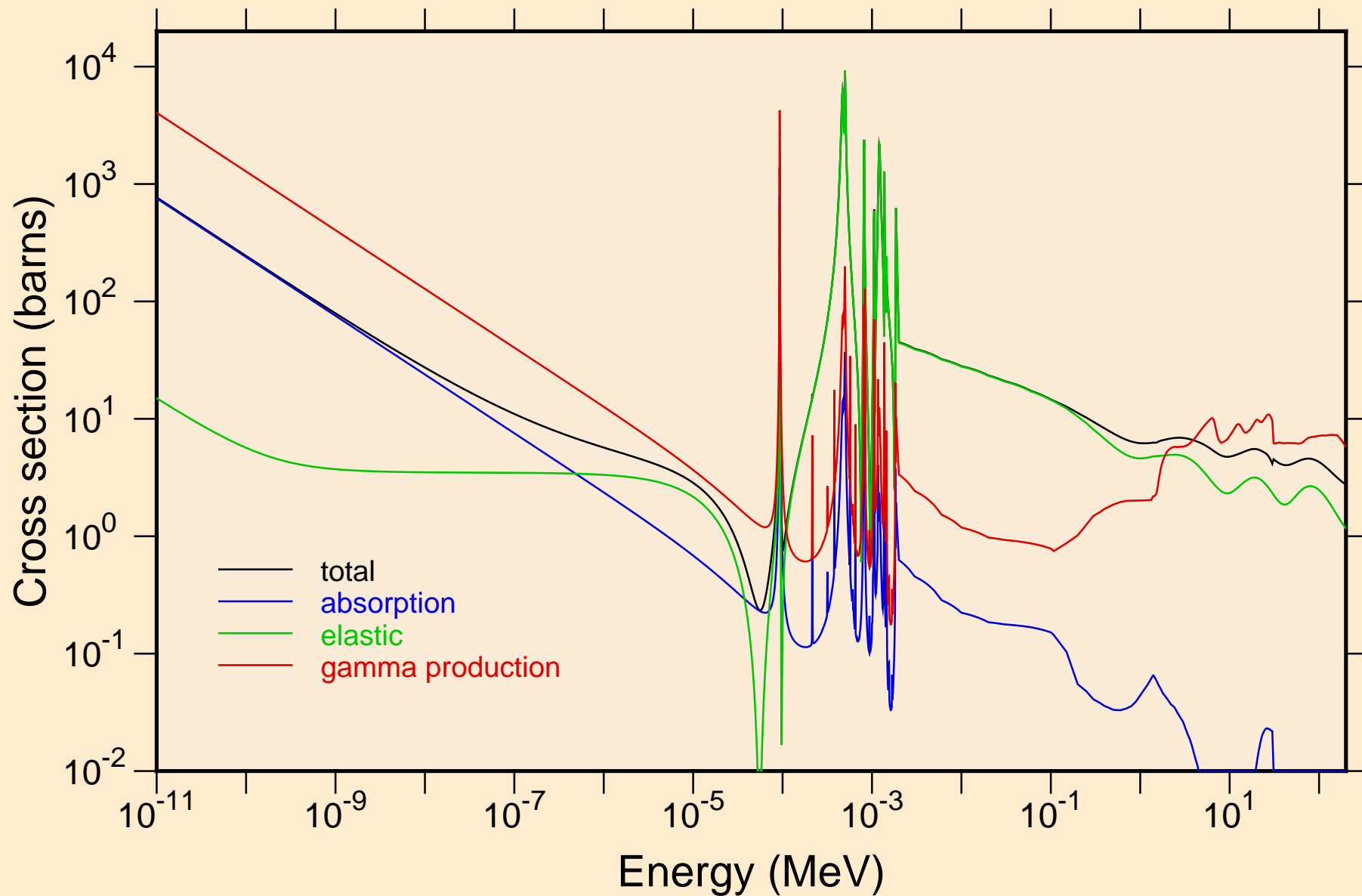
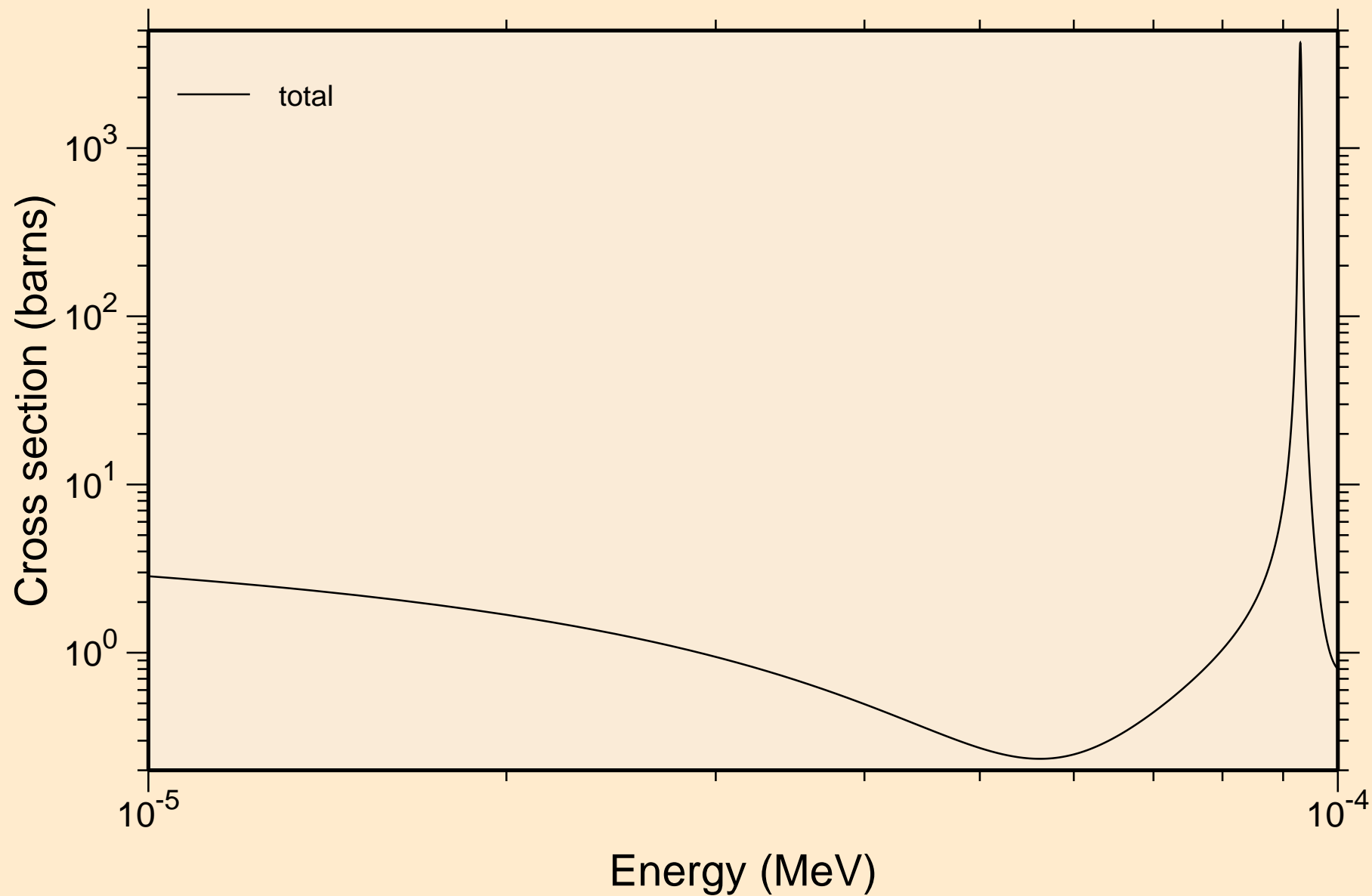


# HF184 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K

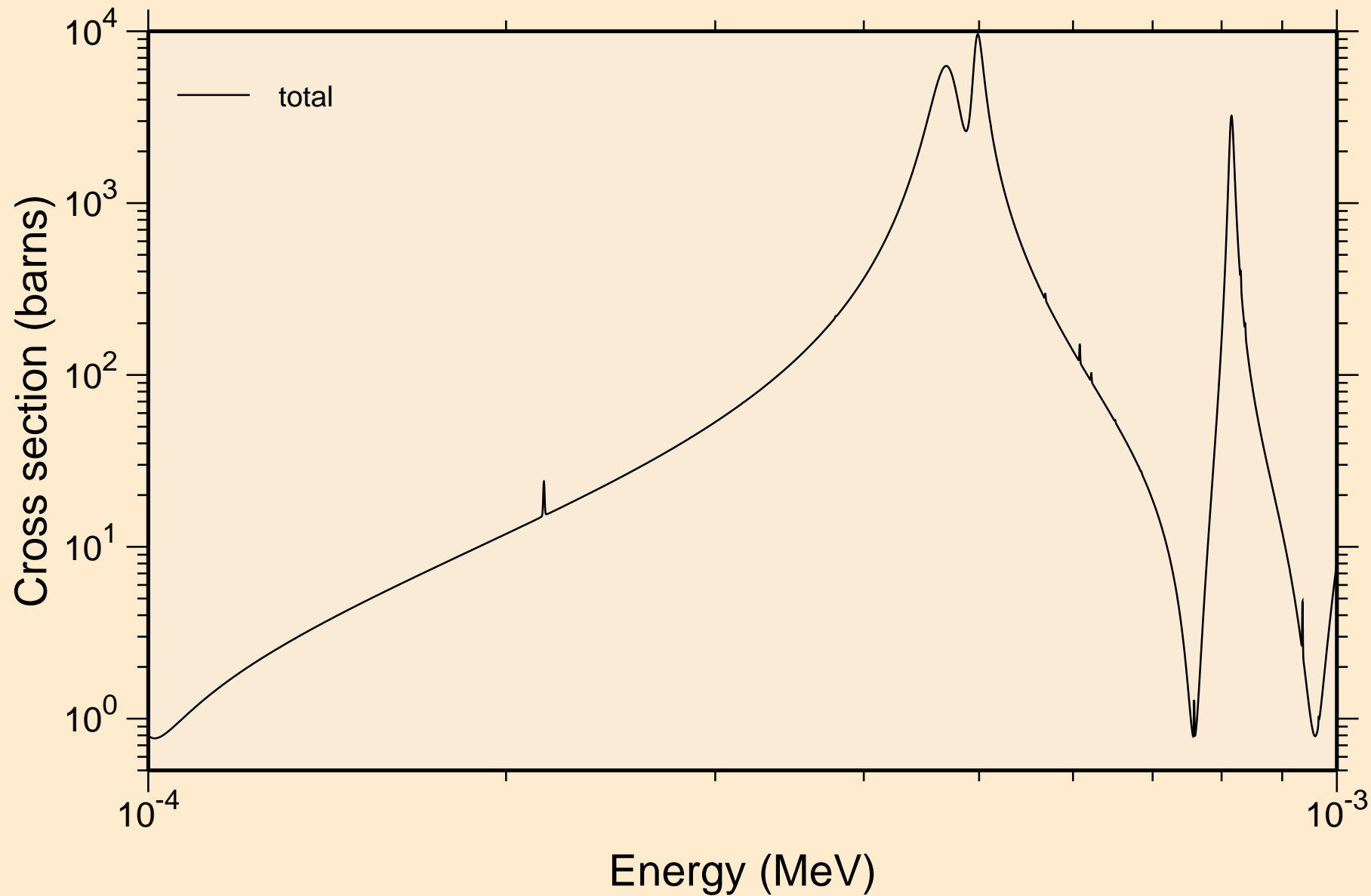
## Principal cross sections



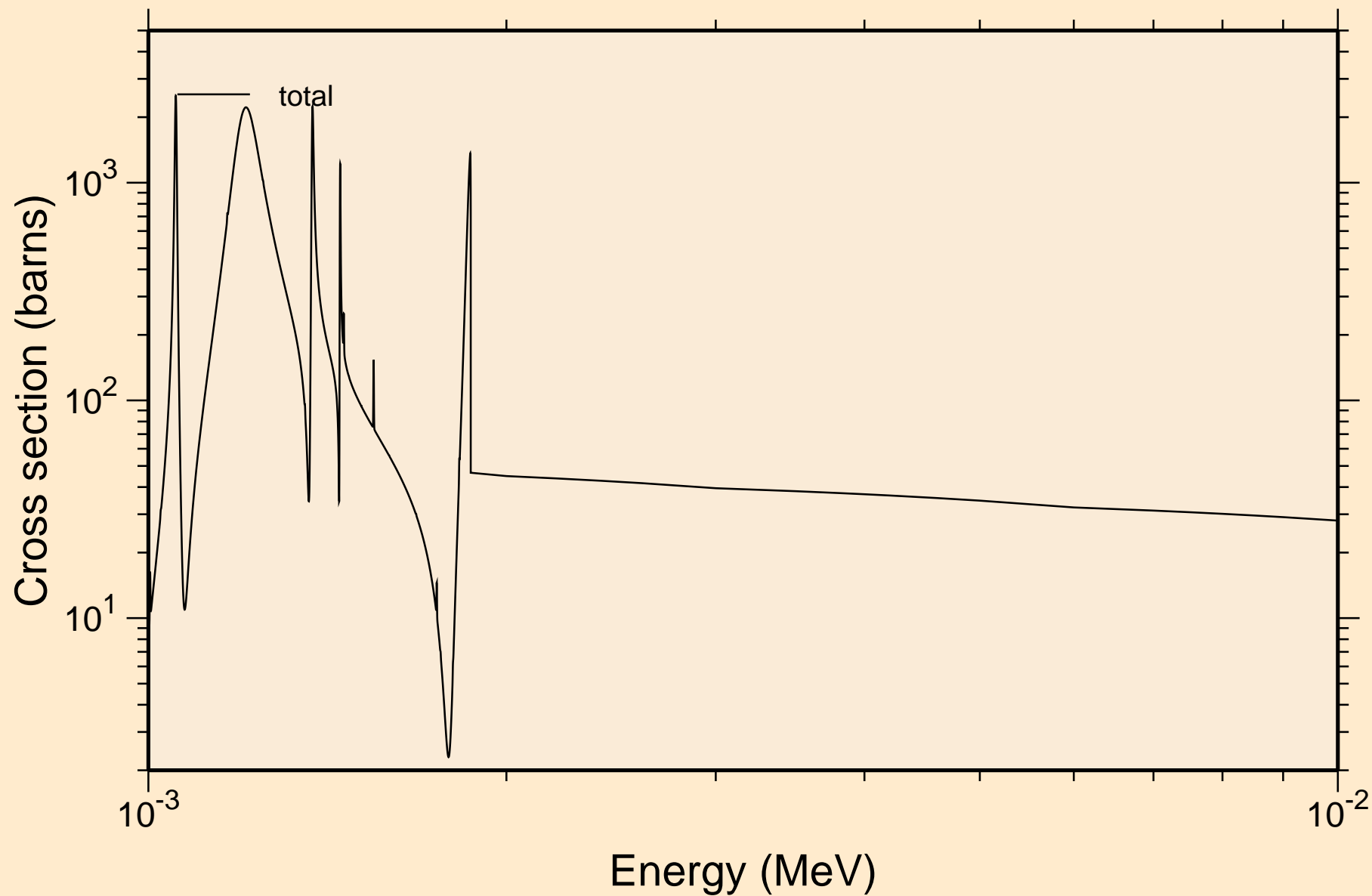
HF184 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
resonance total cross section



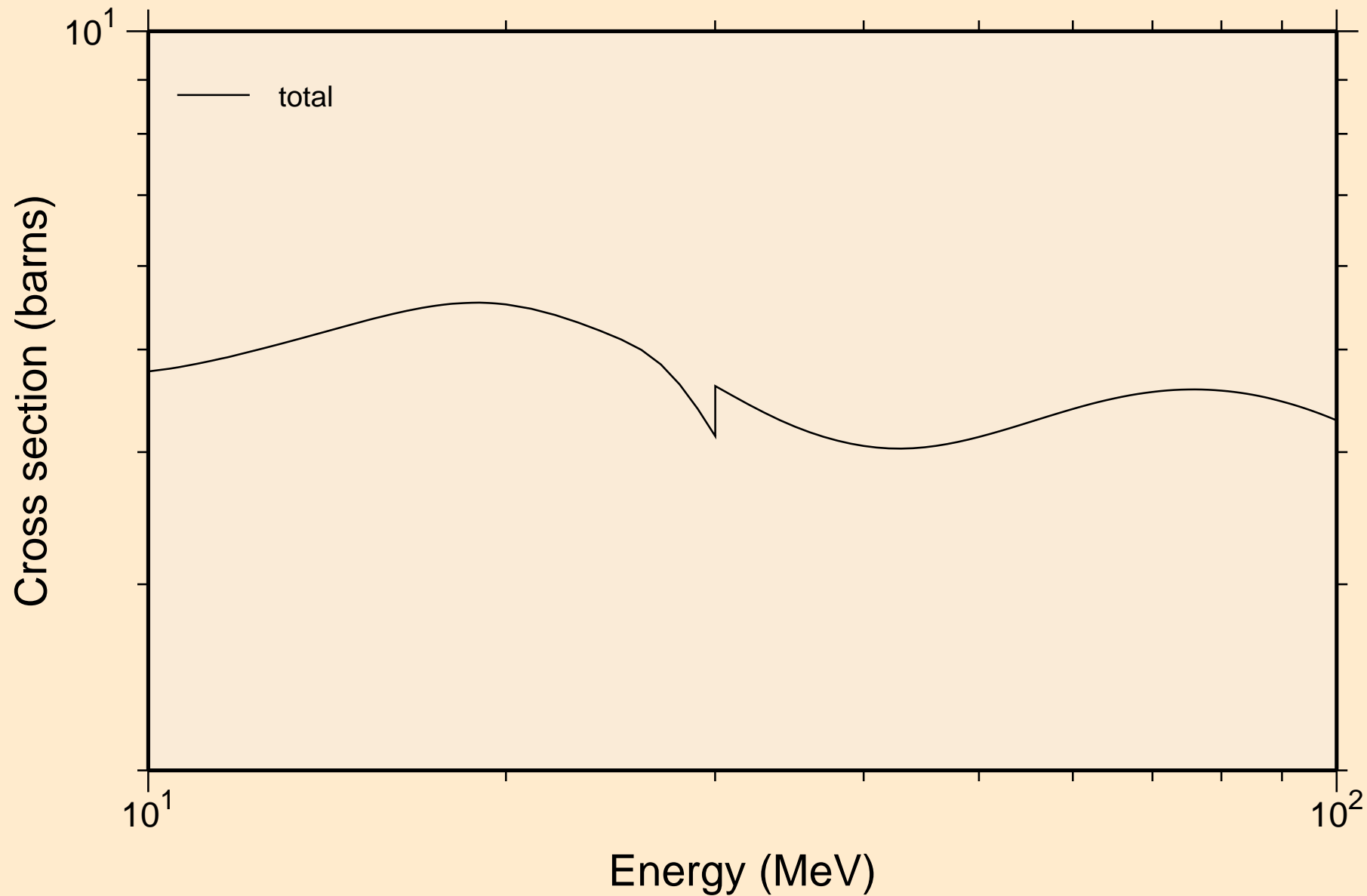
HF184 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
resonance total cross section



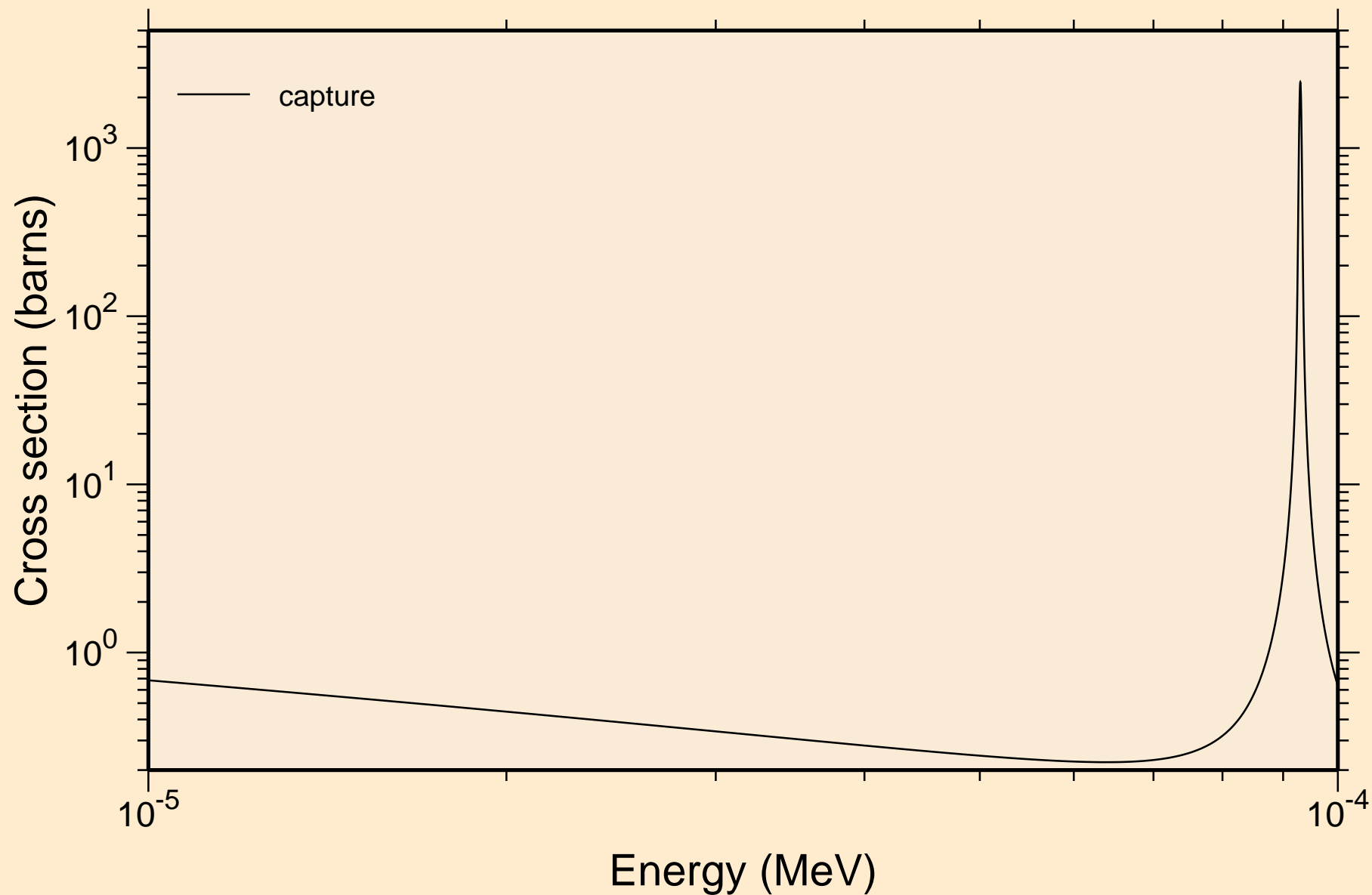
HF184 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
resonance total cross section



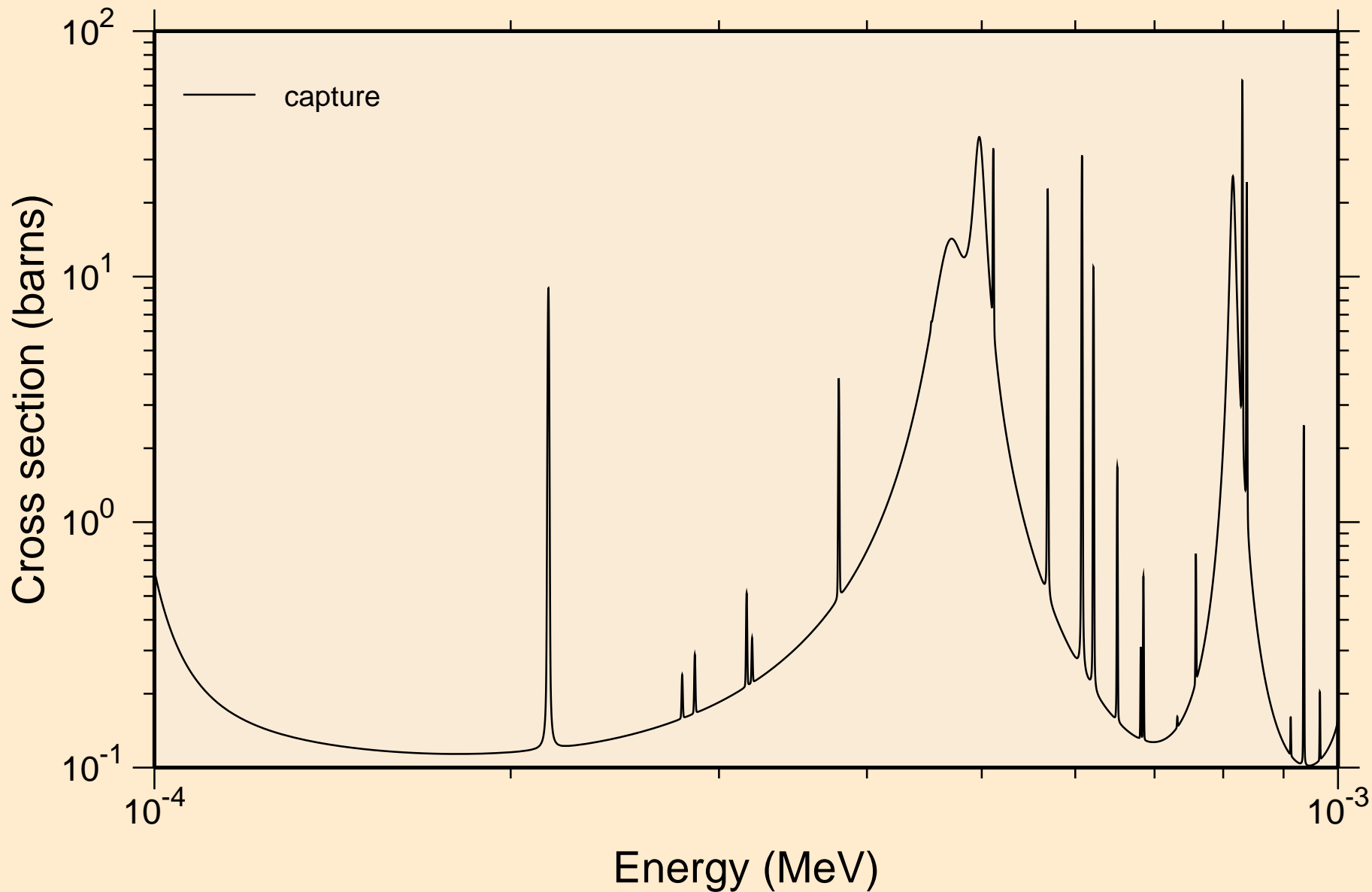
HF184 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
resonance total cross section



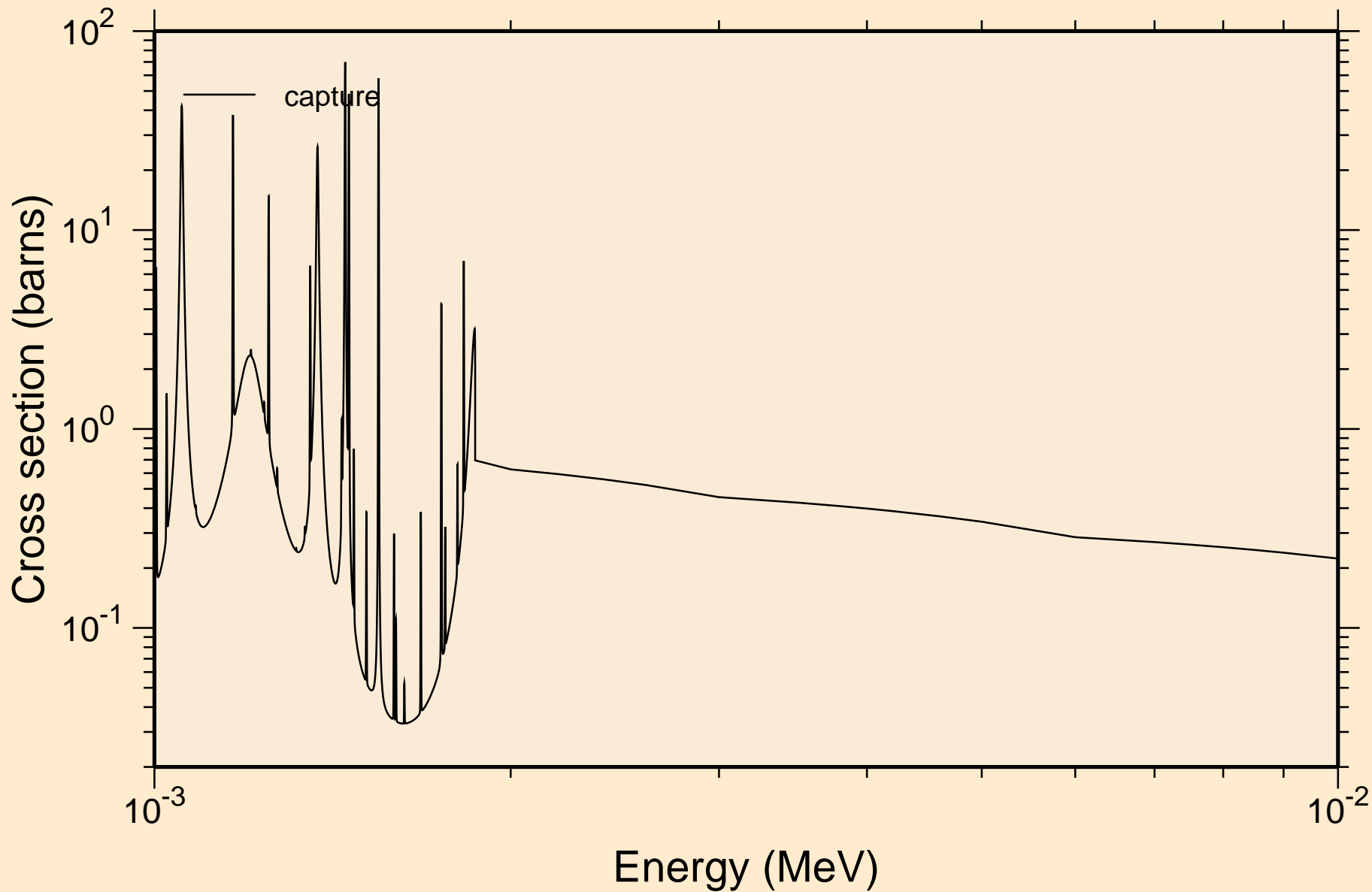
HF184 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
resonance absorption cross sections



HF184 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
resonance absorption cross sections

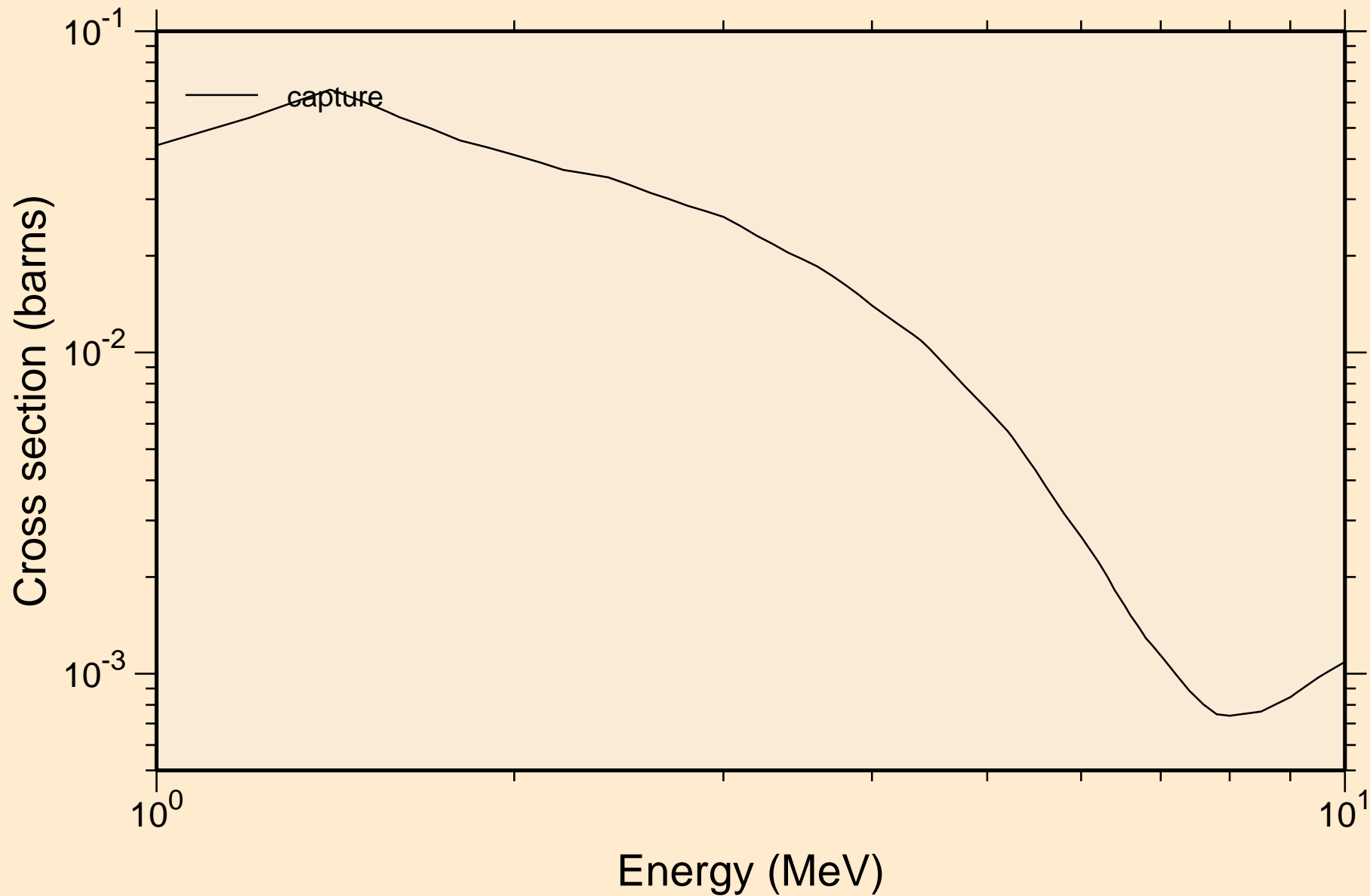


HF184 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
resonance absorption cross sections

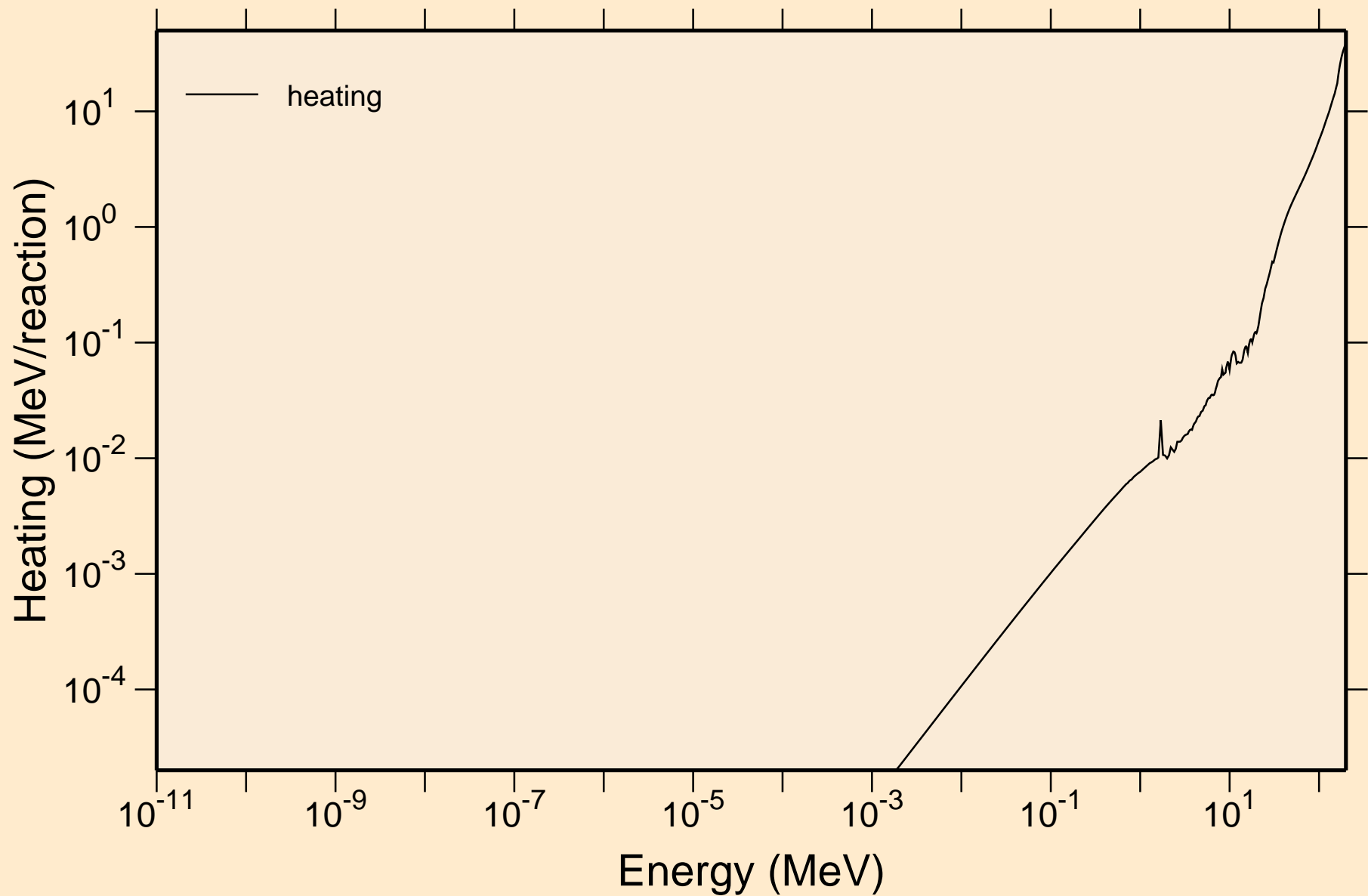




HF184 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
resonance absorption cross sections

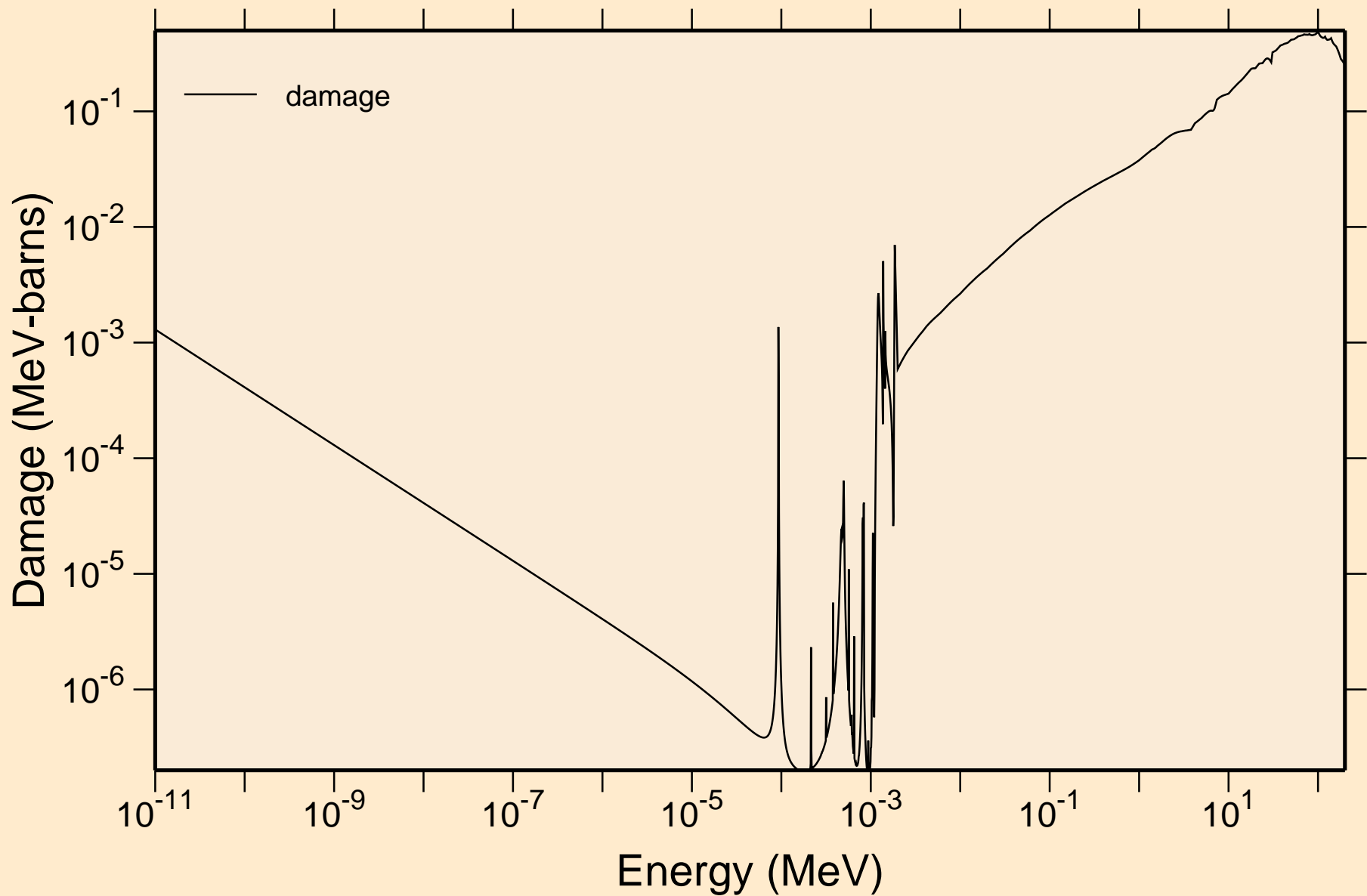


HF184 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Heating

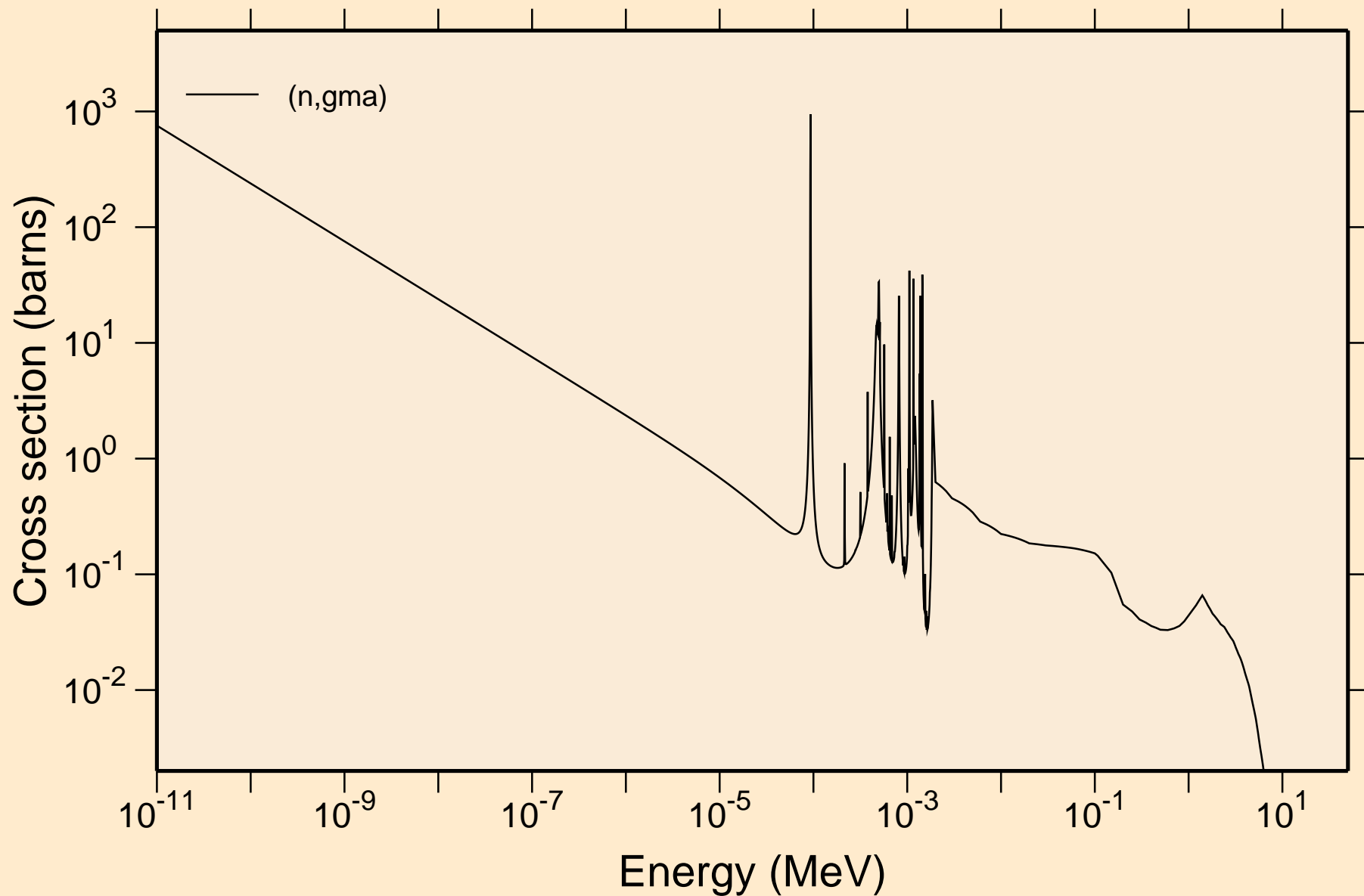


# HF184 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K

## Damage

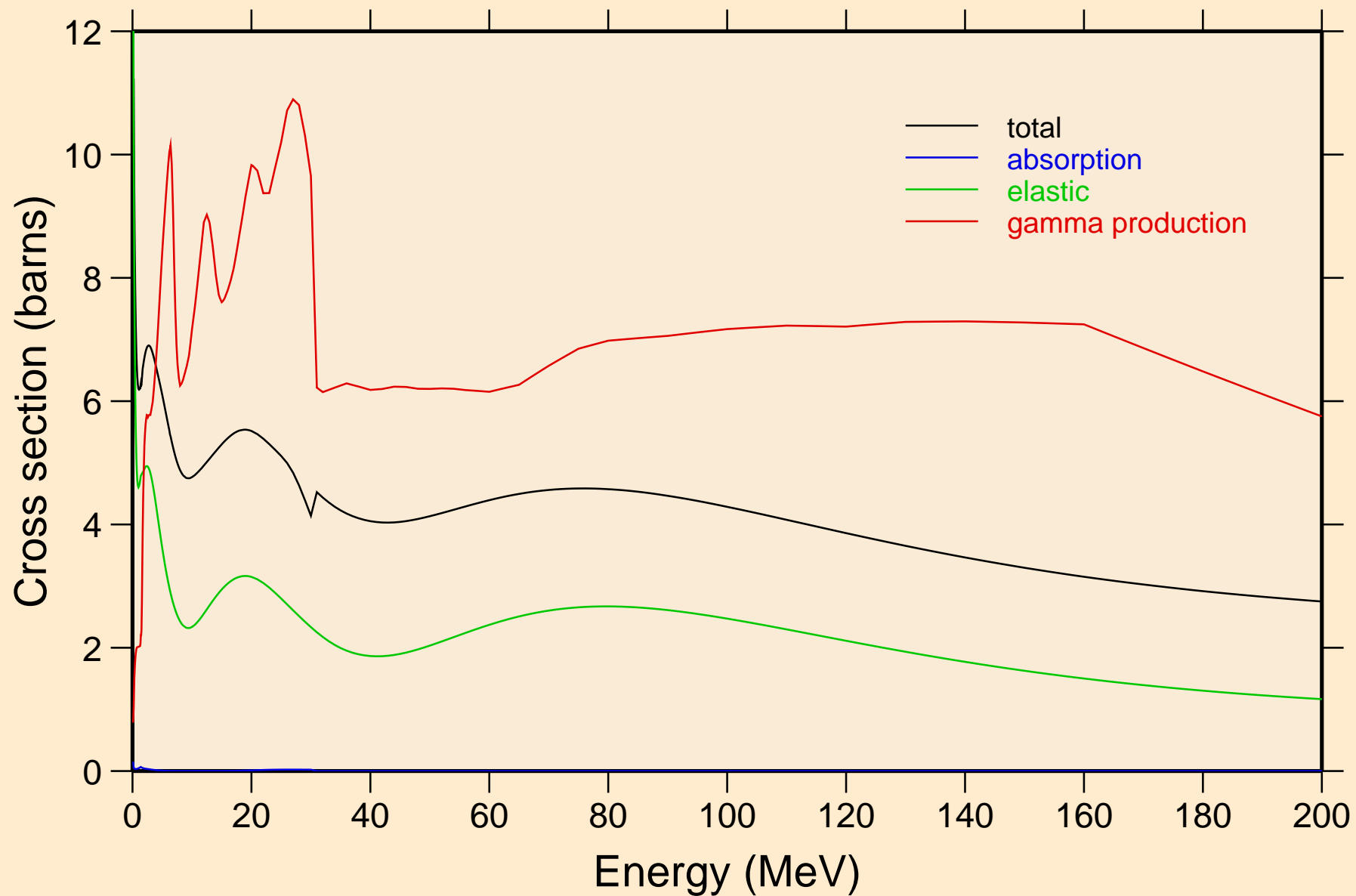


HF184 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Non-threshold reactions

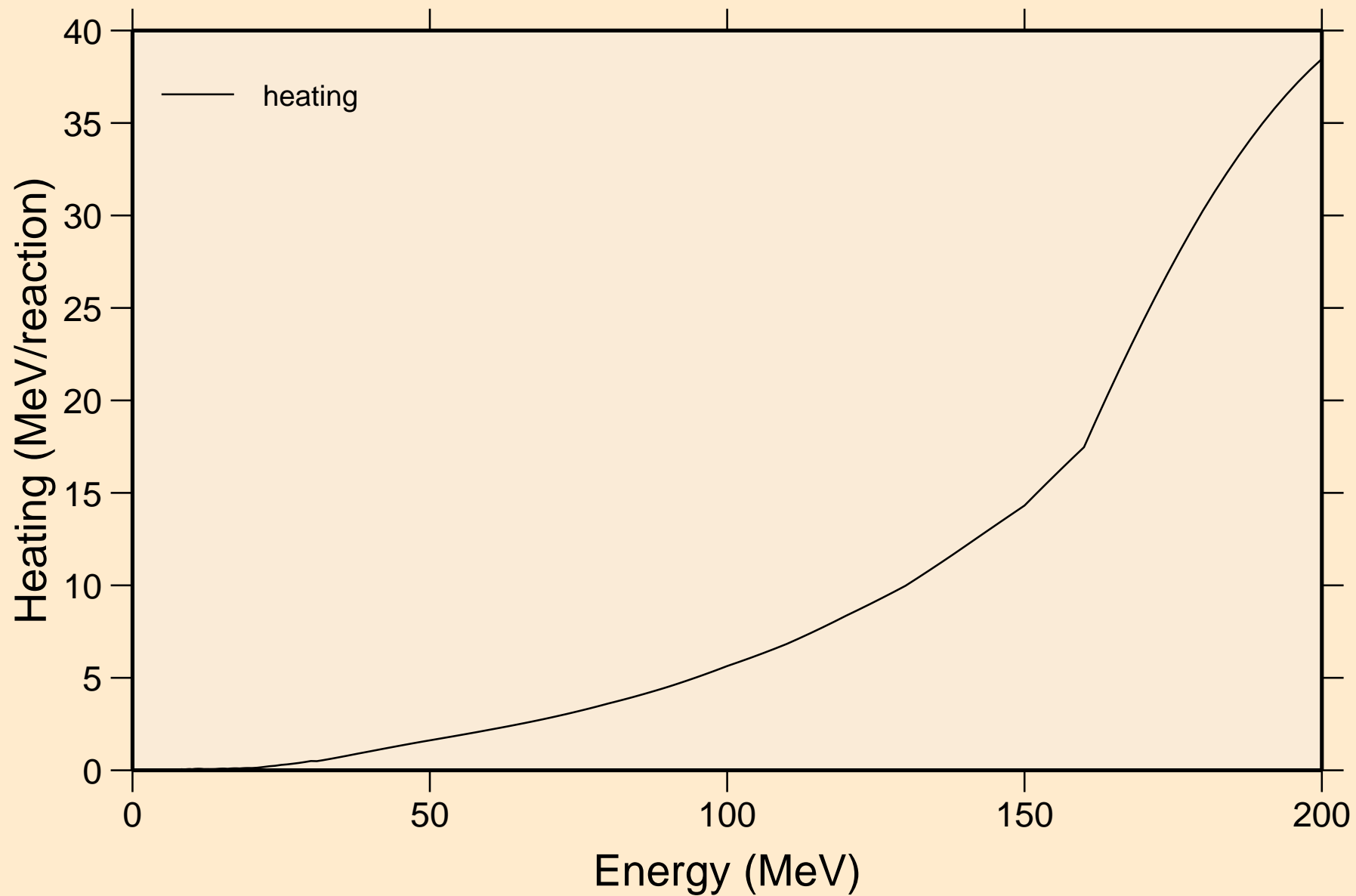


# HF184 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K

## Principal cross sections

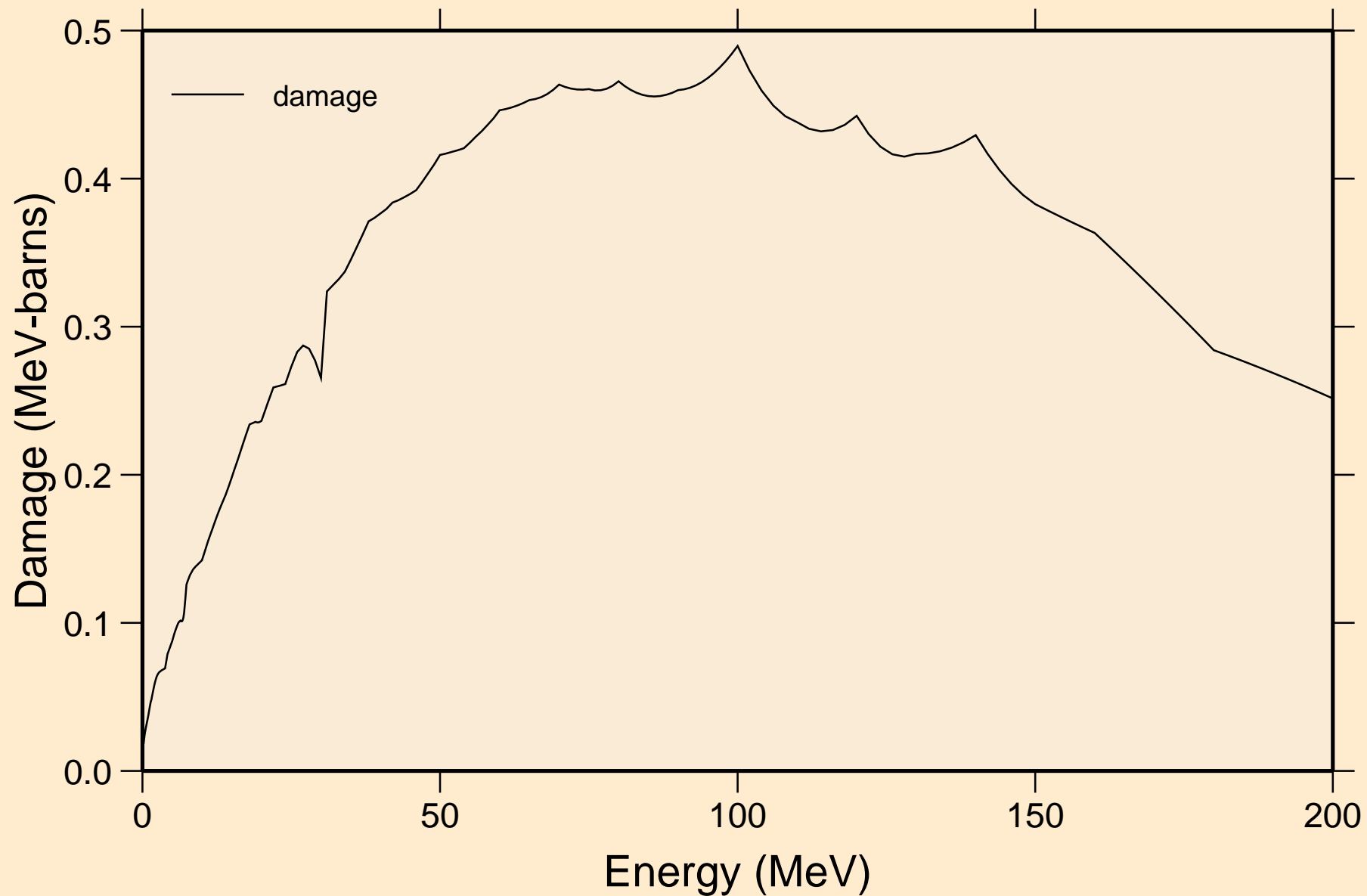


HF184 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Heating

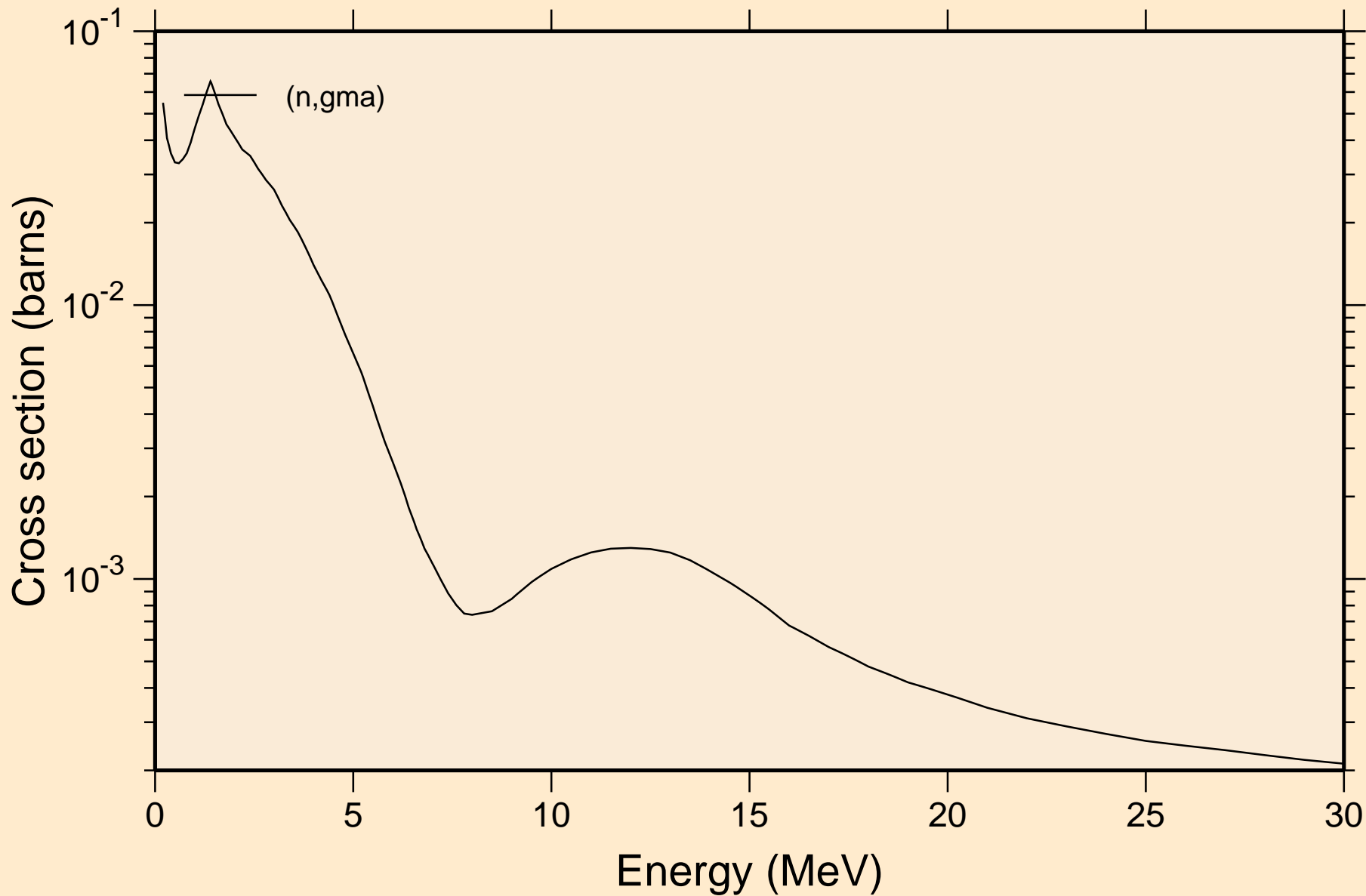


# HF184 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K

## Damage

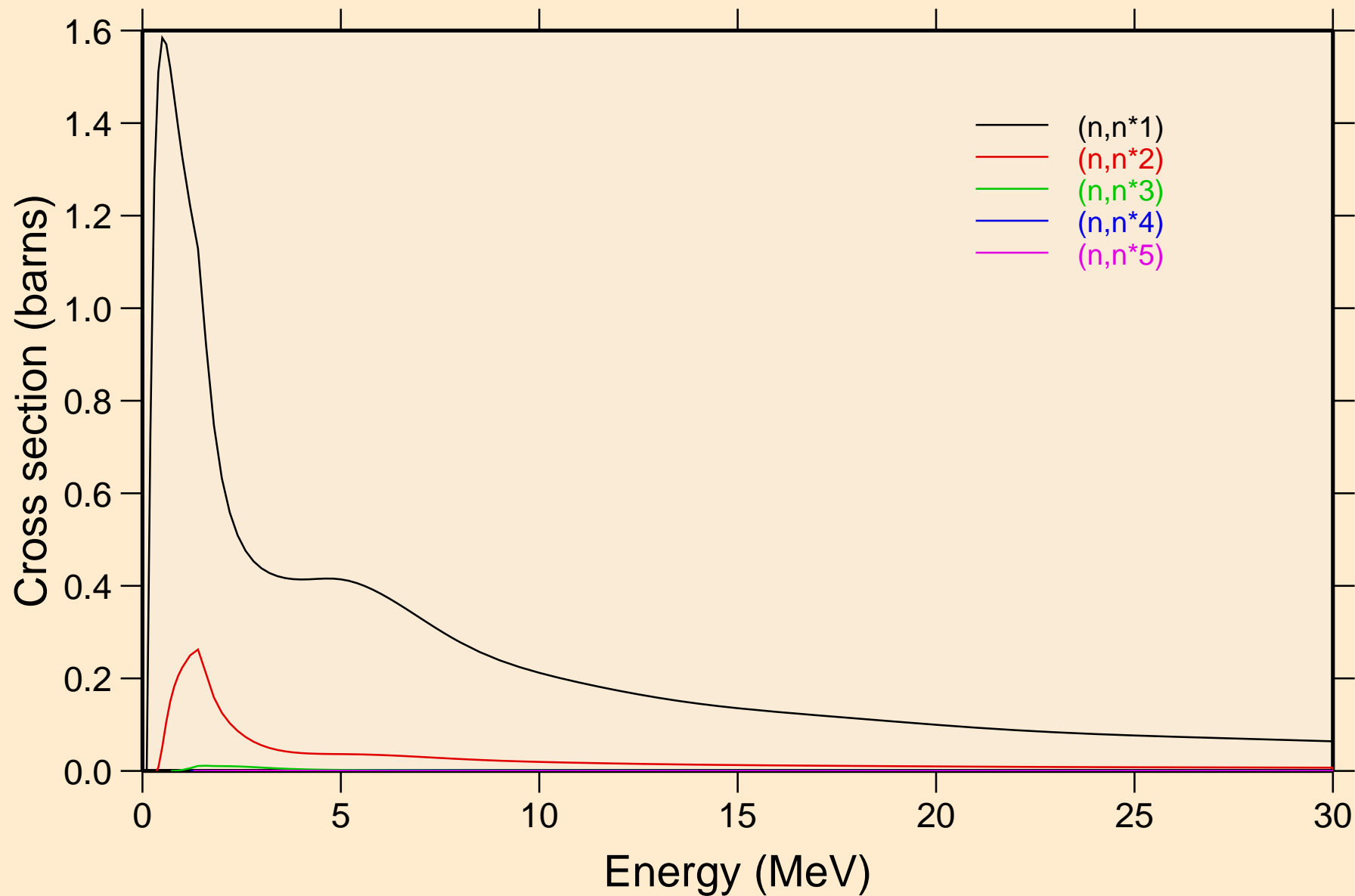


HF184 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Non-threshold reactions

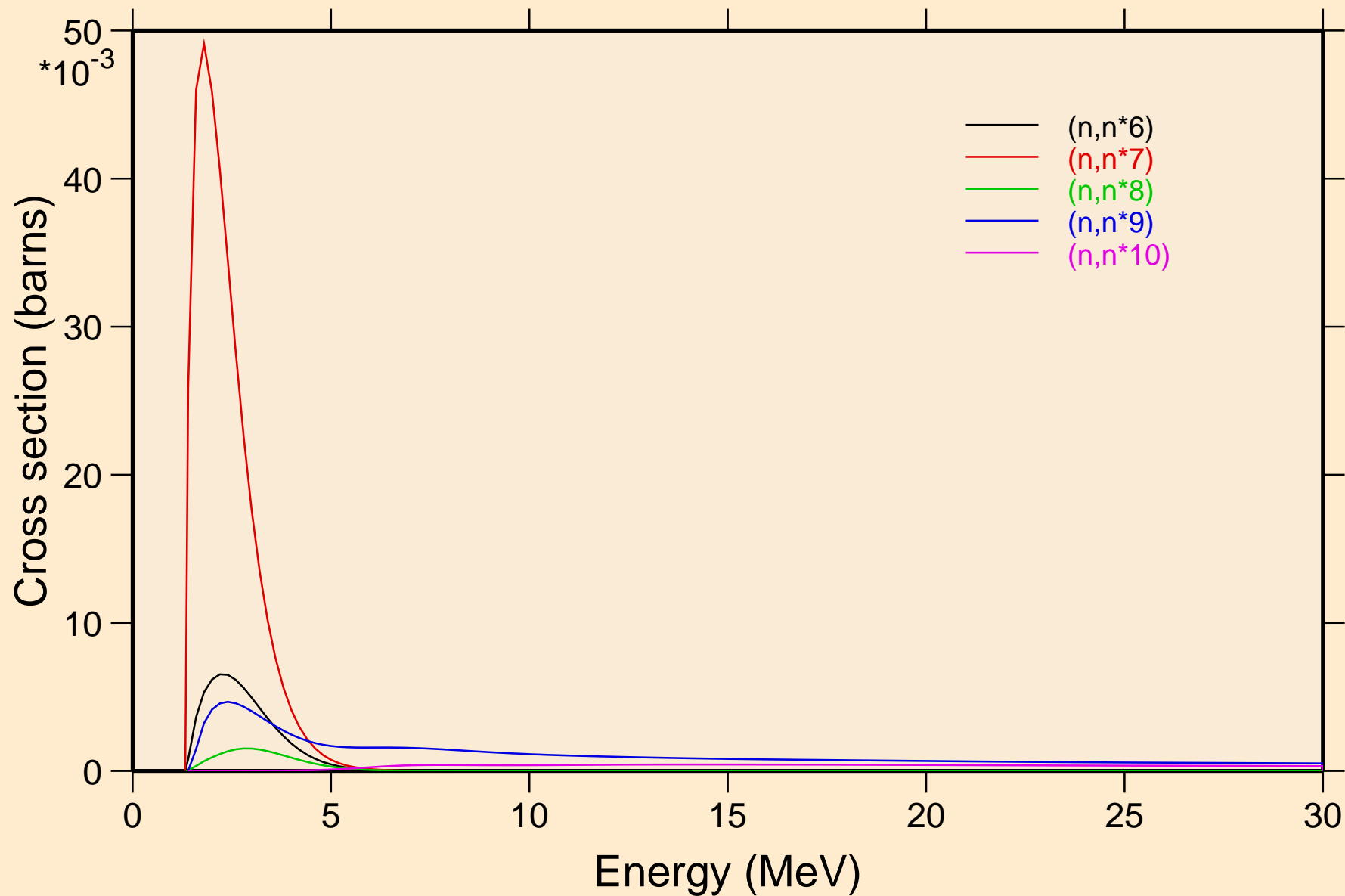




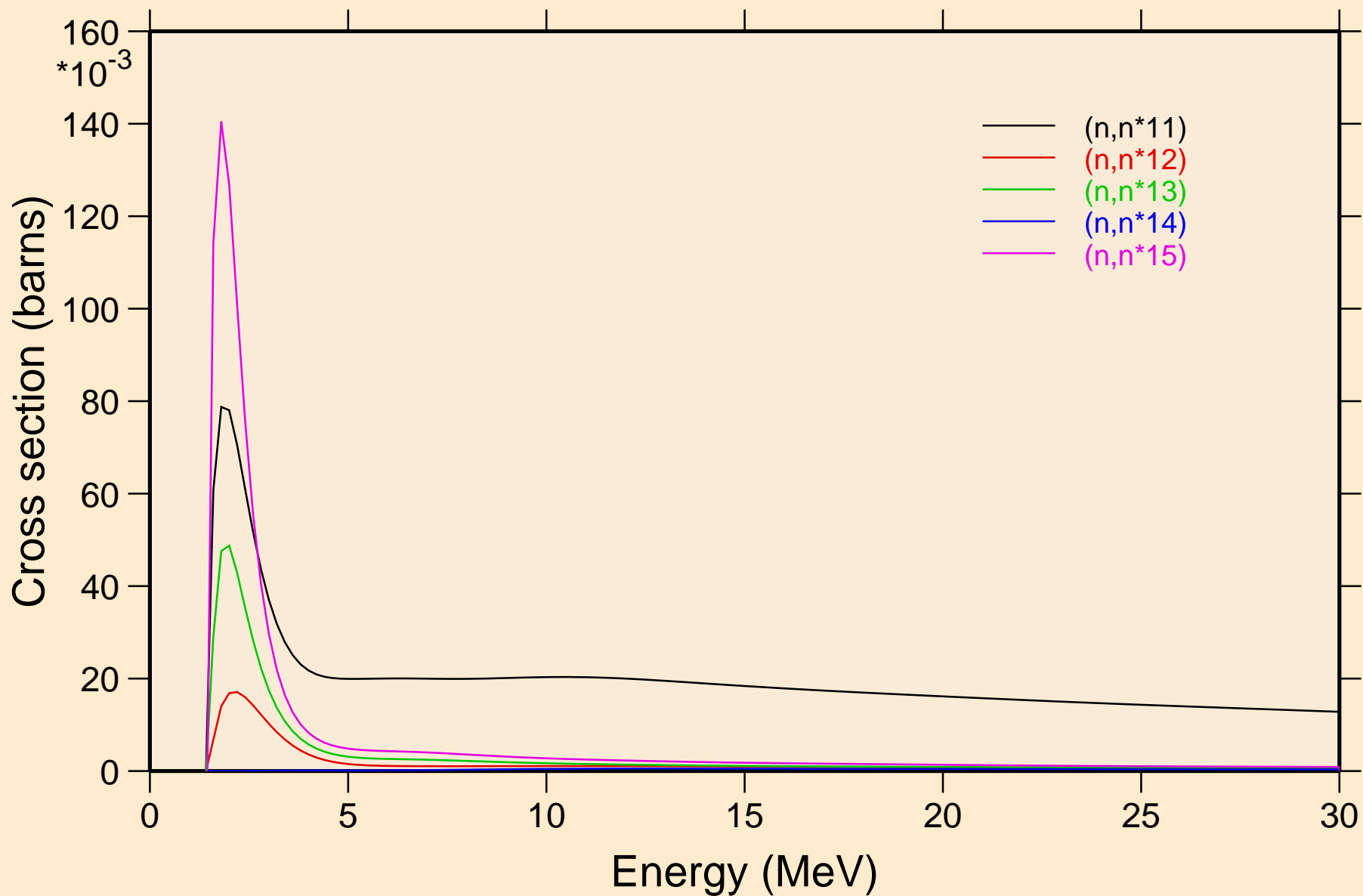
HF184 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Inelastic levels



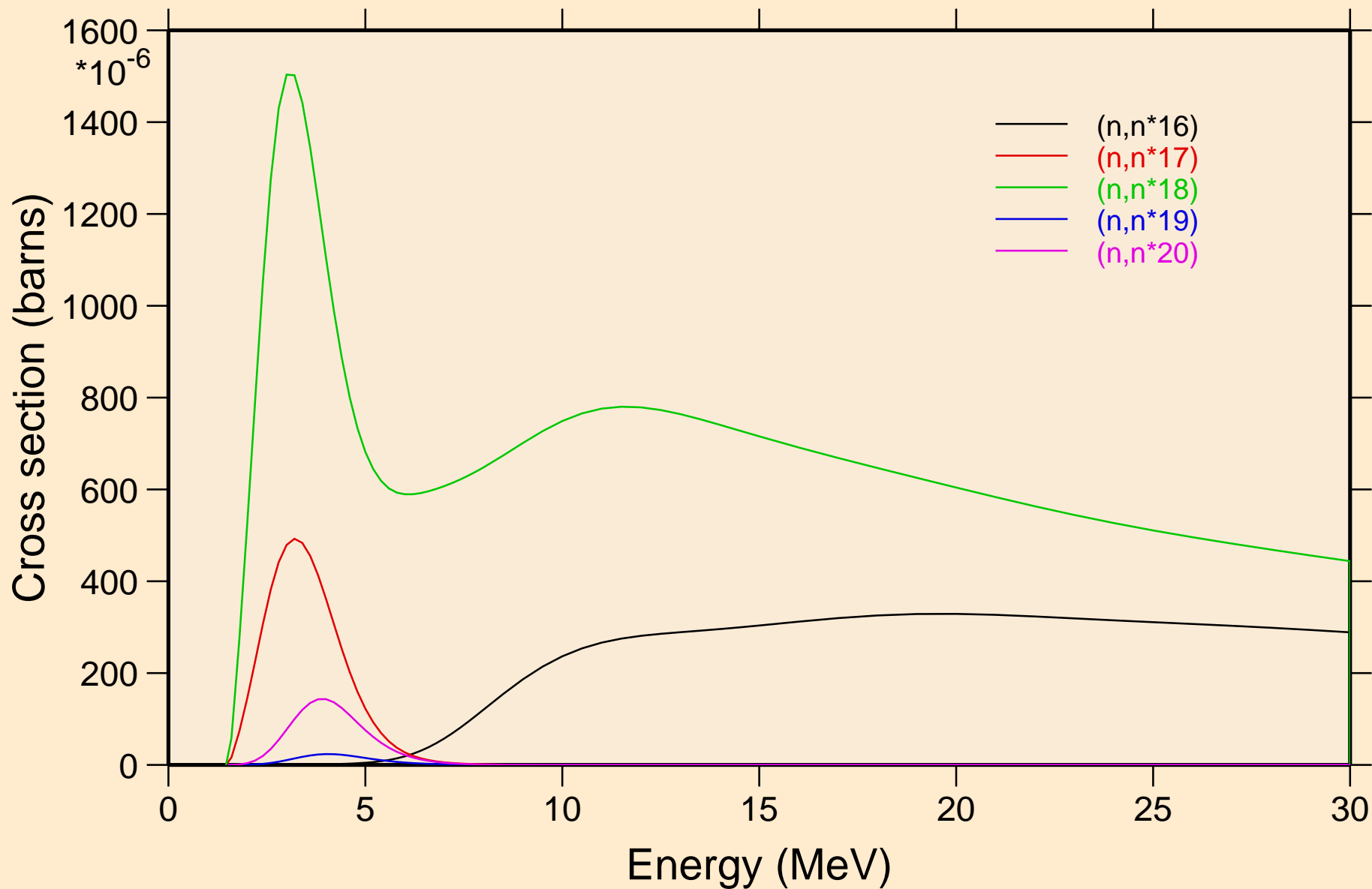
HF184 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Inelastic levels



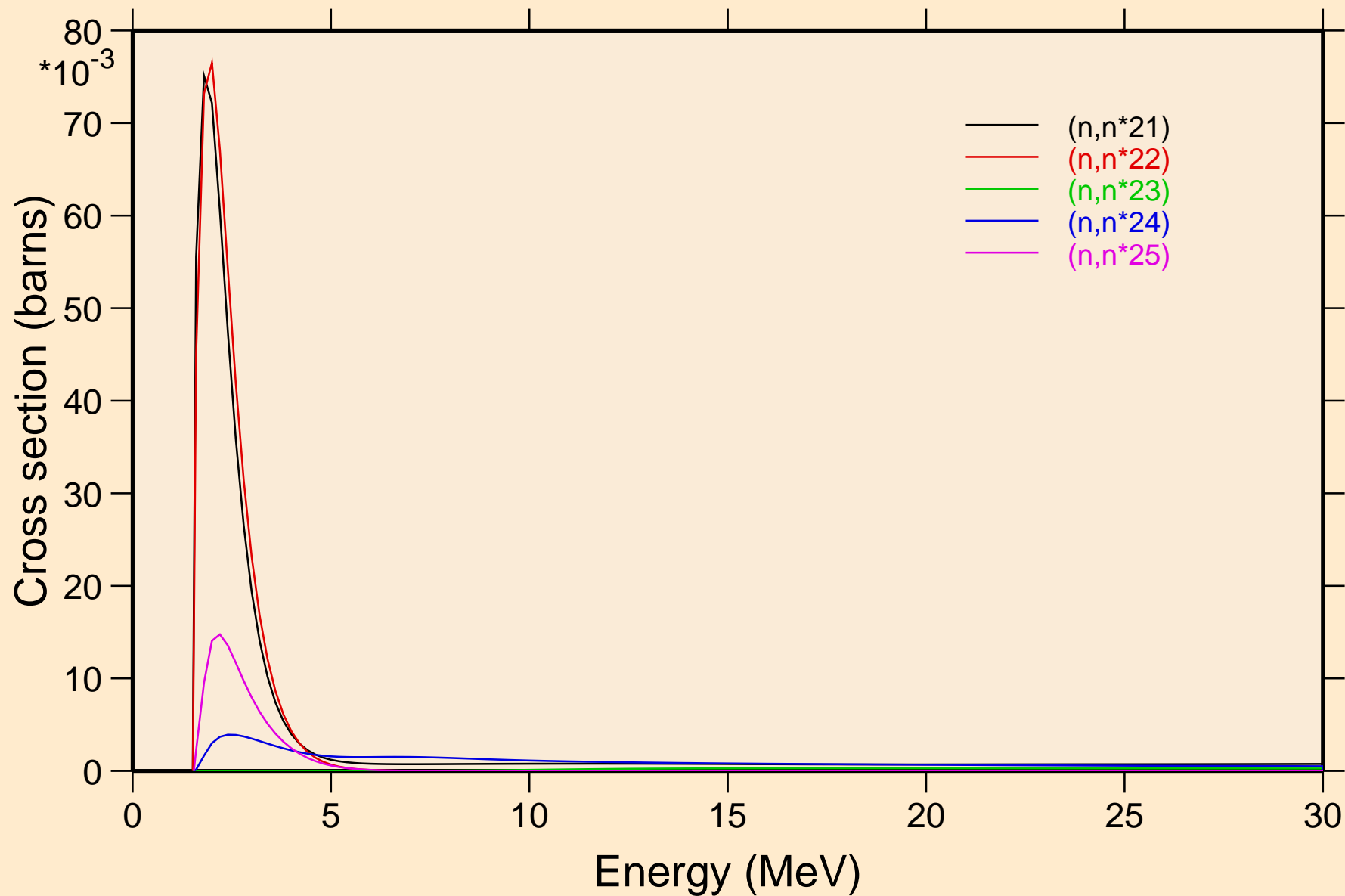
HF184 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Inelastic levels



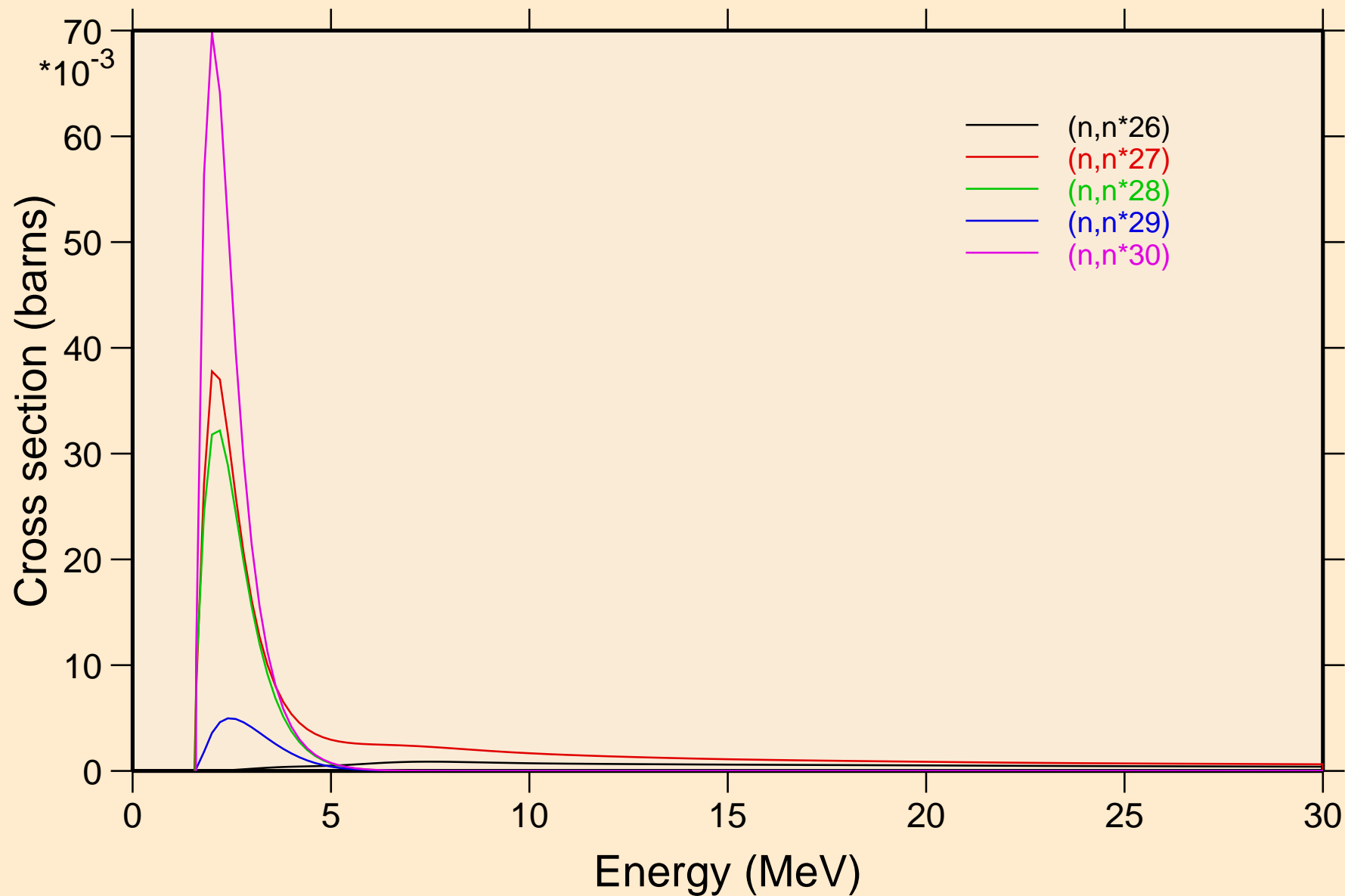
HF184 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Inelastic levels



HF184 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Inelastic levels

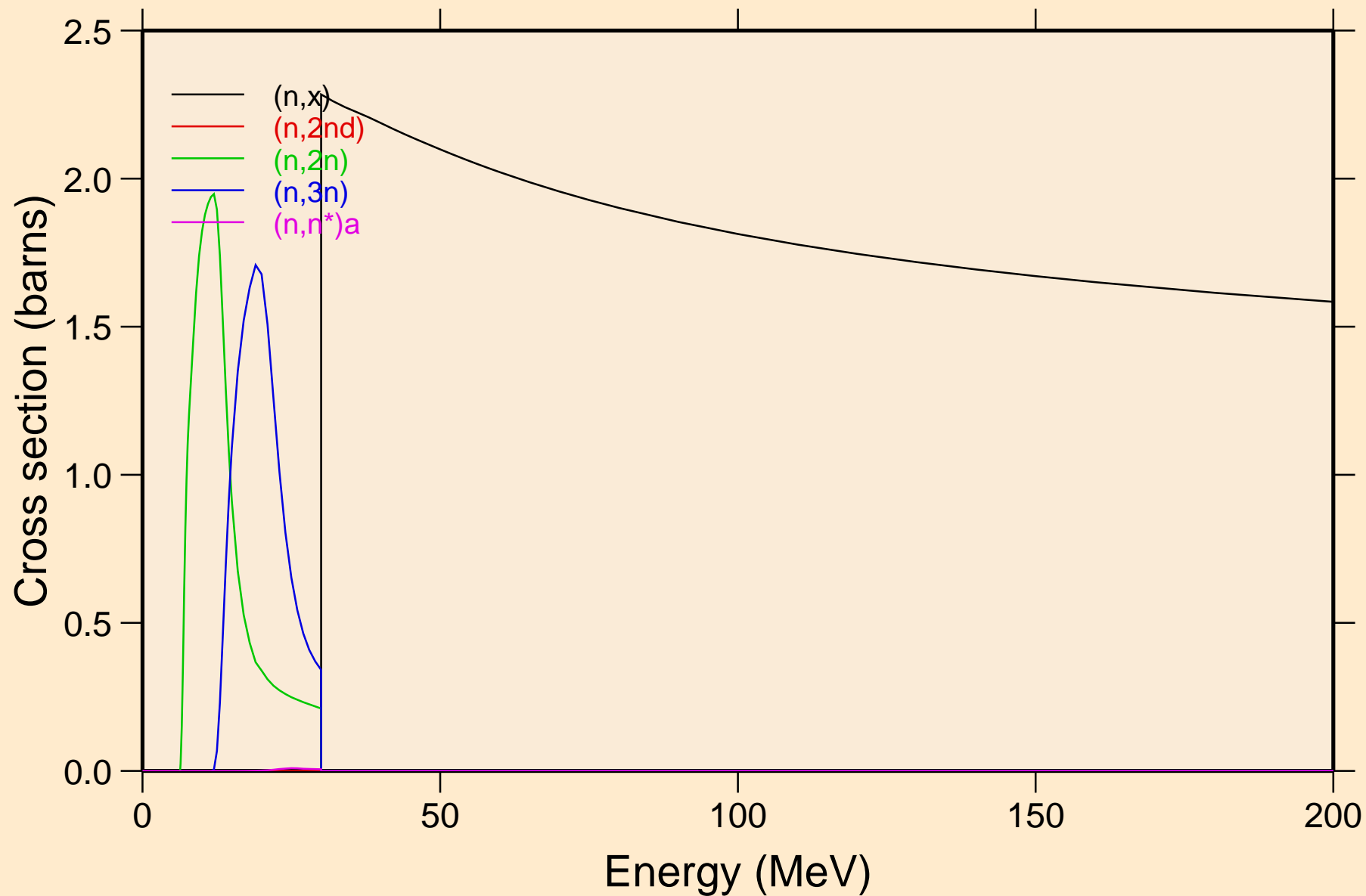


HF184 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Inelastic levels



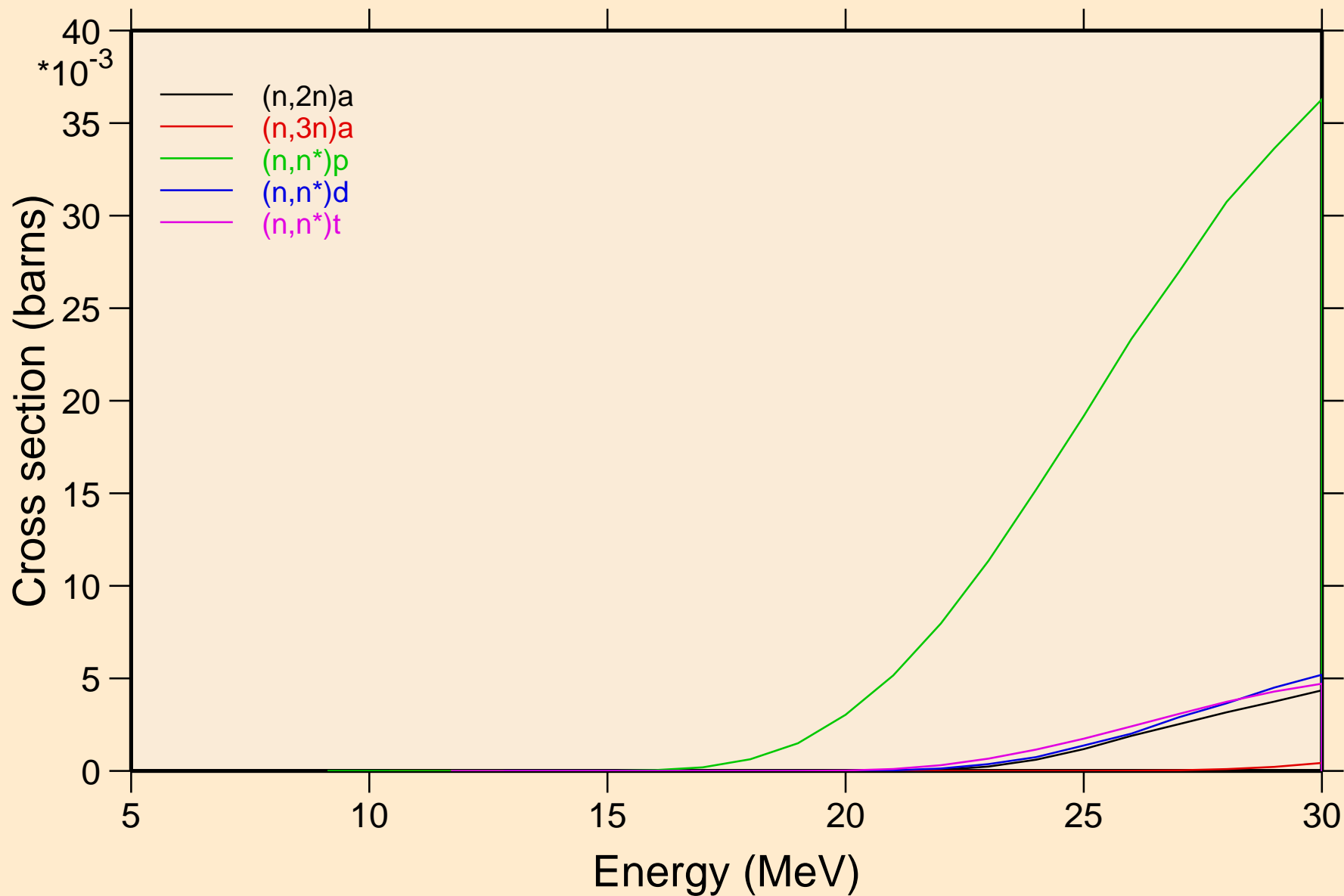
# HF184 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K

## Threshold reactions



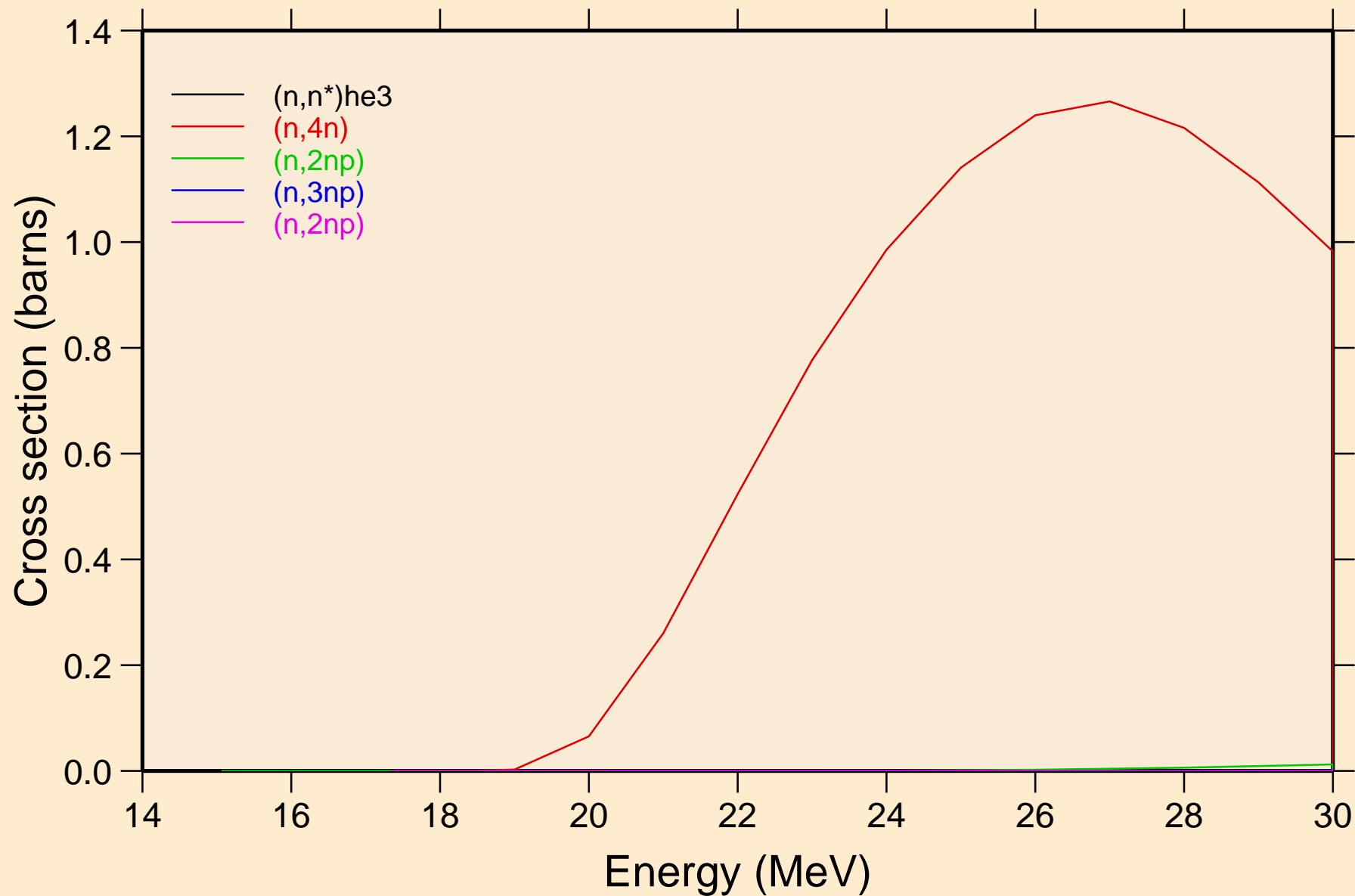
# HF184 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K

## Threshold reactions

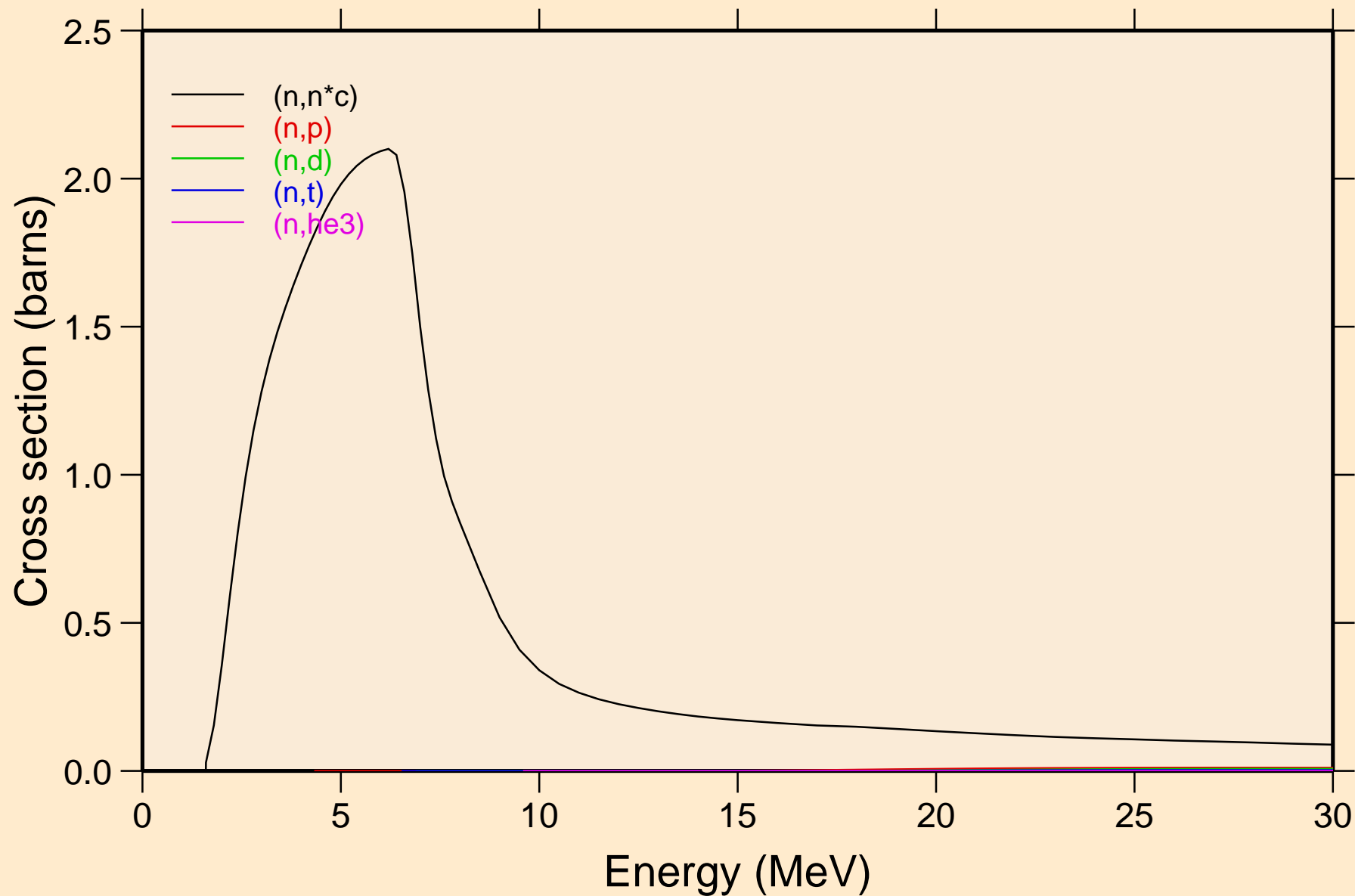




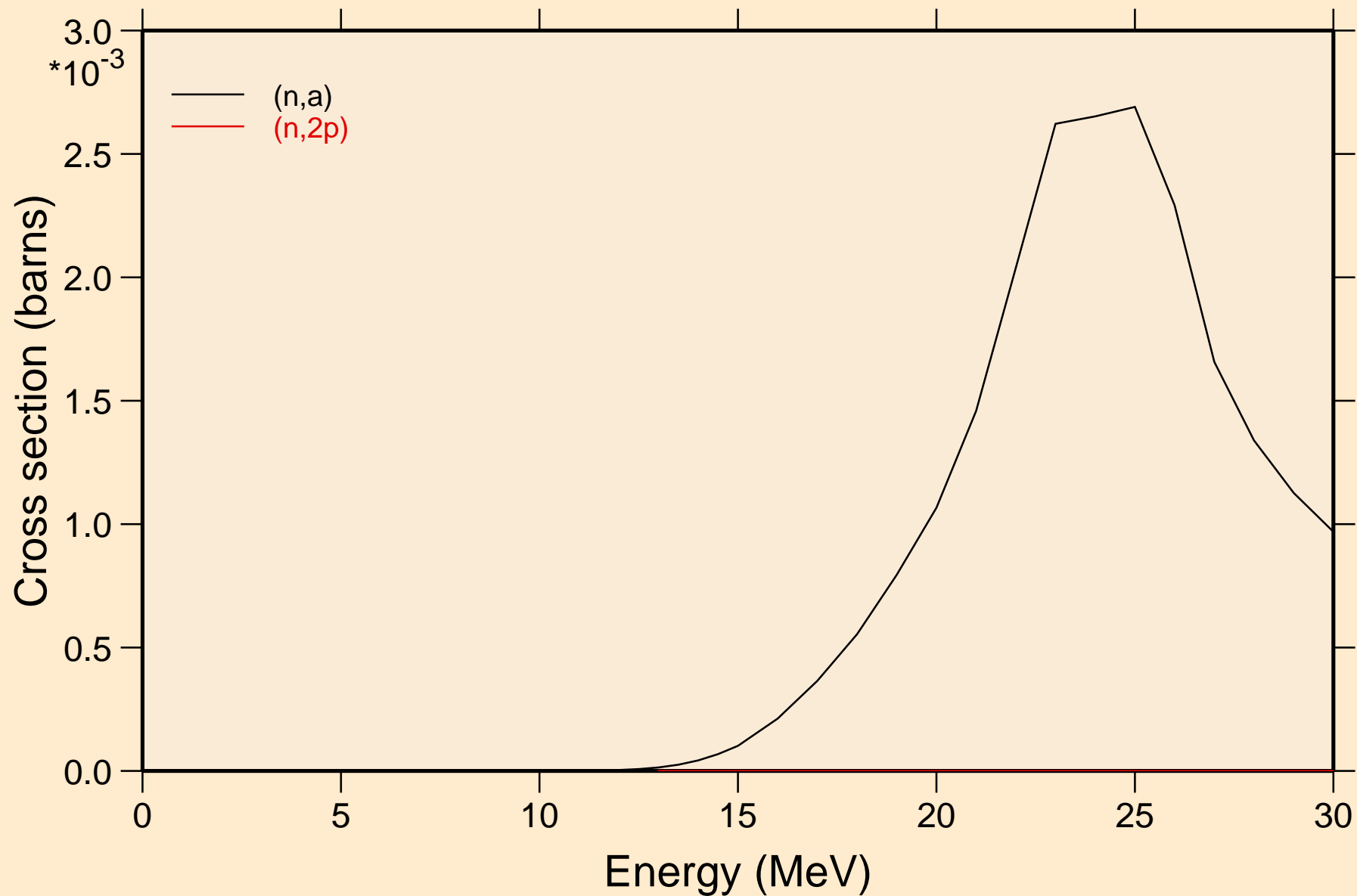
HF184 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Threshold reactions



HF184 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Threshold reactions

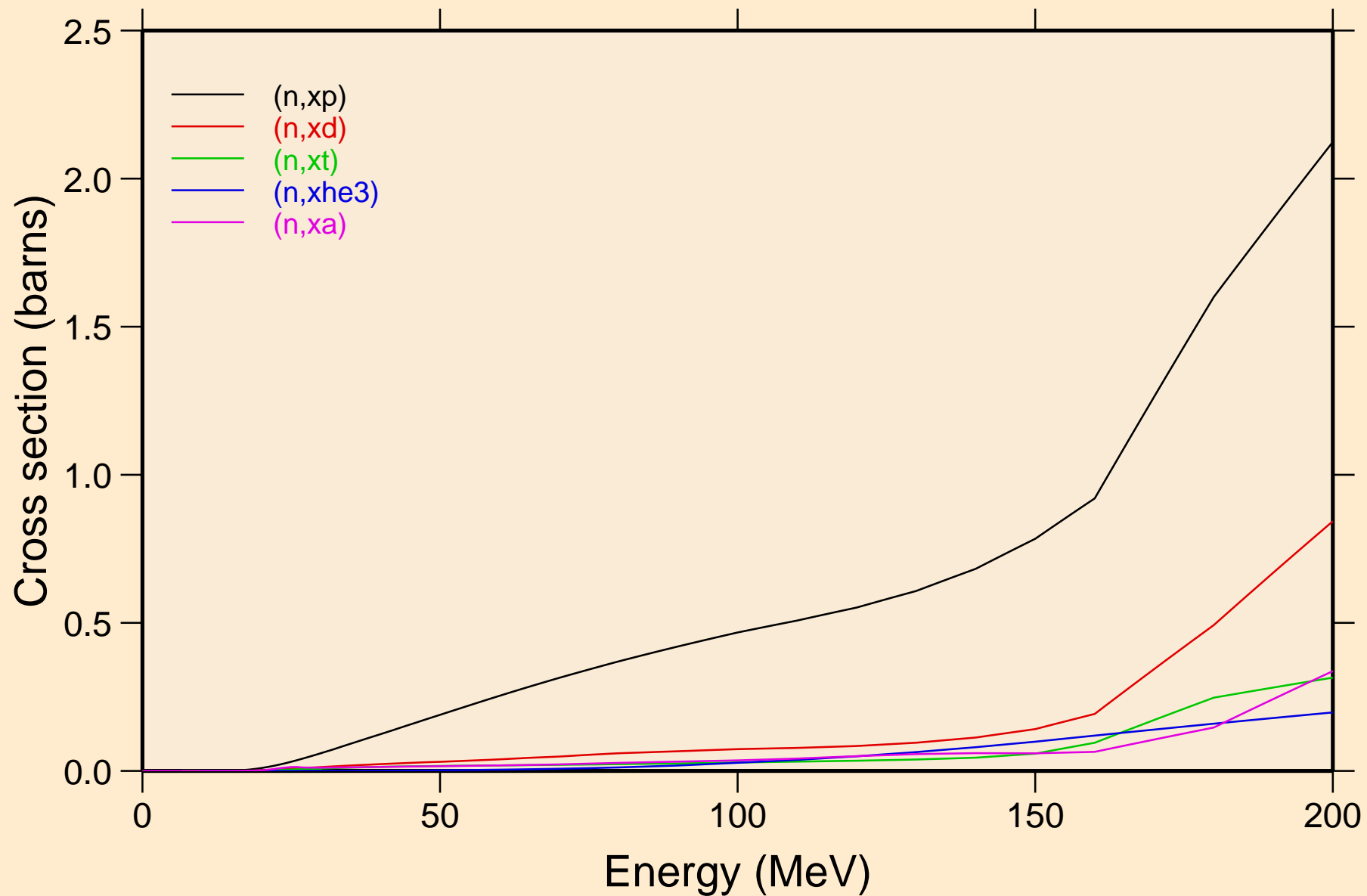


HF184 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Threshold reactions

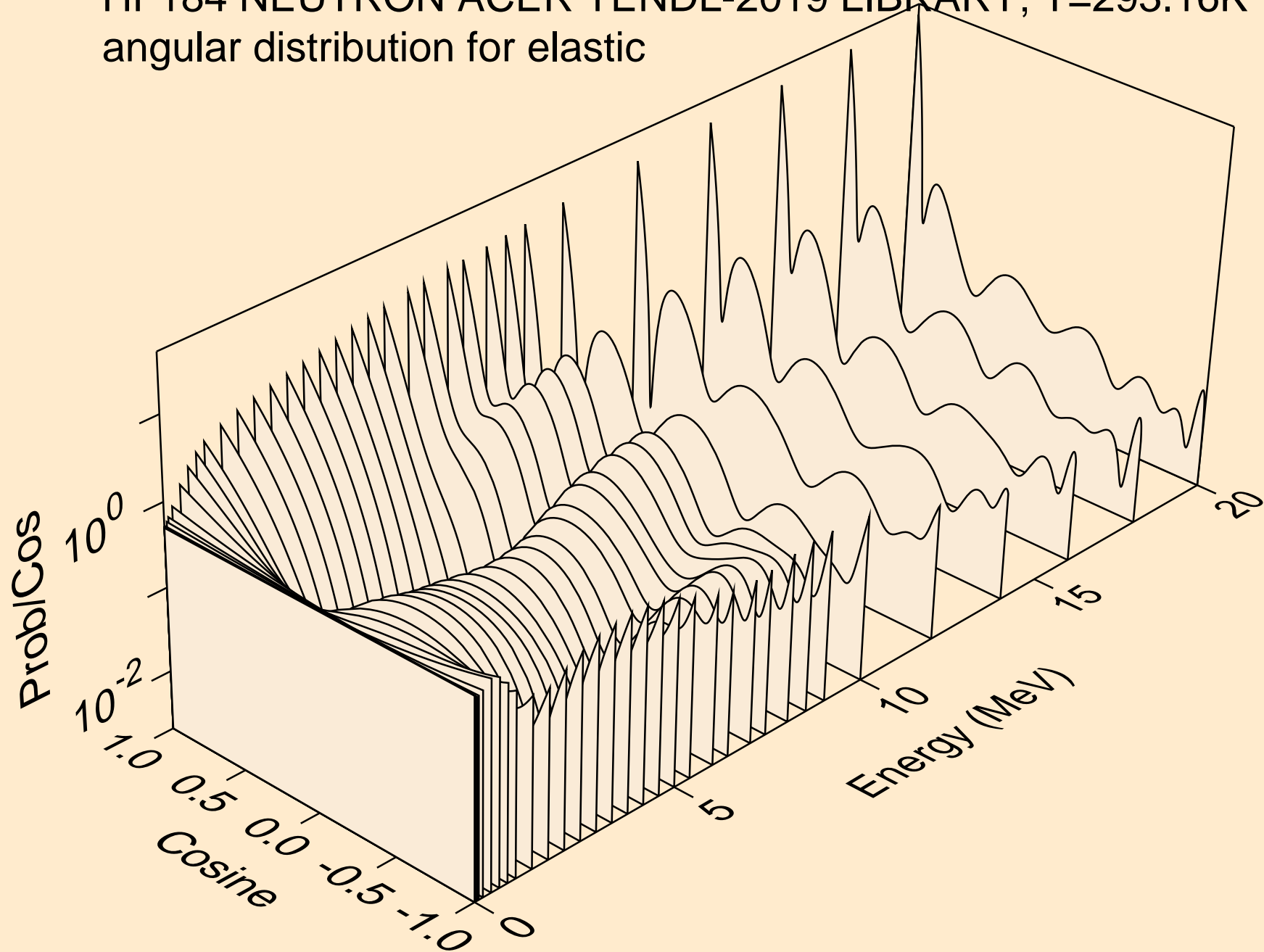


# HF184 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K

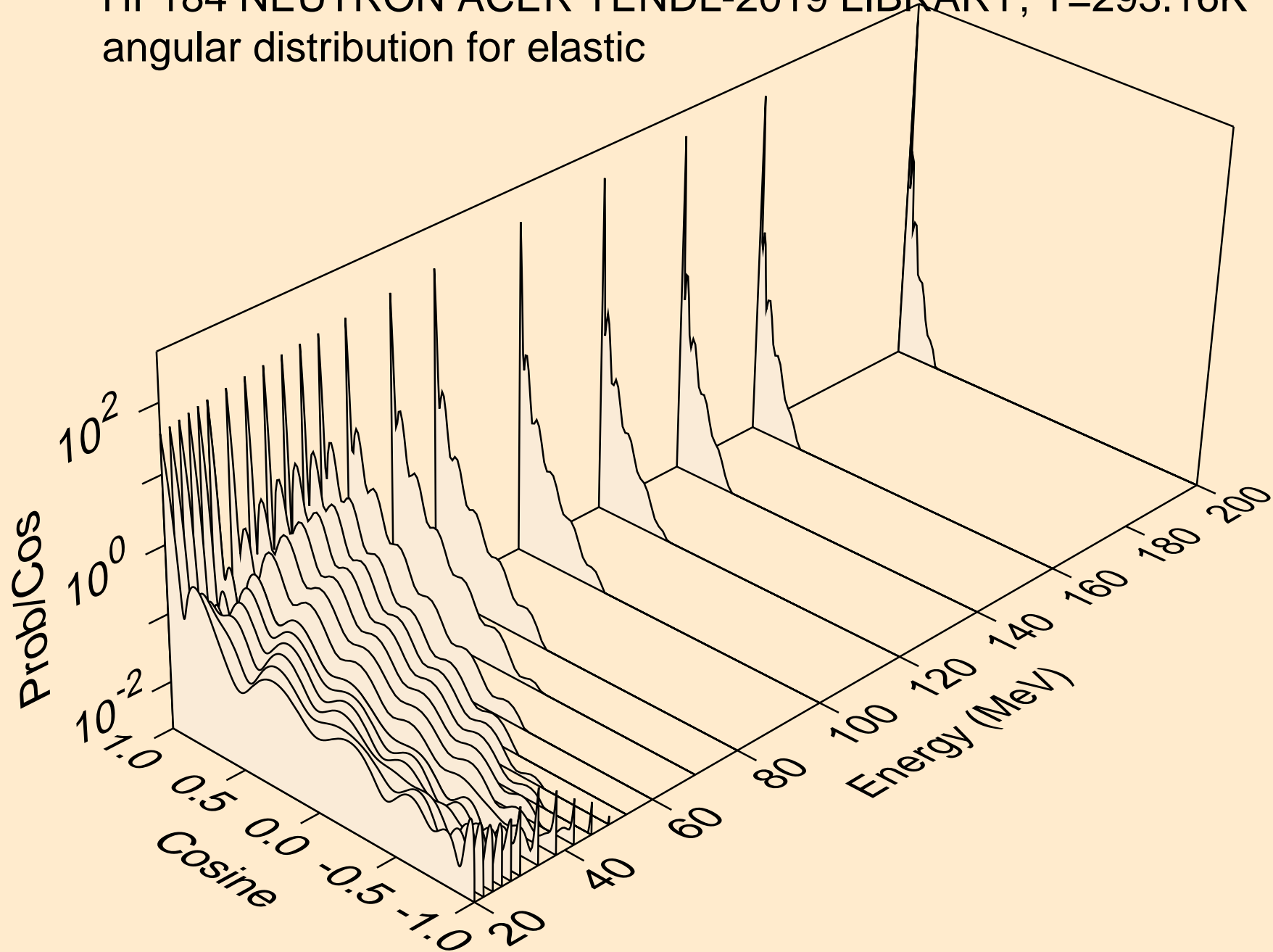
## Threshold reactions



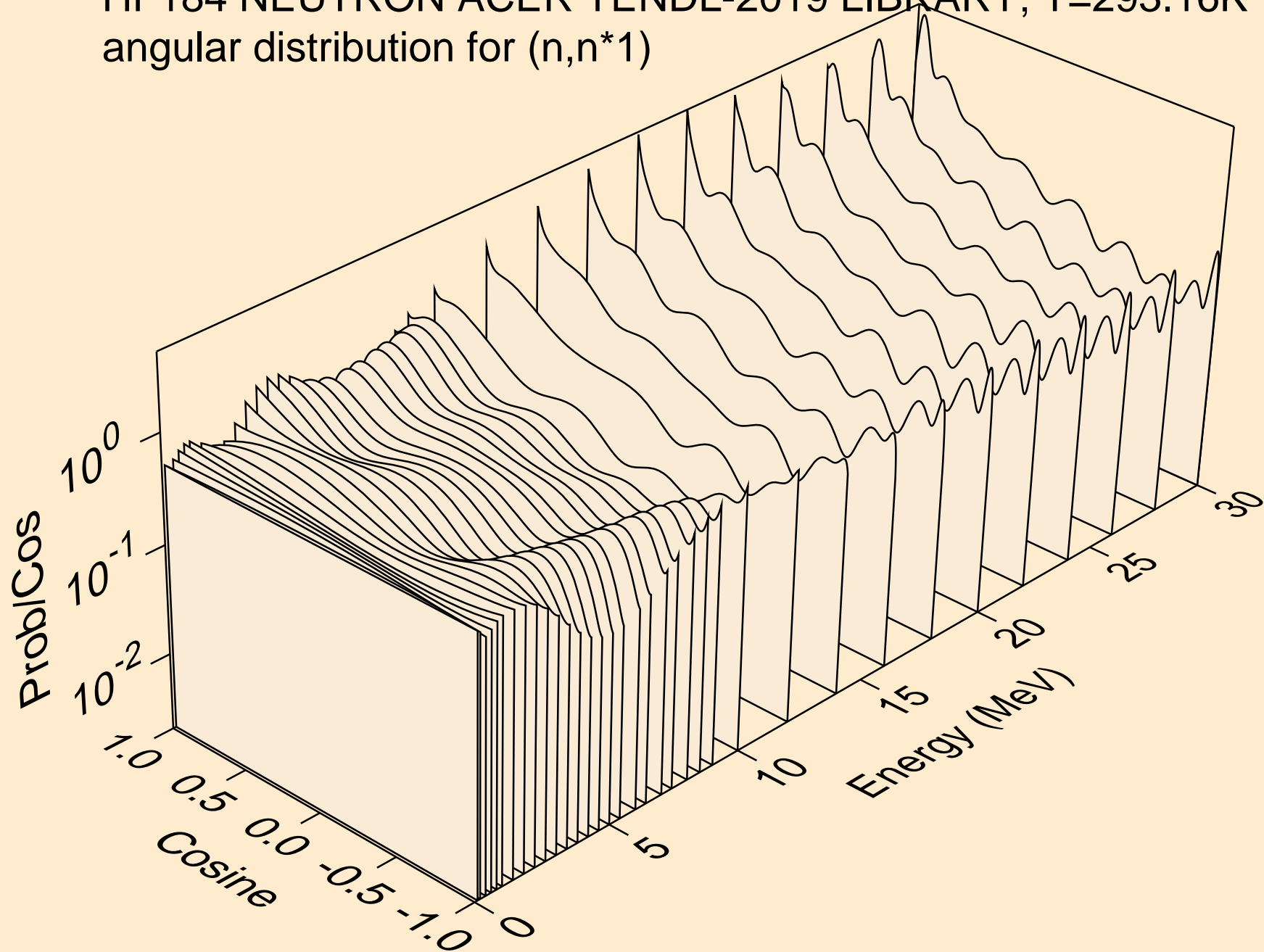
HF184 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for elastic



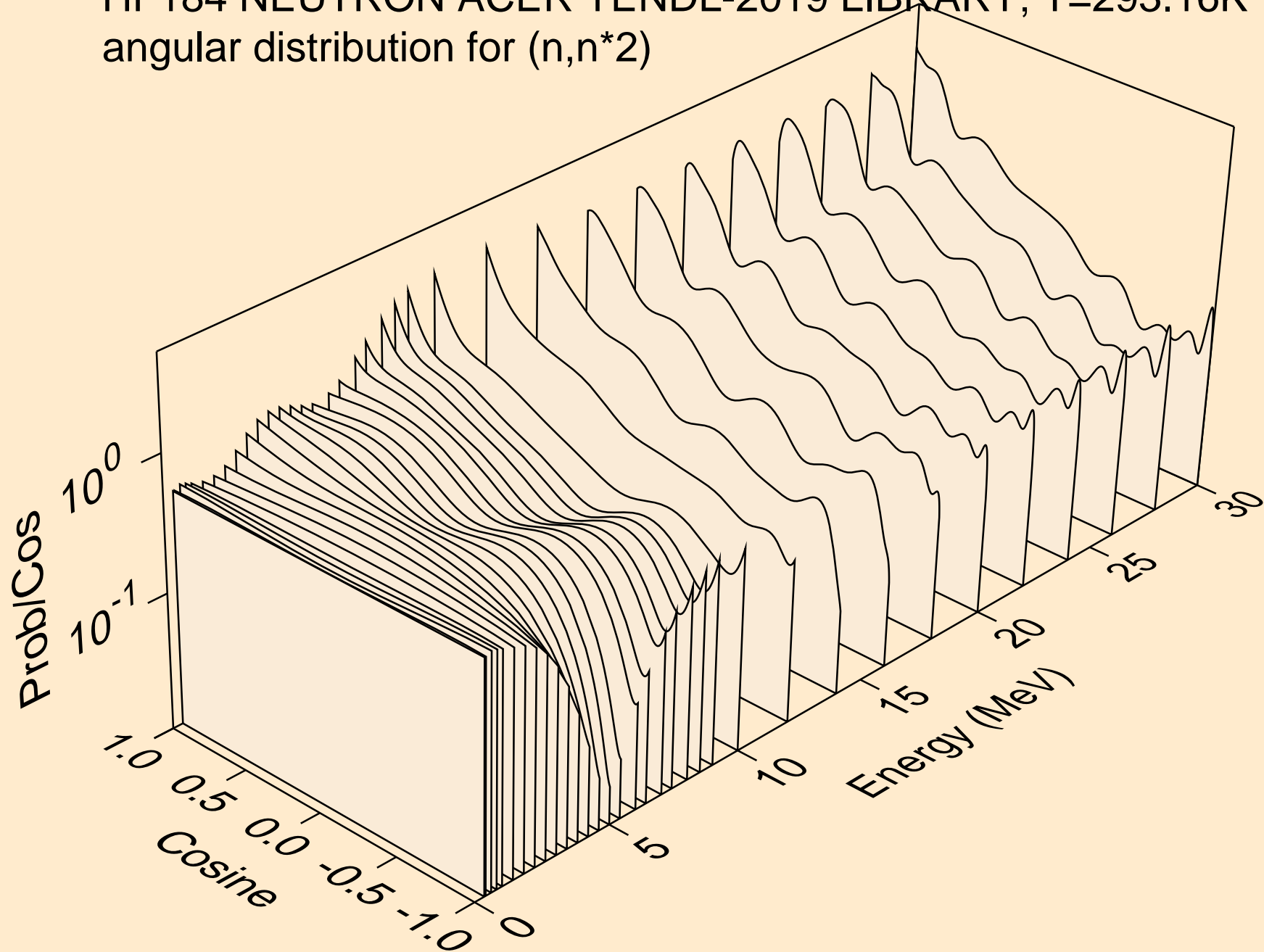
HF184 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for elastic



HF184 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*1)

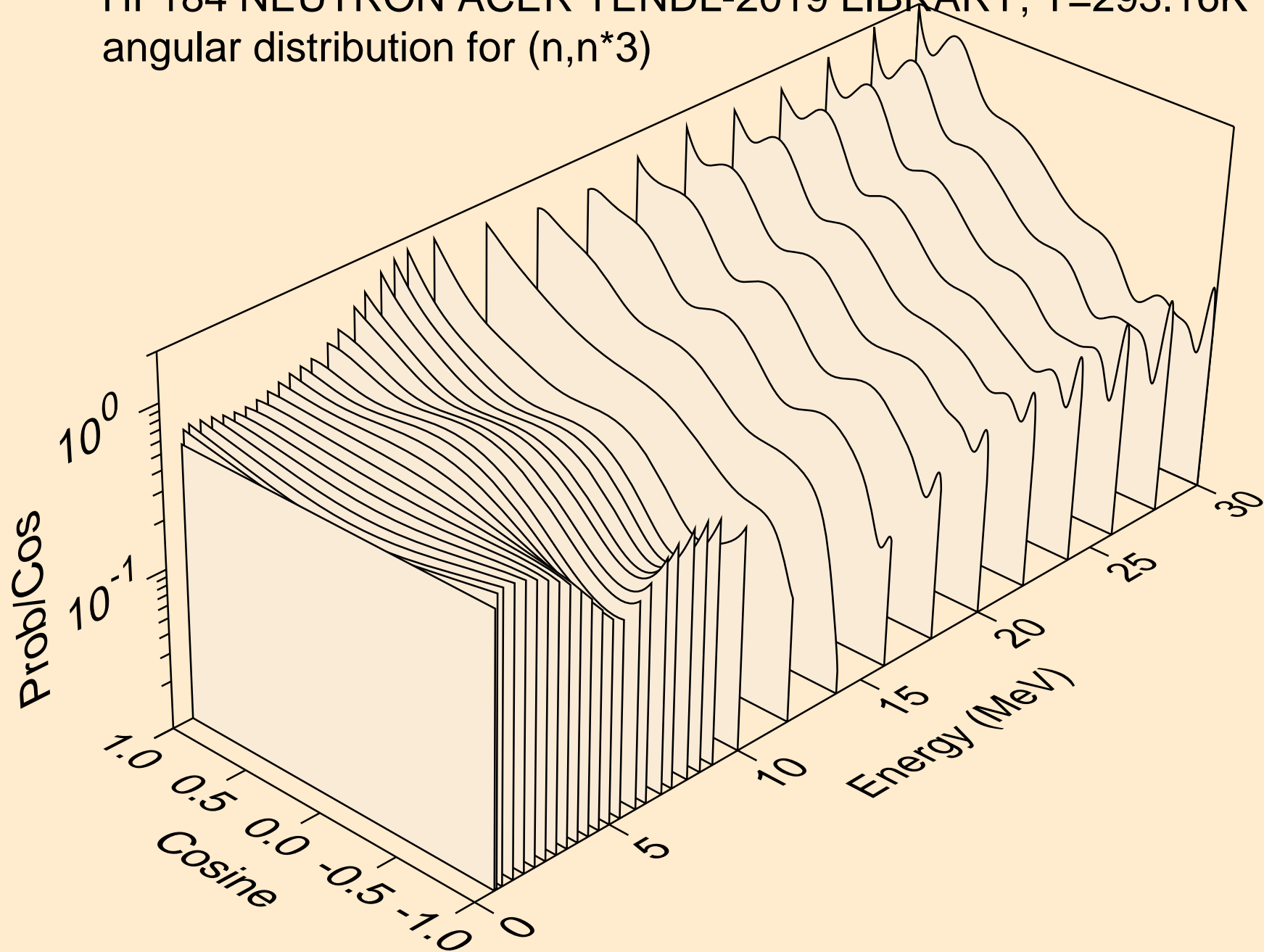


HF184 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*2)

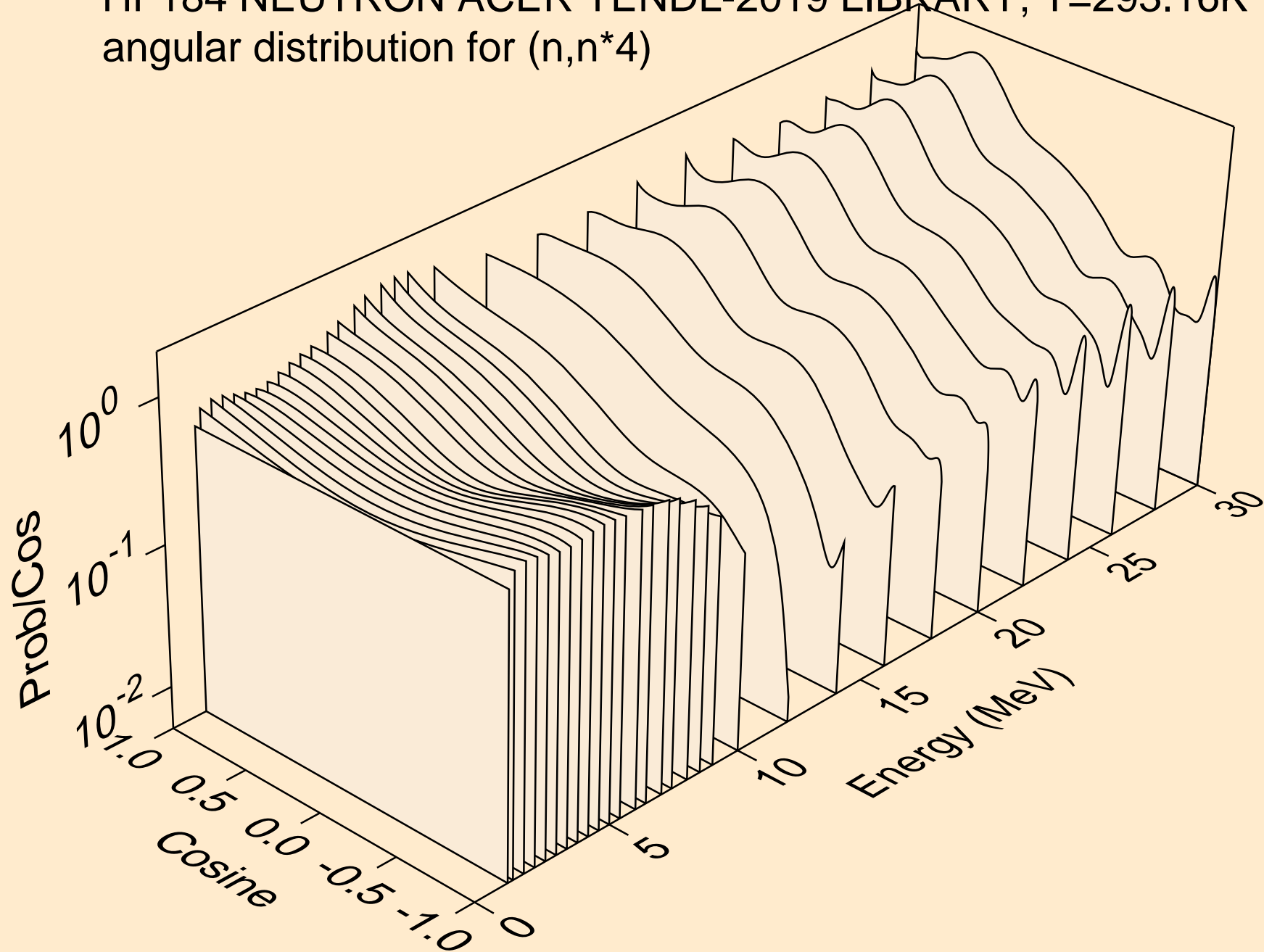




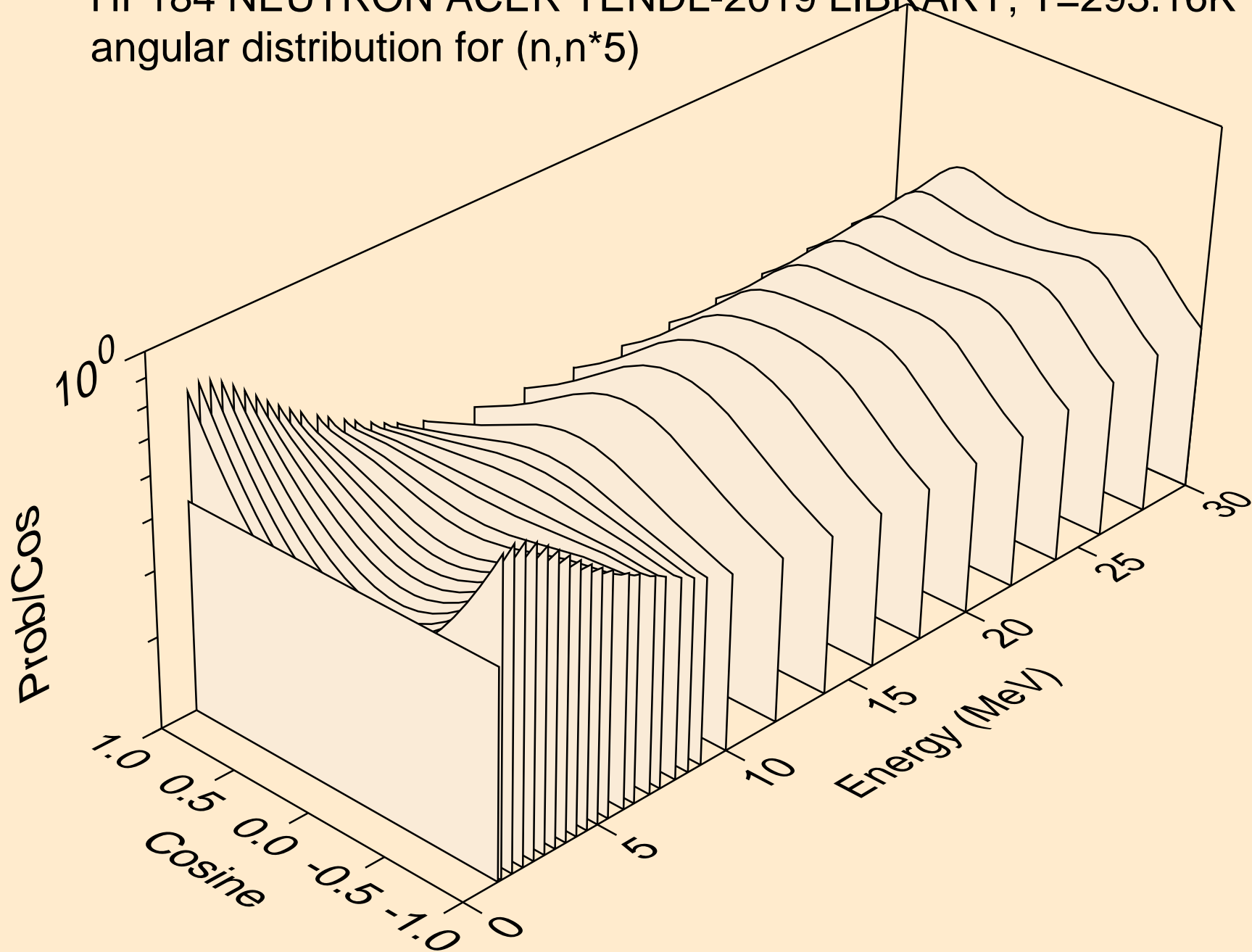
HF184 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*3)



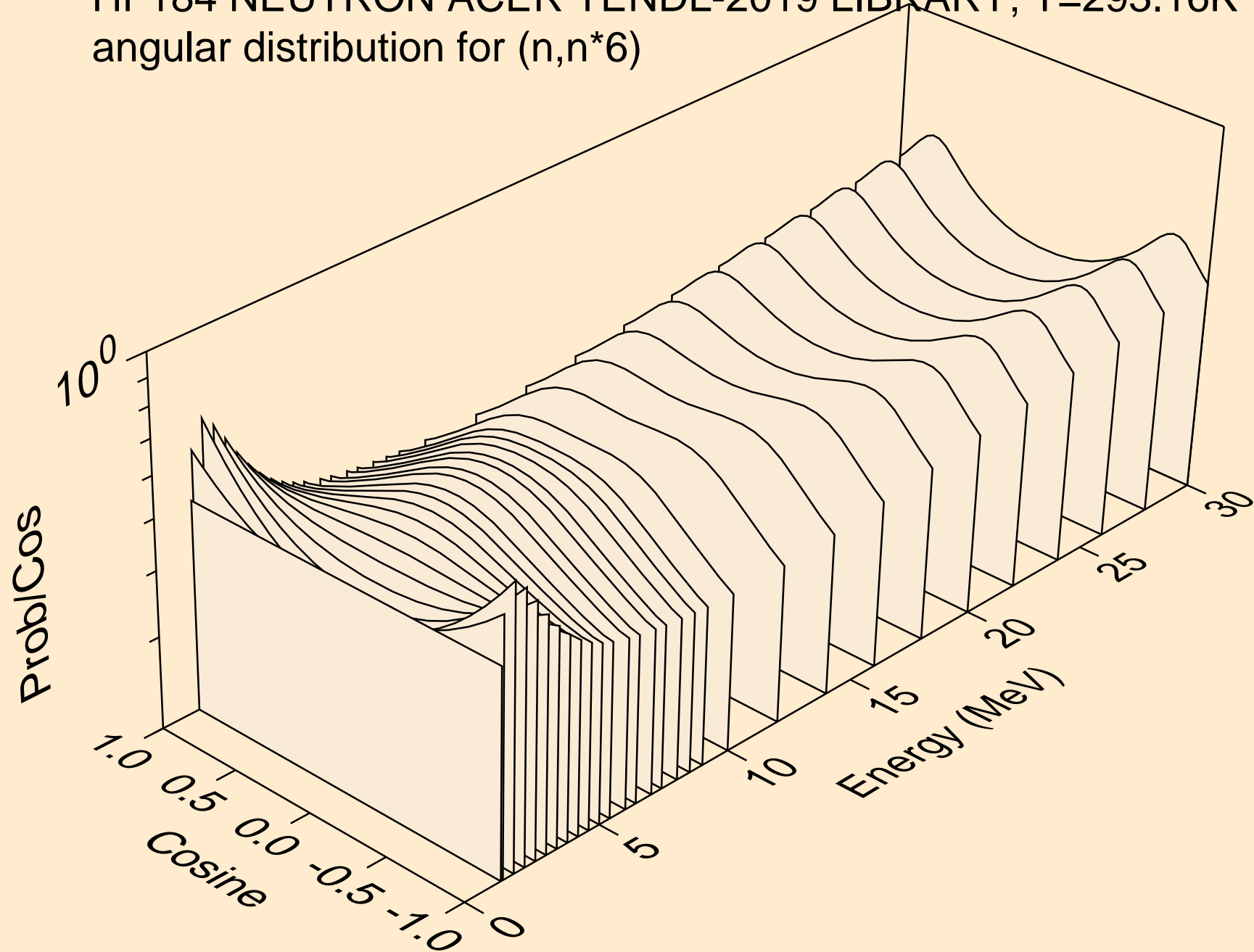
HF184 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*4)



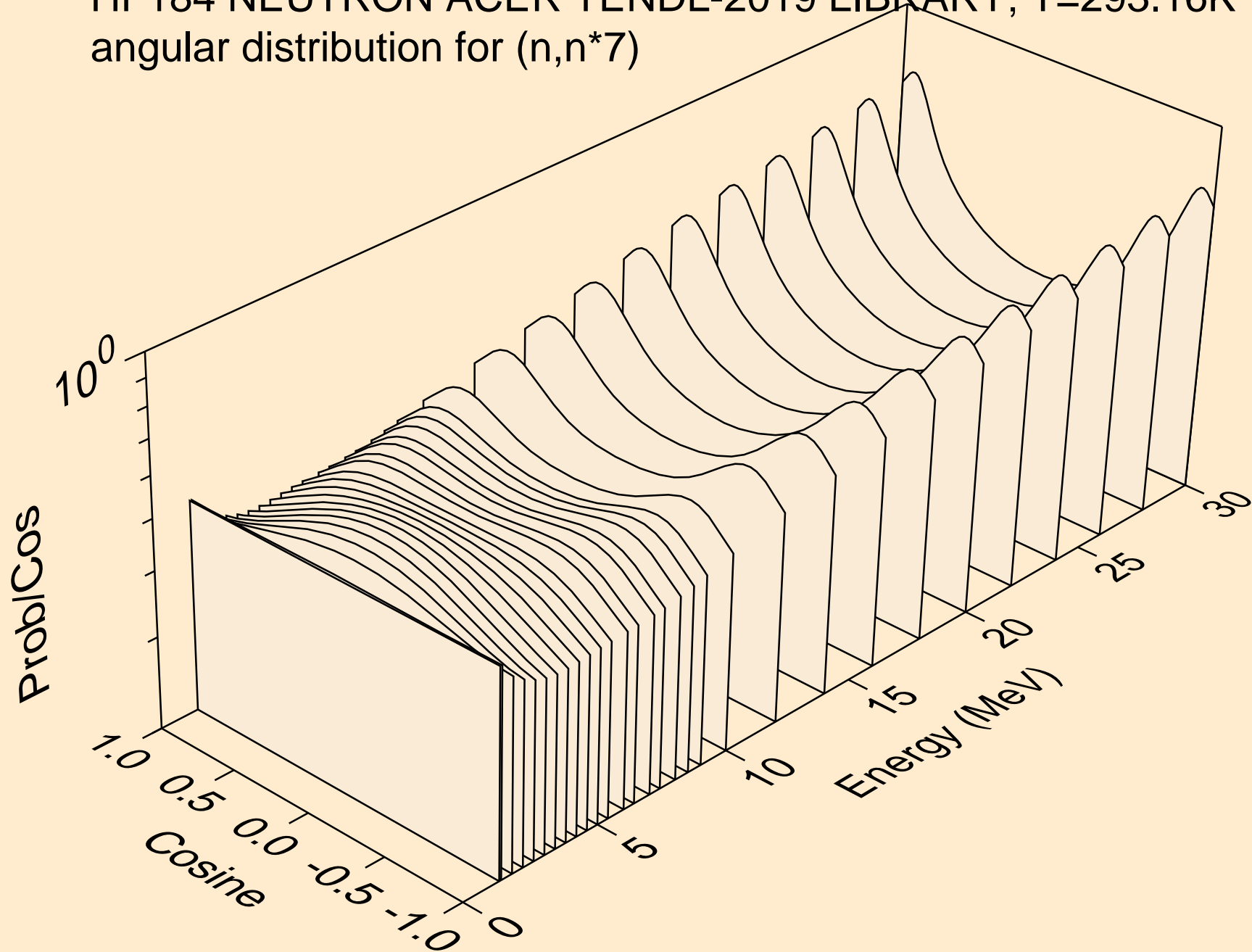
HF184 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*5)



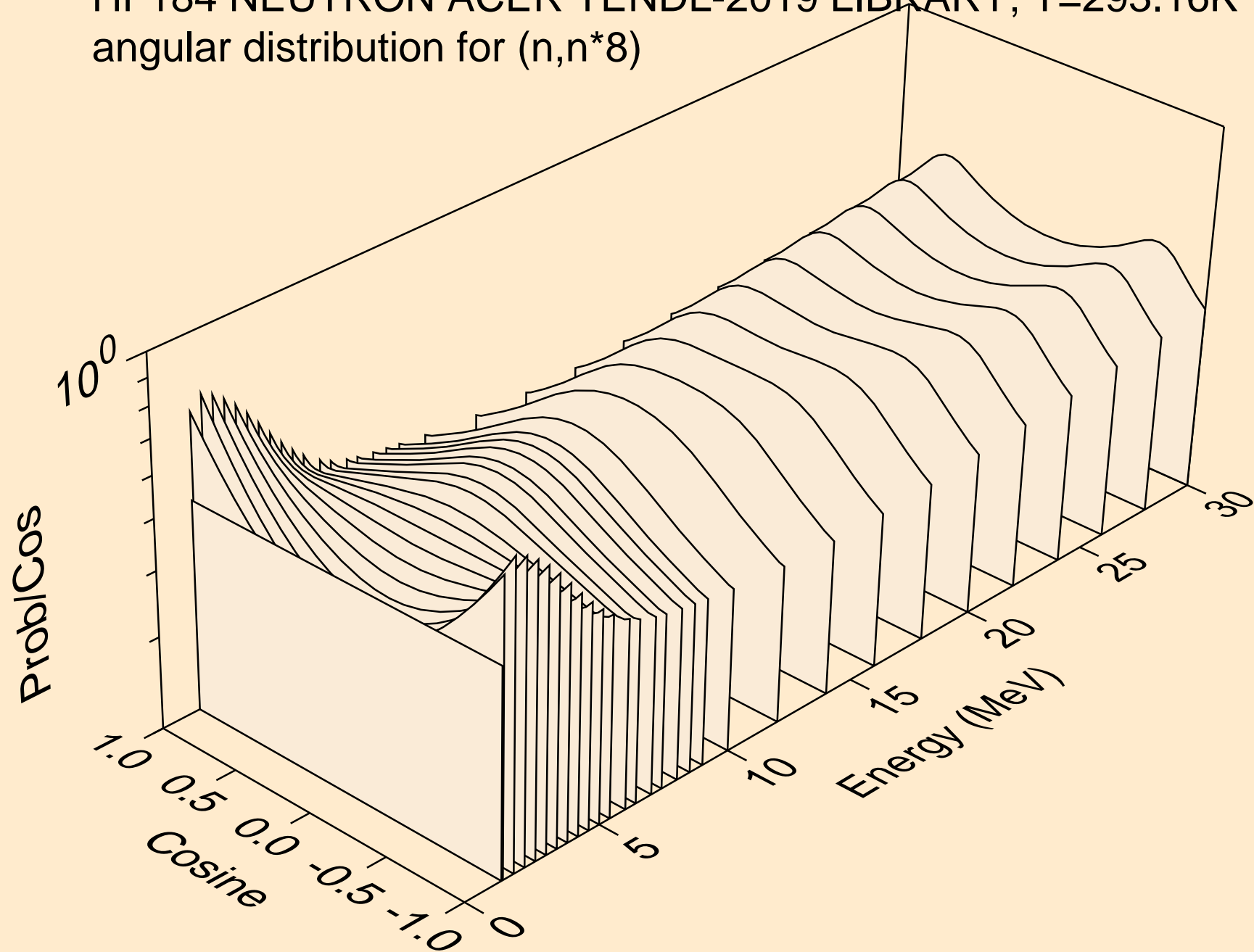
HF184 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*6)



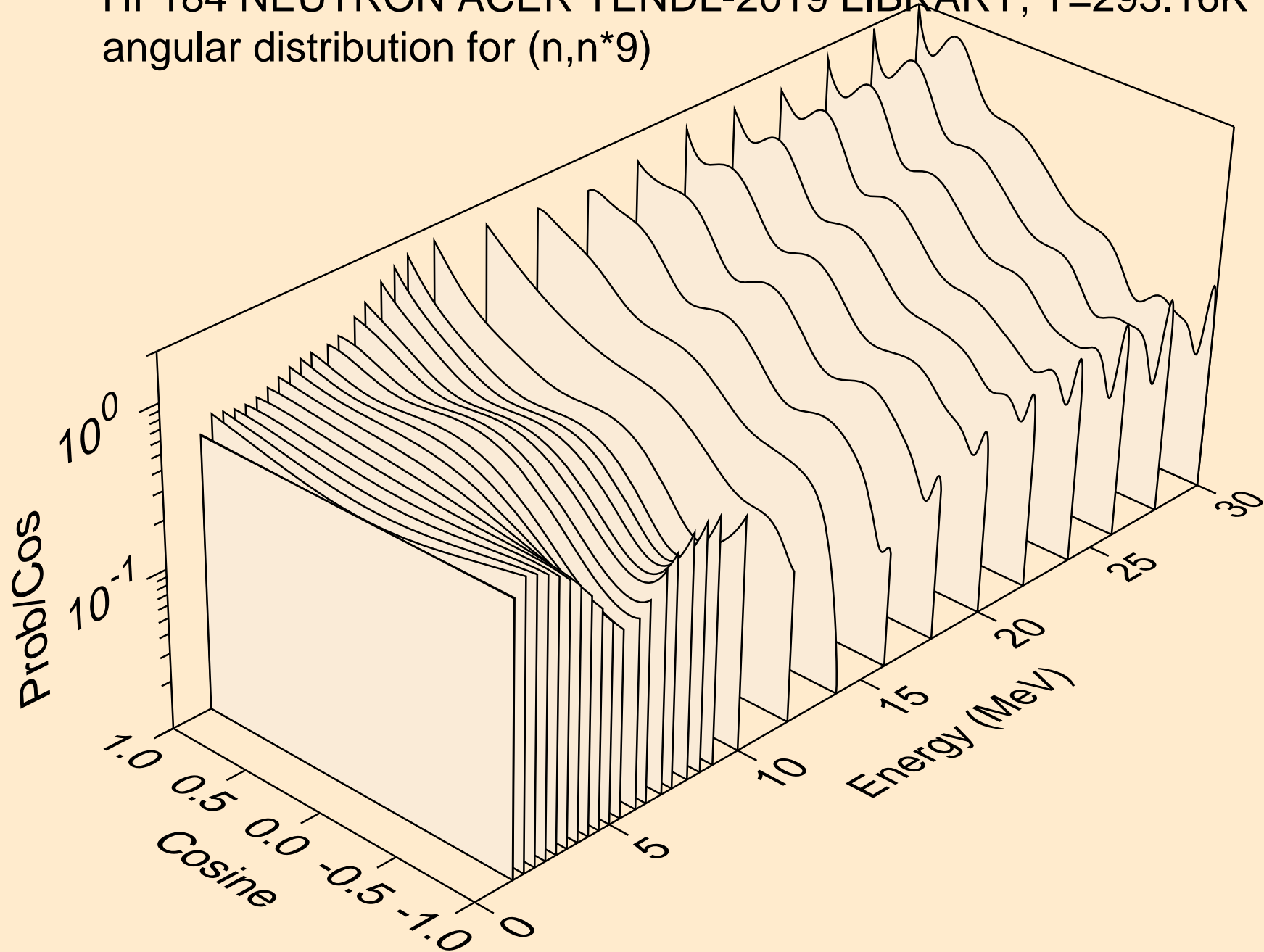
HF184 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*7)



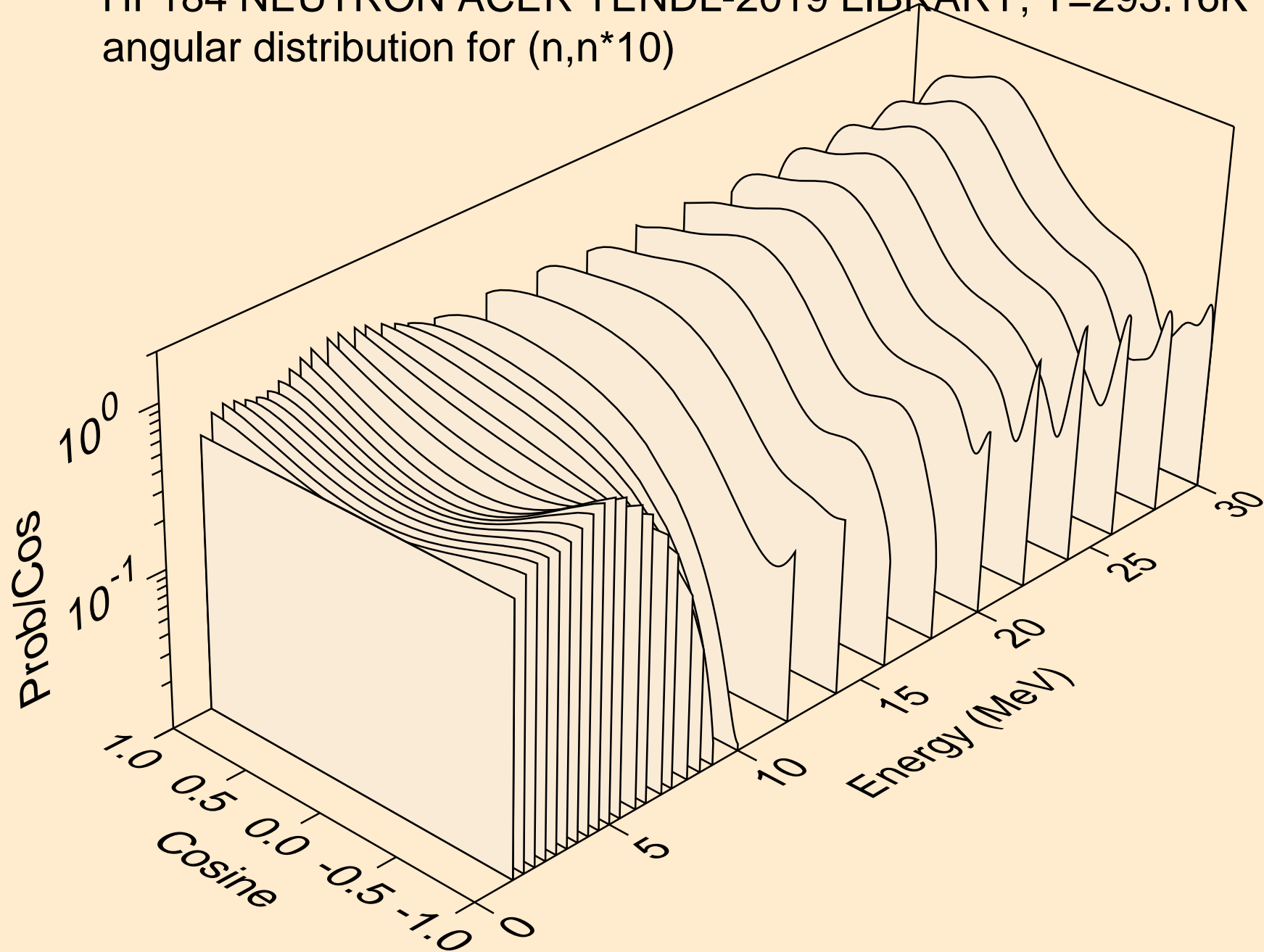
HF184 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*8)



HF184 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*9)

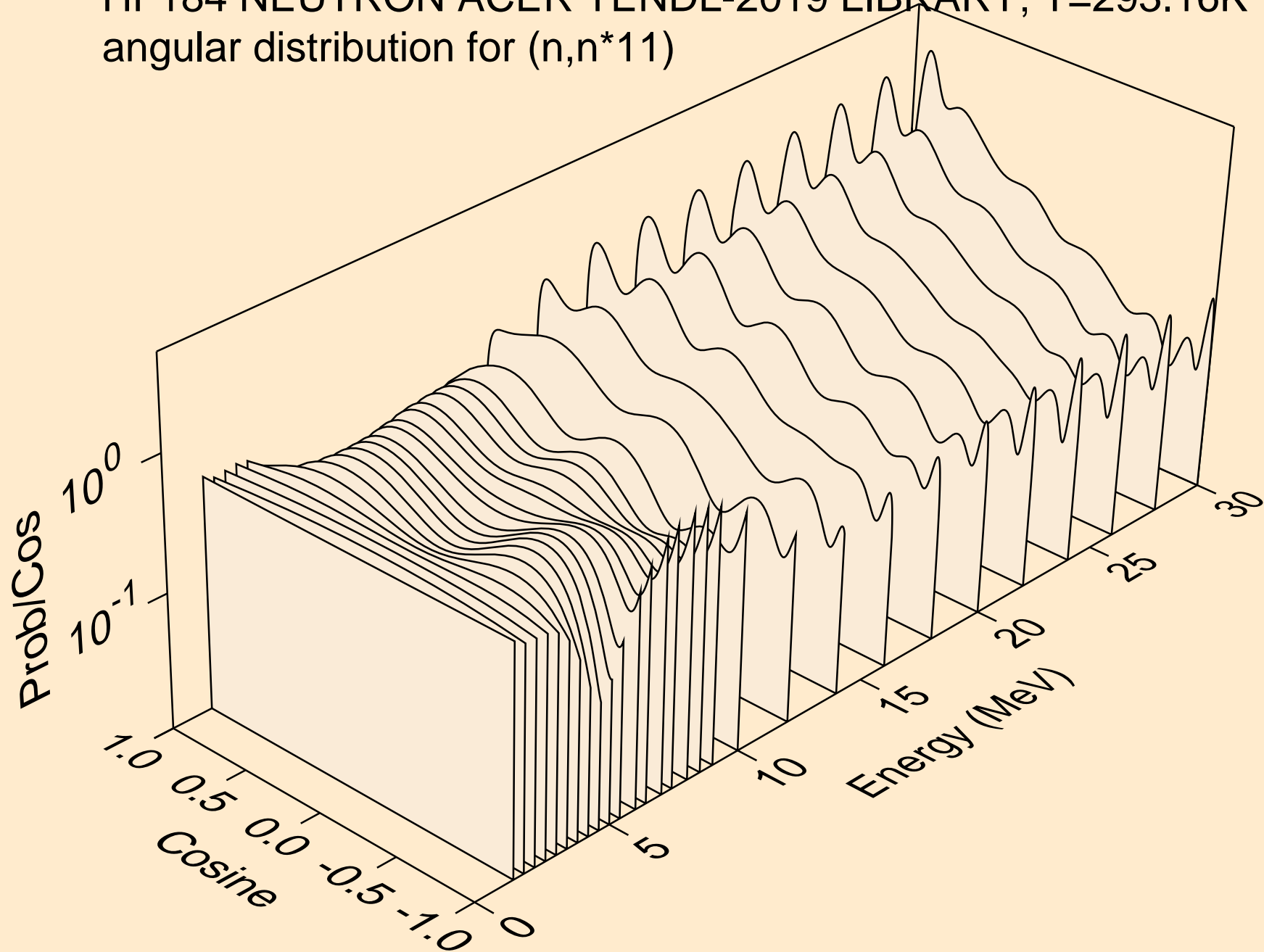


HF184 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*10)

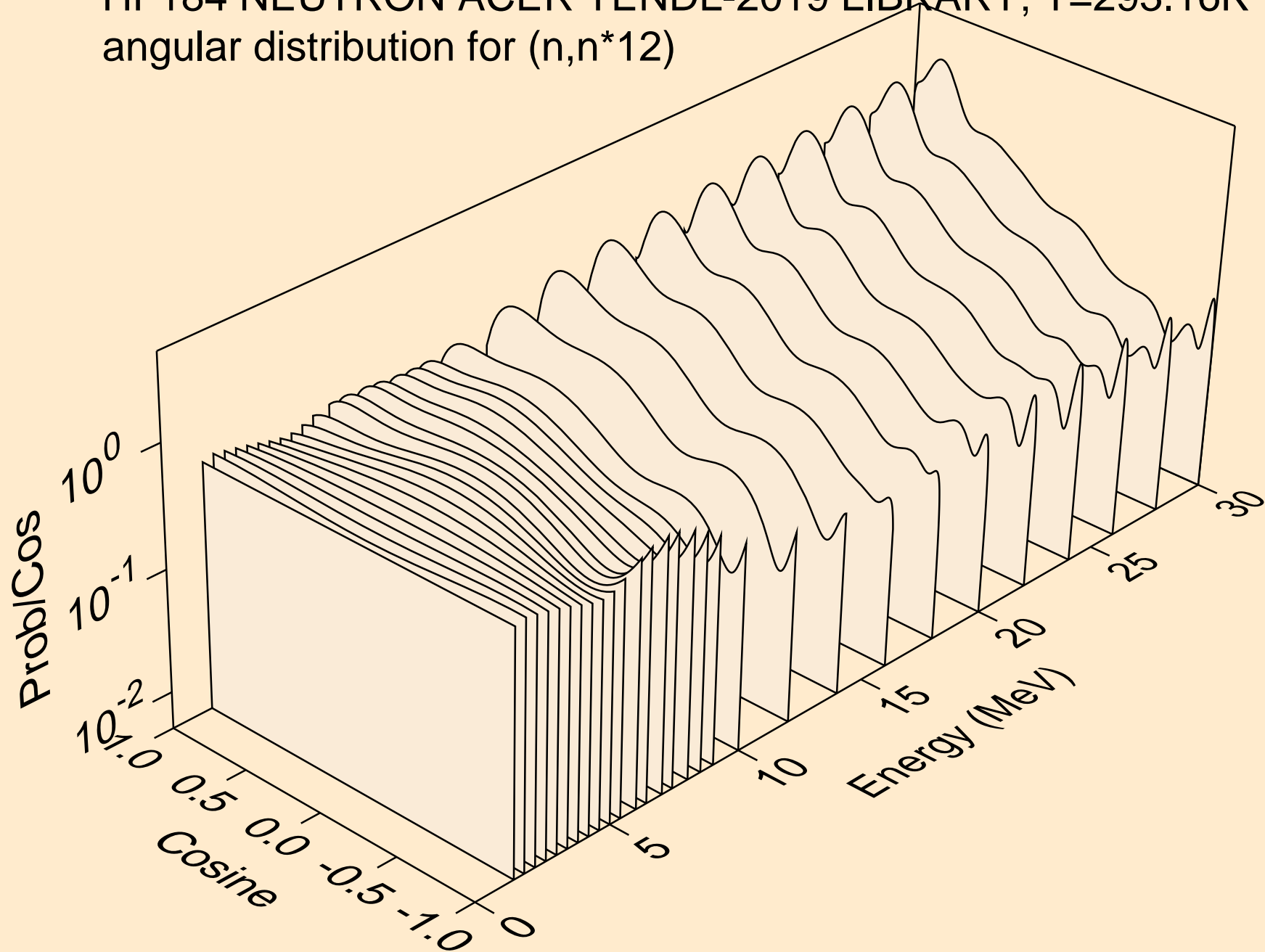




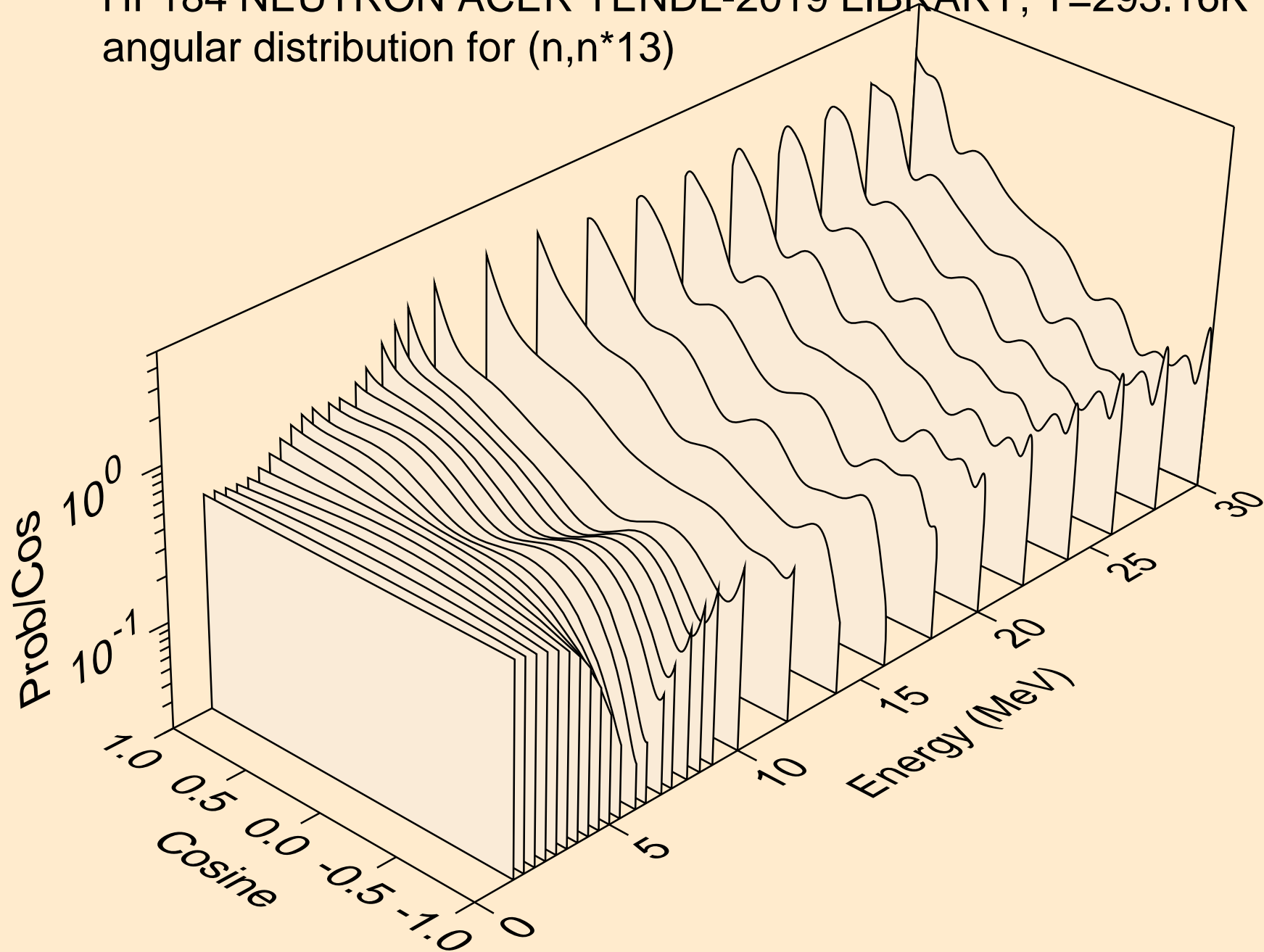
HF184 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*11)



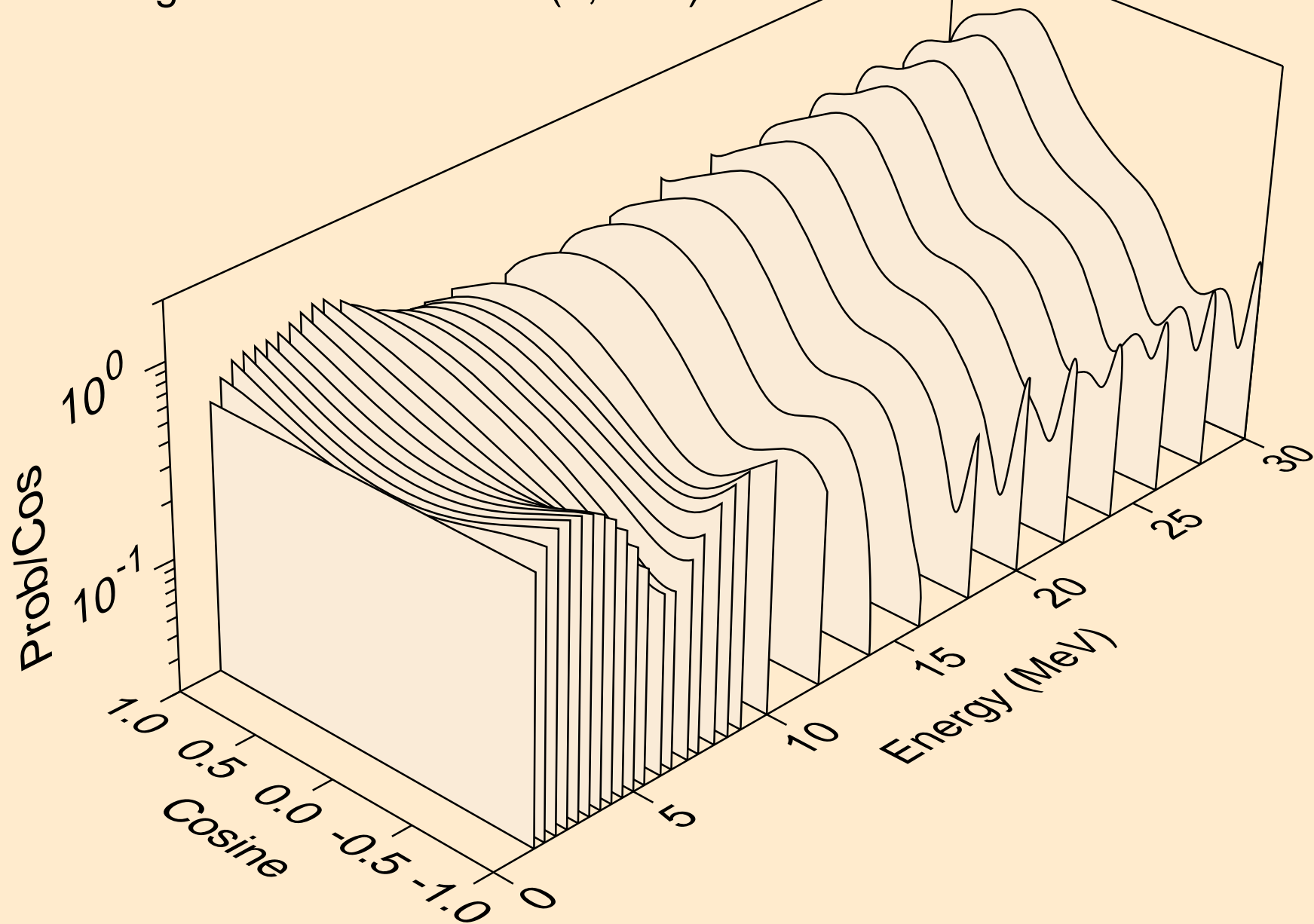
HF184 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*12)



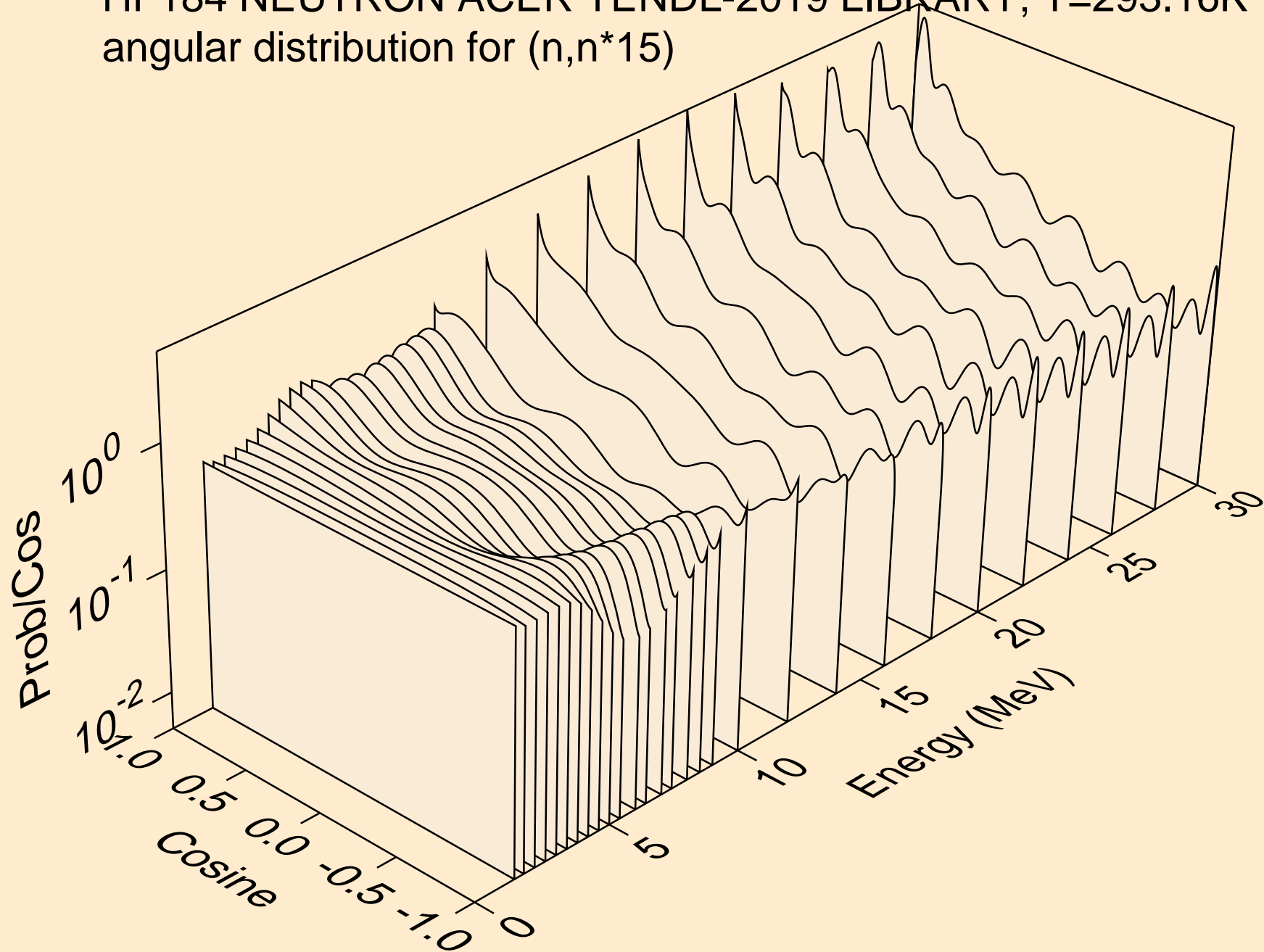
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angular distribution for (n,n\*13)



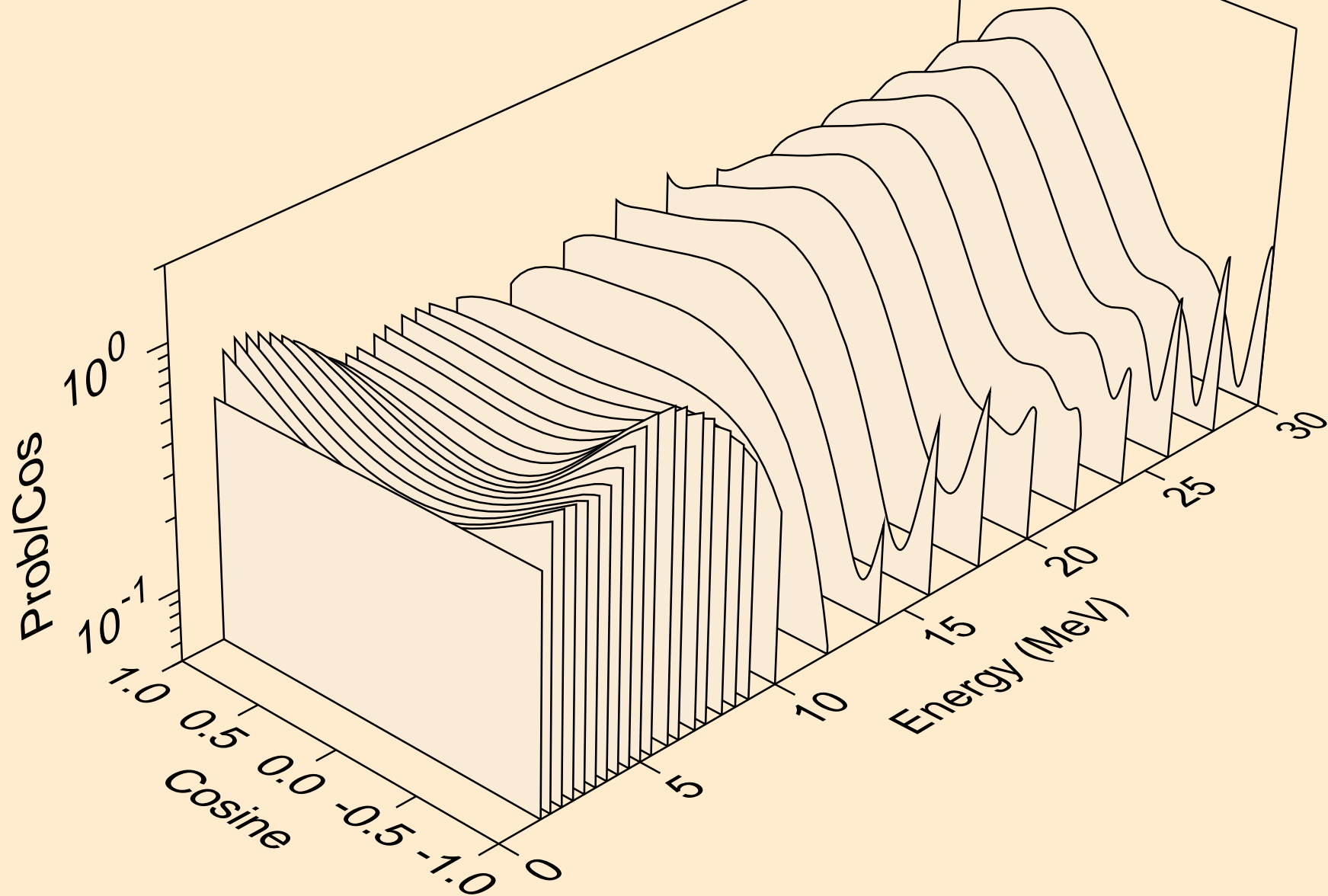
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angular distribution for (n,n\*14)



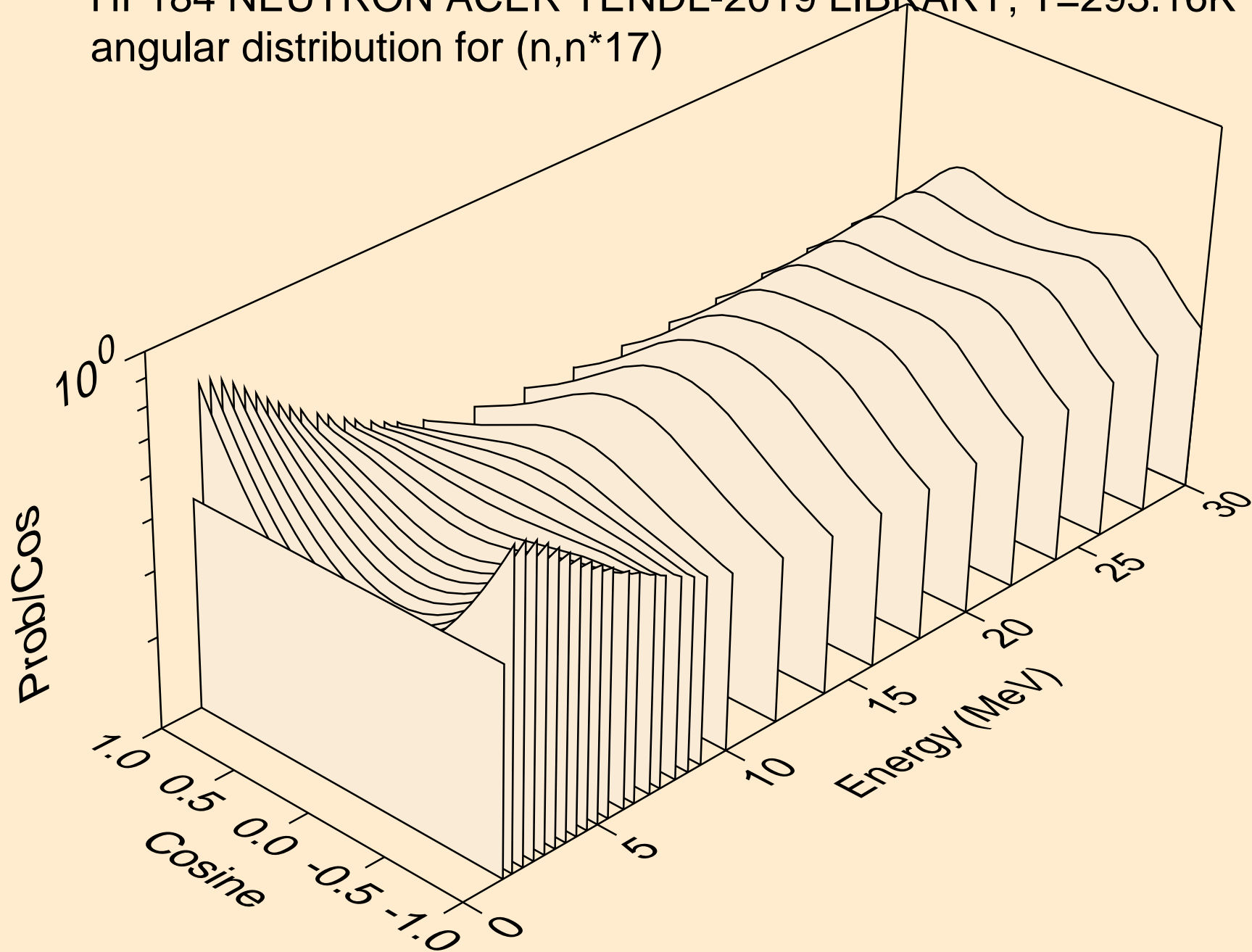
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angular distribution for (n,n\*15)



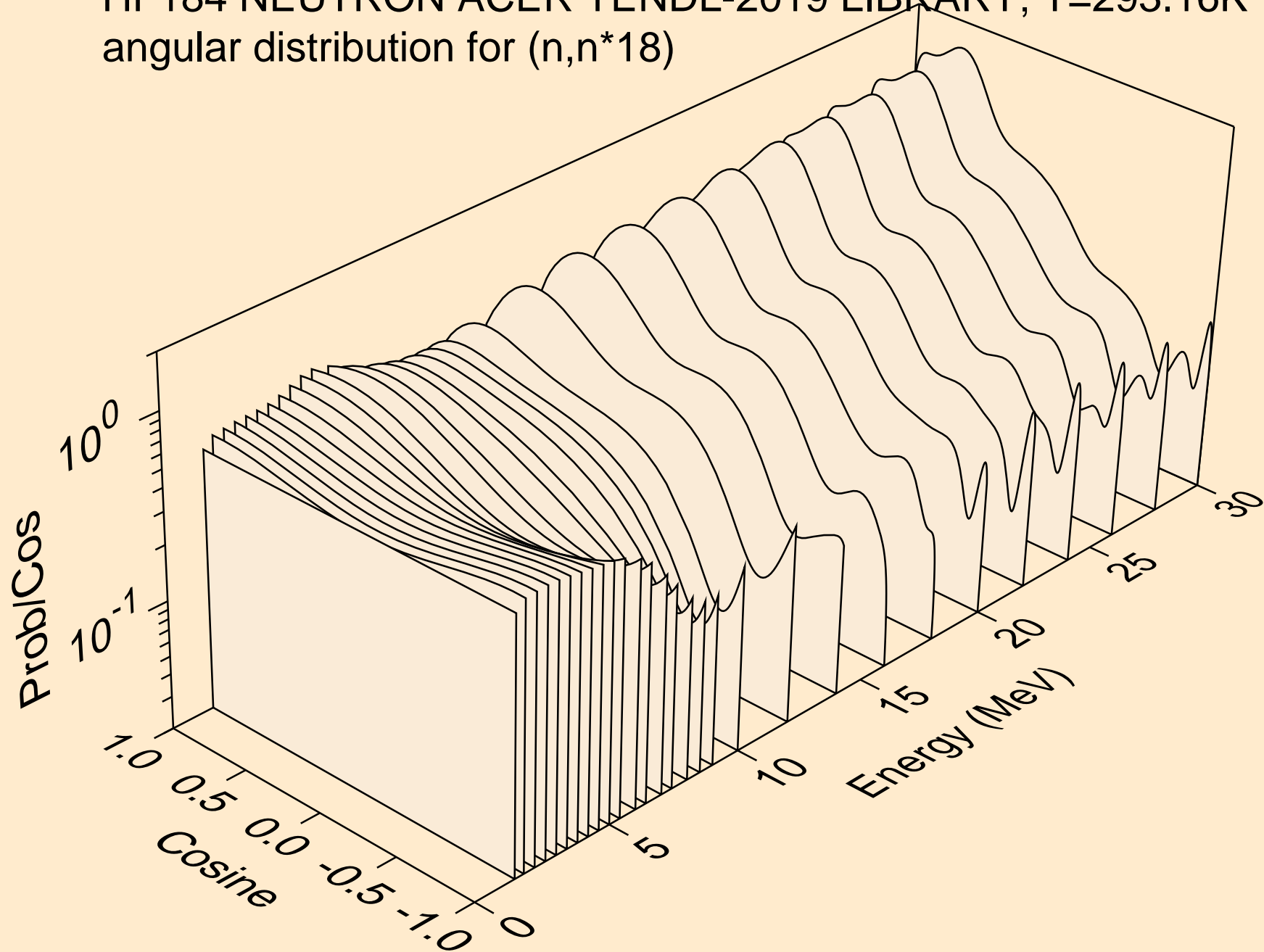
HF184 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*16)



HF184 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*17)

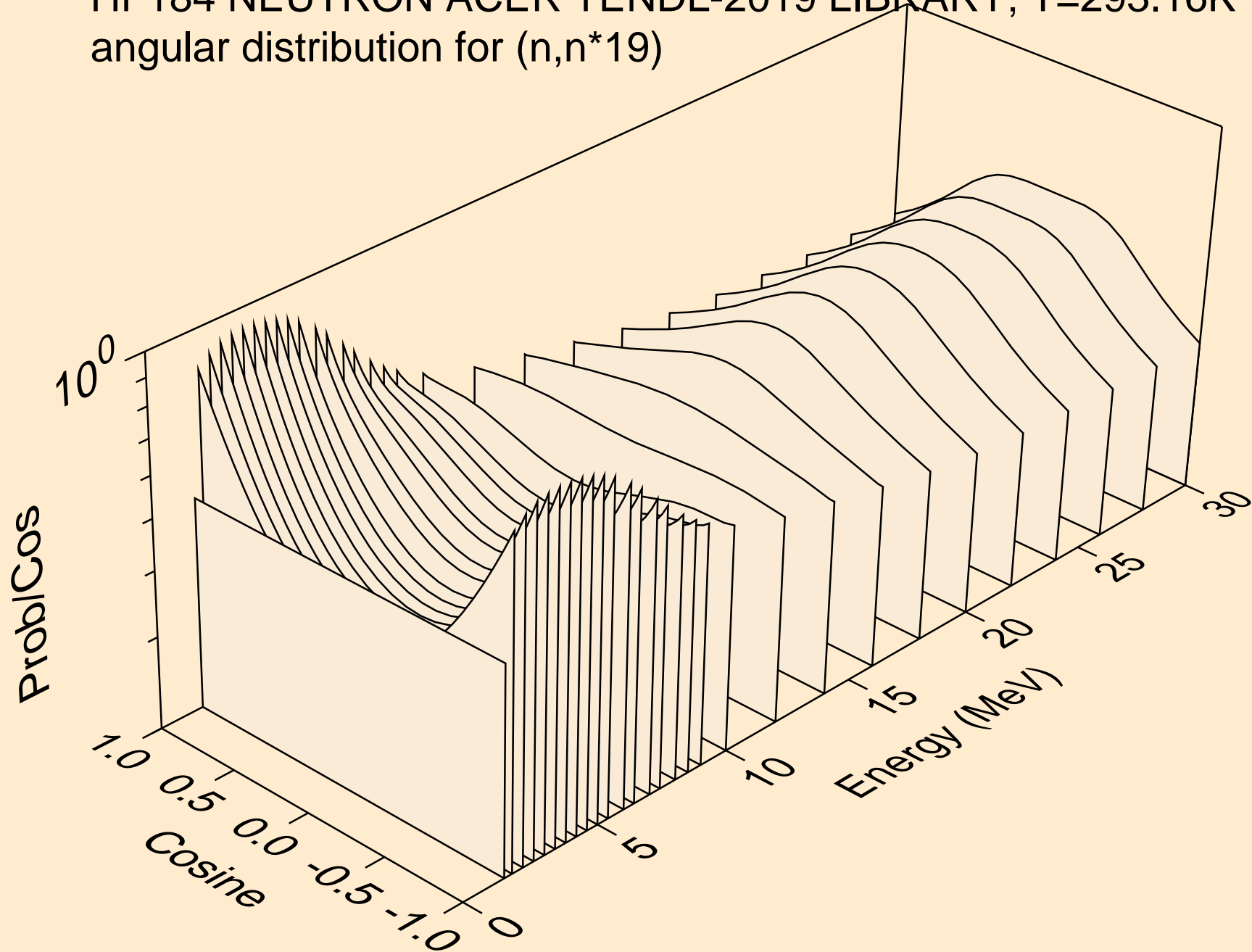


HF184 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*18)

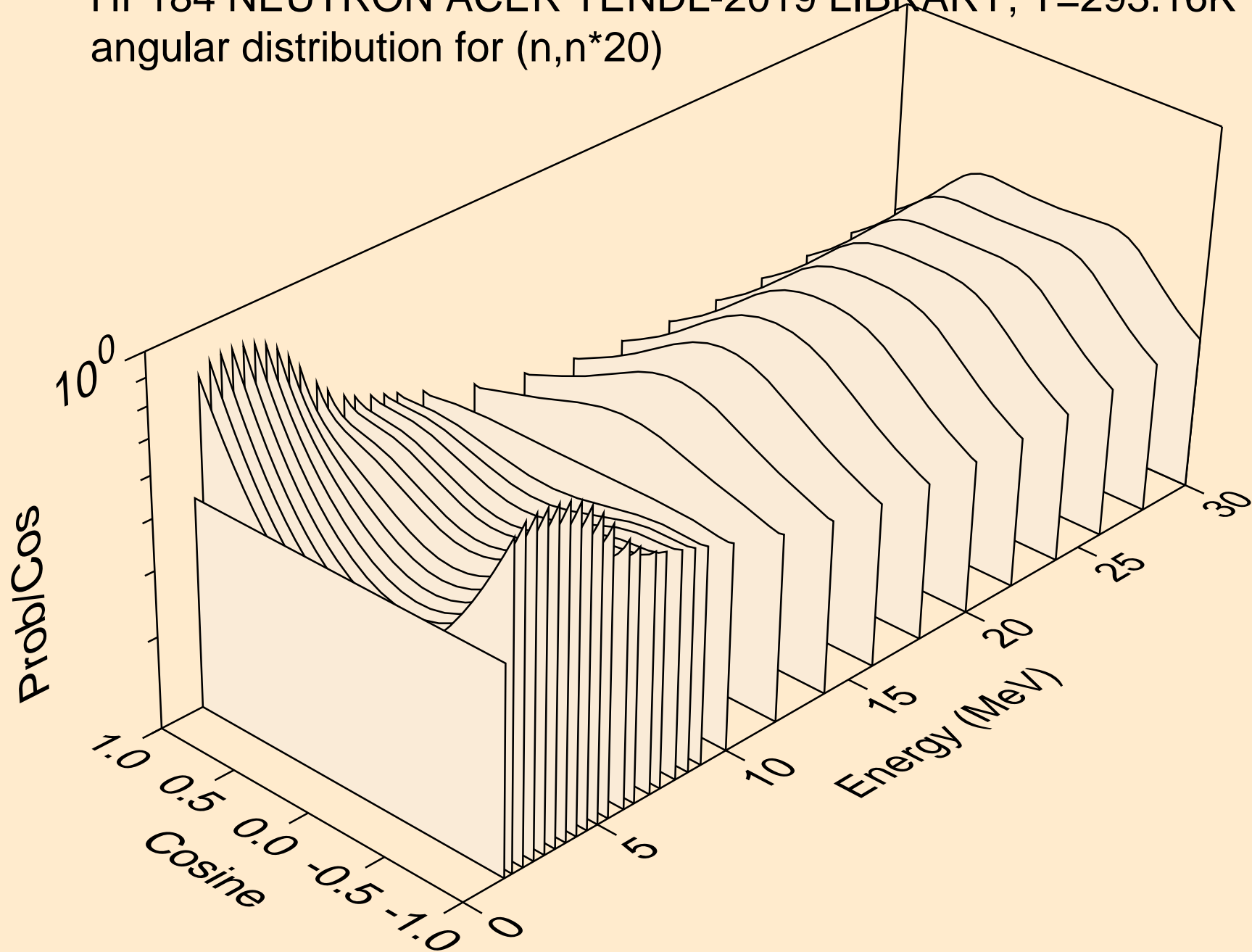




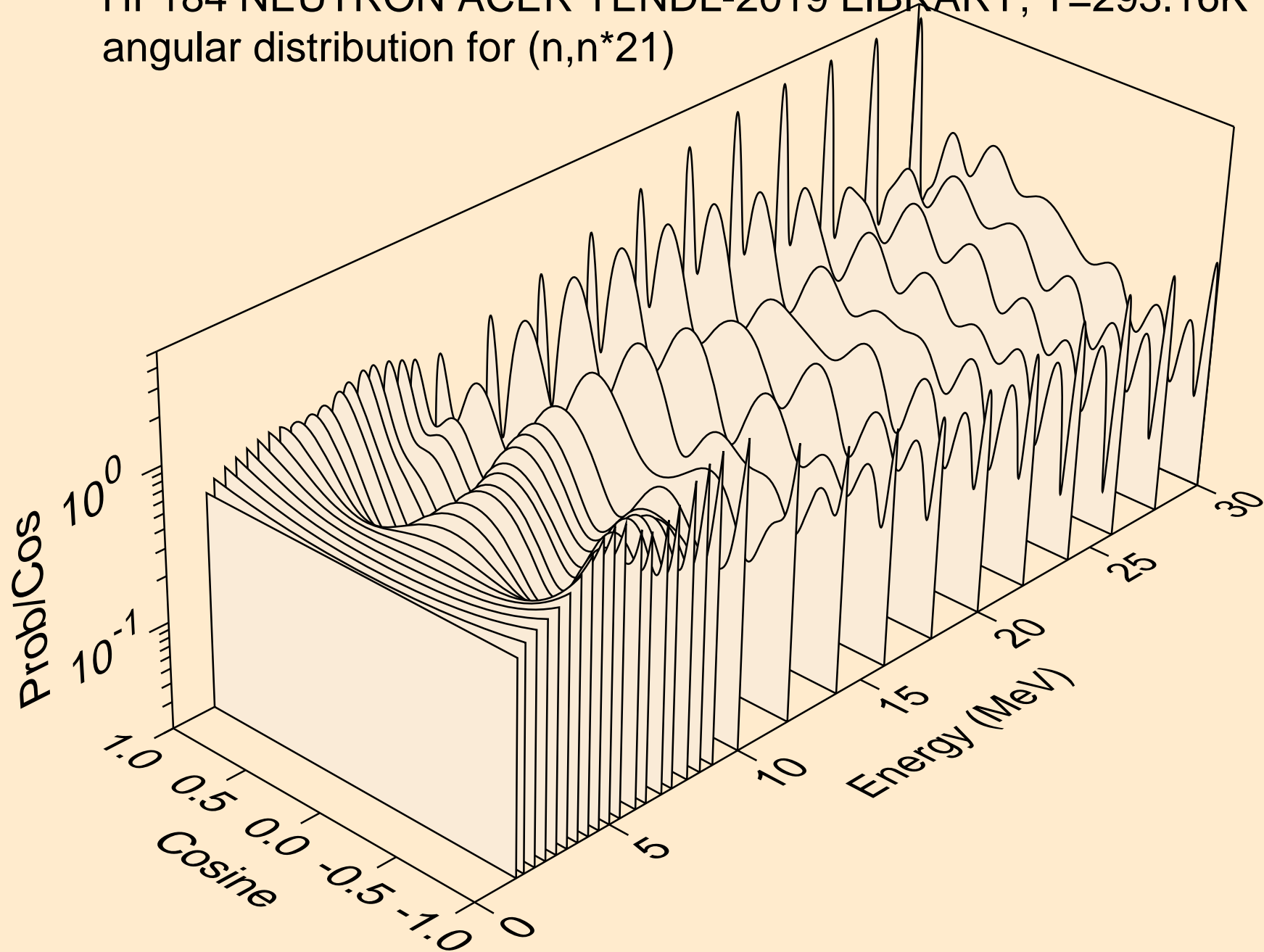
HF184 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*19)



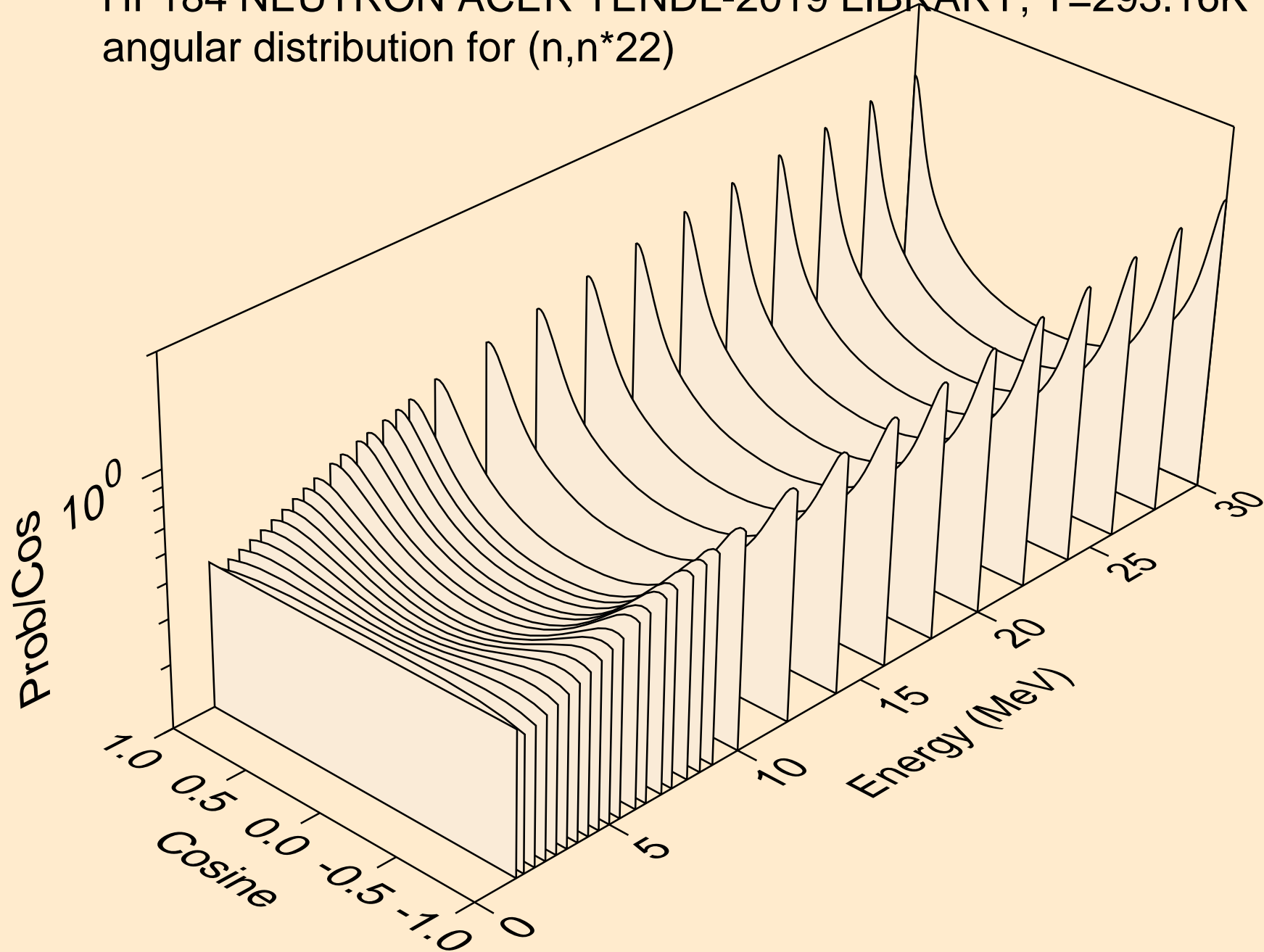
HF184 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*20)



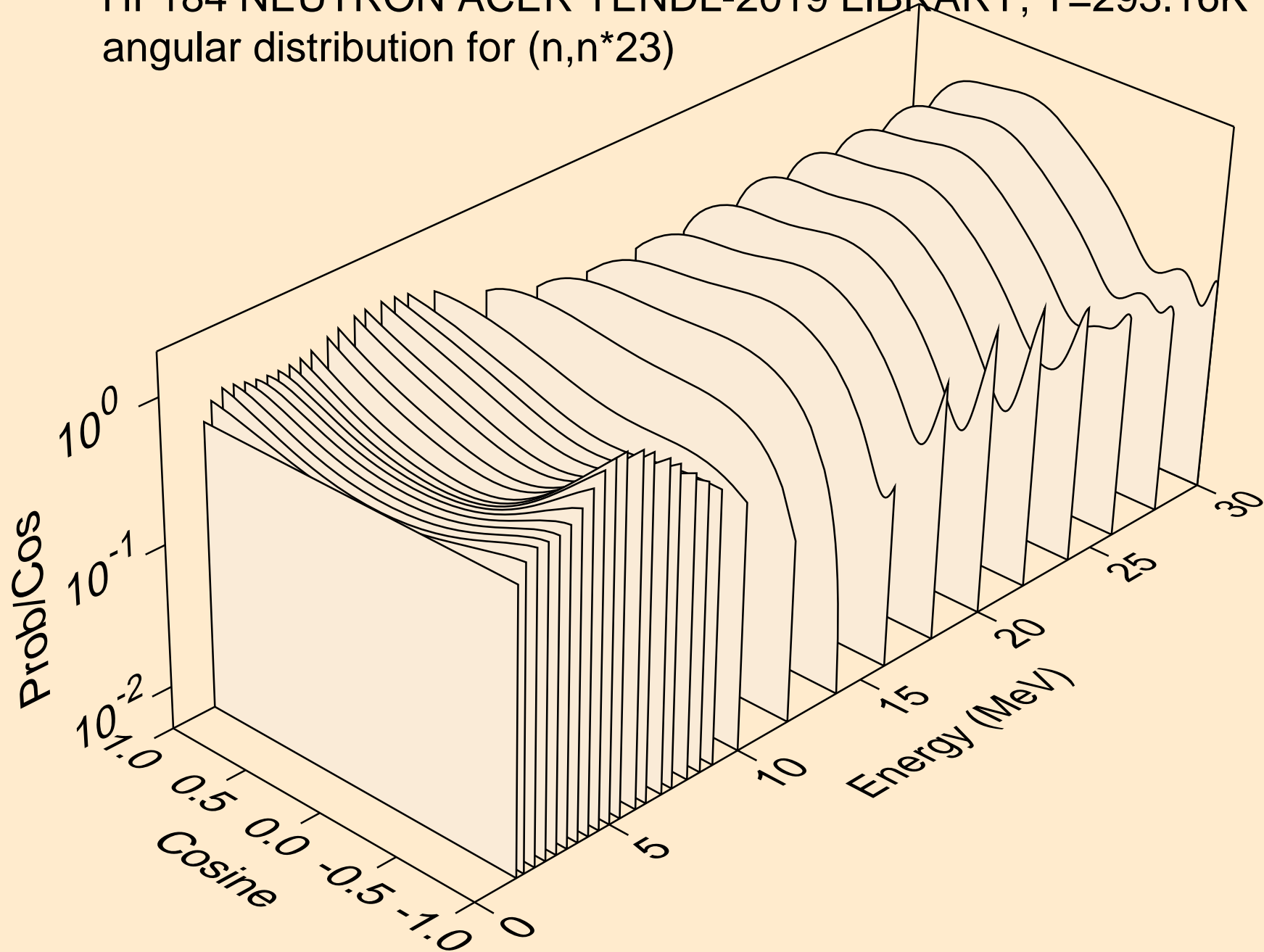
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angular distribution for (n,n\*21)



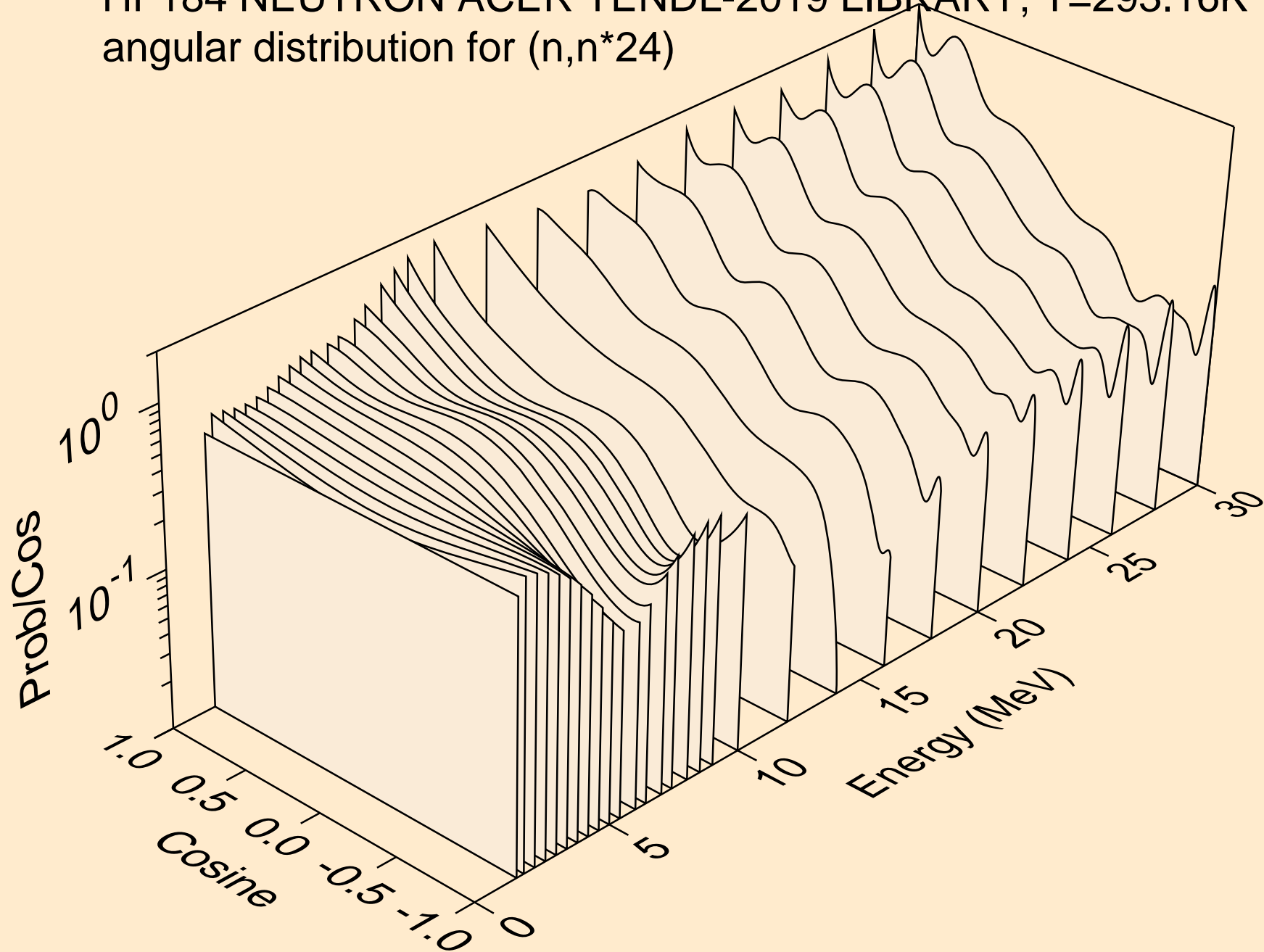
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angular distribution for (n,n\*22)



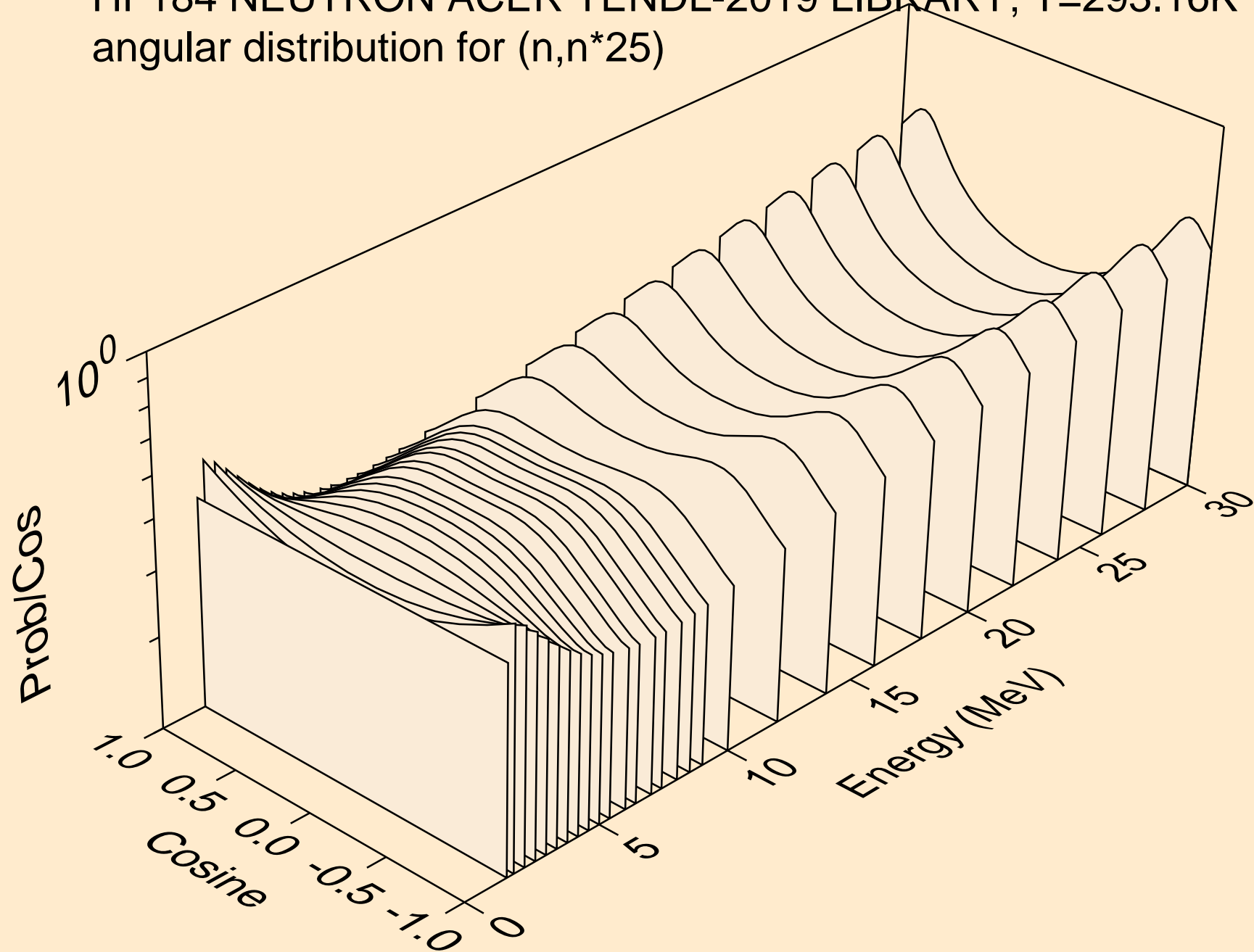
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angular distribution for (n,n\*23)



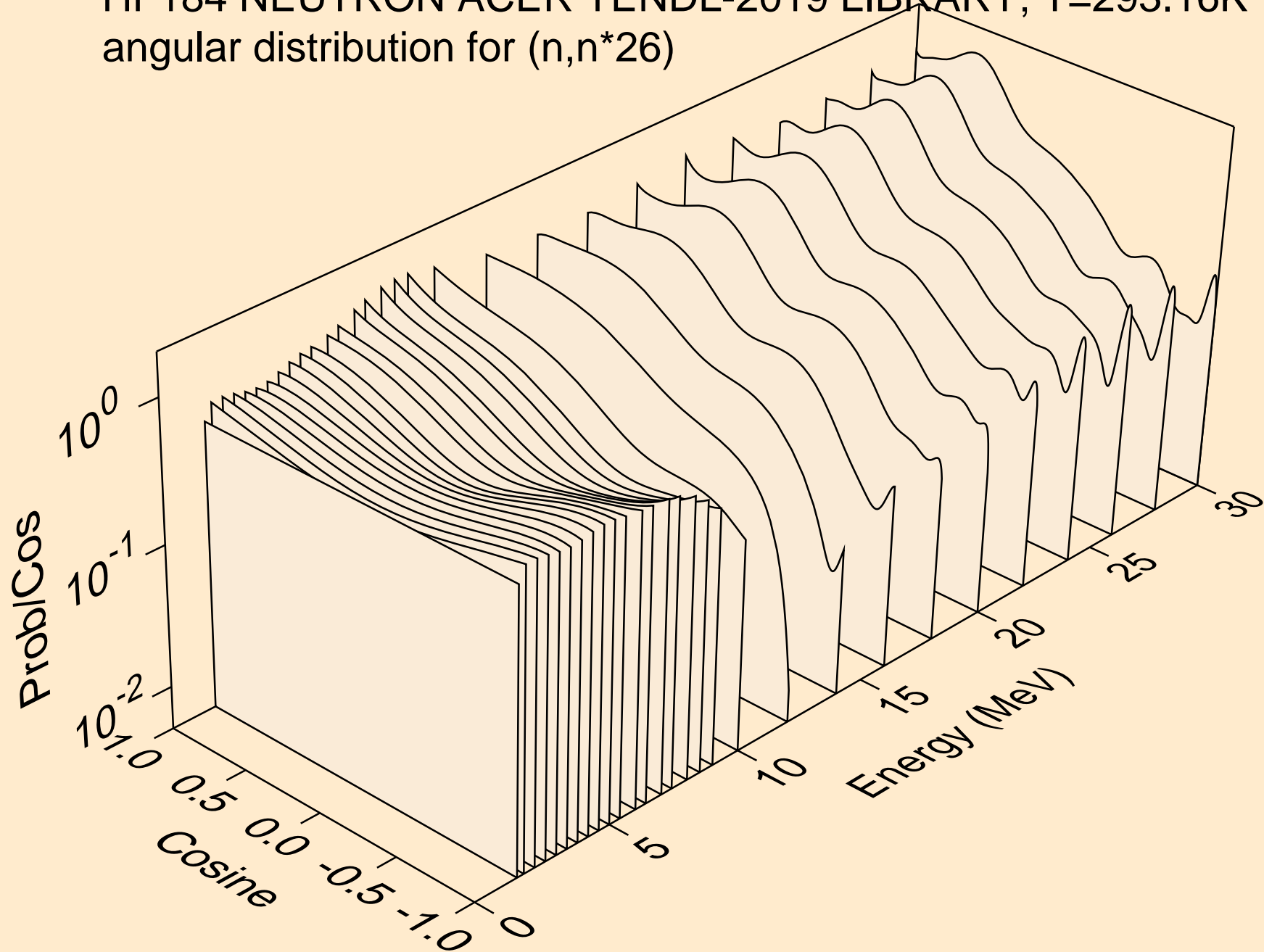
HF184 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*24)



HF184 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*25)

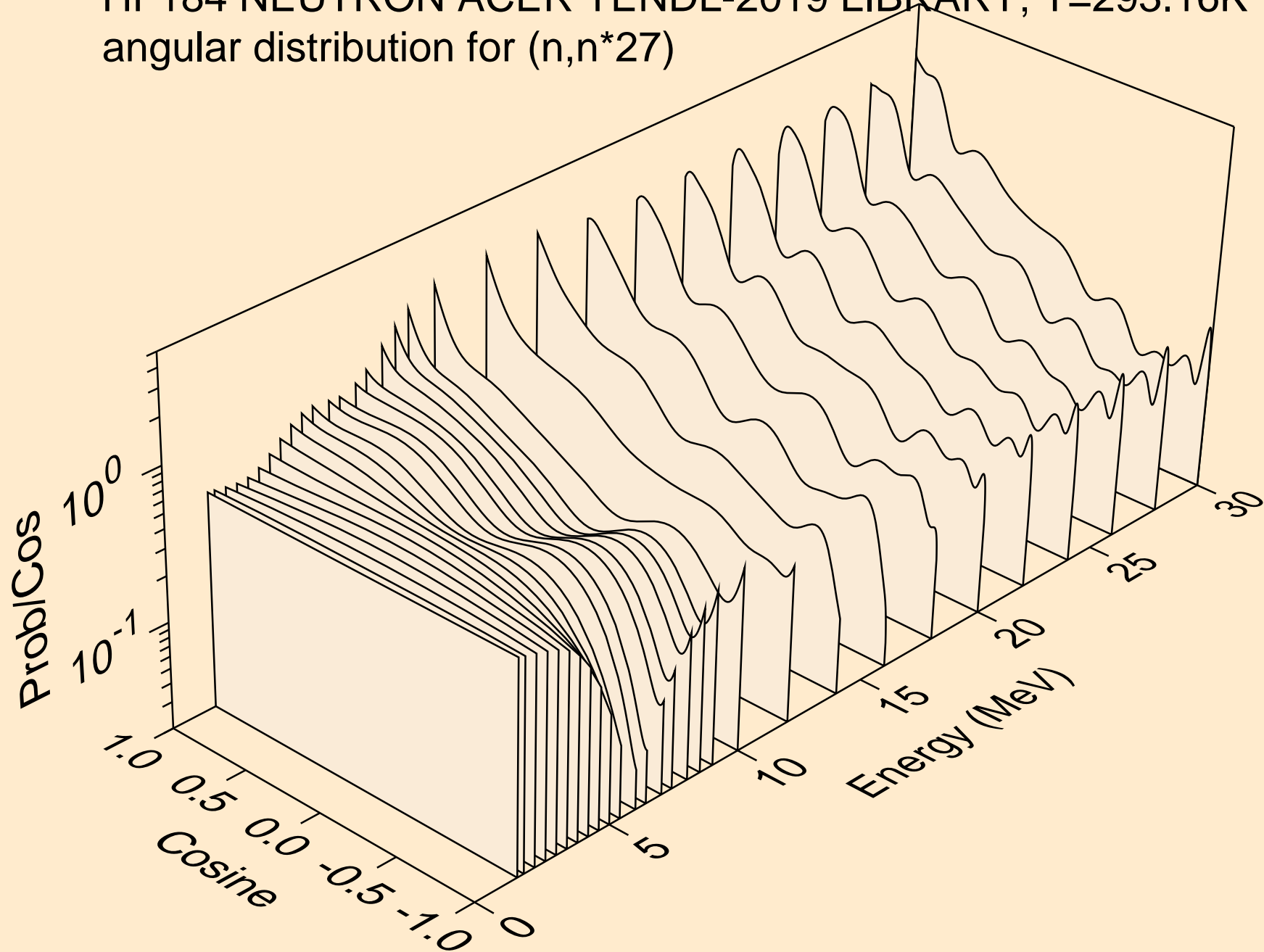


HF184 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*26)

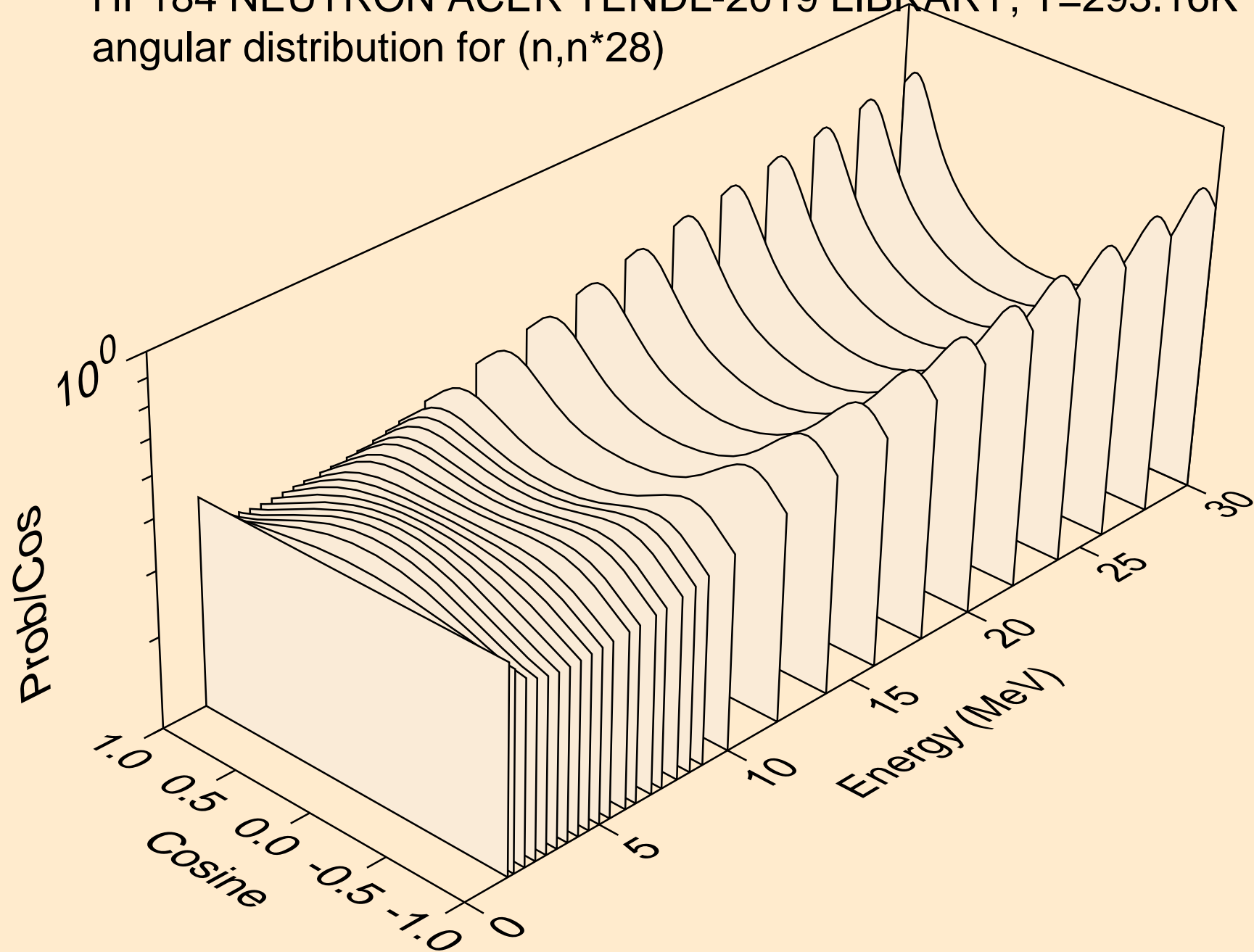




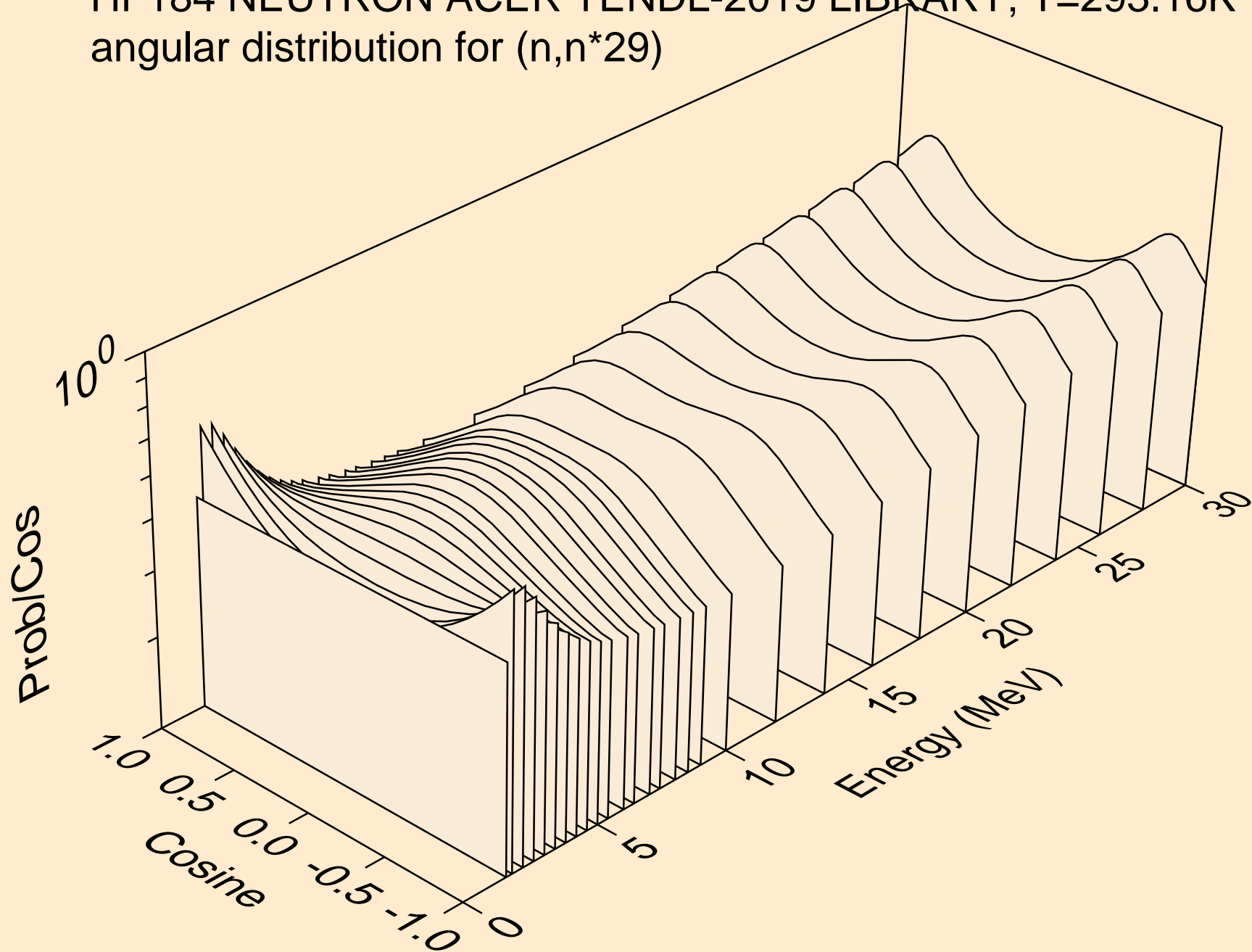
HF184 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*27)



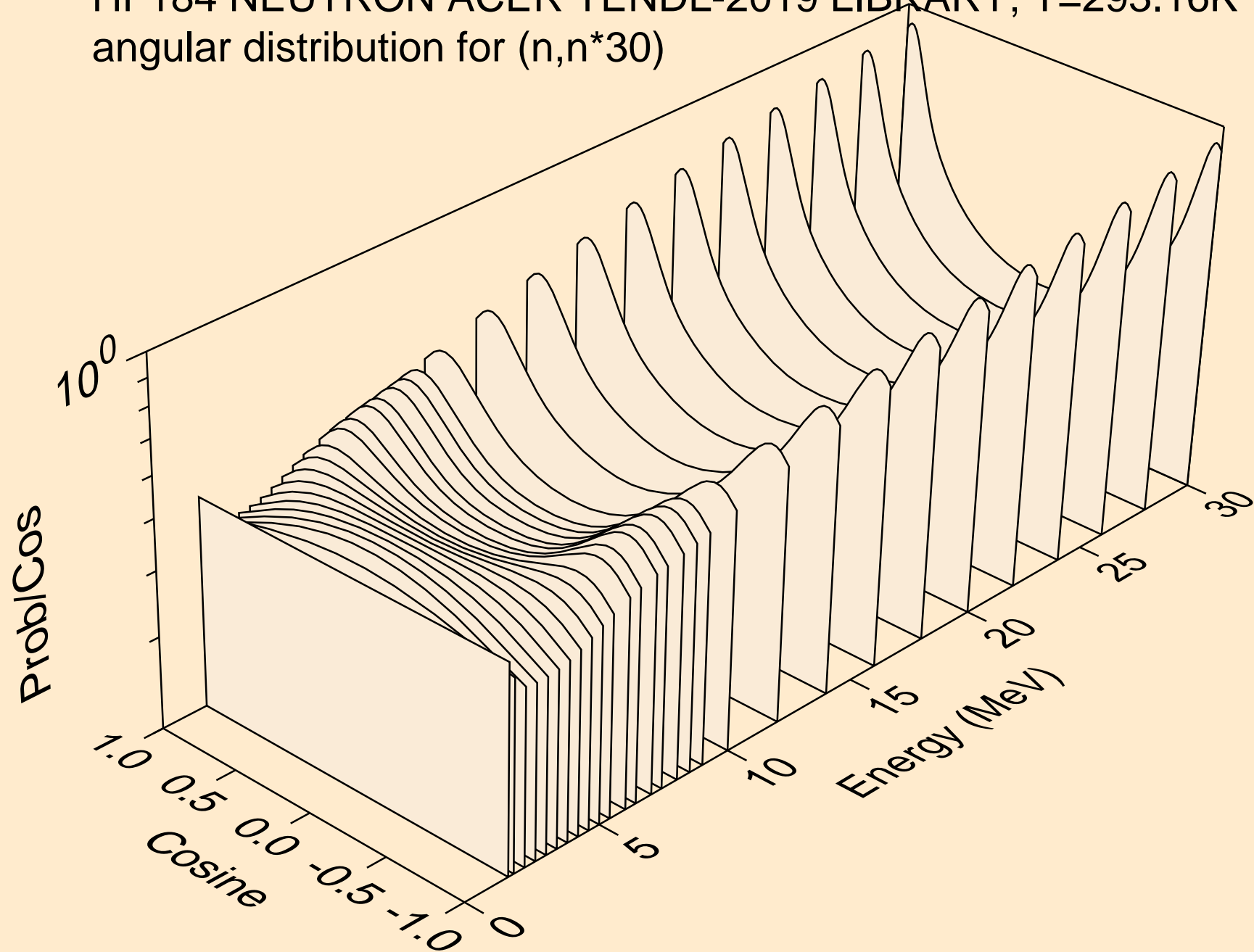
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angular distribution for (n,n\*28)



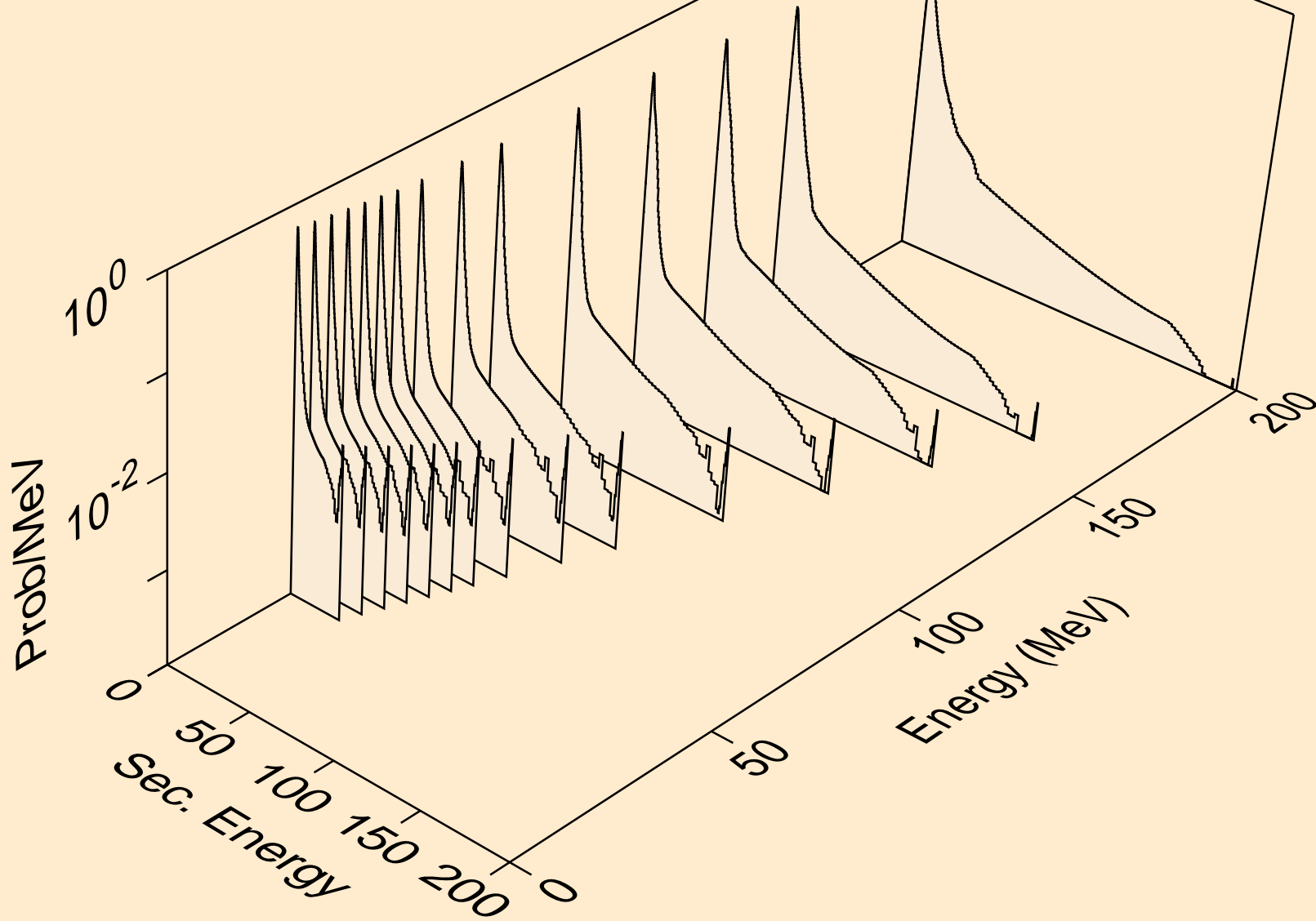
HF184 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*29)



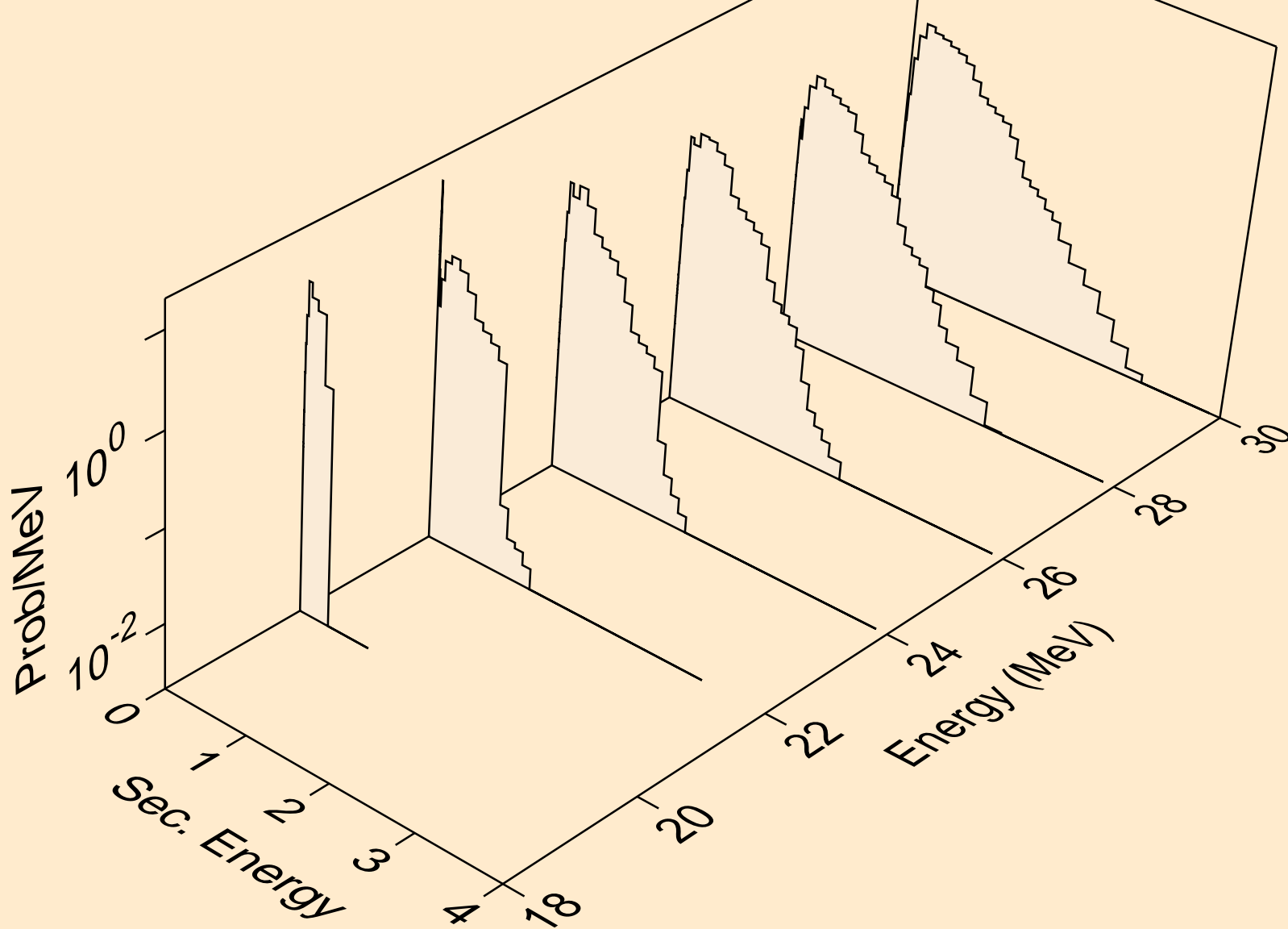
HF184 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*30)



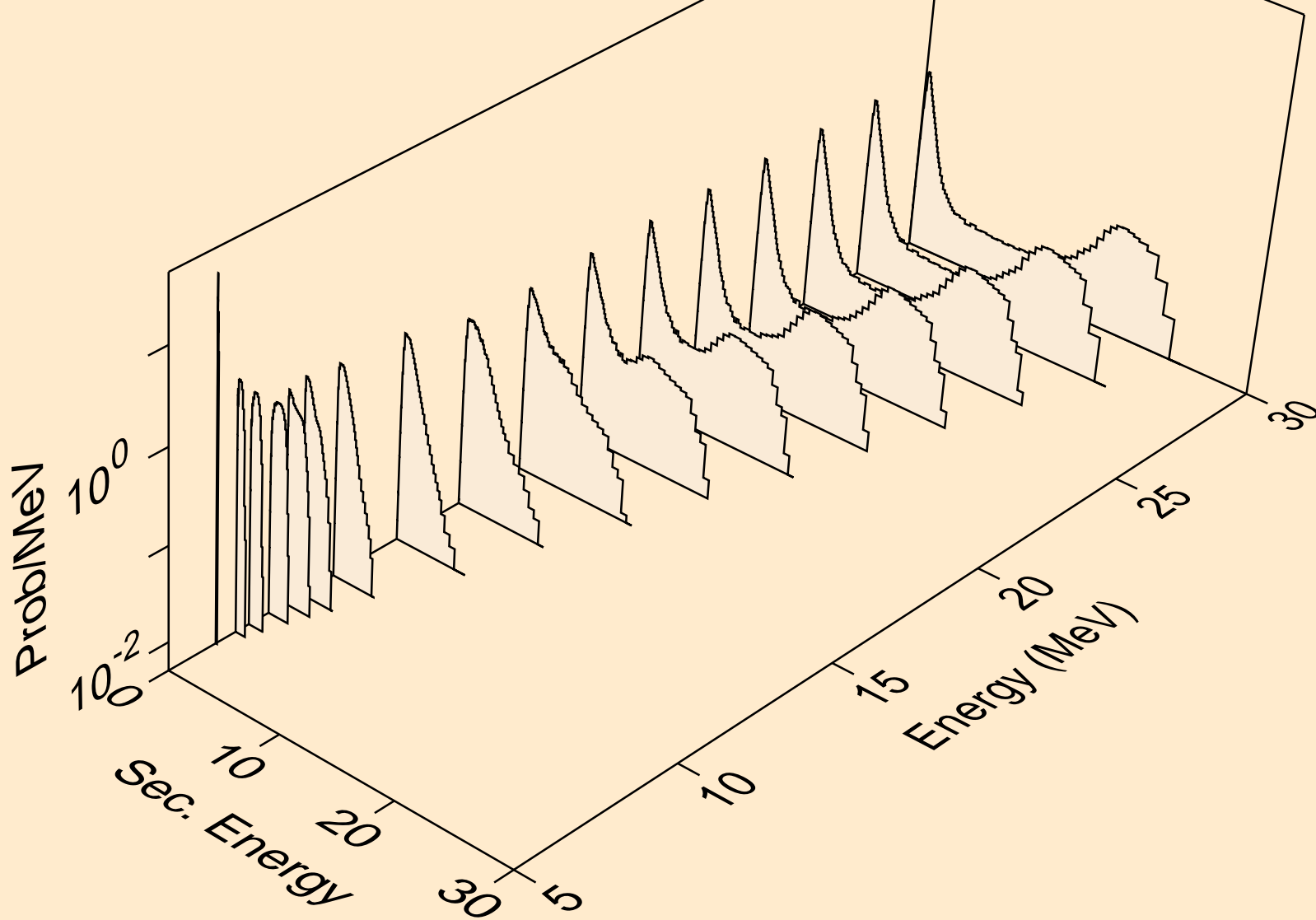
HF184 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,x)



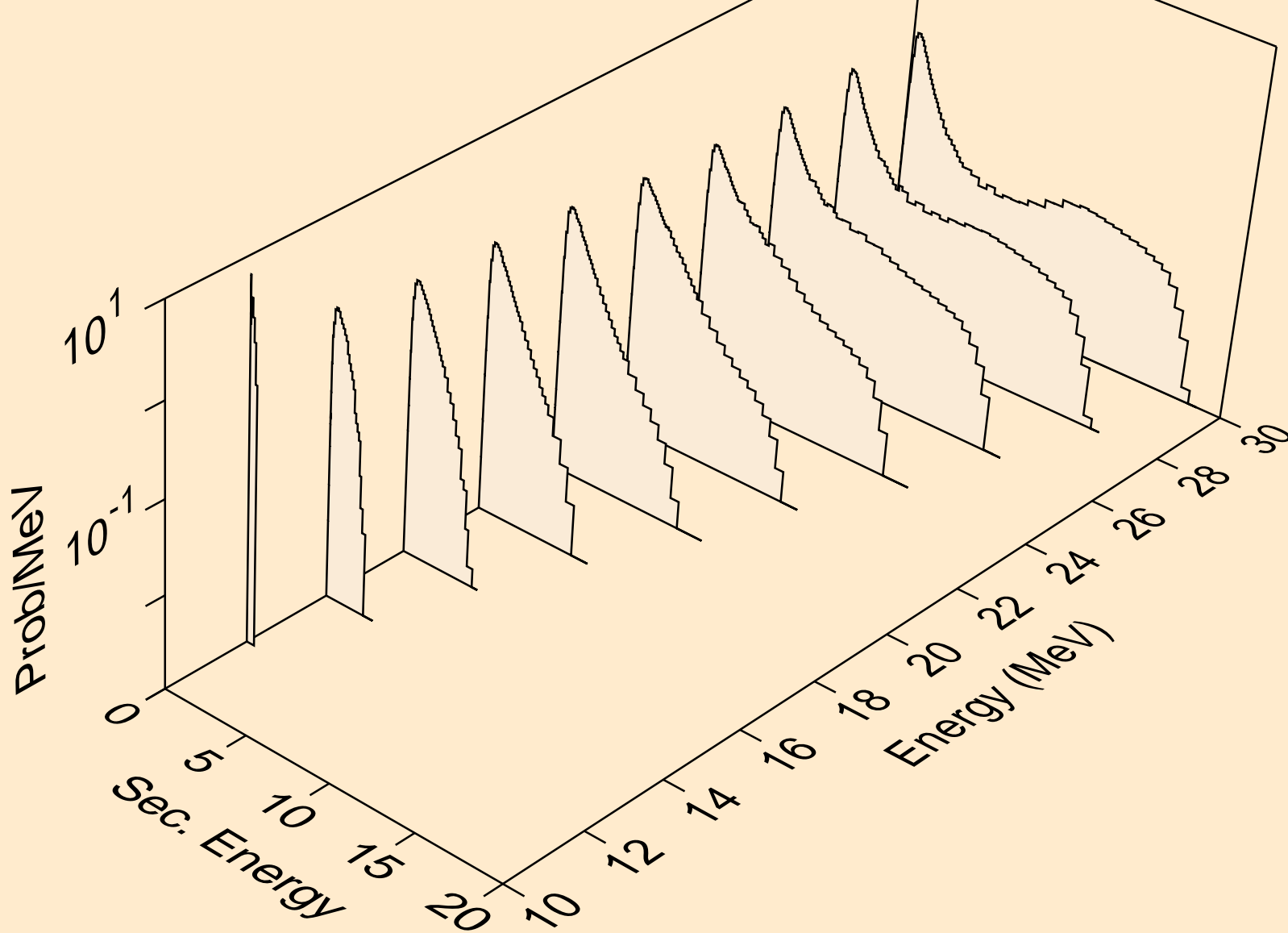
HF184 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,2nd)



HF184 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,2n)

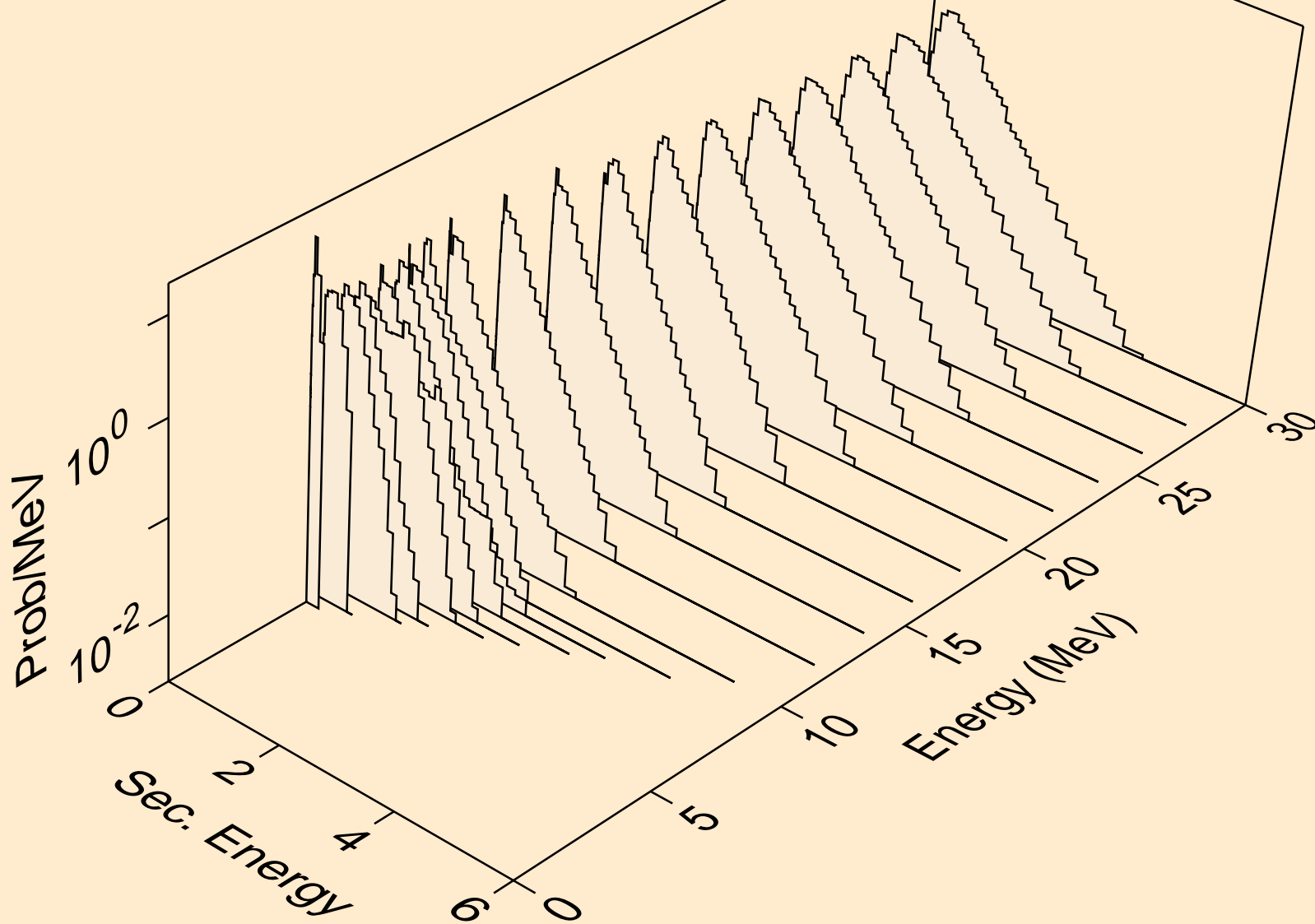


HF184 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,3n)

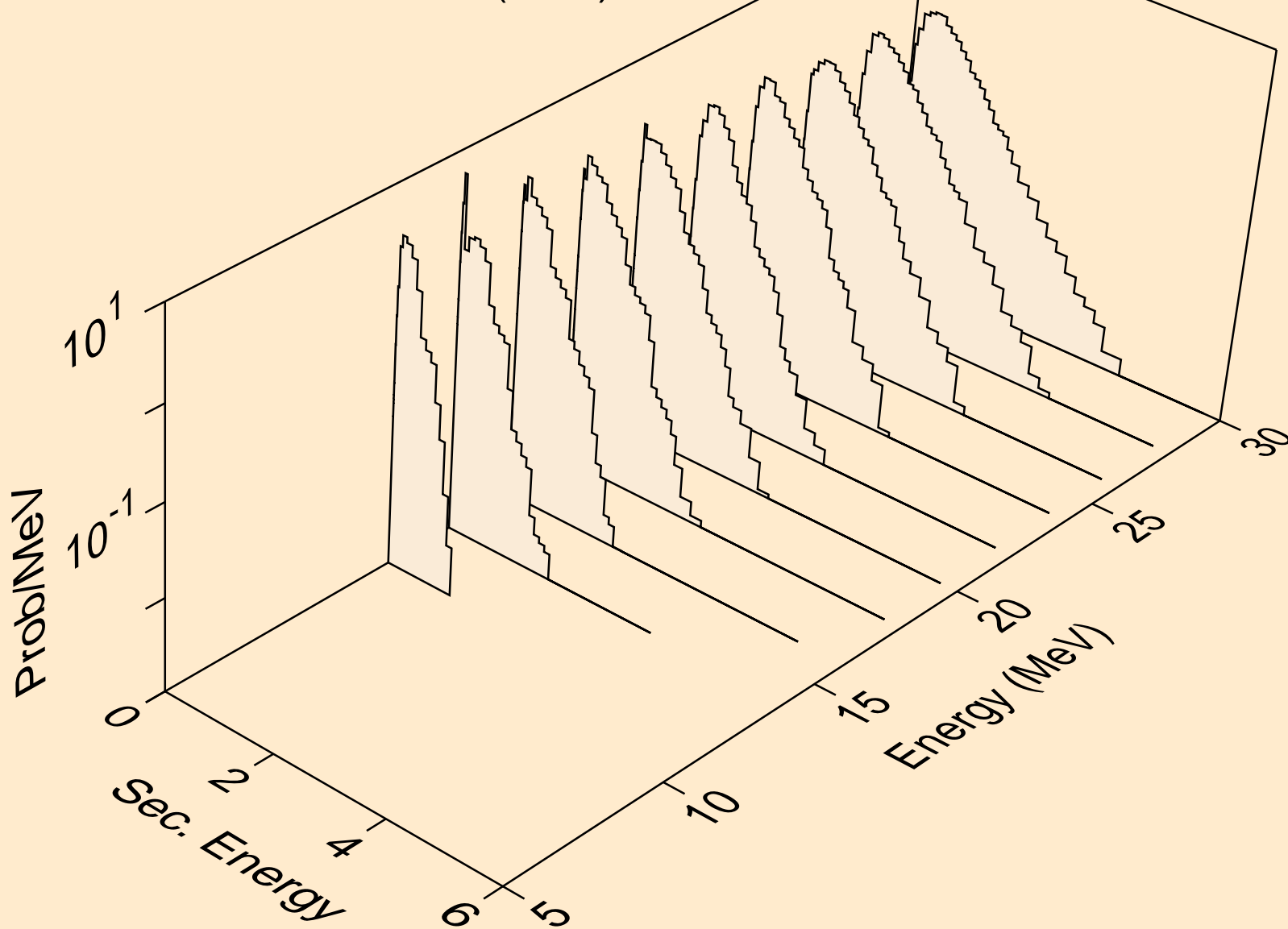




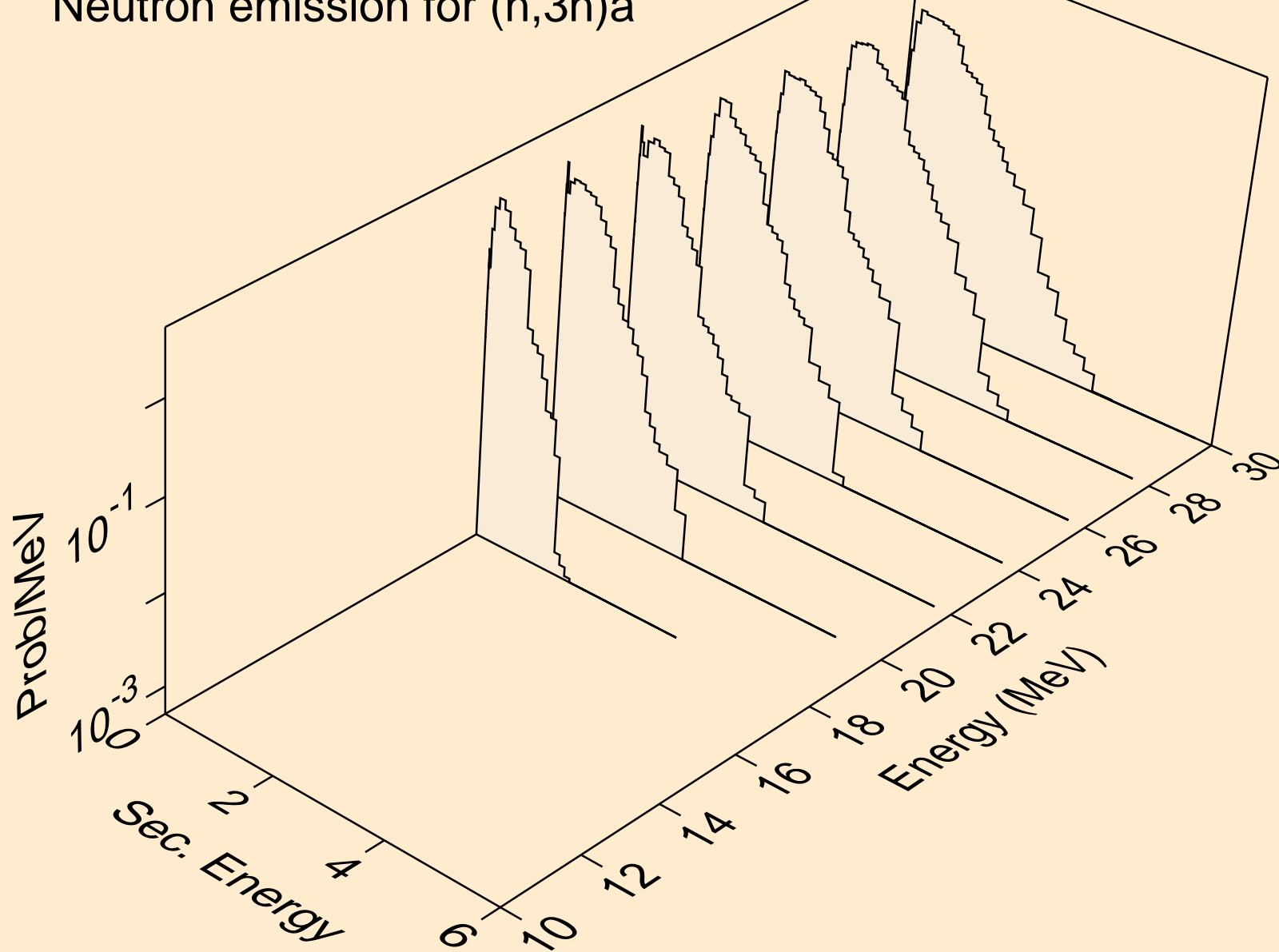
HF184 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,n\*)a



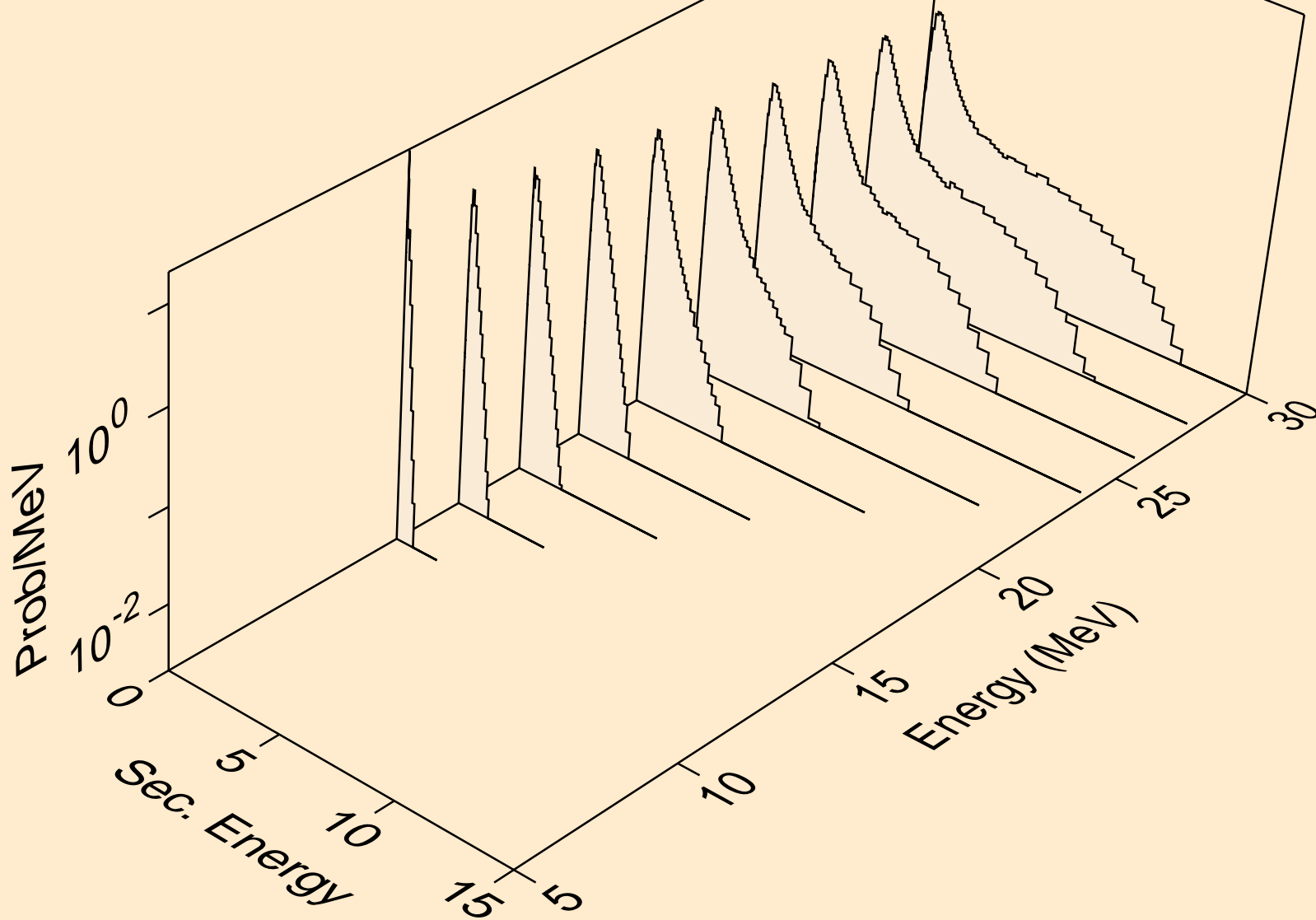
HF184 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,2n)a



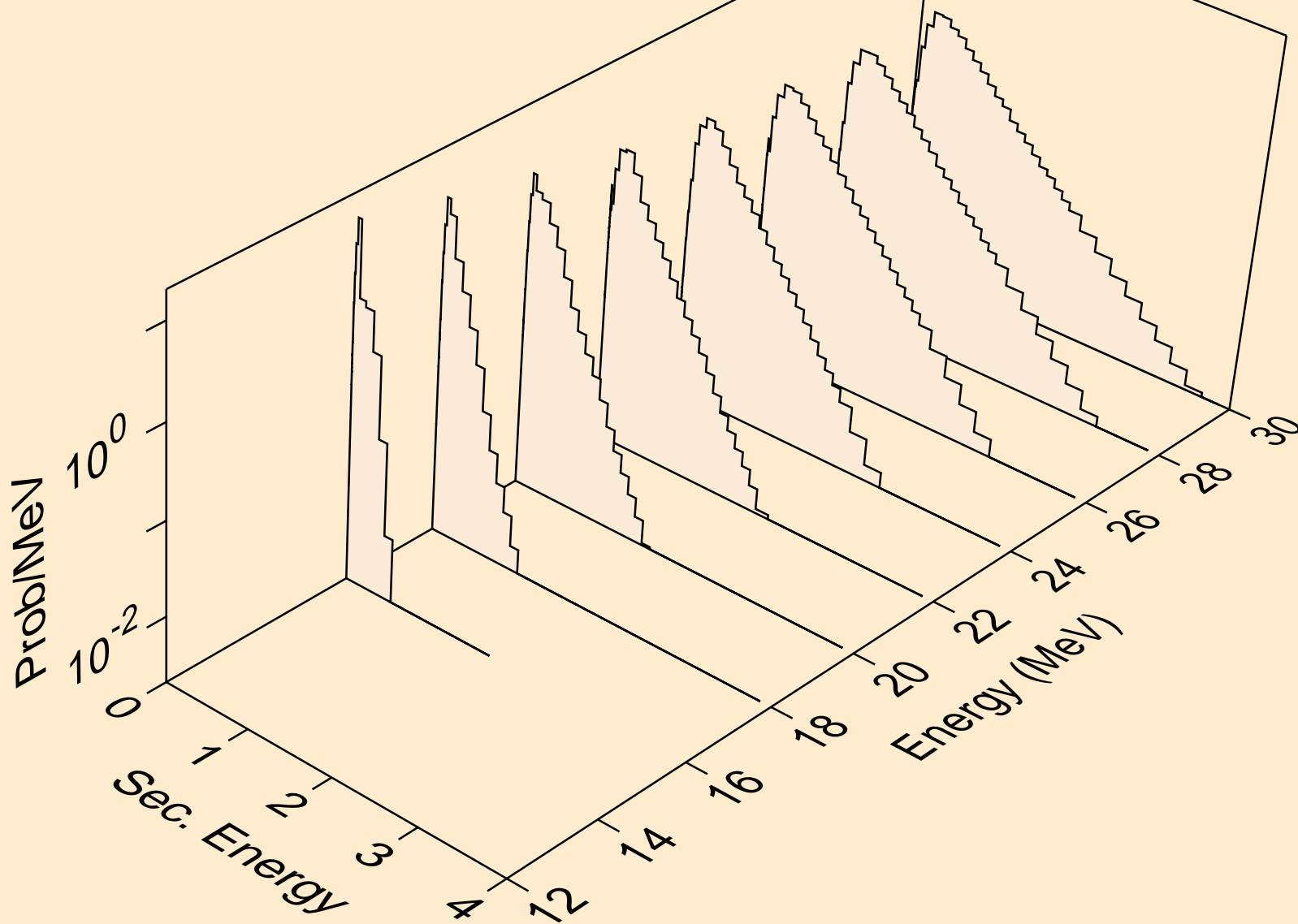
HF184 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,3n)a



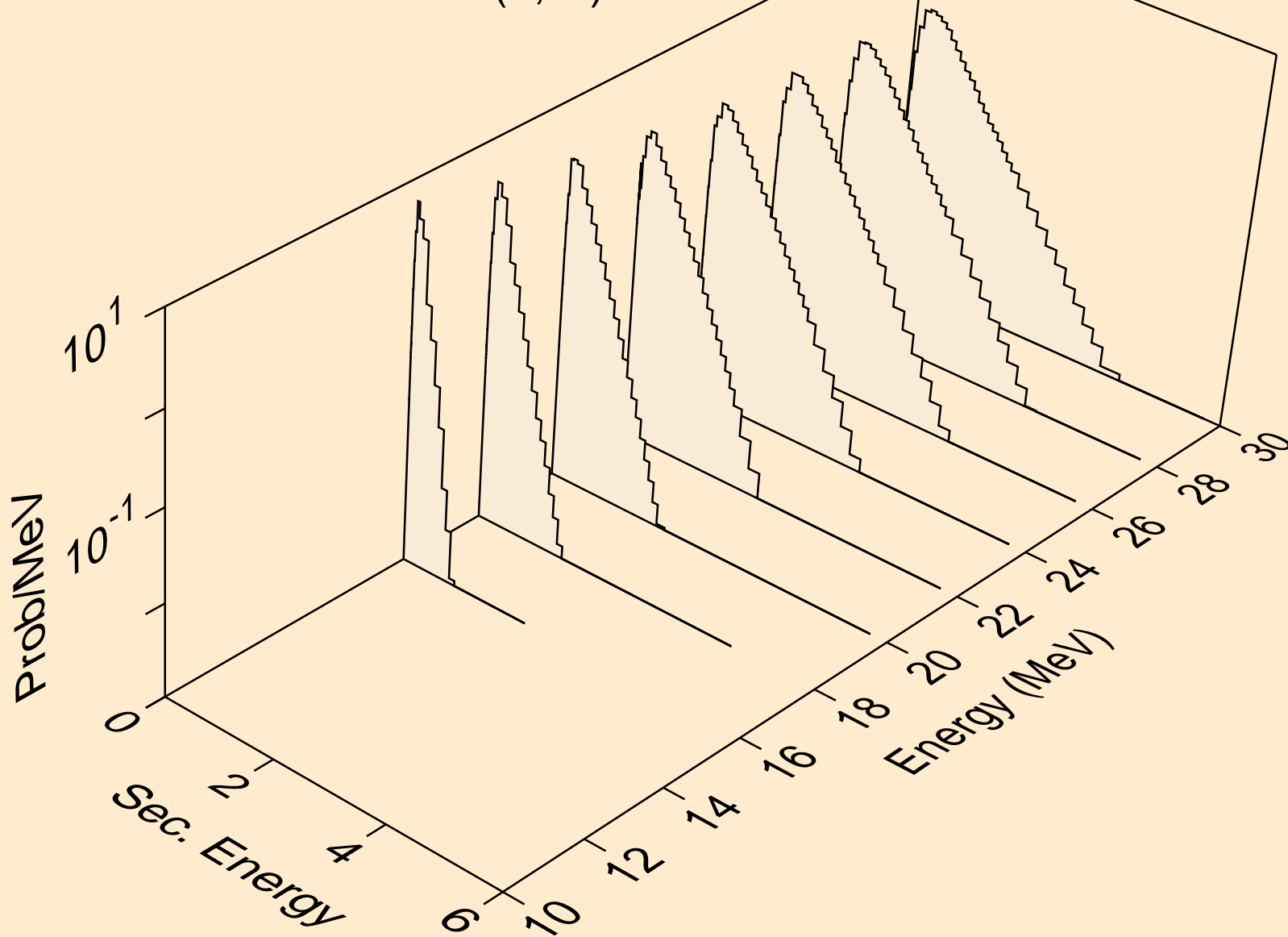
HF184 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,n\*)p



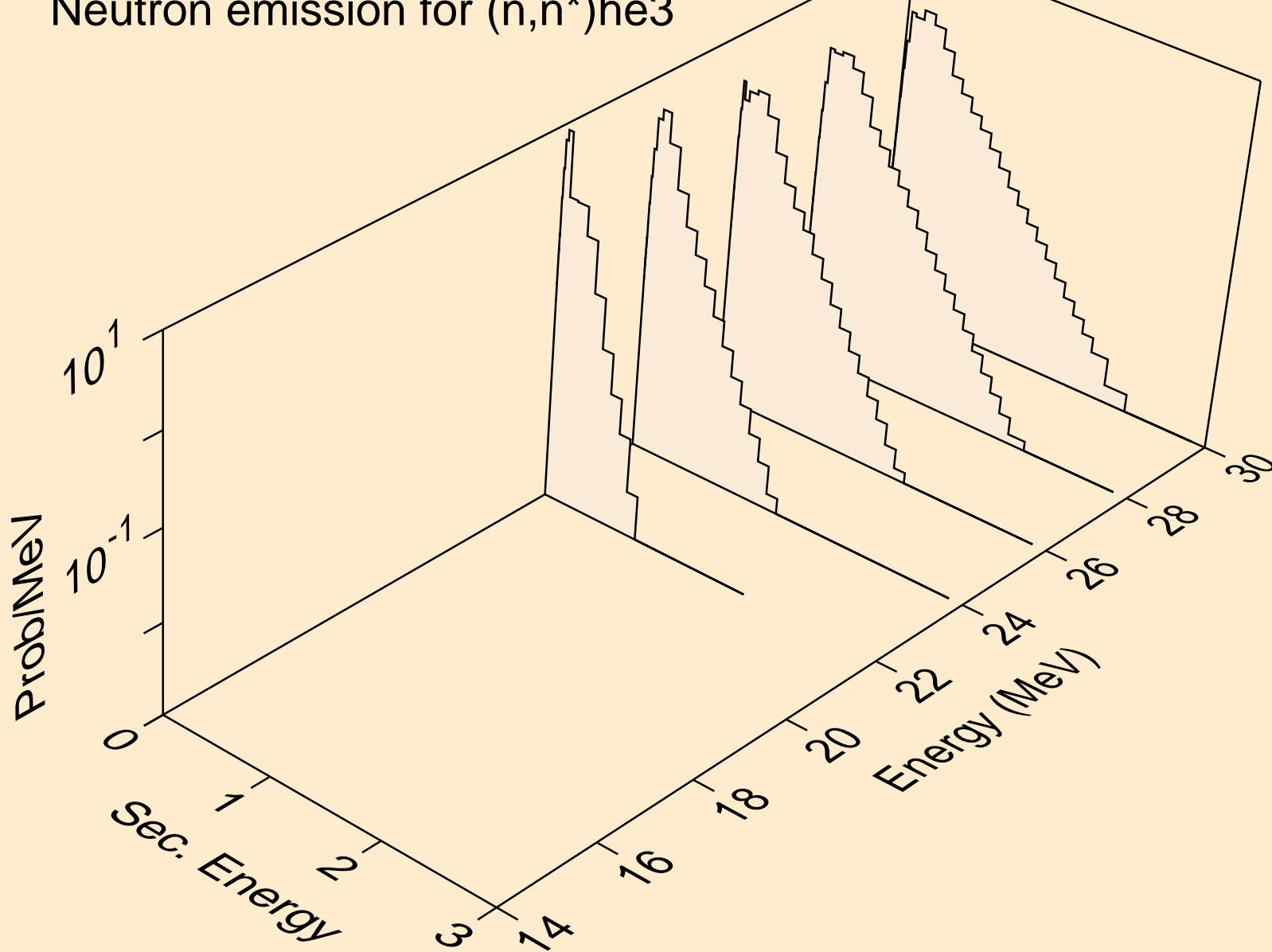
HF184 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,n\*)d



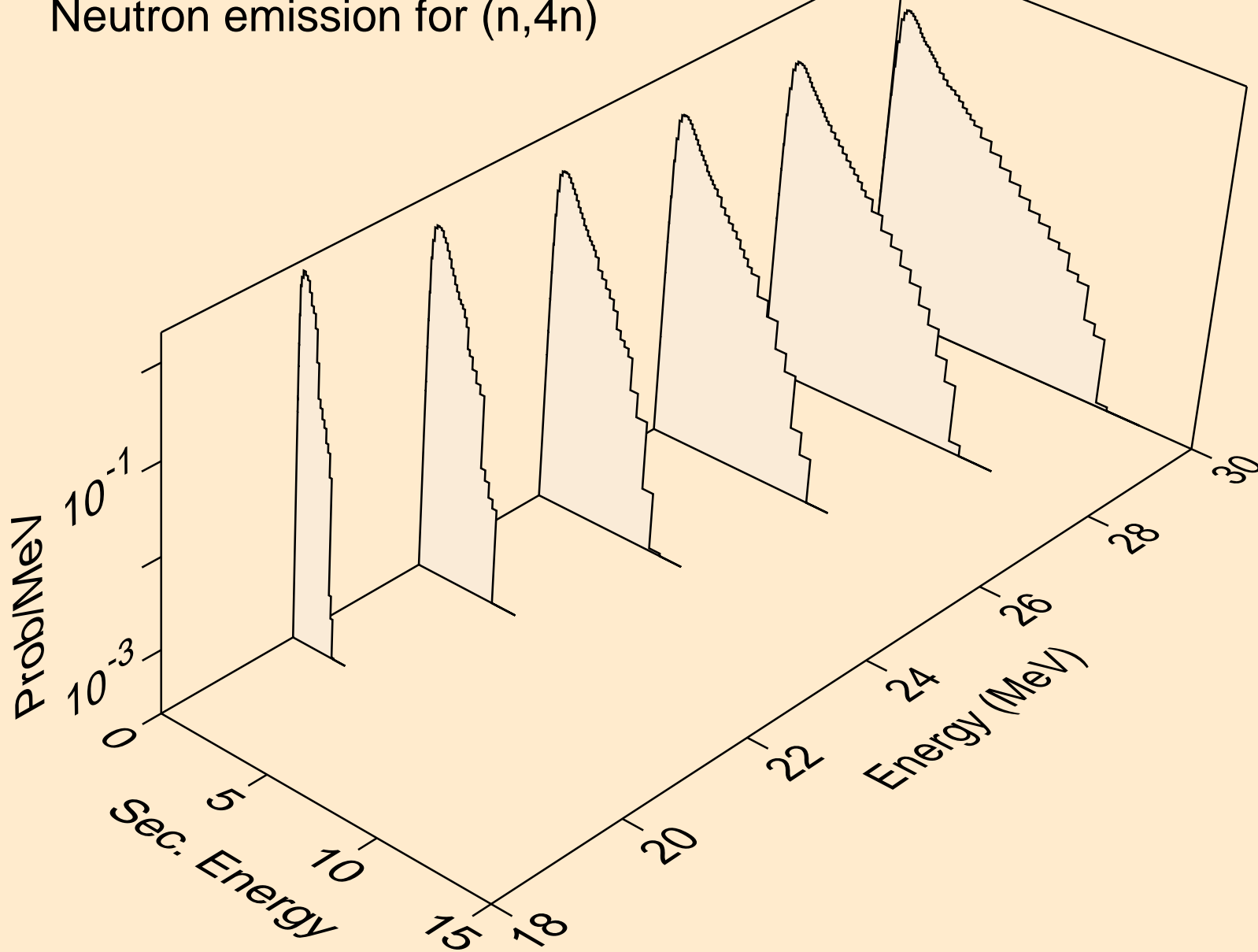
HF184 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,n\*)t



HF184 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,n\*)he3

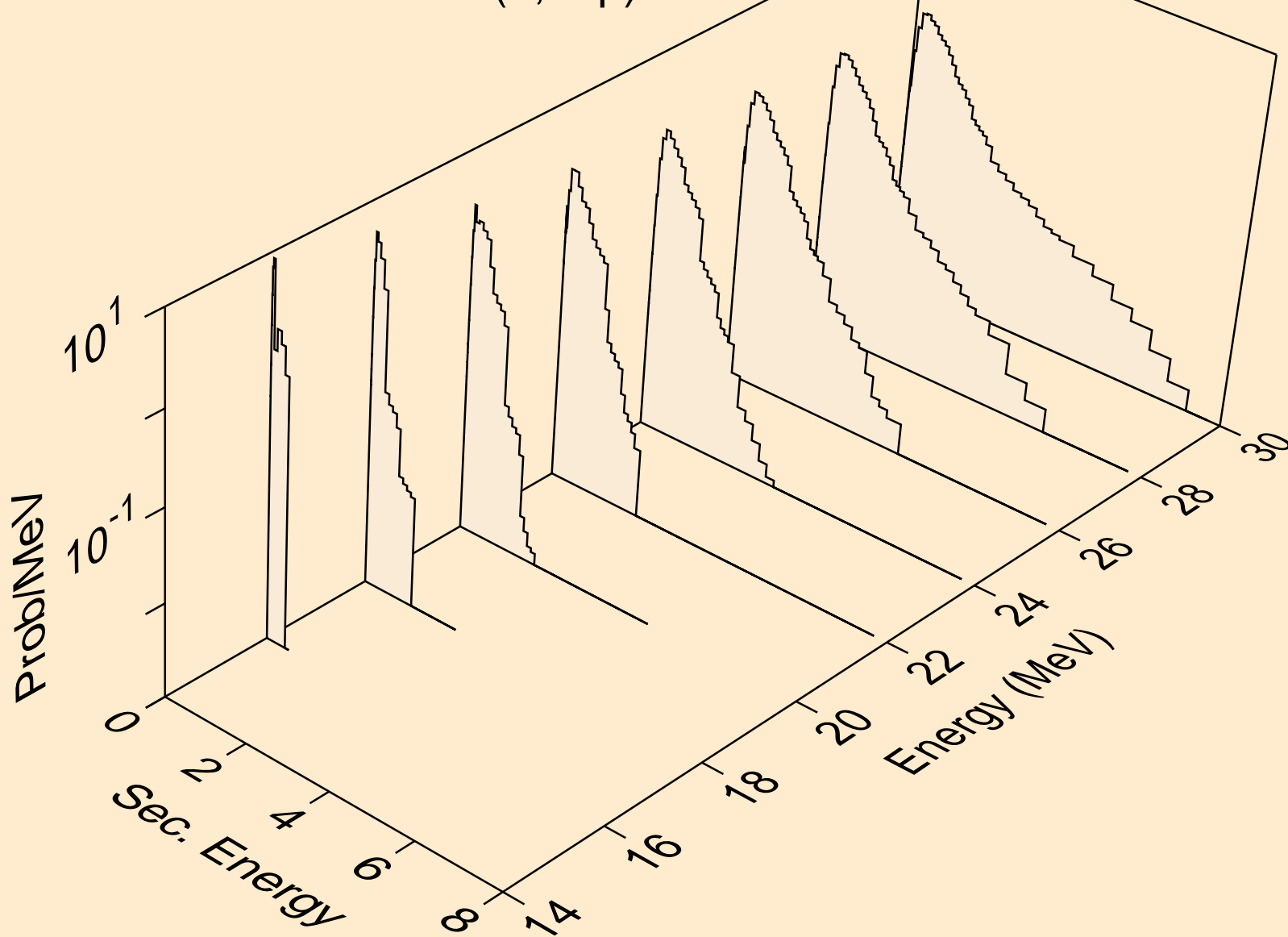


HF184 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,4n)

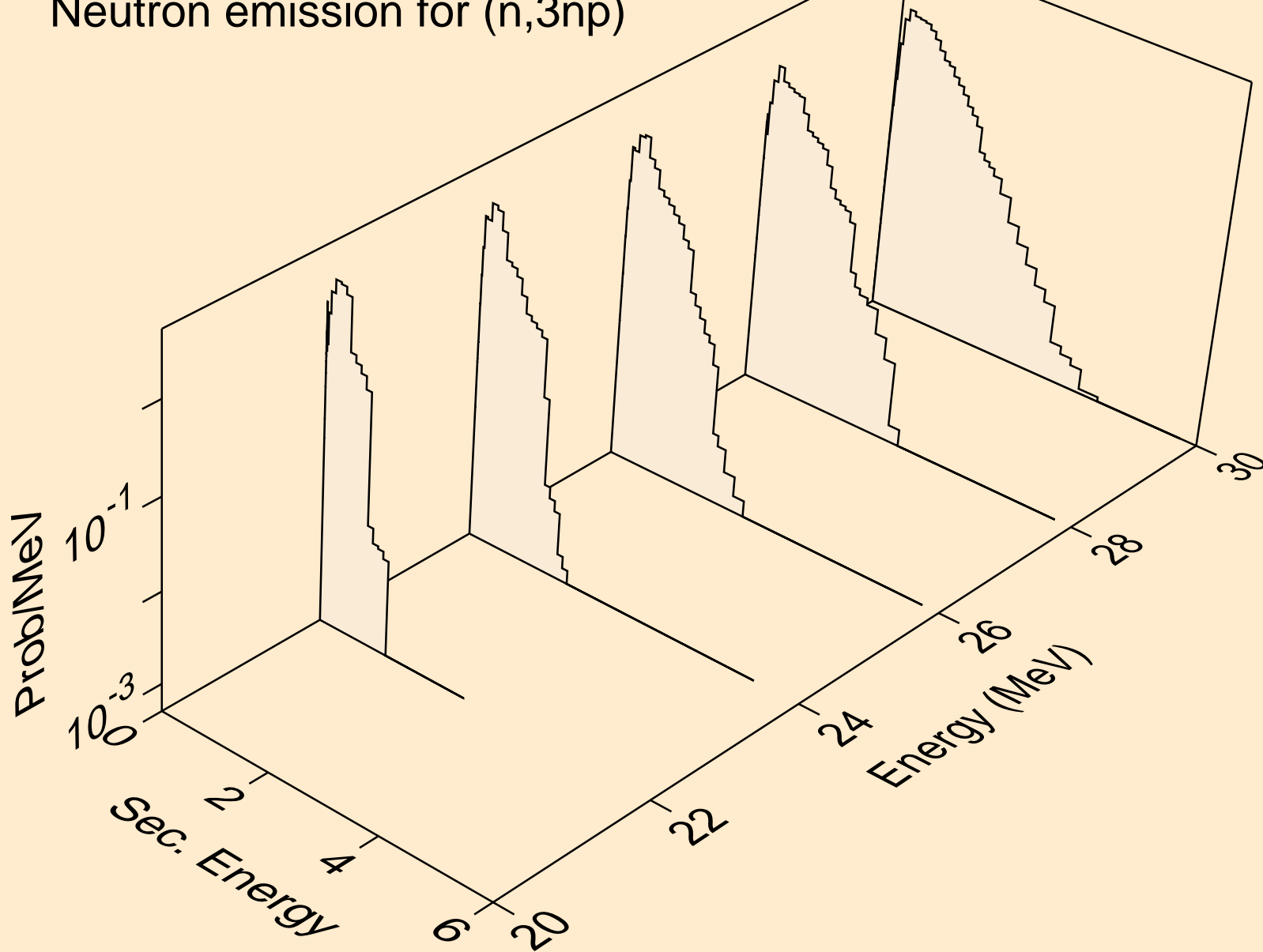




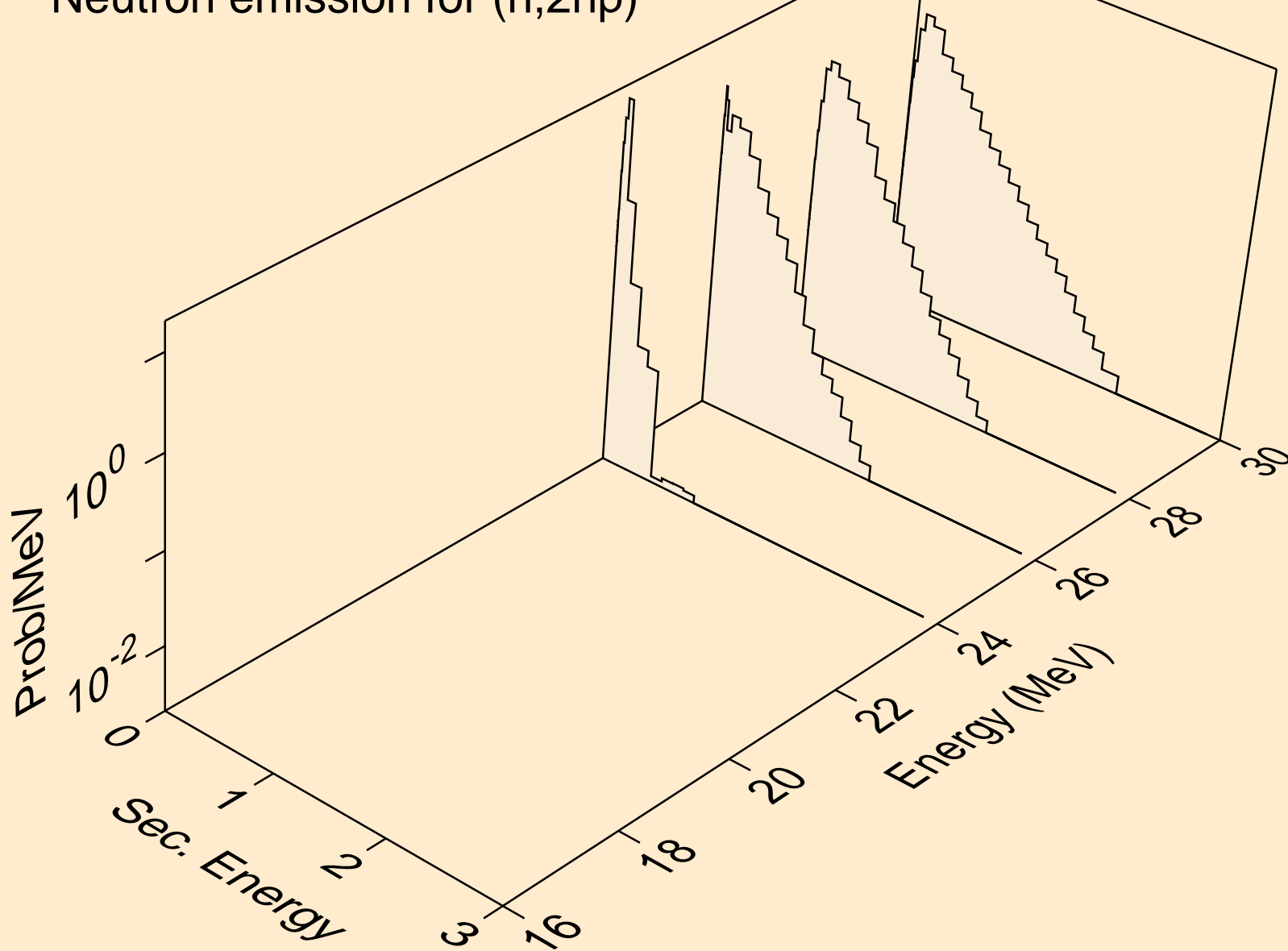
HF184 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,2np)



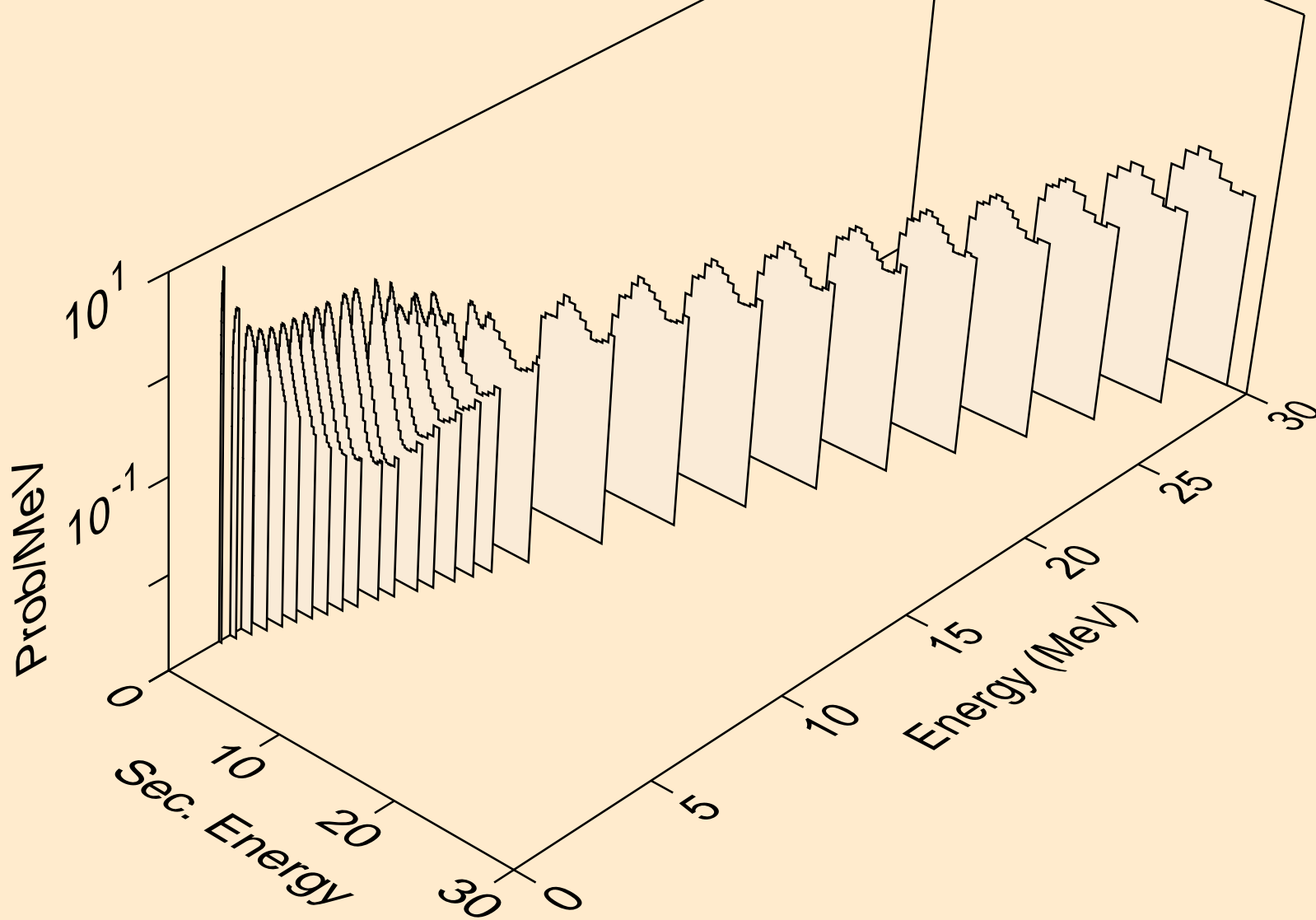
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Neutron emission for (n,3np)



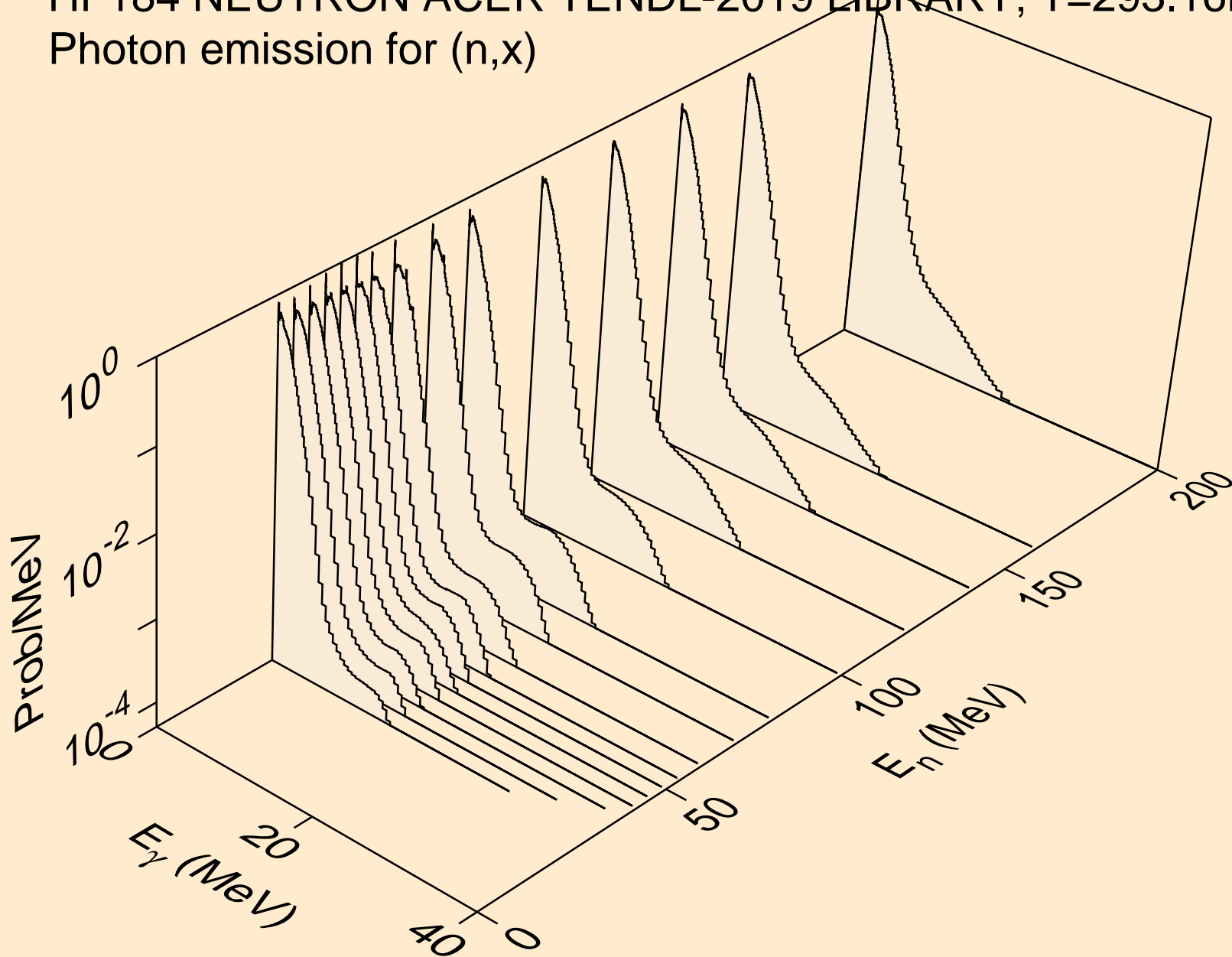
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Neutron emission for (n,2np)



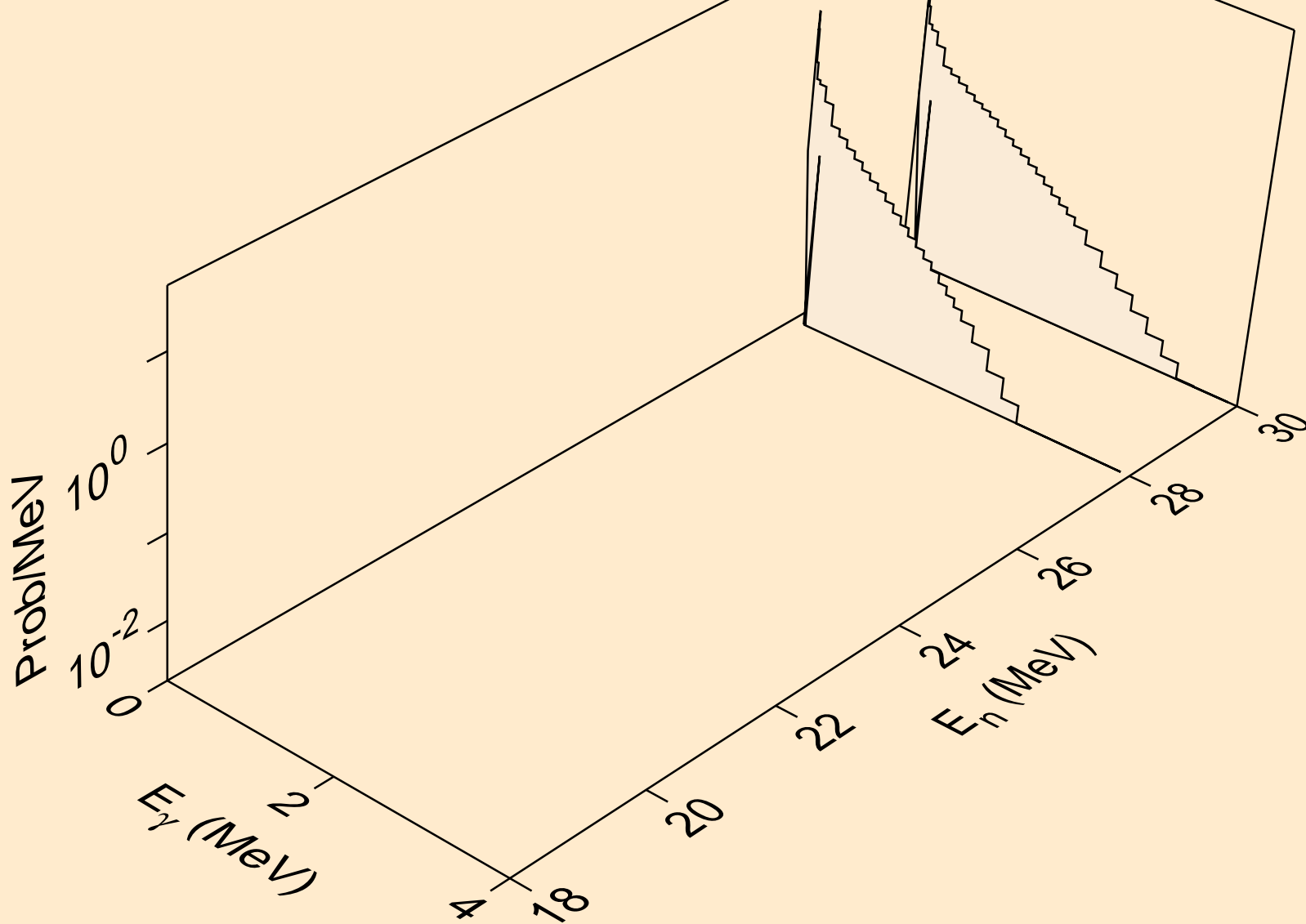
HF184 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,n\*c)



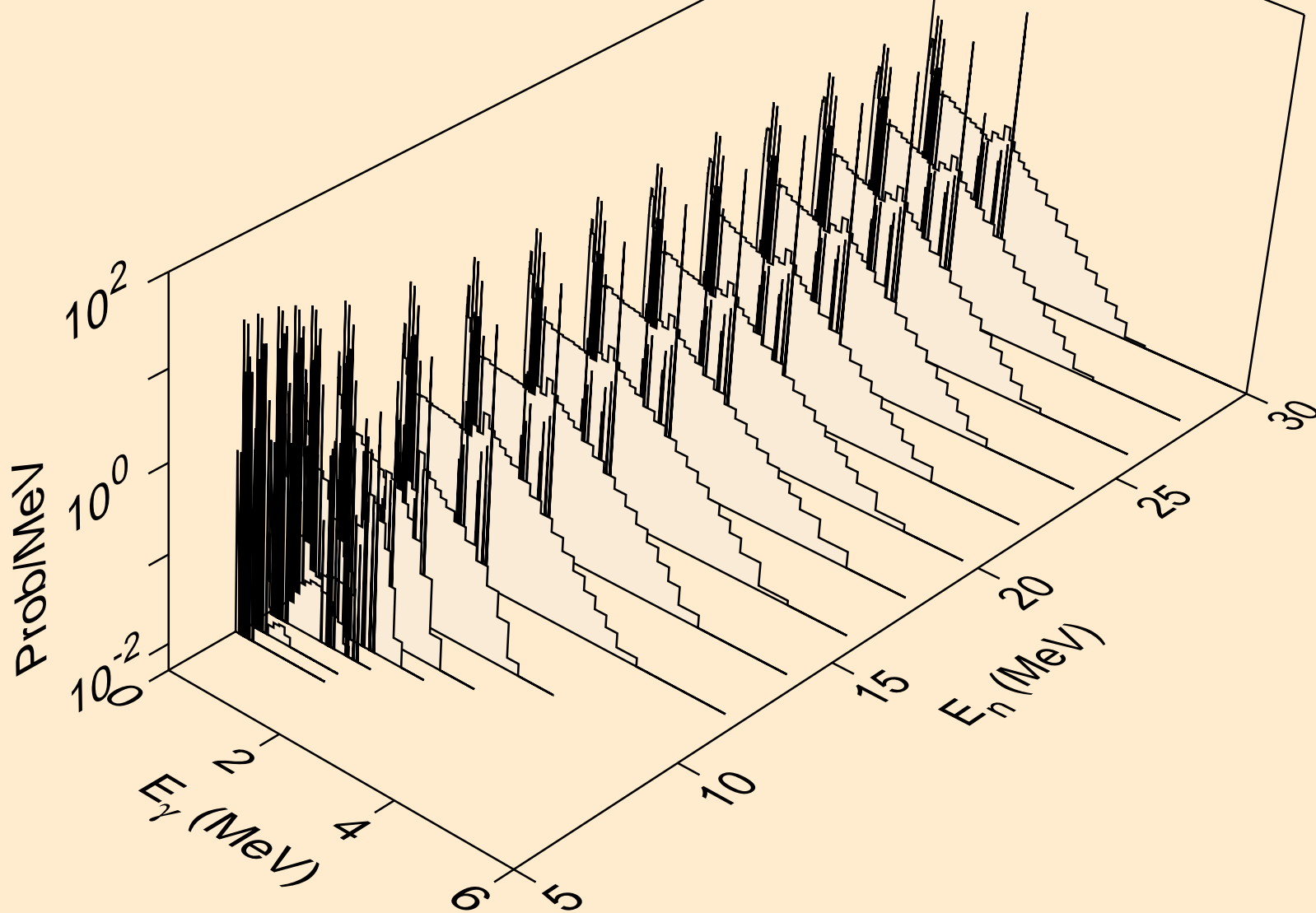
HF184 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,x)



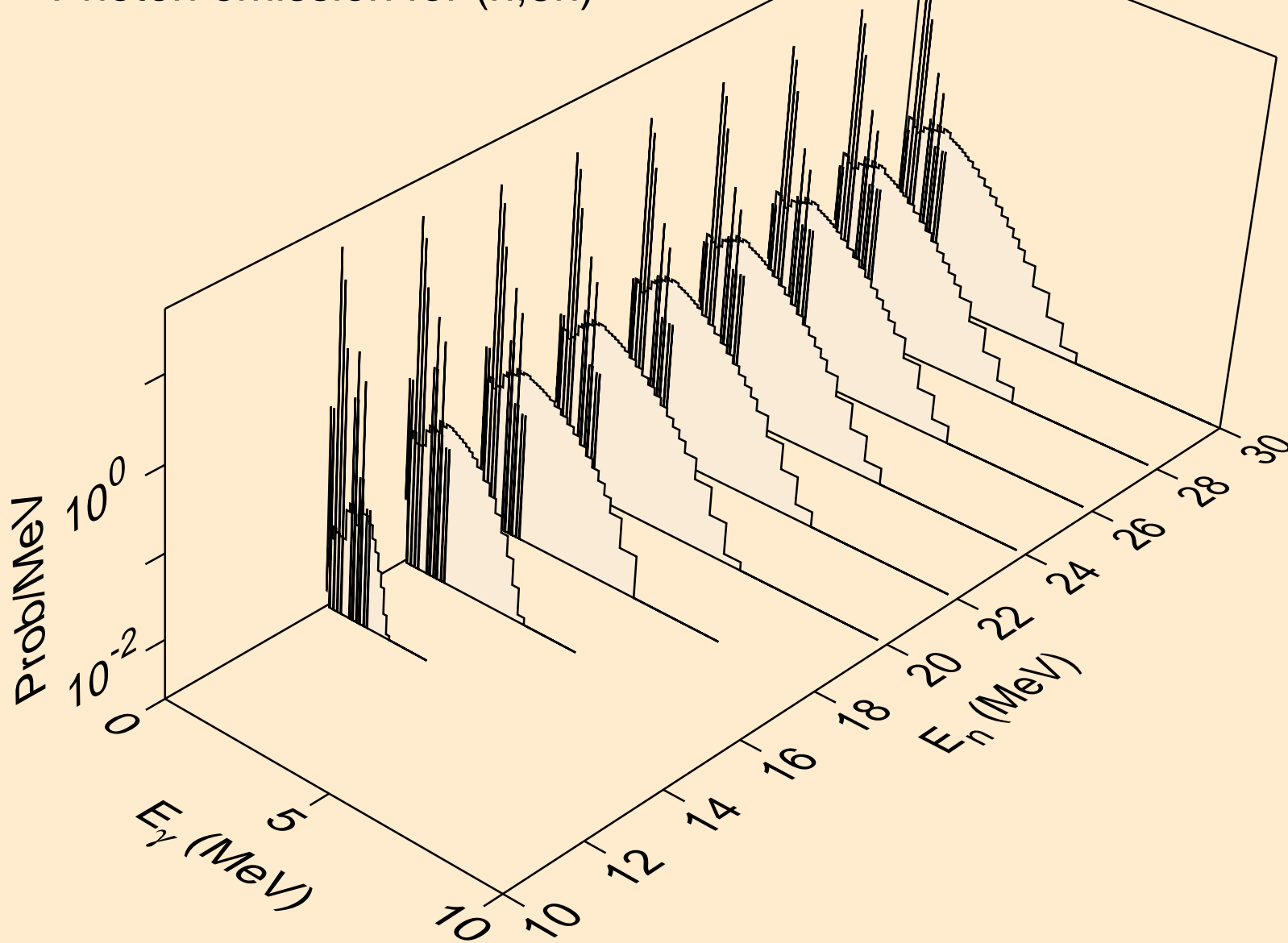
HF184 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,2nd)



HF184 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,2n)

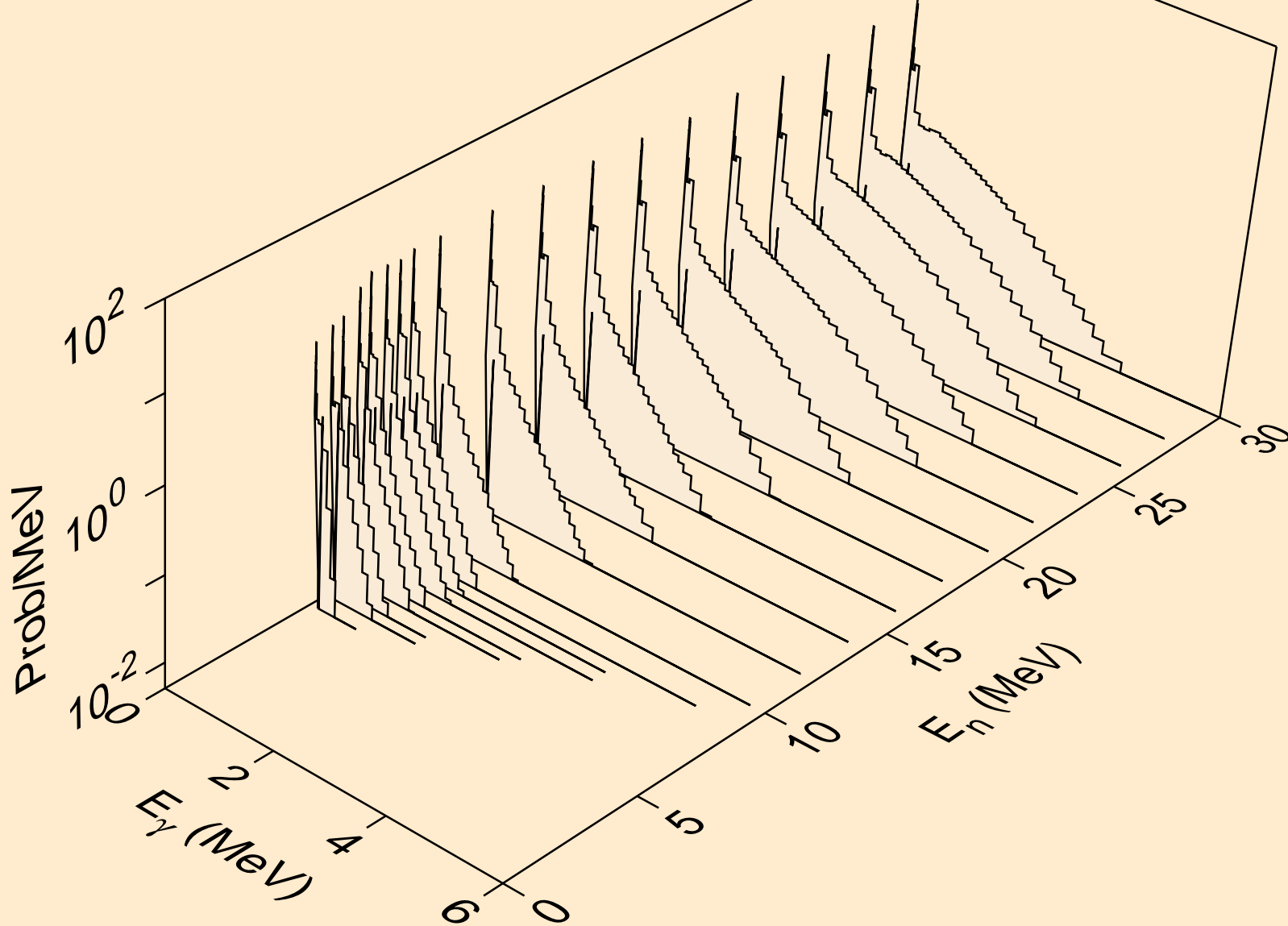


HF184 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,3n)

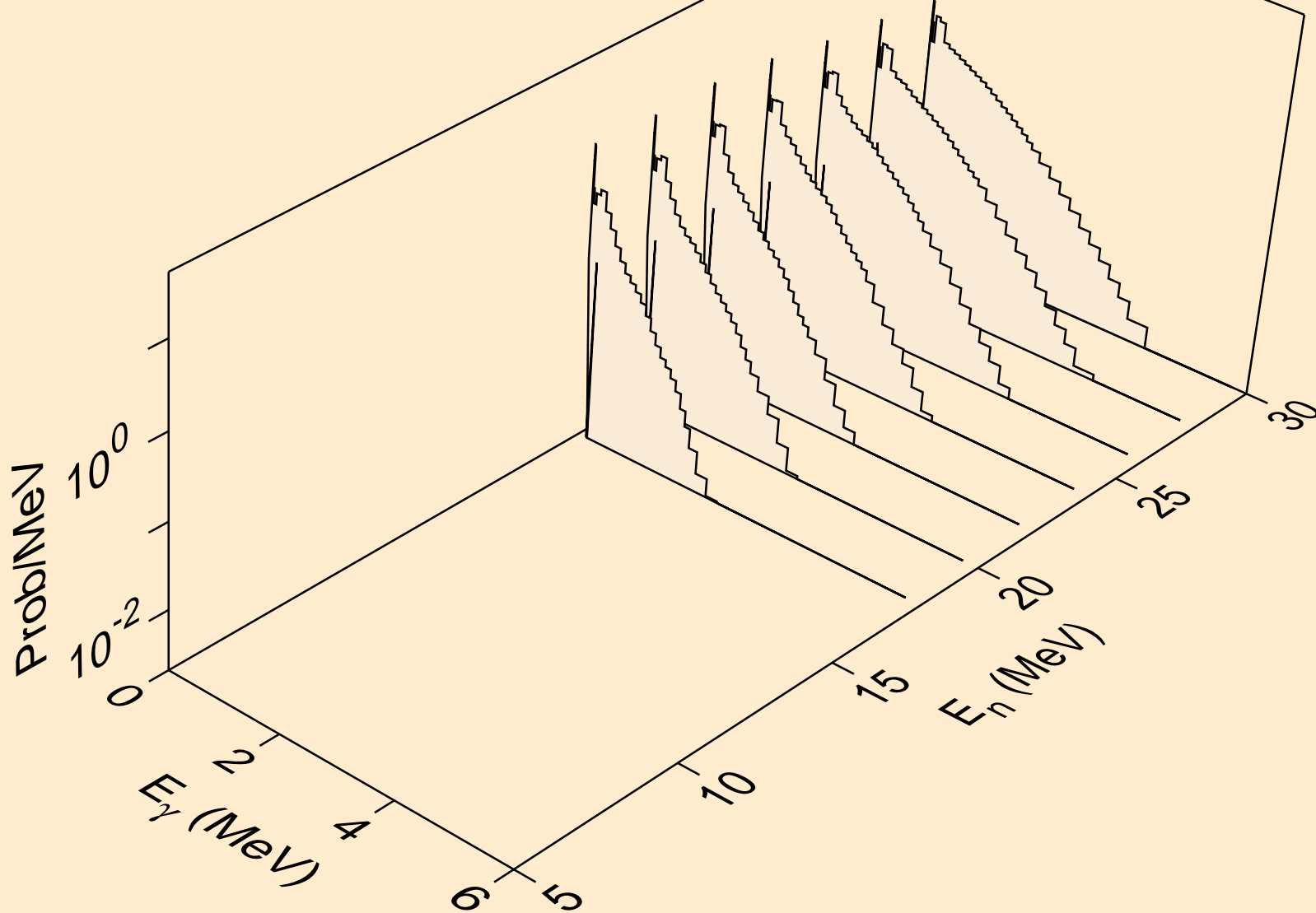




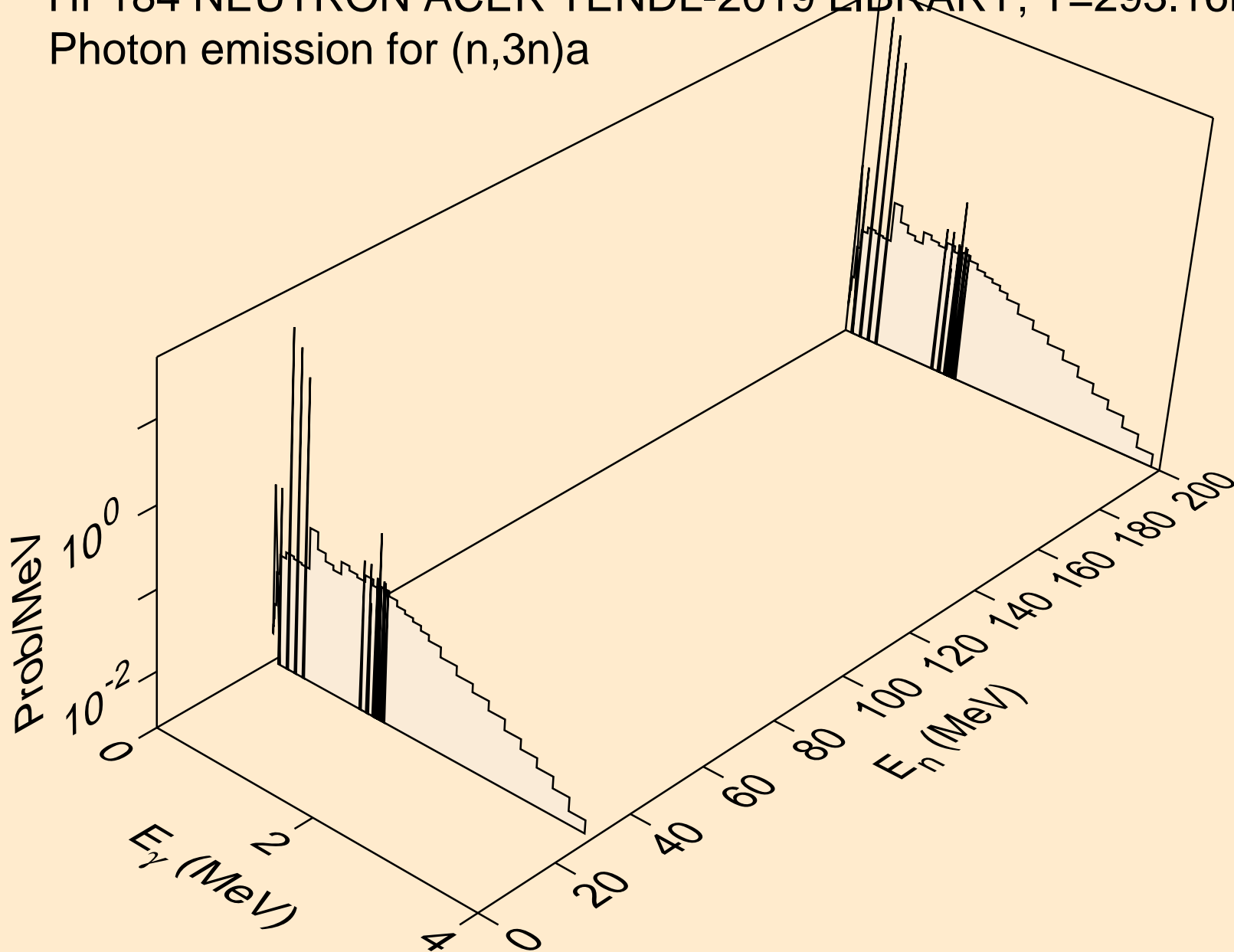
HF184 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,n\*)a



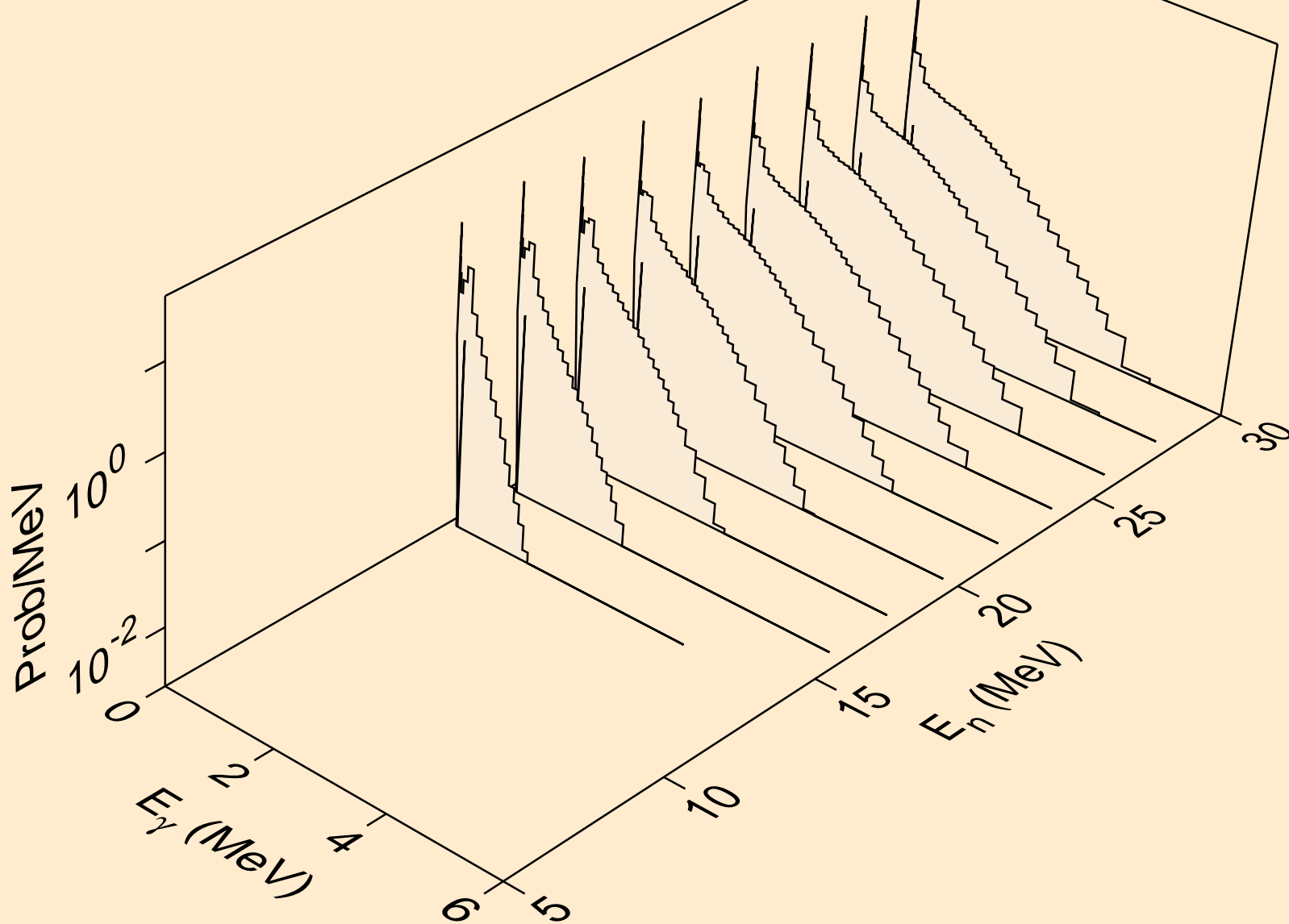
HF184 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,2n)a



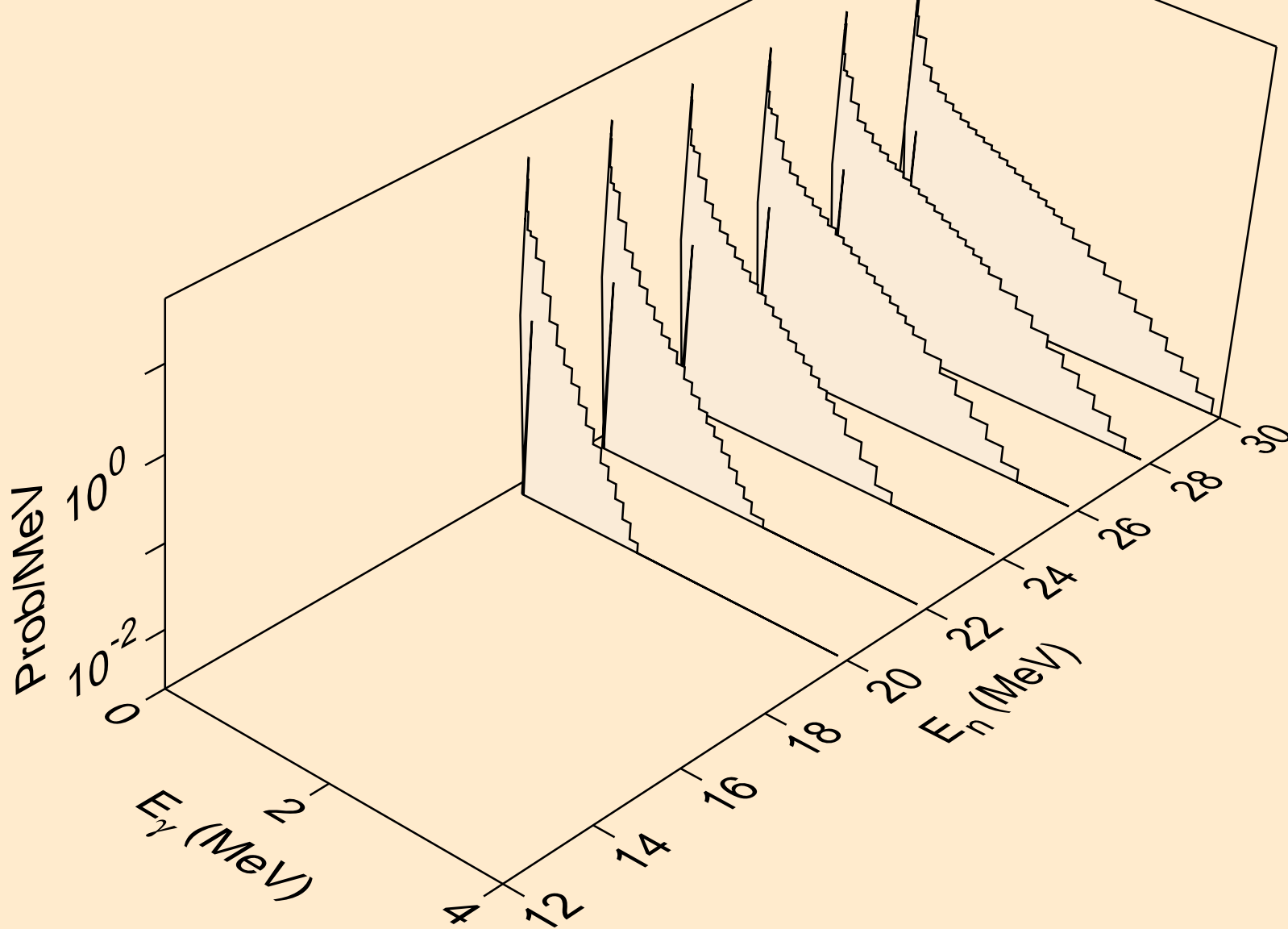
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Photon emission for (n,3n)a



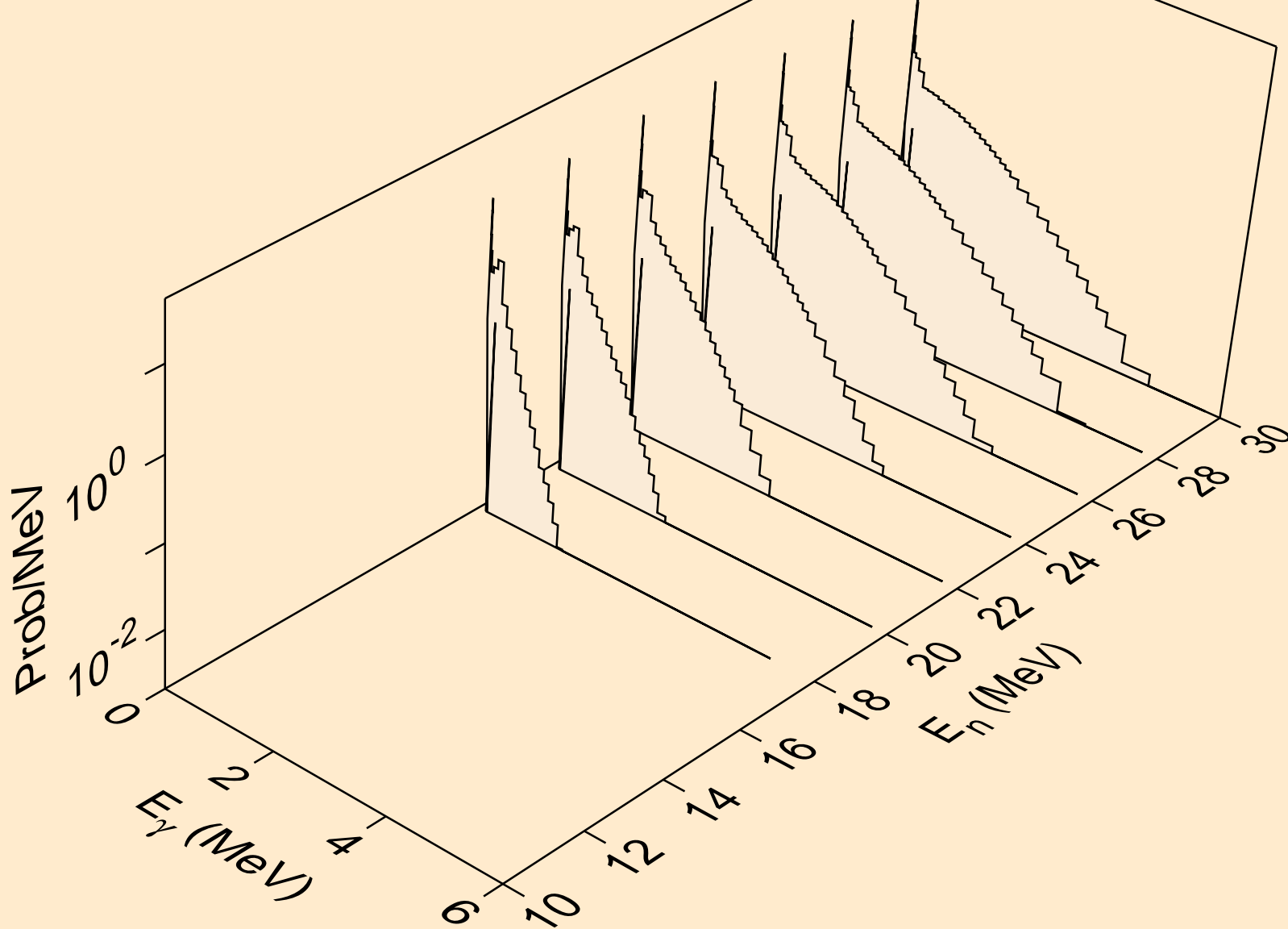
HF184 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,n\*)p



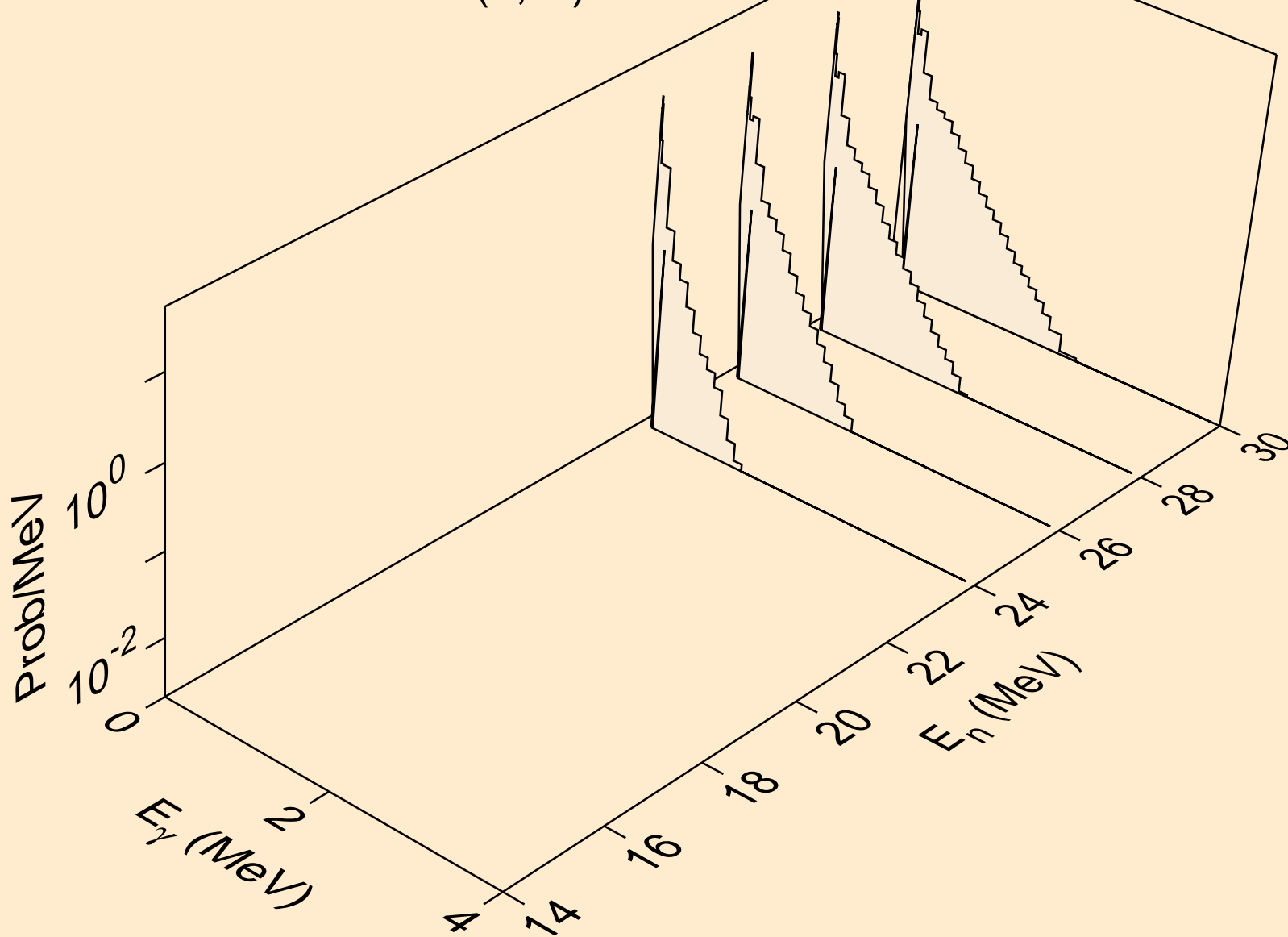
HF184 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,n\*)d



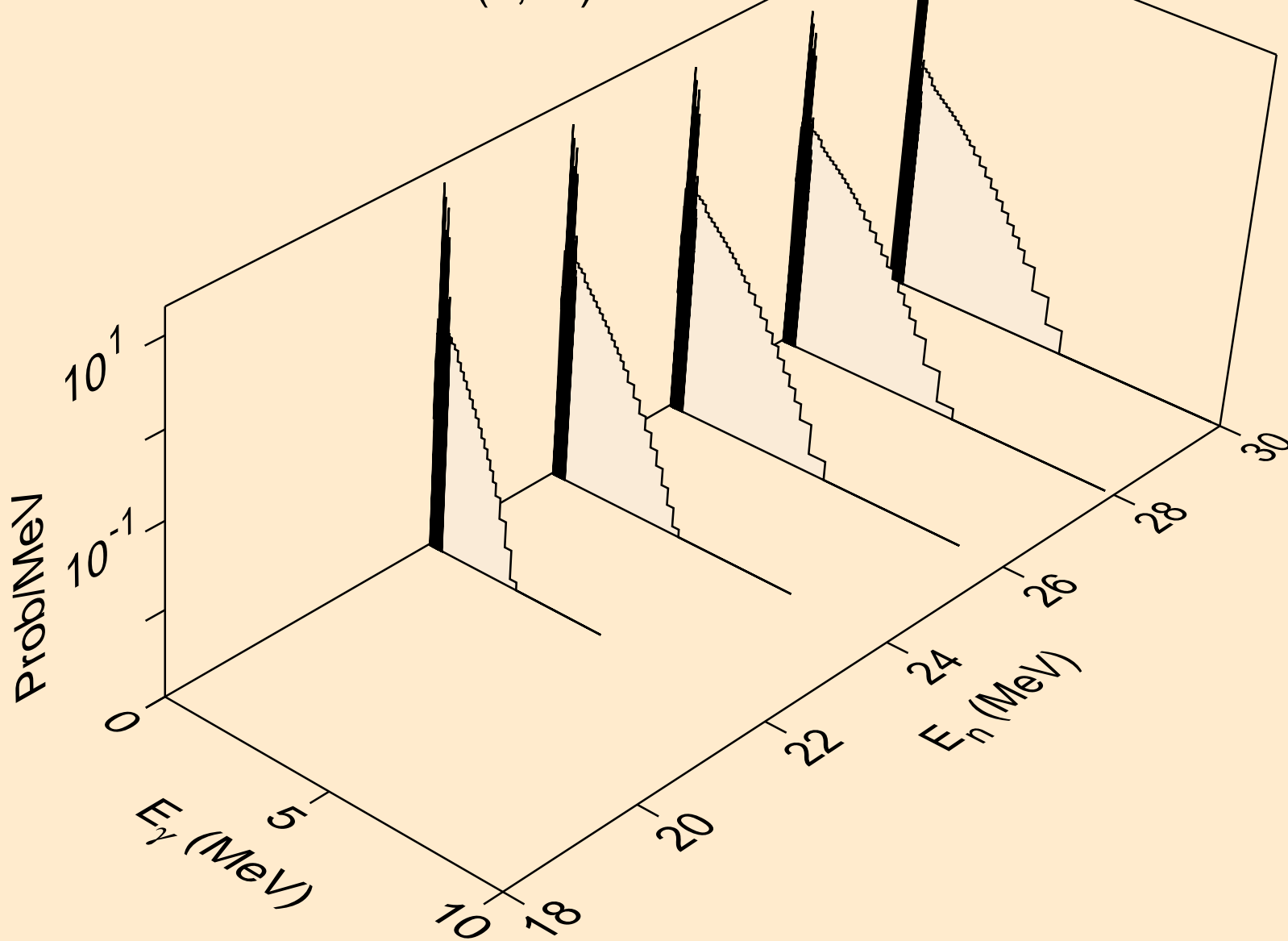
HF184 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,n\*)t



HF184 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,n\*)he3

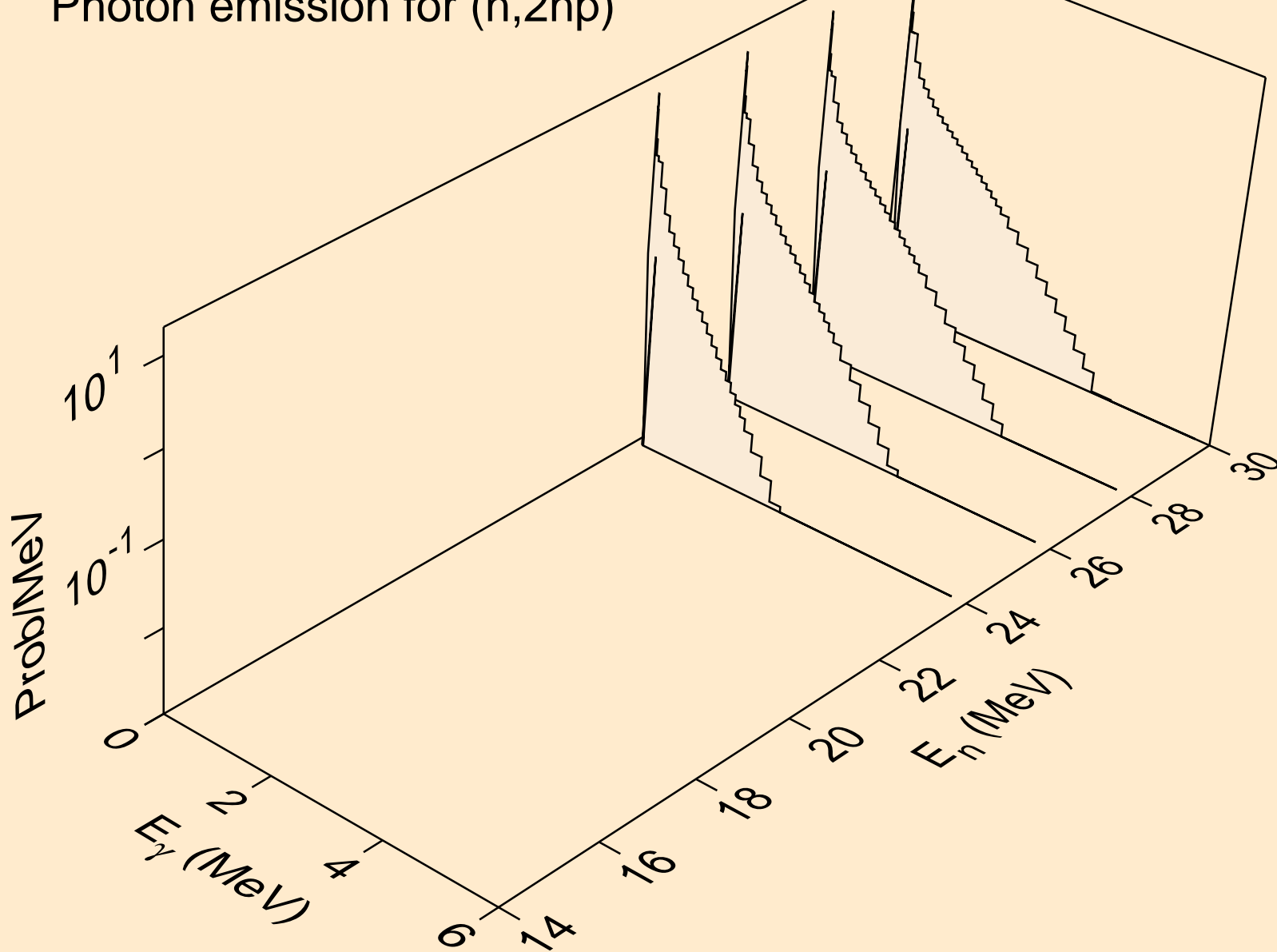


HF184 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,4n)

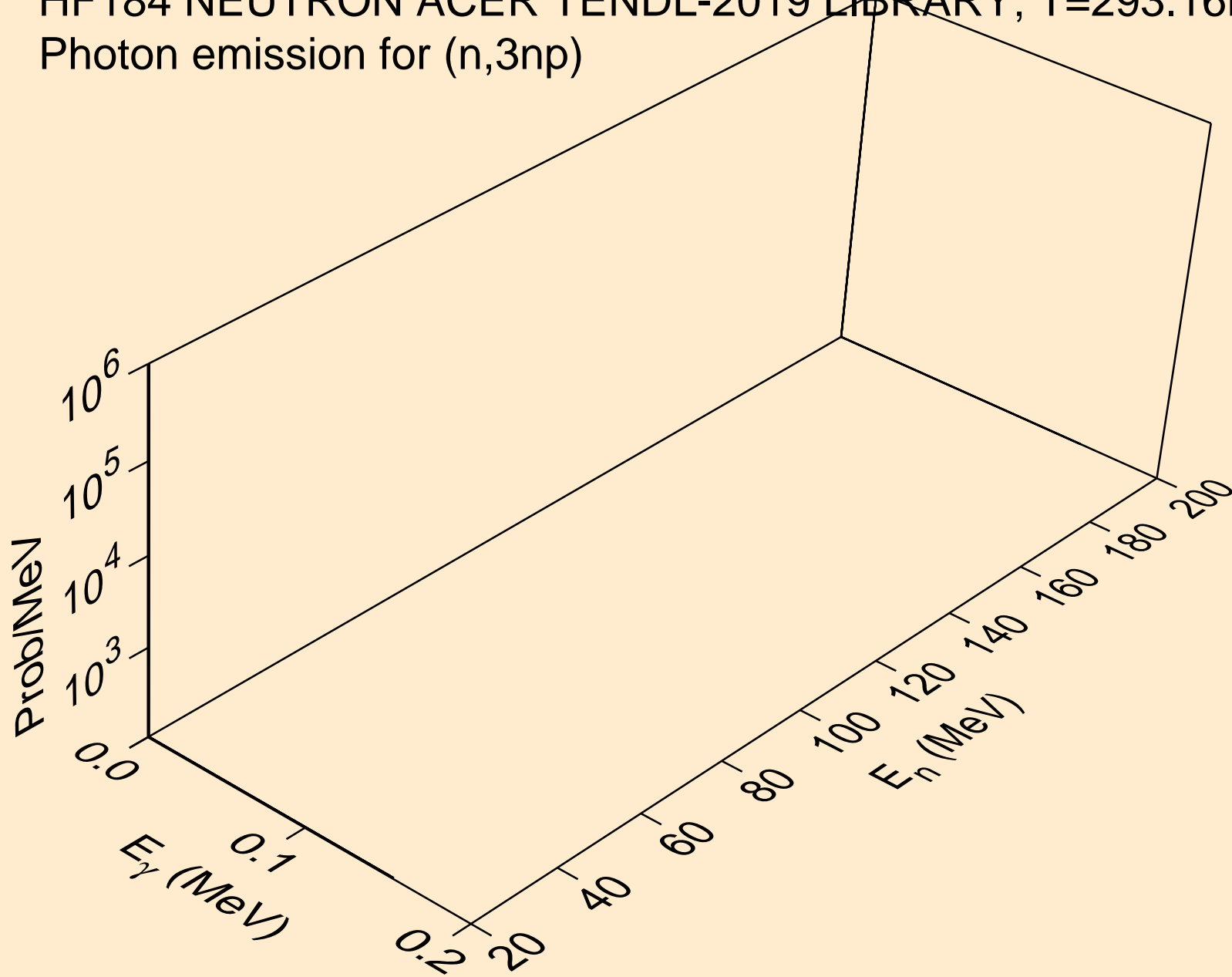




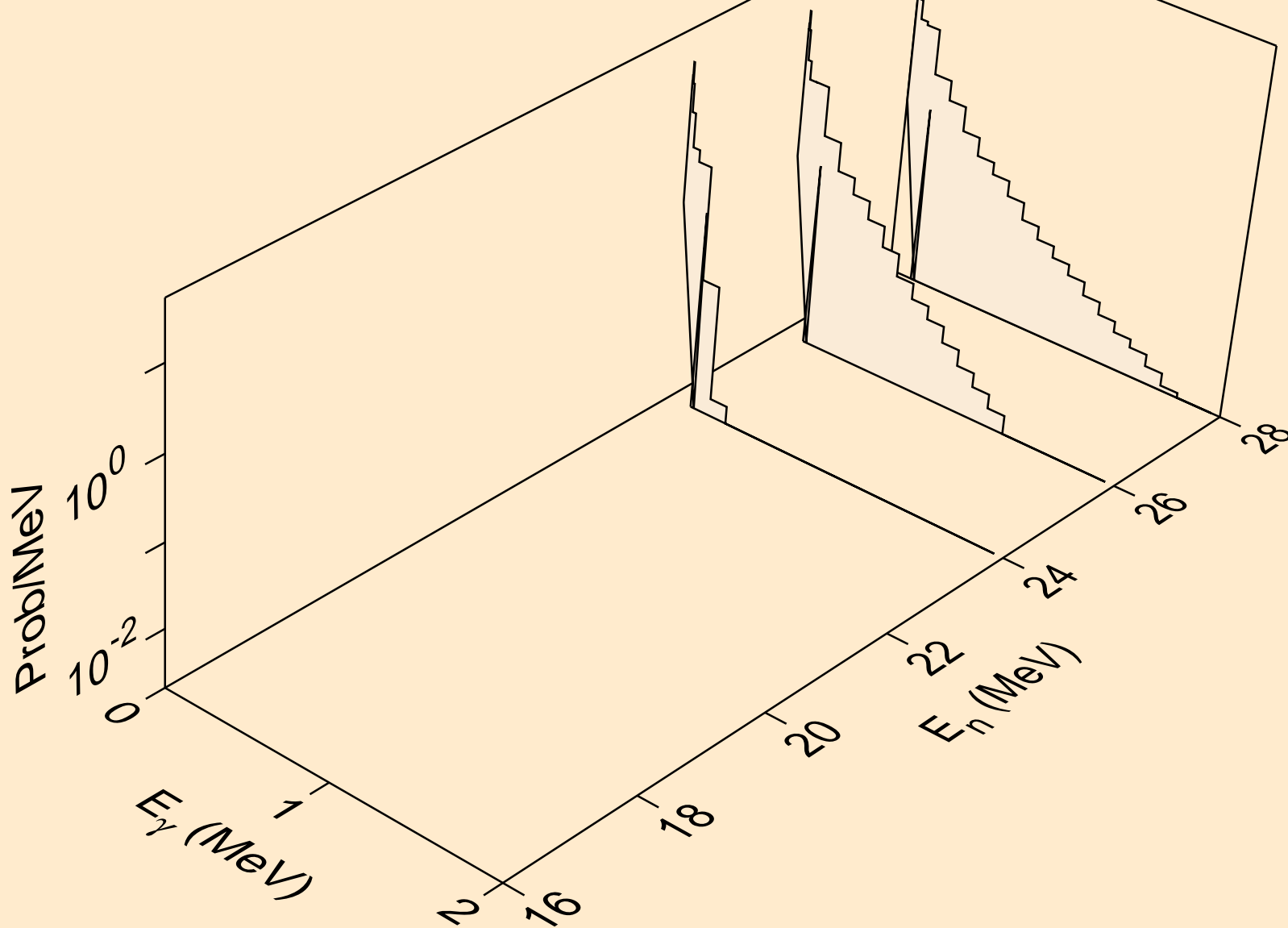
HF184 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,2np)



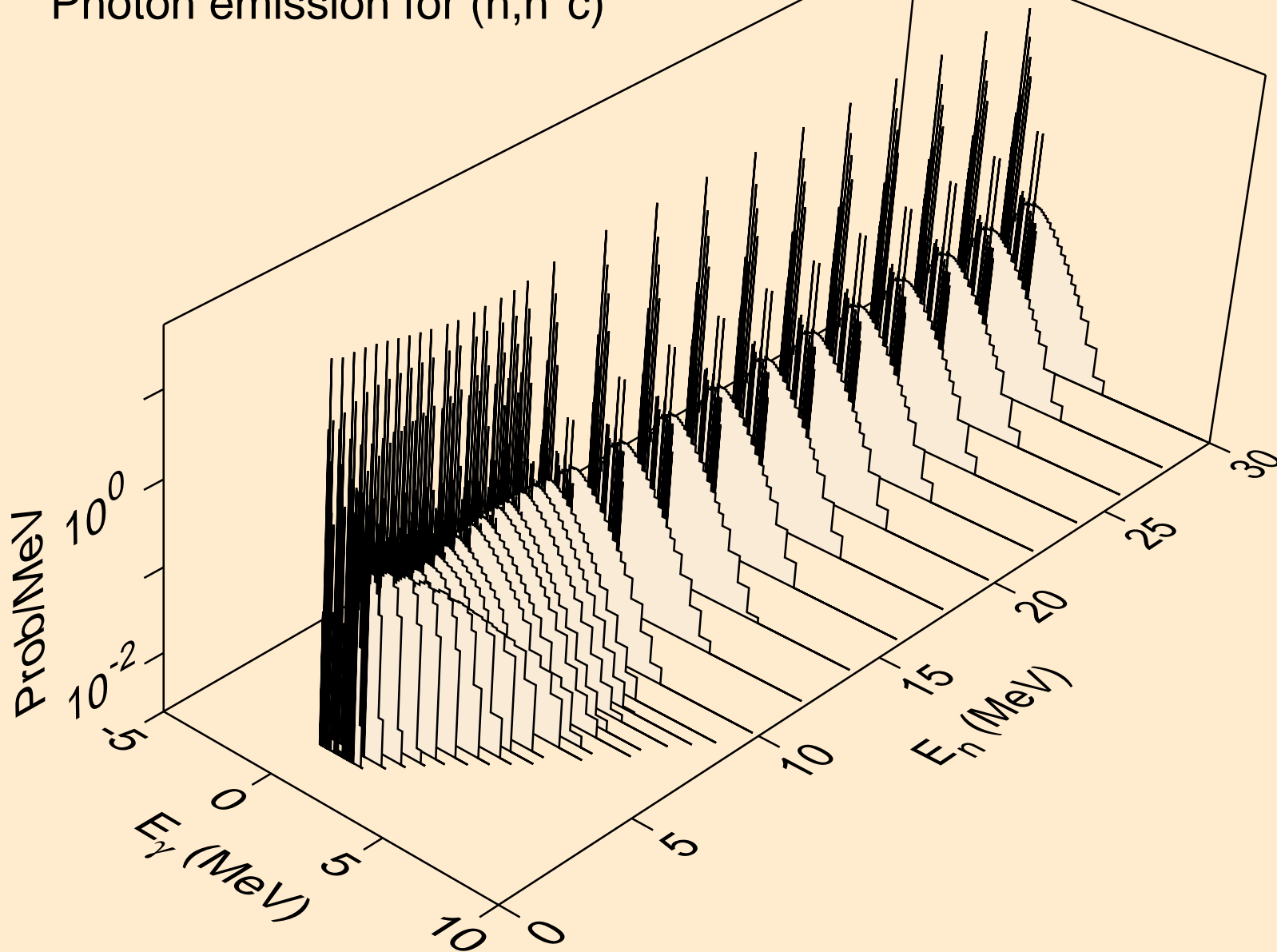
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Photon emission for (n,3np)



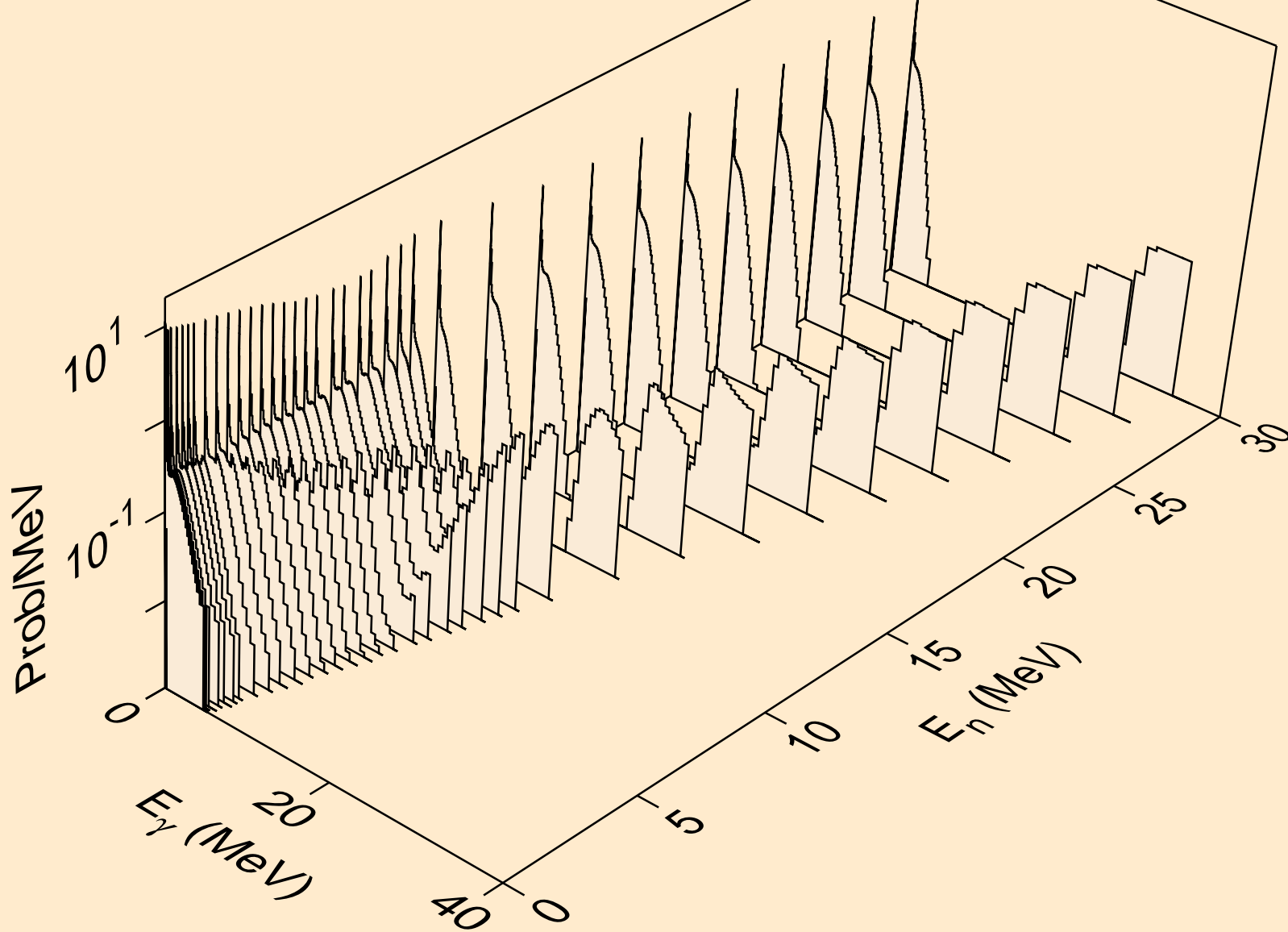
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Photon emission for (n,2np)



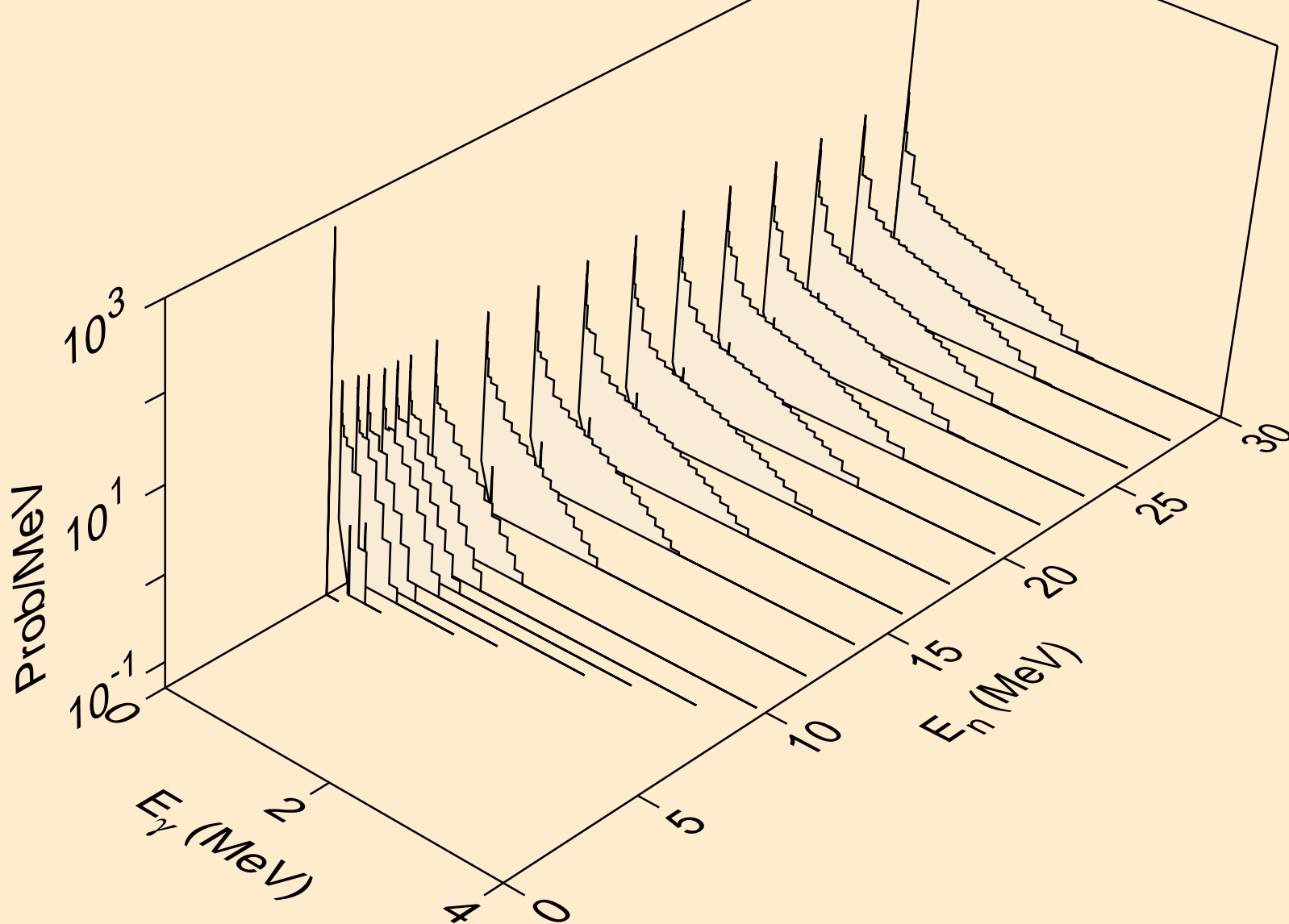
HF184 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,n\*c)



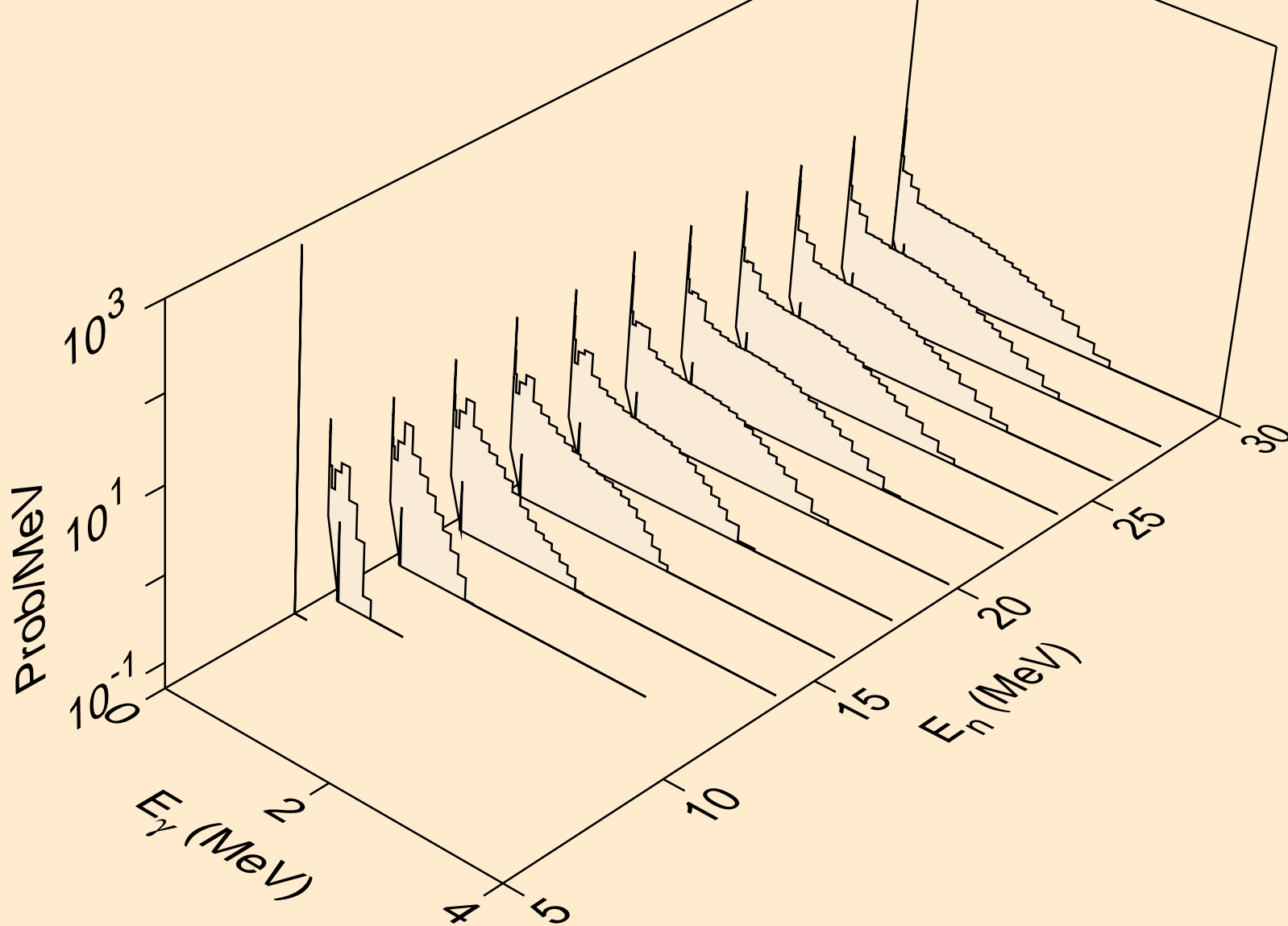
HF184 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,gma)



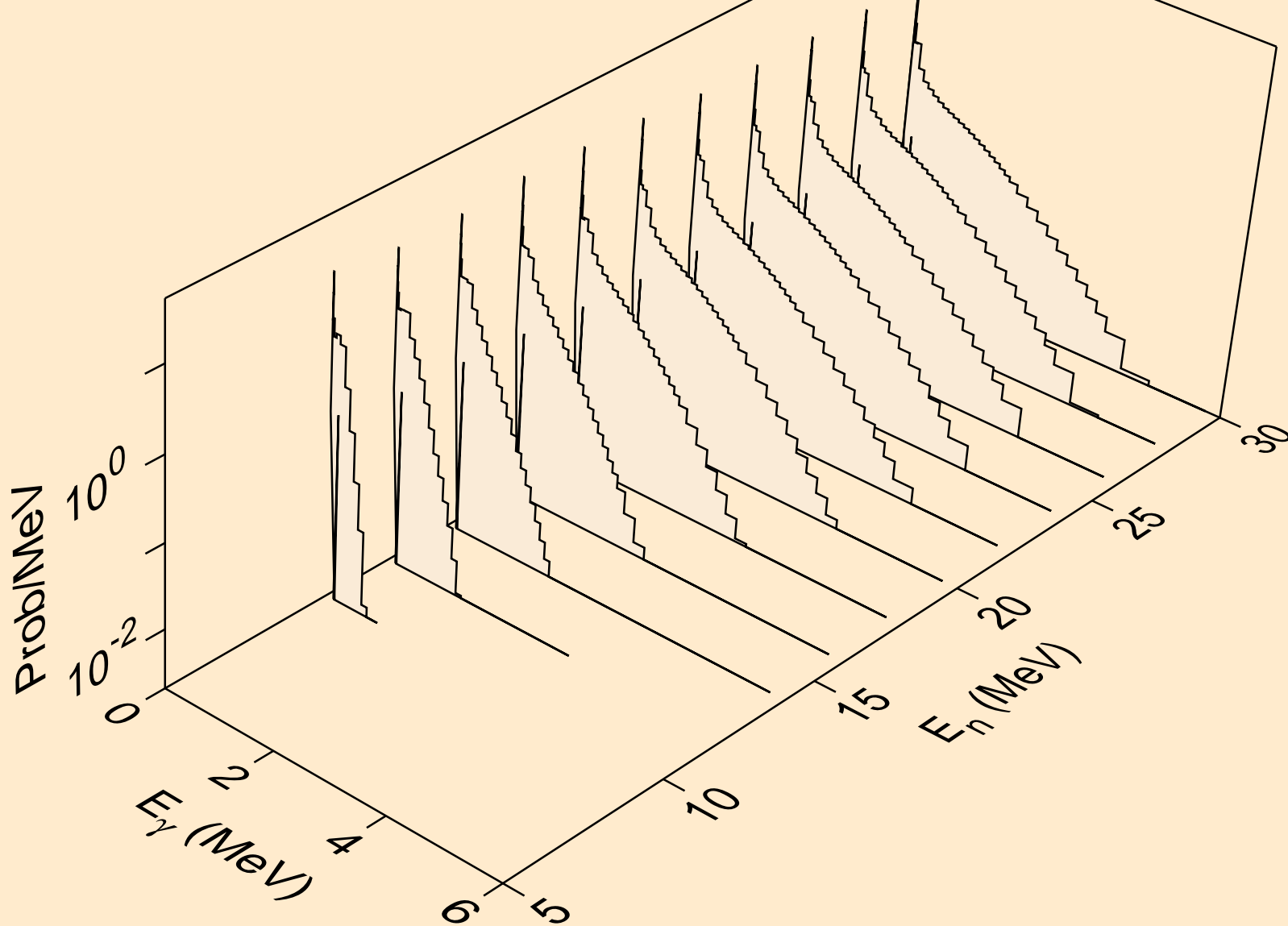
HF184 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,p)



HF184 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,d)

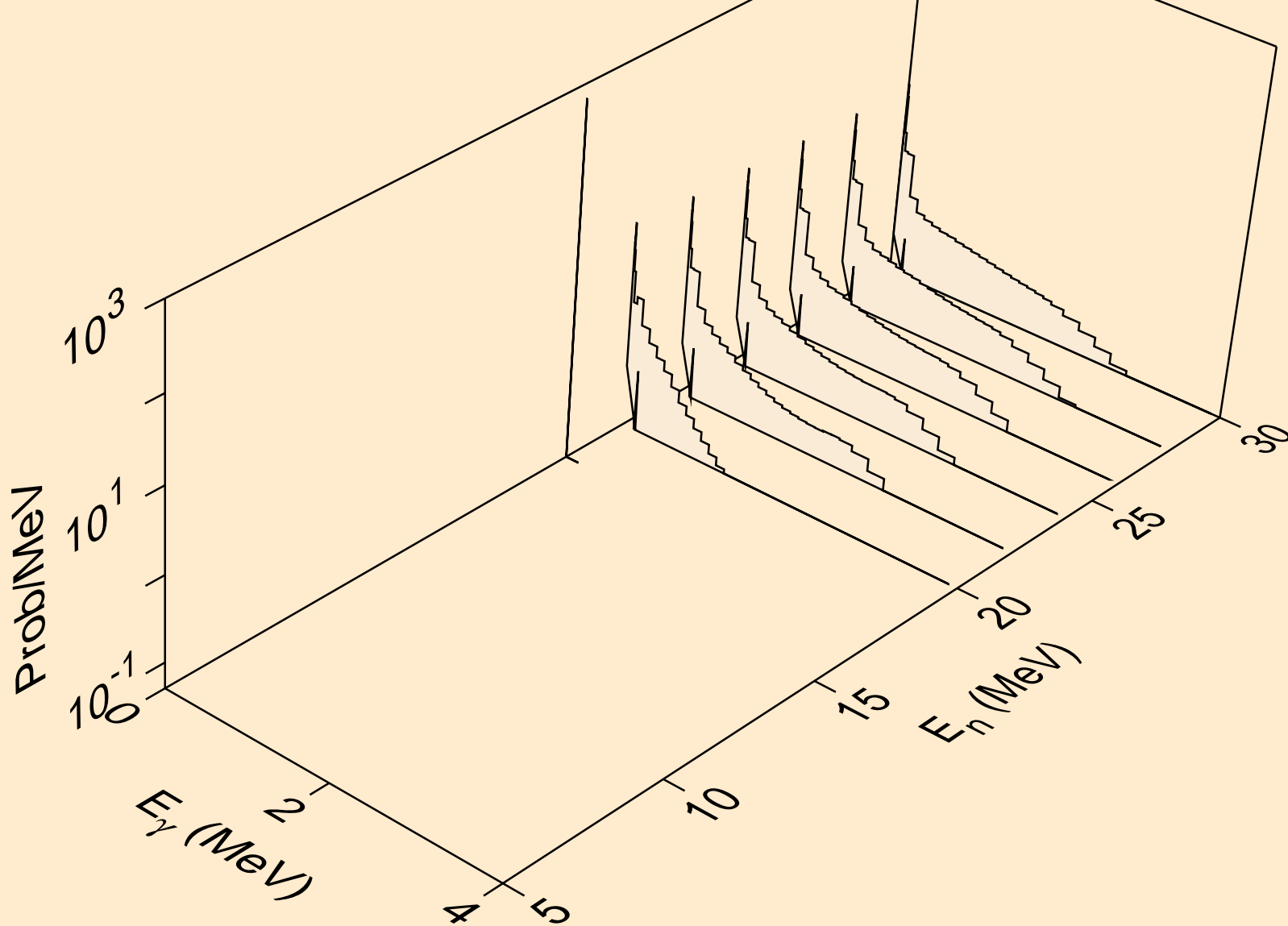


HF184 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,t)

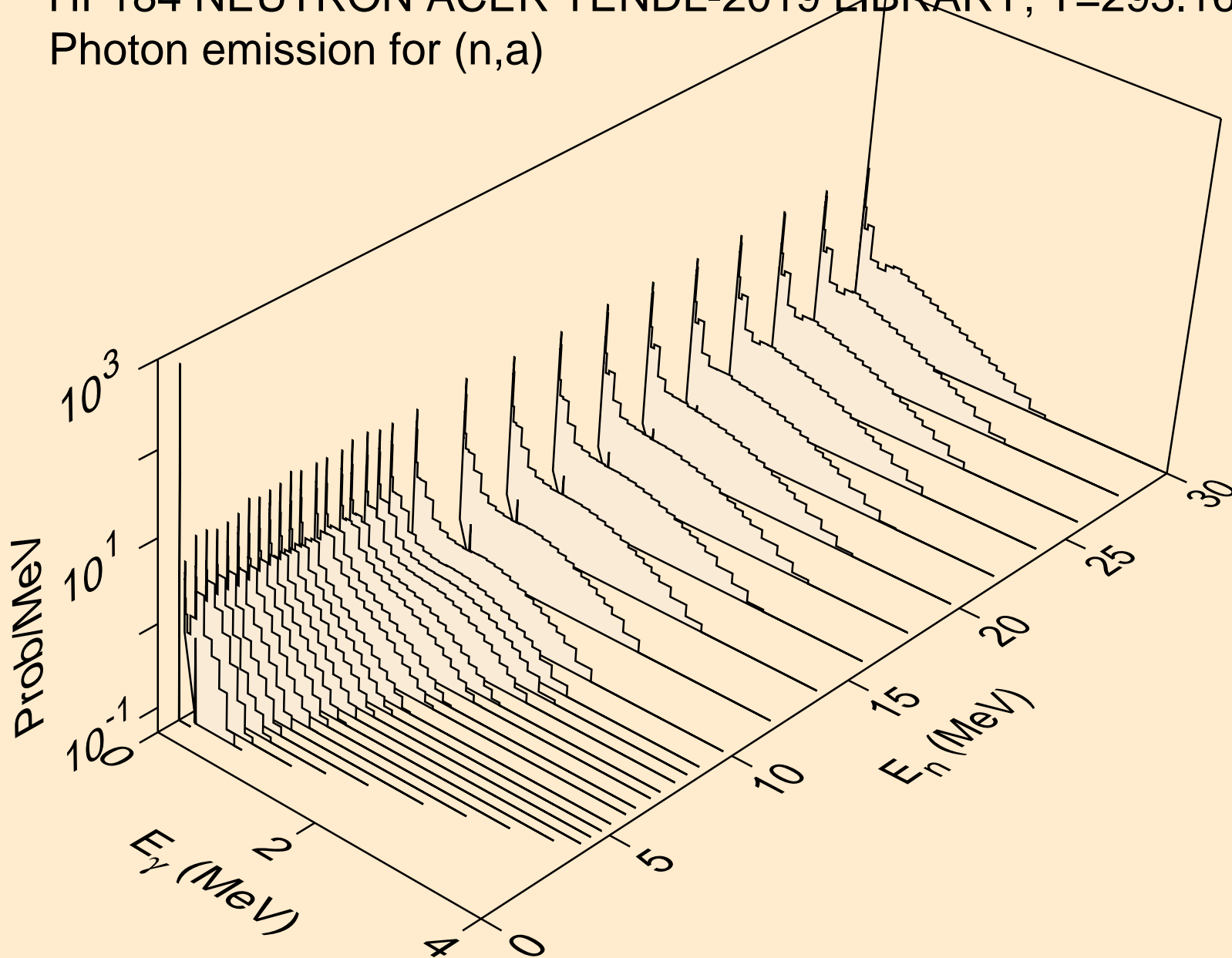




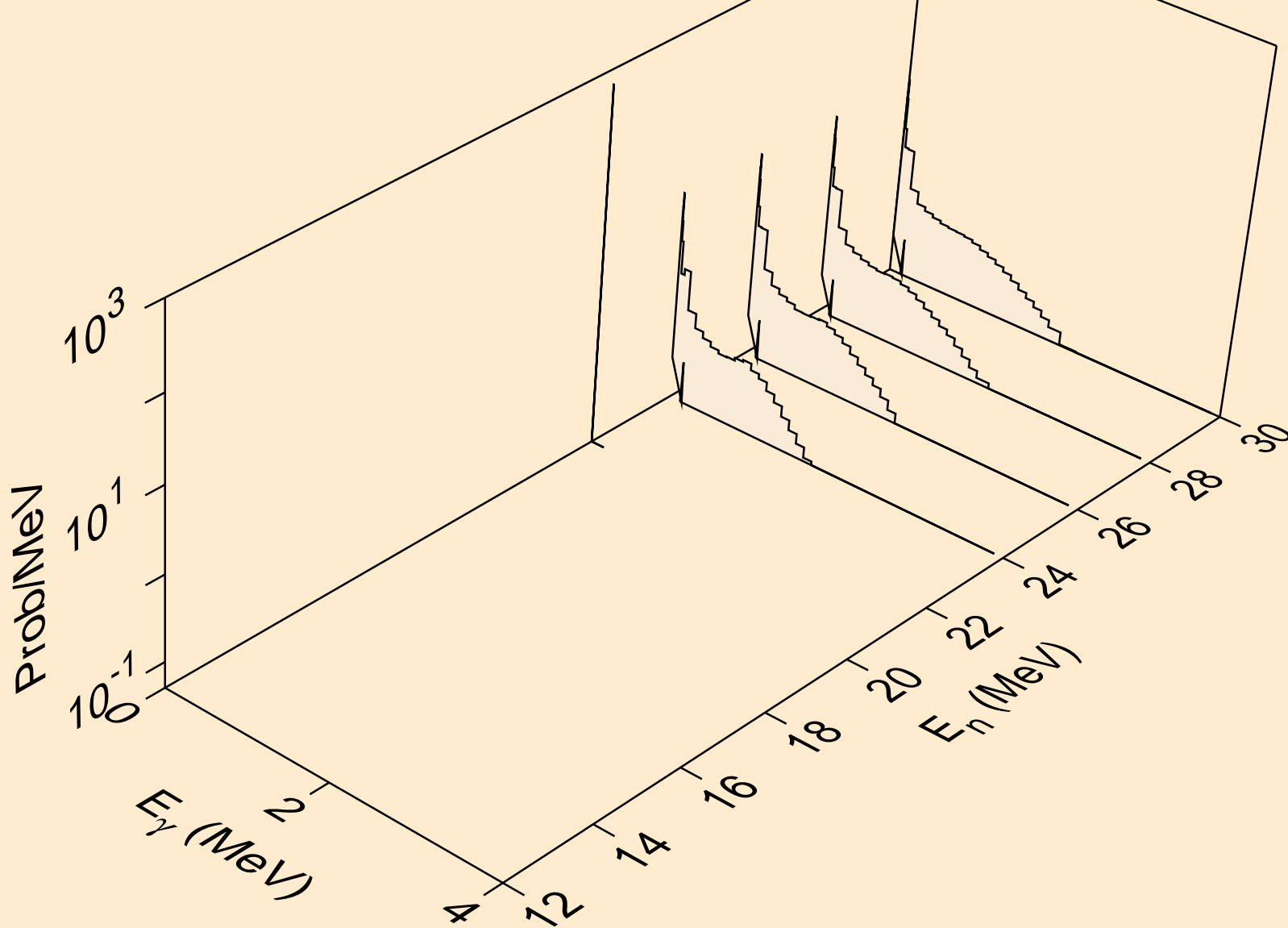
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Photon emission for (n,he3)



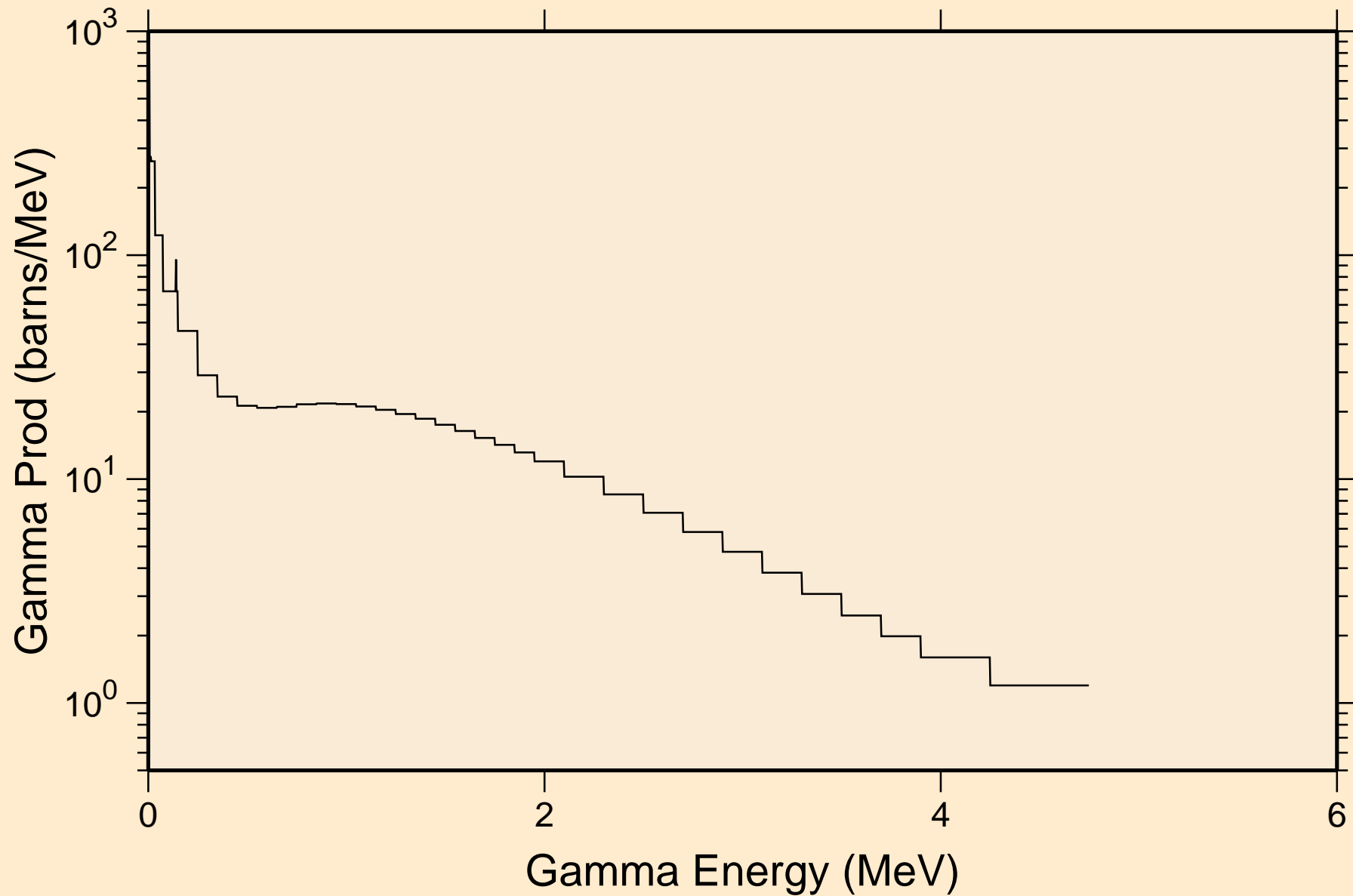
HF184 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,a)



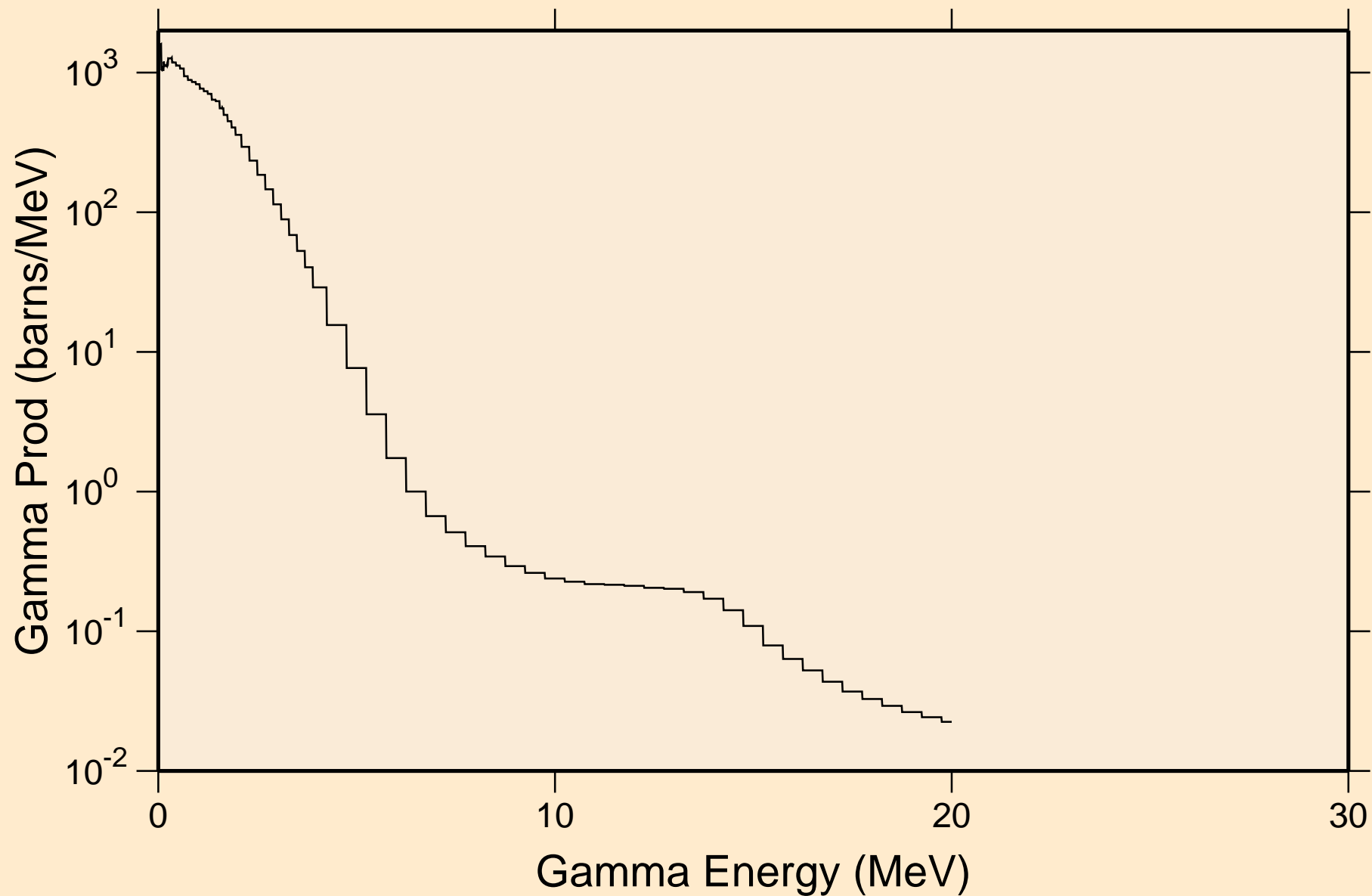
HF184 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,2p)



HF184 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
thermal capture photon spectrum

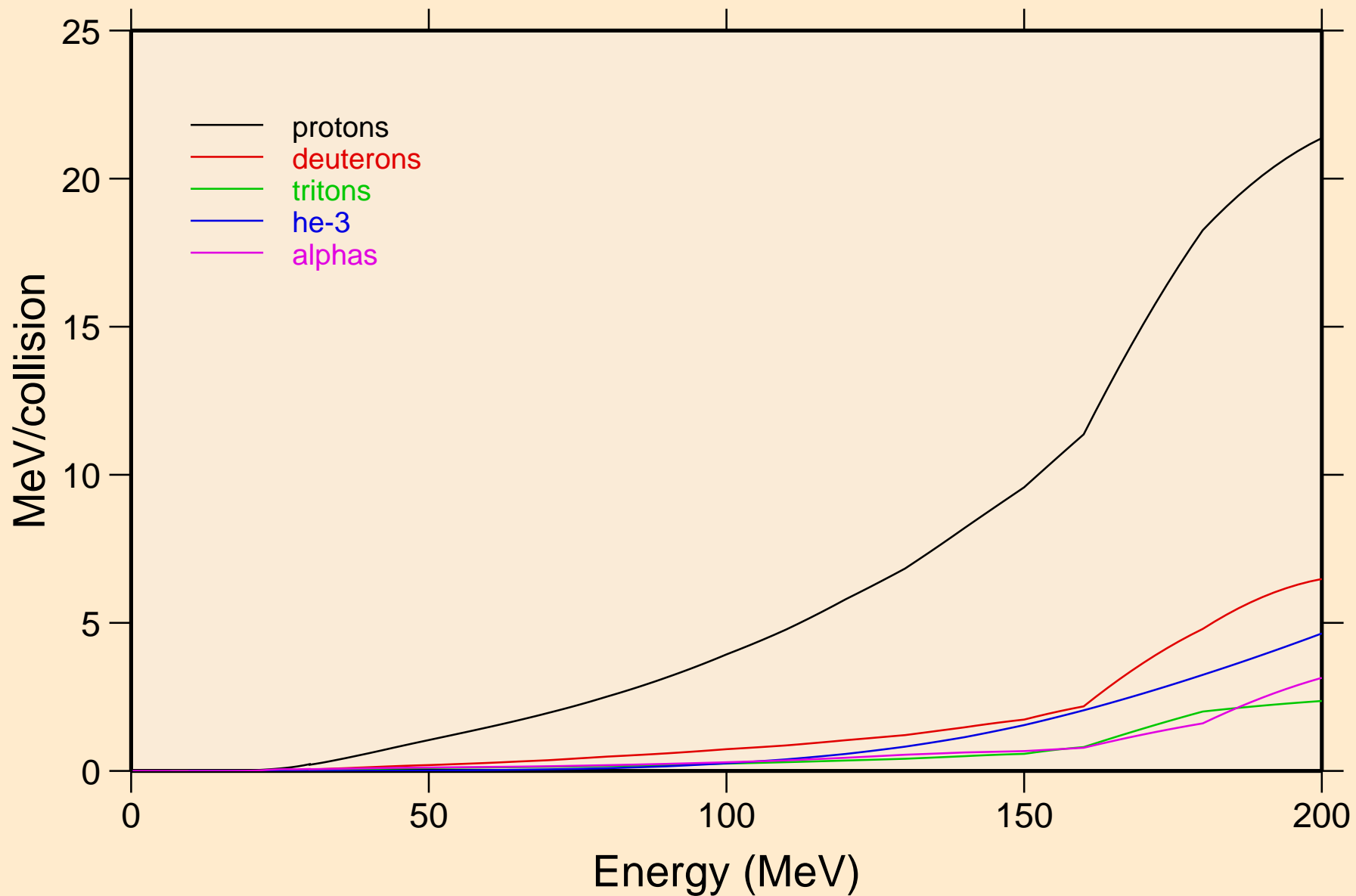


HF184 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
14 MeV photon spectrum



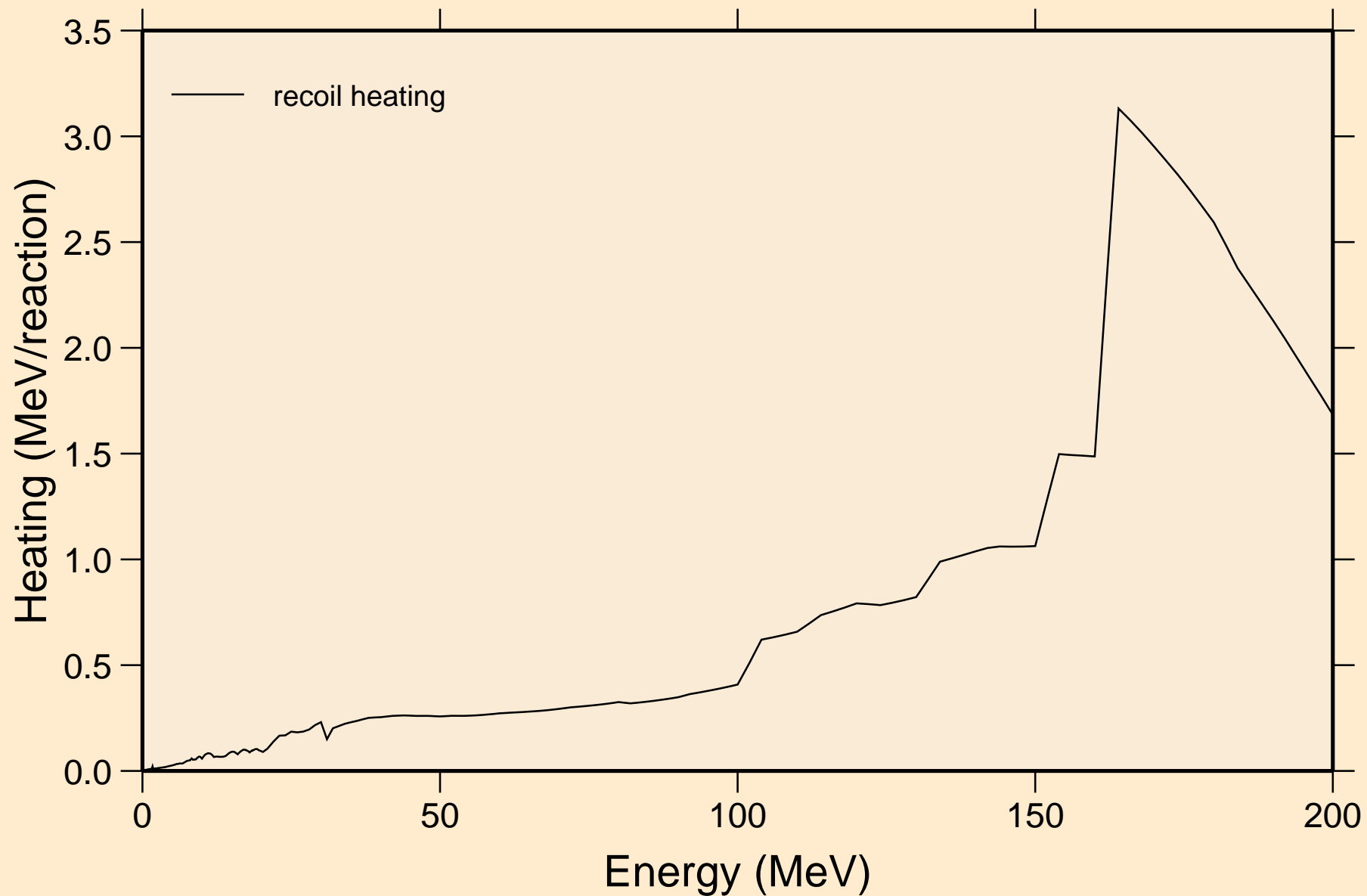
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## Particle heating contributions



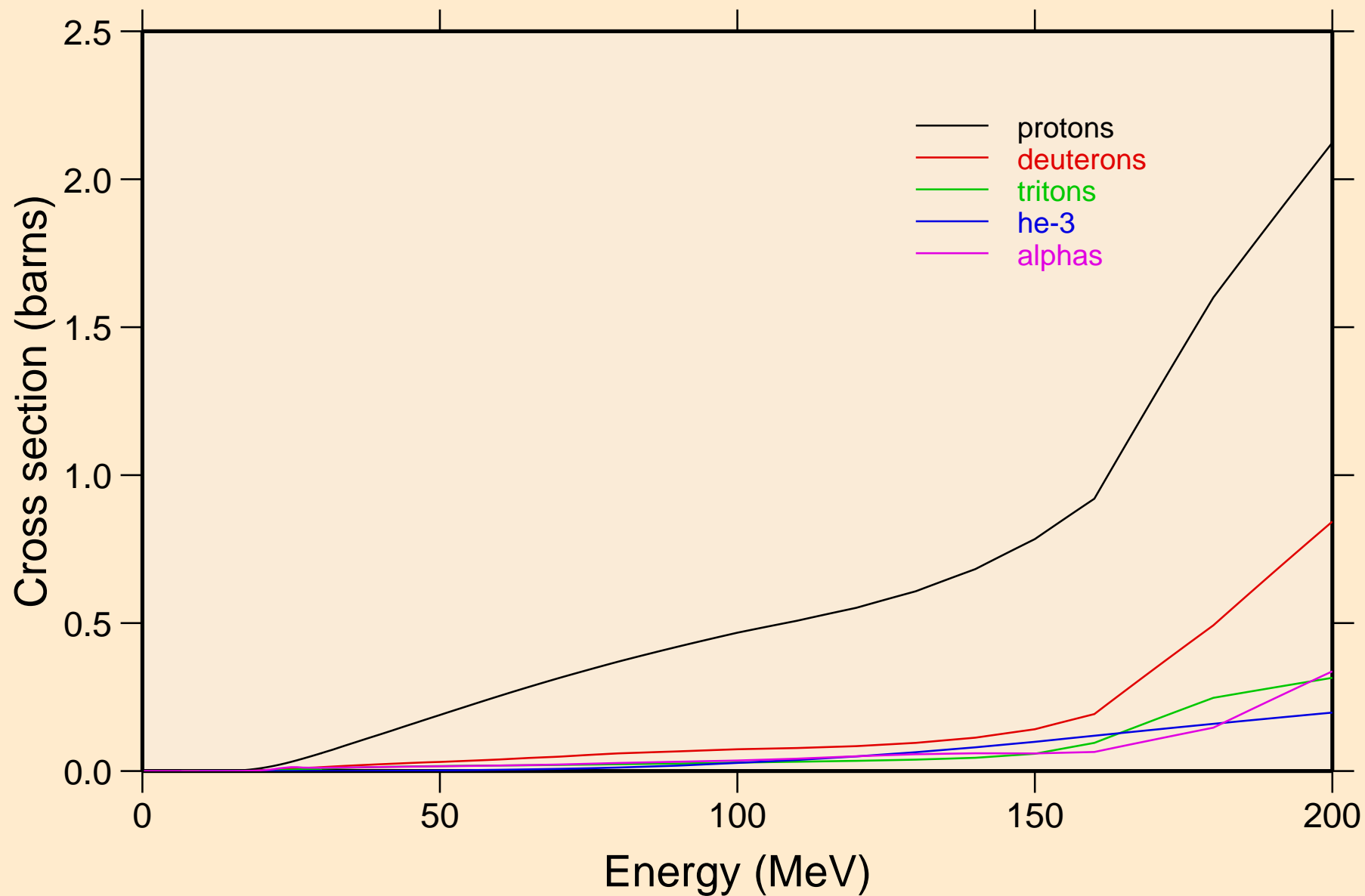
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## Recoil Heating



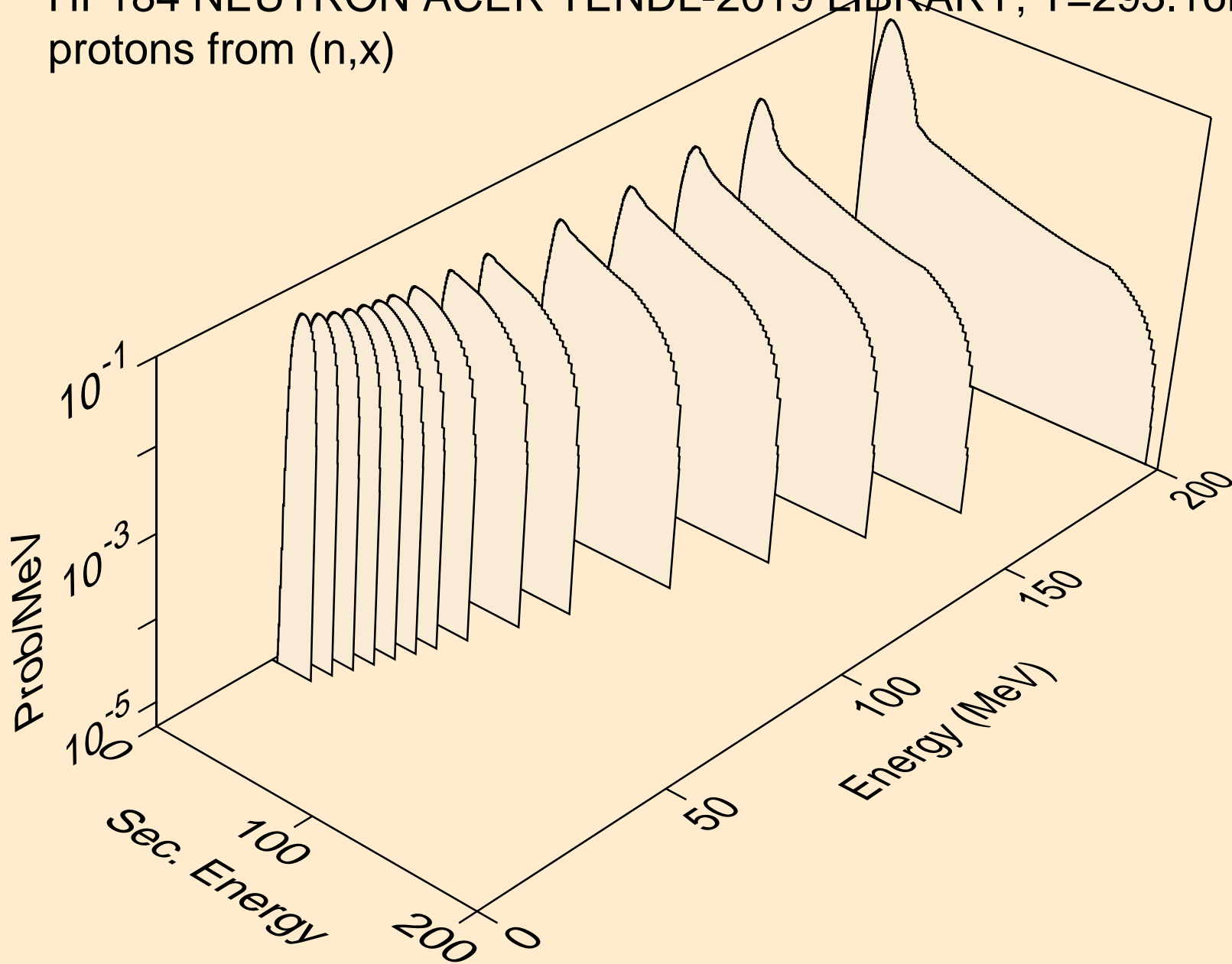
# HF184 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K

## Particle production cross sections

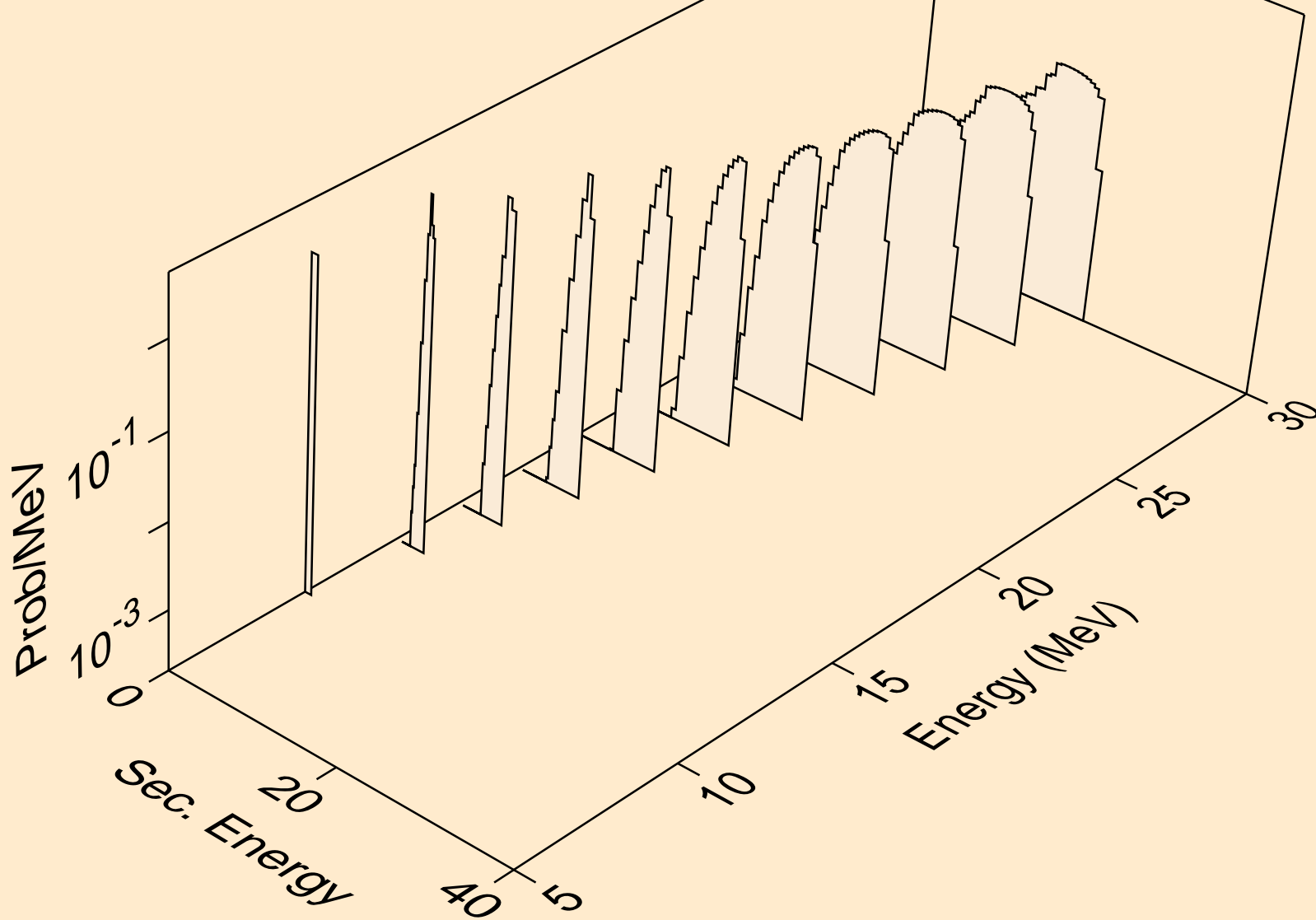




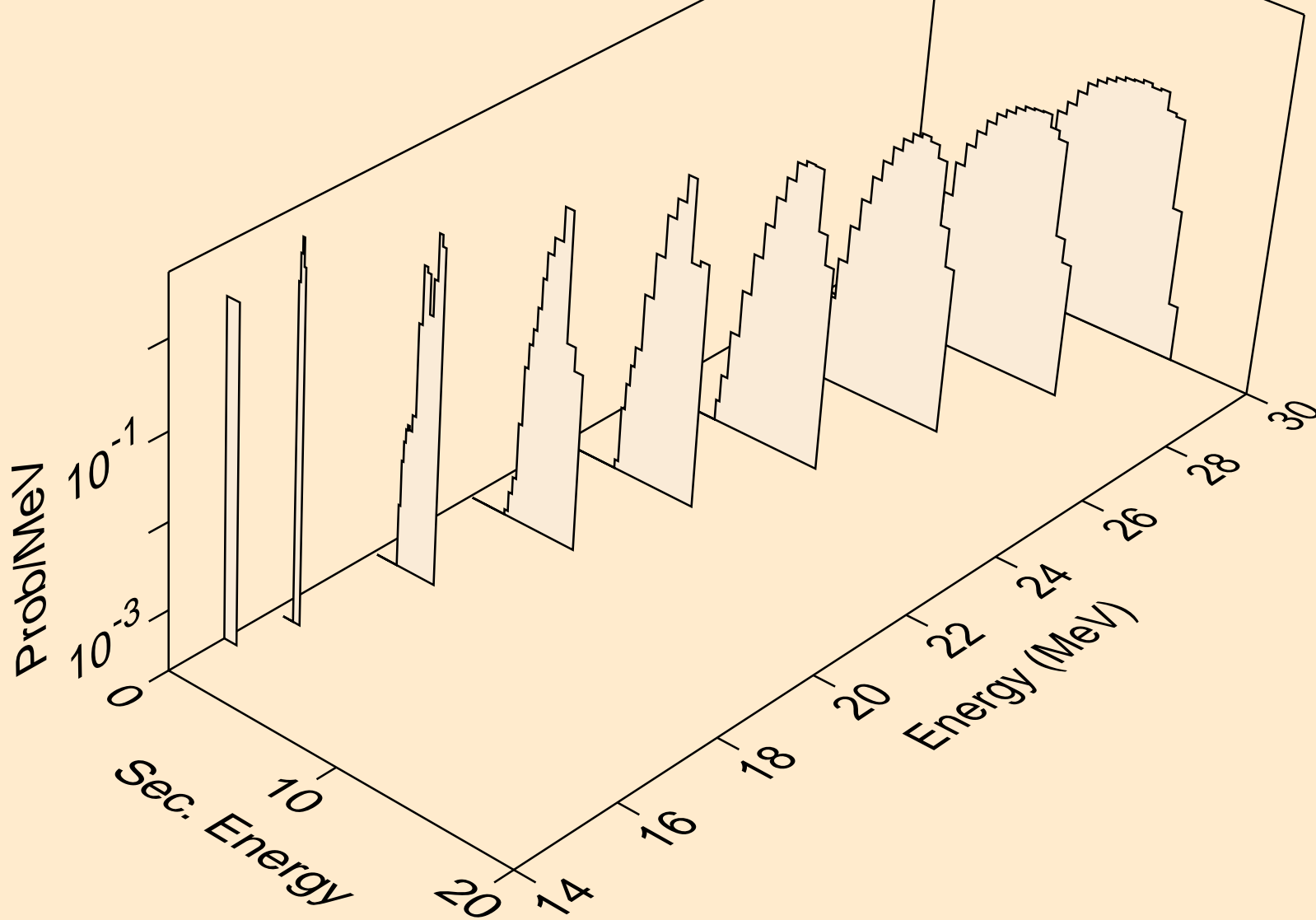
HF184 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
protons from (n,x)



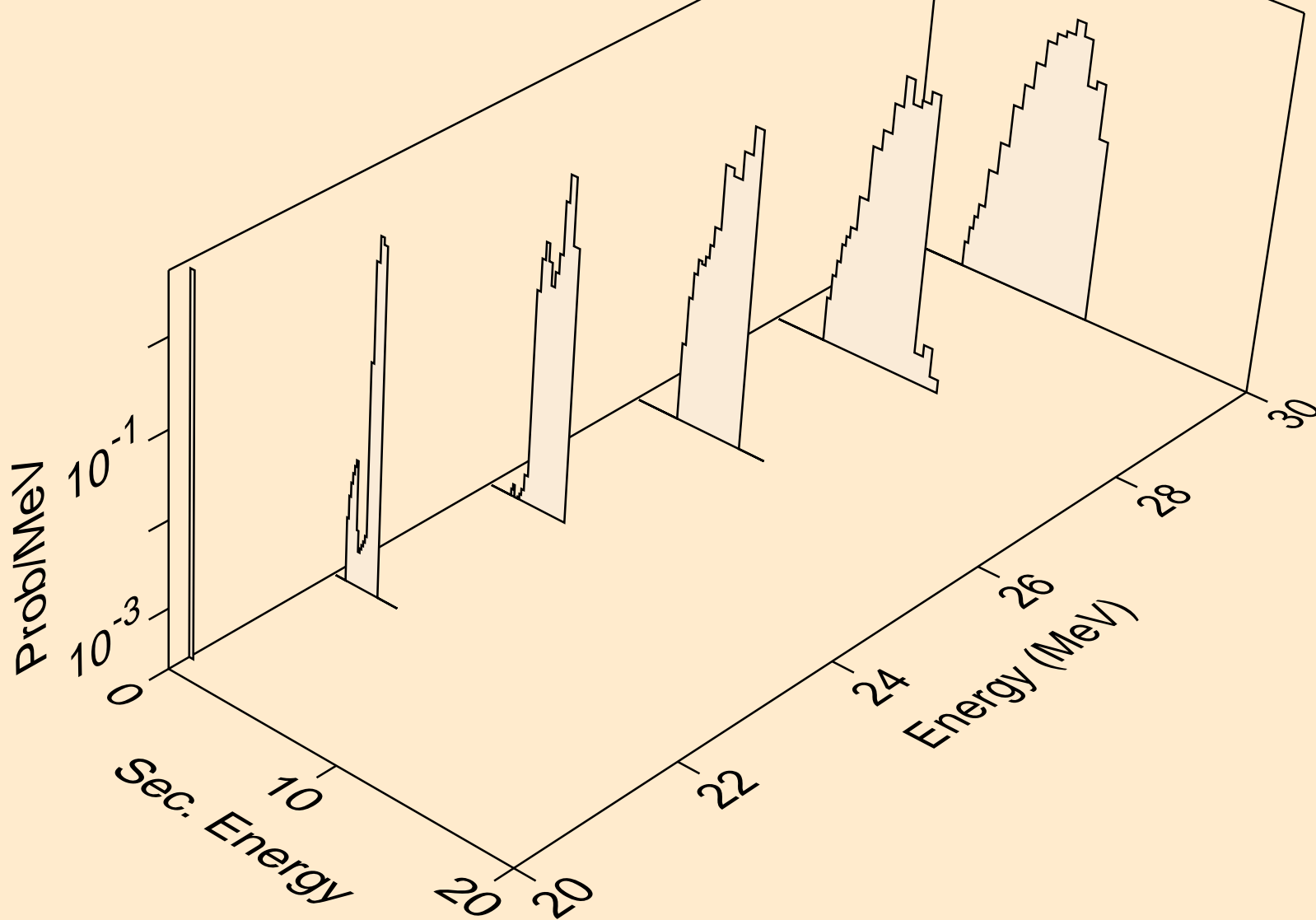
HF184 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
protons from (n,n\*)p



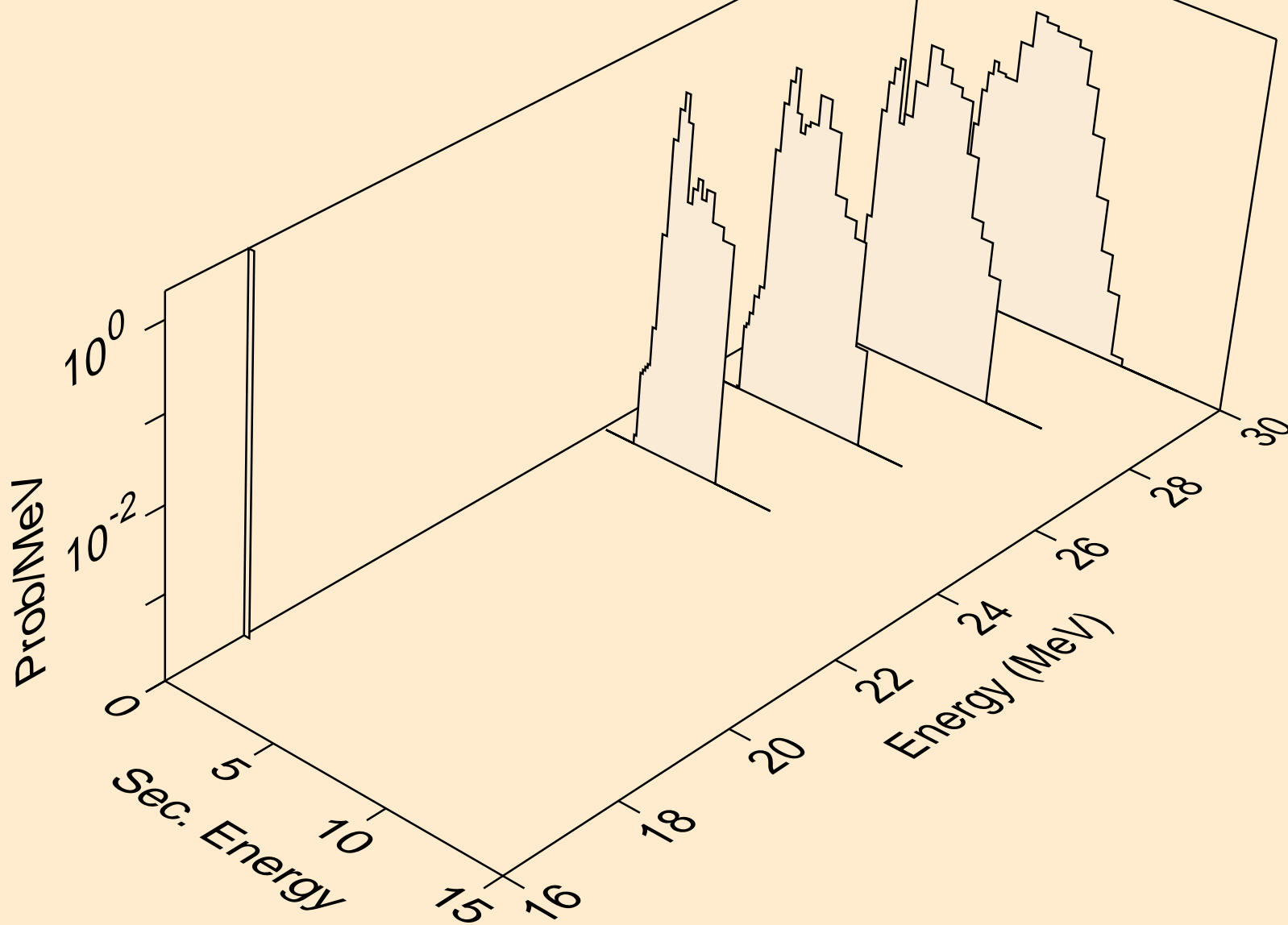
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protons from (n,2np)



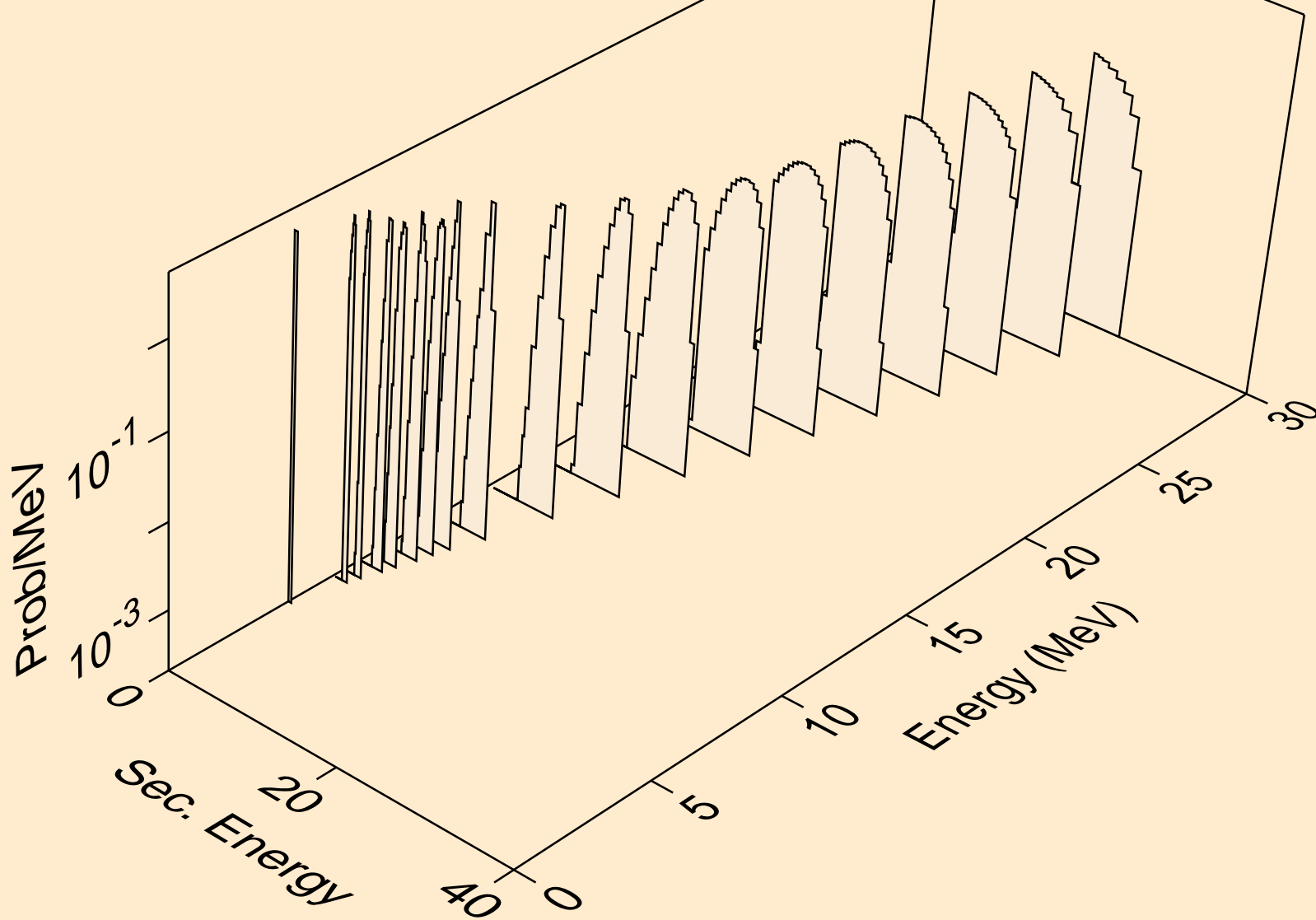
HF184 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
protons from (n,3np)



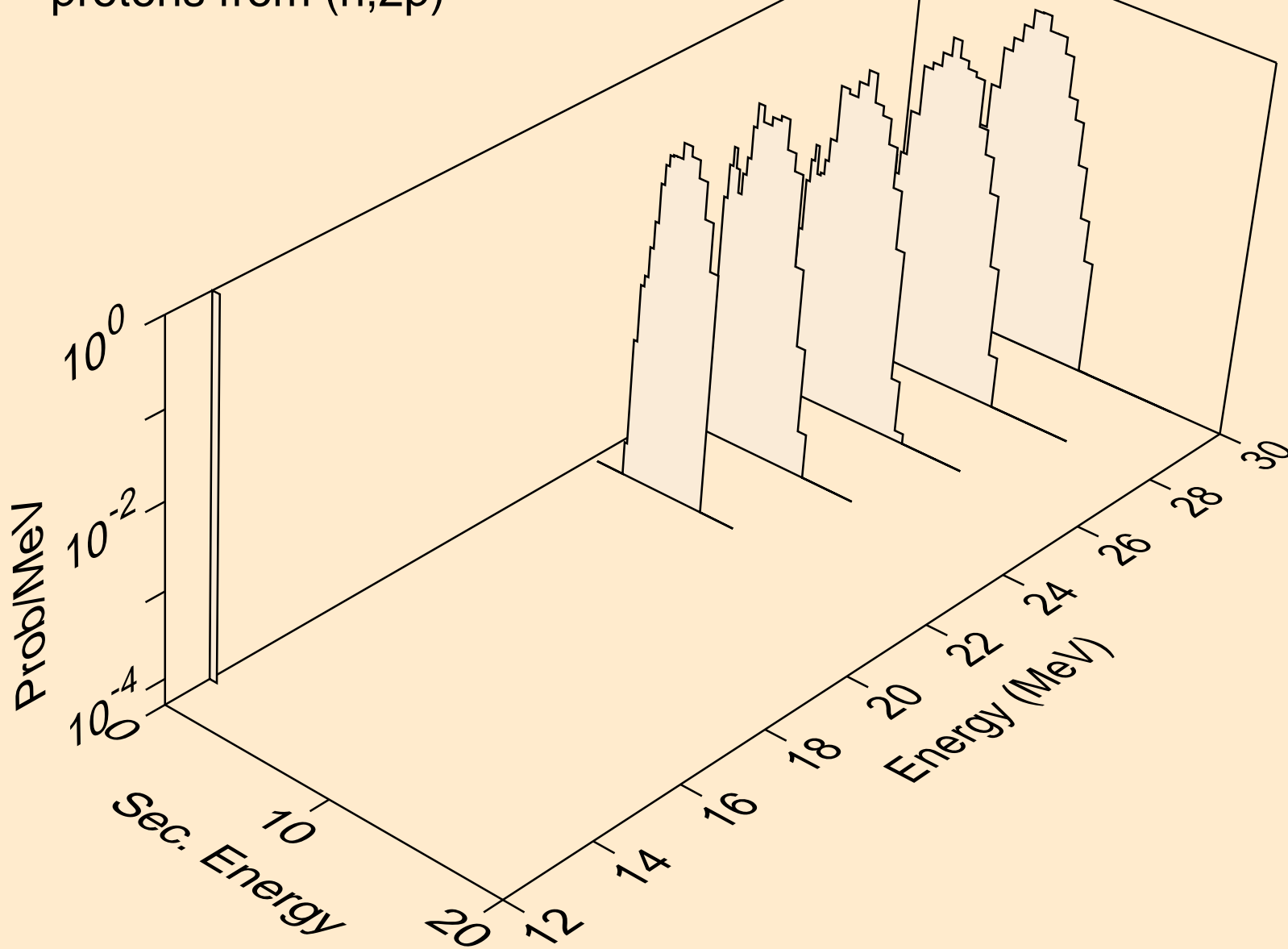
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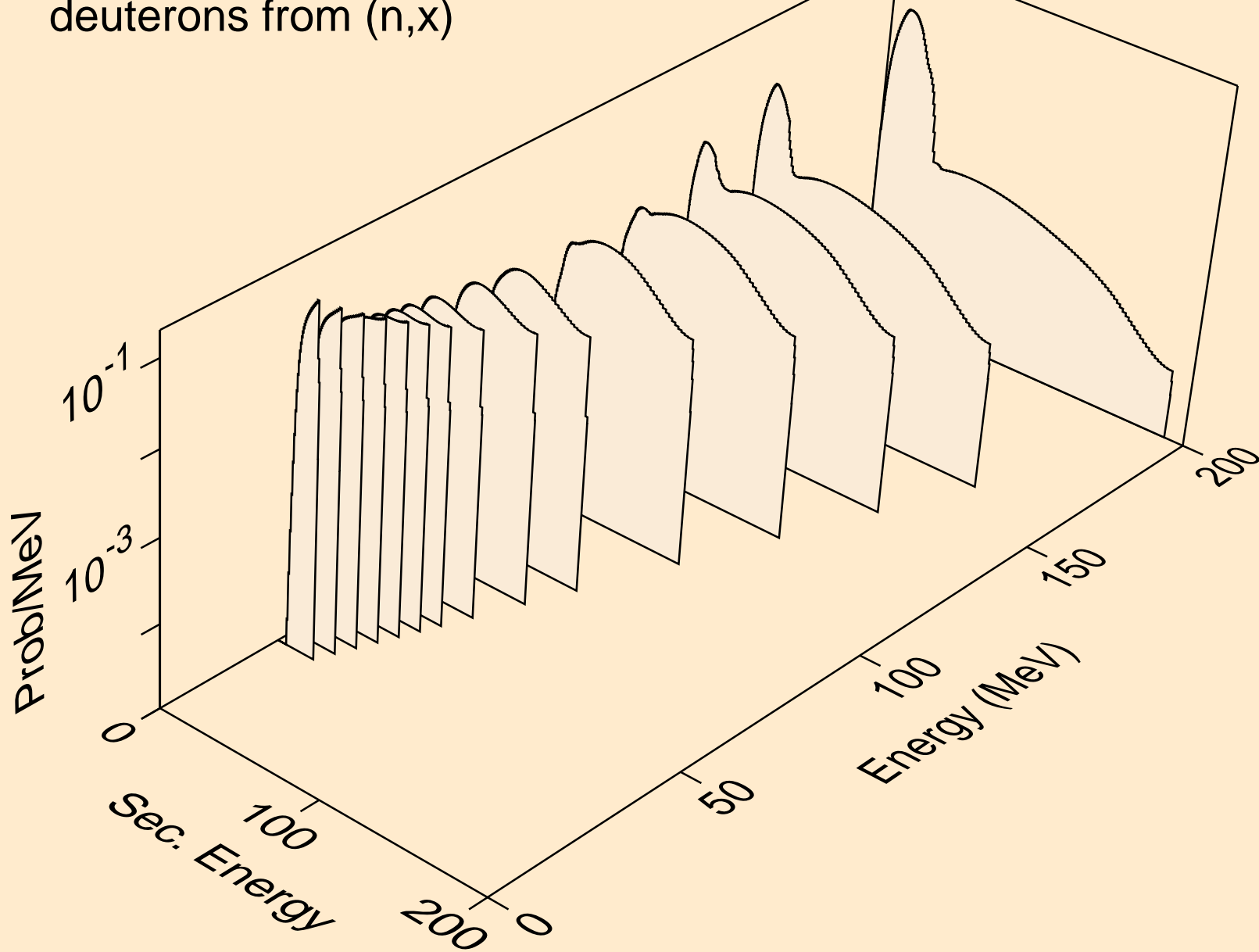
HF184 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
protons from (n,p)



HF184 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
protons from (n,2p)

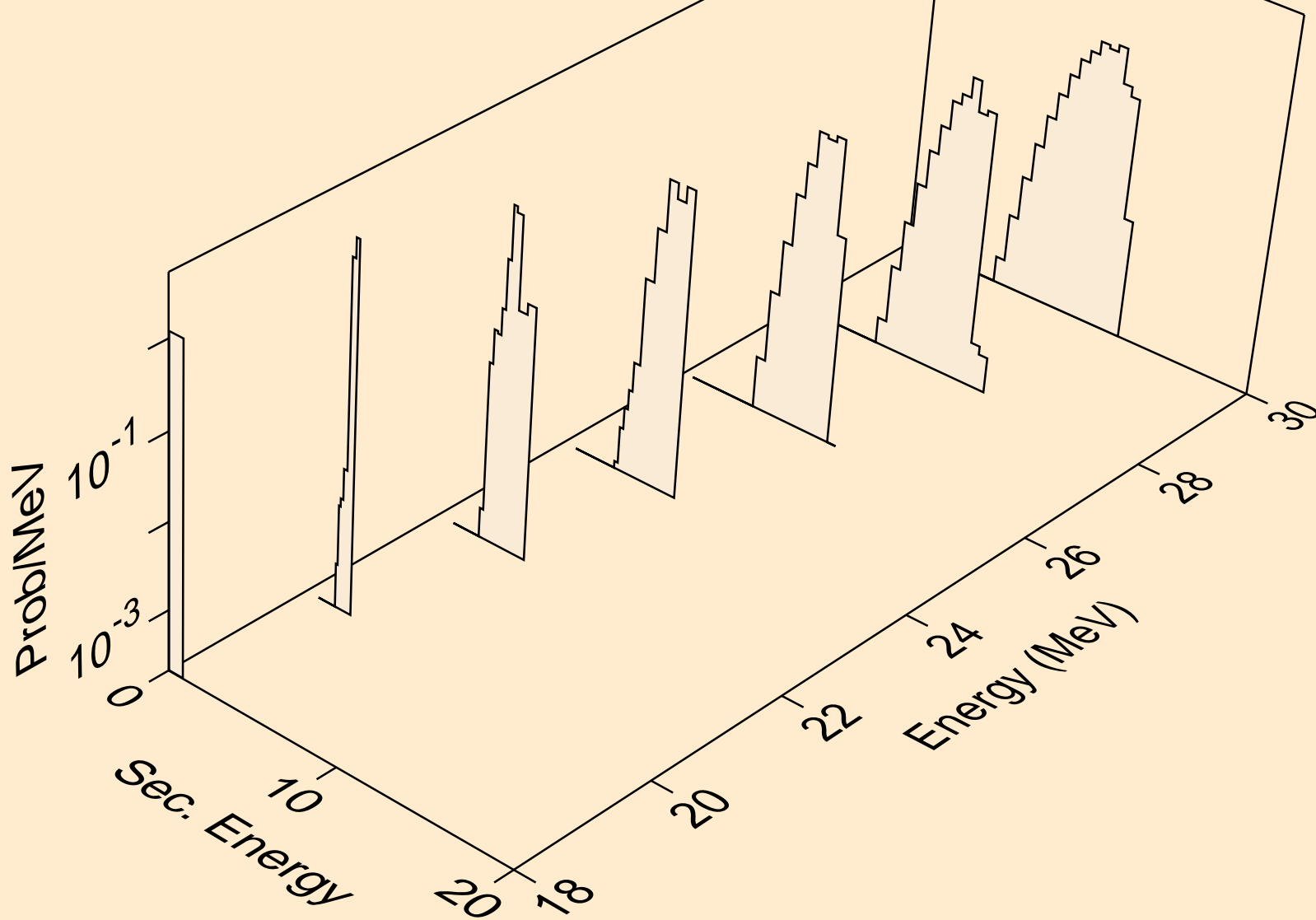


HF184 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
deuterons from (n,x)

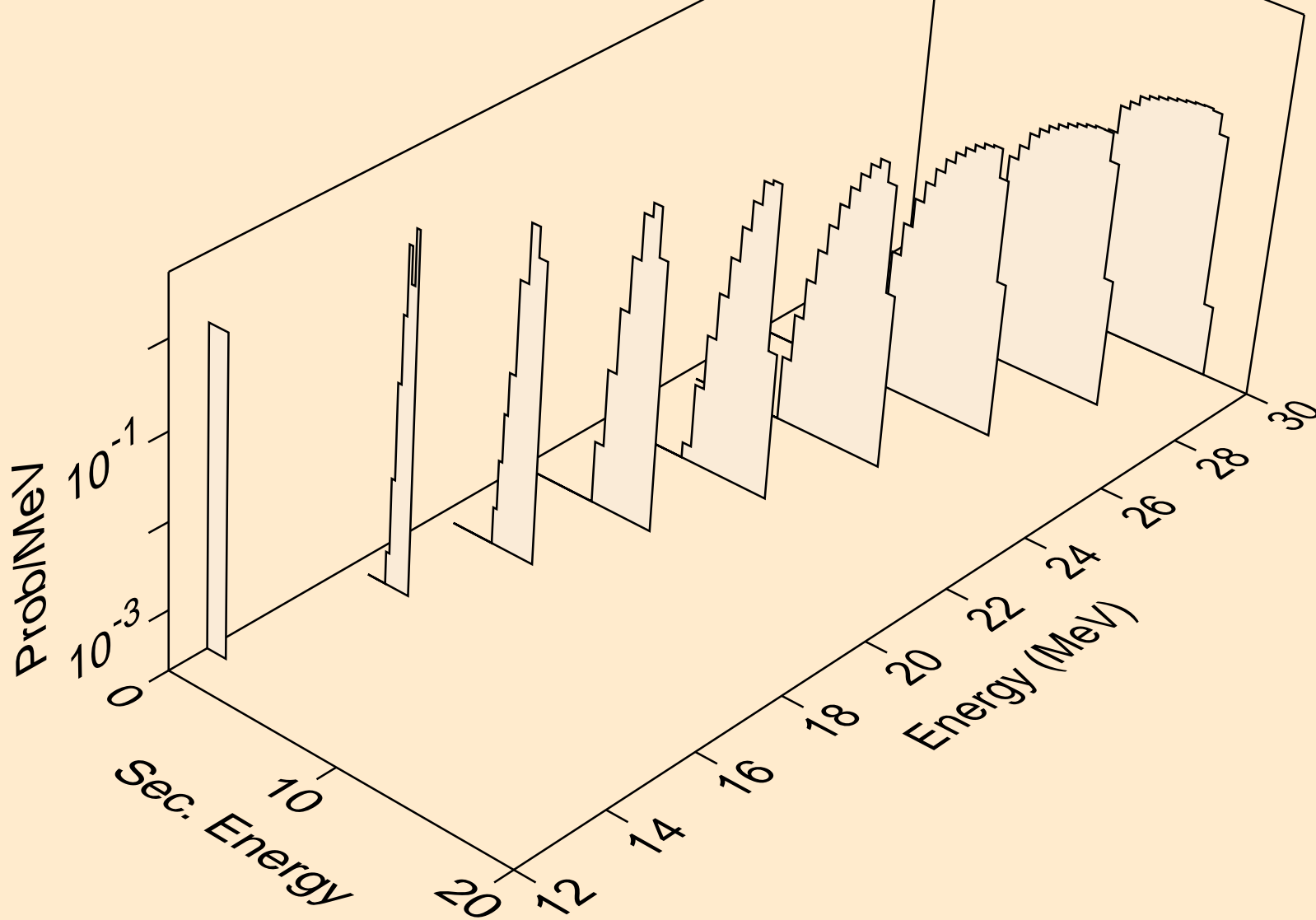




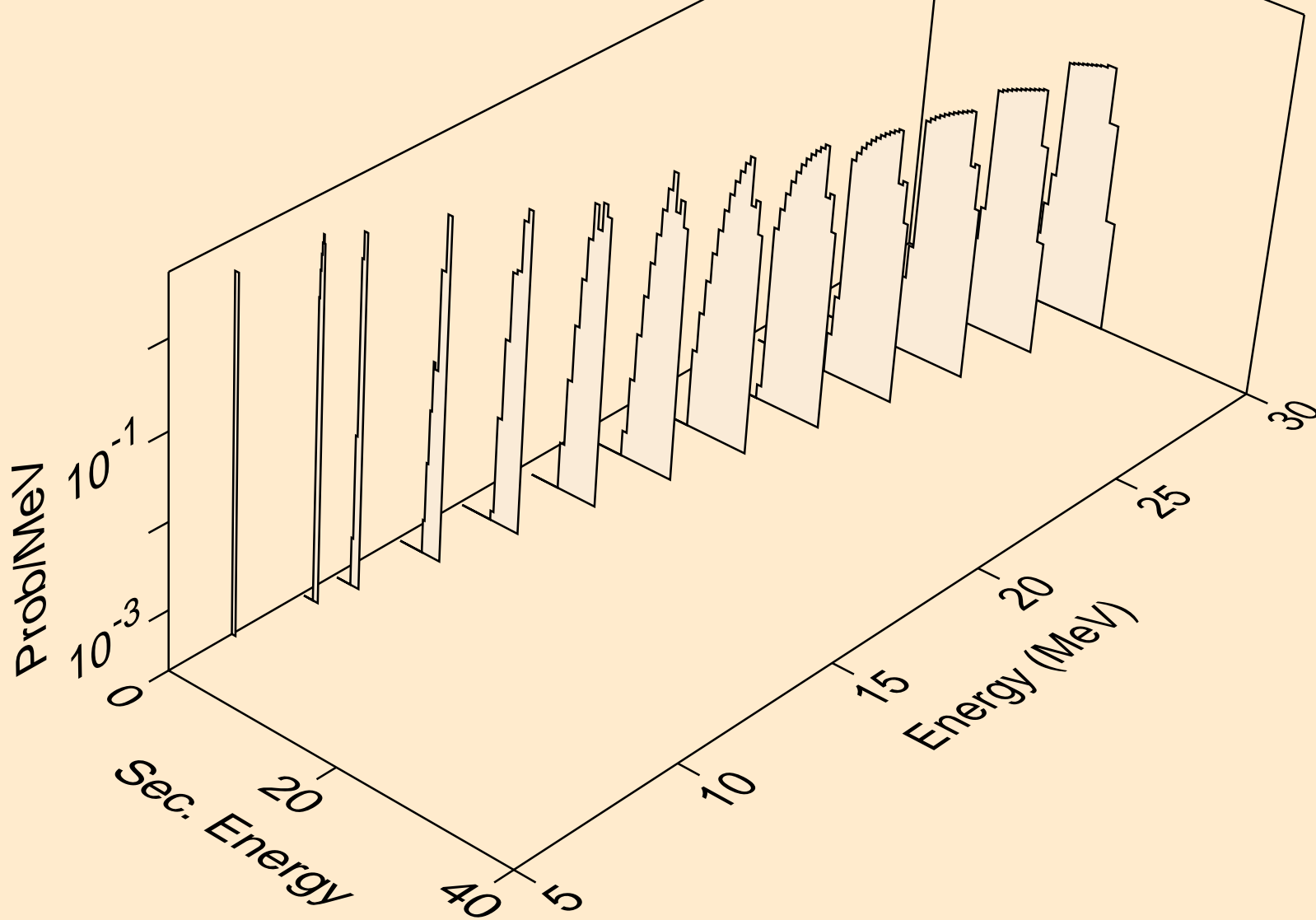
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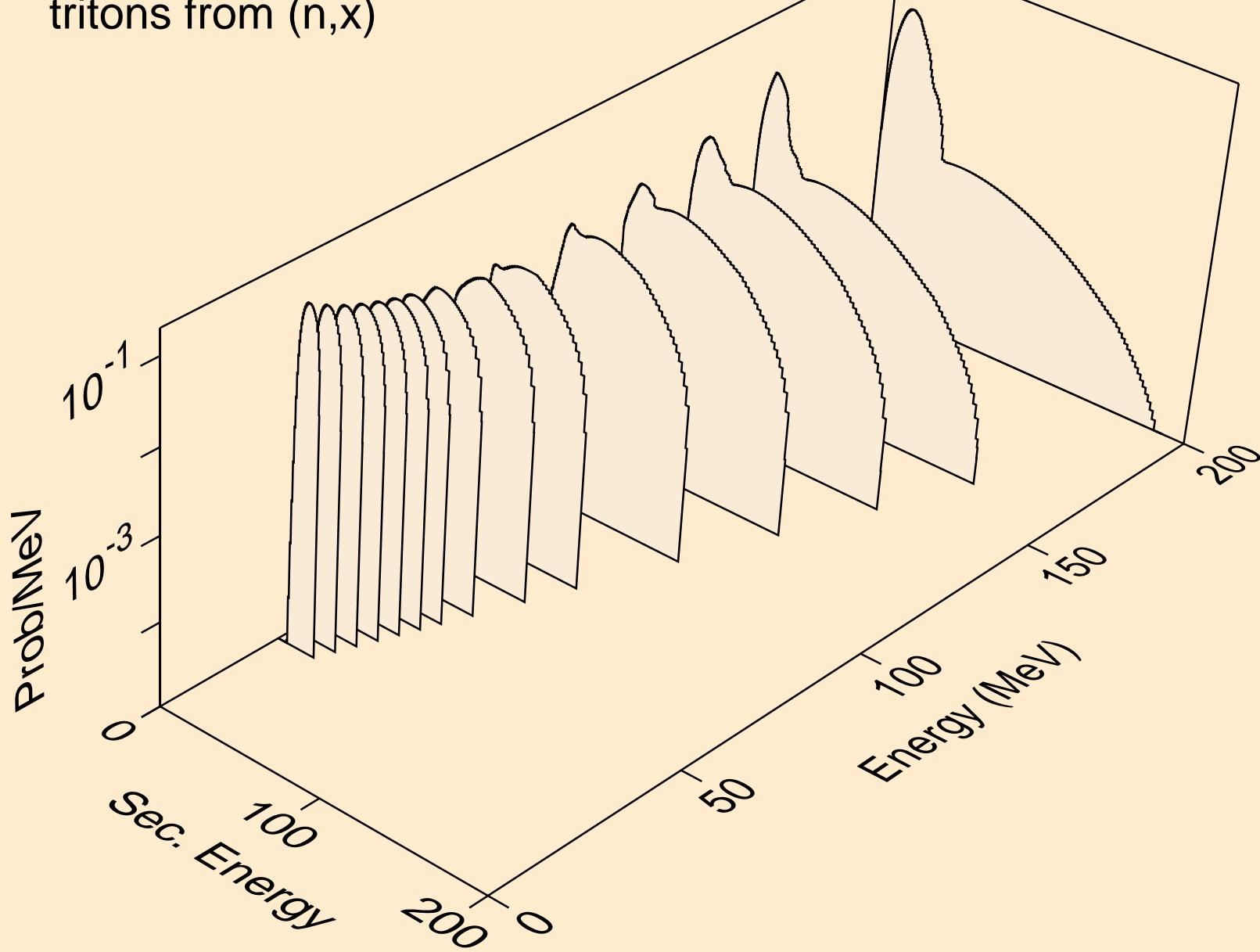
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deuterons from (n,n\*)d



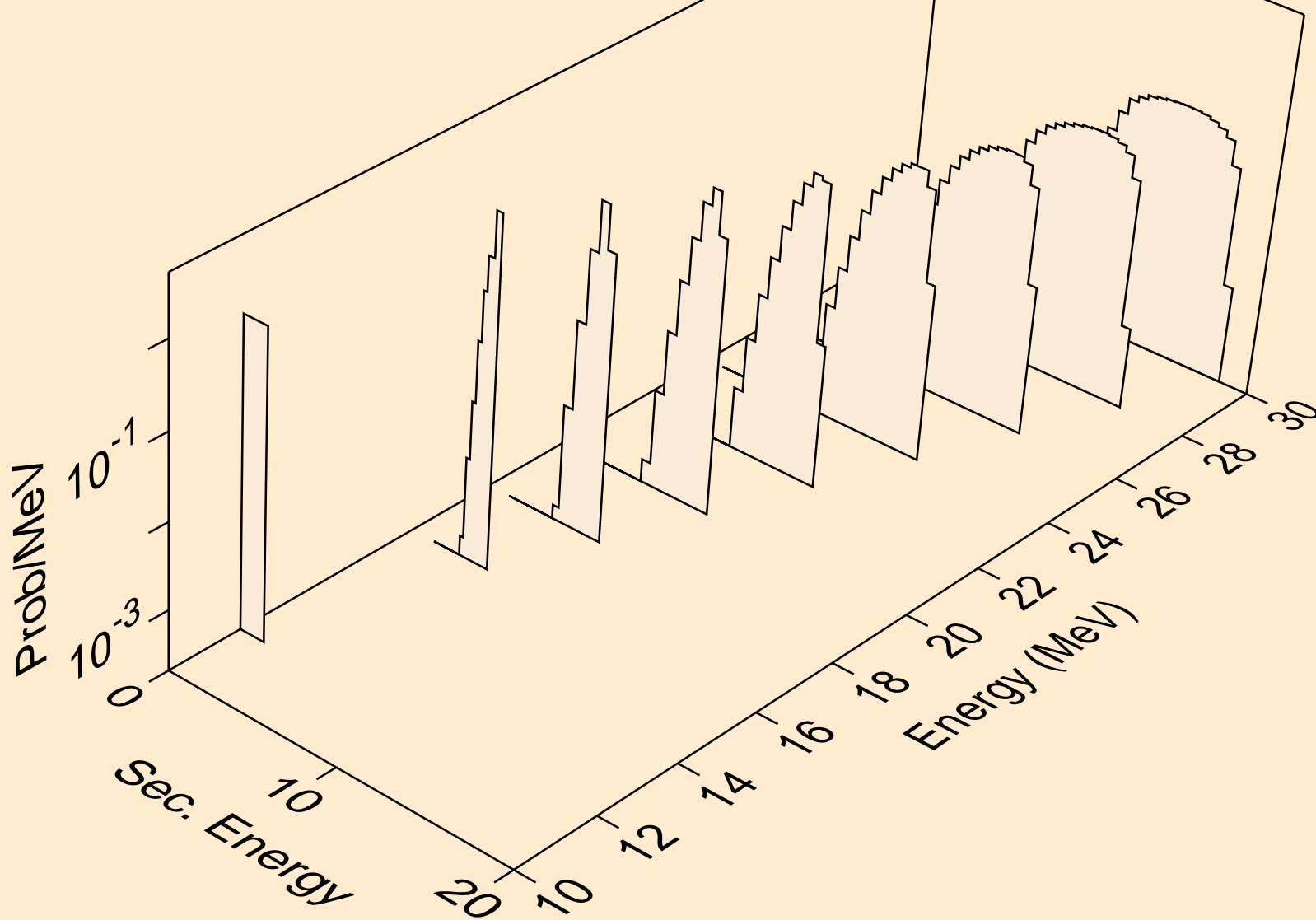
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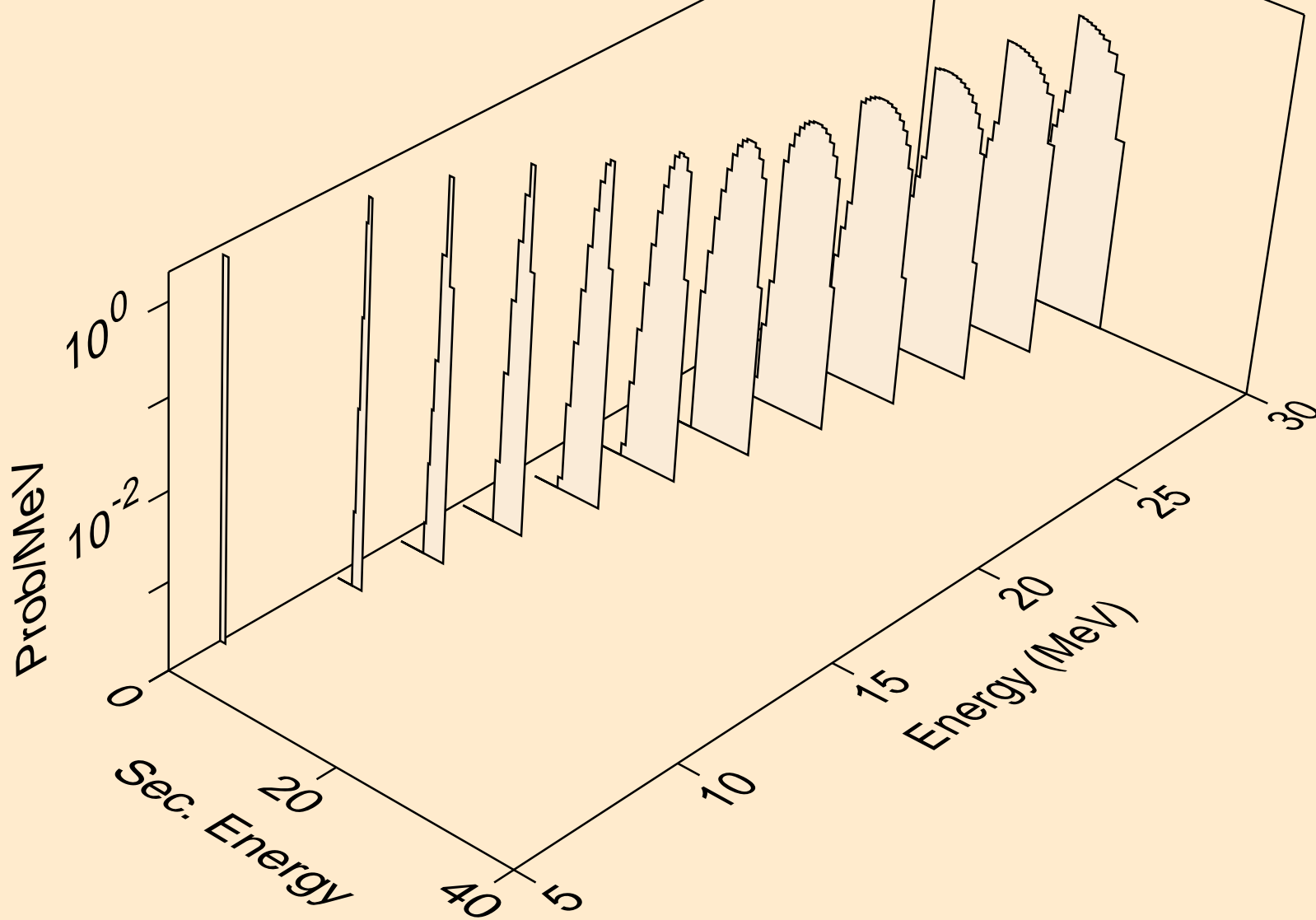
HF184 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
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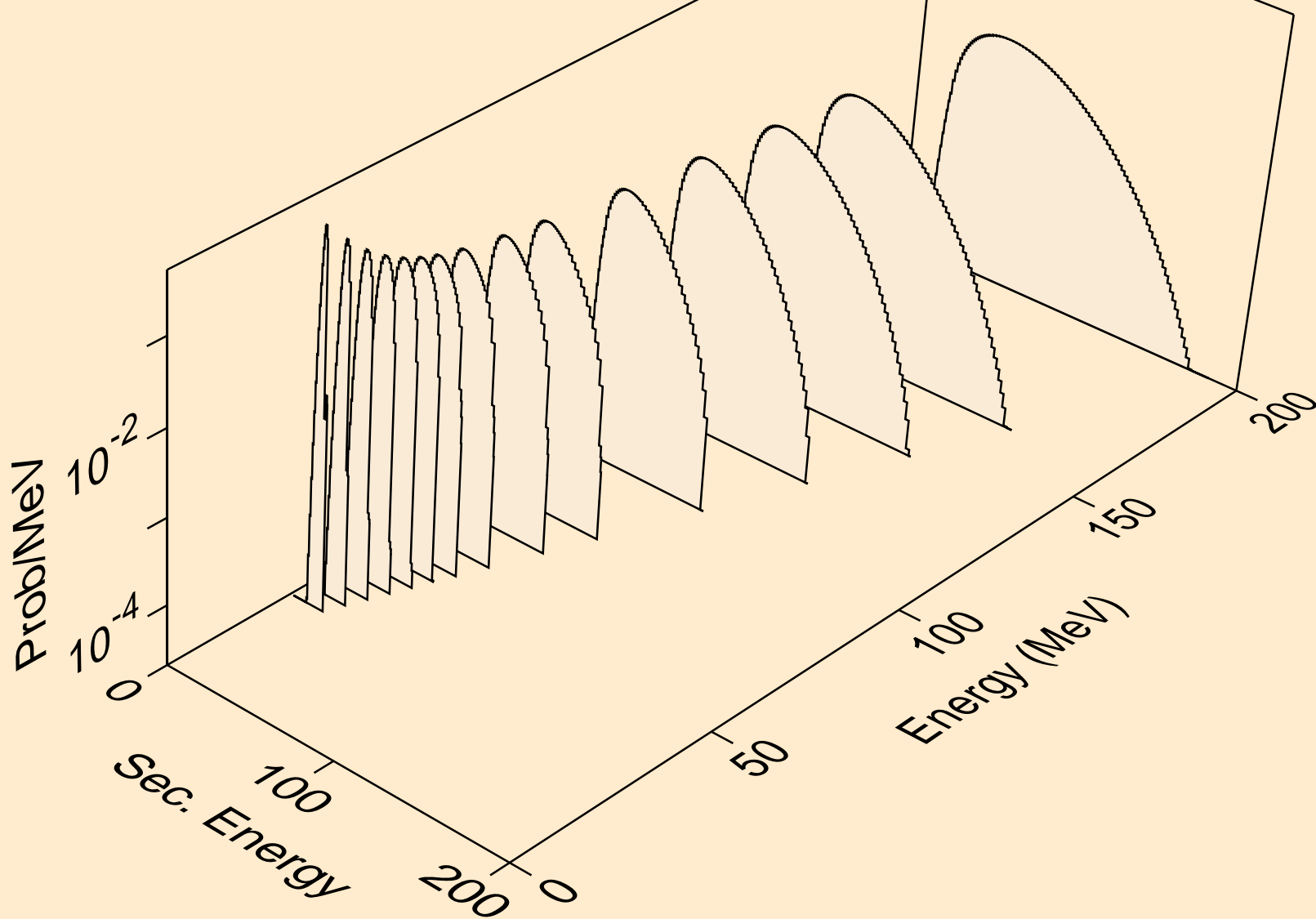
HF184 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
tritons from (n,n\*)t



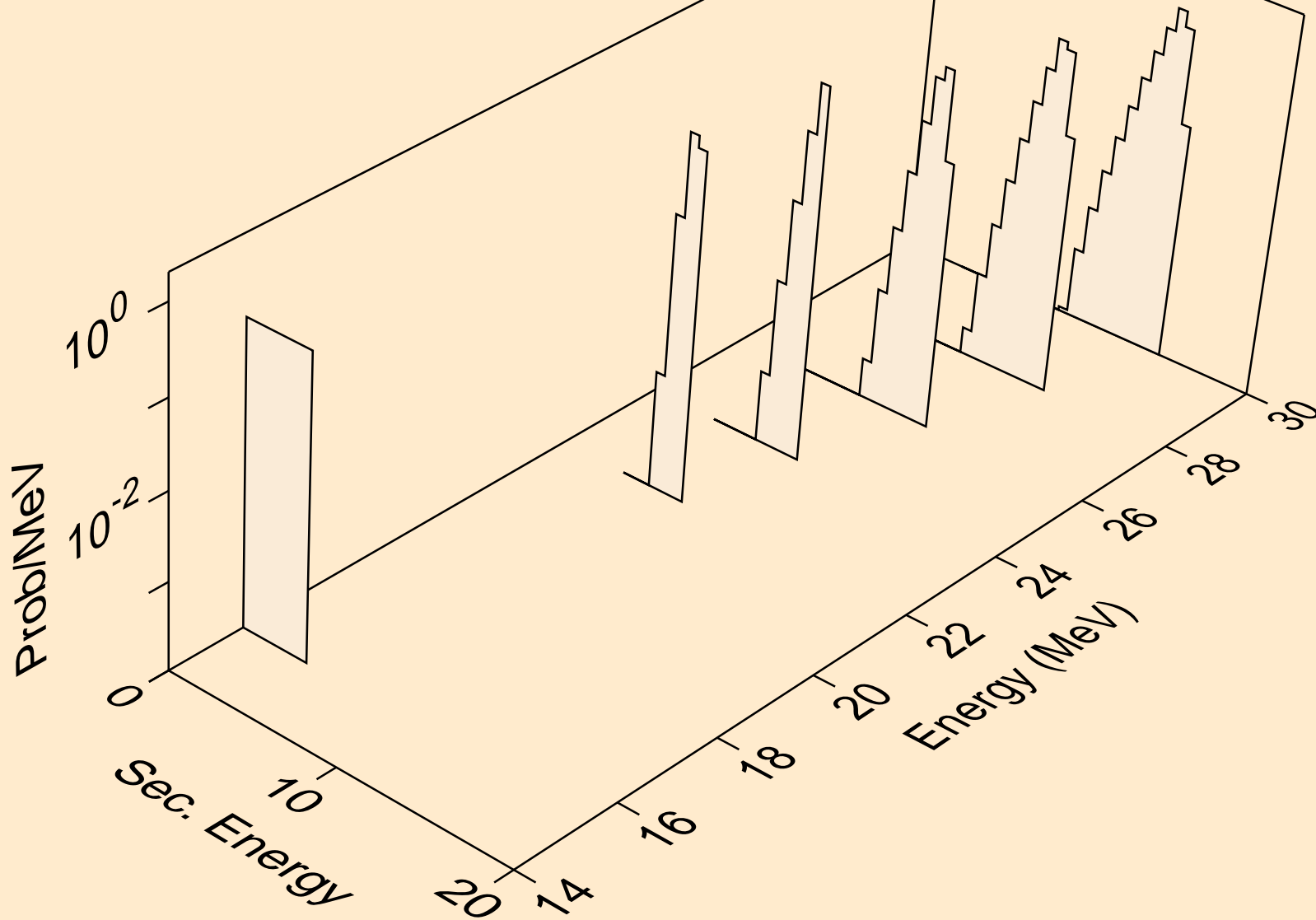
HF184 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
tritons from (n,t)



HF184 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
he3s from (n,x)

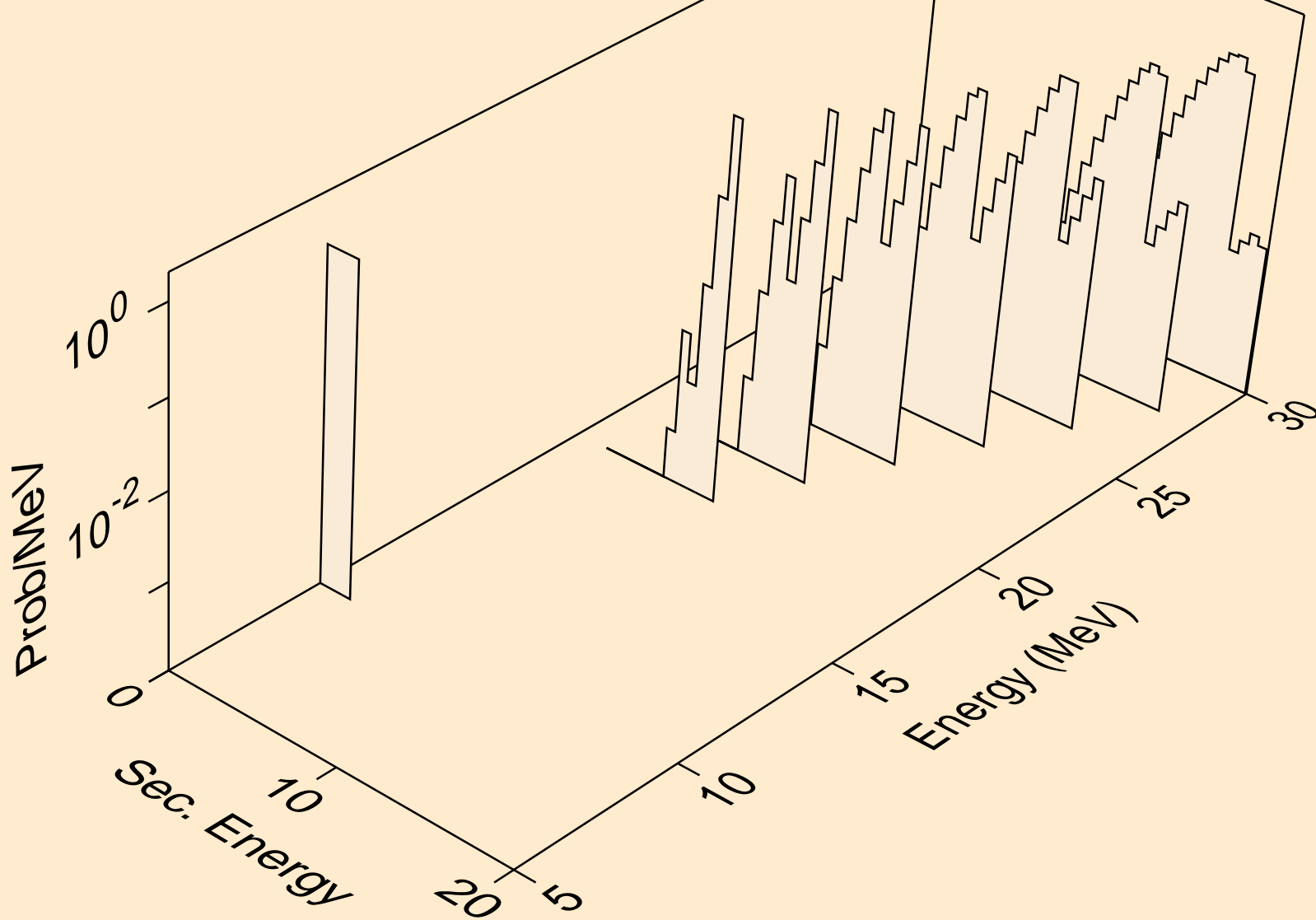


HF184 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
he3s from (n,n\*)he3

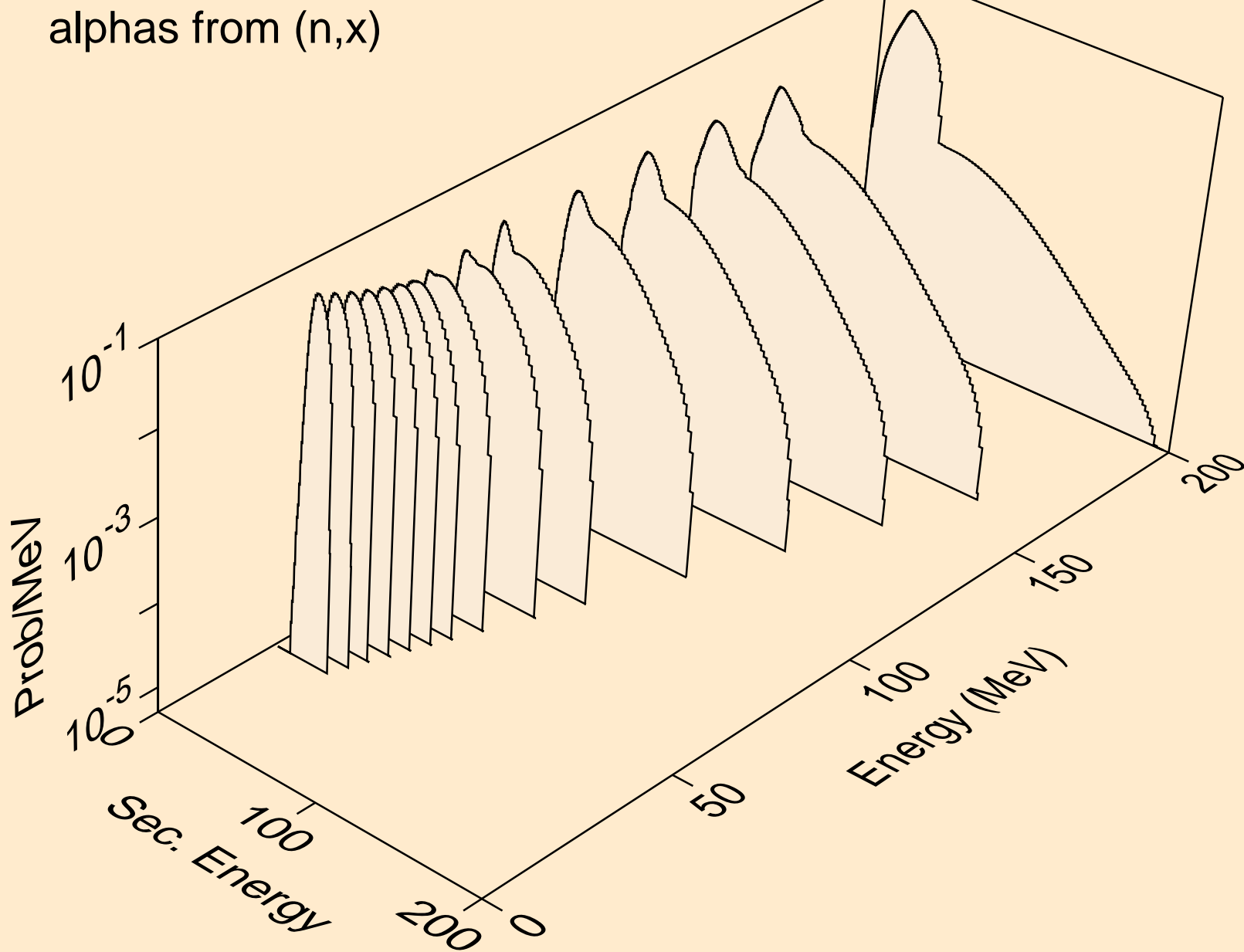




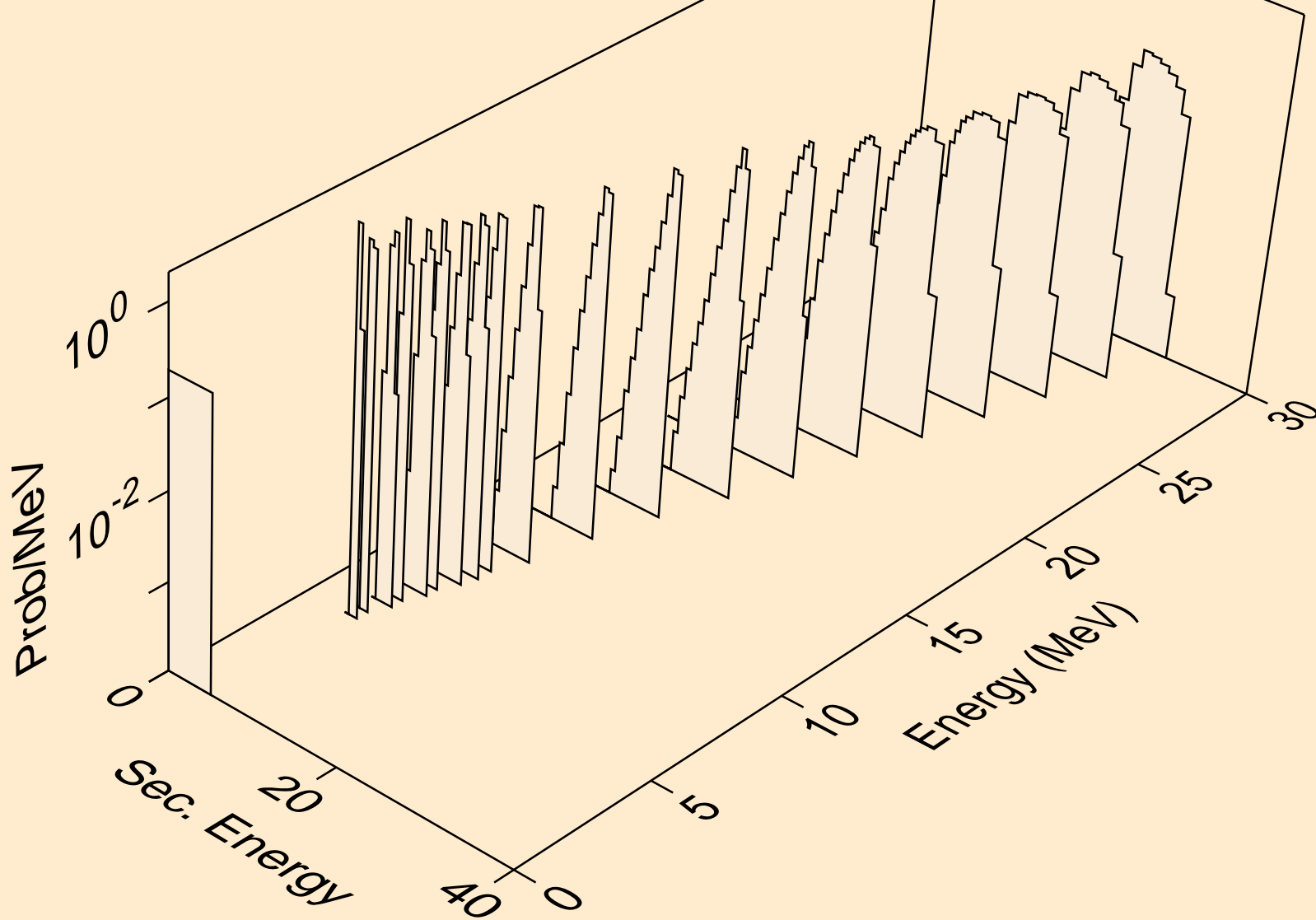
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he3s from (n,he3)



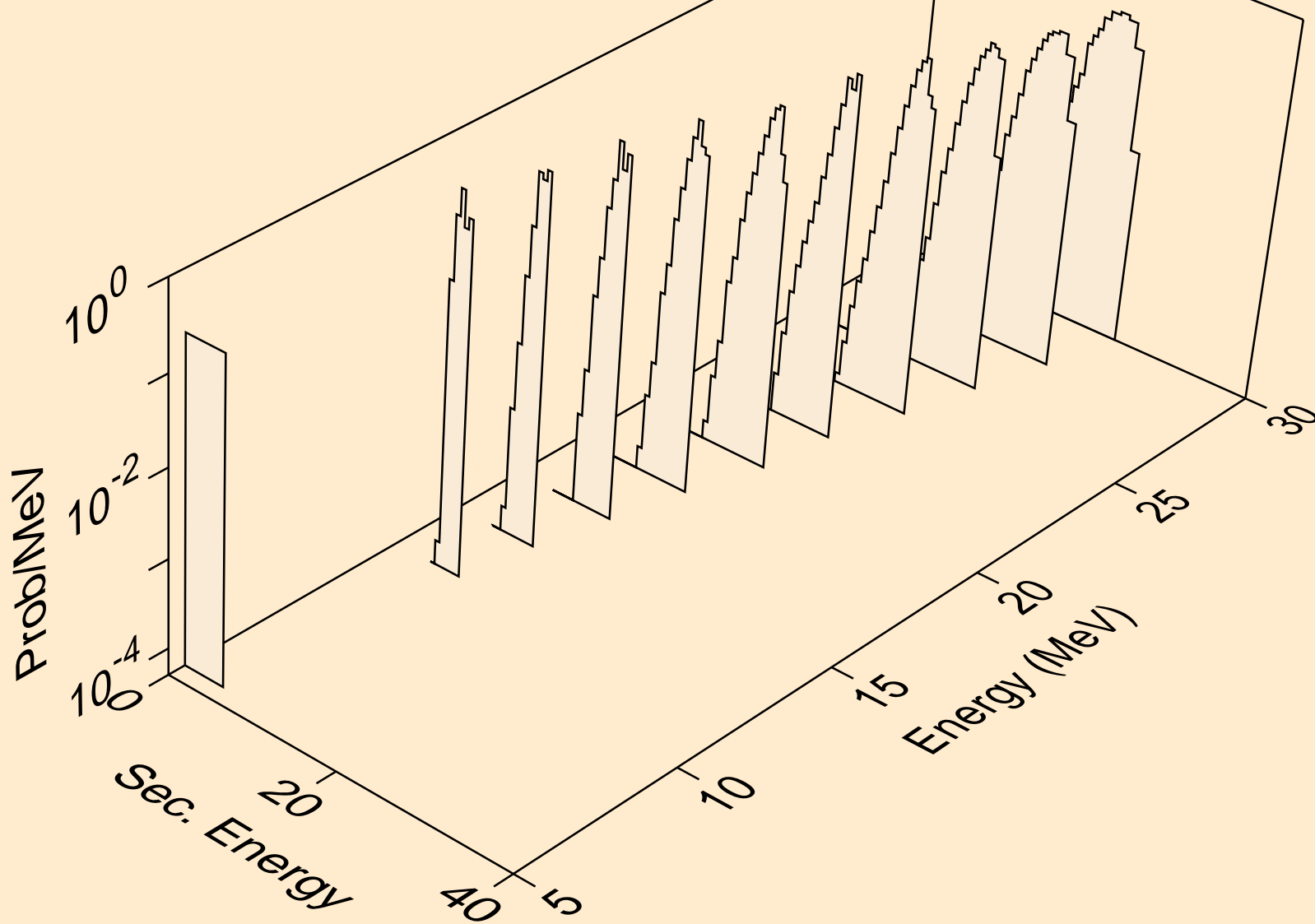
HF184 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
alphas from (n,x)



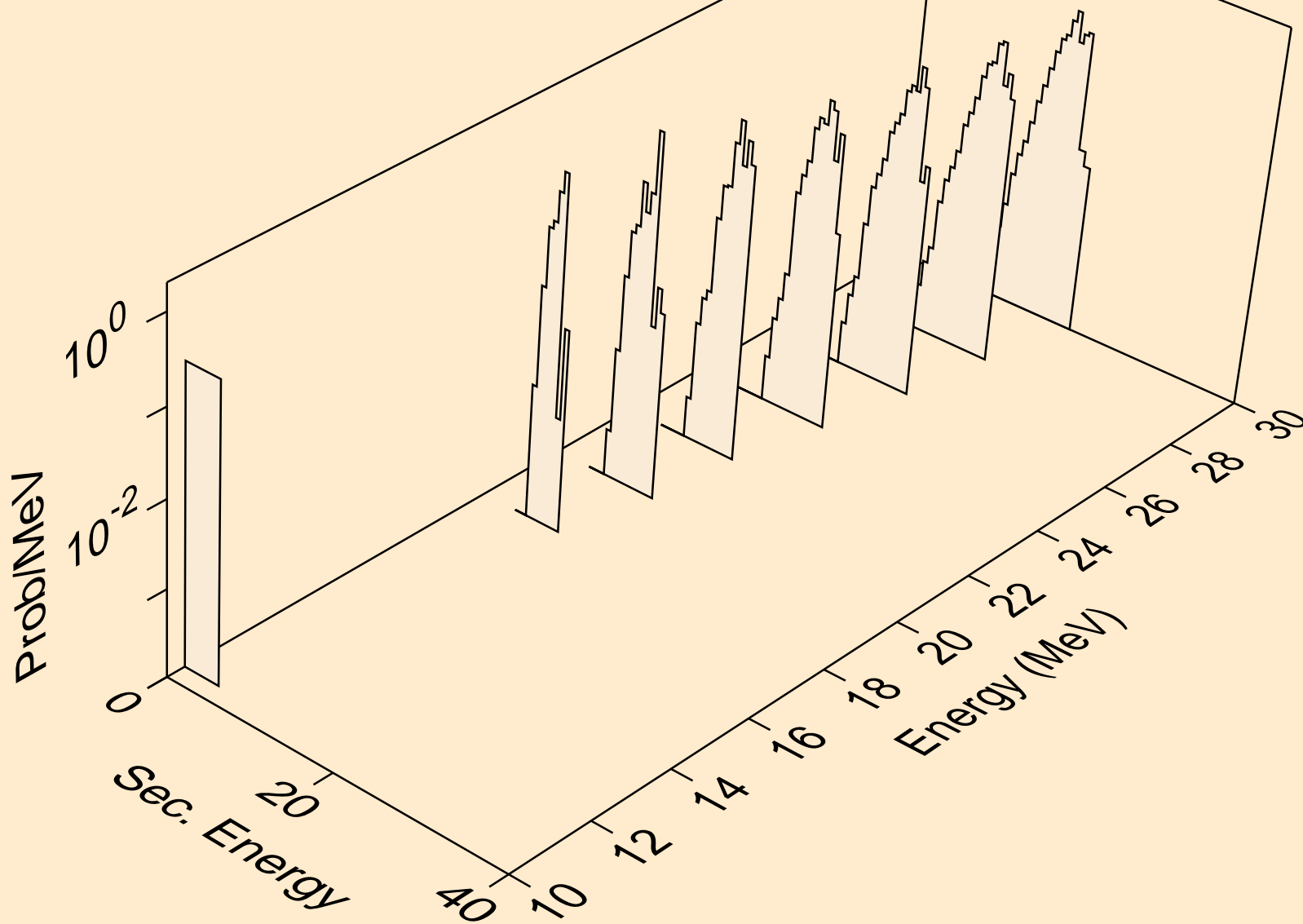
HF184 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
alphas from (n,n\*)a



HF184 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
alphas from (n,2n)a



HF184 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
alphas from (n,3n)a



HF184 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
alphas from (n,a)

