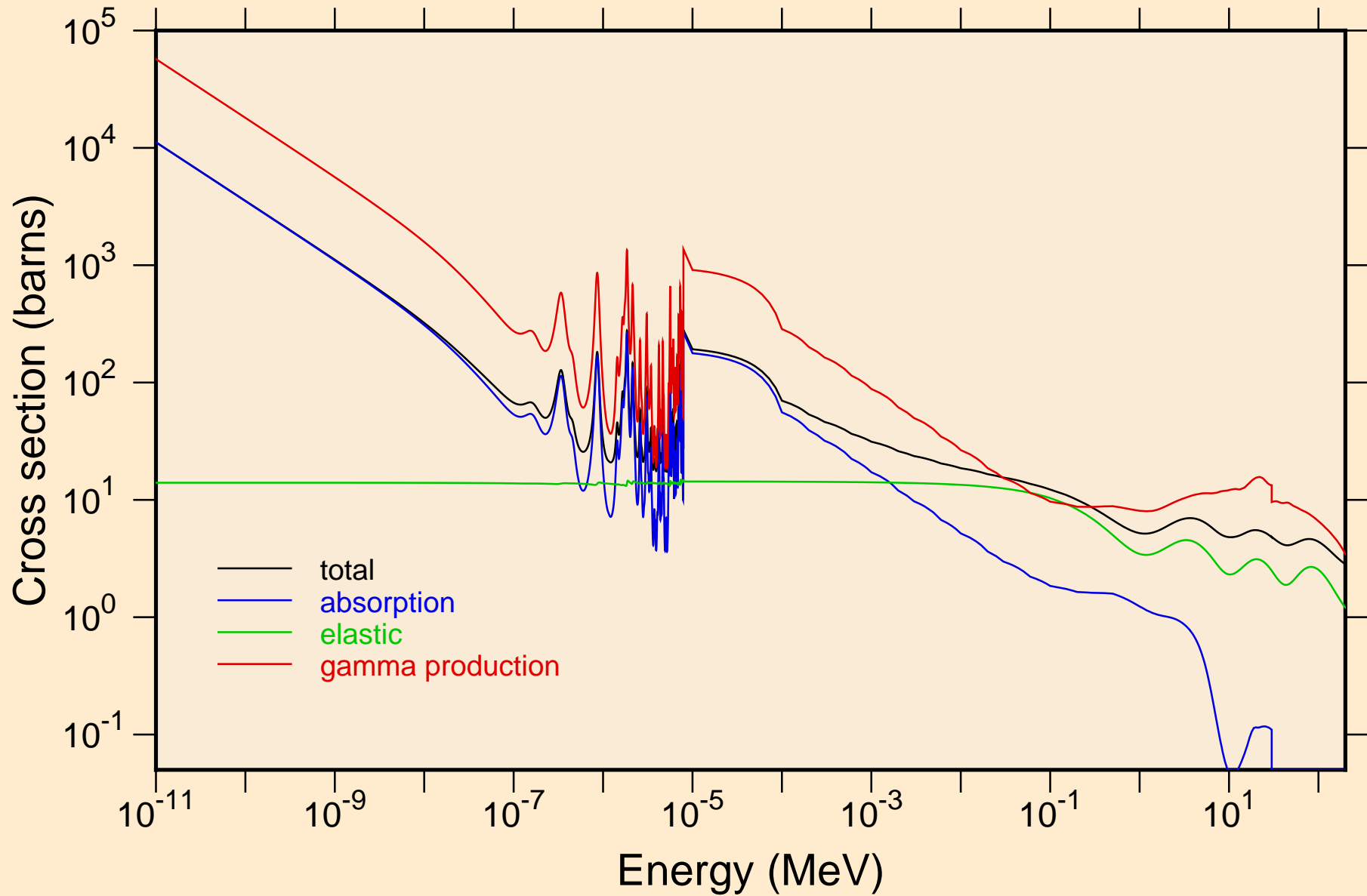
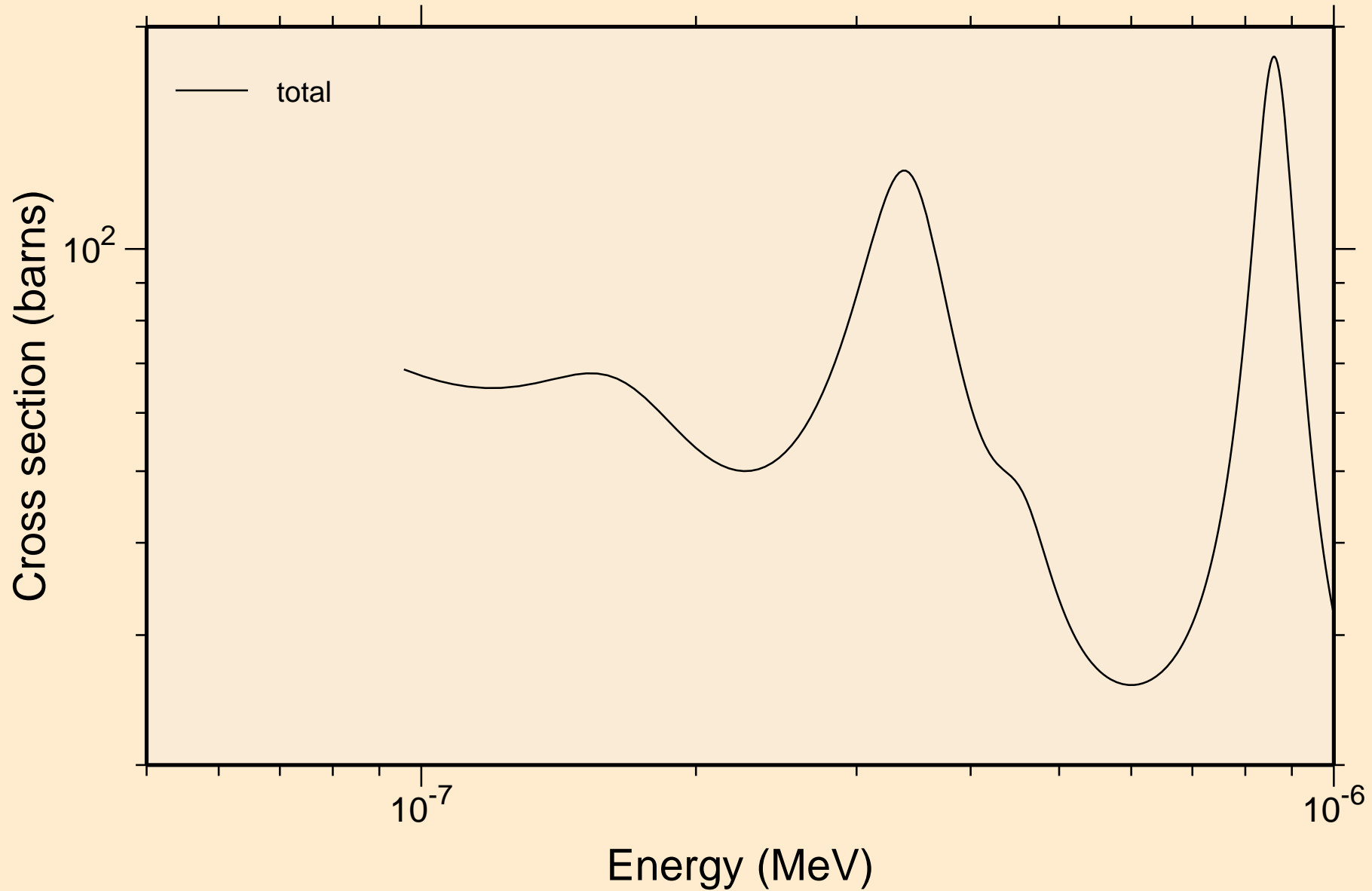


# HG189 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

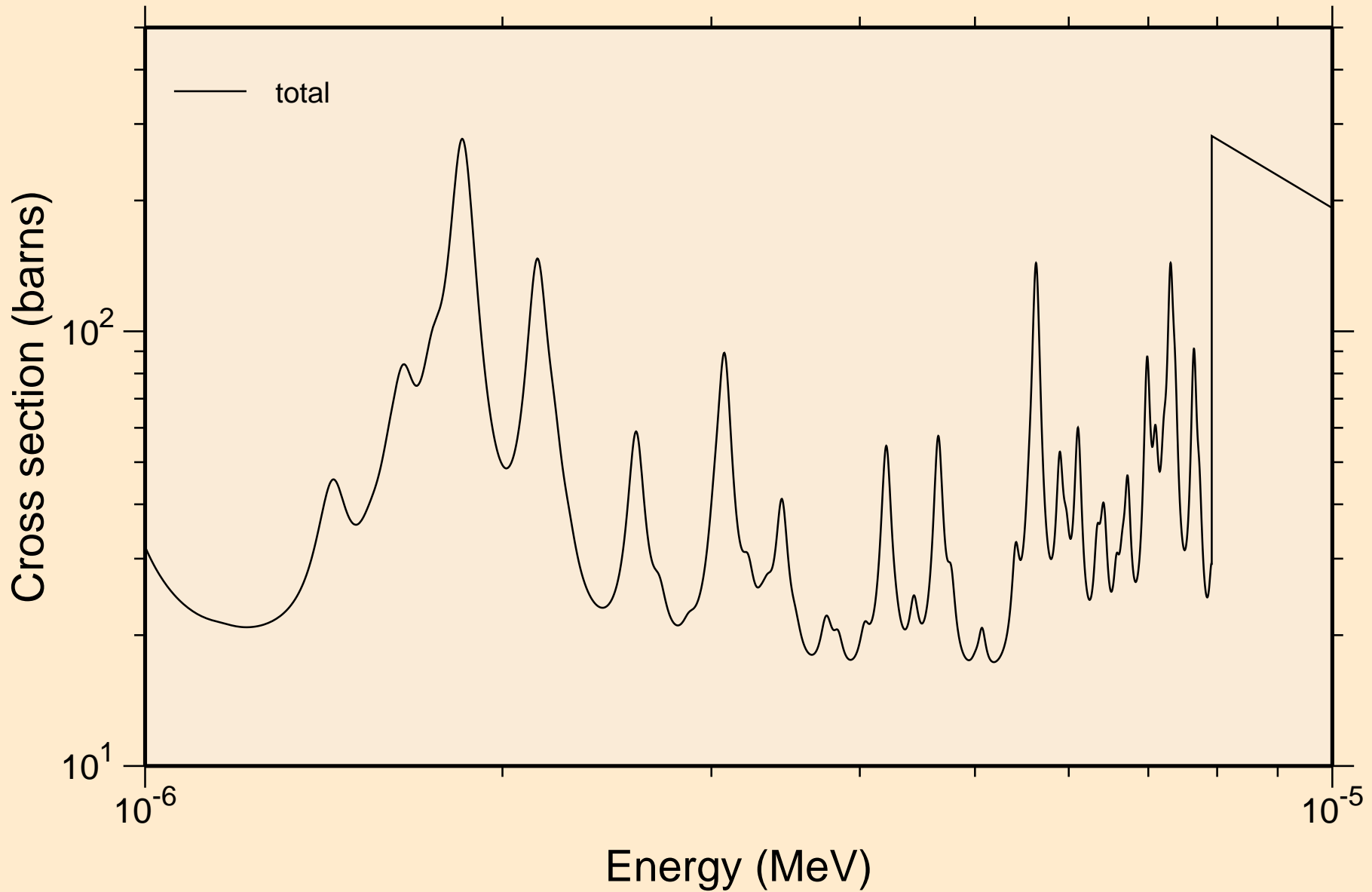
## Principal cross sections



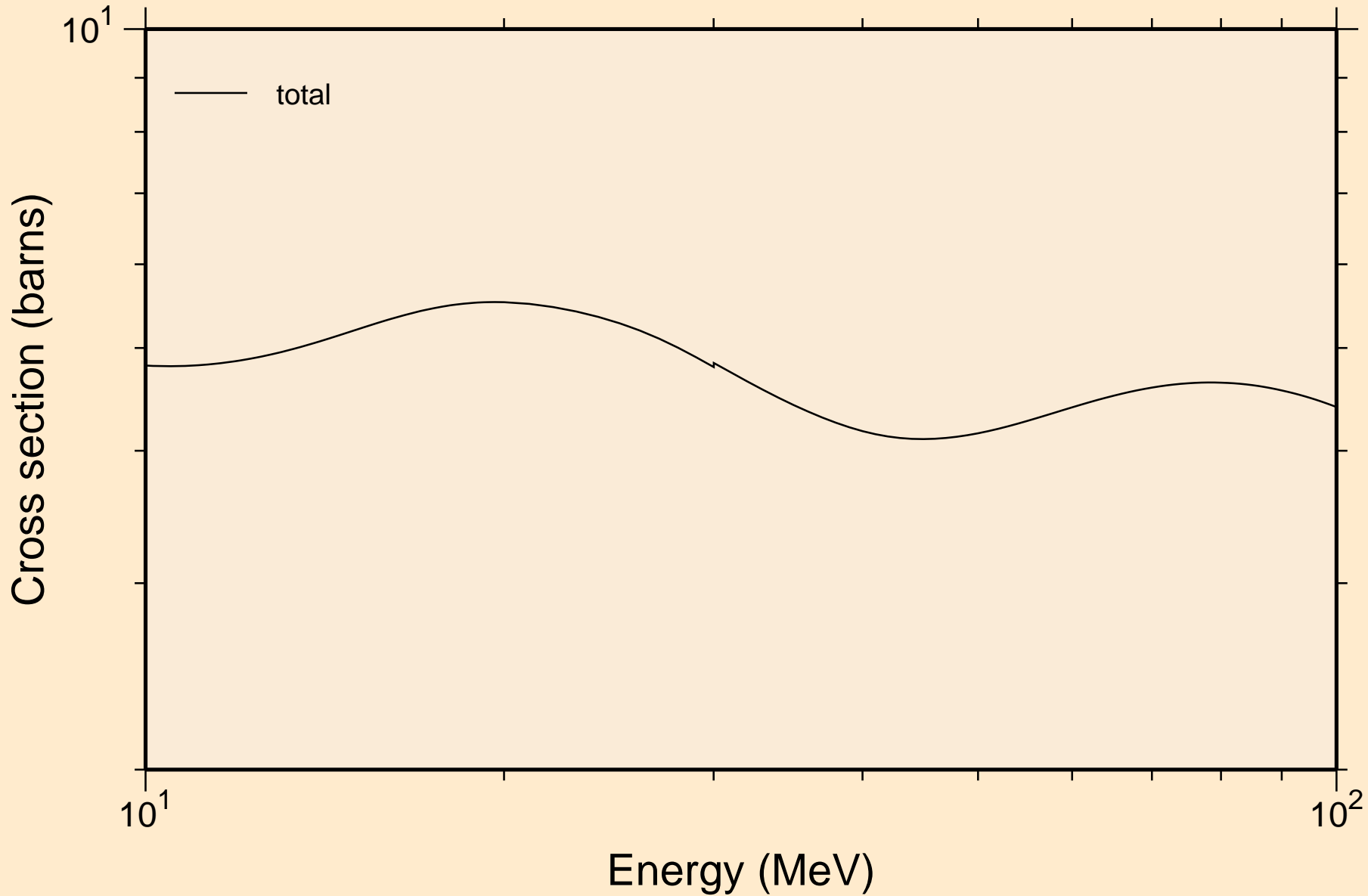
HG189 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
resonance total cross section



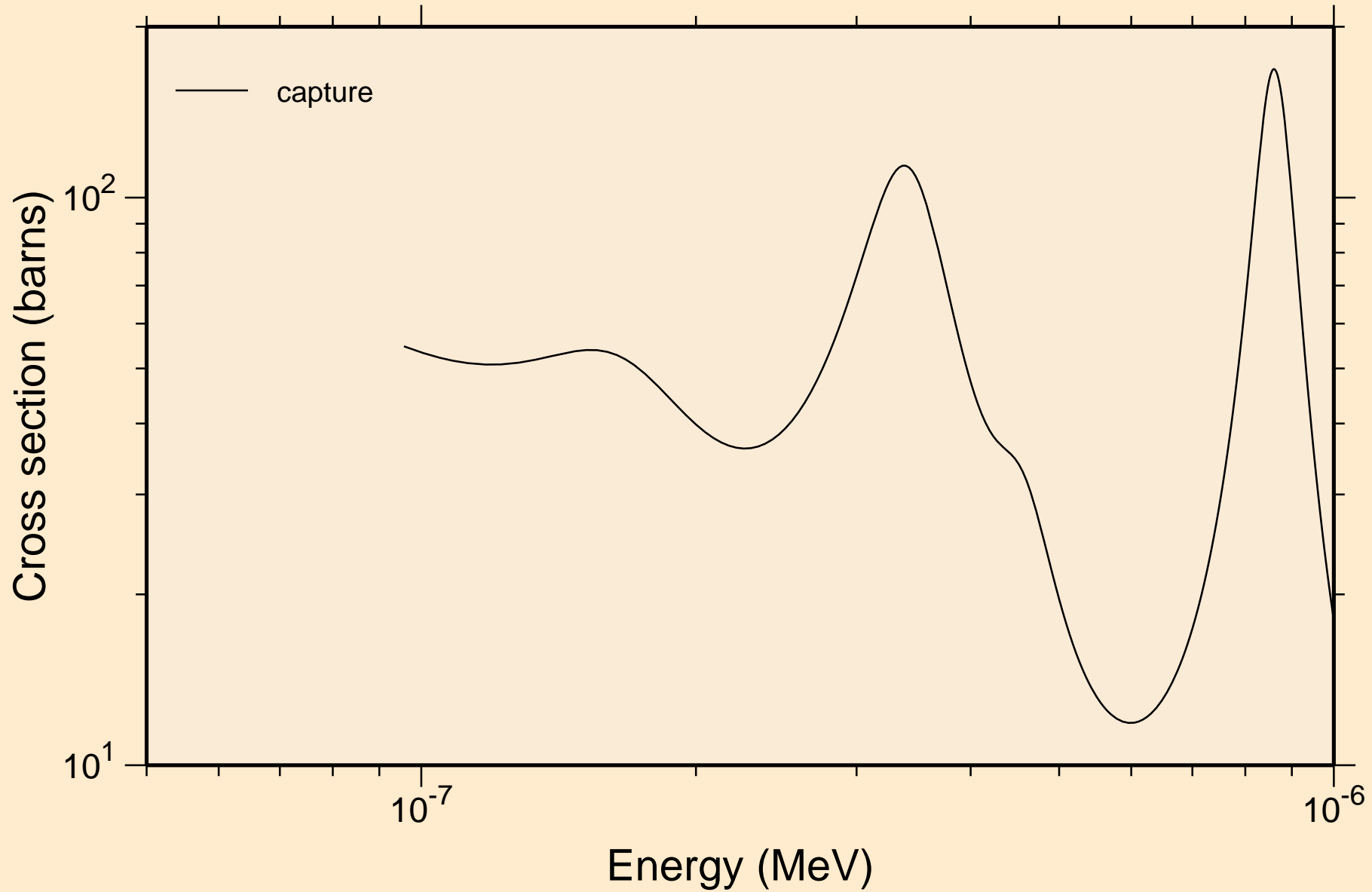
HG189 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
resonance total cross section



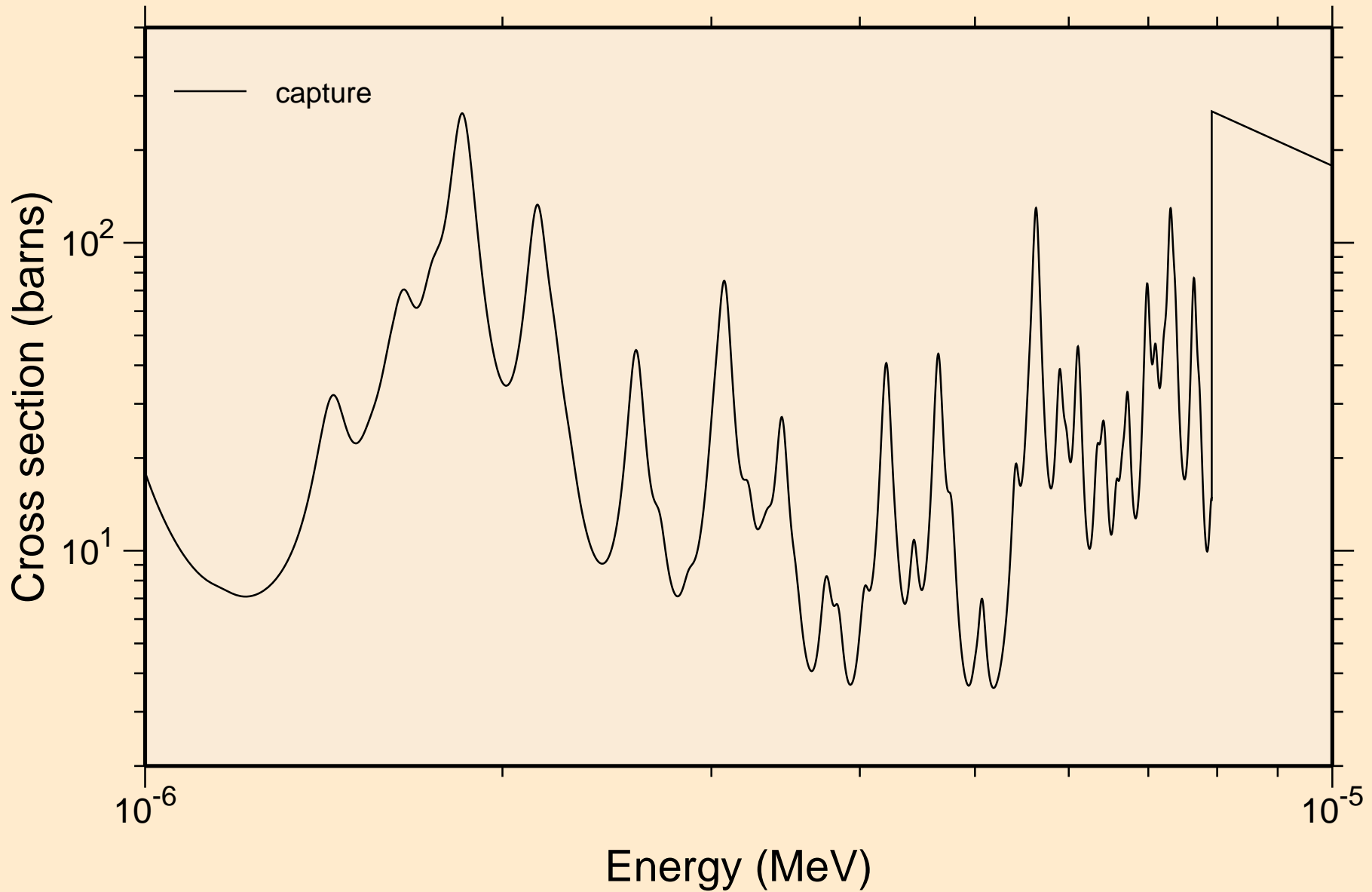
HG189 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
resonance total cross section



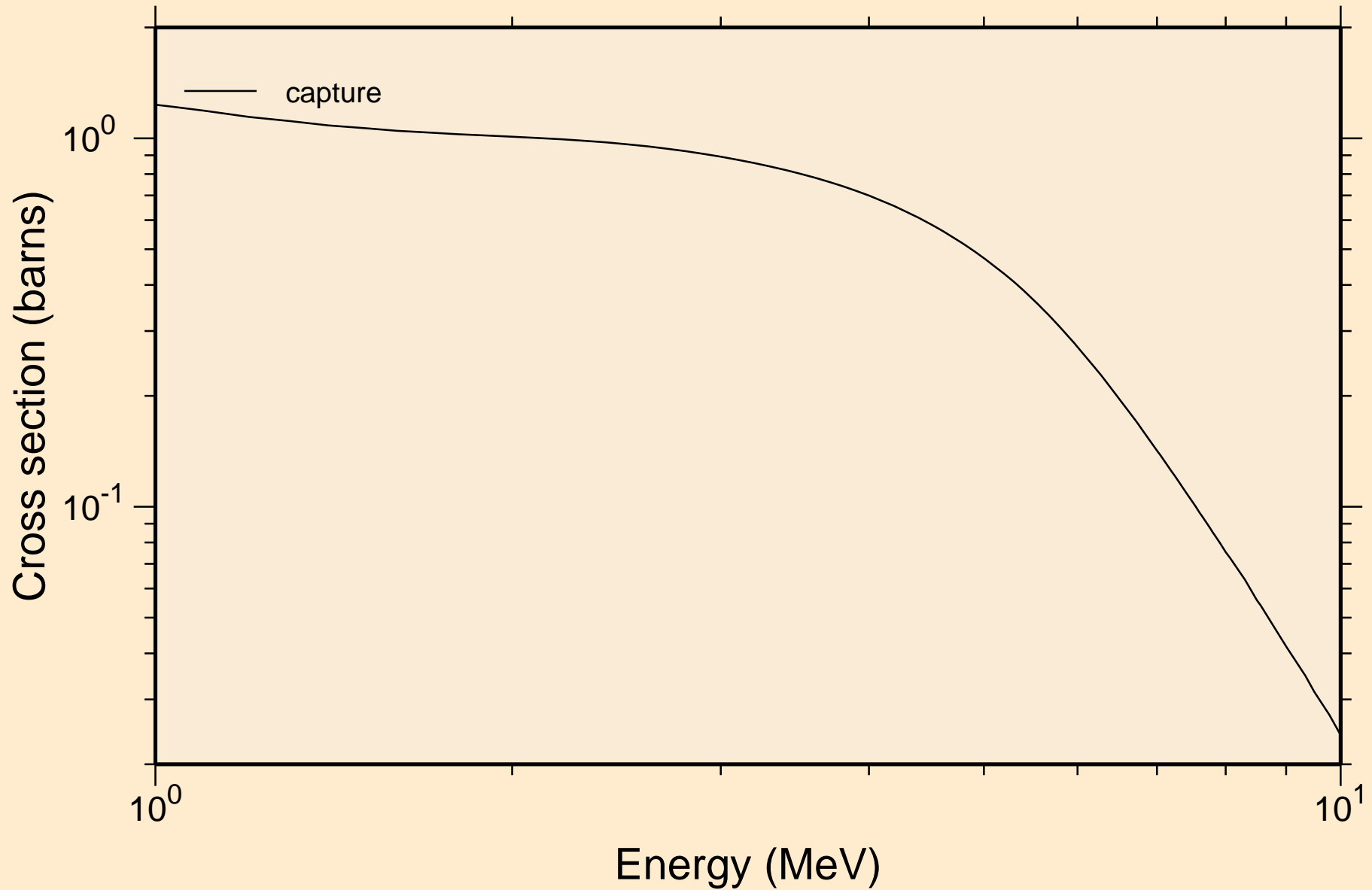
HG189 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
resonance absorption cross sections



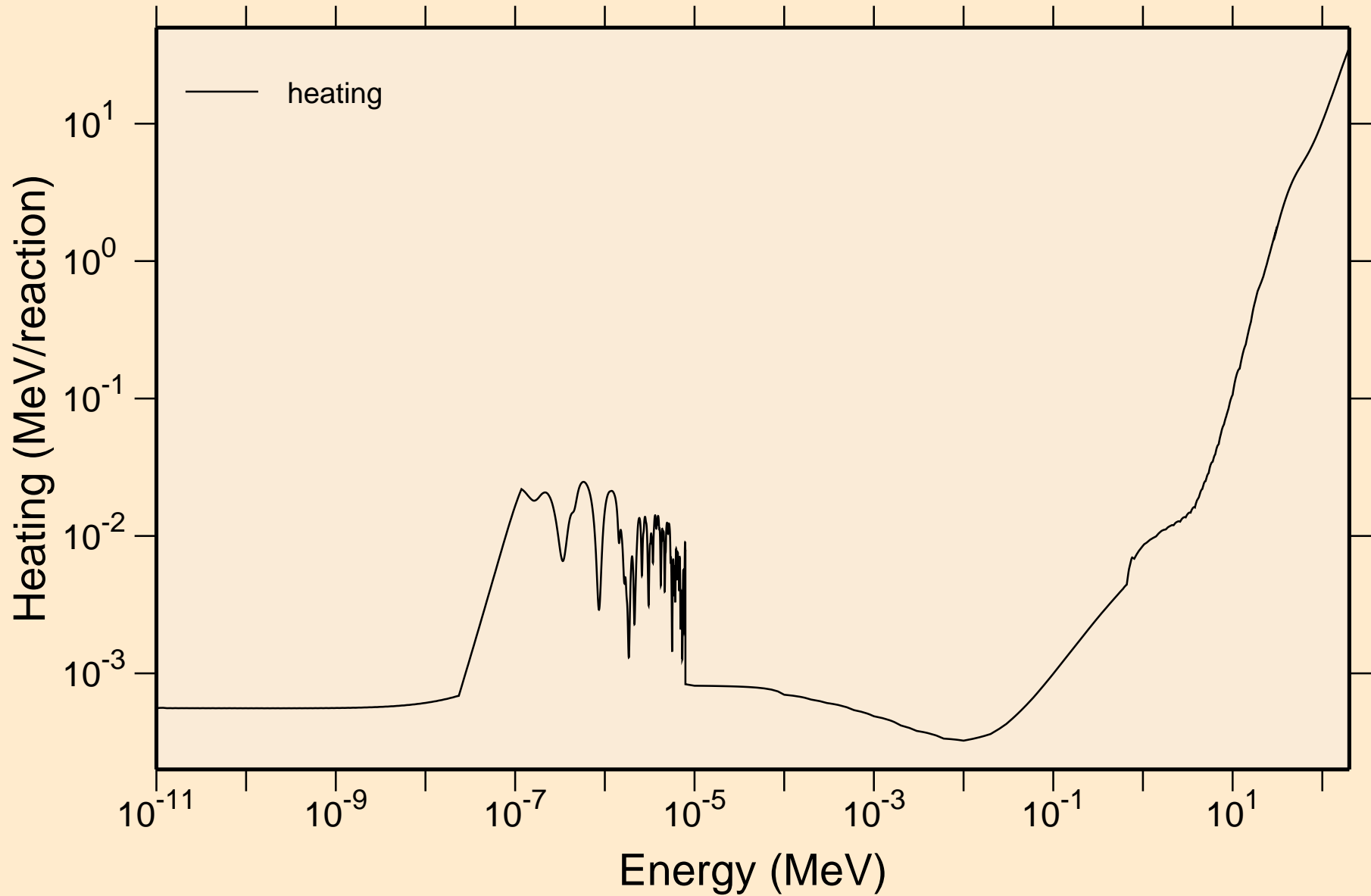
HG189 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
resonance absorption cross sections



HG189 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
resonance absorption cross sections



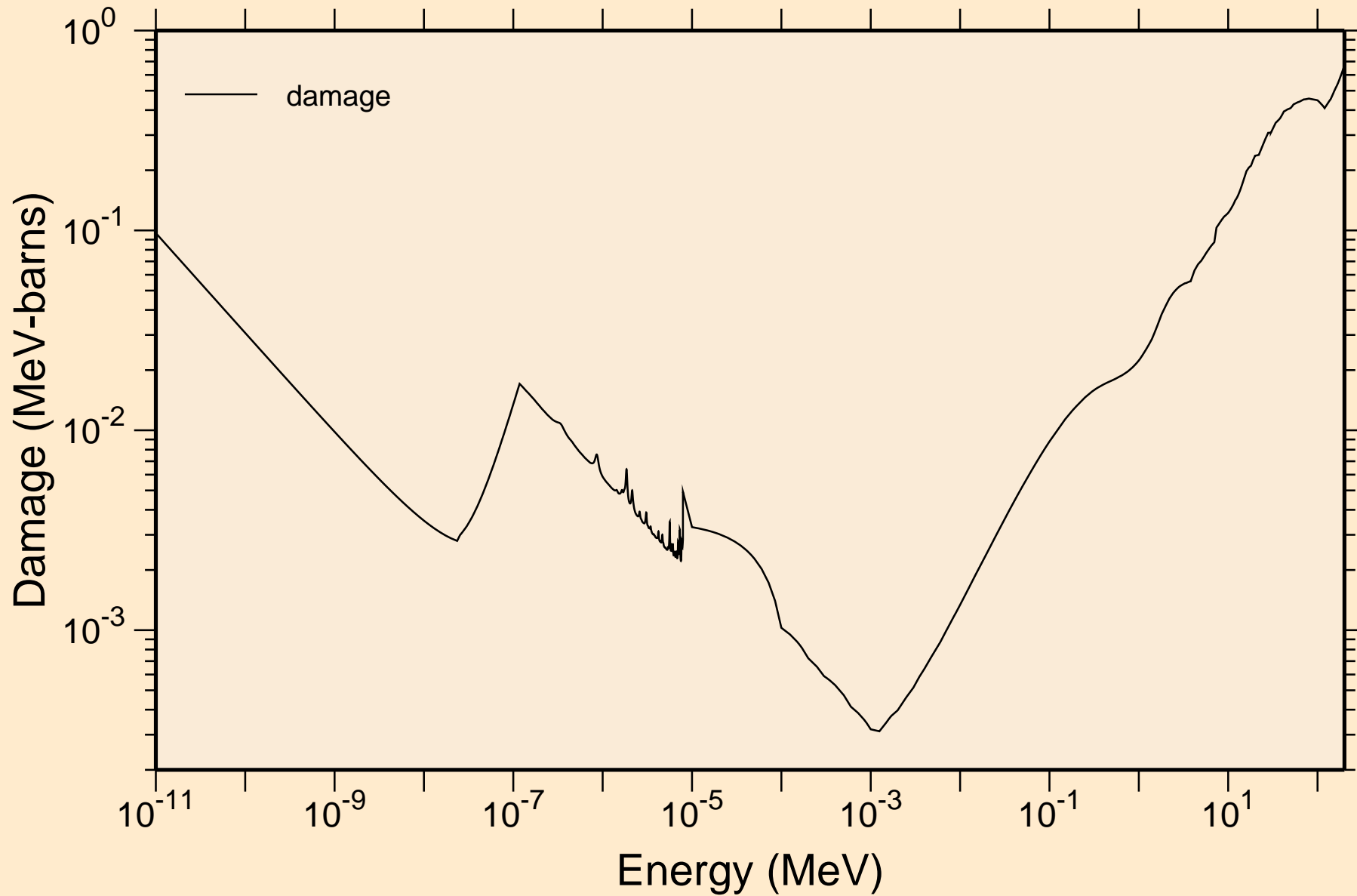
HG189 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Heating





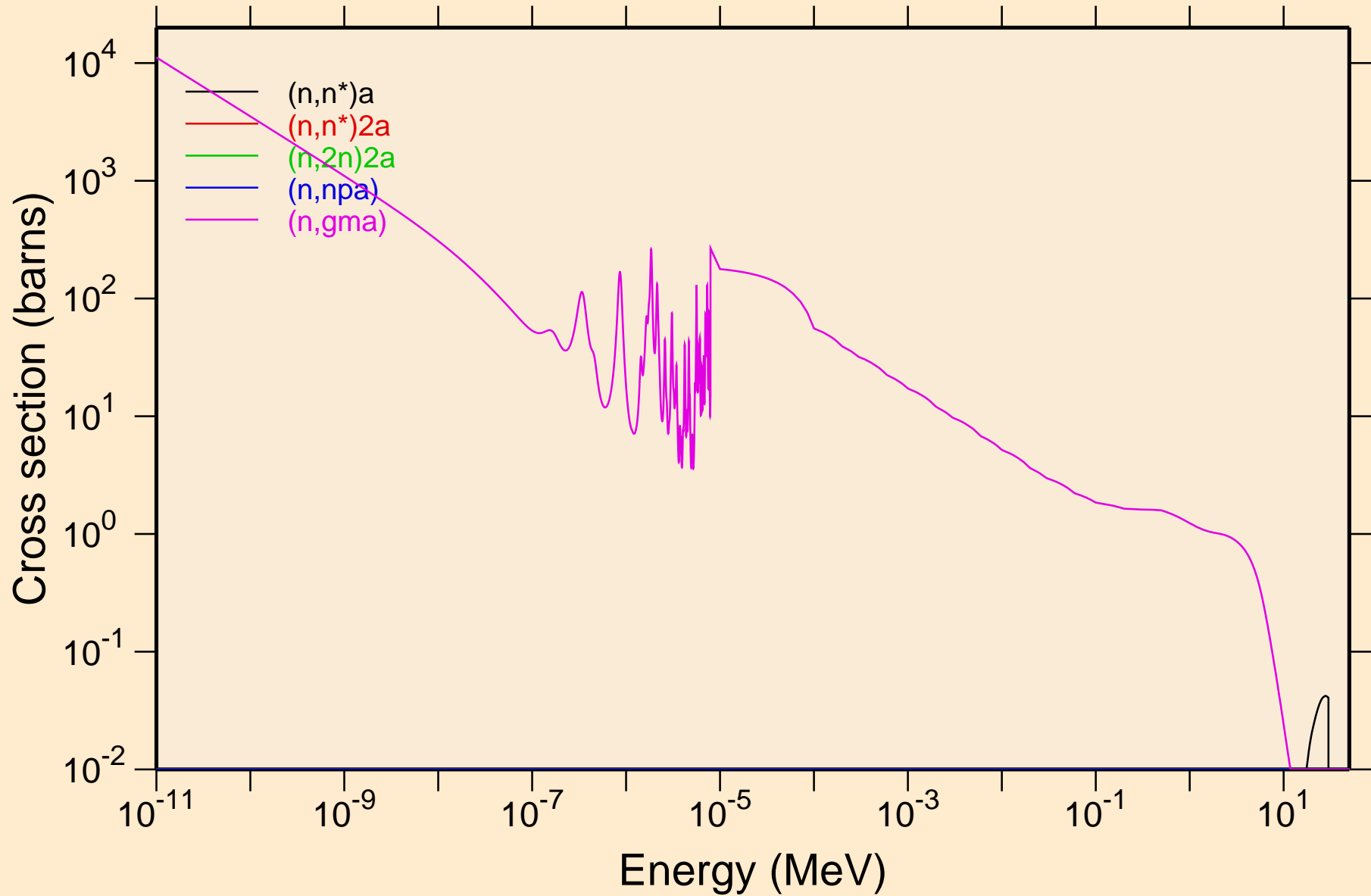
# HG189 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

## Damage



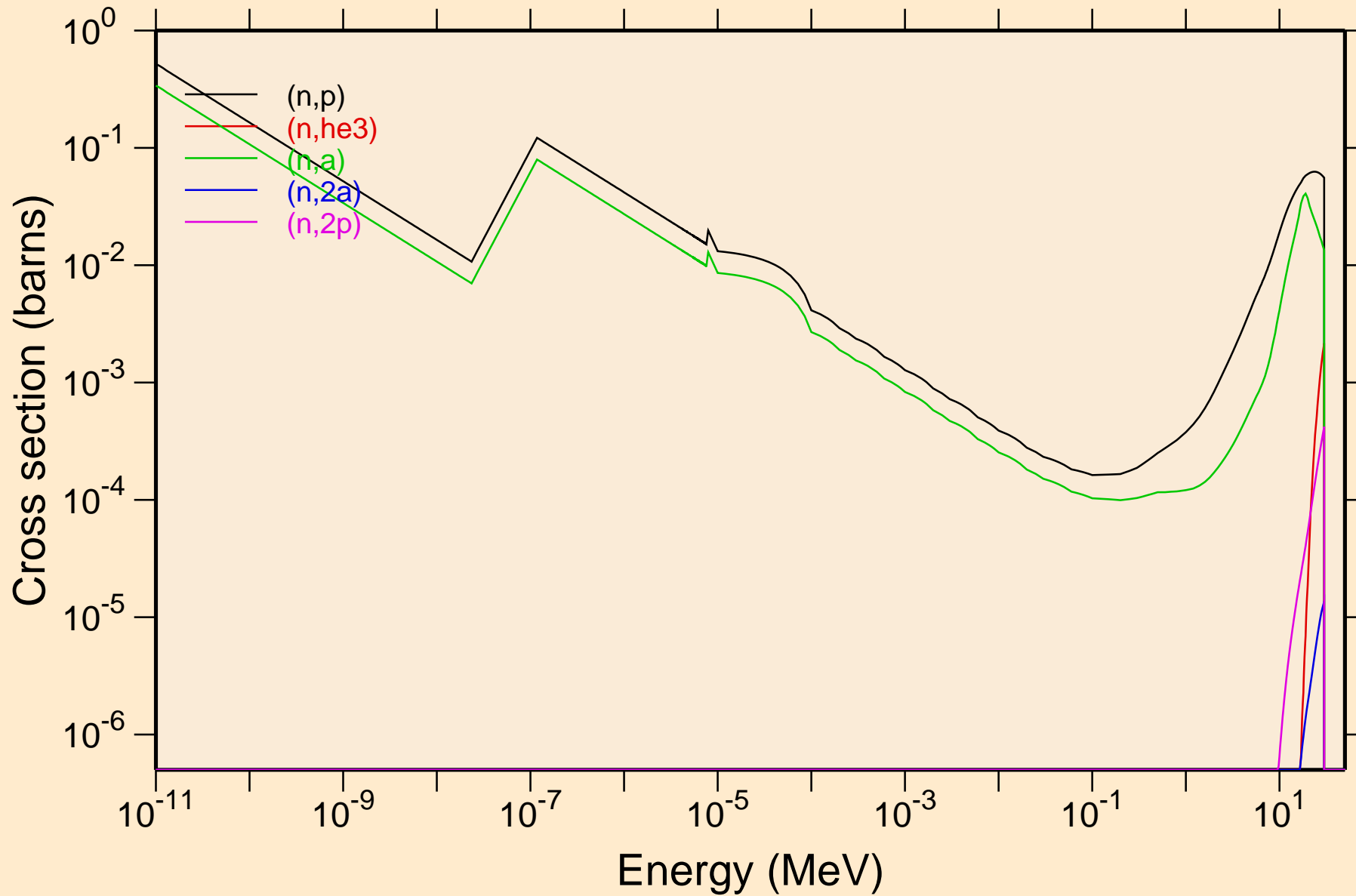
# HG189 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

## Non-threshold reactions



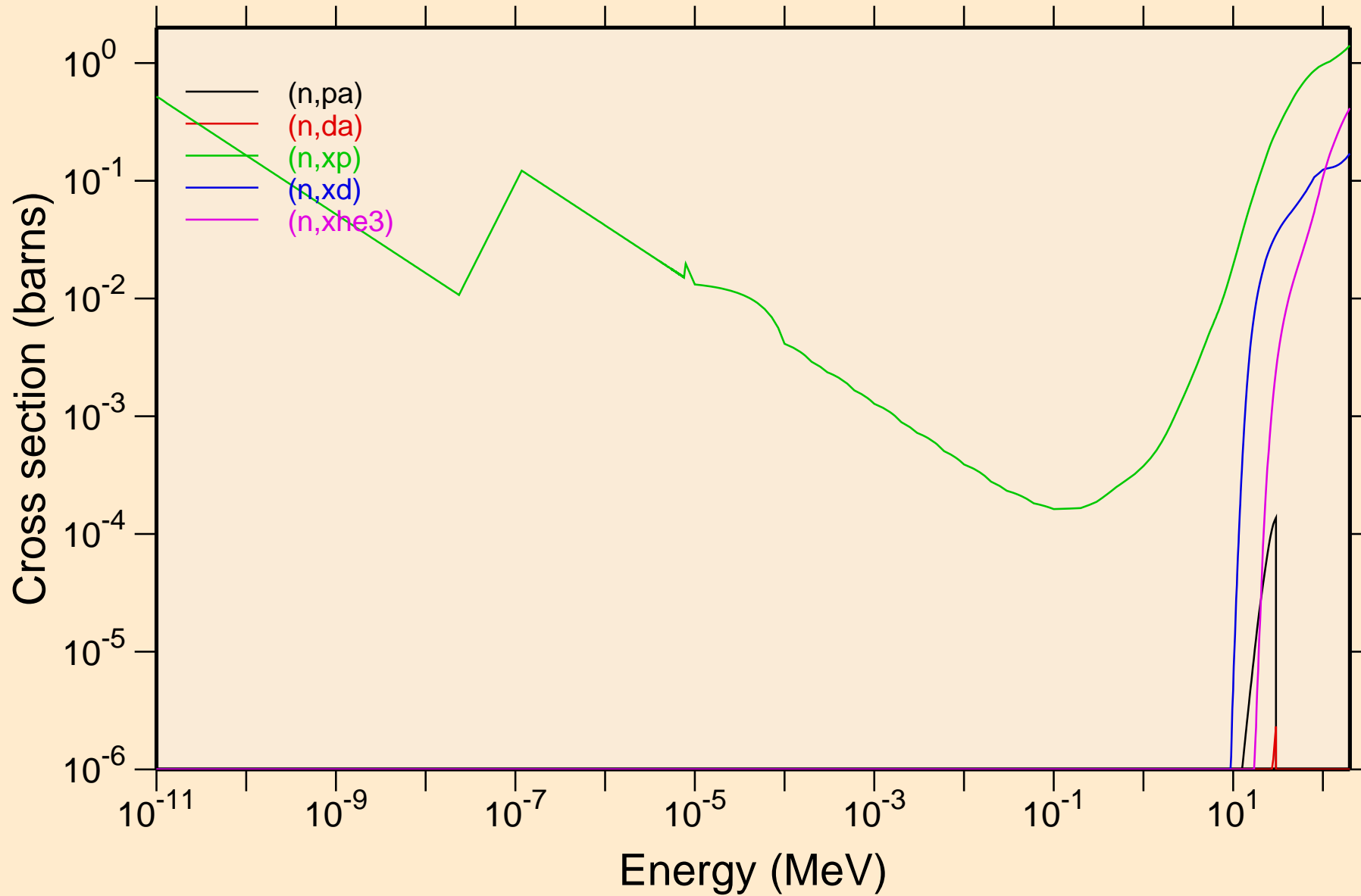
# HG189 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

## Non-threshold reactions

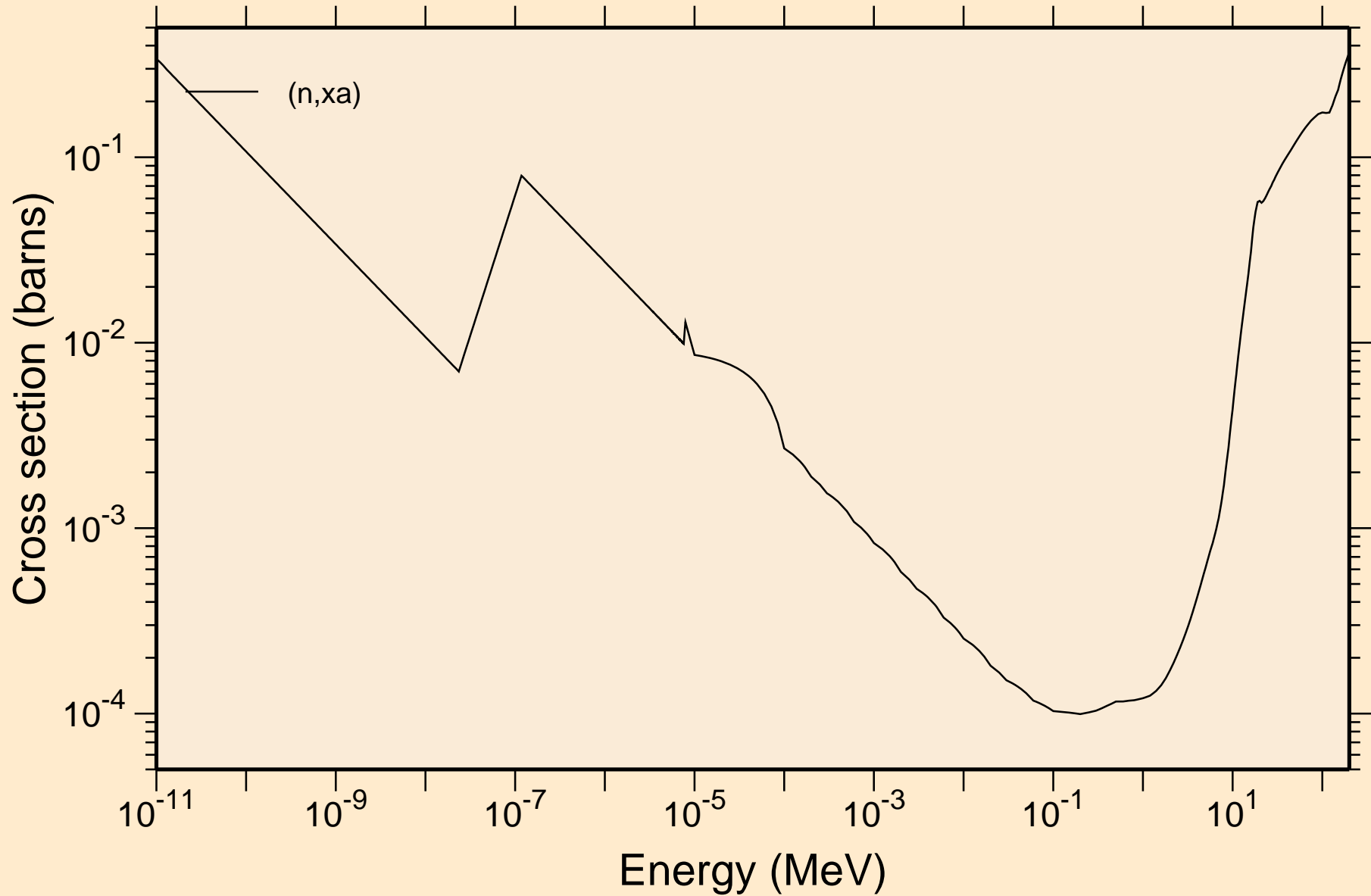


# HG189 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

## Non-threshold reactions

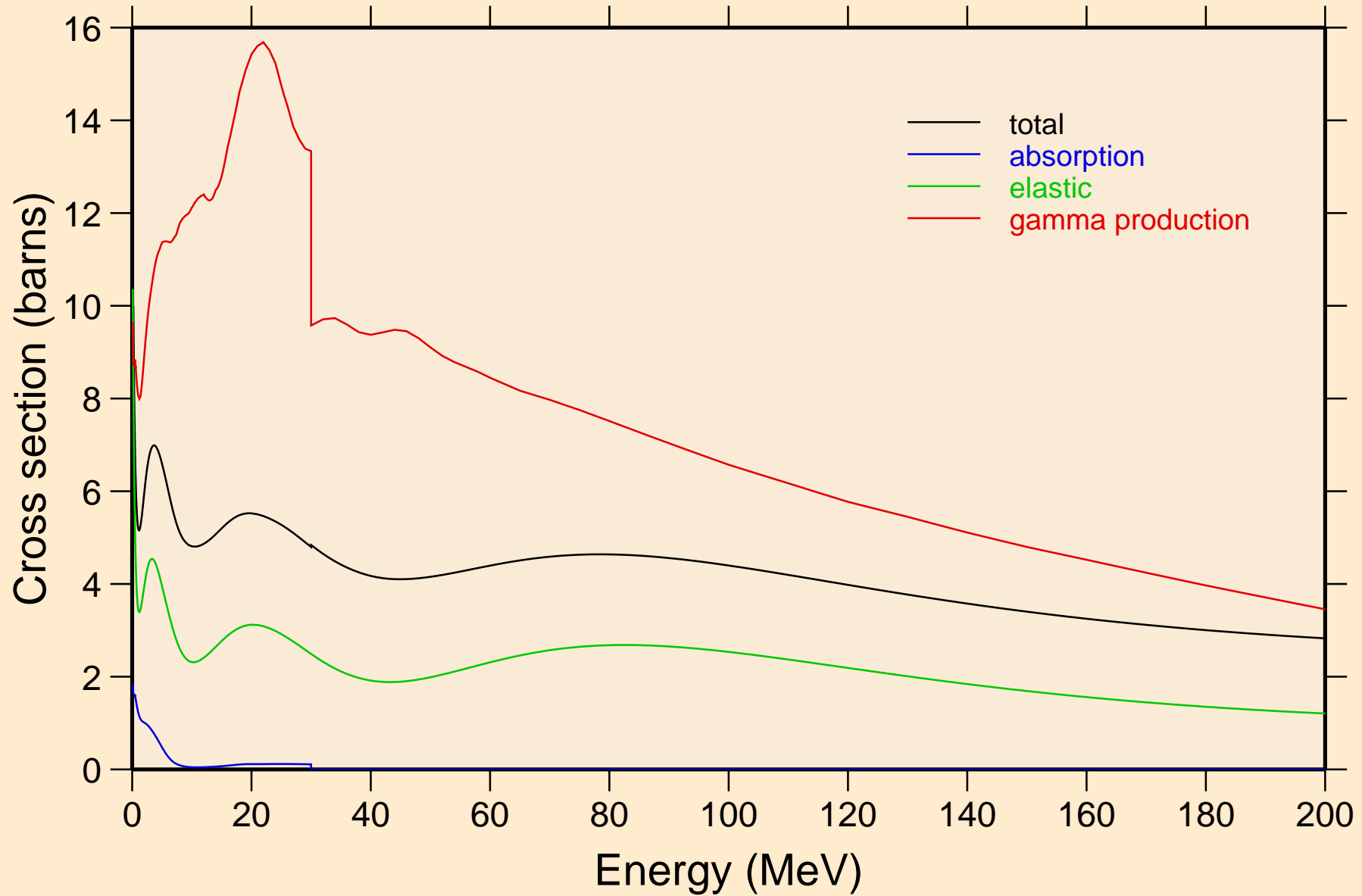


HG189 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Non-threshold reactions



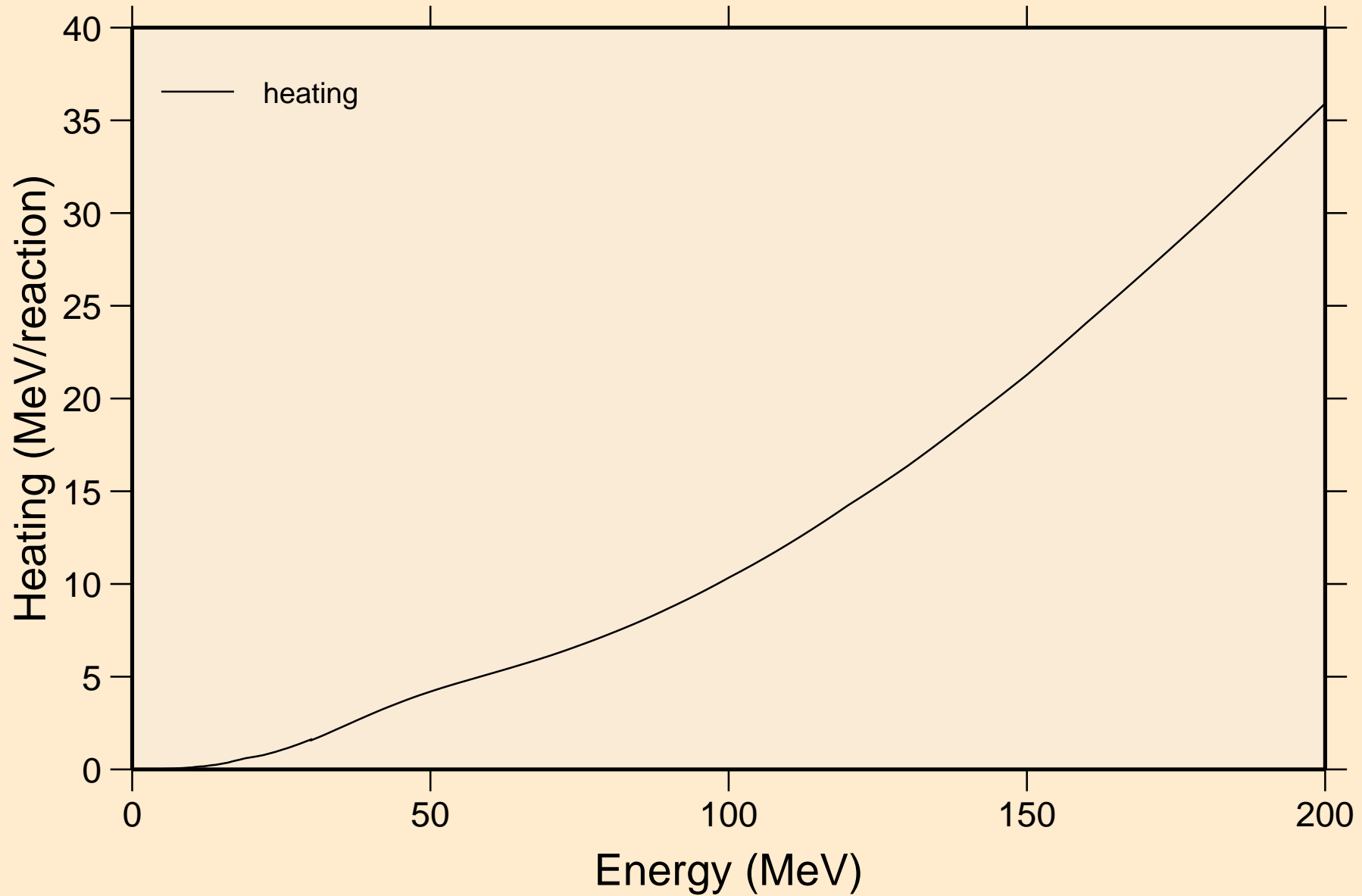
# HG189 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

## Principal cross sections



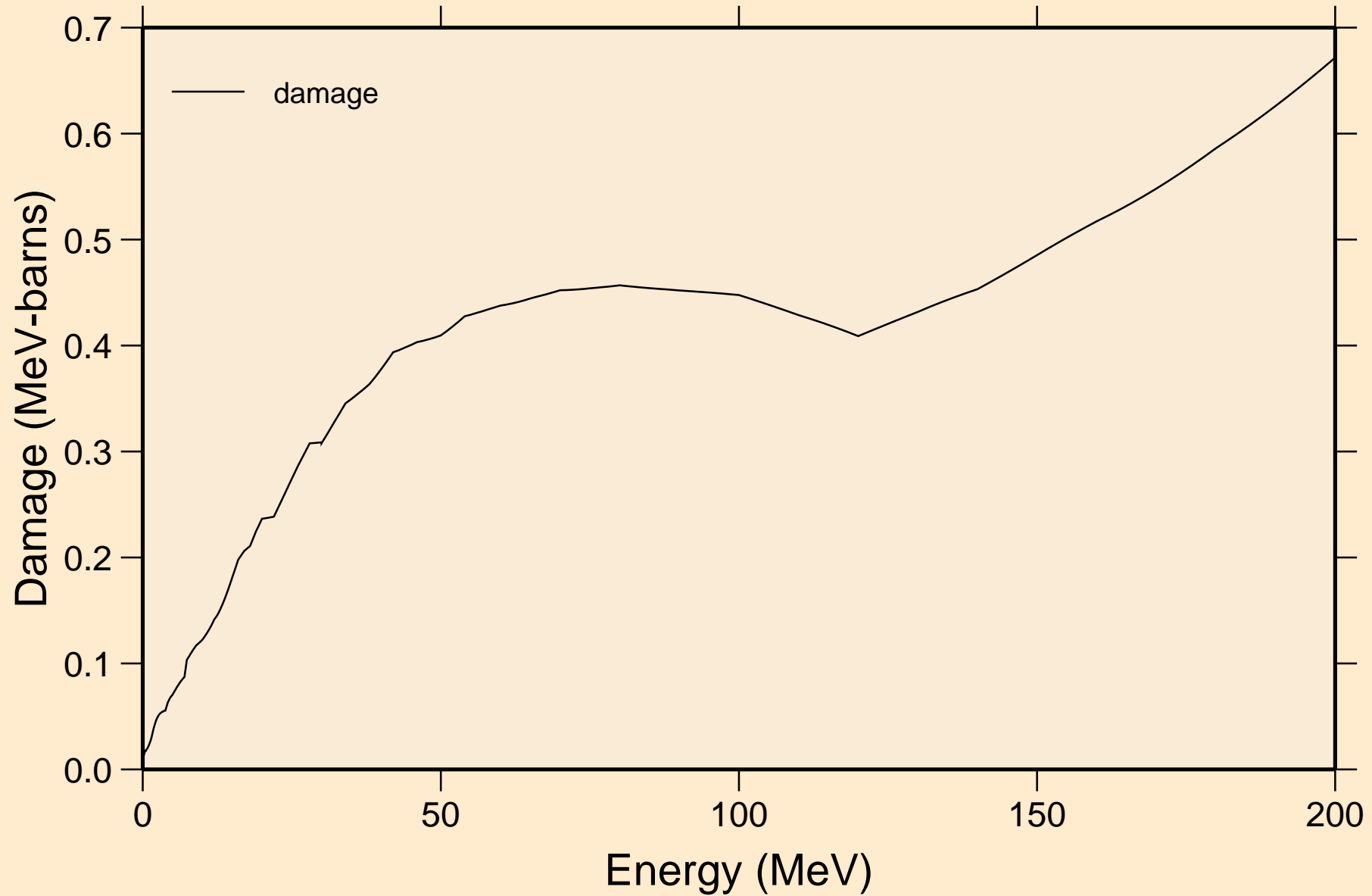
# HG189 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

## Heating



# HG189 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

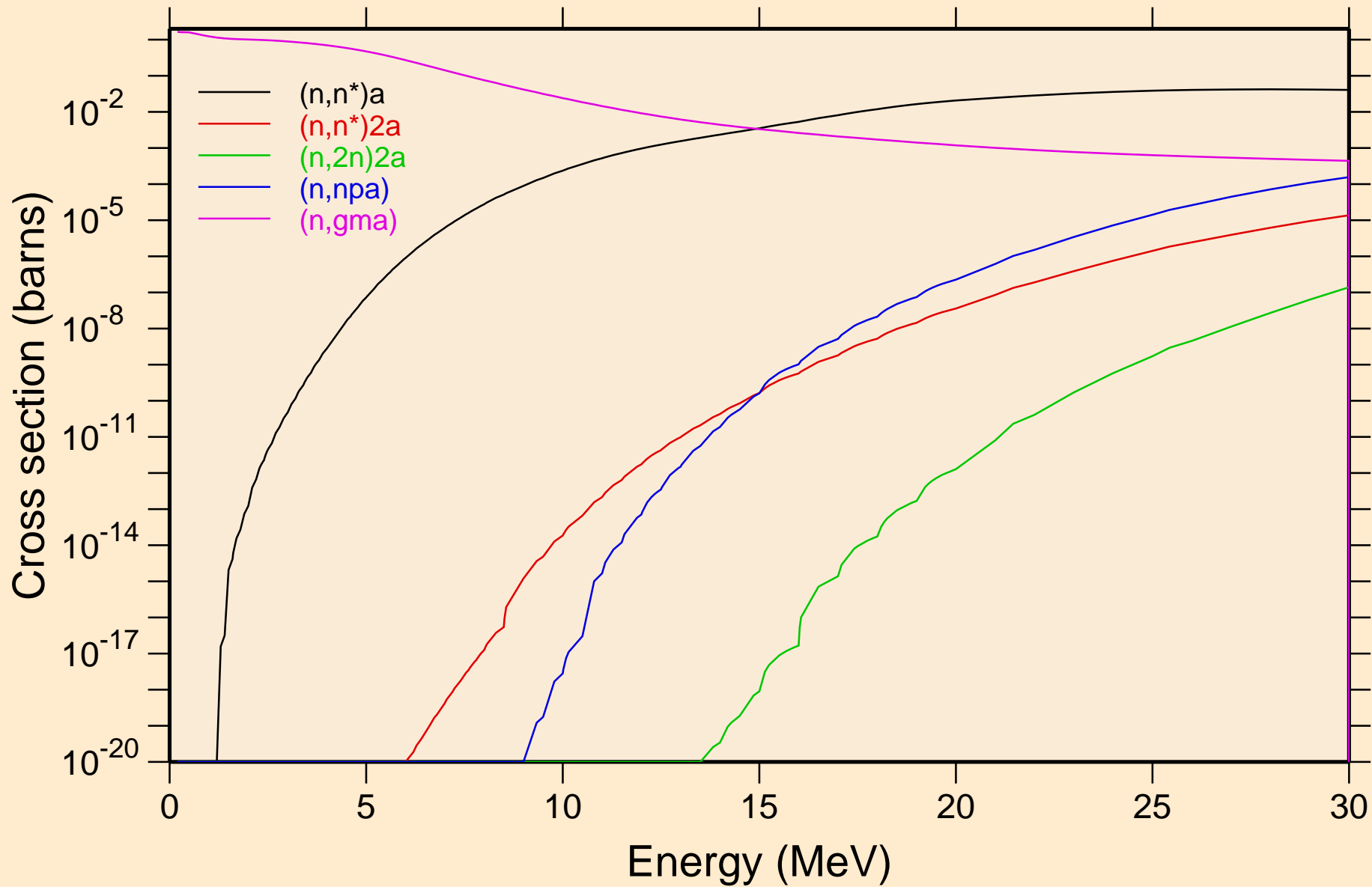
## Damage





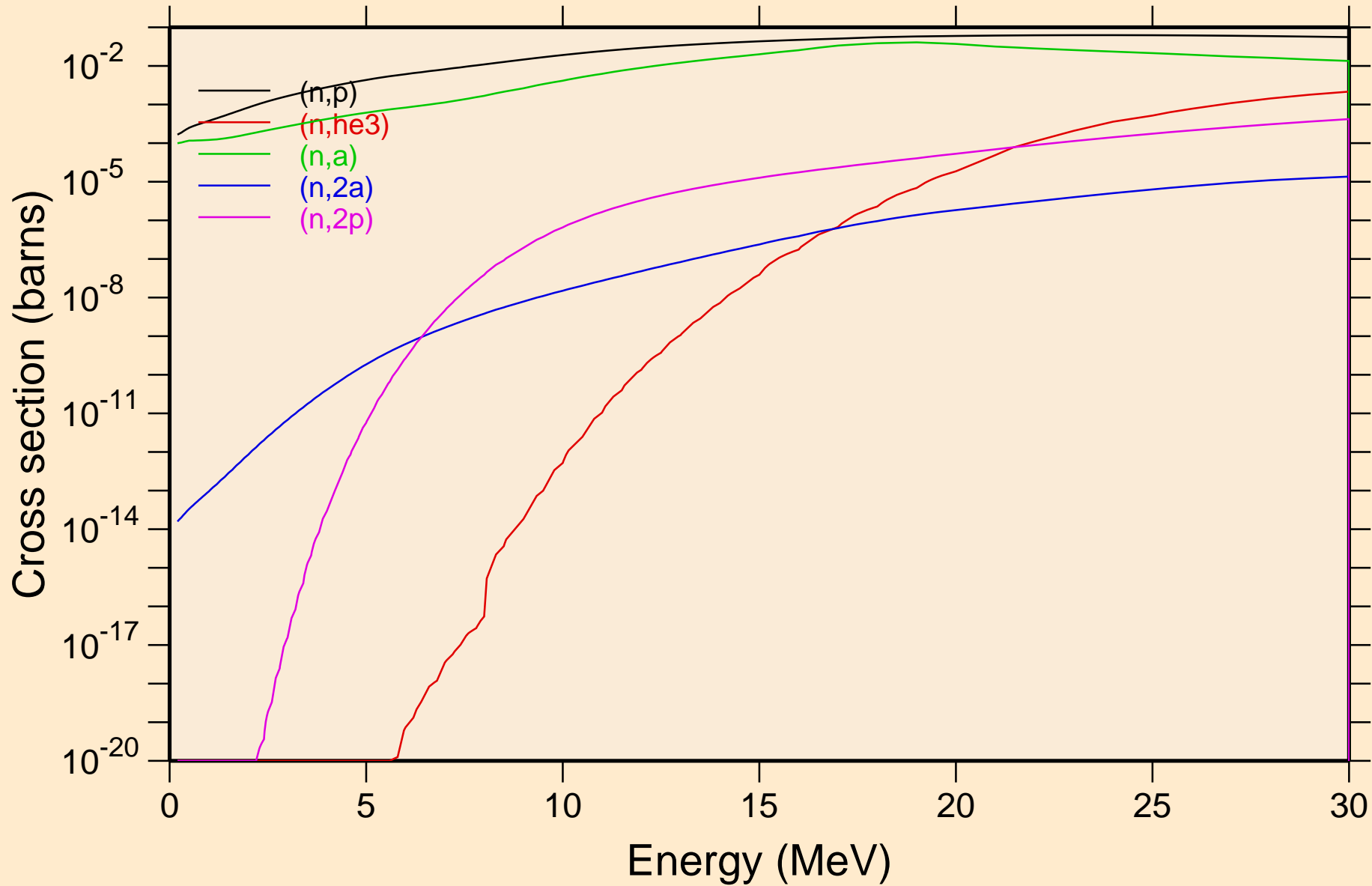
# HG189 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

## Non-threshold reactions



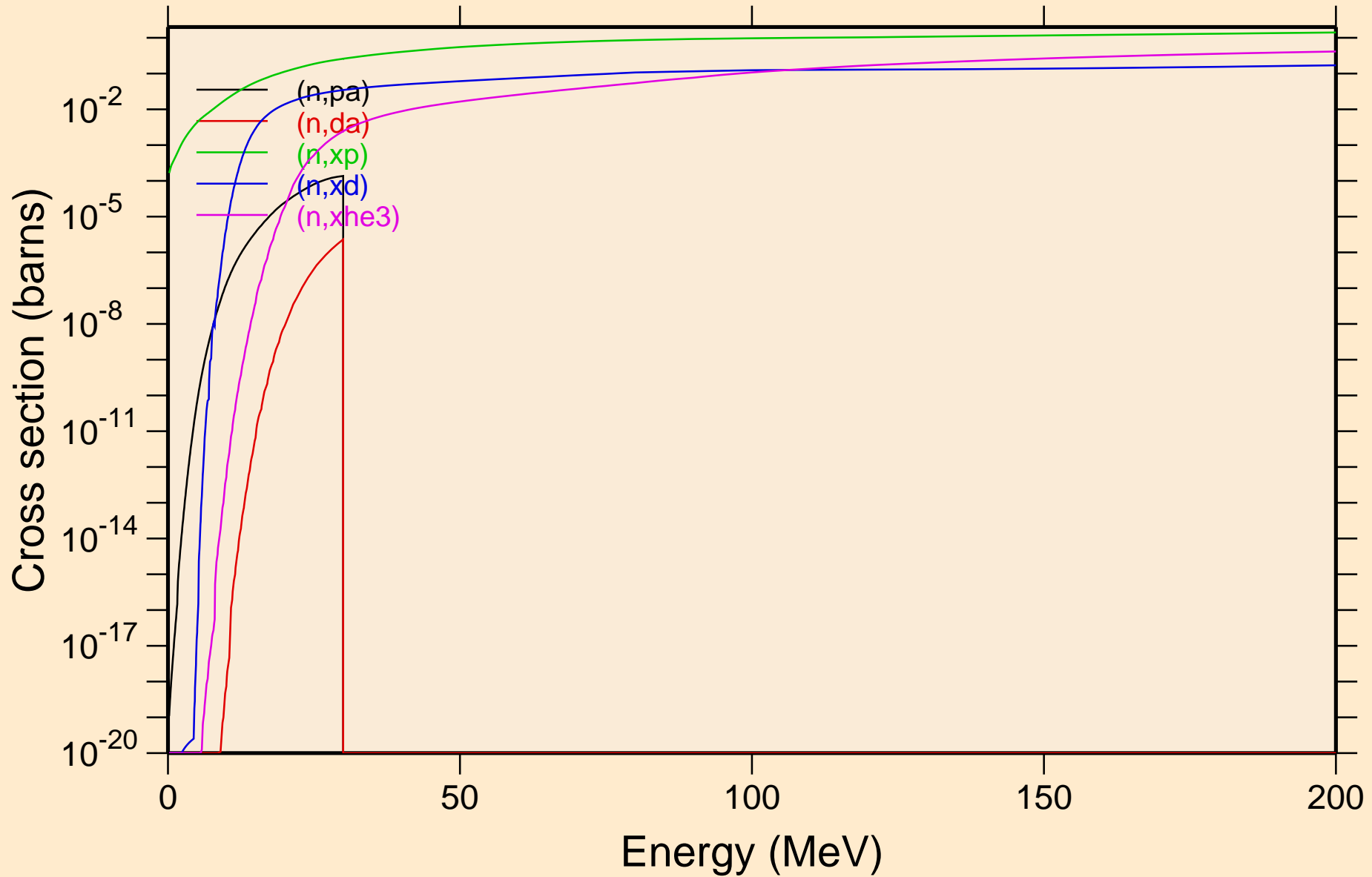
# HG189 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

## Non-threshold reactions

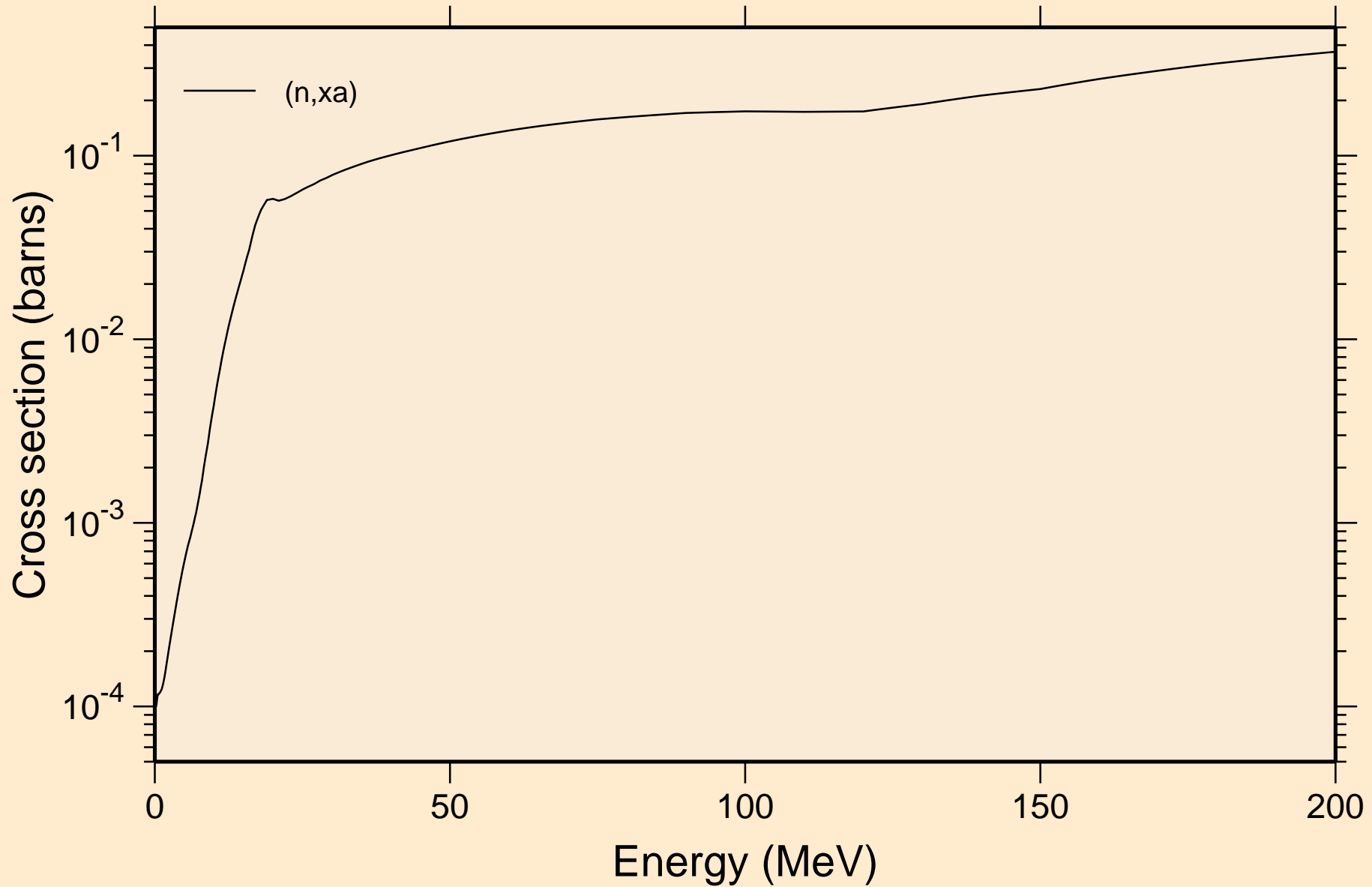


# HG189 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

## Non-threshold reactions

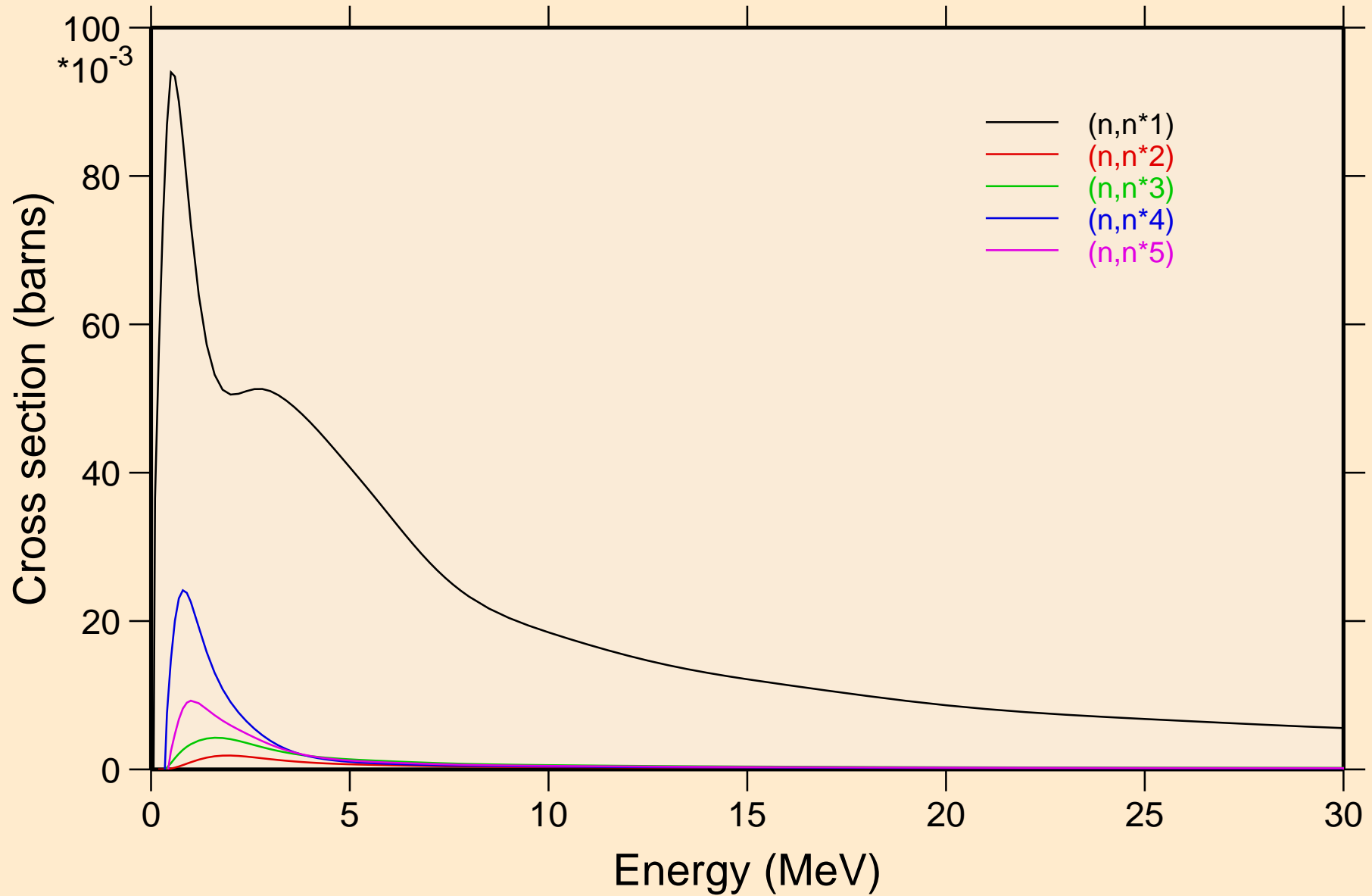


HG189 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Non-threshold reactions

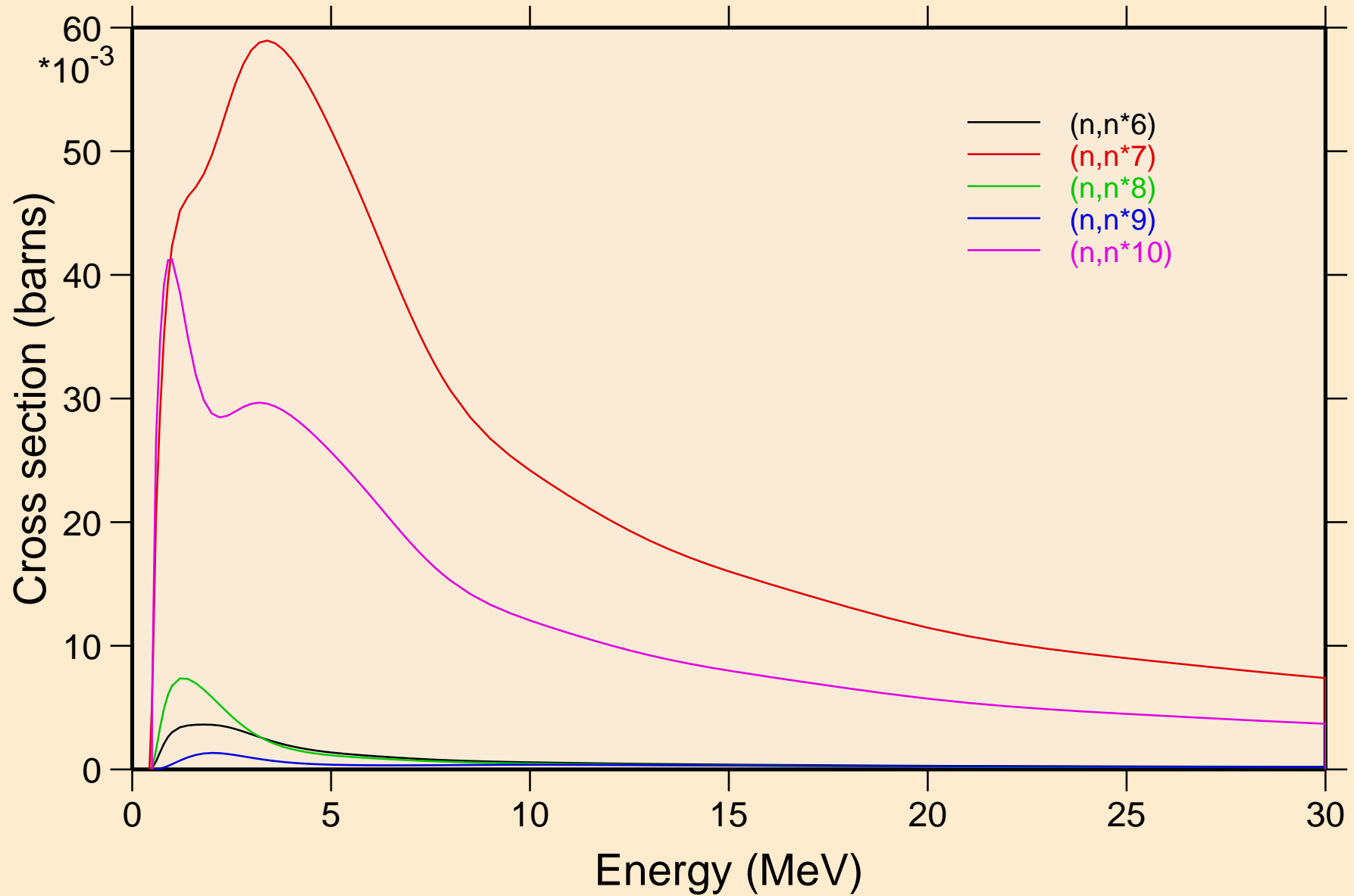


# HG189 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

## Inelastic levels

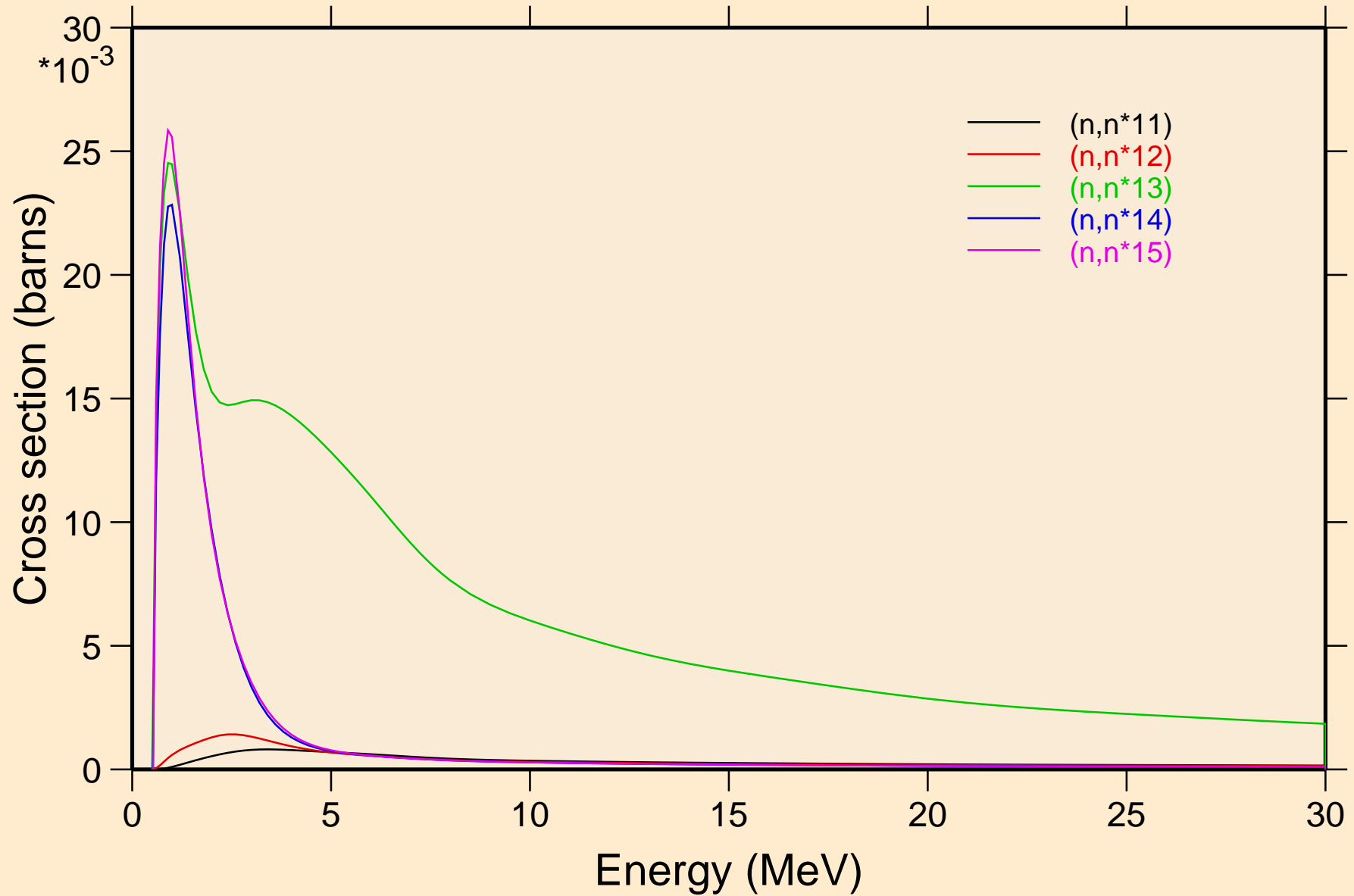


HG189 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Inelastic levels



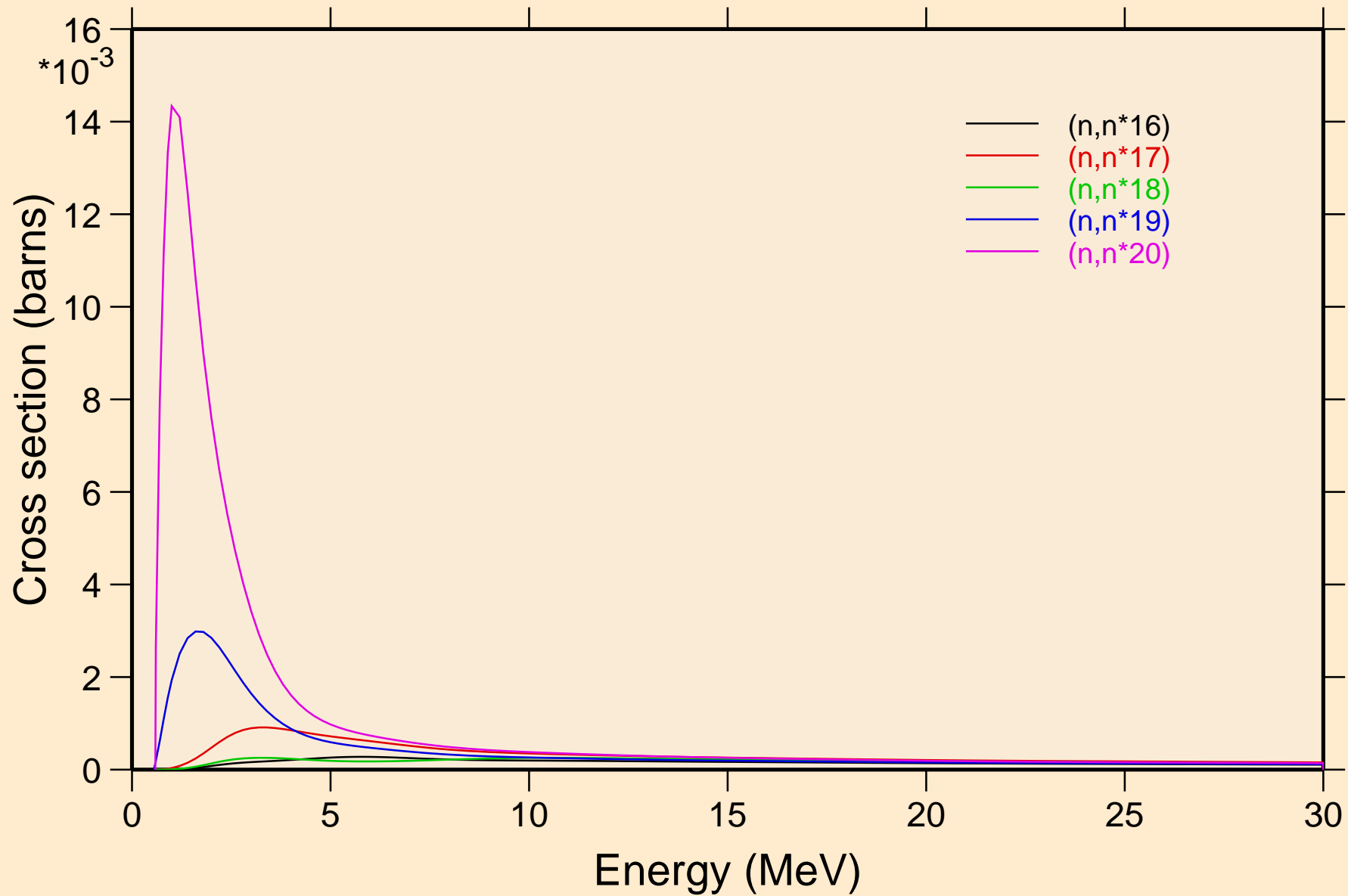
# HG189 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

## Inelastic levels



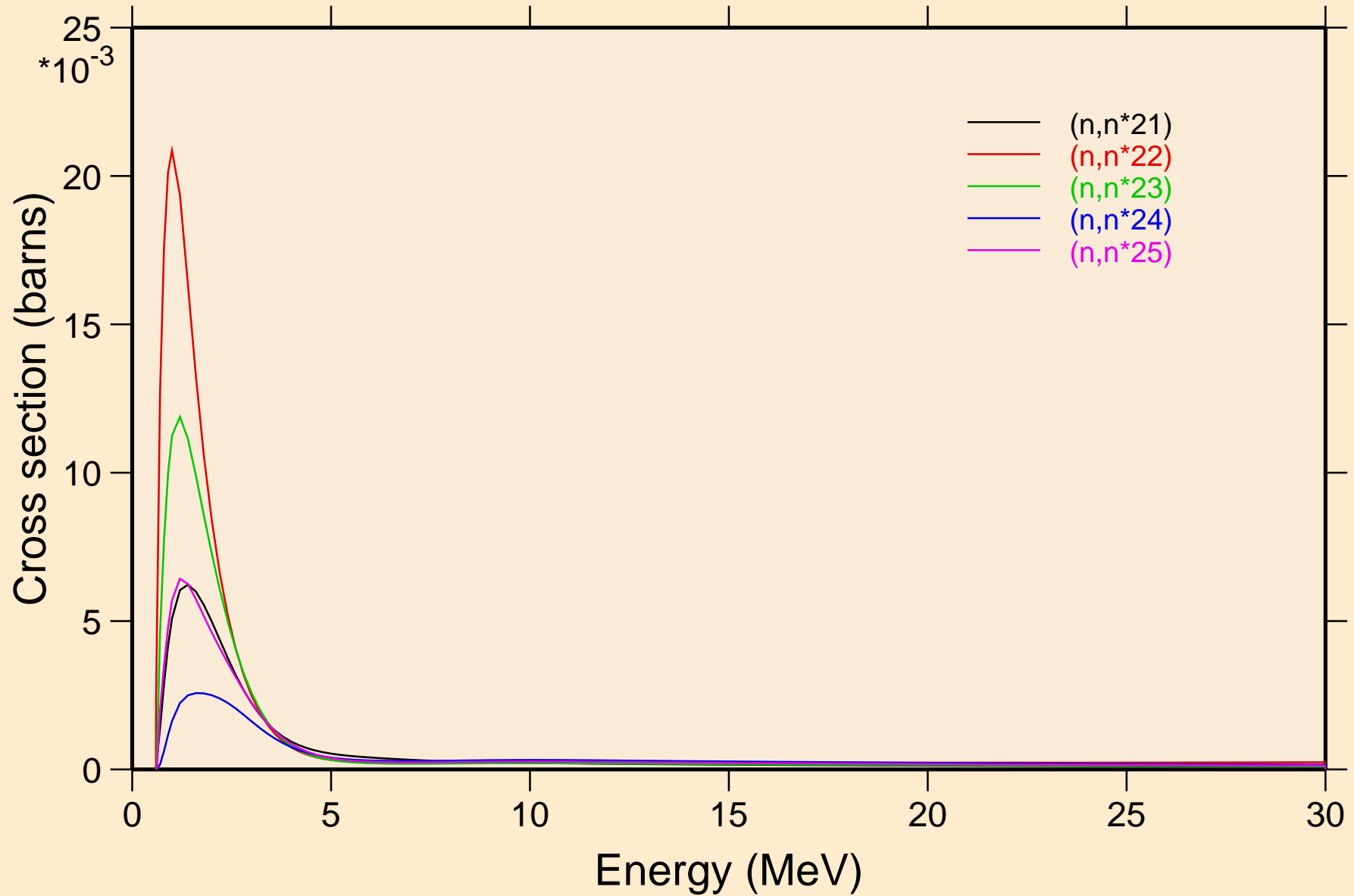
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## Inelastic levels

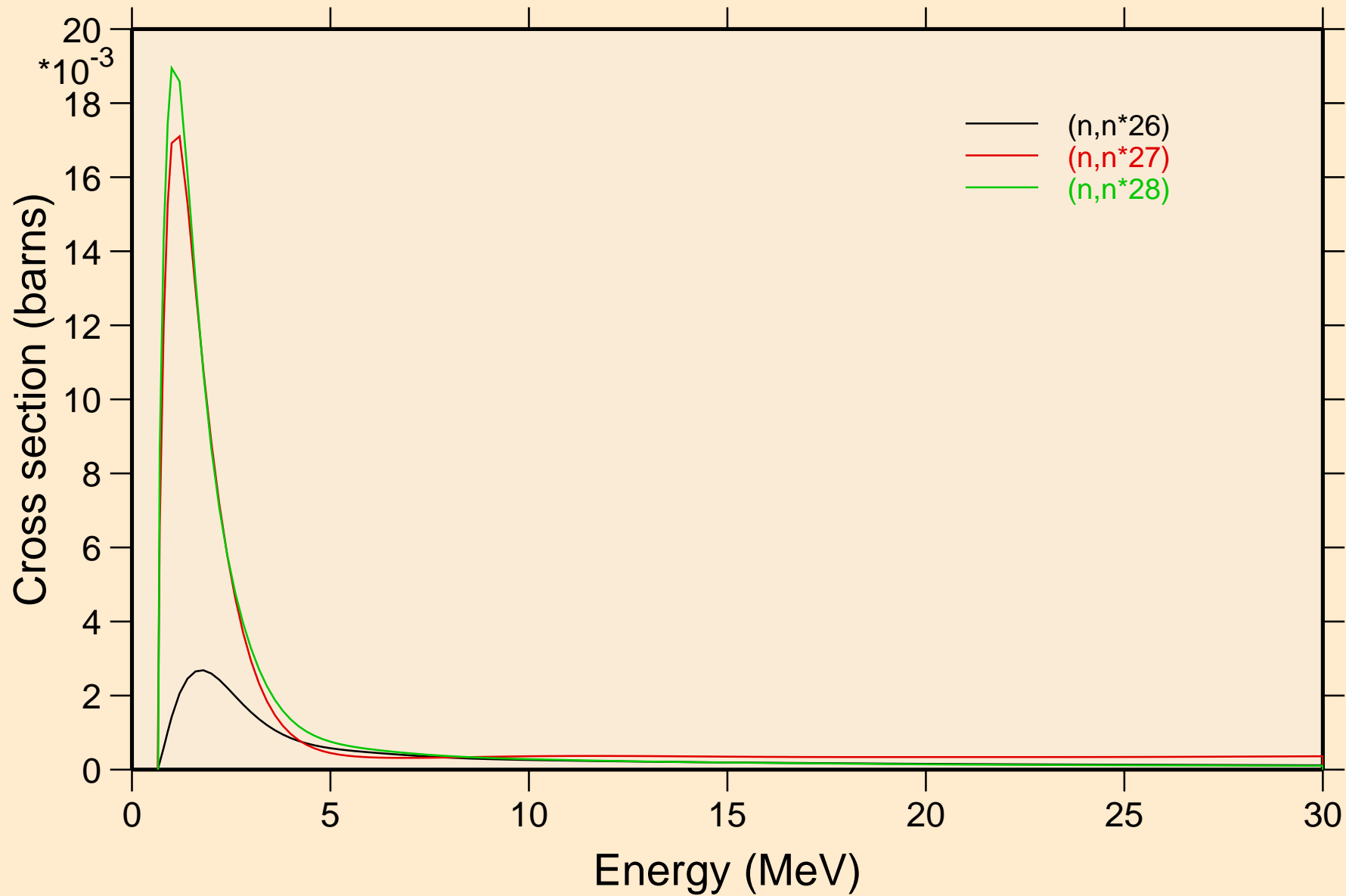




HG189 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Inelastic levels

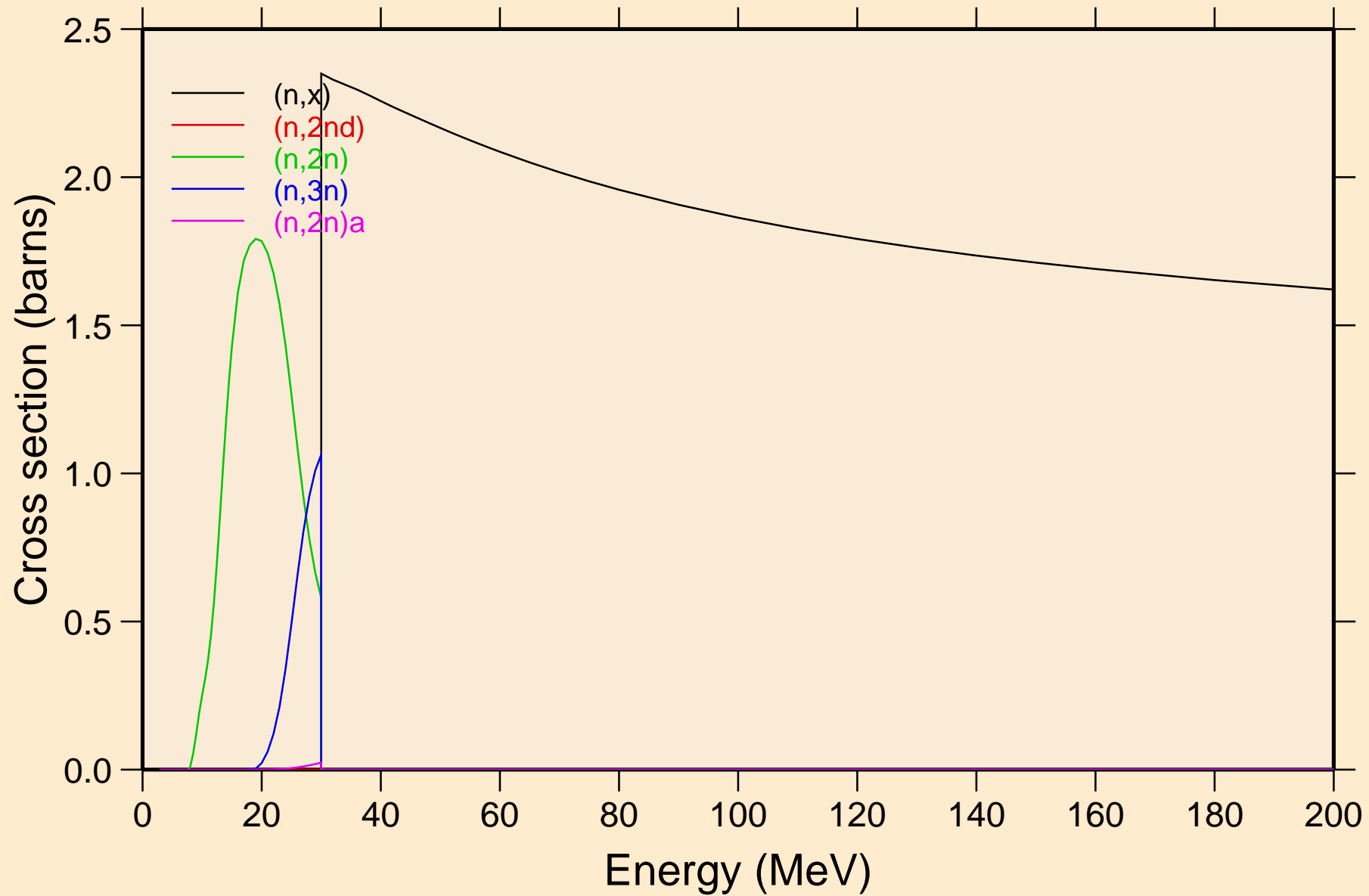


HG189 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Inelastic levels



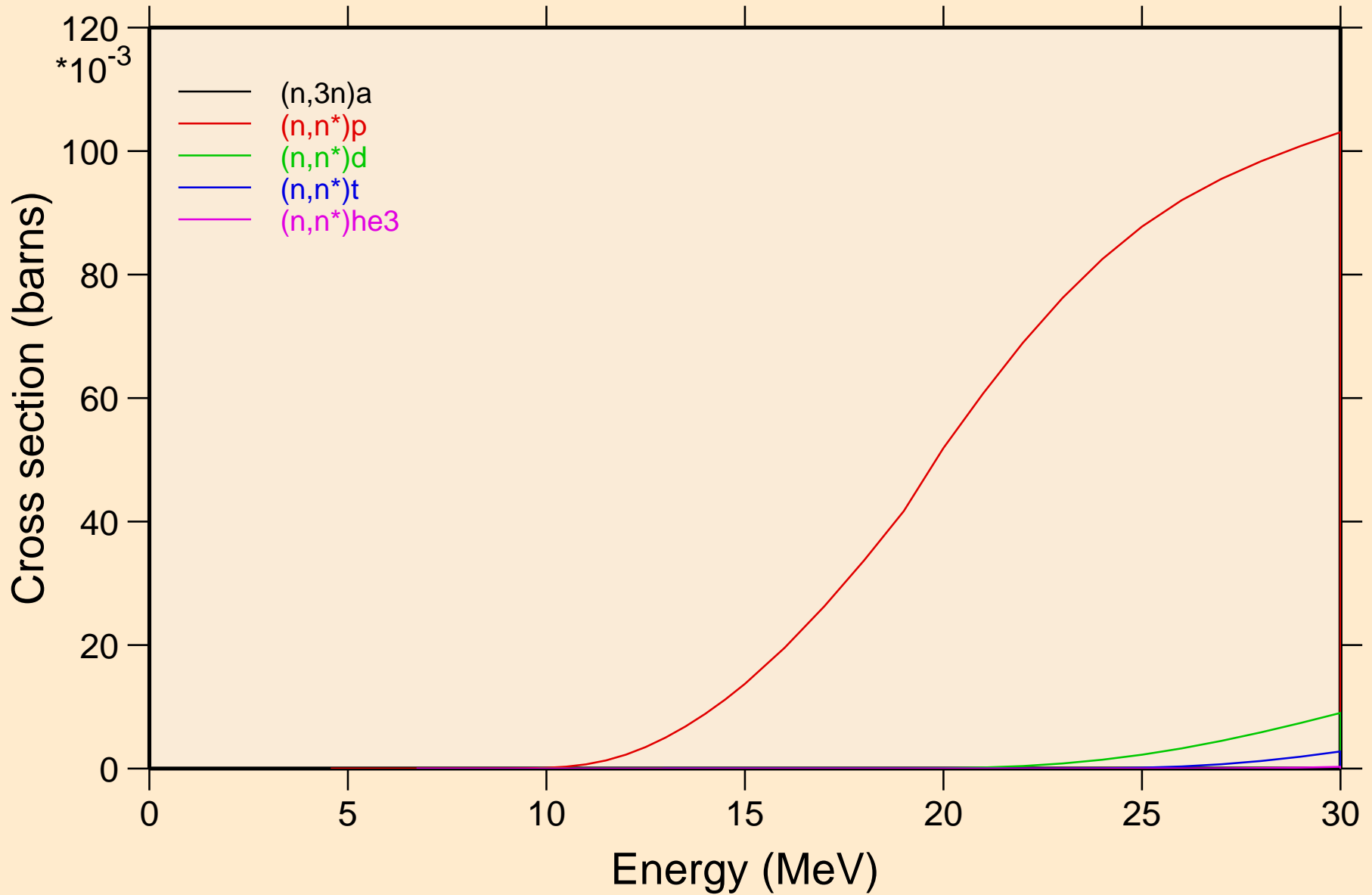
# HG189 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

## Threshold reactions



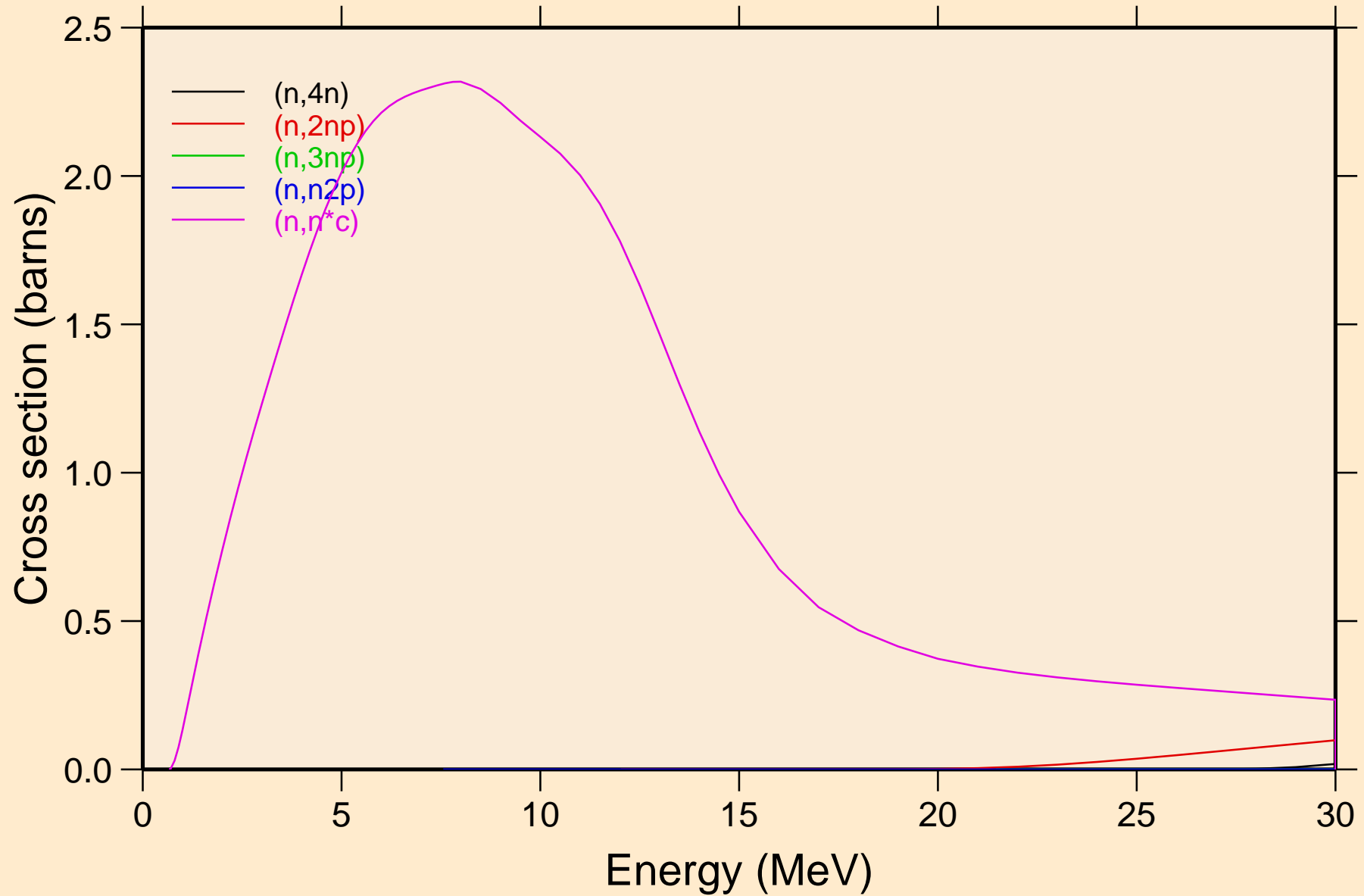
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## Threshold reactions



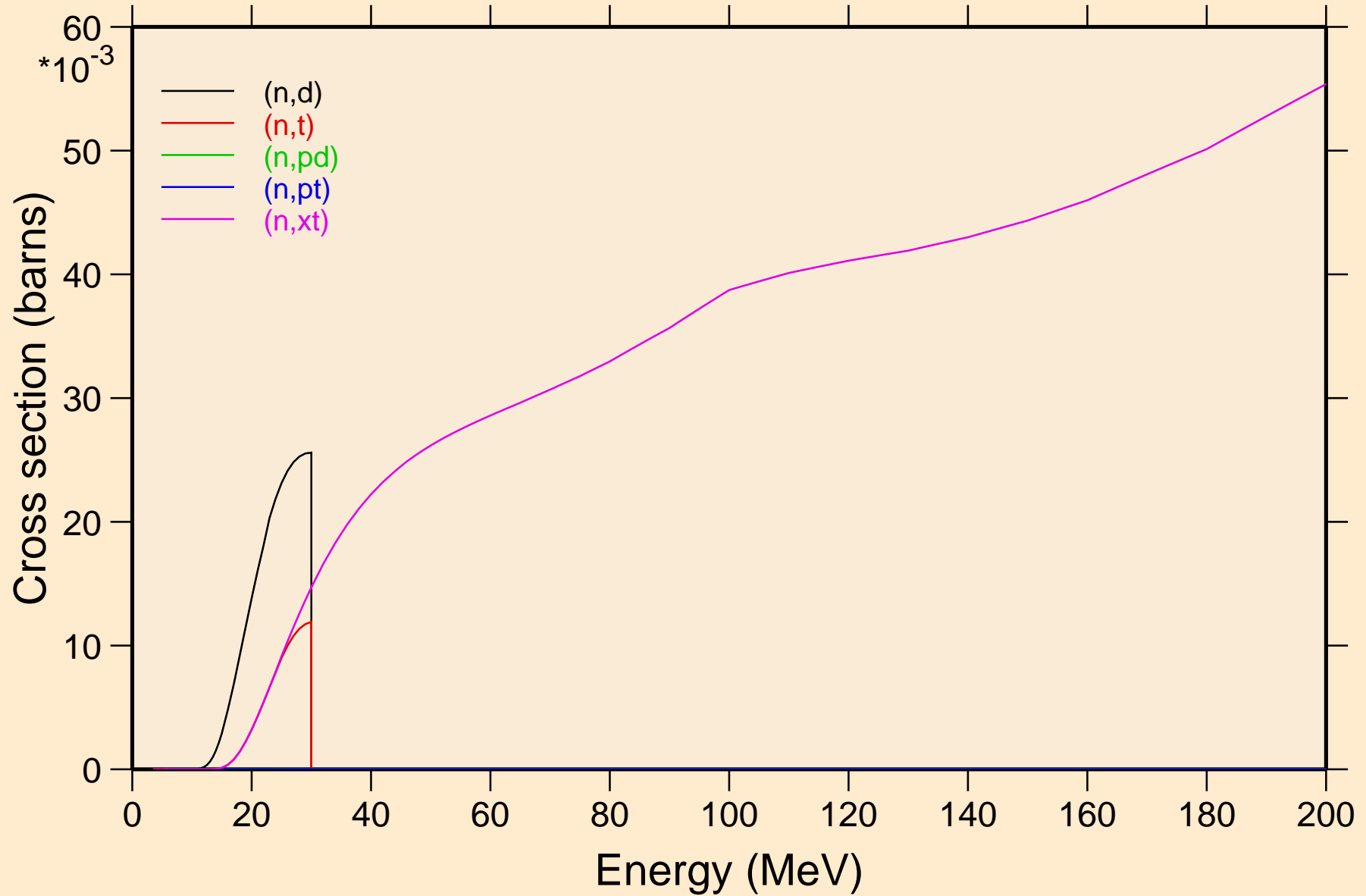
# HG189 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

## Threshold reactions

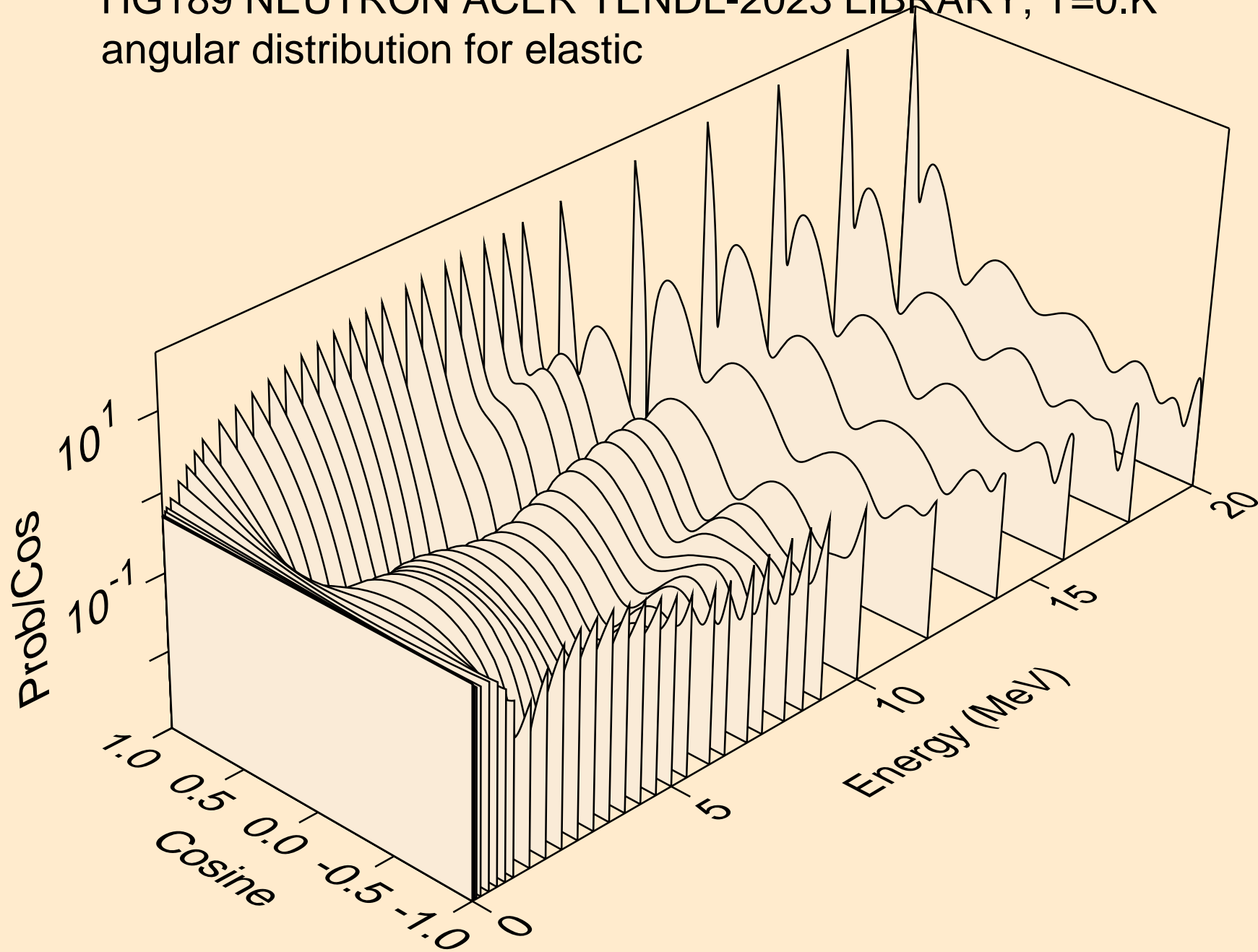


# HG189 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

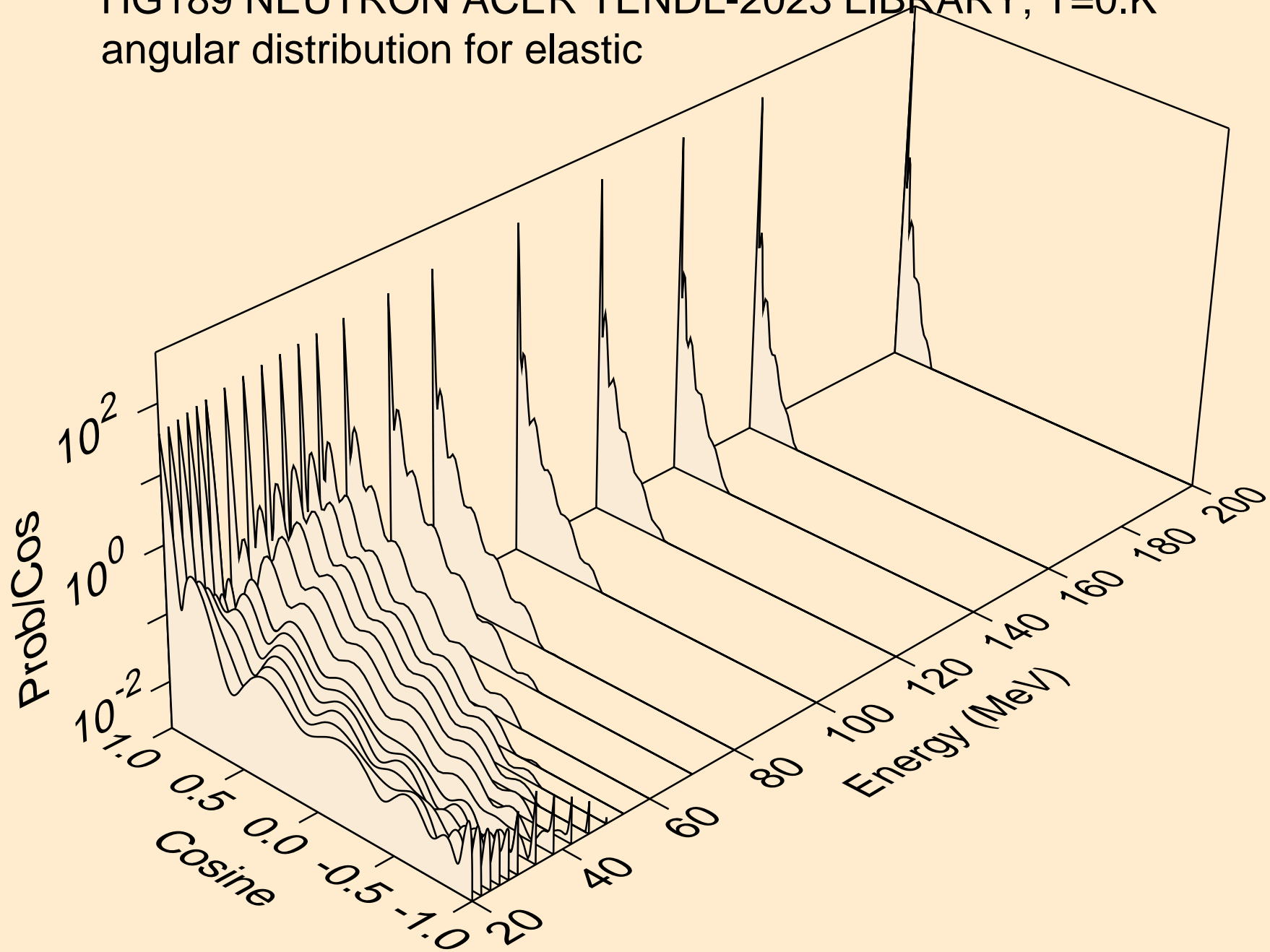
## Threshold reactions



HG189 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for elastic

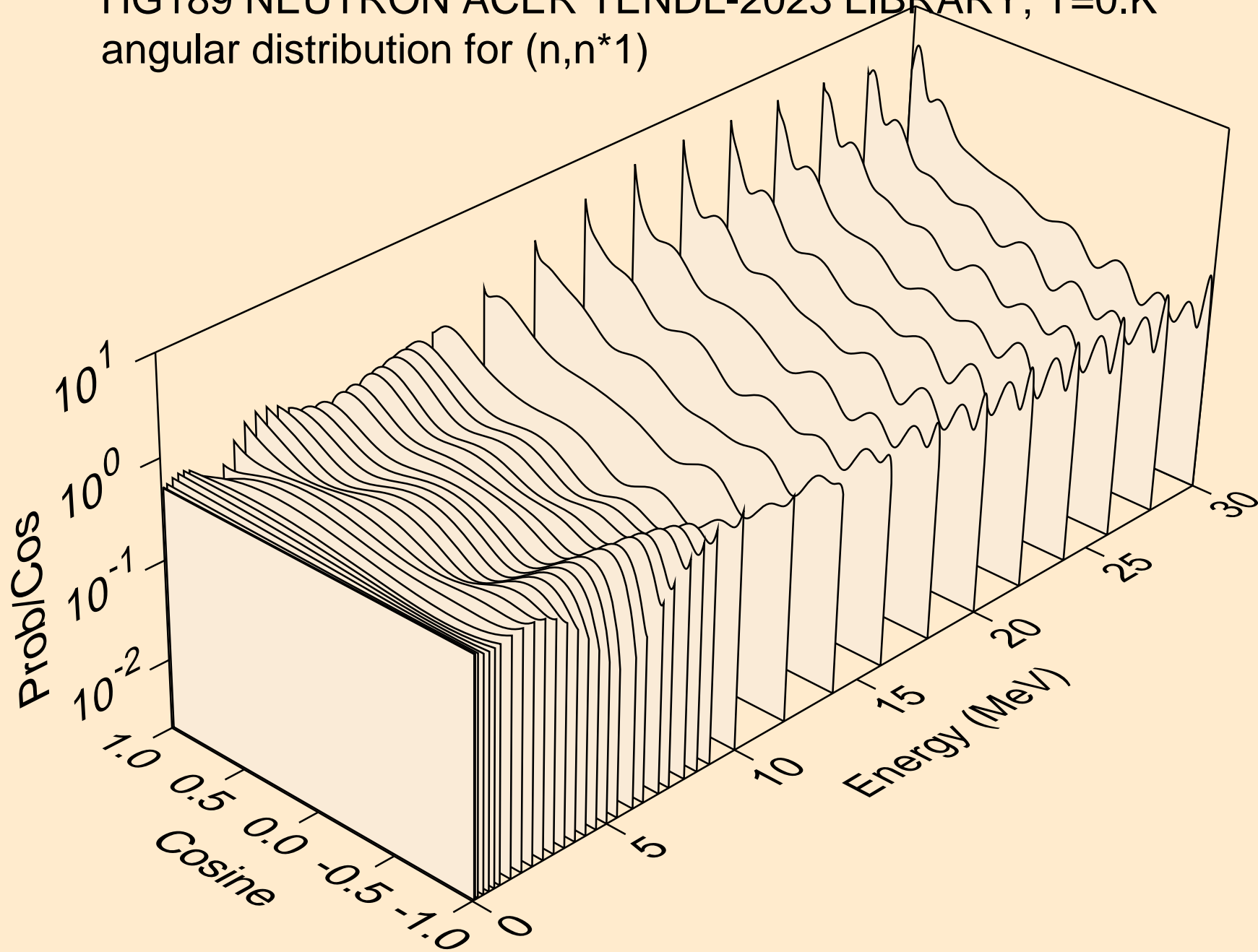


HG189 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for elastic

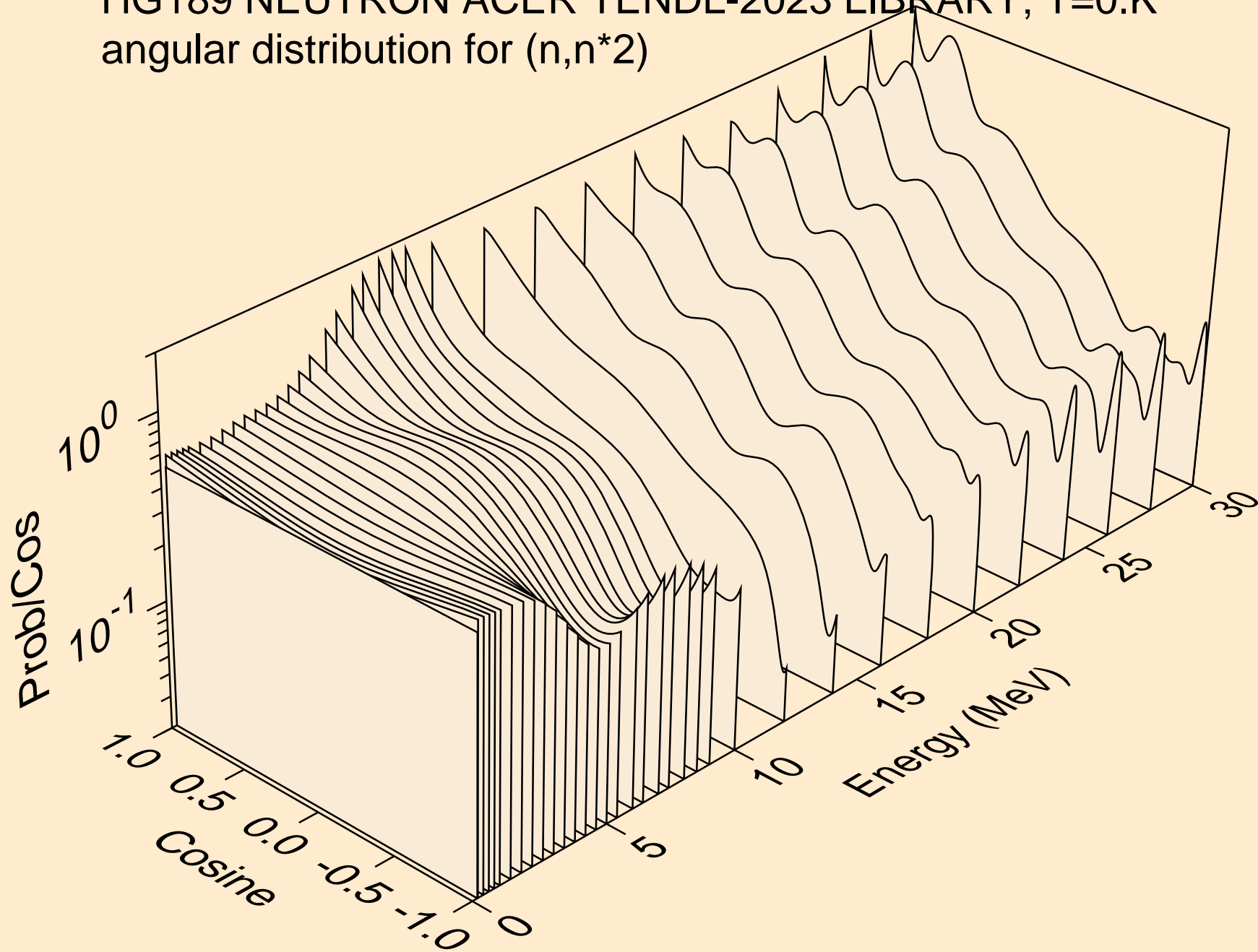




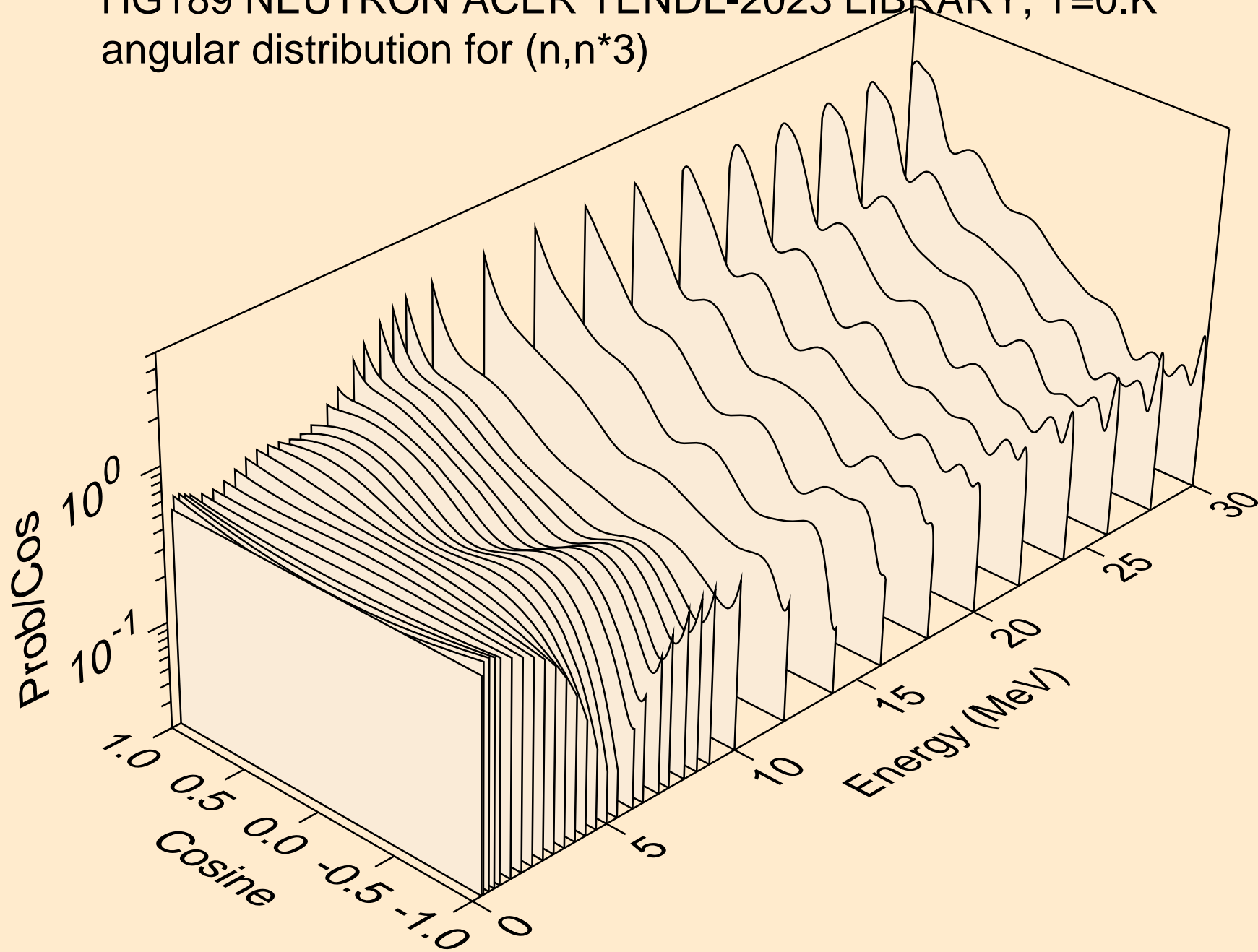
HG189 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*1)



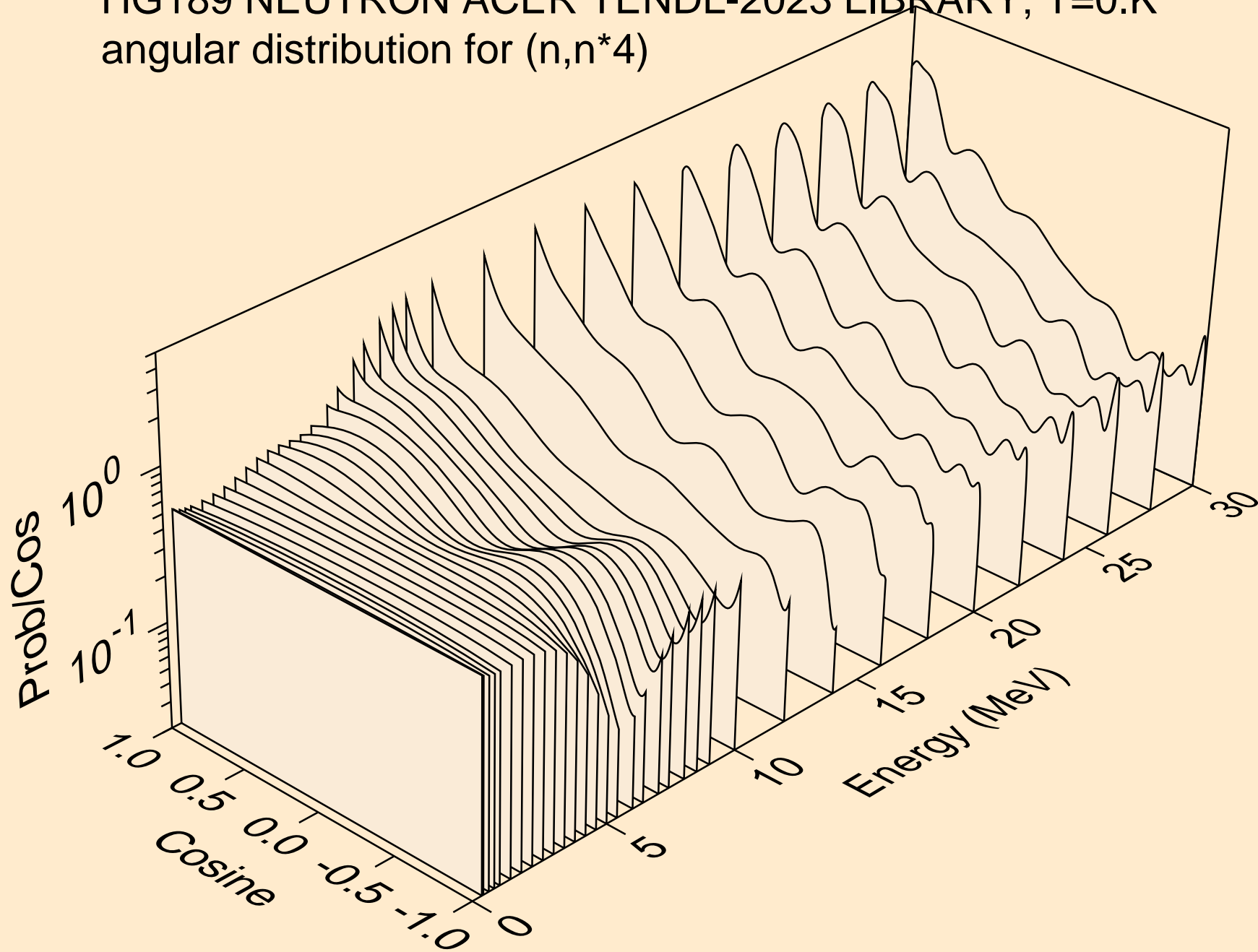
HG189 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*2)



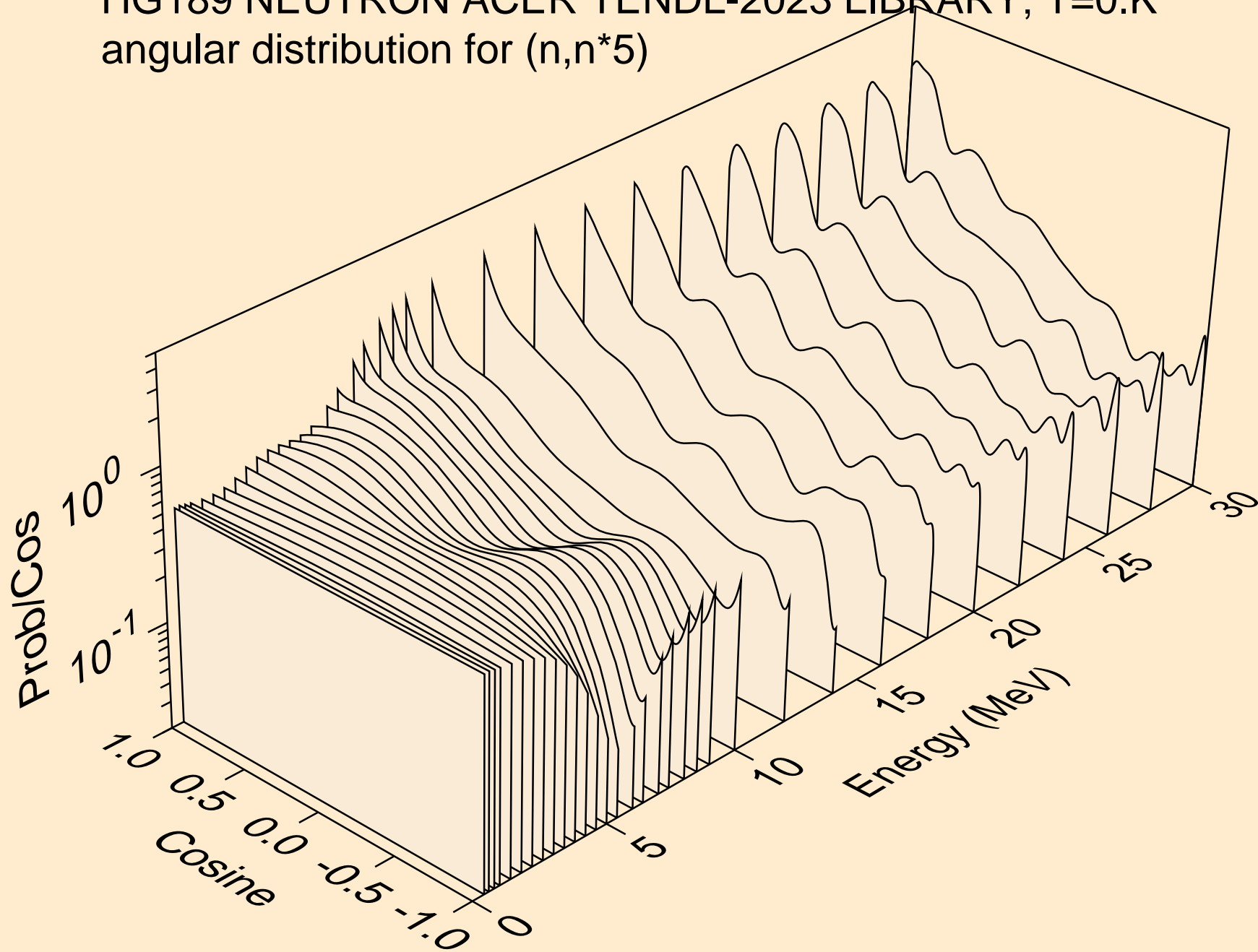
HG189 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*3)



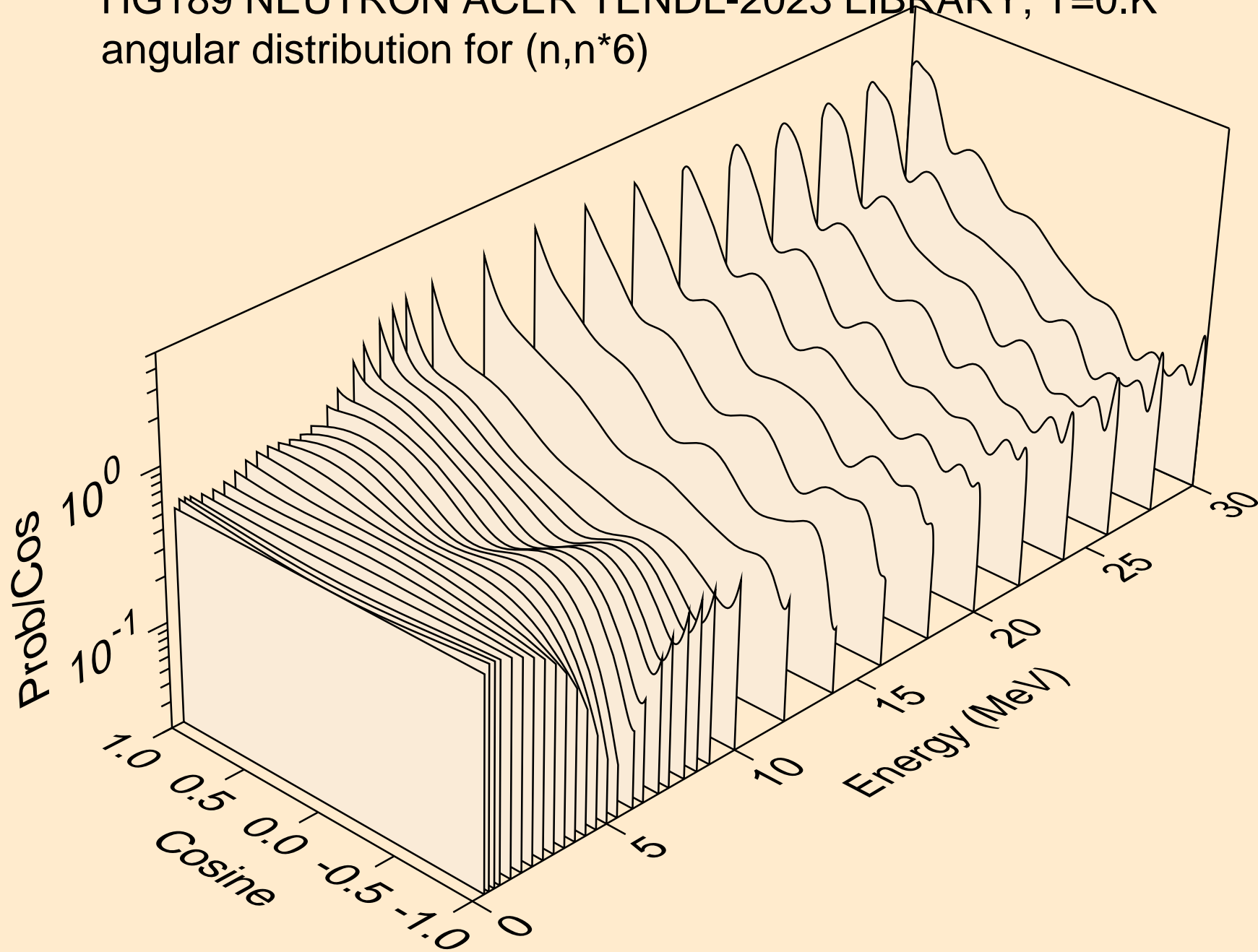
HG189 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*4)



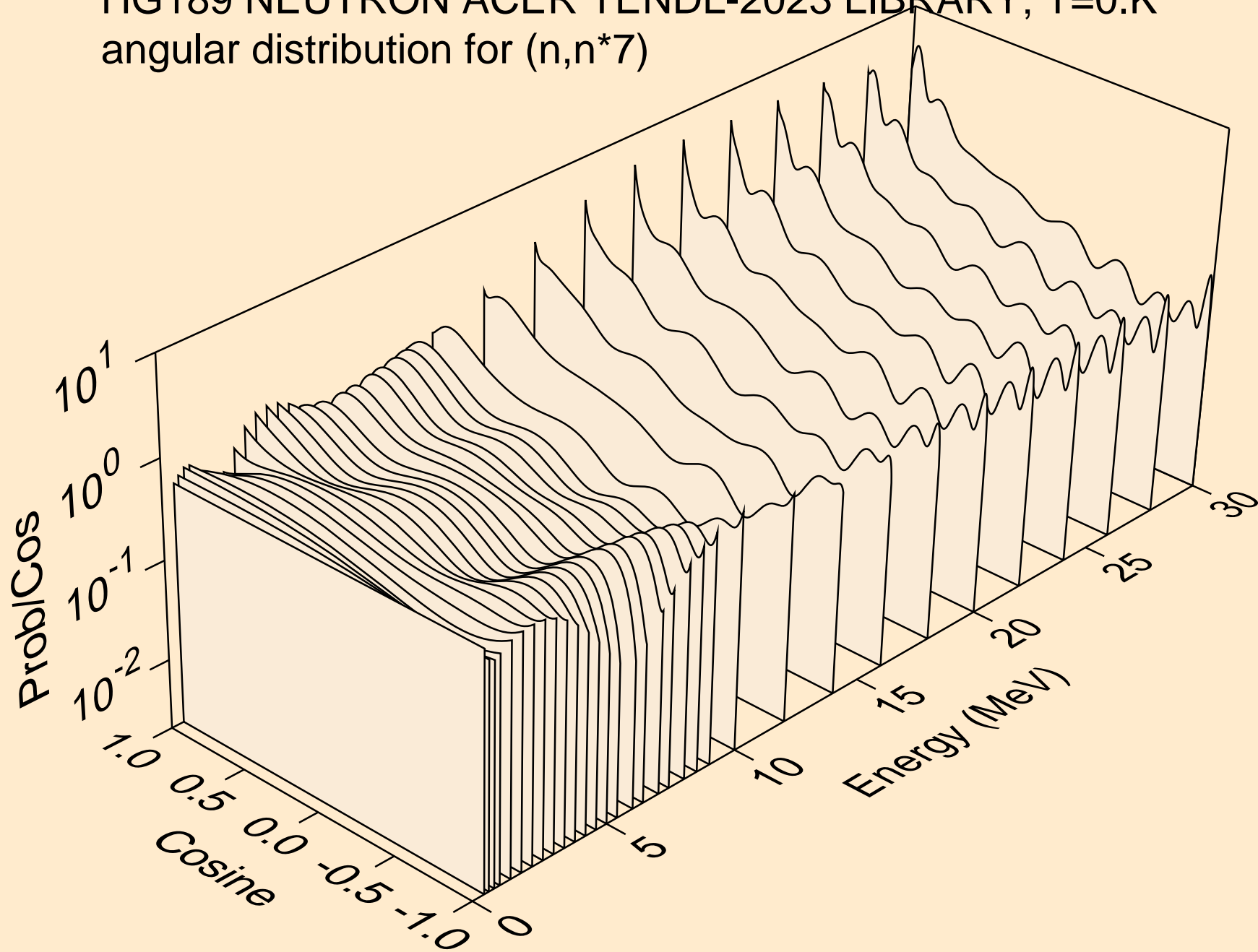
HG189 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*5)



HG189 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*6)

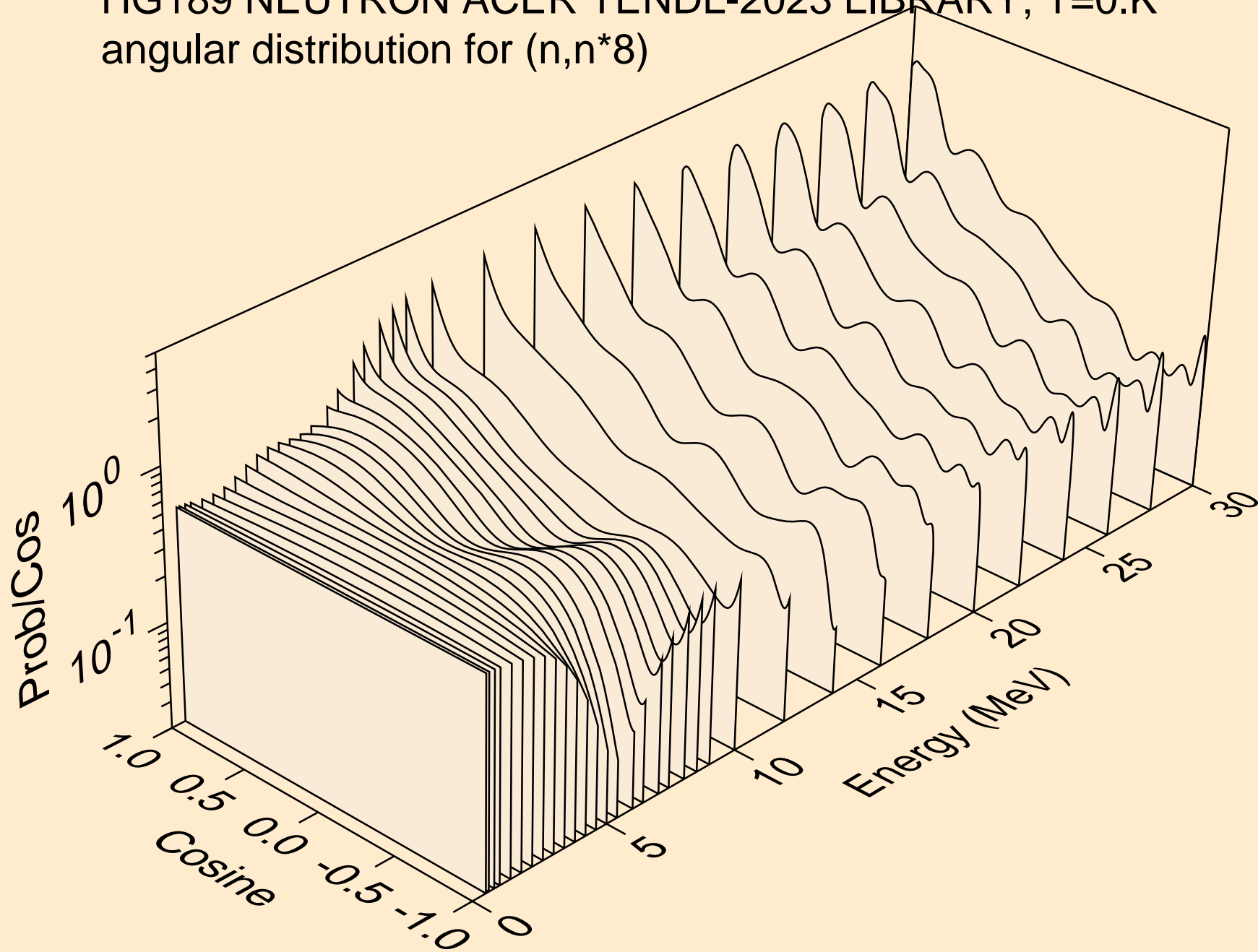


HG189 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*7)



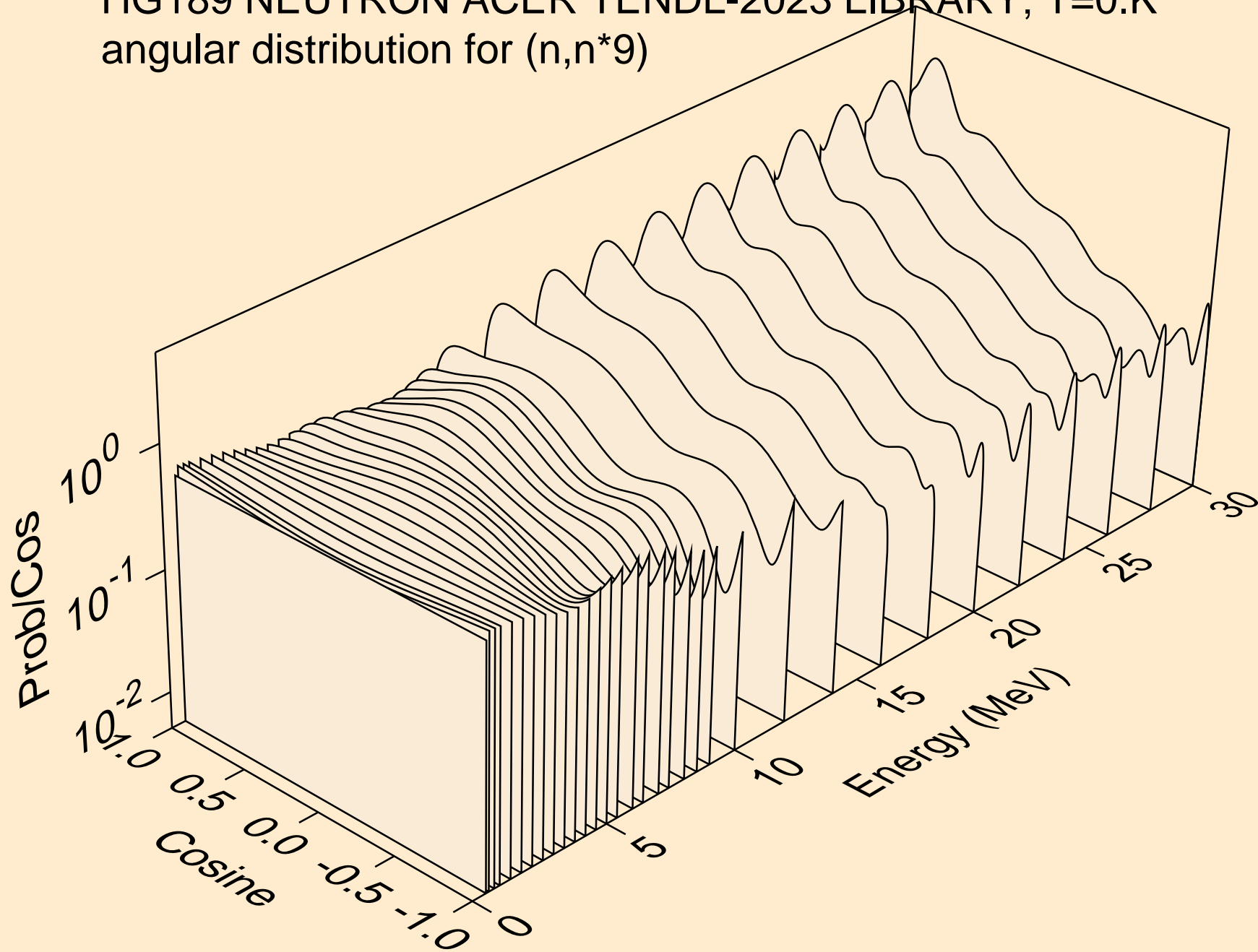


HG189 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*8)

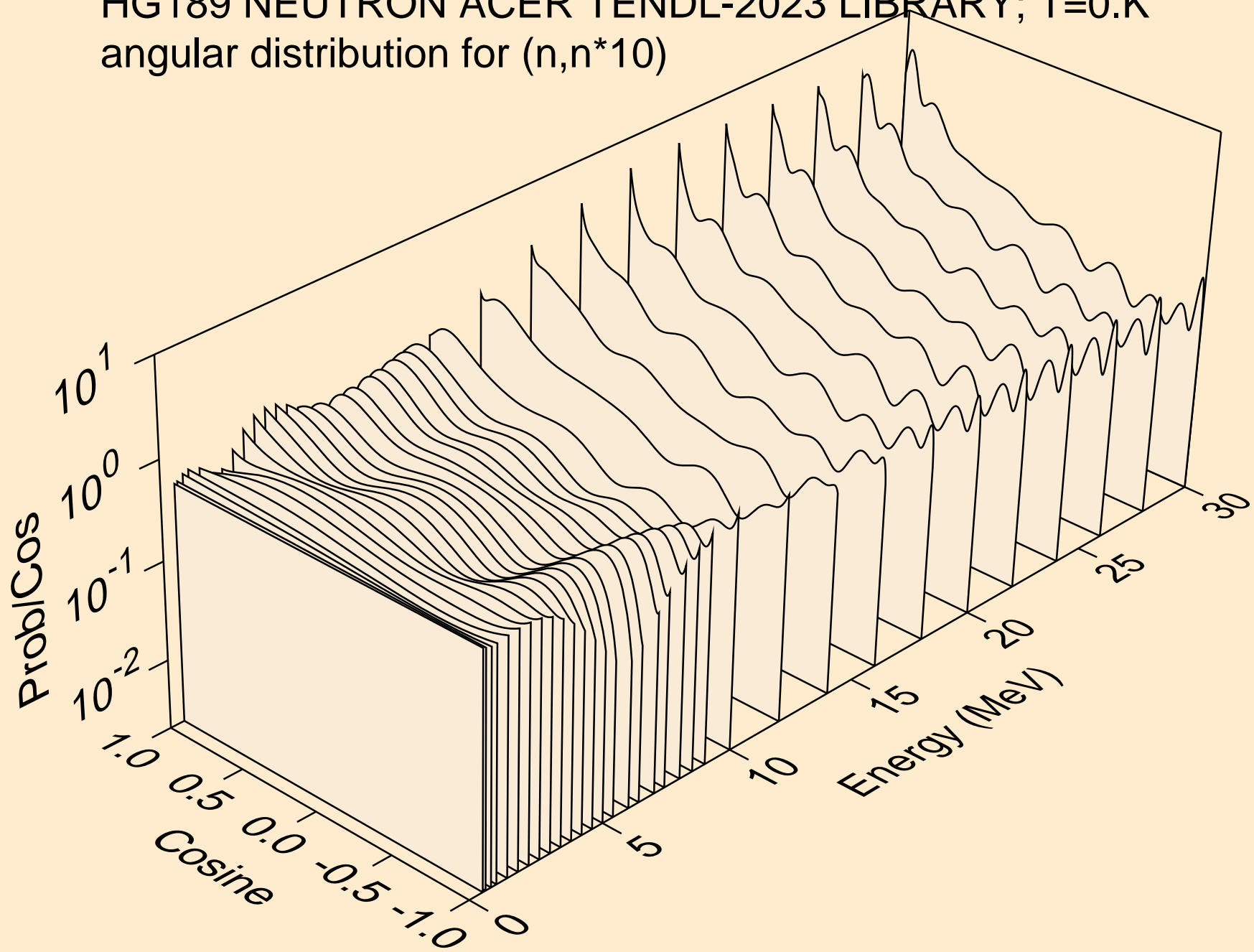




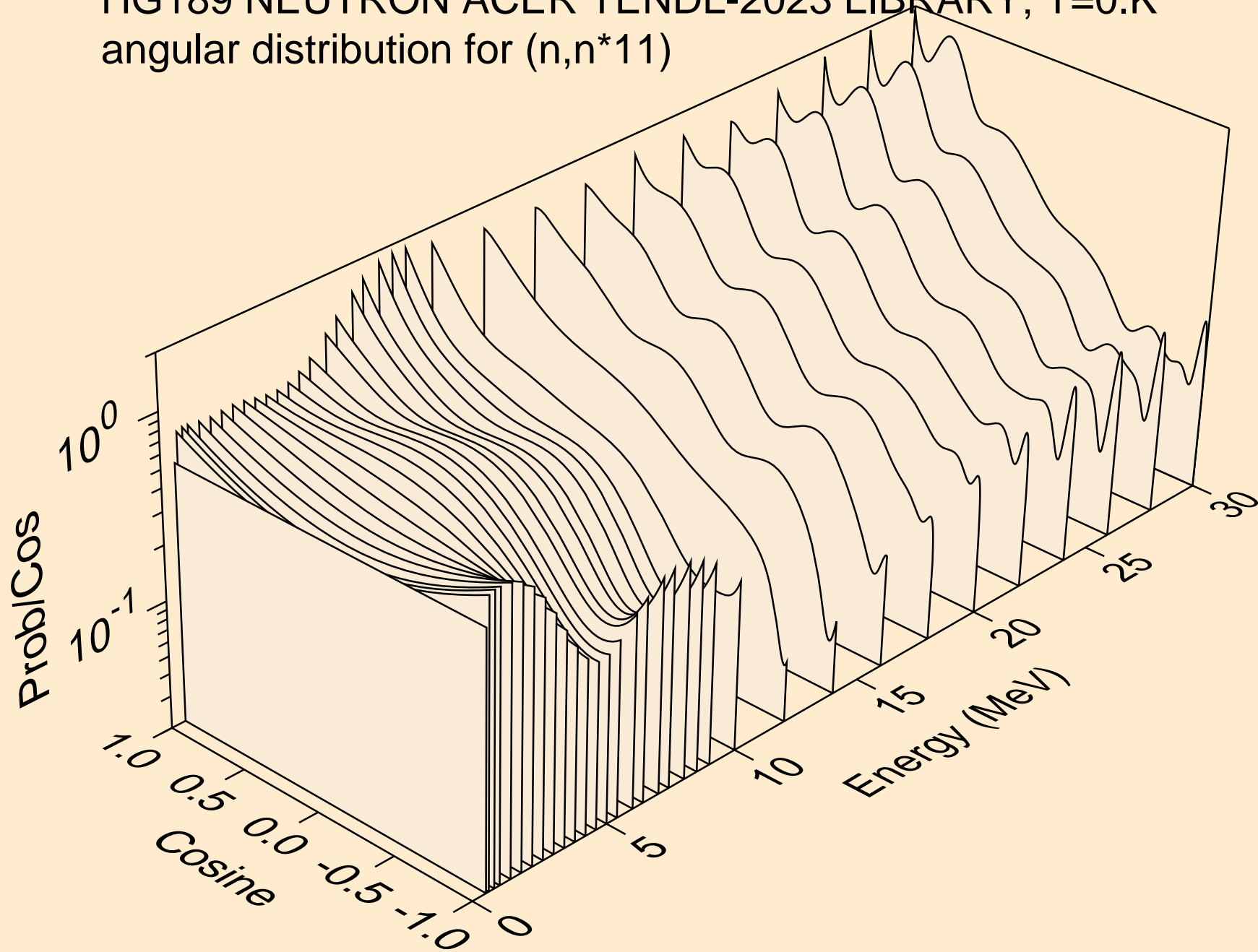
HG189 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*9)



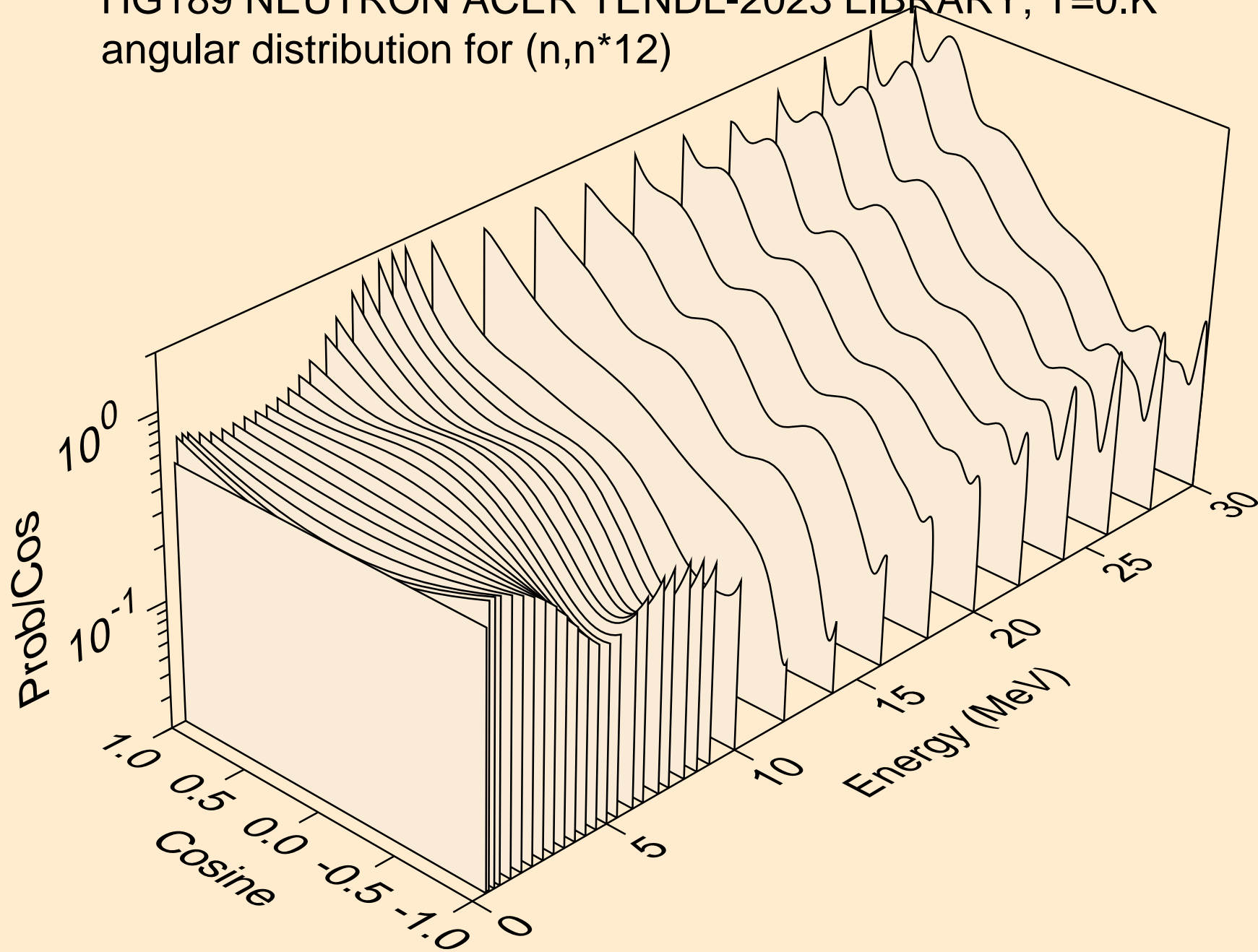
HG189 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*10)



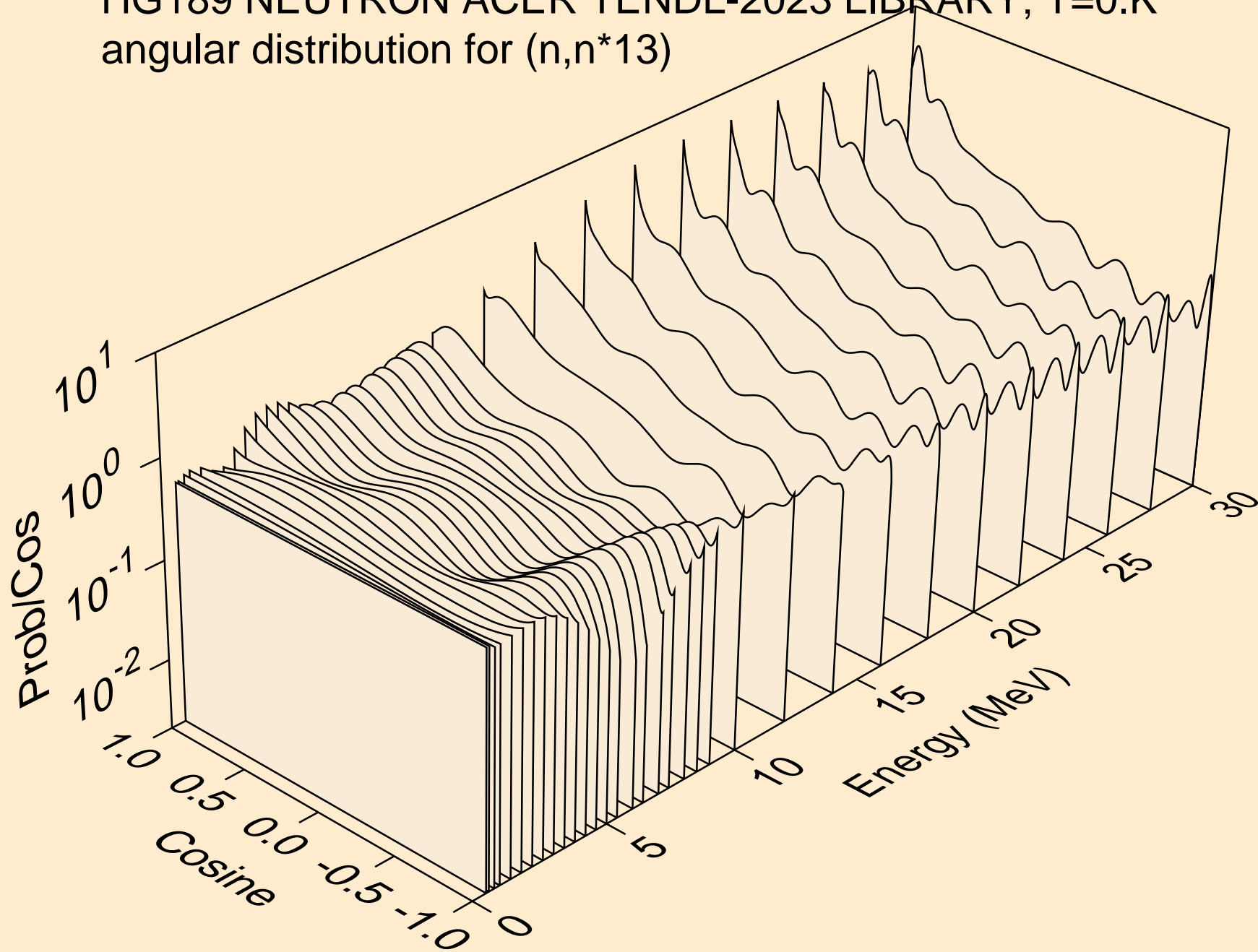
HG189 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*11)



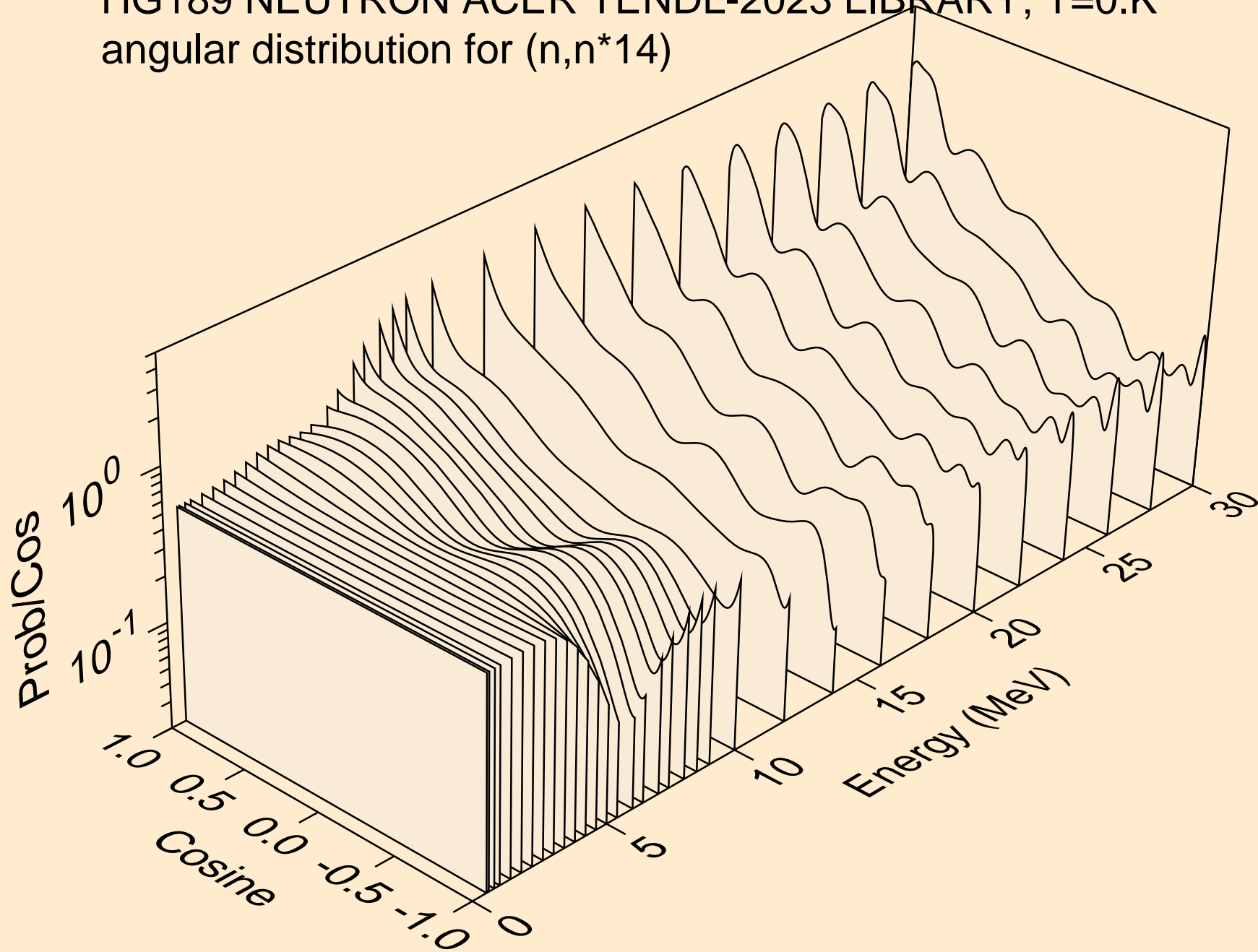
HG189 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*12)



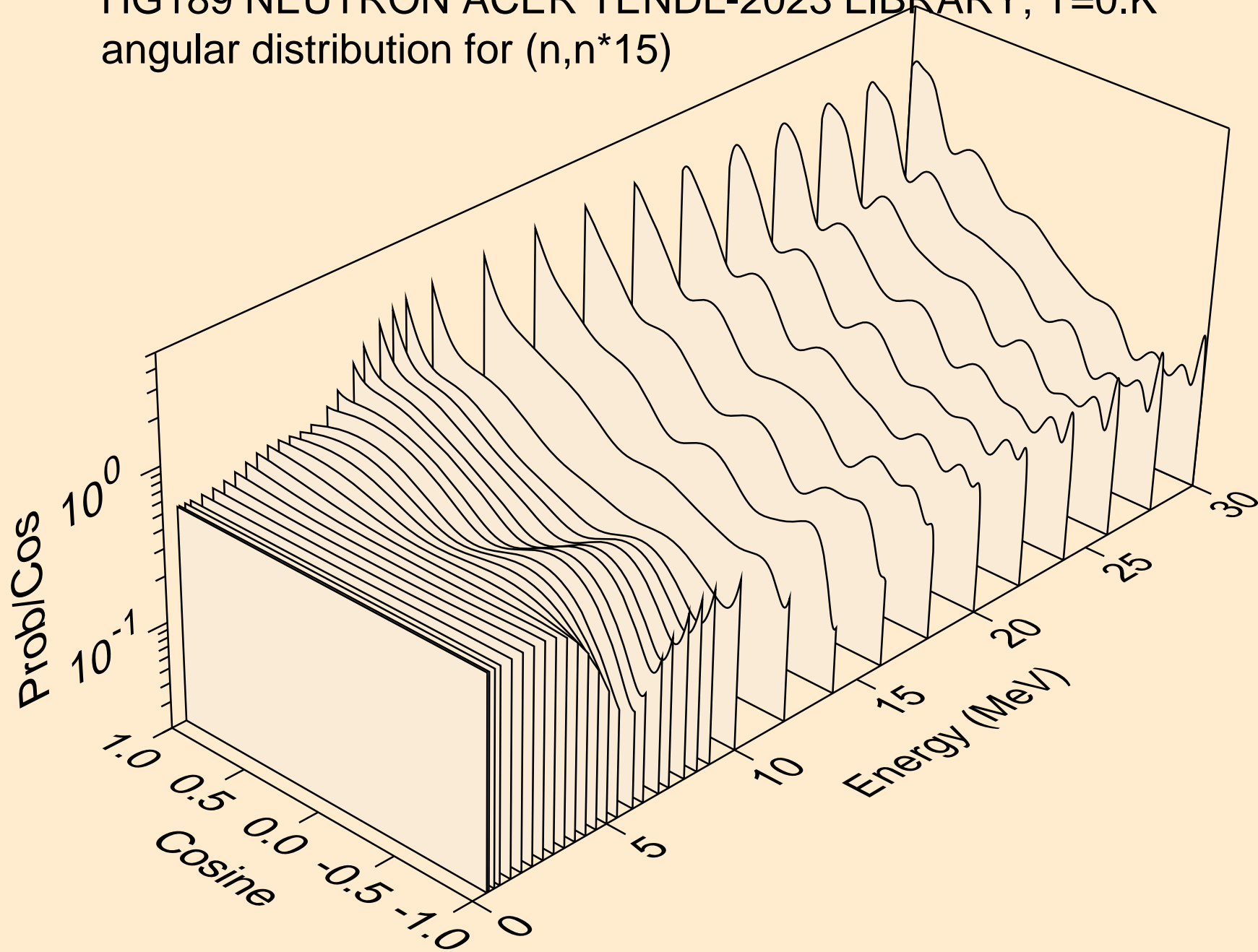
HG189 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*13)



HG189 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*14)

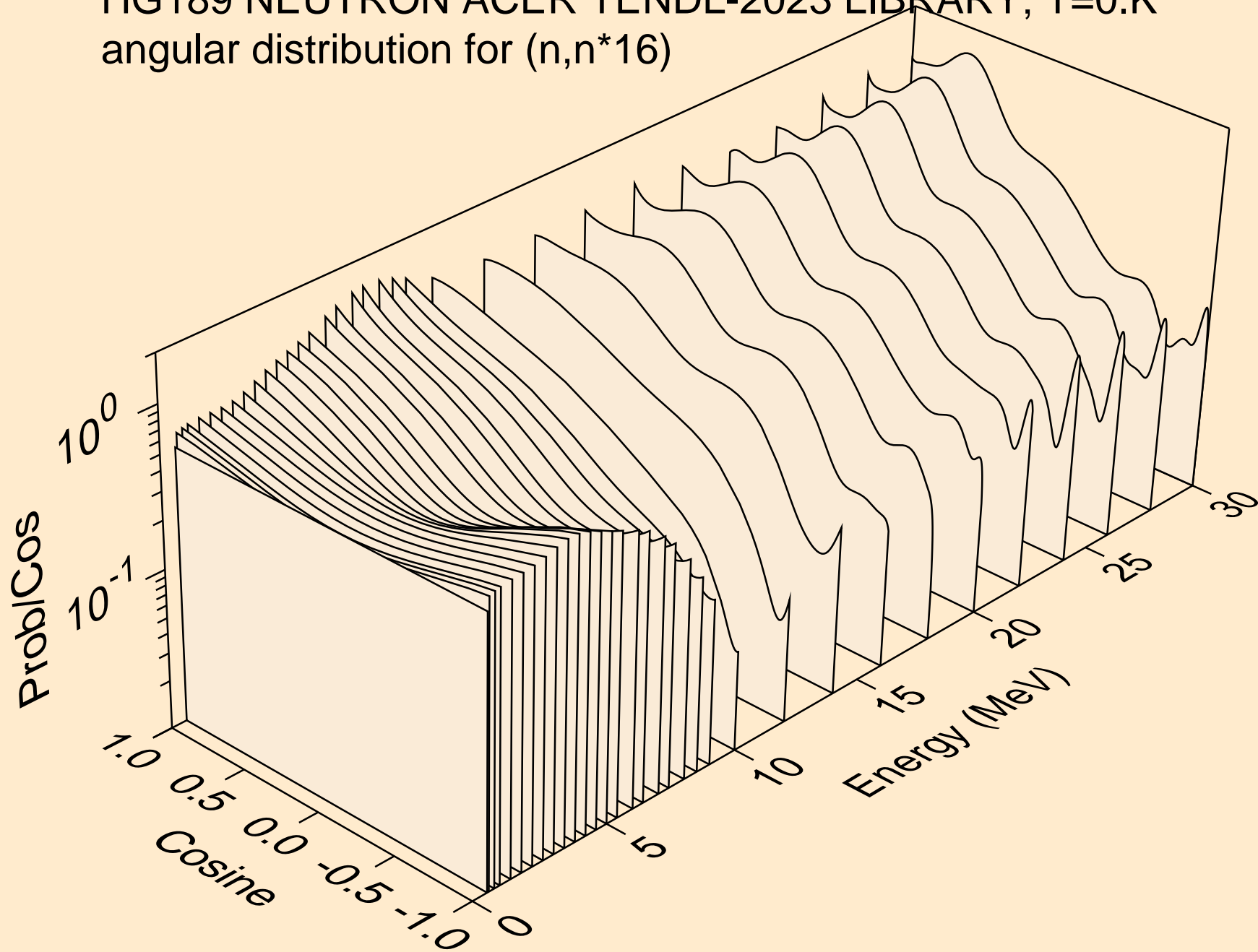


HG189 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*15)



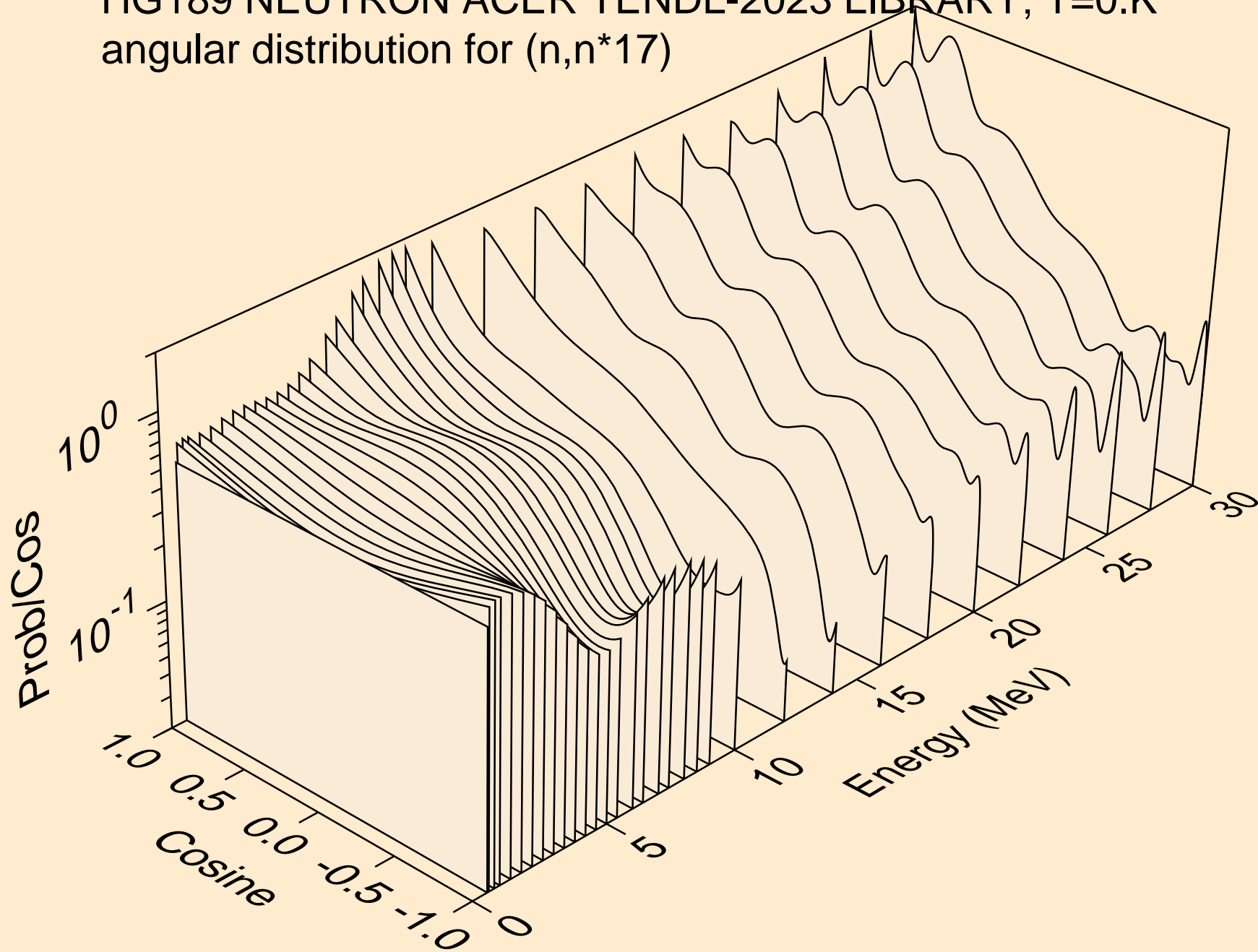


HG189 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*16)

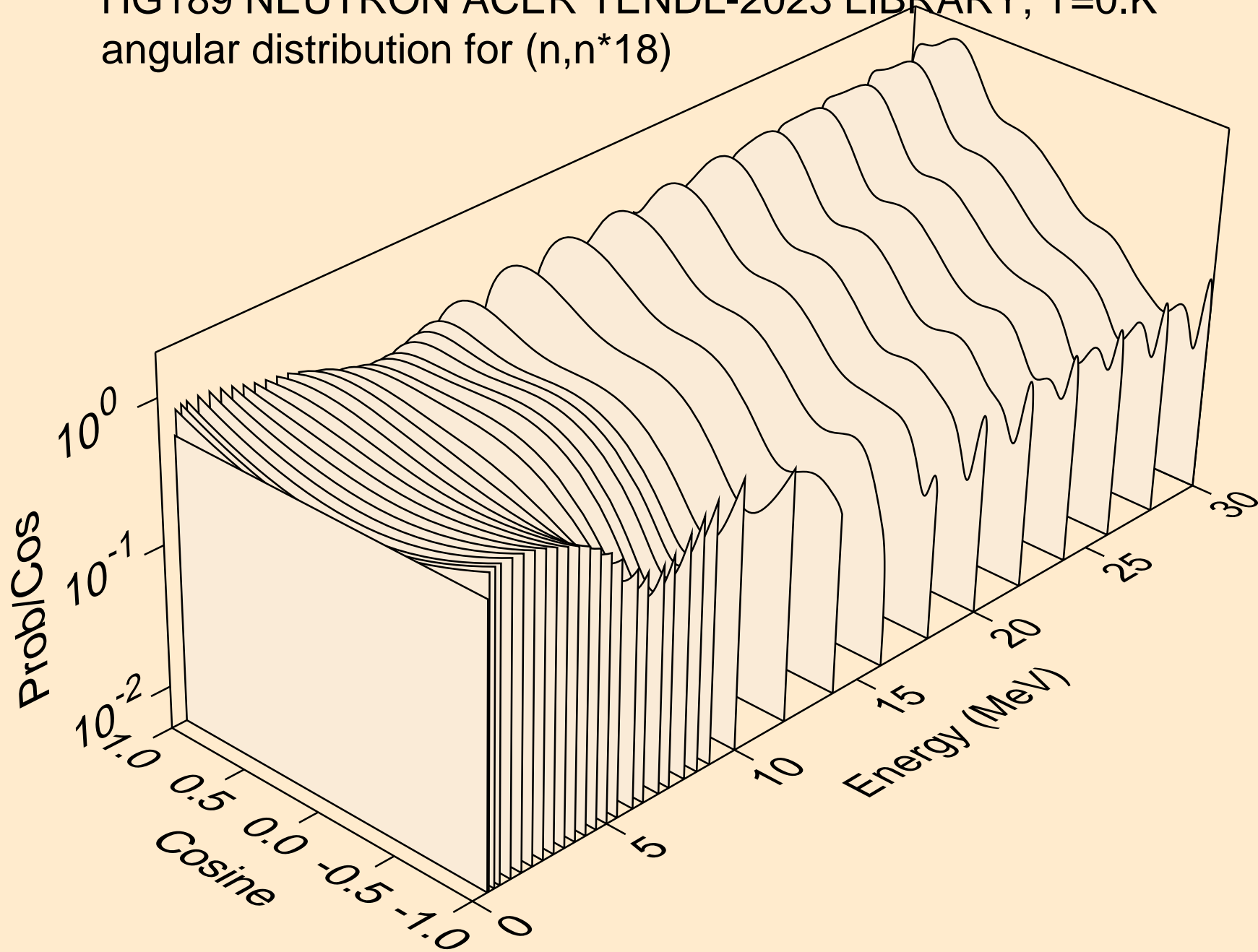




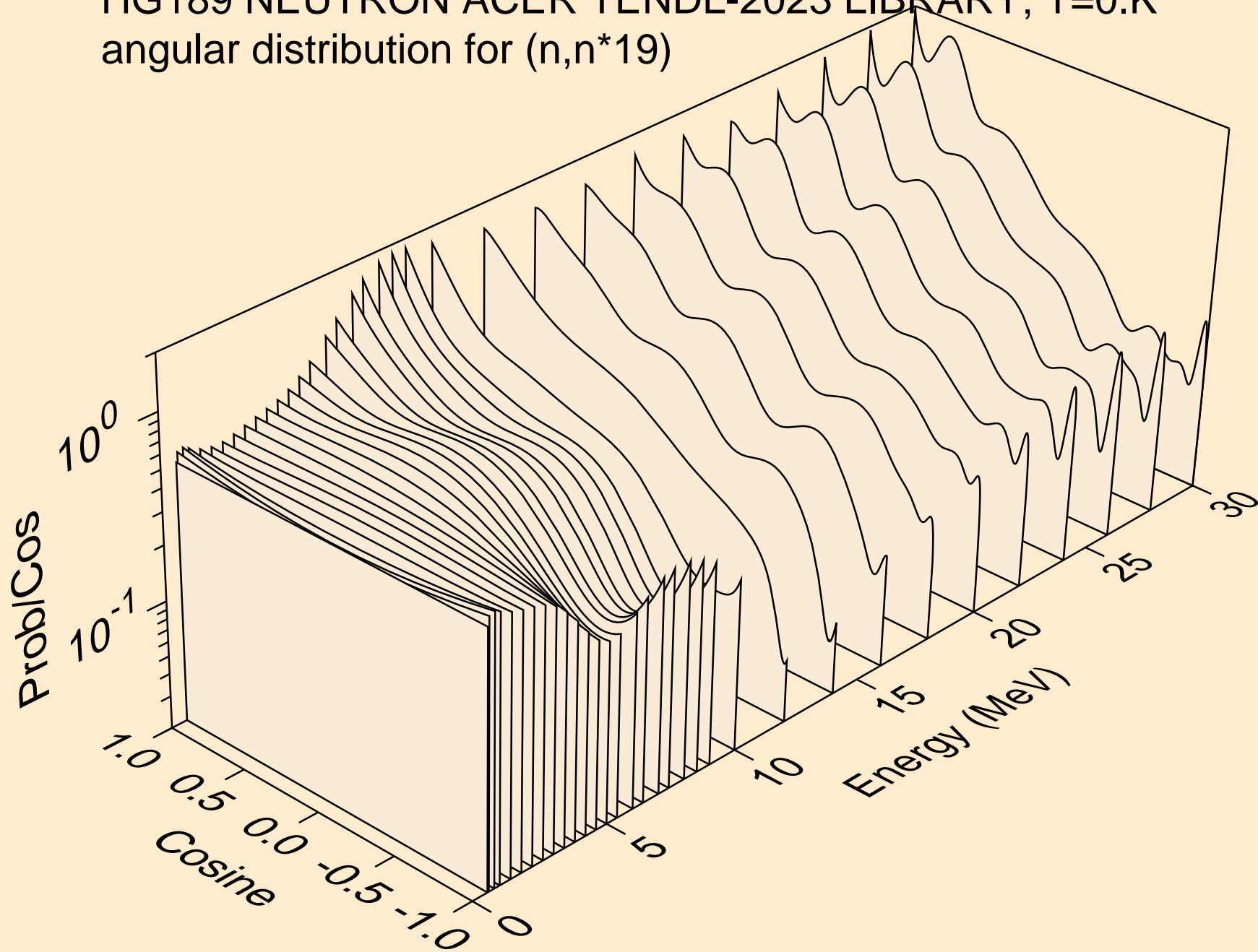
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angular distribution for (n,n\*17)



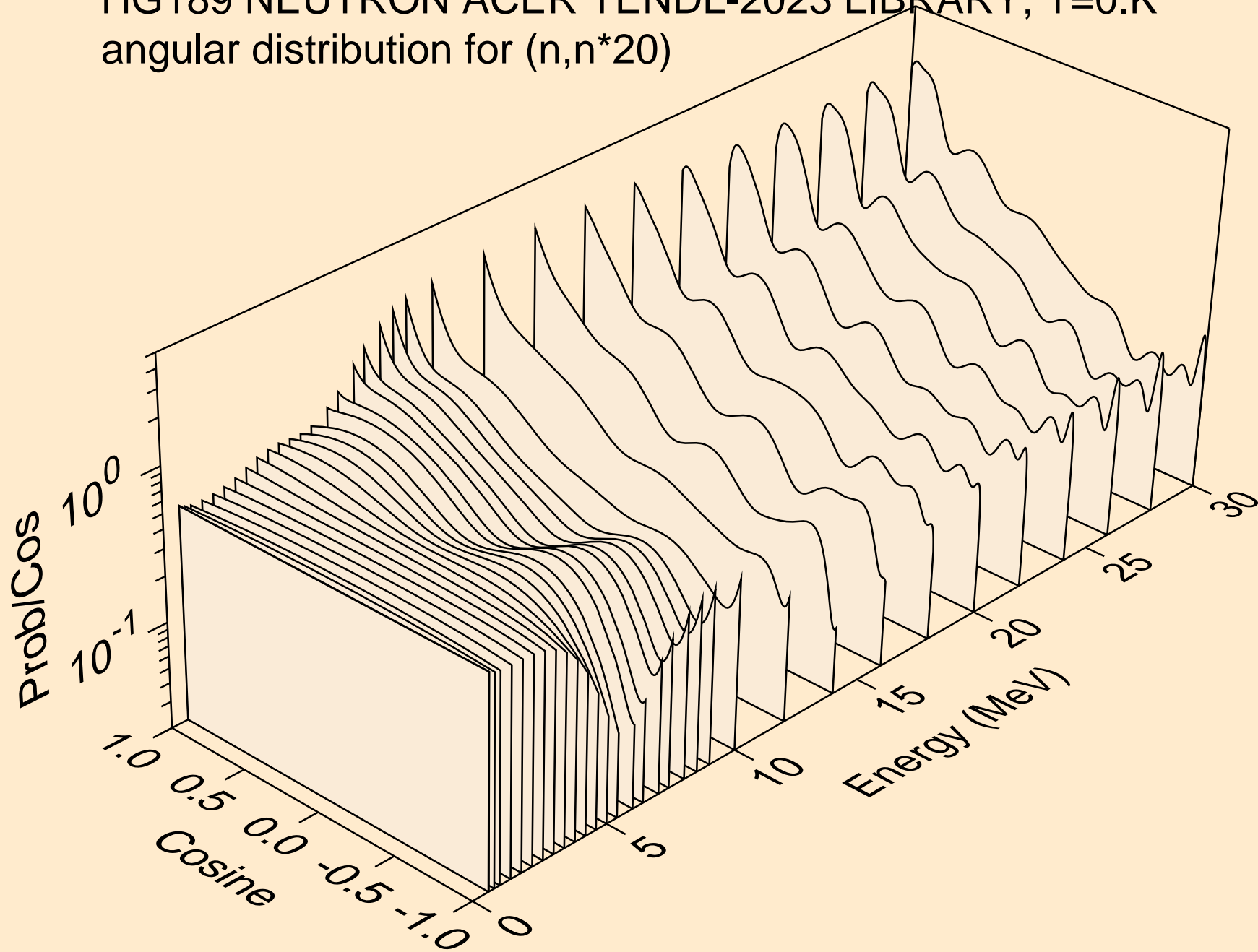
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angular distribution for (n,n\*18)



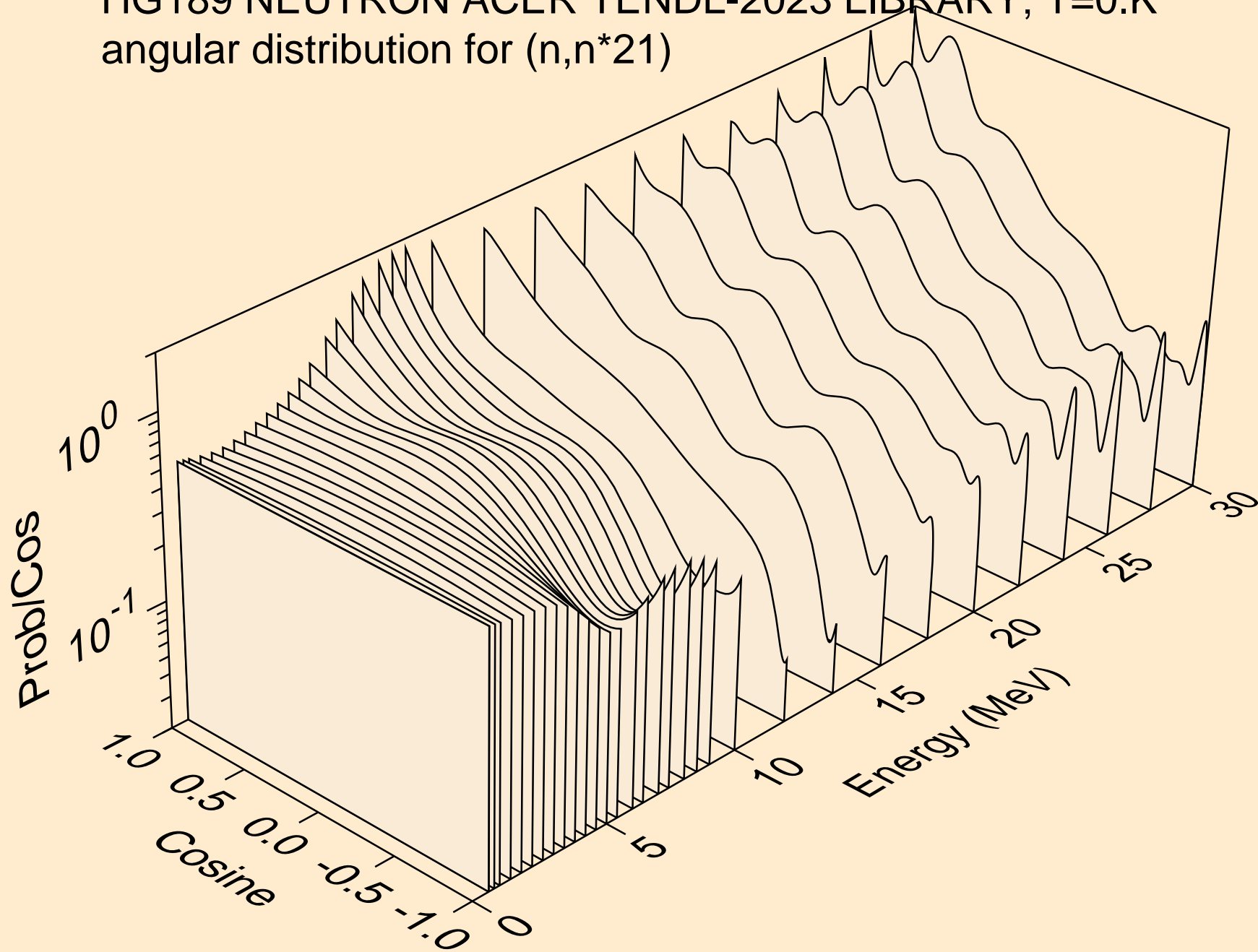
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angular distribution for (n,n\*19)



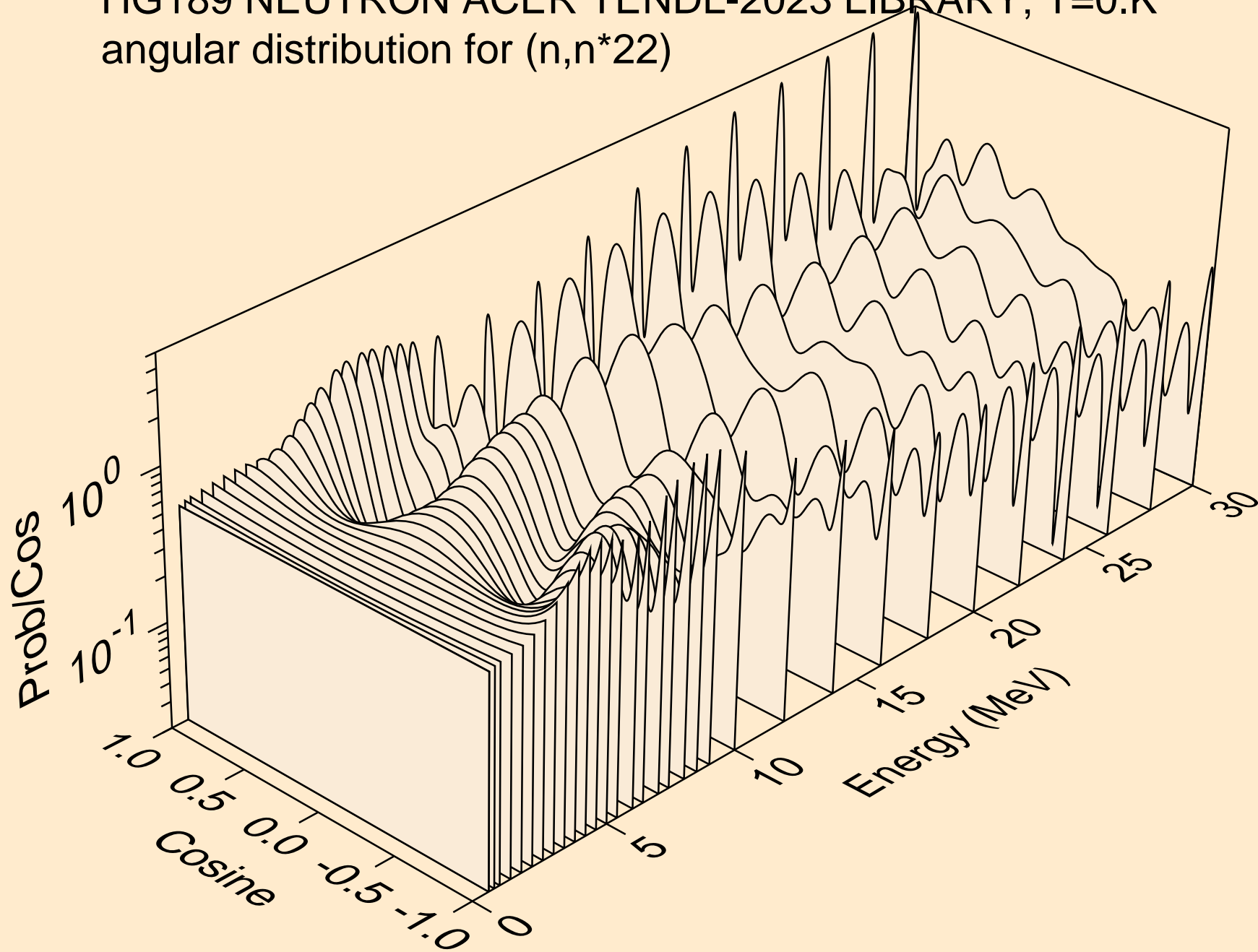
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angular distribution for (n,n\*20)



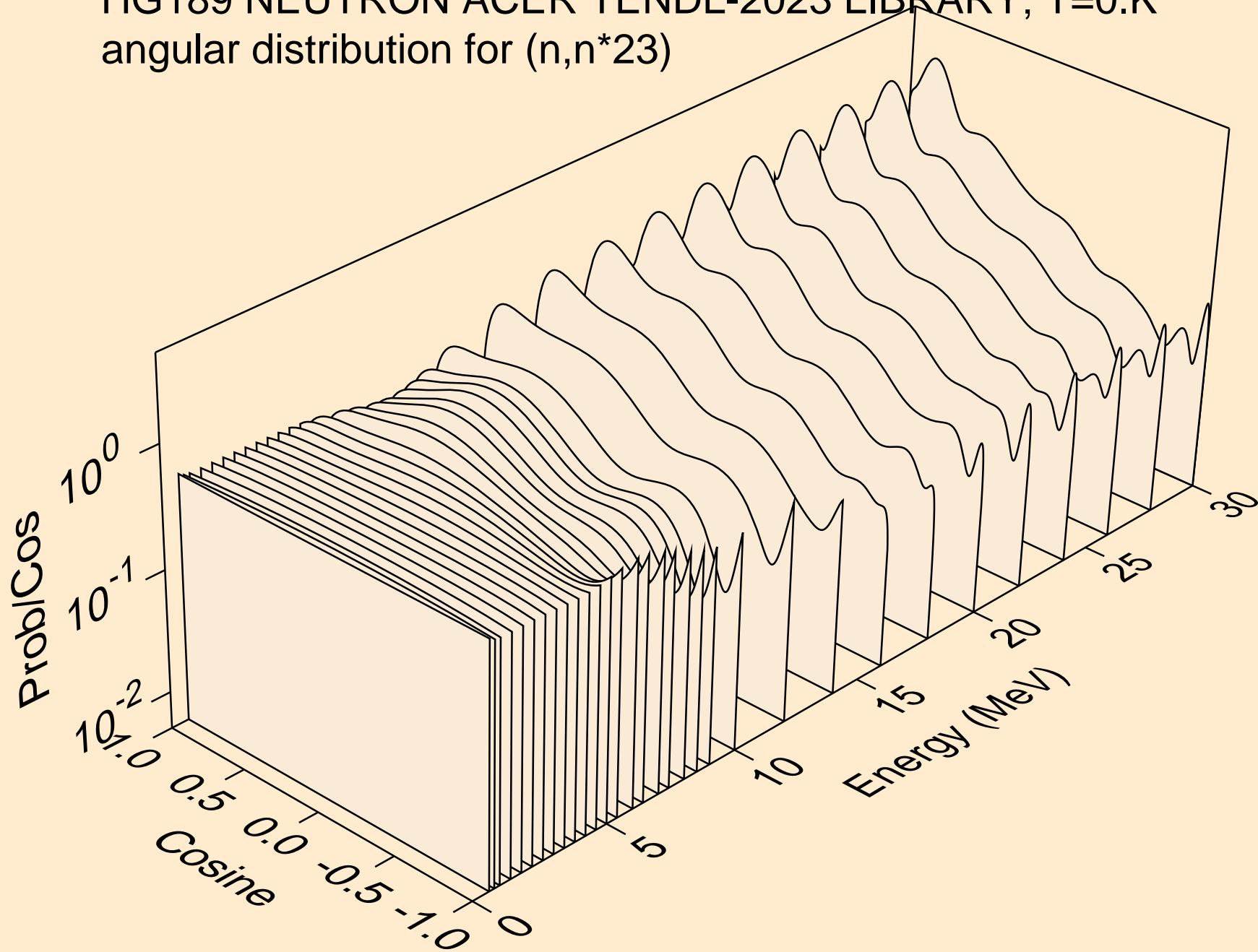
HG189 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*21)



HG189 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*22)

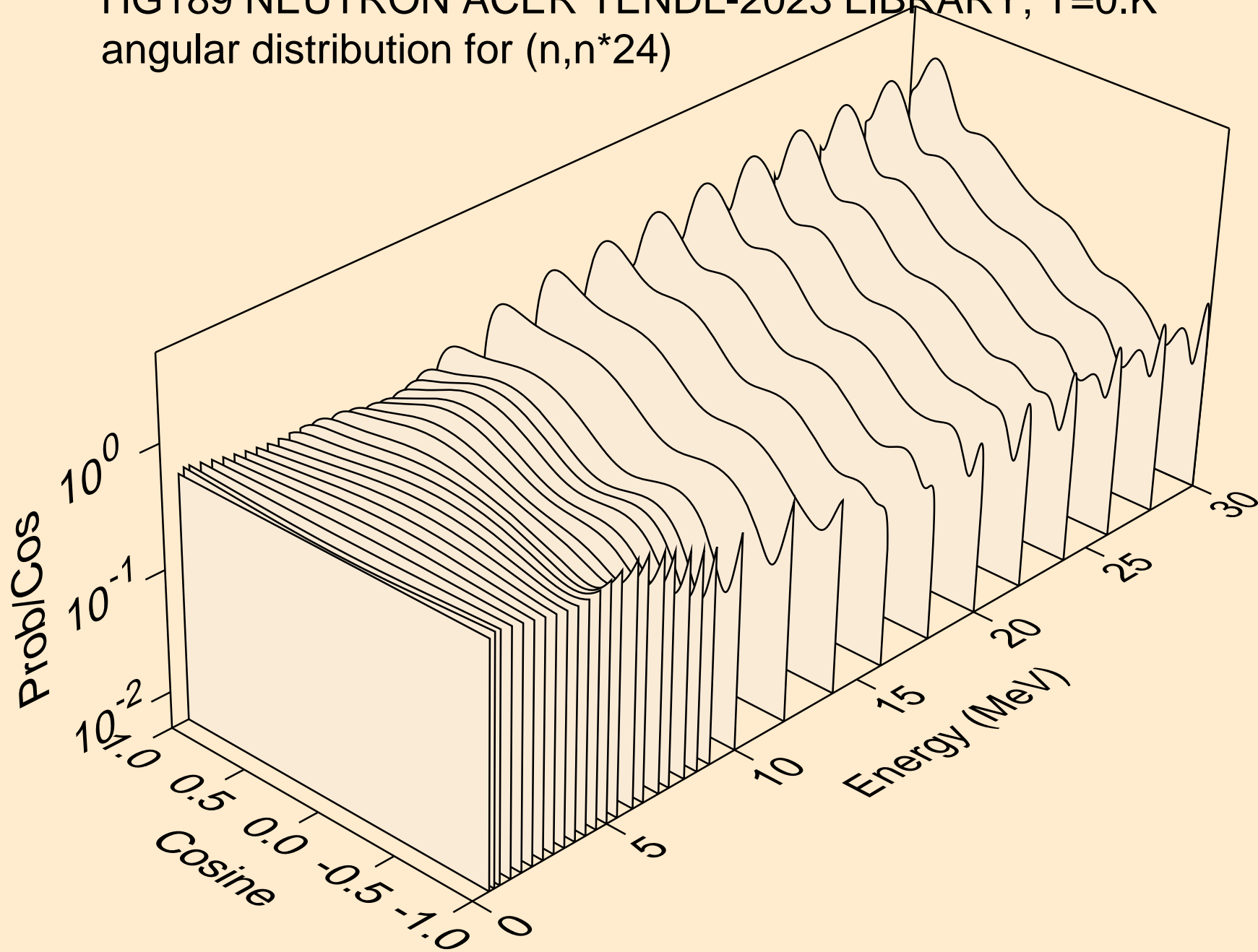


HG189 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*23)



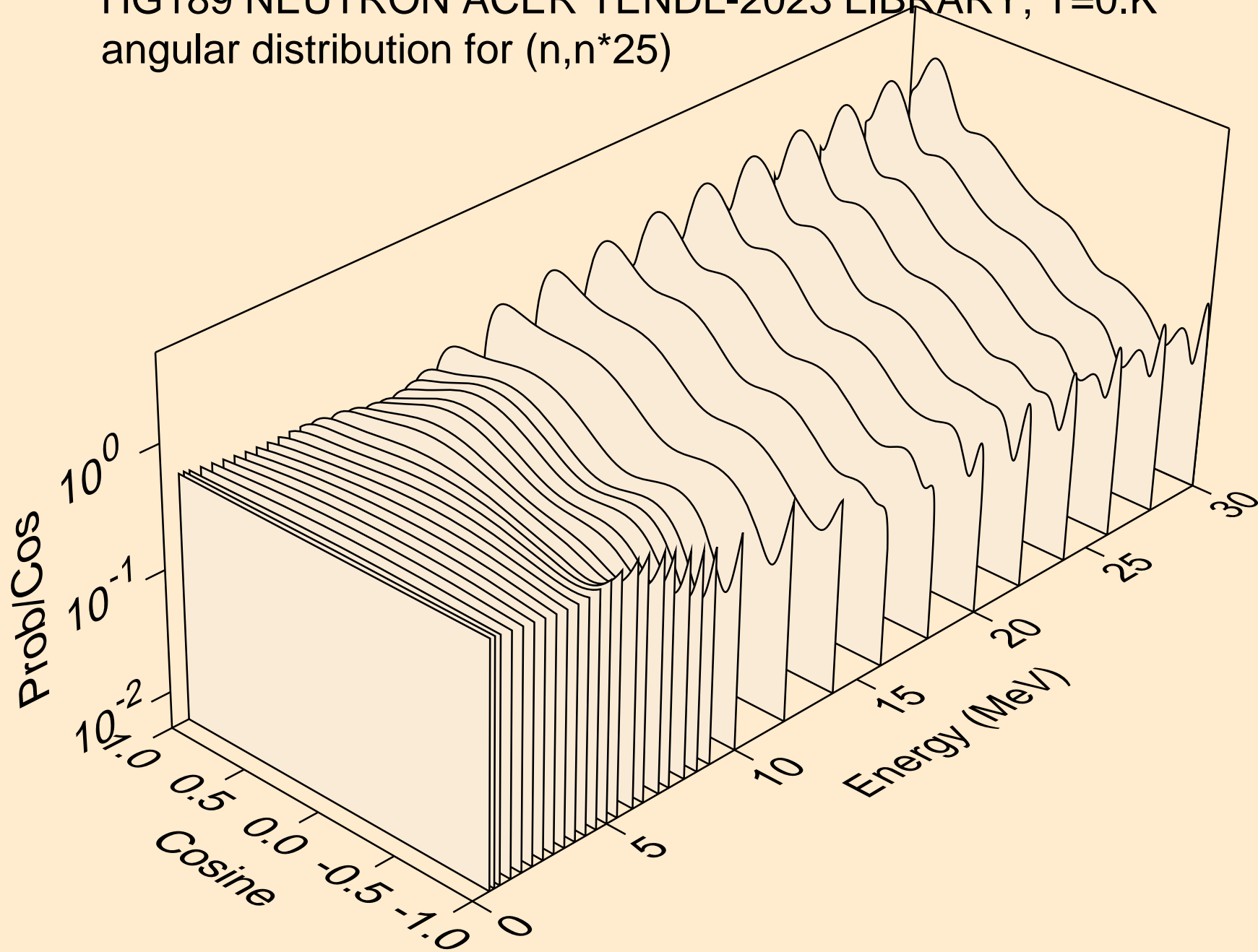


HG189 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*24)

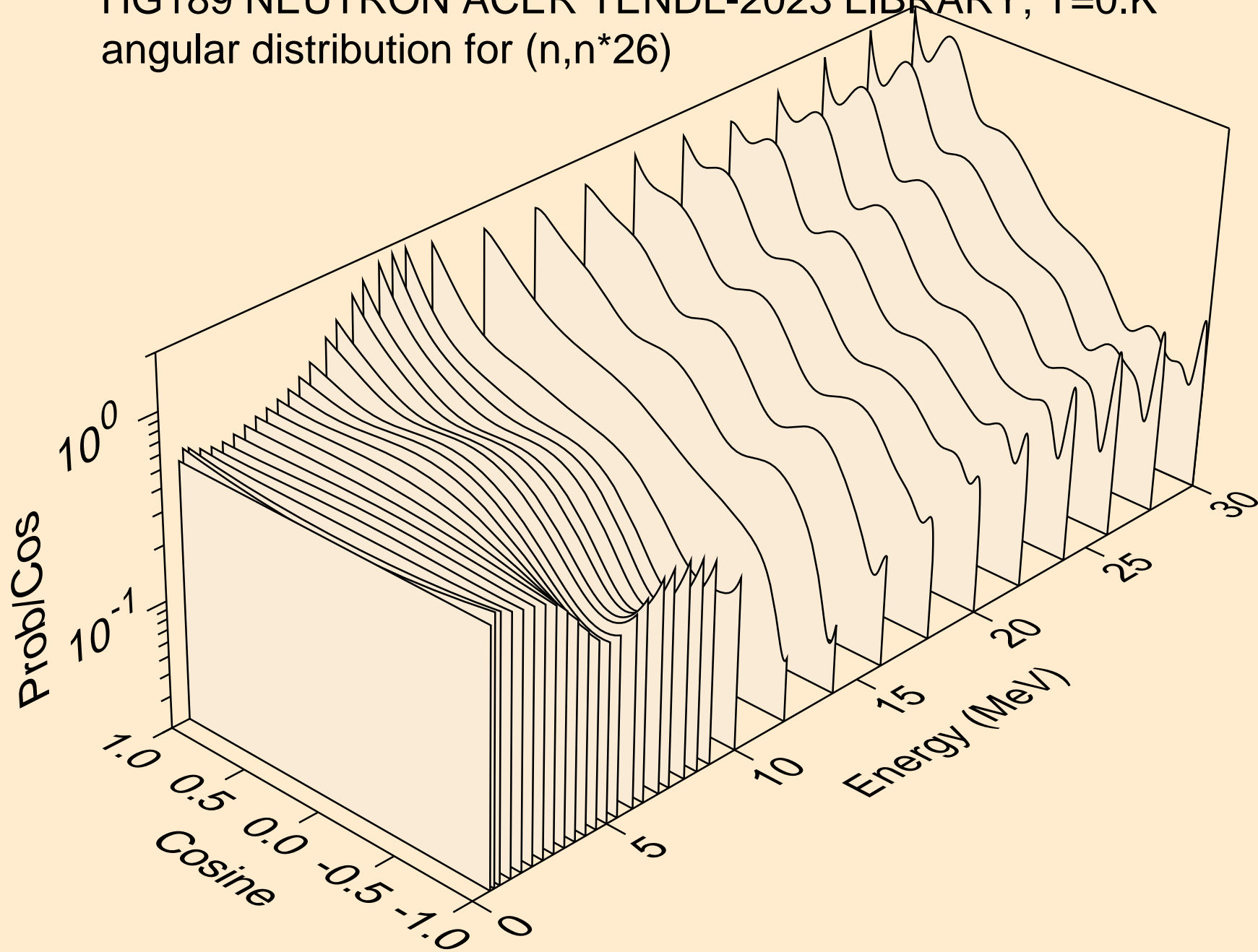




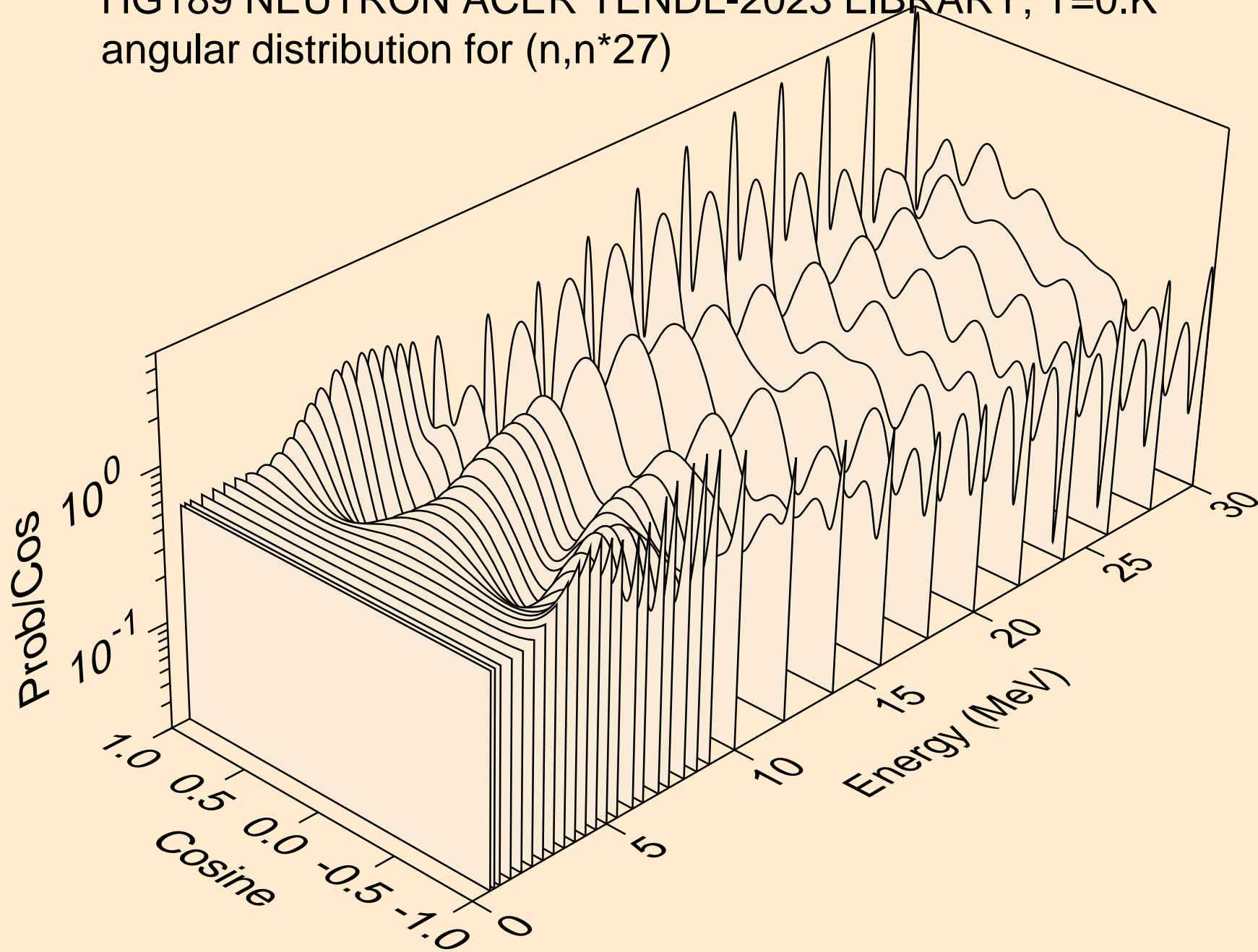
HG189 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*25)



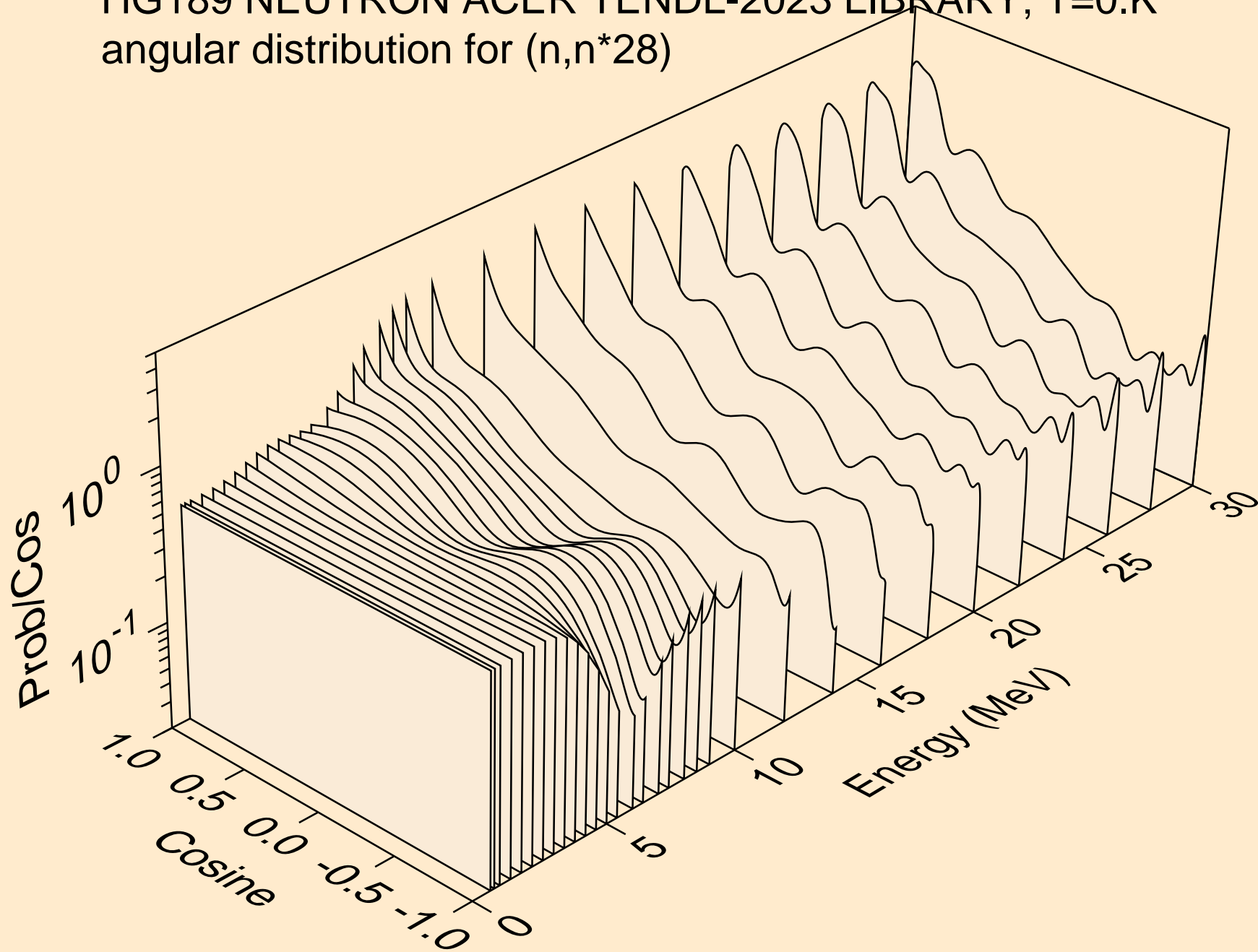
HG189 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*26)



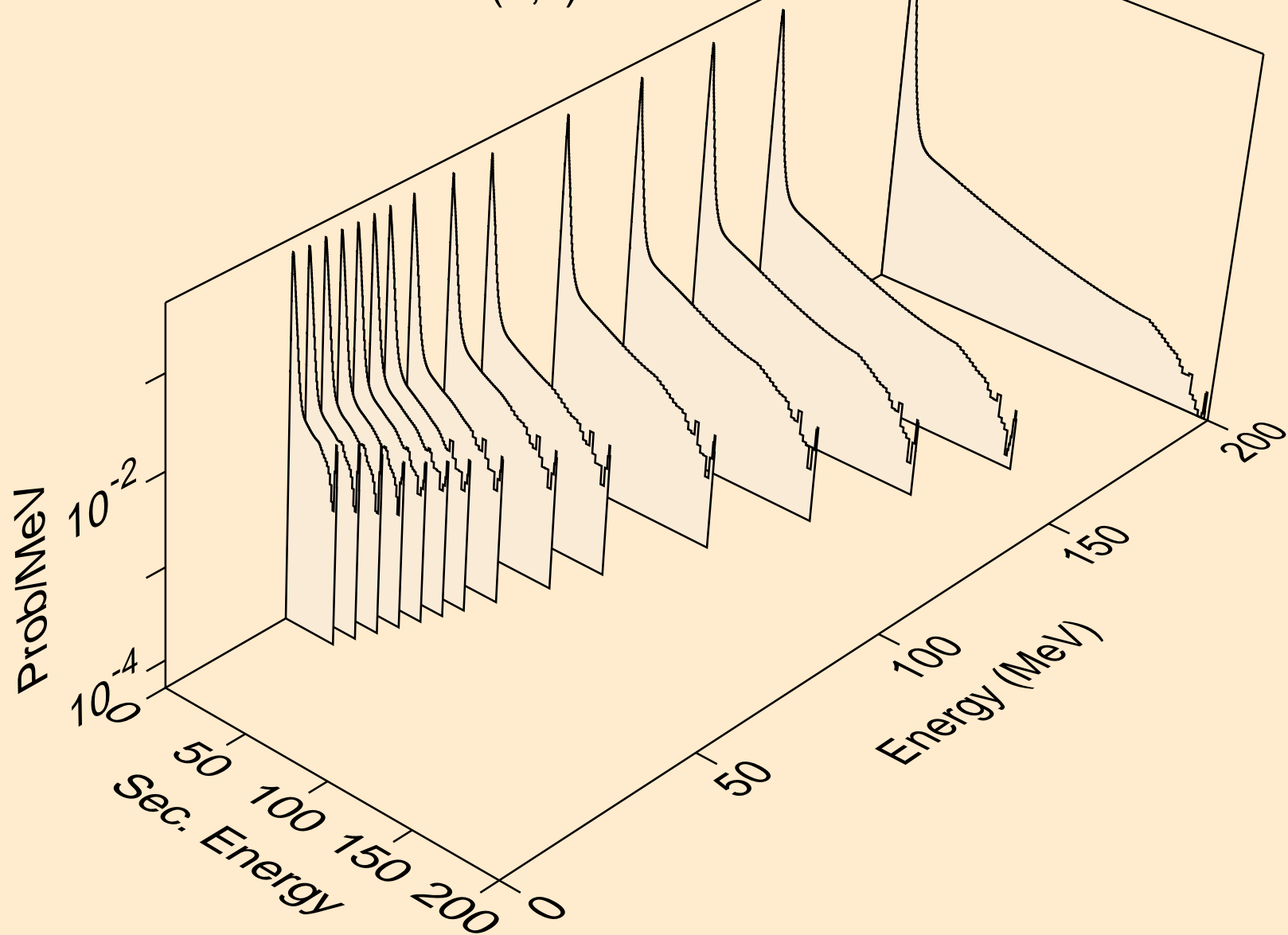
HG189 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*27)



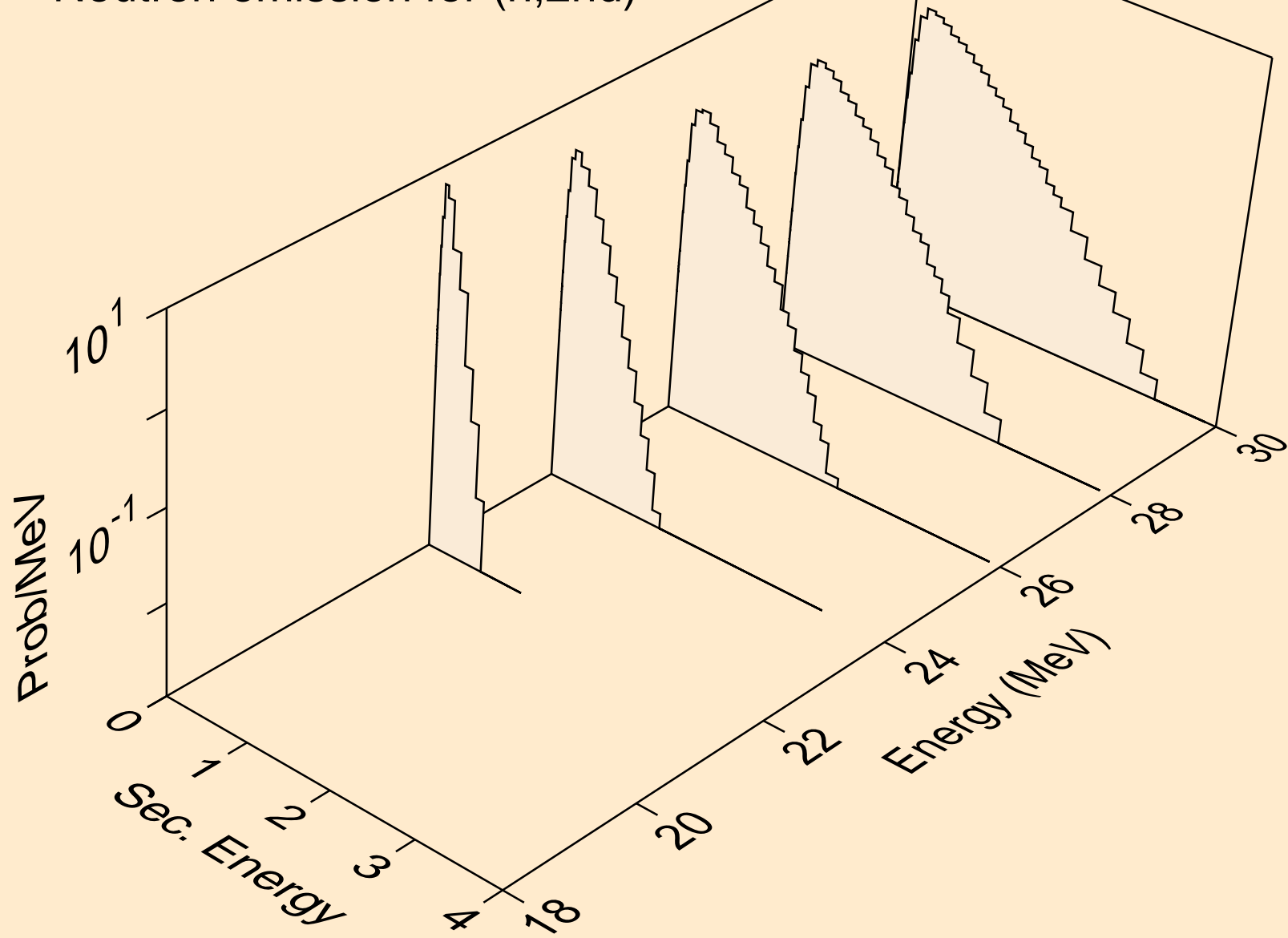
HG189 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*28)



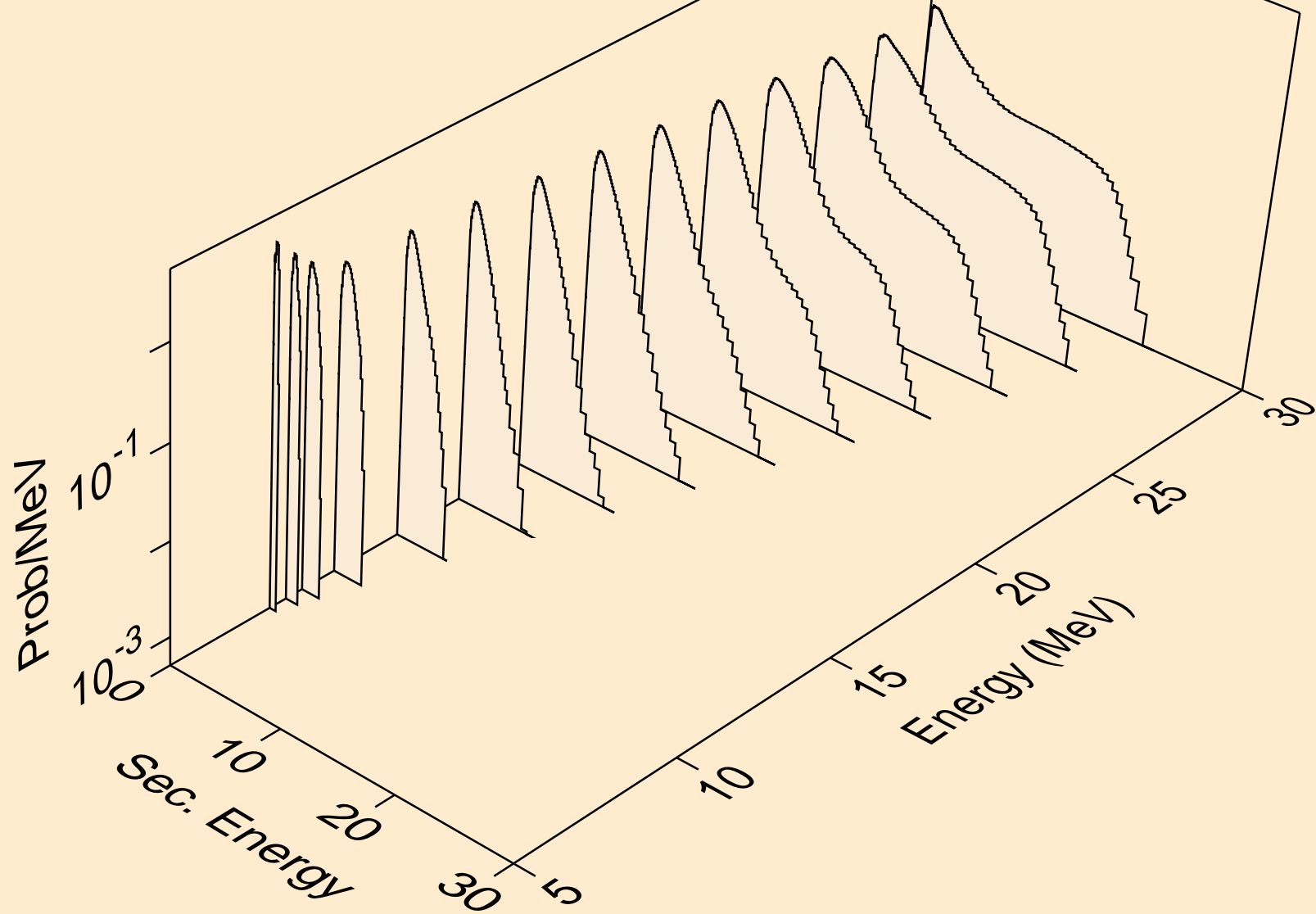
HG189 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,x)



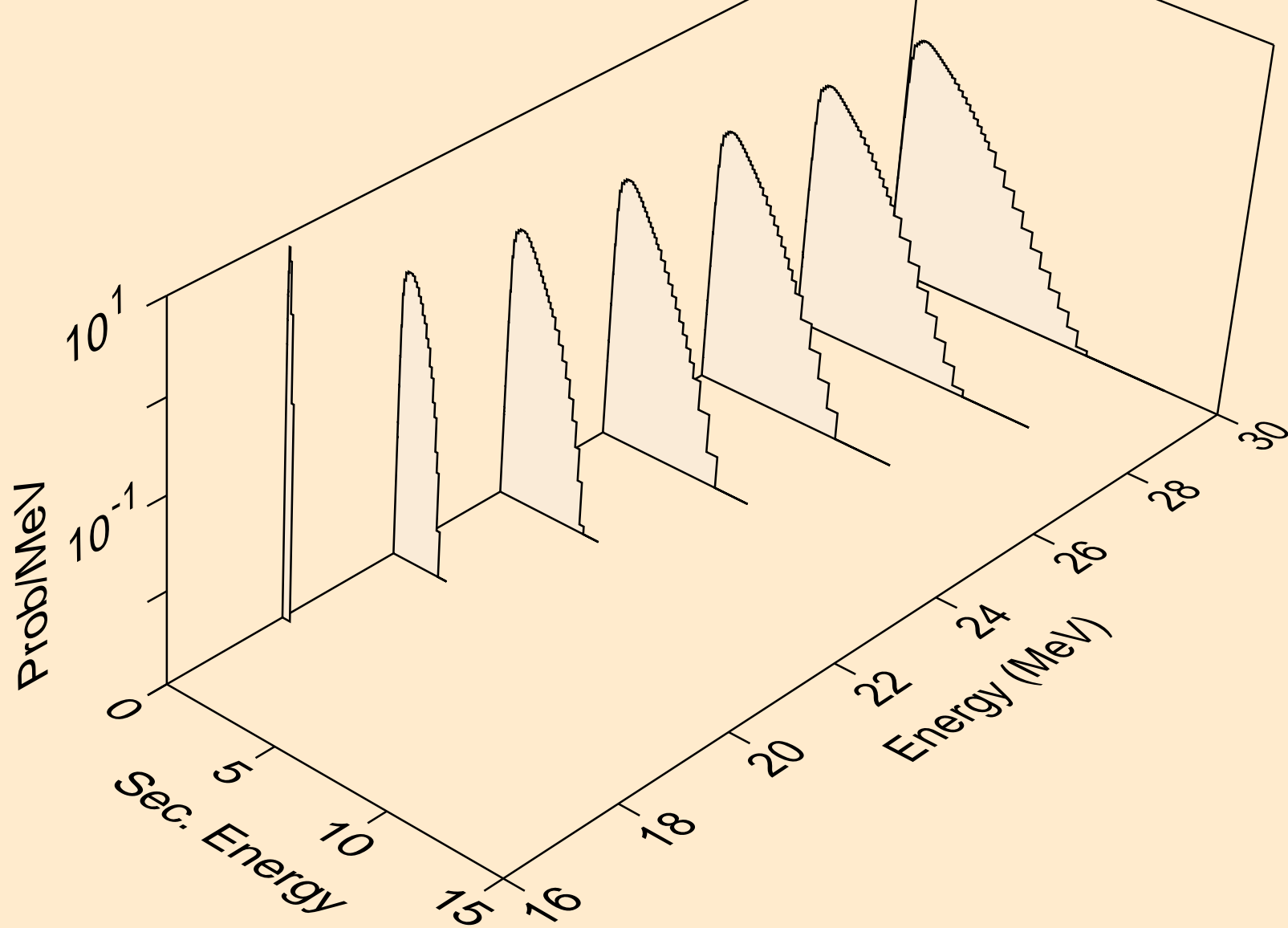
HG189 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,2nd)



HG189 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,2n)

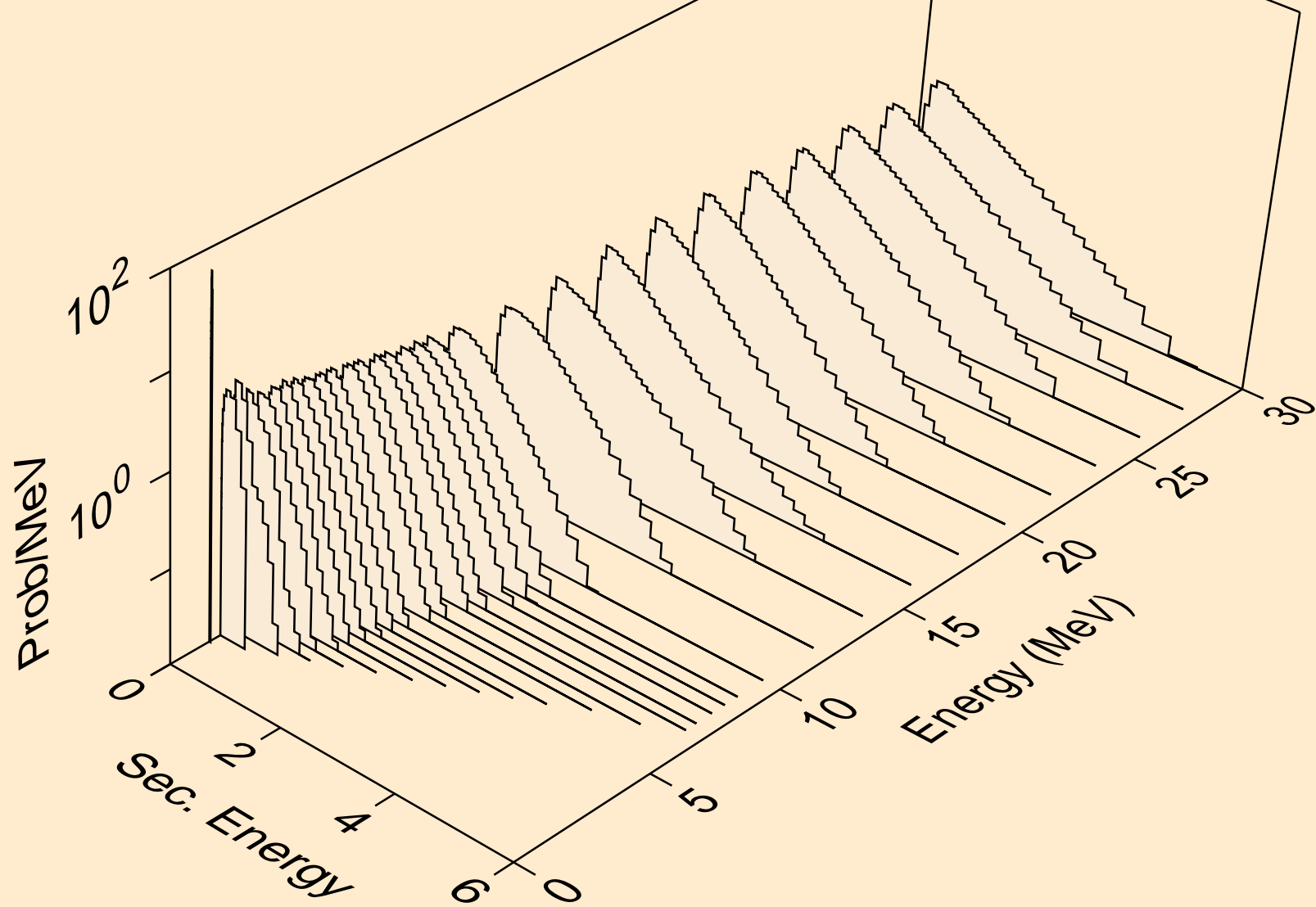


HG189 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,3n)

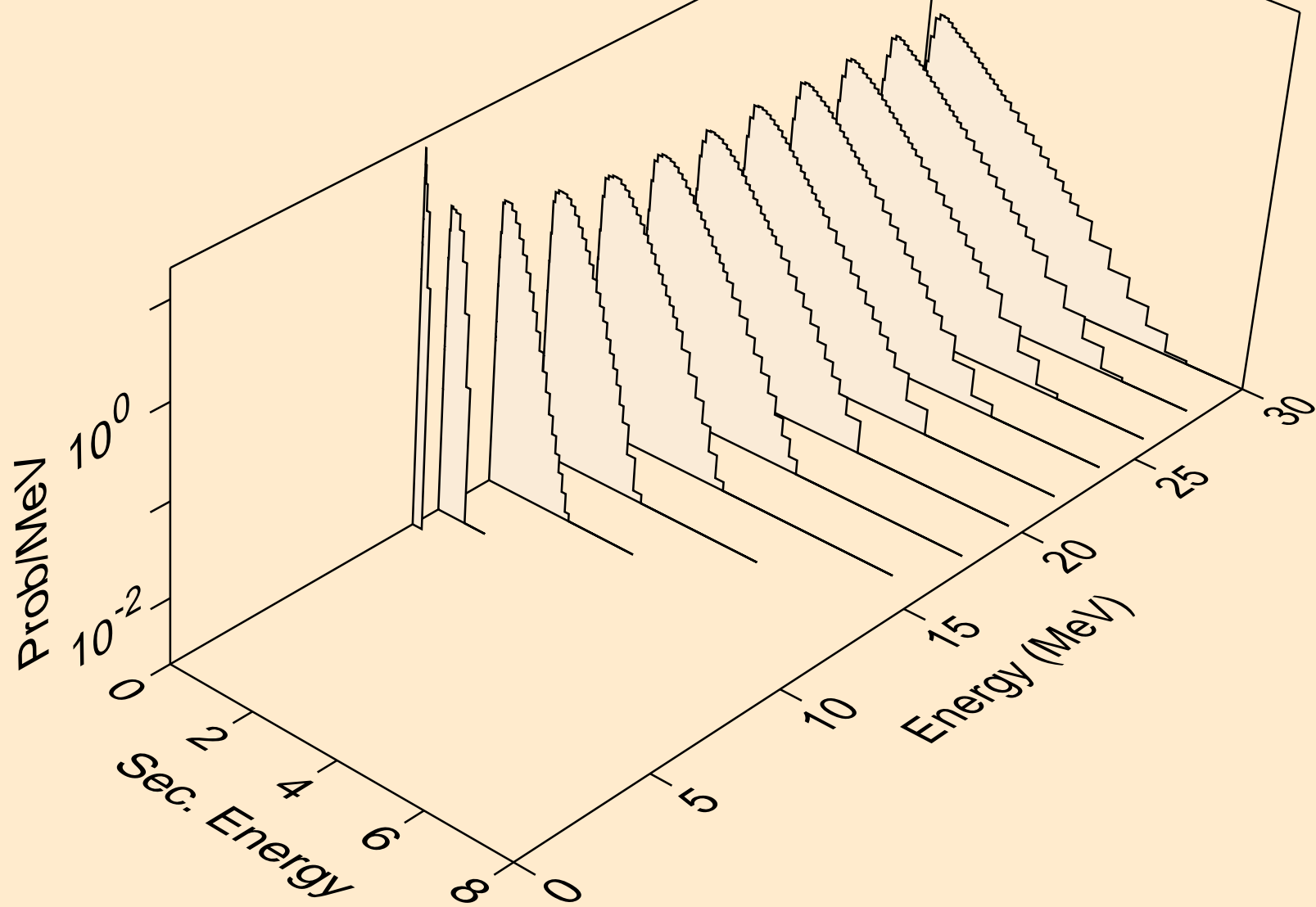




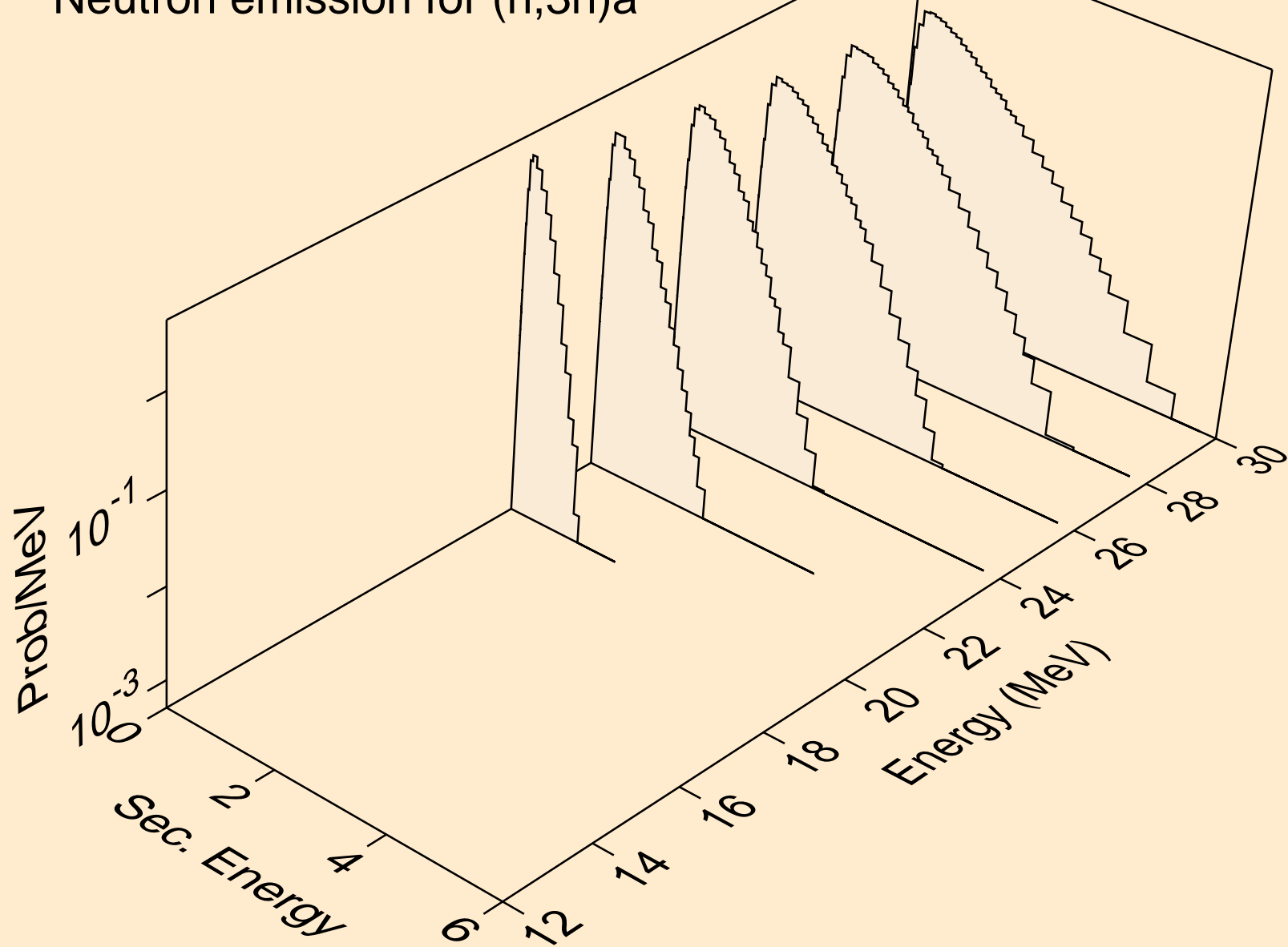
HG189 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,n\*)a



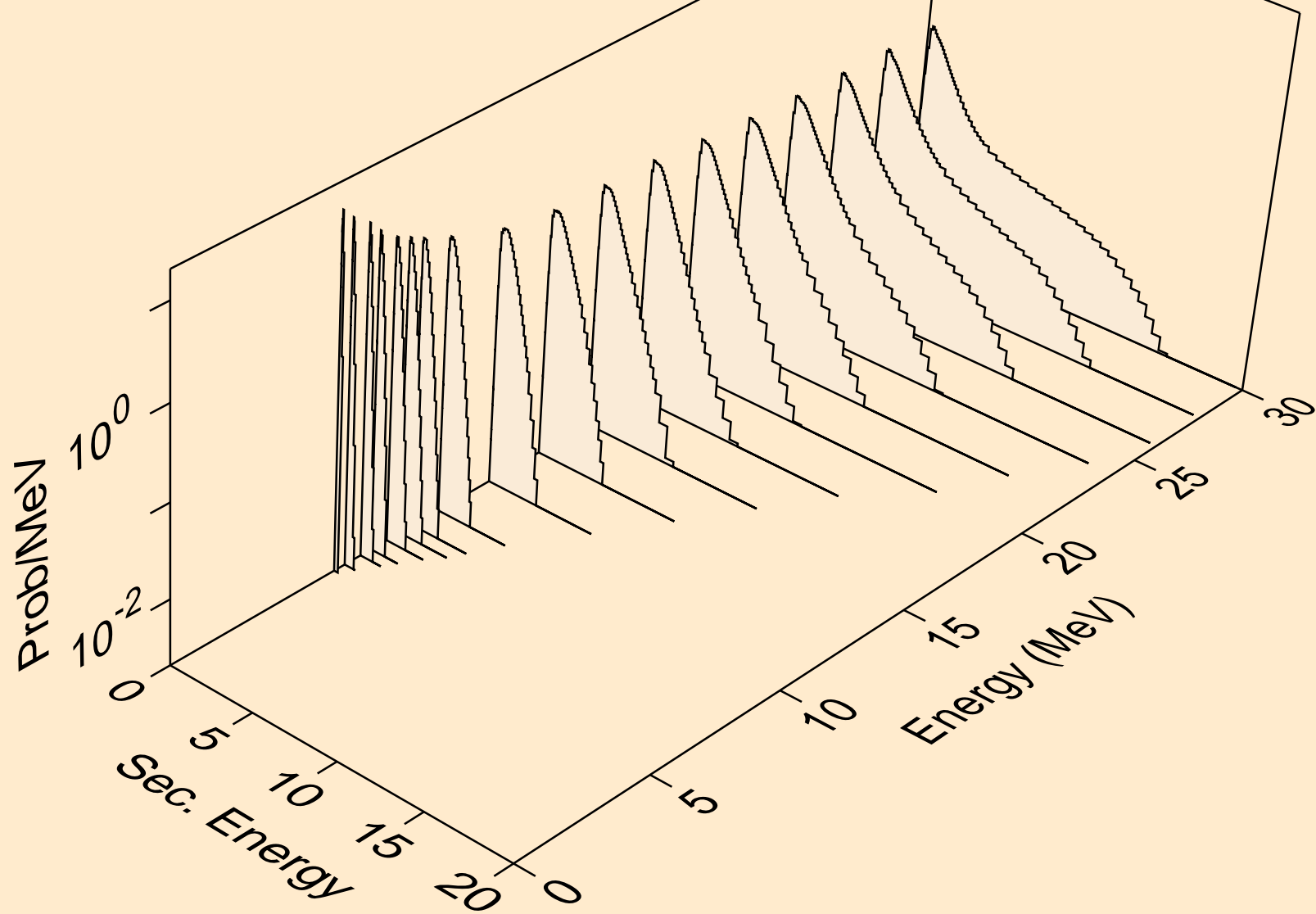
HG189 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,2n)a



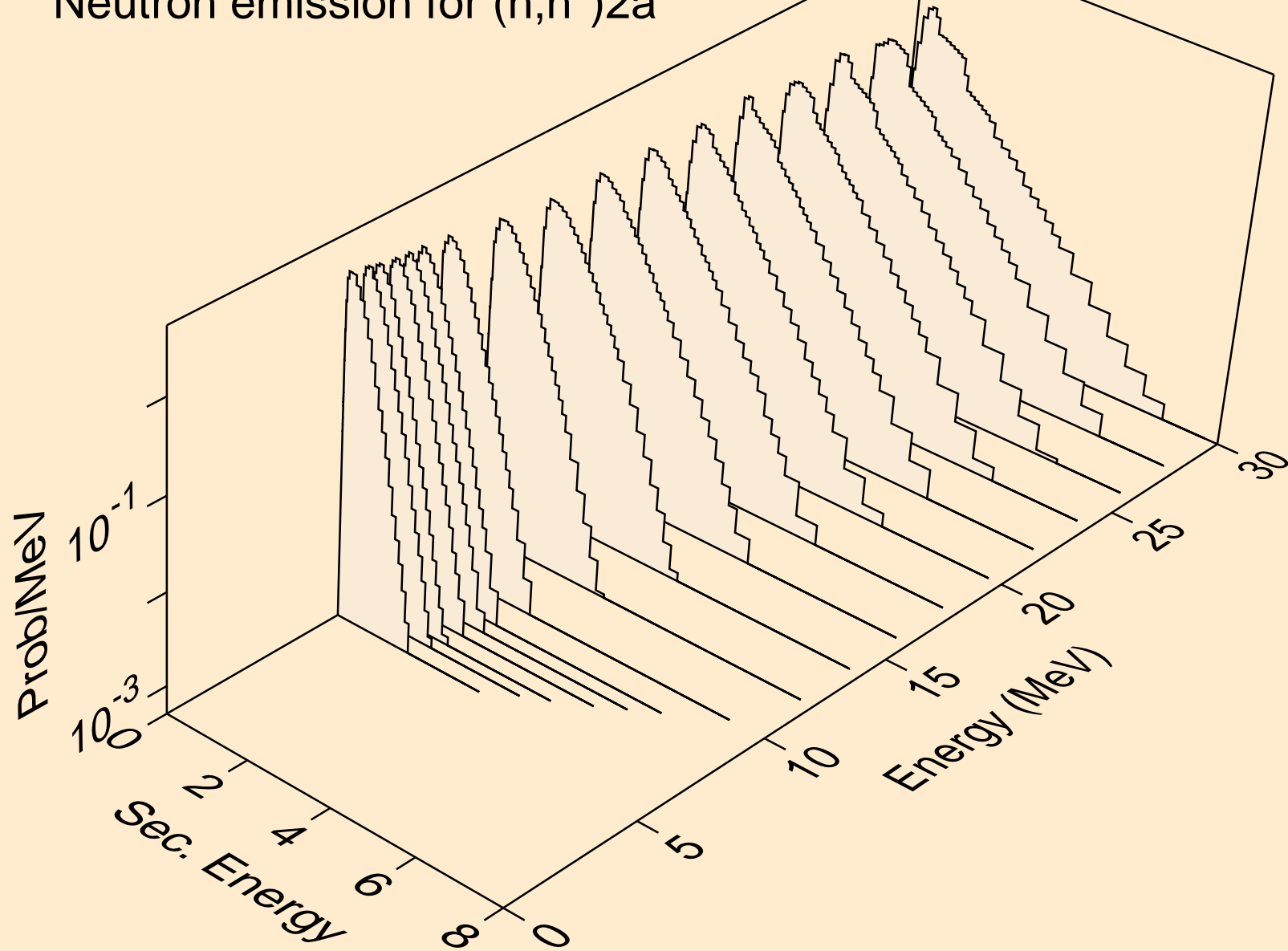
HG189 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,3n)a



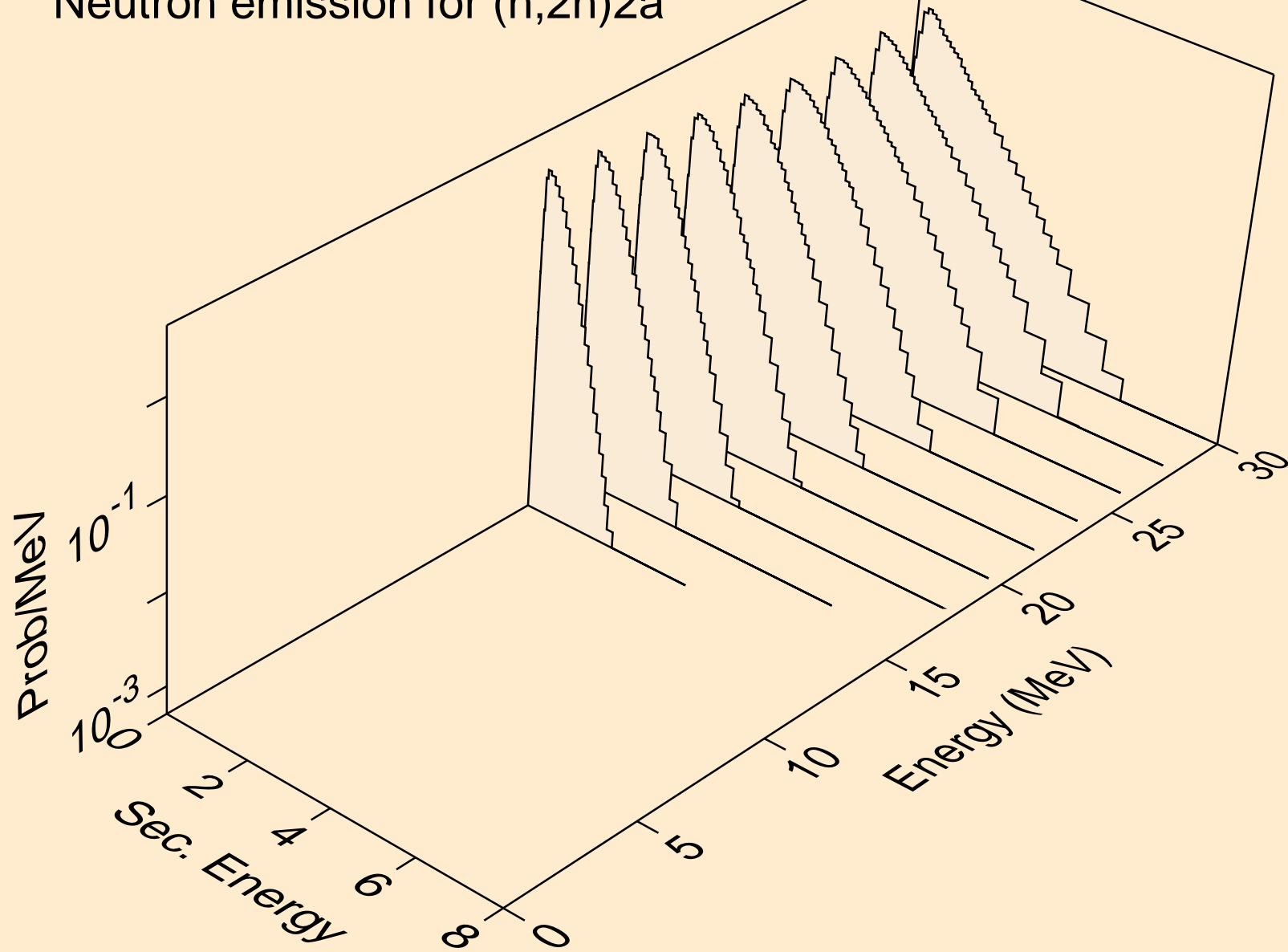
HG189 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,n\*)p



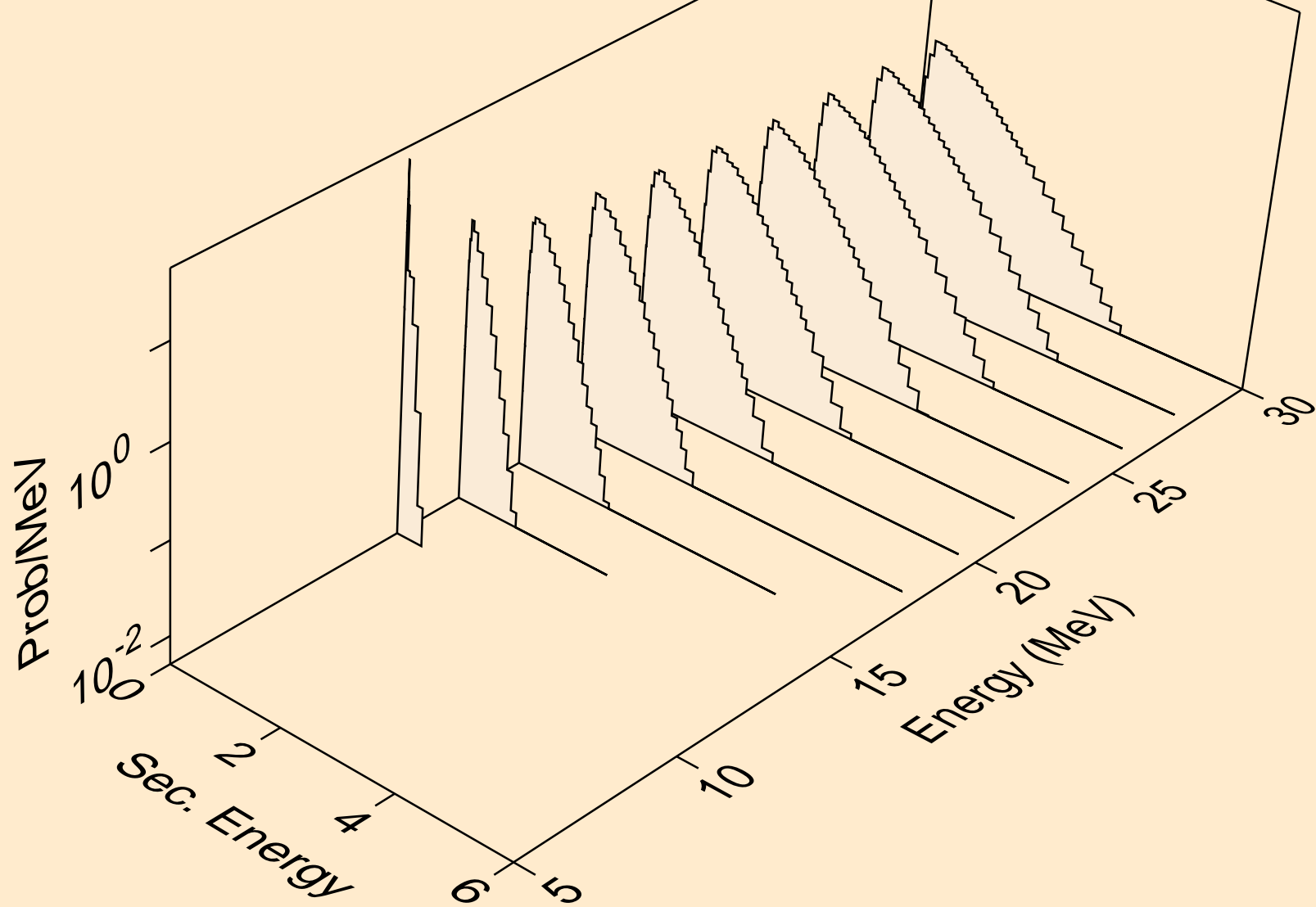
HG189 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,n\*)2a



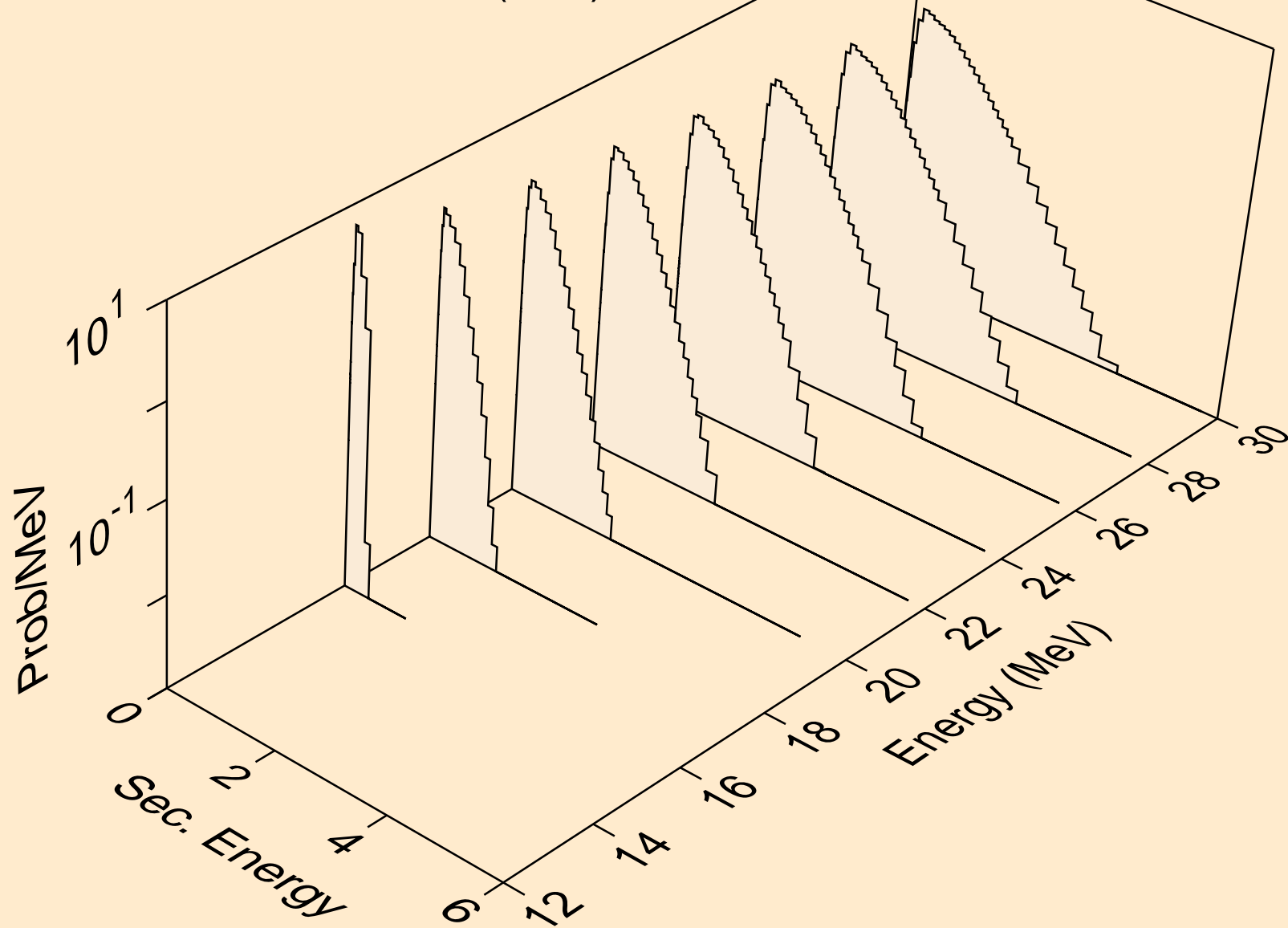
HG189 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,2n)2a



HG189 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,n\*)d

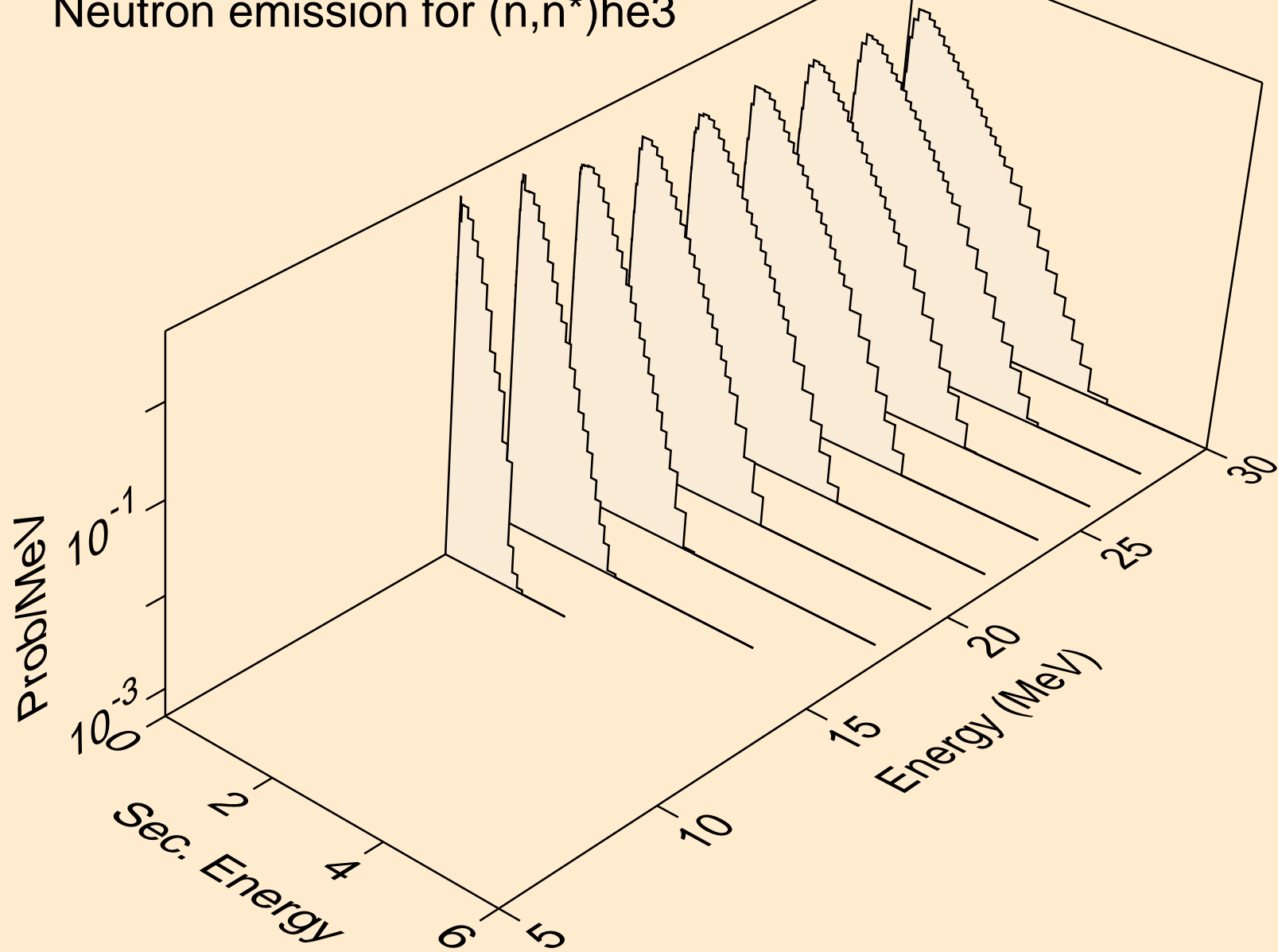


HG189 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,n\*)t

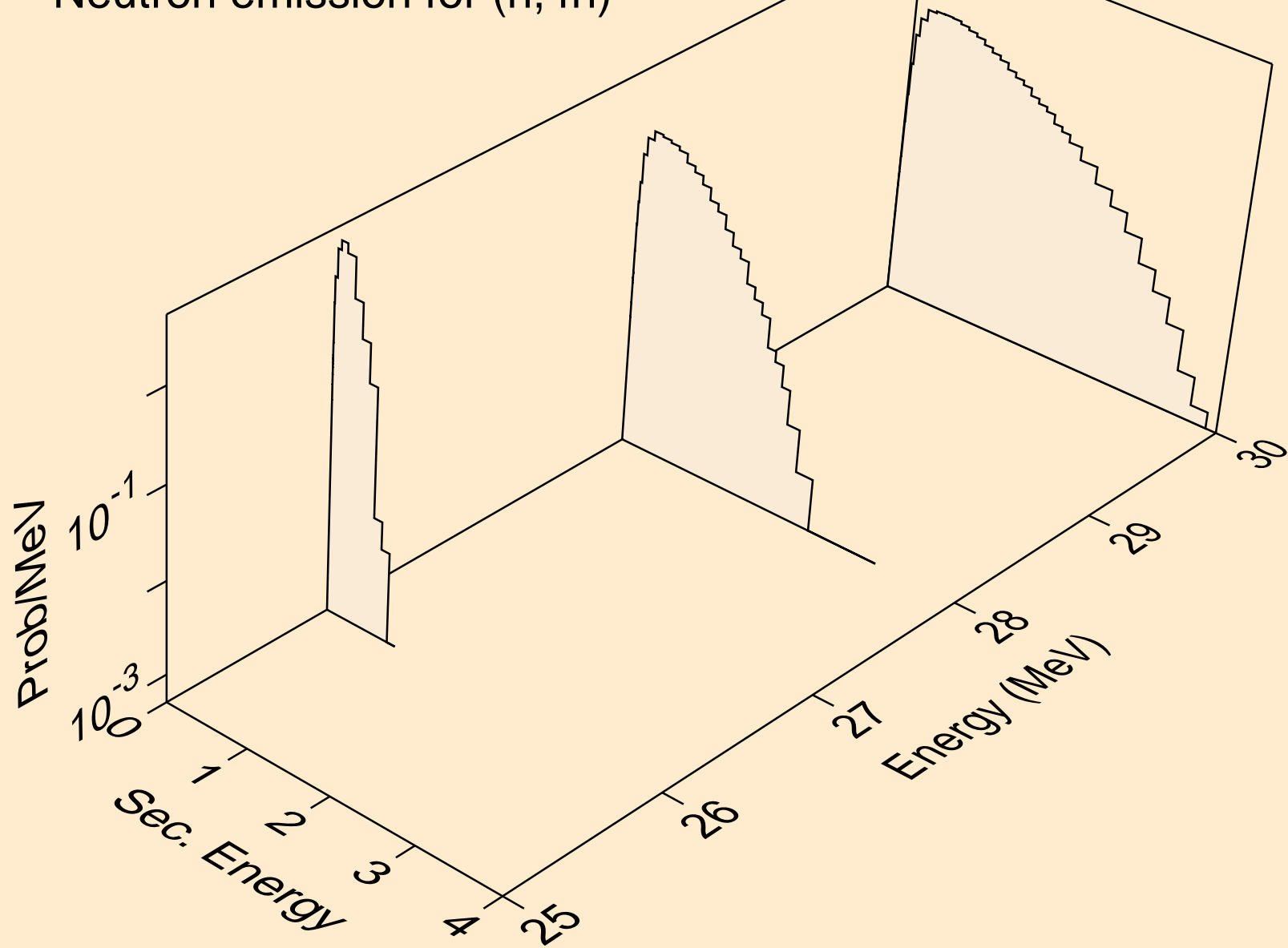




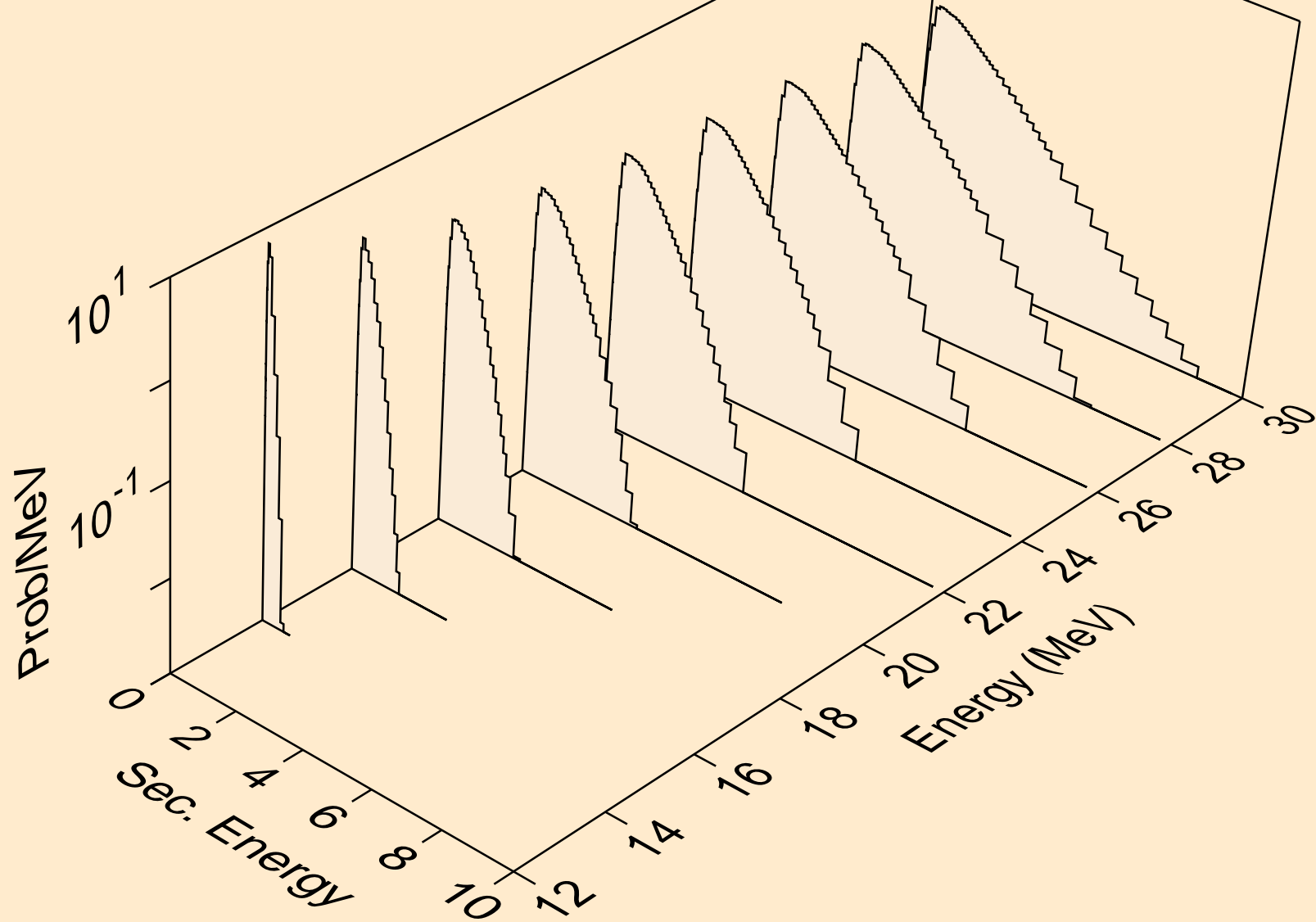
HG189 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,n\*)he3



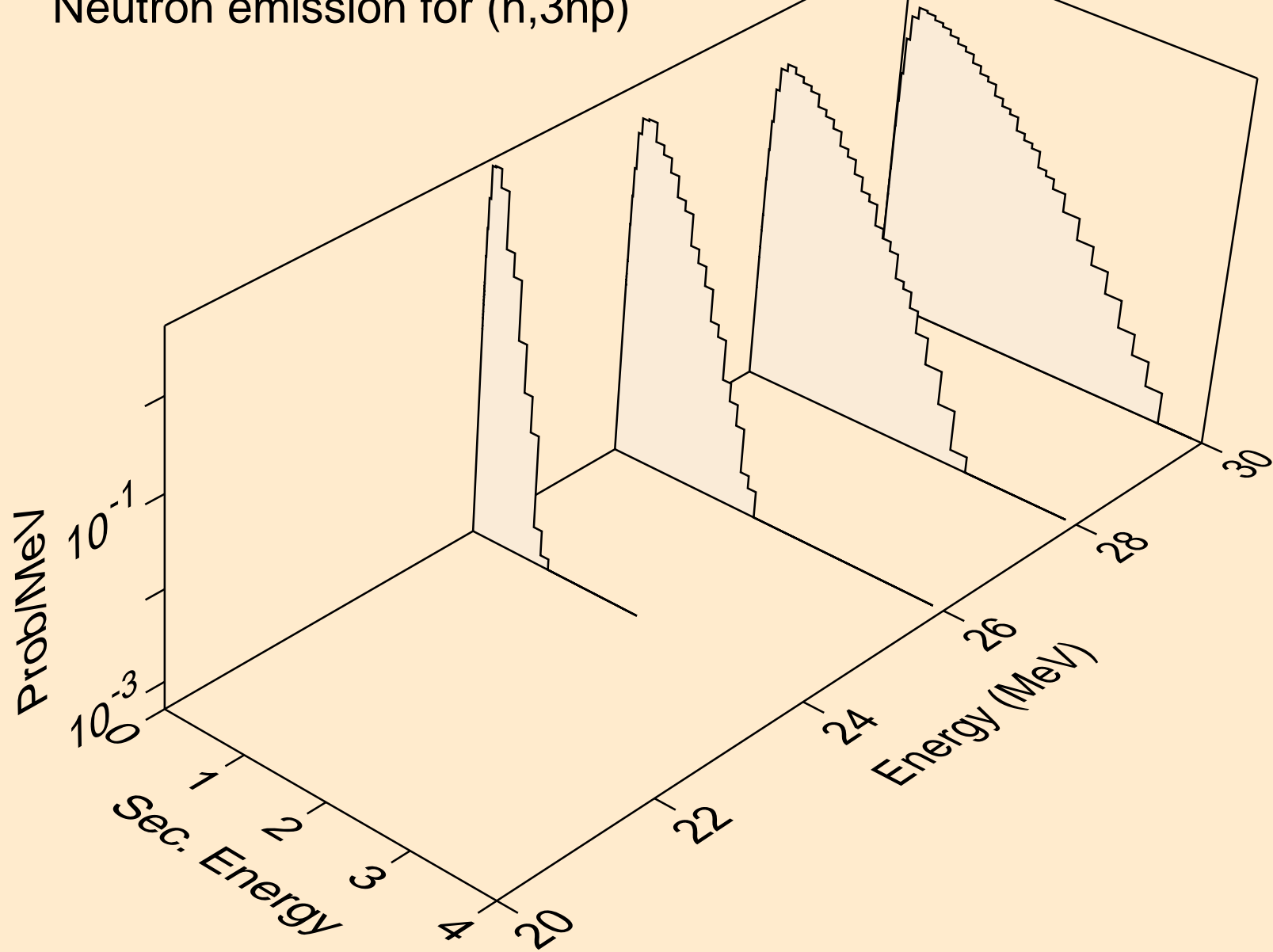
HG189 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,4n)



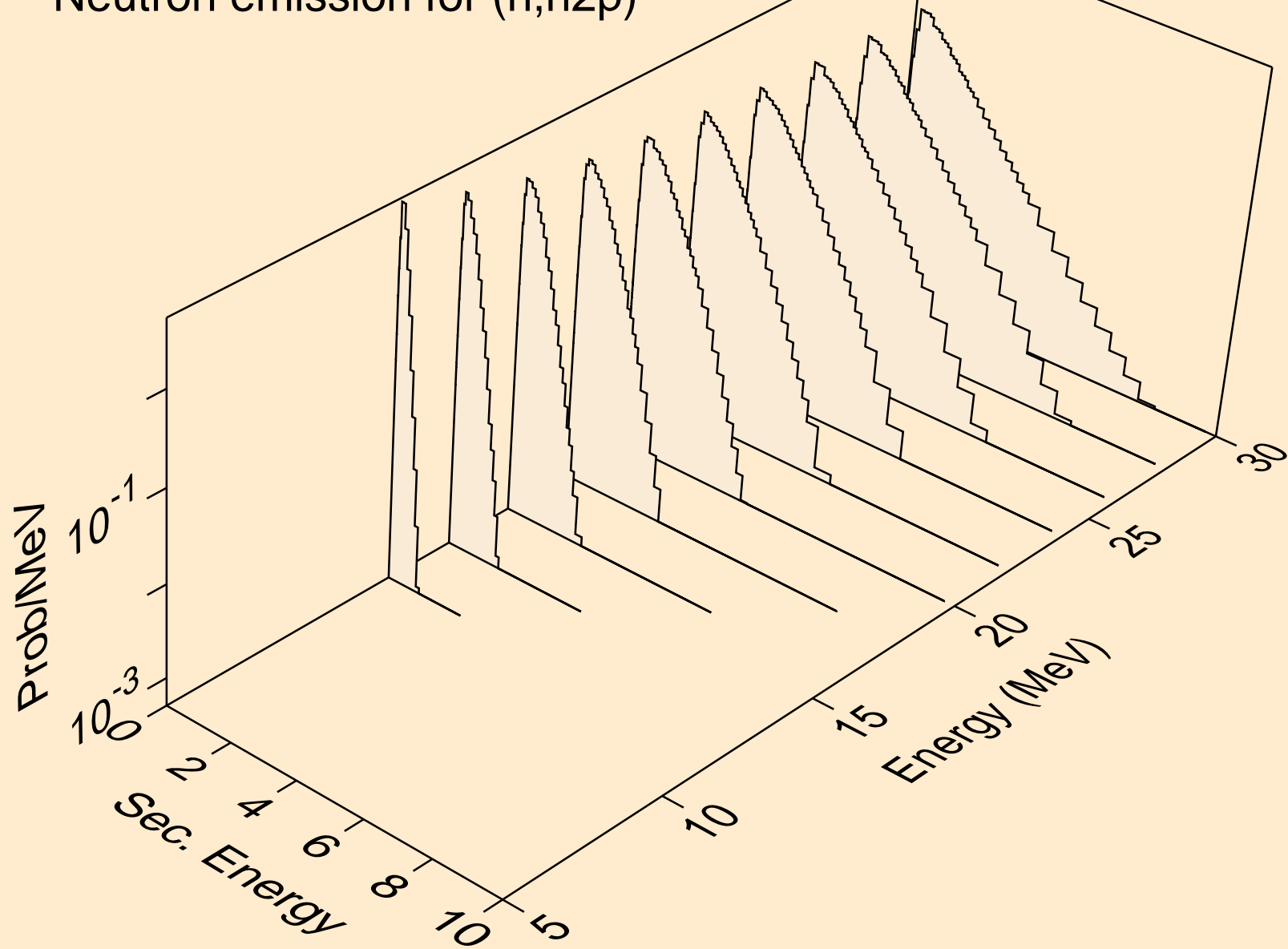
HG189 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,2np)



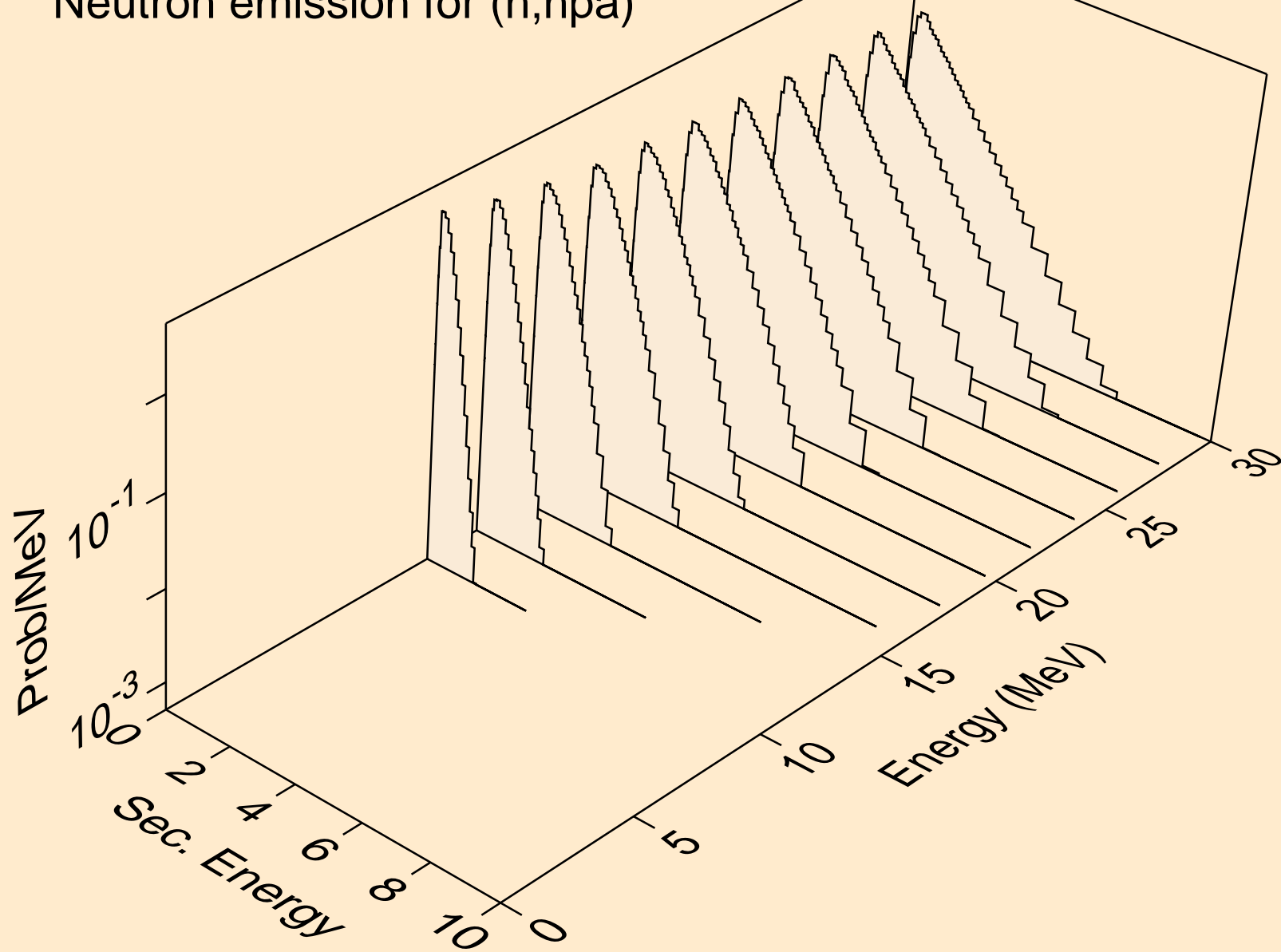
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Neutron emission for (n,3np)



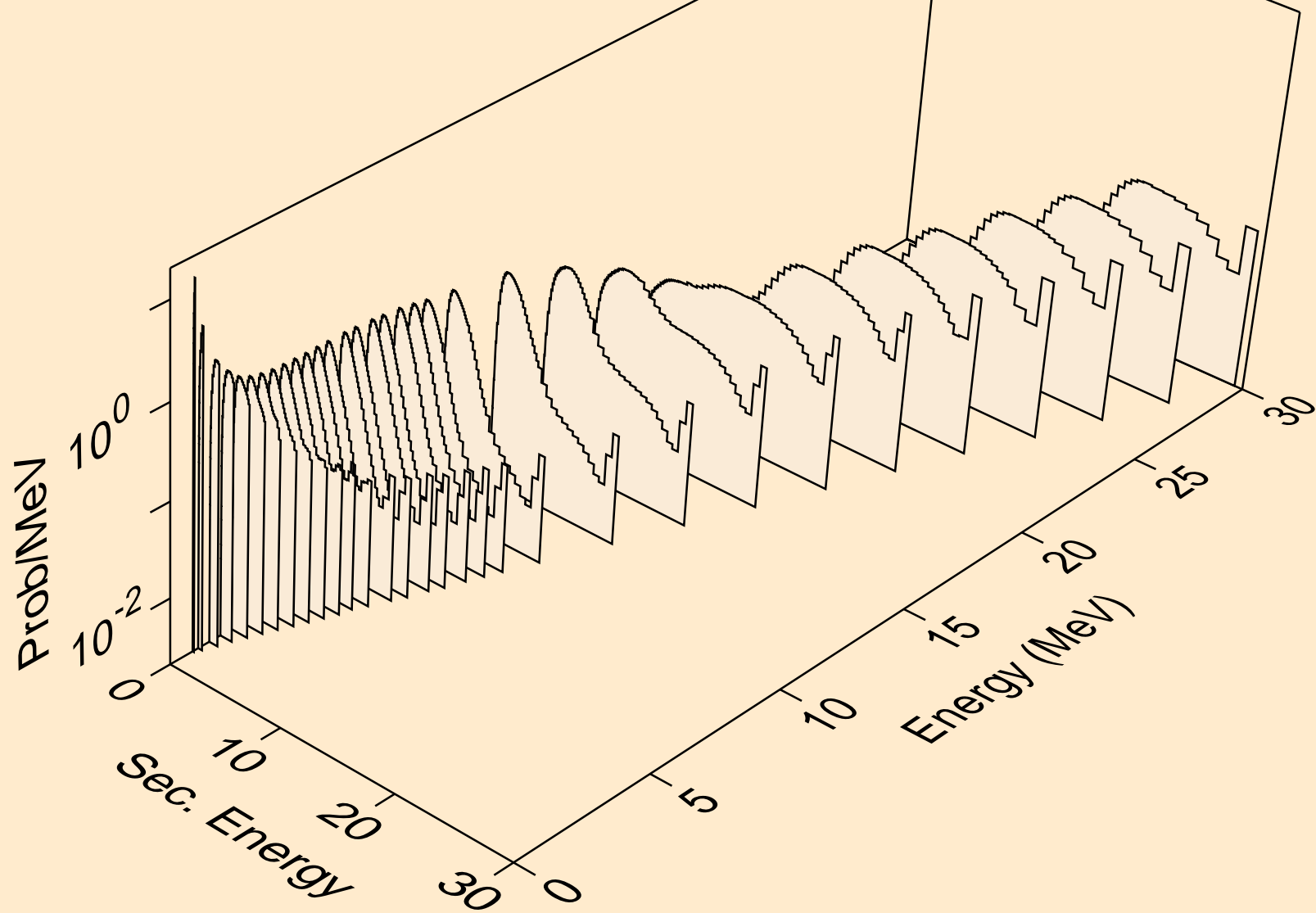
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Neutron emission for (n,n2p)



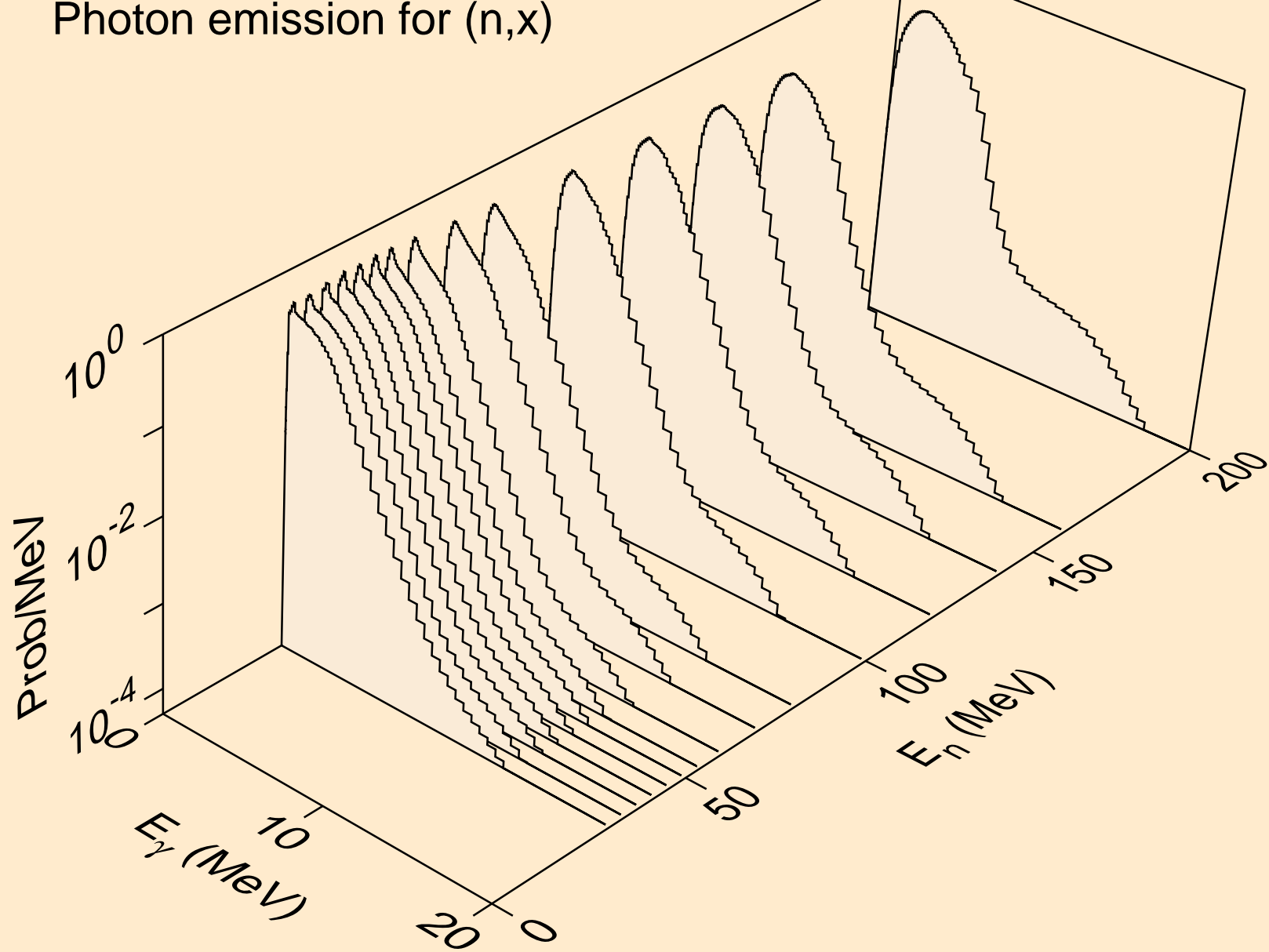
HG189 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,npa)



HG189 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,n\*c)

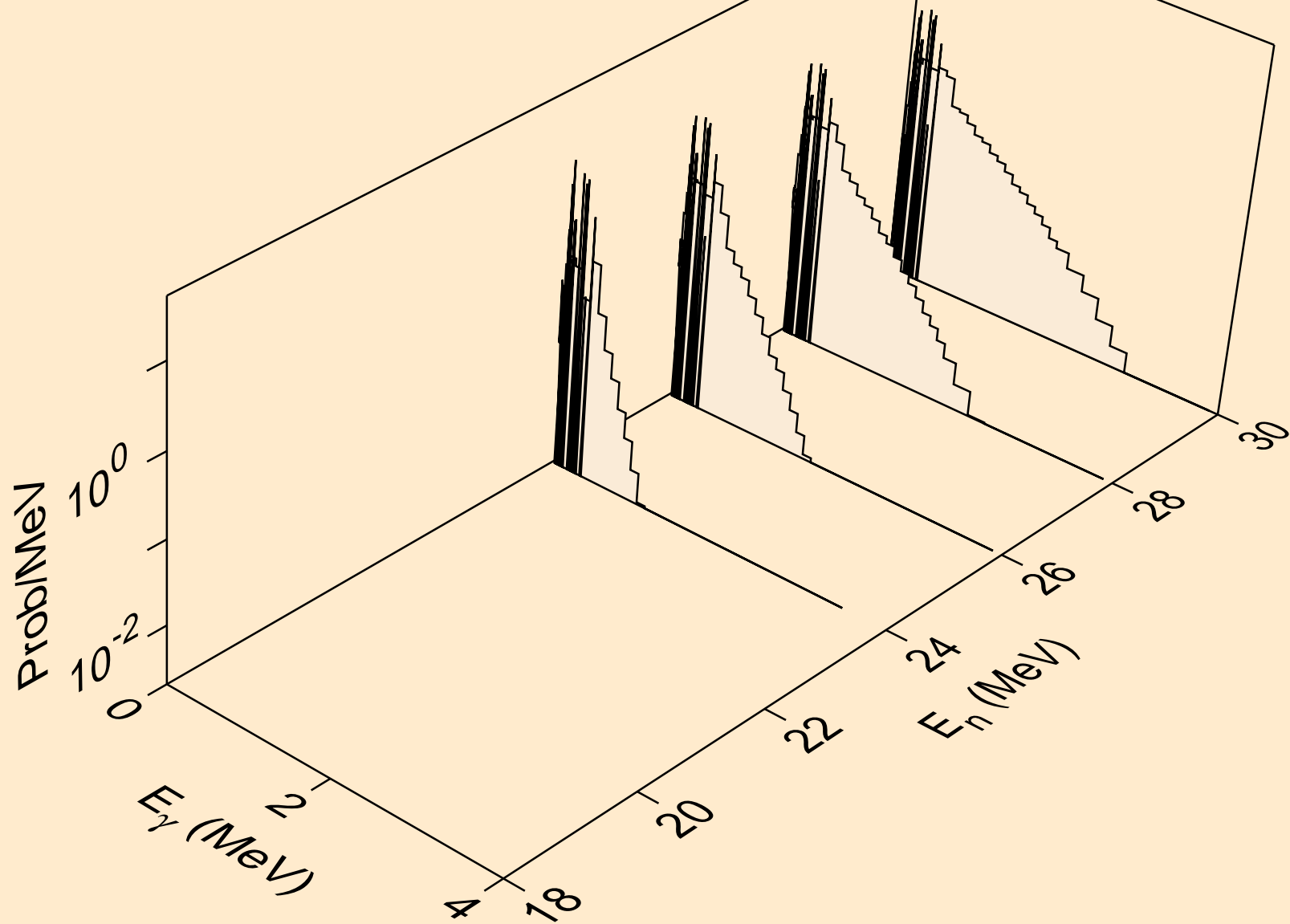


HG189 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,x)

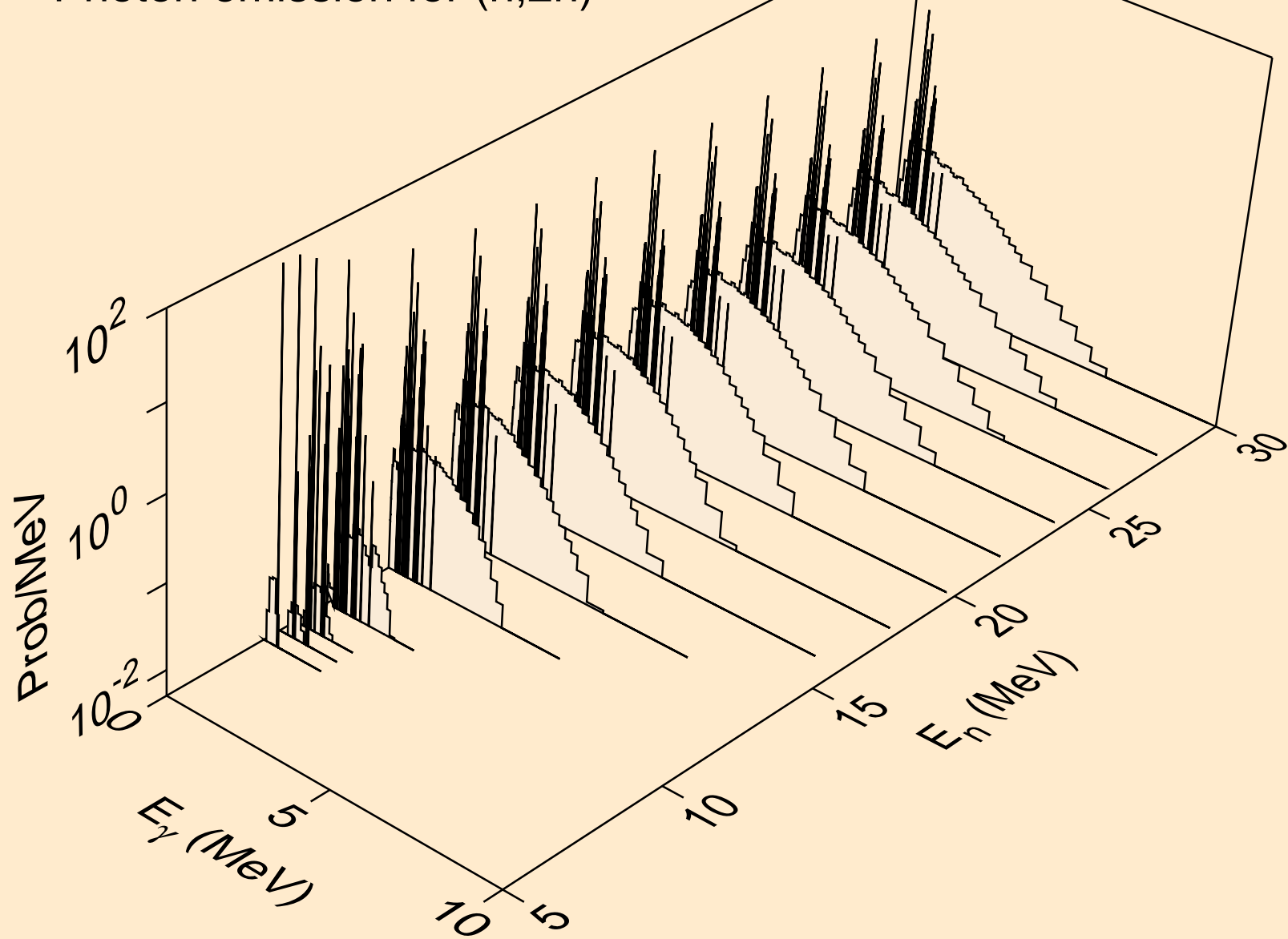




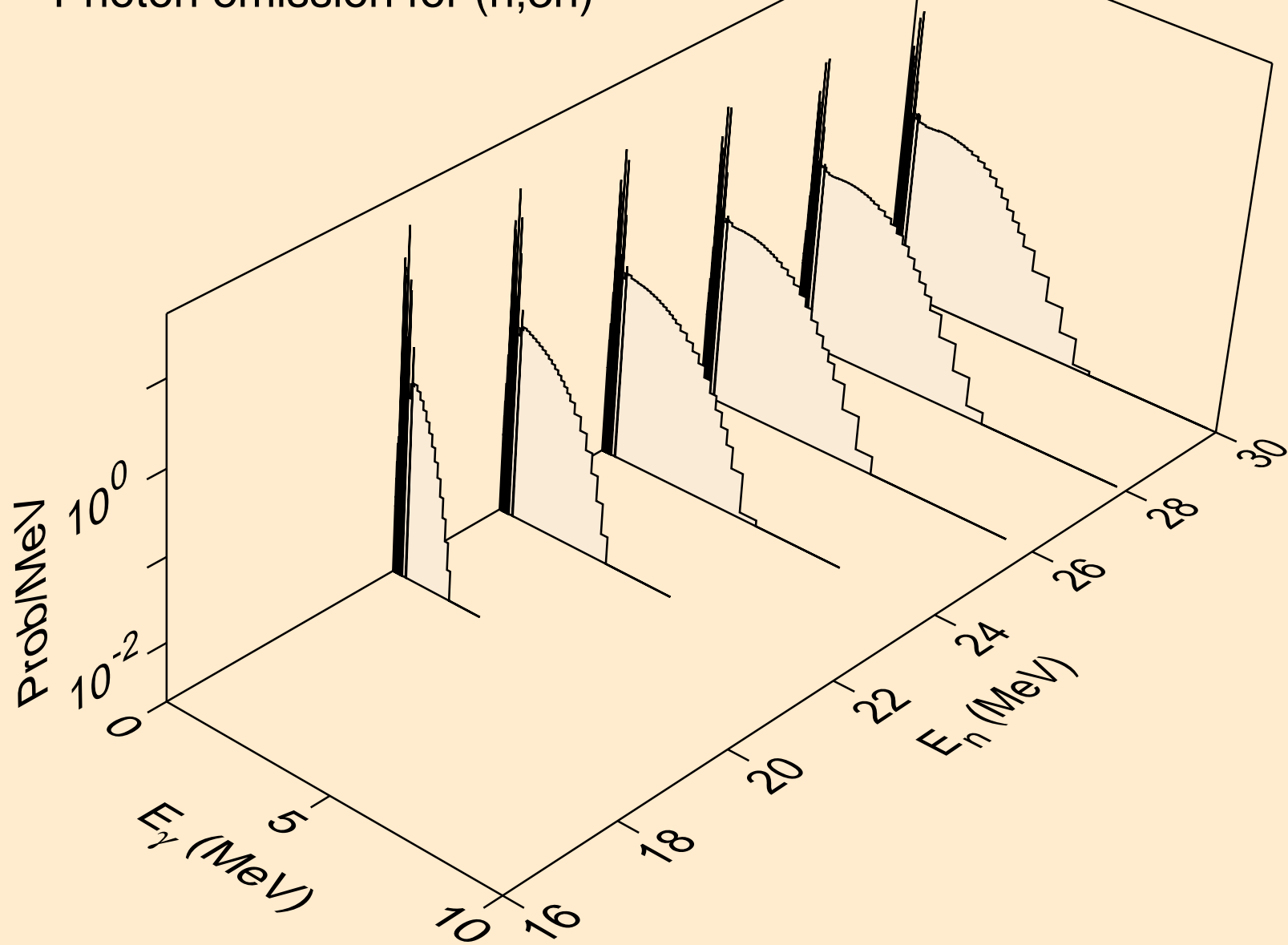
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Photon emission for (n,2nd)



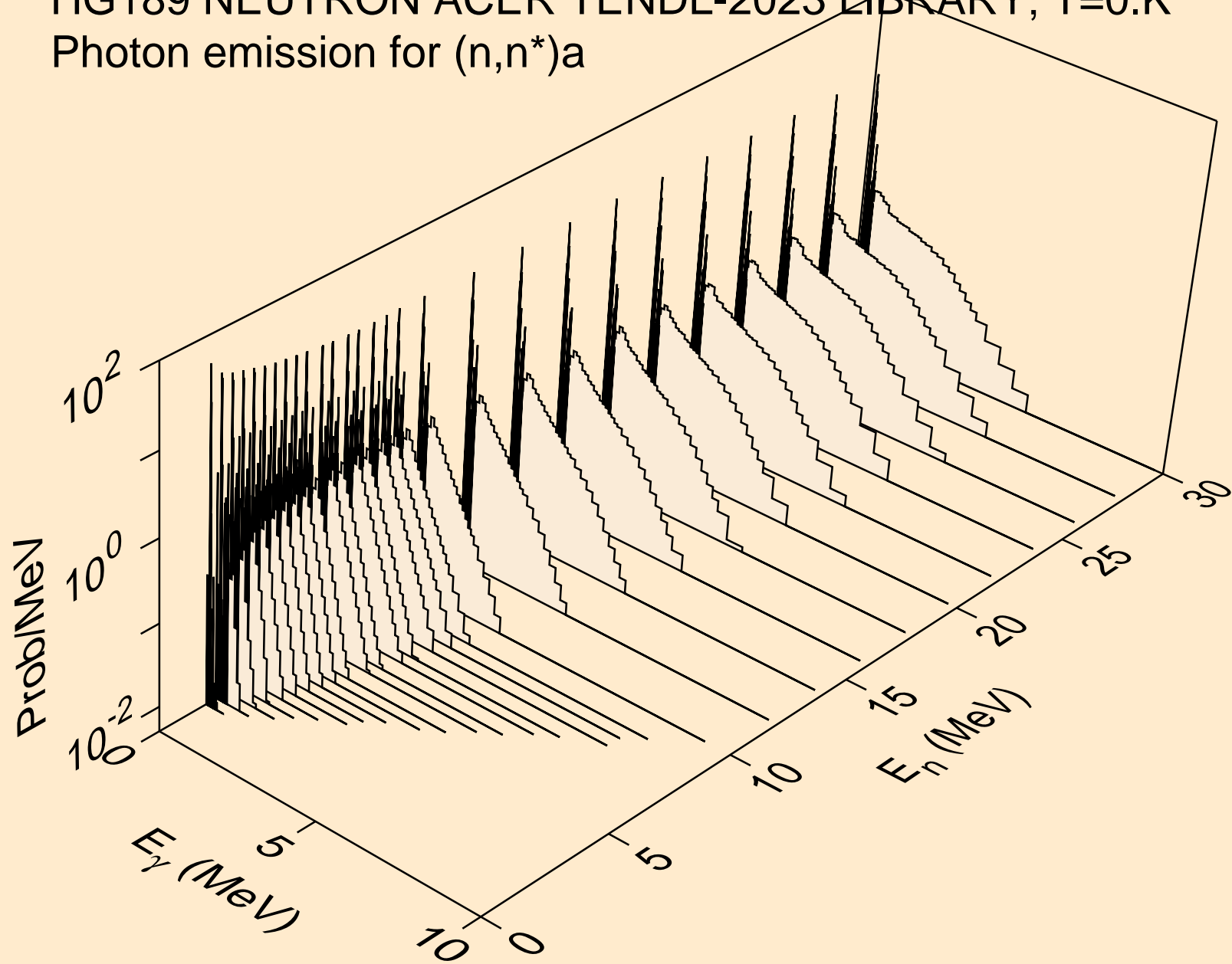
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Photon emission for (n,2n)



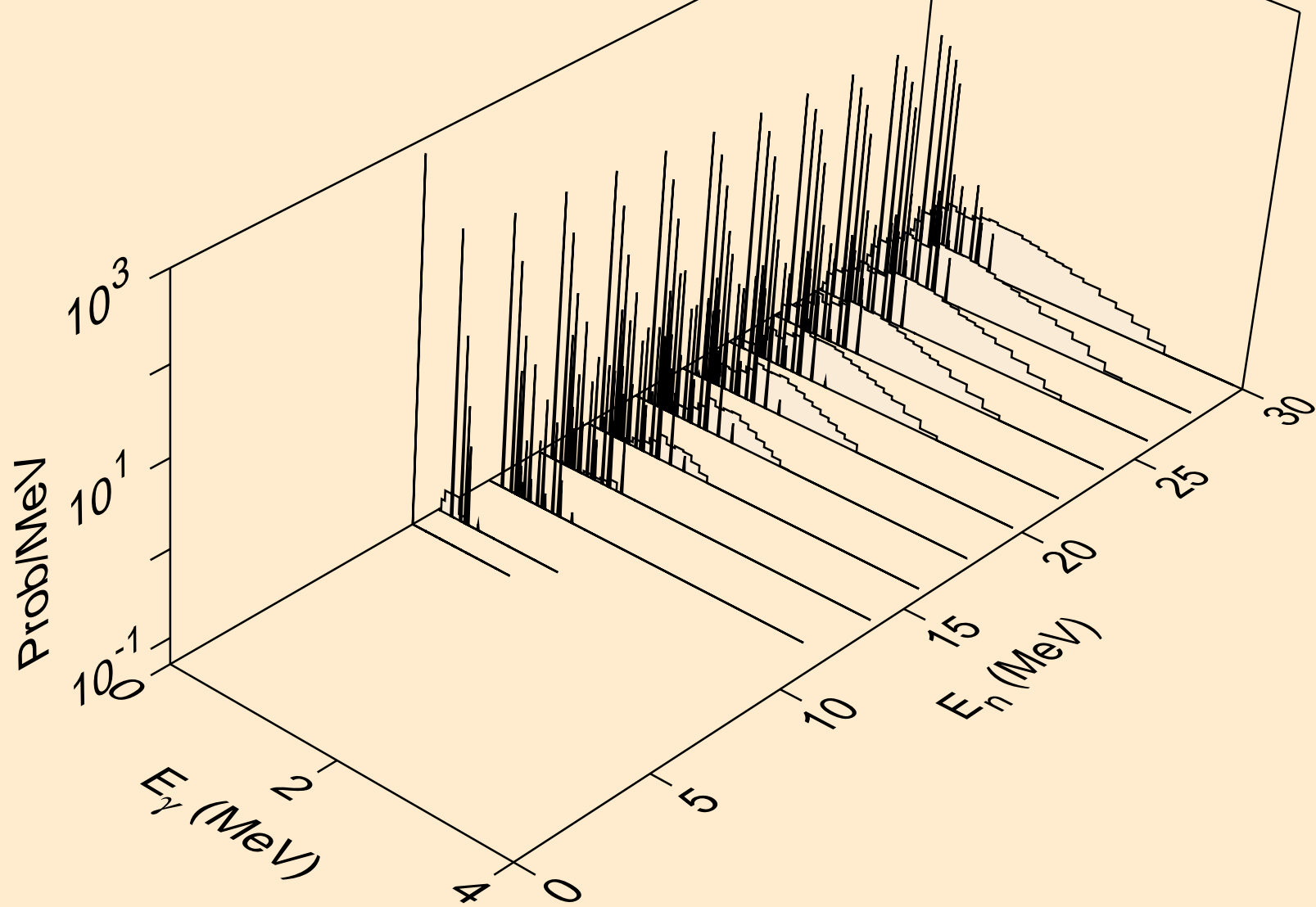
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Photon emission for (n,3n)



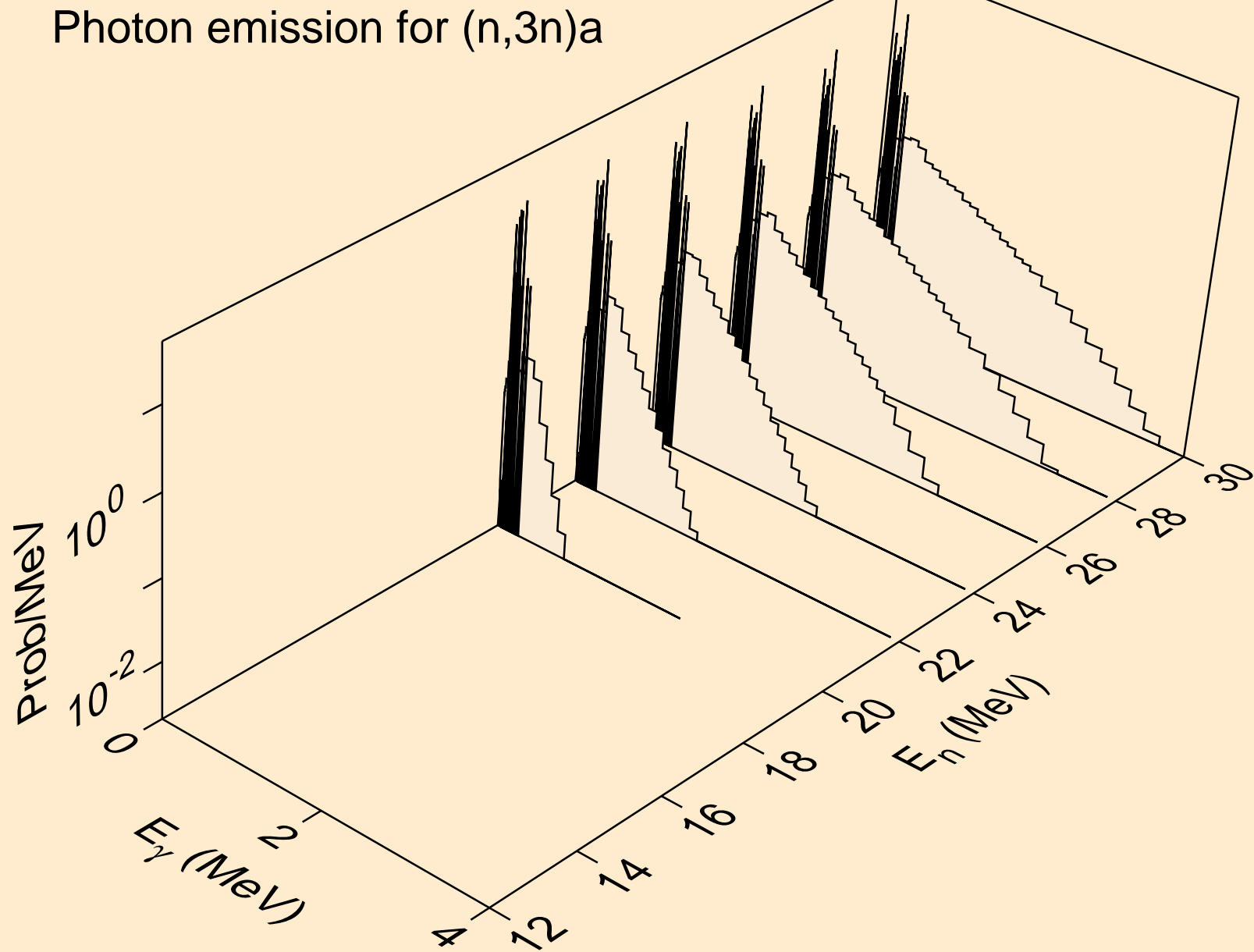
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Photon emission for (n,n\*)a



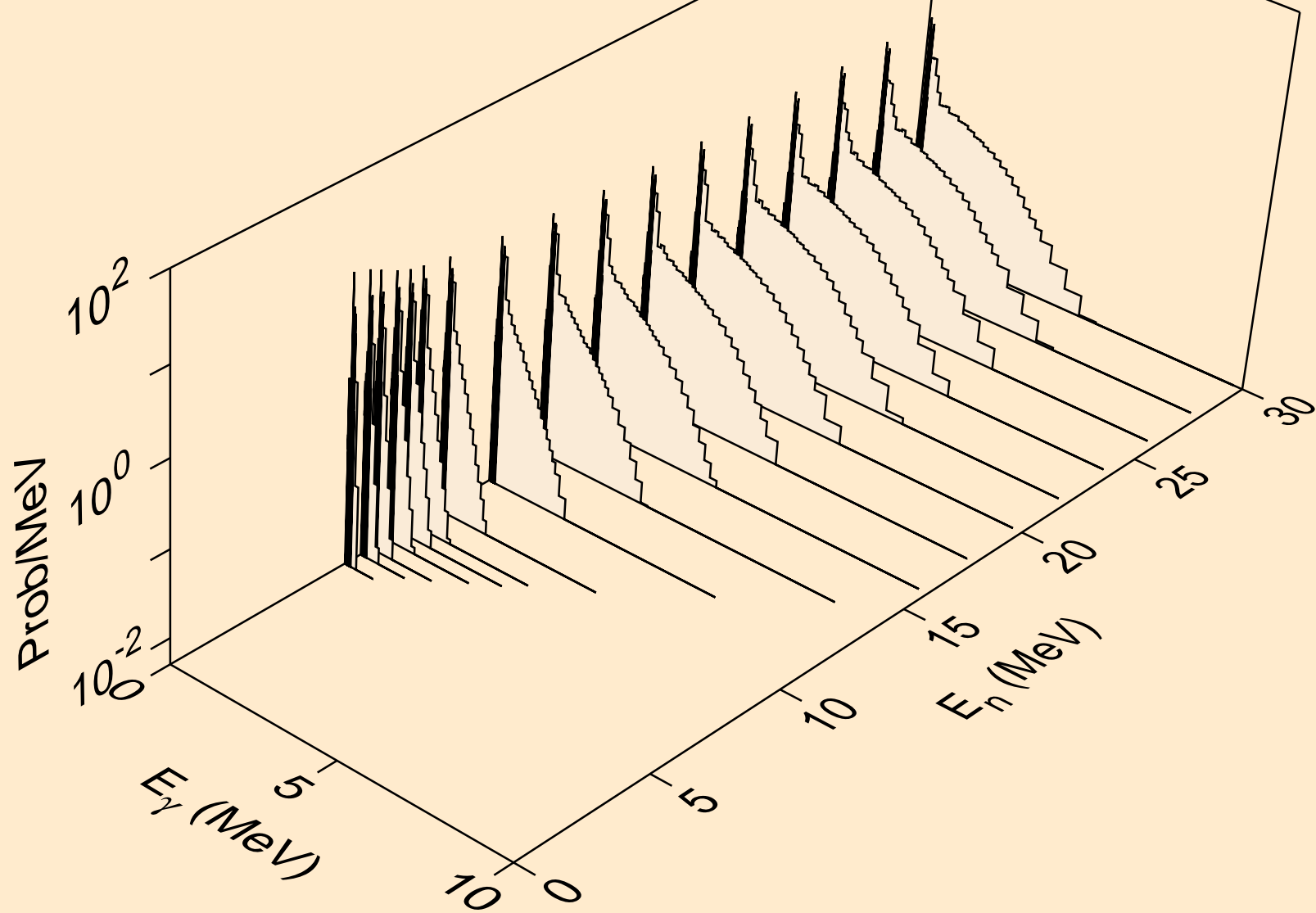
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Photon emission for (n,2n)a



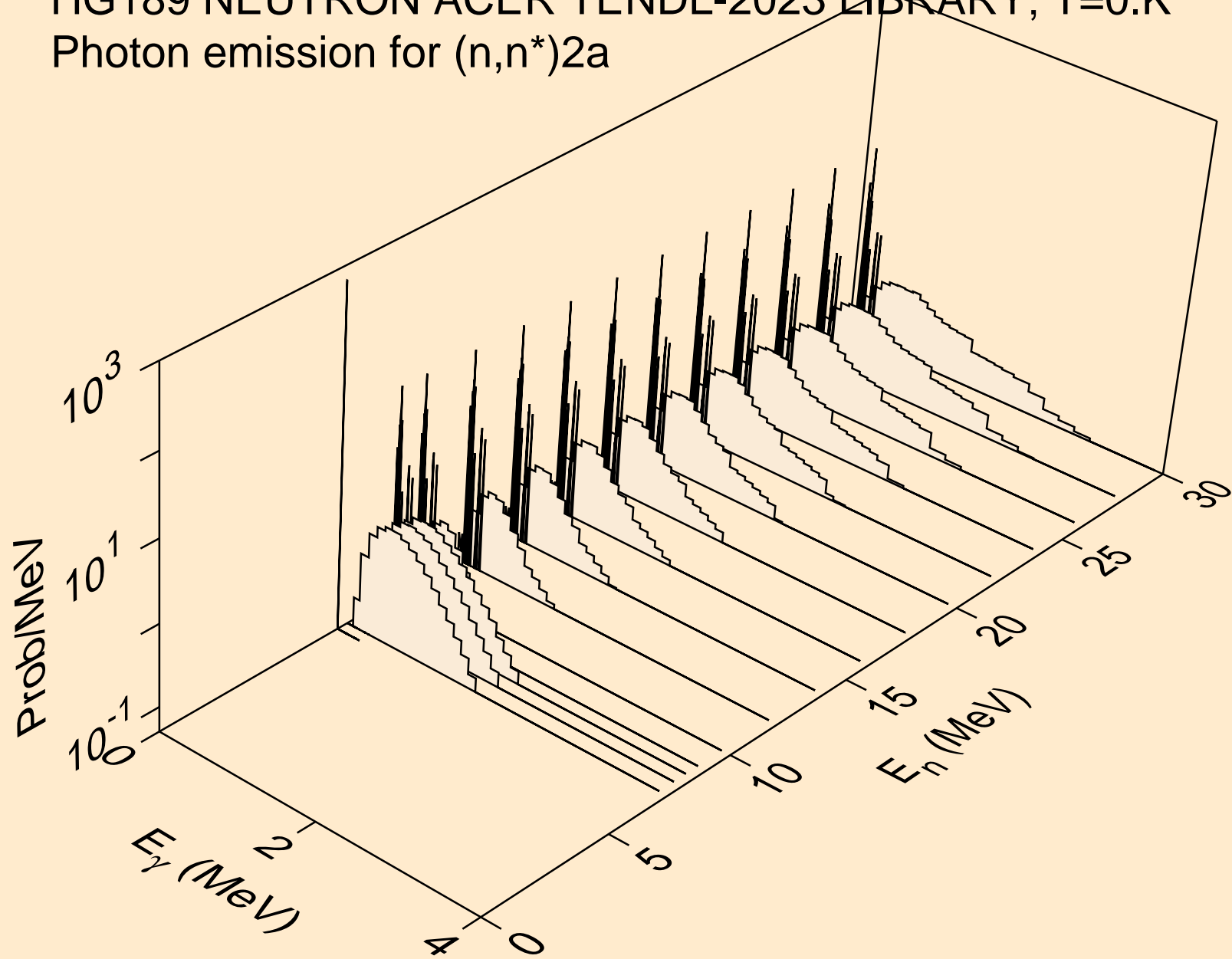
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Photon emission for (n,3n)a



HG189 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)p

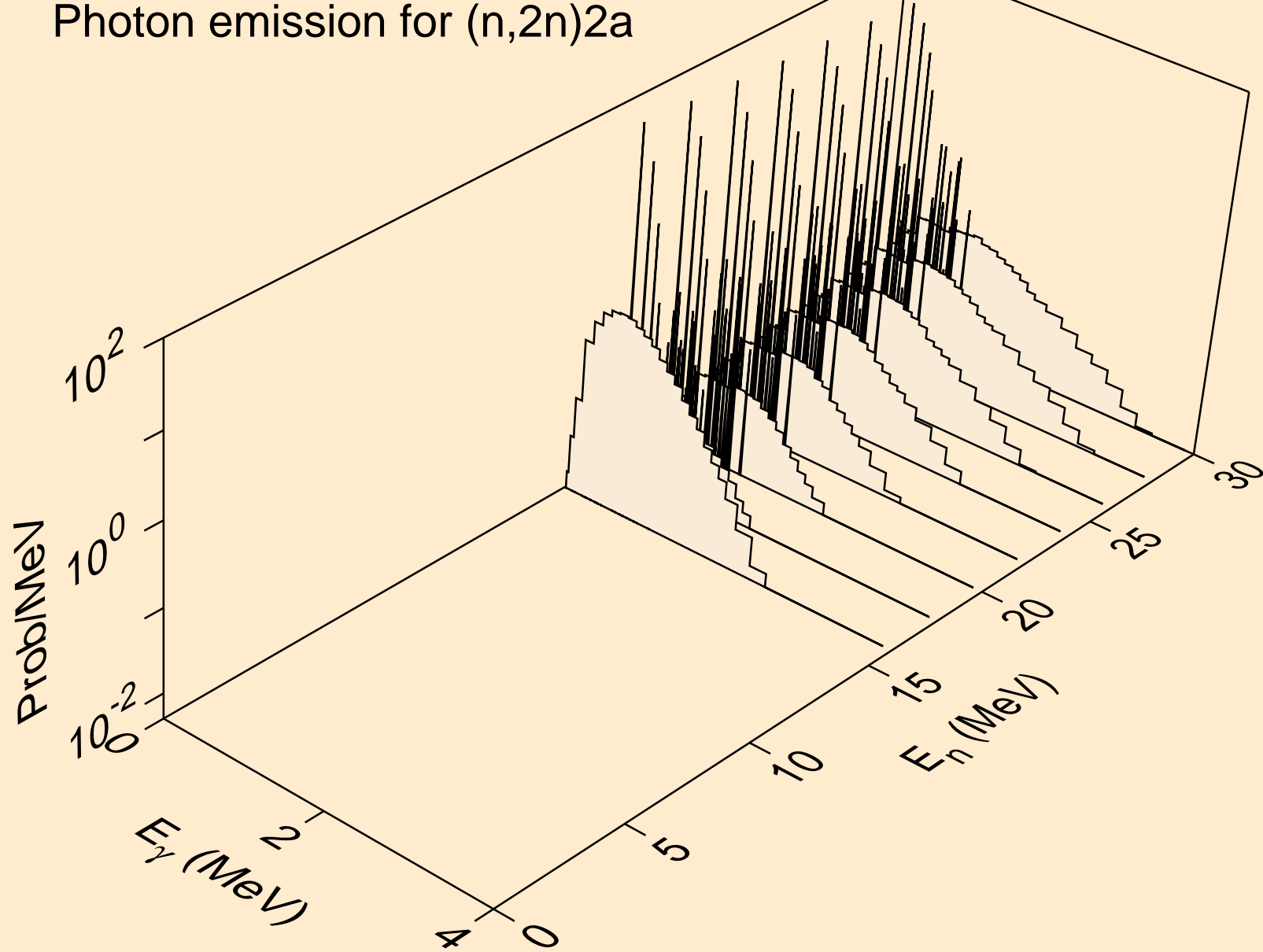


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Photon emission for (n,n\*)2a

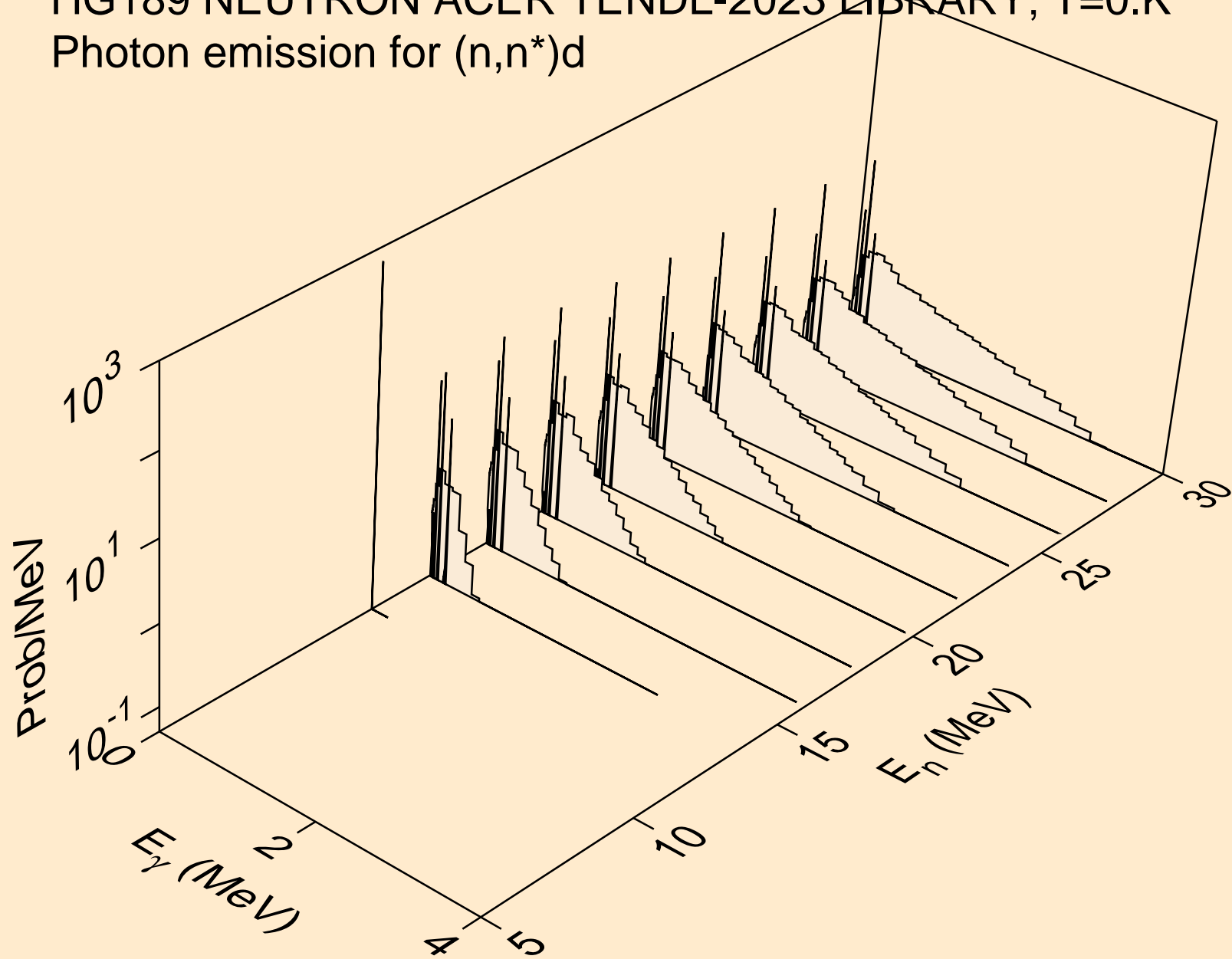




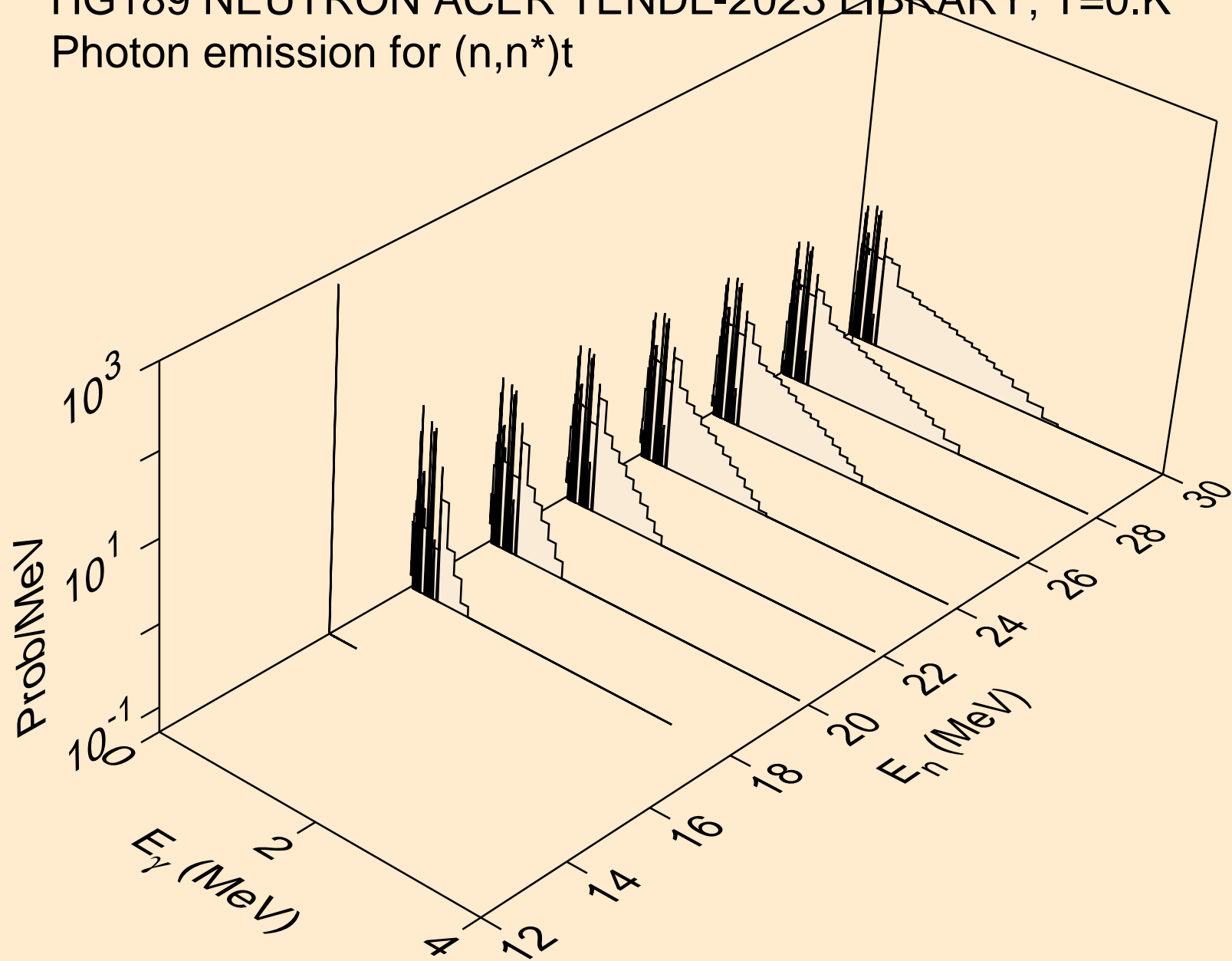
HG189 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2n)2a



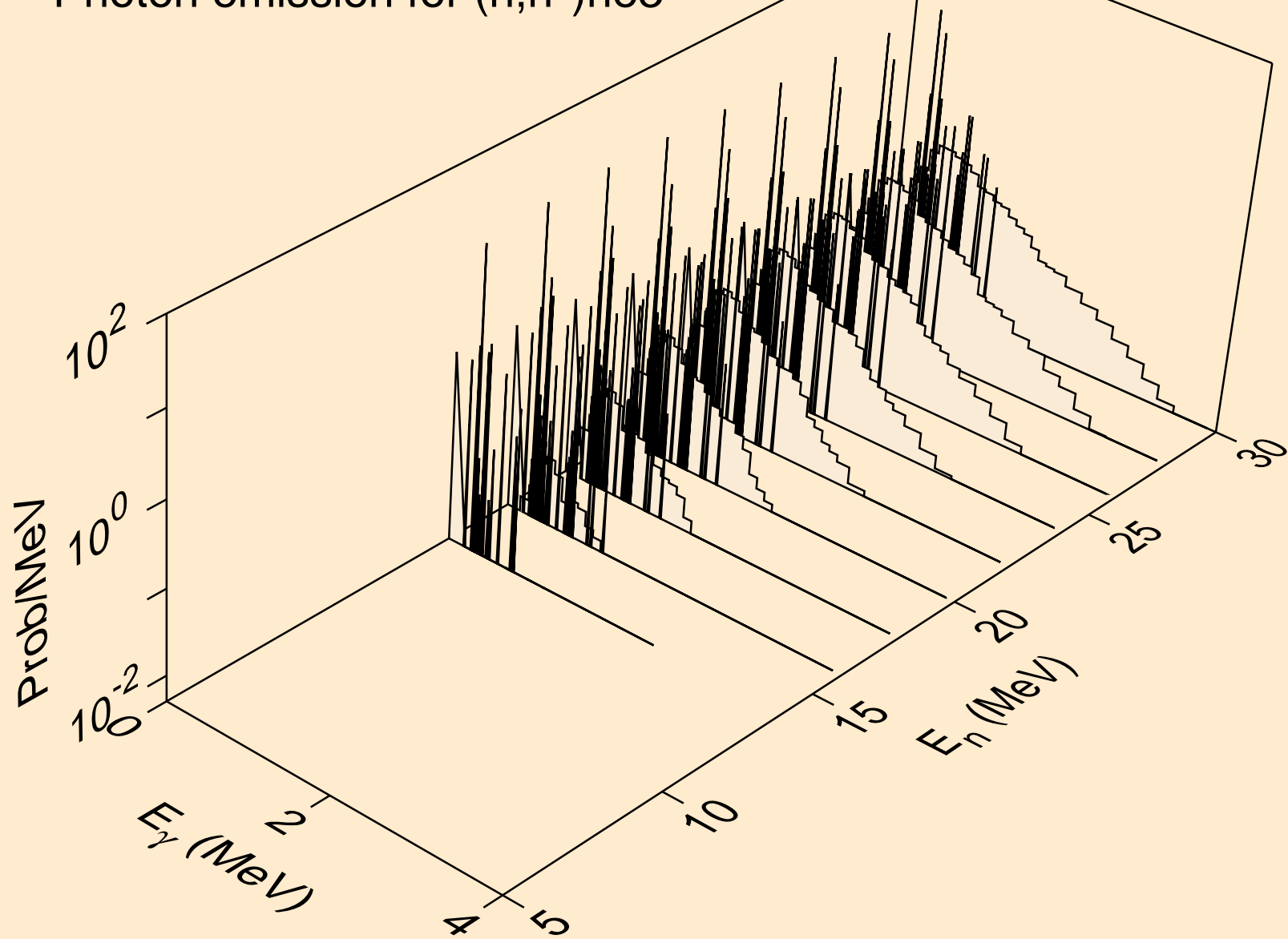
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Photon emission for (n,n\*)d



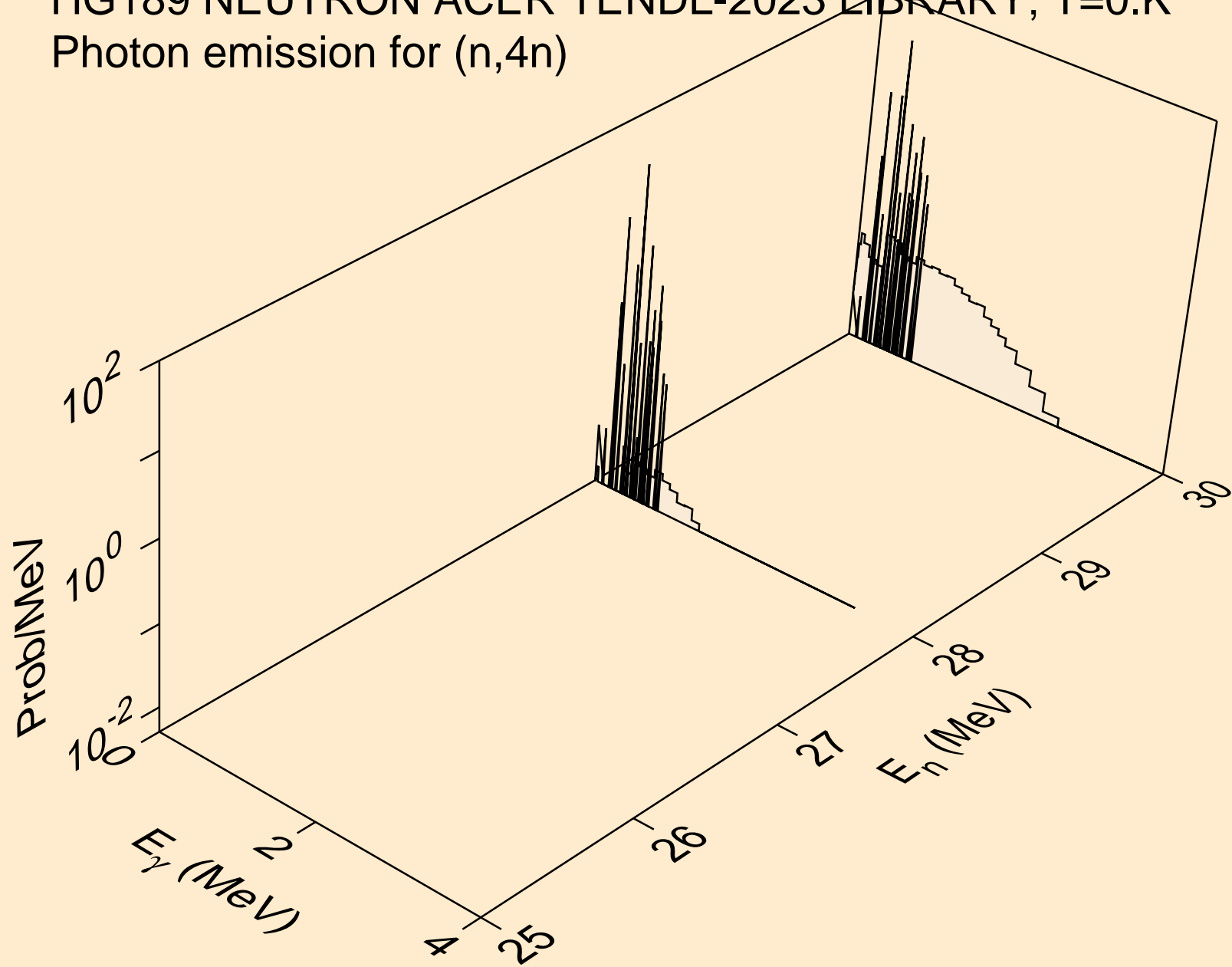
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Photon emission for (n,n\*)t



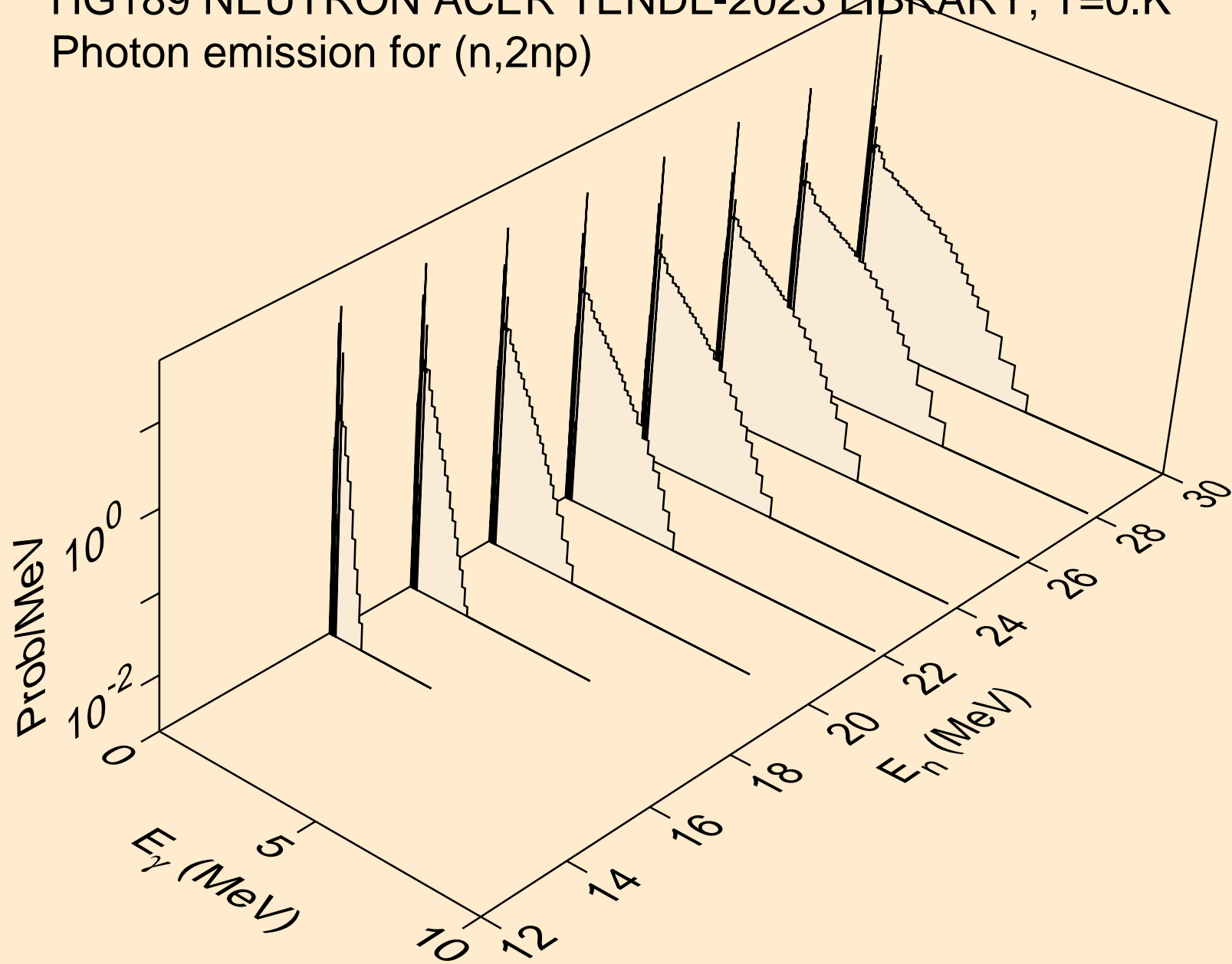
HG189 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)he3



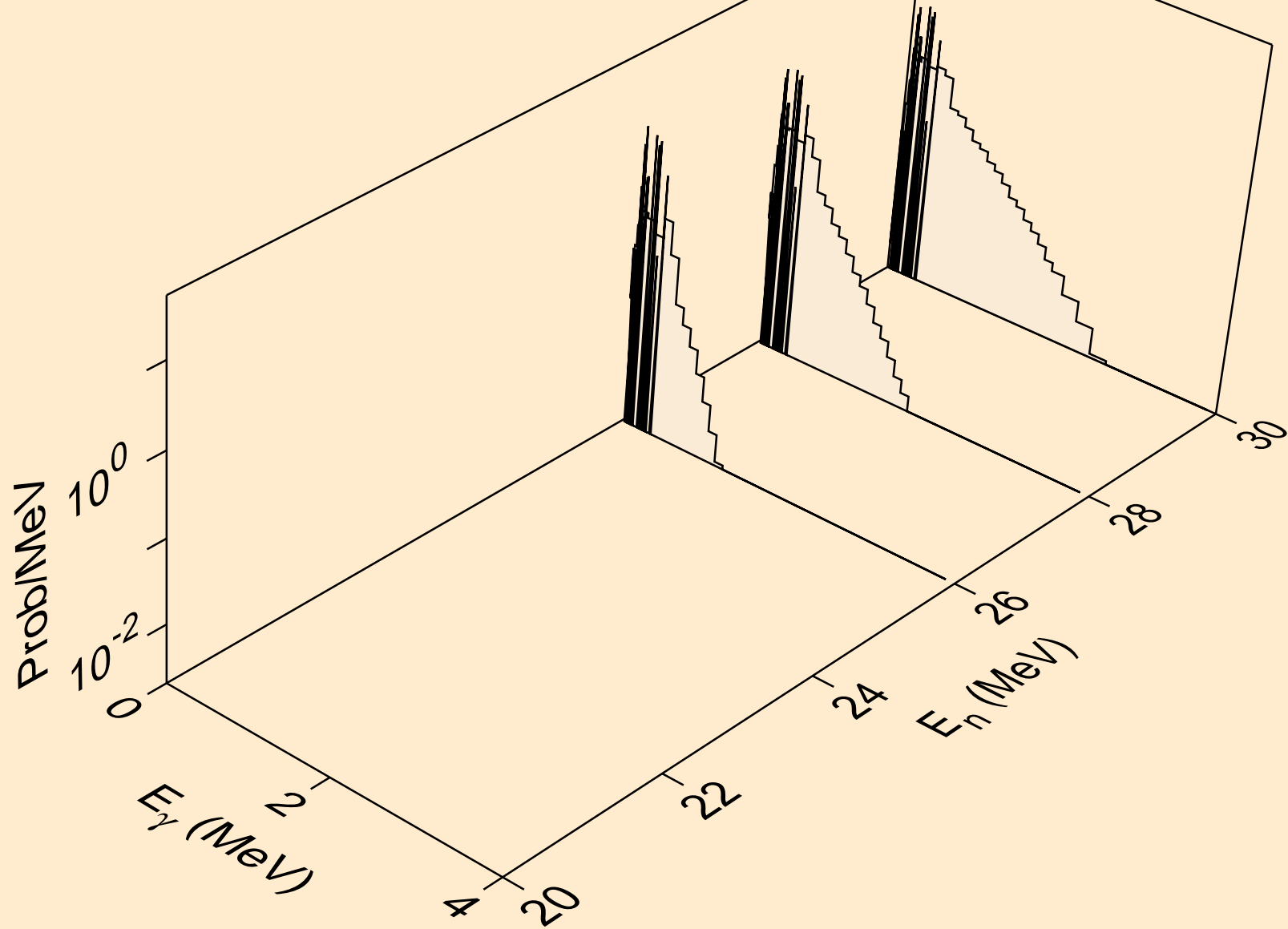
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Photon emission for (n,4n)



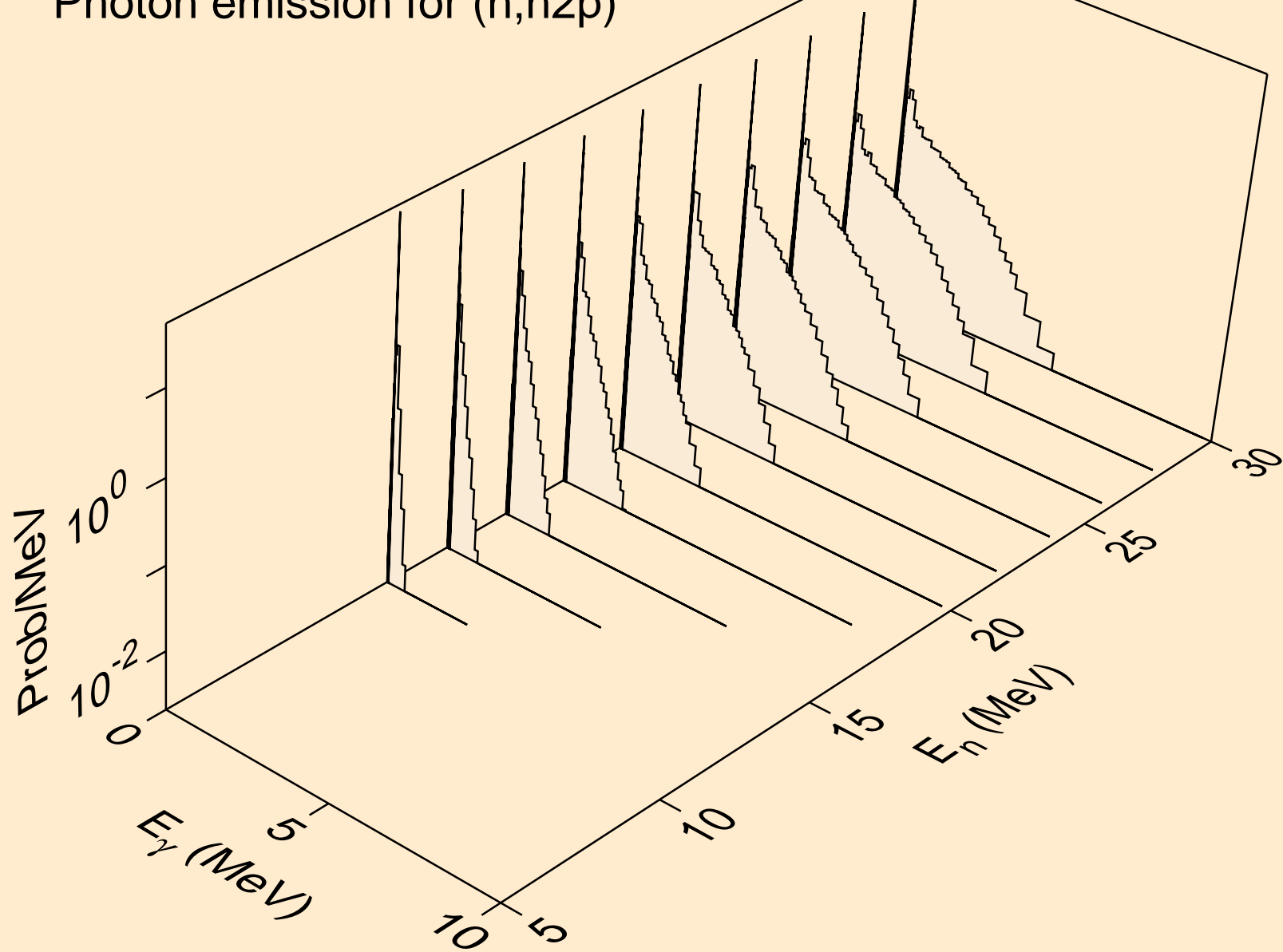
HG189 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2np)



HG189 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,3np)

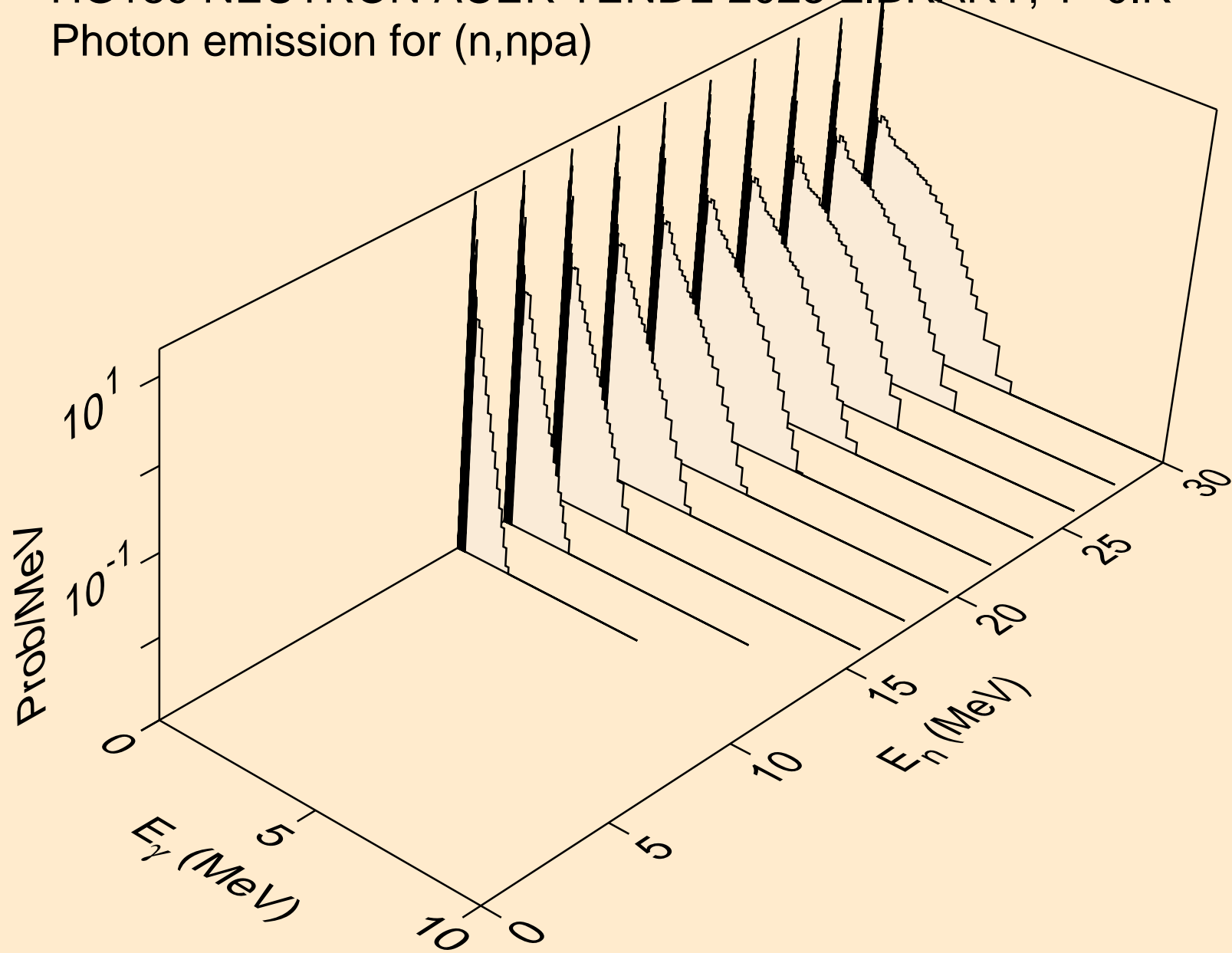


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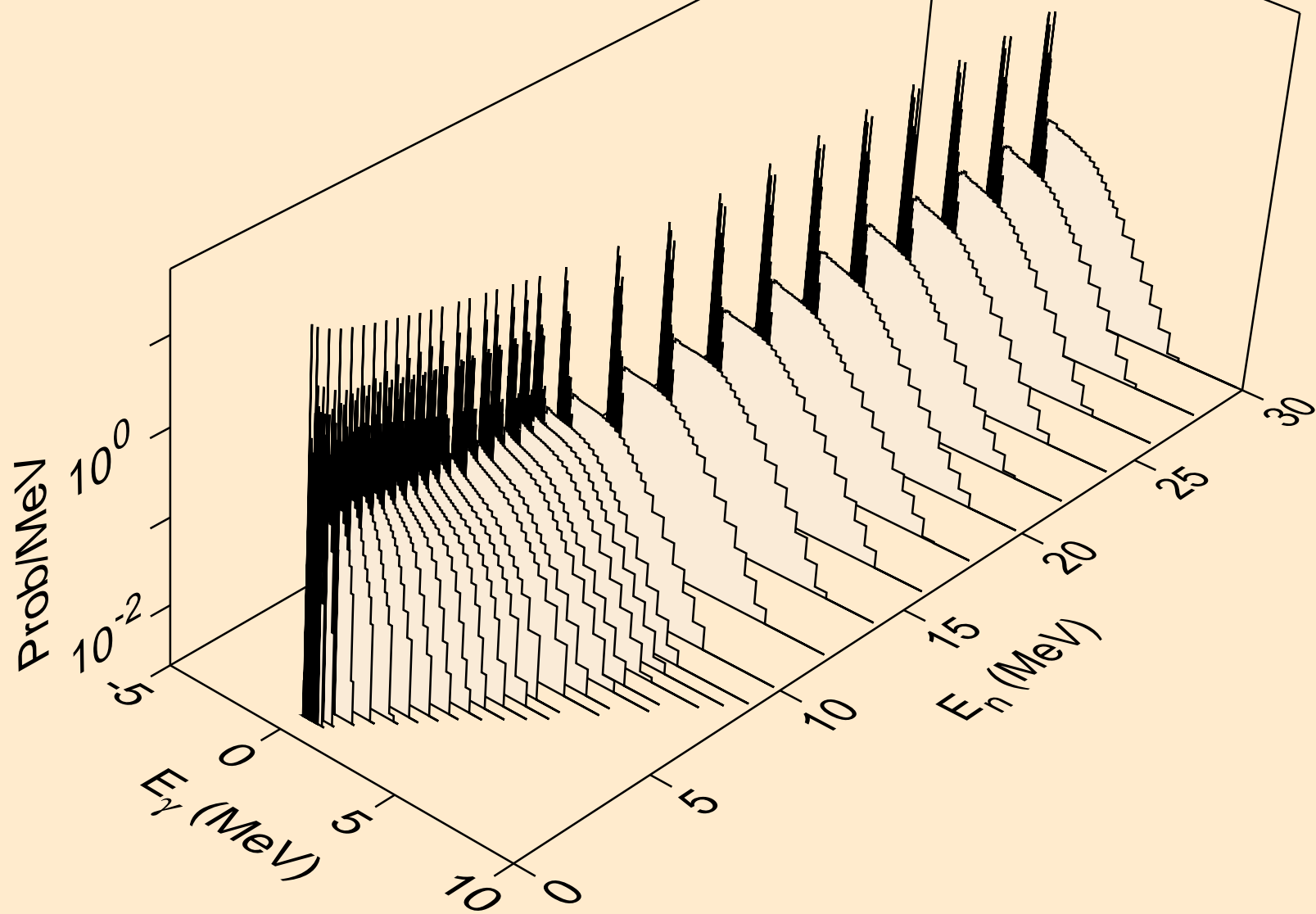




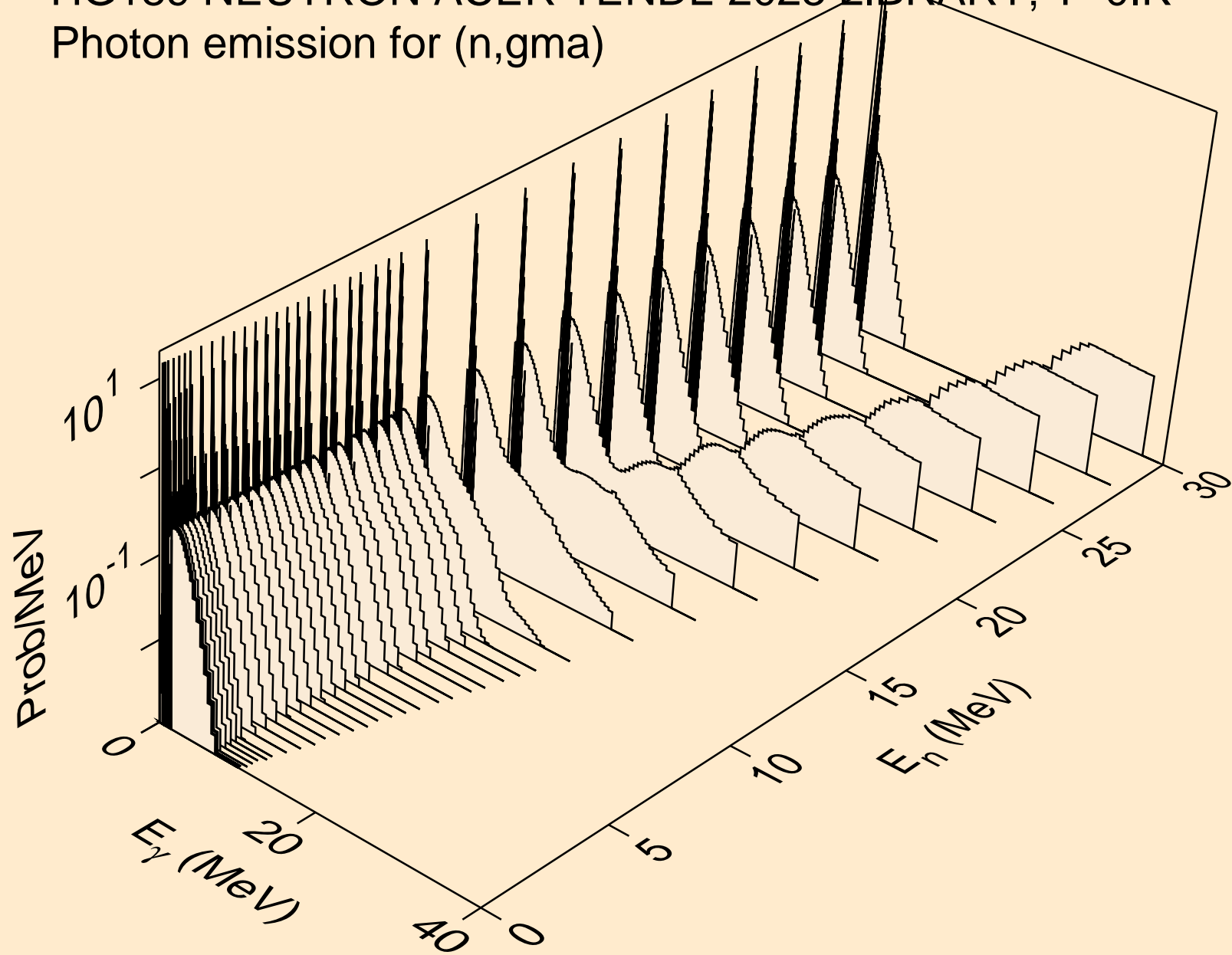
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Photon emission for (n,npa)



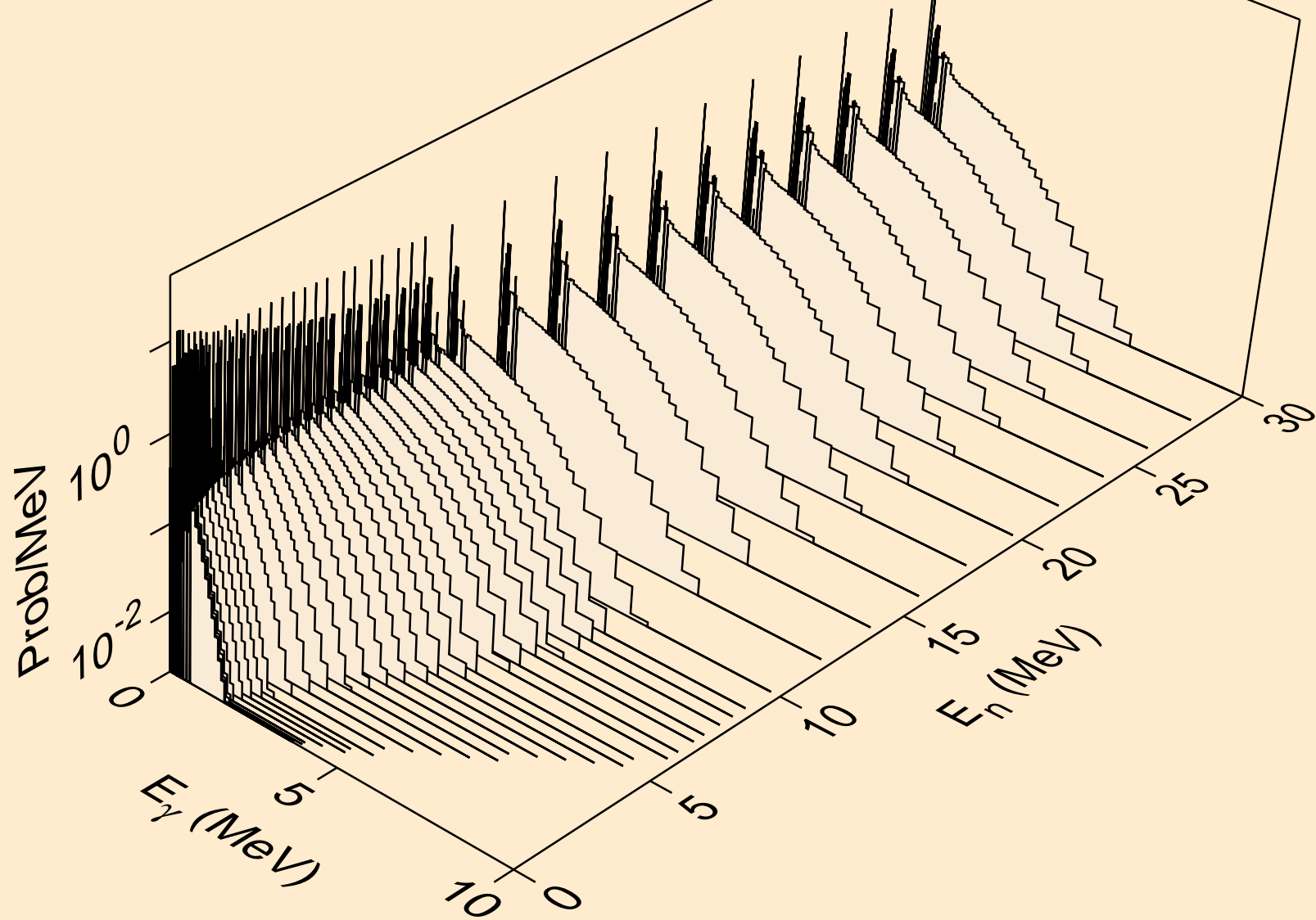
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Photon emission for (n,n\*c)



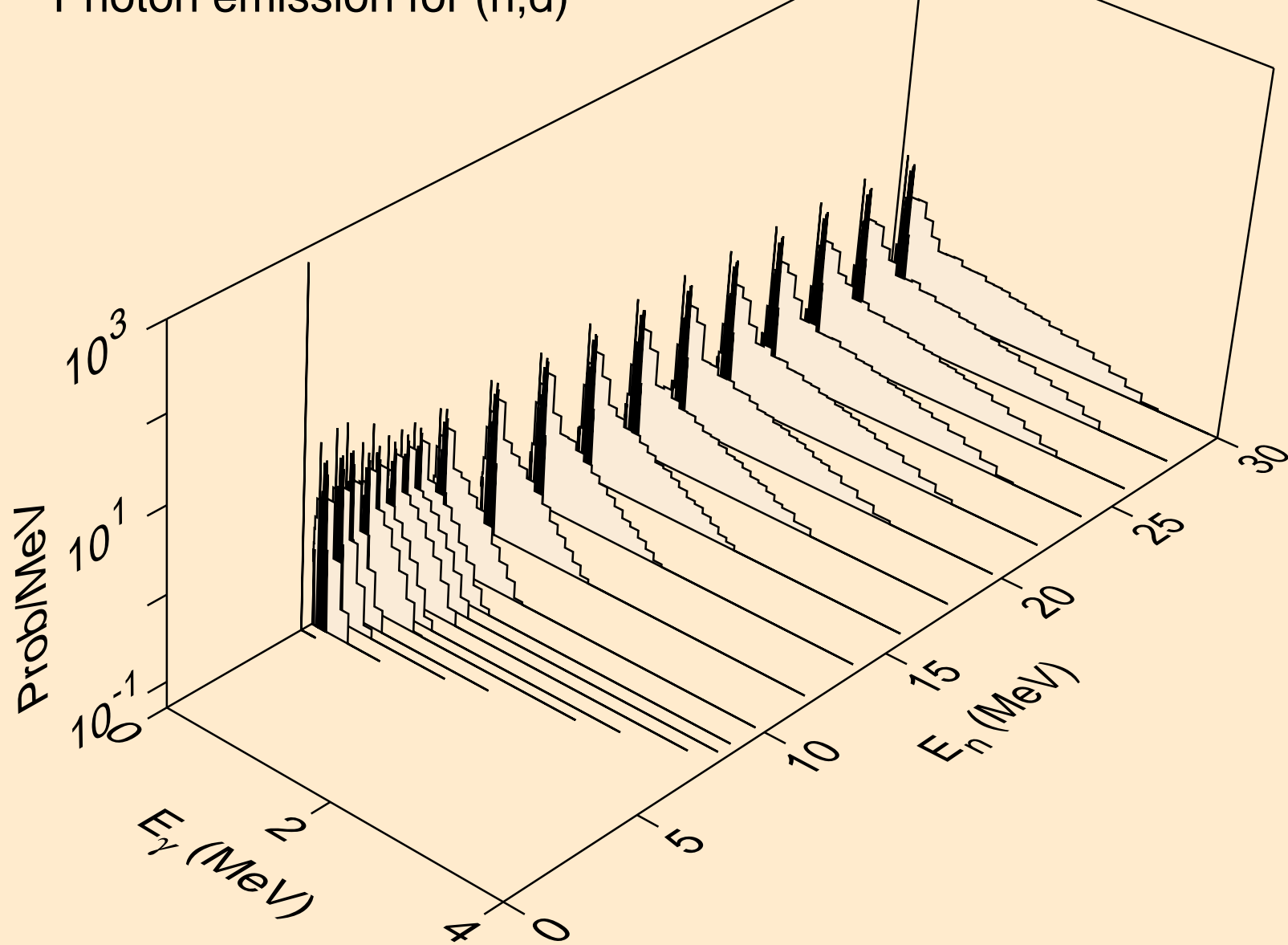
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Photon emission for (n,gma)



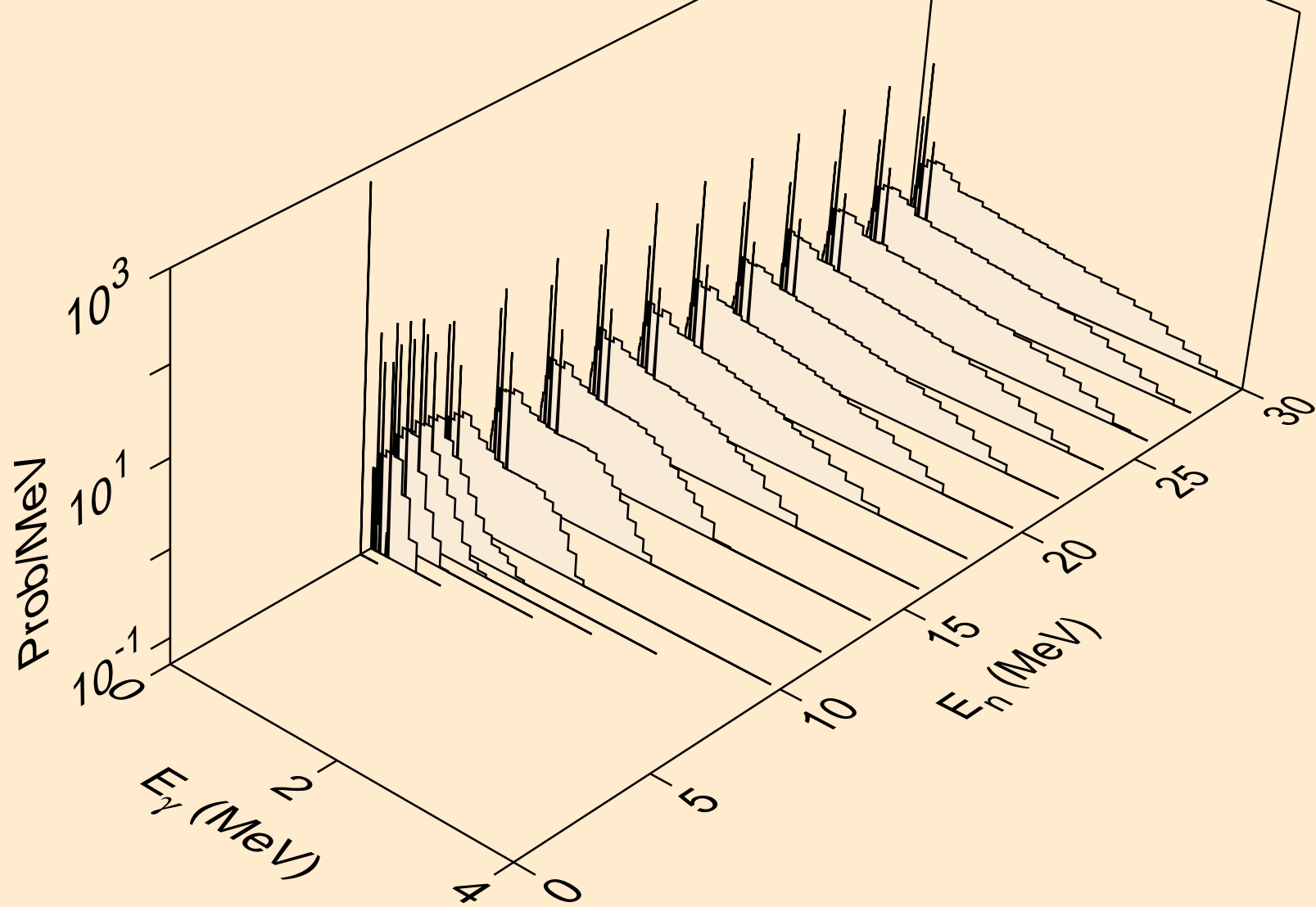
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Photon emission for (n,p)



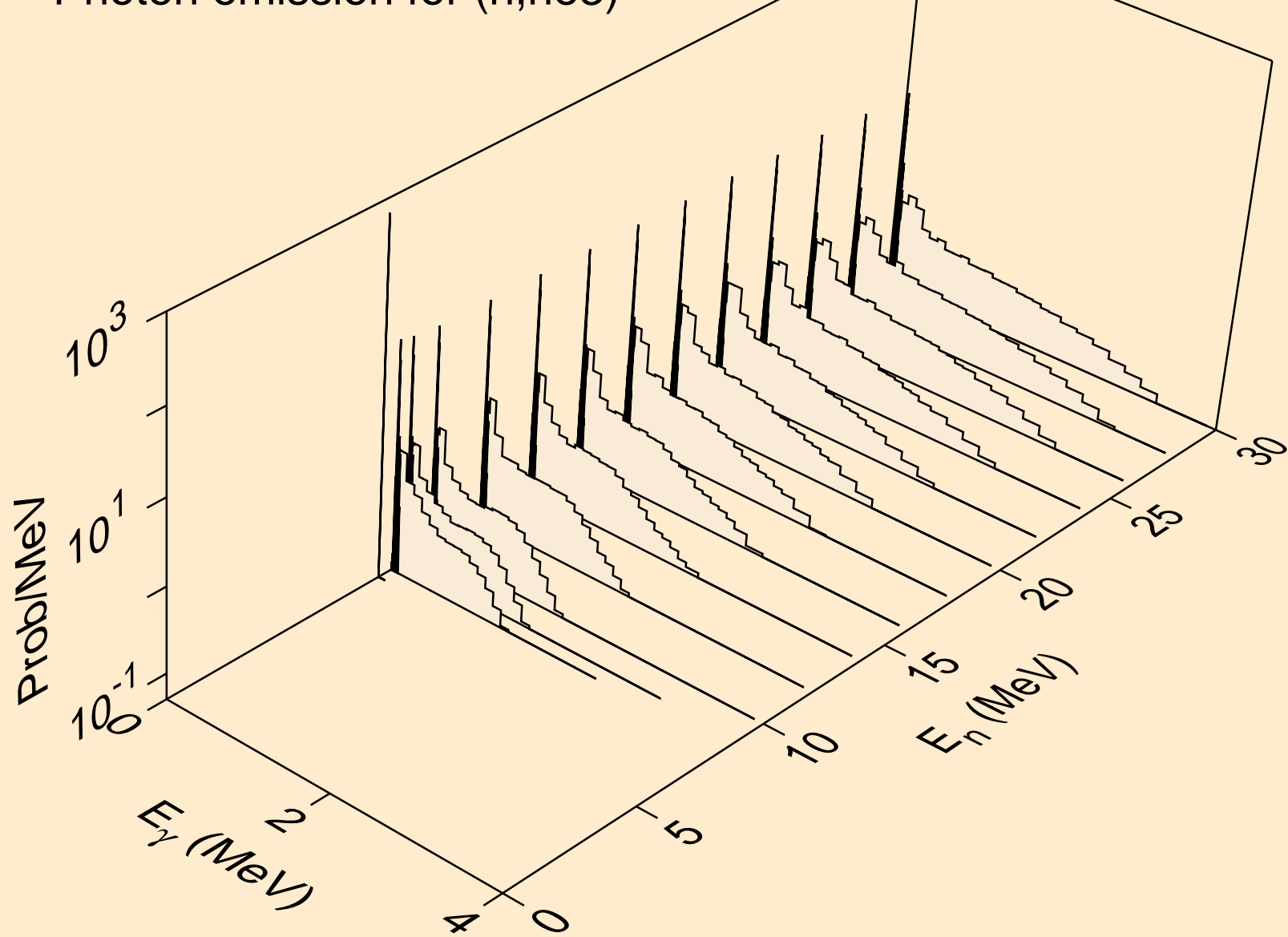
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Photon emission for (n,d)



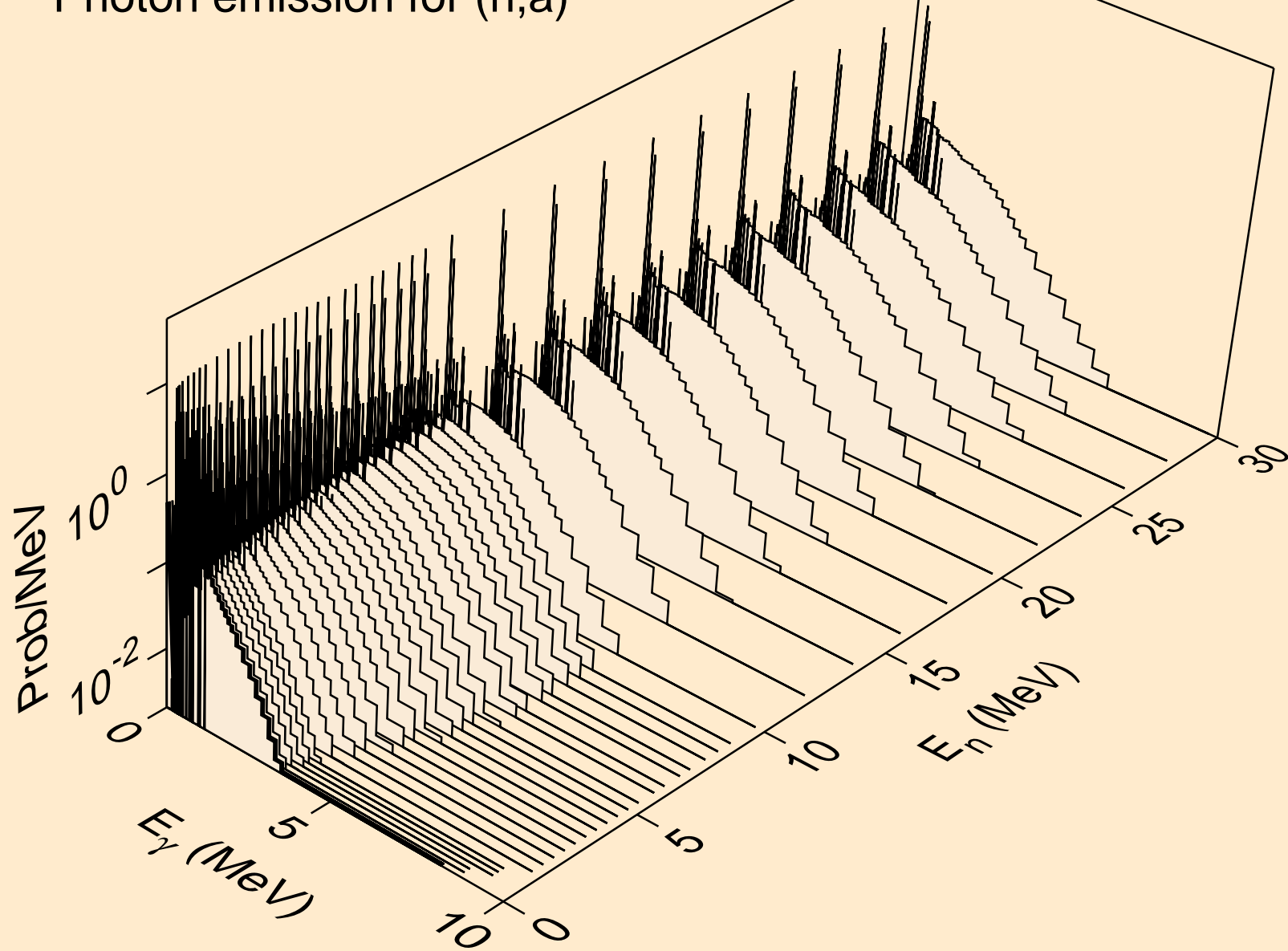
HG189 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,t)



HG189 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,he3)

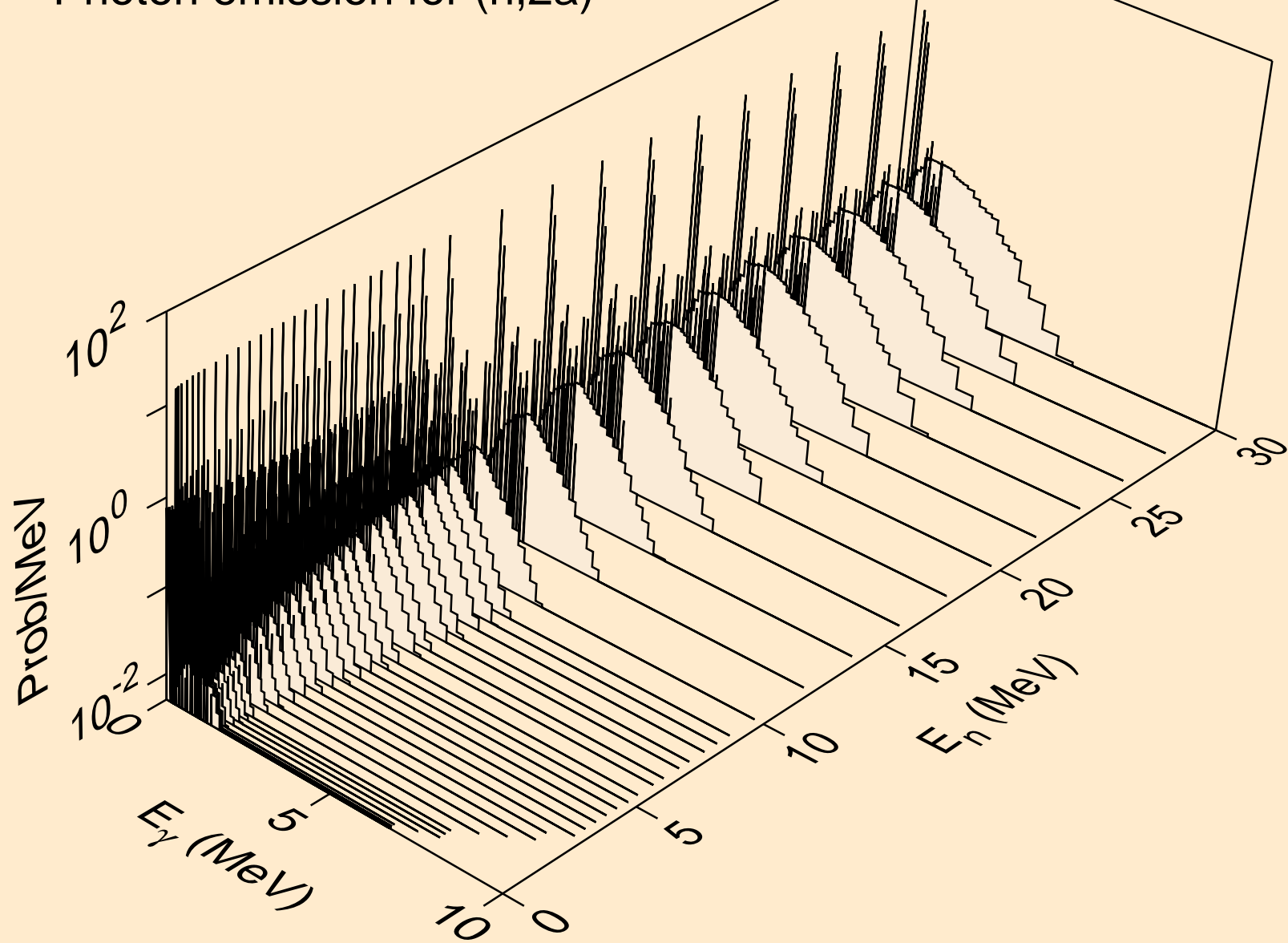


HG189 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,a)

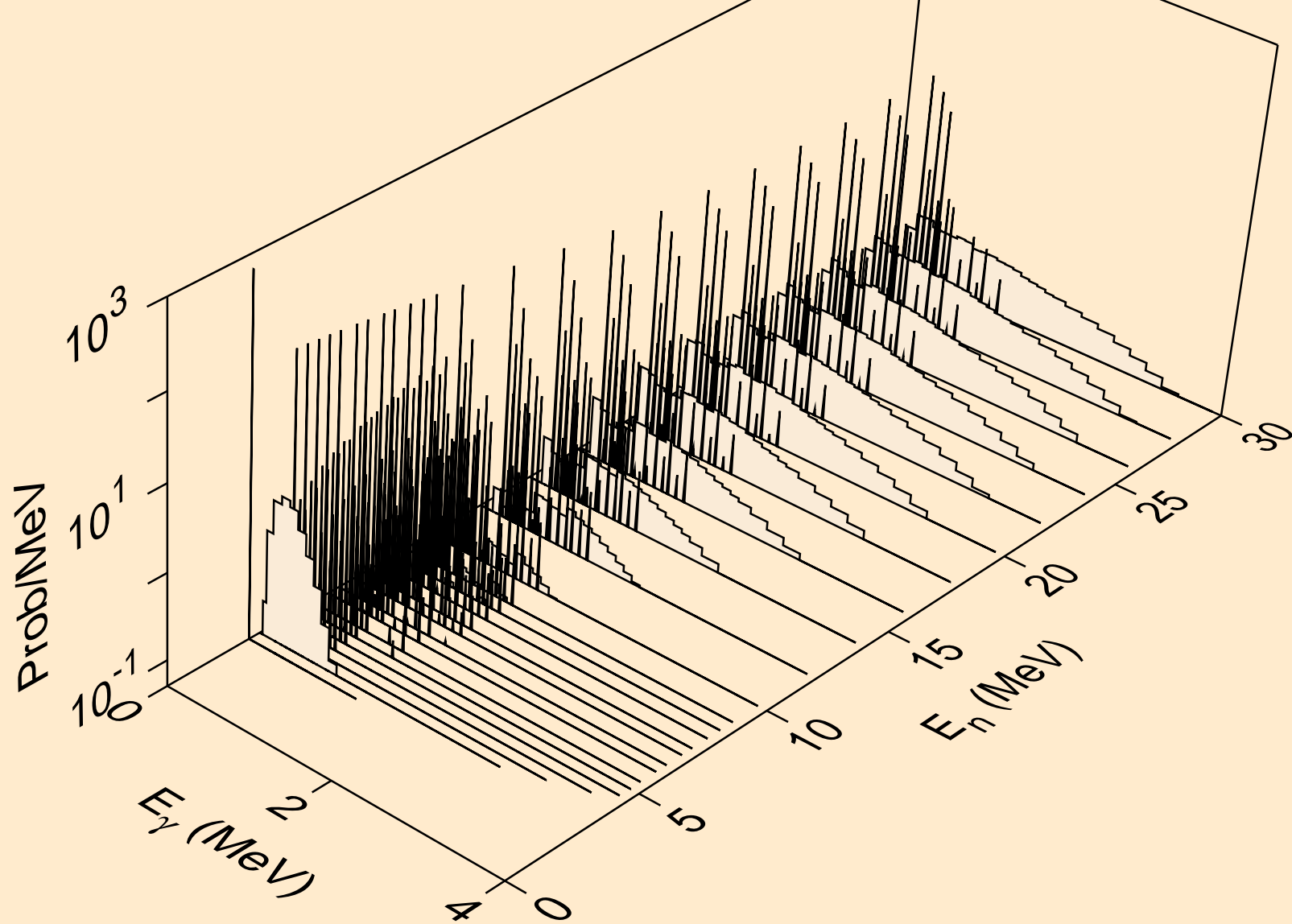




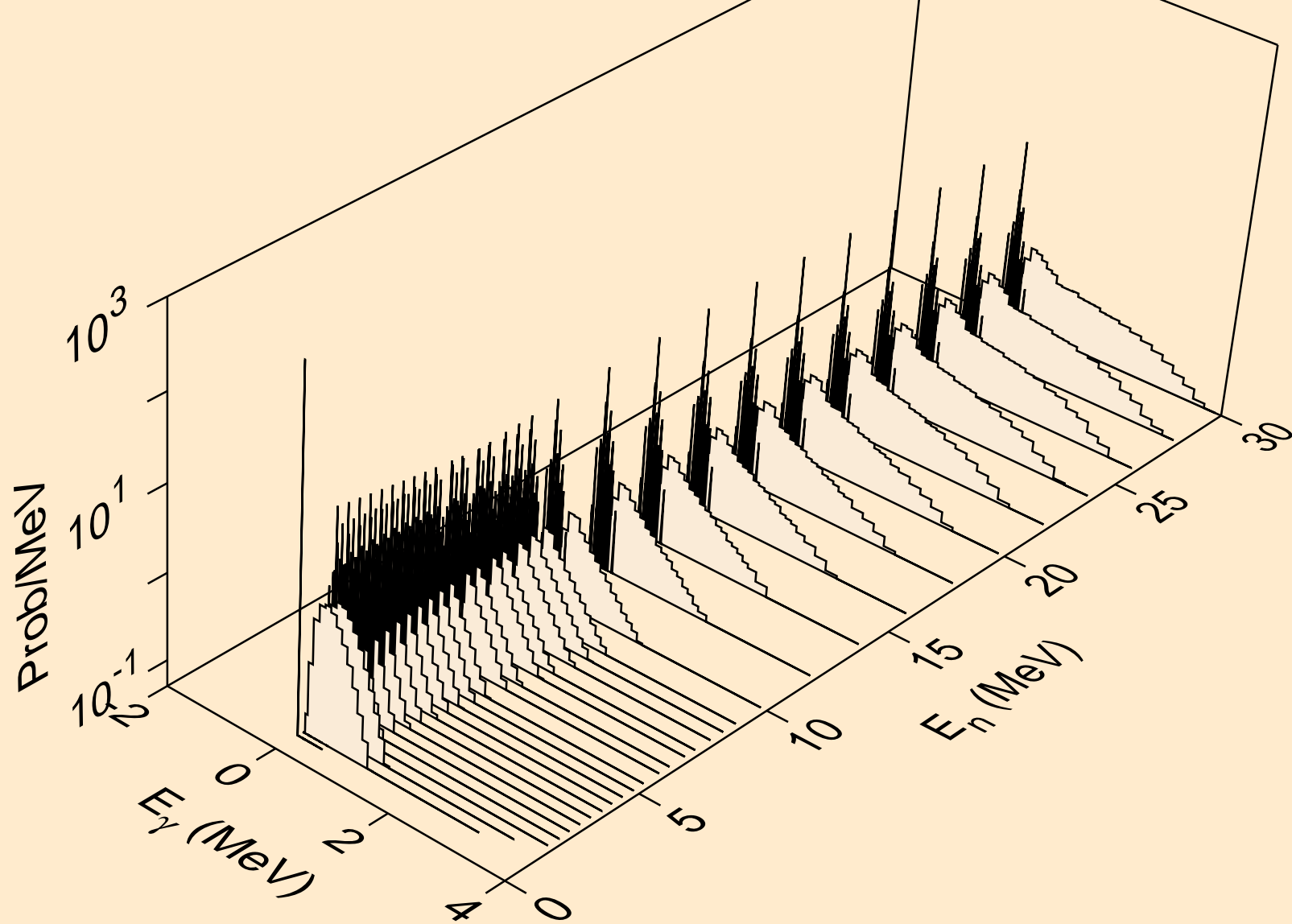
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Photon emission for (n,2a)



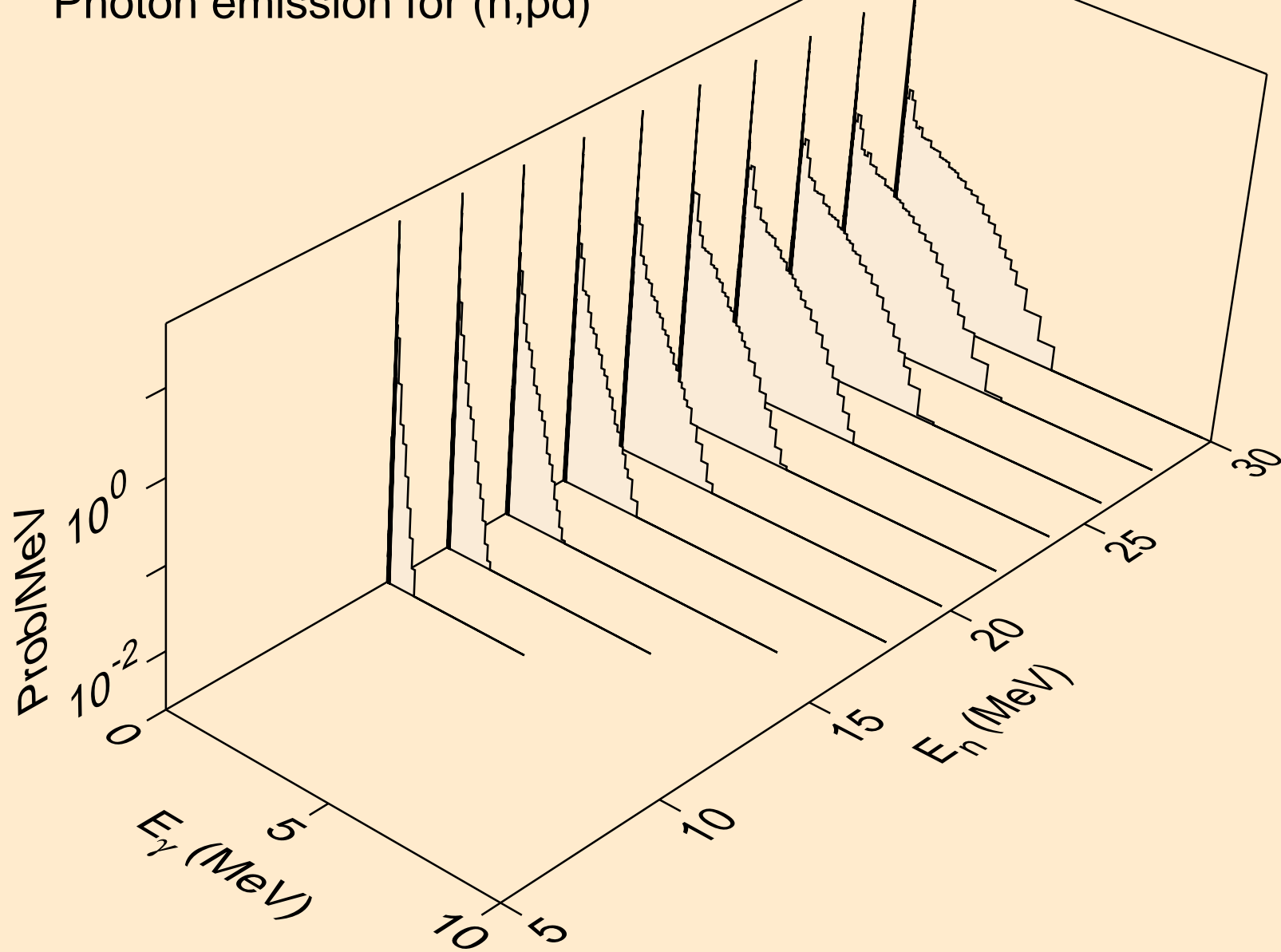
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Photon emission for (n,2p)



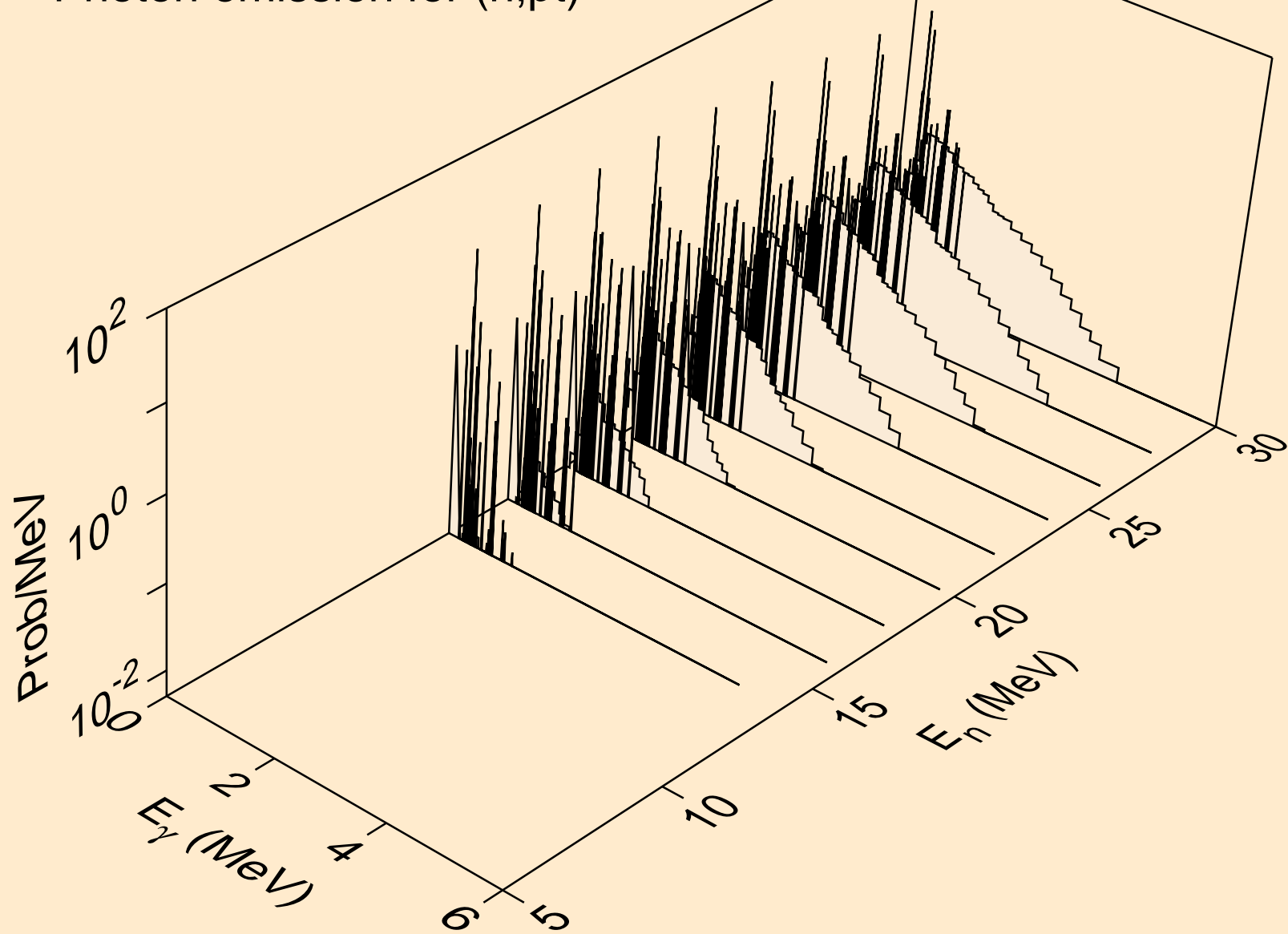
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Photon emission for (n,p $\alpha$ )



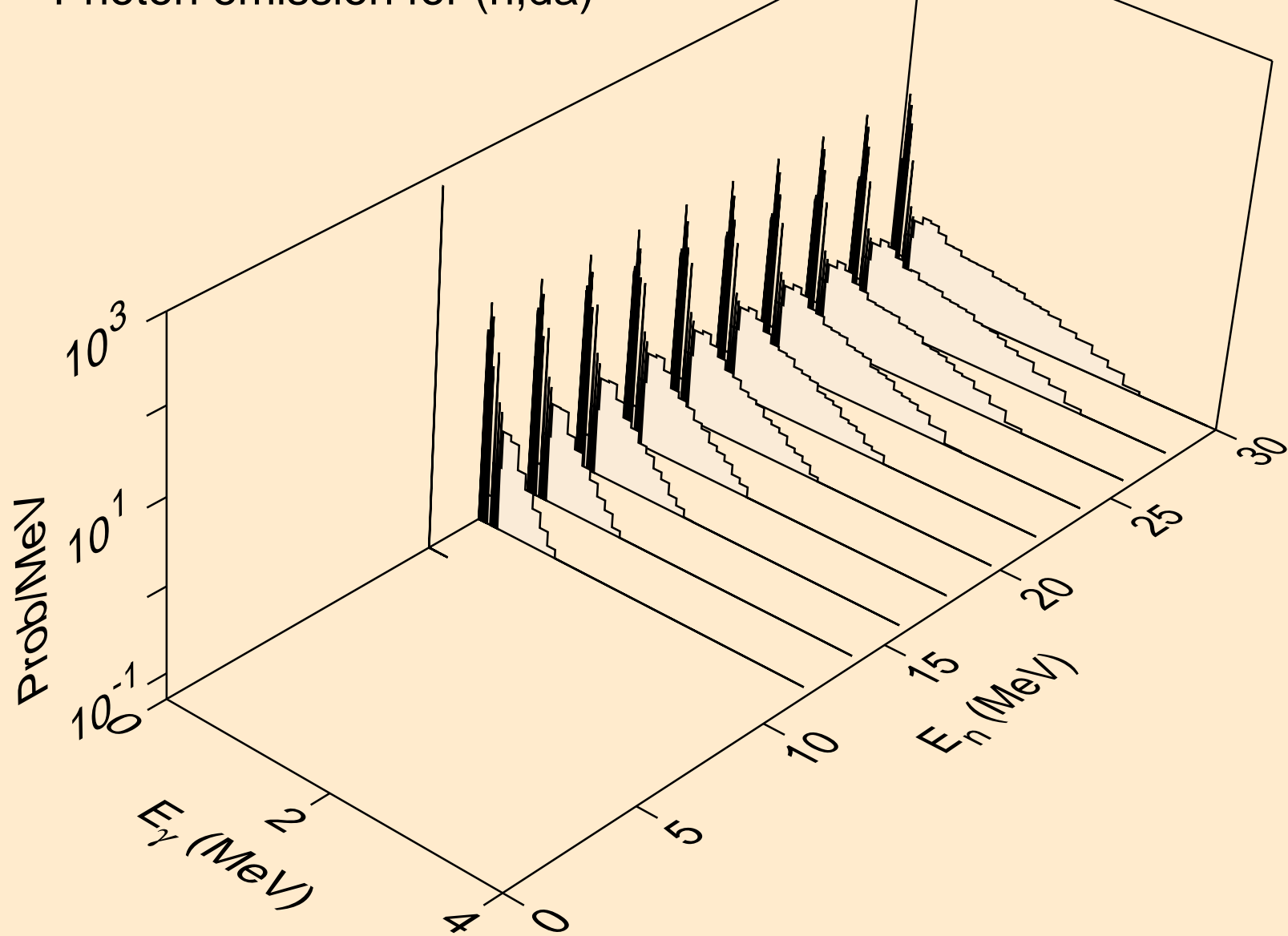
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Photon emission for (n,pd)



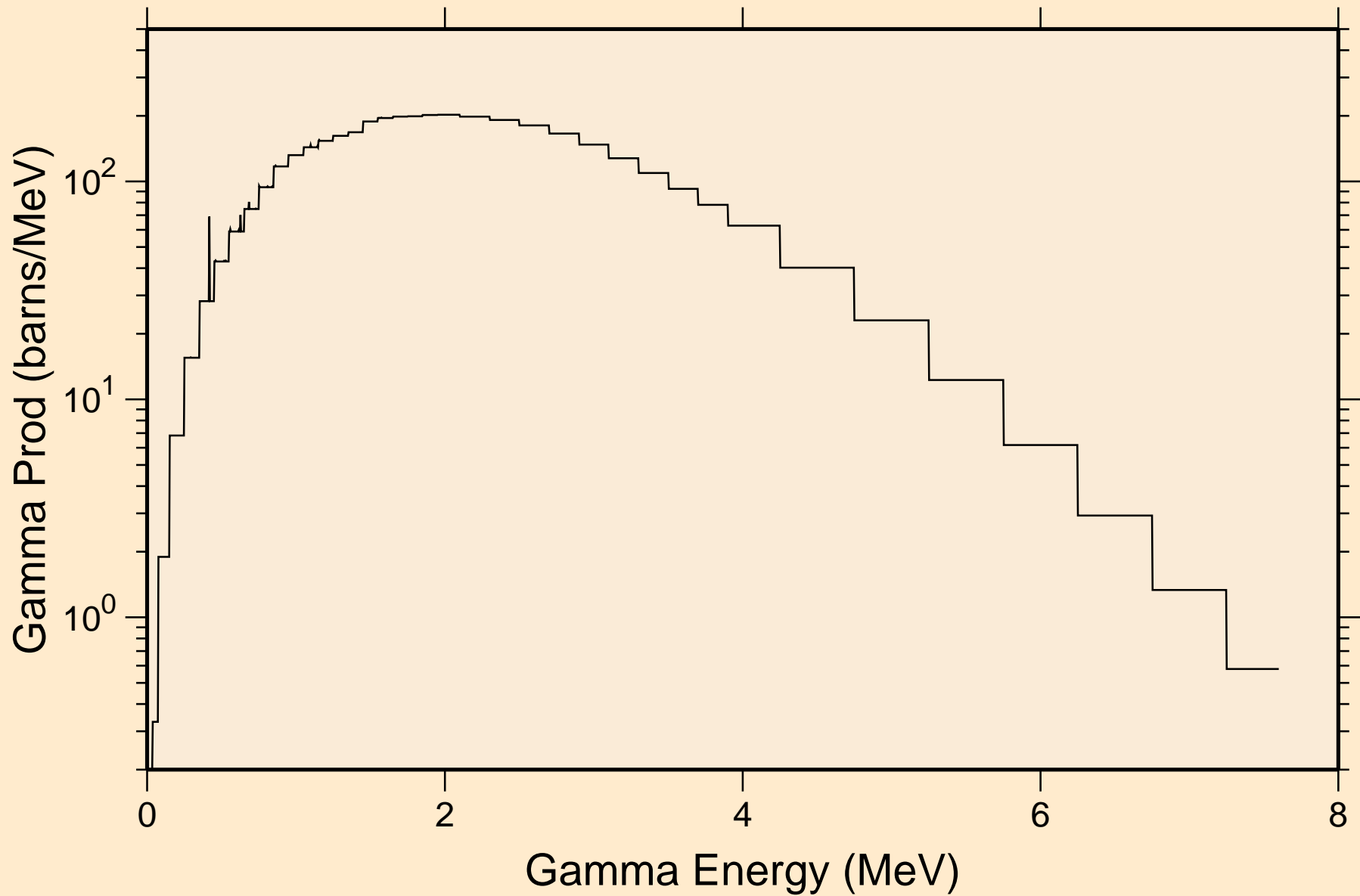
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Photon emission for (n,pt)



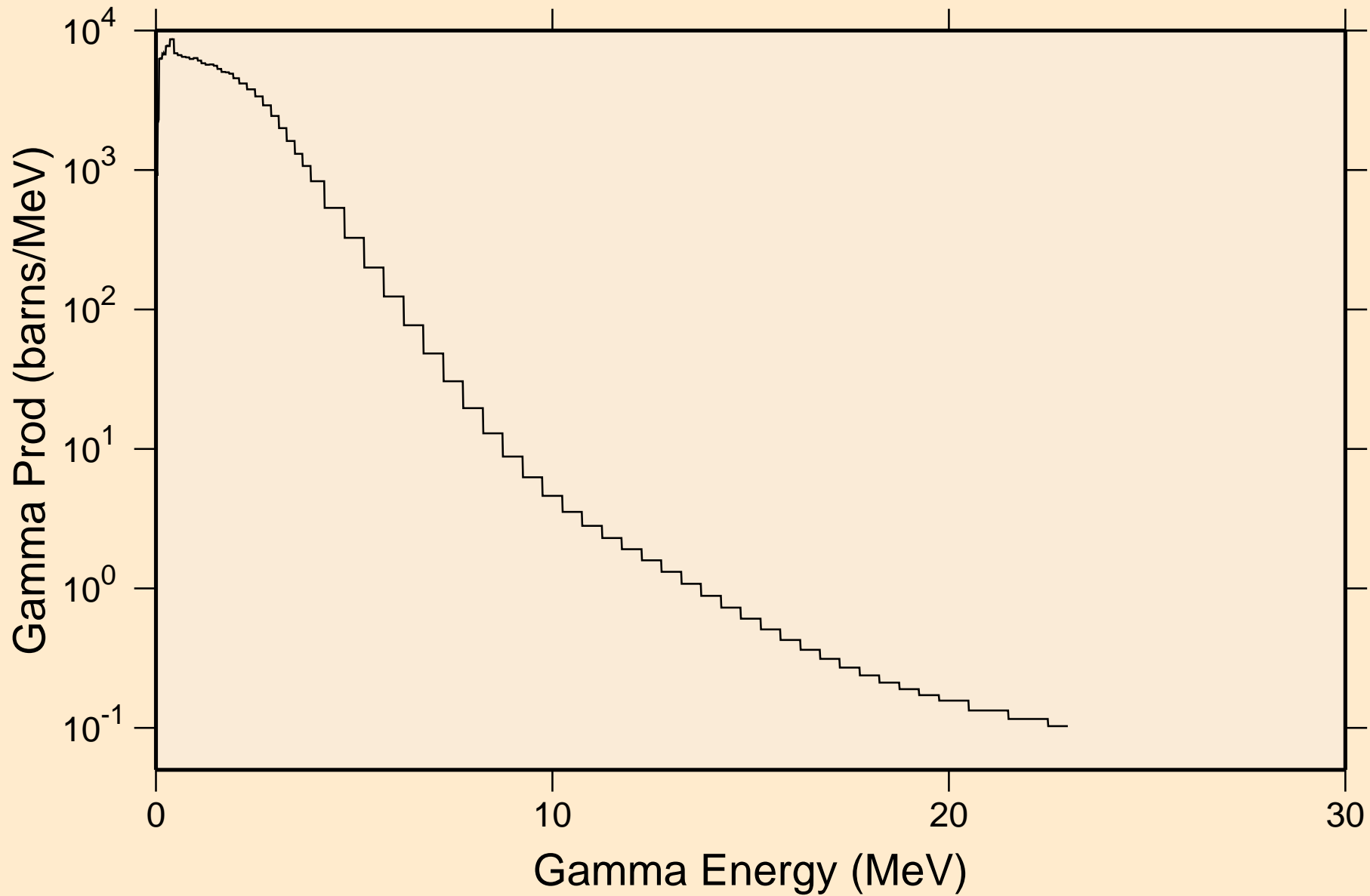
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Photon emission for (n,da)



HG189 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
thermal capture photon spectrum



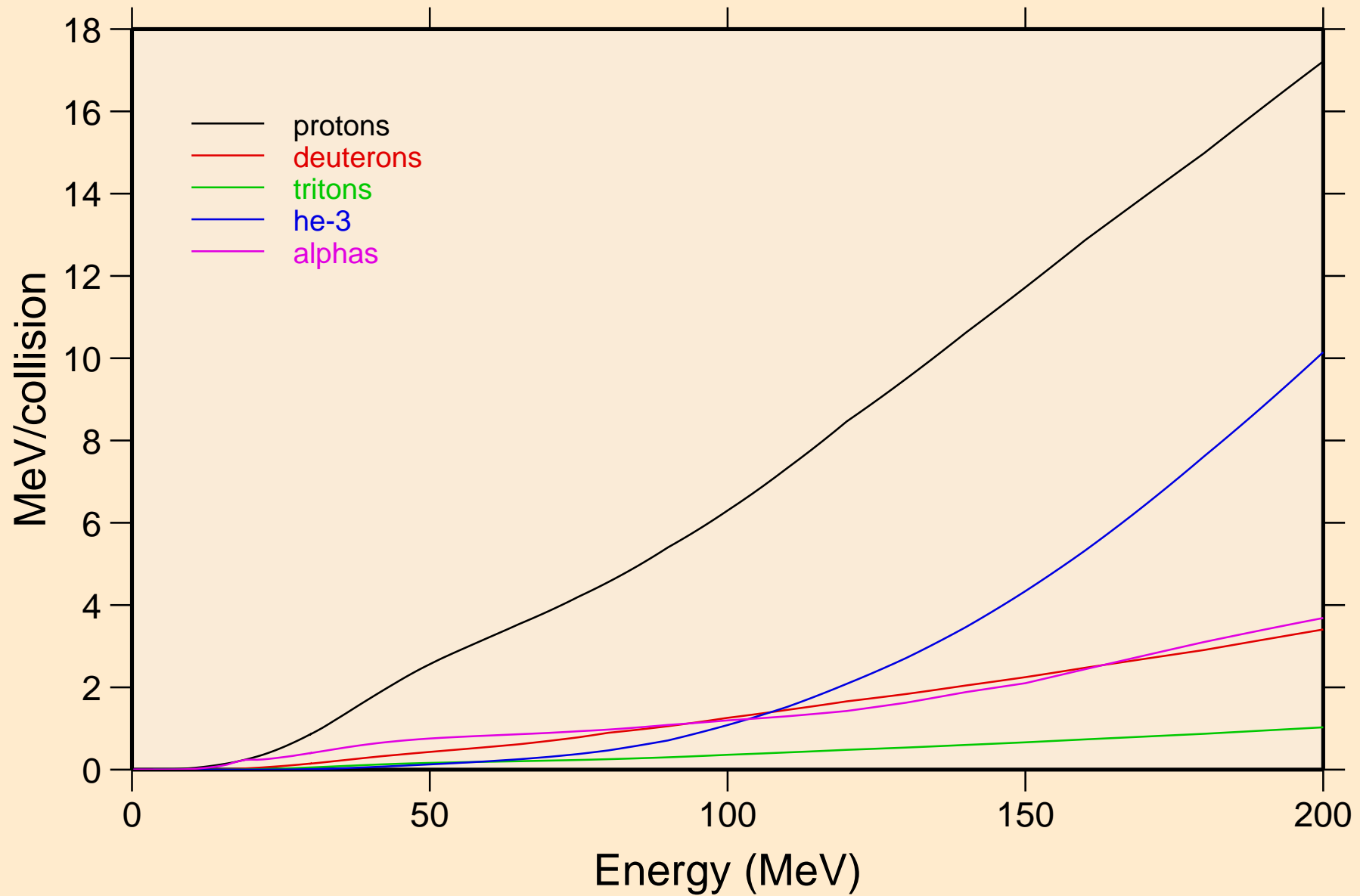
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14 MeV photon spectrum





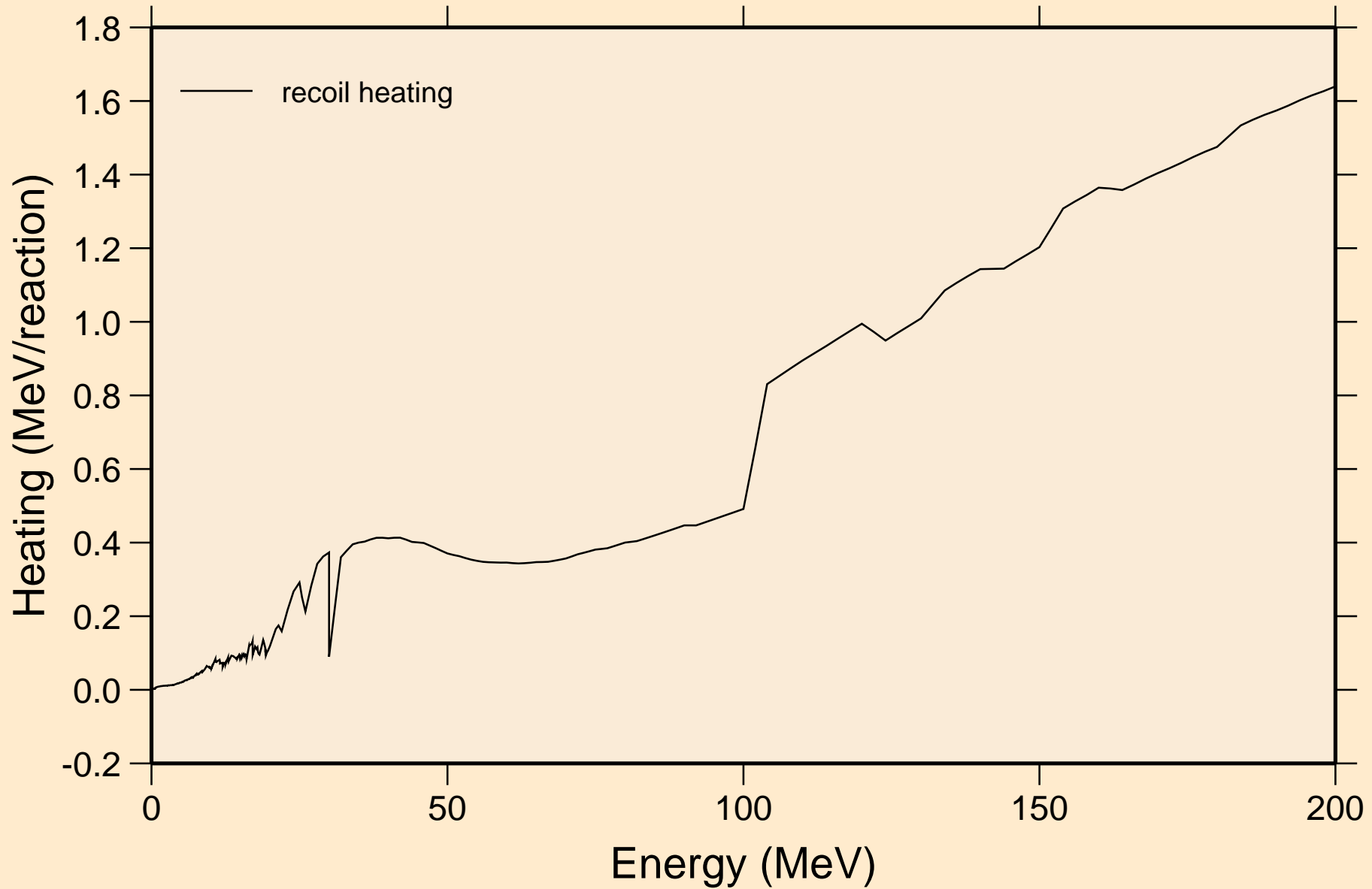
# HG189 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

## Particle heating contributions

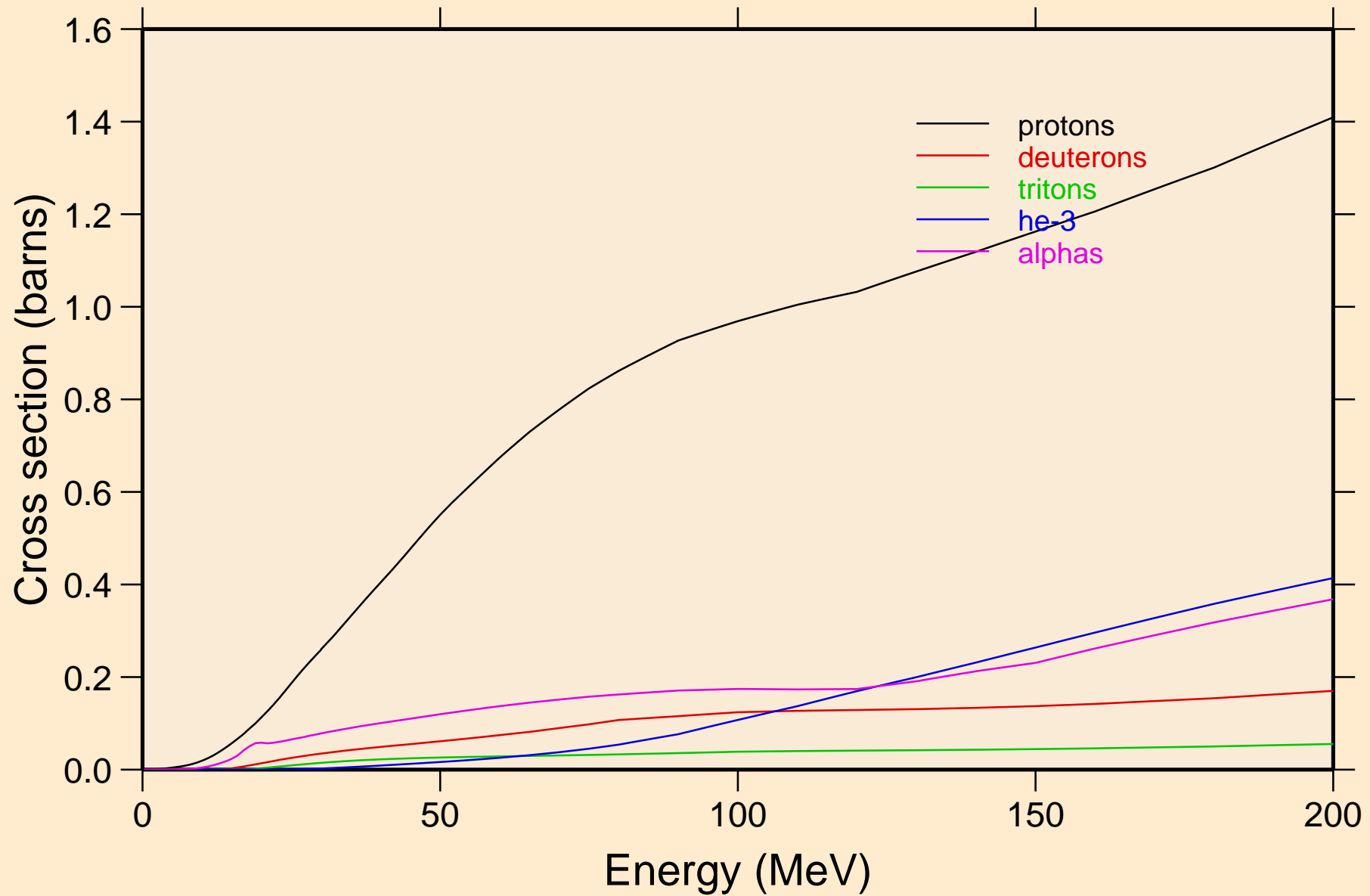


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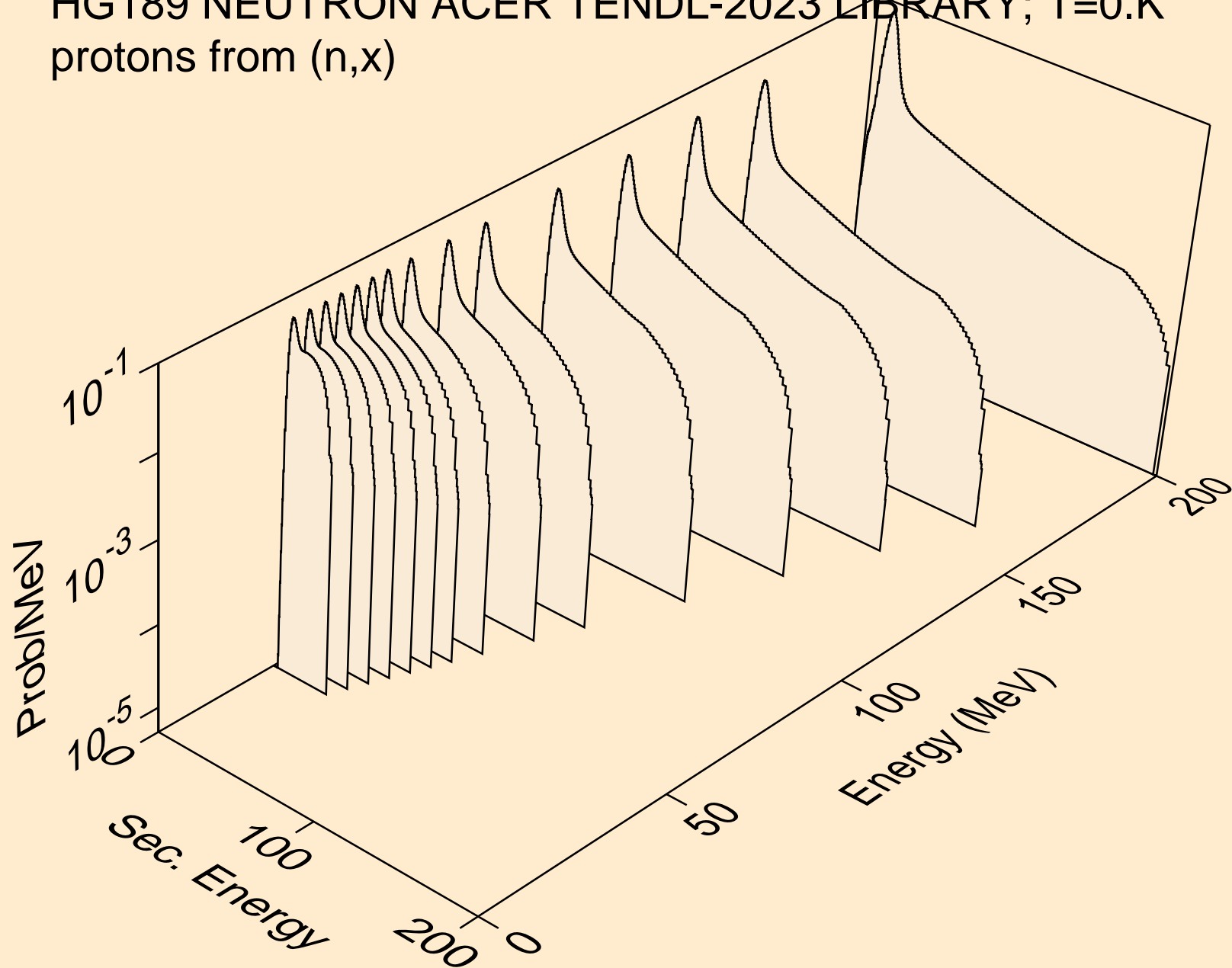
## Recoil Heating



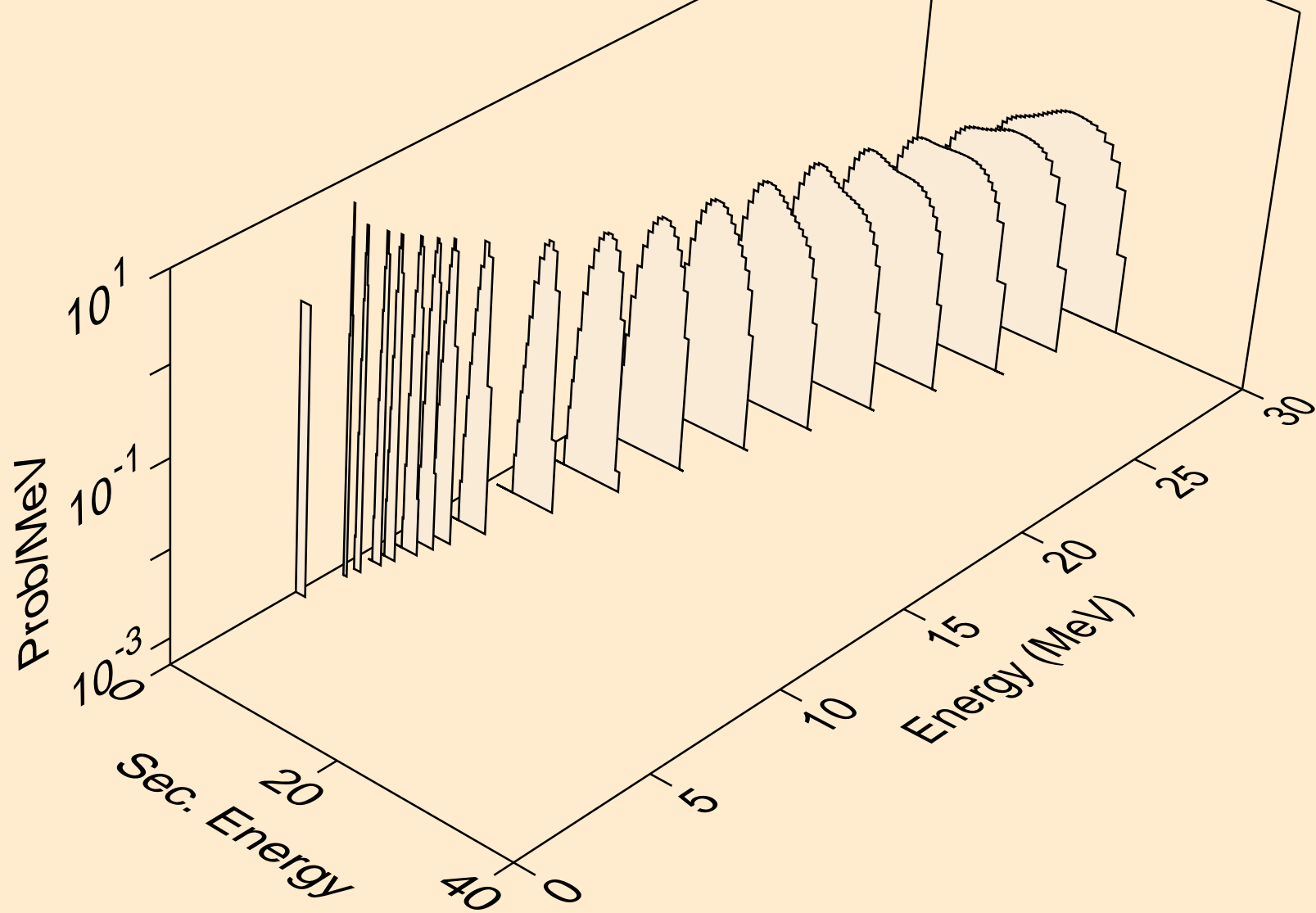
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Particle production cross sections



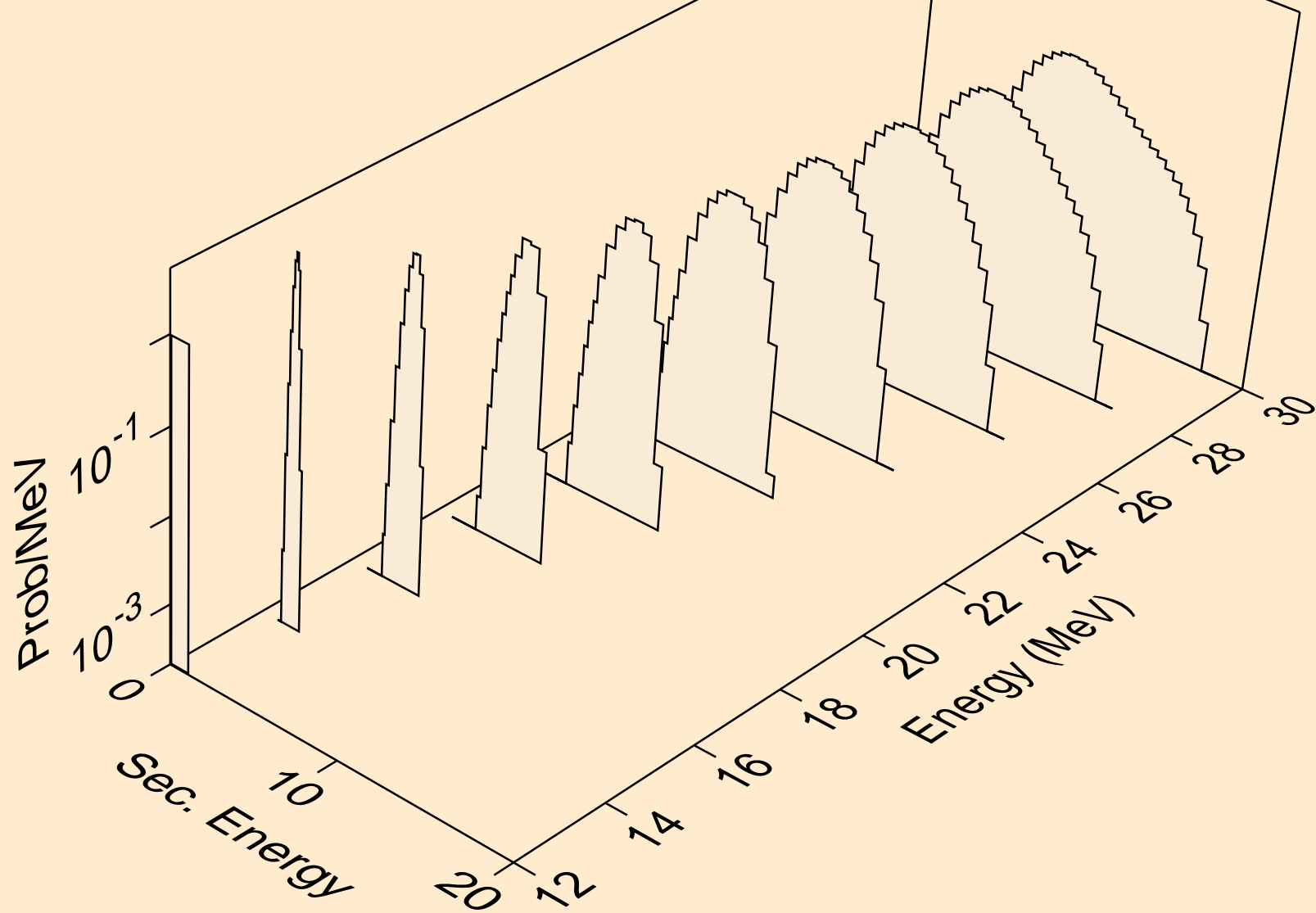
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protons from (n,x)



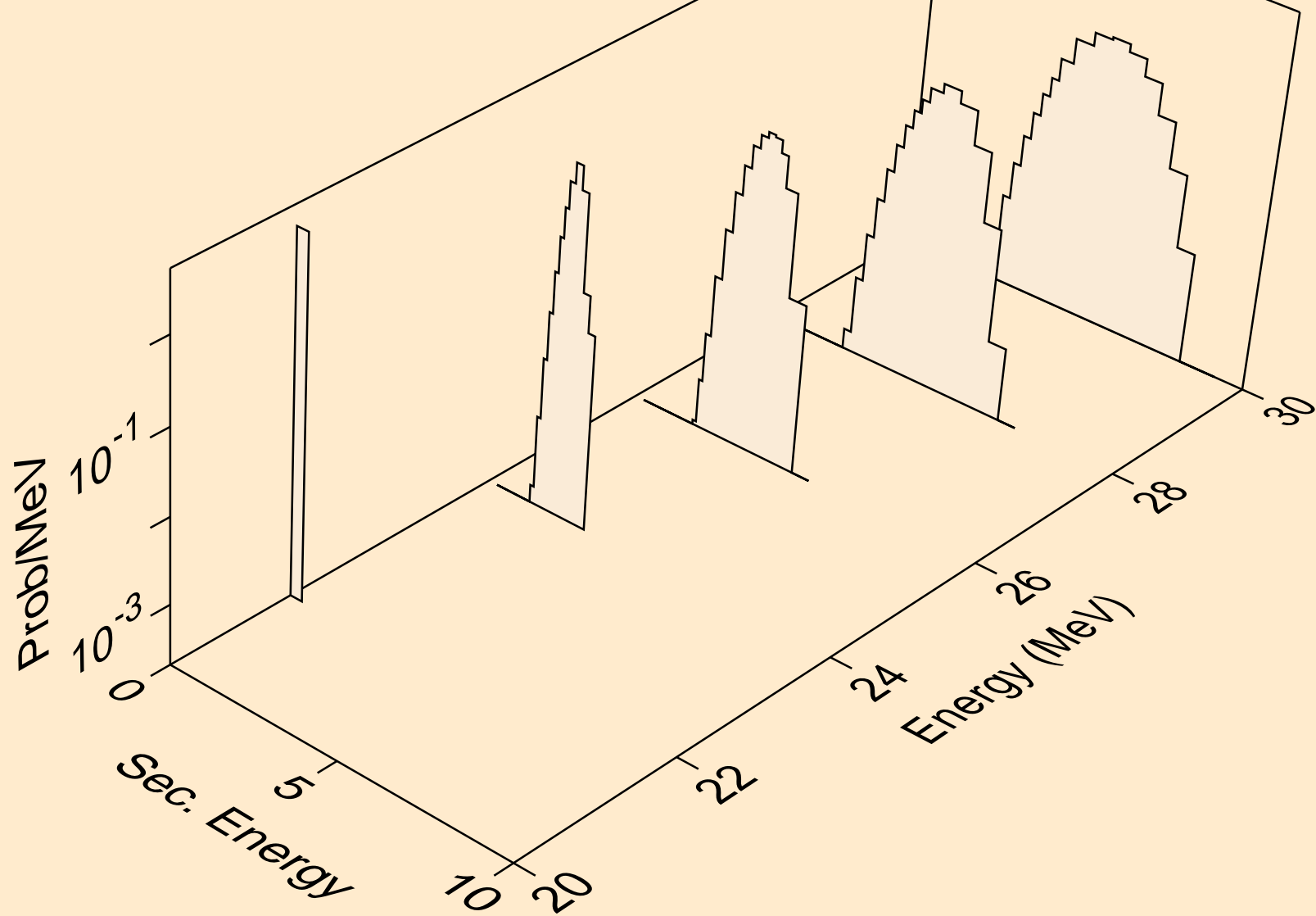
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protons from (n,n\*)p



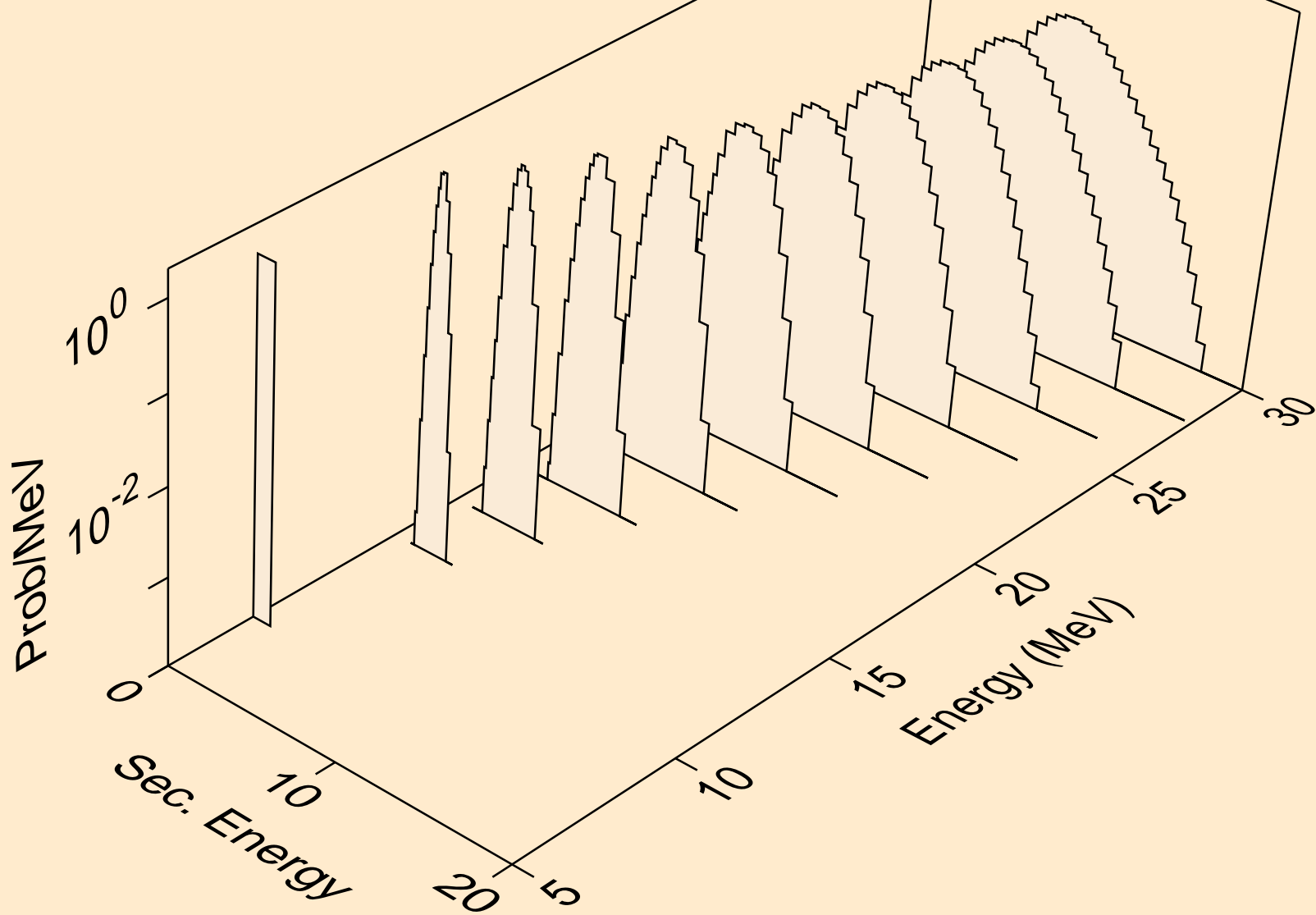
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protons from (n,2np)



HG189 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
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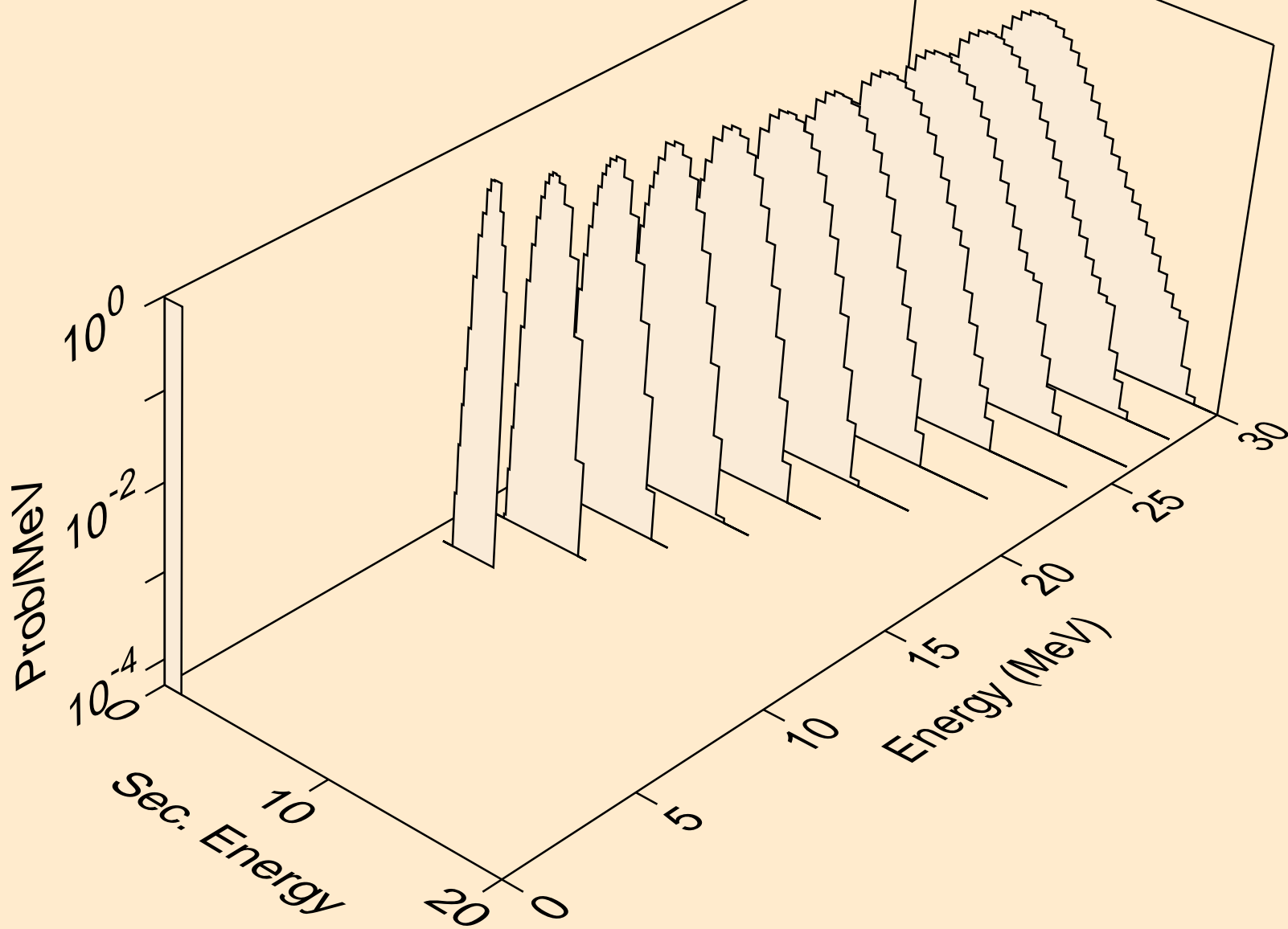


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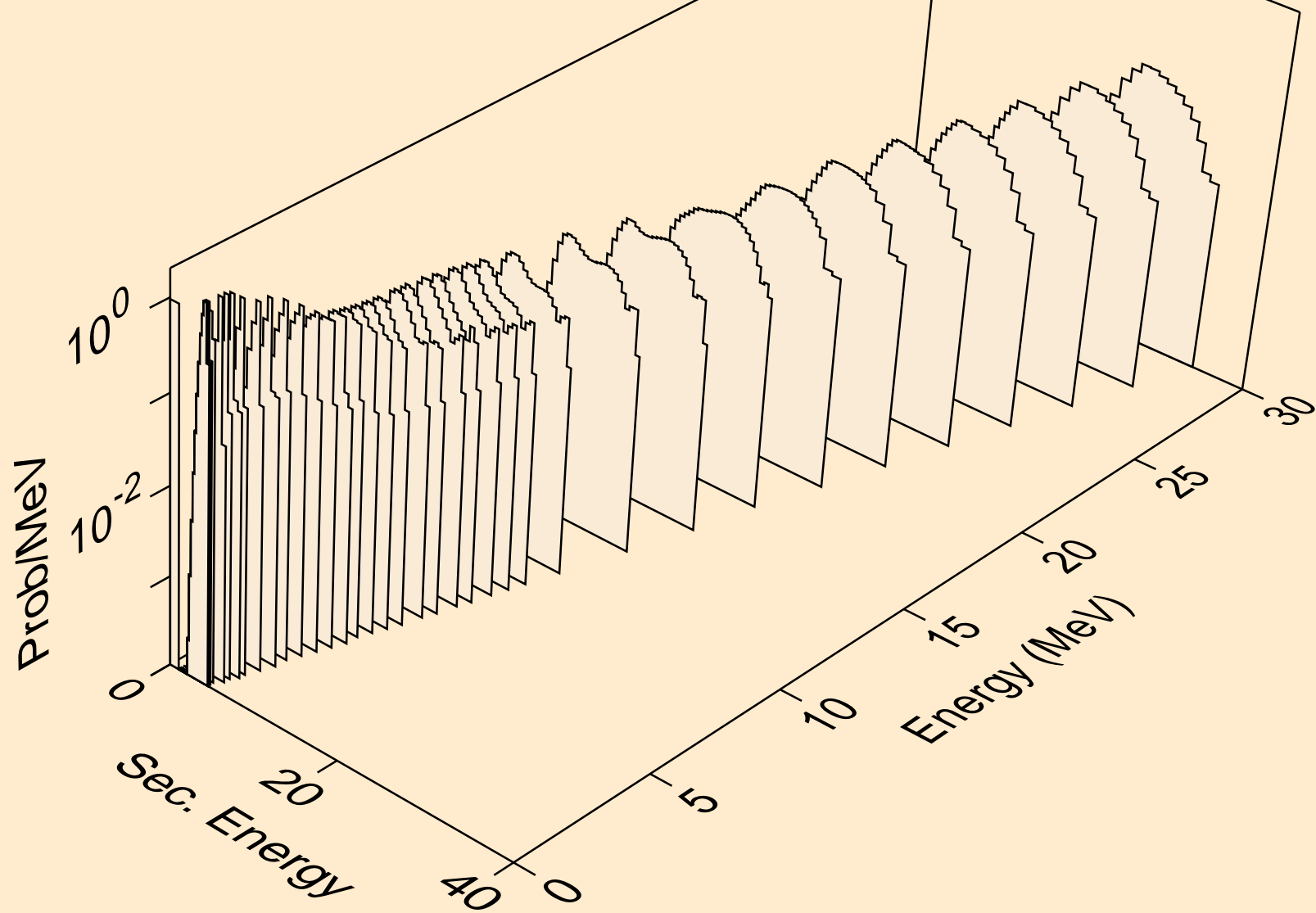




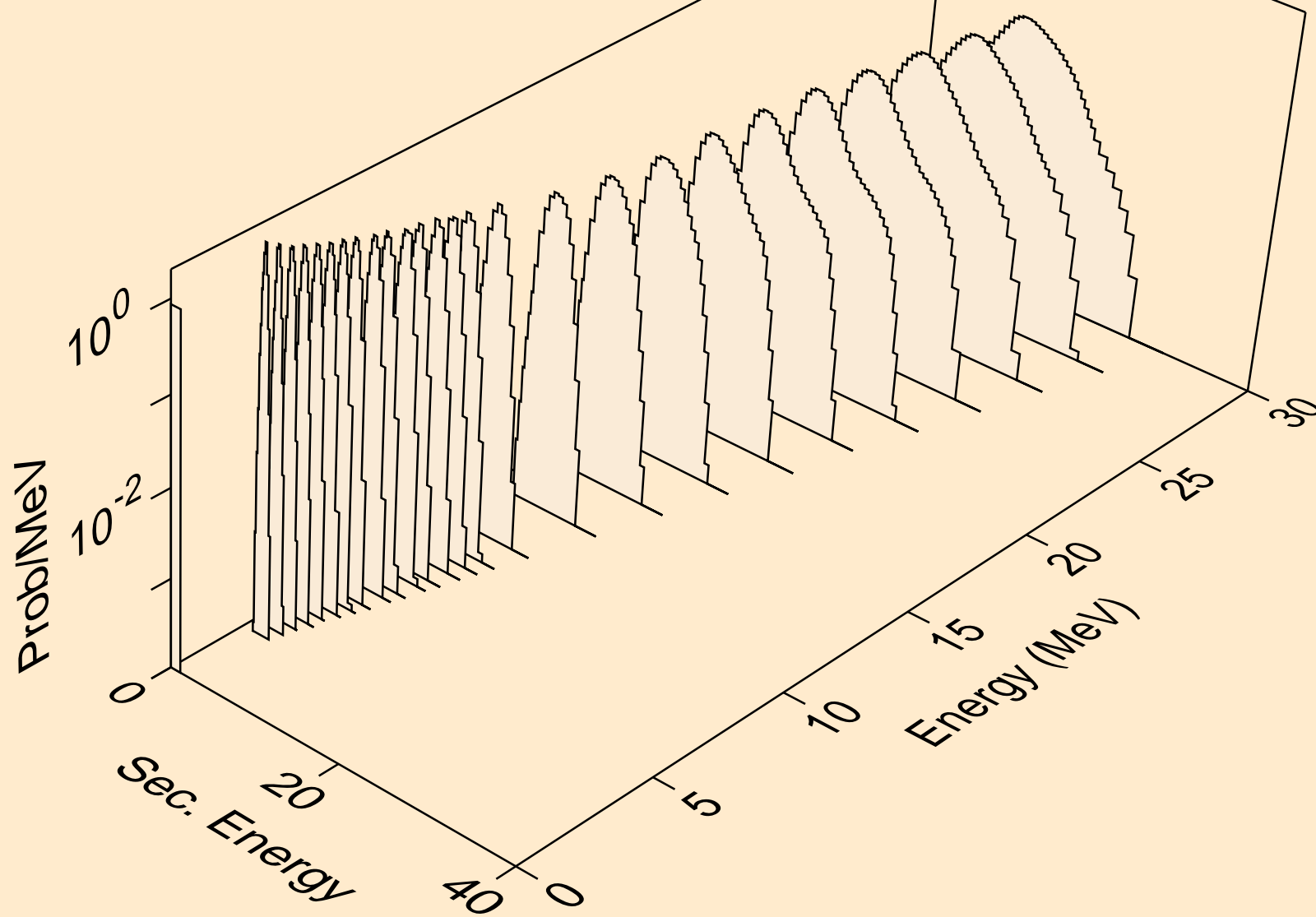
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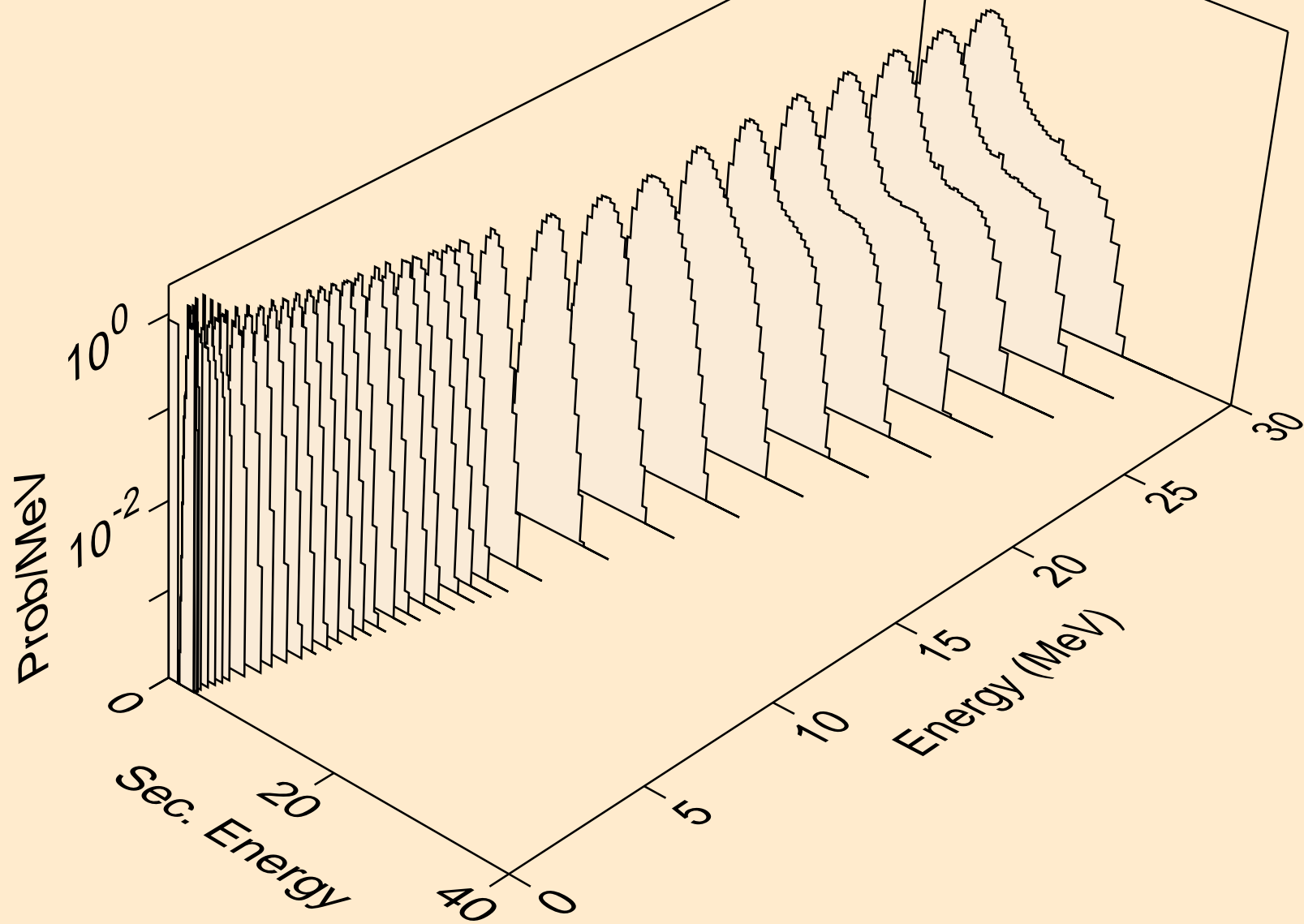
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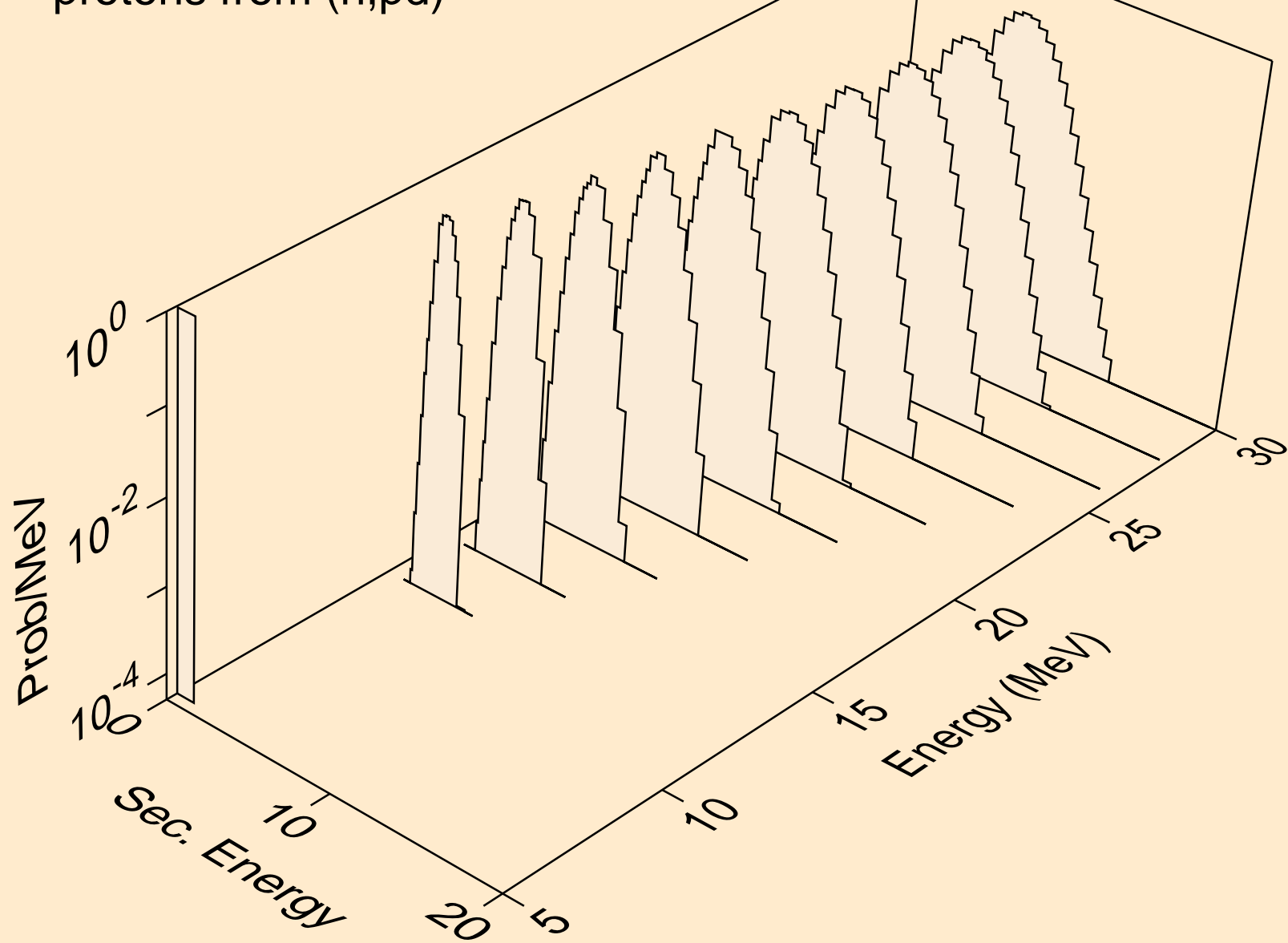
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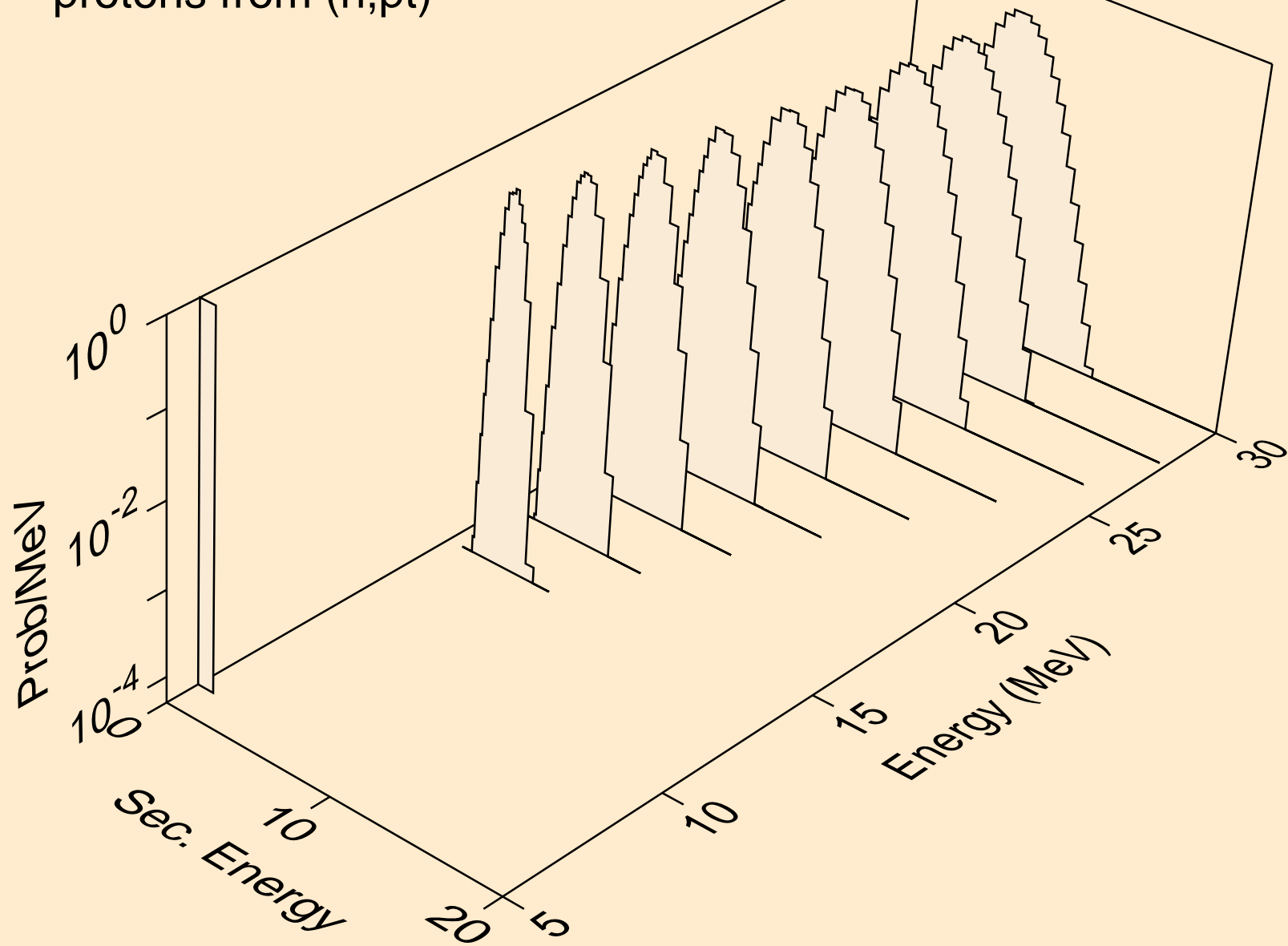
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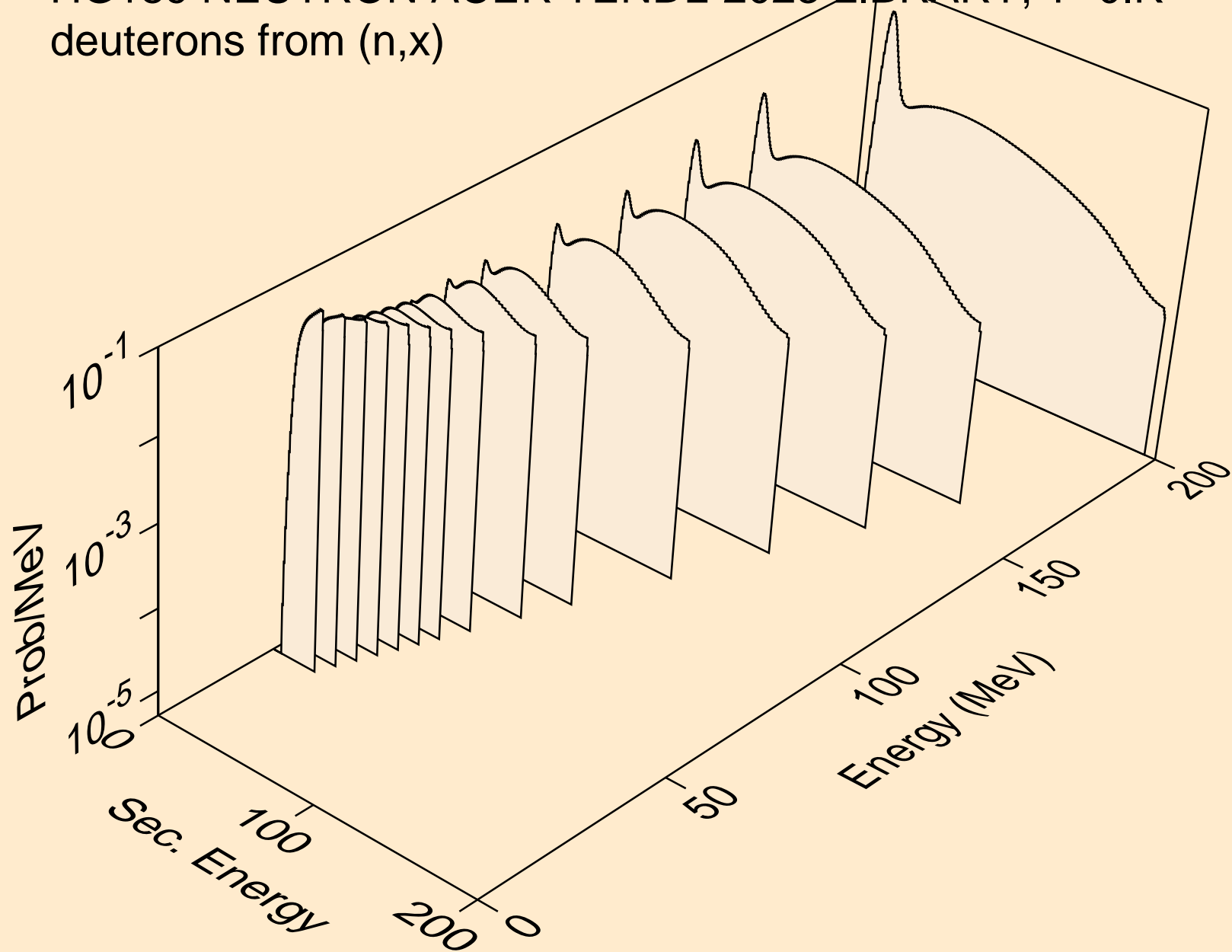
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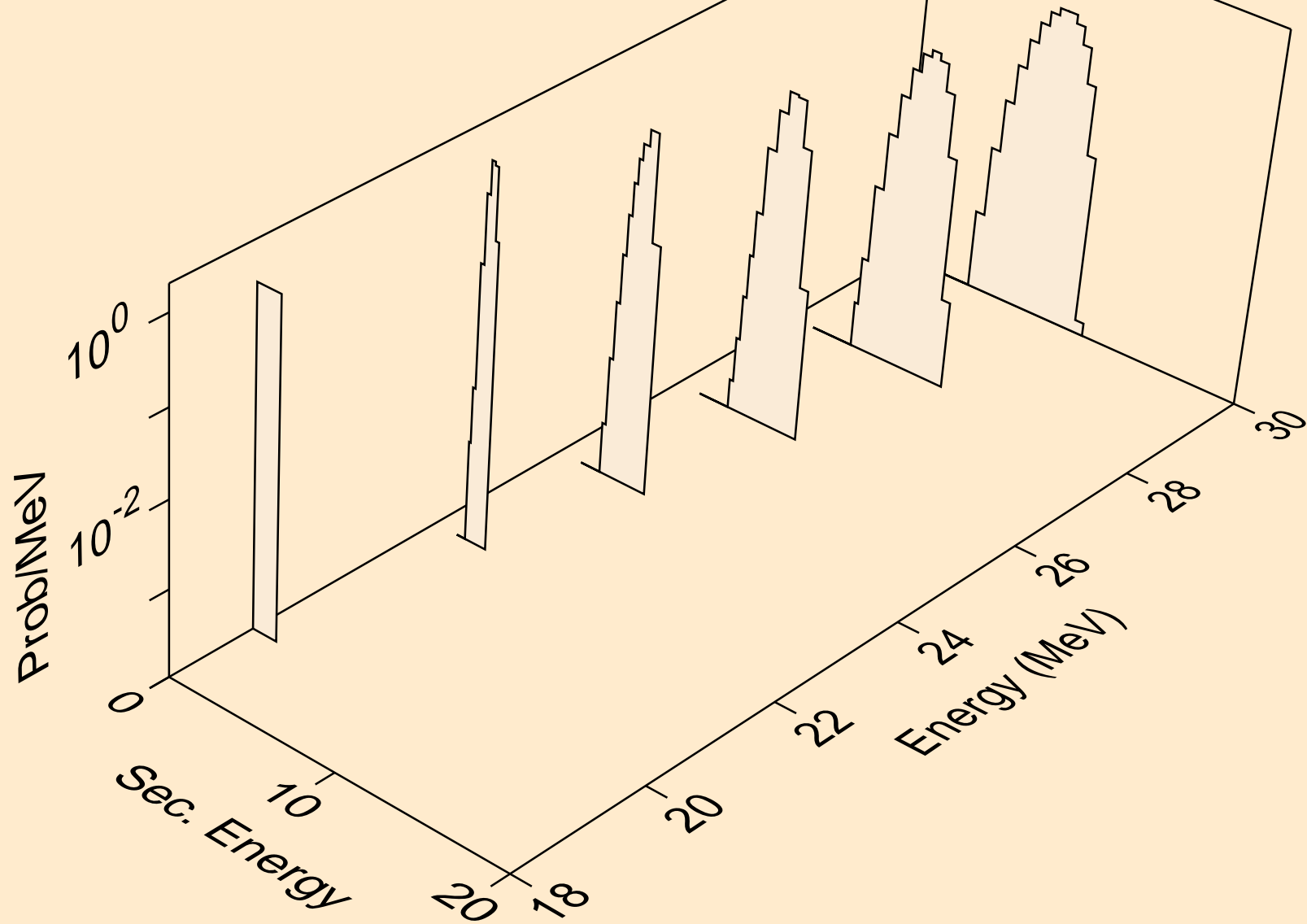
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protons from (n,pt)



HG189 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
deuterons from (n,x)

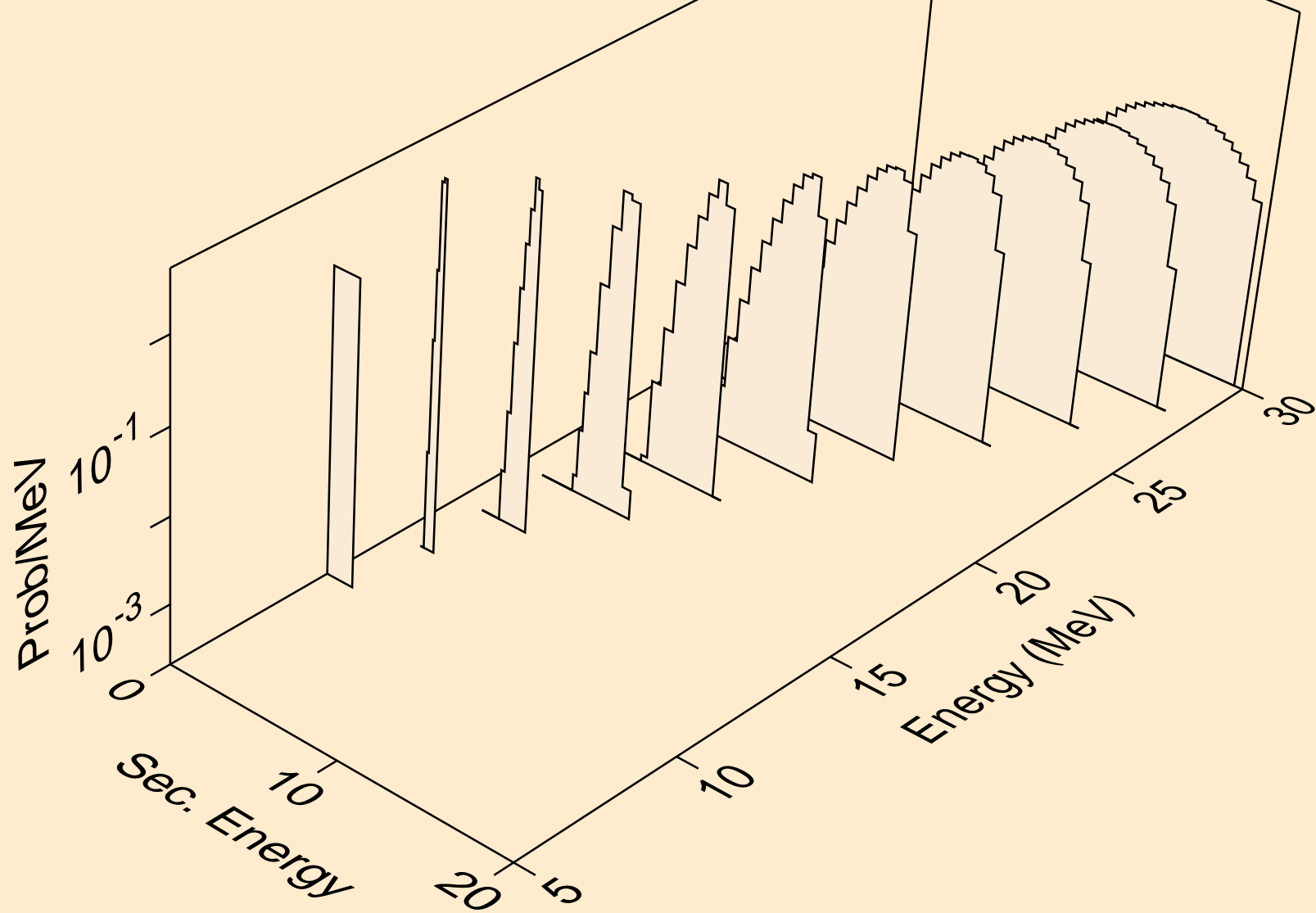


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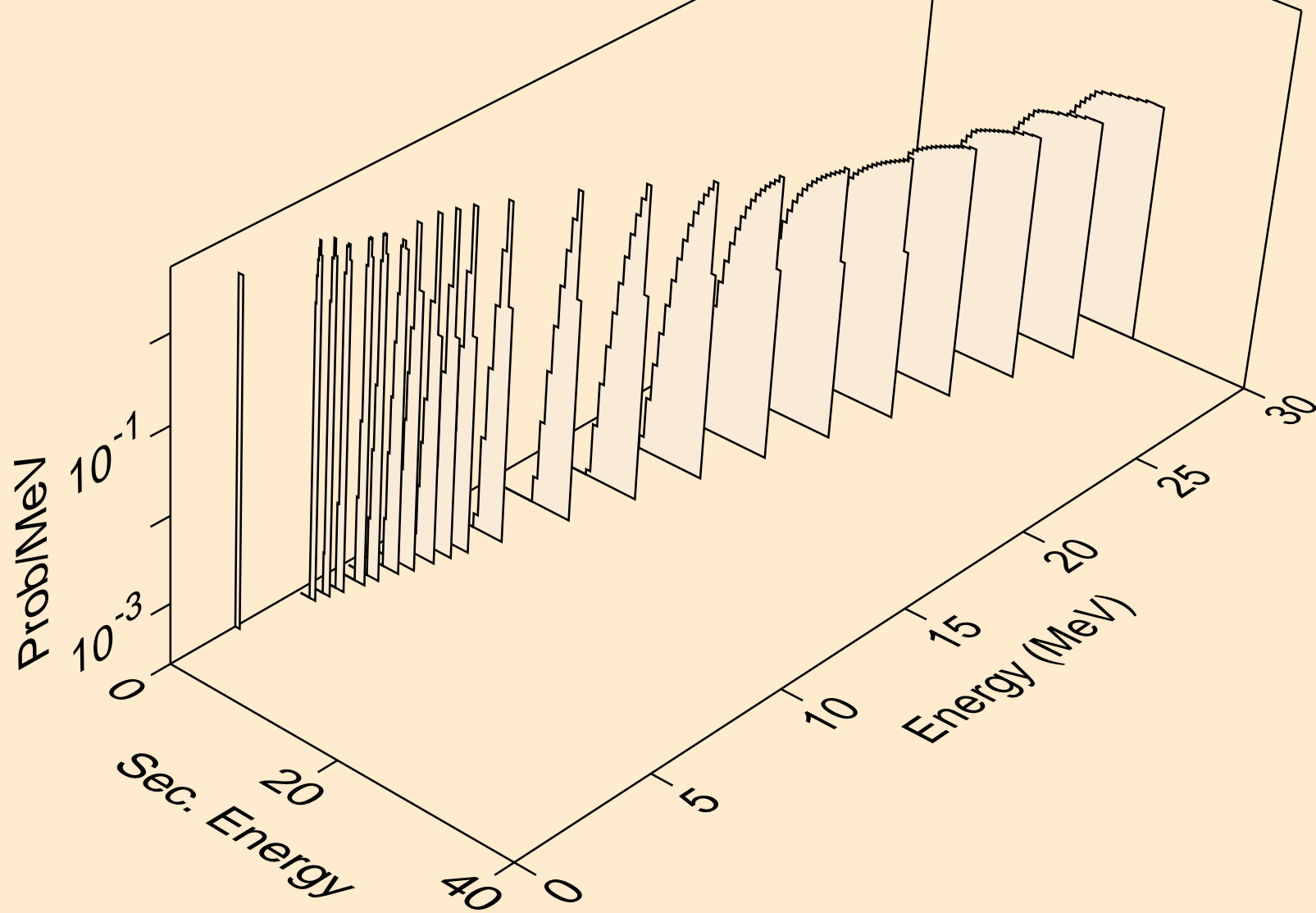




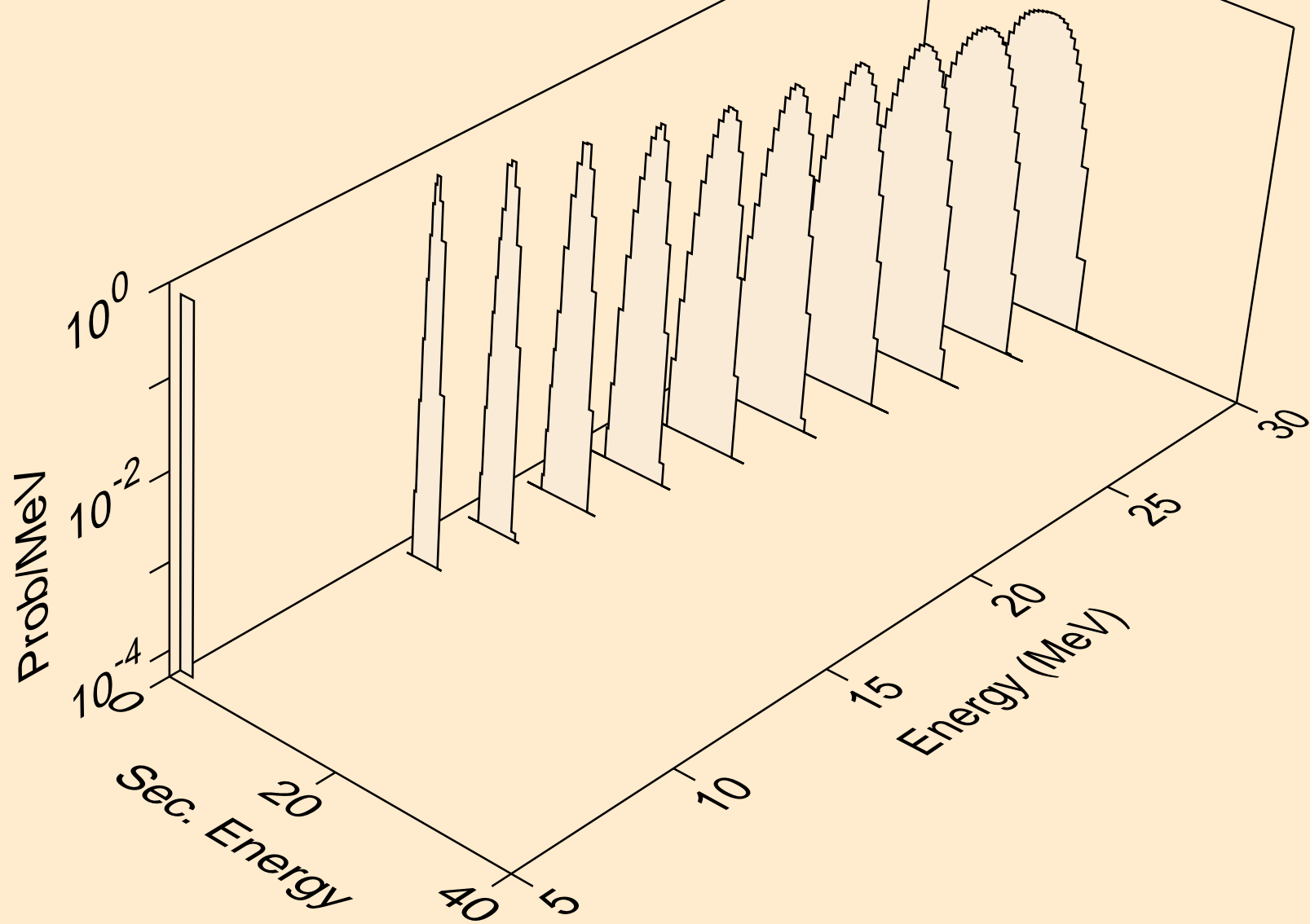
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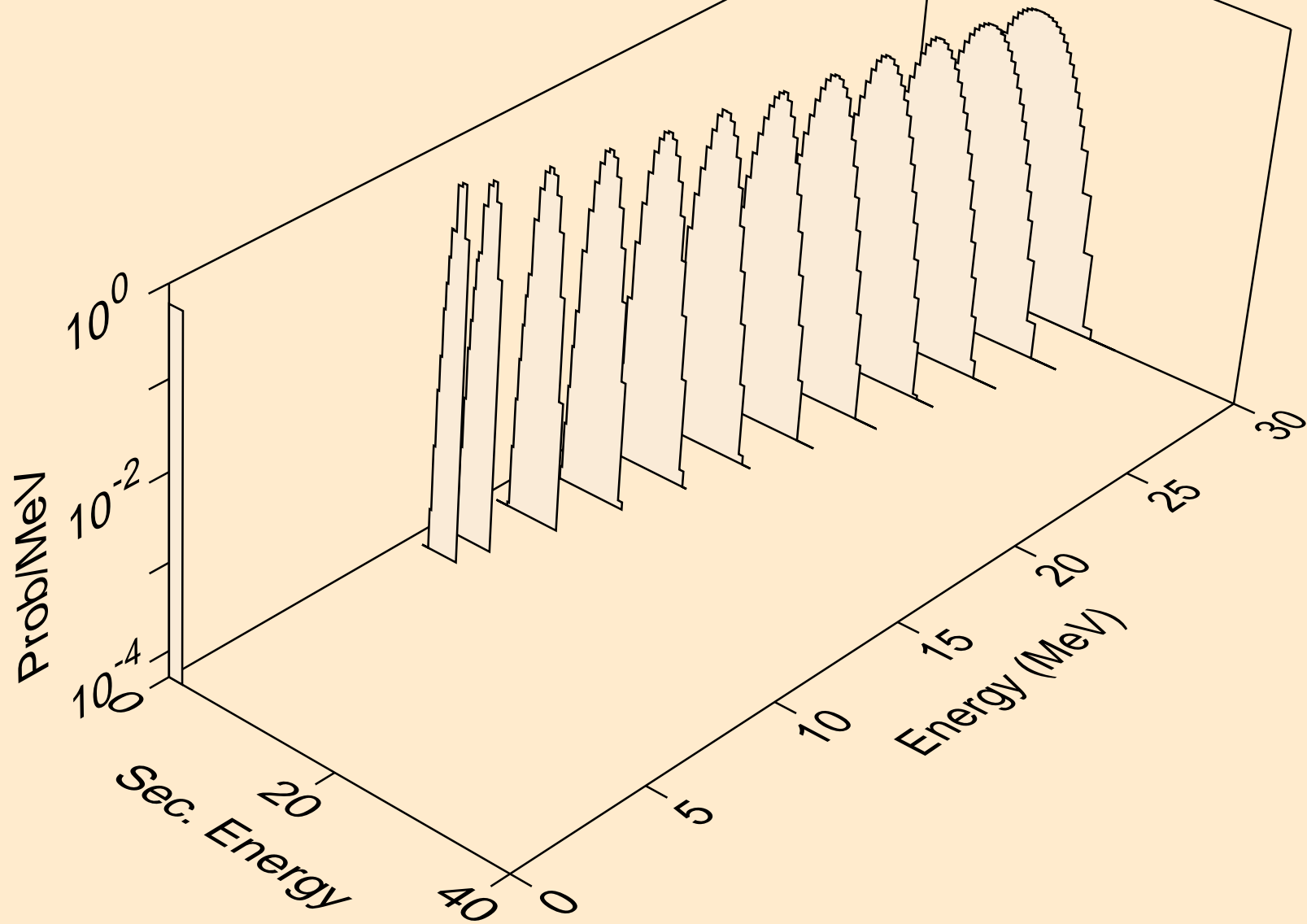
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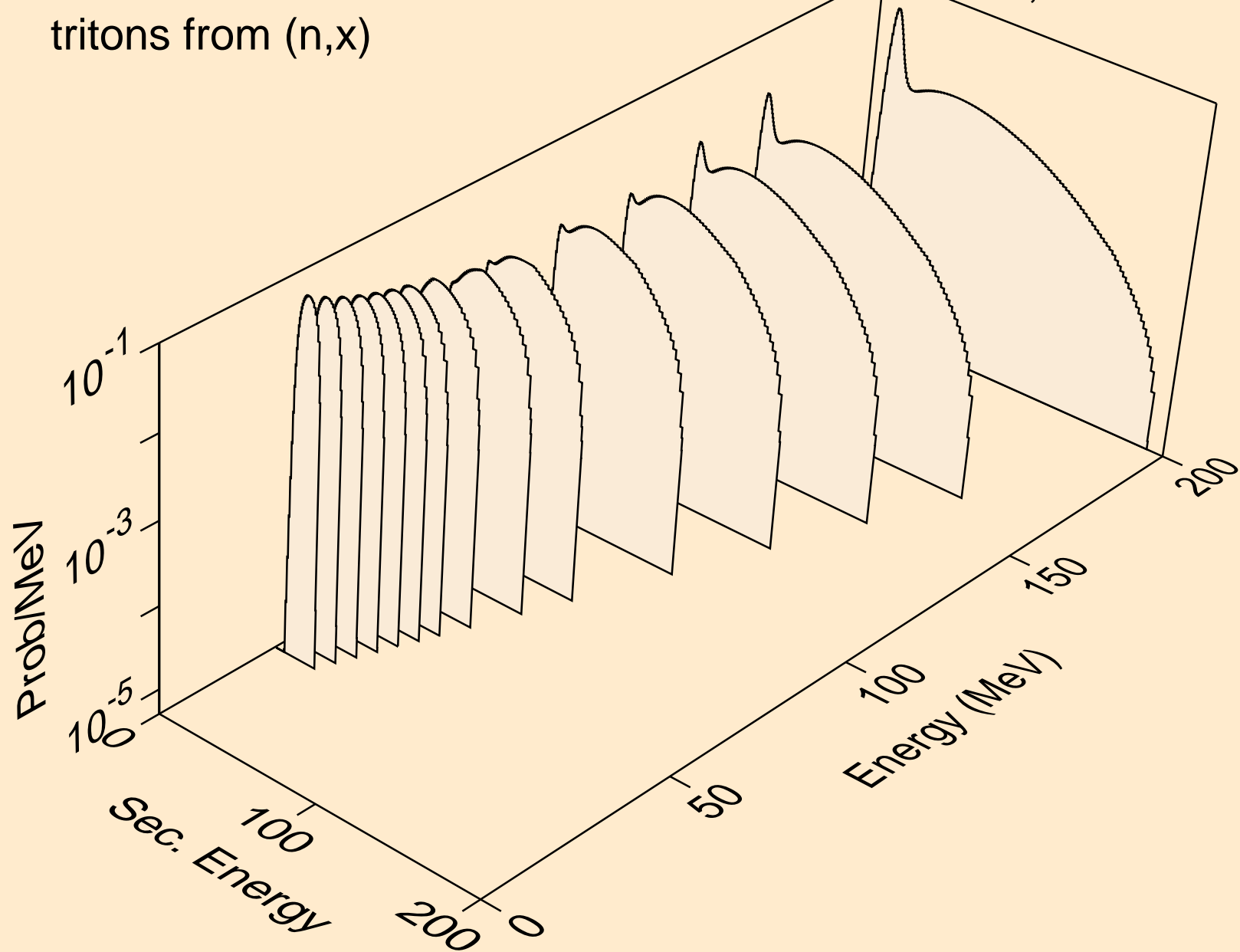
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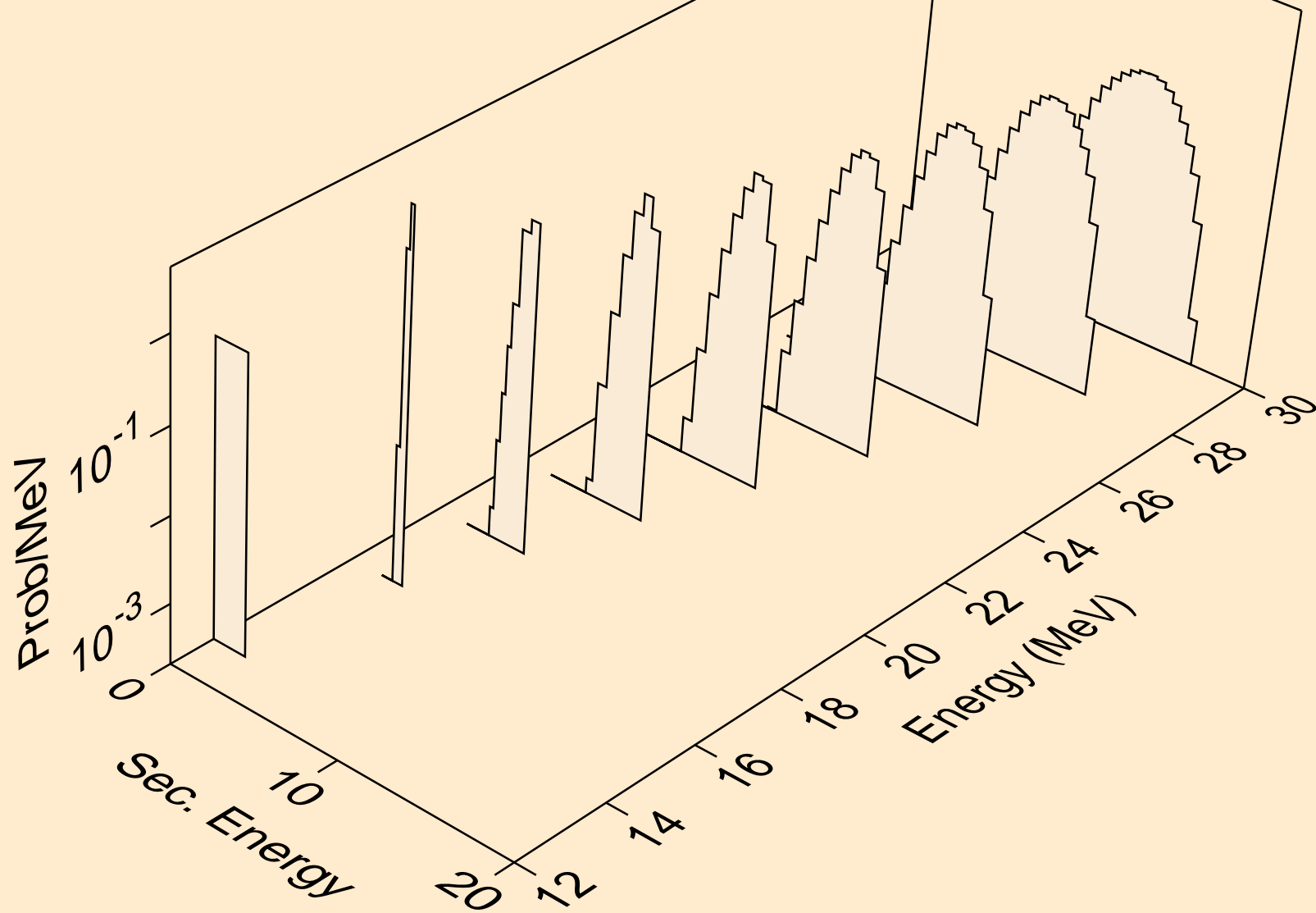
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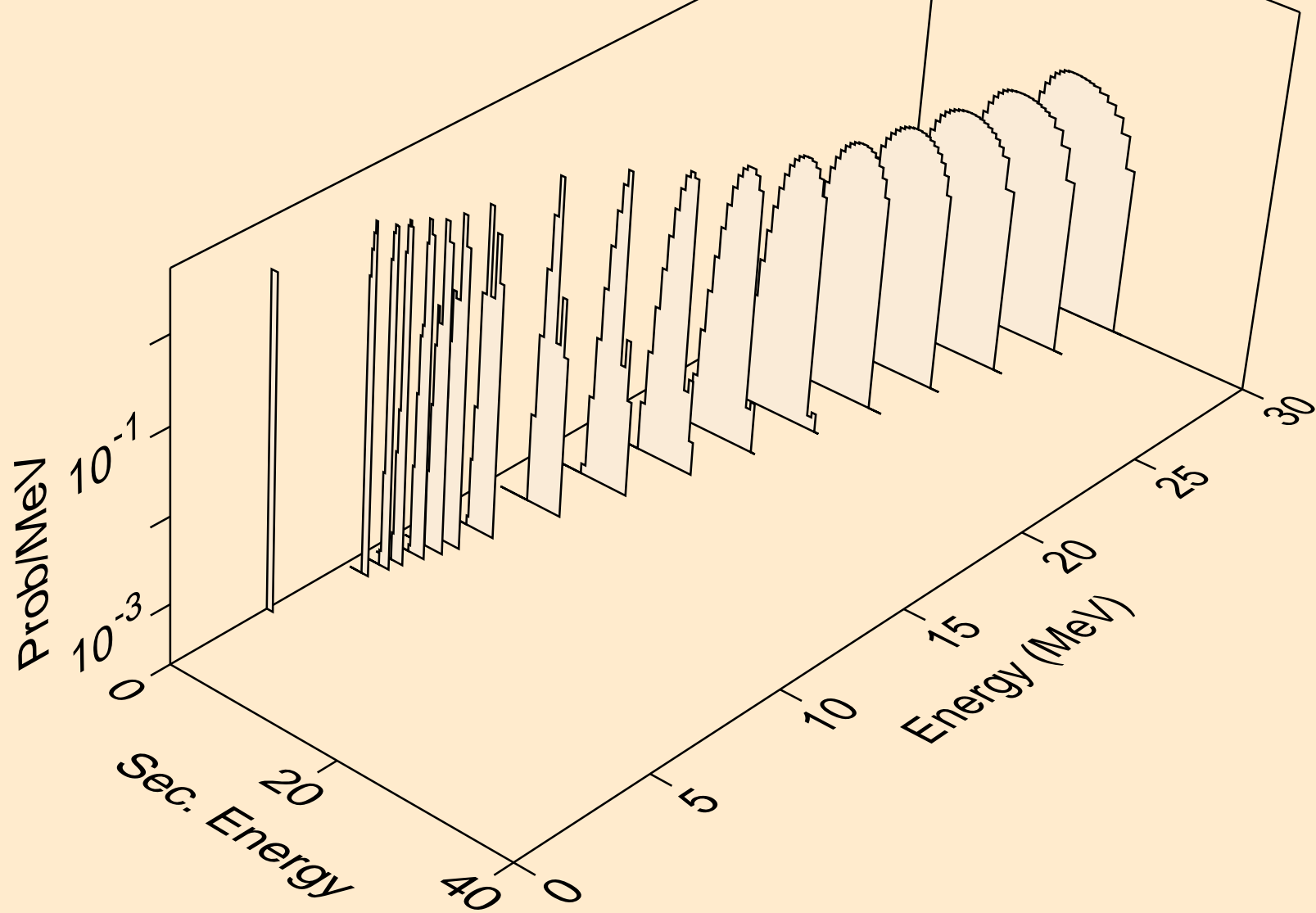
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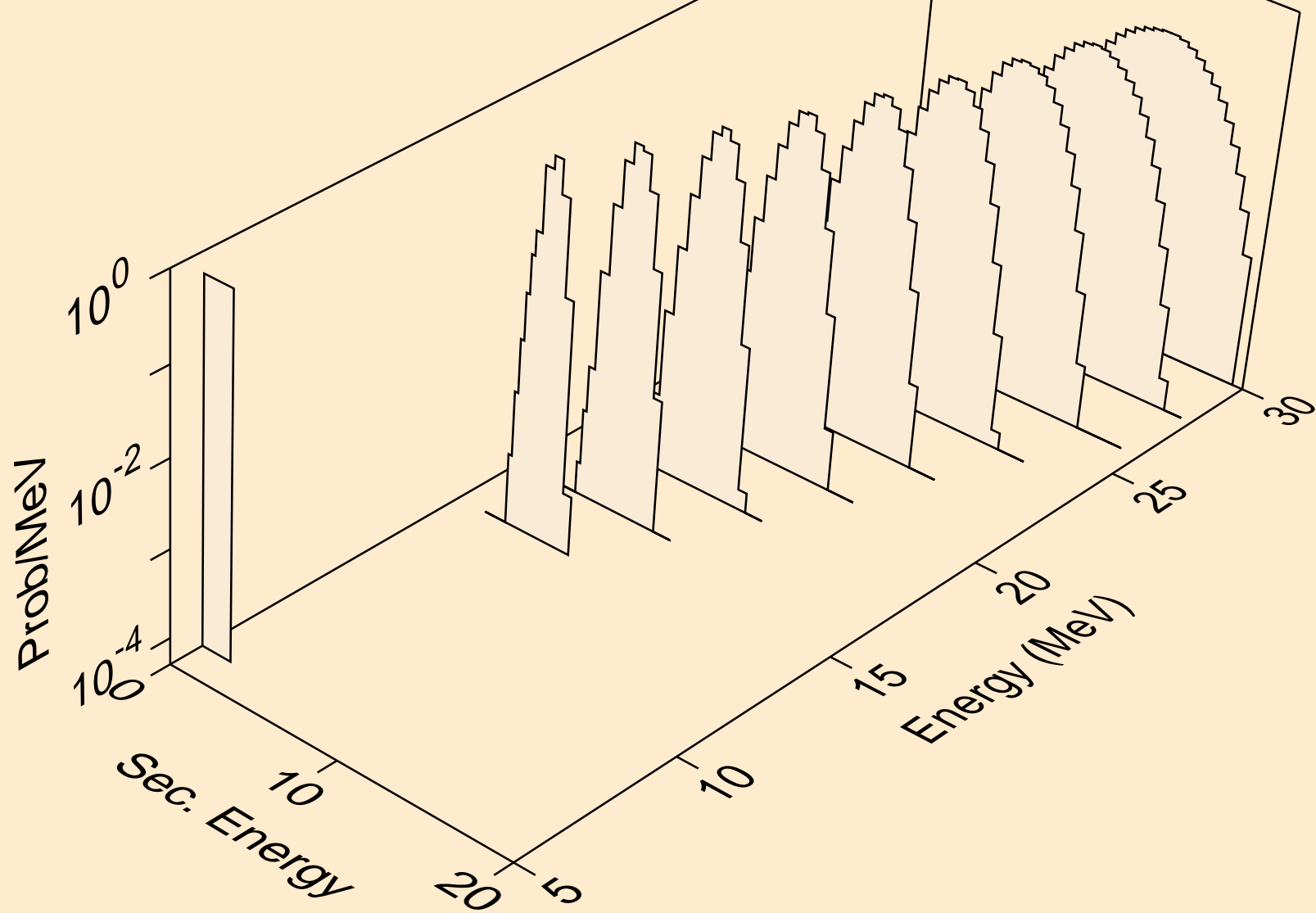
HG189 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
tritons from (n,n\*)t



HG189 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
tritons from (n,t)

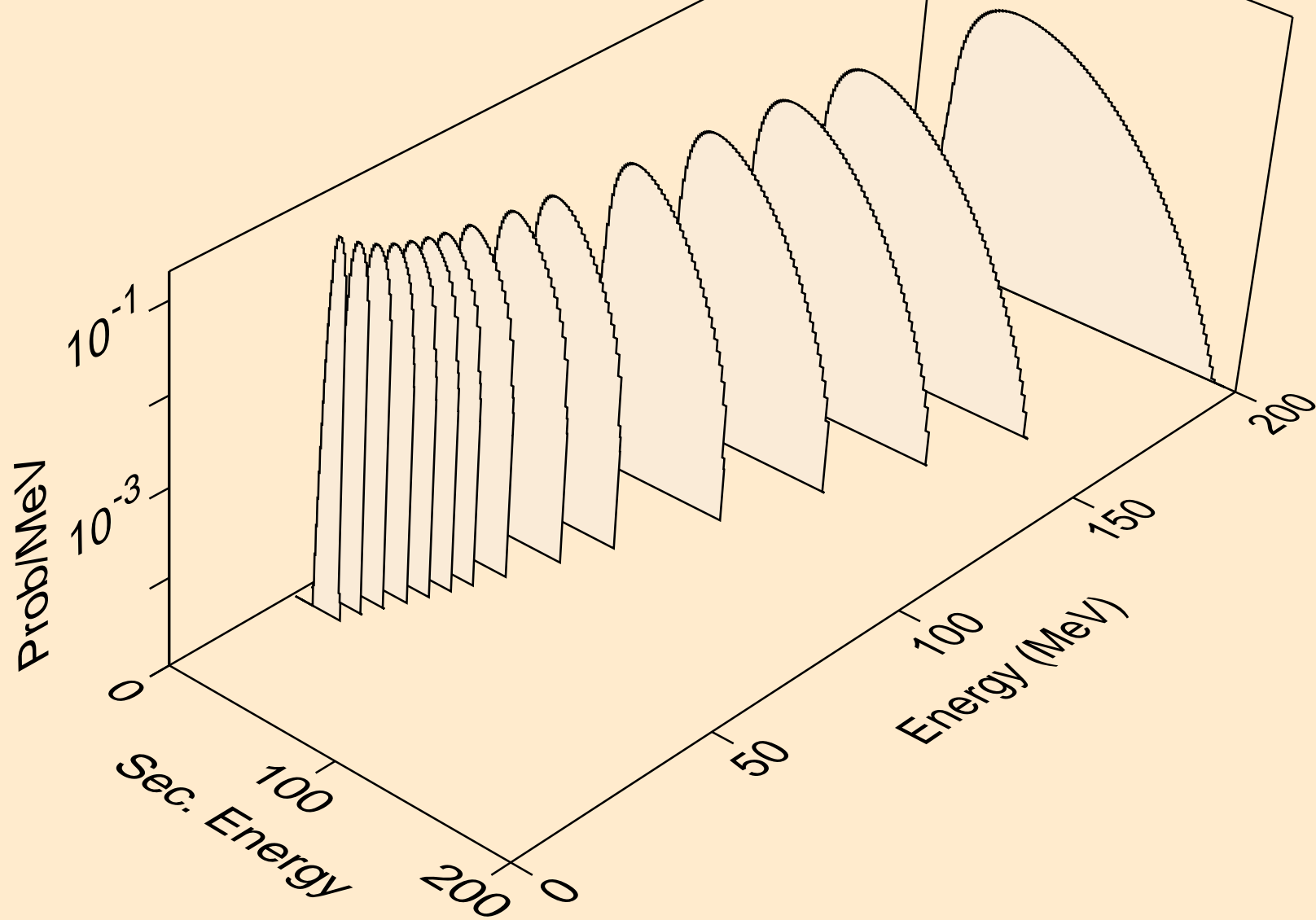


HG189 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
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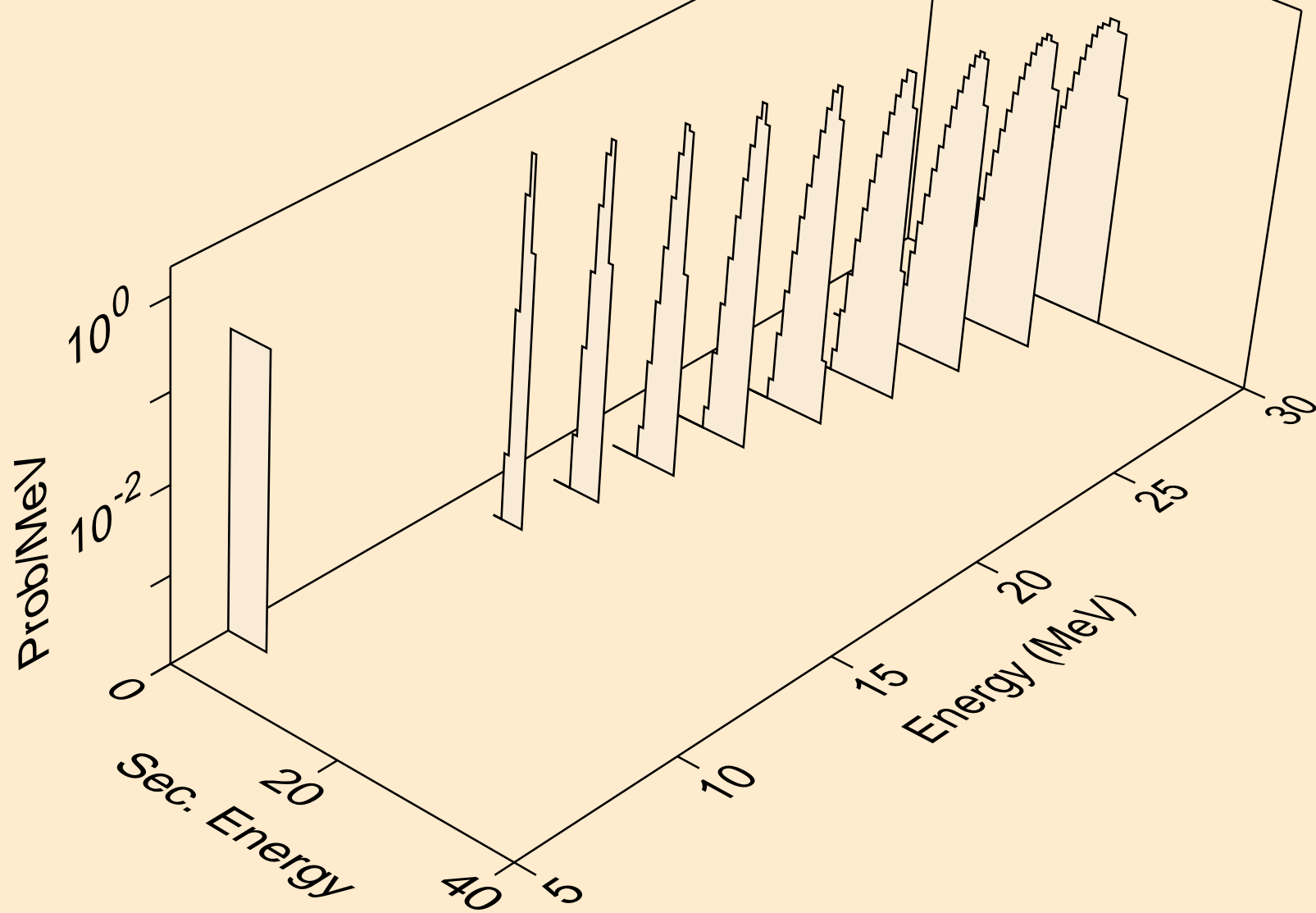




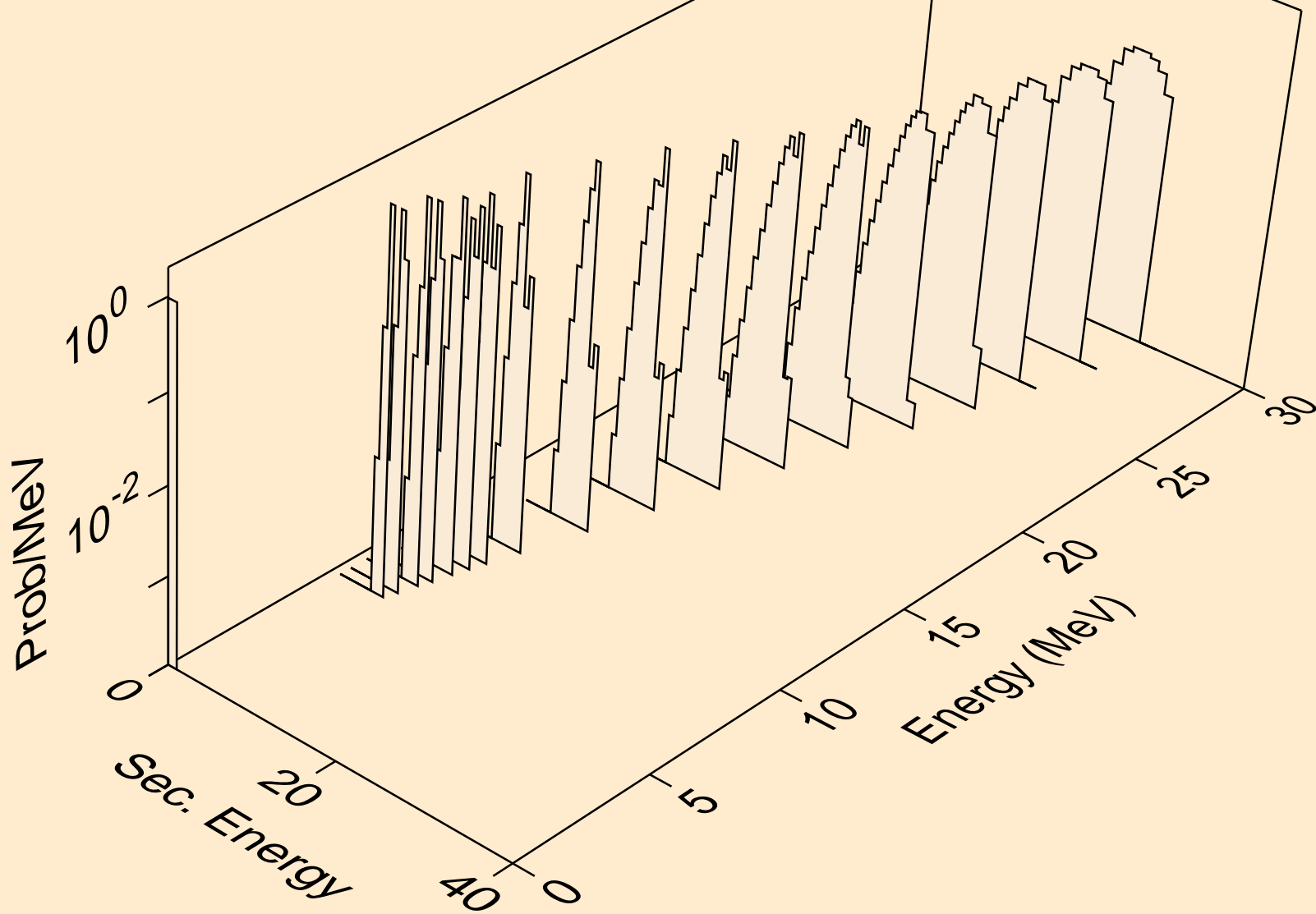
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he3s from (n,x)



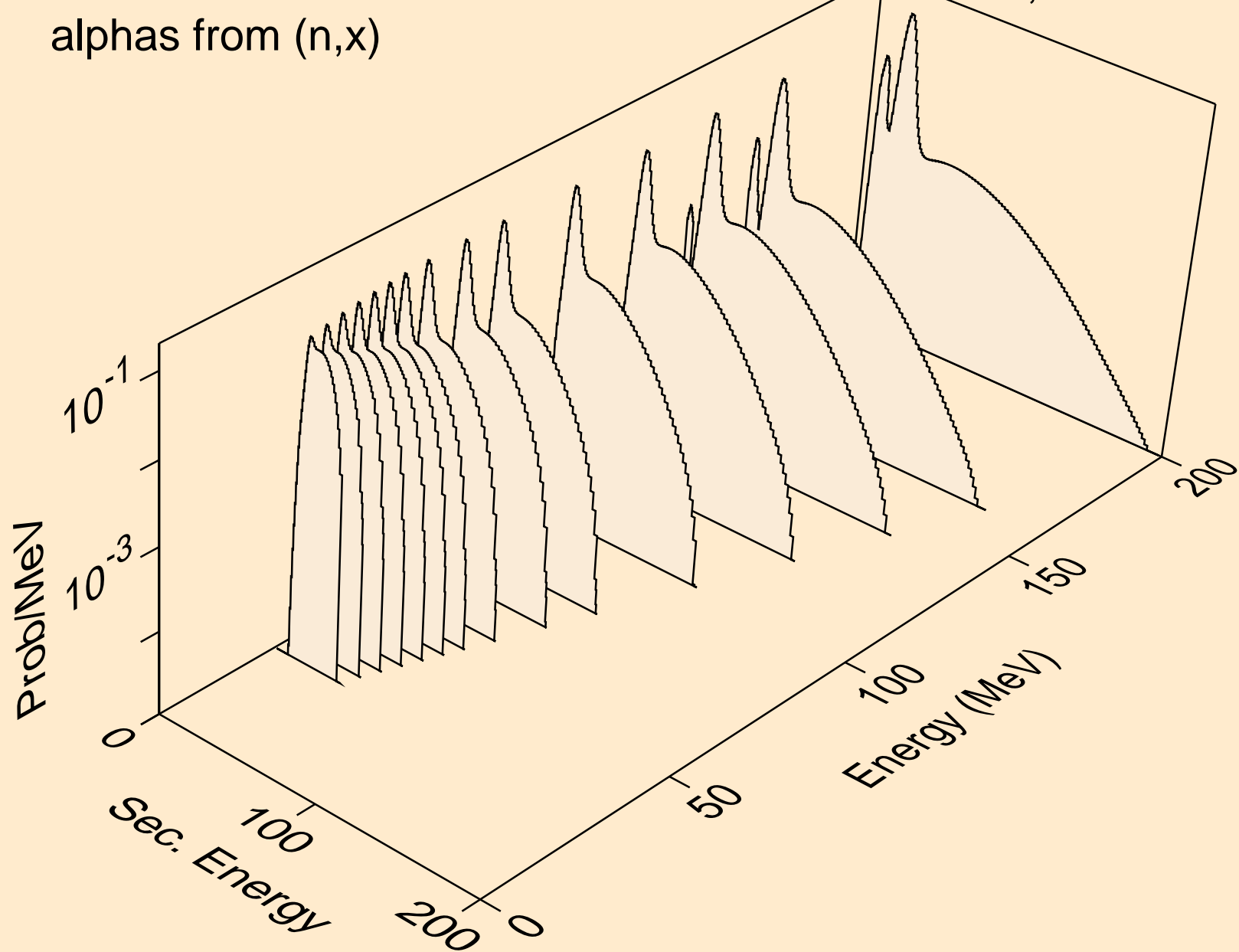
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he3s from (n,n\*)he3



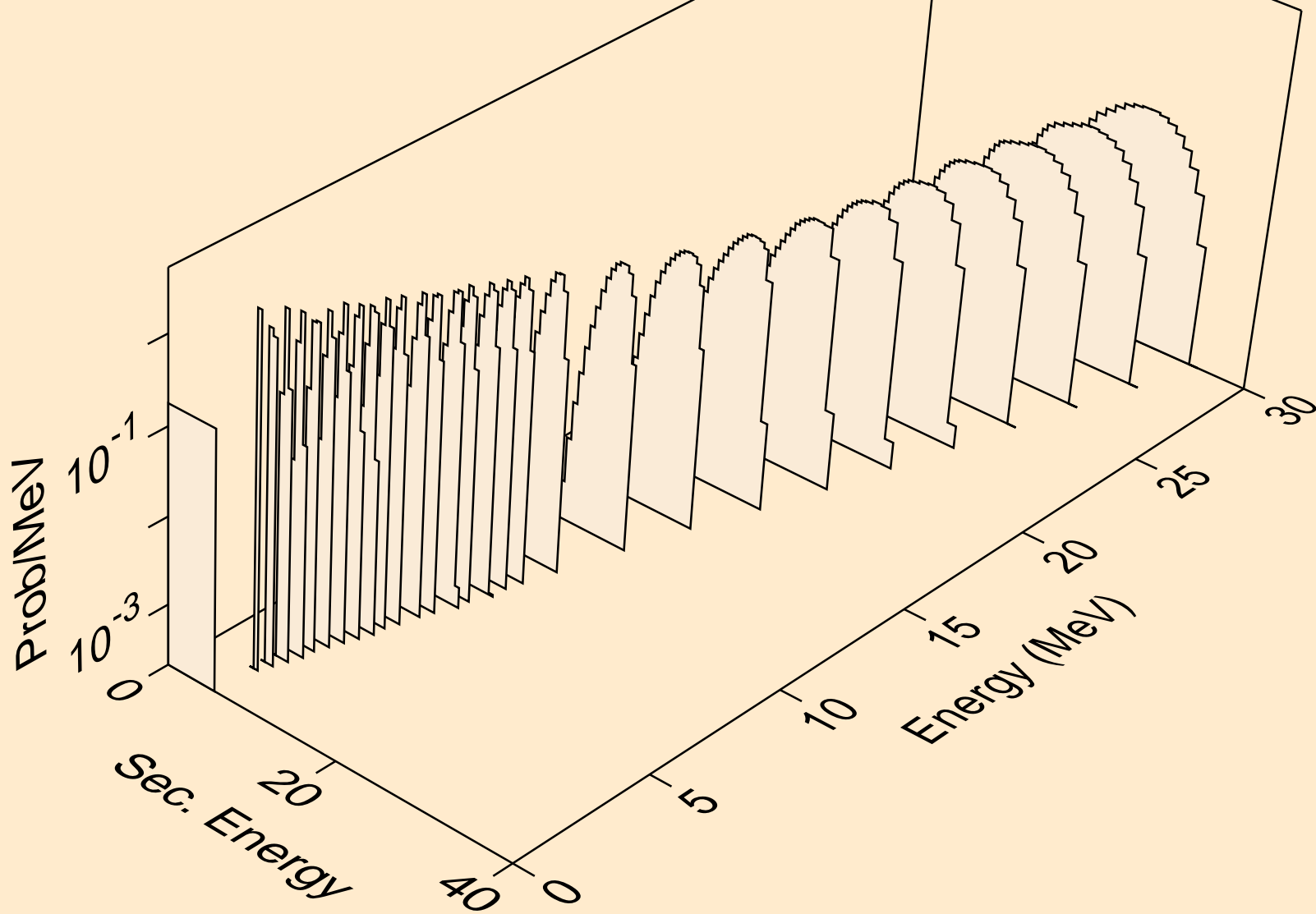
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he3s from (n,he3)



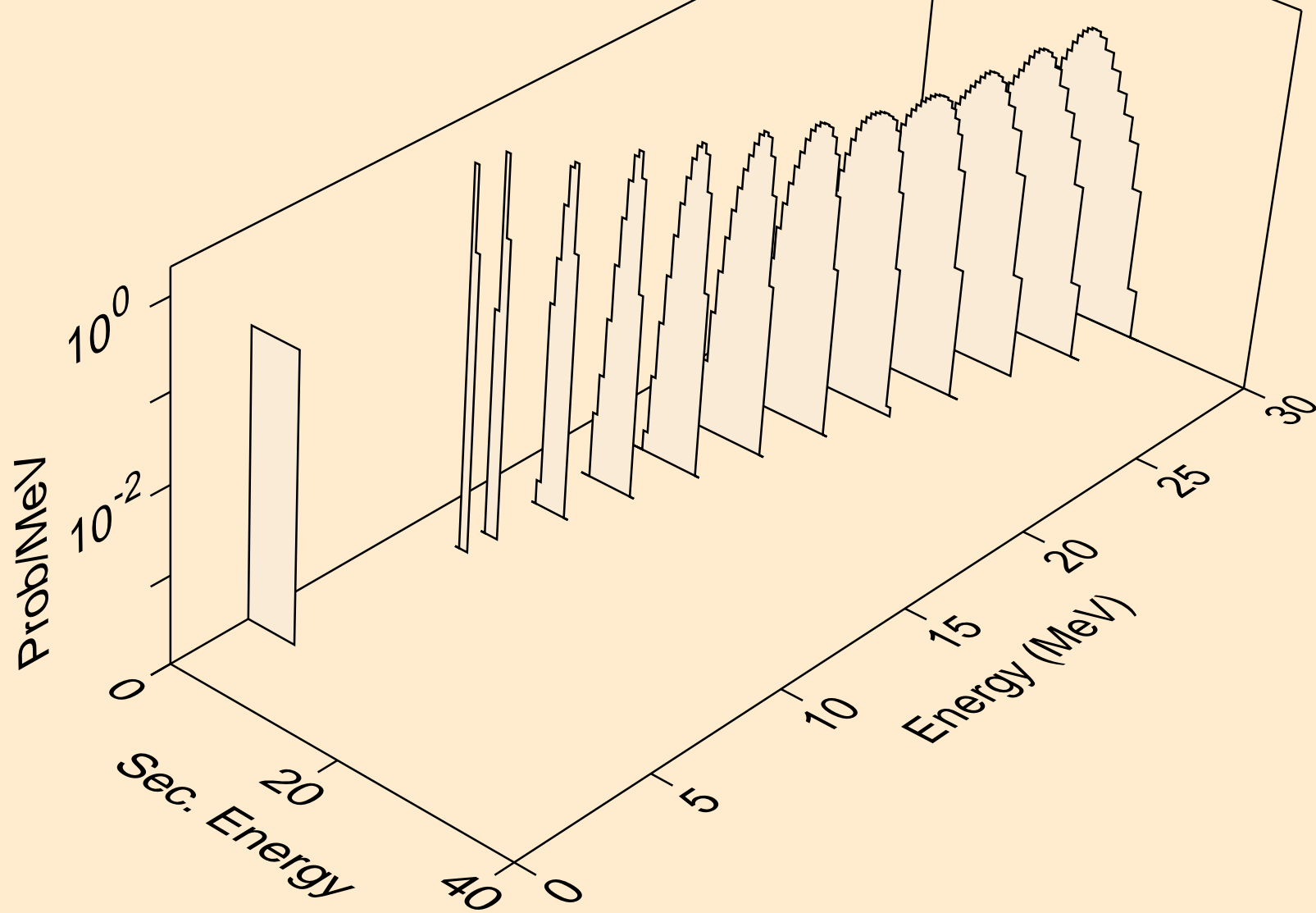
HG189 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,x)



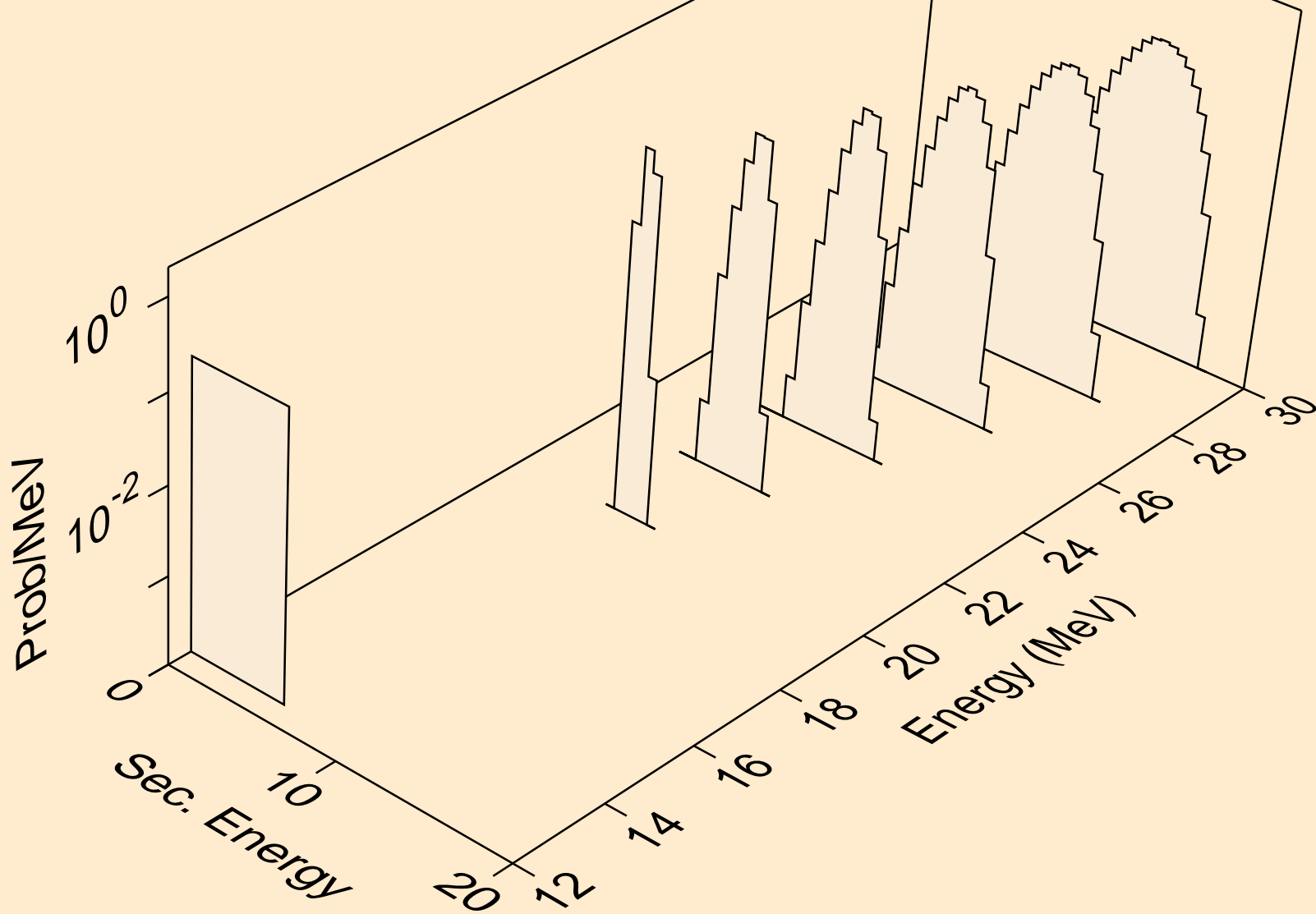
HG189 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,n\*)a



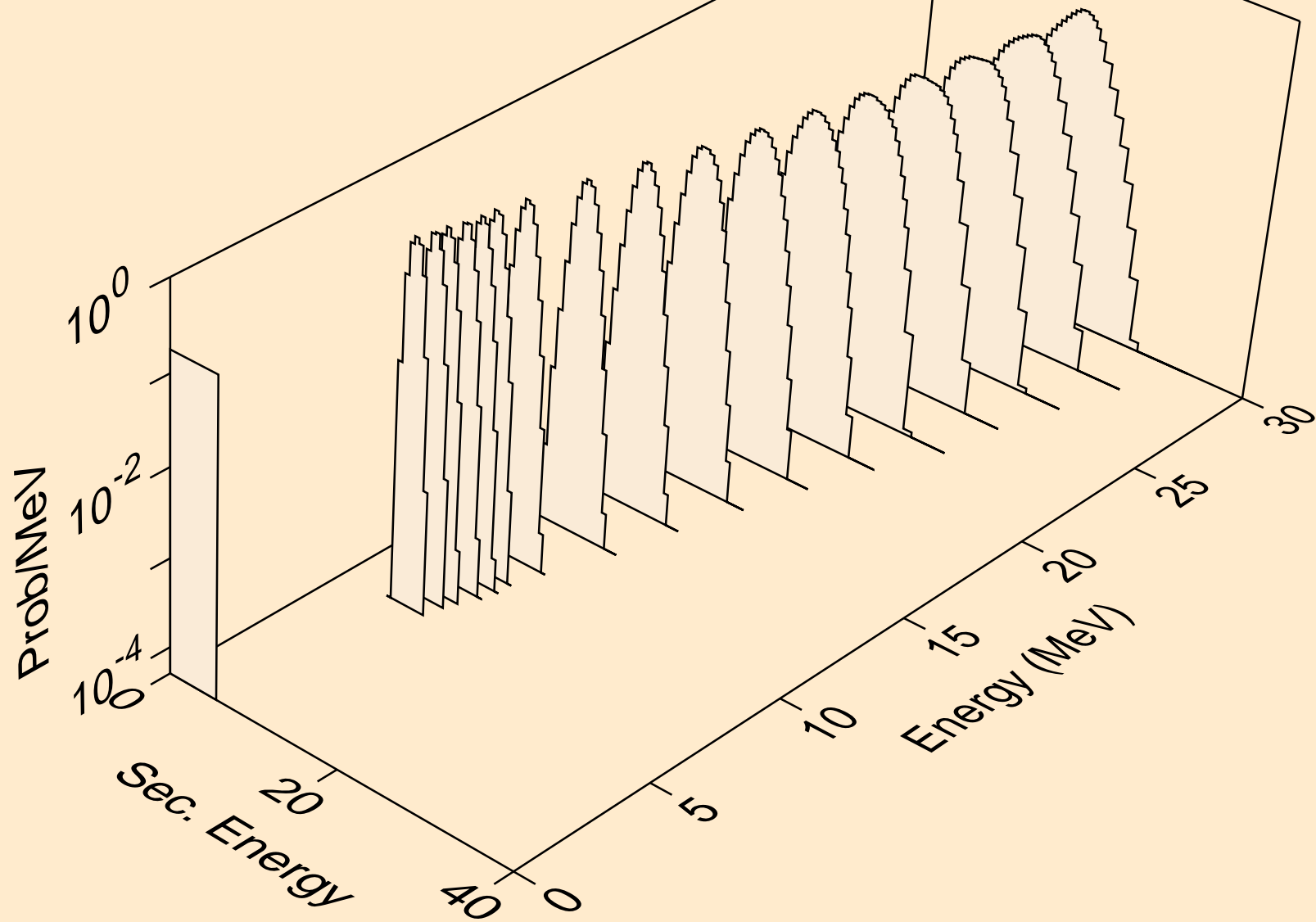
HG189 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,2n)a



HG189 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,3n)a

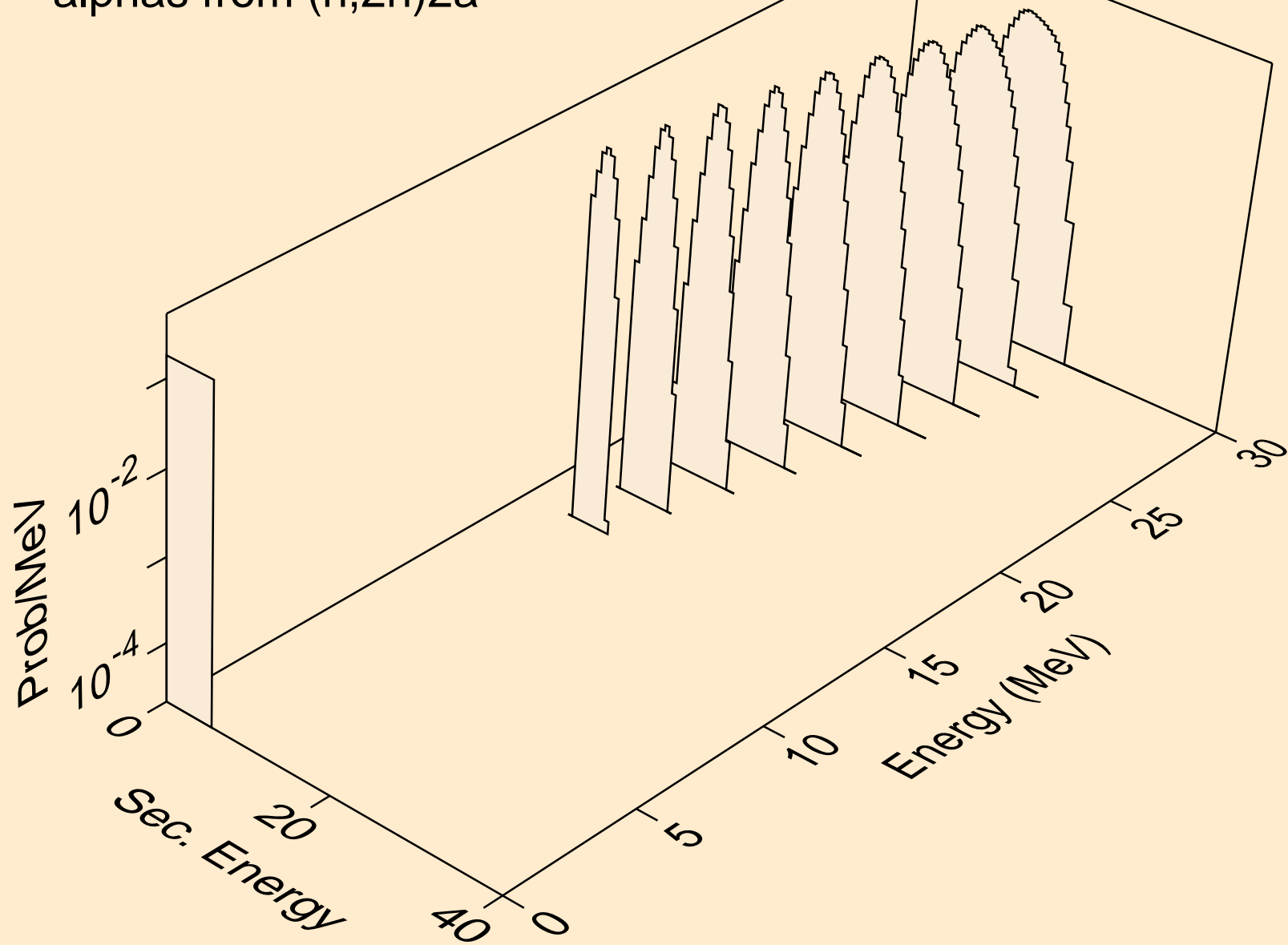


HG189 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,n\*)2a

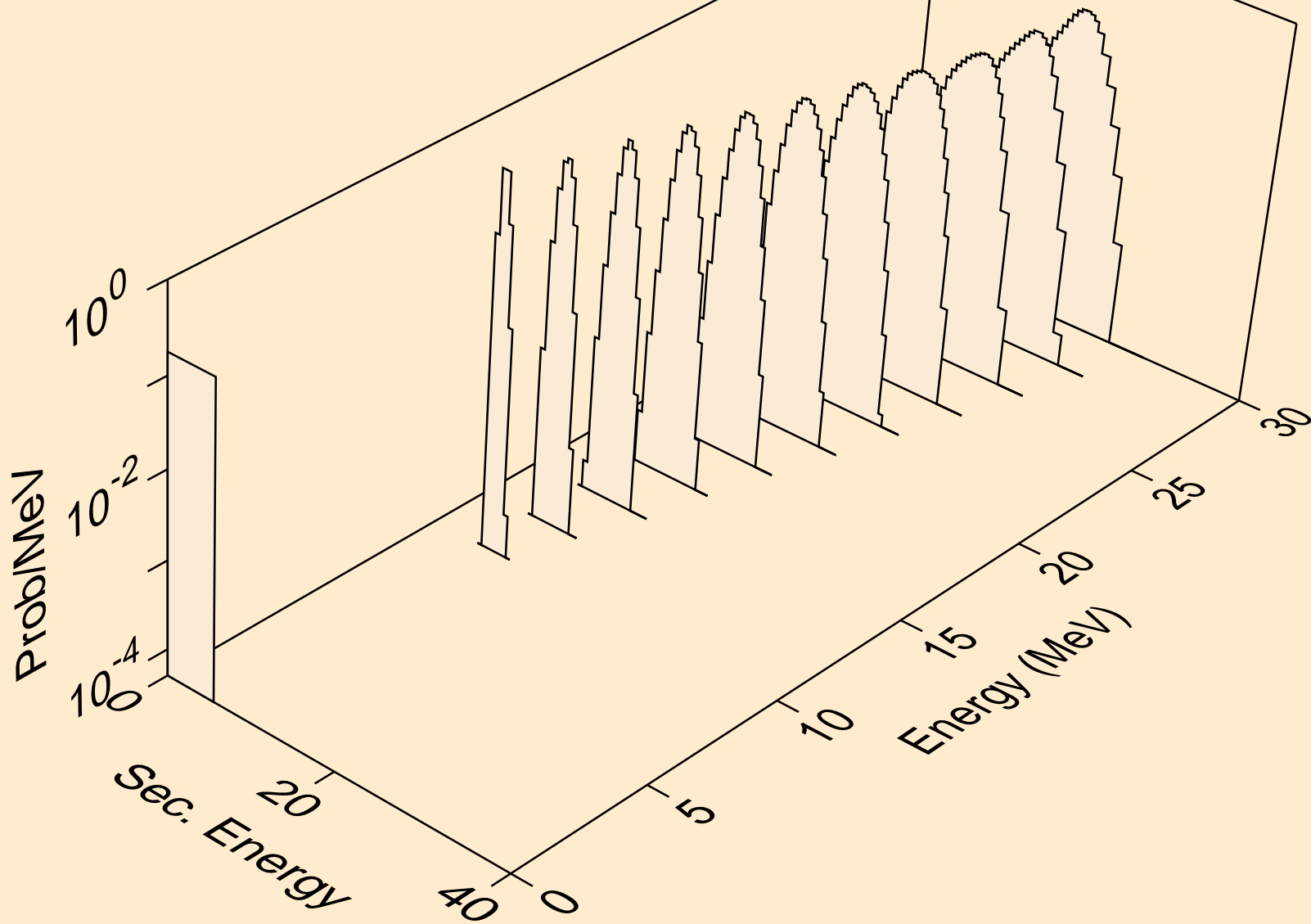




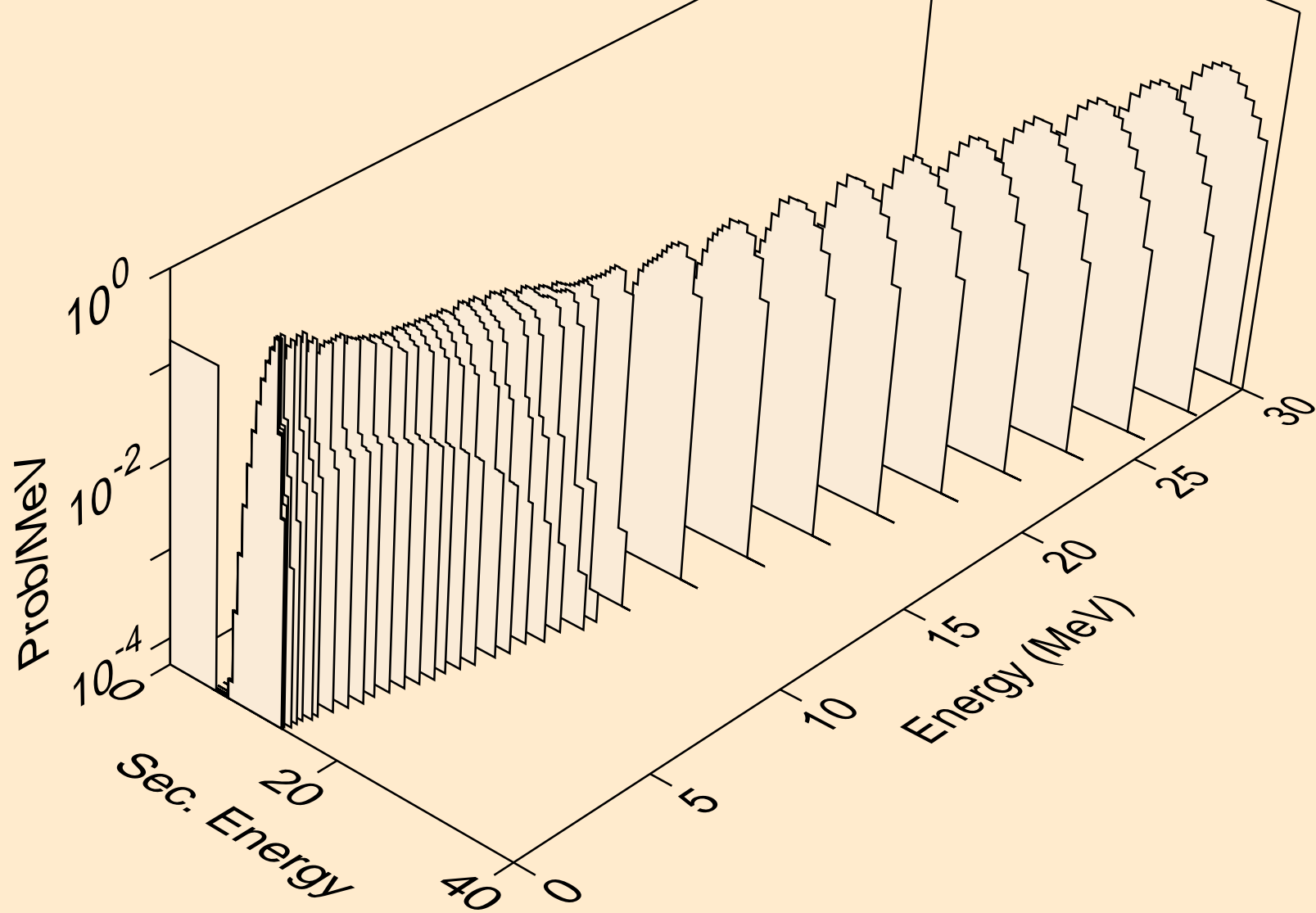
HG189 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,2n)2a



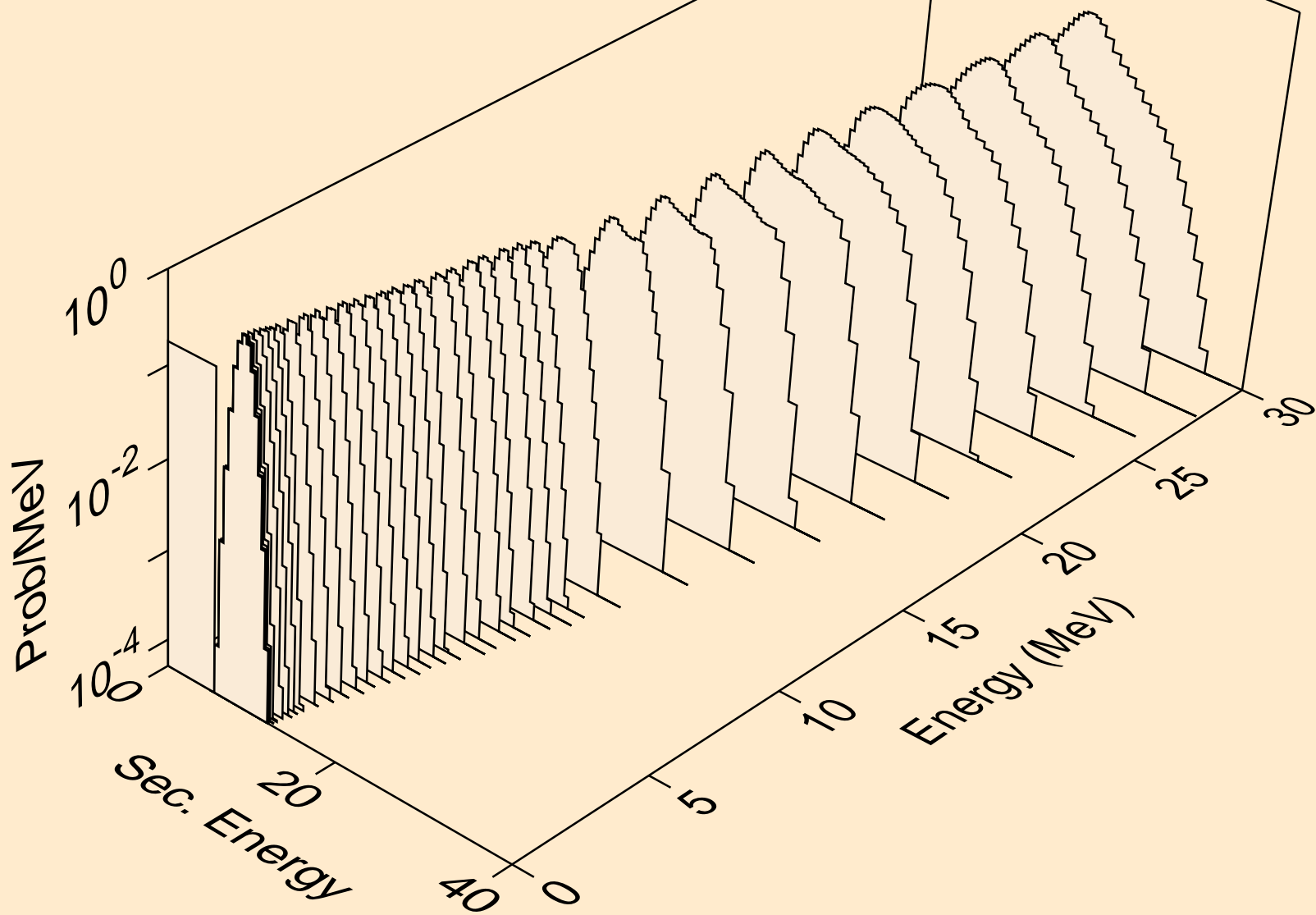
HG189 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,npa)



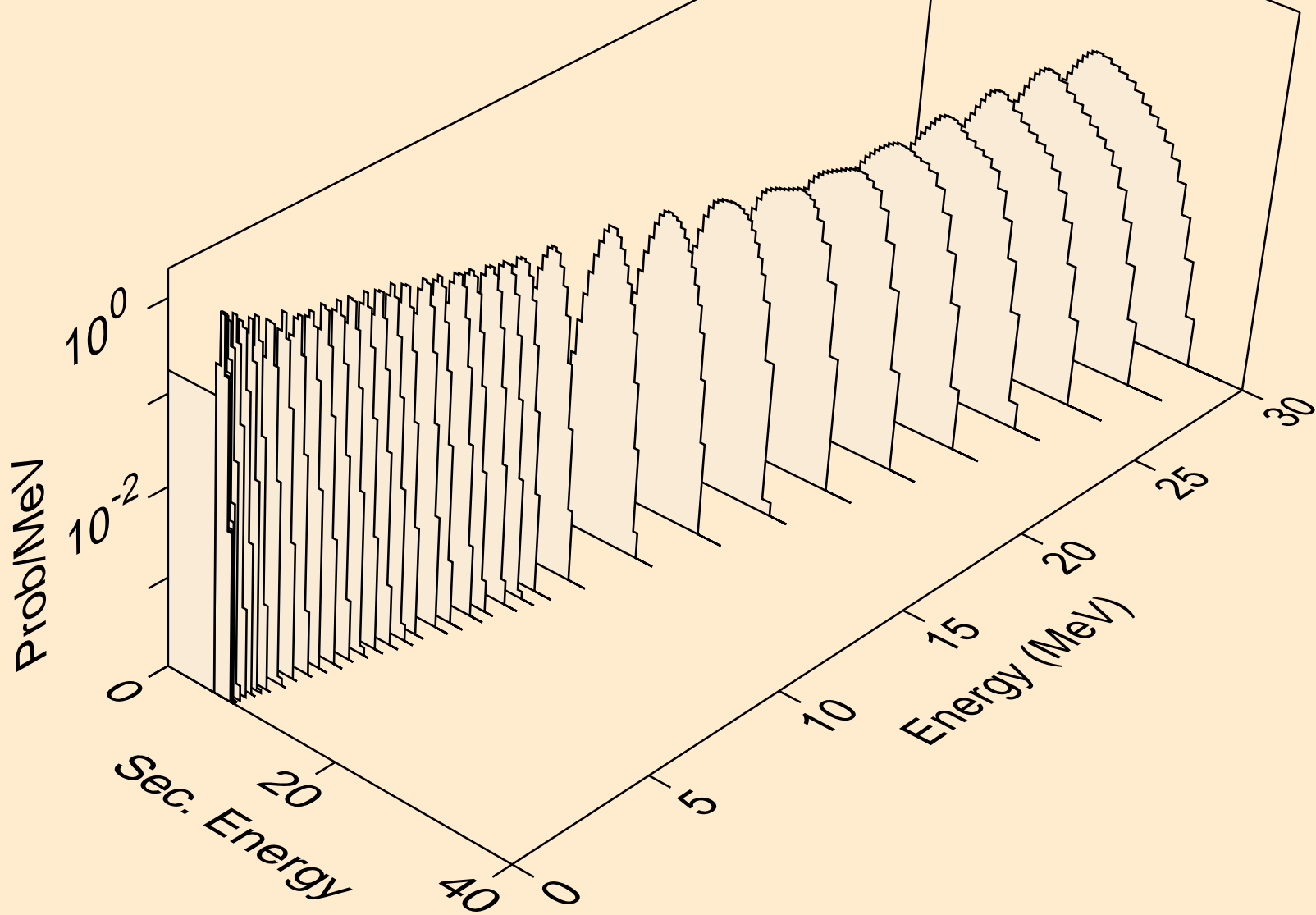
HG189 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,a)



HG189 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,2a)



HG189 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,pa)



HG189 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,da)

