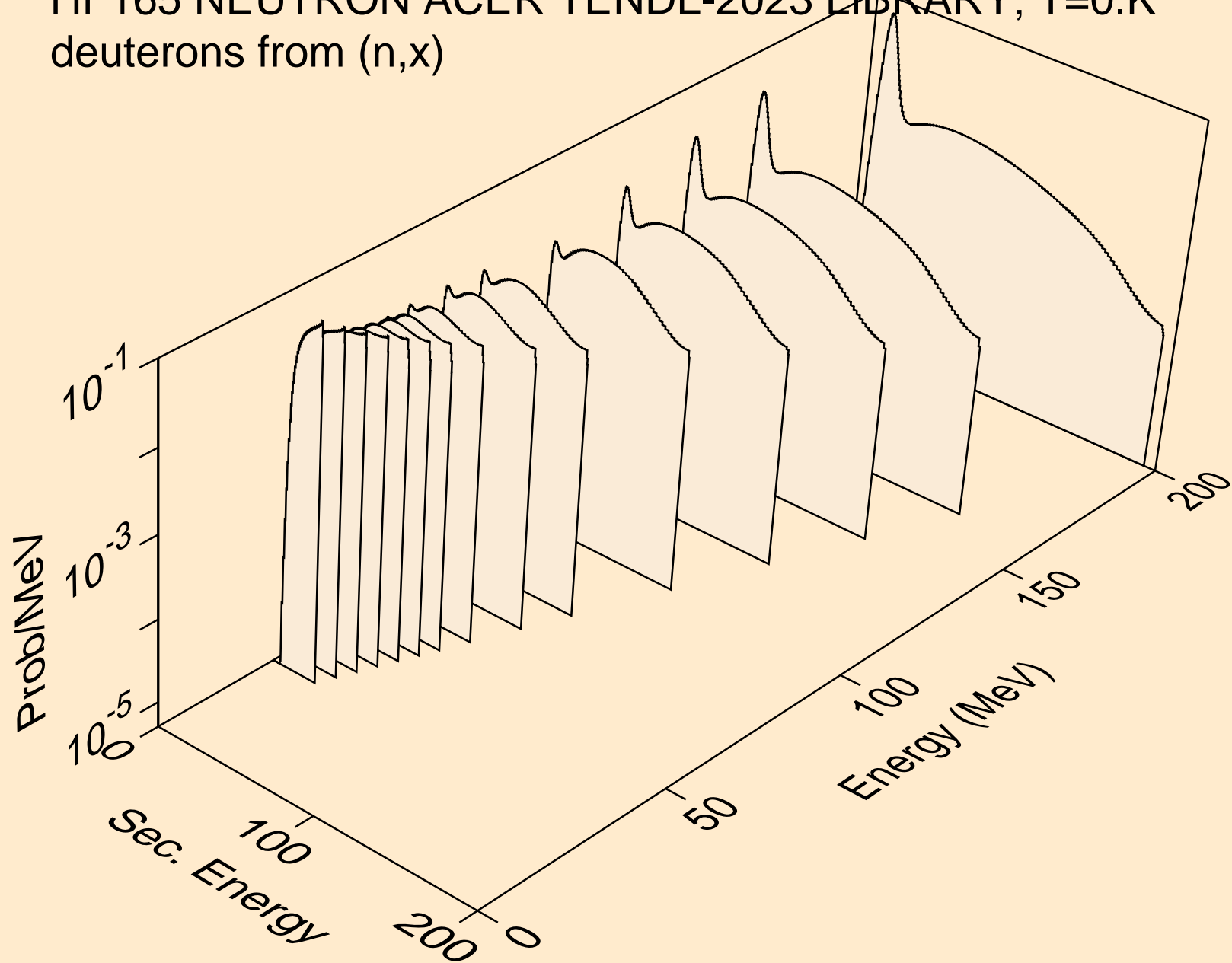
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protons from (n,pd)



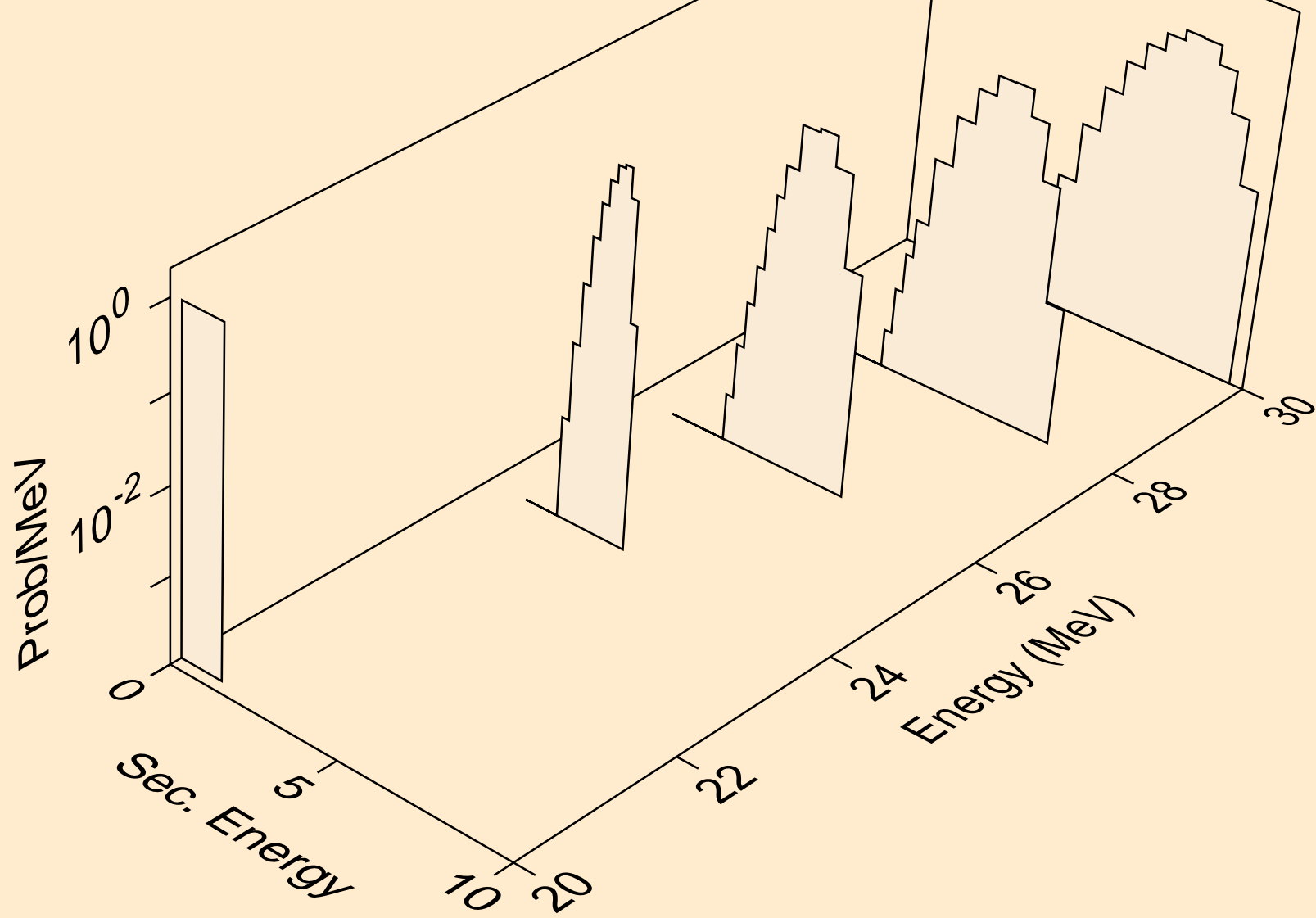
HF165 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
protons from (n,pt)



HF165 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
deuterons from (n,x)

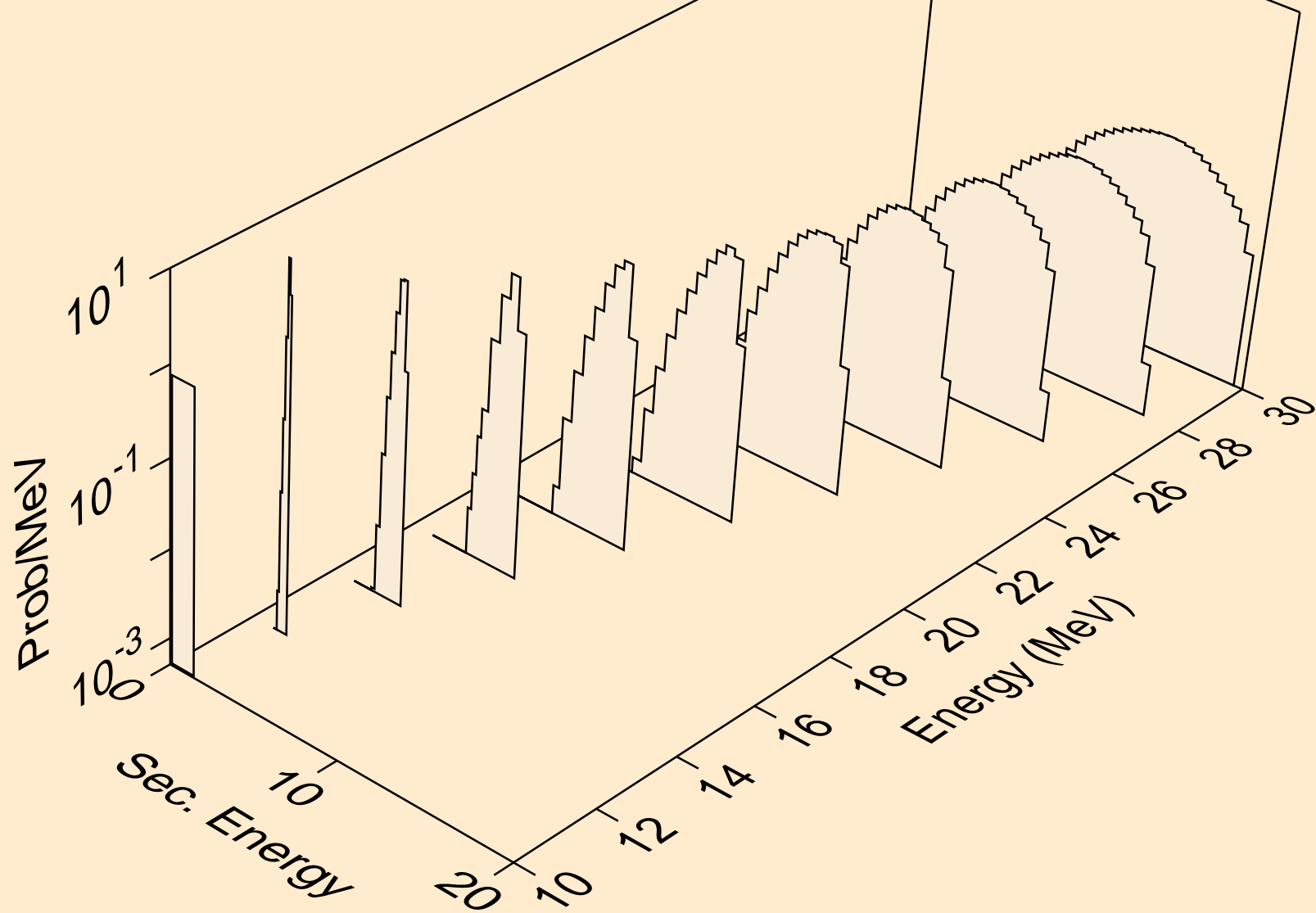


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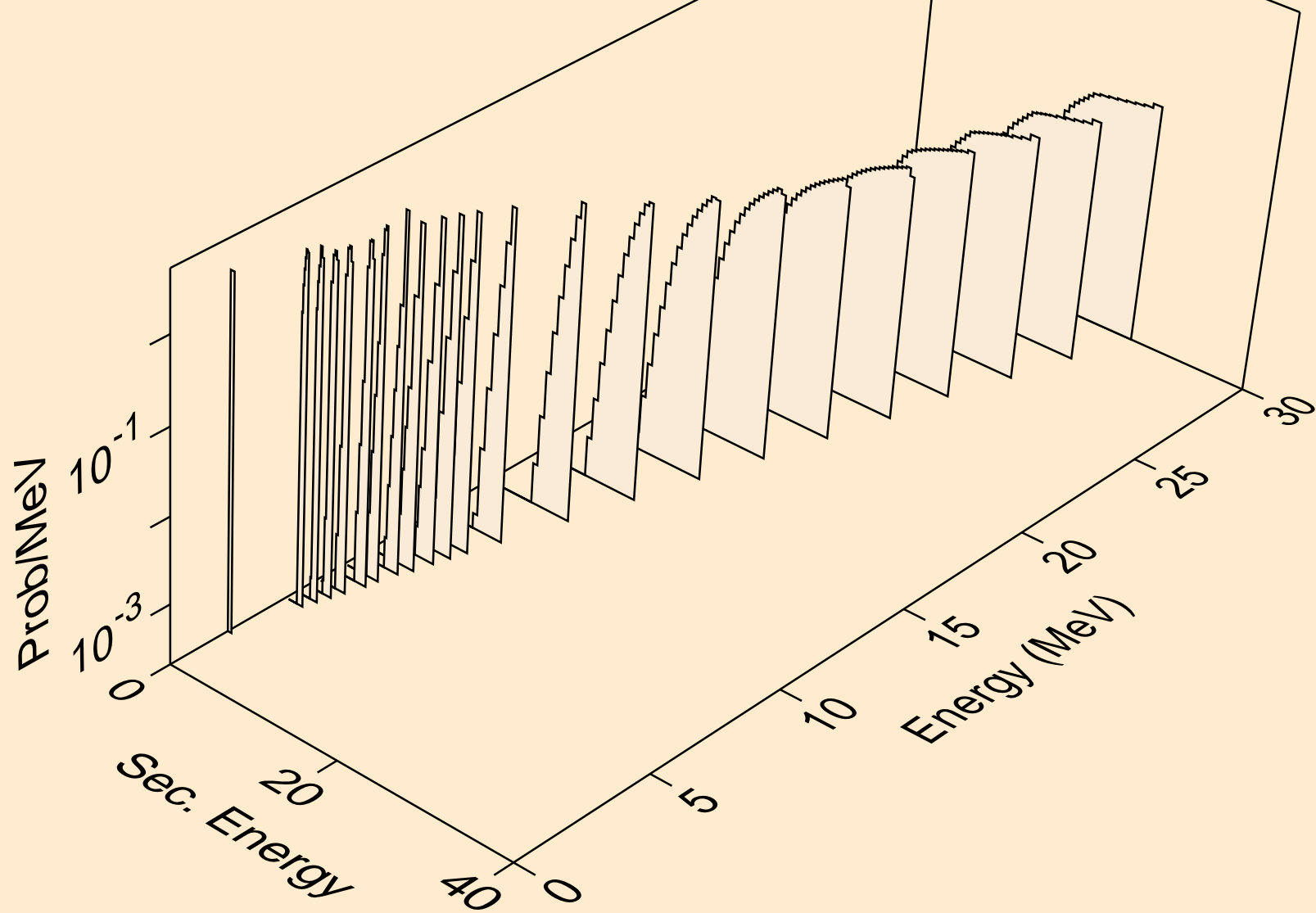




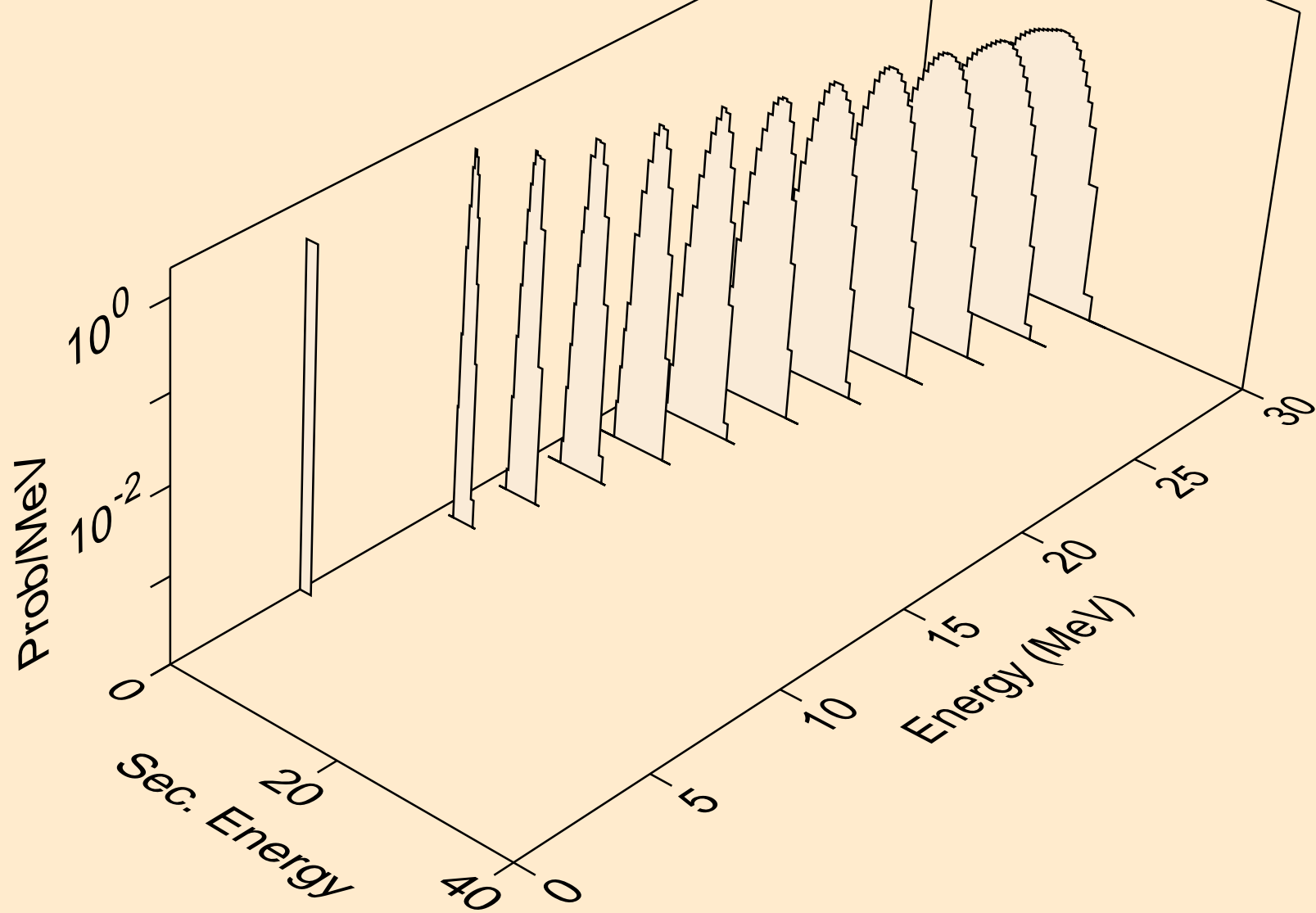
HF165 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
deuterons from (n,n\*)d



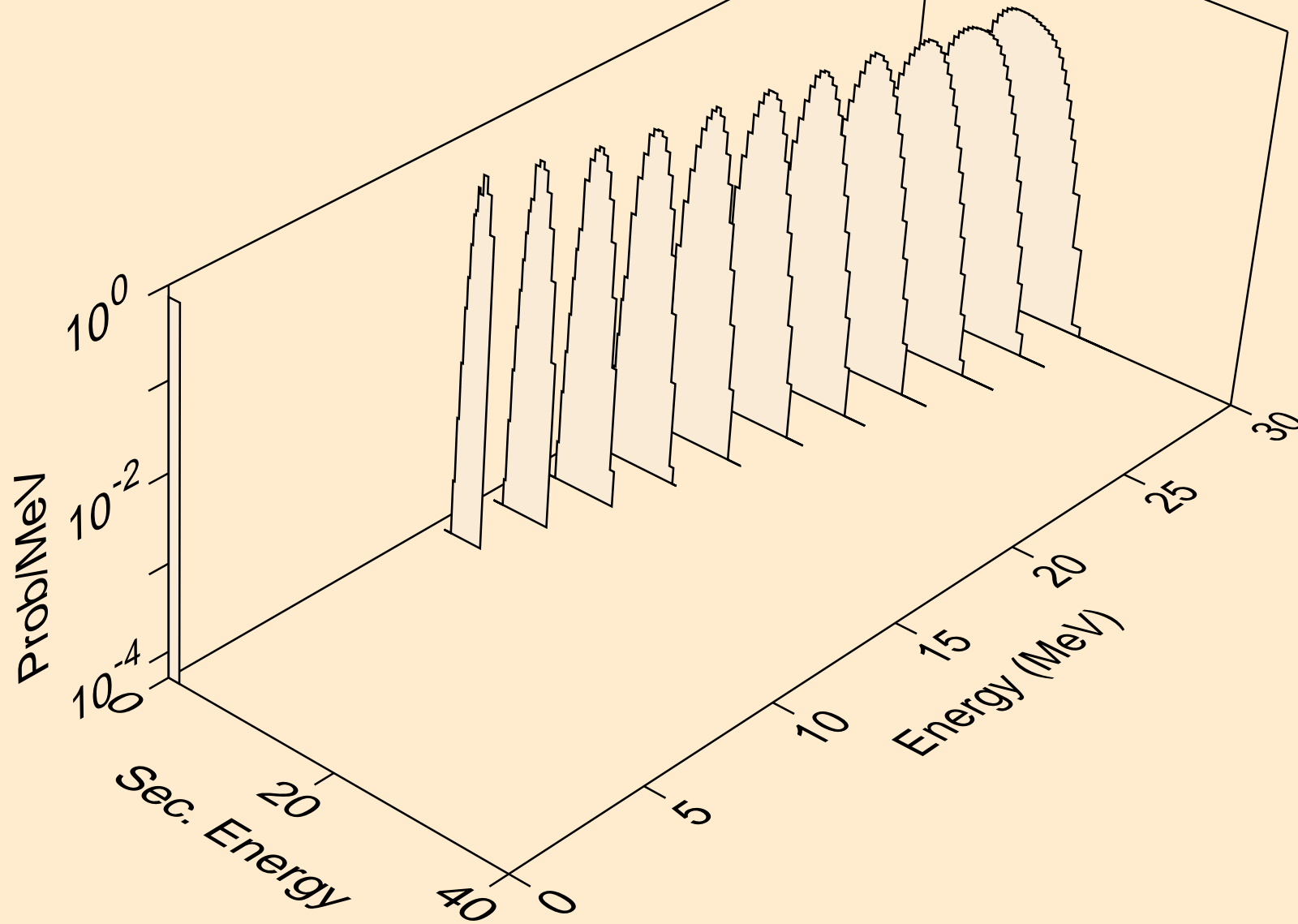
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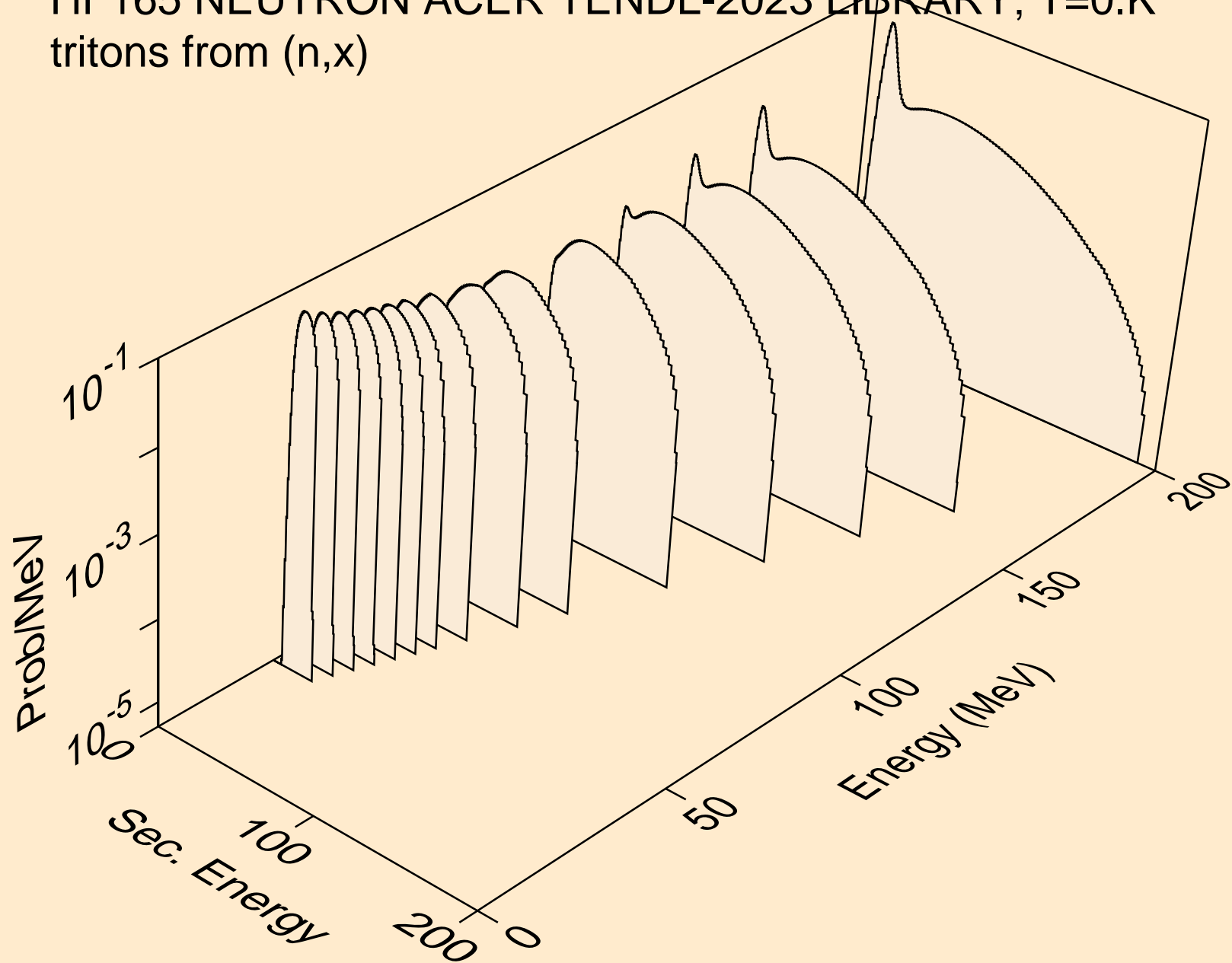
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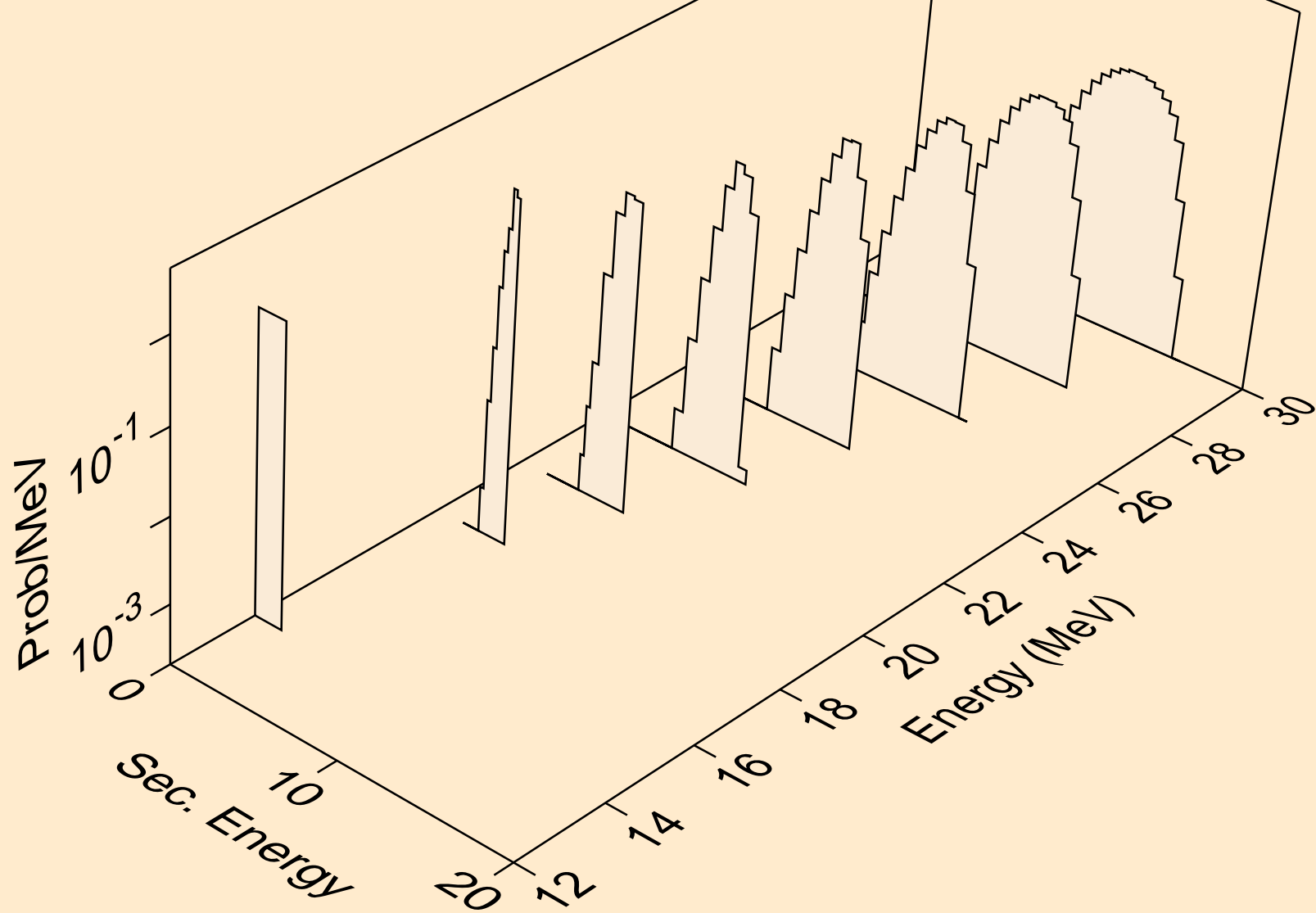
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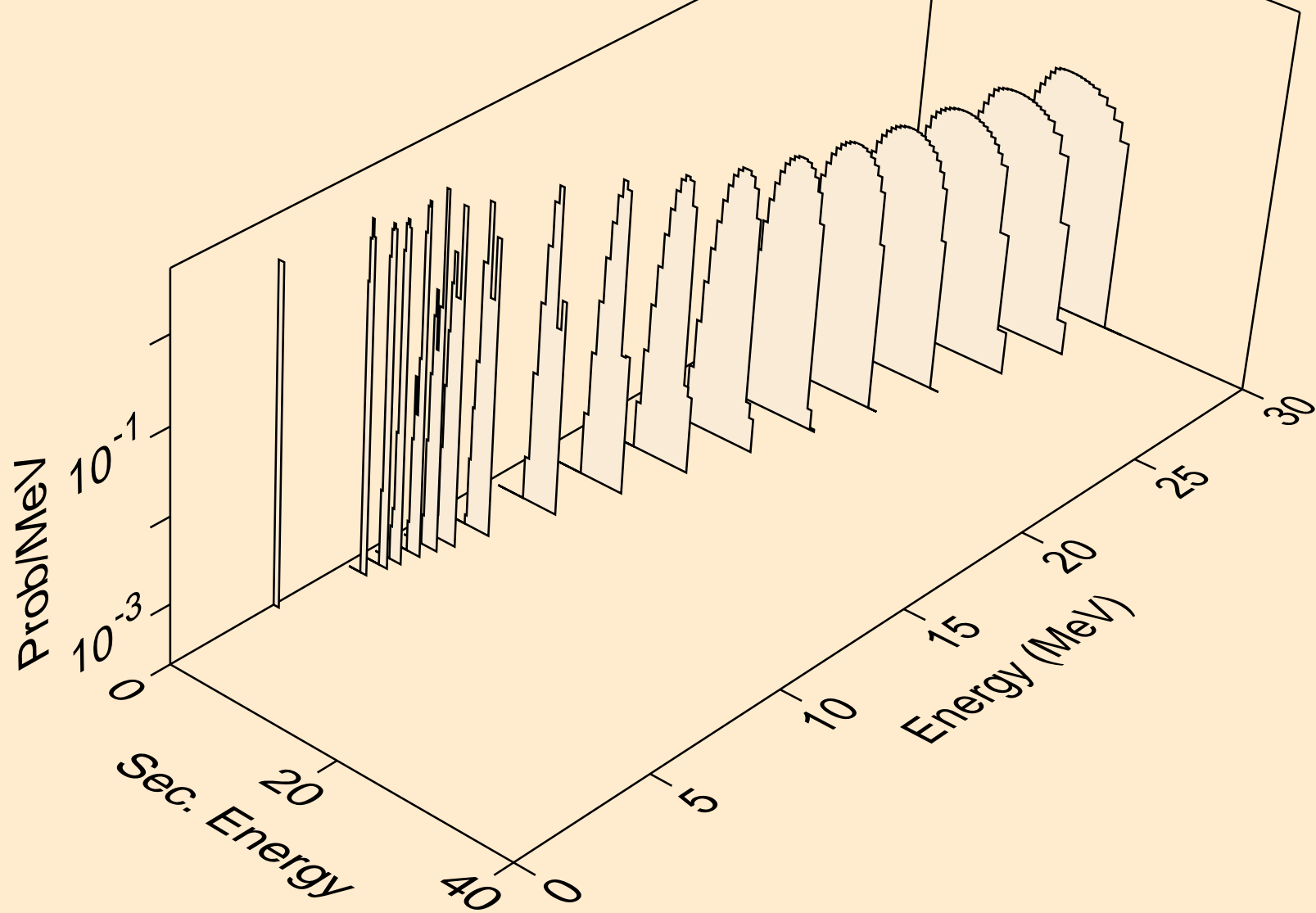
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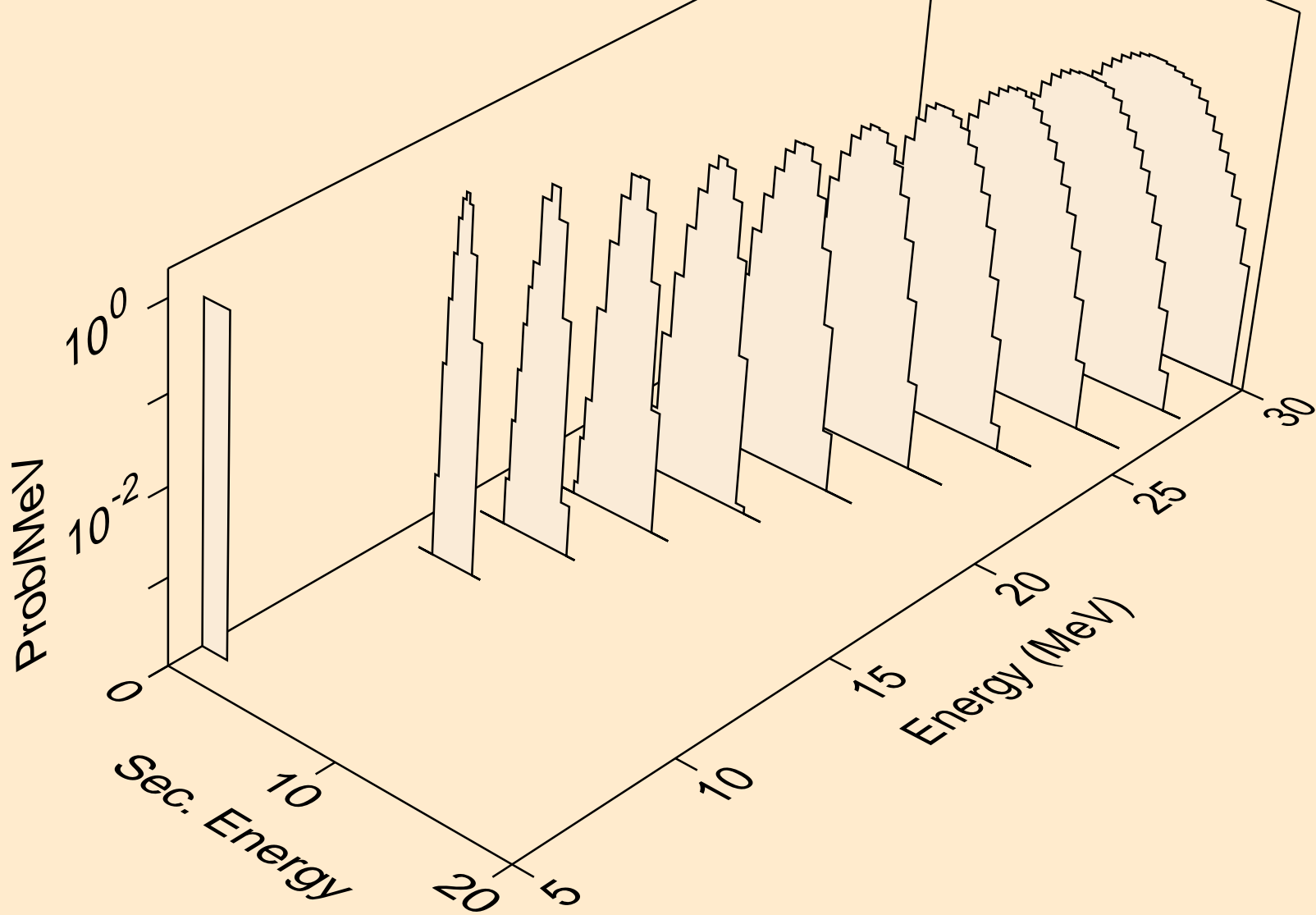
HF165 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
tritons from (n,n\*)t



HF165 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
tritons from (n,t)

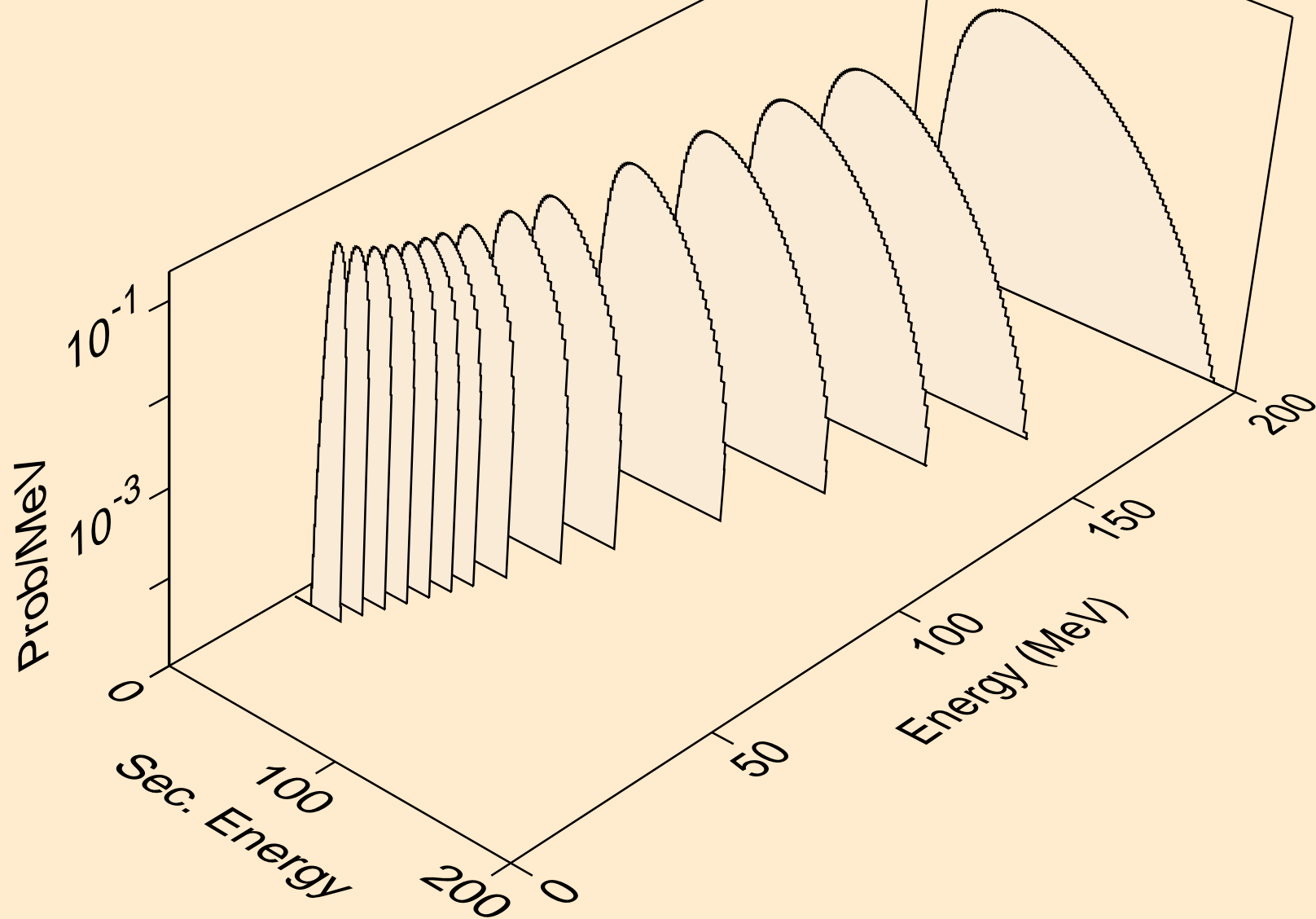


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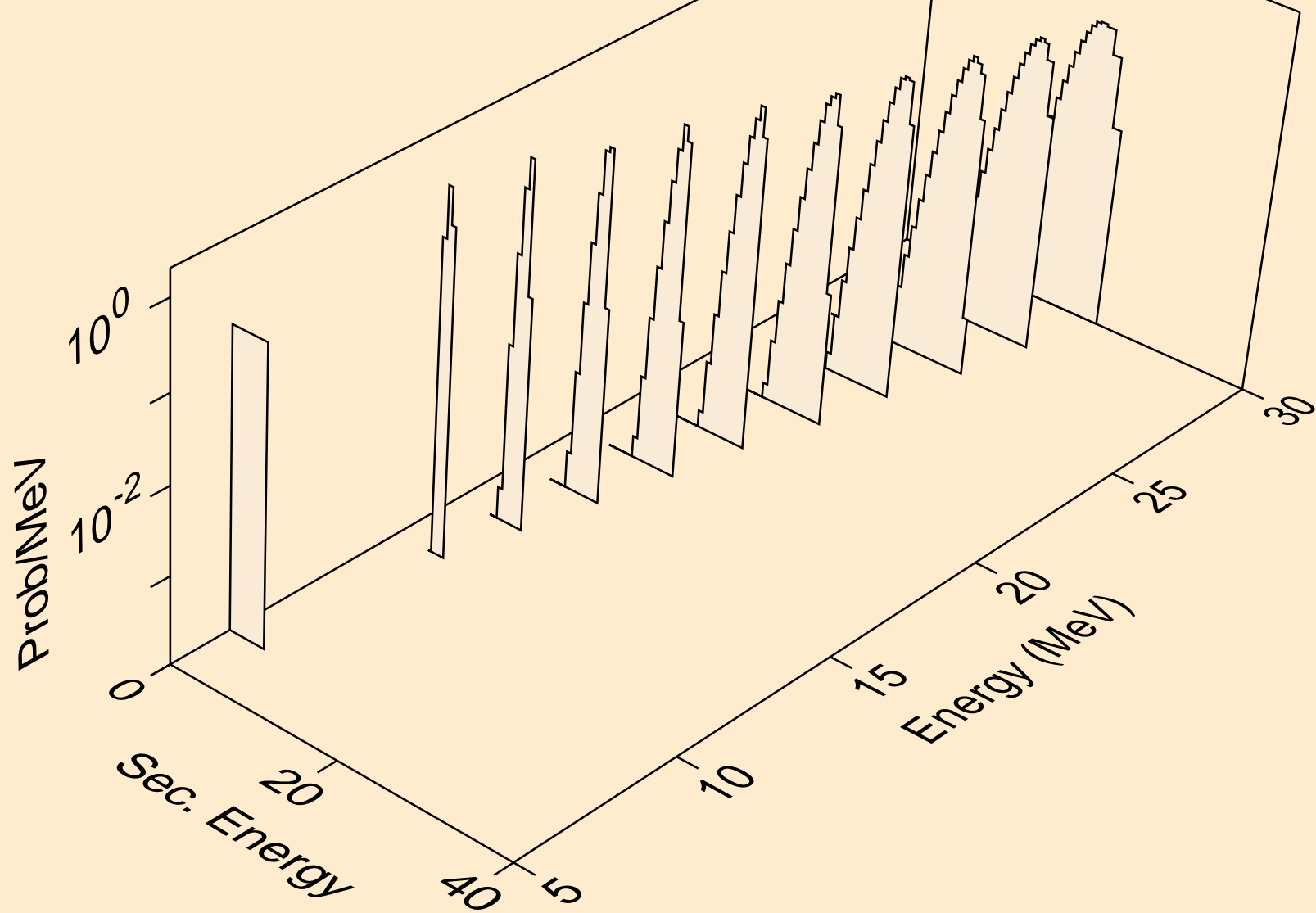




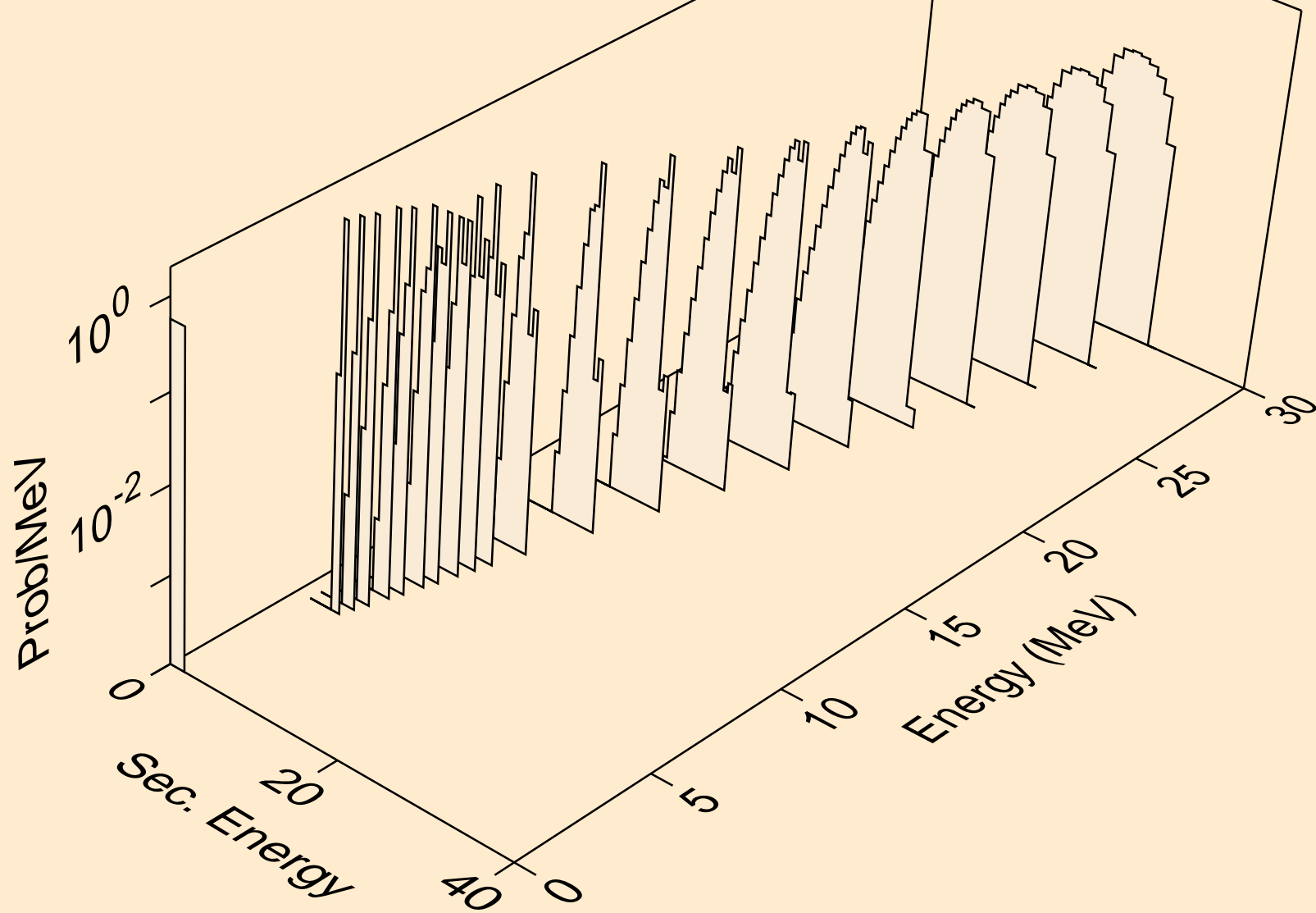
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he3s from (n,x)



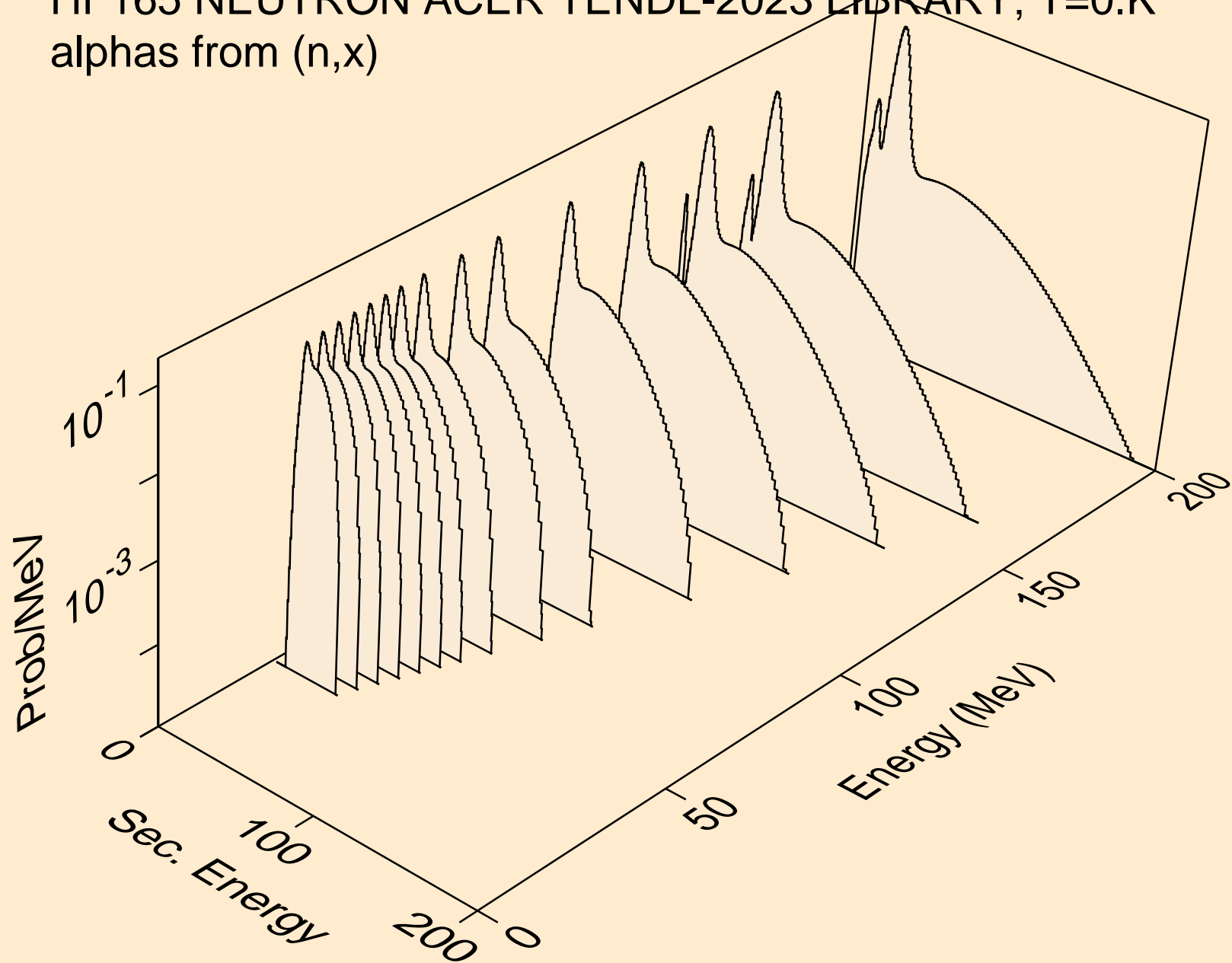
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he3s from (n,n\*)he3



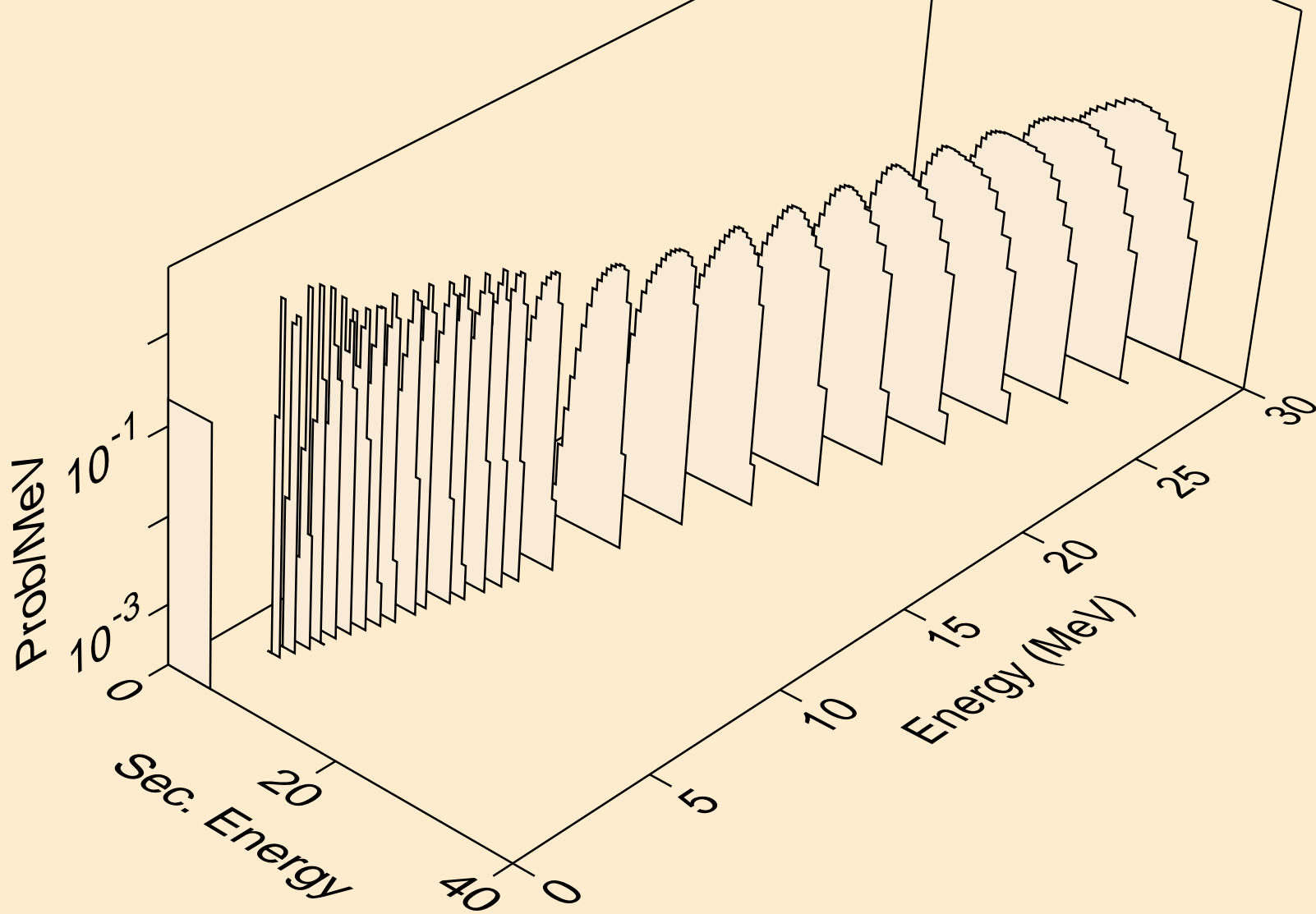
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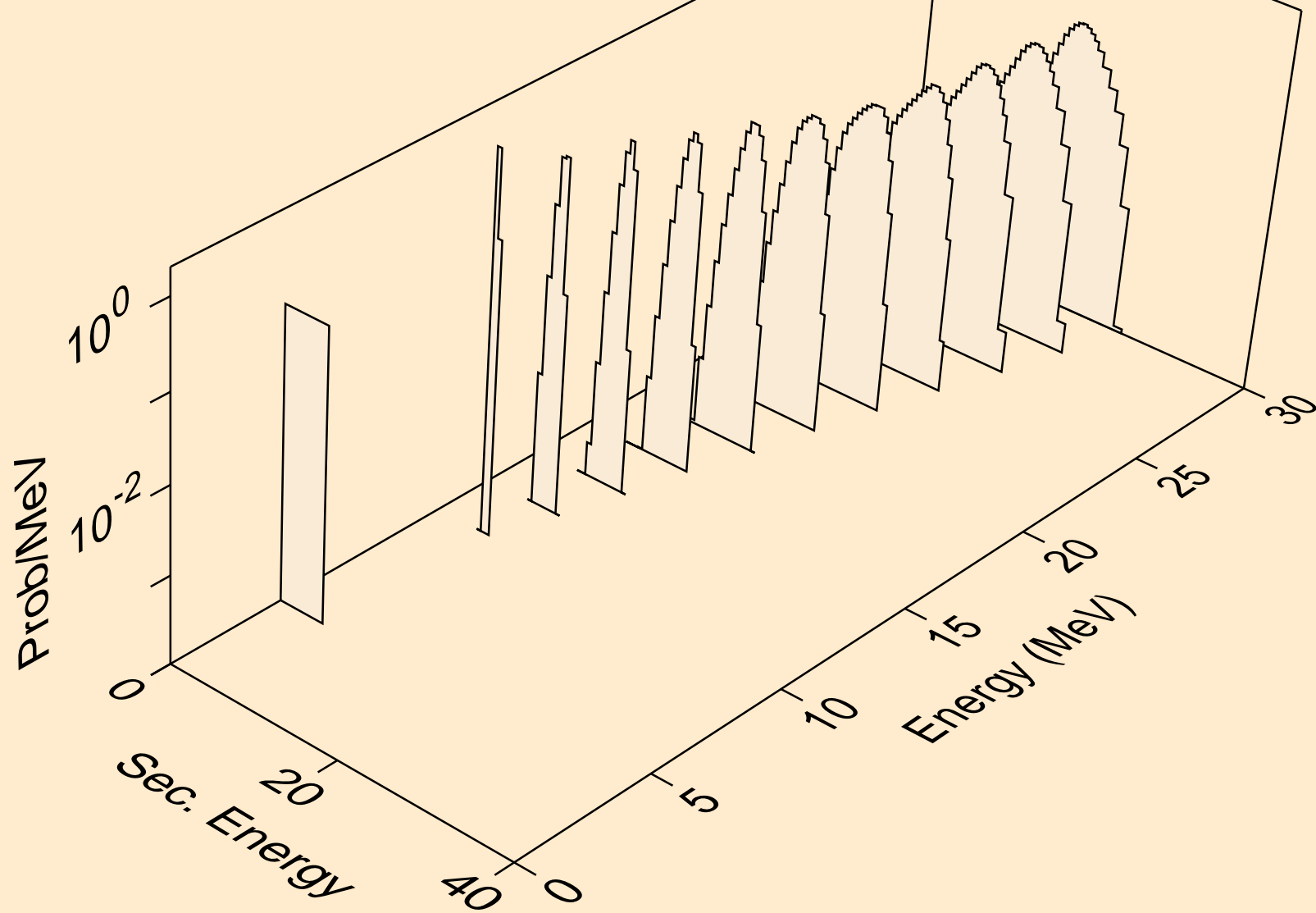
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alphas from (n,x)



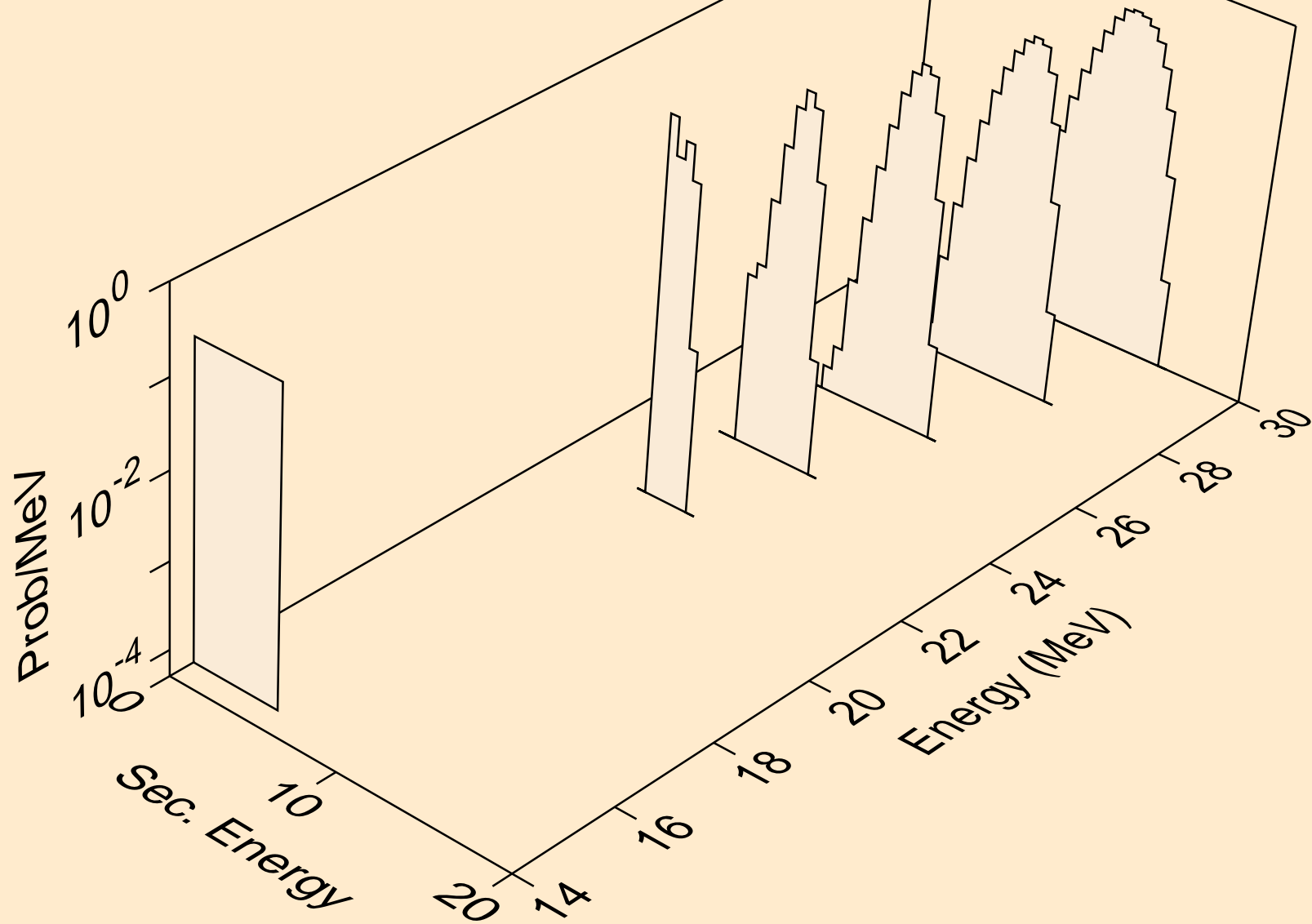
HF165 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,n\*)a



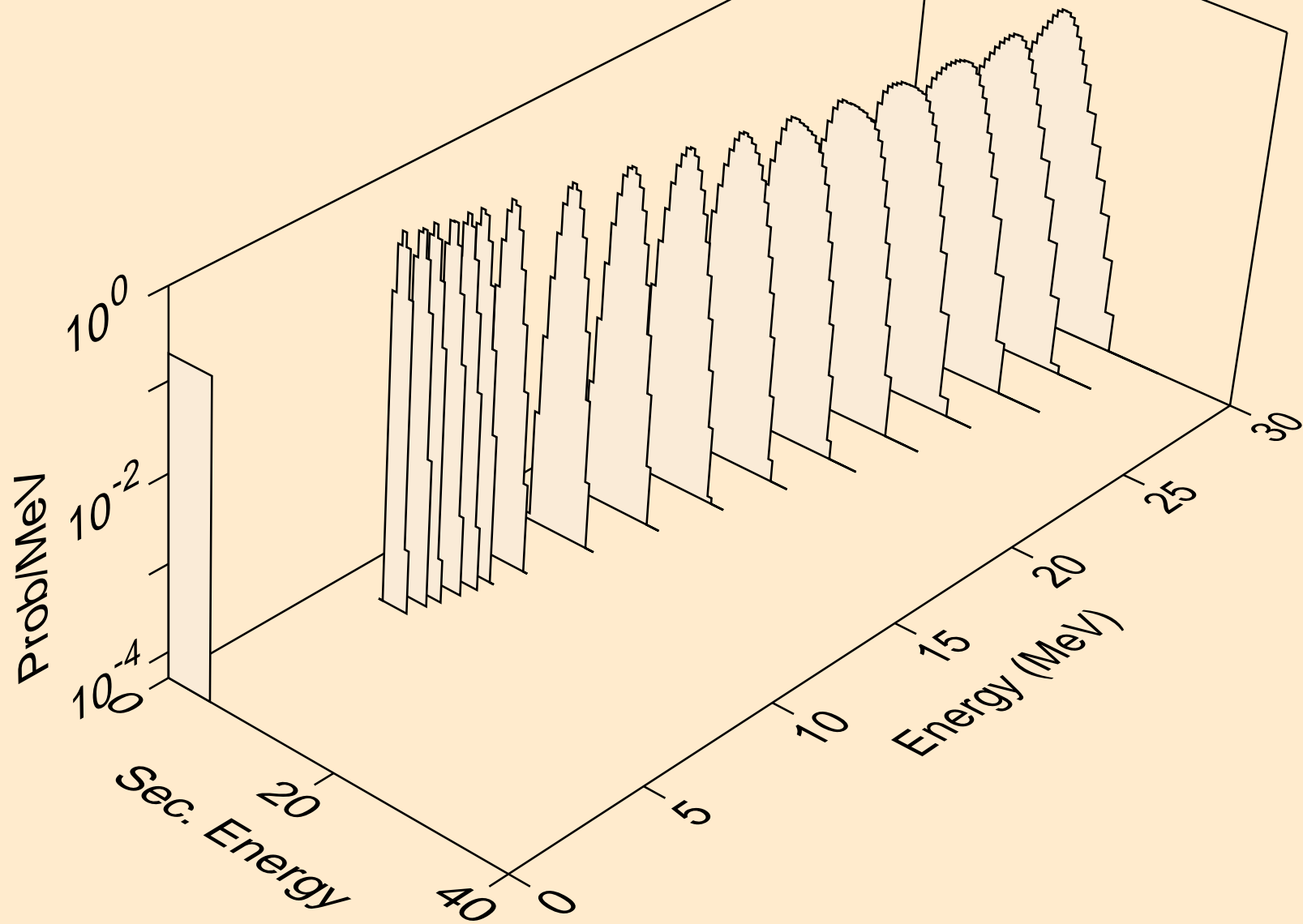
HF165 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,2n)a



HF165 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,3n)a

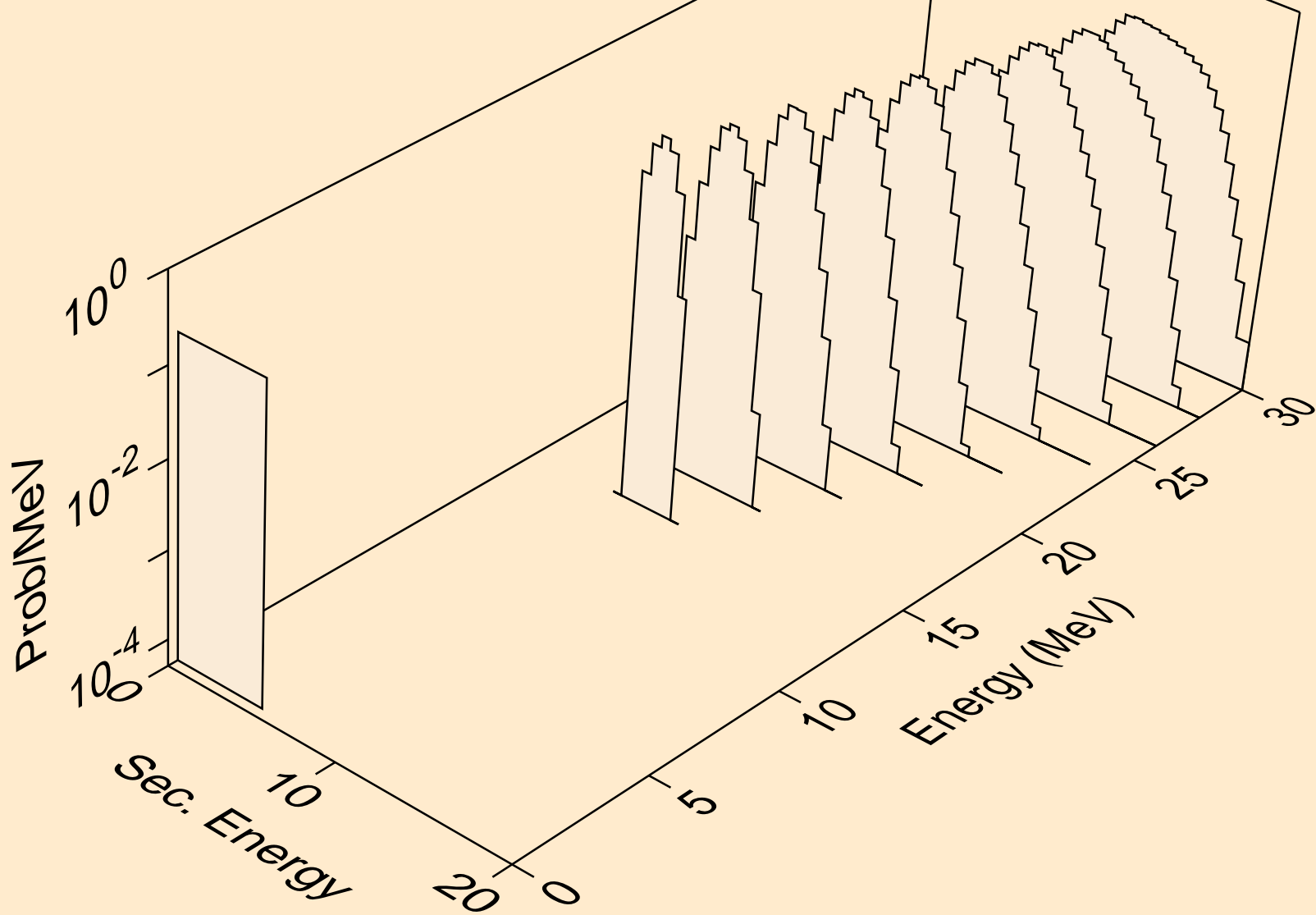


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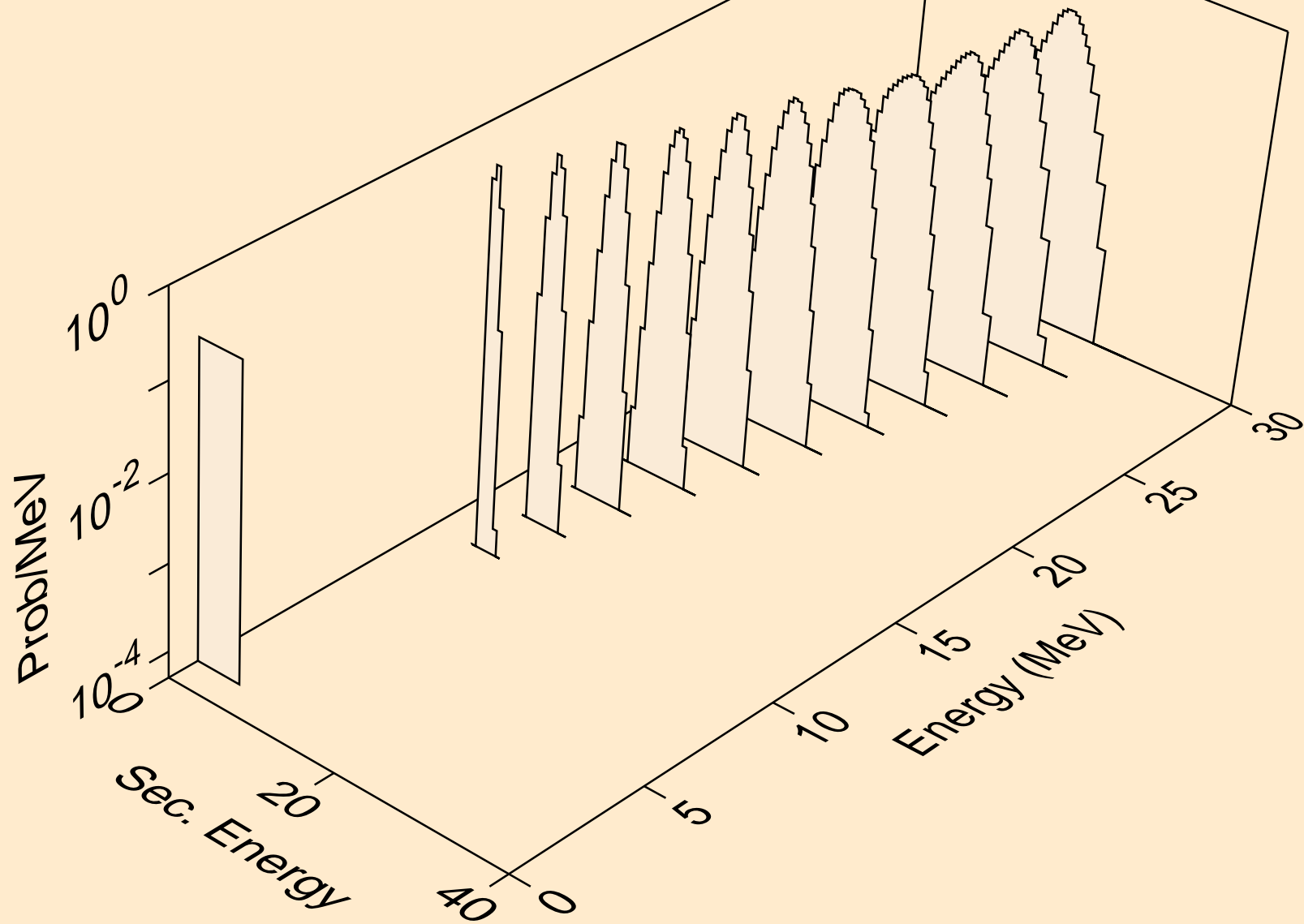




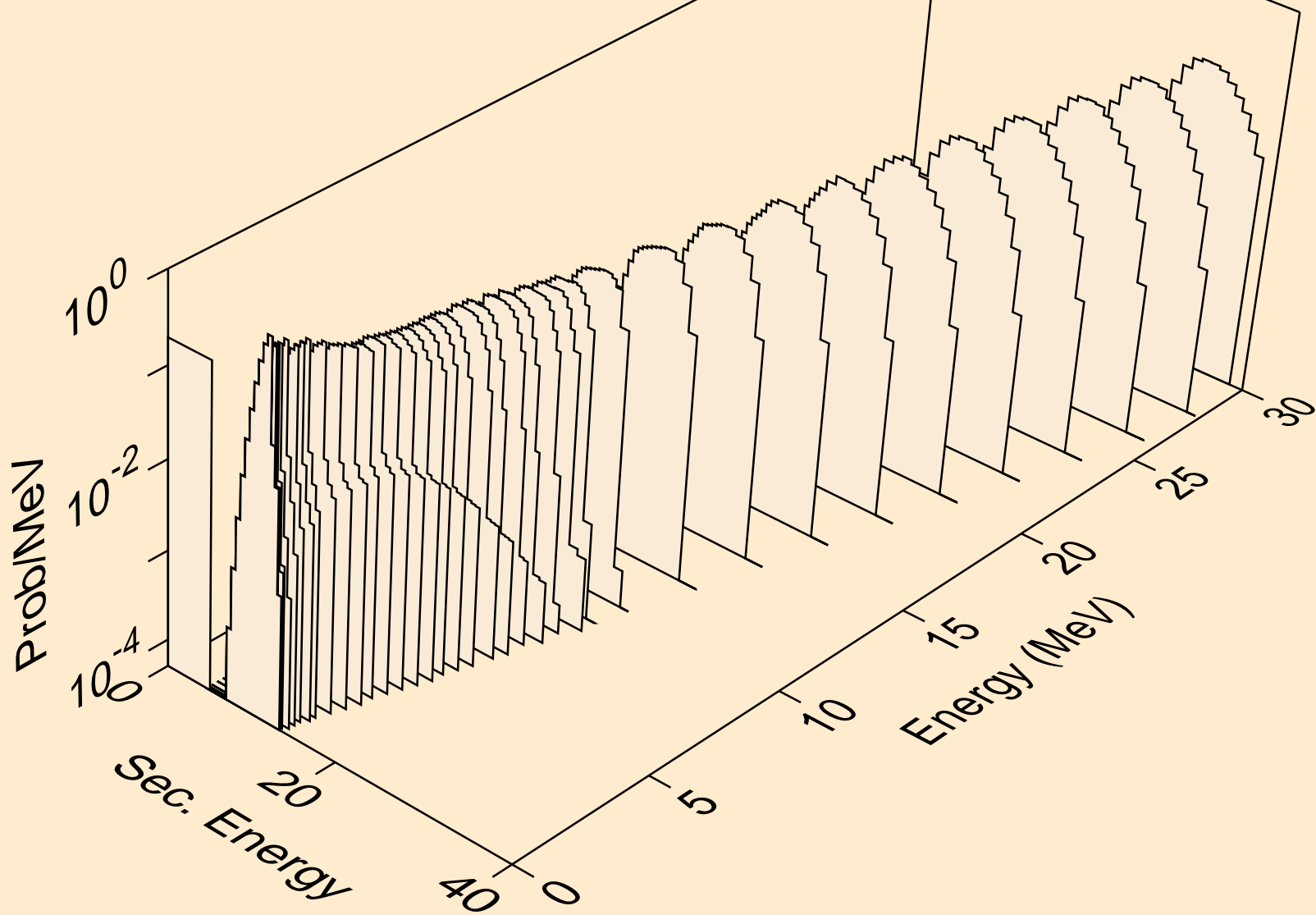
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alphas from (n,2n)2a



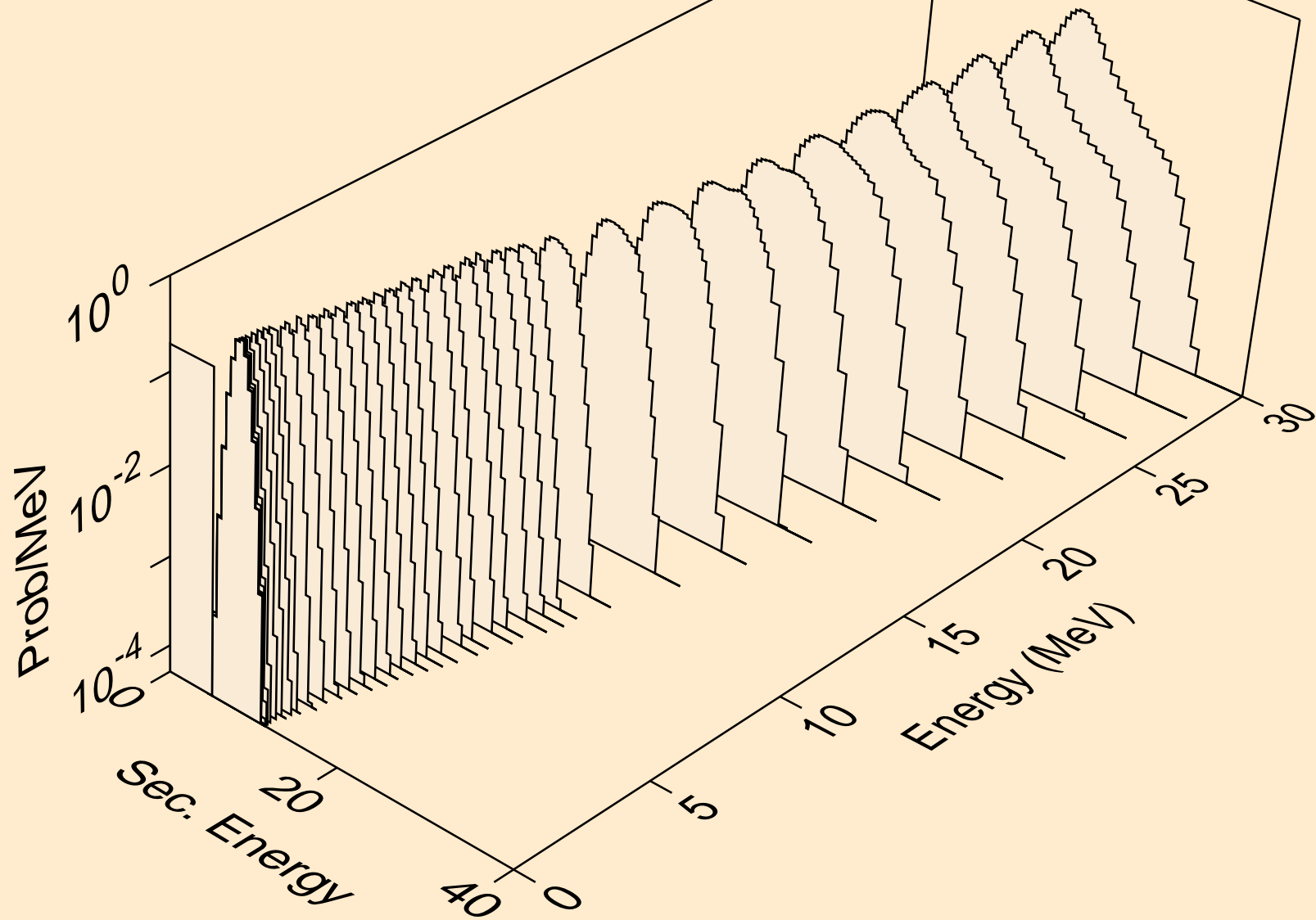
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alphas from (n,npa)



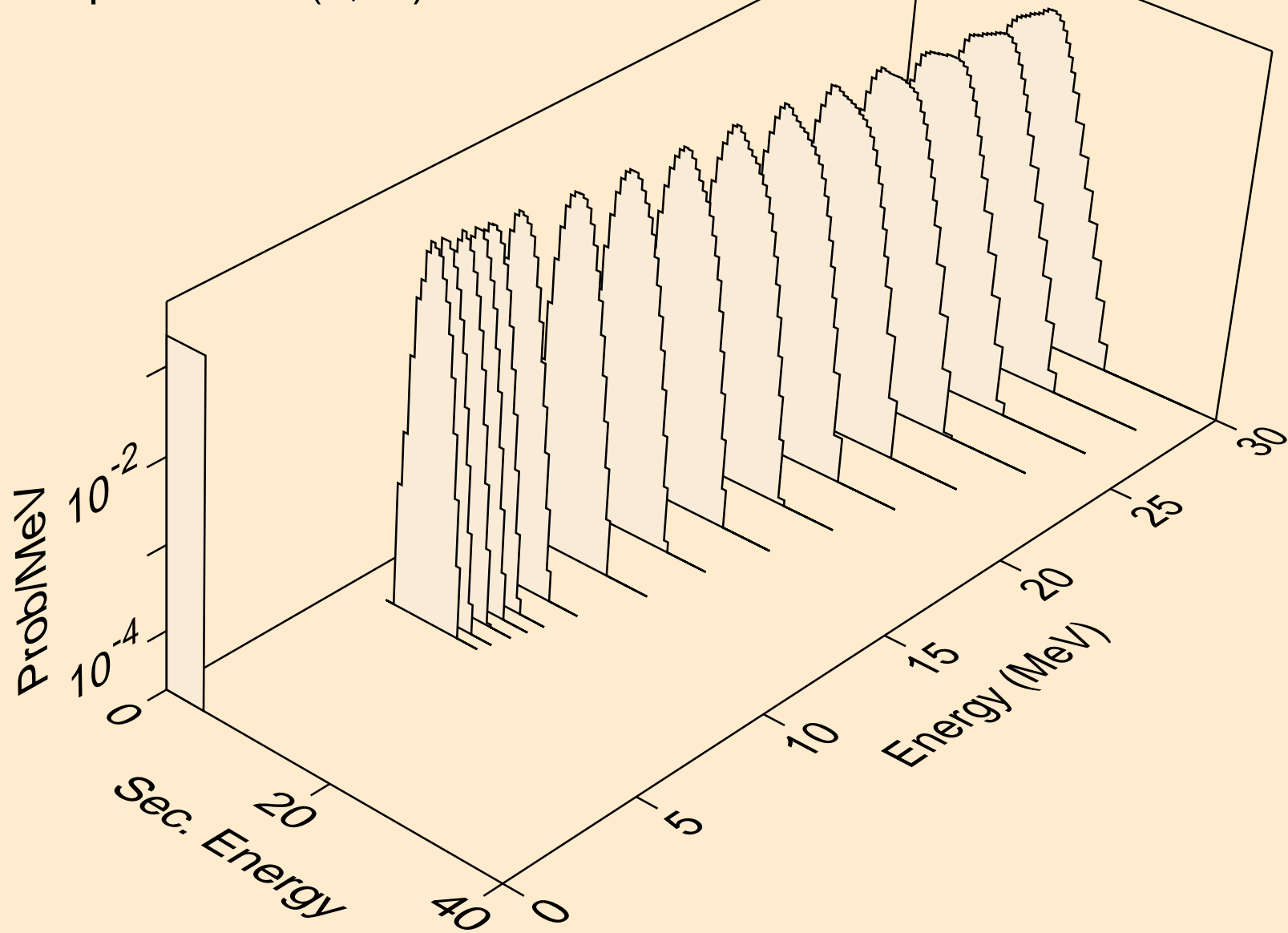
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alphas from (n,a)



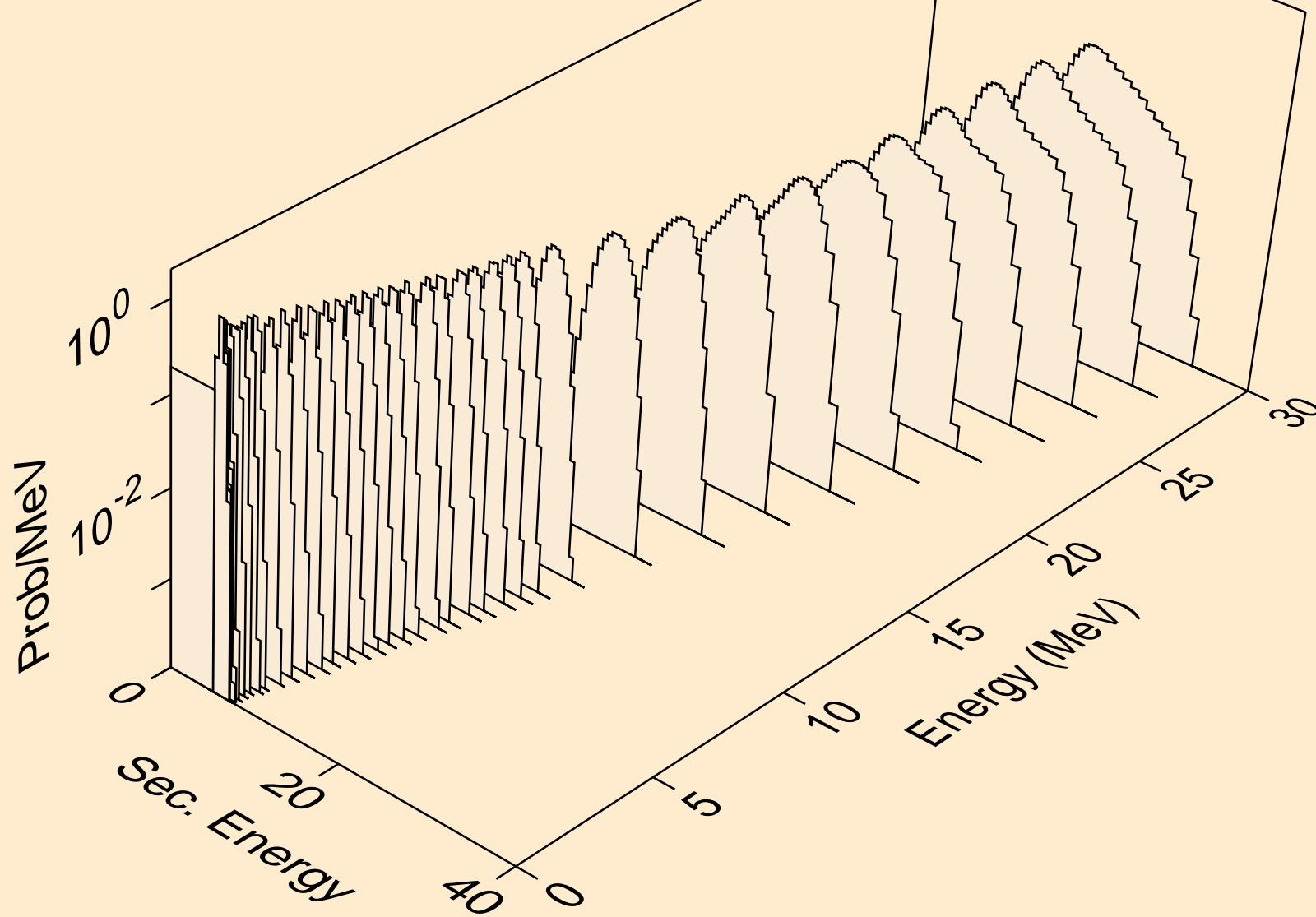
HF165 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,2a)



HF165 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,3a)



HF165 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,pa)



HF165 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,da)

