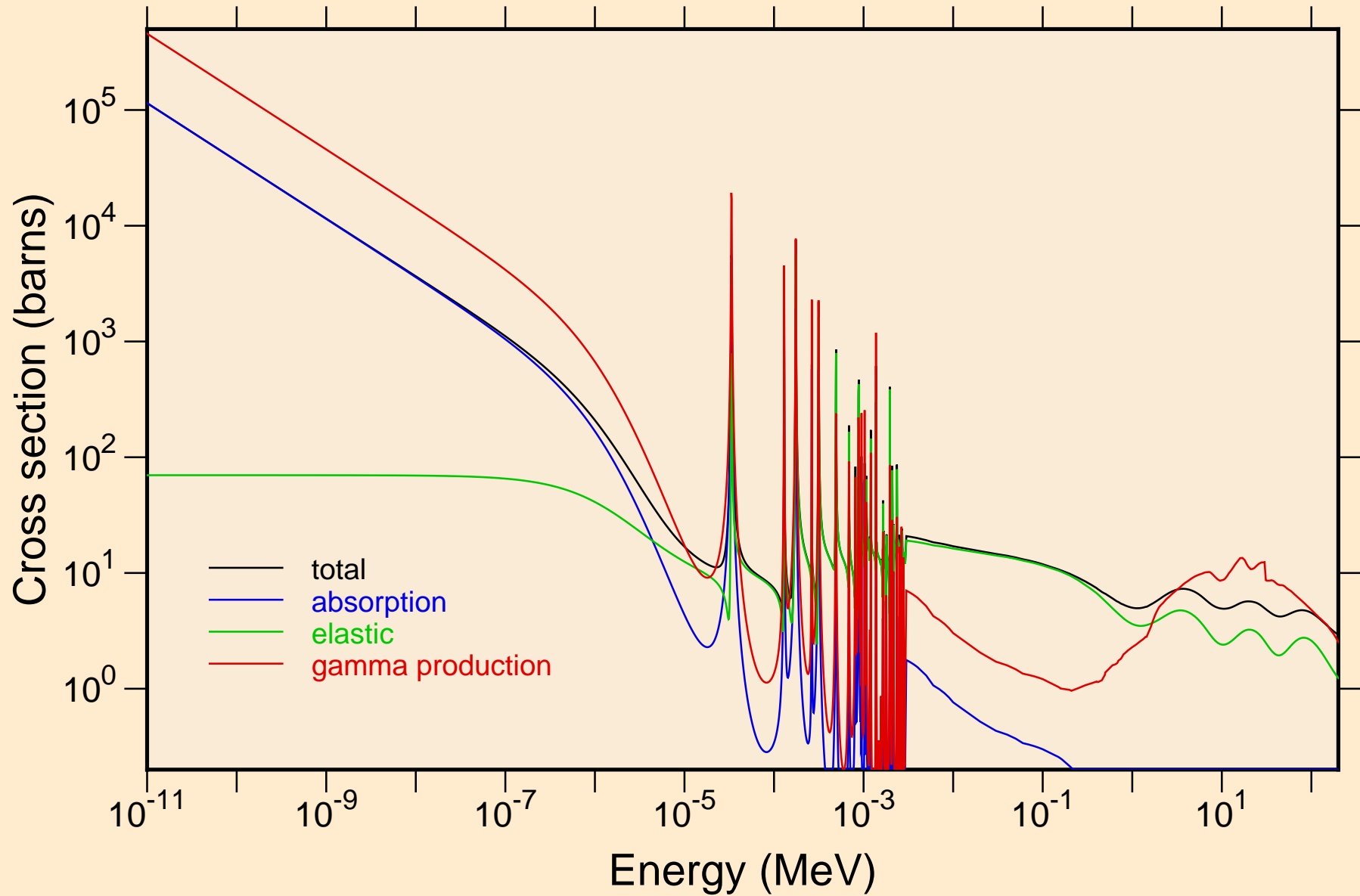
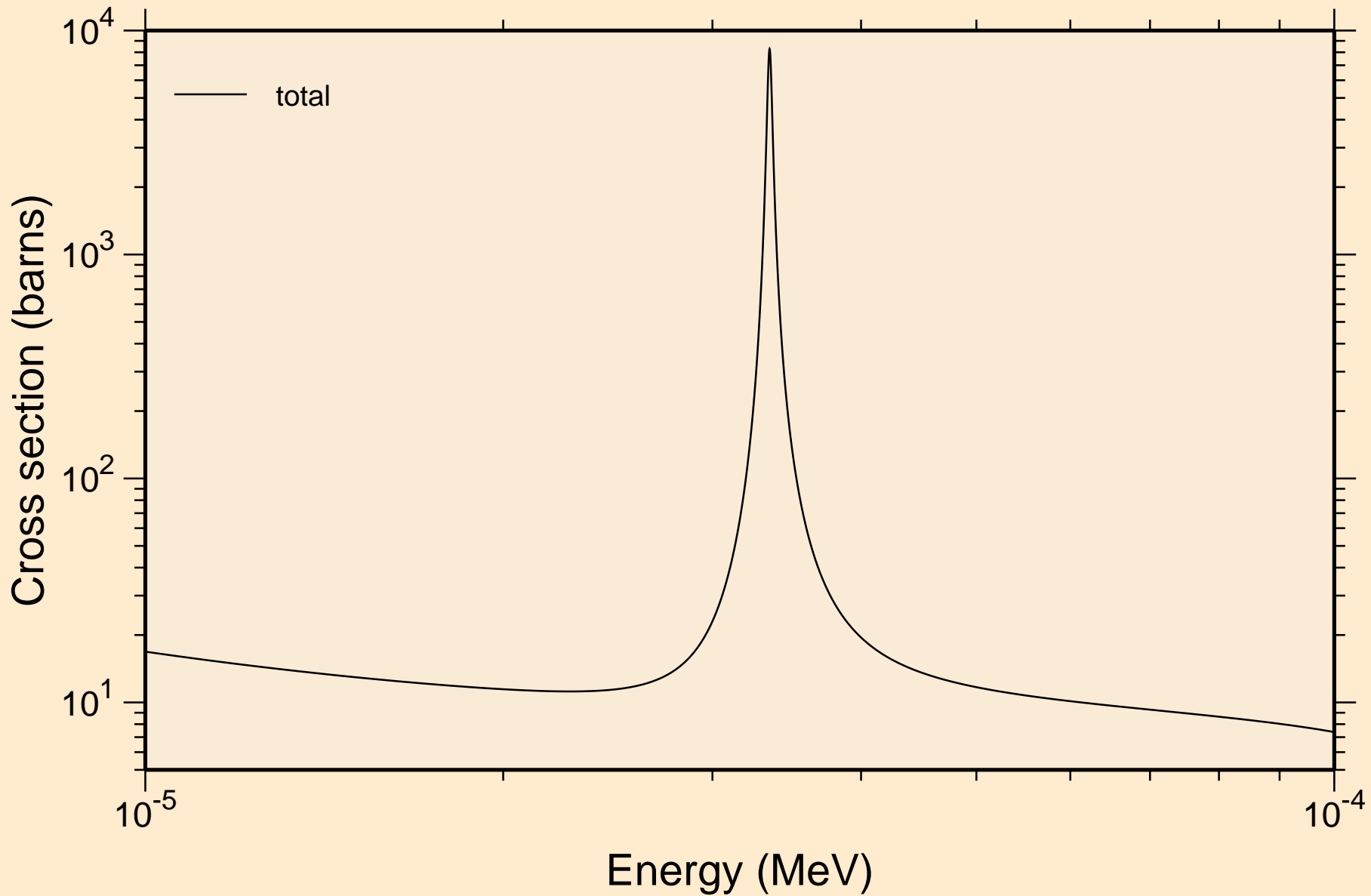


# HG199 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K

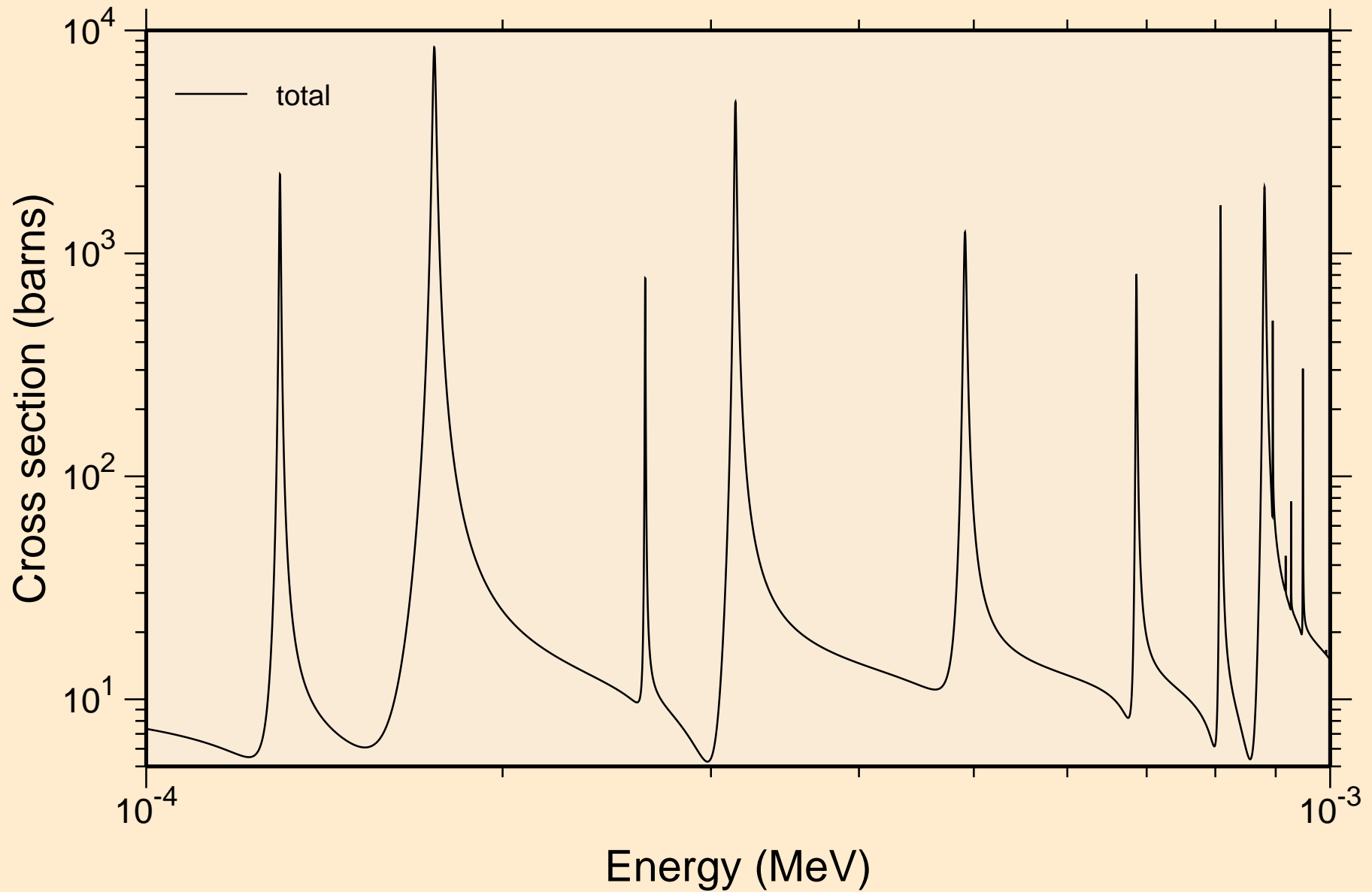
## Principal cross sections



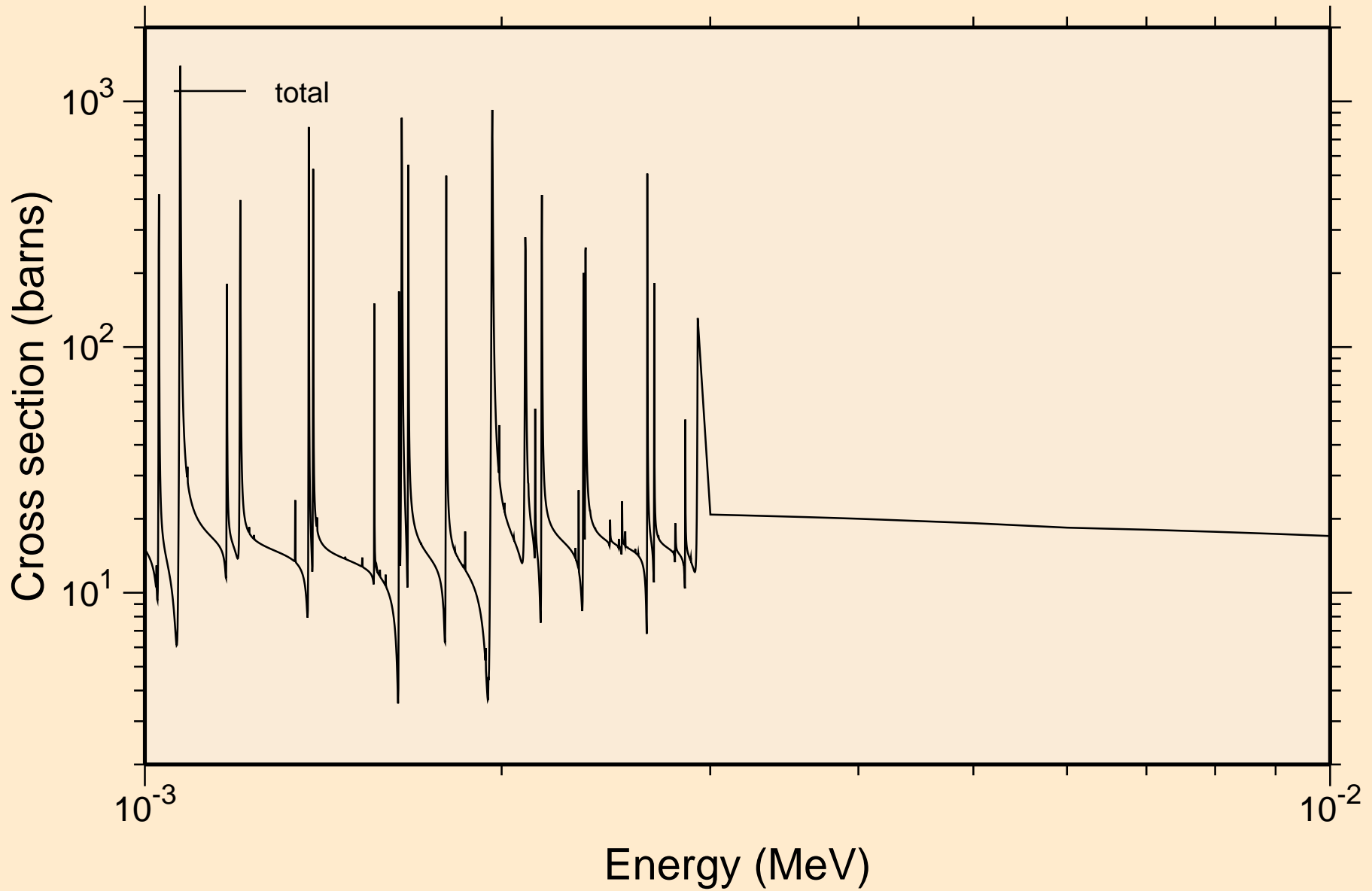
HG199 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
resonance total cross section



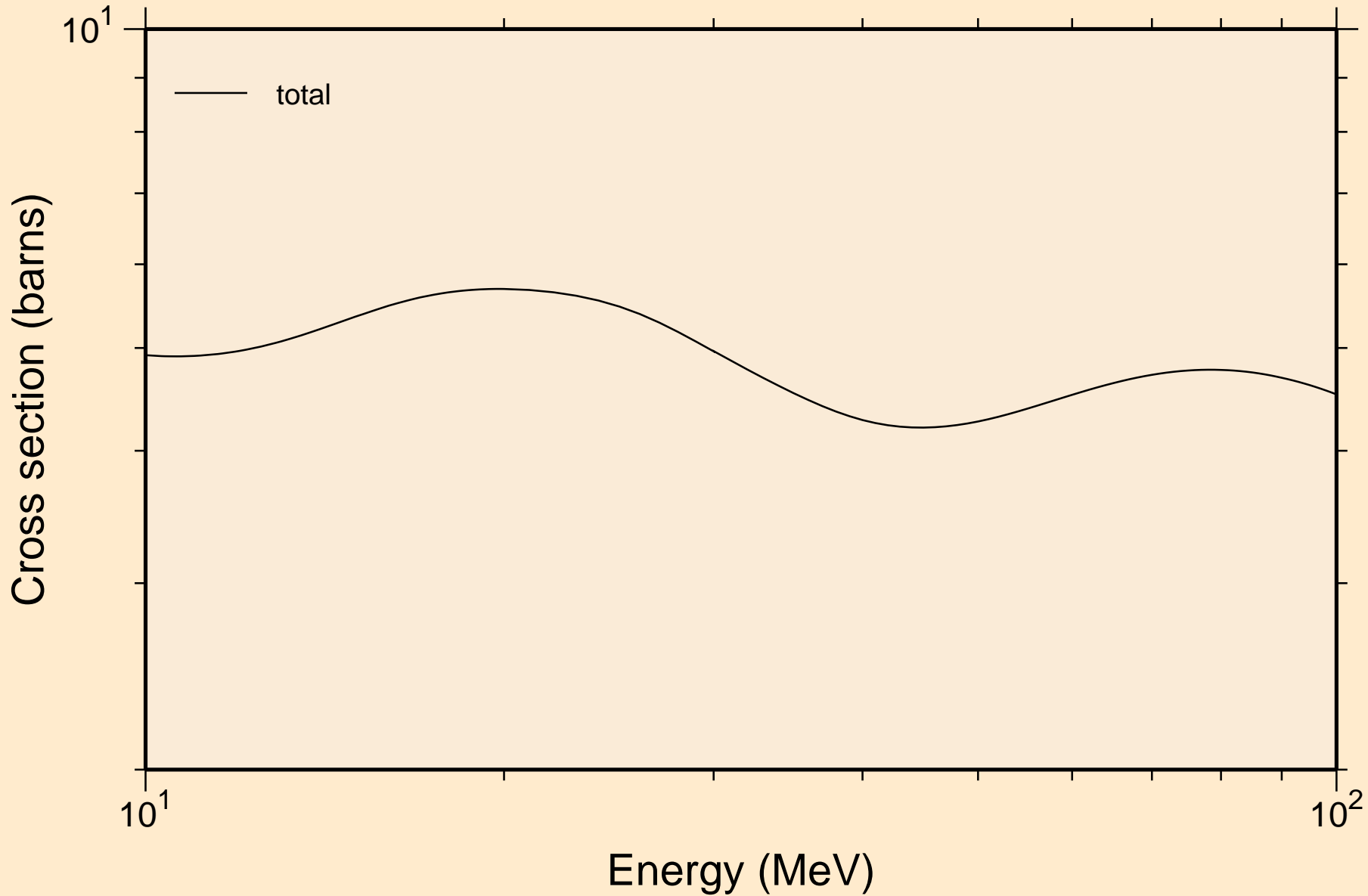
HG199 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
resonance total cross section



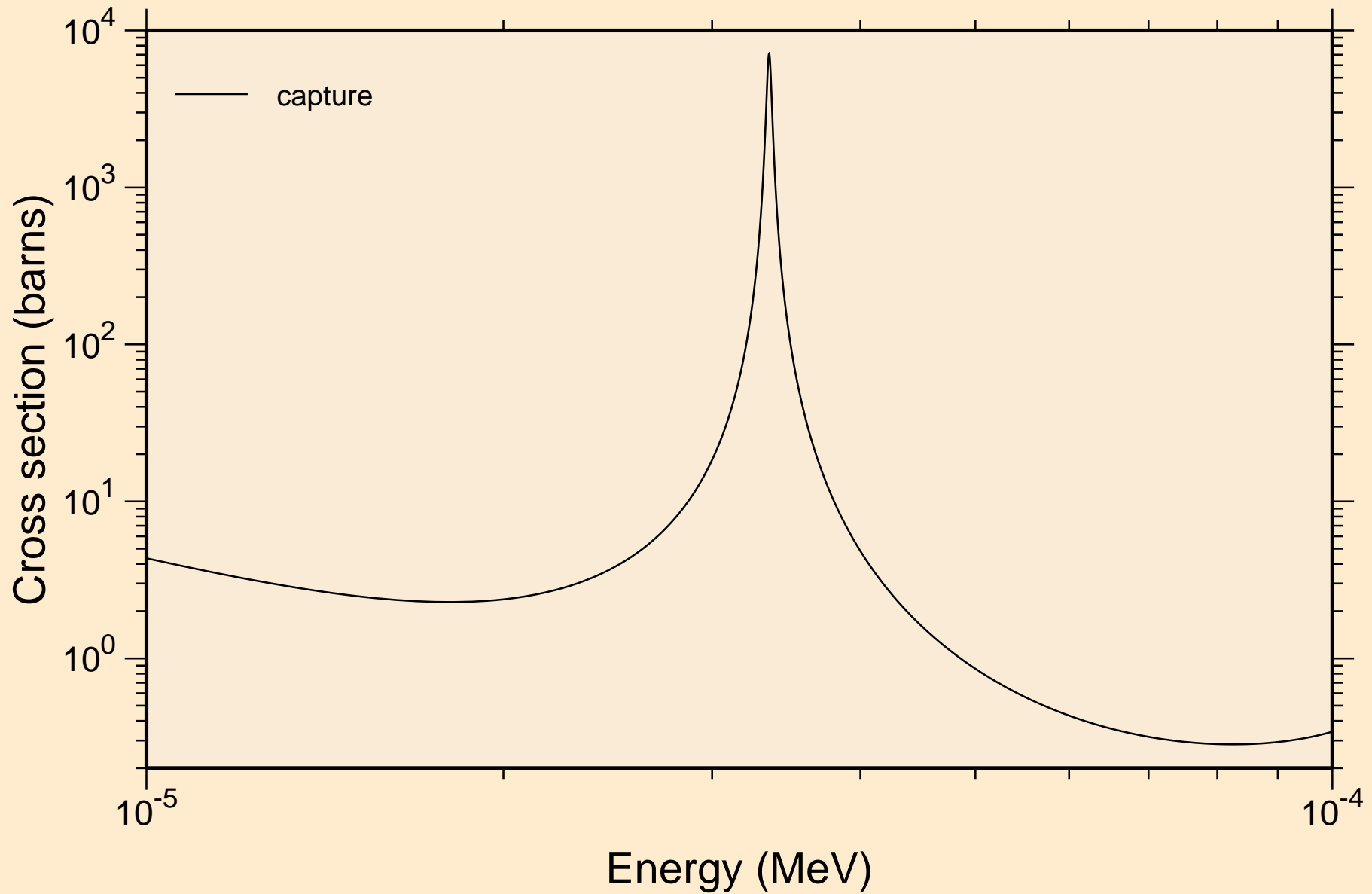
HG199 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
resonance total cross section



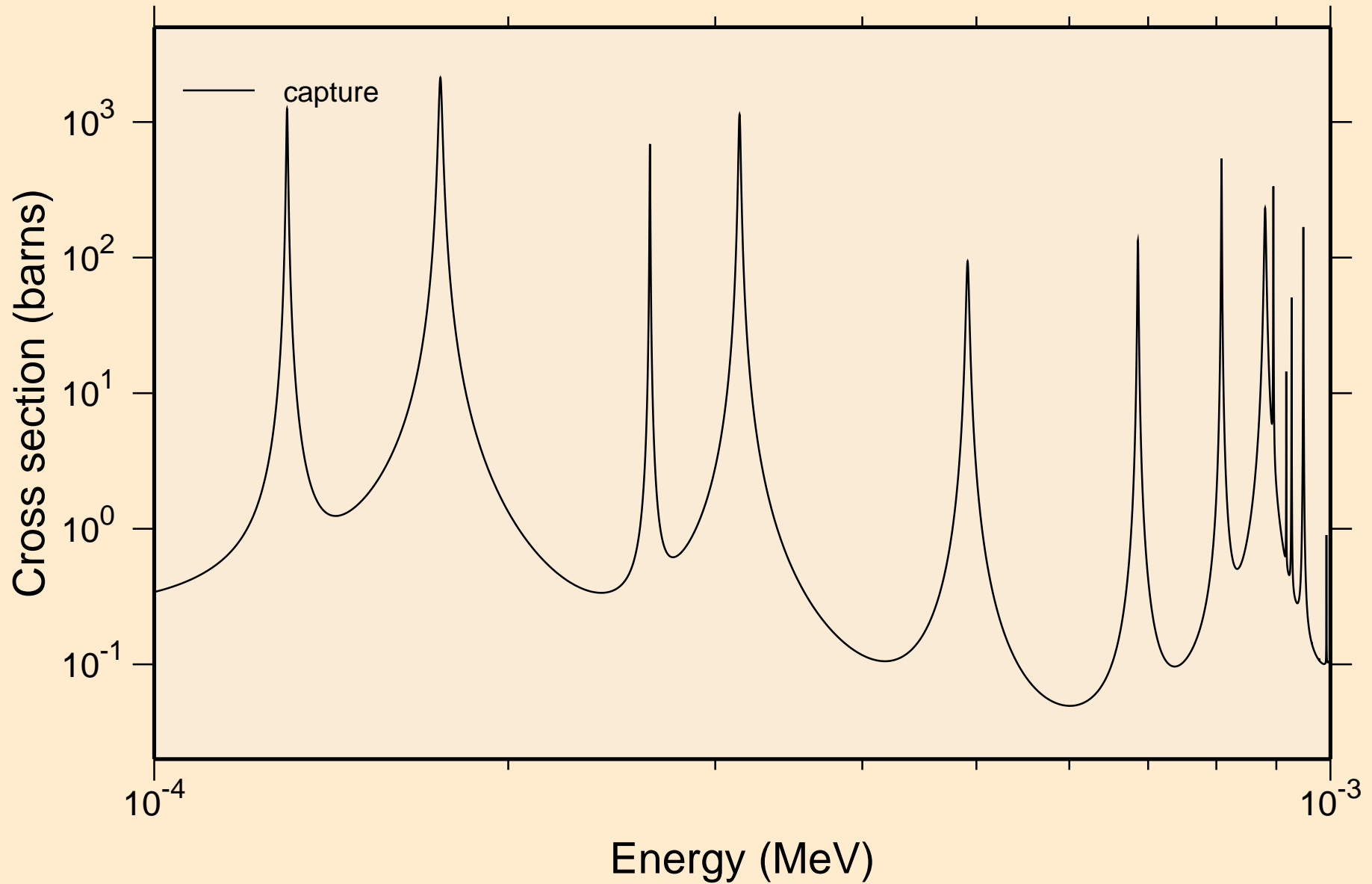
HG199 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
resonance total cross section



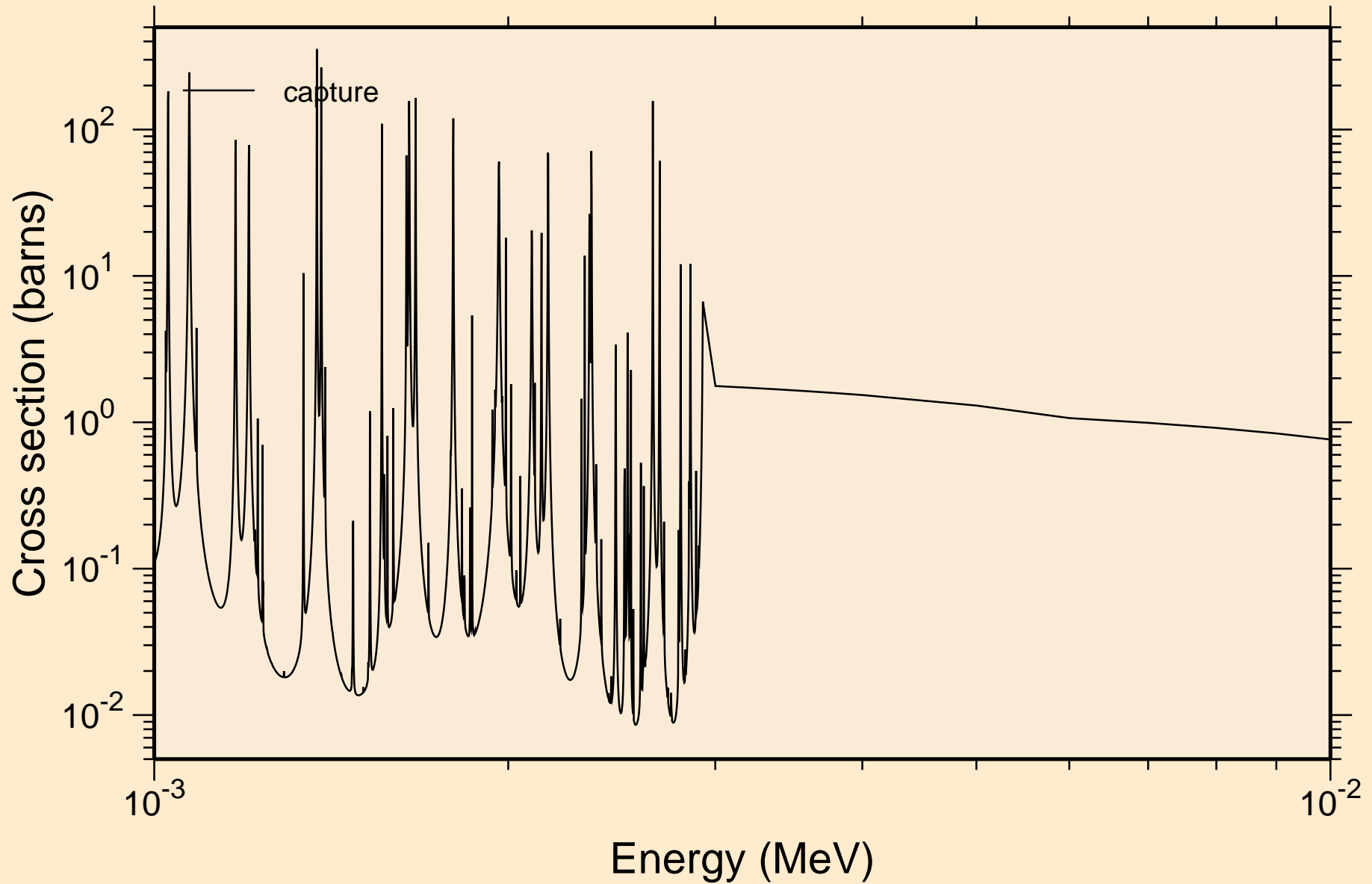
HG199 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
resonance absorption cross sections



HG199 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
resonance absorption cross sections

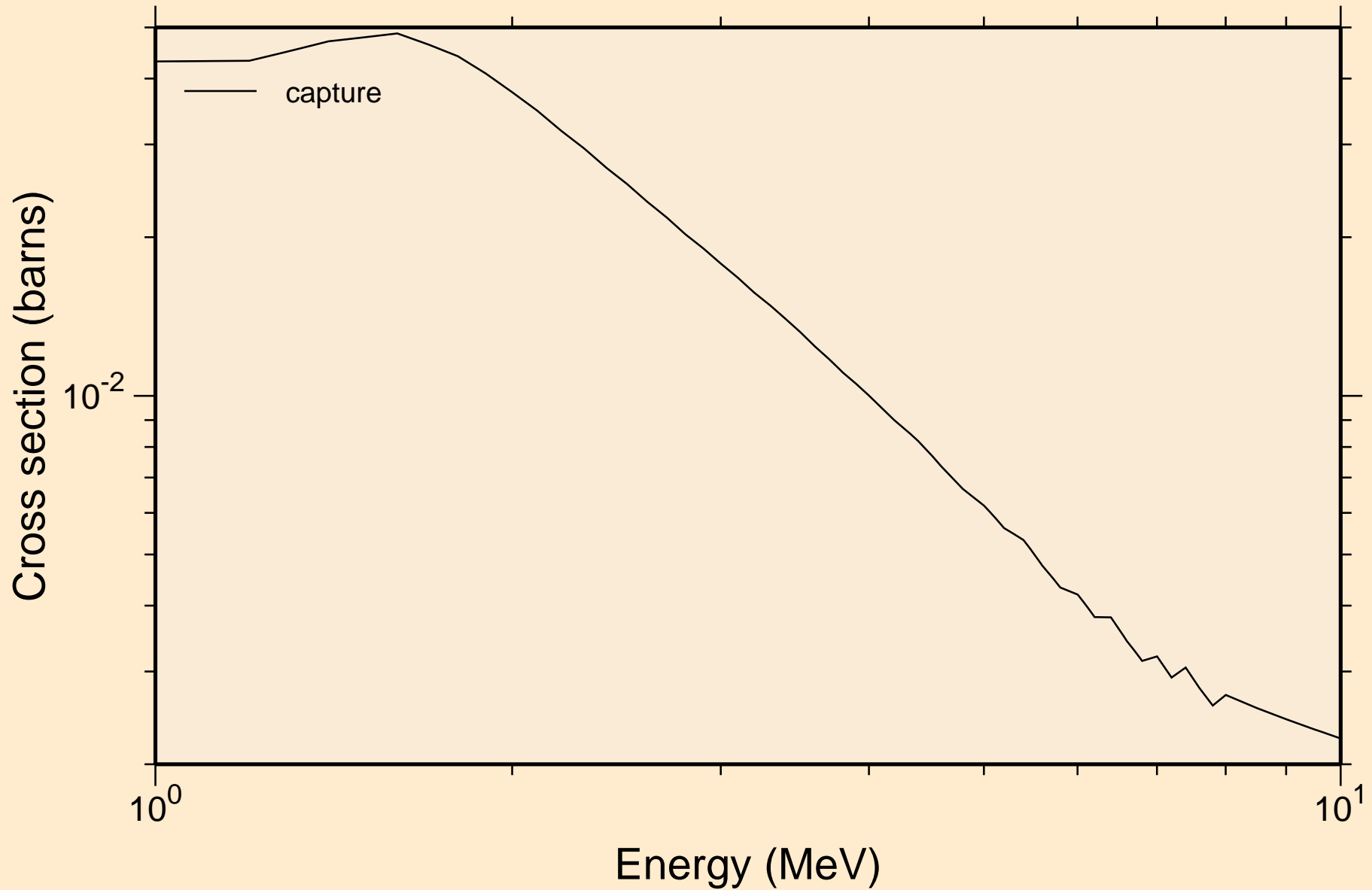


HG199 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
resonance absorption cross sections

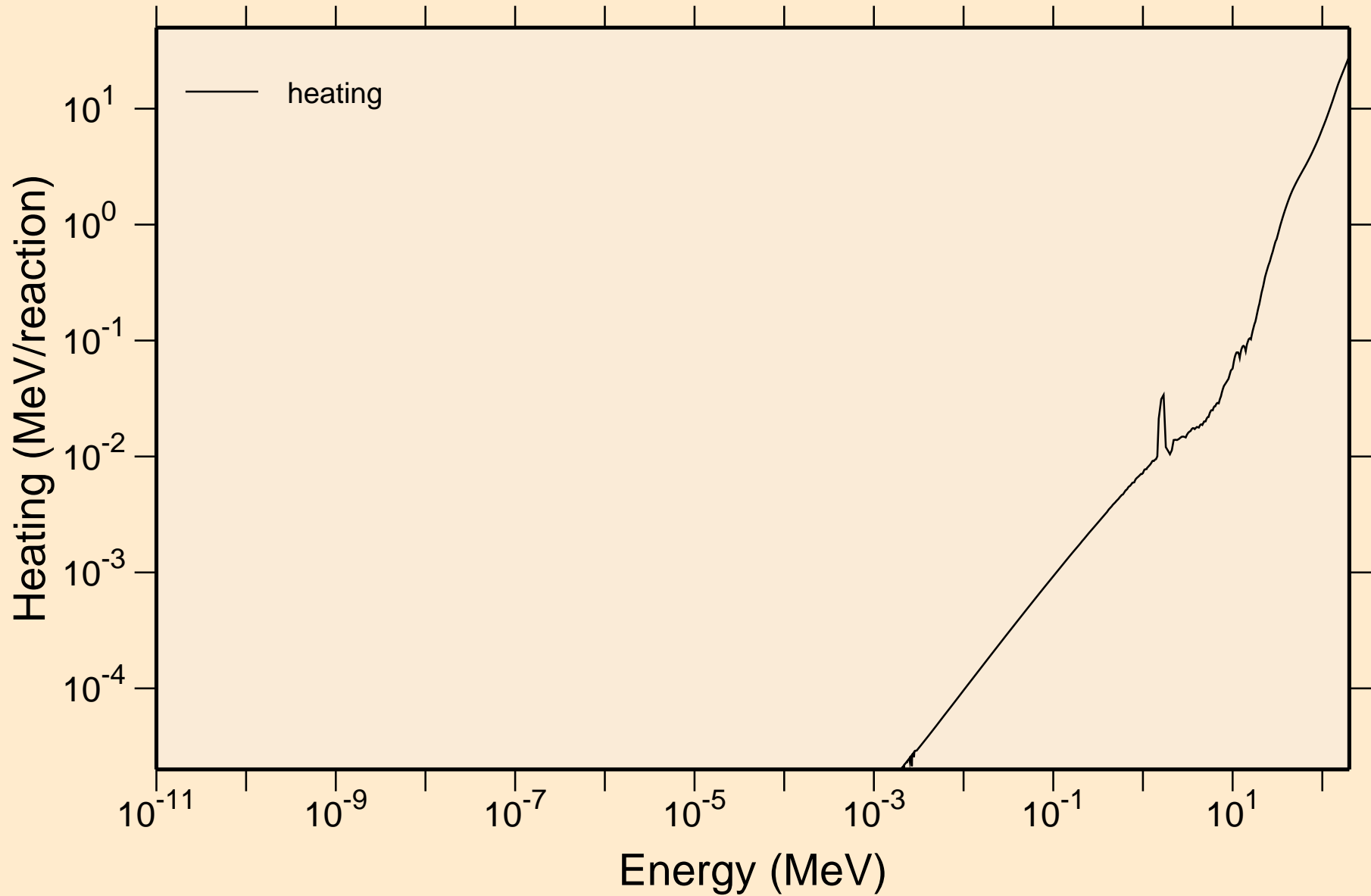




HG199 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
resonance absorption cross sections

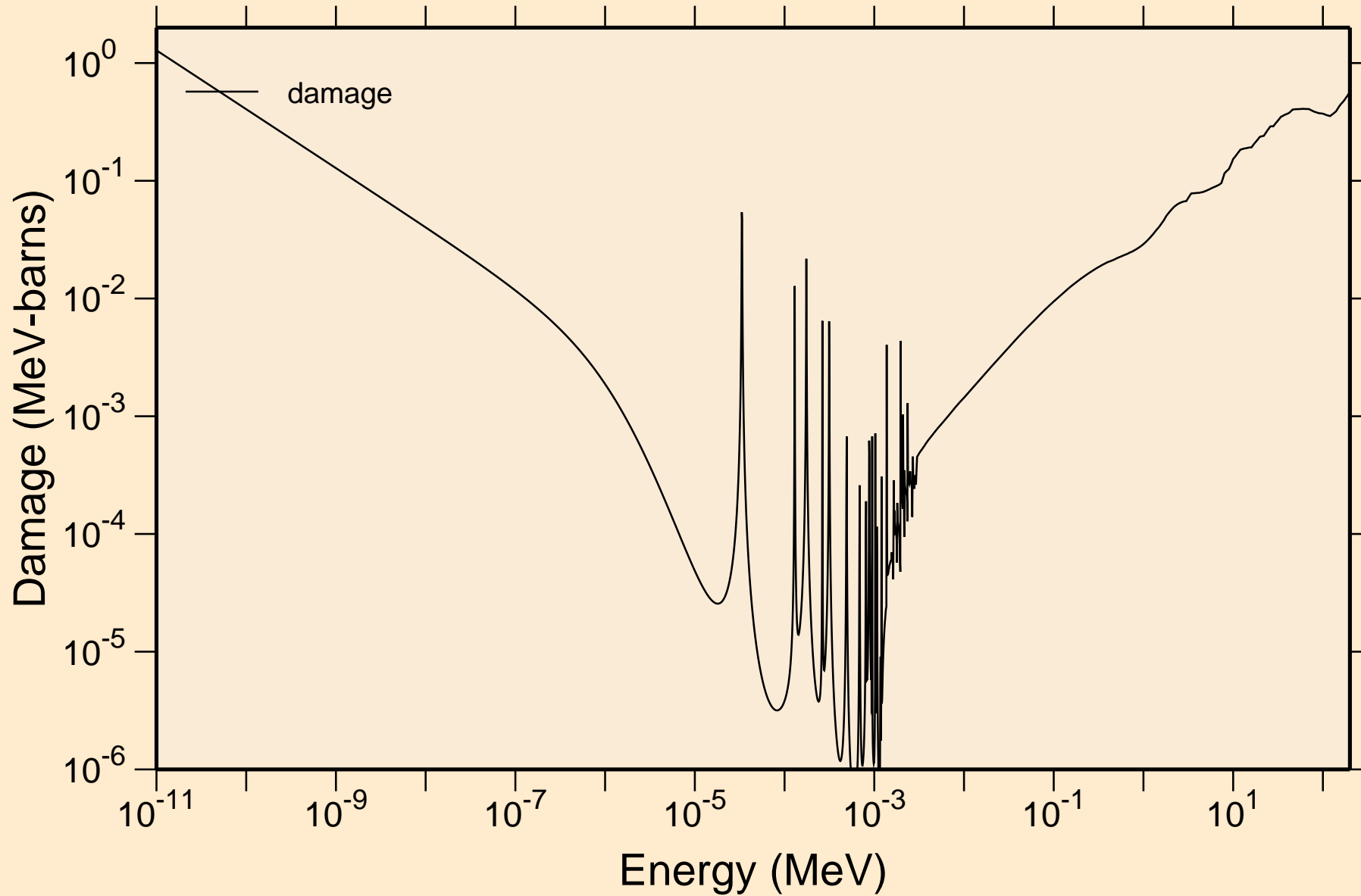


HG199 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Heating



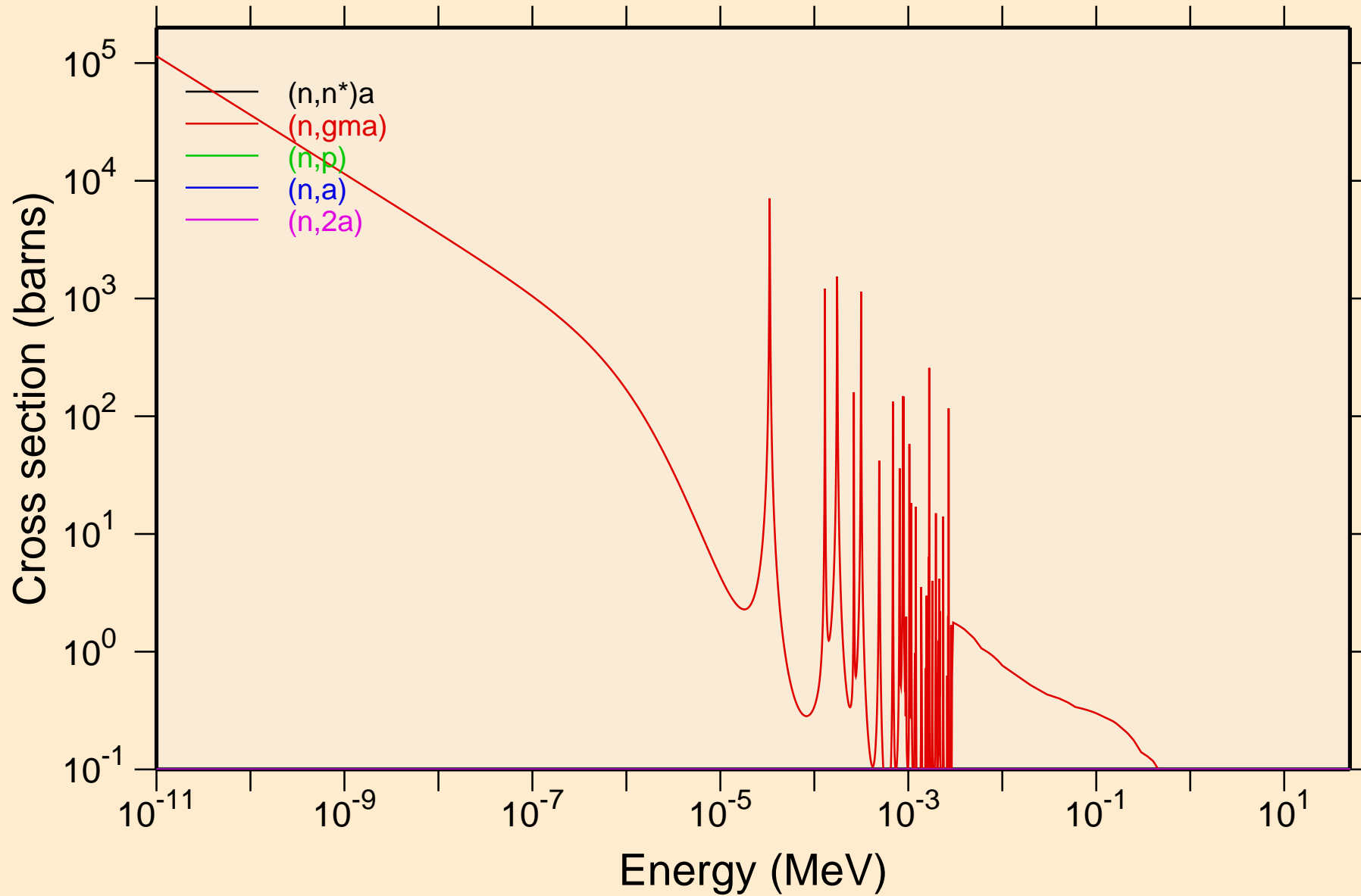
# HG199 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K

## Damage

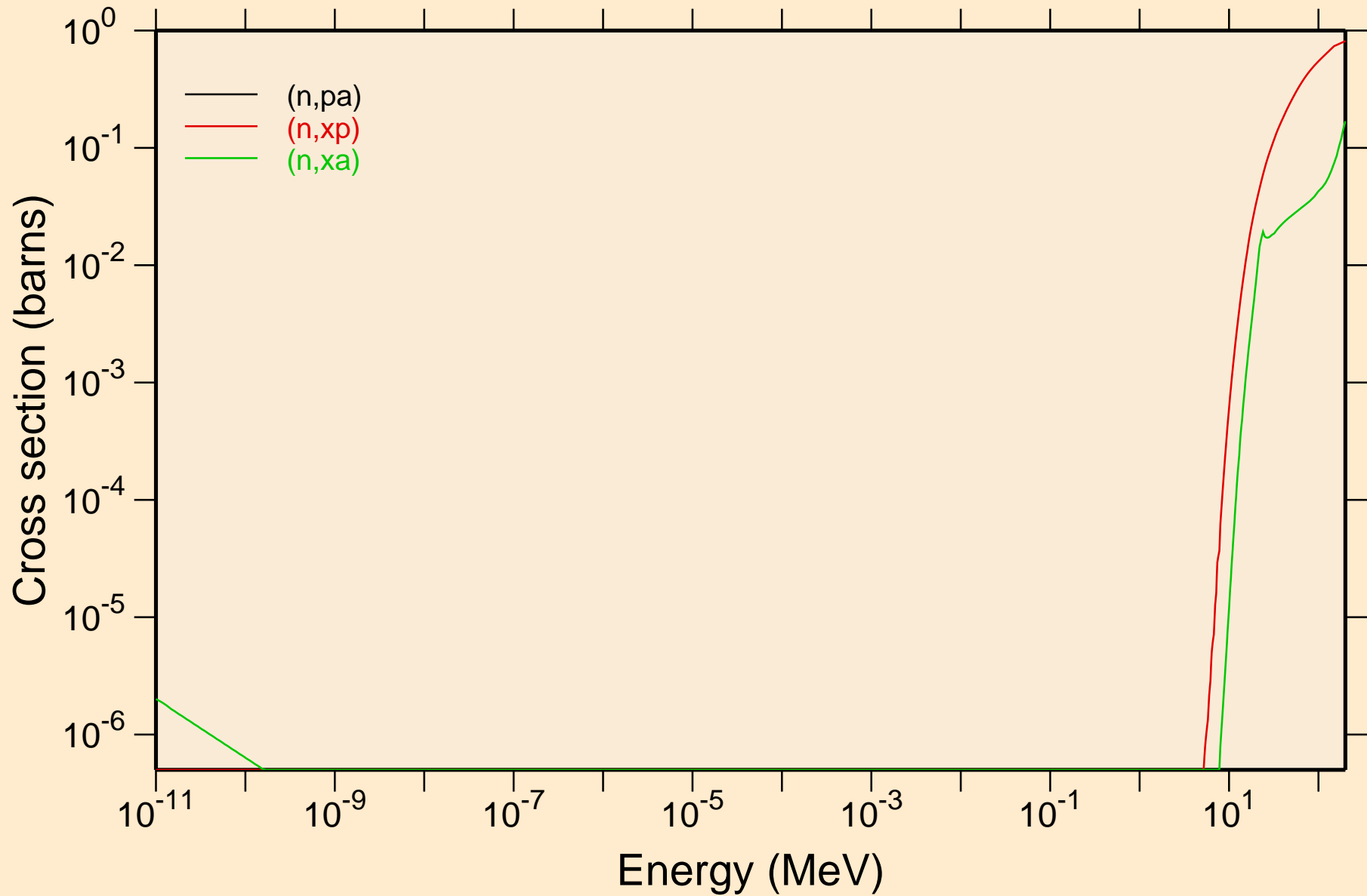


# HG199 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K

## Non-threshold reactions

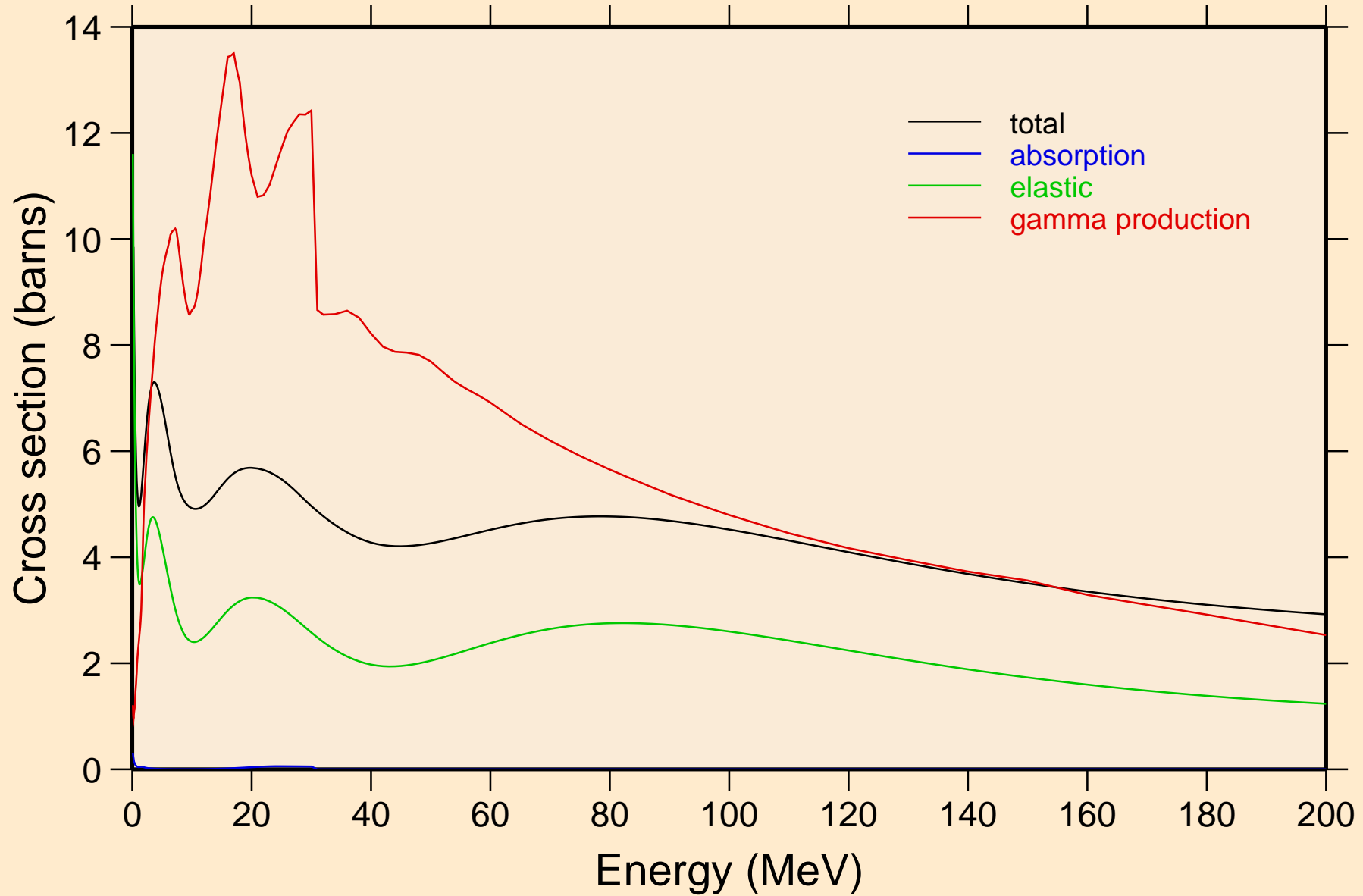


HG199 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Non-threshold reactions



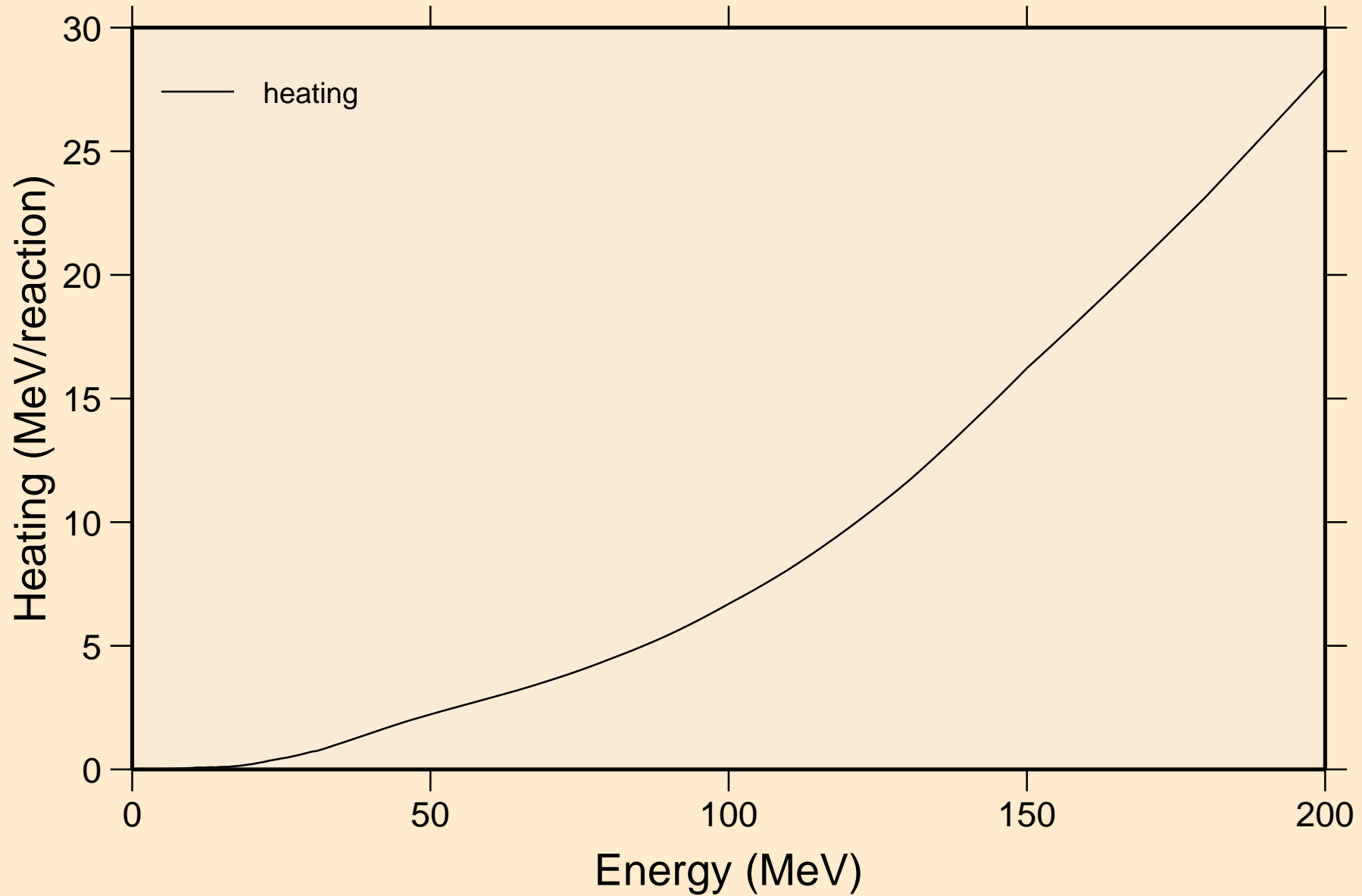
# HG199 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K

## Principal cross sections



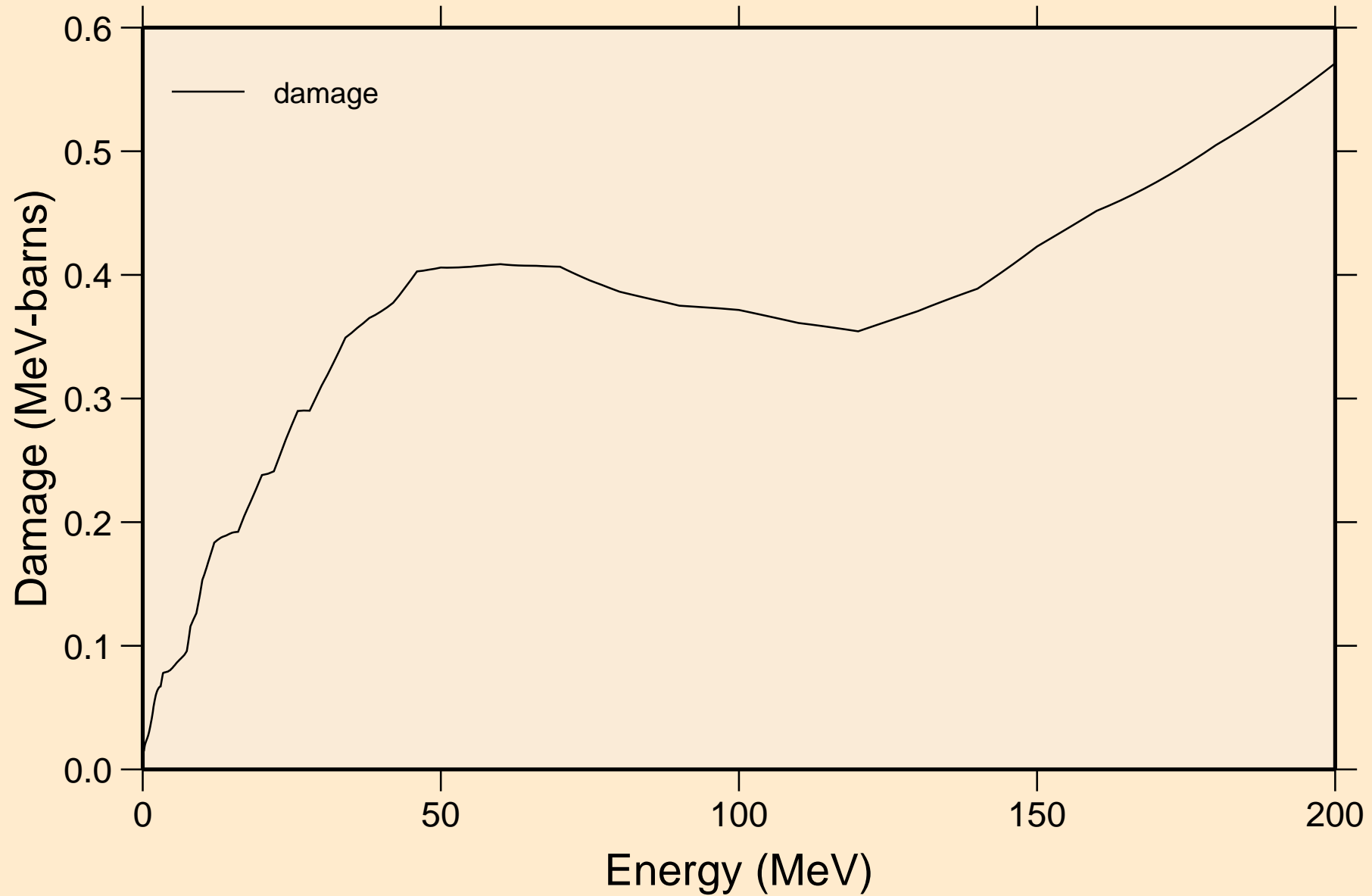
# HG199 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K

## Heating



# HG199 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K

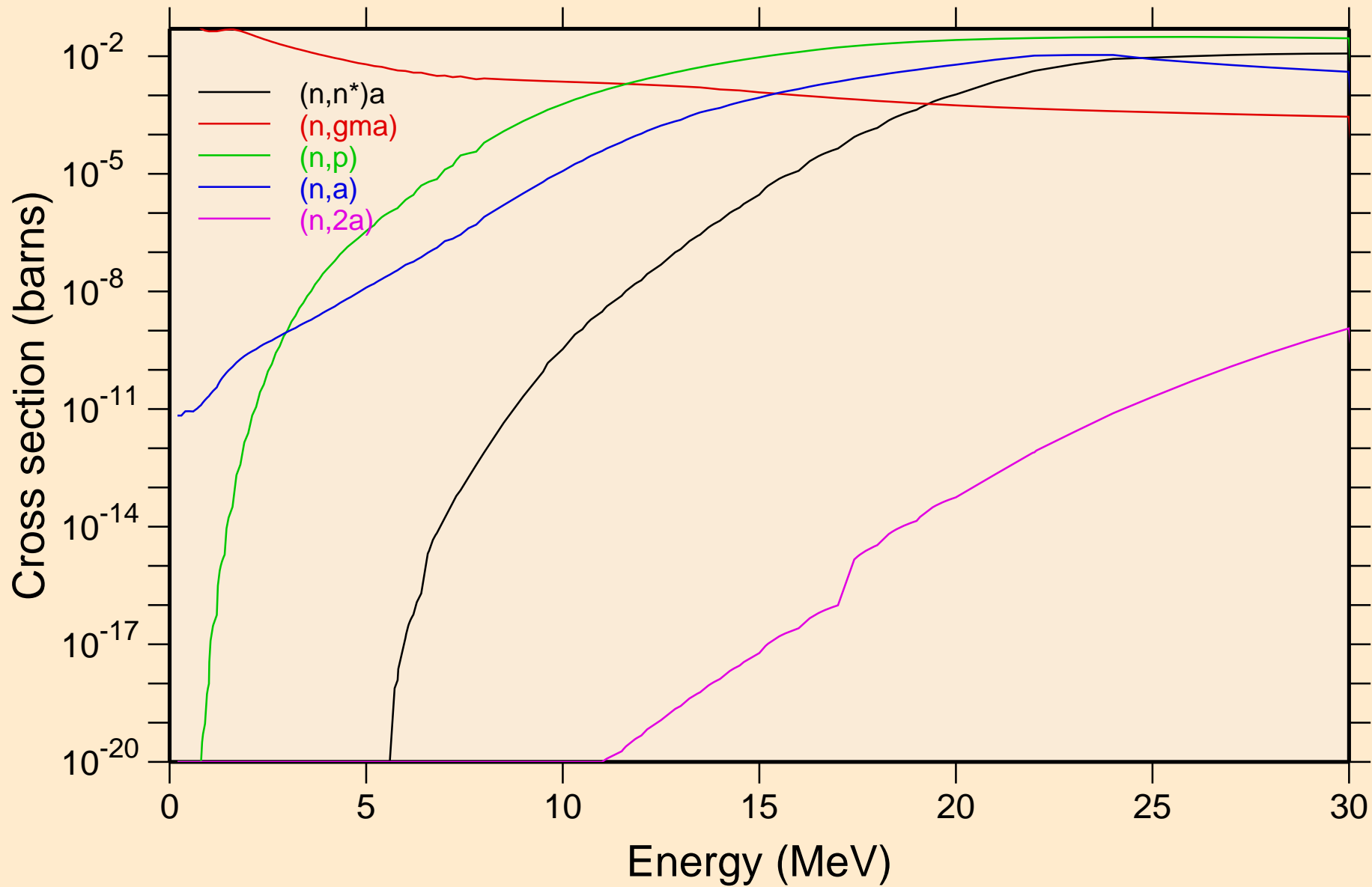
## Damage





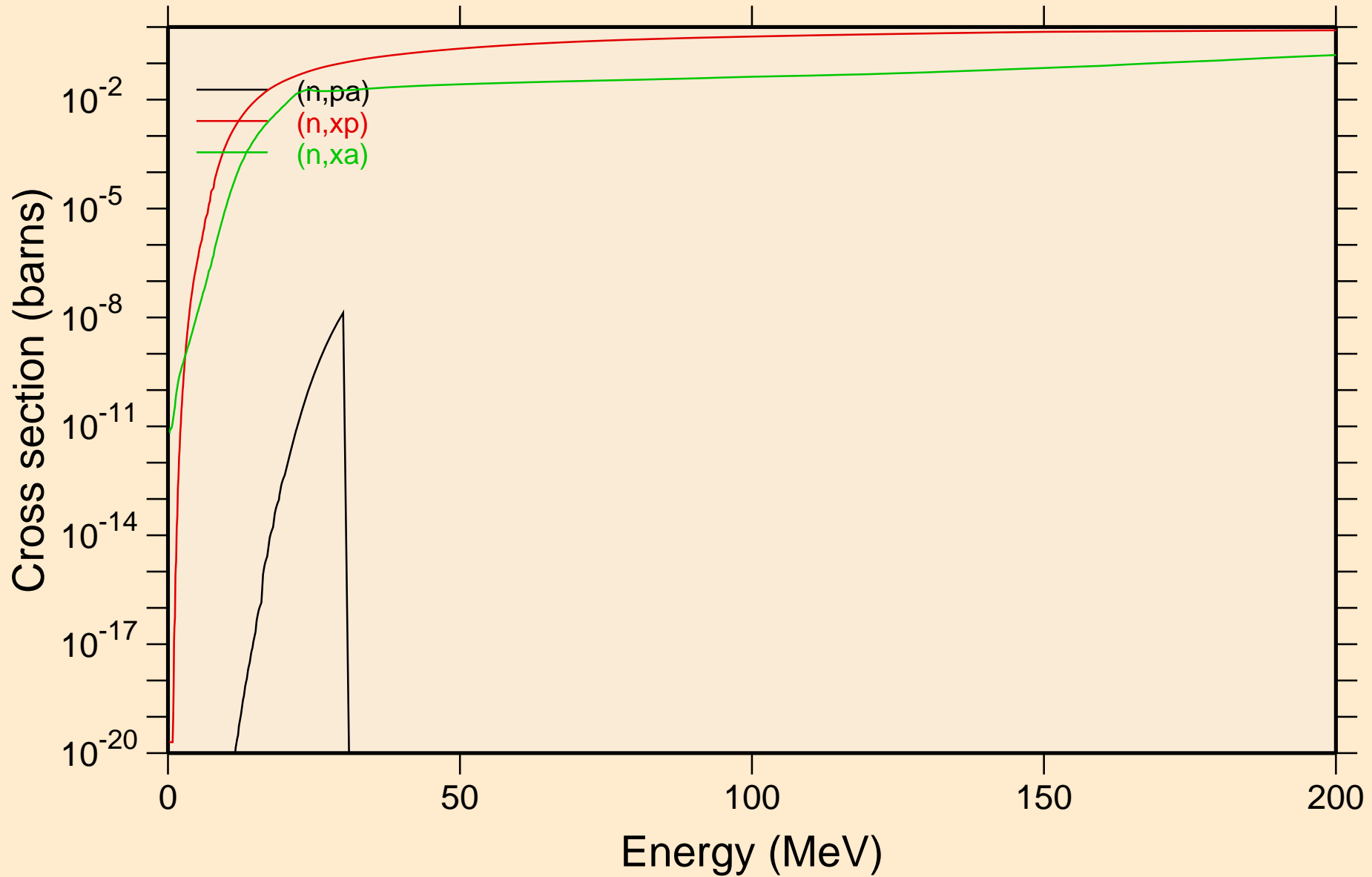
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## Non-threshold reactions



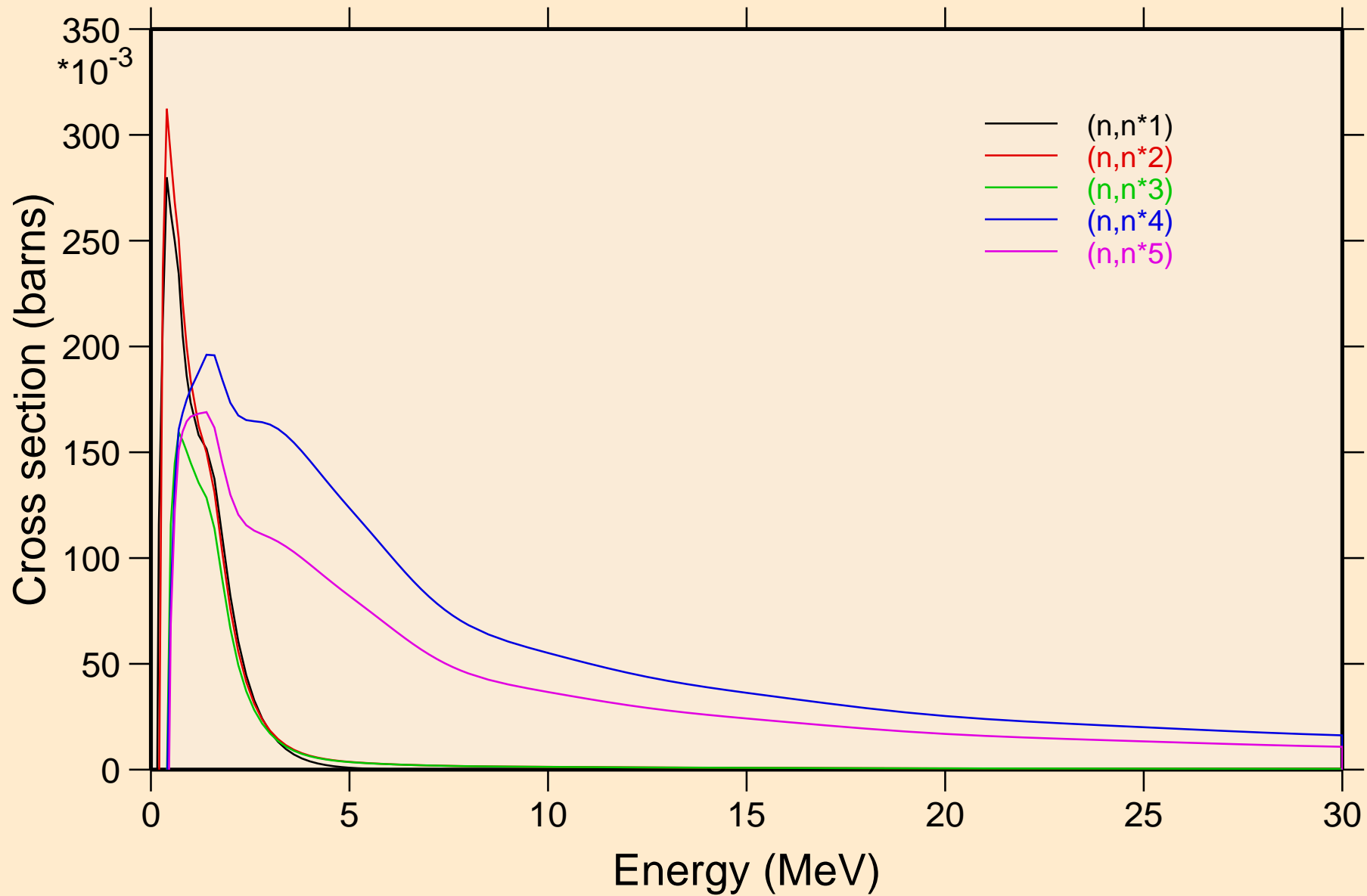
# HG199 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K

## Non-threshold reactions



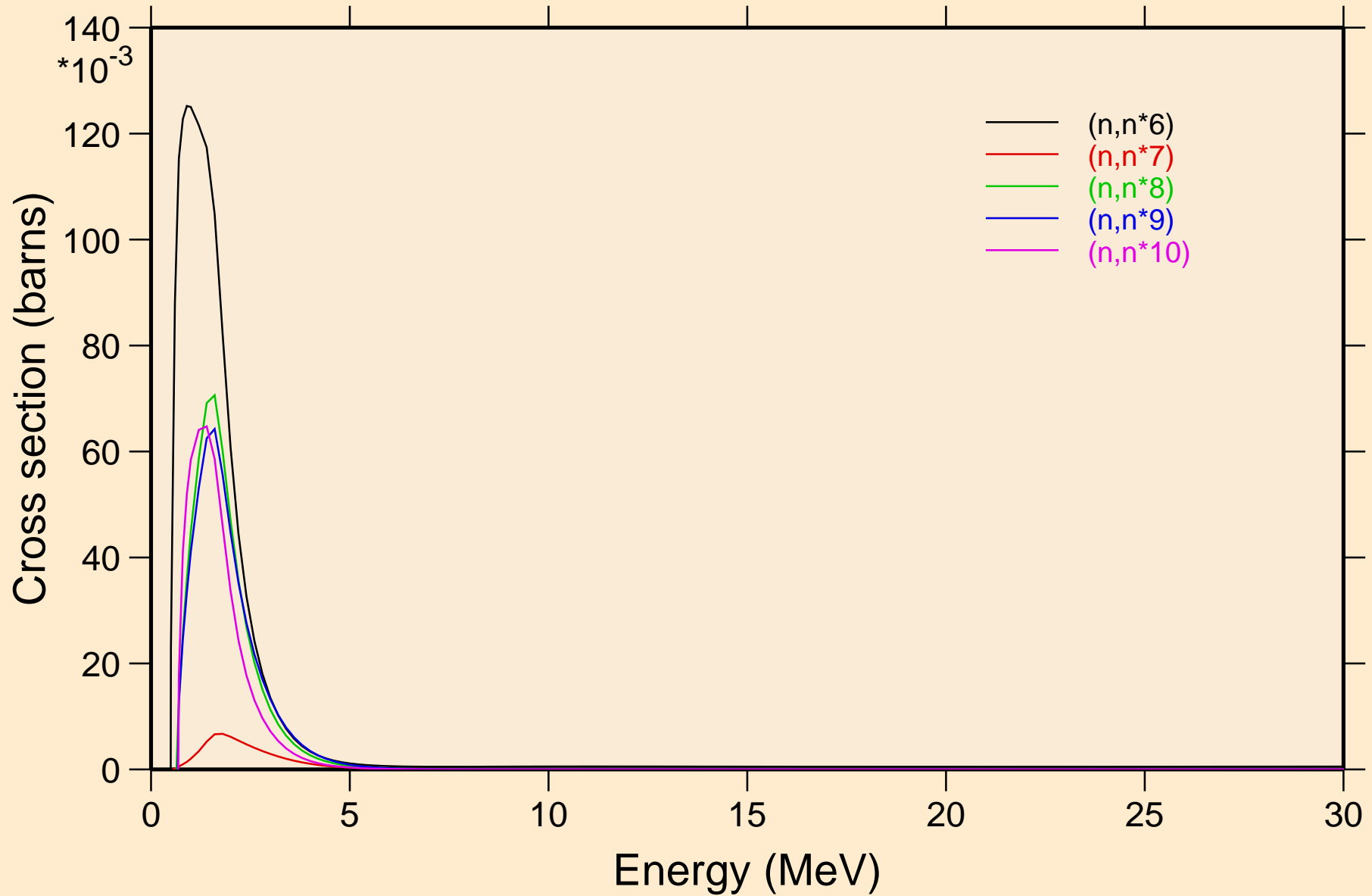
# HG199 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K

## Inelastic levels



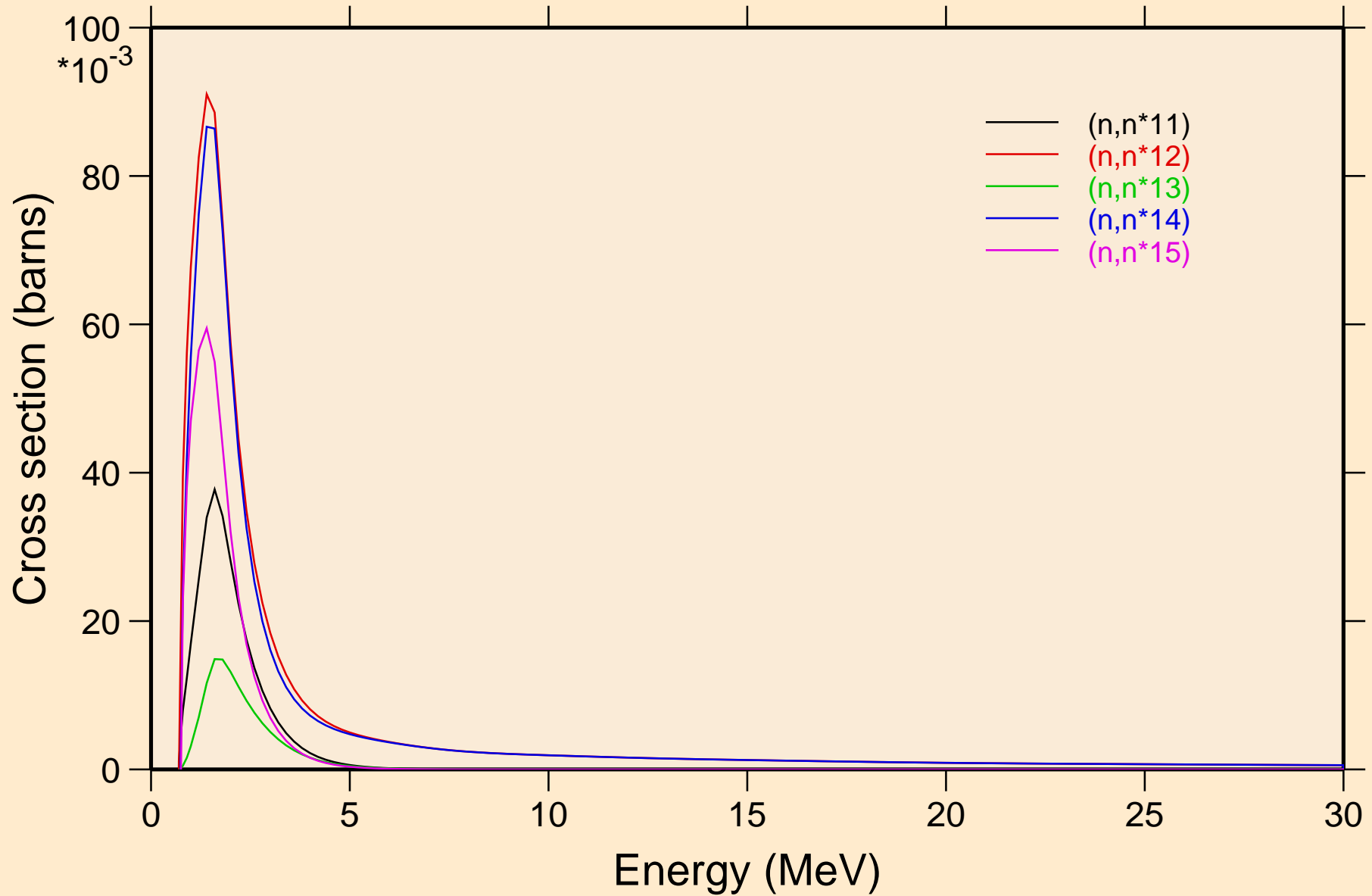
# HG199 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K

## Inelastic levels

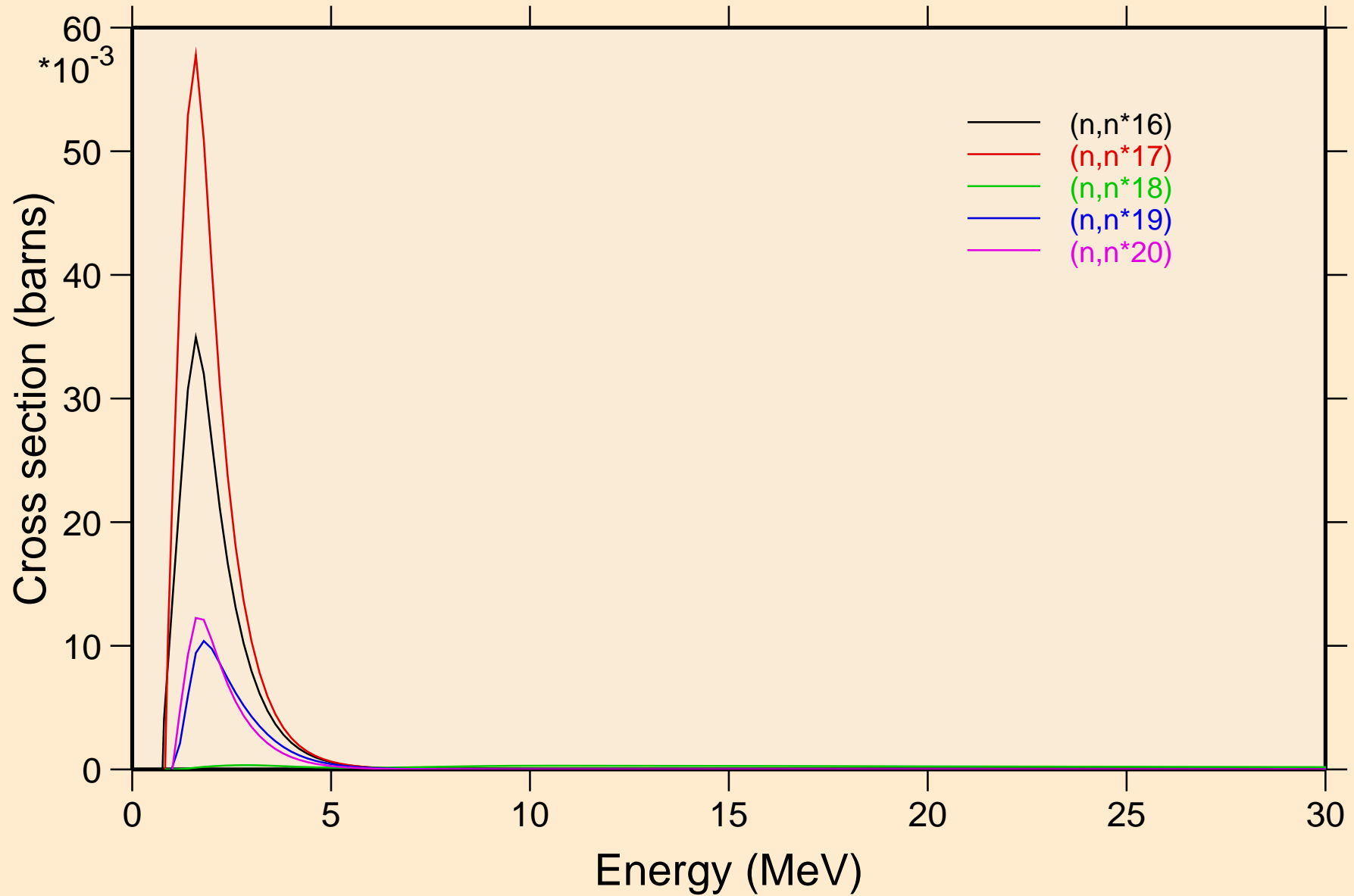


# HG199 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K

## Inelastic levels

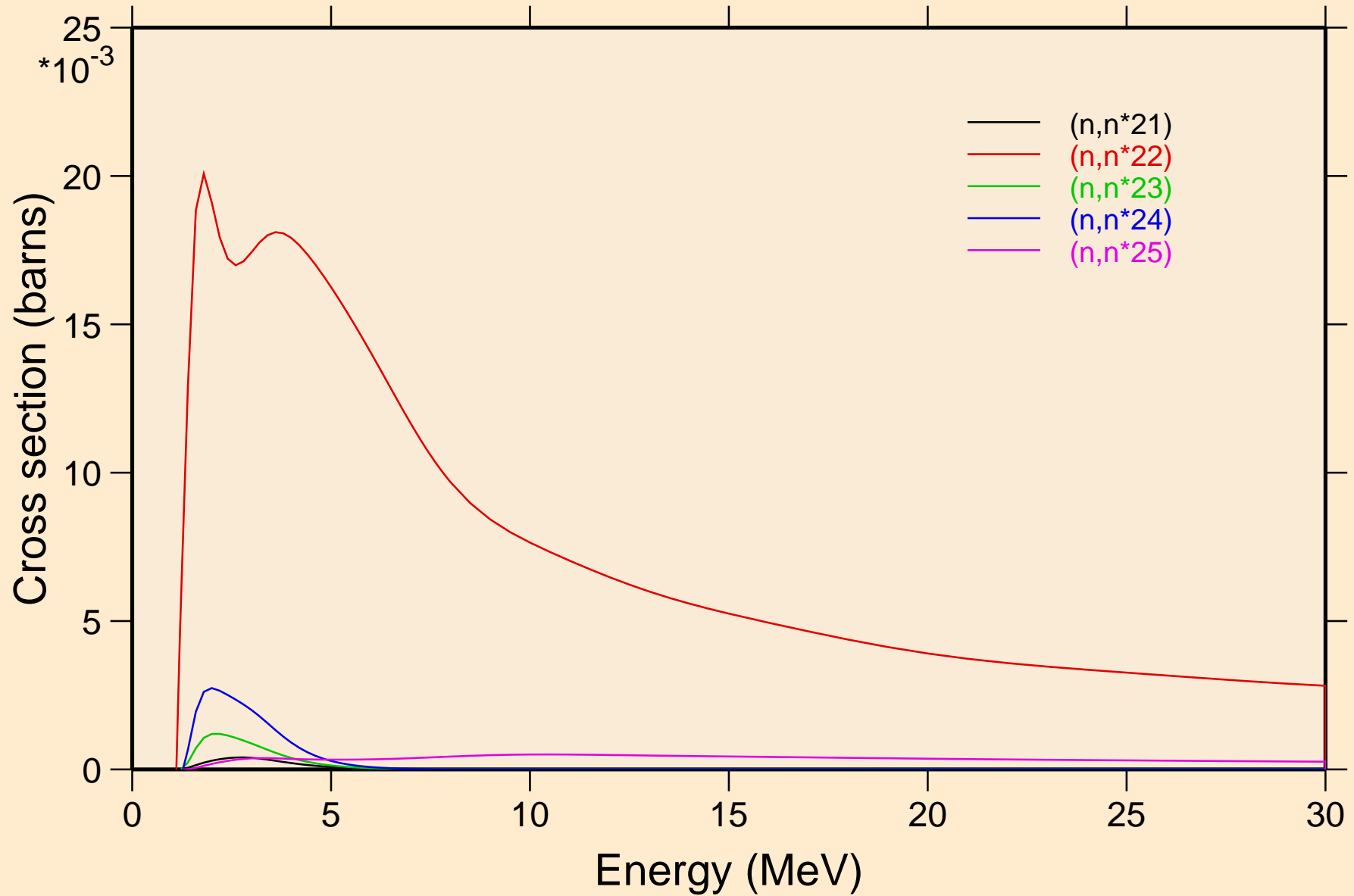


HG199 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Inelastic levels

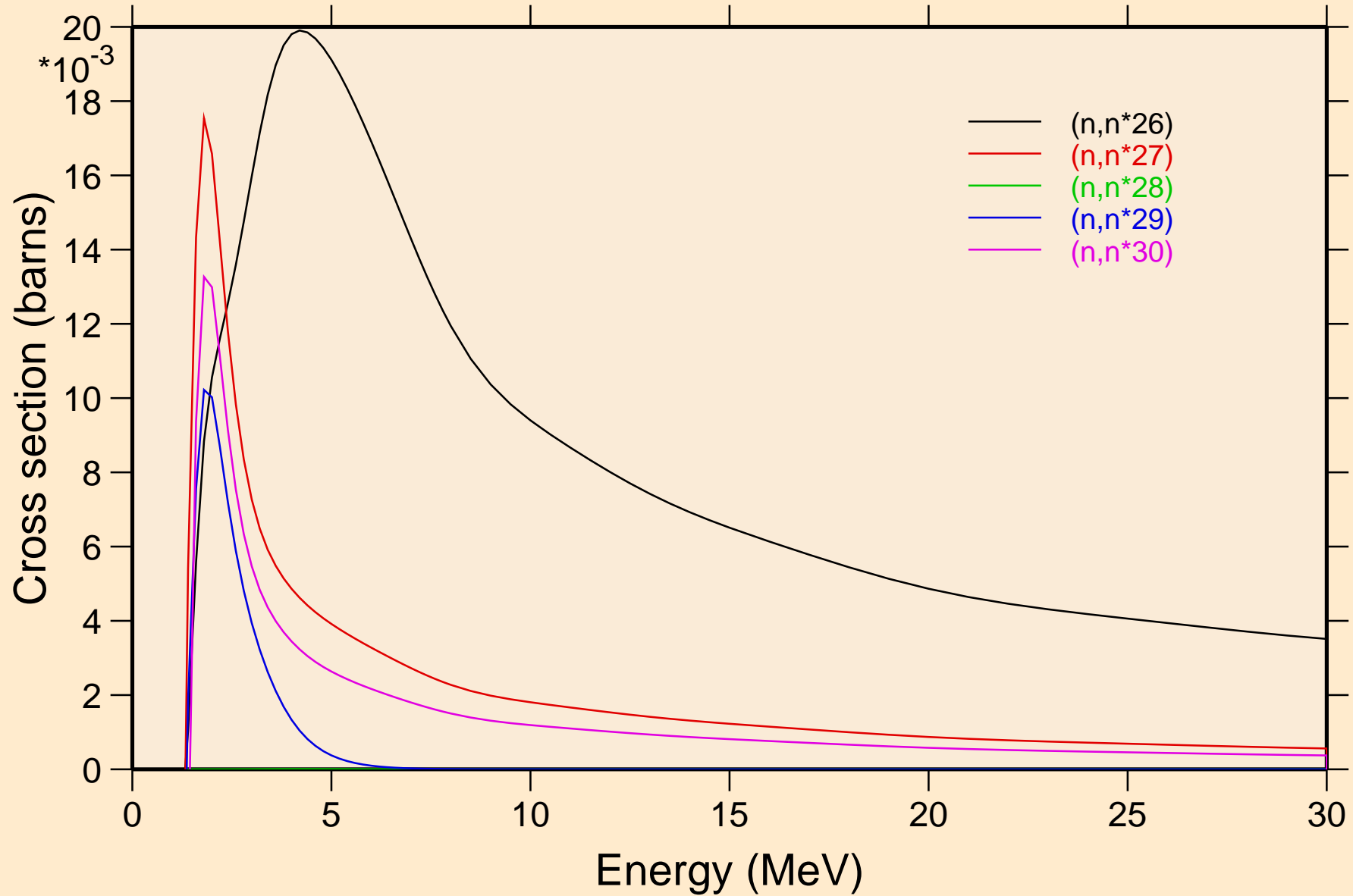


# HG199 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K

## Inelastic levels



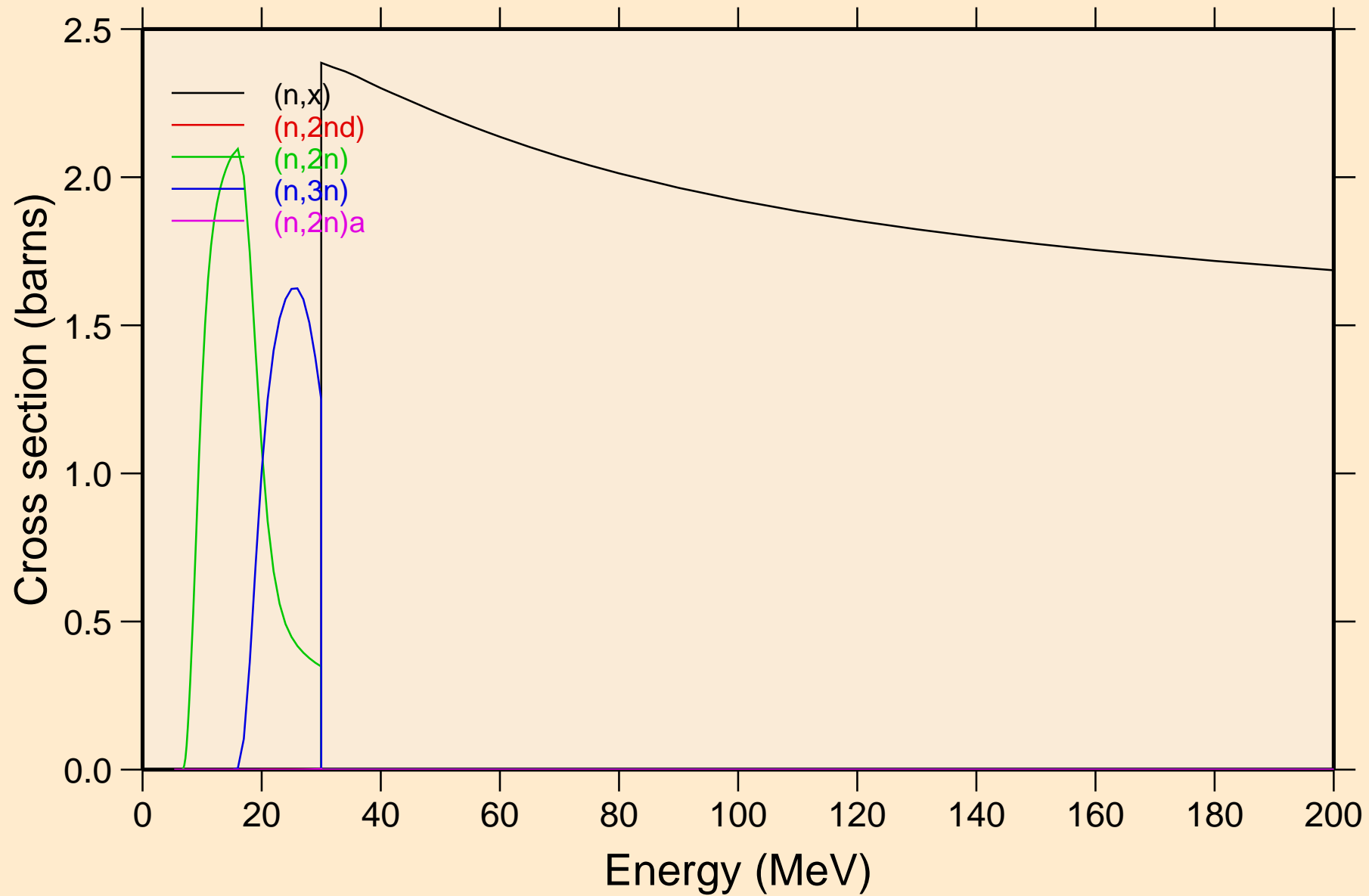
HG199 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Inelastic levels





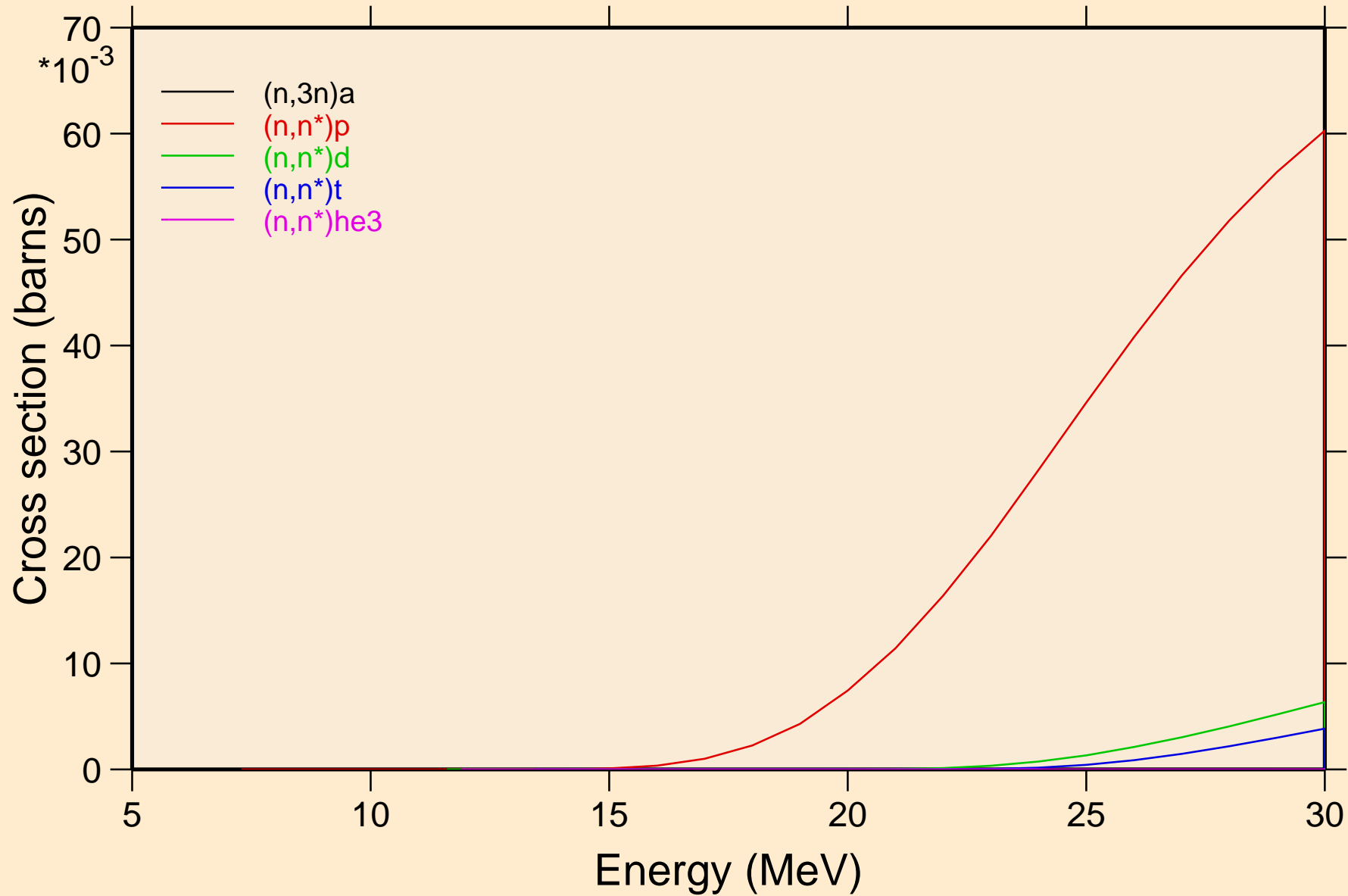
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## Threshold reactions



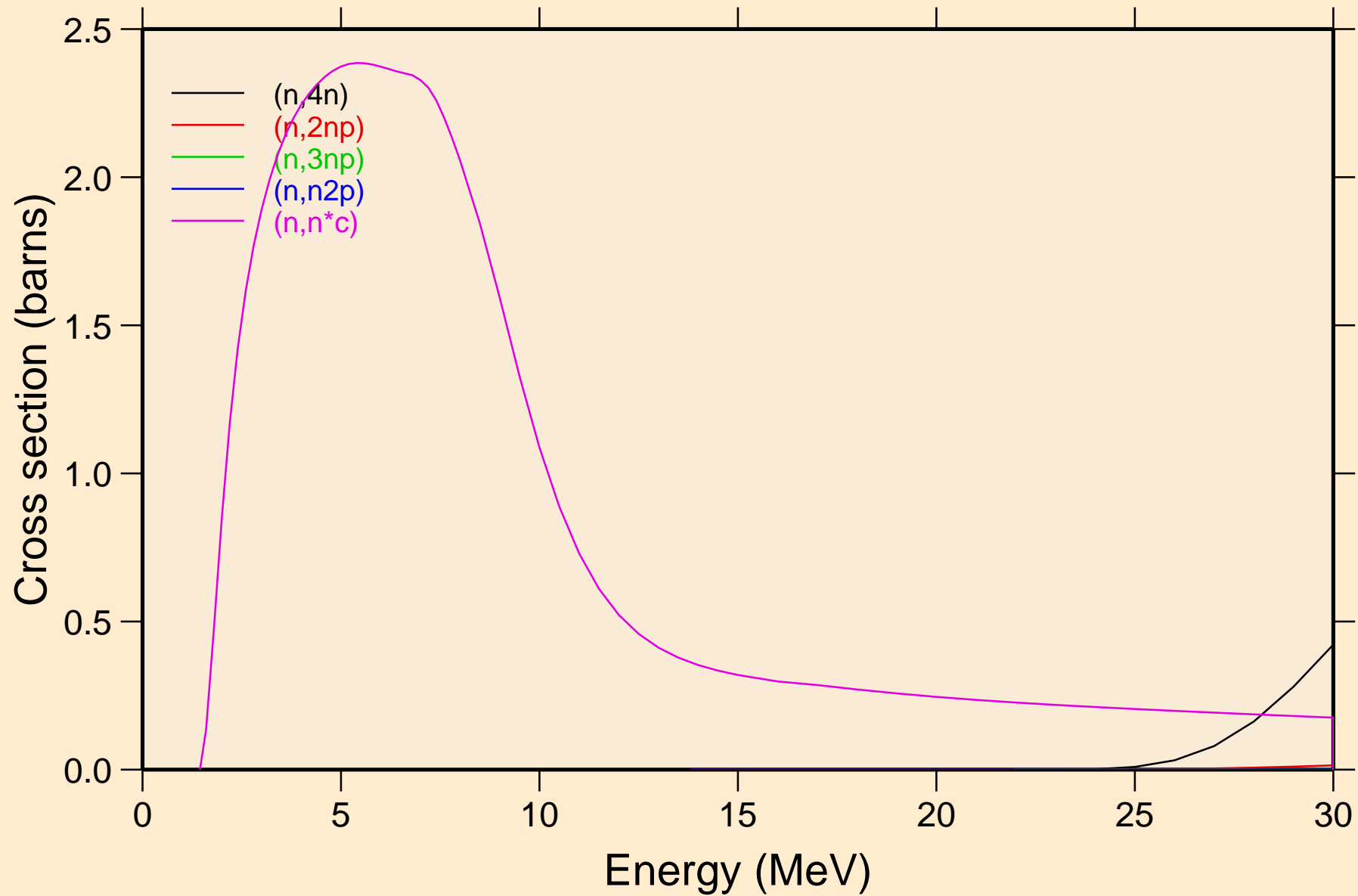
# HG199 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K

## Threshold reactions



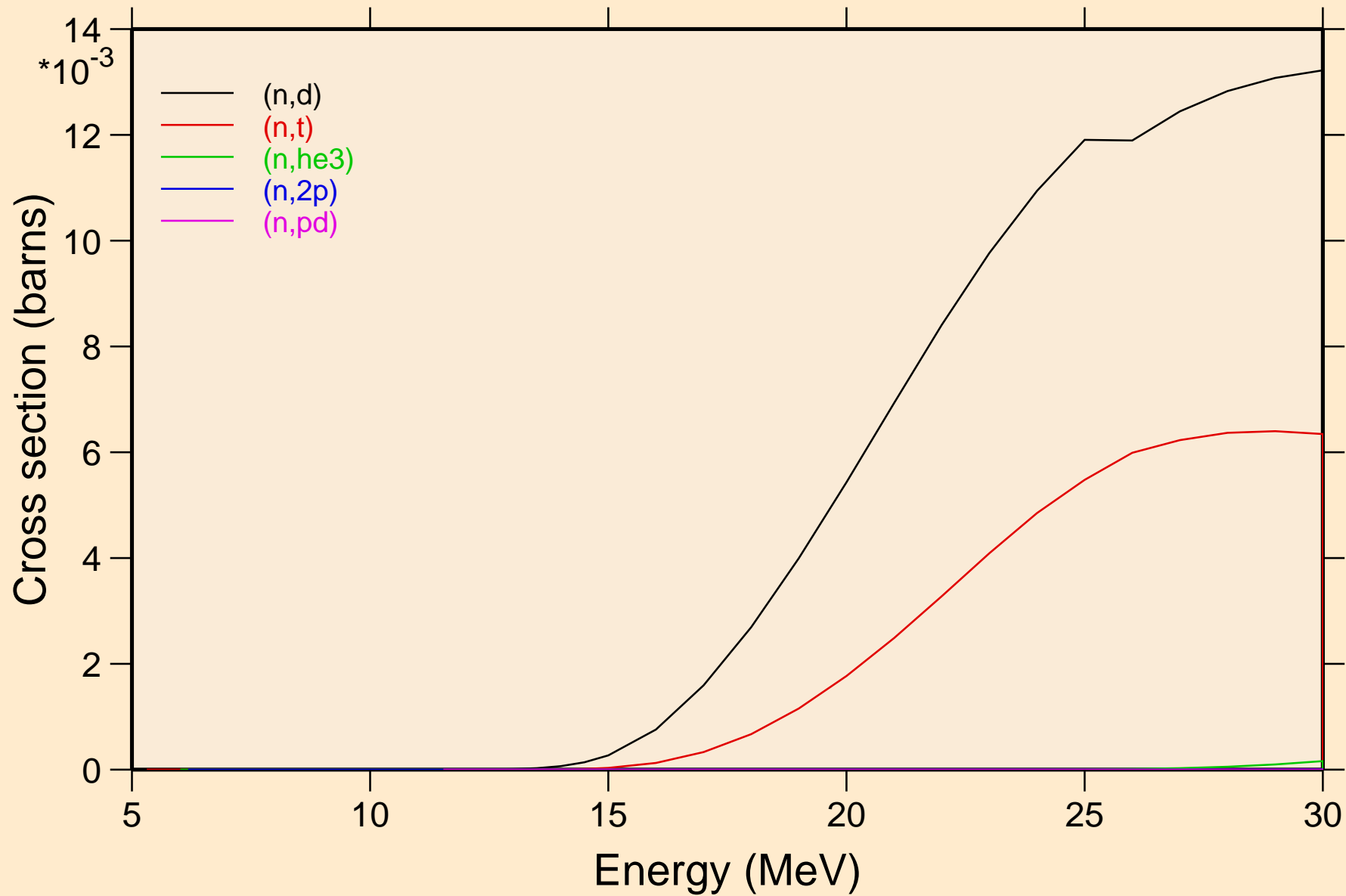
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## Threshold reactions

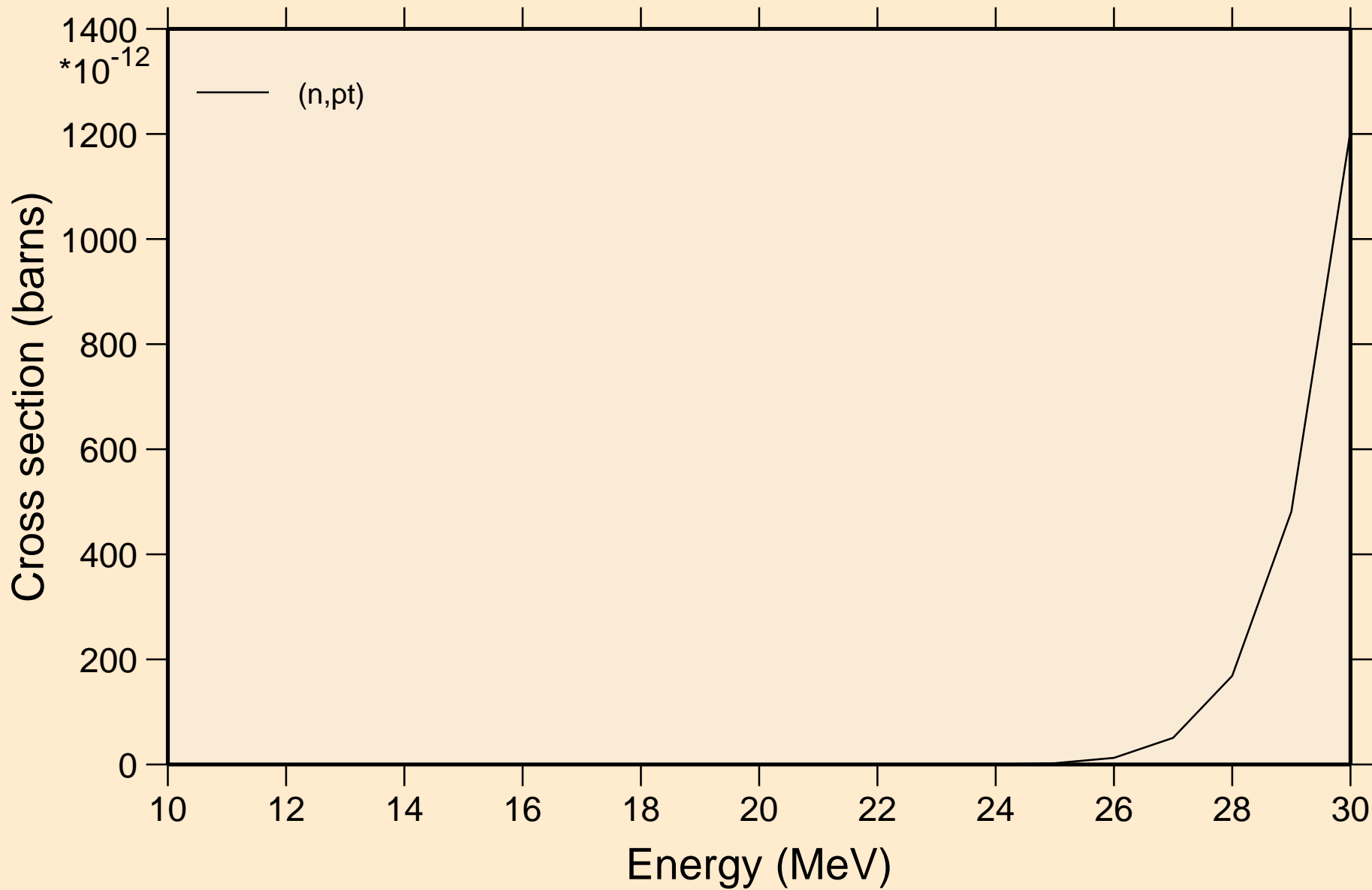


# HG199 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K

## Threshold reactions

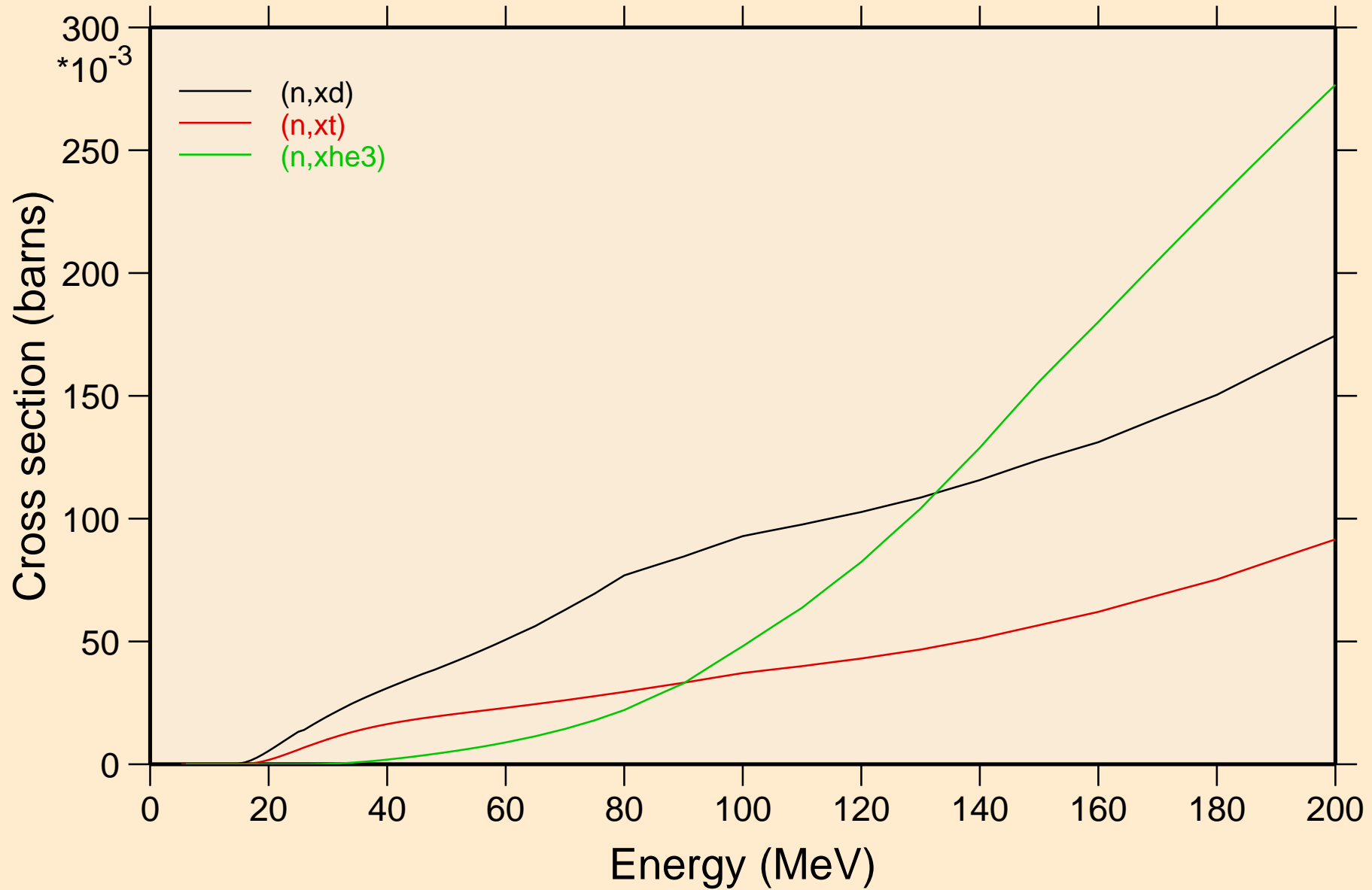


HG199 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Threshold reactions

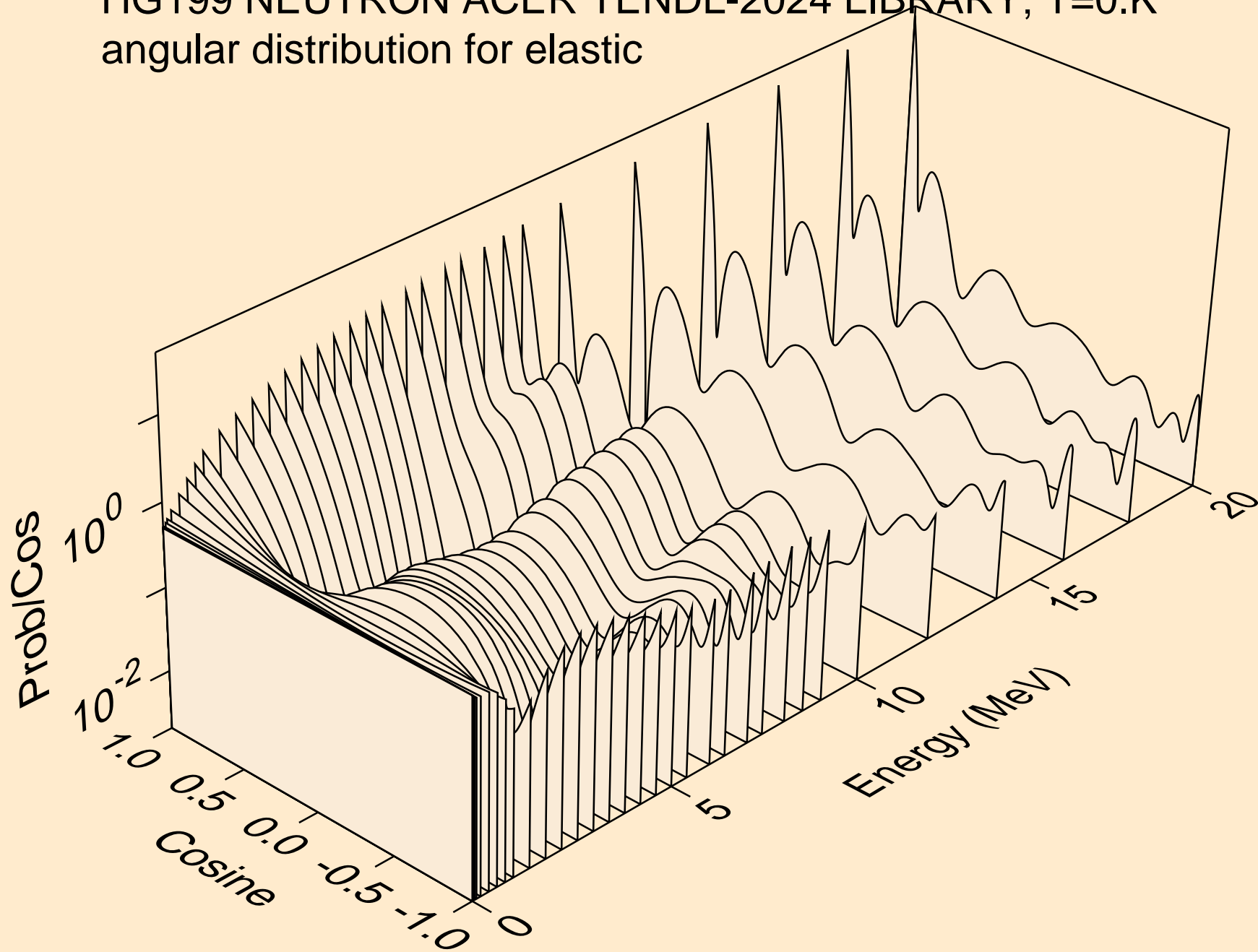


# HG199 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K

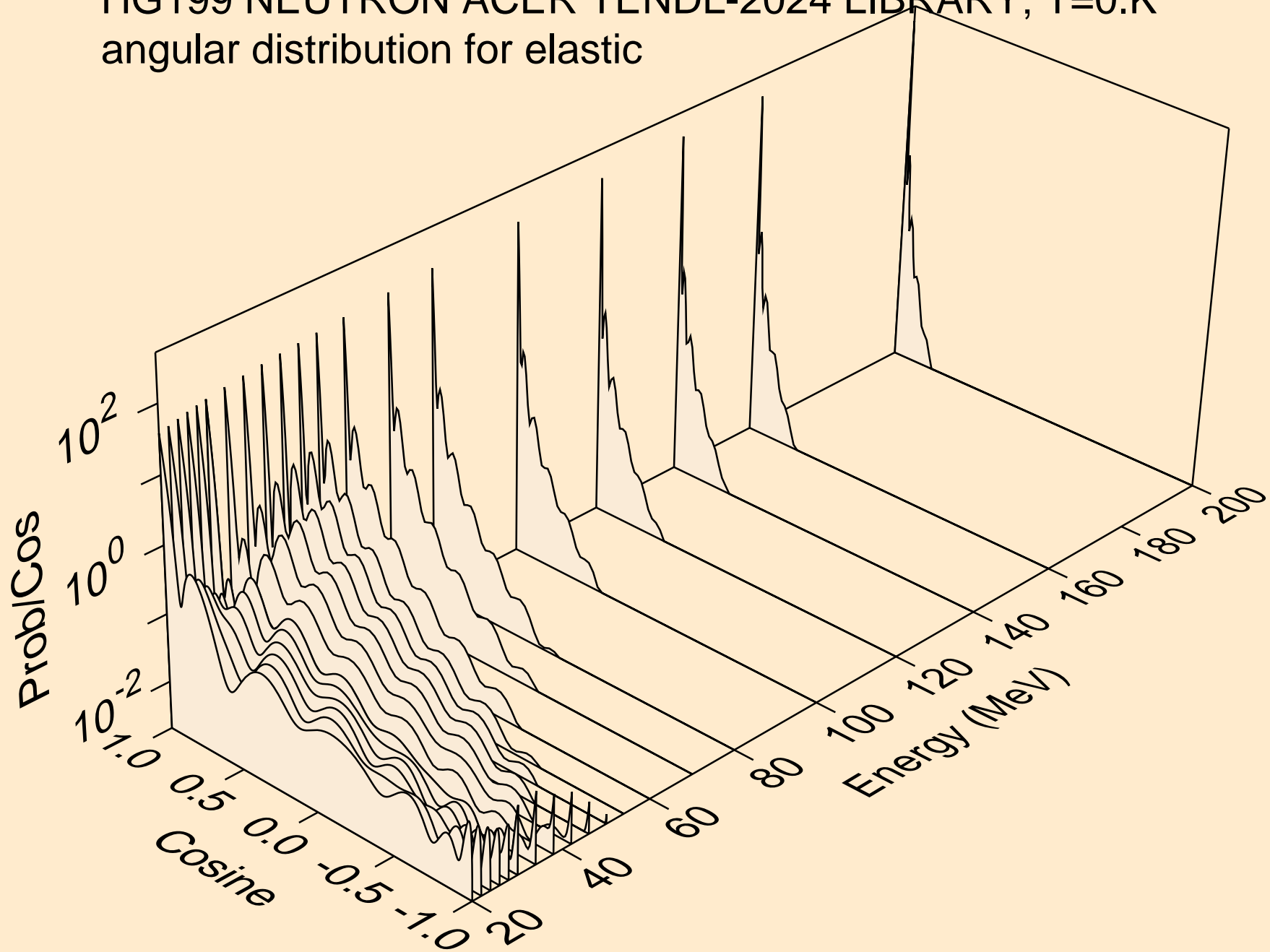
## Threshold reactions



HG199 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for elastic

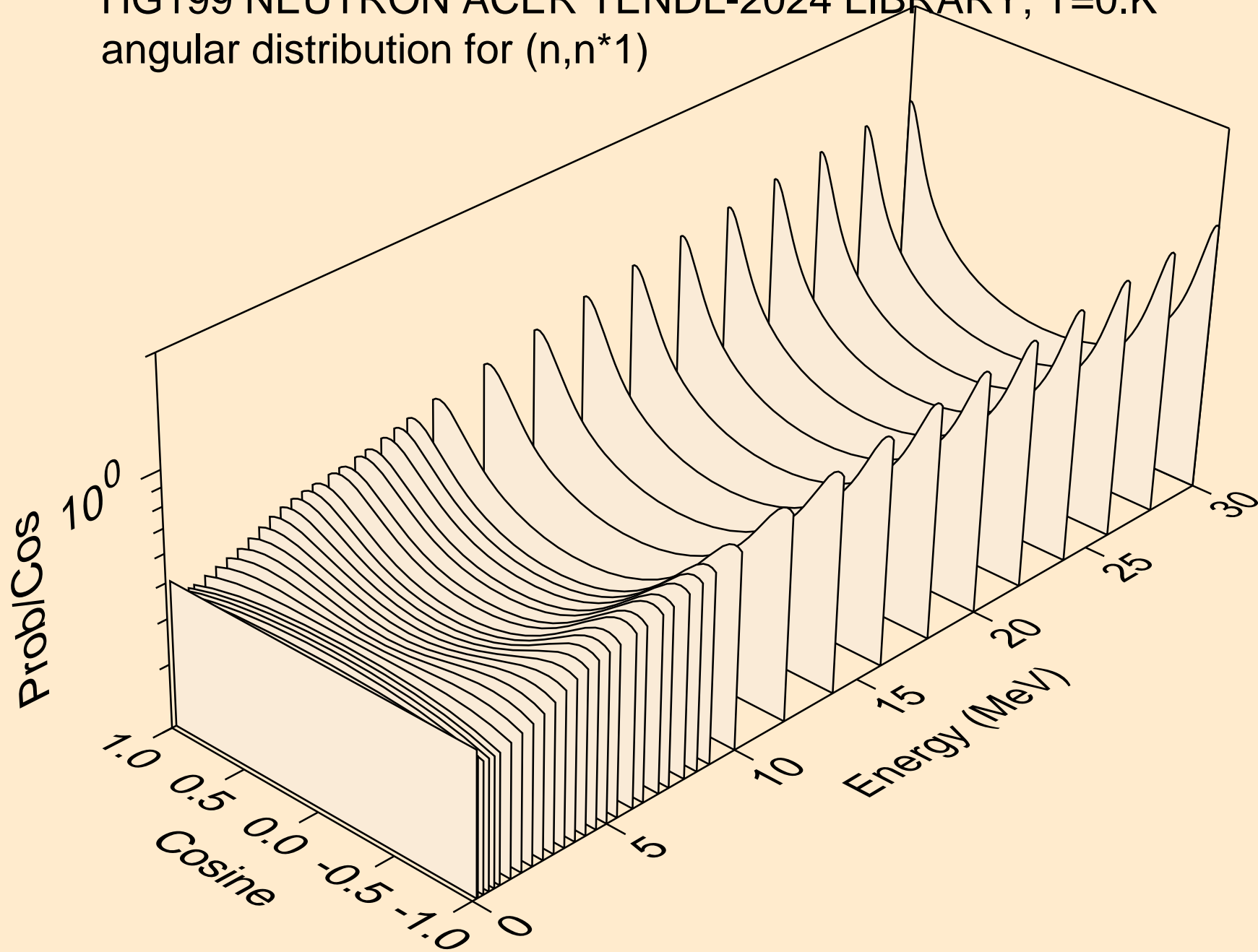


HG199 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for elastic

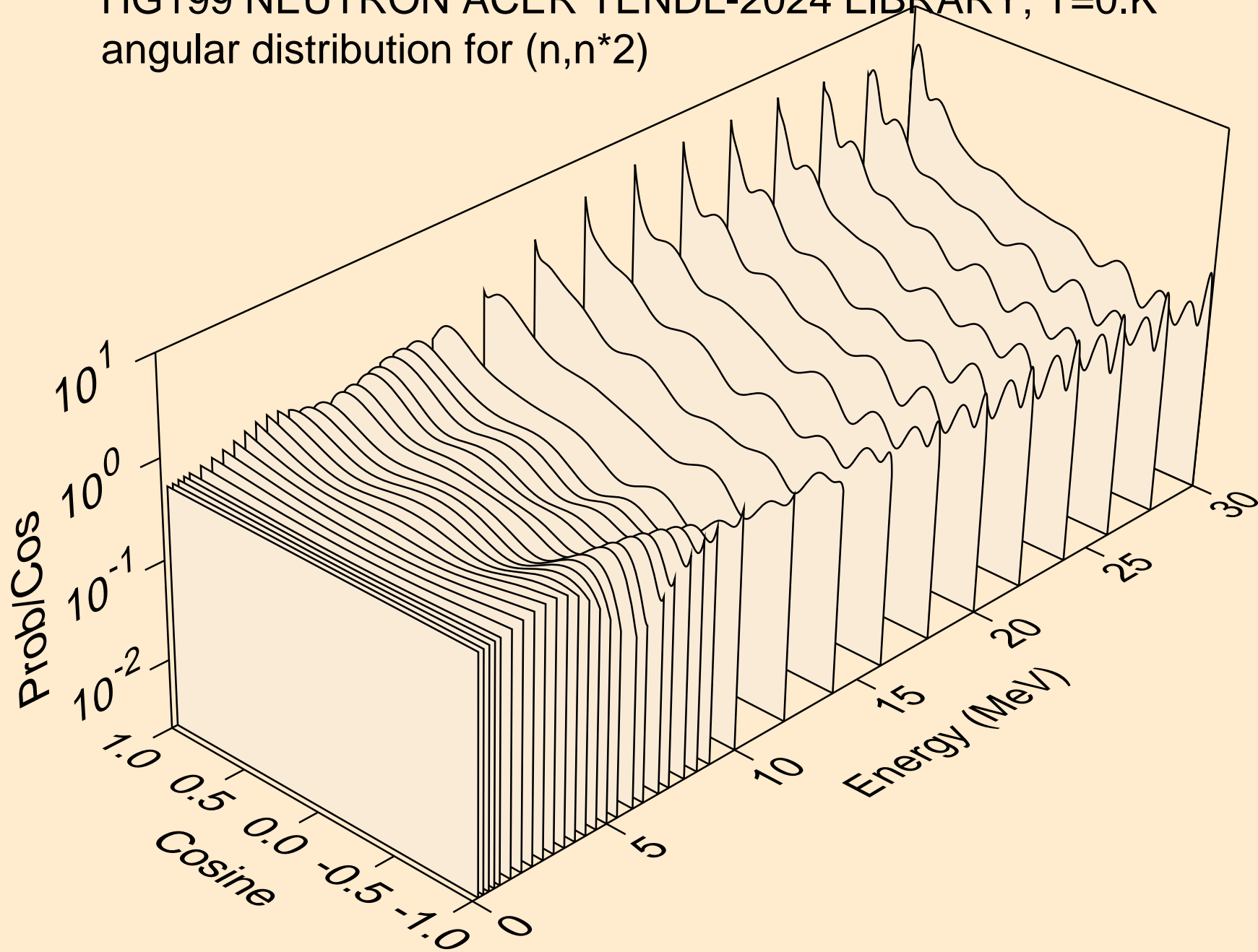




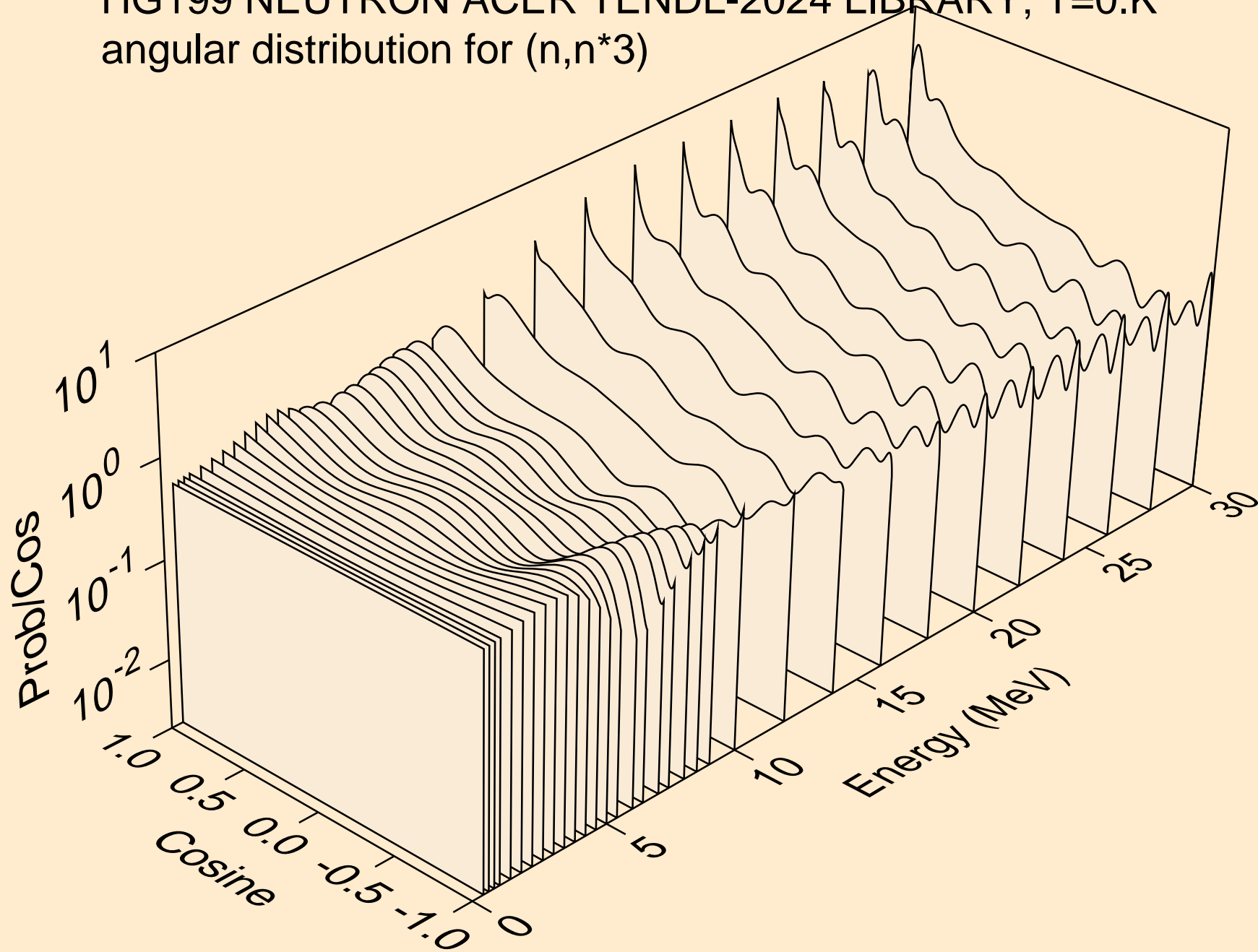
HG199 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*1)



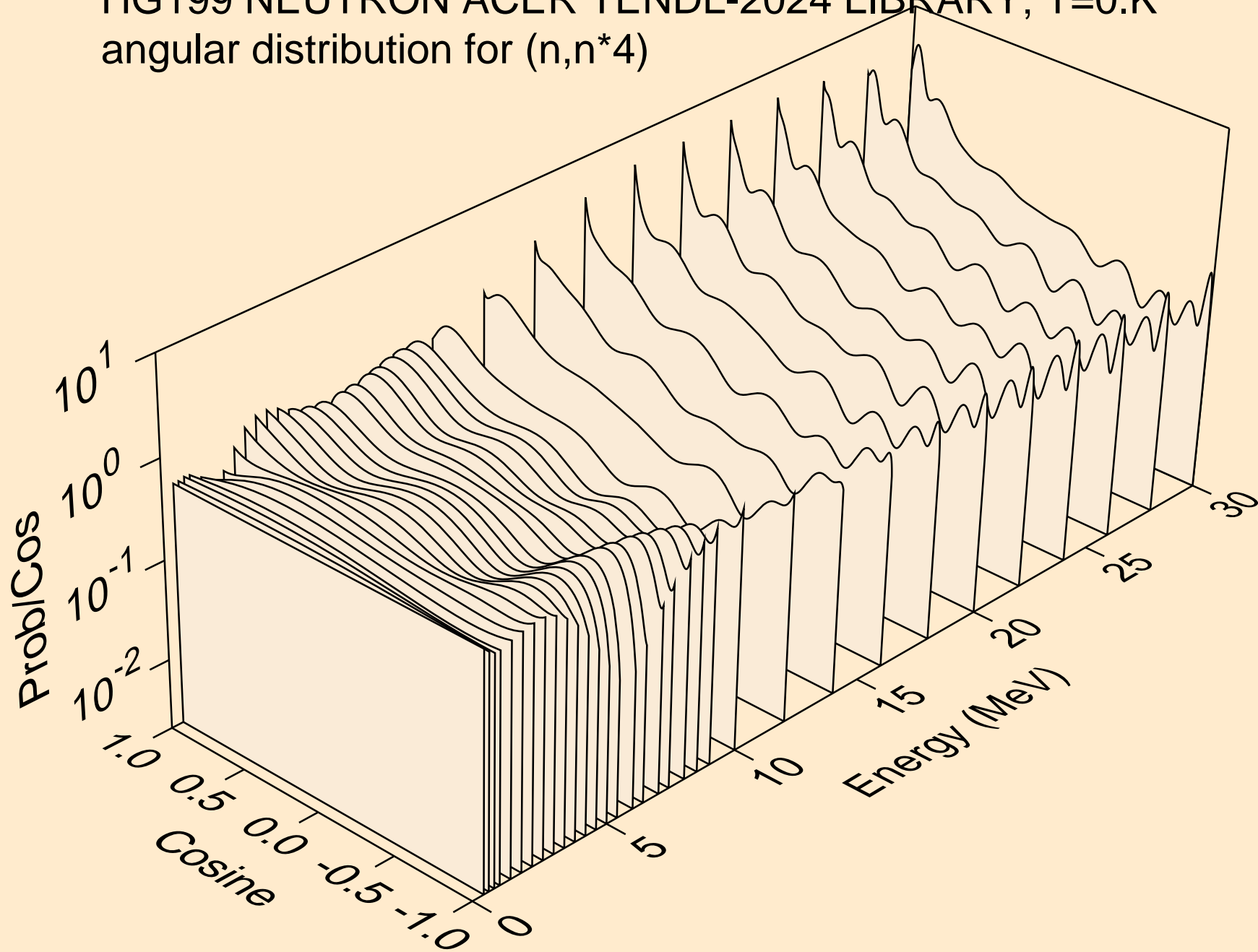
HG199 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*2)



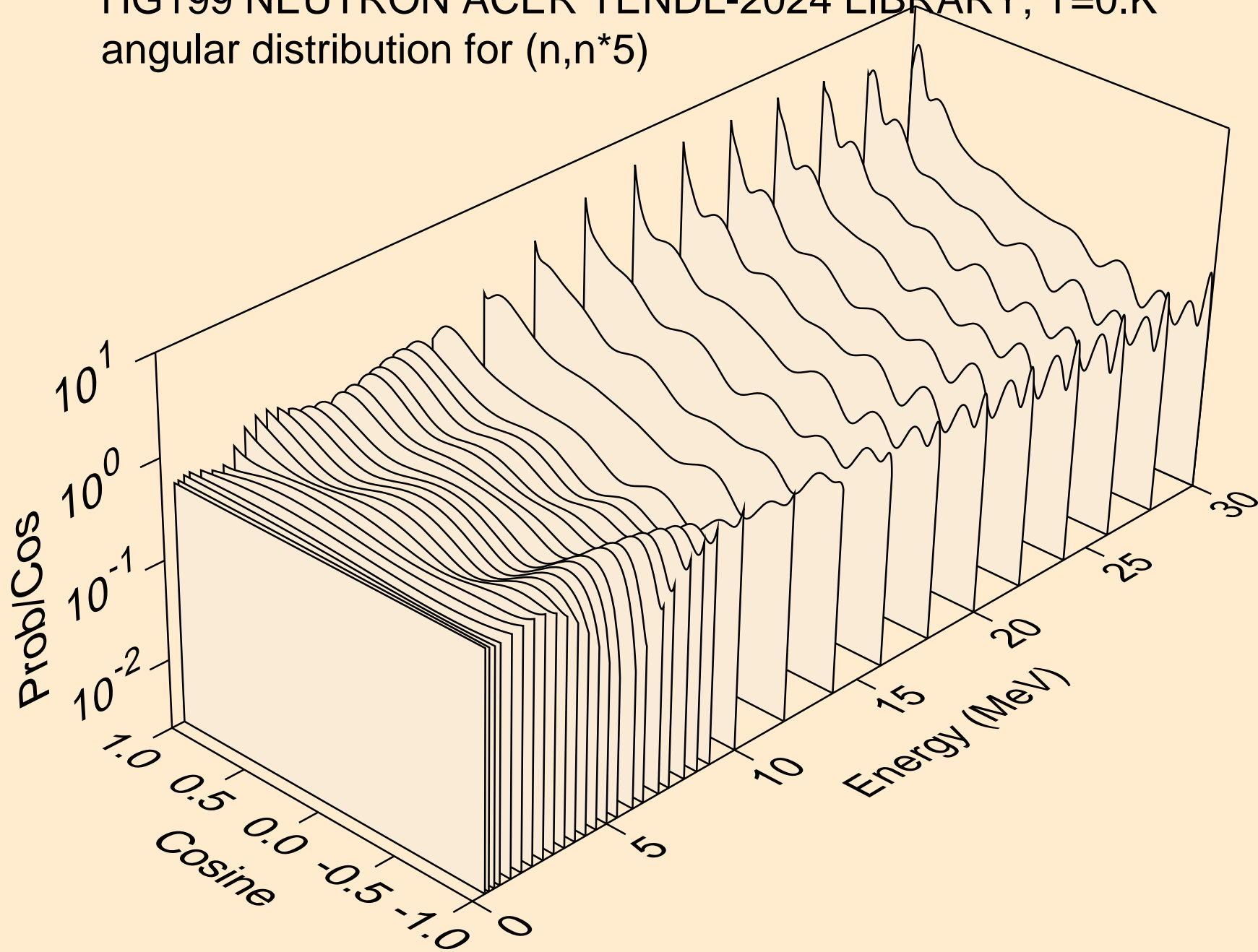
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angular distribution for (n,n\*3)



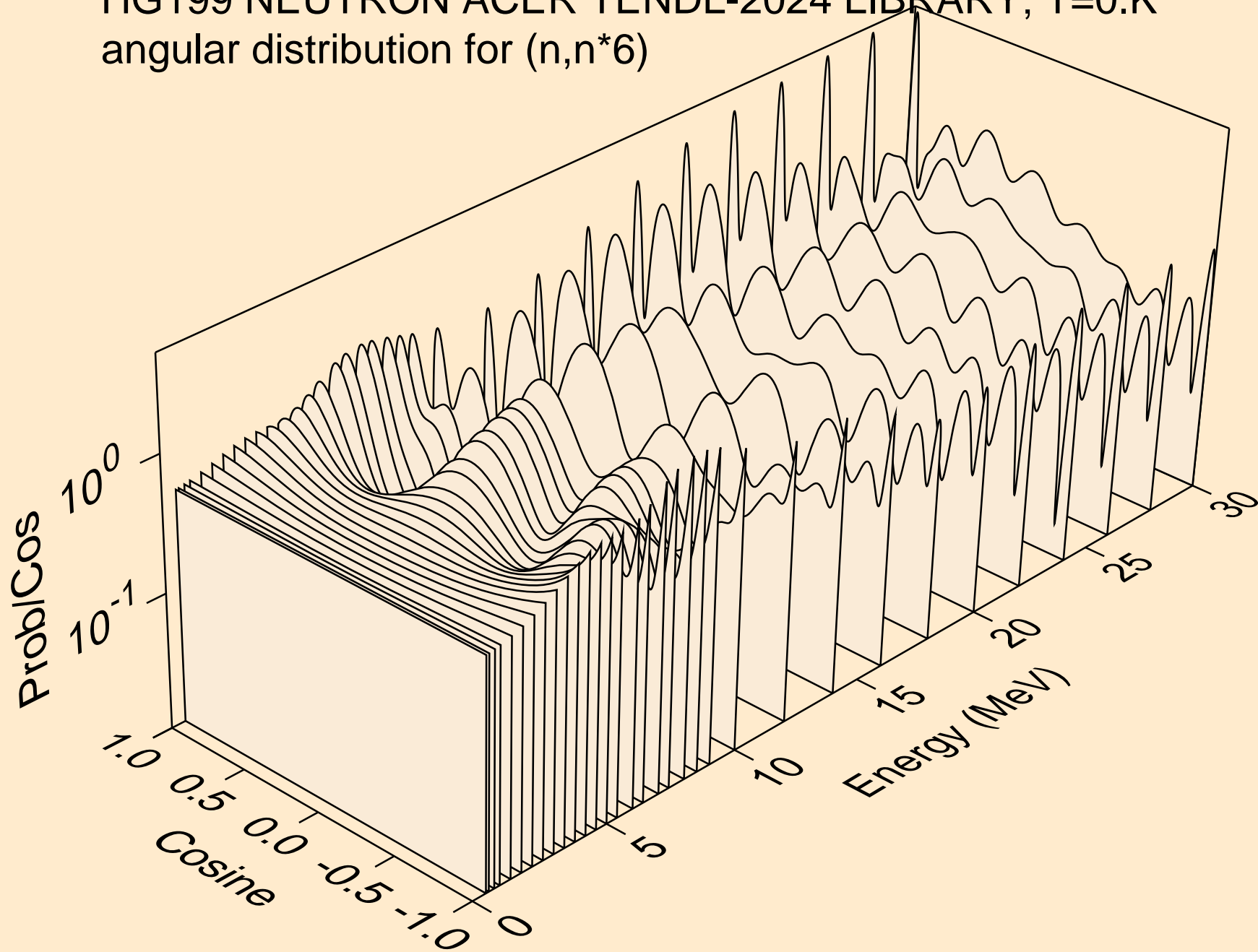
HG199 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*4)



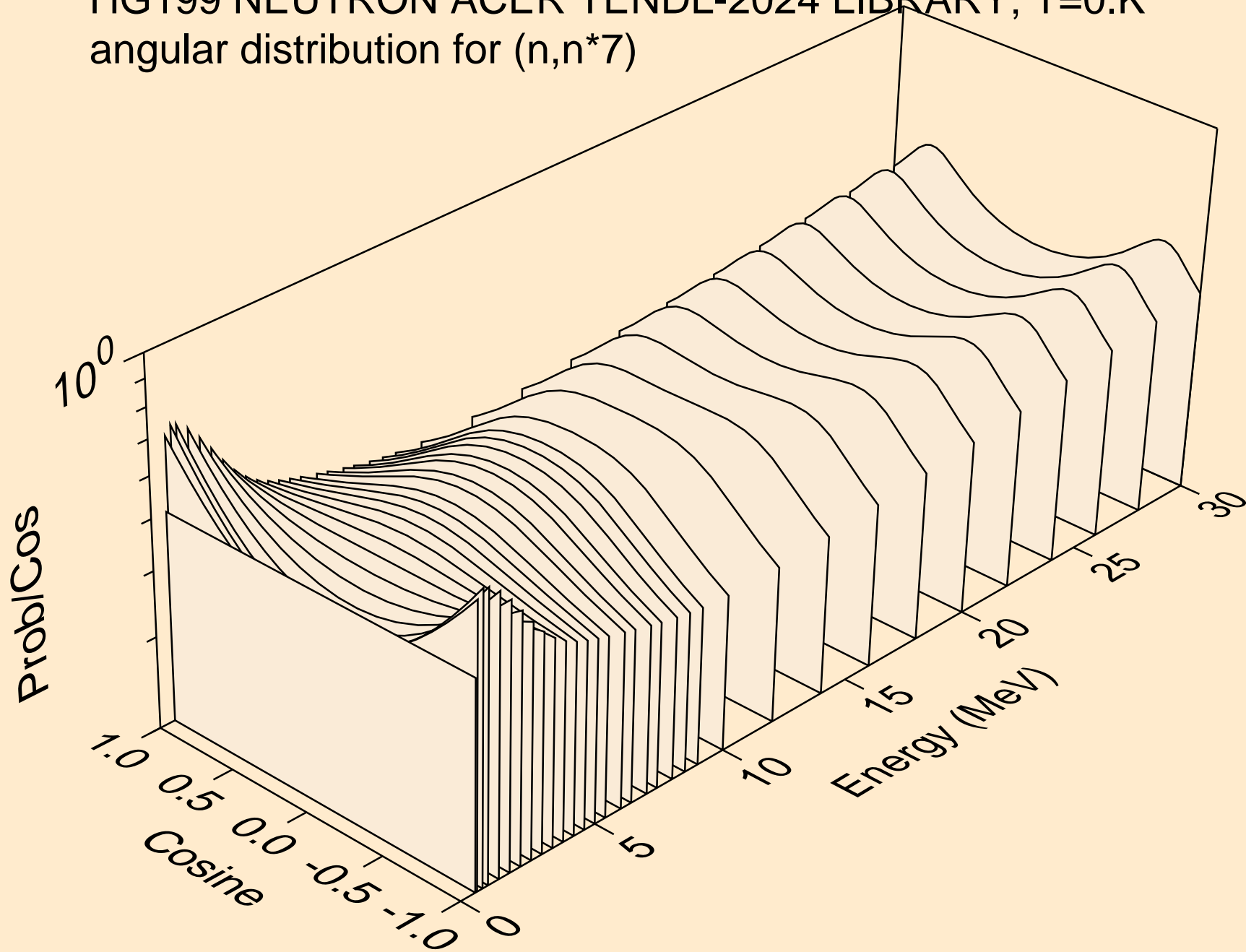
HG199 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*5)



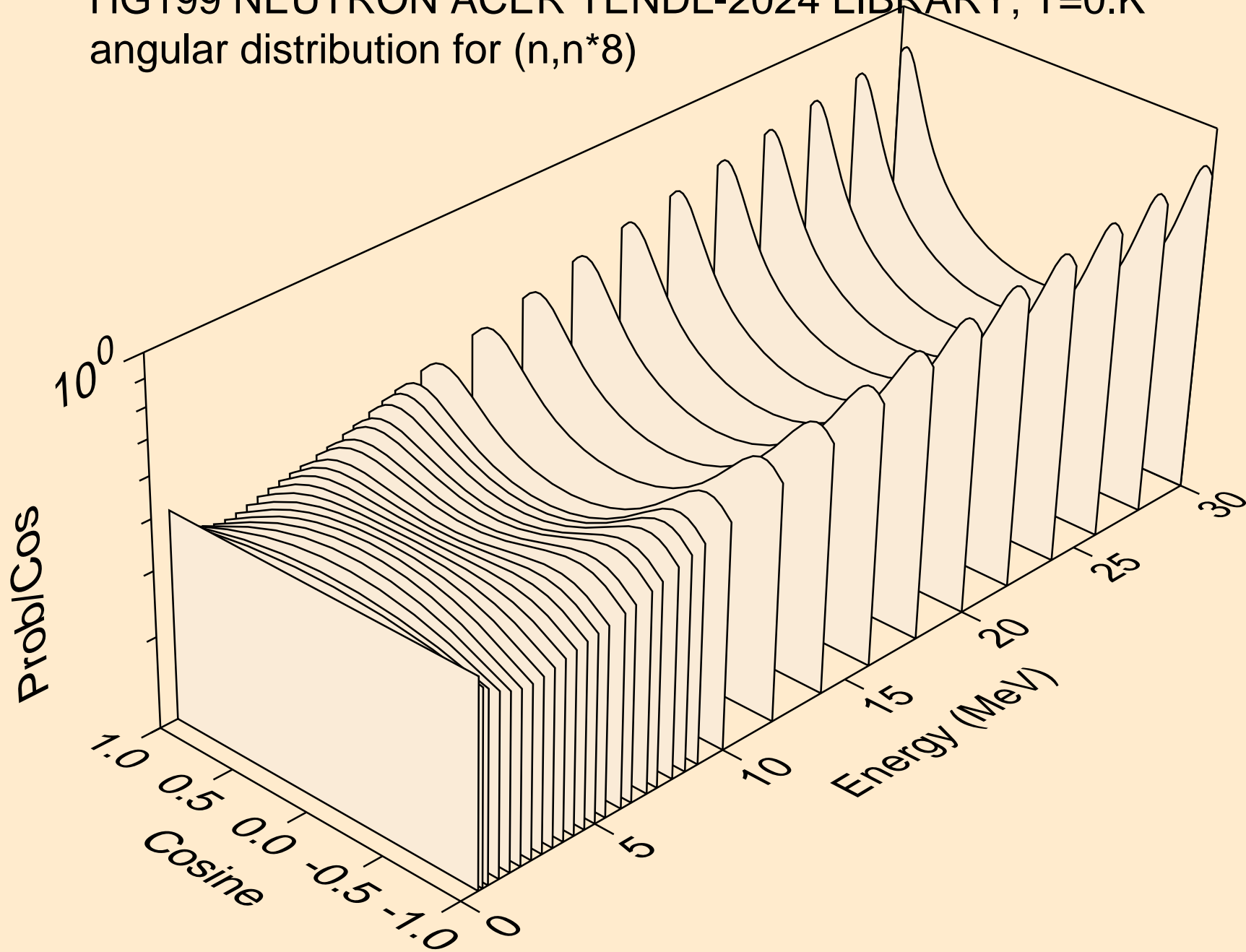
HG199 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*6)



HG199 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*7)

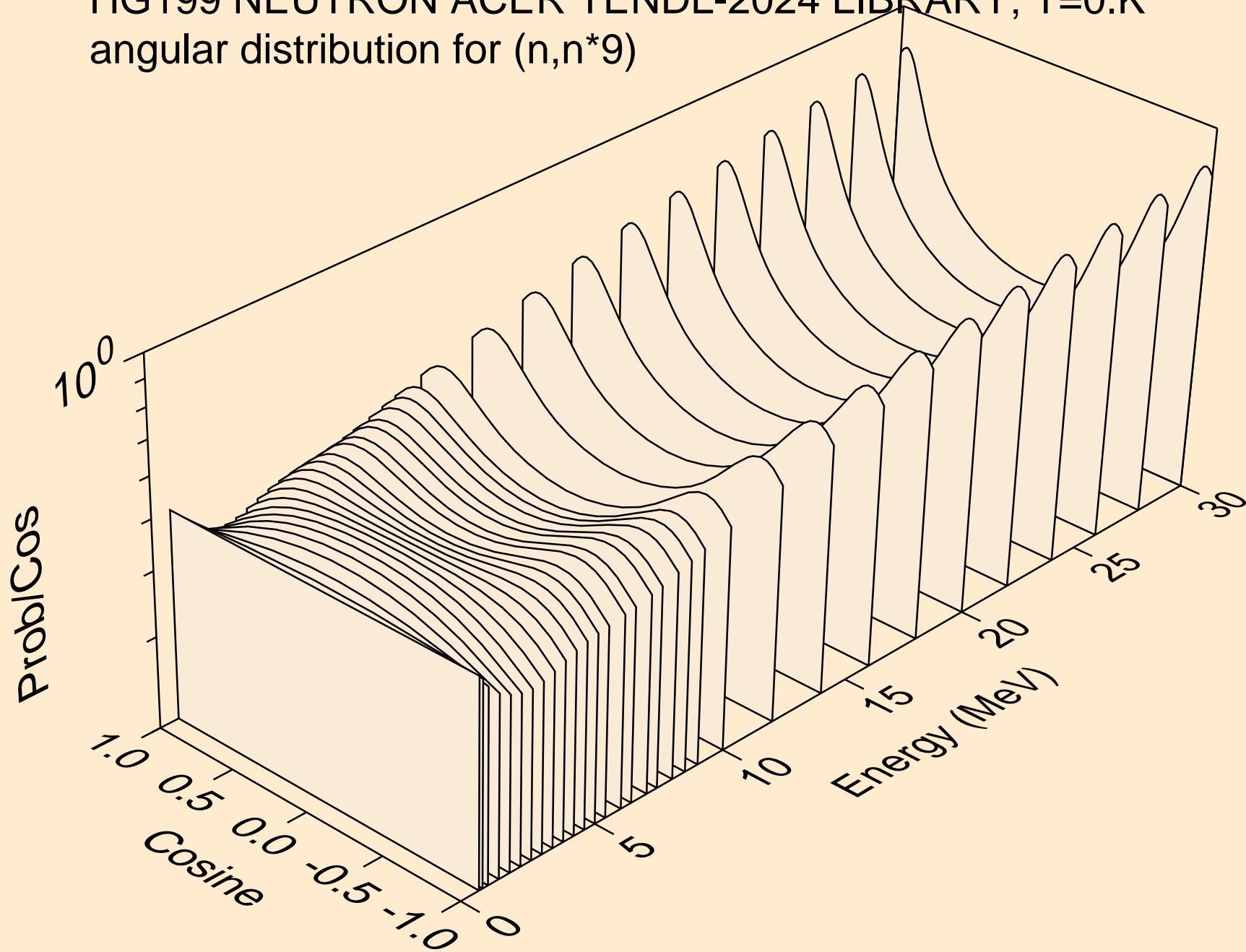


HG199 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*8)

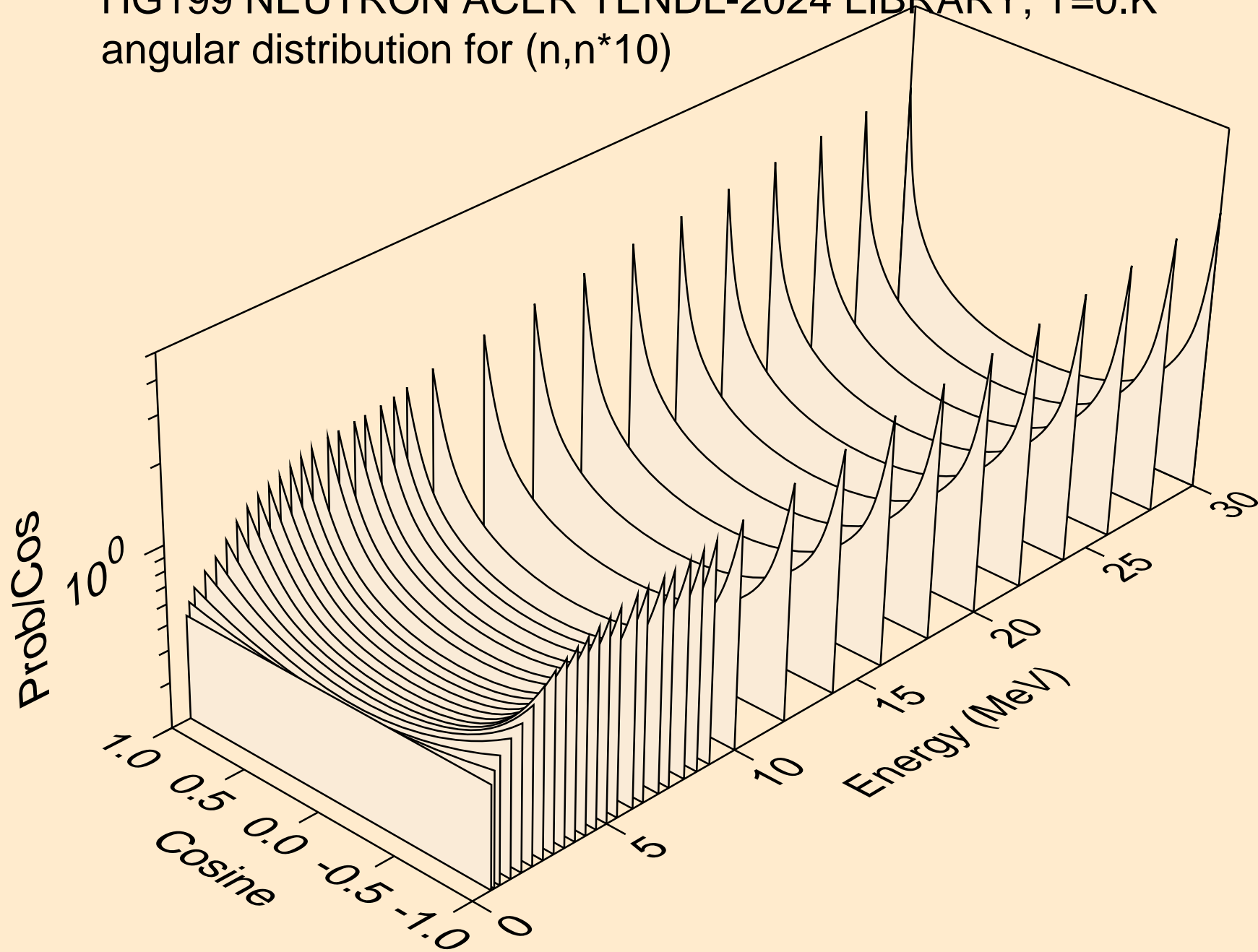




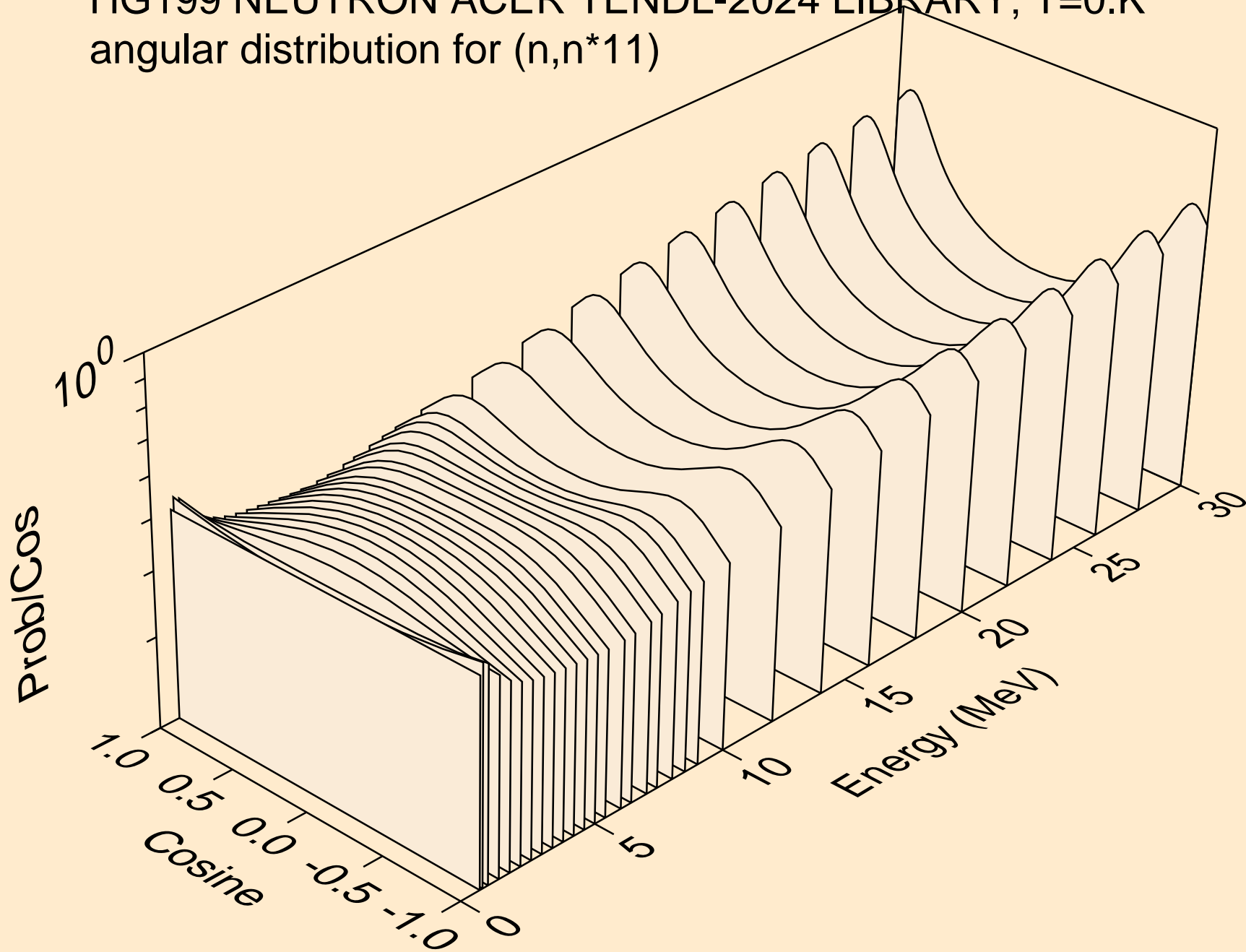
HG199 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*9)



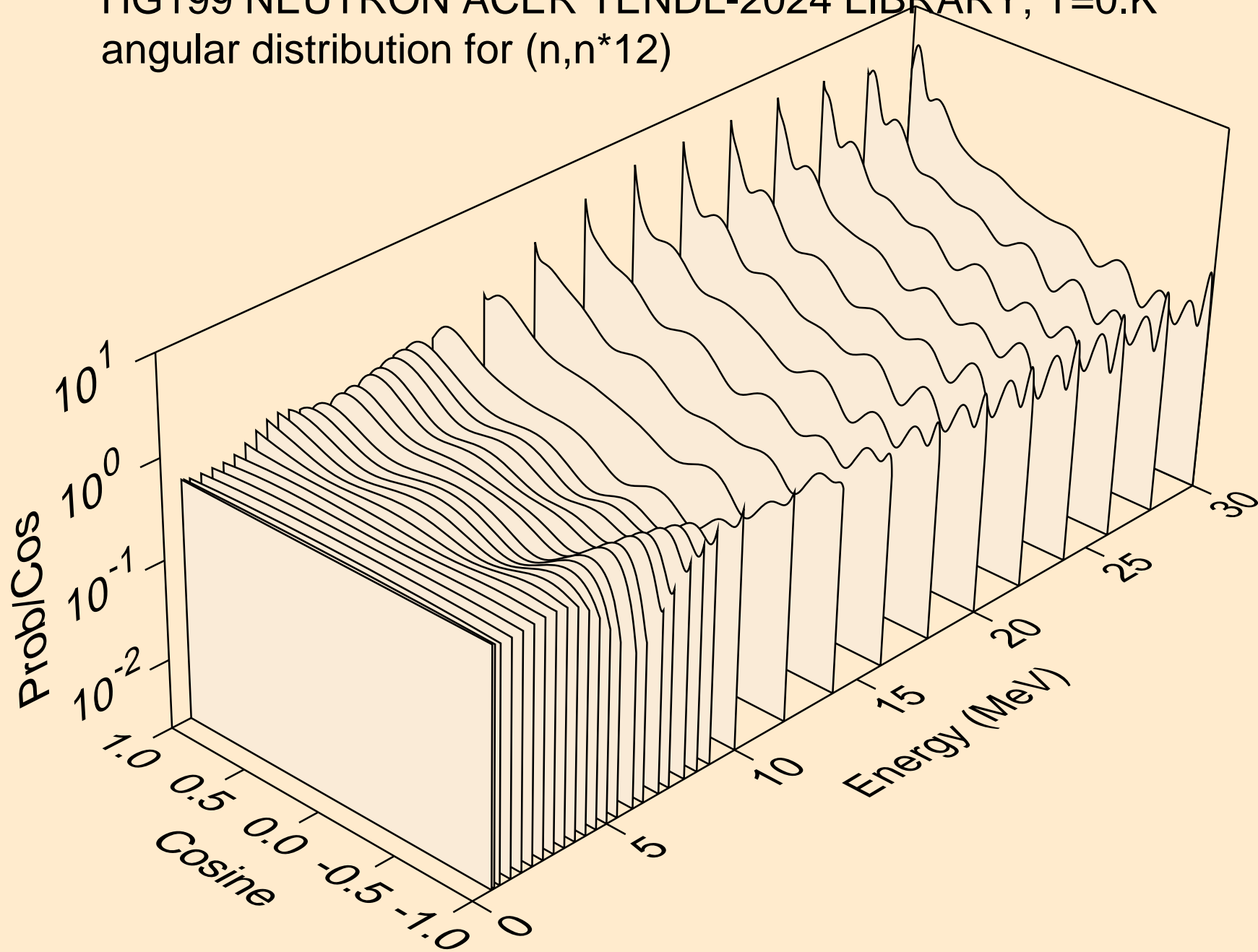
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angular distribution for (n,n\*10)



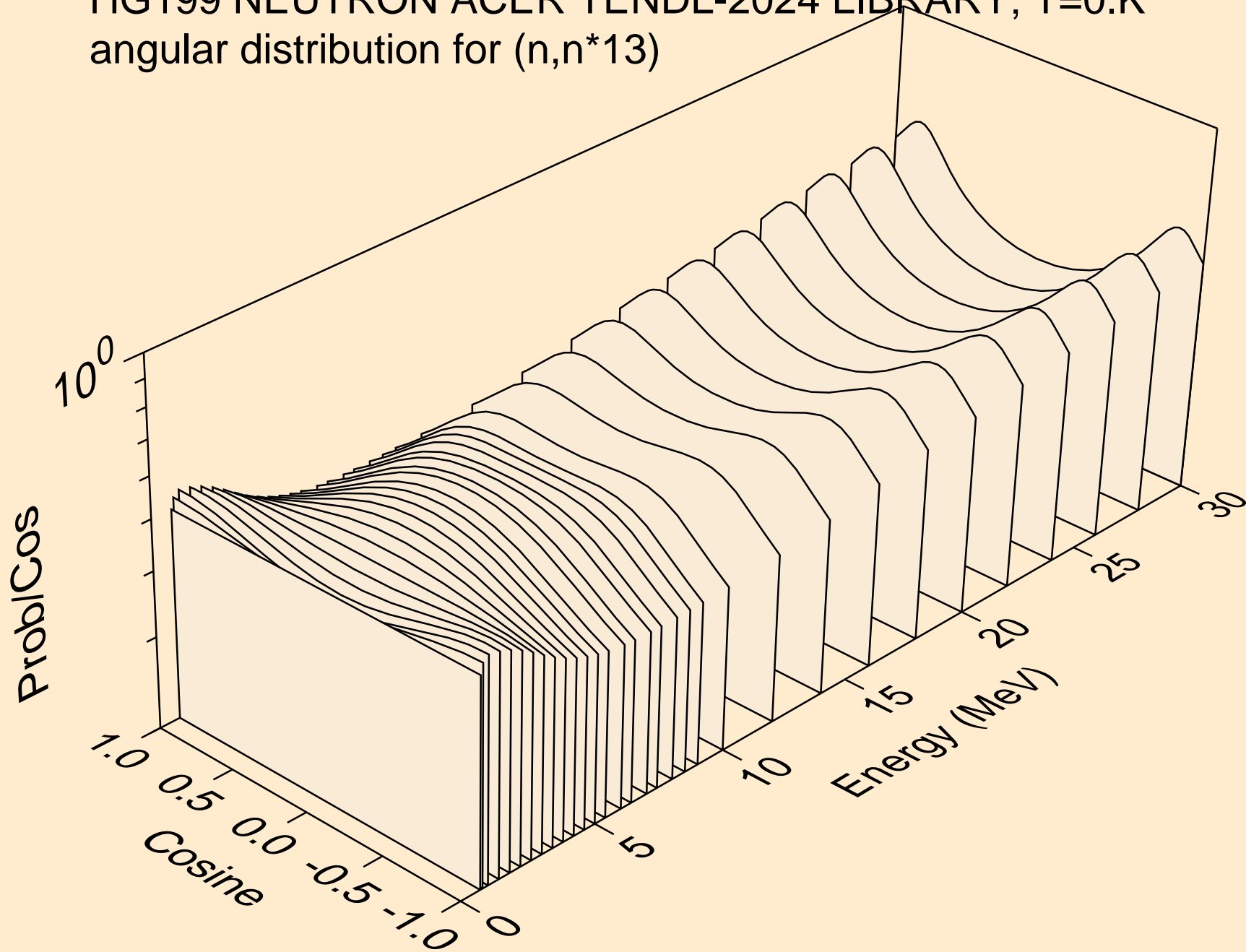
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angular distribution for (n,n\*11)



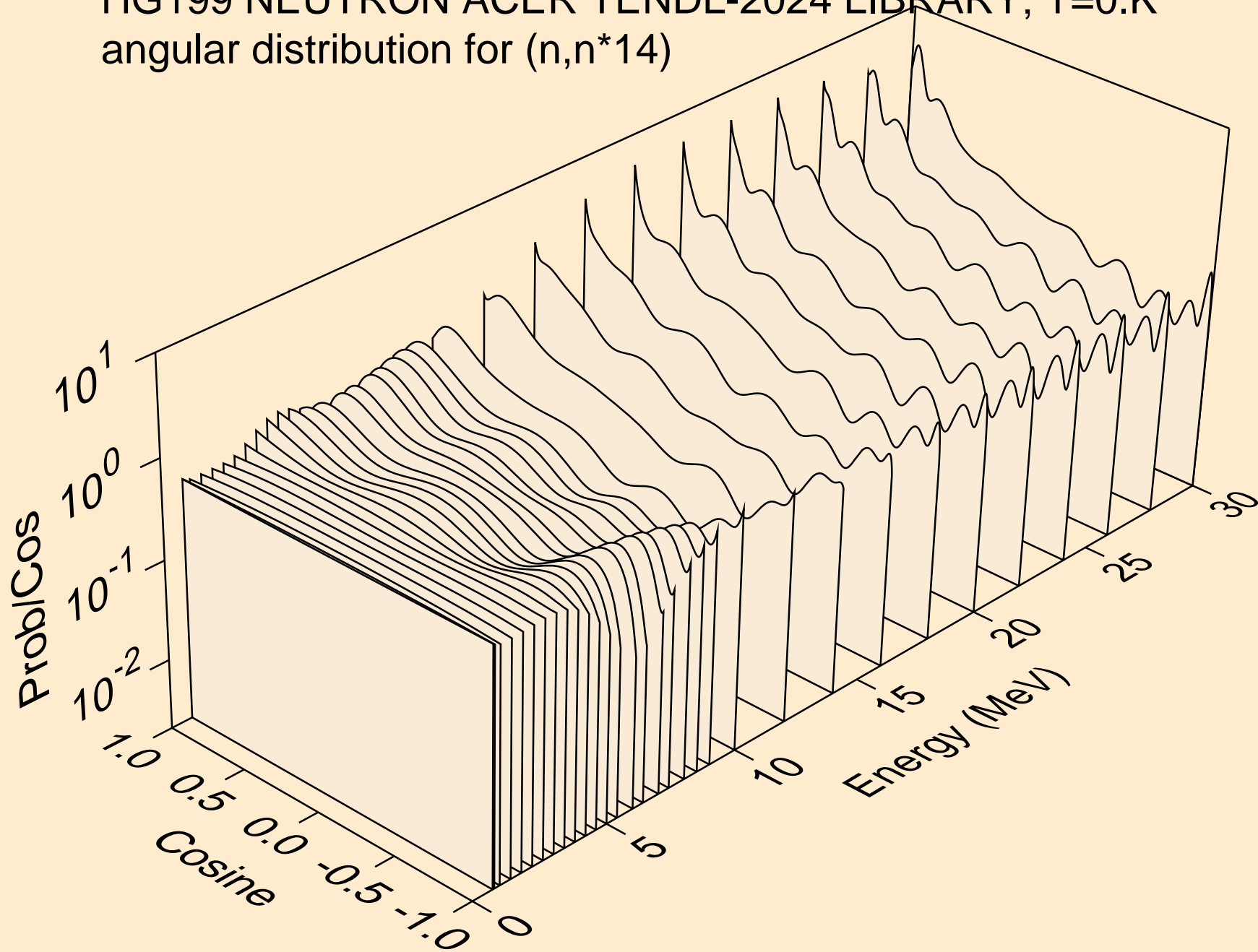
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angular distribution for (n,n\*12)



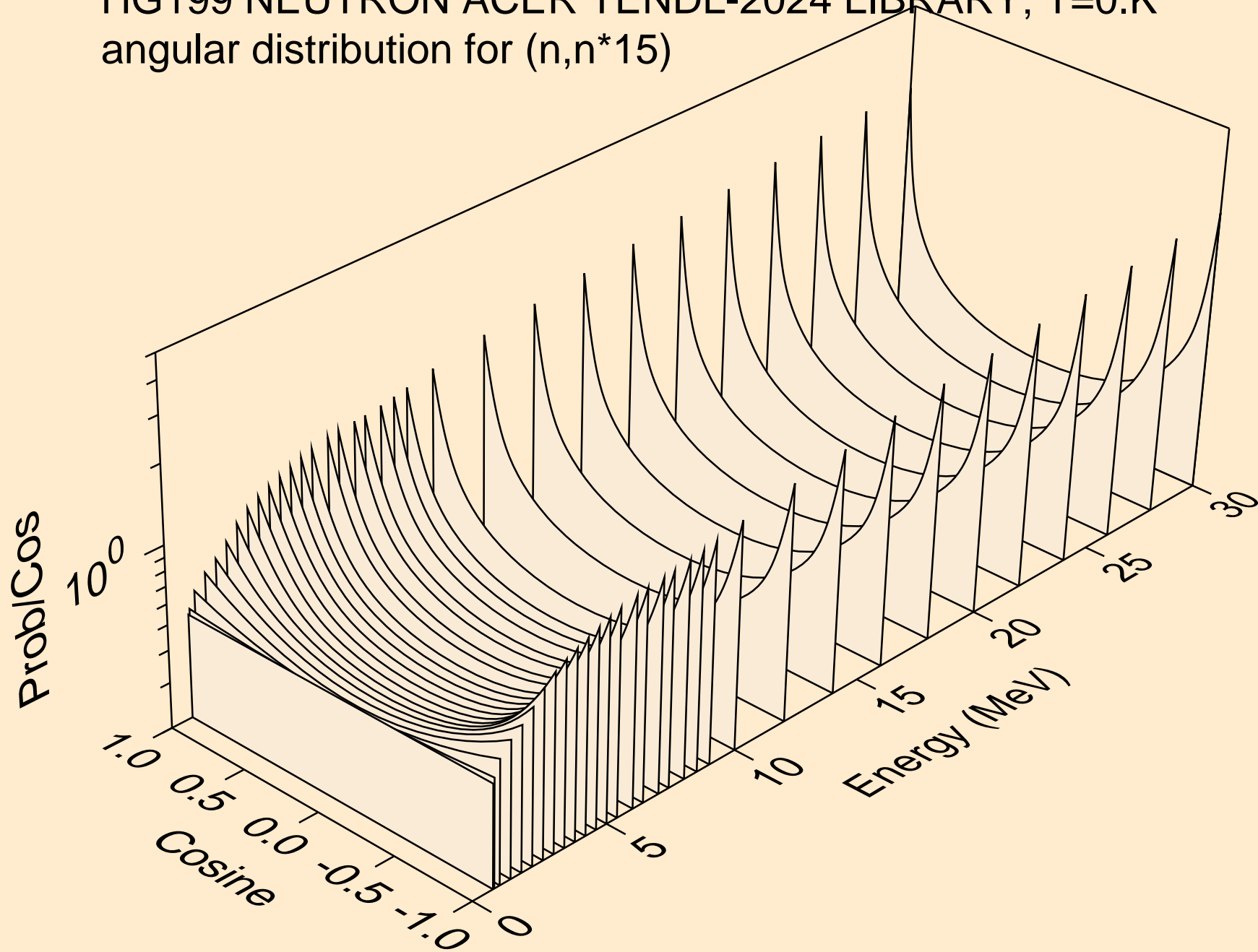
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angular distribution for (n,n\*13)



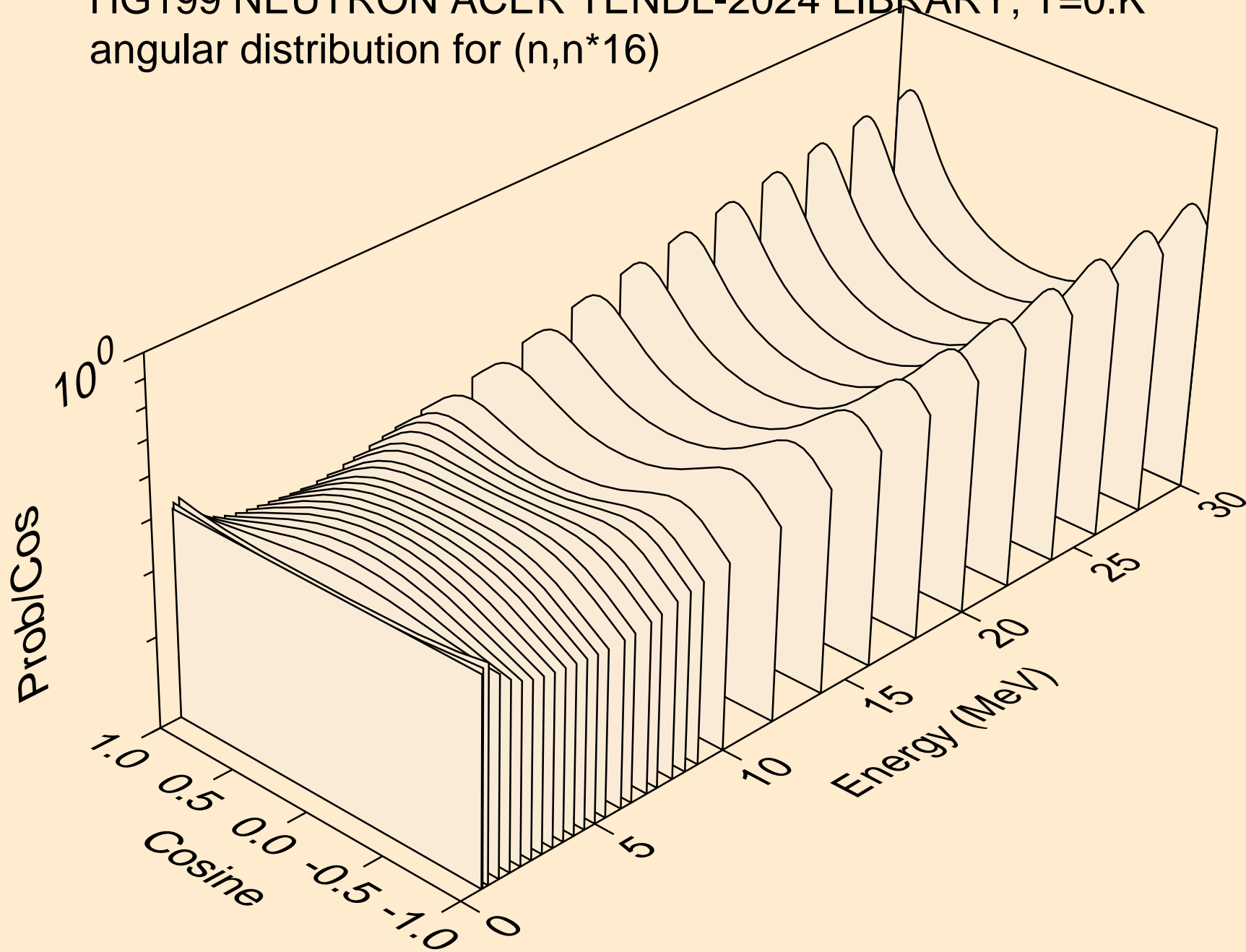
HG199 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*14)



HG199 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*15)

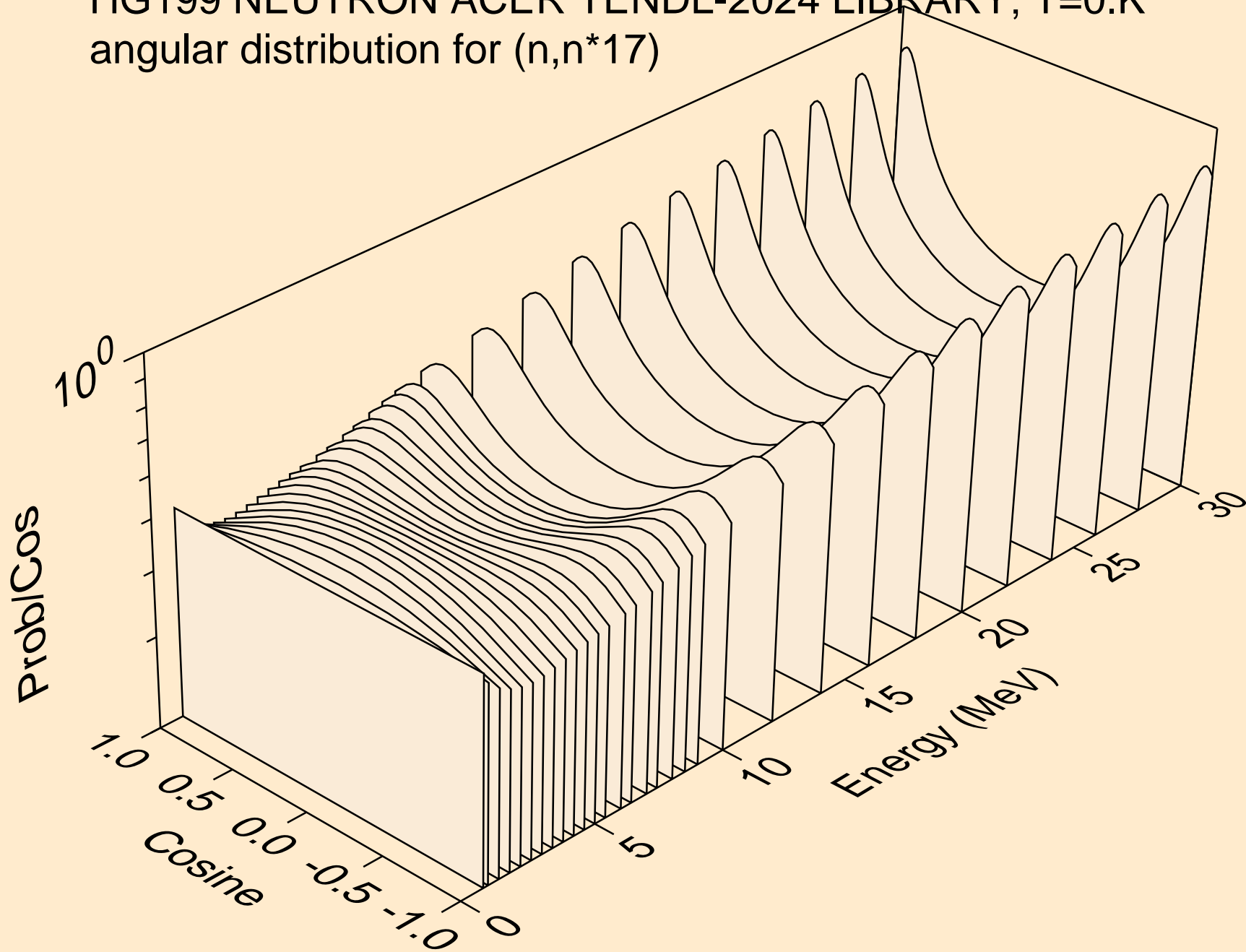


HG199 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*16)

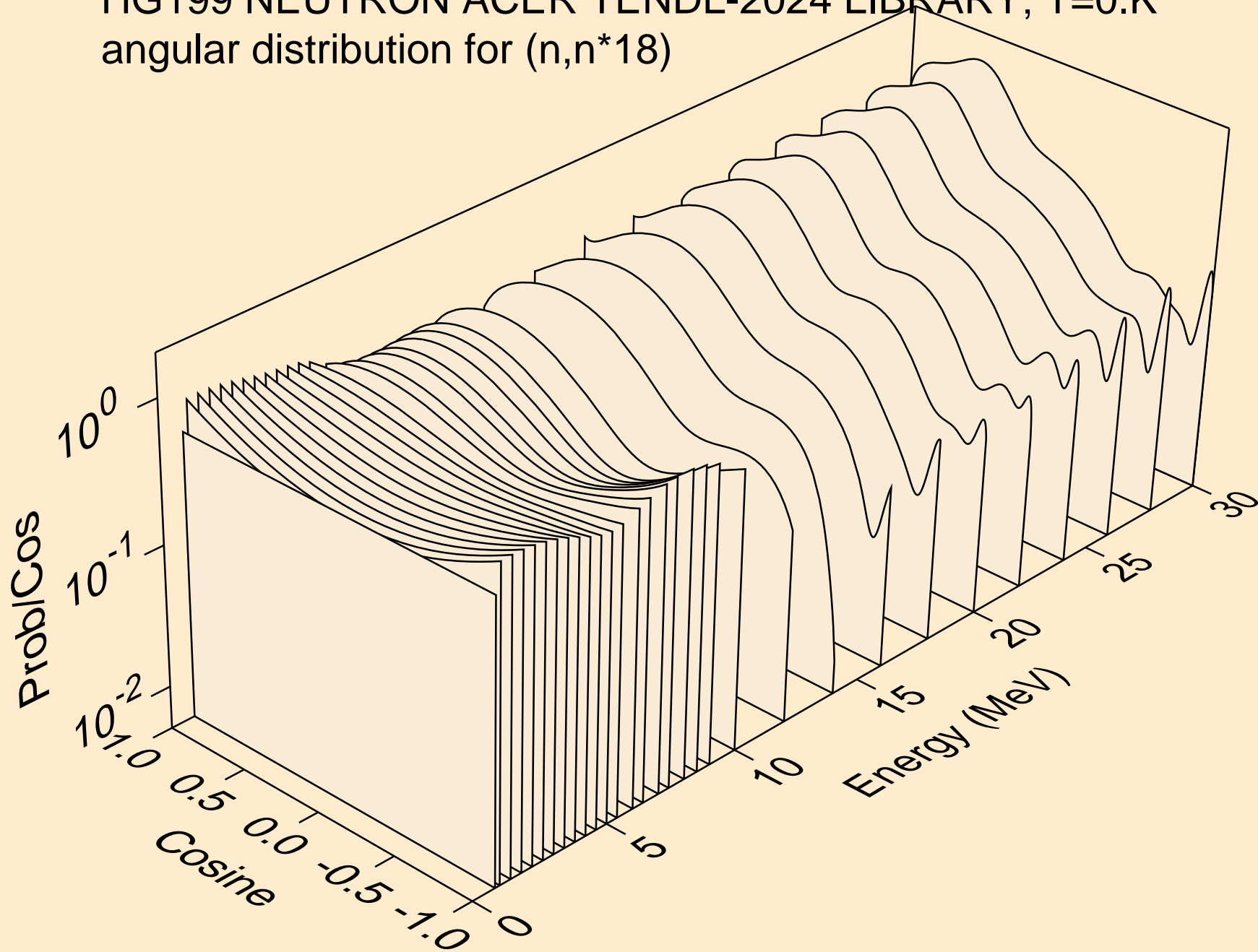




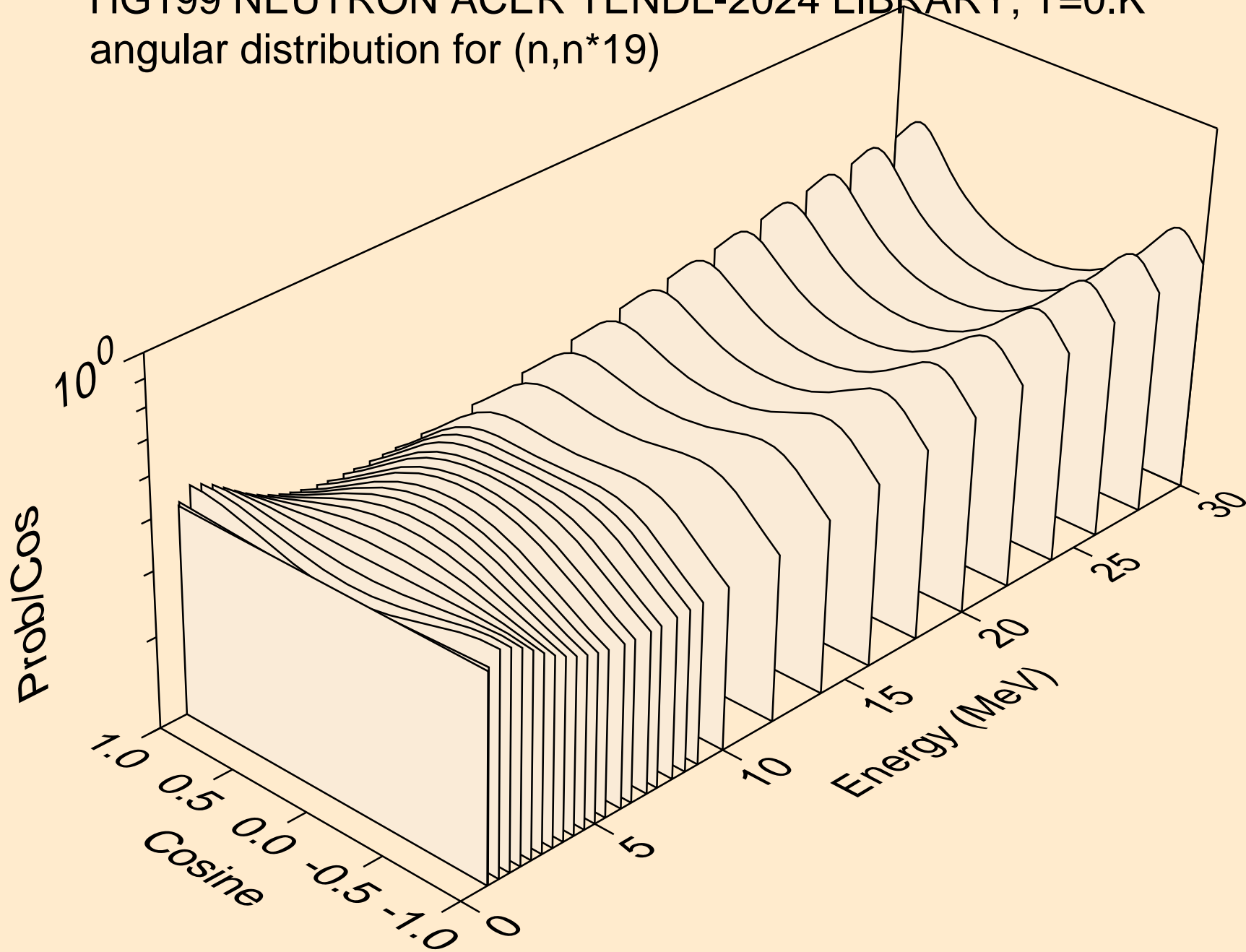
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angular distribution for (n,n\*17)



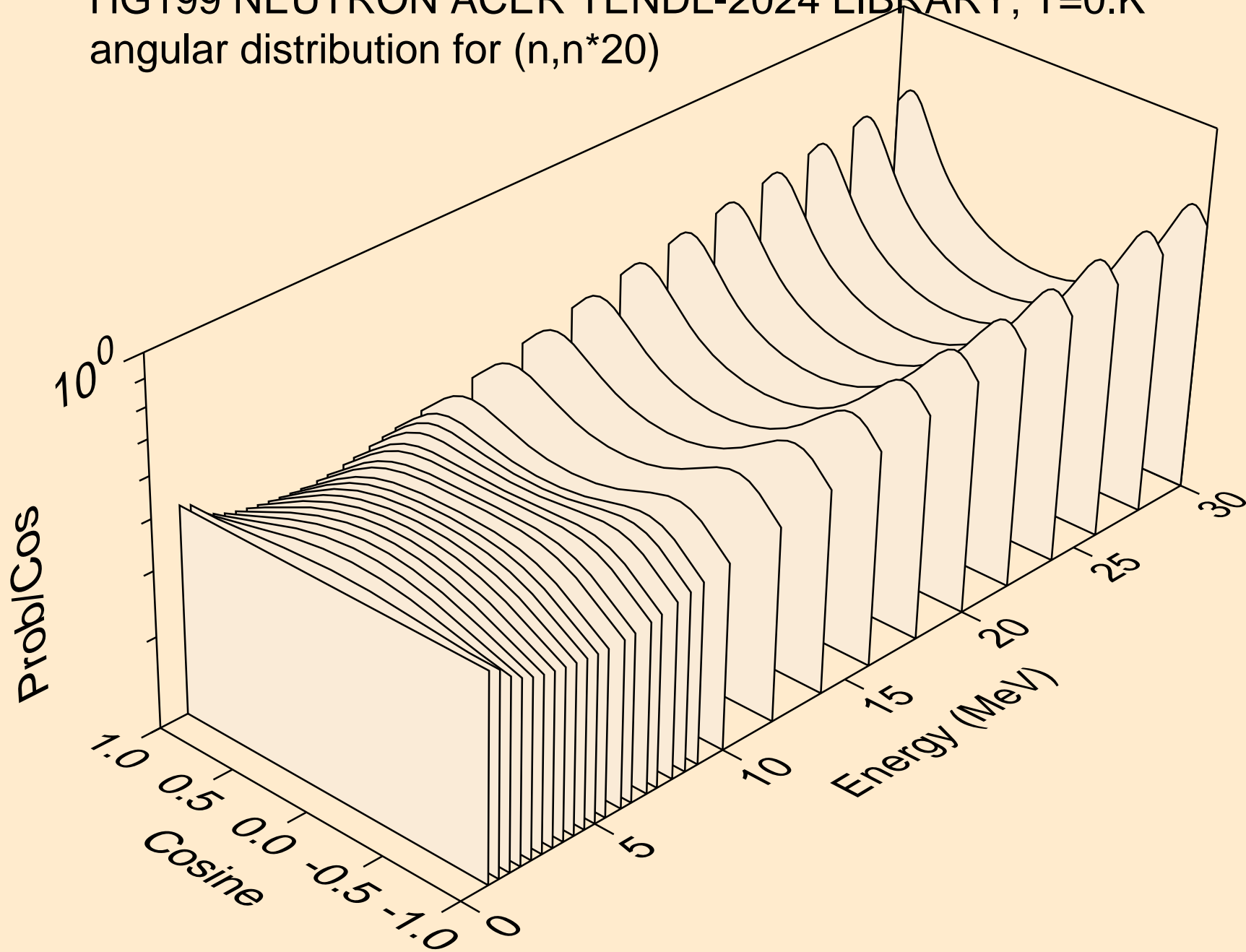
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angular distribution for (n,n\*18)



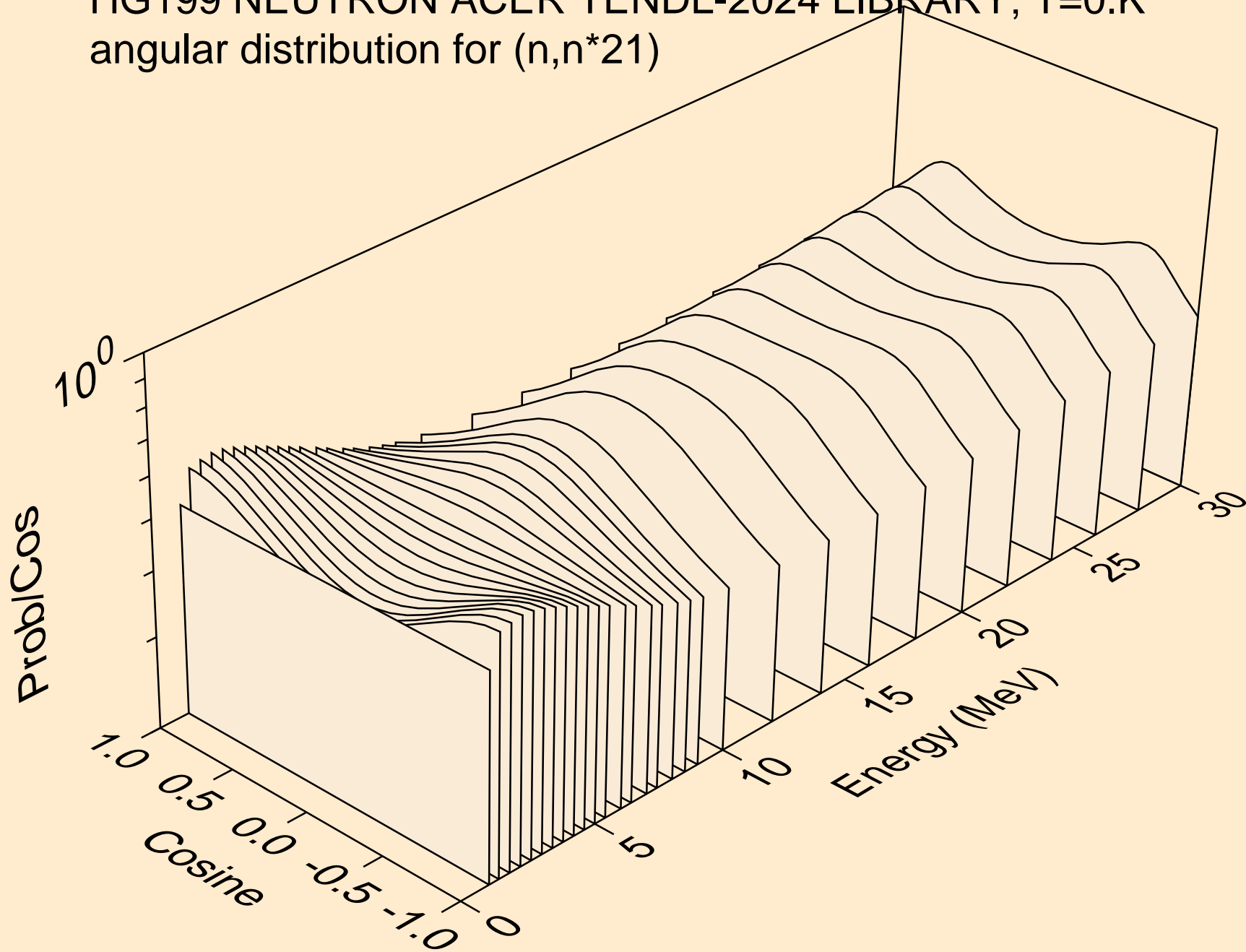
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angular distribution for (n,n\*19)



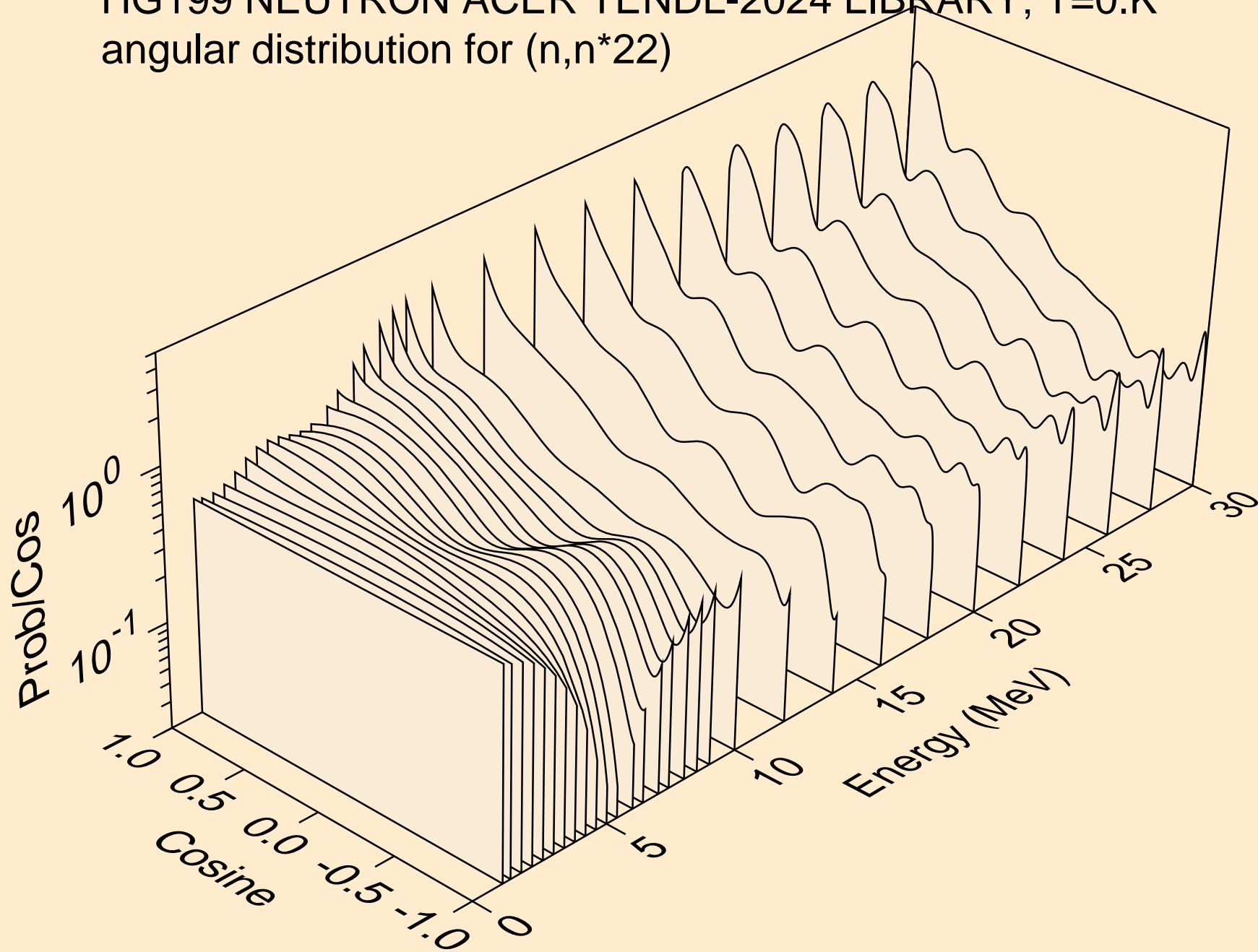
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angular distribution for (n,n\*20)



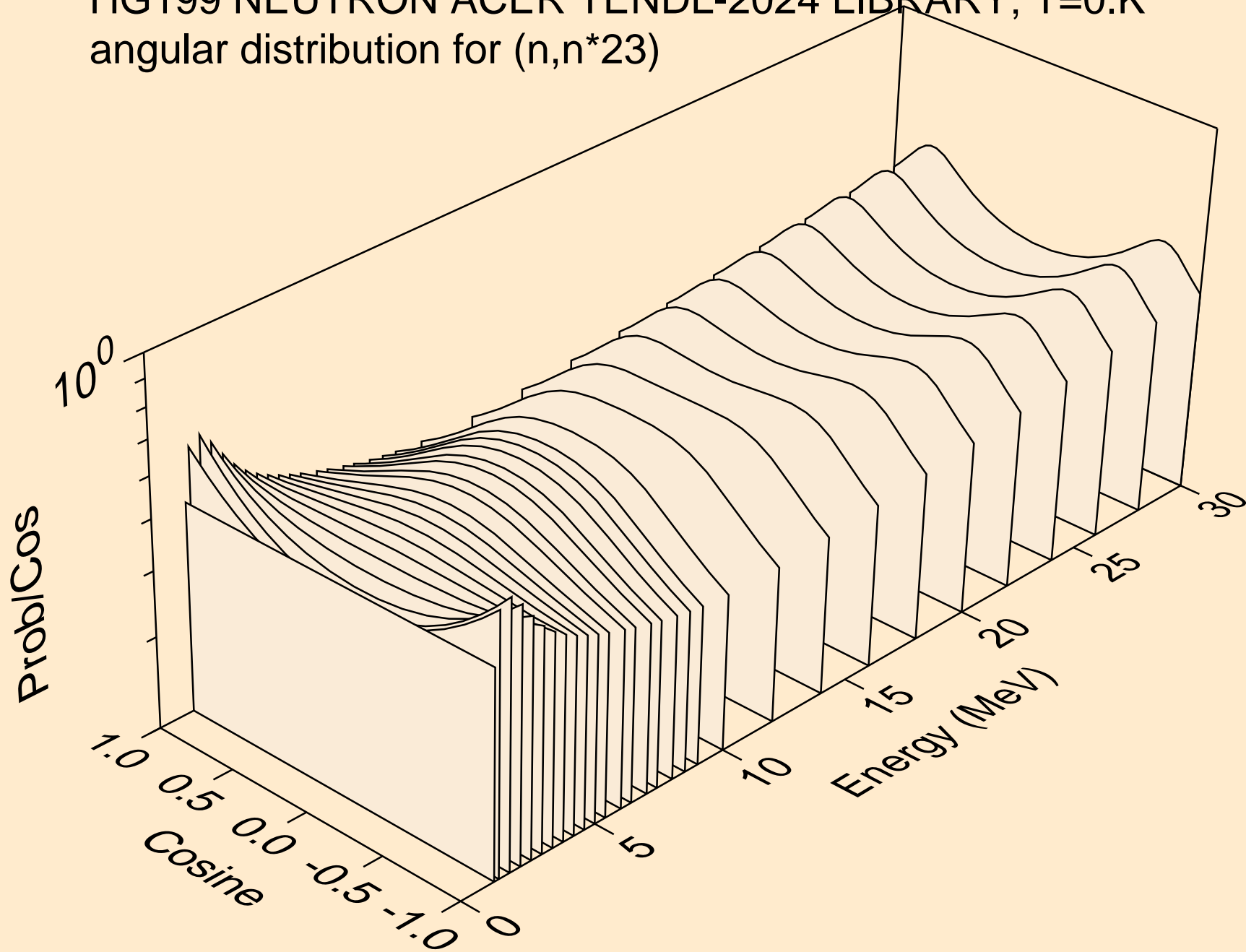
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angular distribution for (n,n\*21)



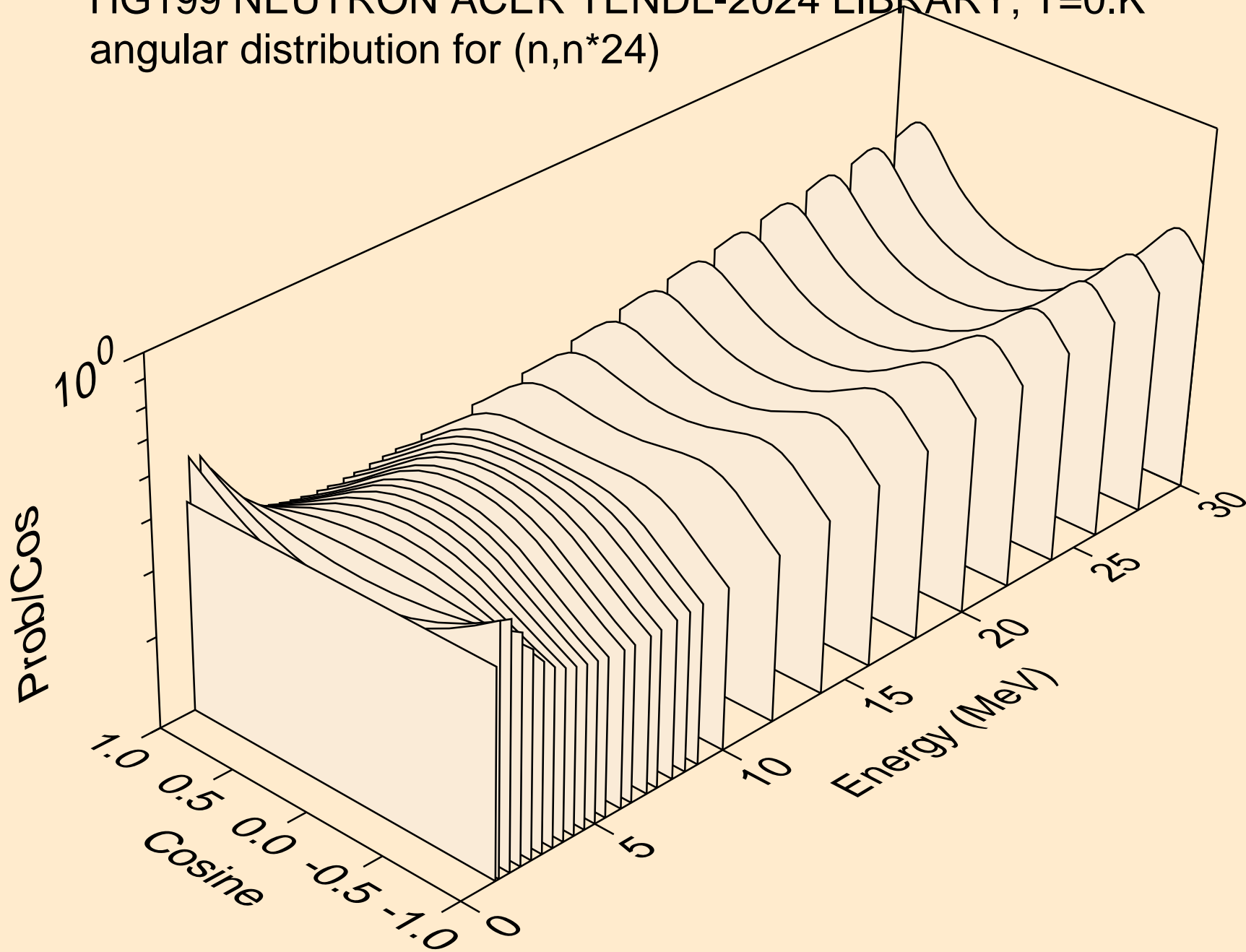
HG199 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*22)



HG199 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*23)

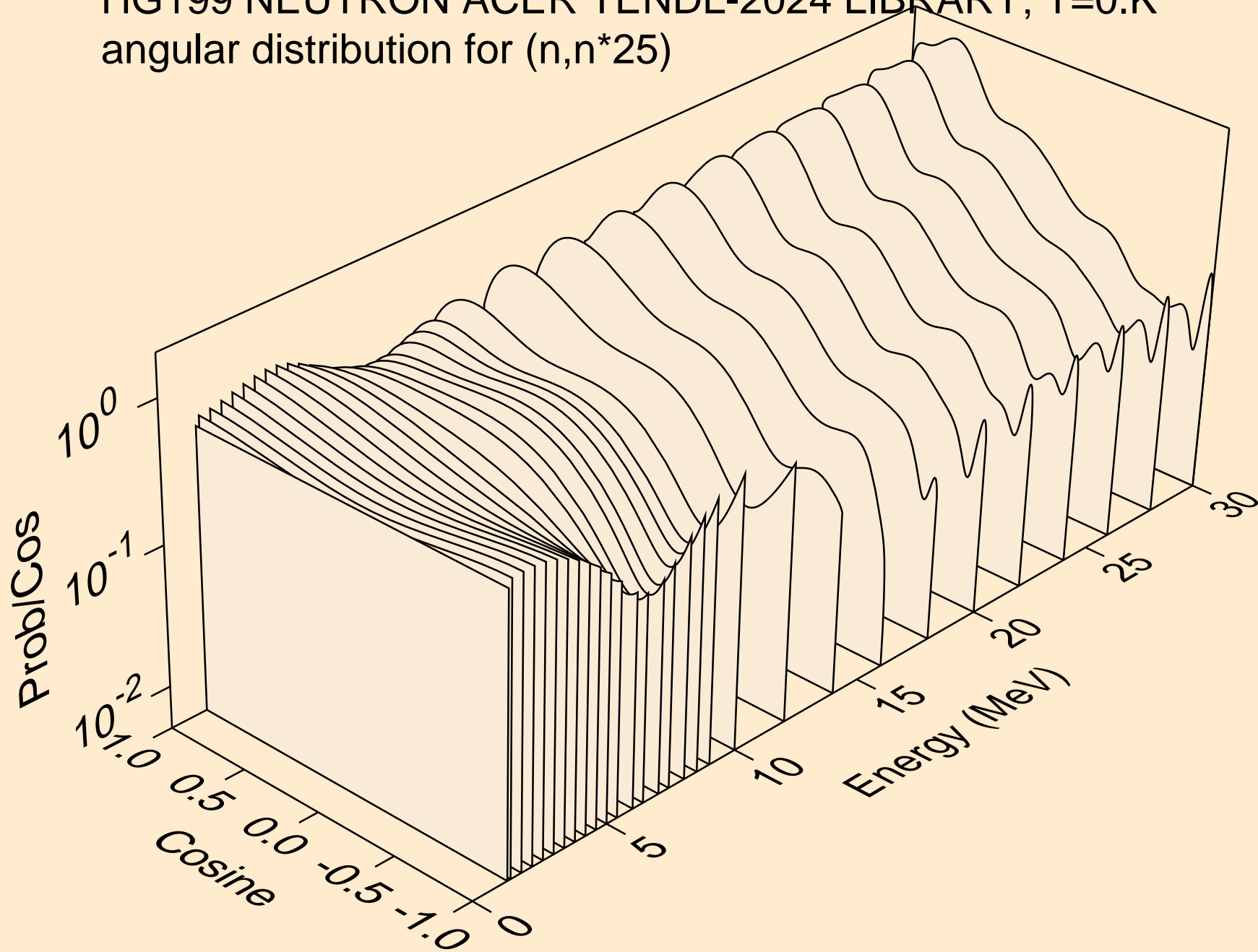


HG199 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*24)

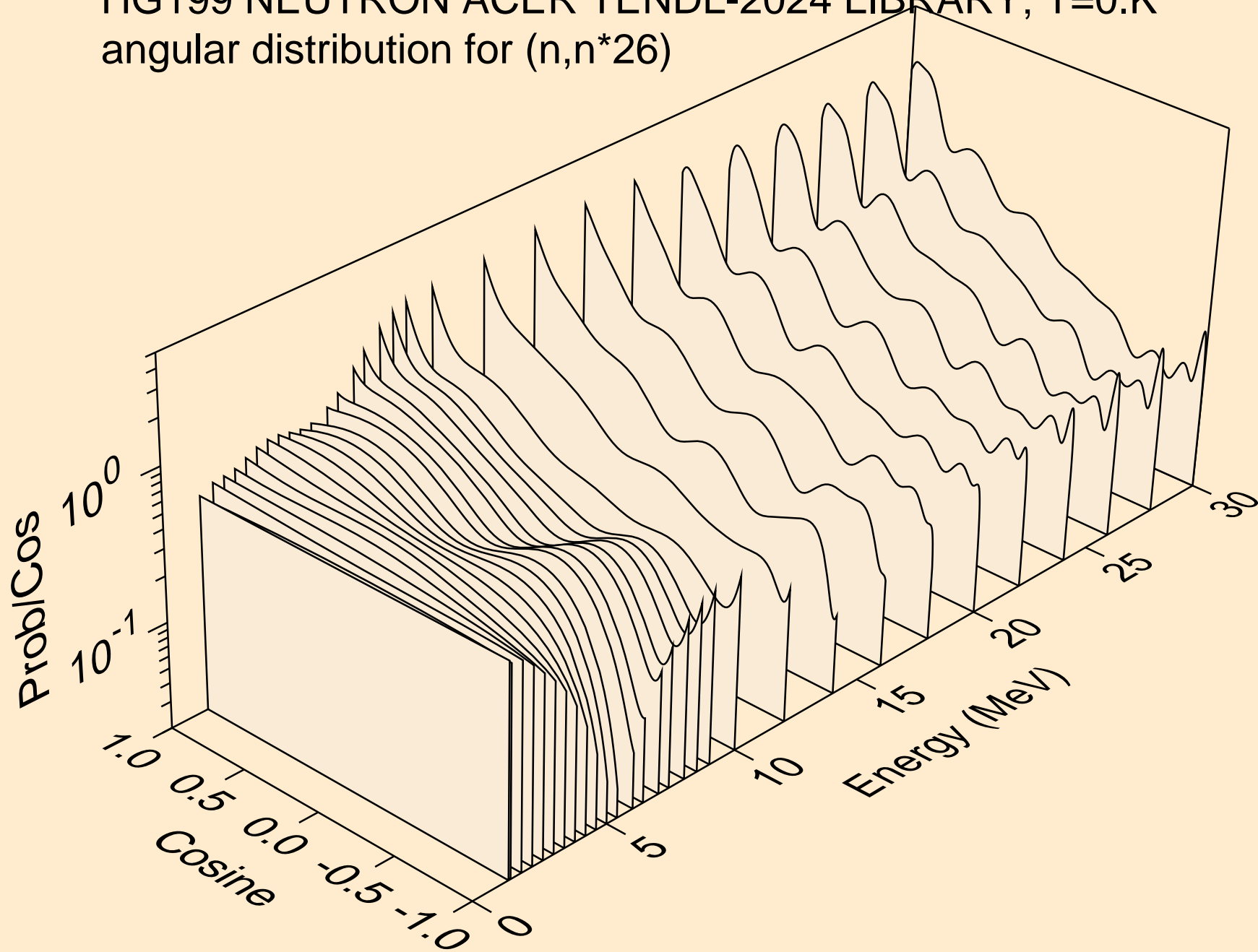




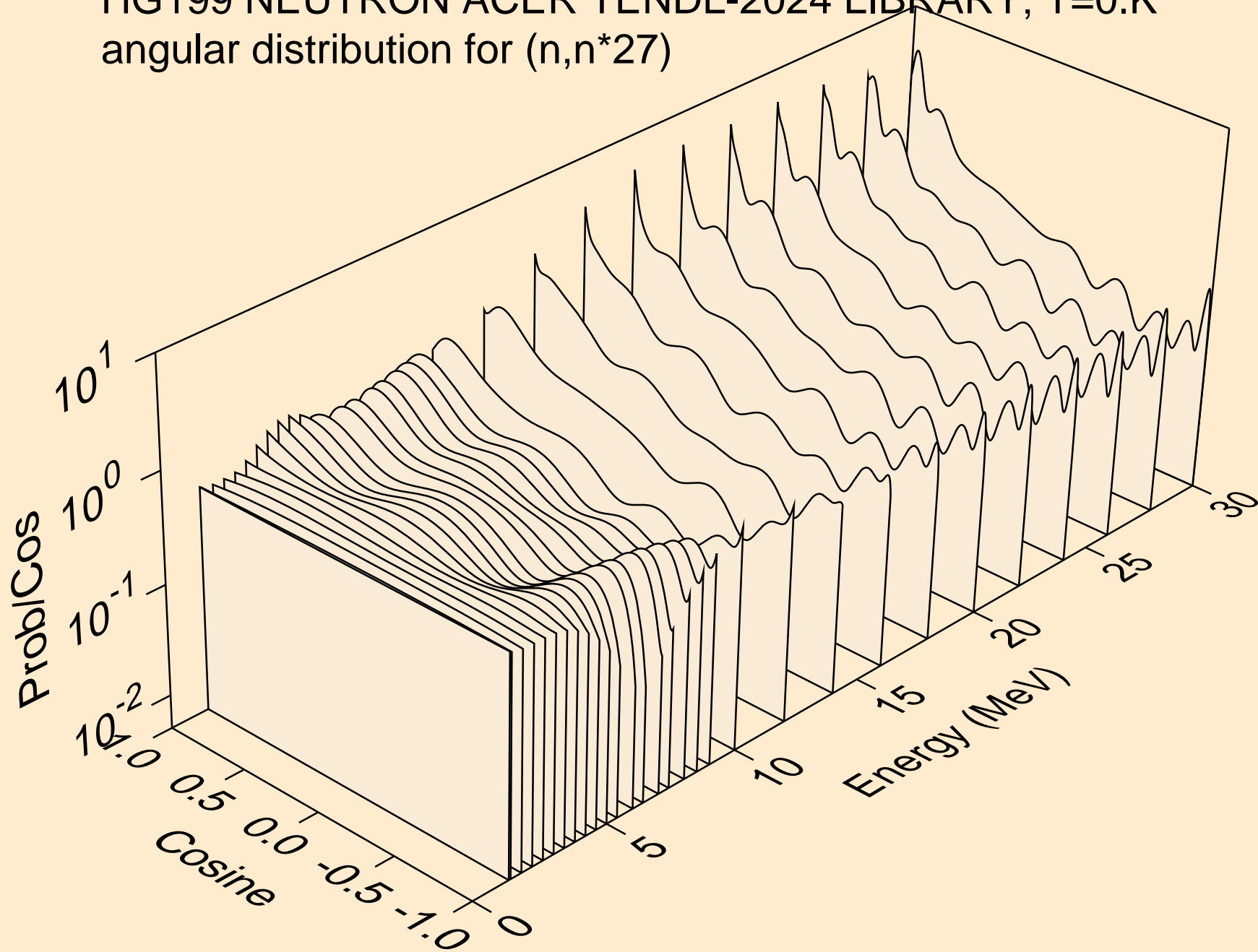
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angular distribution for (n,n\*25)



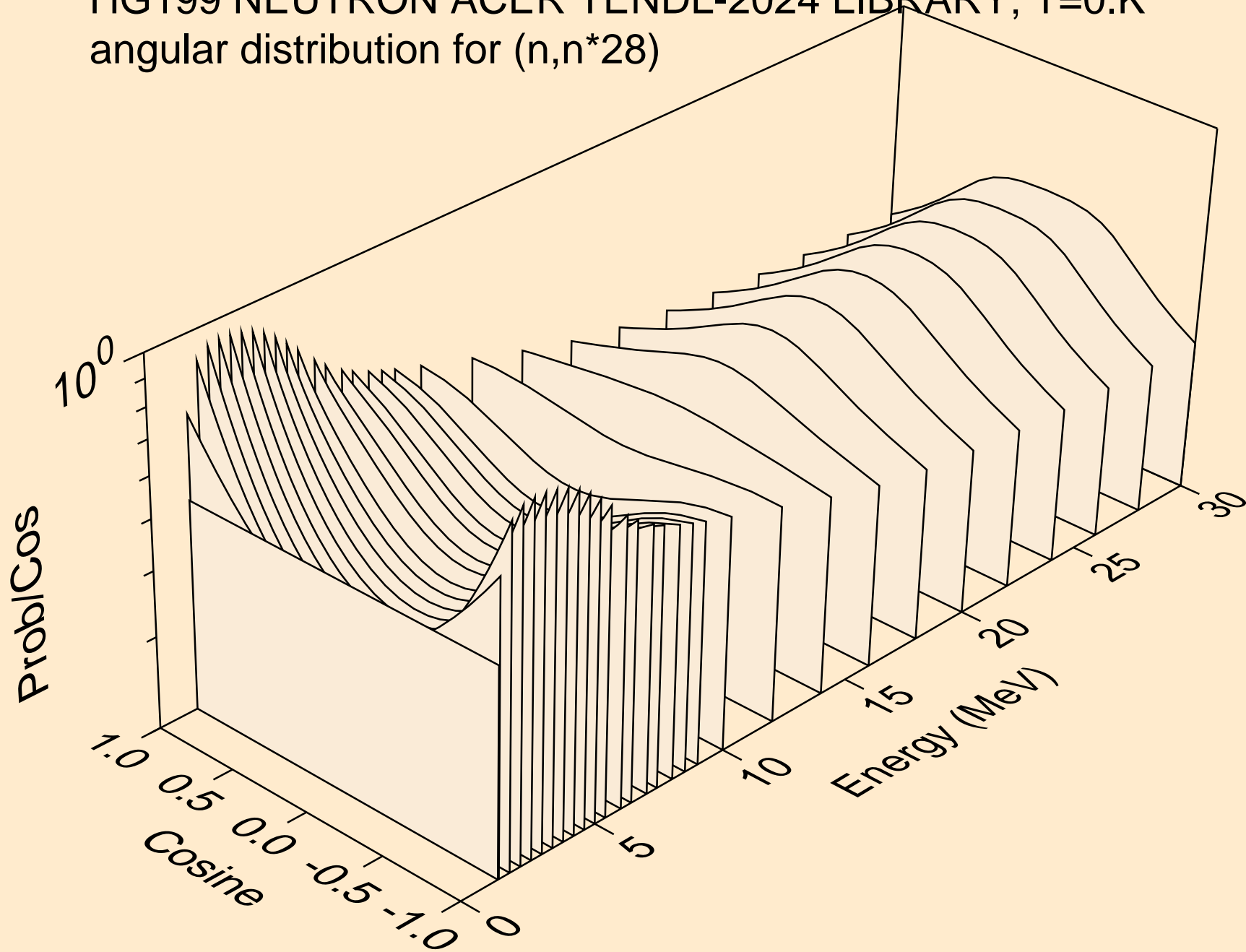
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angular distribution for (n,n\*26)



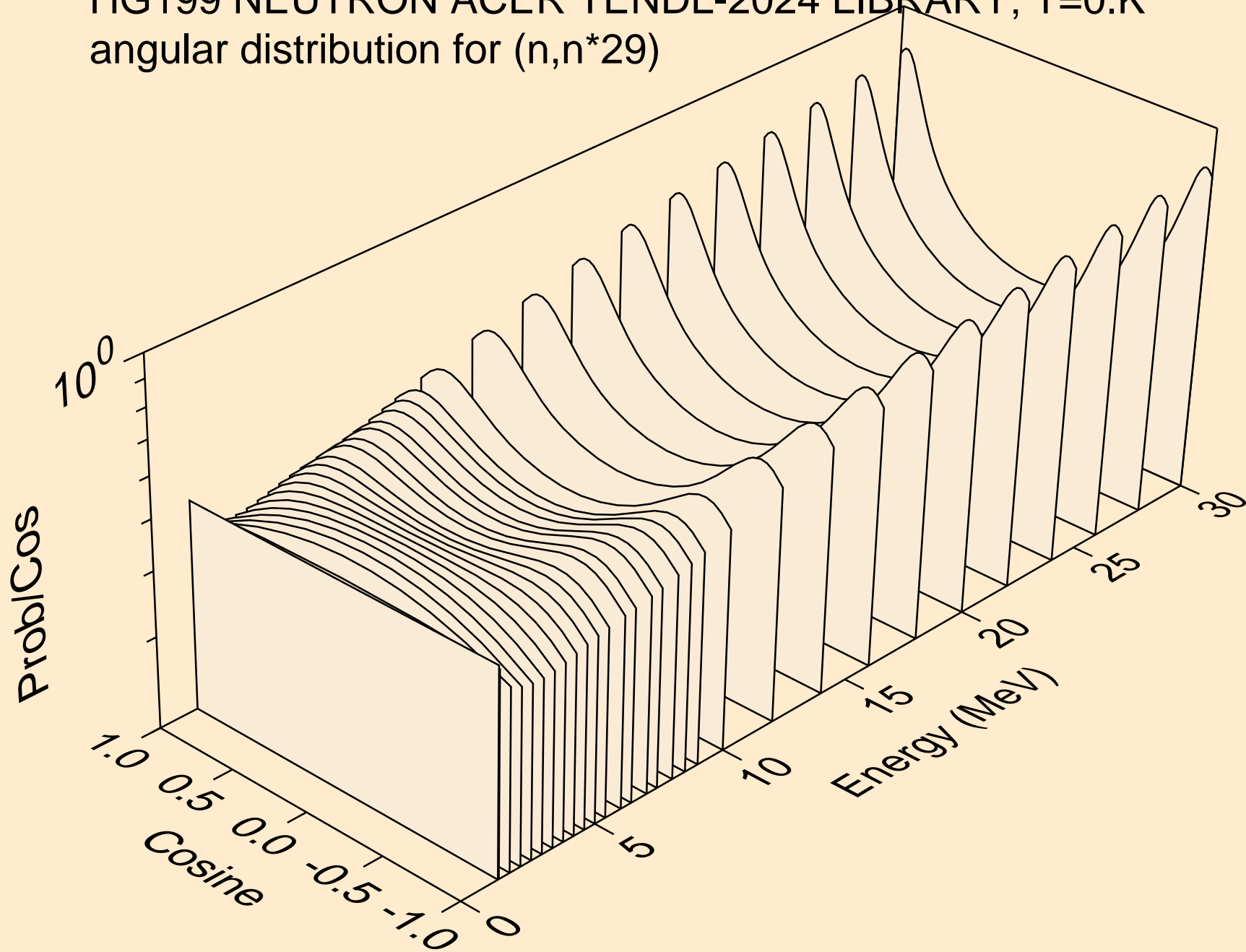
HG199 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*27)



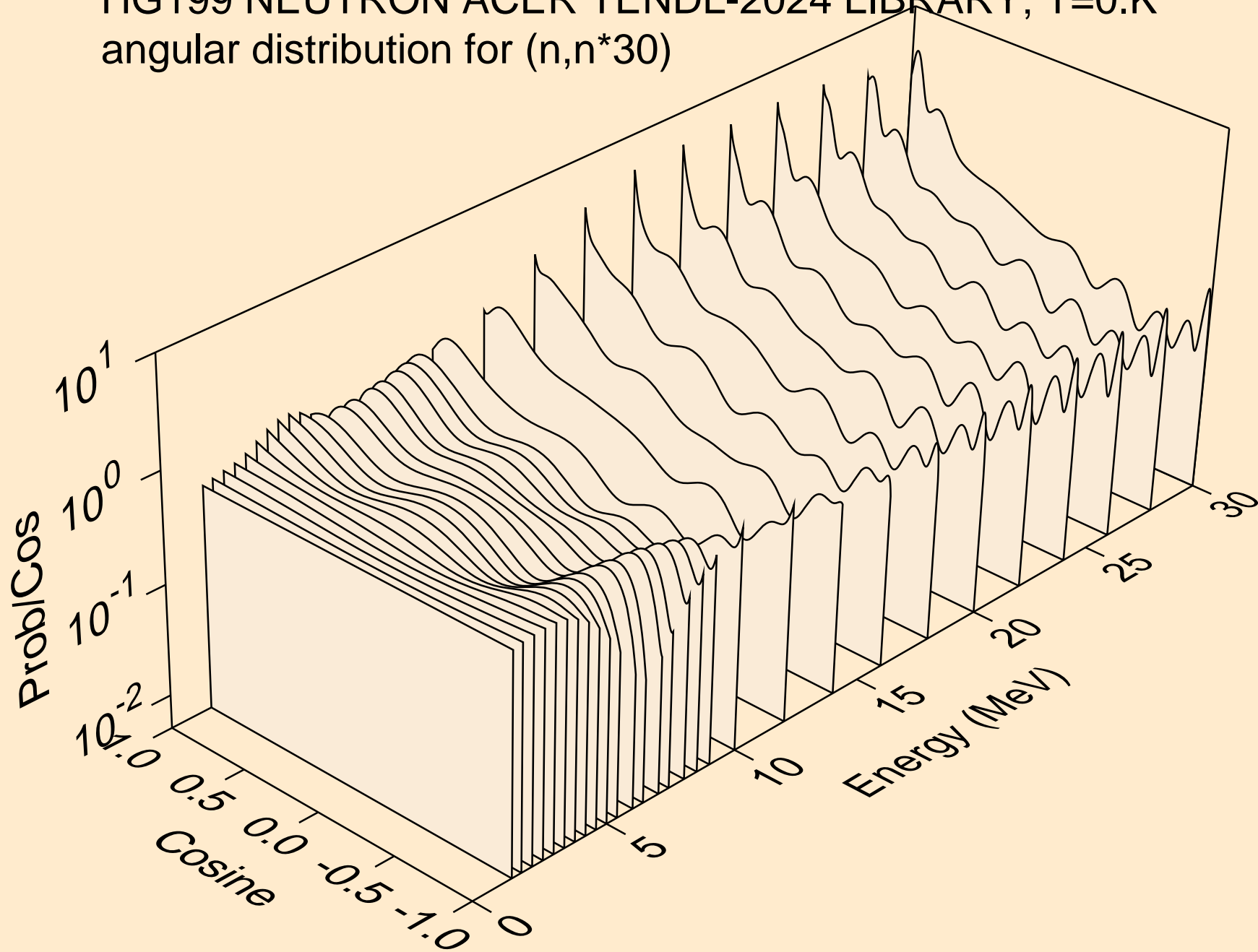
HG199 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*28)



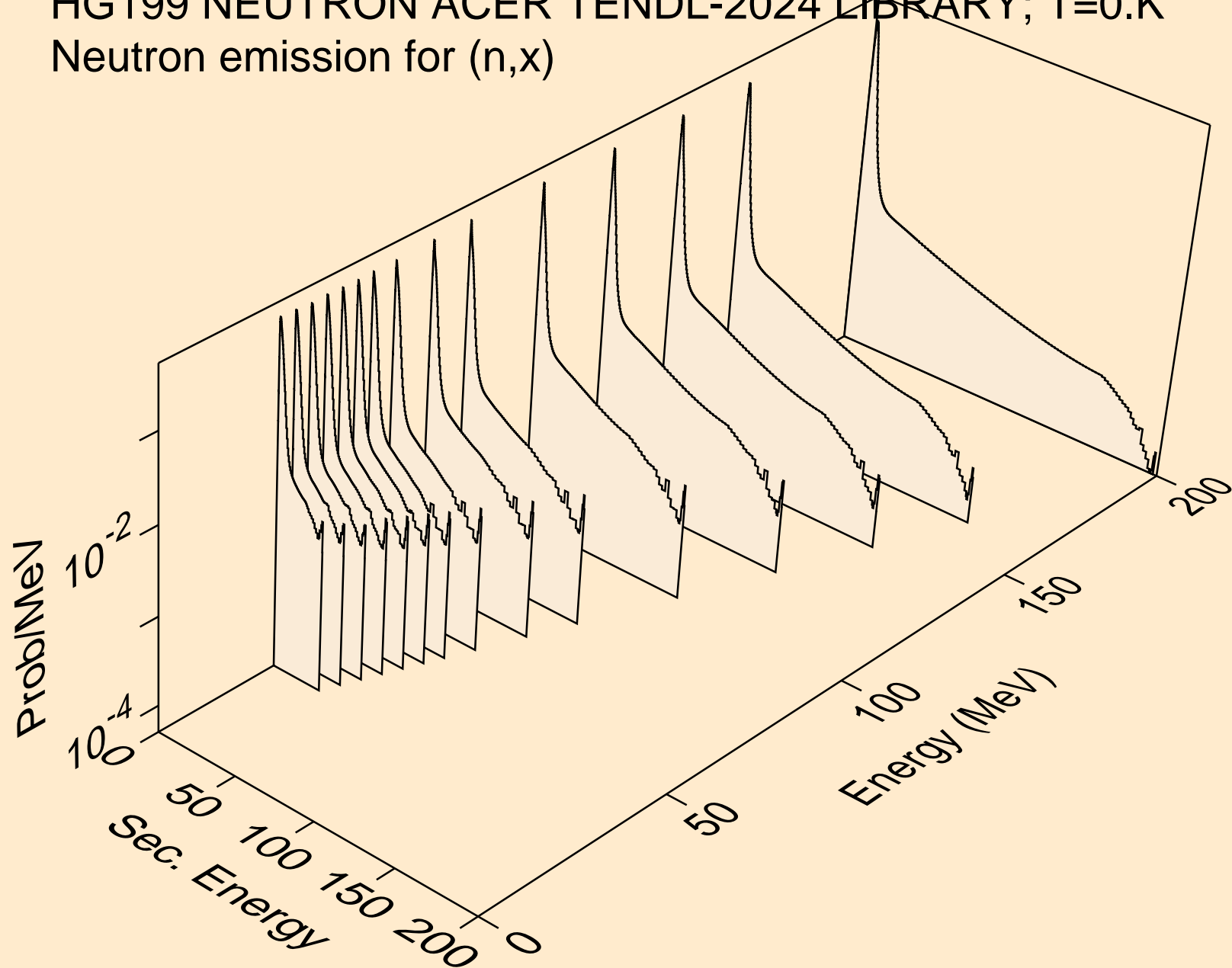
HG199 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*29)



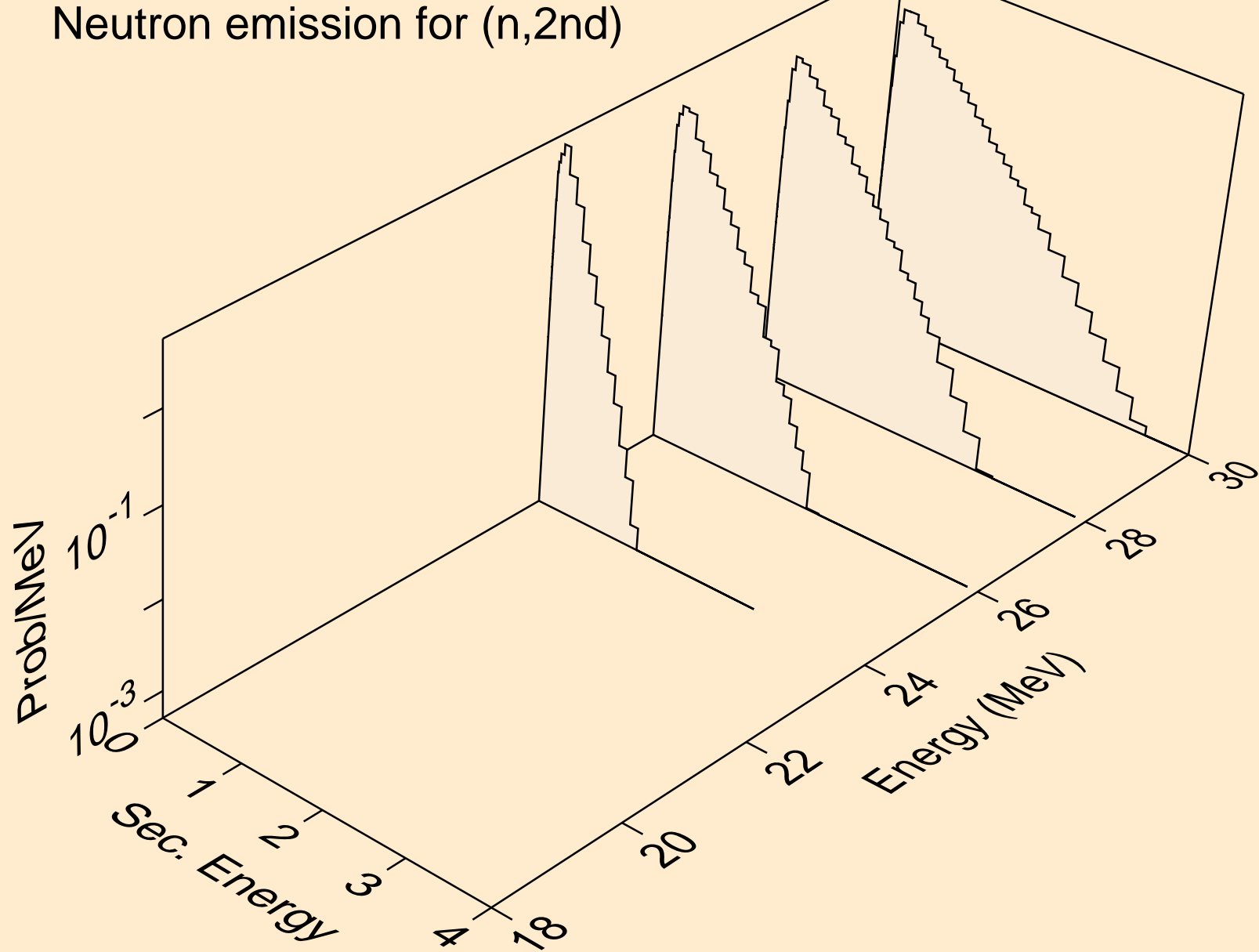
HG199 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*30)



HG199 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,x)

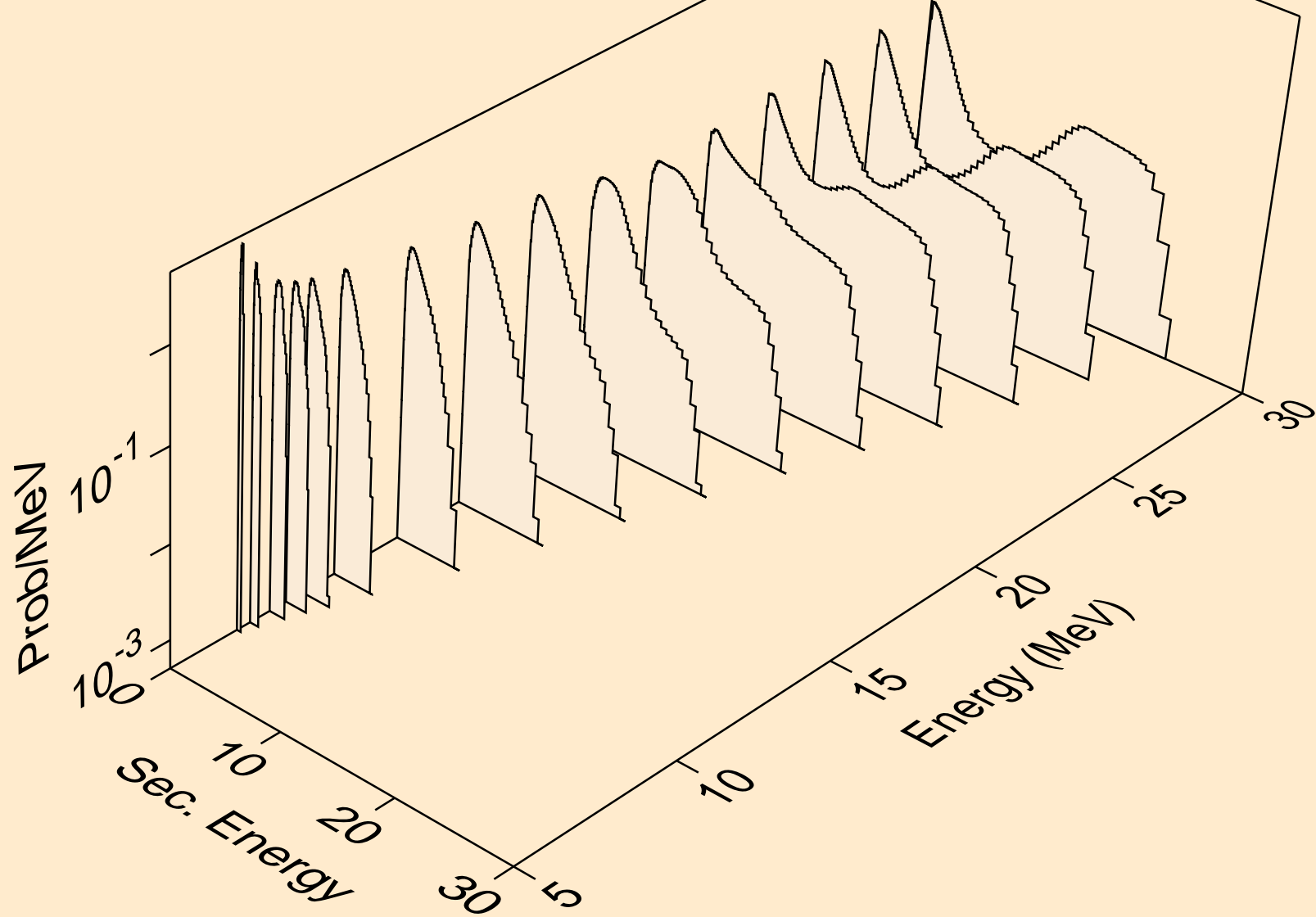


HG199 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,2nd)

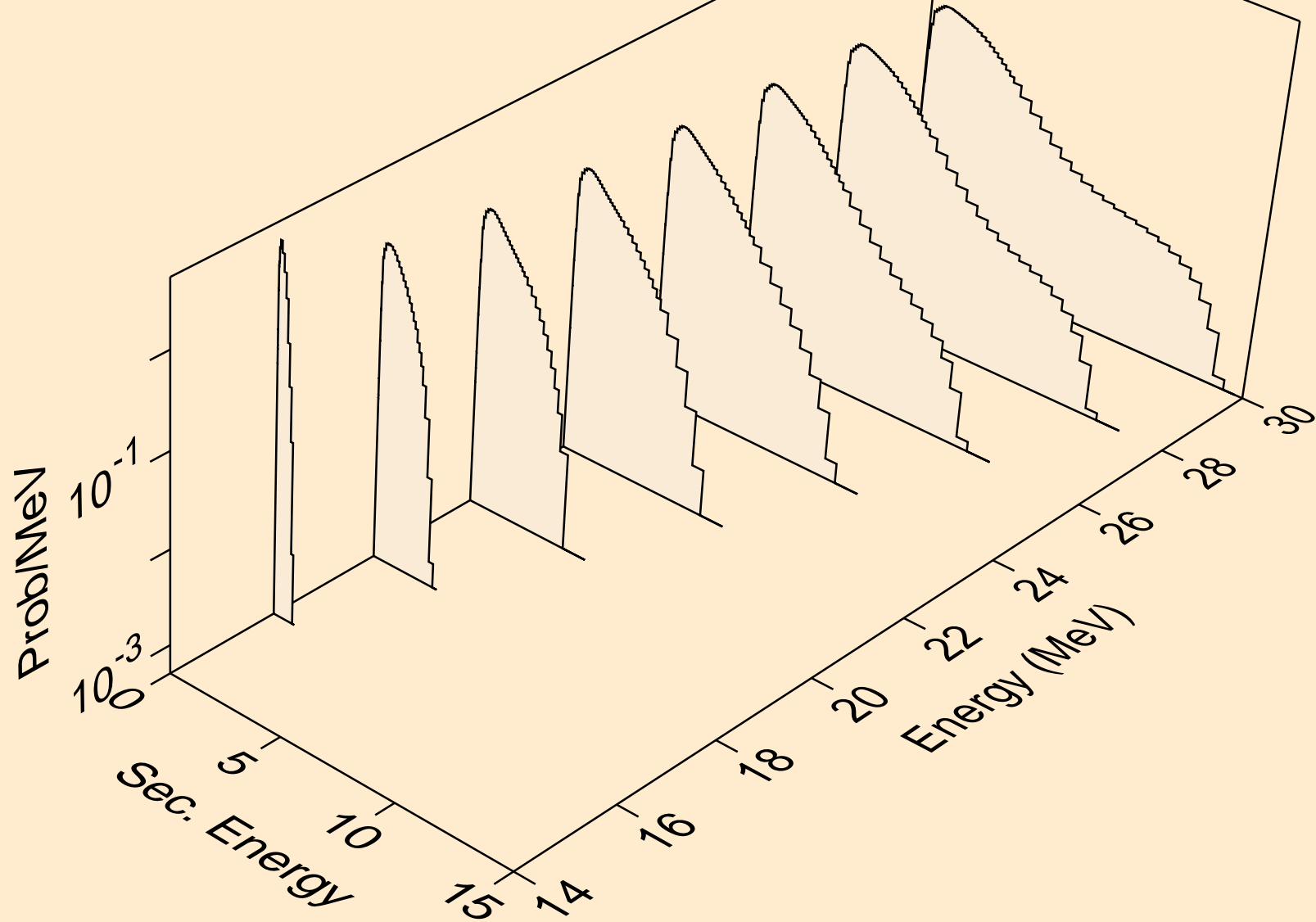




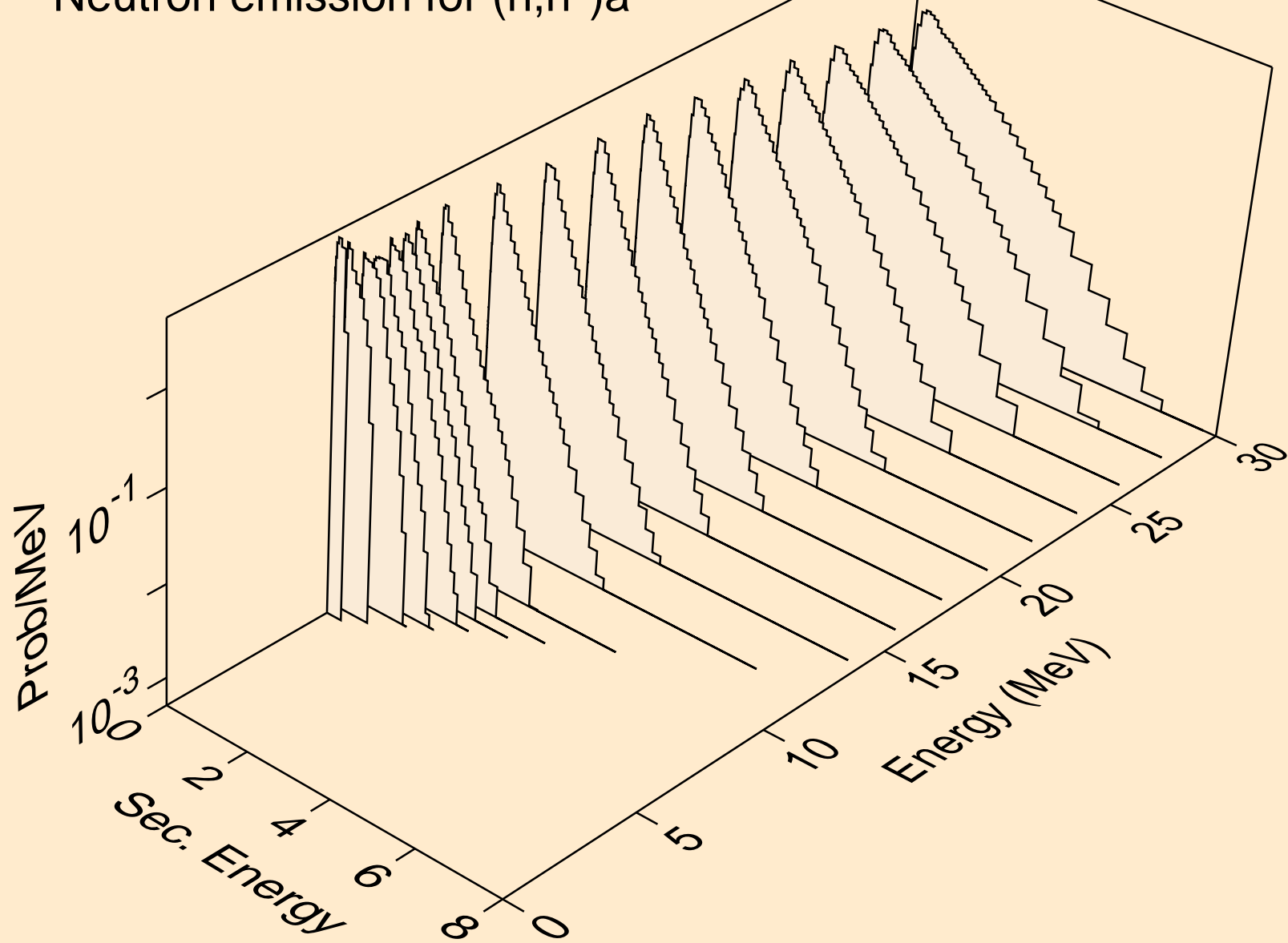
HG199 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,2n)



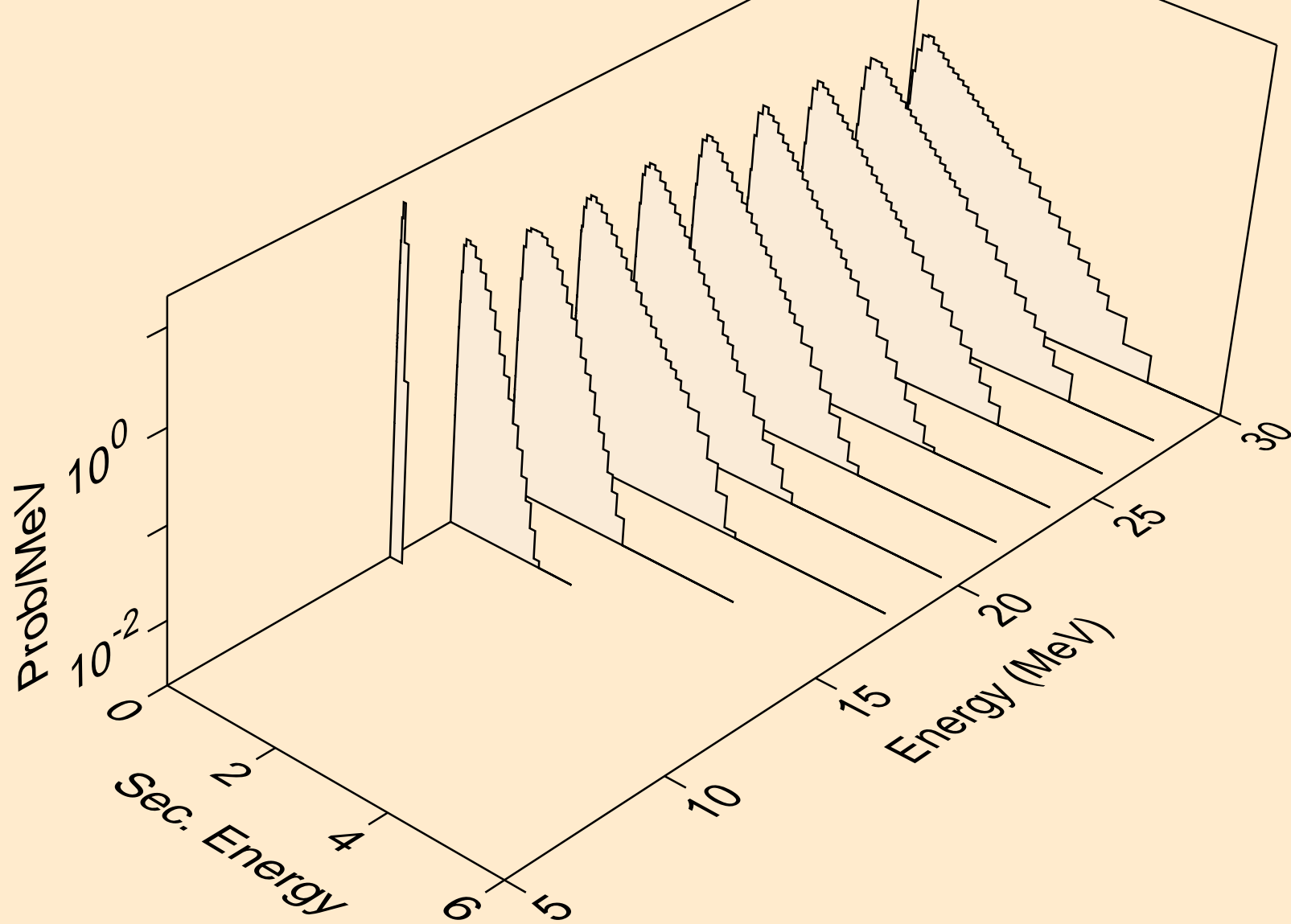
HG199 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,3n)



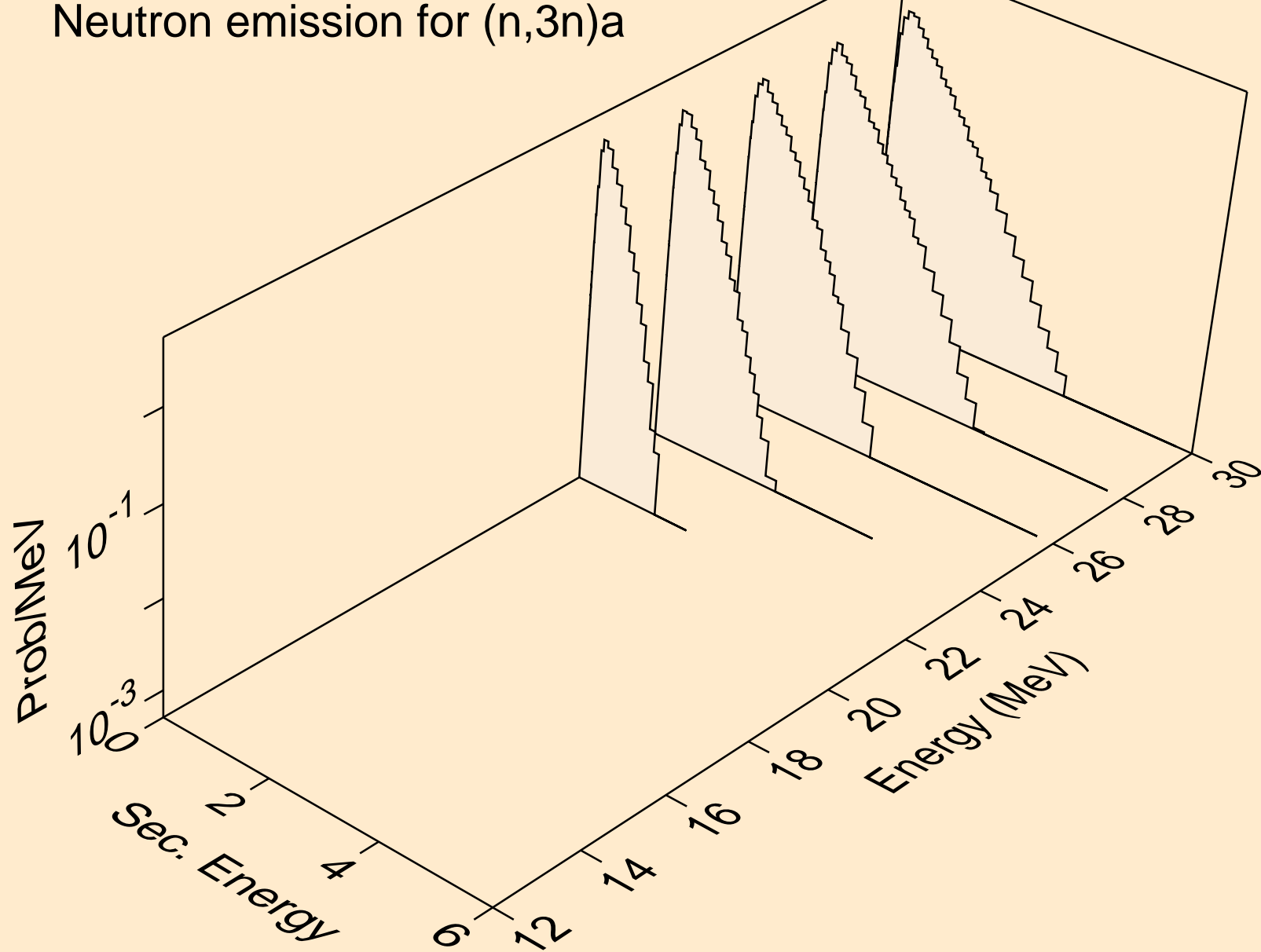
HG199 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,n\*)a



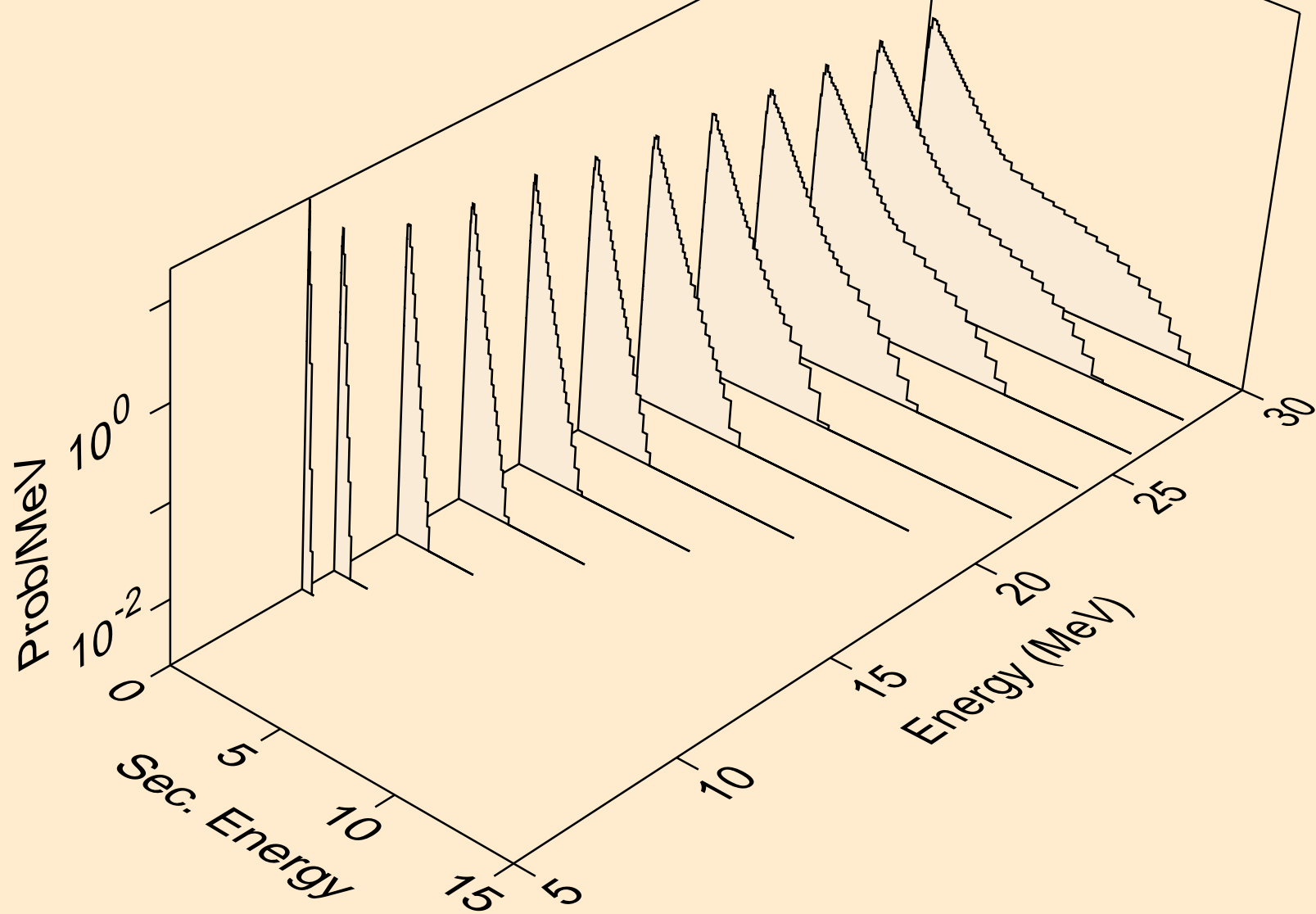
HG199 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,2n)a



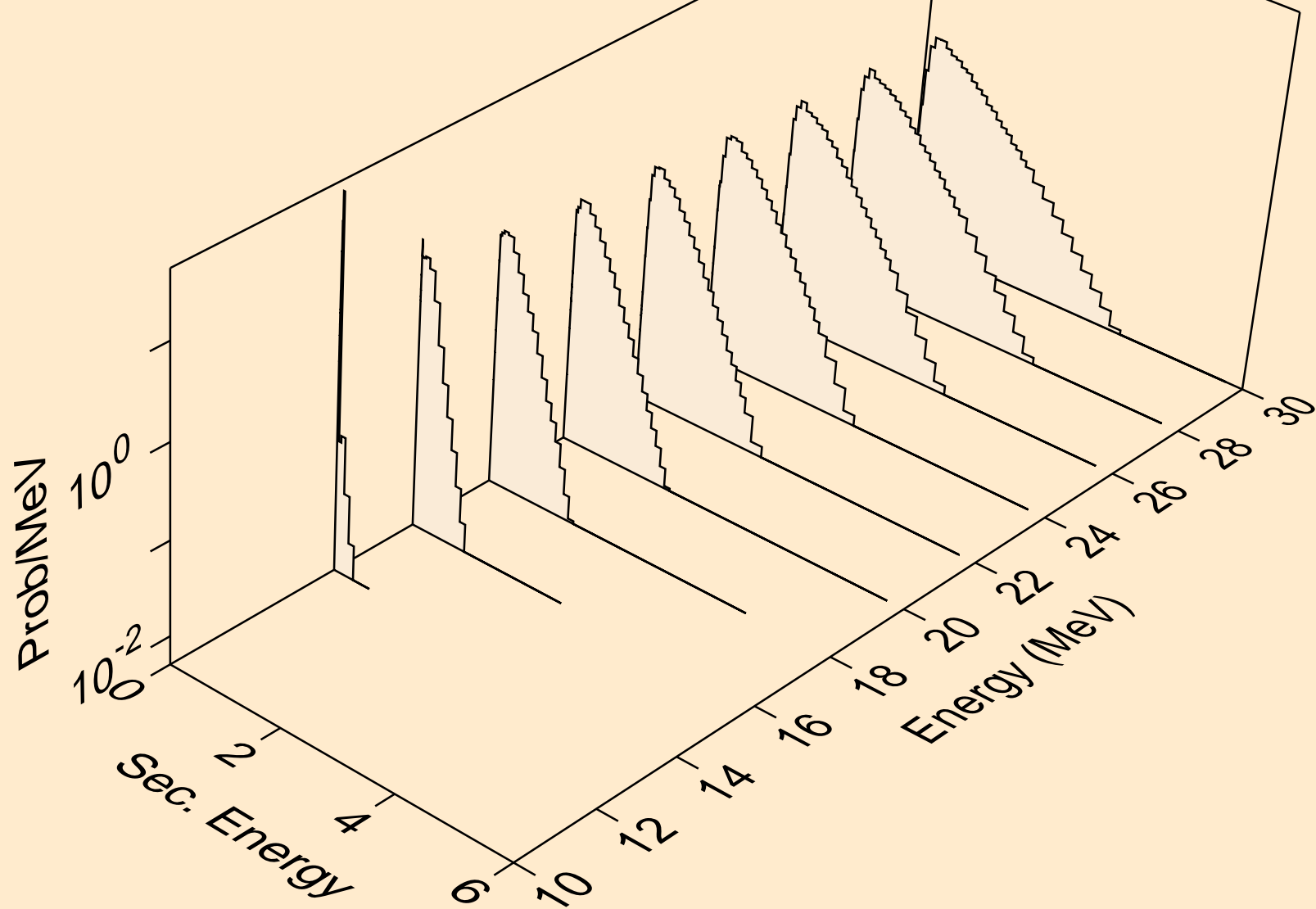
HG199 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,3n)a



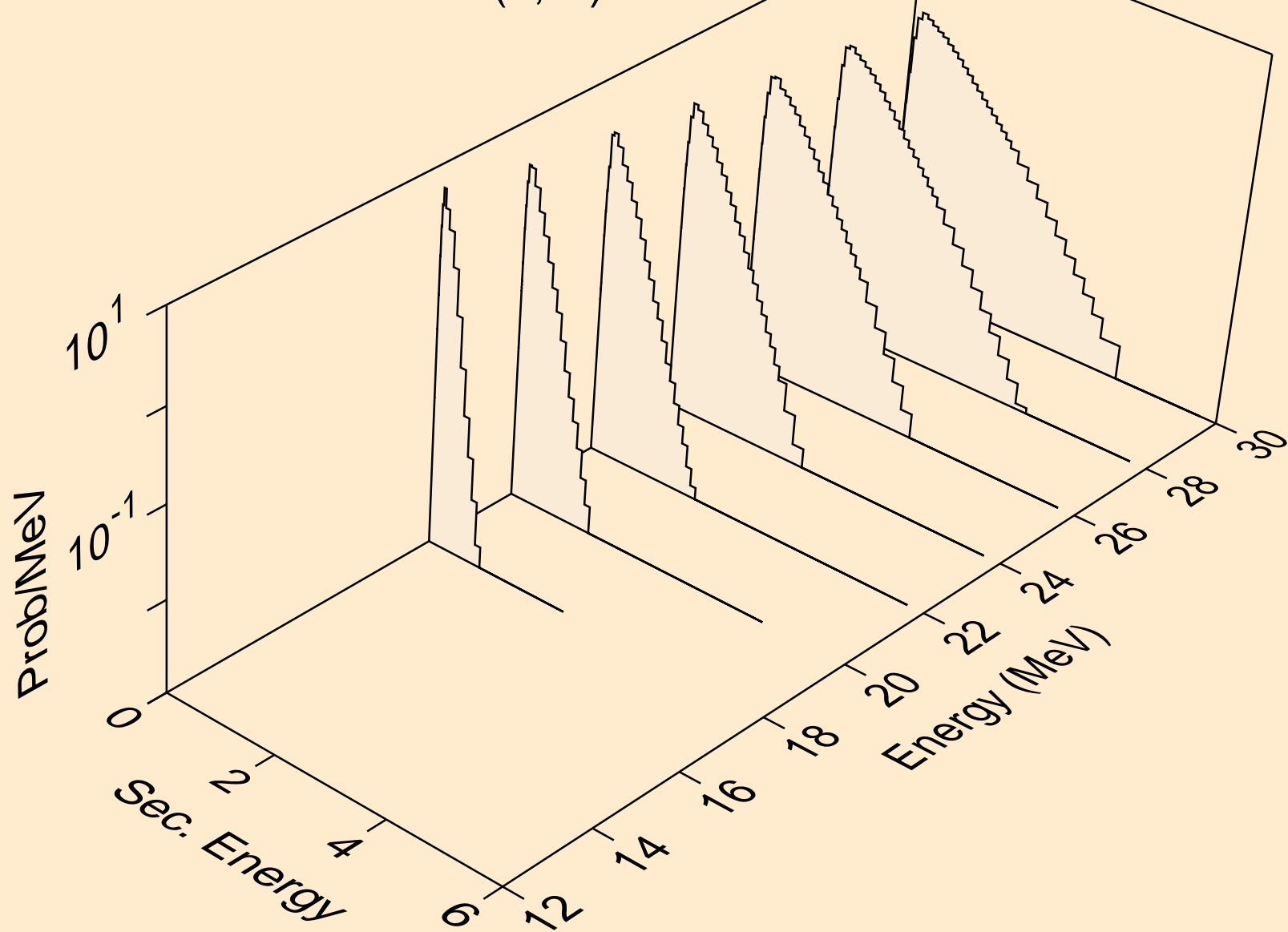
HG199 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,n\*)p



HG199 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,n\*)d

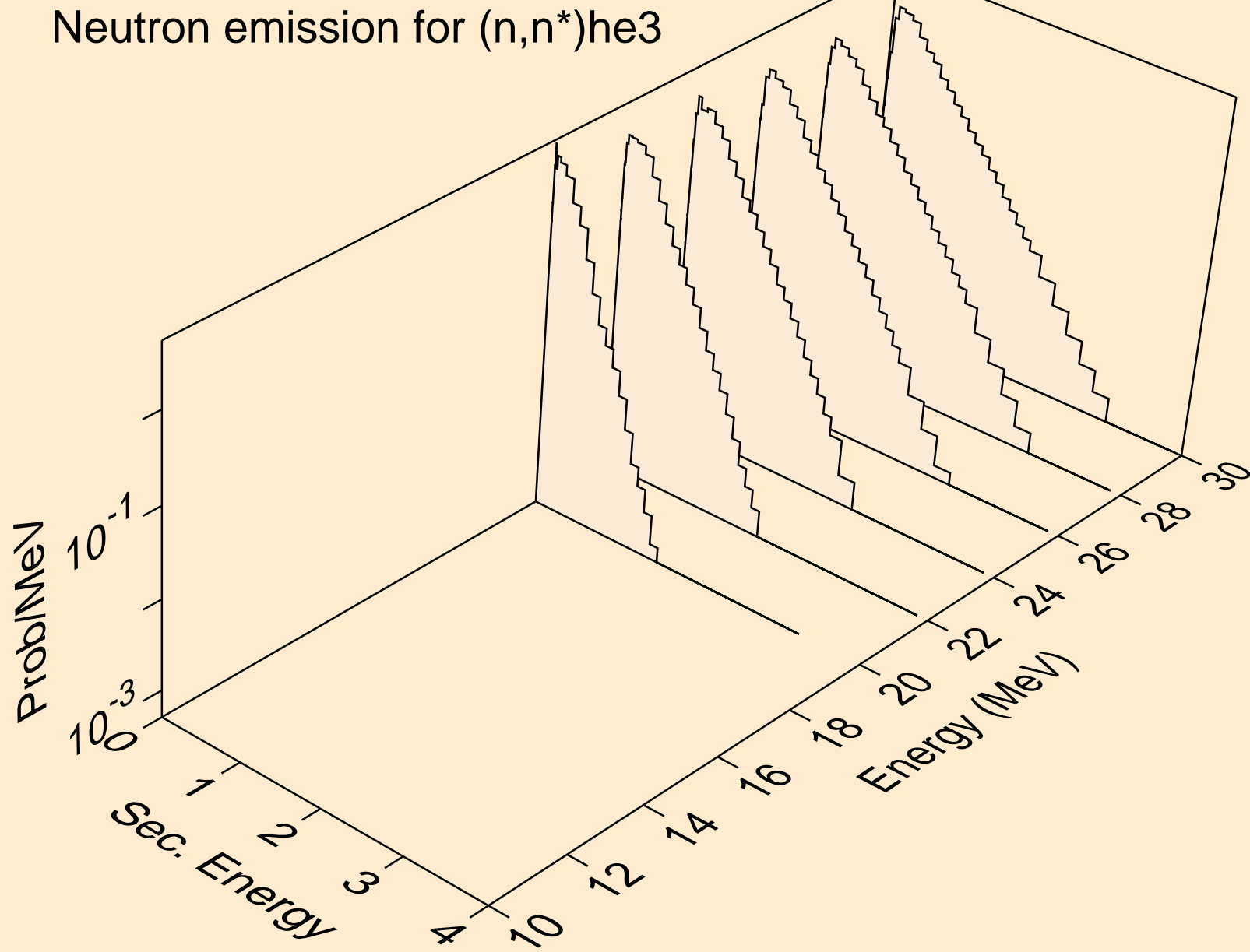


HG199 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,n\*)t

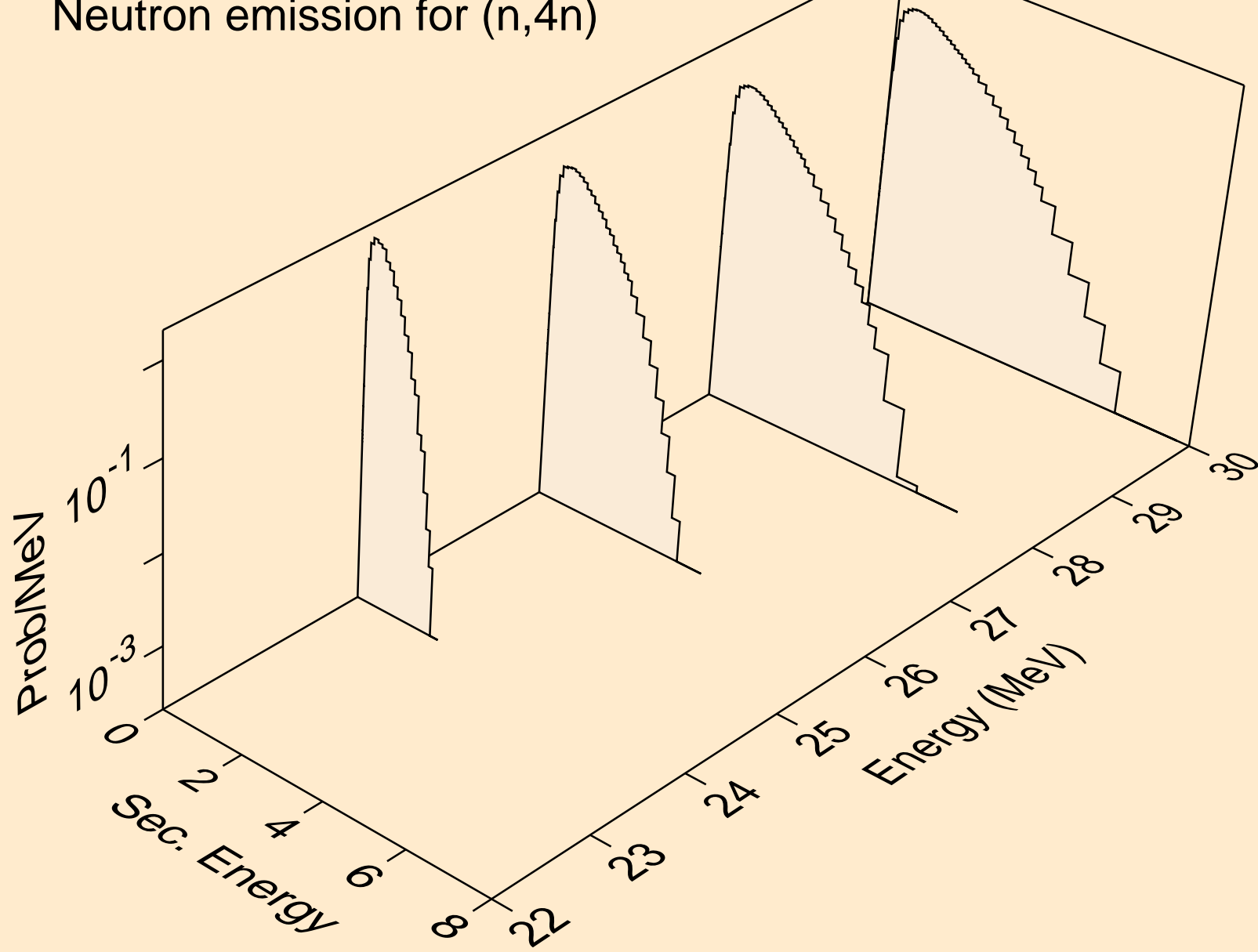




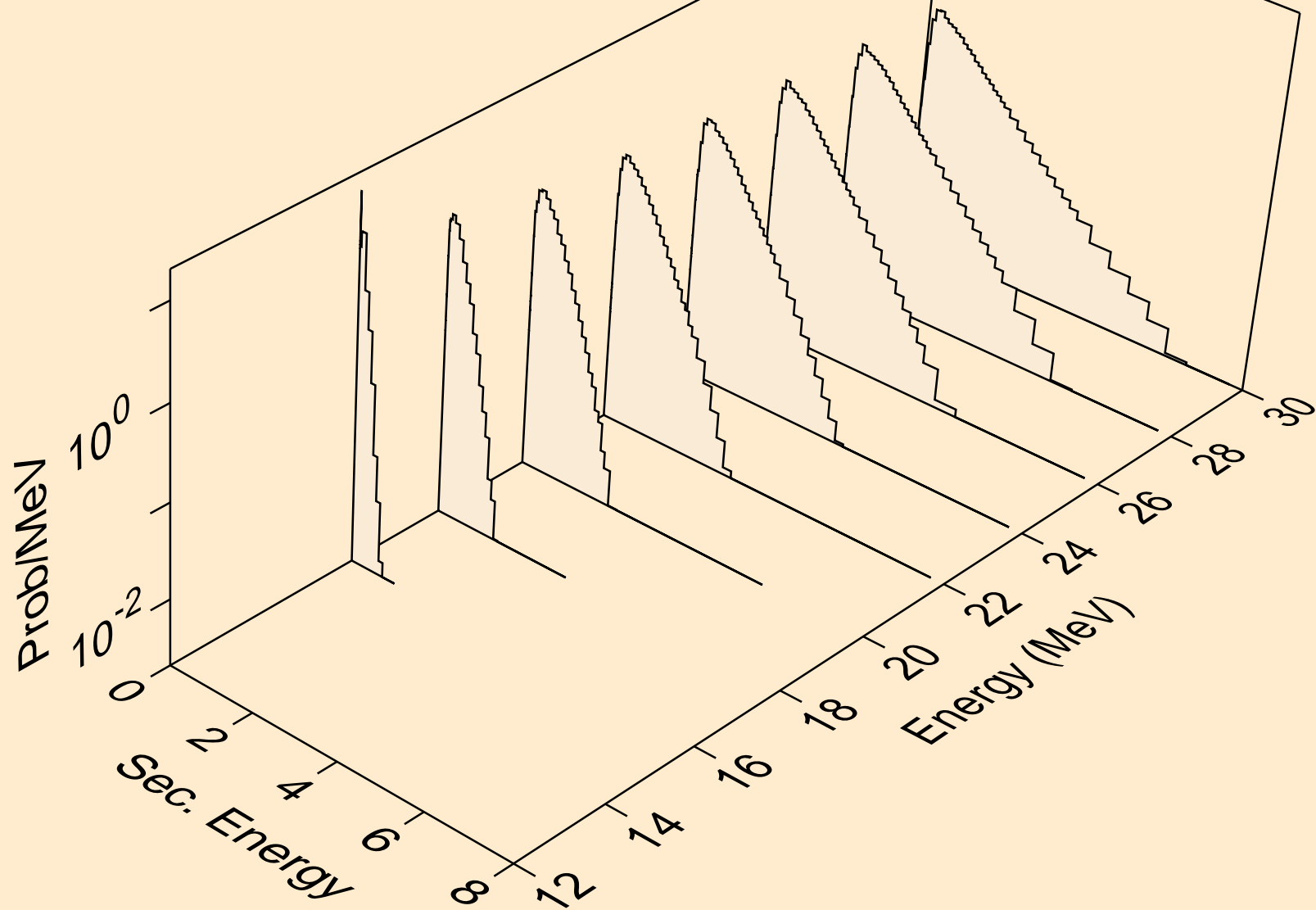
HG199 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,n\*)he3



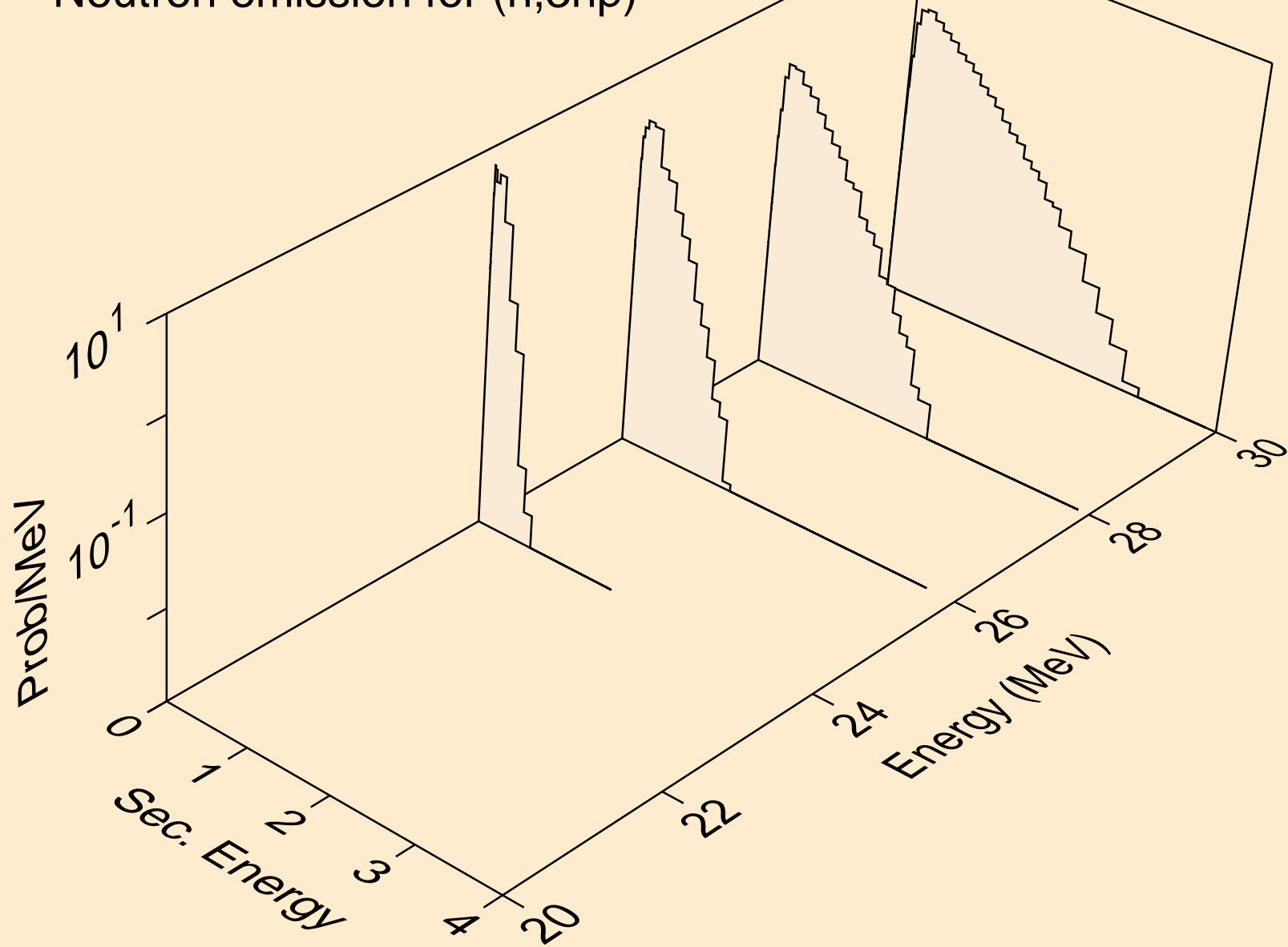
HG199 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,4n)



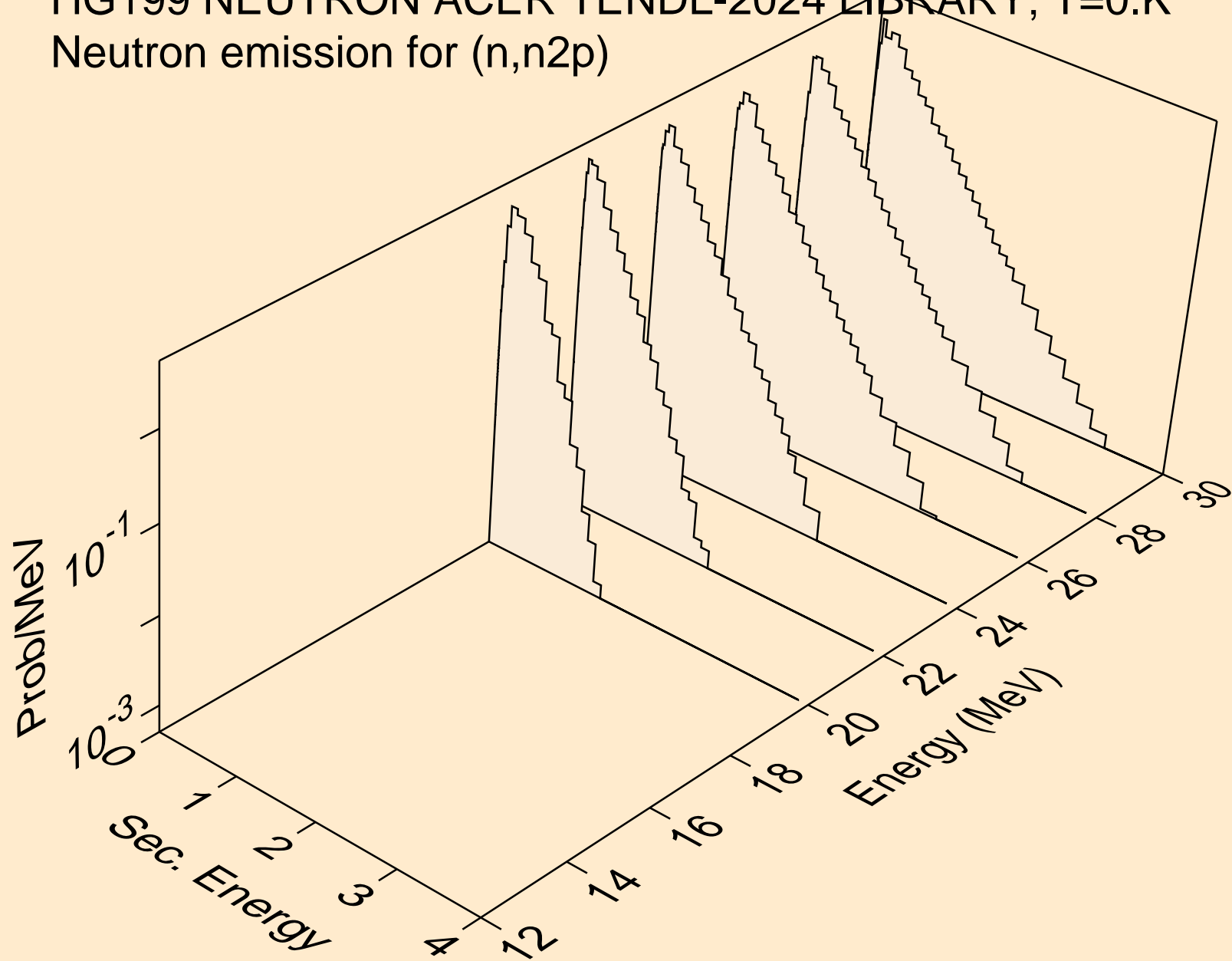
HG199 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,2np)



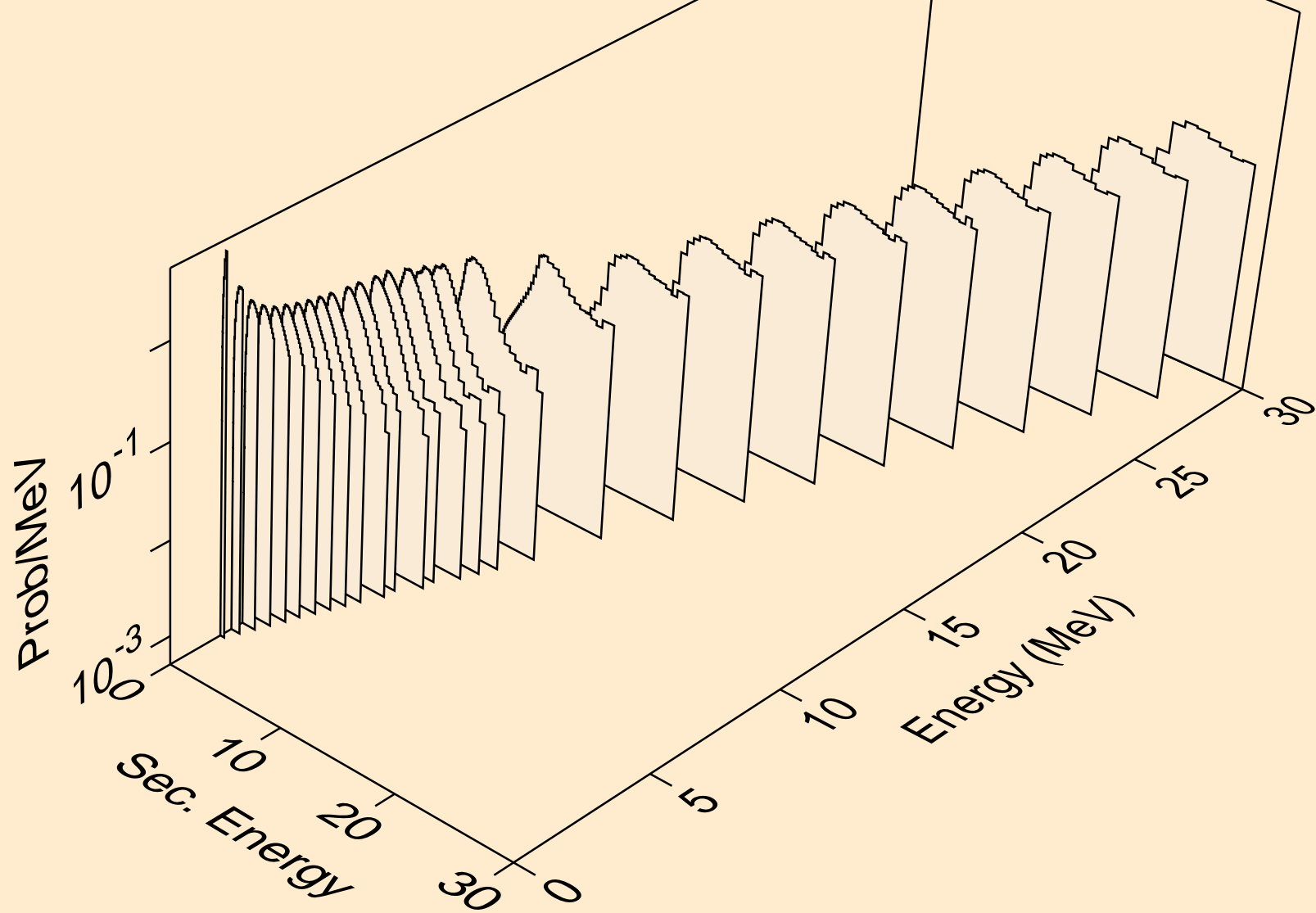
HG199 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,3np)



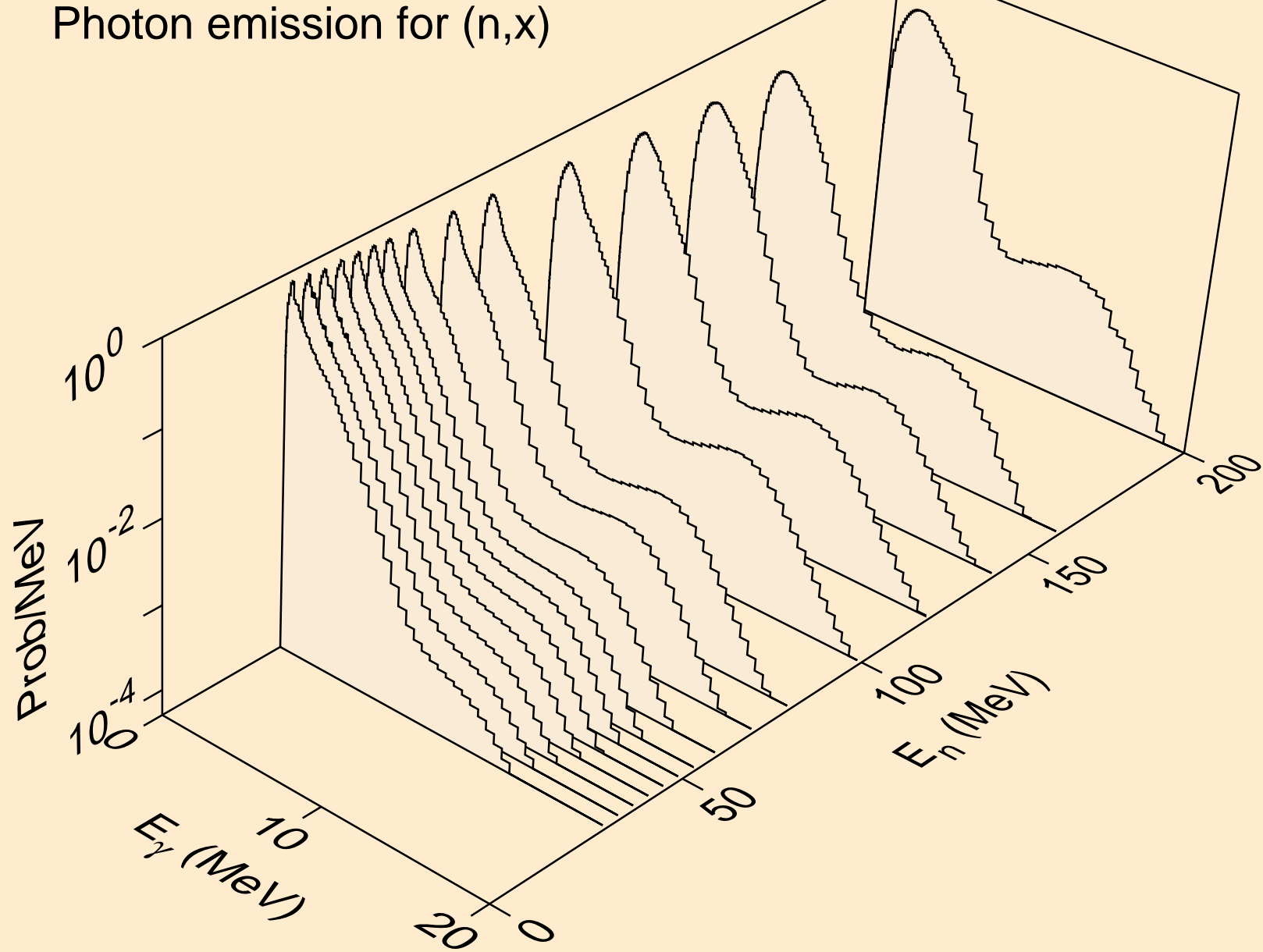
HG199 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,n2p)



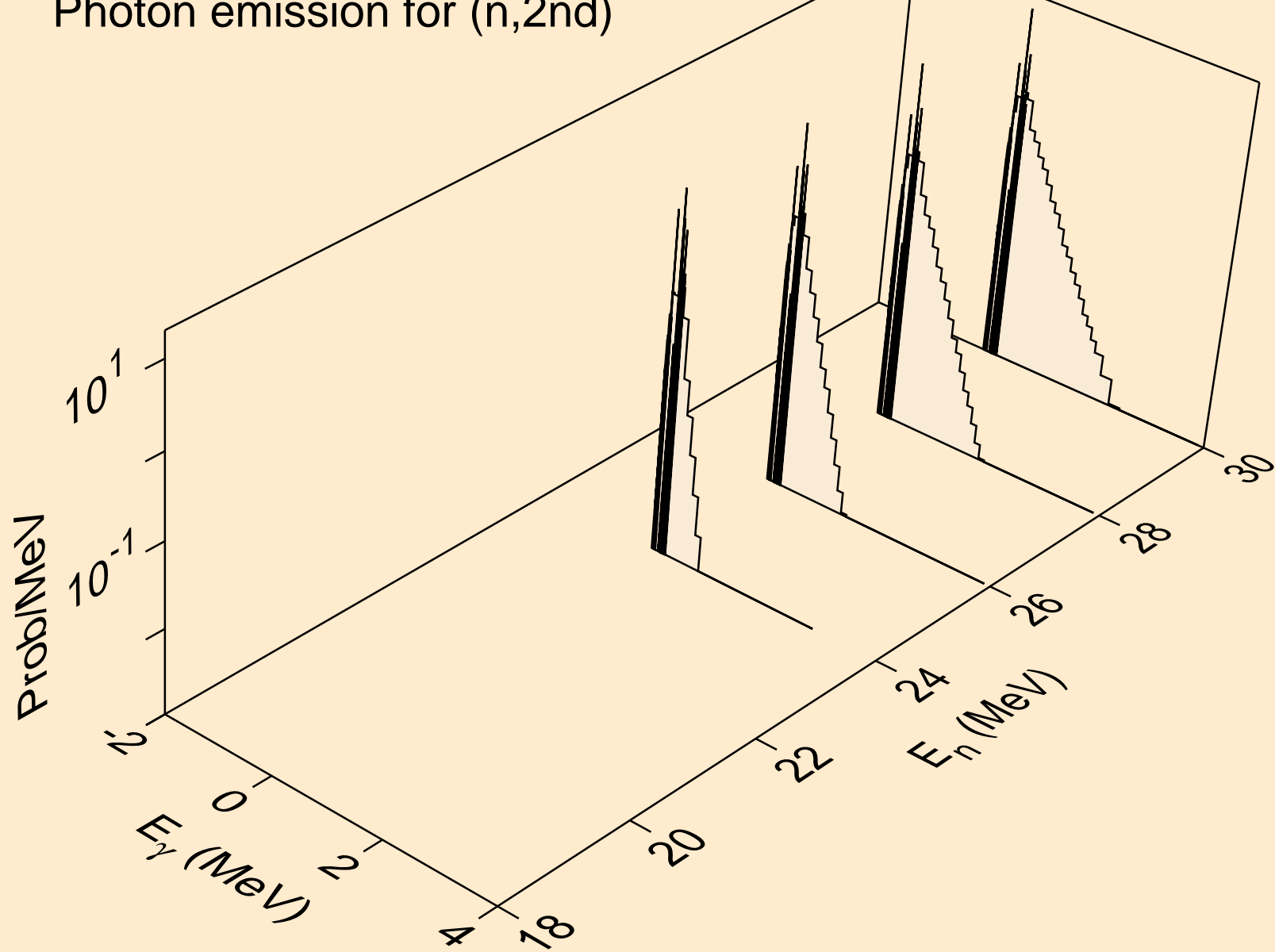
HG199 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,n\*c)



HG199 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,x)

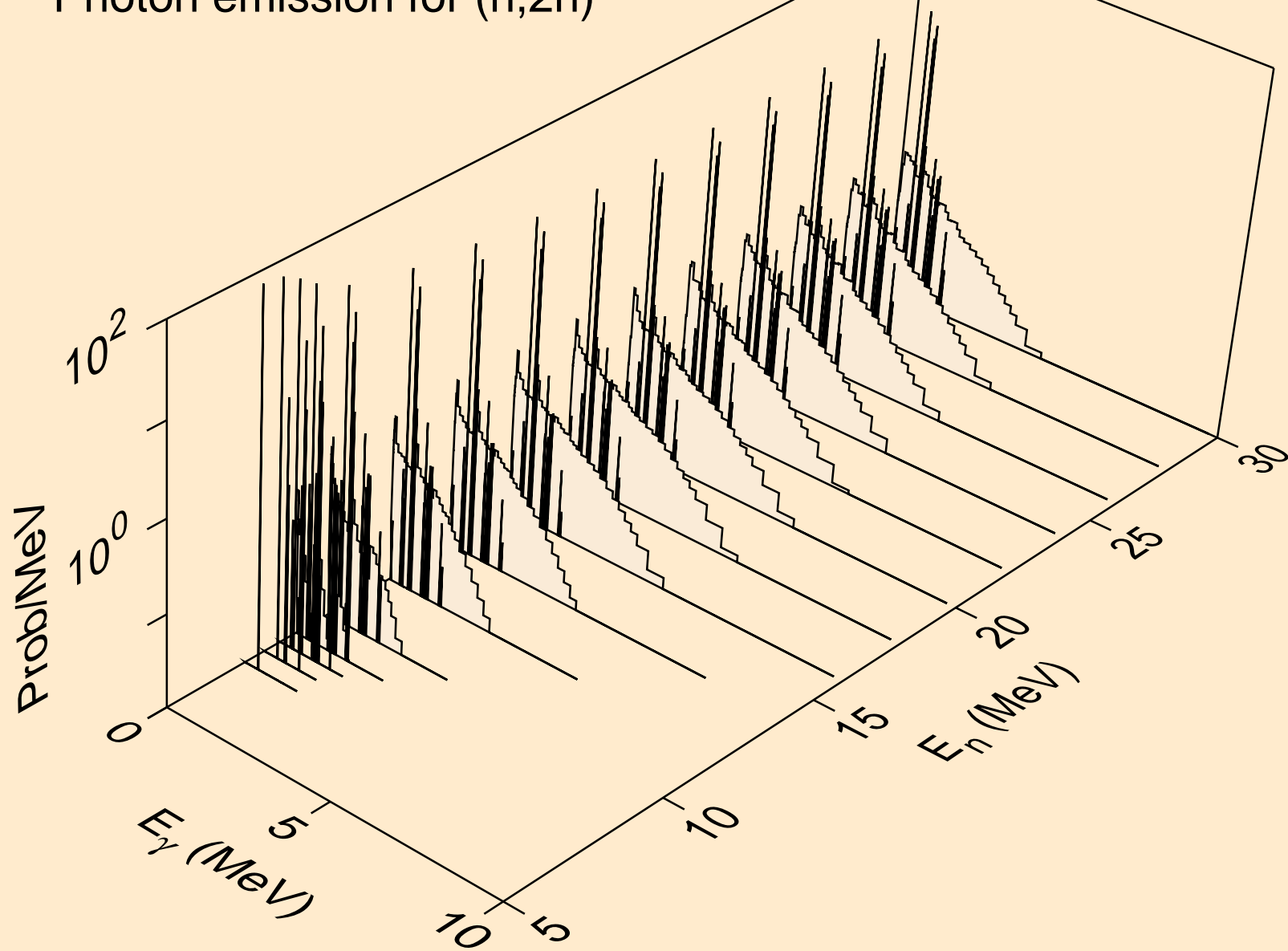


HG199 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,2nd)

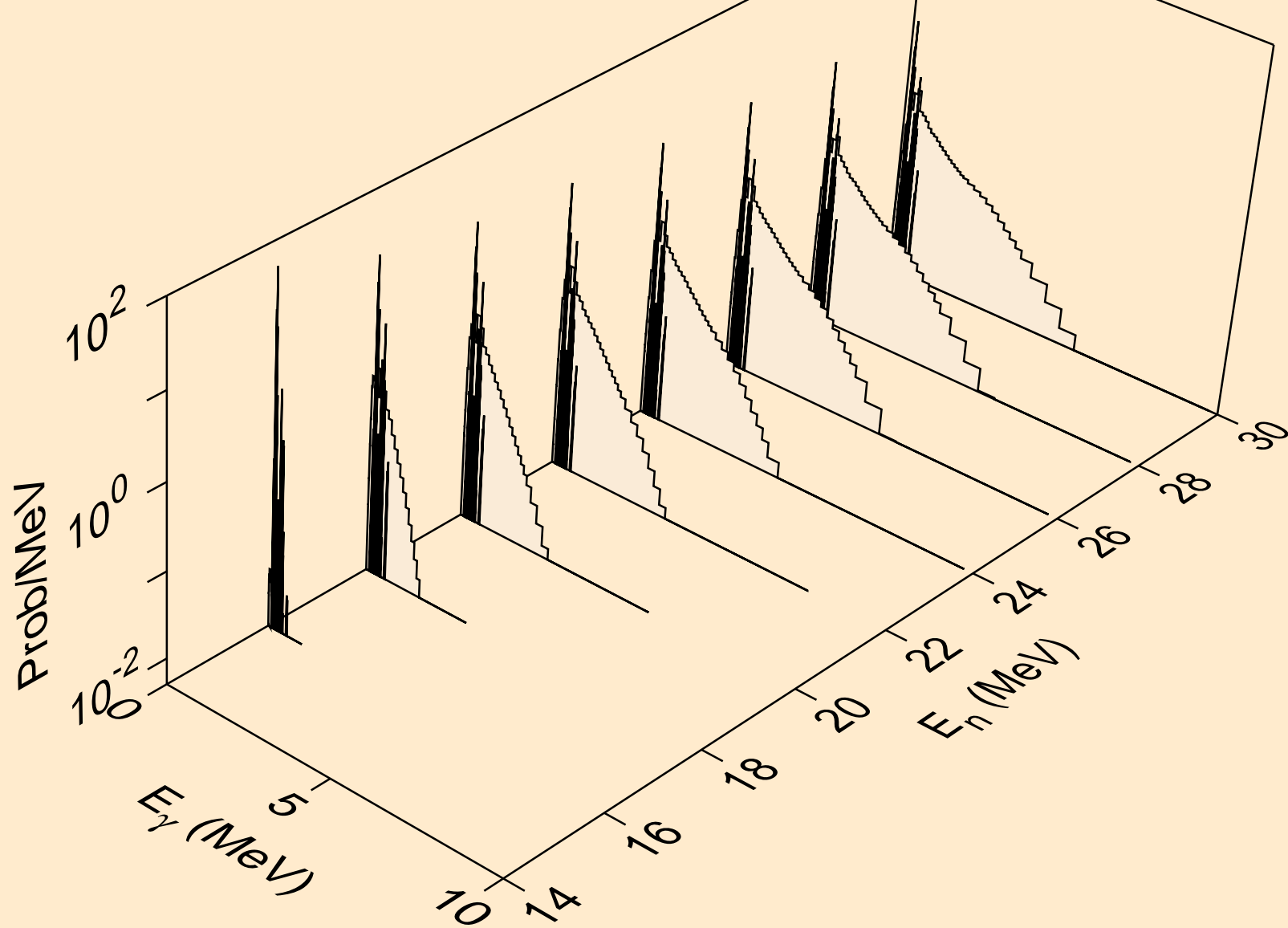




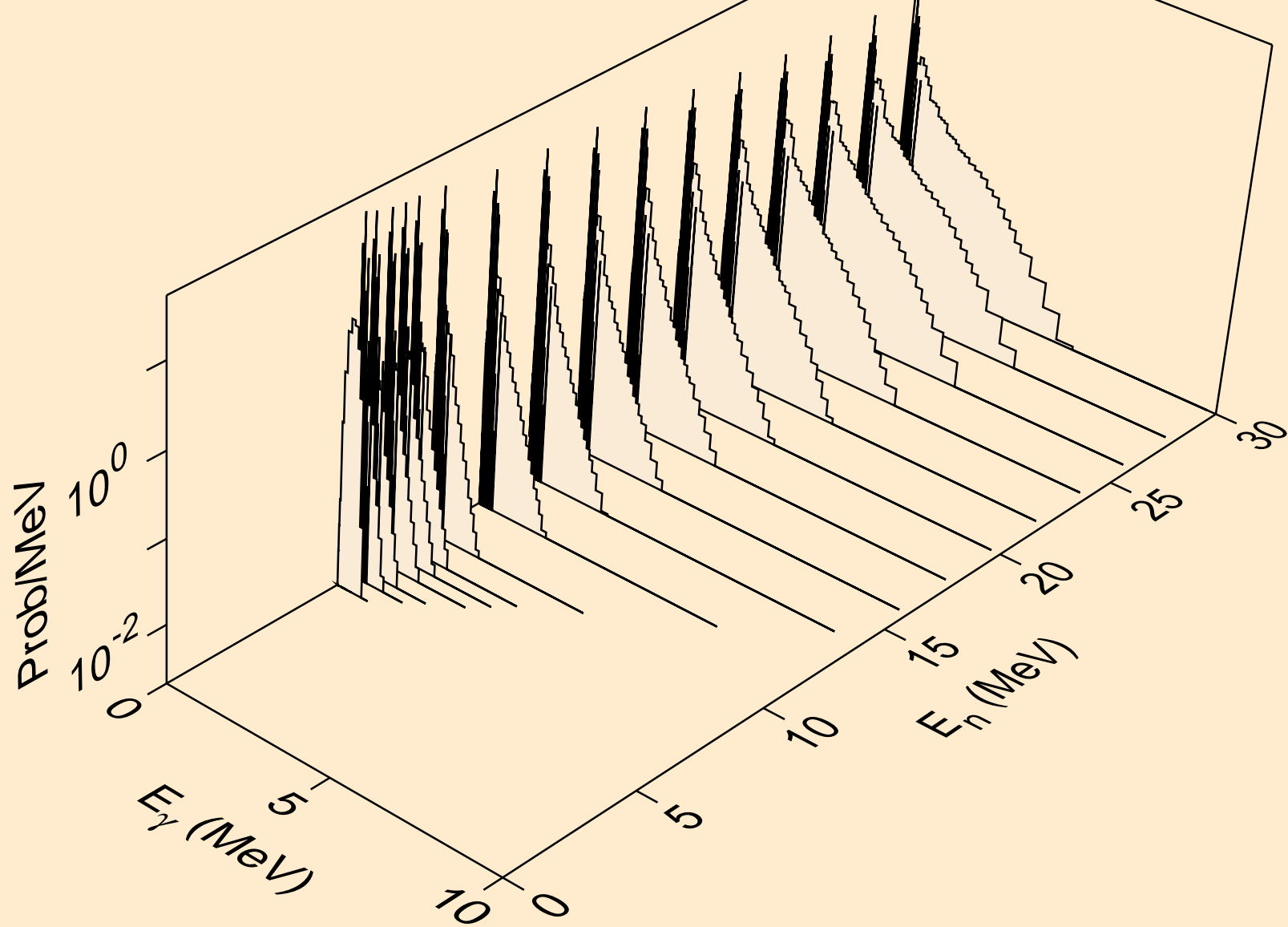
HG199 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,2n)



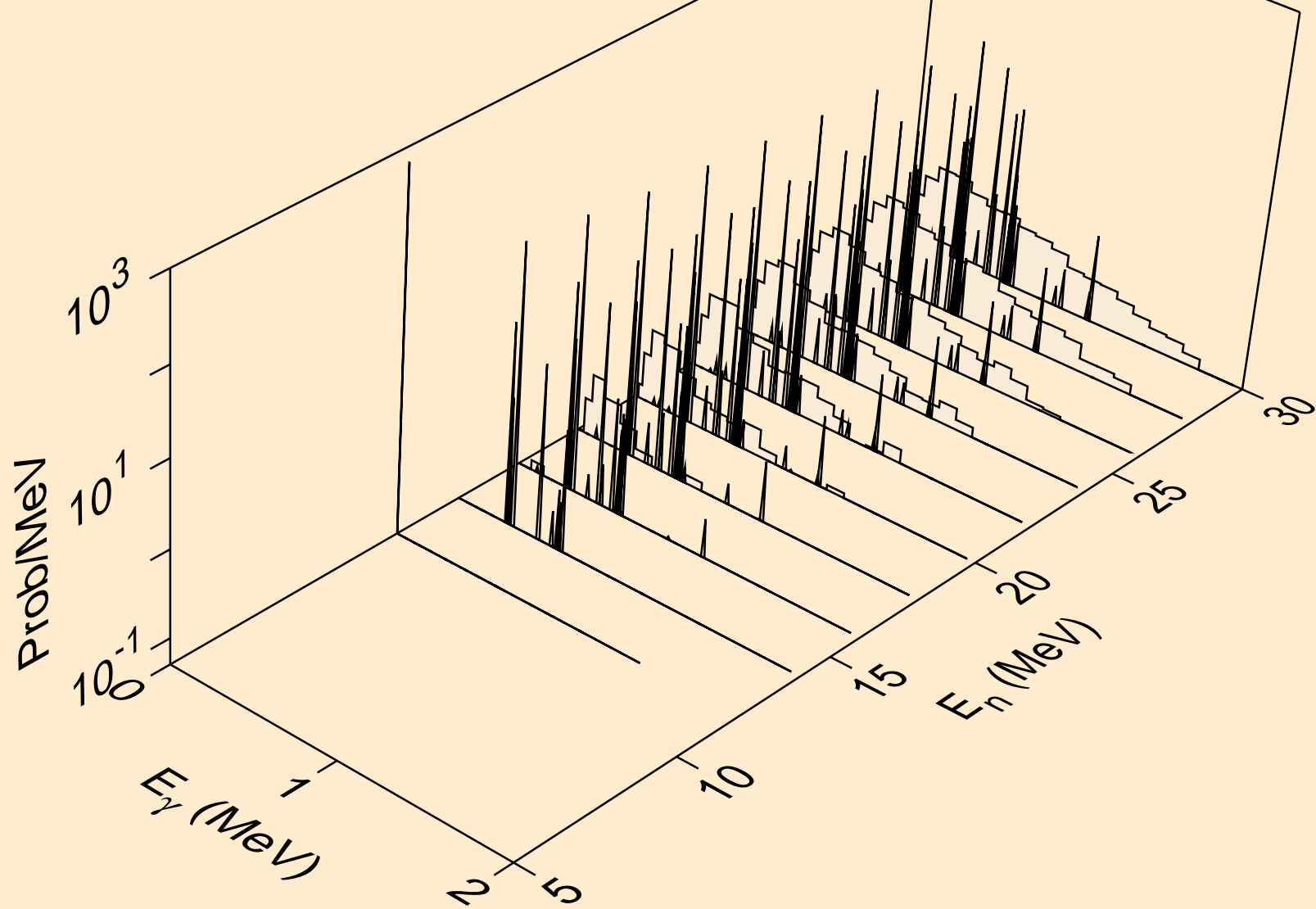
HG199 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,3n)



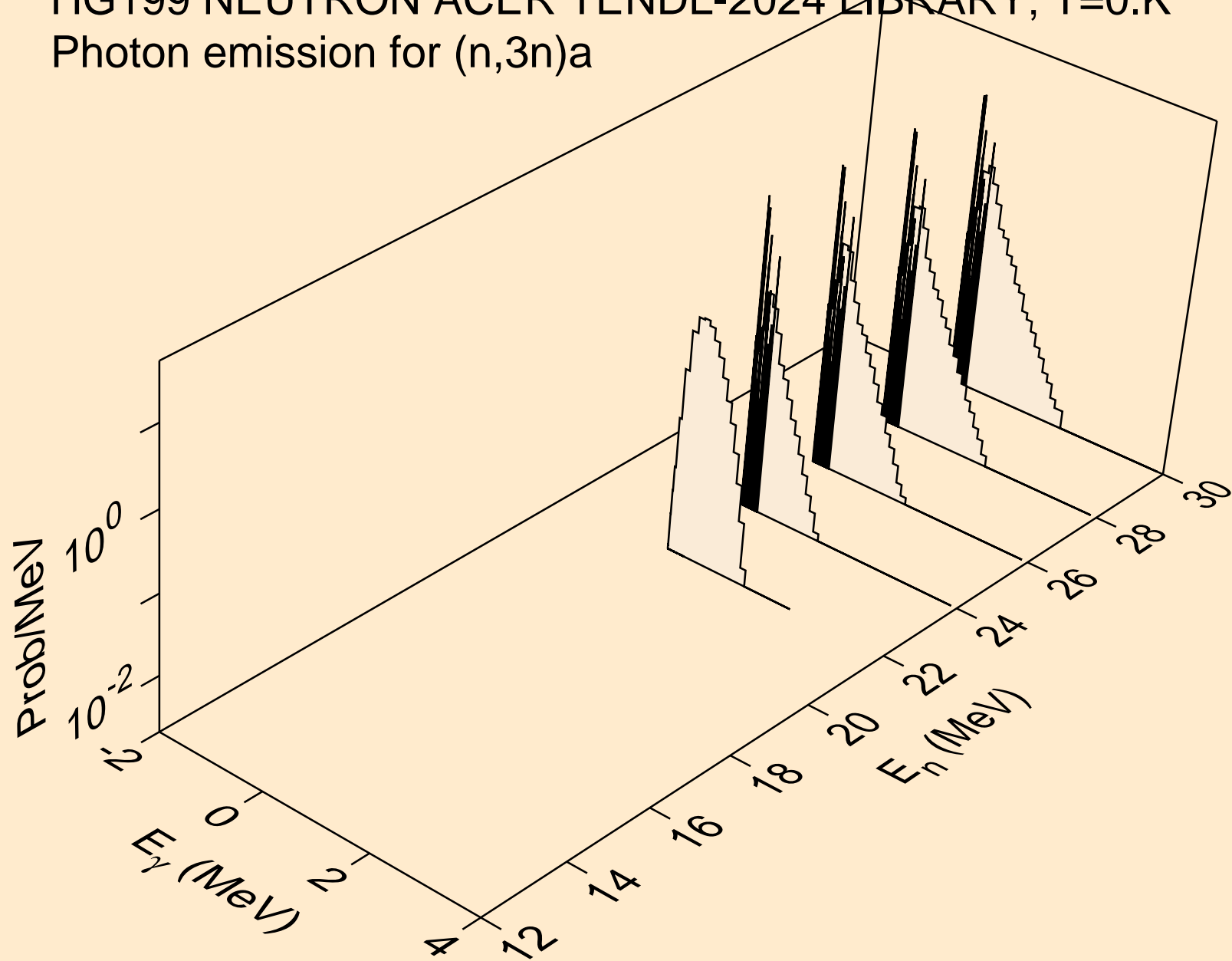
HG199 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,n\*)a



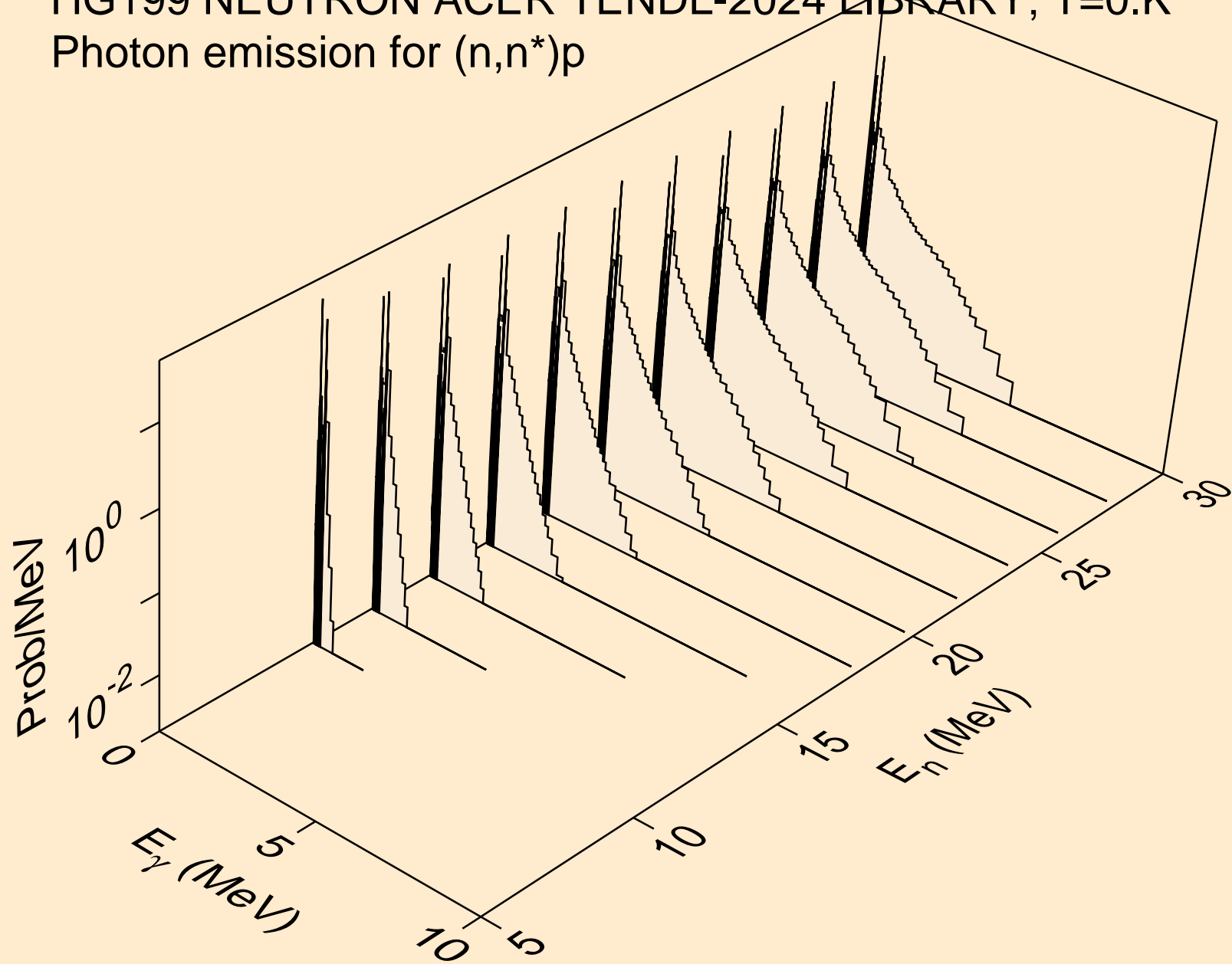
HG199 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,2n)a



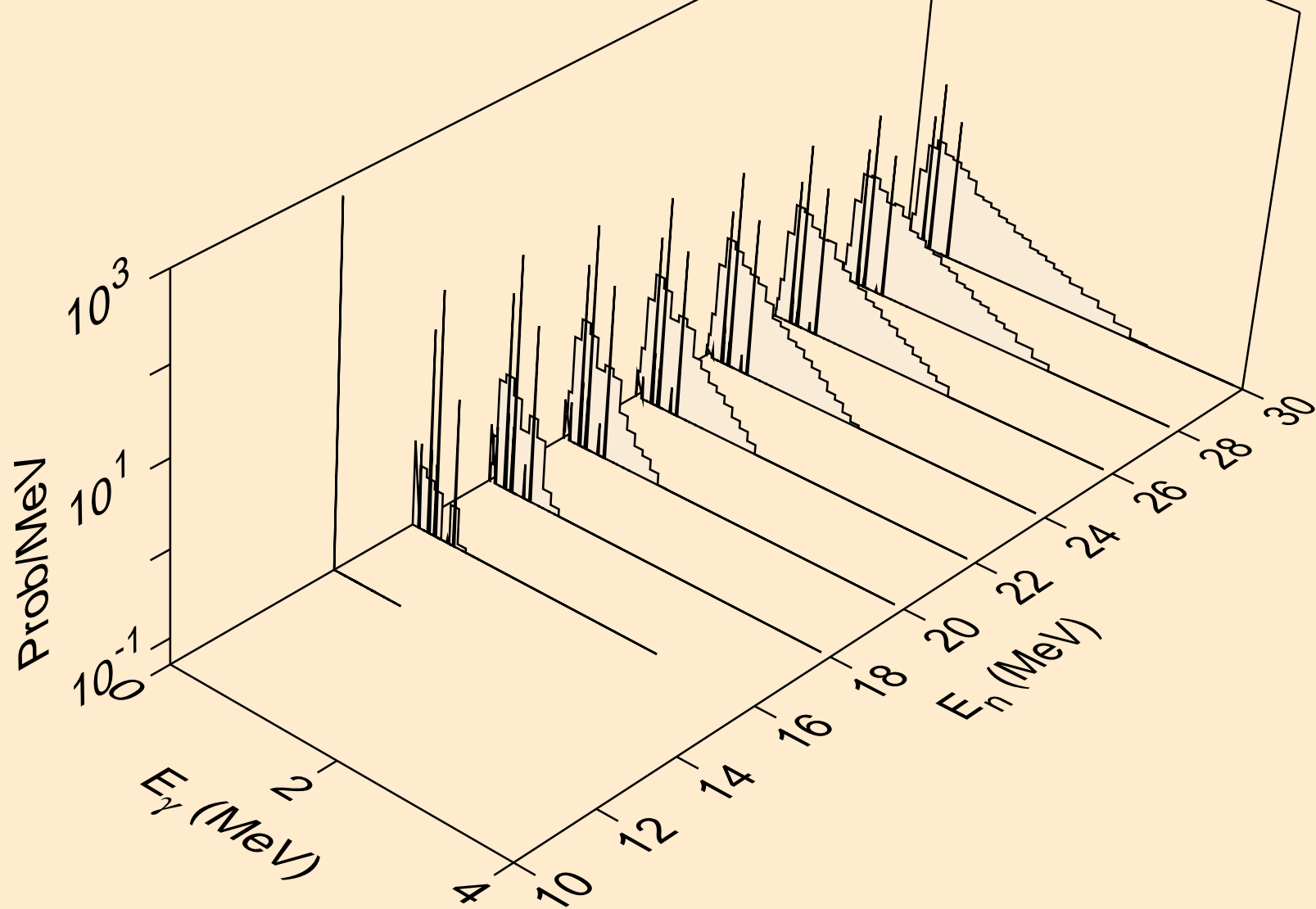
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Photon emission for (n,3n)a



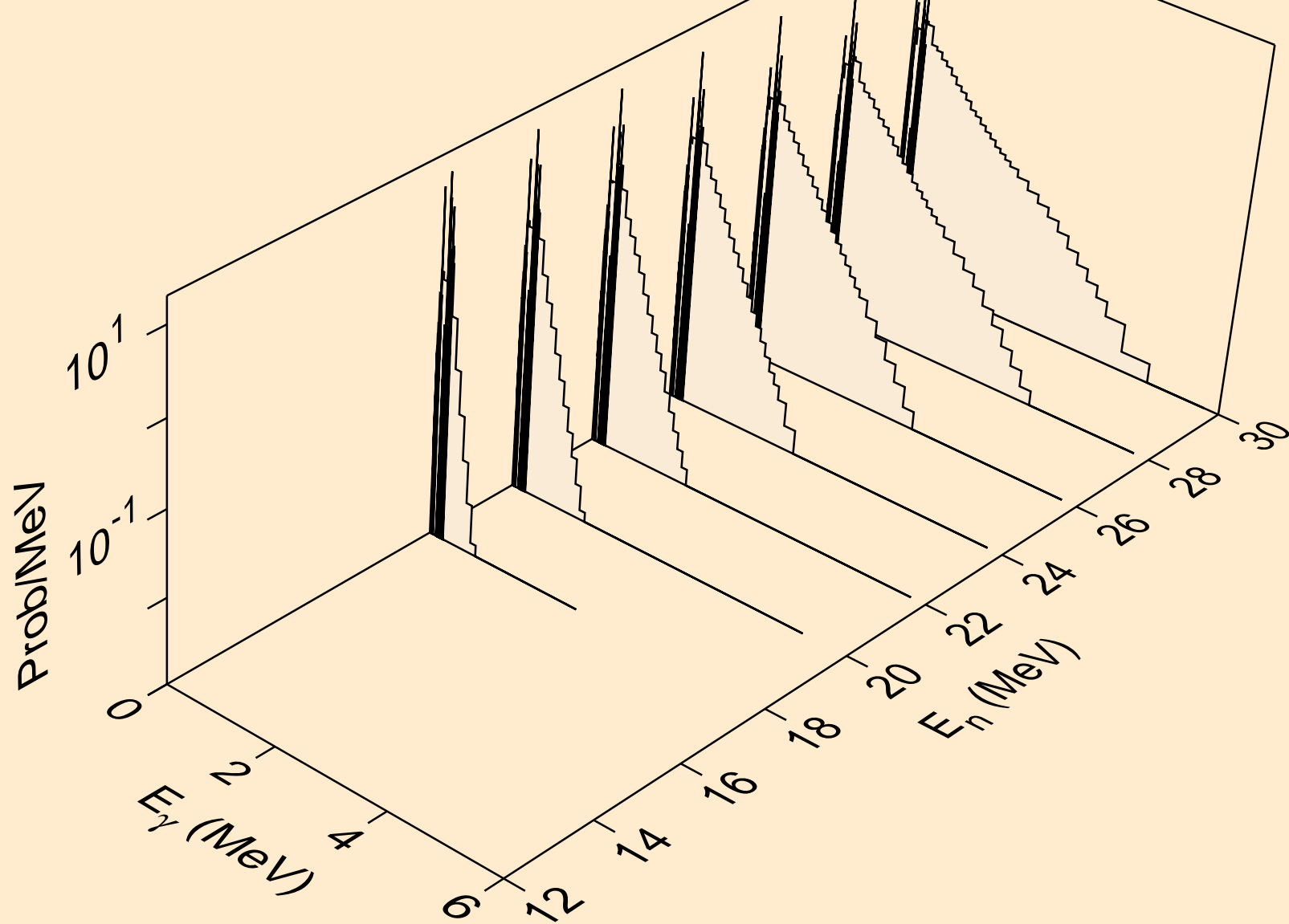
HG199 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,n\*)p



HG199 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,n\*)d

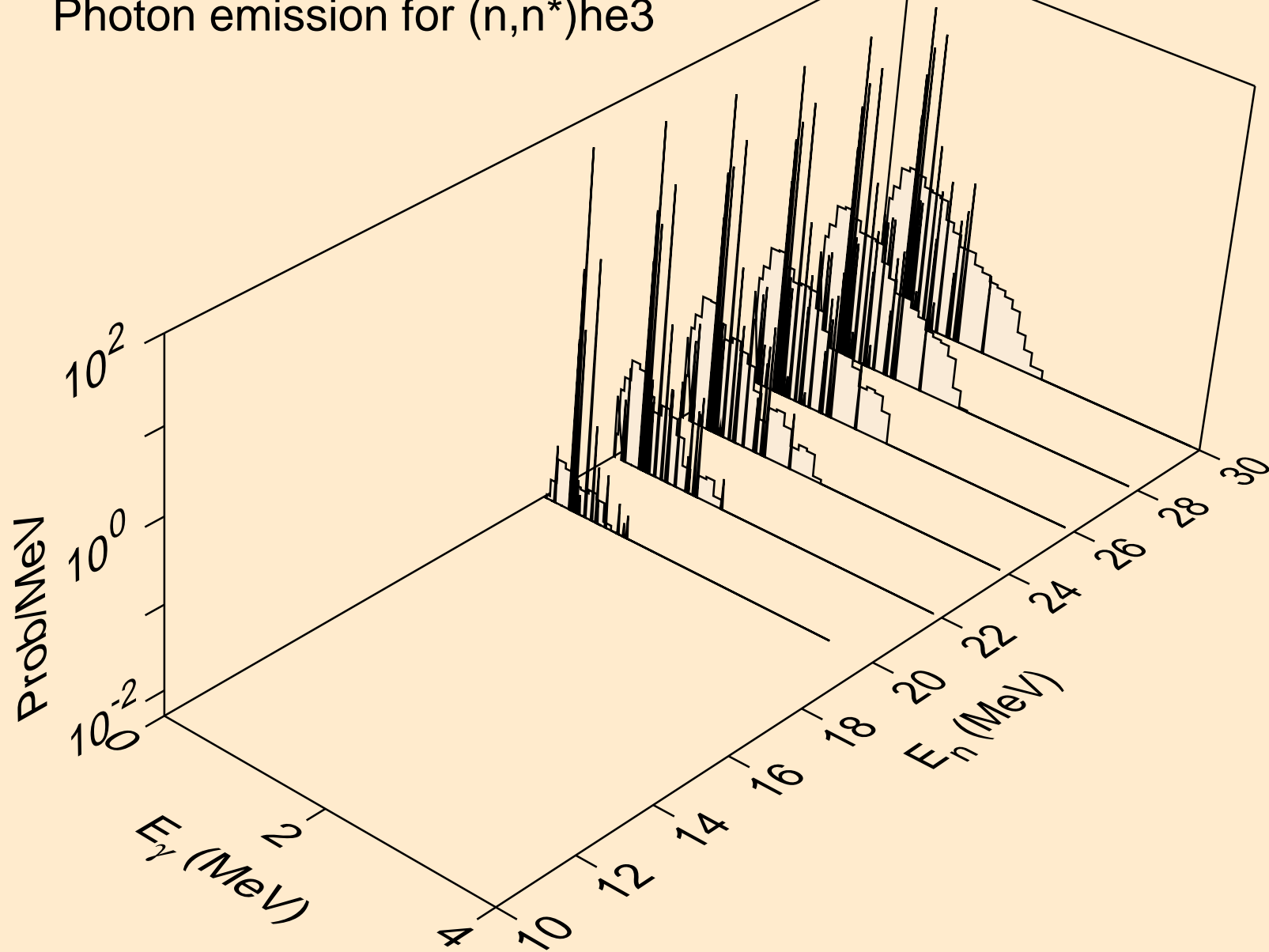


HG199 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,n\*)t

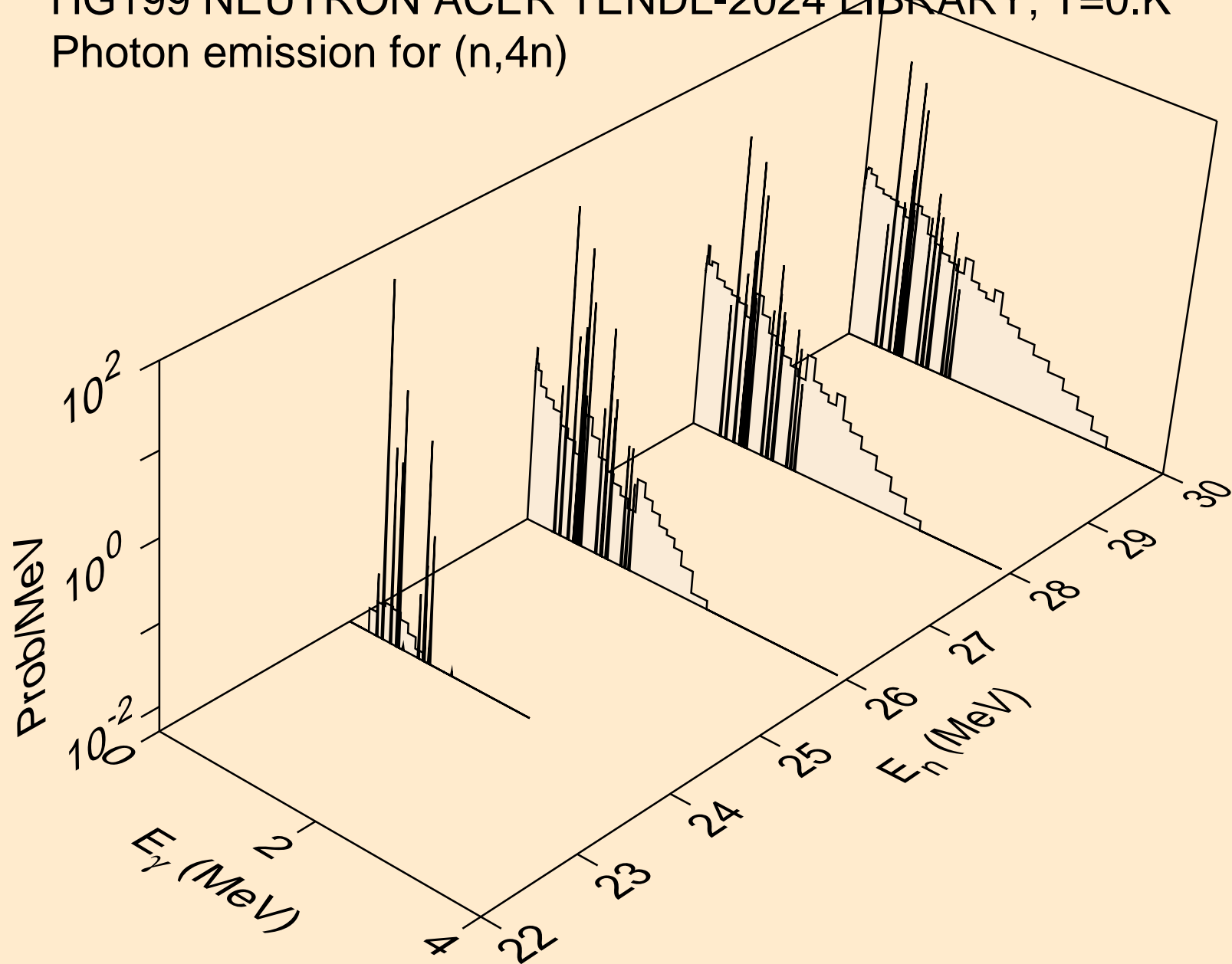




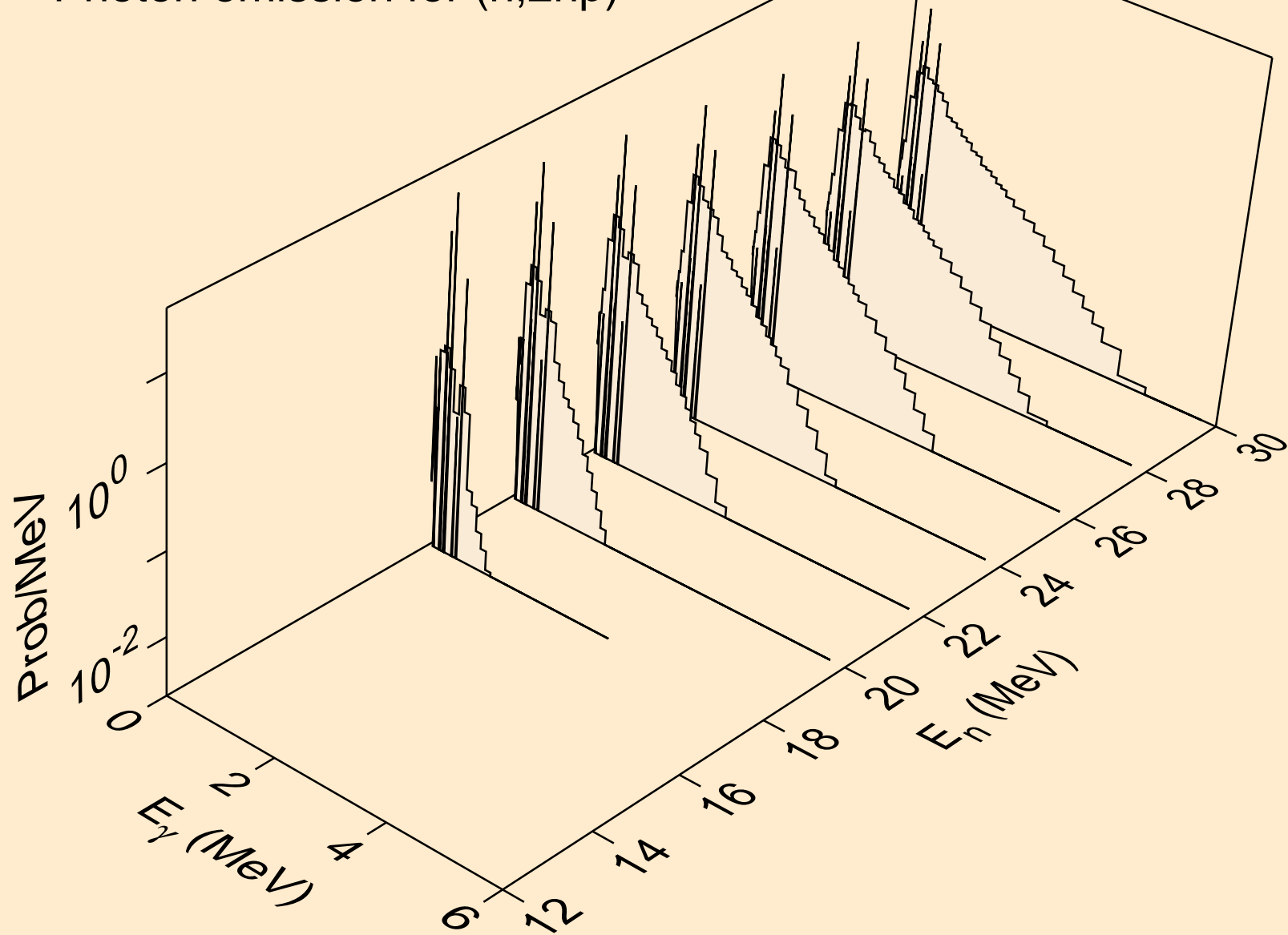
HG199 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,n\*)he3



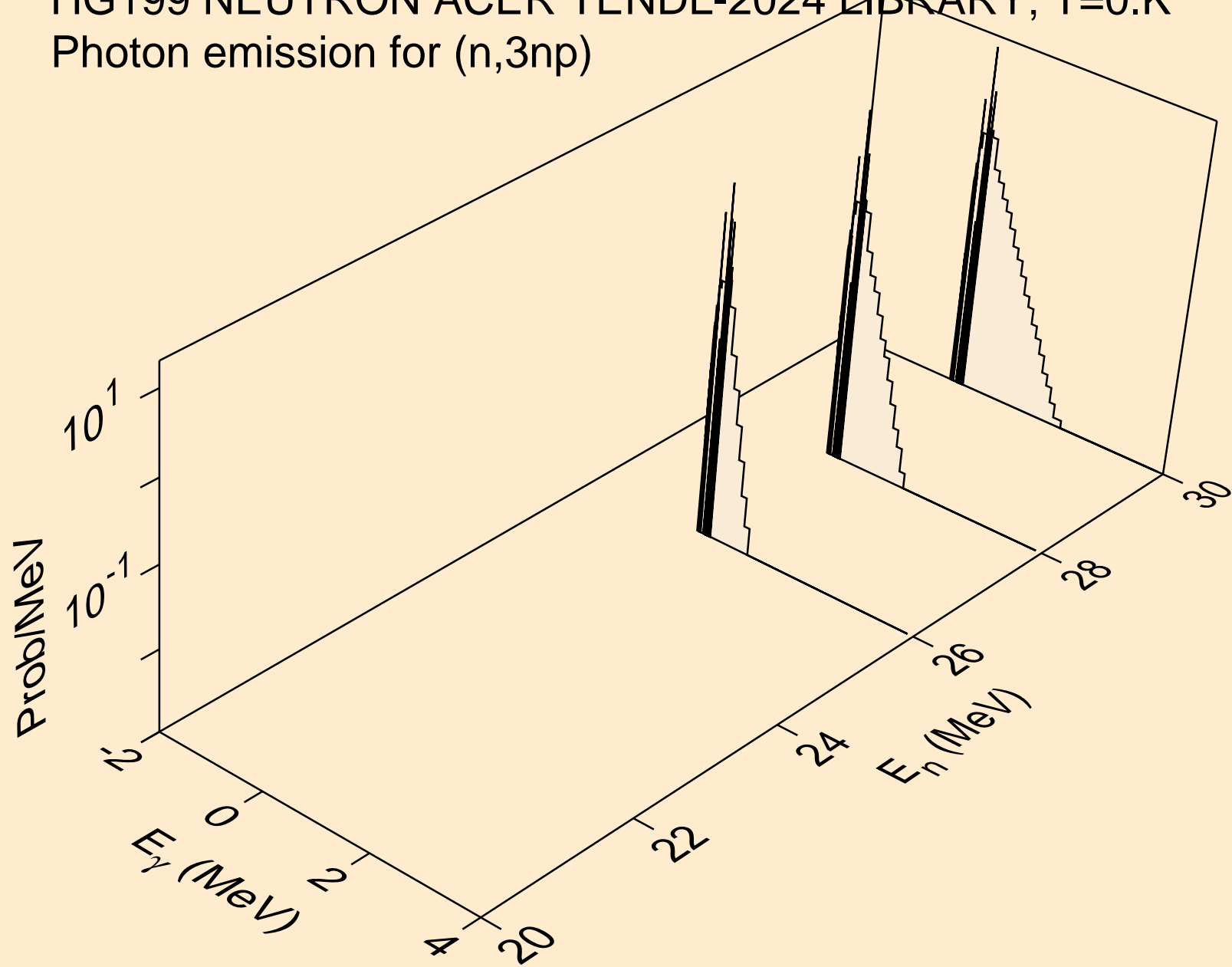
HG199 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,4n)



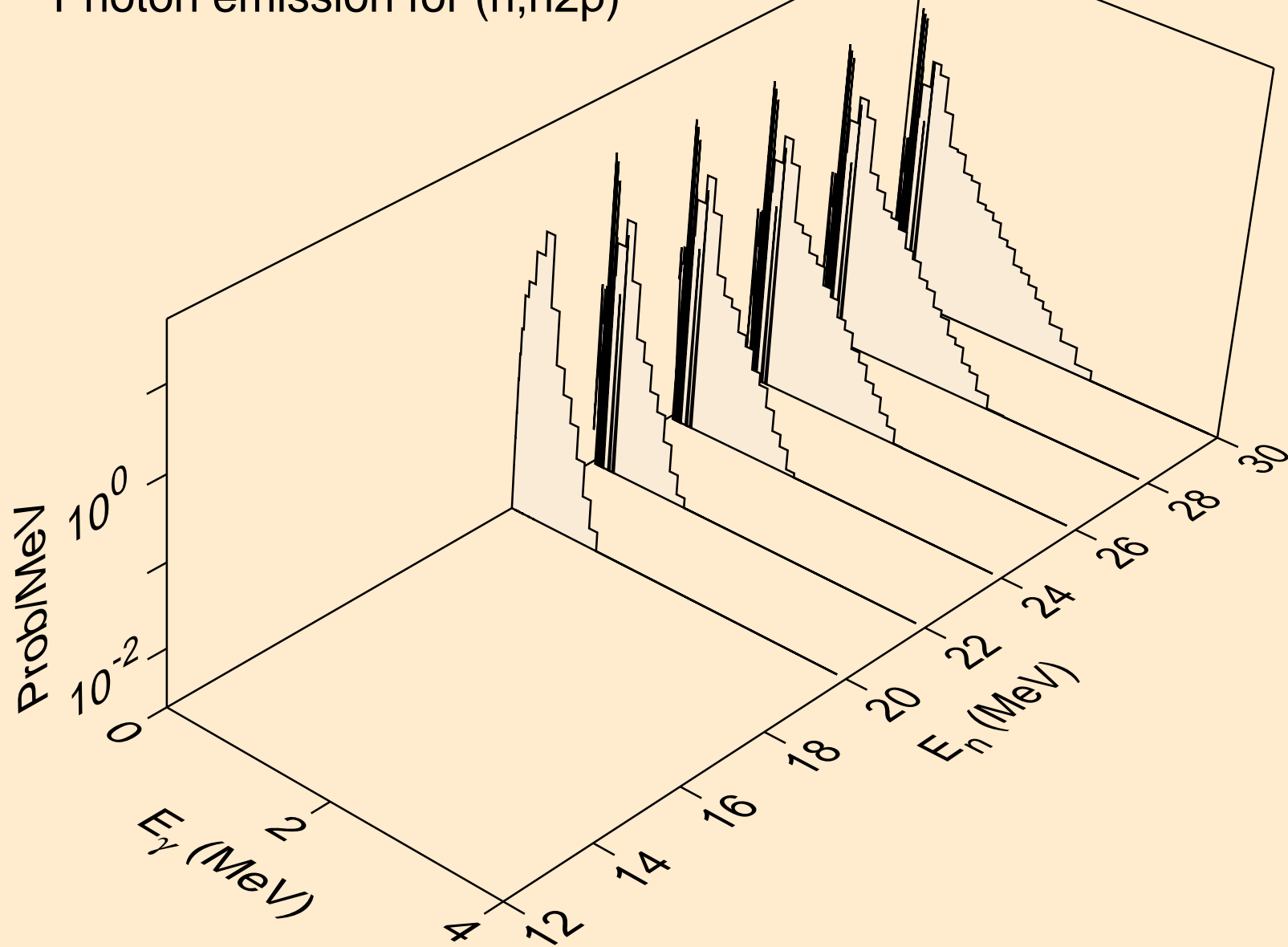
HG199 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,2np)



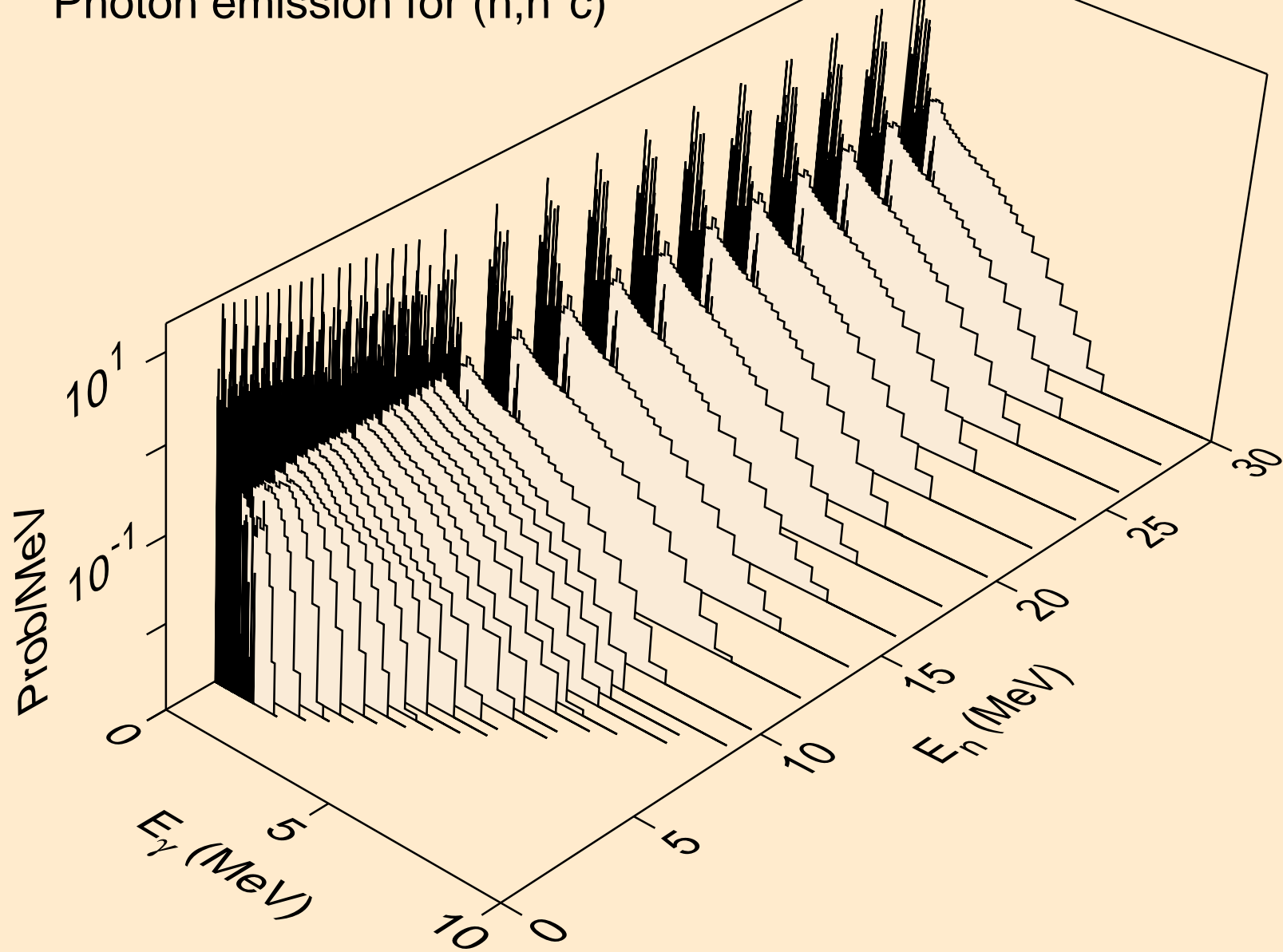
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Photon emission for (n,3np)



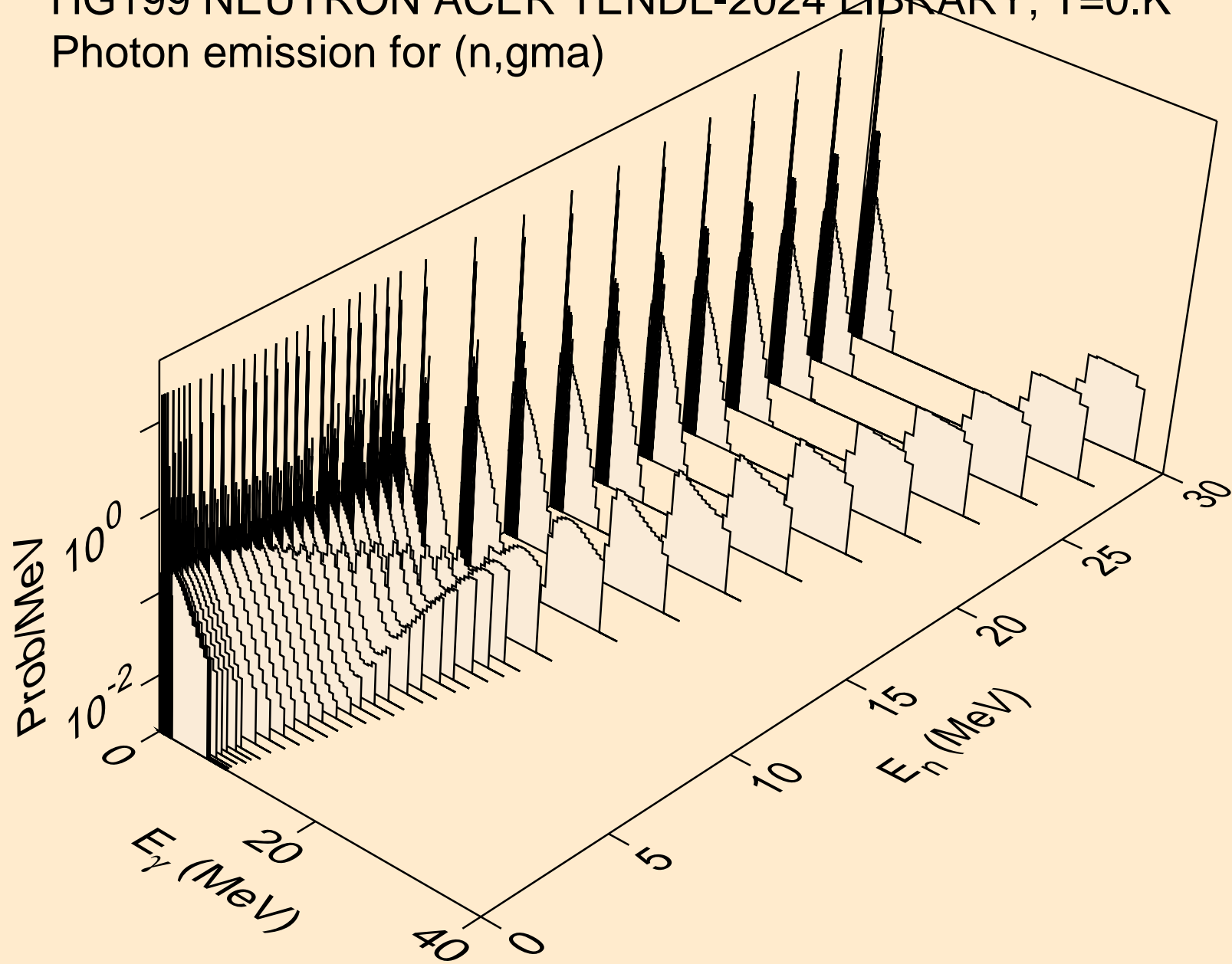
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Photon emission for (n,n2p)



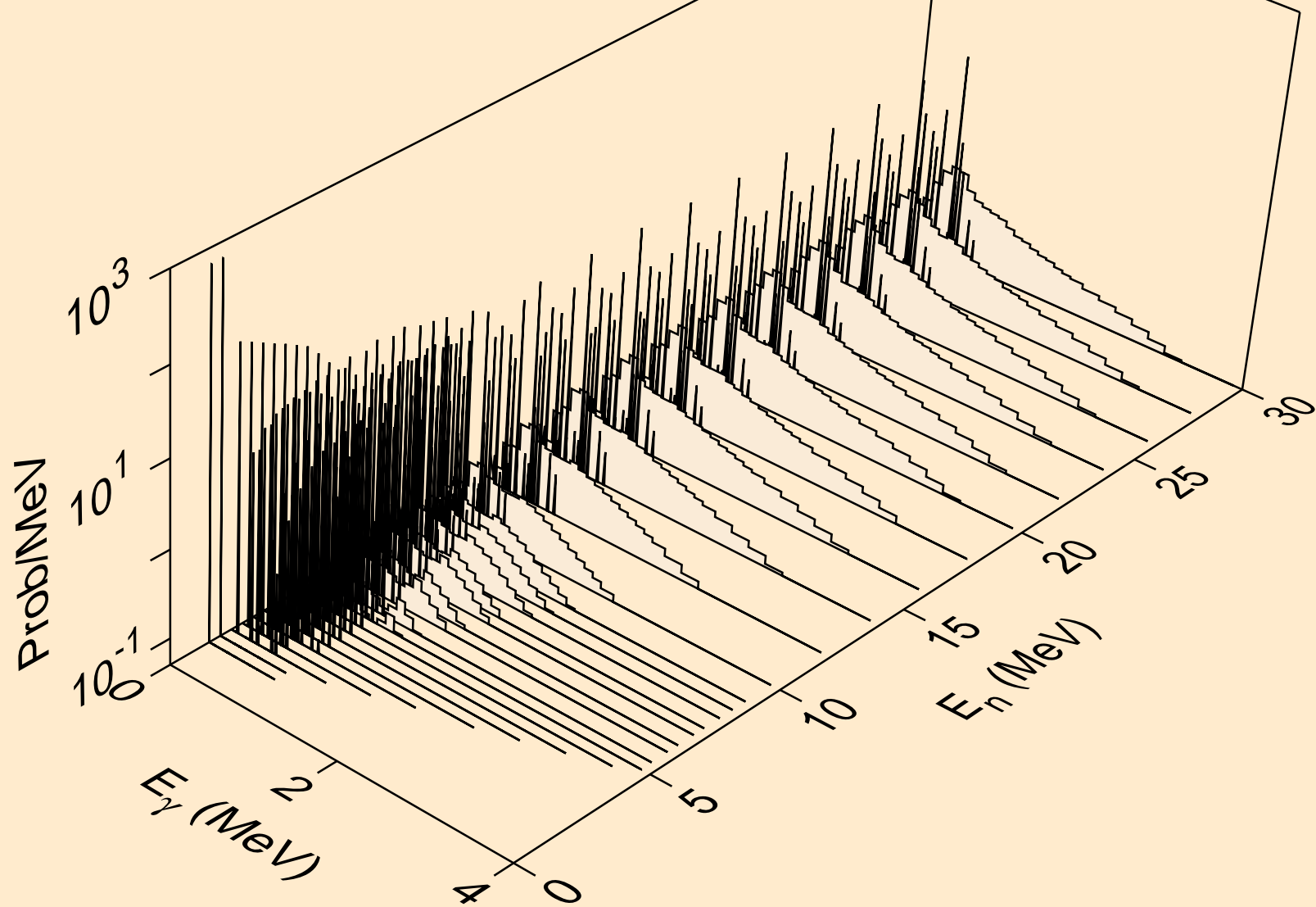
HG199 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,n\*c)



HG199 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,gma)

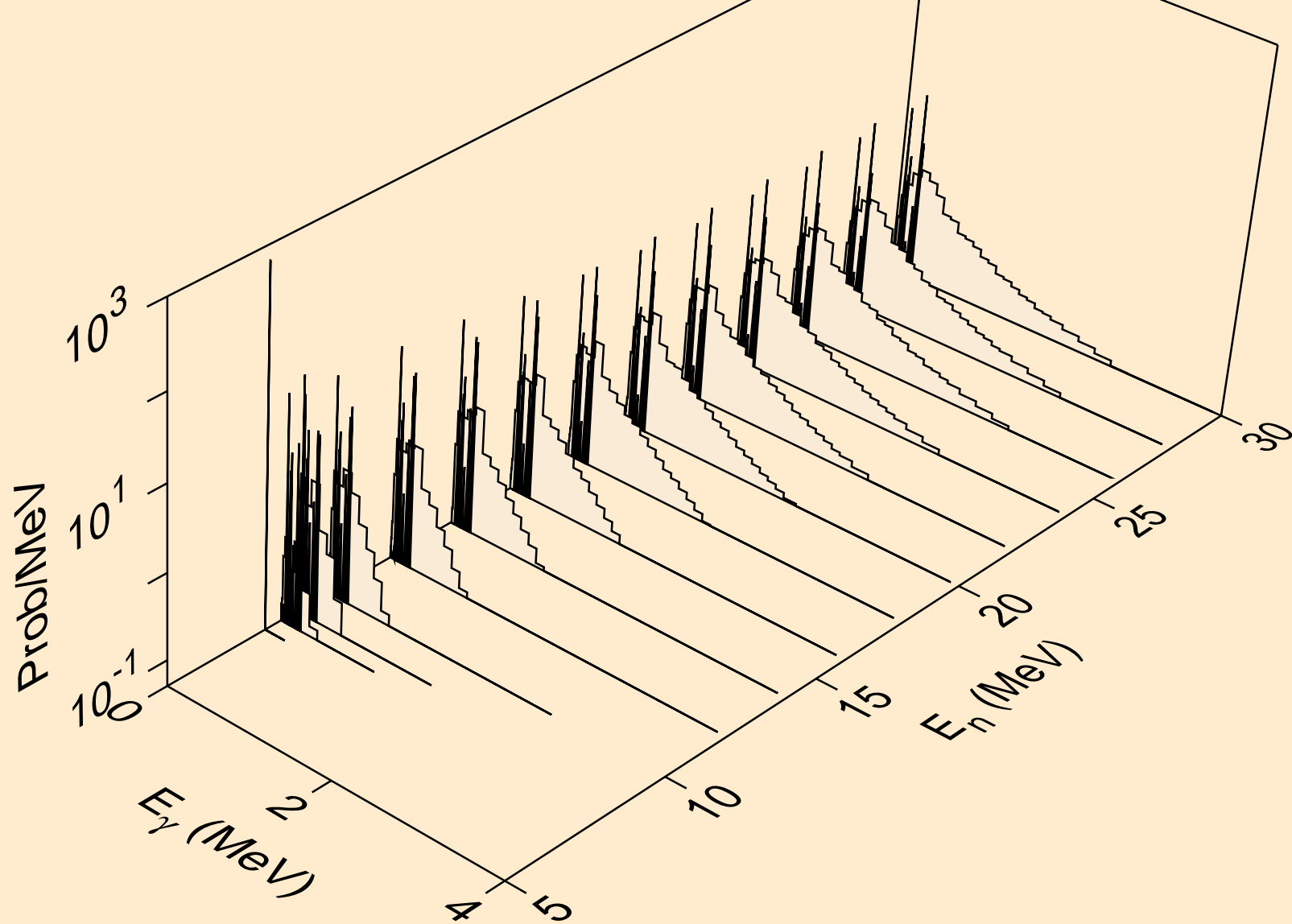


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Photon emission for (n,p)

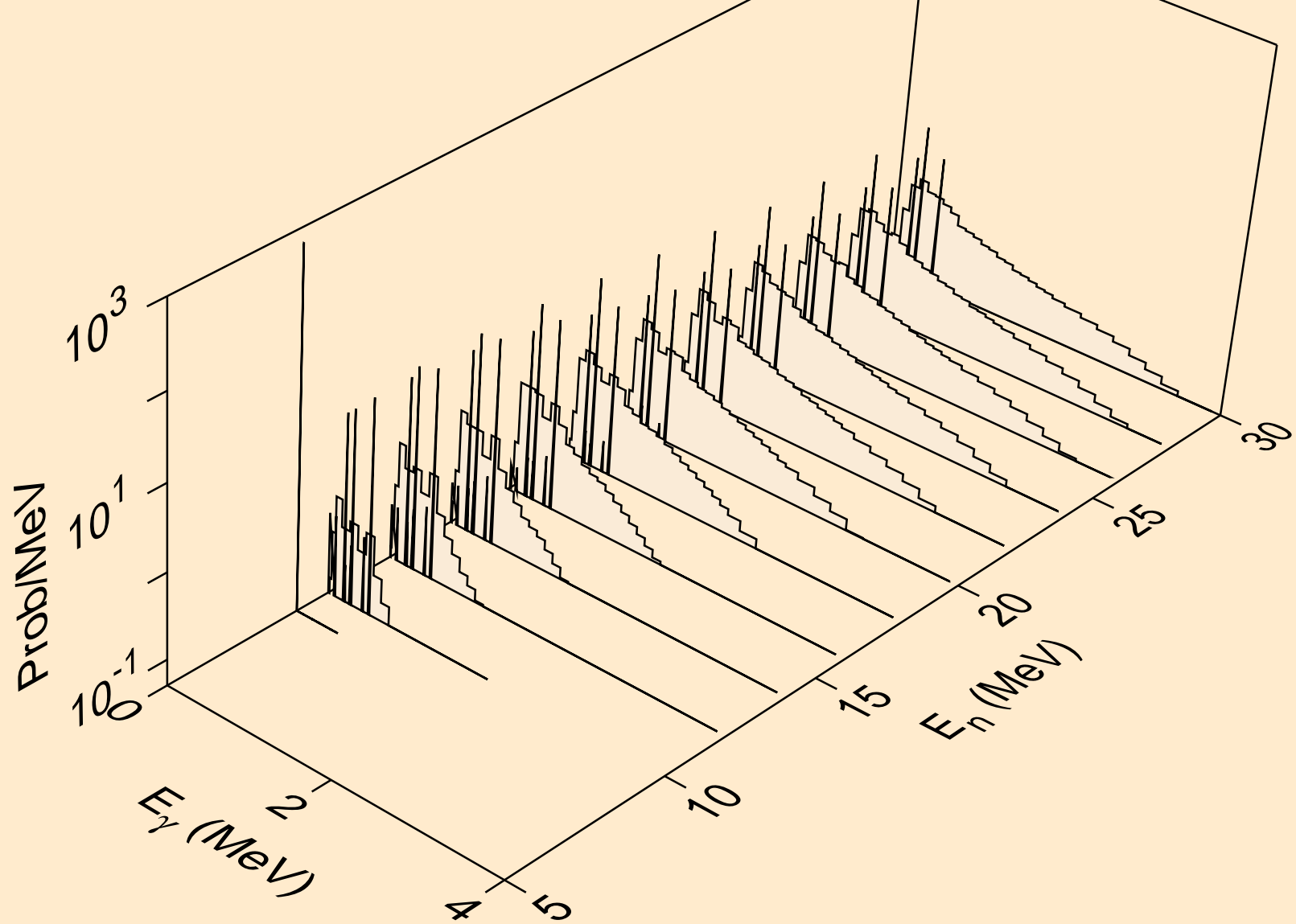




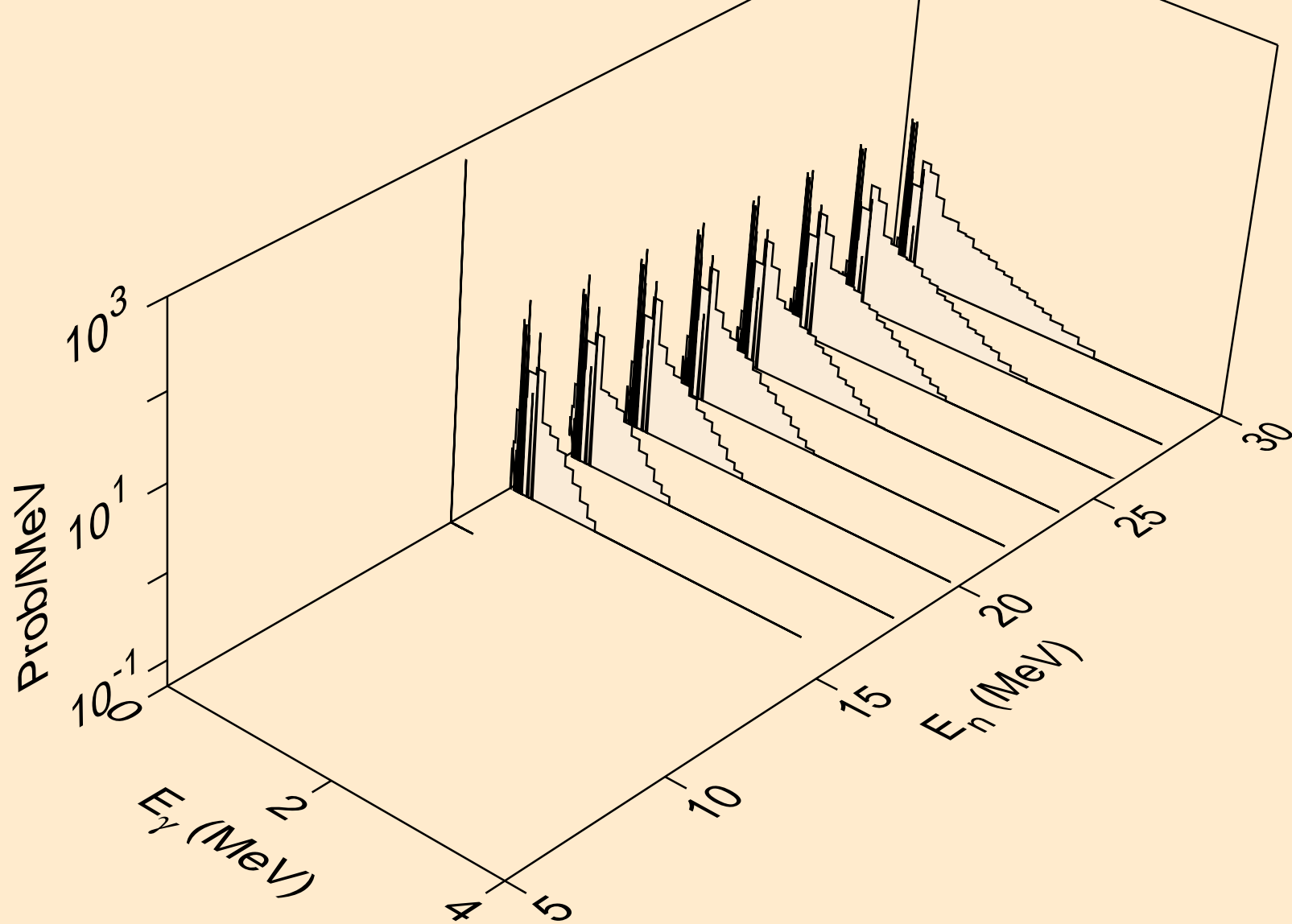
HG199 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,d)



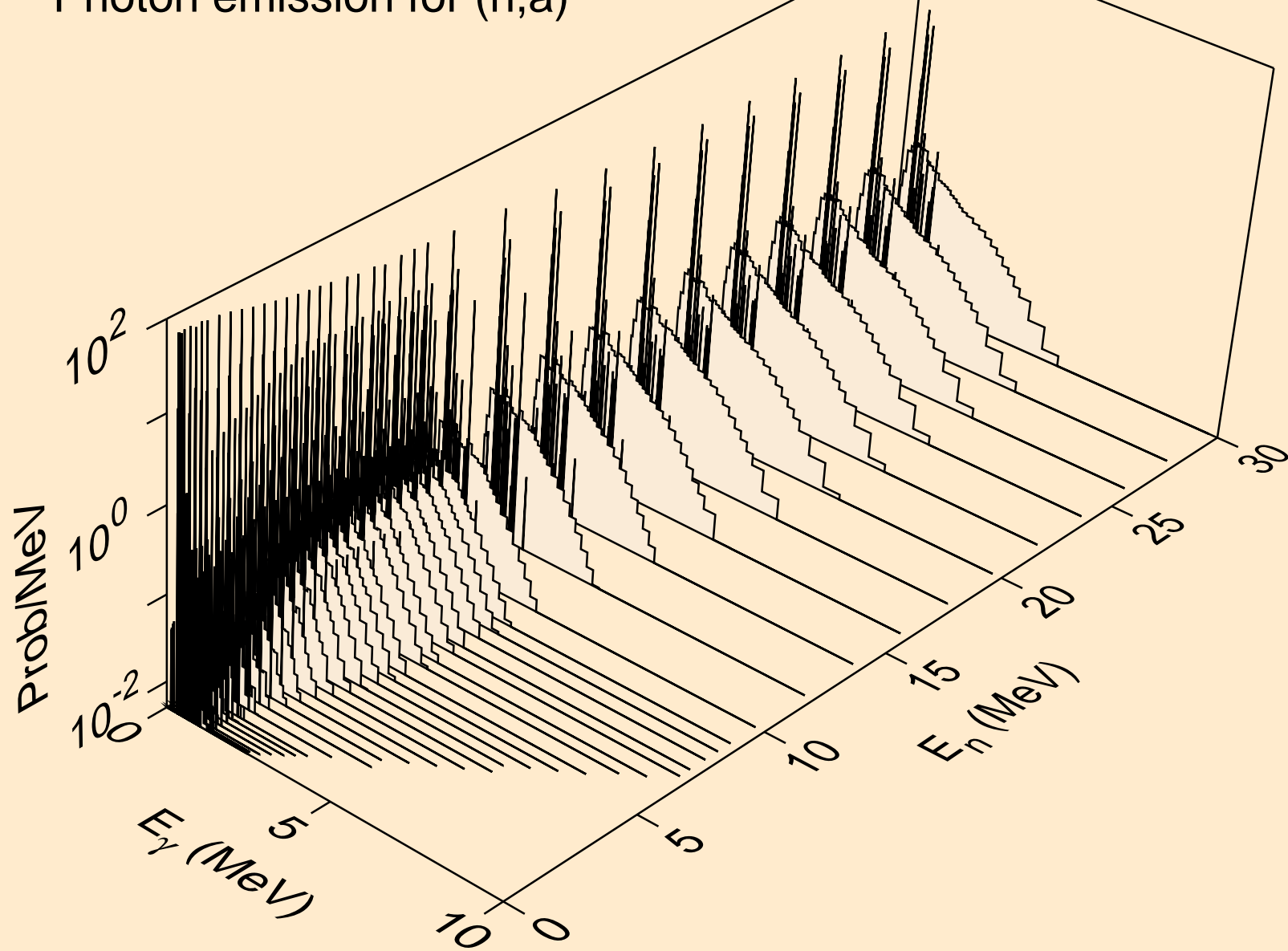
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Photon emission for (n,t)



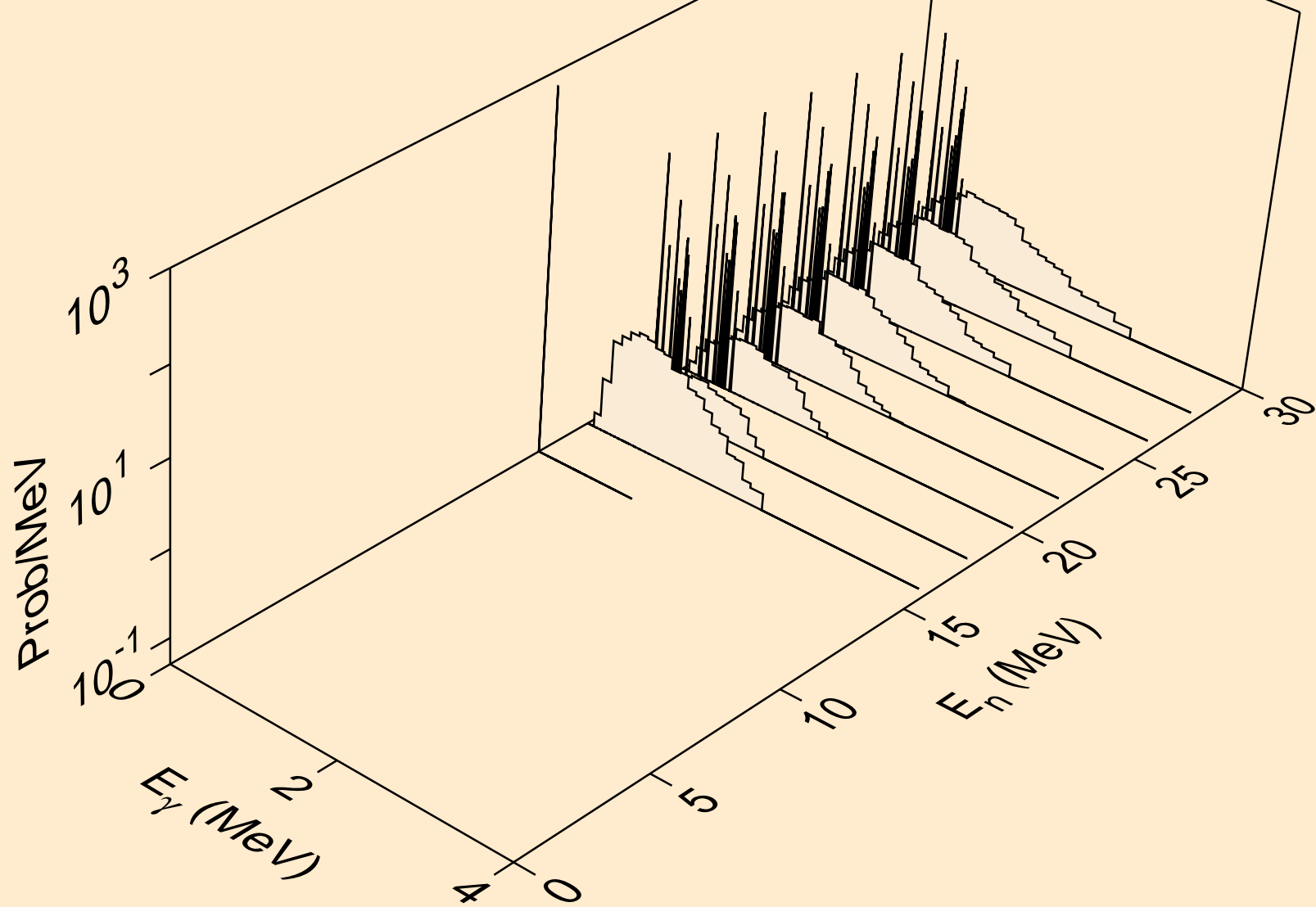
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Photon emission for (n,he3)



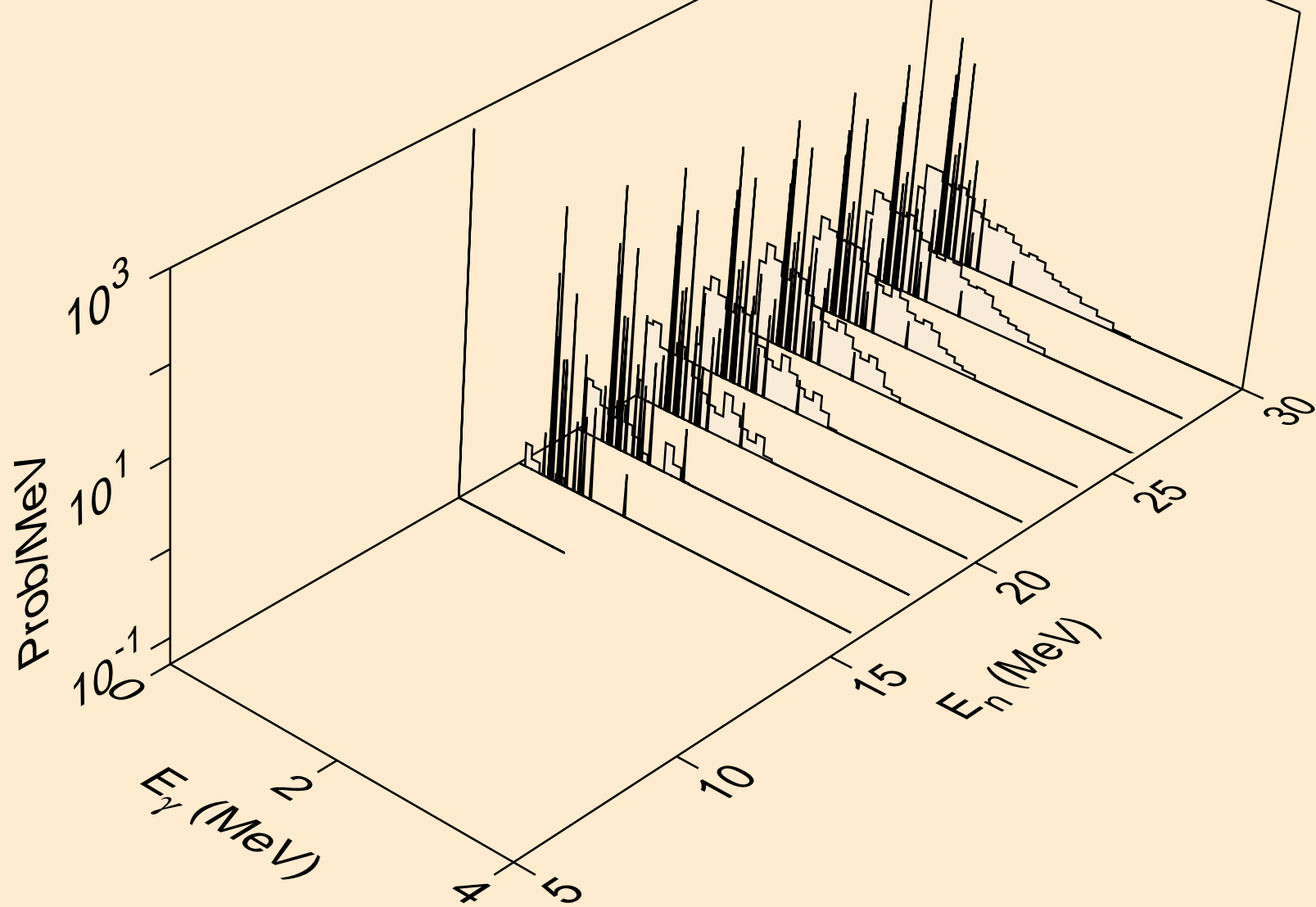
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Photon emission for (n,a)



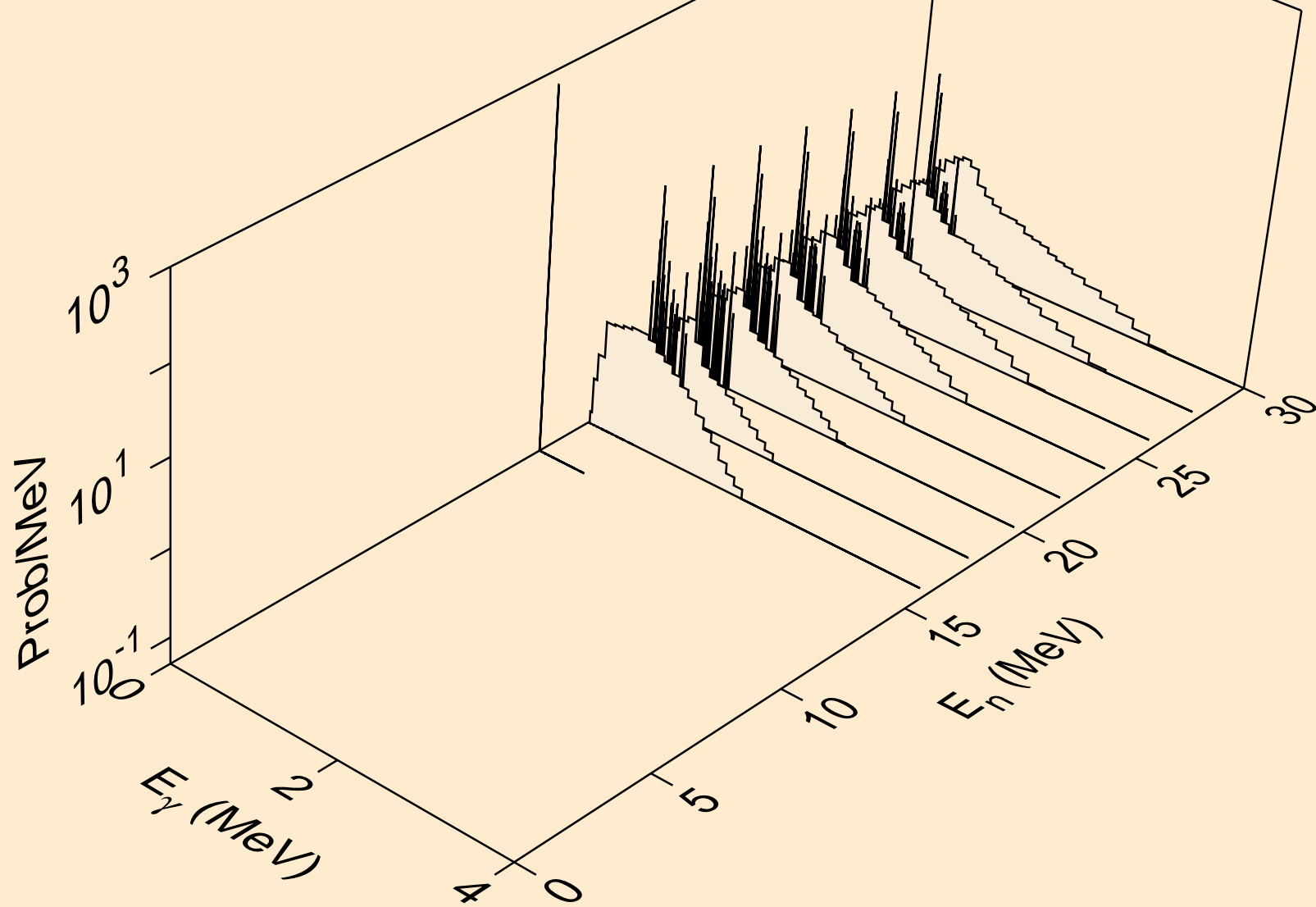
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Photon emission for (n,2a)



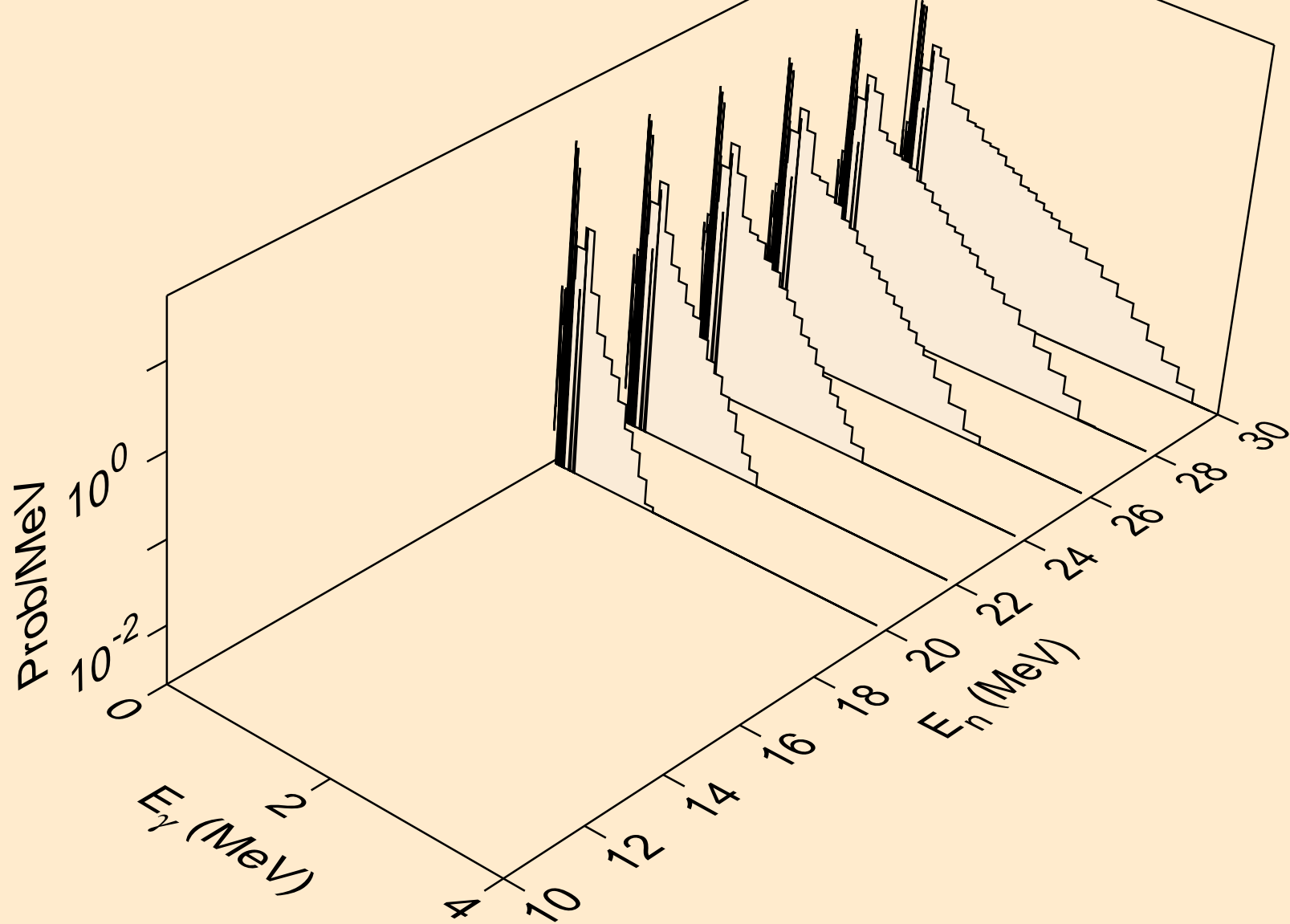
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Photon emission for (n,2p)



HG199 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,p)

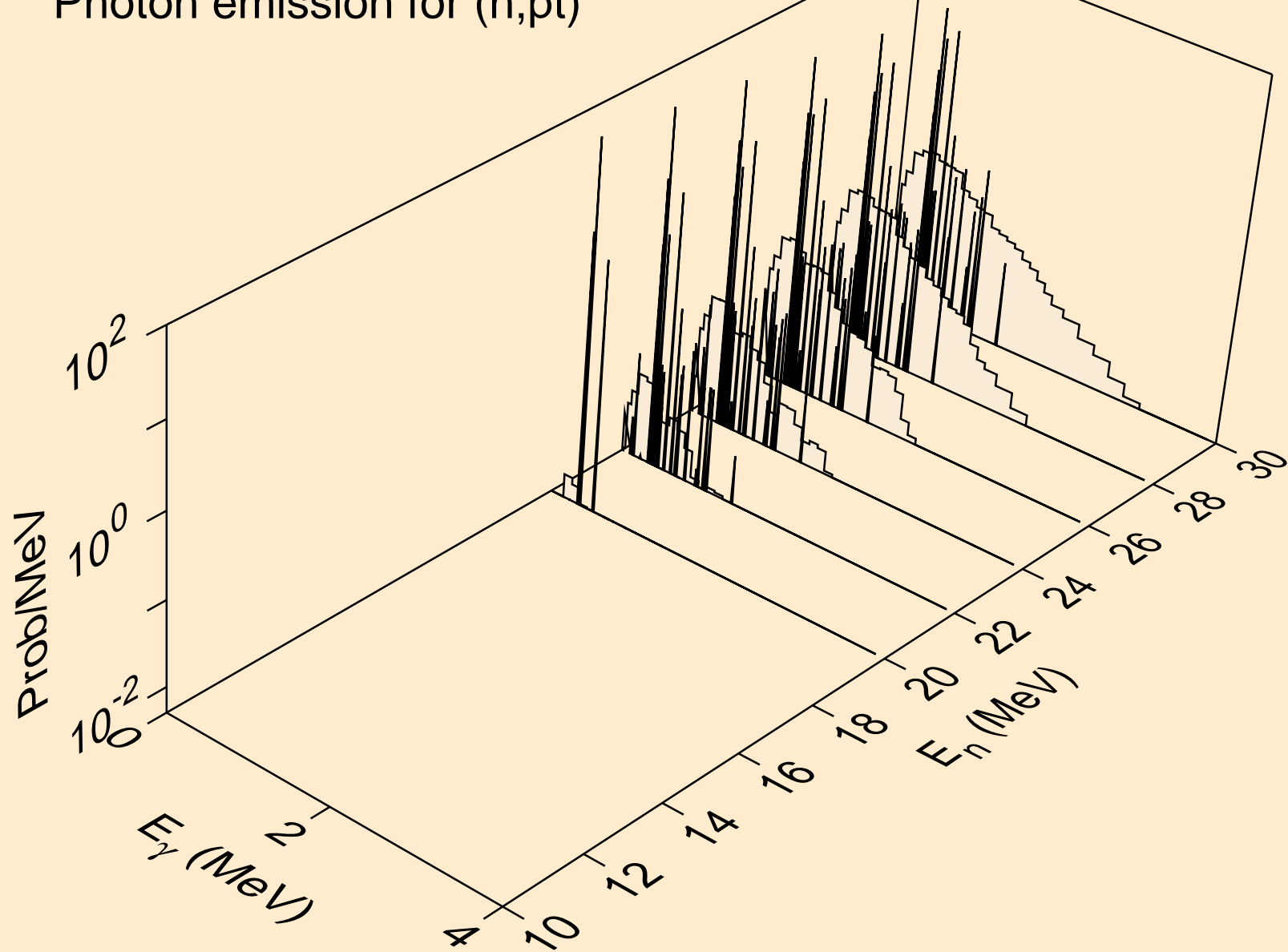


HG199 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,pd)

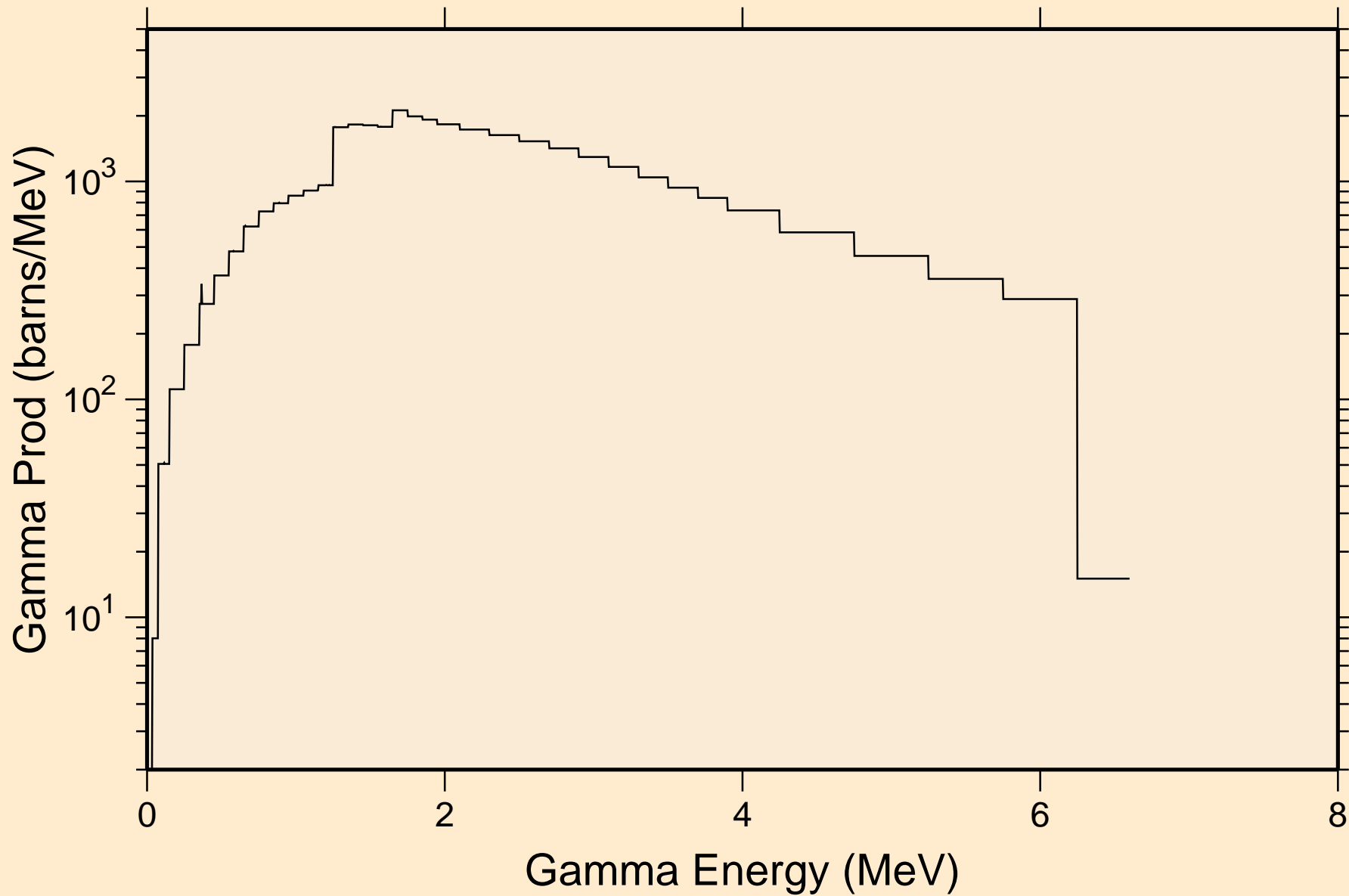




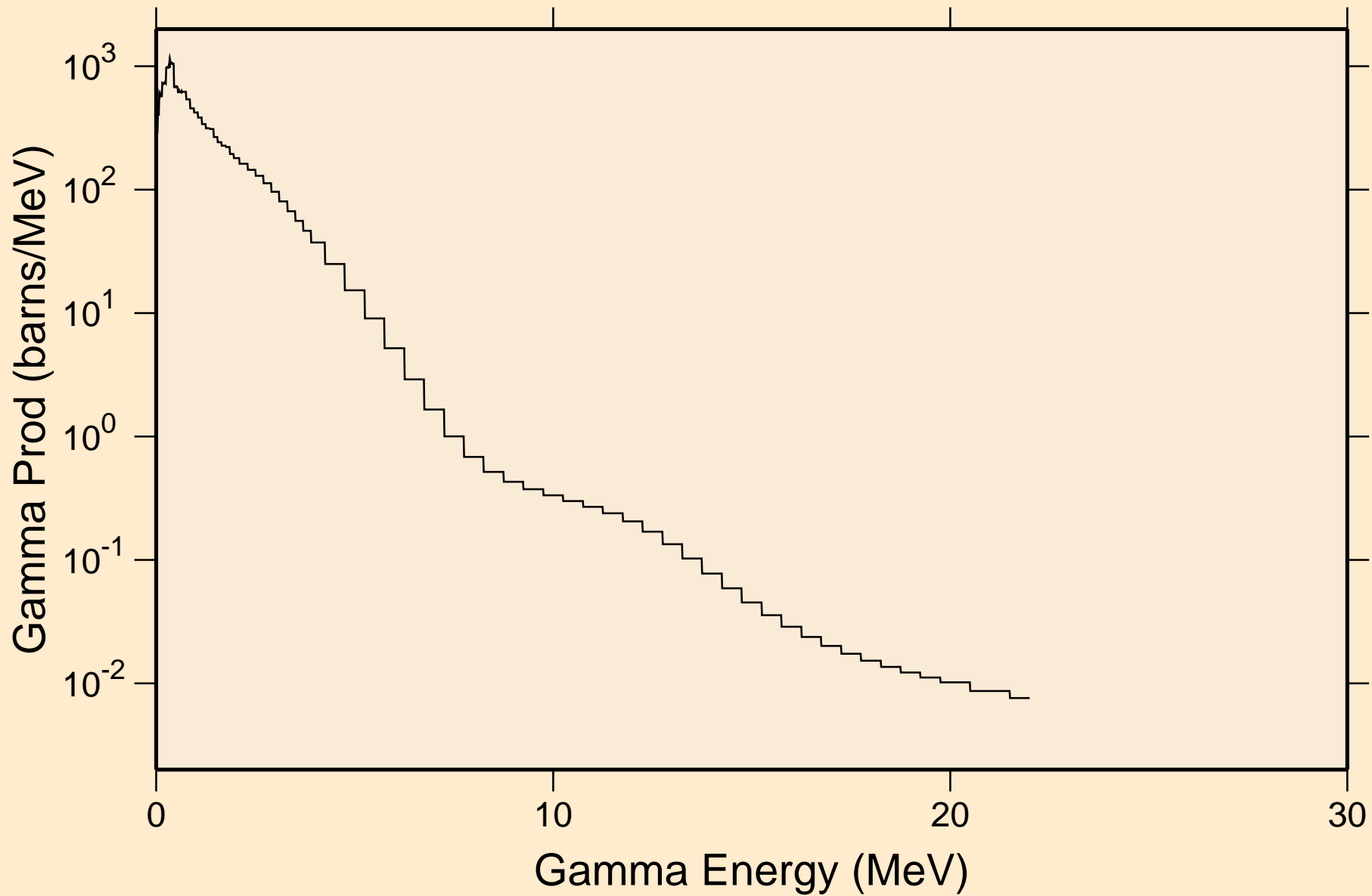
HG199 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,pt)



HG199 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
thermal capture photon spectrum

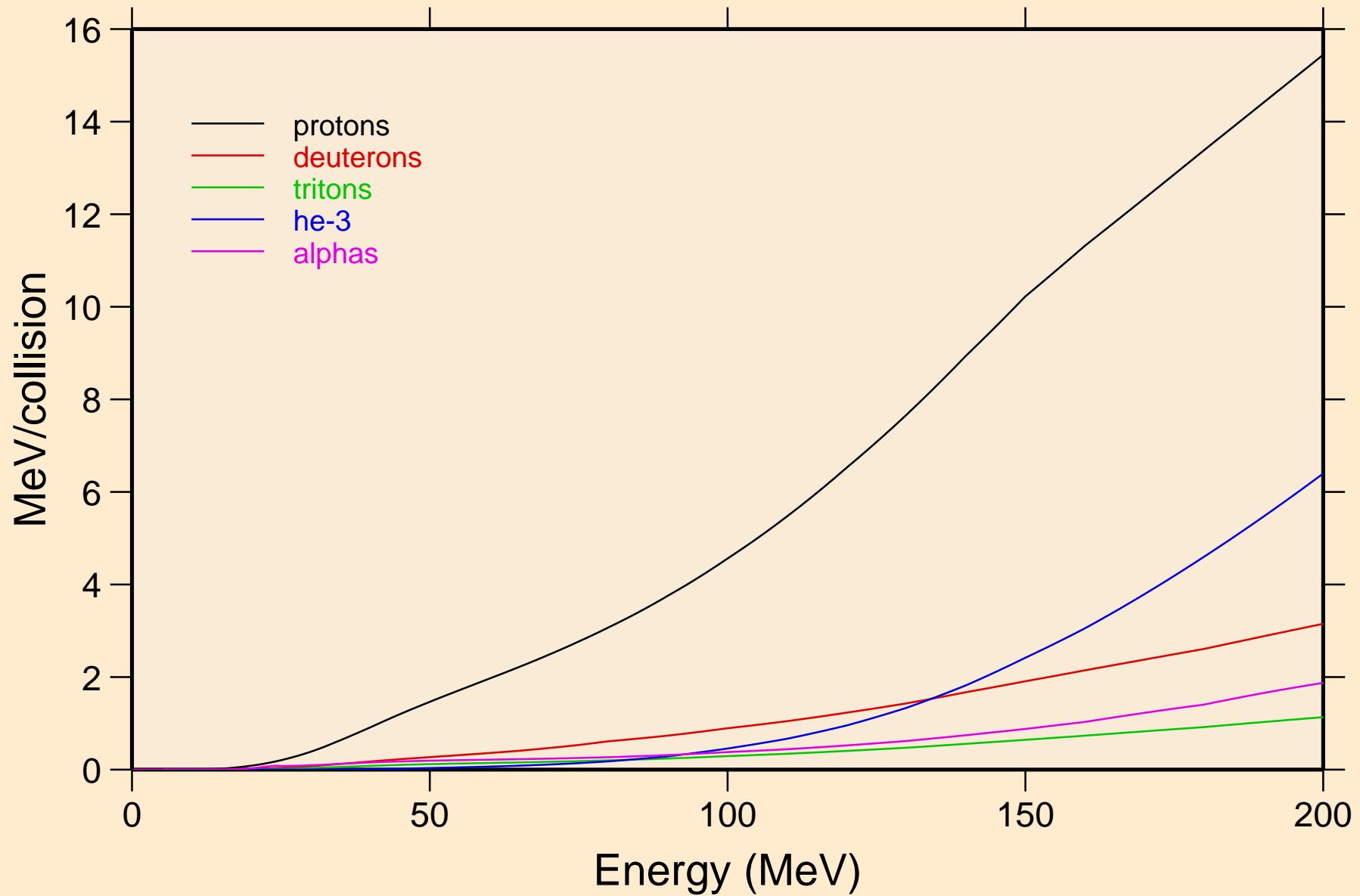


HG199 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
14 MeV photon spectrum

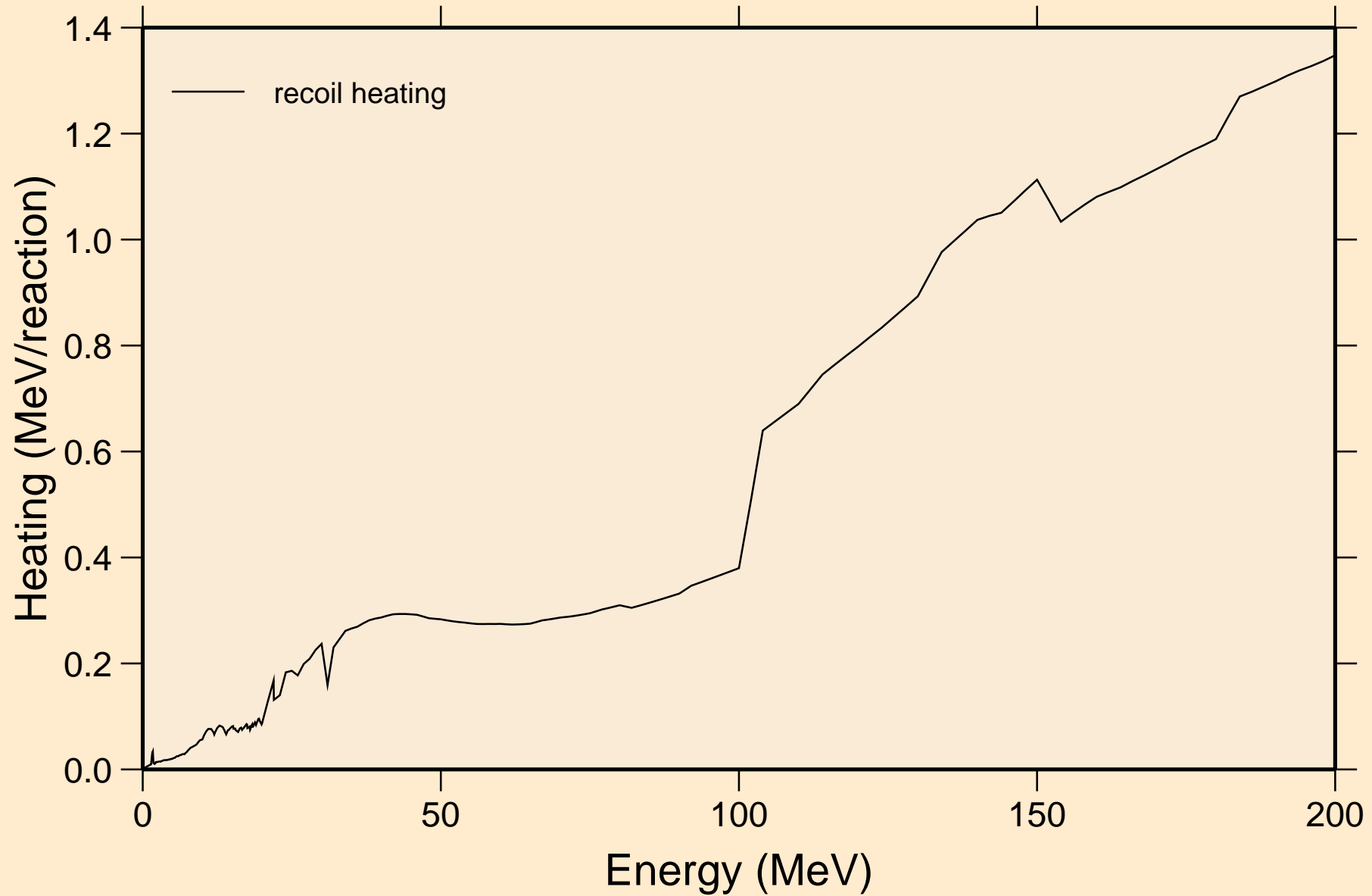


# HG199 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K

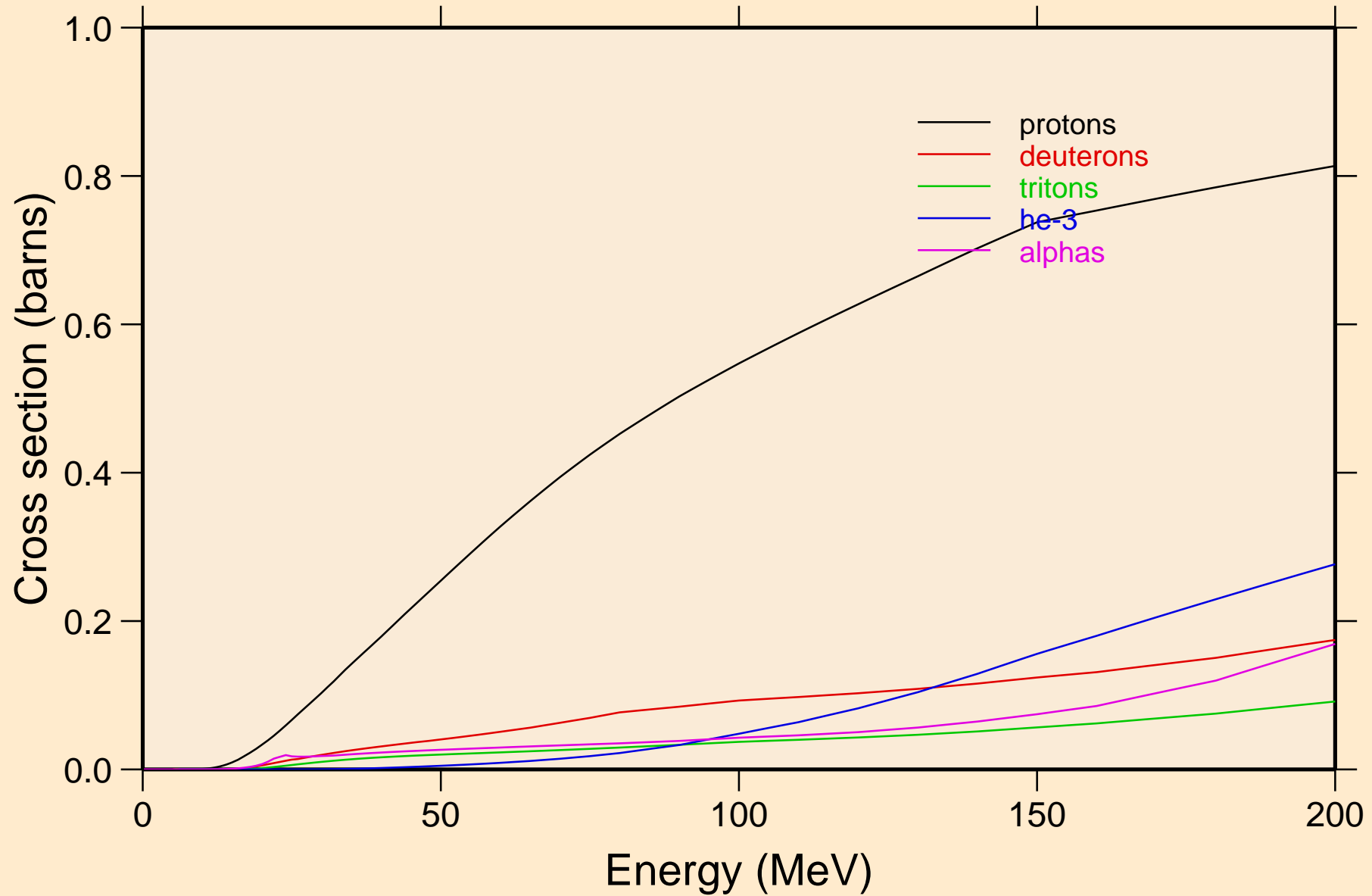
## Particle heating contributions



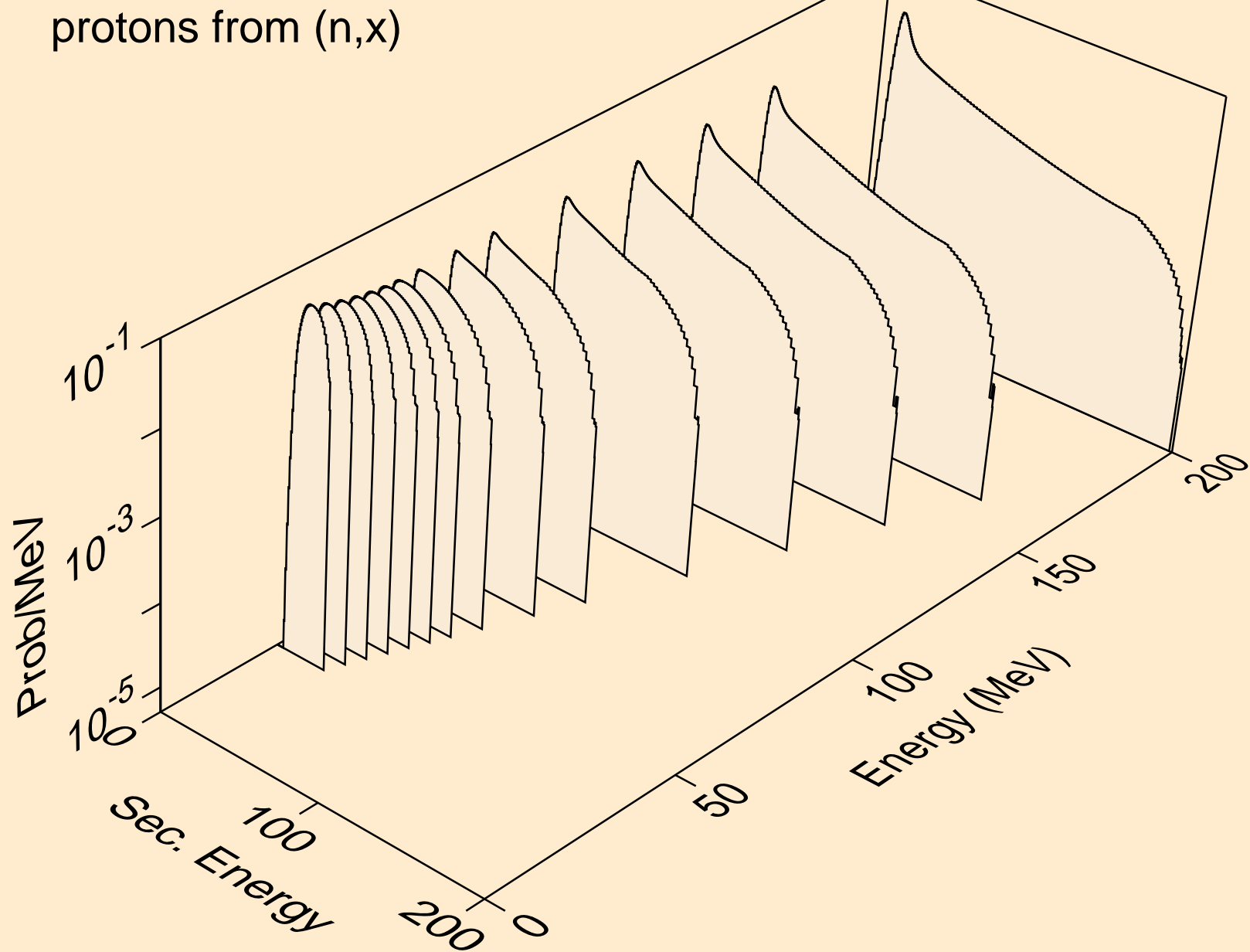
HG199 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Recoil Heating



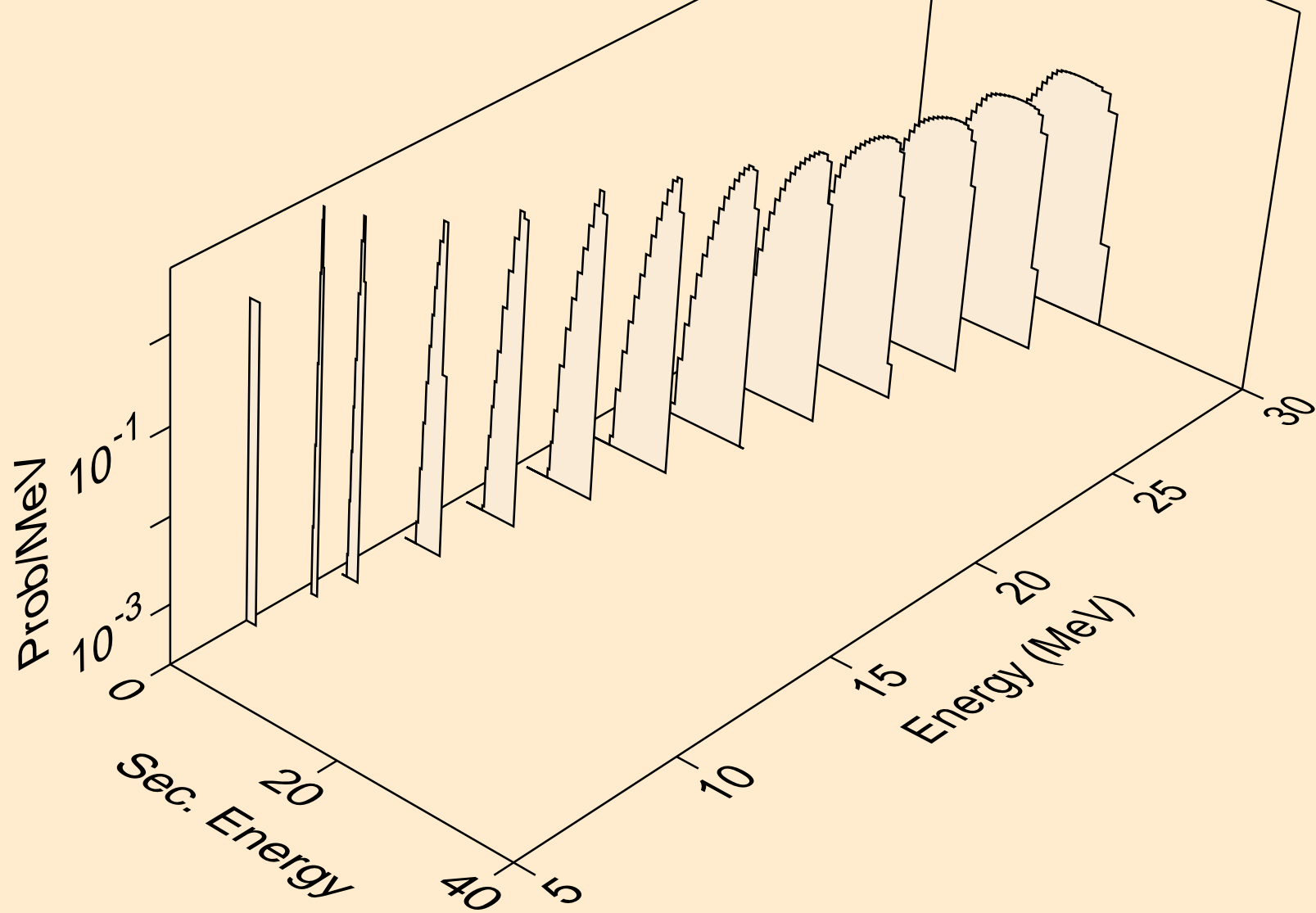
HG199 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Particle production cross sections



HG199 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
protons from (n,x)

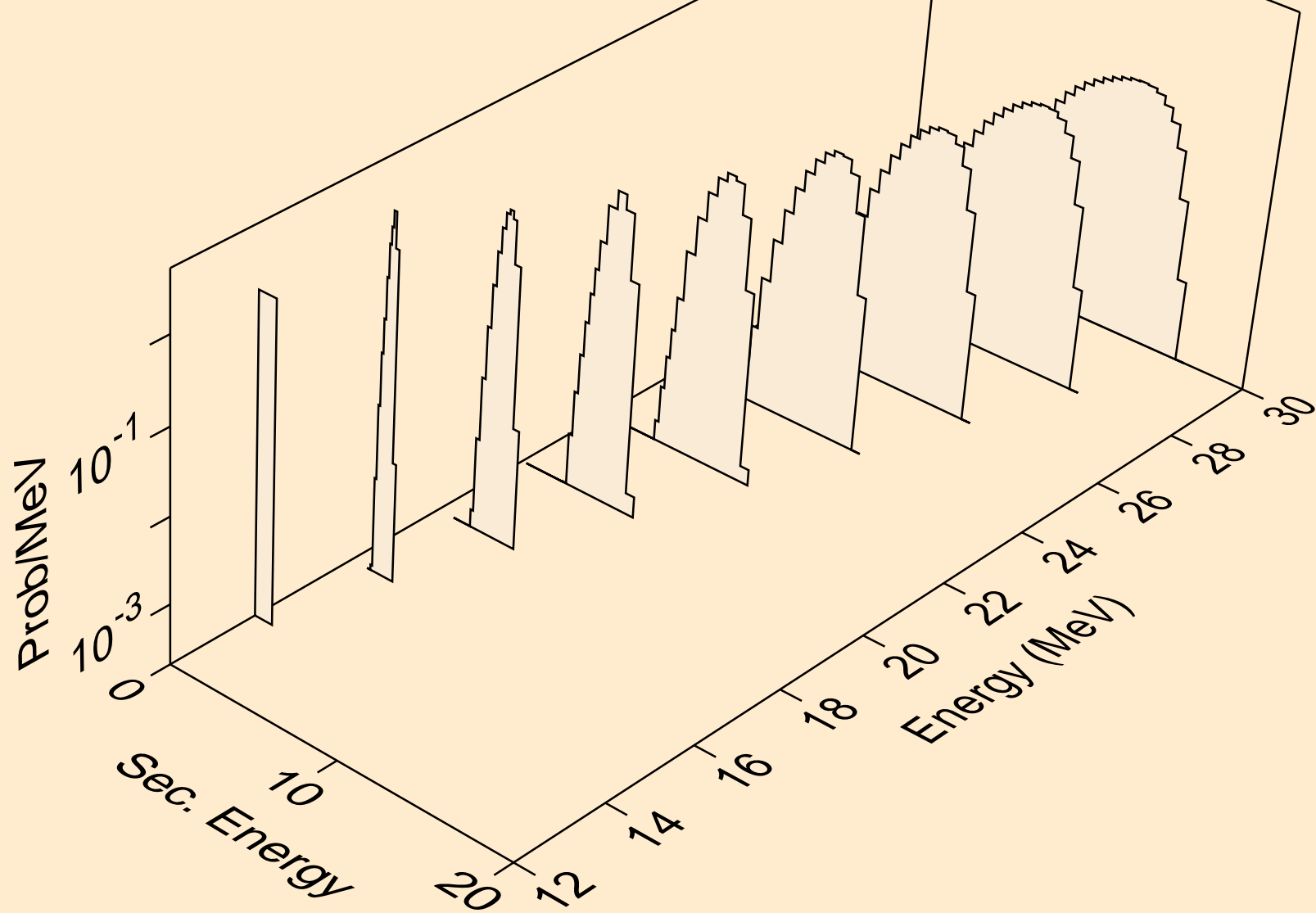


HG199 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
protons from (n,n\*)p

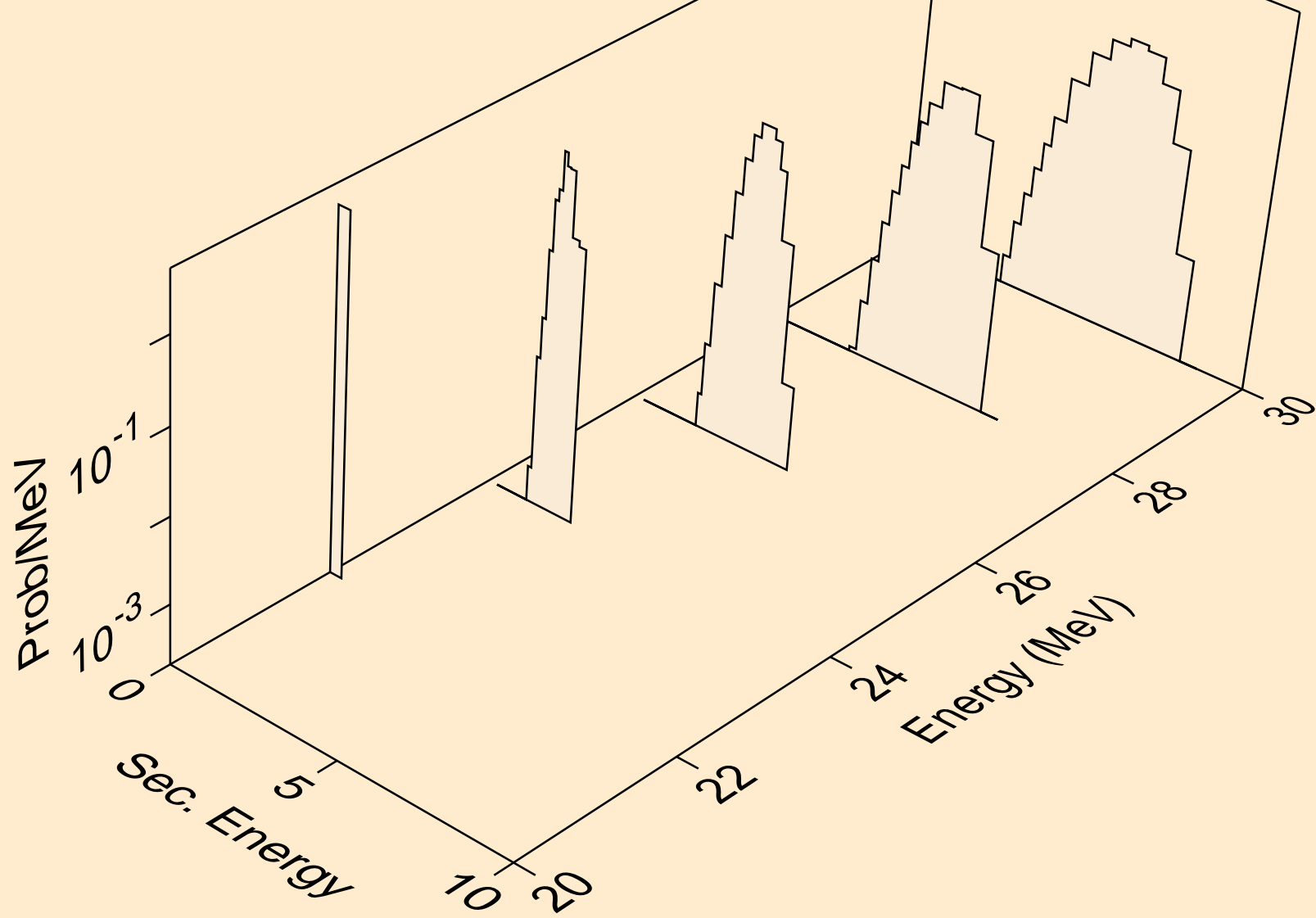




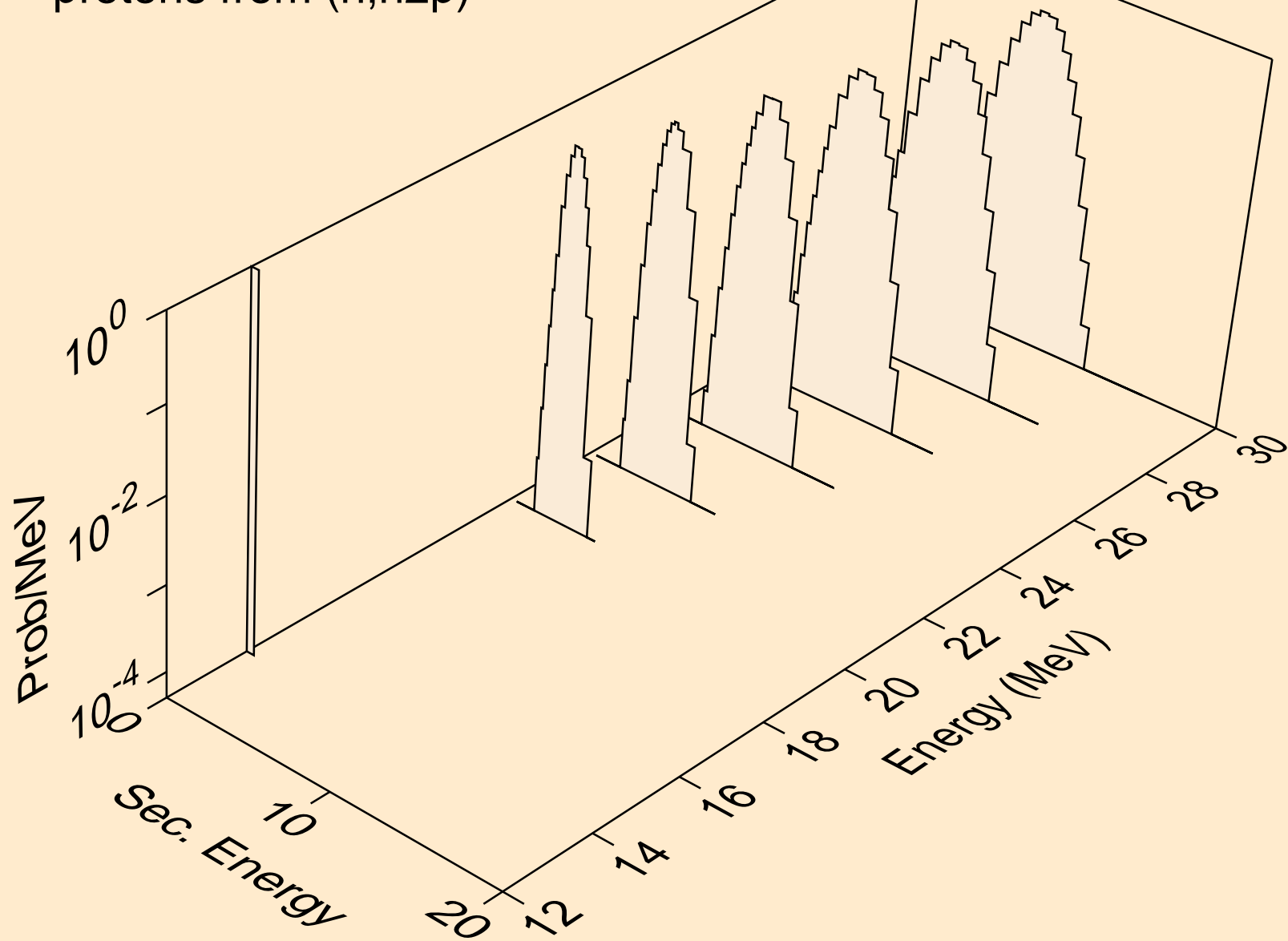
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protons from (n,2np)



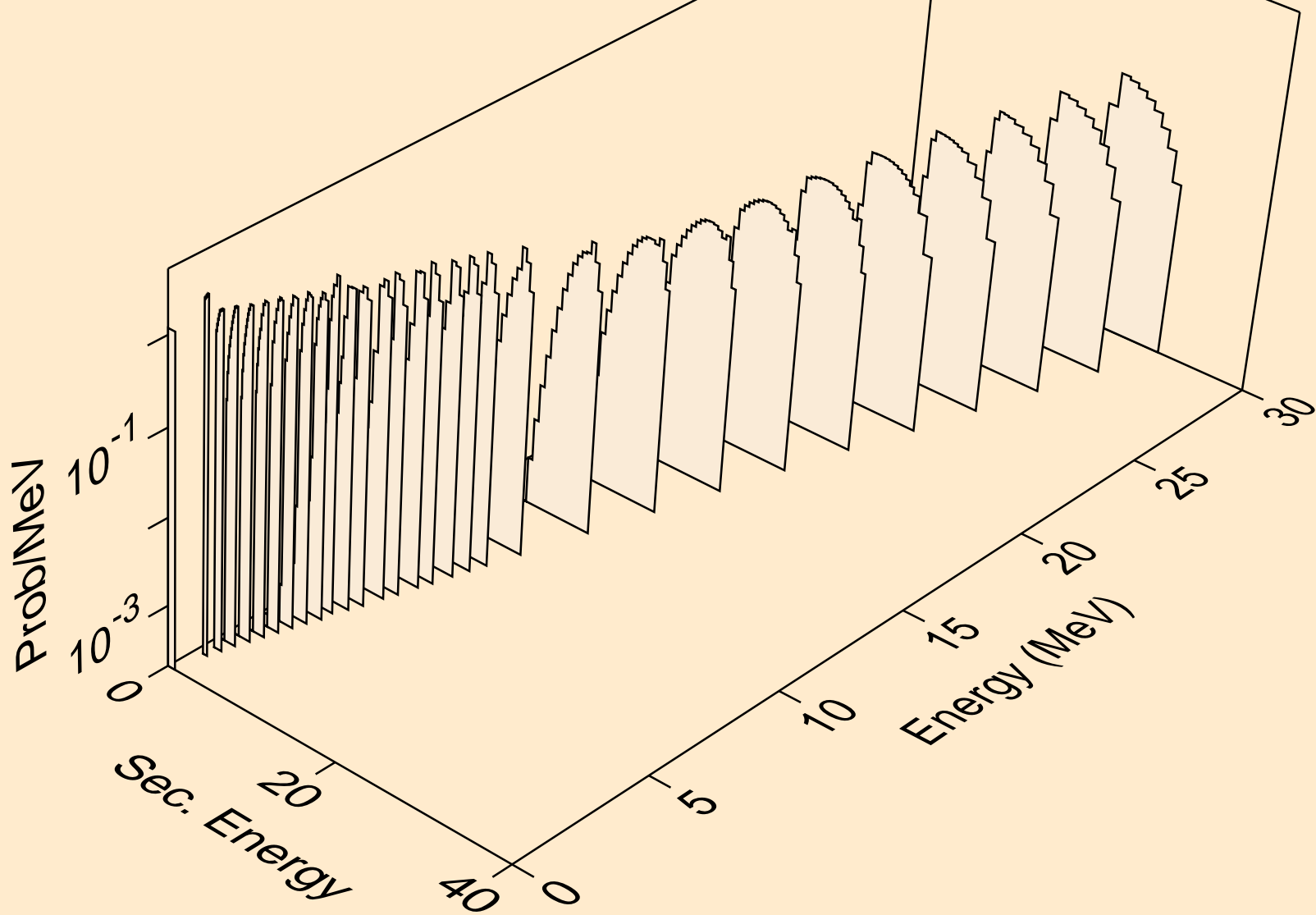
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protons from (n,3np)



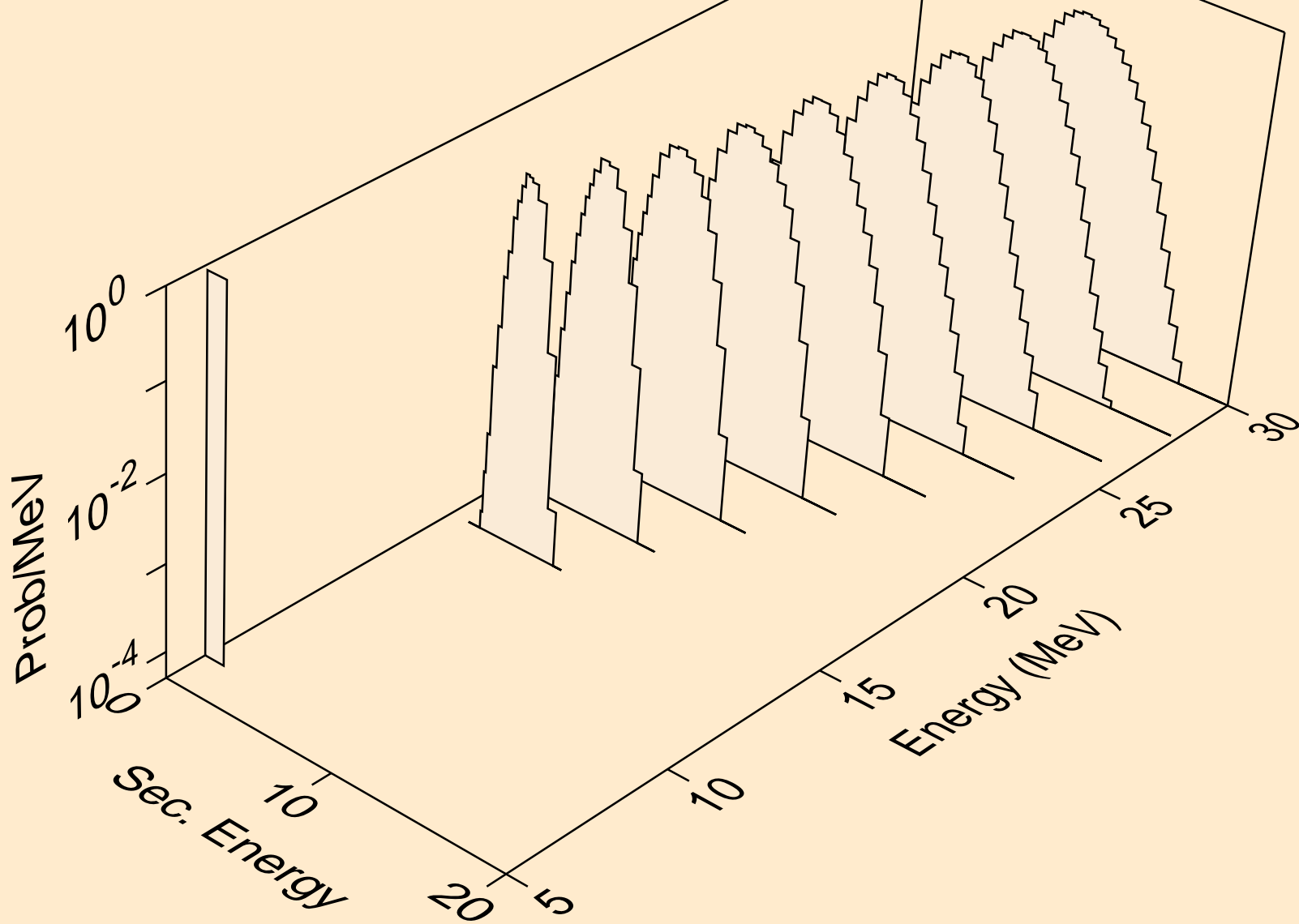
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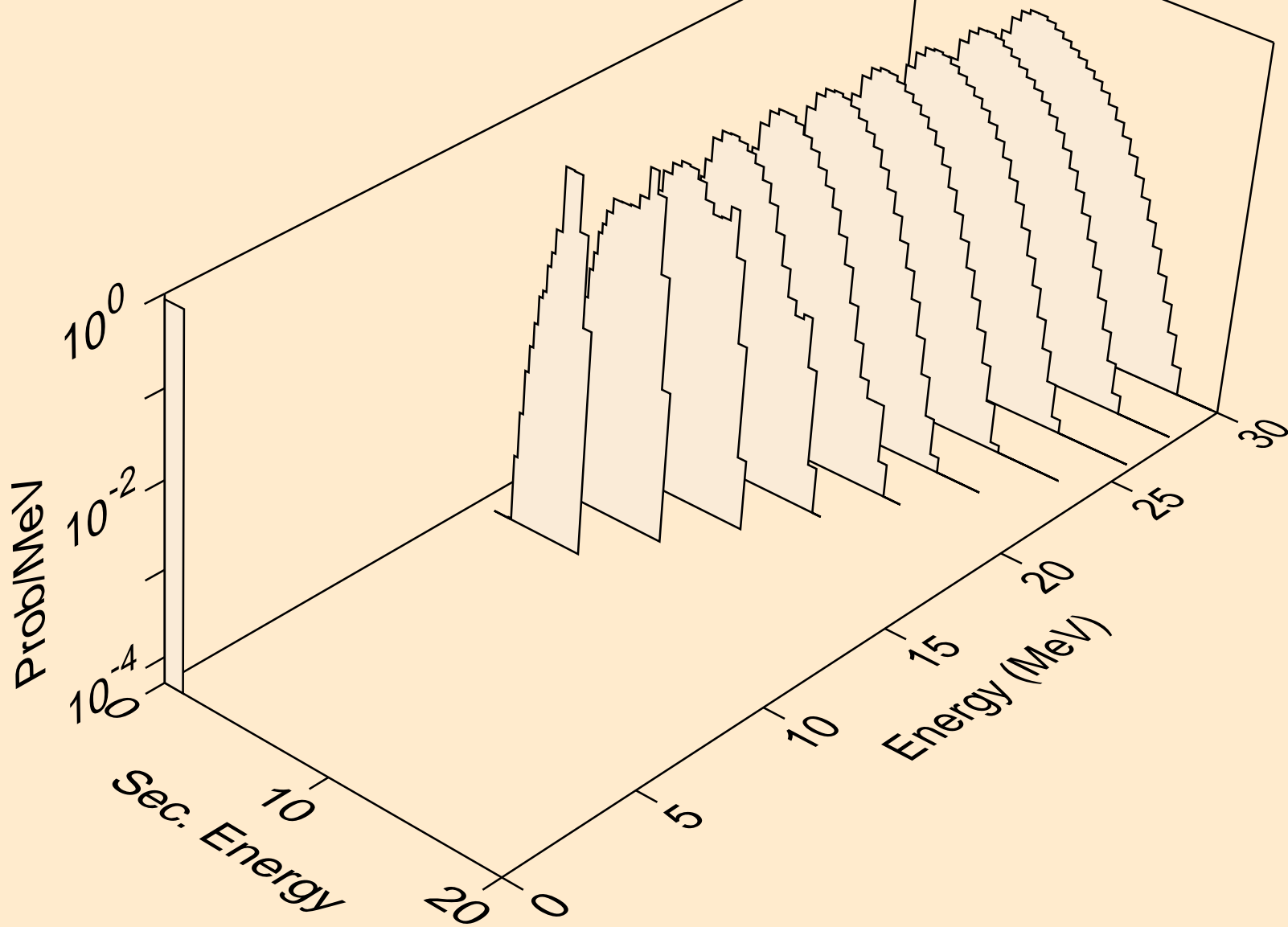
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protons from (n,p)



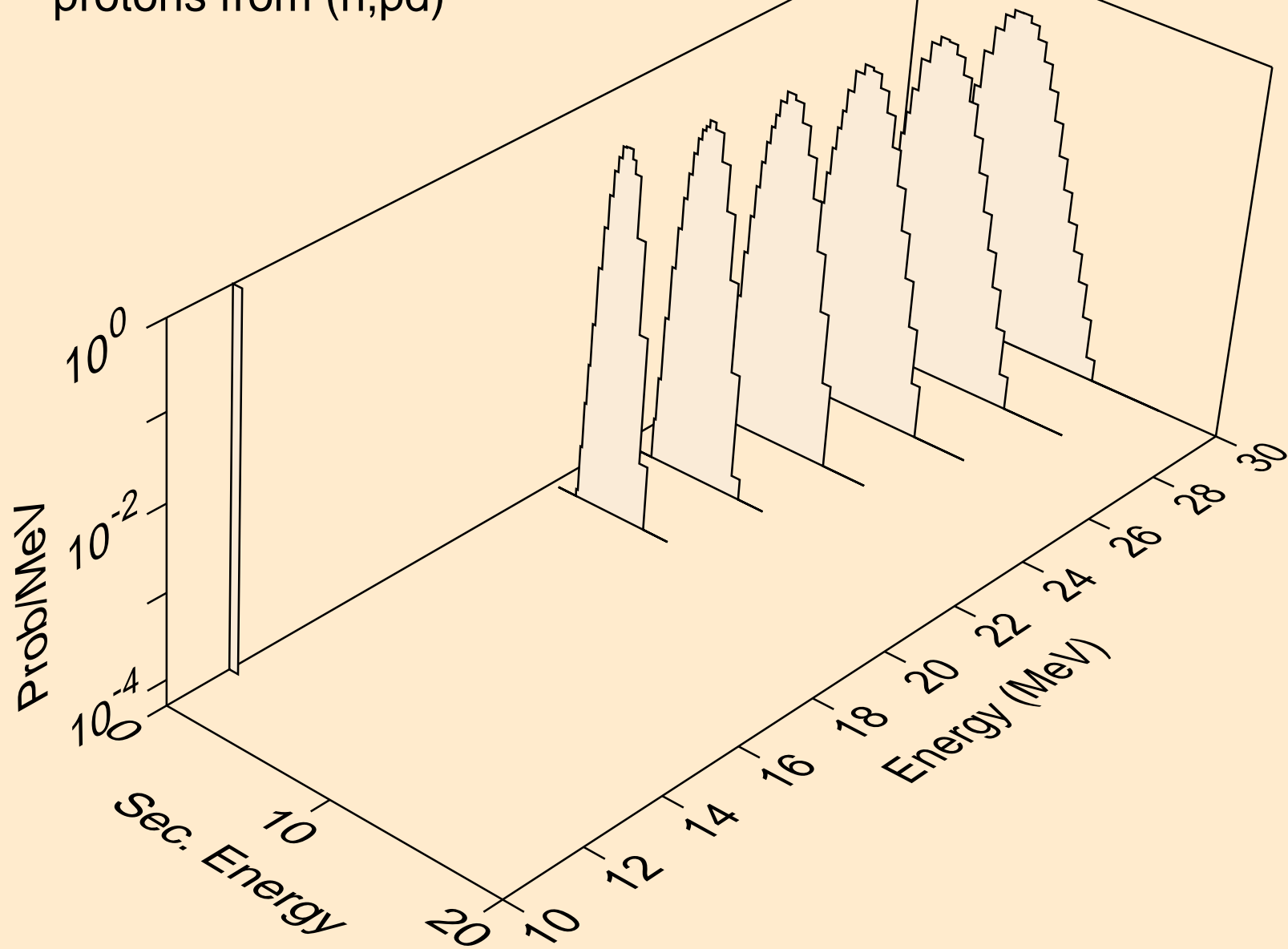
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protons from (n,2p)



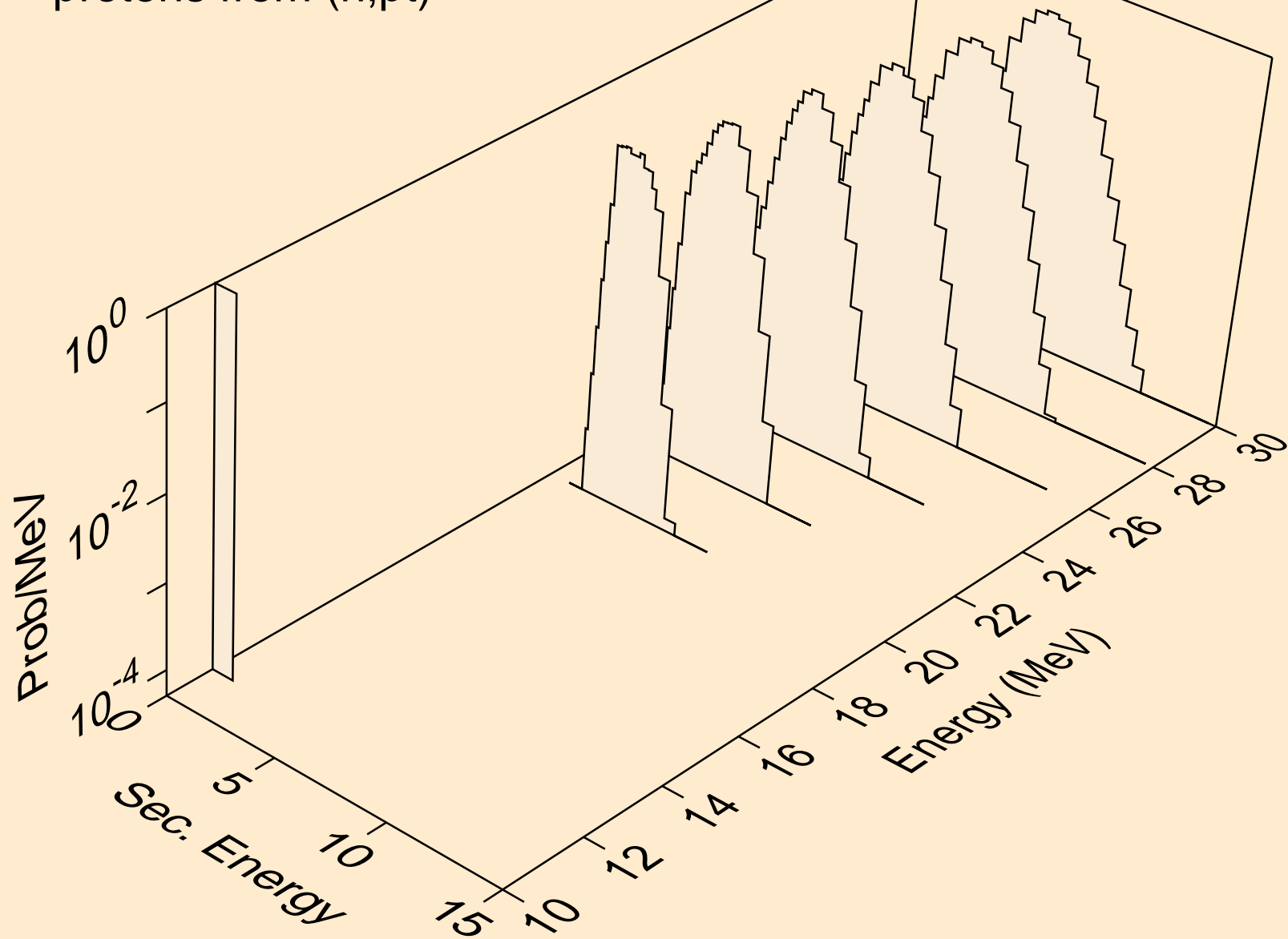
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protons from (n,p)



HG199 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
protons from (n,pd)

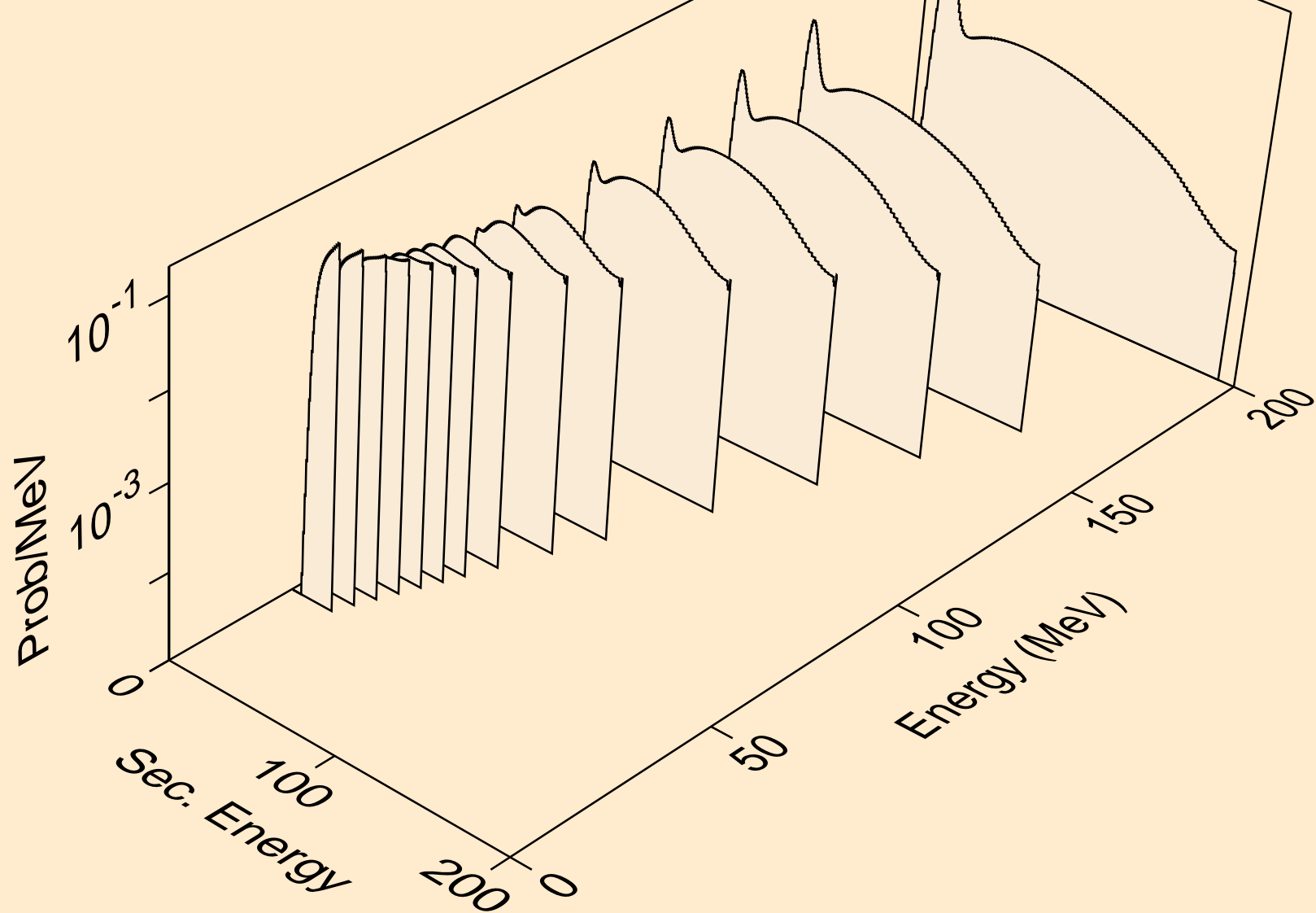


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protons from (n,pt)

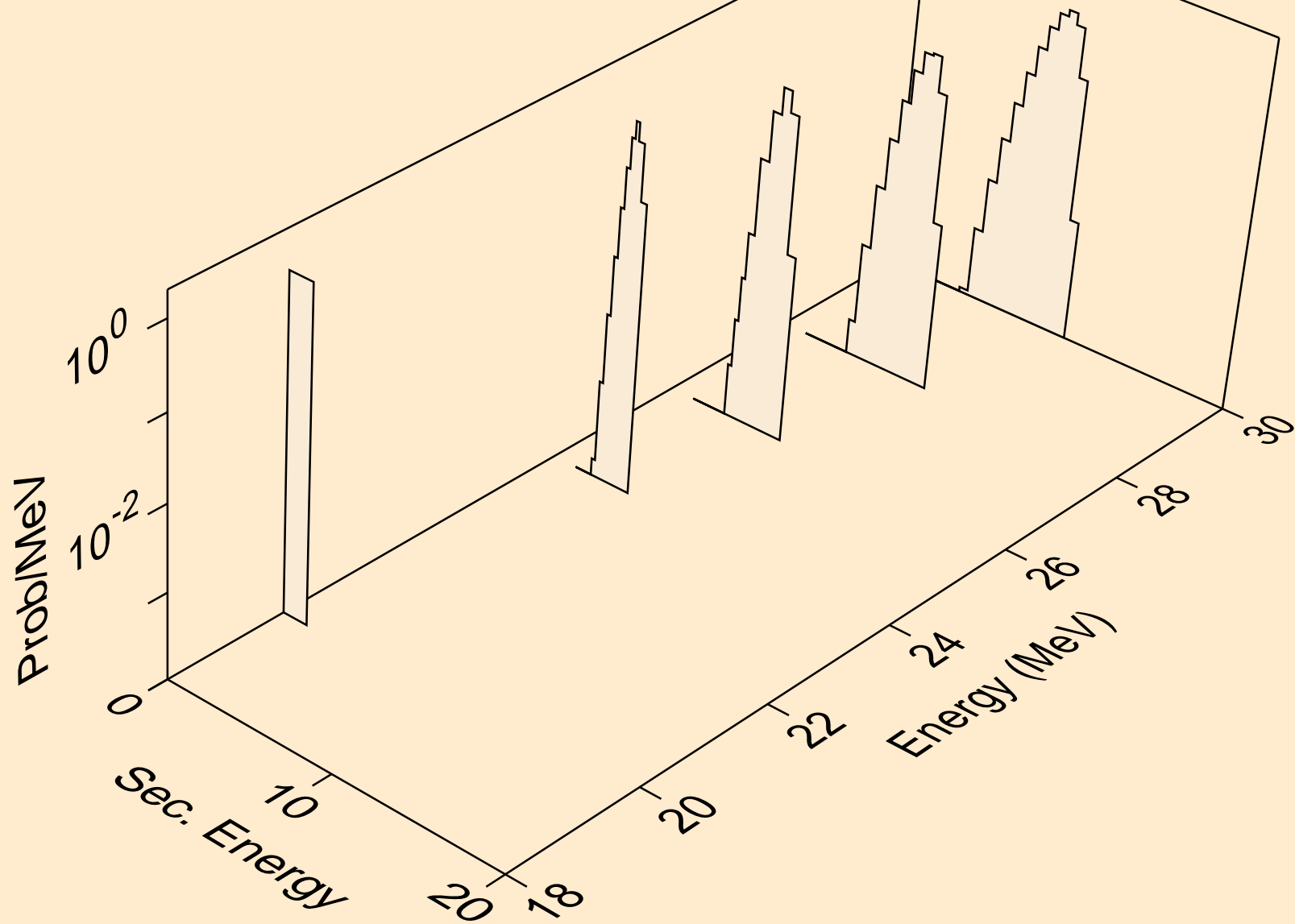




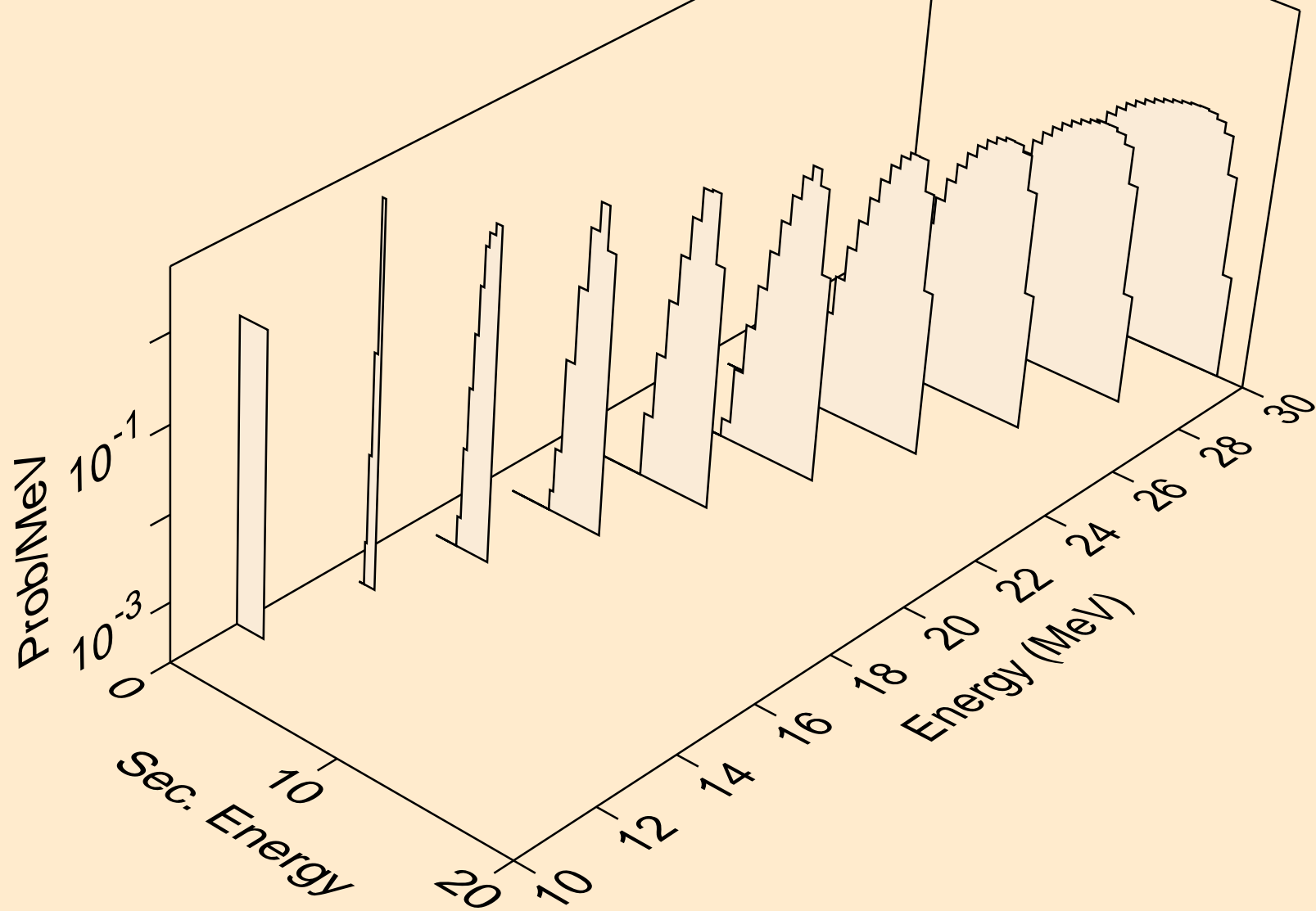
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deuterons from (n,x)



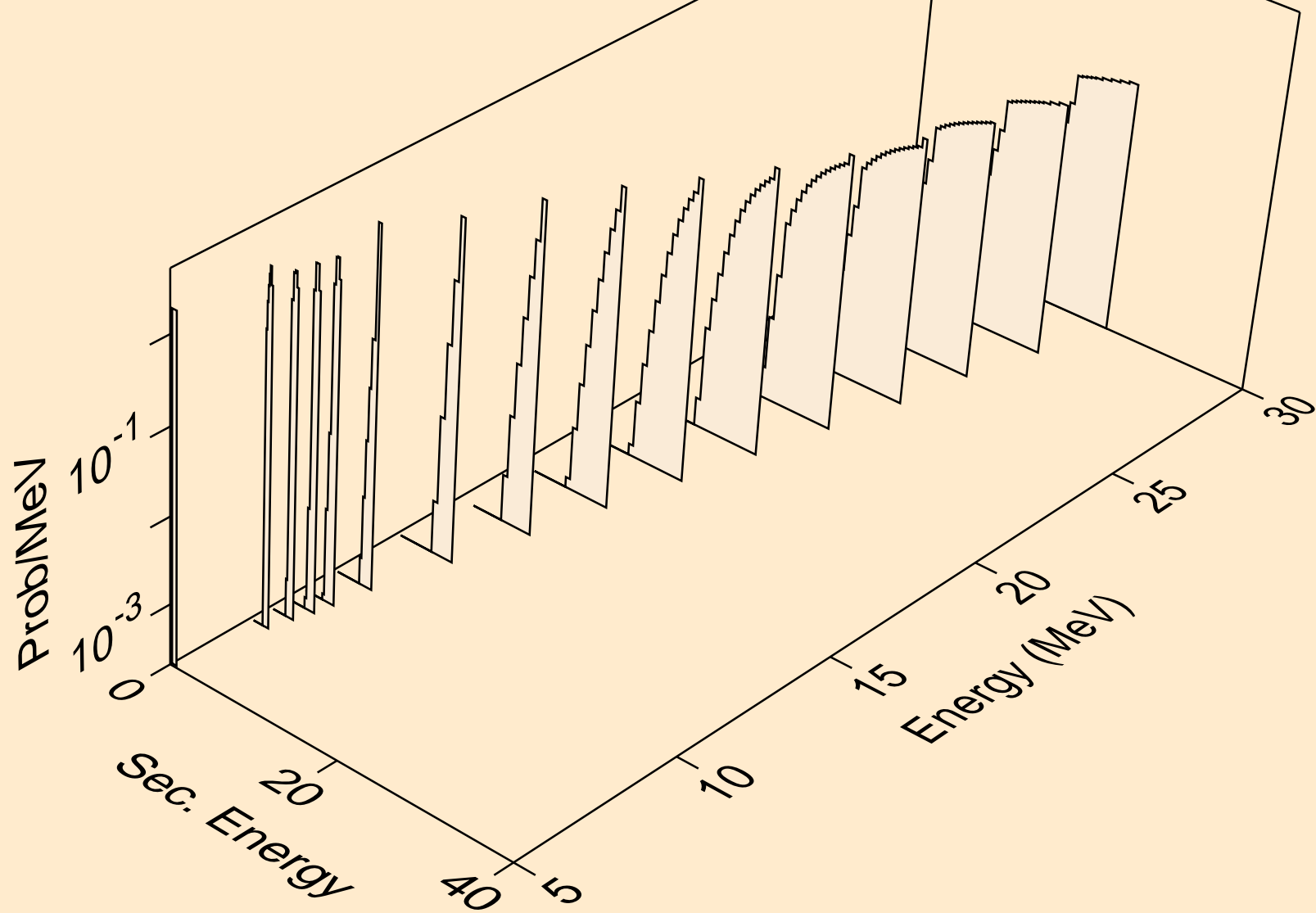
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deuterons from (n,2nd)



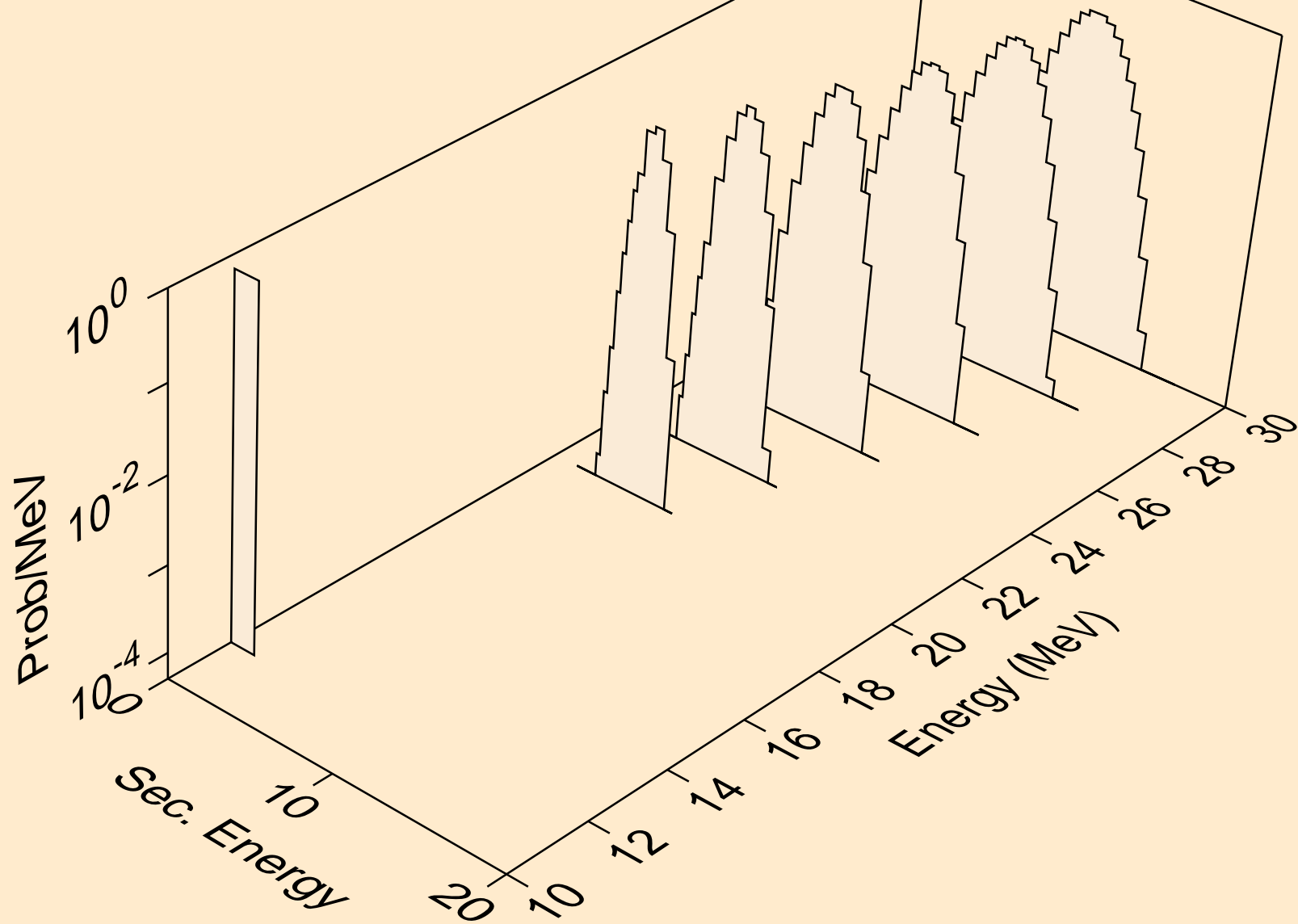
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deuterons from (n,n\*)d



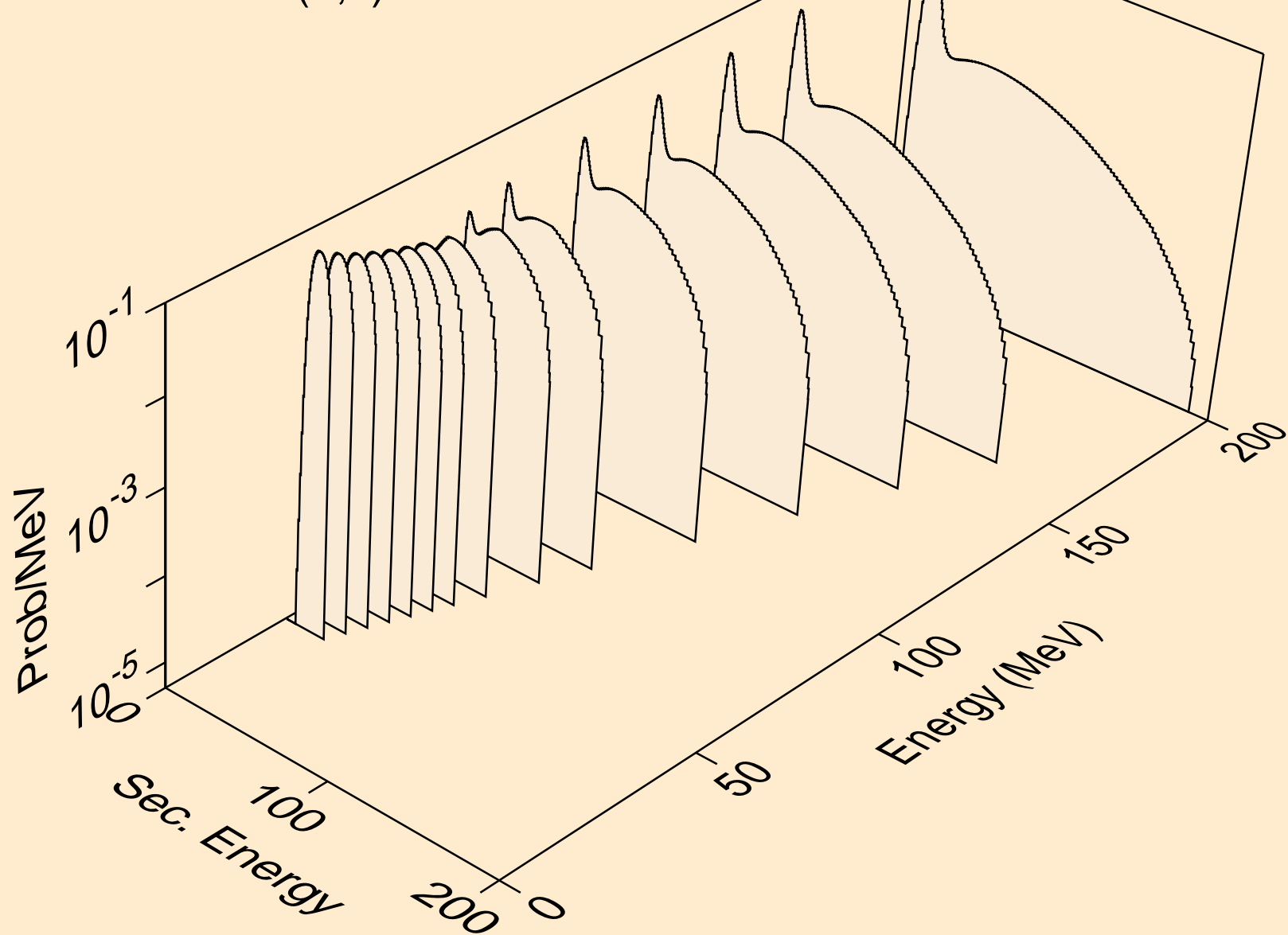
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deuterons from (n,d)



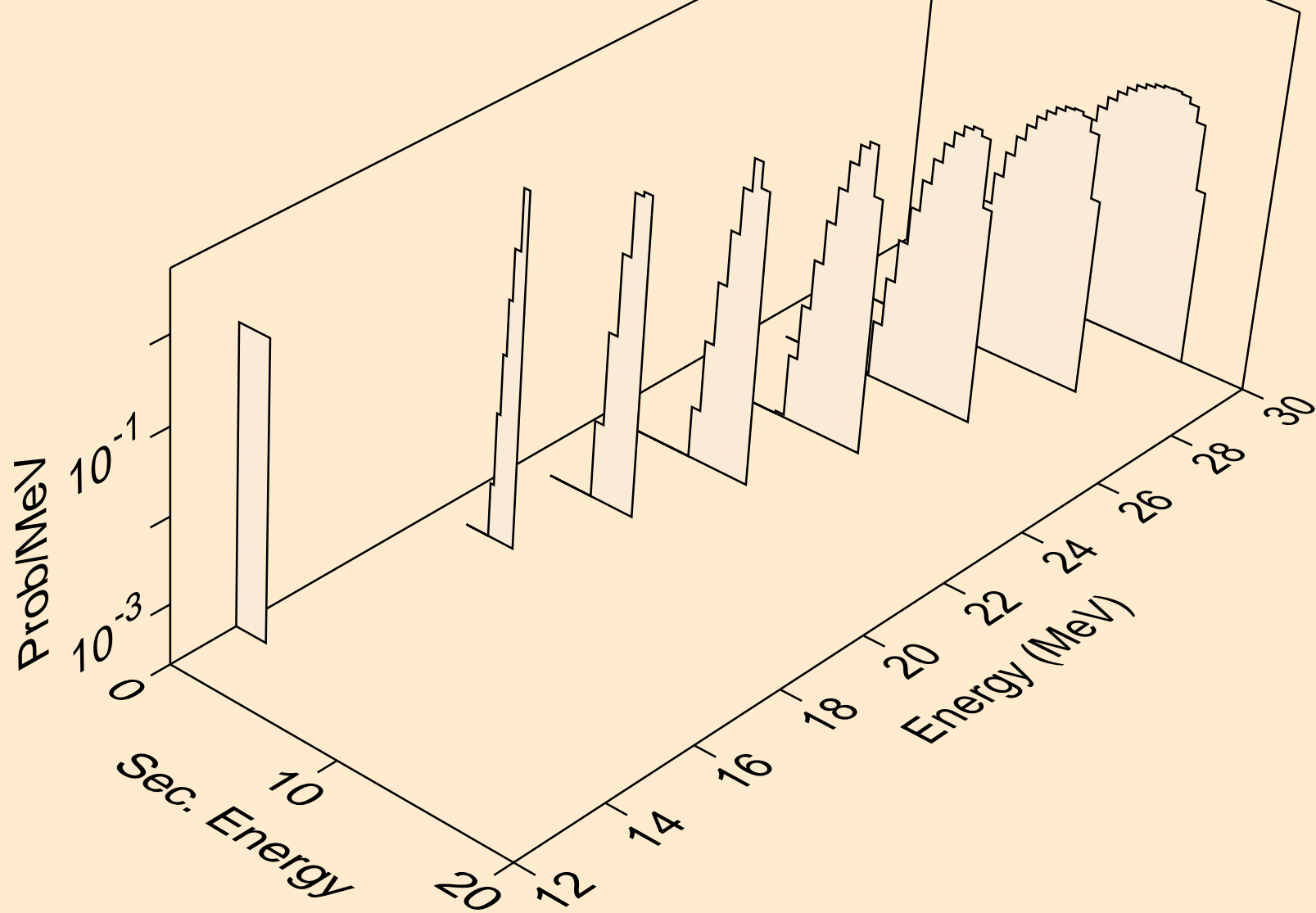
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deuterons from (n,pd)



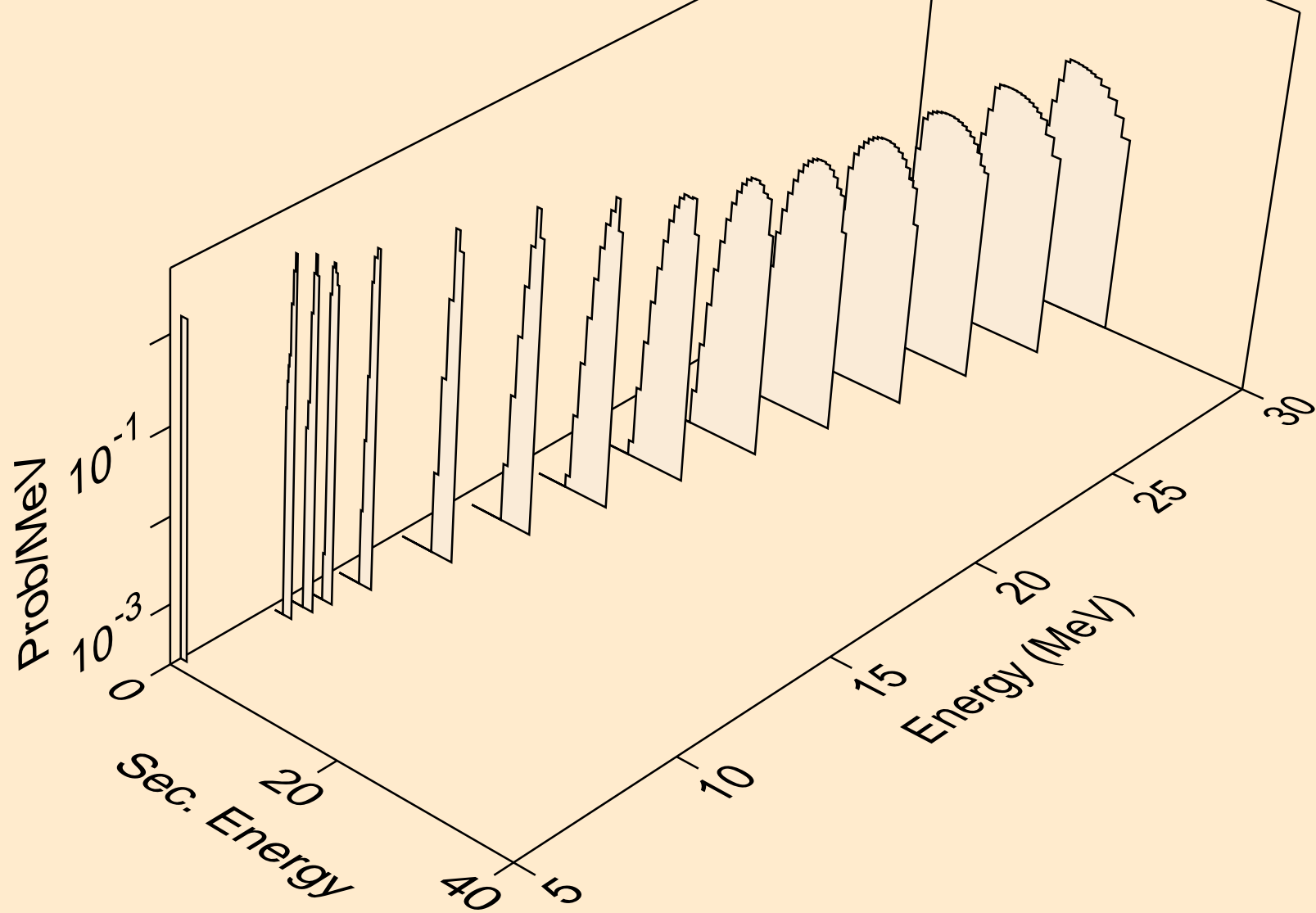
HG199 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
tritons from (n,x)



HG199 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
tritons from (n,n\*)t

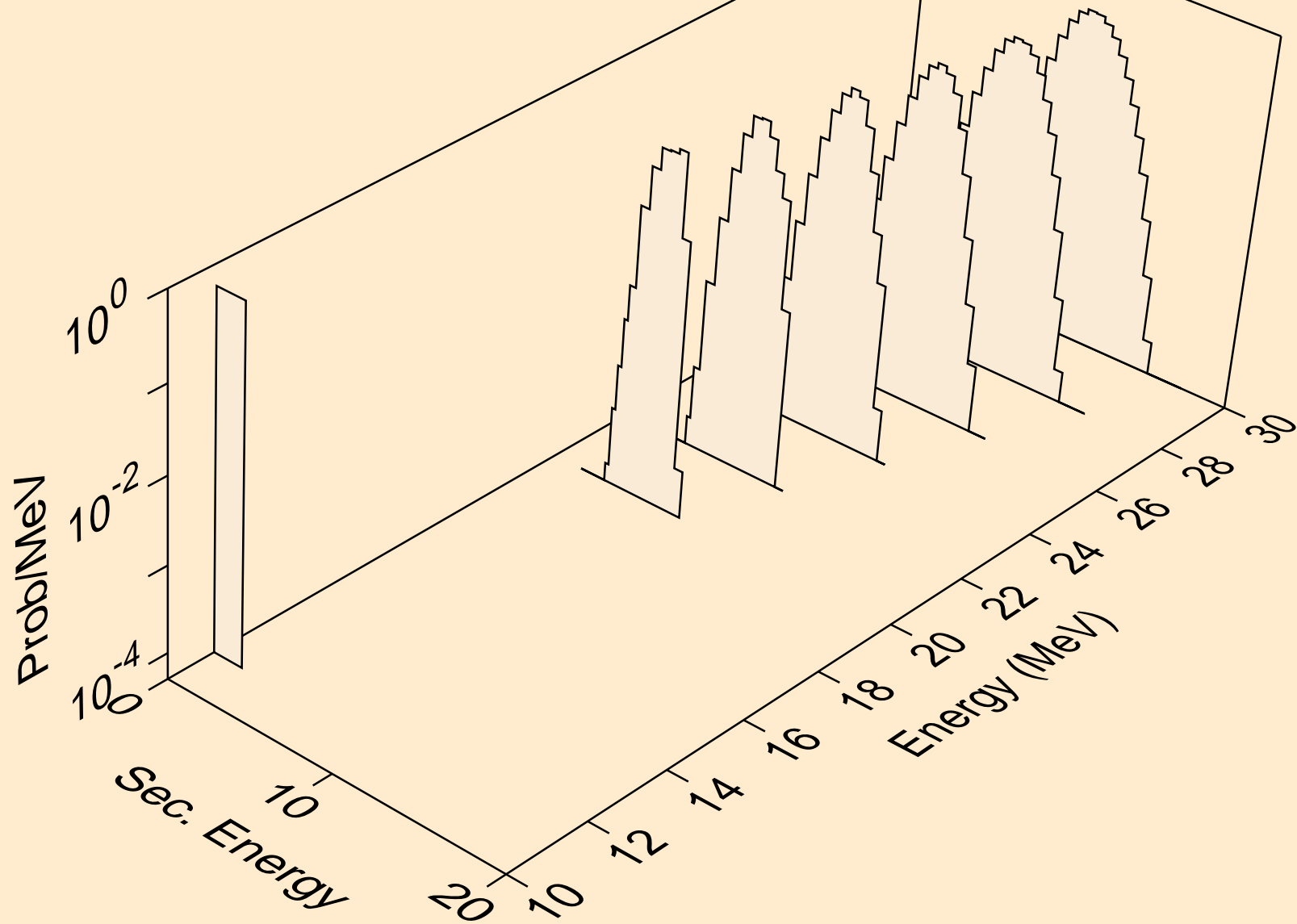


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tritons from (n,t)

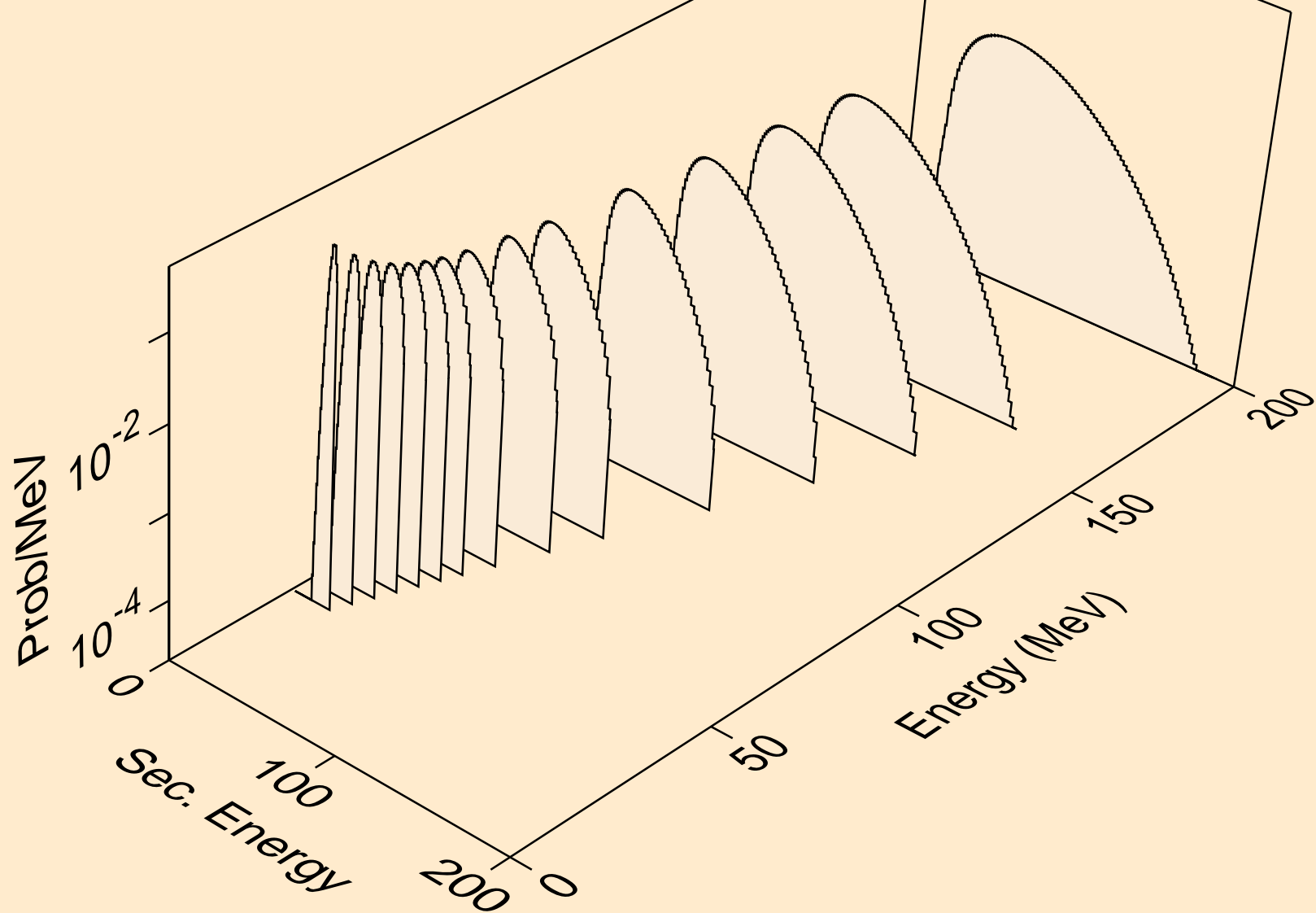




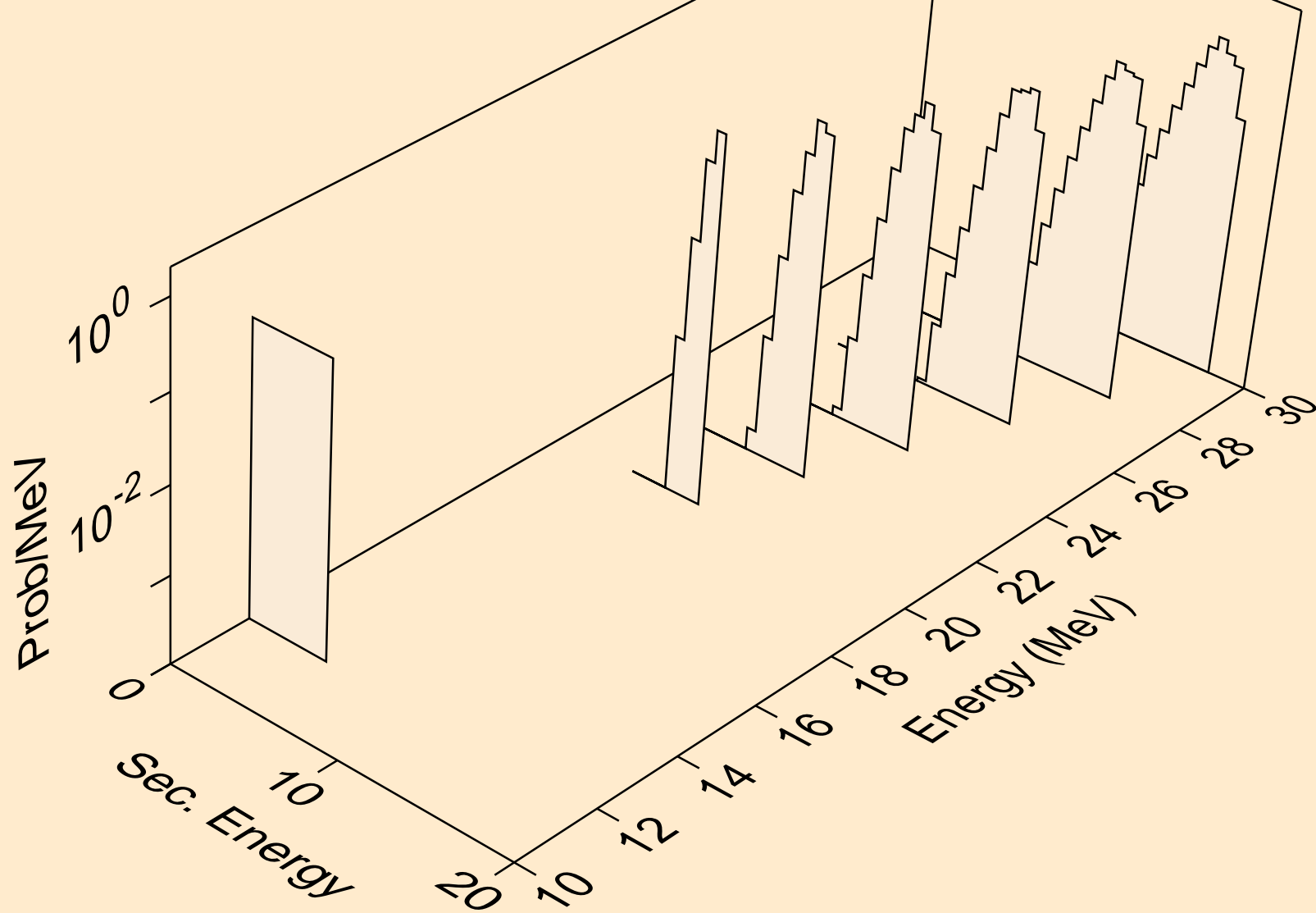
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tritons from (n,pt)



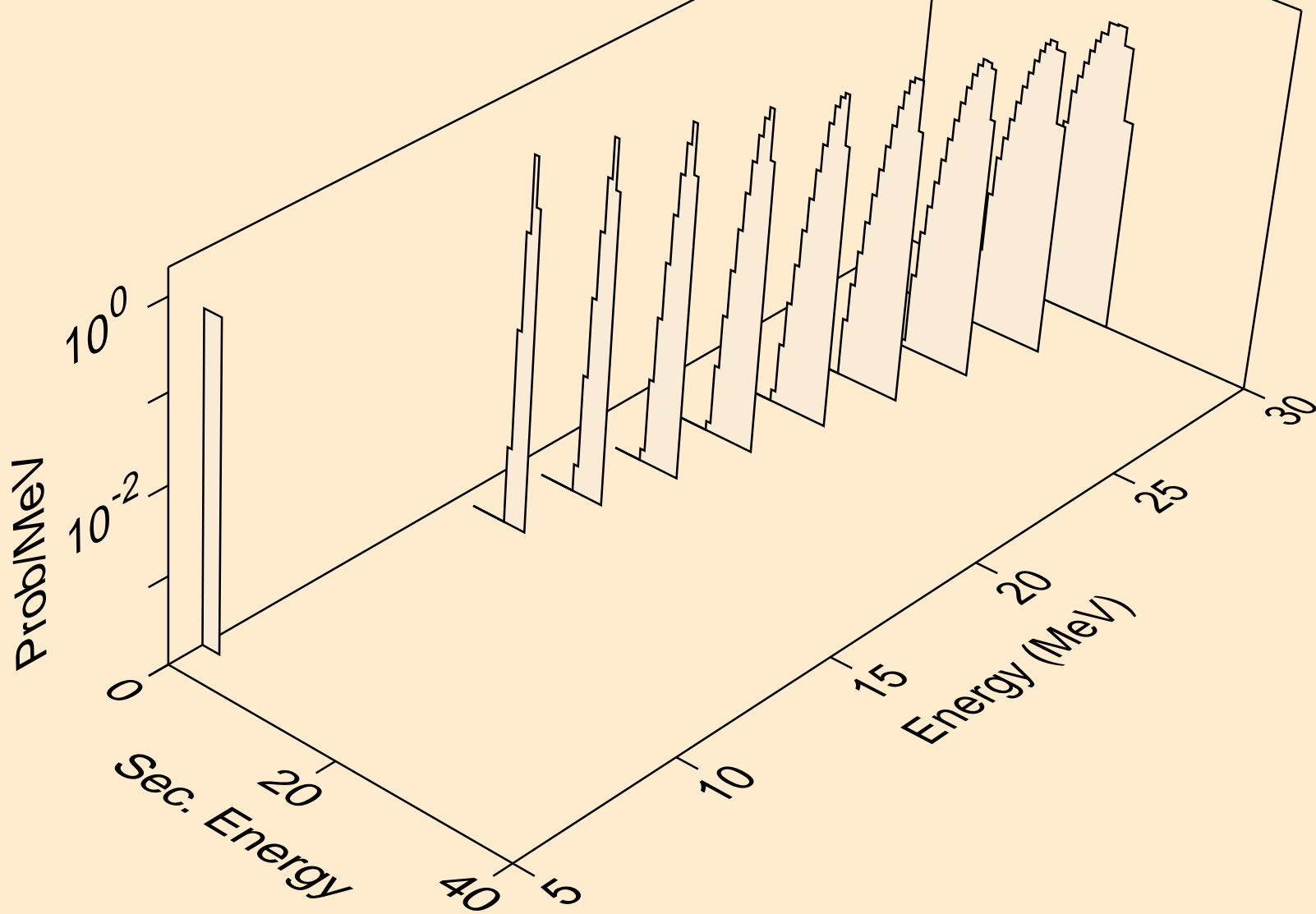
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he3s from (n,x)



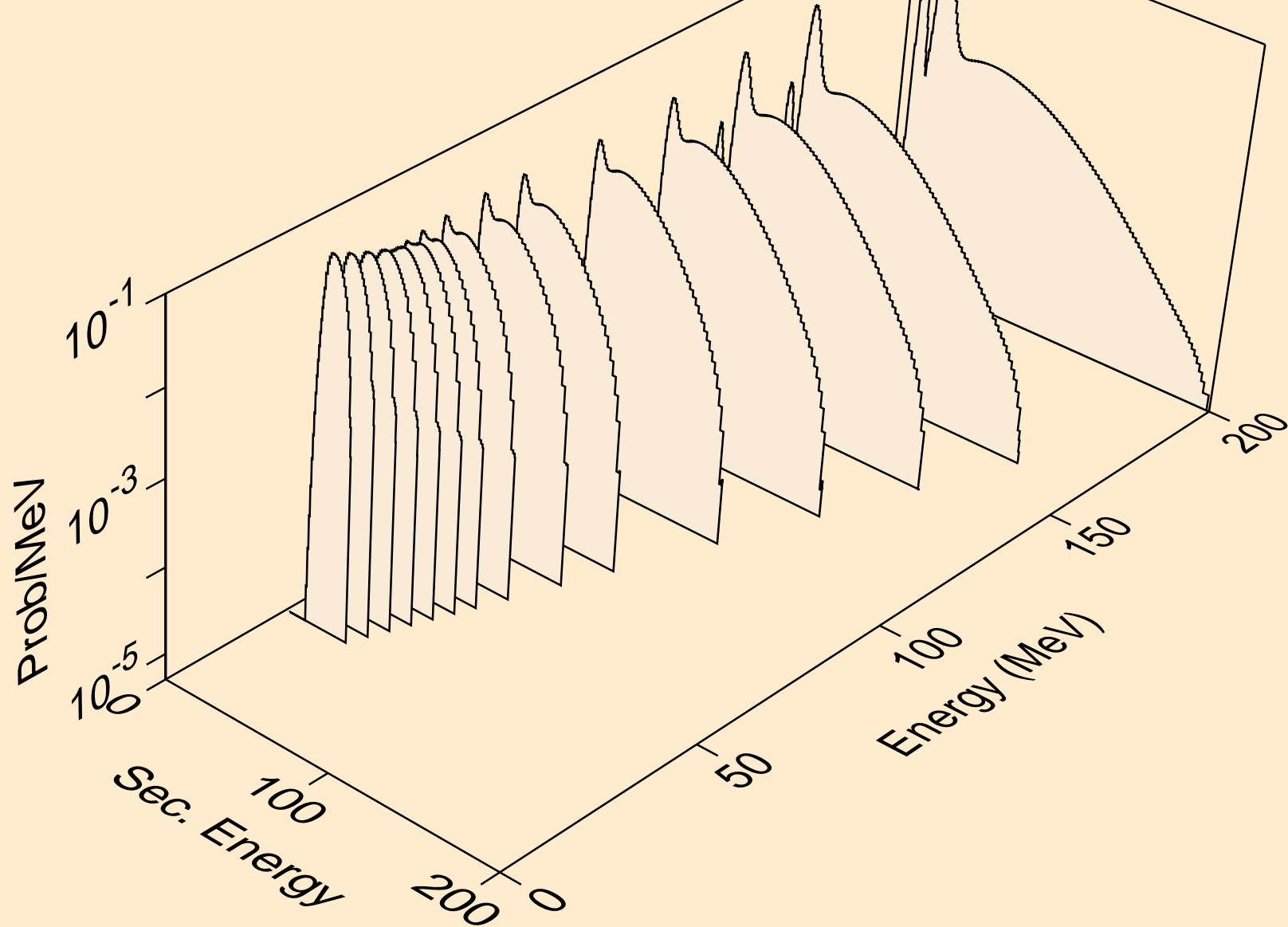
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he3s from (n,n\*)he3



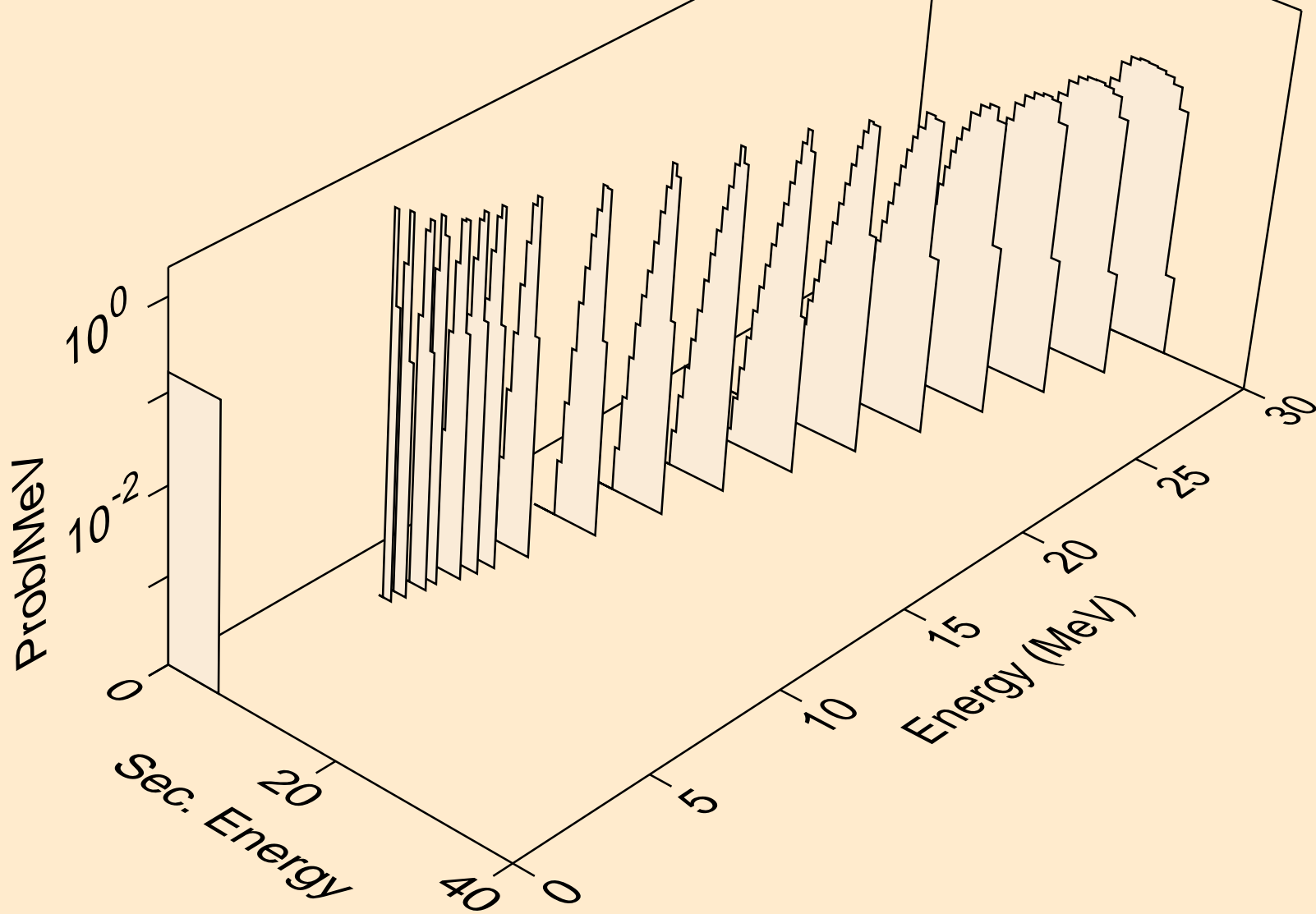
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he3s from (n,he3)



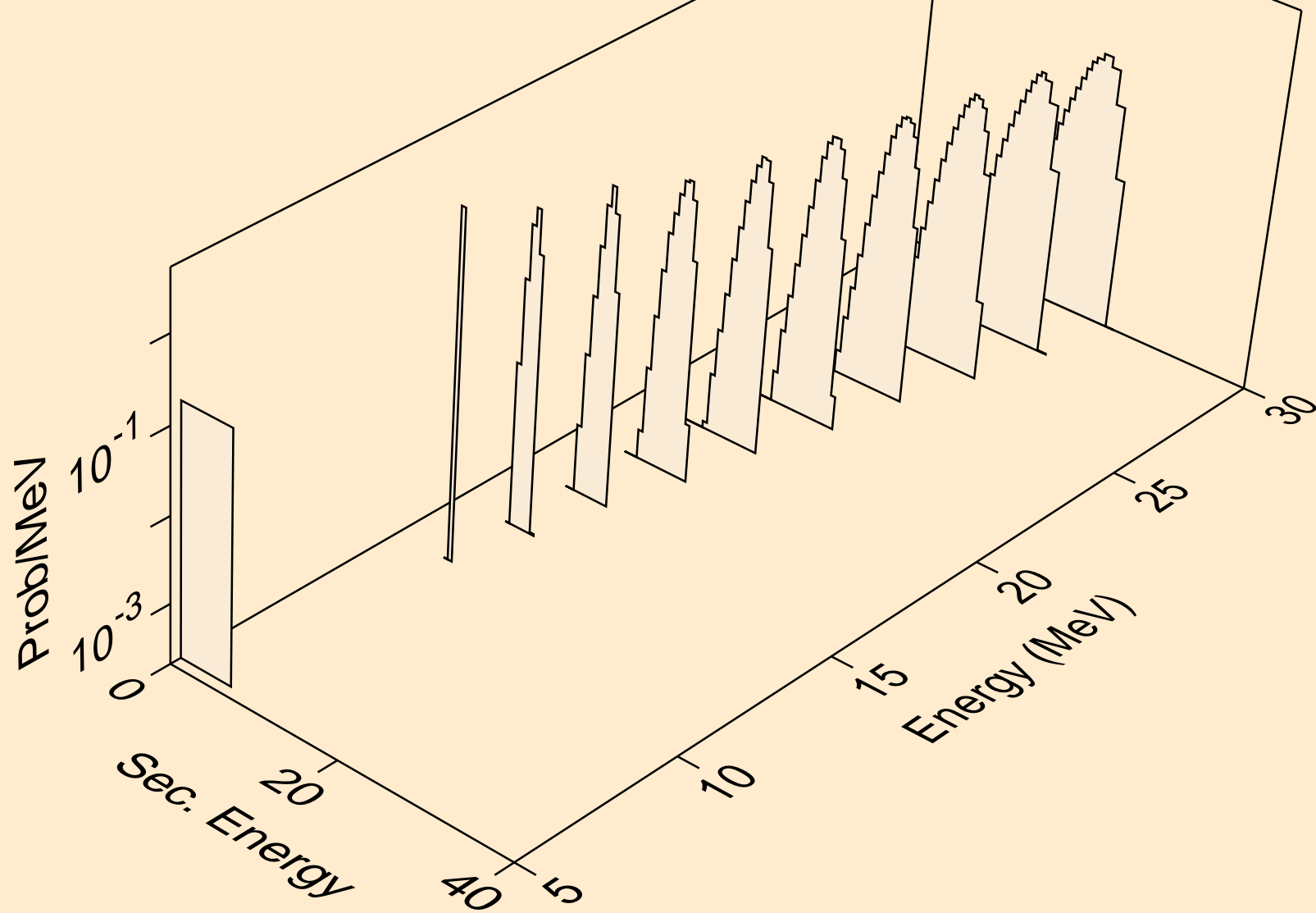
HG199 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
alphas from (n,x)



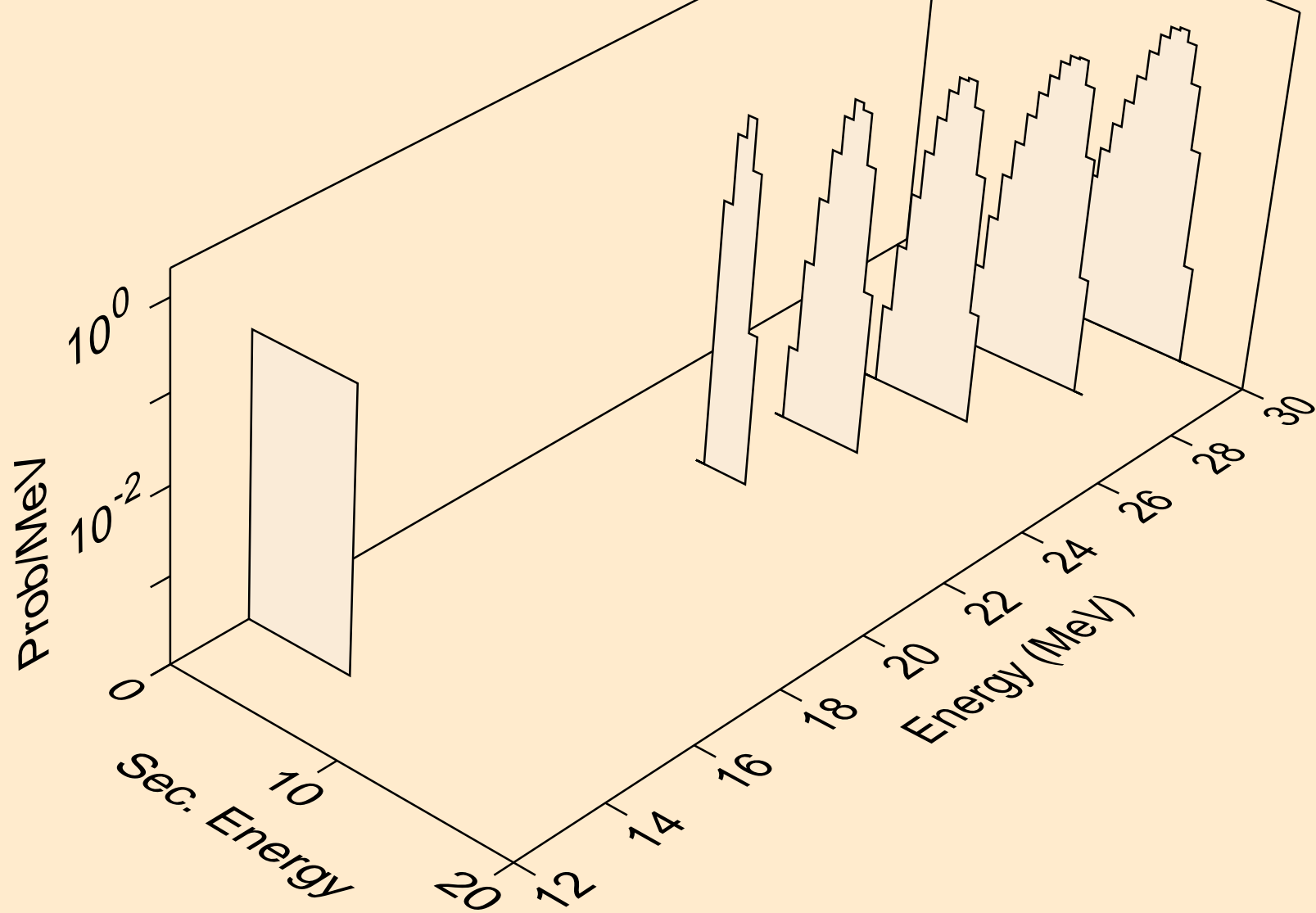
HG199 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
alphas from (n,n\*)a



HG199 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
alphas from (n,2n)a

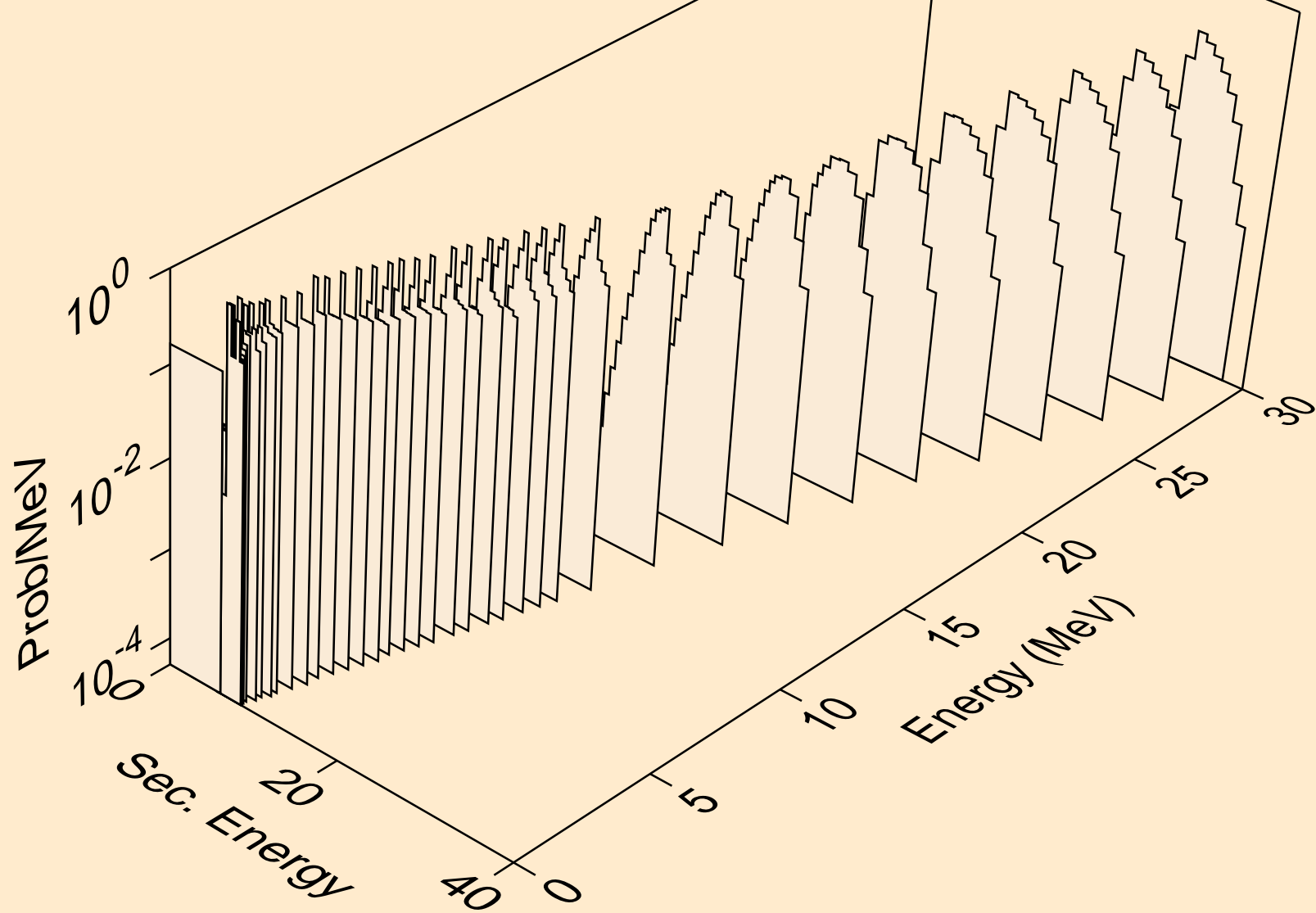


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alphas from (n,3n)a

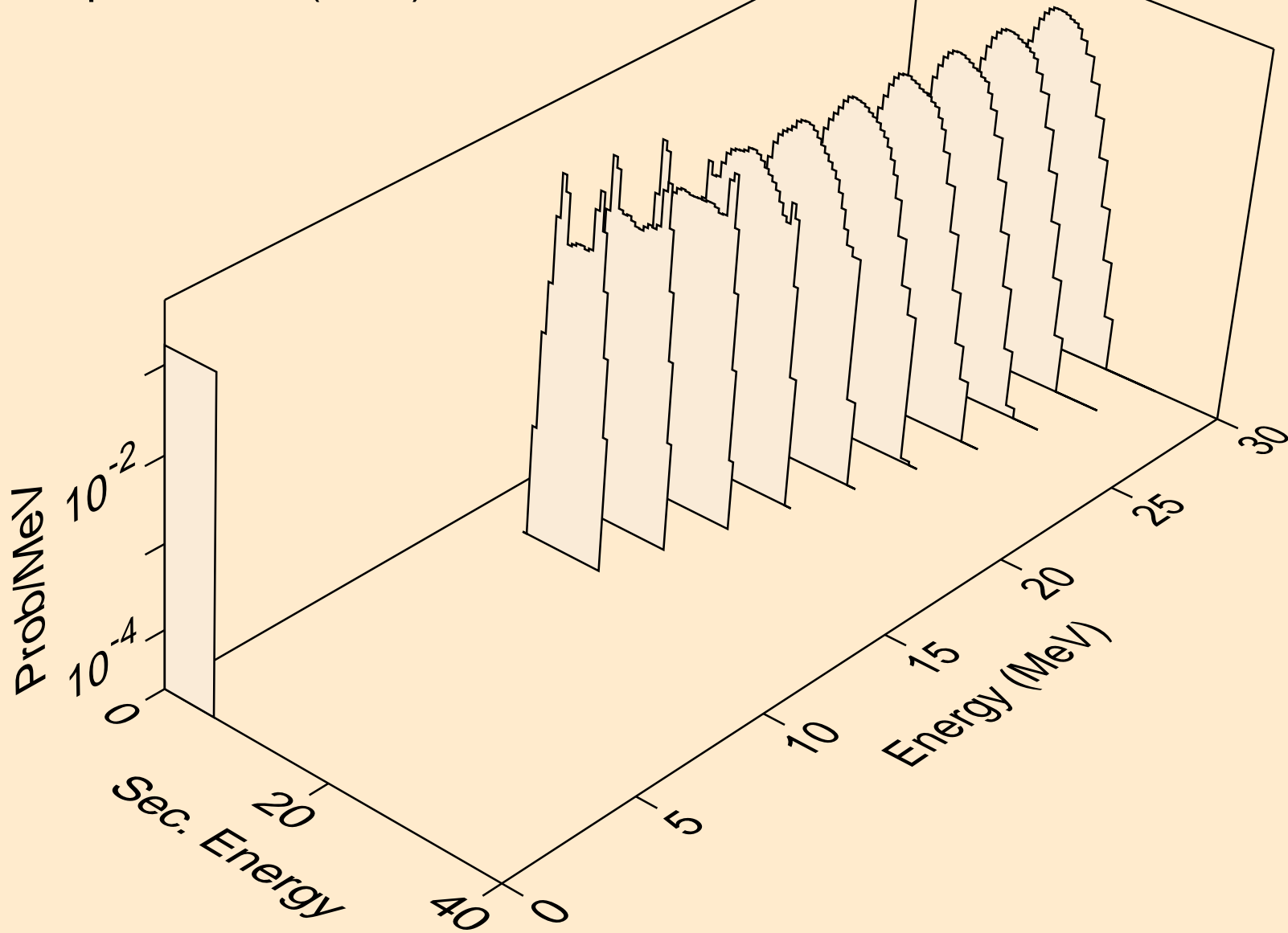




HG199 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
alphas from (n,a)



HG199 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
alphas from (n,2a)



HG199 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
alphas from (n,pa)

