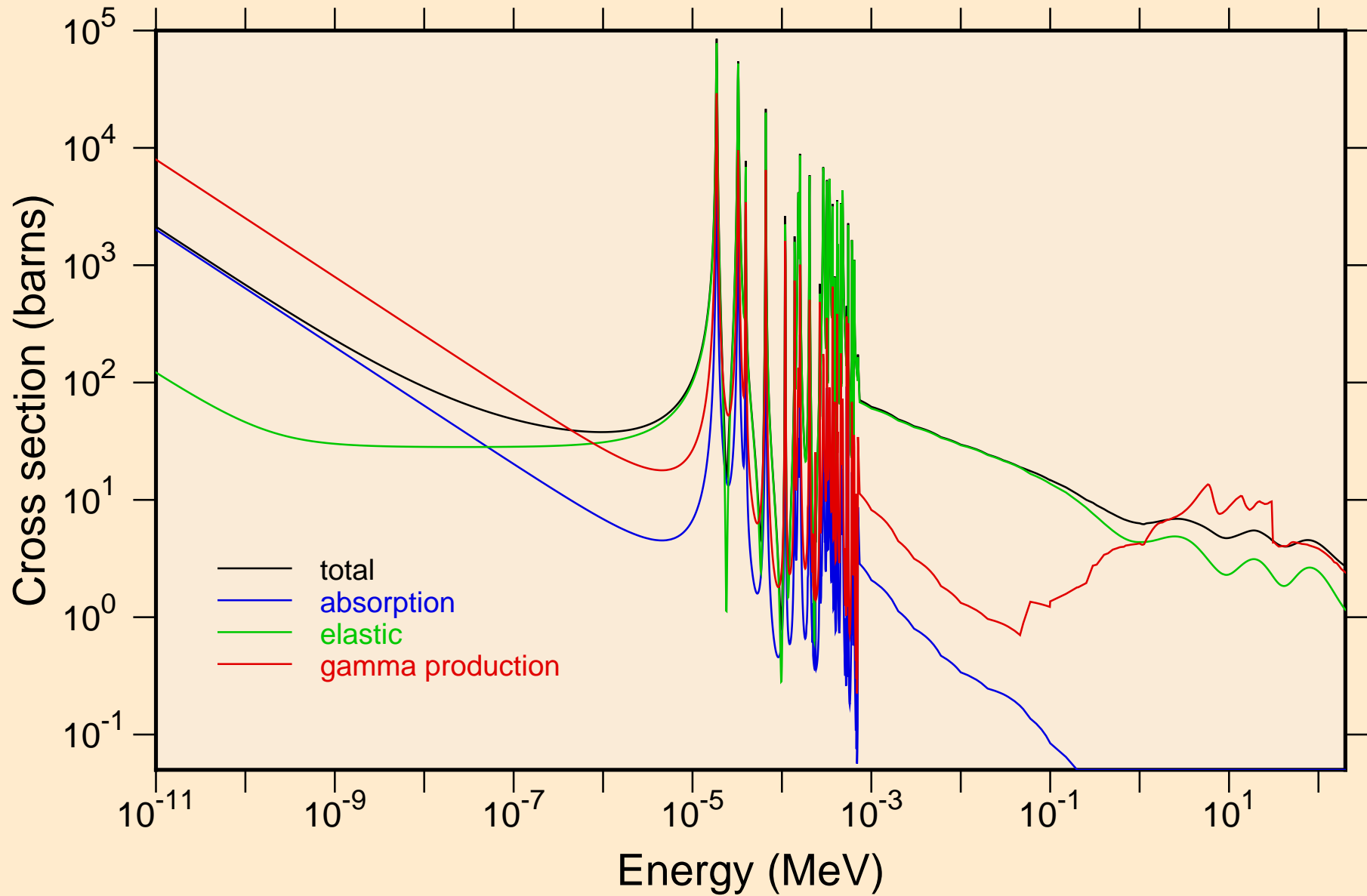
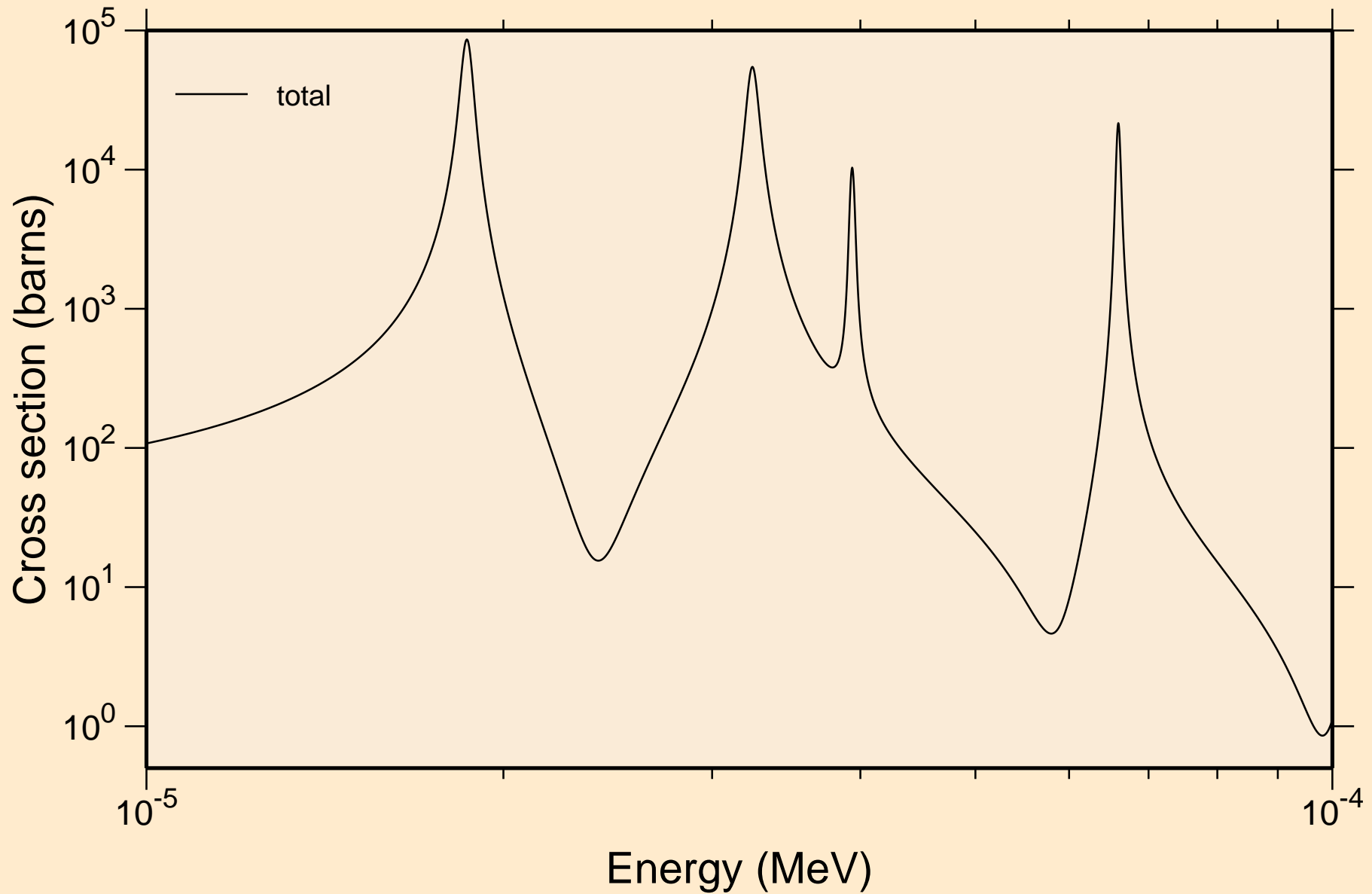


# HF181 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K

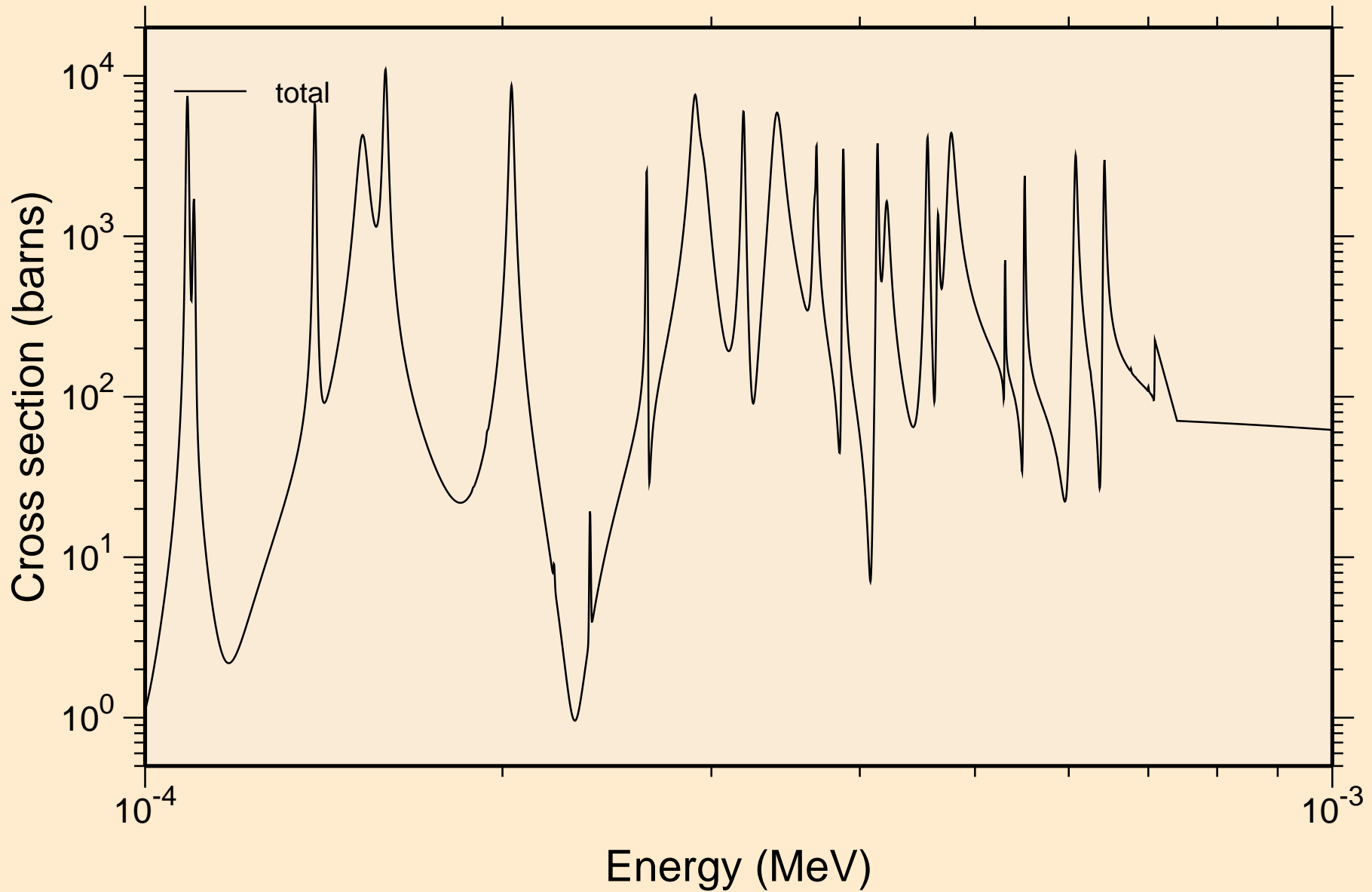
## Principal cross sections



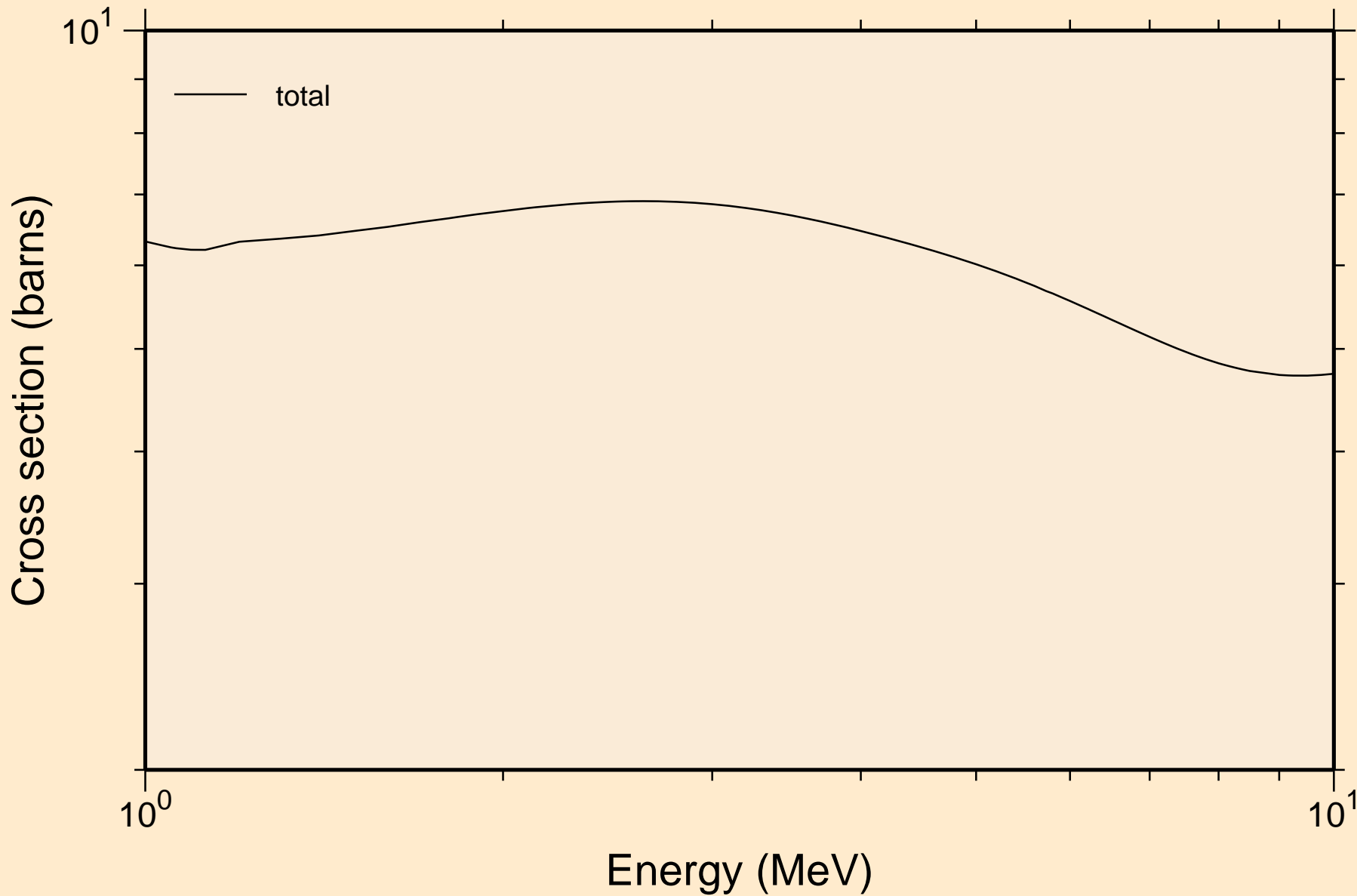
HF181 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
resonance total cross section



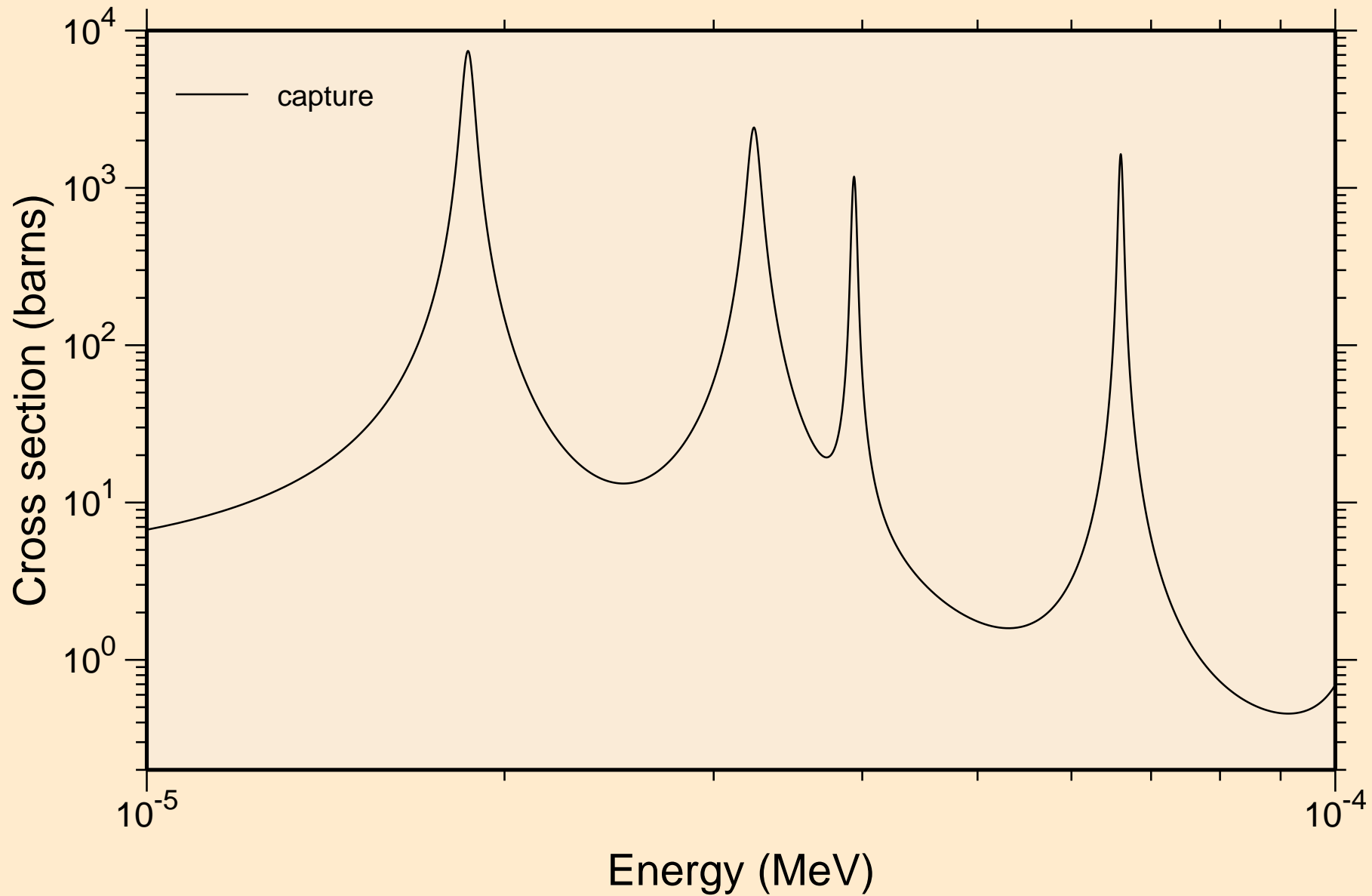
HF181 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
resonance total cross section



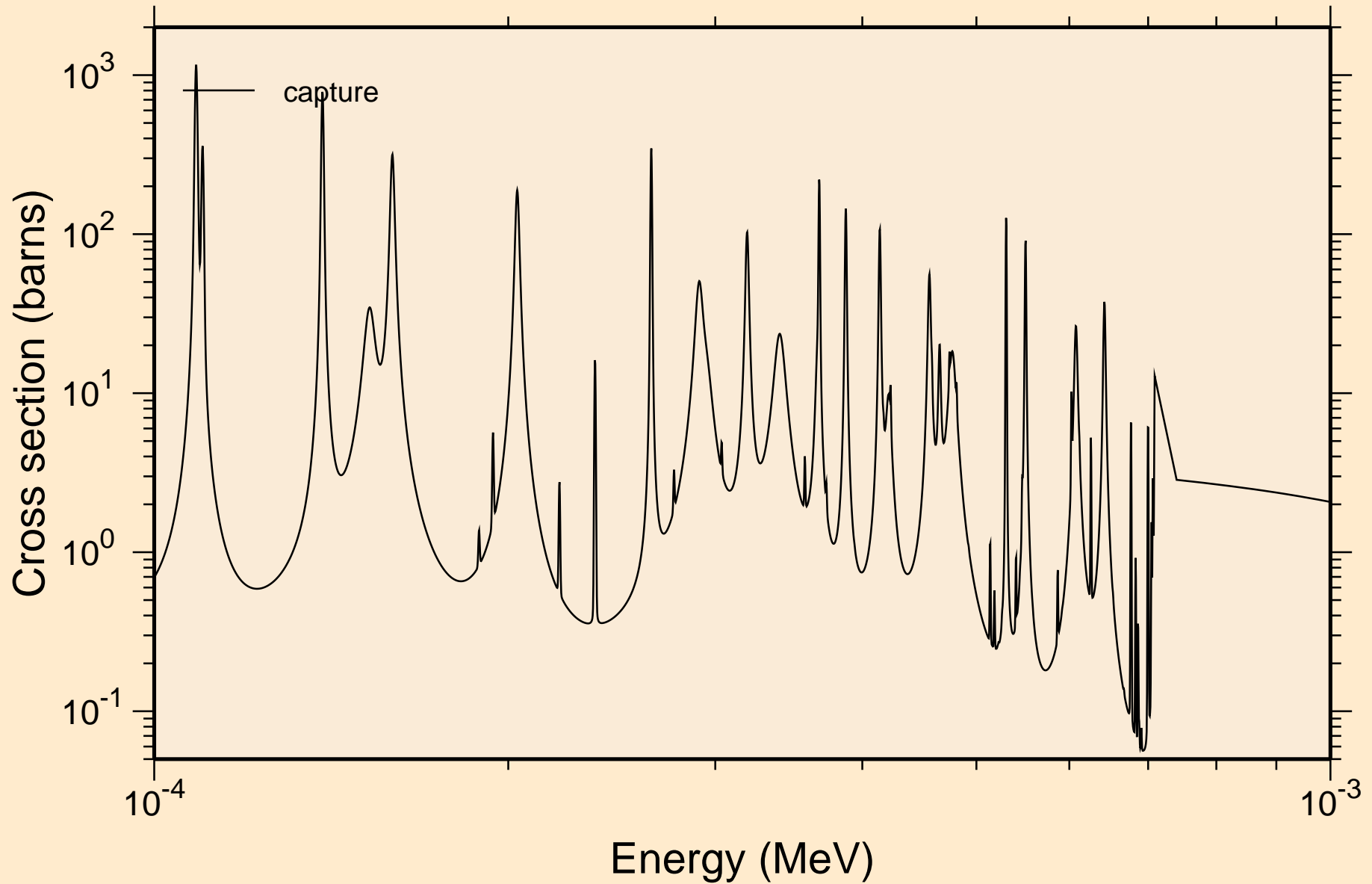
HF181 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
resonance total cross section



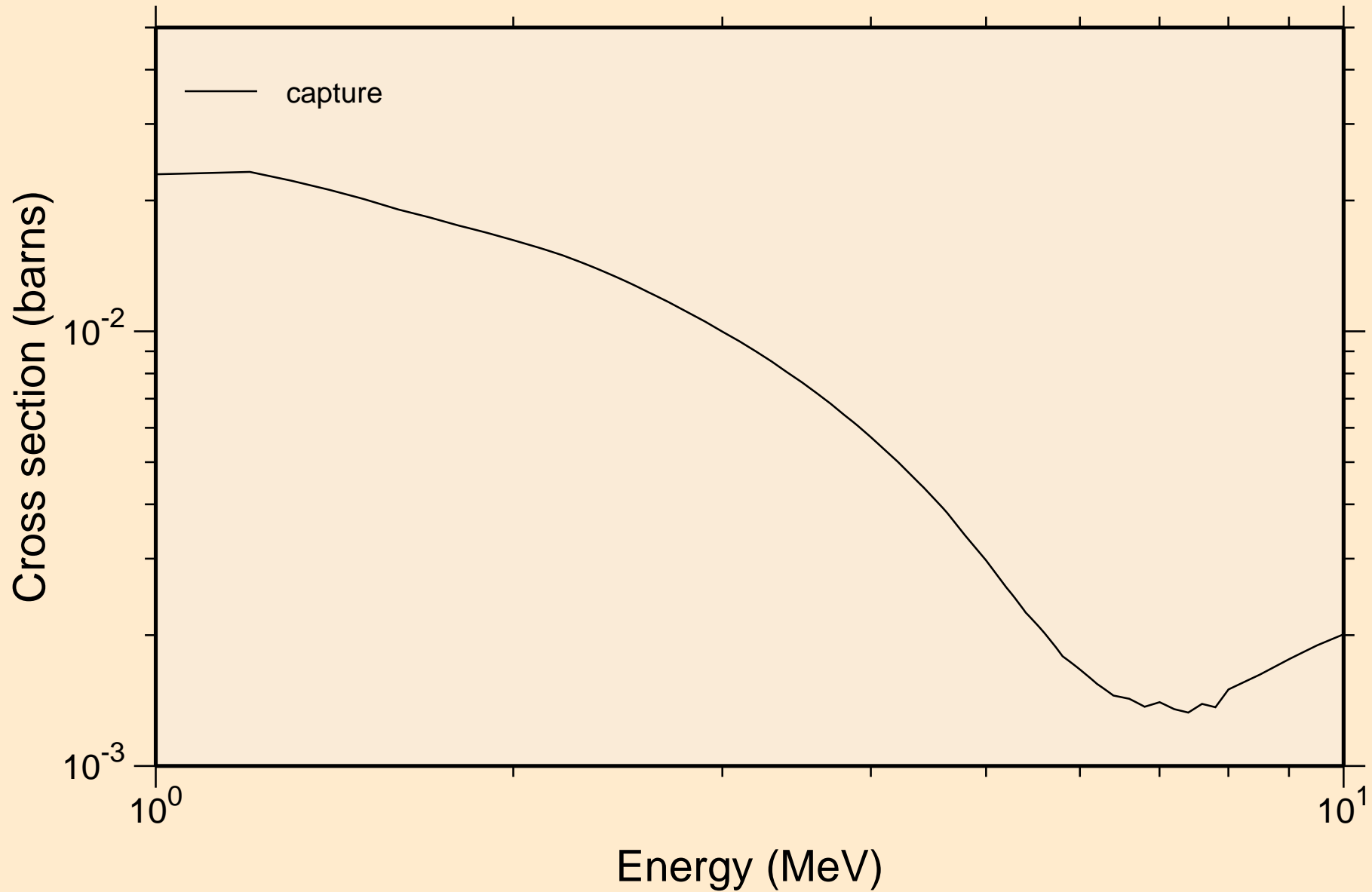
HF181 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
resonance absorption cross sections



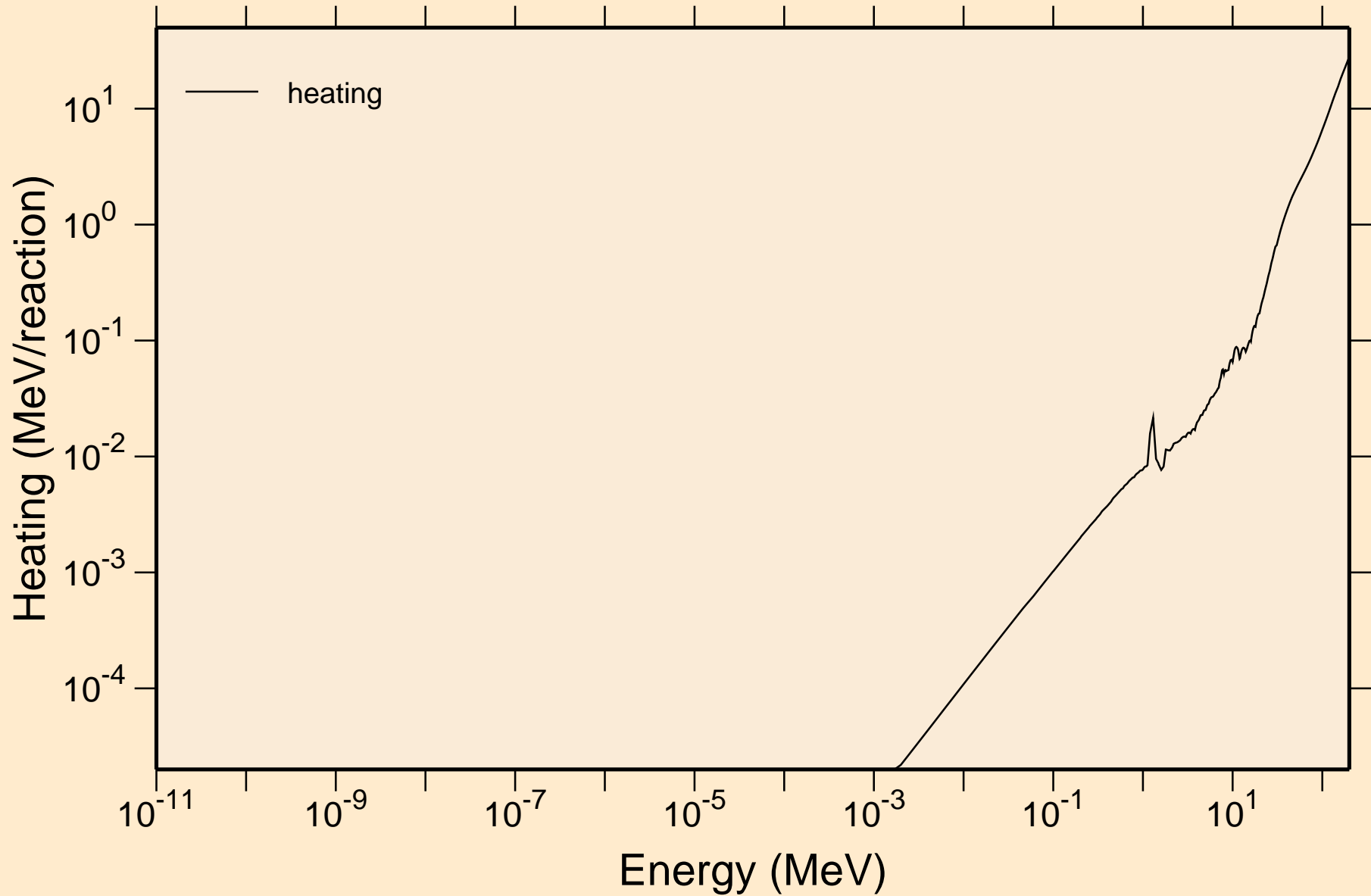
HF181 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
resonance absorption cross sections



HF181 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
resonance absorption cross sections

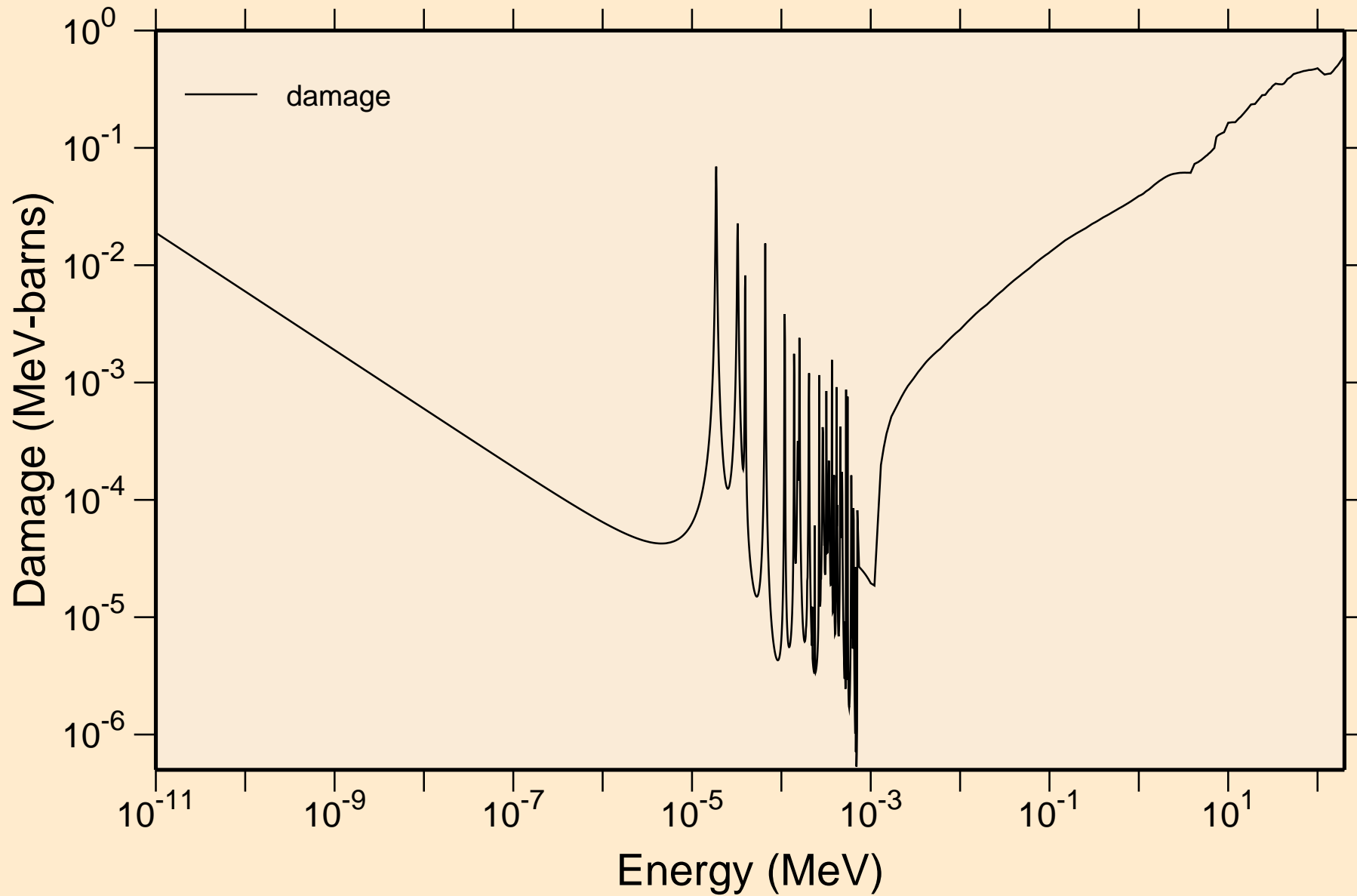


HF181 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Heating



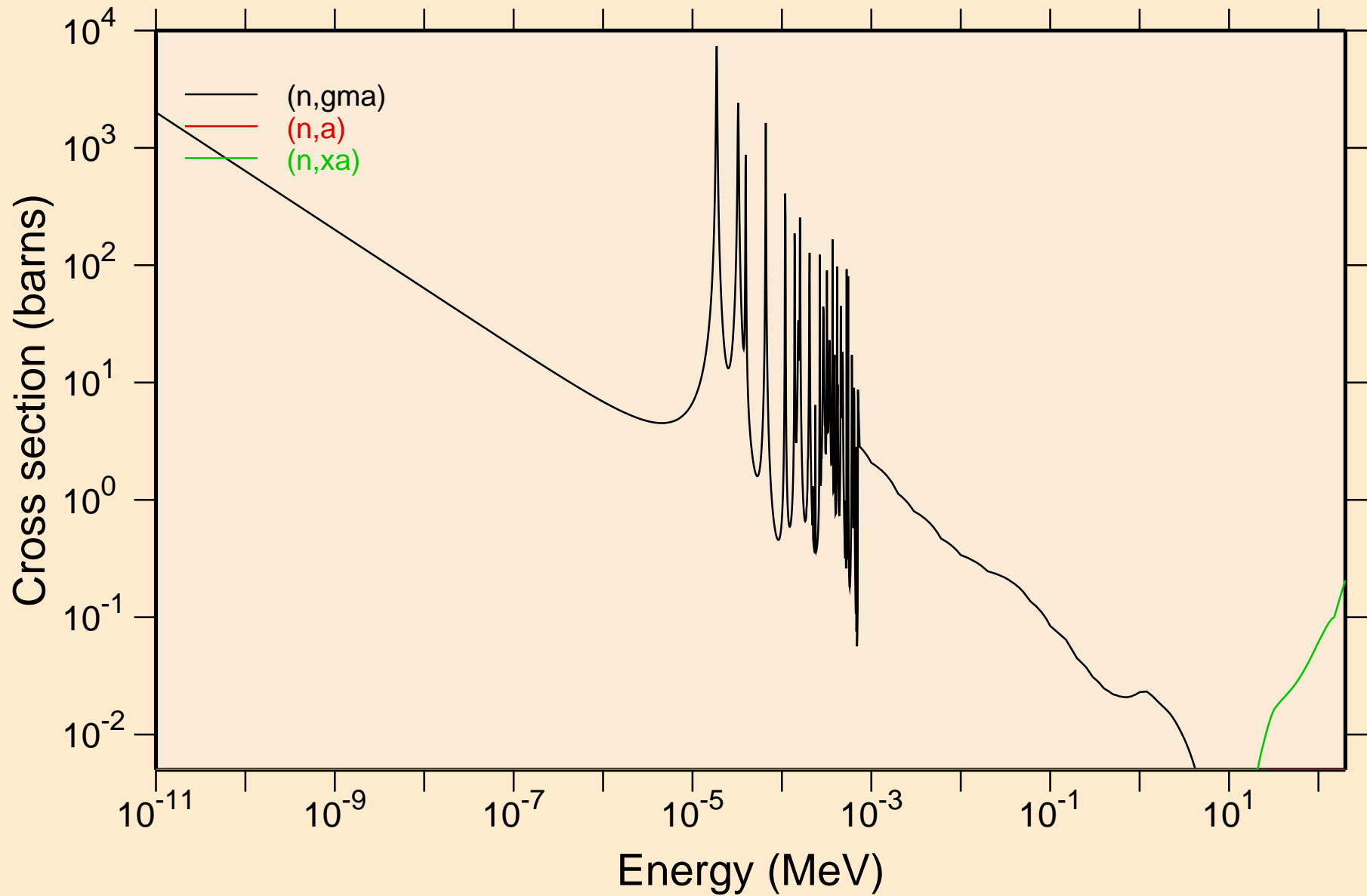
# HF181 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K

## Damage



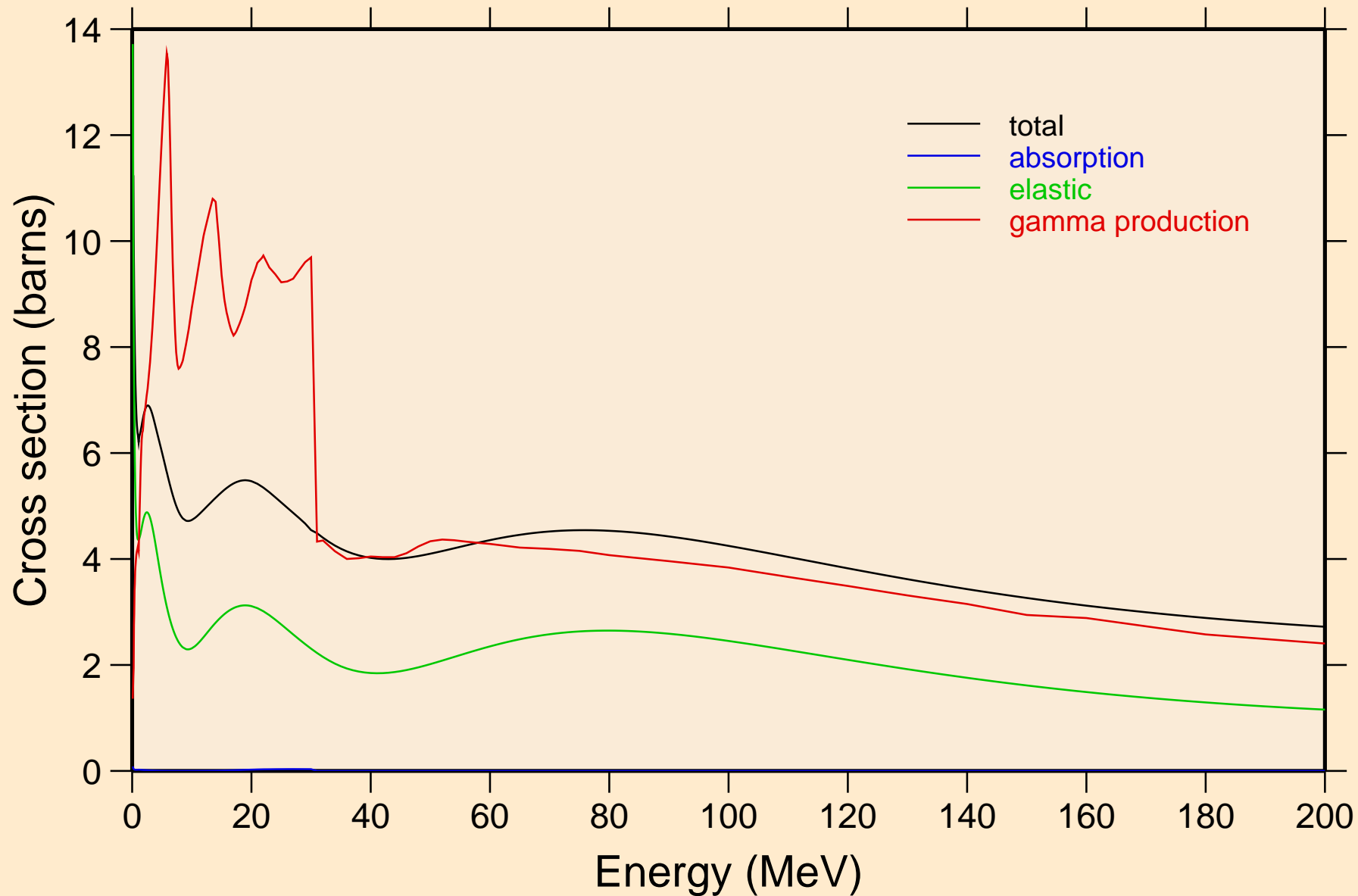
# HF181 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K

## Non-threshold reactions

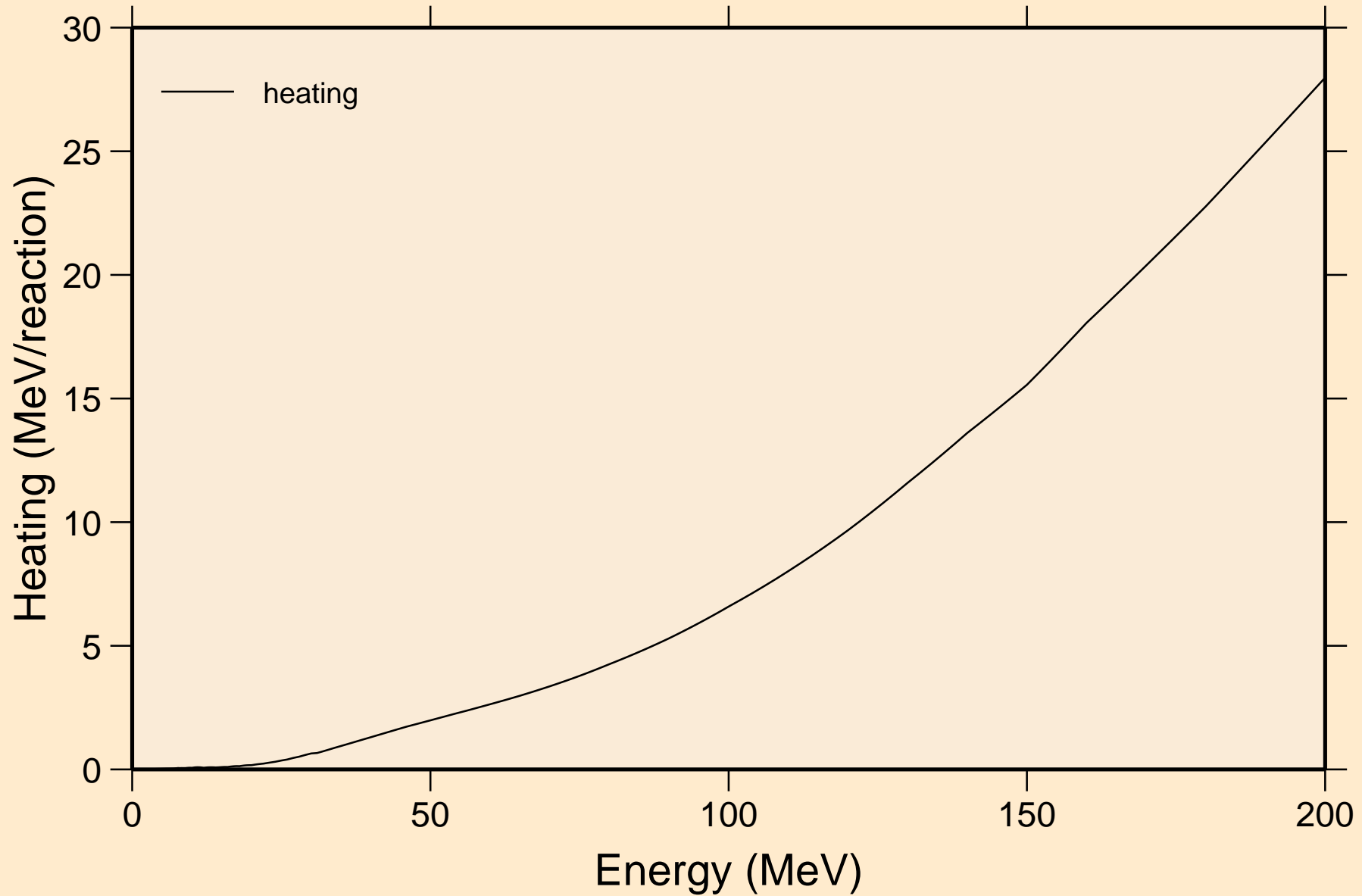


# HF181 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K

## Principal cross sections

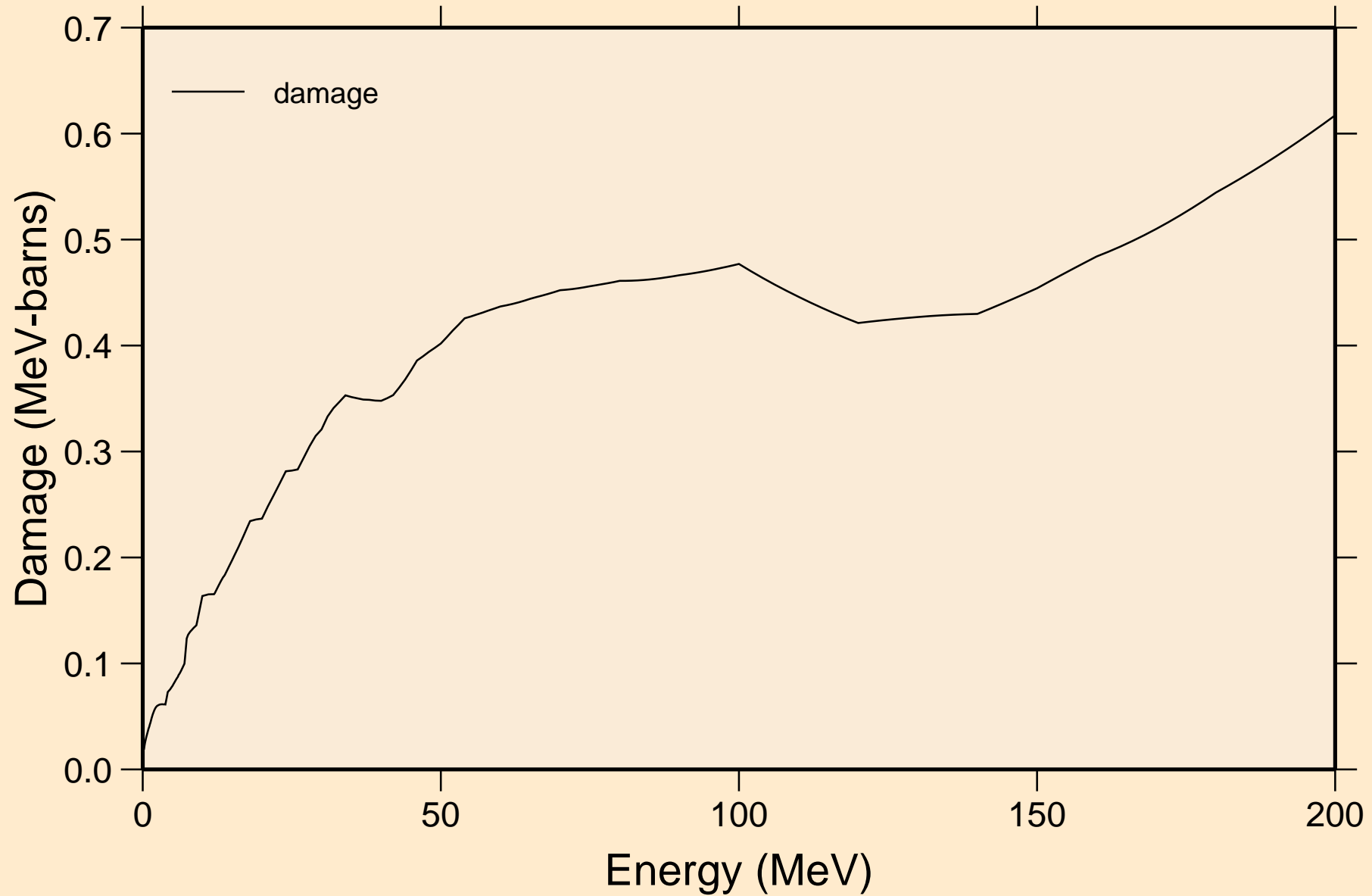


HF181 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Heating

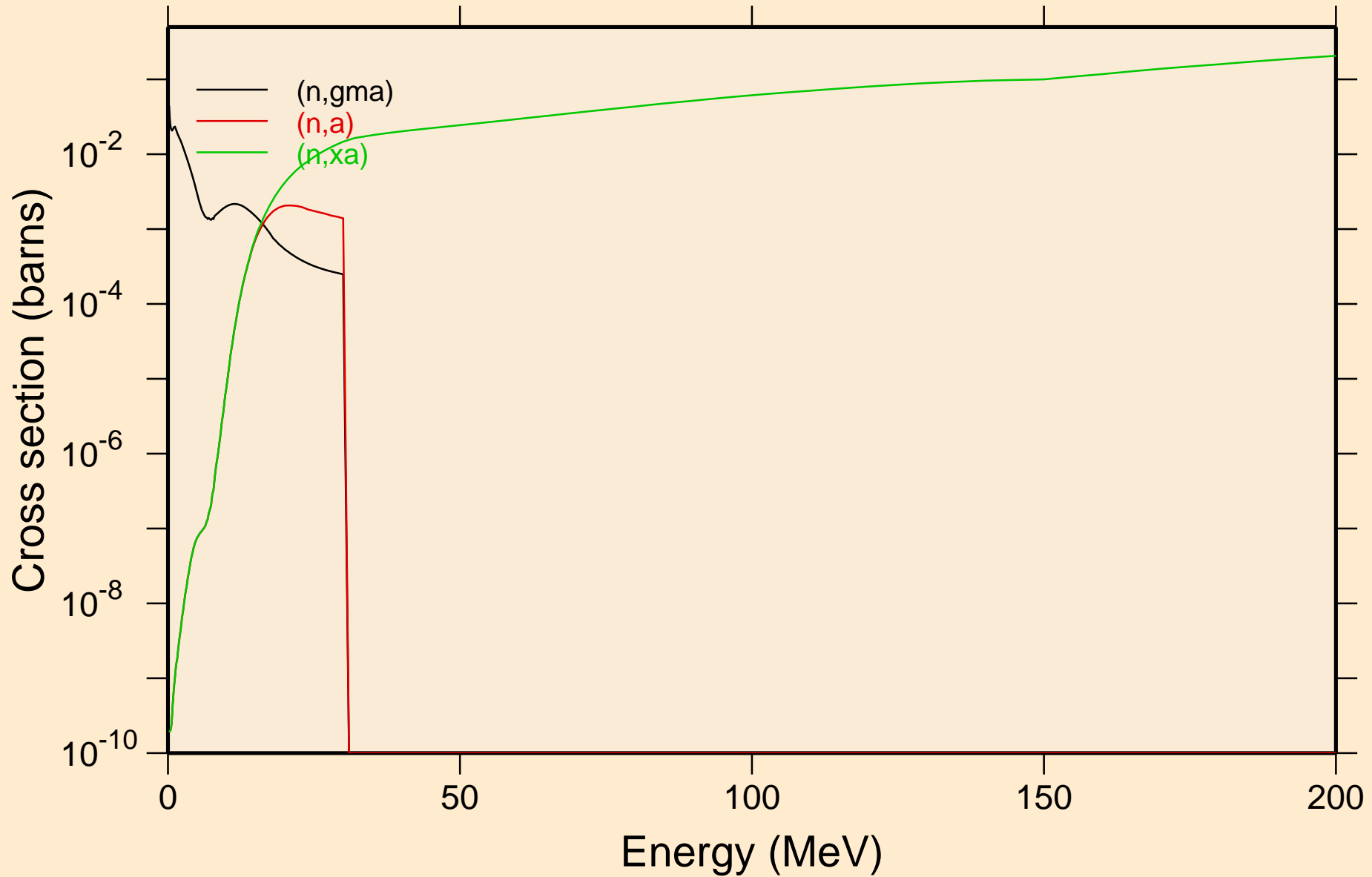


# HF181 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K

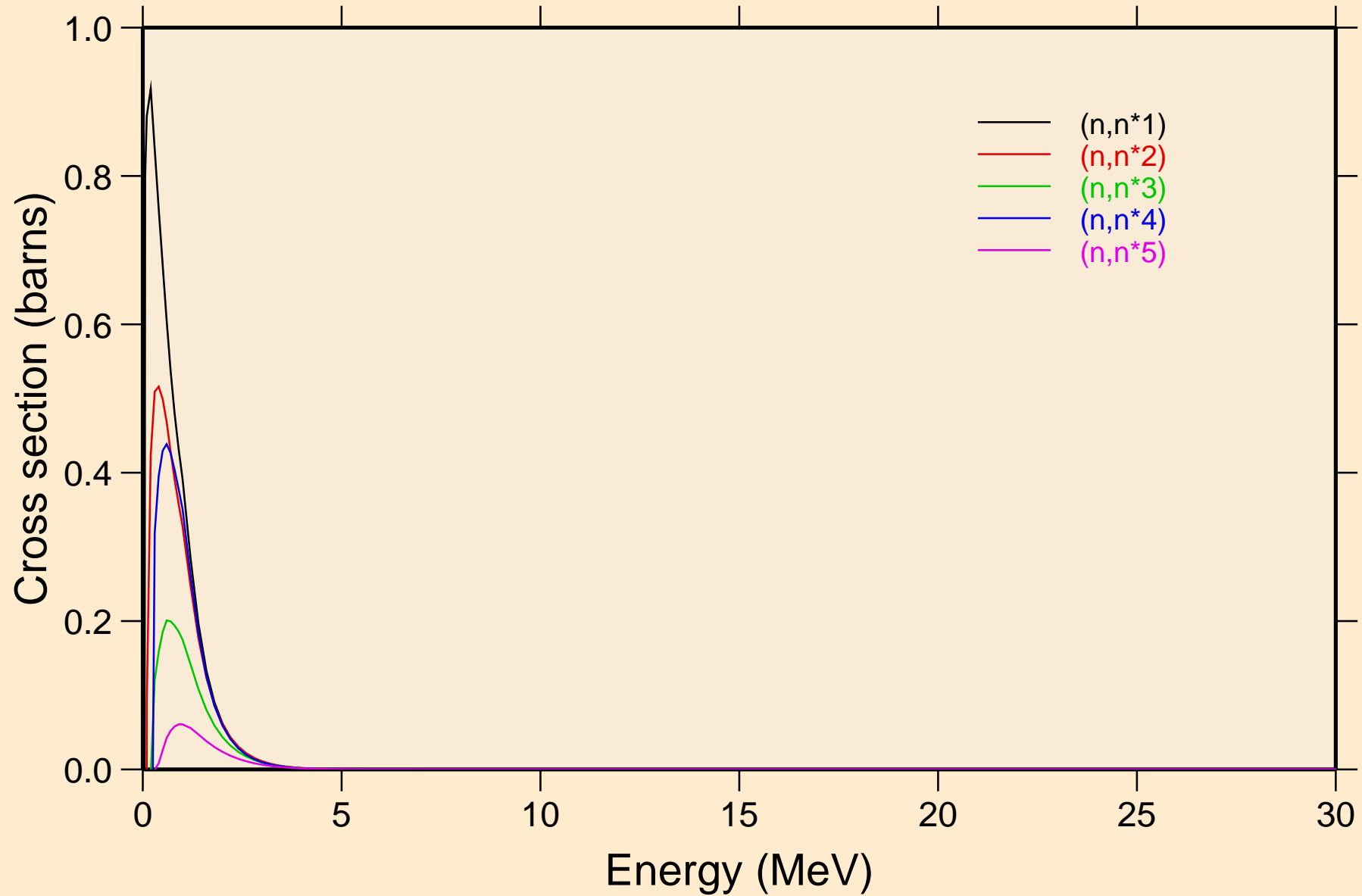
## Damage



HF181 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Non-threshold reactions

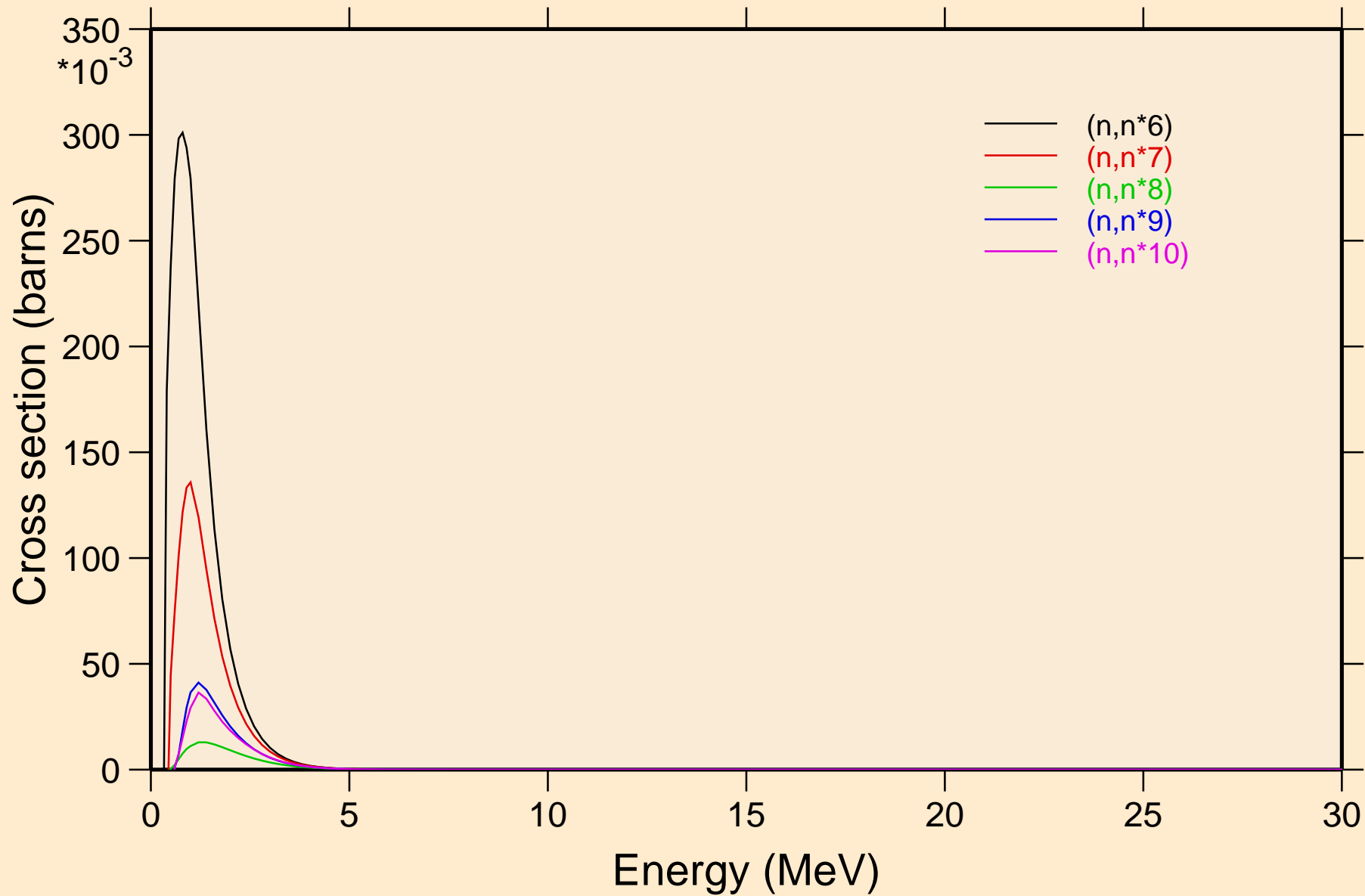


HF181 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Inelastic levels



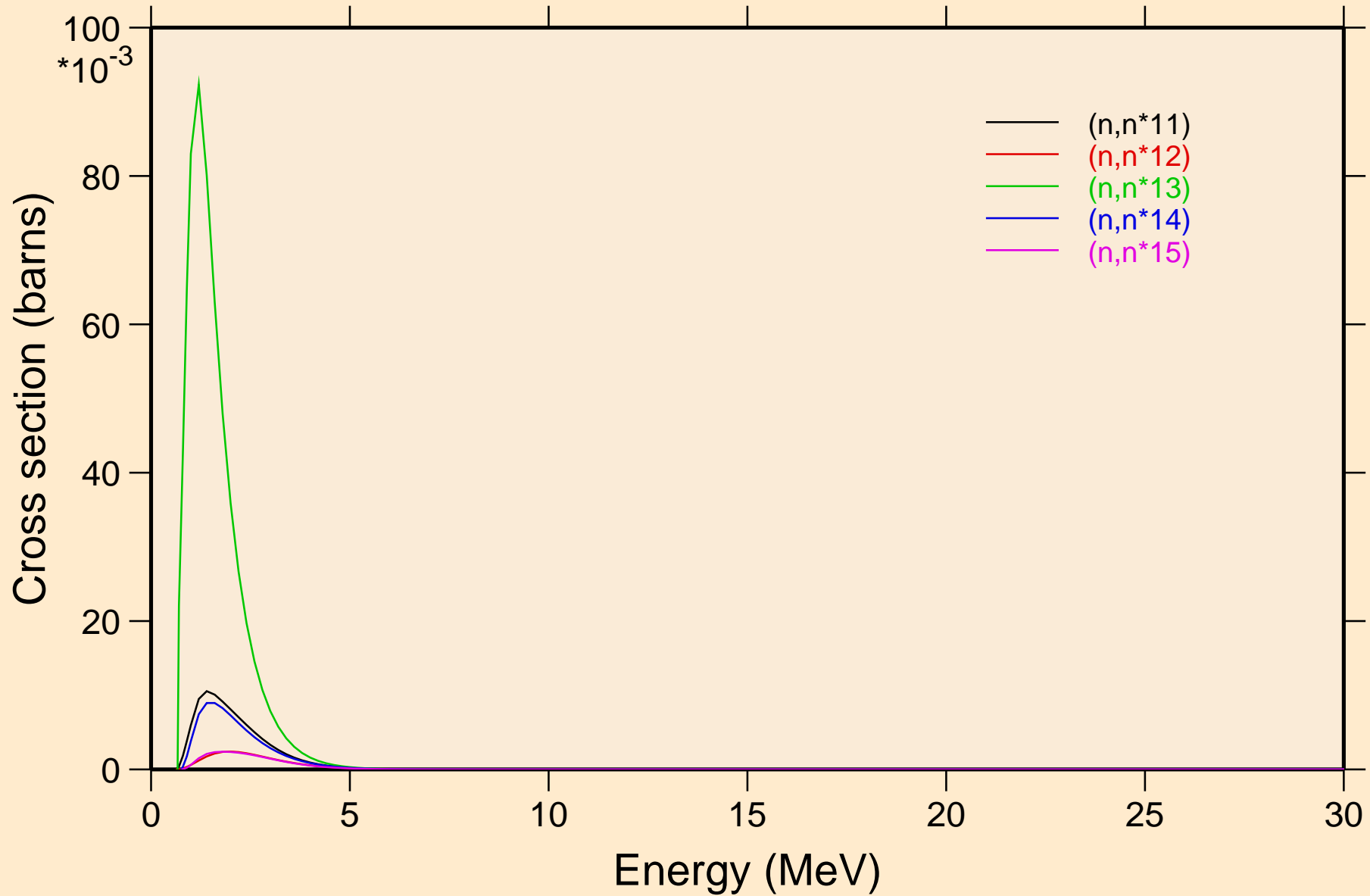
# HF181 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K

## Inelastic levels

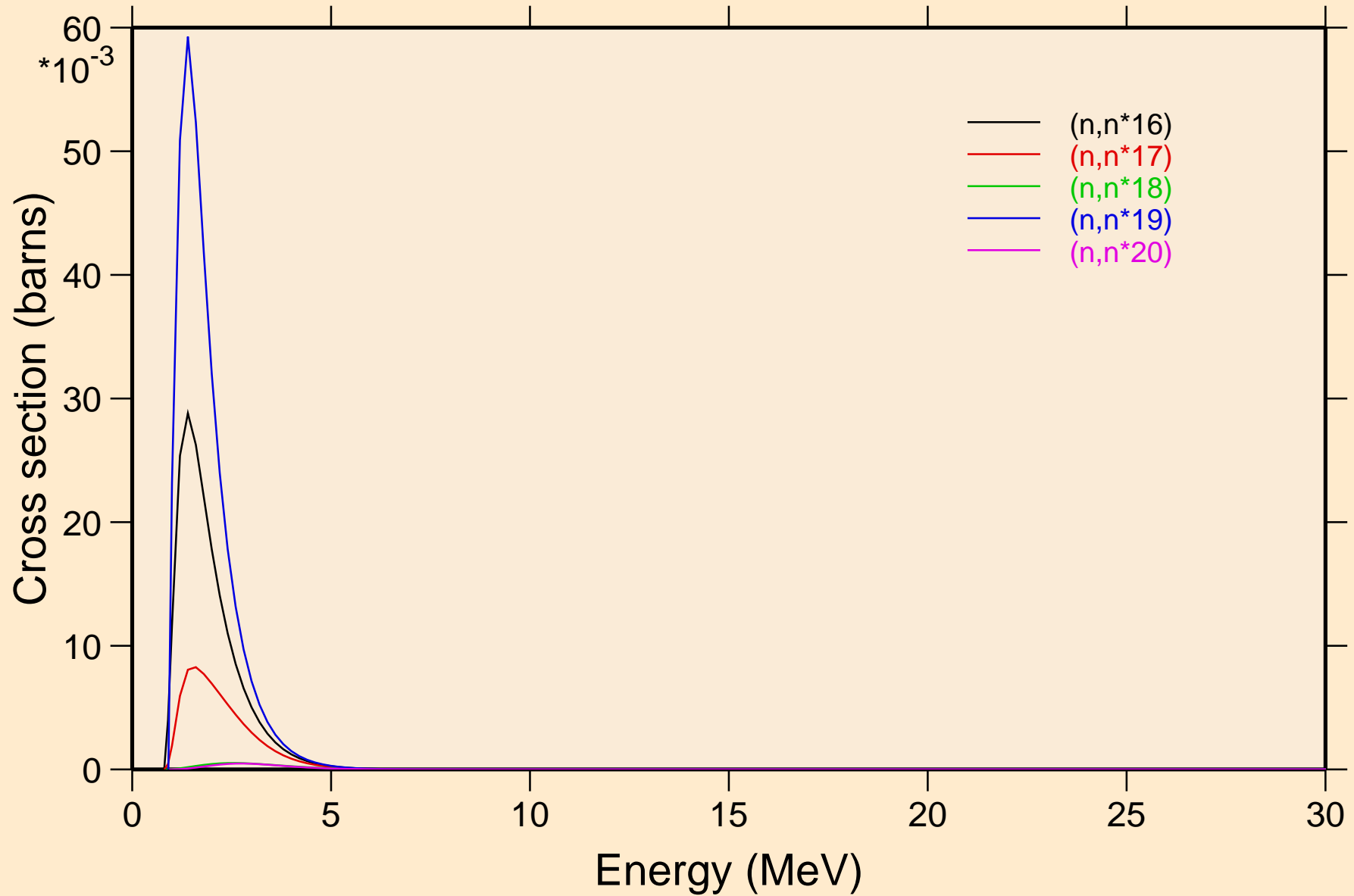


# HF181 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K

## Inelastic levels

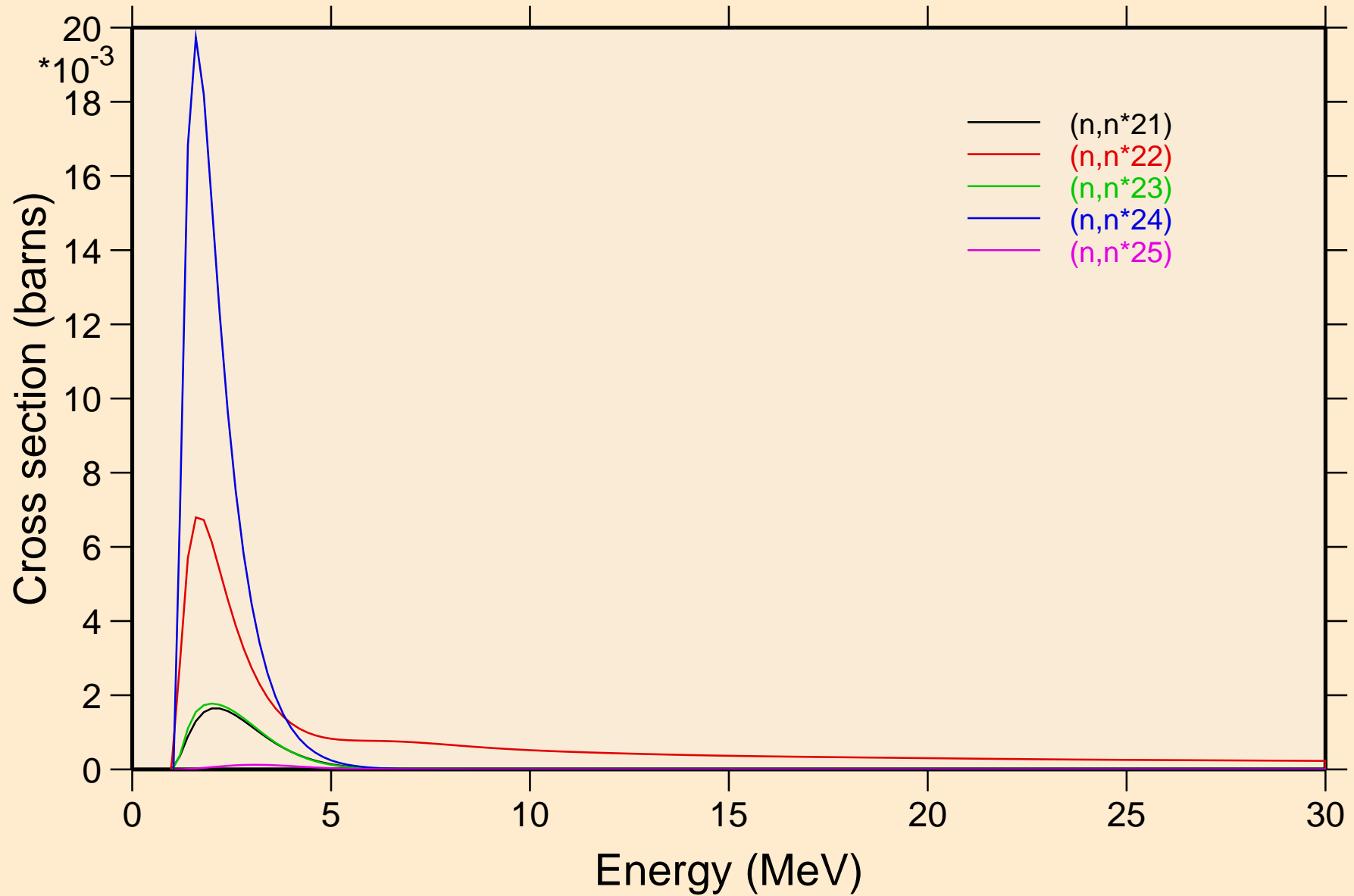


HF181 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Inelastic levels

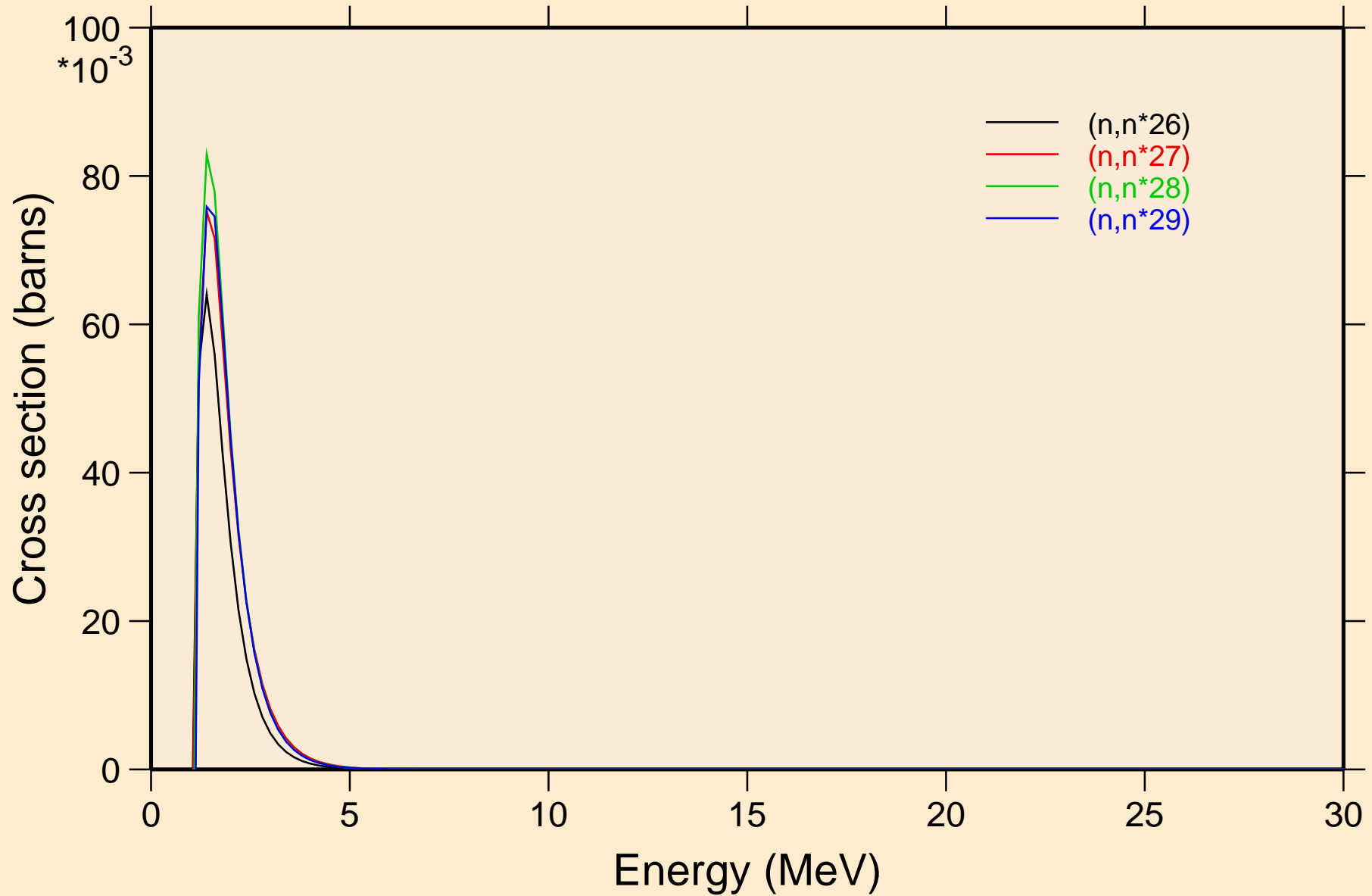


# HF181 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K

## Inelastic levels

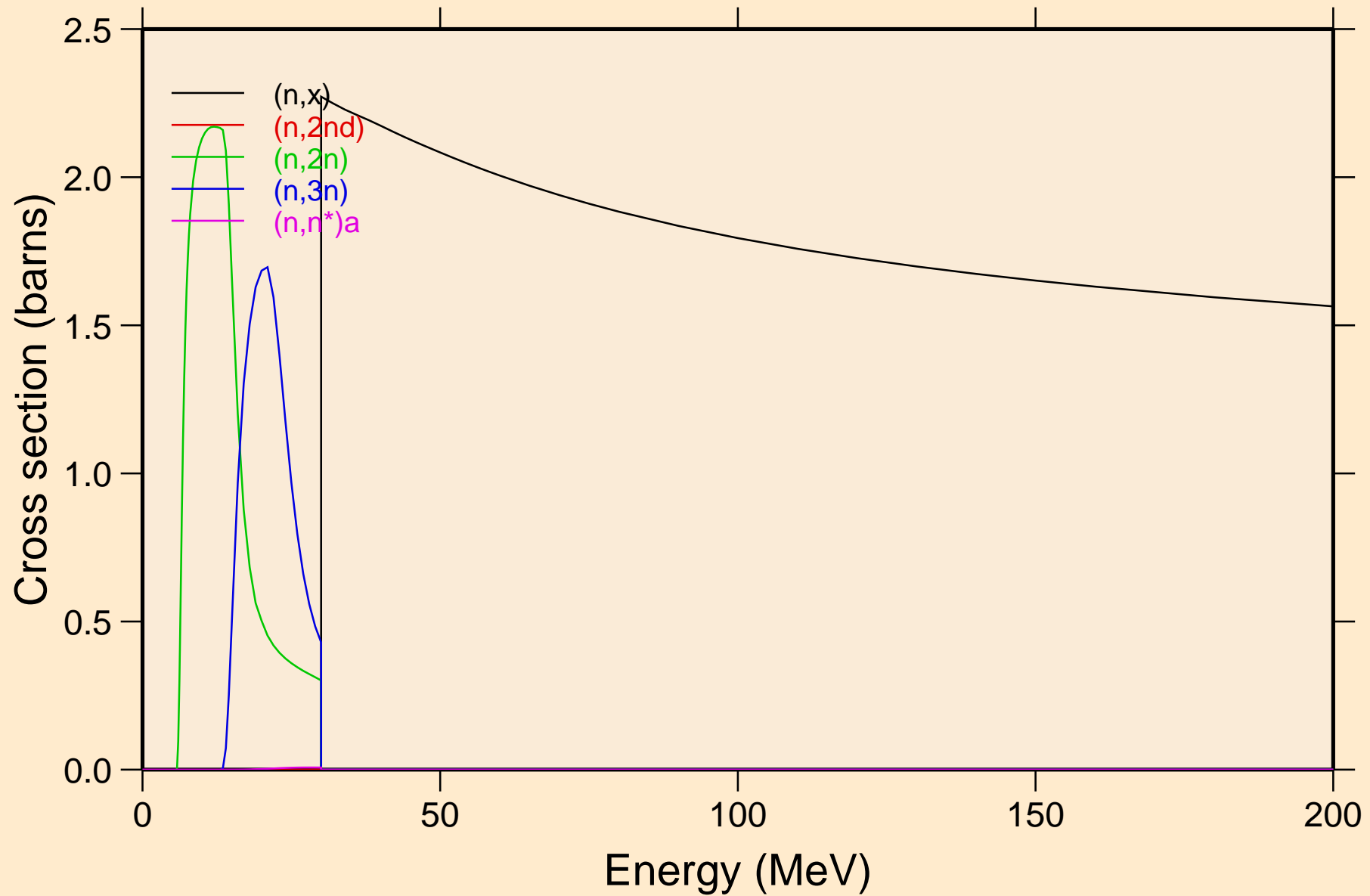


HF181 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Inelastic levels



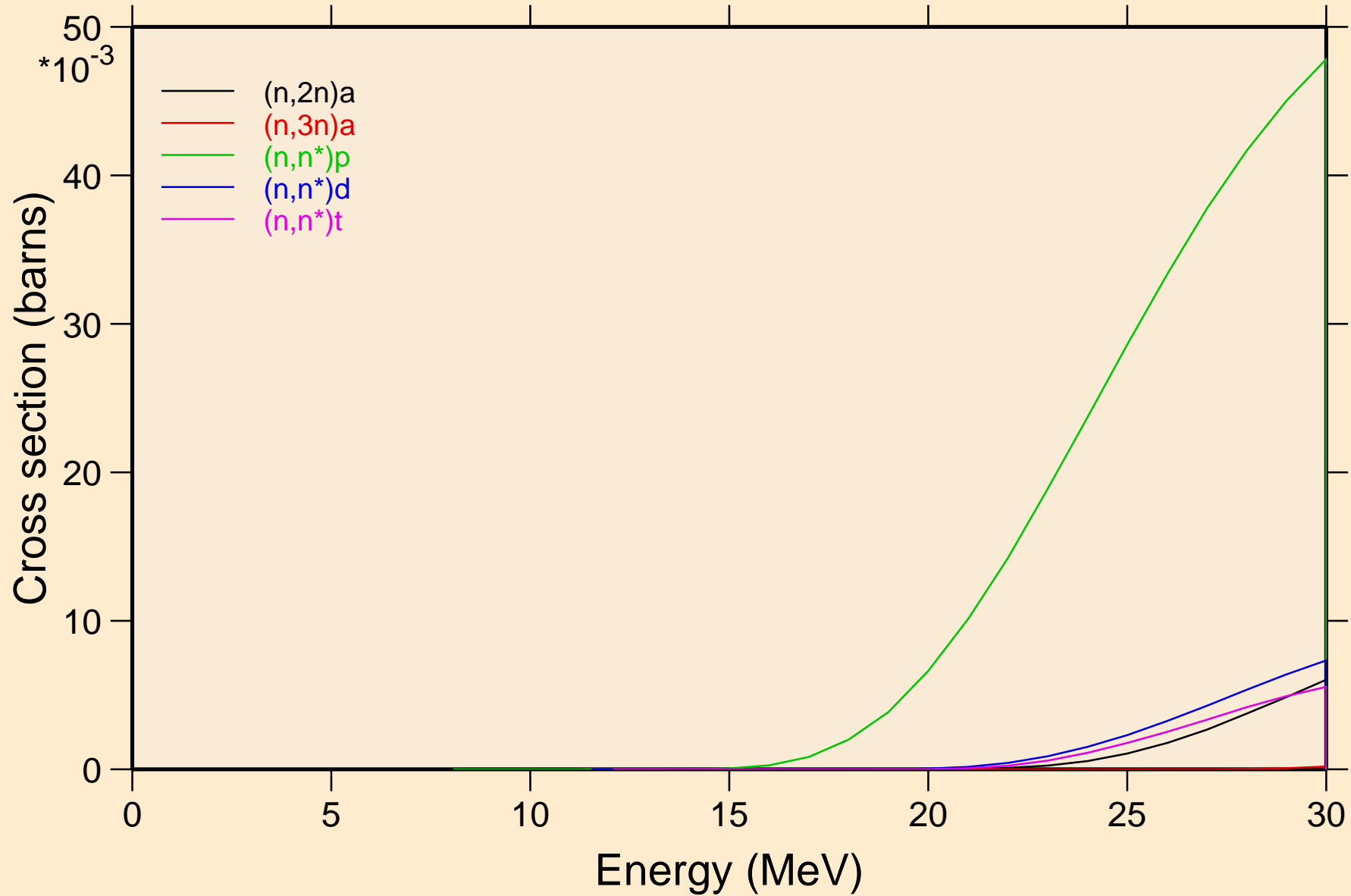
# HF181 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K

## Threshold reactions



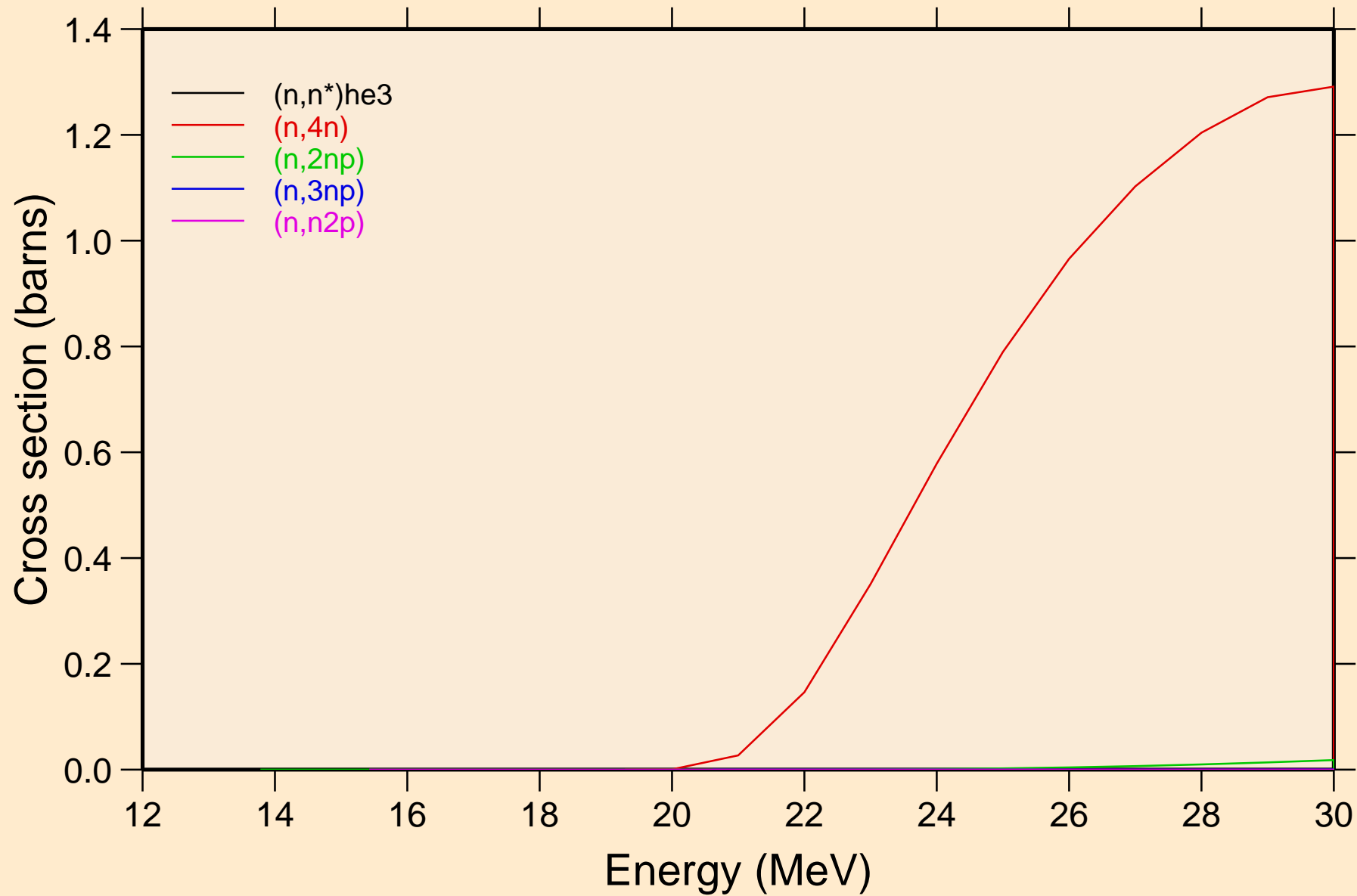
# HF181 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K

## Threshold reactions

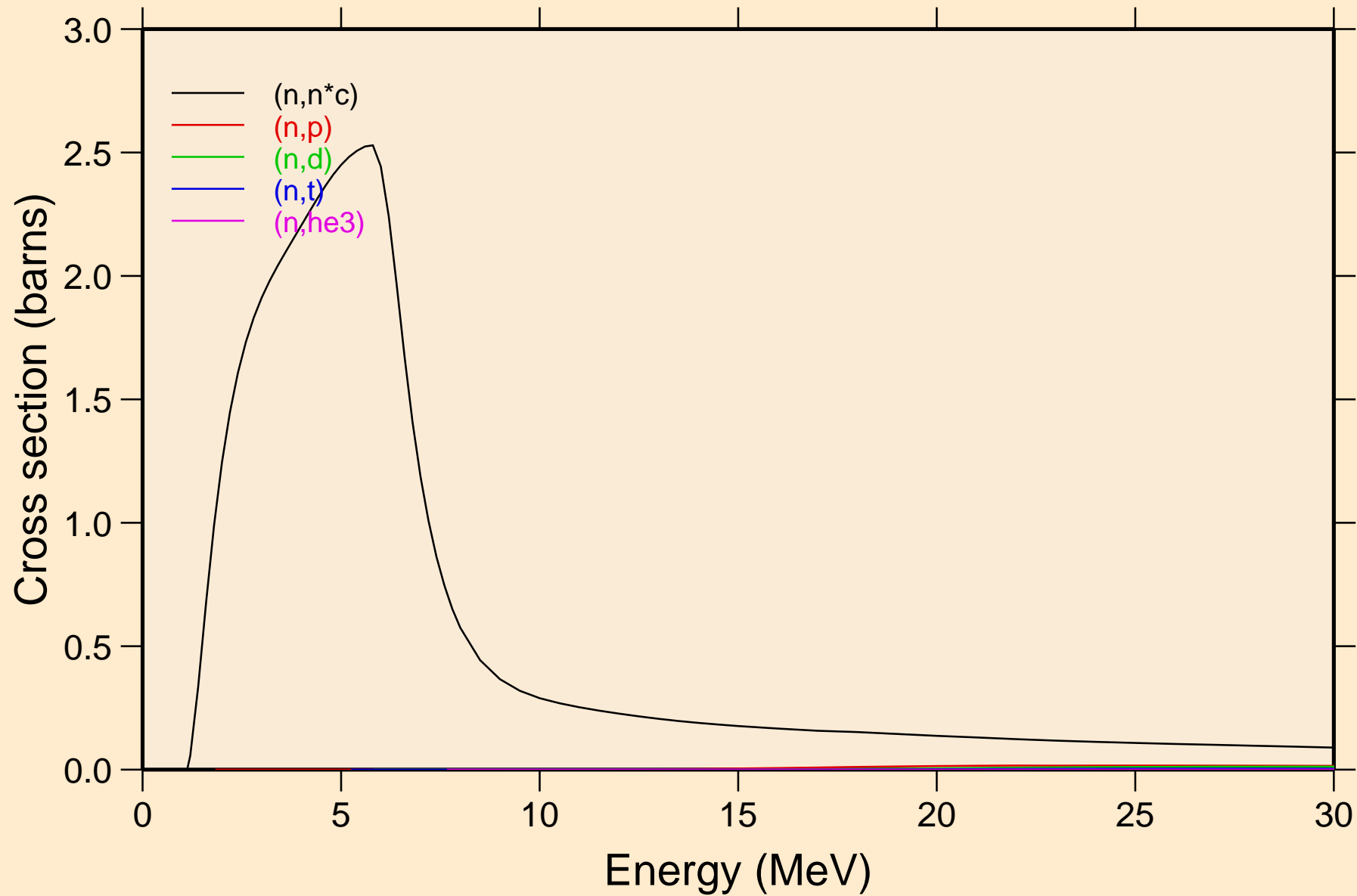


# HF181 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K

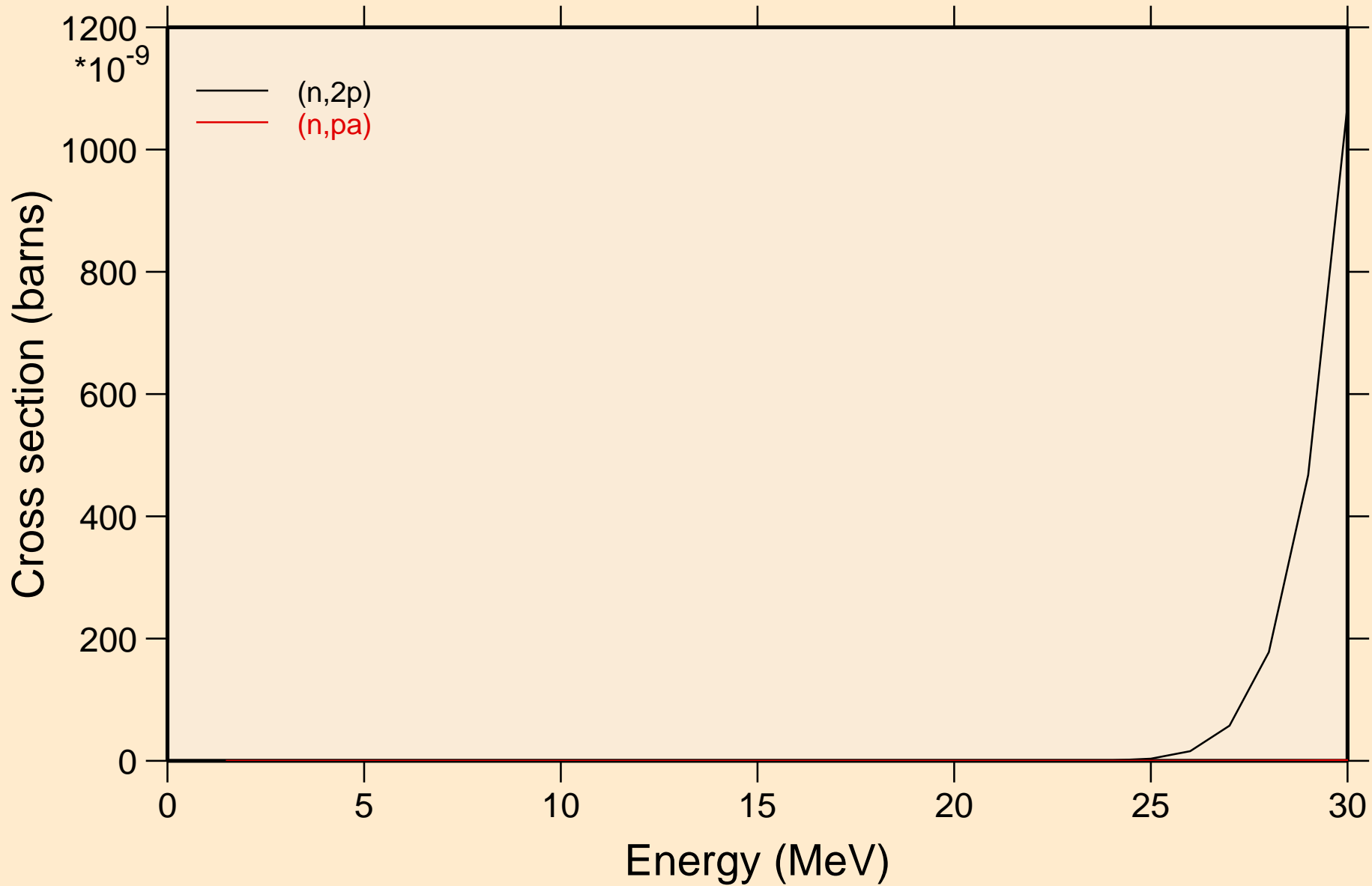
## Threshold reactions



HF181 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Threshold reactions

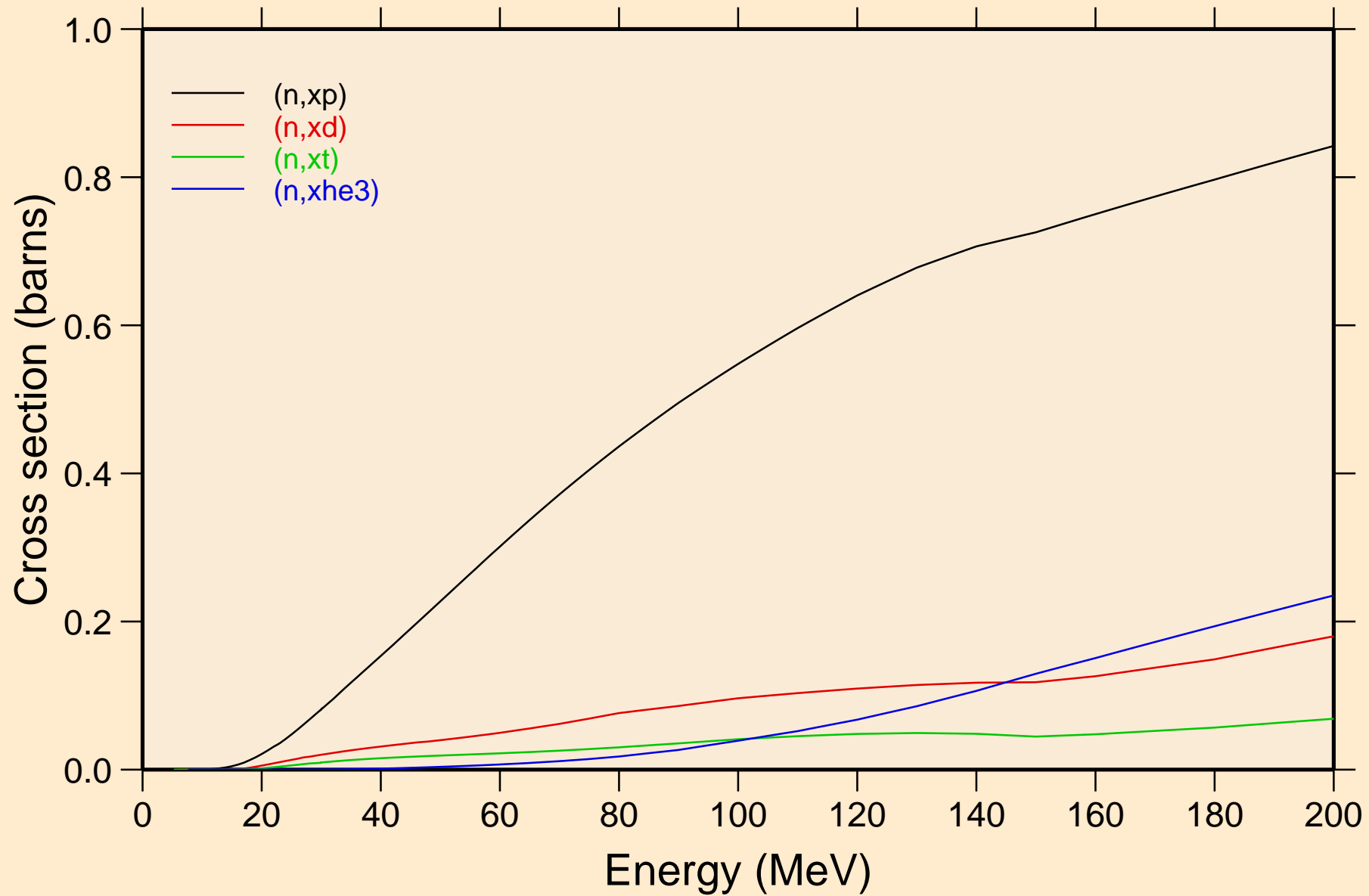


HF181 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Threshold reactions

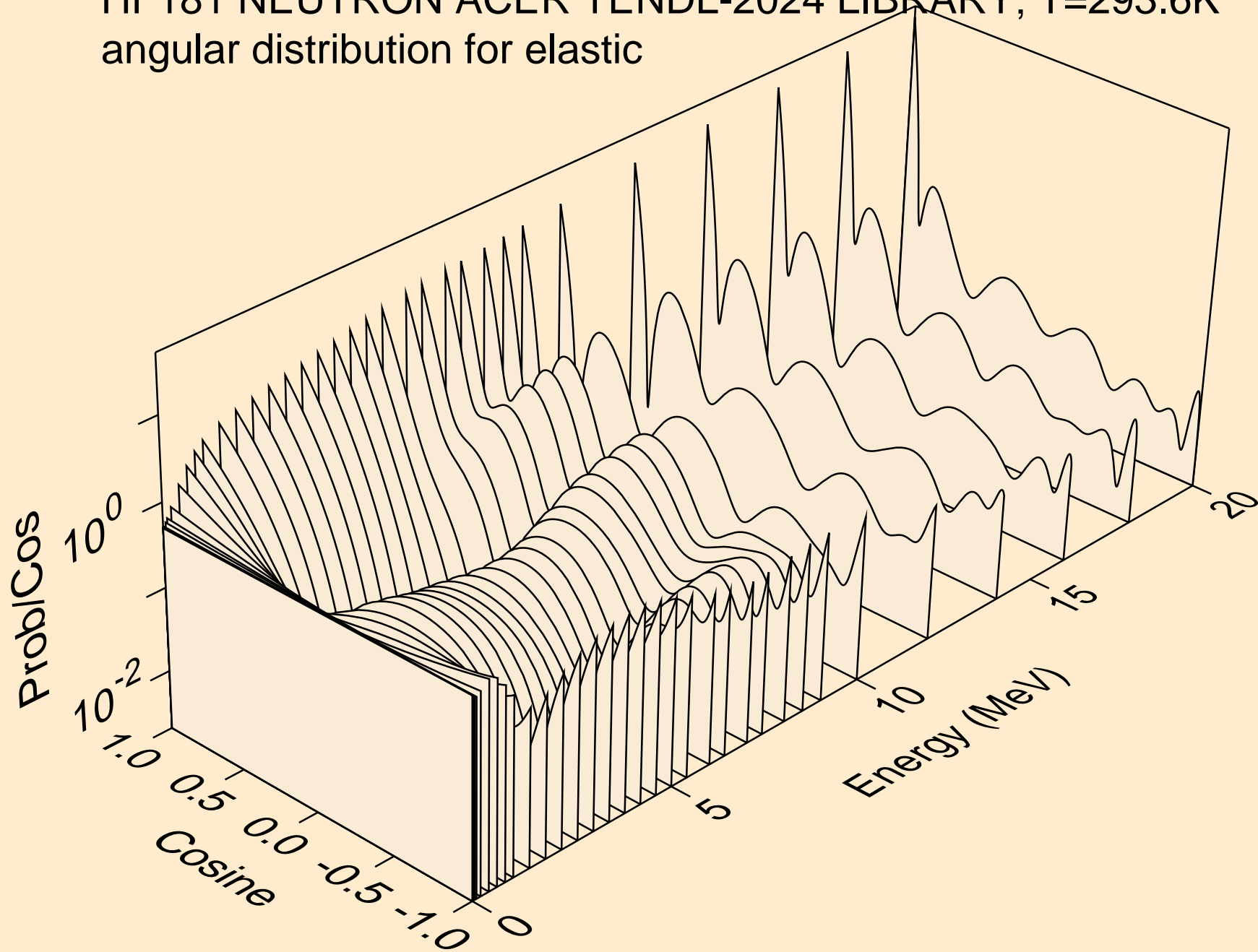


# HF181 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K

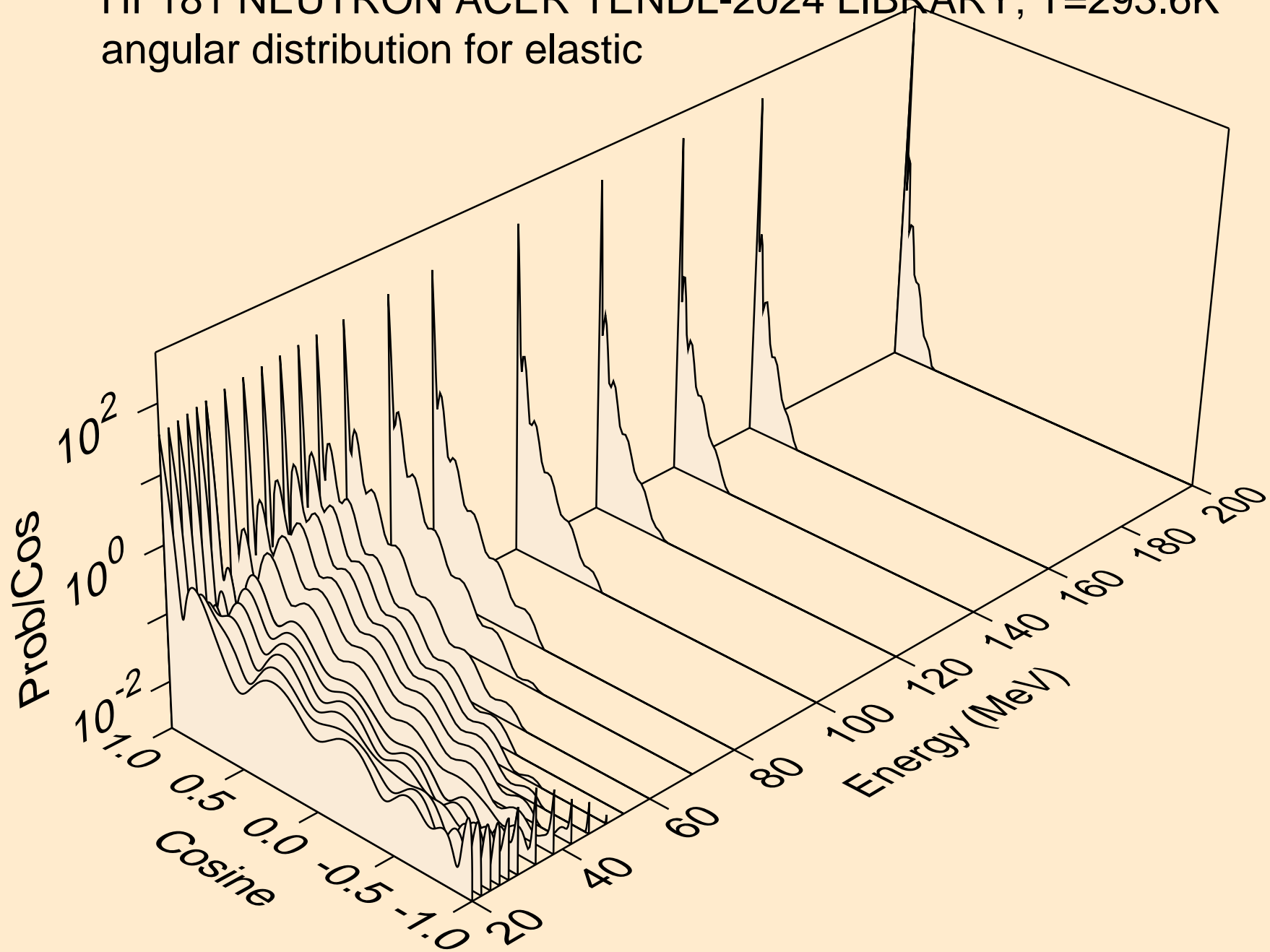
## Threshold reactions



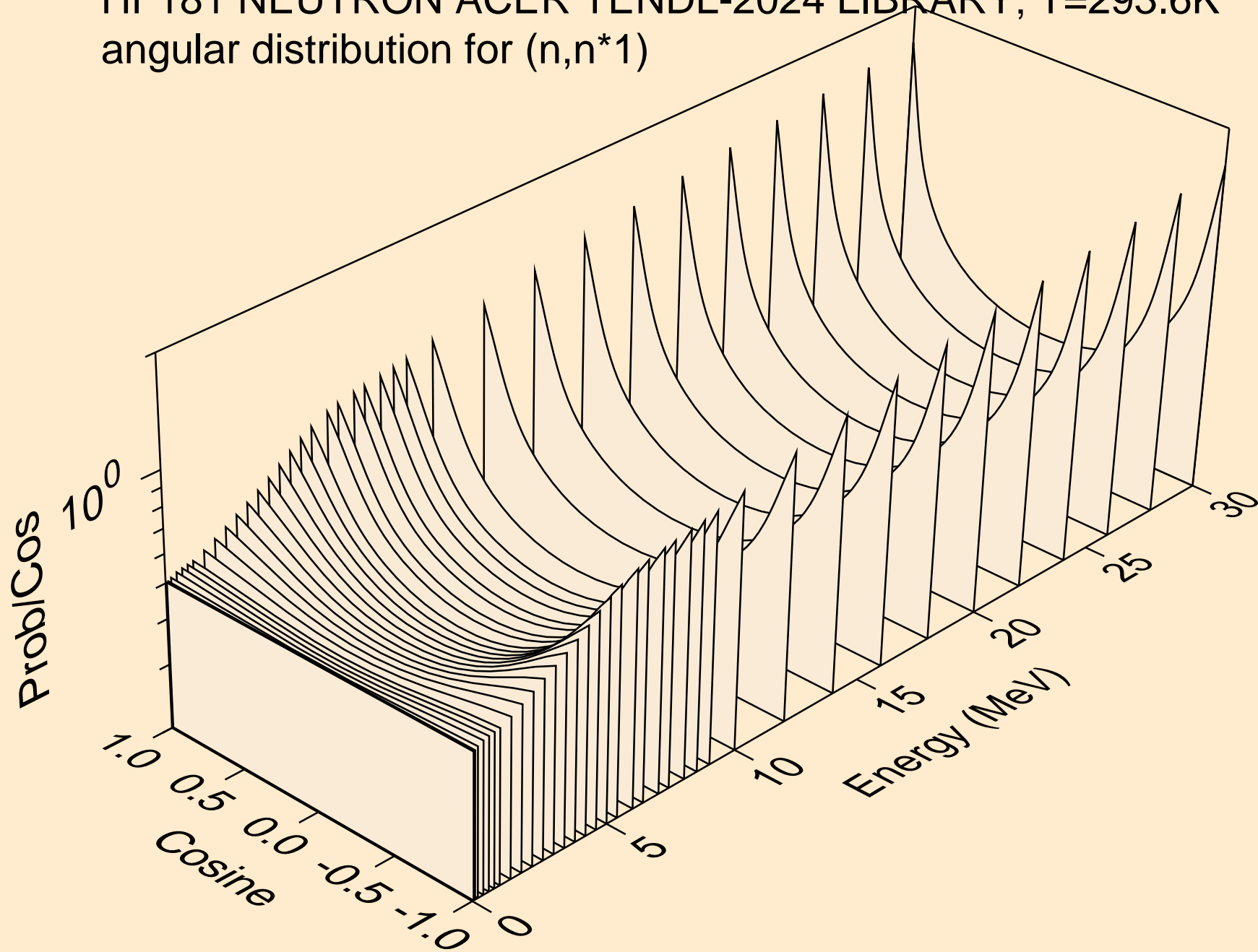
HF181 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
angular distribution for elastic



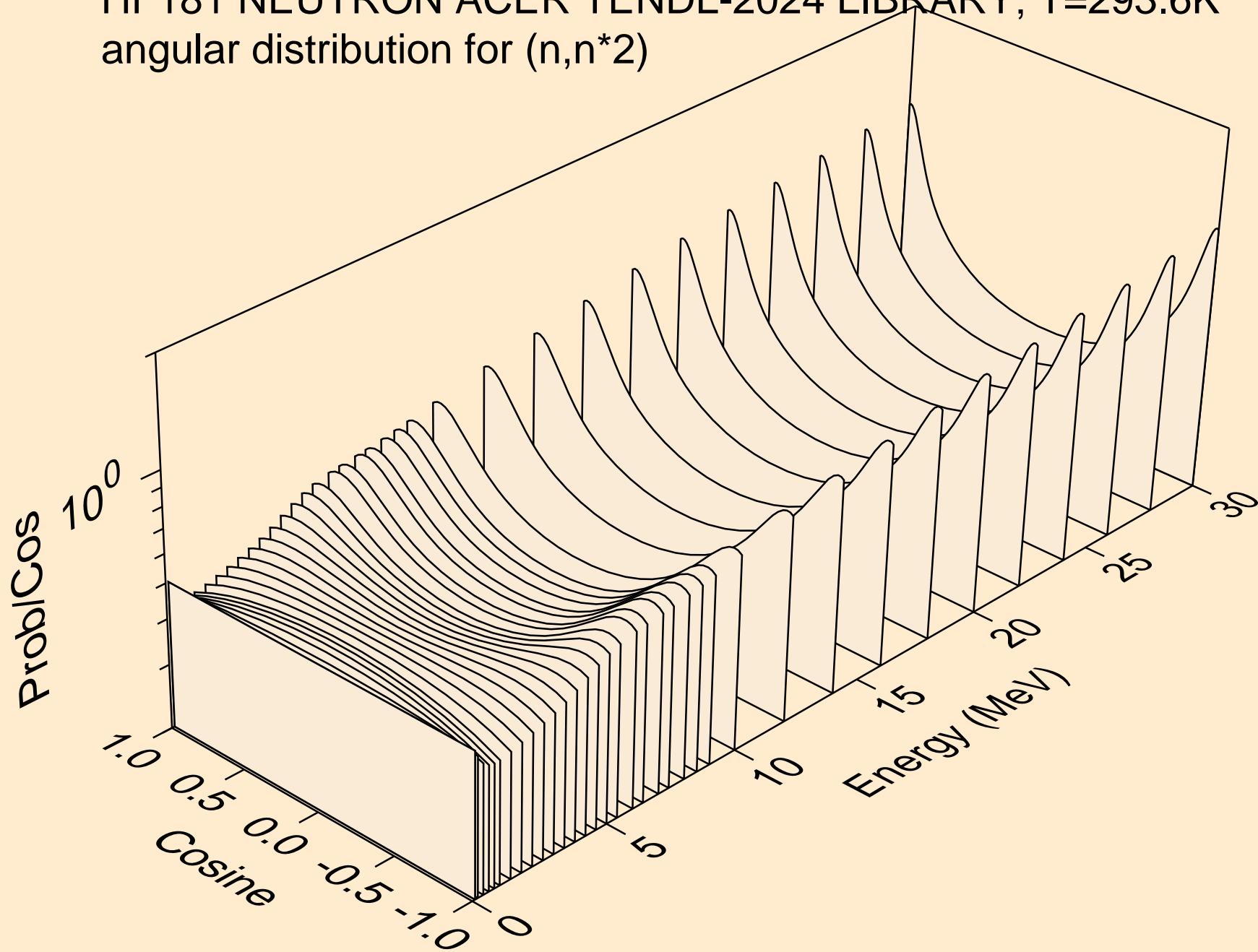
HF181 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
angular distribution for elastic



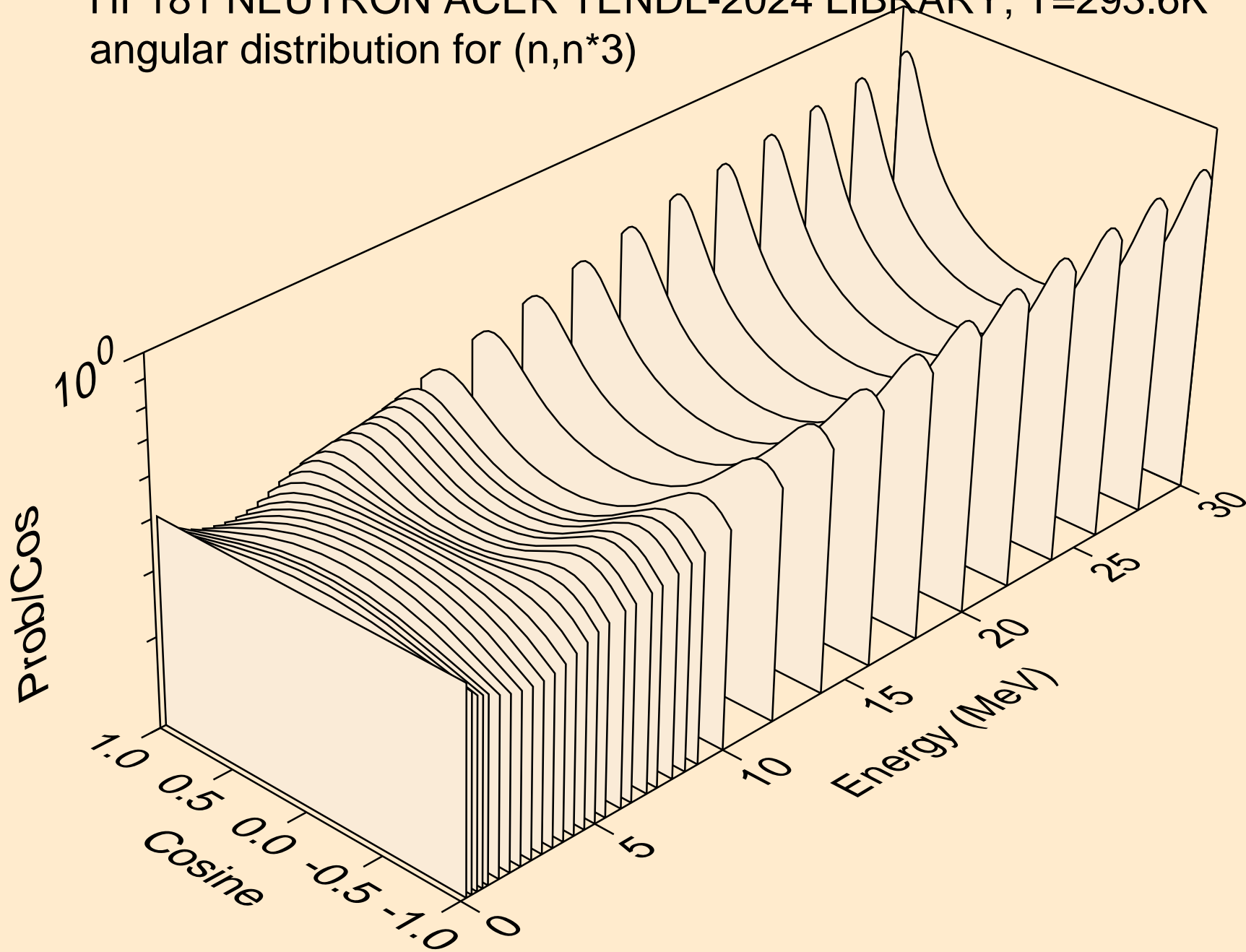
HF181 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
angular distribution for (n,n\*1)



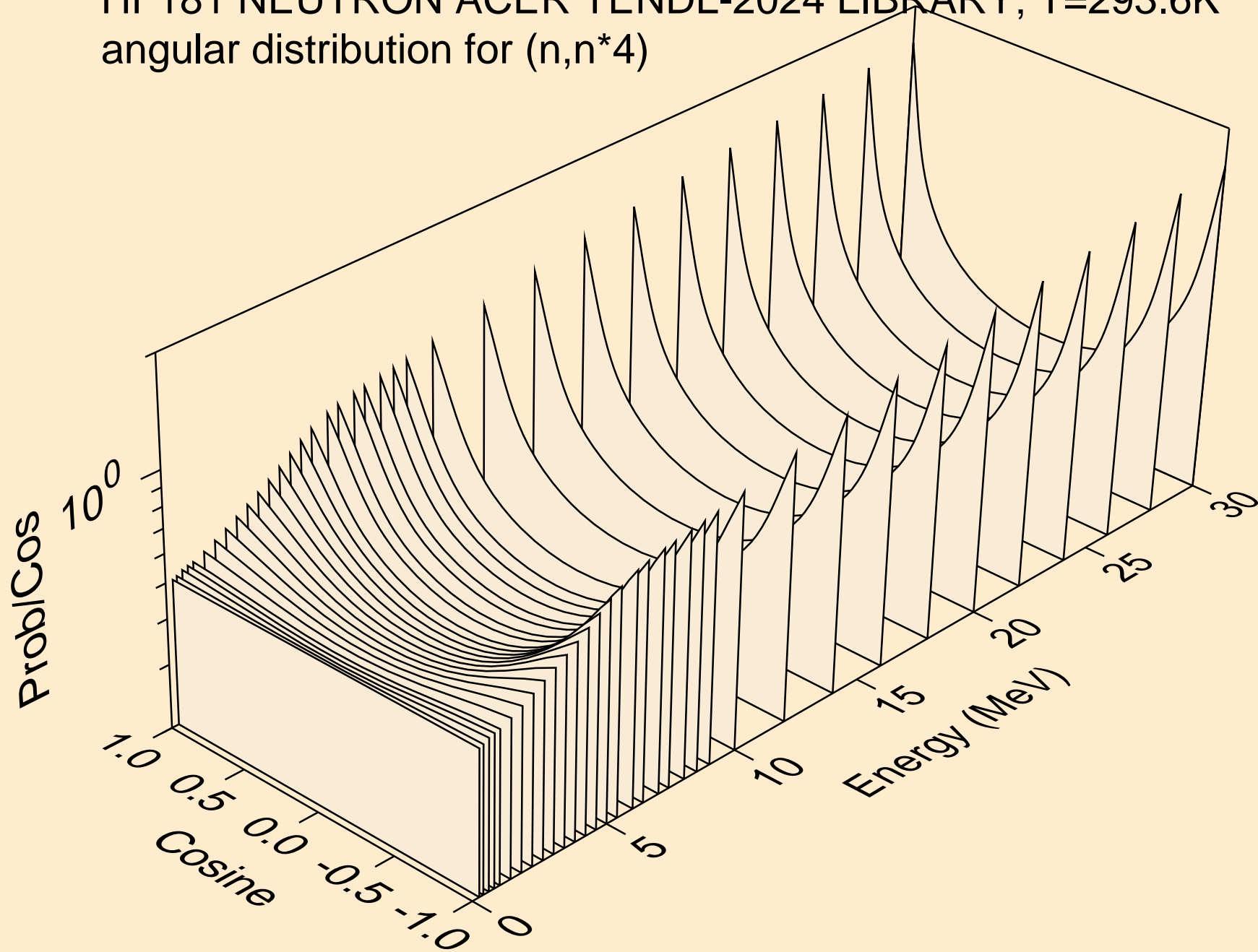
HF181 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
angular distribution for (n,n\*2)



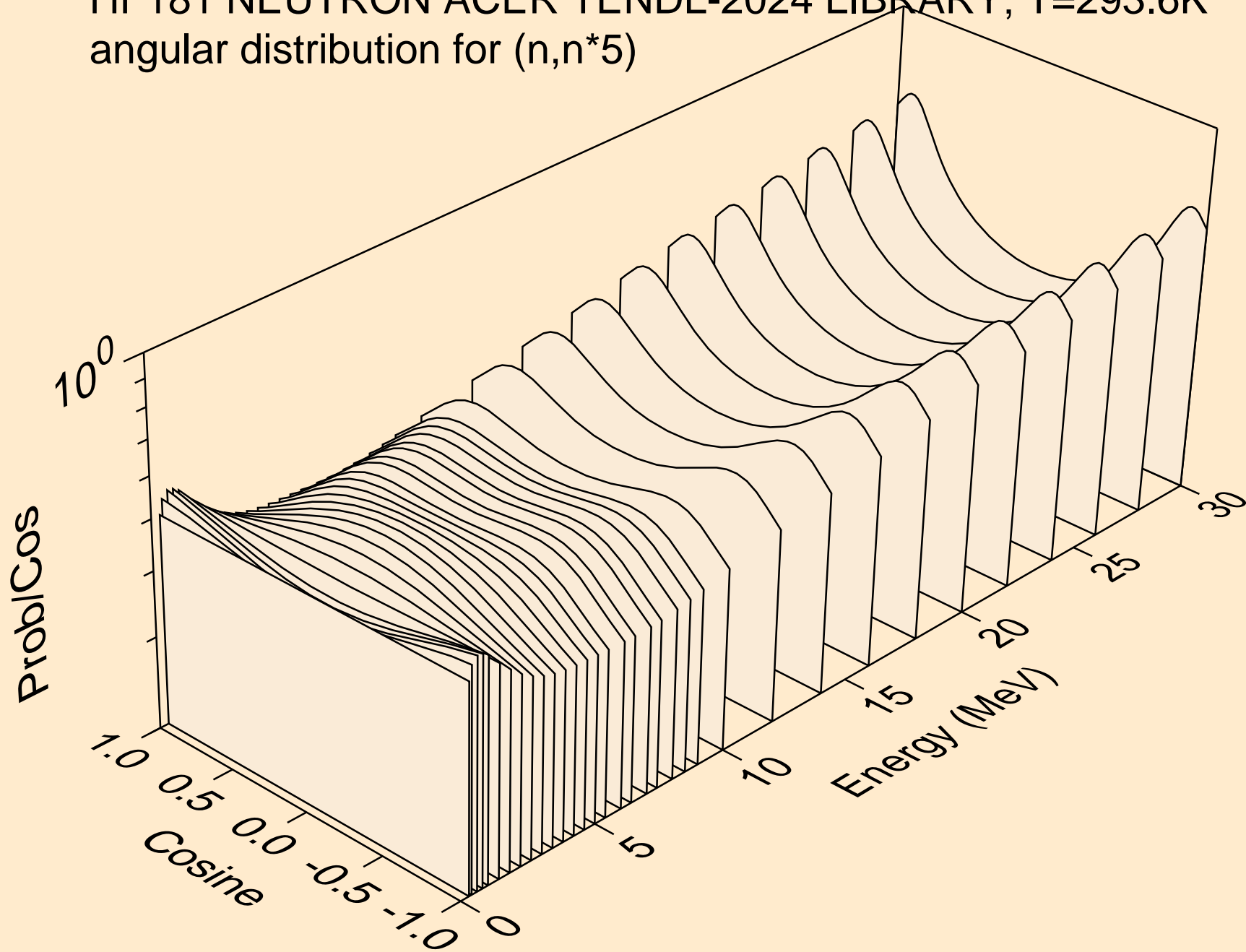
HF181 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
angular distribution for (n,n\*3)



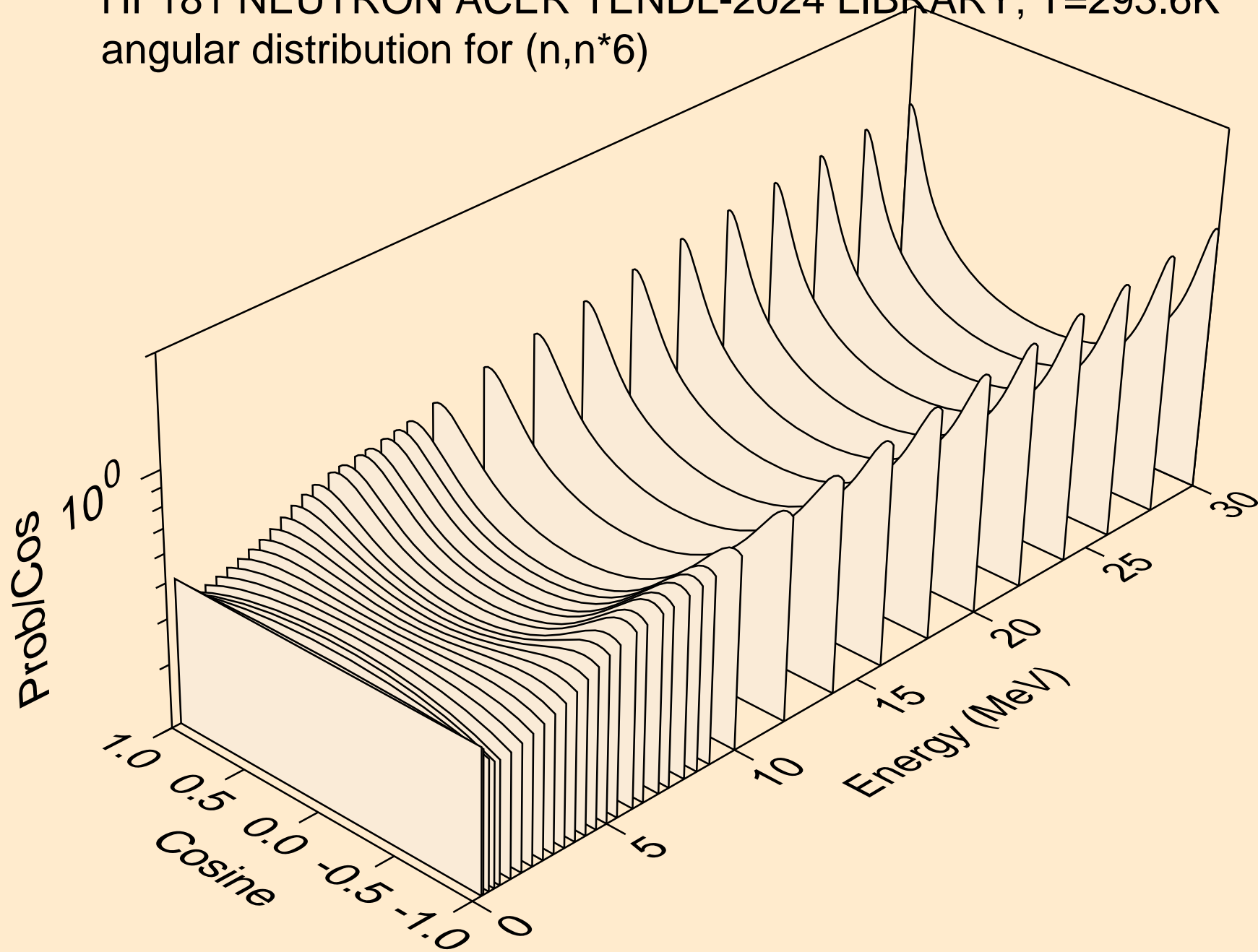
HF181 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
angular distribution for (n,n\*4)



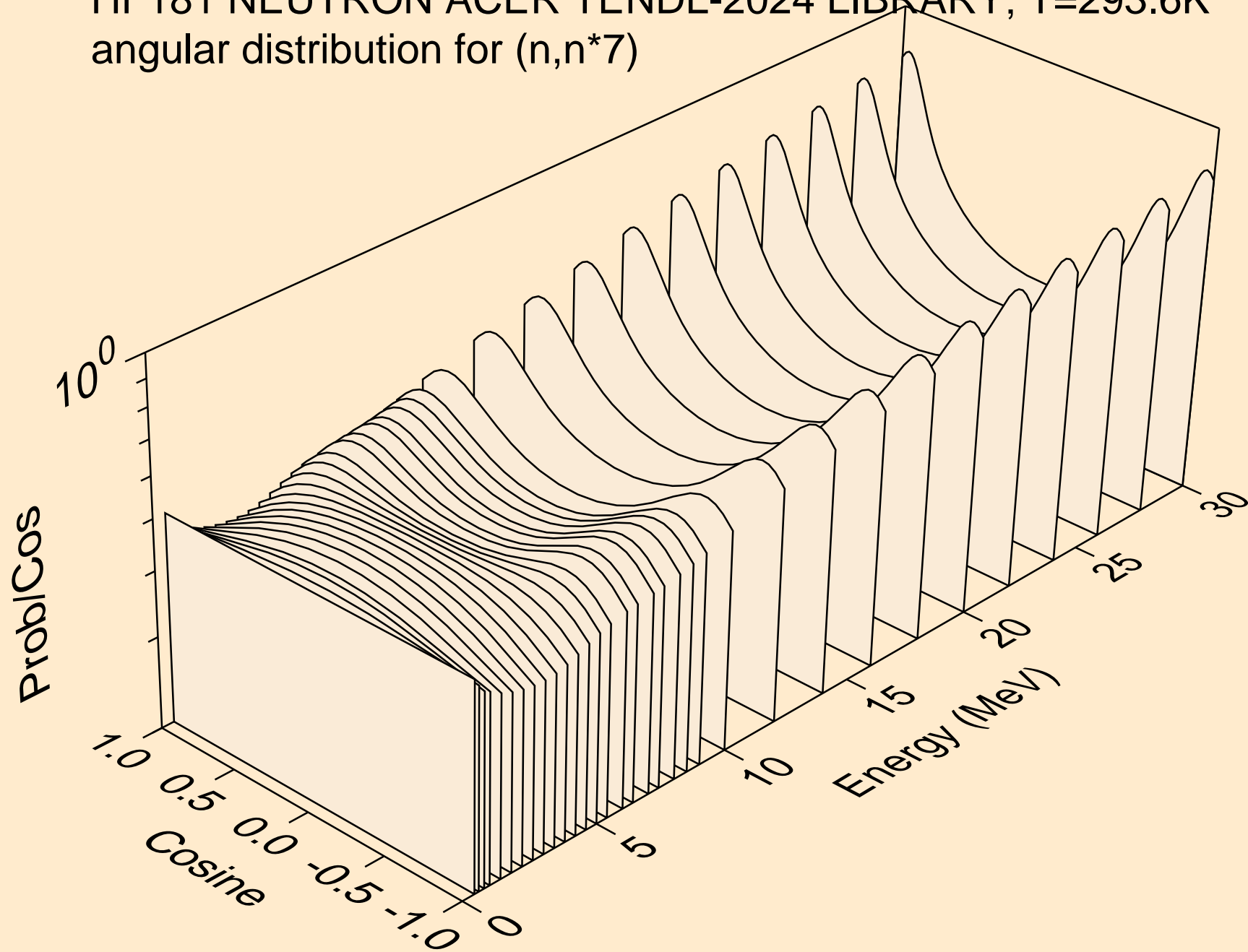
HF181 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
angular distribution for (n,n\*5)



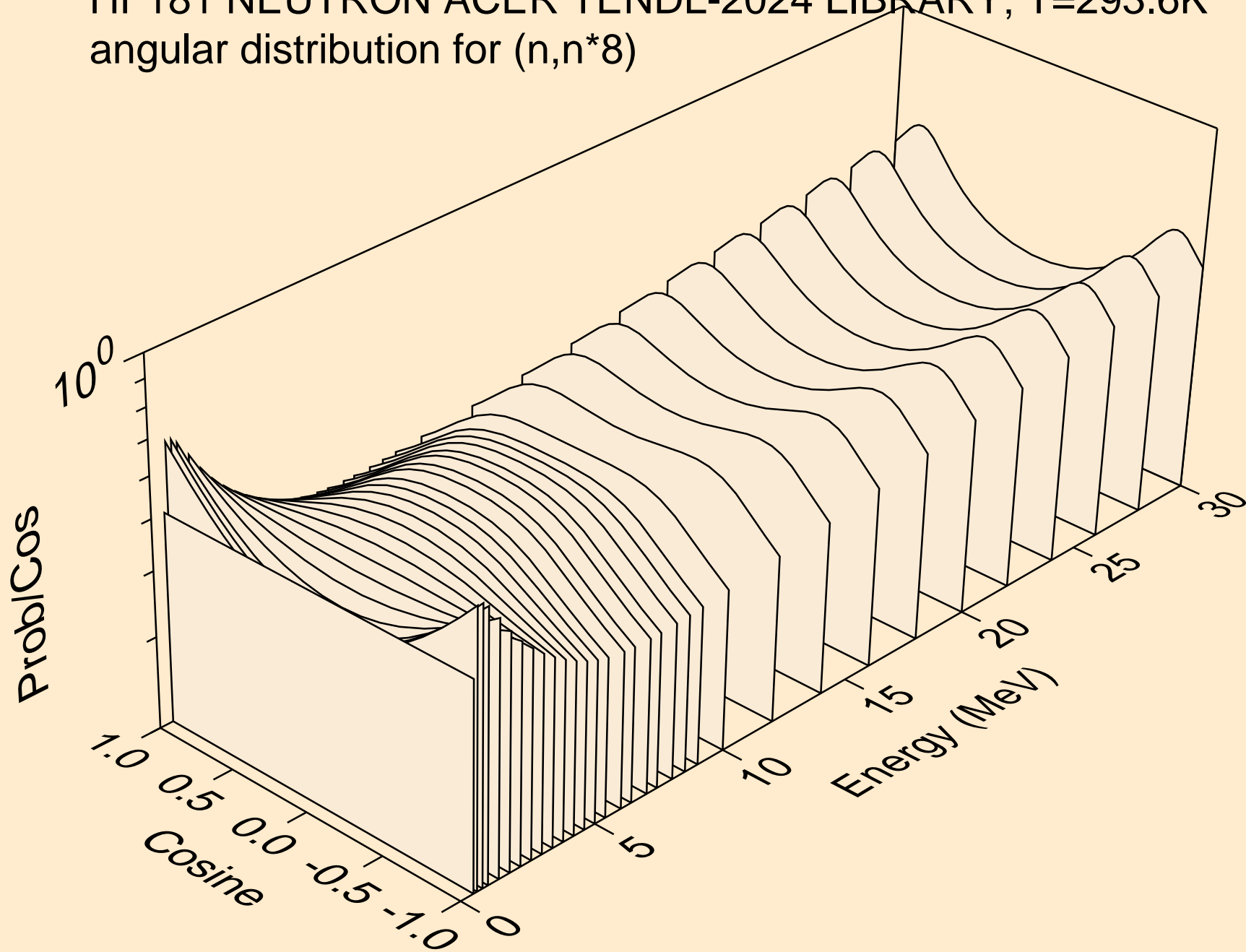
HF181 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
angular distribution for (n,n\*6)



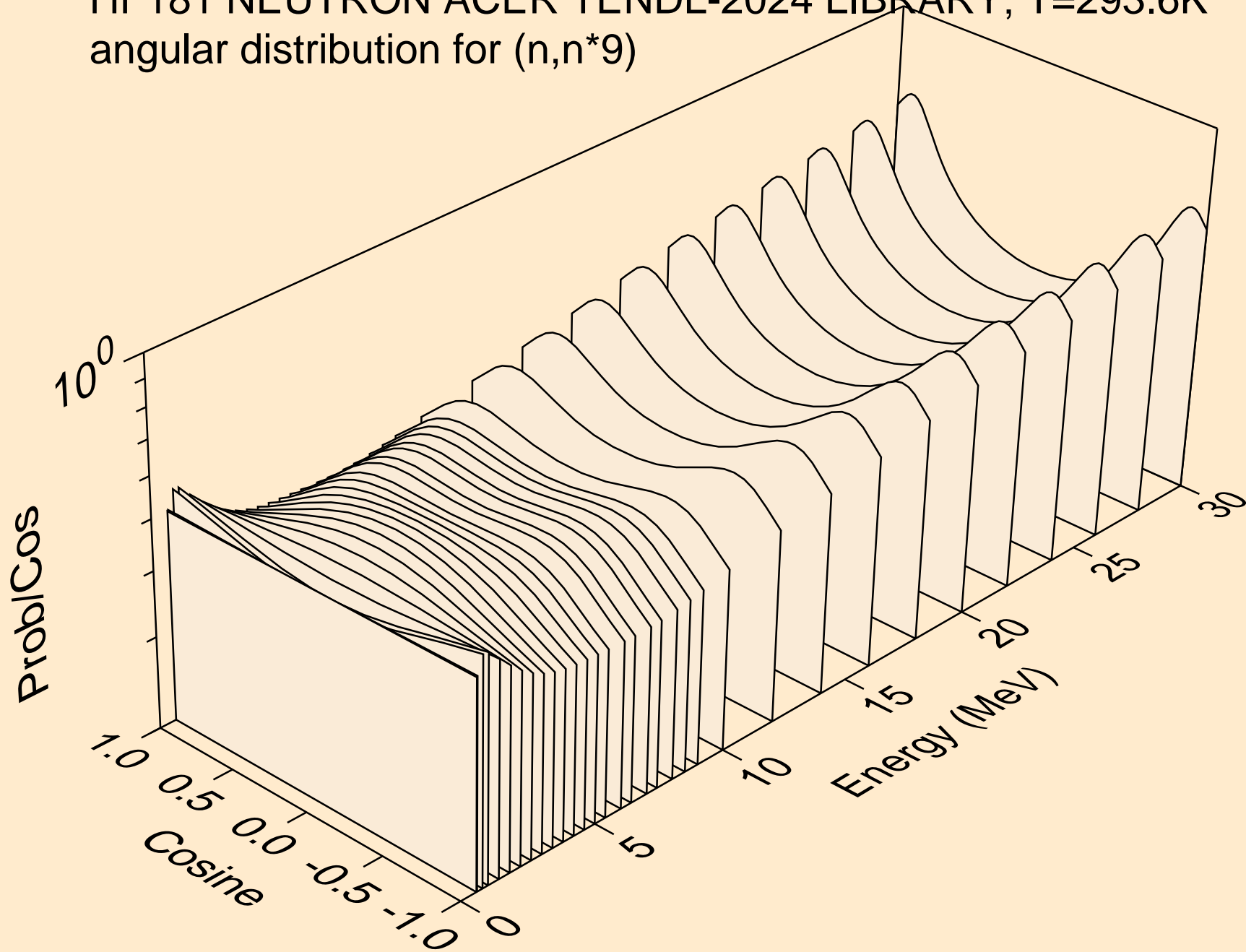
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angular distribution for (n,n\*7)



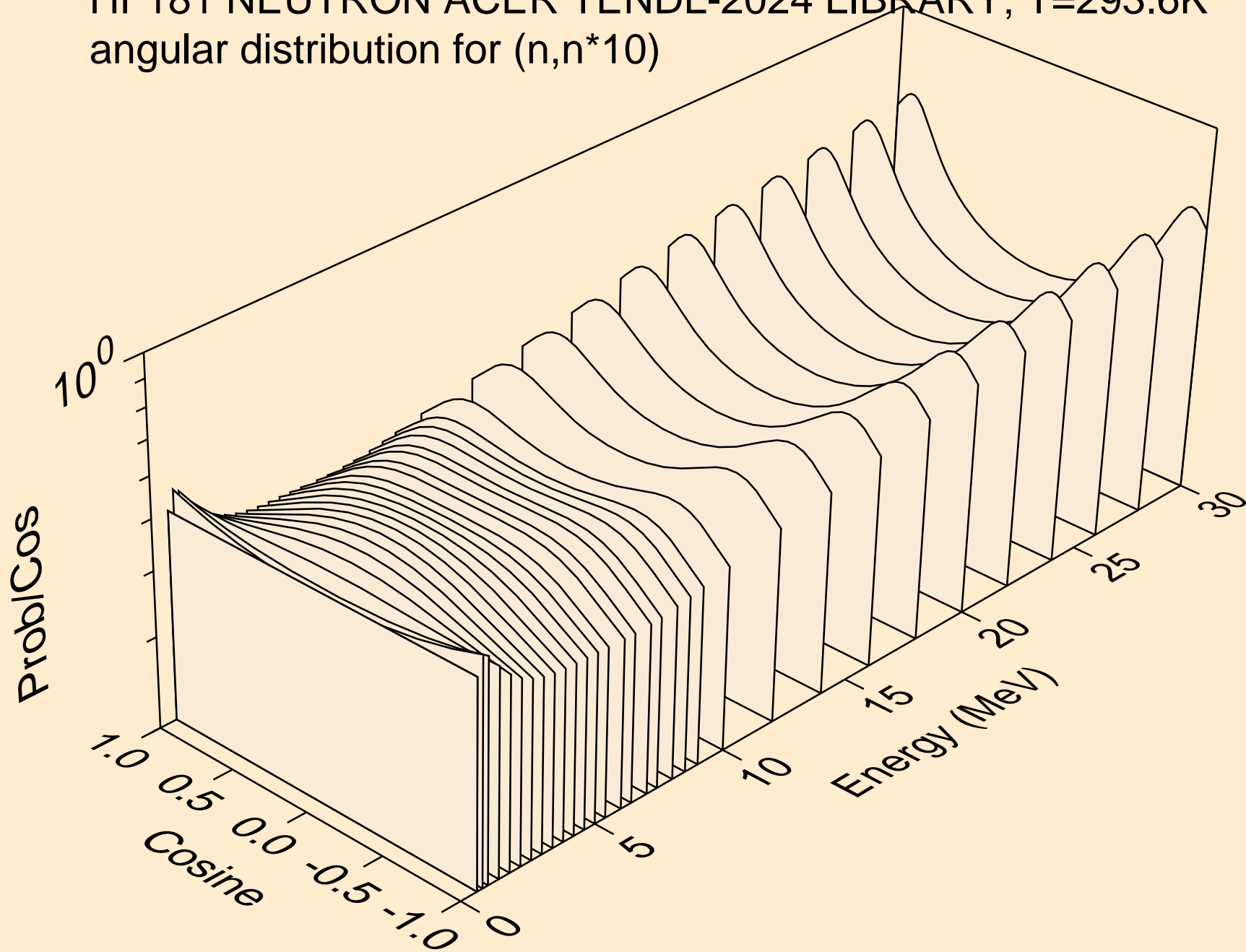
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angular distribution for (n,n\*8)



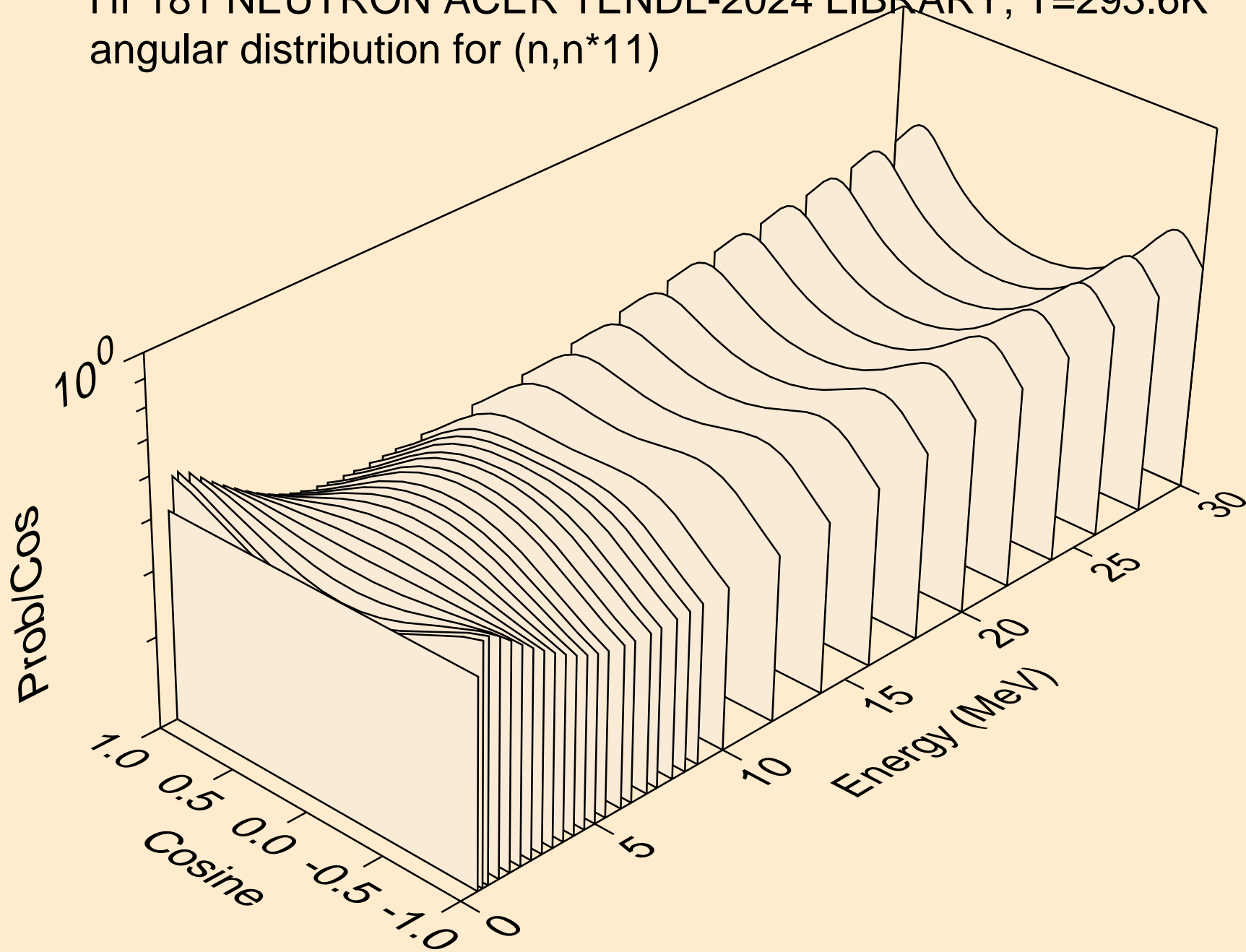
HF181 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
angular distribution for (n,n\*9)



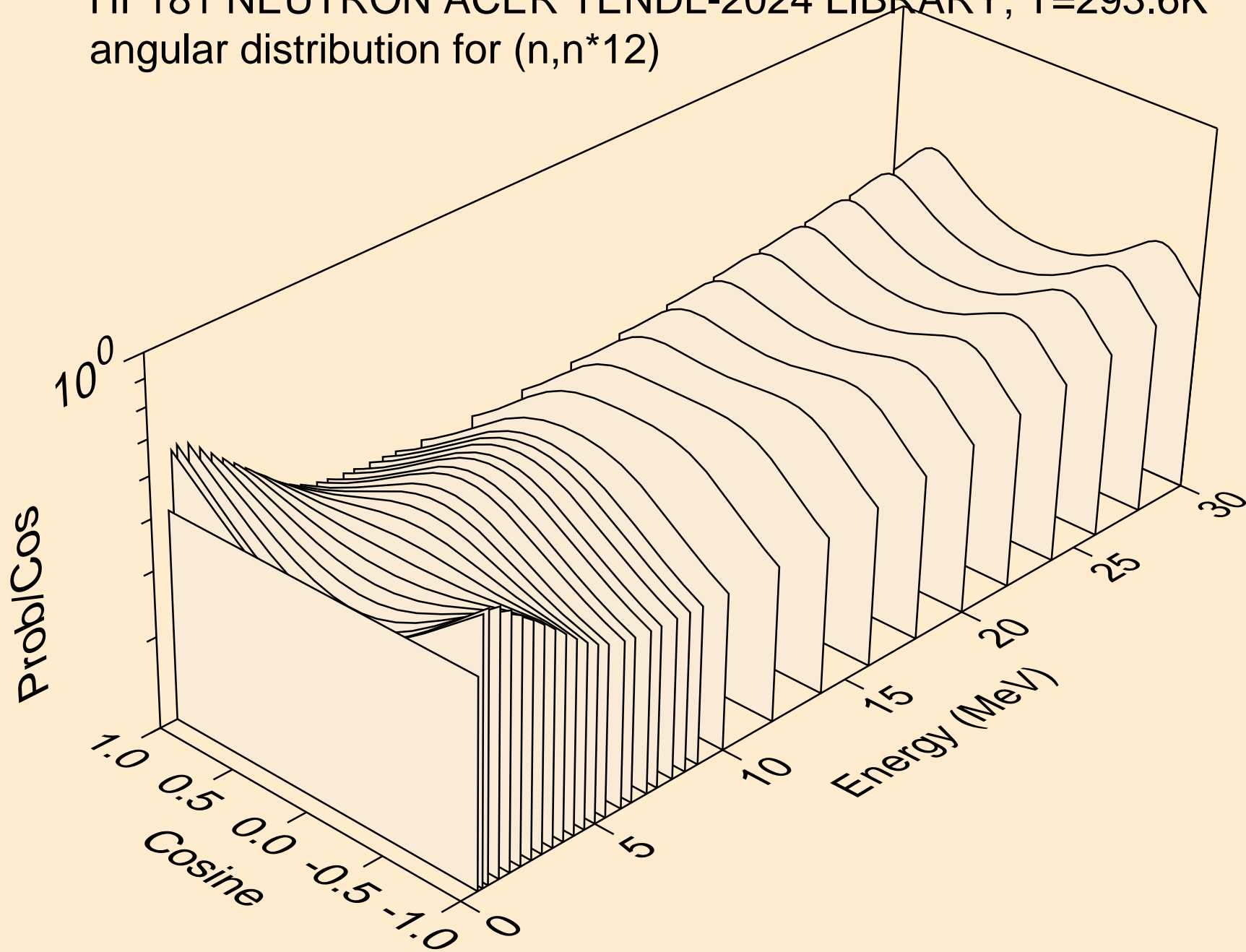
HF181 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
angular distribution for (n,n\*10)



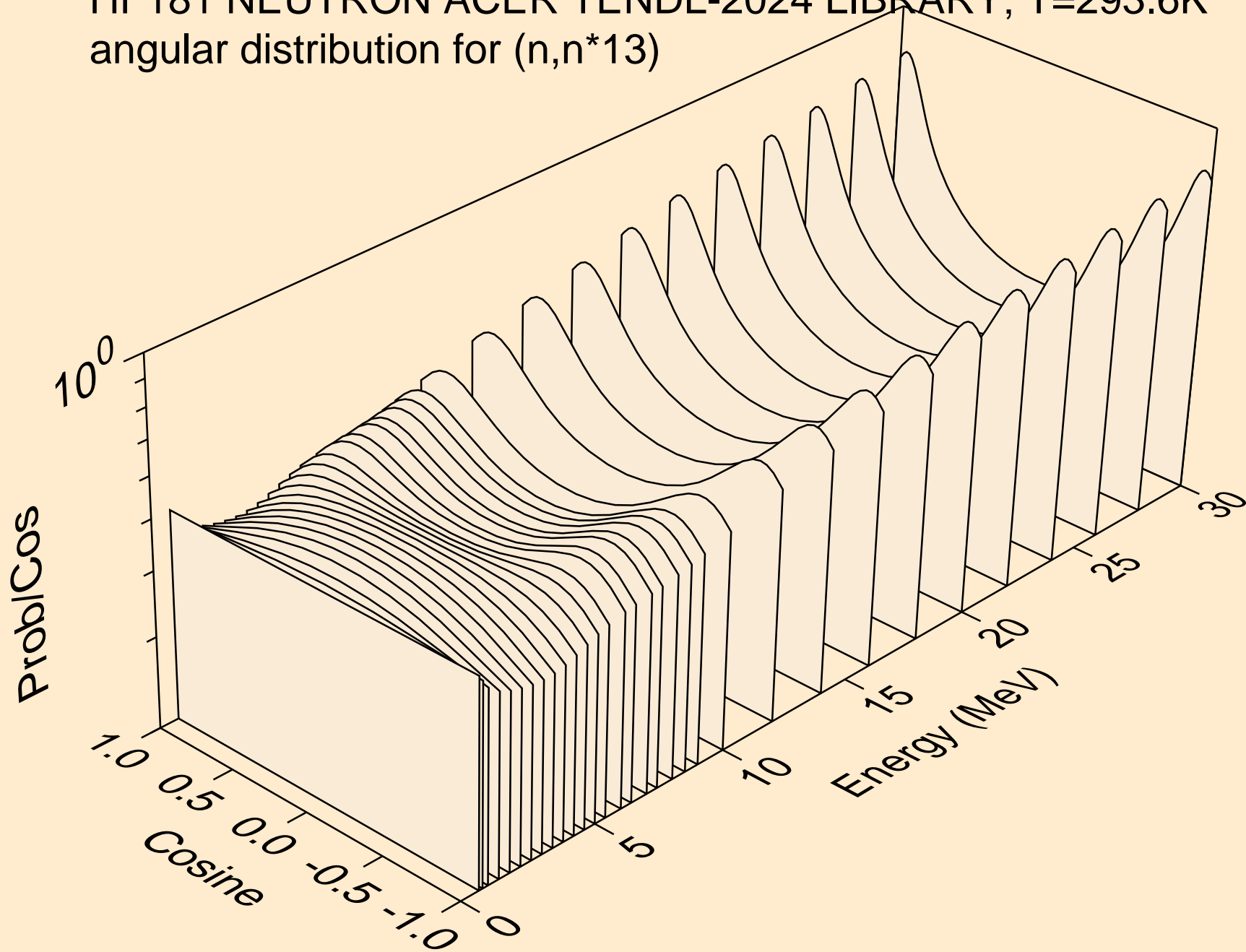
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angular distribution for (n,n\*11)



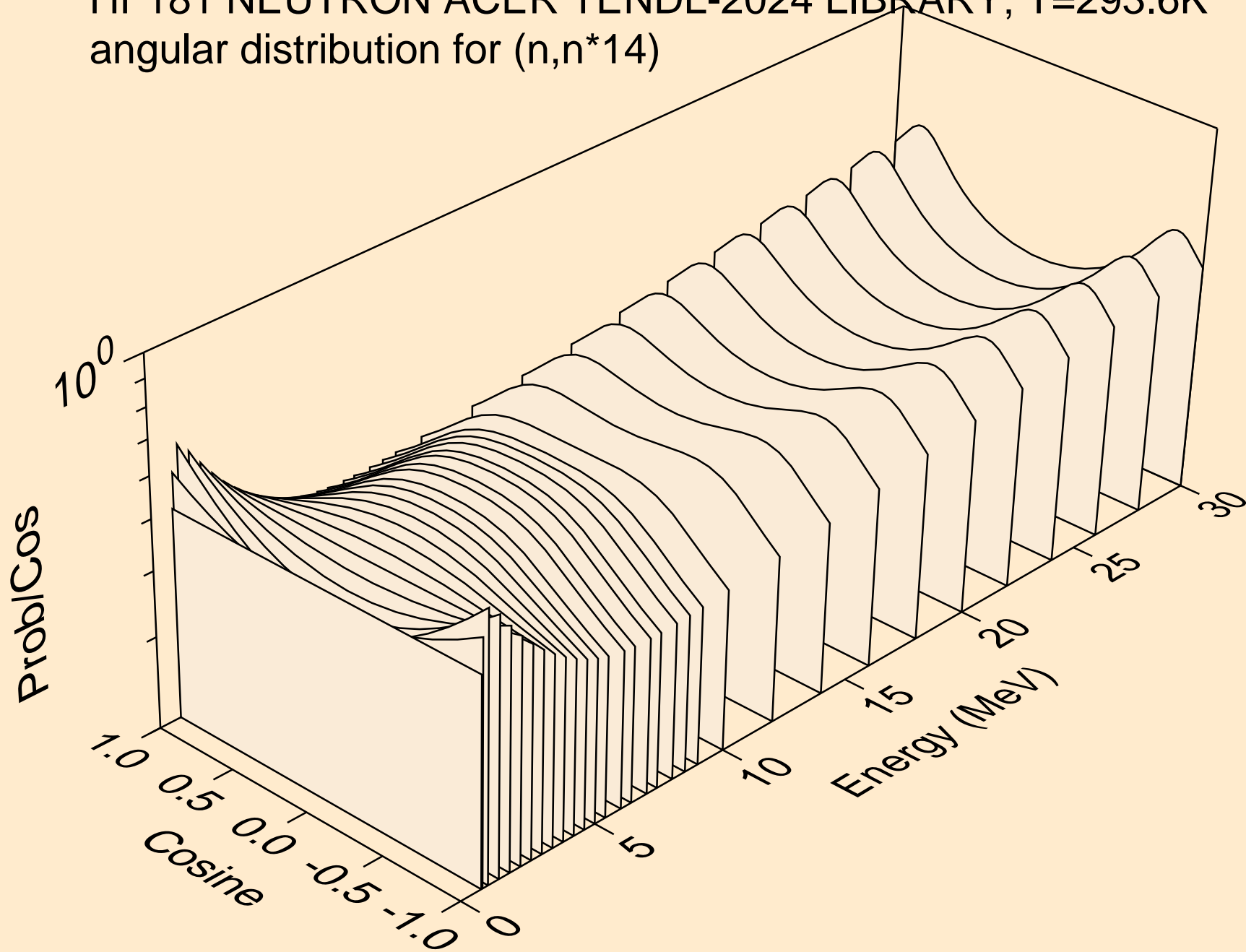
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angular distribution for (n,n\*12)



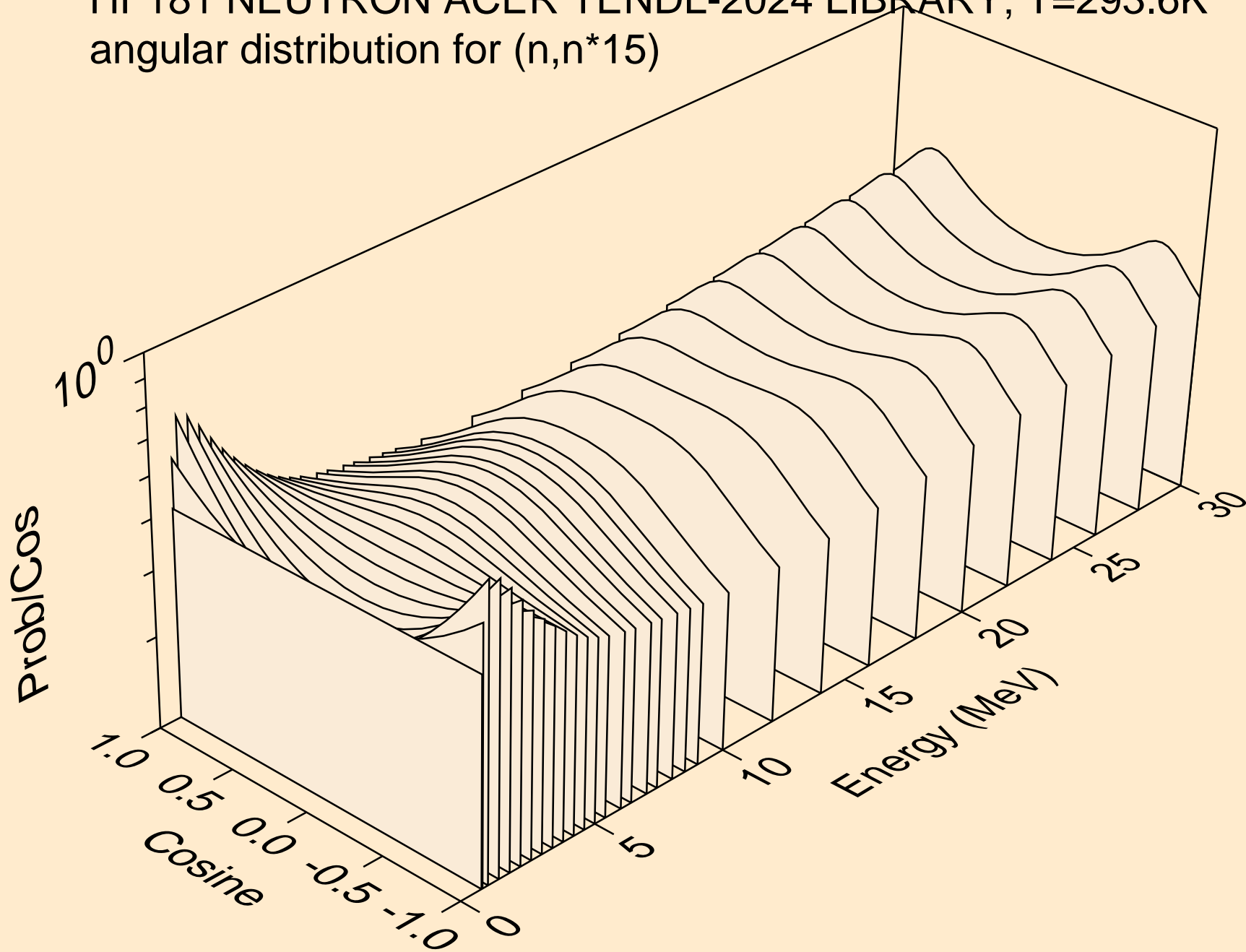
HF181 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
angular distribution for (n,n\*13)



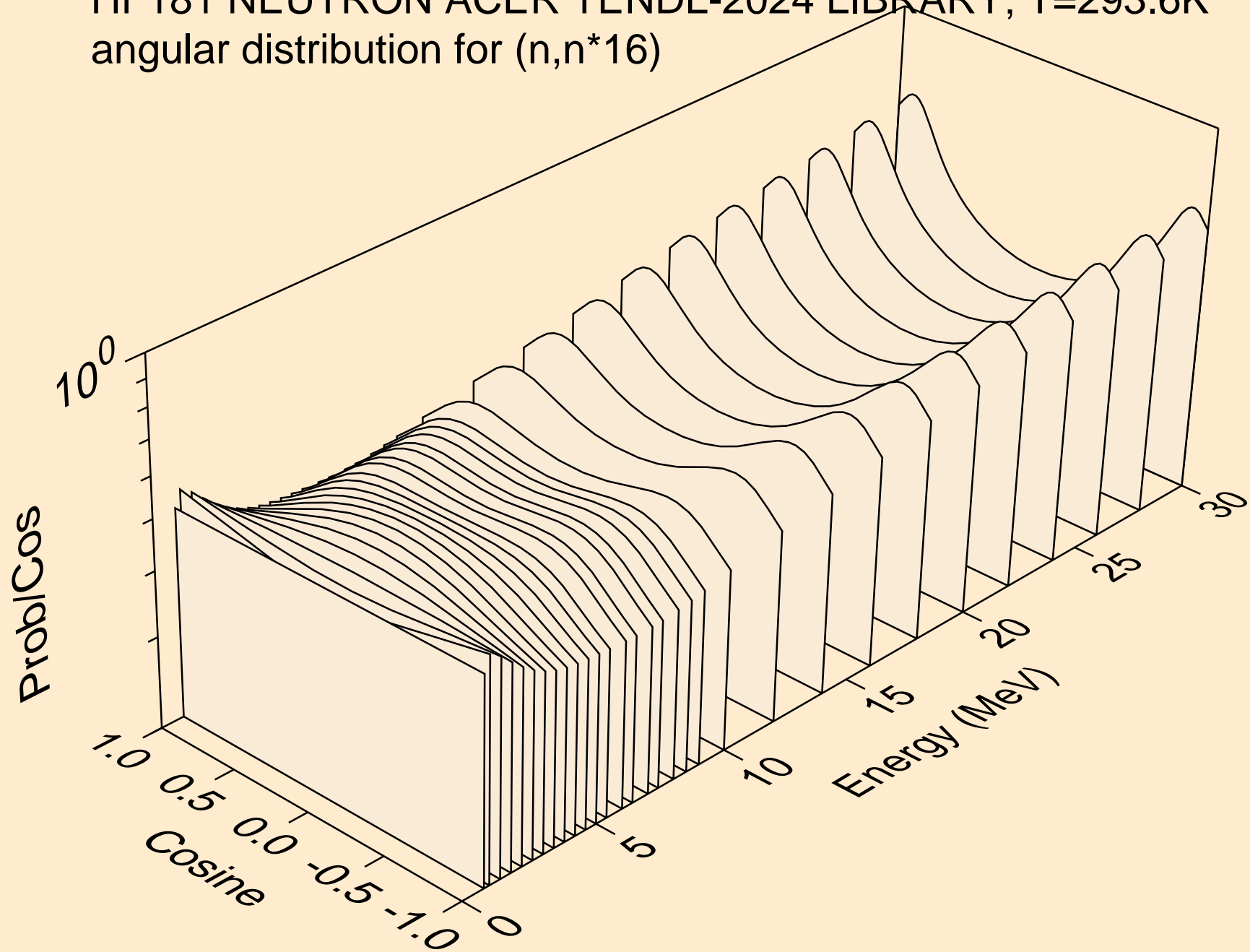
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angular distribution for (n,n\*14)



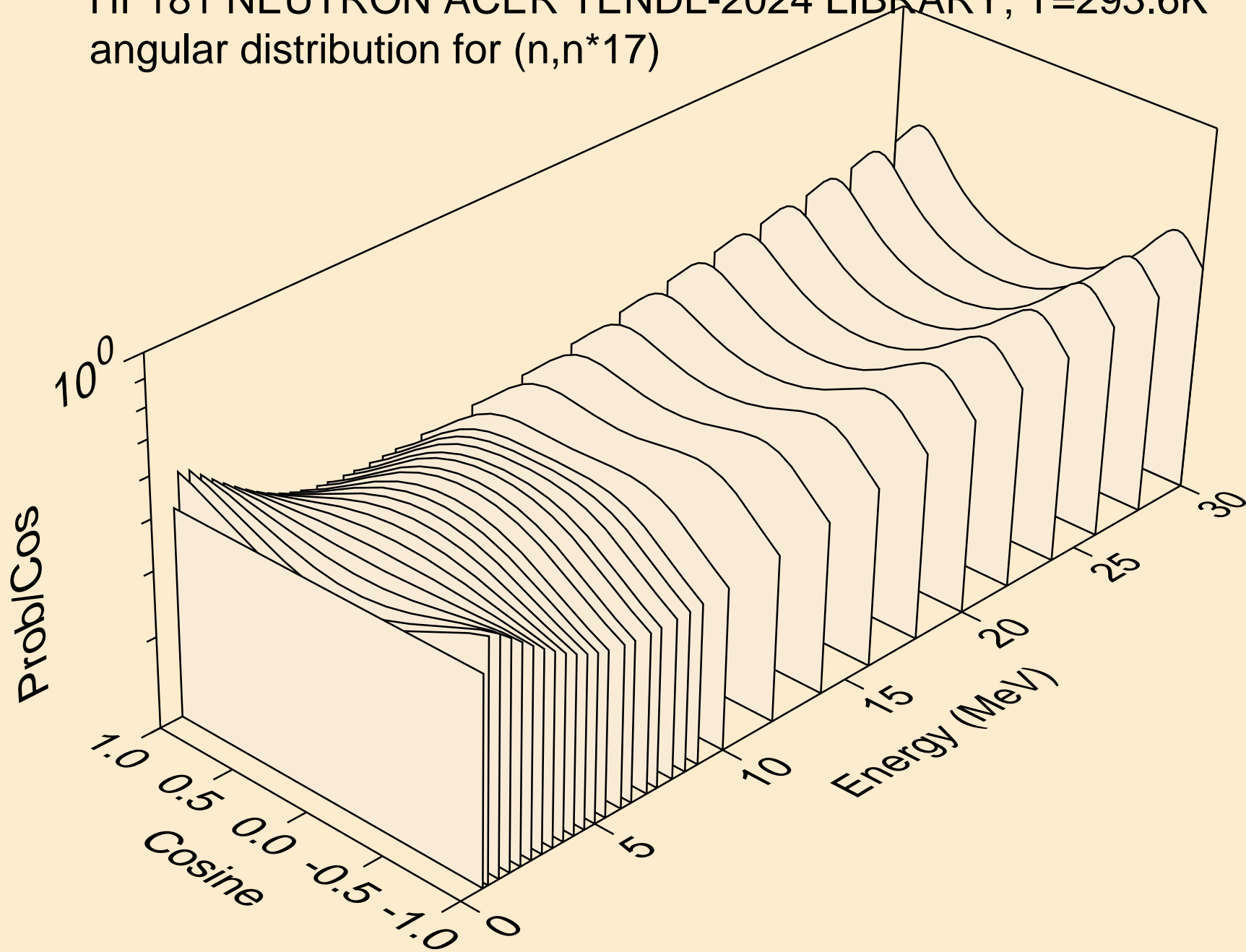
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angular distribution for (n,n\*15)



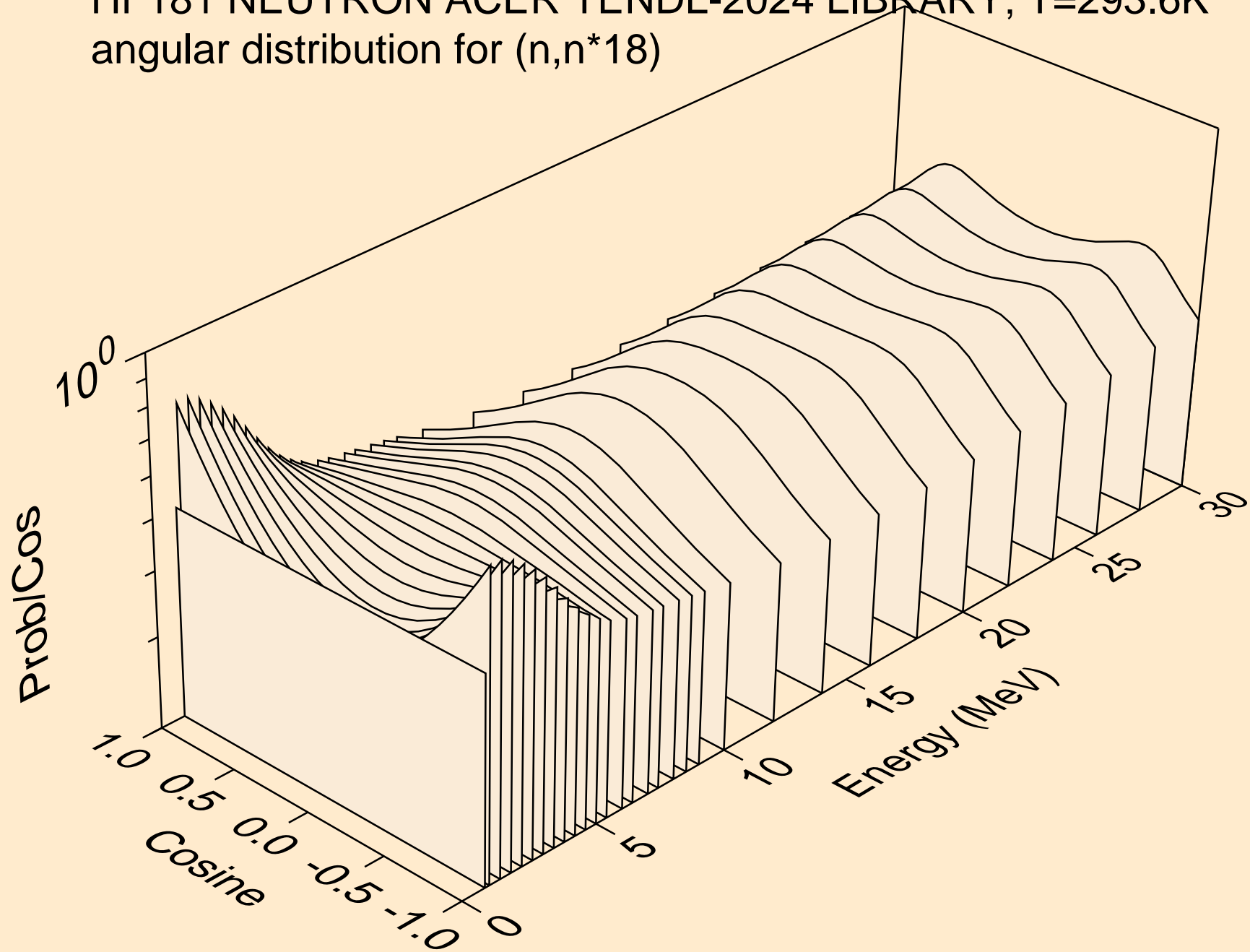
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angular distribution for (n,n\*16)



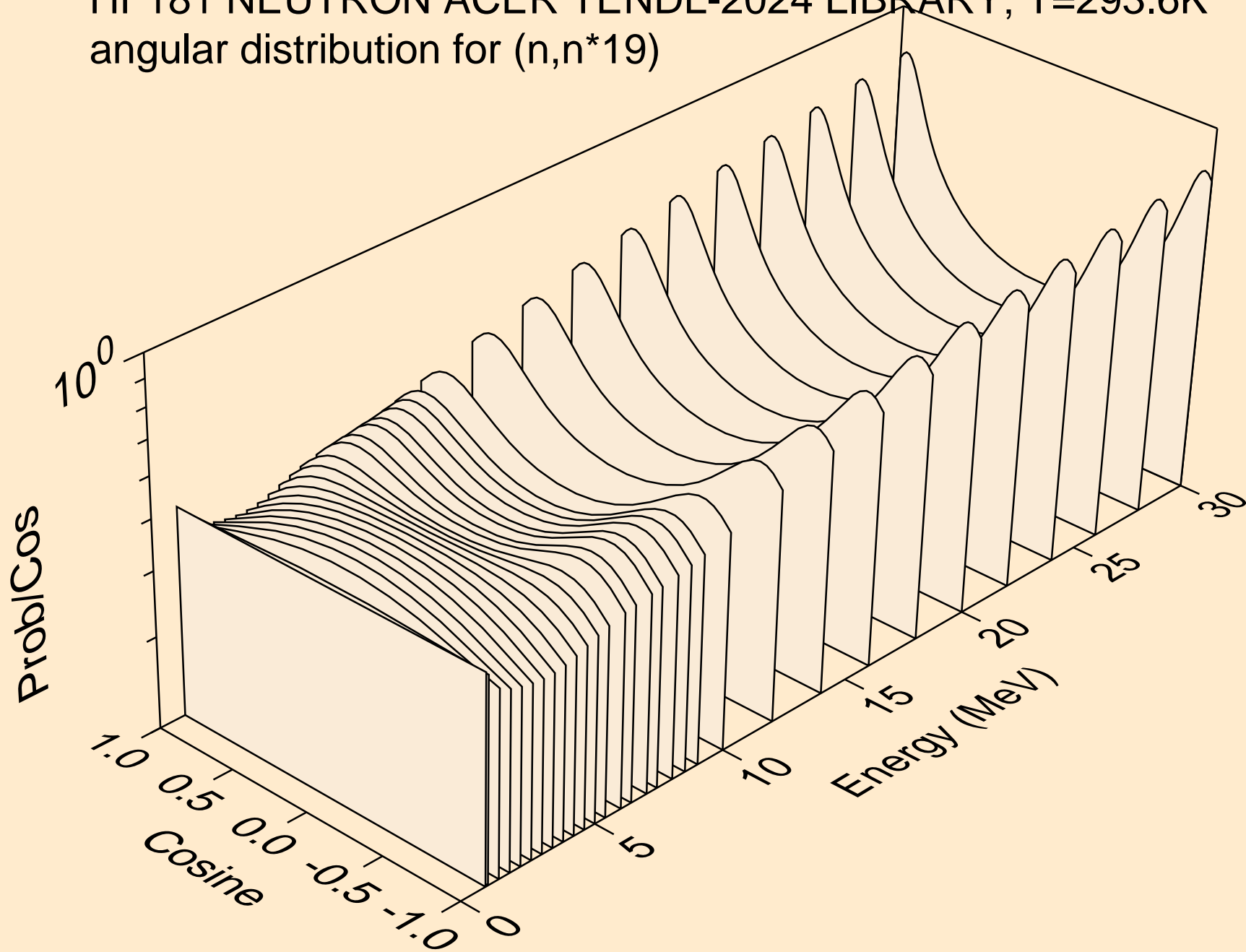
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angular distribution for (n,n\*17)



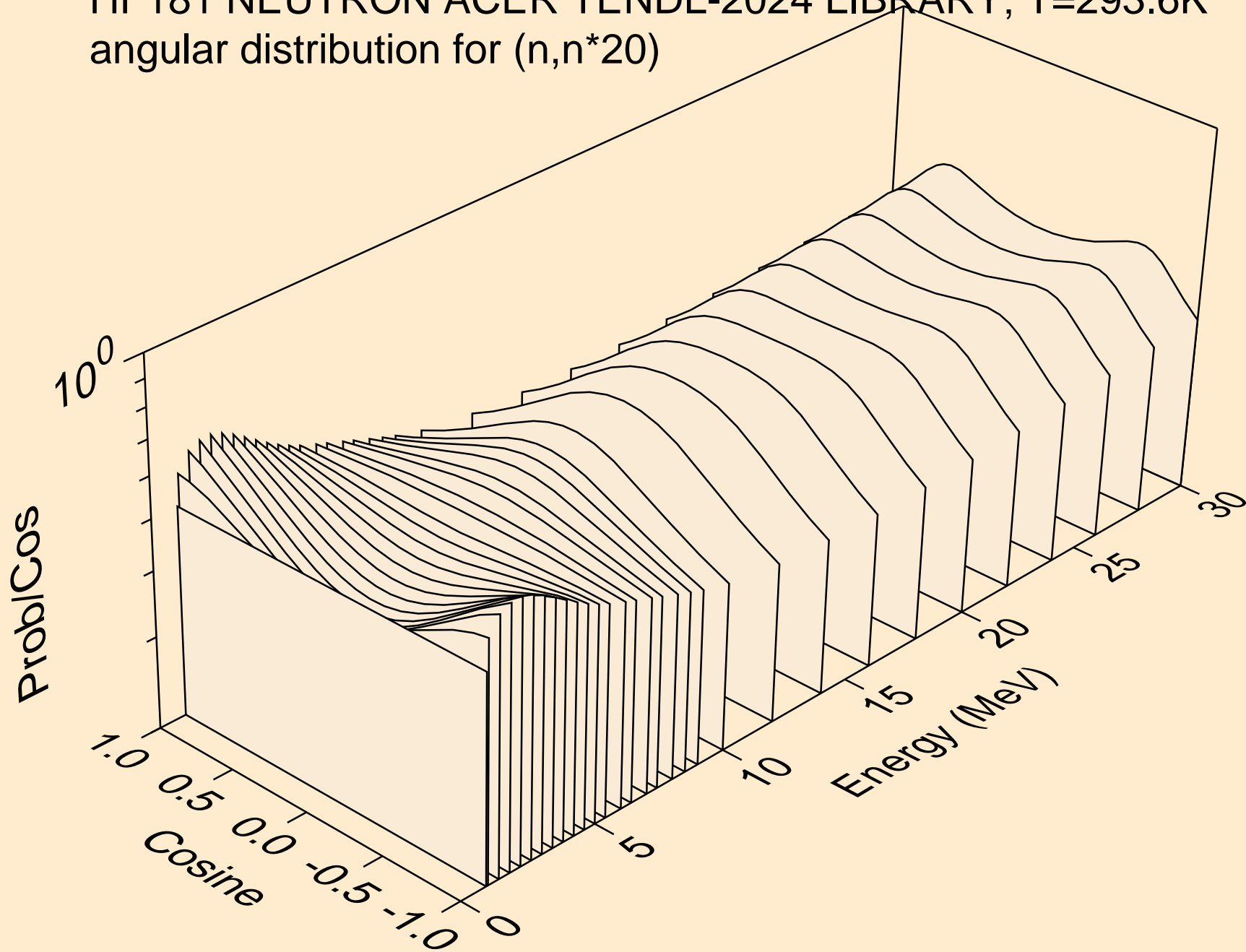
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angular distribution for (n,n\*18)



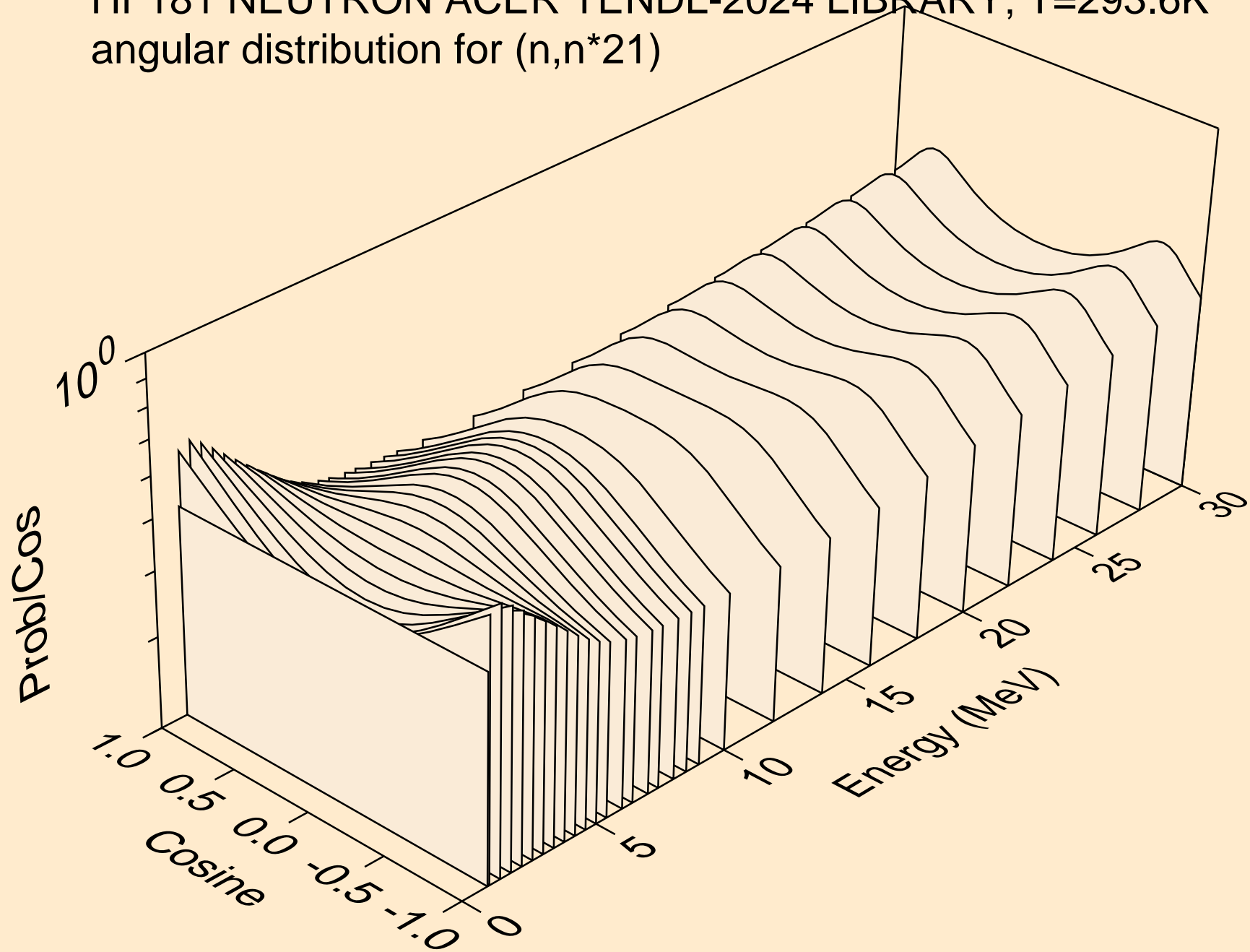
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angular distribution for (n,n\*19)



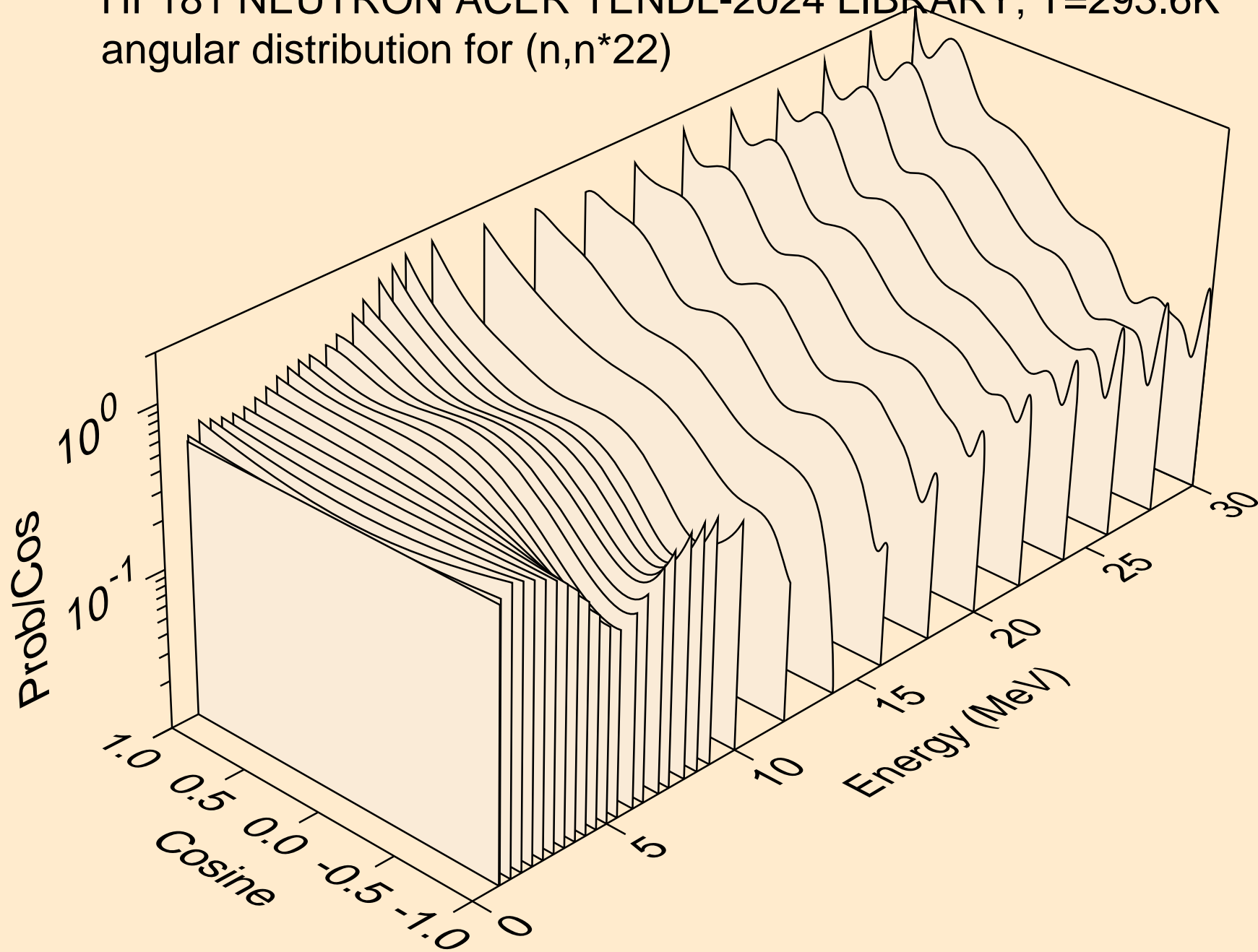
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angular distribution for (n,n\*20)



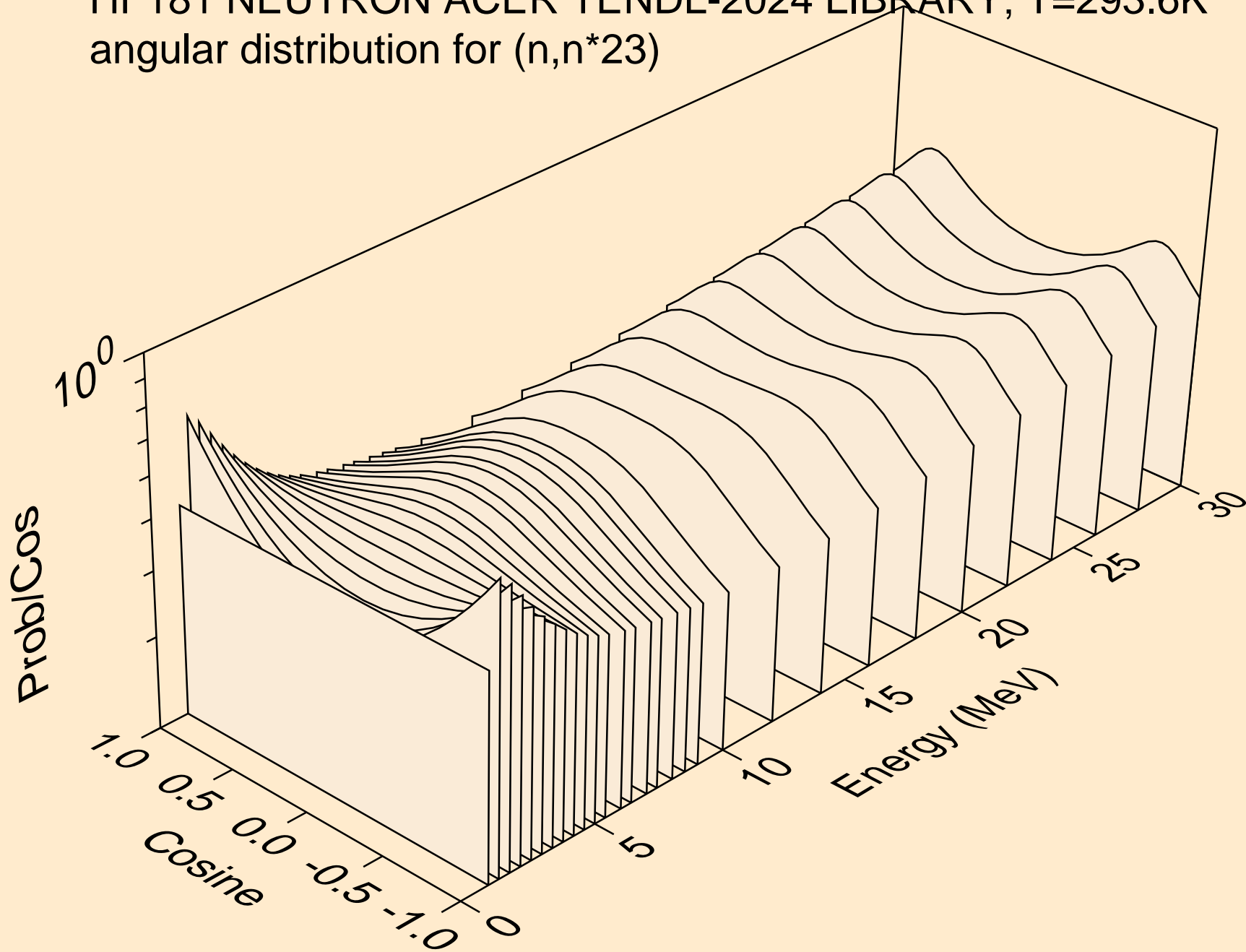
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angular distribution for (n,n\*21)



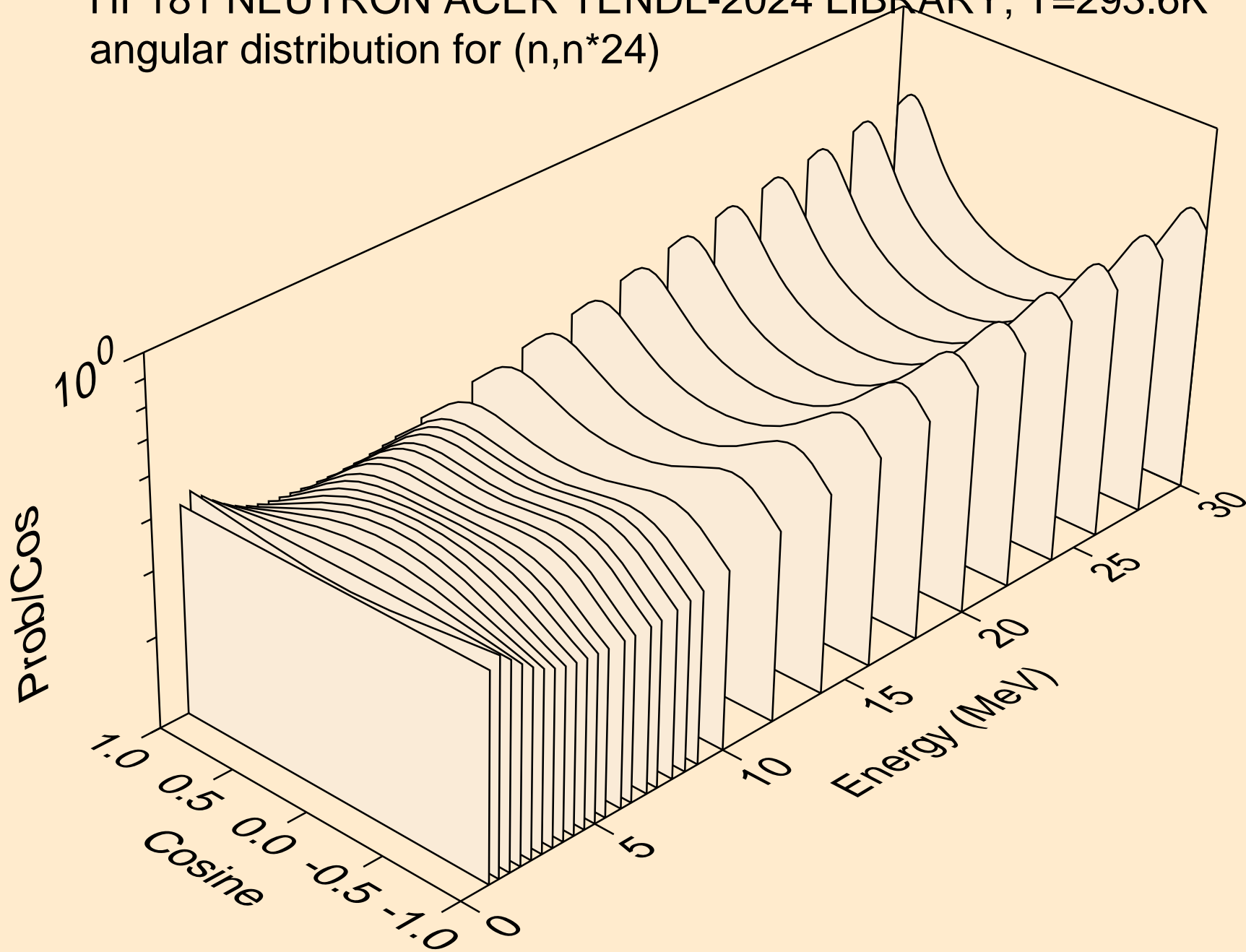
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angular distribution for (n,n\*22)



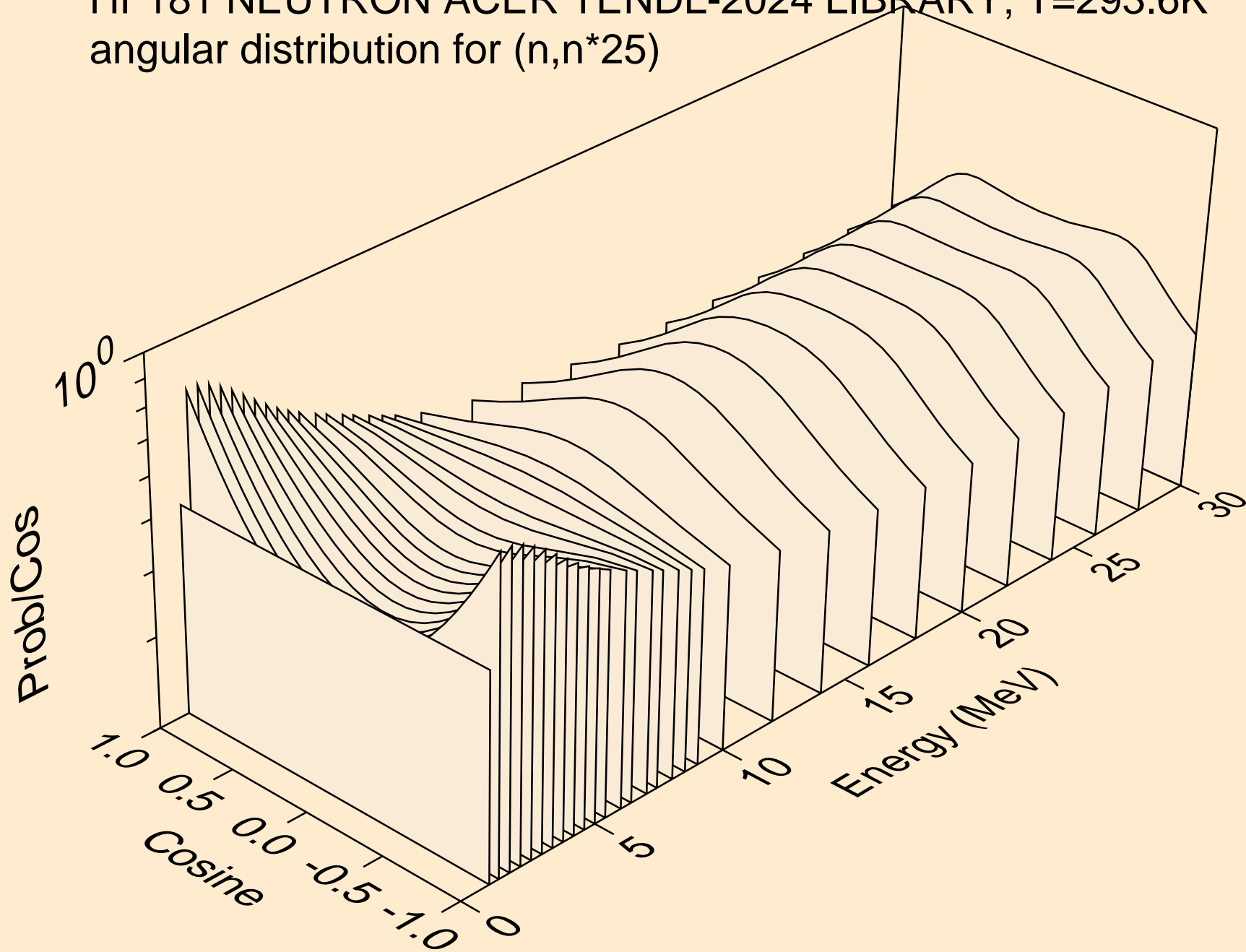
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angular distribution for (n,n\*23)



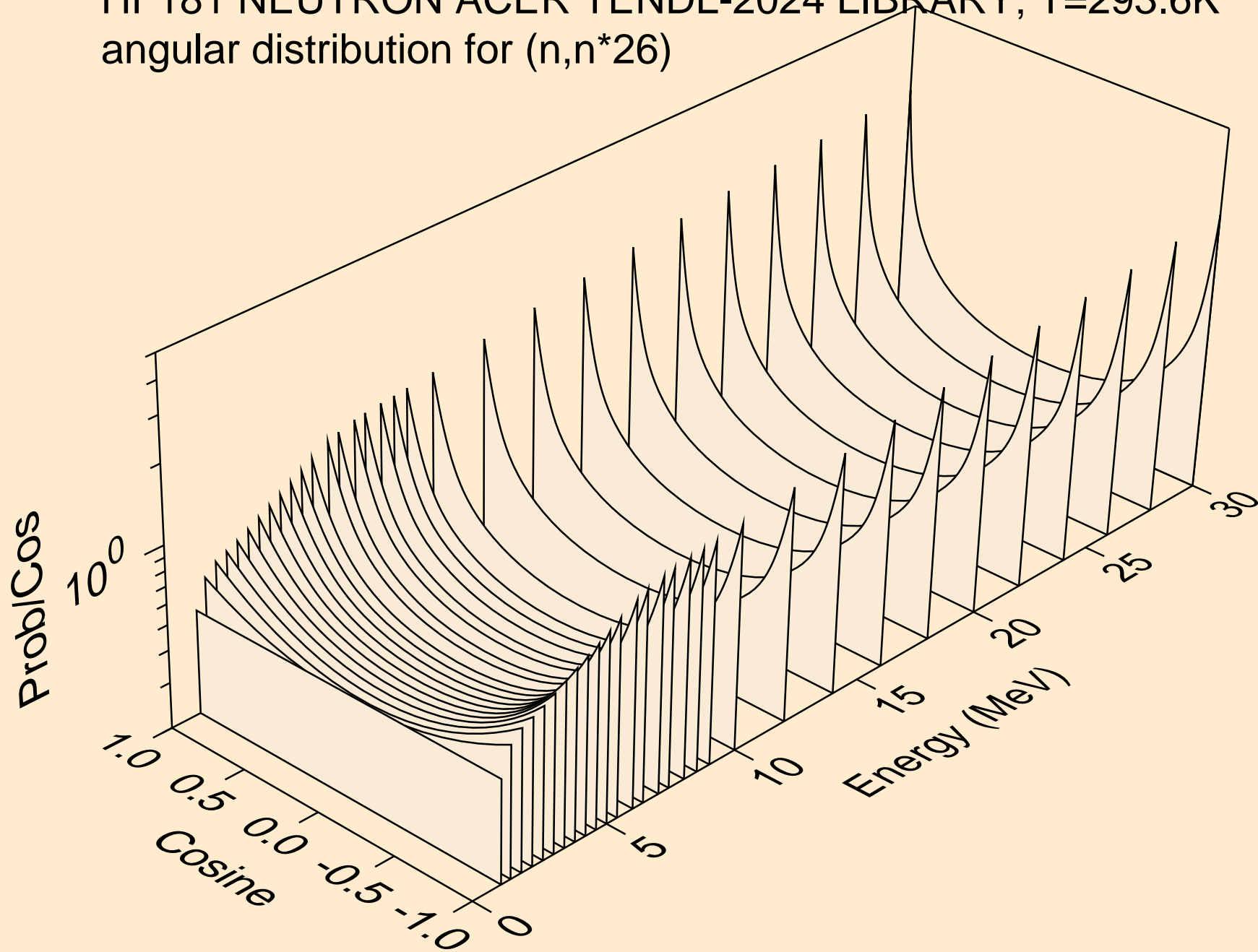
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angular distribution for (n,n\*24)



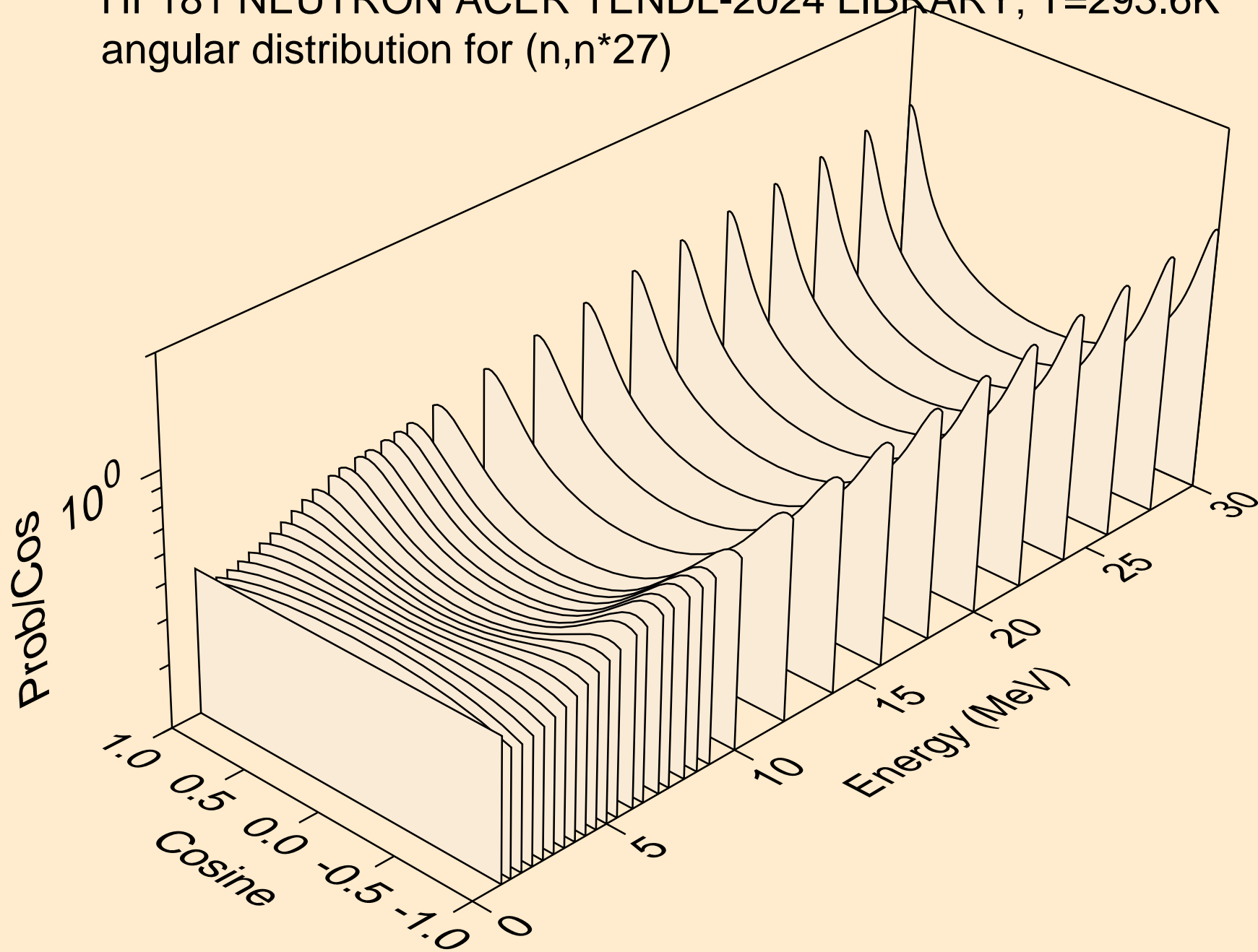
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angular distribution for (n,n\*25)



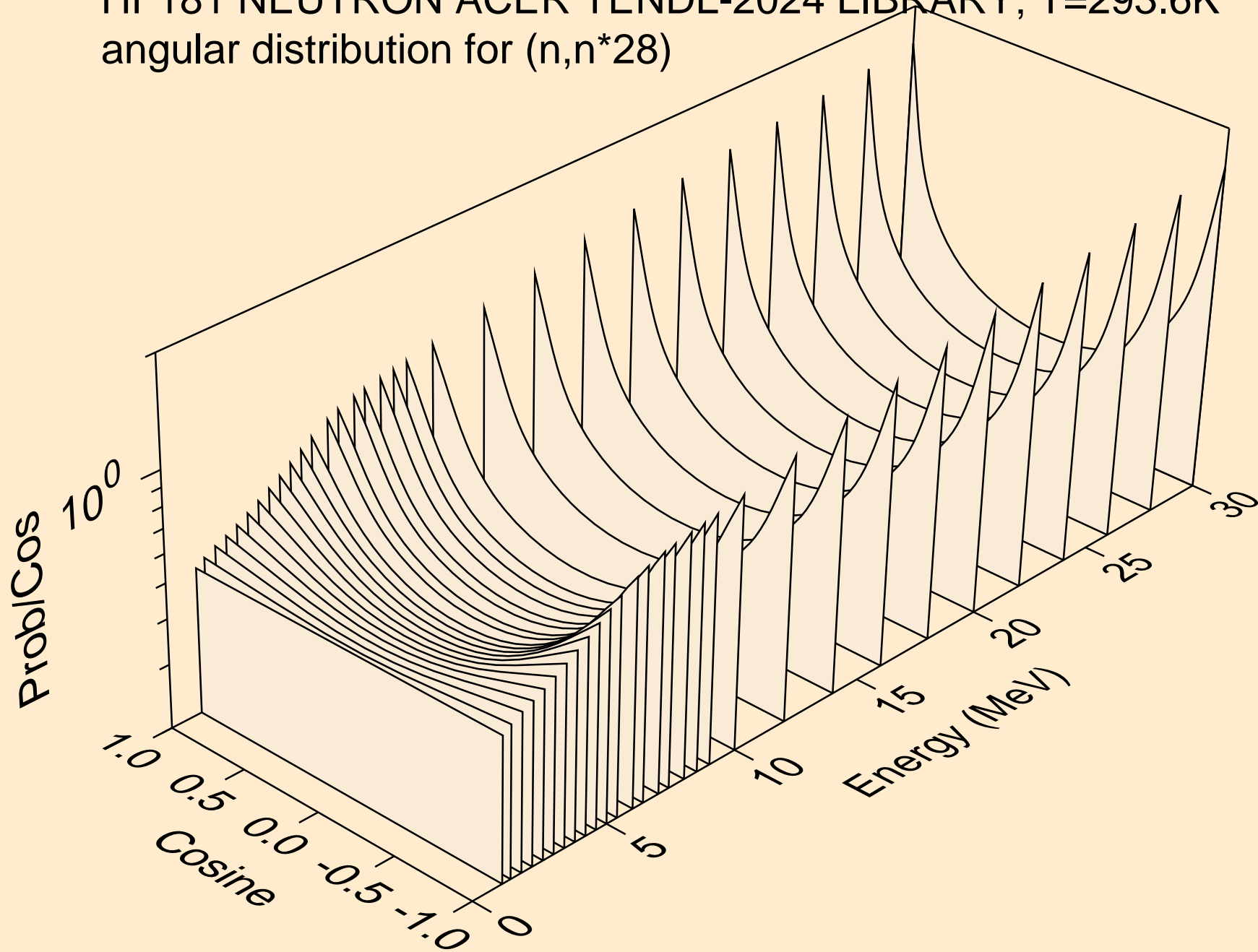
HF181 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
angular distribution for (n,n\*26)



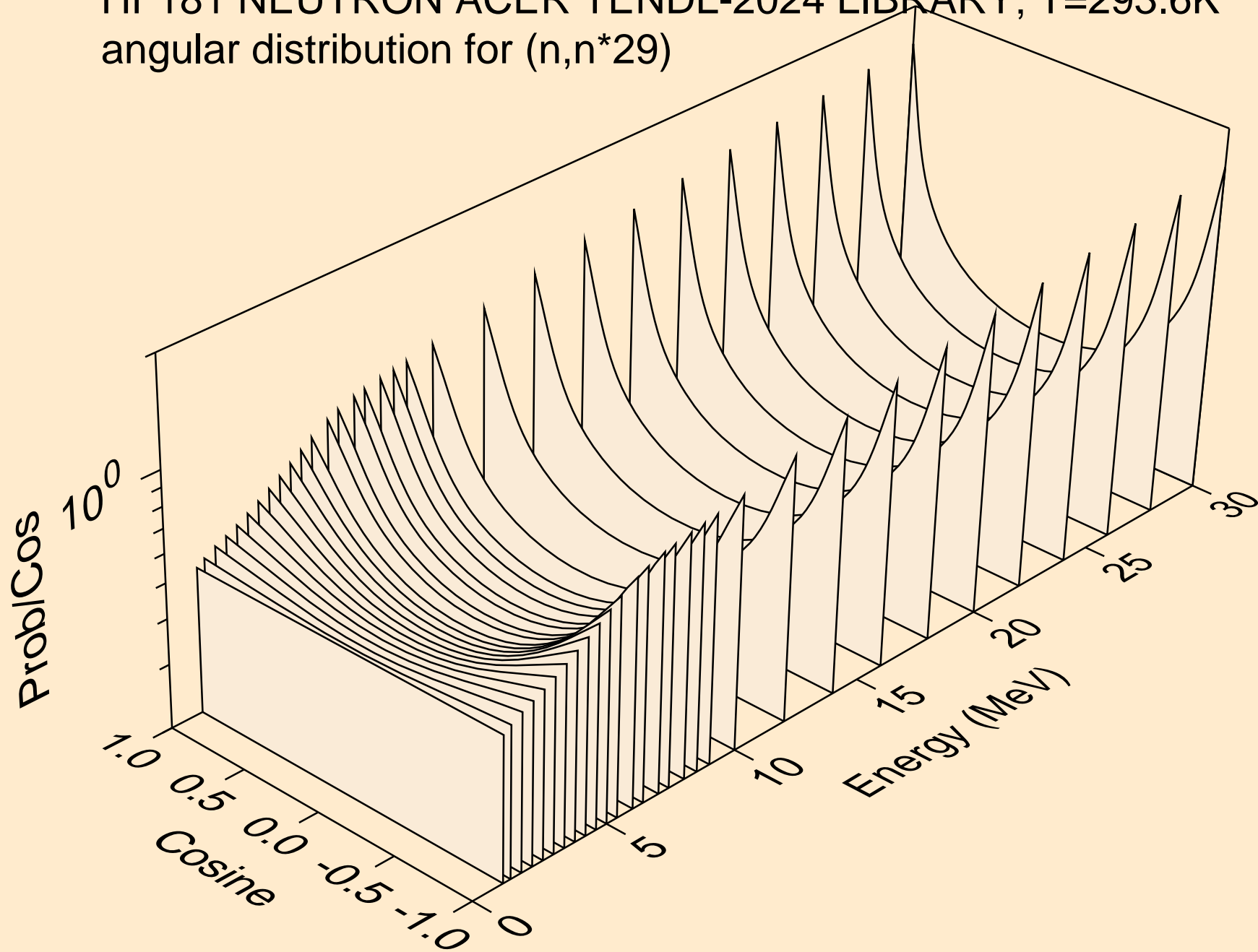
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angular distribution for (n,n\*27)



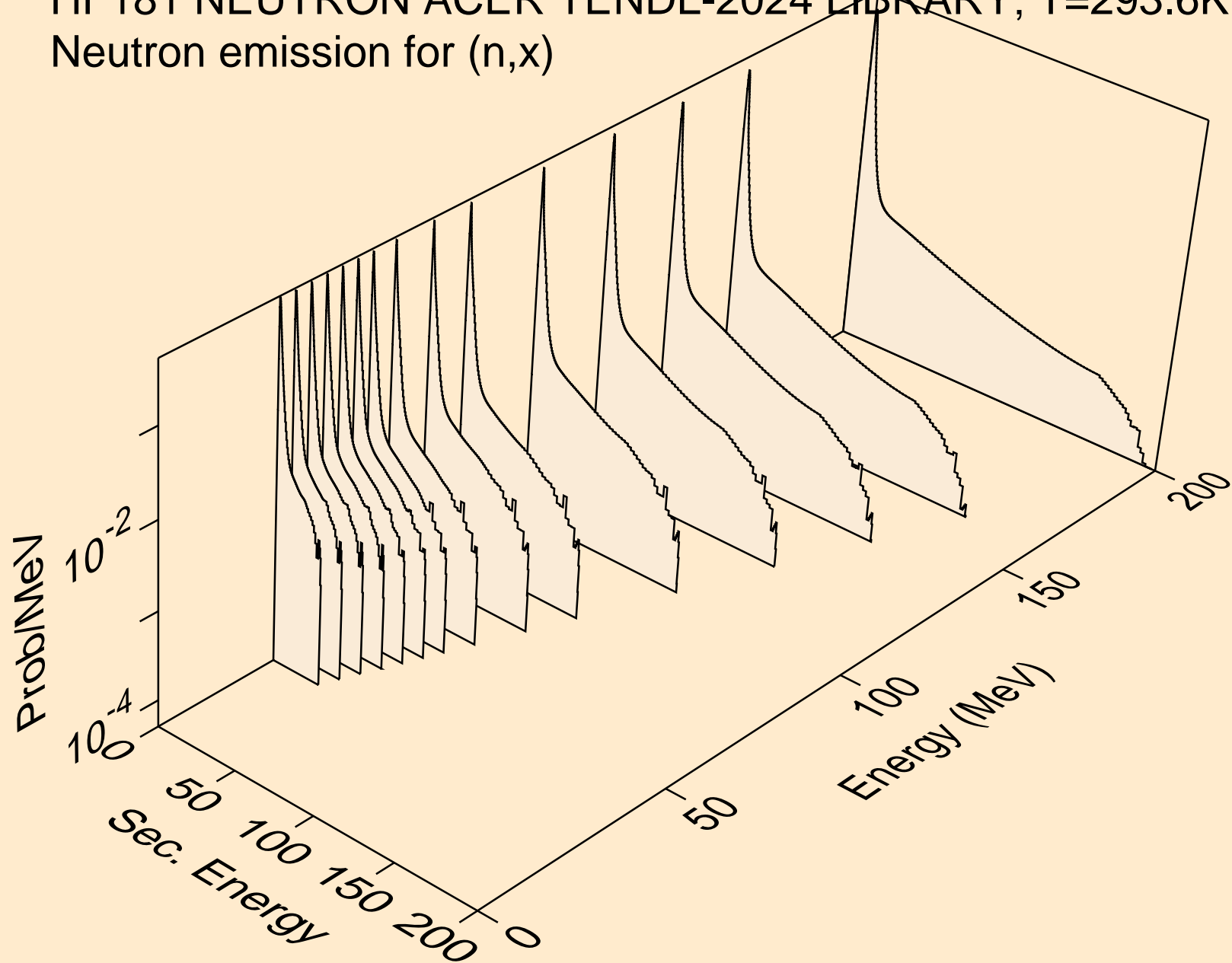
HF181 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
angular distribution for (n,n\*28)



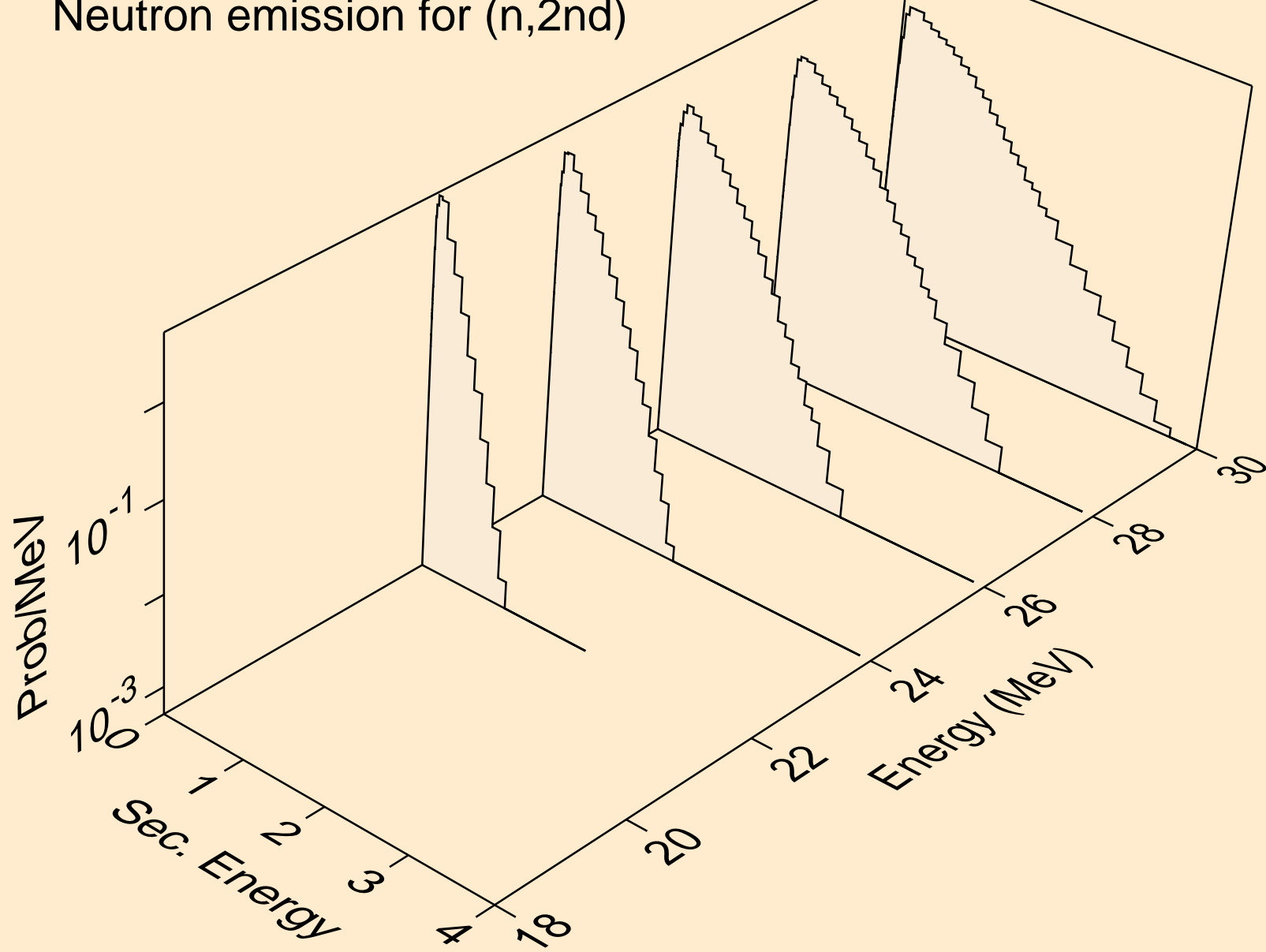
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angular distribution for (n,n\*29)



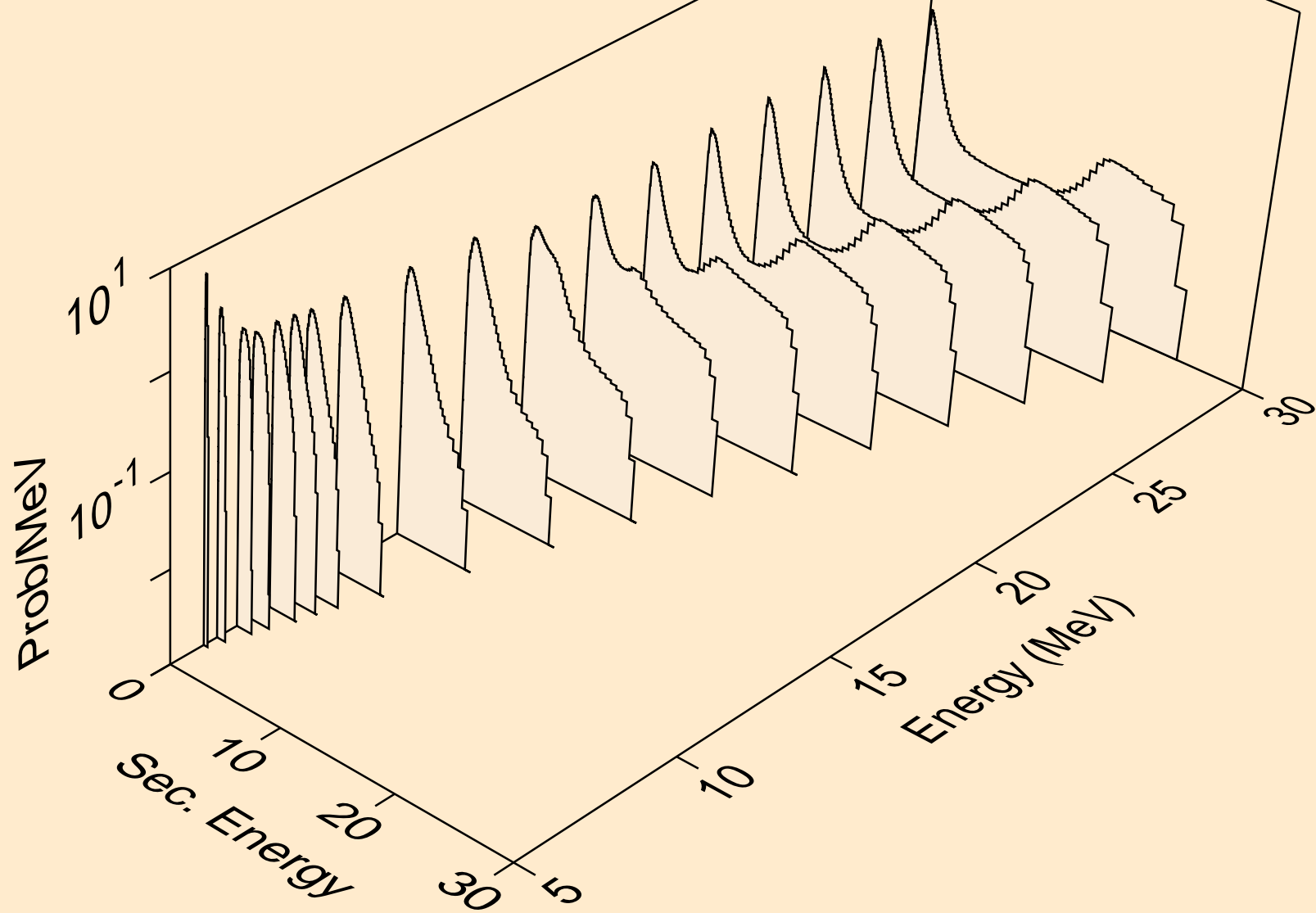
HF181 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Neutron emission for (n,x)



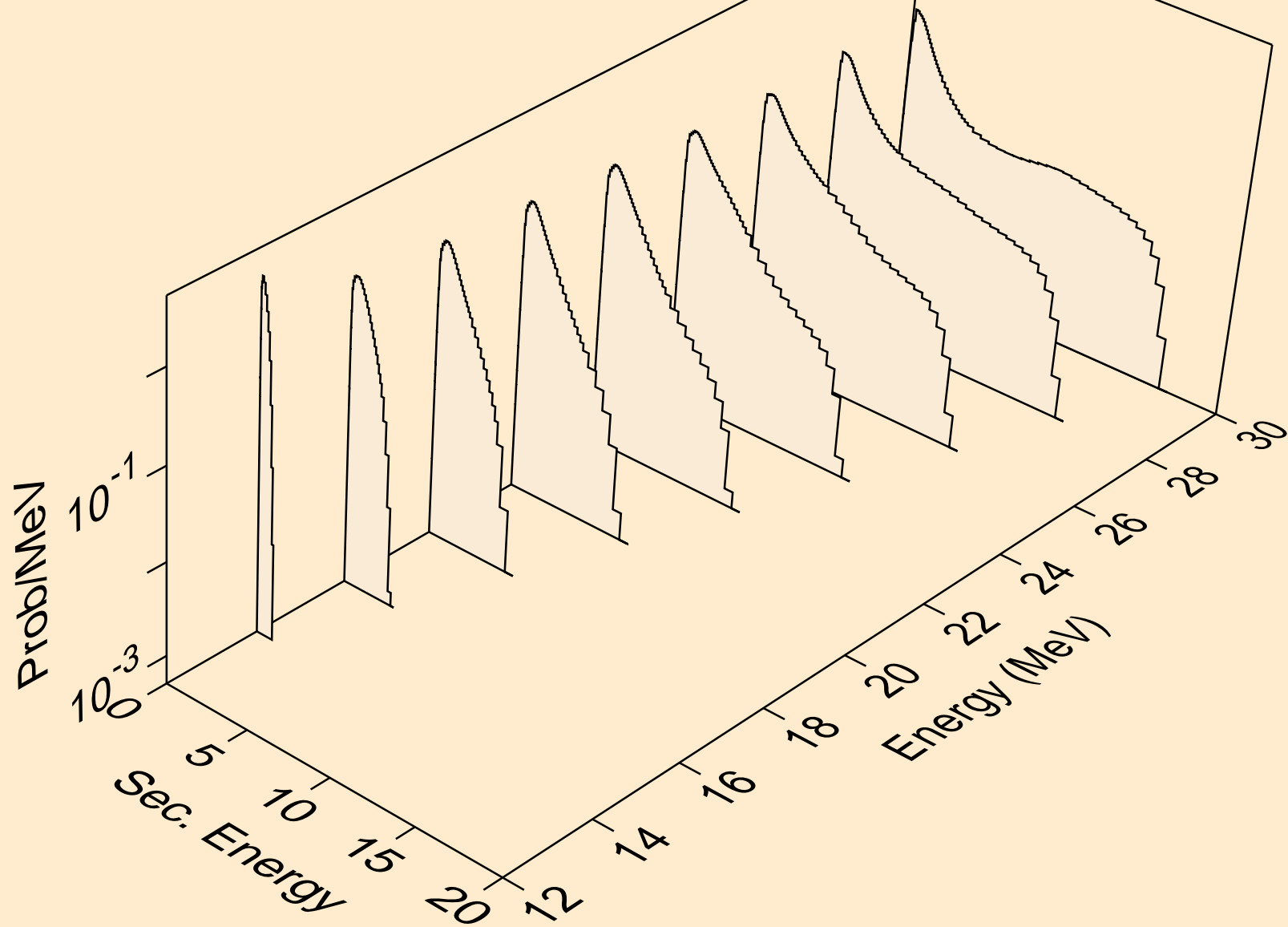
HF181 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Neutron emission for (n,2nd)



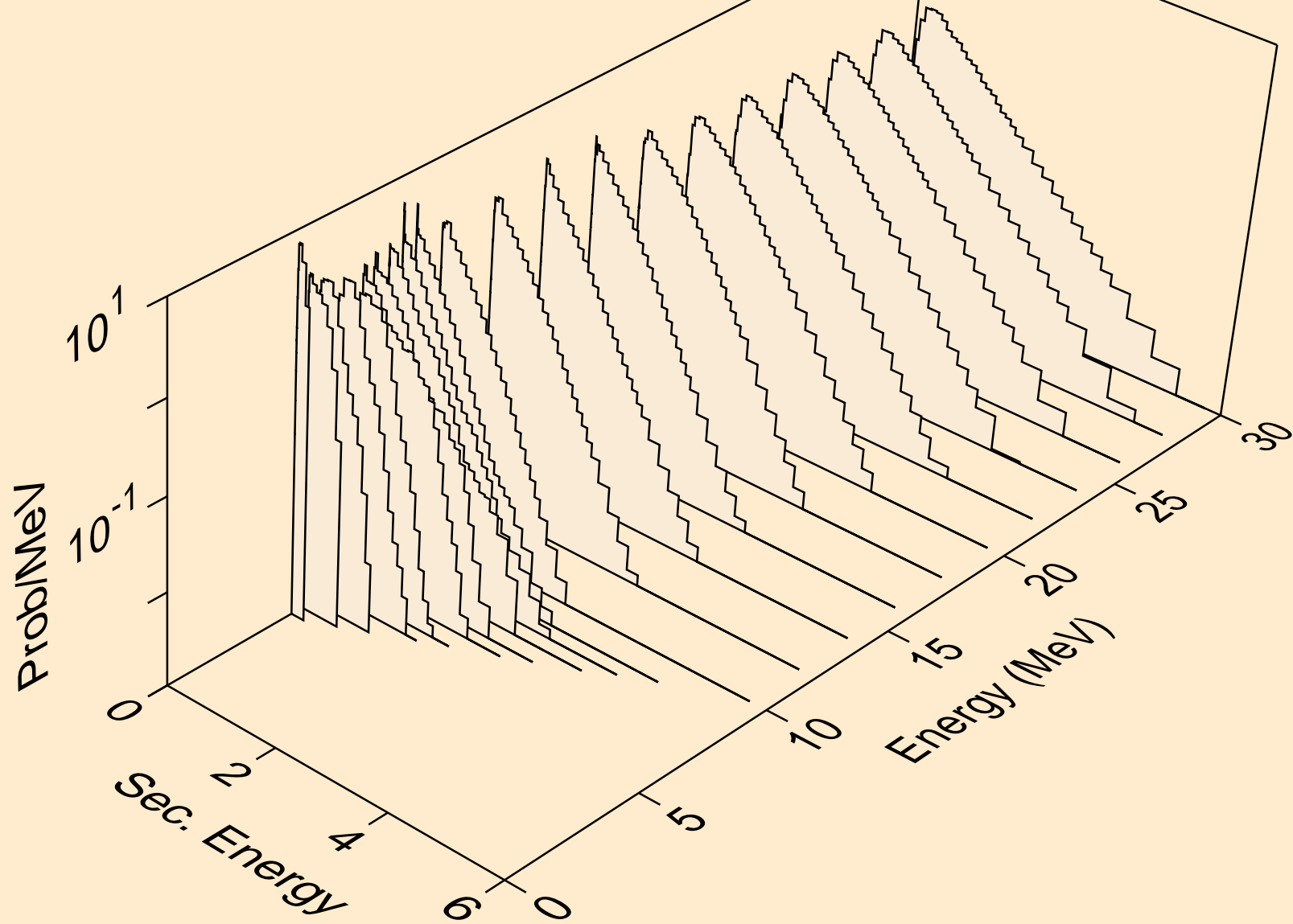
HF181 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Neutron emission for (n,2n)



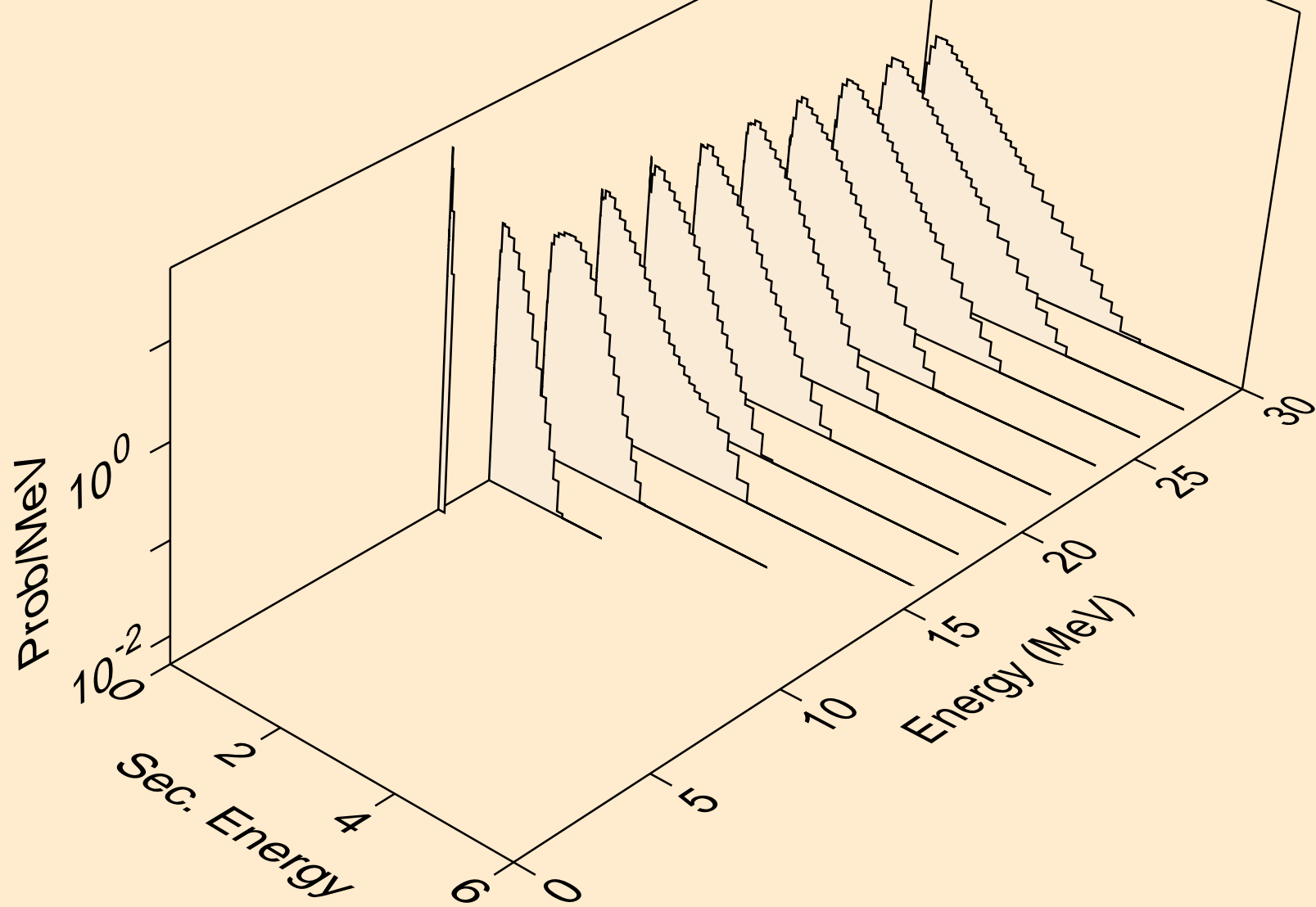
HF181 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Neutron emission for (n,3n)



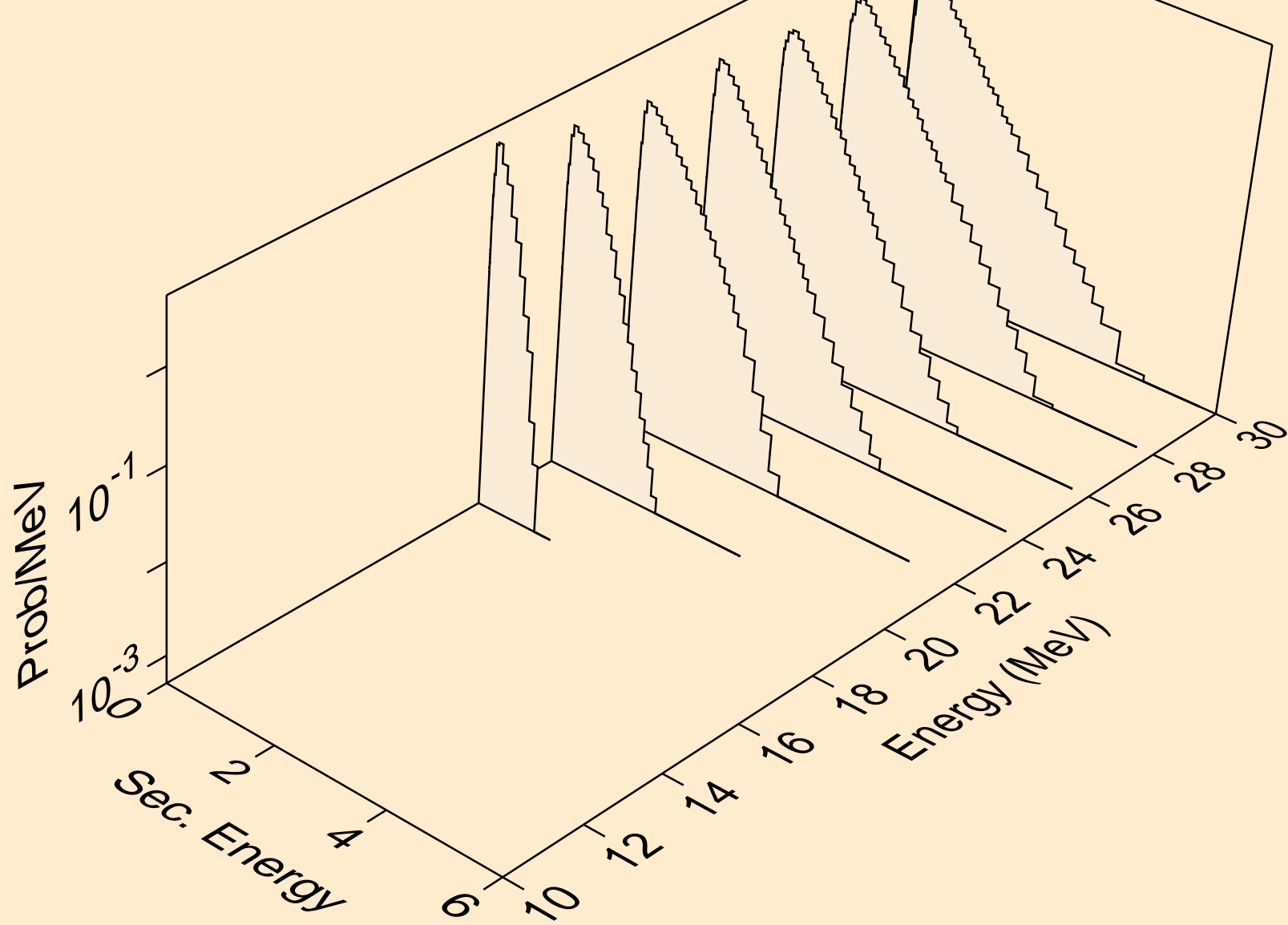
HF181 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Neutron emission for (n,n\*)a



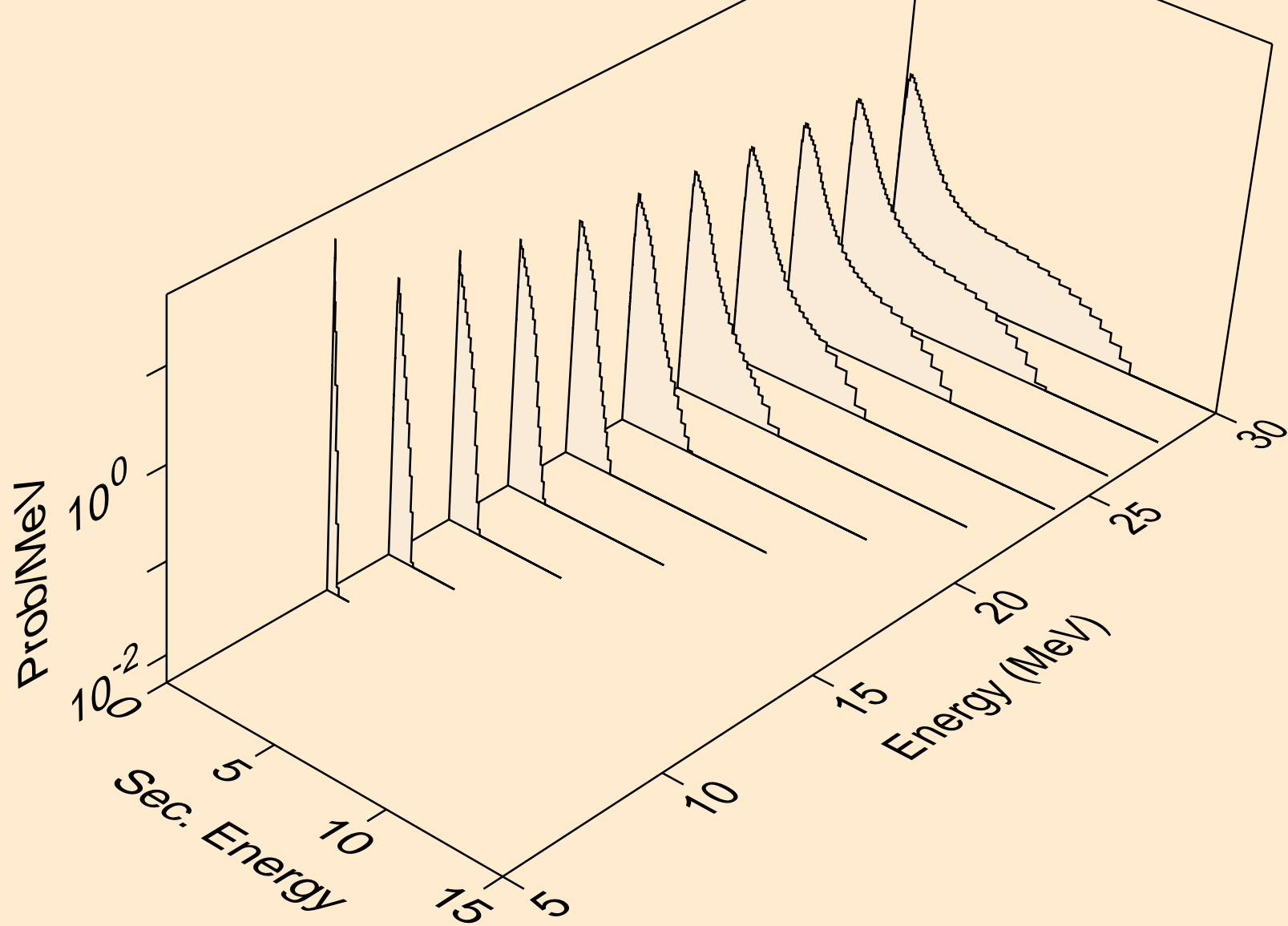
HF181 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Neutron emission for (n,2n)a



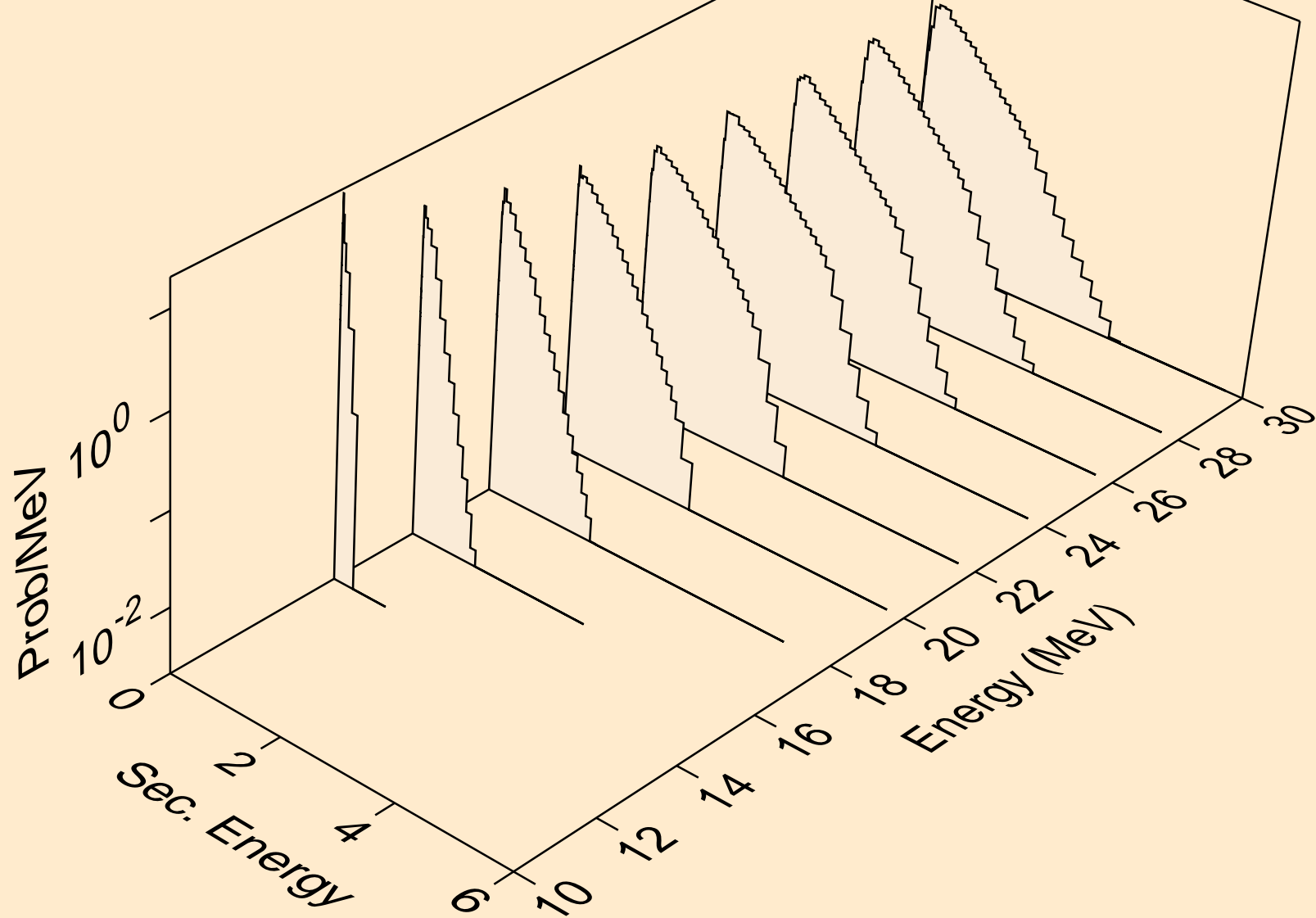
HF181 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Neutron emission for (n,3n)<sub>a</sub>



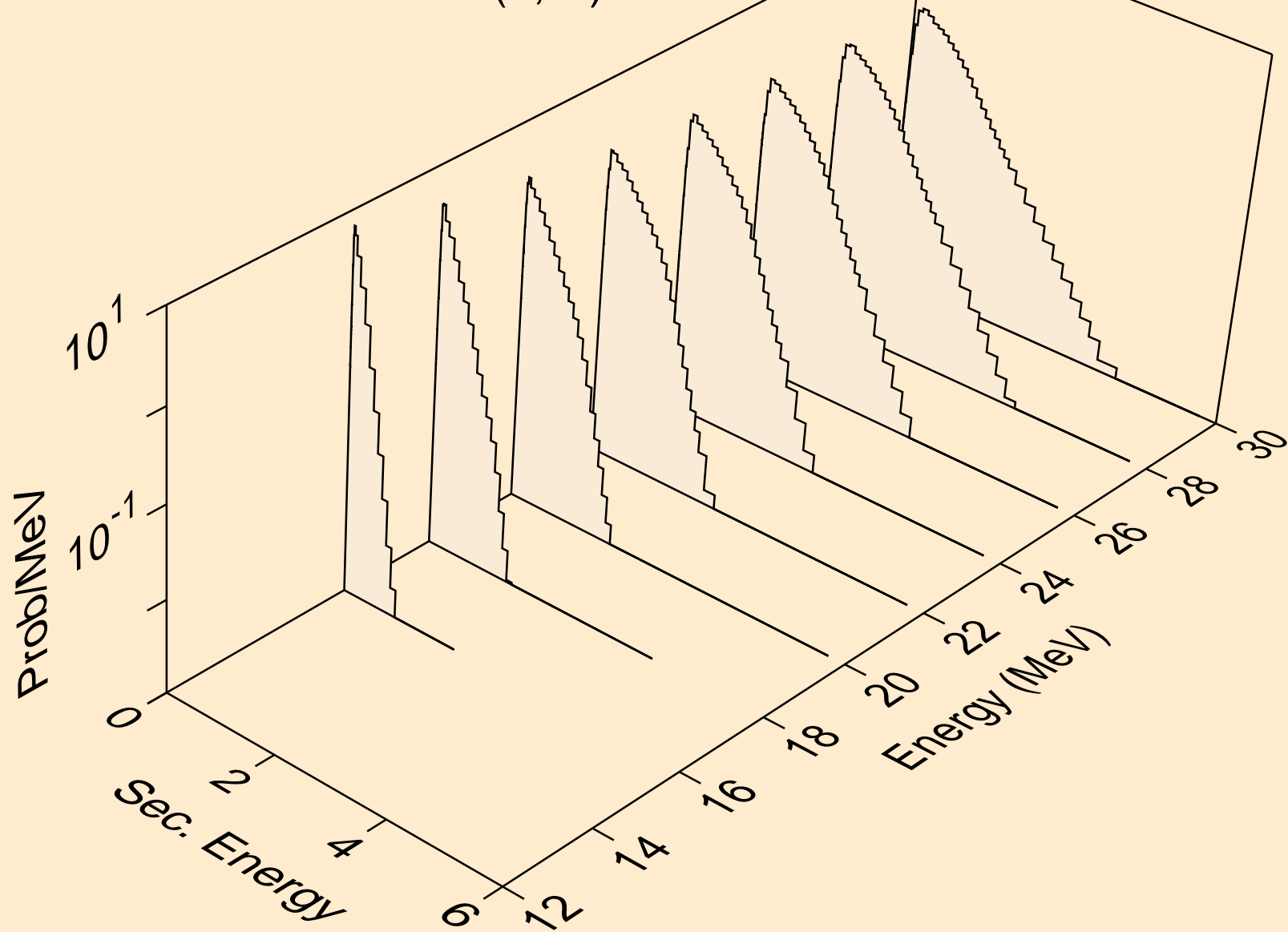
HF181 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Neutron emission for (n,n\*)p



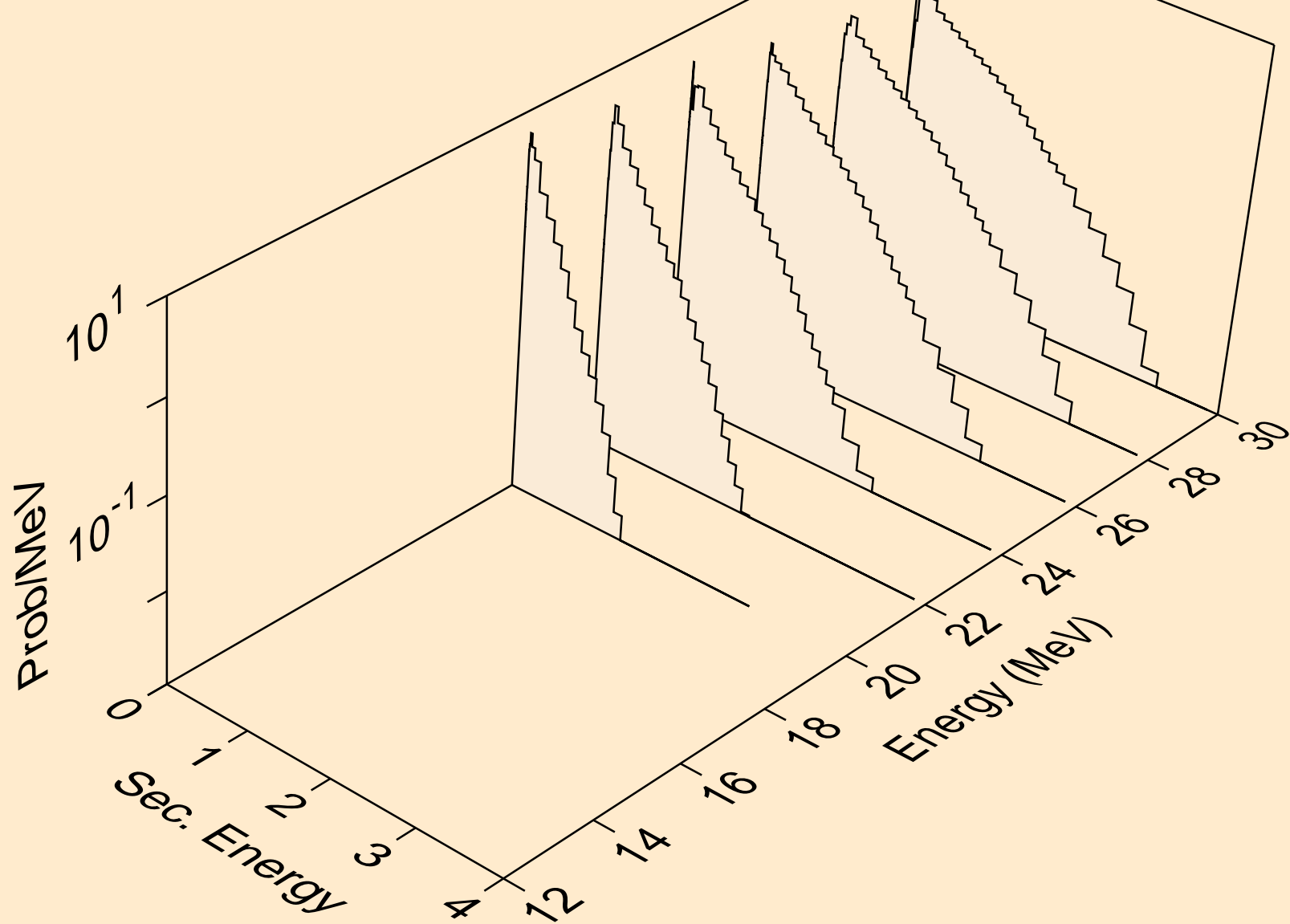
HF181 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Neutron emission for (n,n\*)d



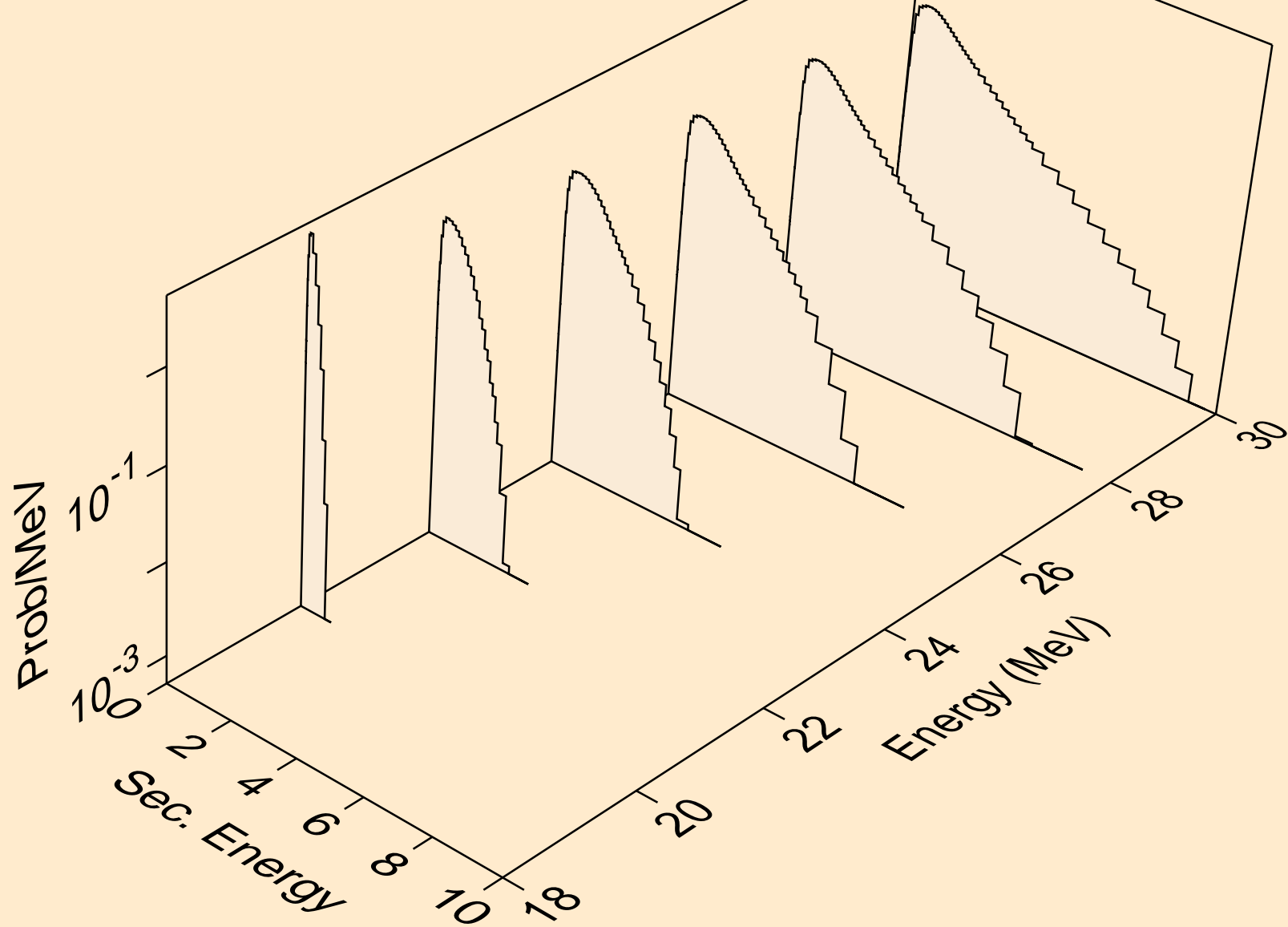
HF181 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Neutron emission for (n,n\*)t



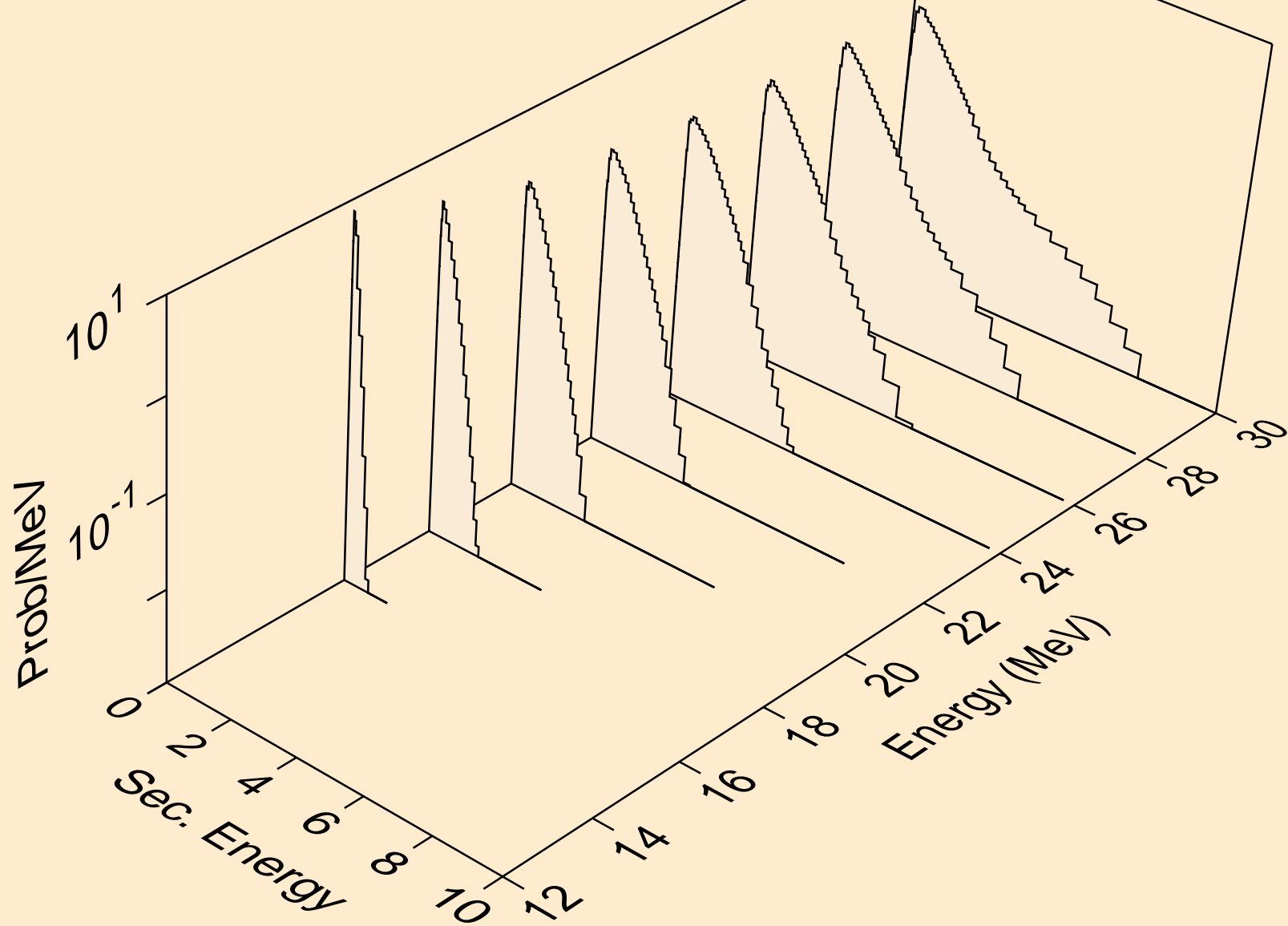
HF181 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Neutron emission for (n,n\*)he3



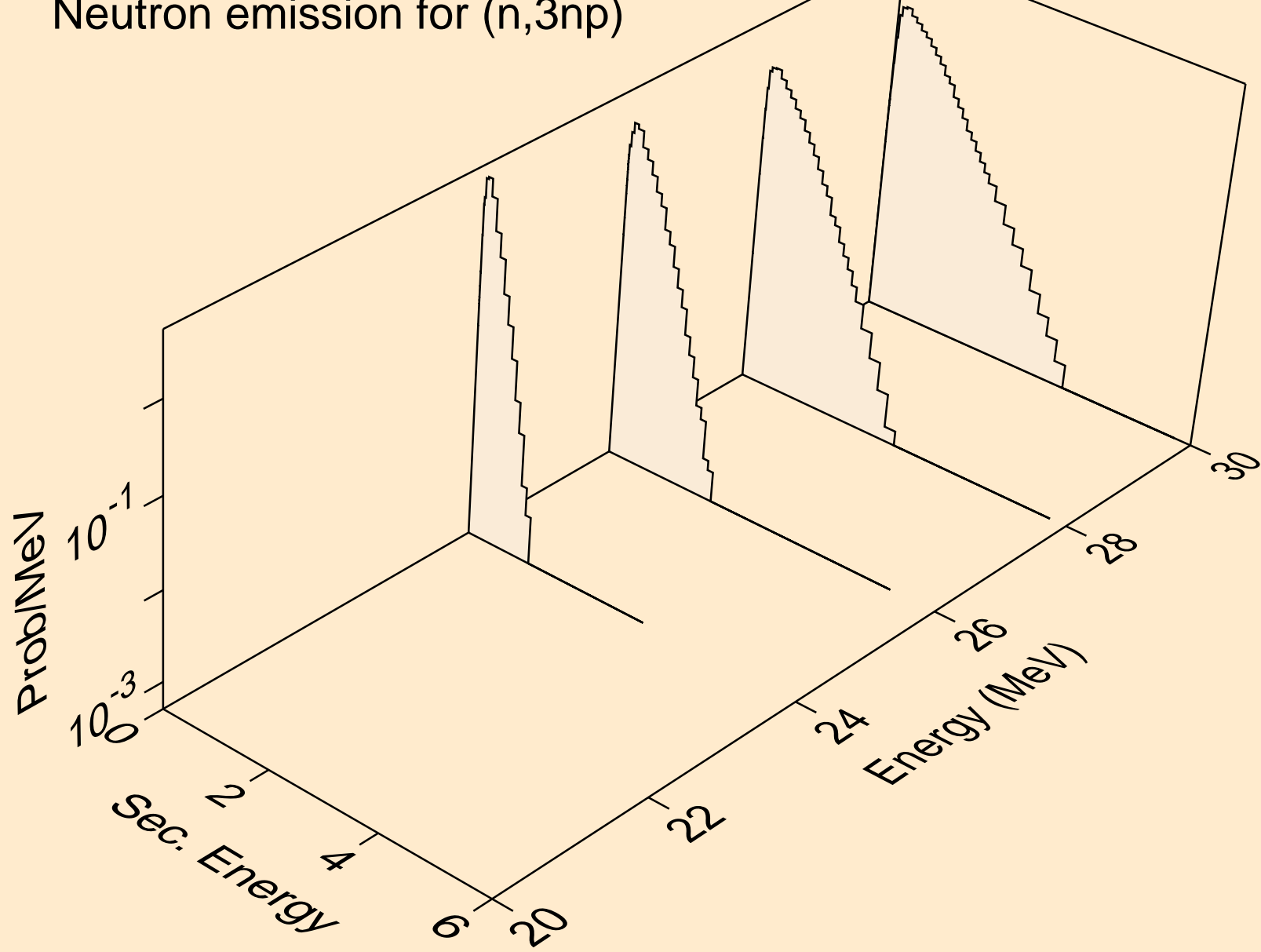
HF181 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Neutron emission for (n,4n)



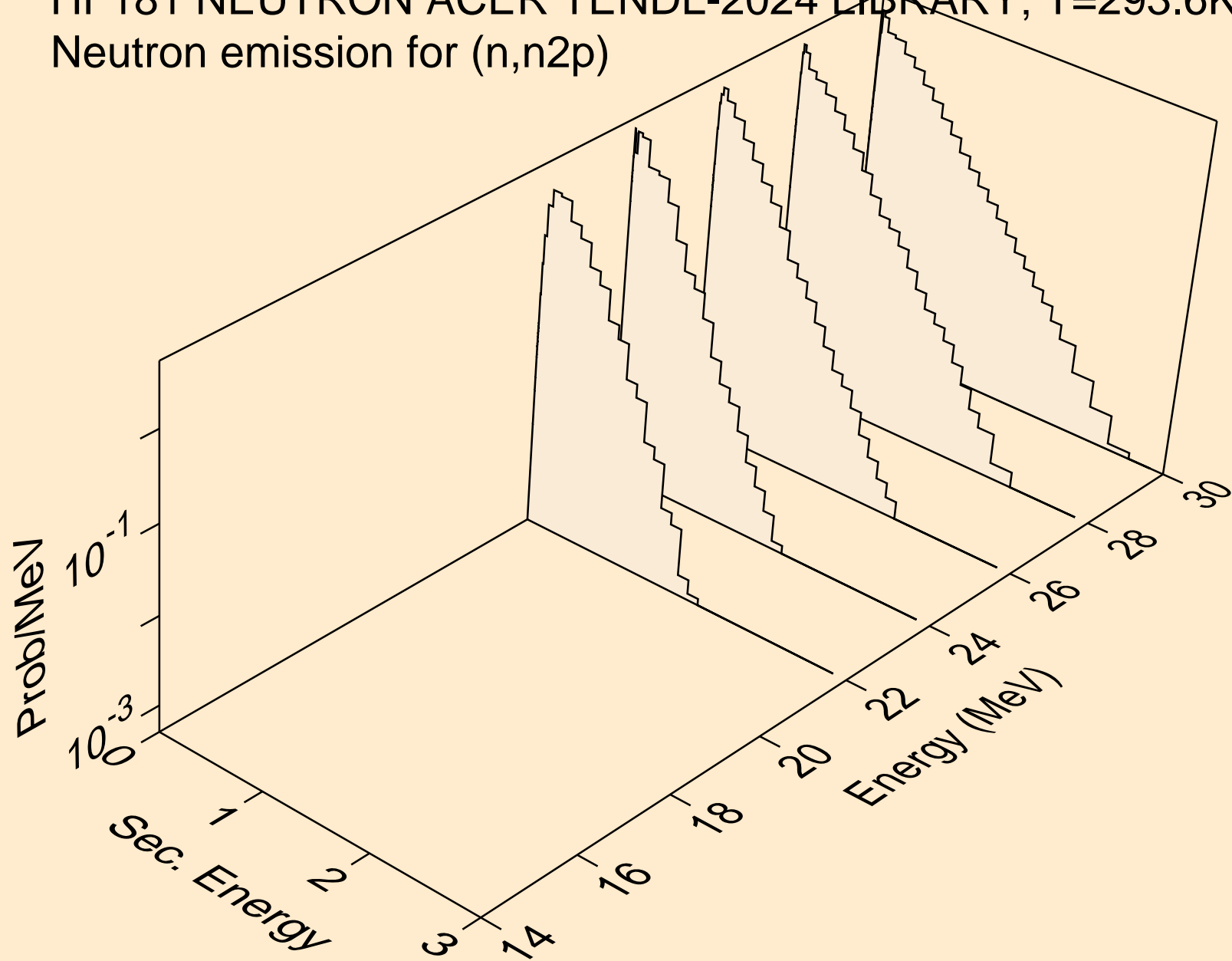
HF181 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Neutron emission for (n,2np)



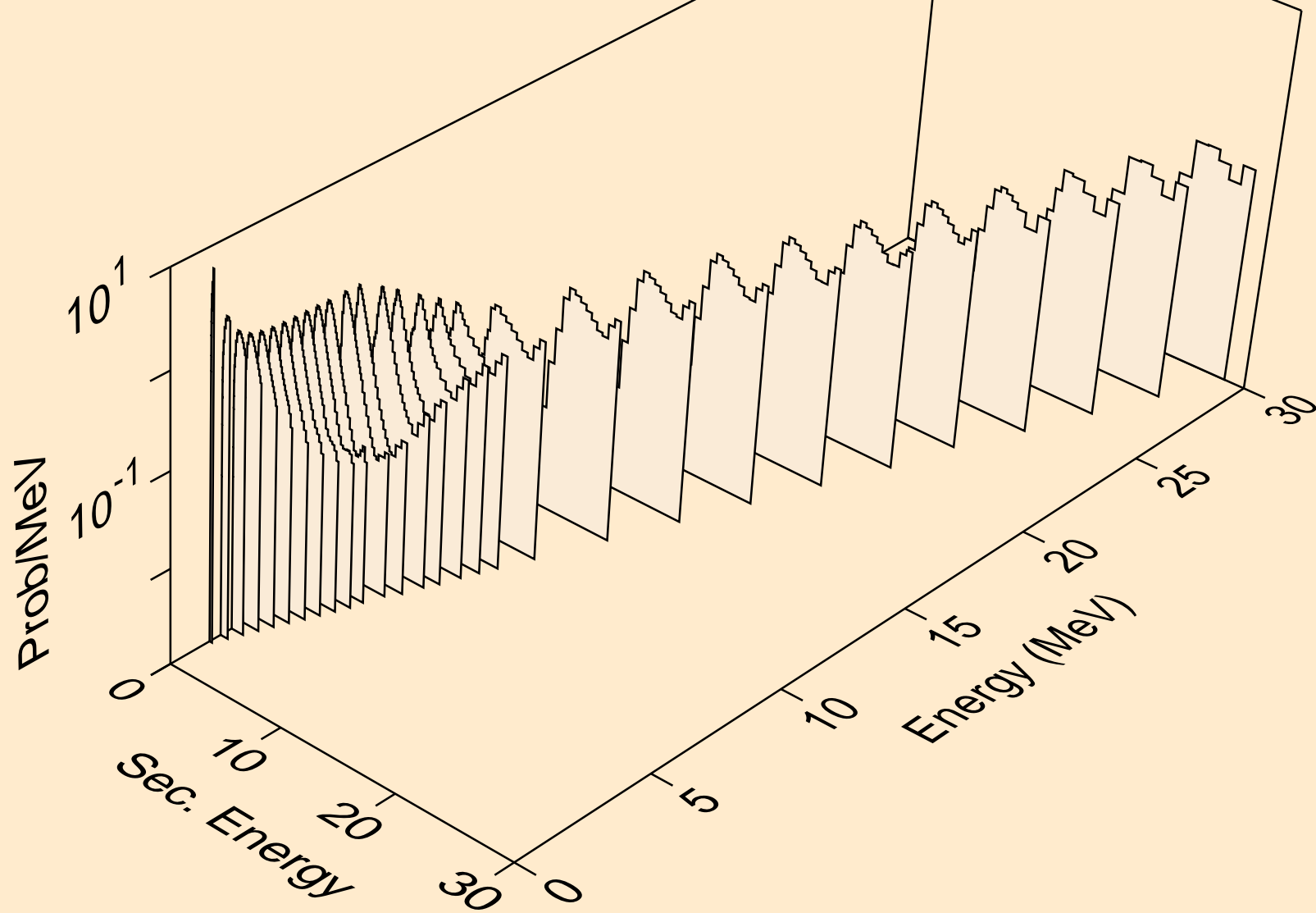
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Neutron emission for (n,3np)



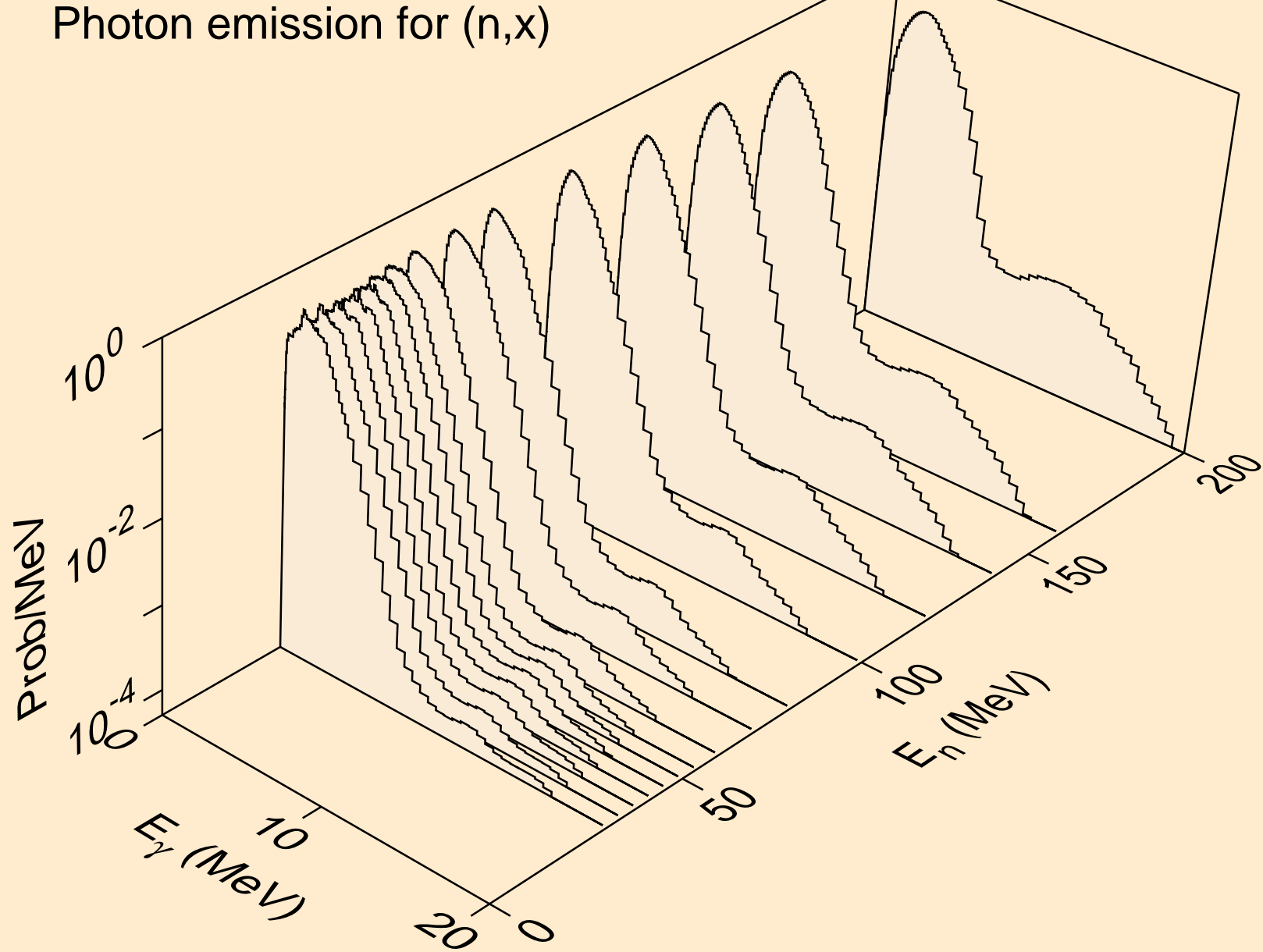
HF181 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Neutron emission for (n,n2p)



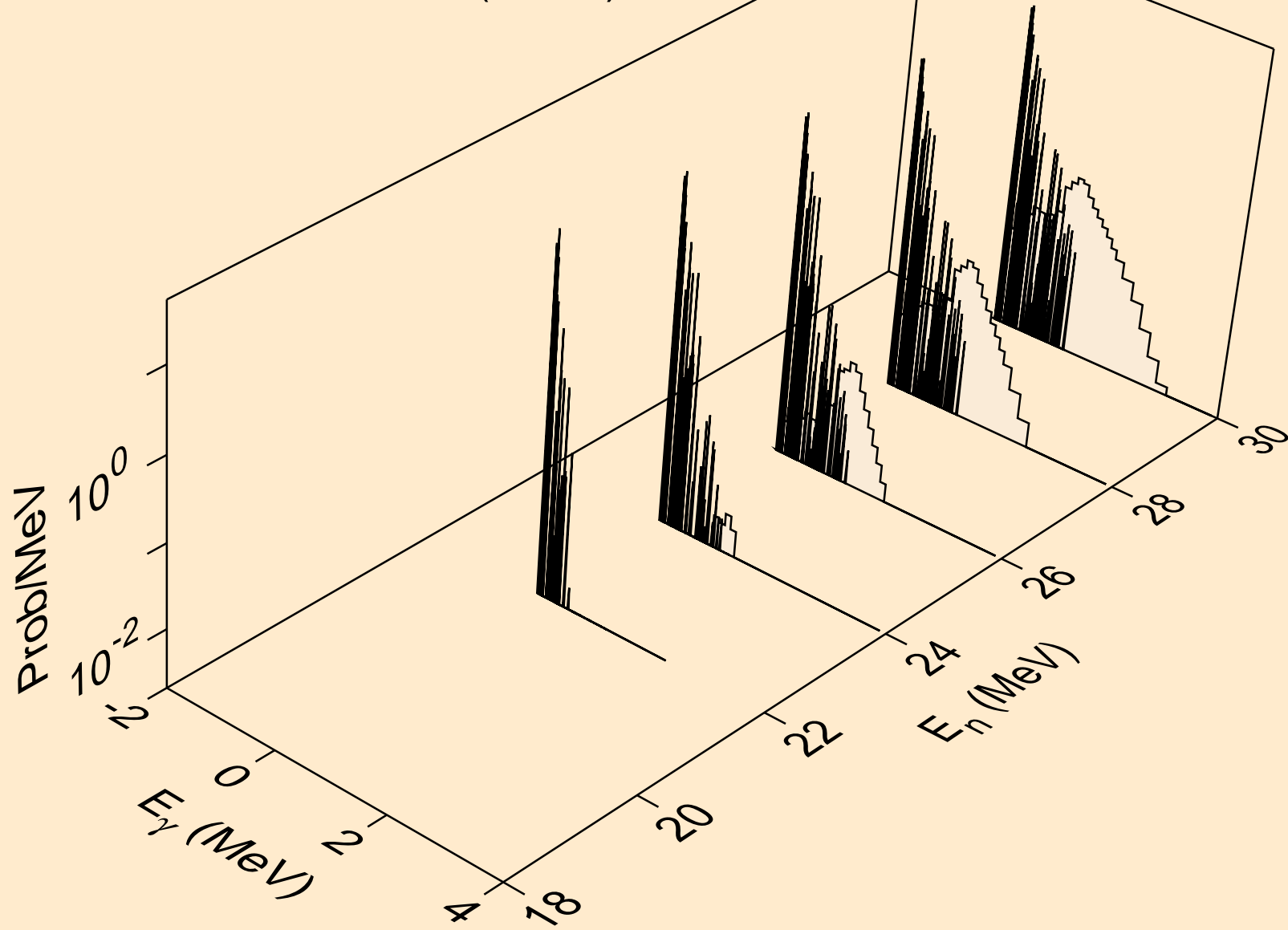
HF181 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Neutron emission for (n,n\*c)



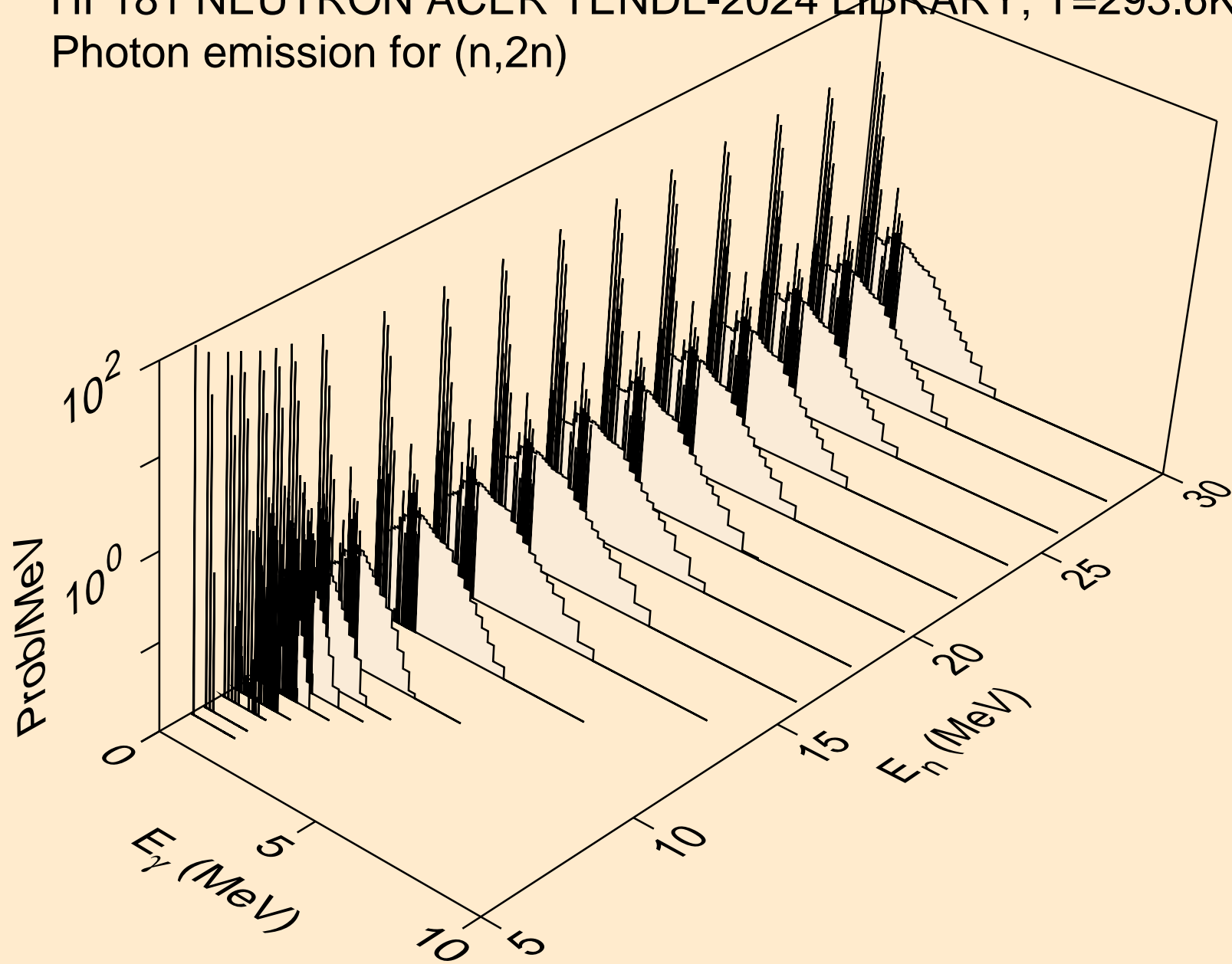
HF181 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Photon emission for (n,x)



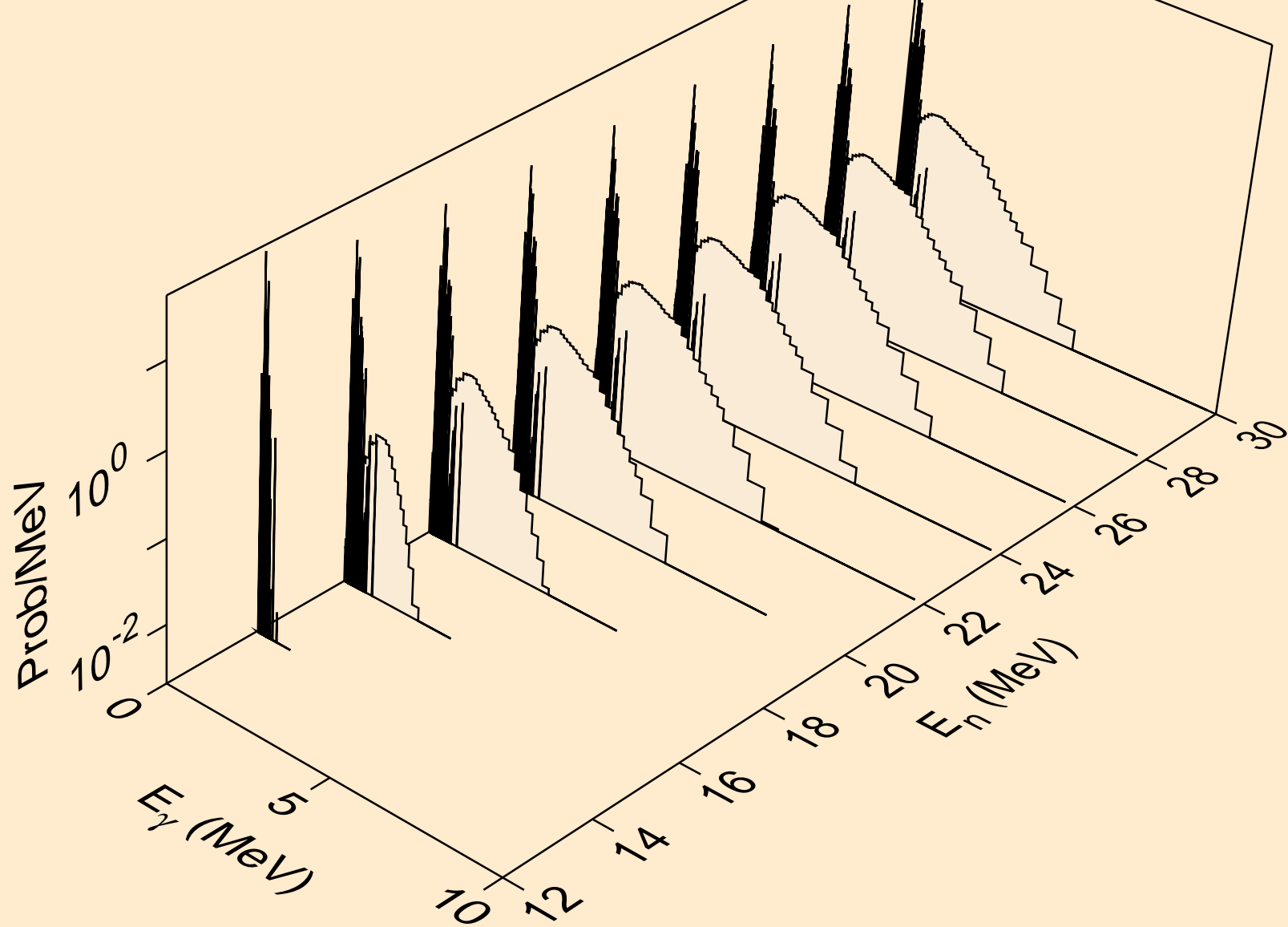
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Photon emission for (n,2nd)



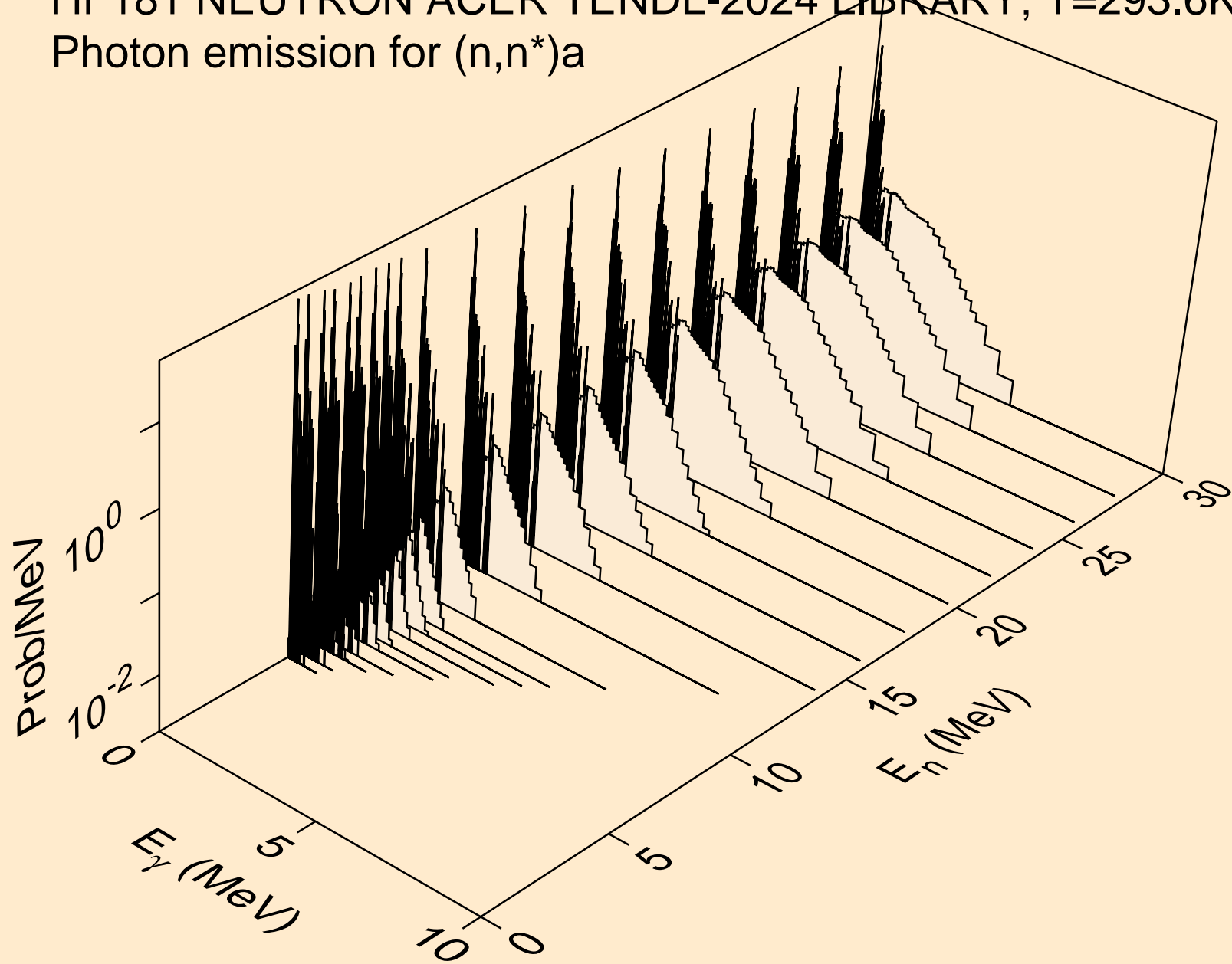
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Photon emission for (n,2n)



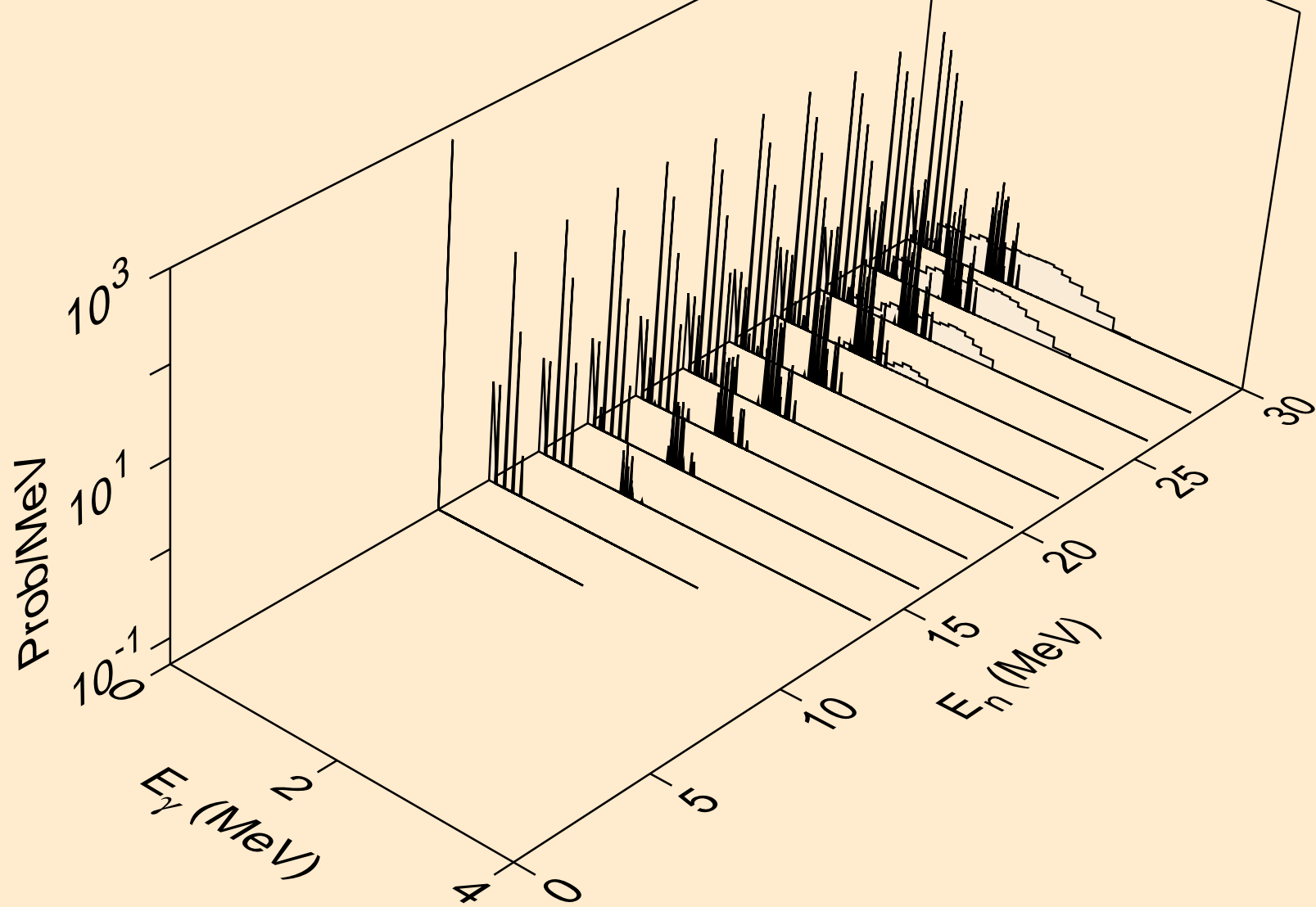
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Photon emission for (n,3n)



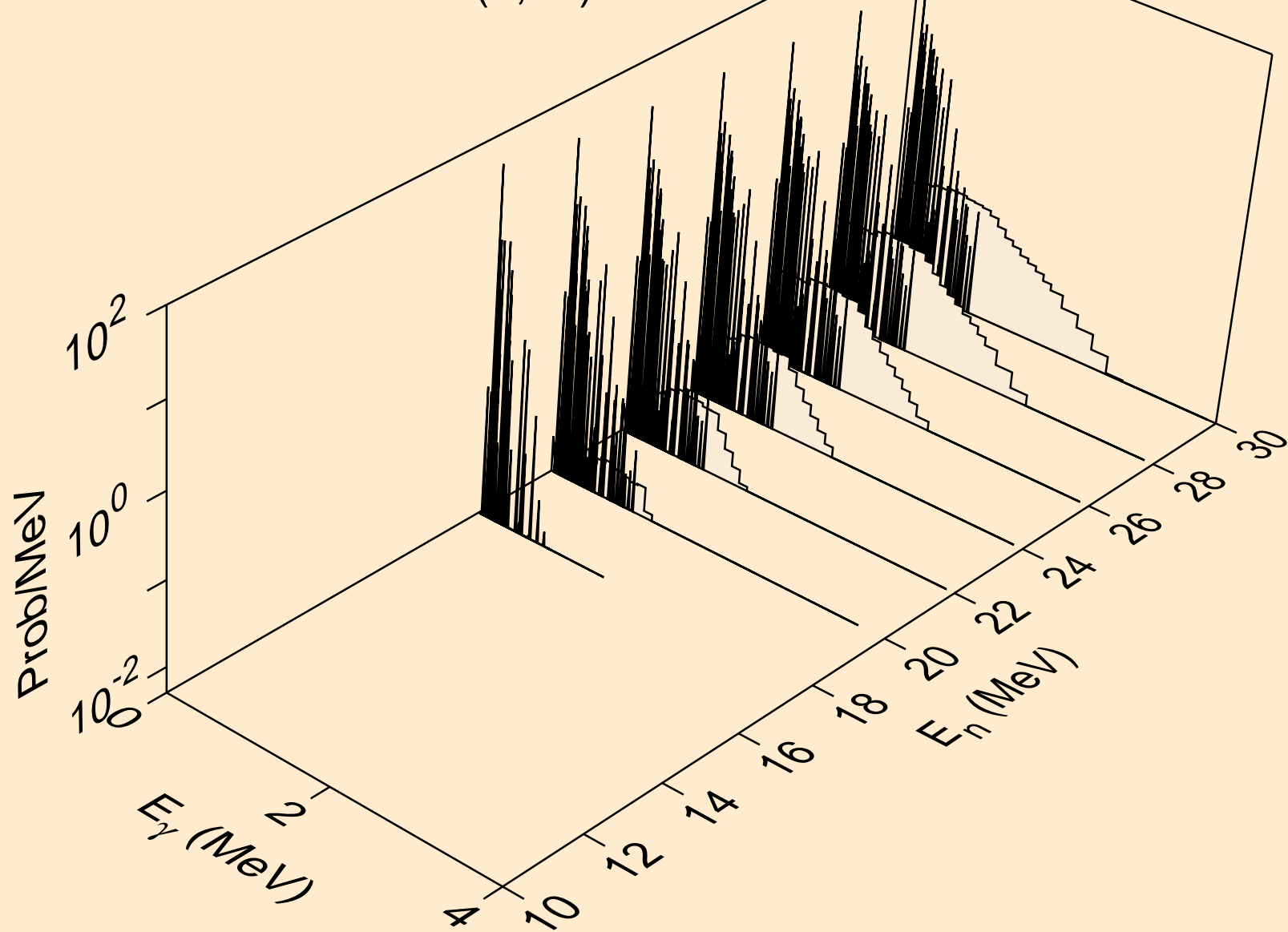
HF181 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Photon emission for (n,n\*)a



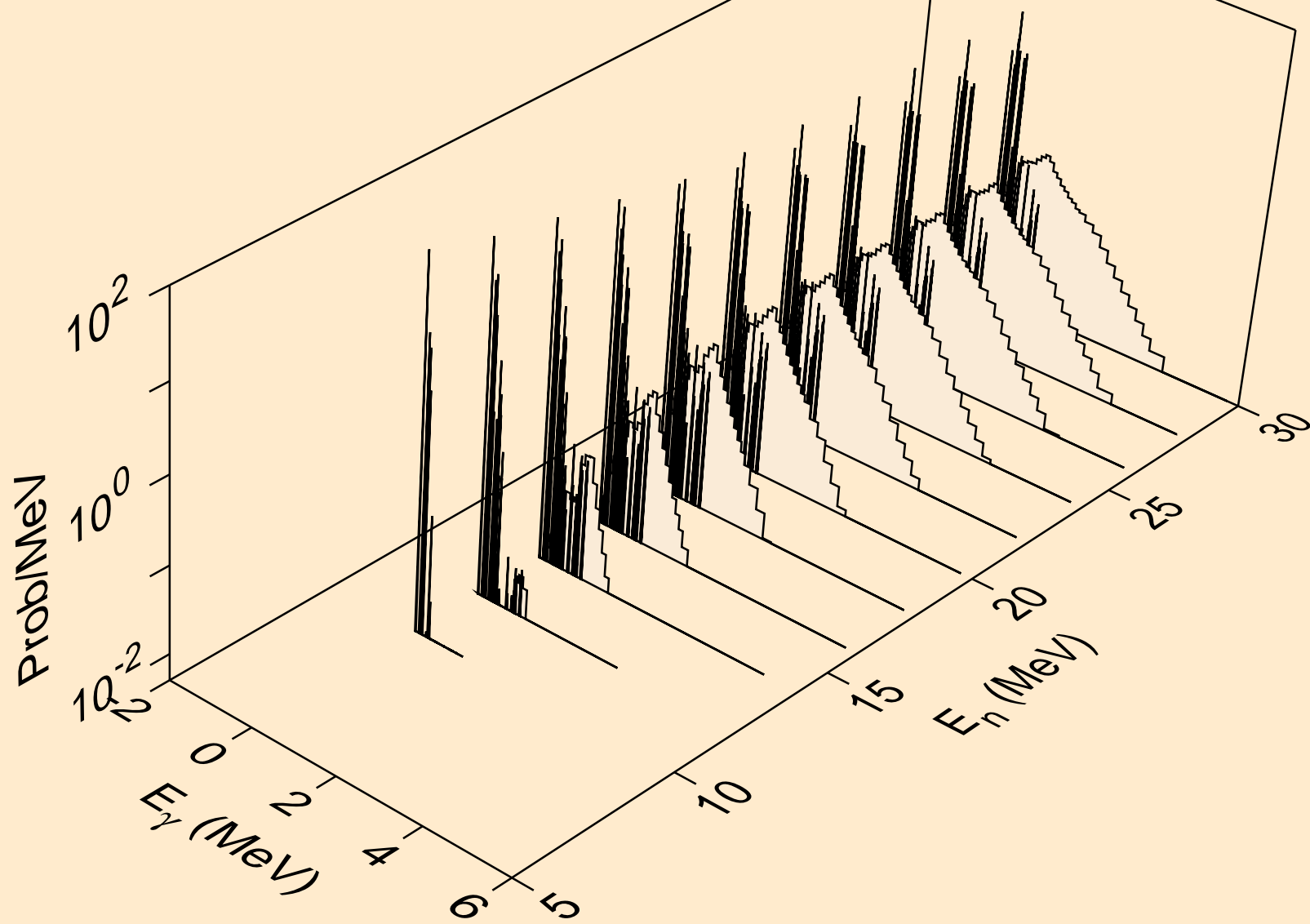
HF181 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Photon emission for (n,2n)a



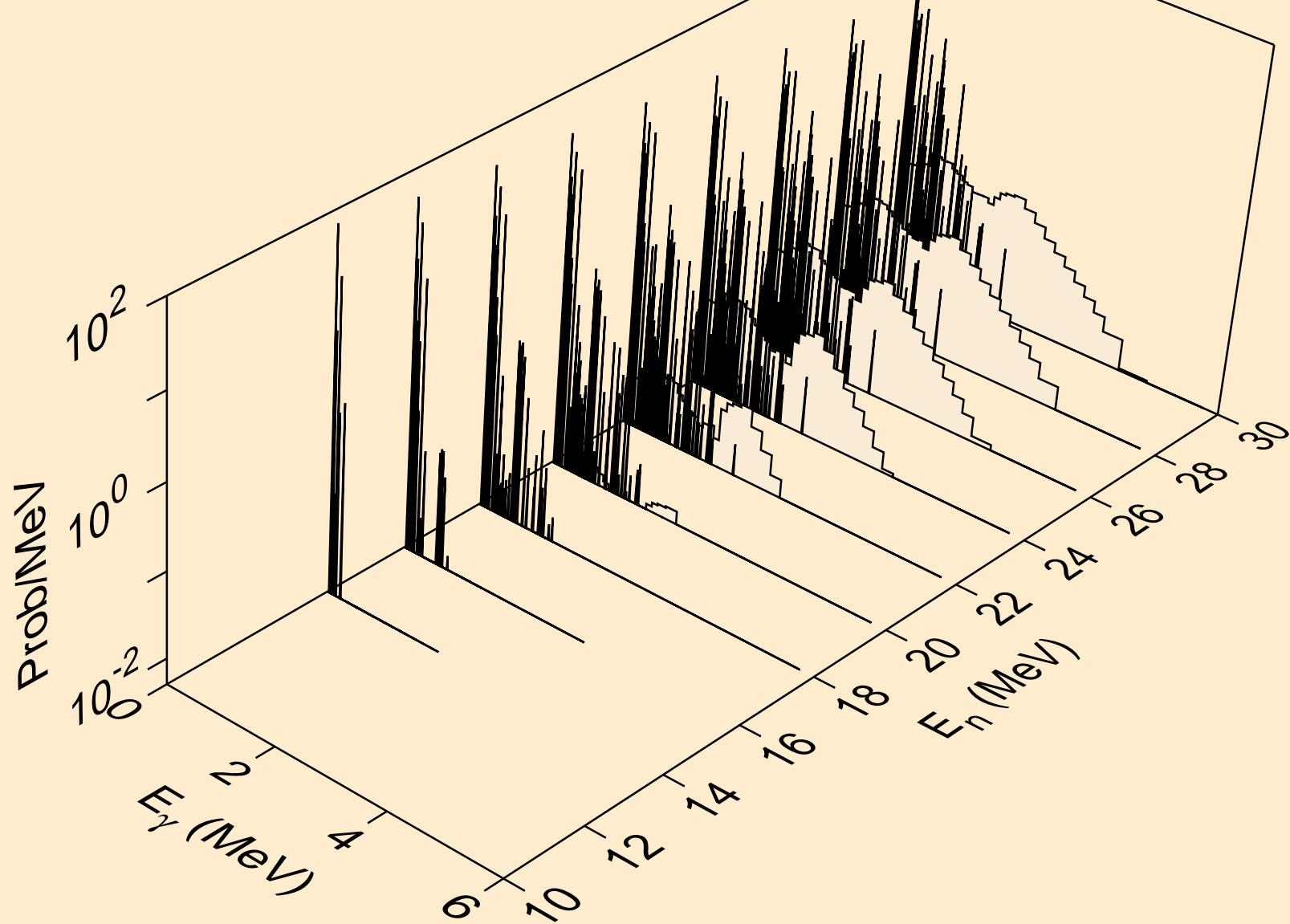
HF181 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Photon emission for (n,3n)a



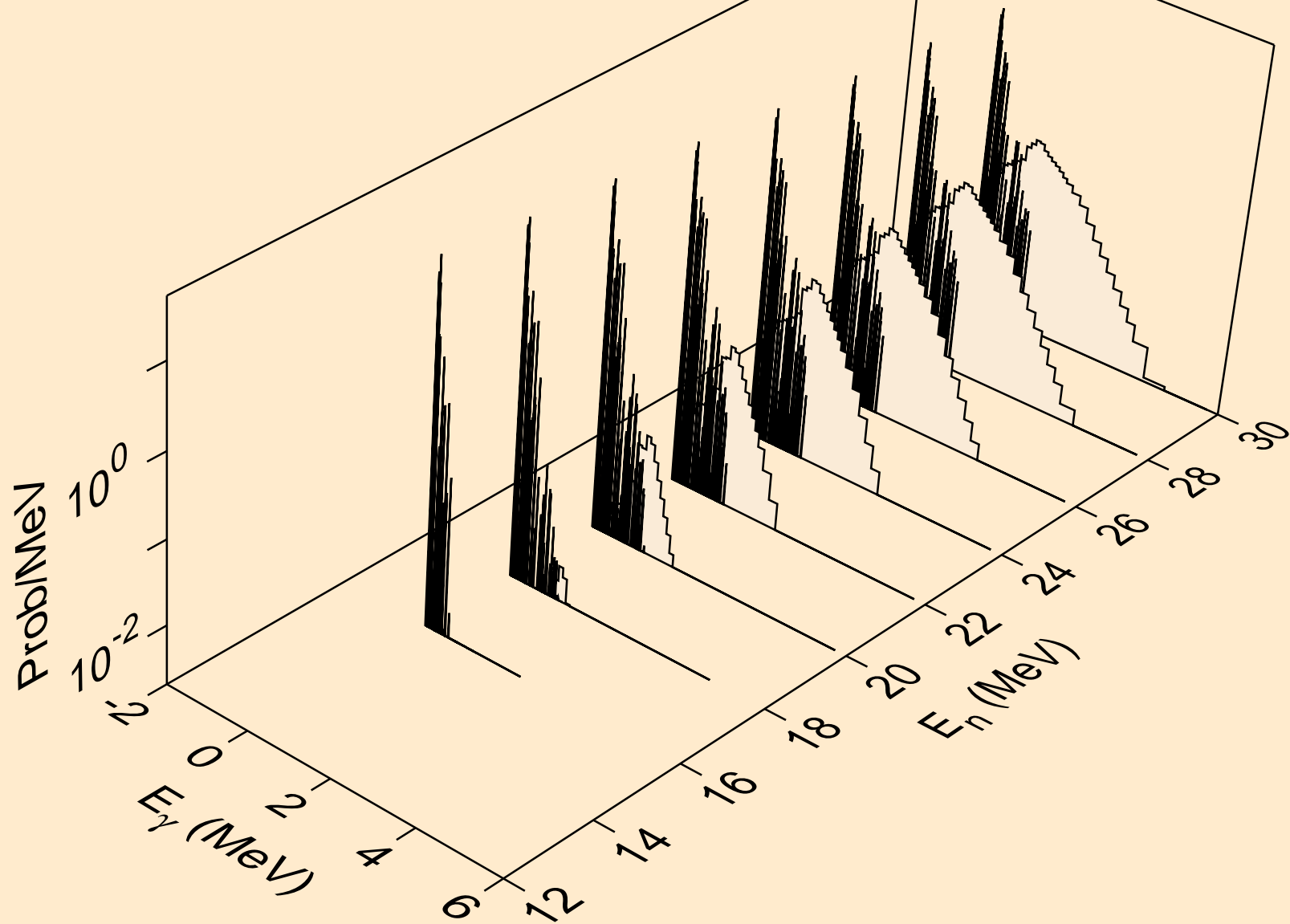
HF181 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Photon emission for (n,n\*)p



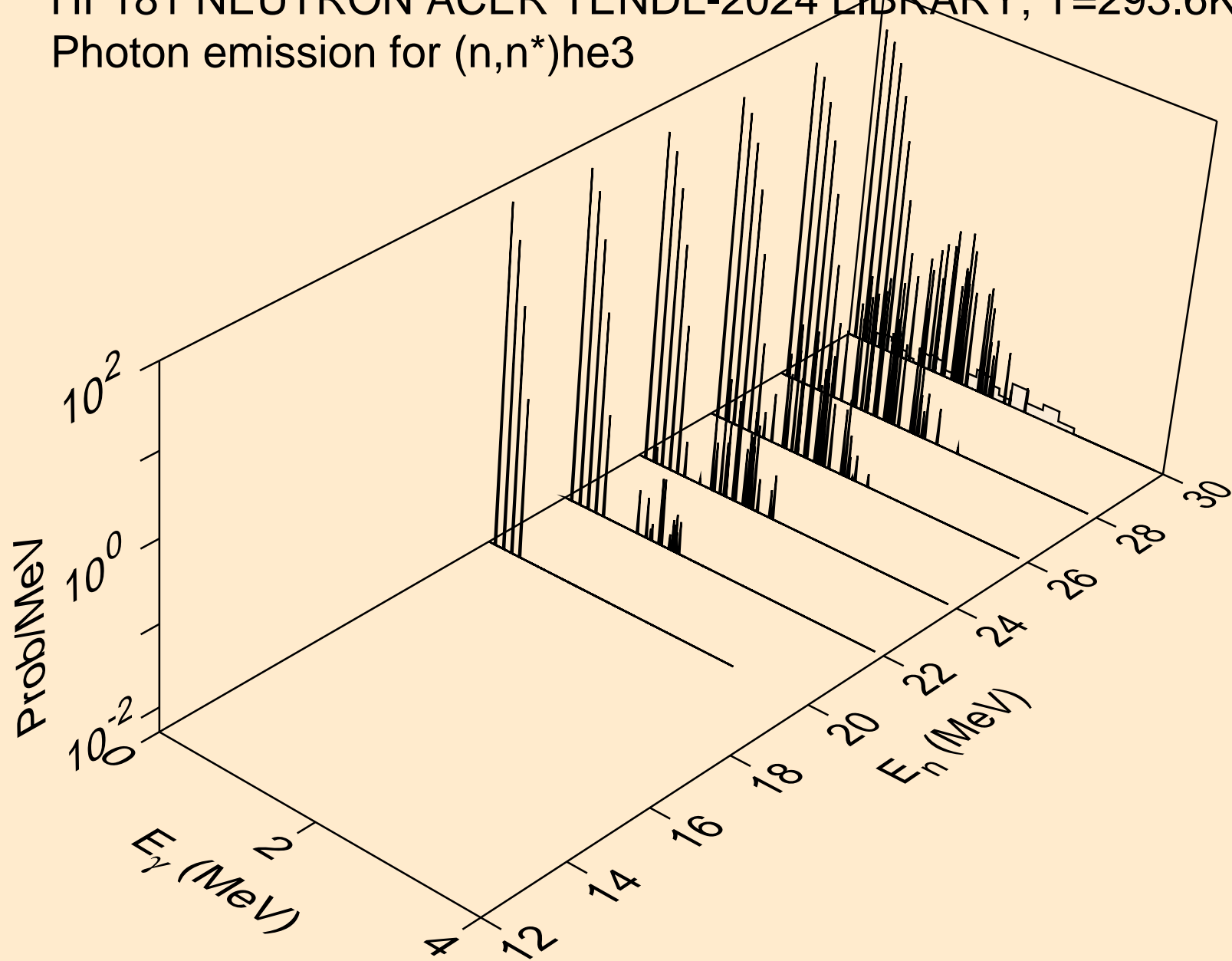
HF181 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Photon emission for (n,n\*)d



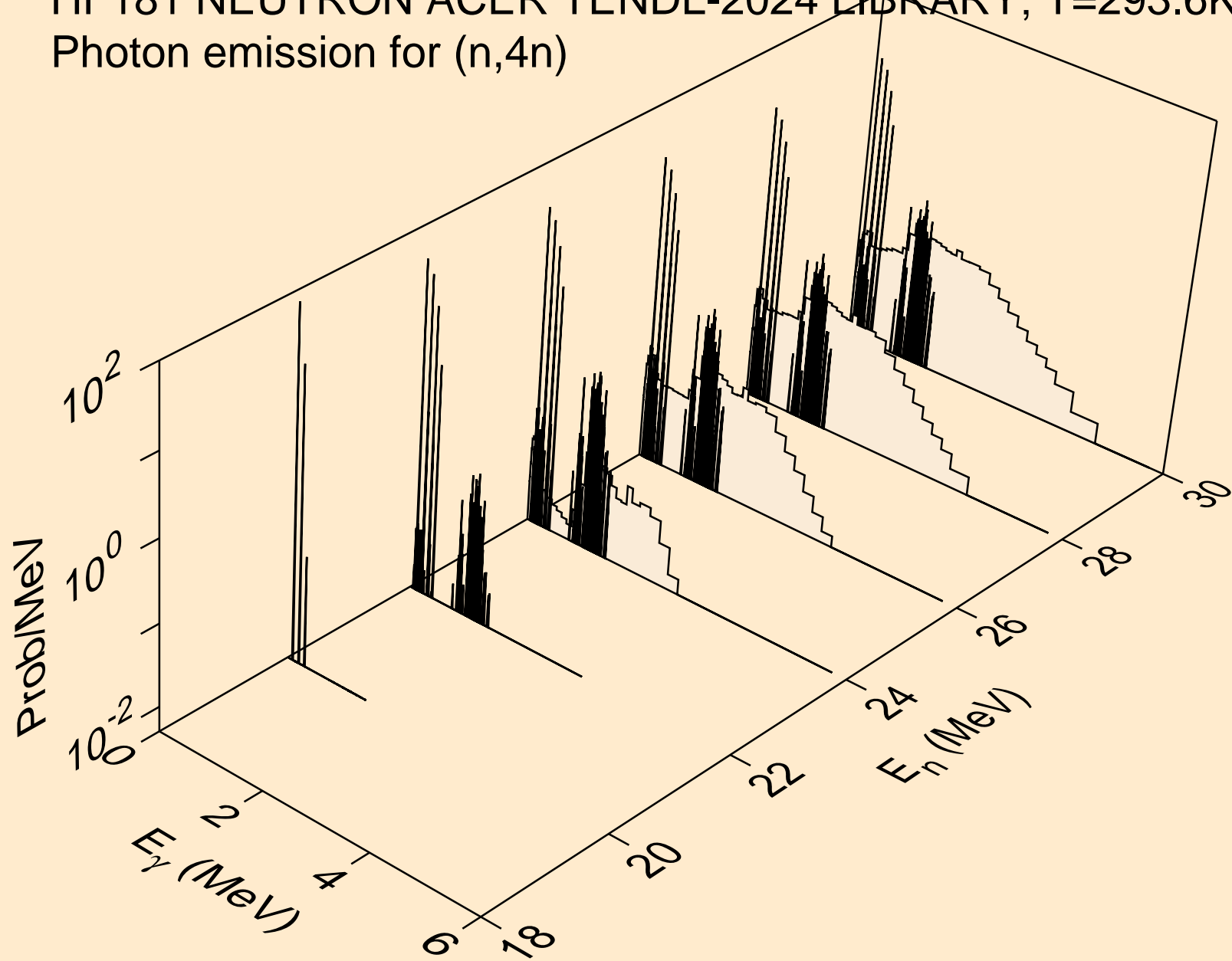
HF181 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Photon emission for (n,n\*)t



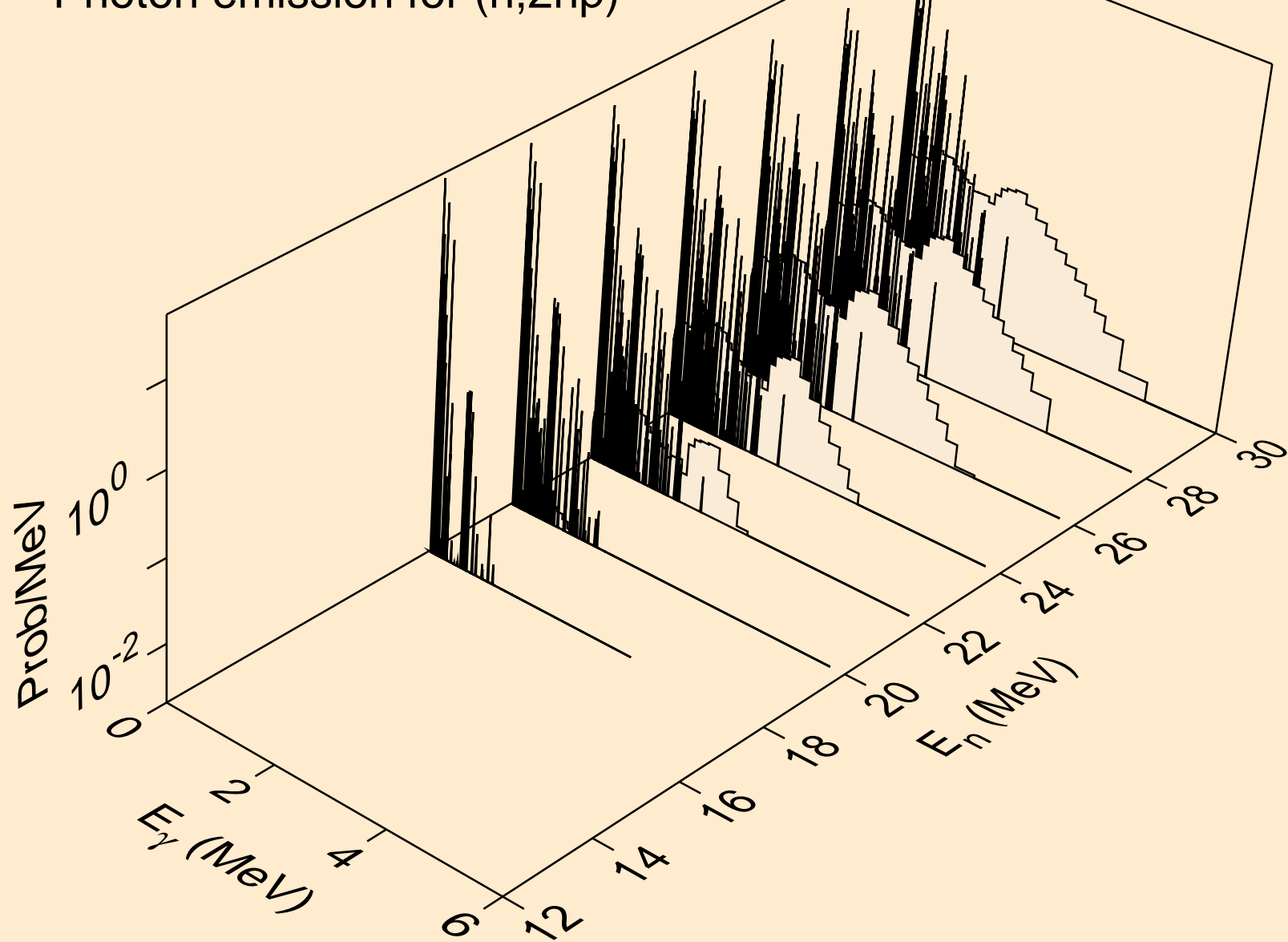
HF181 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Photon emission for (n,n\*)he3



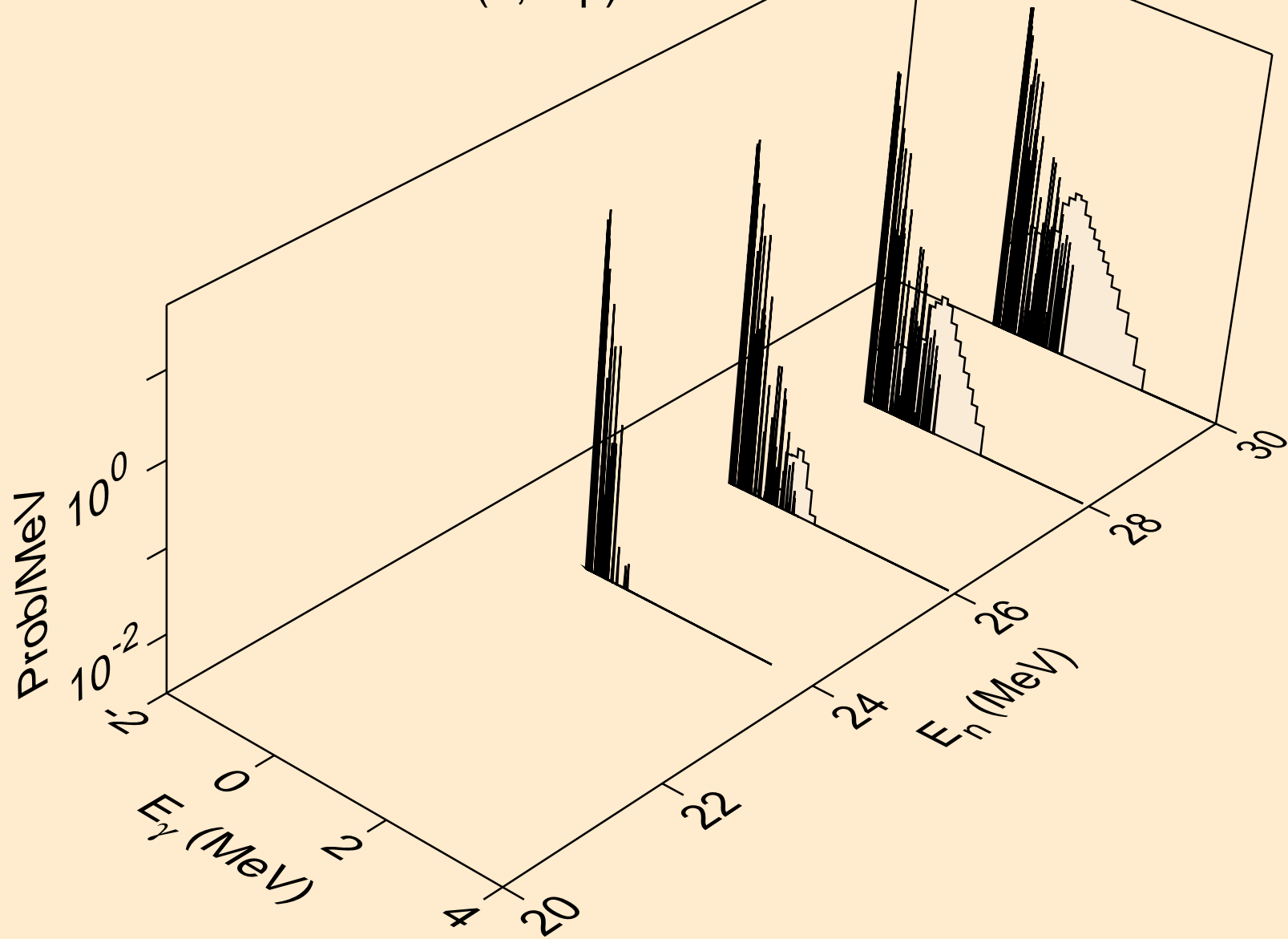
HF181 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Photon emission for (n,4n)



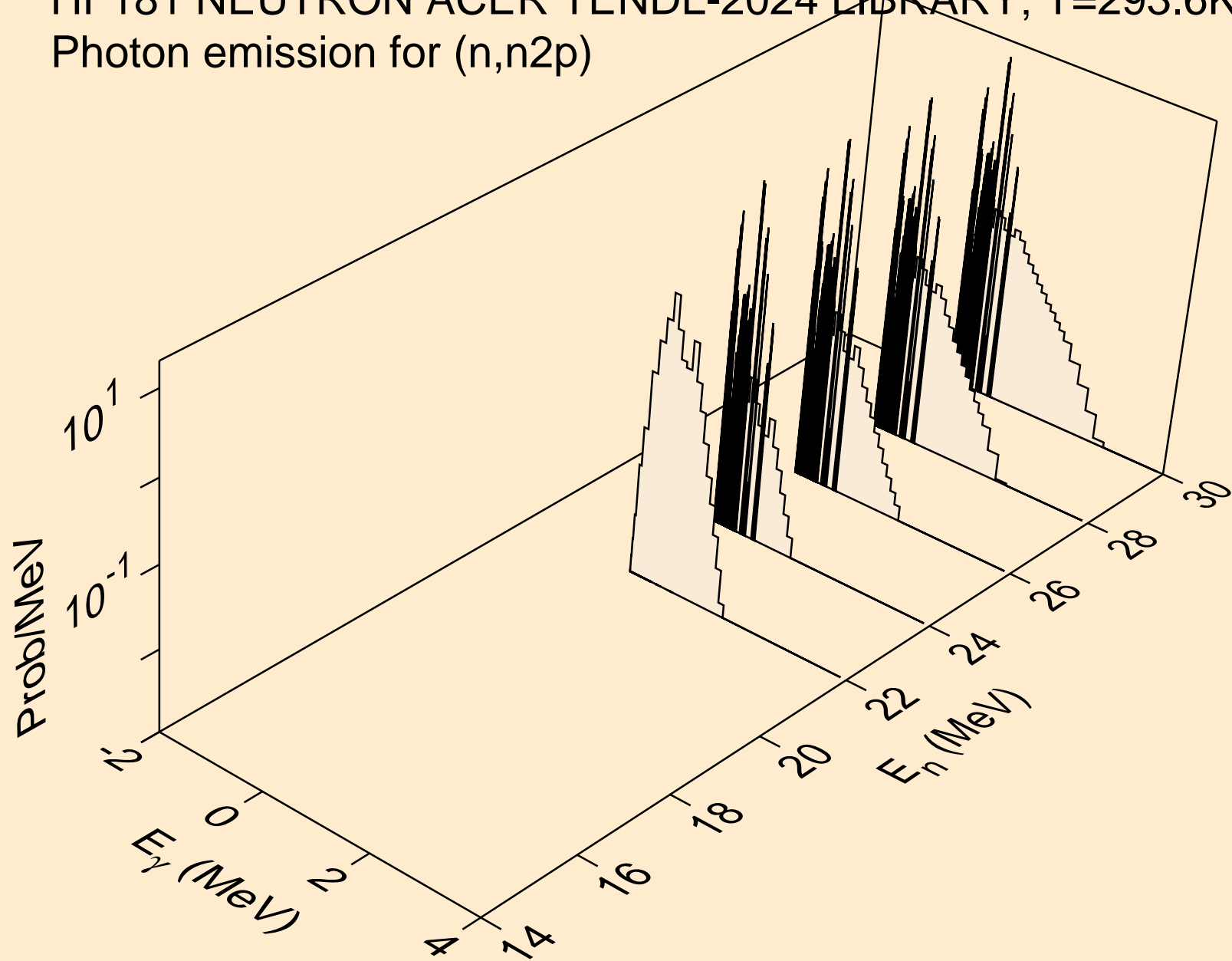
HF181 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Photon emission for (n,2np)



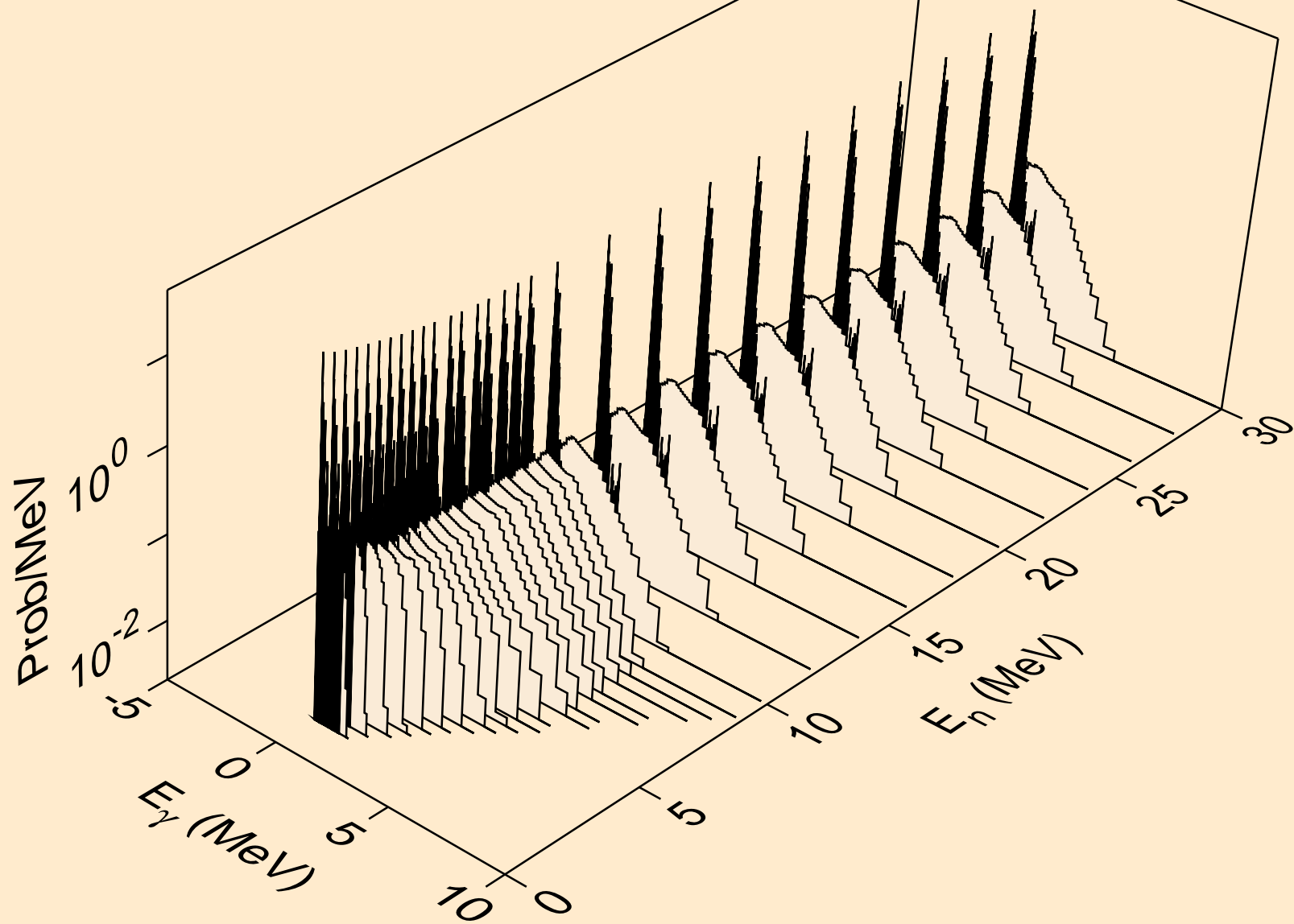
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Photon emission for (n,3np)



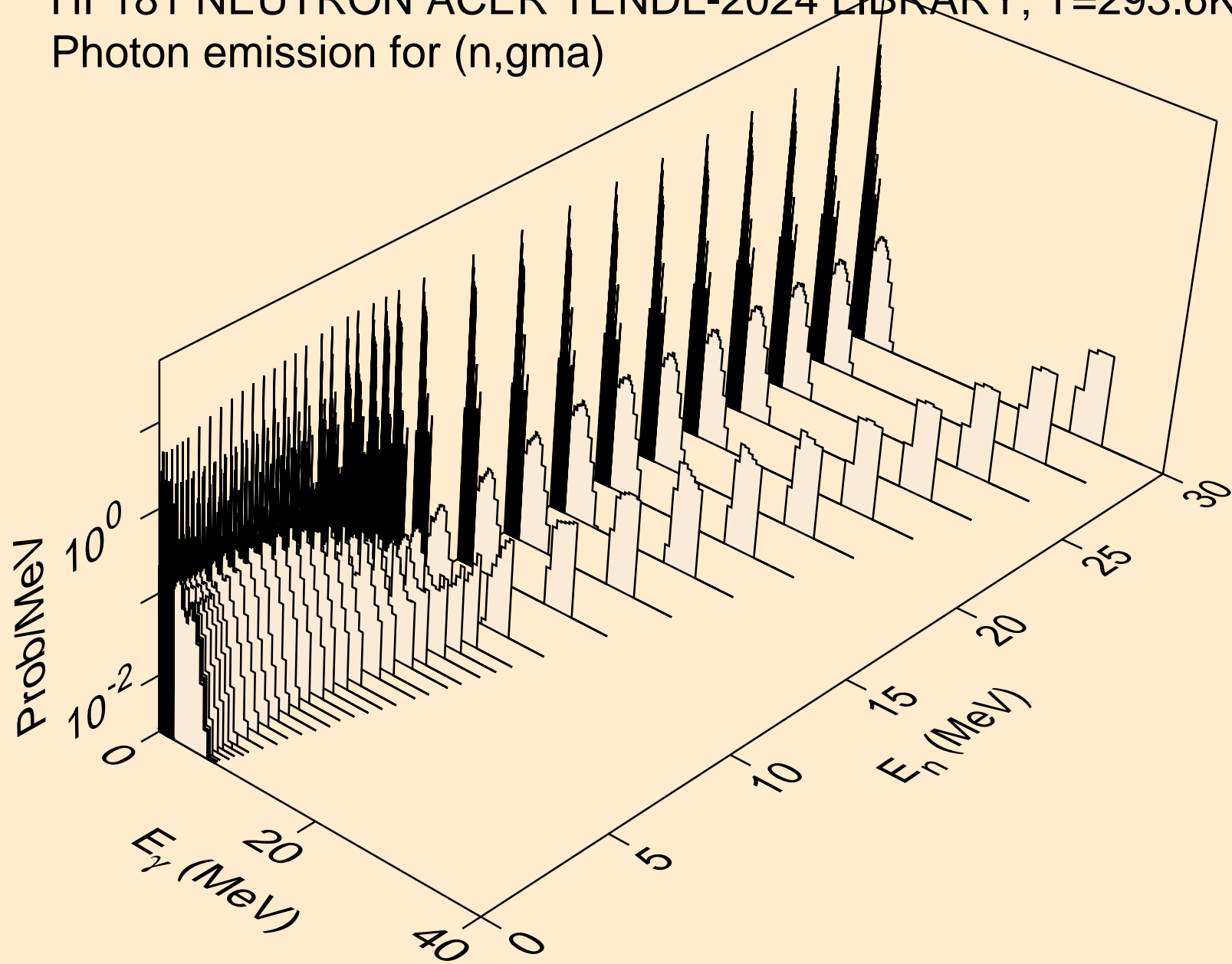
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Photon emission for (n,n2p)



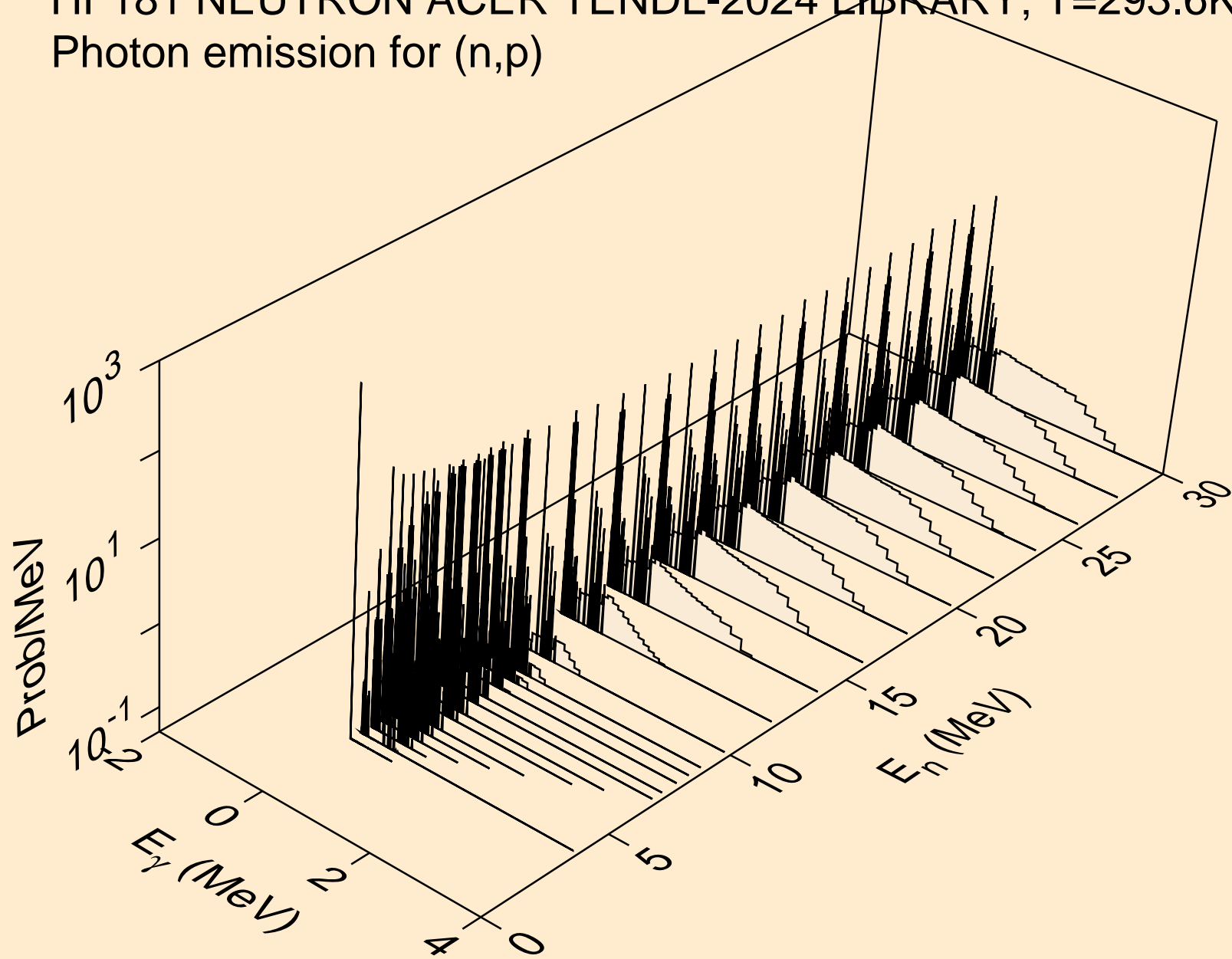
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Photon emission for (n,n\*c)



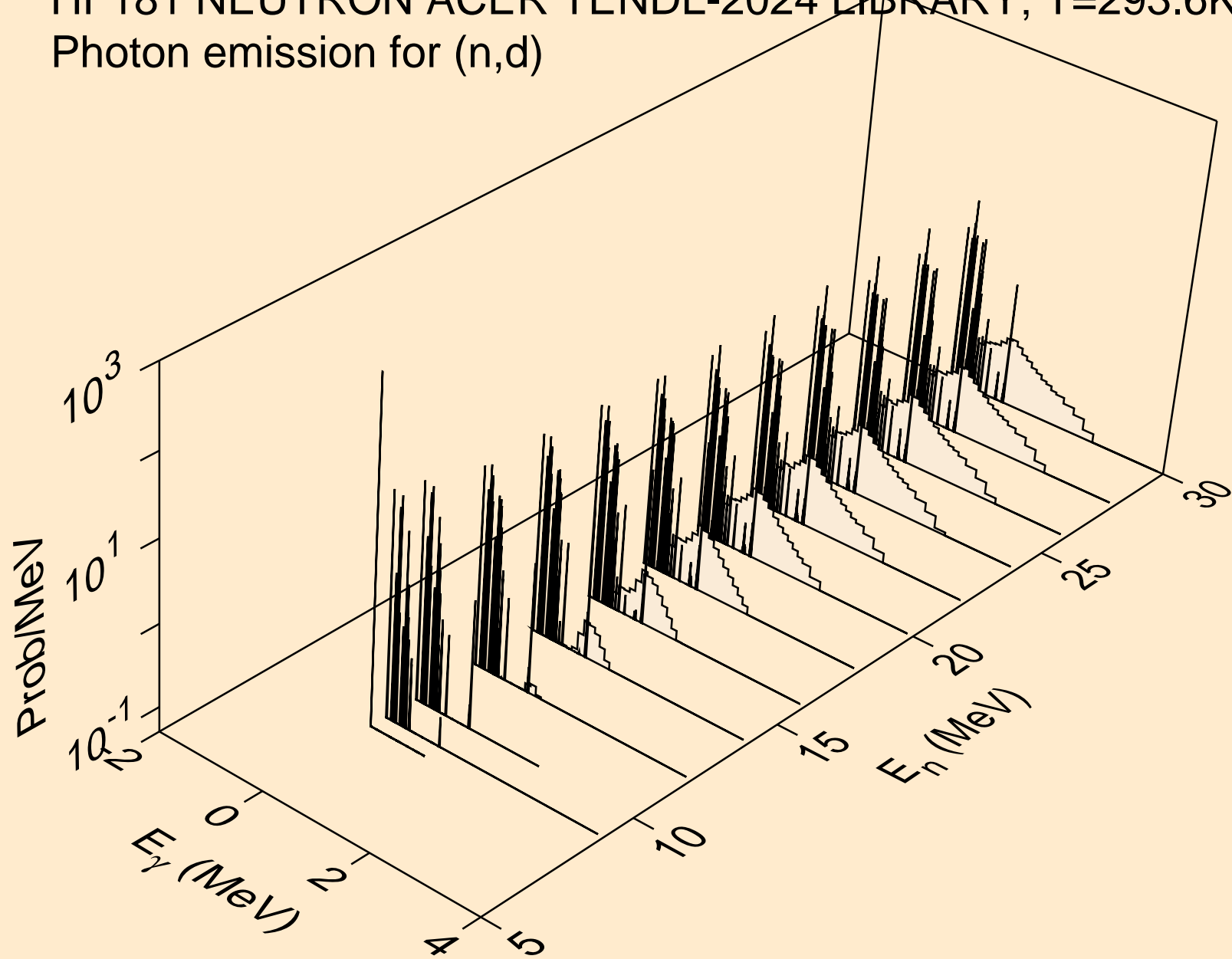
HF181 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Photon emission for (n,gma)



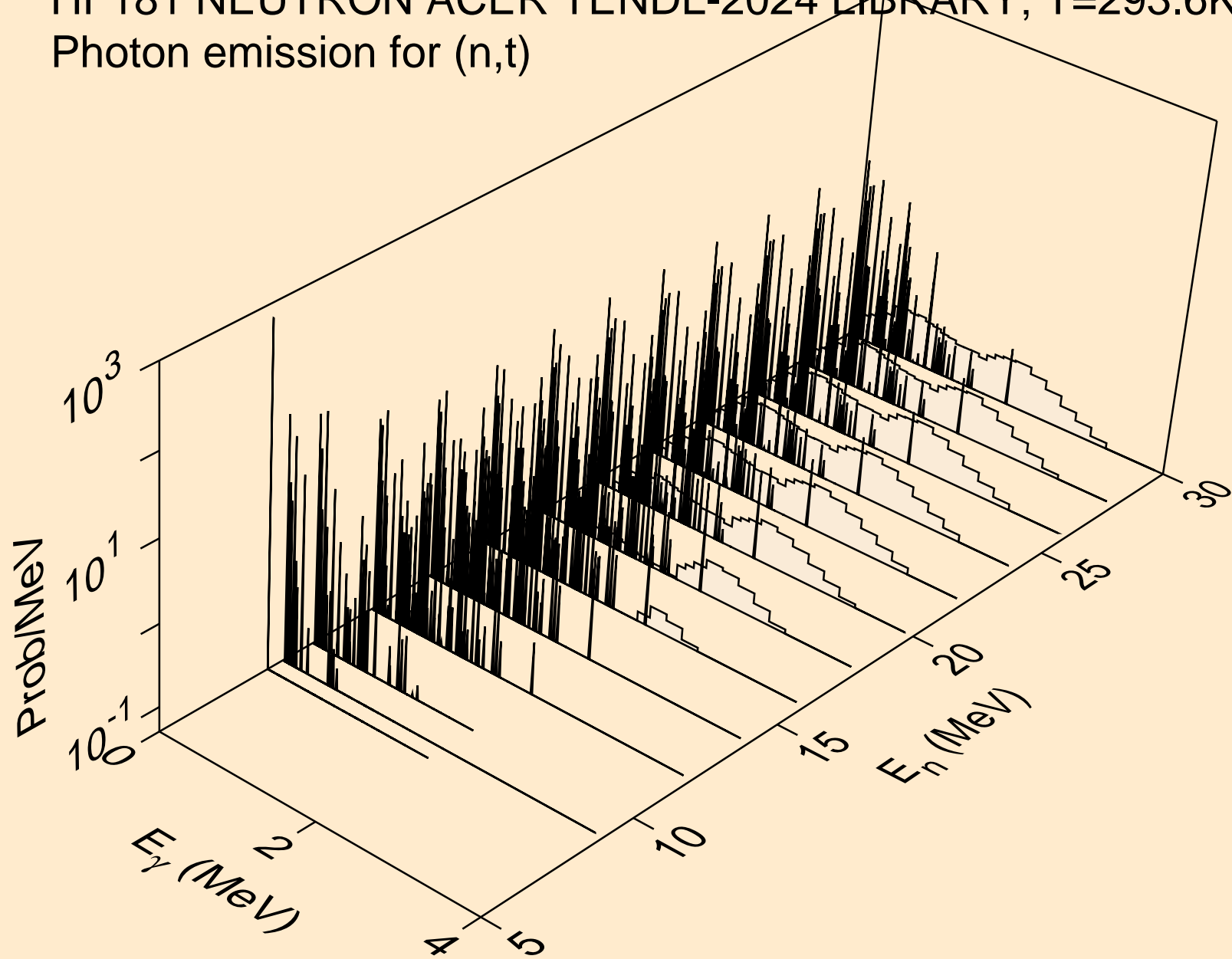
HF181 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Photon emission for (n,p)



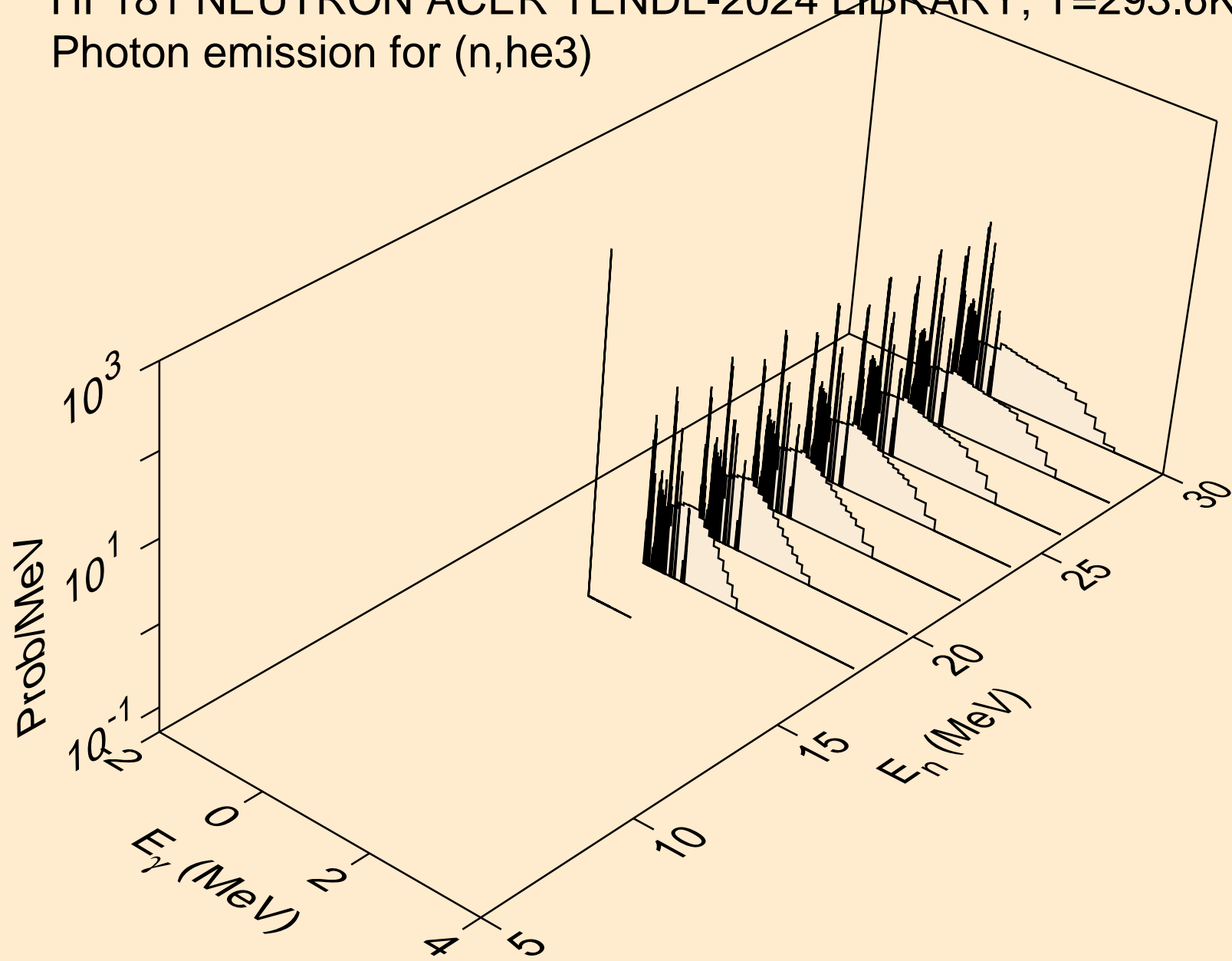
HF181 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Photon emission for (n,d)



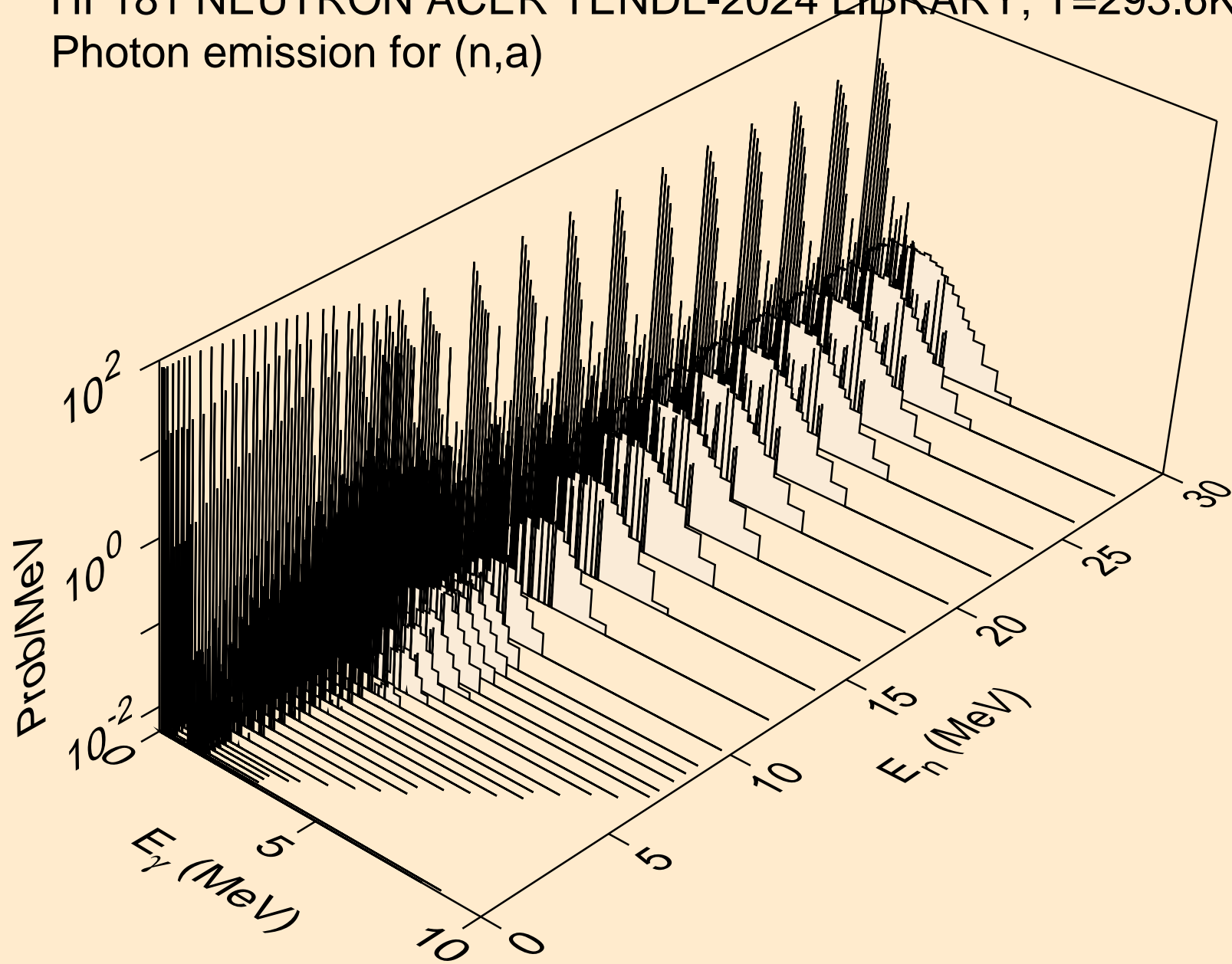
HF181 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Photon emission for (n,t)



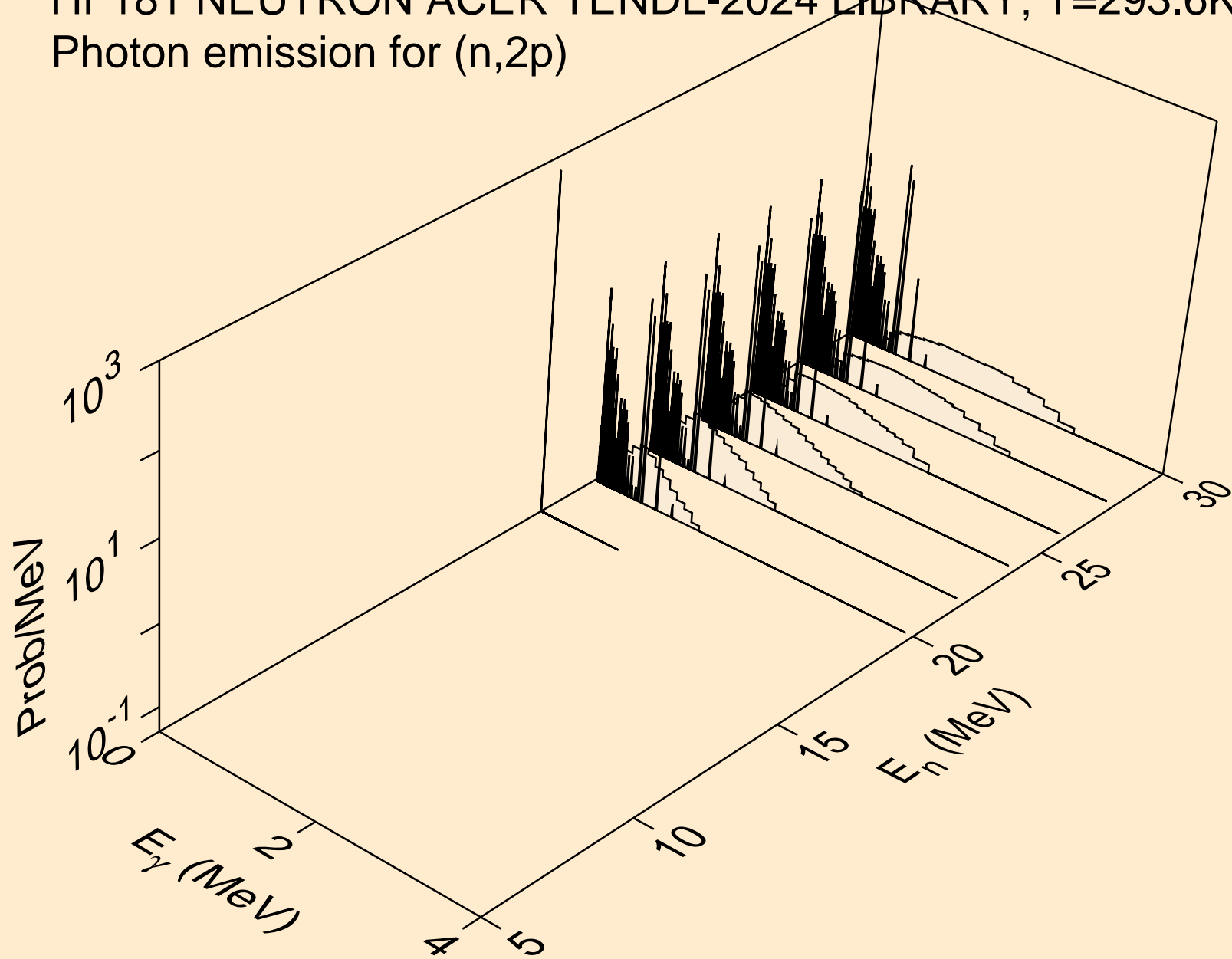
HF181 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Photon emission for (n,he3)



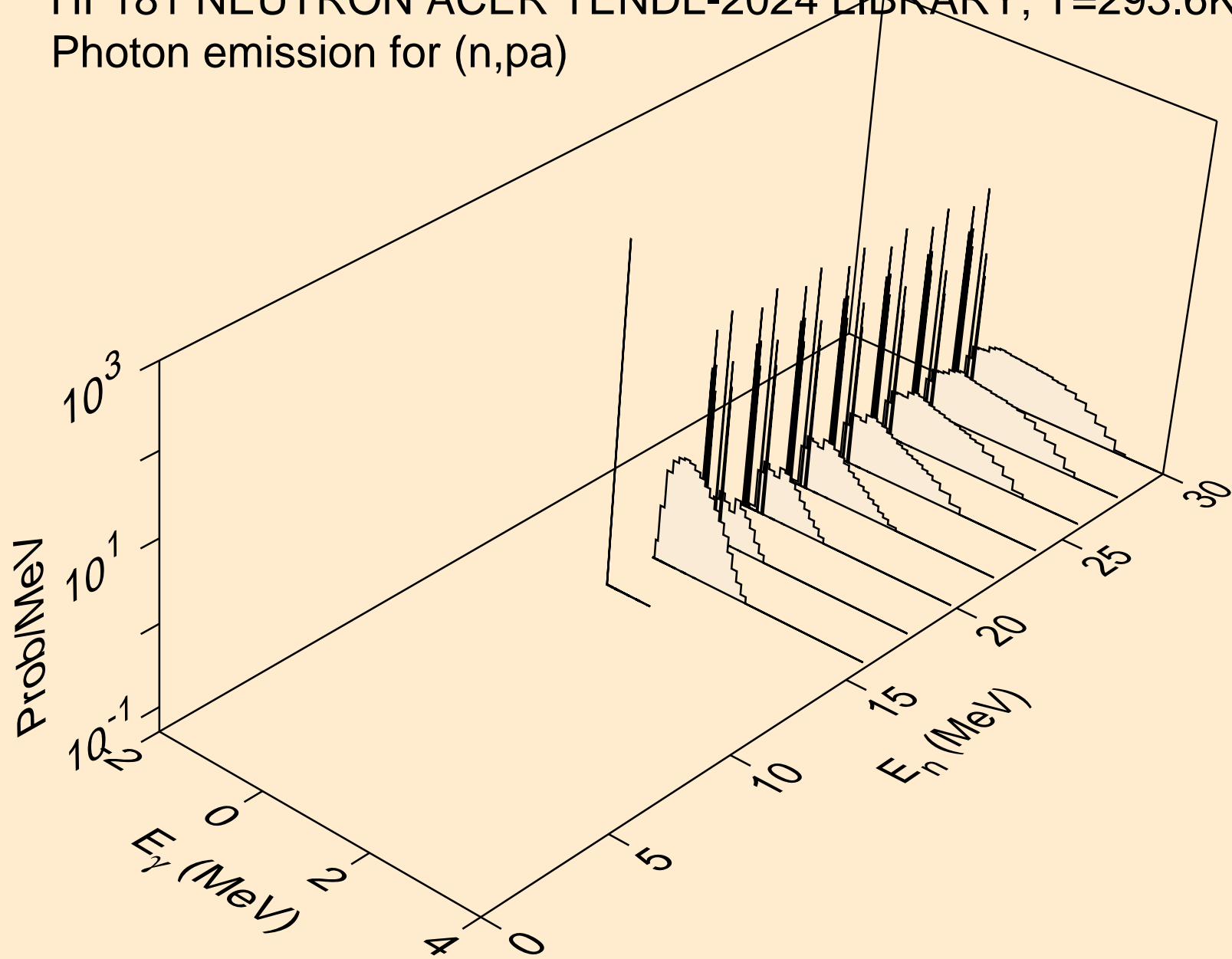
HF181 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Photon emission for (n,a)



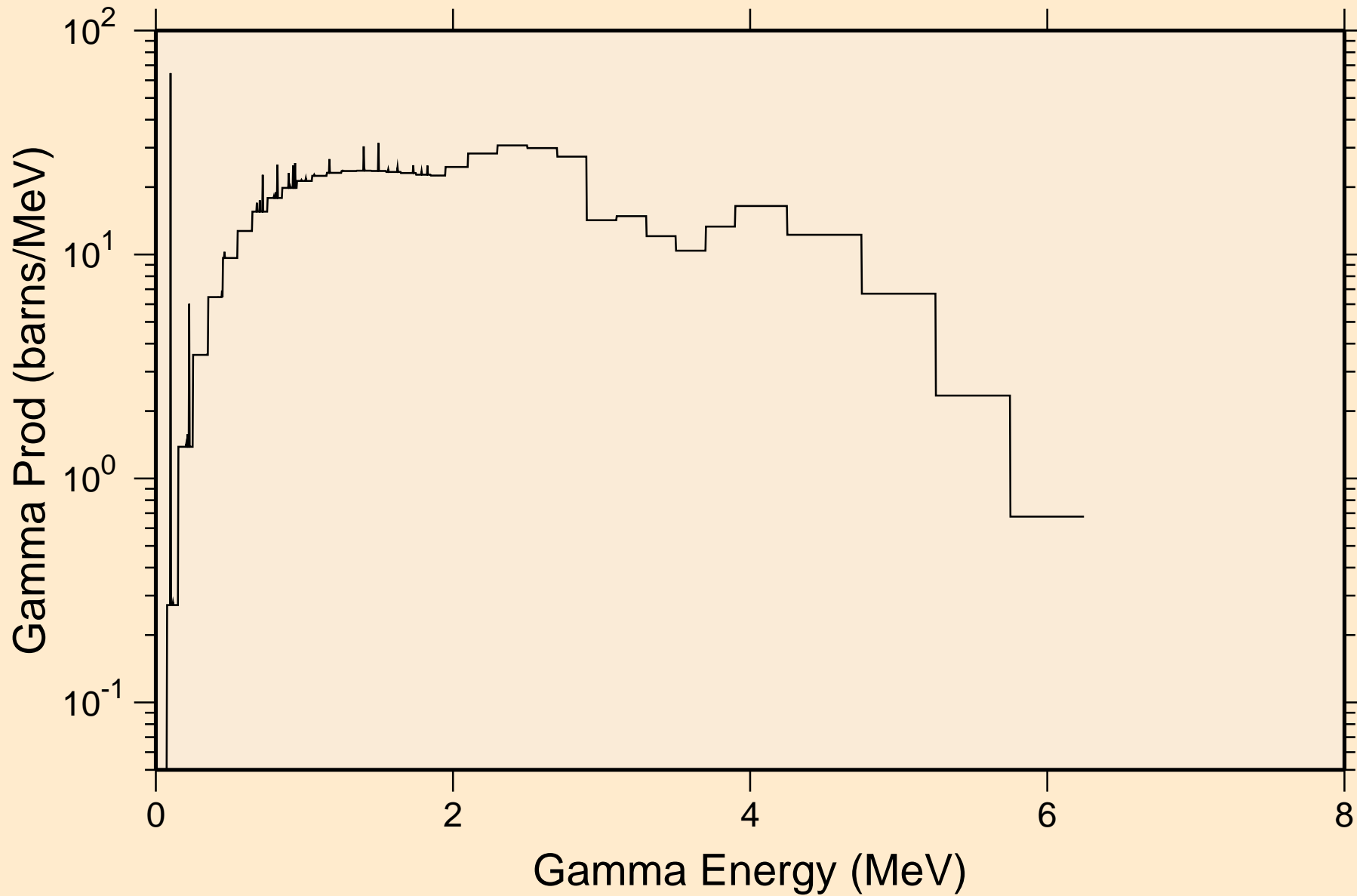
HF181 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Photon emission for (n,2p)



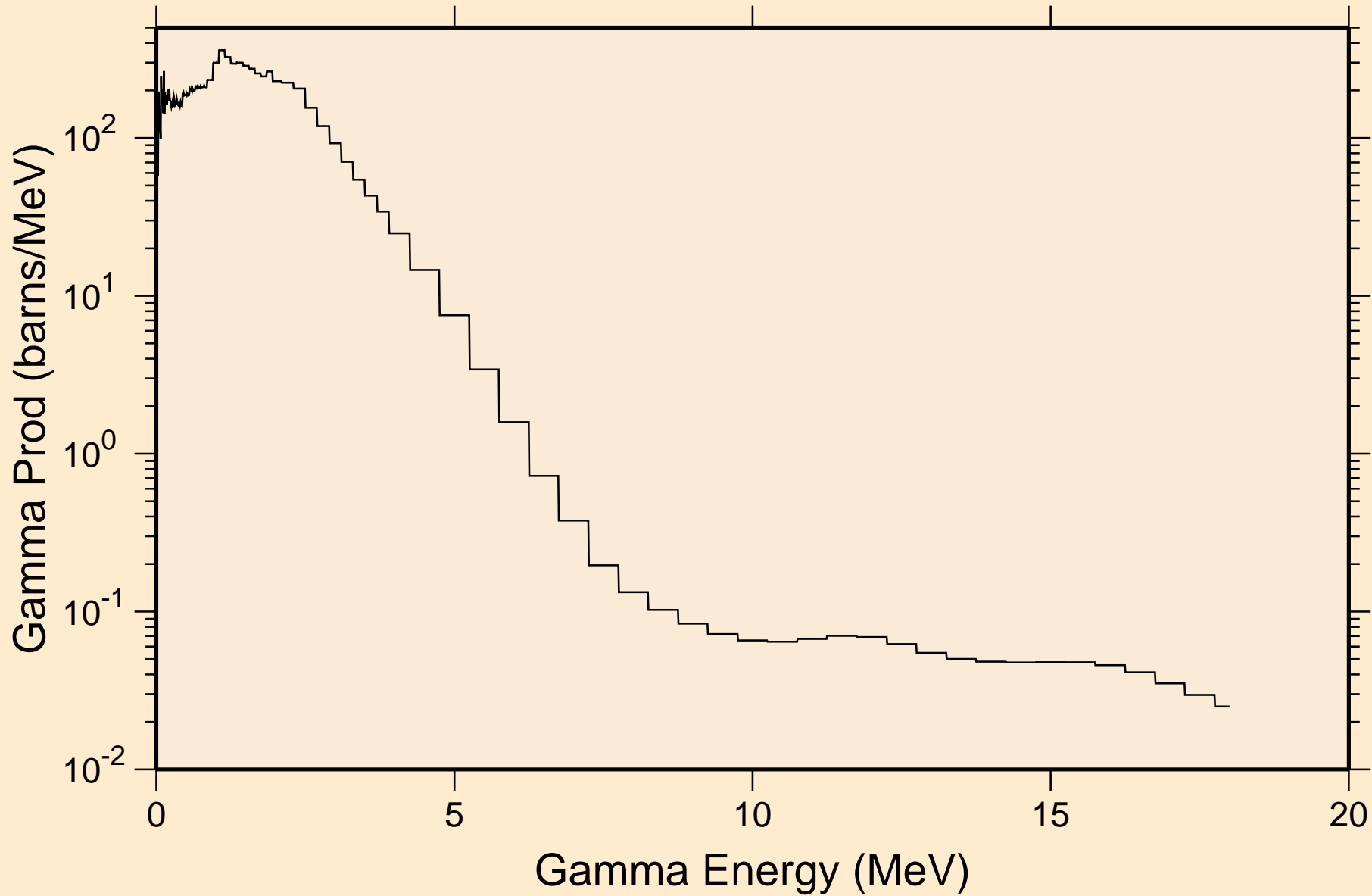
HF181 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Photon emission for (n,p $\alpha$ )



HF181 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
thermal capture photon spectrum

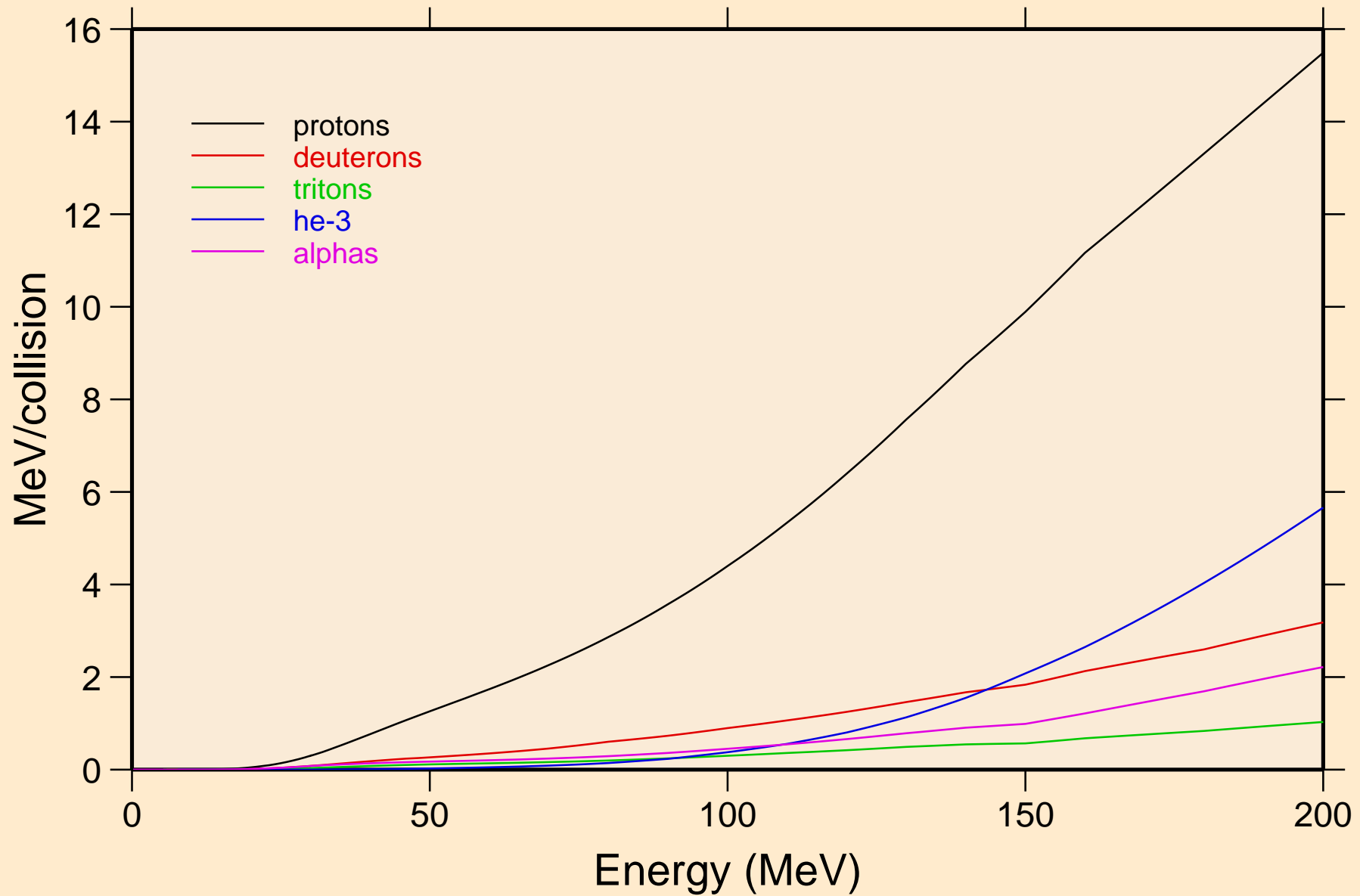


HF181 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
14 MeV photon spectrum



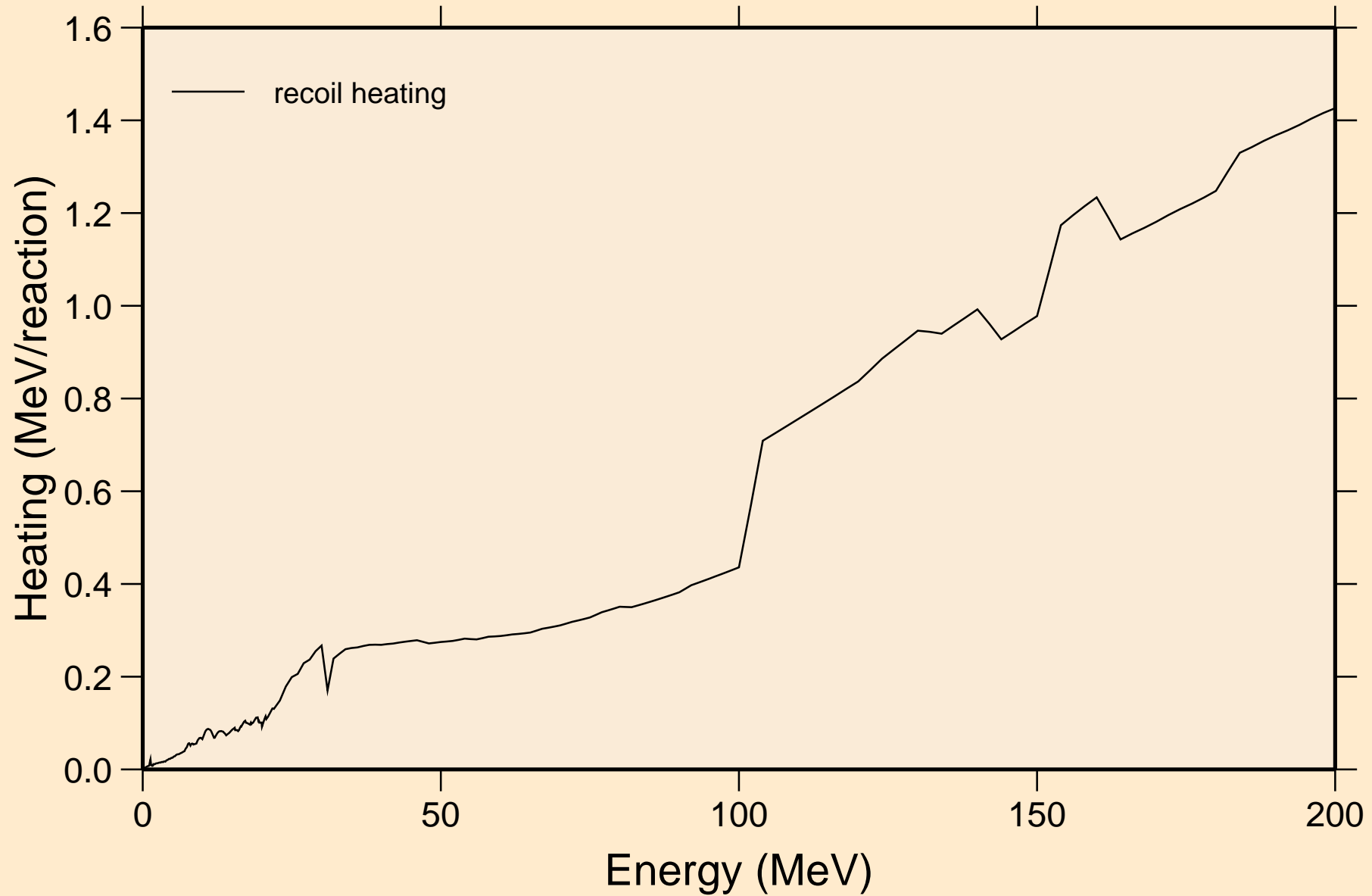
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## Particle heating contributions



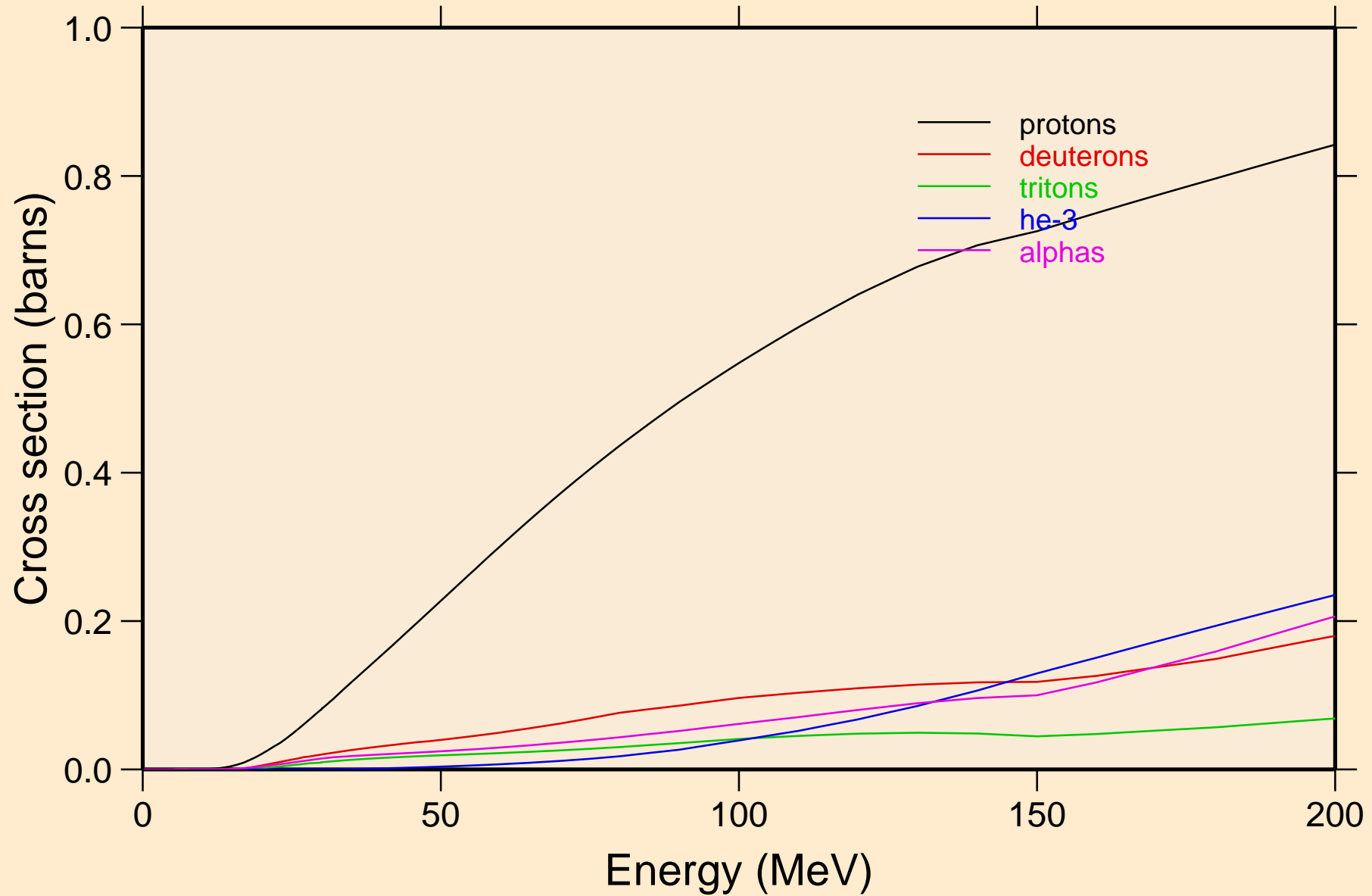
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## Recoil Heating

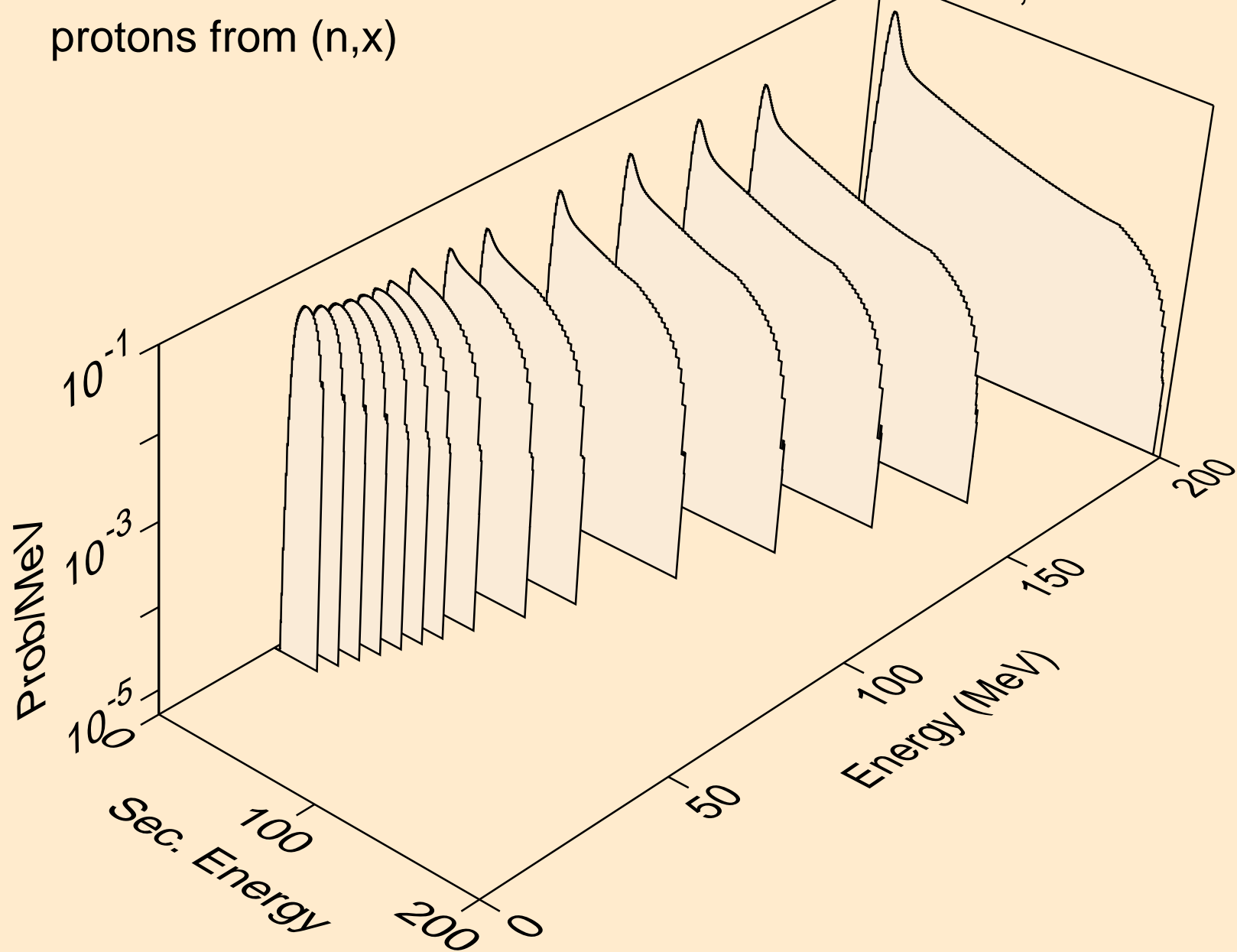


# HF181 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K

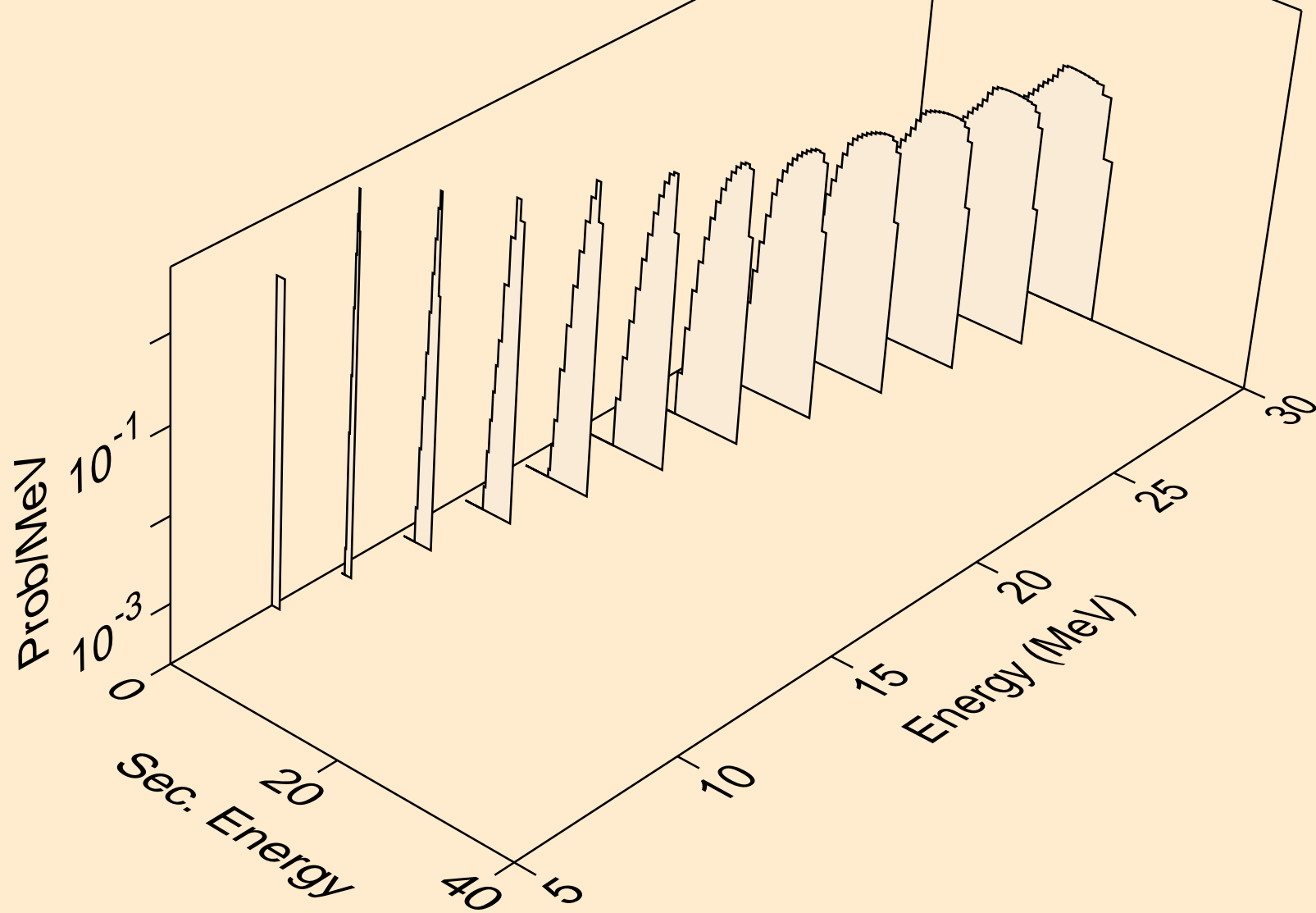
## Particle production cross sections



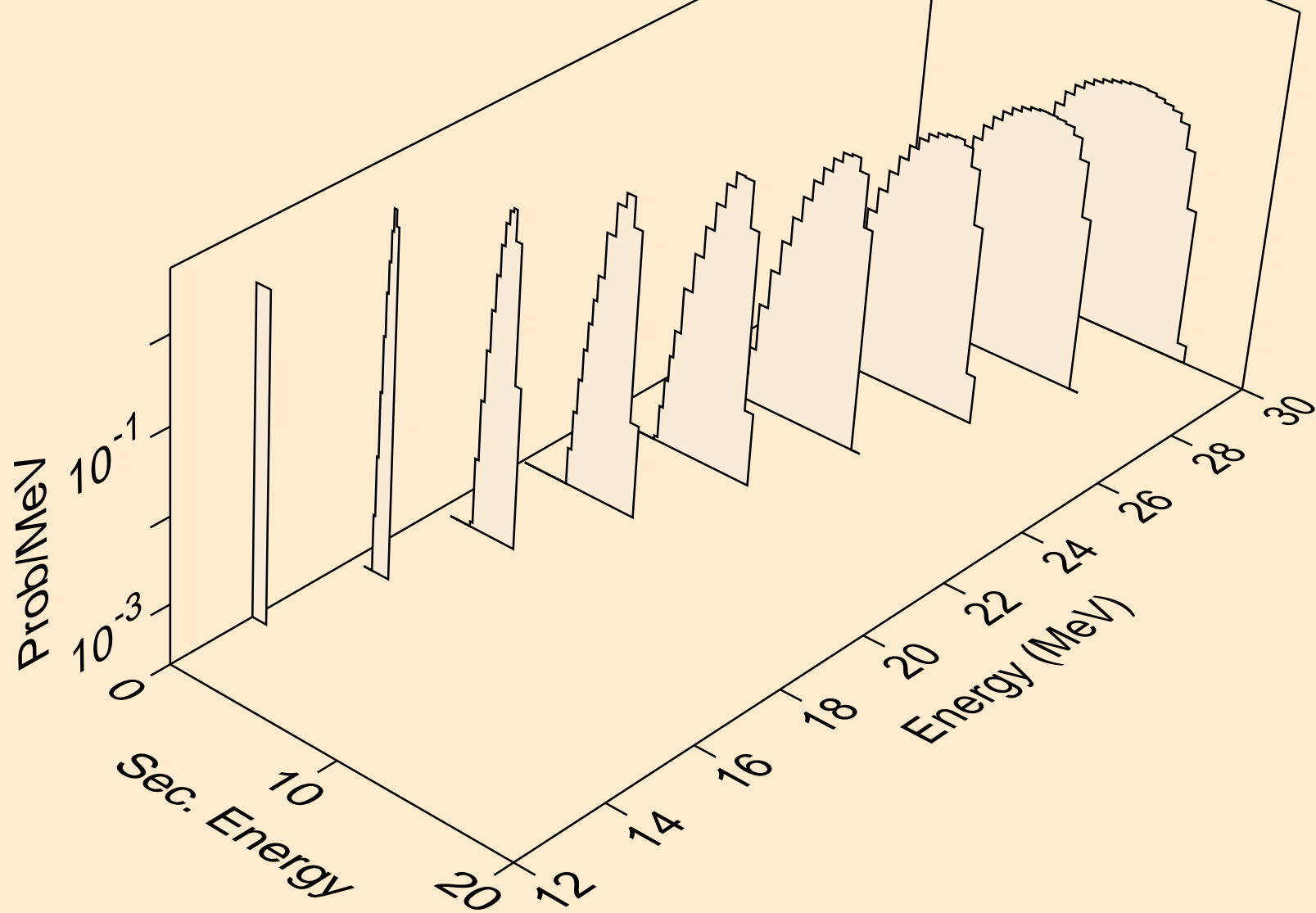
HF181 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
protons from (n,x)



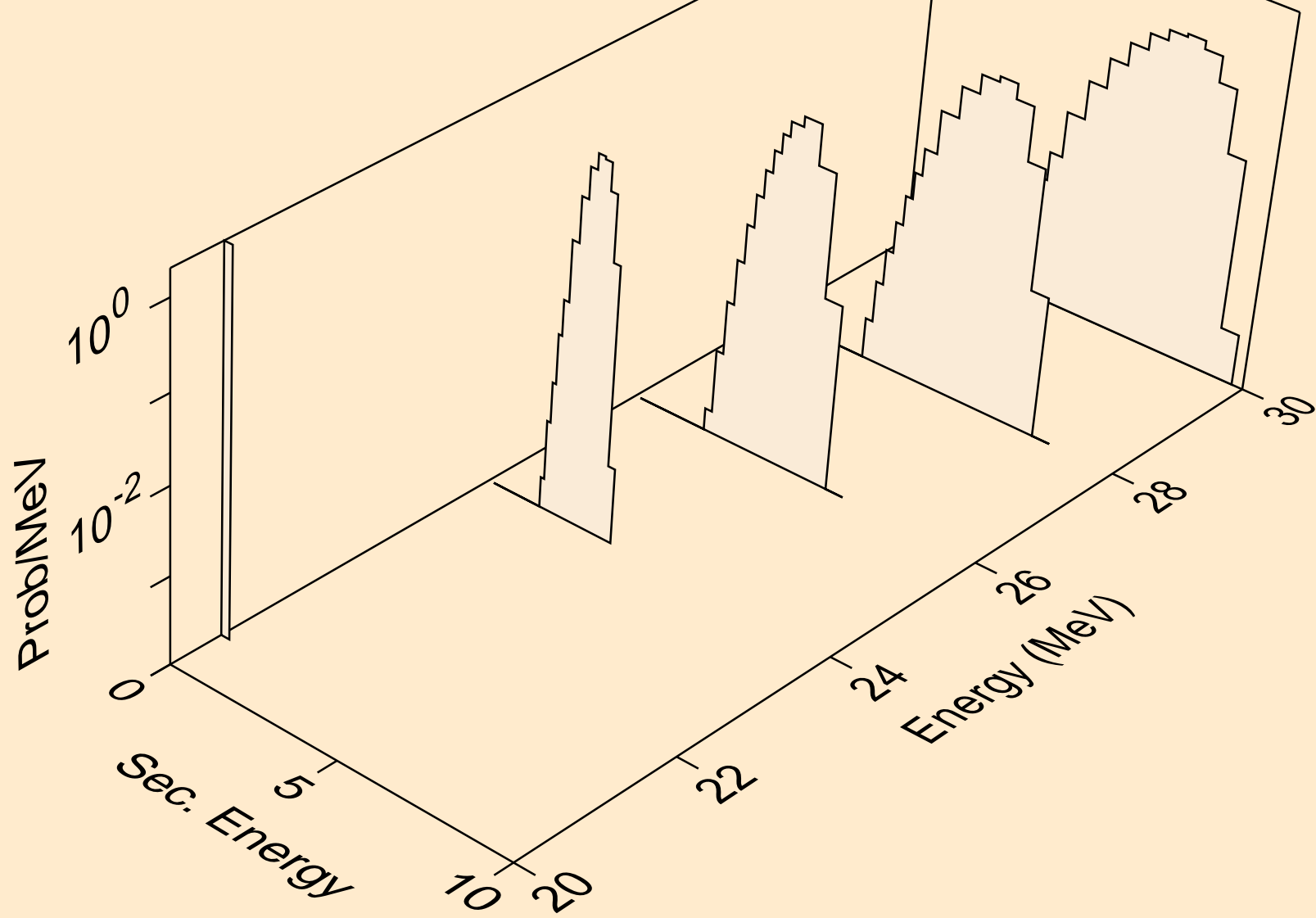
HF181 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
protons from (n,n\*)p



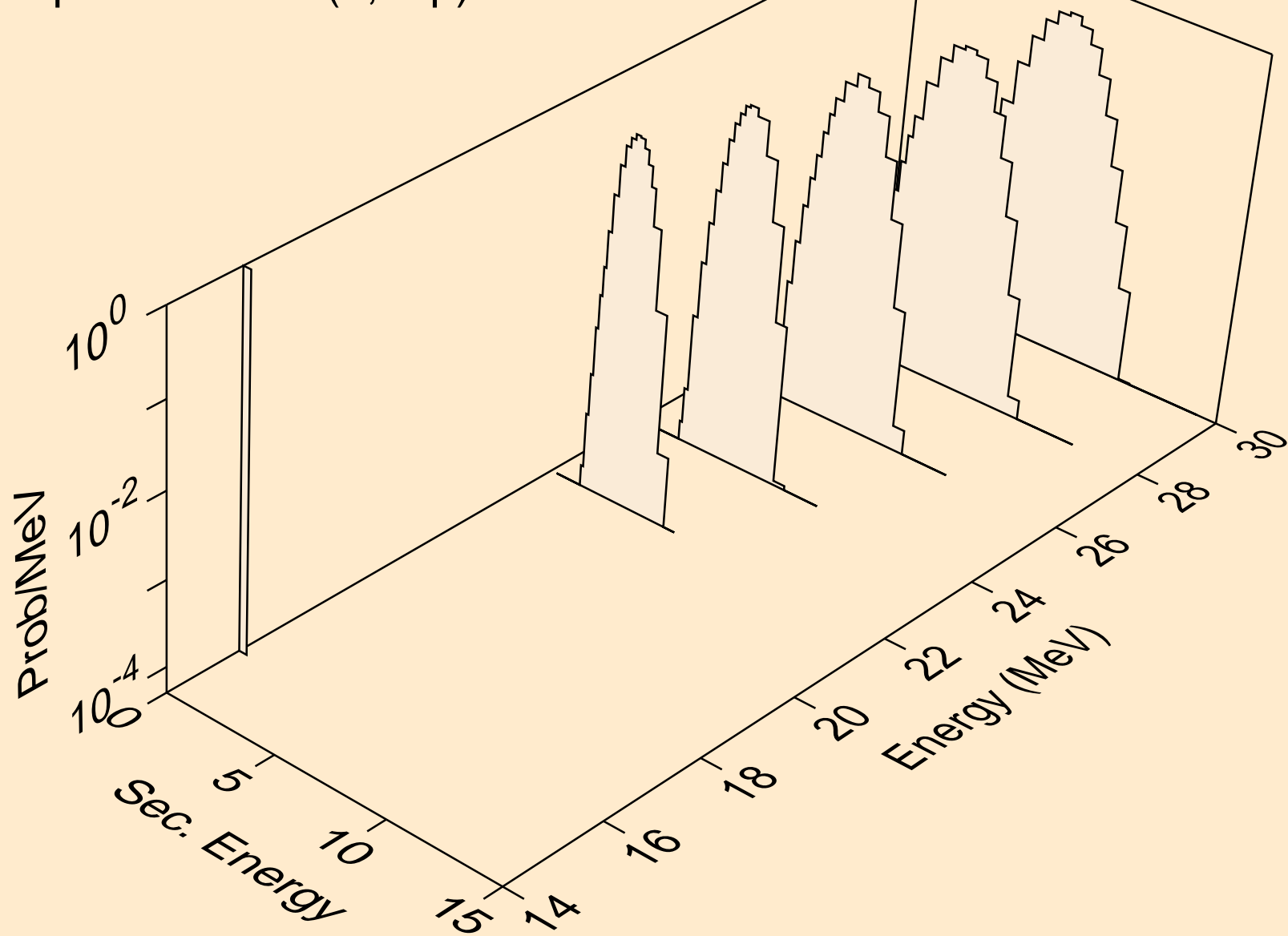
HF181 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
protons from (n,2np)



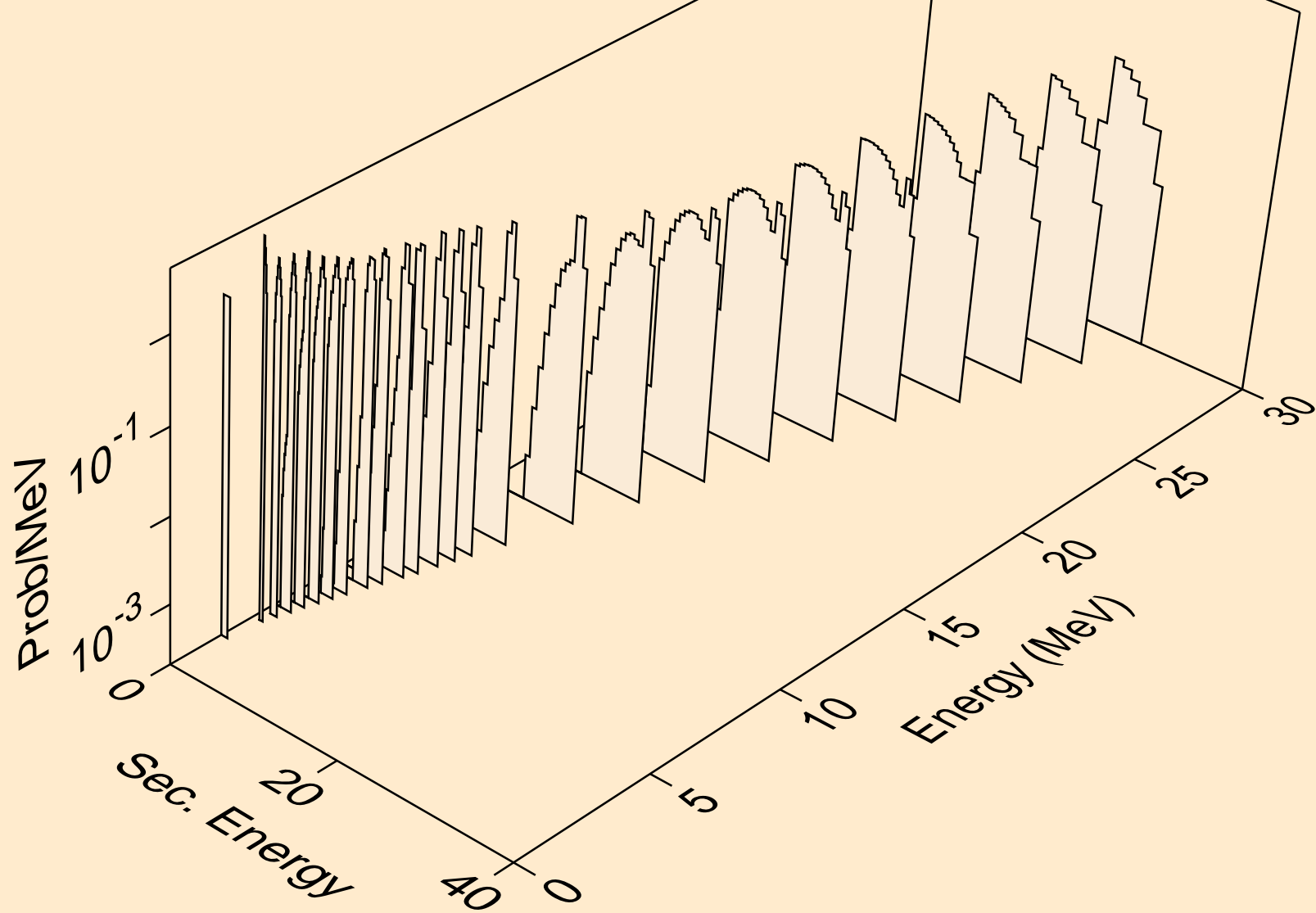
HF181 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
protons from (n,3np)



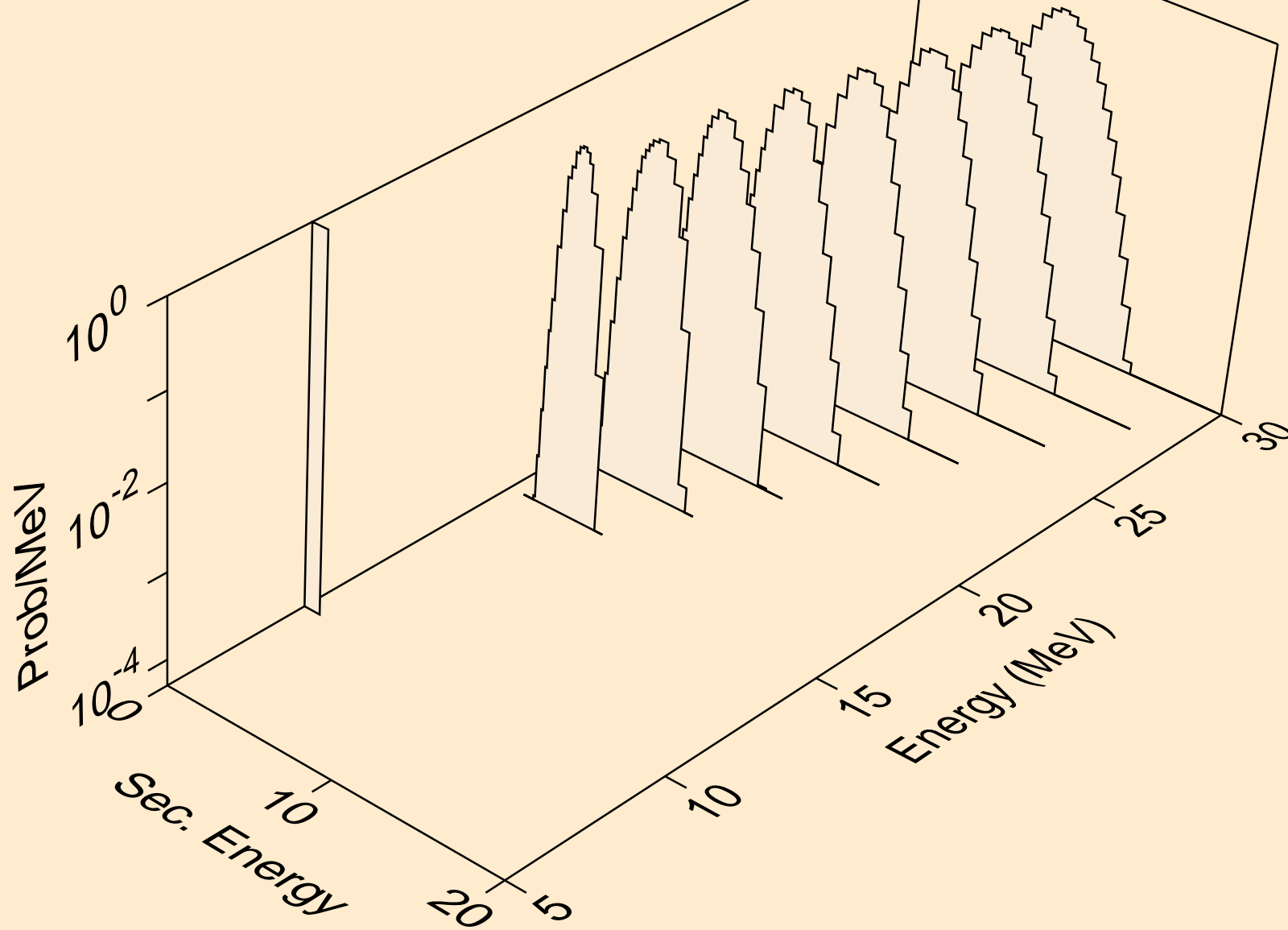
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protons from (n,n2p)



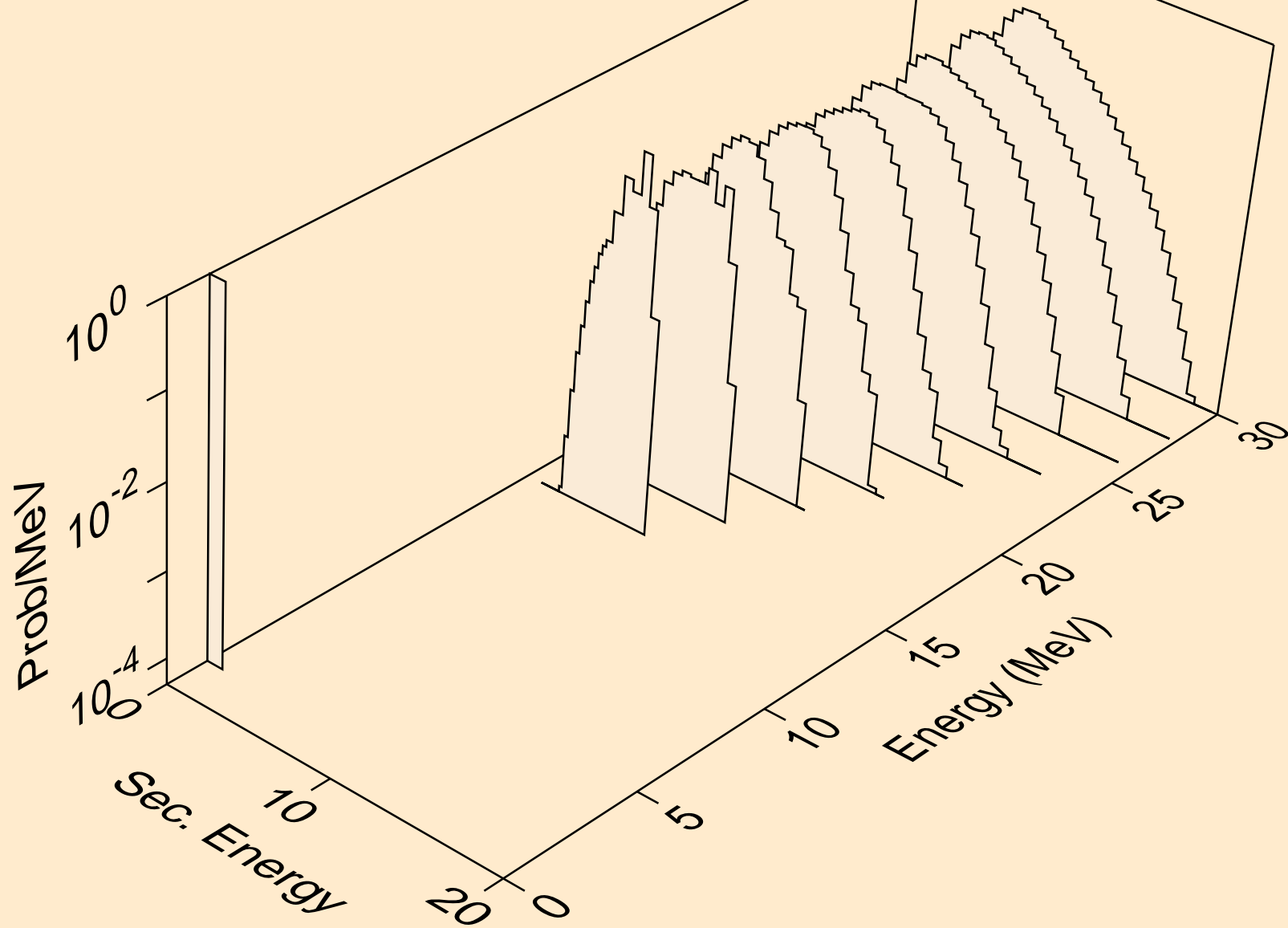
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protons from (n,p)



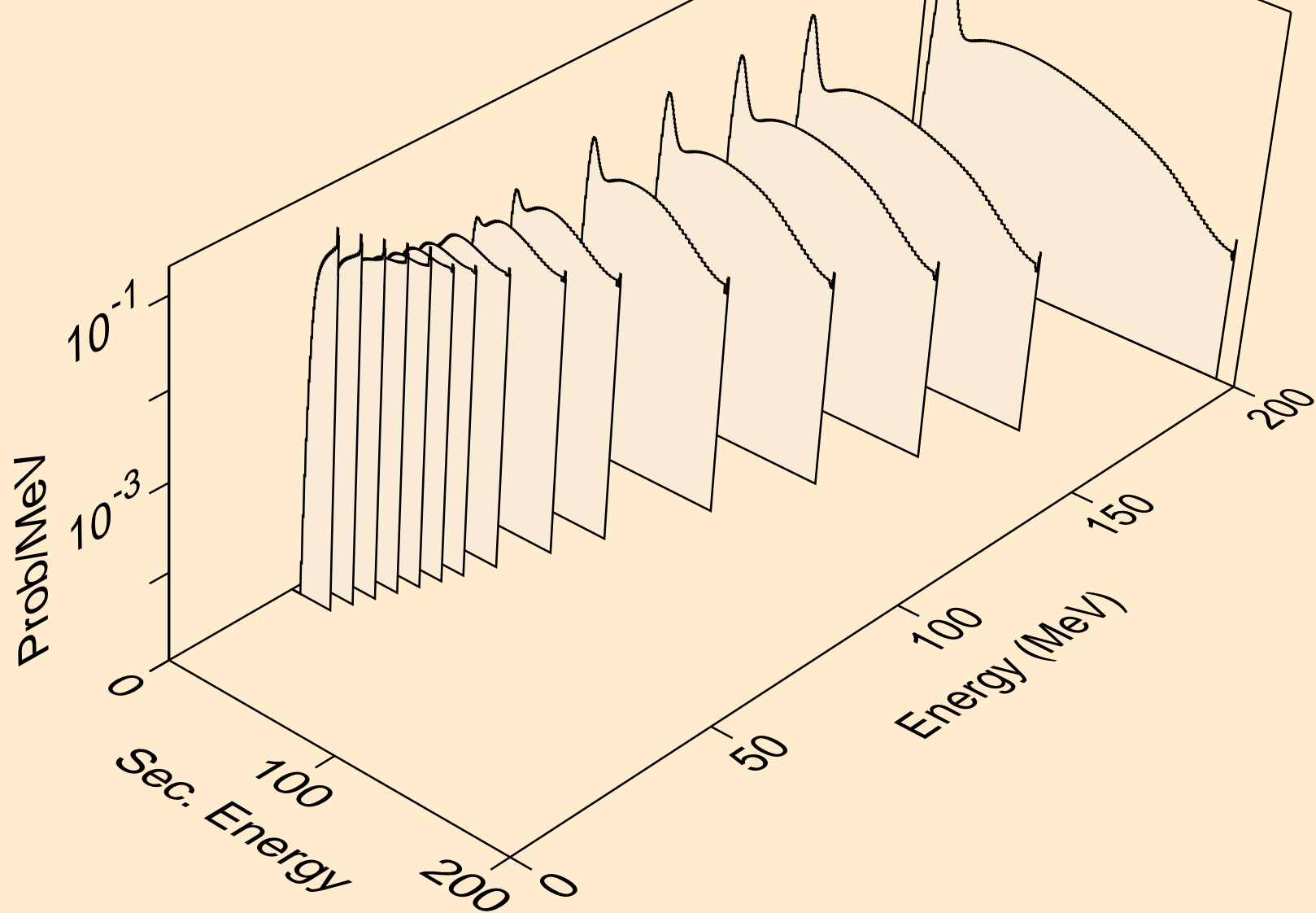
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protons from (n,2p)



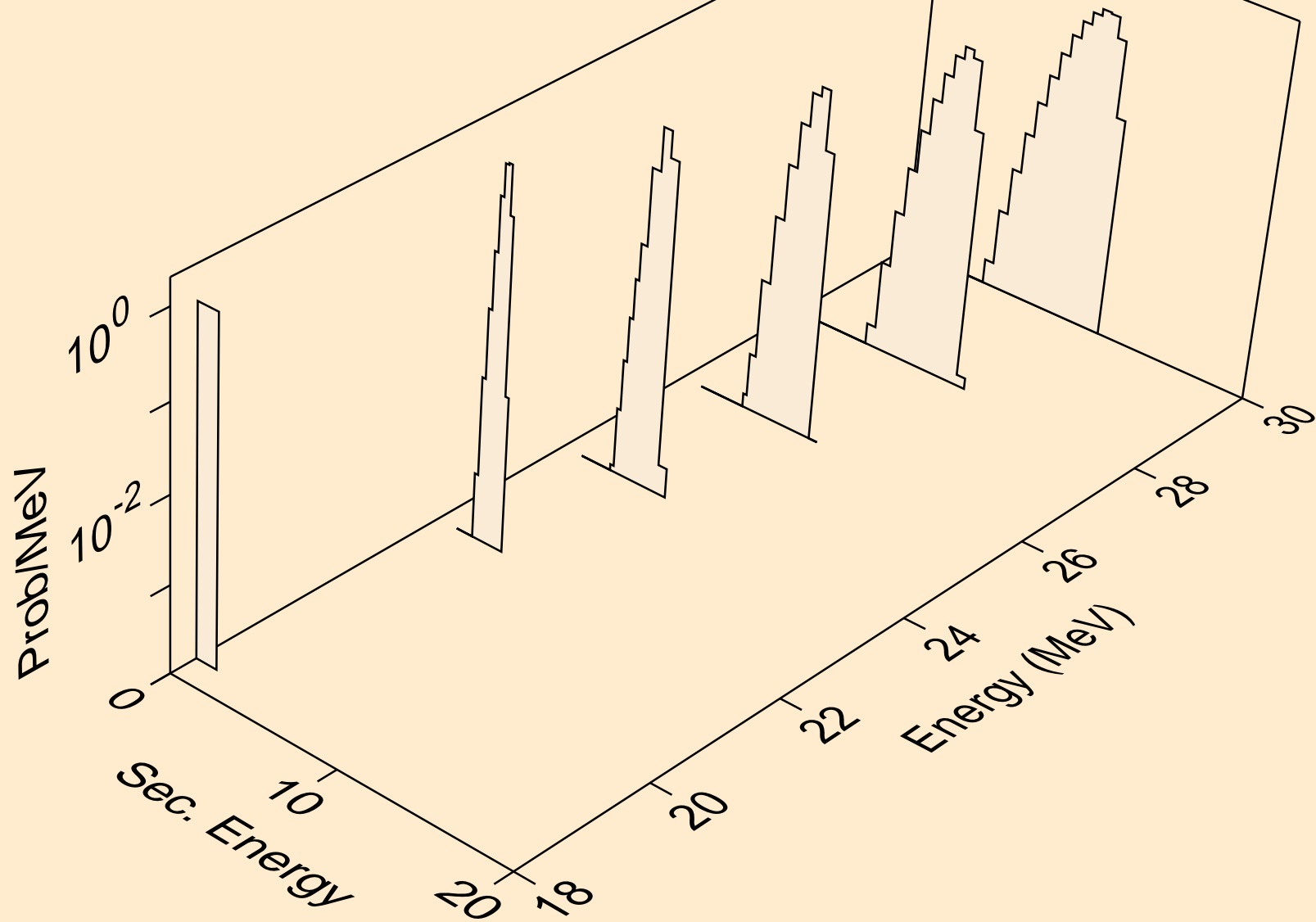
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protons from (n,p)



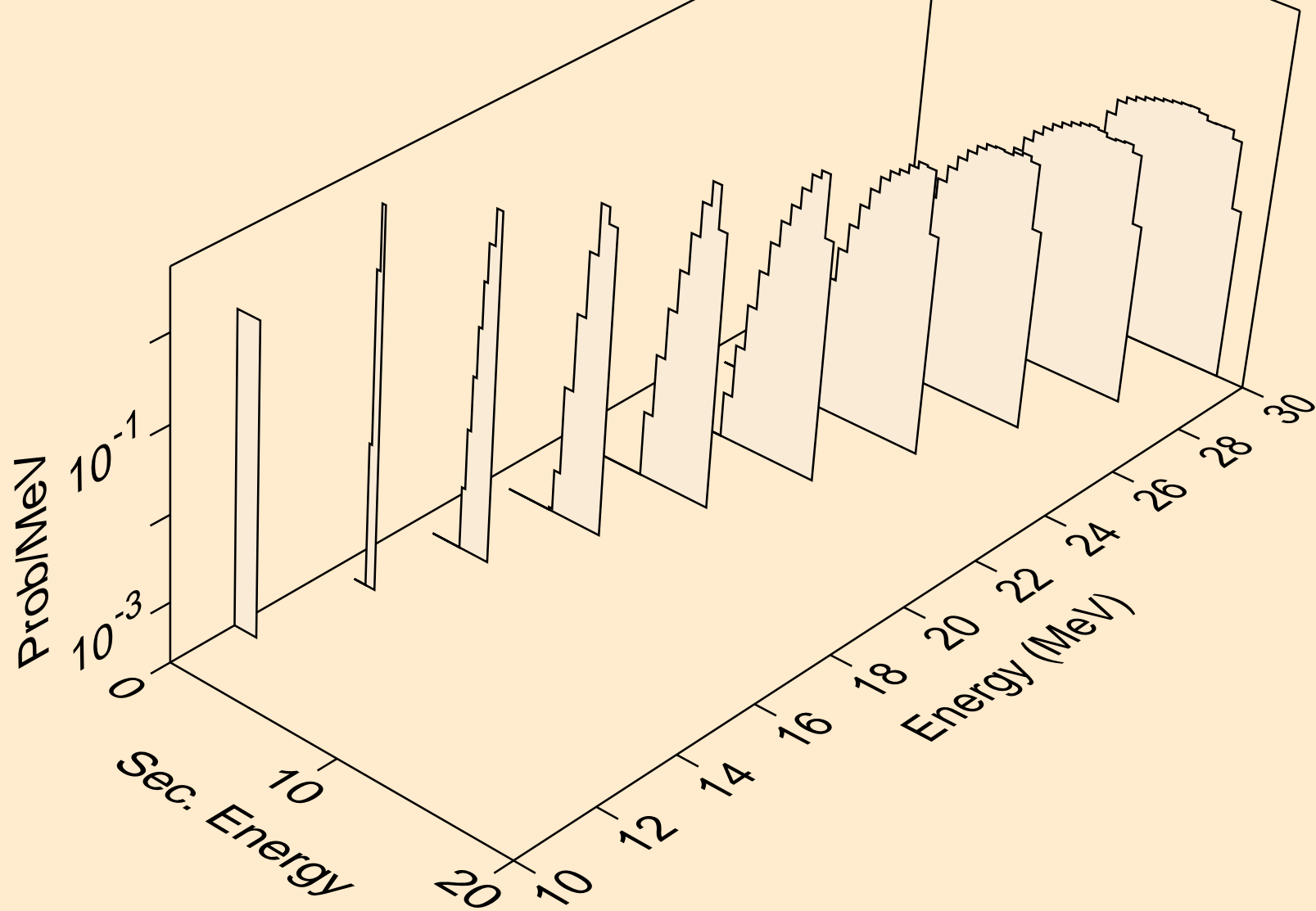
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deuterons from (n,x)



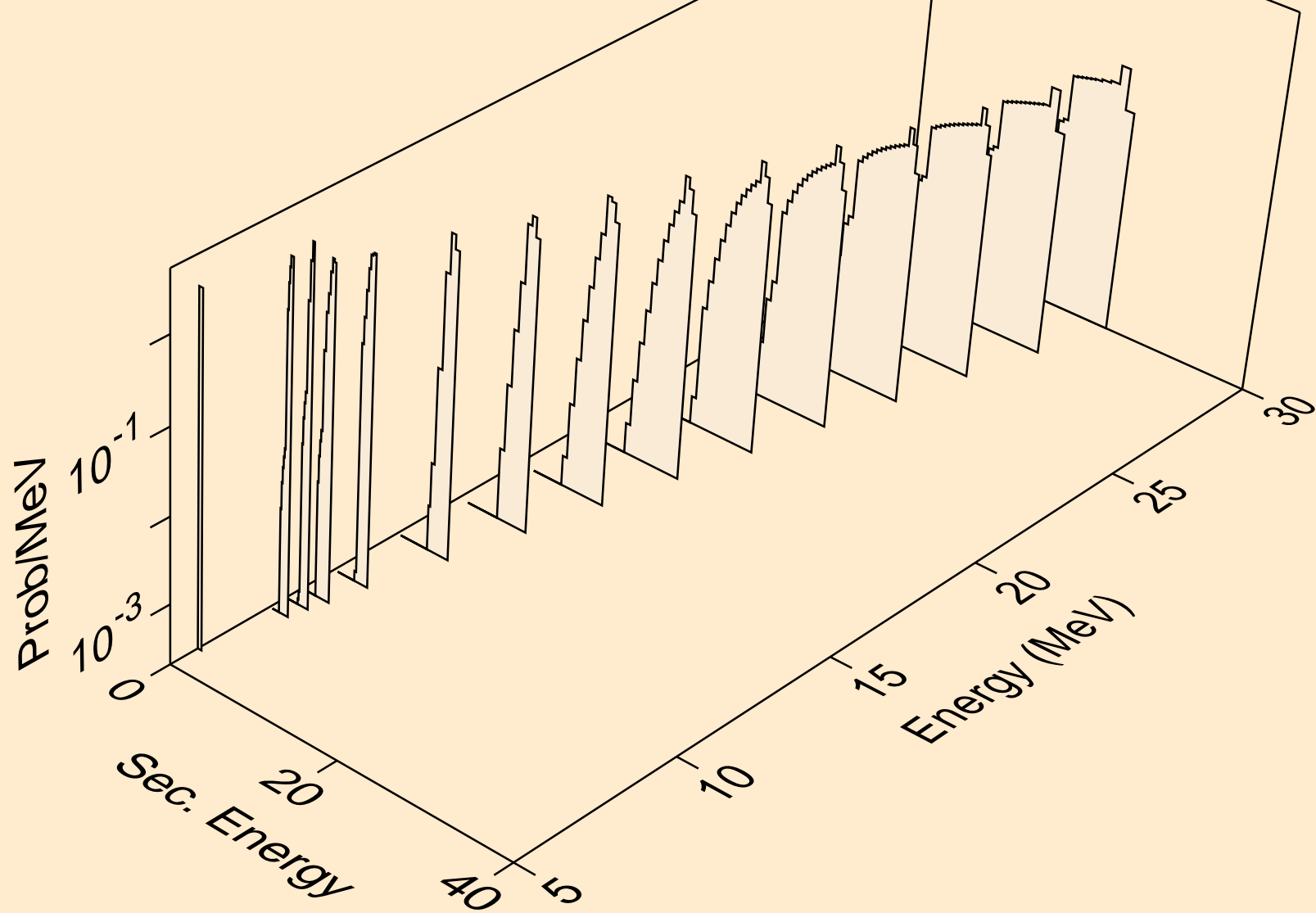
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deuterons from (n,2nd)



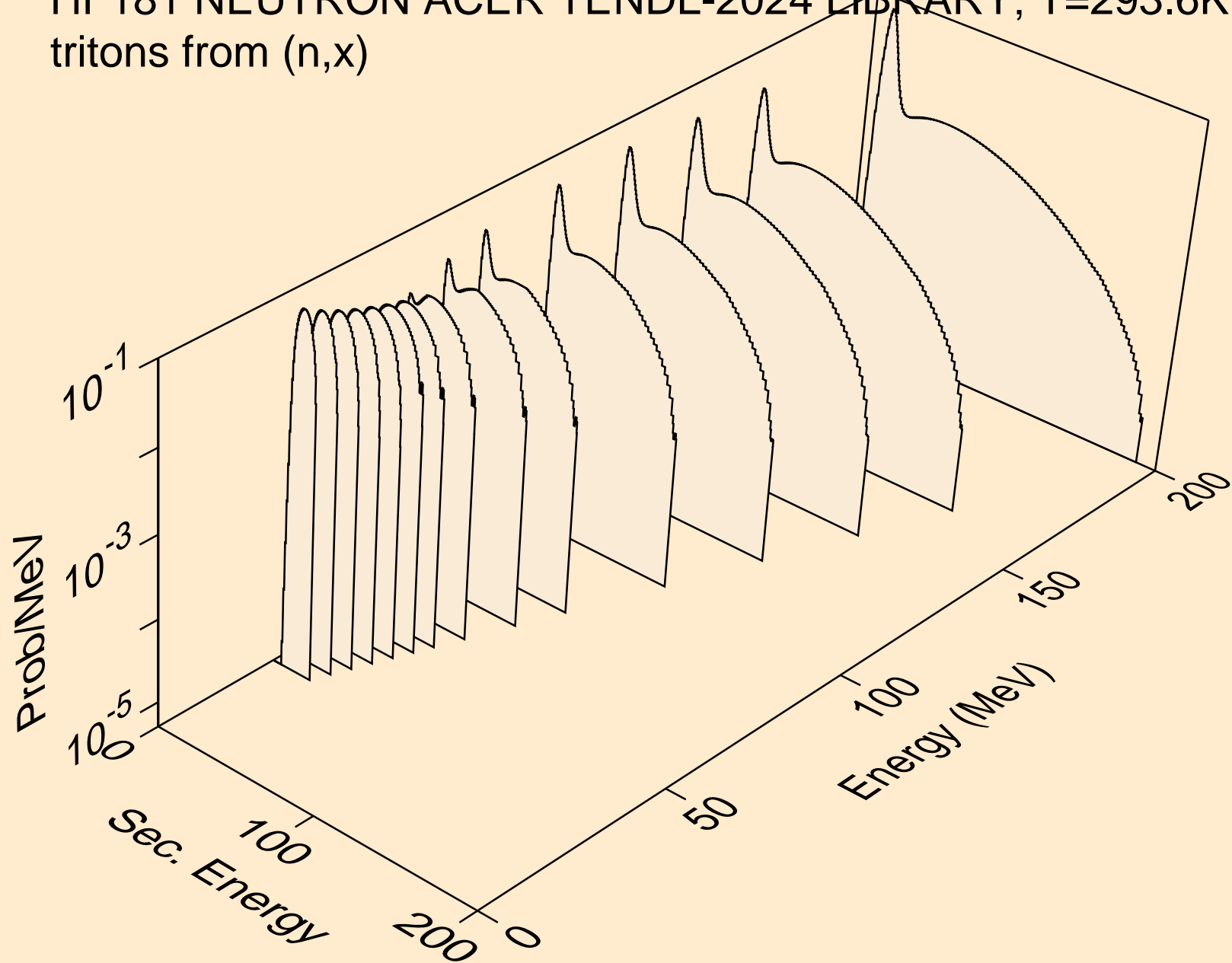
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deuterons from (n,n\*)d



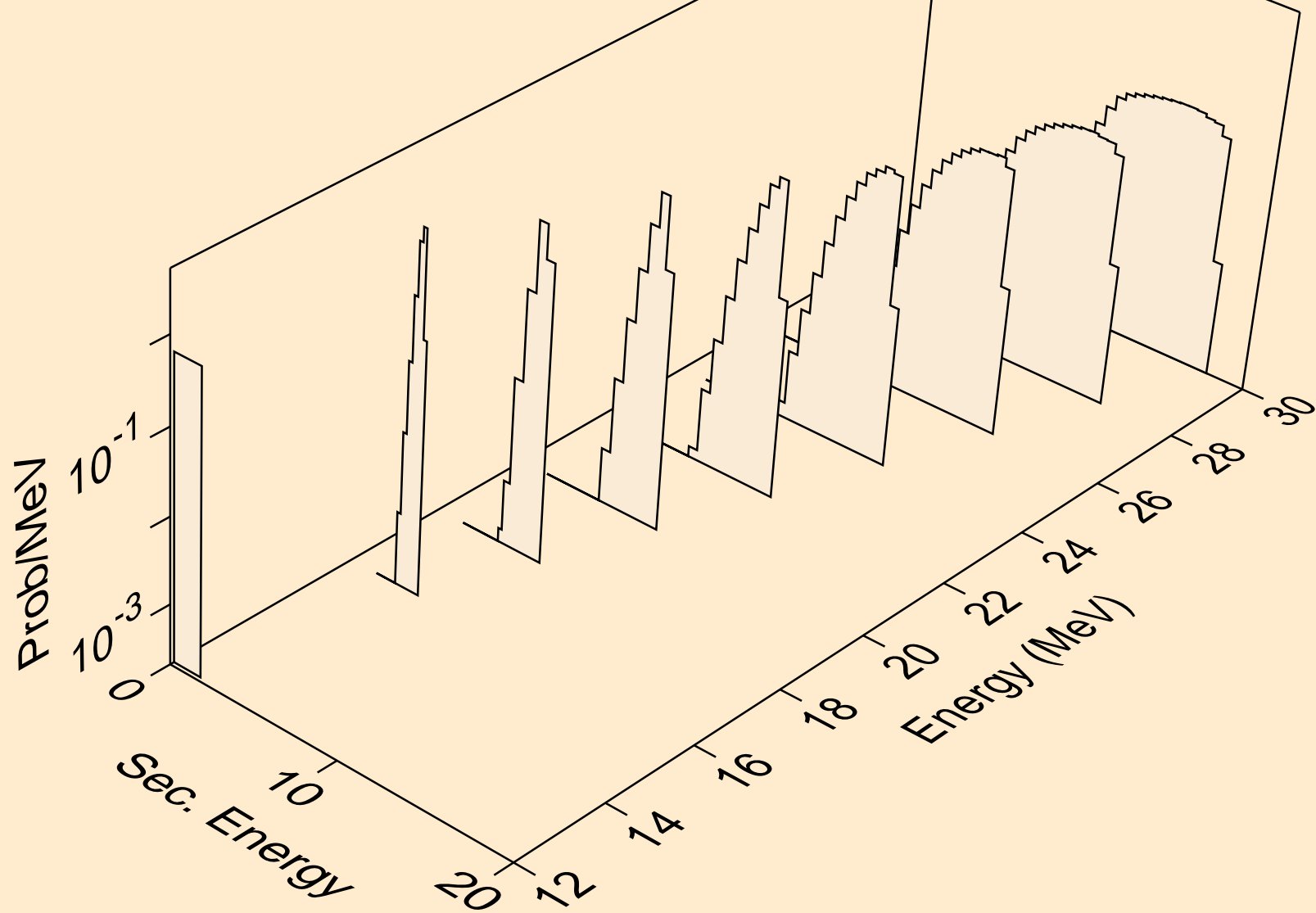
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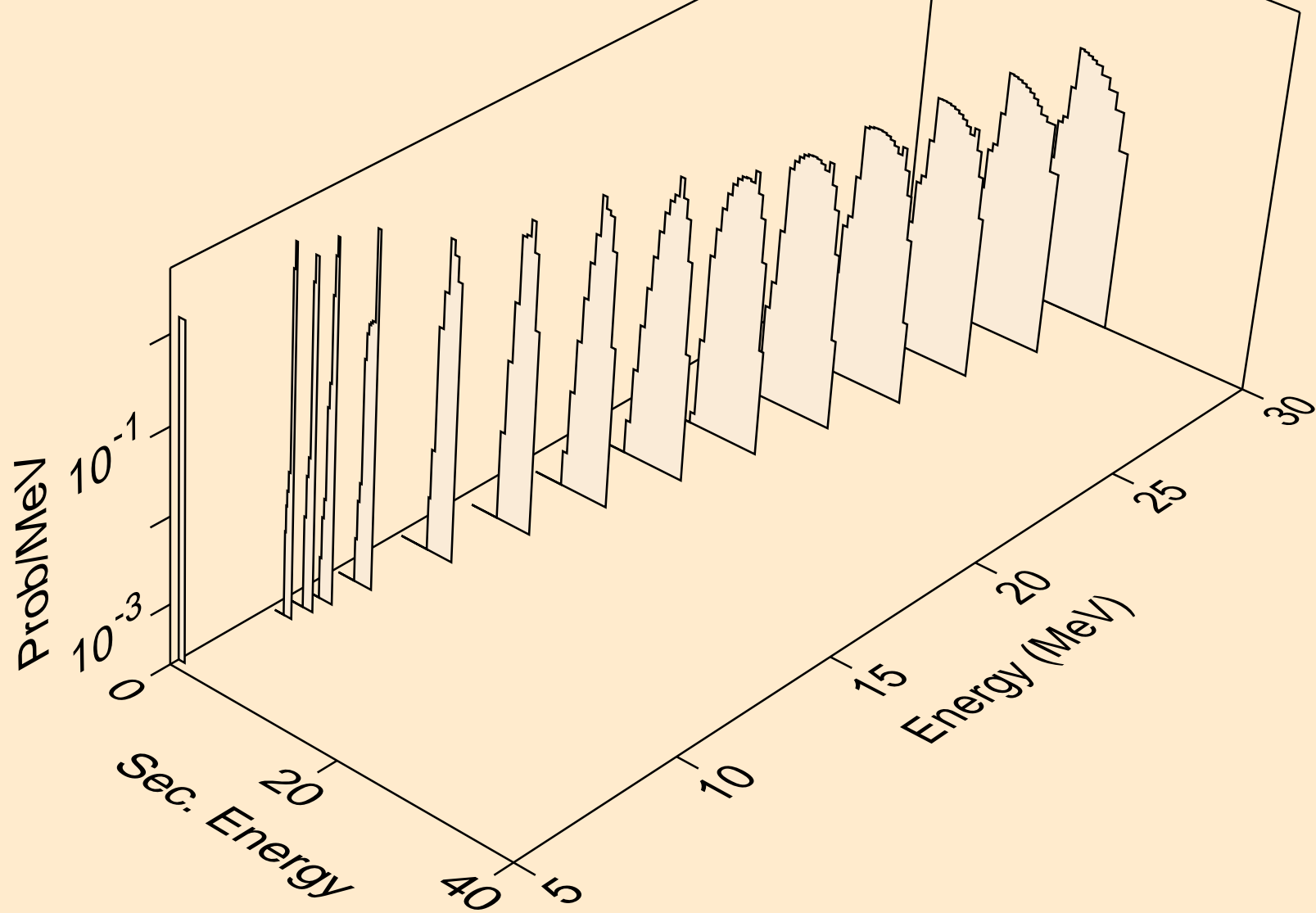
HF181 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
tritons from (n,x)



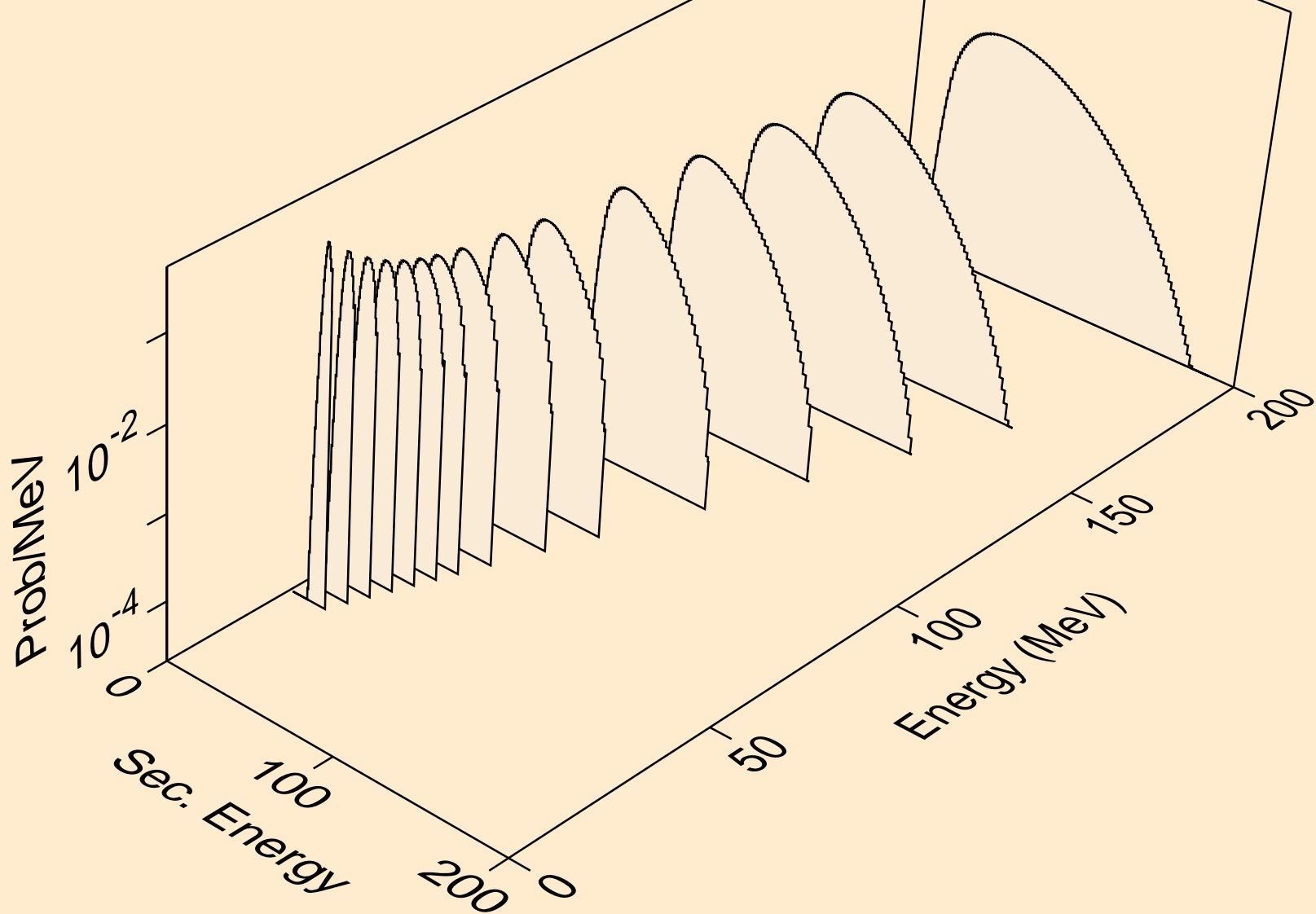
HF181 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
tritons from (n,n\*)t



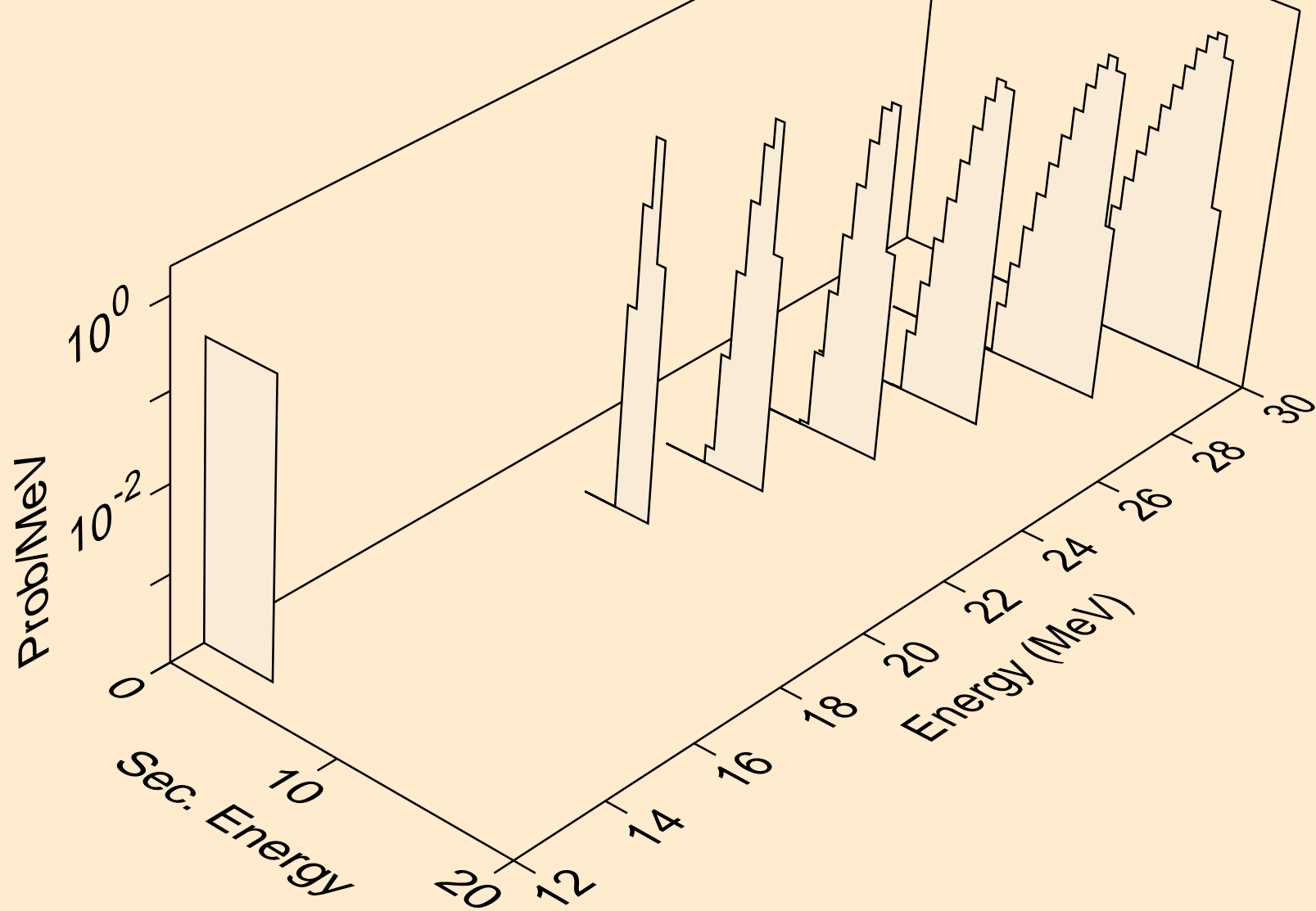
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tritons from (n,t)



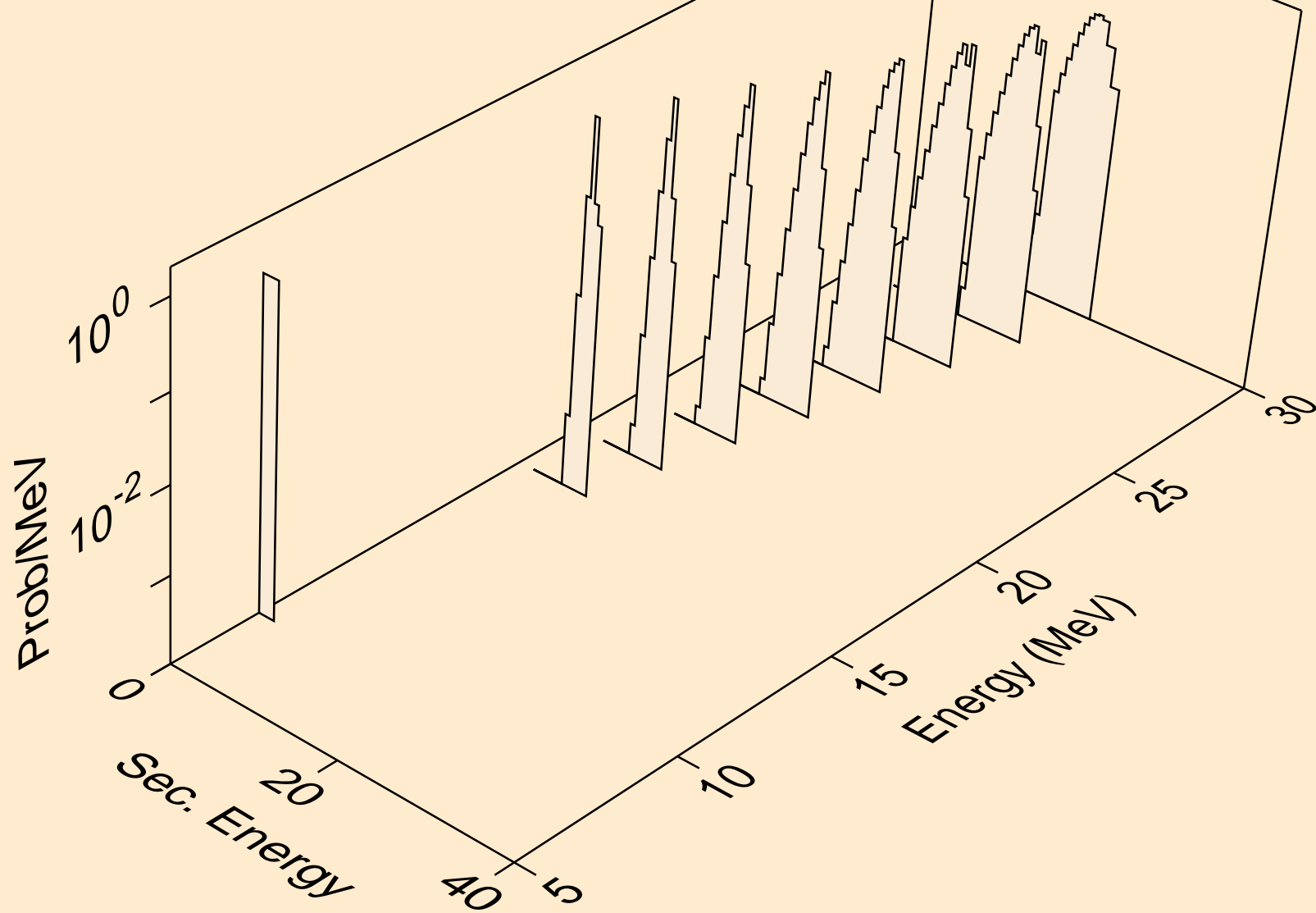
HF181 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
he3s from (n,x)



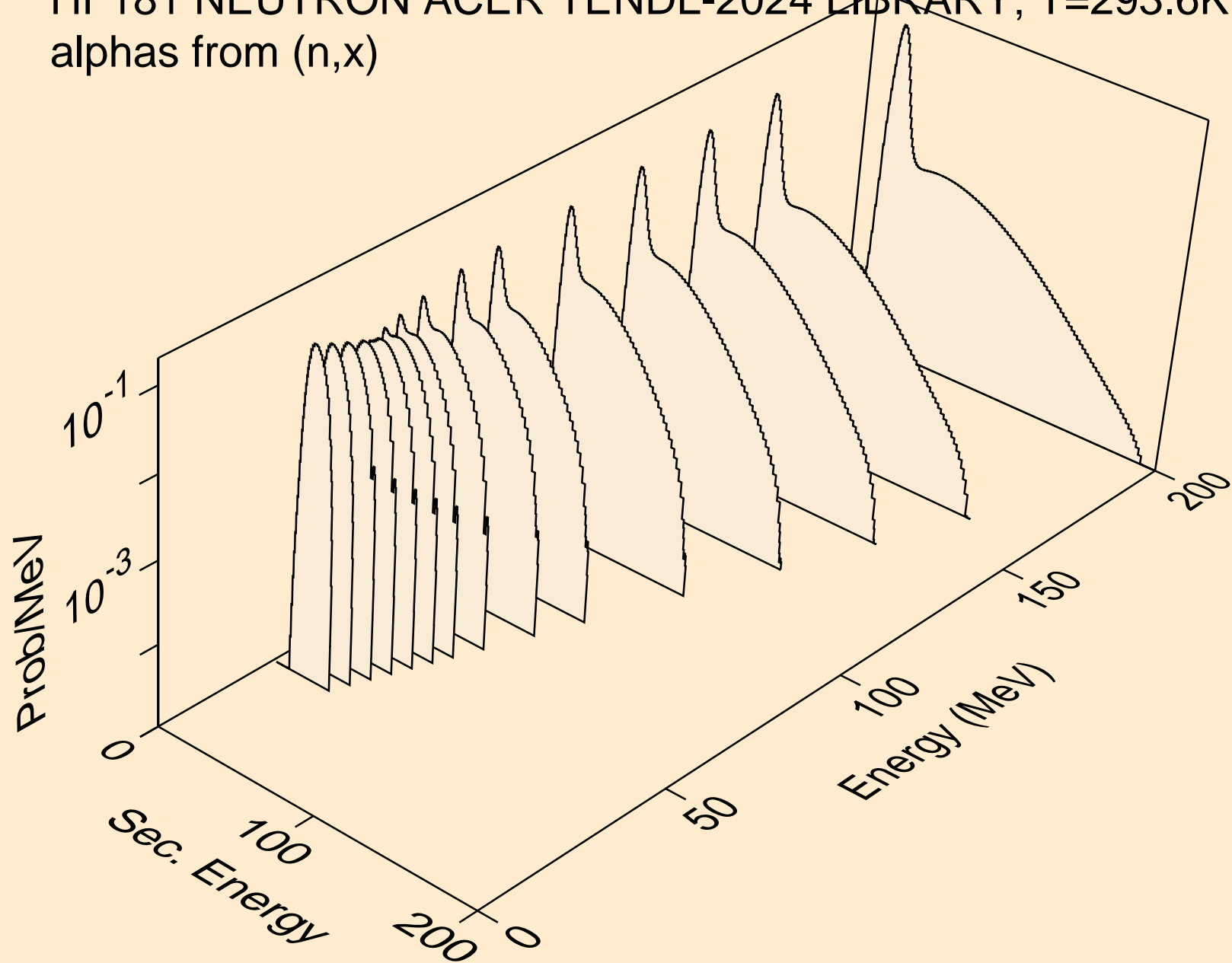
HF181 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
he3s from (n,n\*)he3



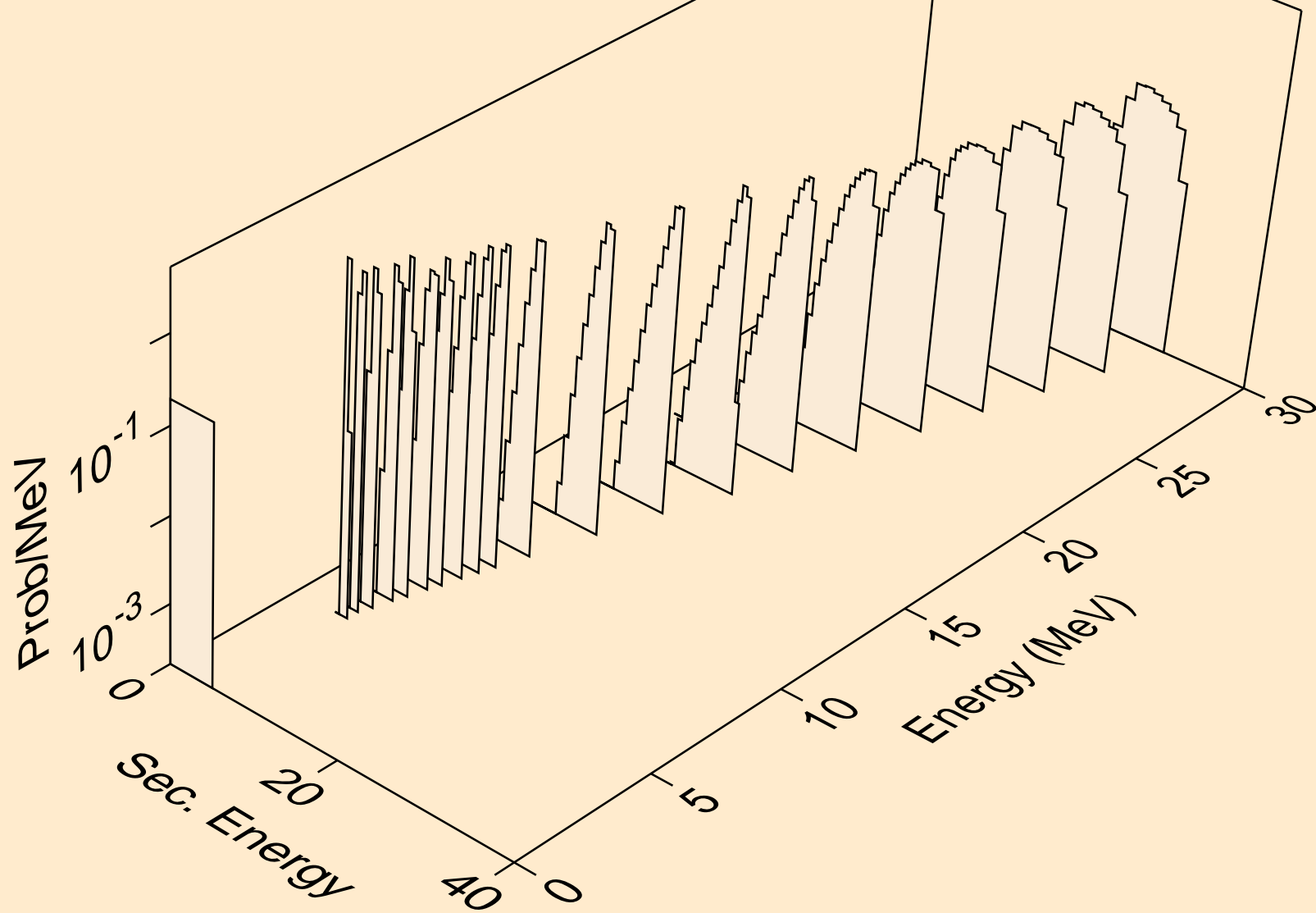
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he3s from (n,he3)



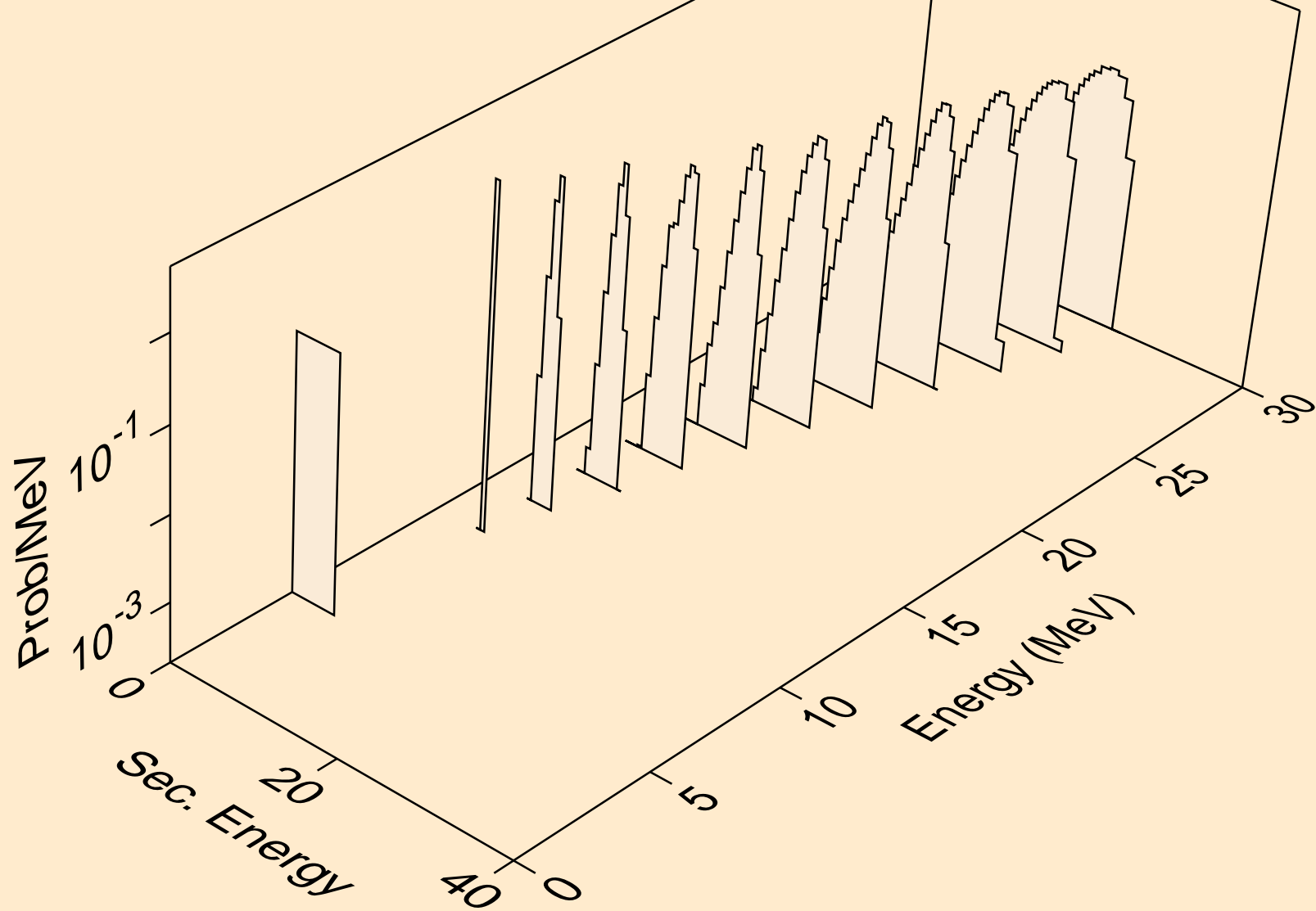
HF181 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
alphas from (n,x)



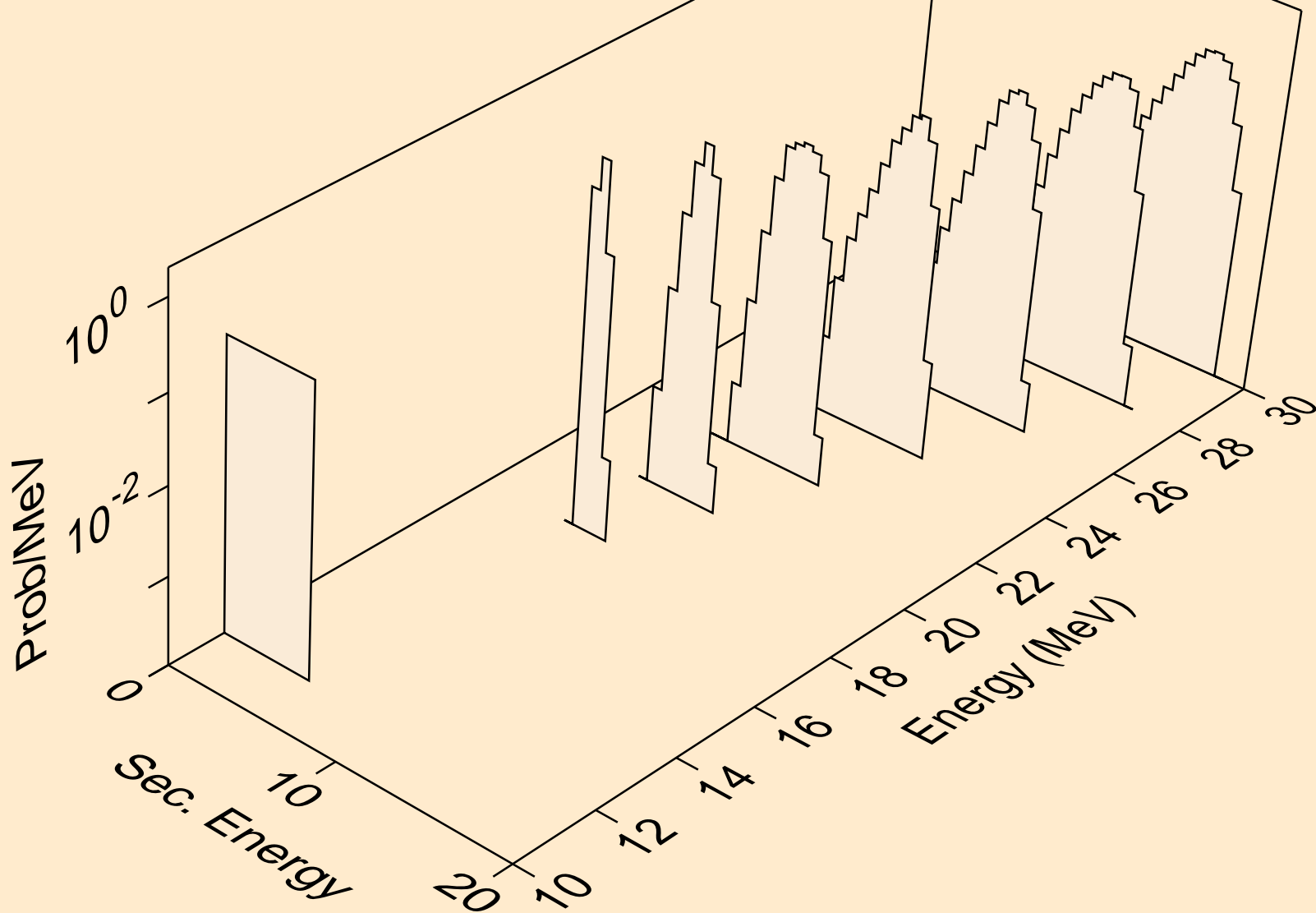
HF181 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
alphas from (n,n\*)a



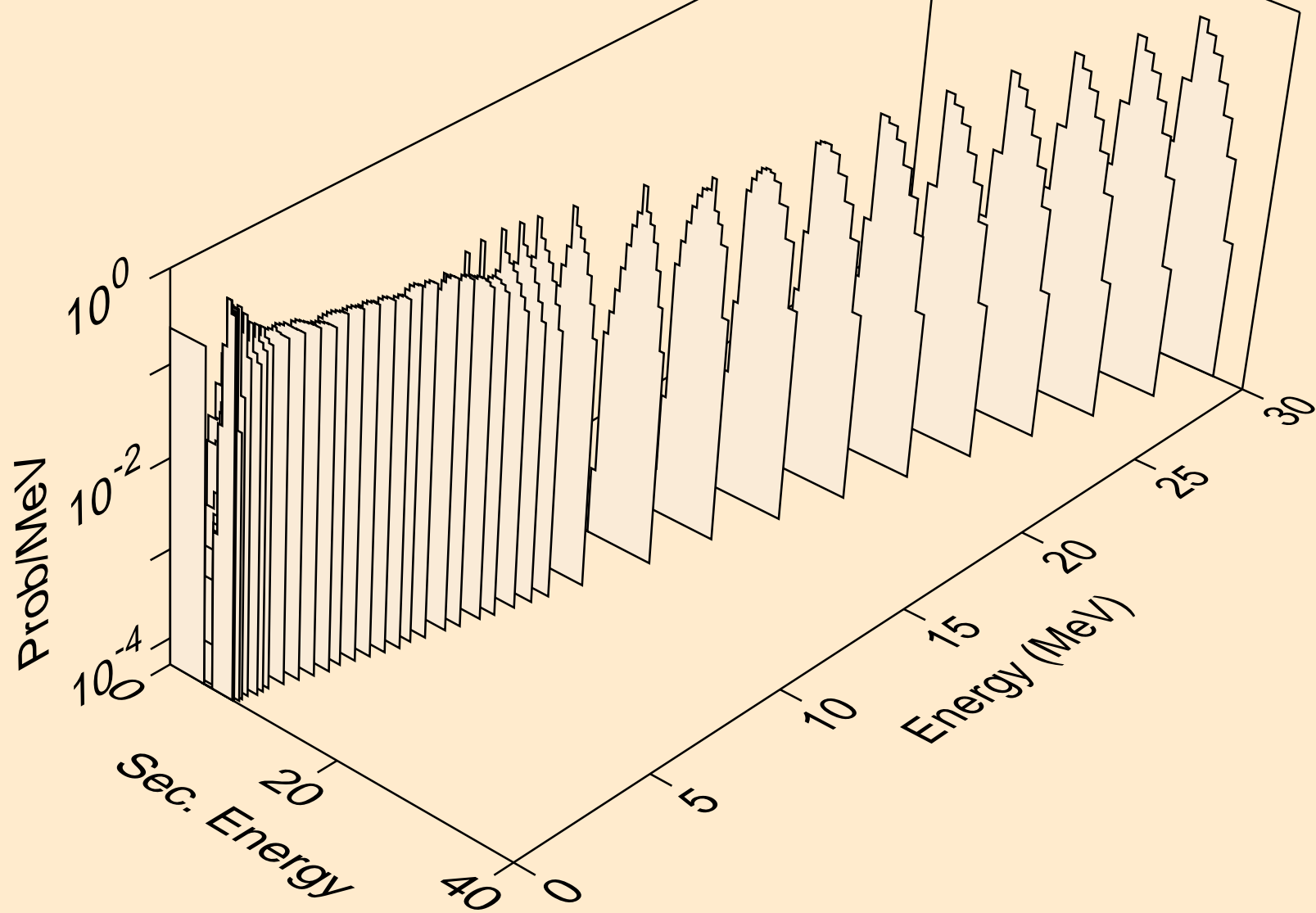
HF181 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
alphas from (n,2n)a



HF181 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
alphas from (n,3n)a



HF181 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
alphas from (n,a)



HF181 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
alphas from (n,pa)

