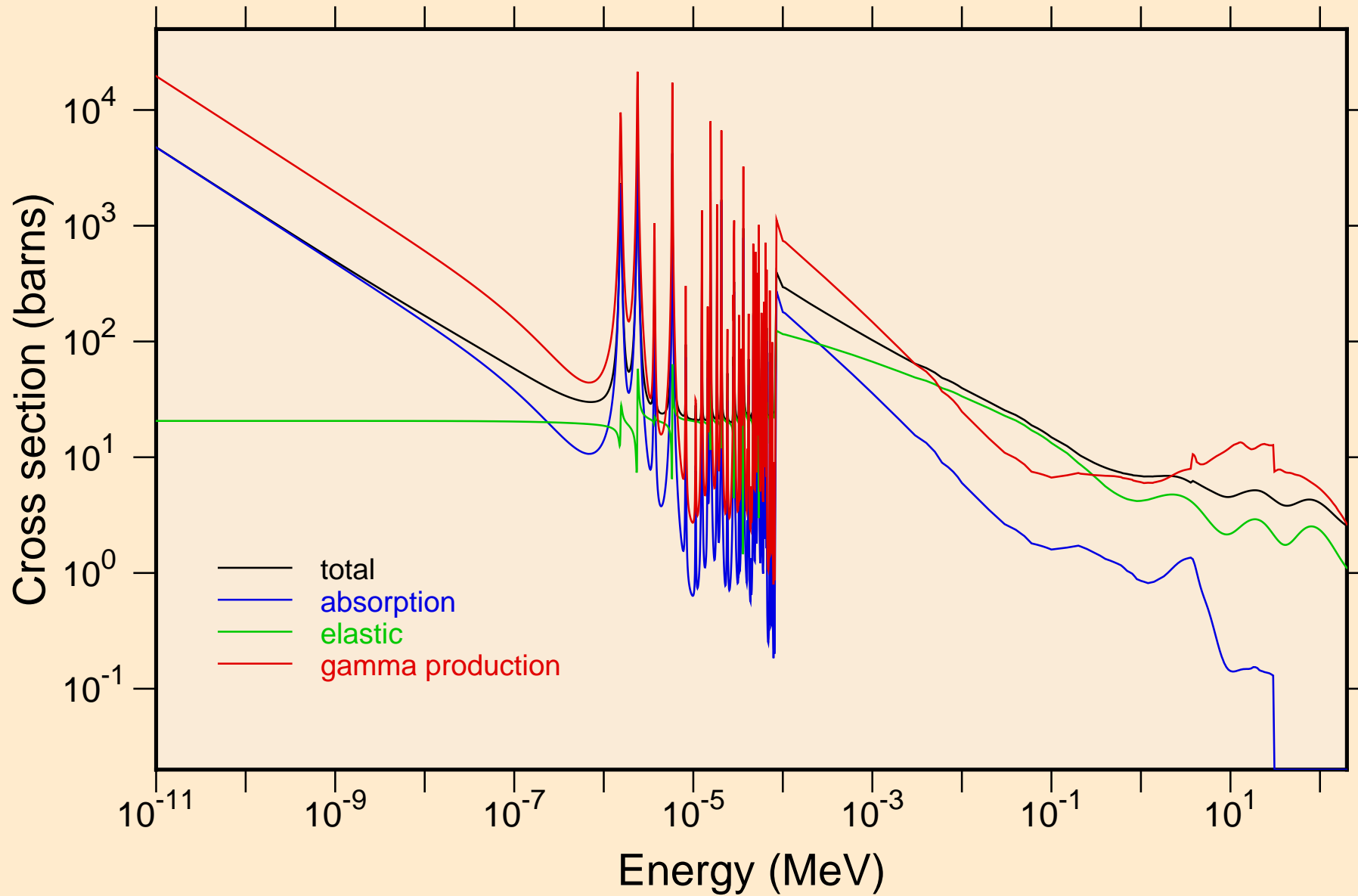
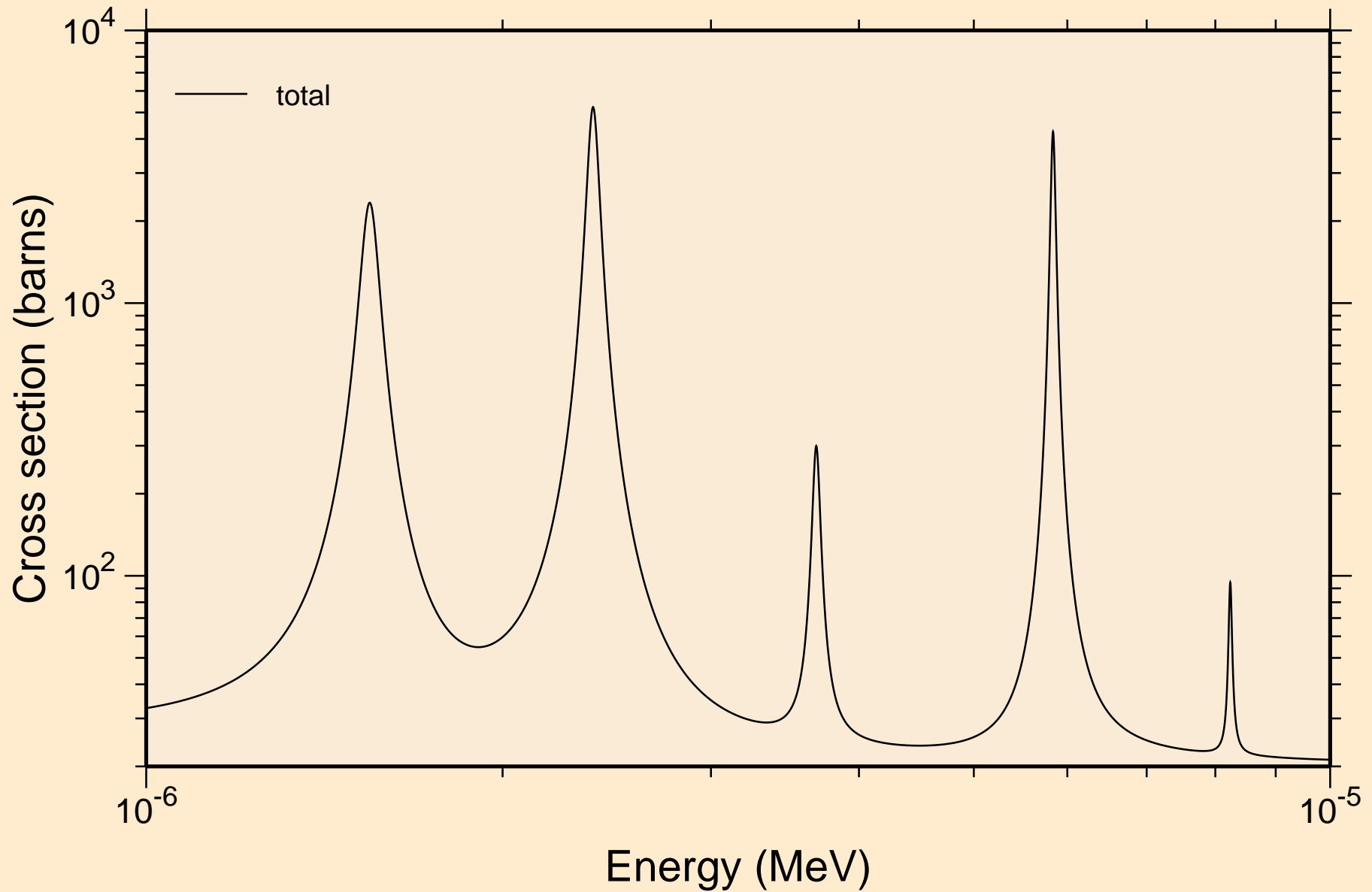


# HF164 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

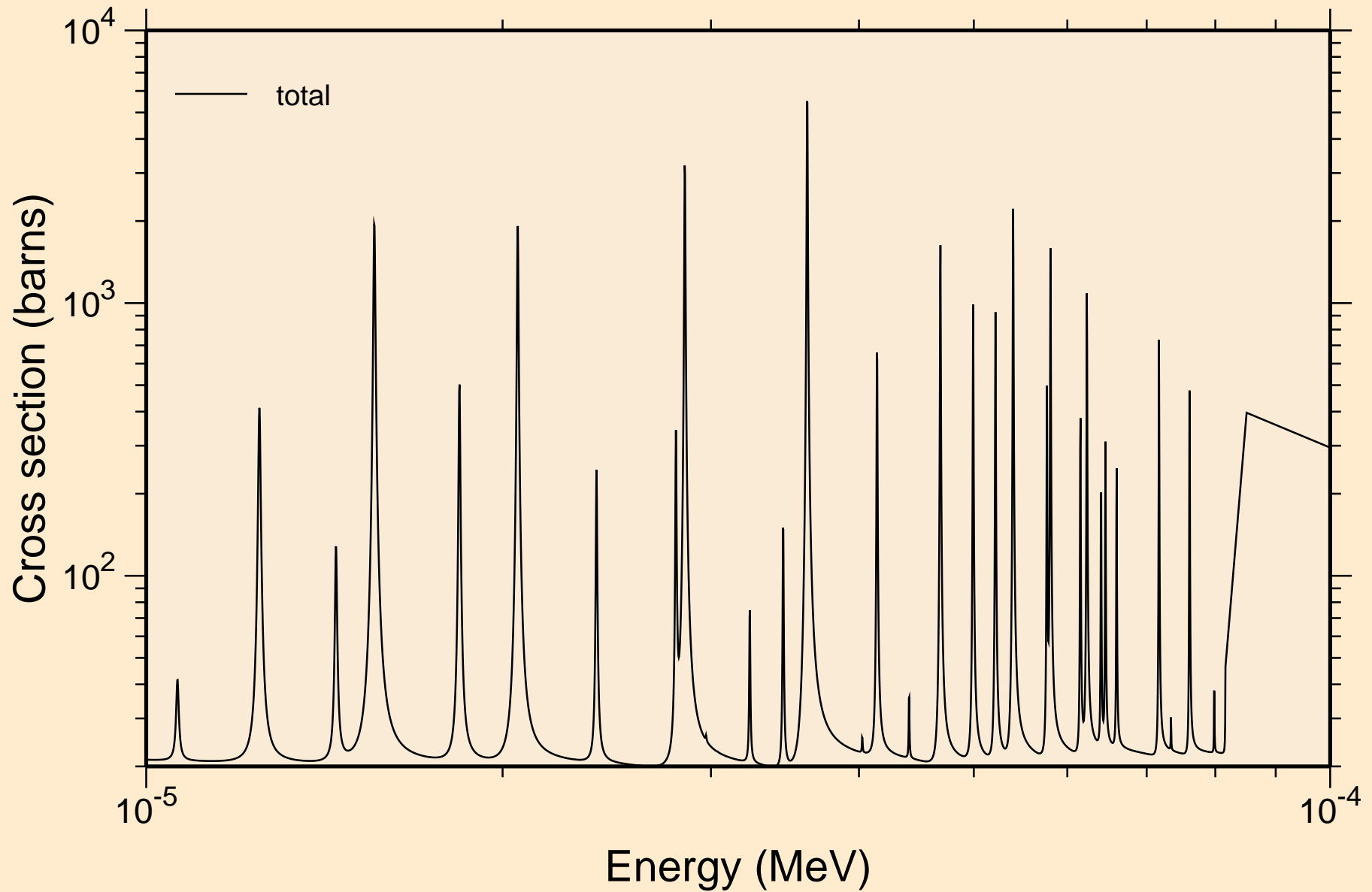
## Principal cross sections



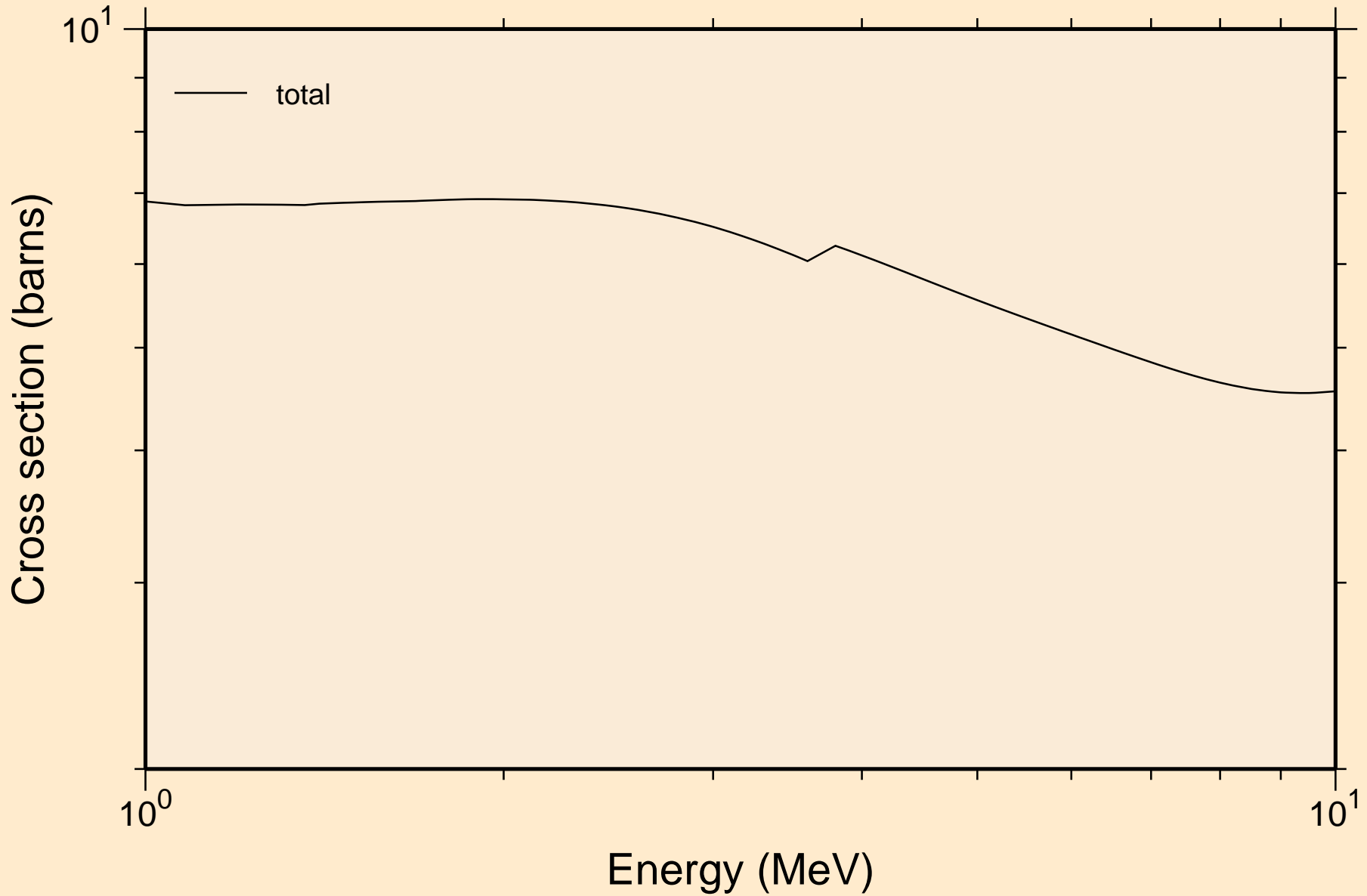
HF164 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
resonance total cross section



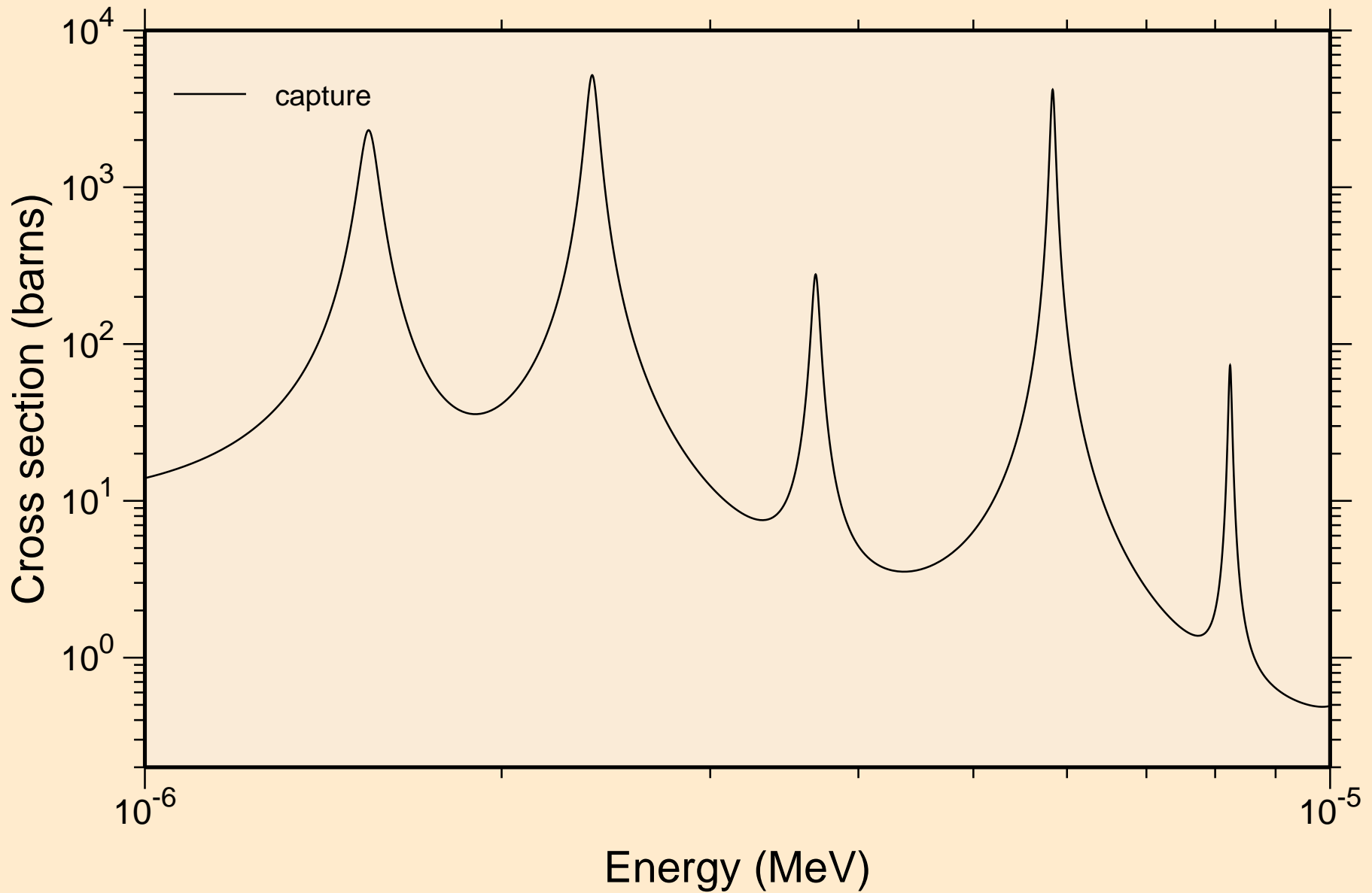
HF164 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
resonance total cross section



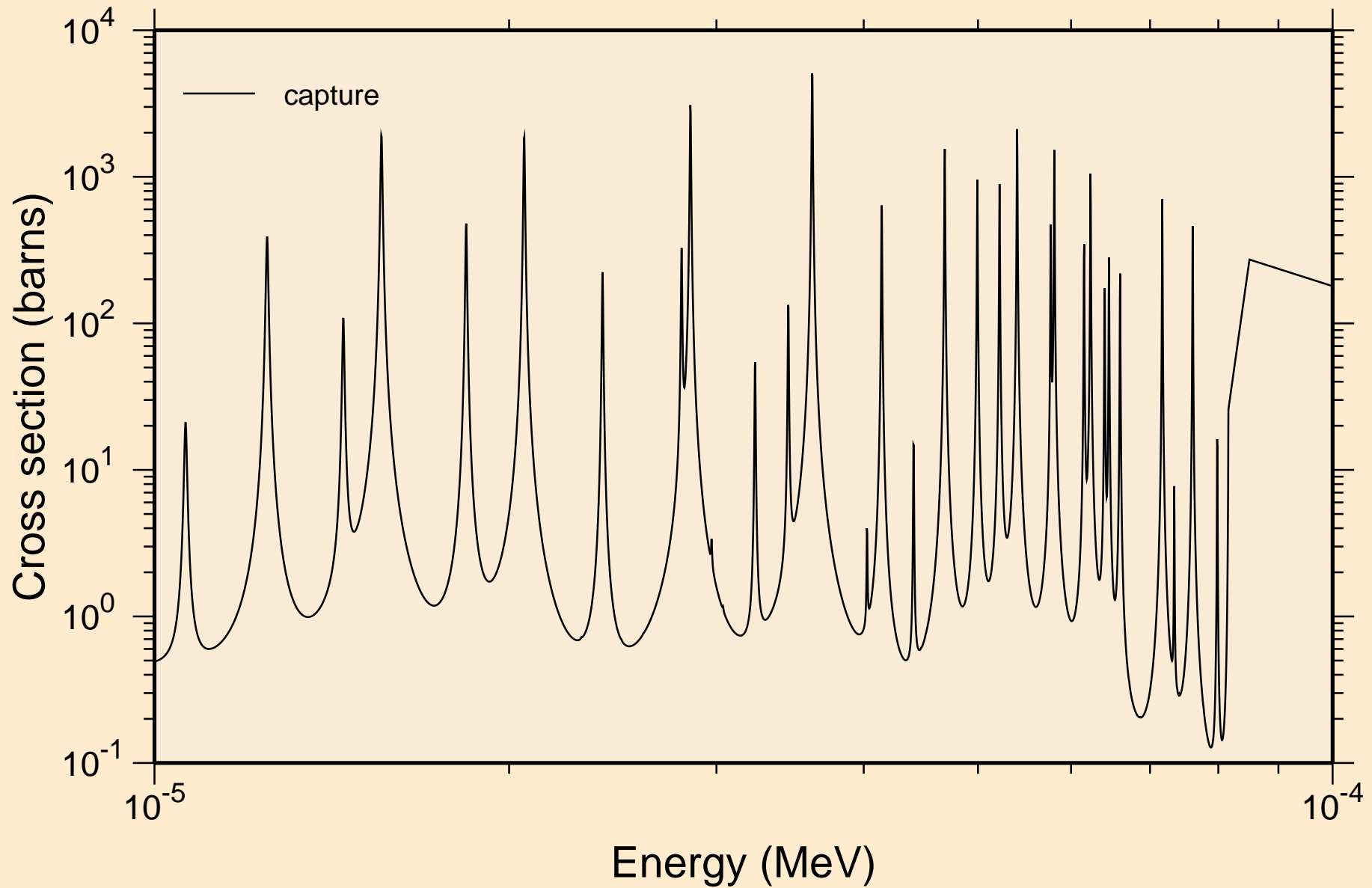
HF164 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
resonance total cross section



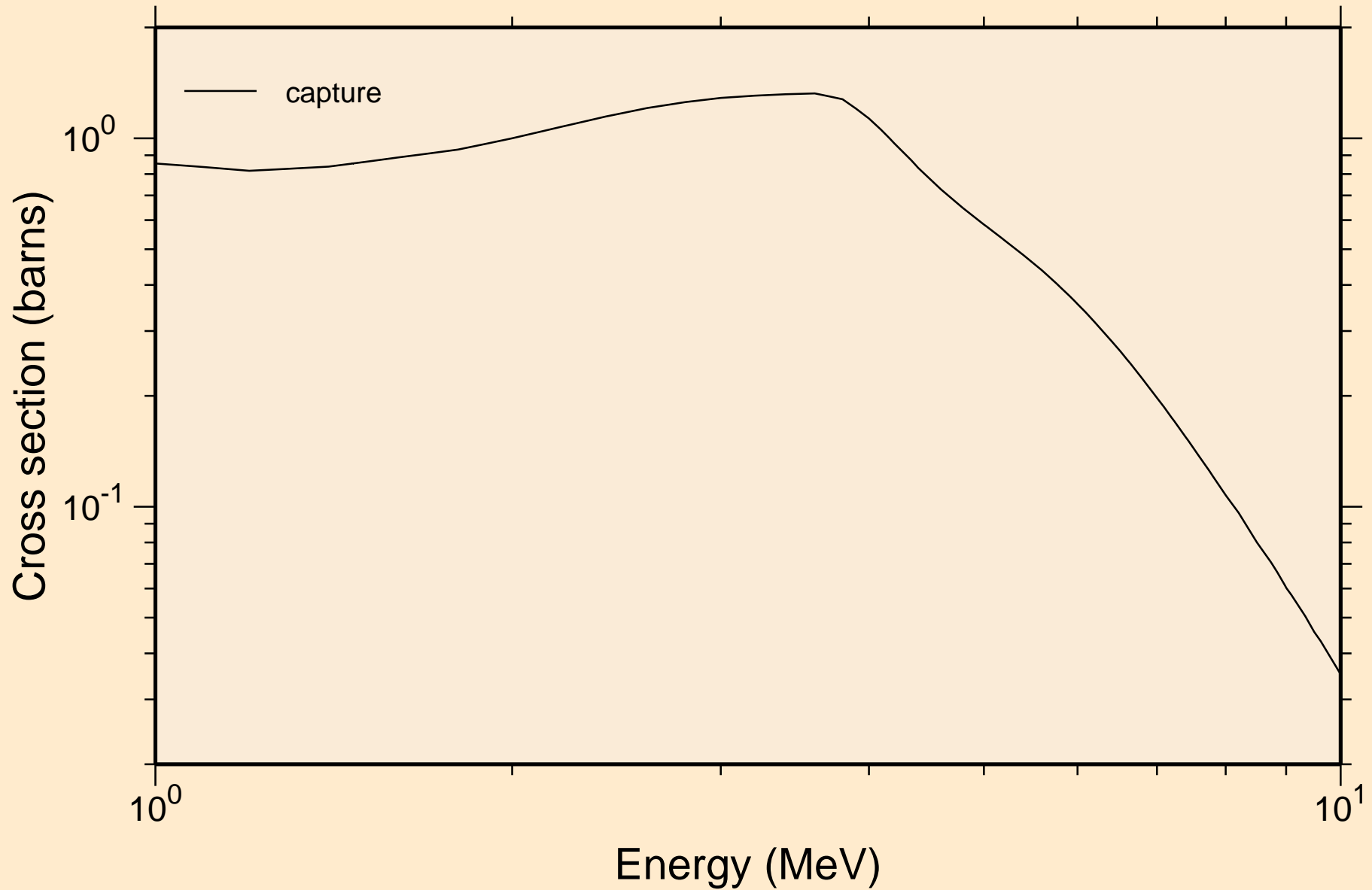
HF164 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
resonance absorption cross sections



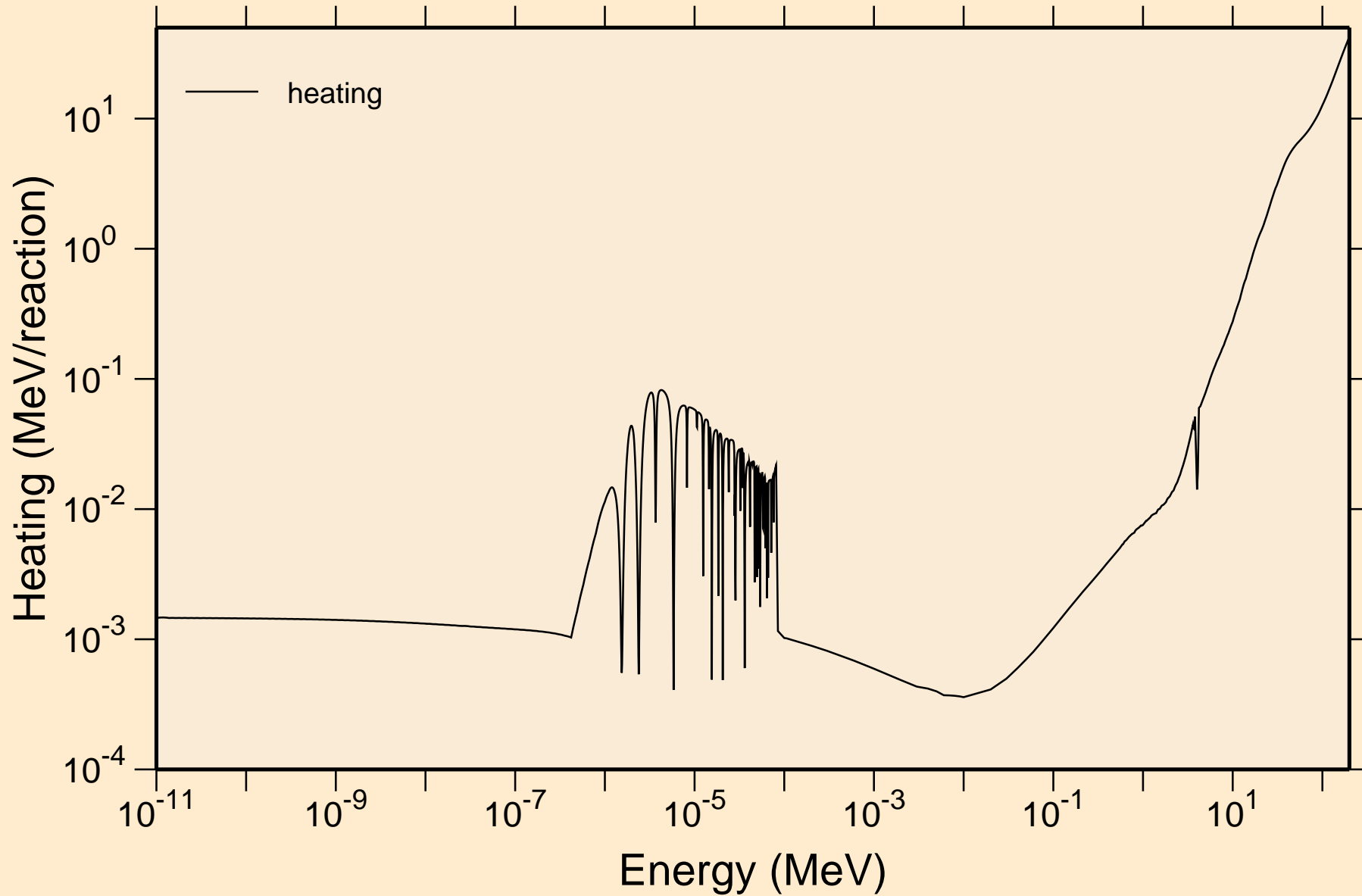
HF164 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
resonance absorption cross sections



HF164 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
resonance absorption cross sections



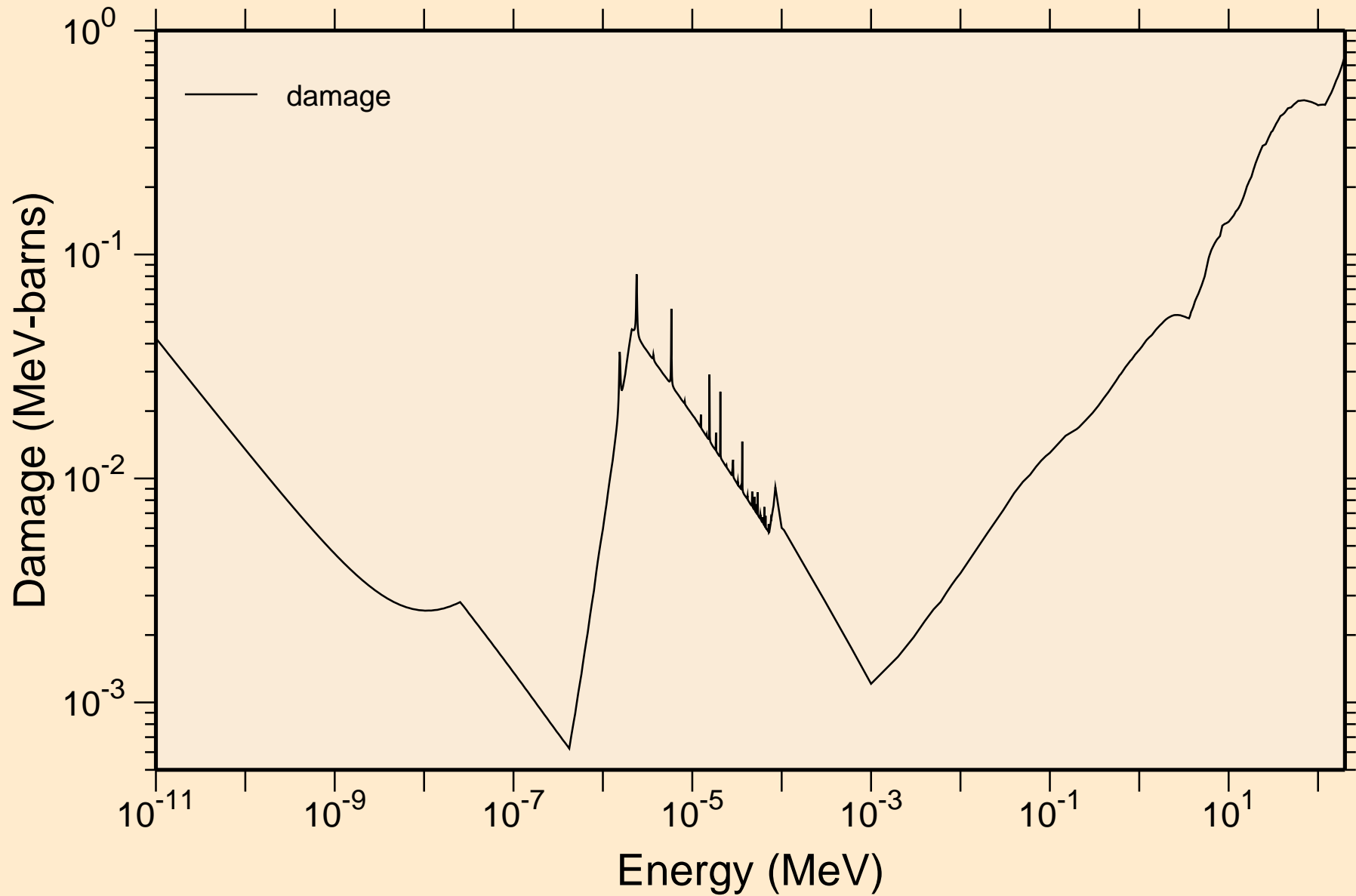
HF164 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Heating





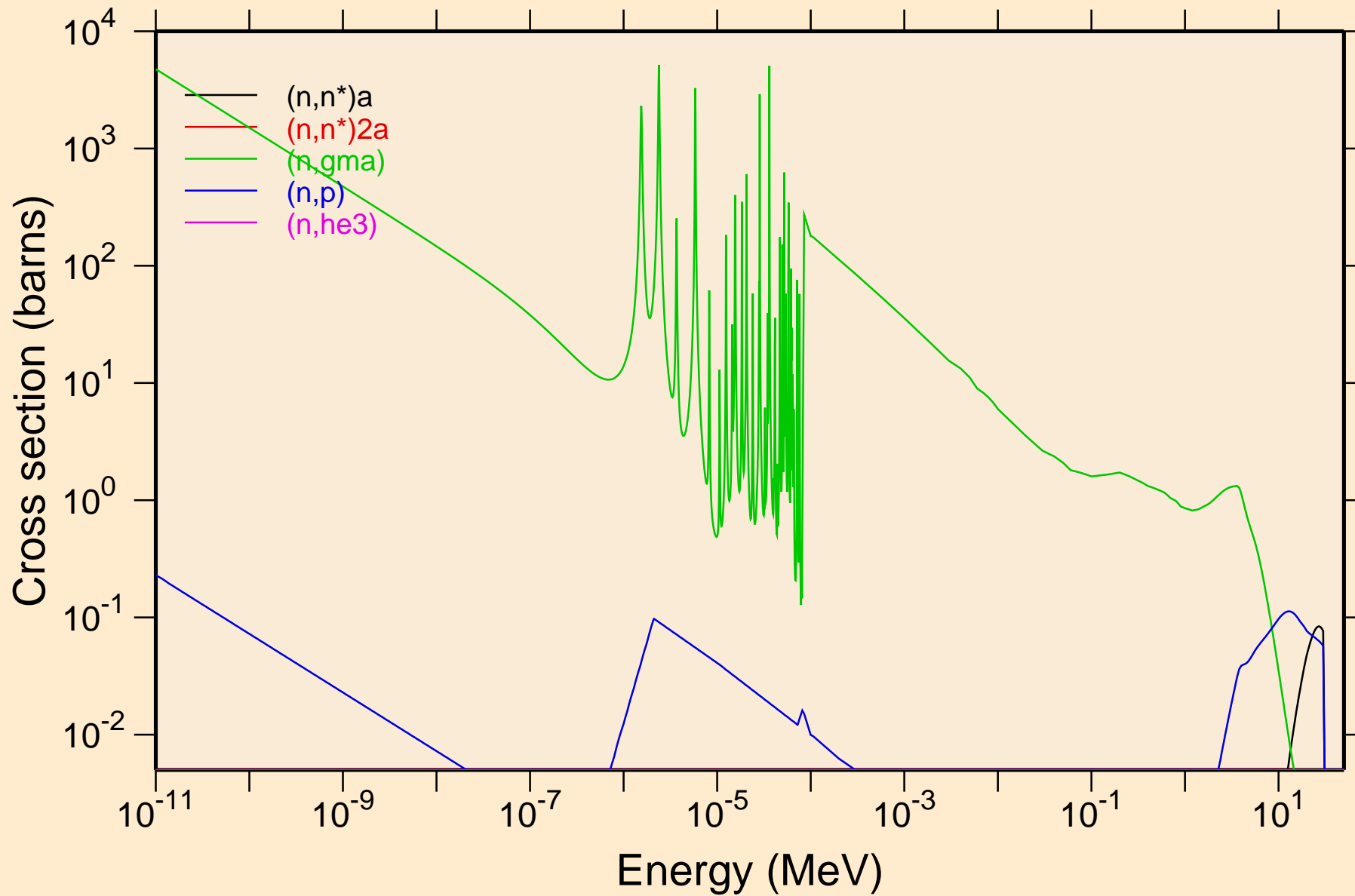
# HF164 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

## Damage



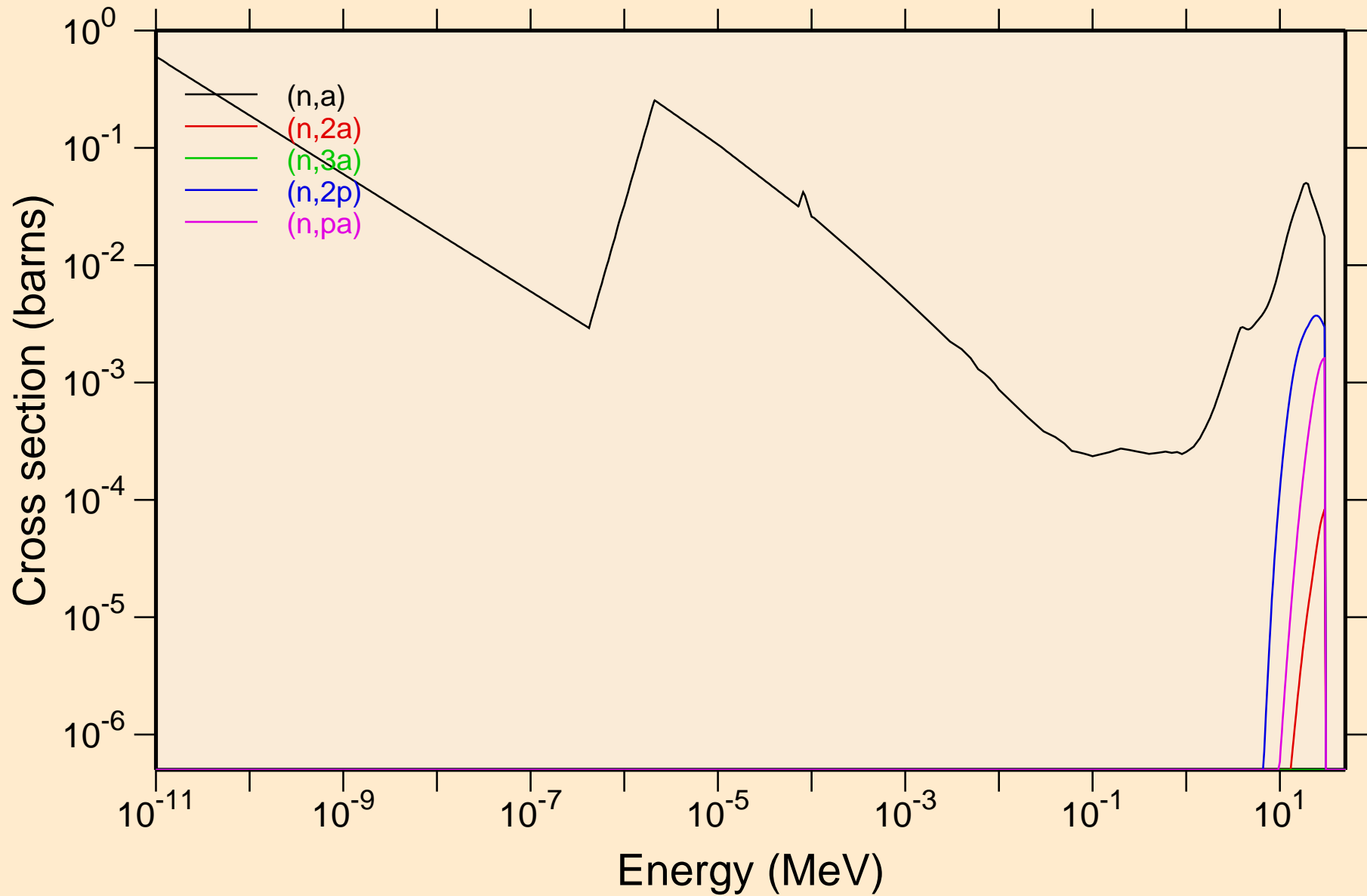
# HF164 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

## Non-threshold reactions

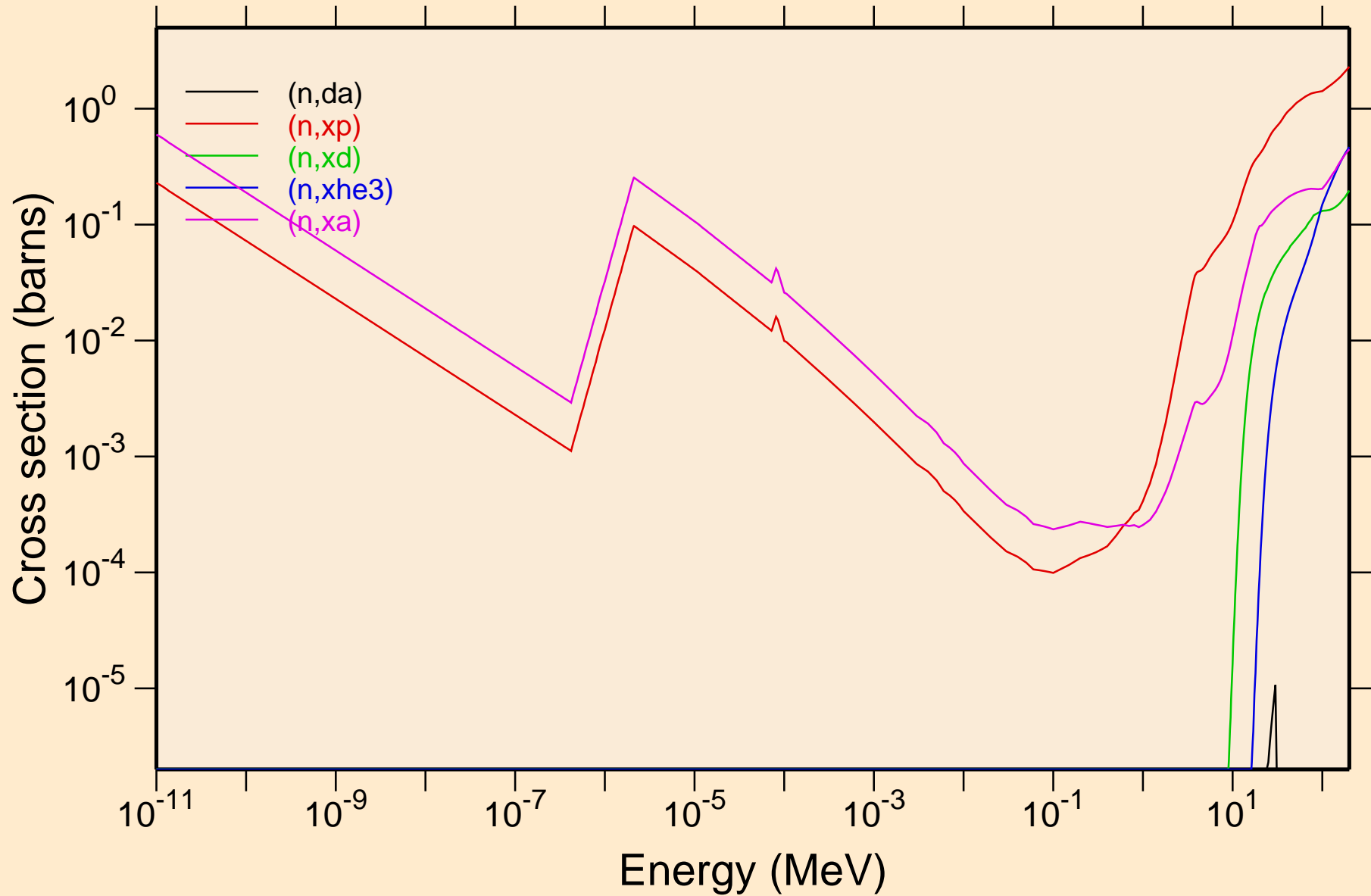


# HF164 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

## Non-threshold reactions

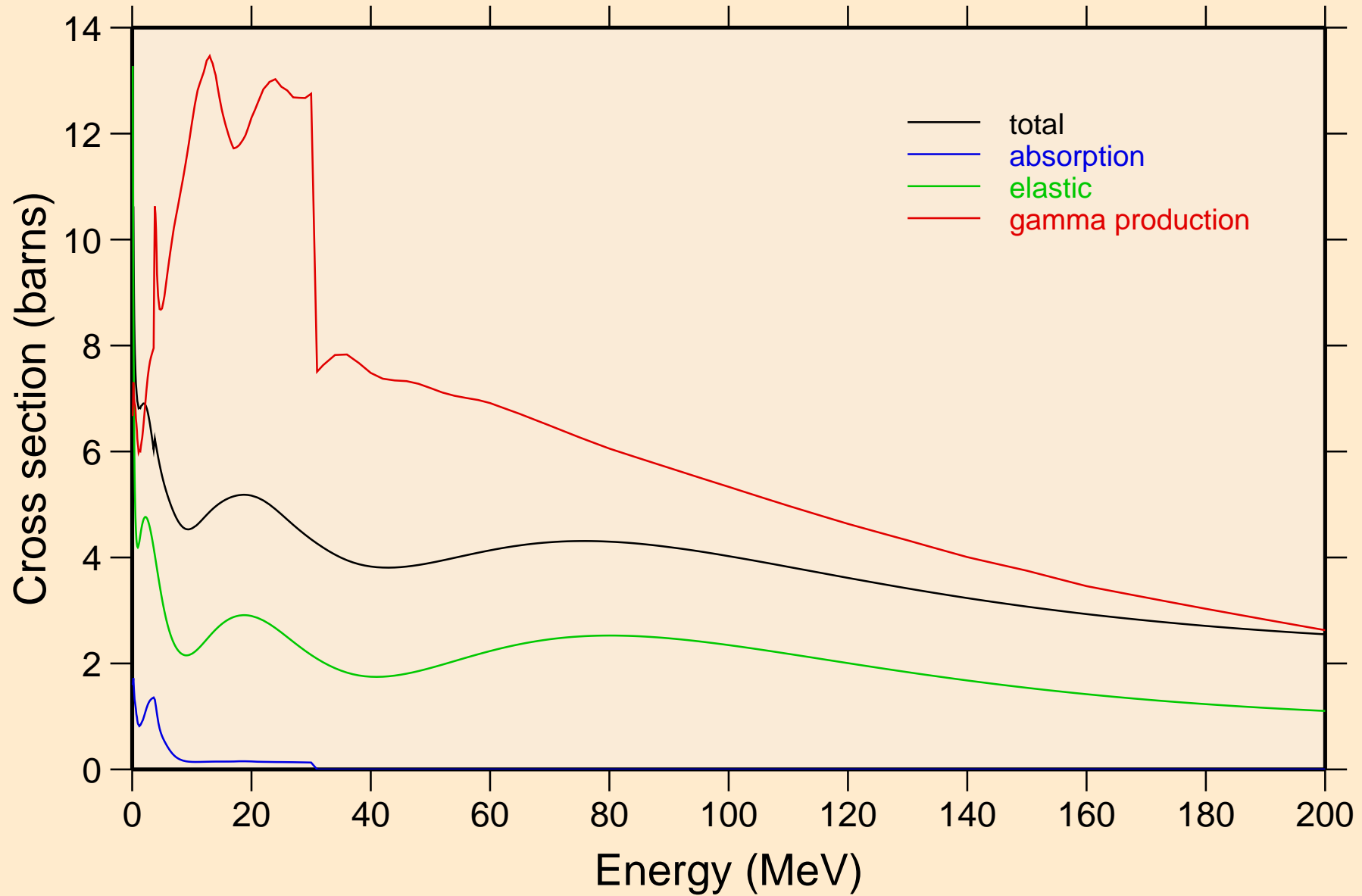


HF164 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Non-threshold reactions



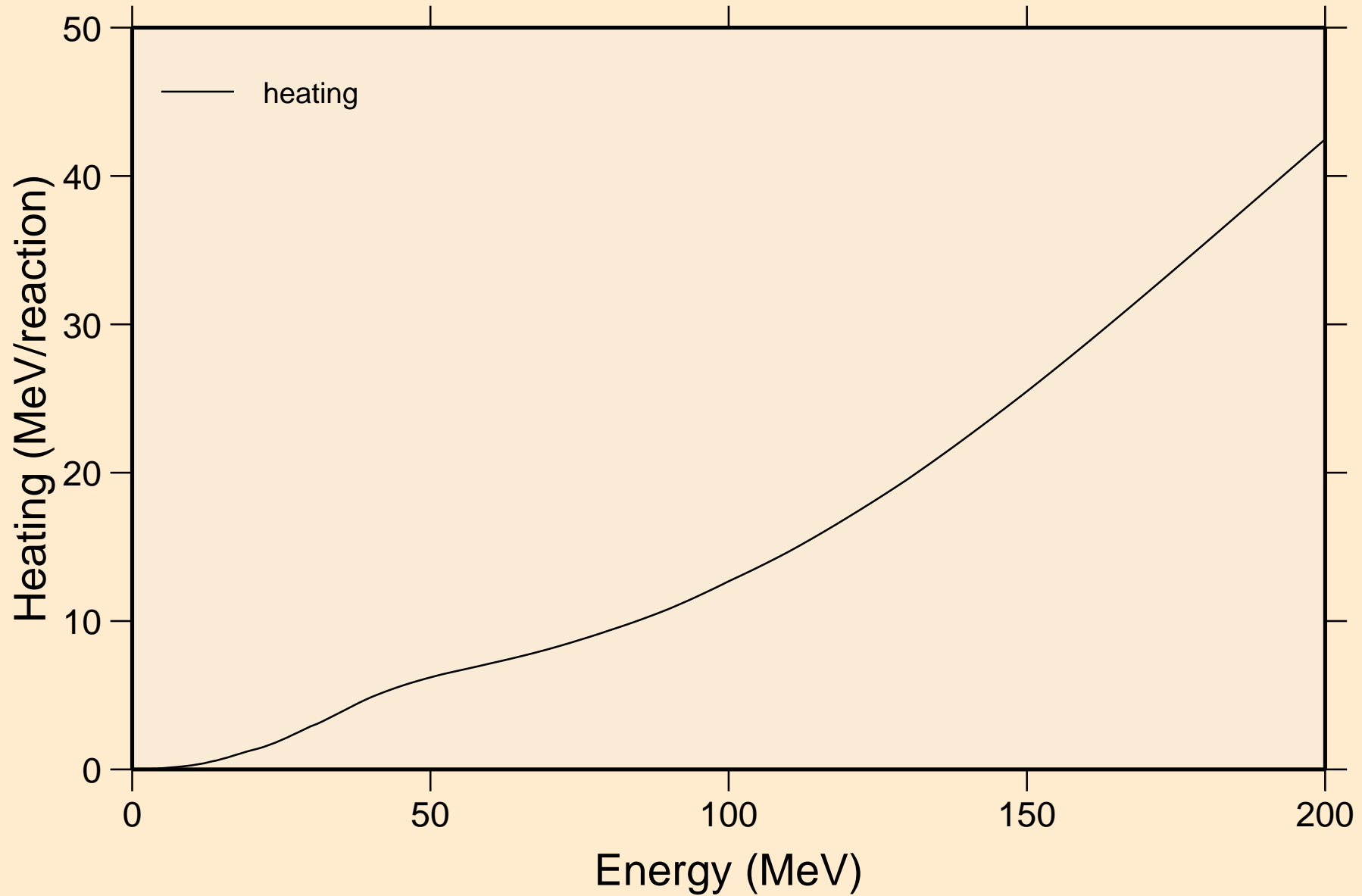
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## Principal cross sections



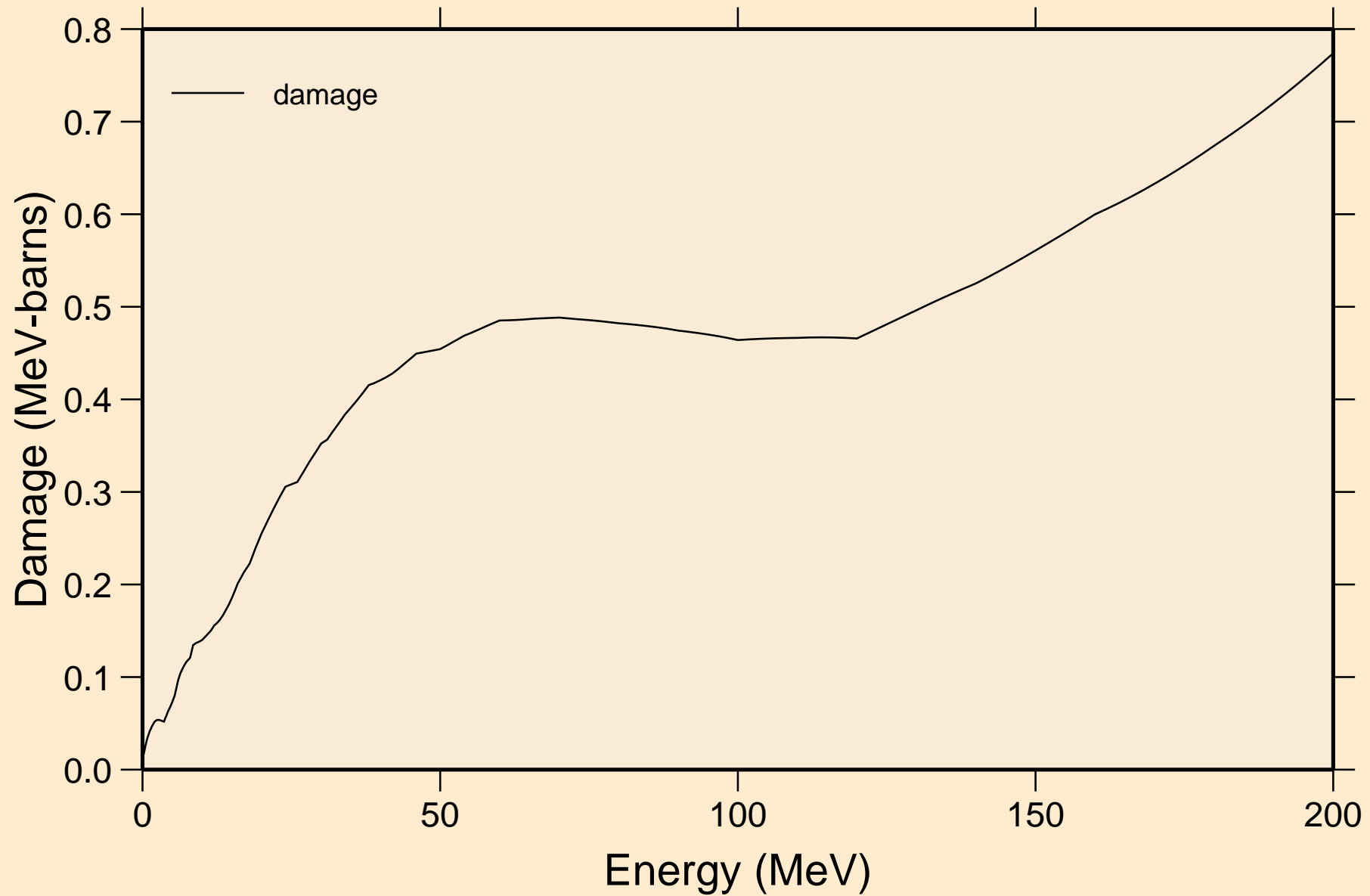
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## Heating



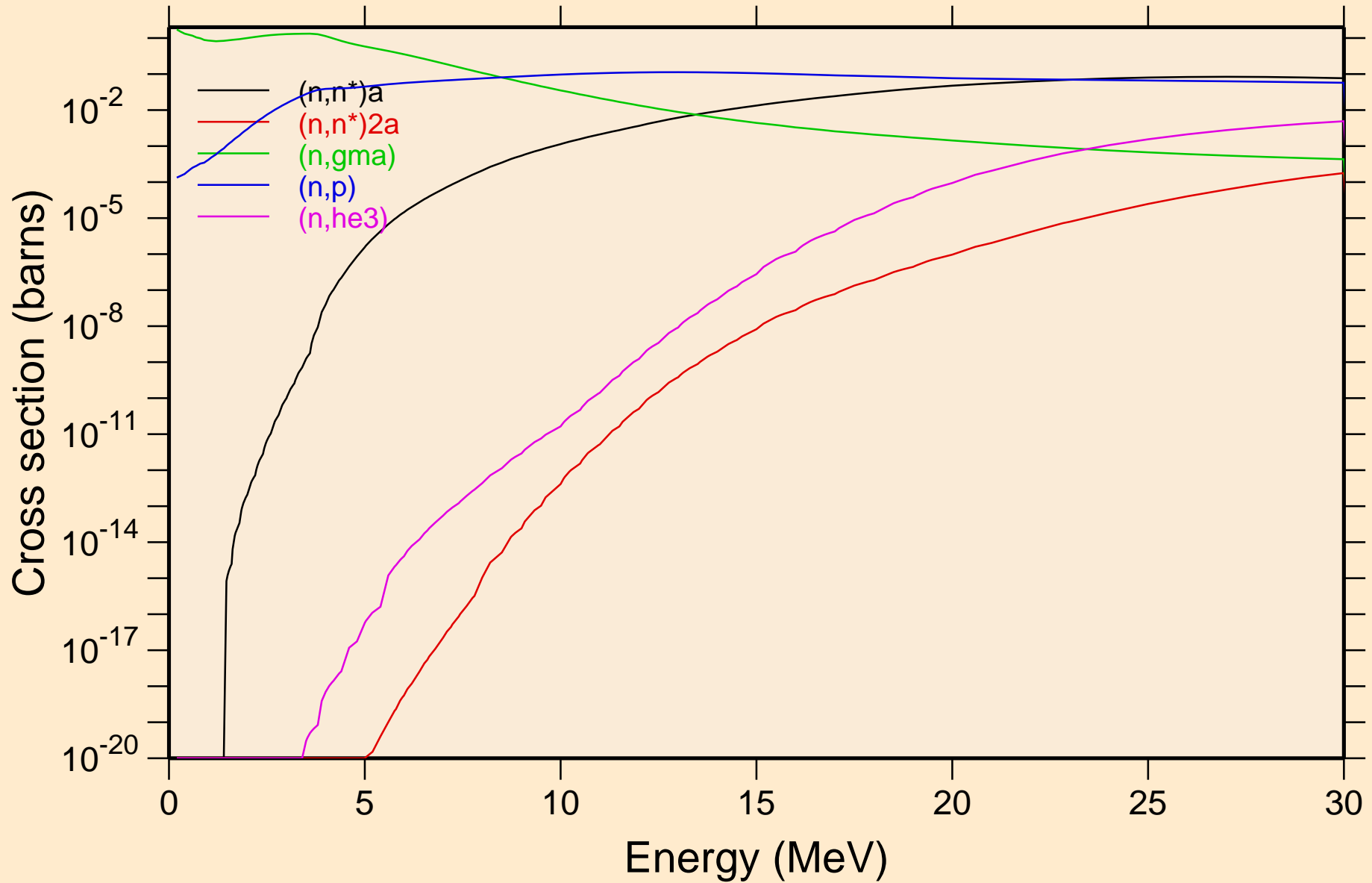
# HF164 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

## Damage



# HF164 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

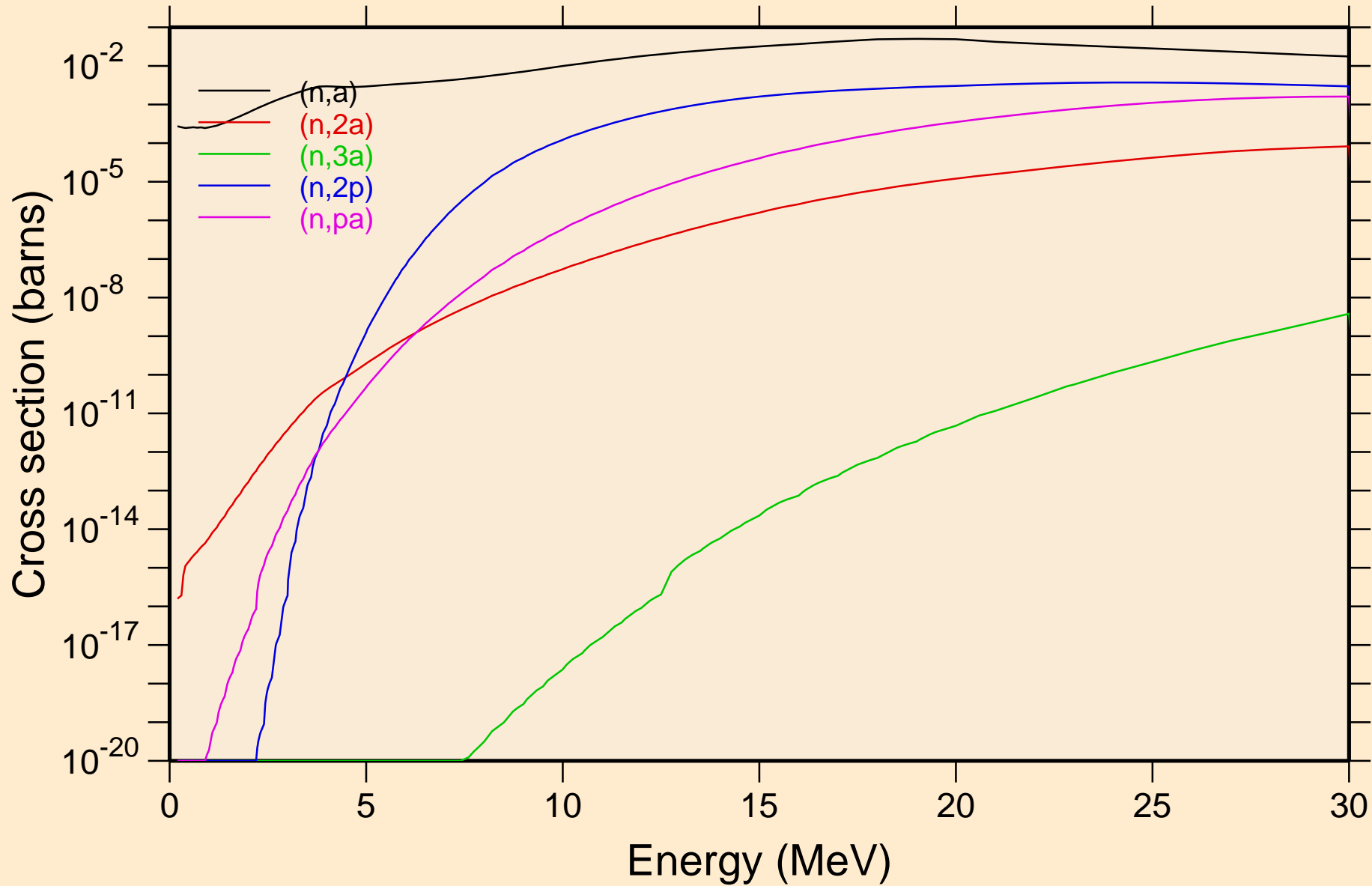
## Non-threshold reactions





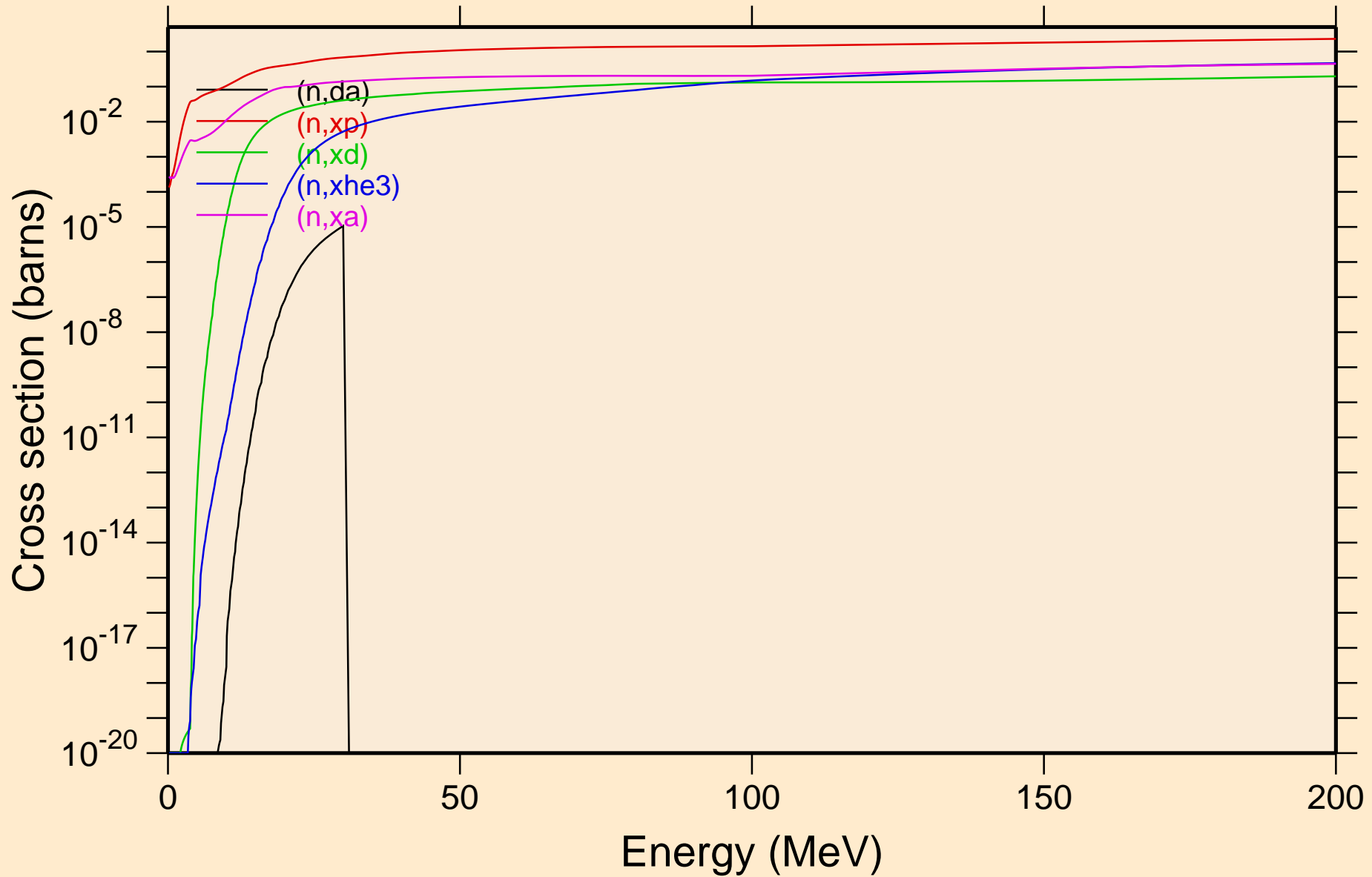
# HF164 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

## Non-threshold reactions



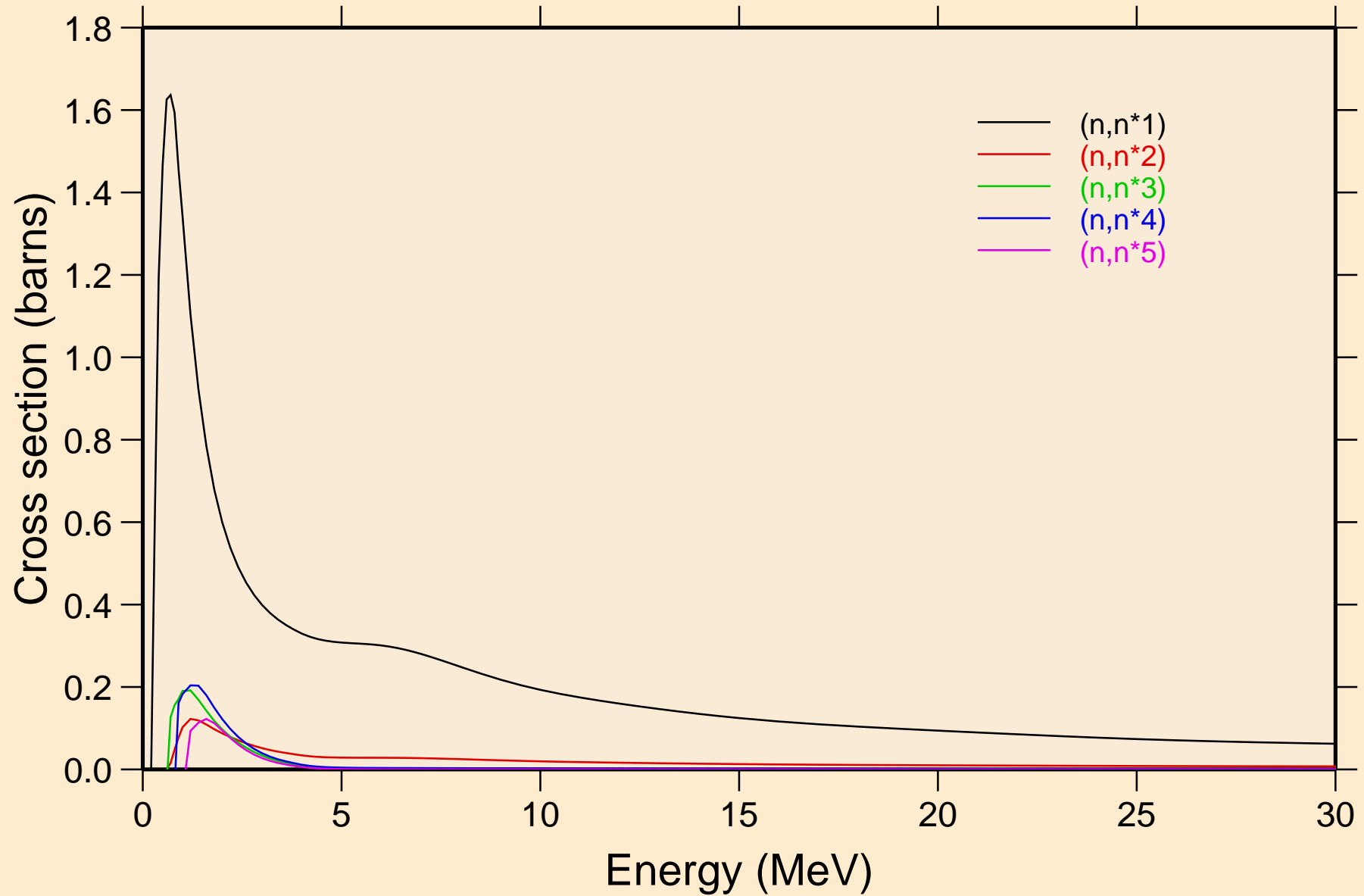
# HF164 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

## Non-threshold reactions

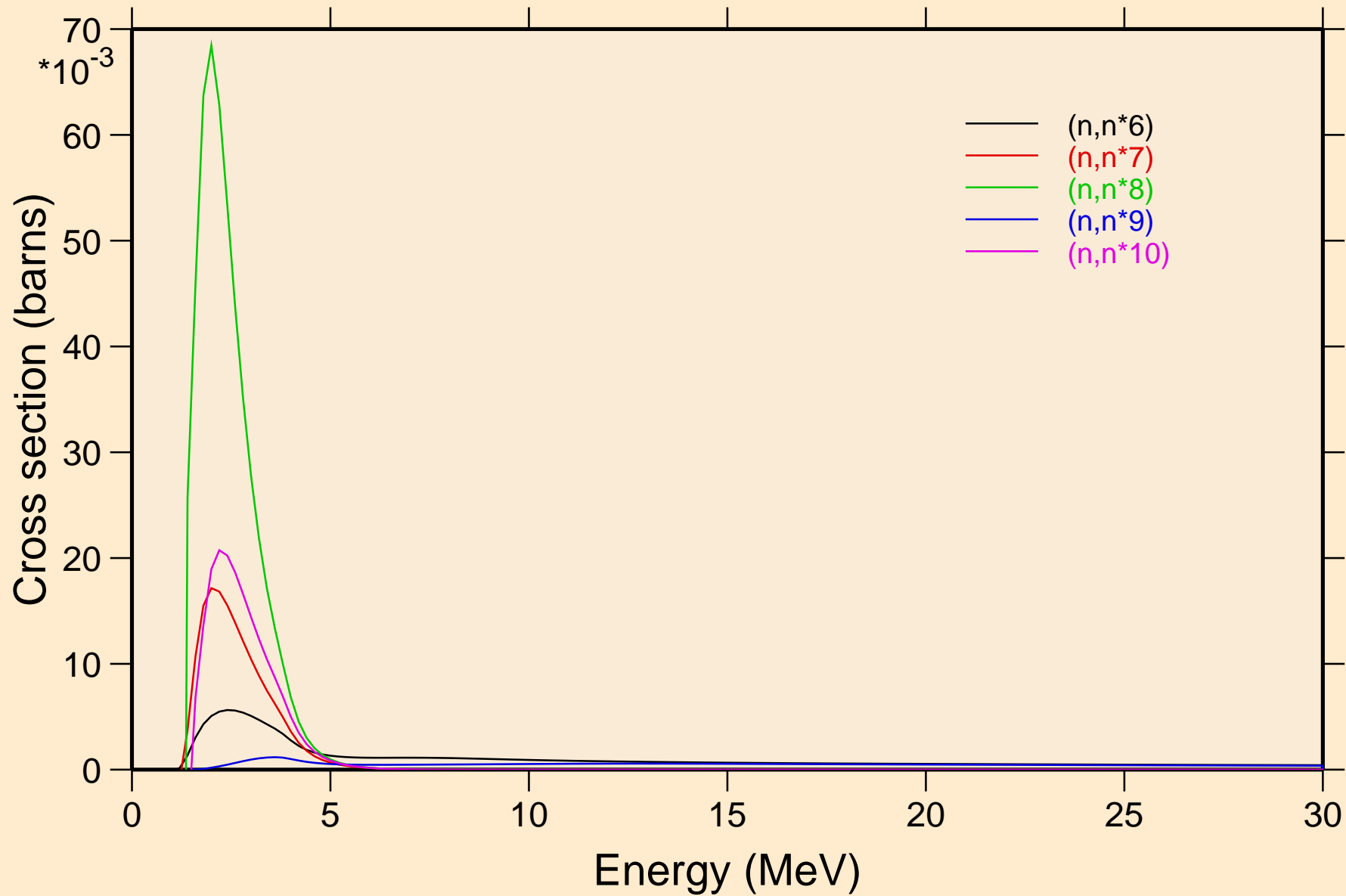


# HF164 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

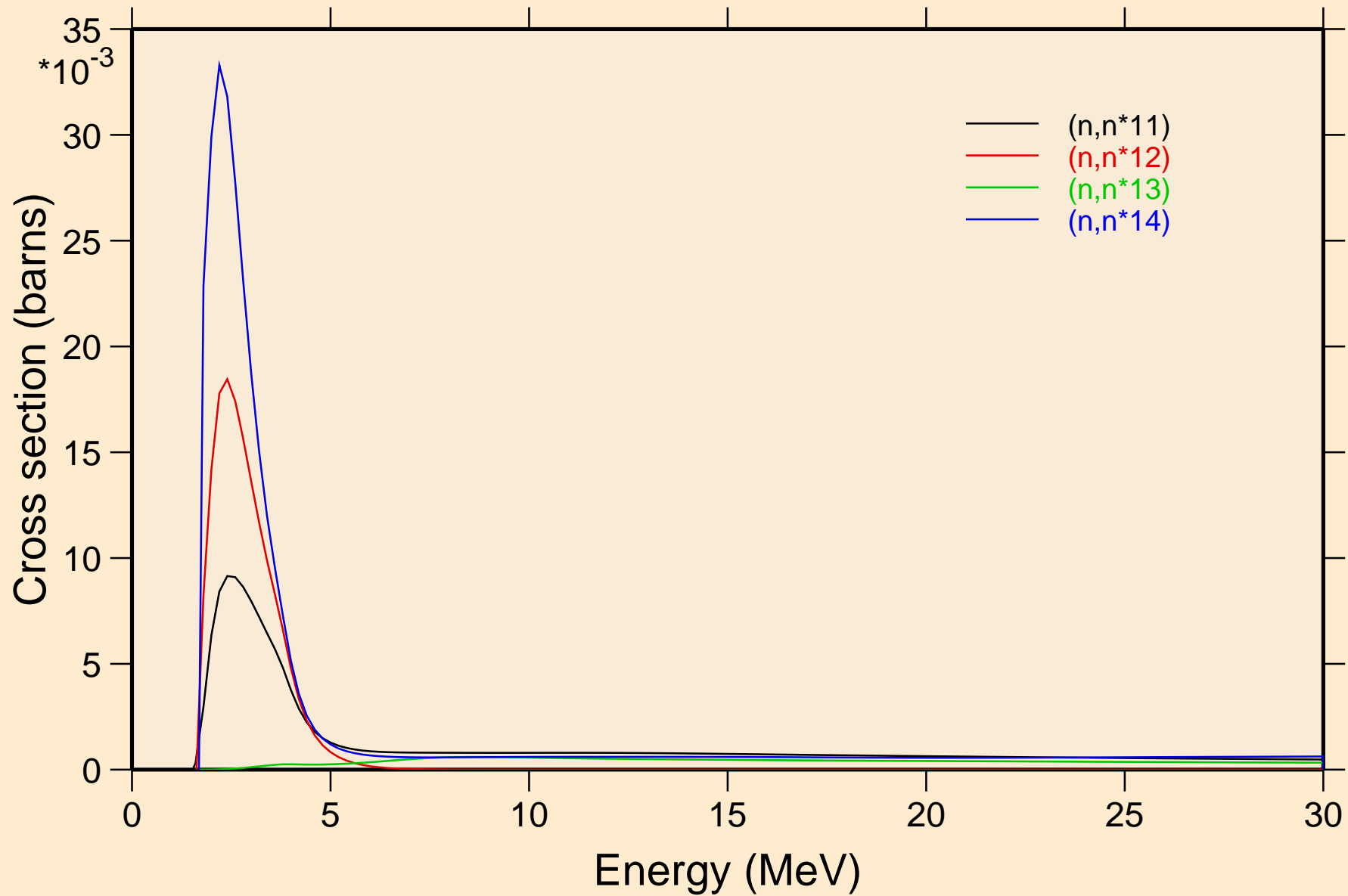
## Inelastic levels



HF164 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Inelastic levels

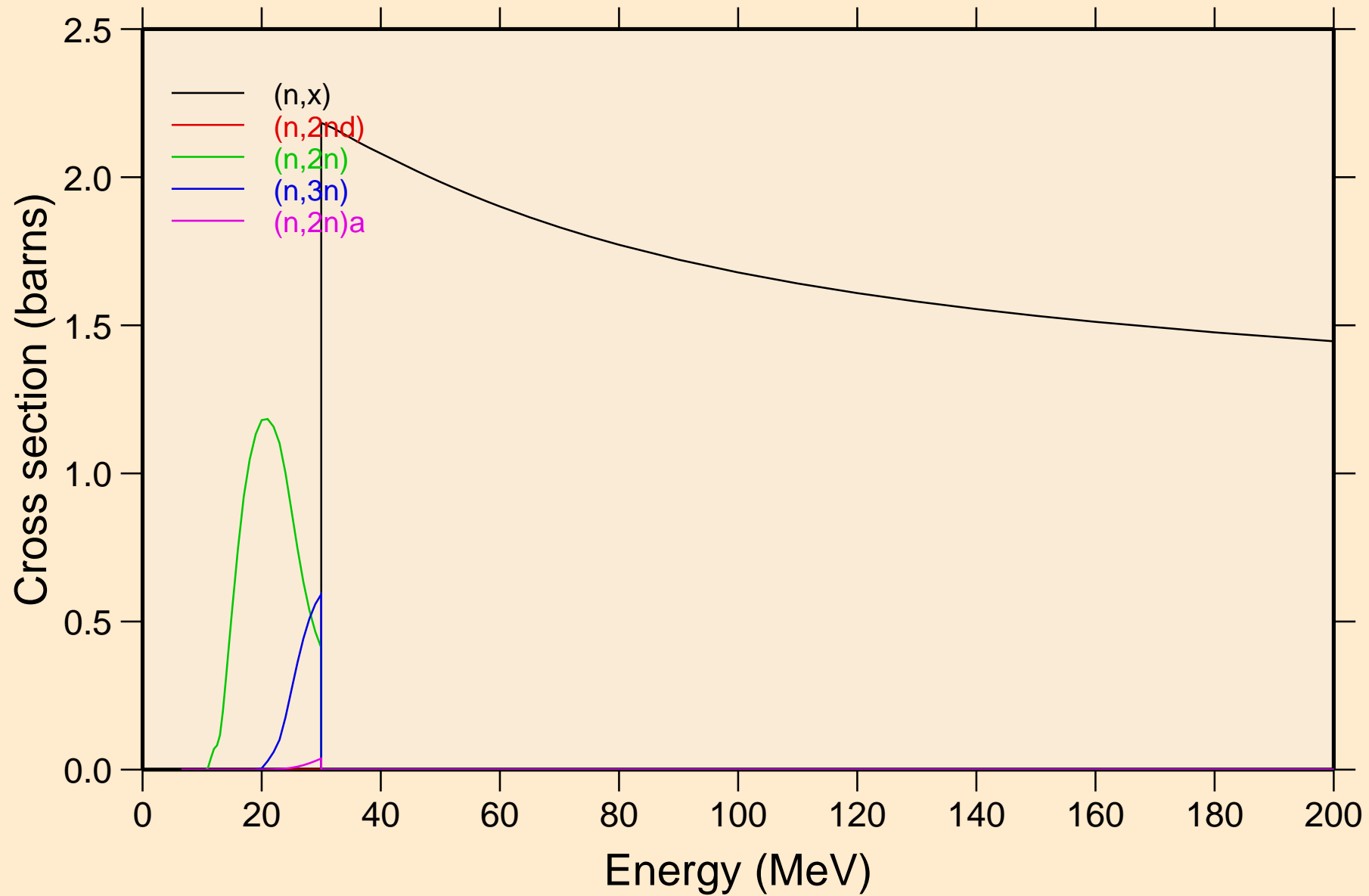


HF164 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Inelastic levels



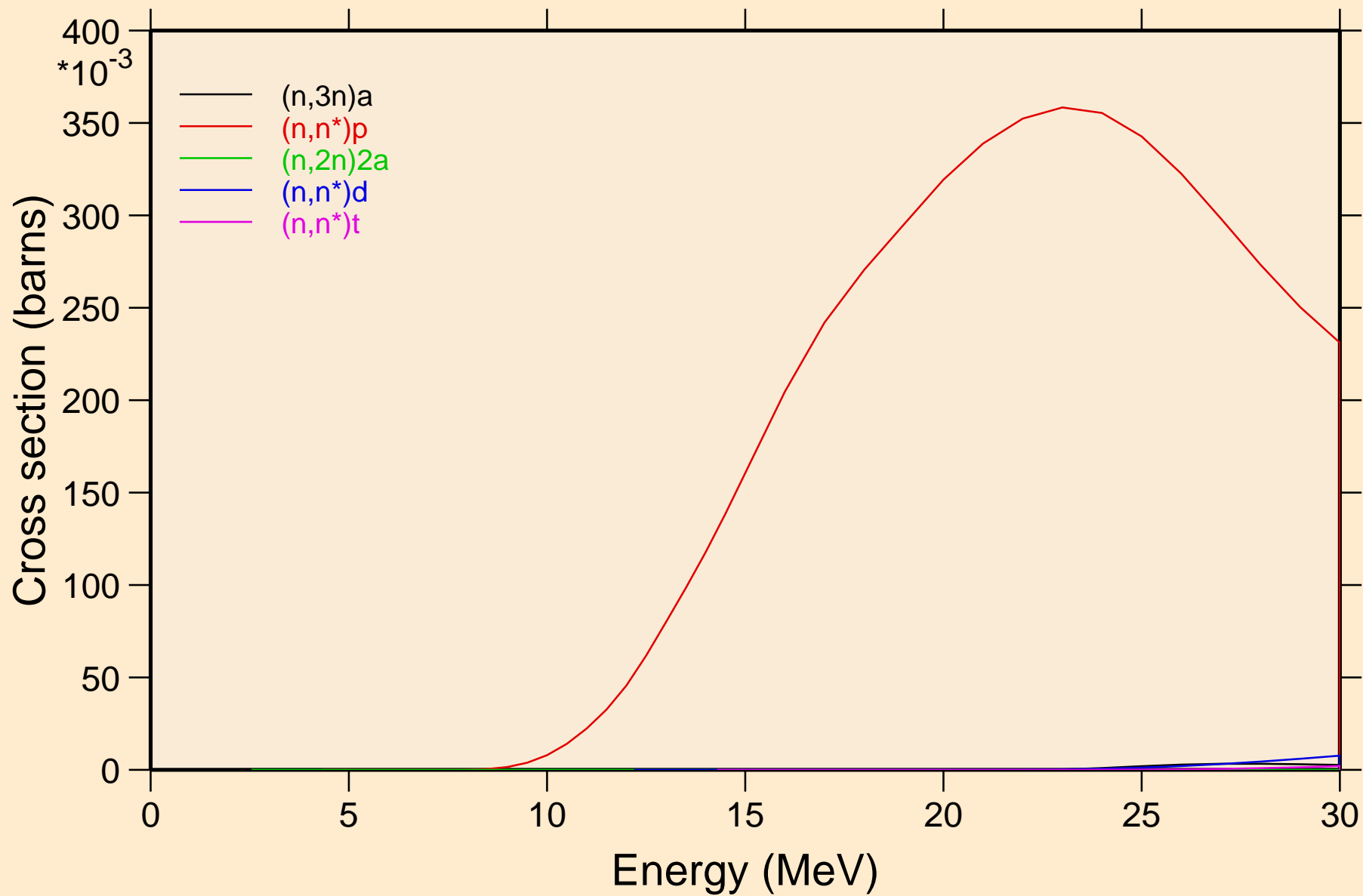
# HF164 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

## Threshold reactions



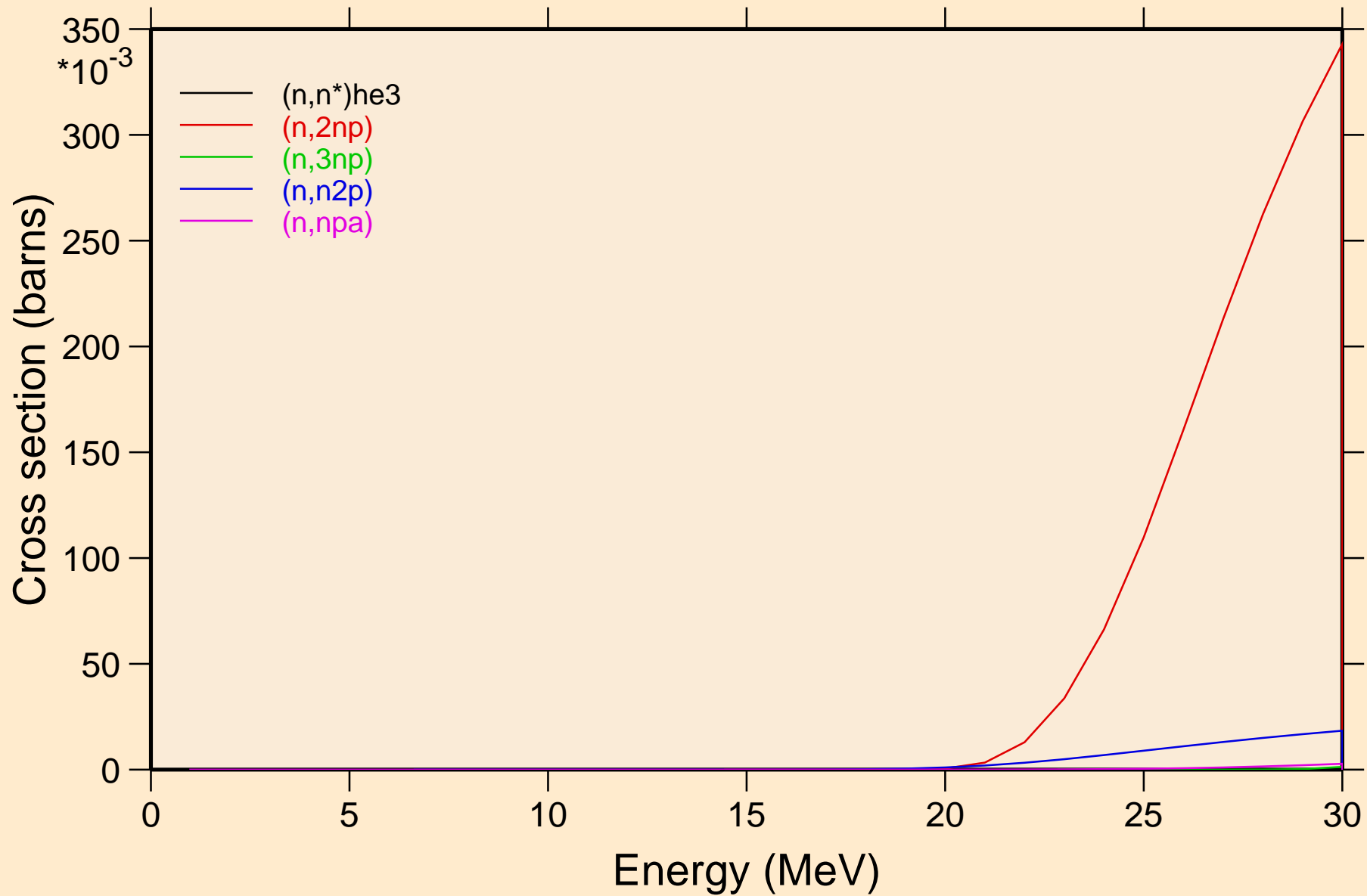
# HF164 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

## Threshold reactions



# HF164 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

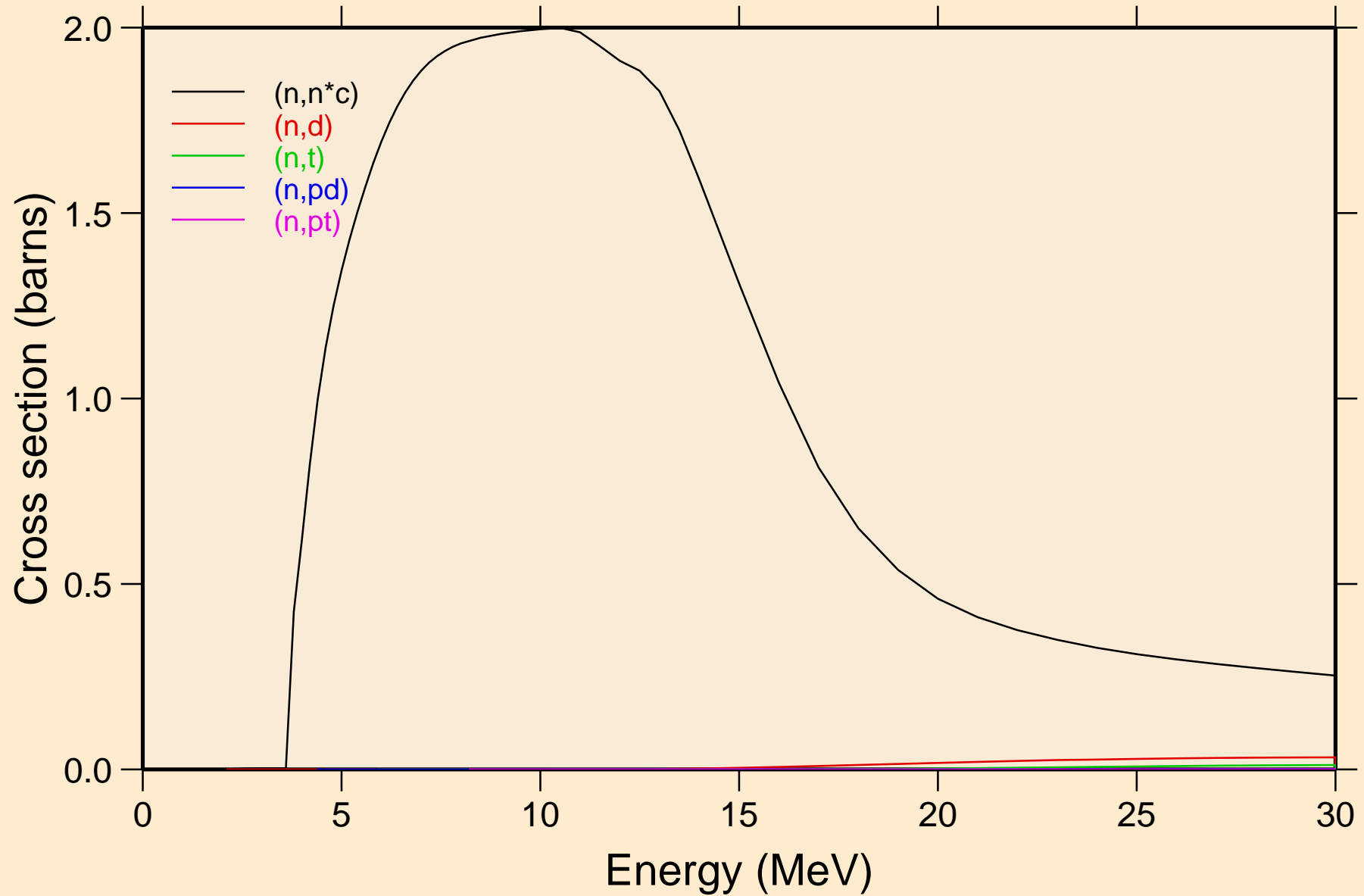
## Threshold reactions



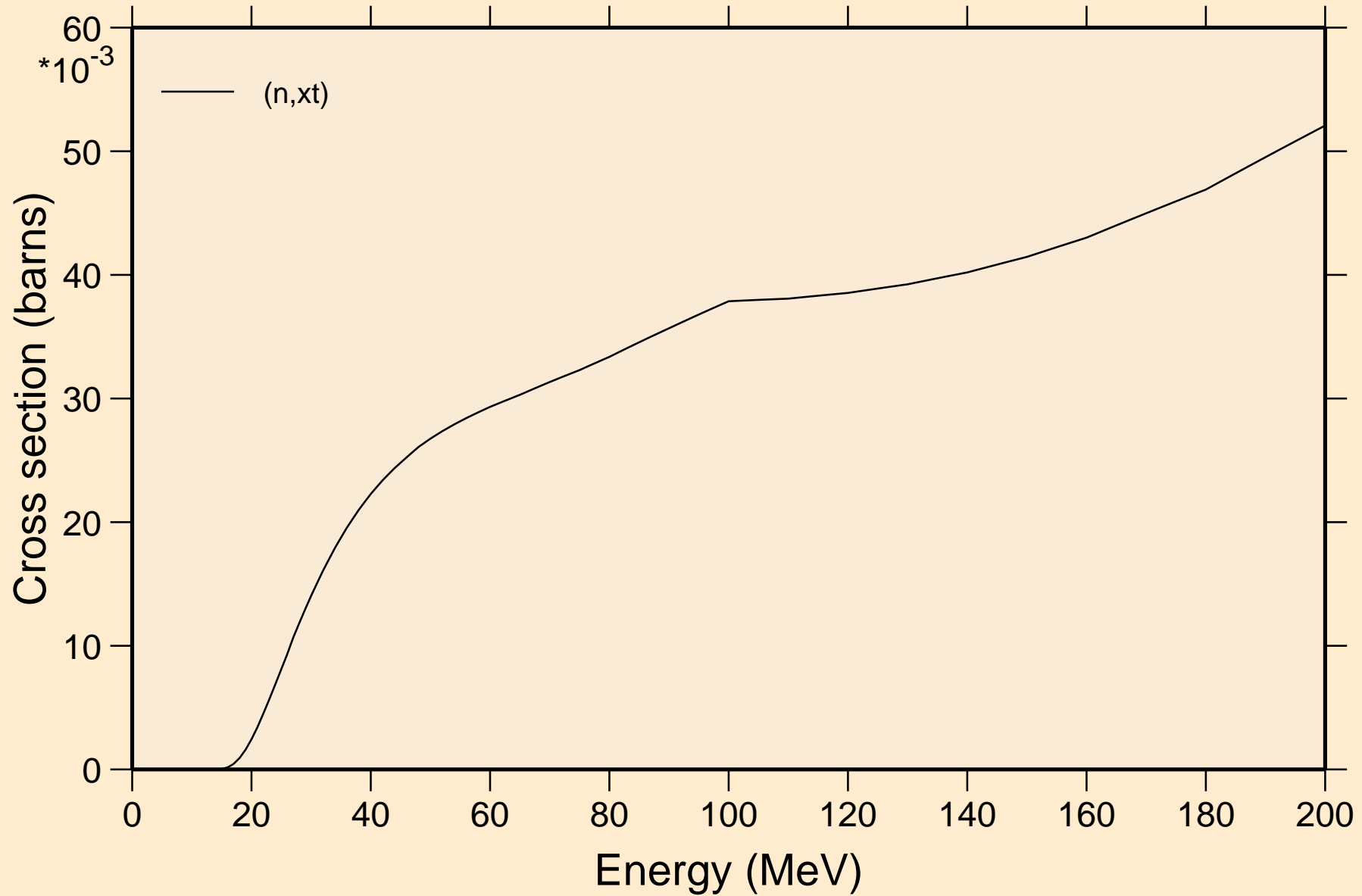


# HF164 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

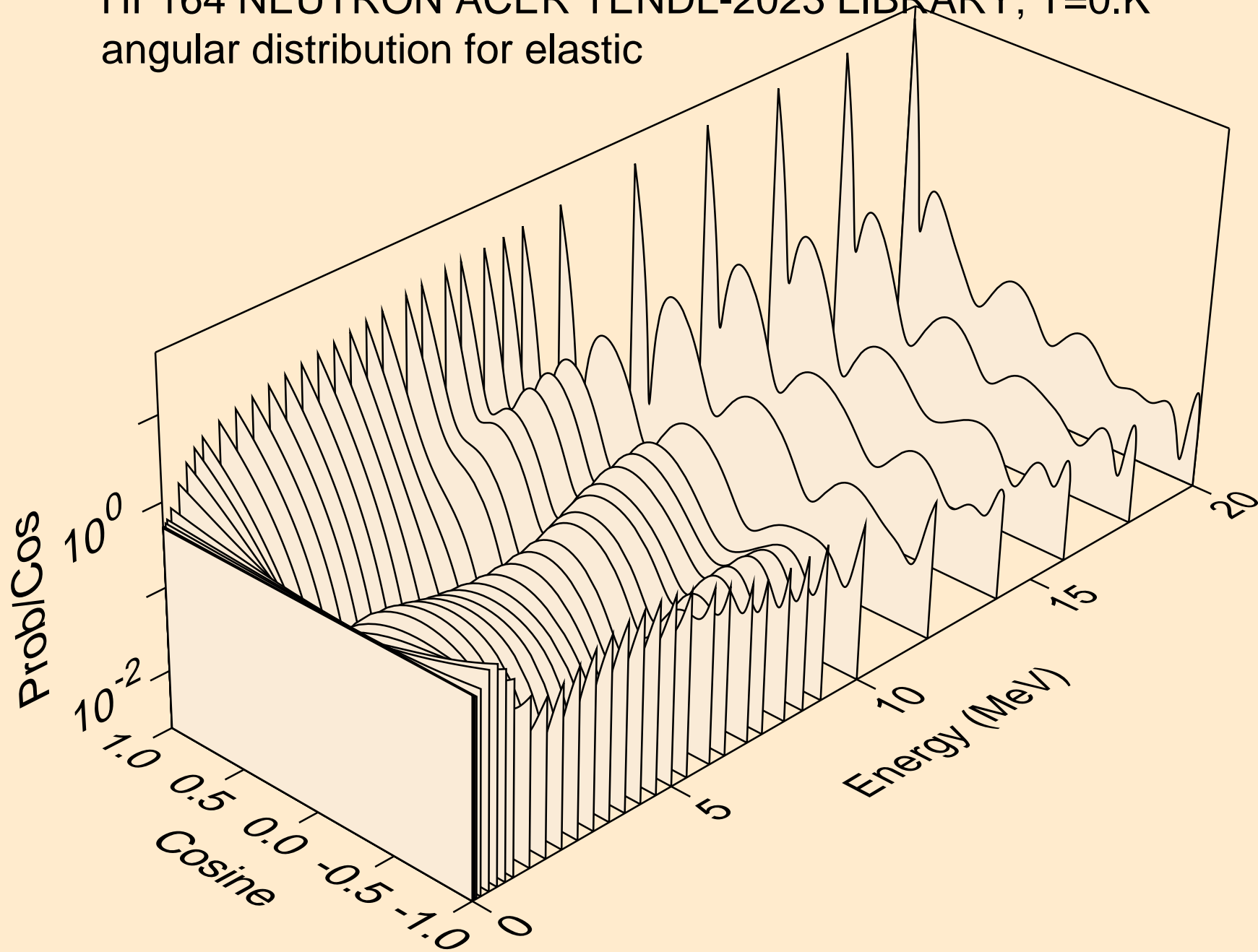
## Threshold reactions



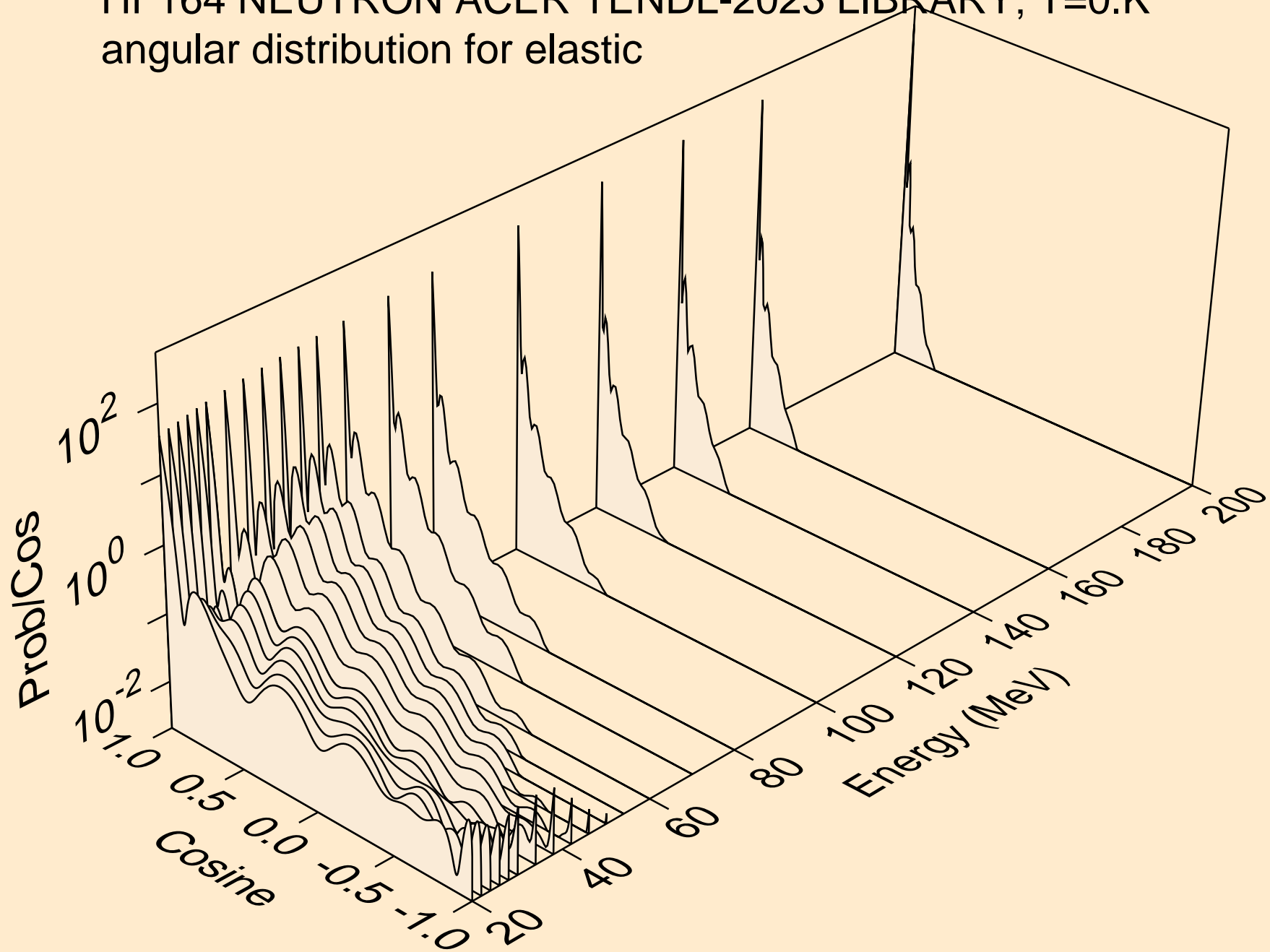
HF164 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Threshold reactions



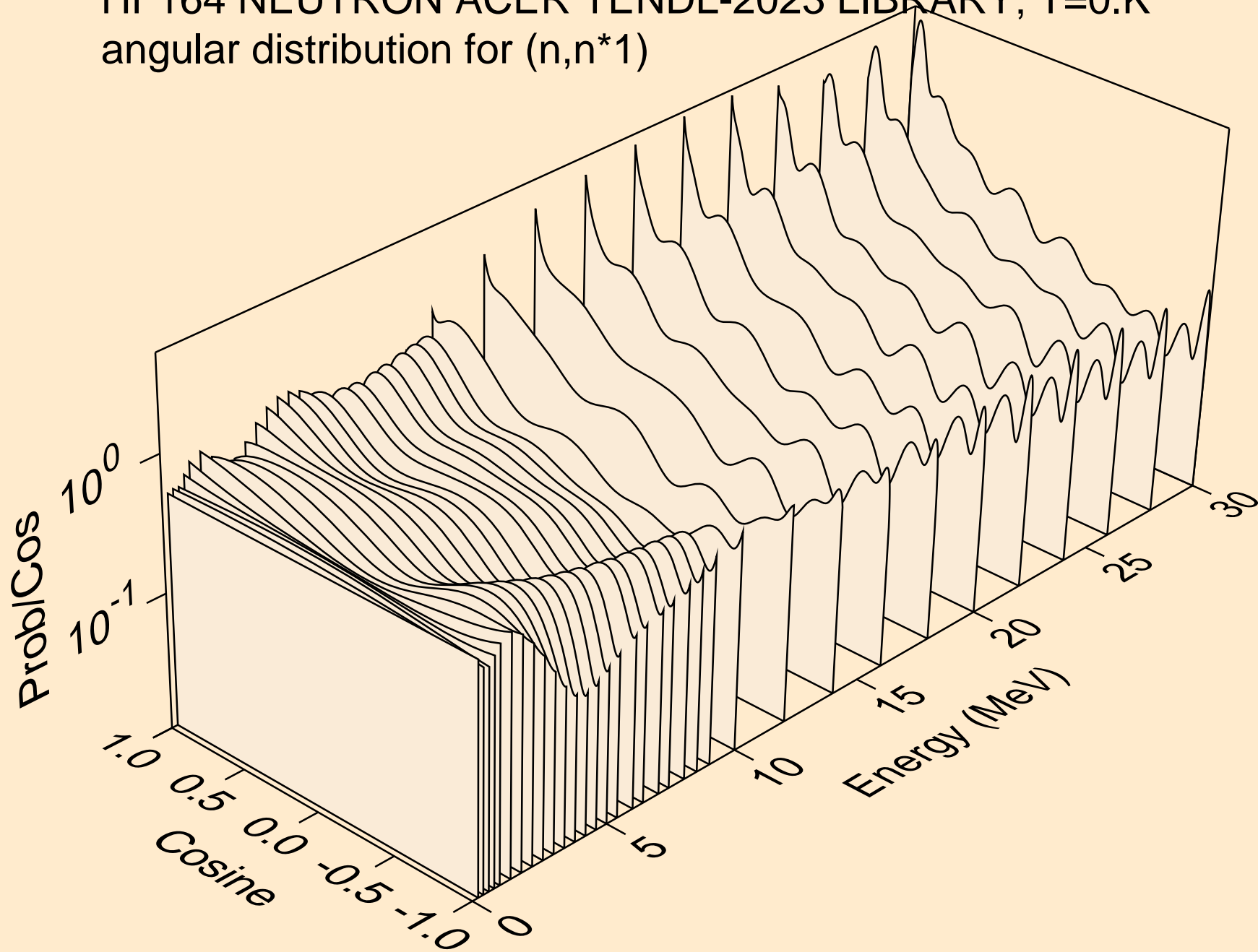
HF164 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for elastic



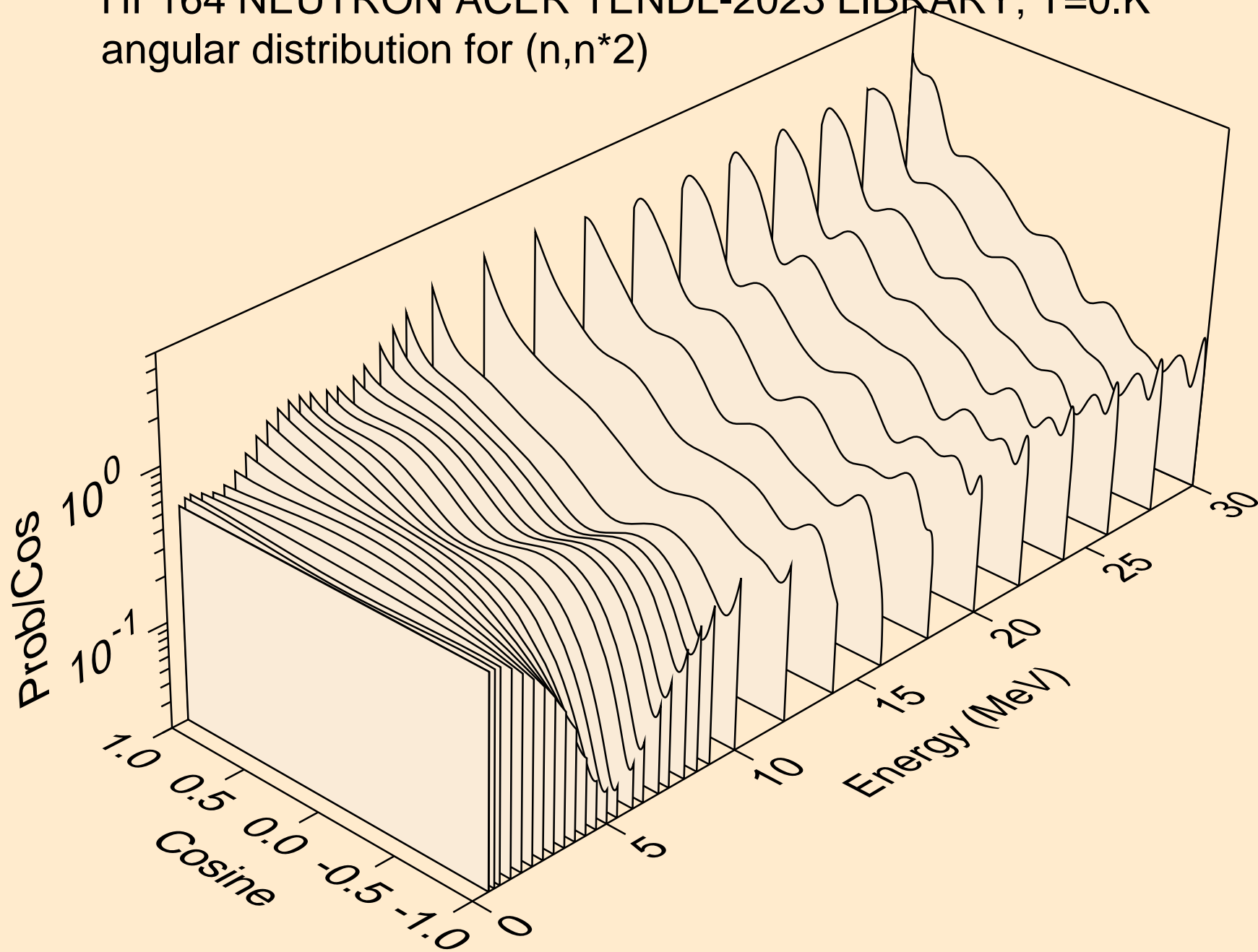
HF164 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for elastic



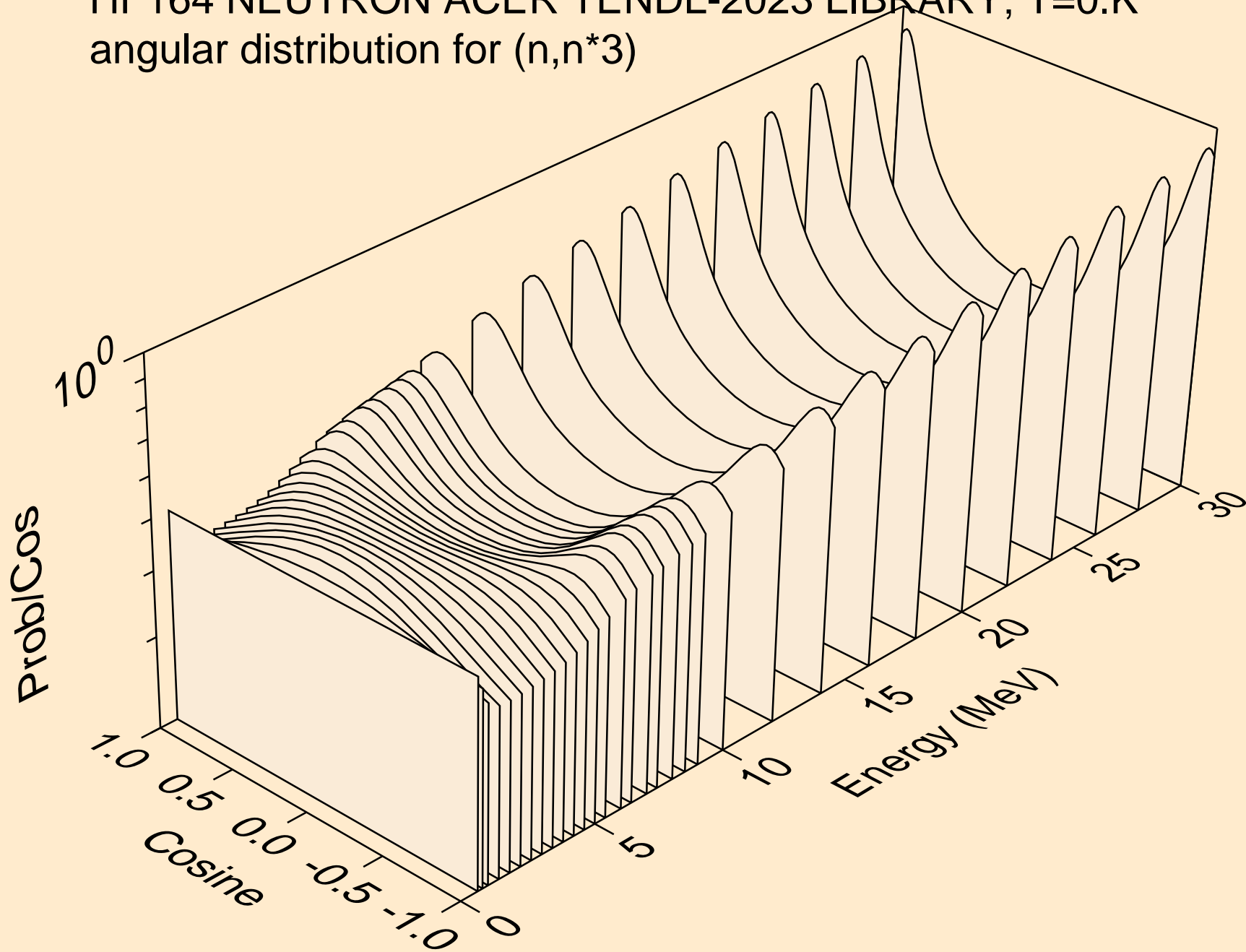
HF164 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*1)



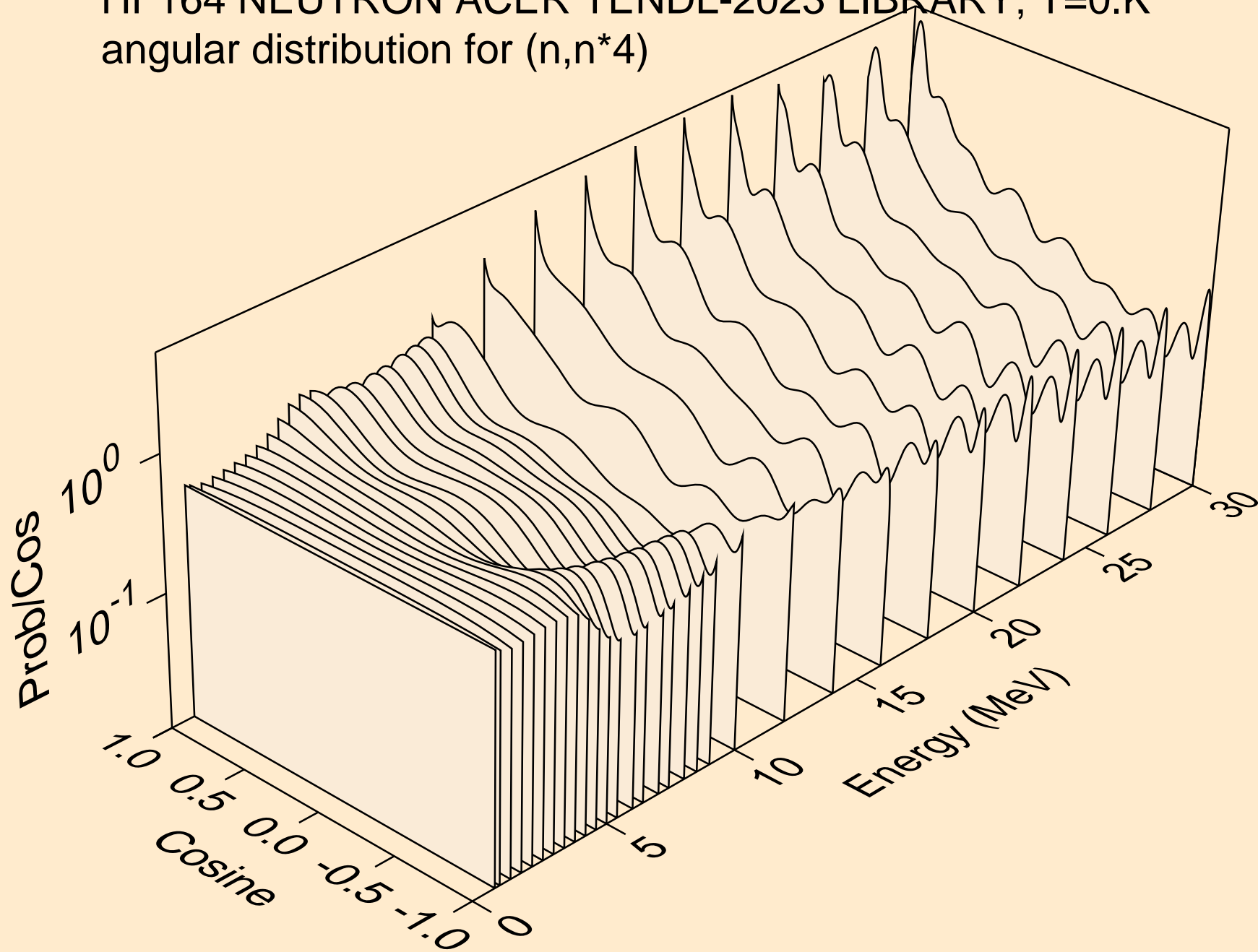
HF164 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*2)



HF164 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*3)

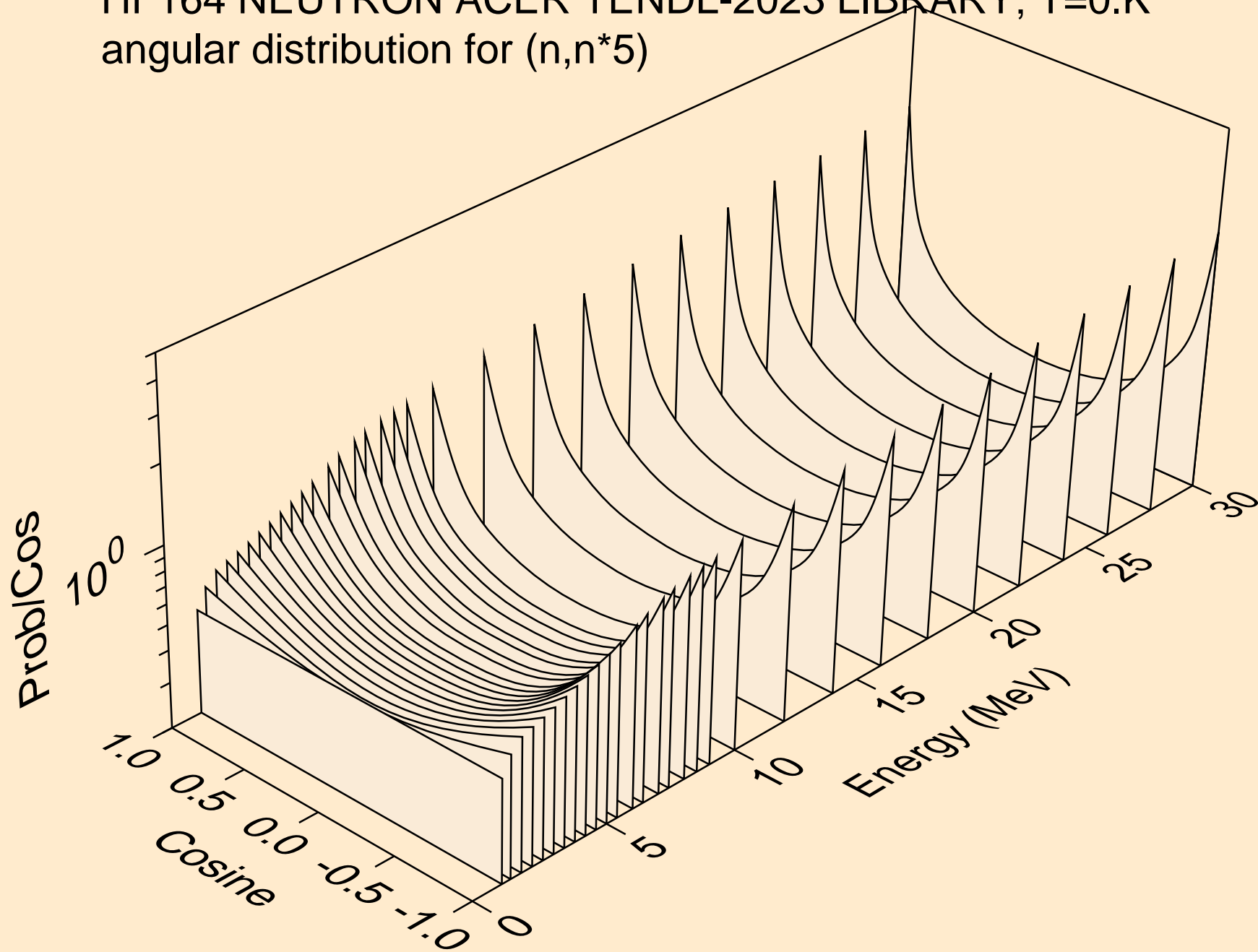


HF164 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*4)

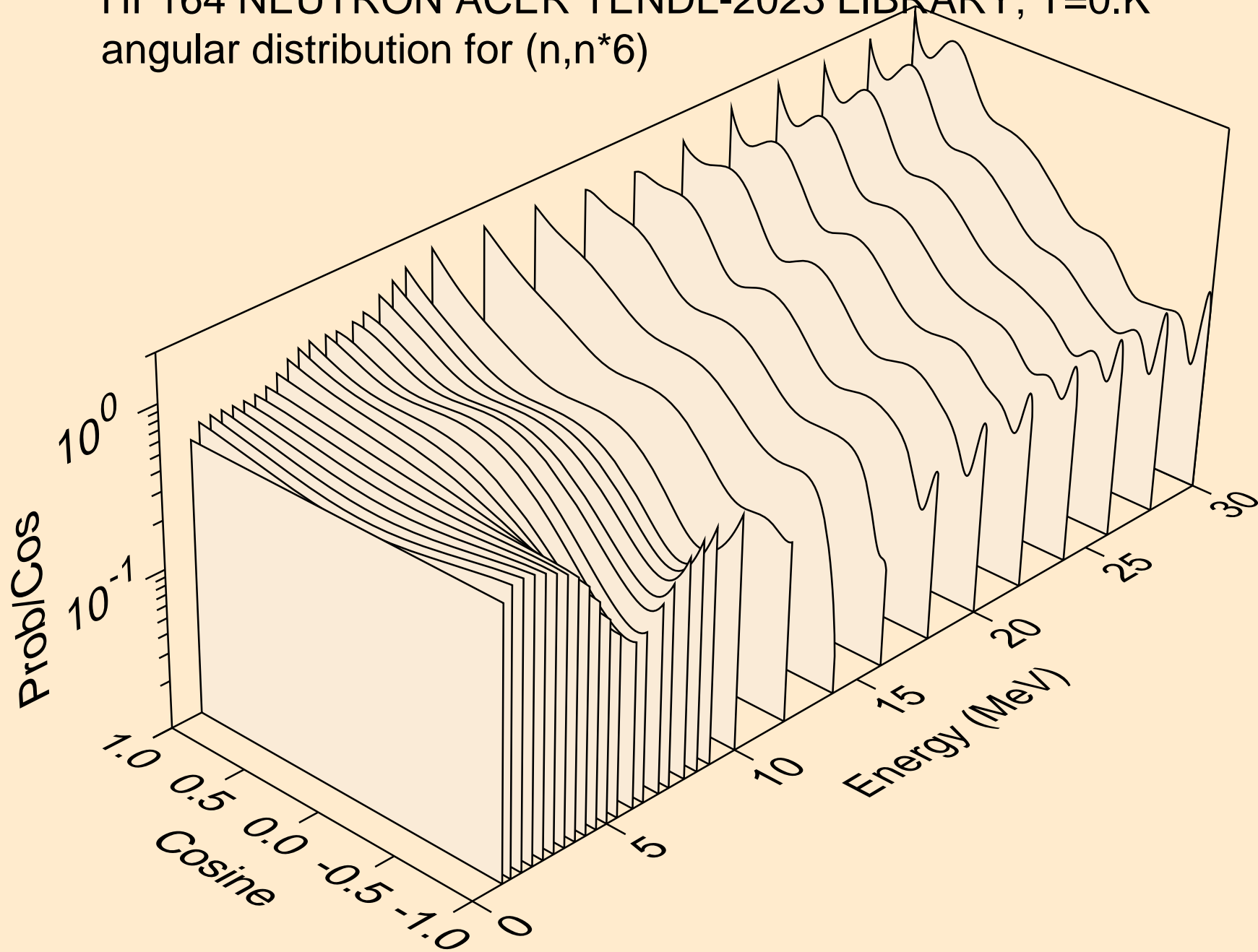




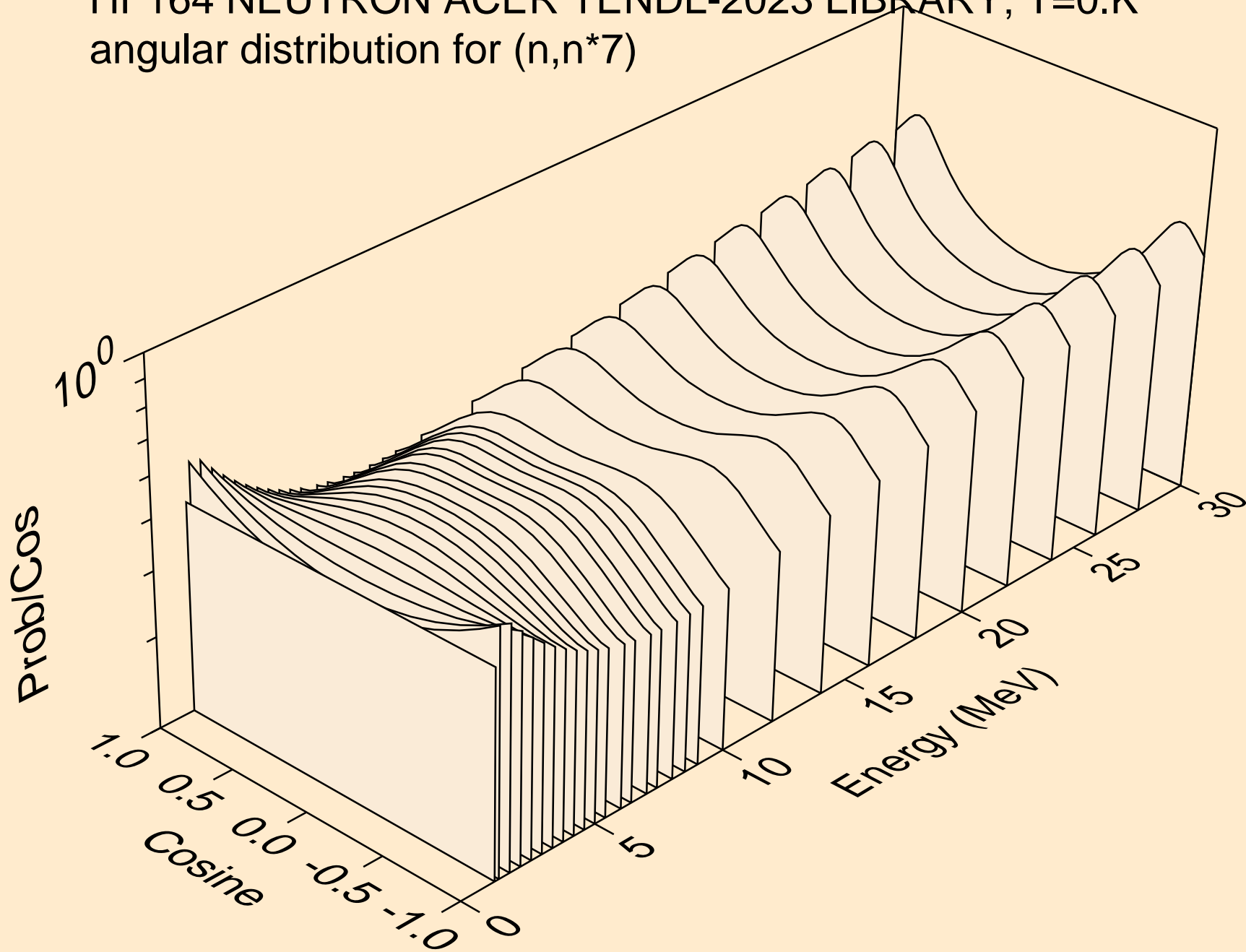
HF164 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*5)



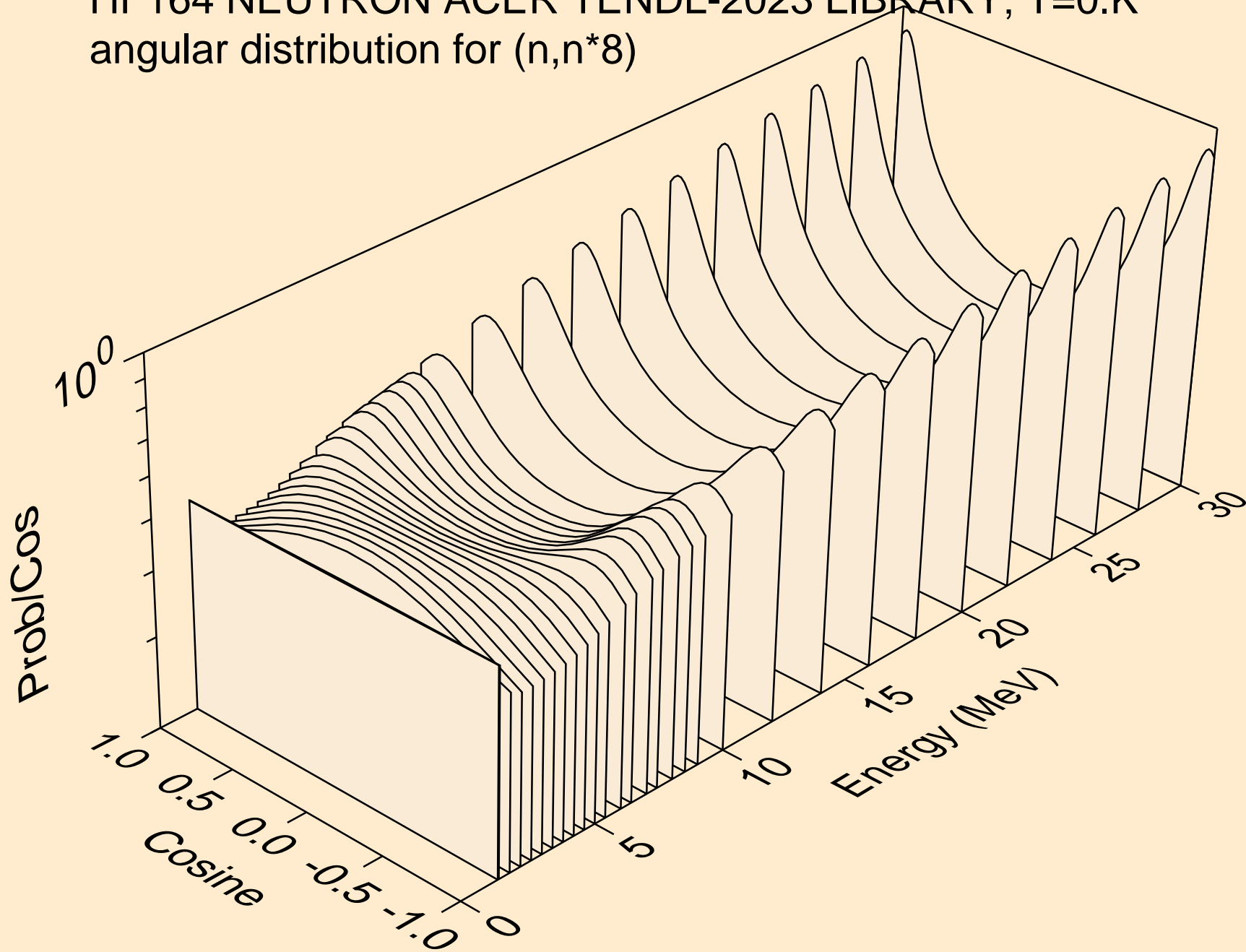
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angular distribution for (n,n\*6)



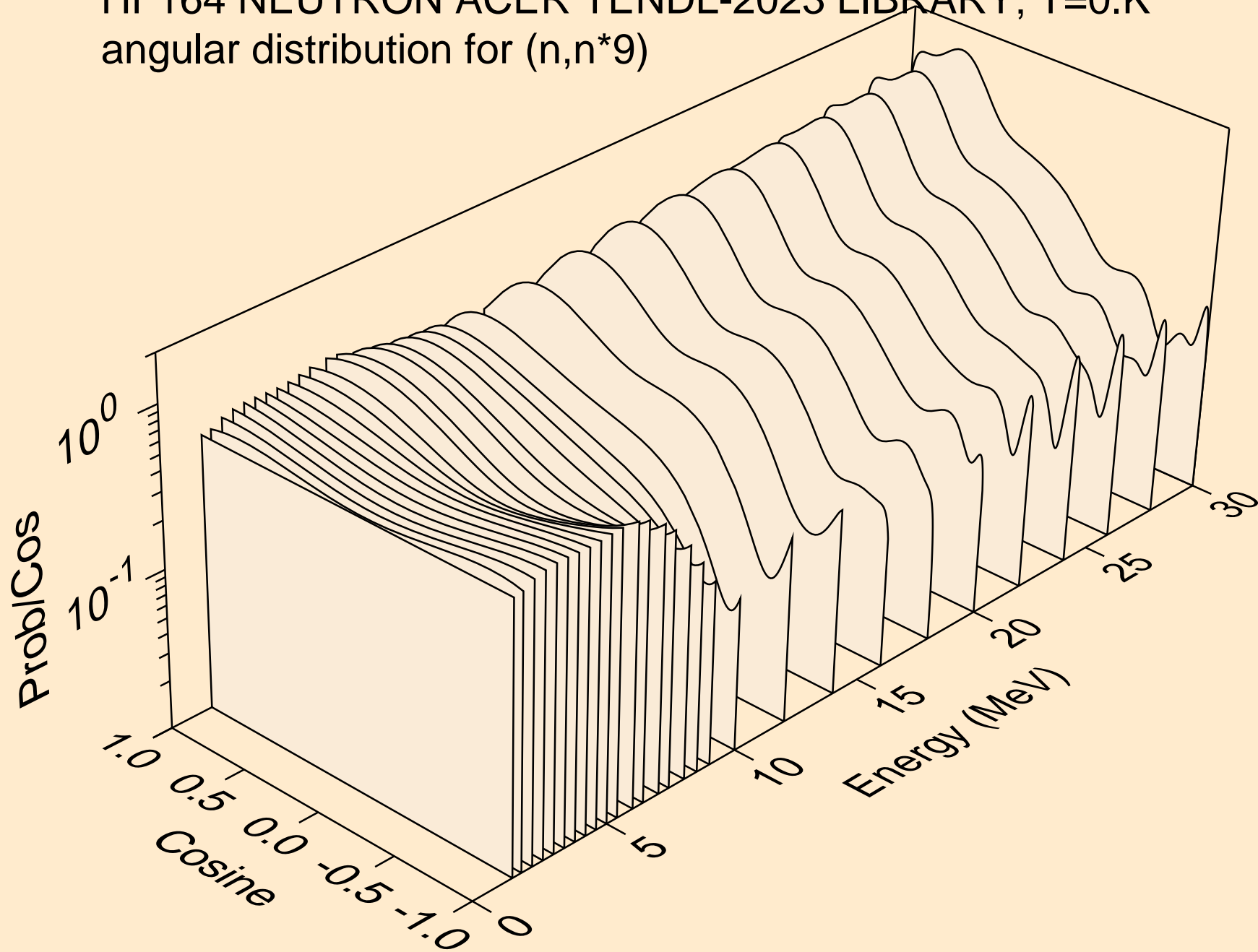
HF164 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*7)



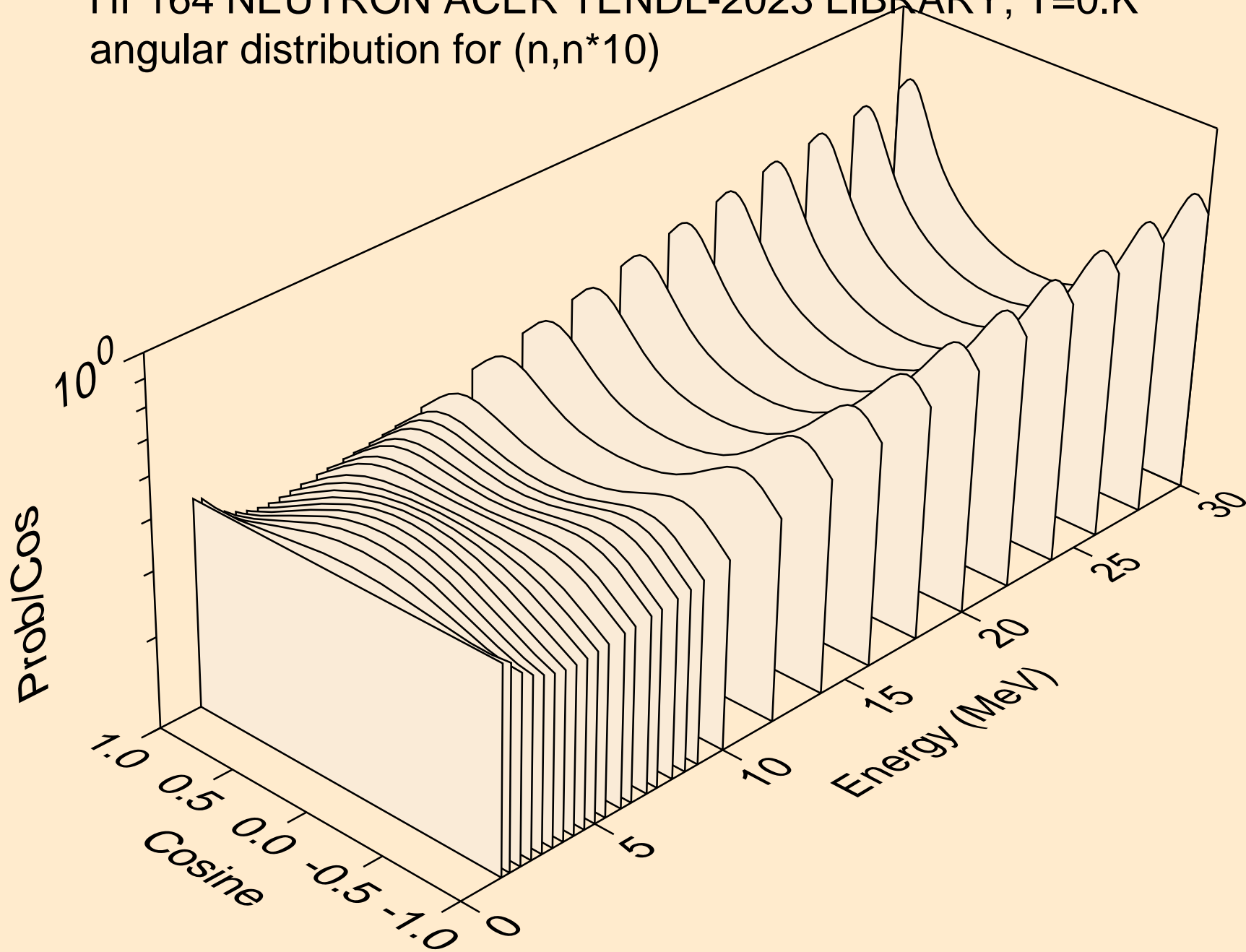
HF164 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*8)



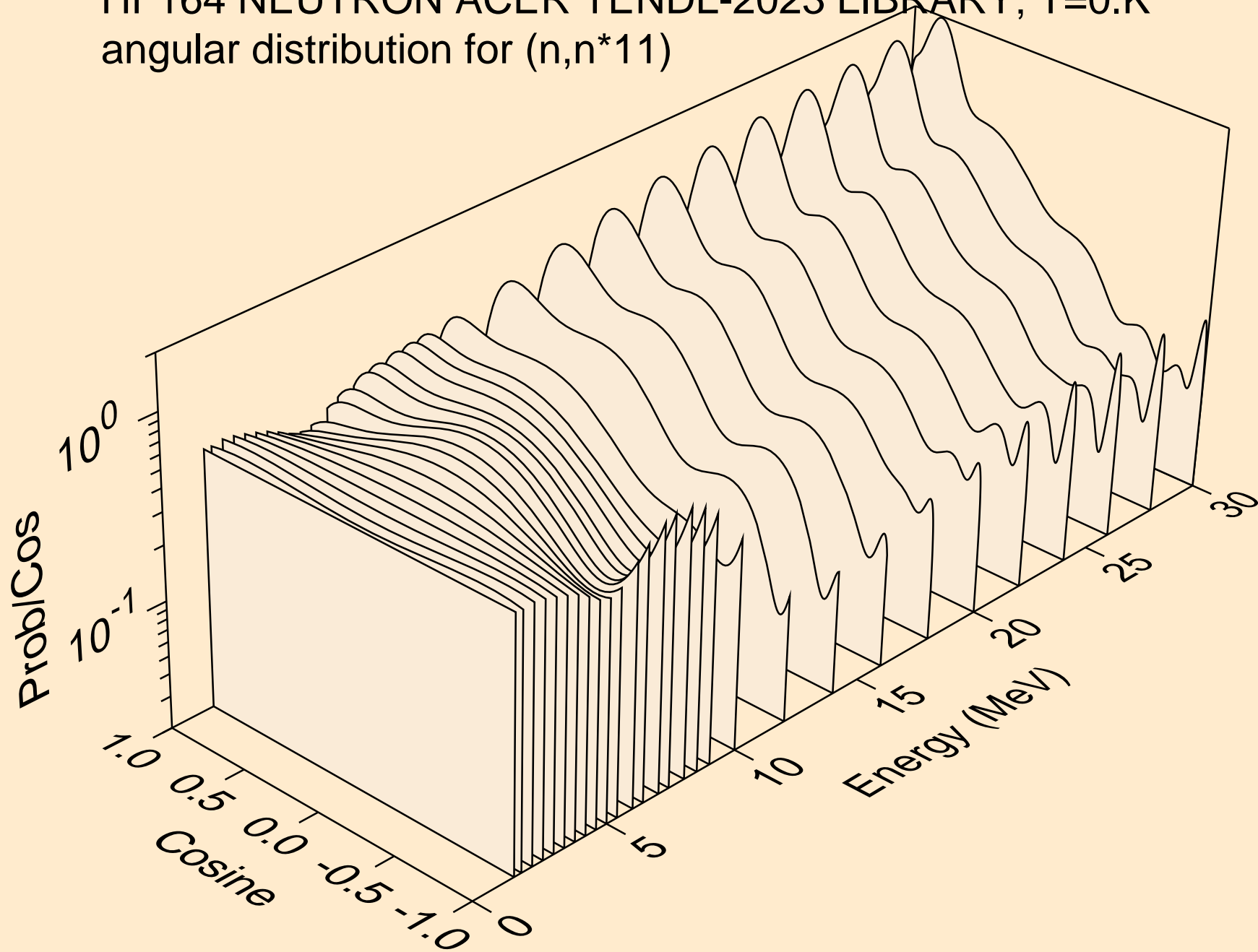
HF164 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*9)



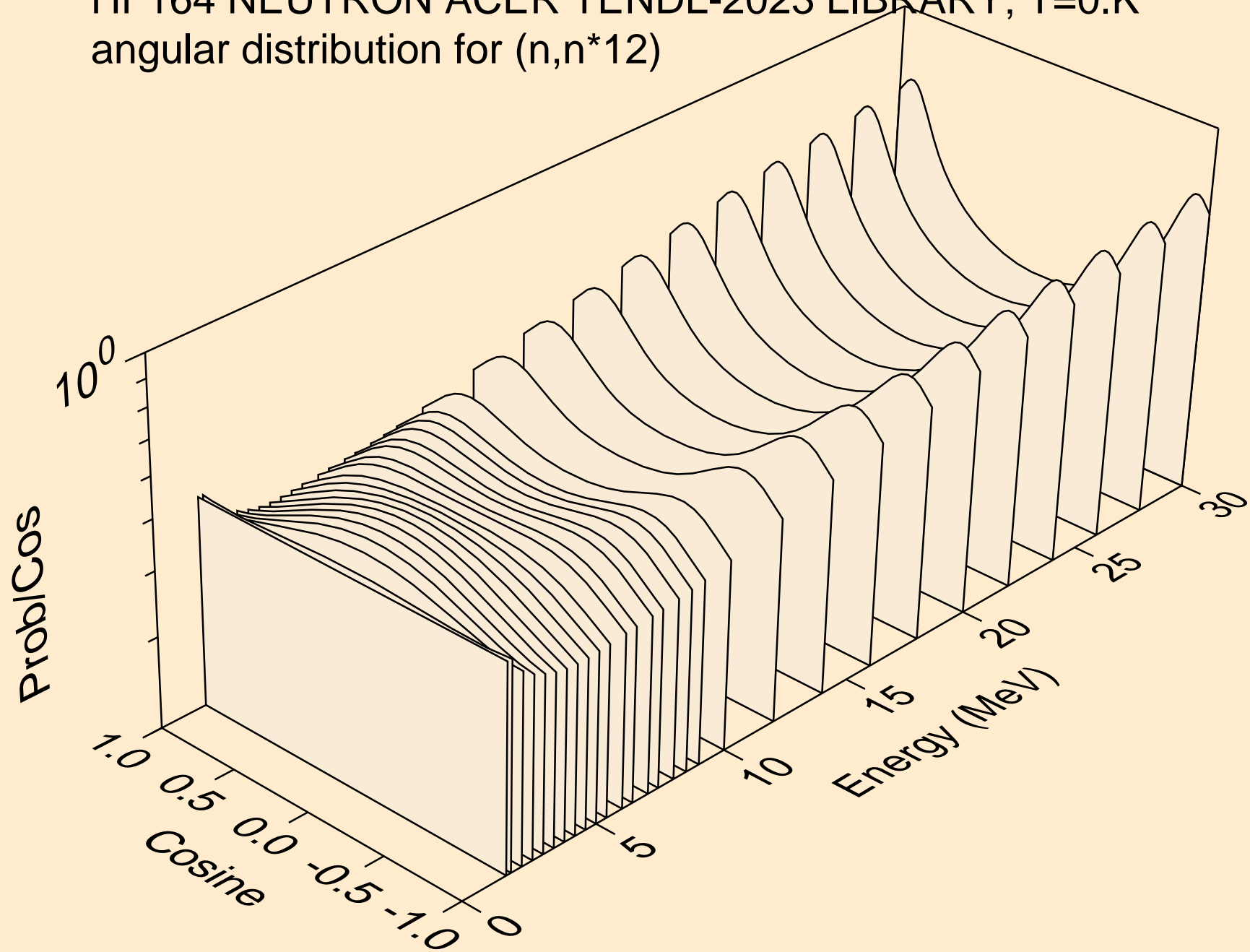
HF164 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*10)



HF164 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*11)

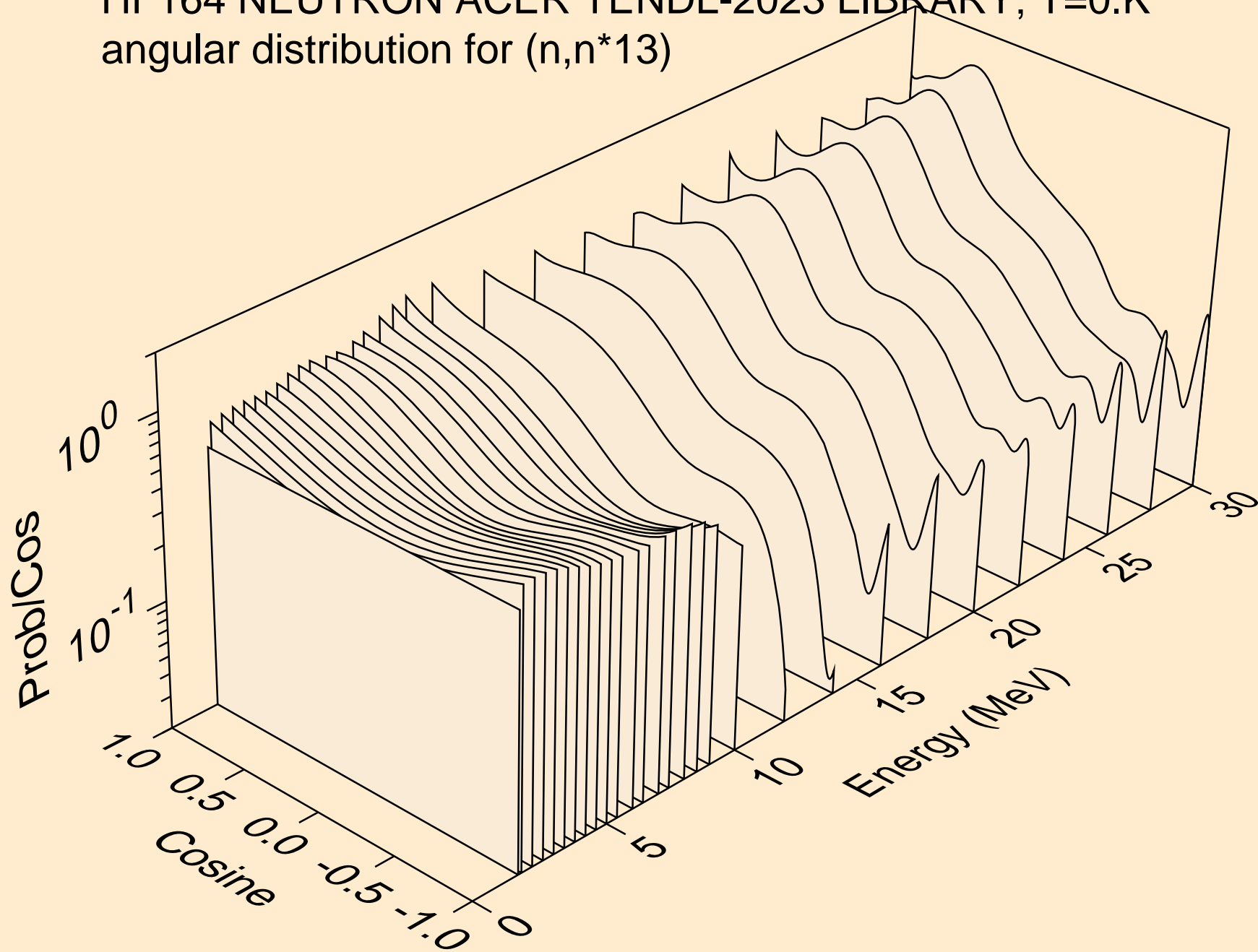


HF164 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*12)

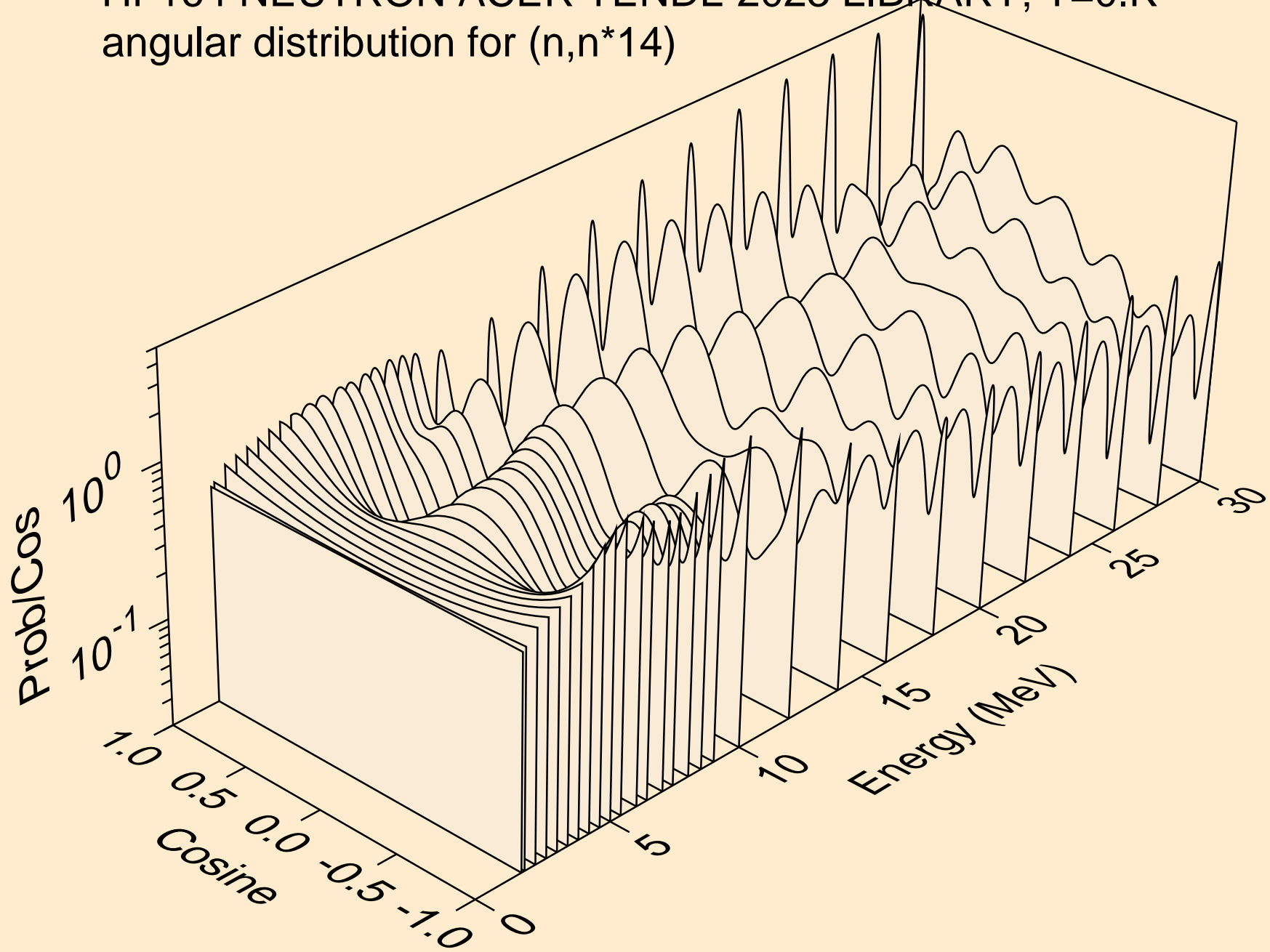




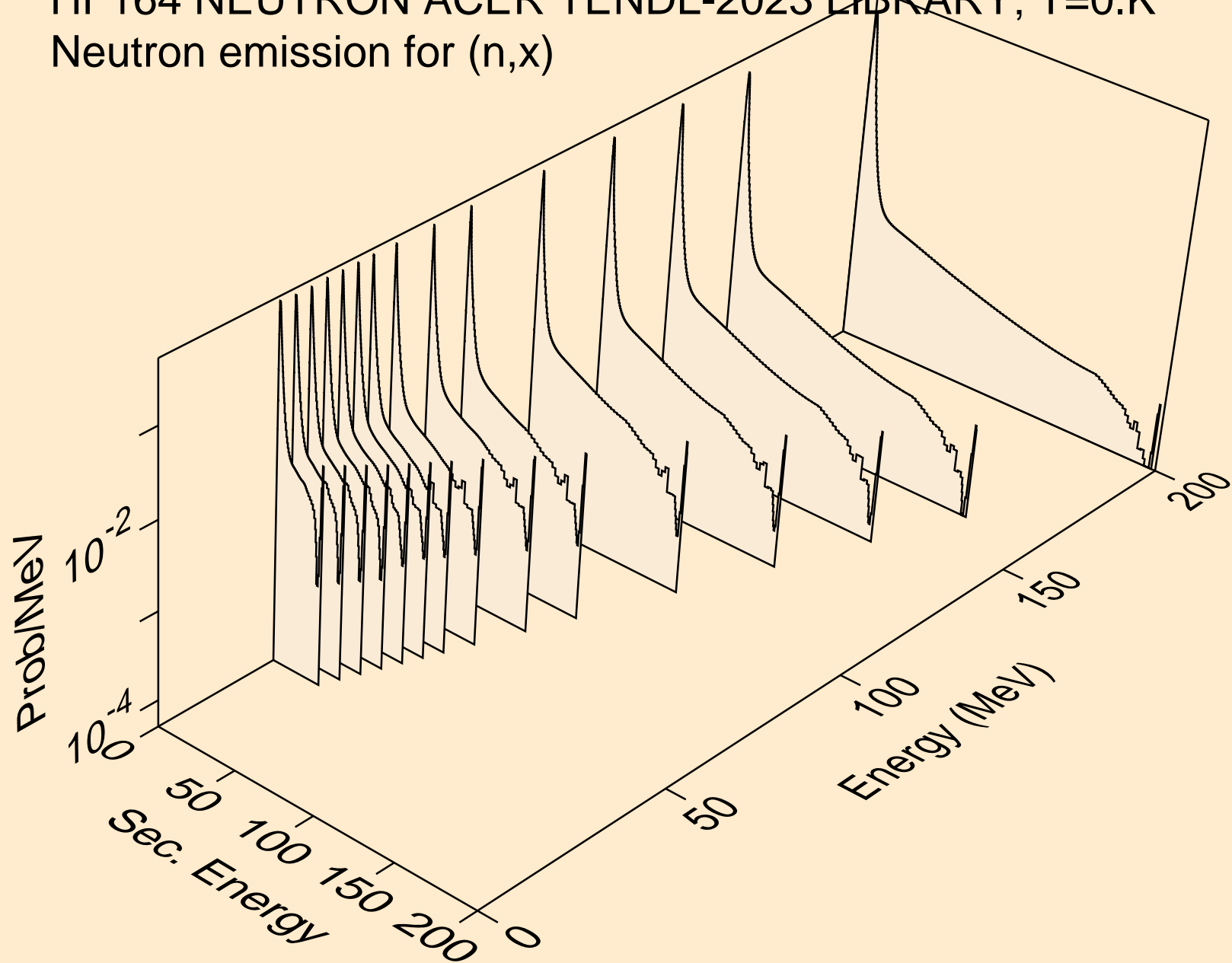
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angular distribution for (n,n\*13)



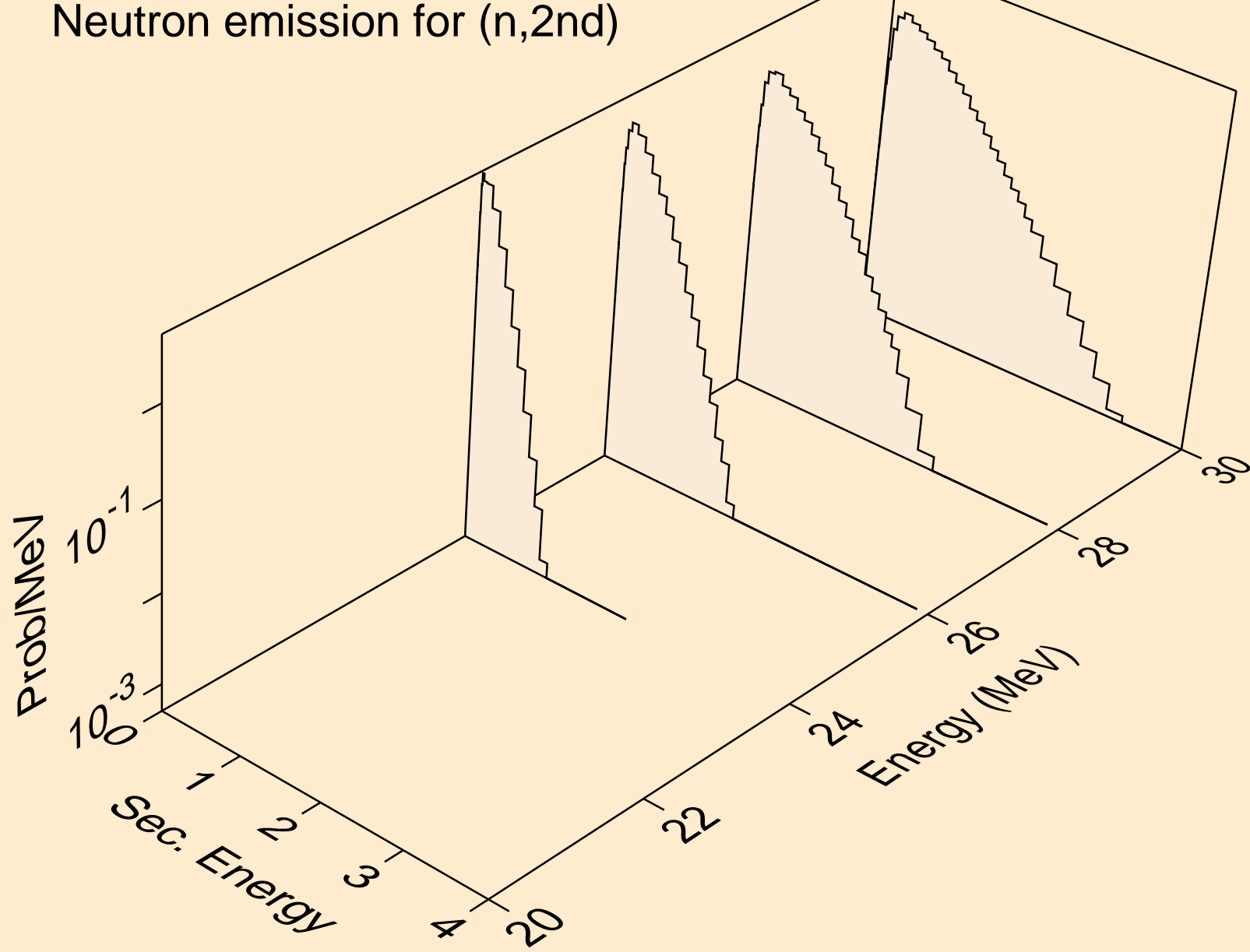
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angular distribution for (n,n\*14)



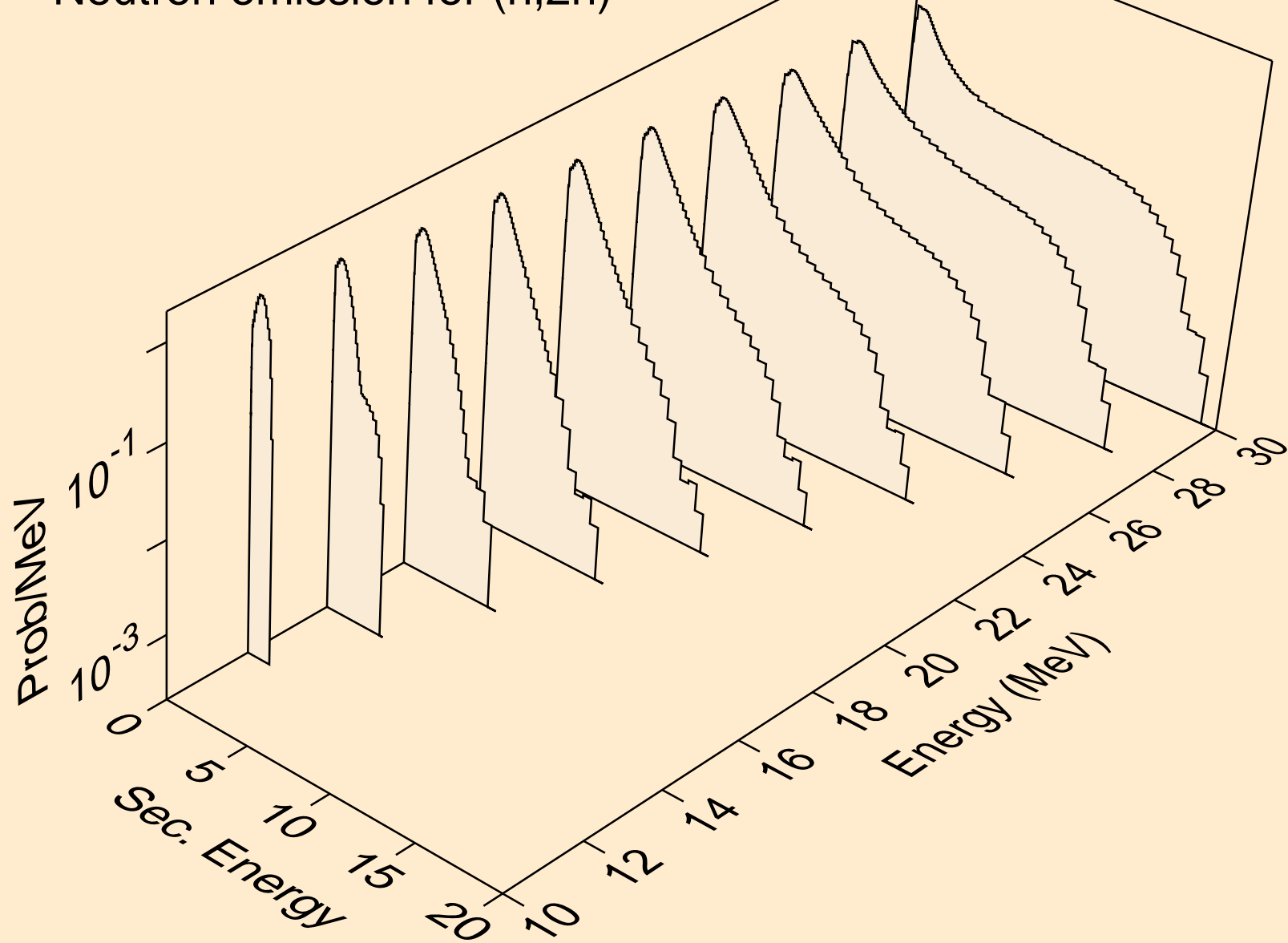
HF164 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,x)



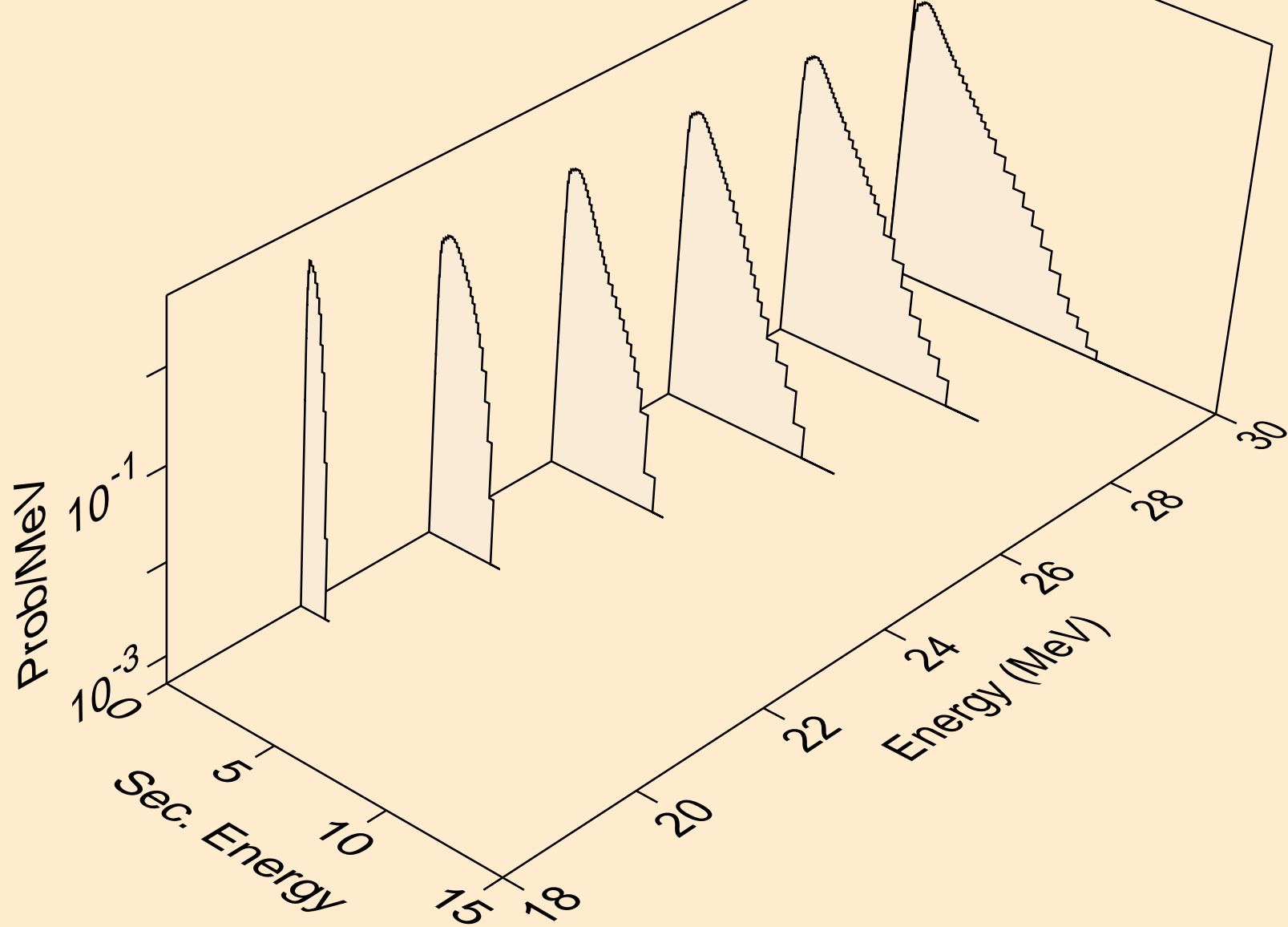
HF164 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,2nd)



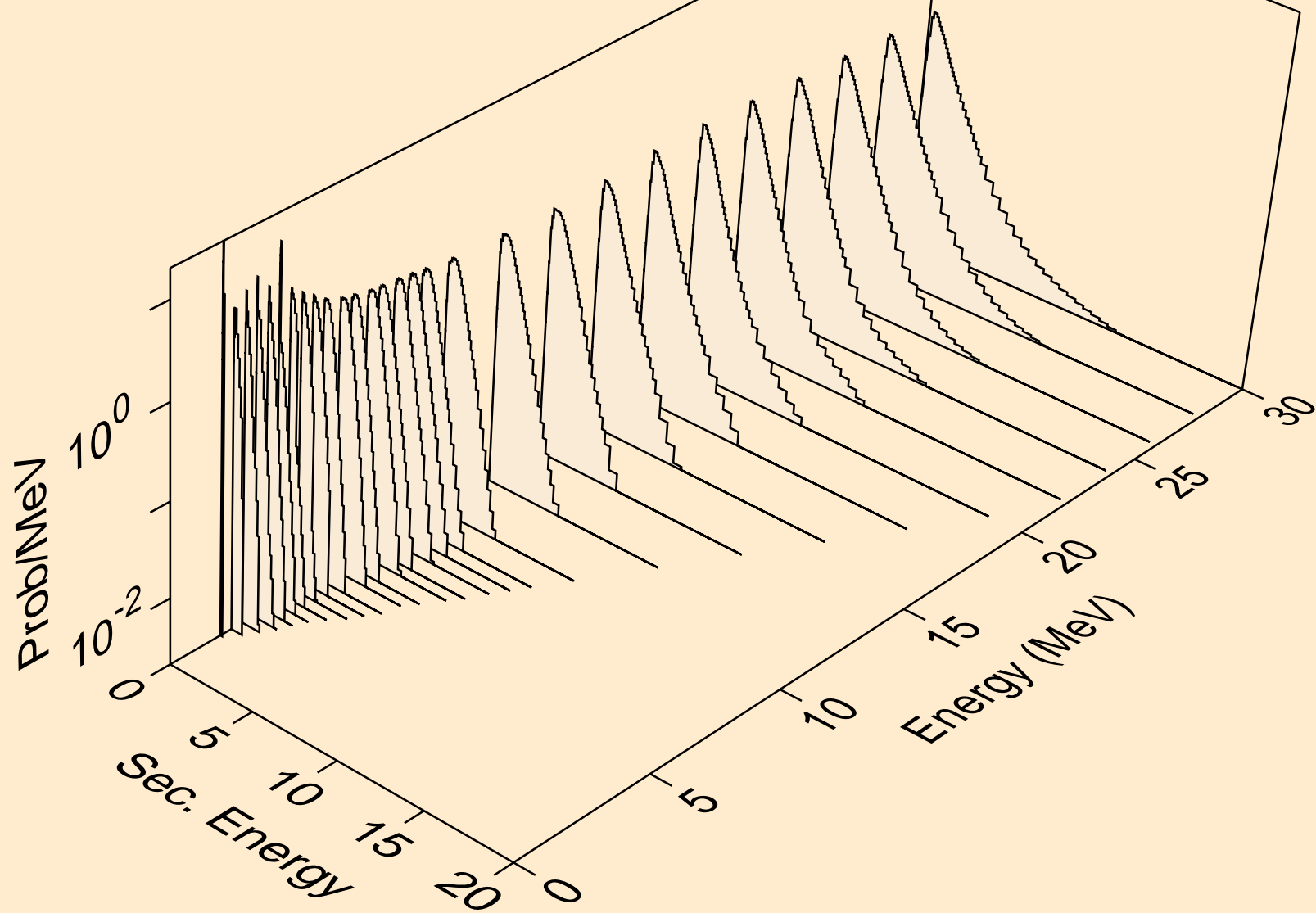
HF164 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,2n)



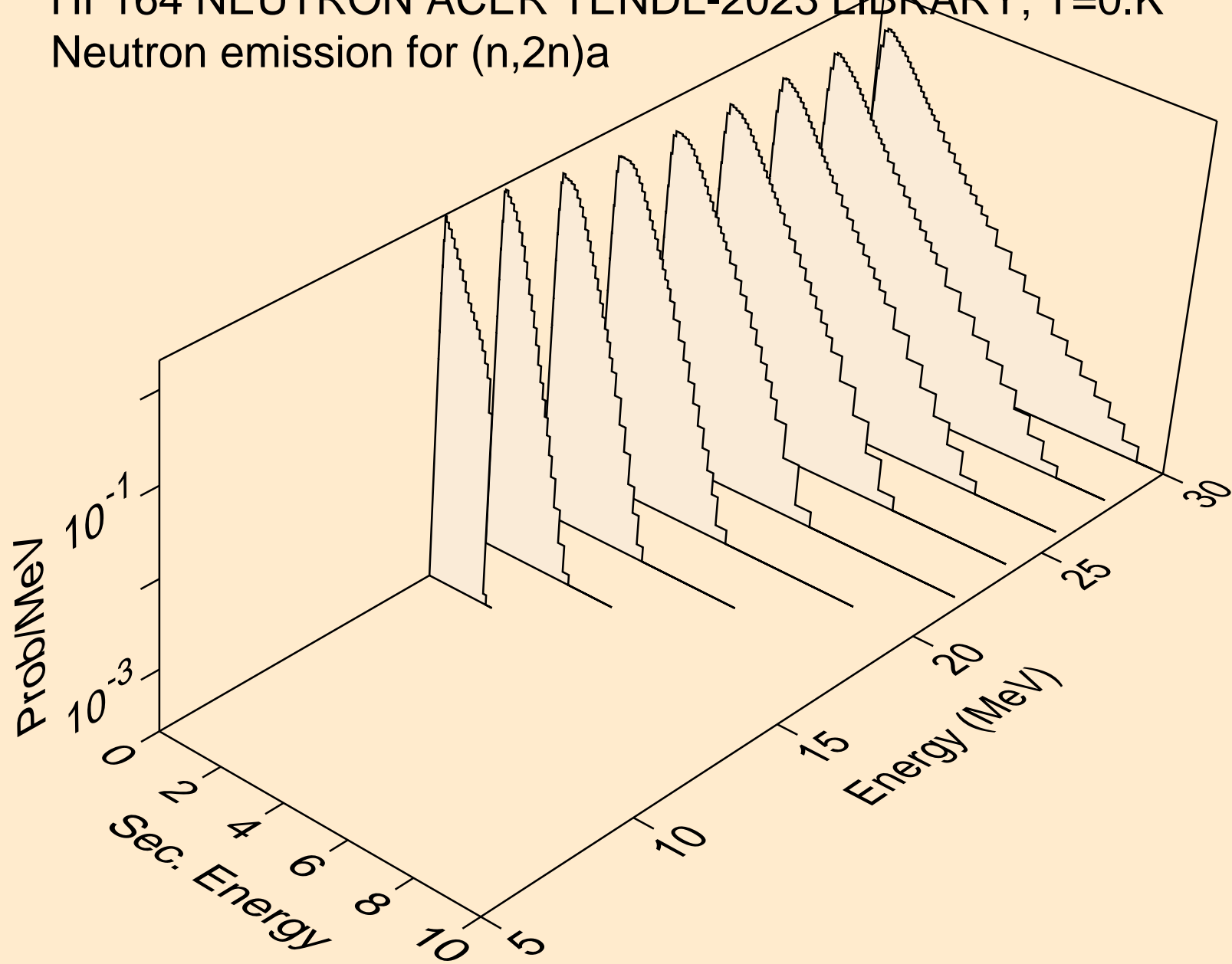
HF164 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,3n)



HF164 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,n\*)a

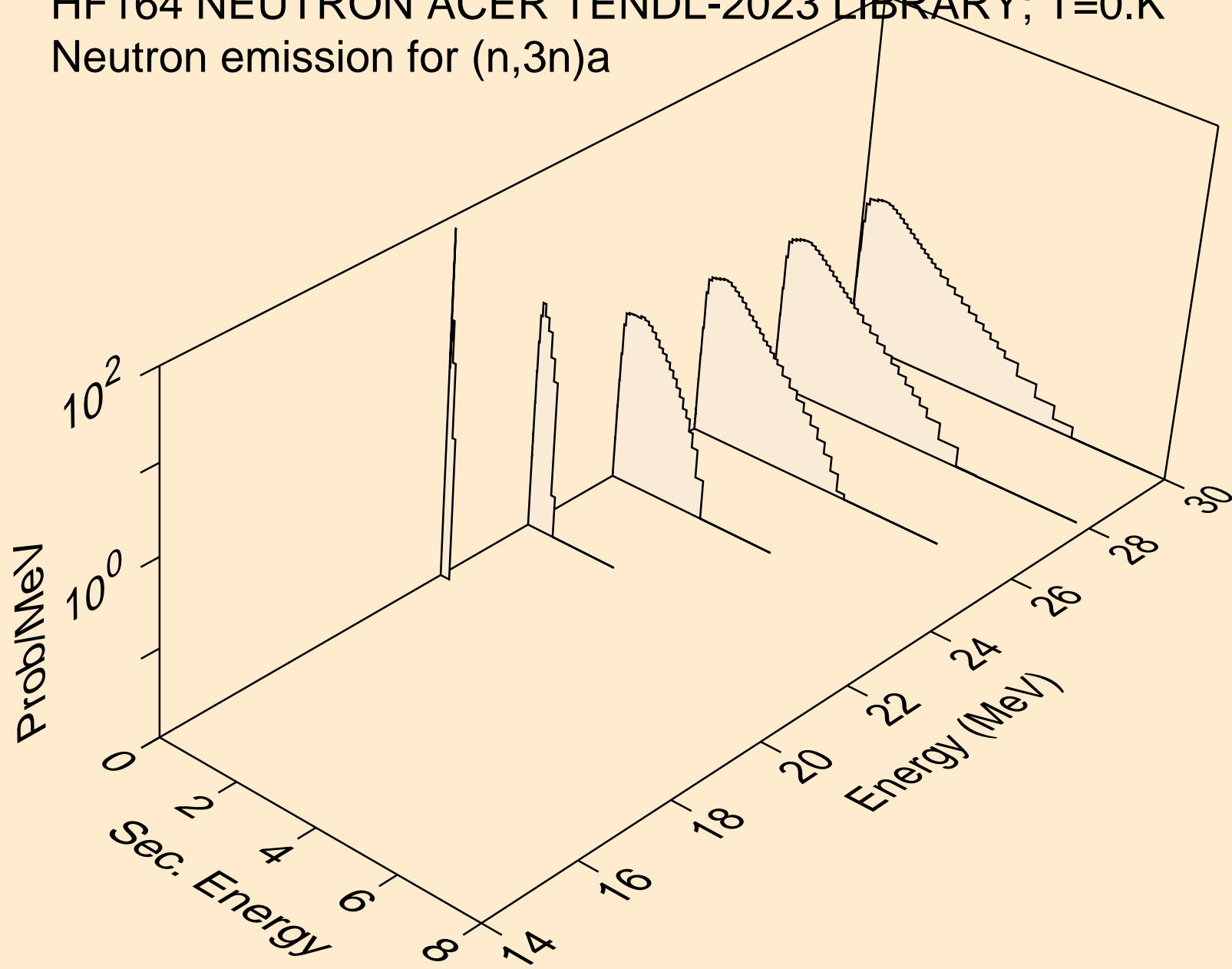


HF164 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,2n)a

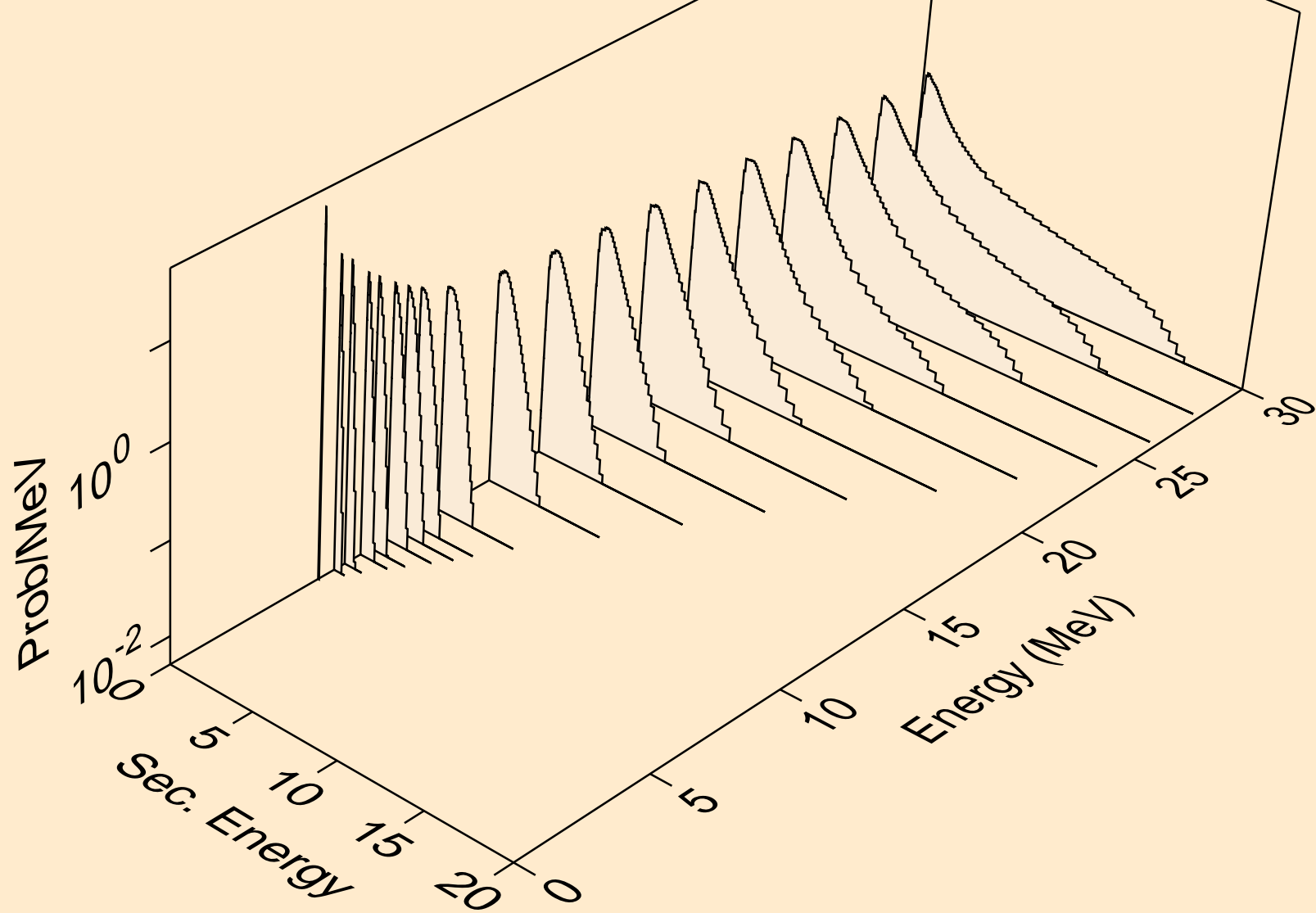




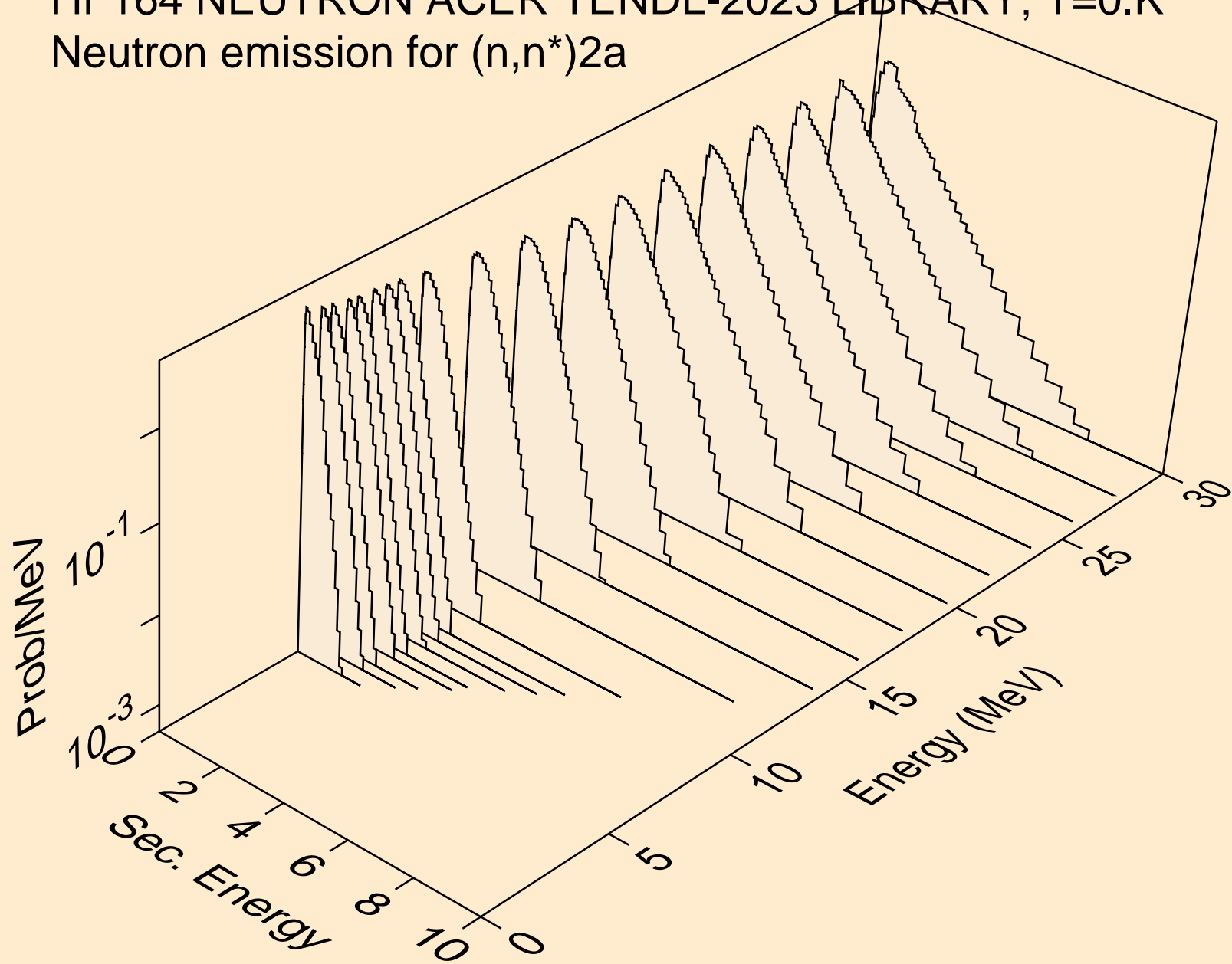
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Neutron emission for (n,3n)a



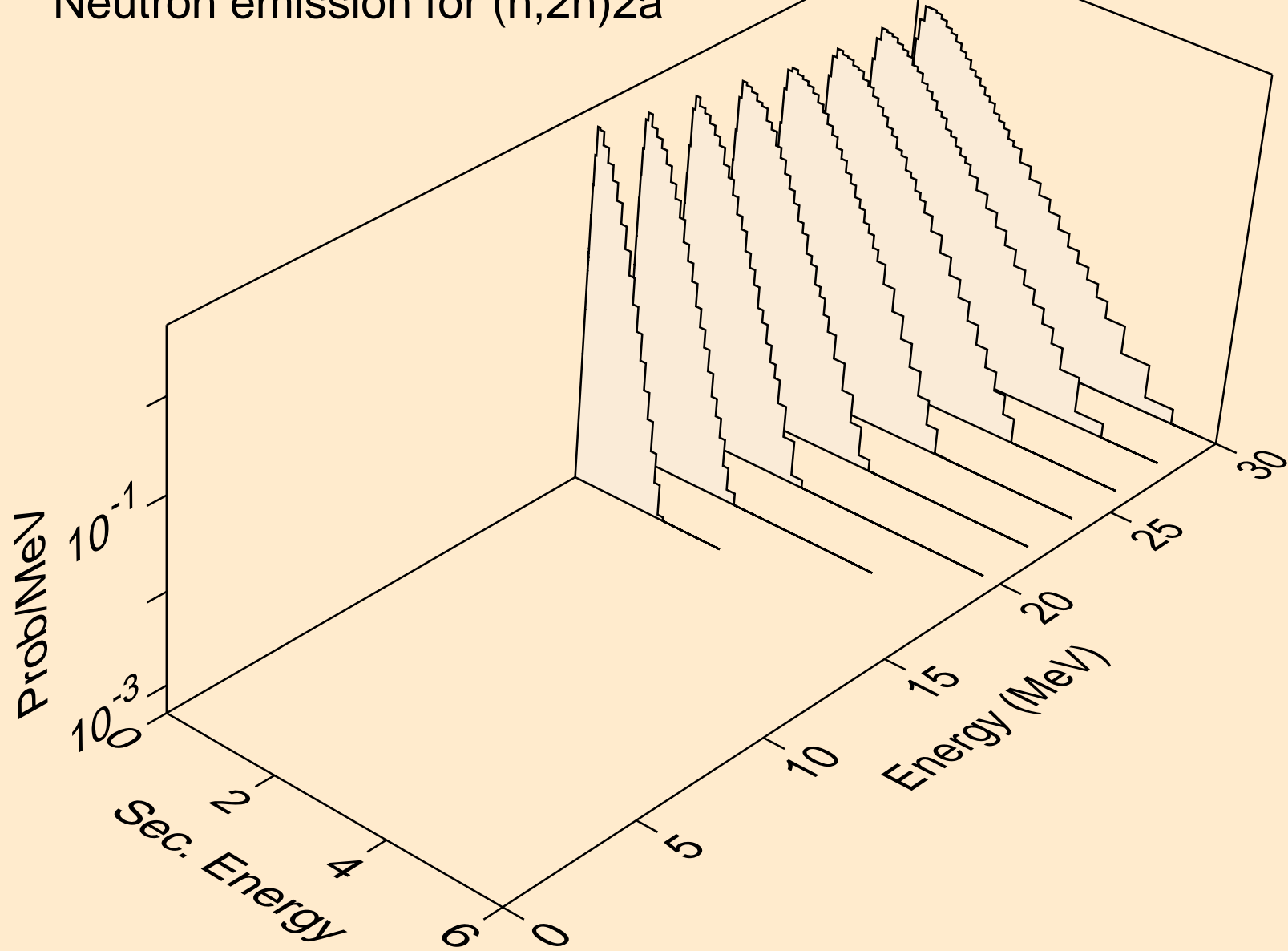
HF164 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,n\*)p



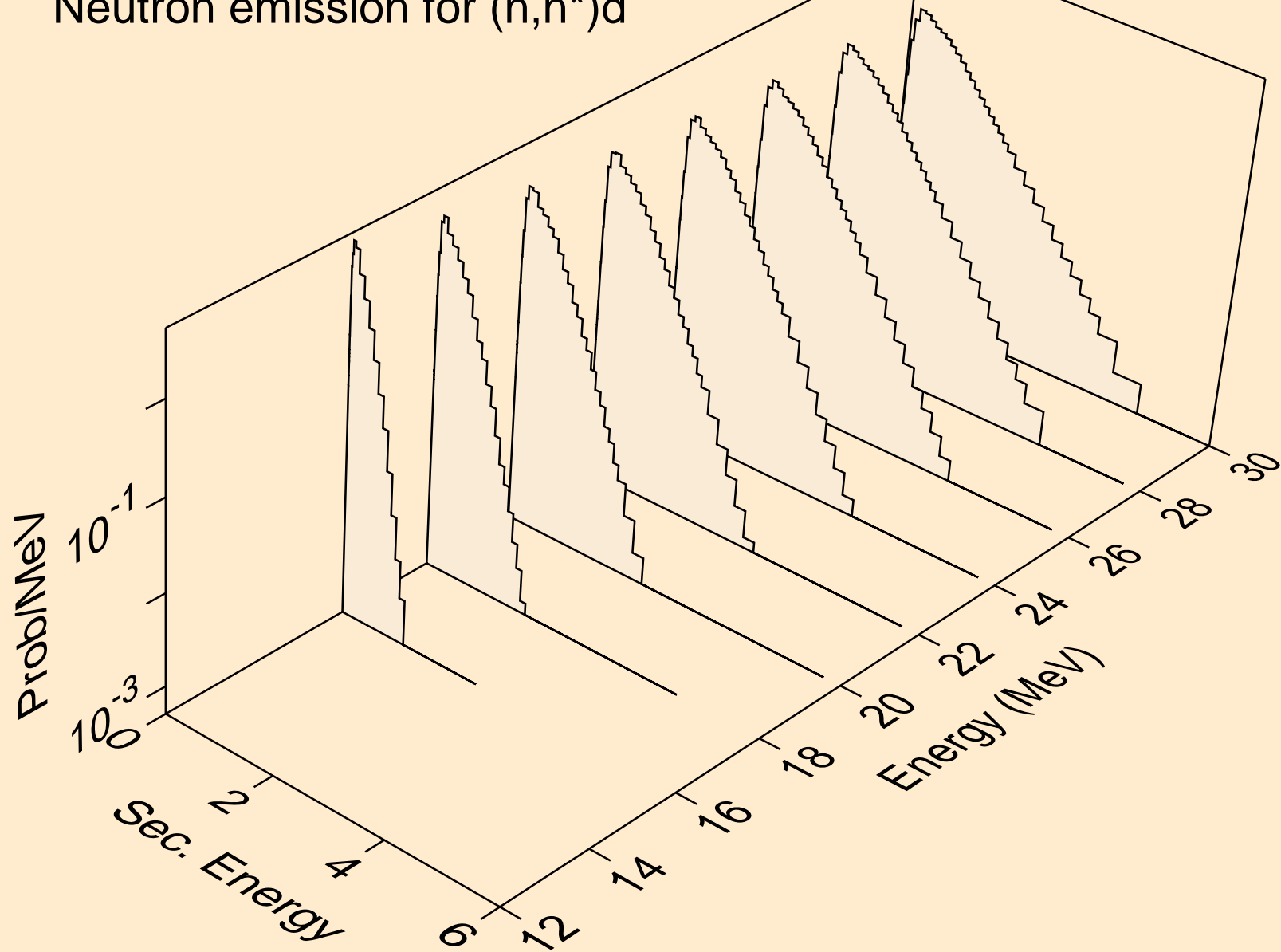
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Neutron emission for (n,n\*)2a



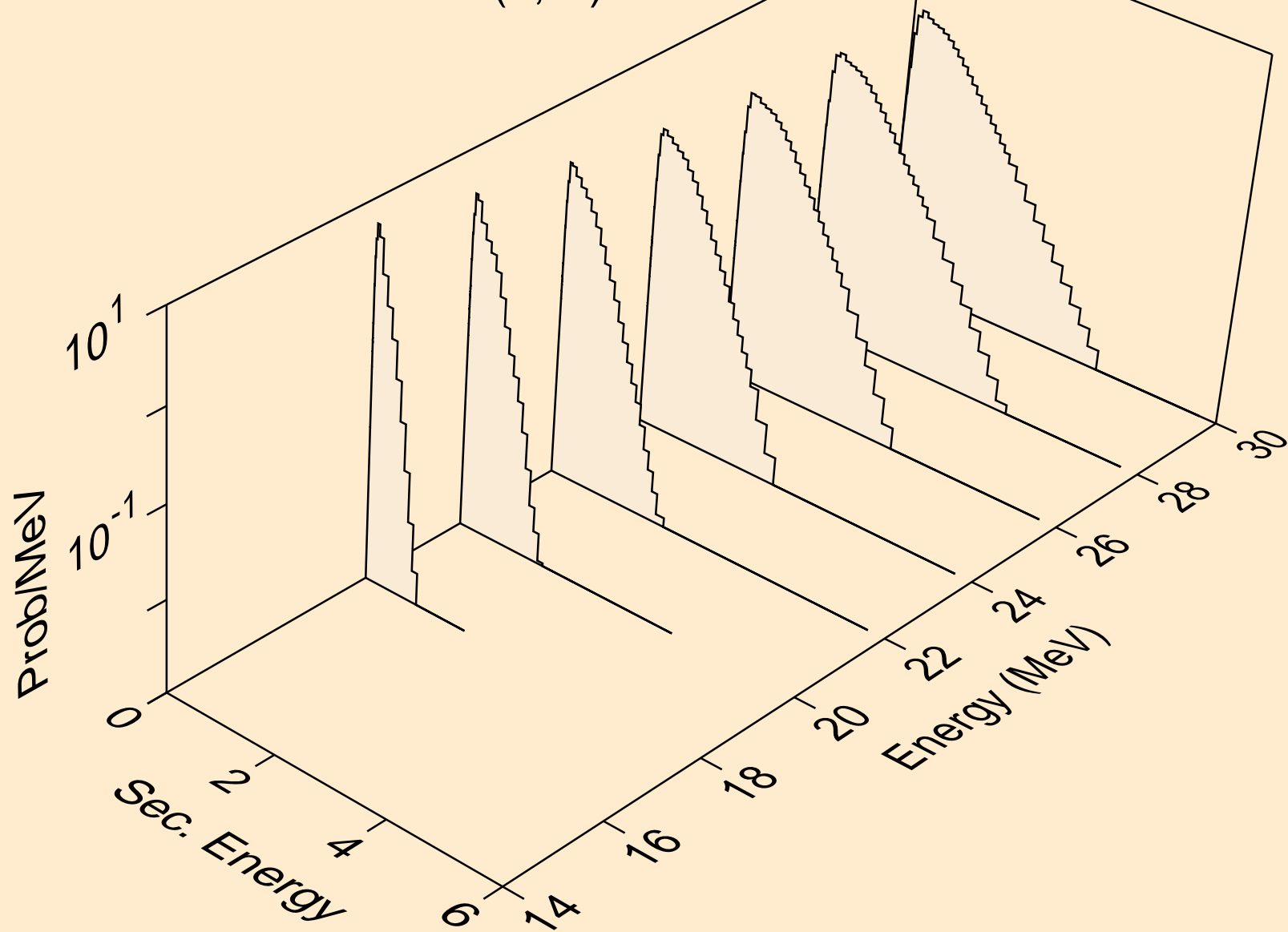
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Neutron emission for (n,2n)2a



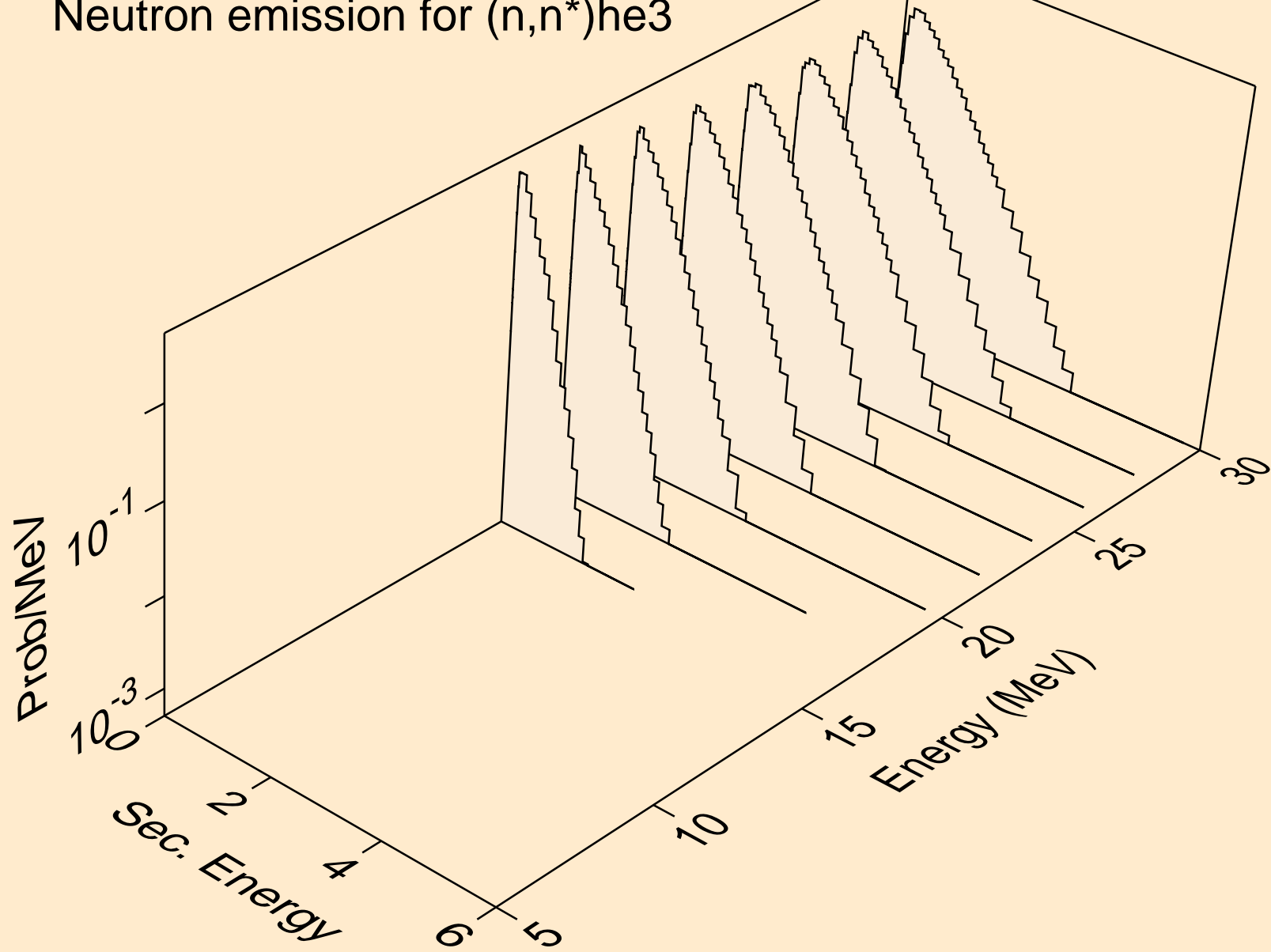
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Neutron emission for (n,n\*)d



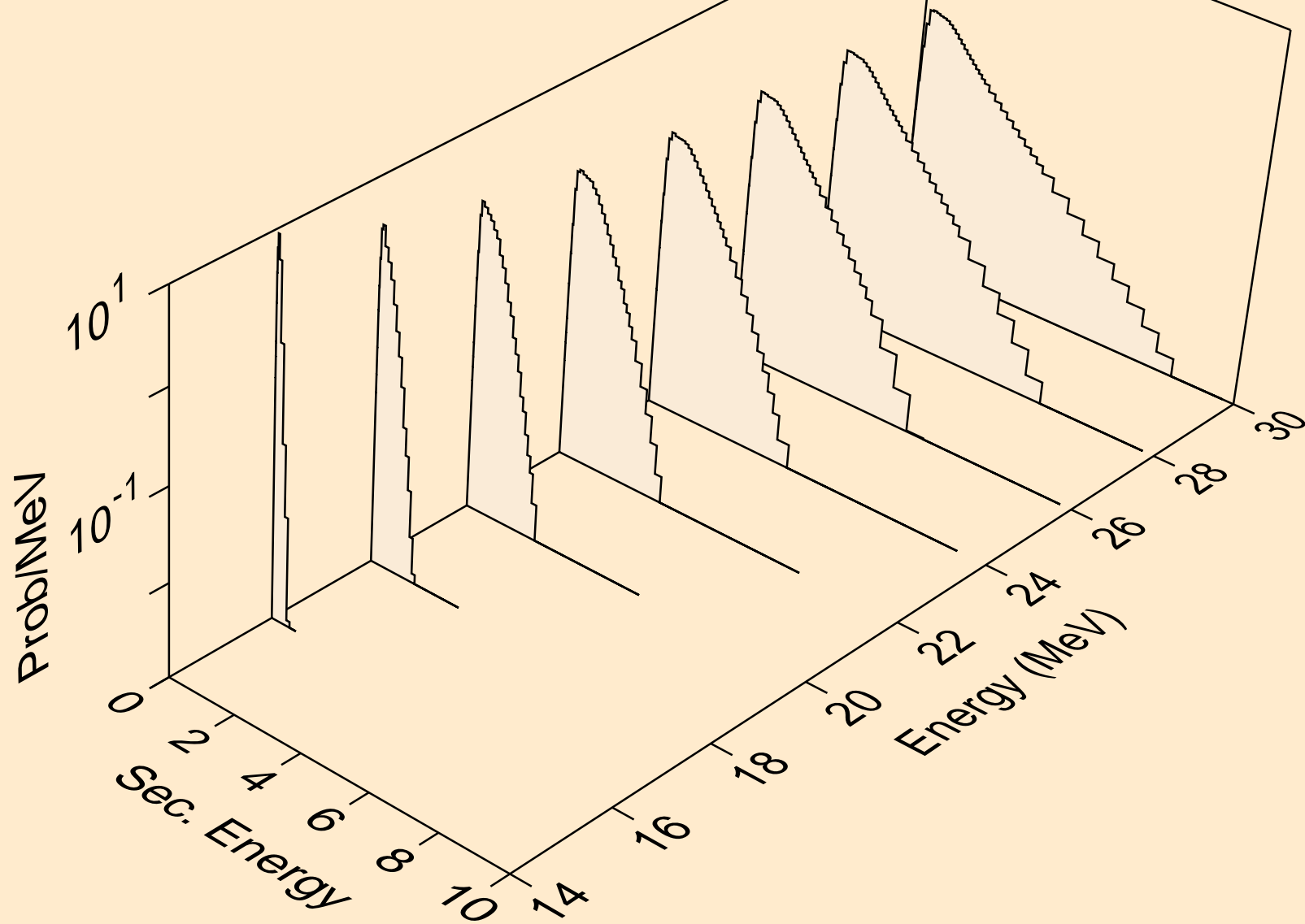
HF164 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,n\*)t



HF164 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,n\*)he3

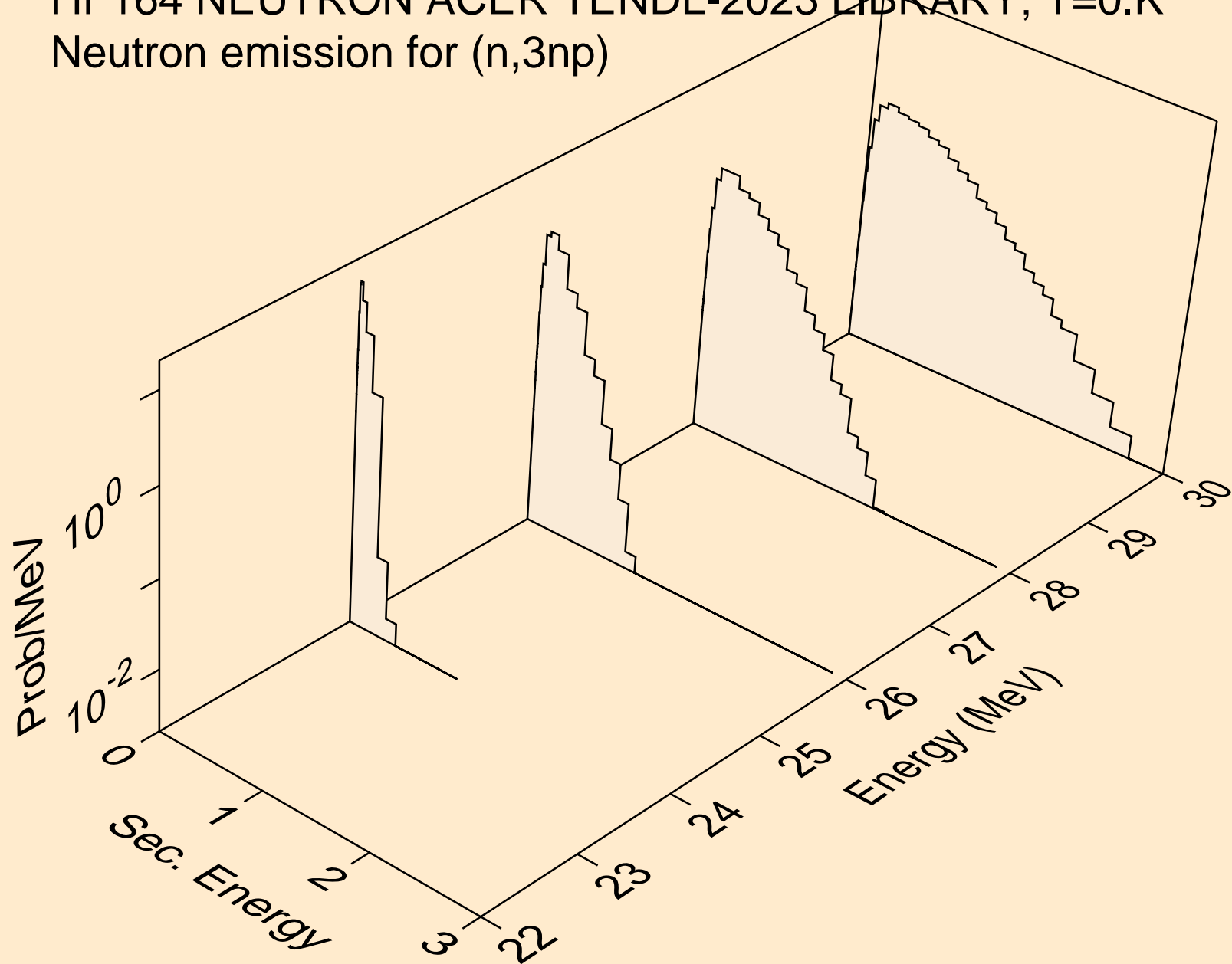


HF164 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,2np)

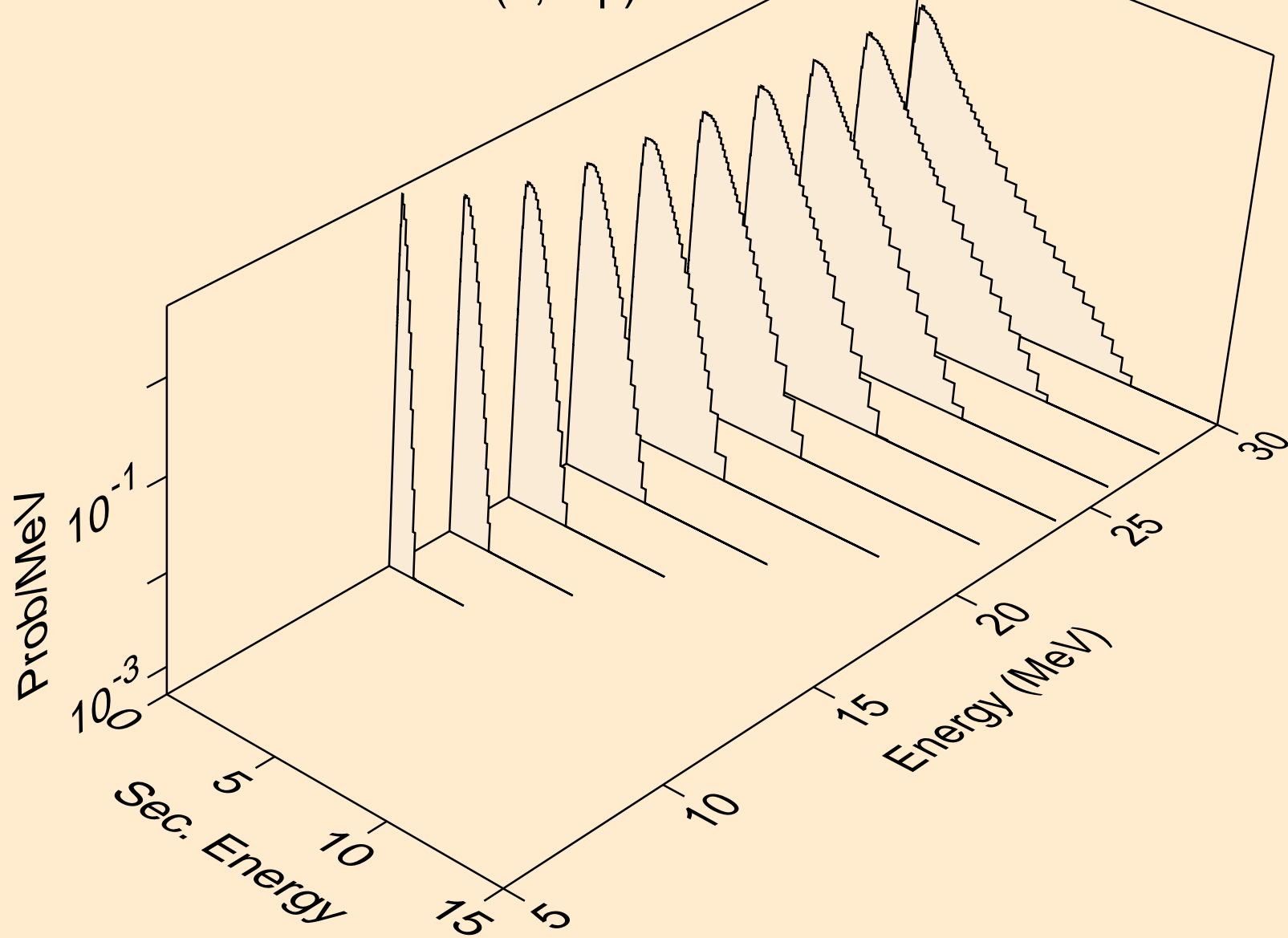




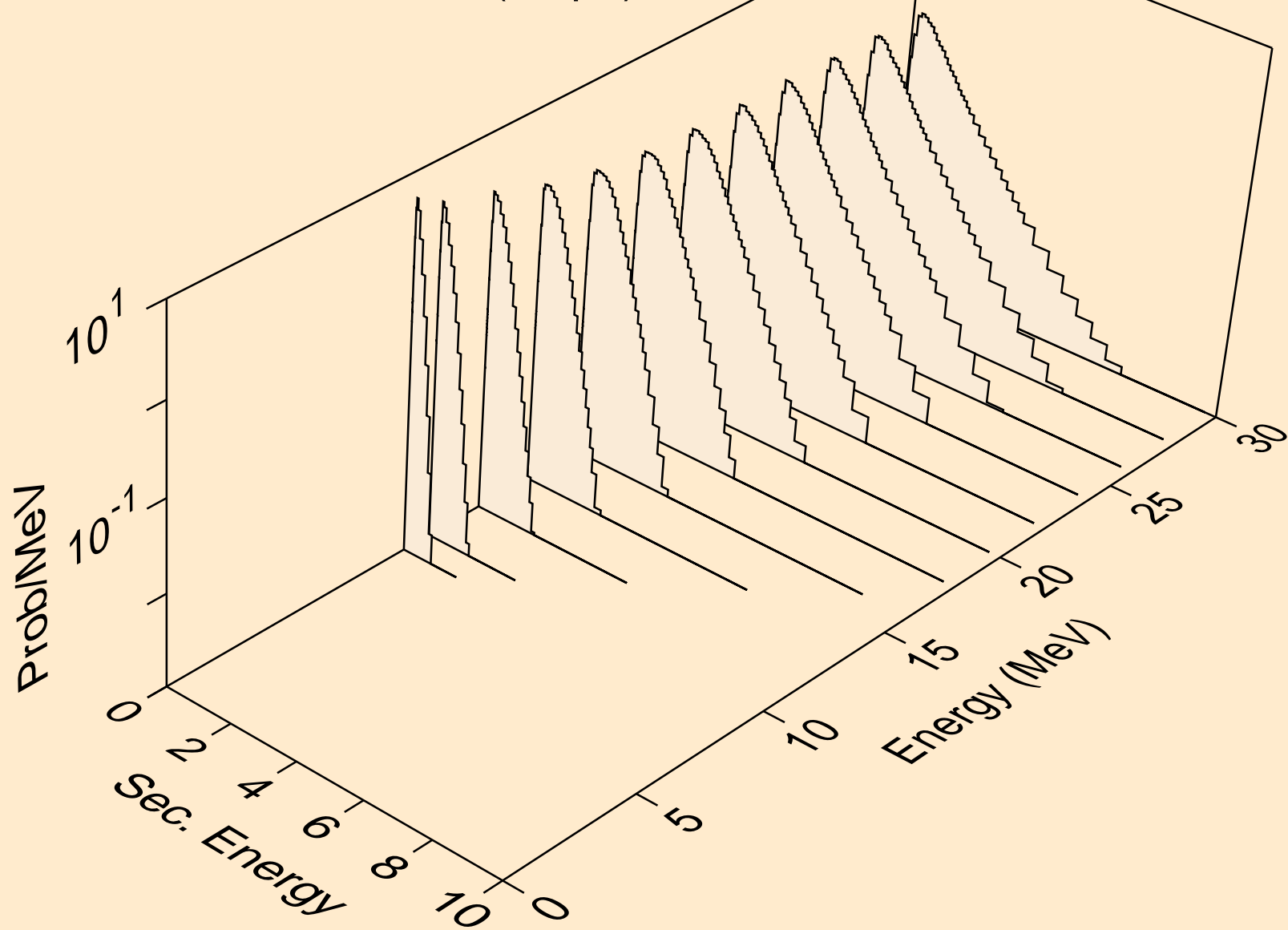
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Neutron emission for (n,3np)



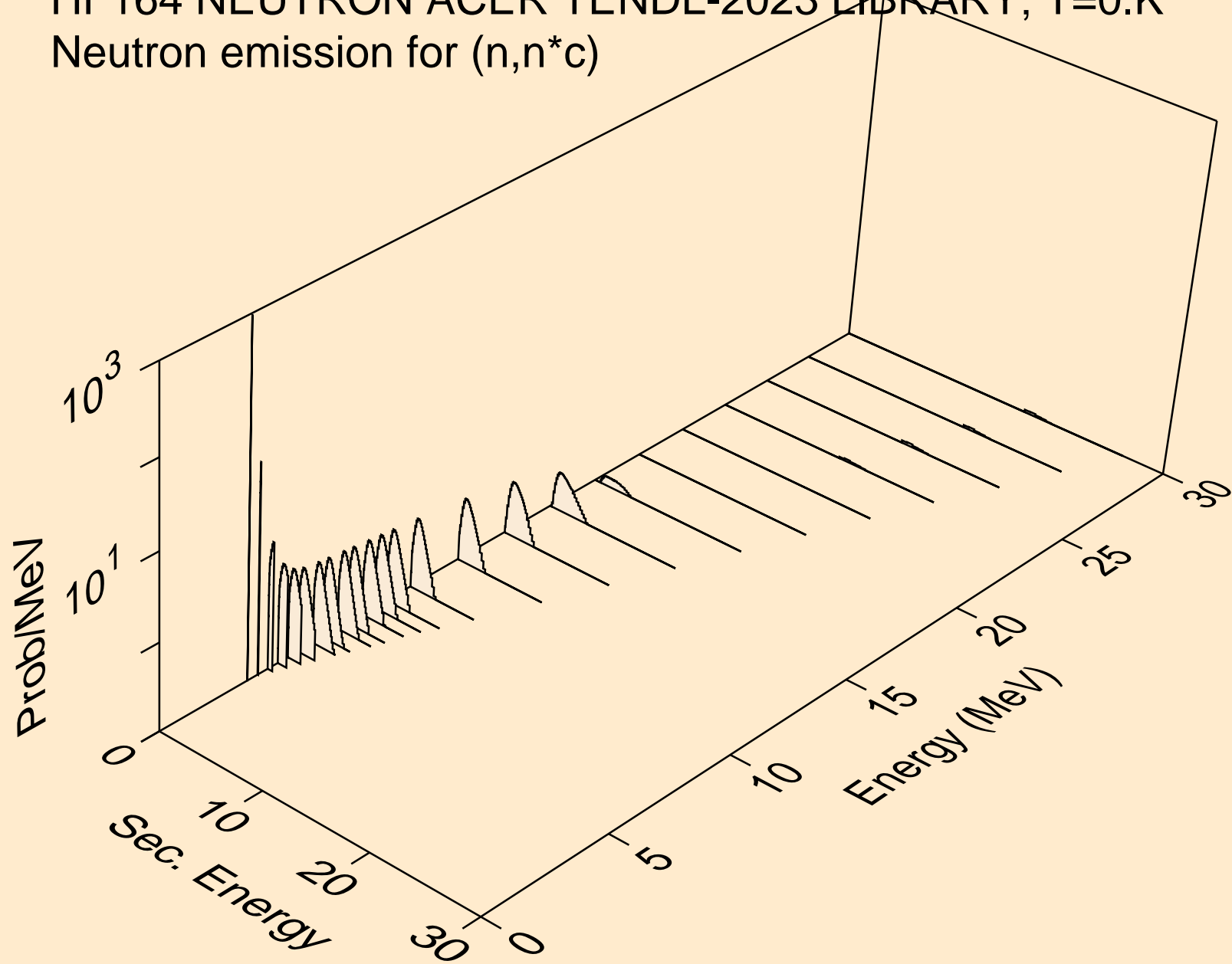
HF164 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,n2p)



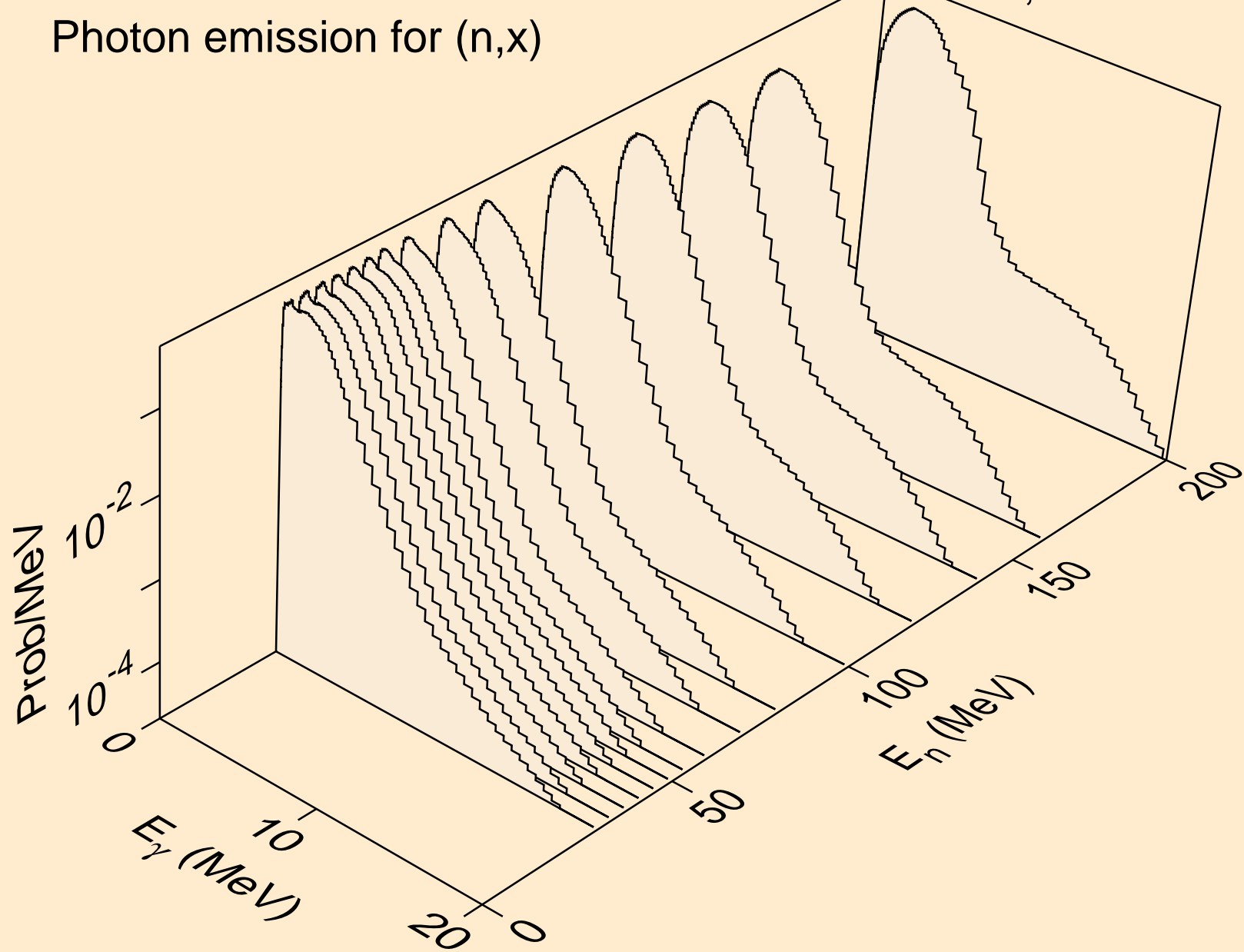
HF164 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,npa)



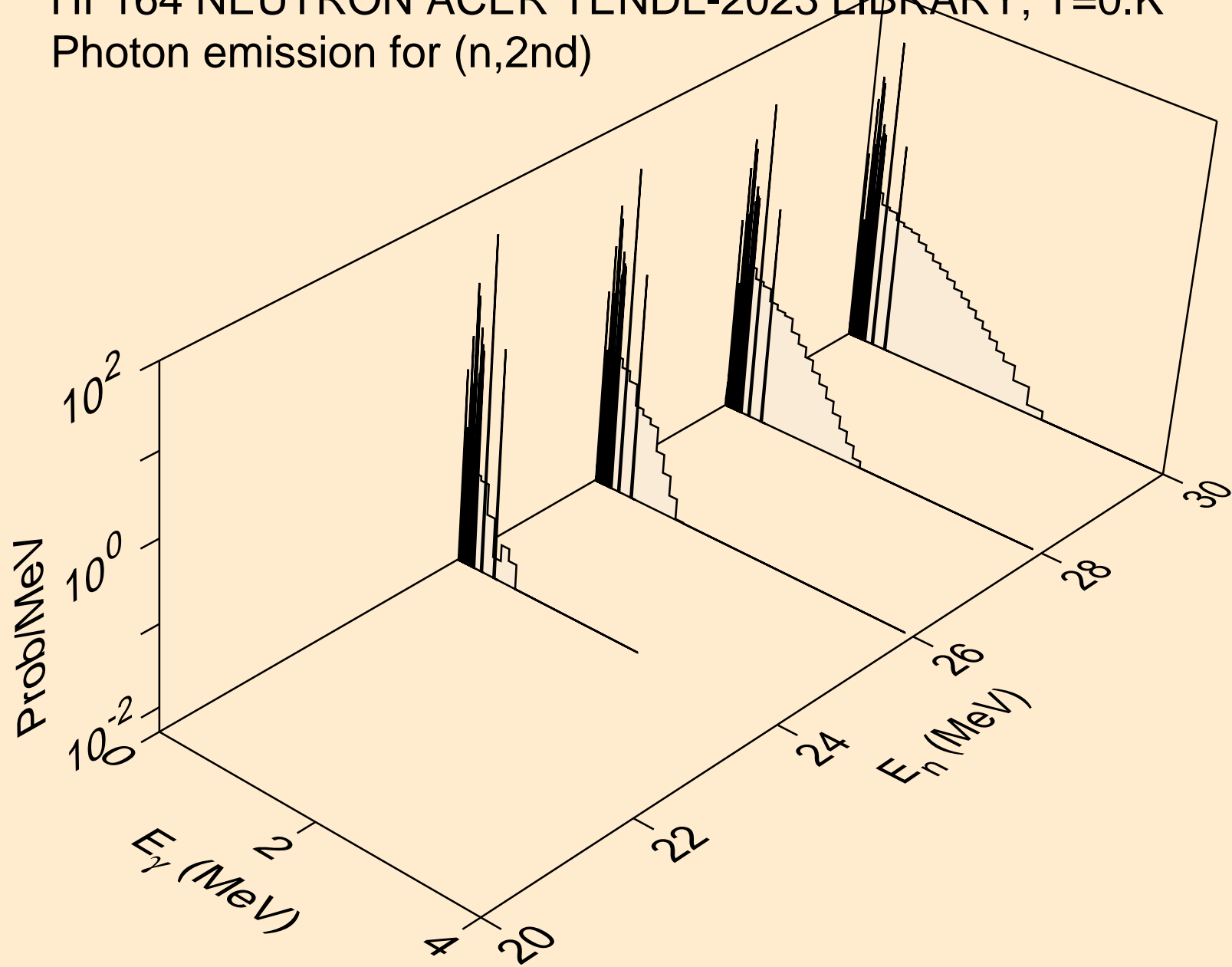
HF164 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,n\*c)



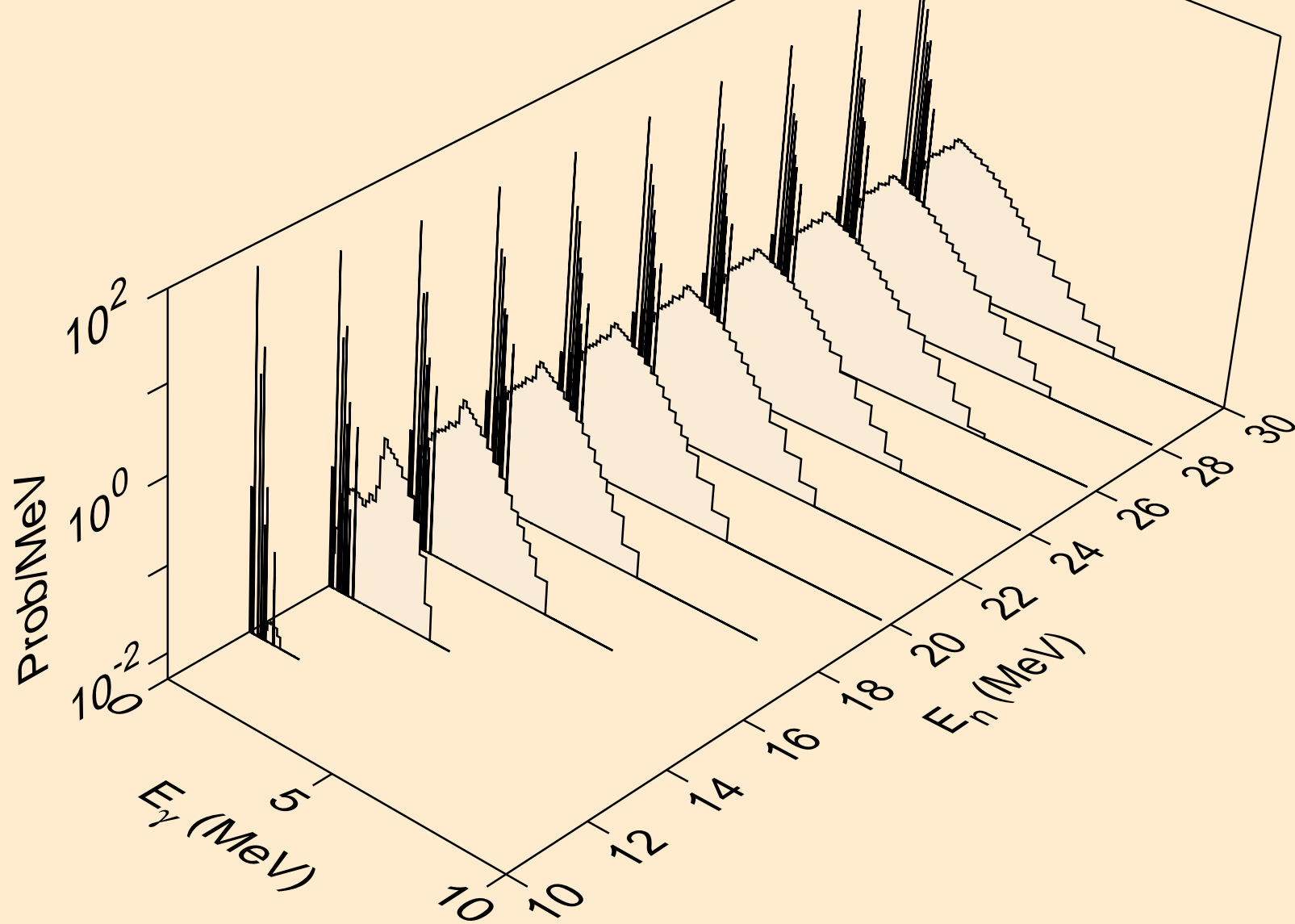
HF164 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,x)



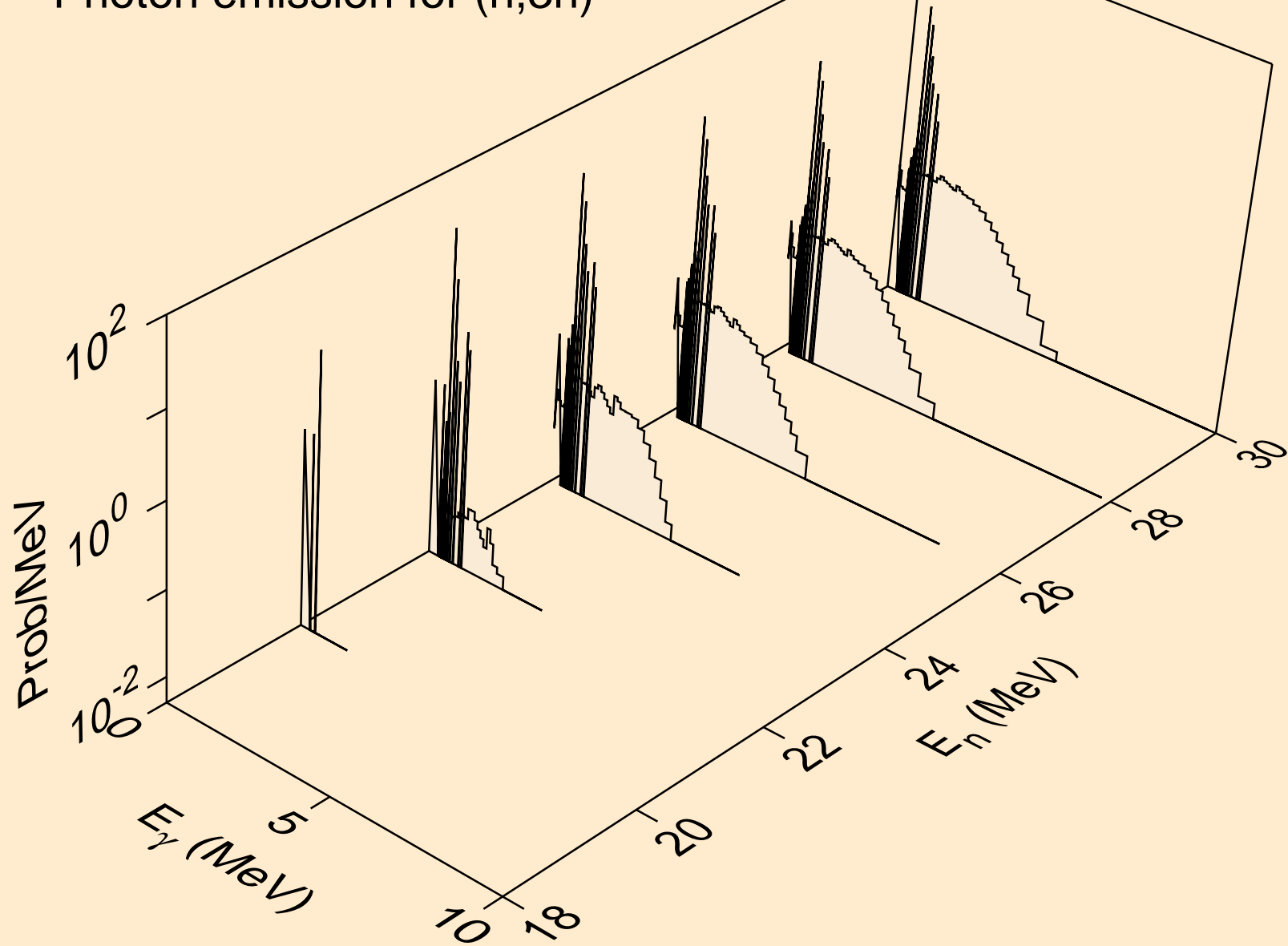
HF164 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2nd)



HF164 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2n)

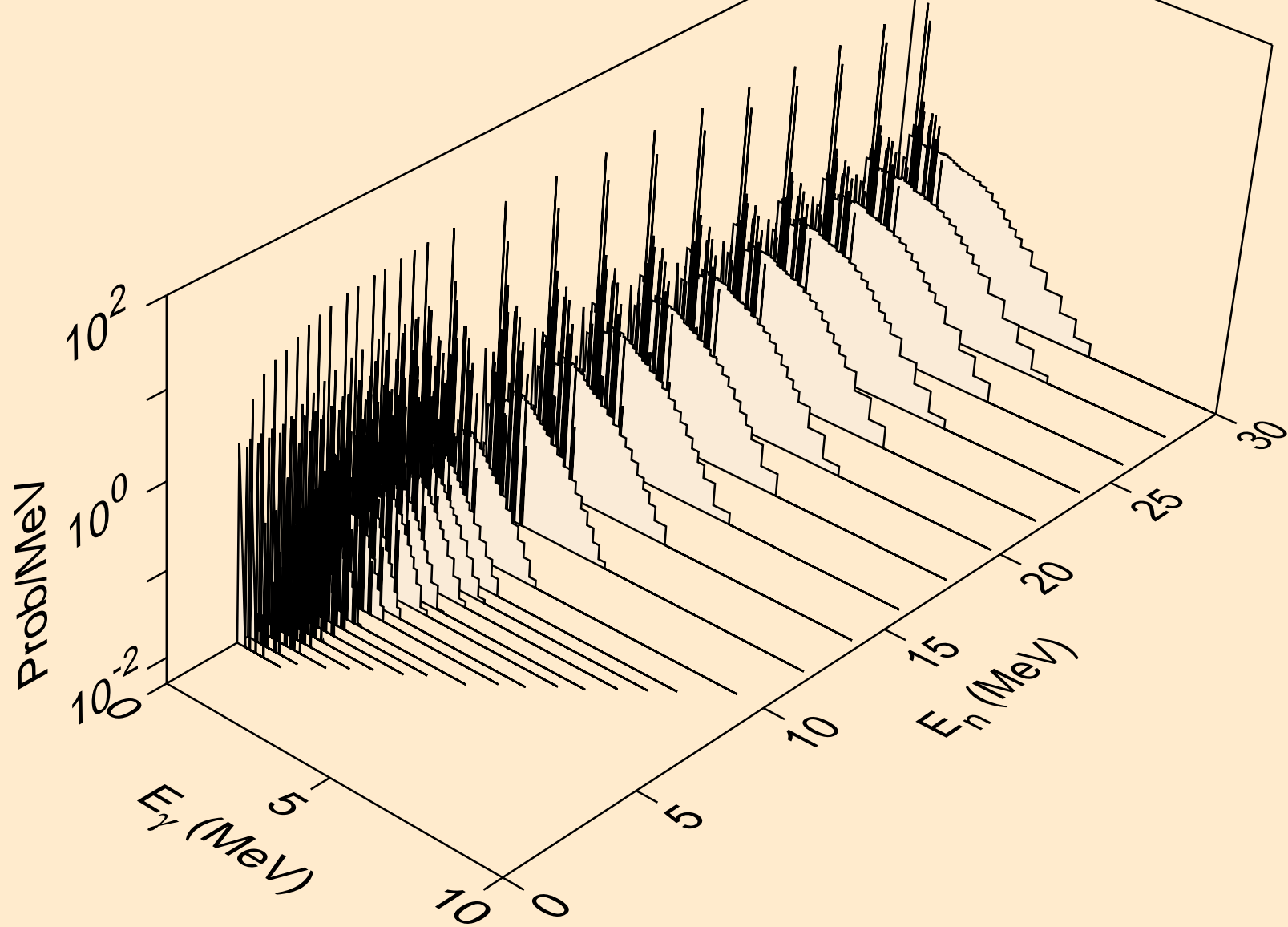


HF164 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,3n)

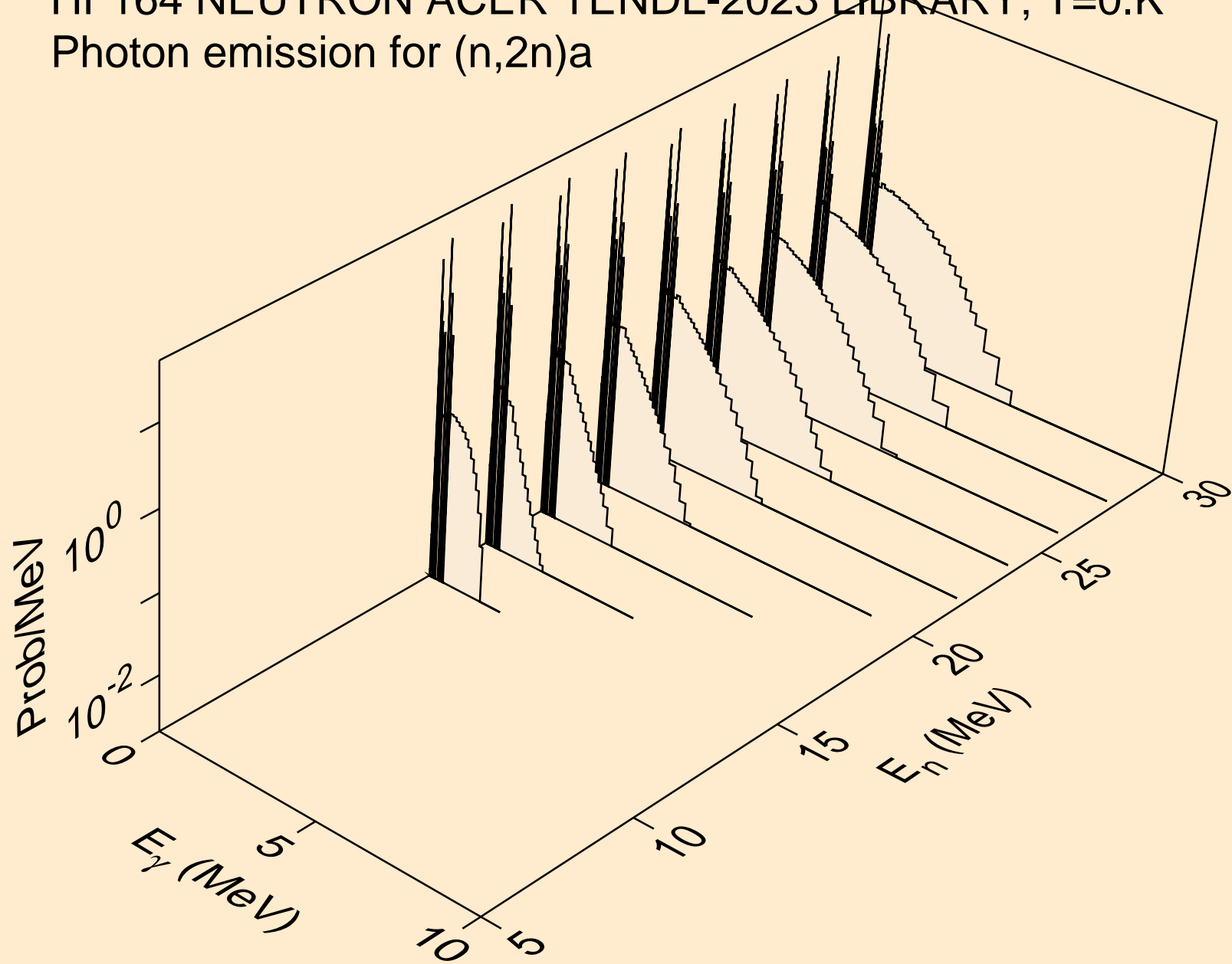




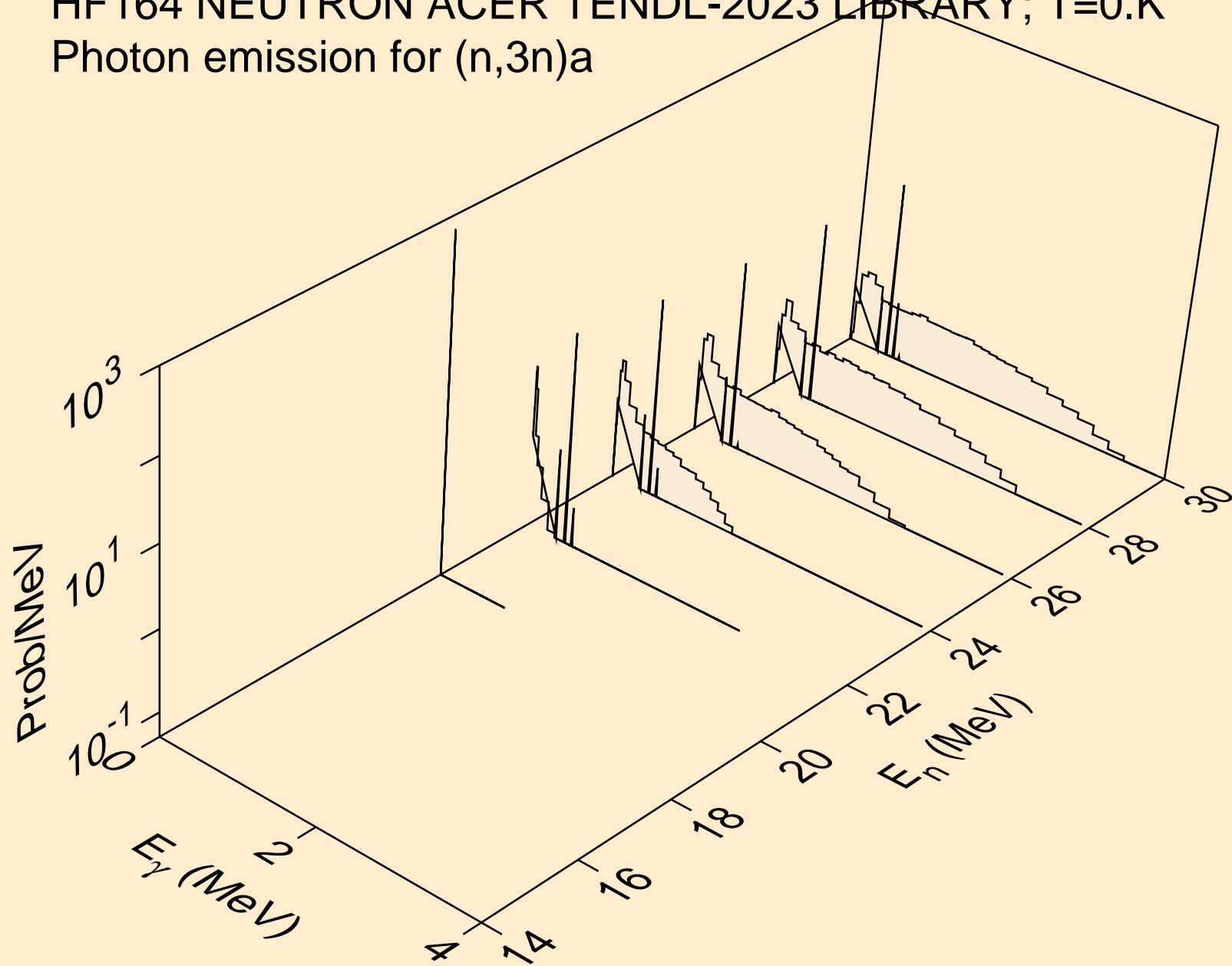
HF164 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)a



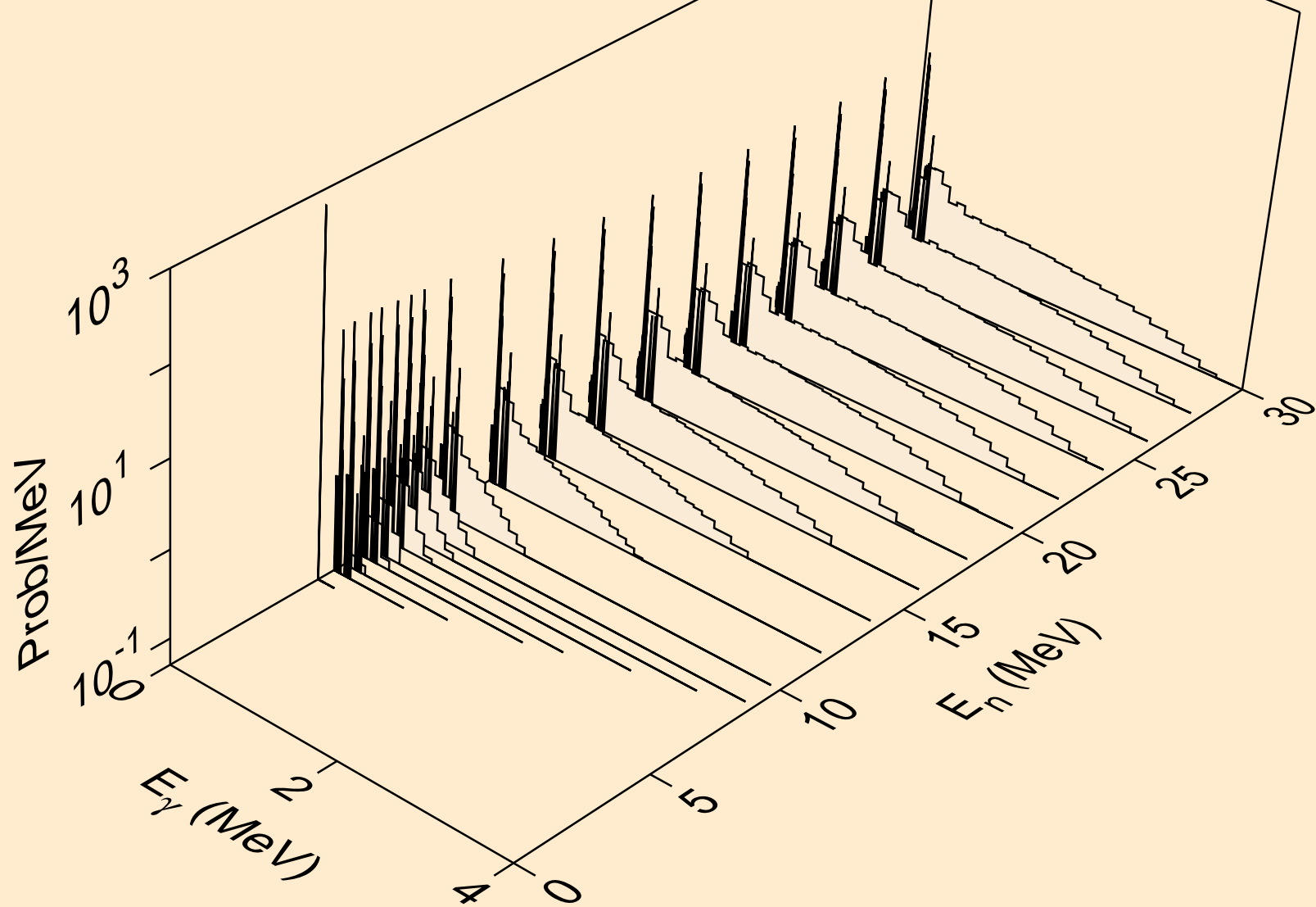
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Photon emission for (n,2n)a



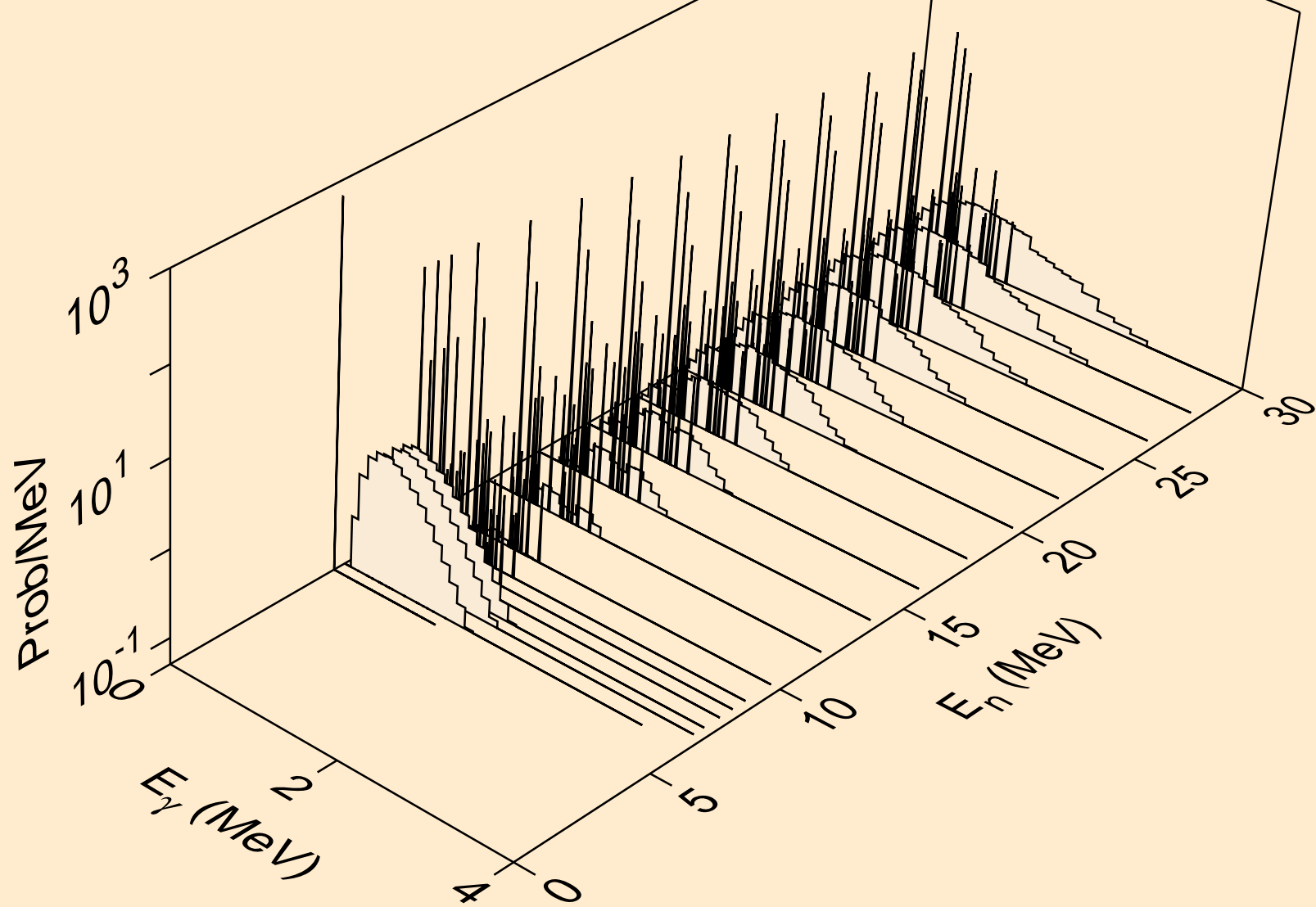
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Photon emission for (n,3n)a



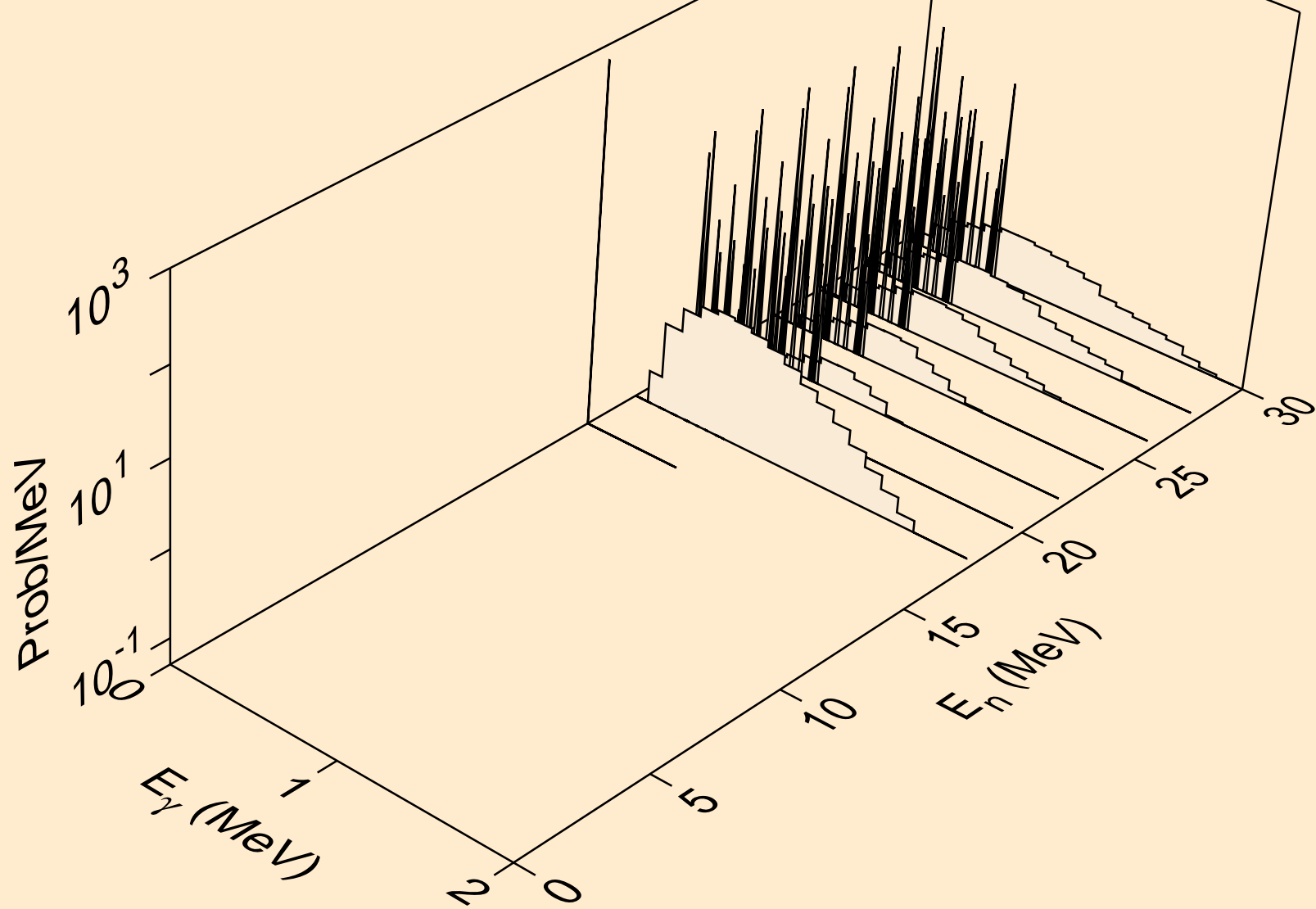
HF164 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)p



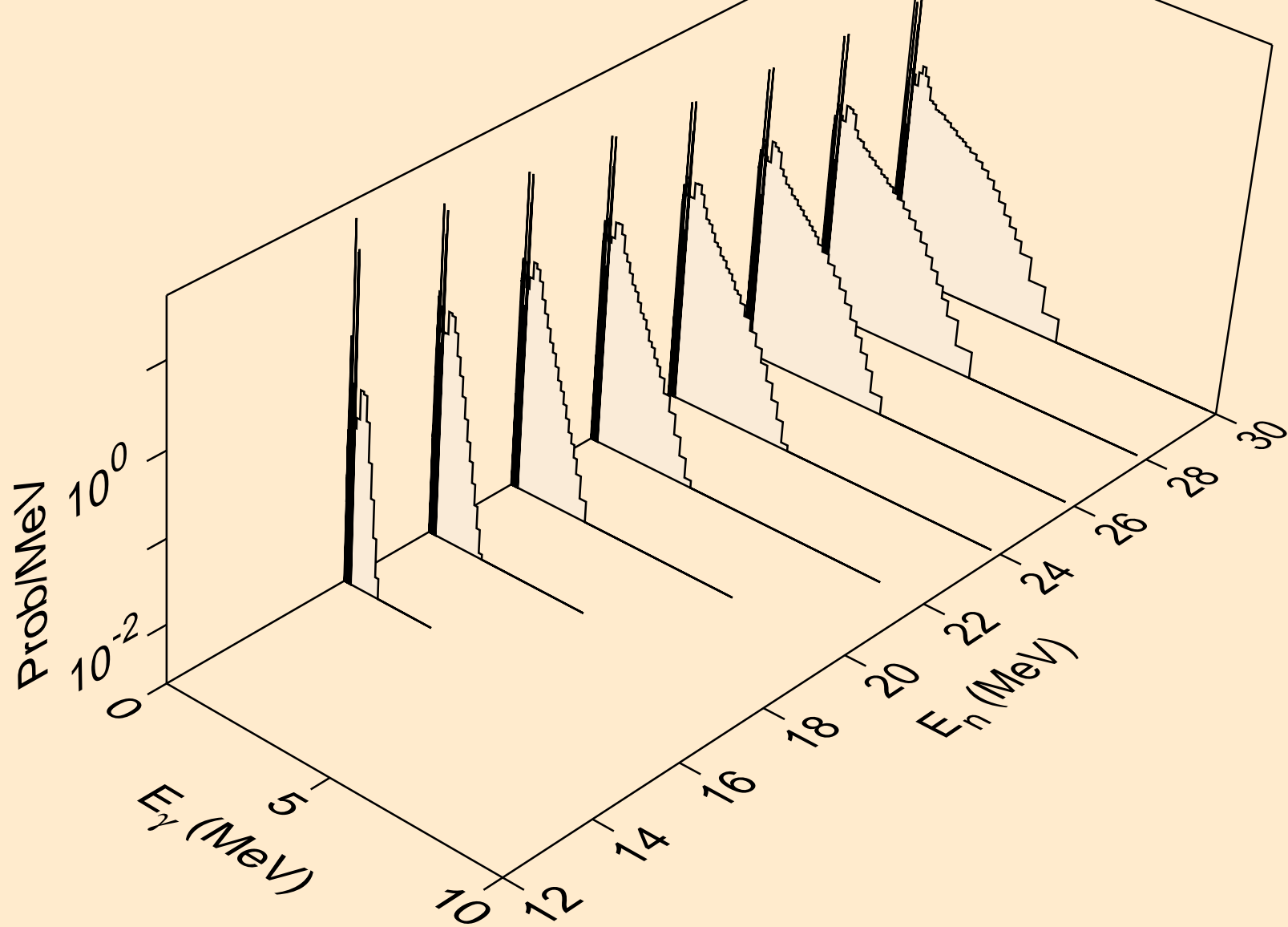
HF164 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)2a



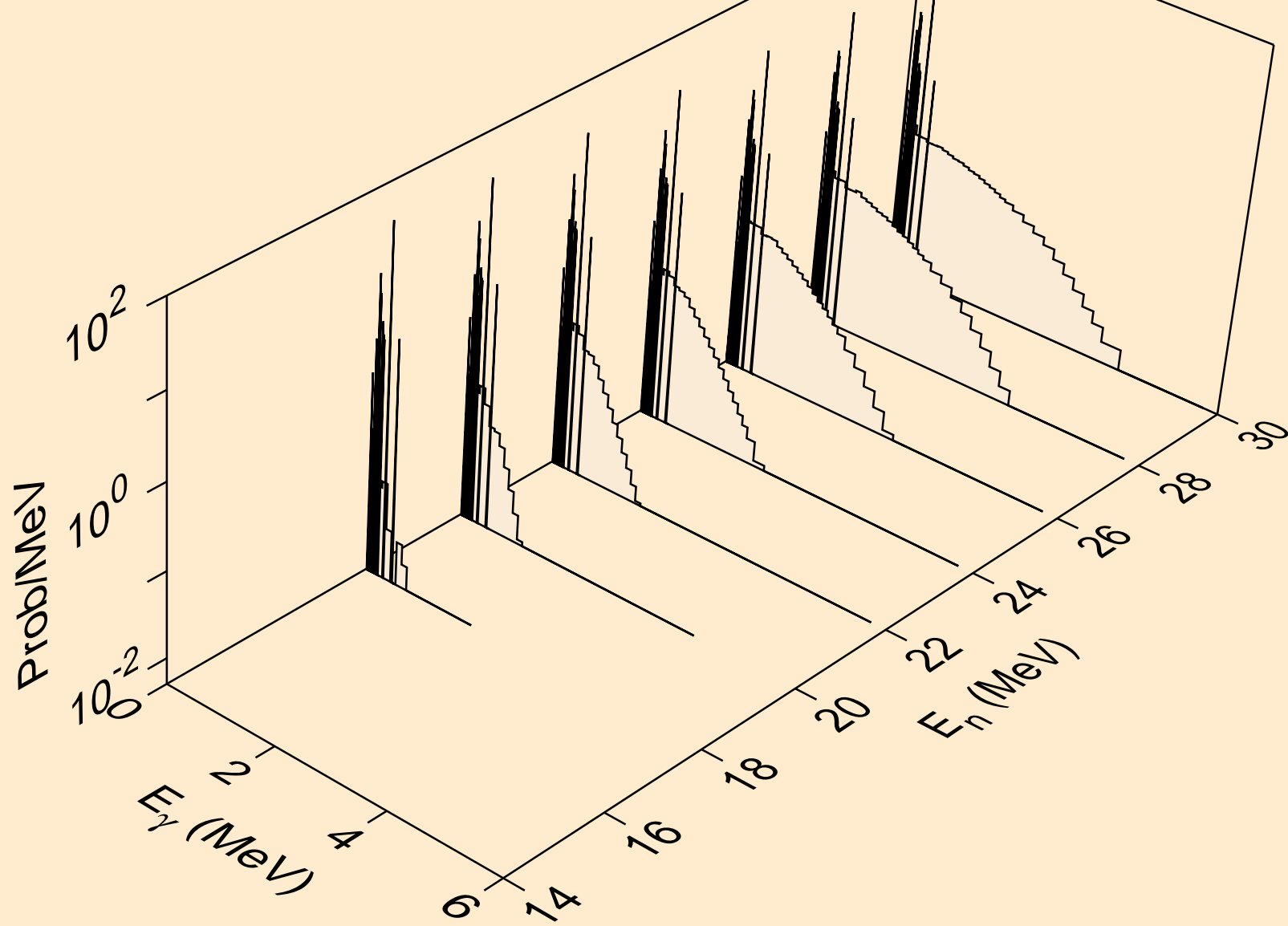
HF164 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2n)2a



HF164 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)d

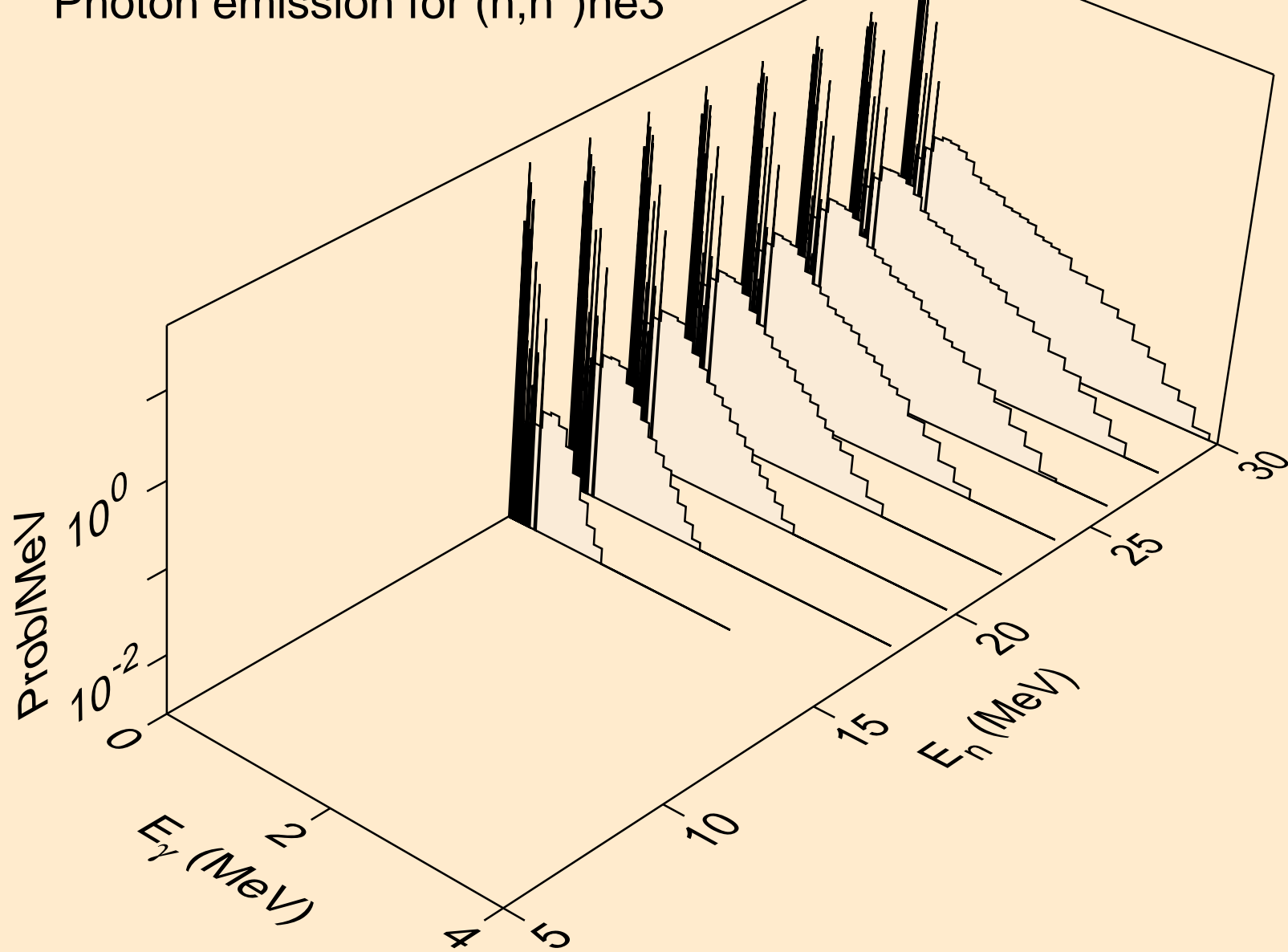


HF164 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)t

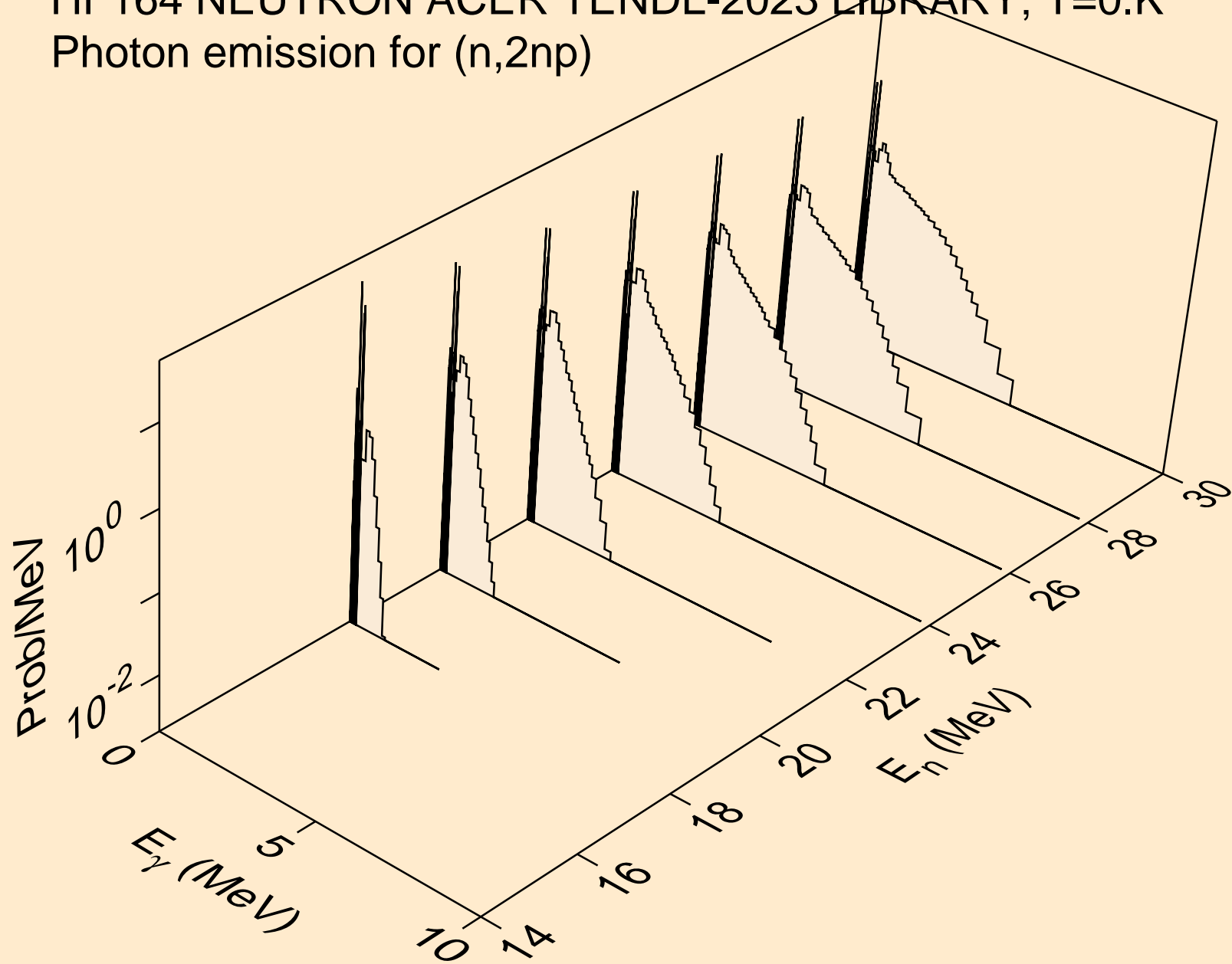




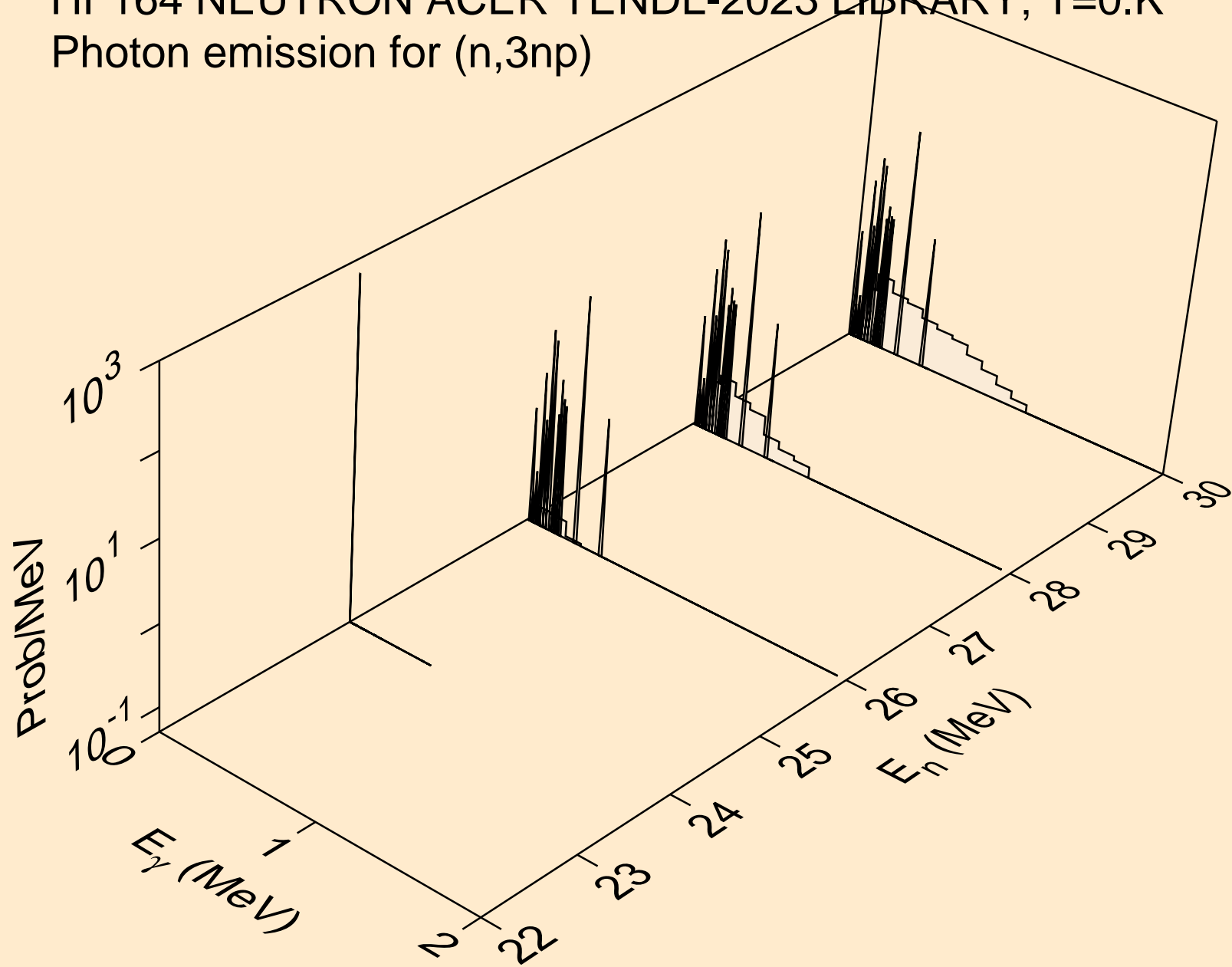
HF164 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)he3



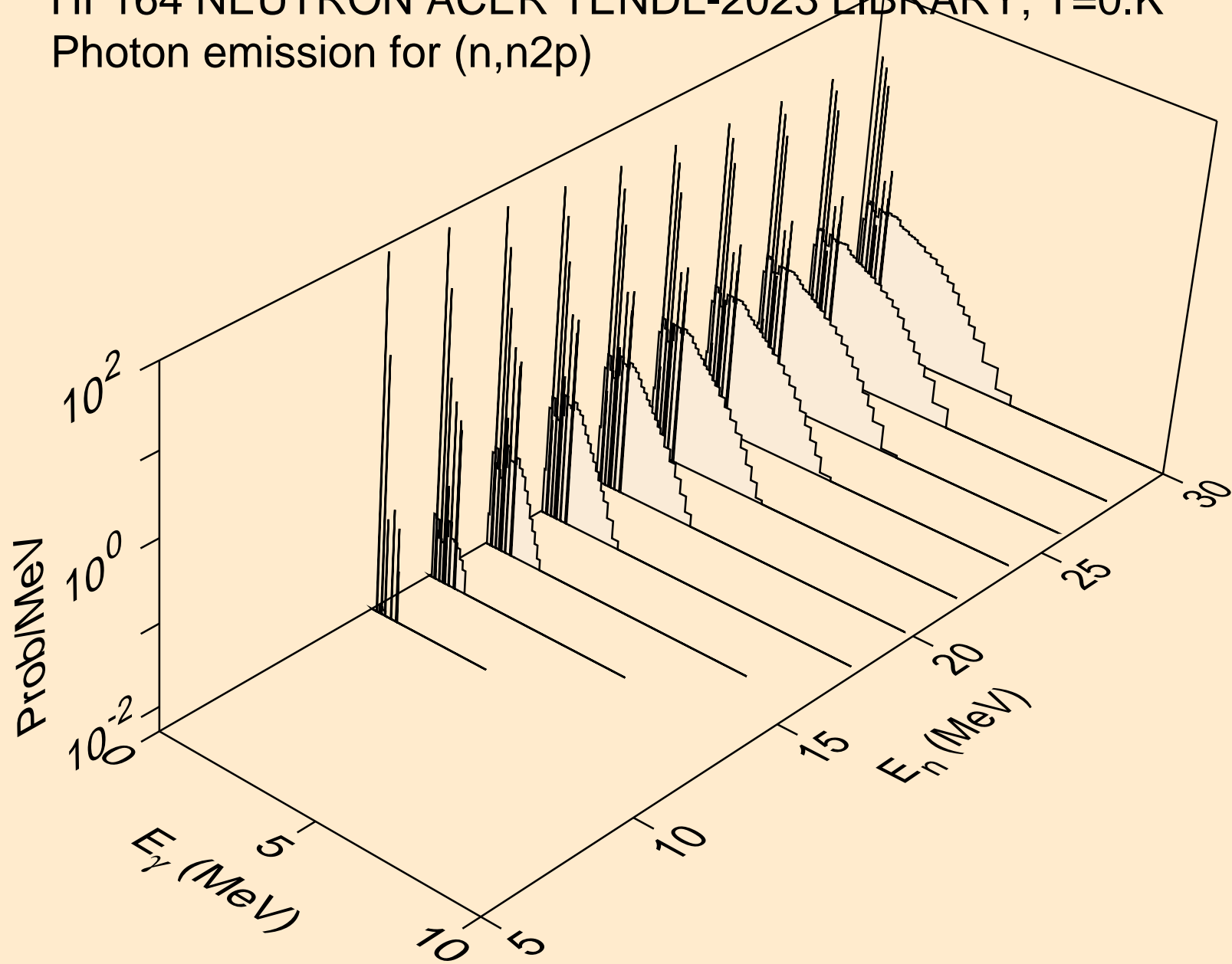
HF164 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2np)



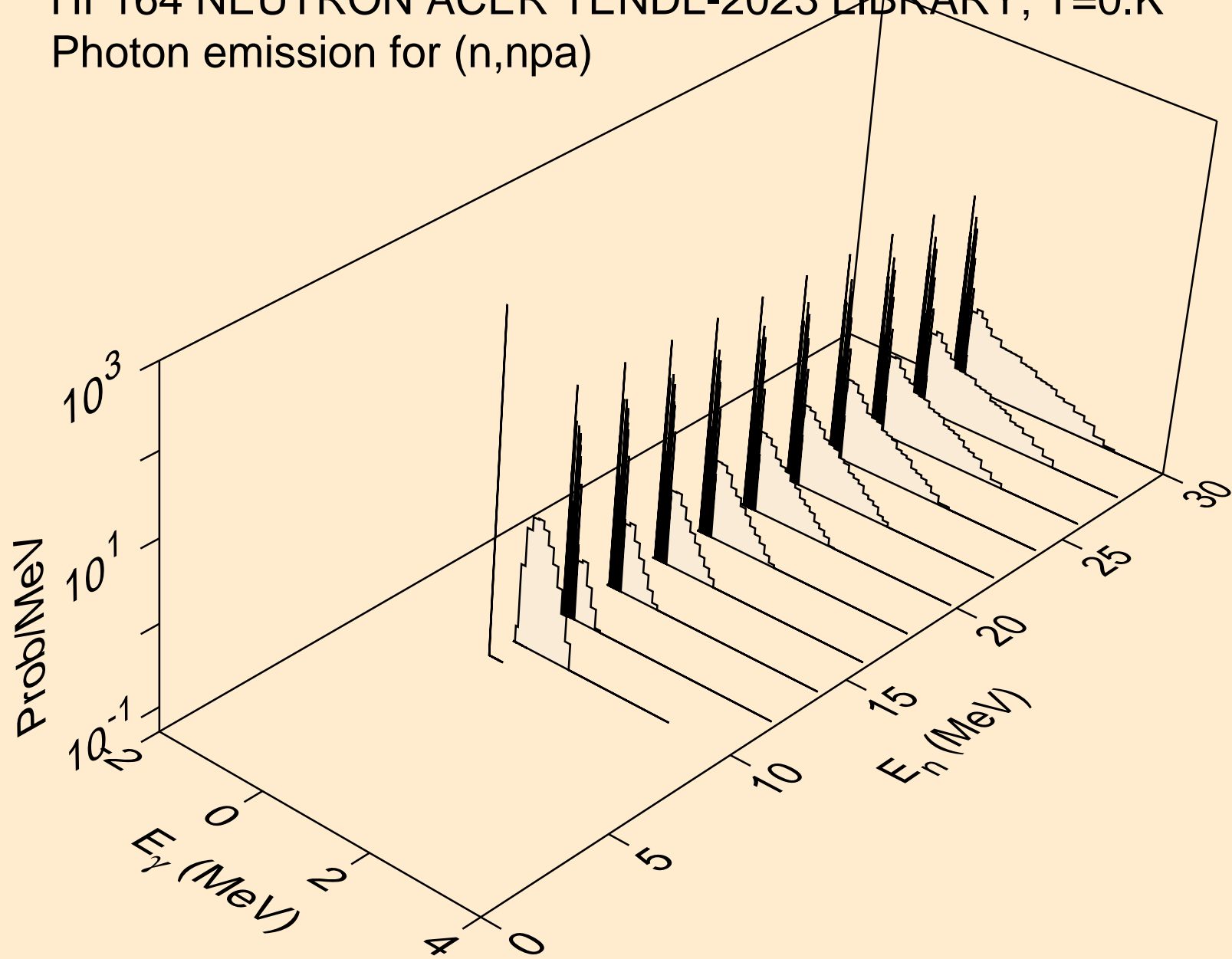
HF164 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,3np)



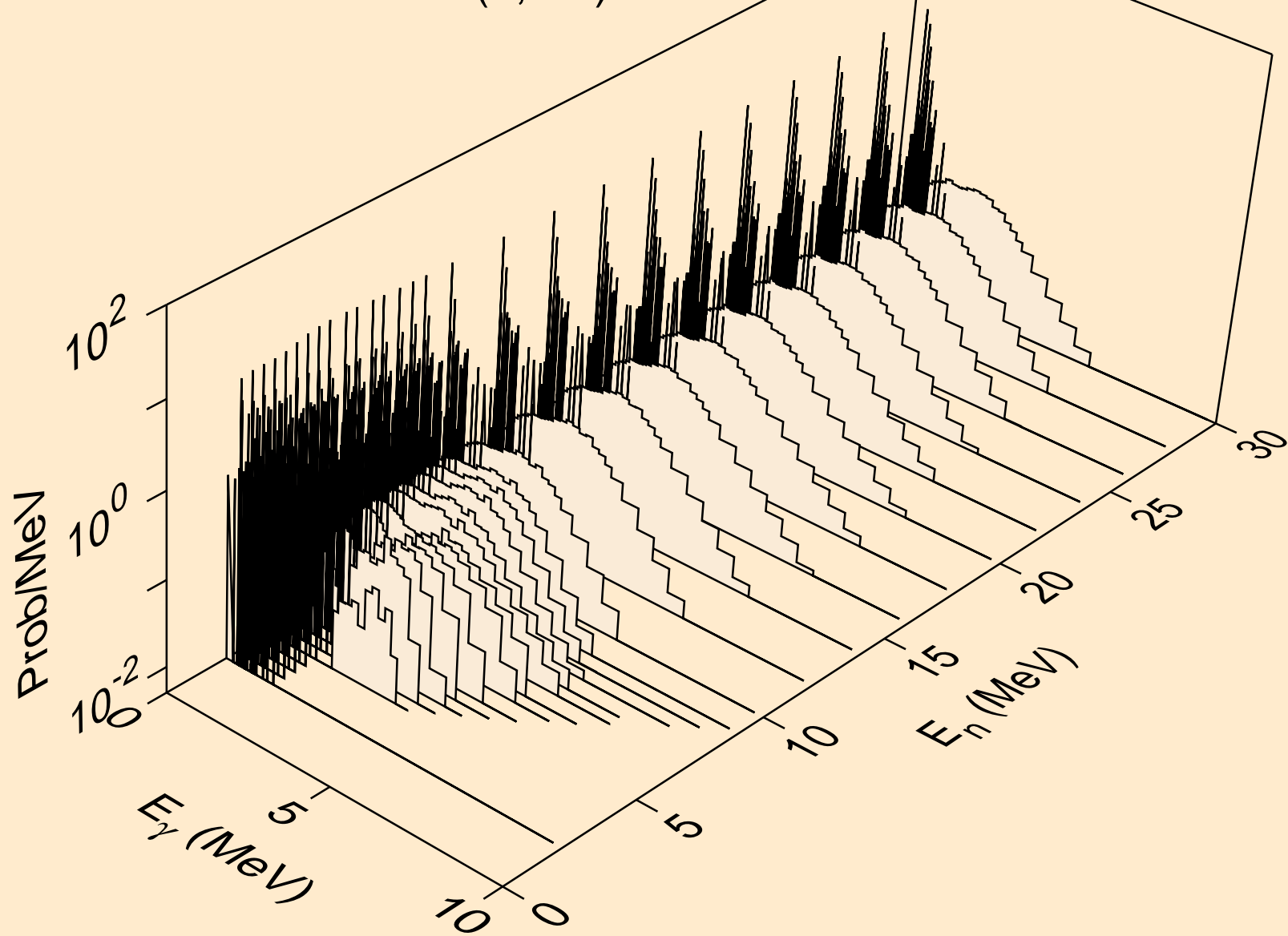
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Photon emission for (n,n2p)



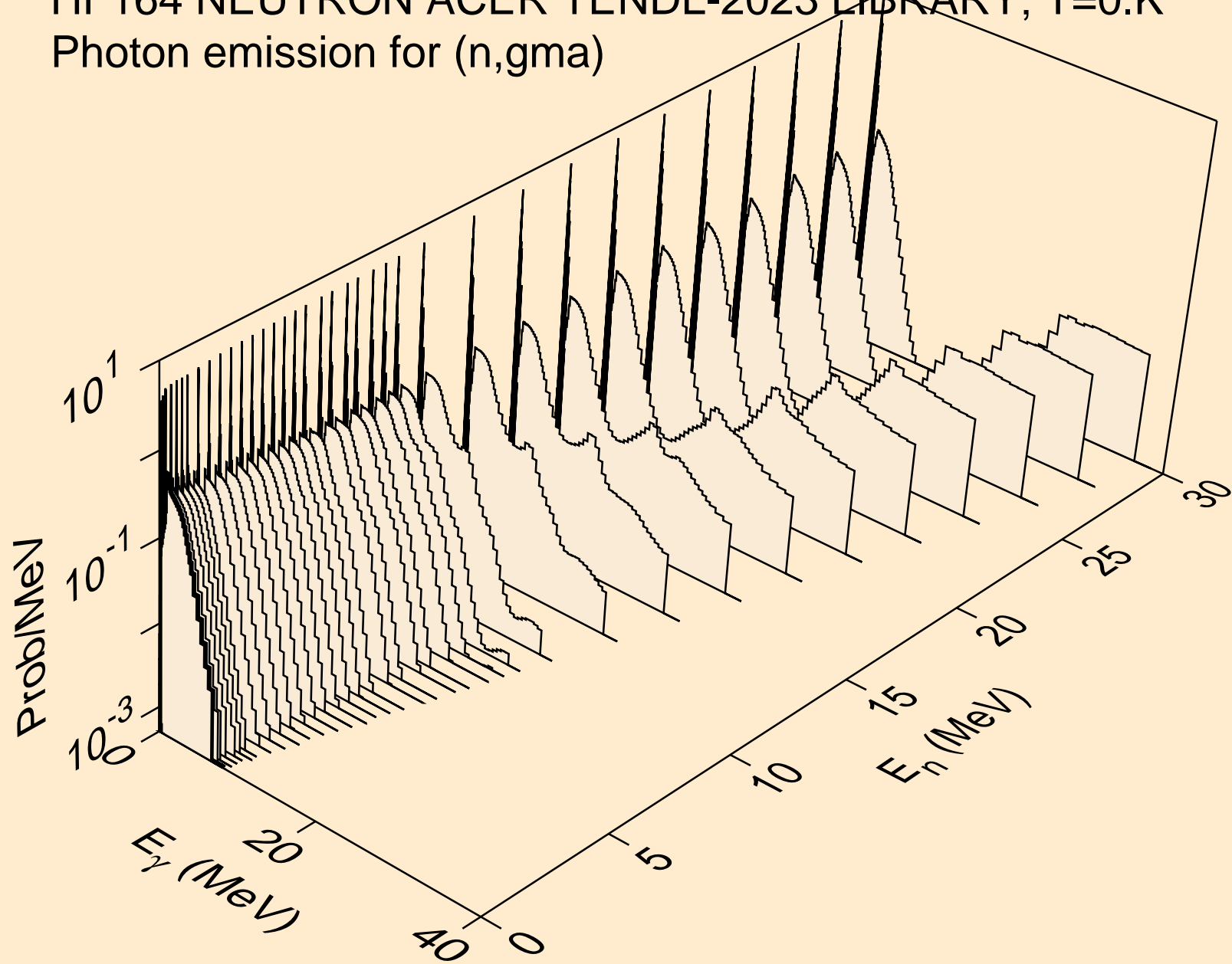
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Photon emission for (n,npa)



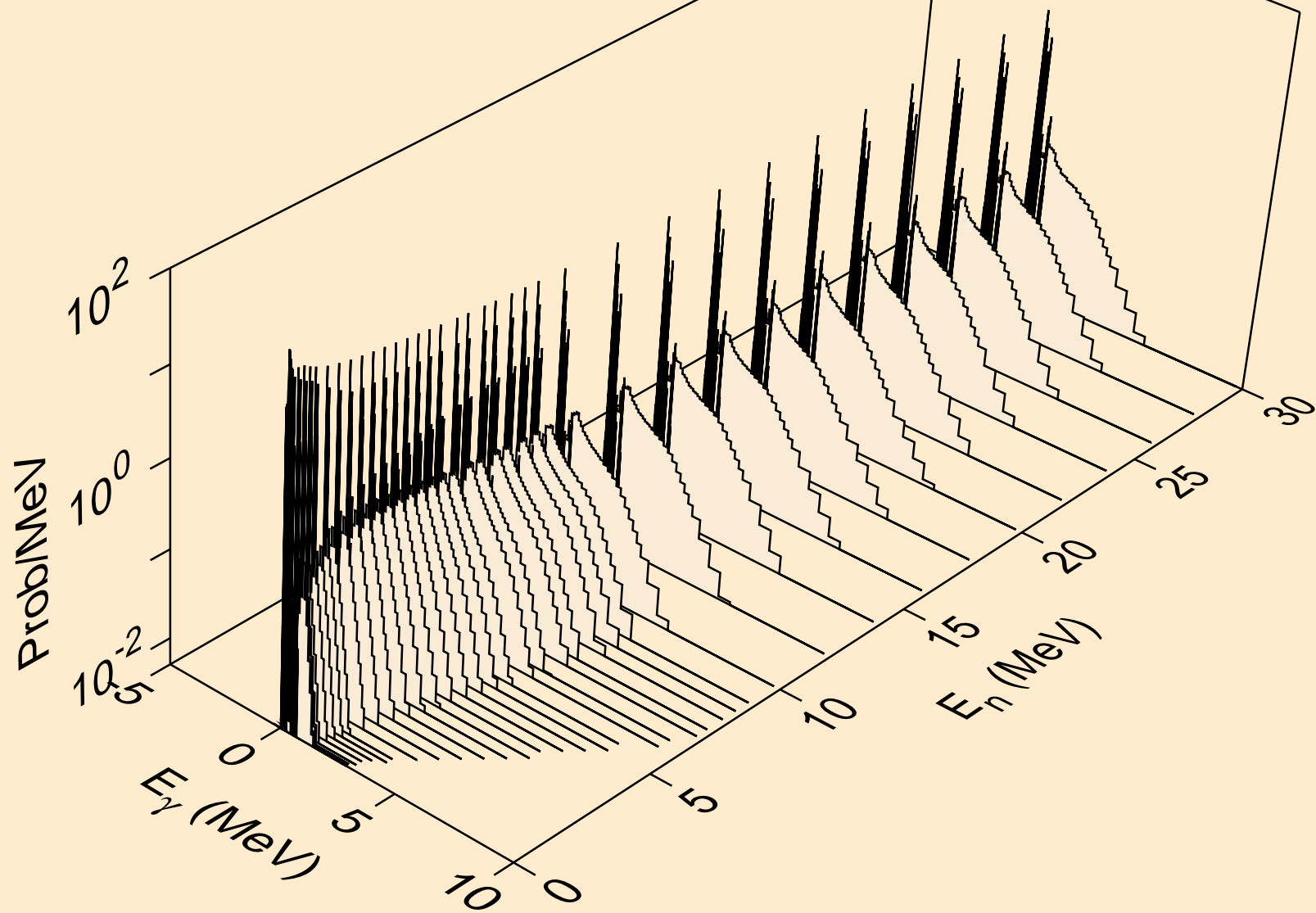
HF164 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*c)



HF164 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,gma)

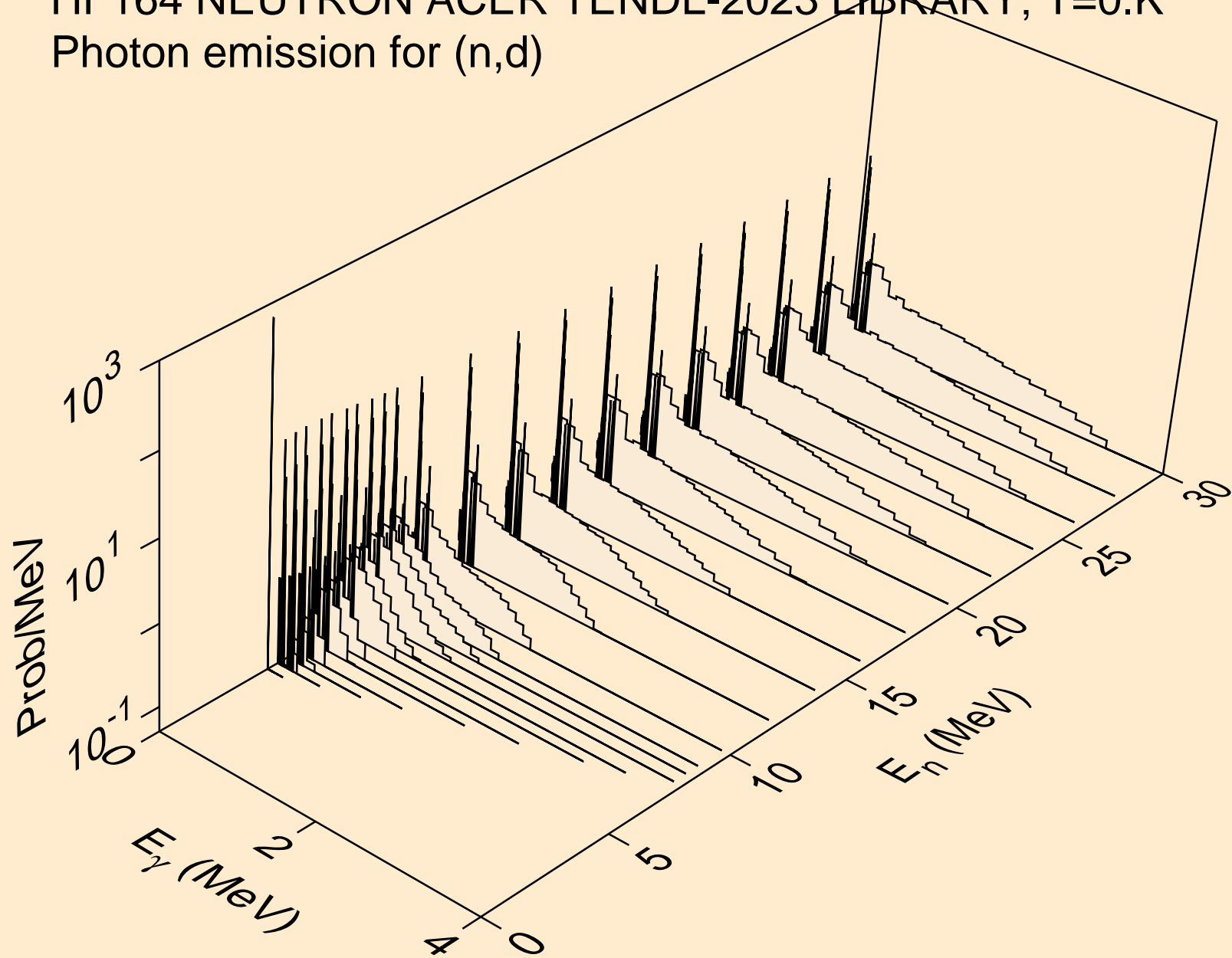


HF164 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,p)

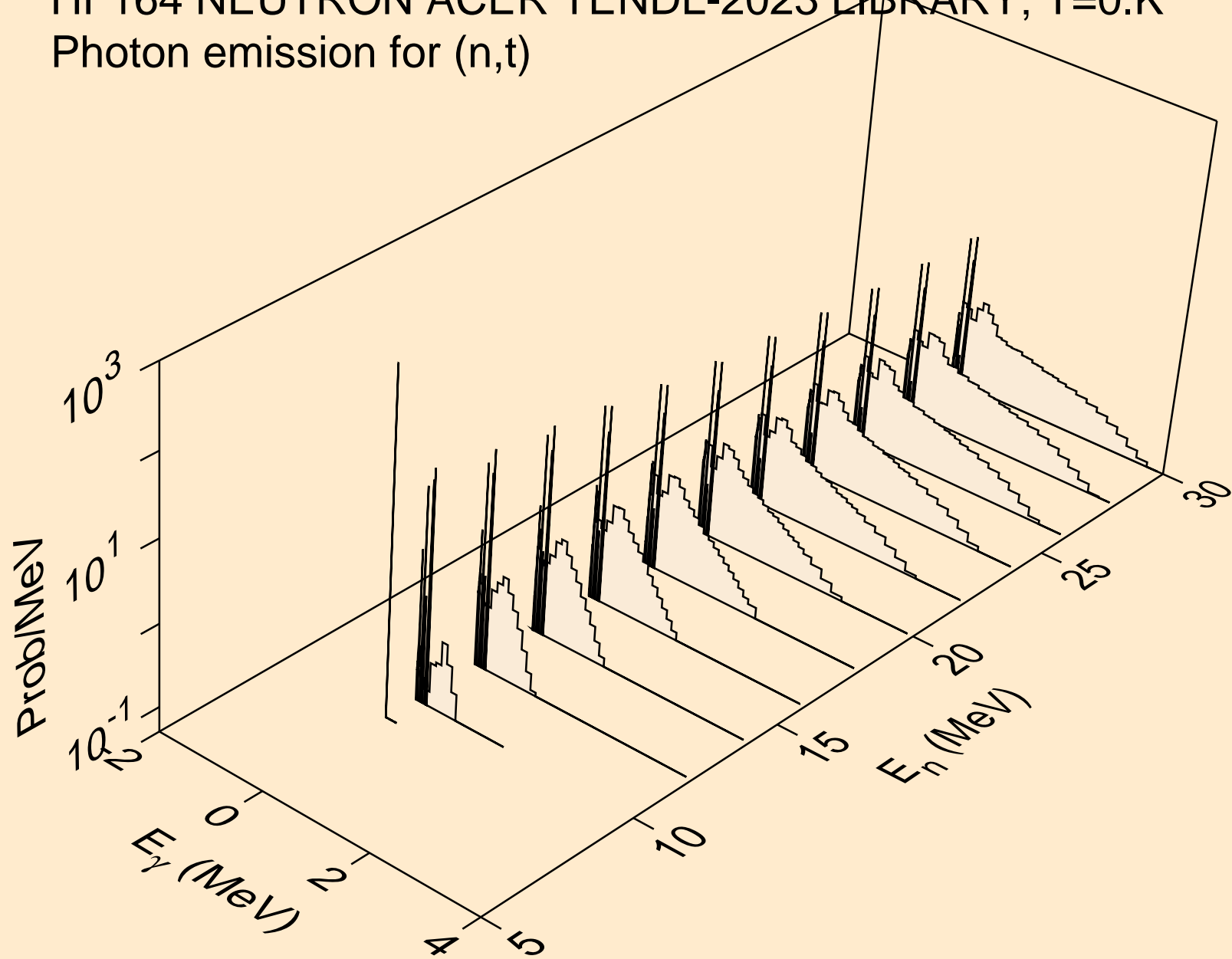




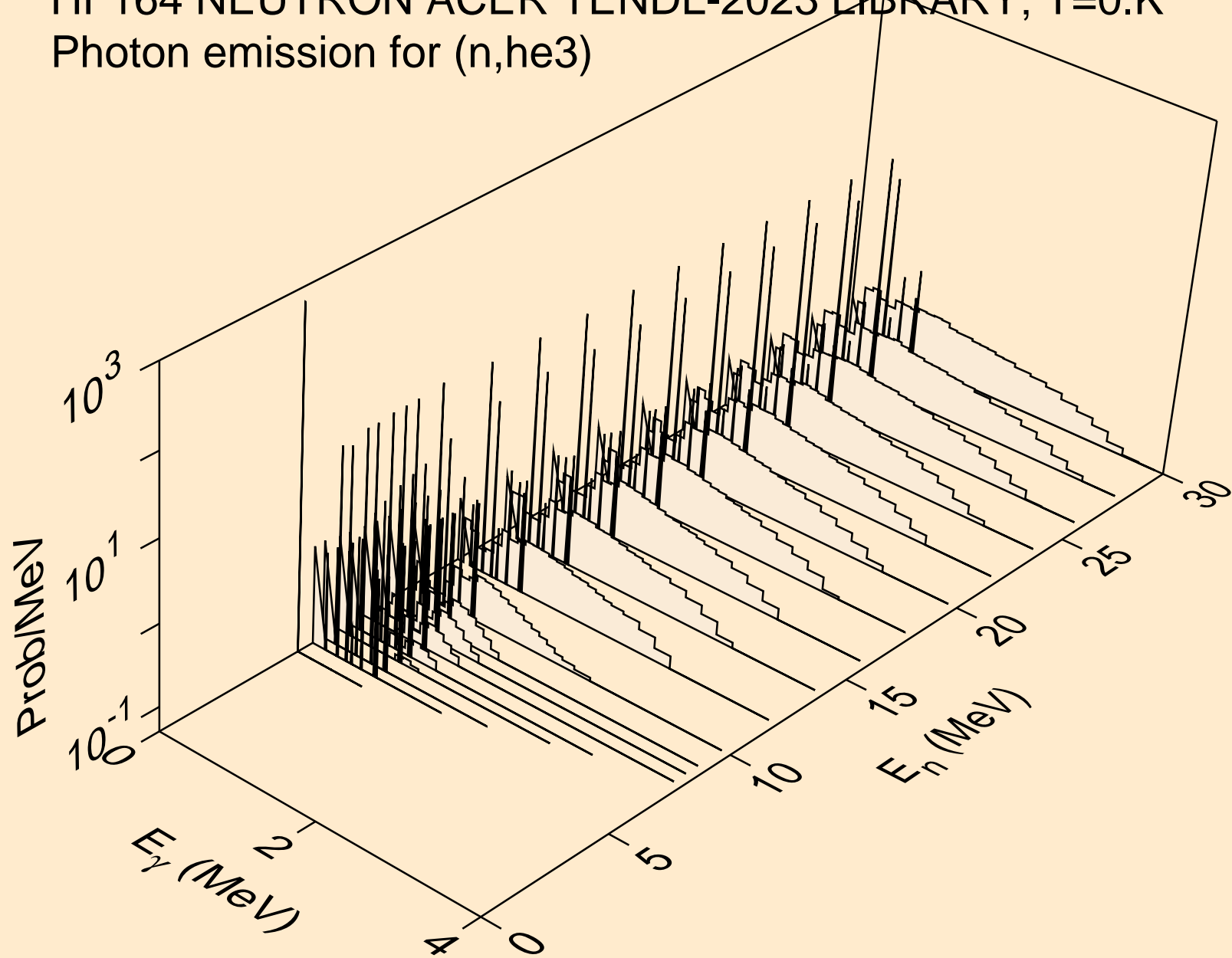
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Photon emission for (n,d)



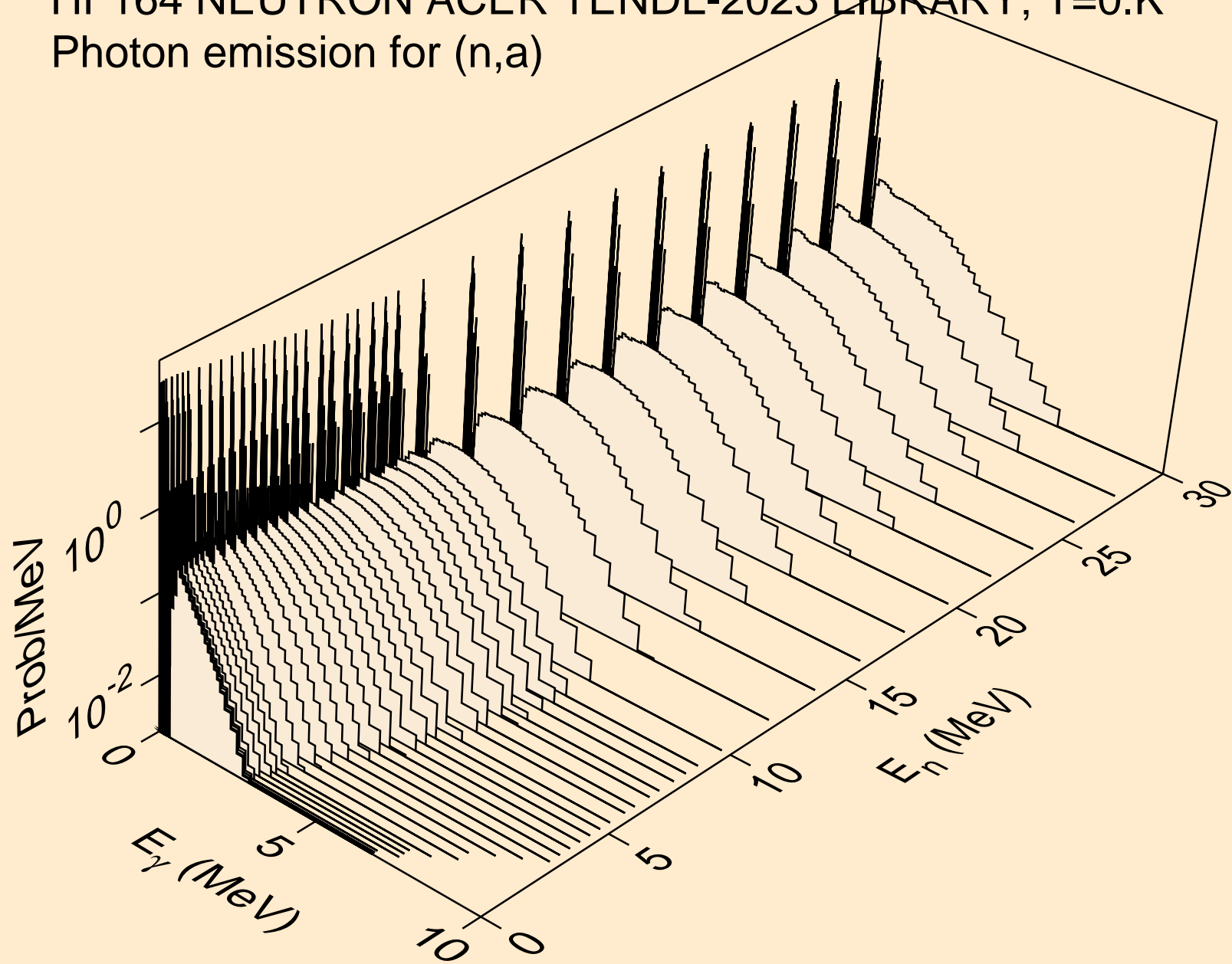
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Photon emission for (n,t)



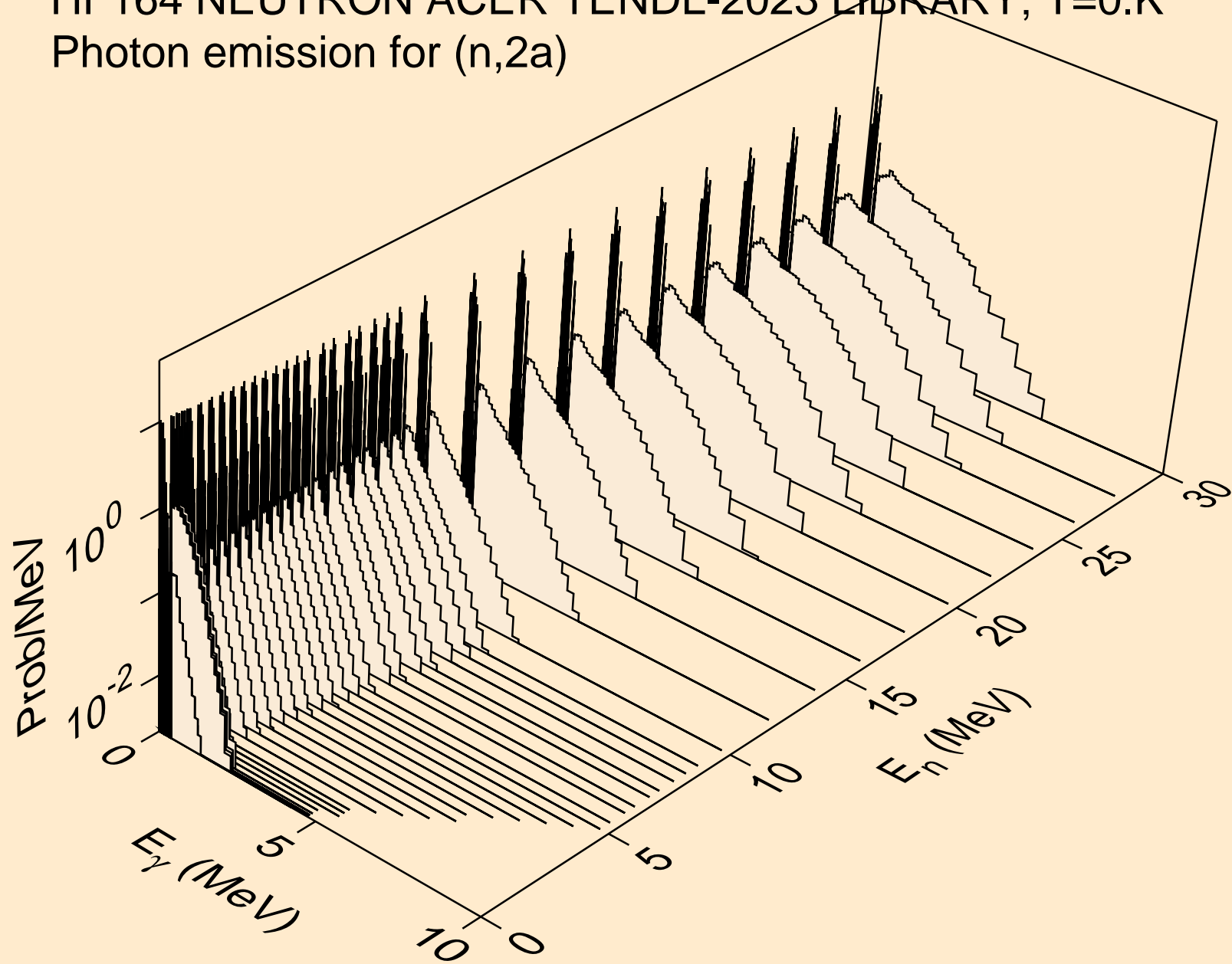
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Photon emission for (n,he3)



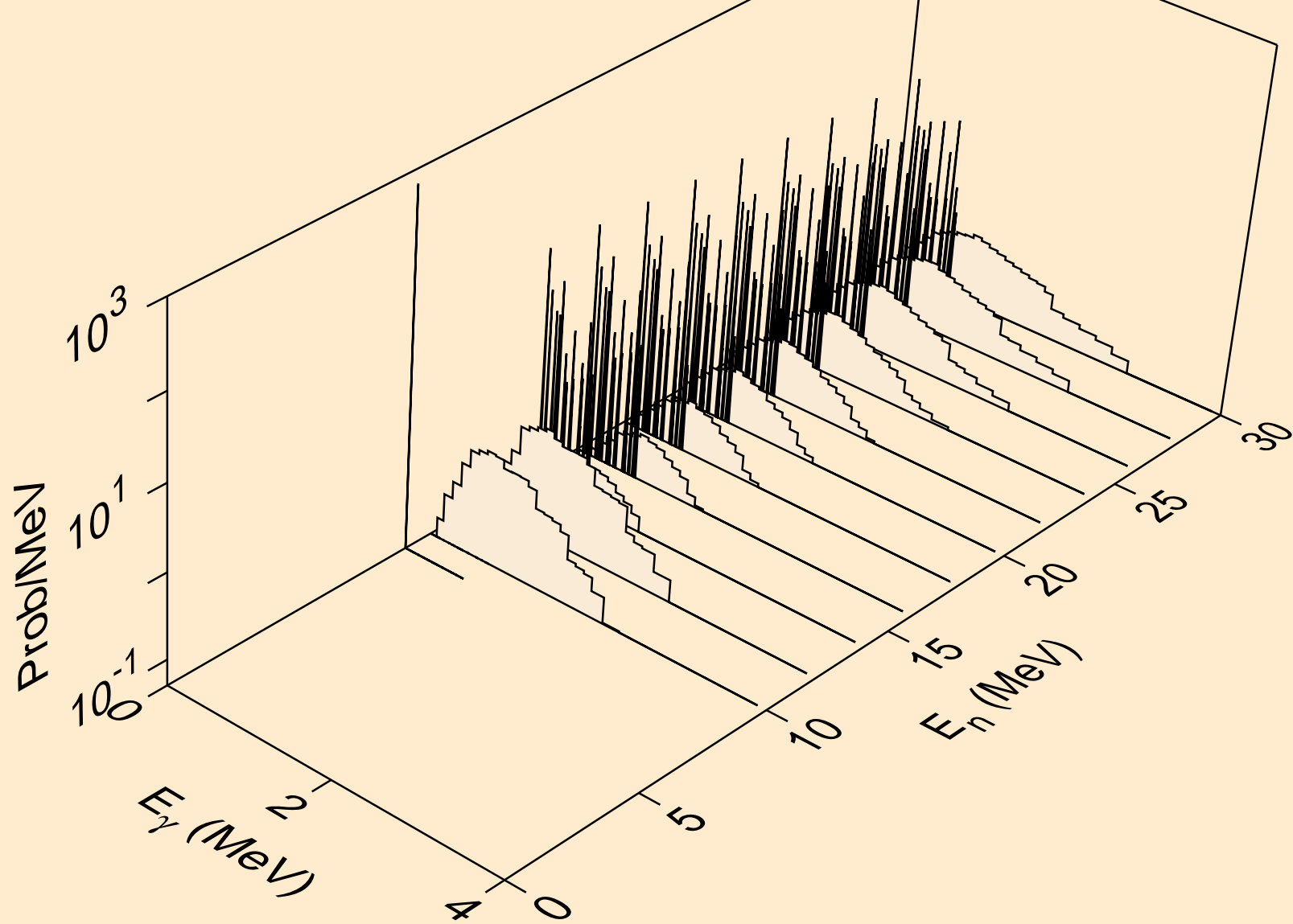
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Photon emission for (n,a)



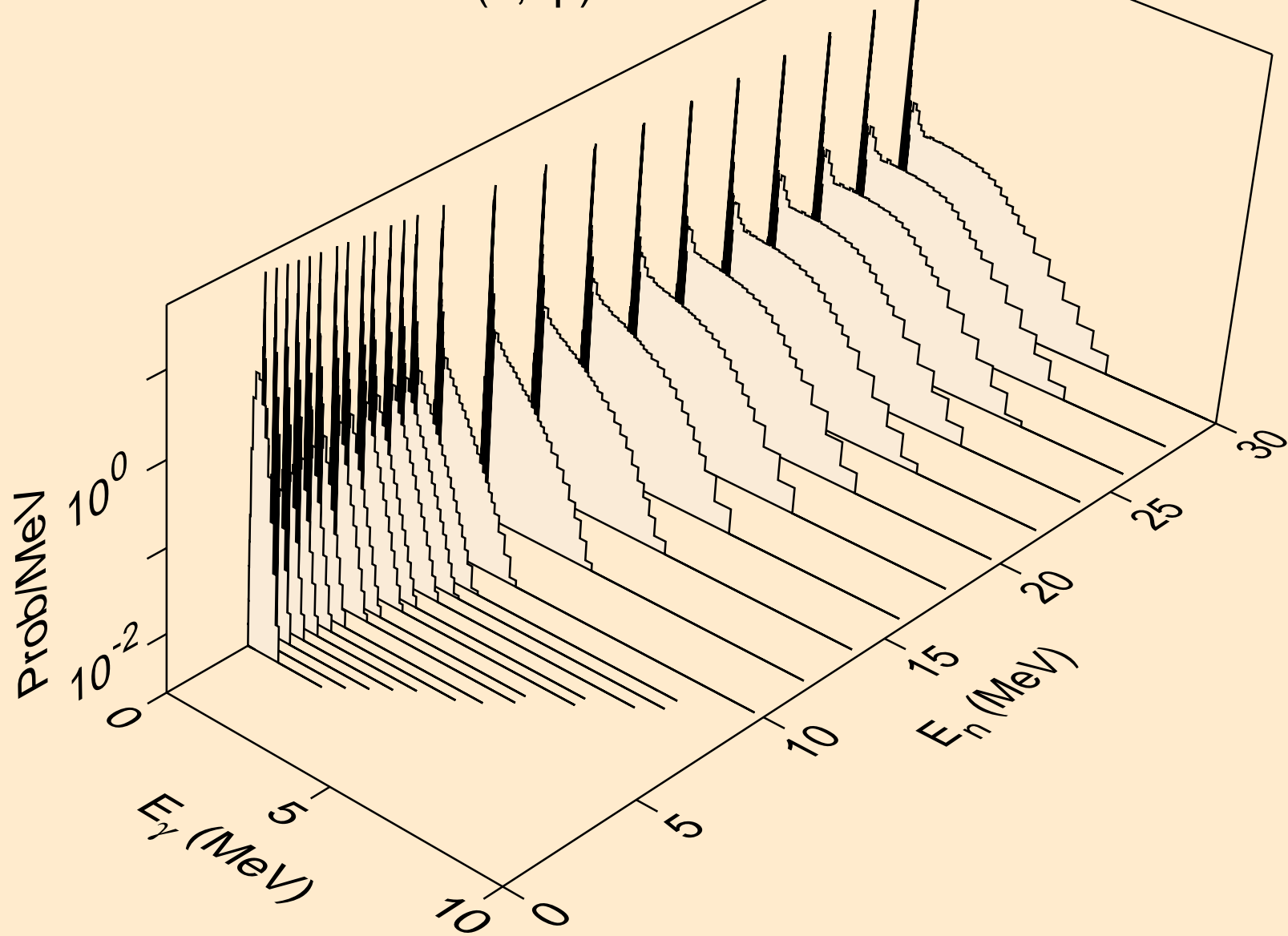
HF164 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2a)



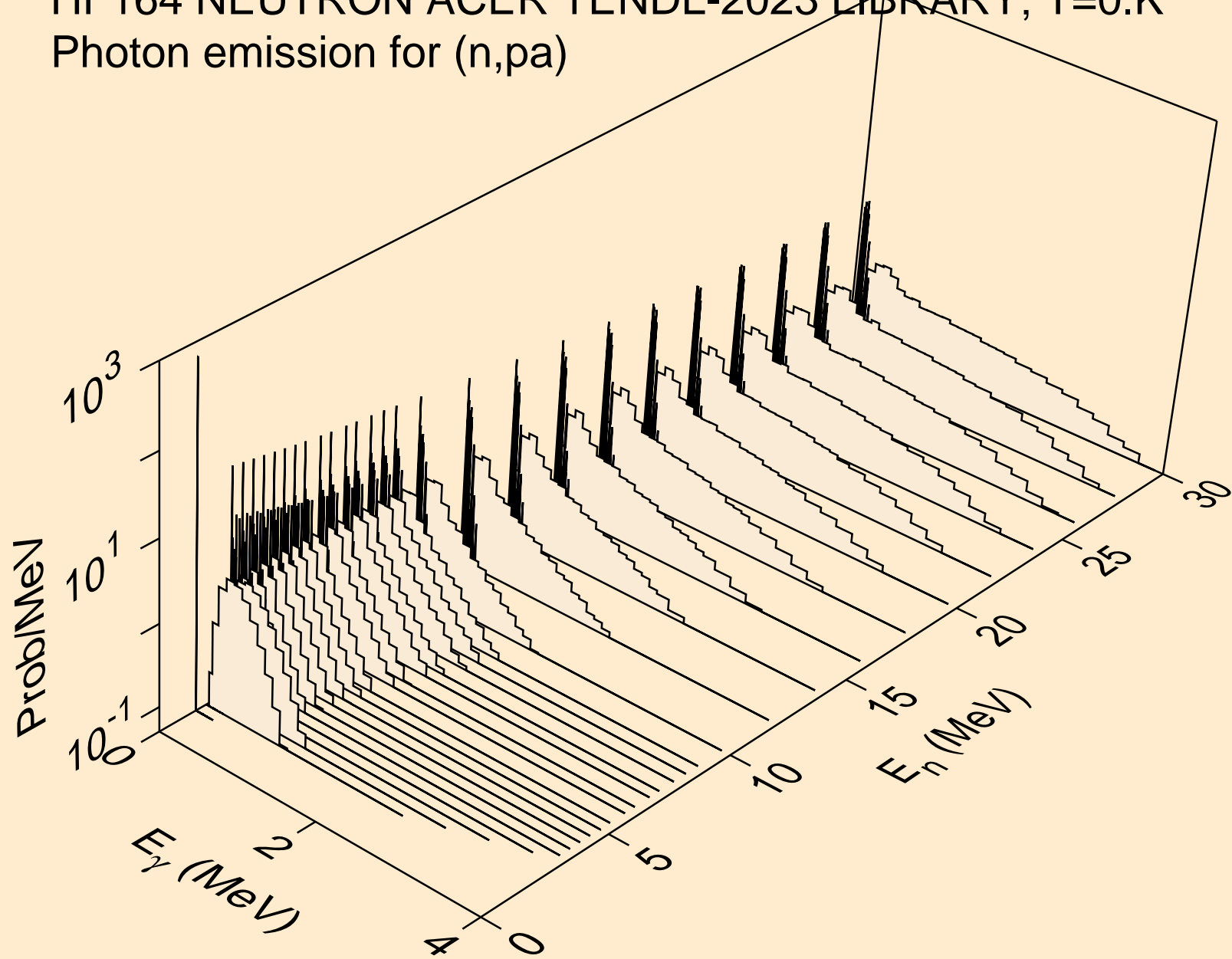
HF164 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,3a)



HF164 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2p)

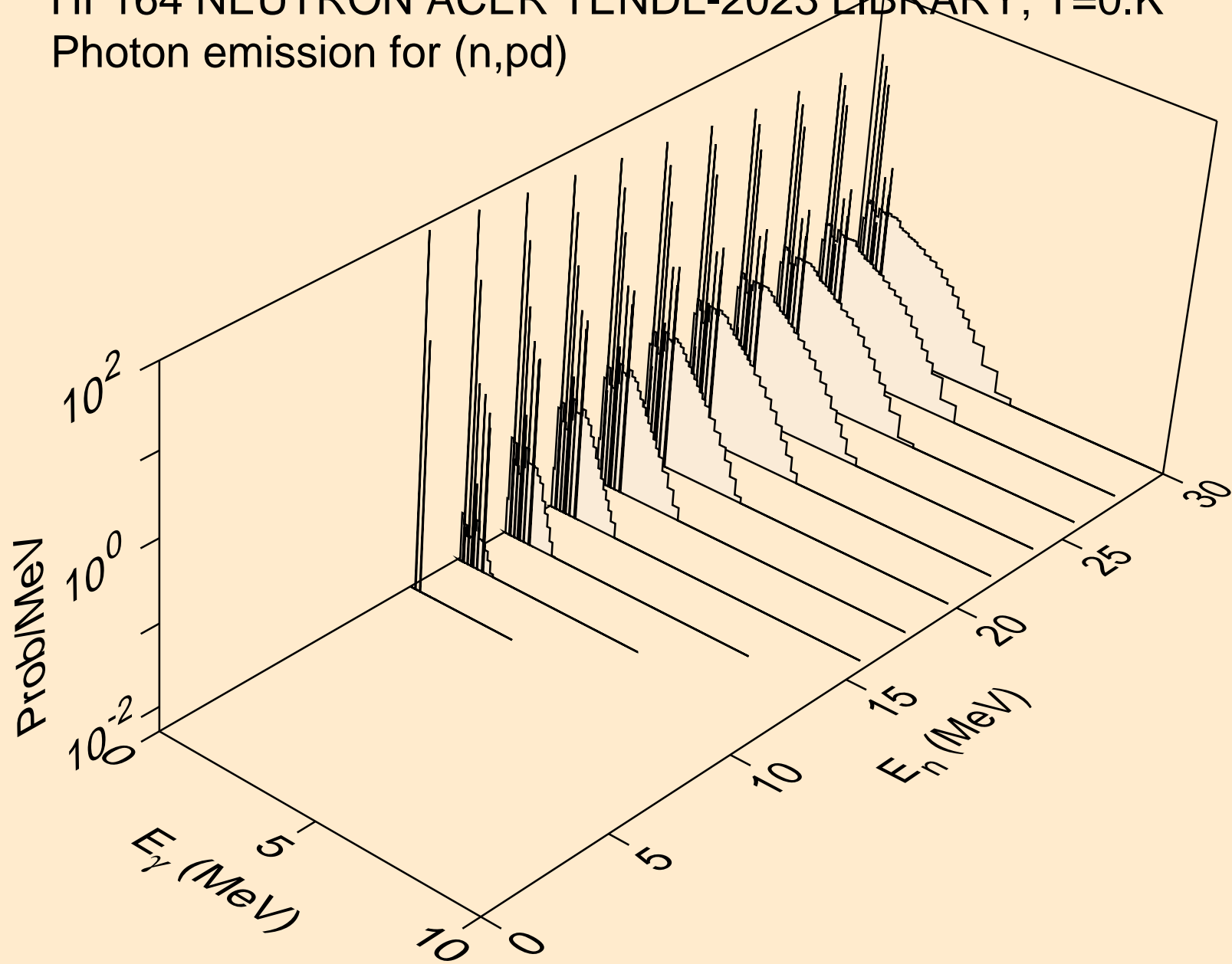


HF164 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,p)

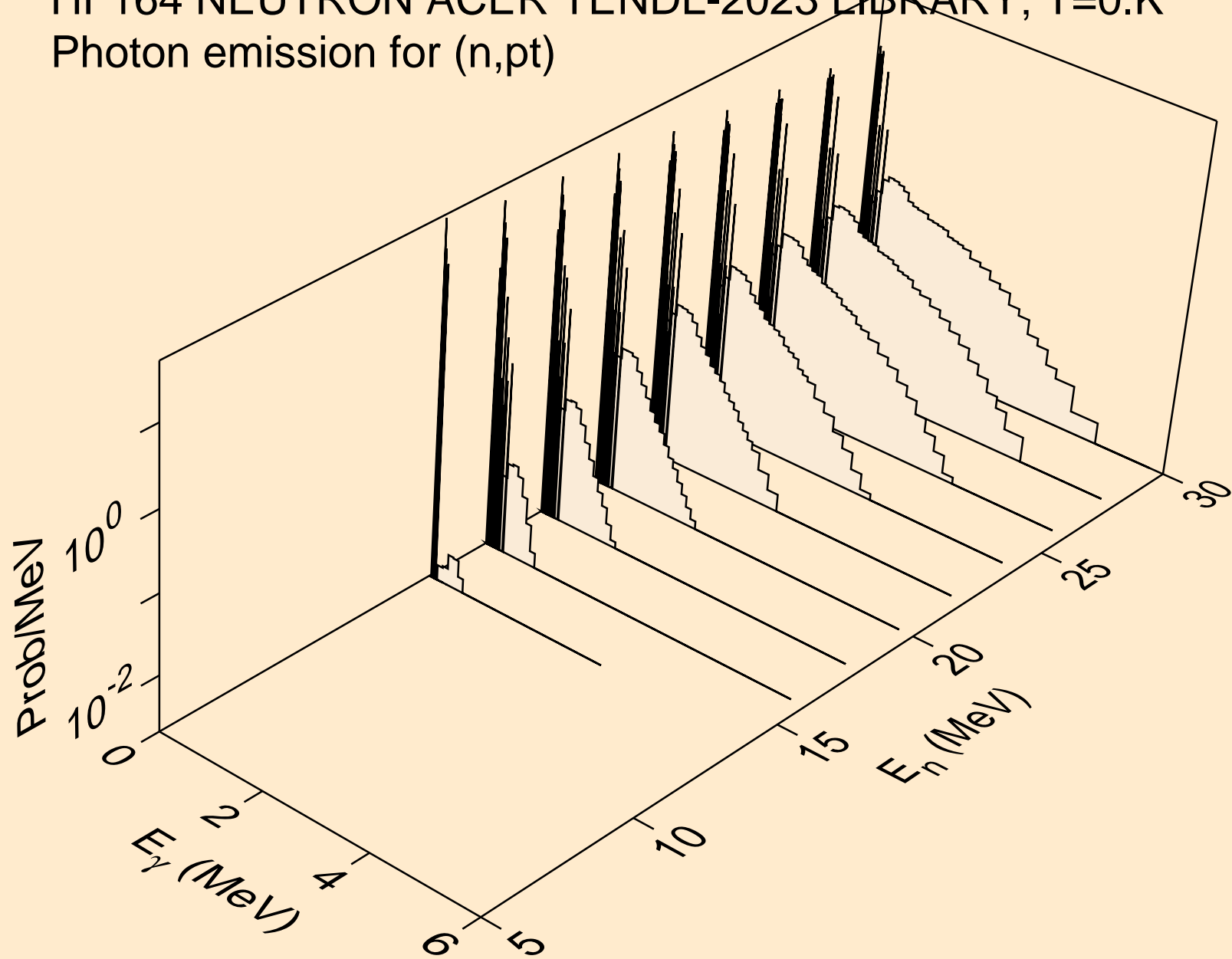




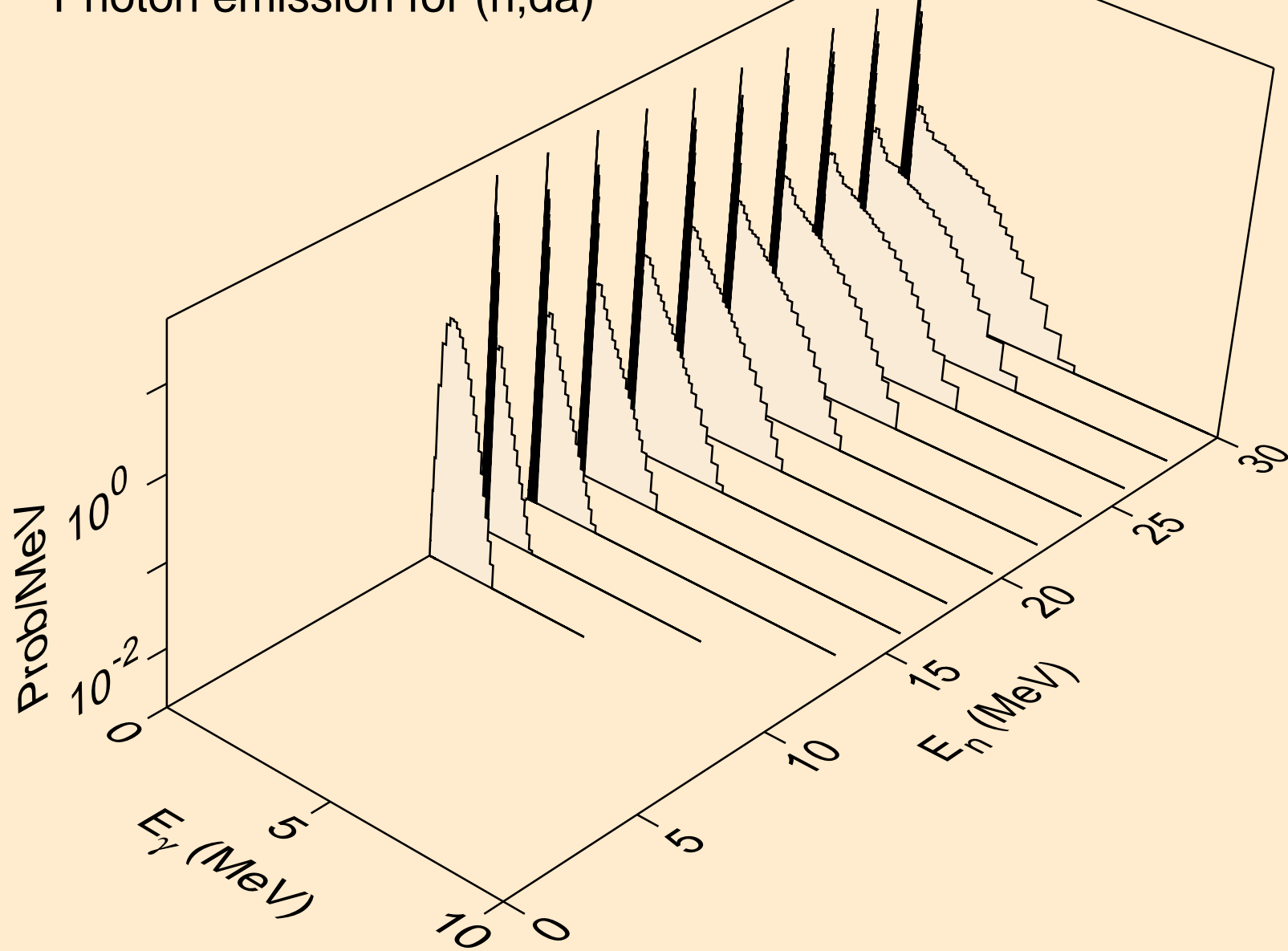
HF164 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,pd)



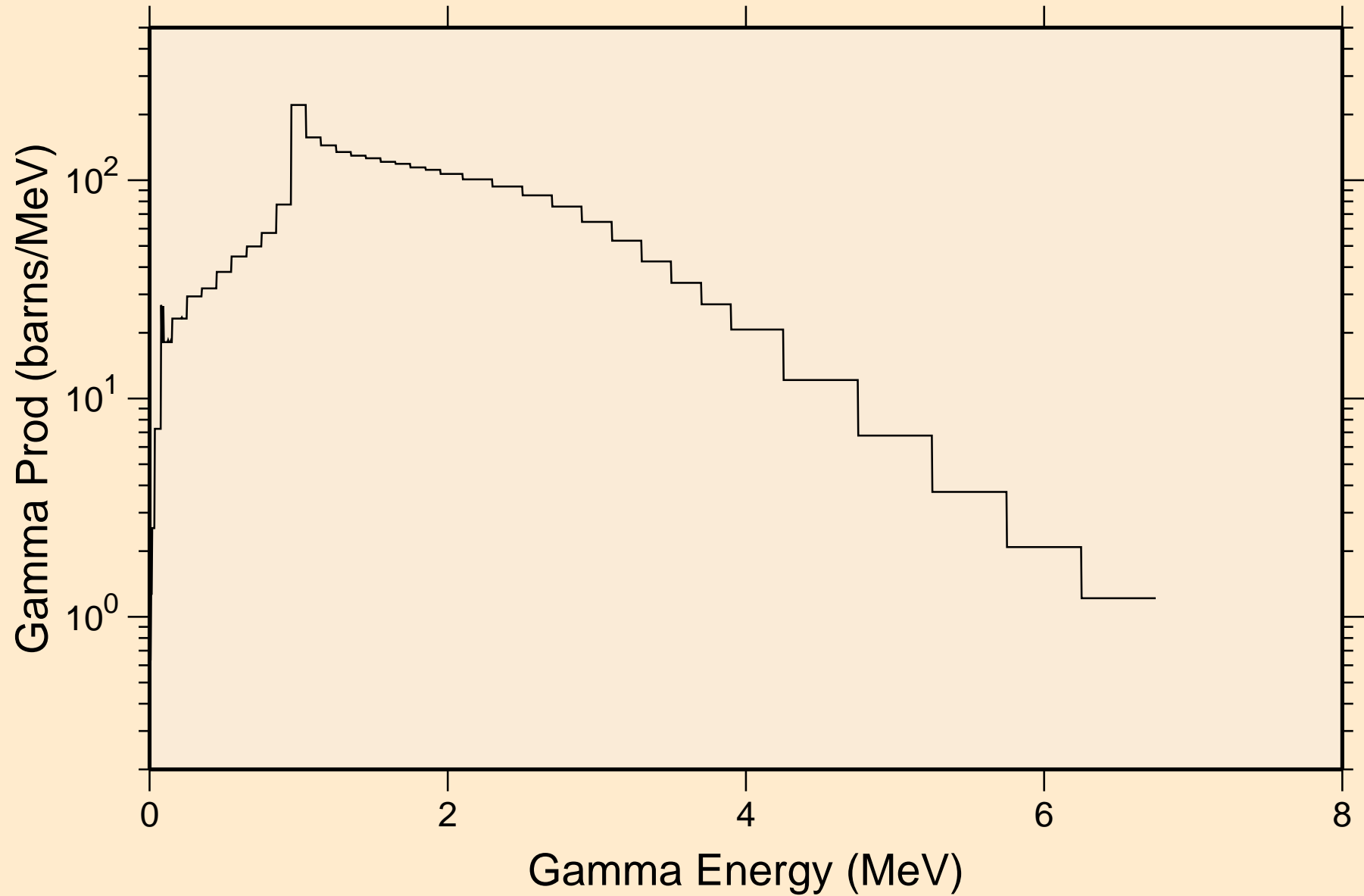
HF164 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,pt)



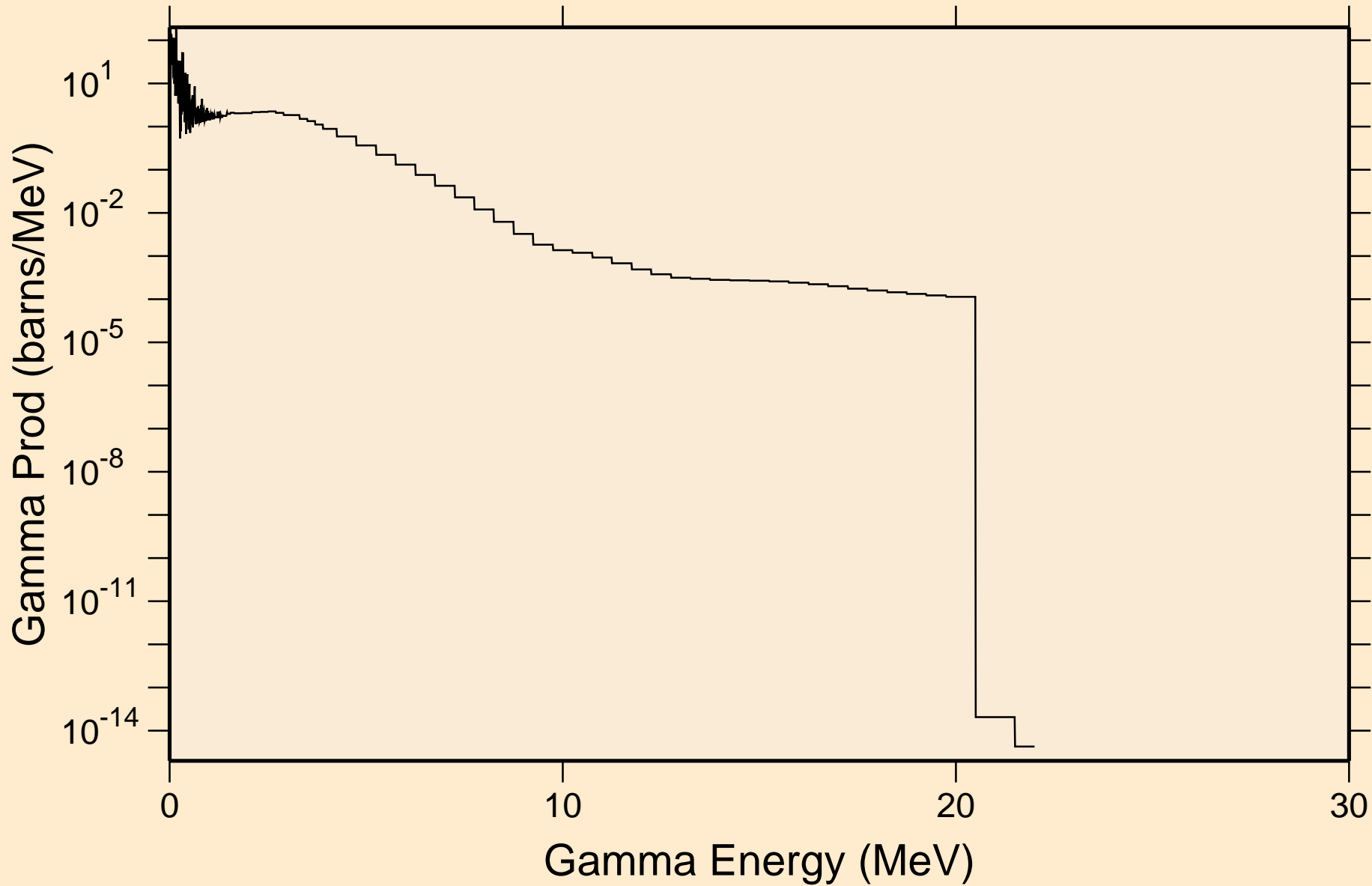
HF164 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,da)



HF164 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
thermal capture photon spectrum

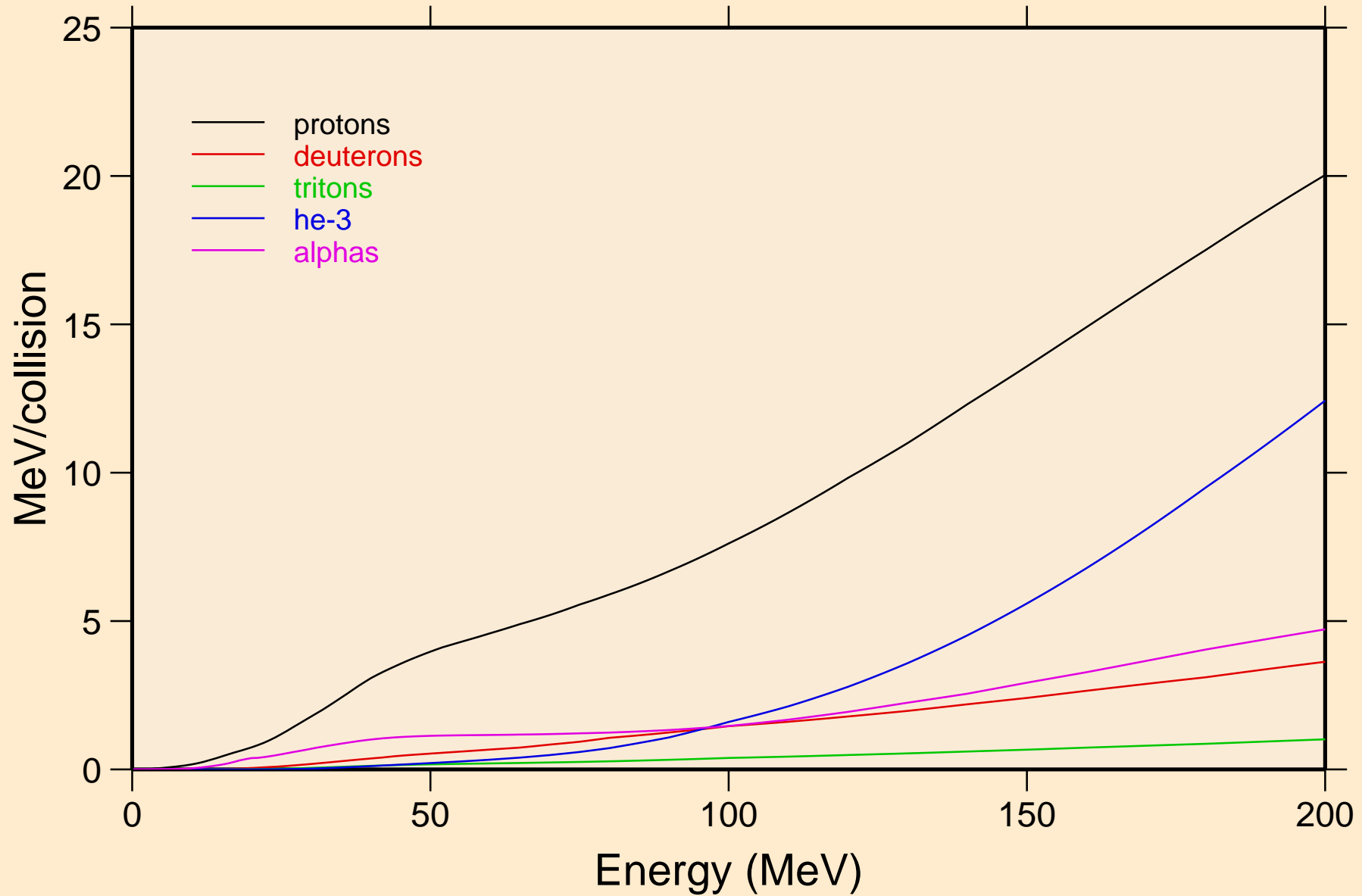


HF164 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
14 MeV photon spectrum



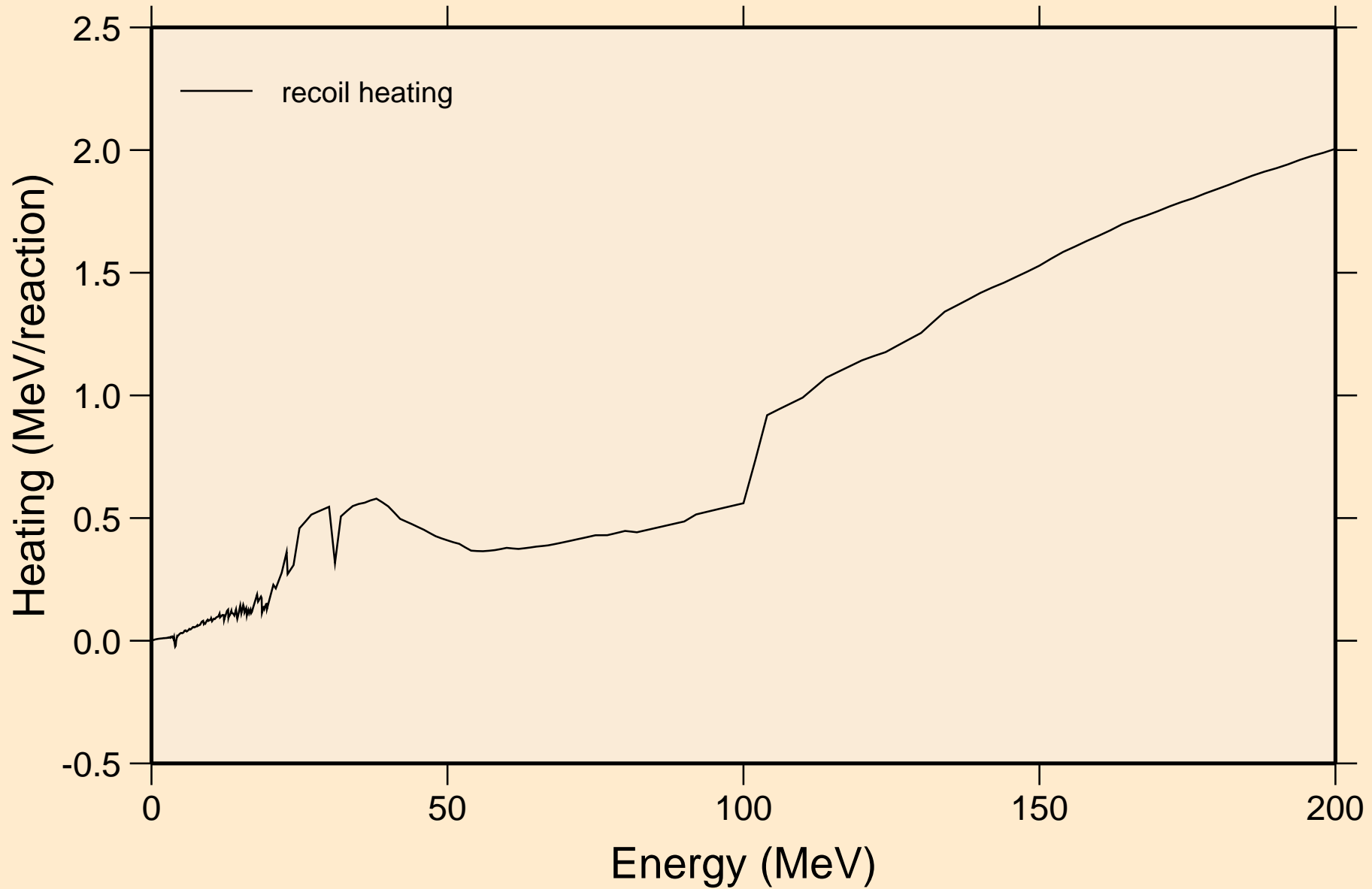
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## Particle heating contributions



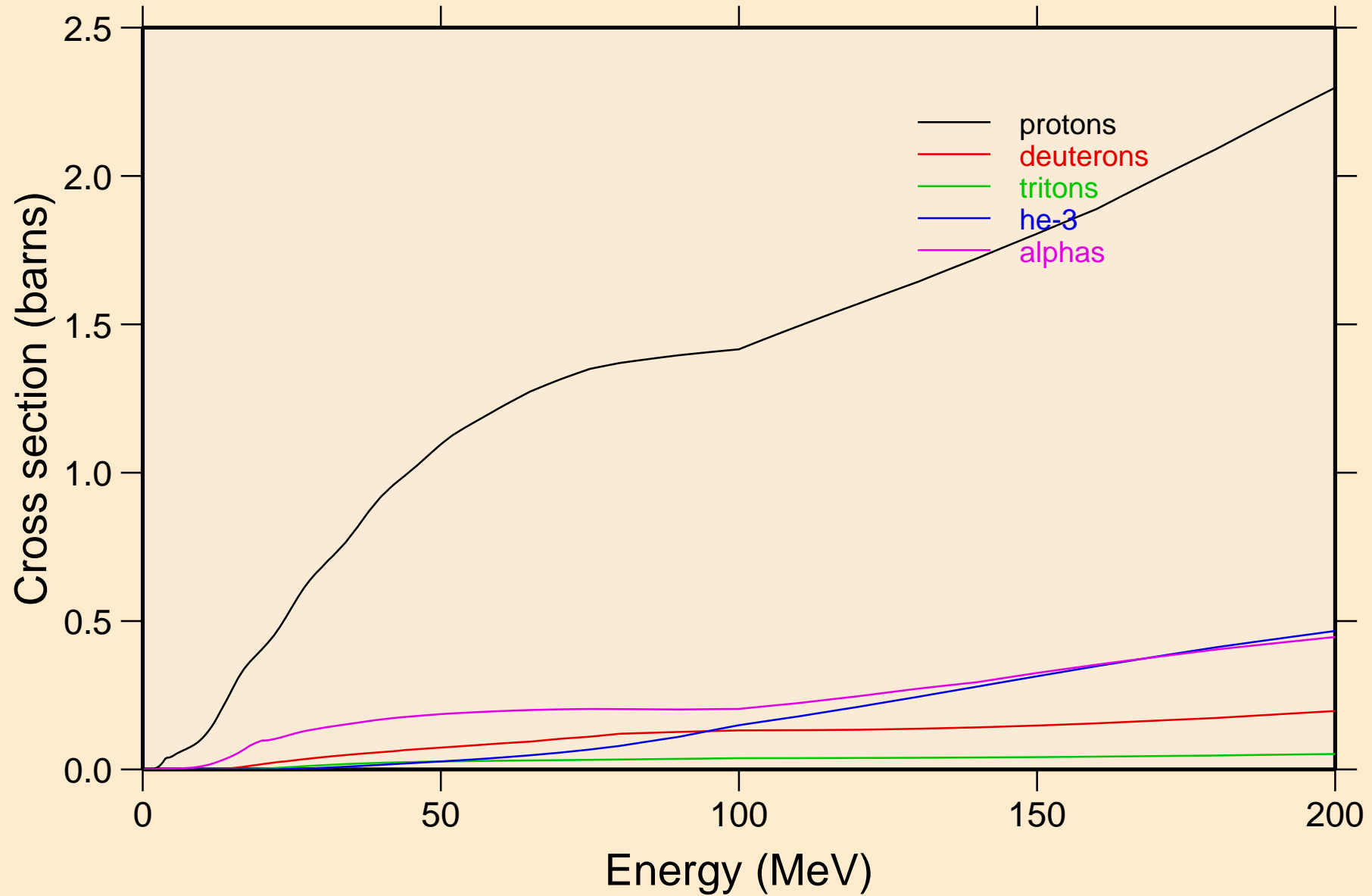
# HF164 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

## Recoil Heating



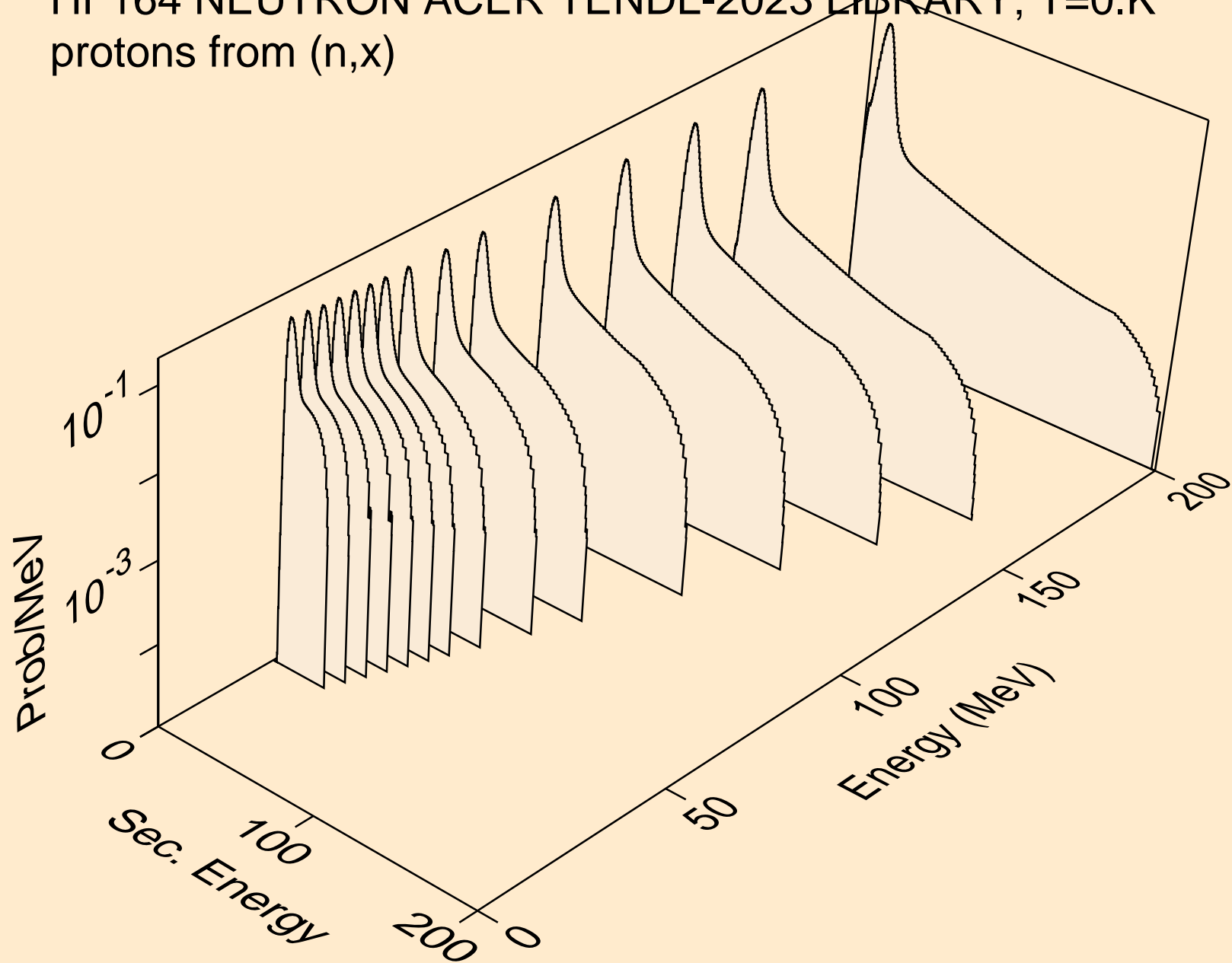
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## Particle production cross sections

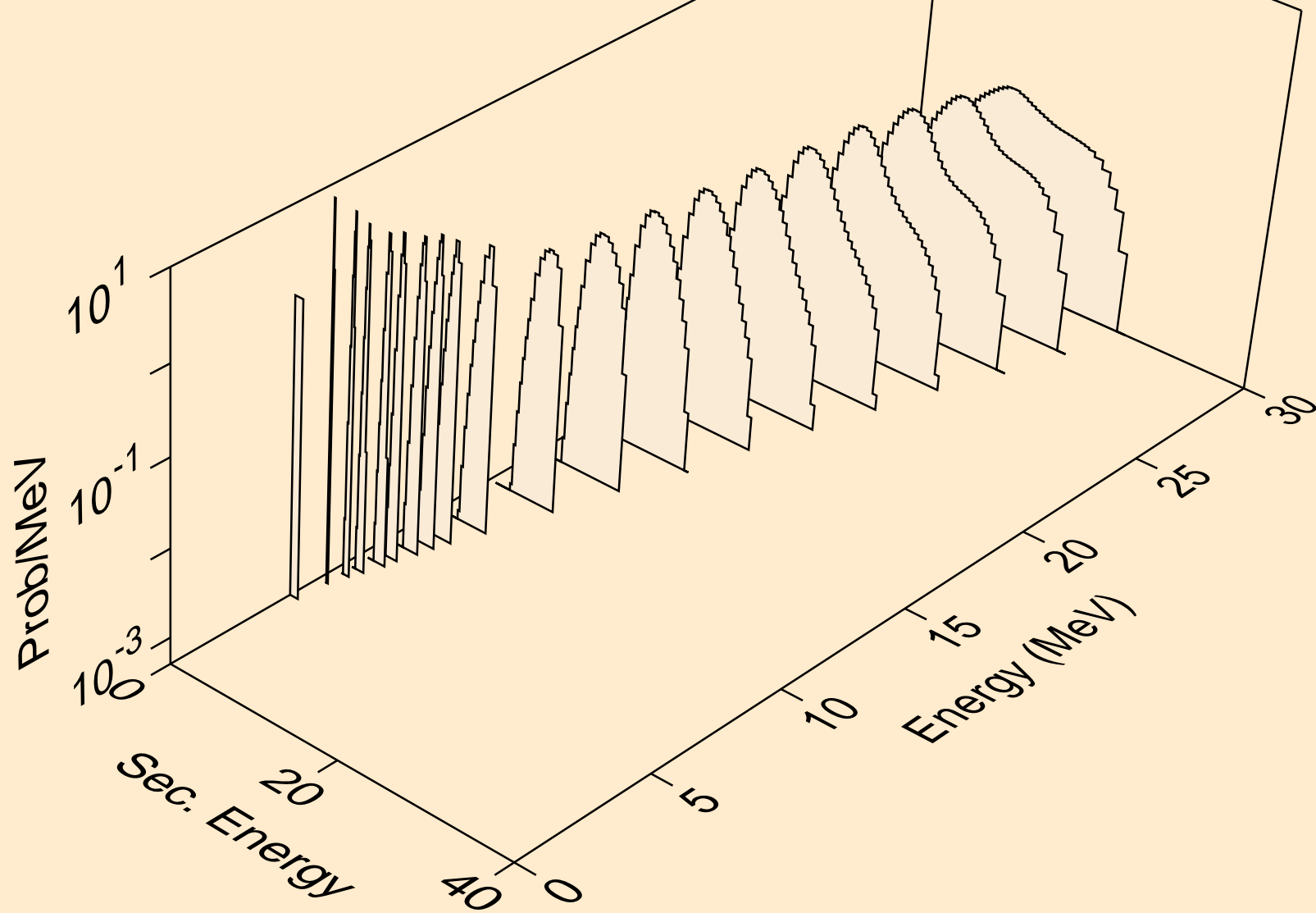




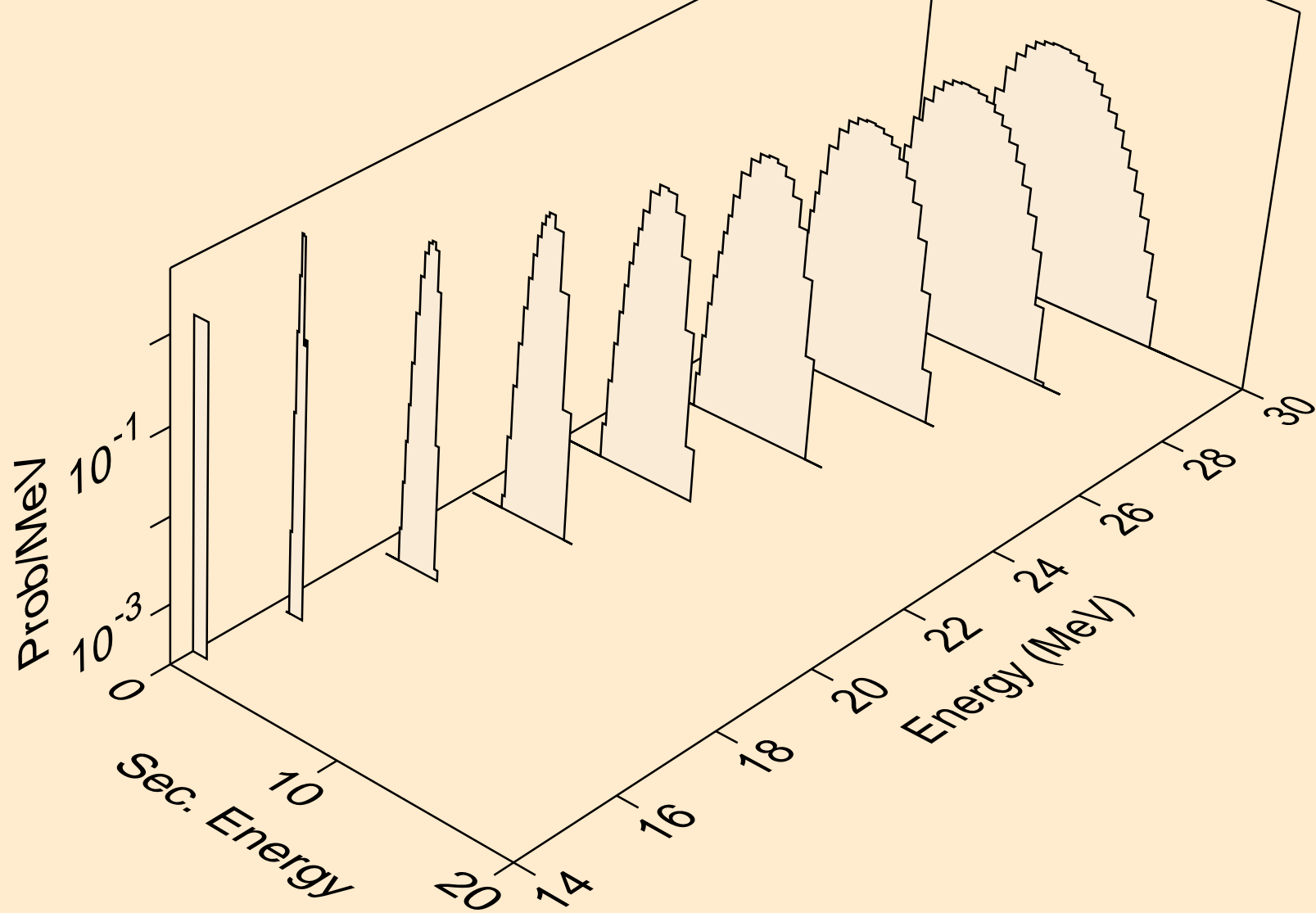
HF164 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
protons from (n,x)



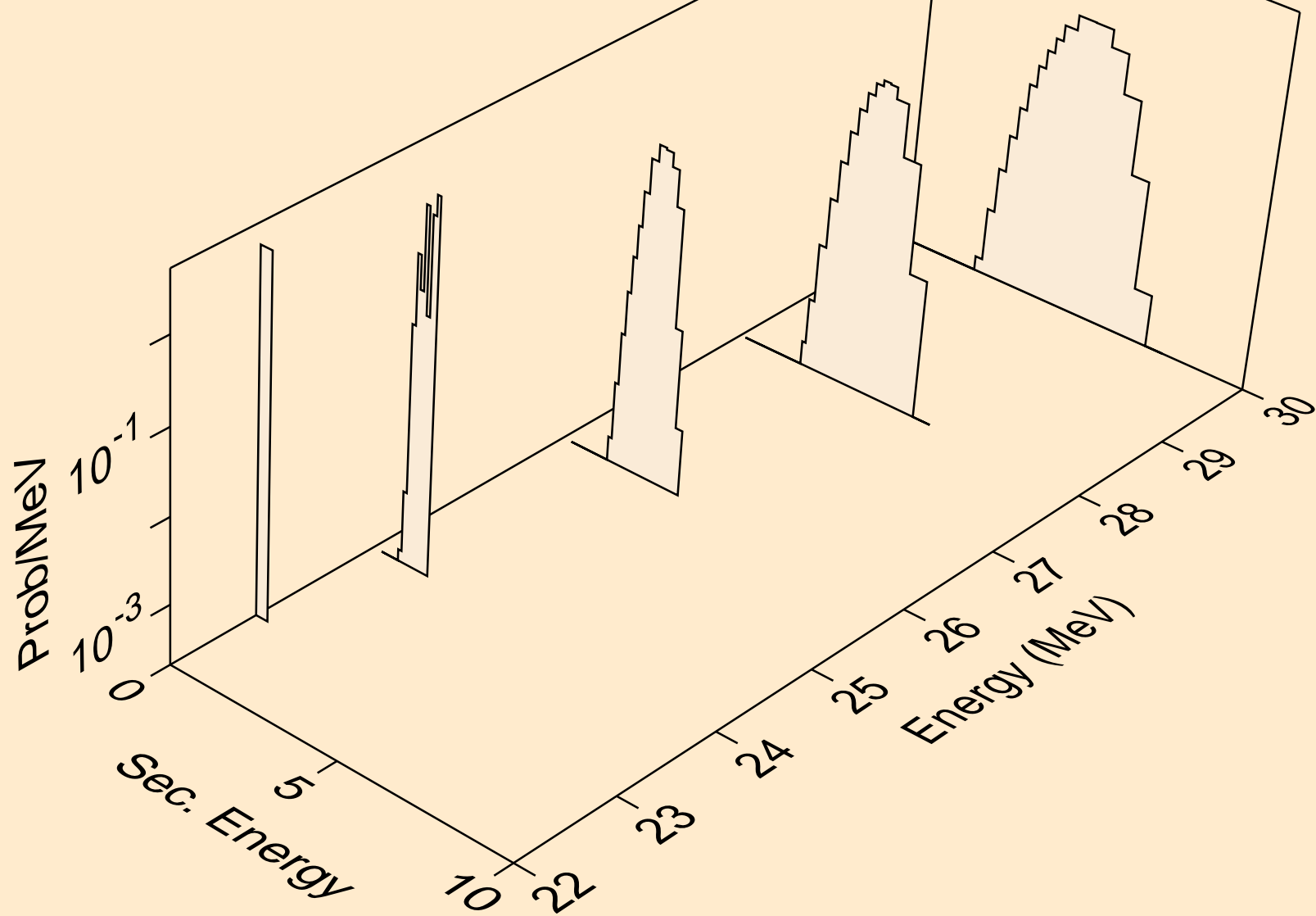
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protons from (n,n\*)p



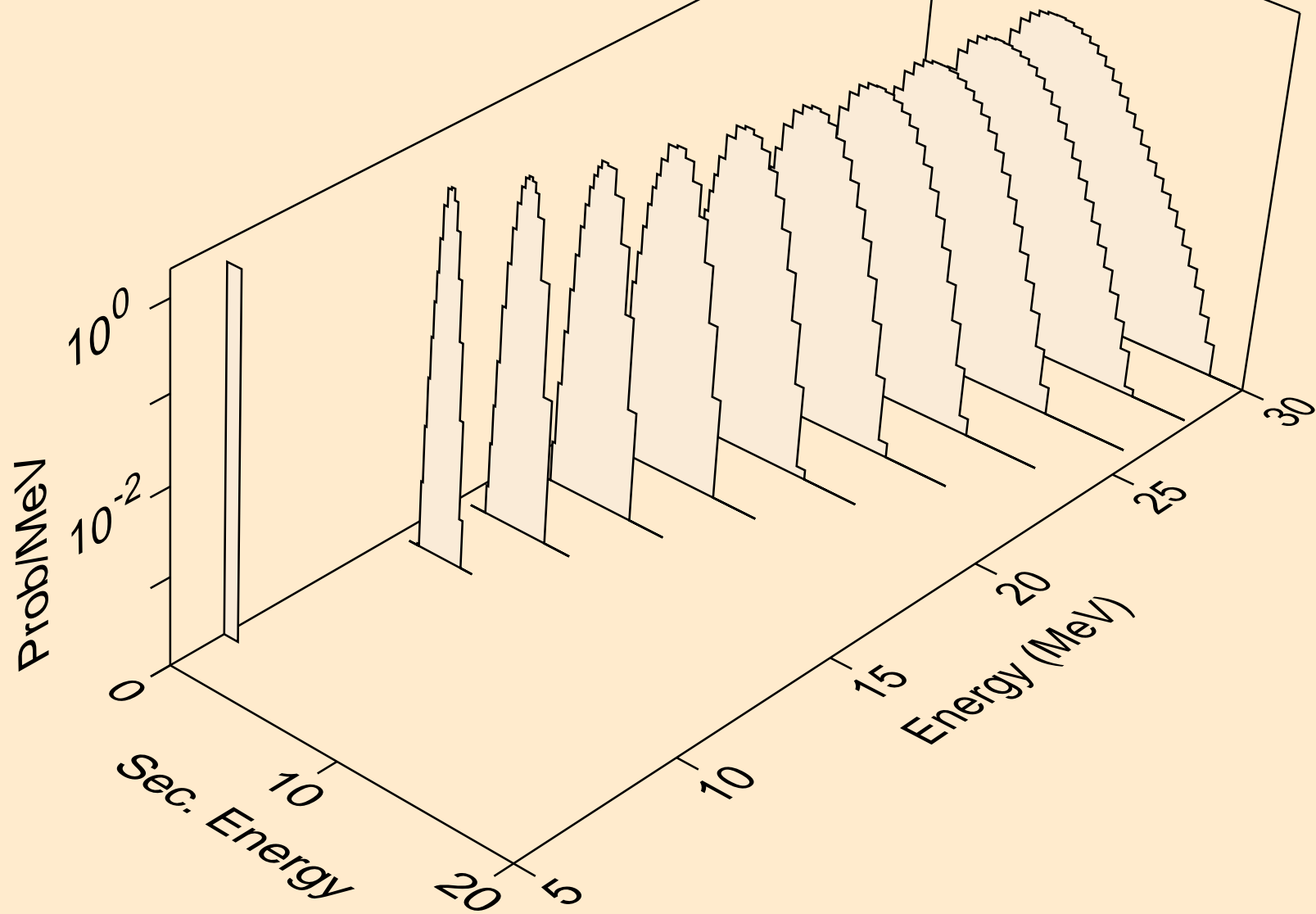
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protons from (n,2np)



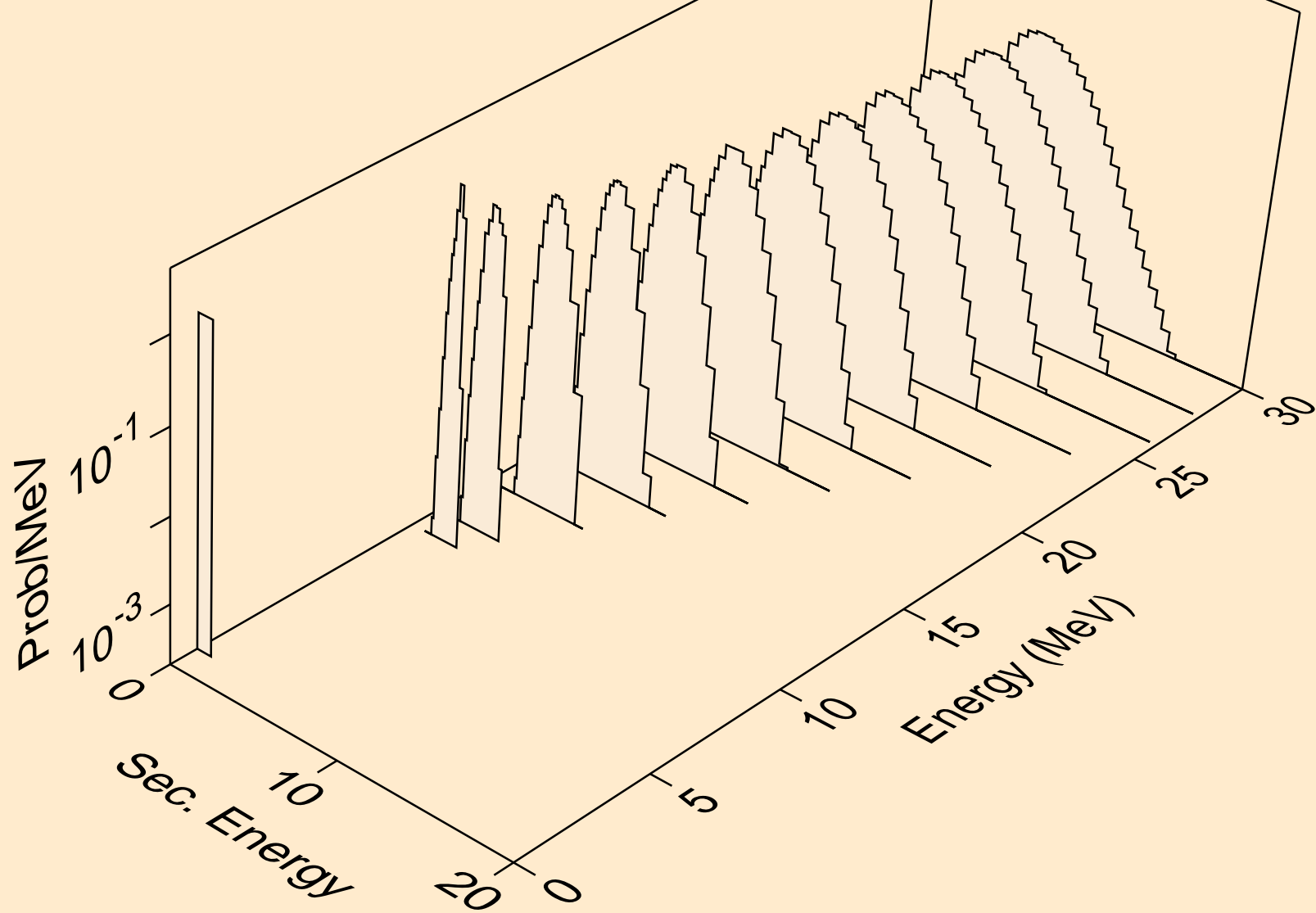
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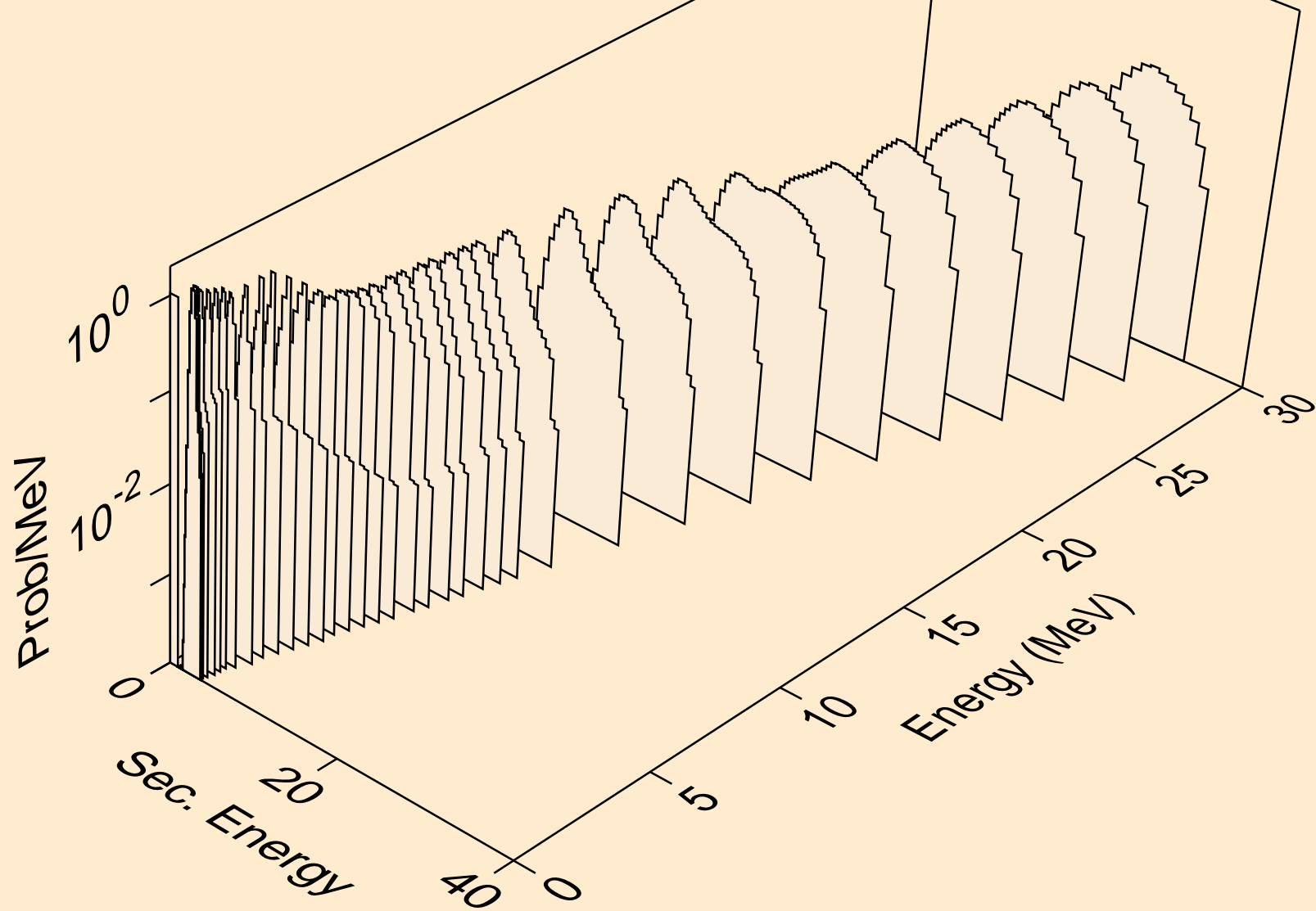
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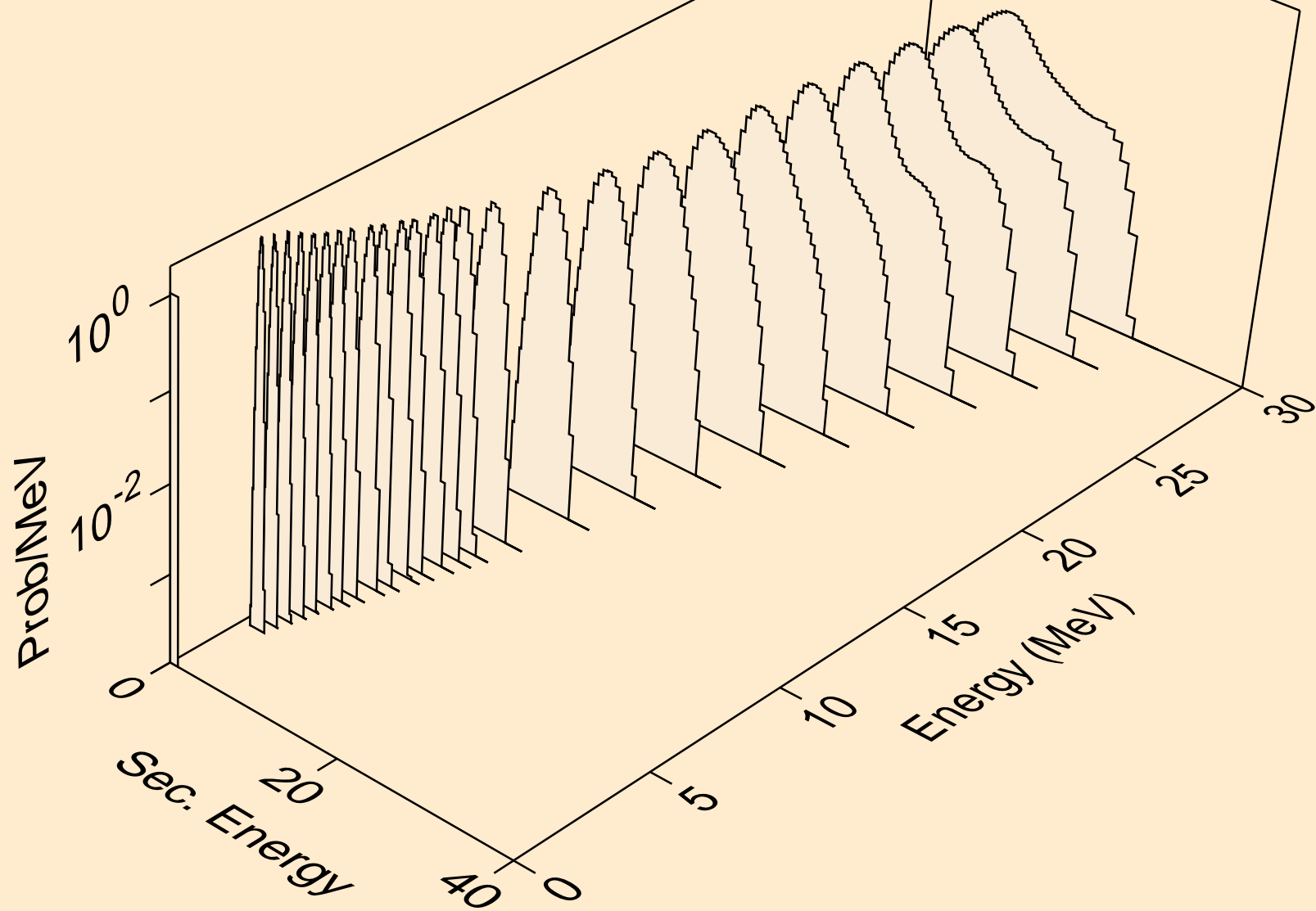
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protons from (n,npa)



HF164 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
protons from (n,p)

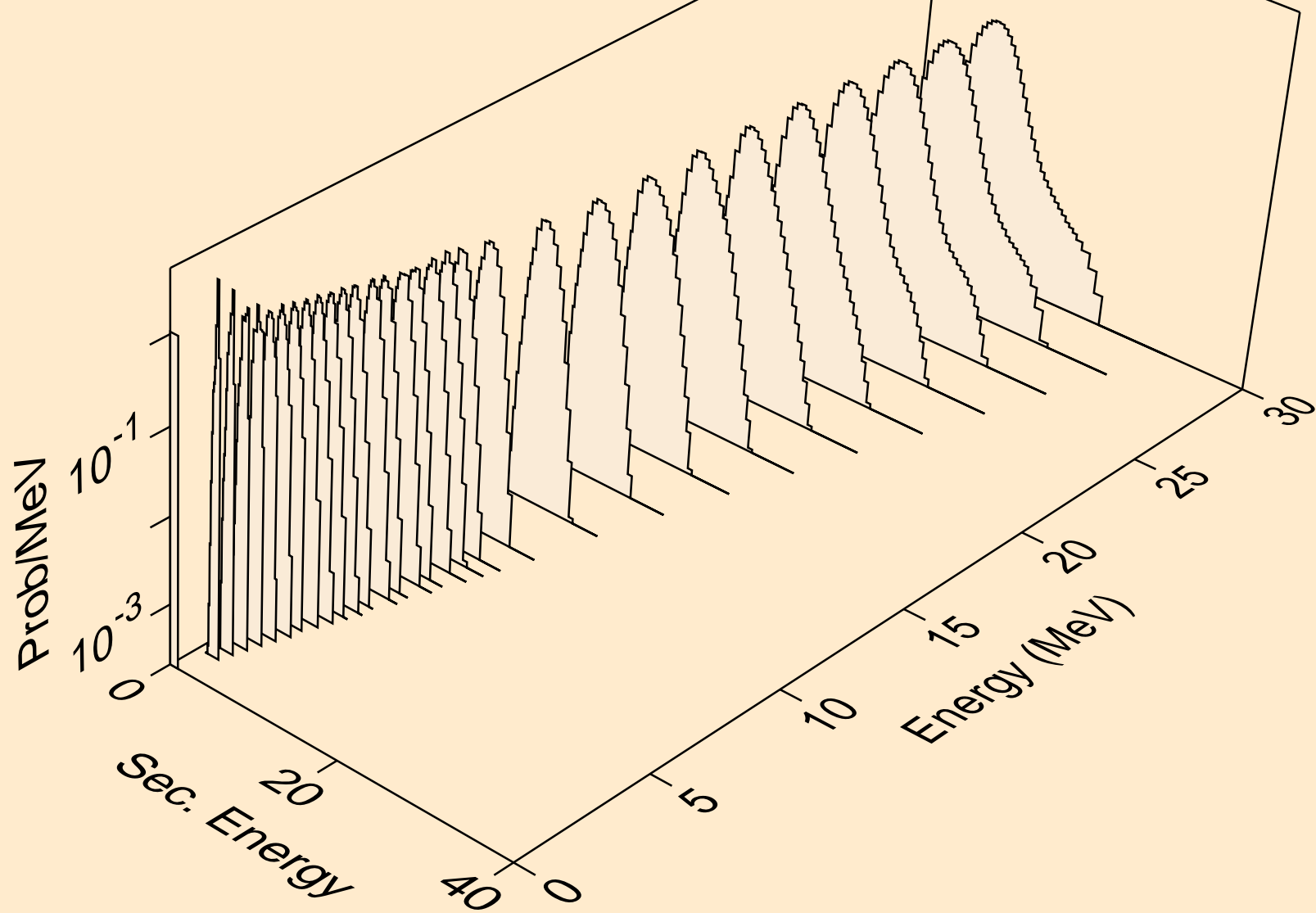


HF164 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
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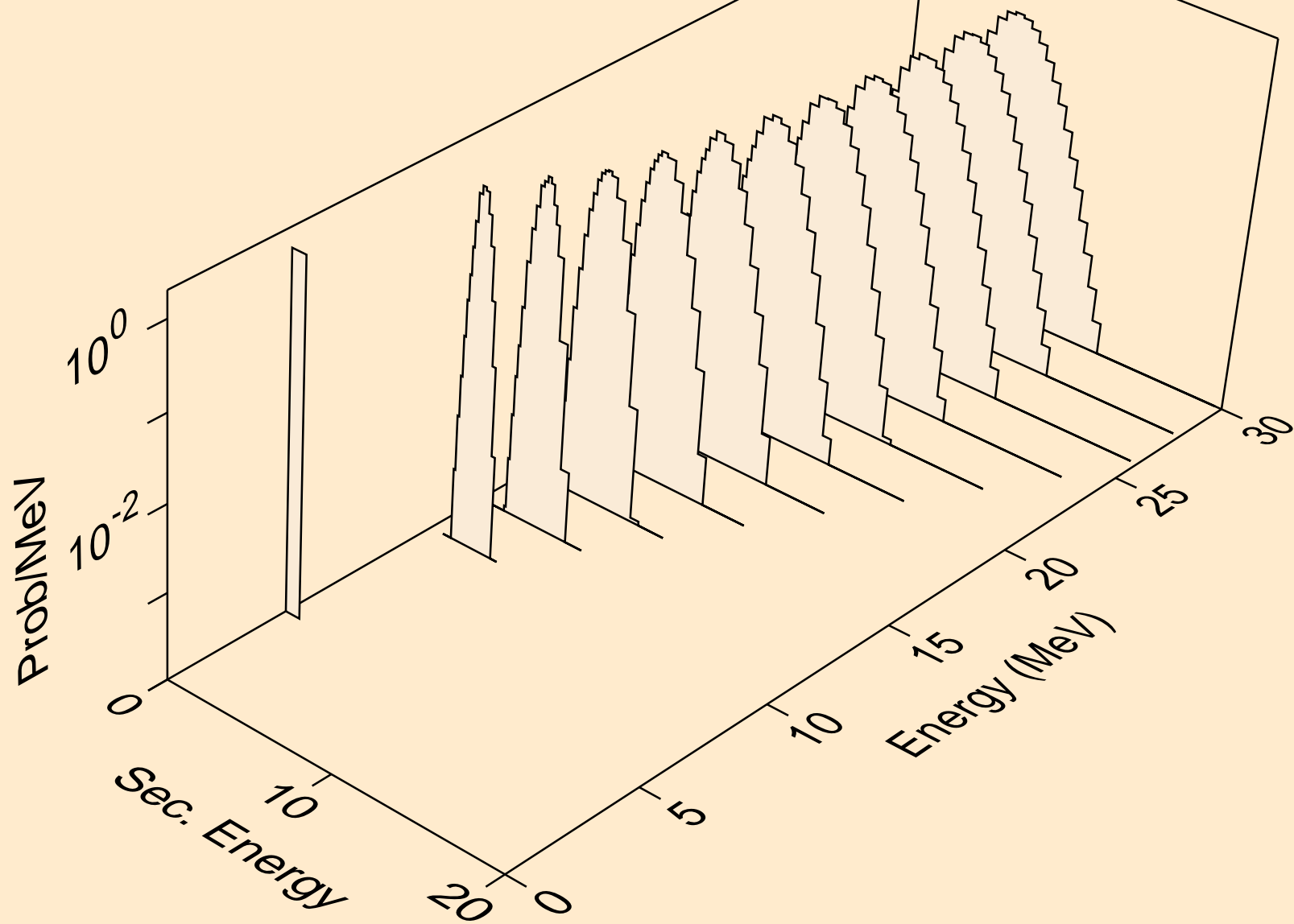




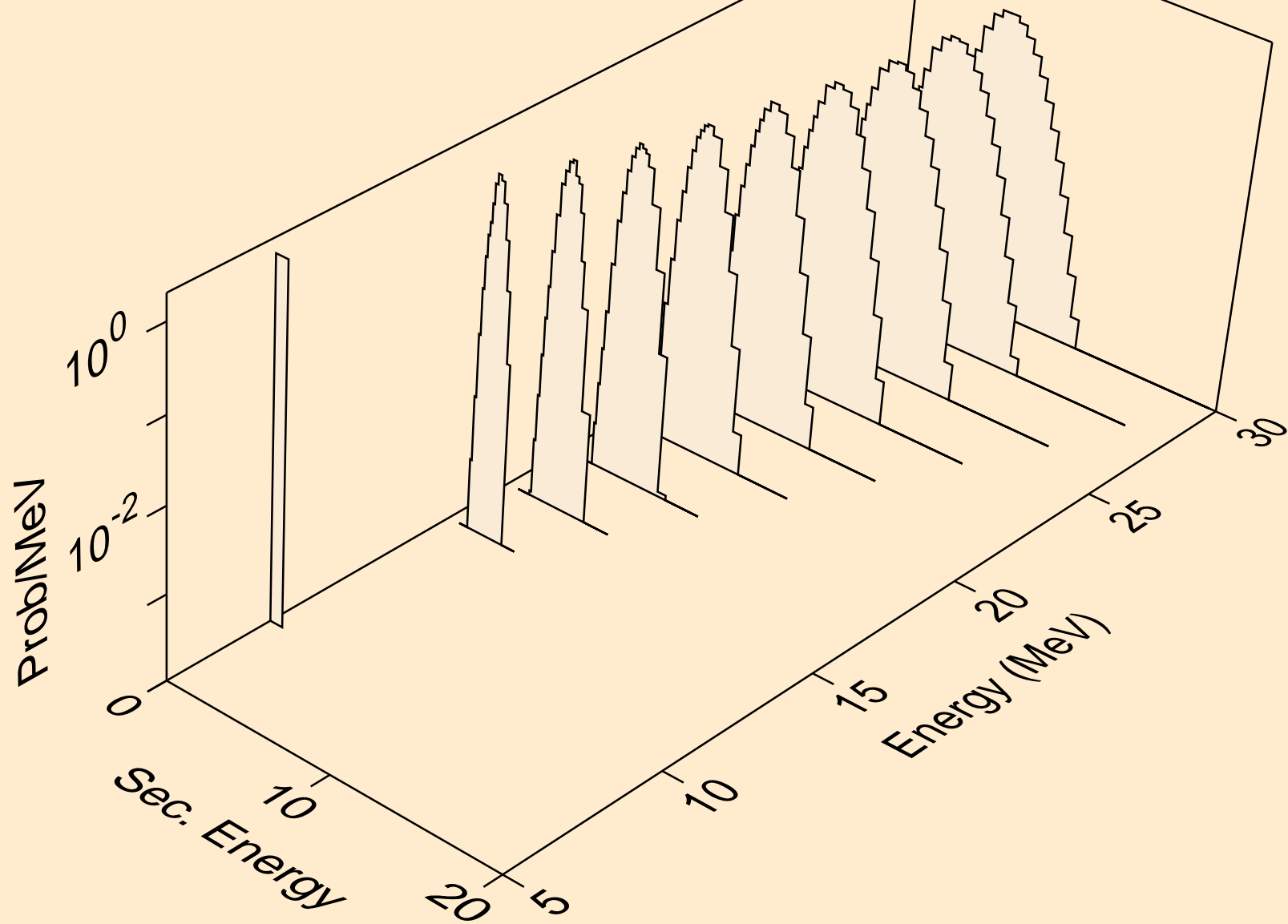
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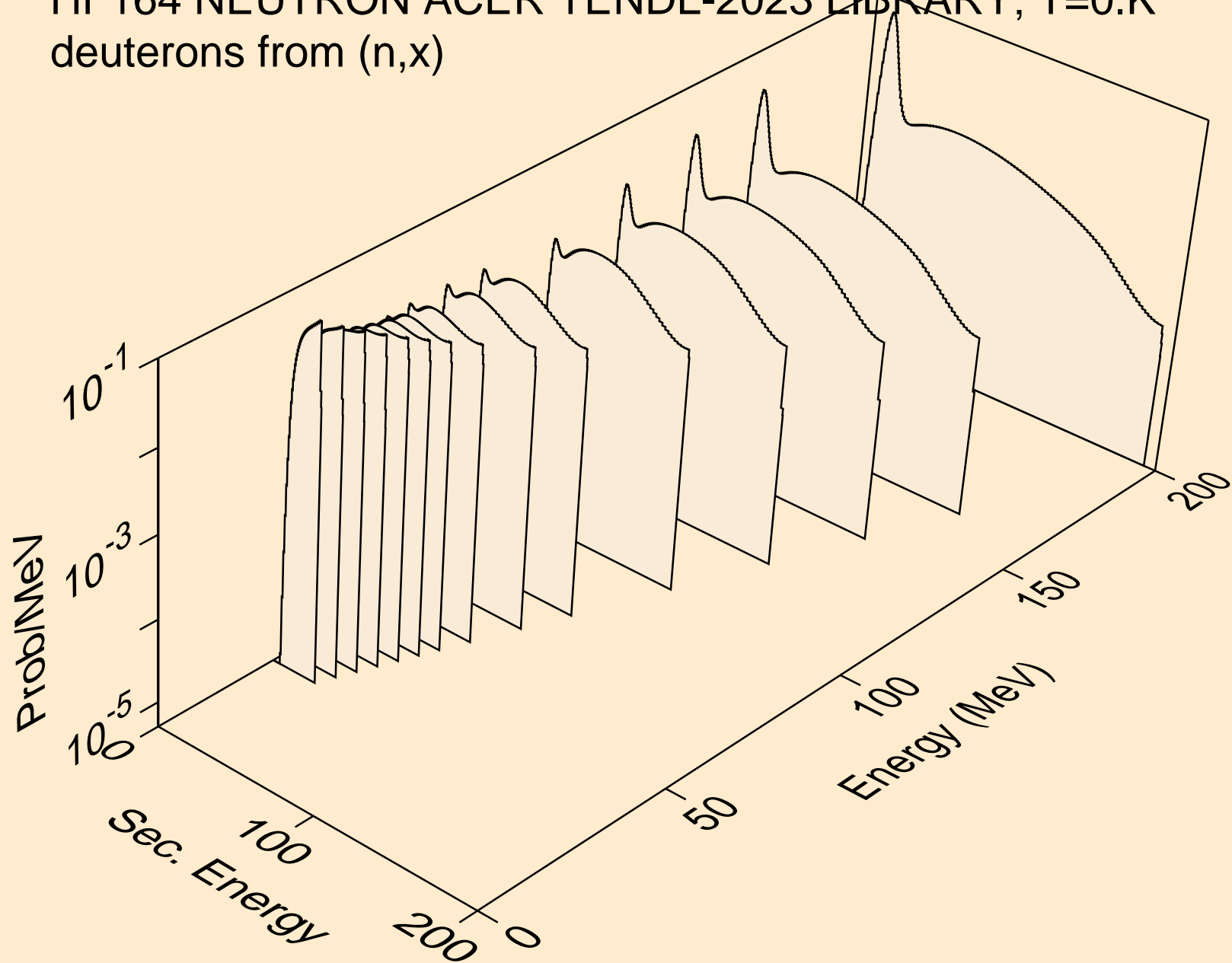
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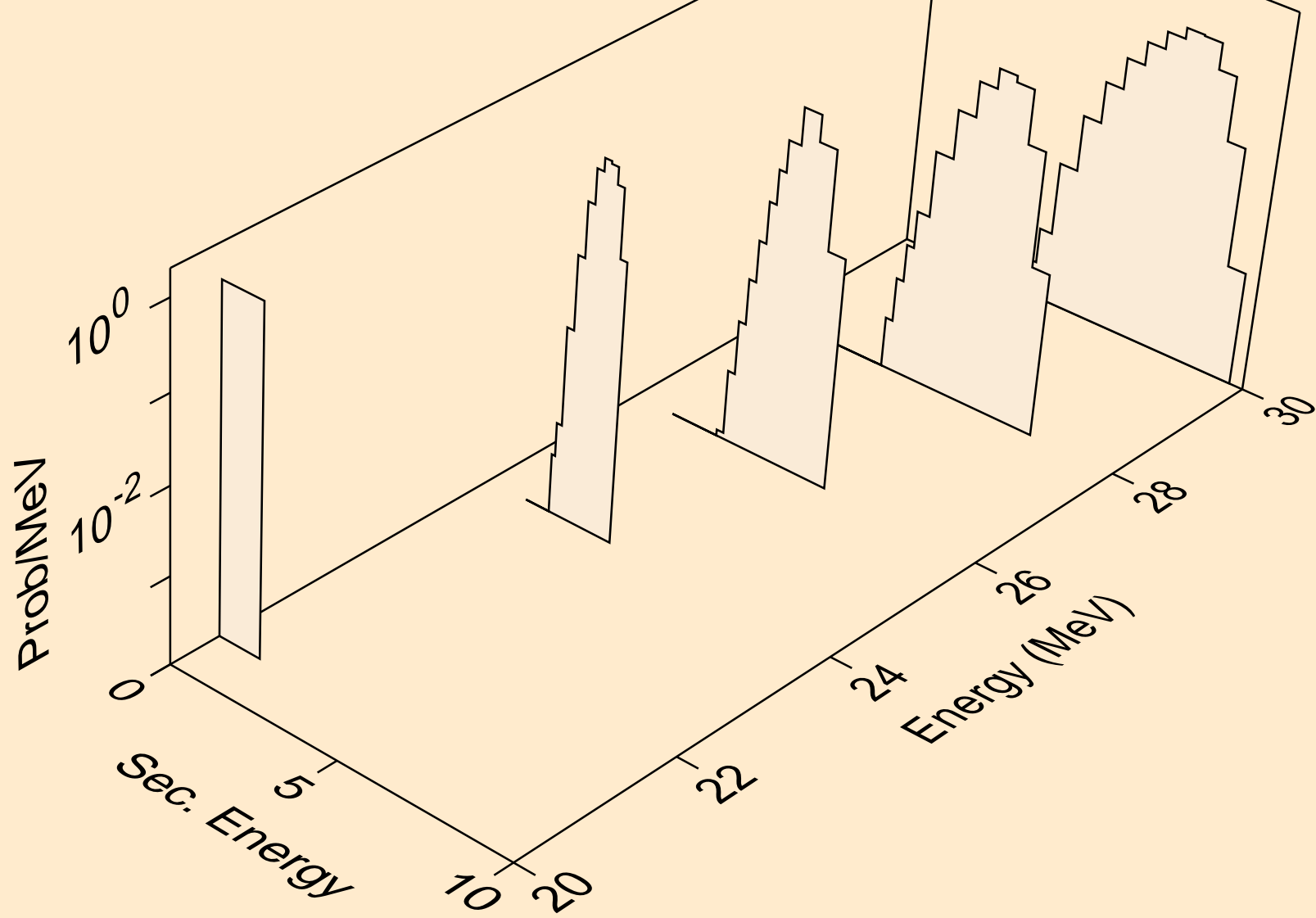
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protons from (n,pt)



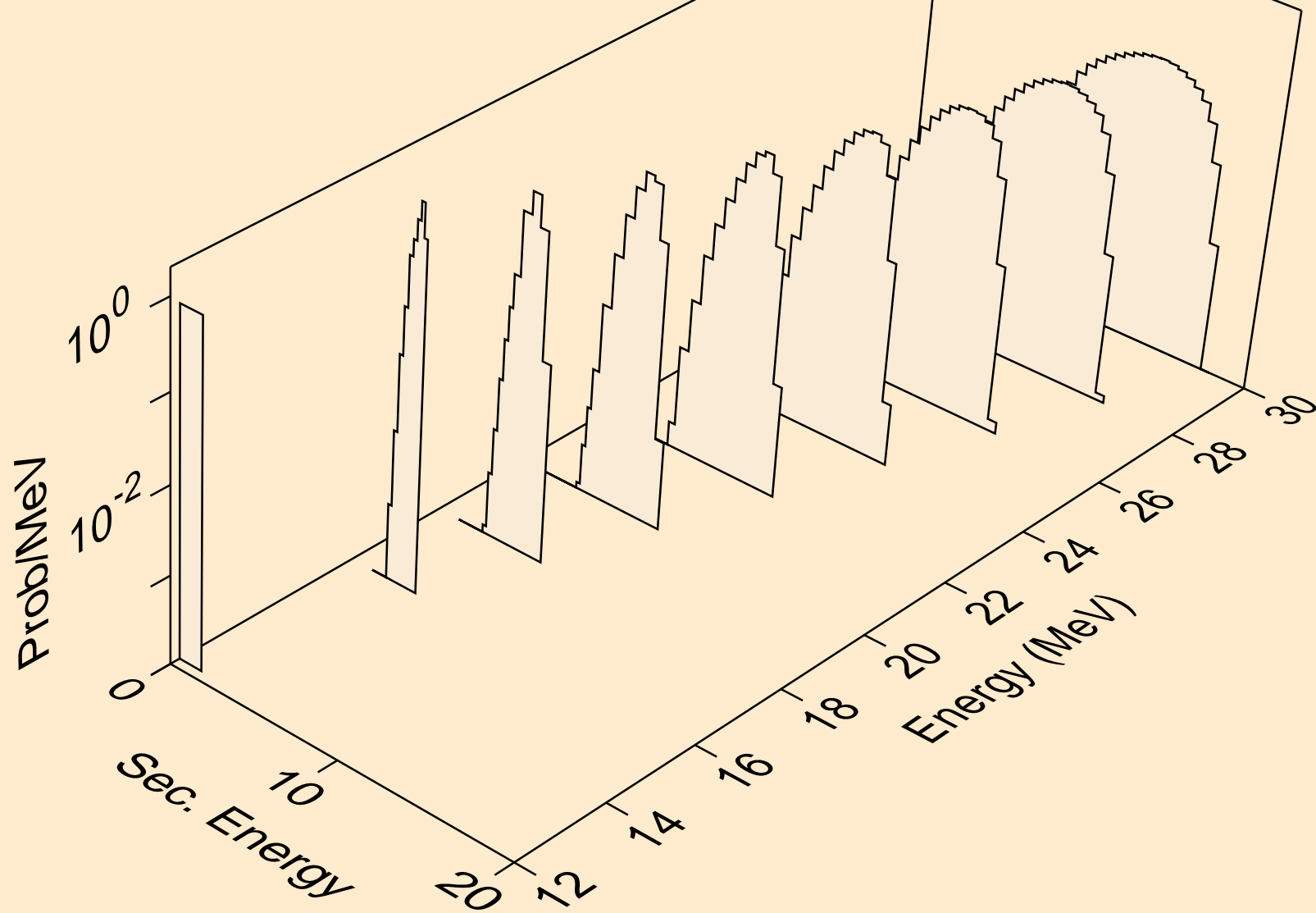
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deuterons from (n,x)



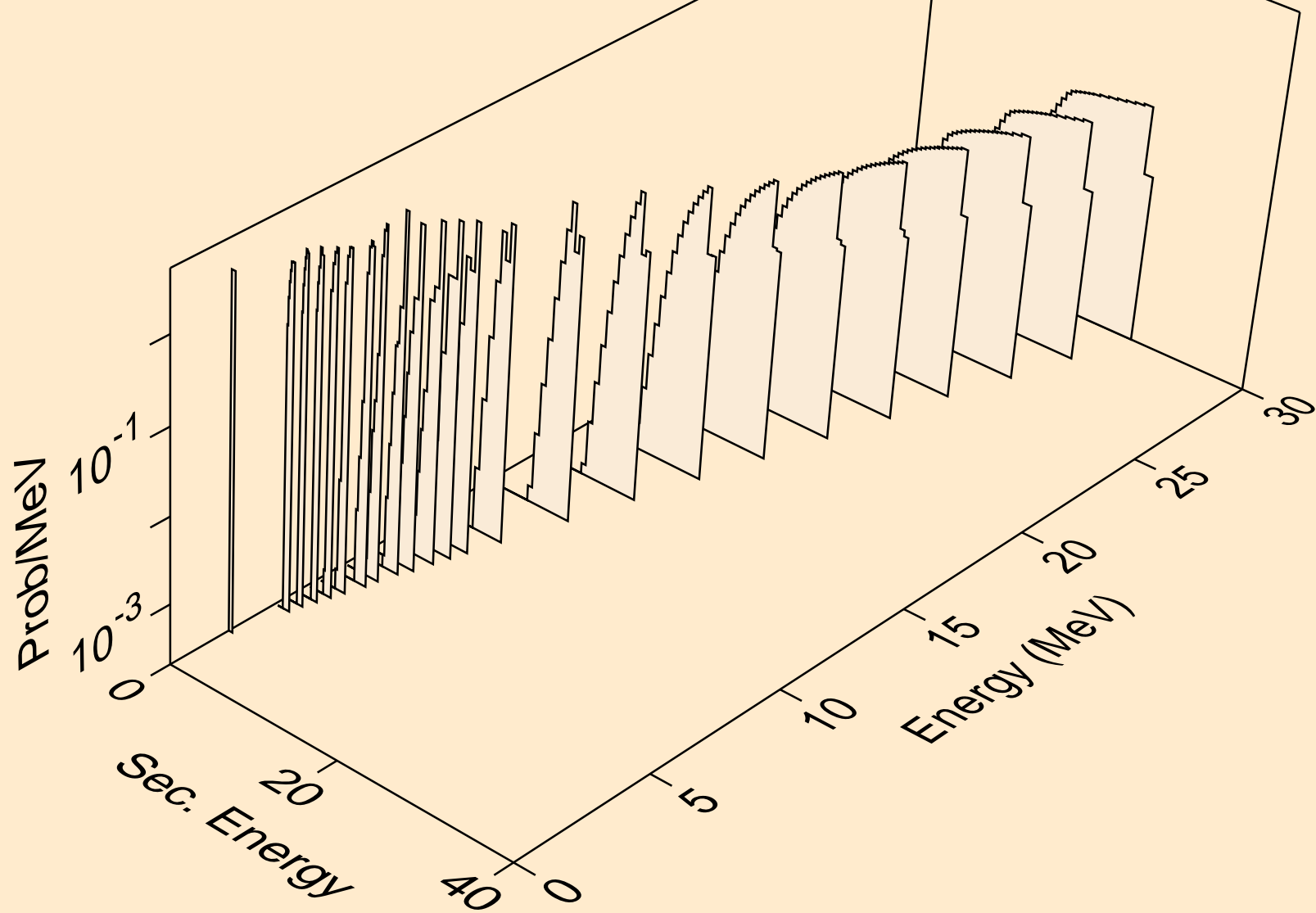
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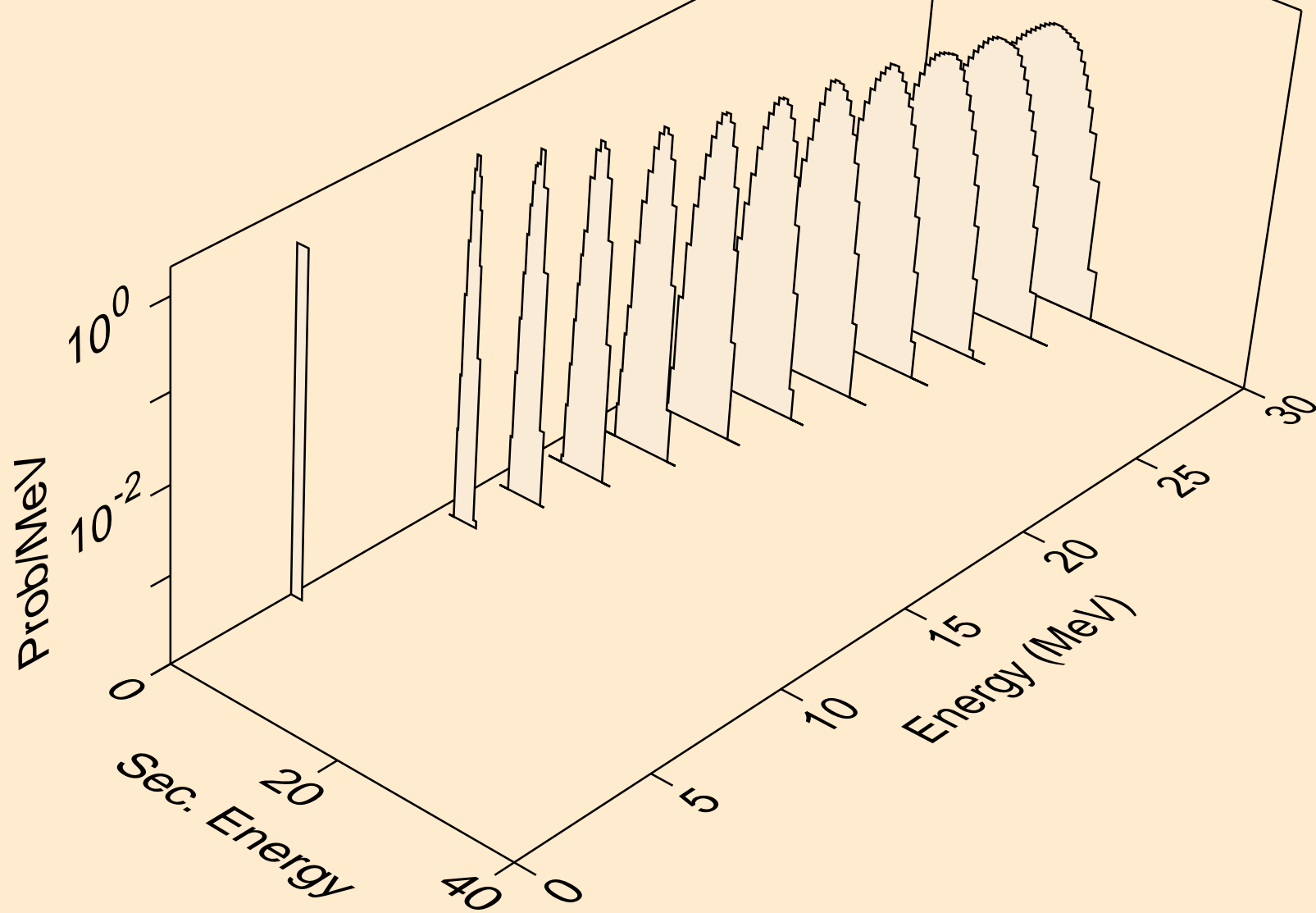
HF164 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
deuterons from (n,n\*)d



HF164 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
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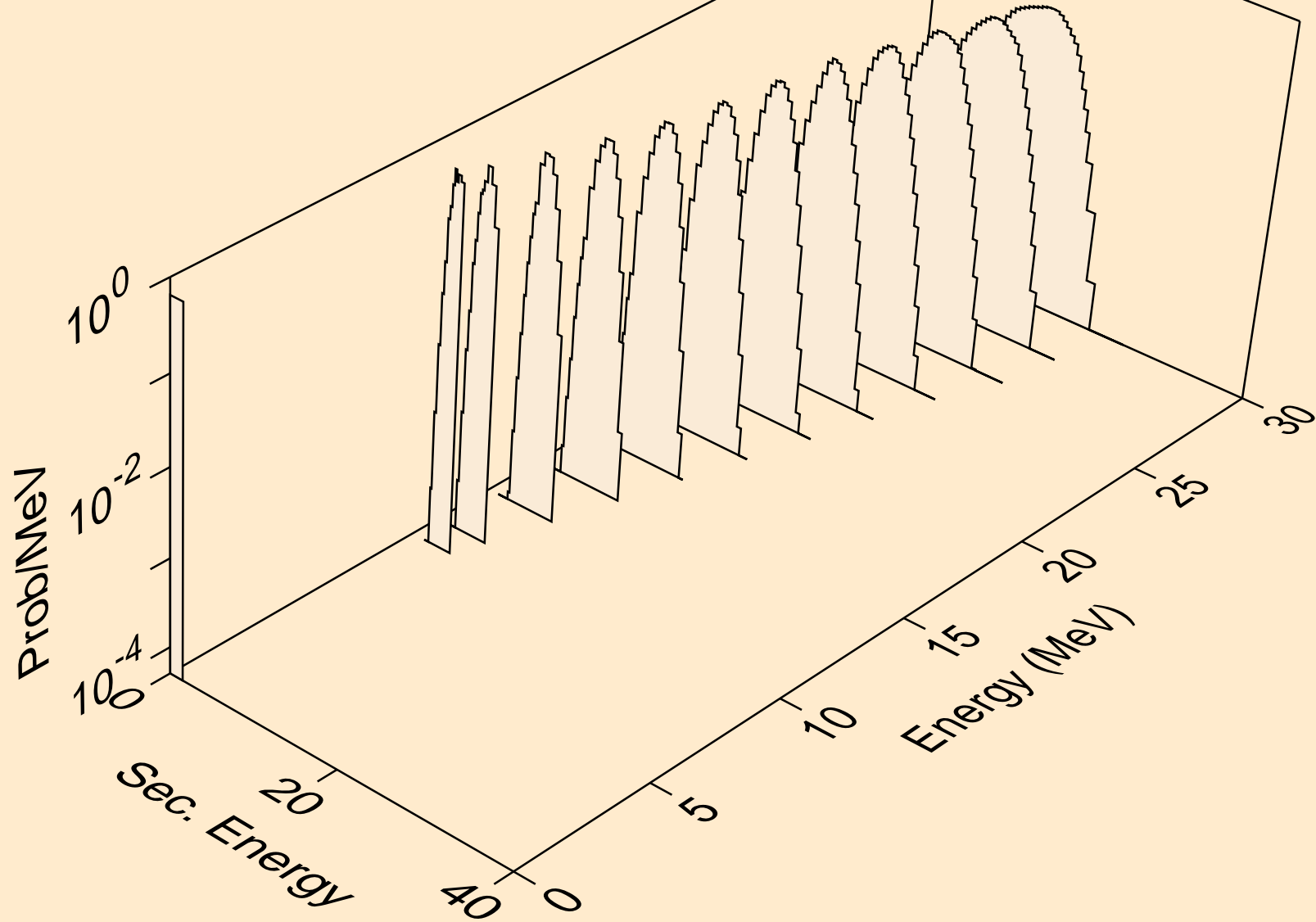


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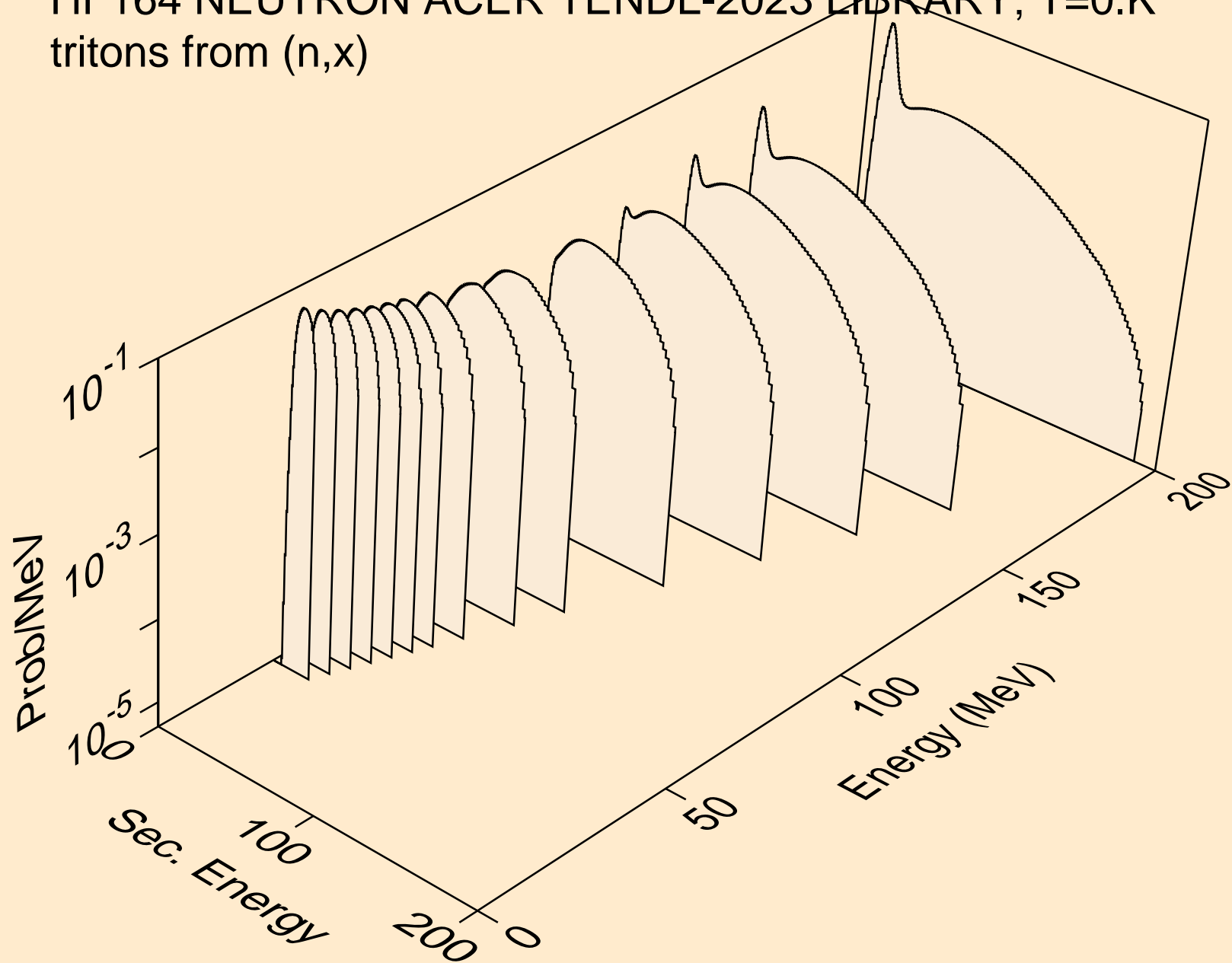




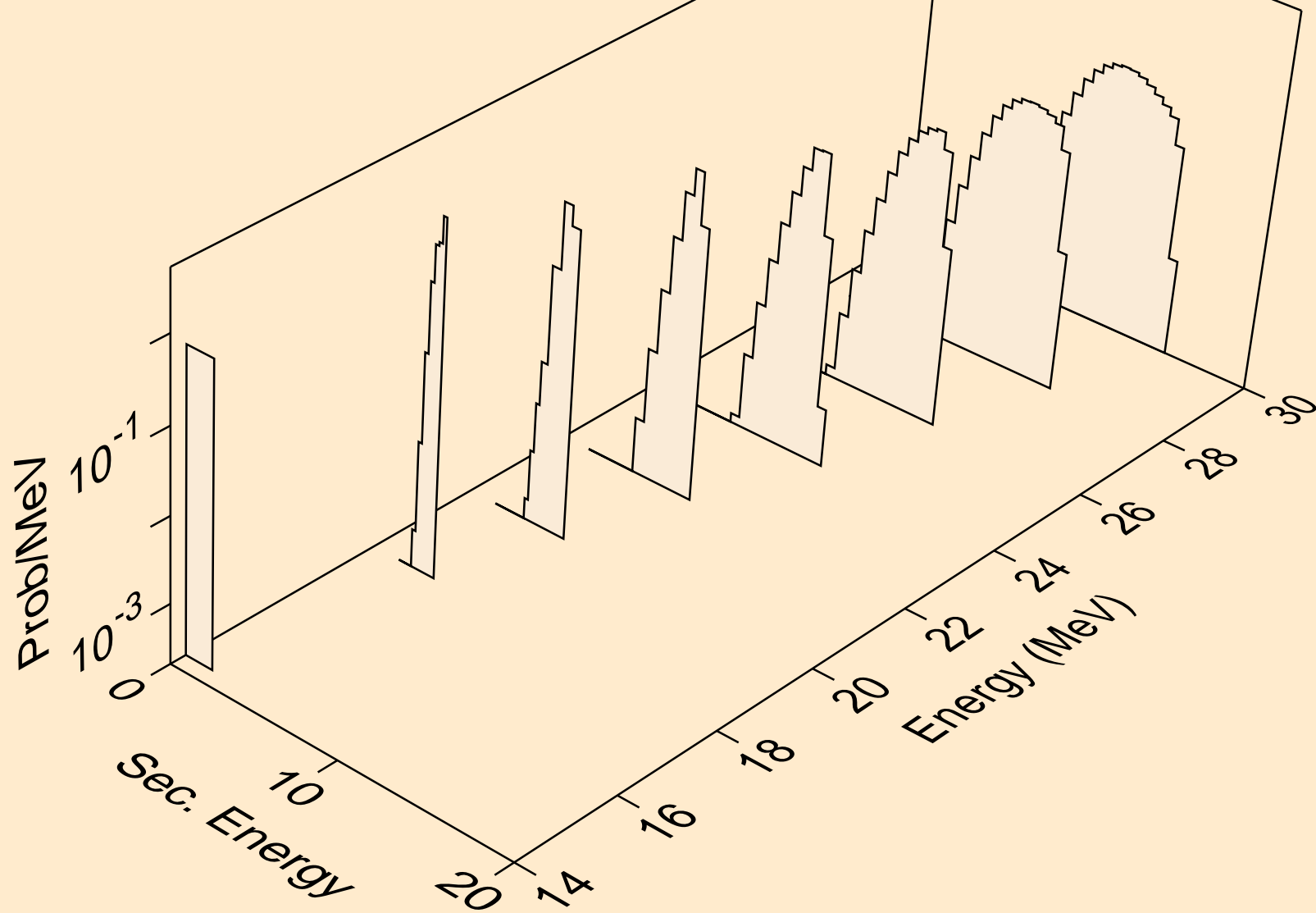
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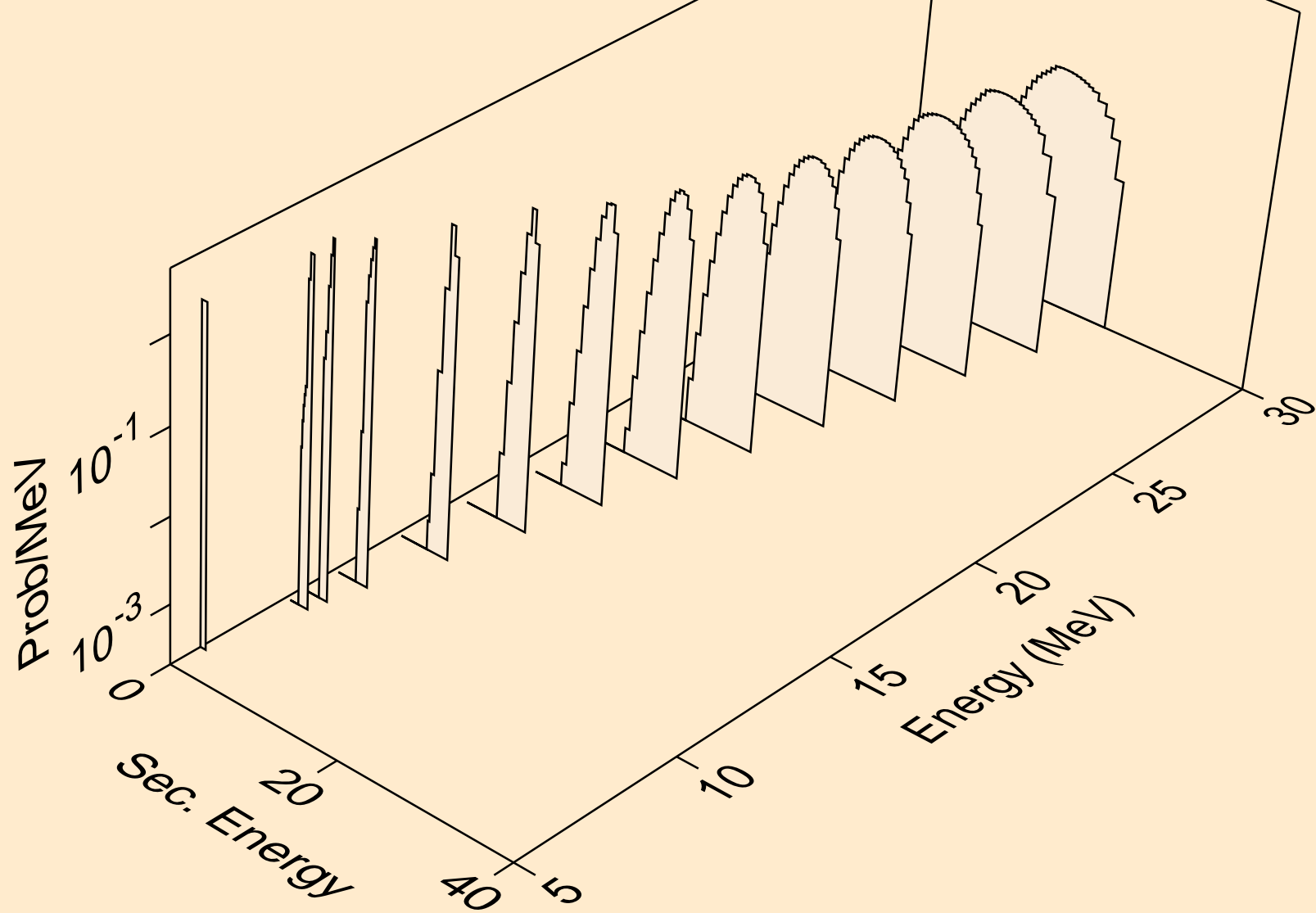
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tritons from (n,x)



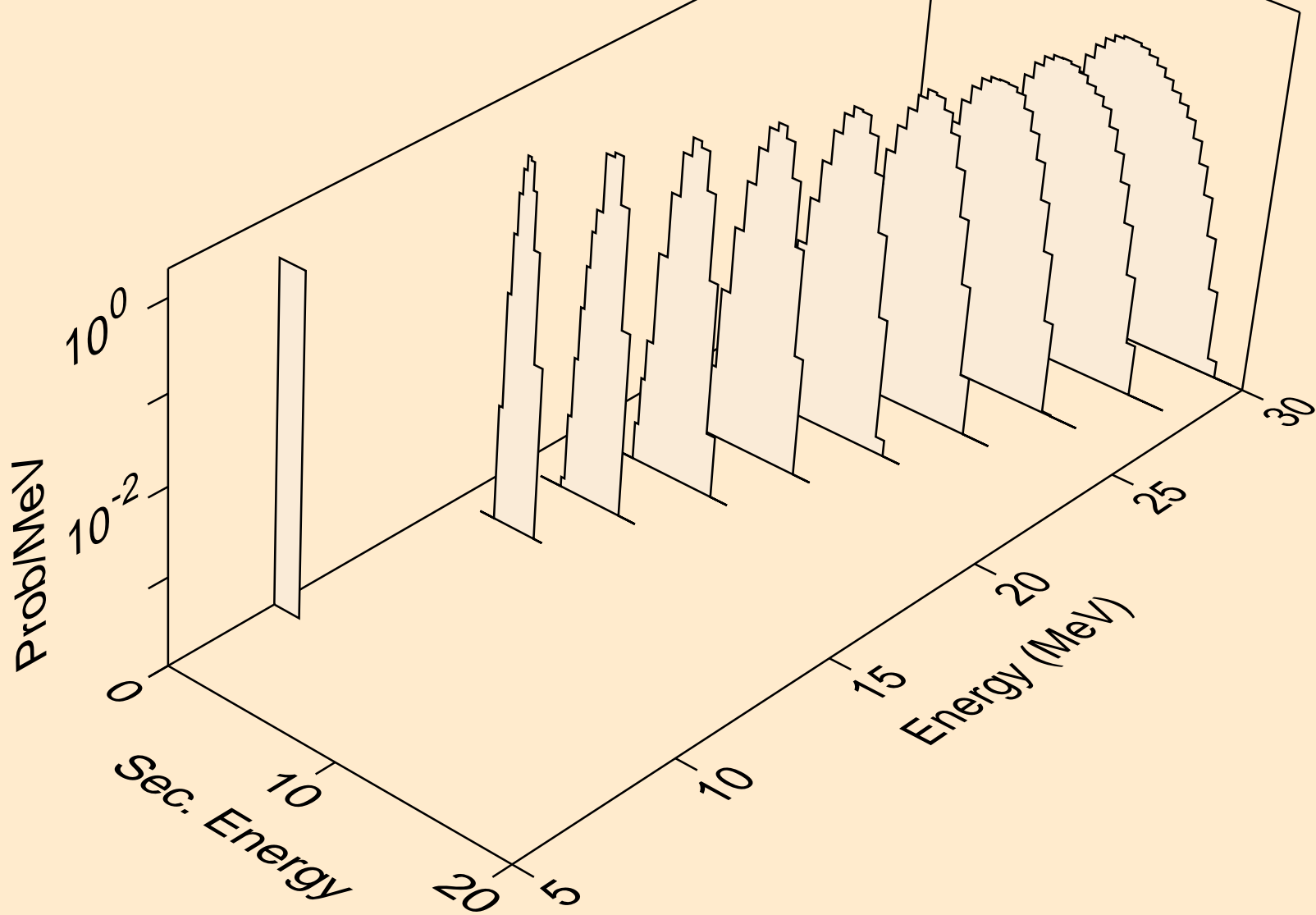
HF164 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
tritons from (n,n\*)t



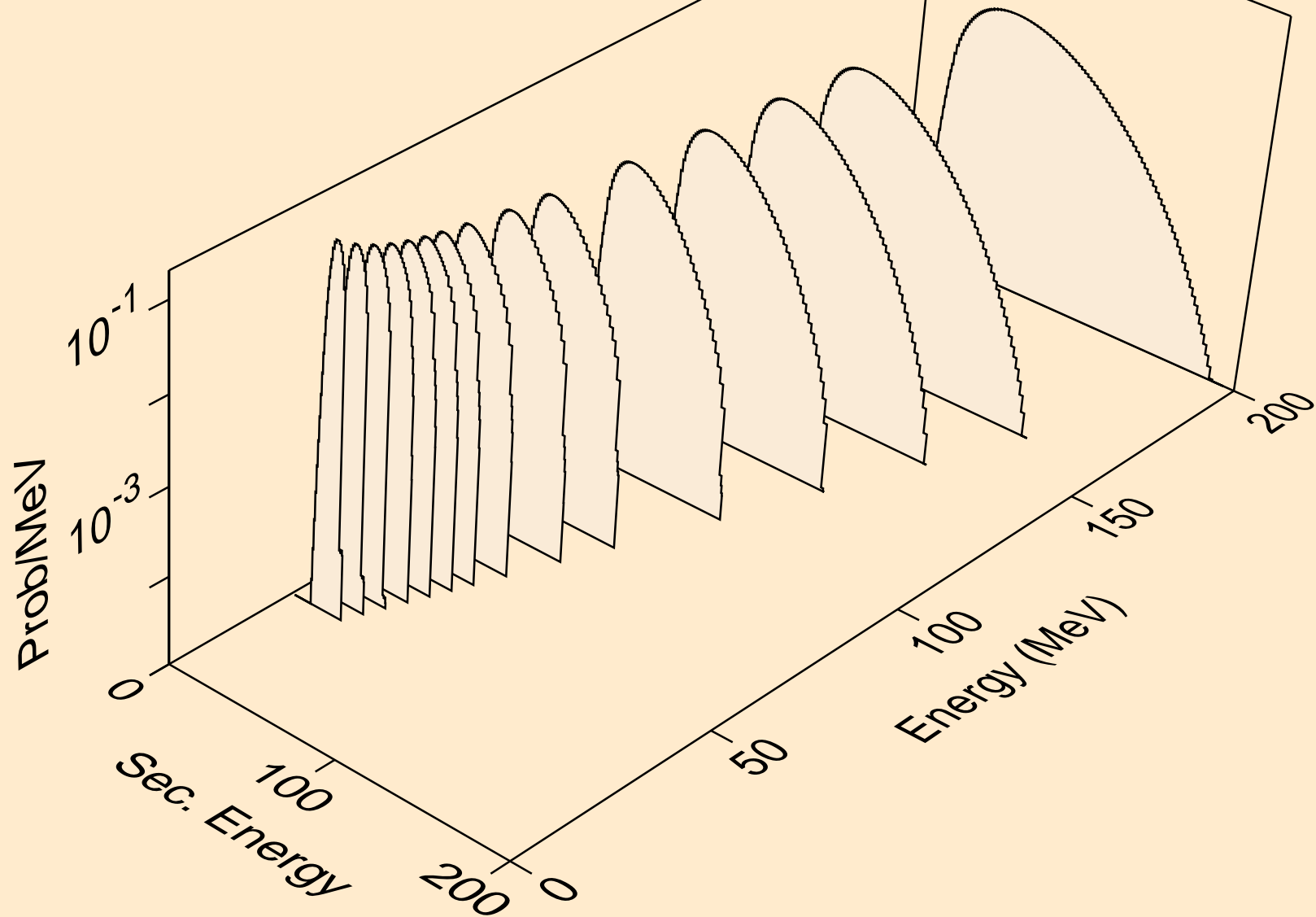
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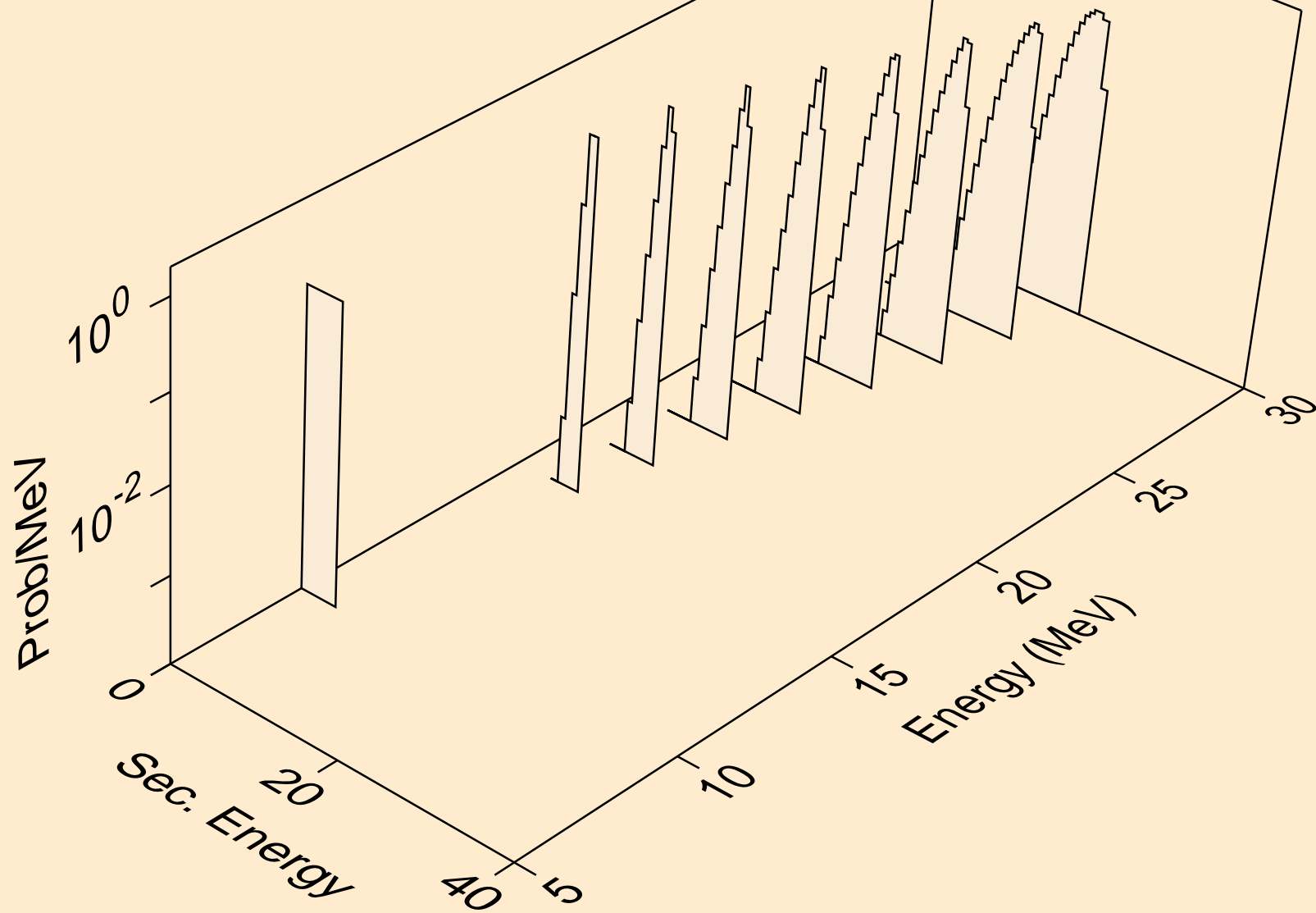
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tritons from (n,pt)



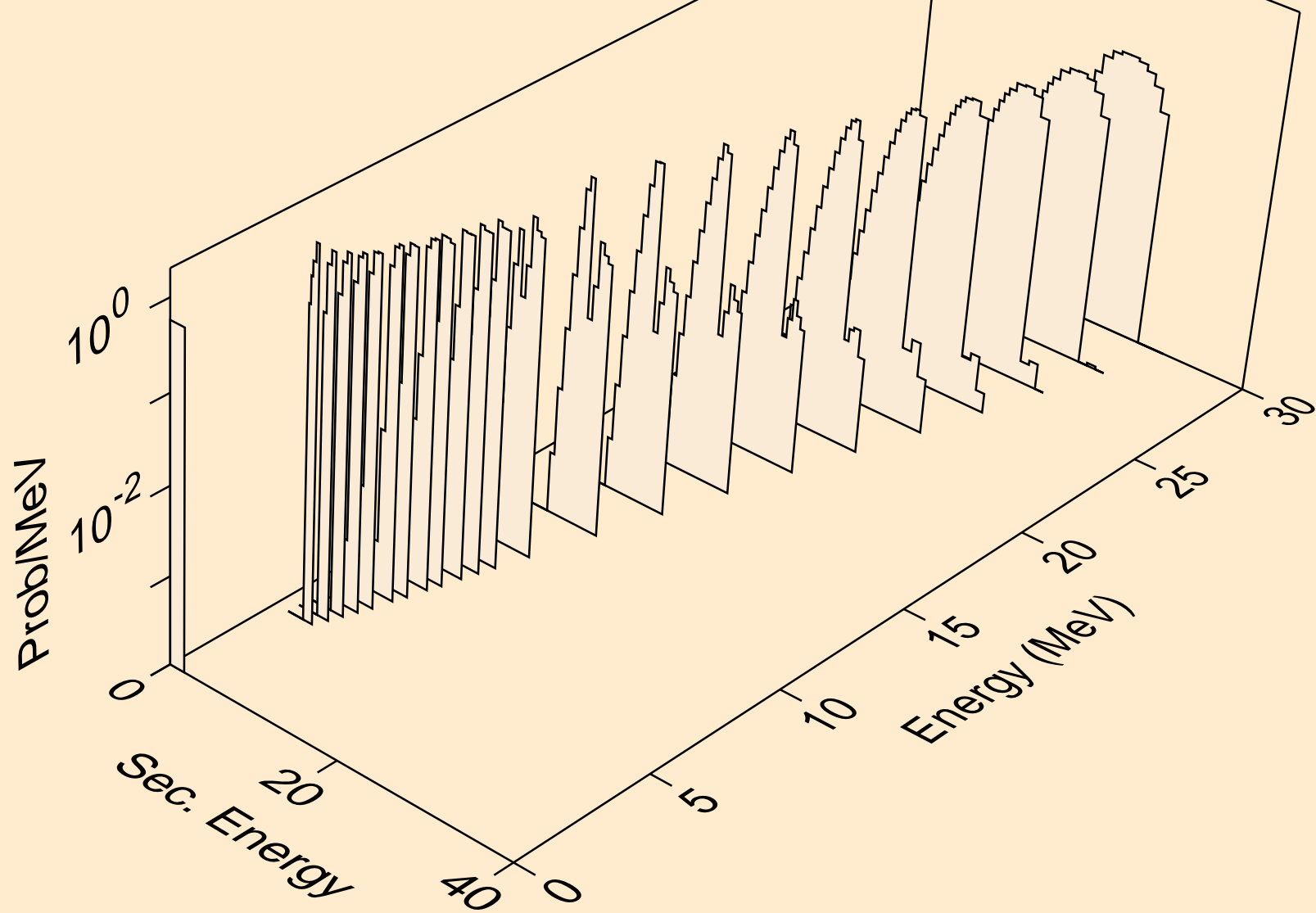
HF164 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
he3s from (n,x)



HF164 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
he3s from (n,n\*)he3

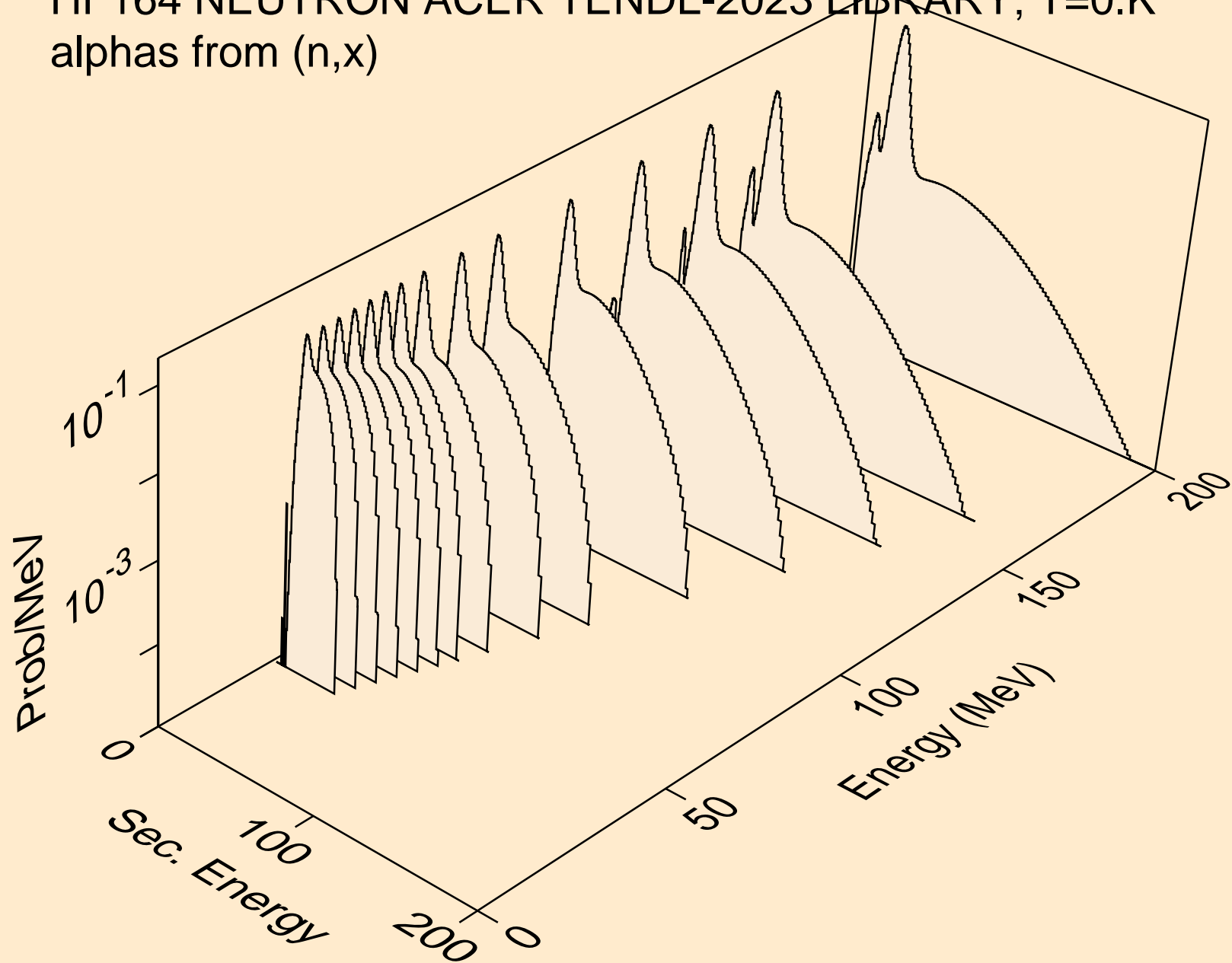


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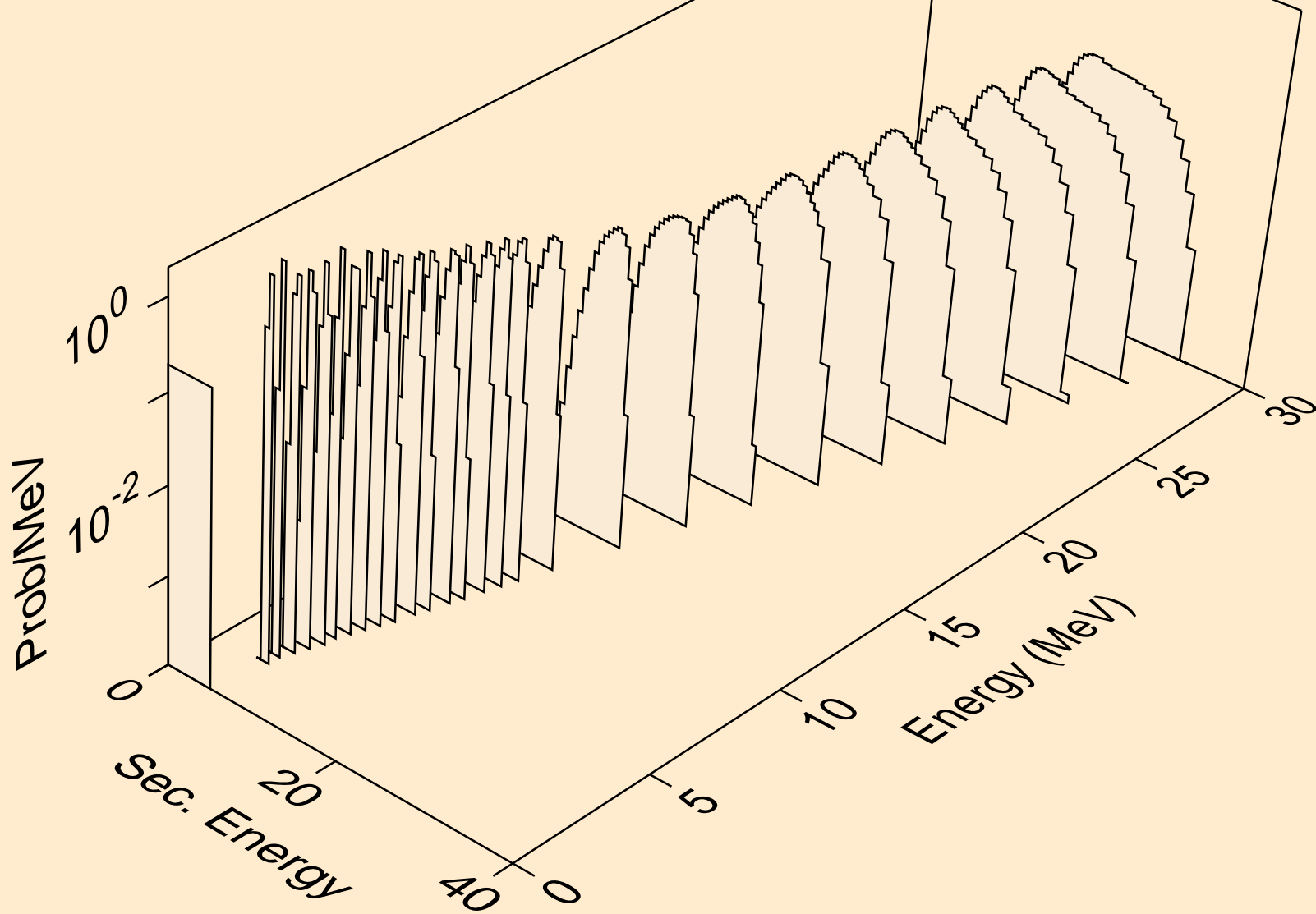




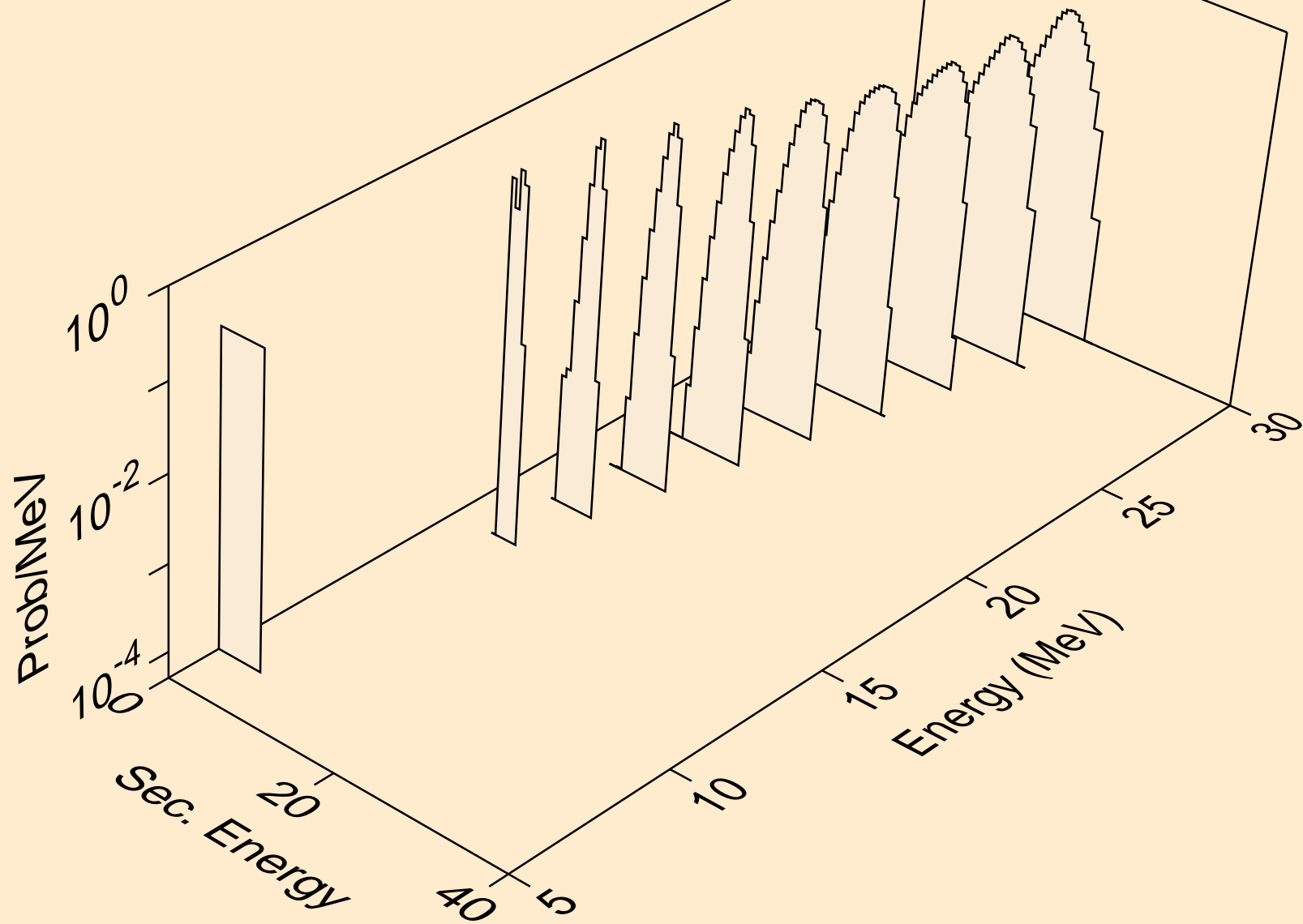
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alphas from (n,x)



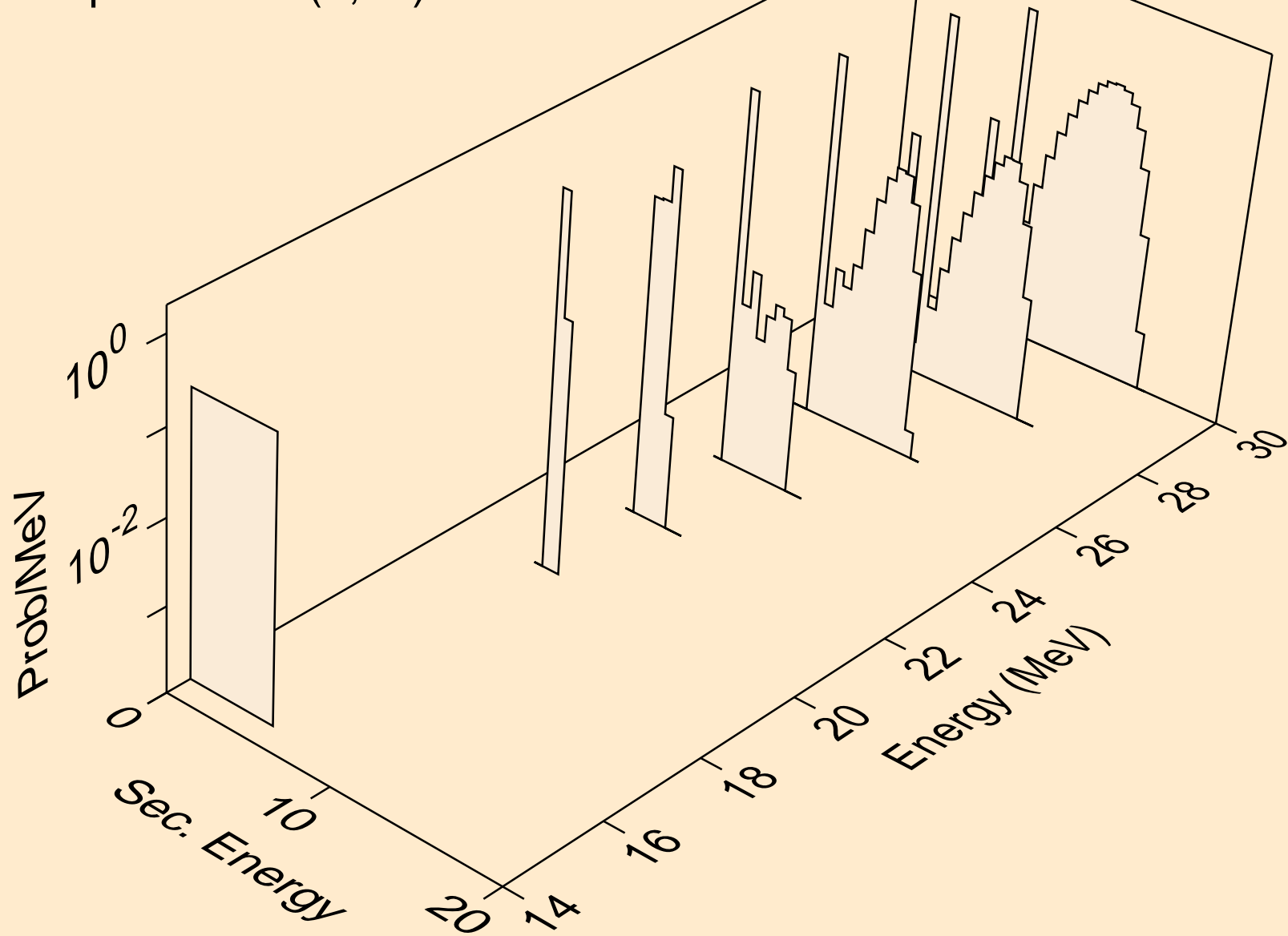
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alphas from (n,n\*)a



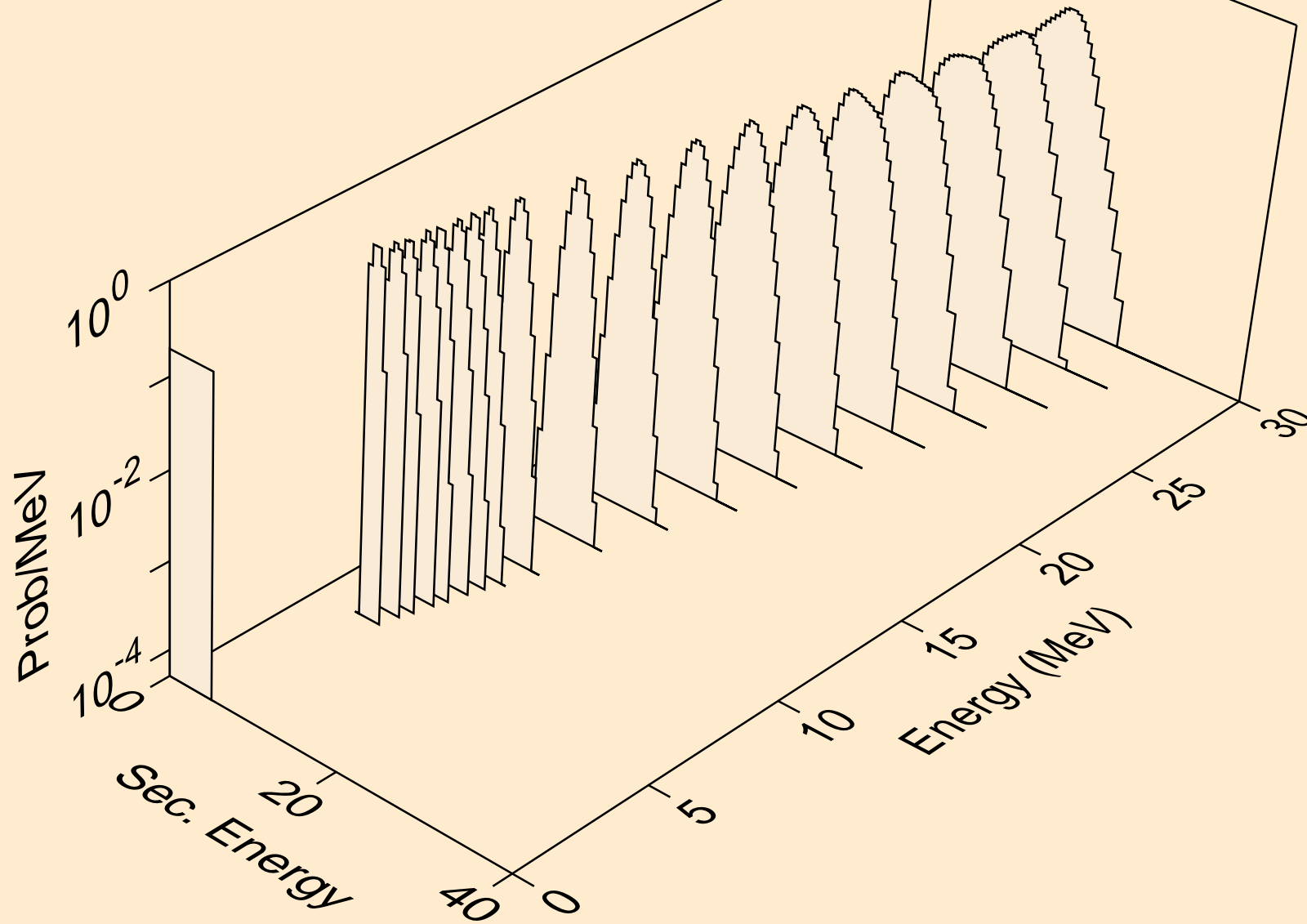
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alphas from (n,2n)a



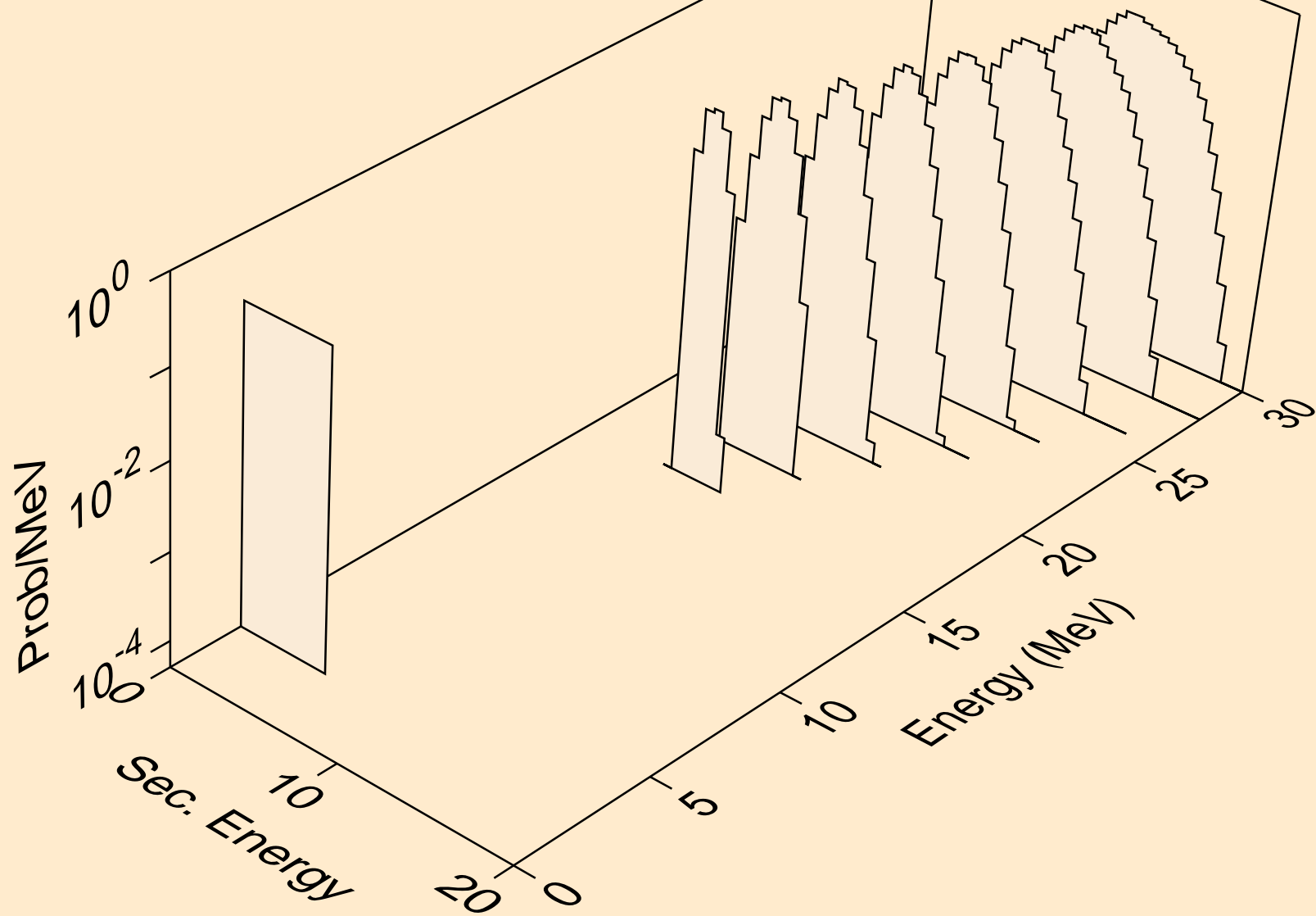
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alphas from (n,3n)a



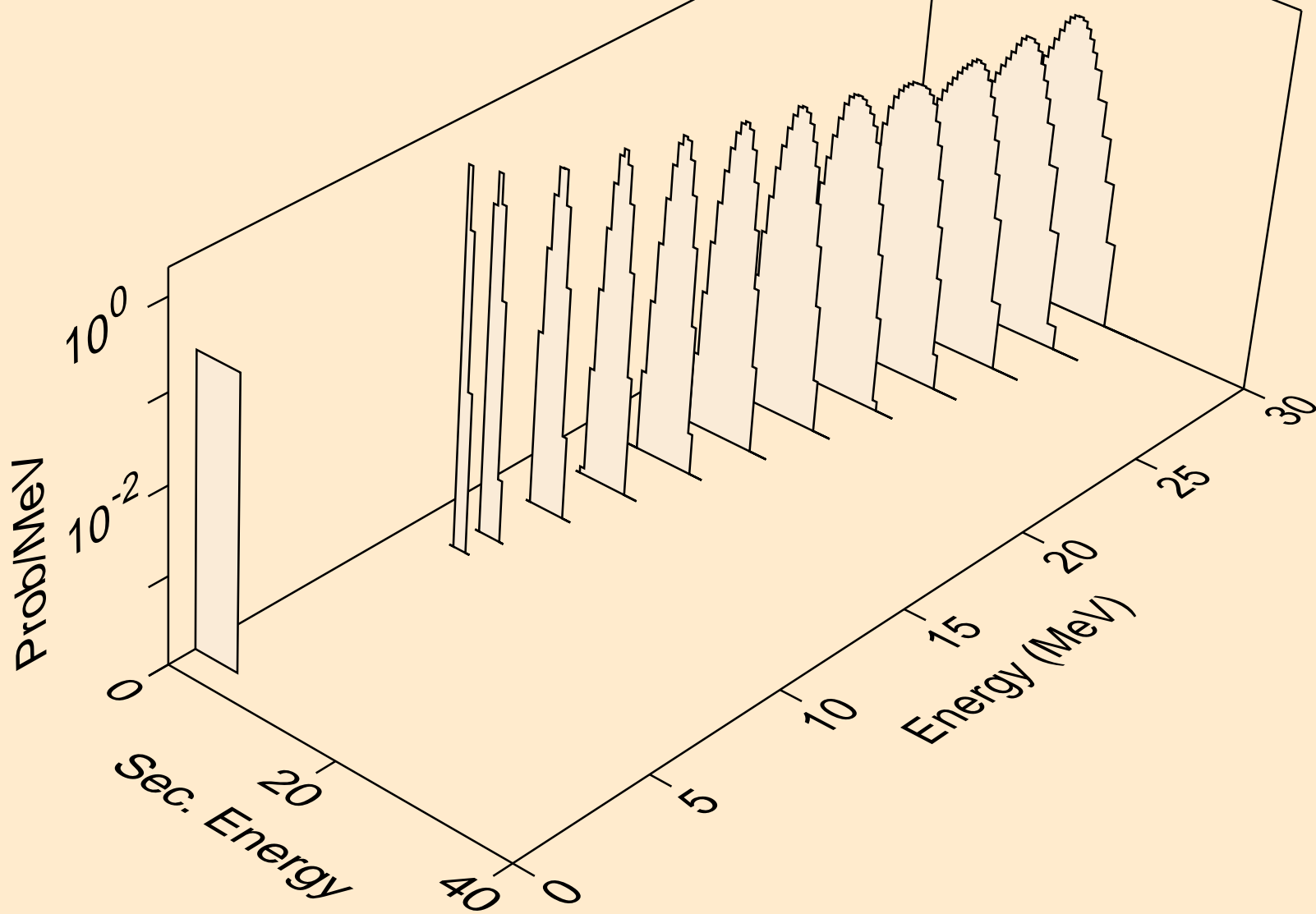
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alphas from (n,n\*)2a



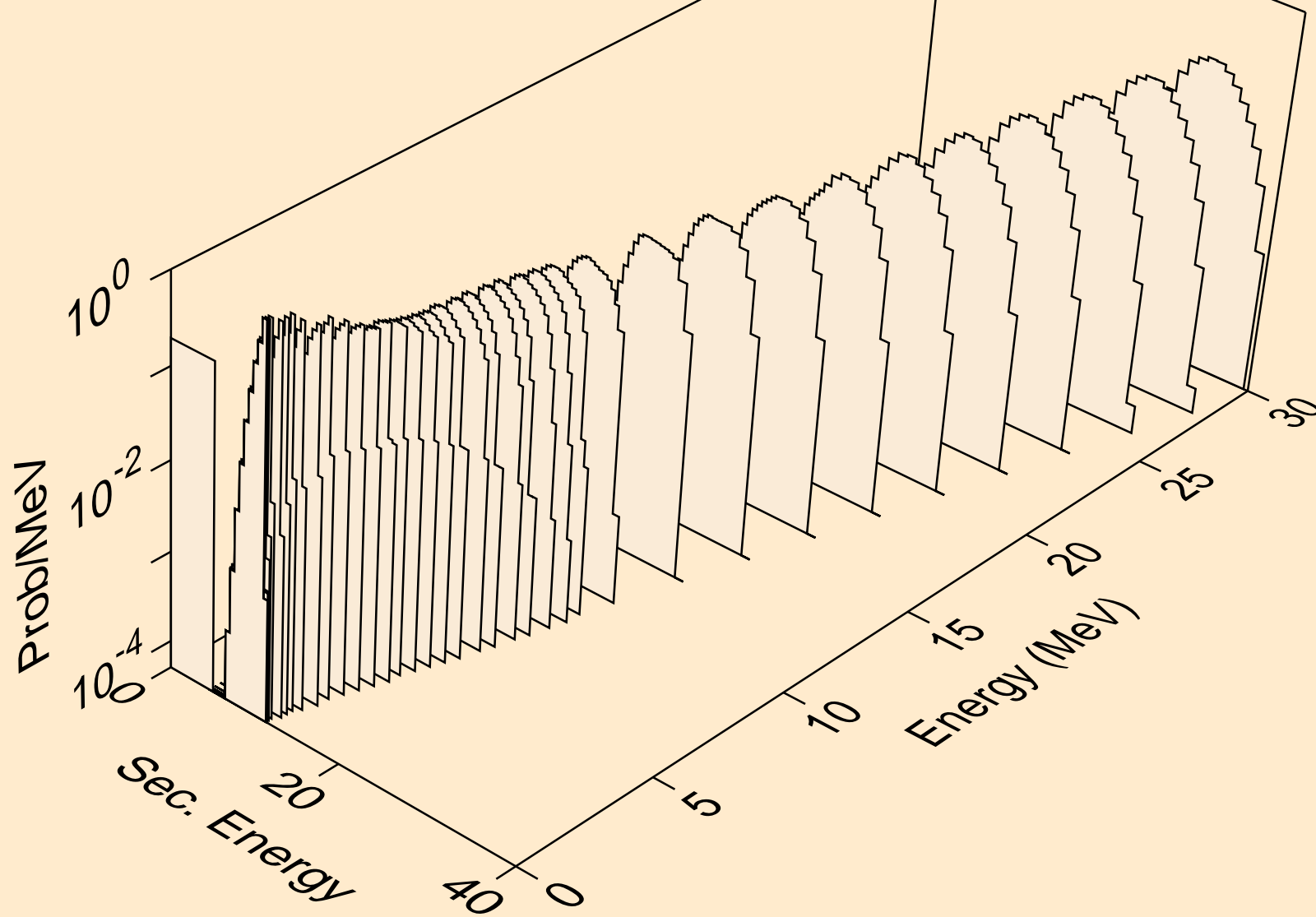
HF164 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,2n)2a



HF164 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,npa)

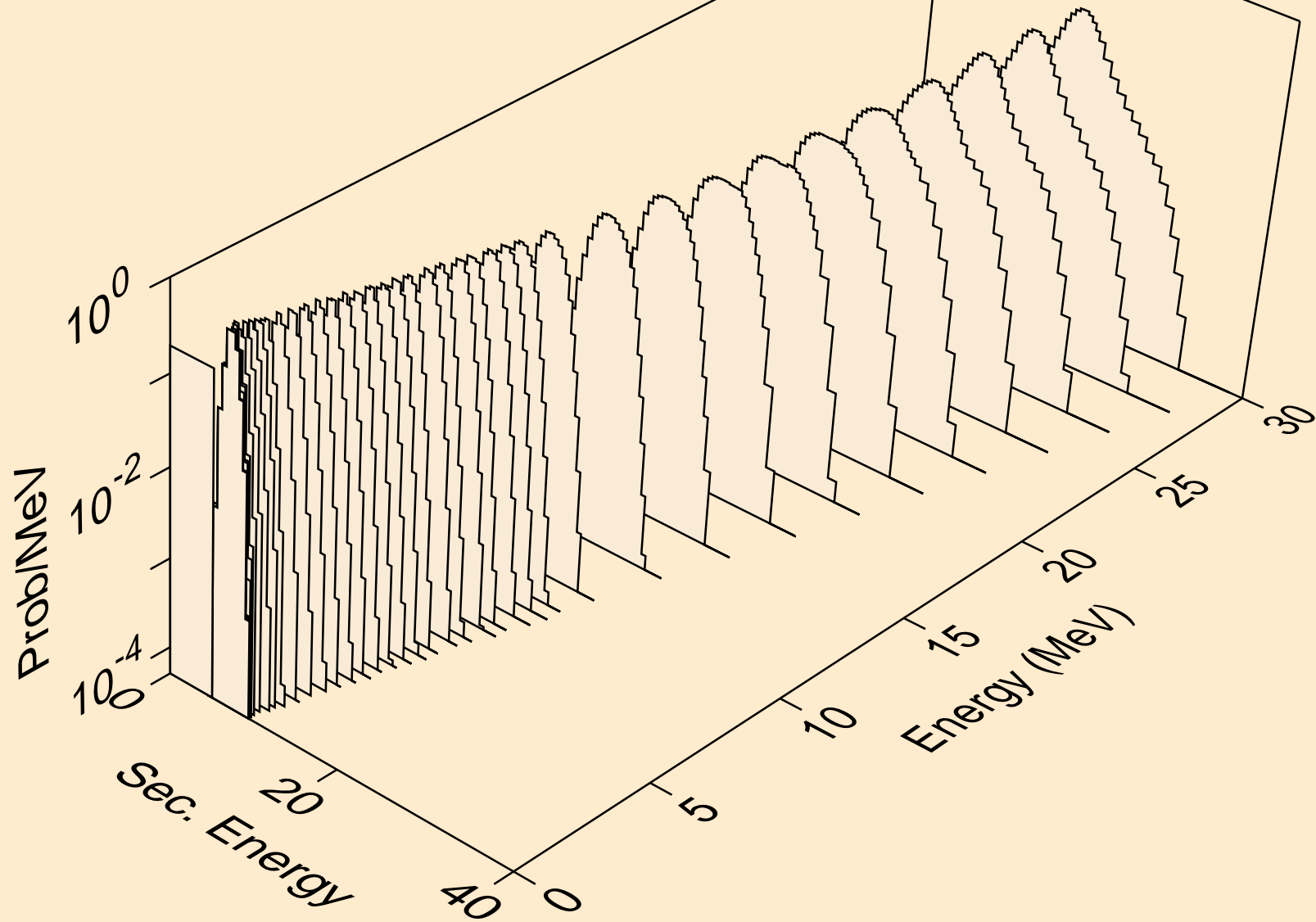


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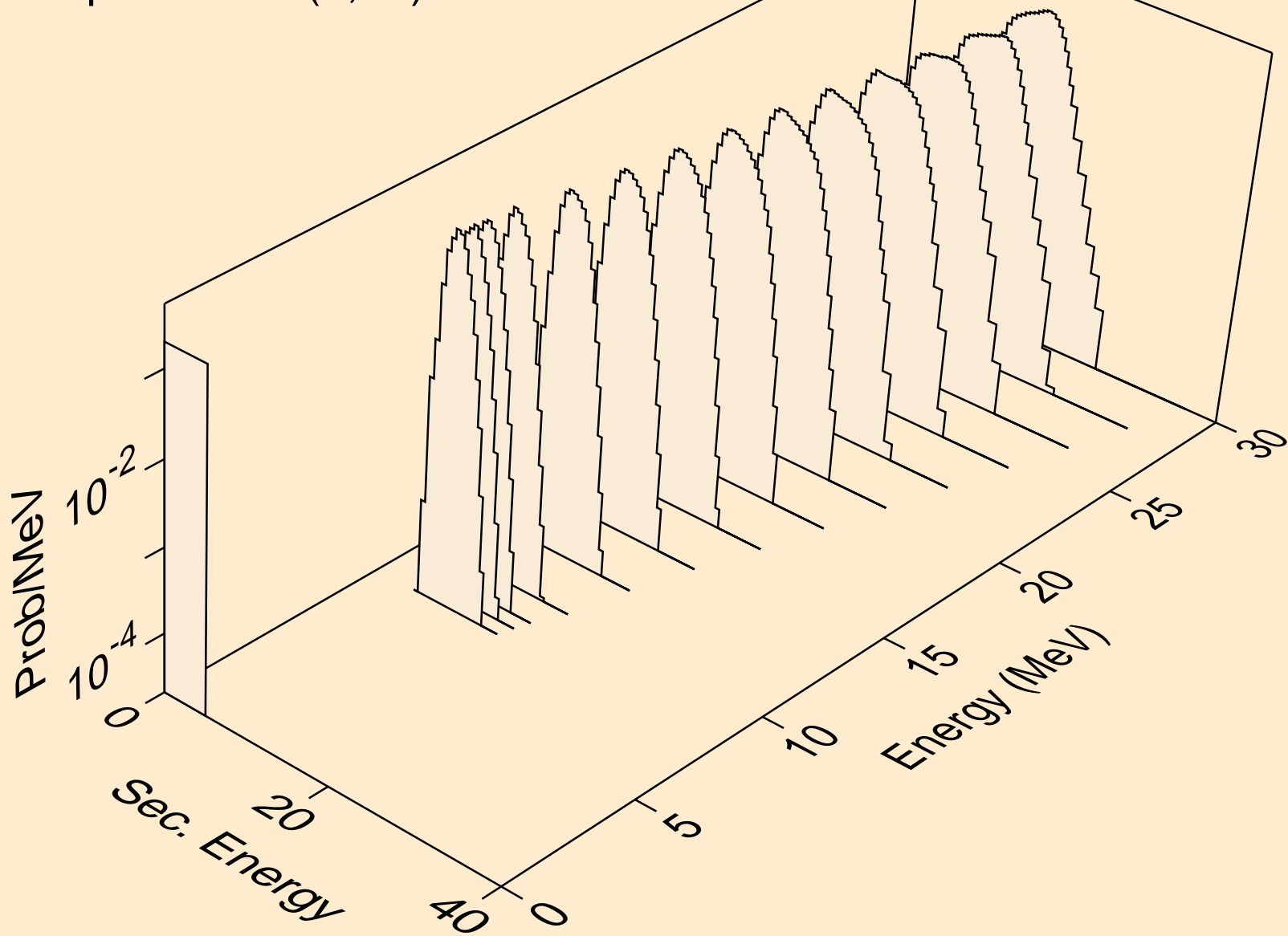




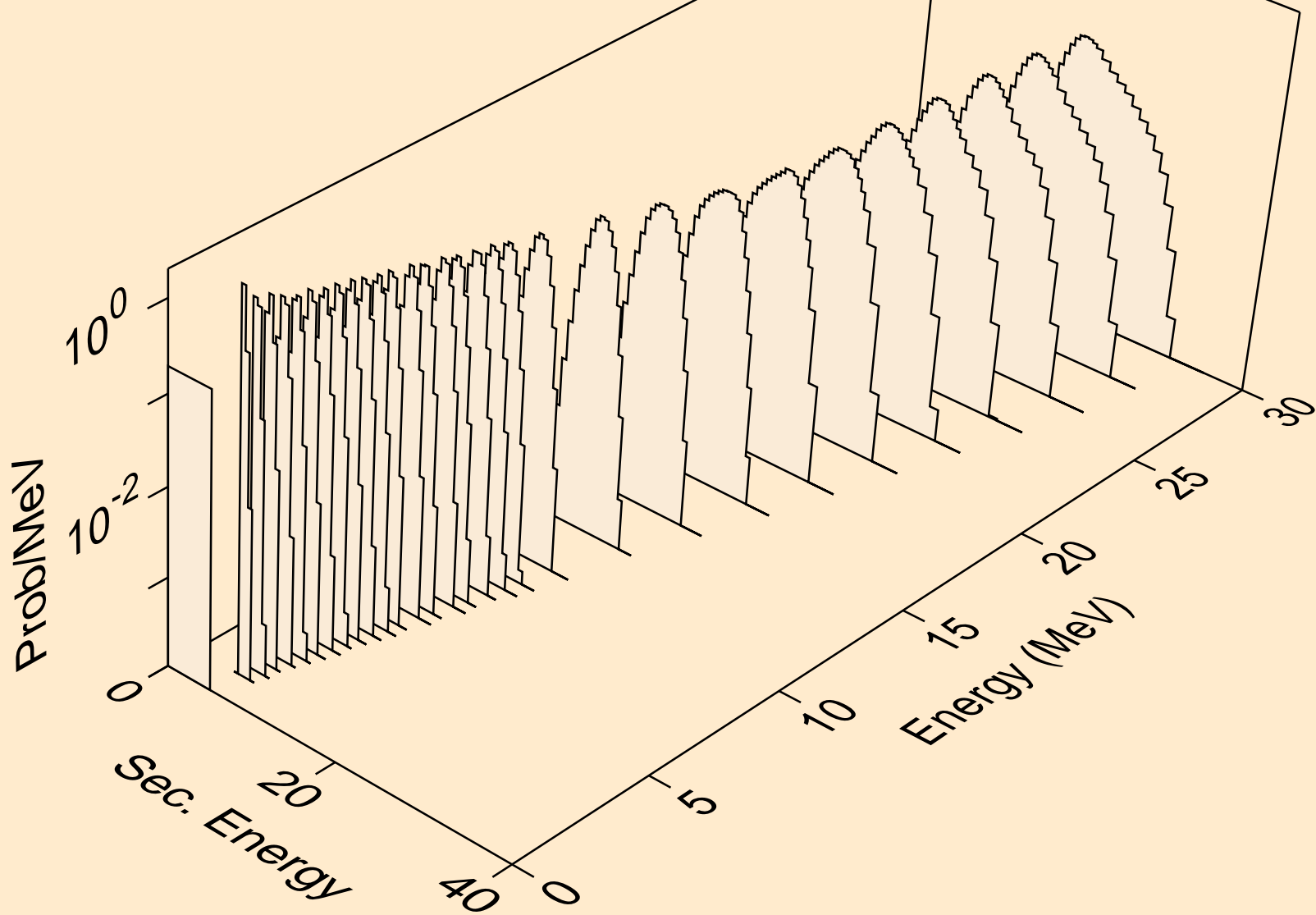
HF164 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,2a)



HF164 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,3a)



HF164 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,pa)



HF164 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,da)

