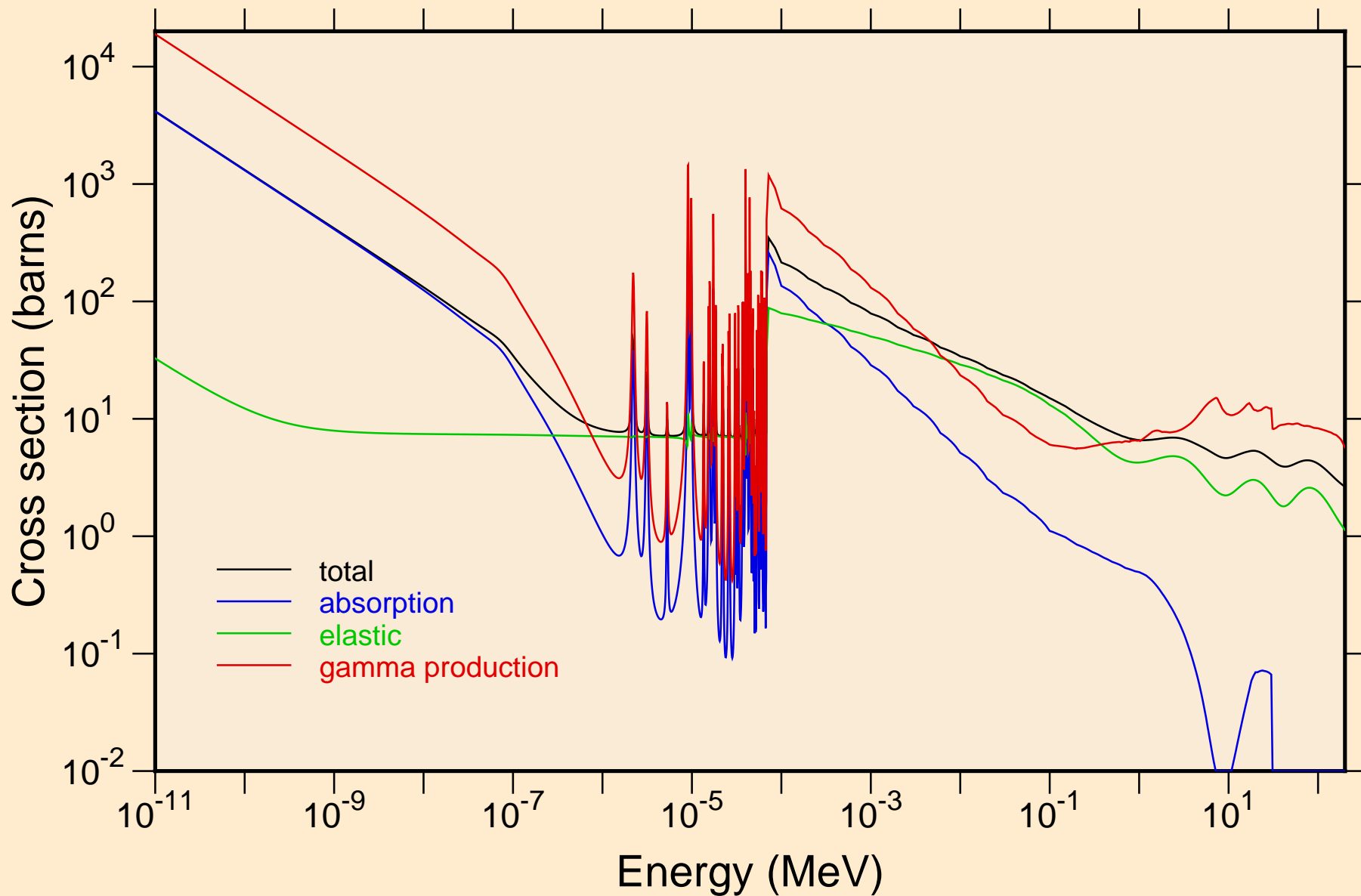
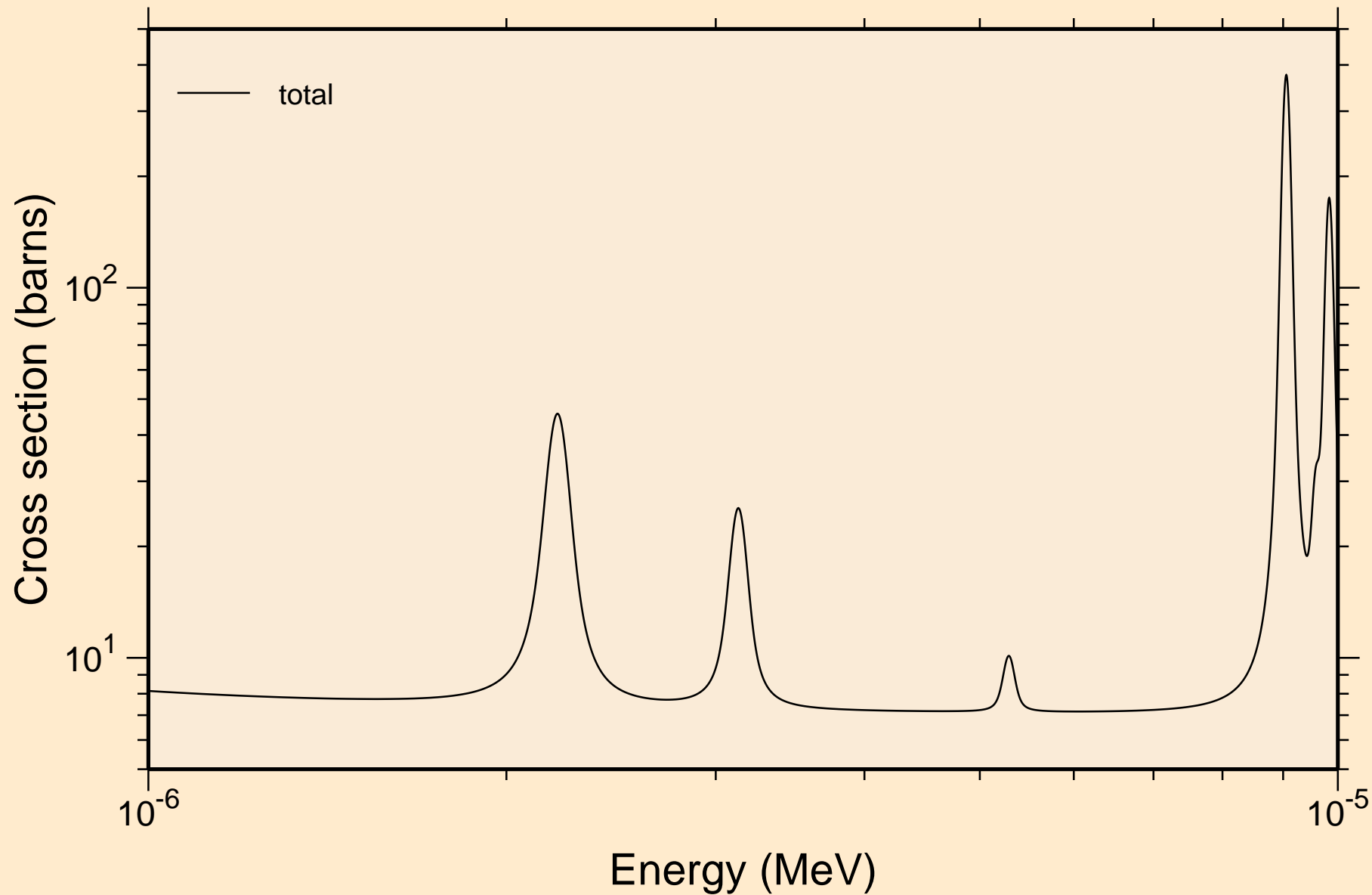


# HF173 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K

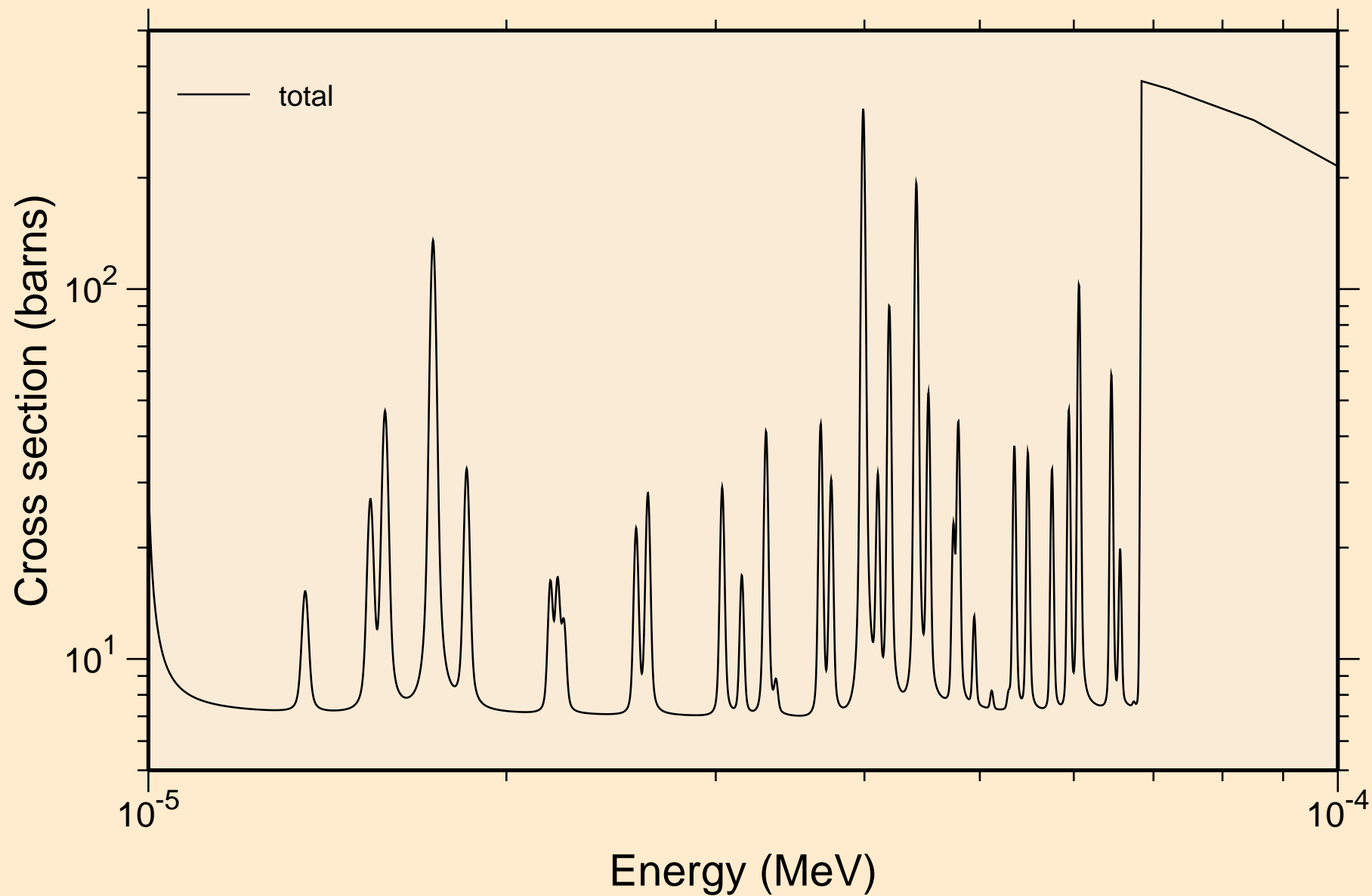
## Principal cross sections



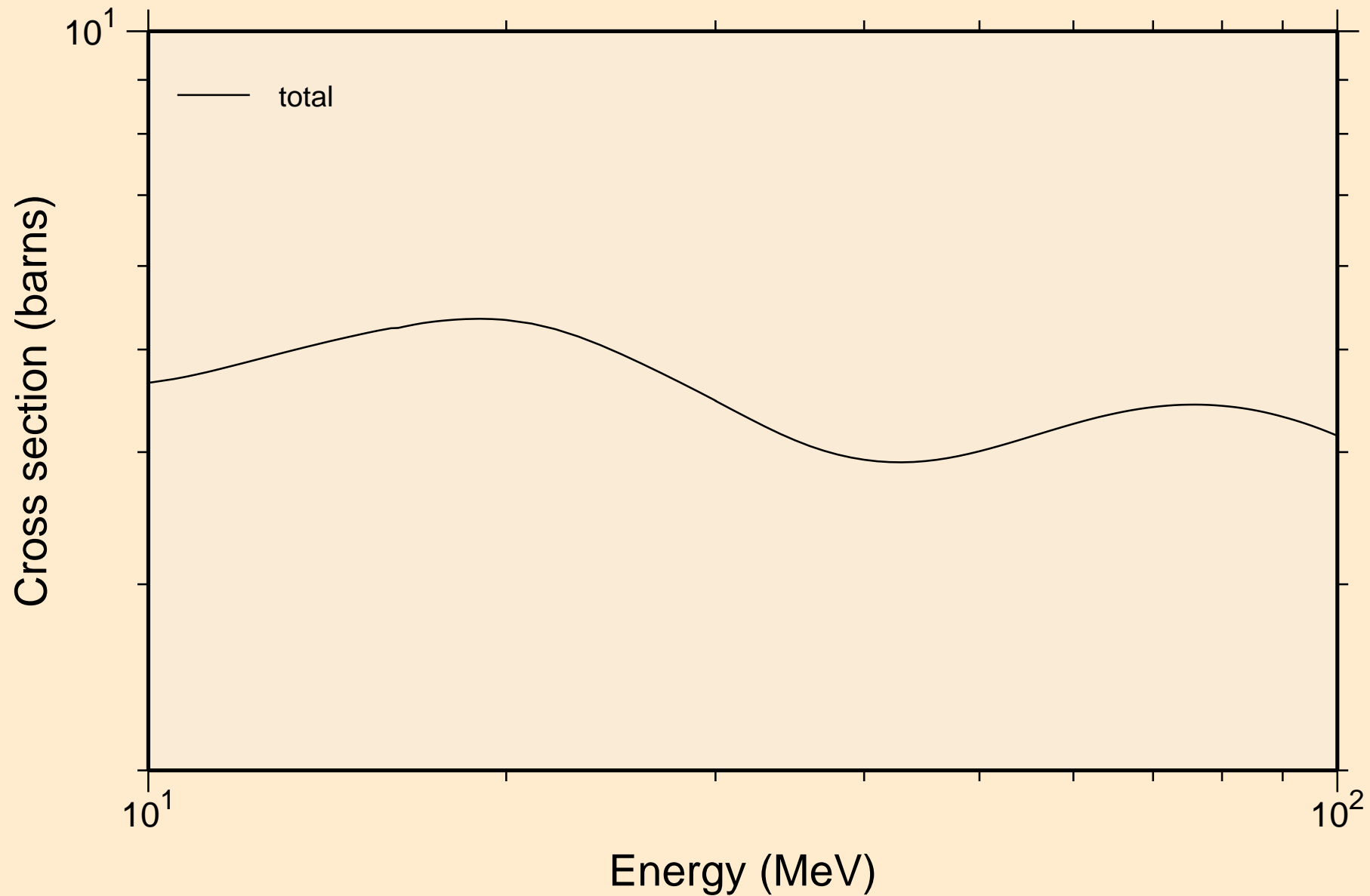
HF173 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
resonance total cross section



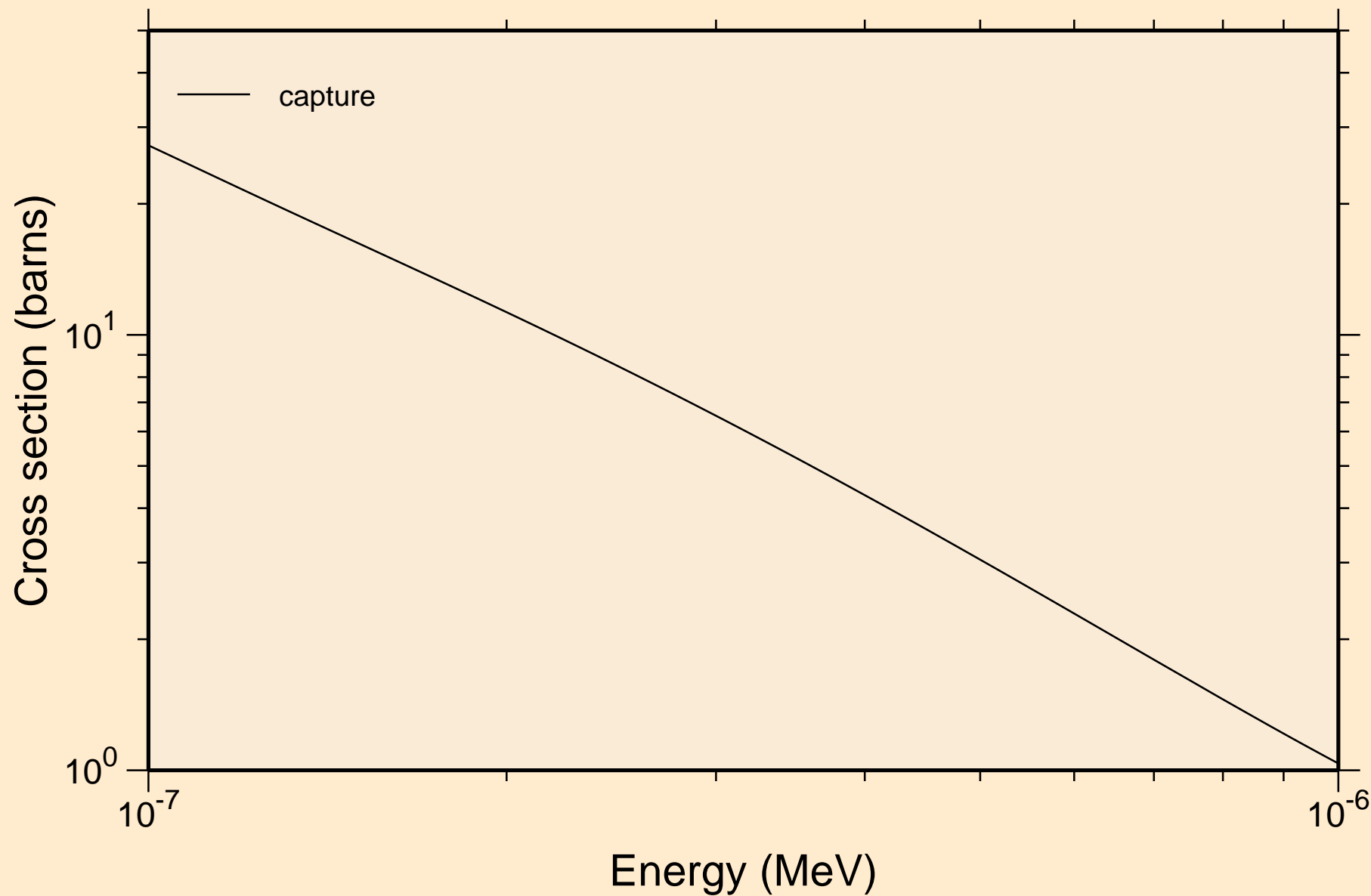
HF173 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
resonance total cross section



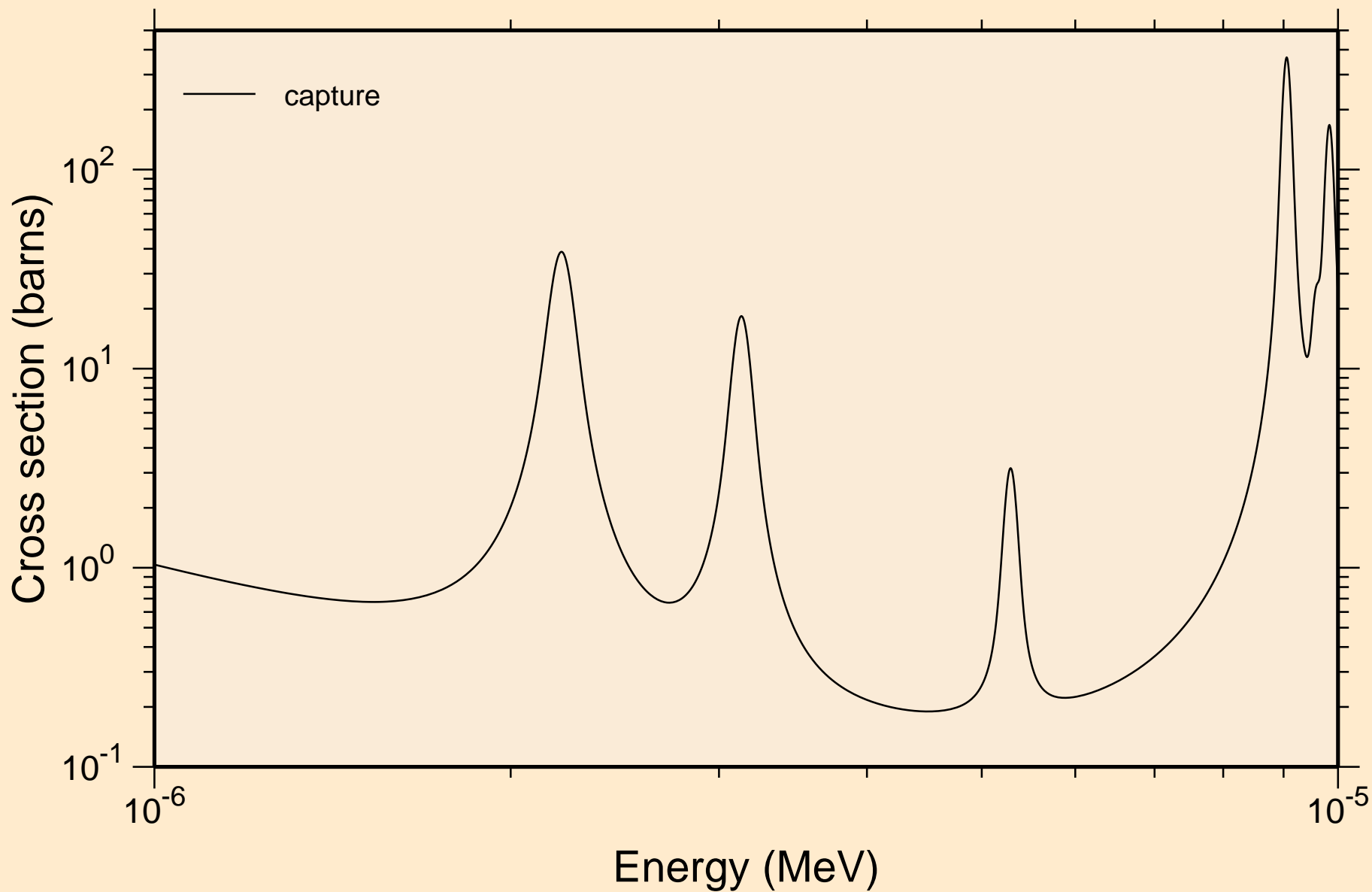
HF173 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
resonance total cross section



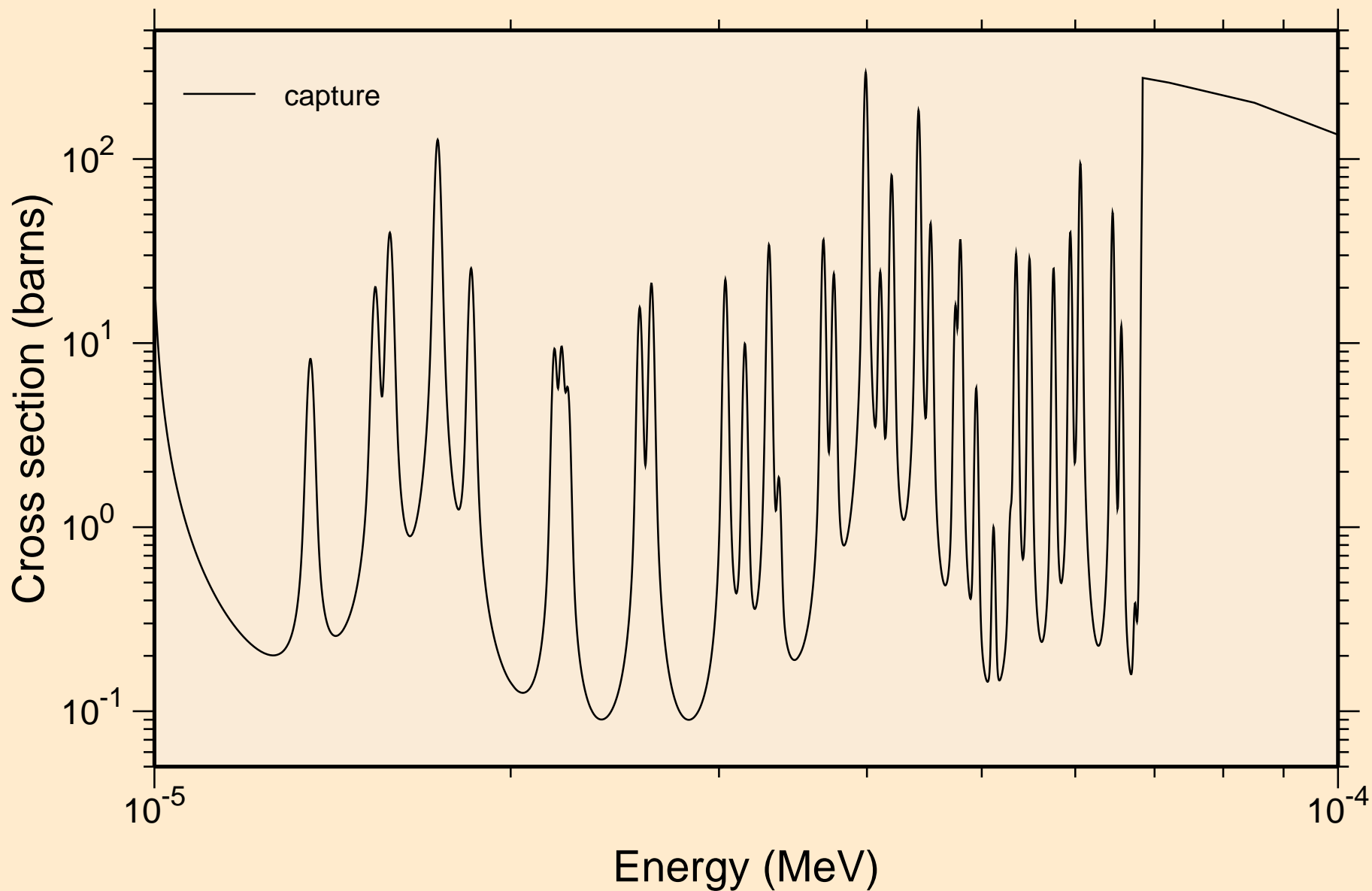
HF173 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
resonance absorption cross sections



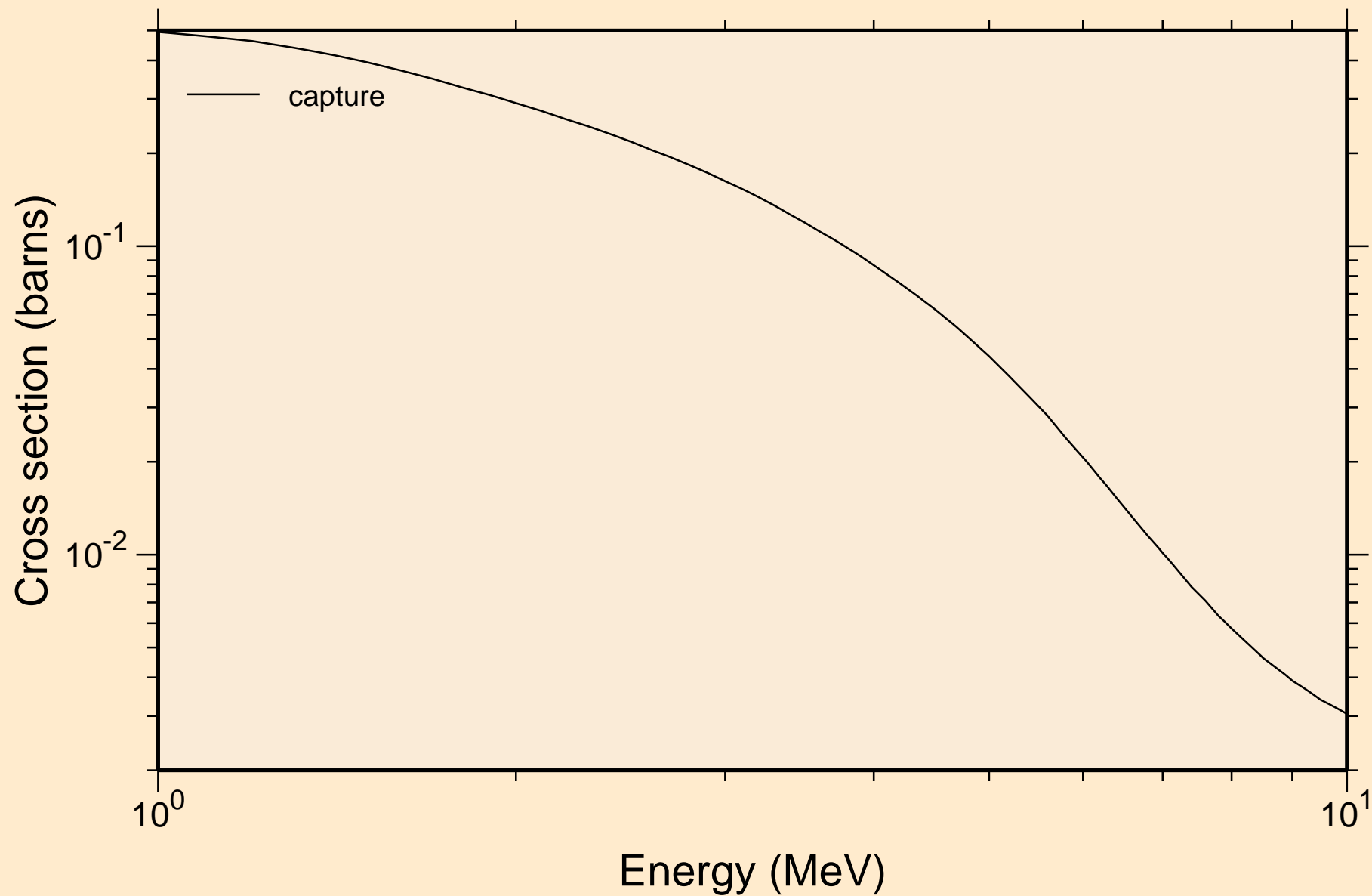
HF173 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
resonance absorption cross sections



HF173 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
resonance absorption cross sections

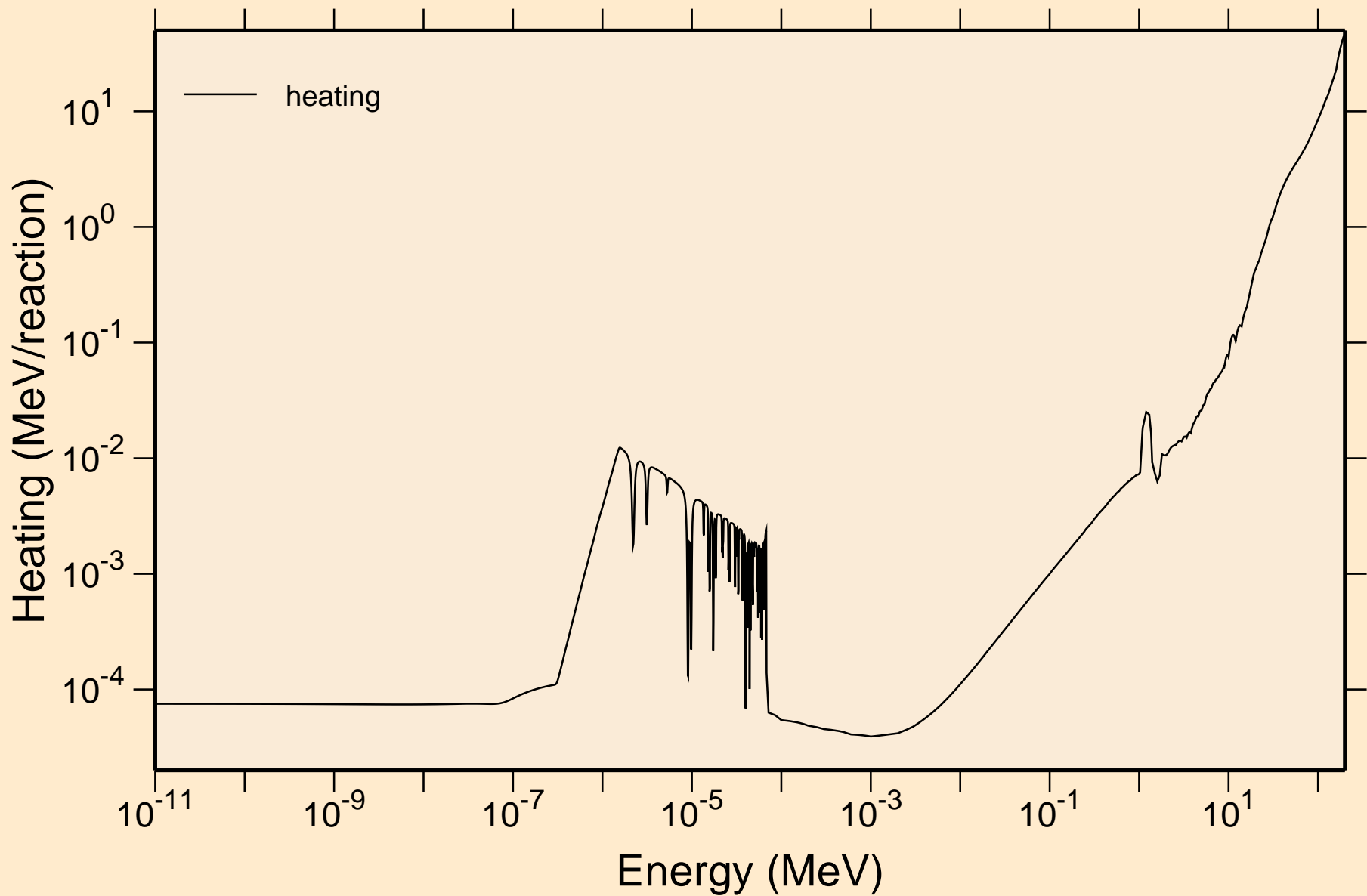


HF173 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
resonance absorption cross sections

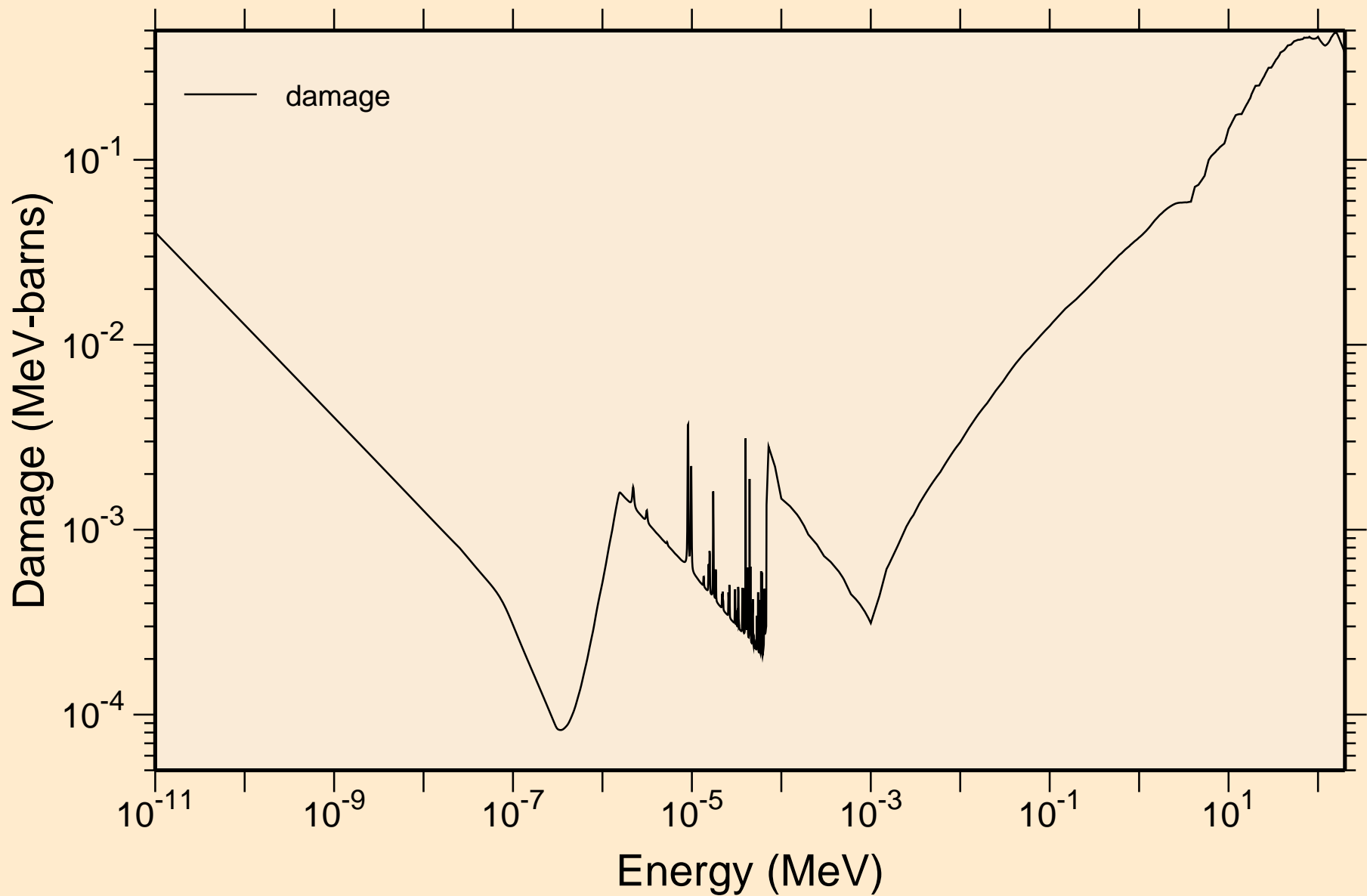




HF173 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Heating

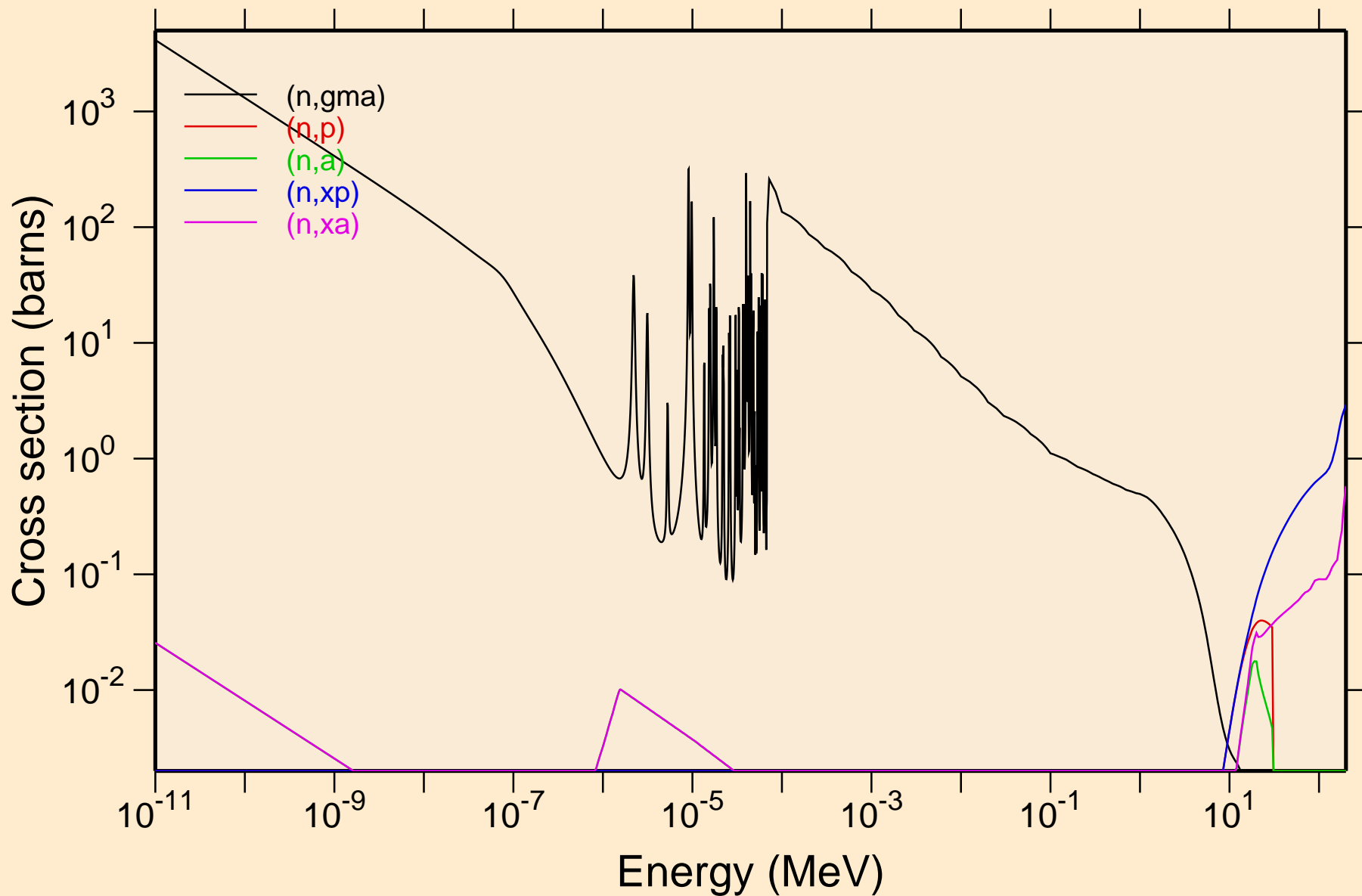


HF173 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Damage



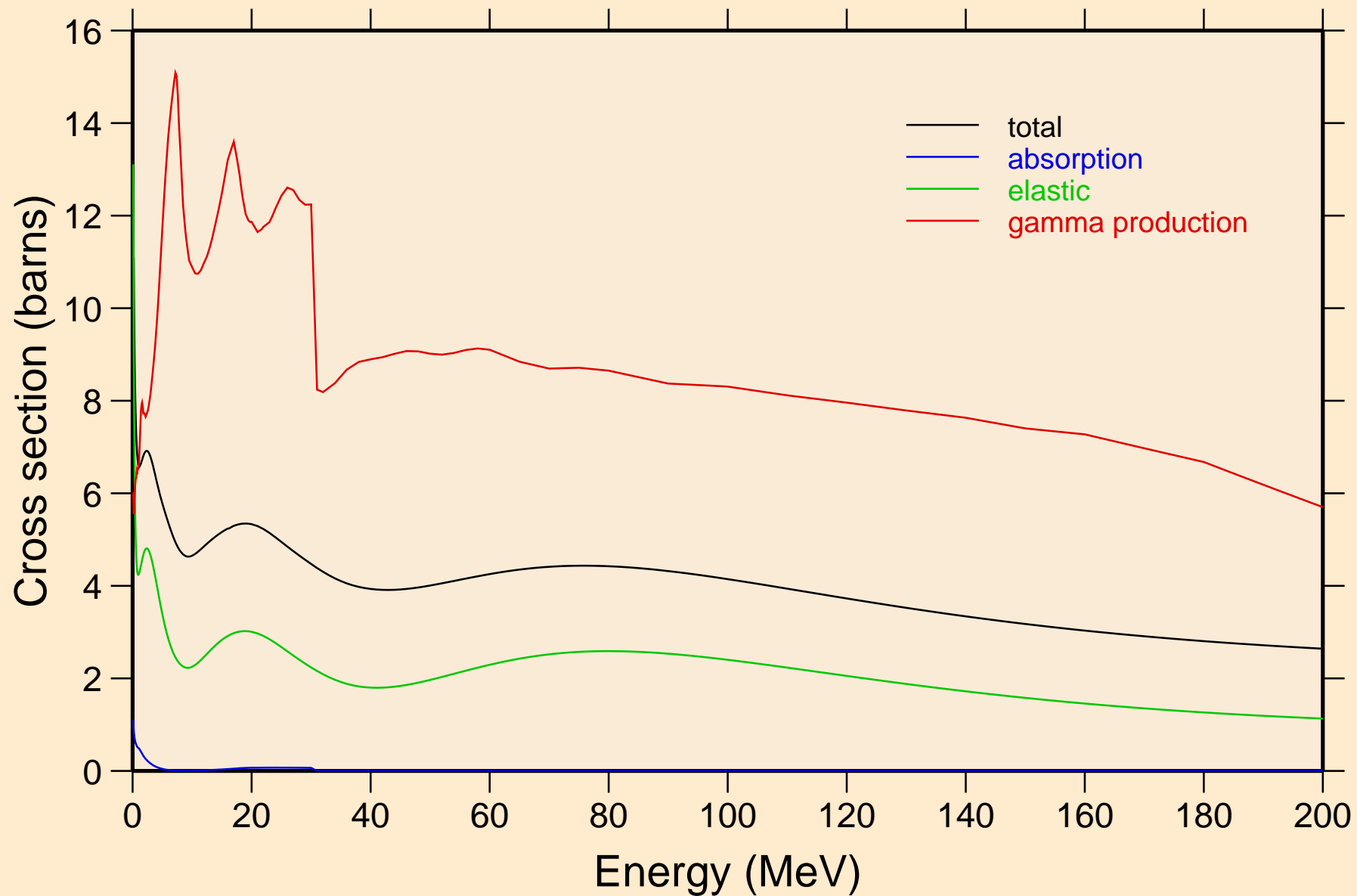
# HF173 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K

## Non-threshold reactions

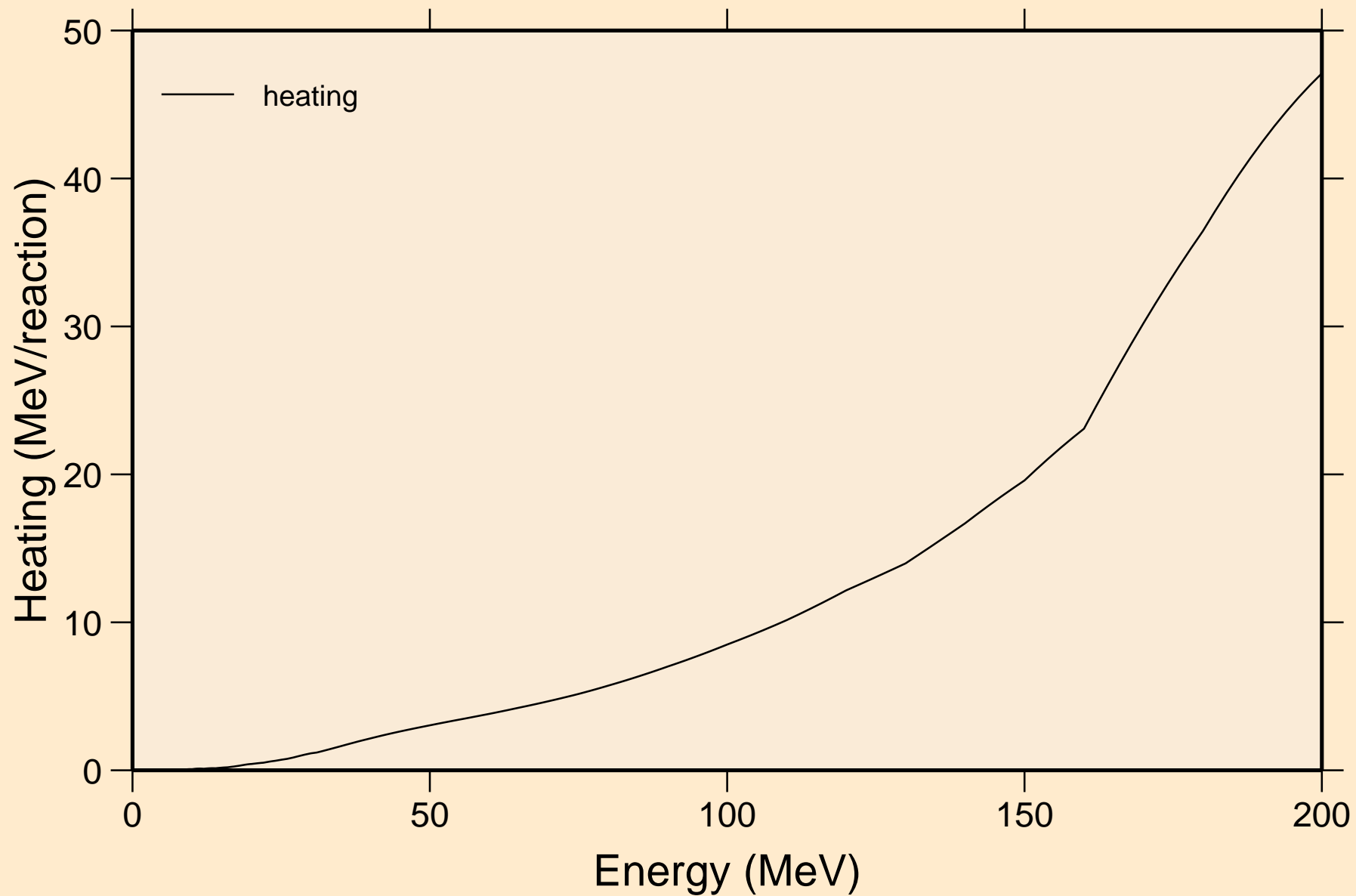


# HF173 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K

## Principal cross sections

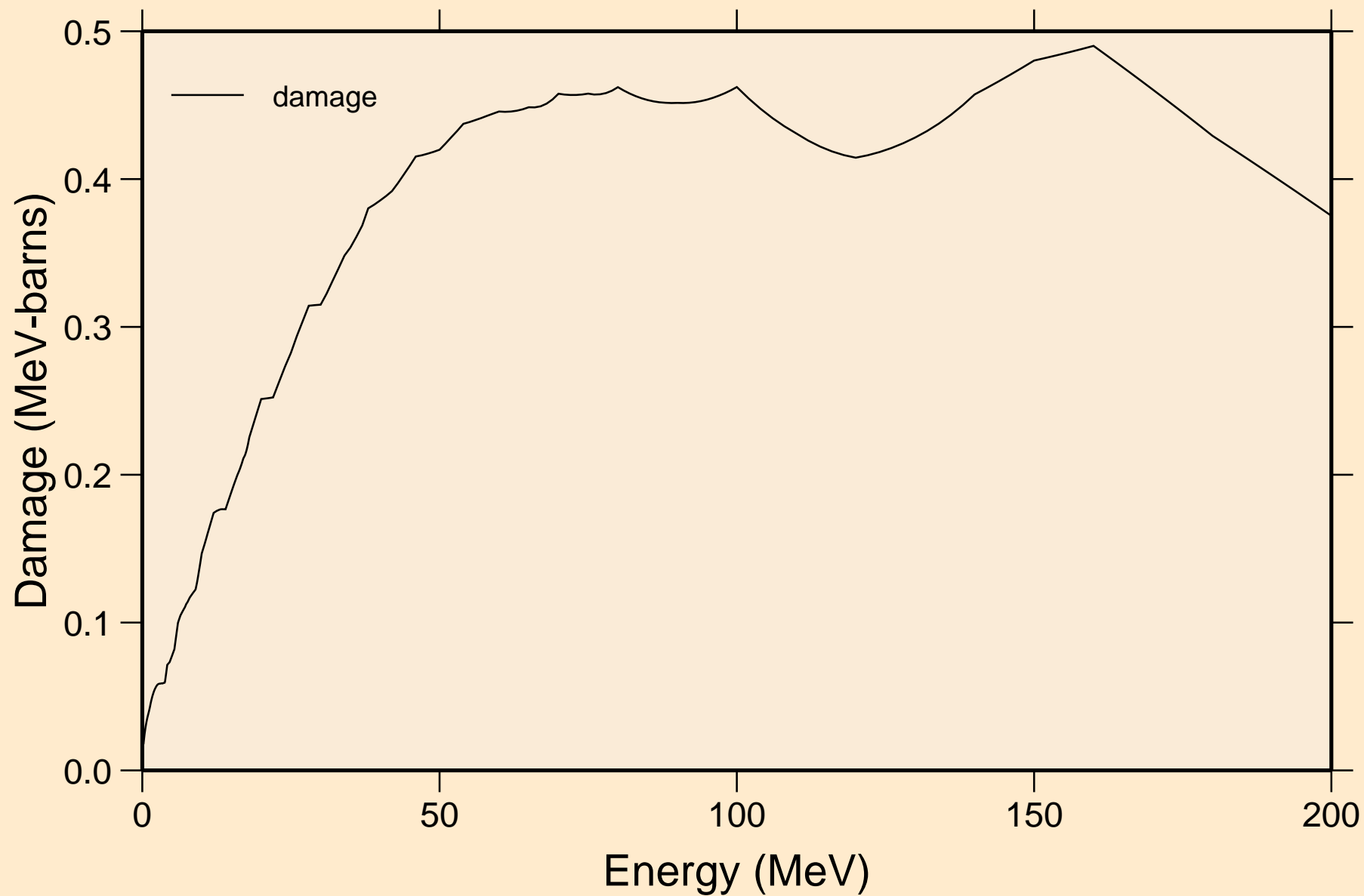


HF173 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Heating



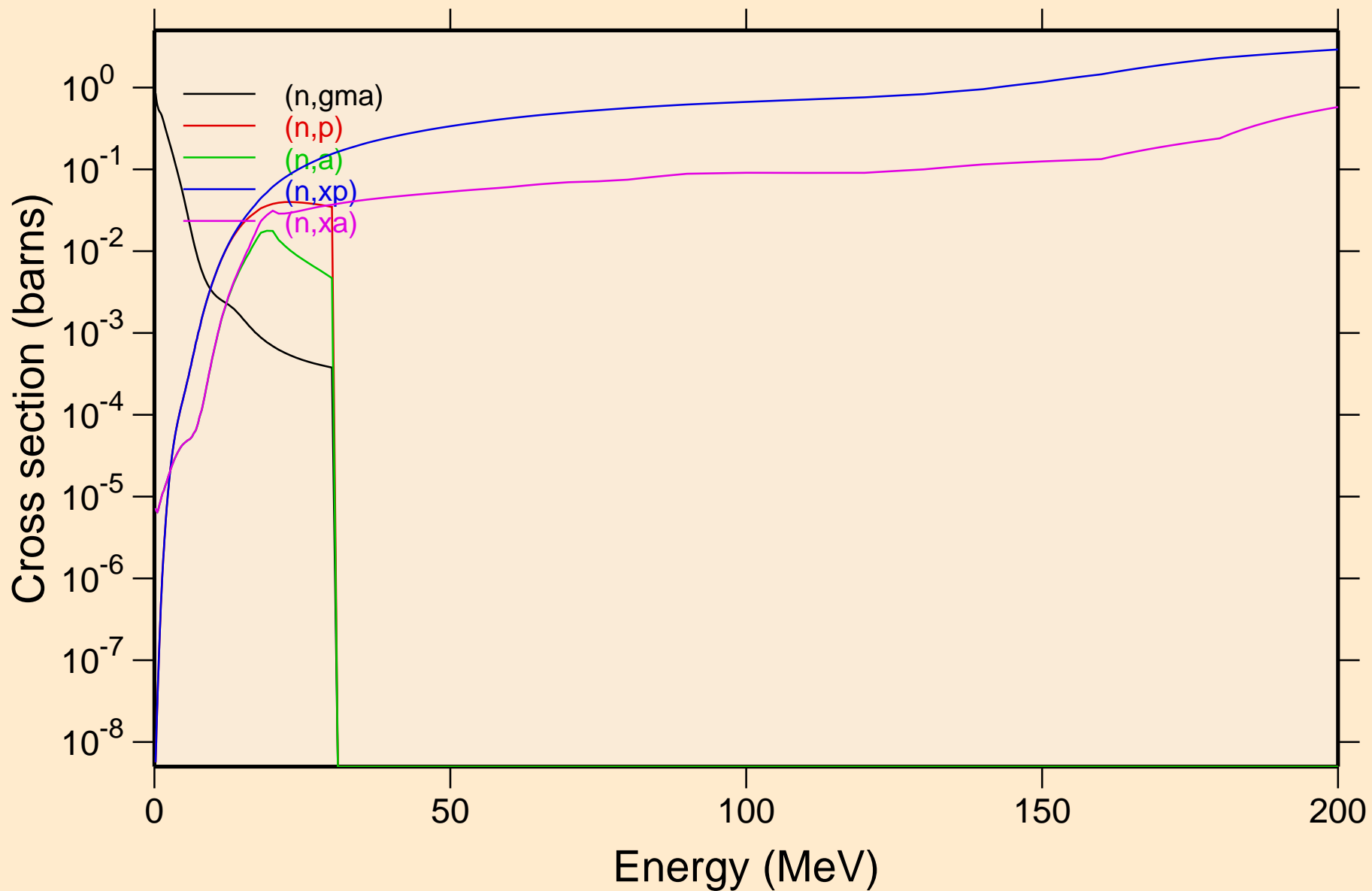
# HF173 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K

## Damage

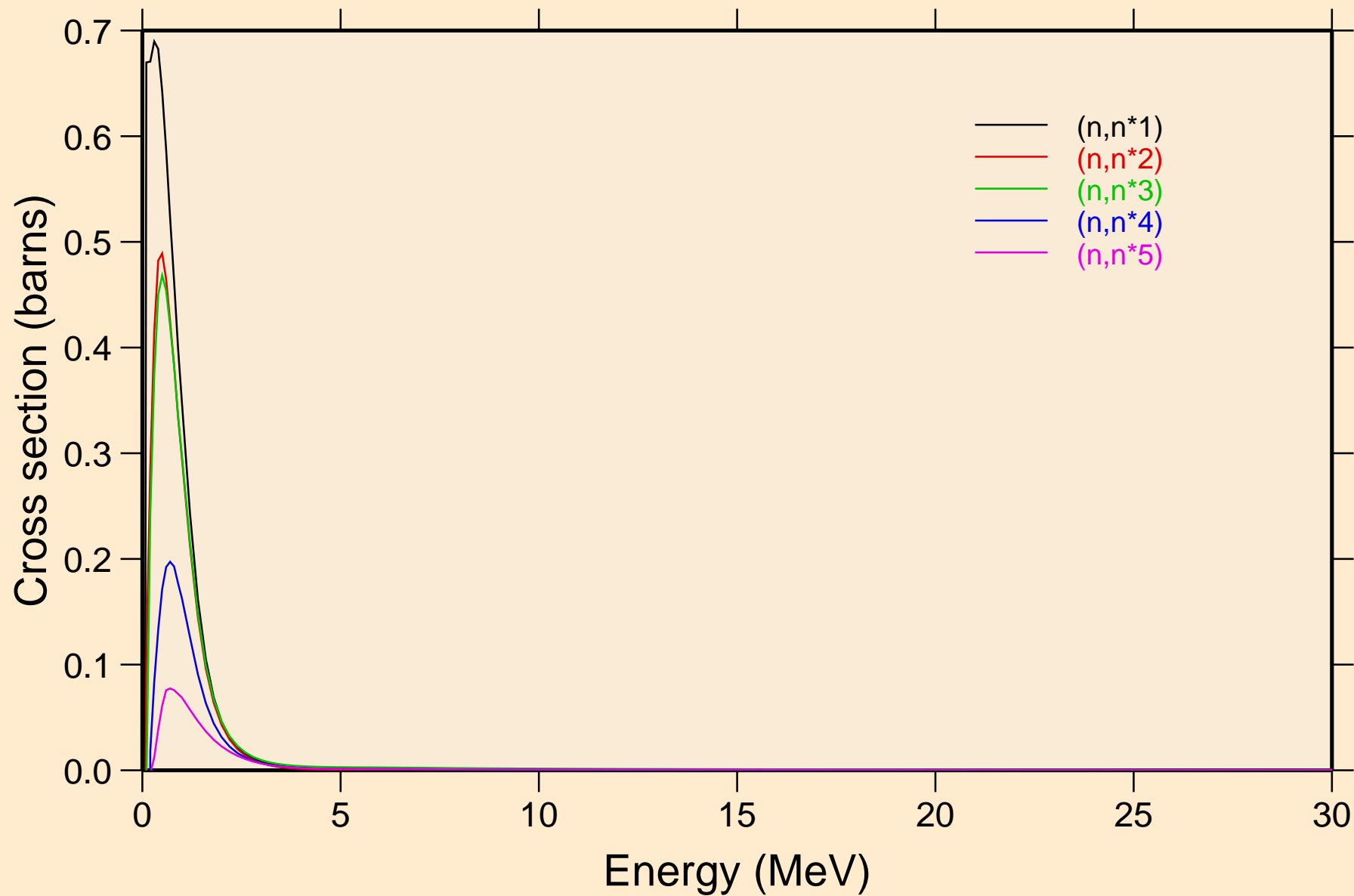


# HF173 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K

## Non-threshold reactions

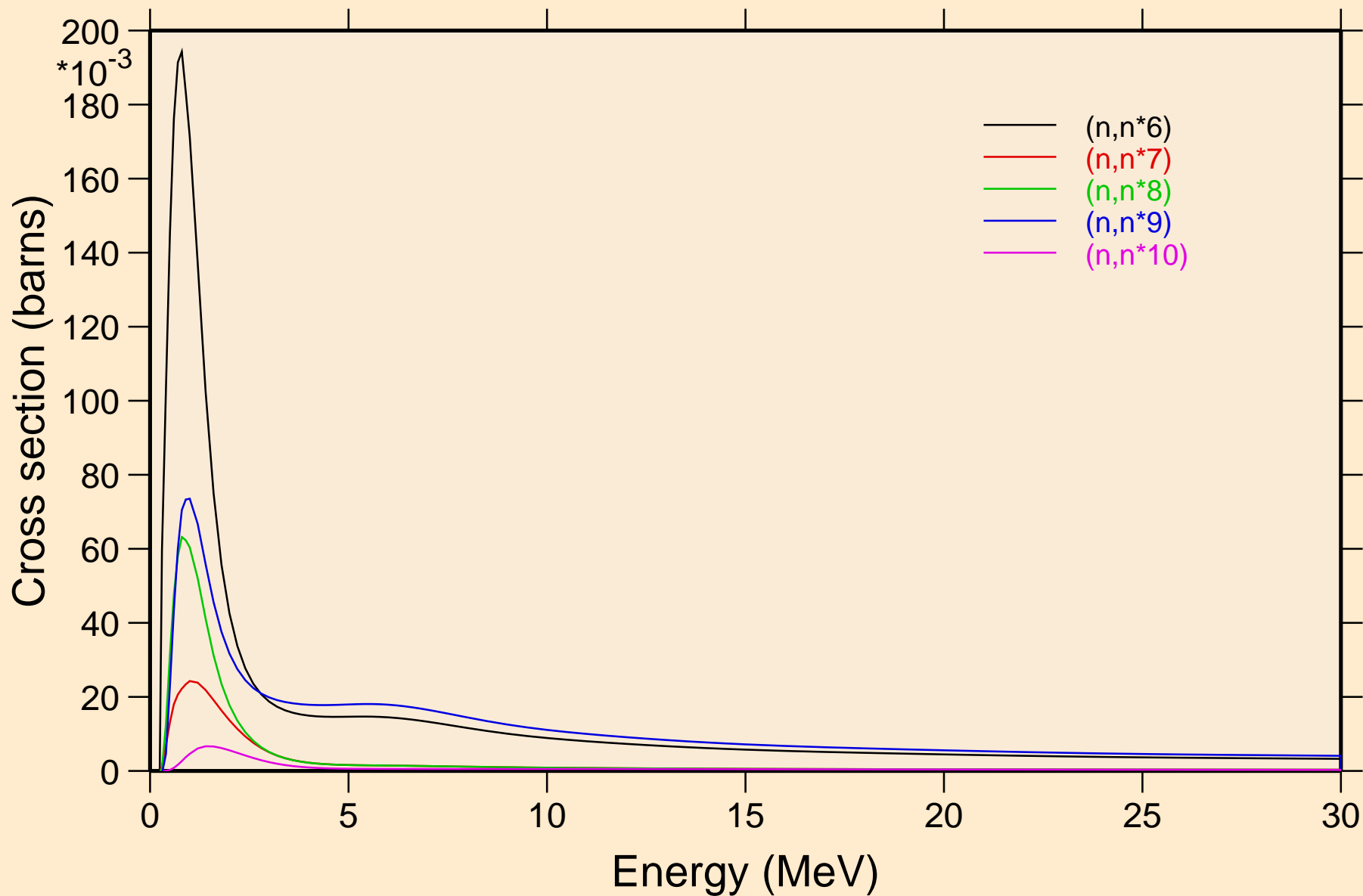


HF173 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Inelastic levels

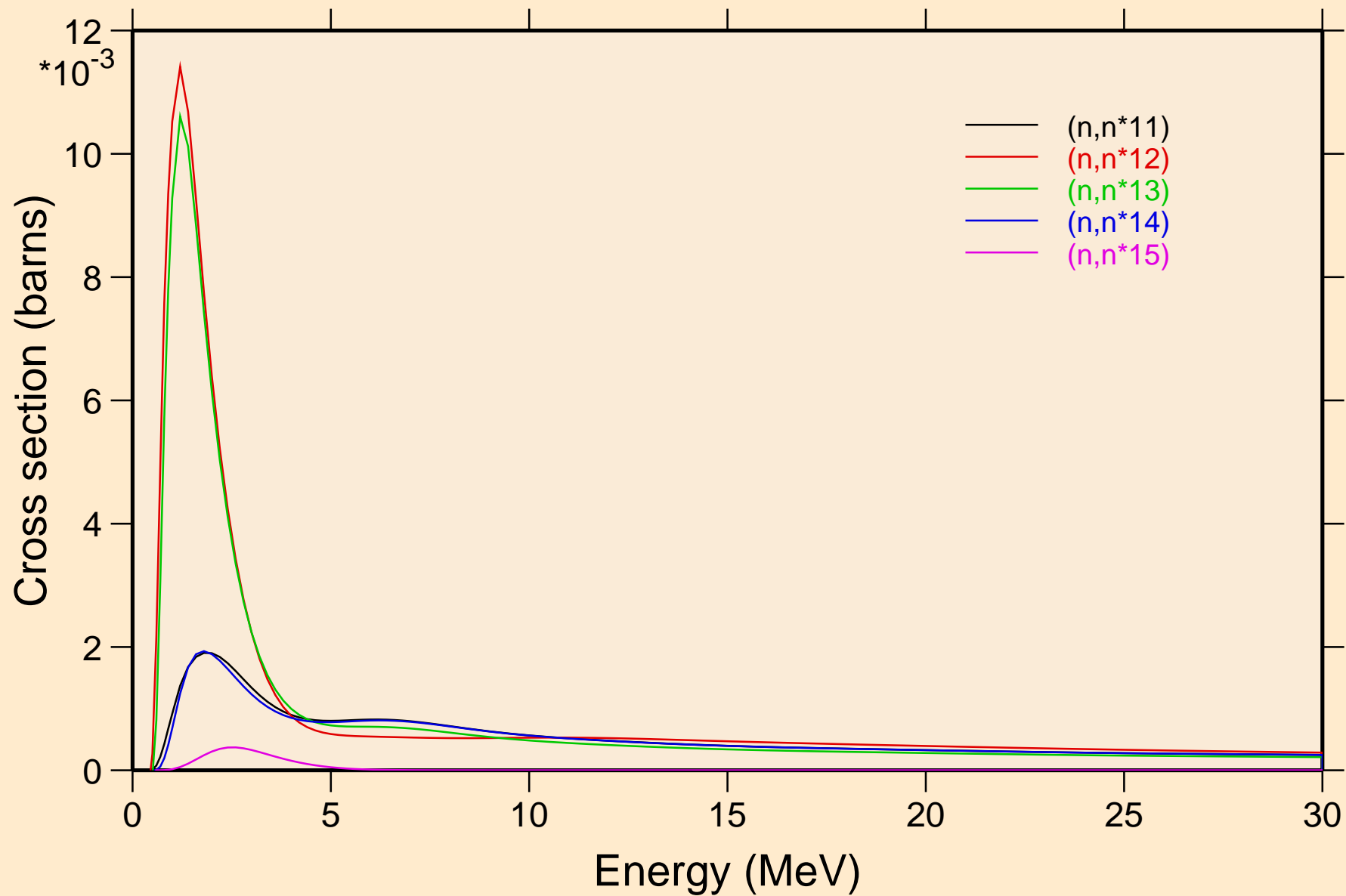




HF173 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Inelastic levels

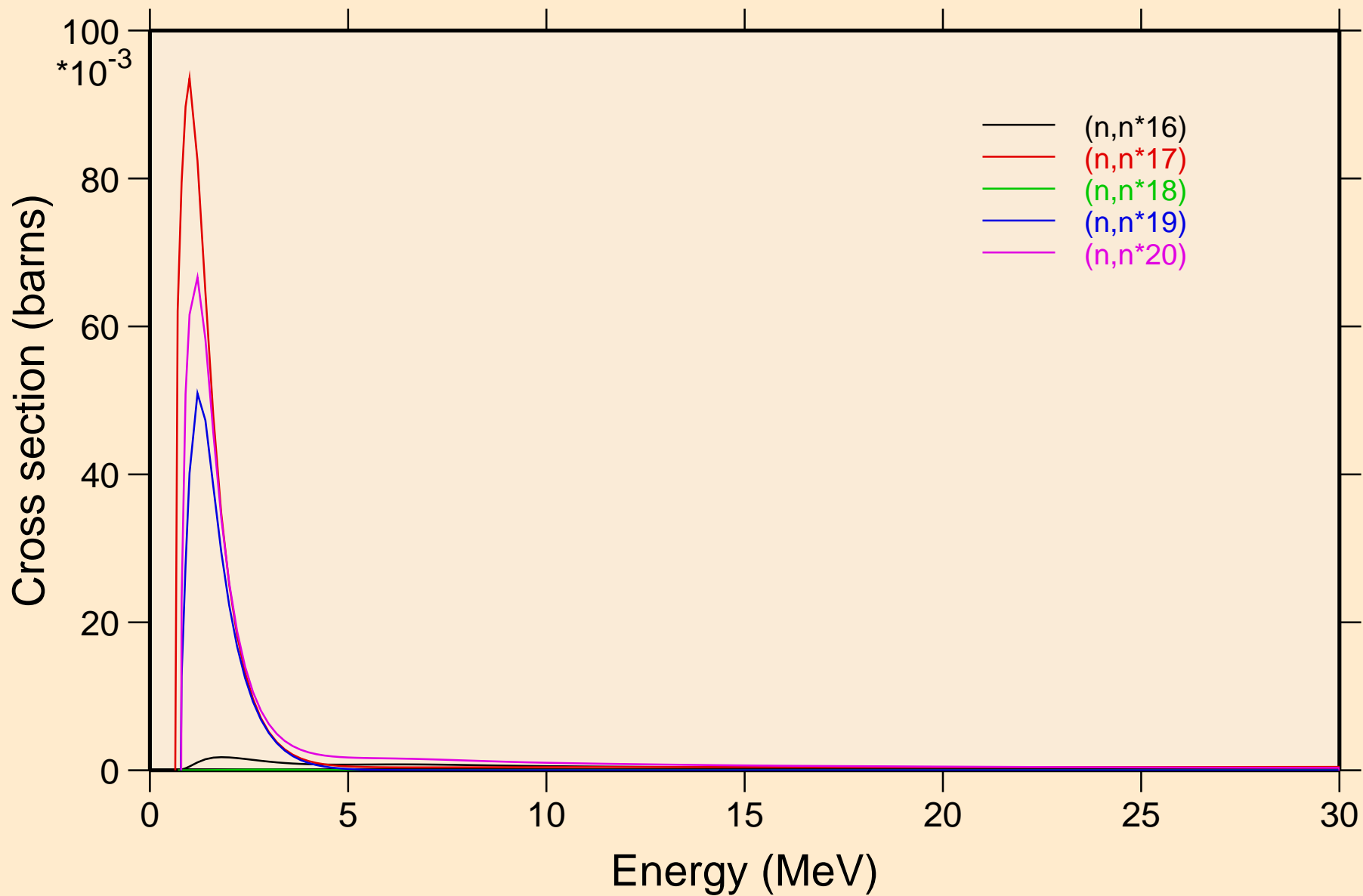


HF173 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Inelastic levels

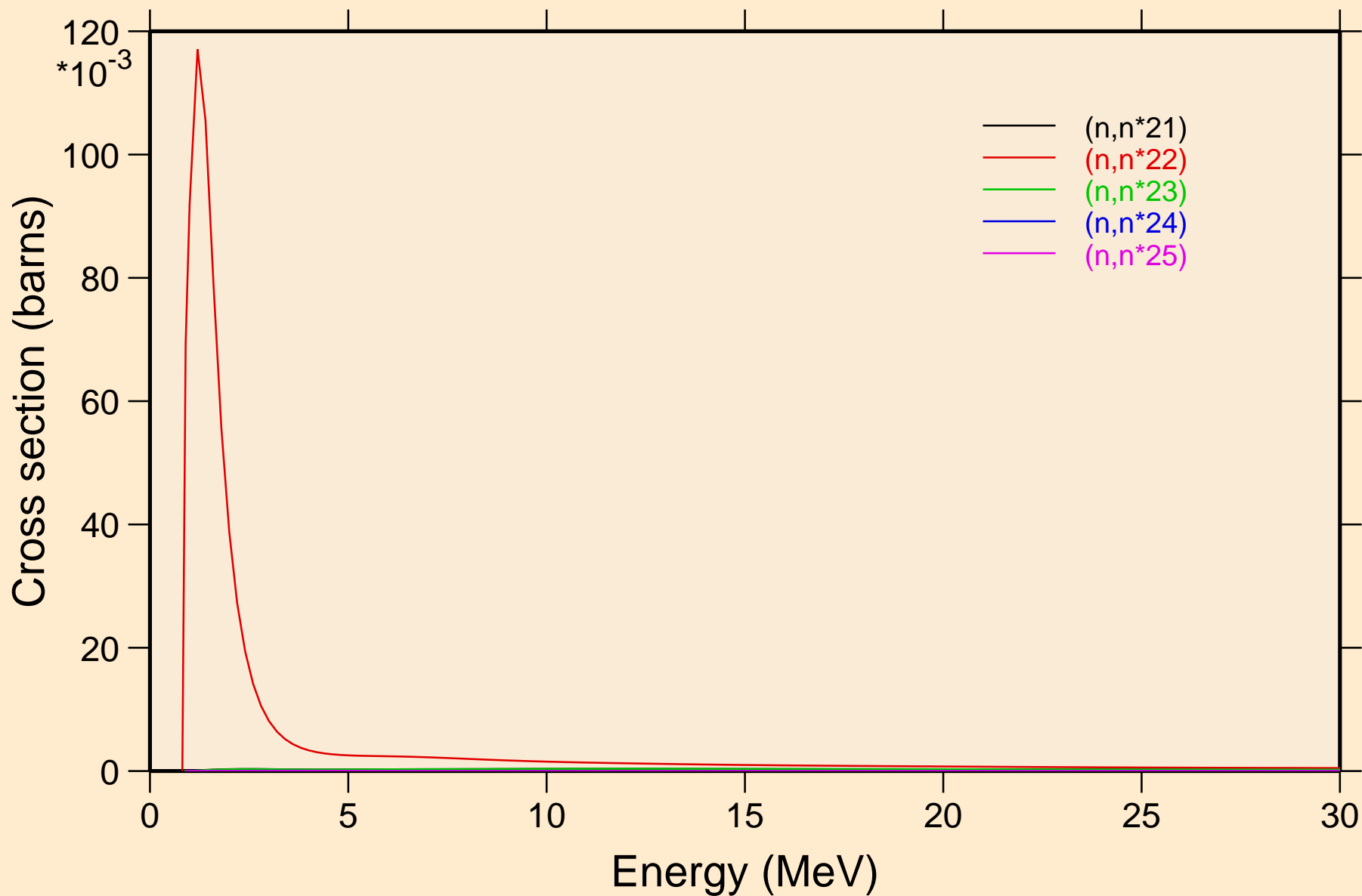


# HF173 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K

## Inelastic levels

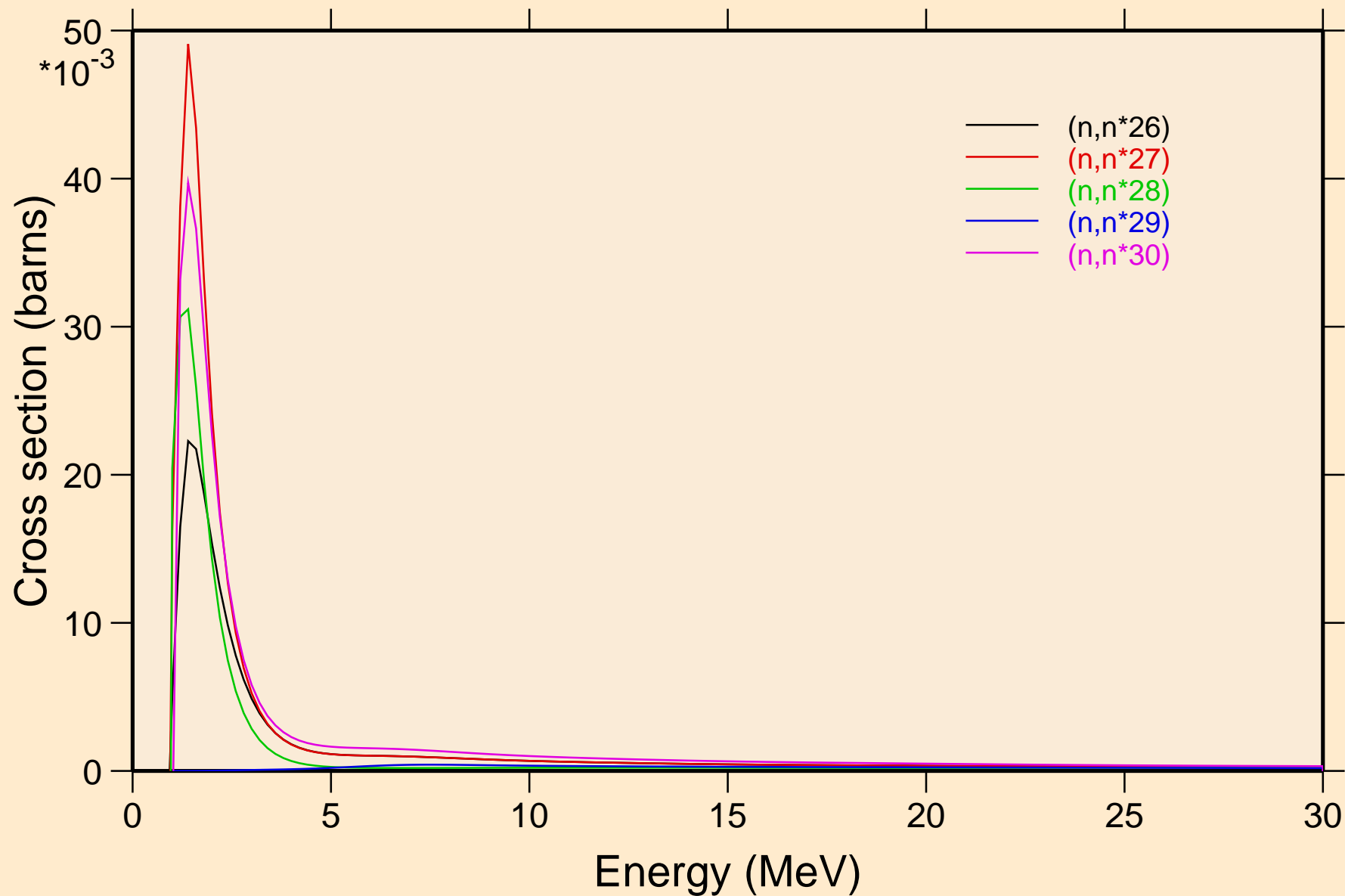


HF173 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Inelastic levels



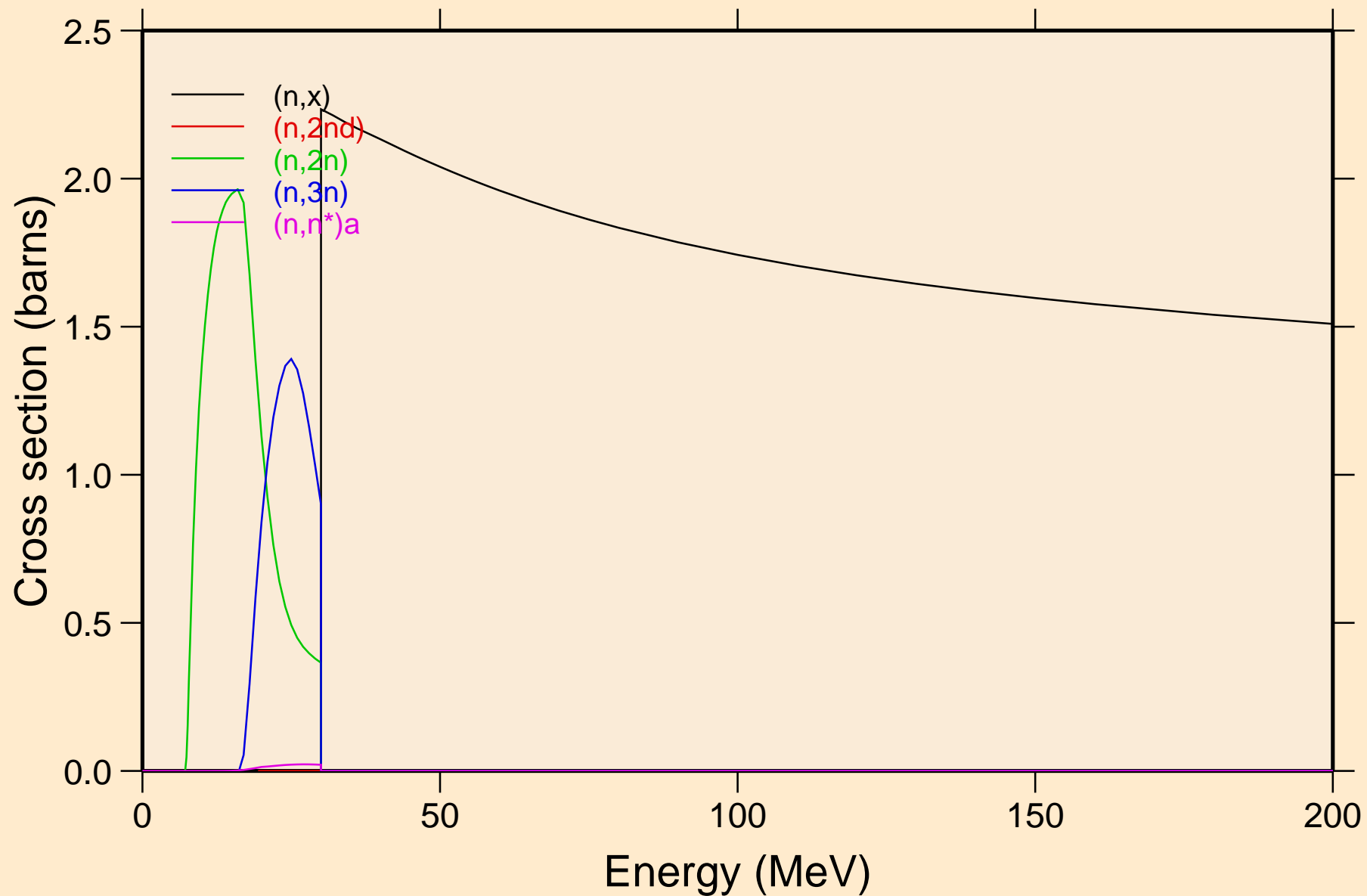
# HF173 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K

## Inelastic levels



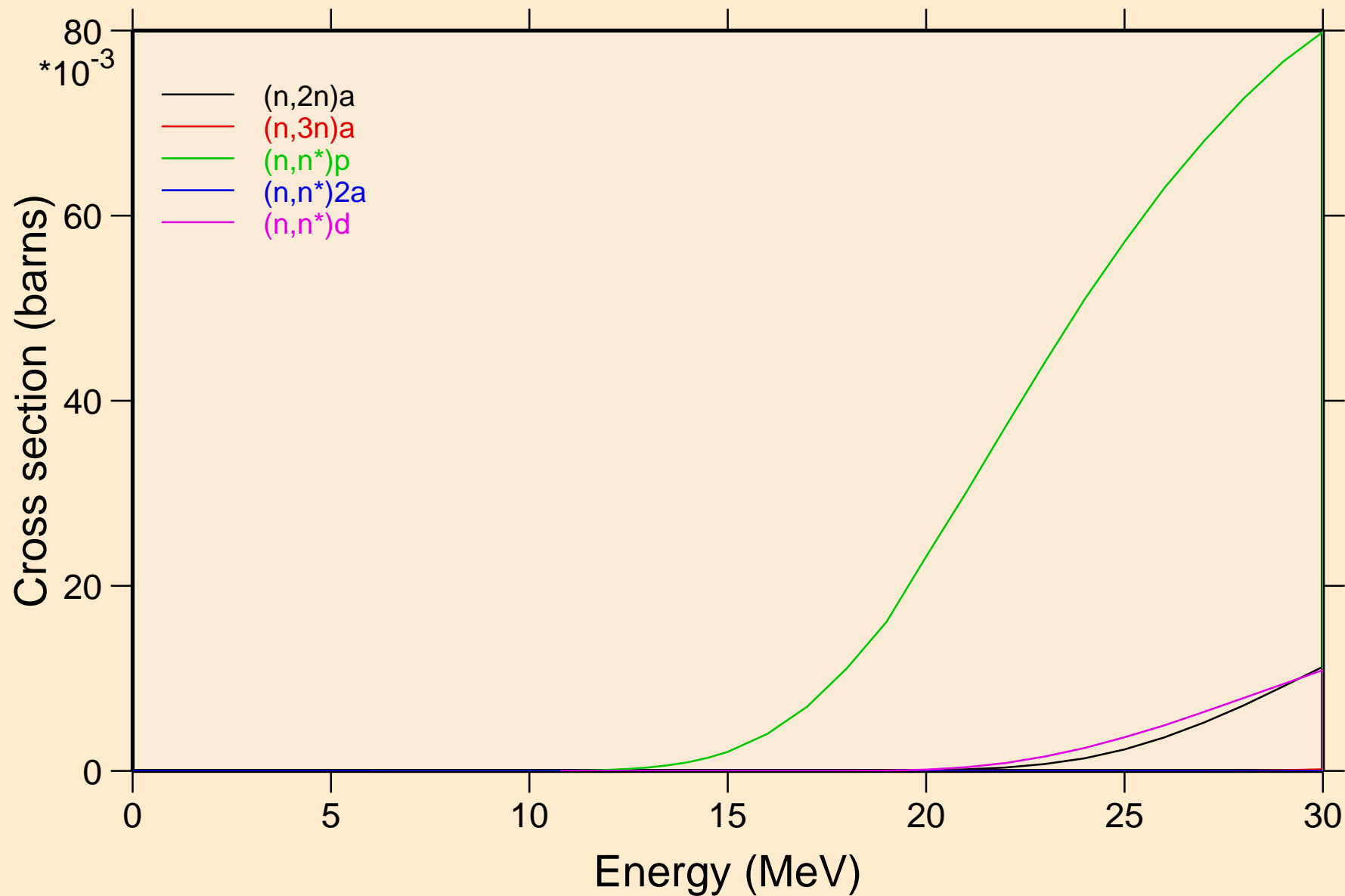
# HF173 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K

## Threshold reactions



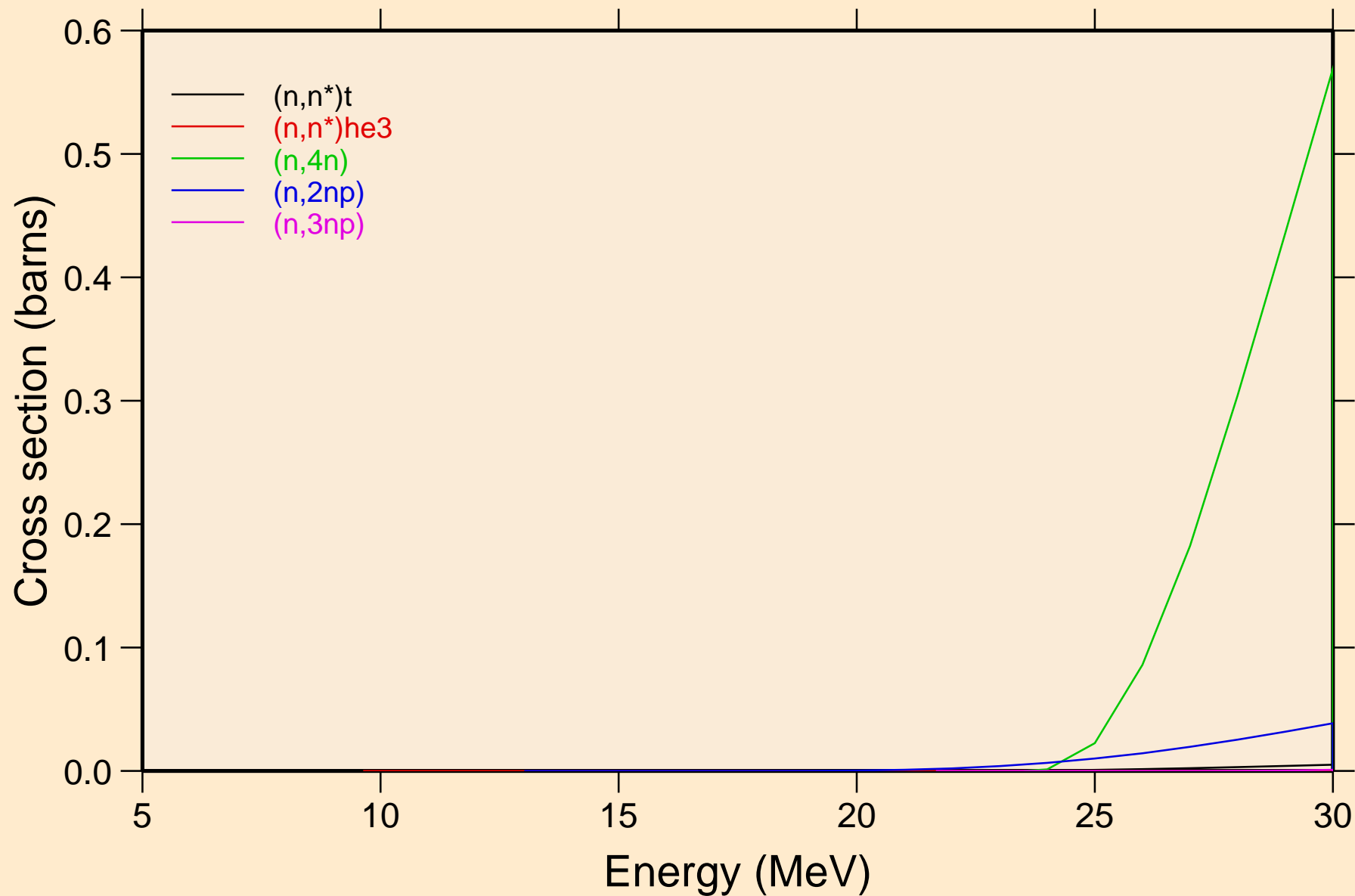
# HF173 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K

## Threshold reactions



# HF173 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K

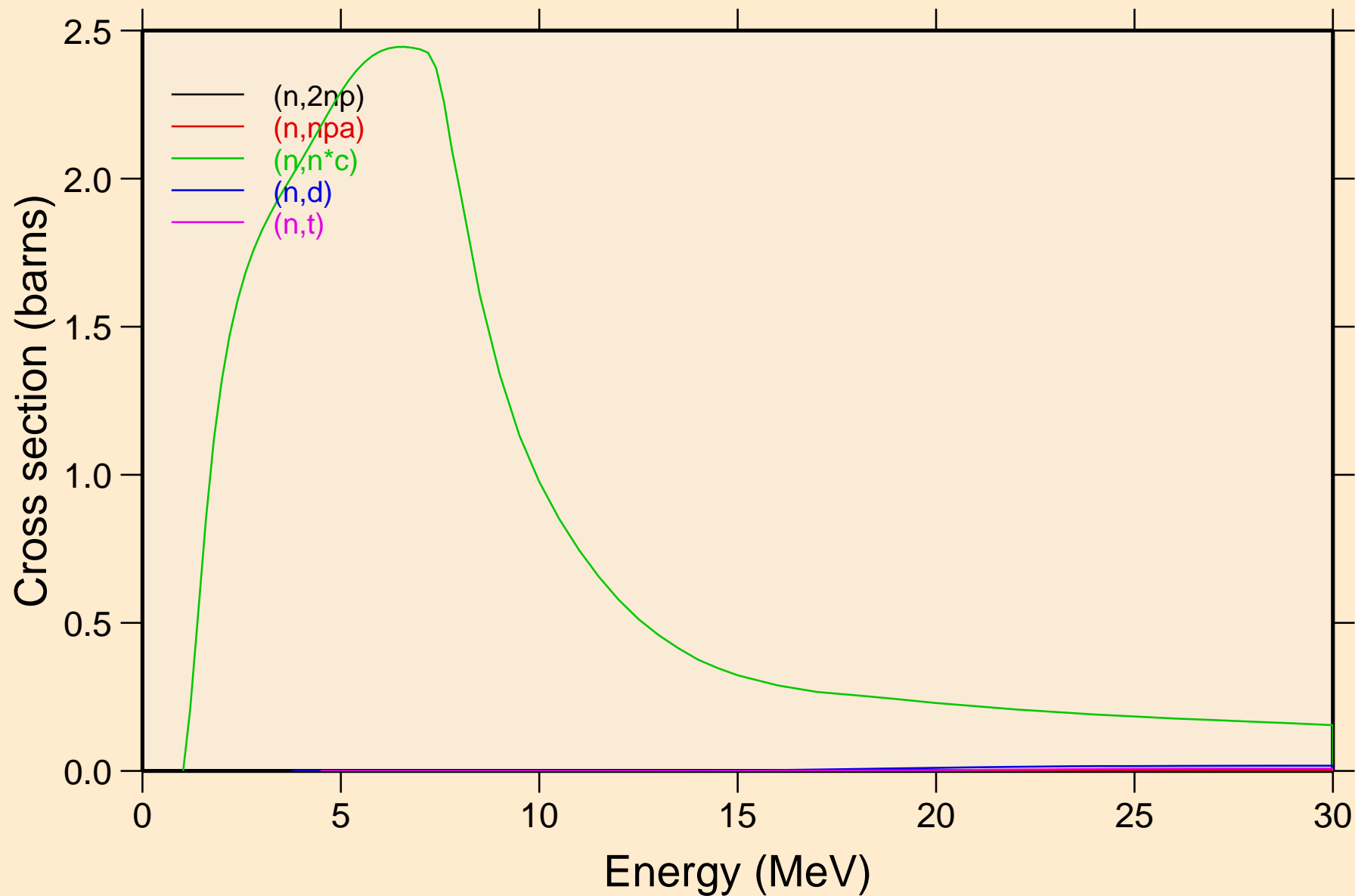
## Threshold reactions





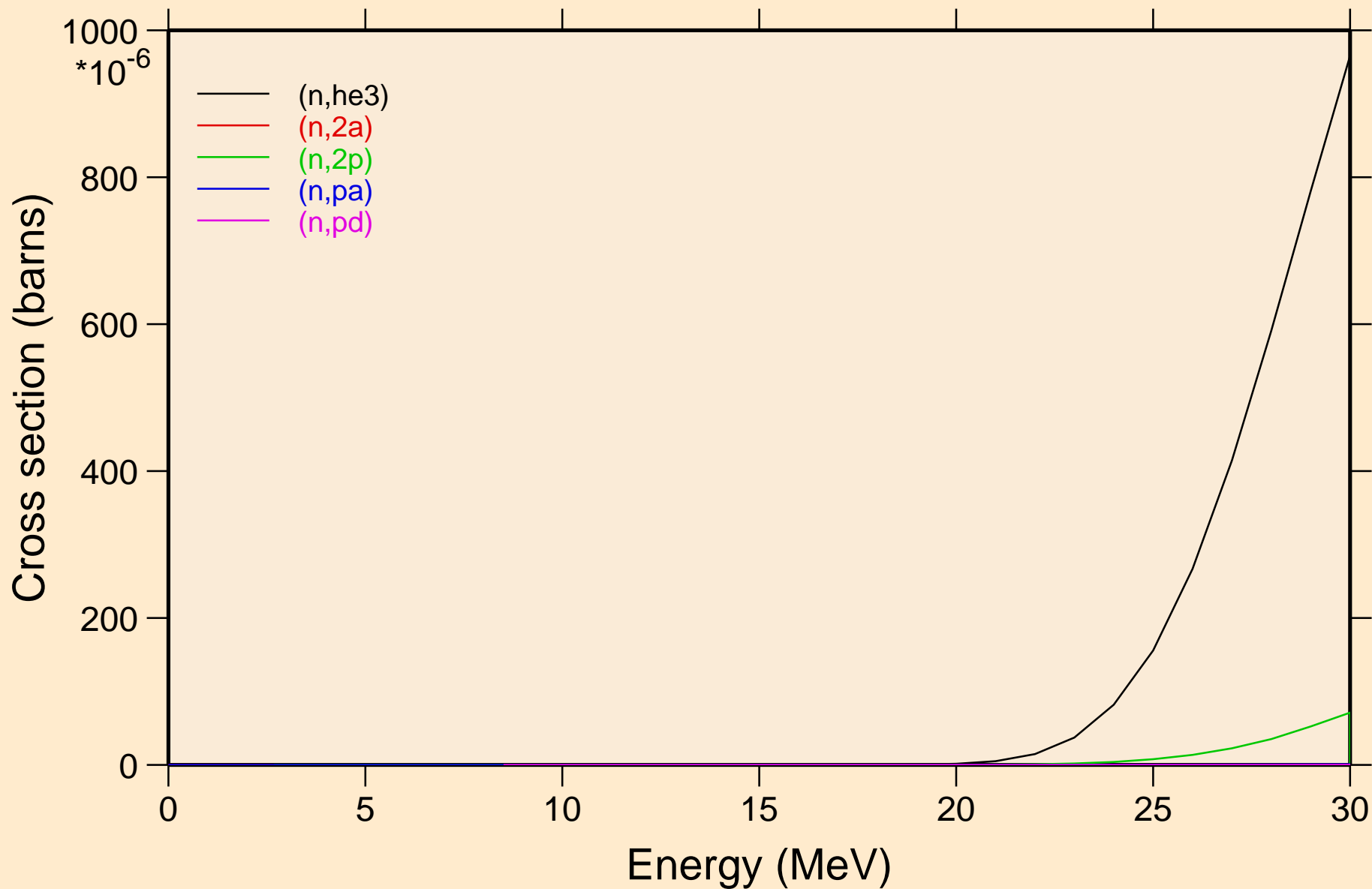
# HF173 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K

## Threshold reactions

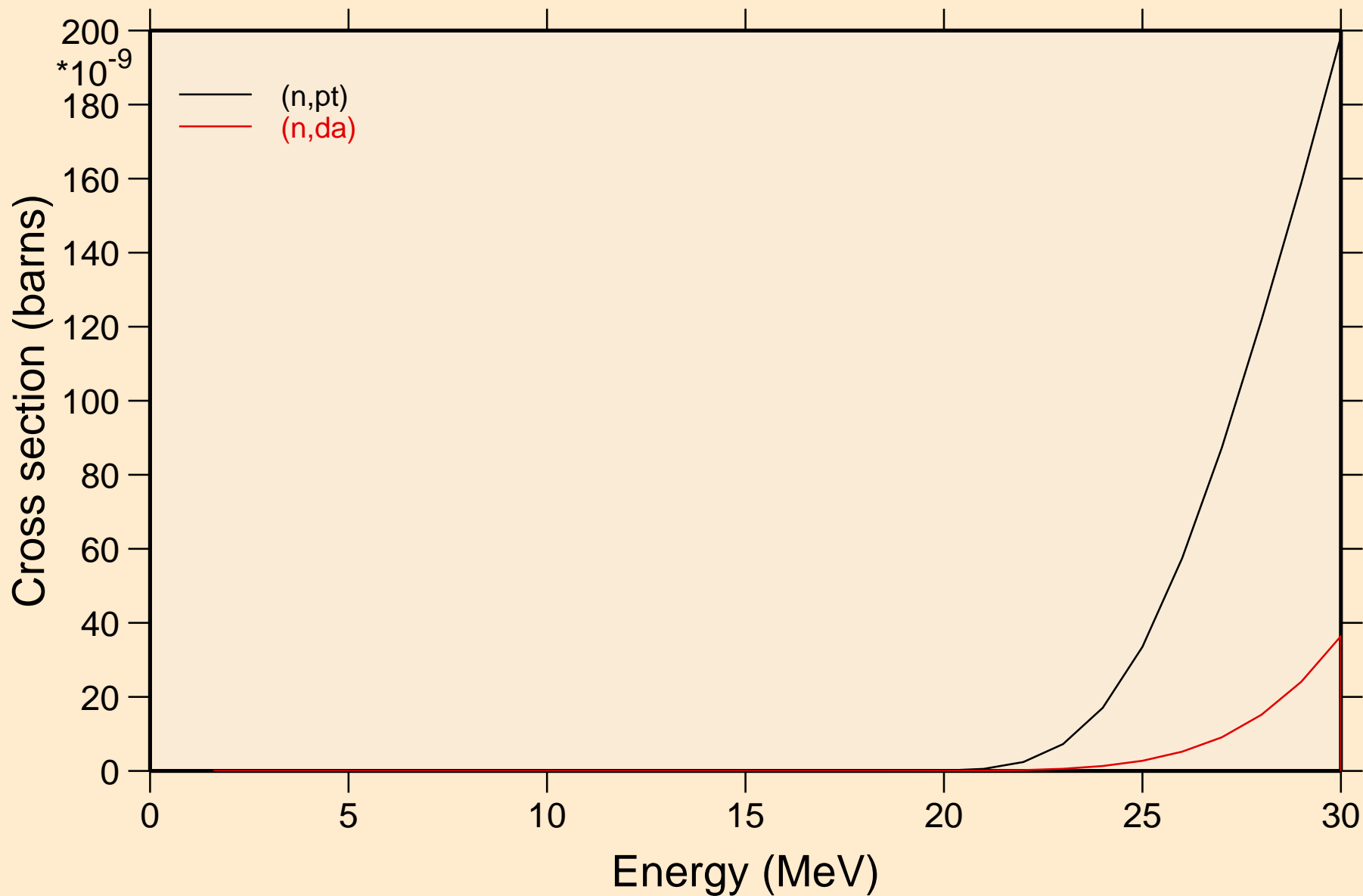


# HF173 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K

## Threshold reactions

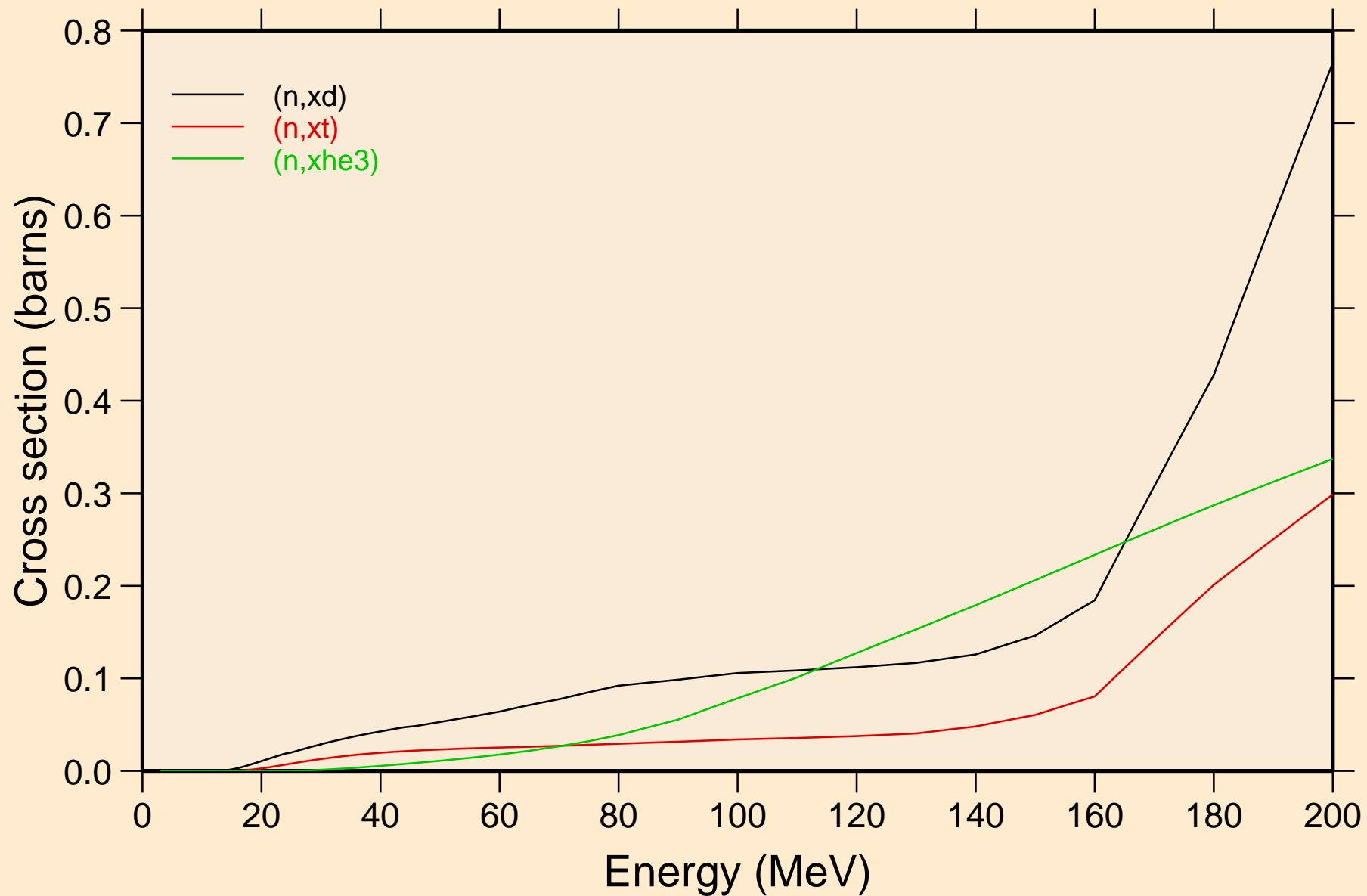


HF173 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Threshold reactions

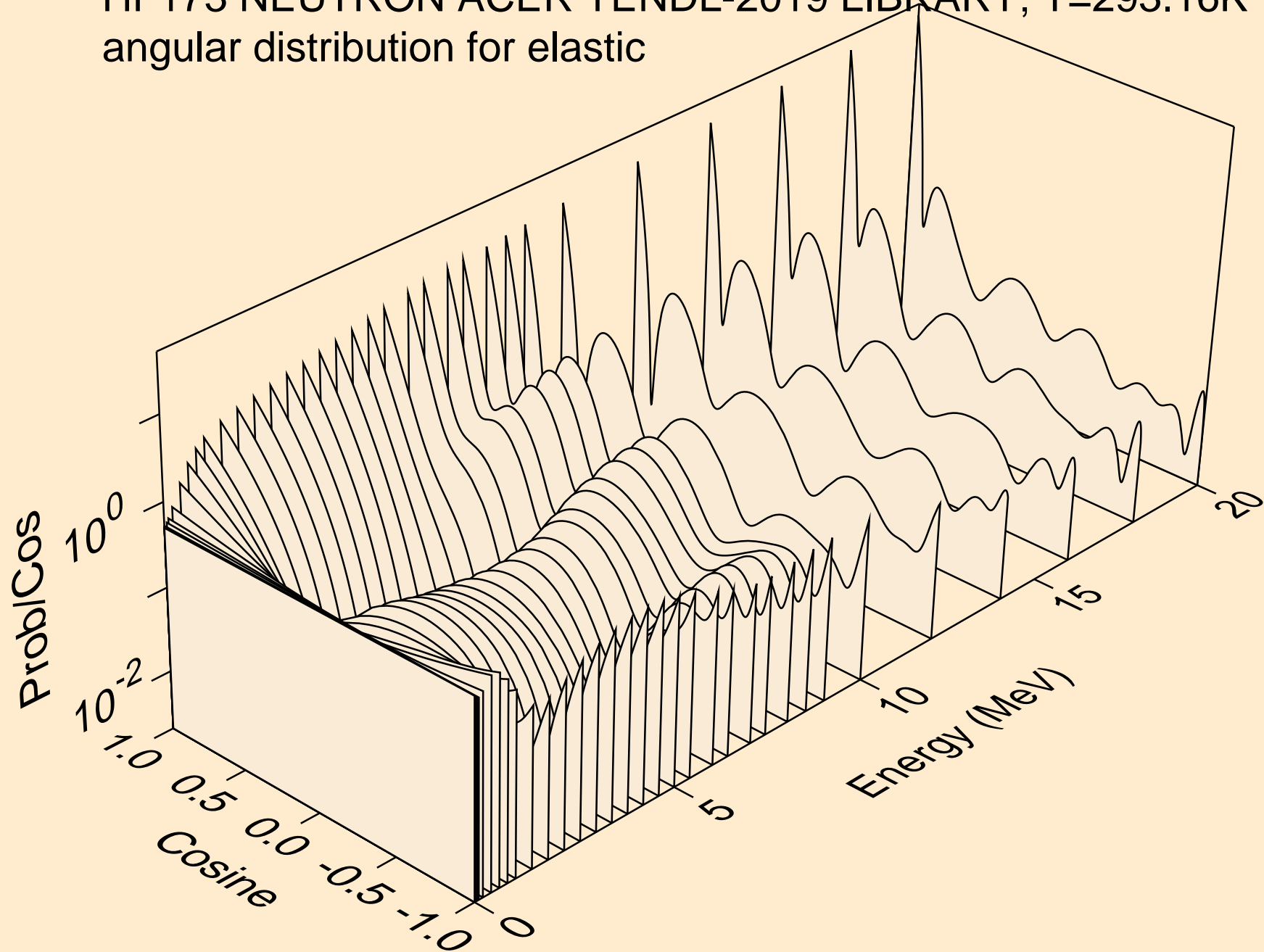


# HF173 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K

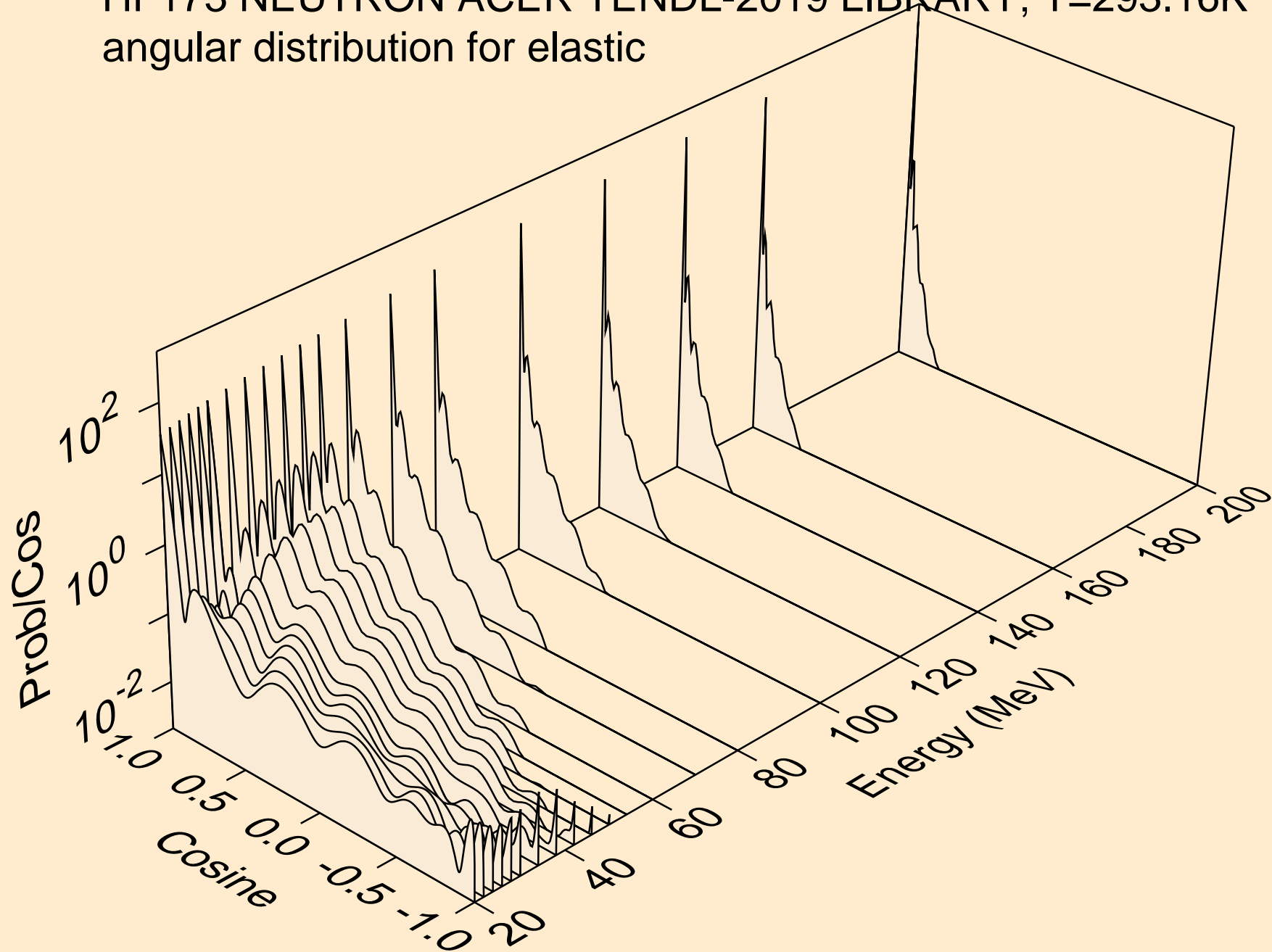
## Threshold reactions



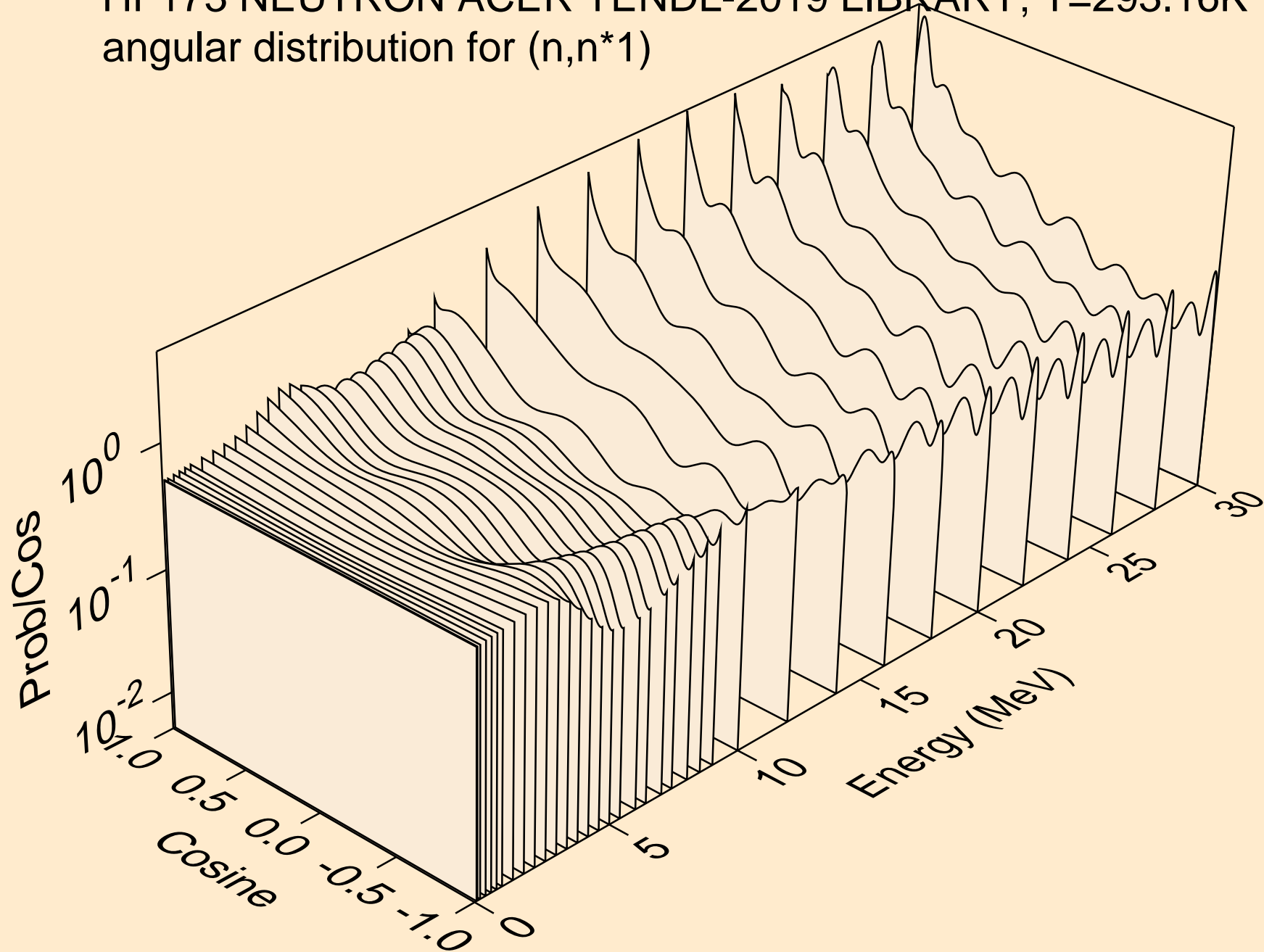
HF173 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for elastic



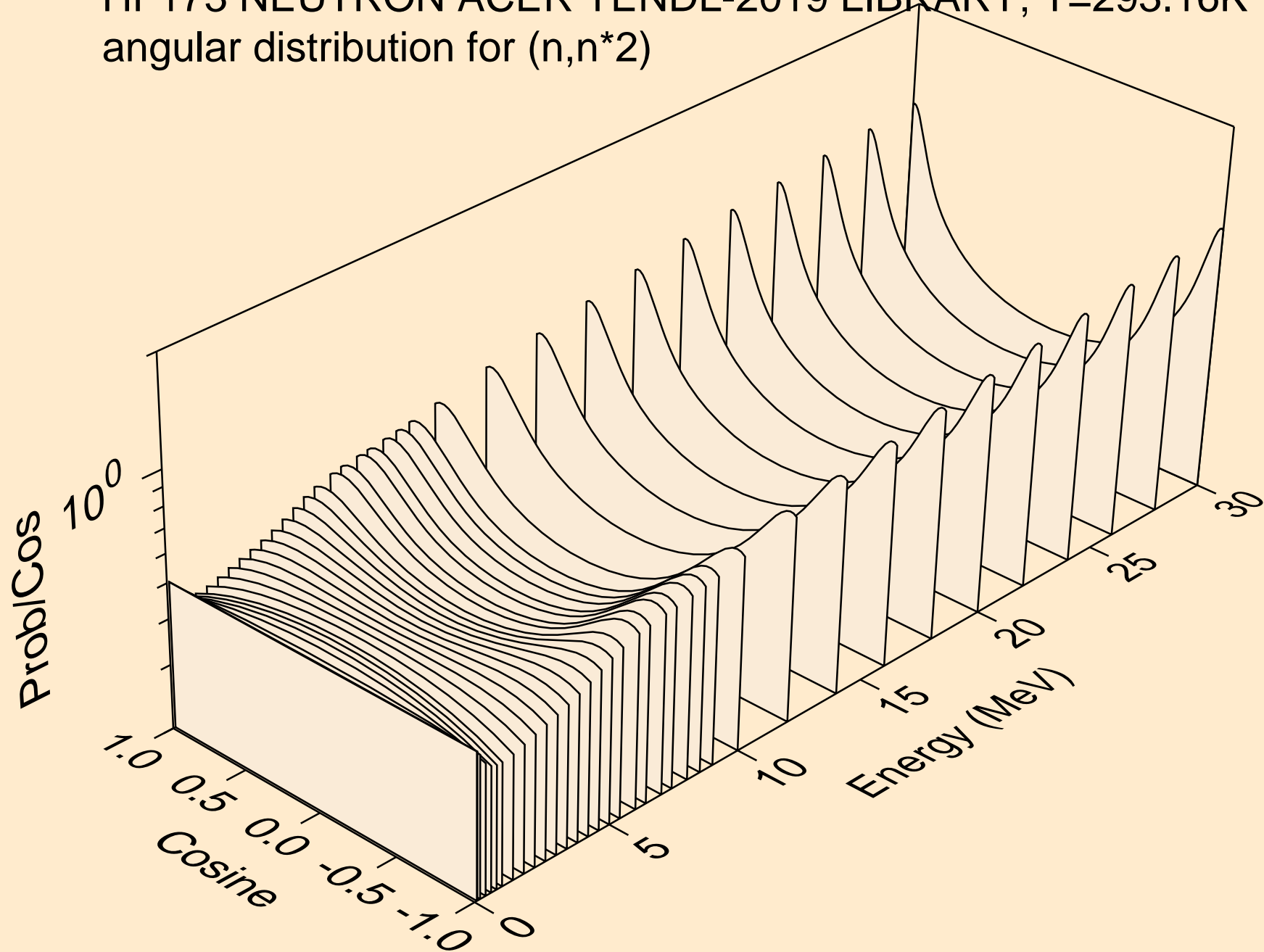
HF173 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for elastic



HF173 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*1)

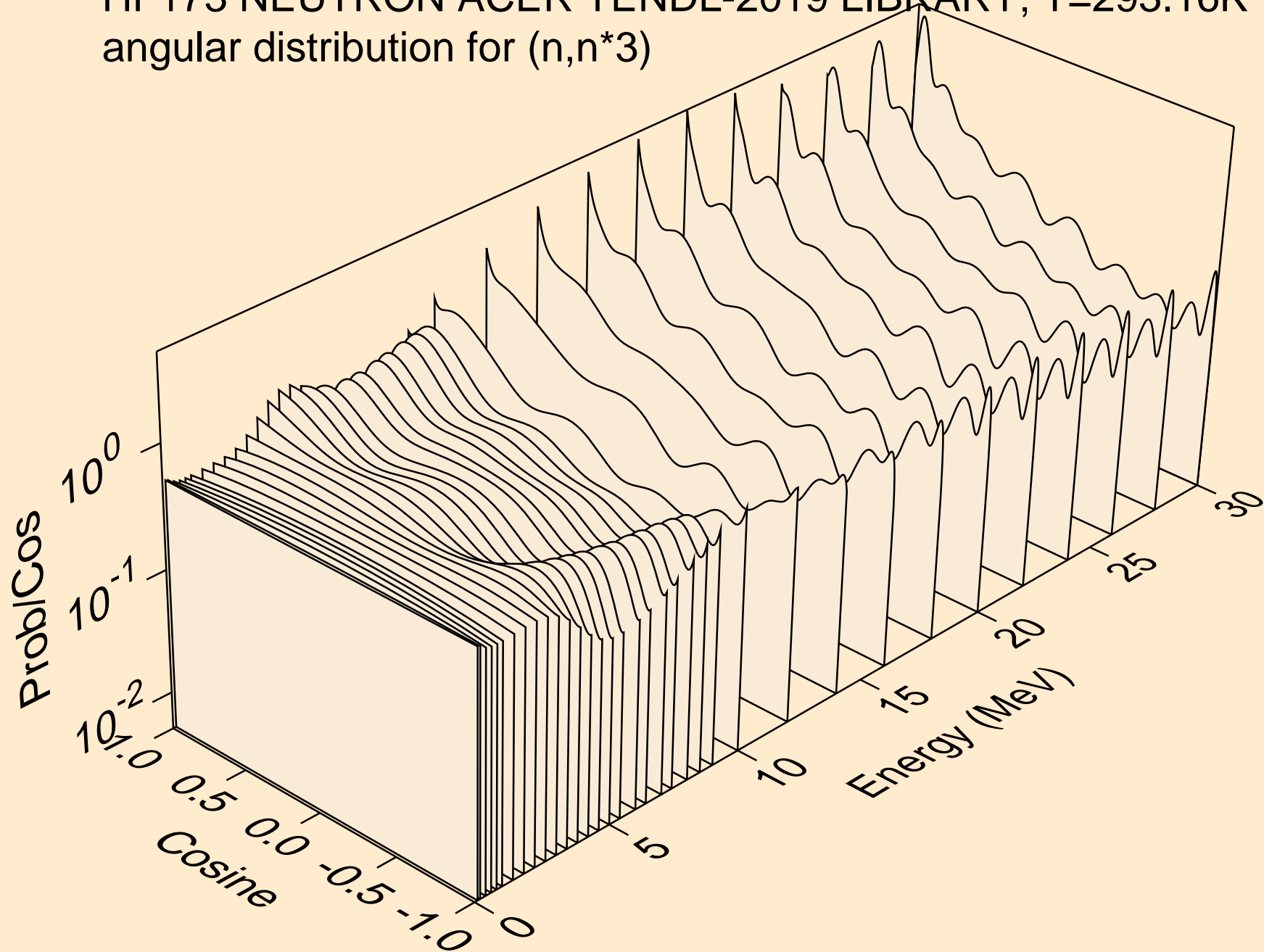


HF173 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*2)

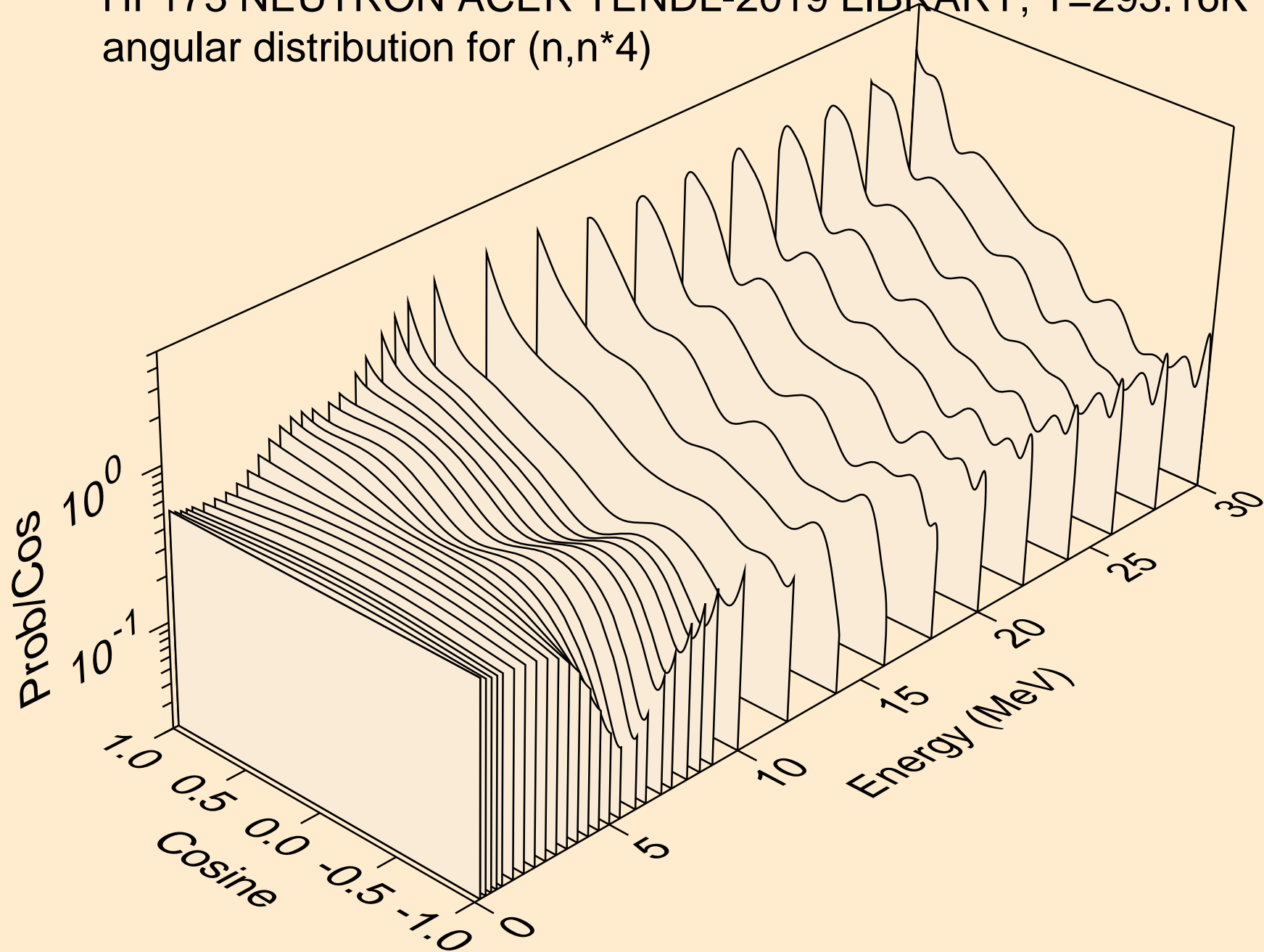




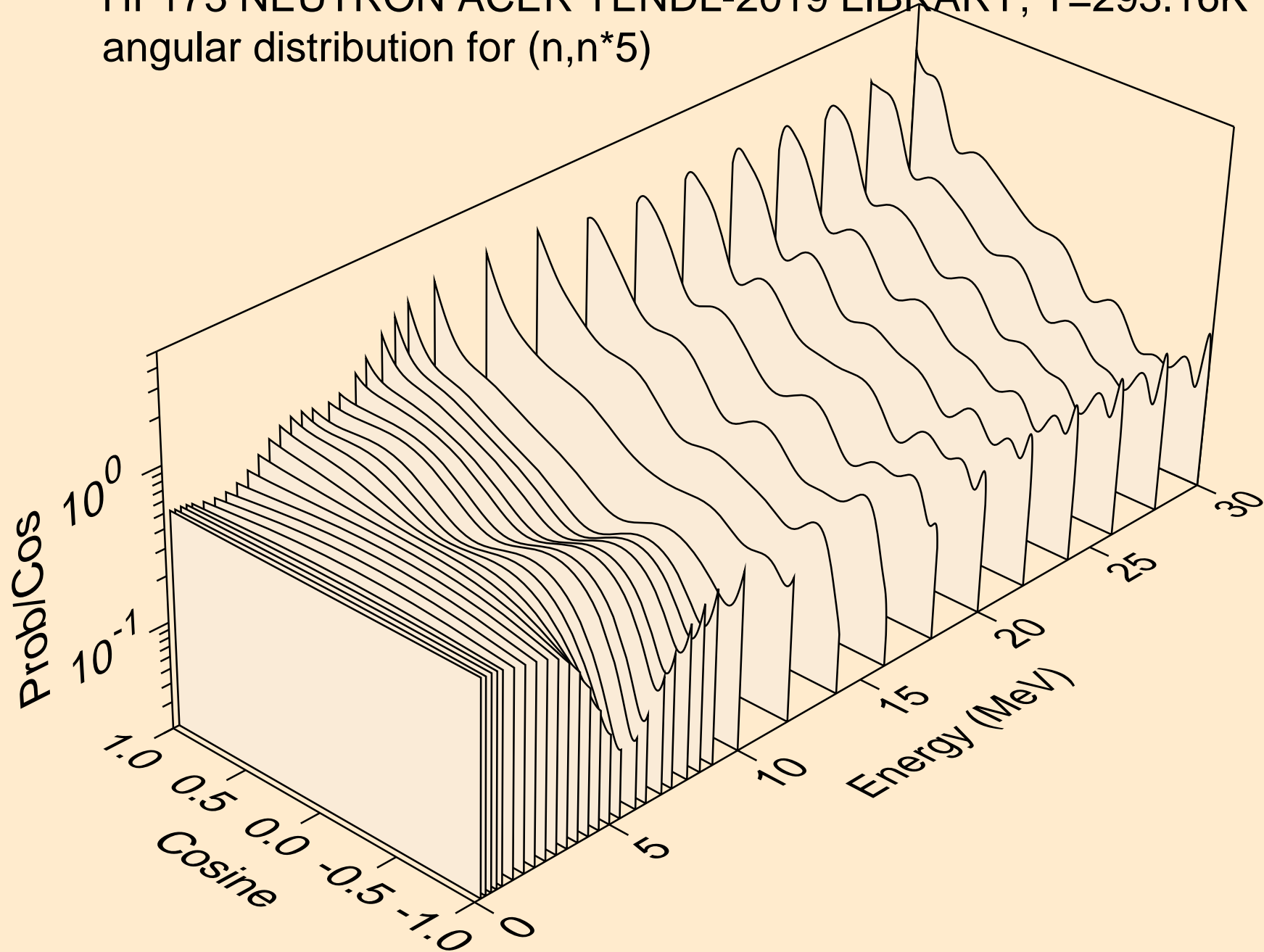
HF173 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*3)



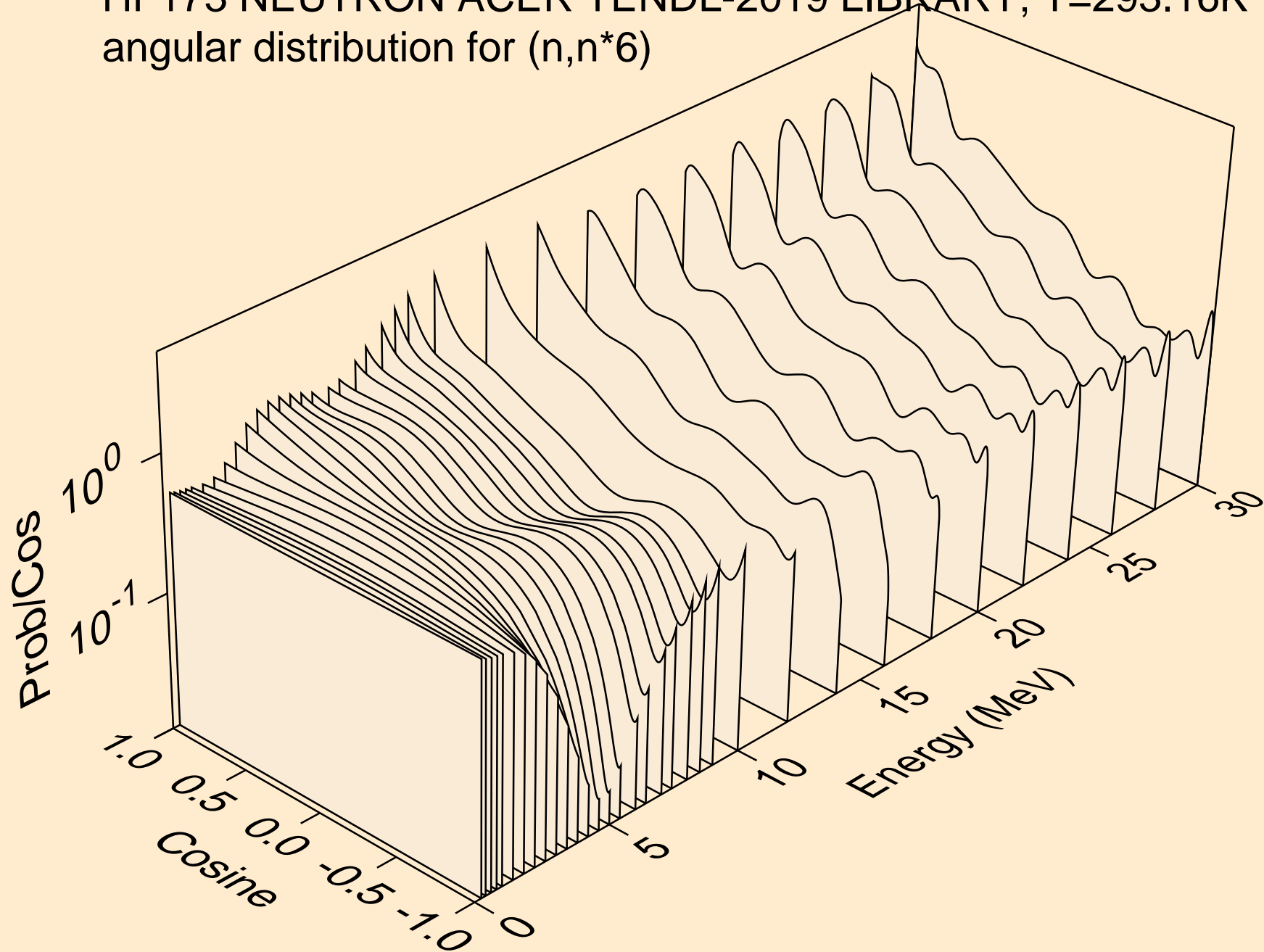
HF173 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*4)



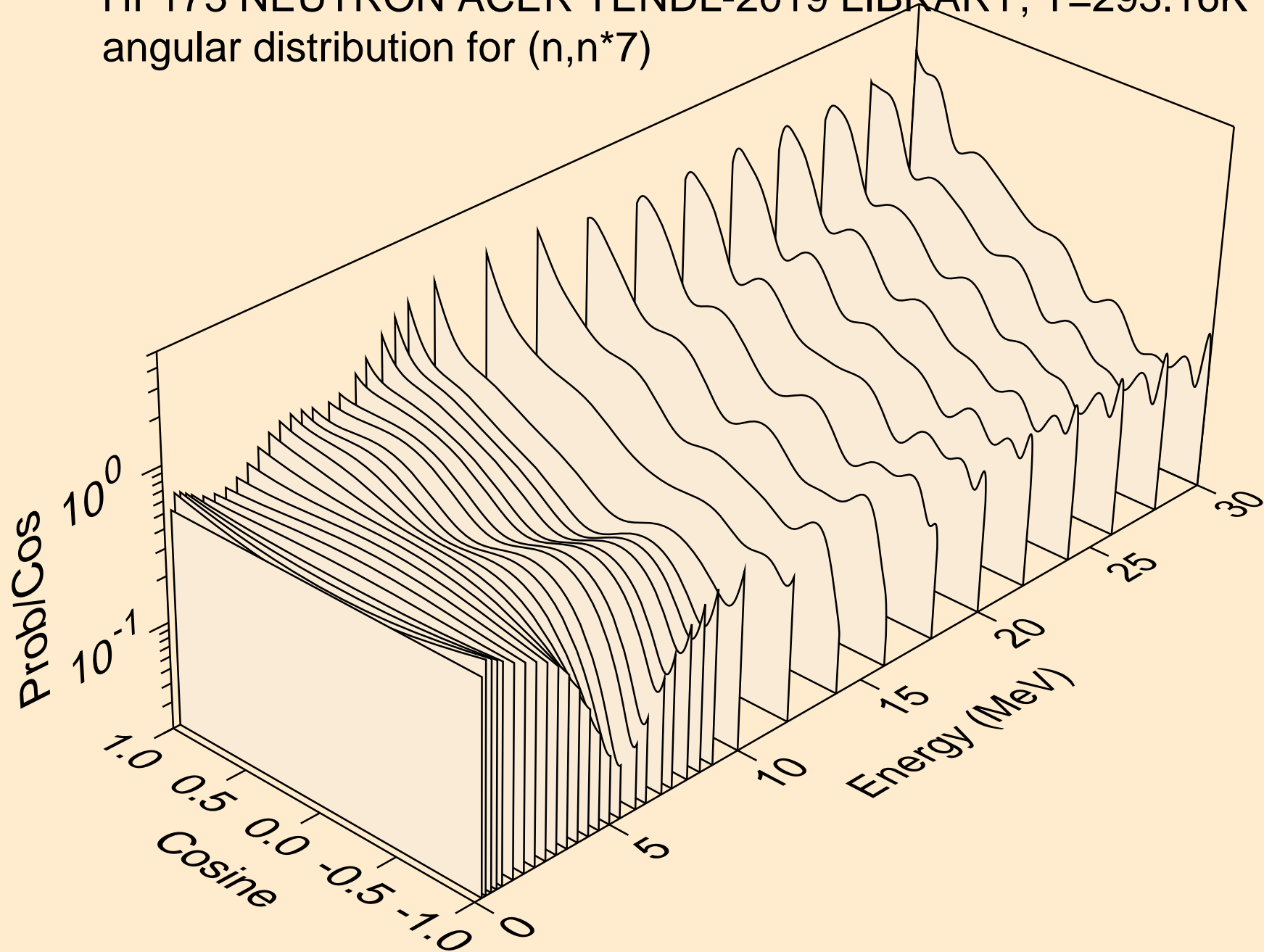
HF173 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*5)



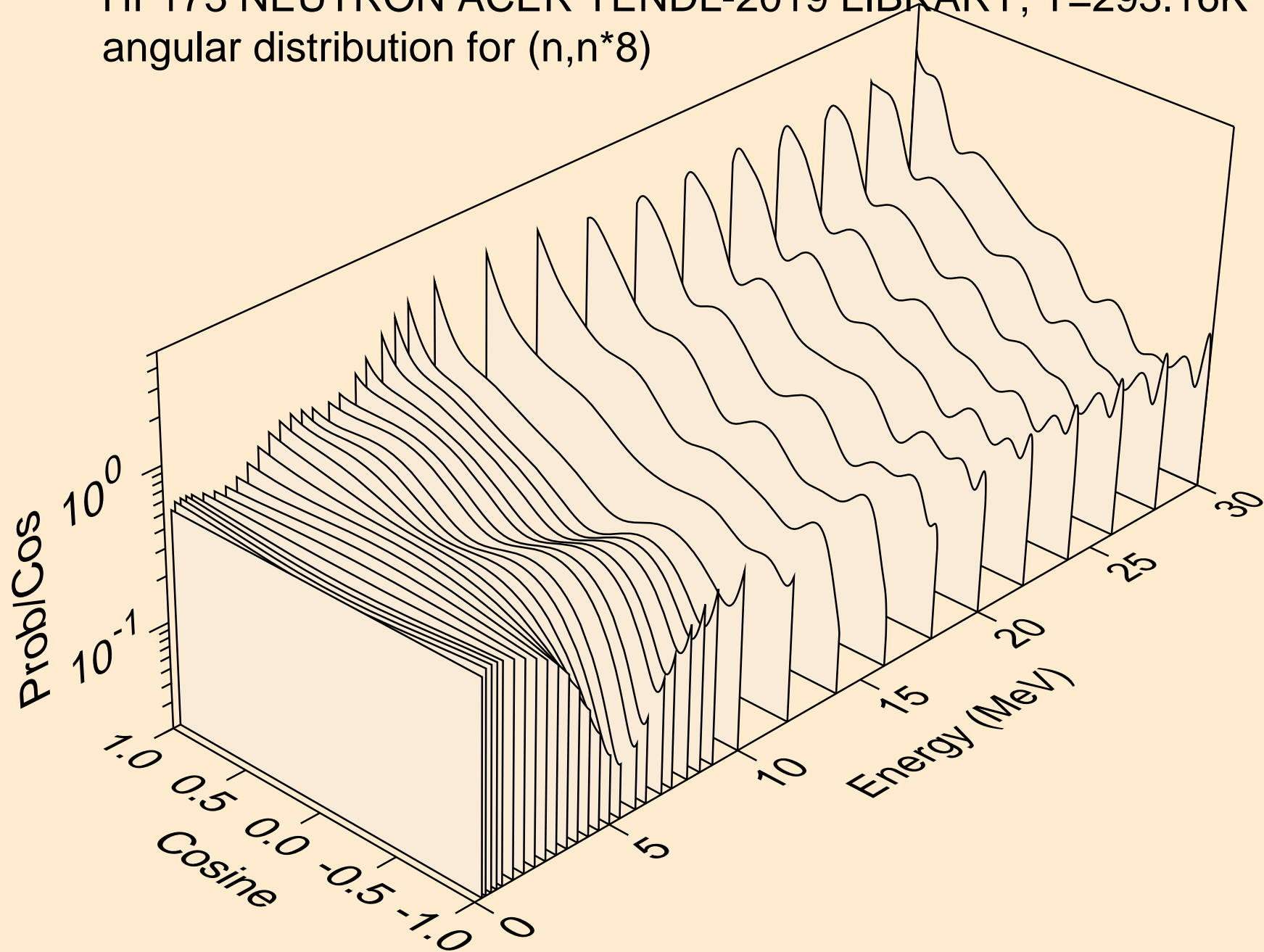
HF173 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*6)



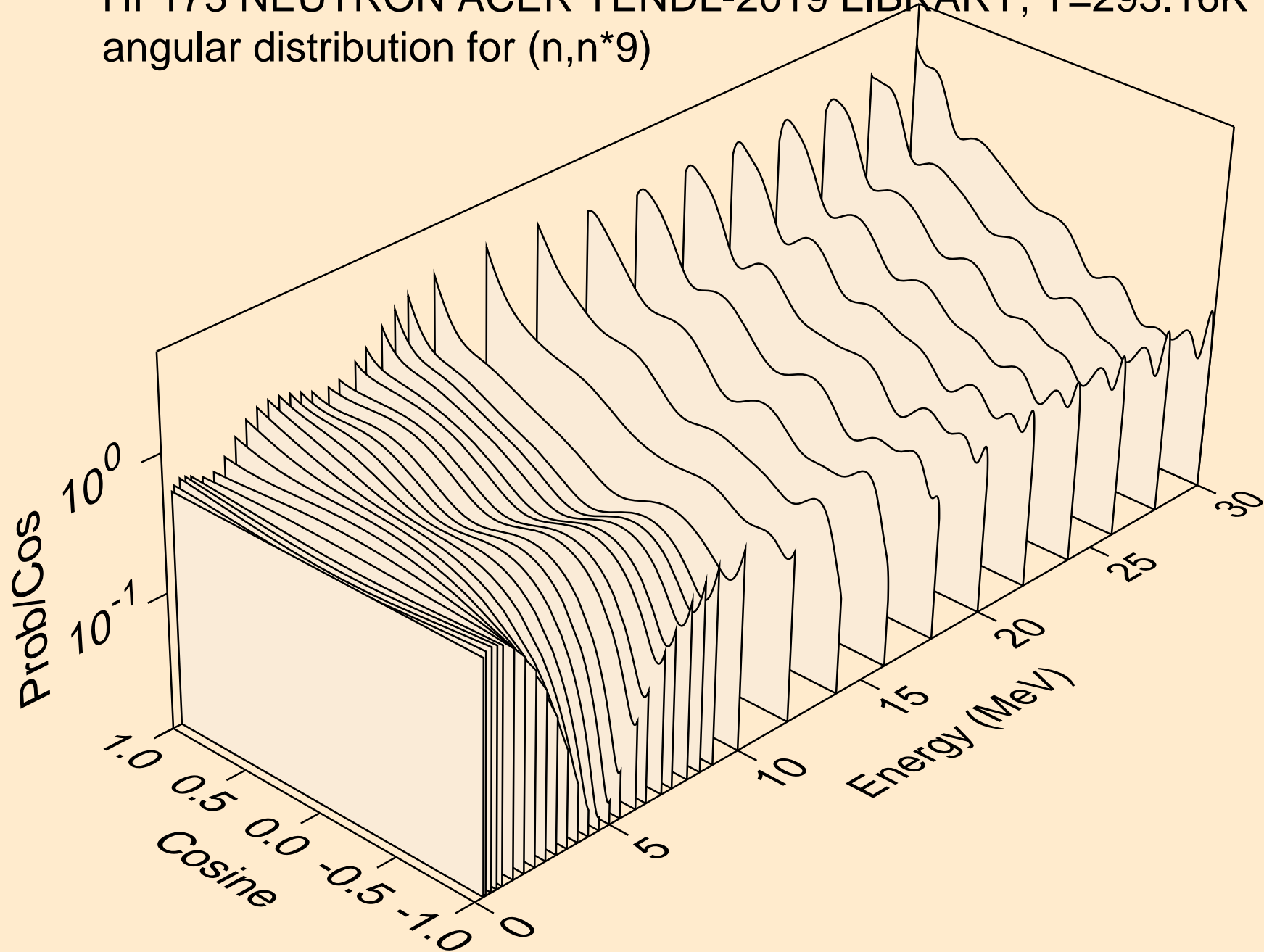
HF173 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*7)



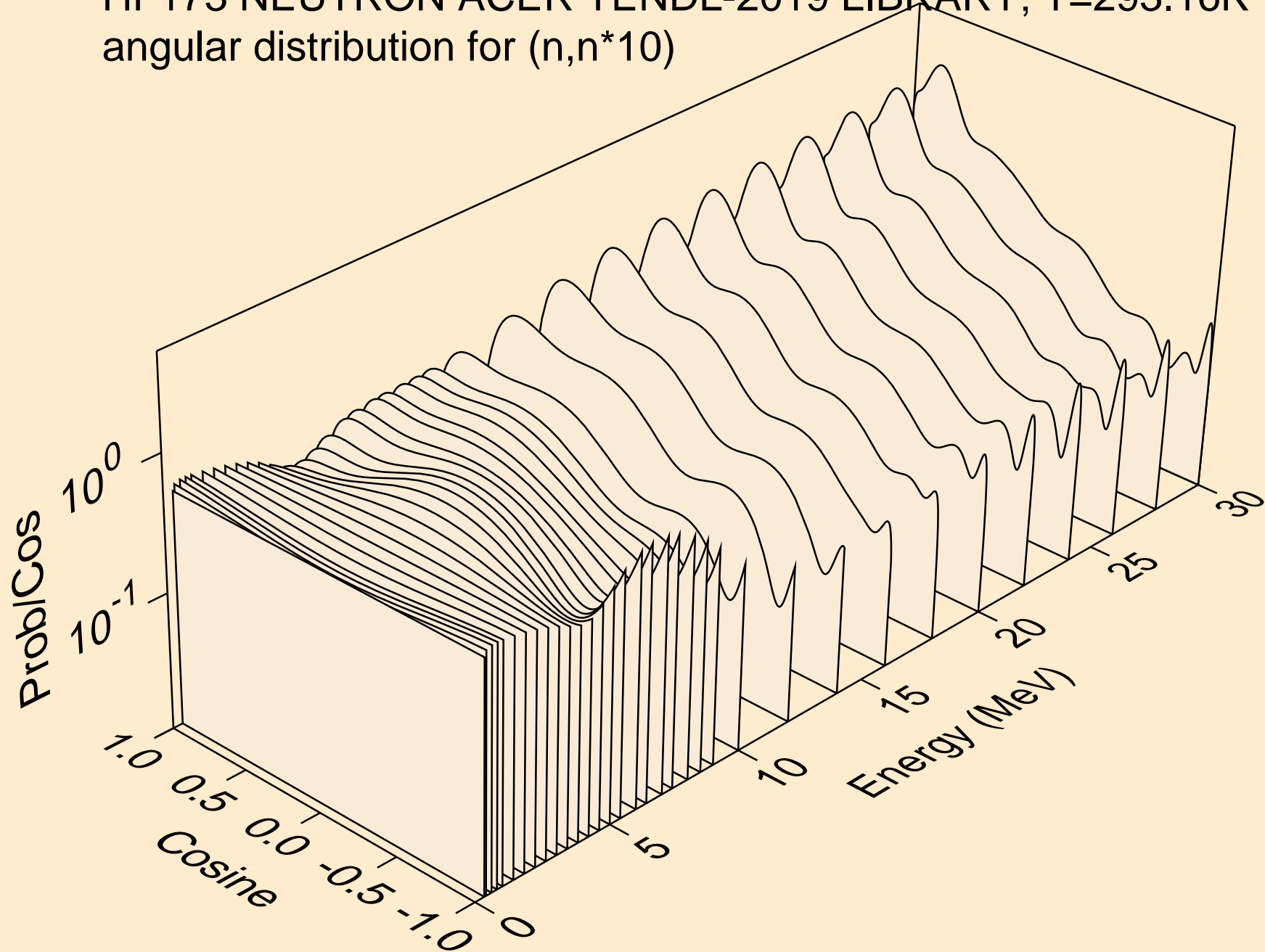
HF173 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*8)



HF173 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*9)

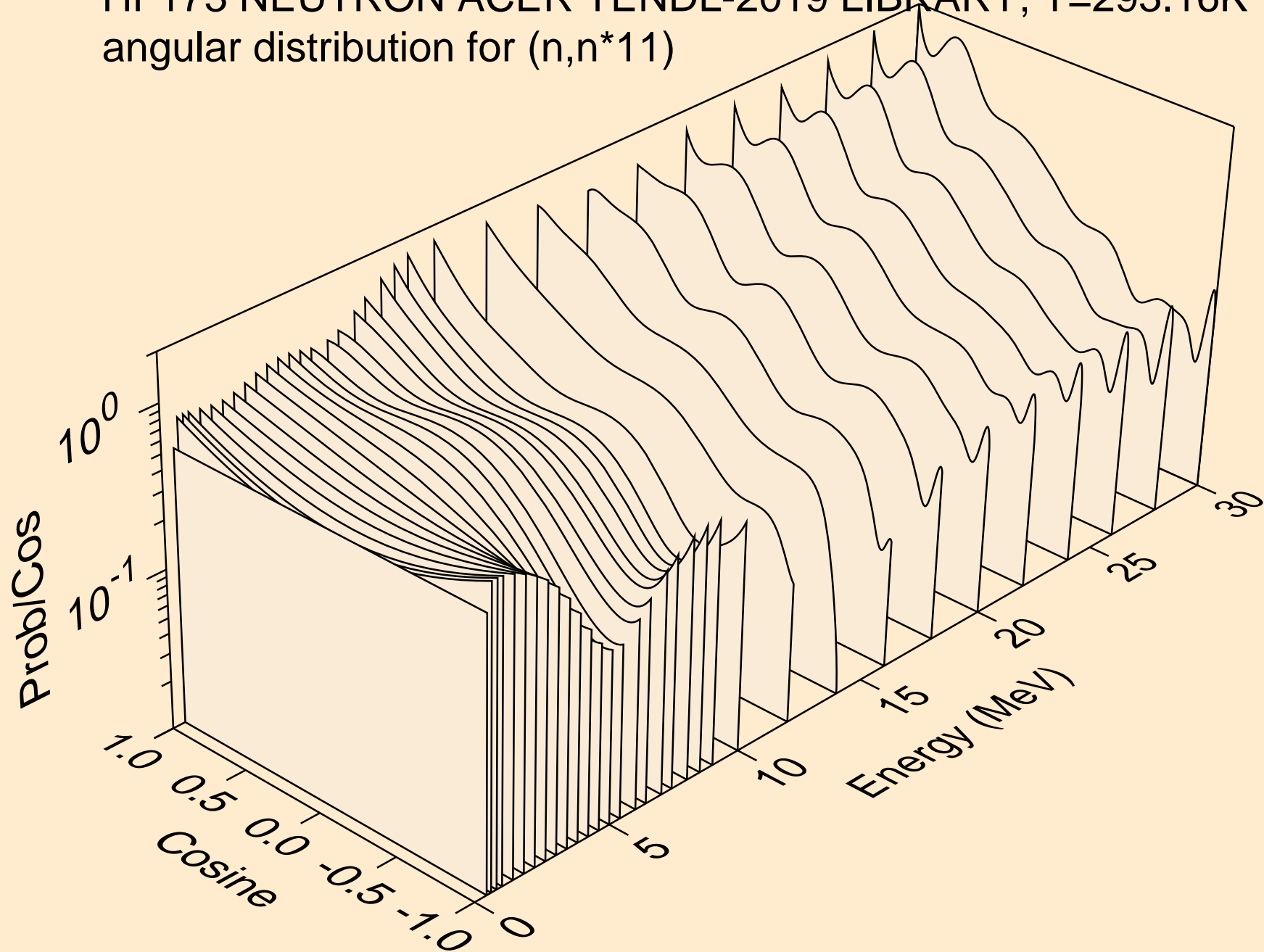


HF173 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*10)

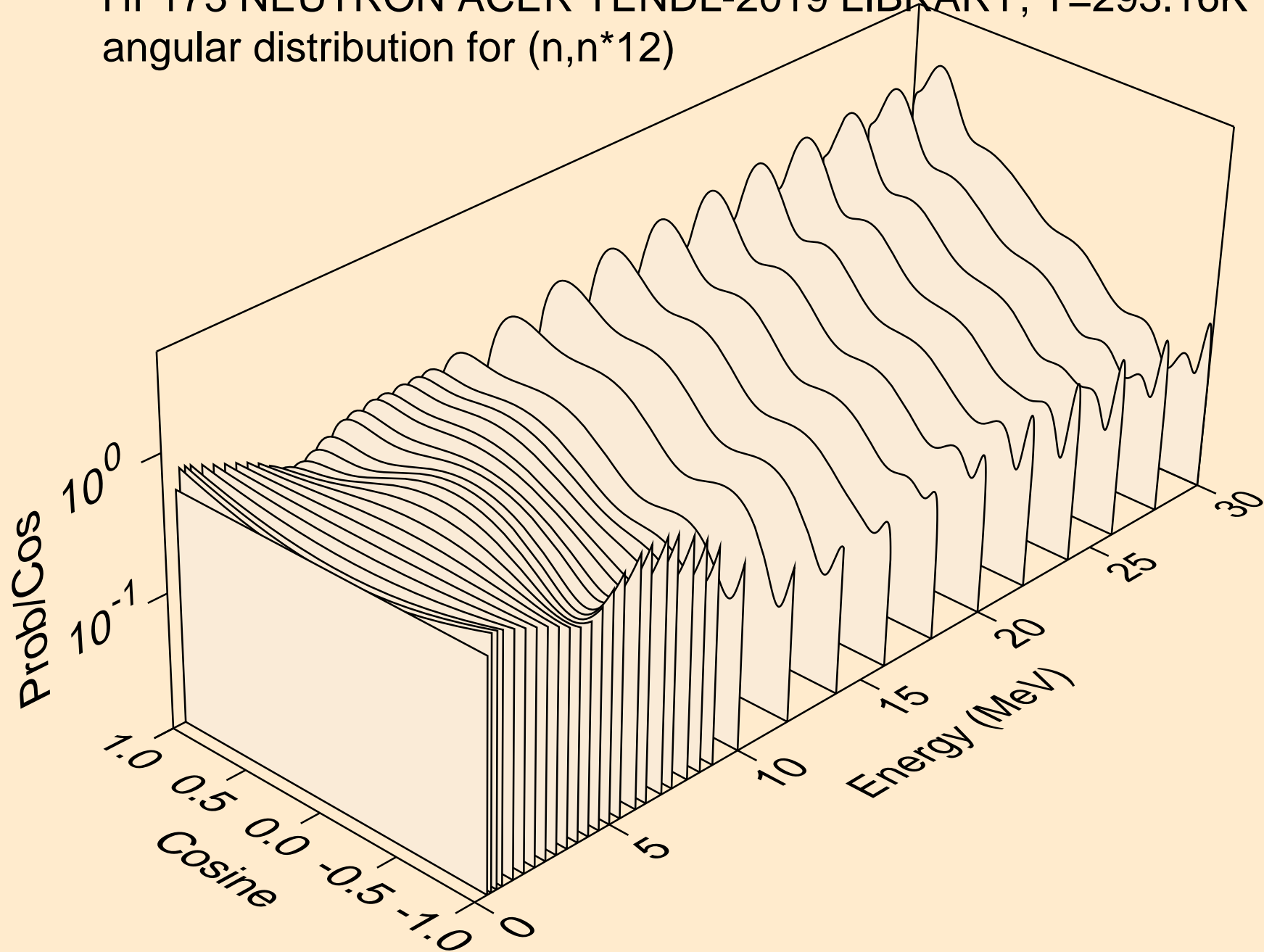




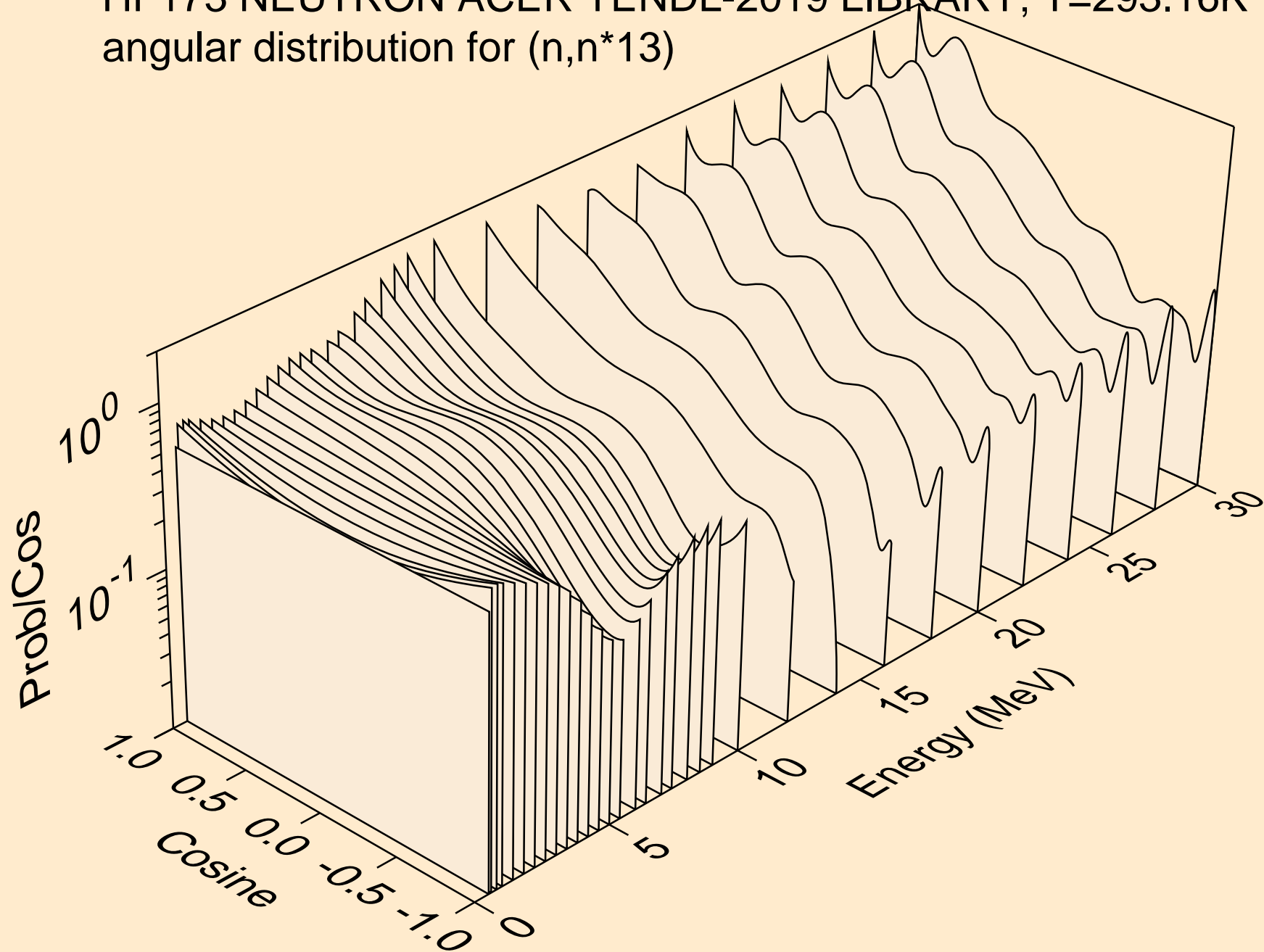
HF173 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*11)



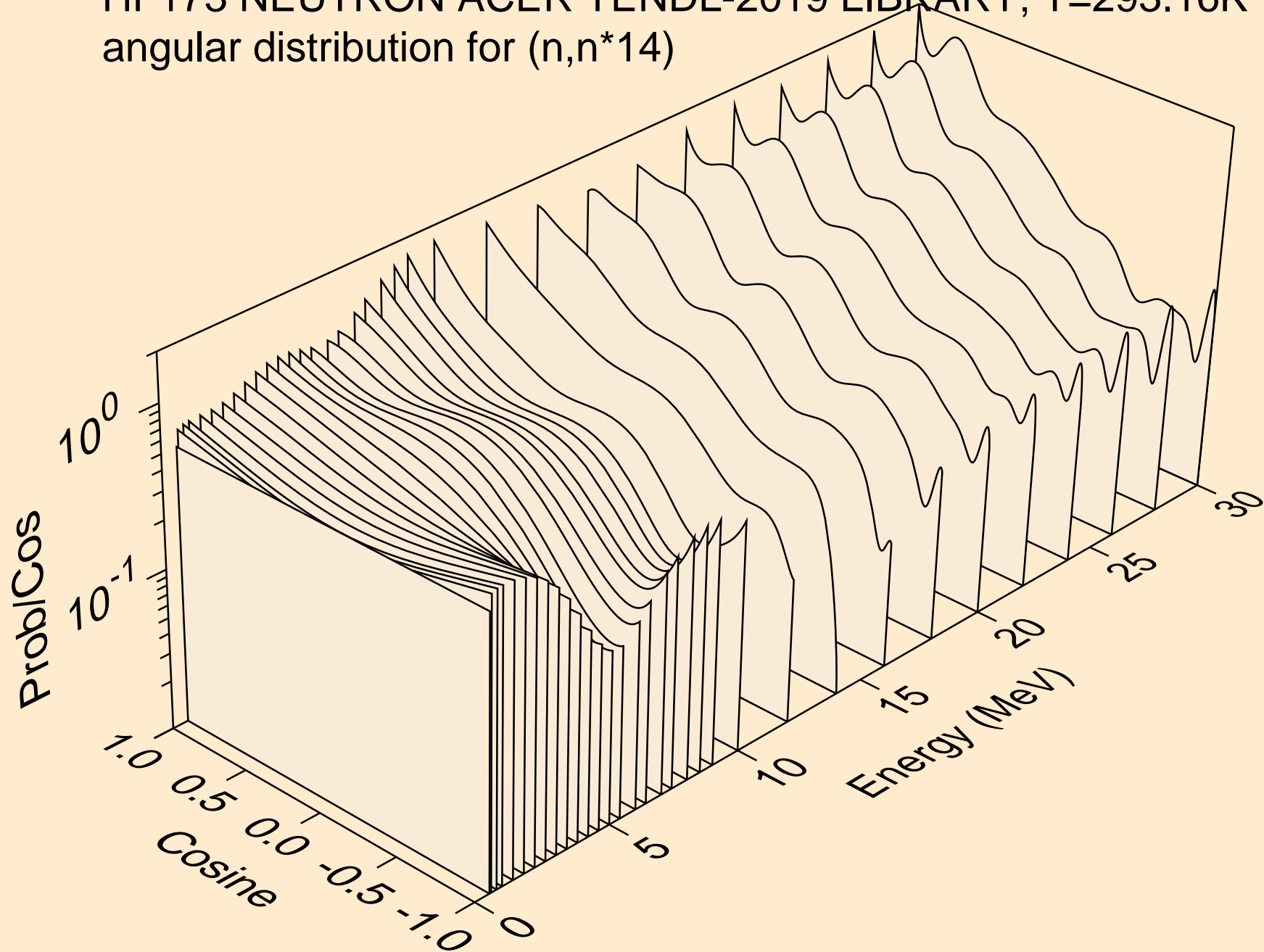
HF173 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*12)



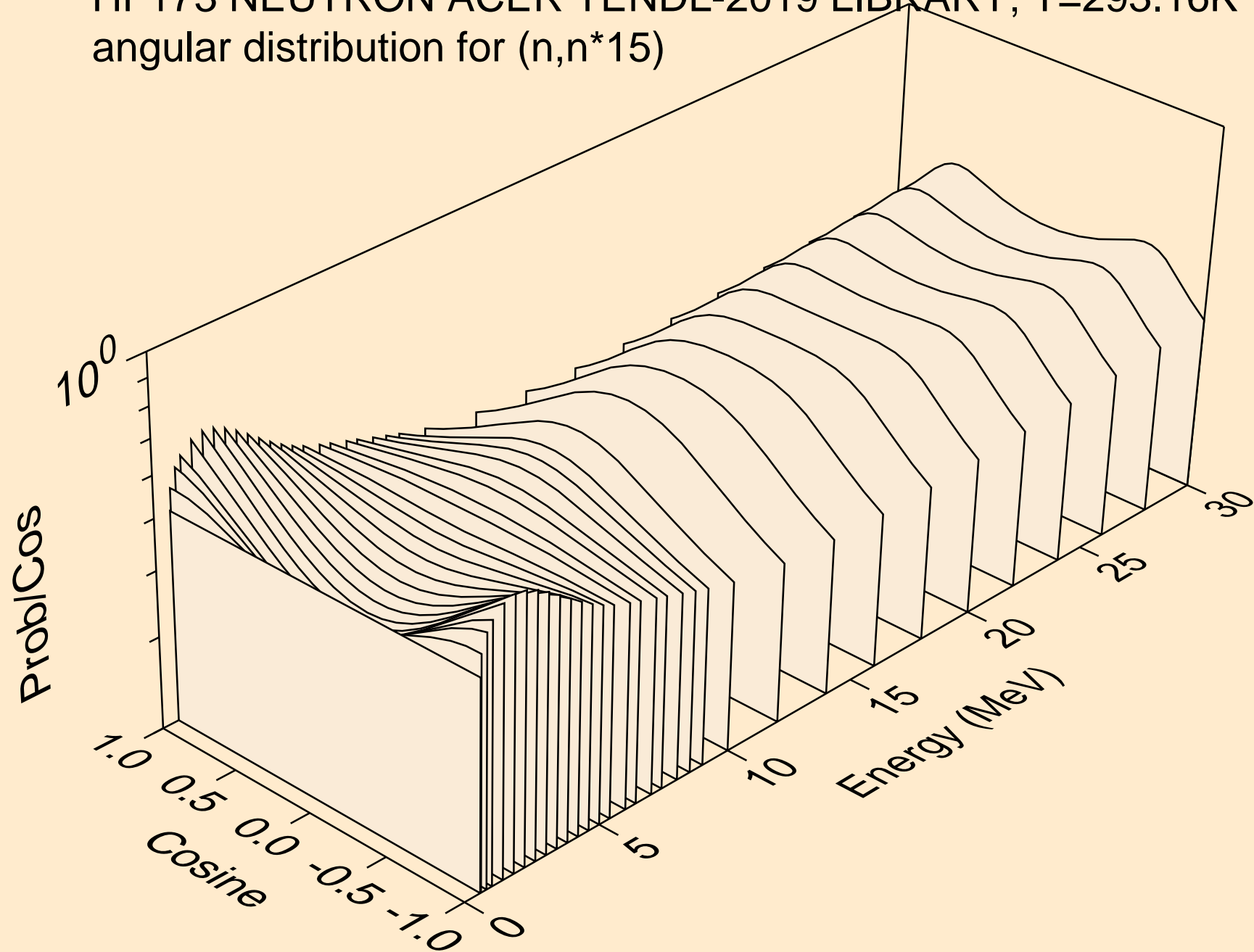
HF173 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*13)



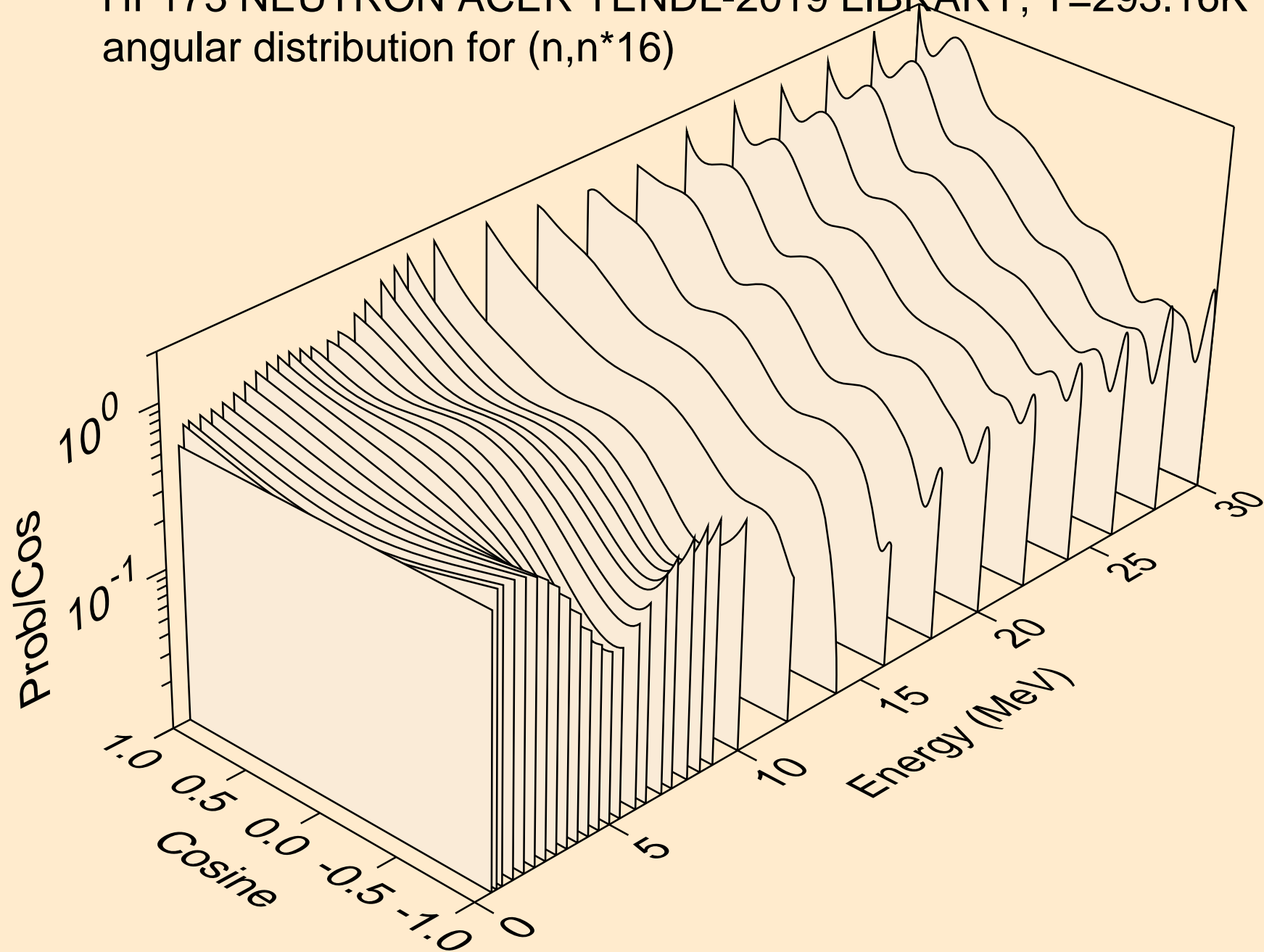
HF173 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*14)



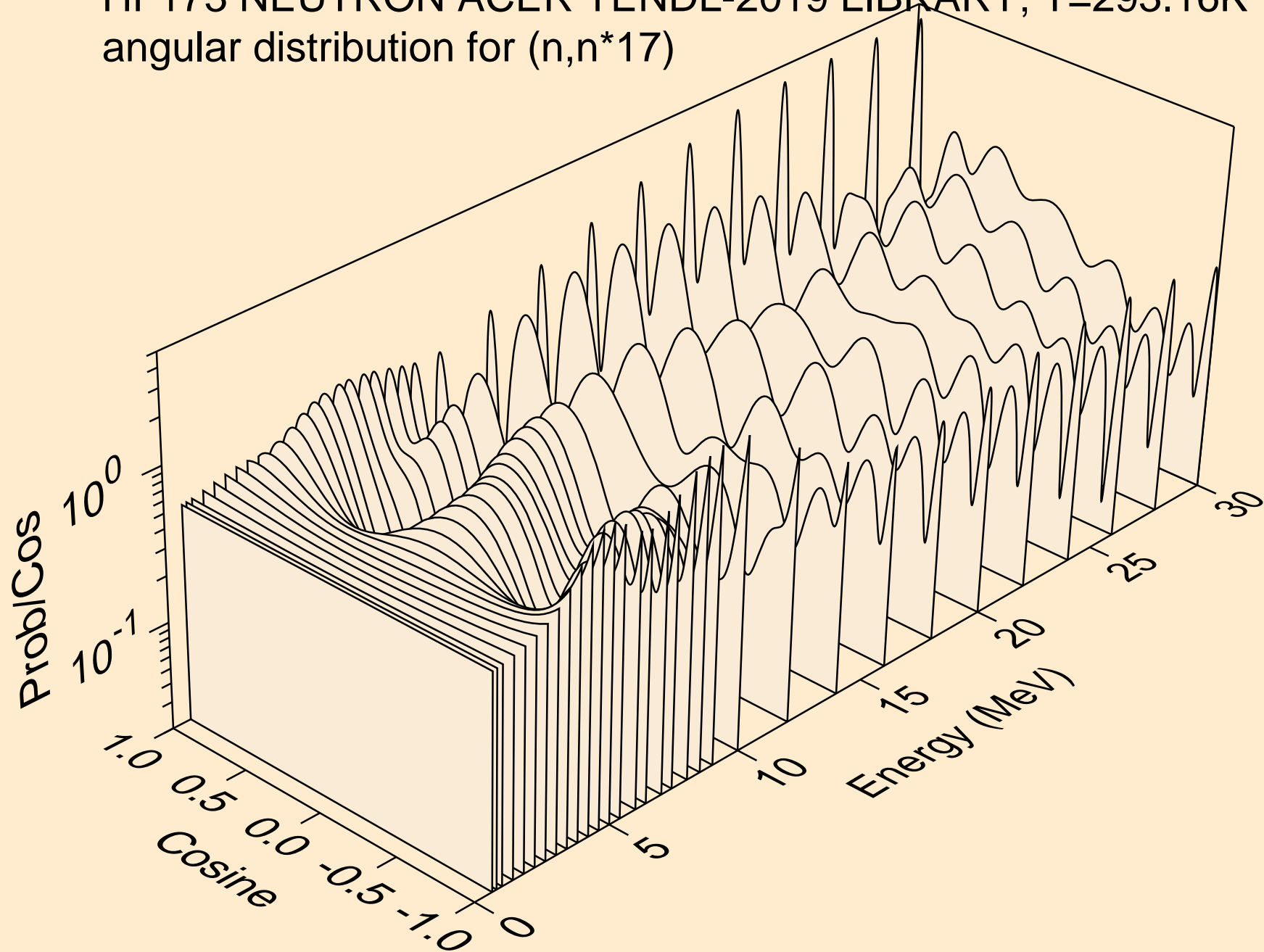
HF173 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*15)



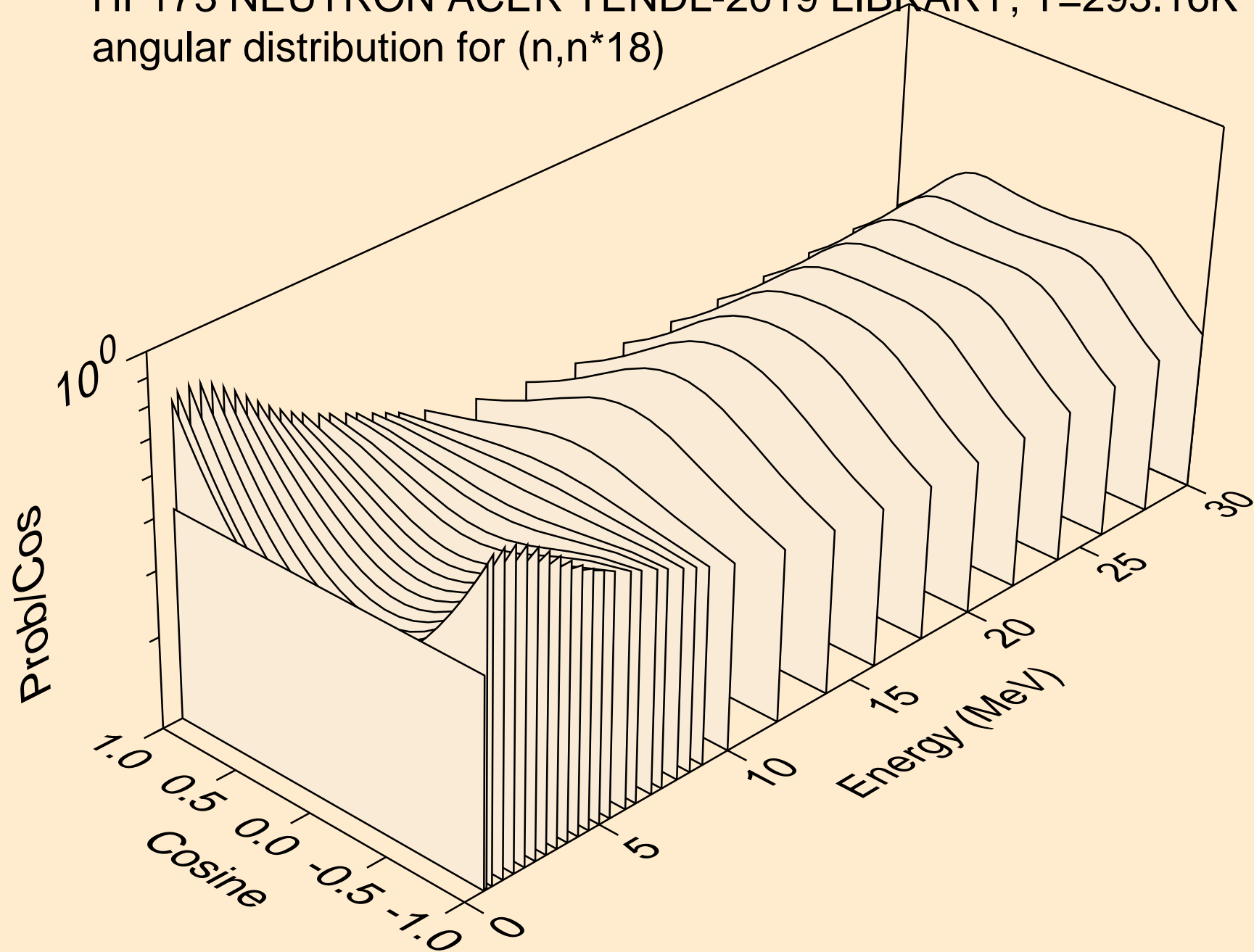
HF173 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*16)



HF173 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*17)

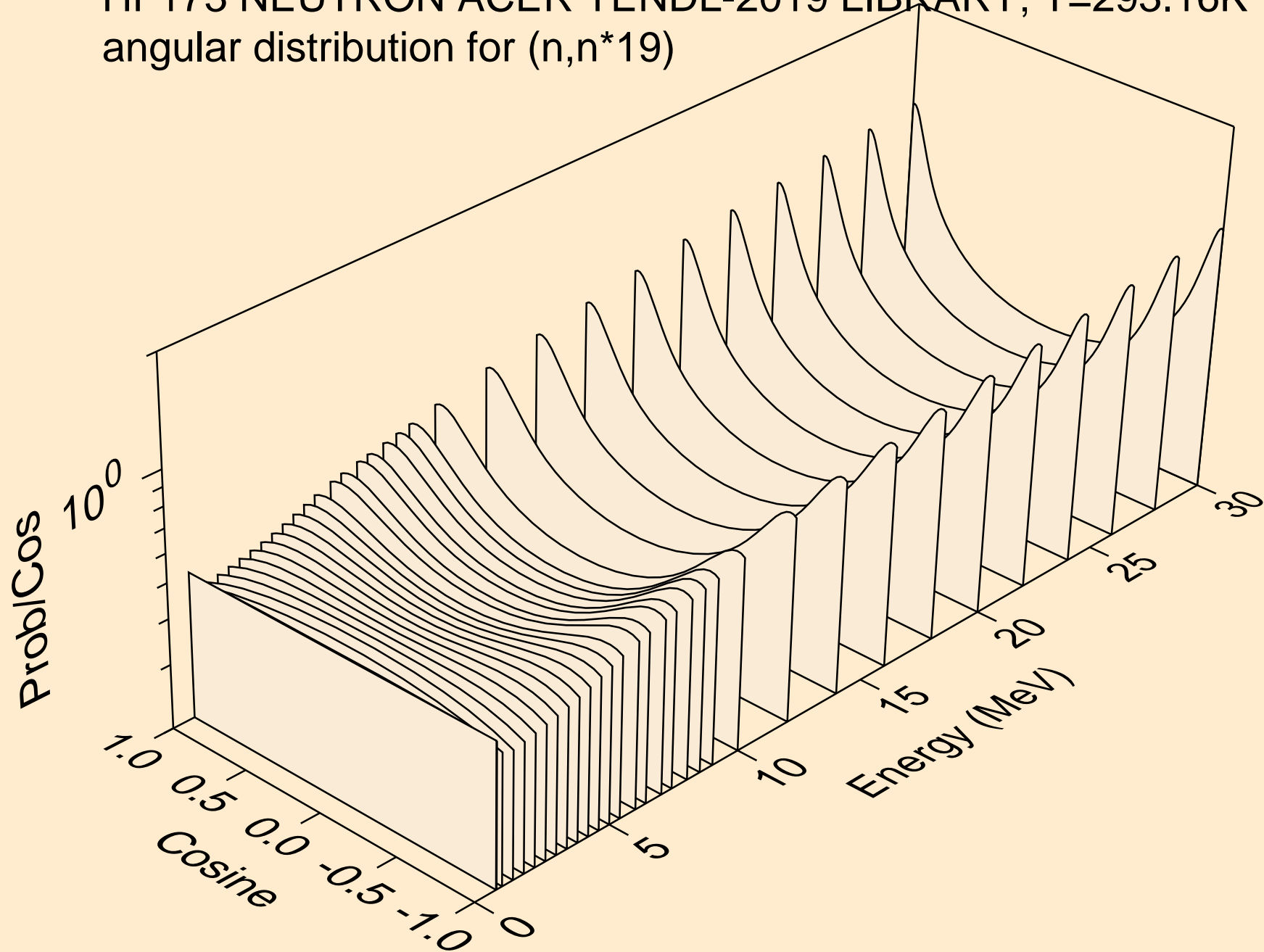


HF173 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*18)

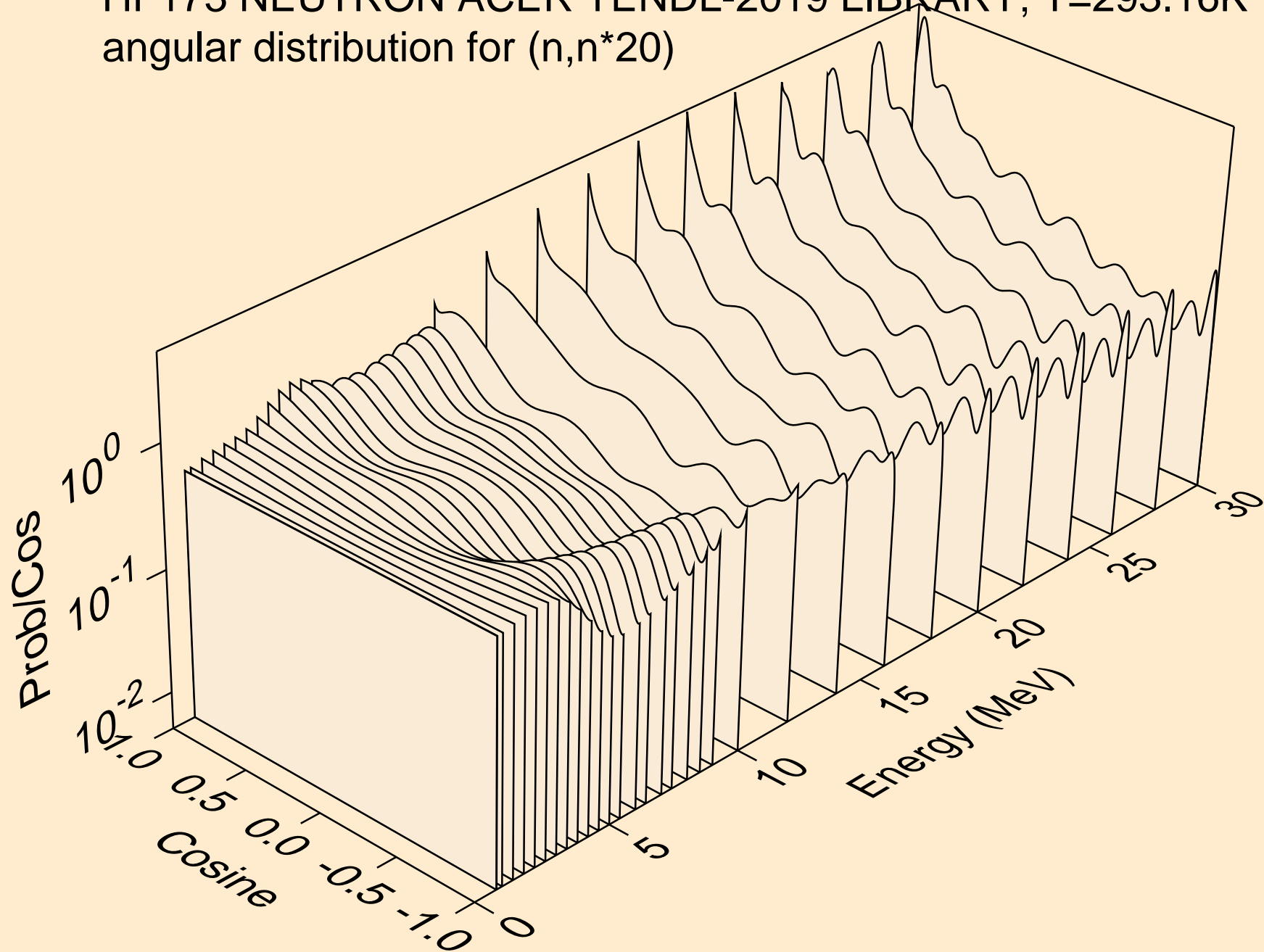




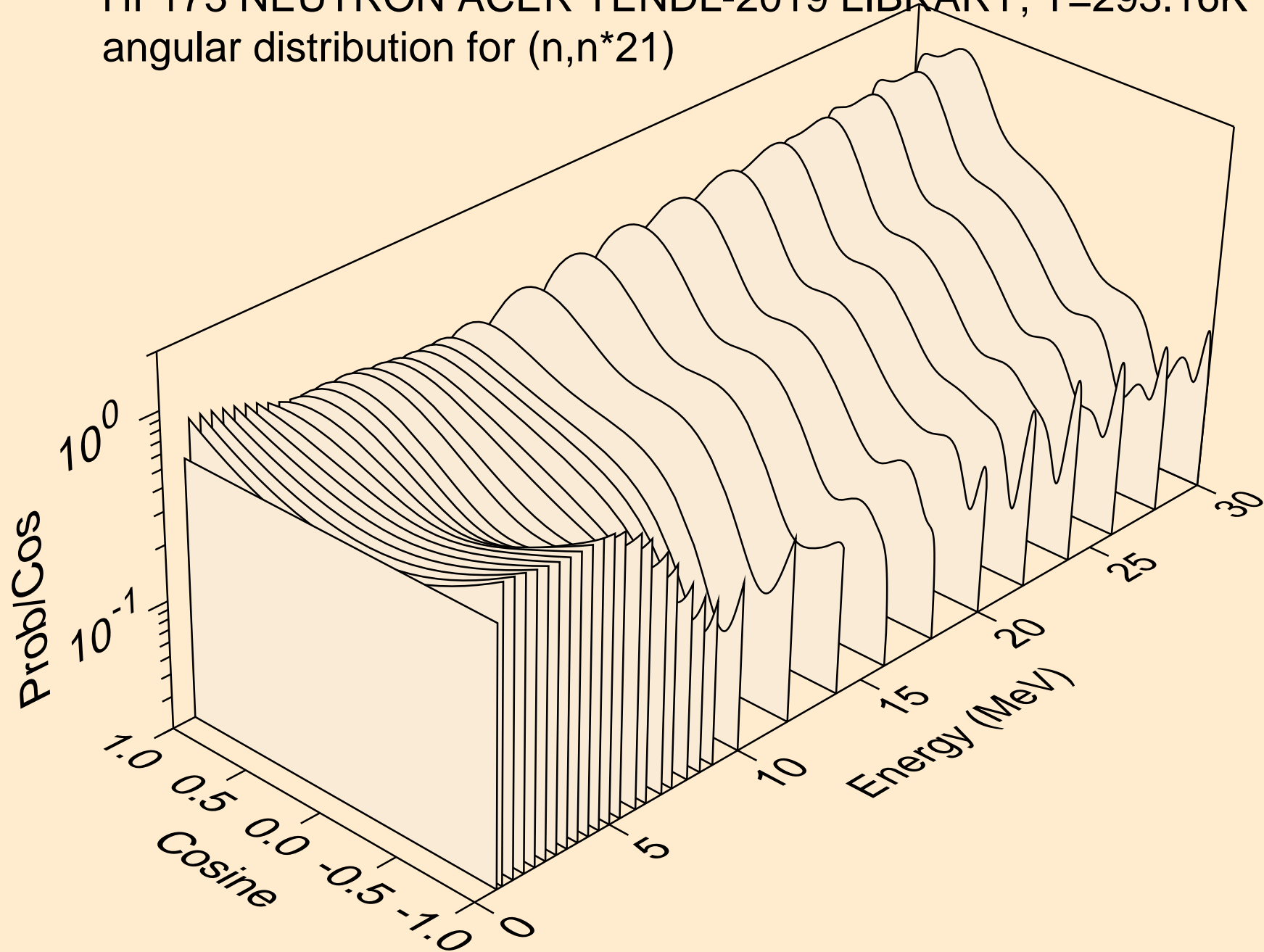
HF173 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*19)



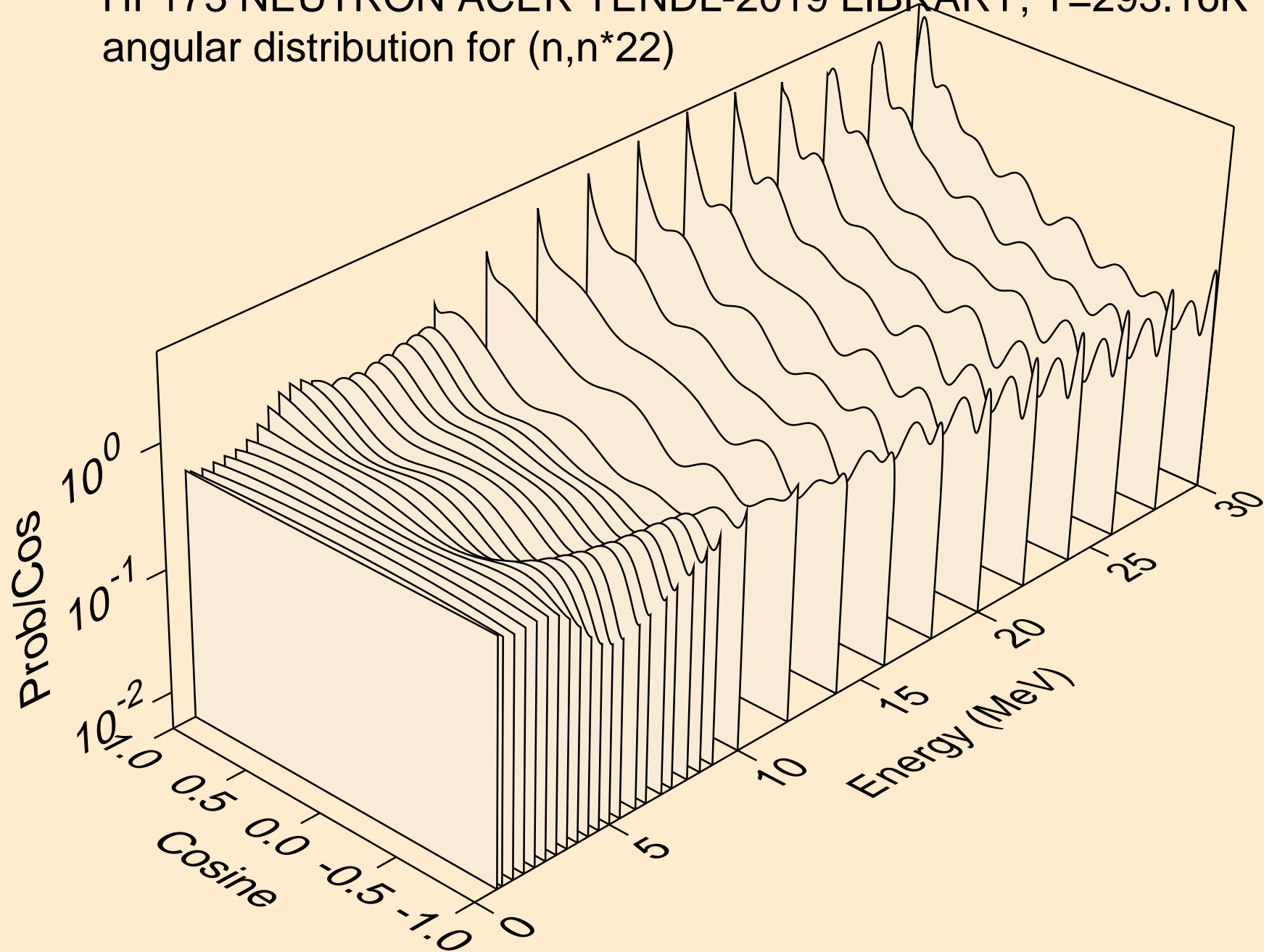
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angular distribution for (n,n\*20)



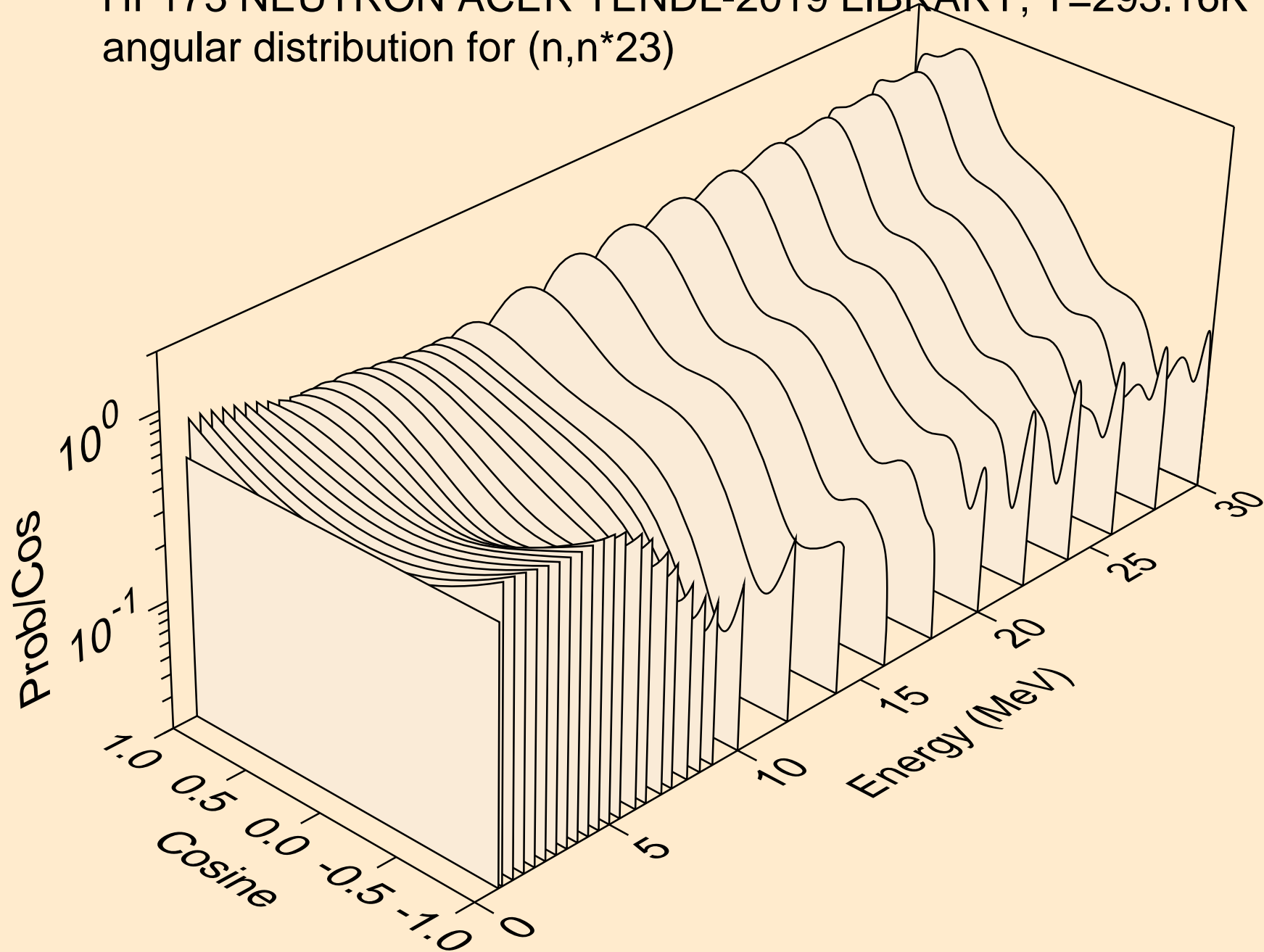
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angular distribution for (n,n\*21)



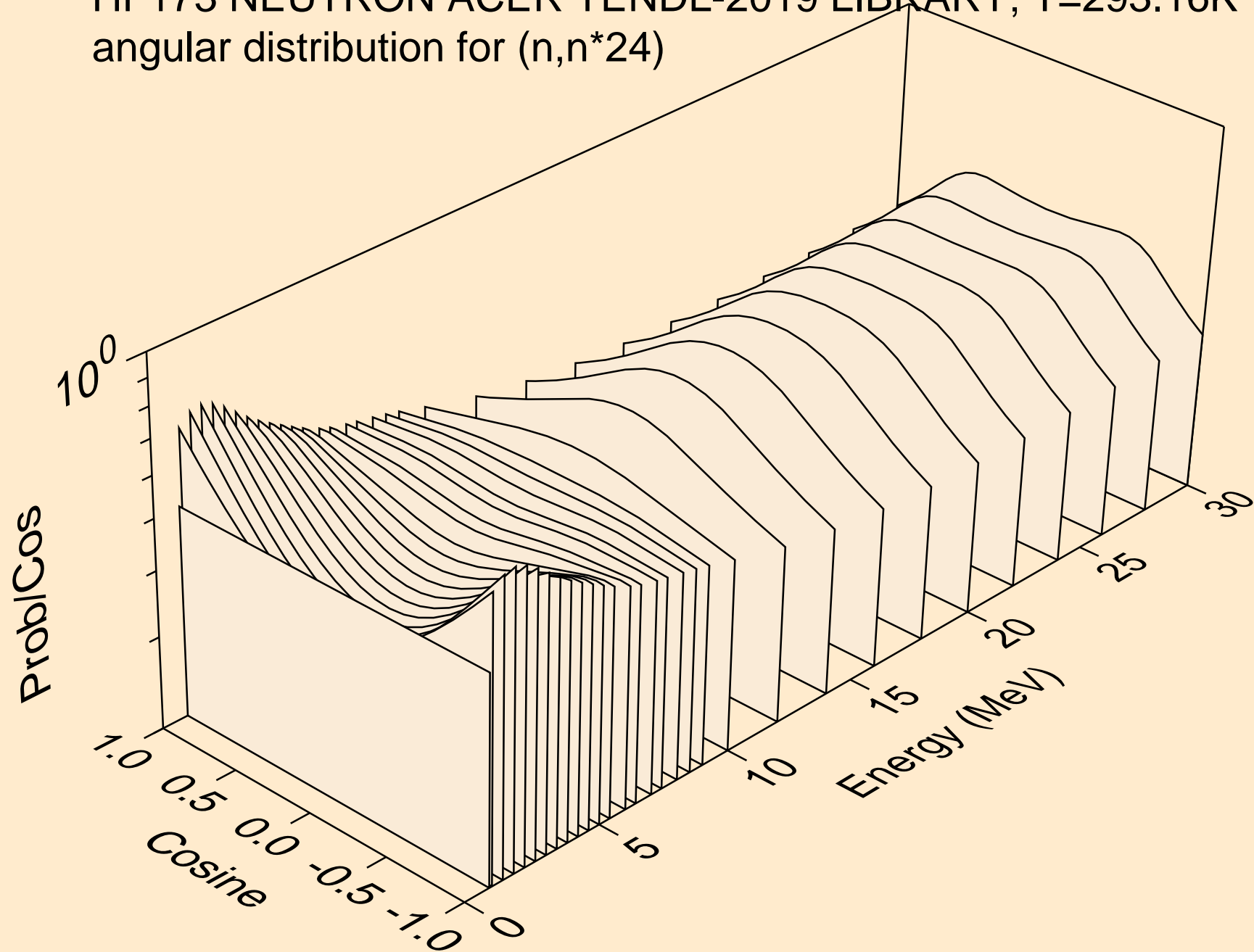
HF173 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*22)



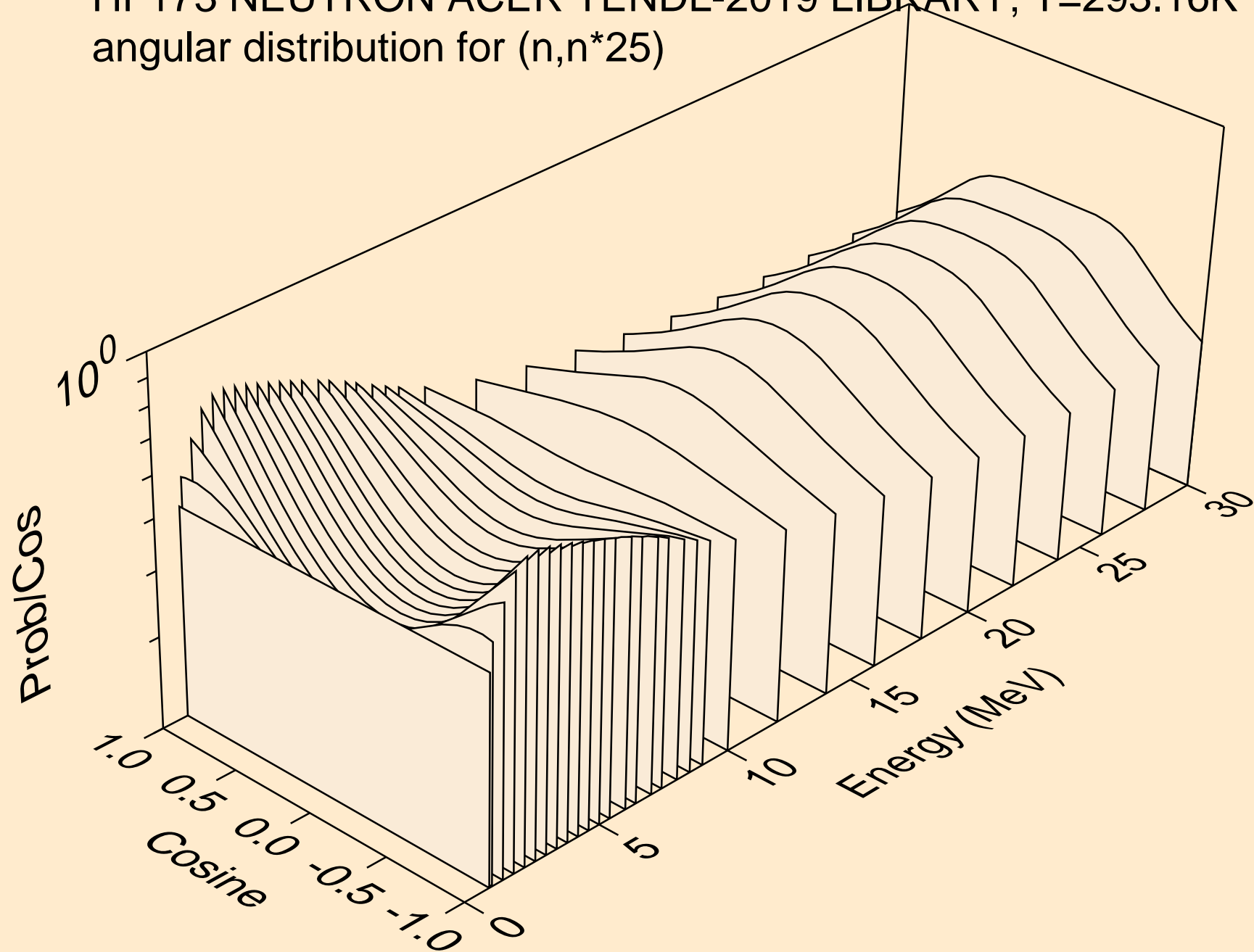
HF173 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*23)



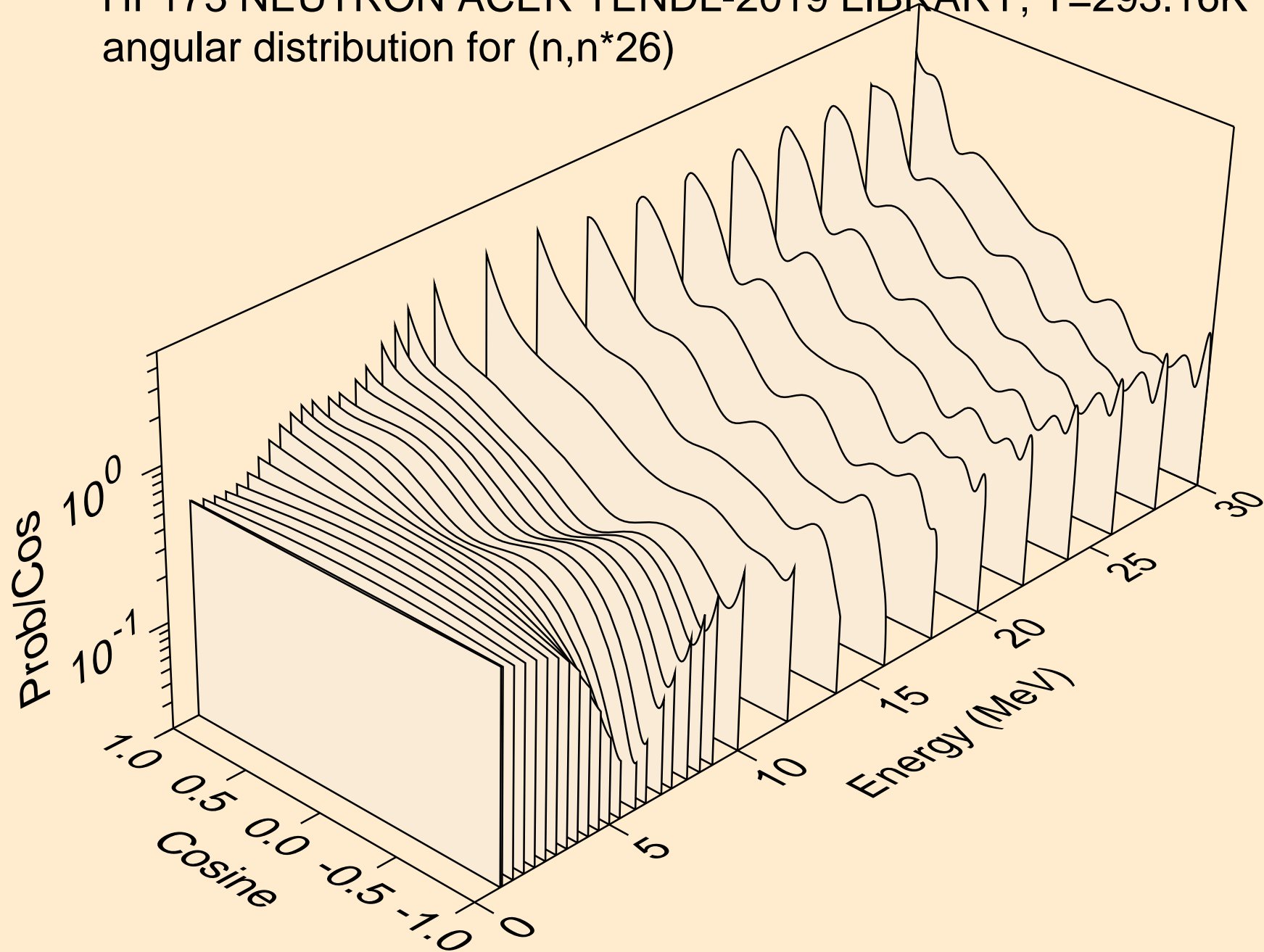
HF173 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*24)



HF173 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*25)

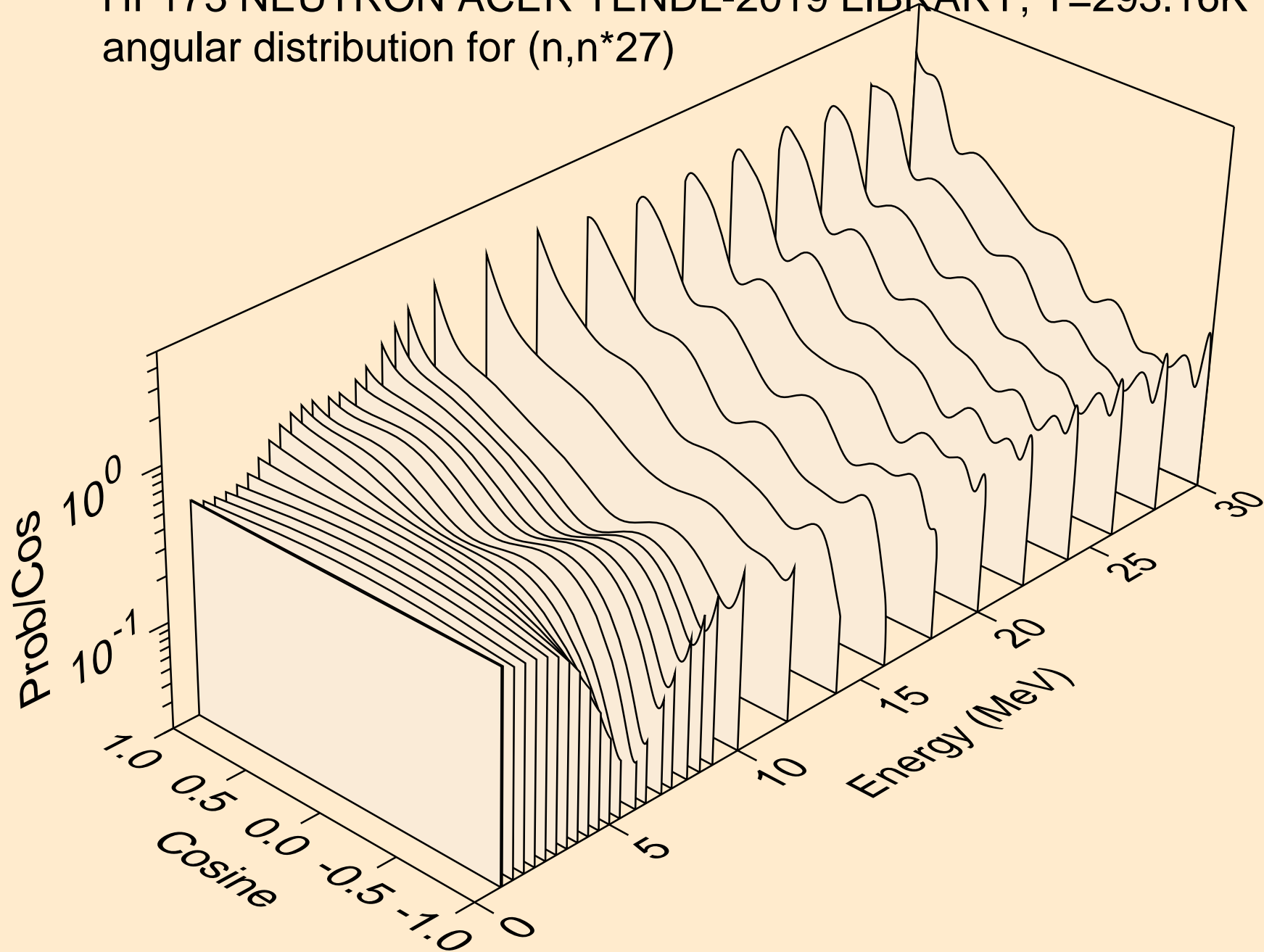


HF173 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*26)

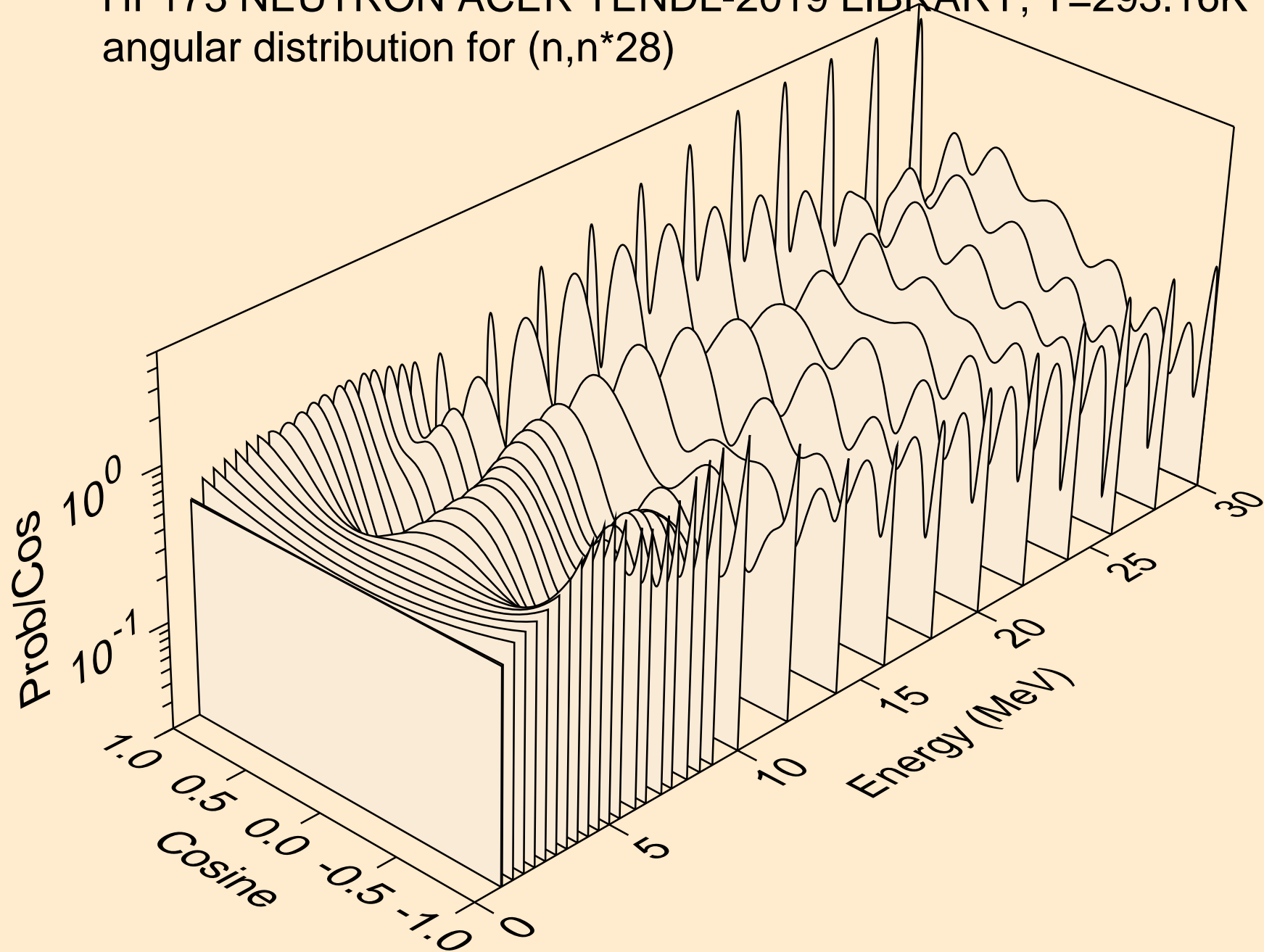




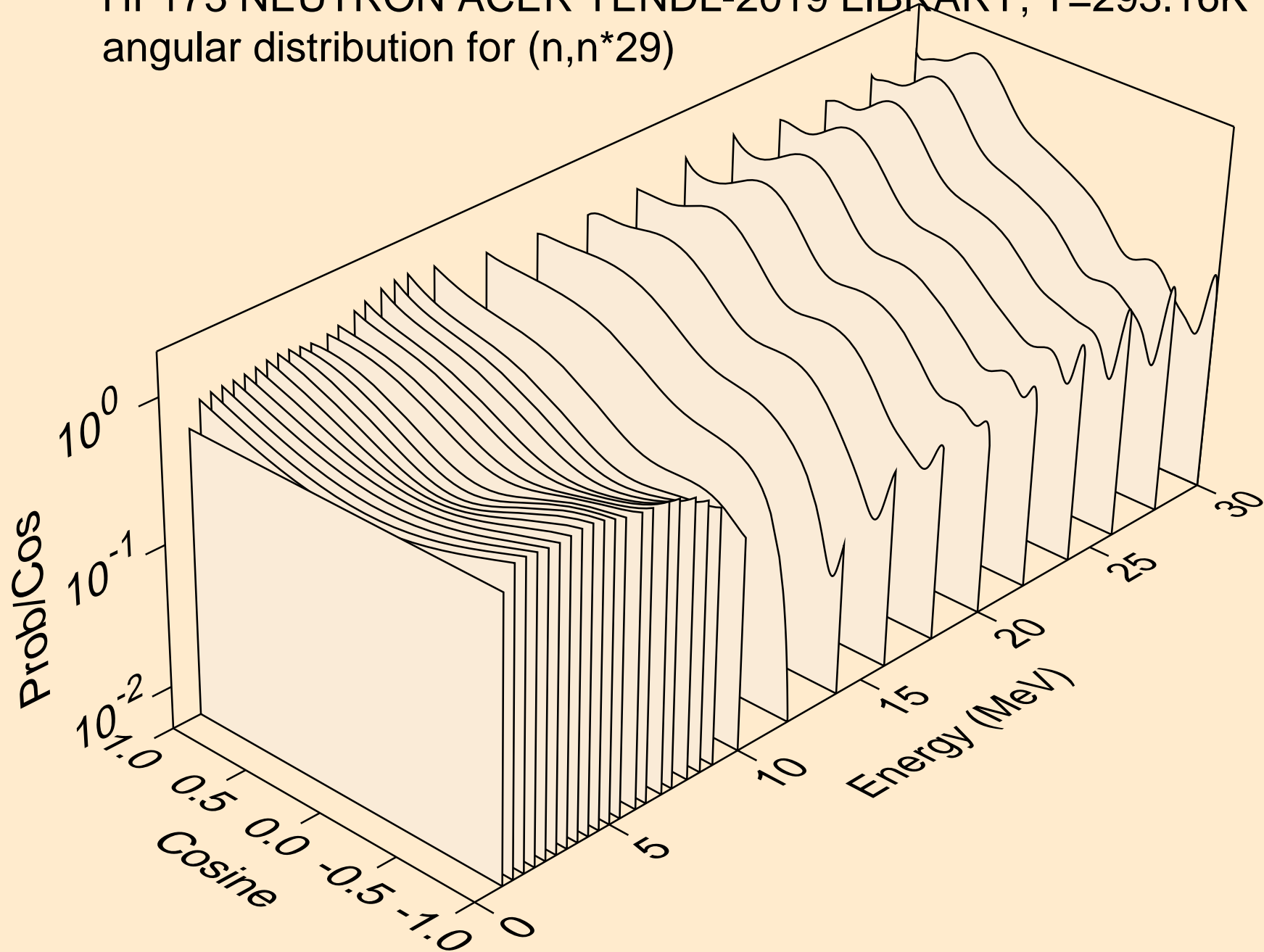
HF173 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*27)



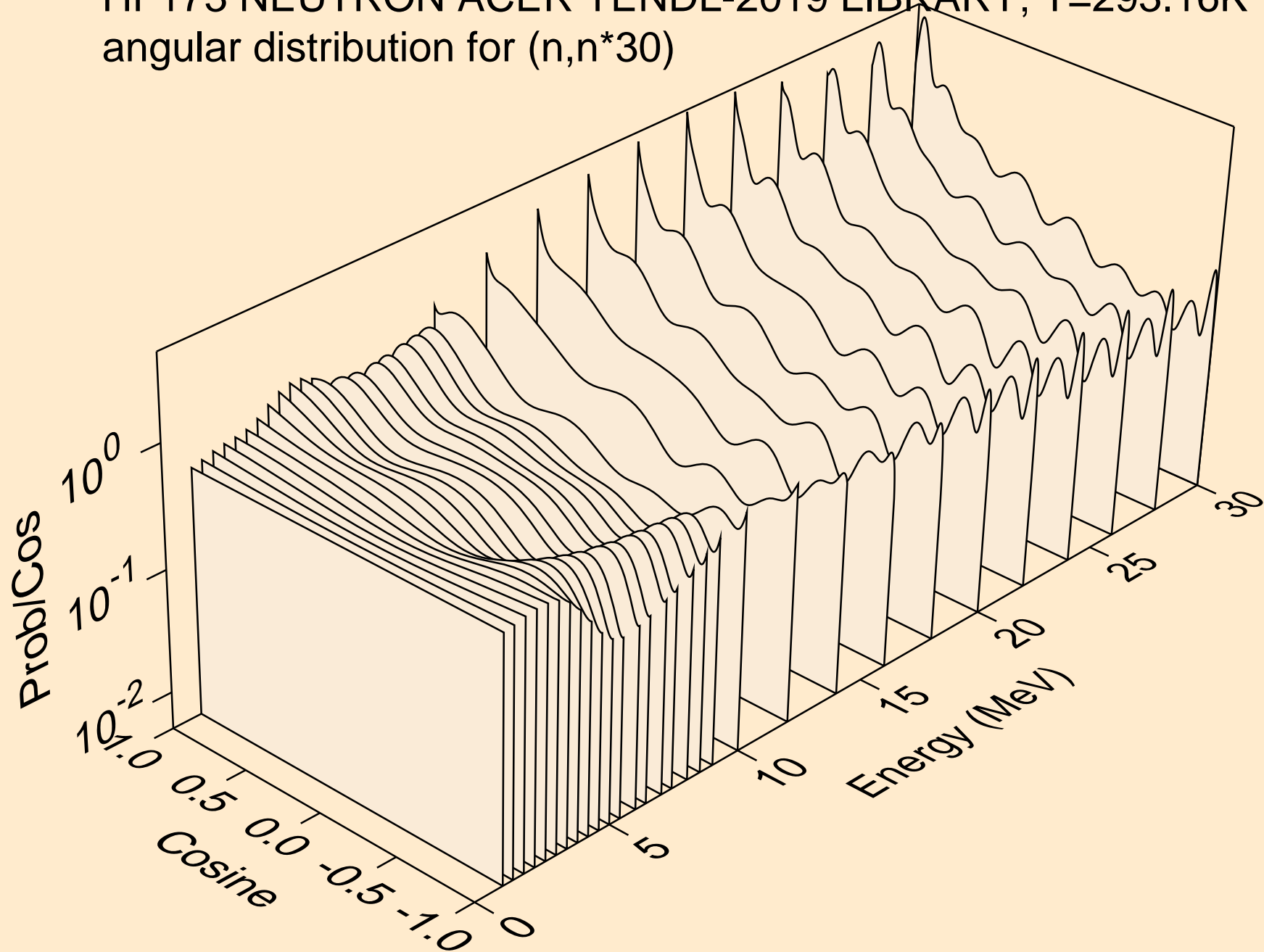
HF173 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*28)



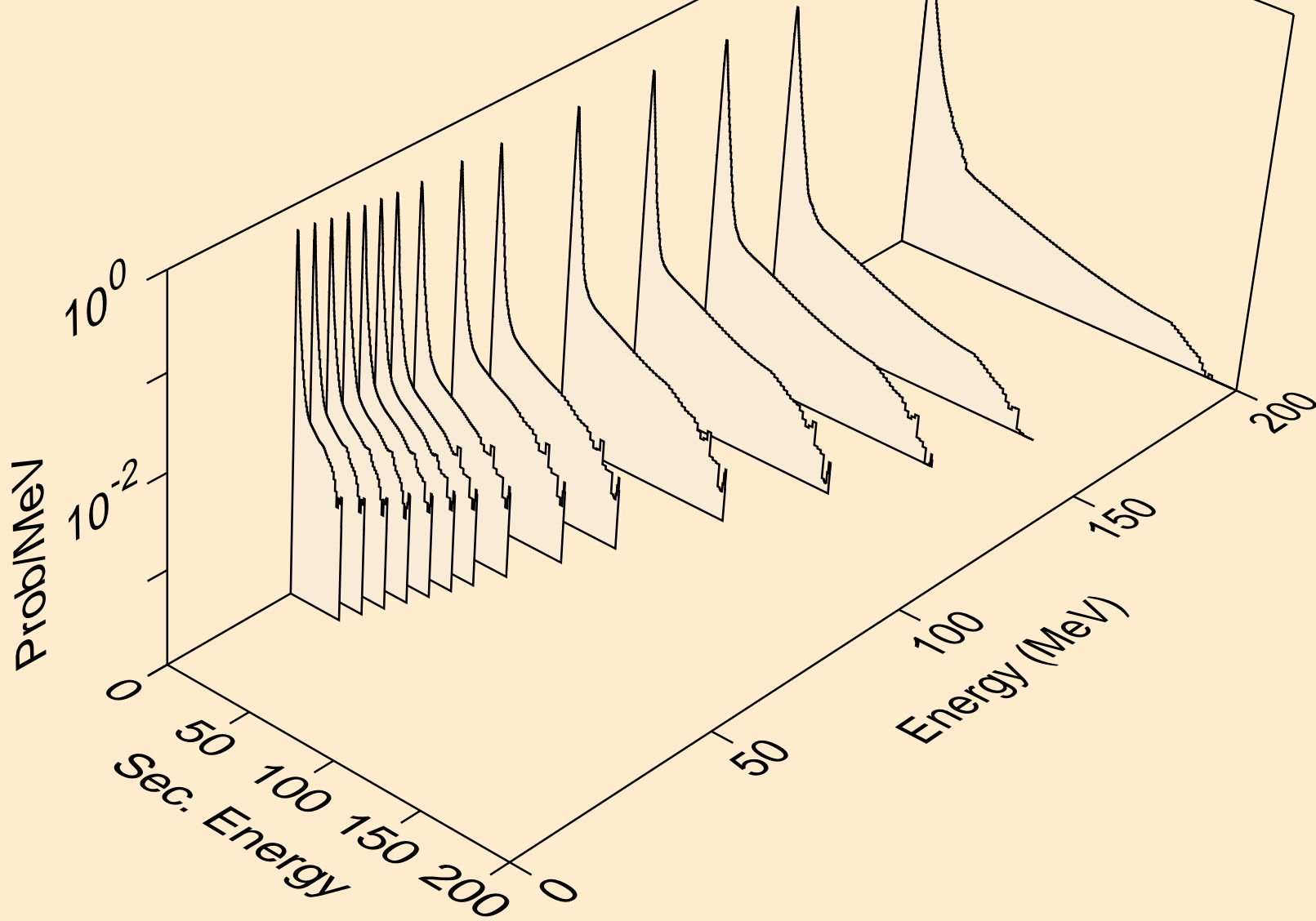
HF173 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*29)



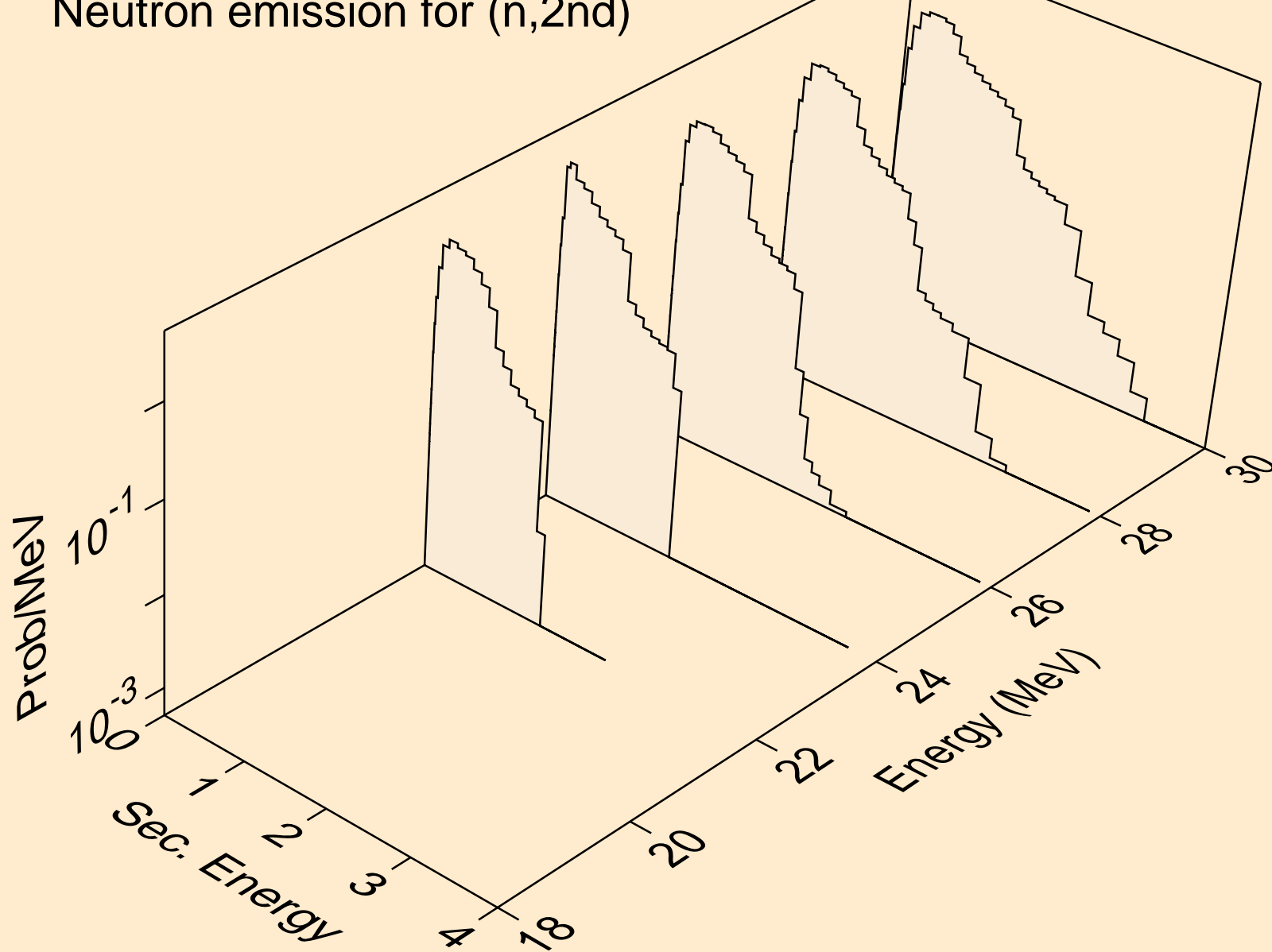
HF173 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*30)



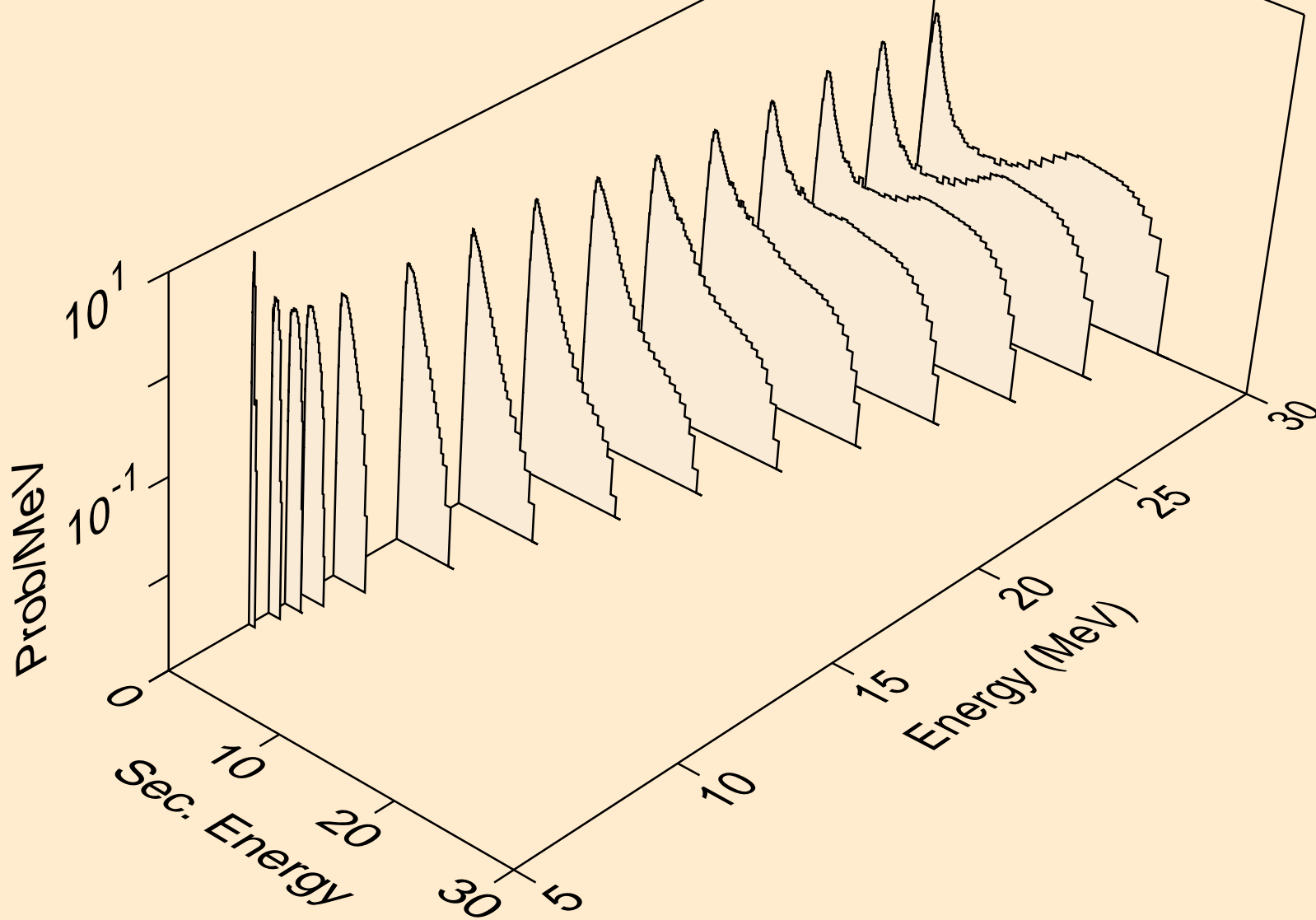
HF173 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,x)



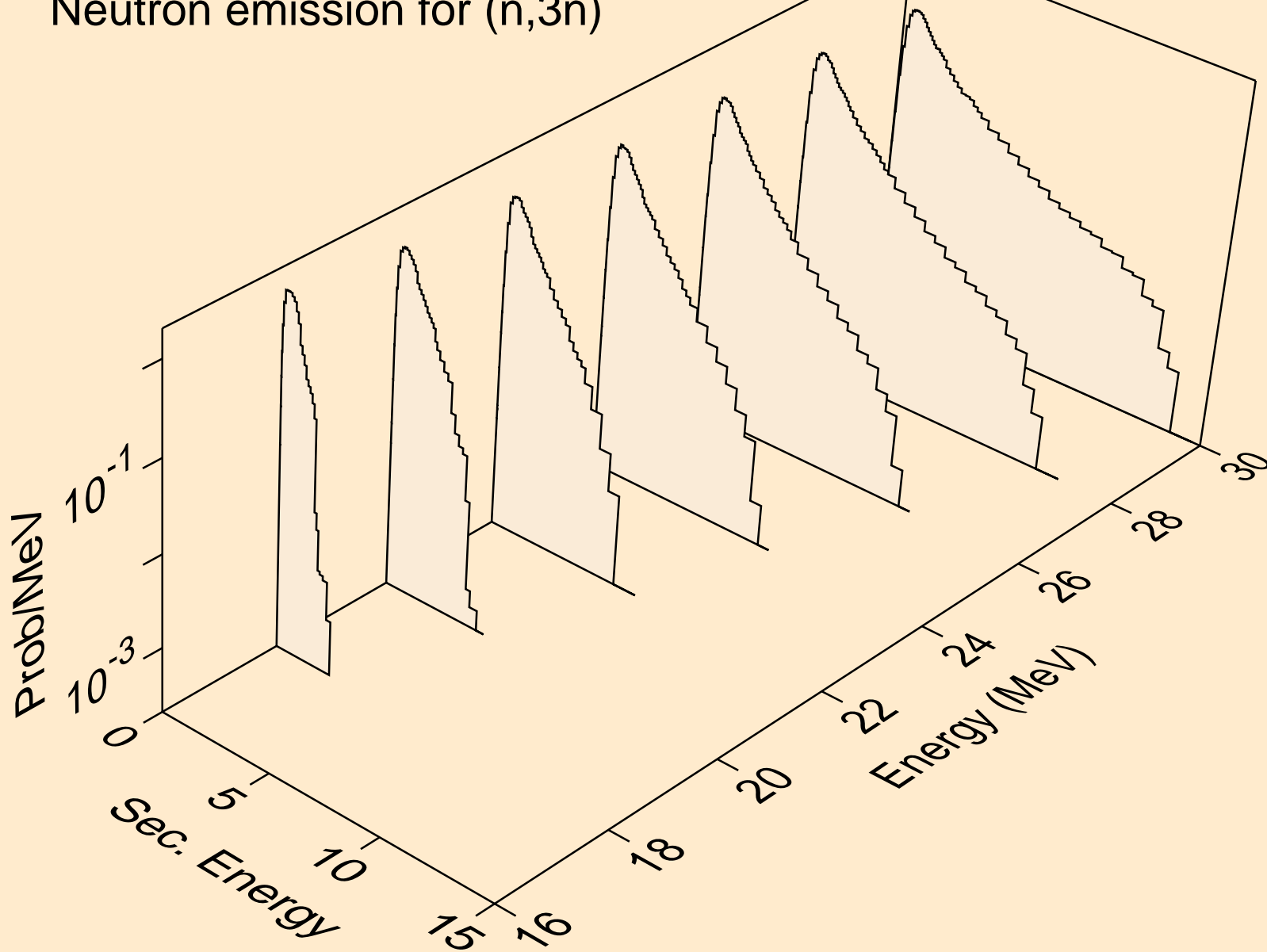
HF173 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,2nd)



HF173 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,2n)

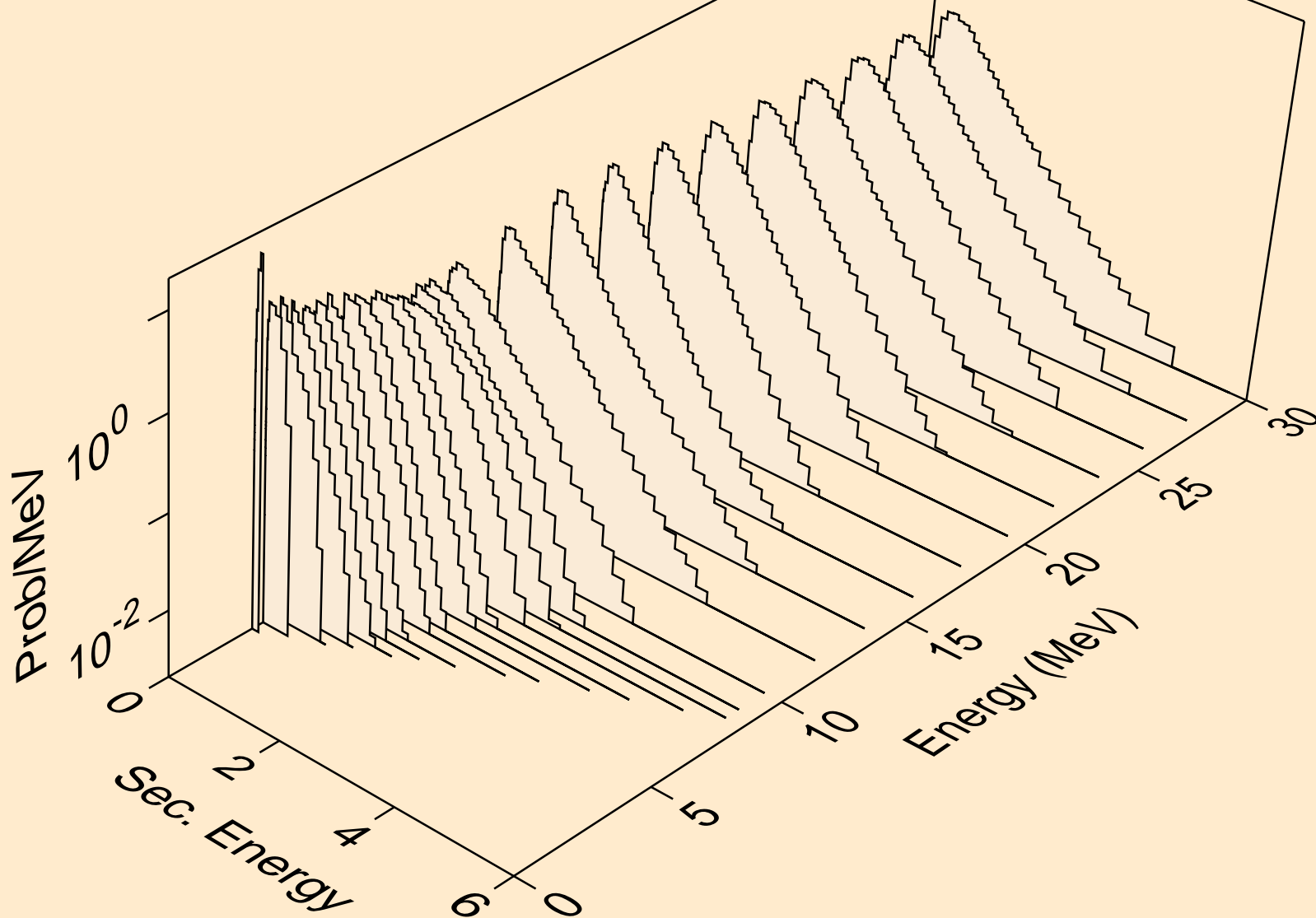


HF173 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,3n)

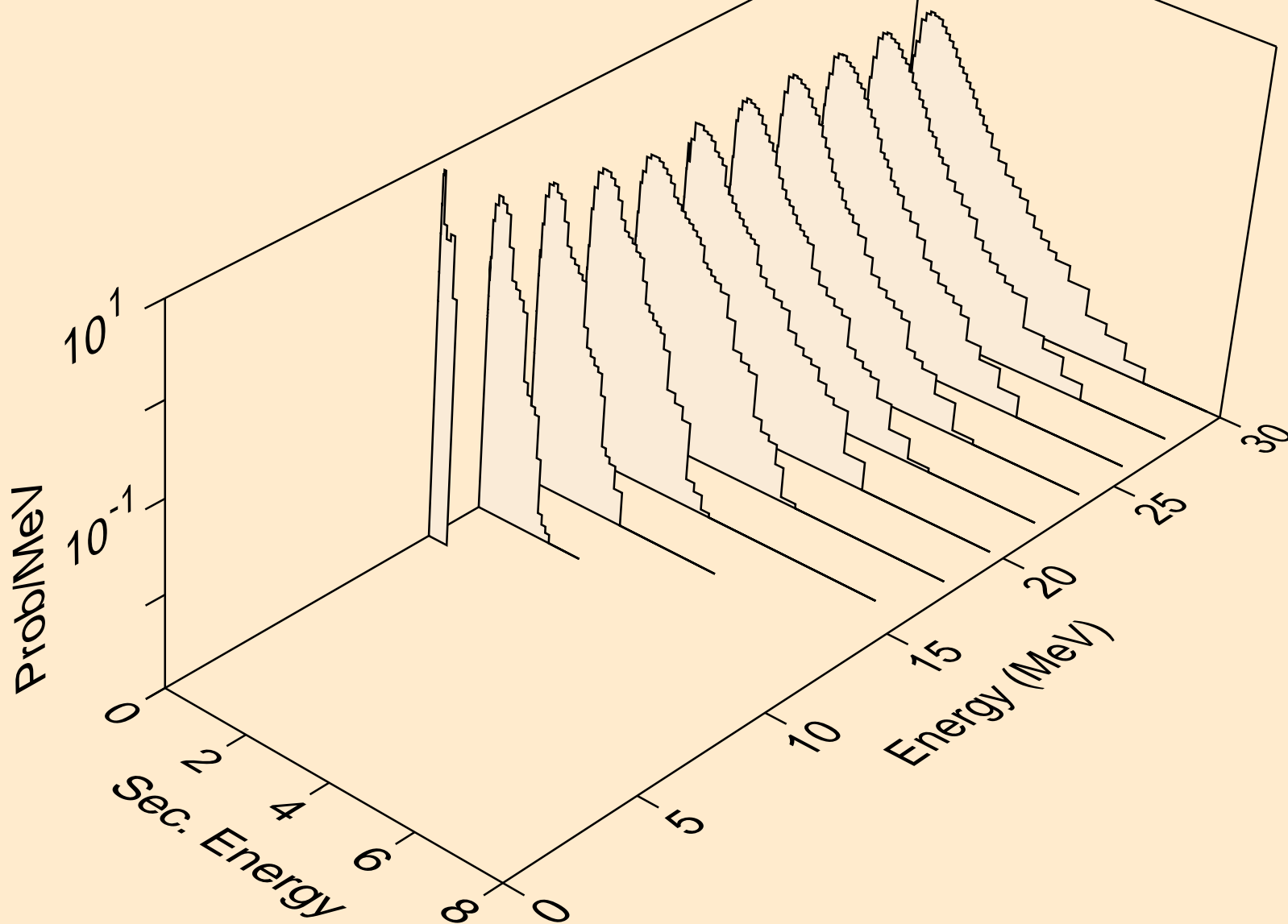




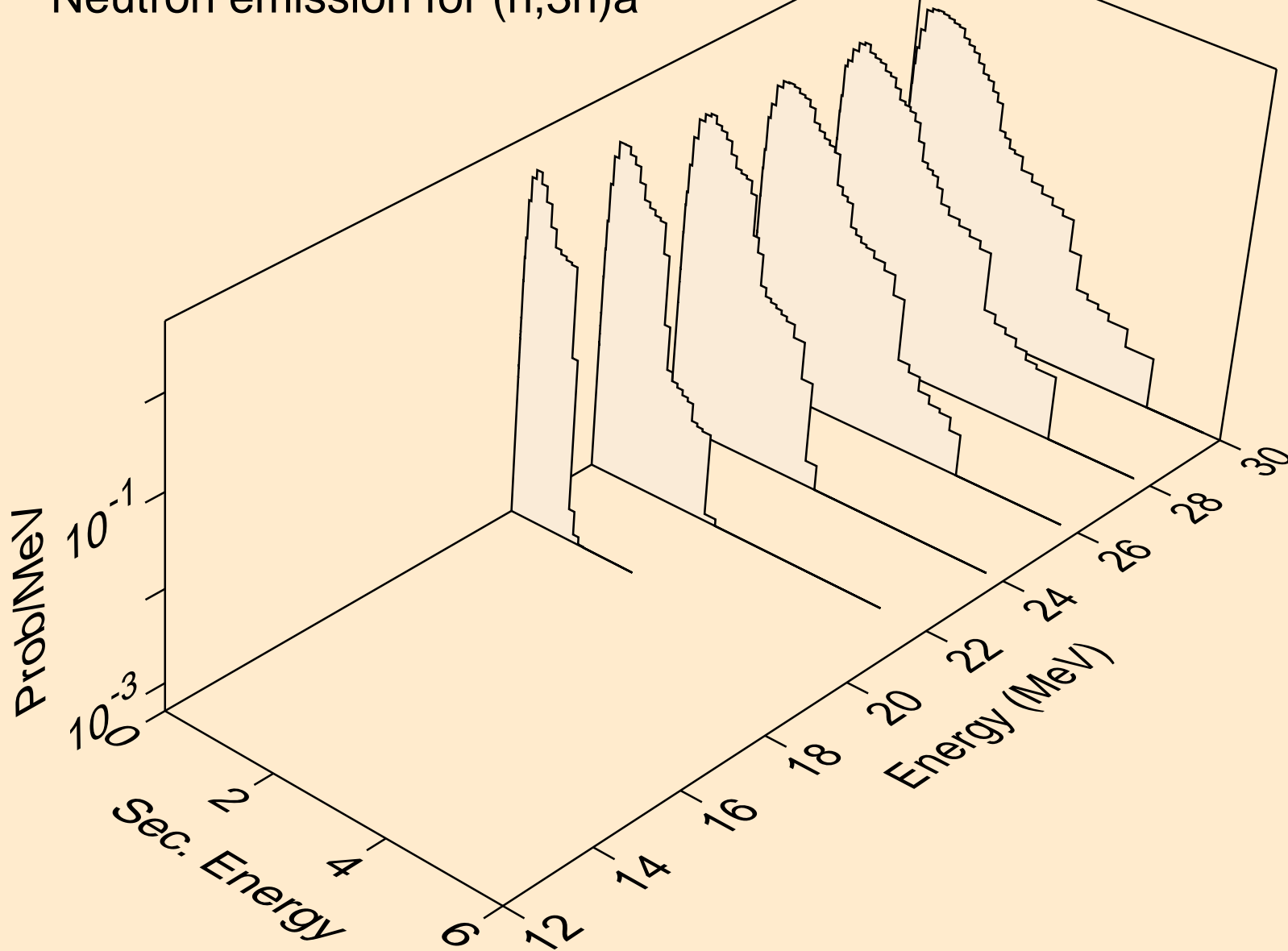
HF173 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,n\*)a



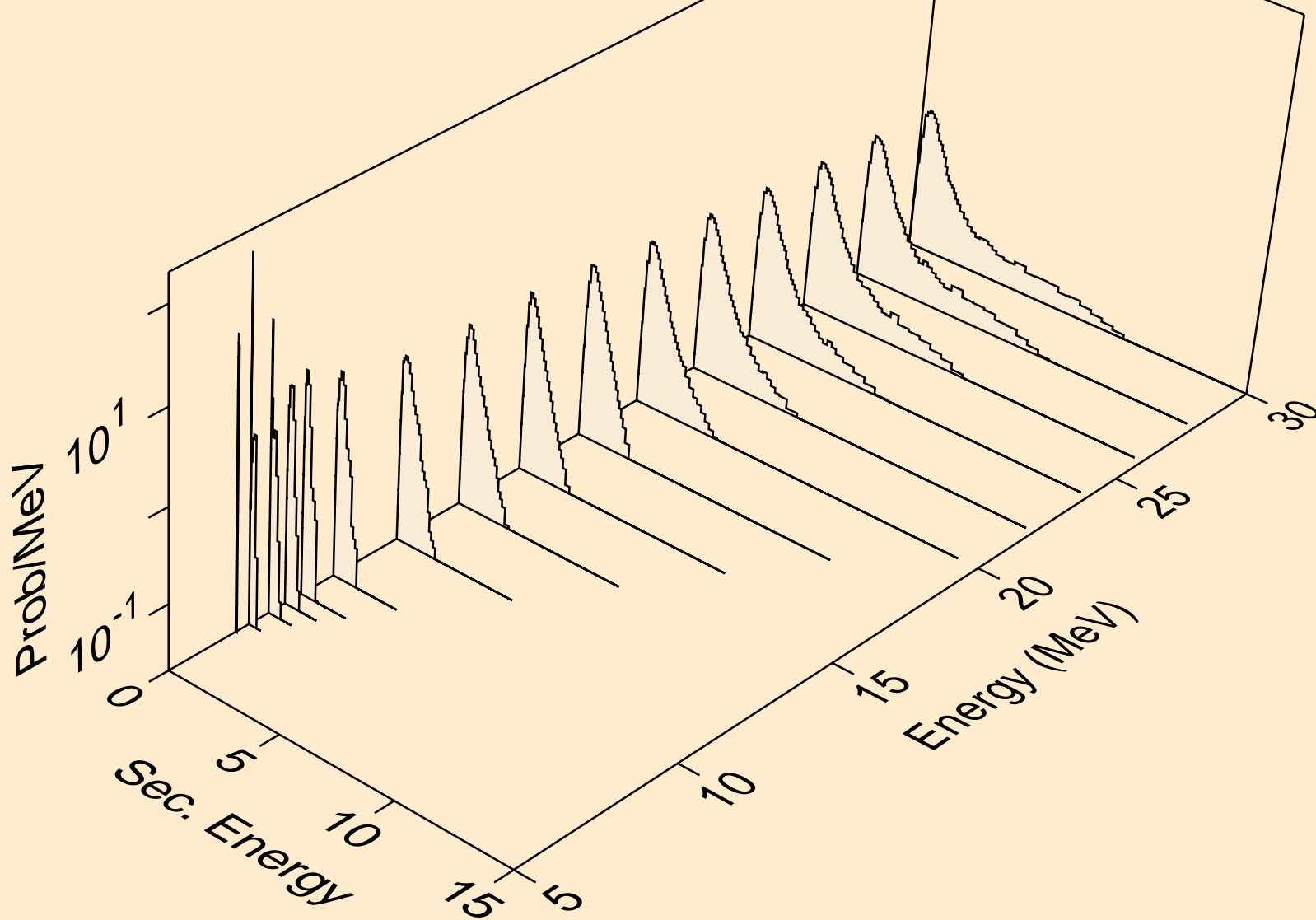
HF173 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,2n)a



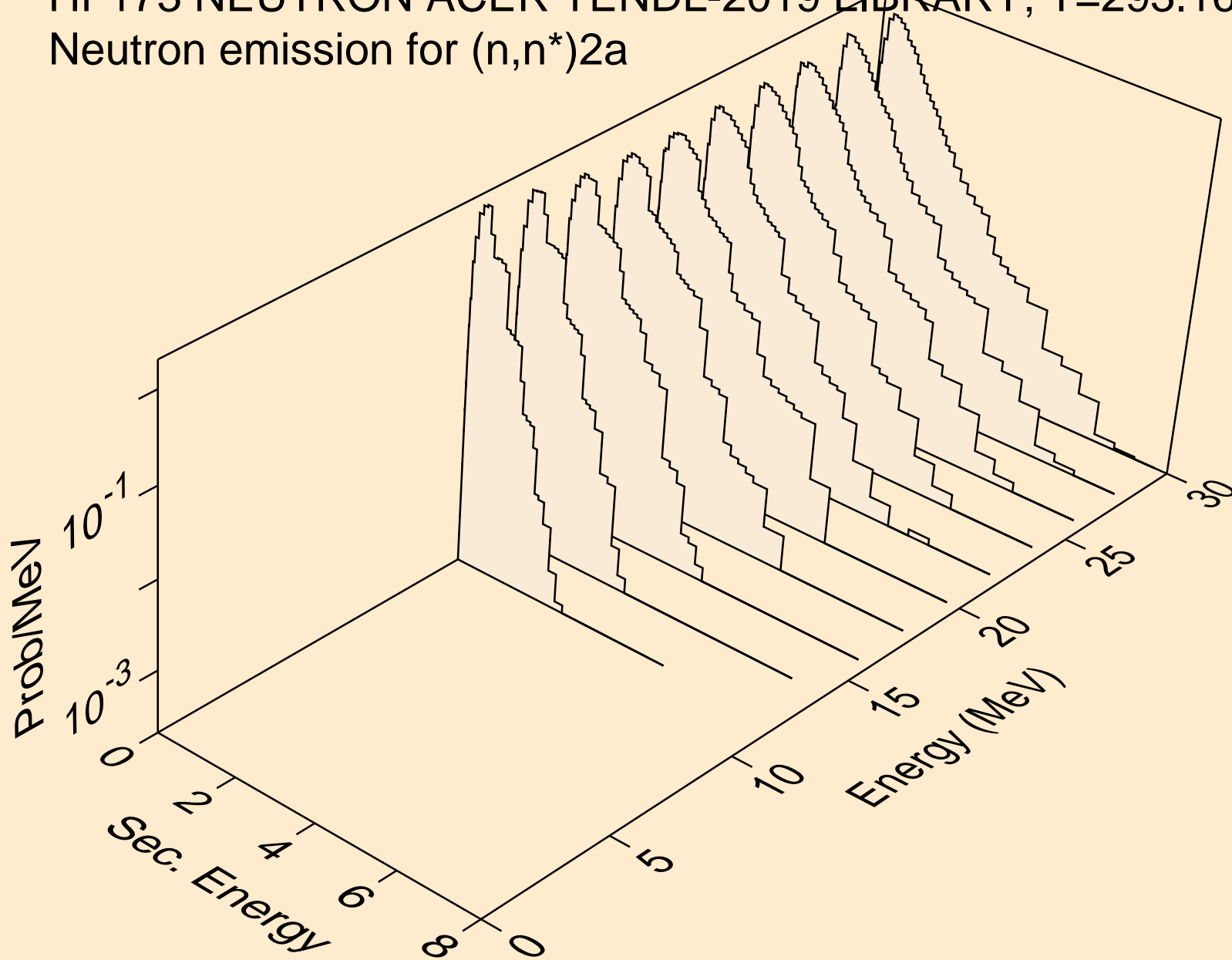
HF173 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,3n)a



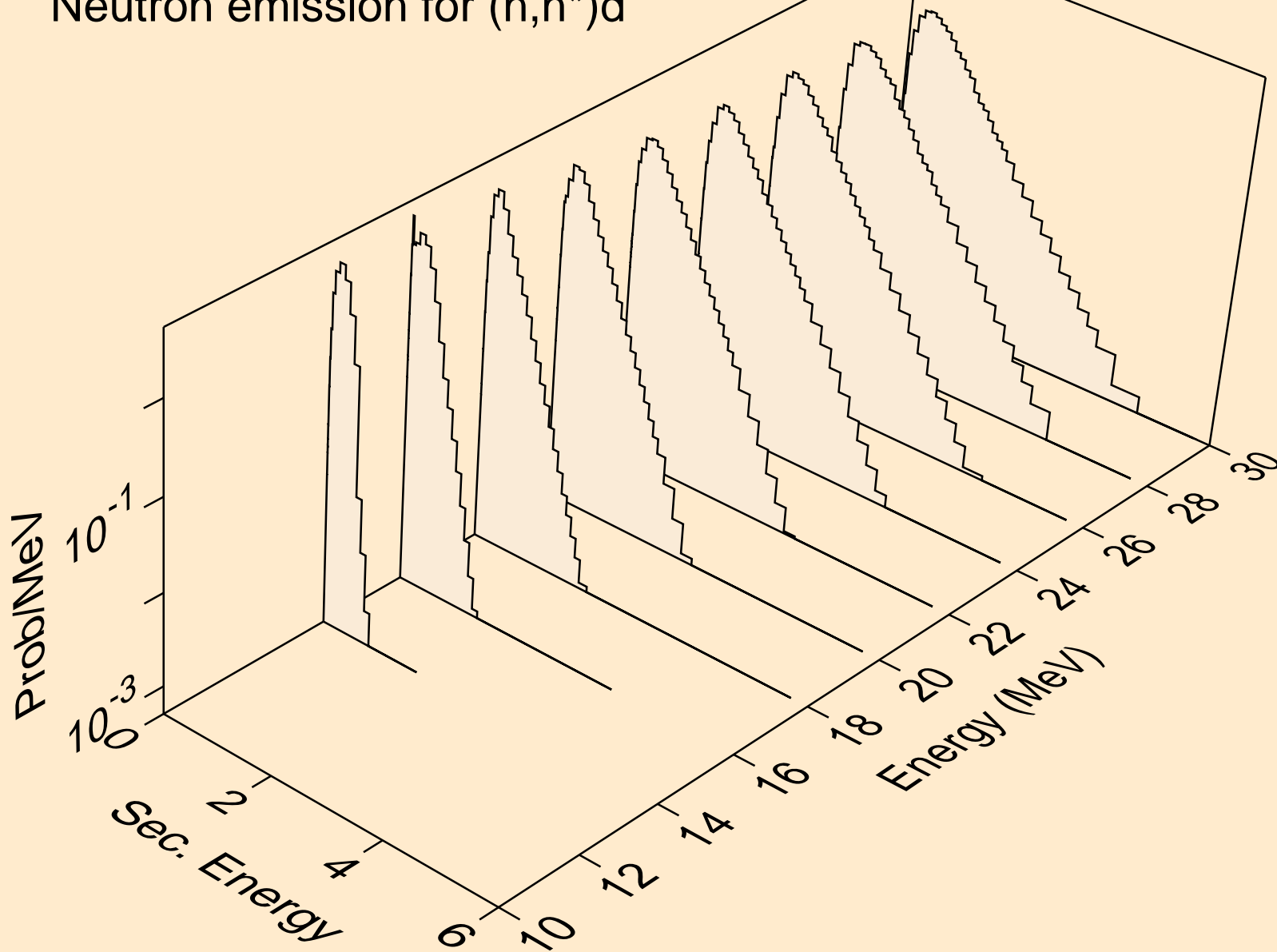
HF173 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,n\*)p



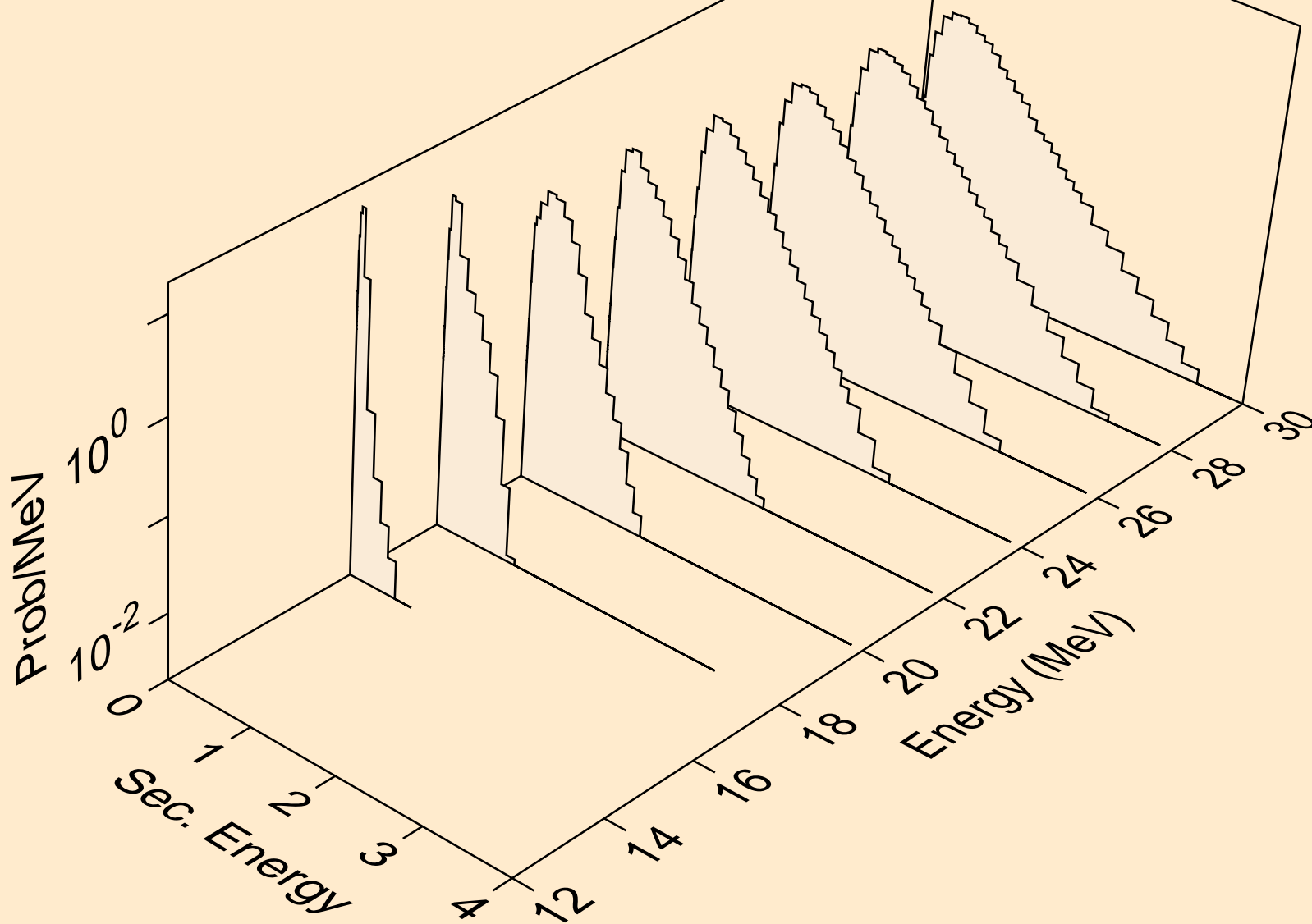
HF173 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,n\*)2a



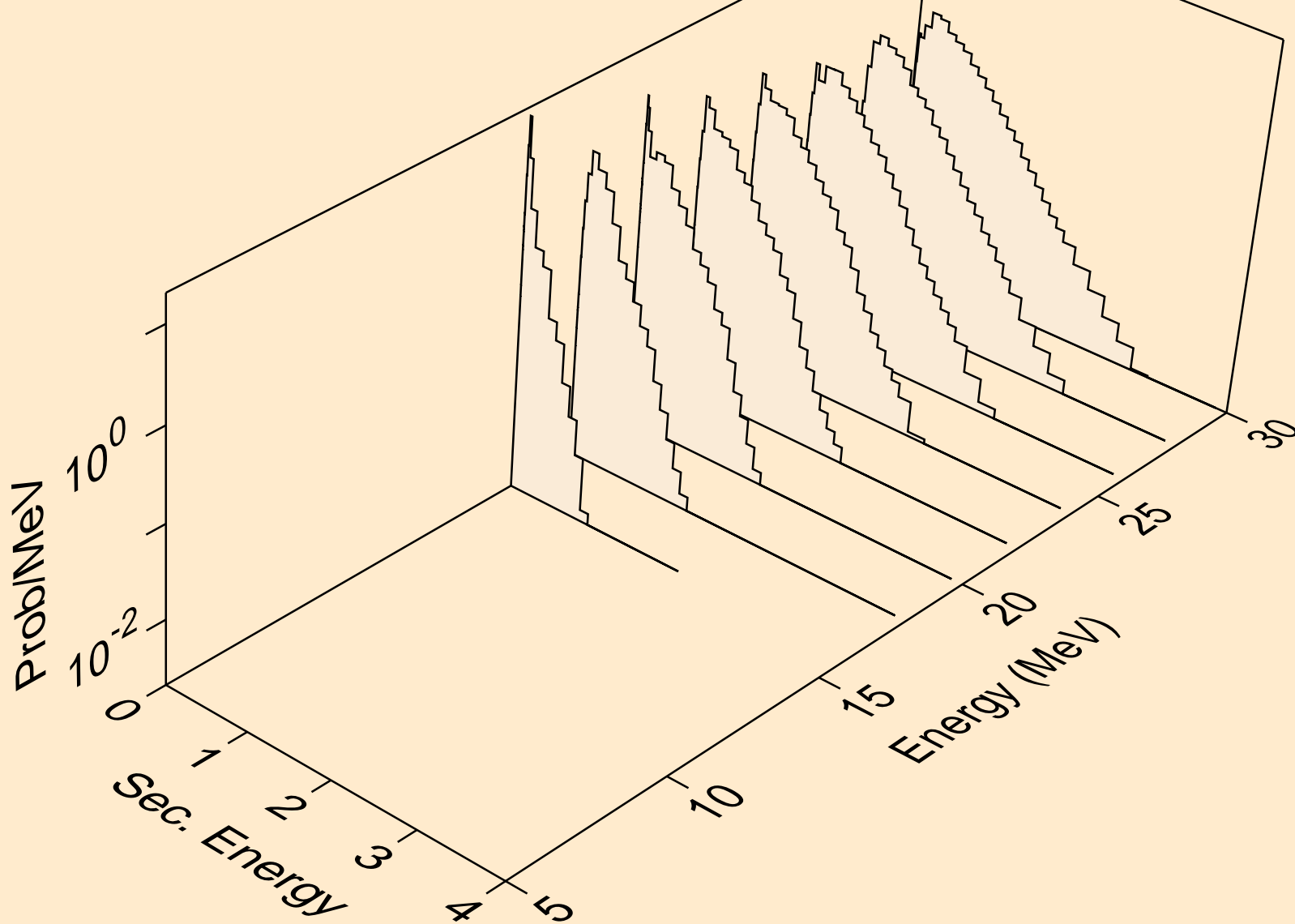
HF173 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,n\*)d



HF173 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,n\*)t

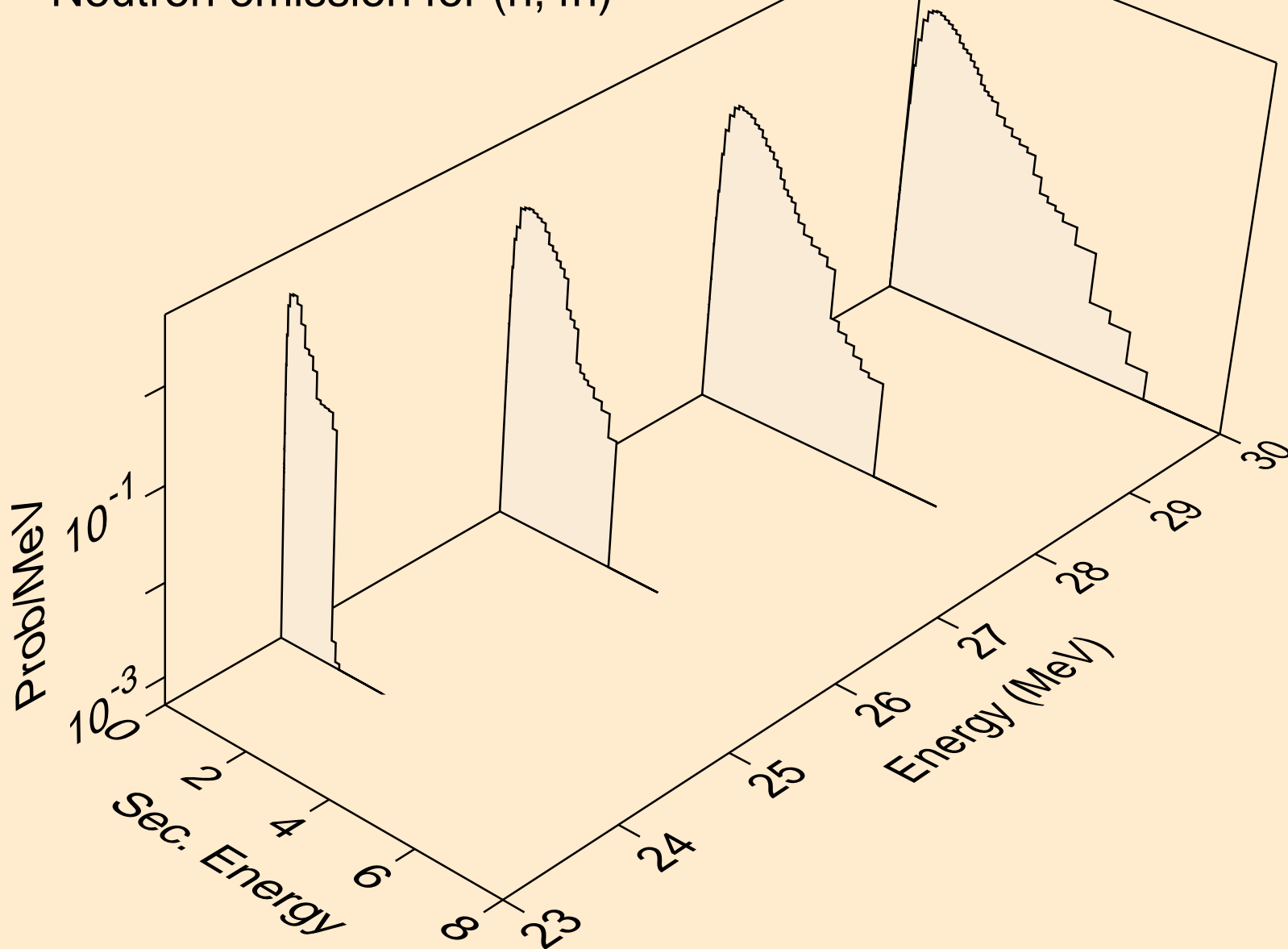


HF173 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,n\*)he3

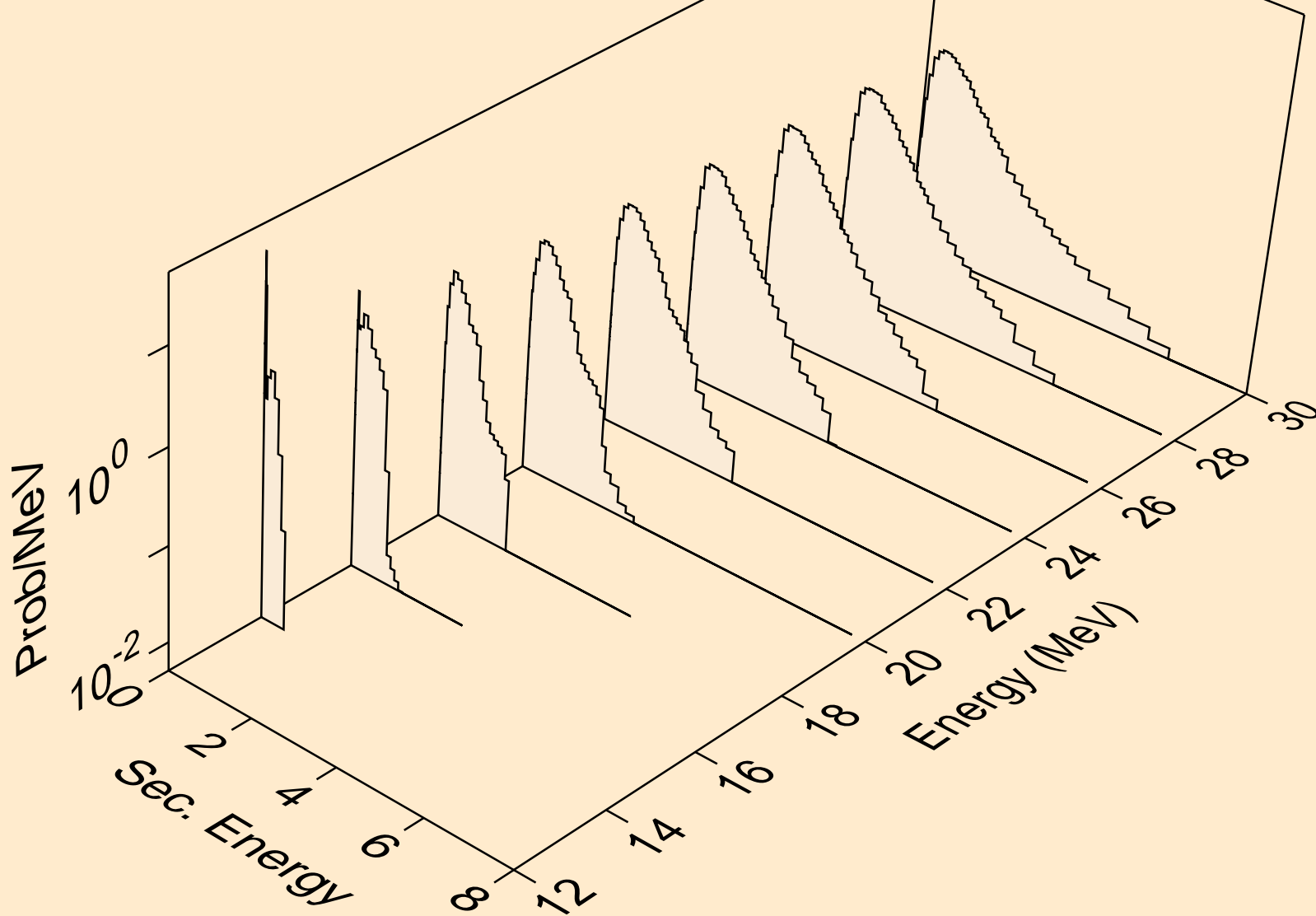




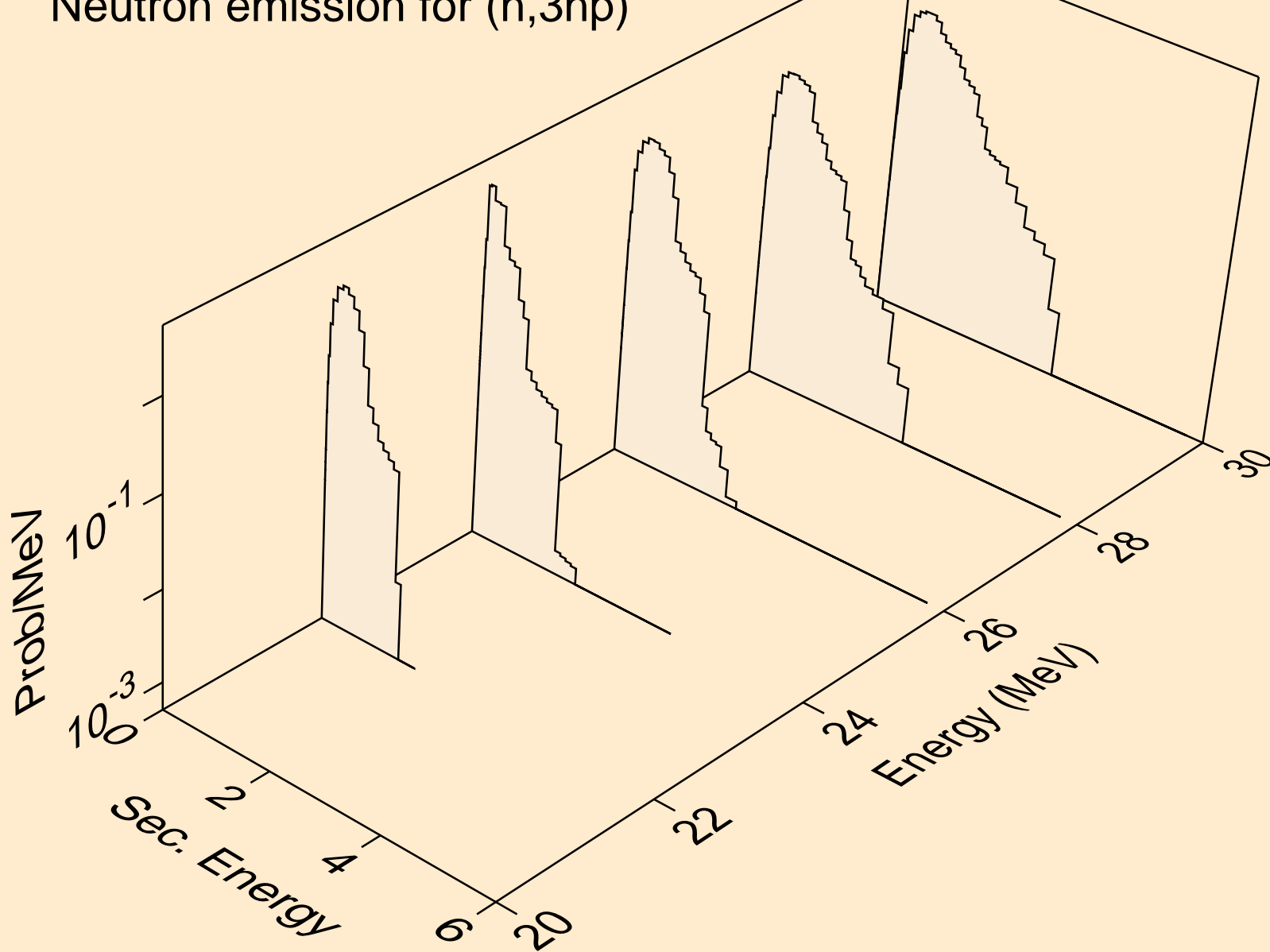
HF173 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,4n)



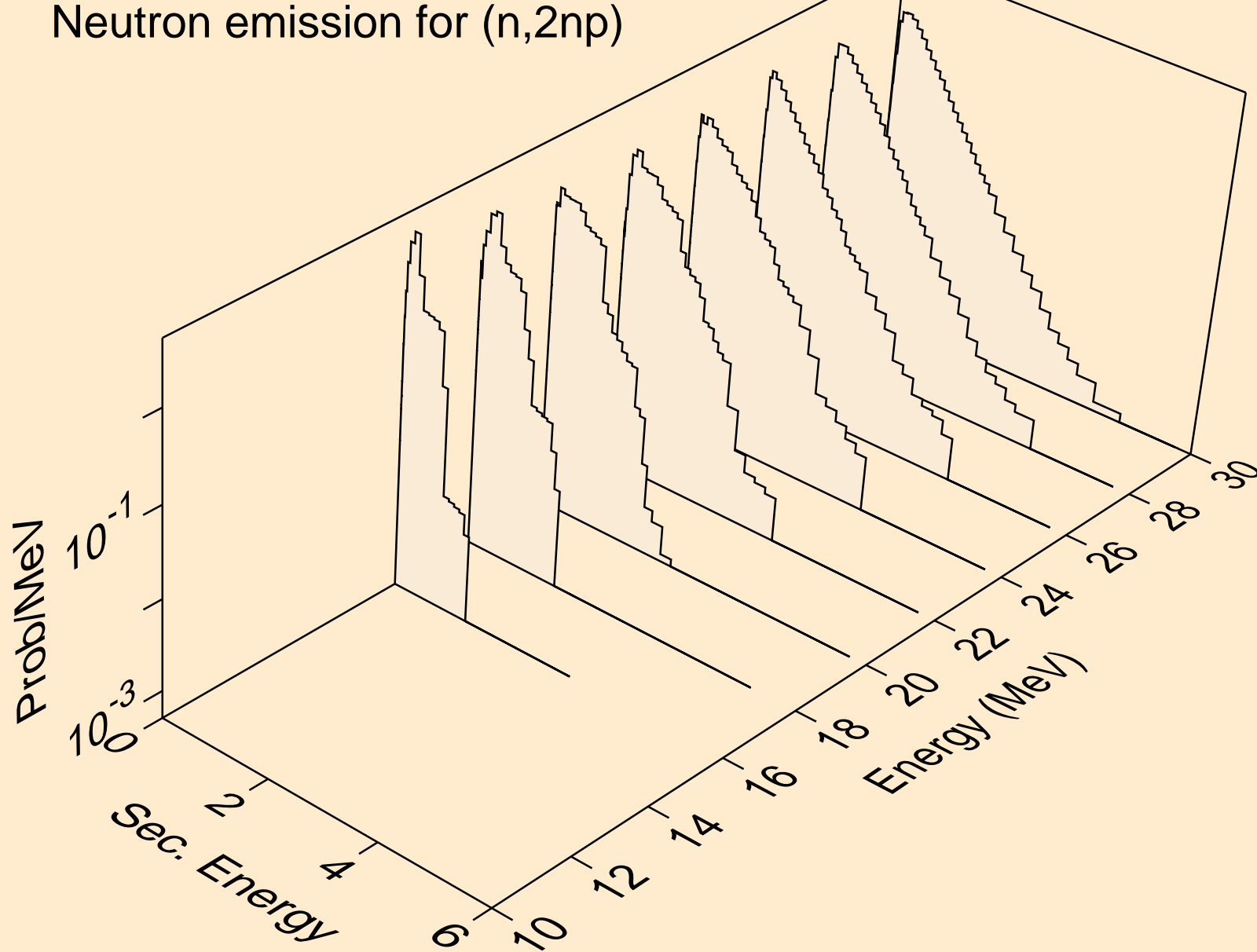
HF173 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,2np)



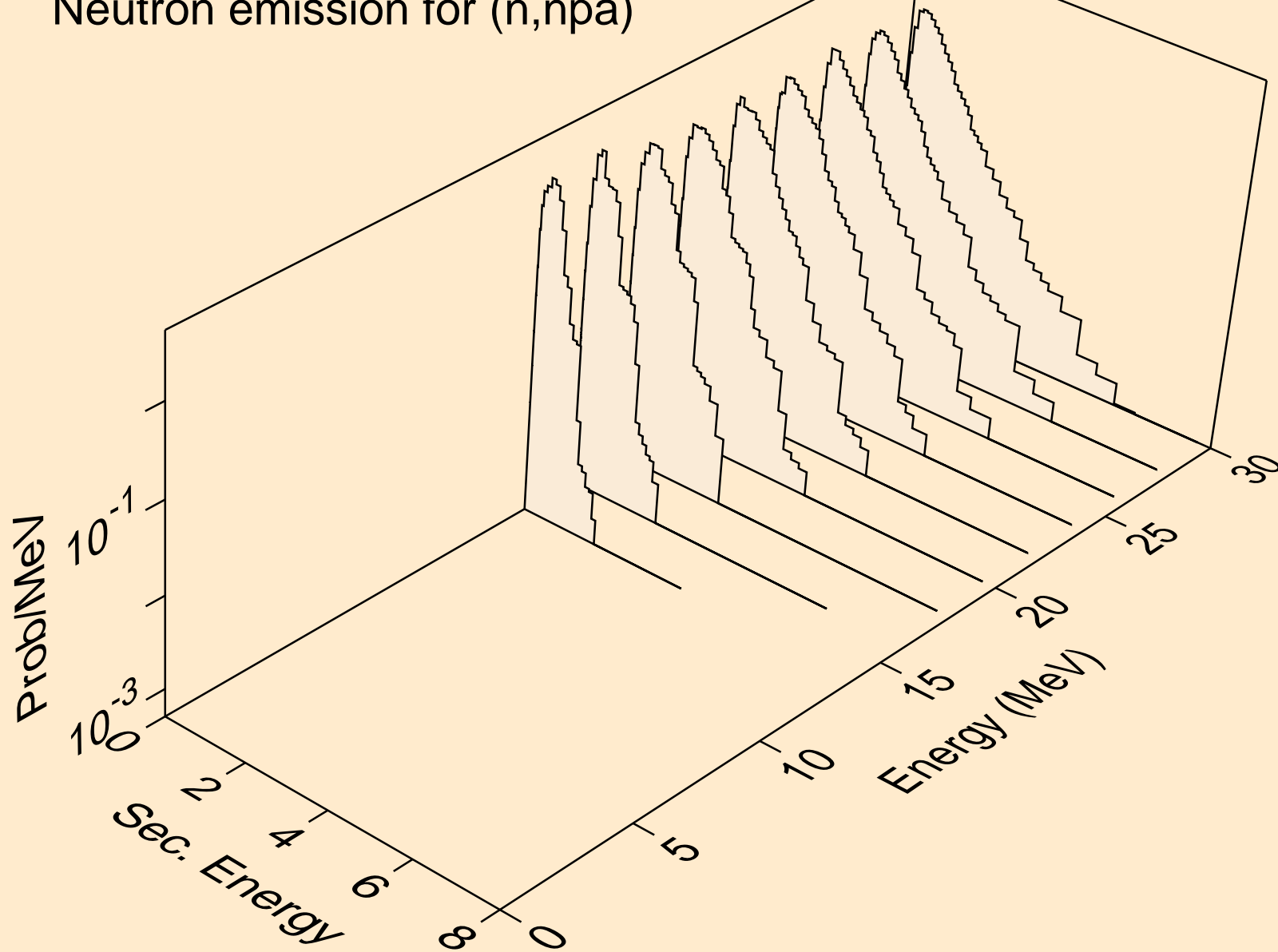
HF173 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,3np)



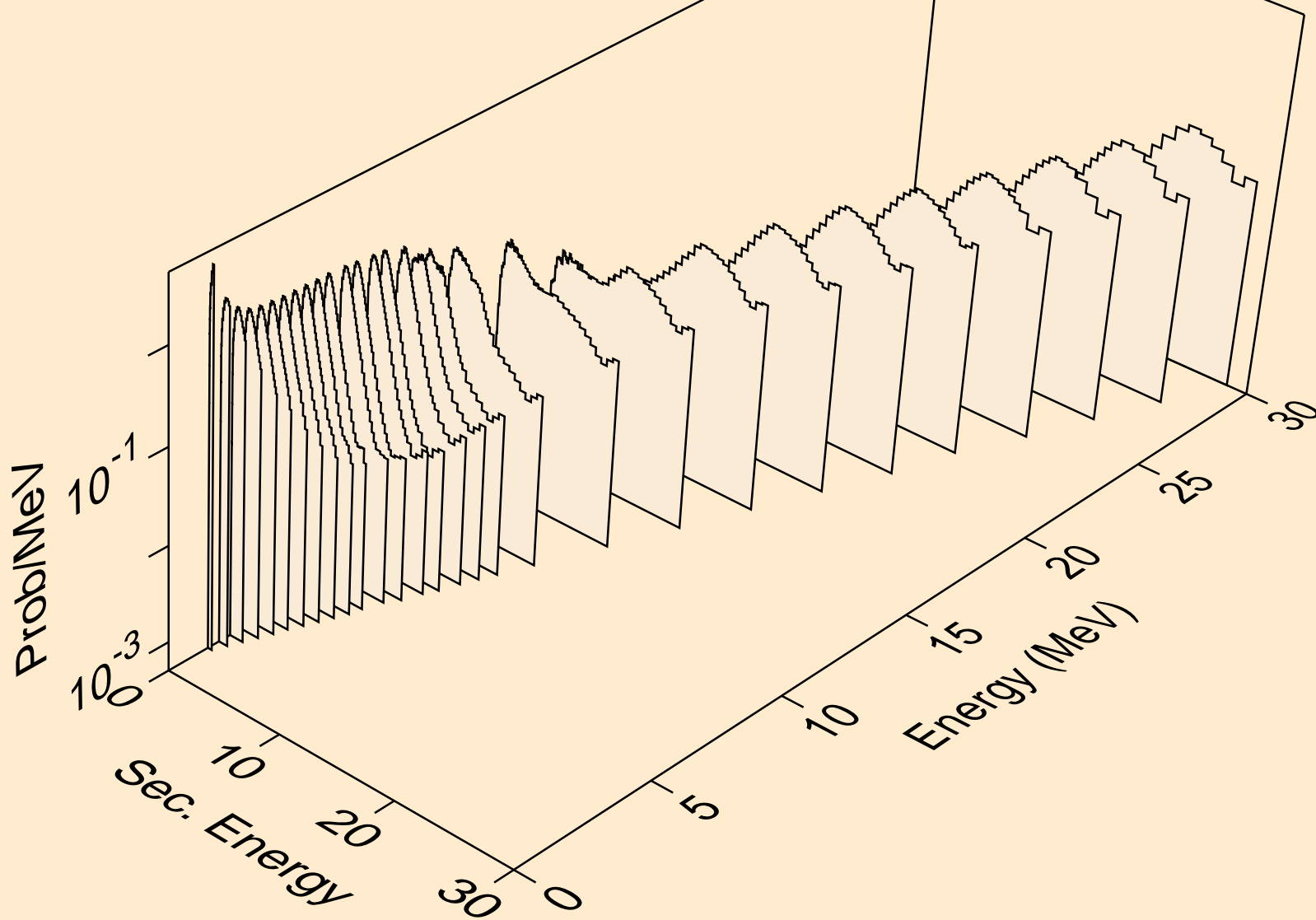
HF173 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,2np)



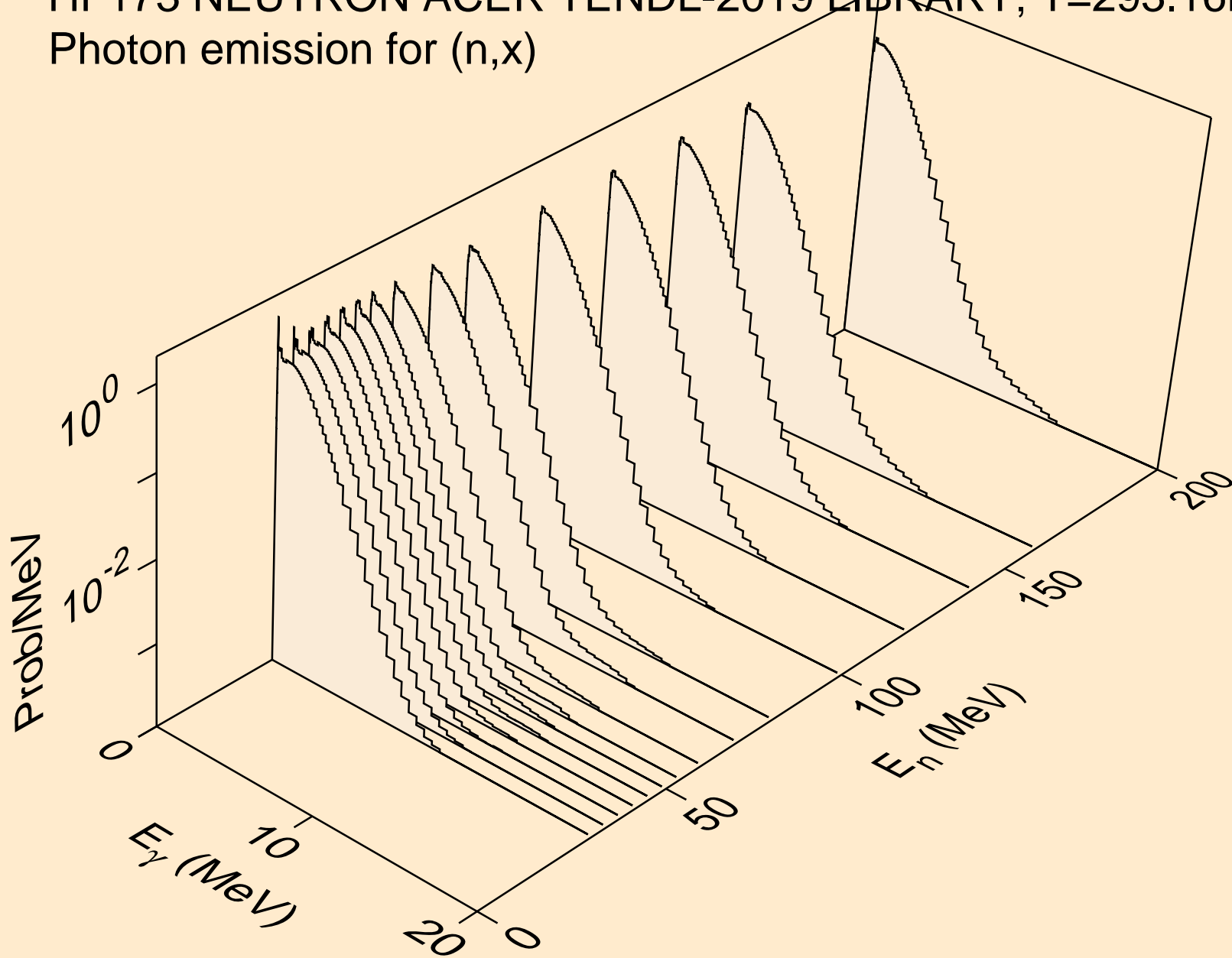
HF173 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,npa)



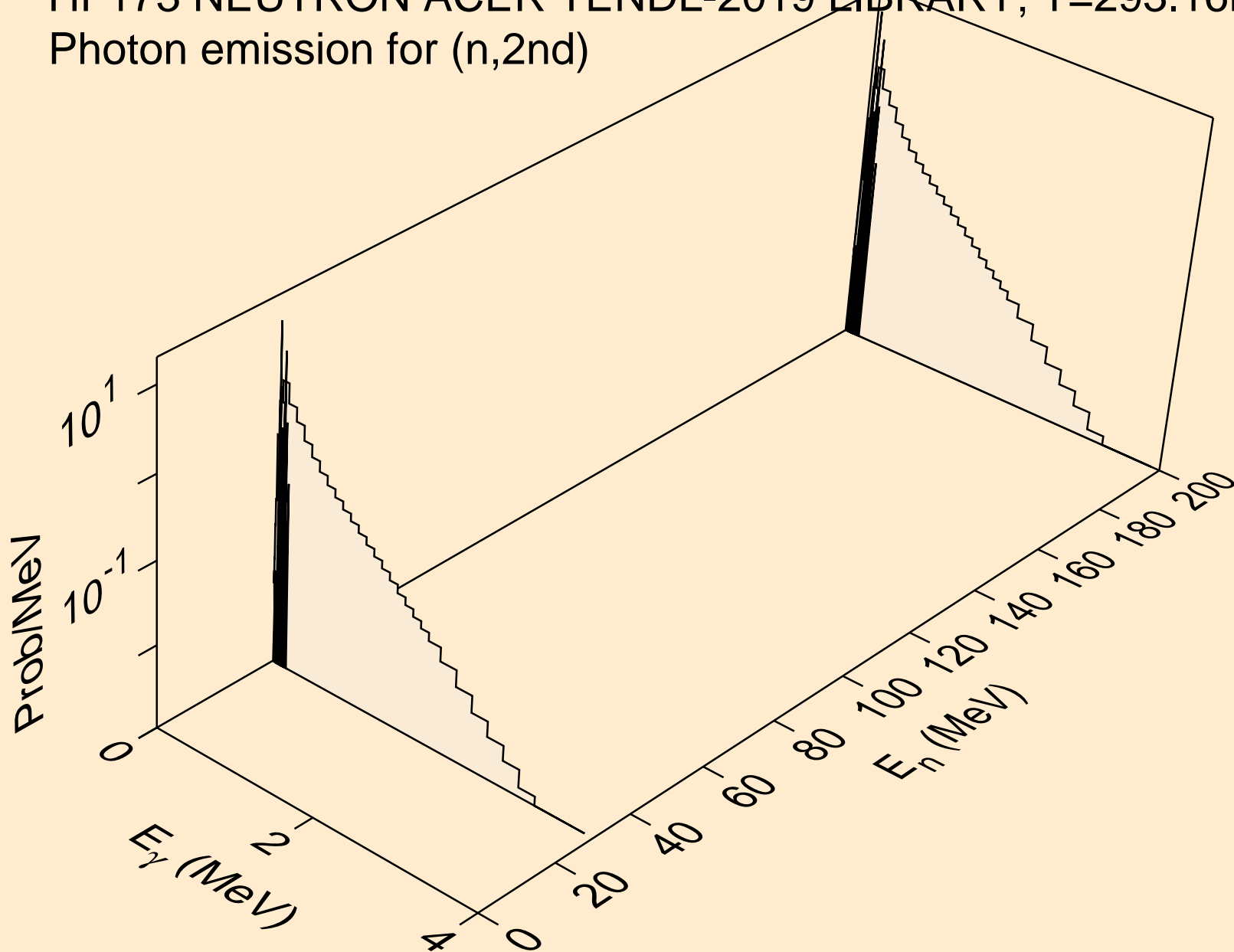
HF173 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,n\*c)



HF173 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,x)

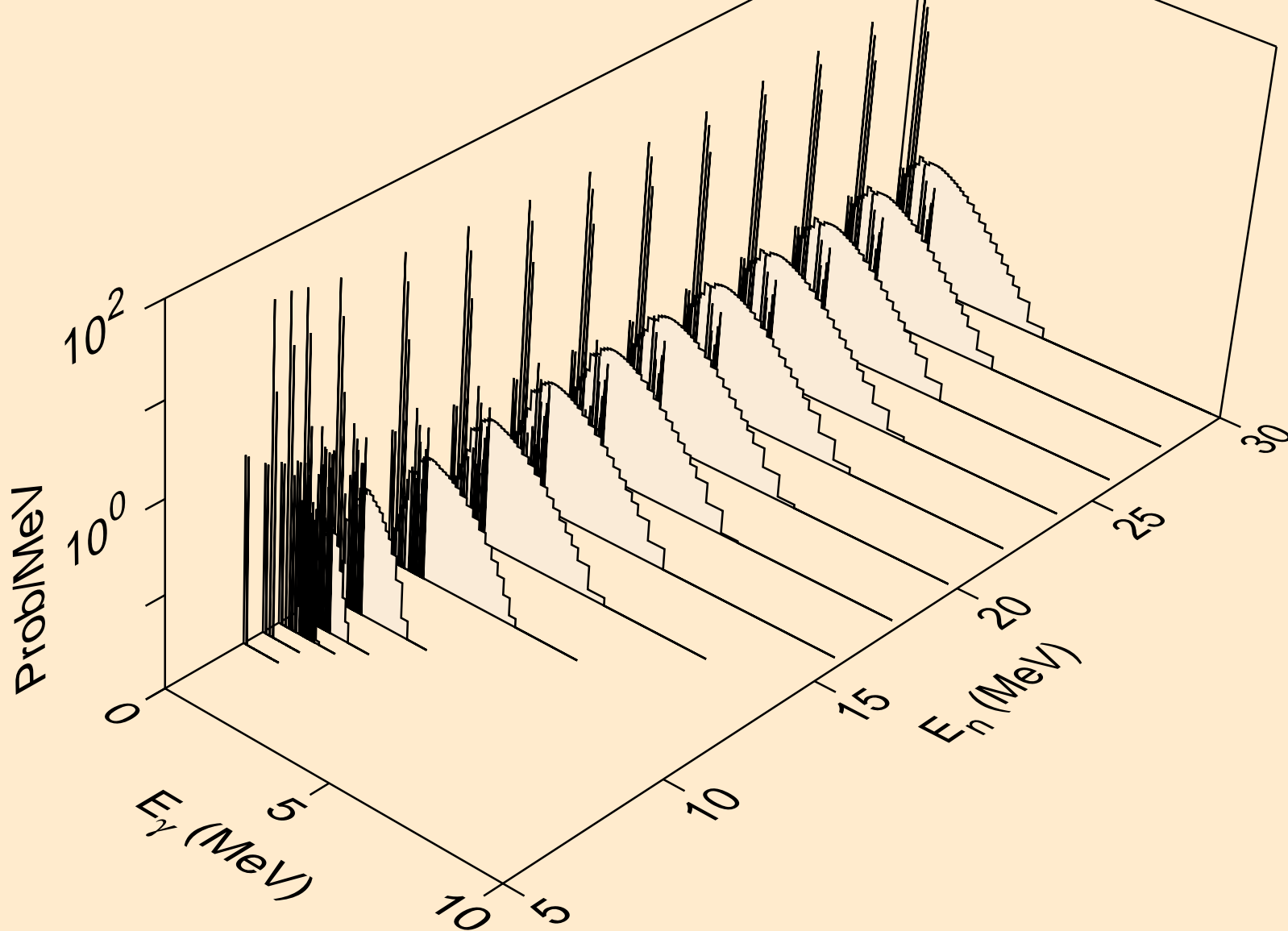


HF173 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,2nd)

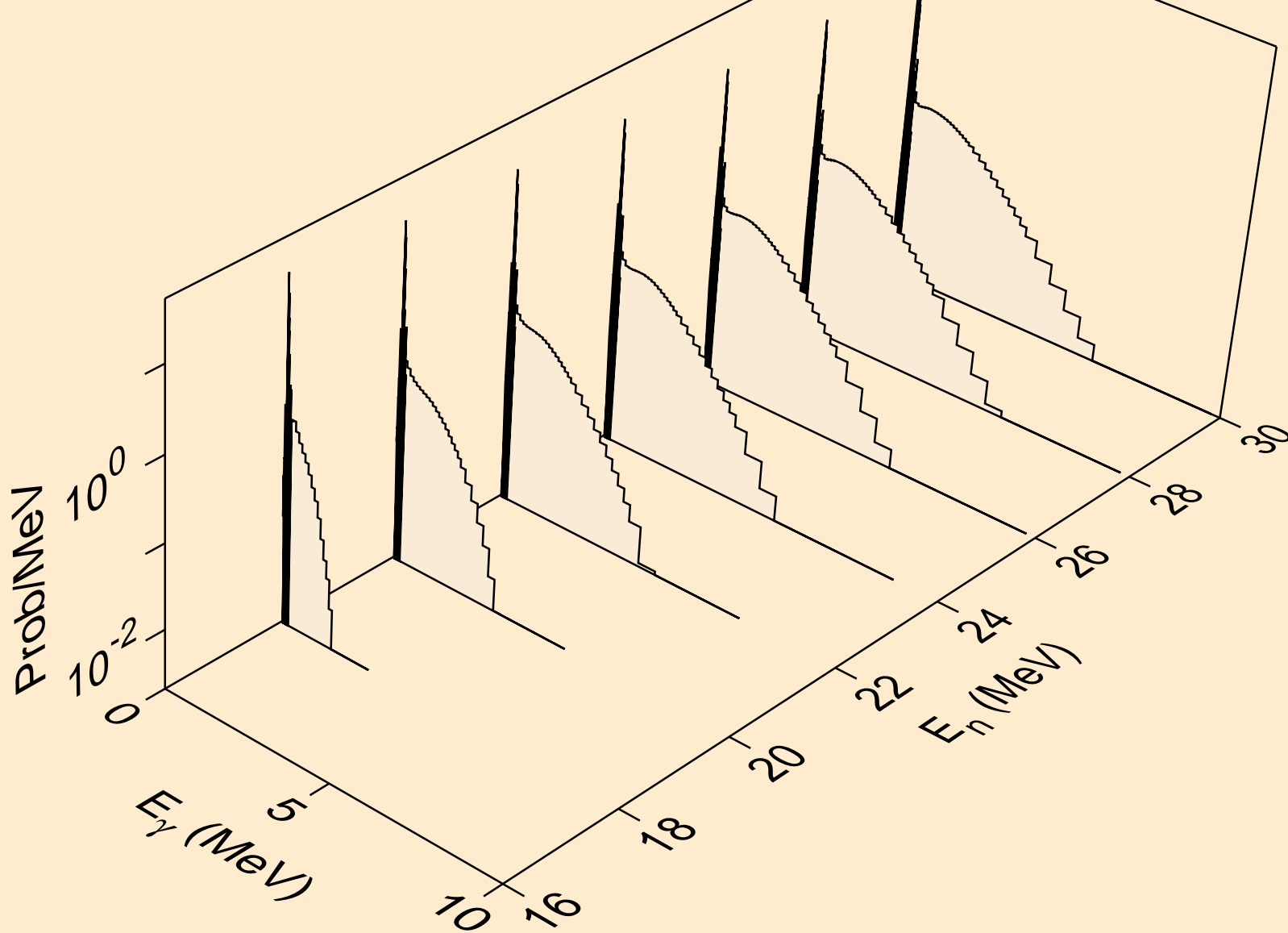




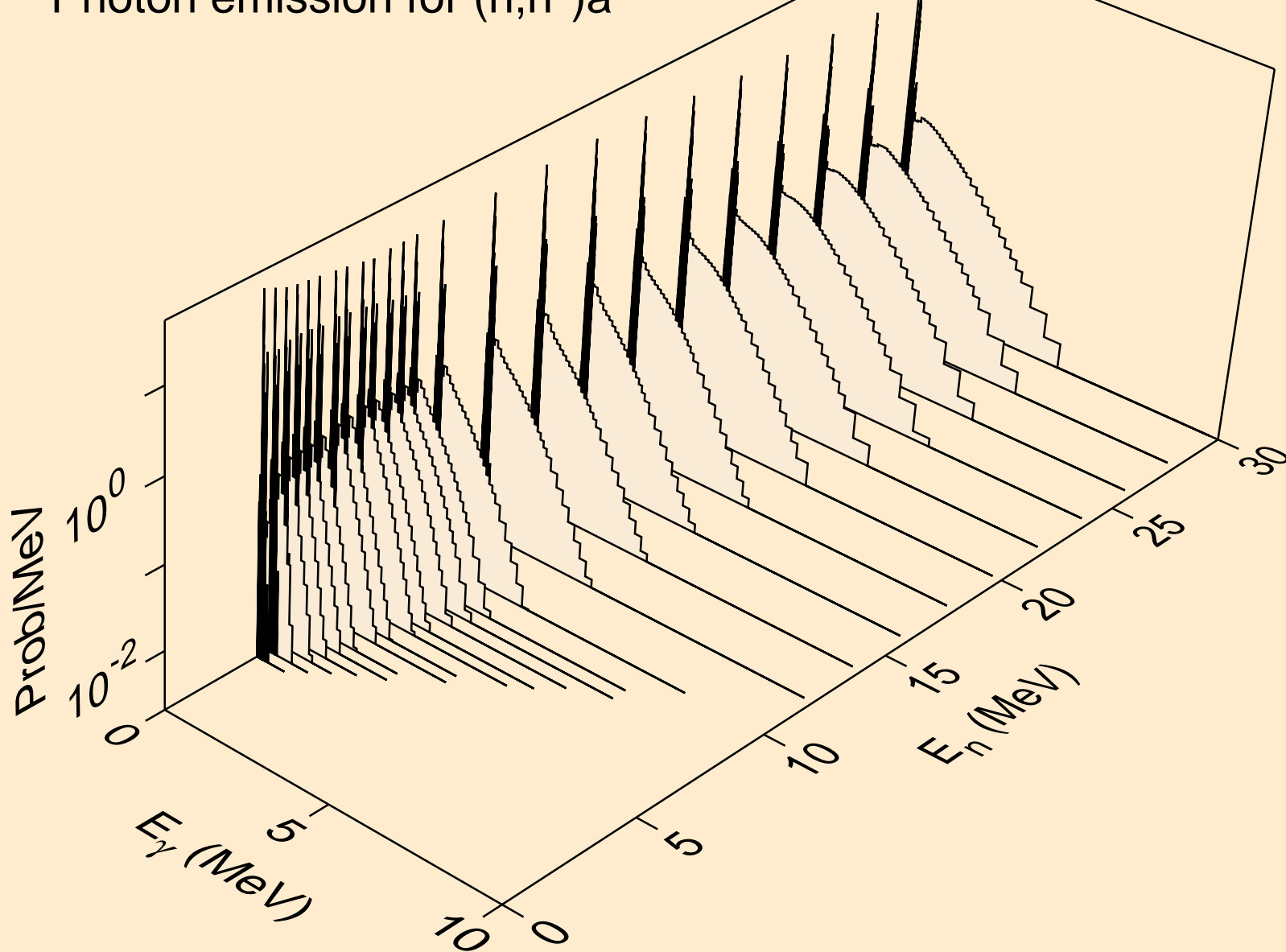
HF173 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,2n)



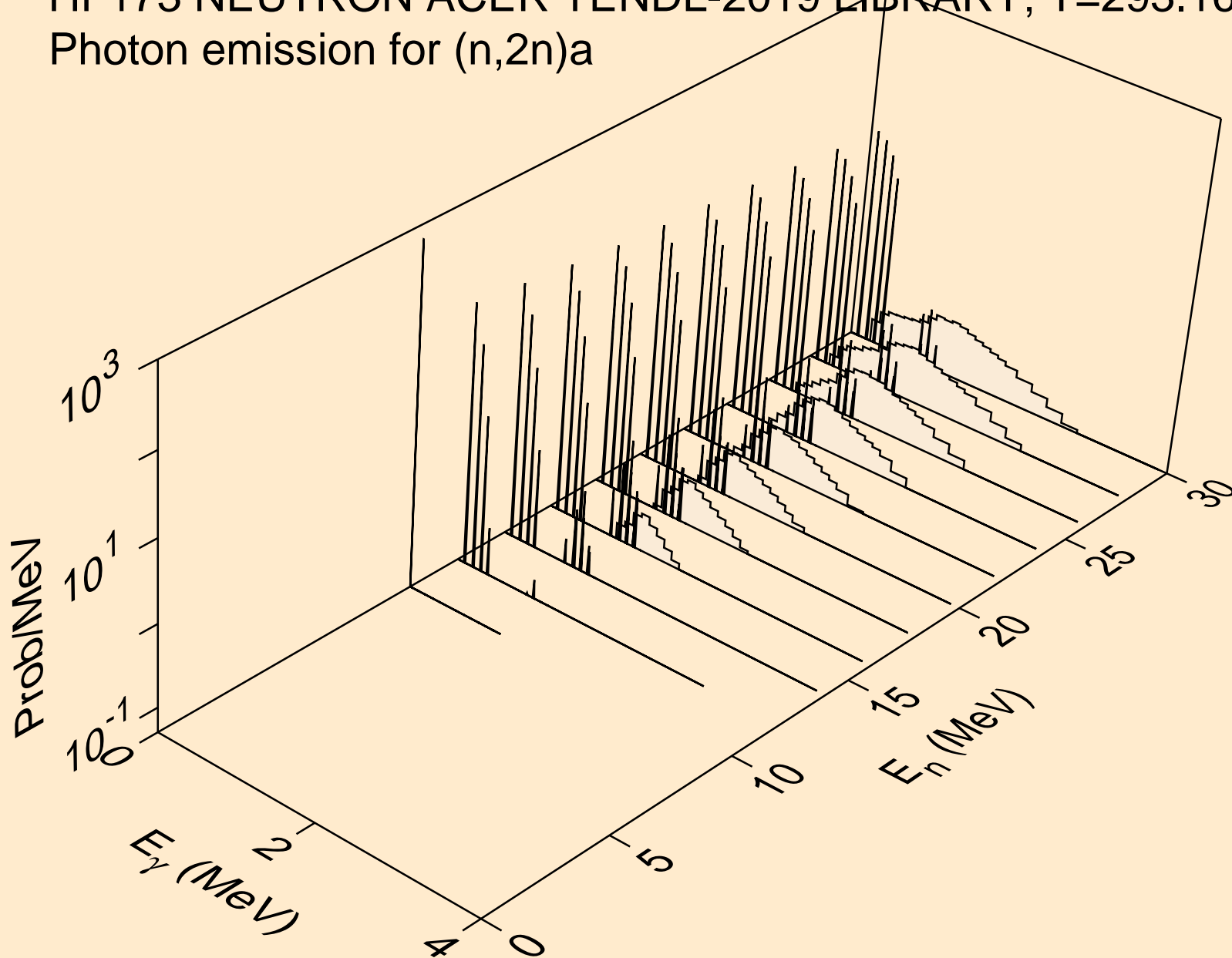
HF173 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,3n)



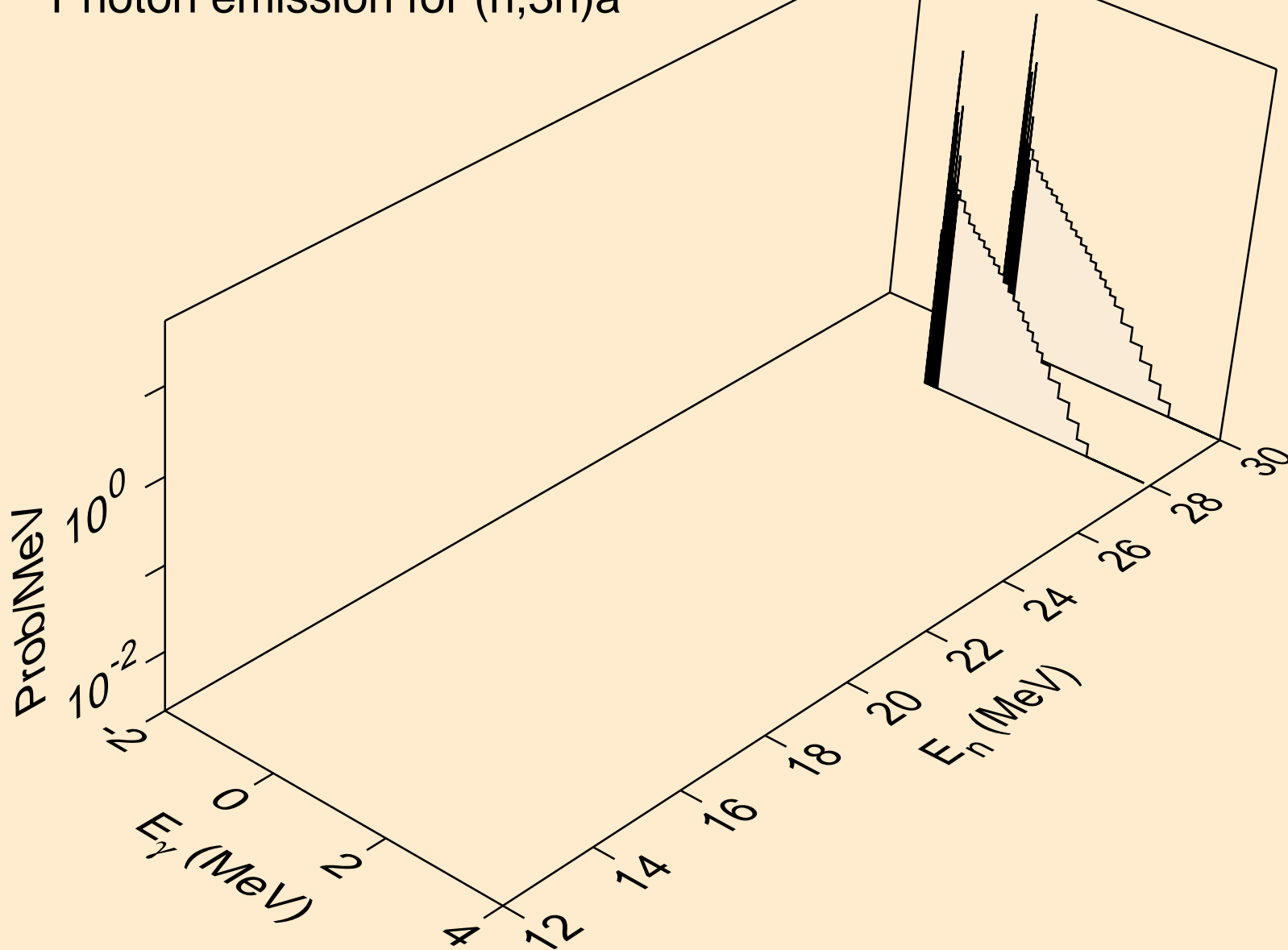
HF173 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,n\*)a



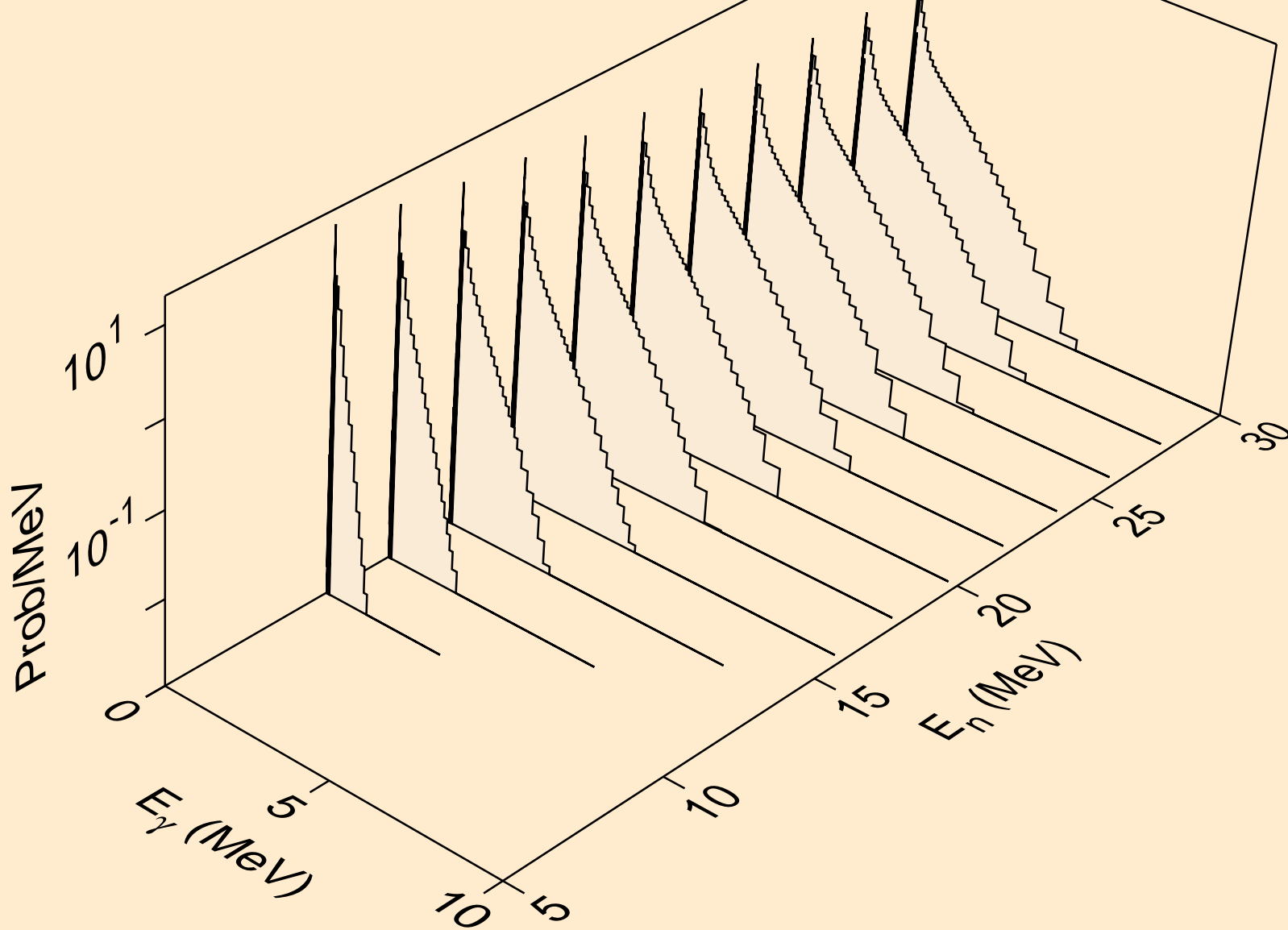
HF173 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,2n)a



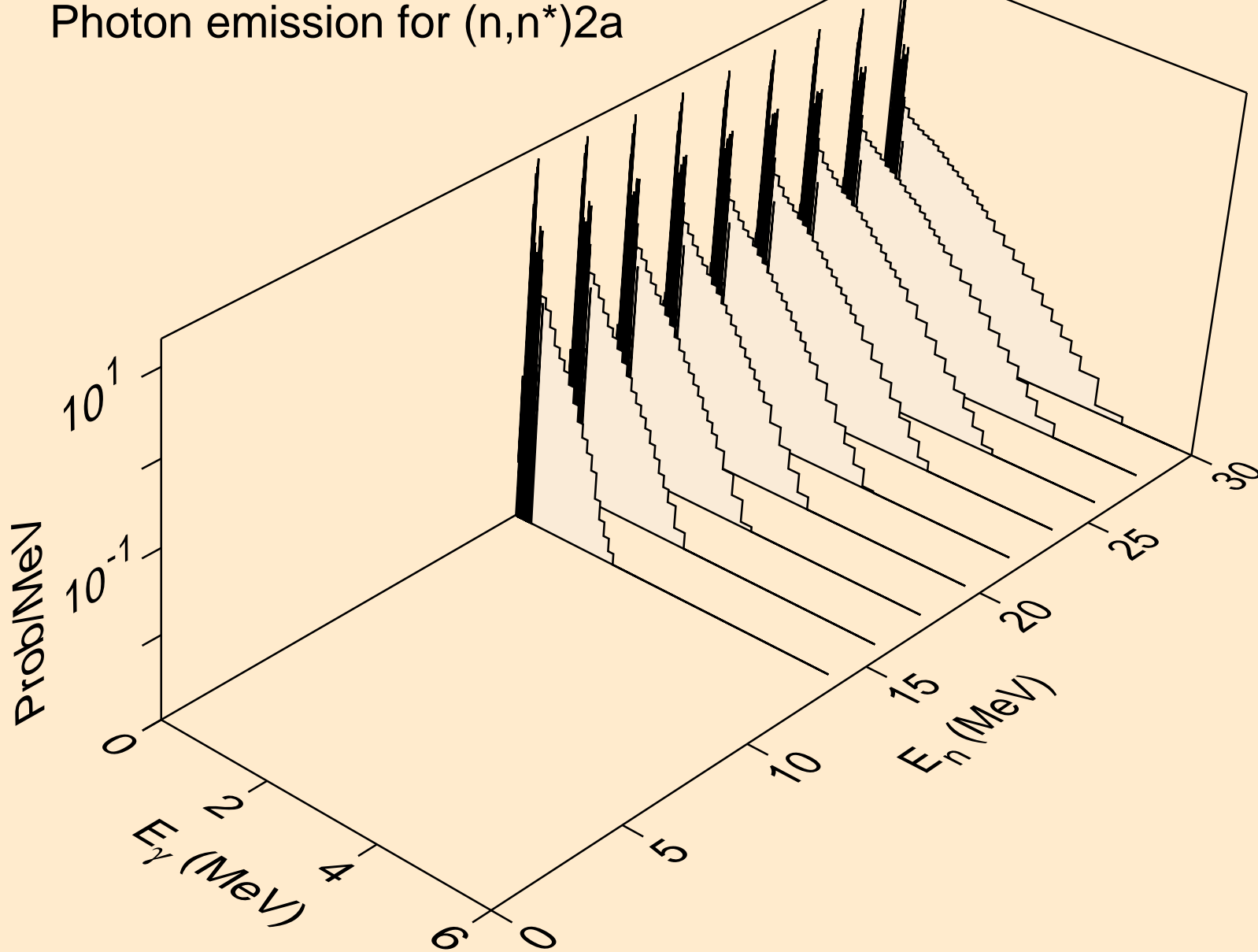
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Photon emission for (n,3n)a



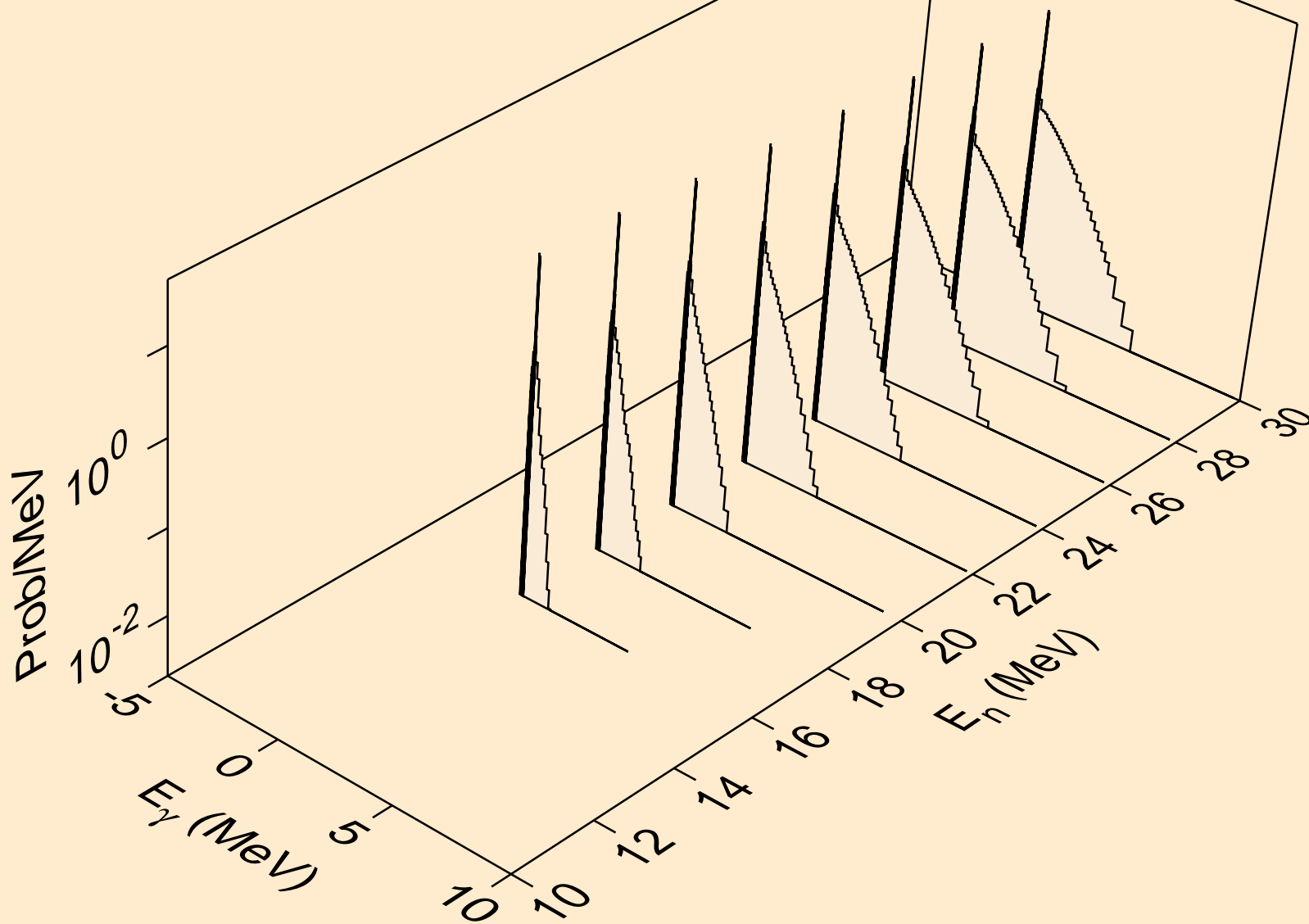
HF173 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,n\*)p



HF173 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,n\*)2a

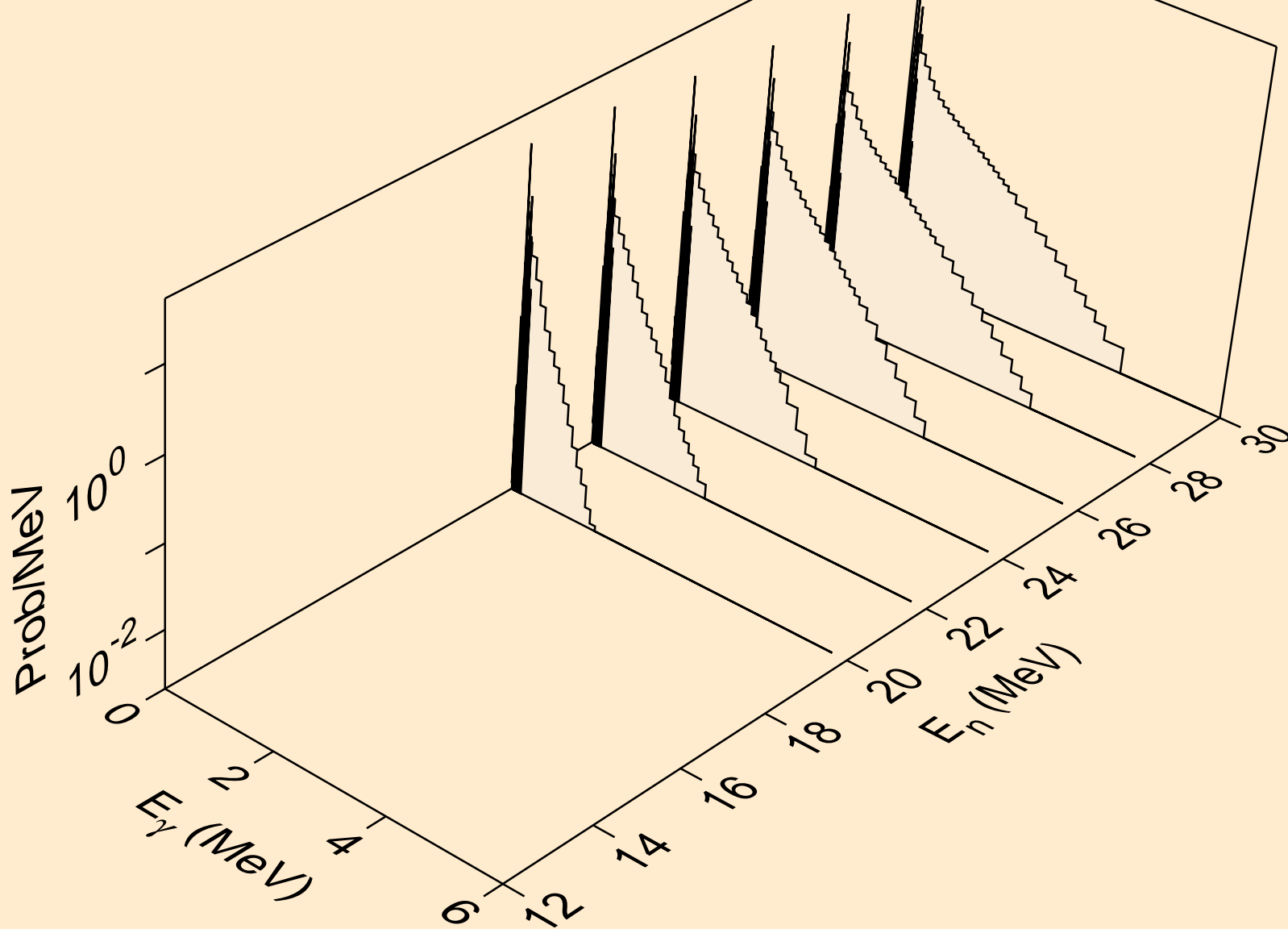


HF173 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,n\*)d

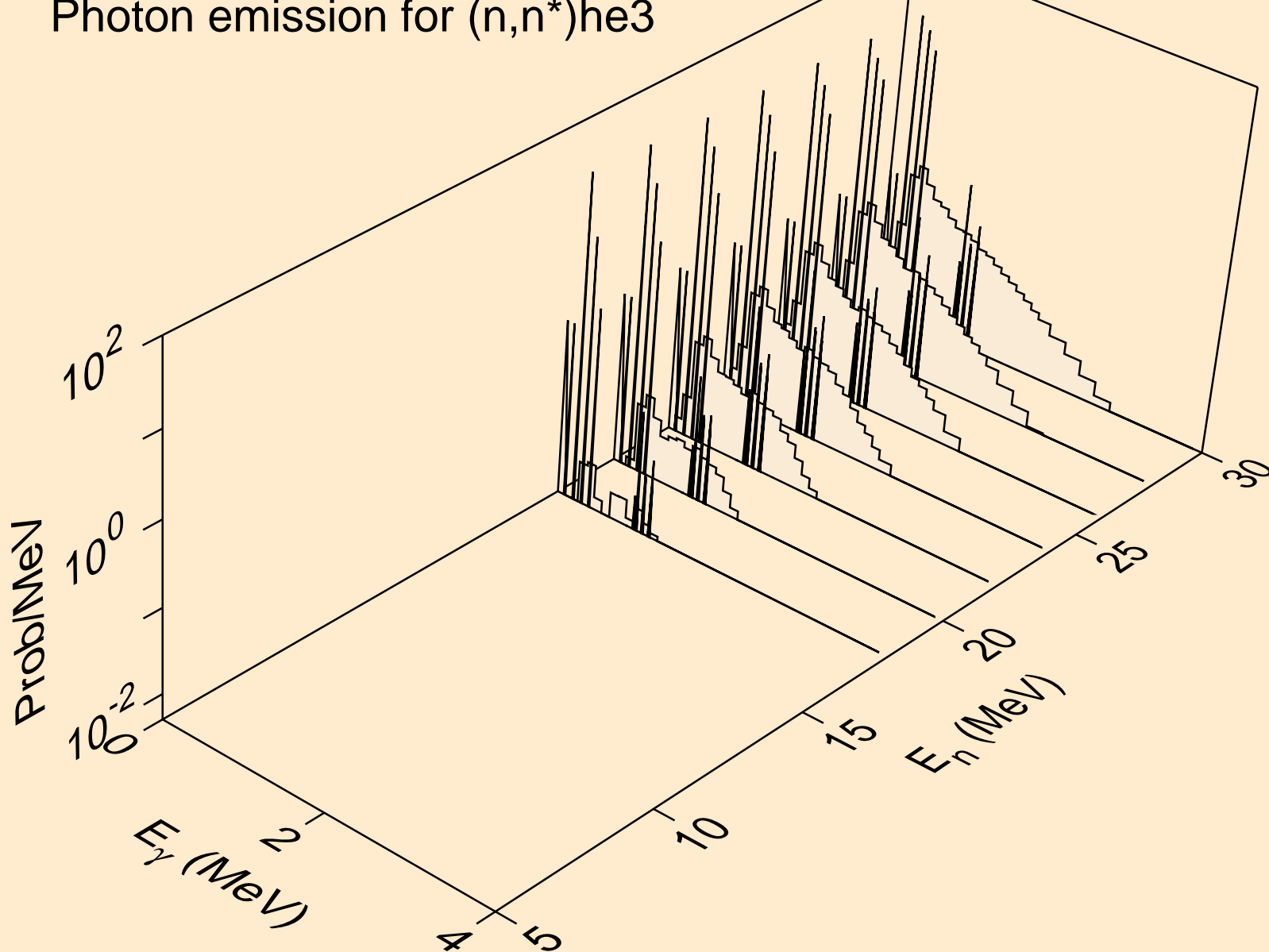




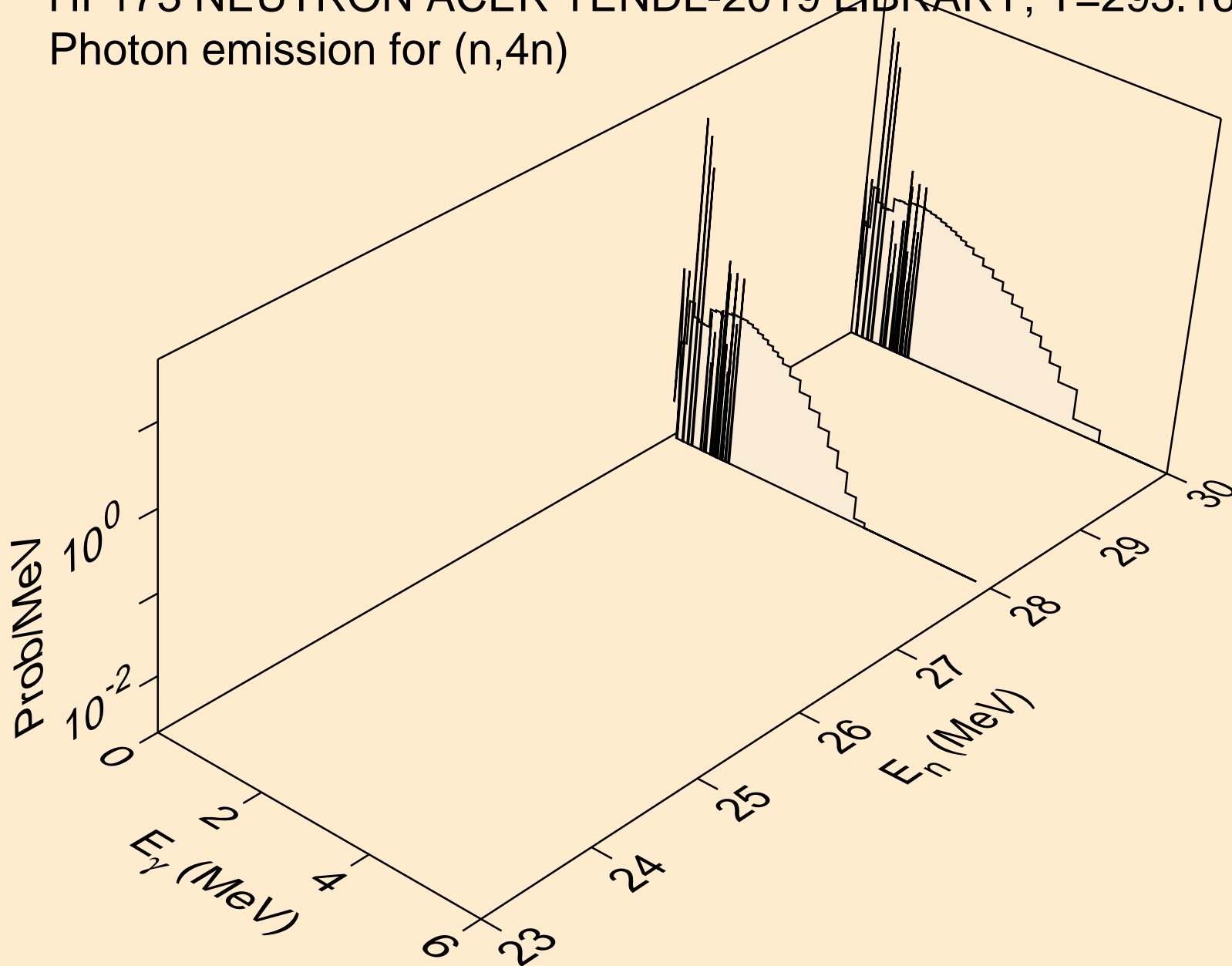
HF173 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,n\*)t



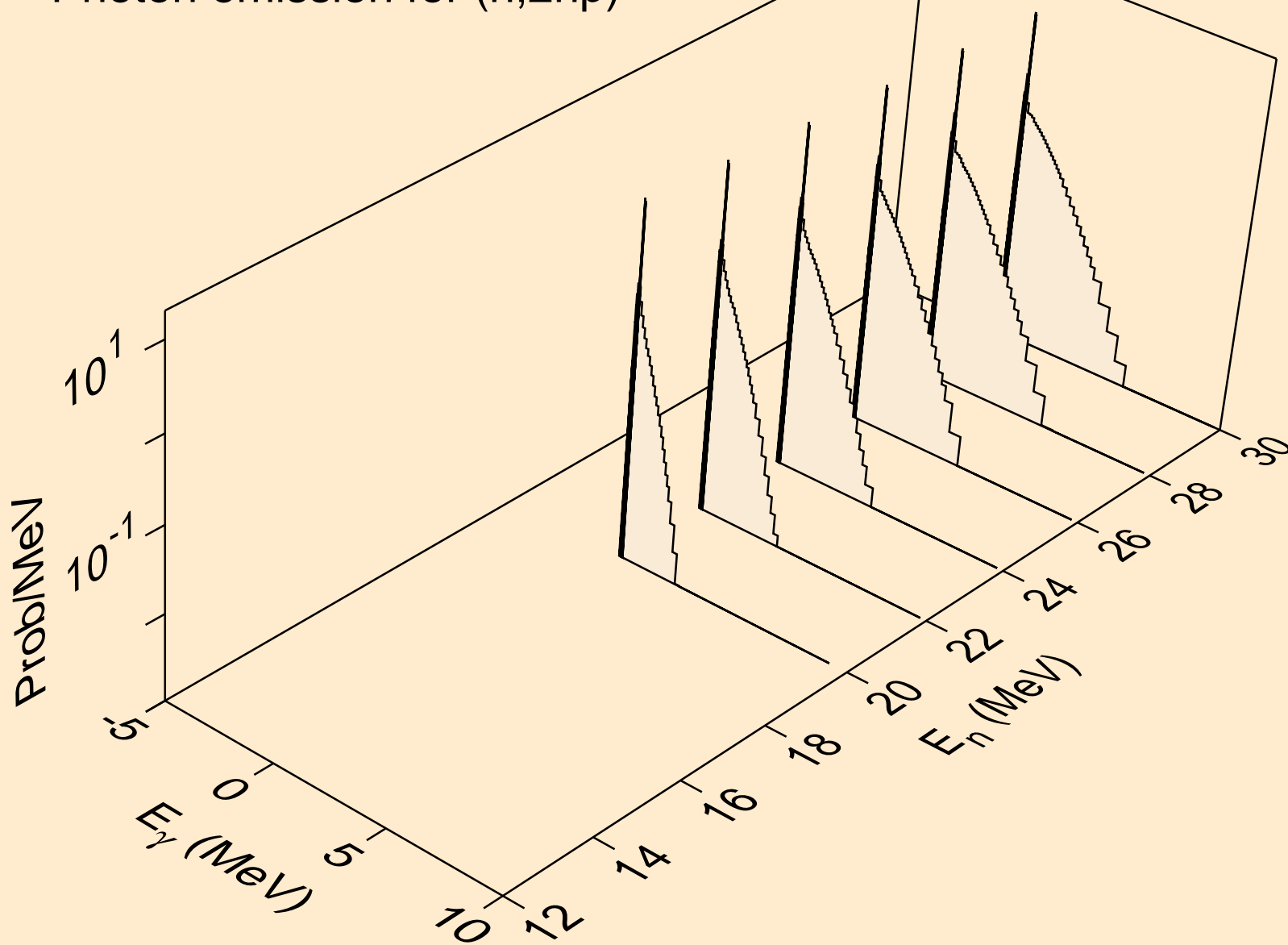
HF173 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,n\*)he3



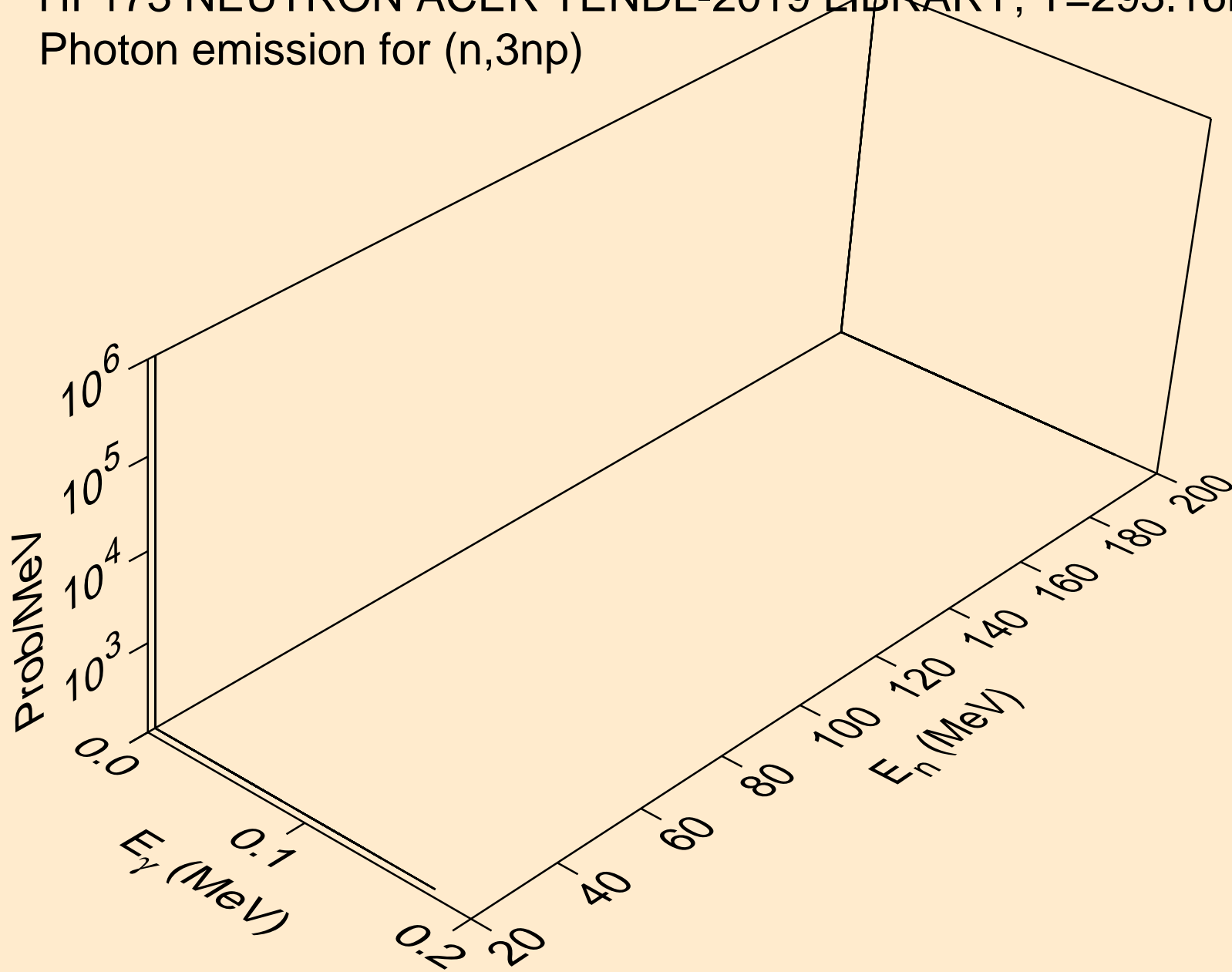
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Photon emission for (n,4n)



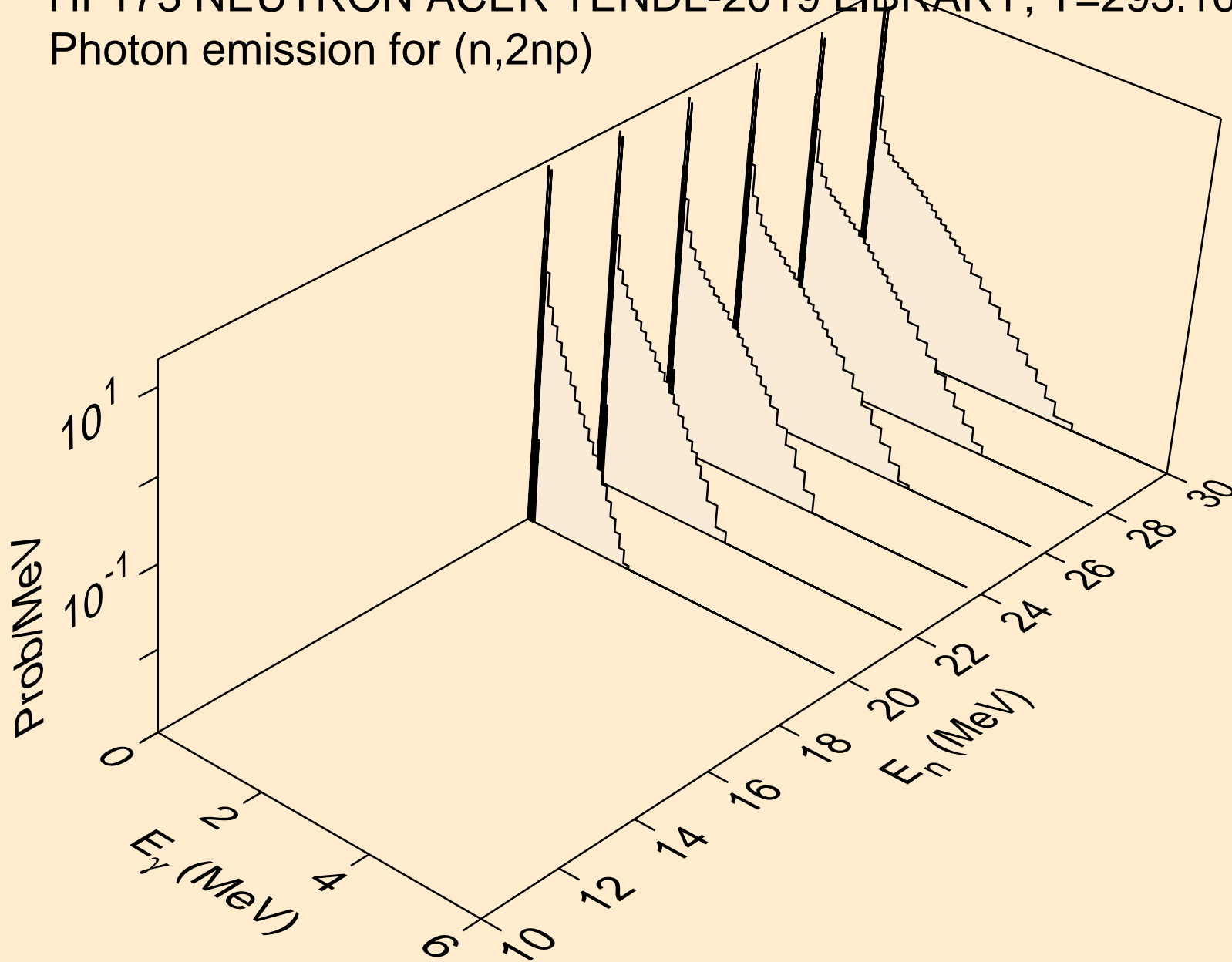
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Photon emission for (n,2np)



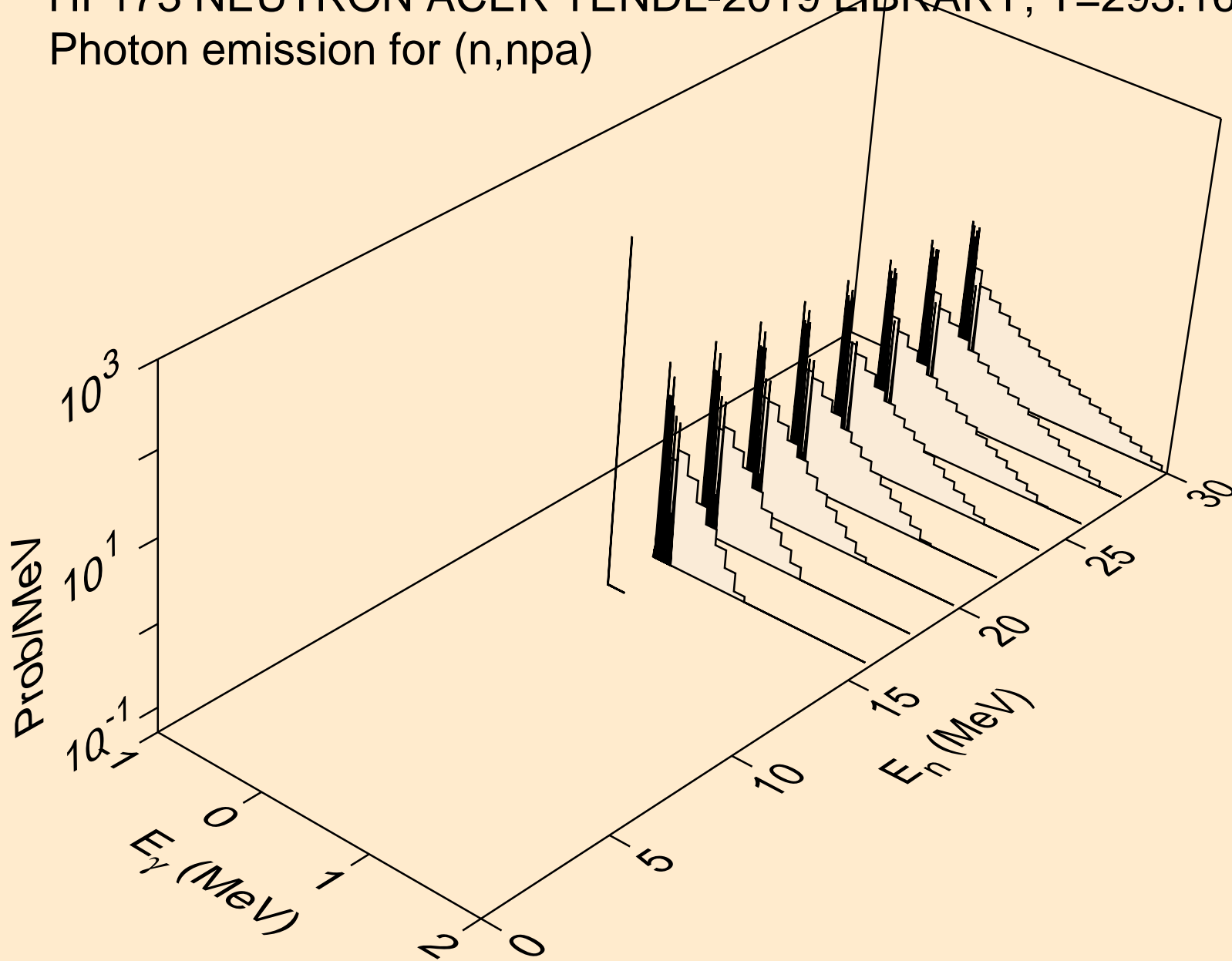
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Photon emission for (n,3np)



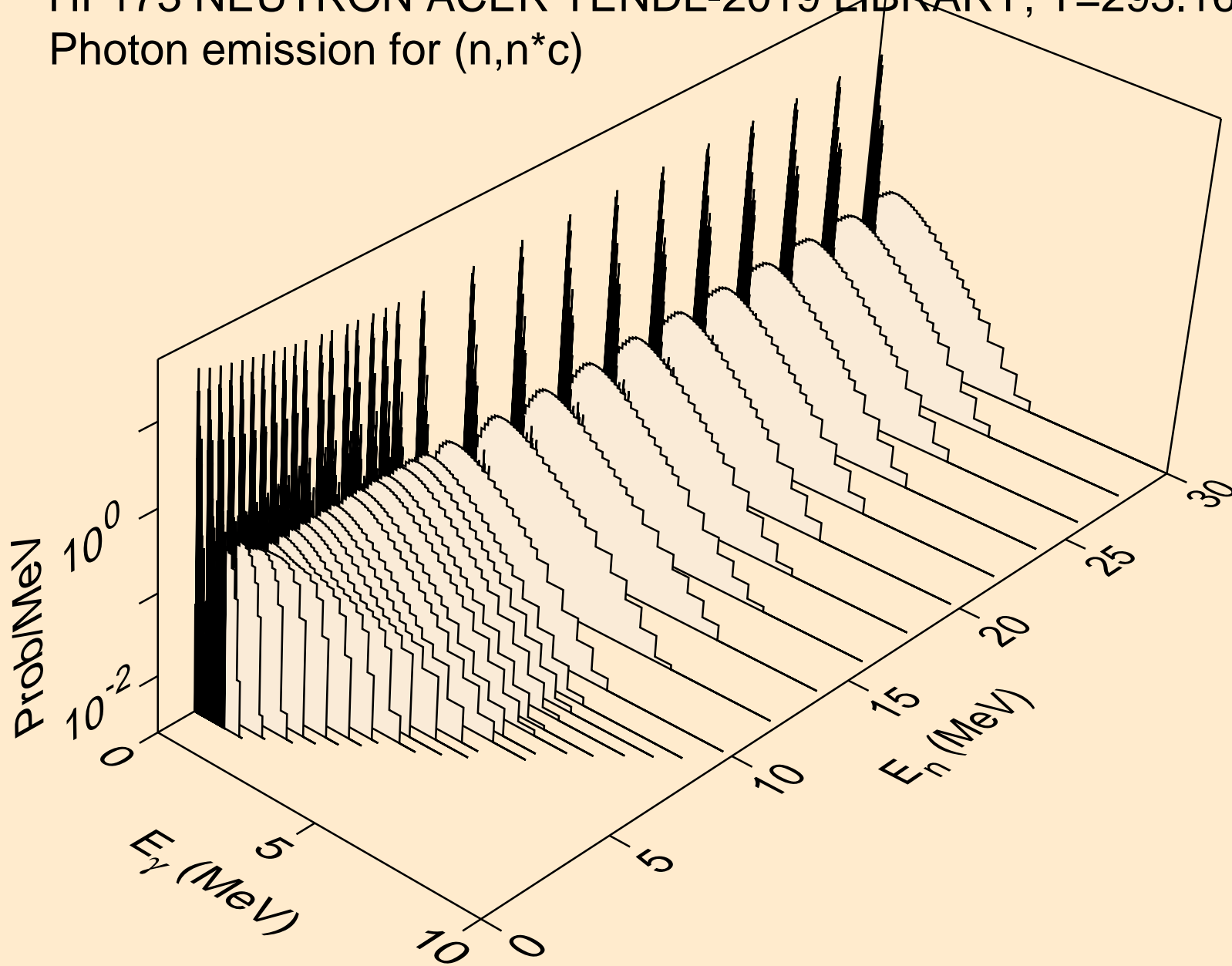
HF173 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,2np)



HF173 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,npa)

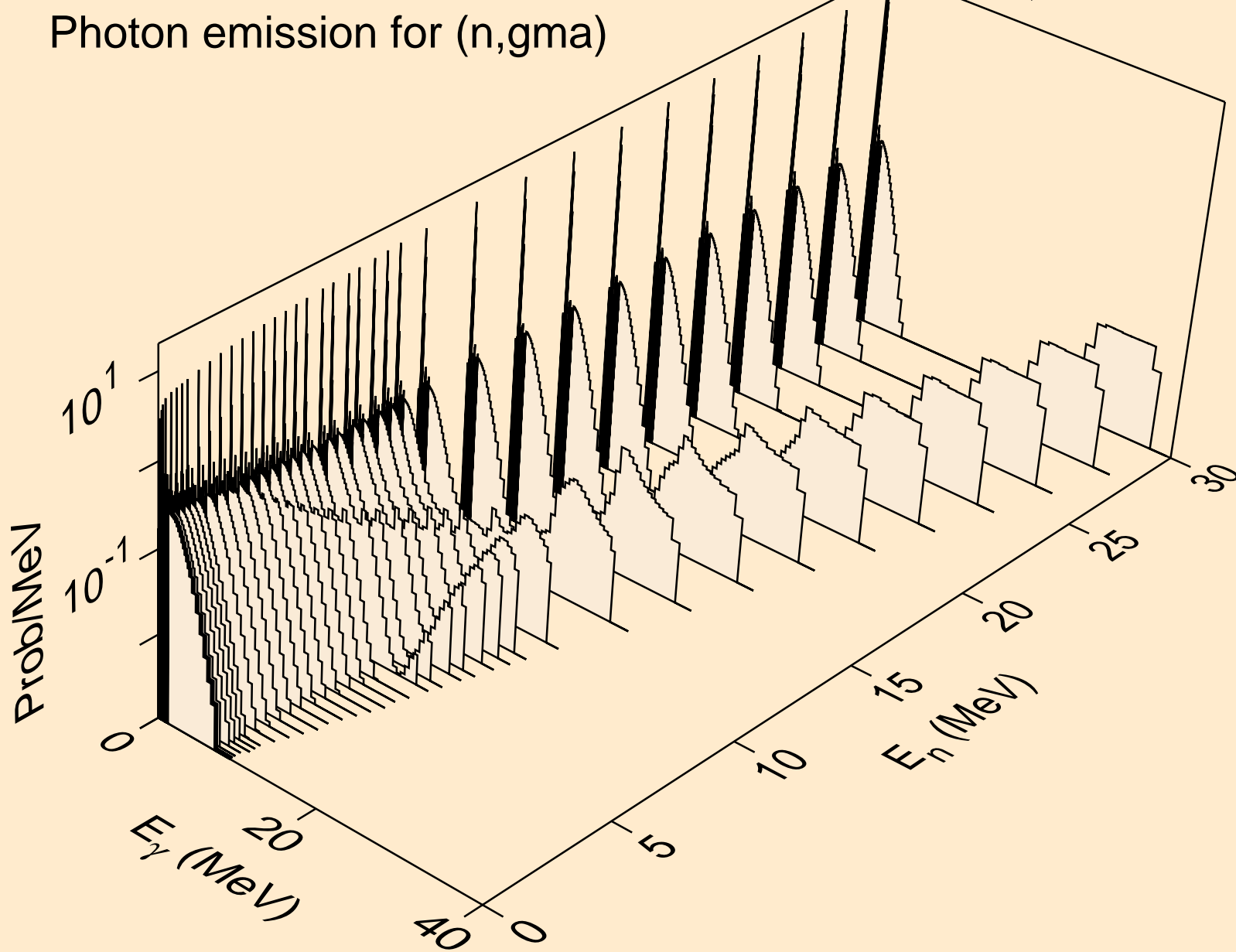


HF173 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,n\*c)

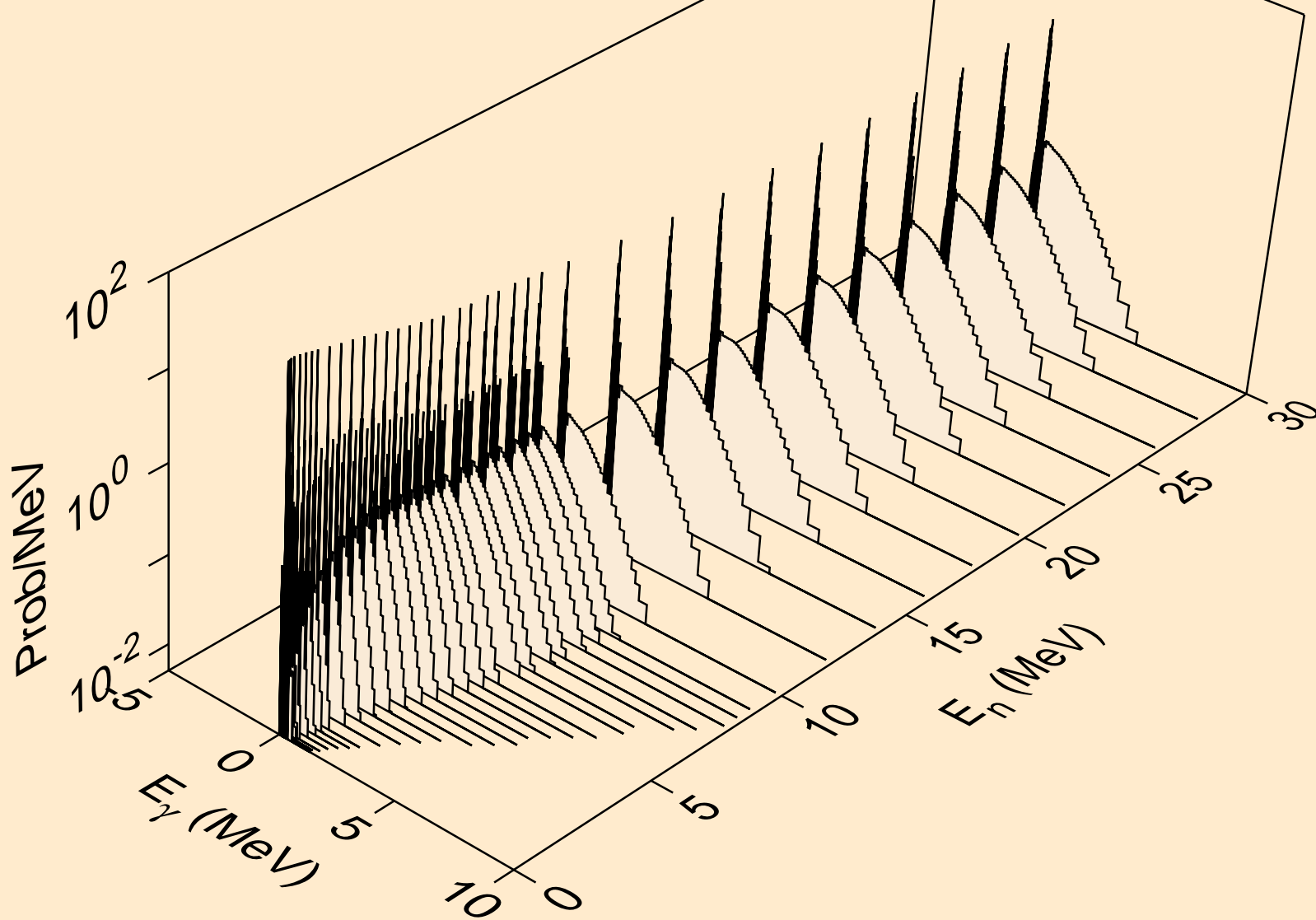




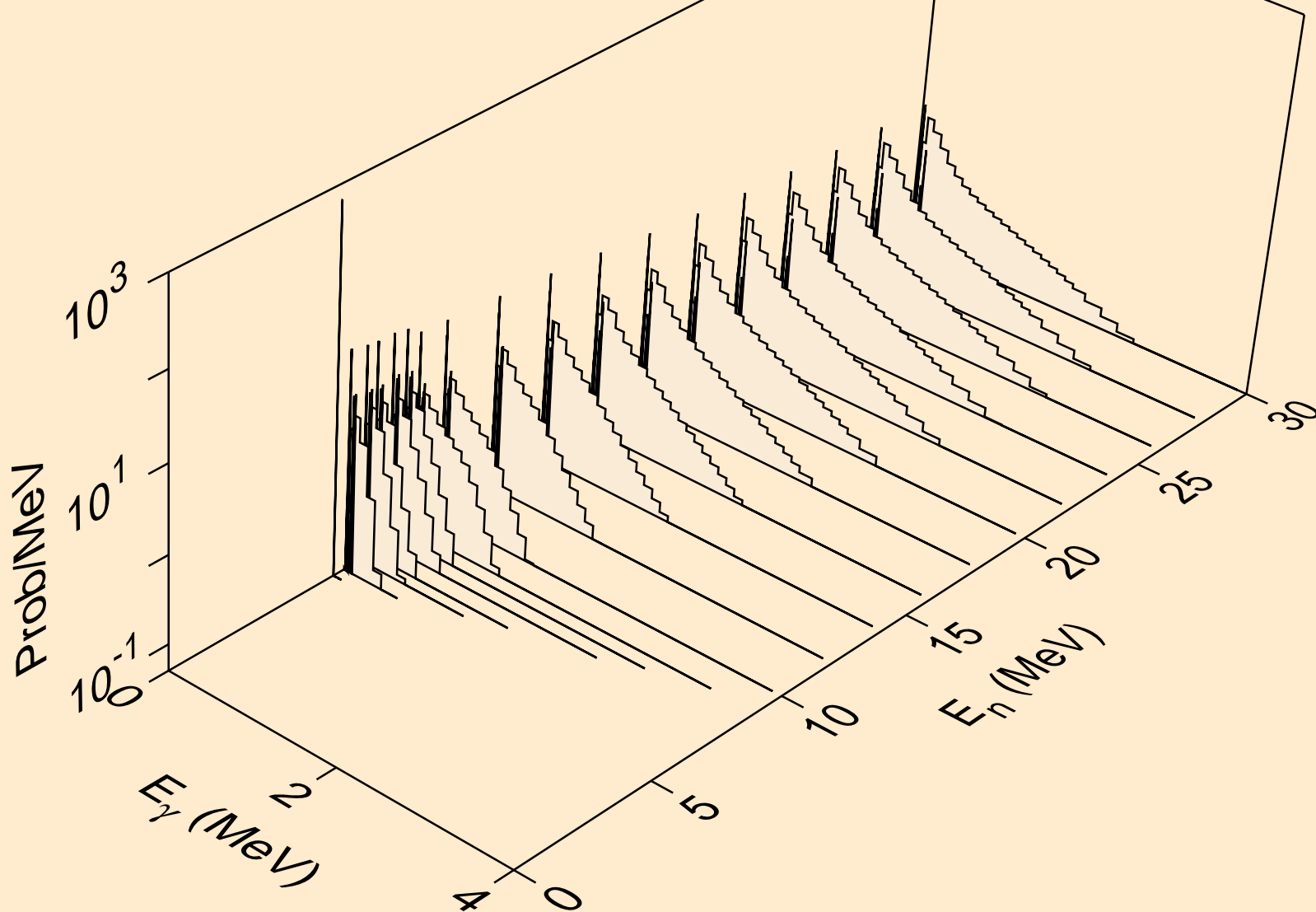
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Photon emission for (n,gma)



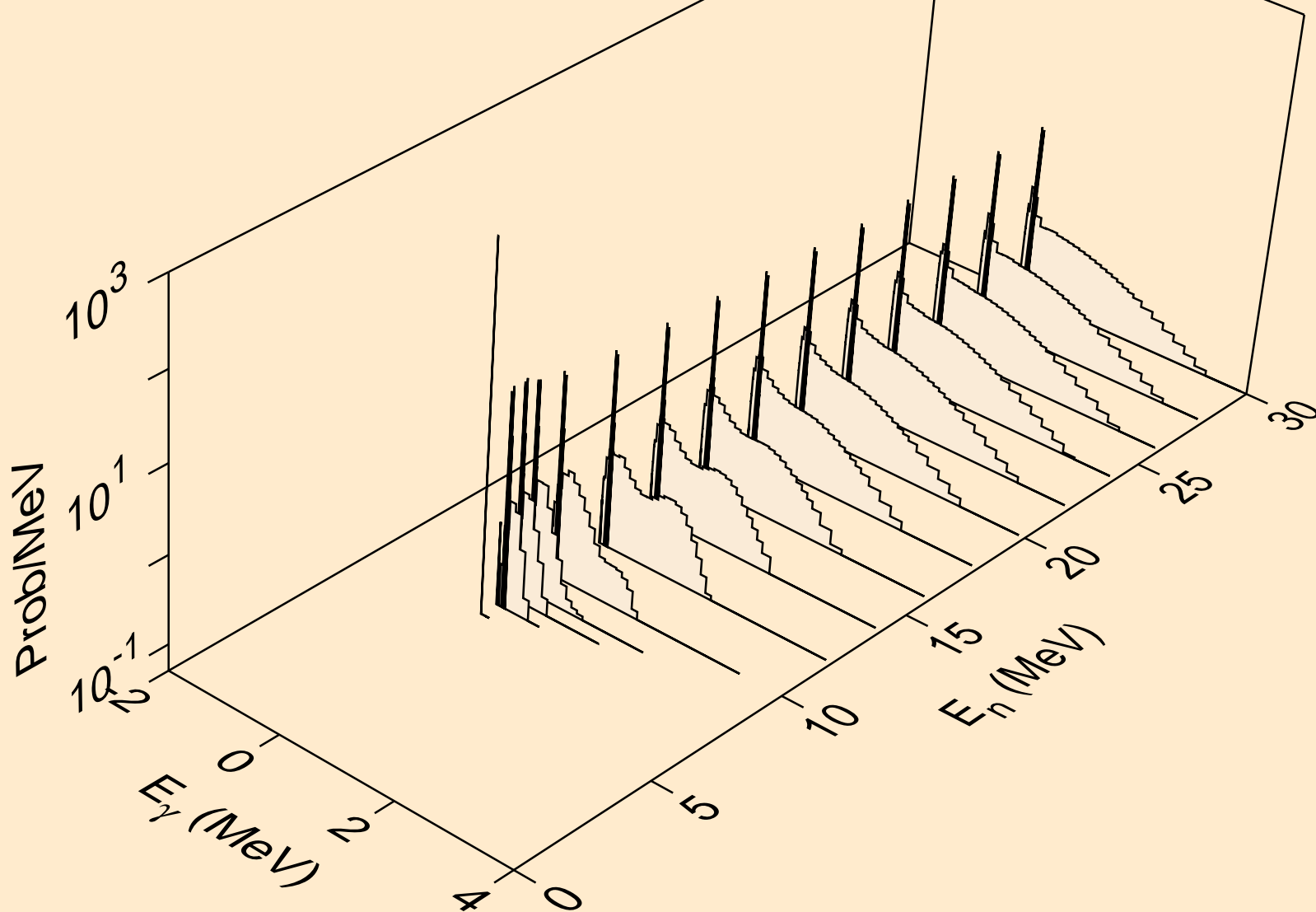
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Photon emission for (n,p)



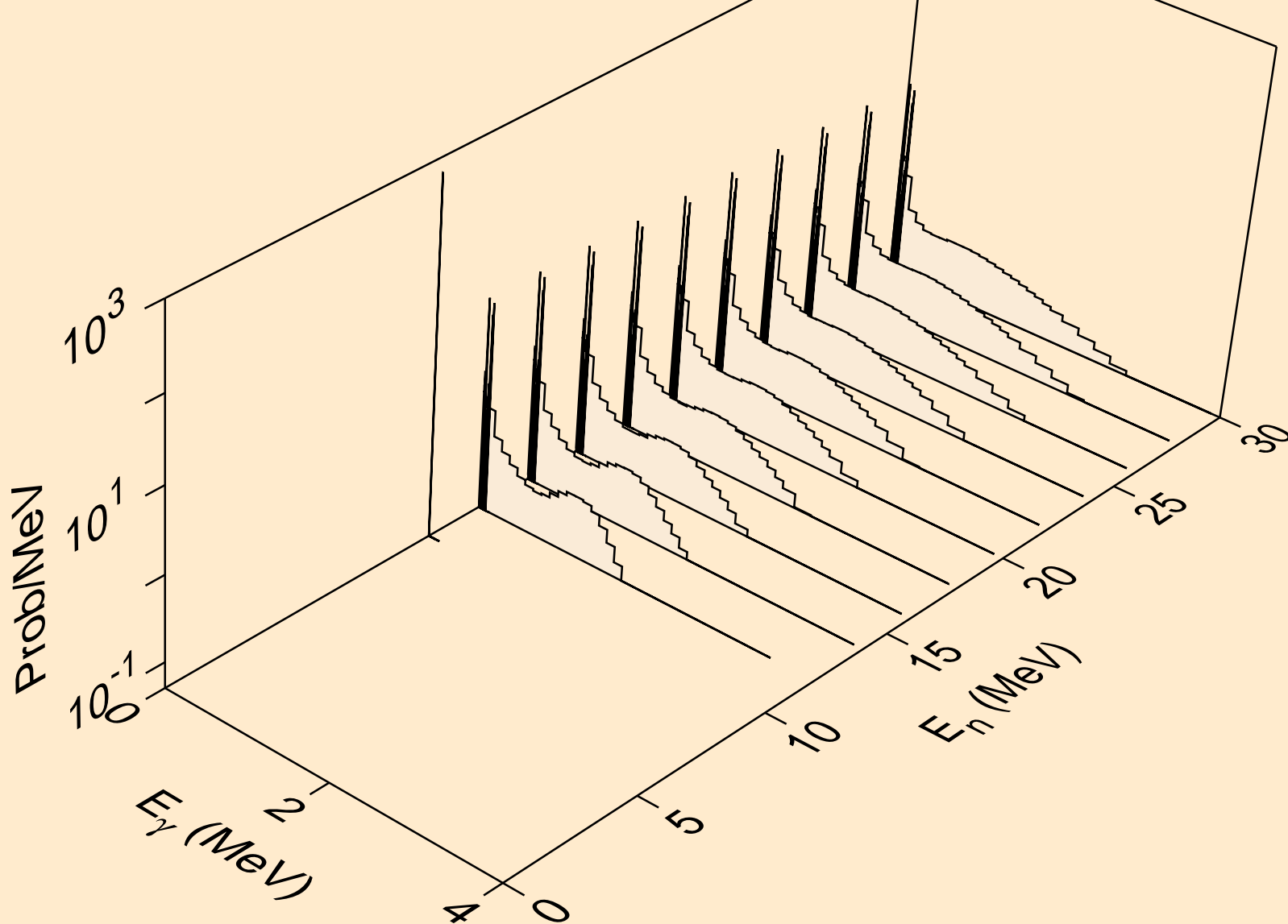
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Photon emission for (n,d)



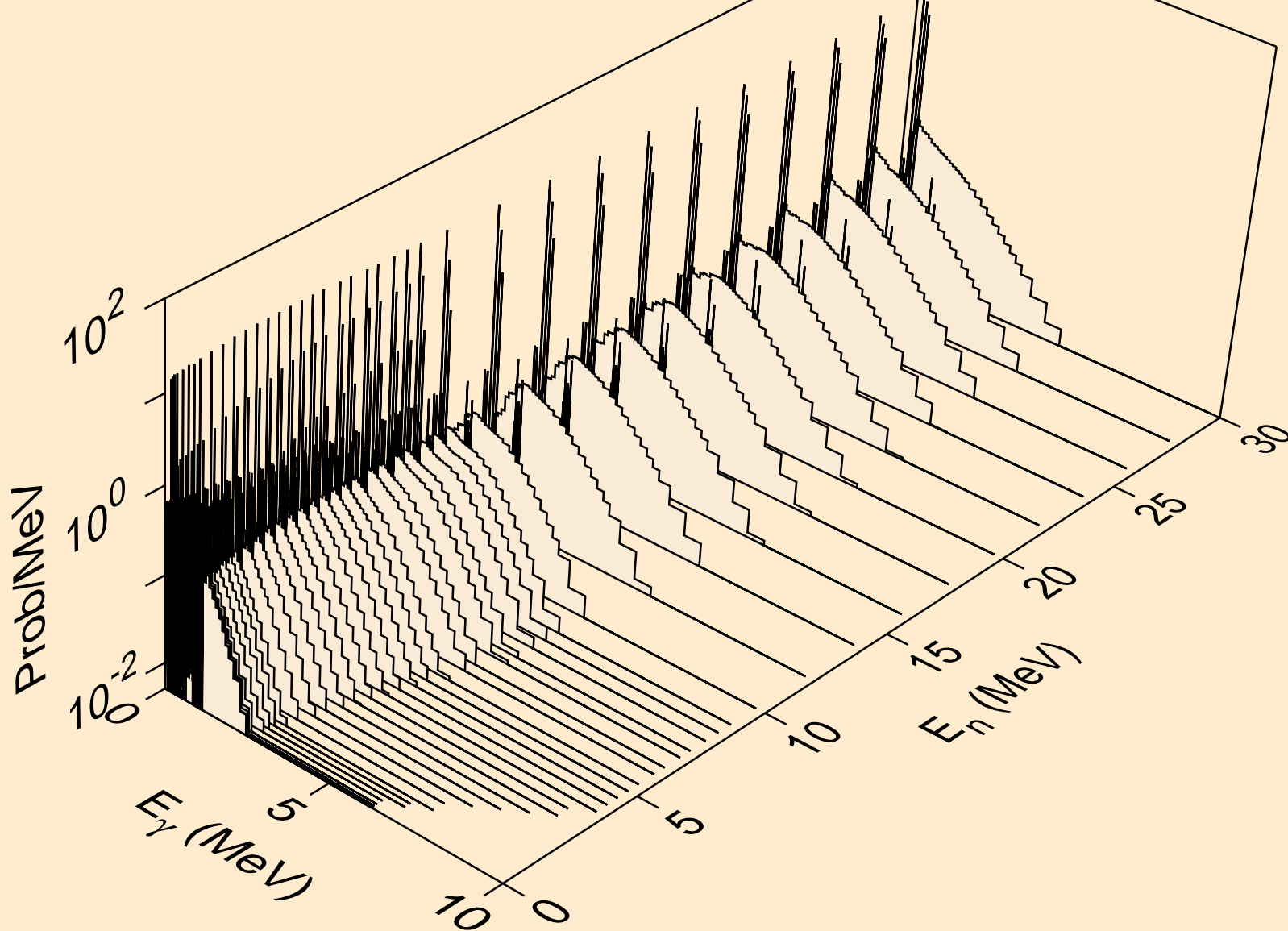
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Photon emission for (n,t)



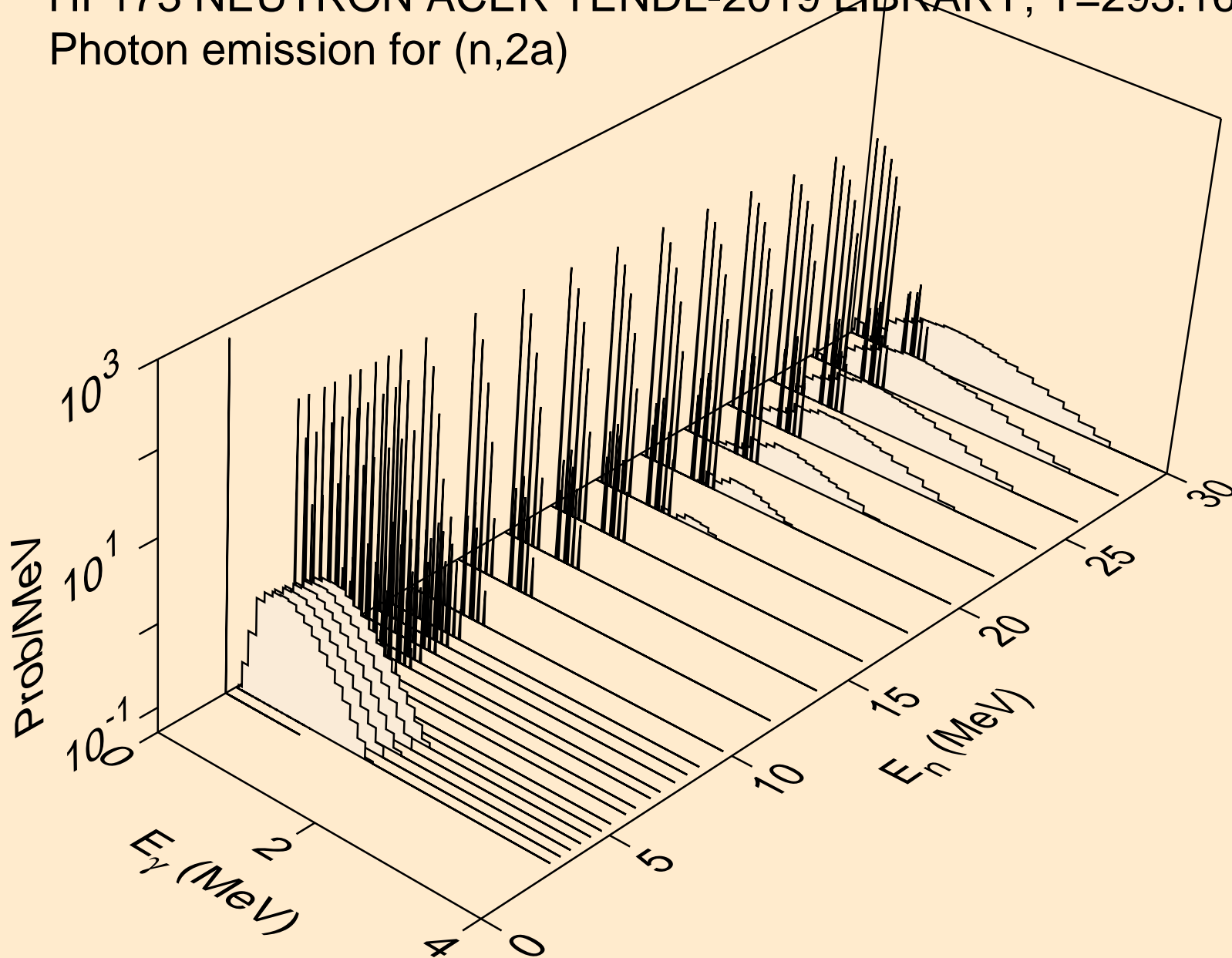
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Photon emission for (n,he3)



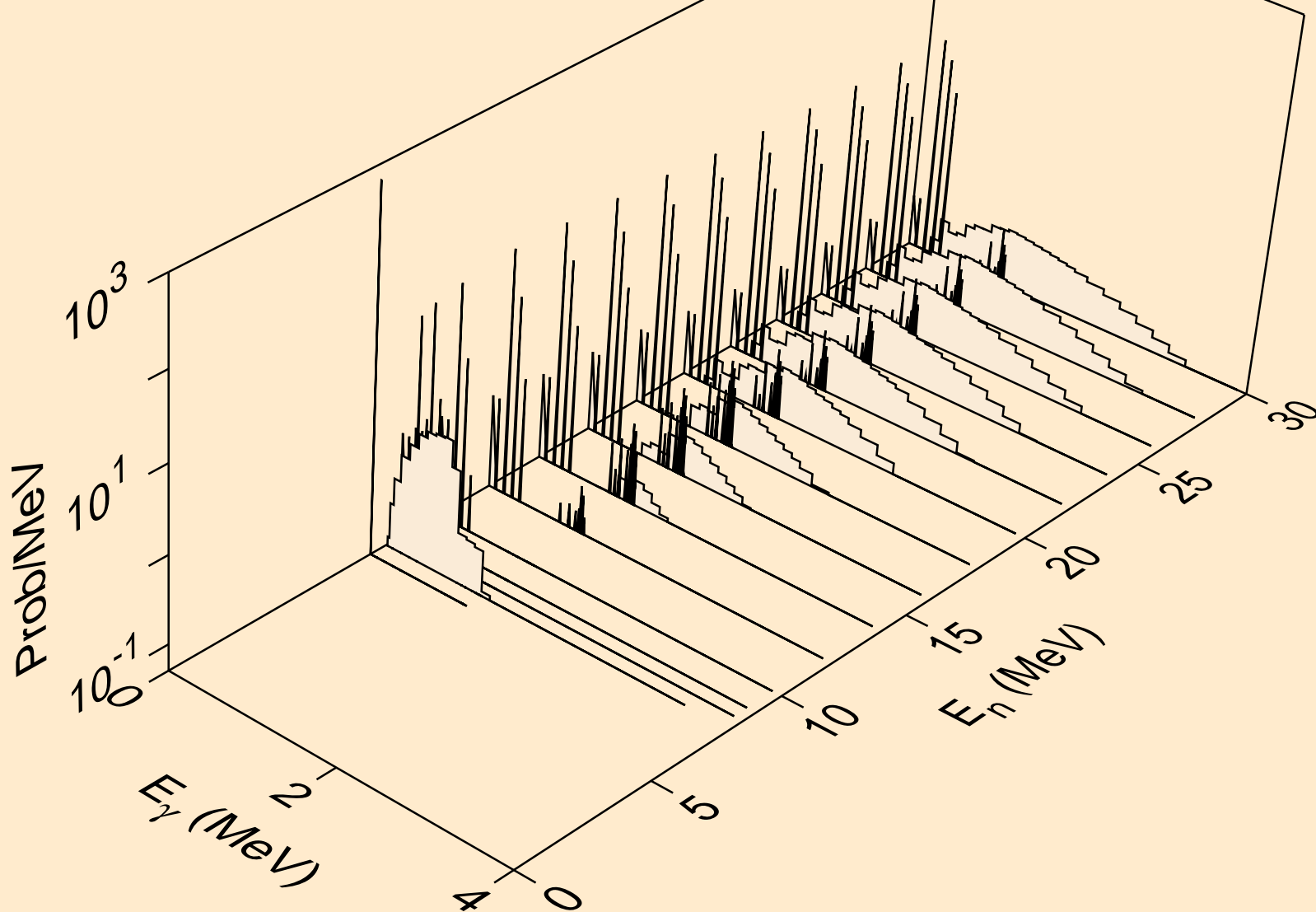
HF173 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,a)



HF173 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,2a)

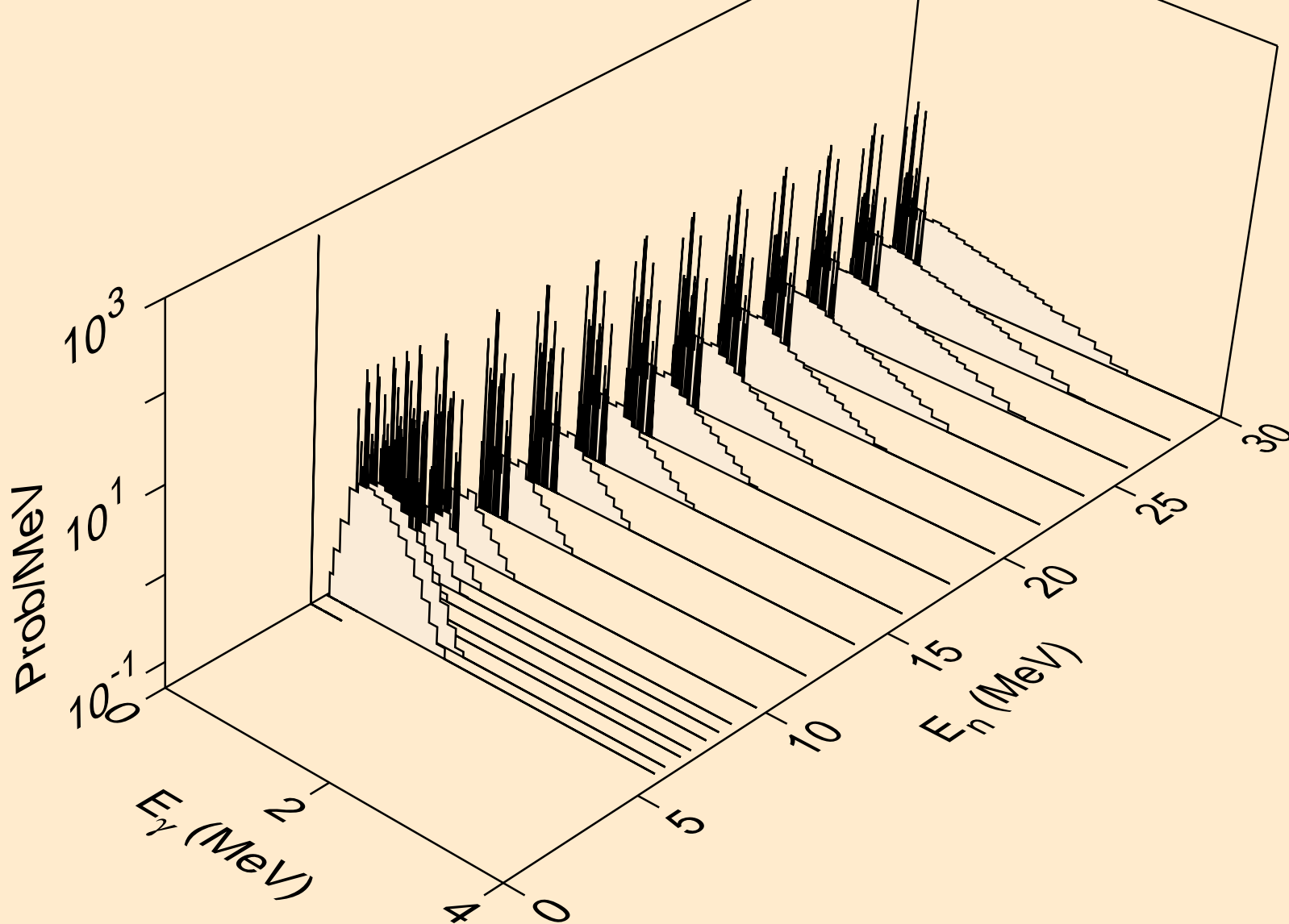


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Photon emission for (n,2p)

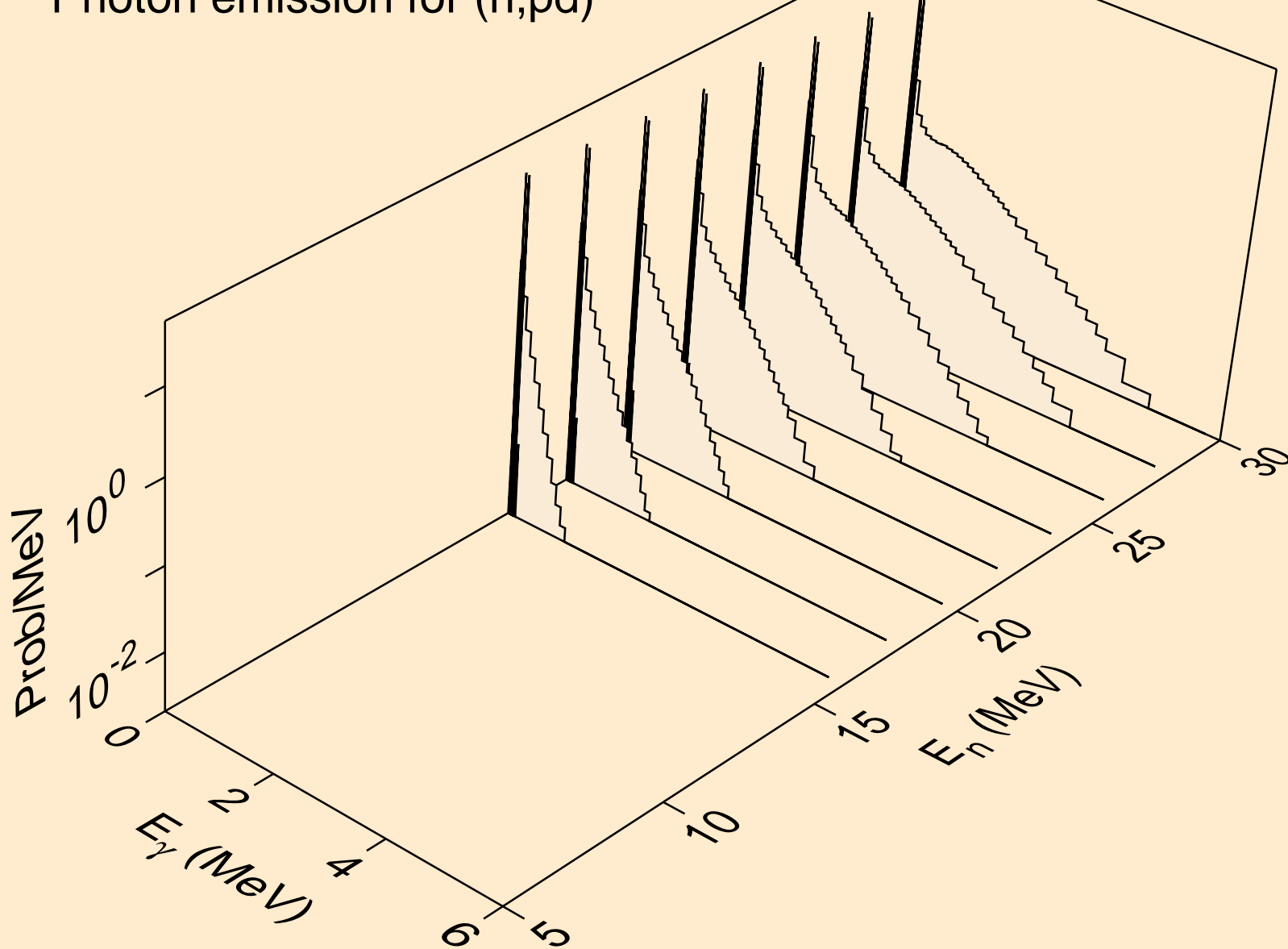




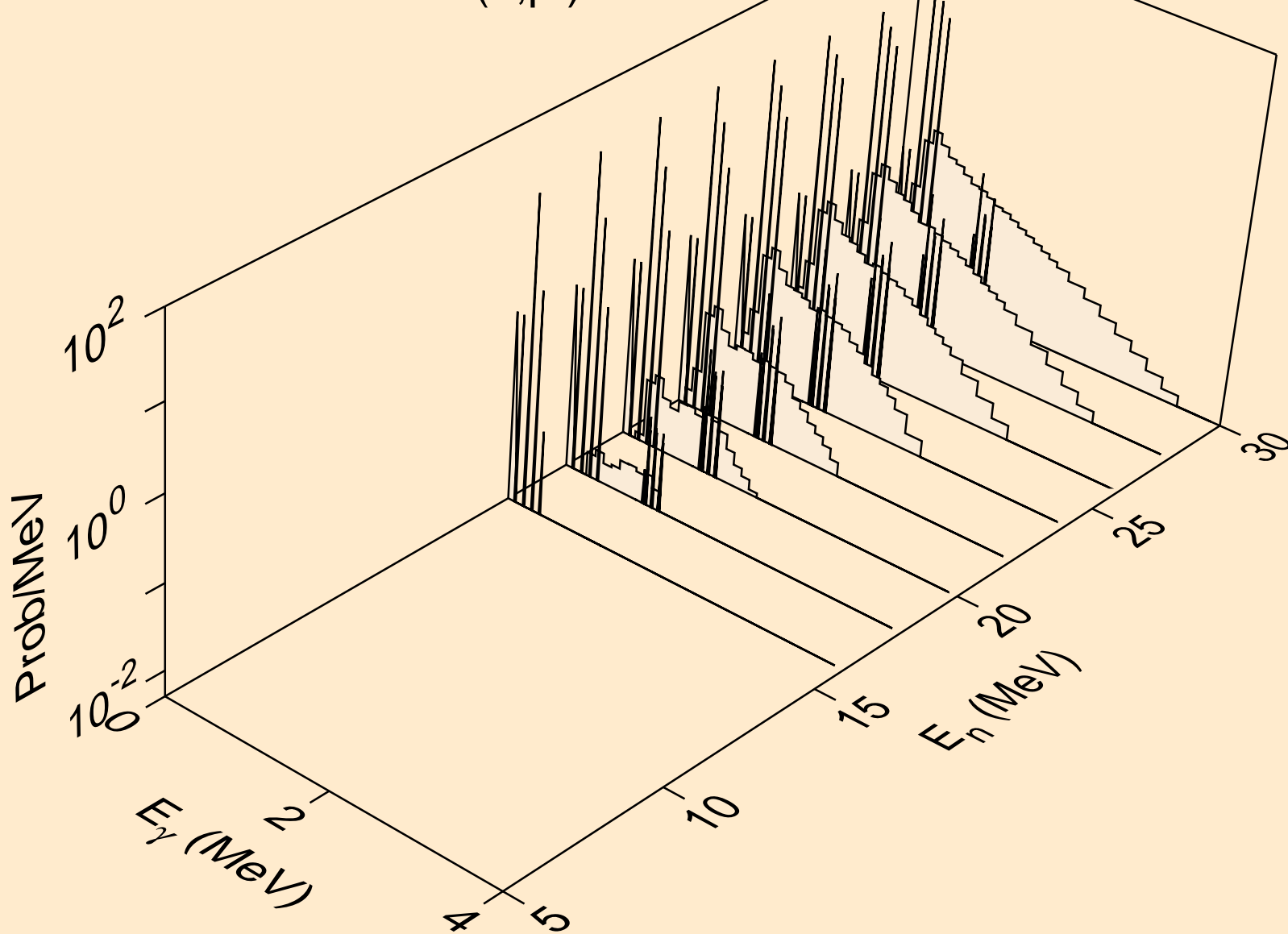
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Photon emission for (n,p)



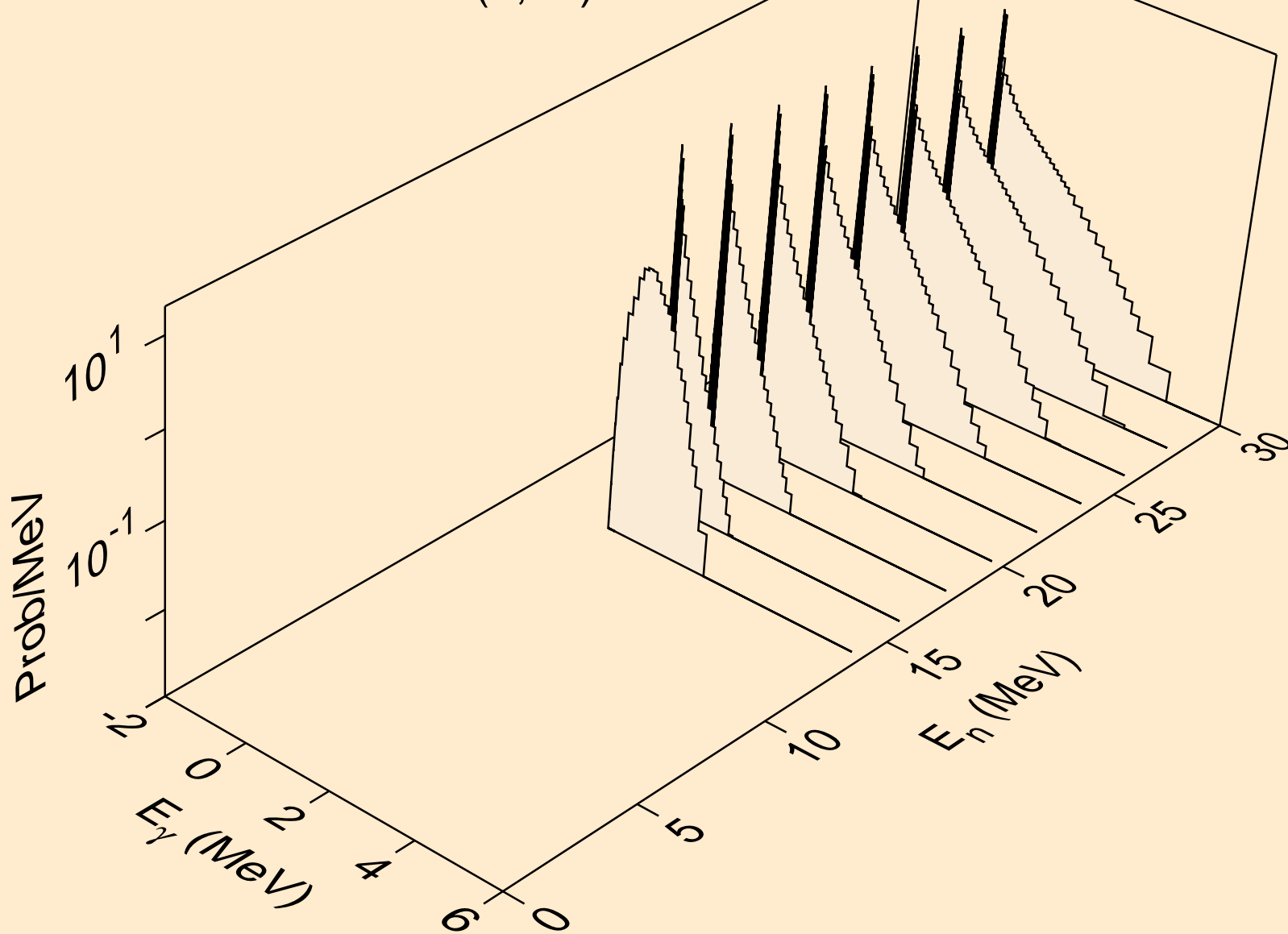
HF173 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,pd)



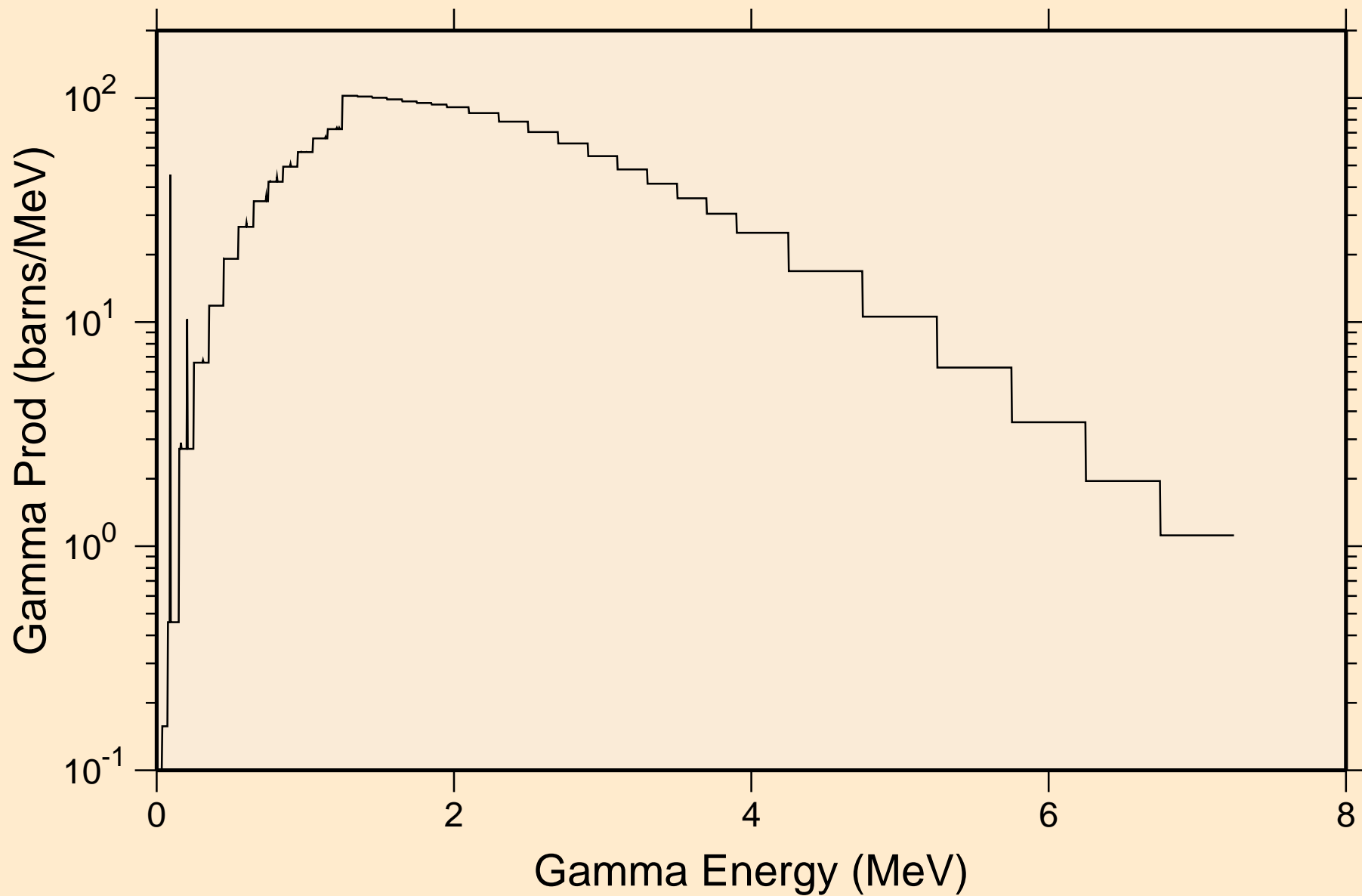
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Photon emission for (n,pt)



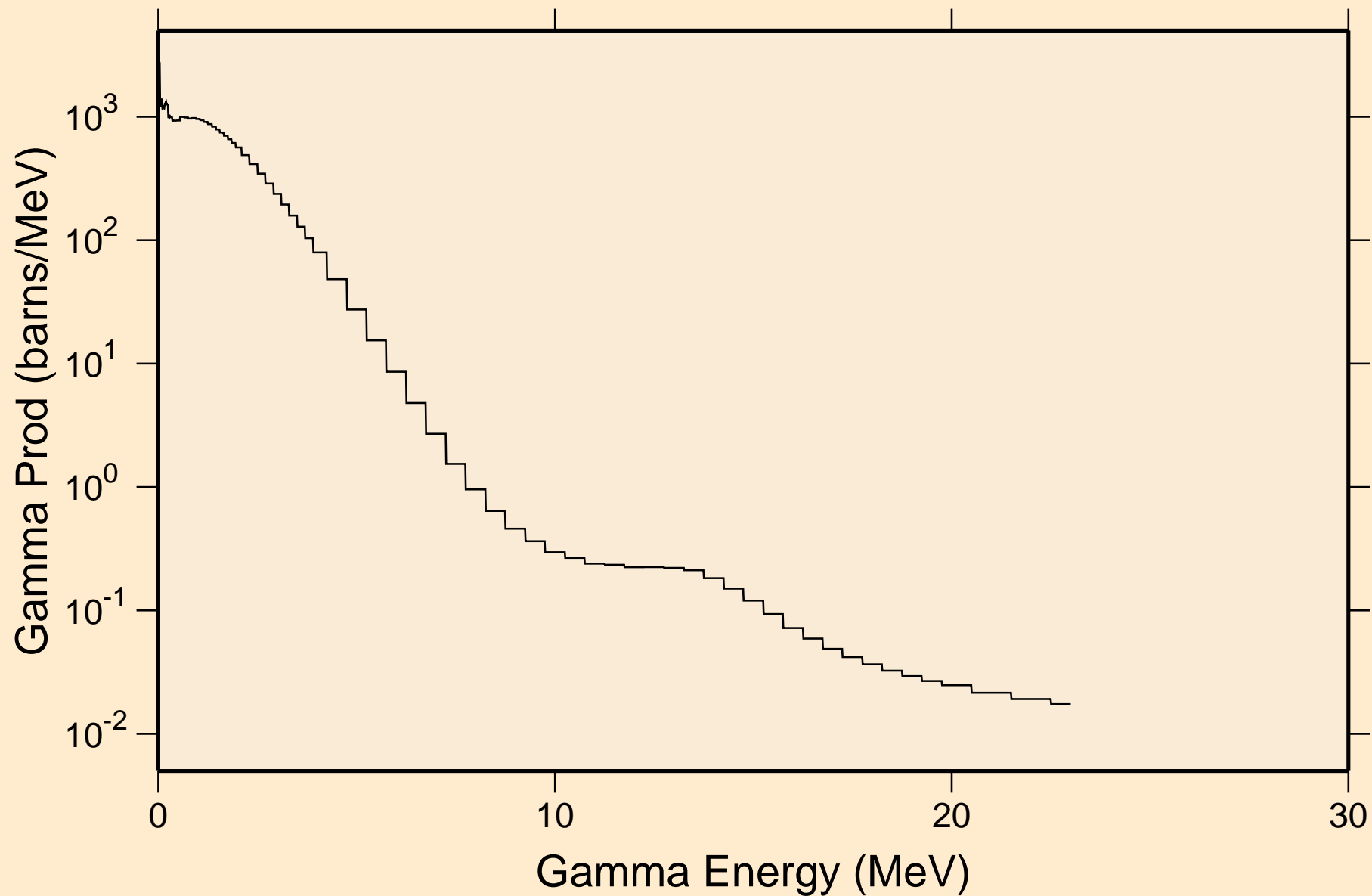
HF173 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,da)



HF173 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
thermal capture photon spectrum

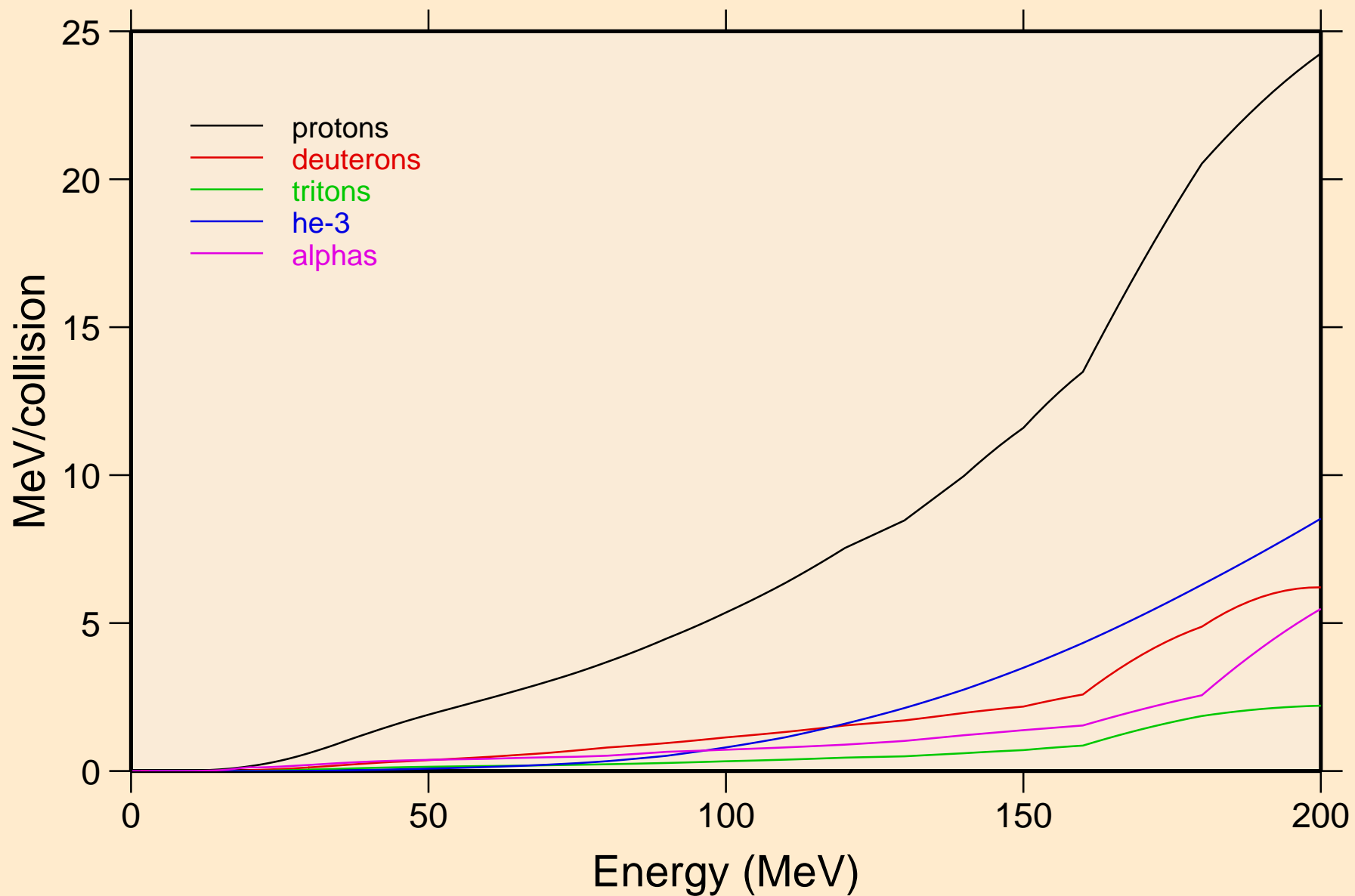


HF173 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
14 MeV photon spectrum



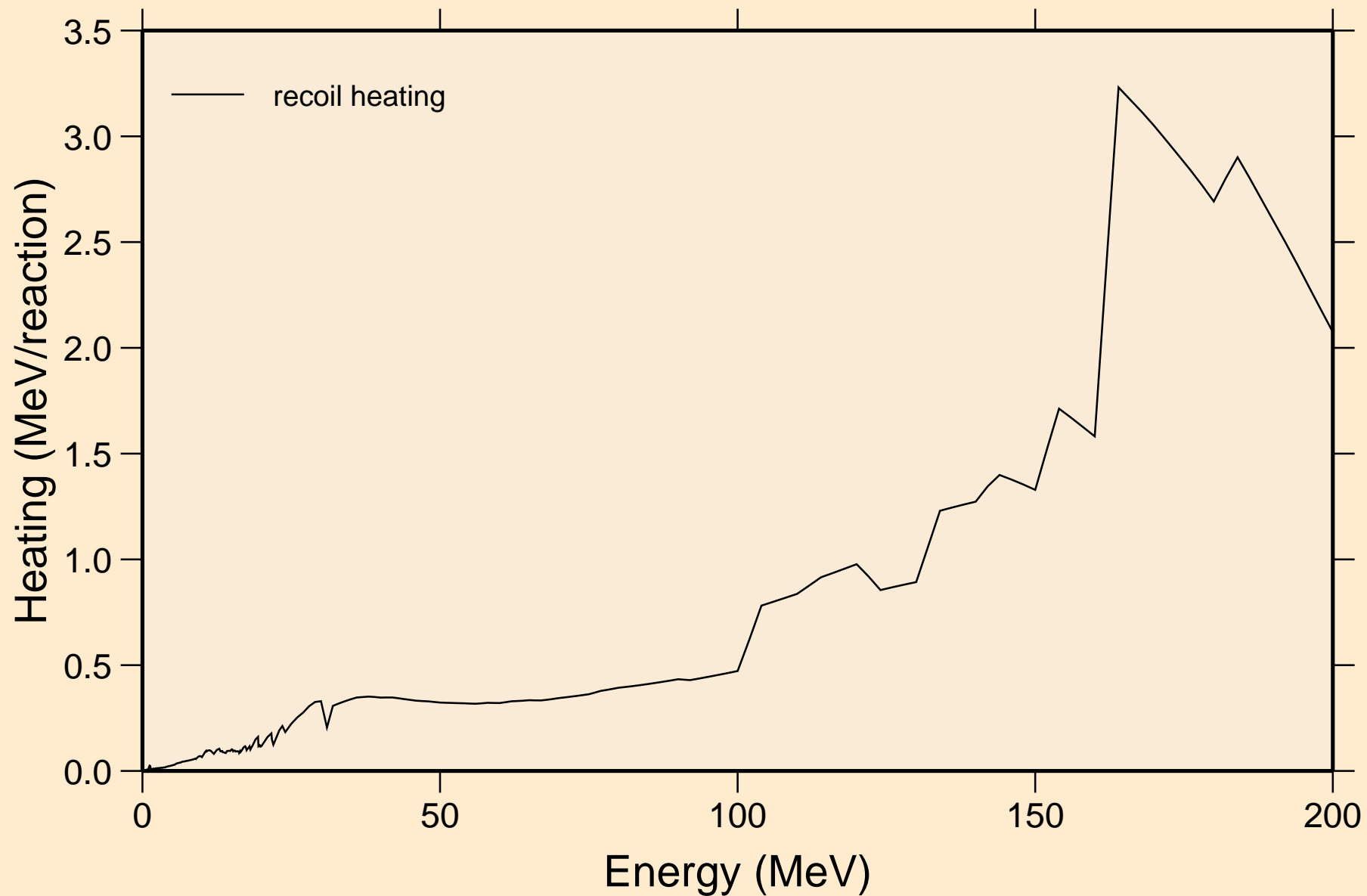
# HF173 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K

## Particle heating contributions



# HF173 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K

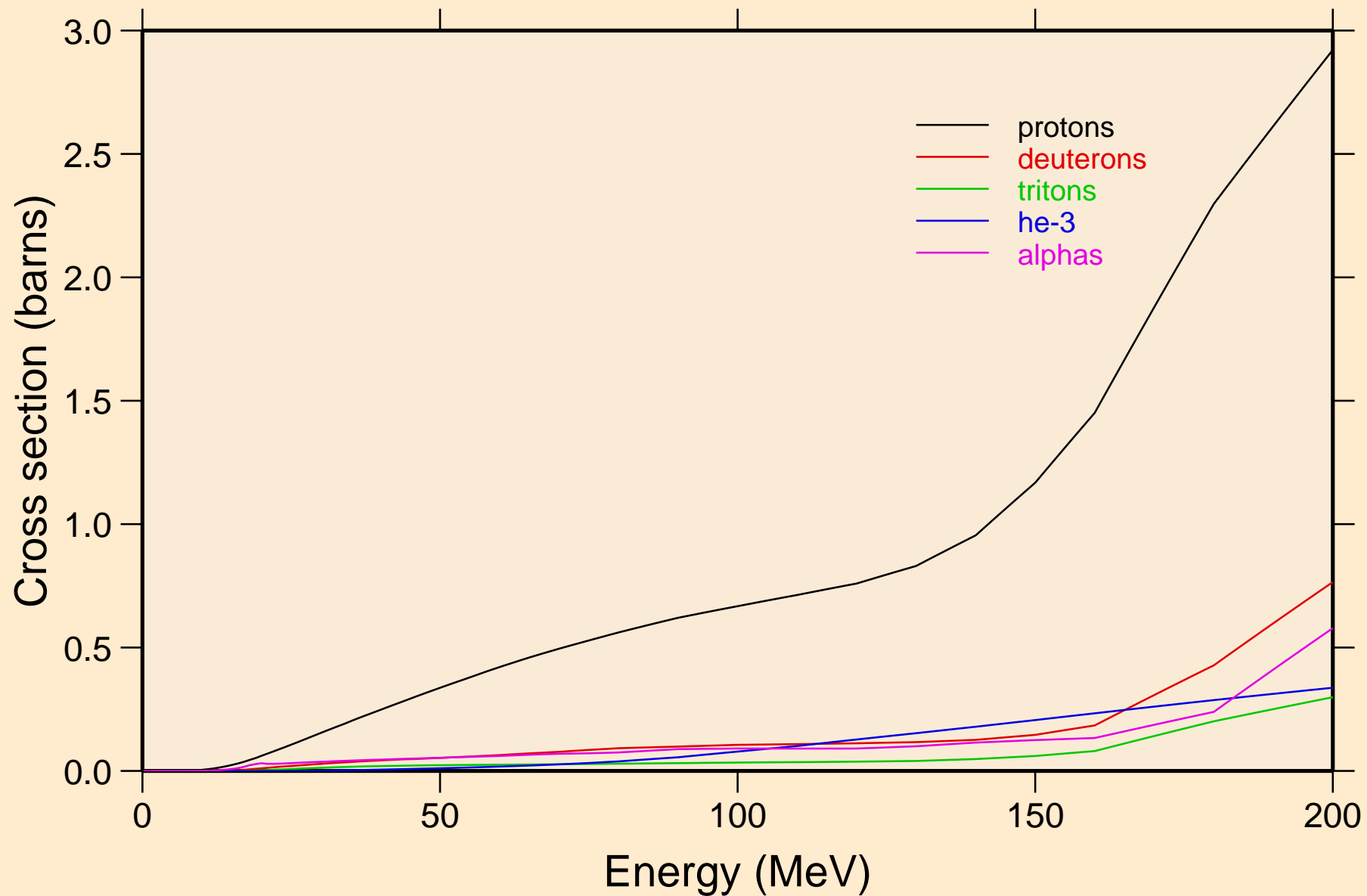
## Recoil Heating



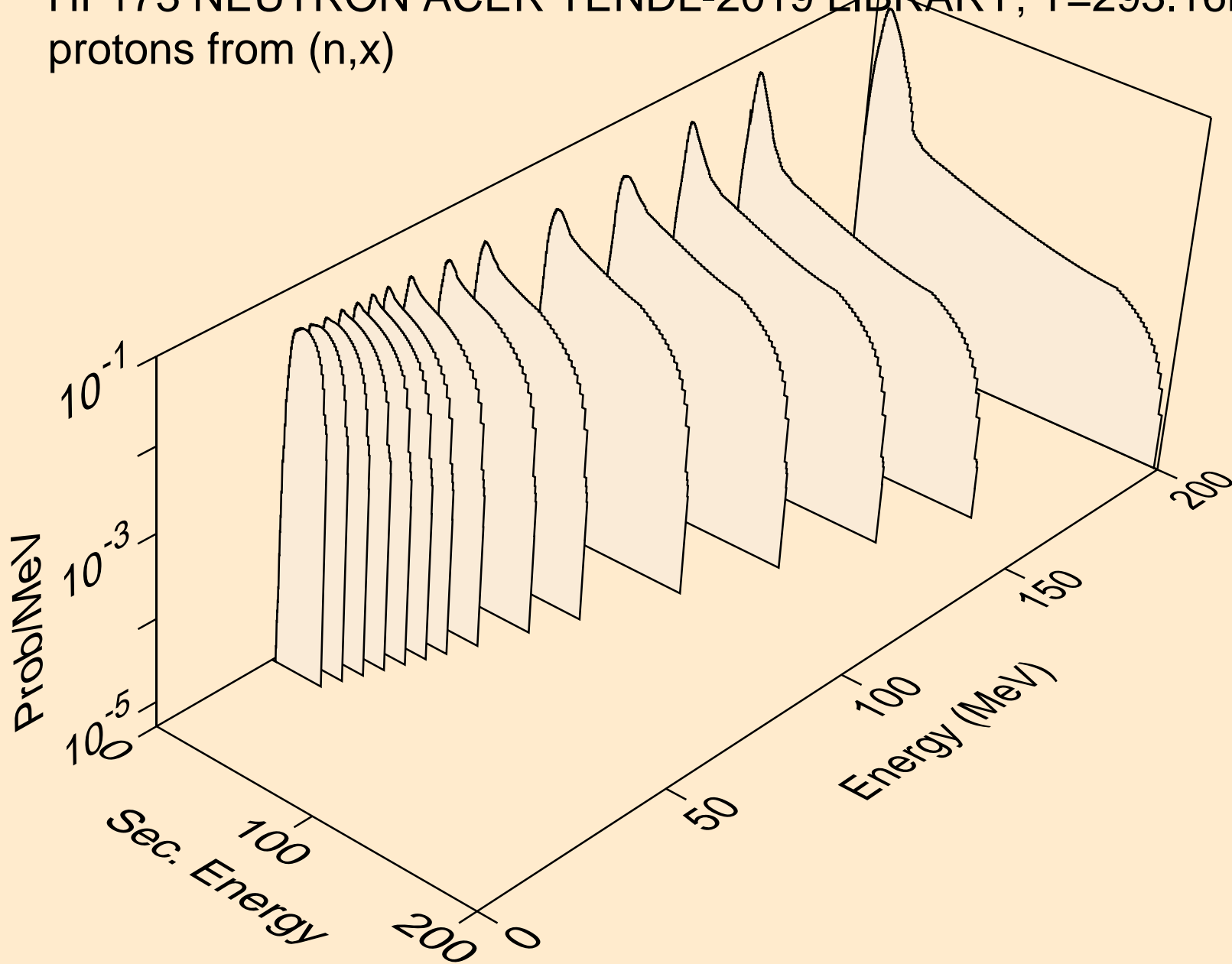


# HF173 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K

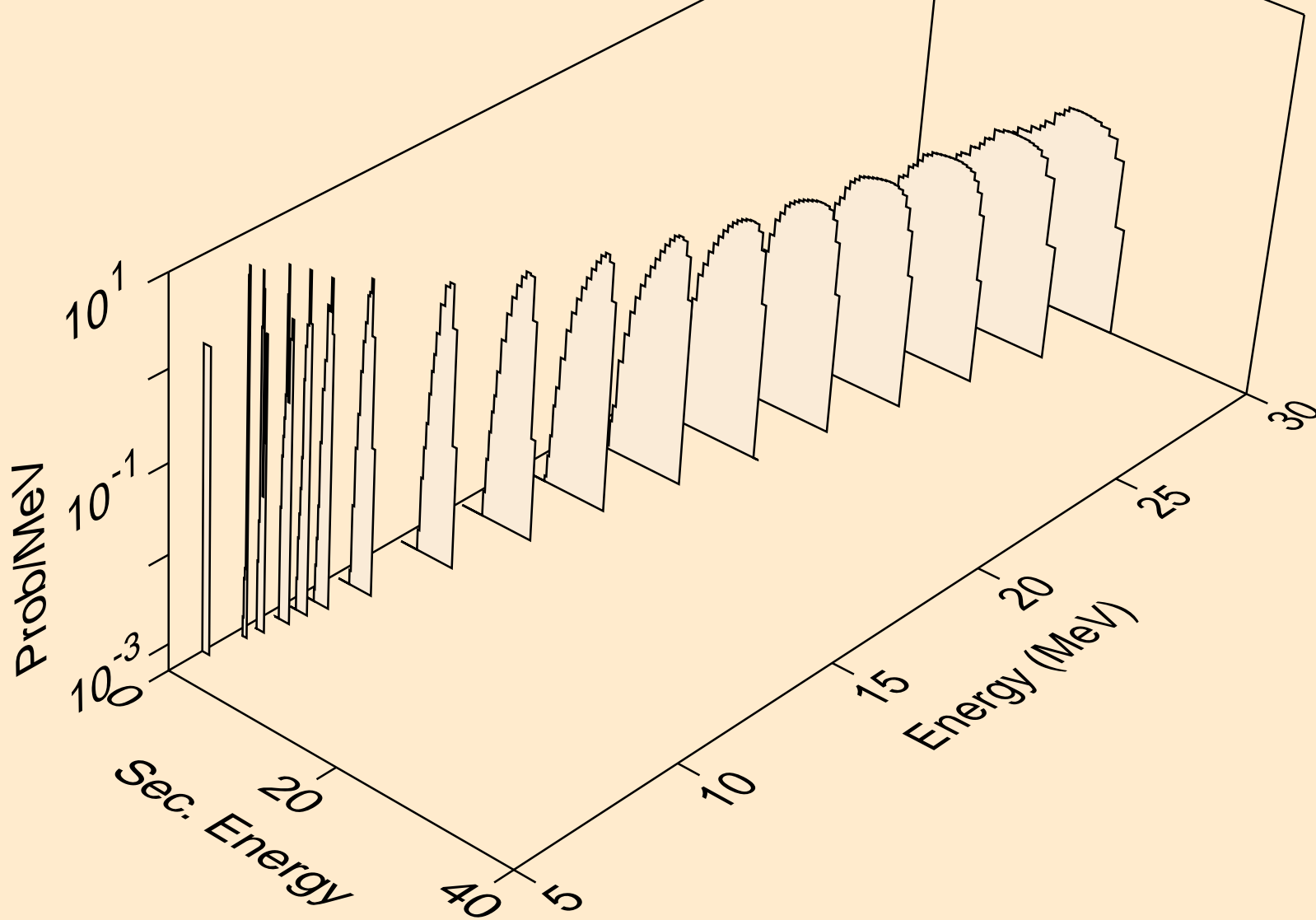
## Particle production cross sections



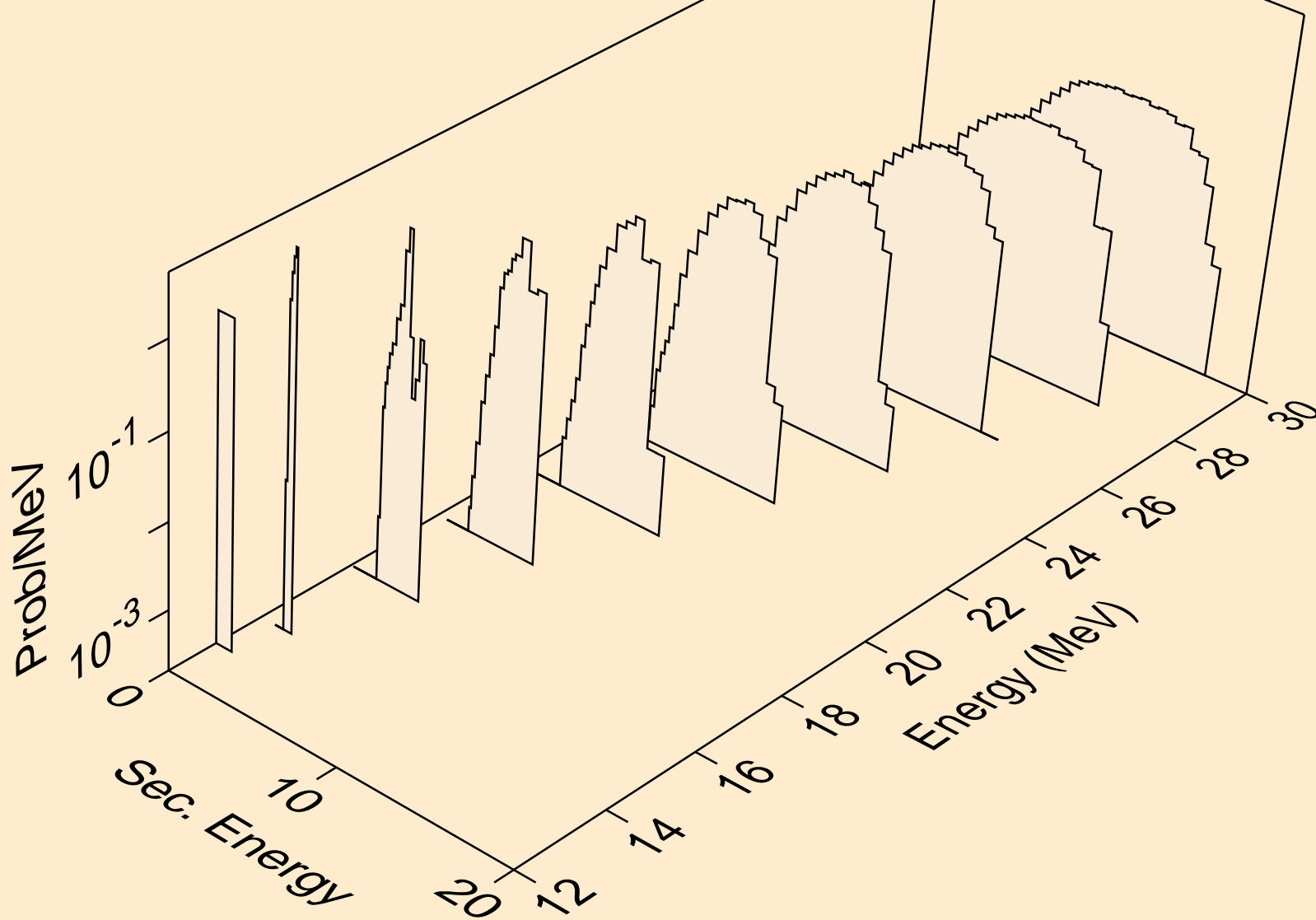
HF173 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
protons from (n,x)



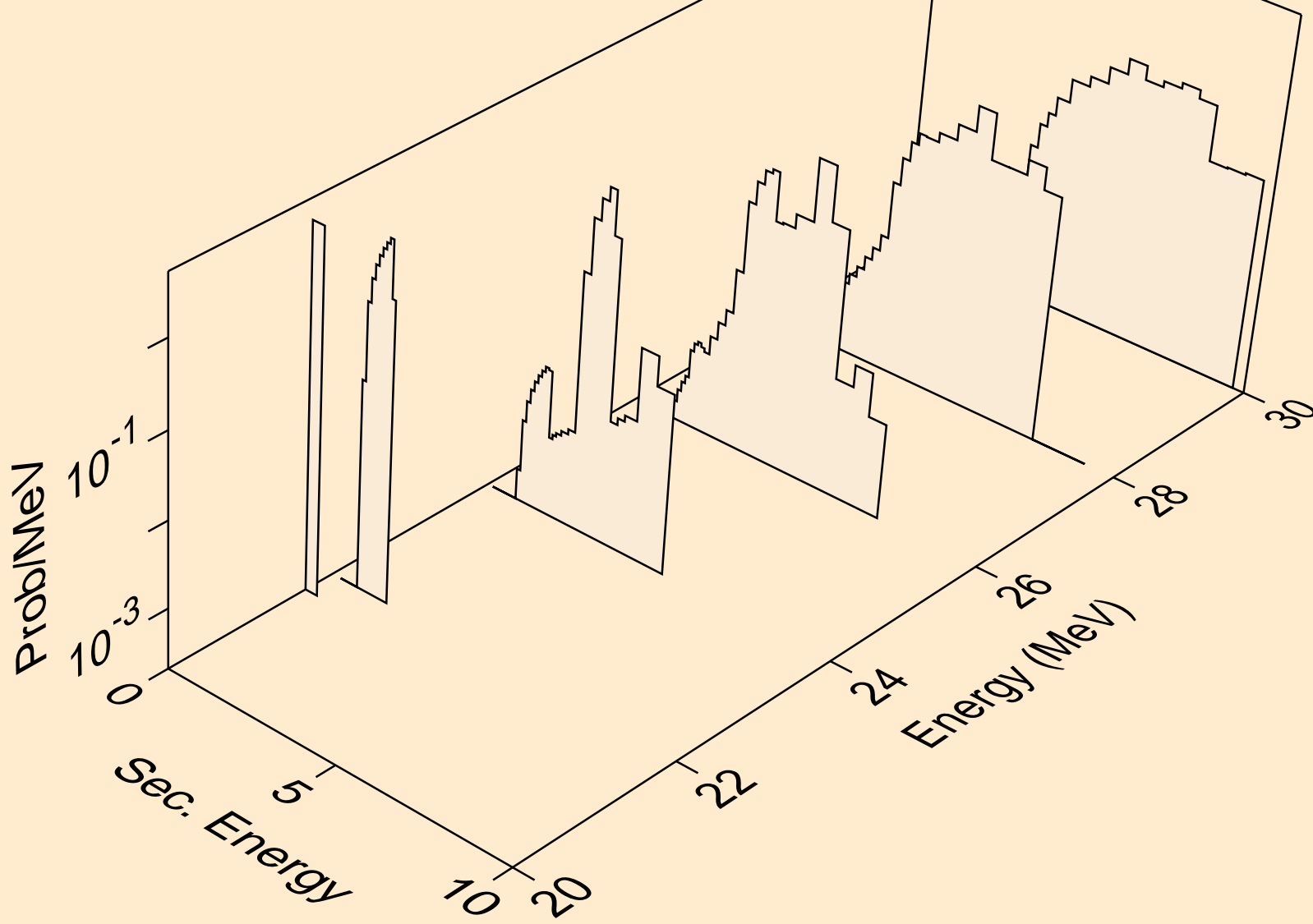
HF173 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
protons from (n,n\*)p



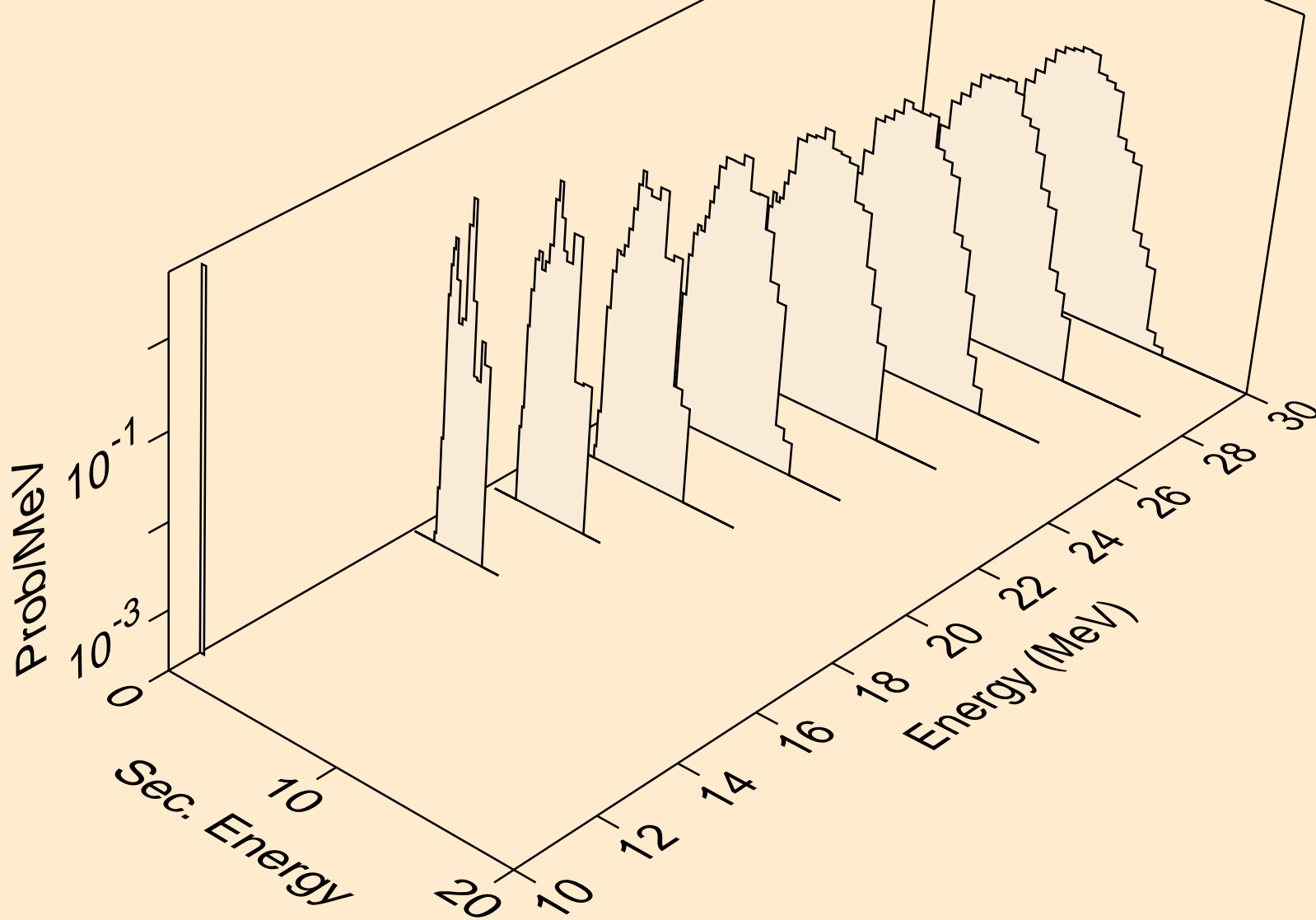
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protons from (n,2np)



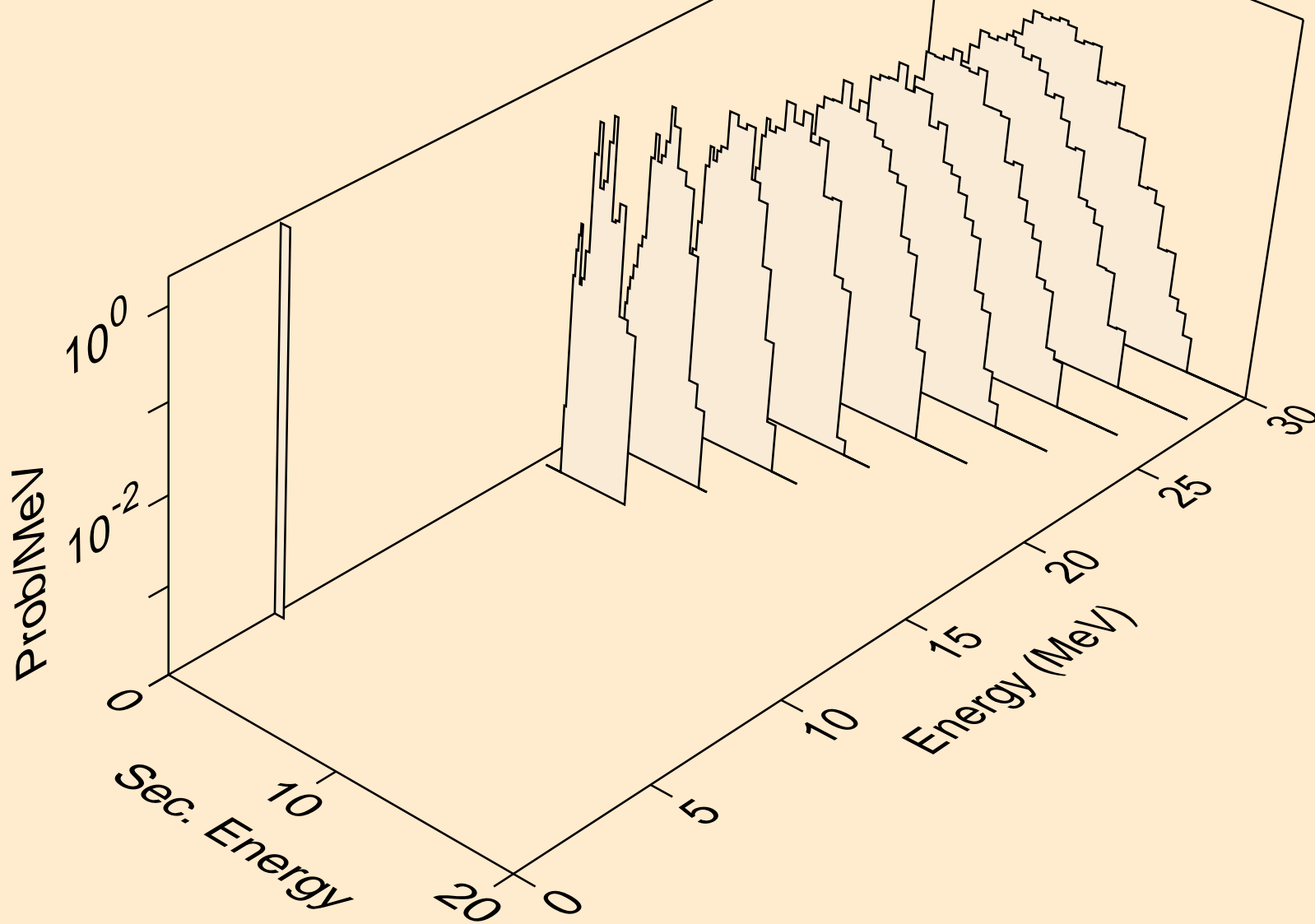
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protons from (n,3np)



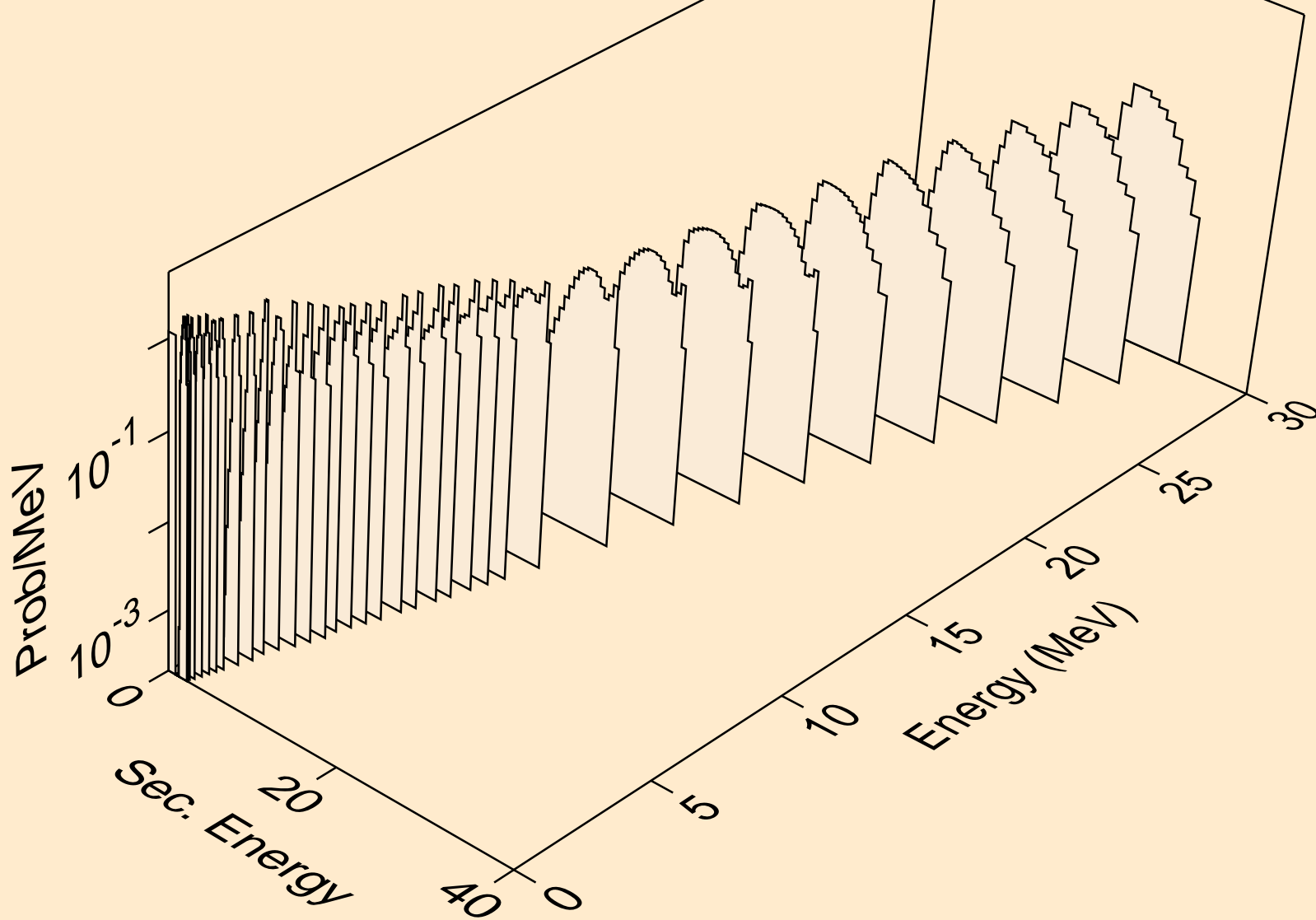
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protons from (n,2np)



HF173 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
protons from (n,npa)

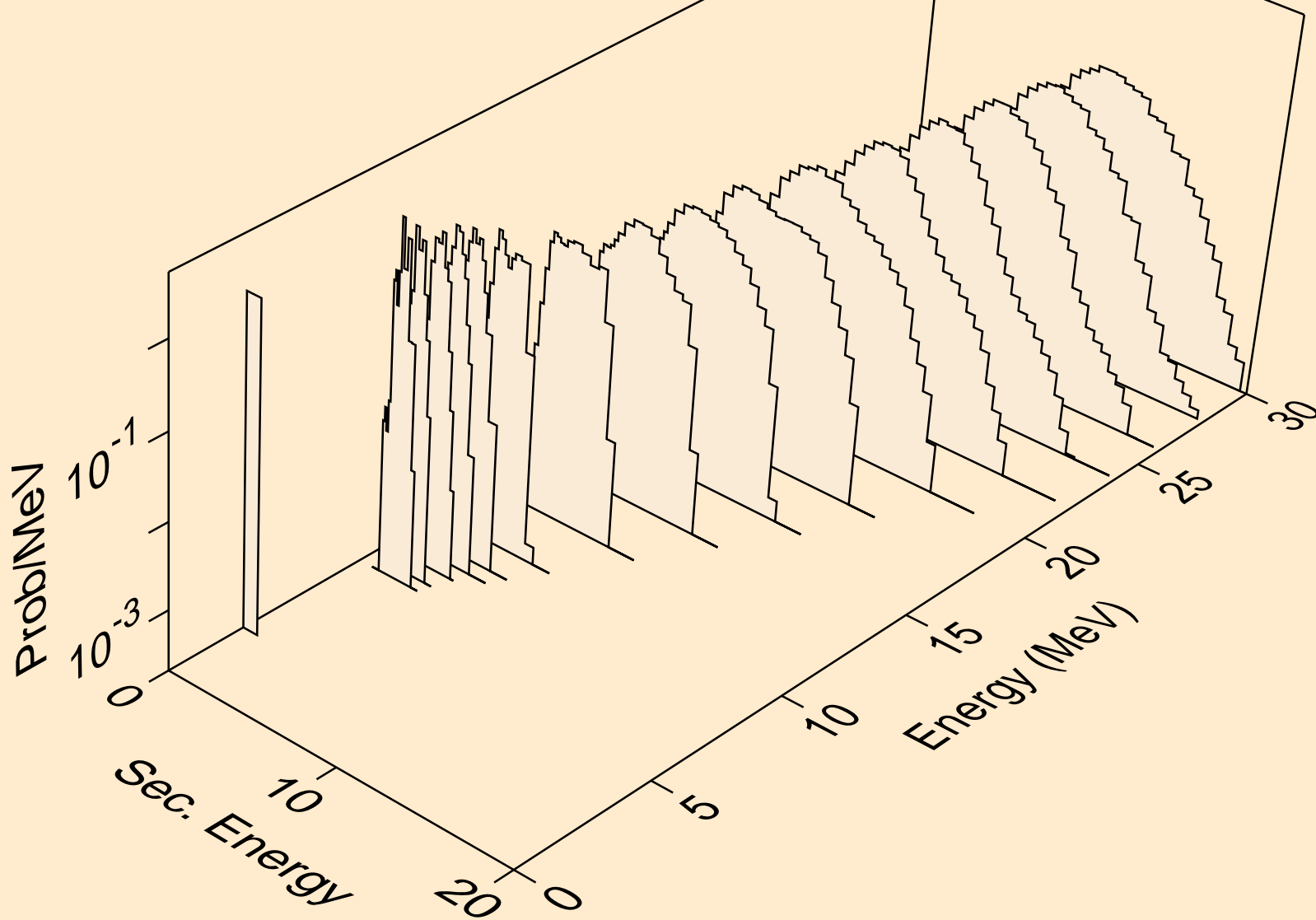


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protons from (n,p)

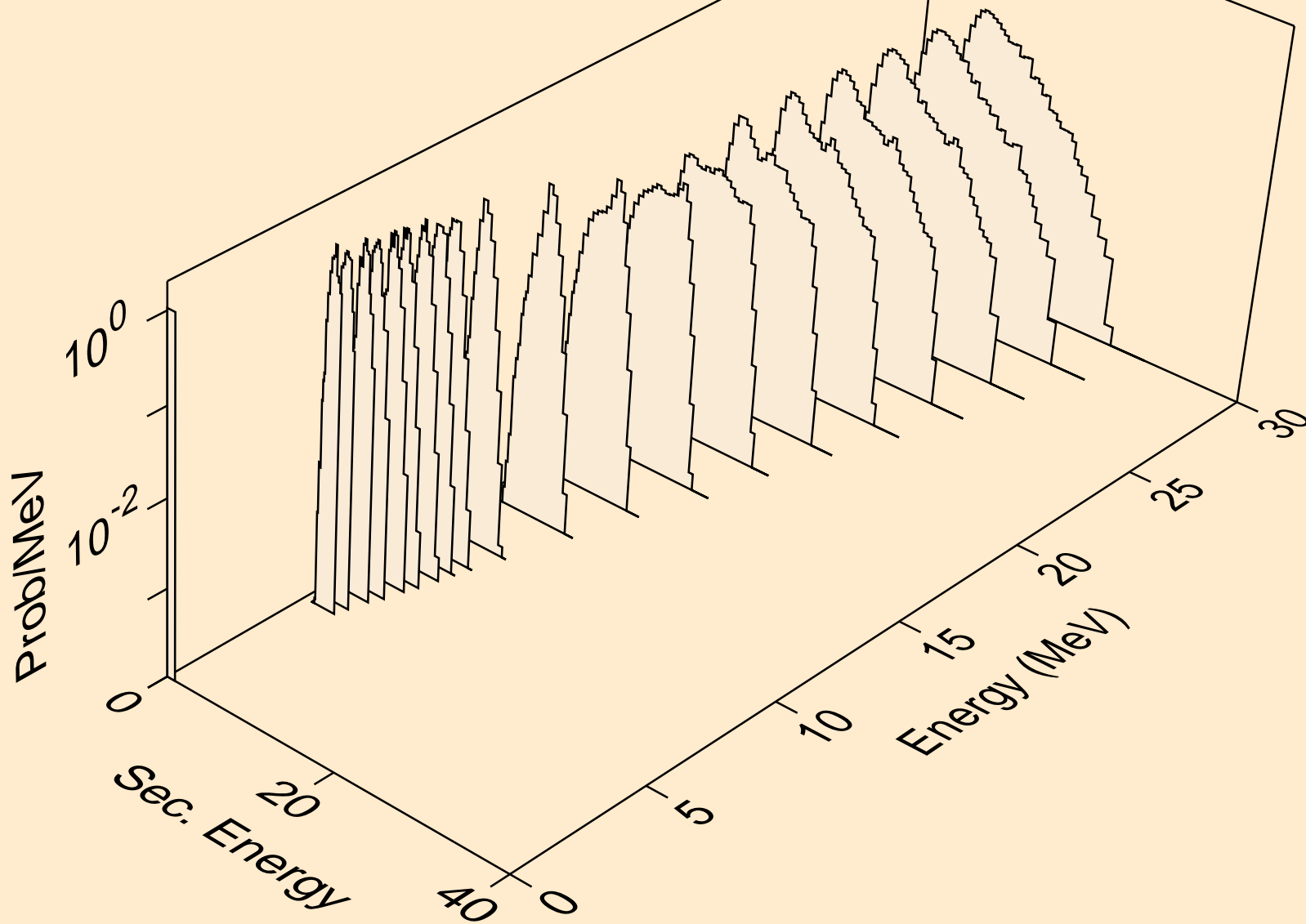




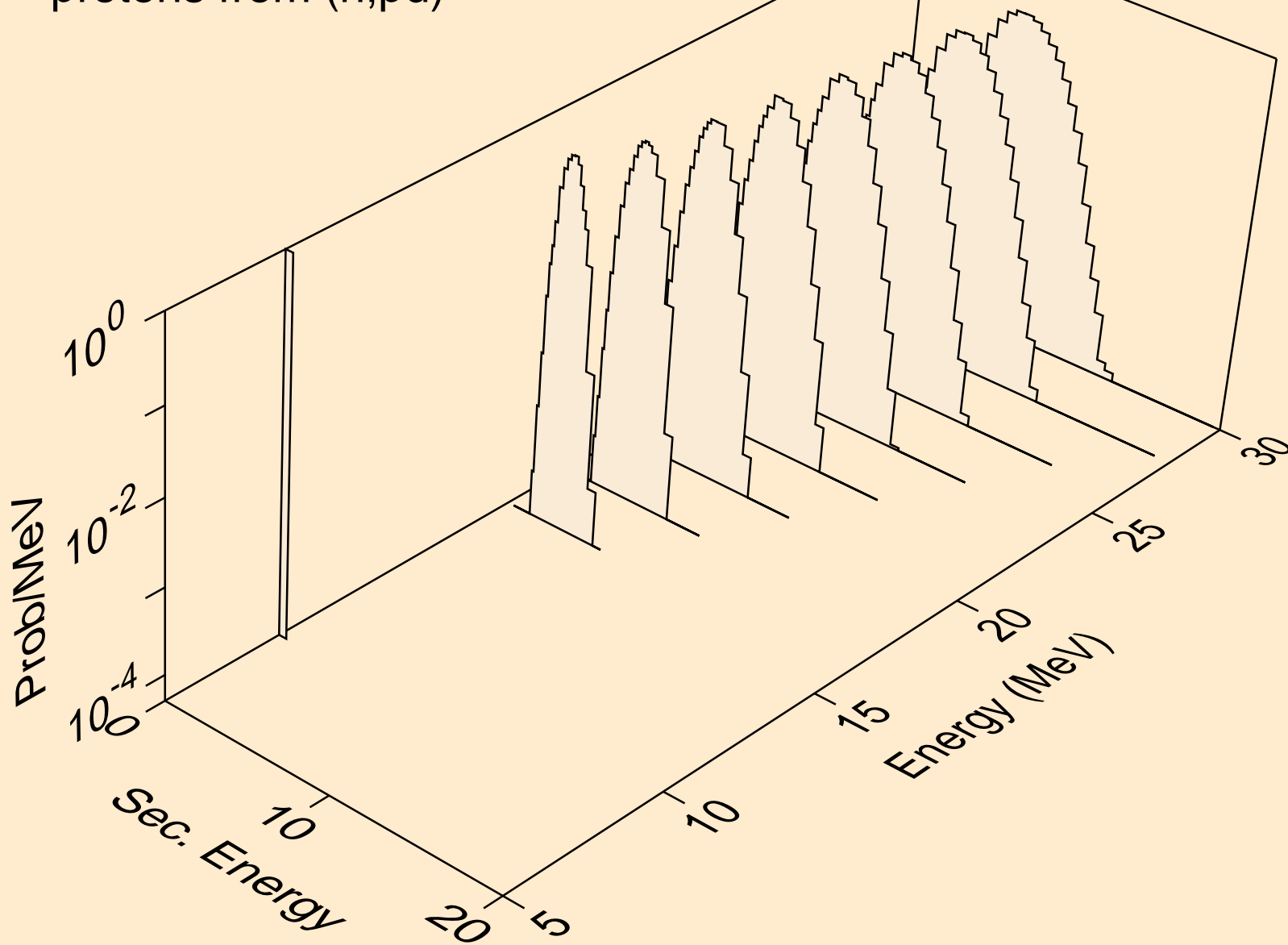
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protons from (n,2p)



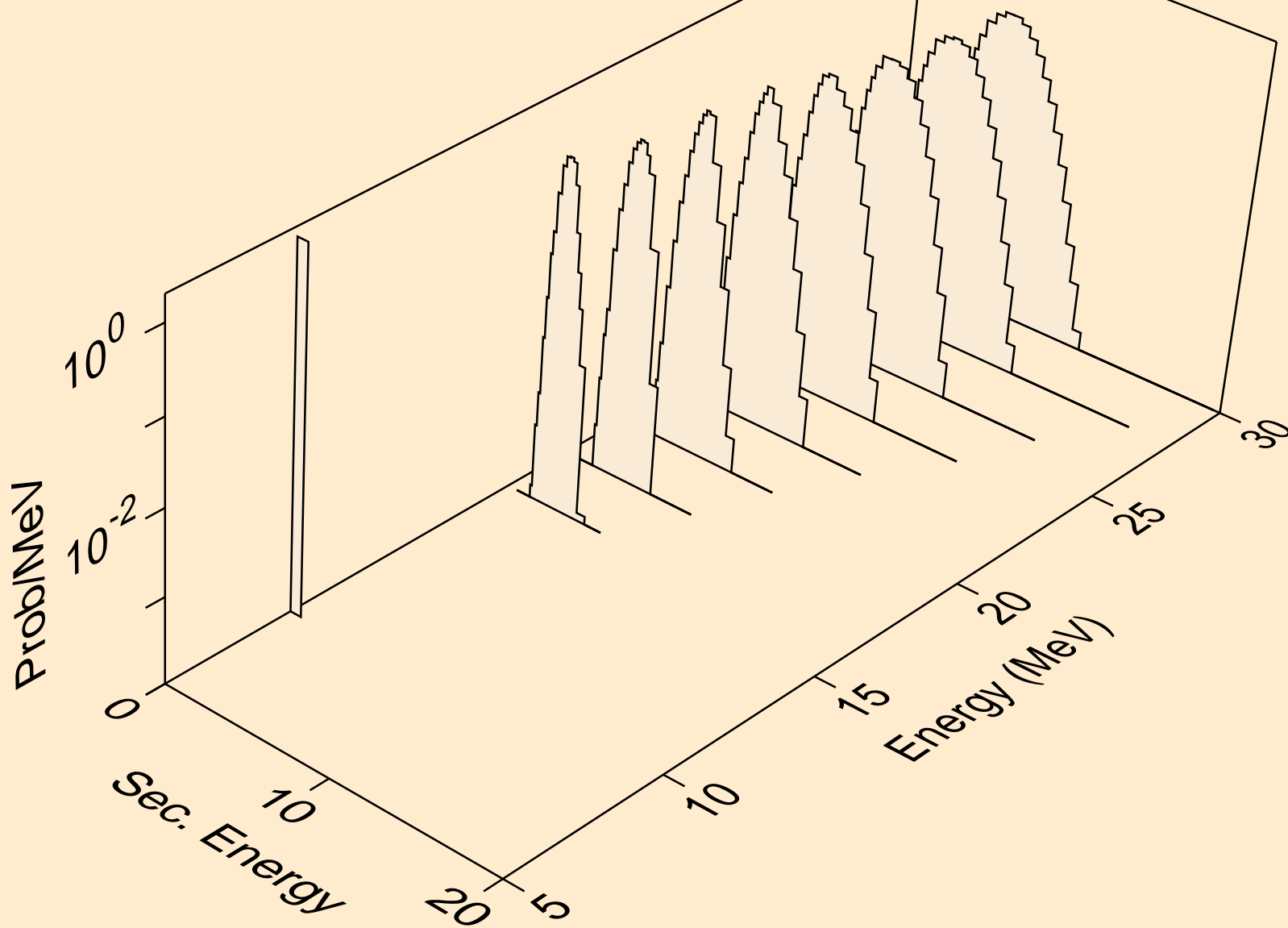
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protons from (n,p)



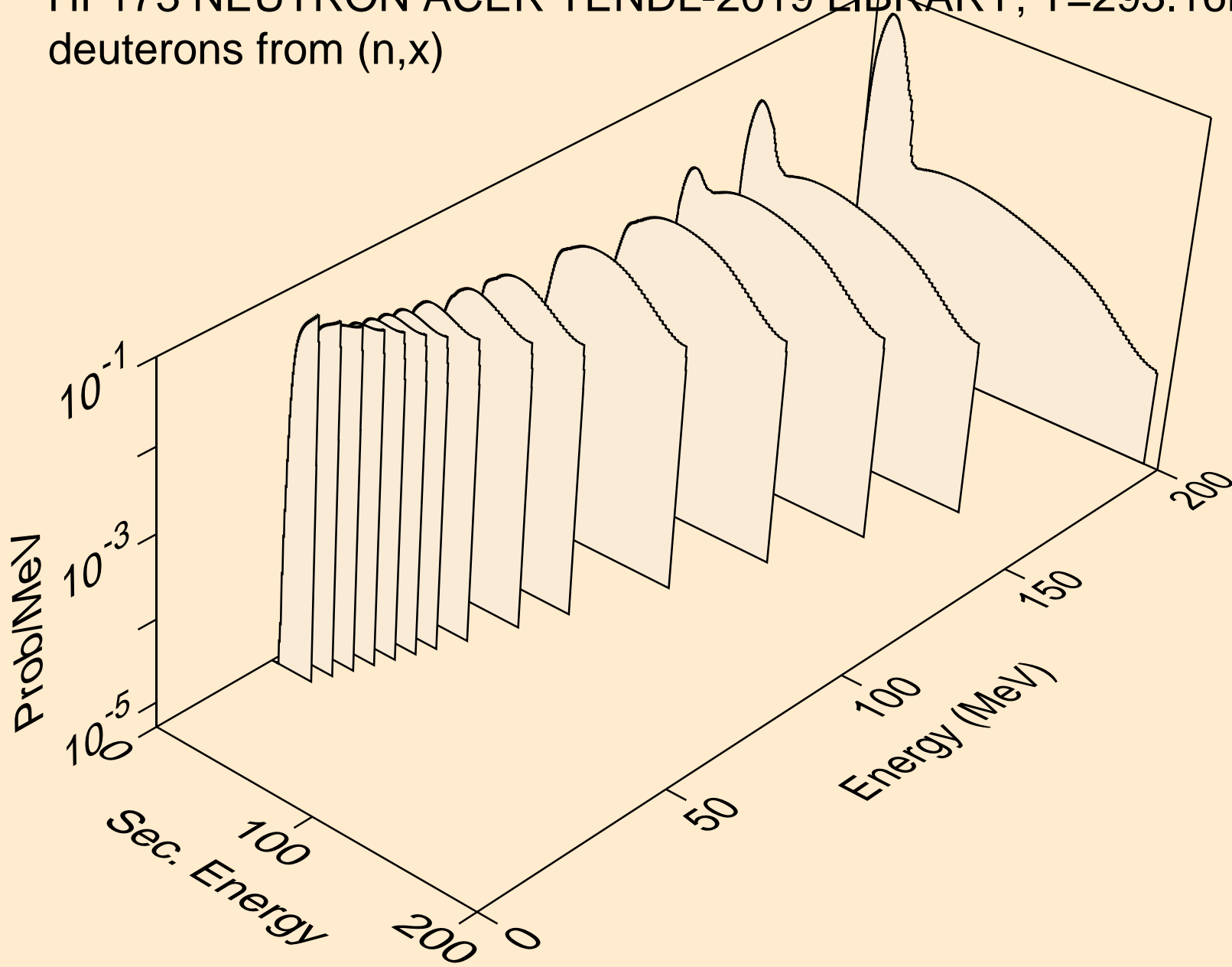
HF173 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
protons from (n,pd)



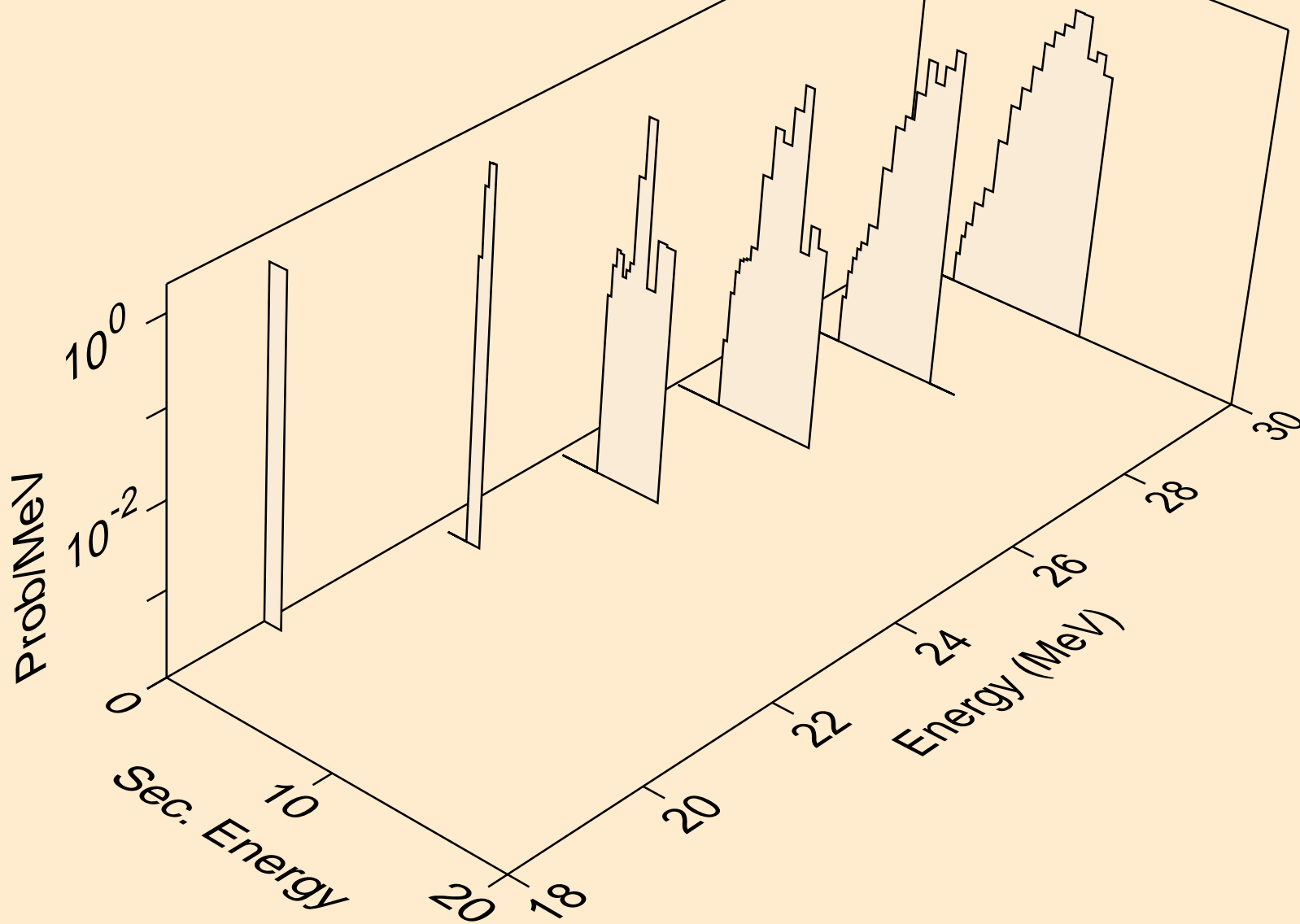
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protons from (n,pt)



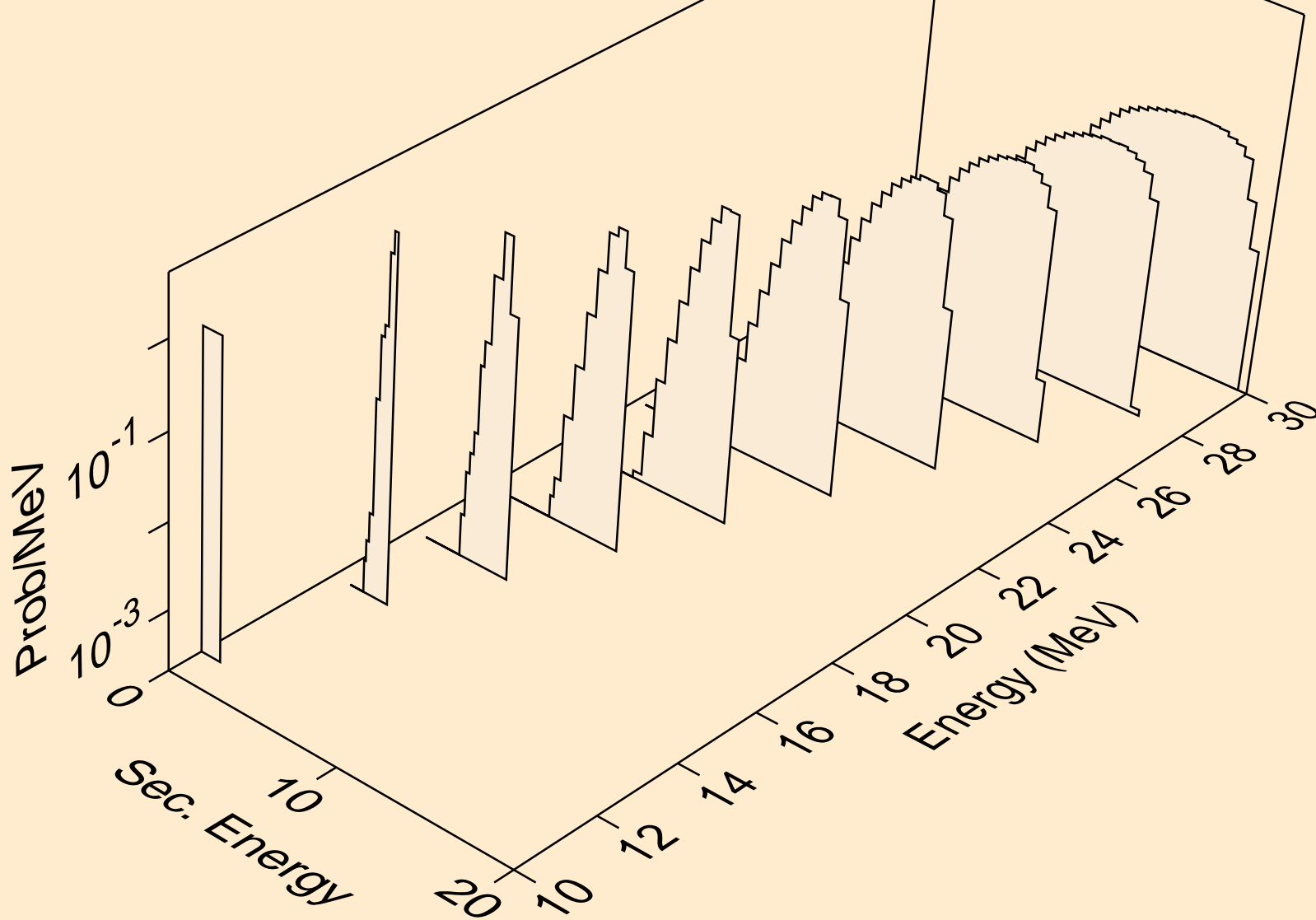
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deuterons from (n,x)



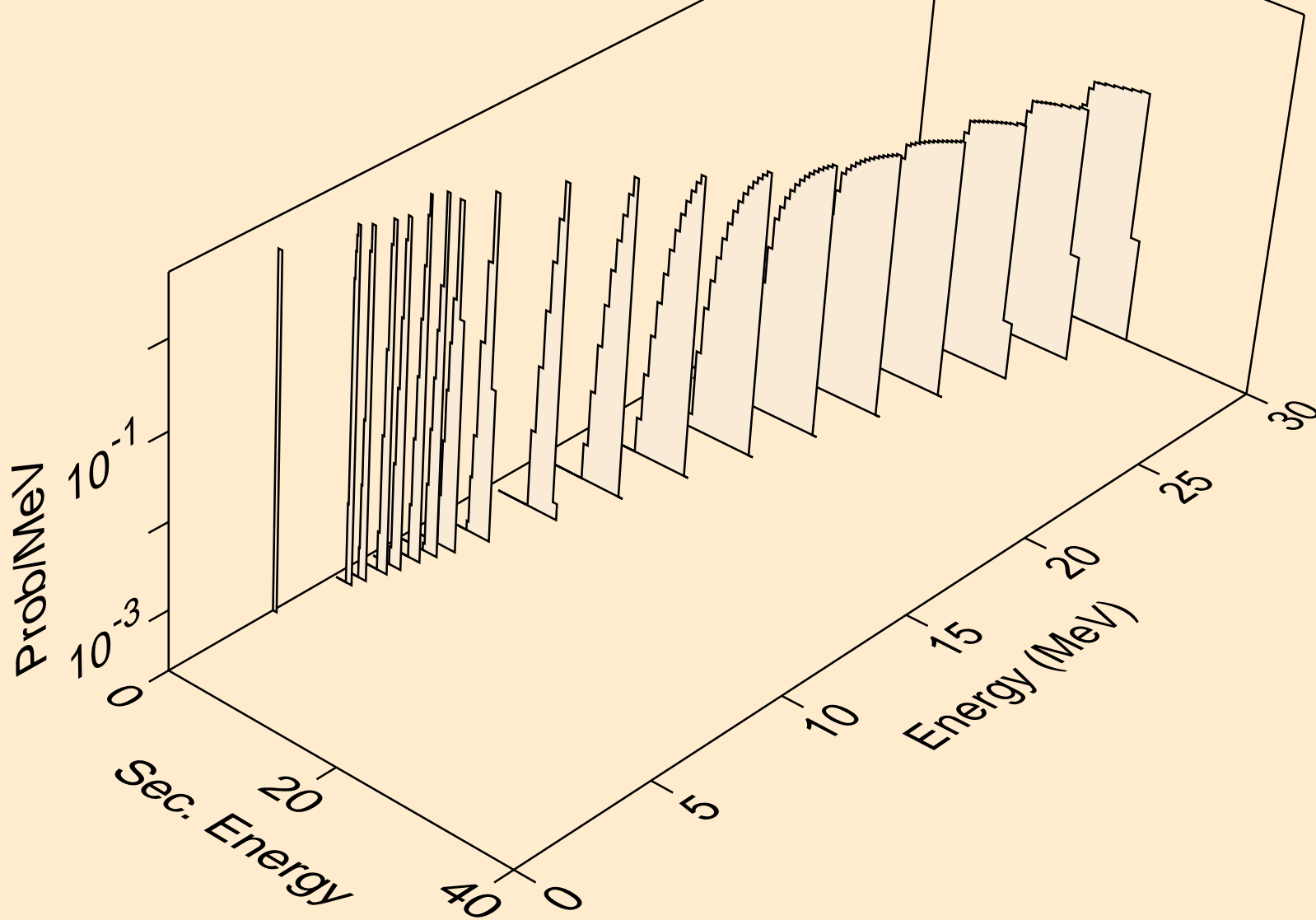
HF173 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
deuterons from (n,2nd)



HF173 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
deuterons from (n,n\*)d

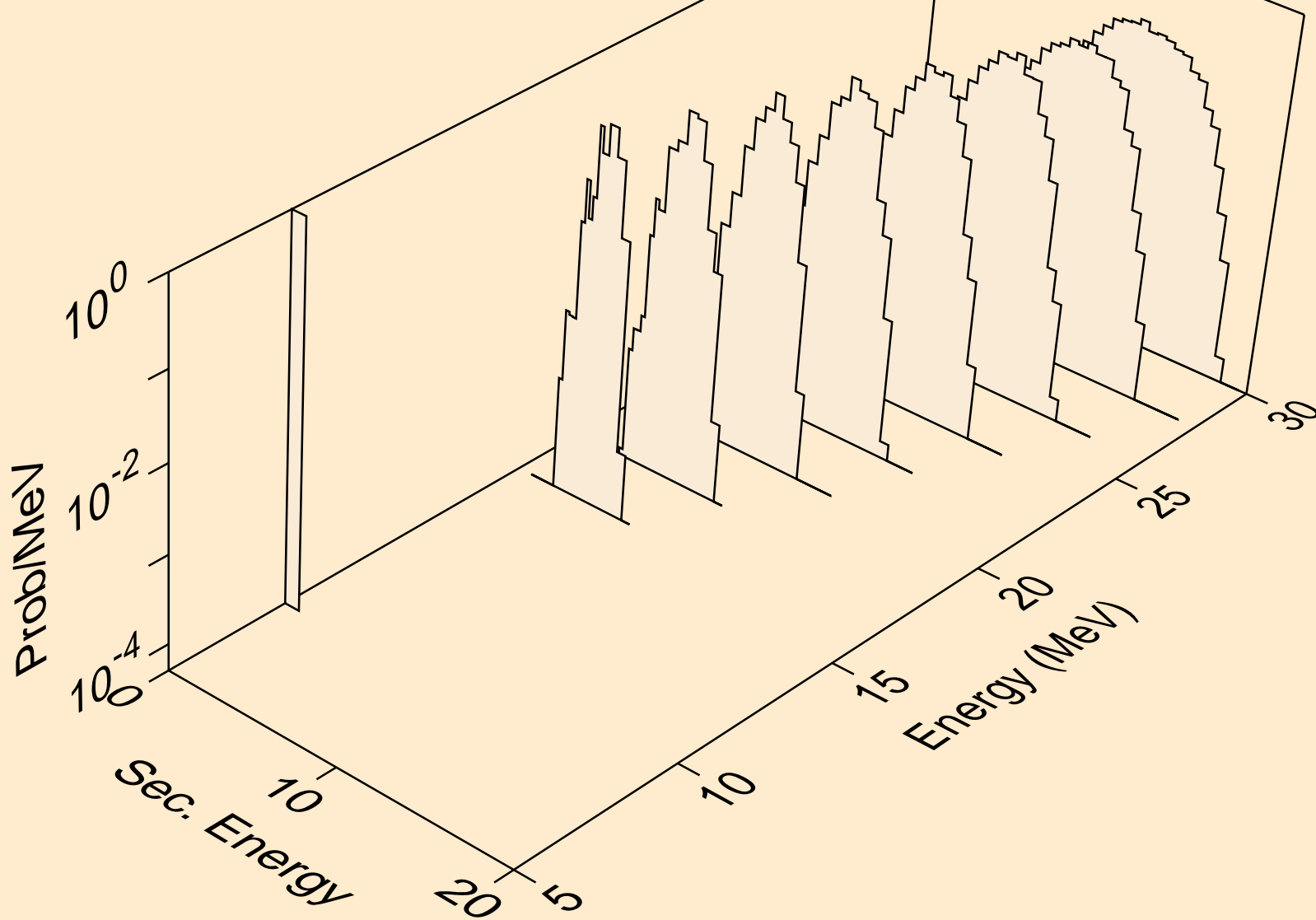


HF173 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
deuterons from (n,d)

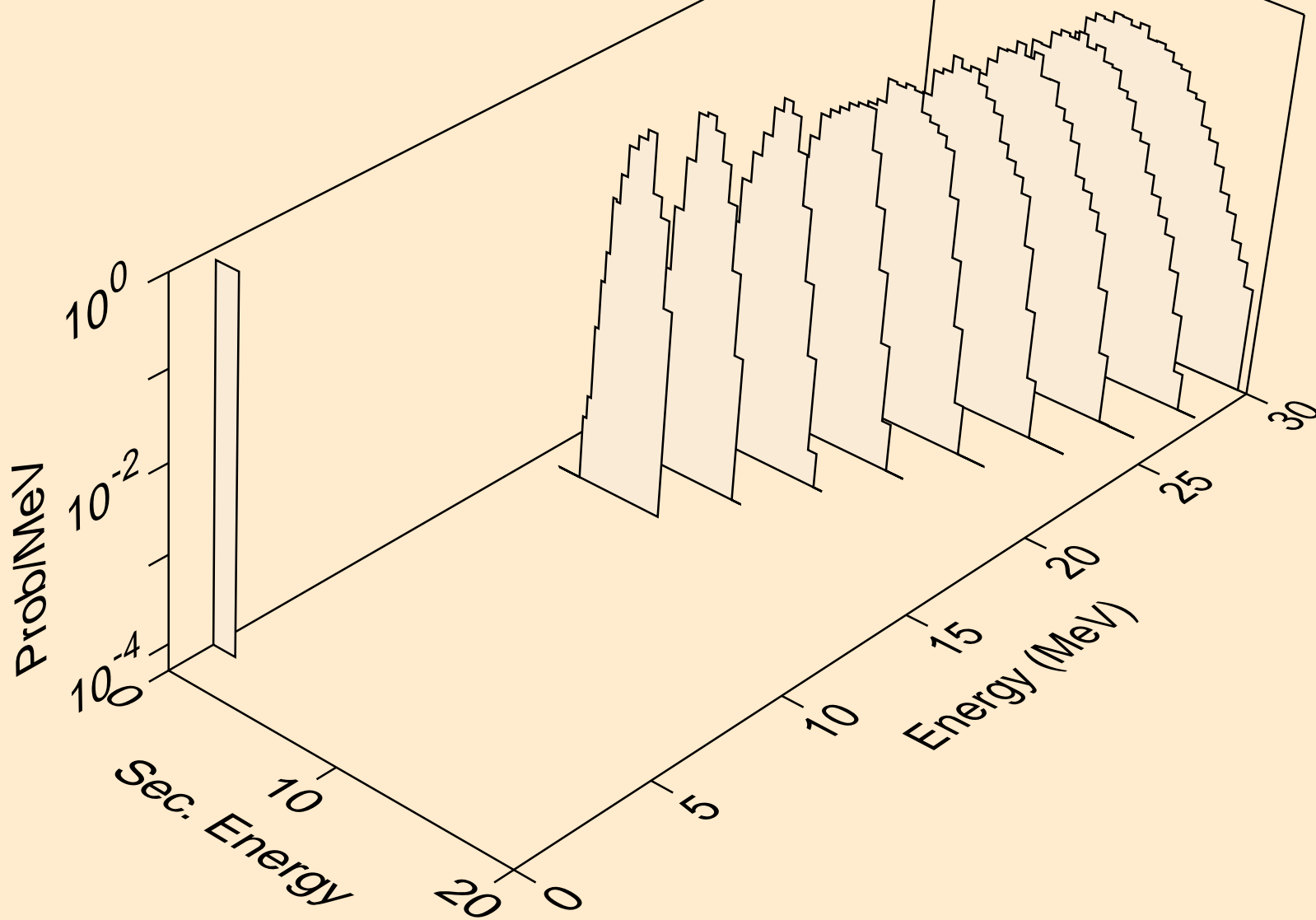




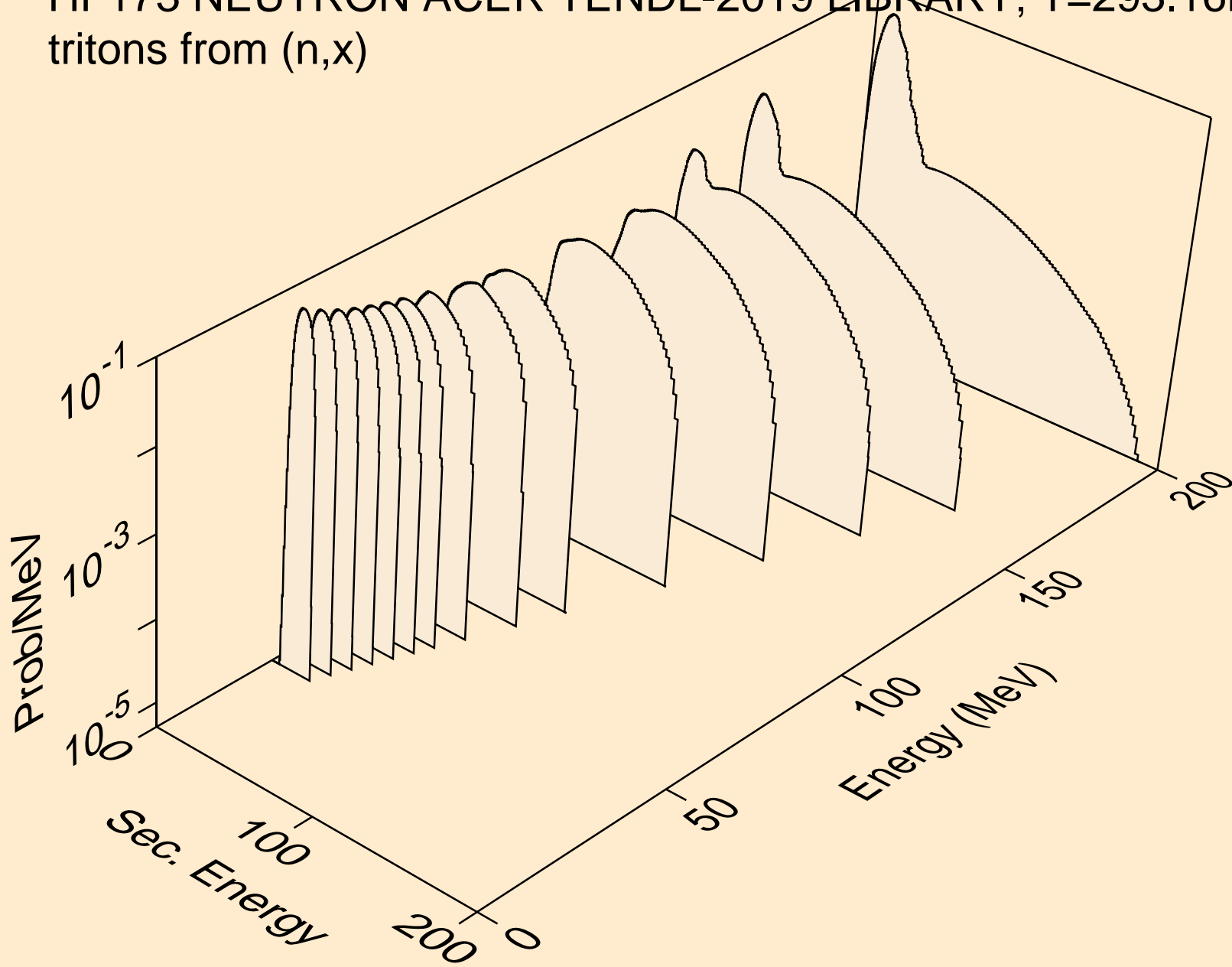
HF173 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
deuterons from (n,pd)



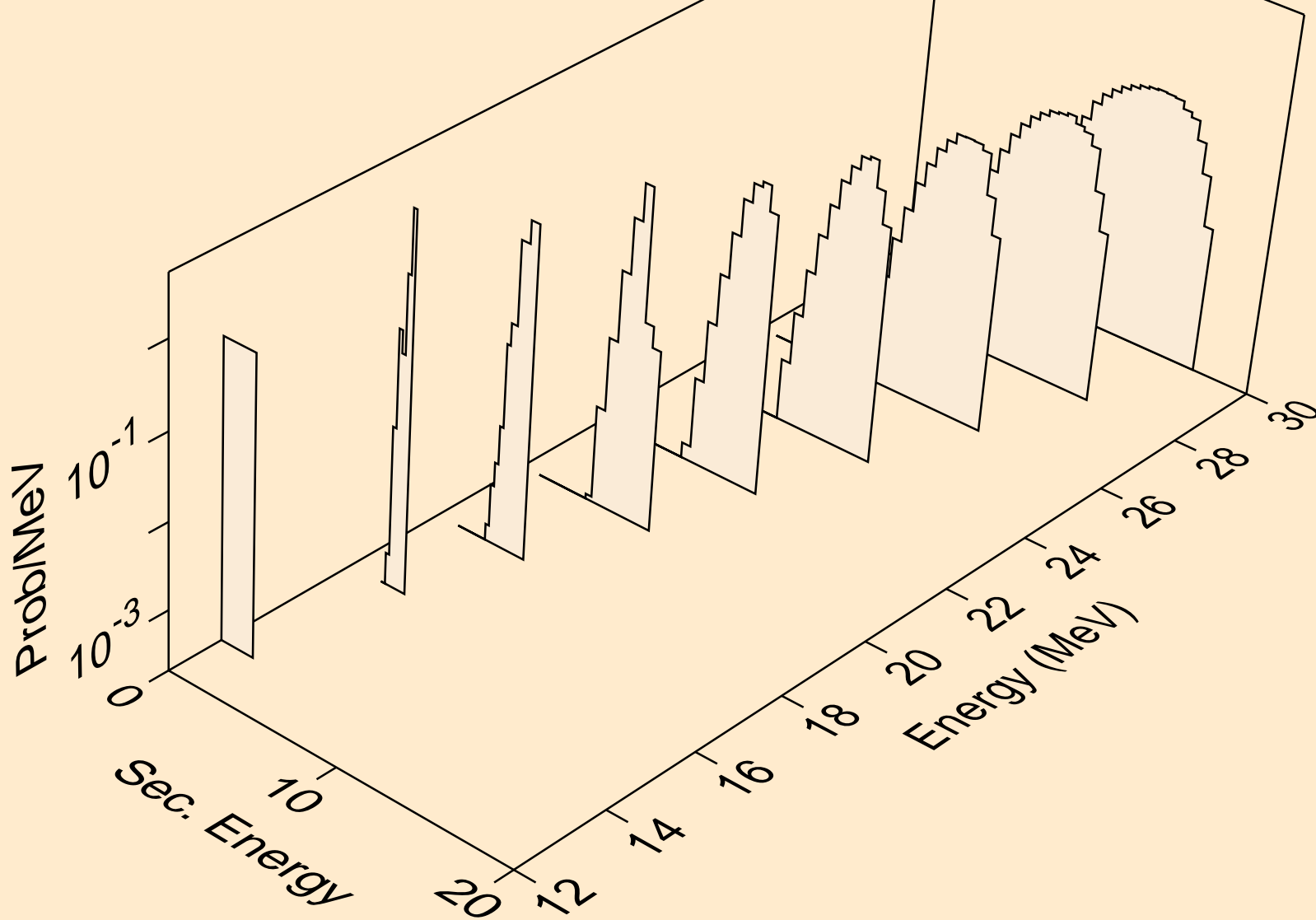
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deuterons from (n,da)



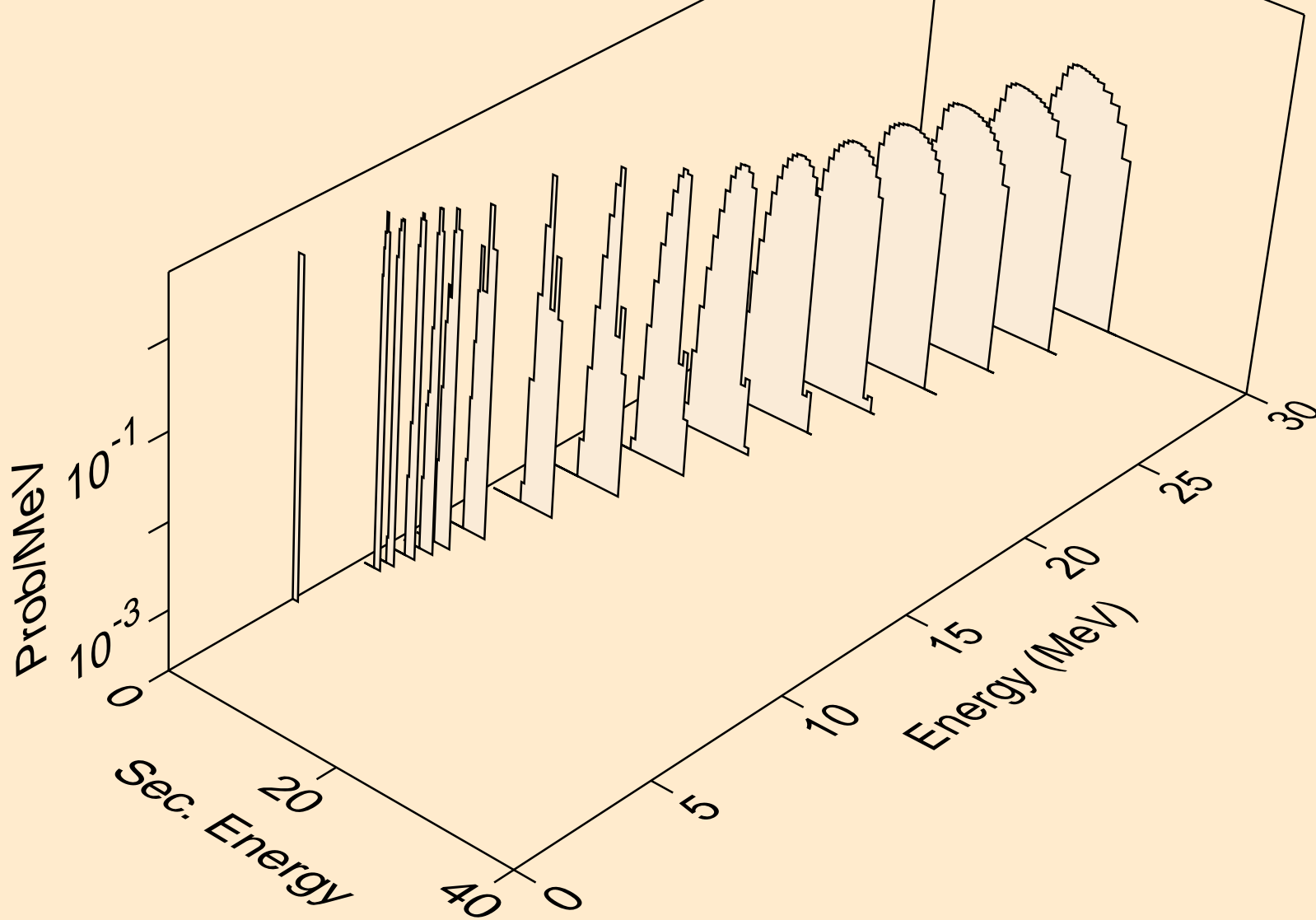
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tritons from (n,x)



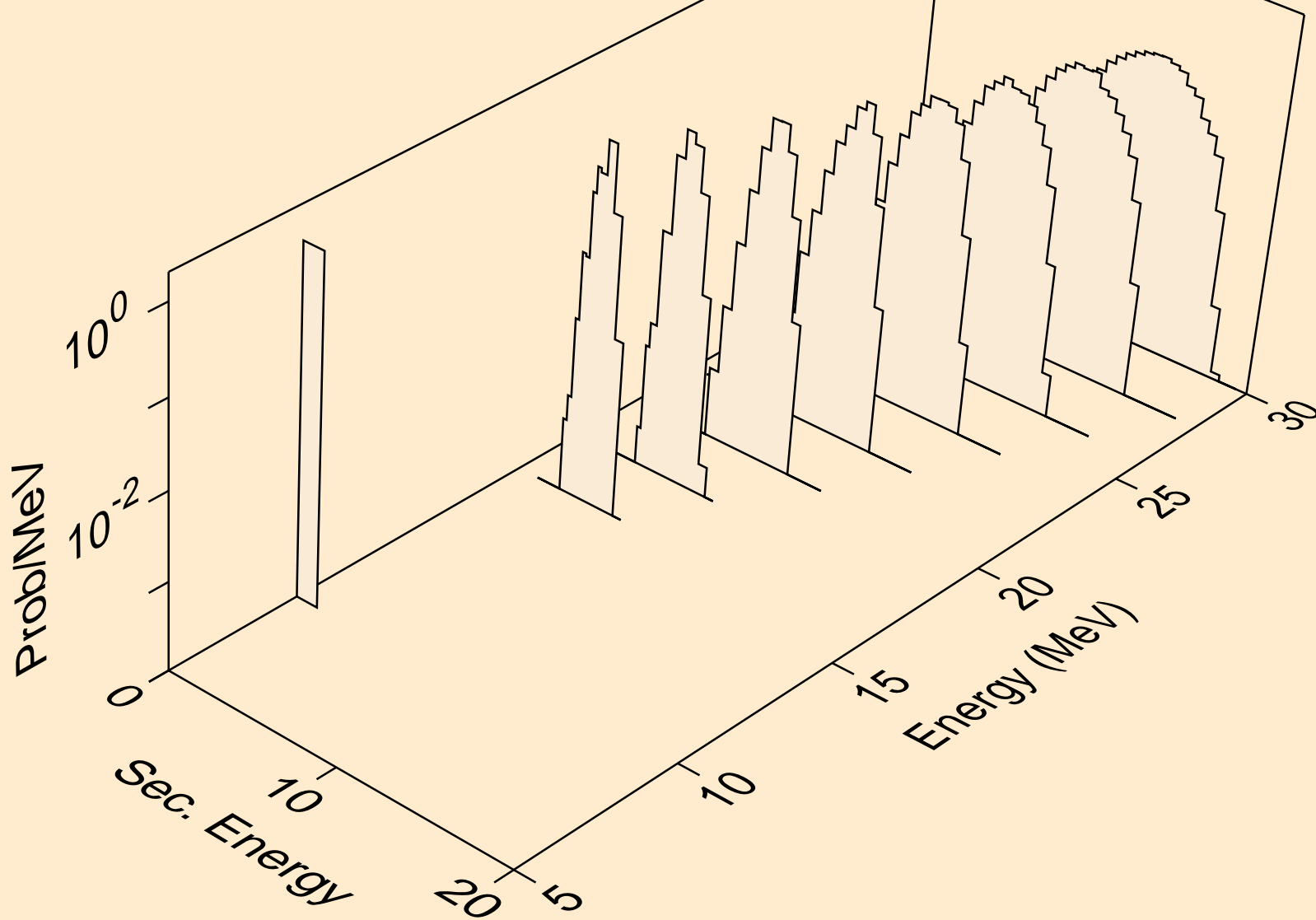
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tritons from (n,n\*)t



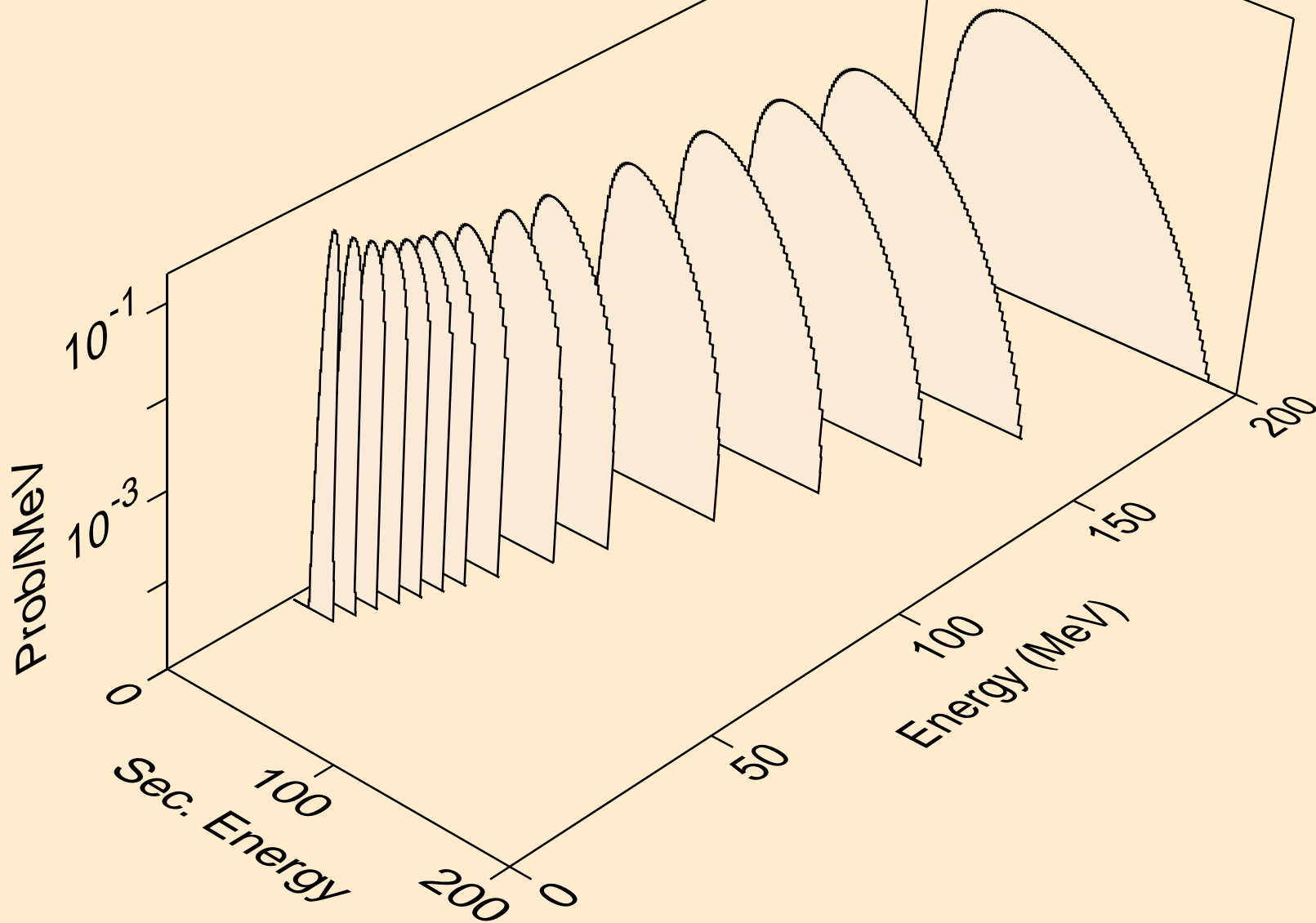
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tritons from (n,t)



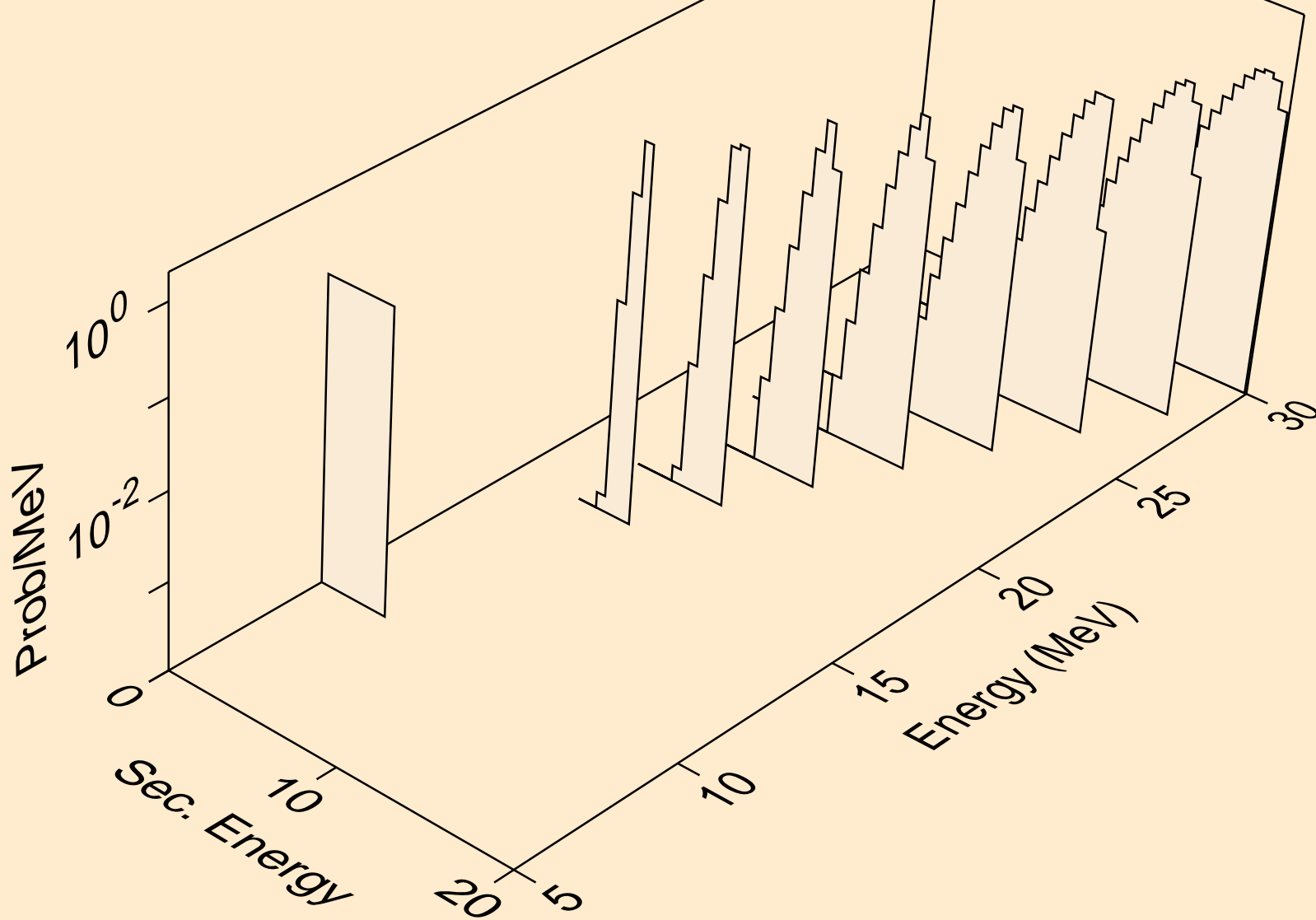
HF173 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
tritons from (n,pt)



HF173 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
he3s from (n,x)

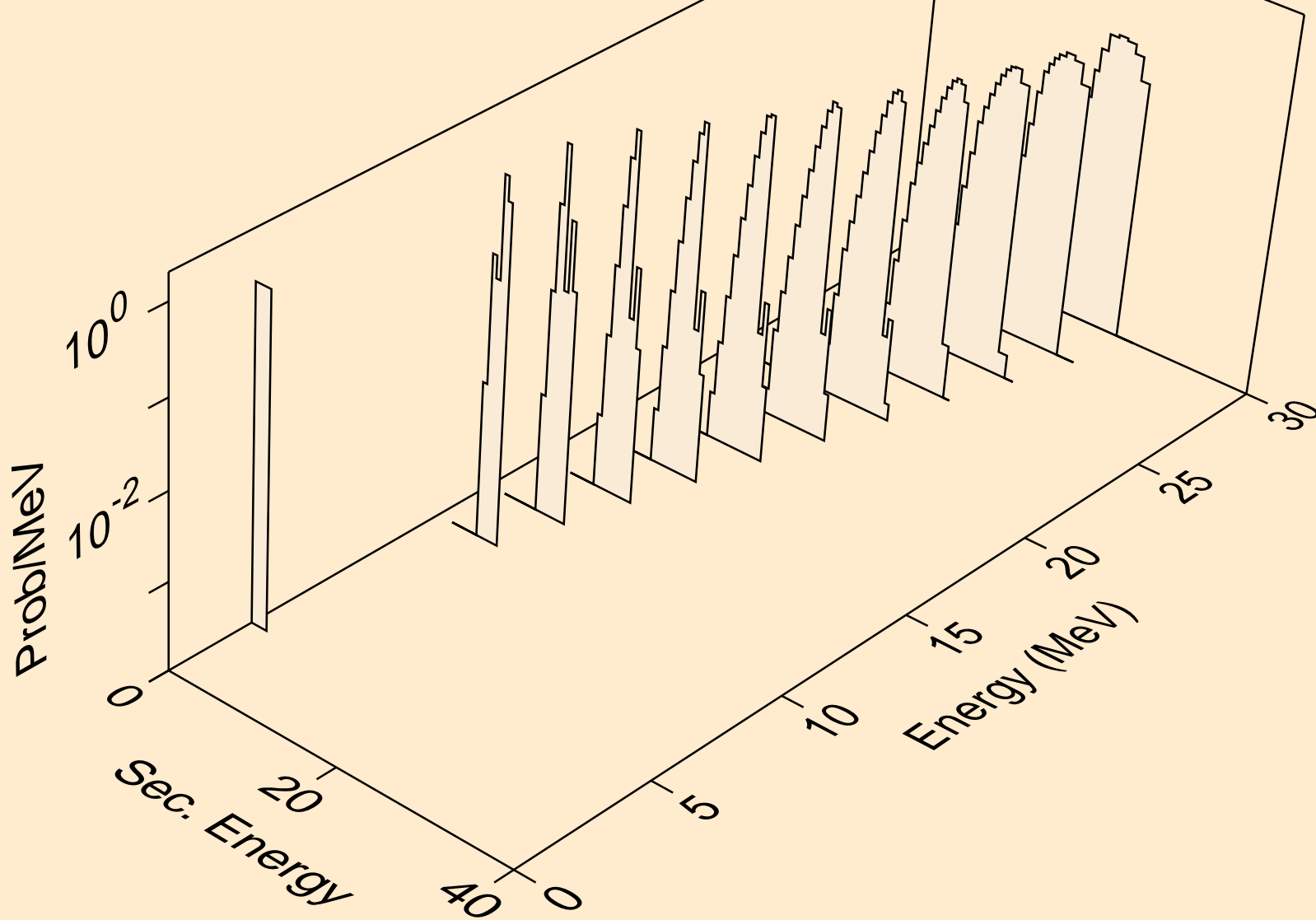


HF173 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
he3s from (n,n\*)he3

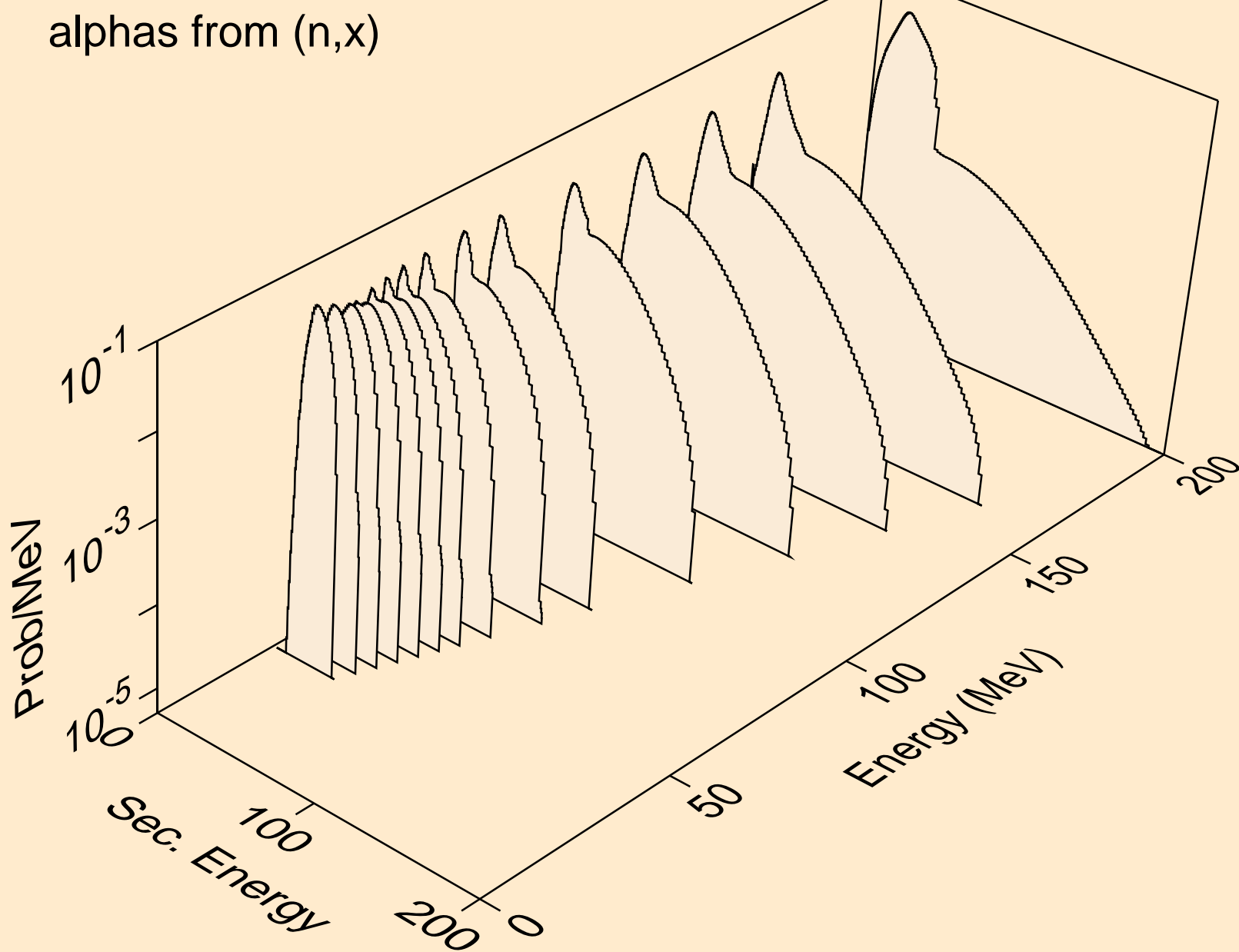




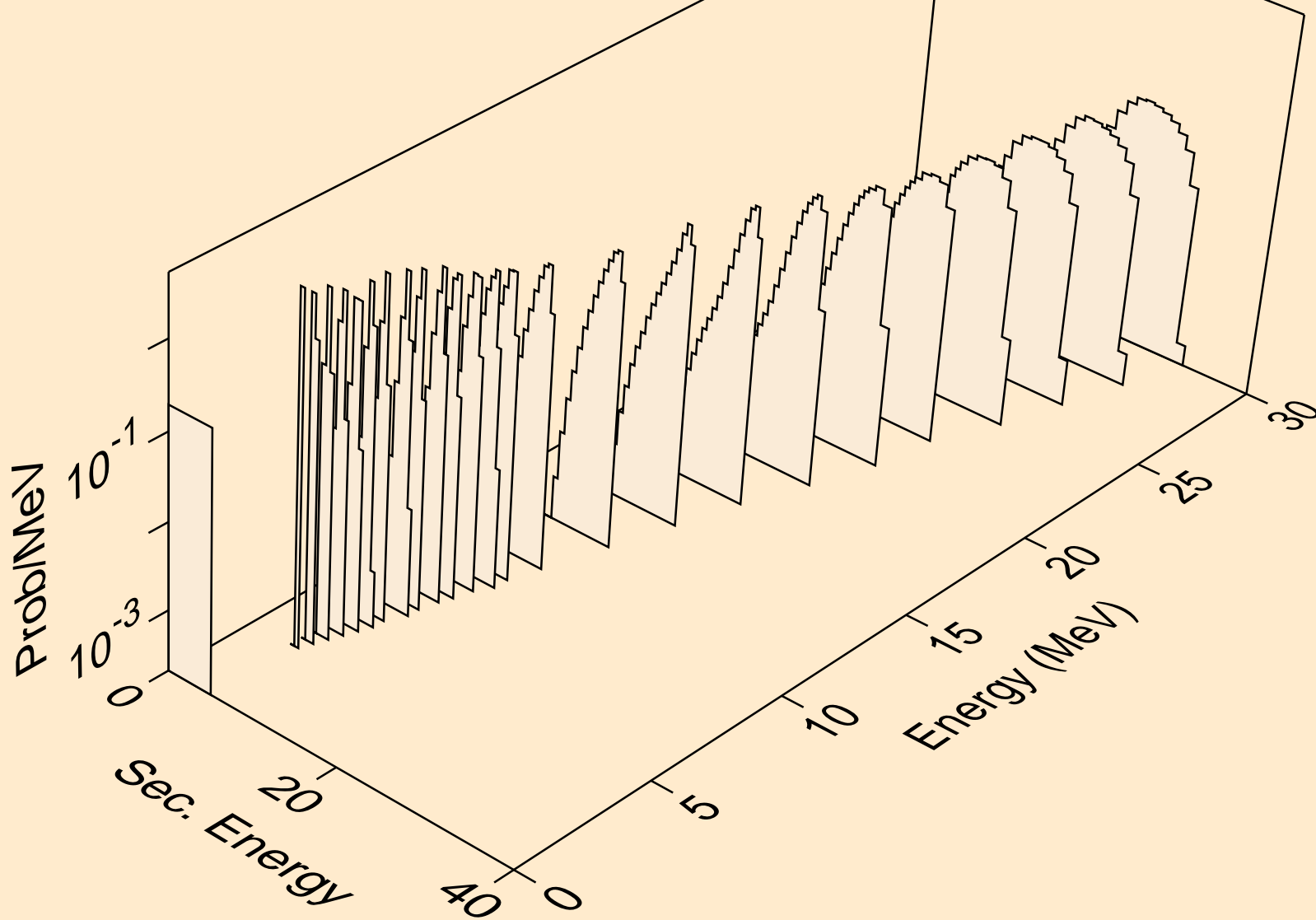
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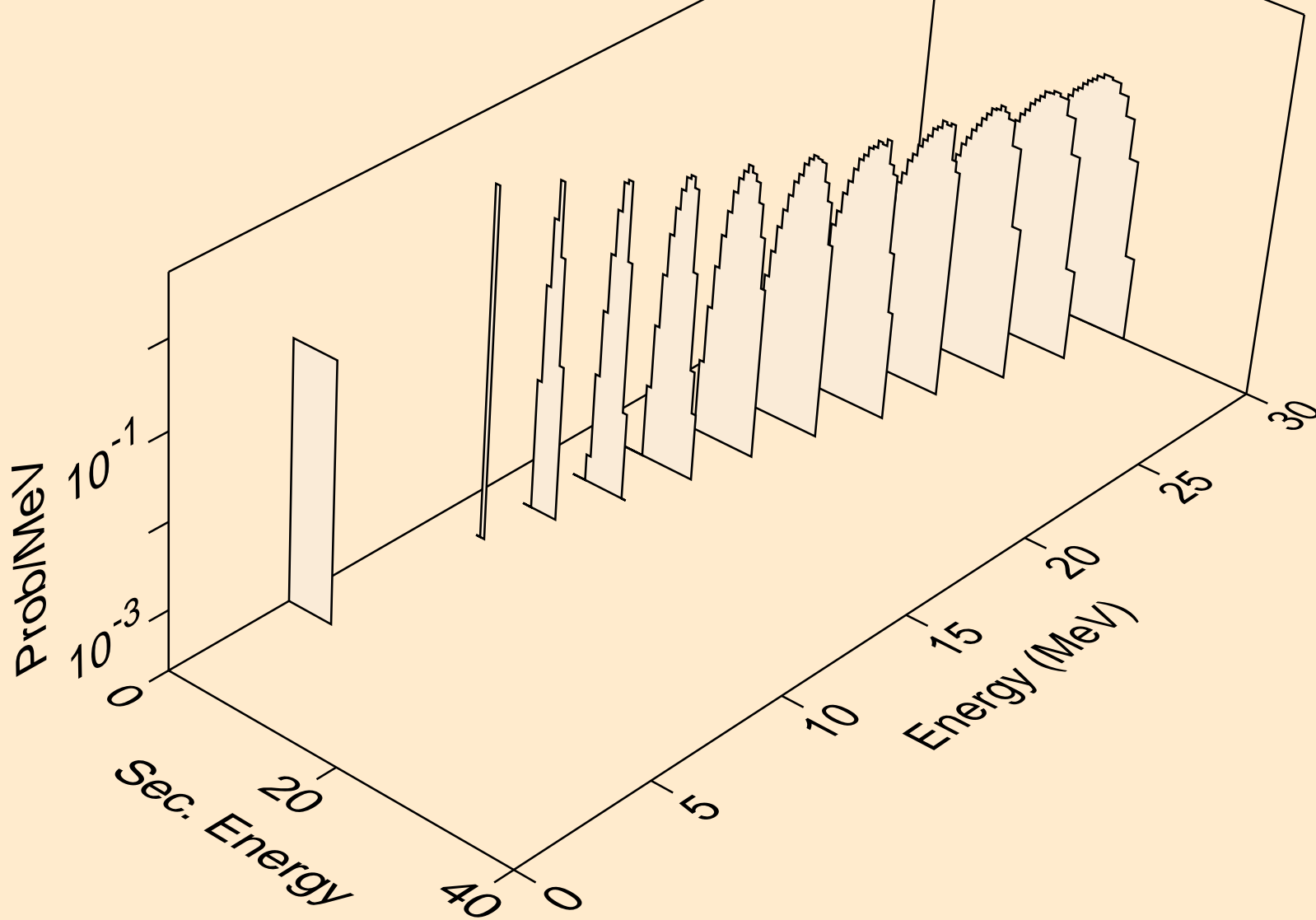
HF173 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
alphas from (n,x)



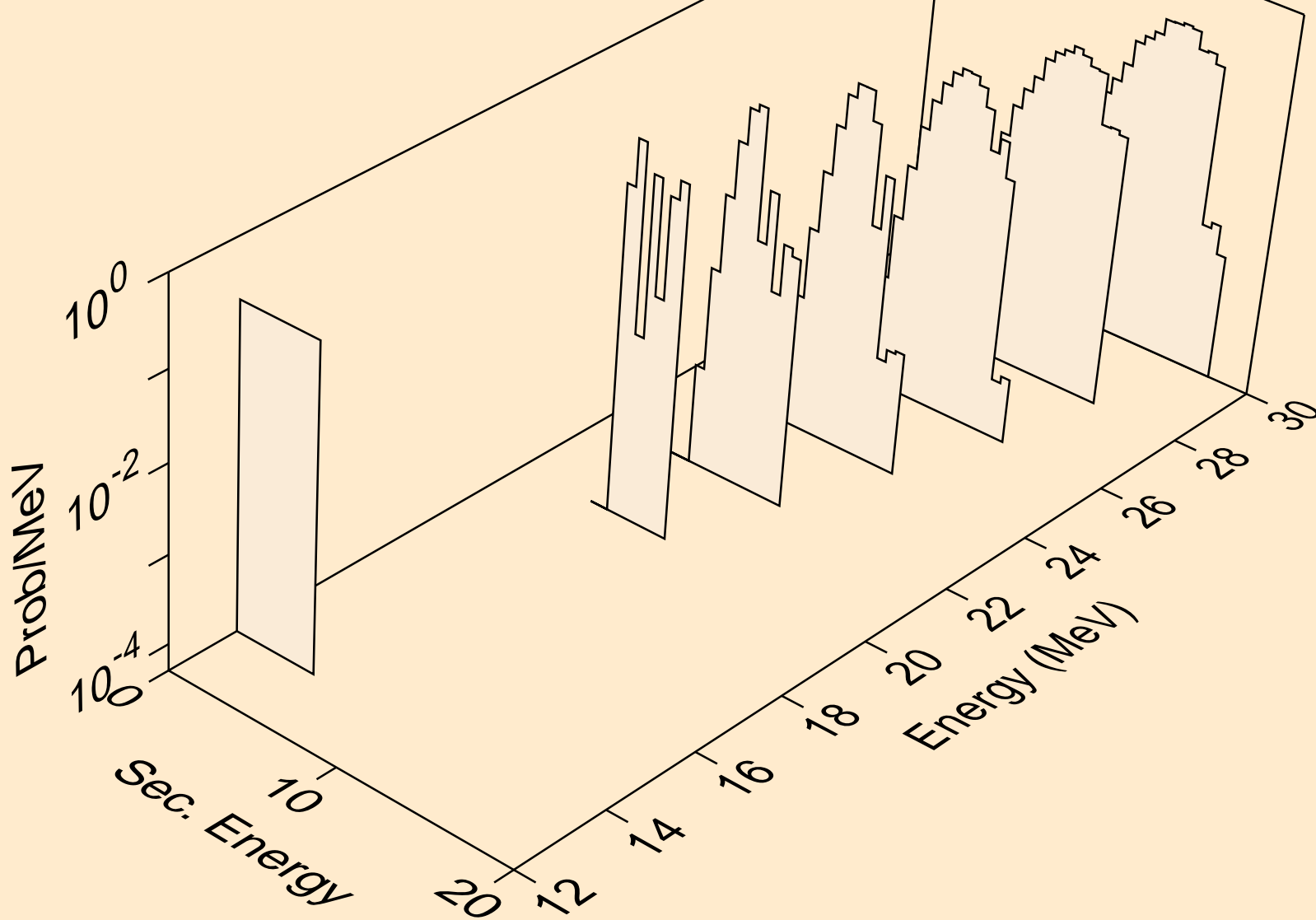
HF173 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
alphas from (n,n\*)a



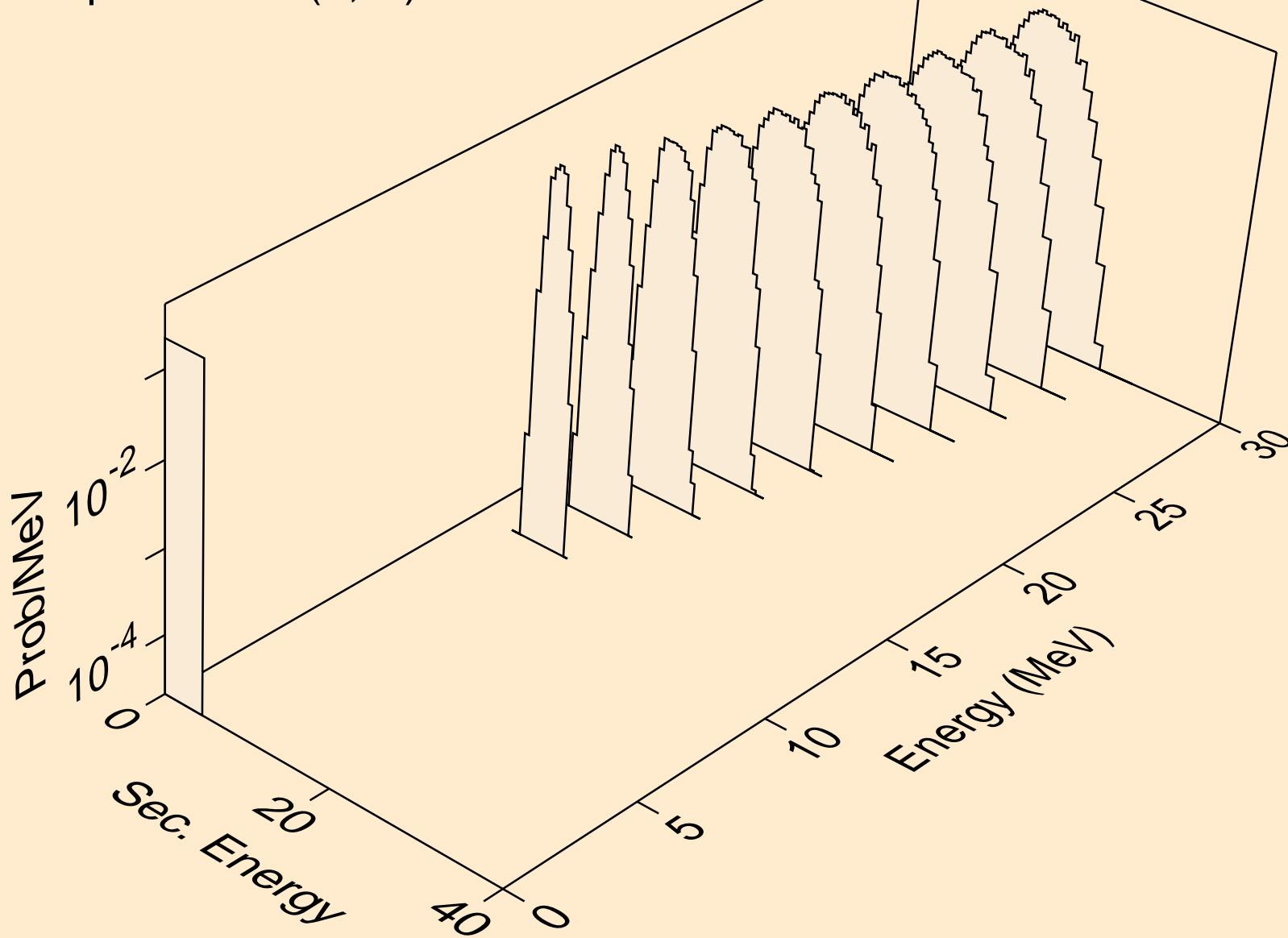
HF173 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
alphas from (n,2n)a



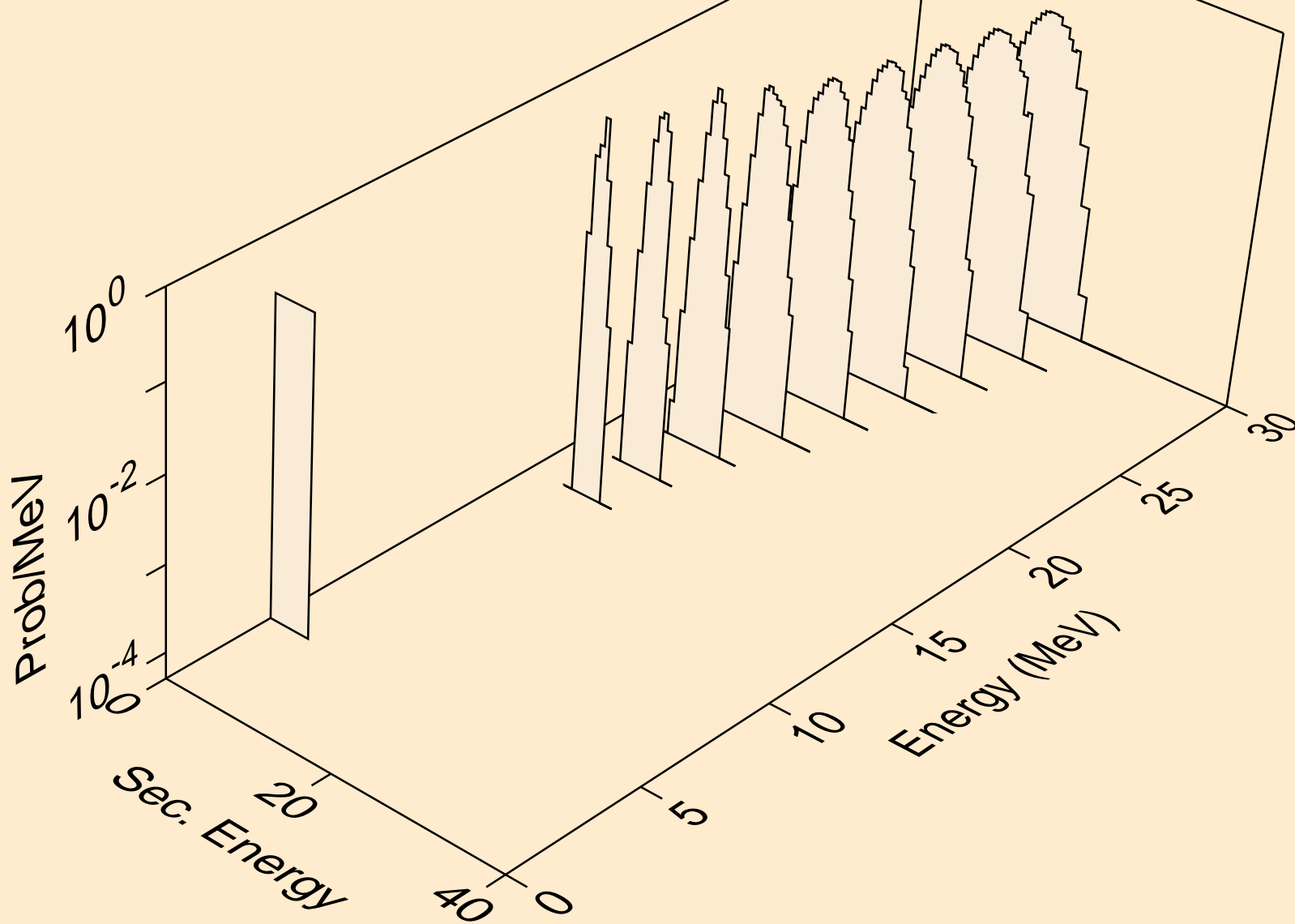
HF173 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
alphas from (n,3n)a



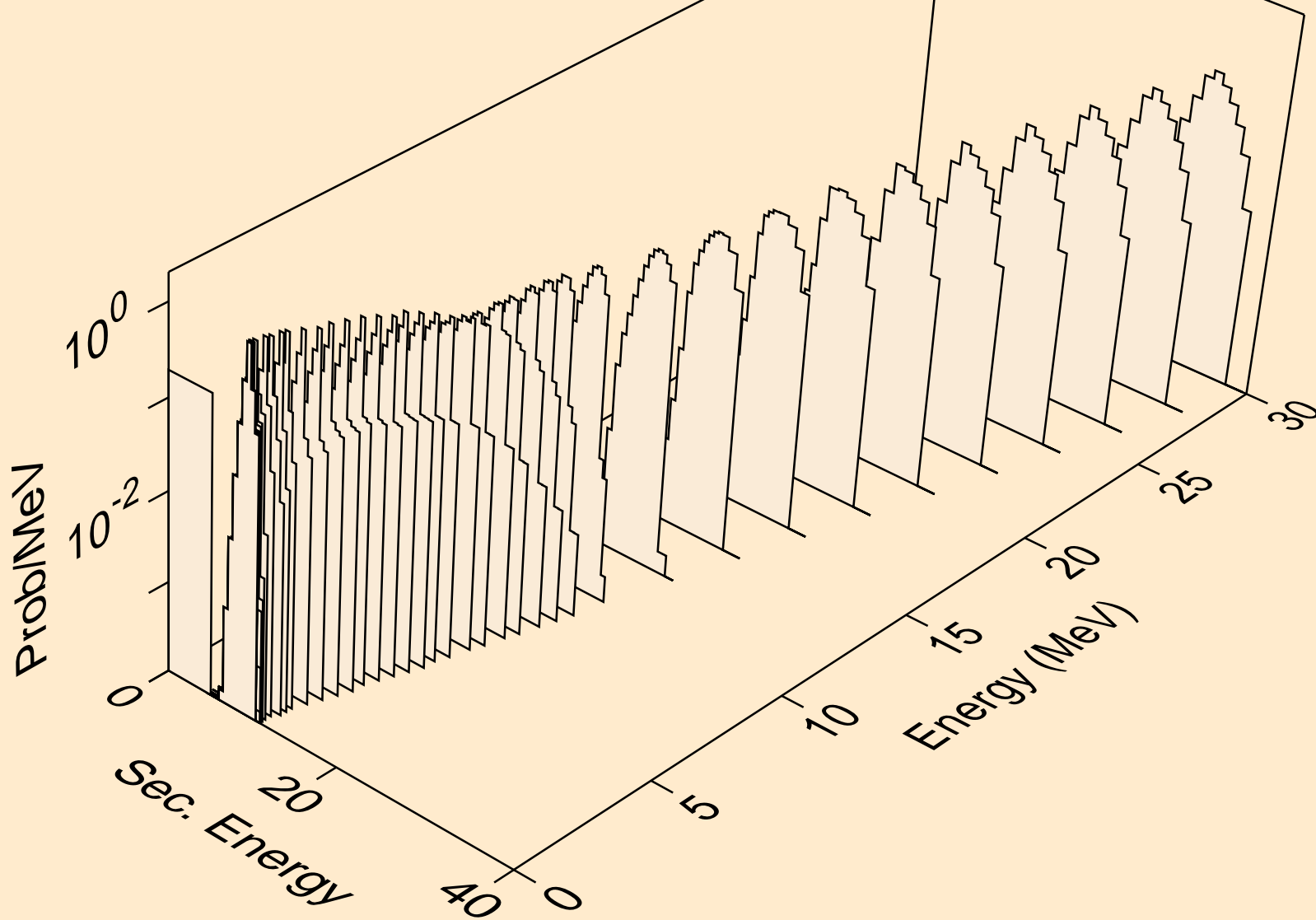
HF173 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
alphas from (n,n\*)2a



HF173 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
alphas from (n,npa)

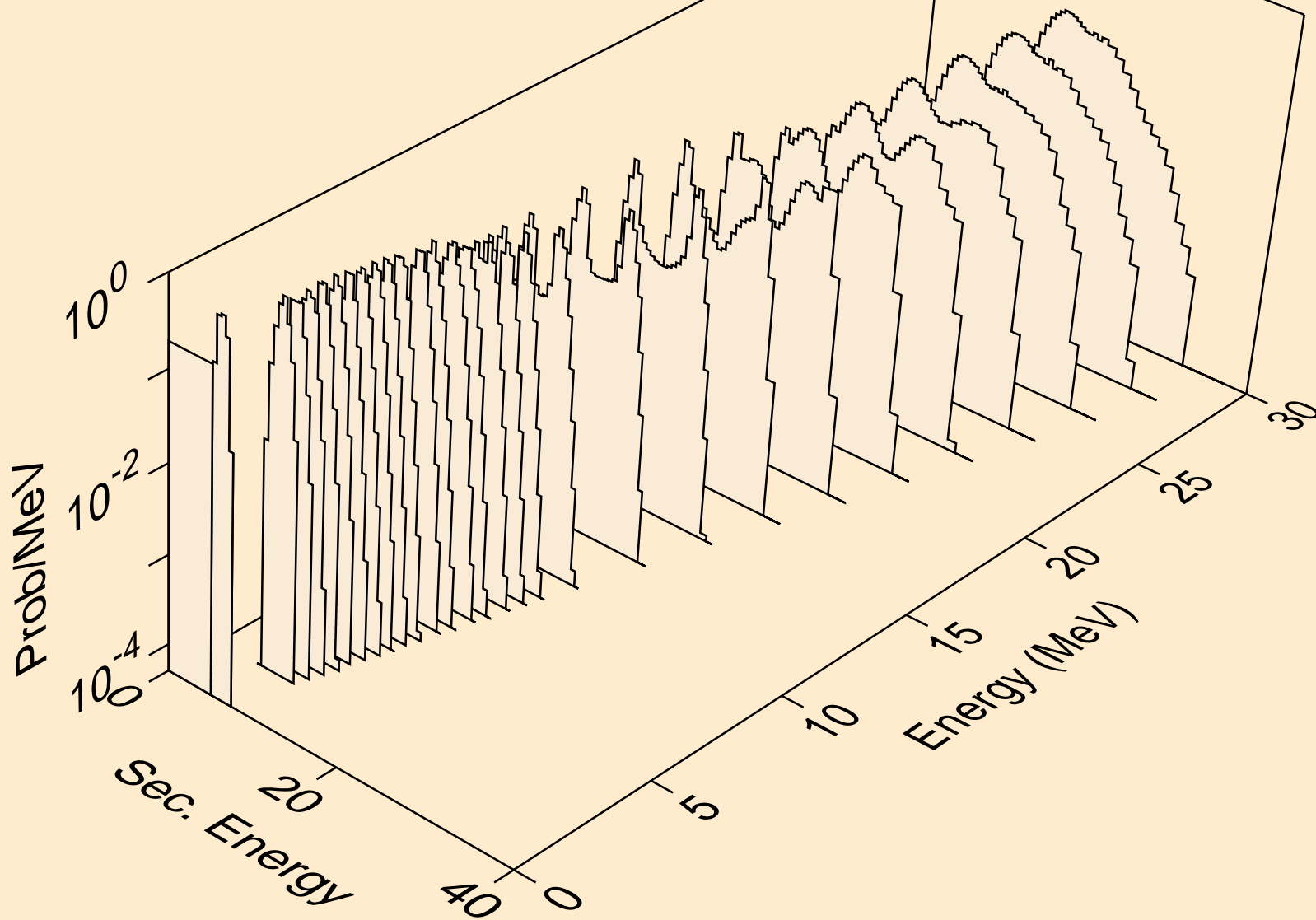


HF173 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
alphas from (n,a)

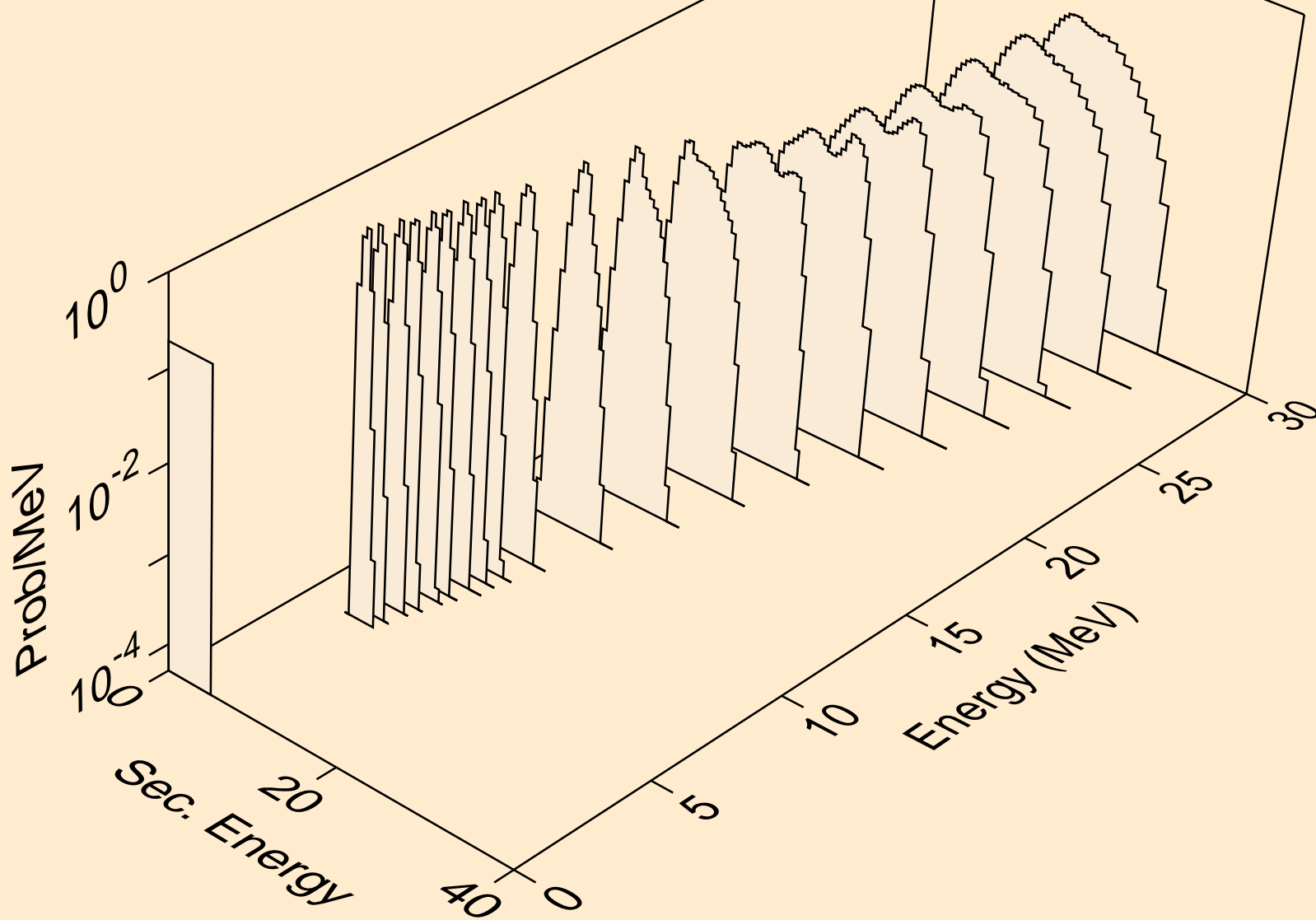




HF173 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
alphas from (n,2a)



HF173 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
alphas from (n,pa)



HF173 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
alphas from (n,da)

