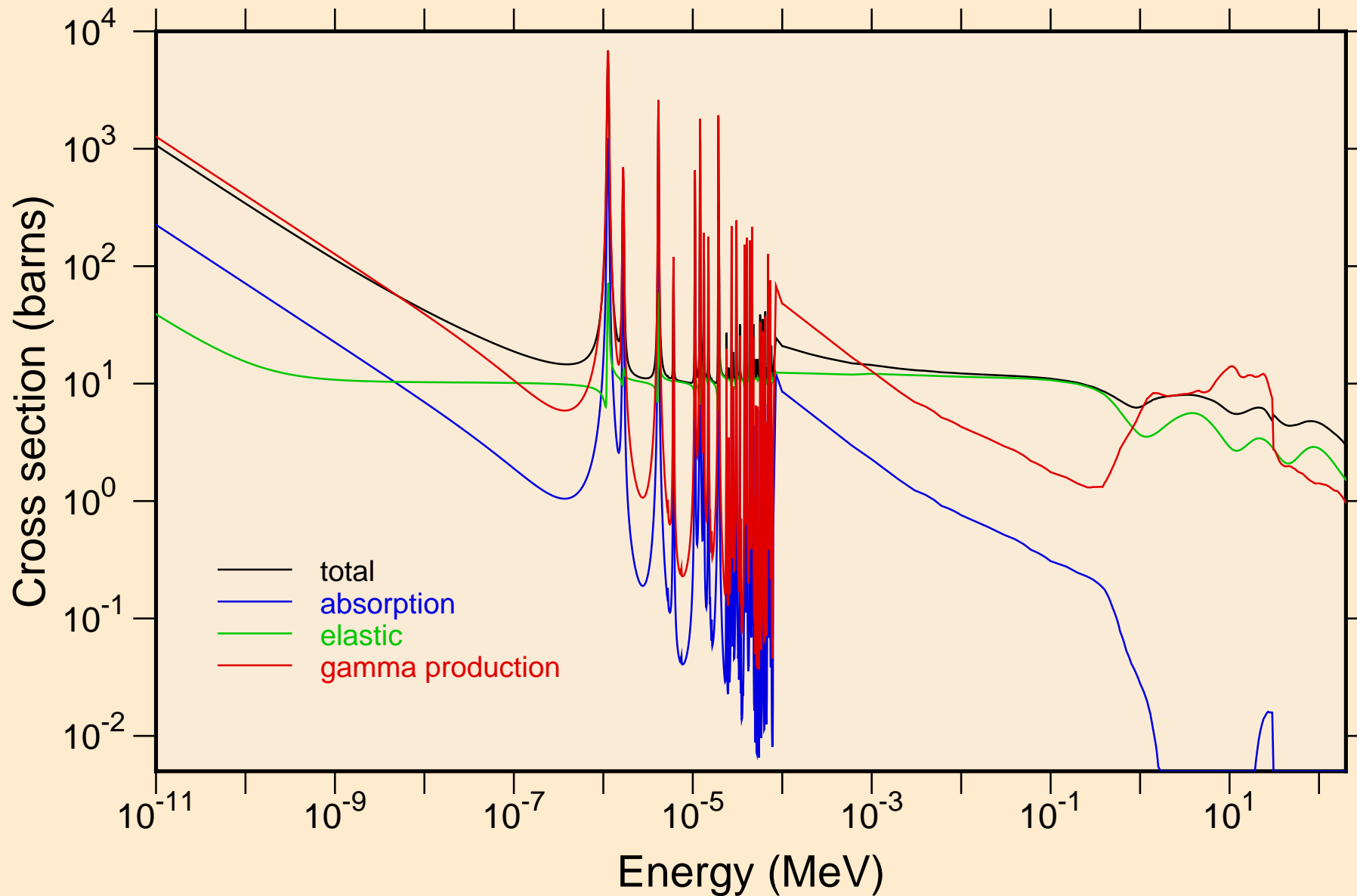
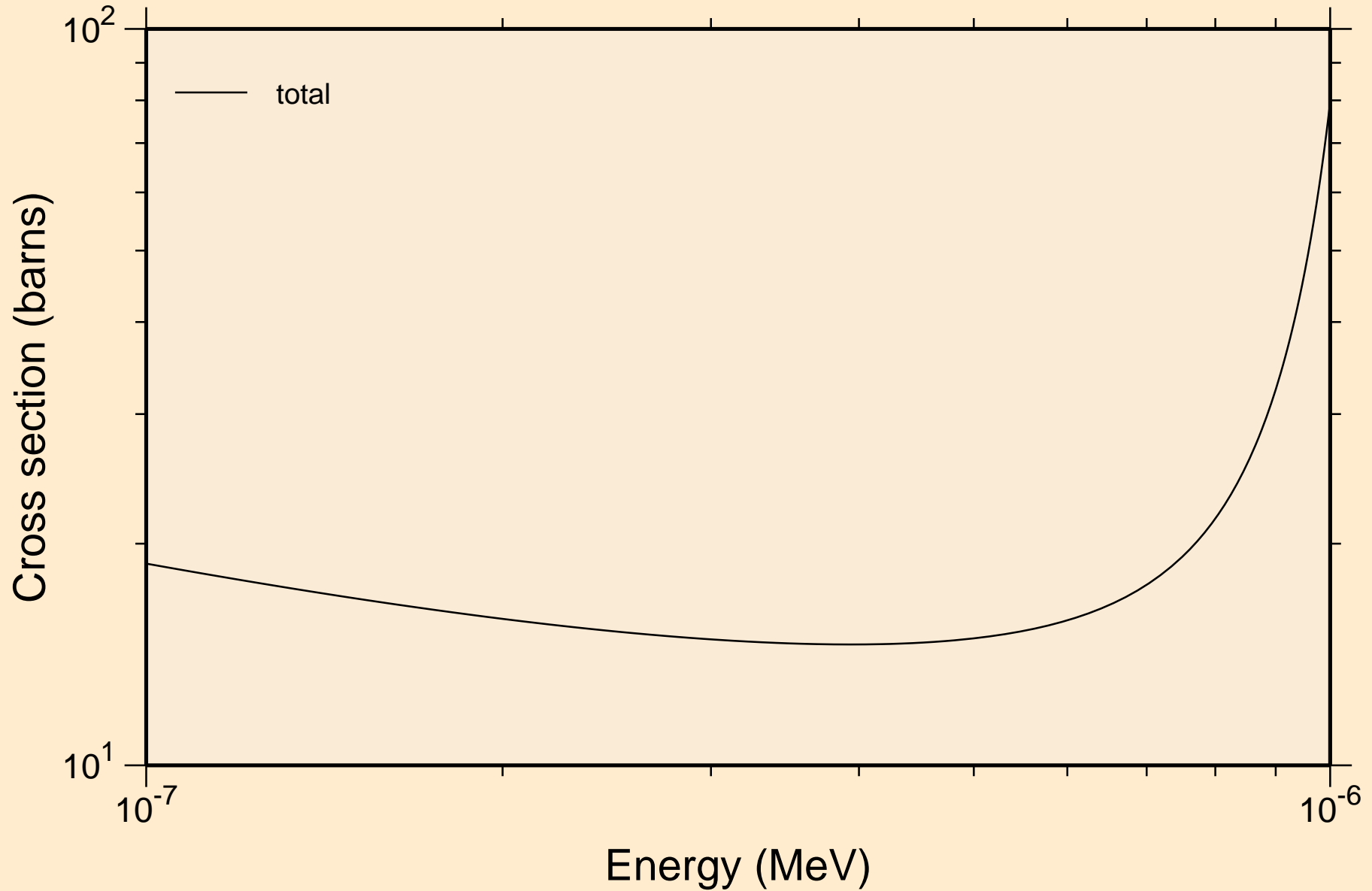


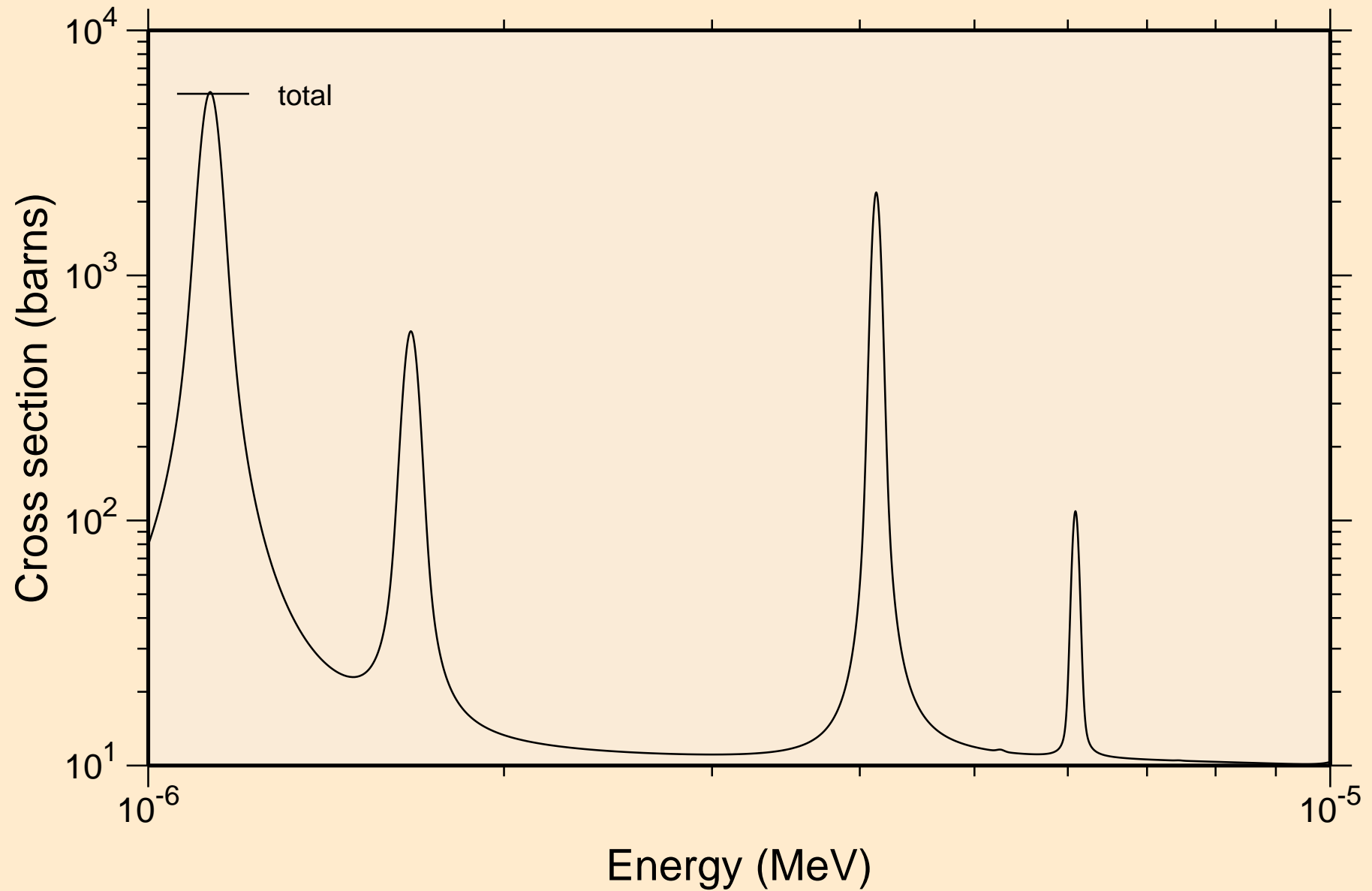
TH239 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Principal cross sections



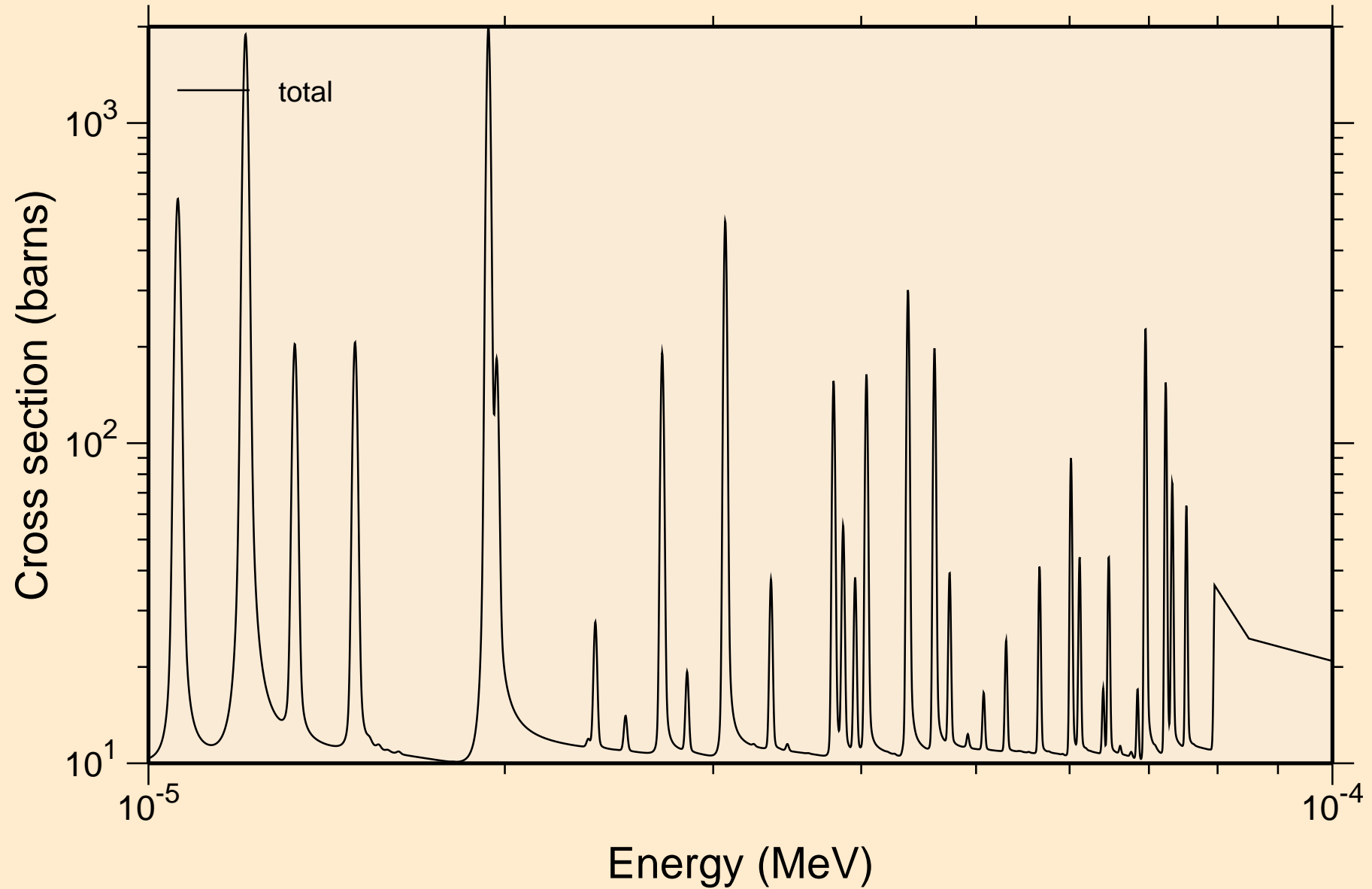
TH239 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
resonance total cross section



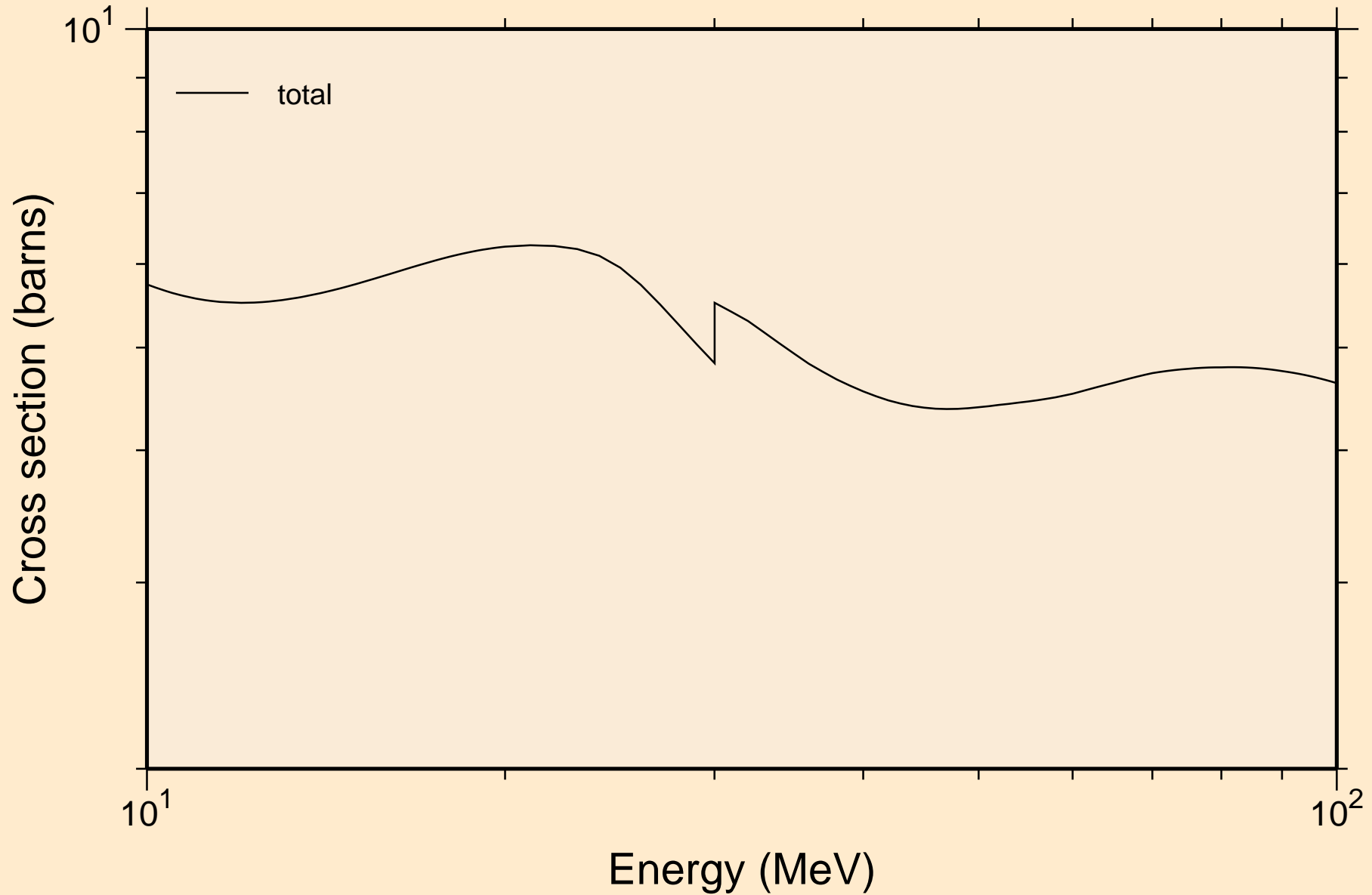
TH239 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
resonance total cross section



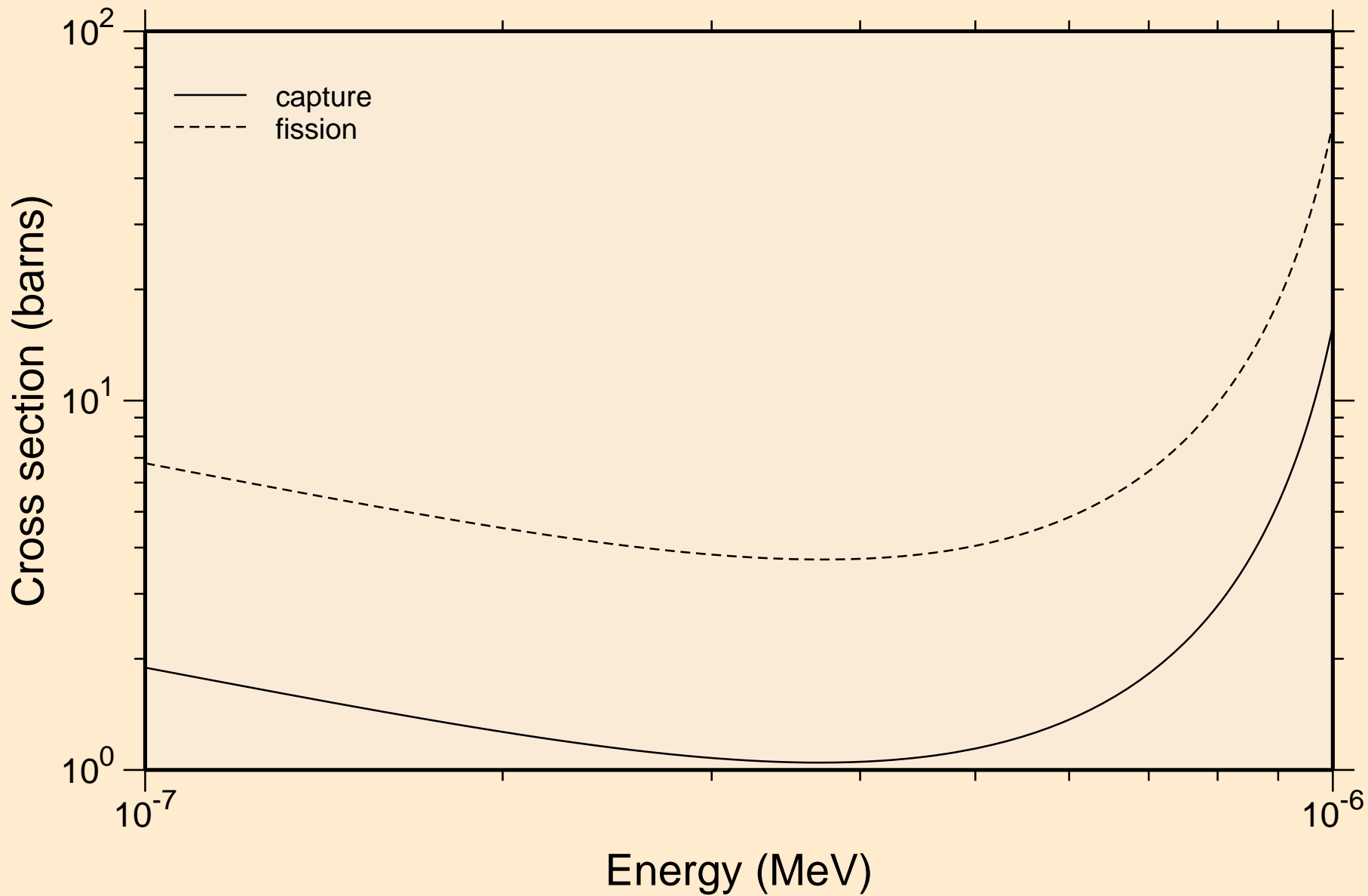
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resonance total cross section



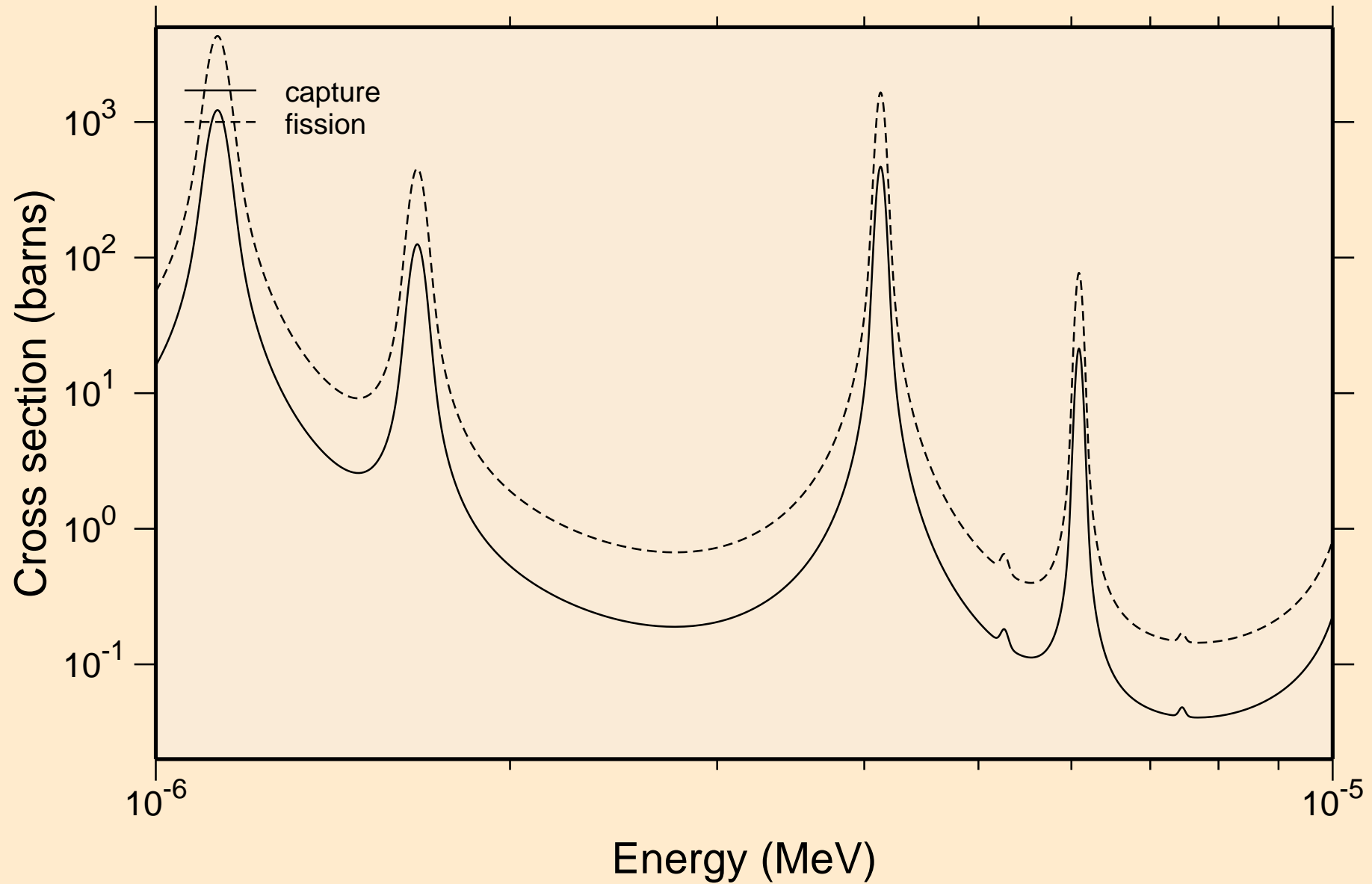
TH239 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
resonance total cross section



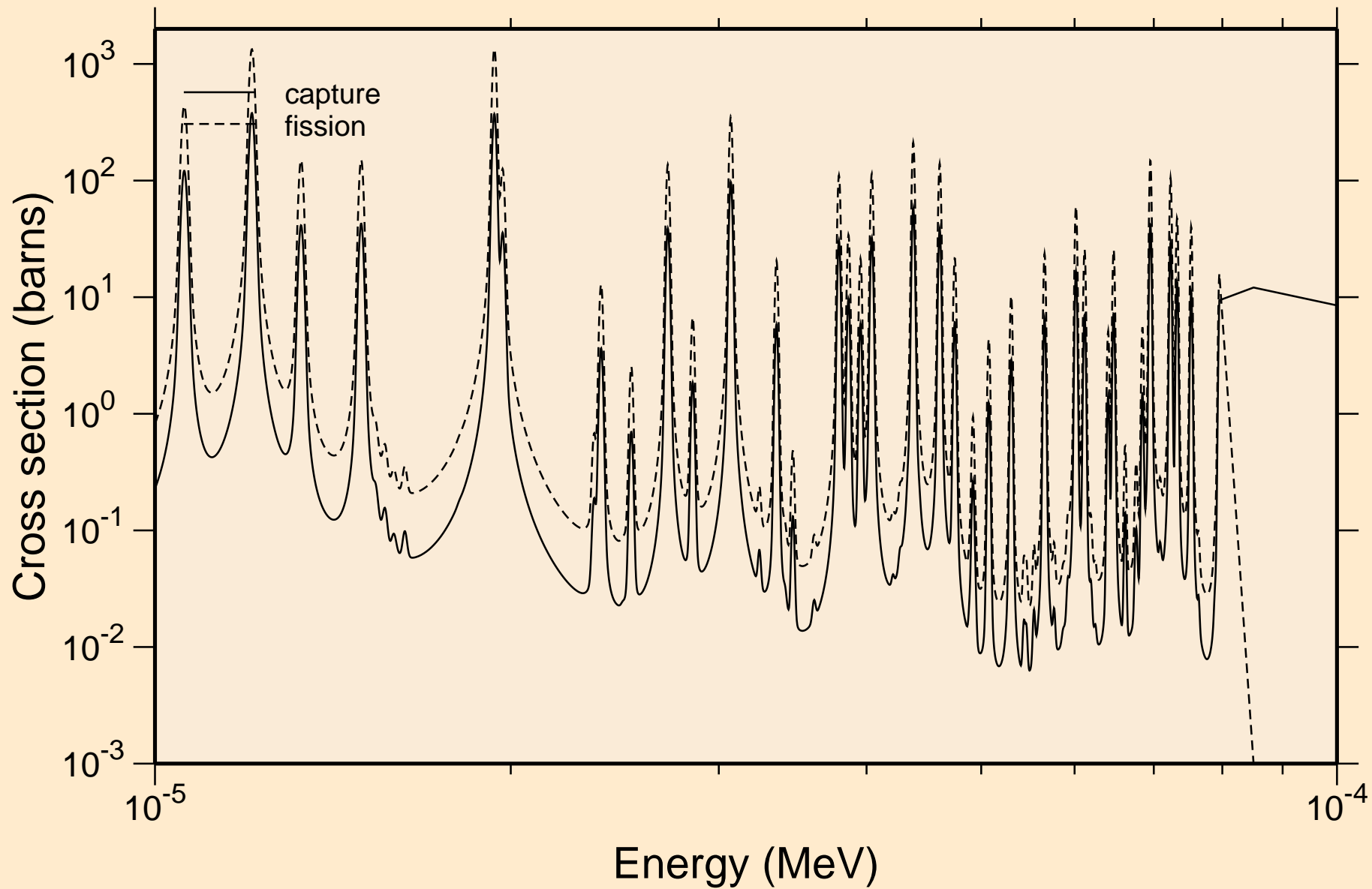
TH239 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
resonance absorption cross sections



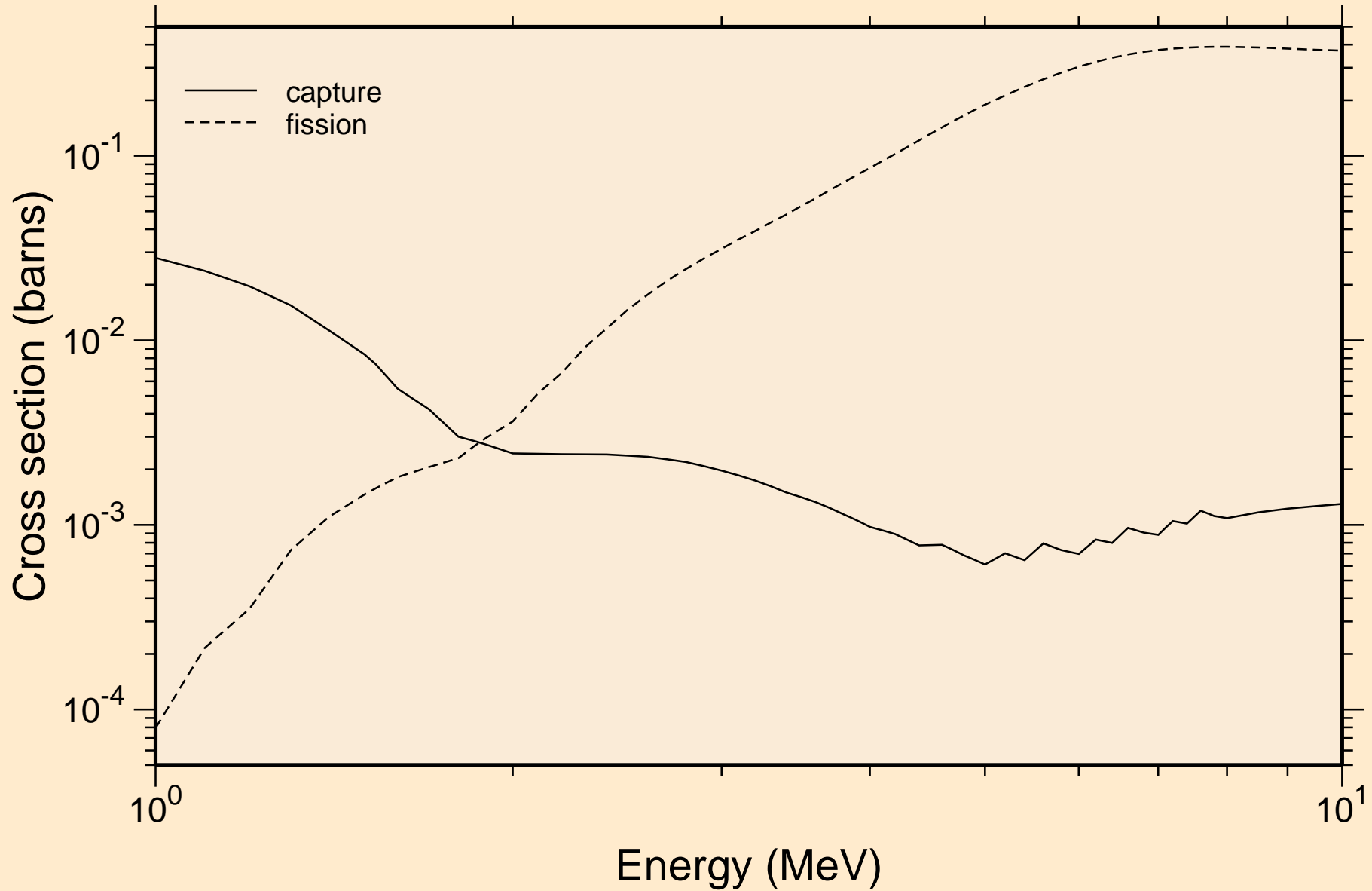
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resonance absorption cross sections



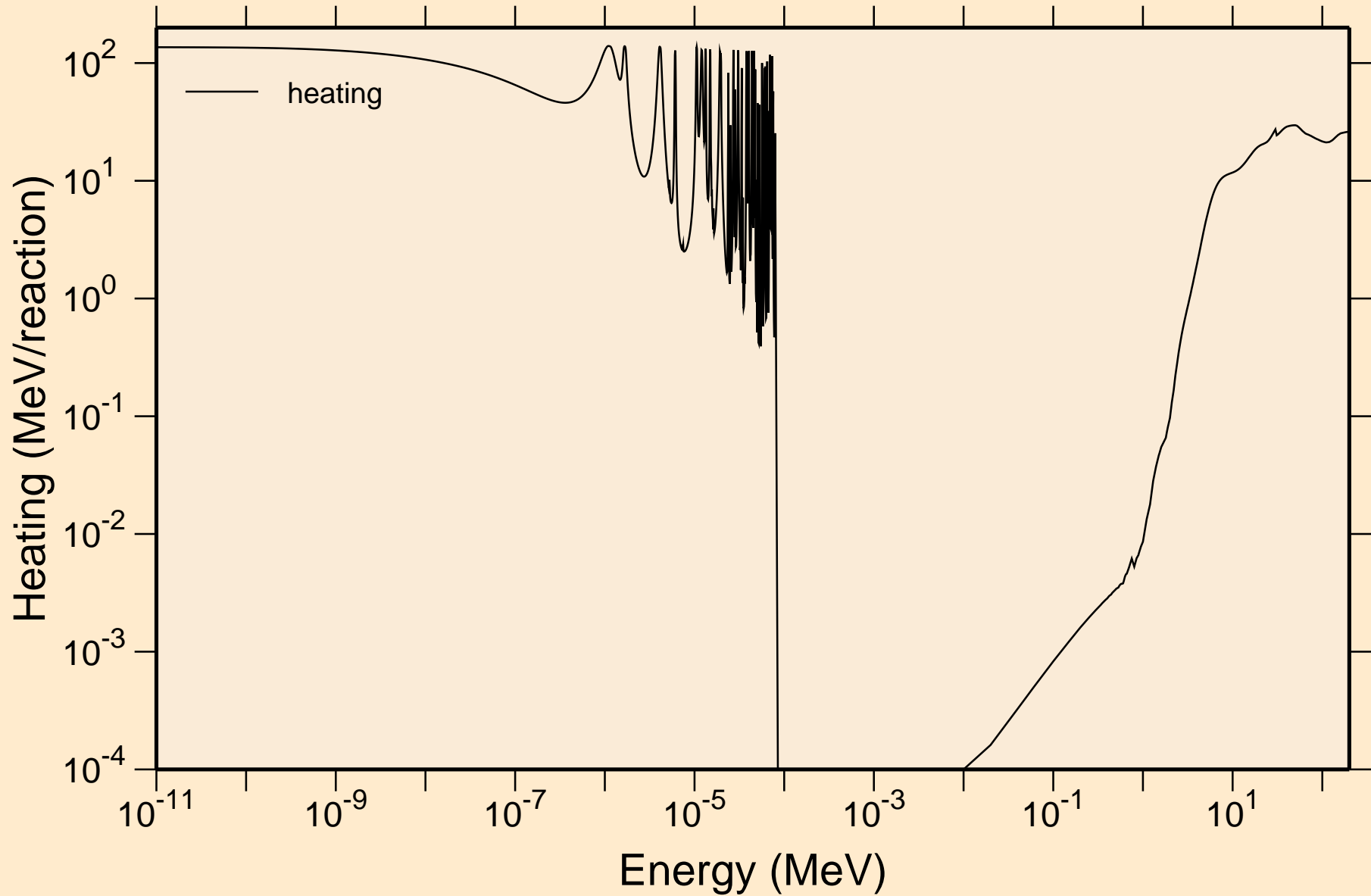
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resonance absorption cross sections



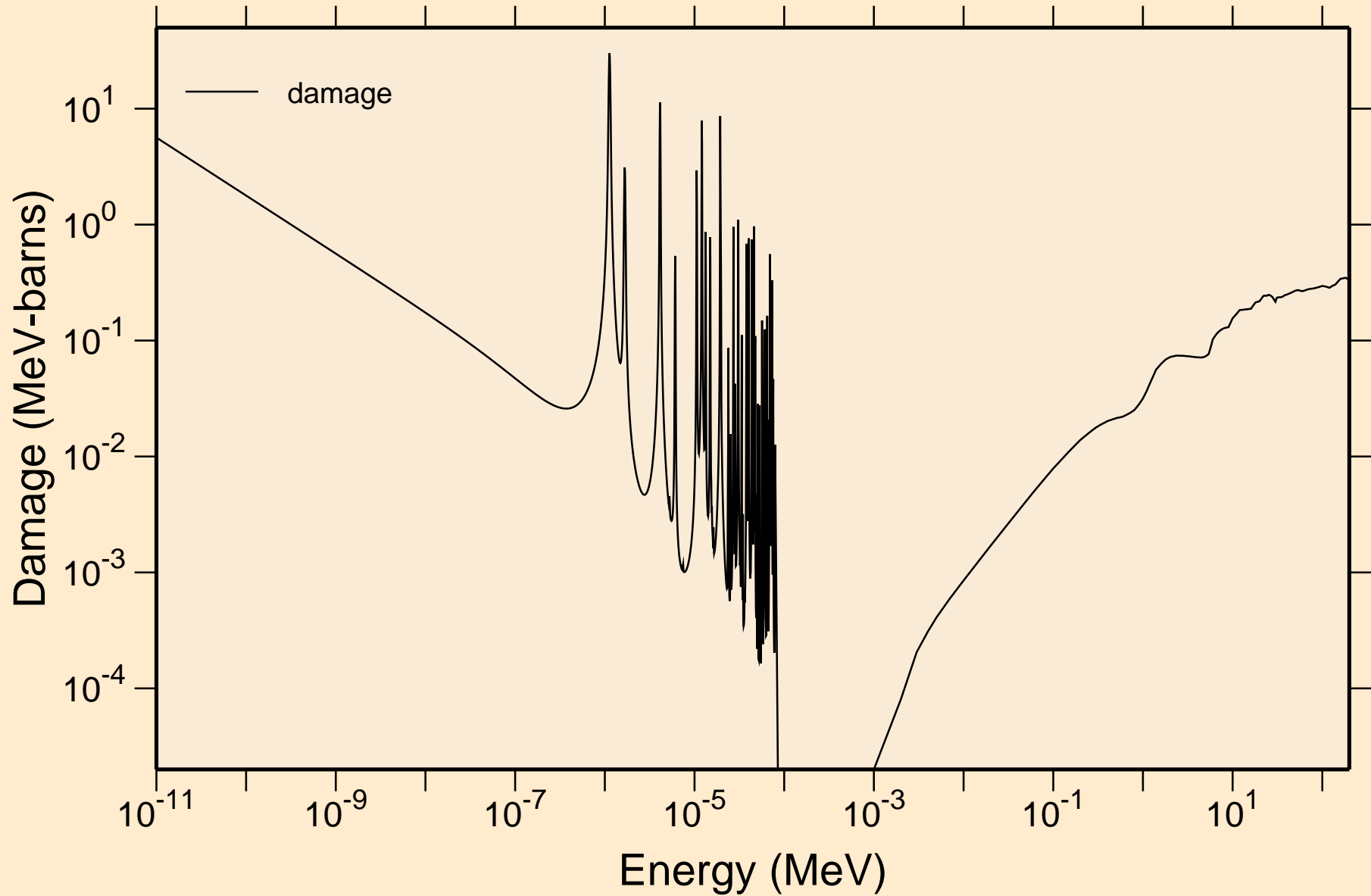
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resonance absorption cross sections



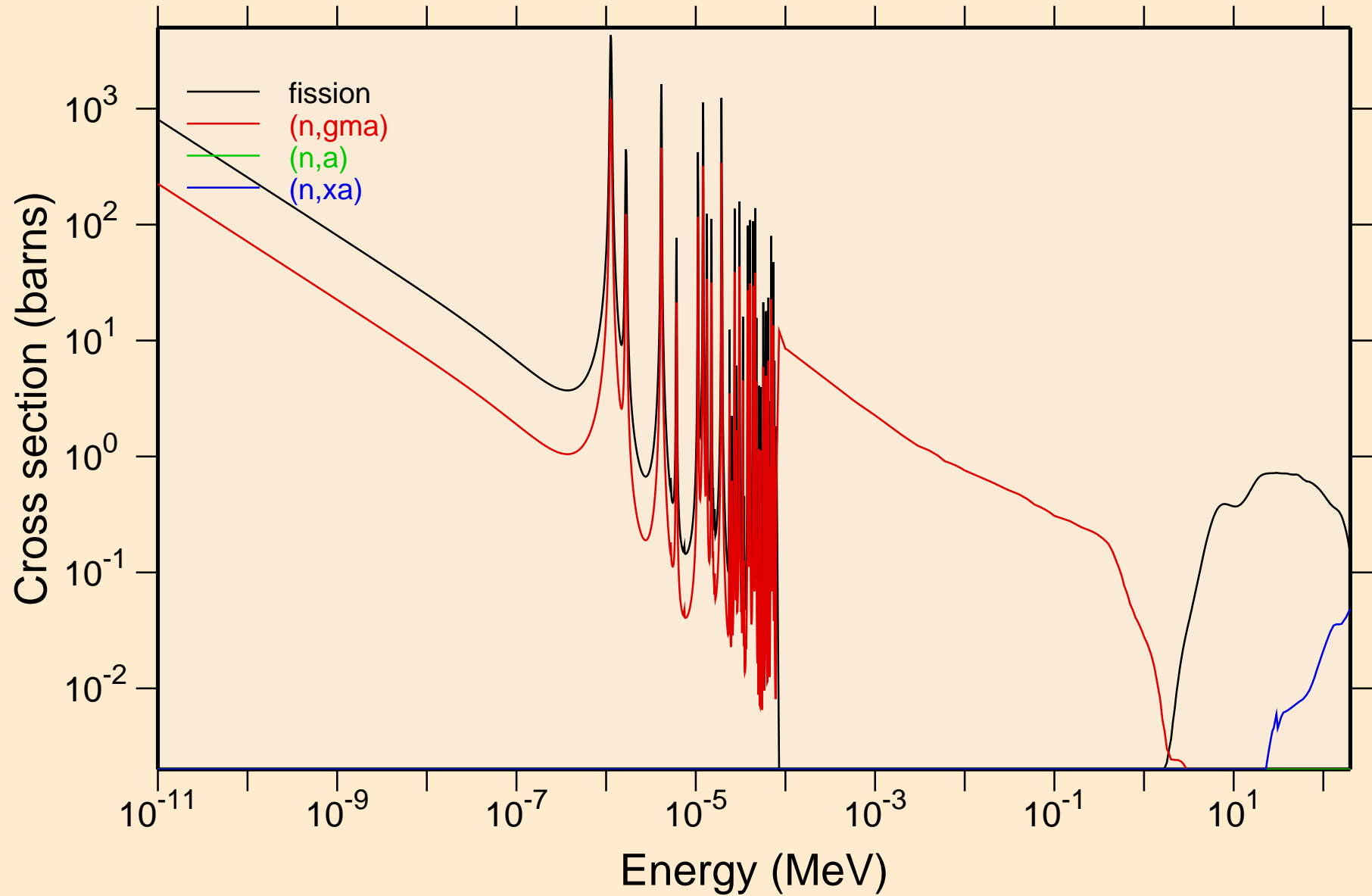
TH239 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Heating



TH239 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Damage

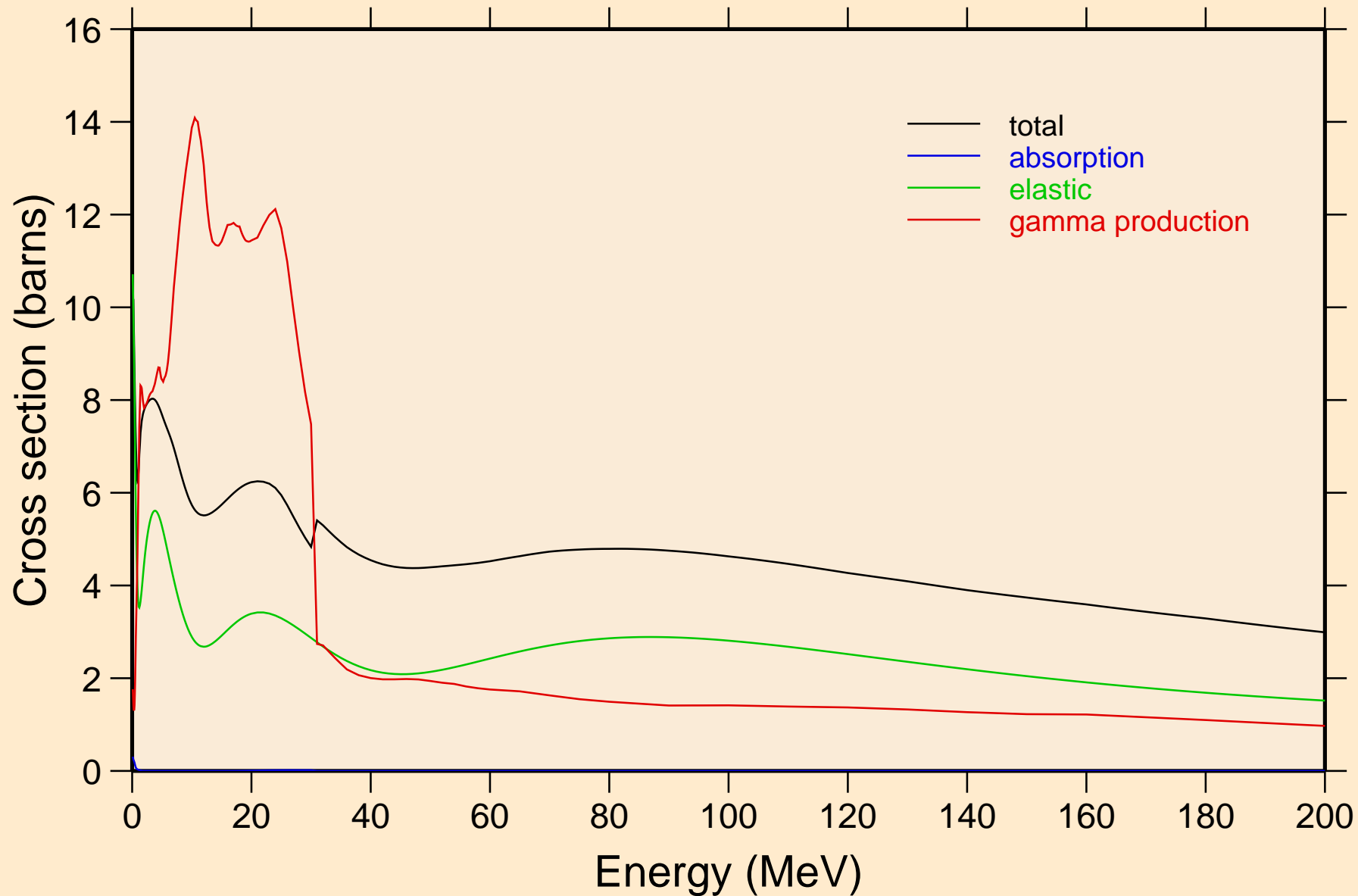


TH239 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Non-threshold reactions

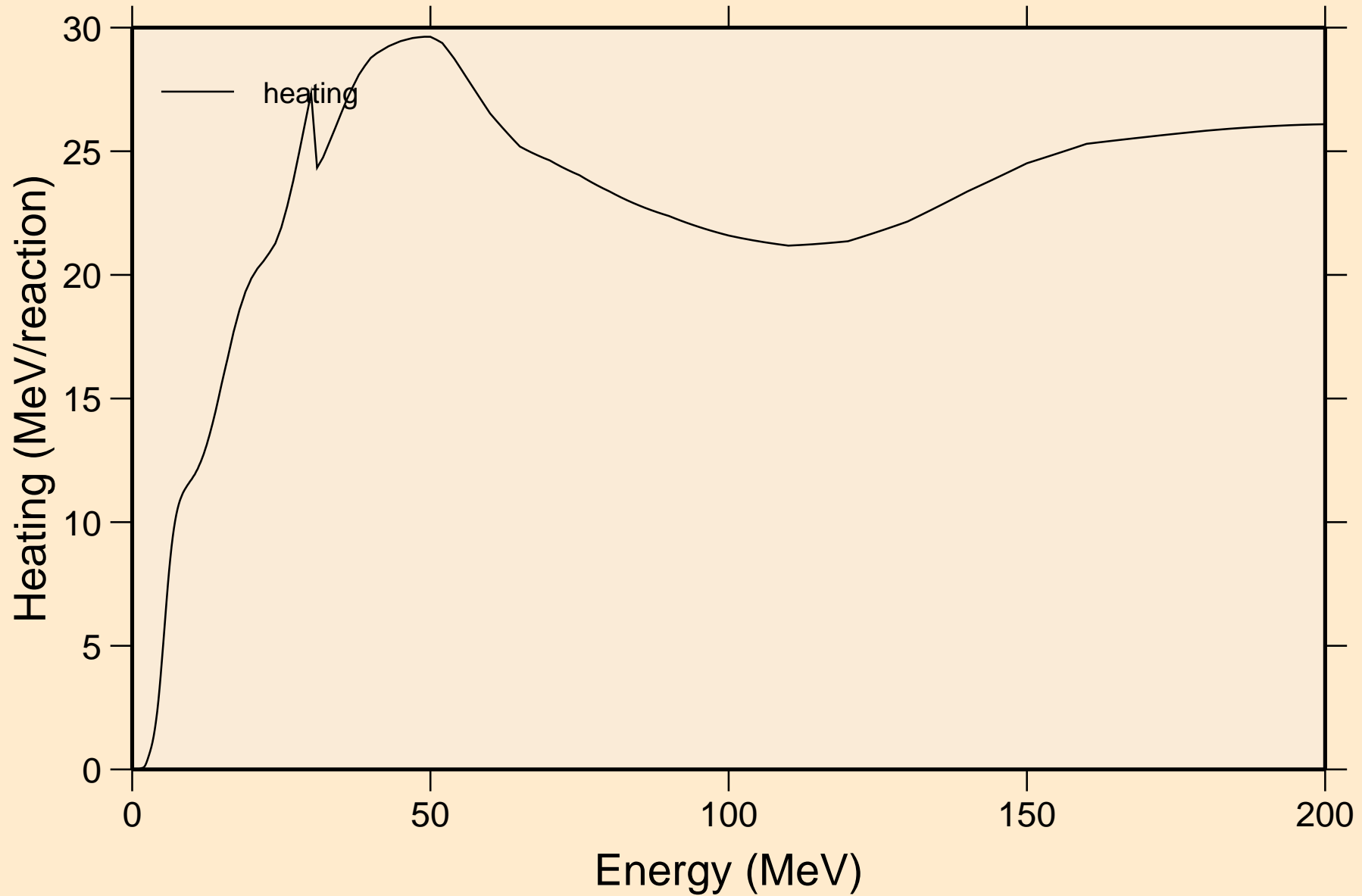


# TH239 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K

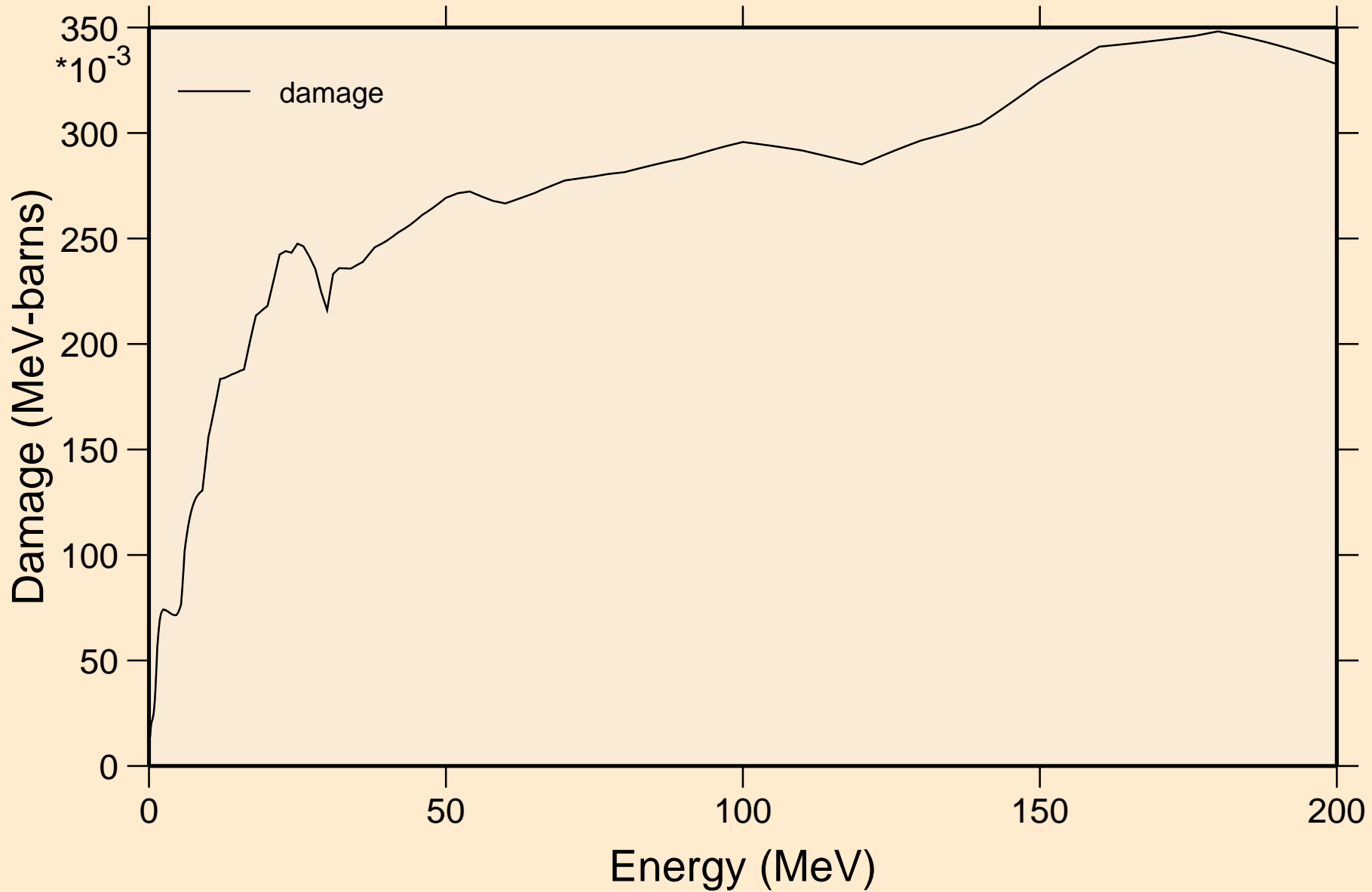
## Principal cross sections



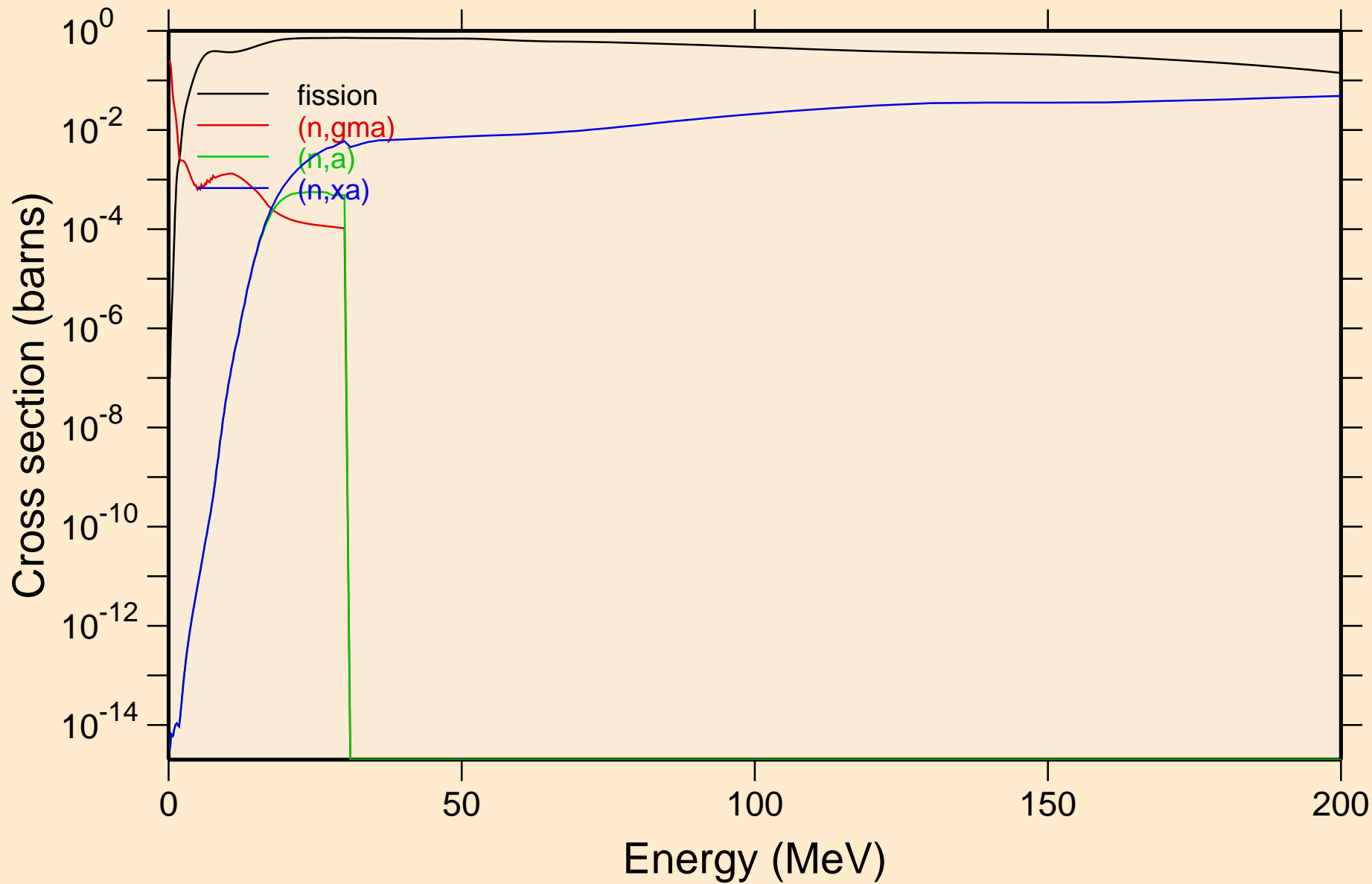
TH239 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Heating



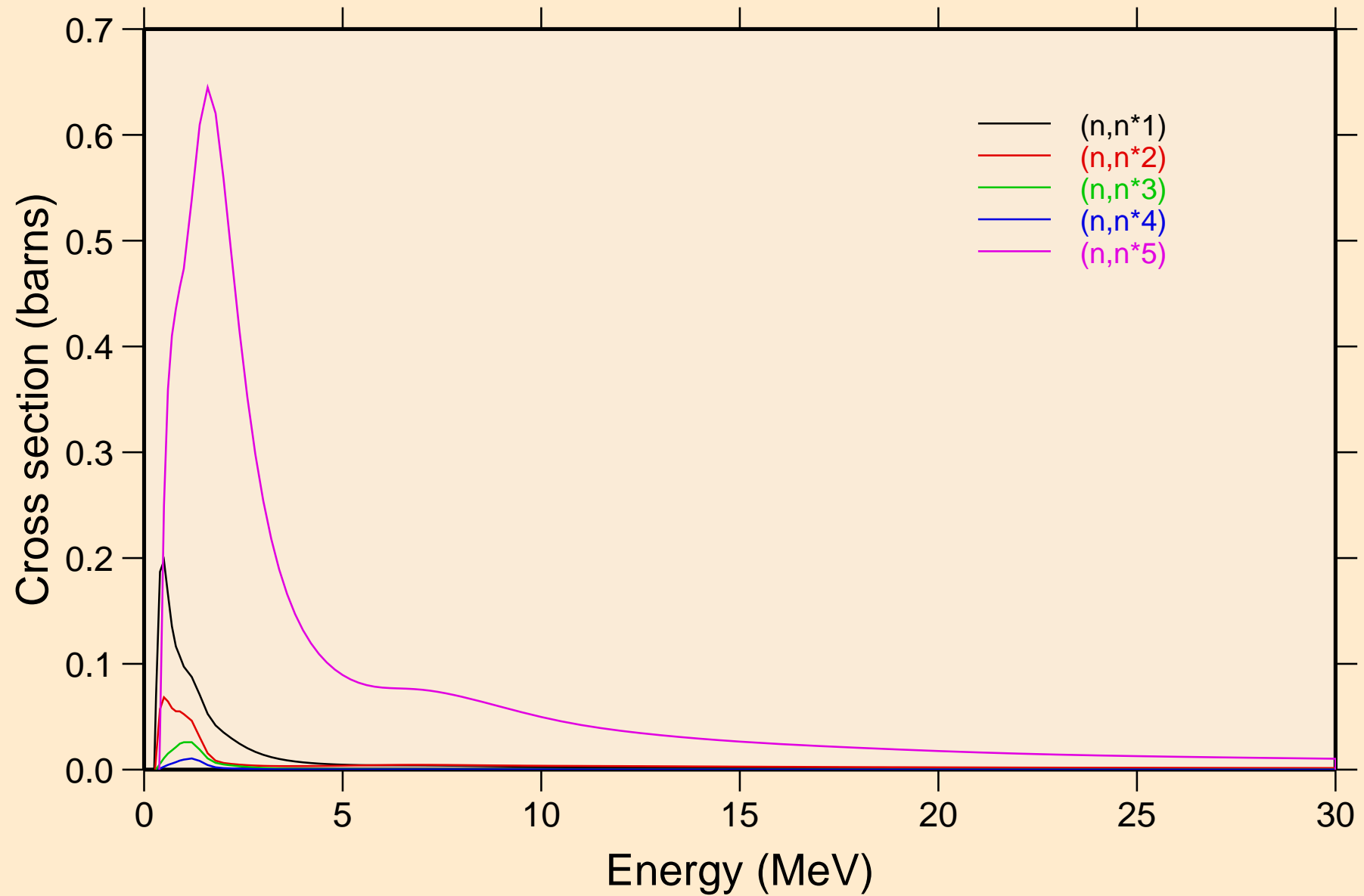
TH239 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Damage



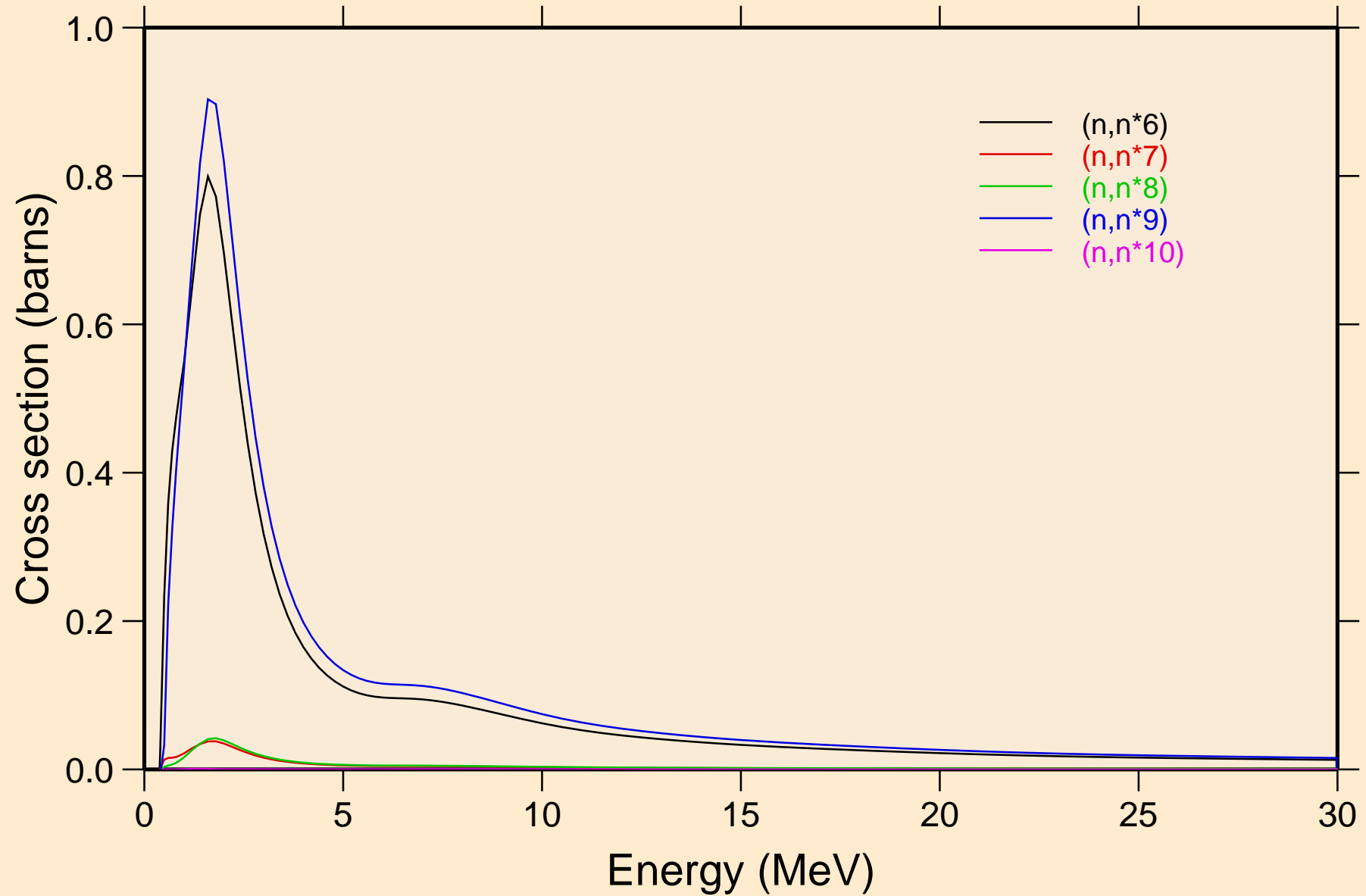
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Non-threshold reactions



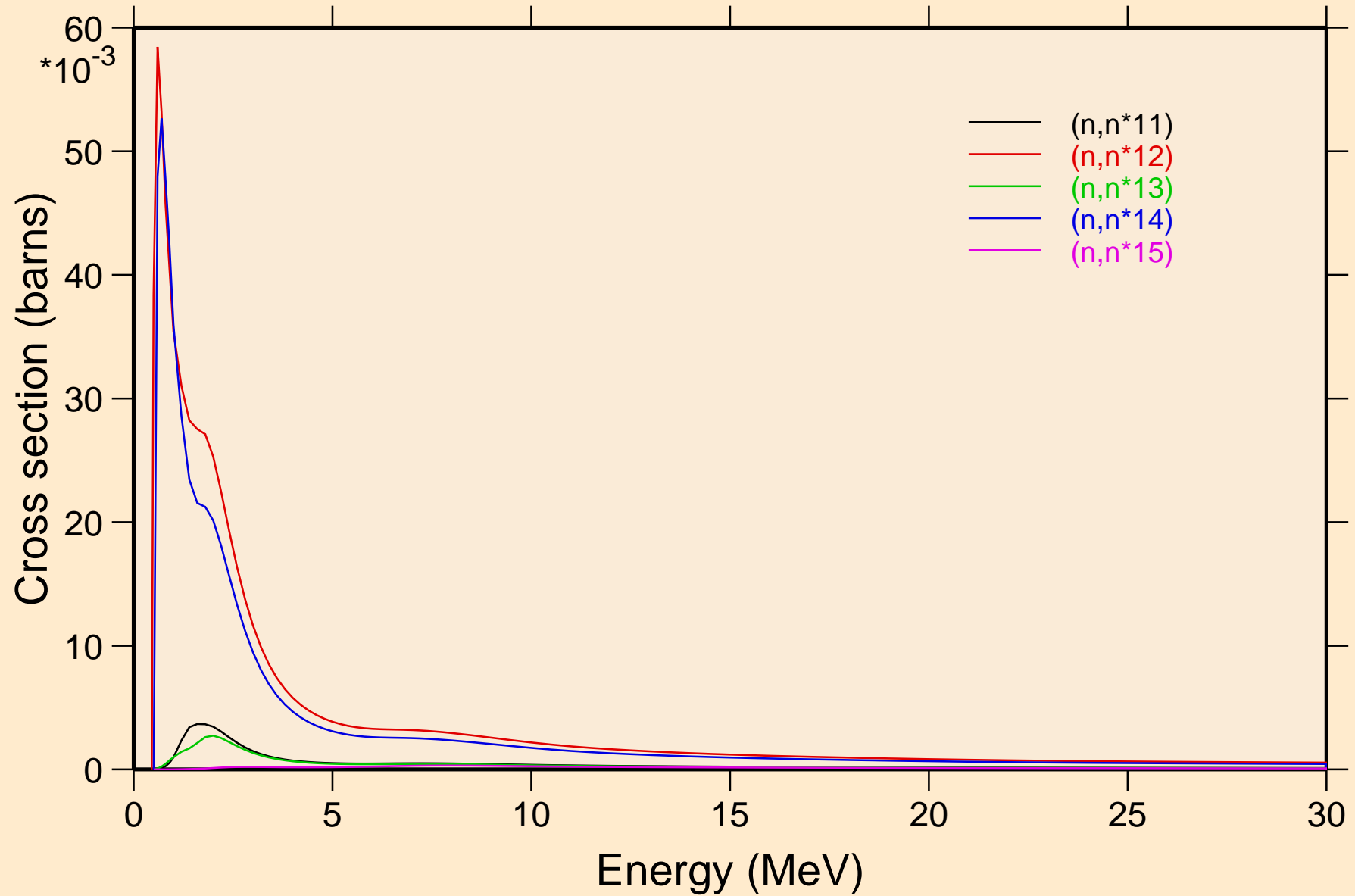
TH239 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Inelastic levels



TH239 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Inelastic levels



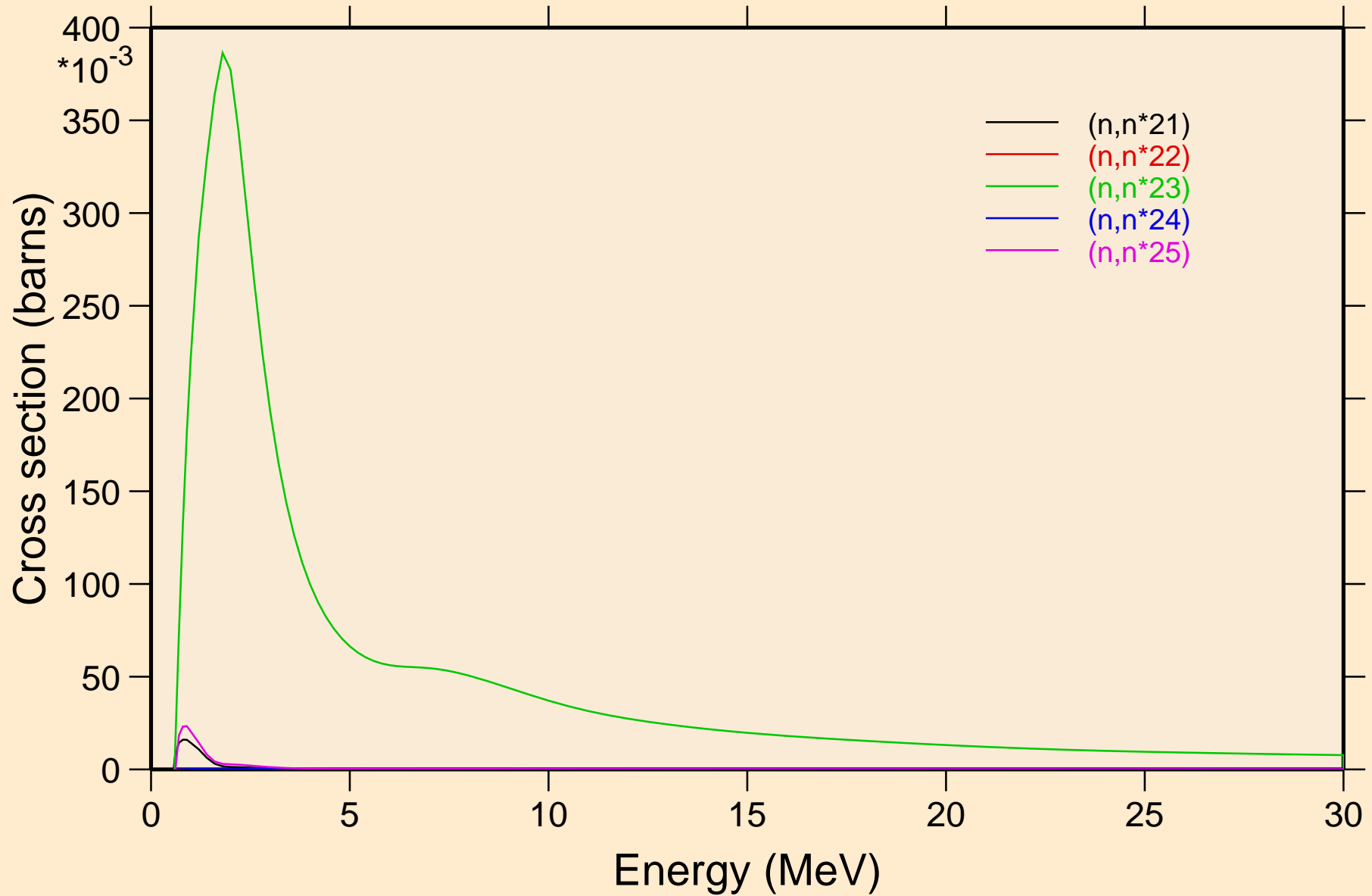
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Inelastic levels



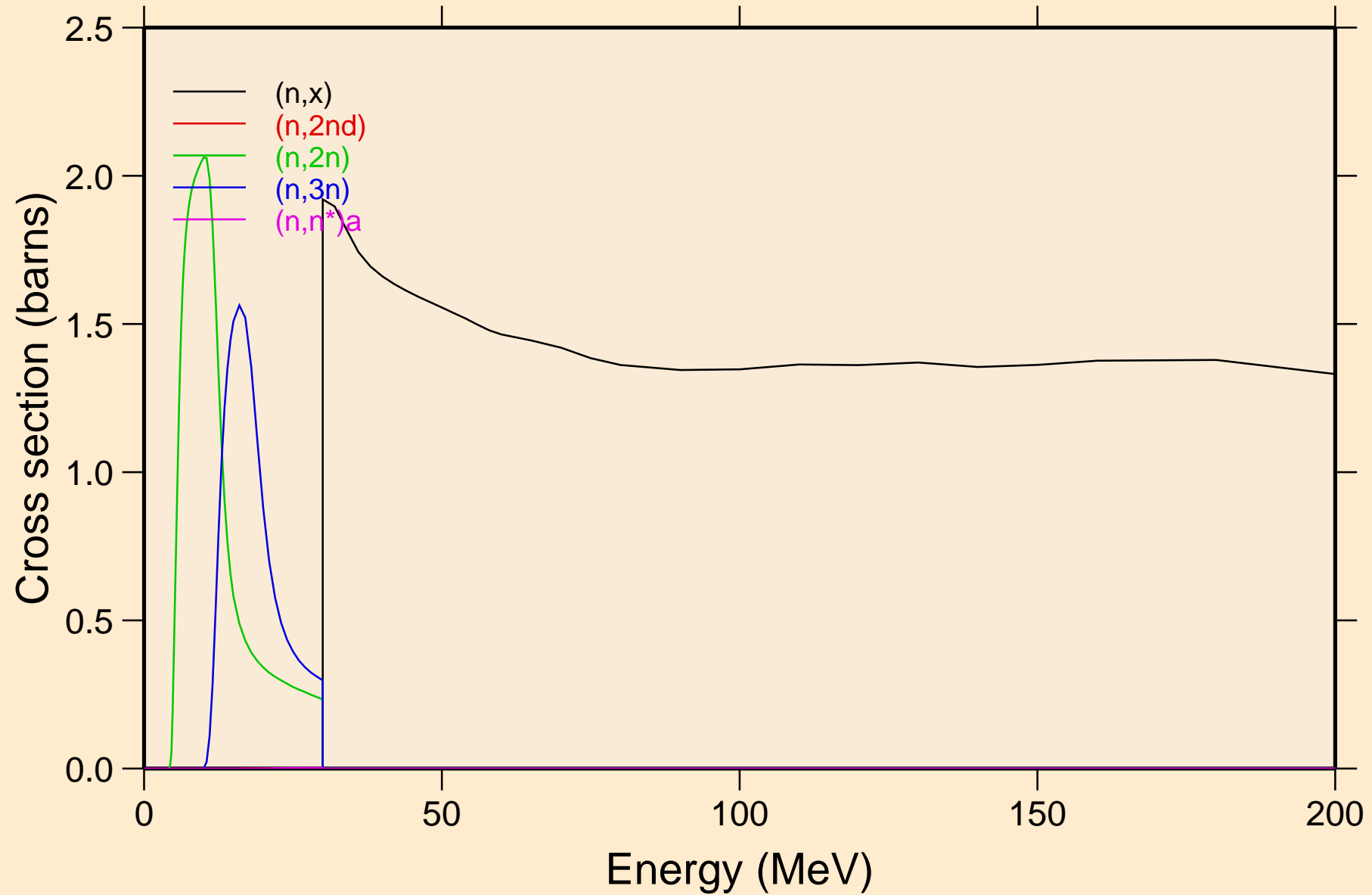
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Inelastic levels



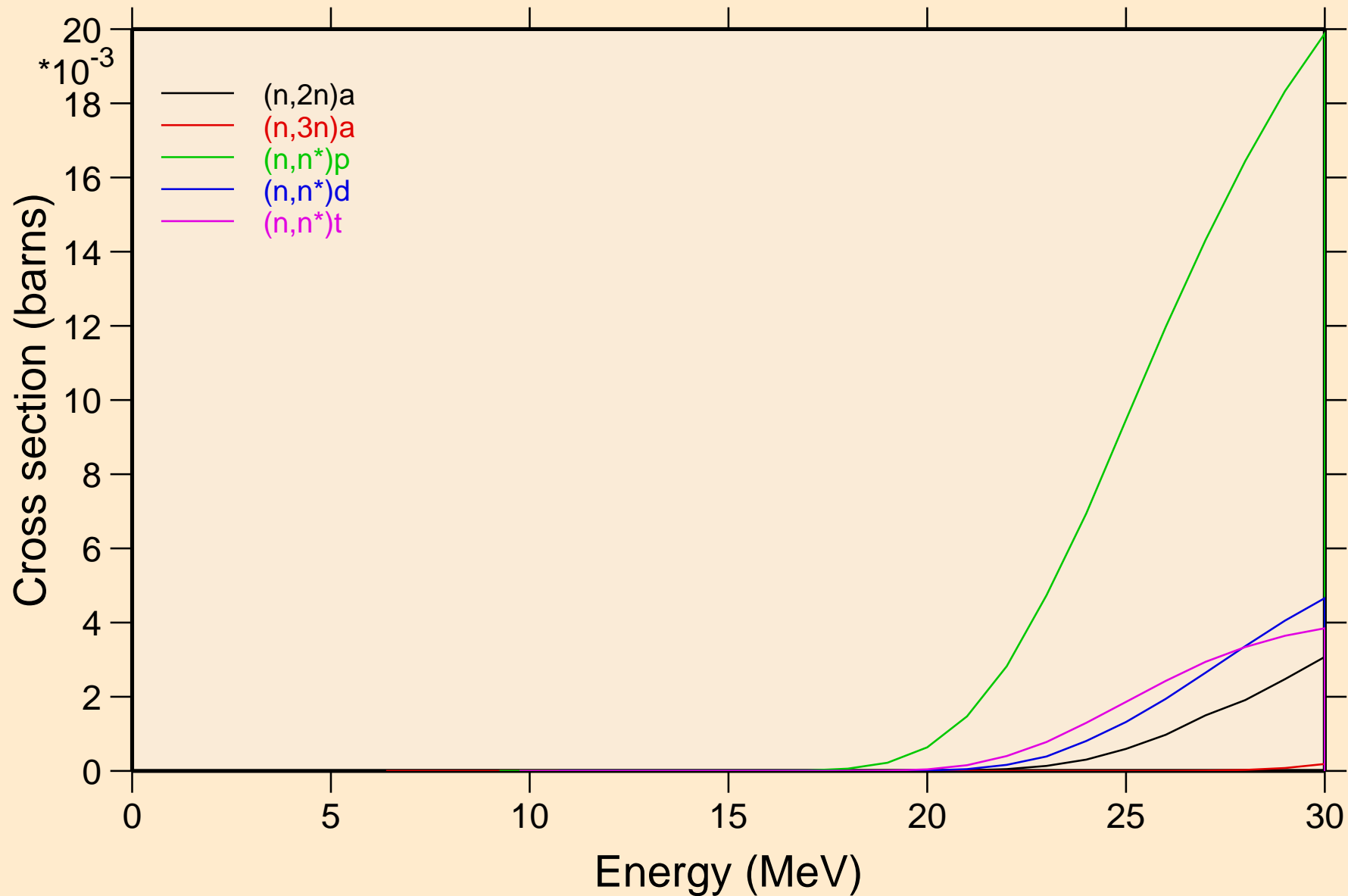
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Inelastic levels



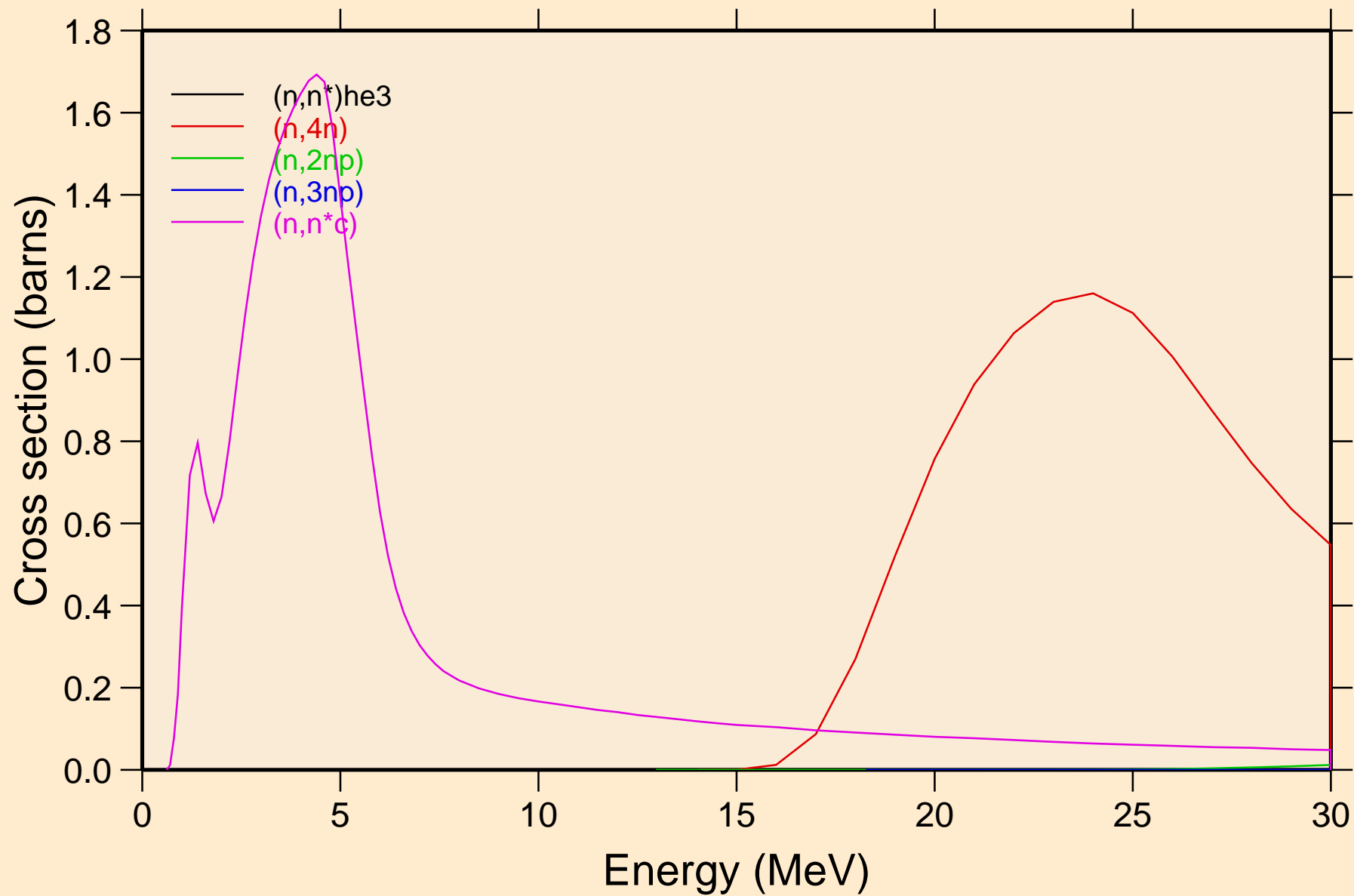
TH239 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Threshold reactions



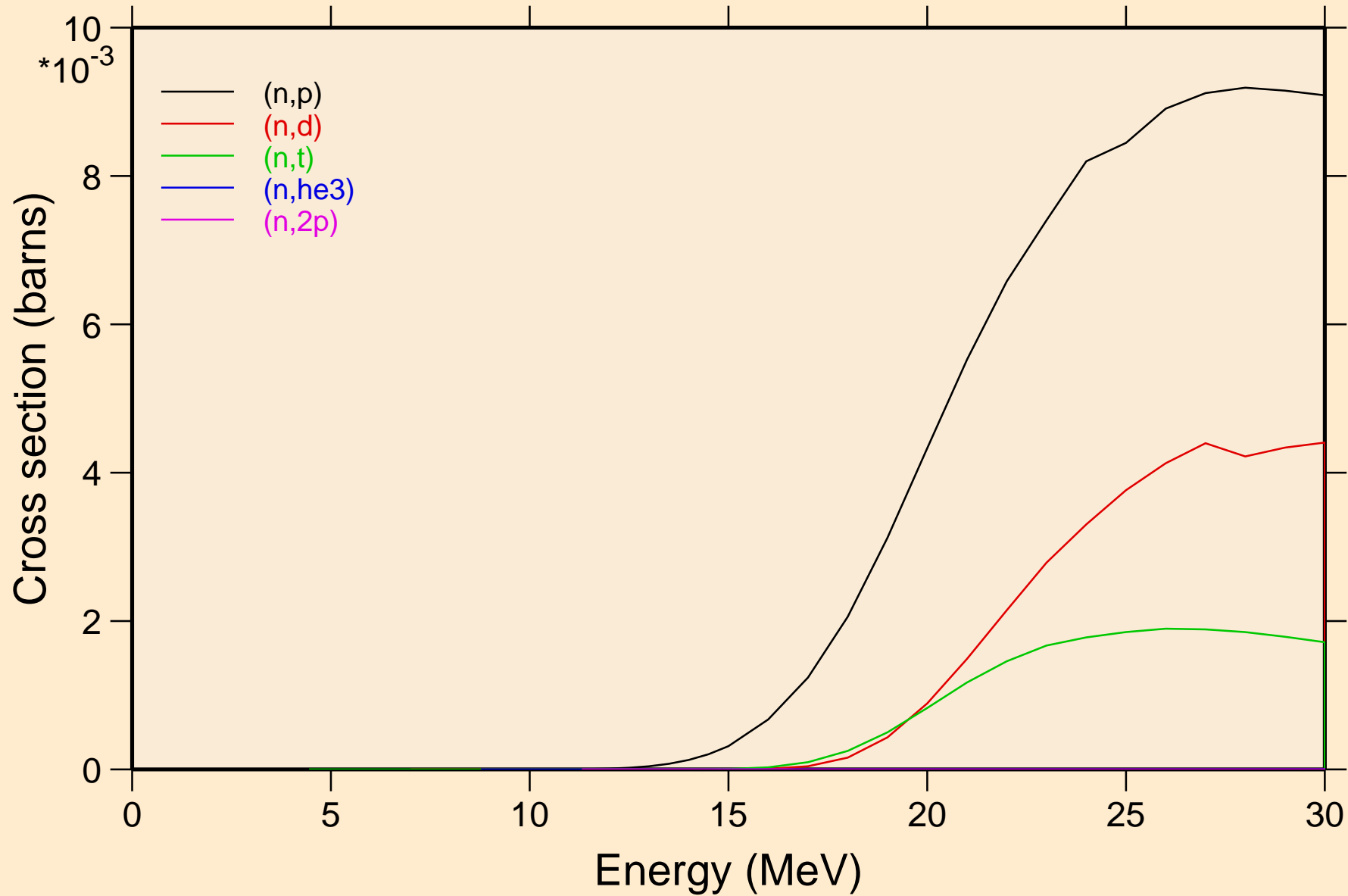
TH239 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Threshold reactions



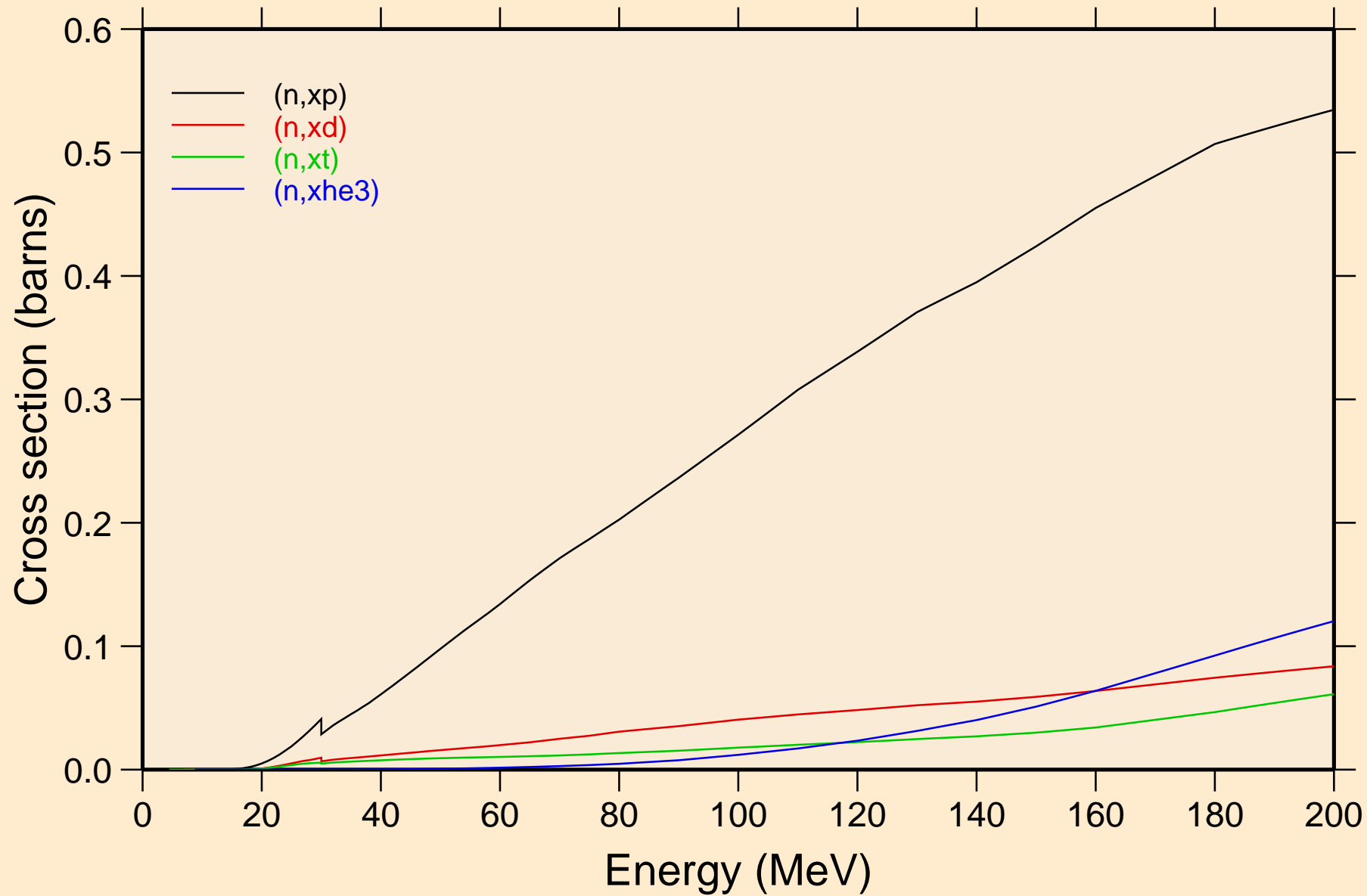
TH239 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Threshold reactions



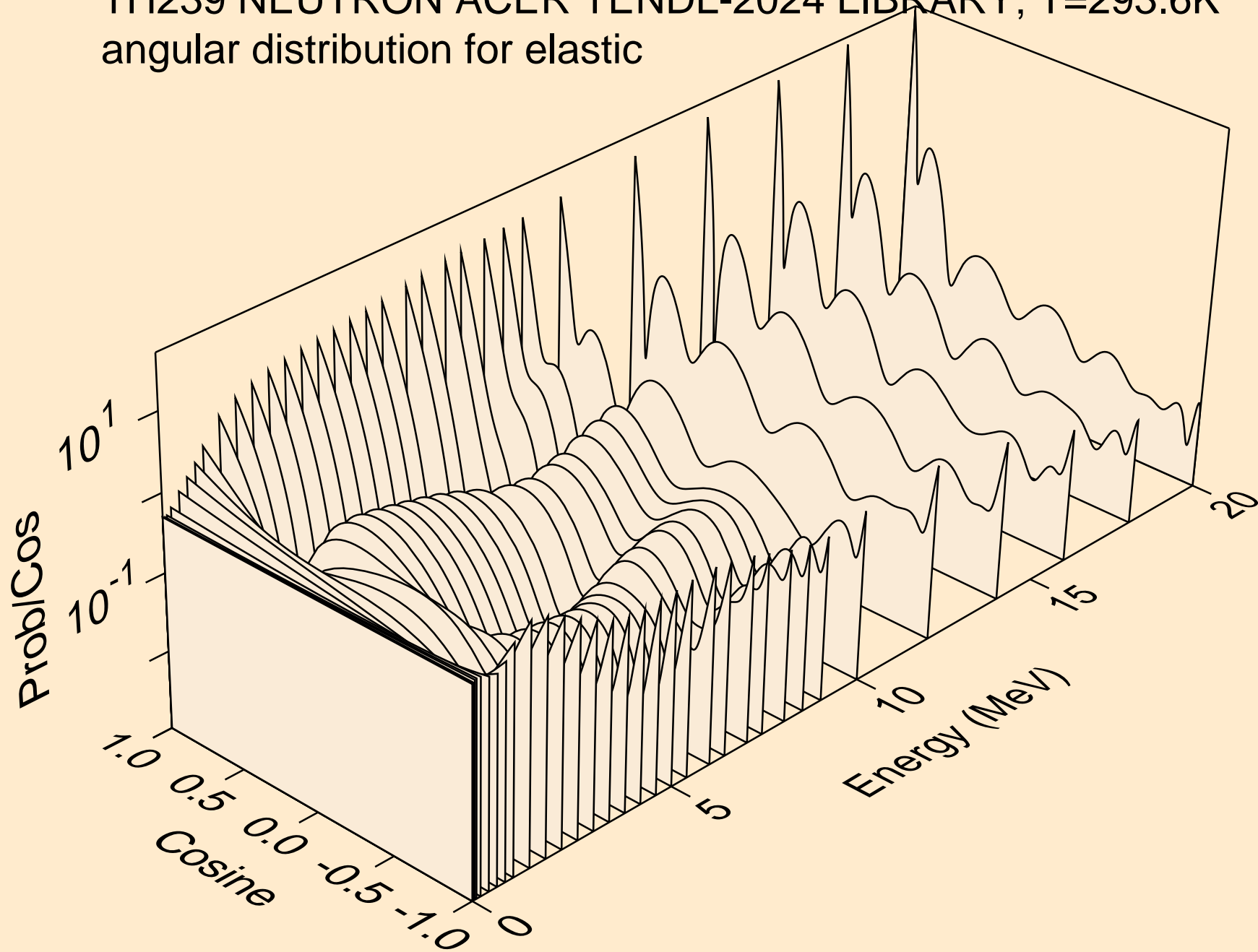
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Threshold reactions



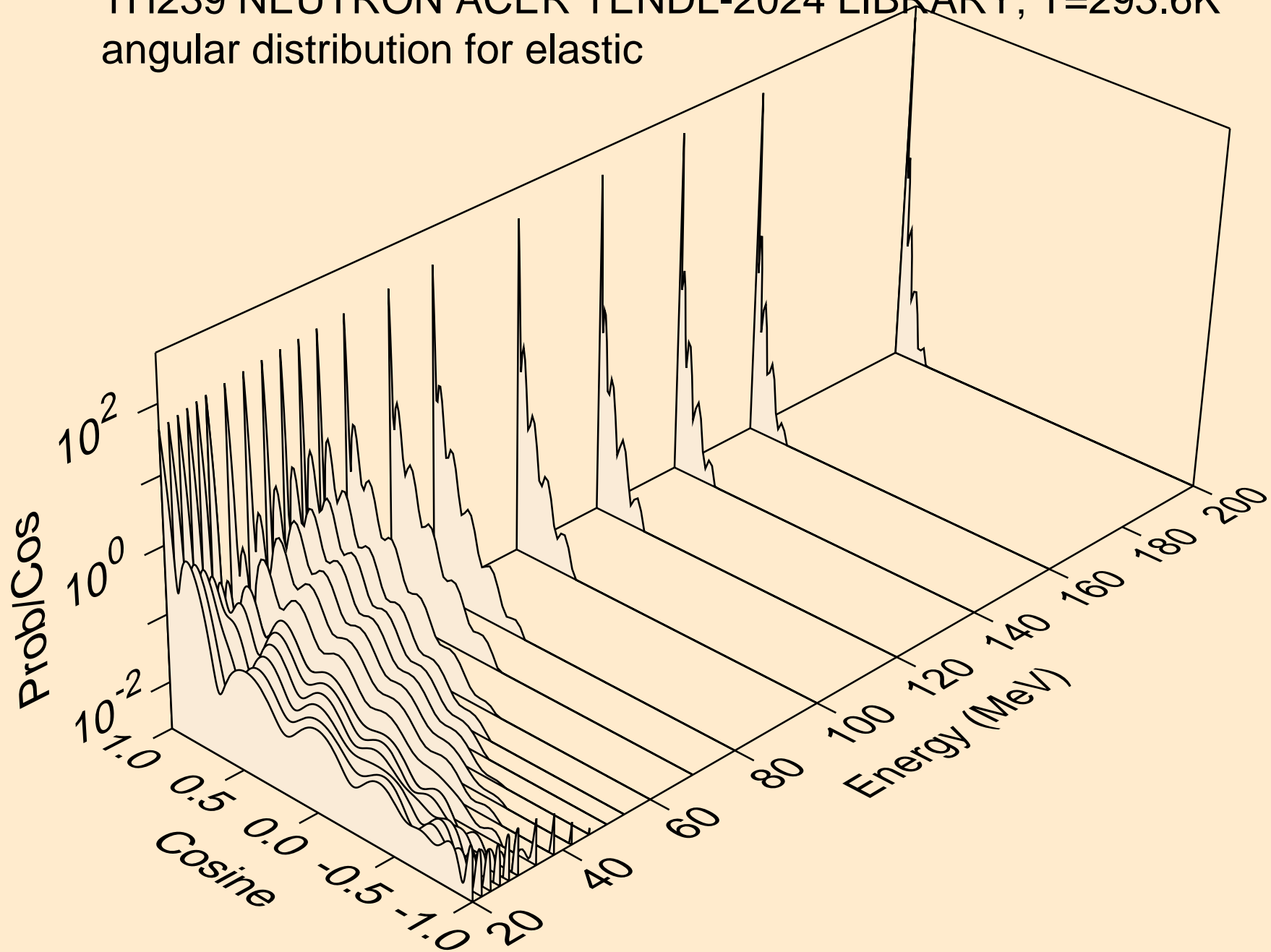
TH239 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Threshold reactions



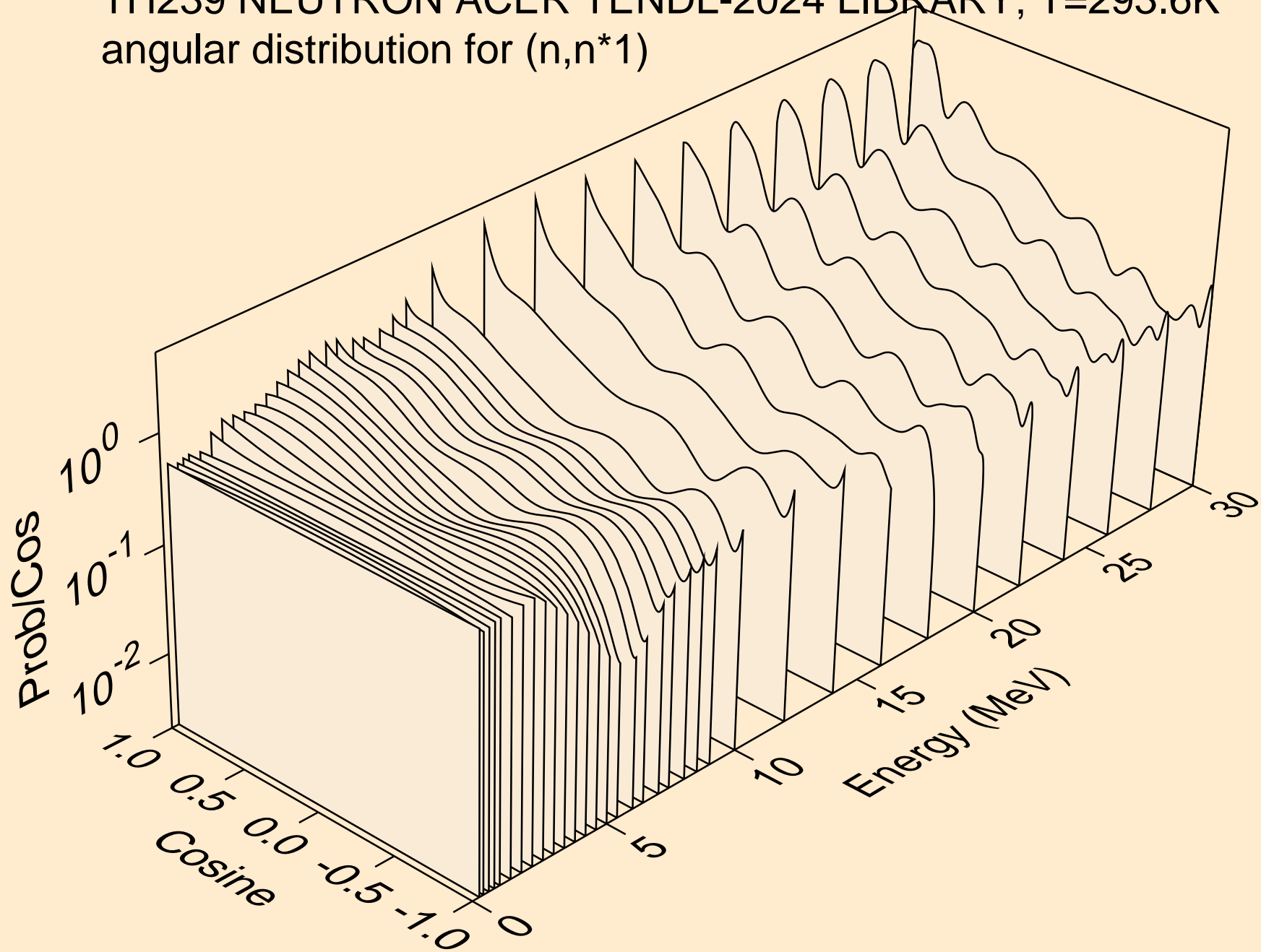
TH239 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
angular distribution for elastic



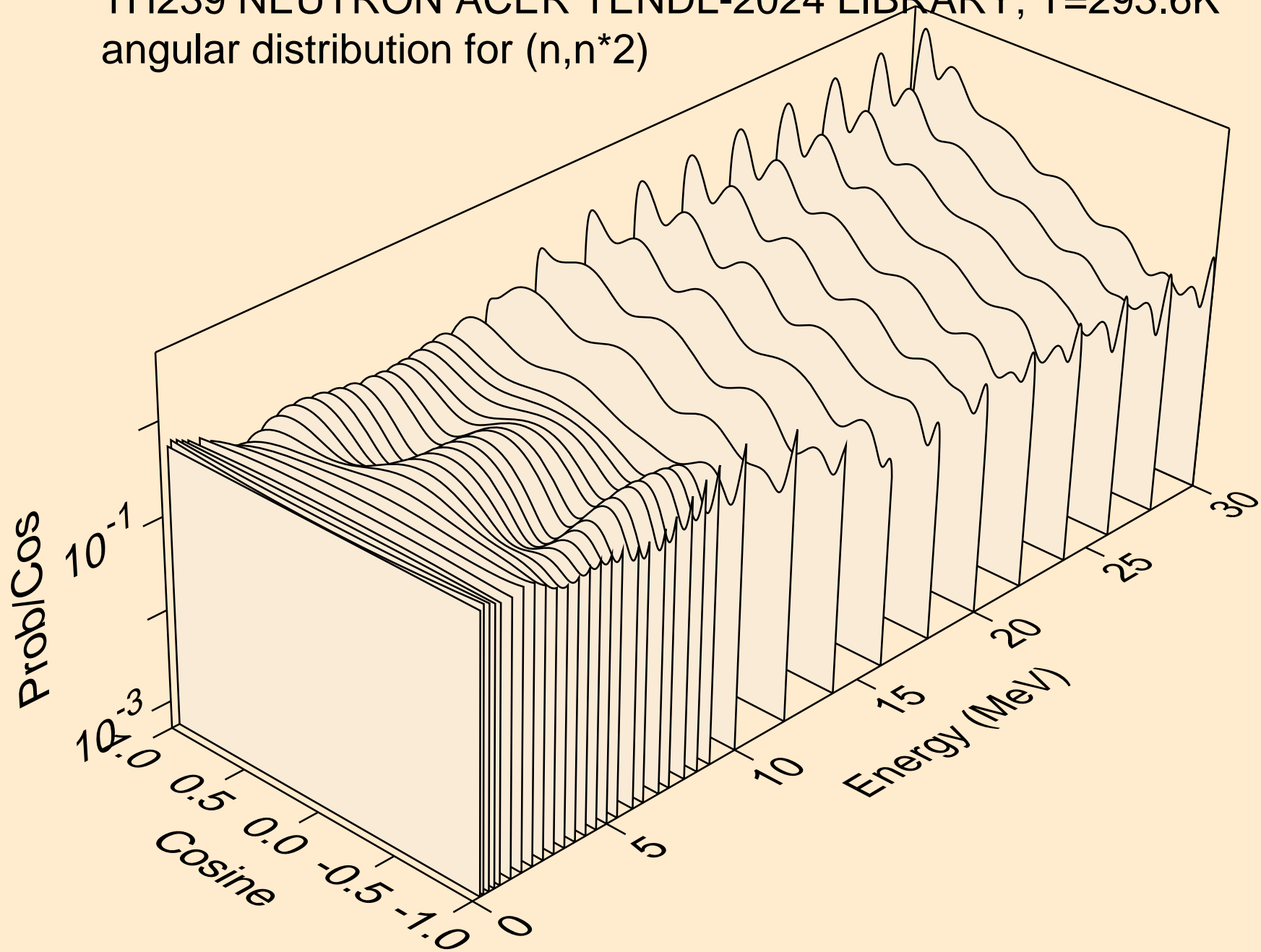
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angular distribution for elastic



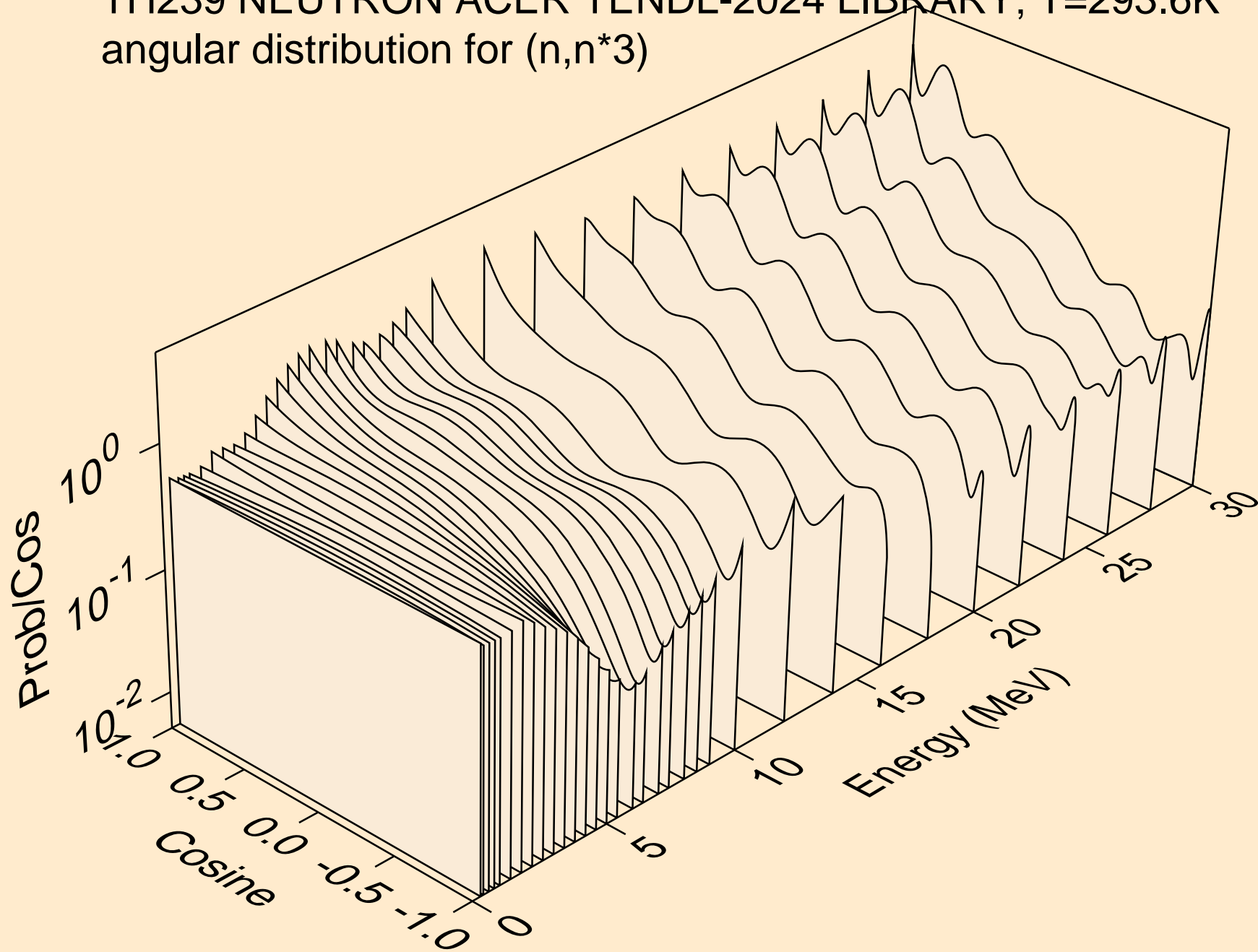
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angular distribution for (n,n\*1)



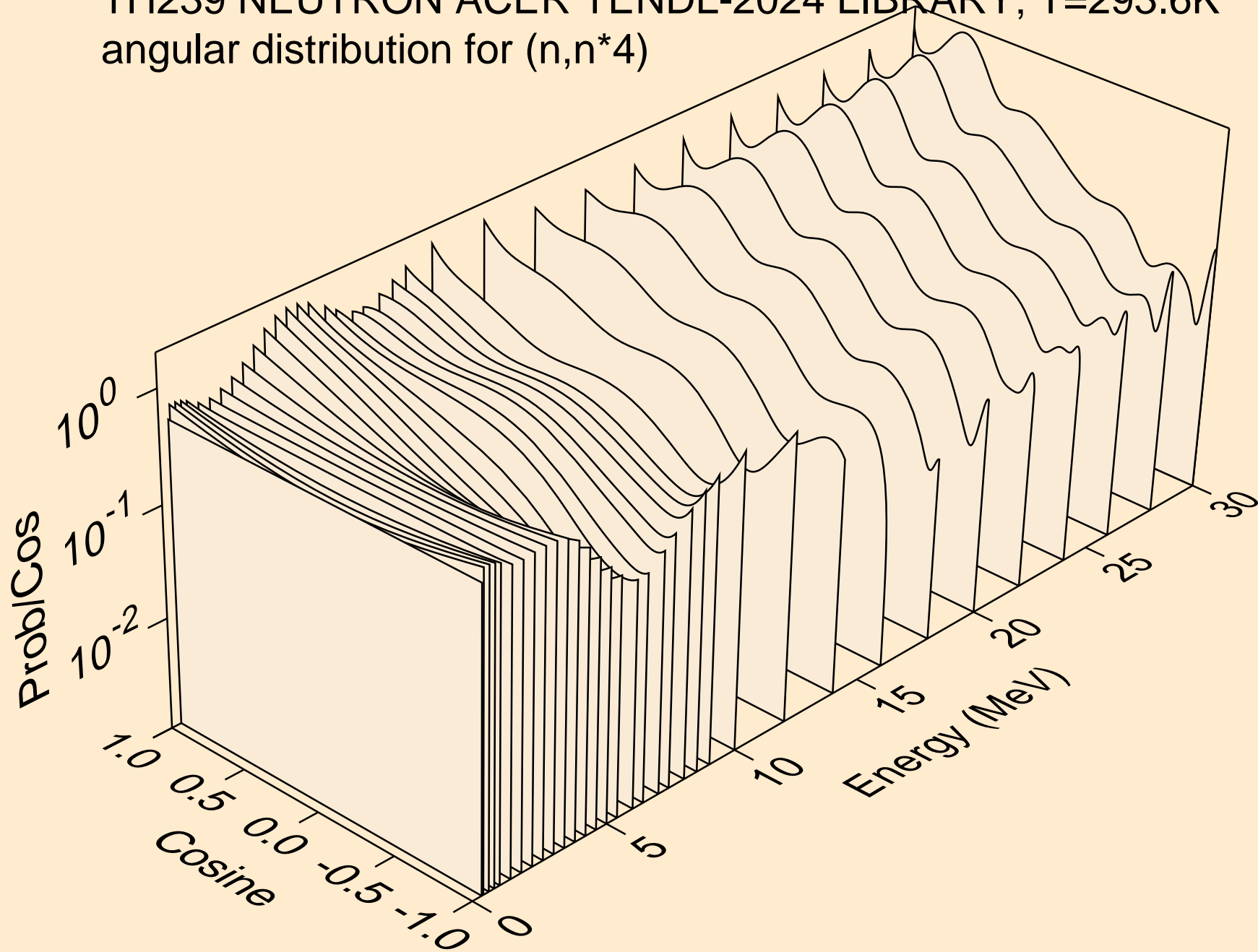
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angular distribution for (n,n\*2)



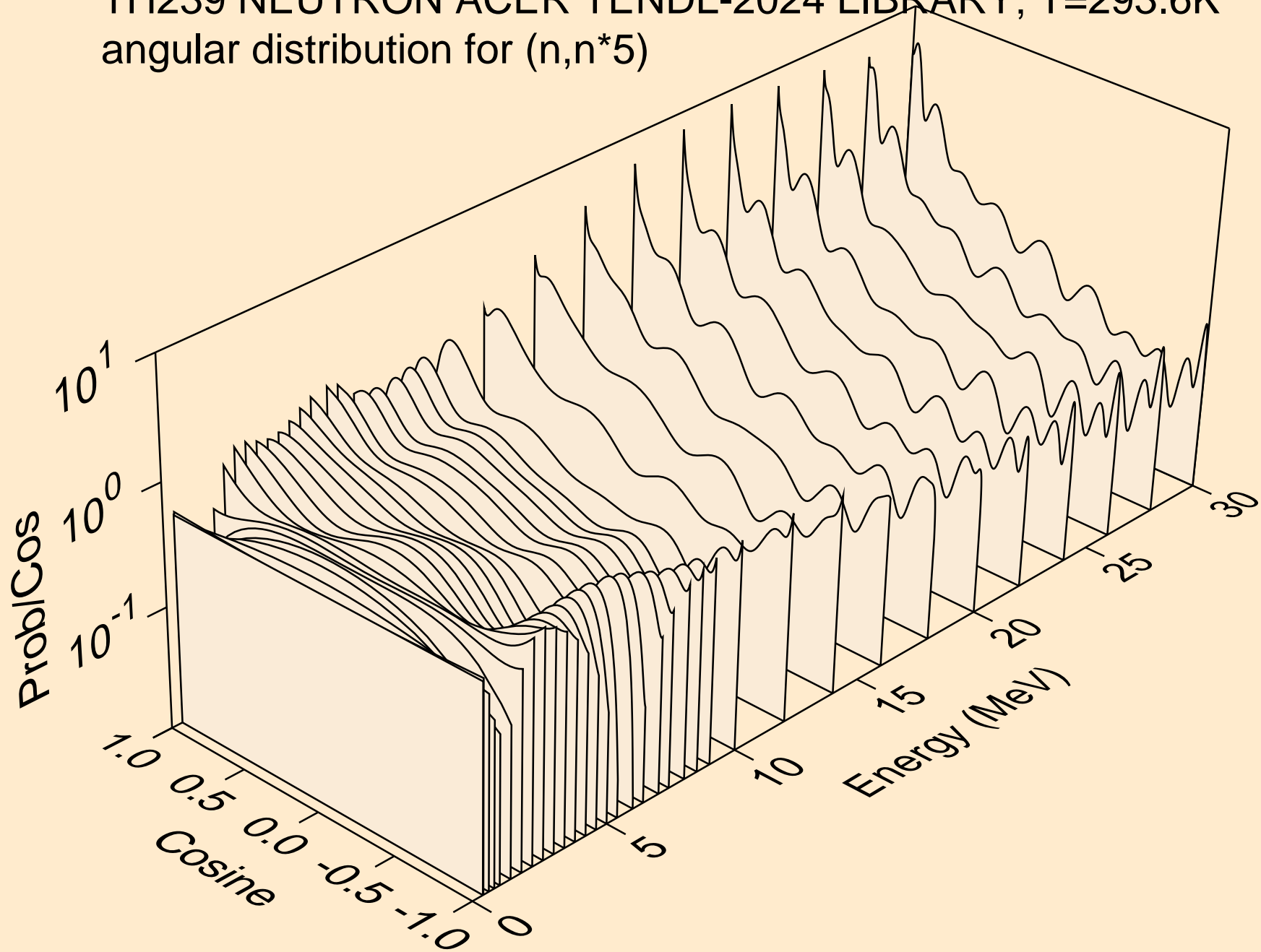
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angular distribution for (n,n\*3)



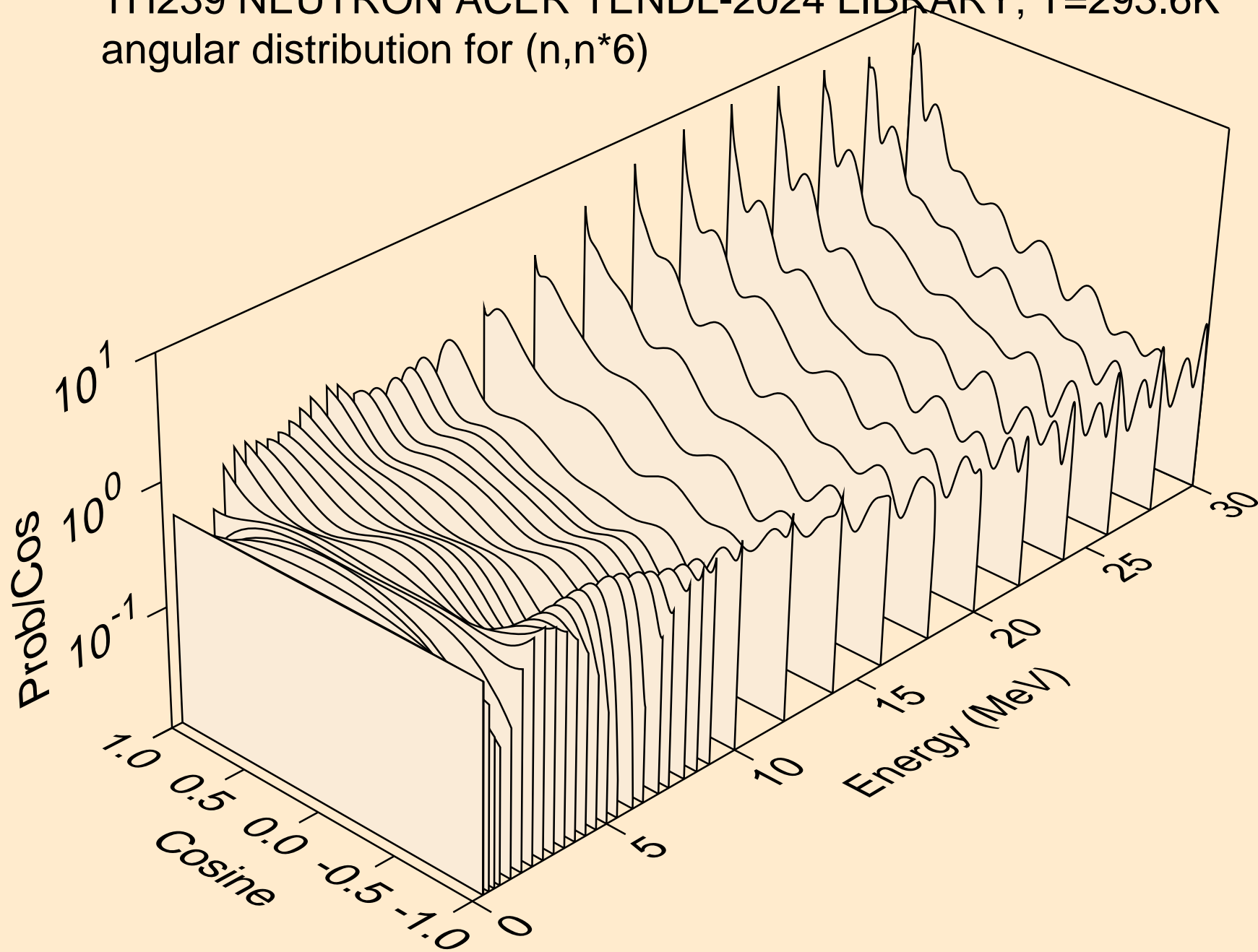
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angular distribution for (n,n\*4)



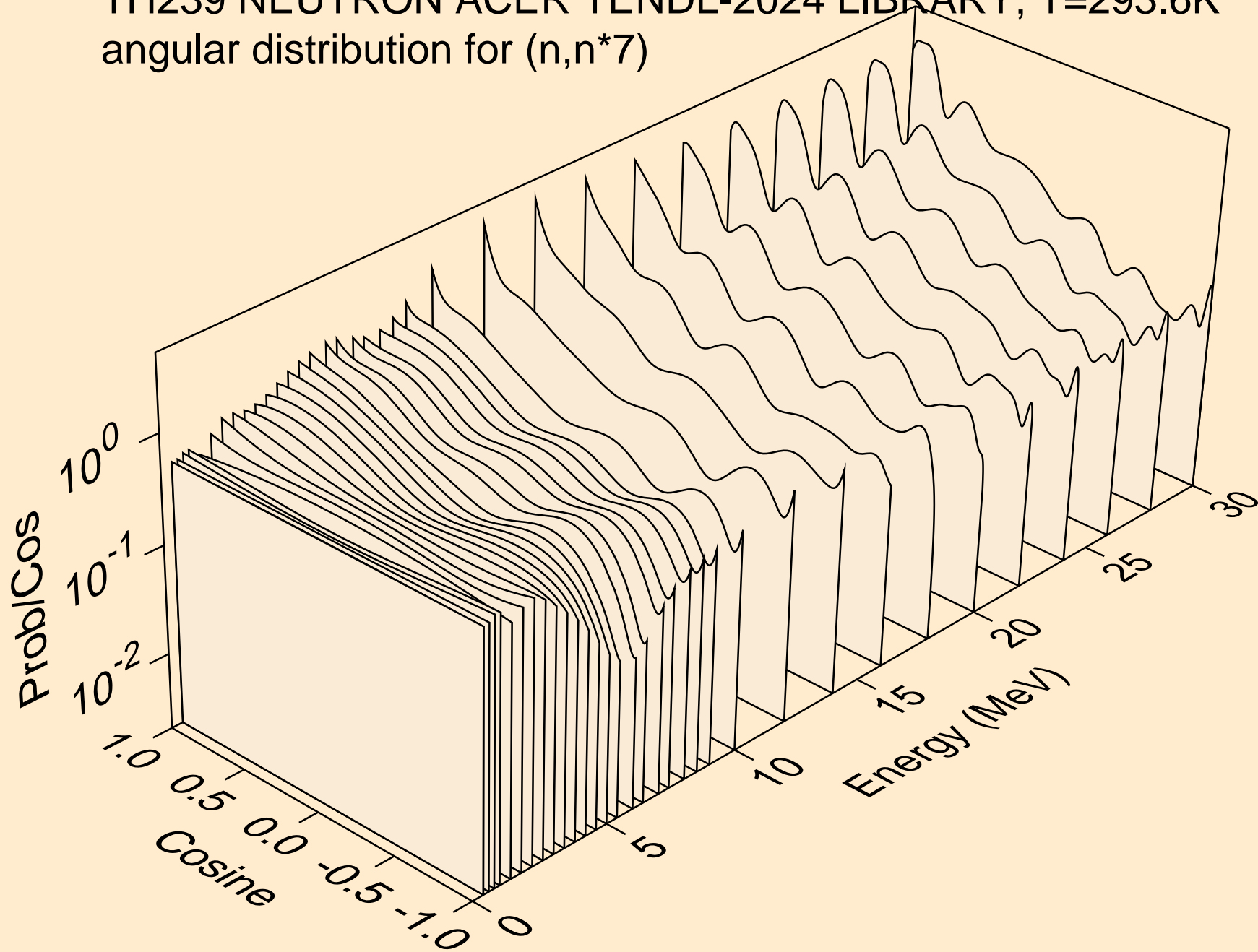
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angular distribution for (n,n\*5)



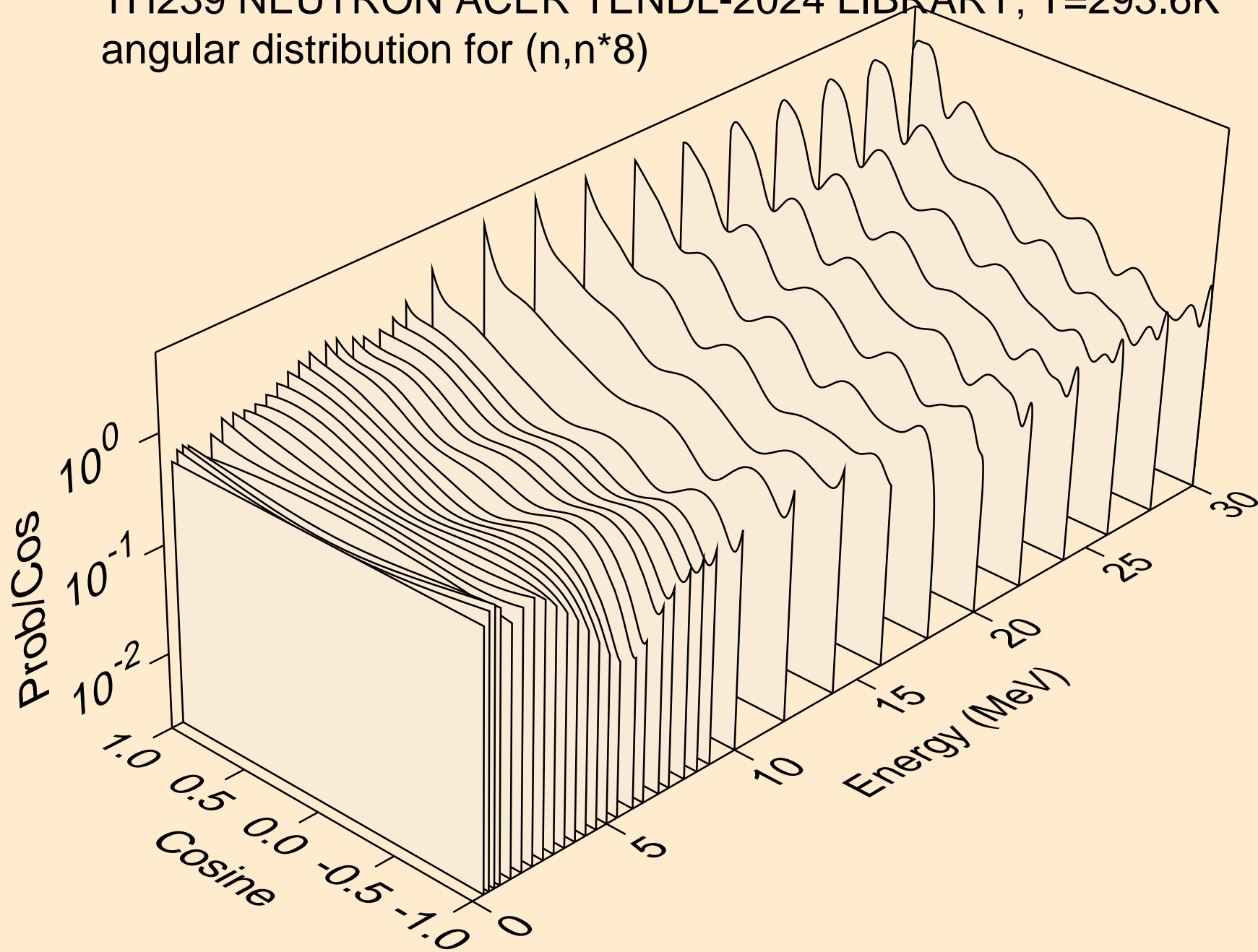
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angular distribution for (n,n\*6)



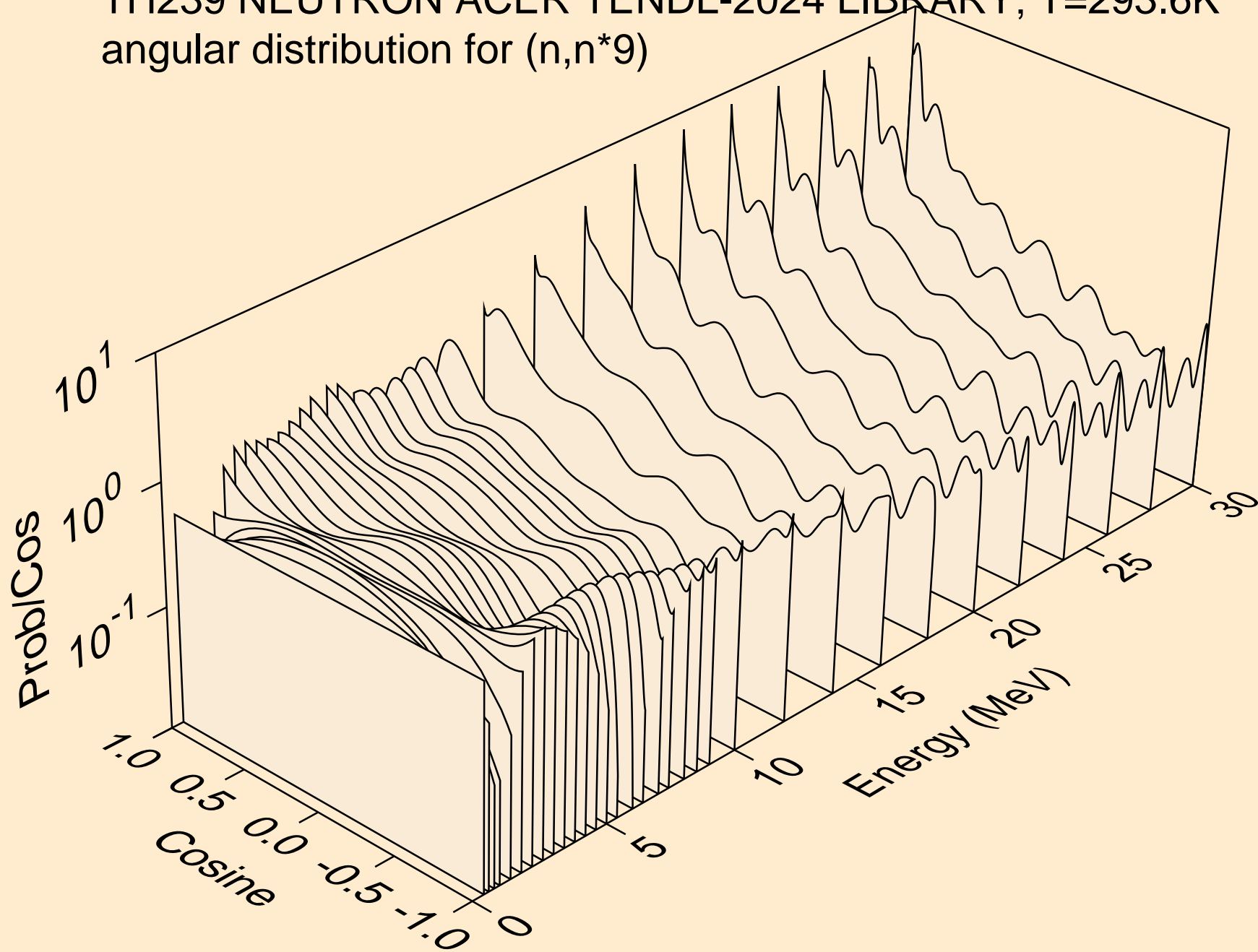
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angular distribution for (n,n\*7)



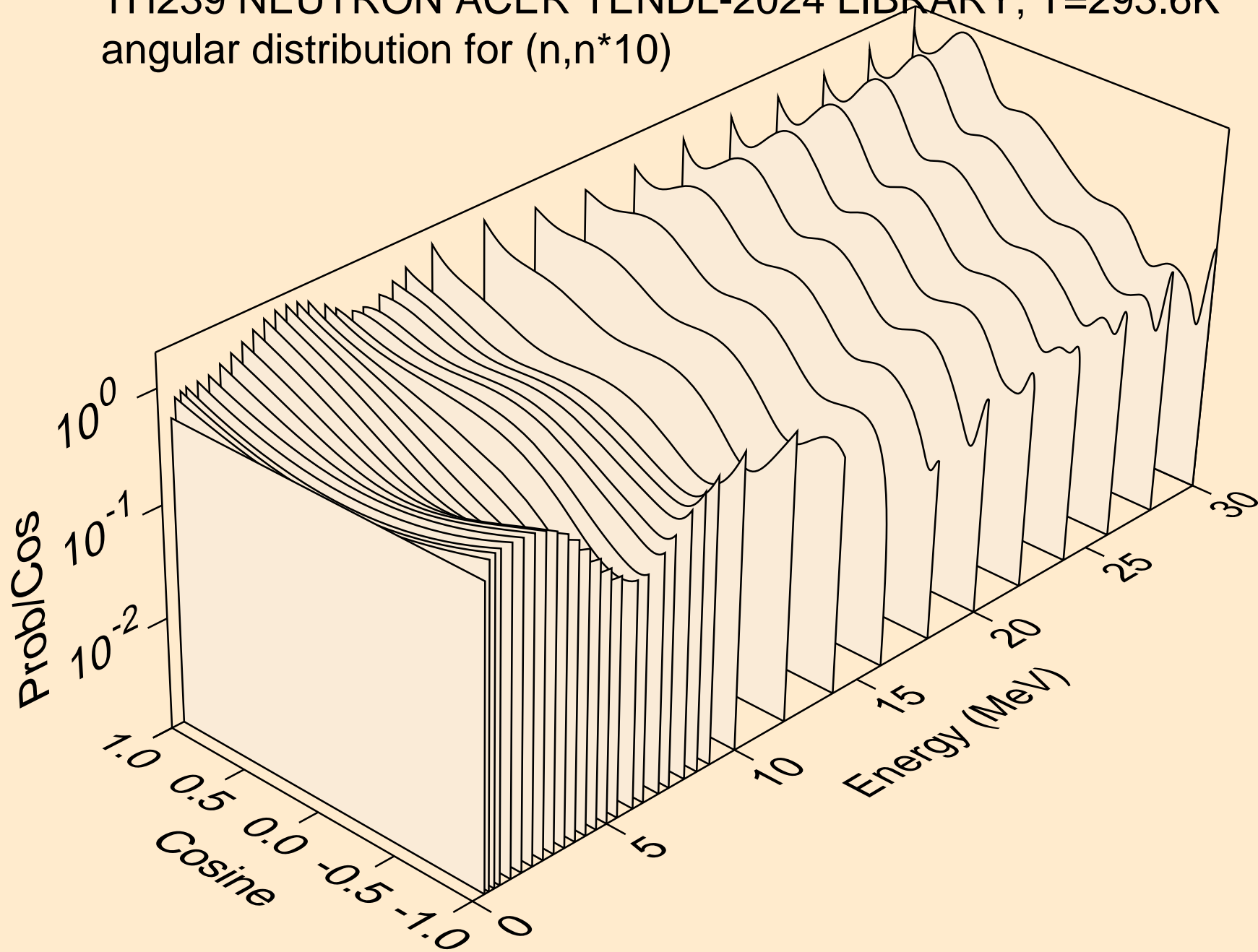
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angular distribution for (n,n\*8)



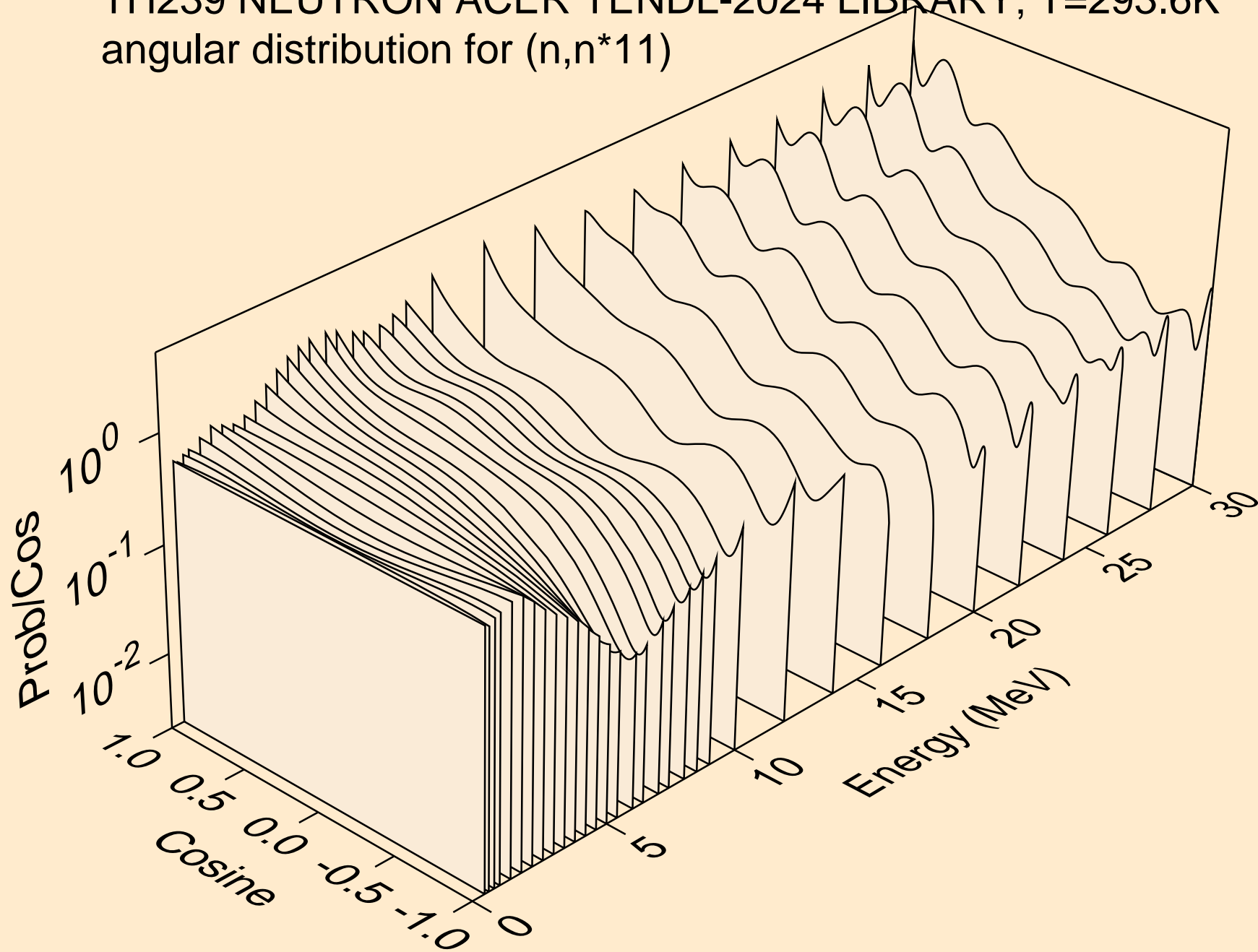
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angular distribution for (n,n\*9)



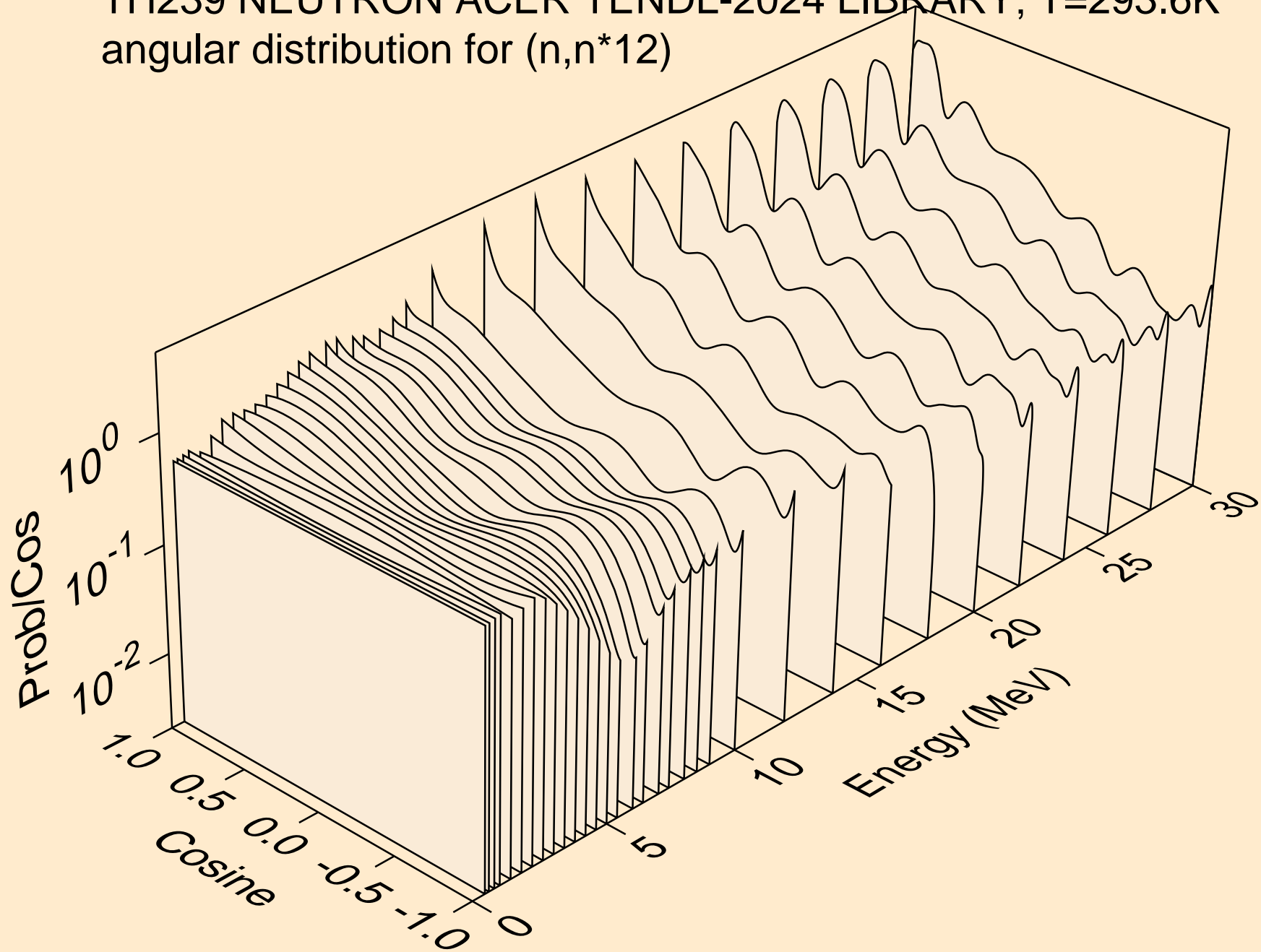
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angular distribution for (n,n\*10)



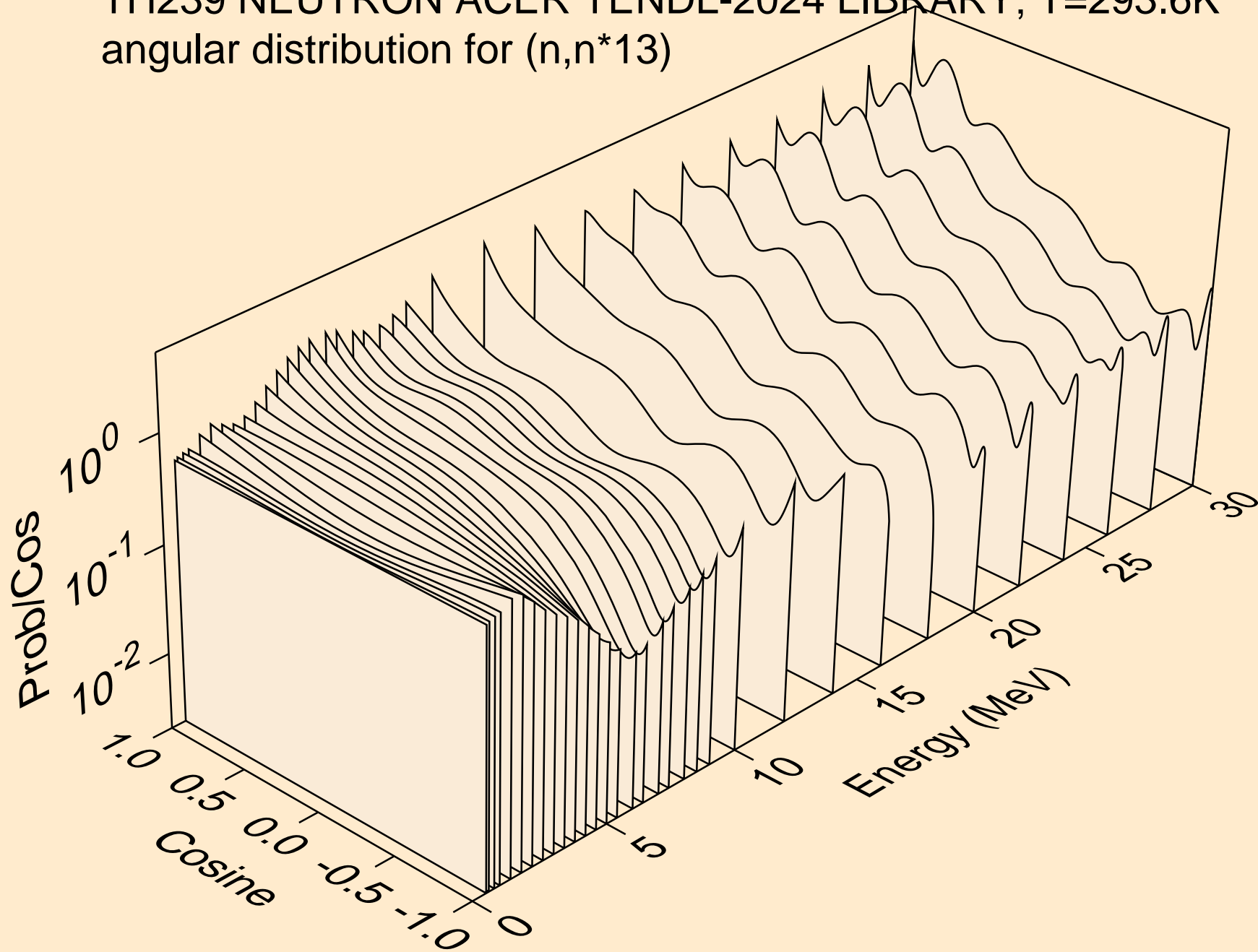
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angular distribution for (n,n\*11)



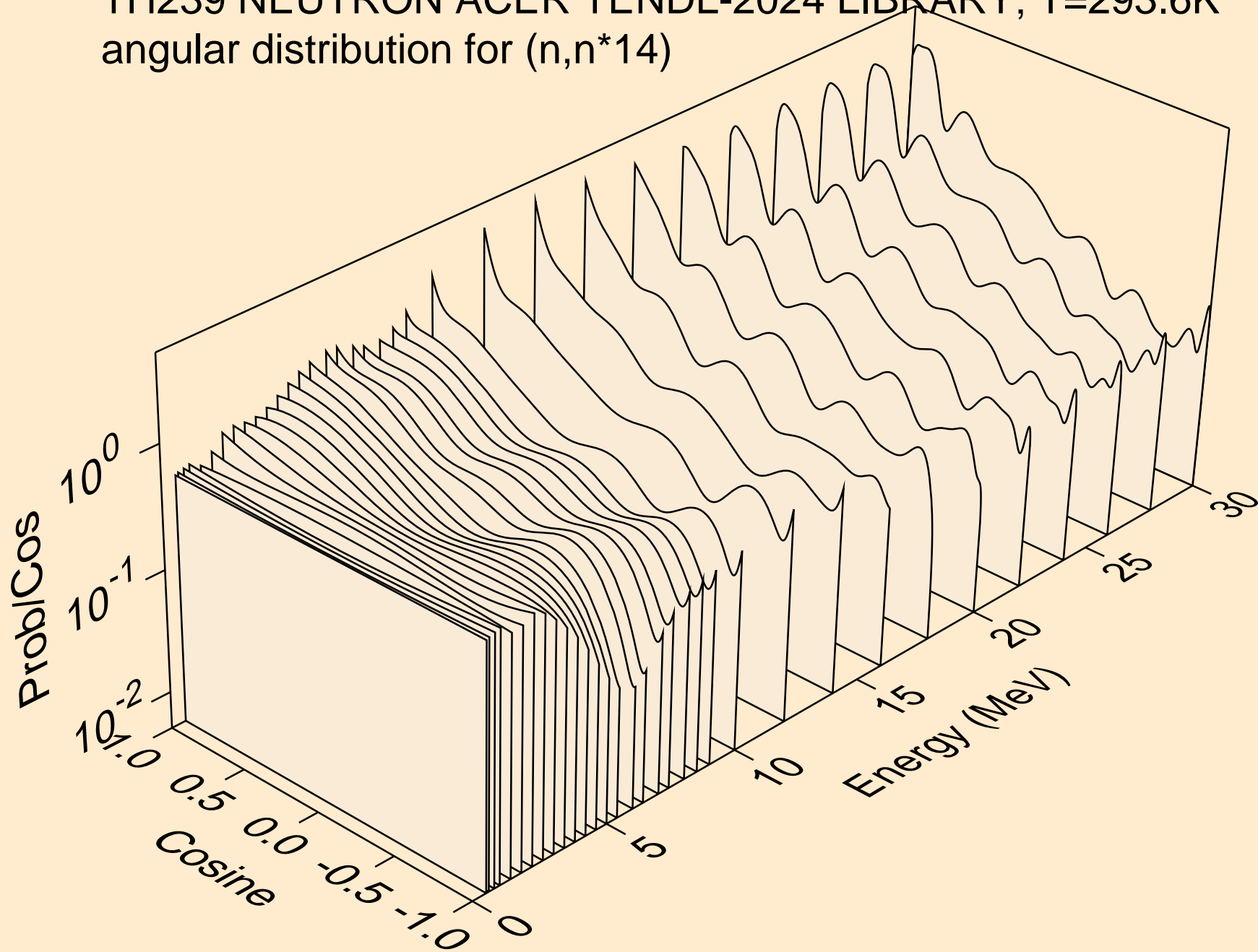
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angular distribution for (n,n\*12)



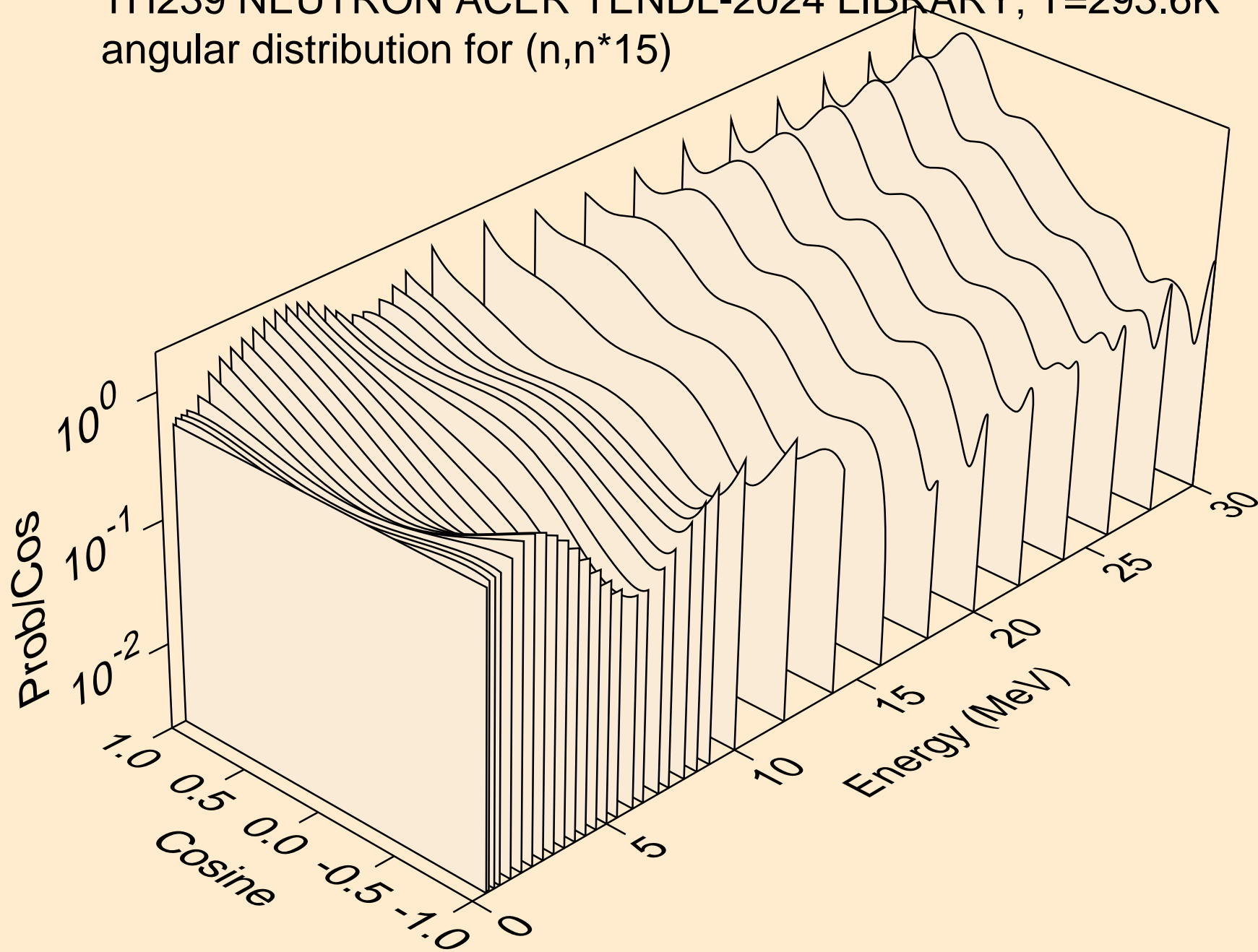
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angular distribution for (n,n\*13)



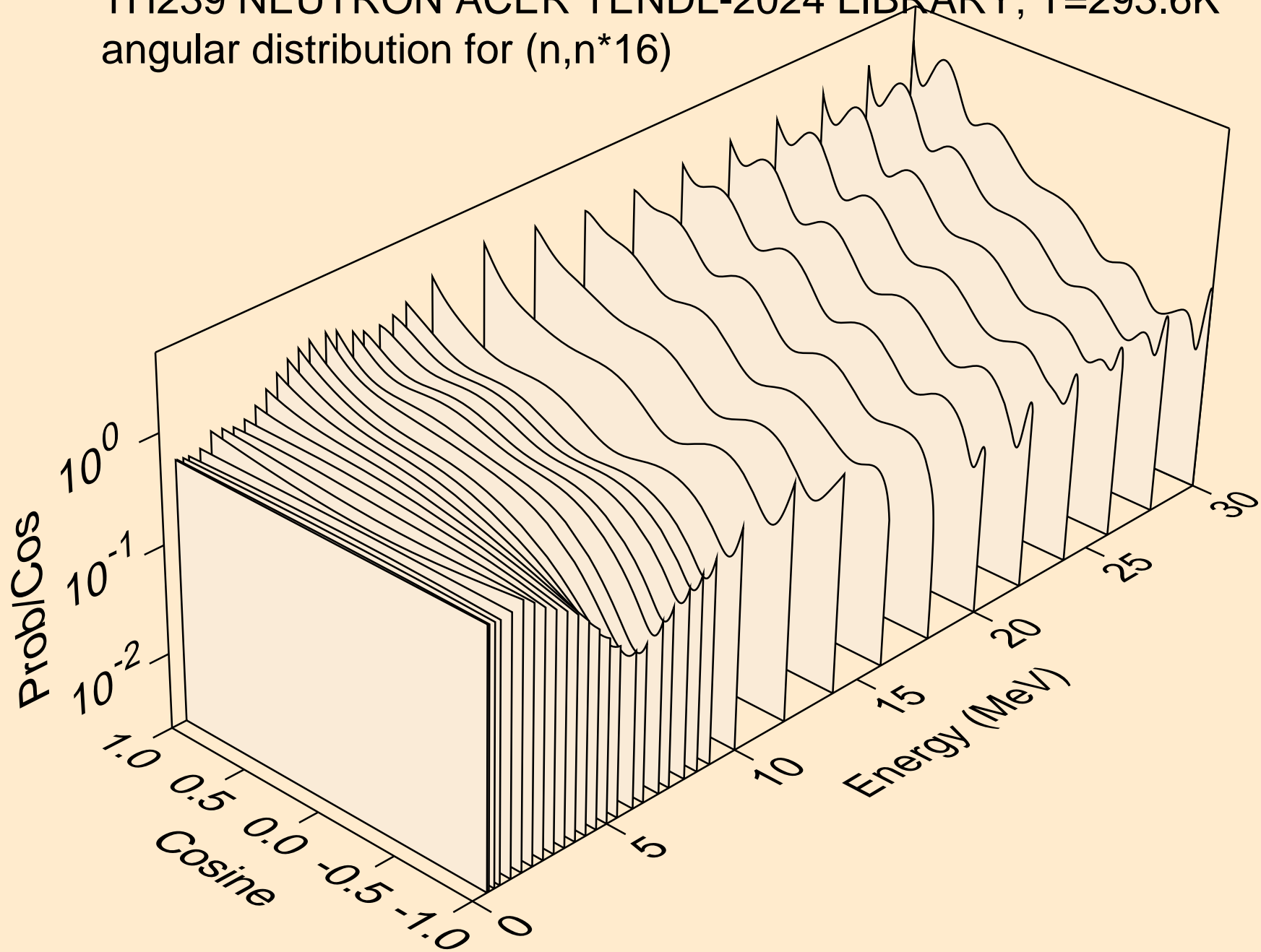
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angular distribution for (n,n\*14)



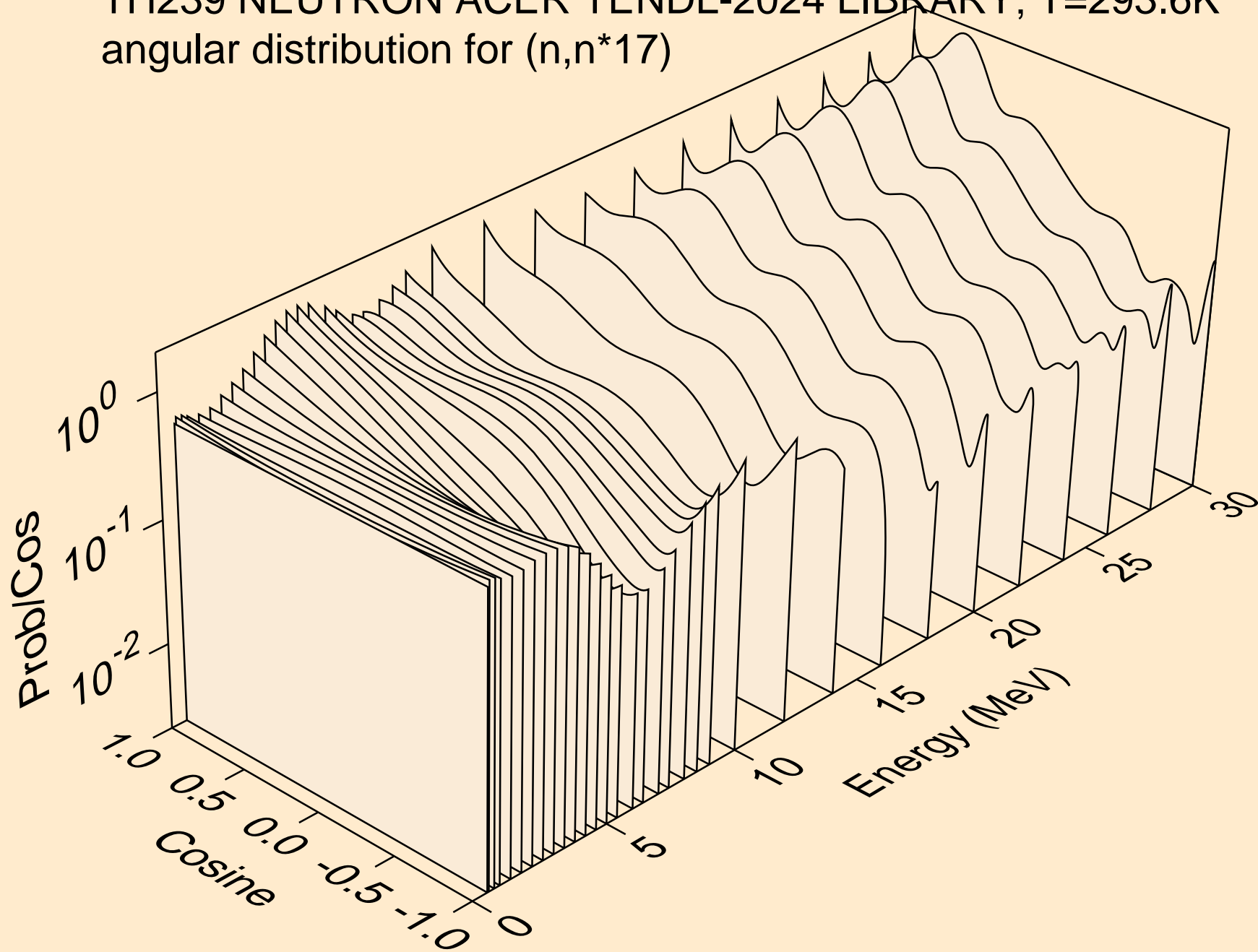
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angular distribution for (n,n\*15)



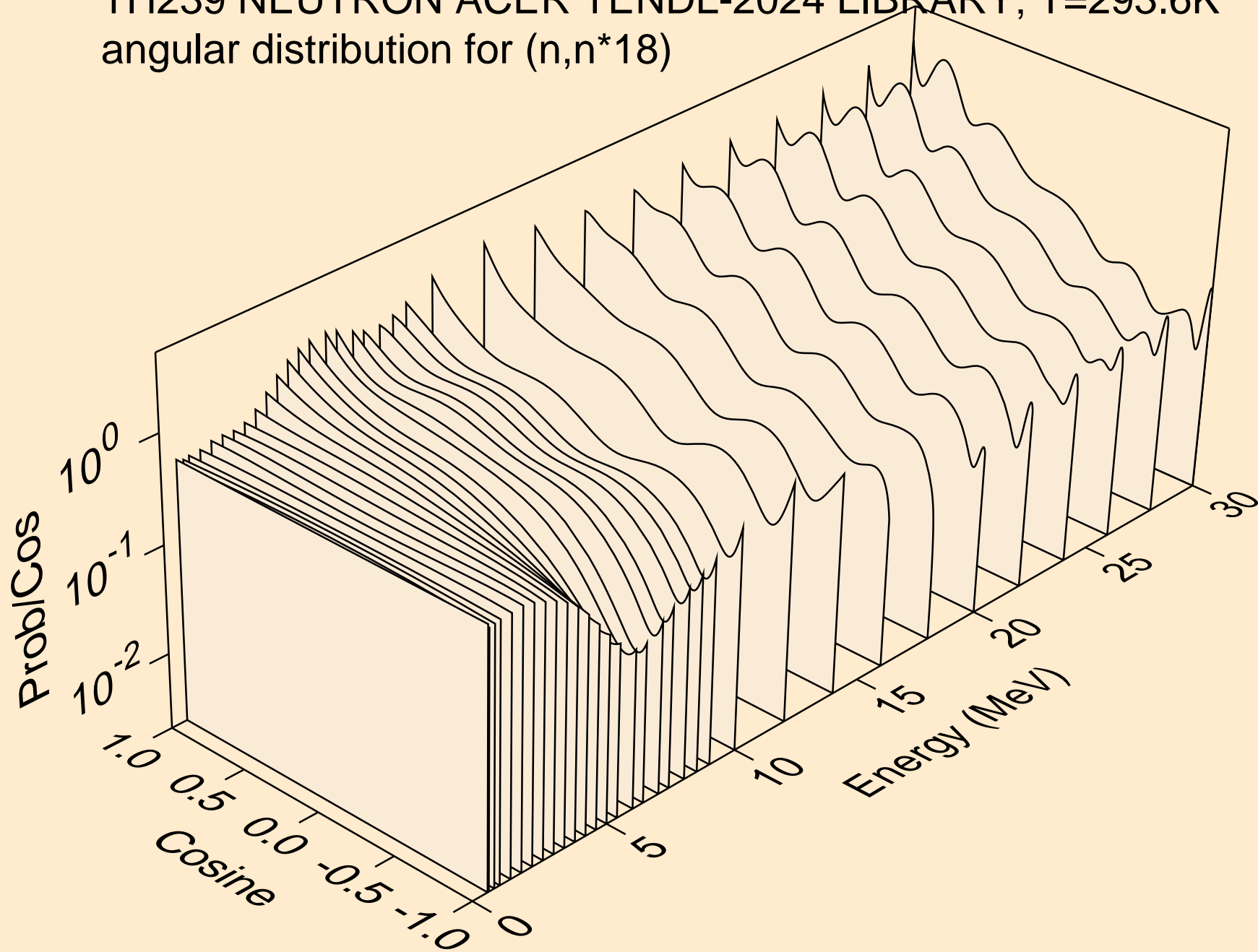
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angular distribution for (n,n\*16)



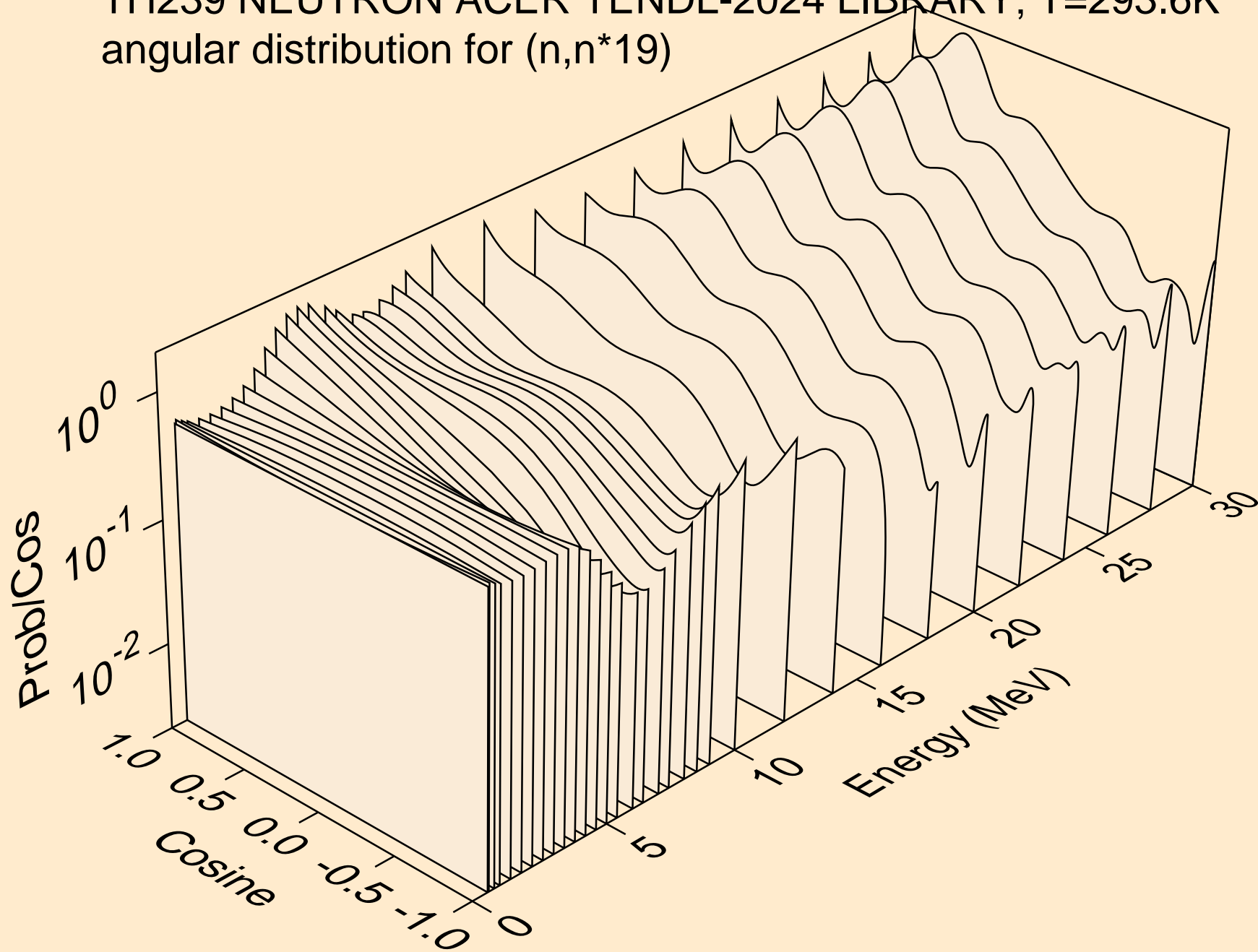
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angular distribution for (n,n\*17)



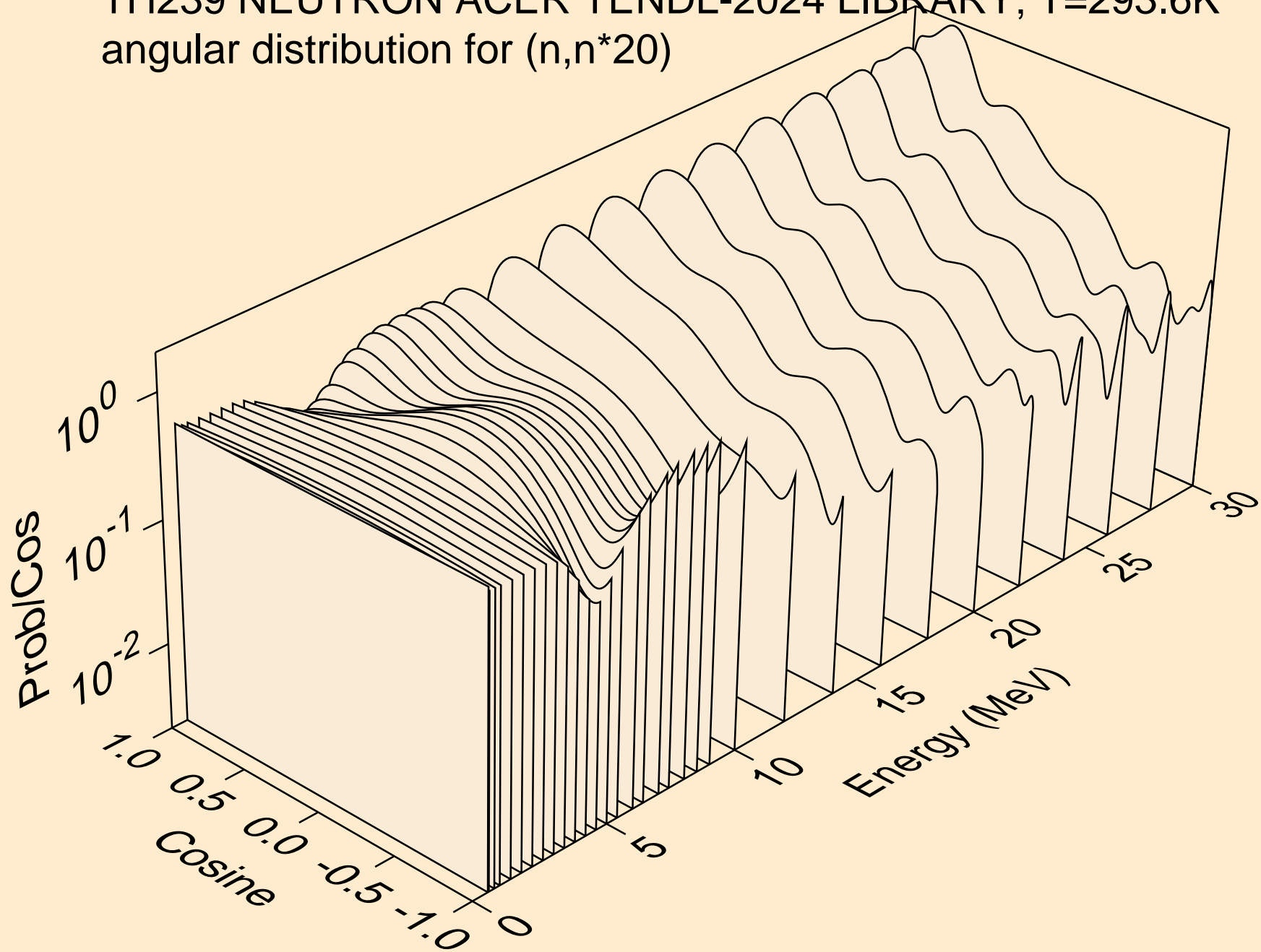
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angular distribution for (n,n\*18)



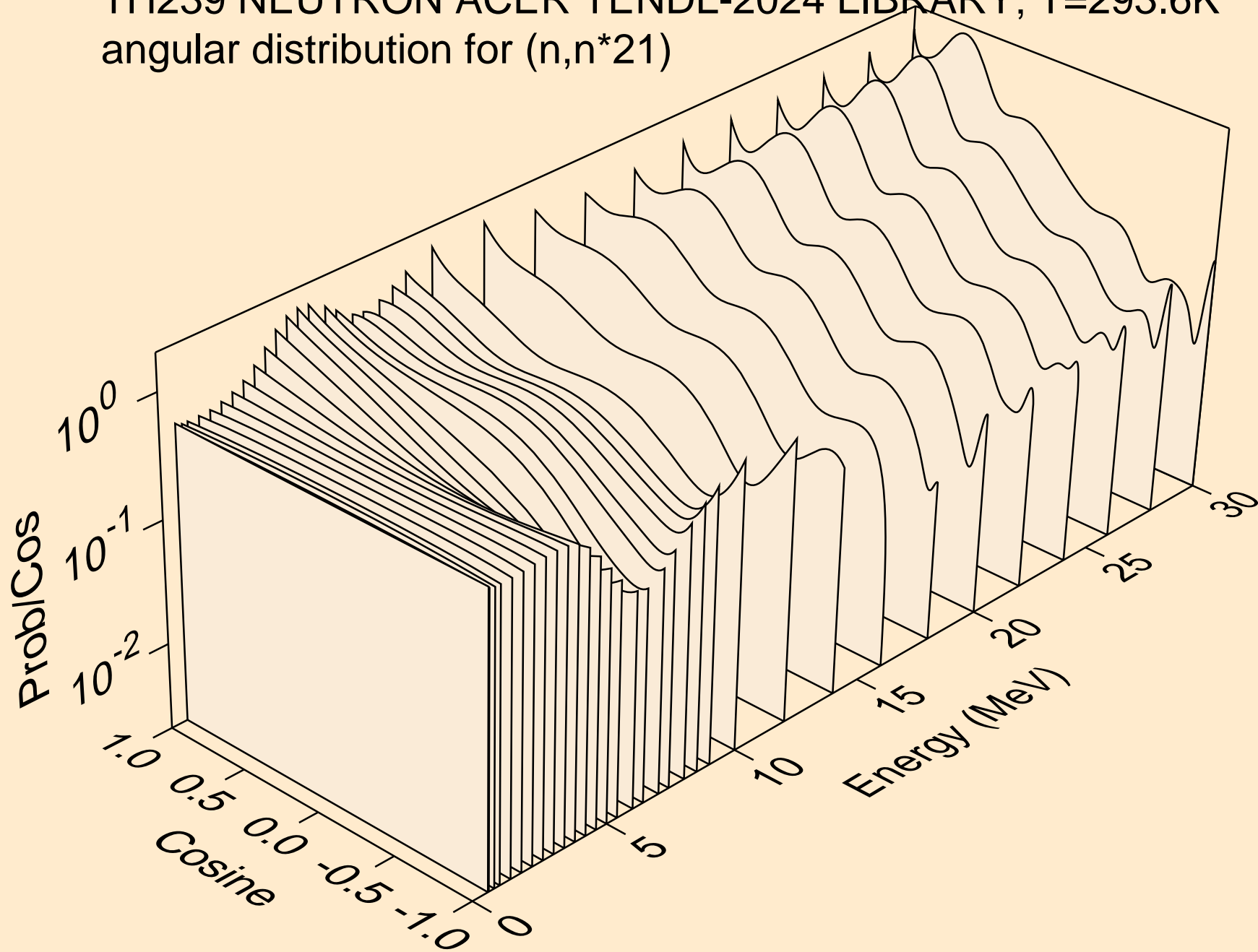
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angular distribution for (n,n\*19)



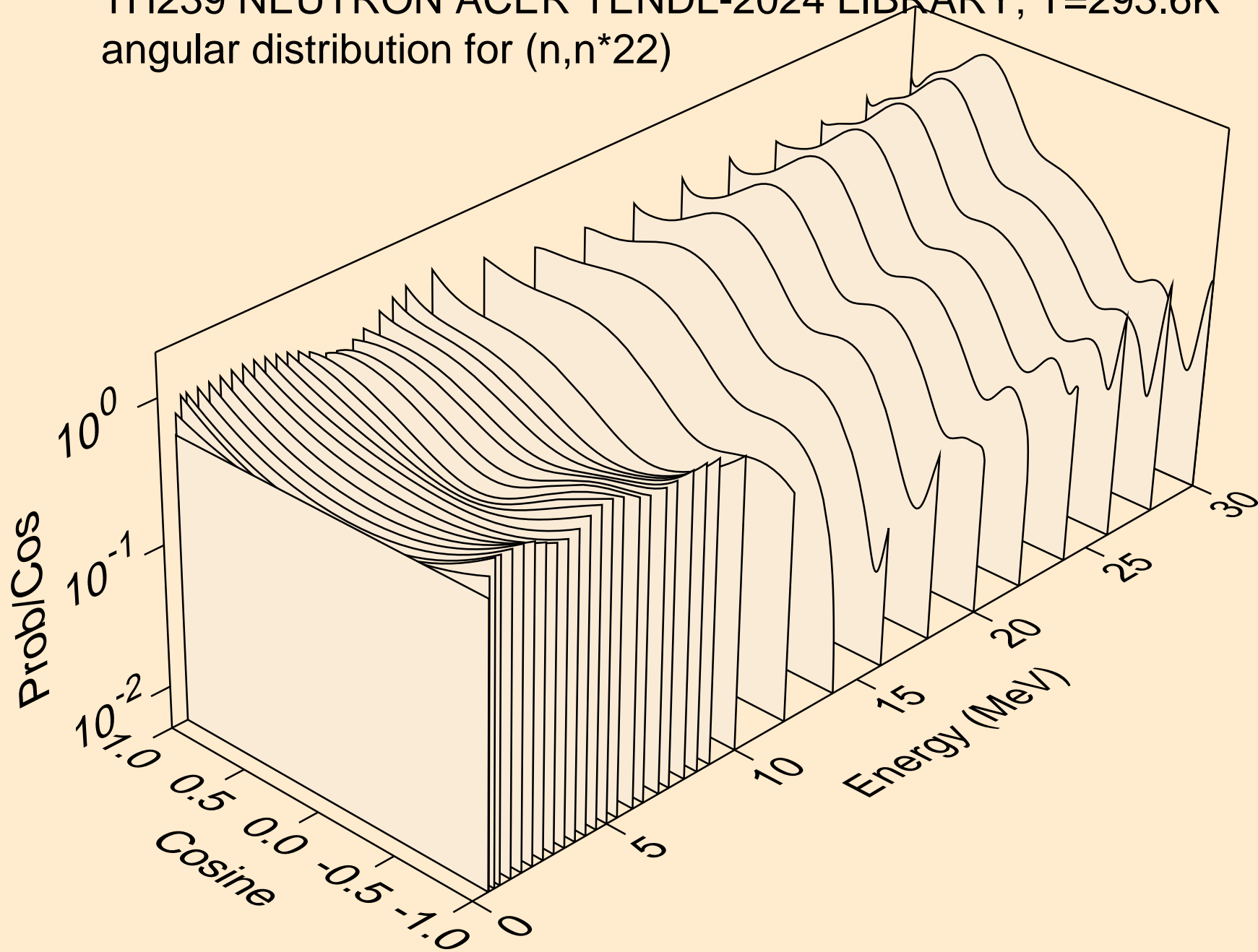
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angular distribution for (n,n\*20)



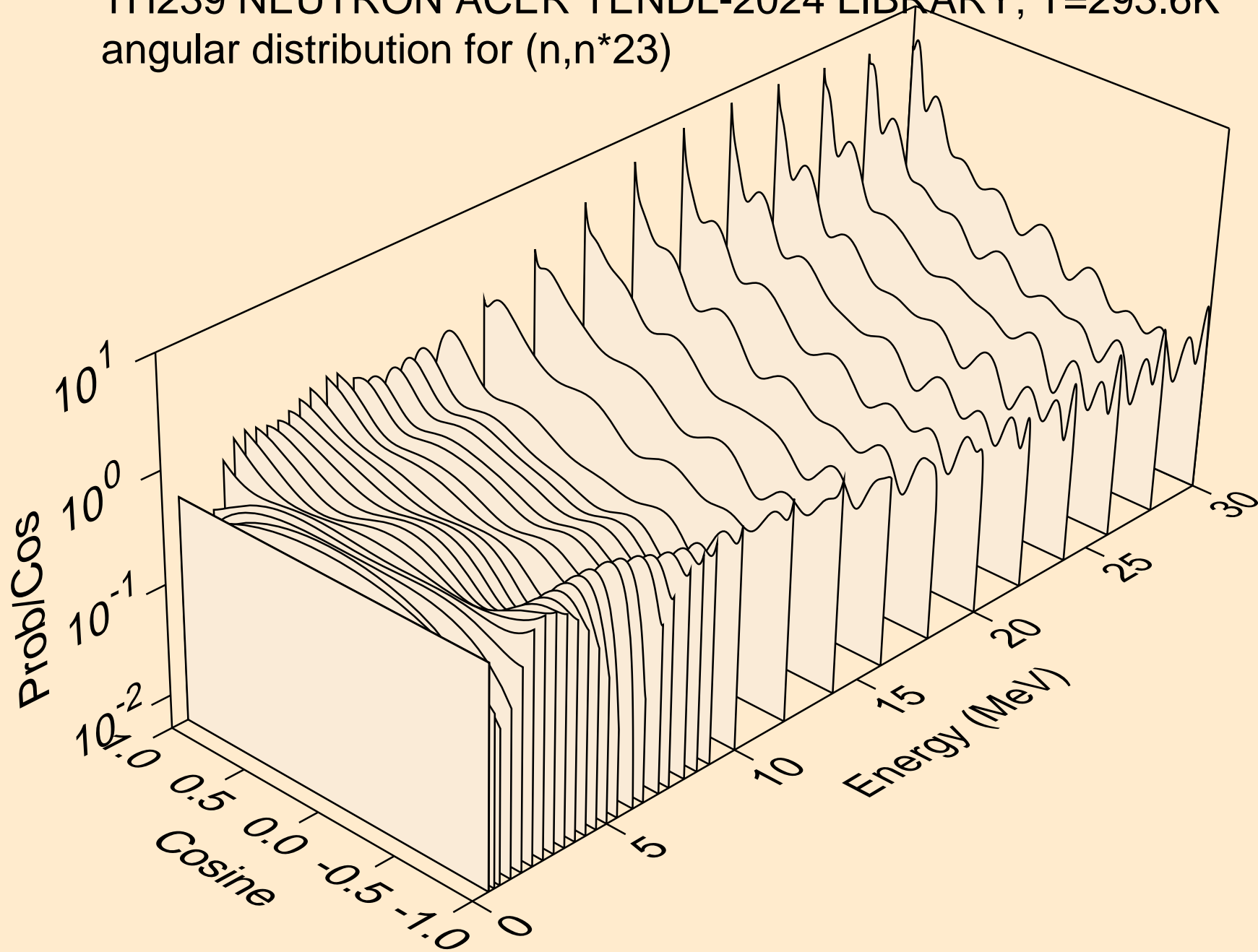
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angular distribution for (n,n\*21)



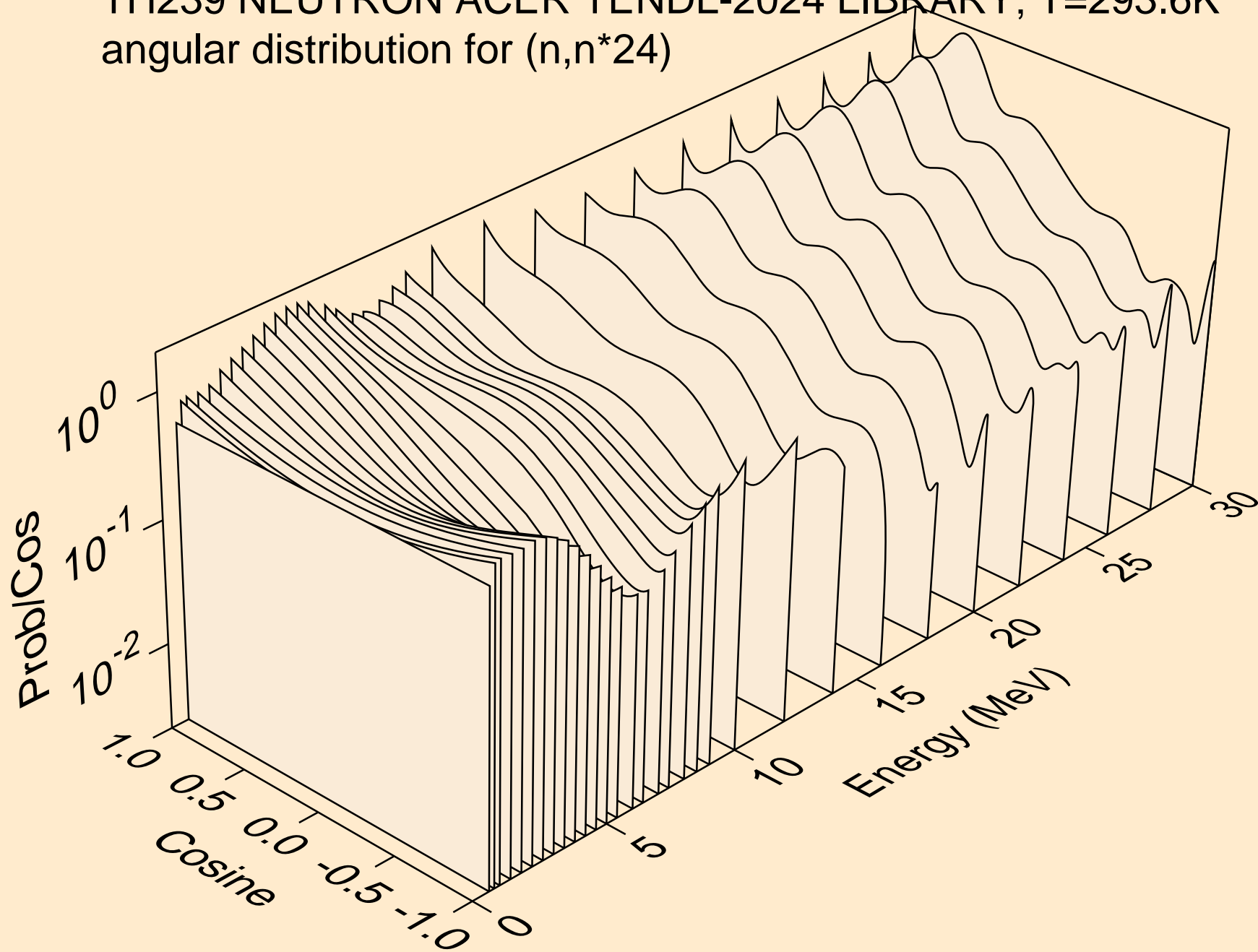
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angular distribution for (n,n\*22)



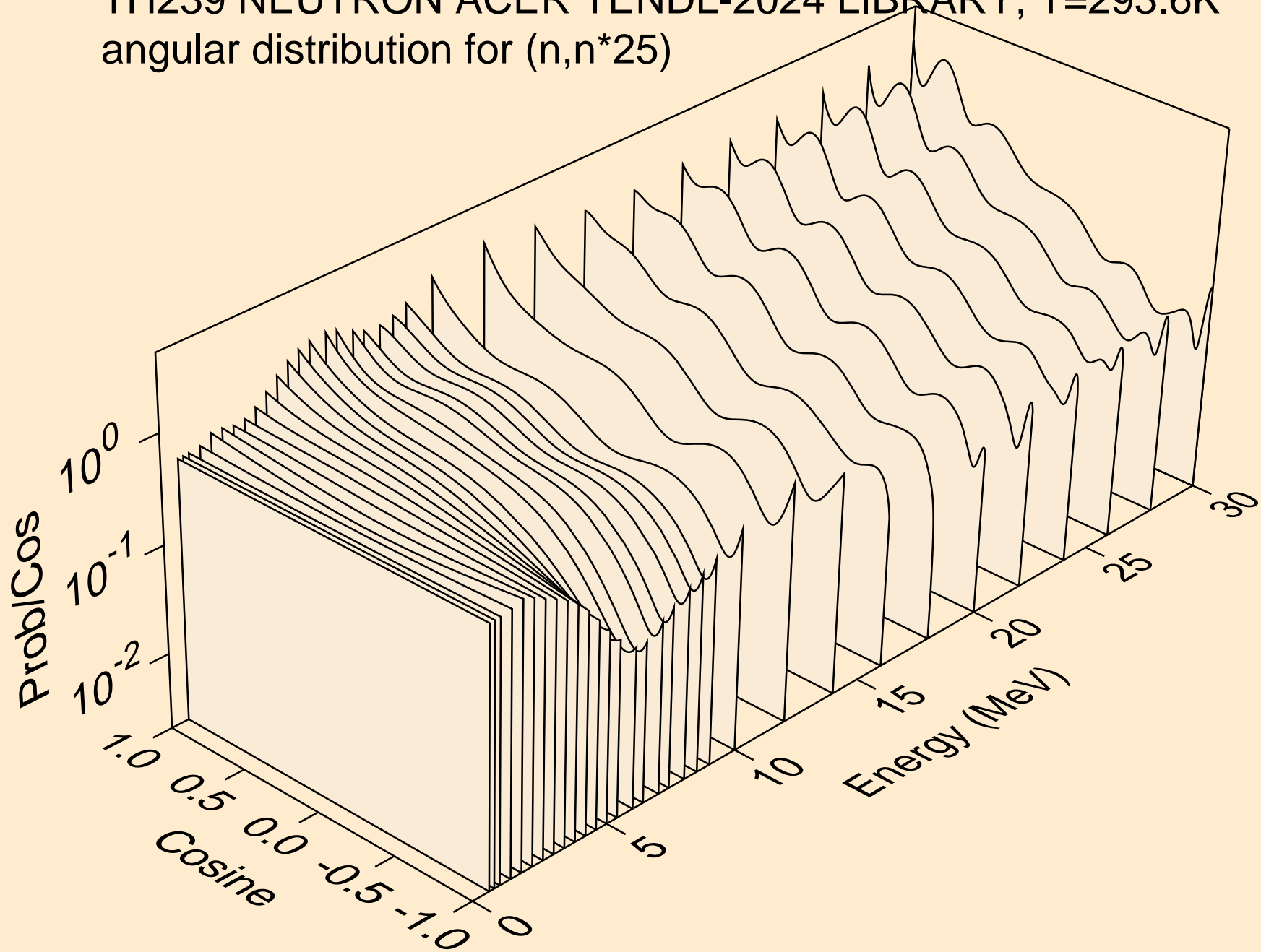
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angular distribution for (n,n\*23)



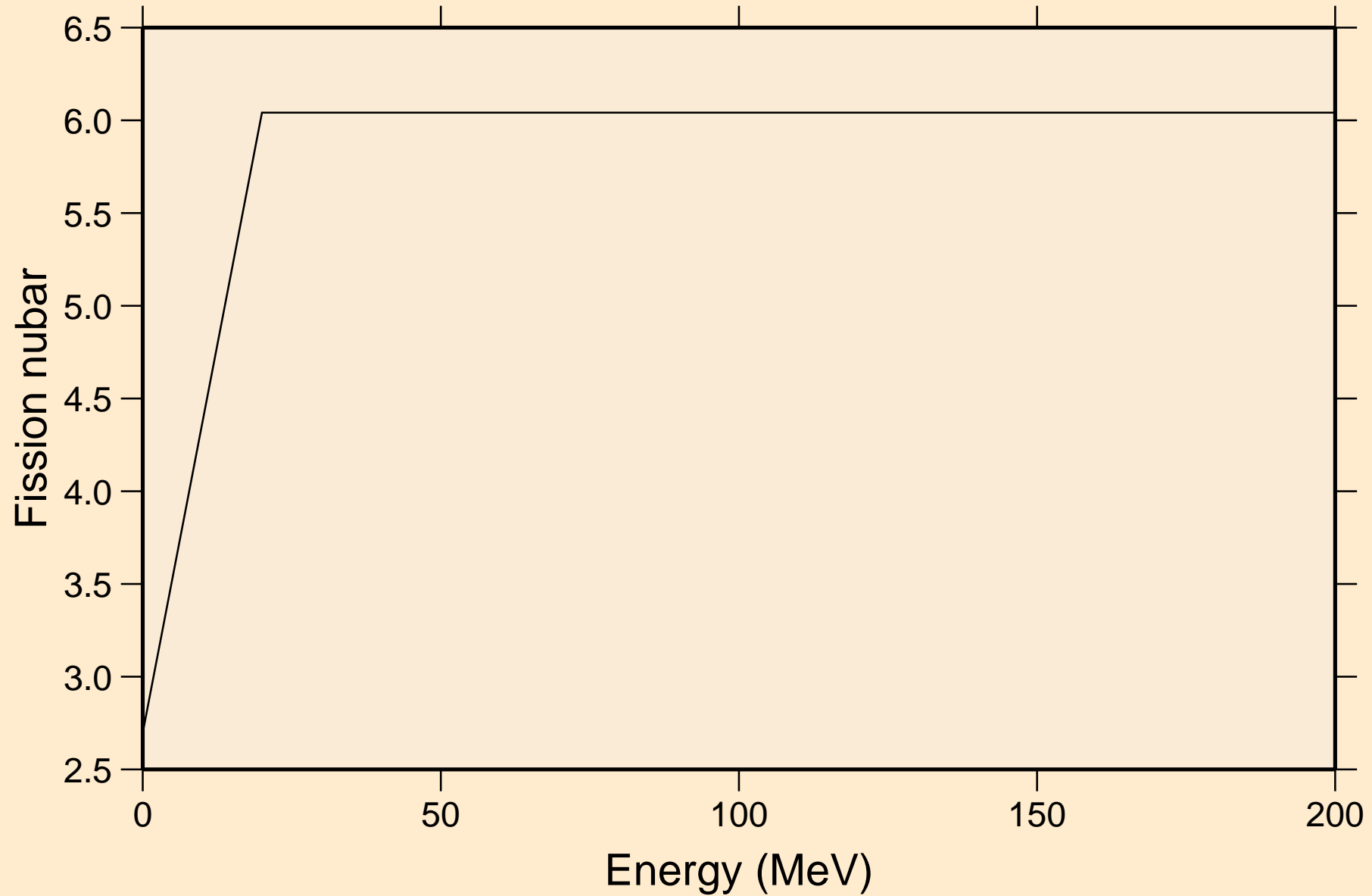
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angular distribution for (n,n\*24)



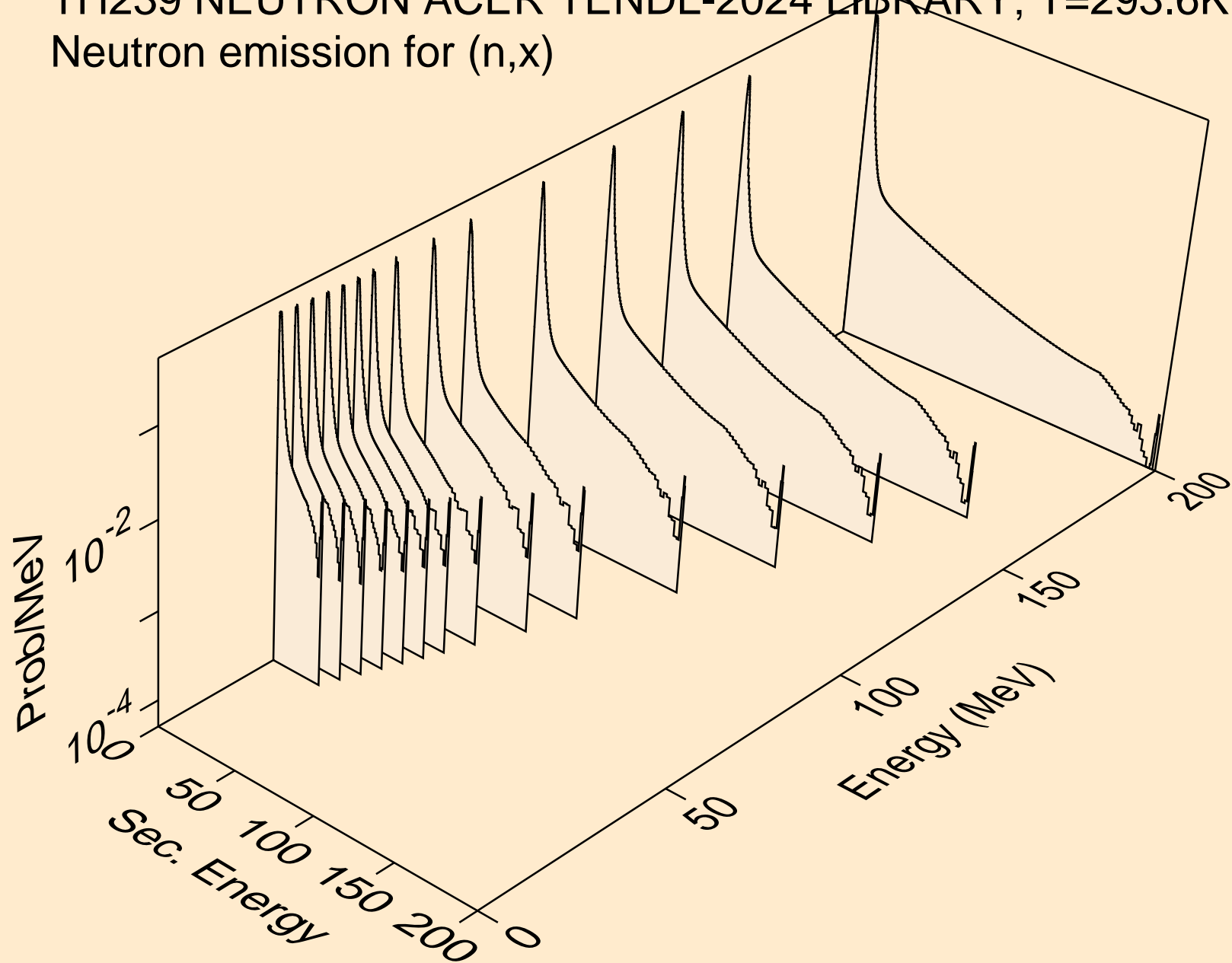
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angular distribution for (n,n\*25)



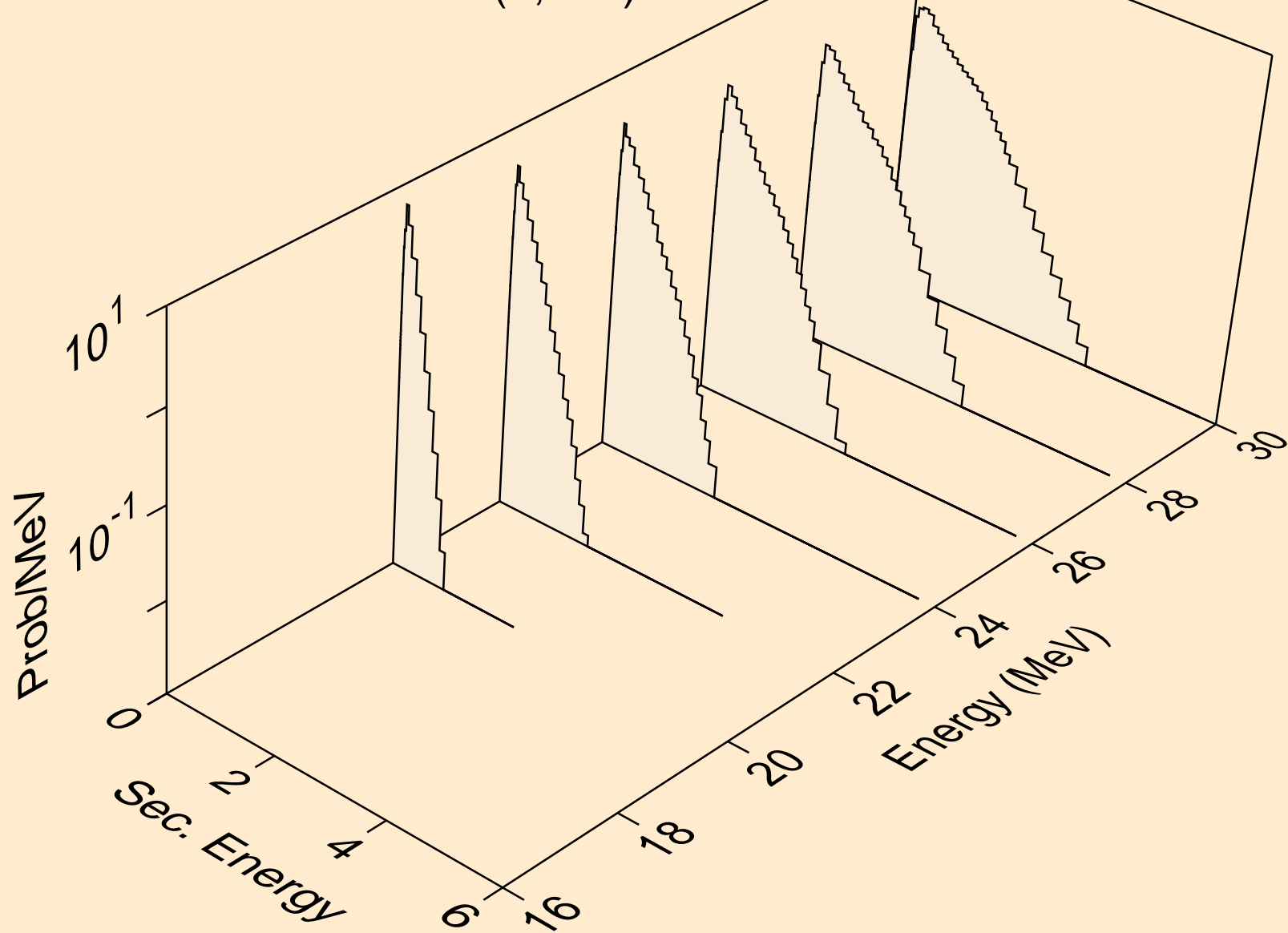
TH239 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Total fission nubar



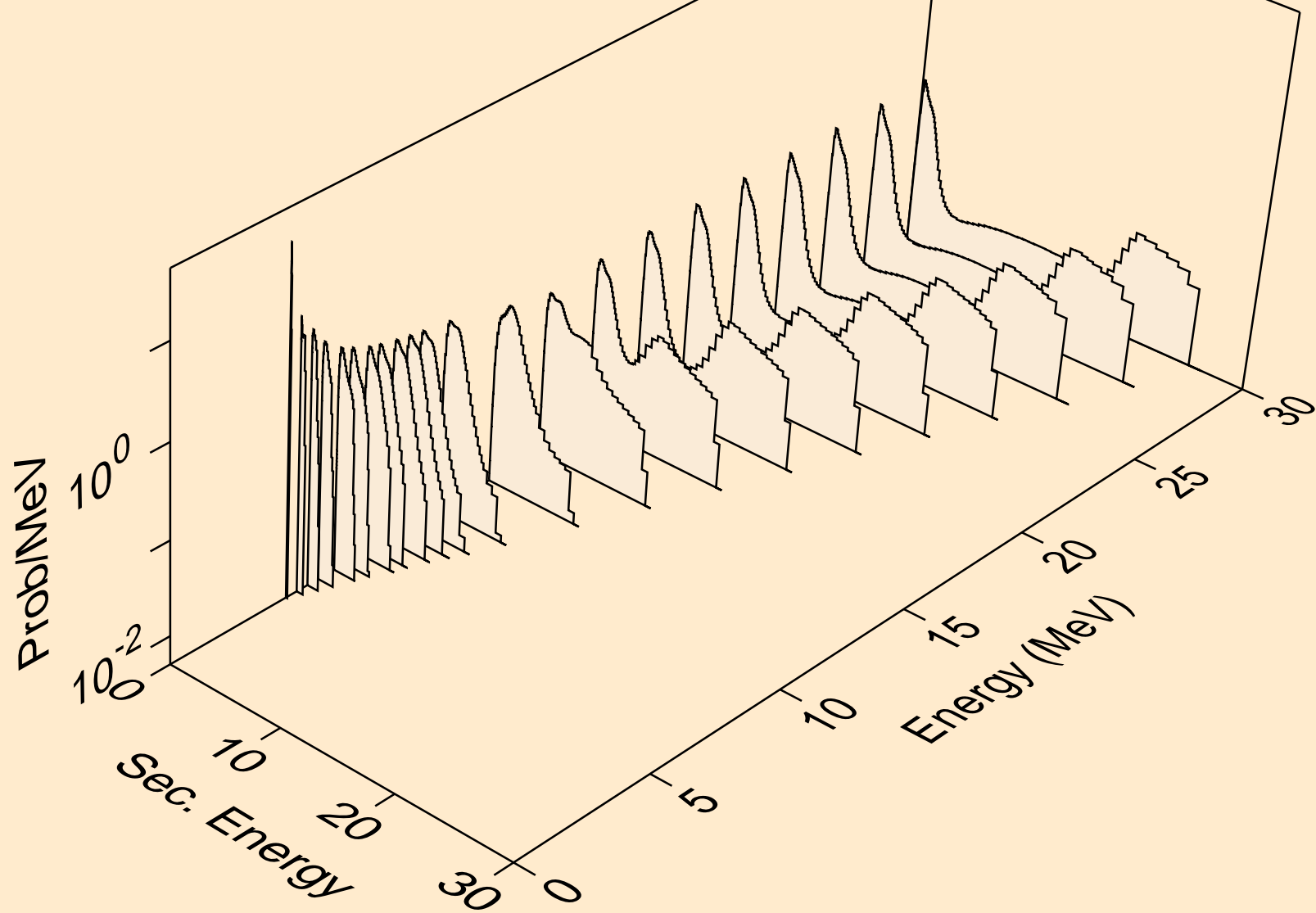
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Neutron emission for (n,x)



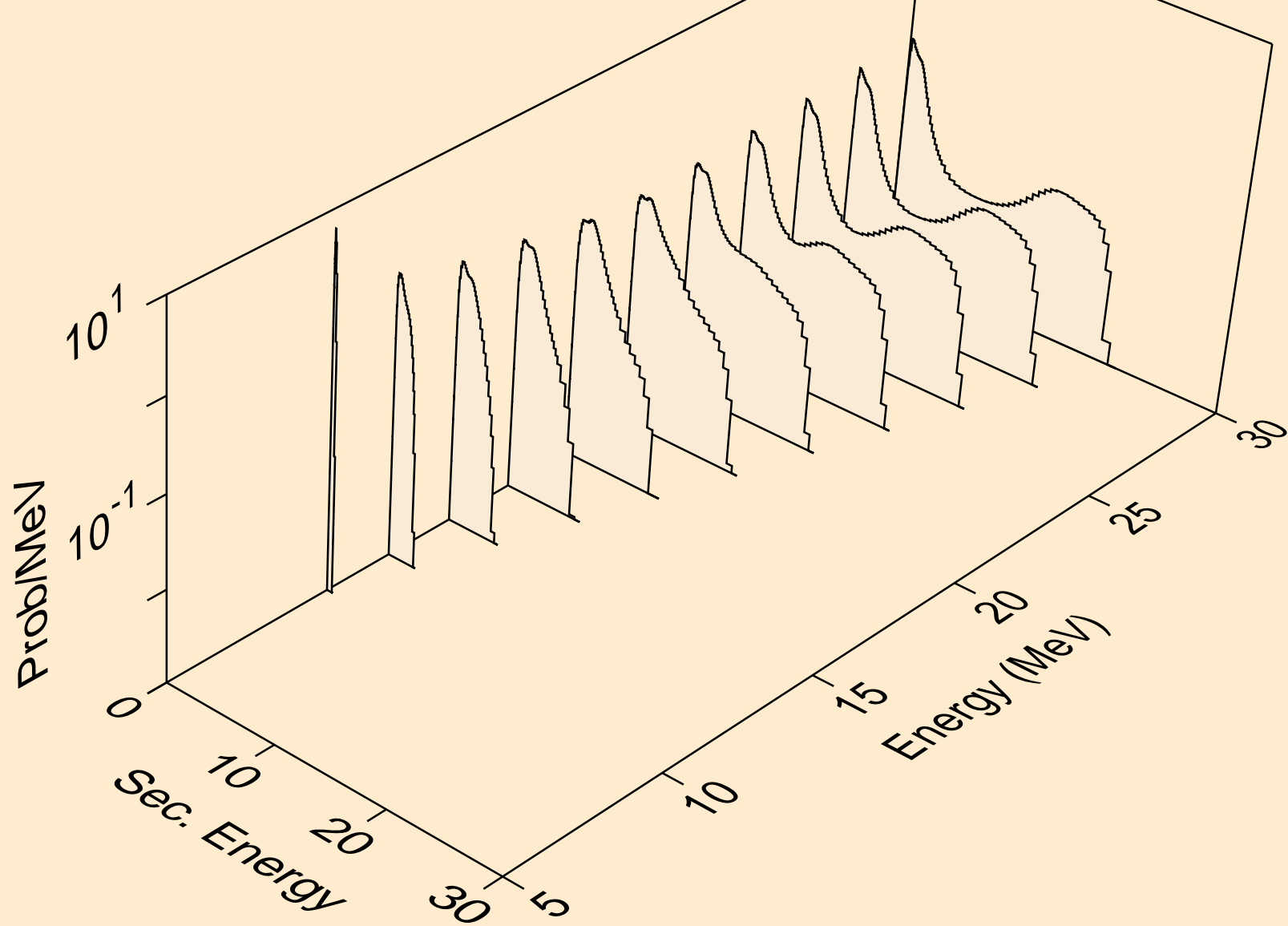
TH239 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Neutron emission for (n,2nd)



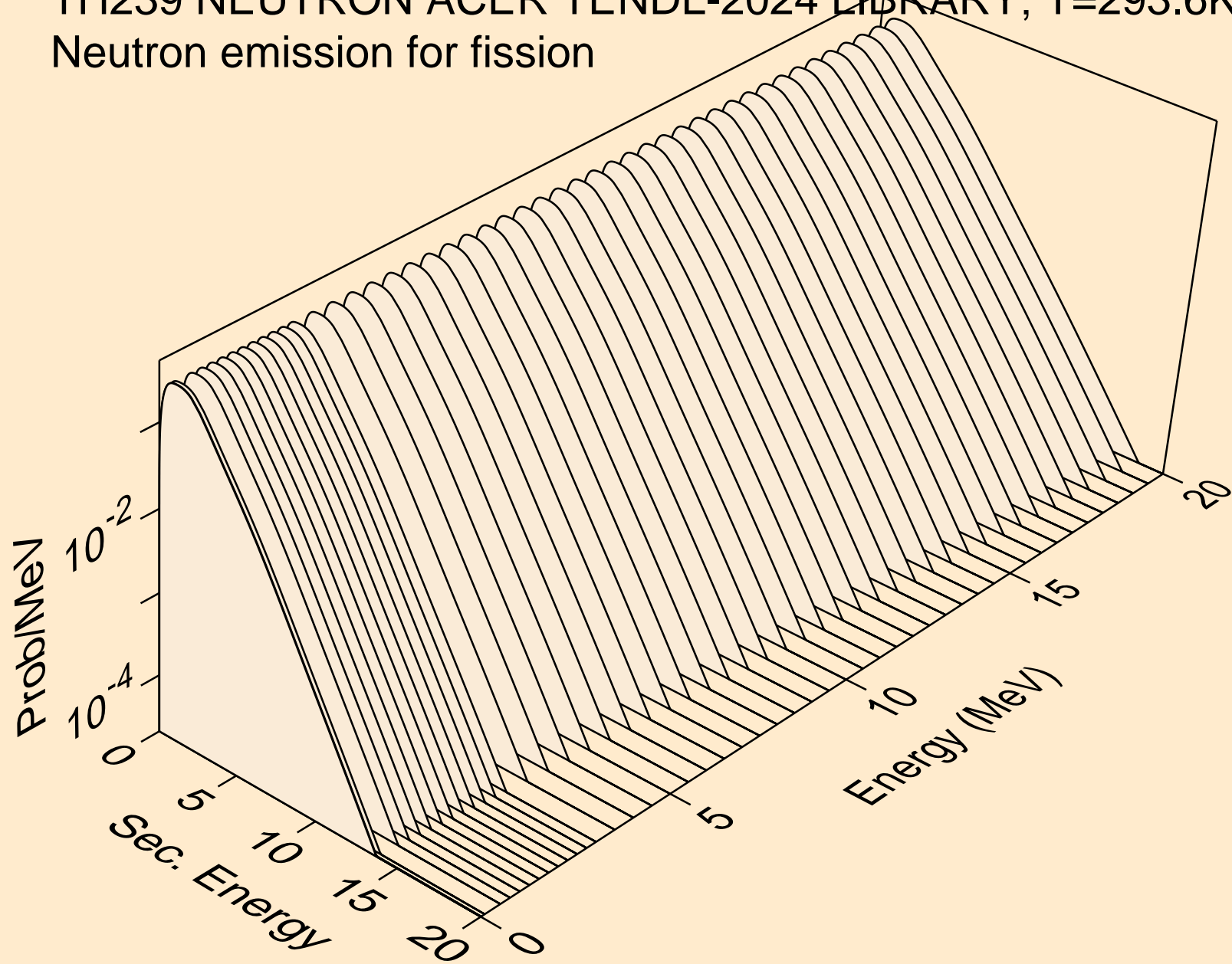
TH239 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Neutron emission for (n,2n)



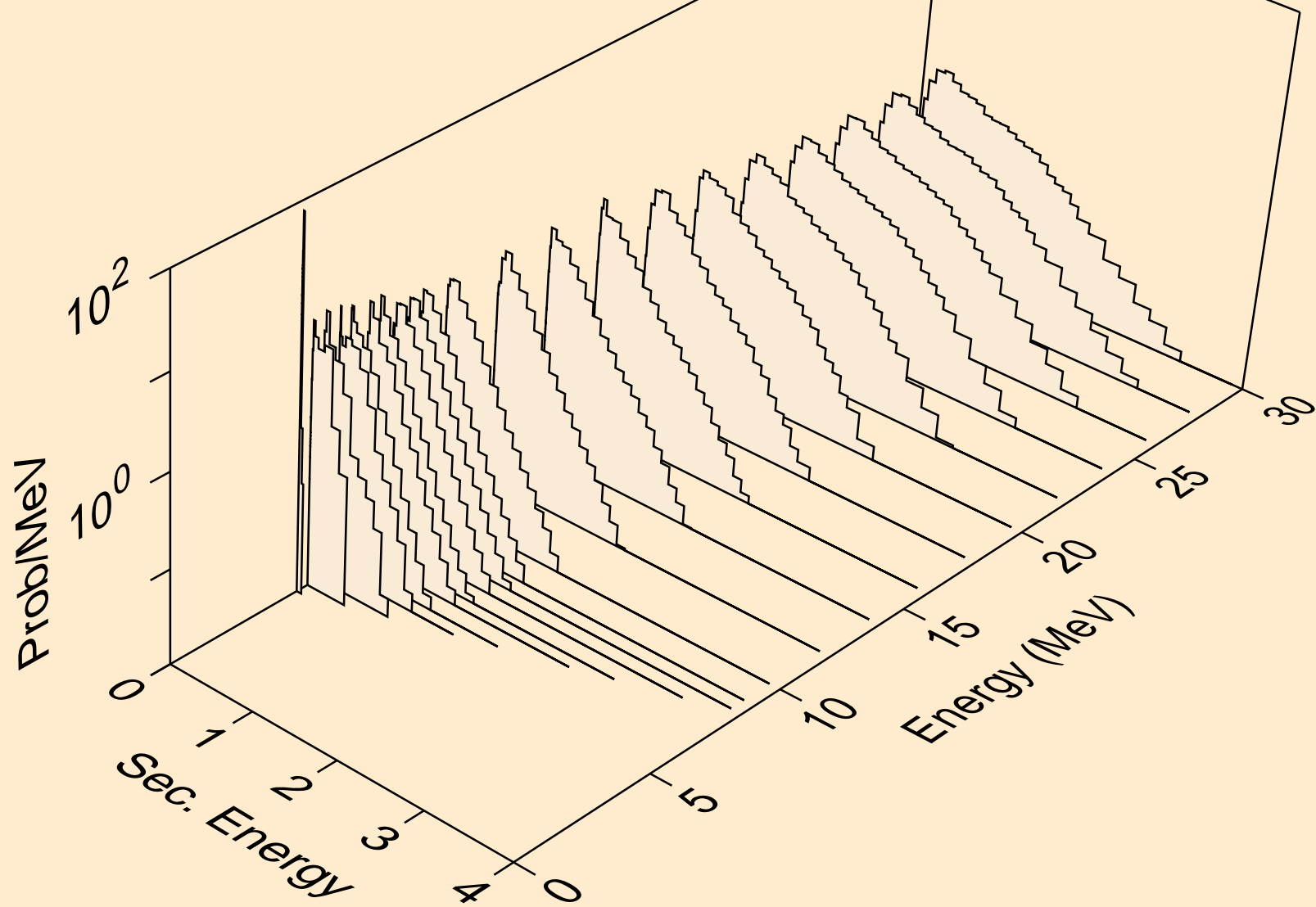
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Neutron emission for (n,3n)



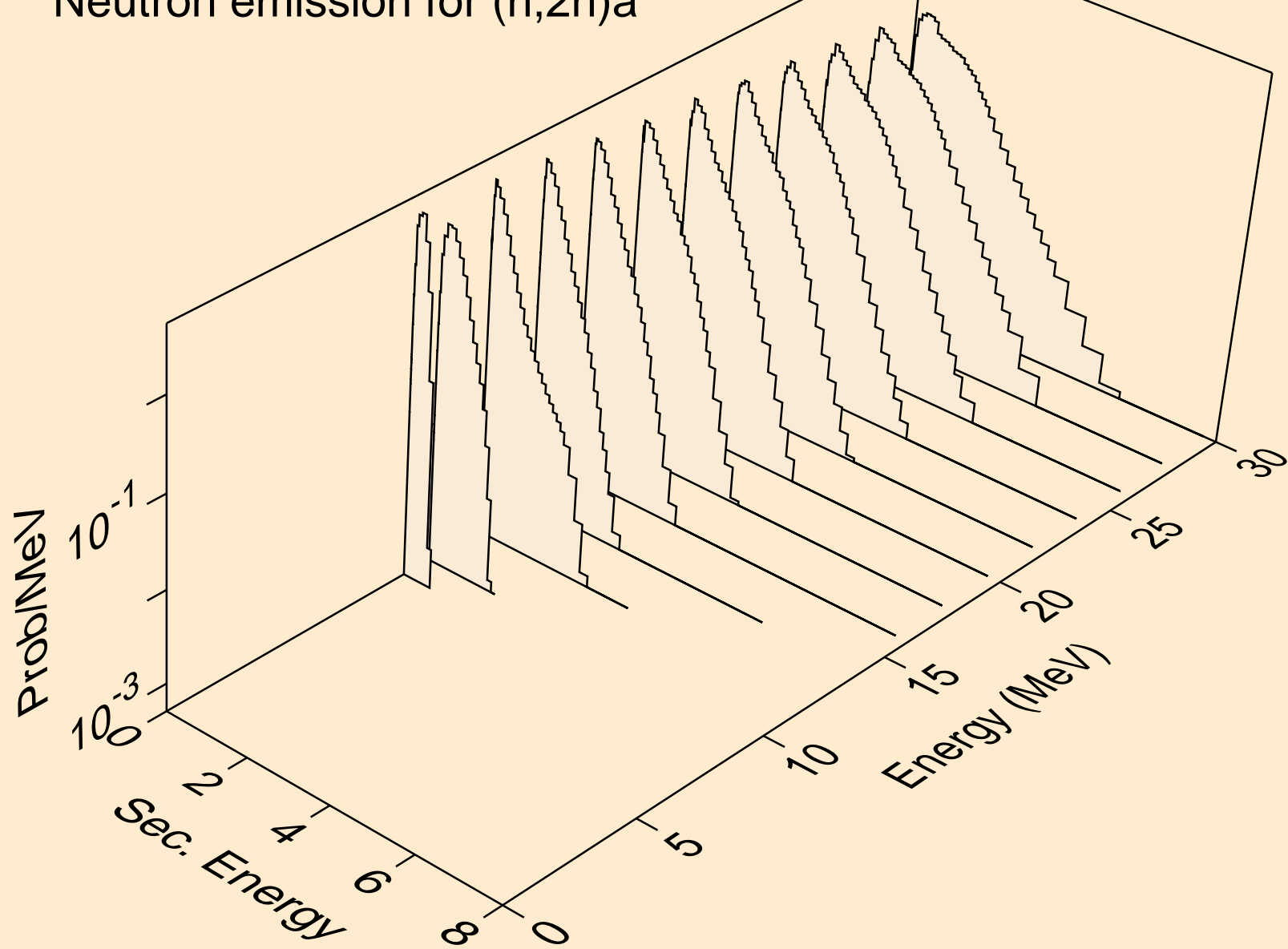
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Neutron emission for fission



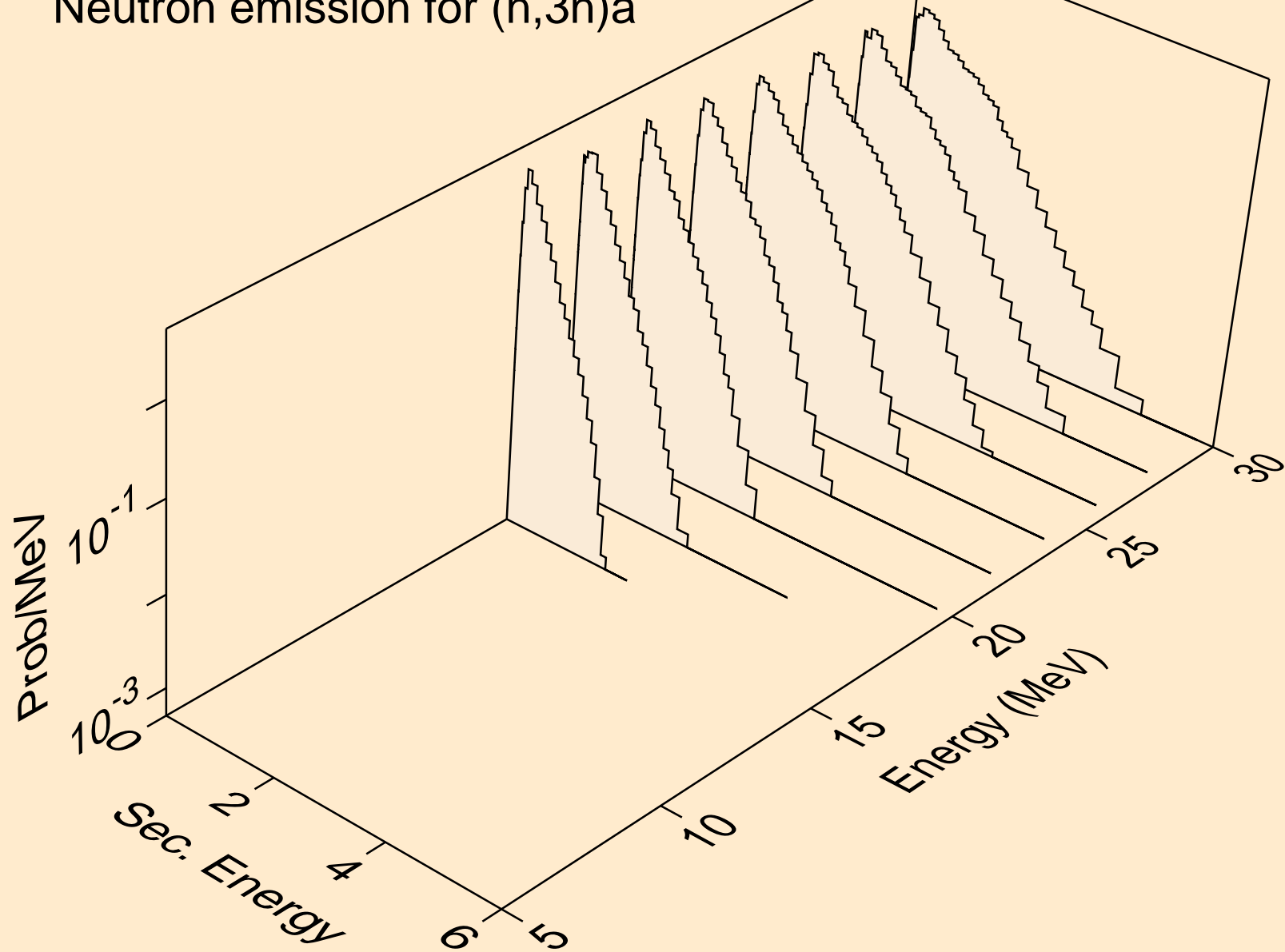
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Neutron emission for (n,n\*)a



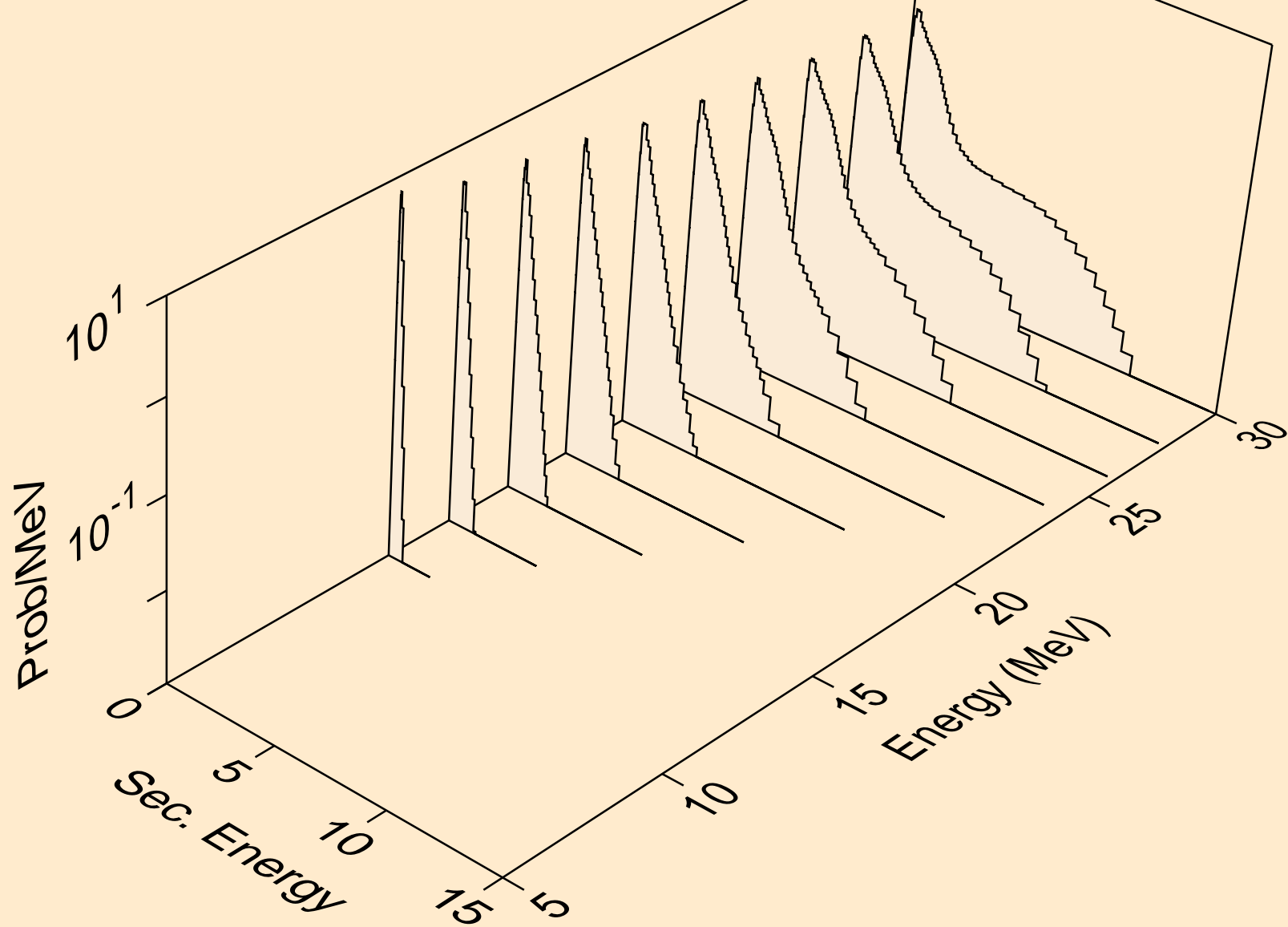
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Neutron emission for (n,2n)<sub>a</sub>



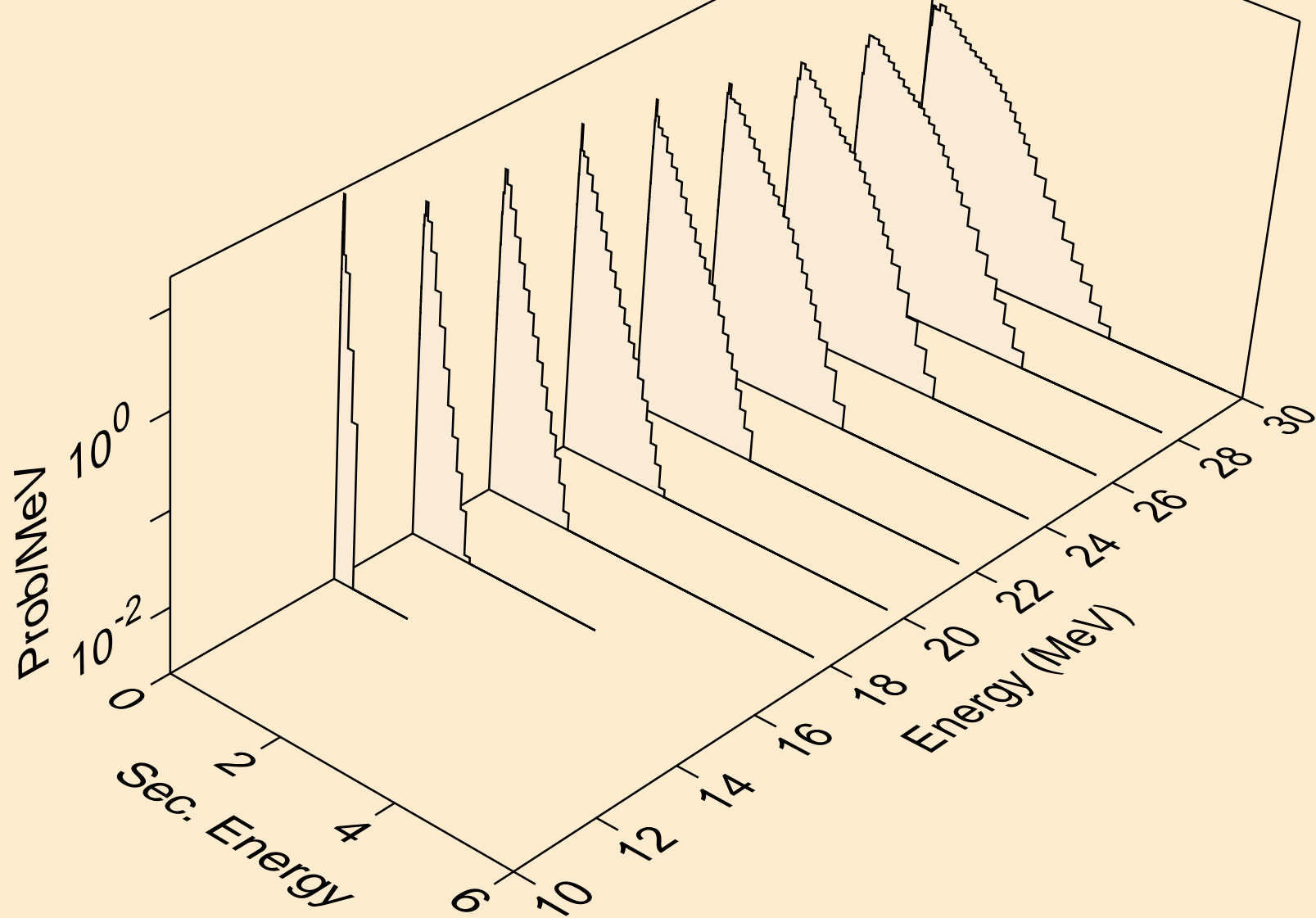
TH239 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Neutron emission for (n,3n)<sub>a</sub>



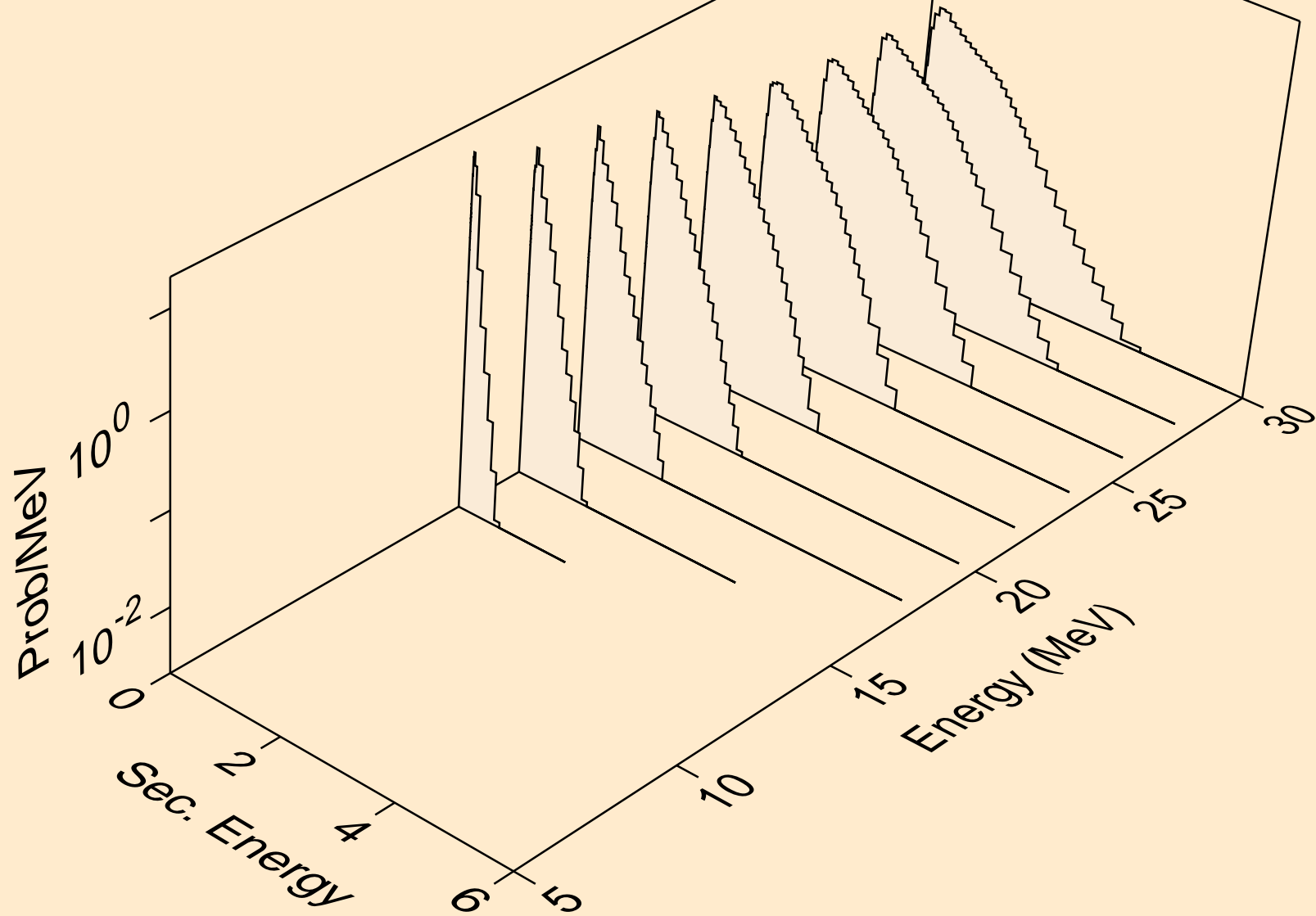
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Neutron emission for (n,n\*)p



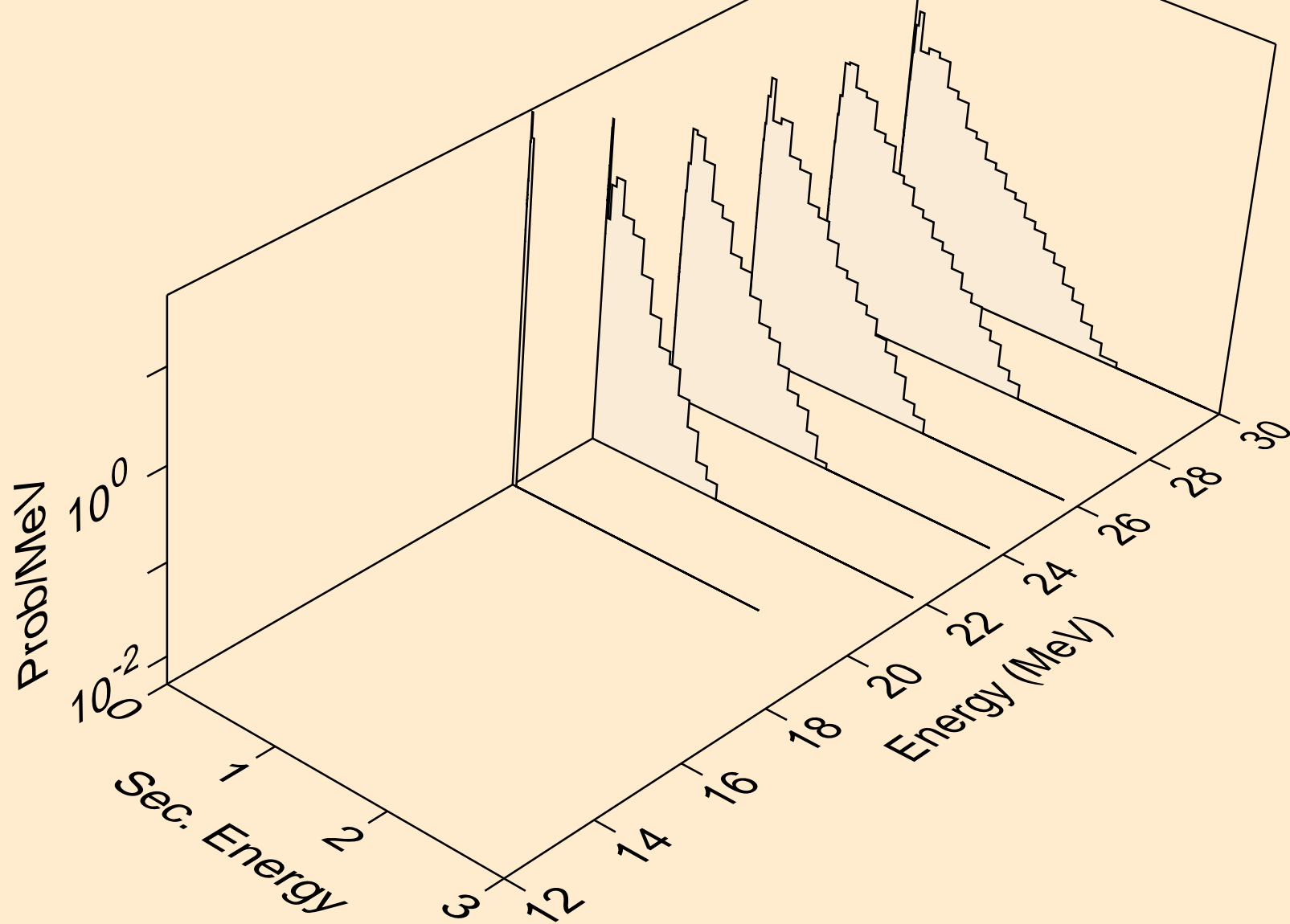
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Neutron emission for (n,n\*)d



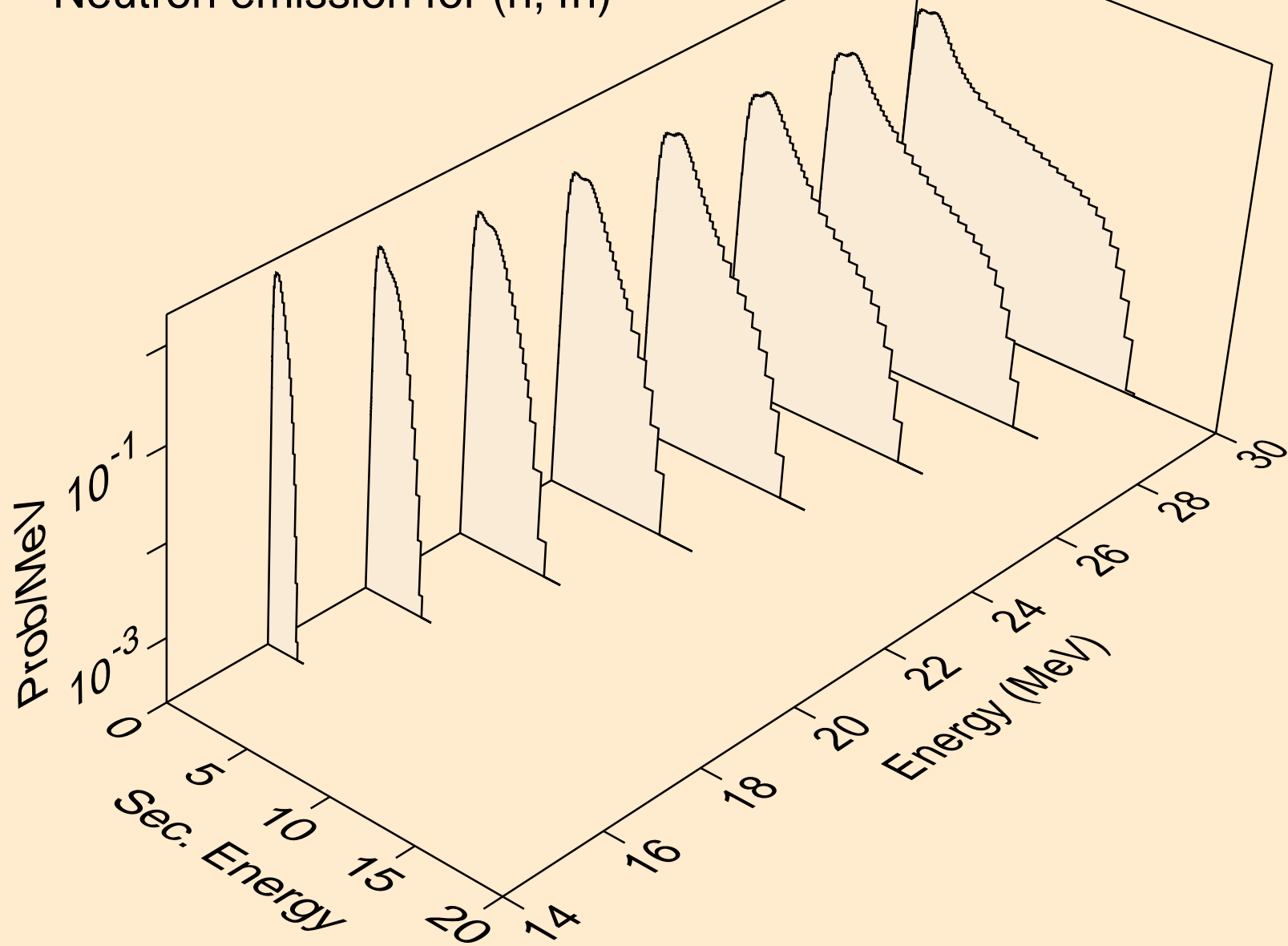
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Neutron emission for (n,n\*)t



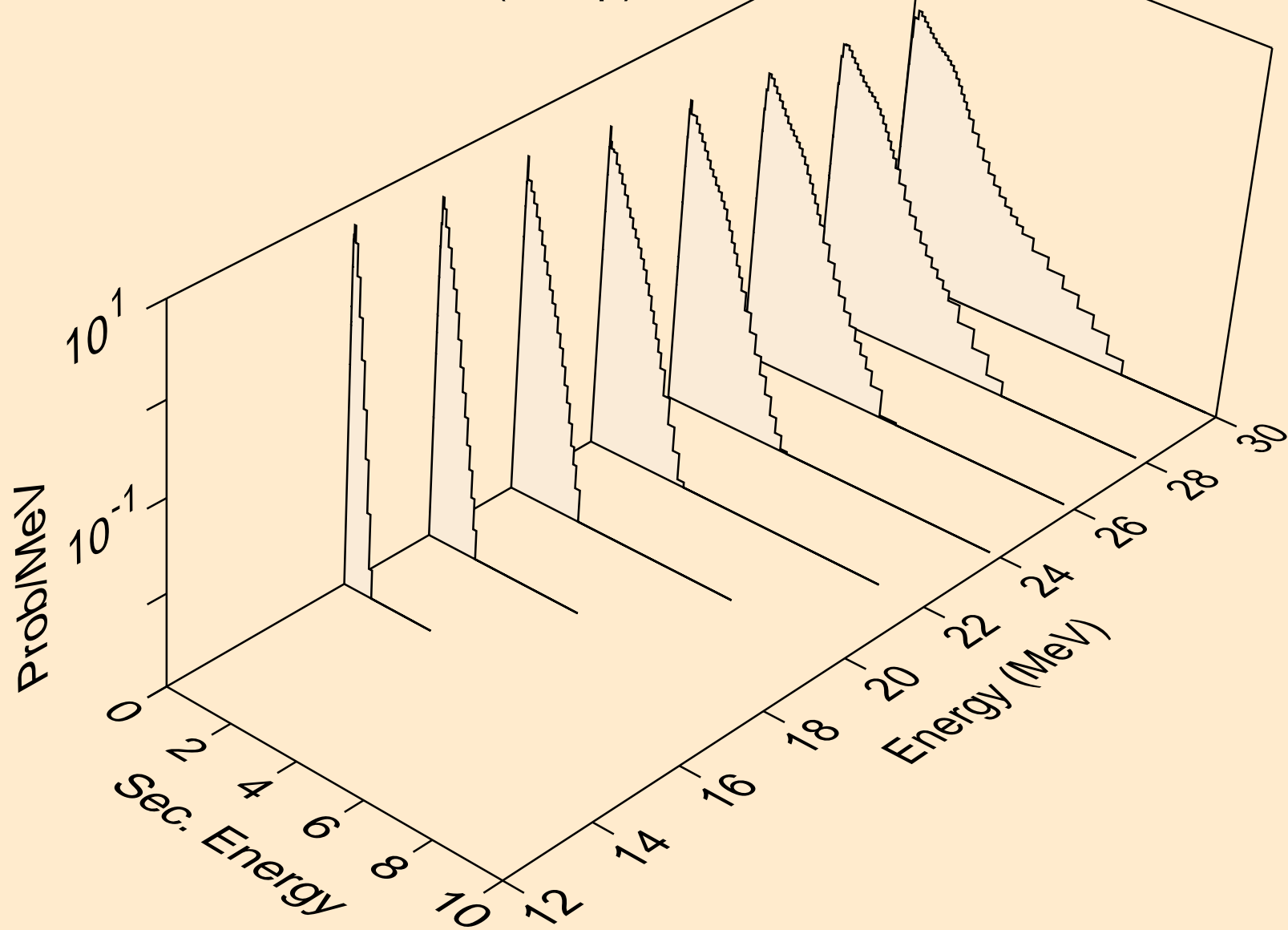
TH239 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Neutron emission for (n,n\*)he3



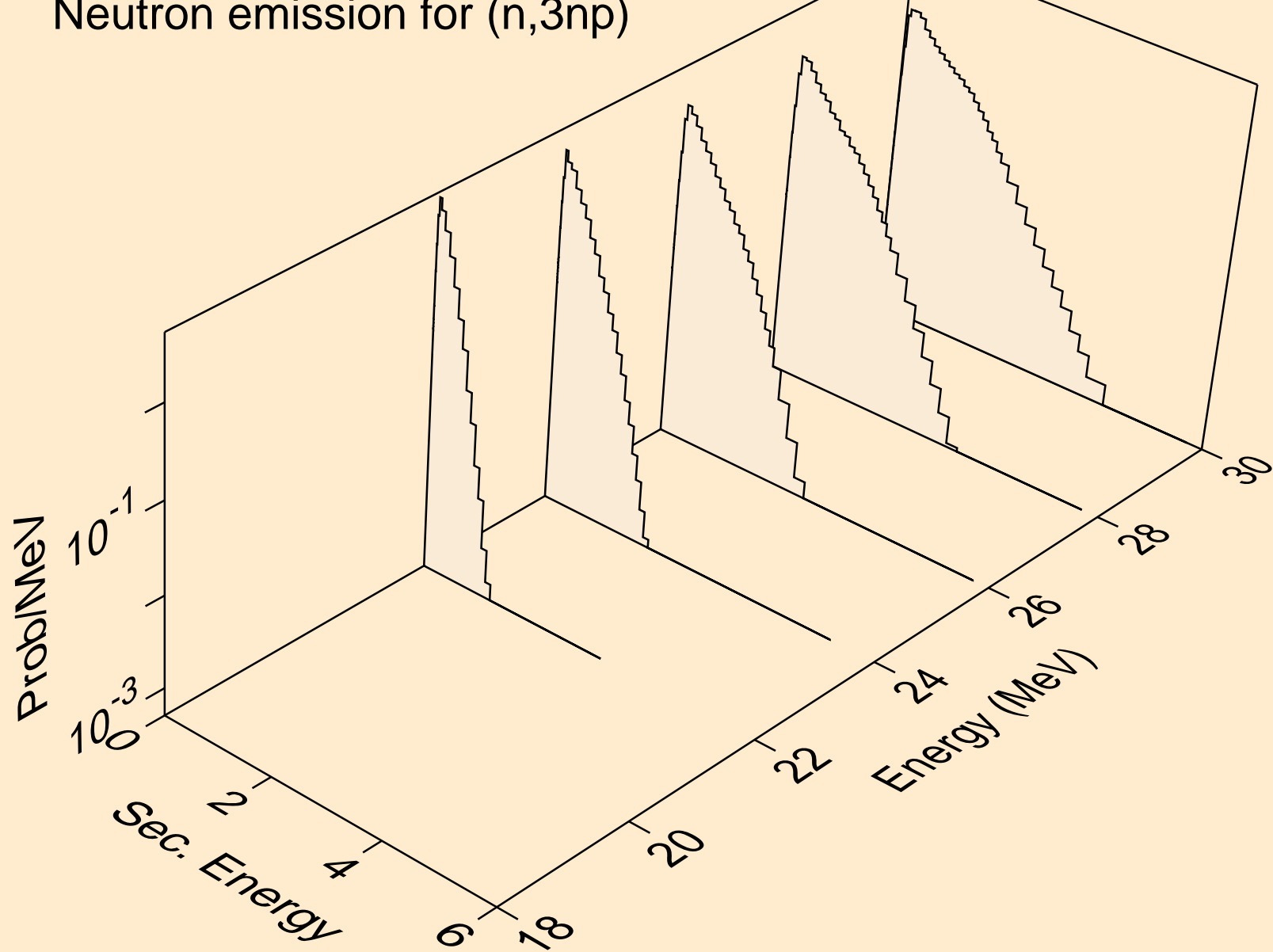
TH239 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Neutron emission for (n,4n)



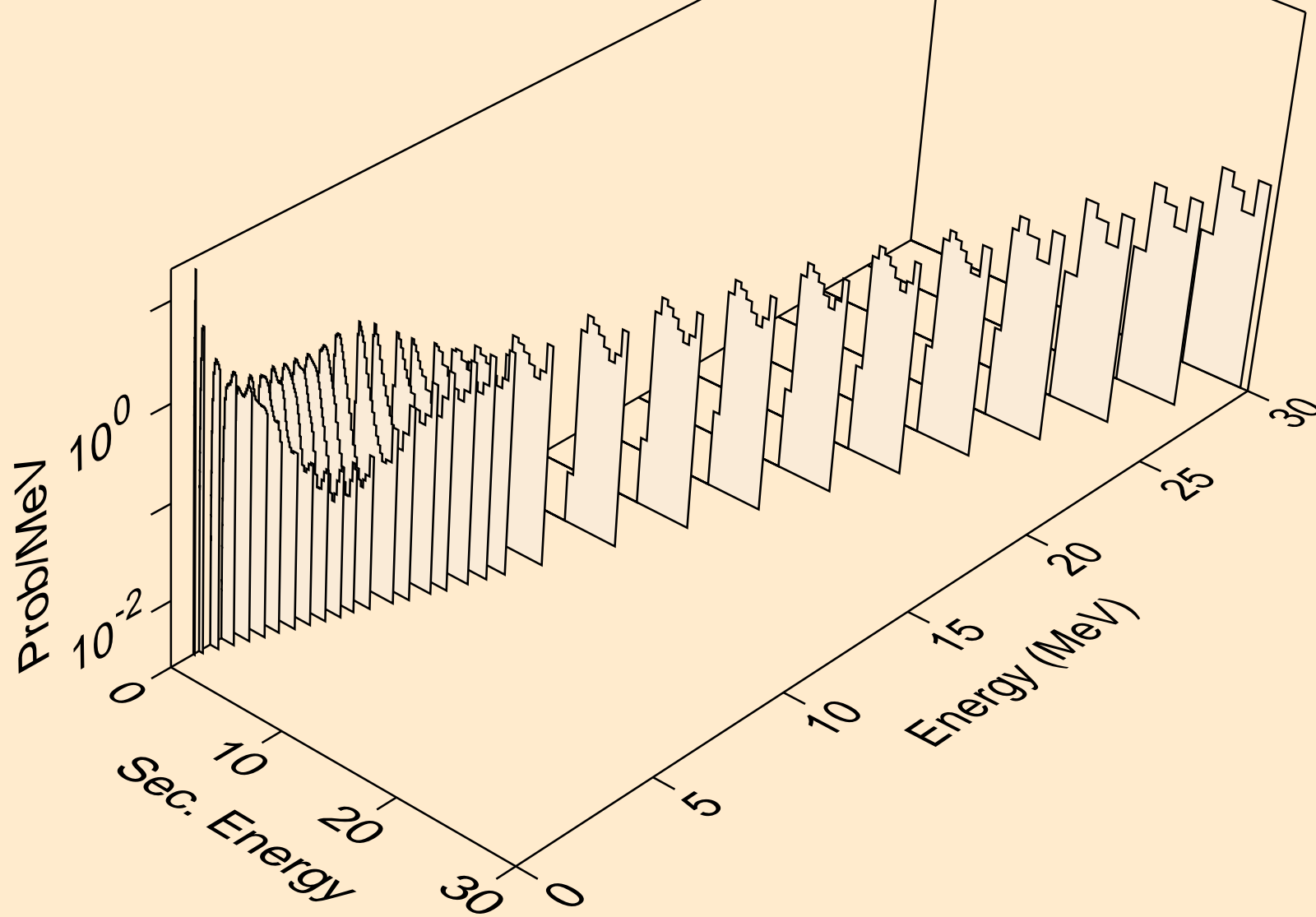
TH239 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Neutron emission for (n,2np)



TH239 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Neutron emission for (n,3np)

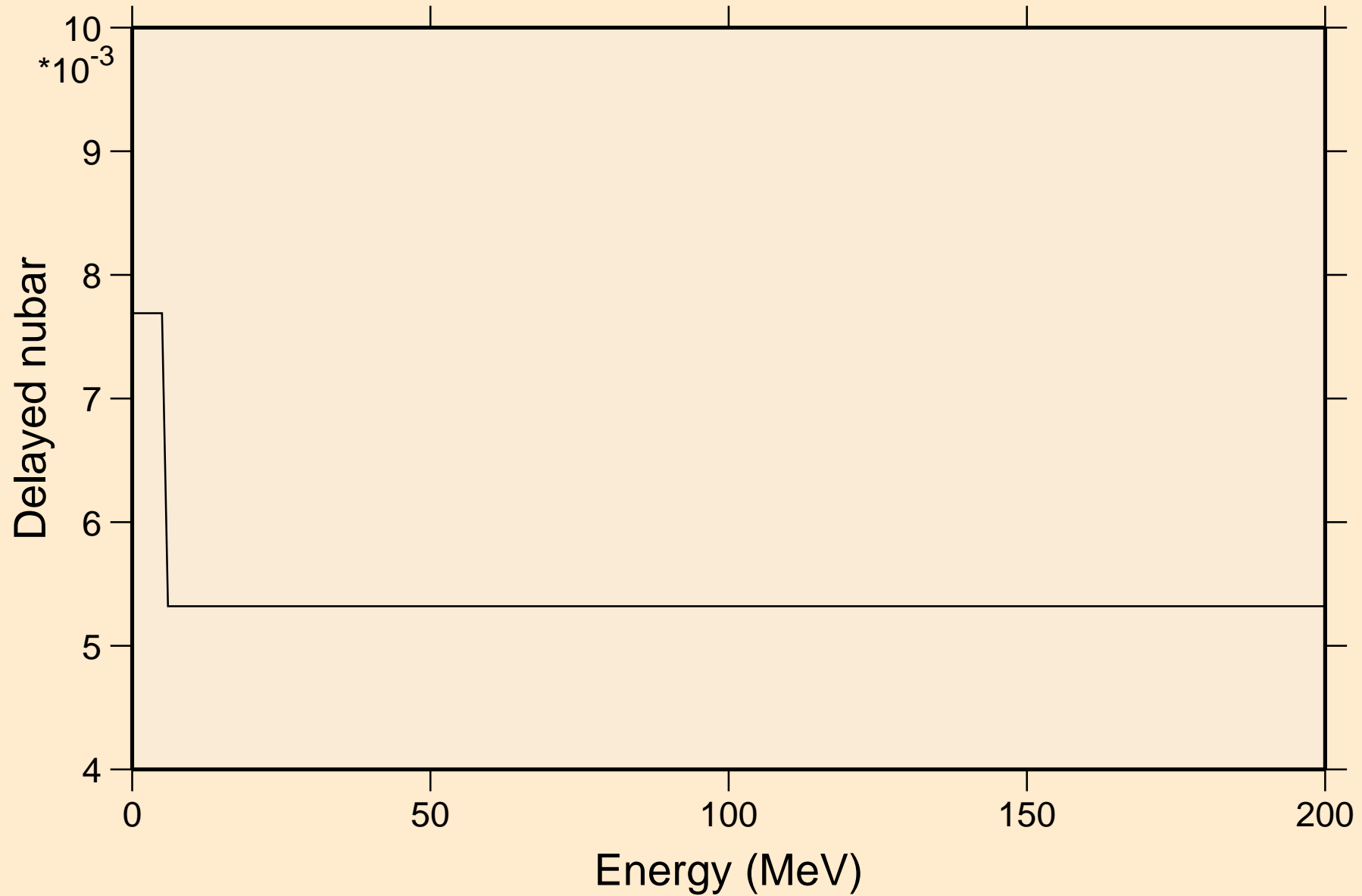


TH239 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Neutron emission for (n,n\*c)



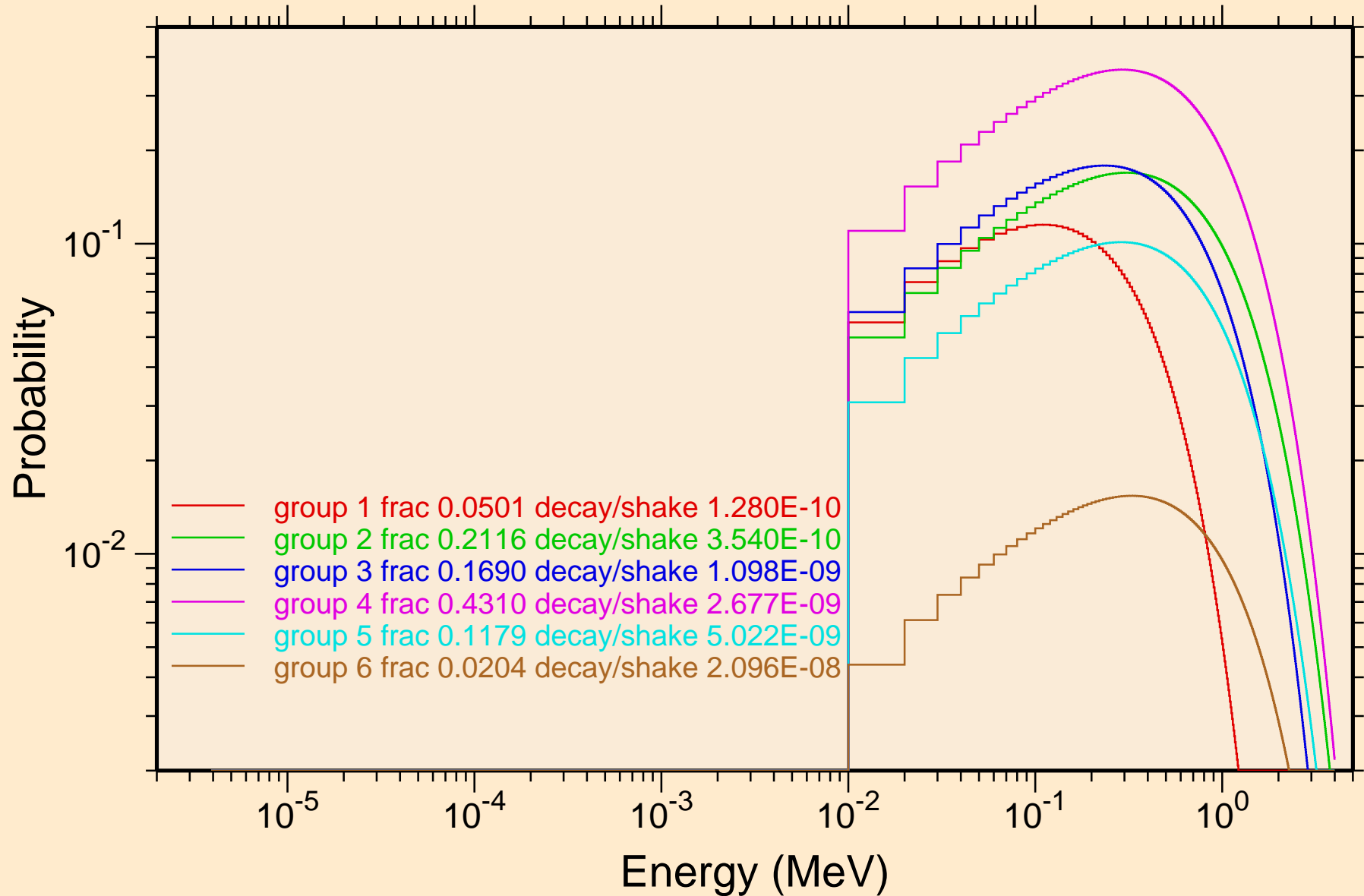
TH239 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K

Delayed nubar

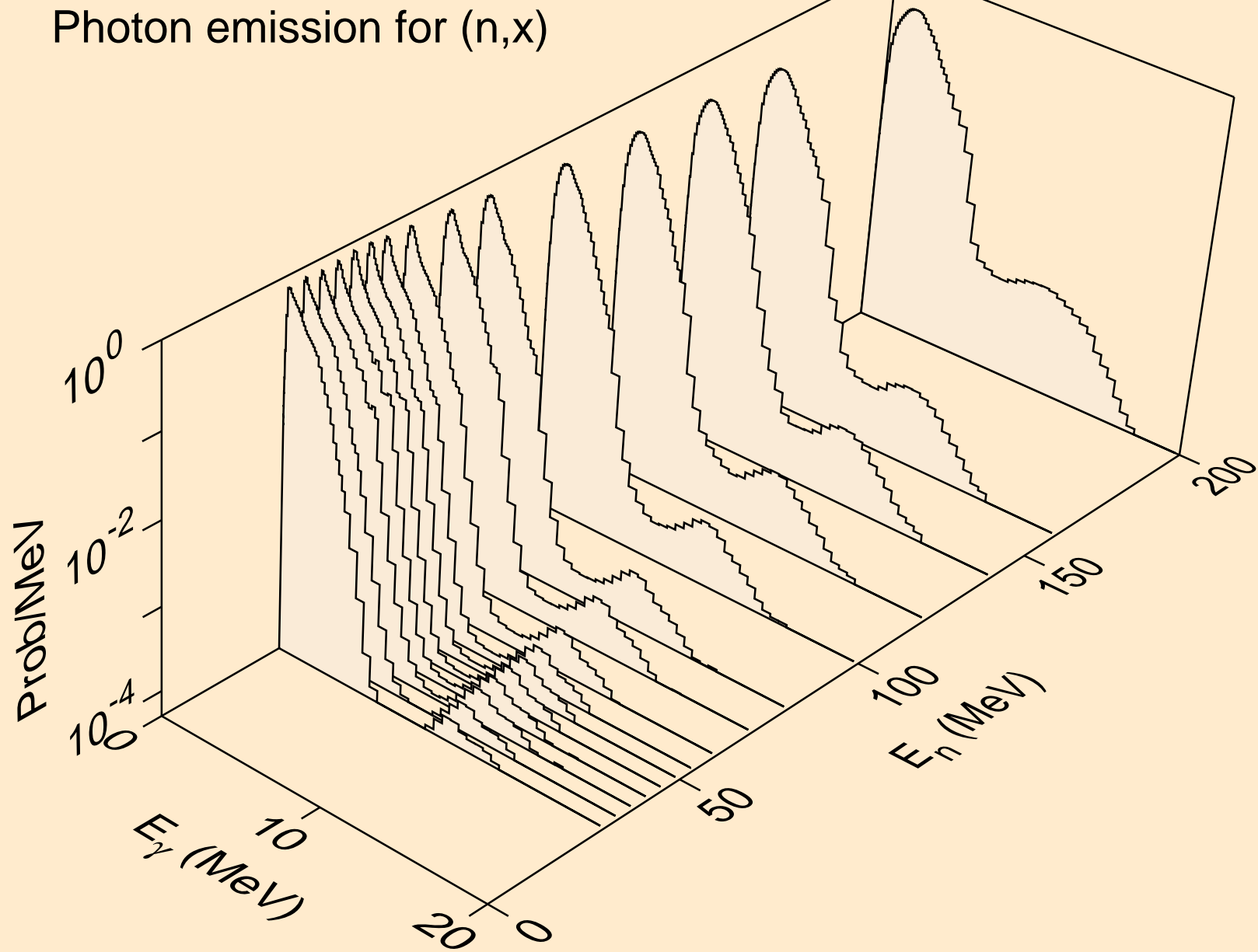


# TH239 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K

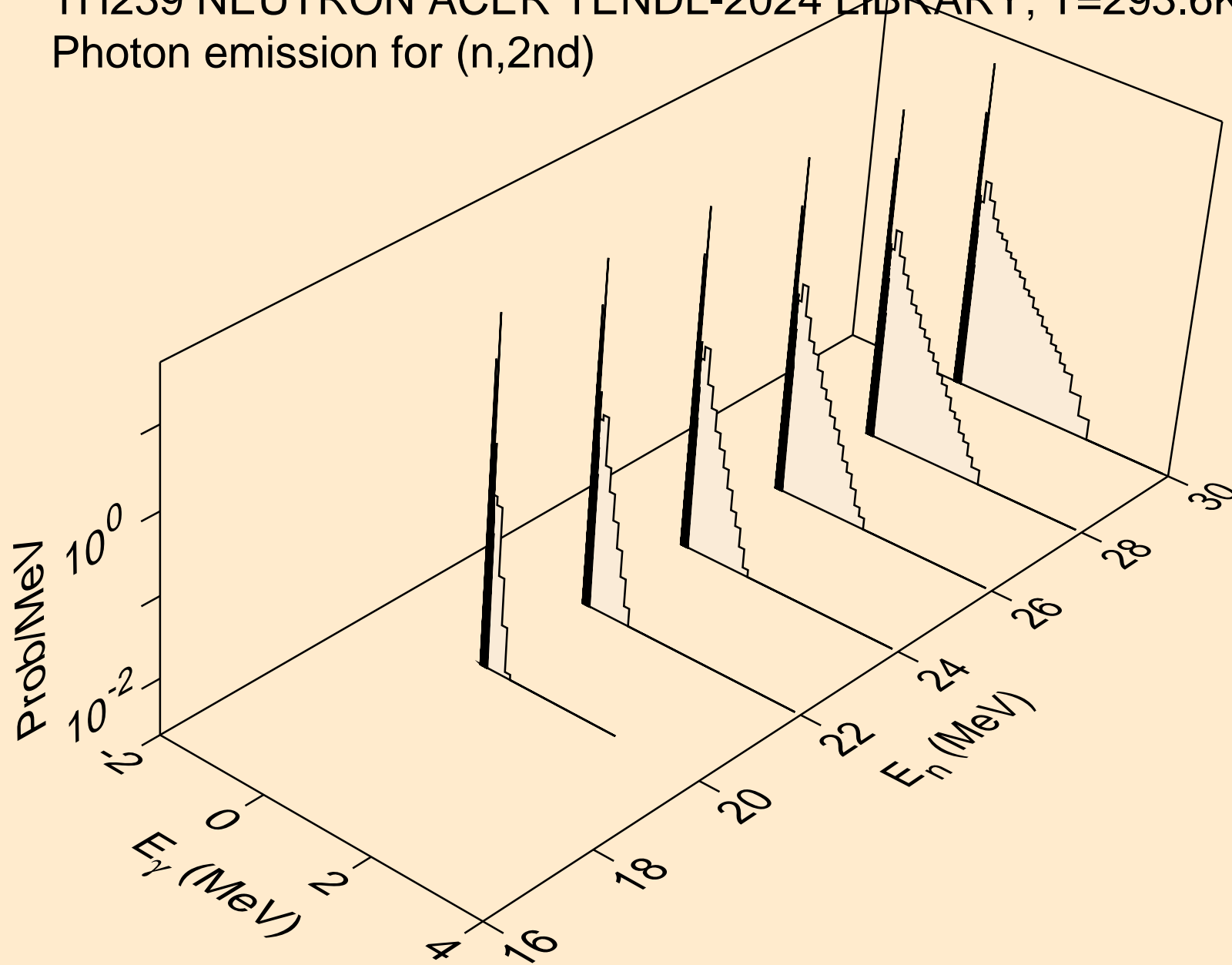
## Delayed neutron spectra



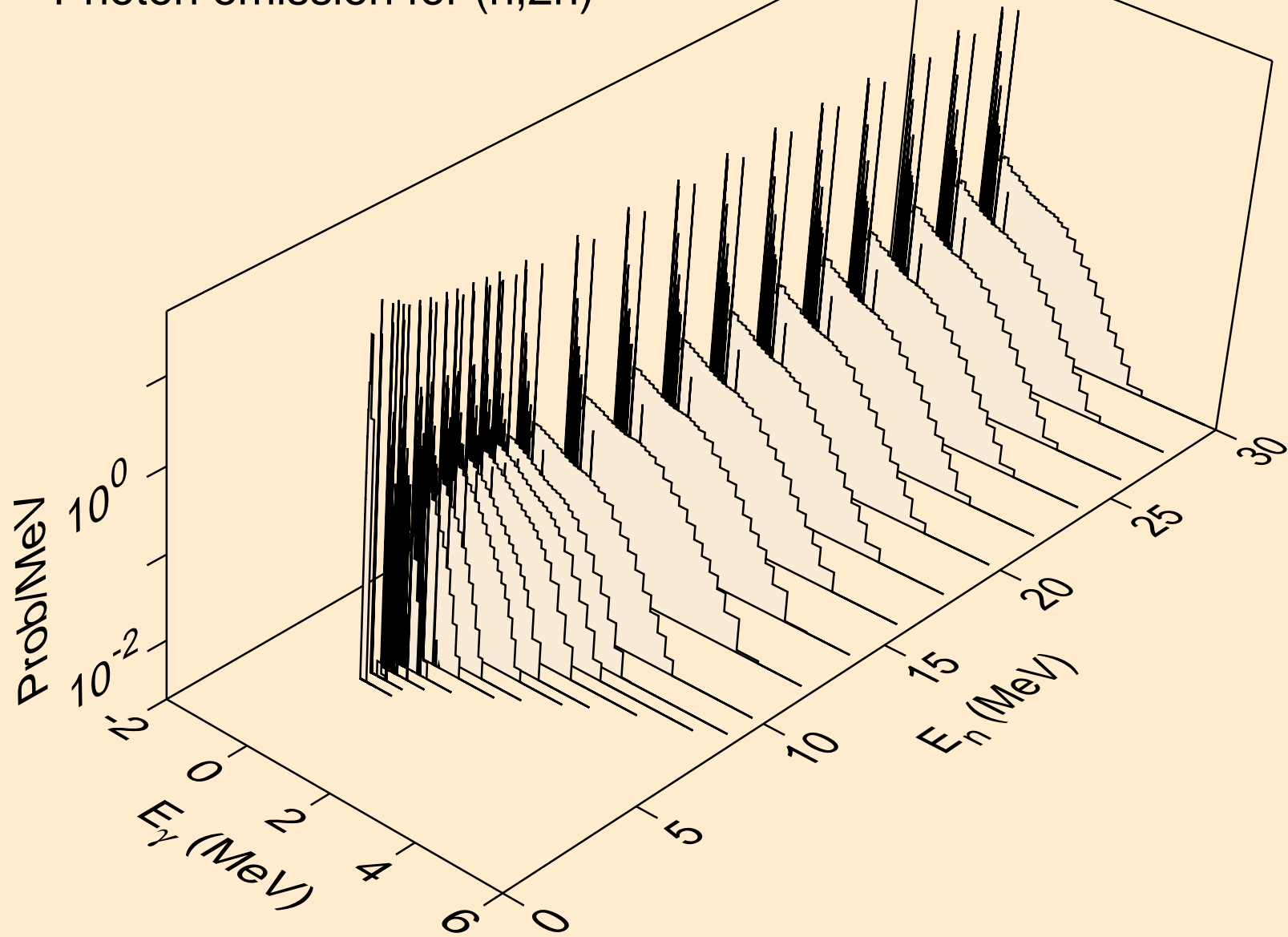
TH239 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Photon emission for (n,x)



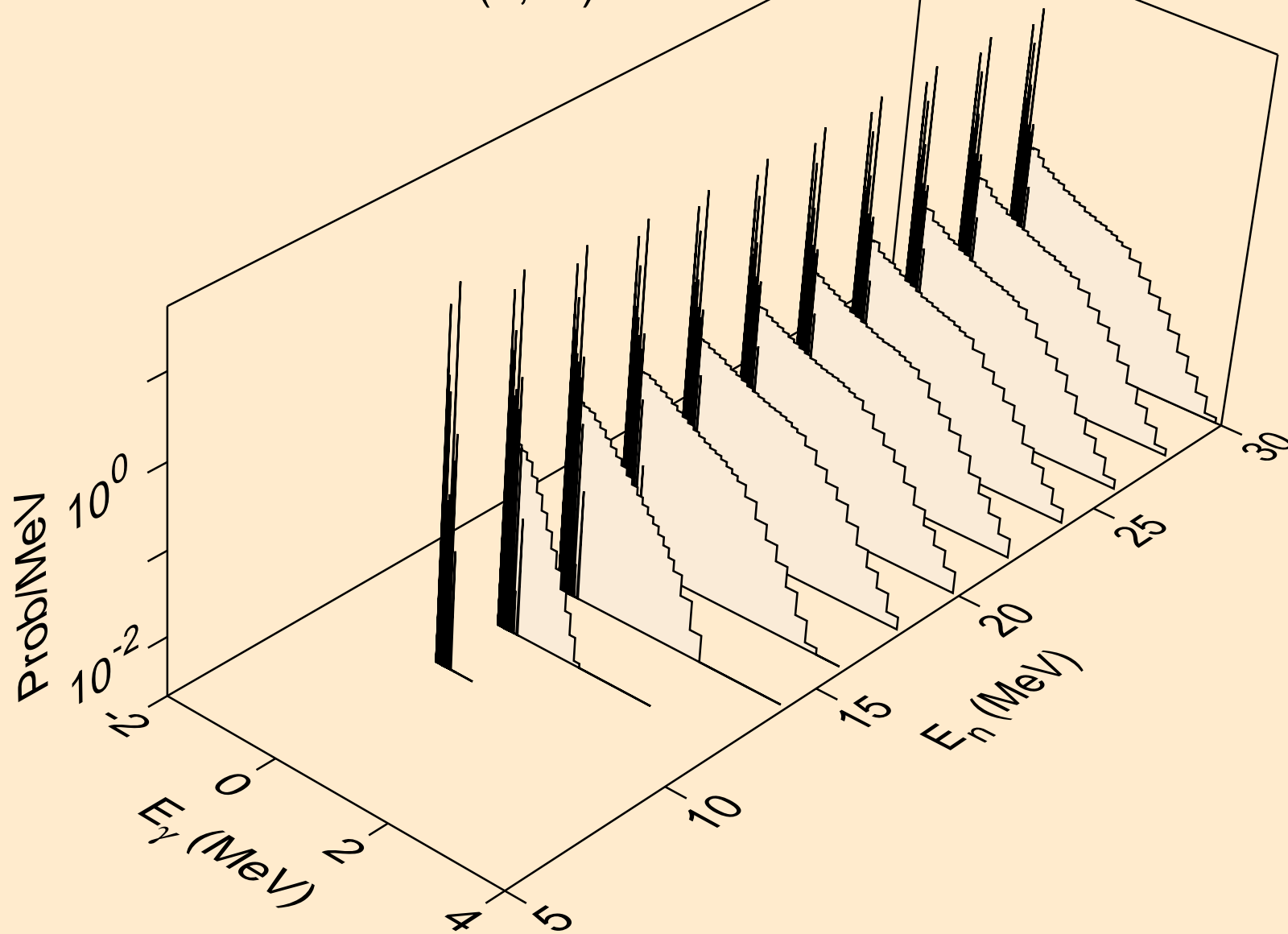
TH239 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Photon emission for (n,2nd)



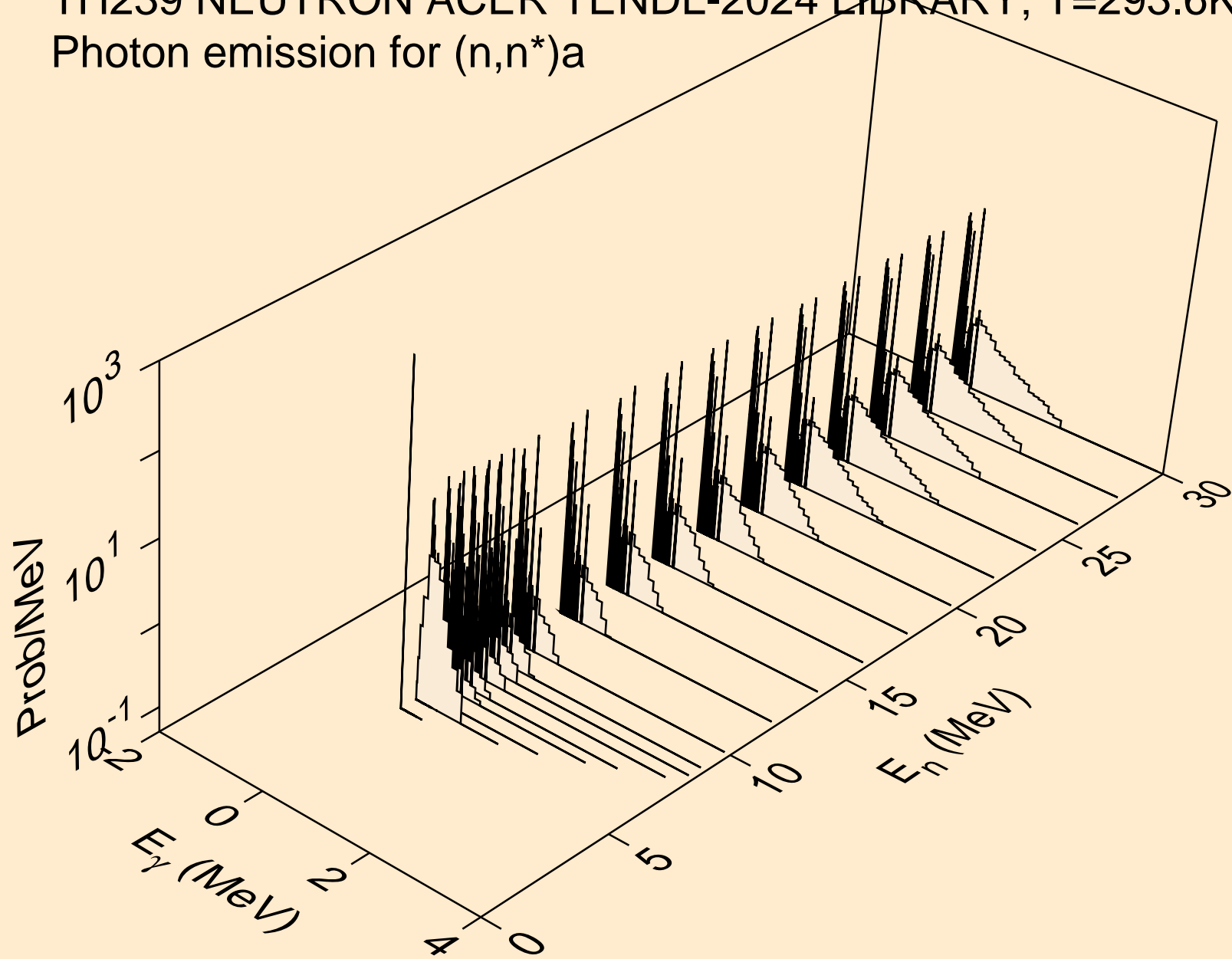
TH239 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Photon emission for (n,2n)



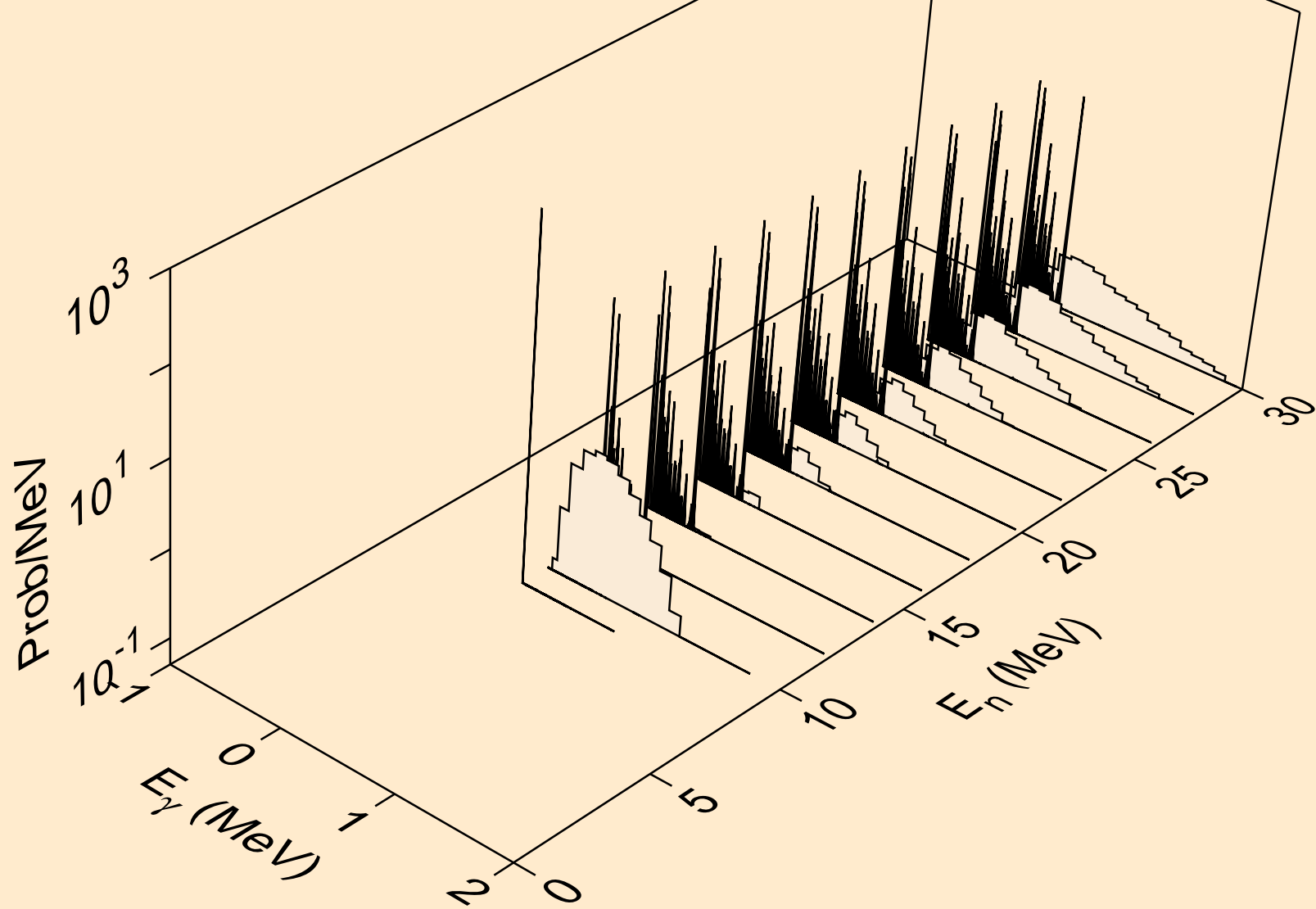
TH239 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Photon emission for (n,3n)



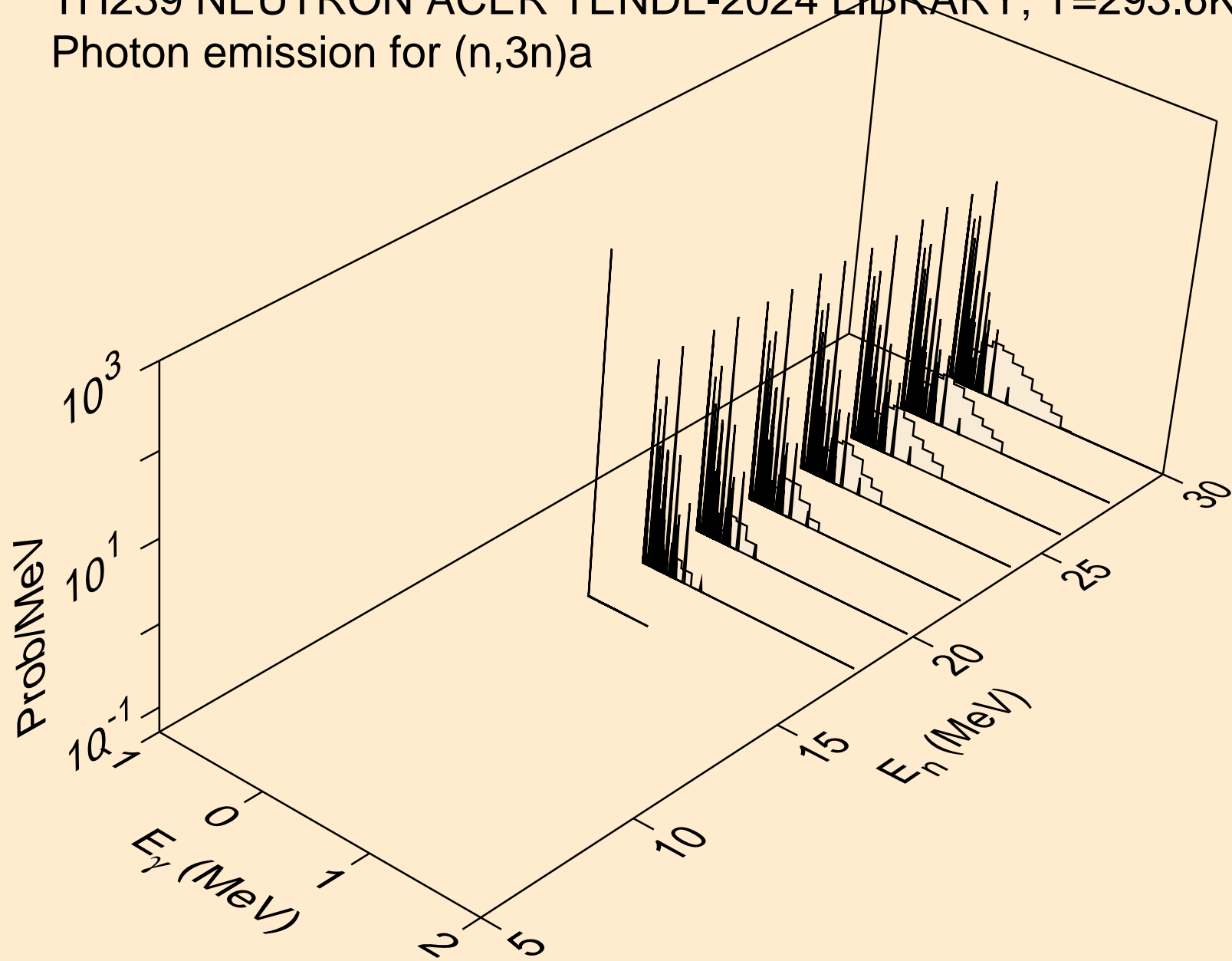
TH239 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Photon emission for (n,n\*)a



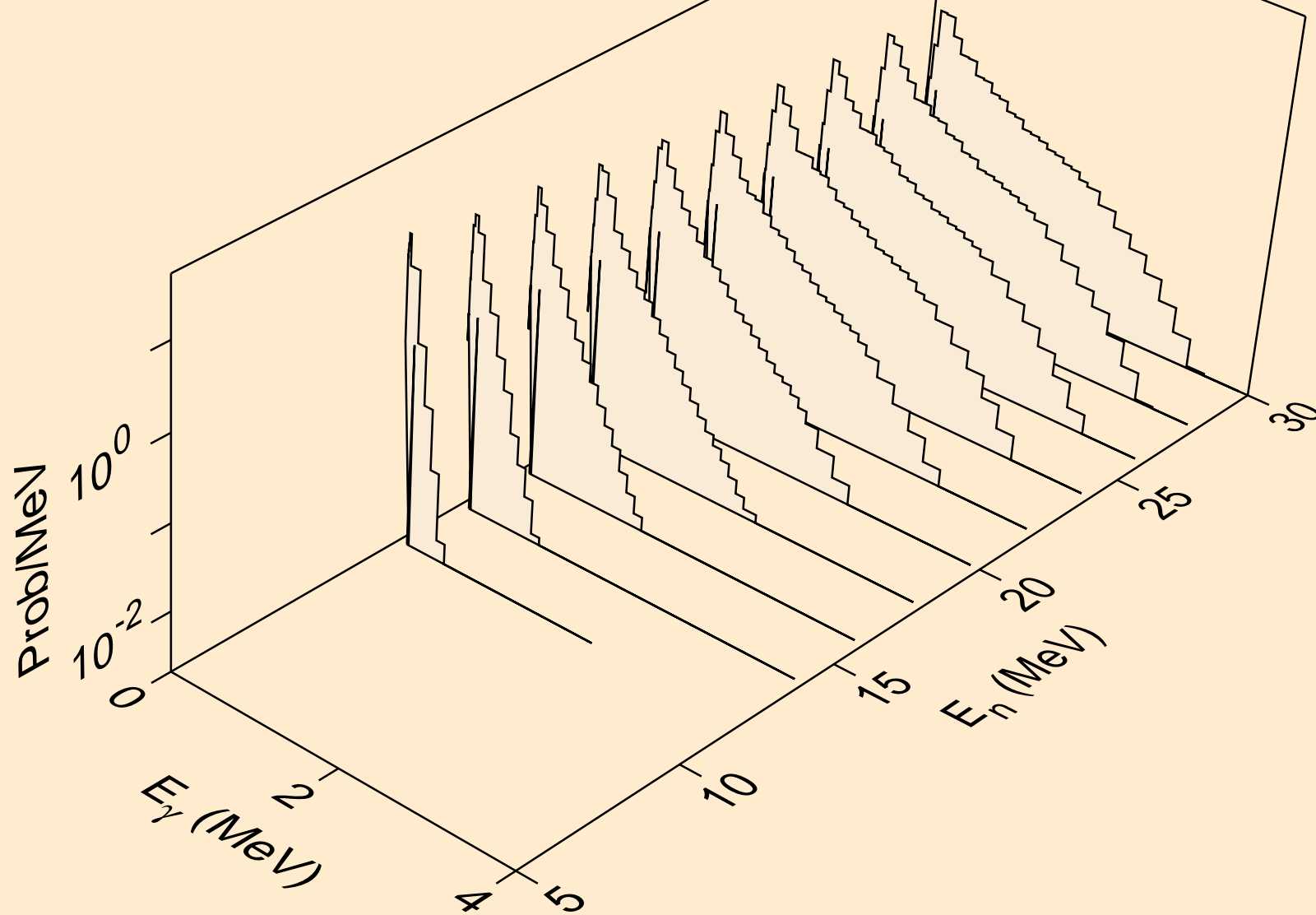
TH239 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Photon emission for (n,2n)a



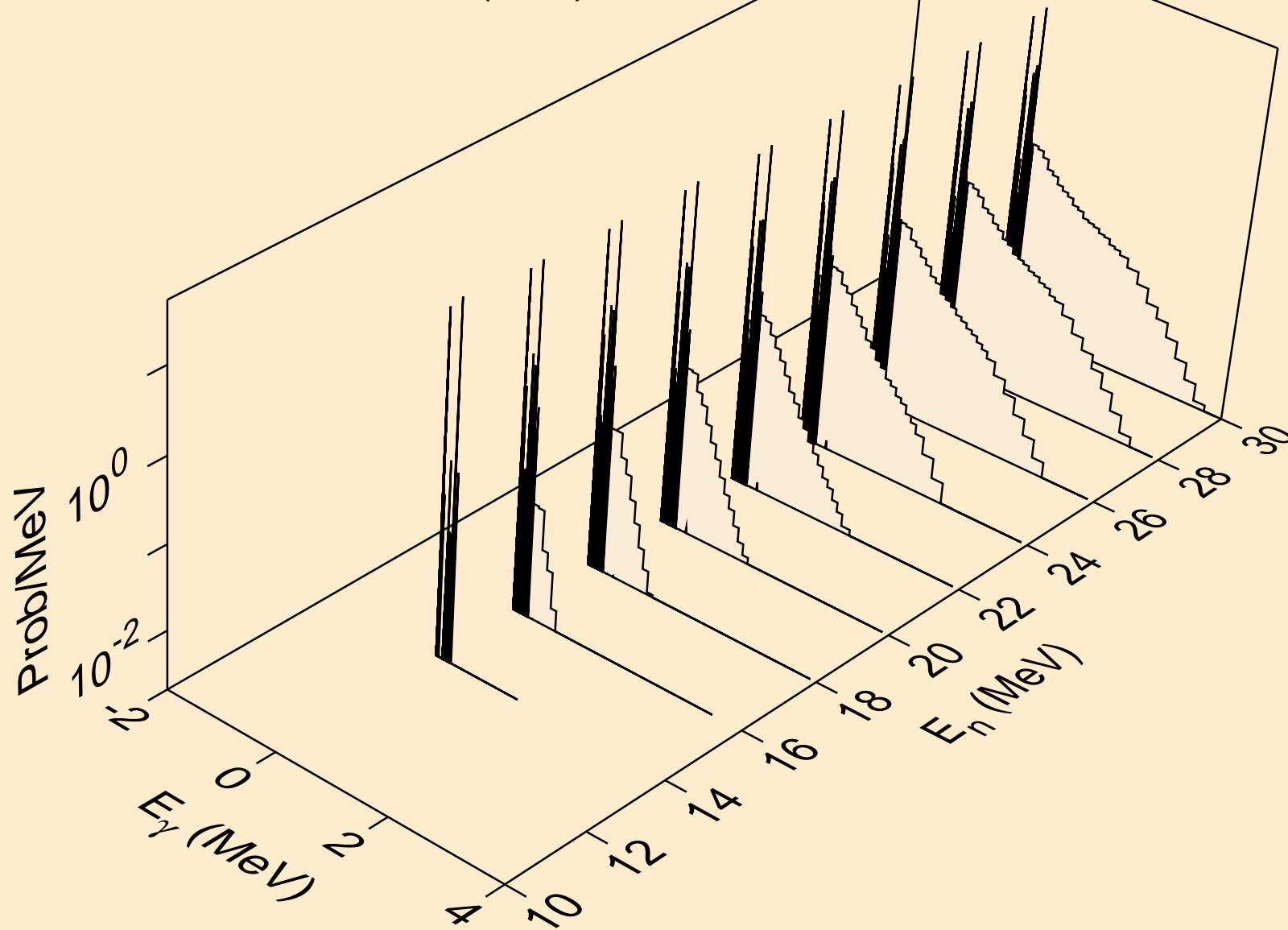
TH239 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Photon emission for (n,3n)a



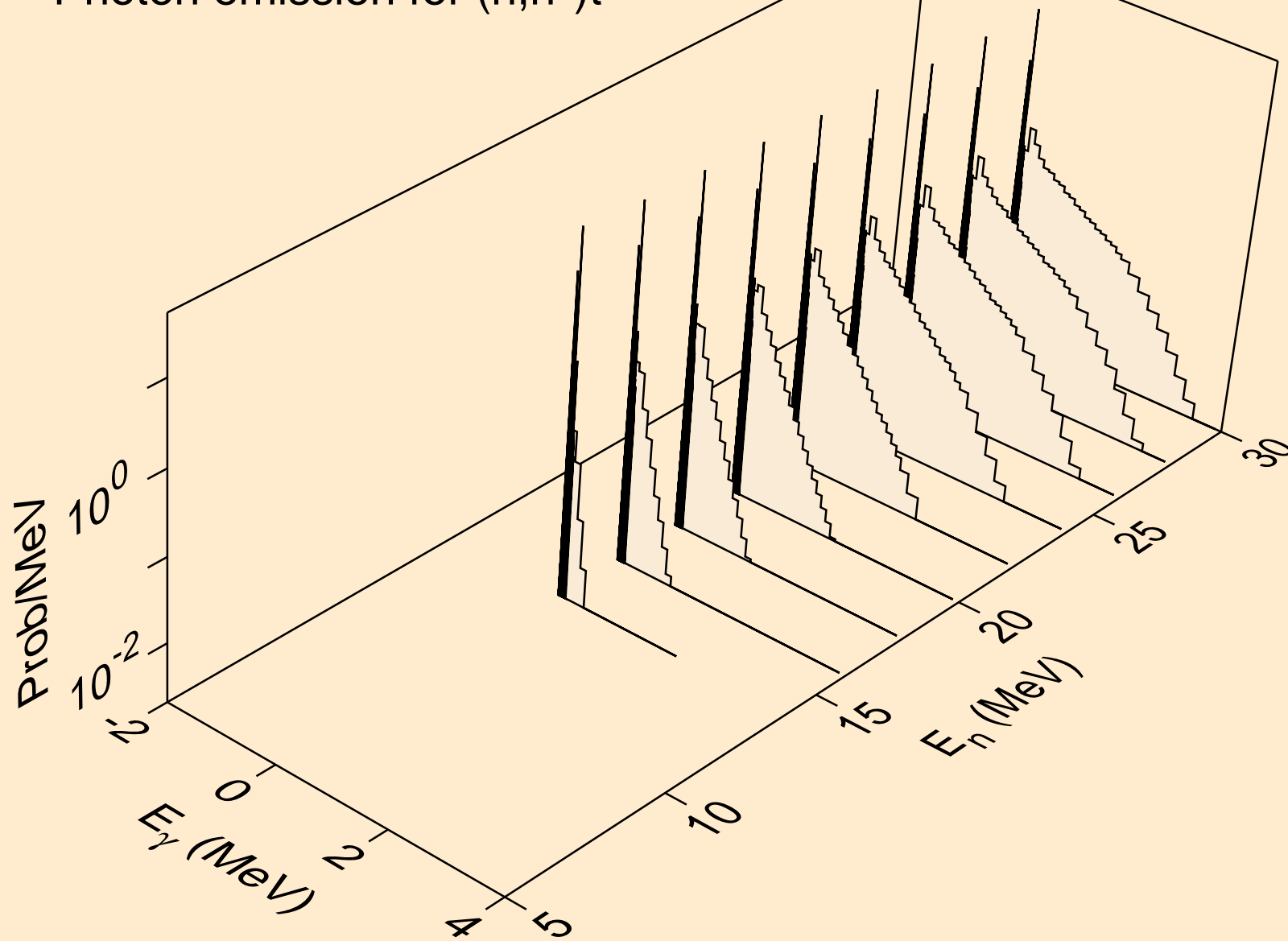
TH239 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Photon emission for (n,n\*)p



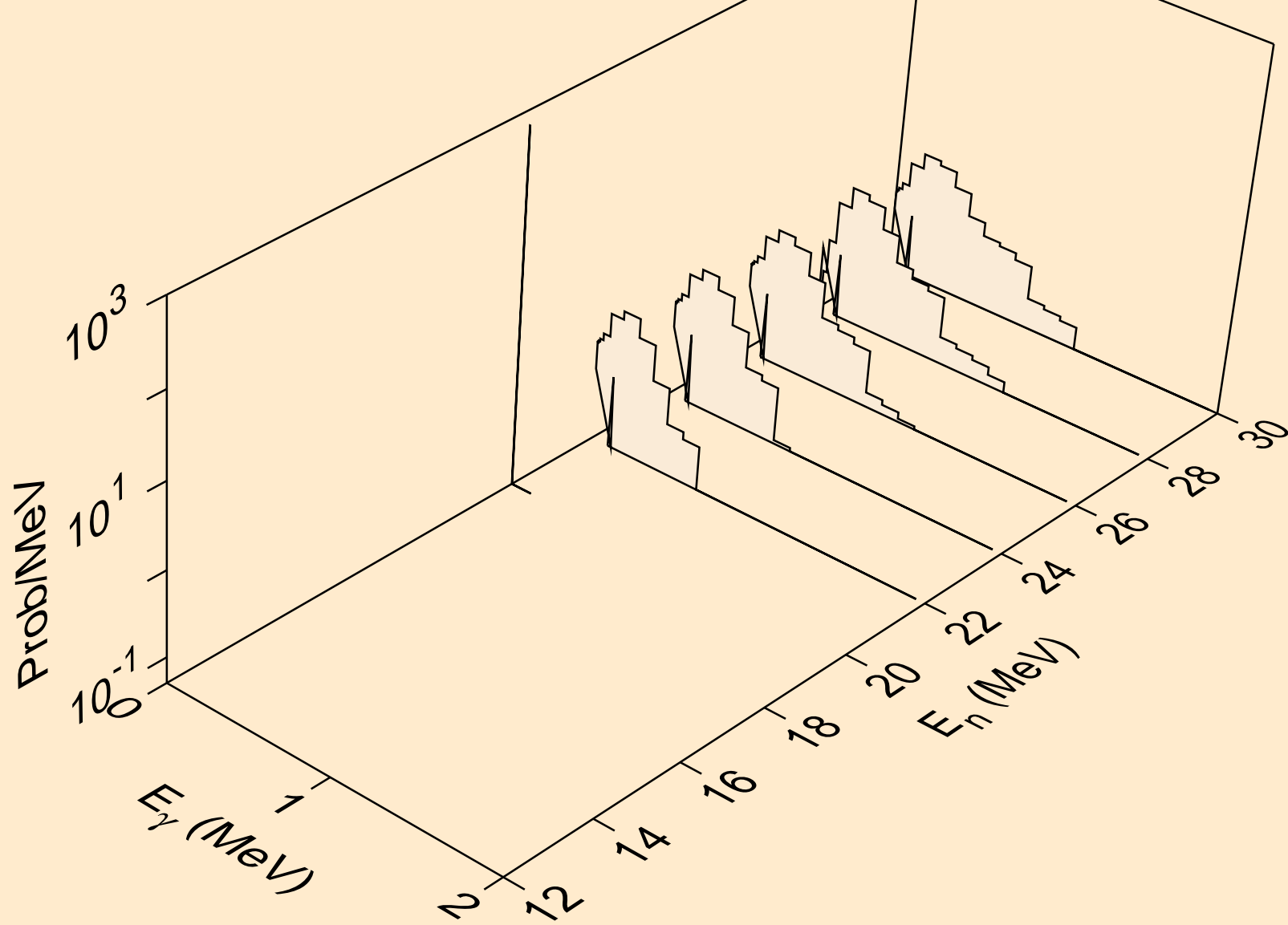
TH239 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Photon emission for (n,n\*)d



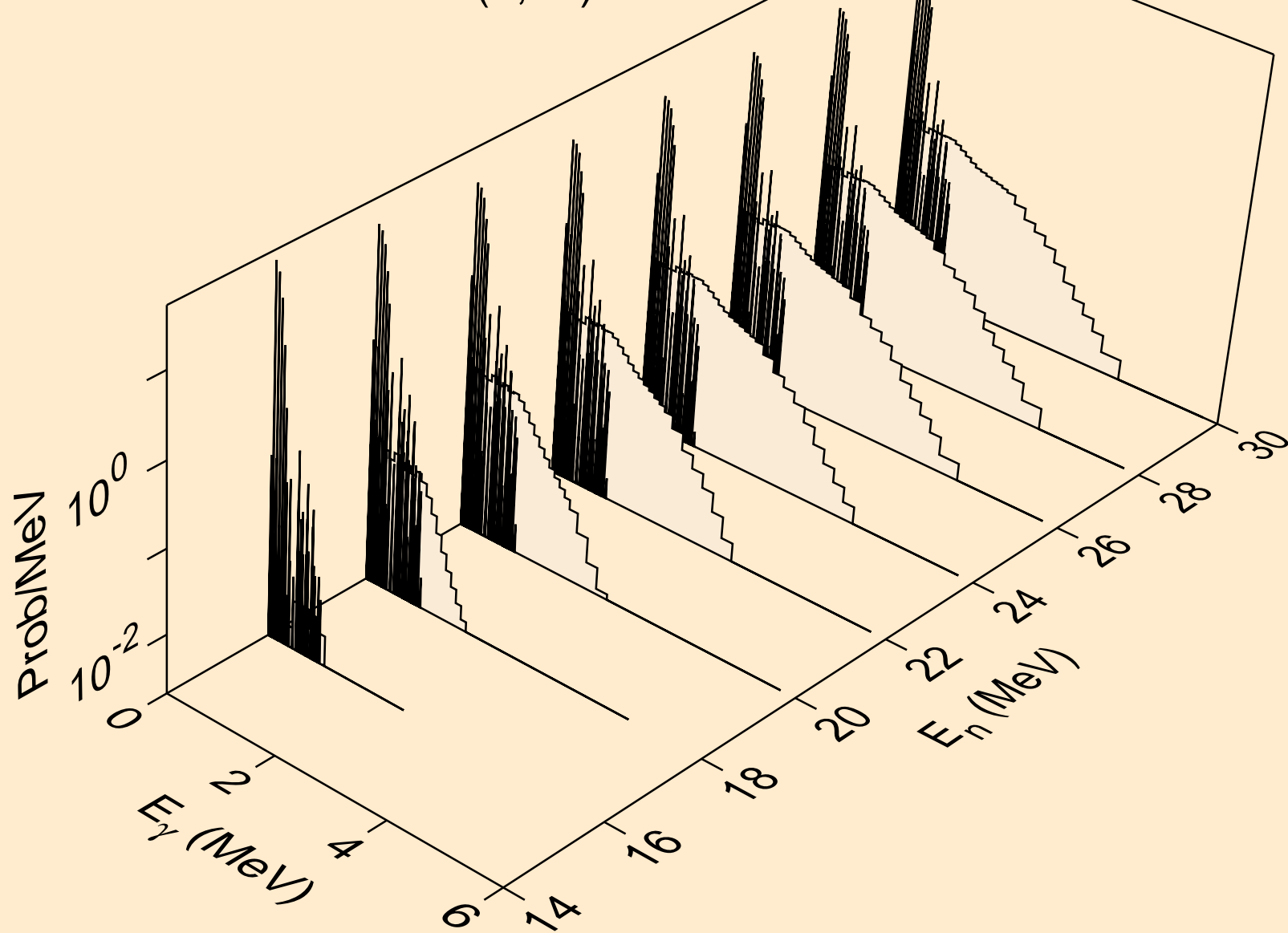
TH239 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Photon emission for (n,n\*)t



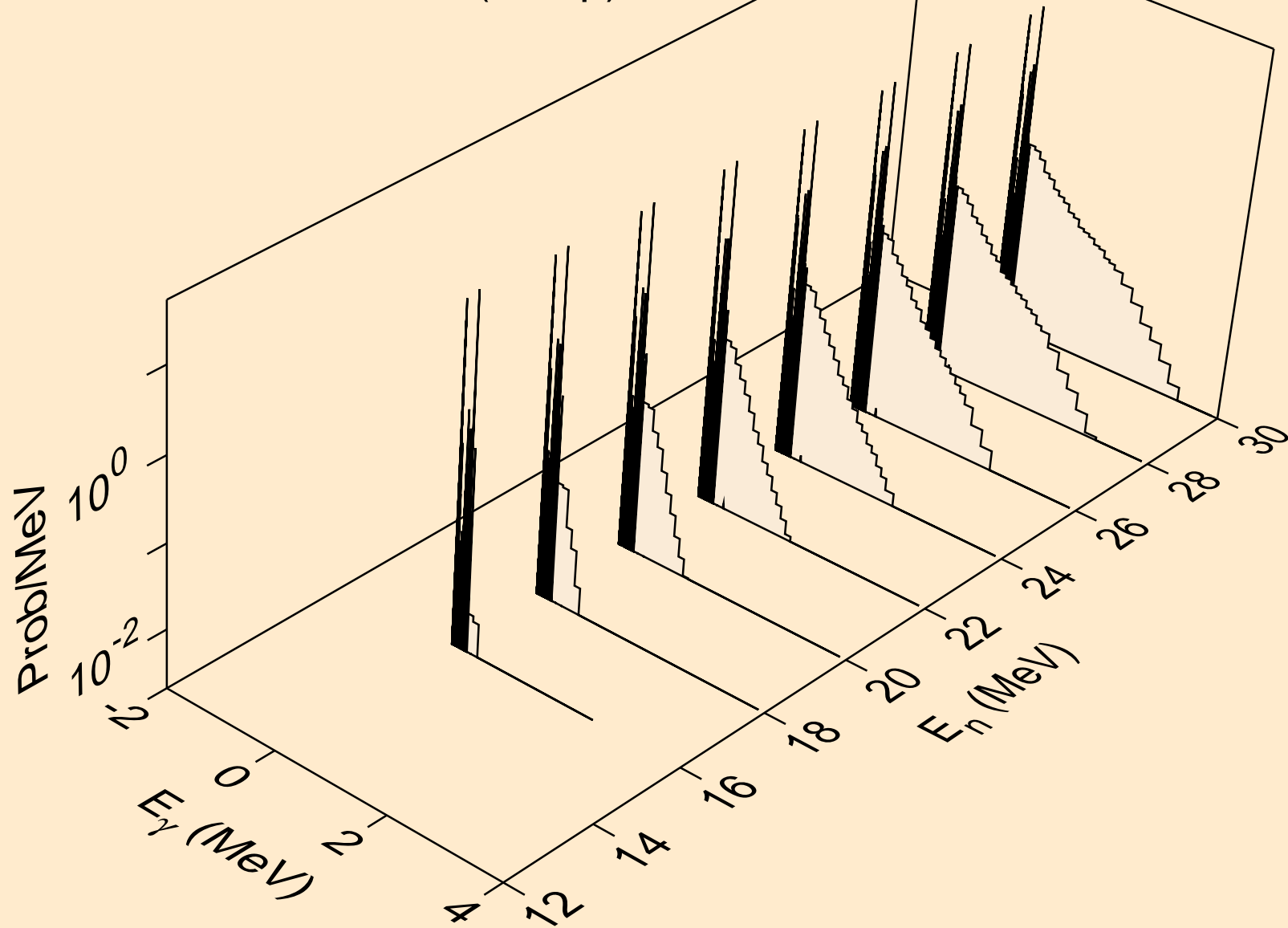
TH239 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Photon emission for (n,n\*)he3



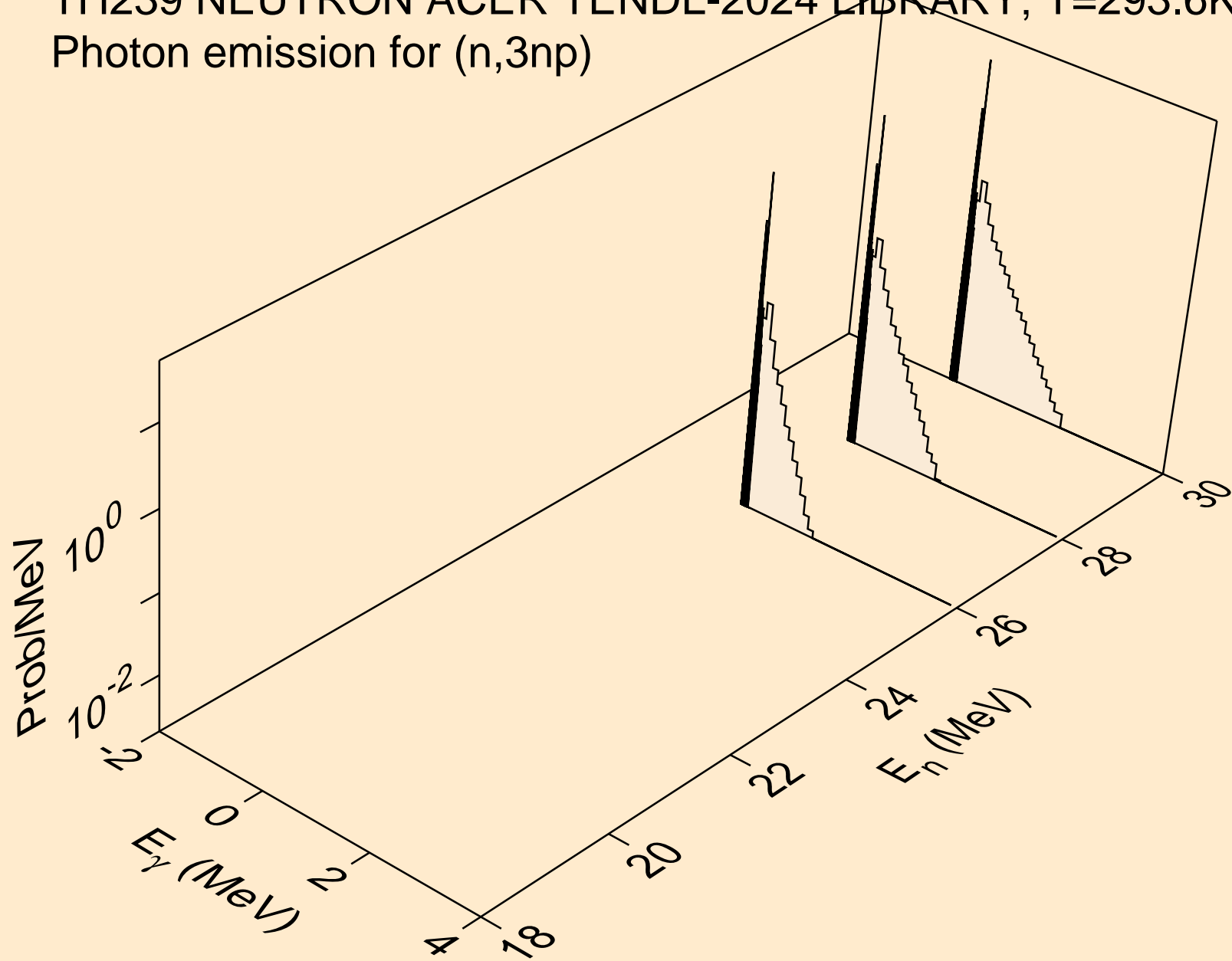
TH239 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Photon emission for (n,4n)



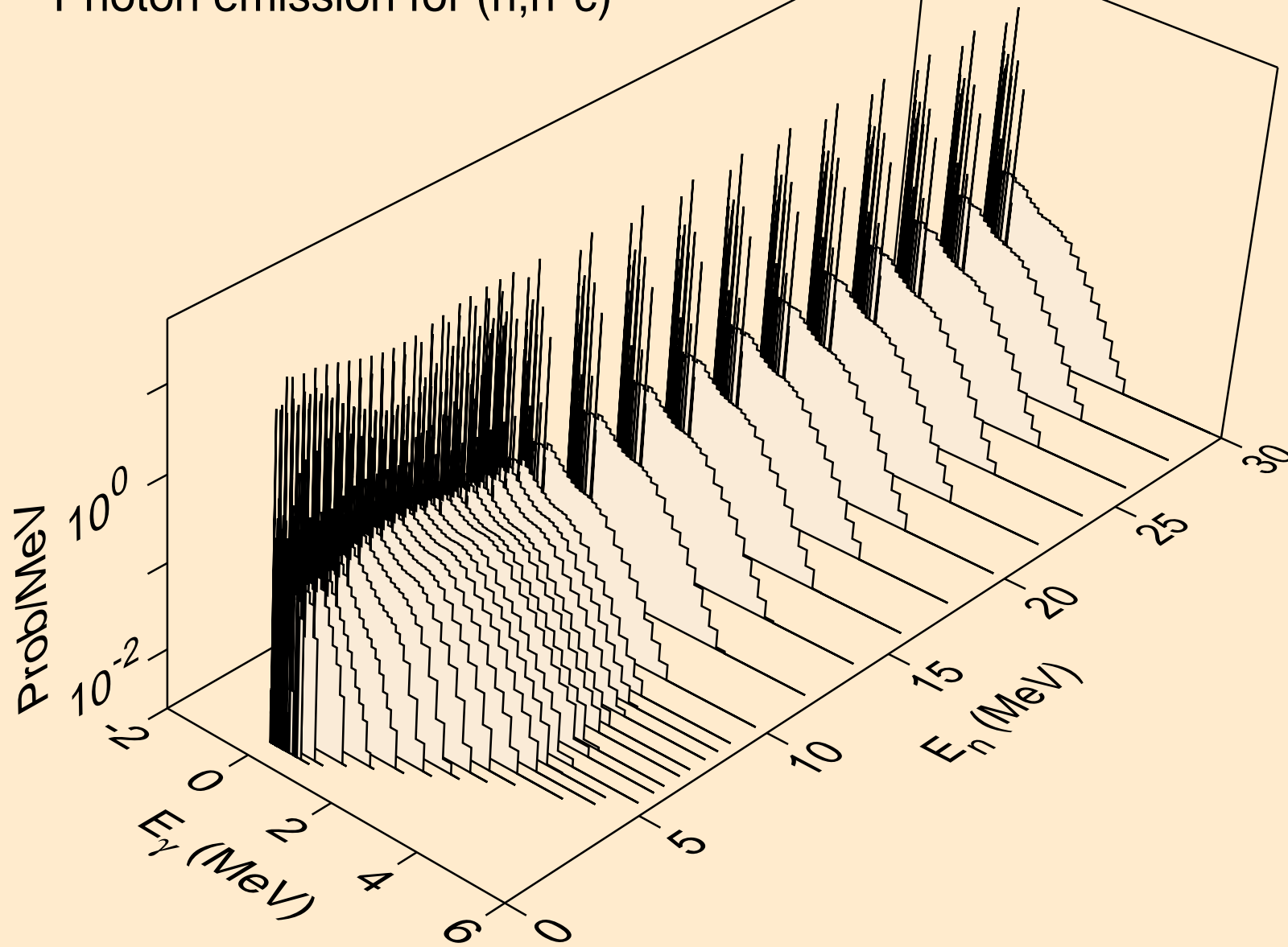
TH239 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Photon emission for (n,2np)



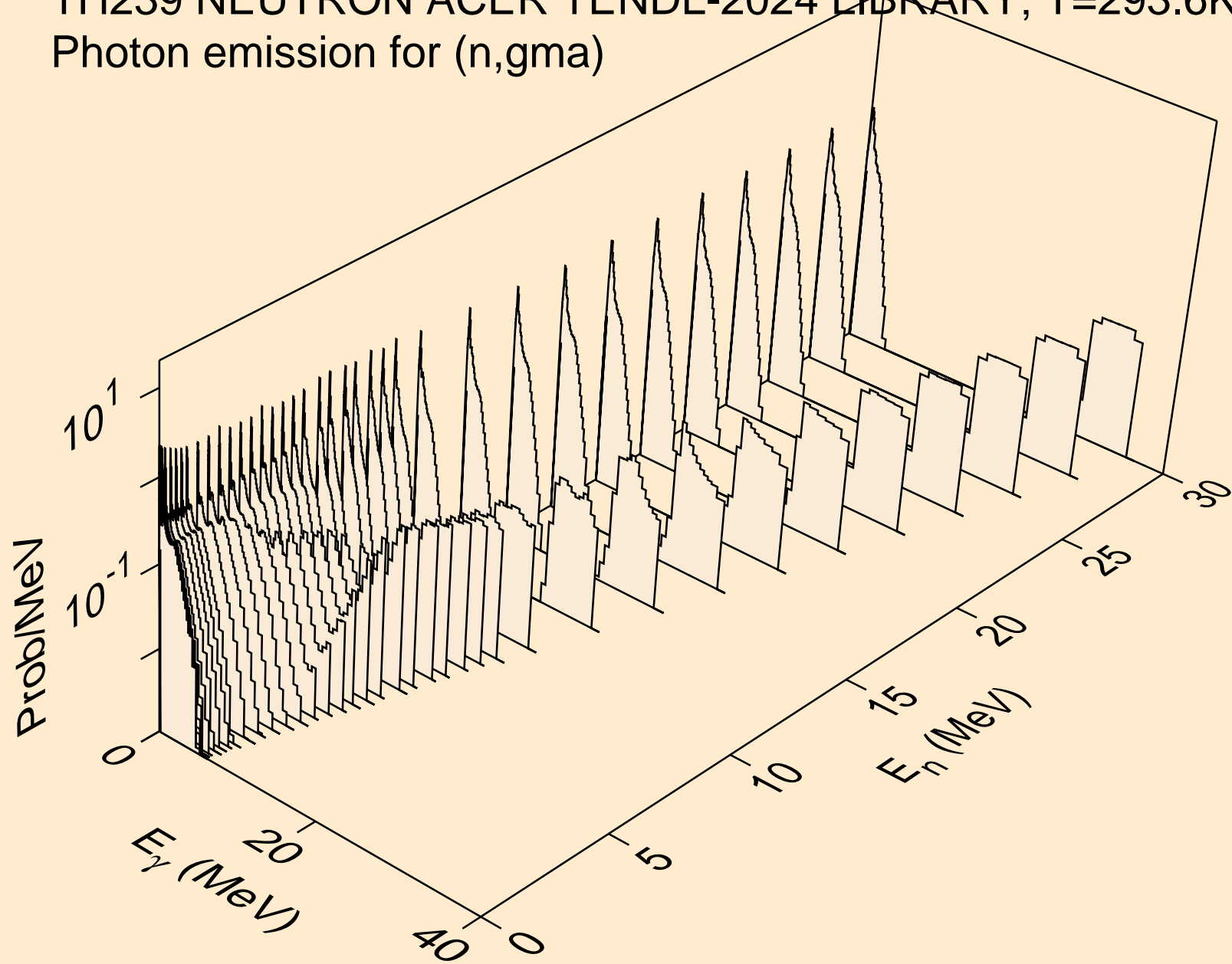
TH239 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Photon emission for (n,3np)



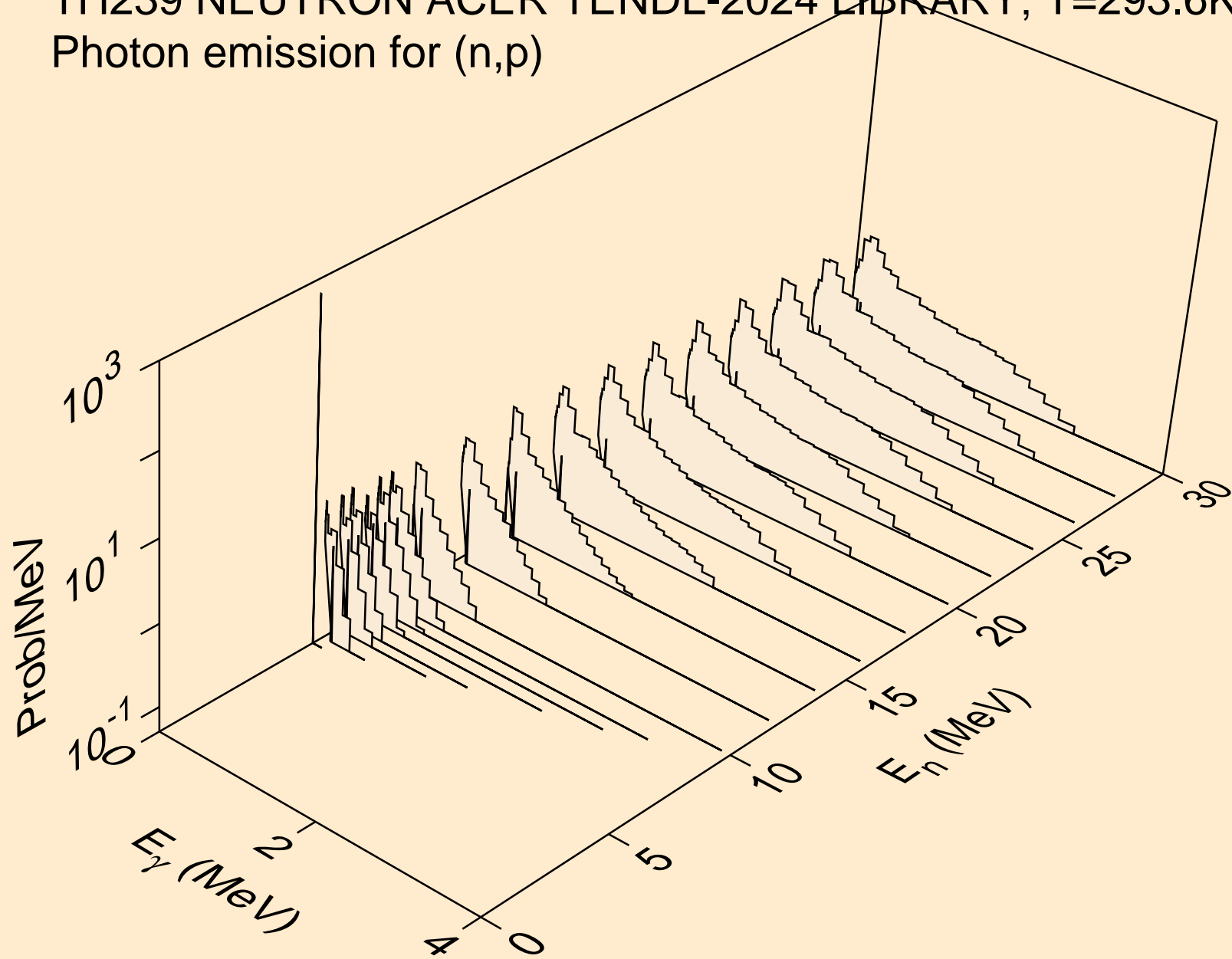
TH239 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Photon emission for (n,n\*c)



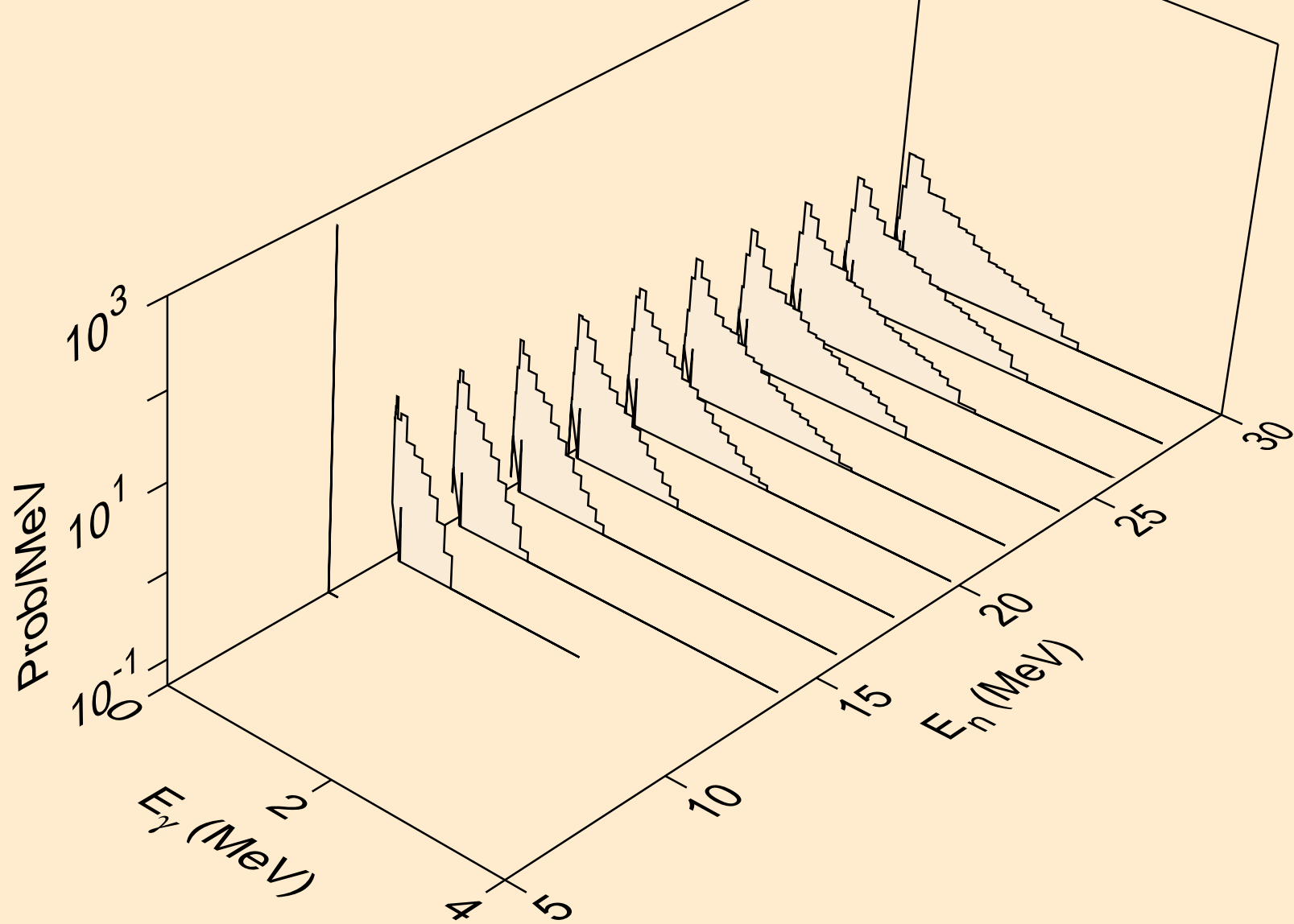
TH239 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Photon emission for (n,gma)



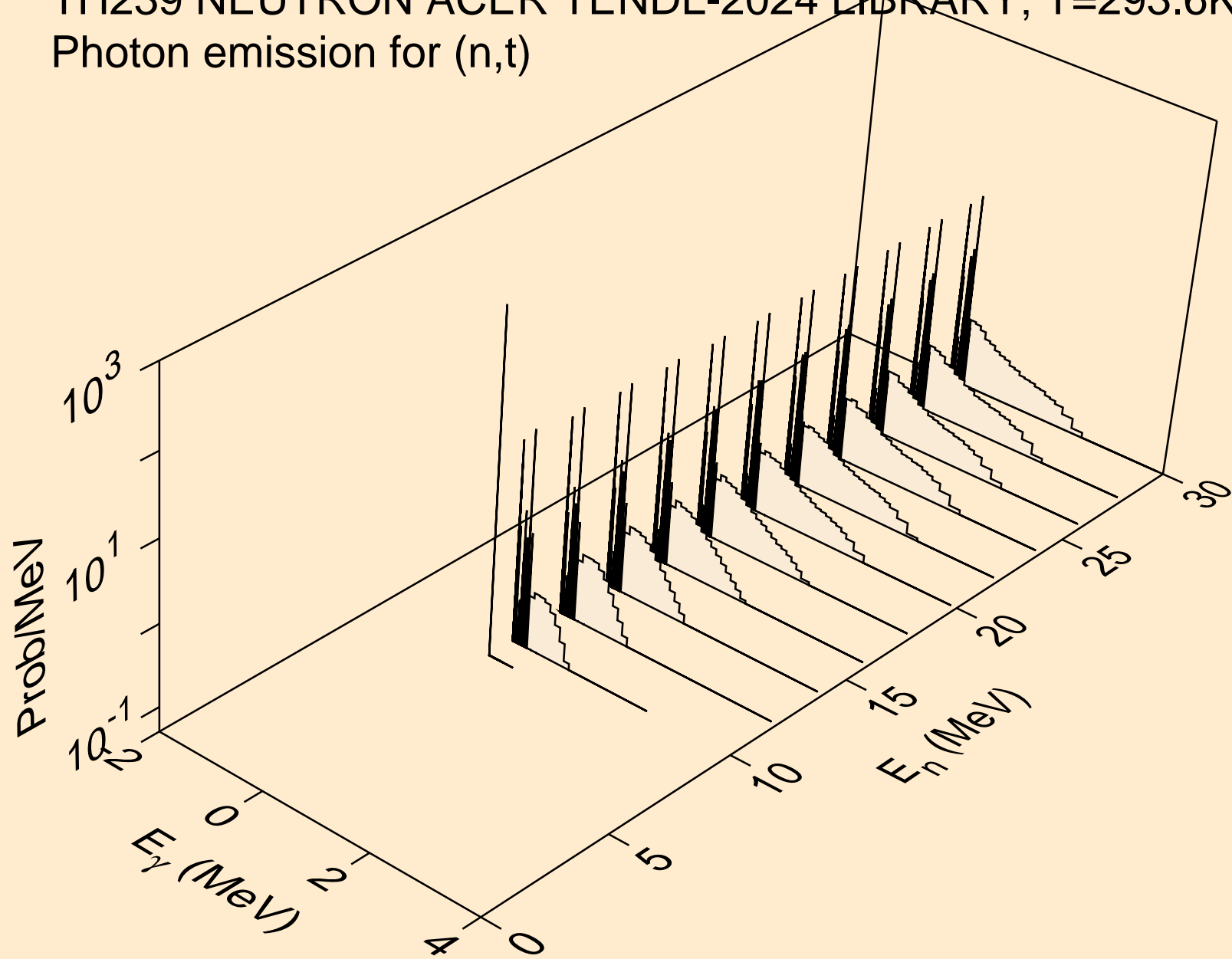
TH239 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Photon emission for (n,p)



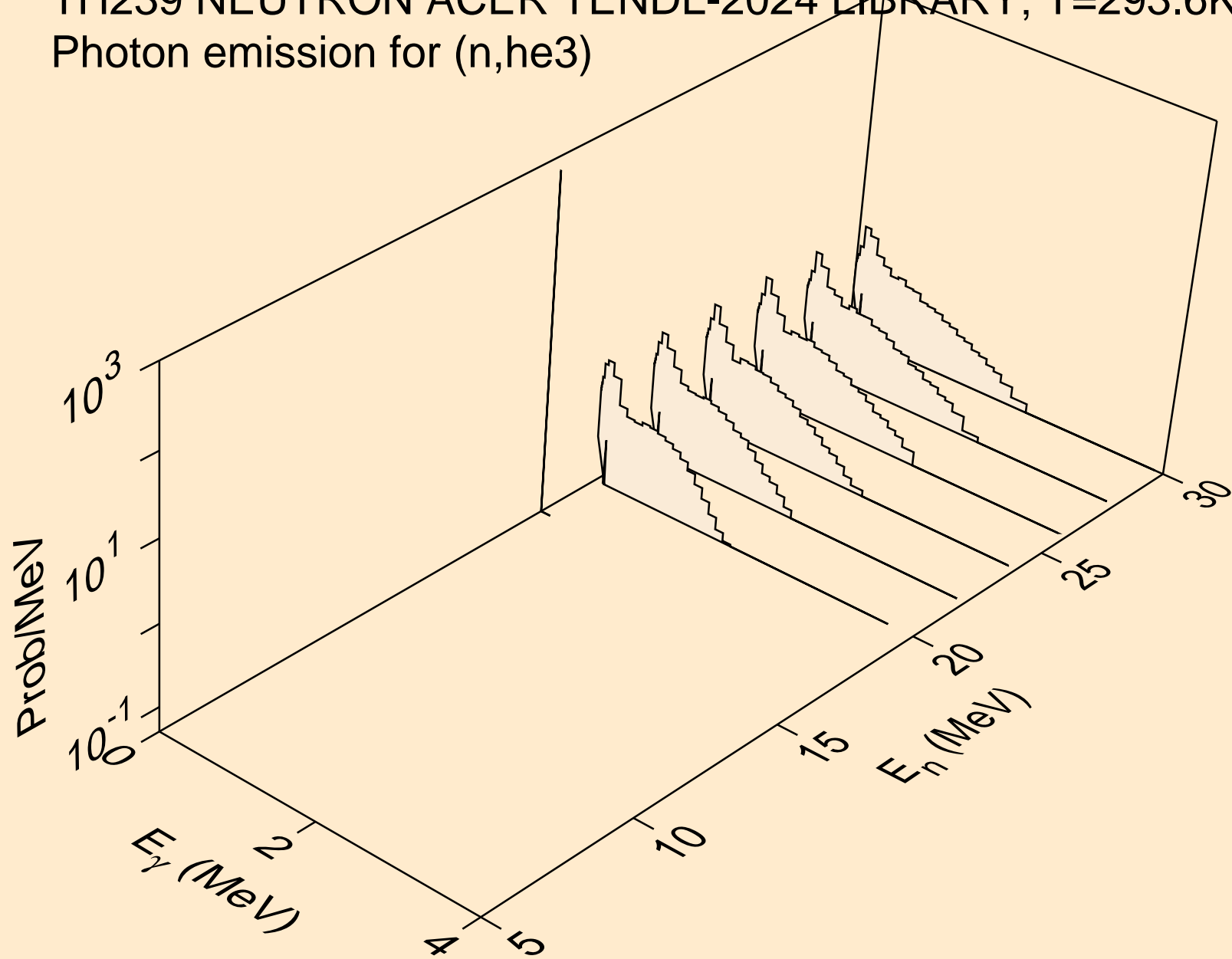
TH239 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Photon emission for (n,d)



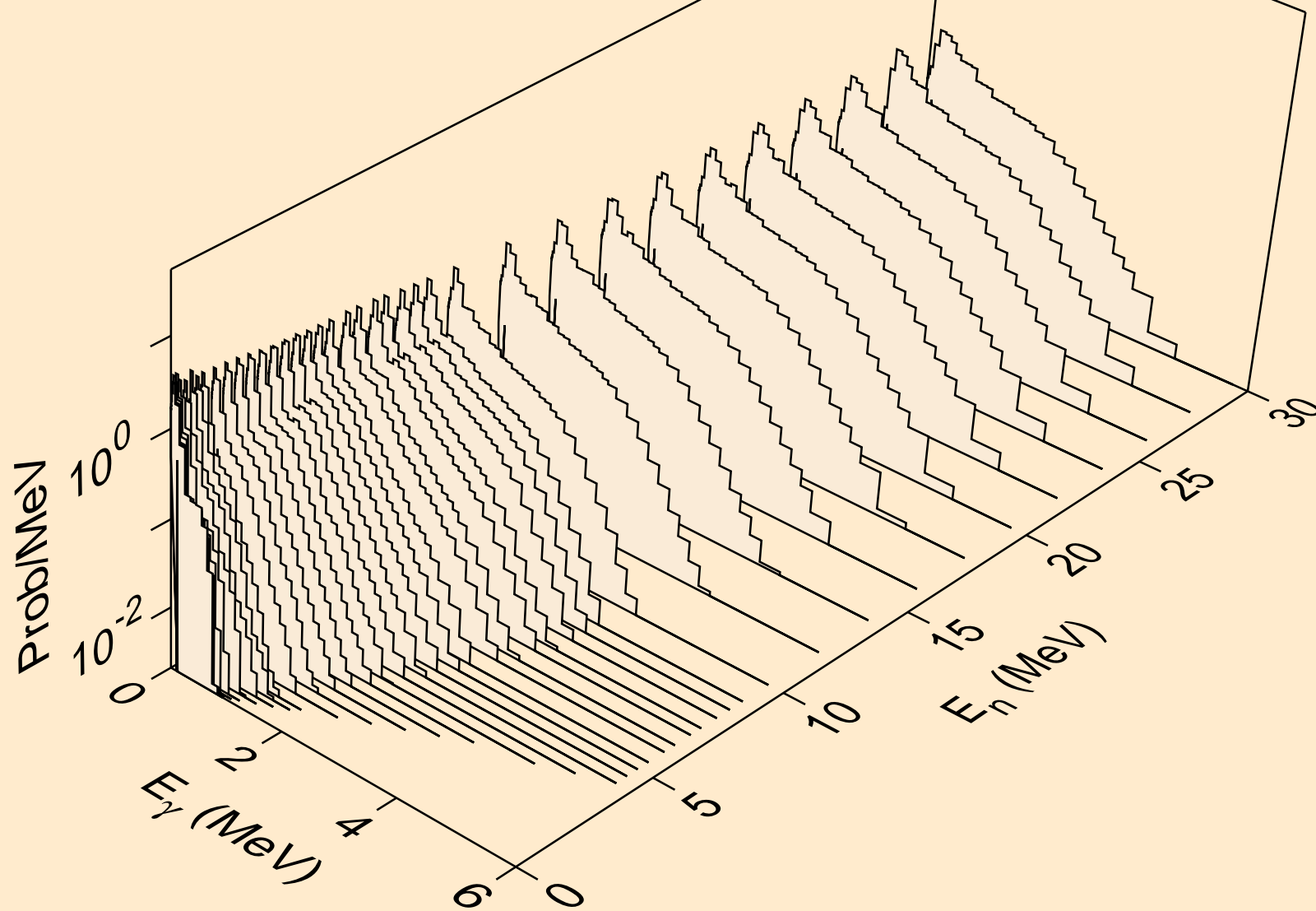
TH239 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Photon emission for (n,t)



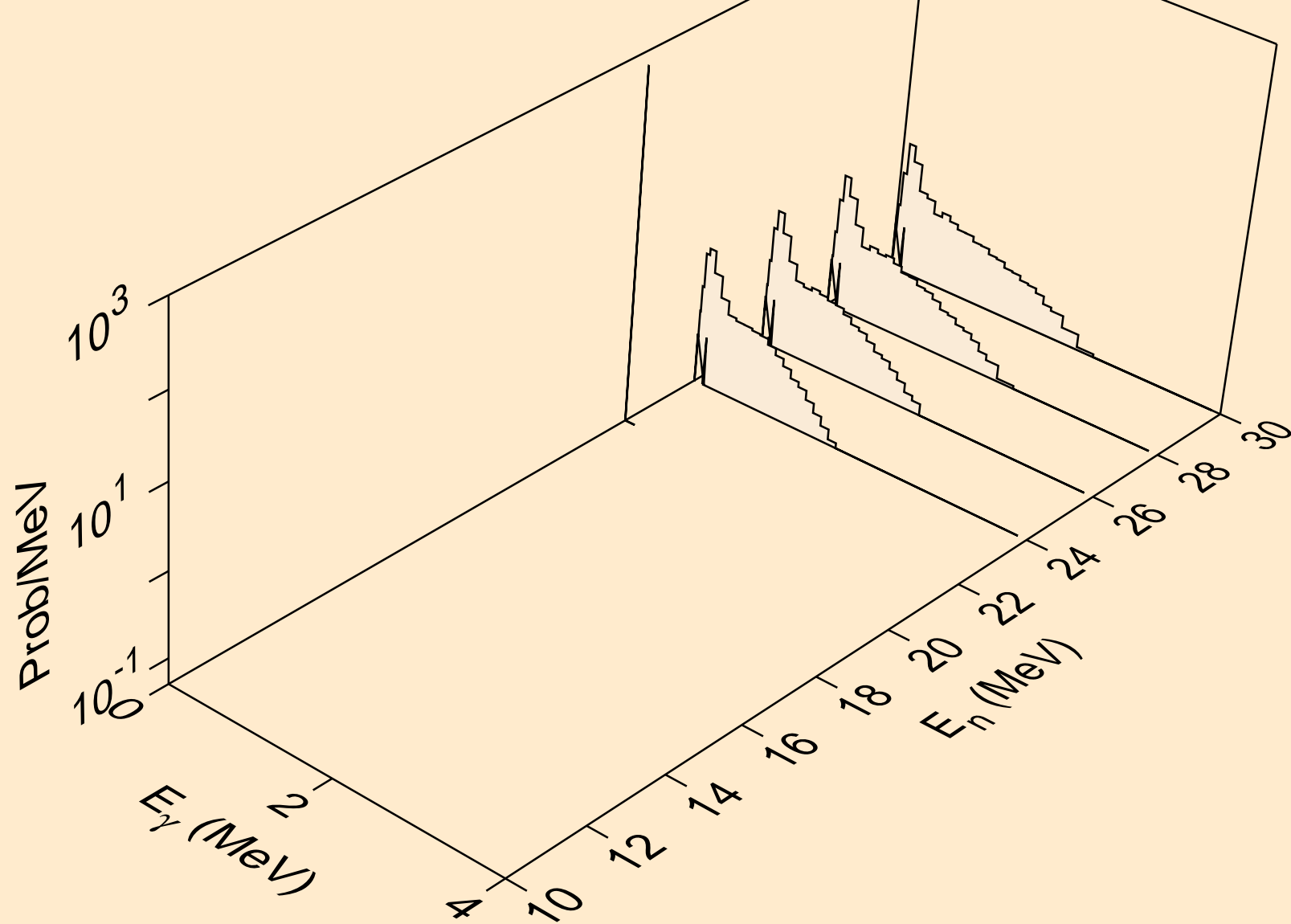
TH239 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Photon emission for (n,he3)



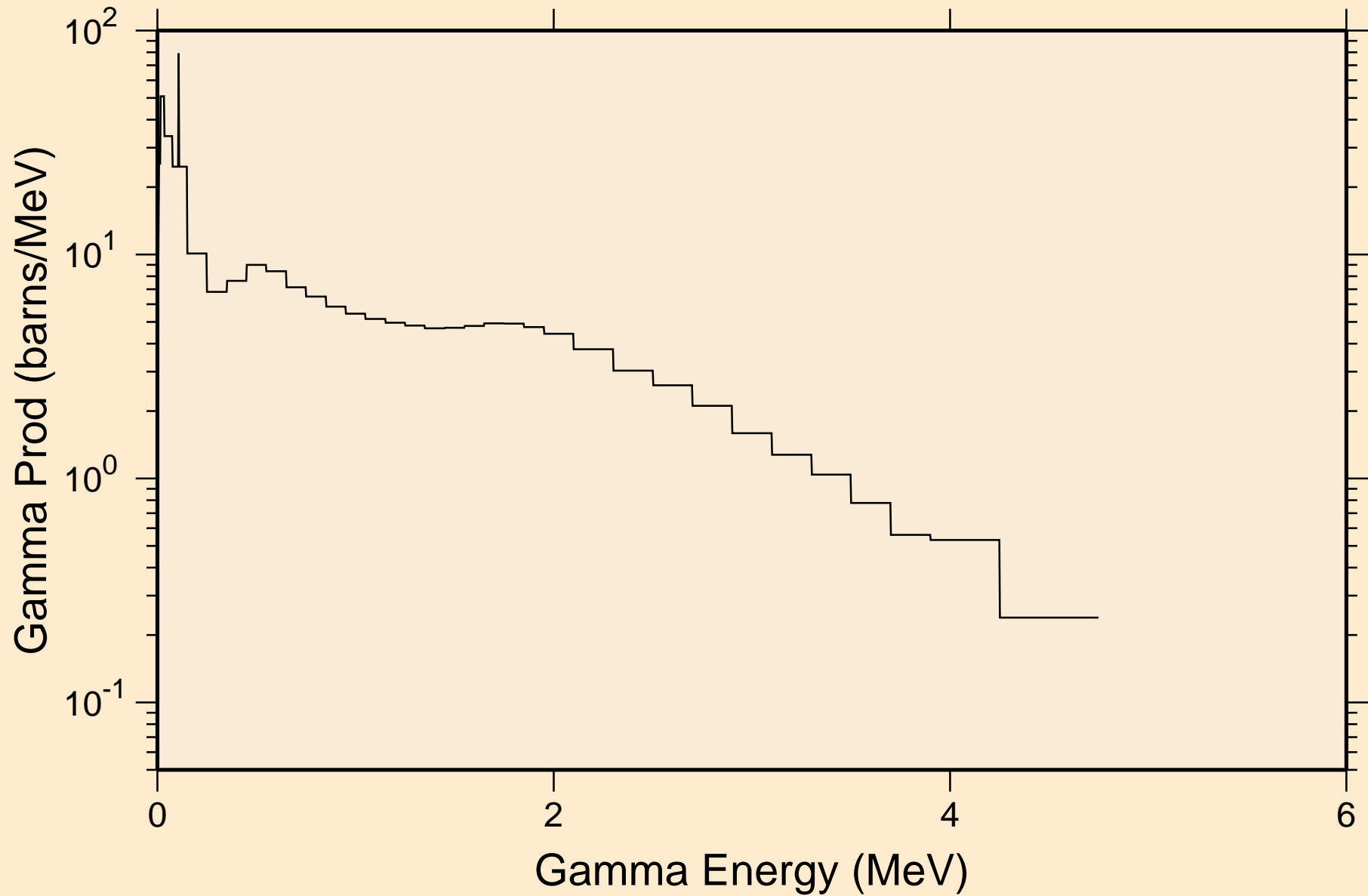
TH239 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Photon emission for (n,a)



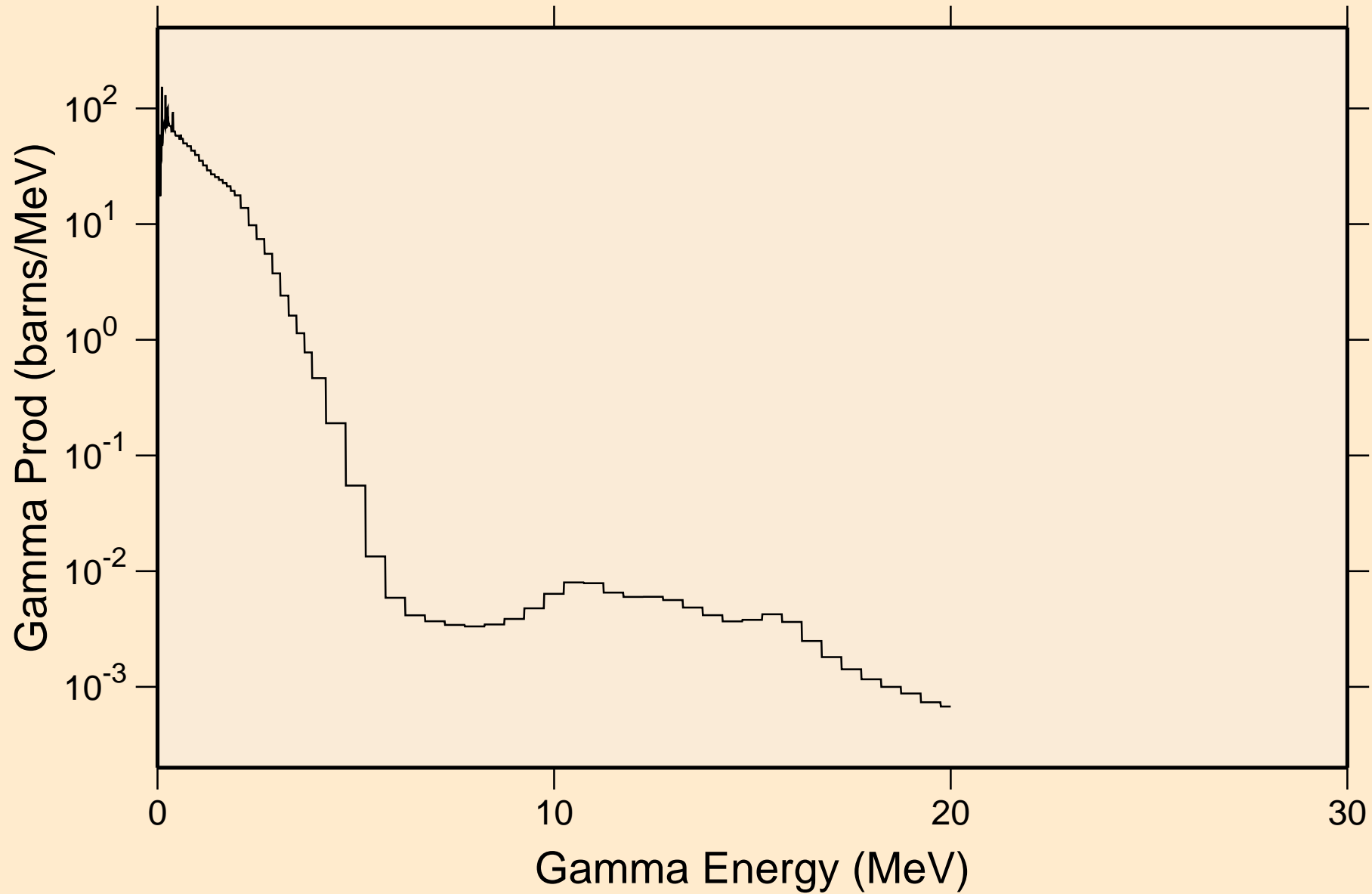
TH239 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Photon emission for (n,2p)



TH239 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
thermal capture photon spectrum

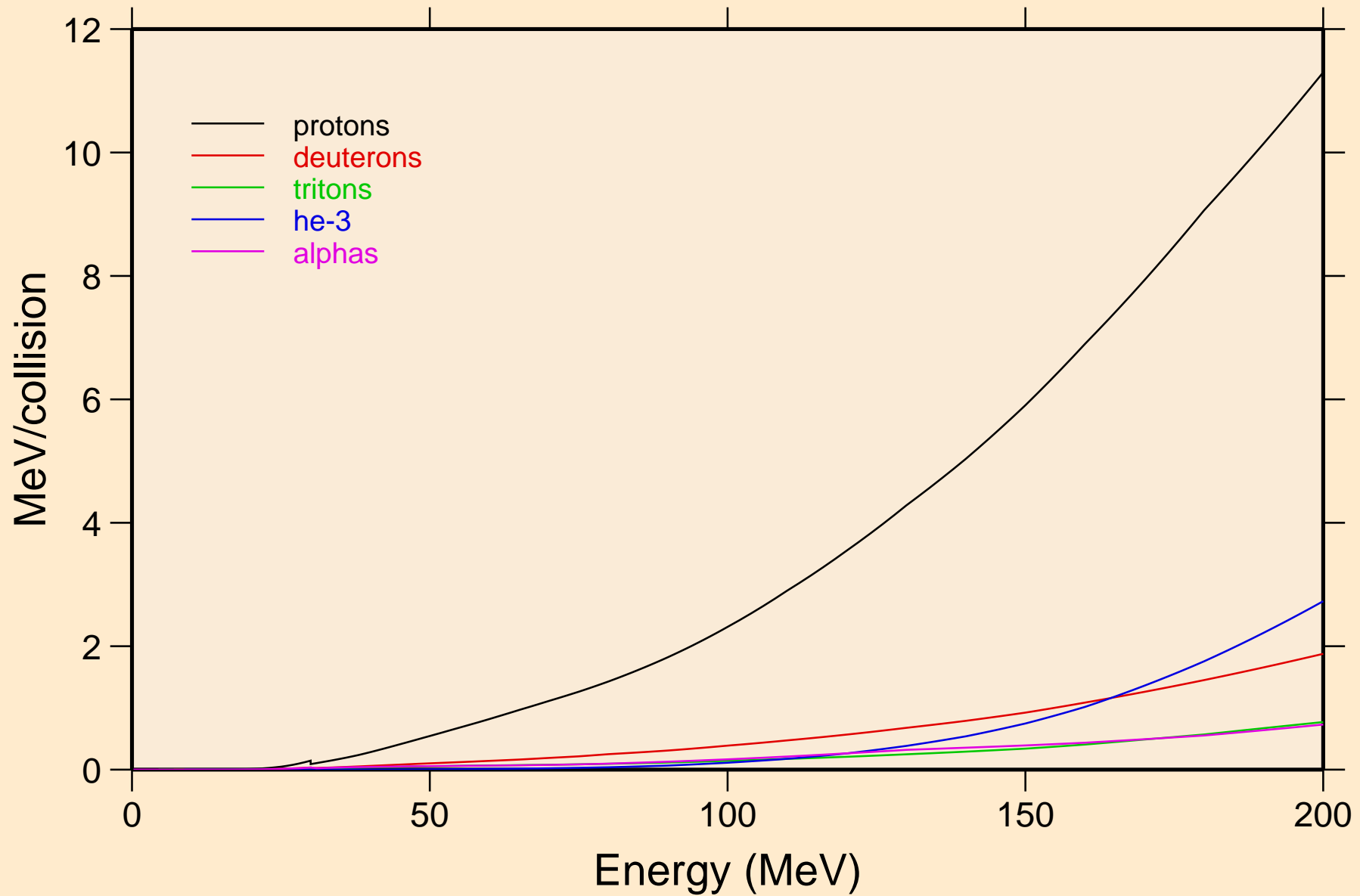


TH239 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
14 MeV photon spectrum

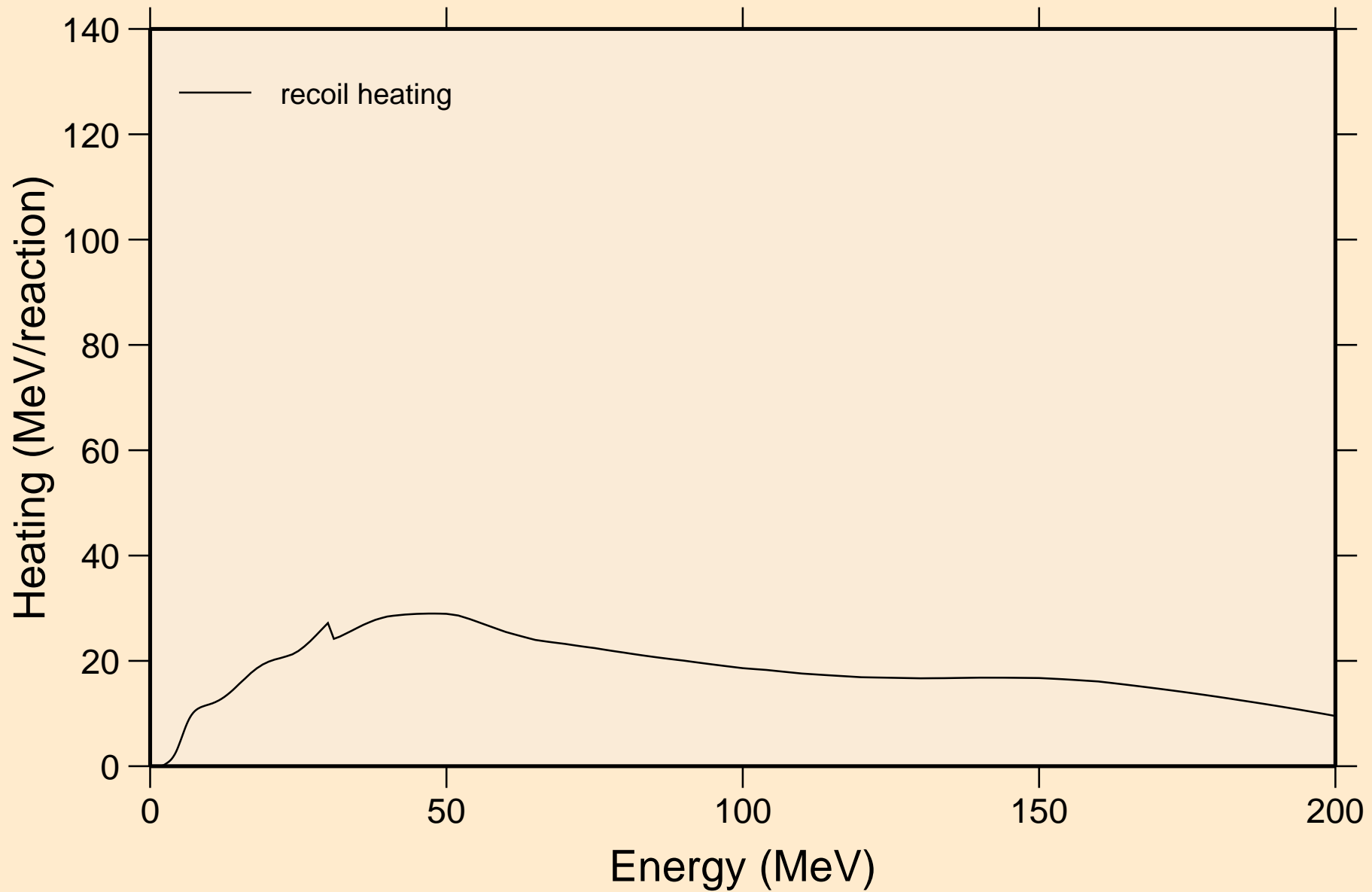


# TH239 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K

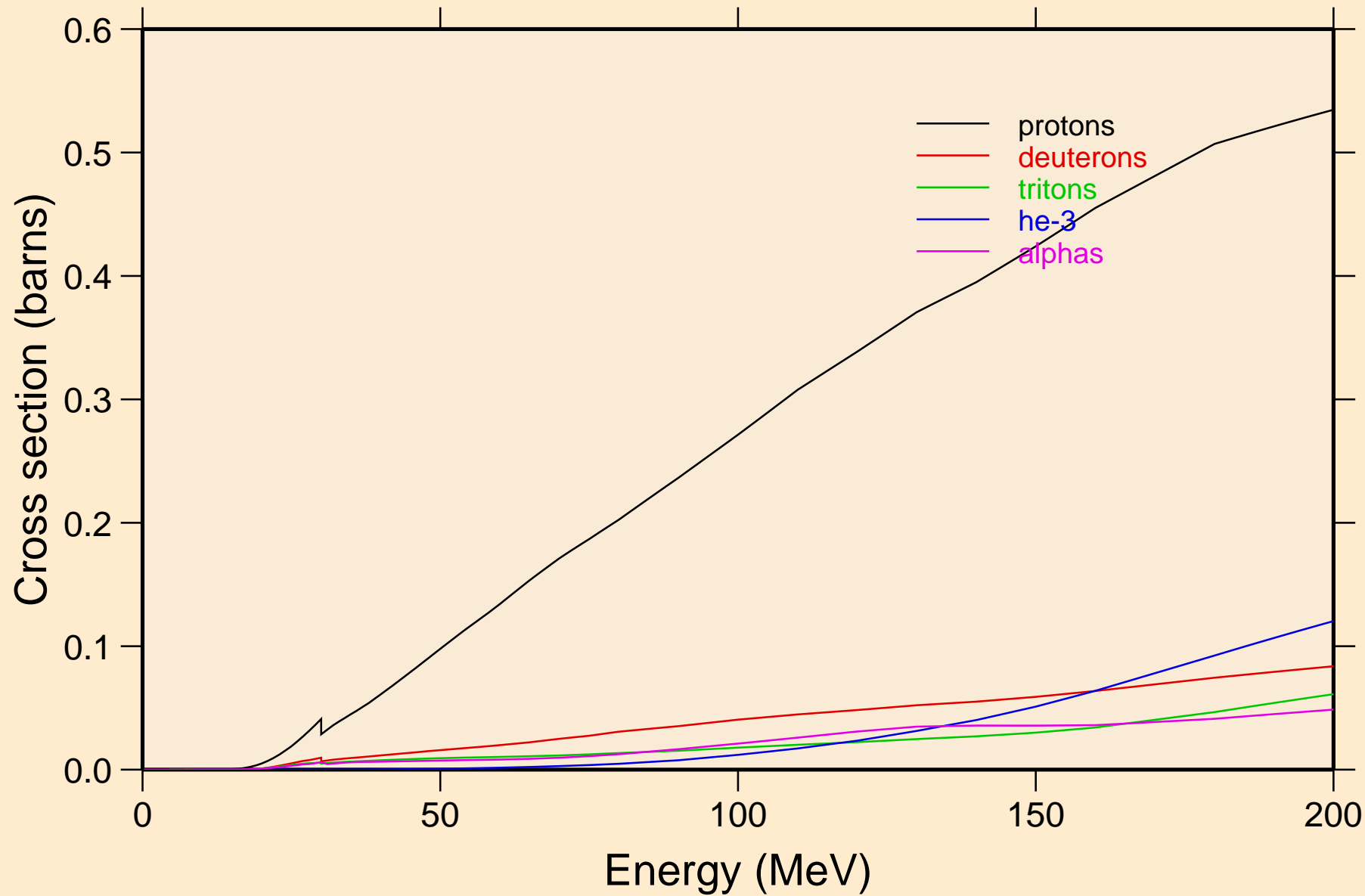
## Particle heating contributions



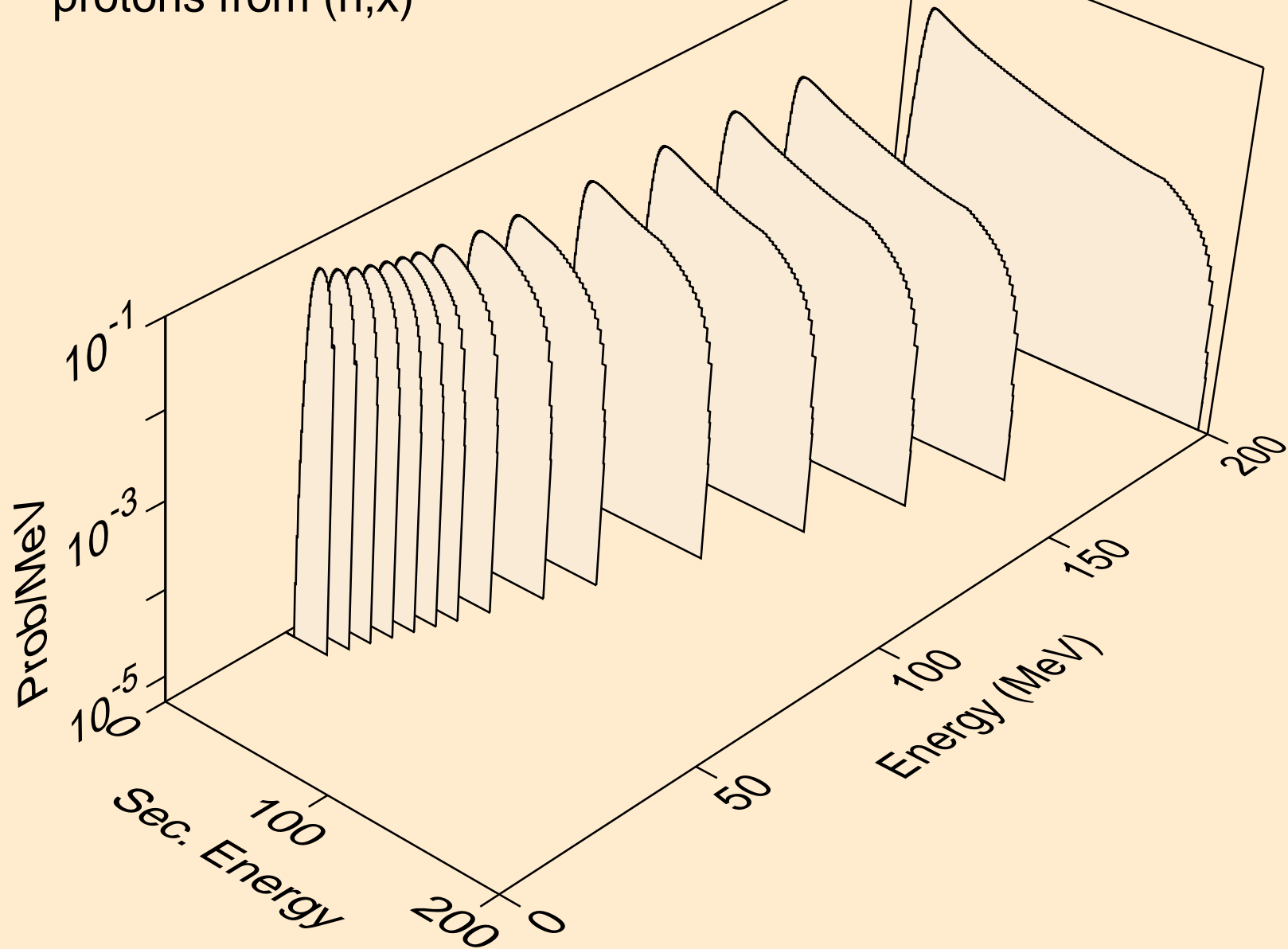
TH239 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Recoil Heating



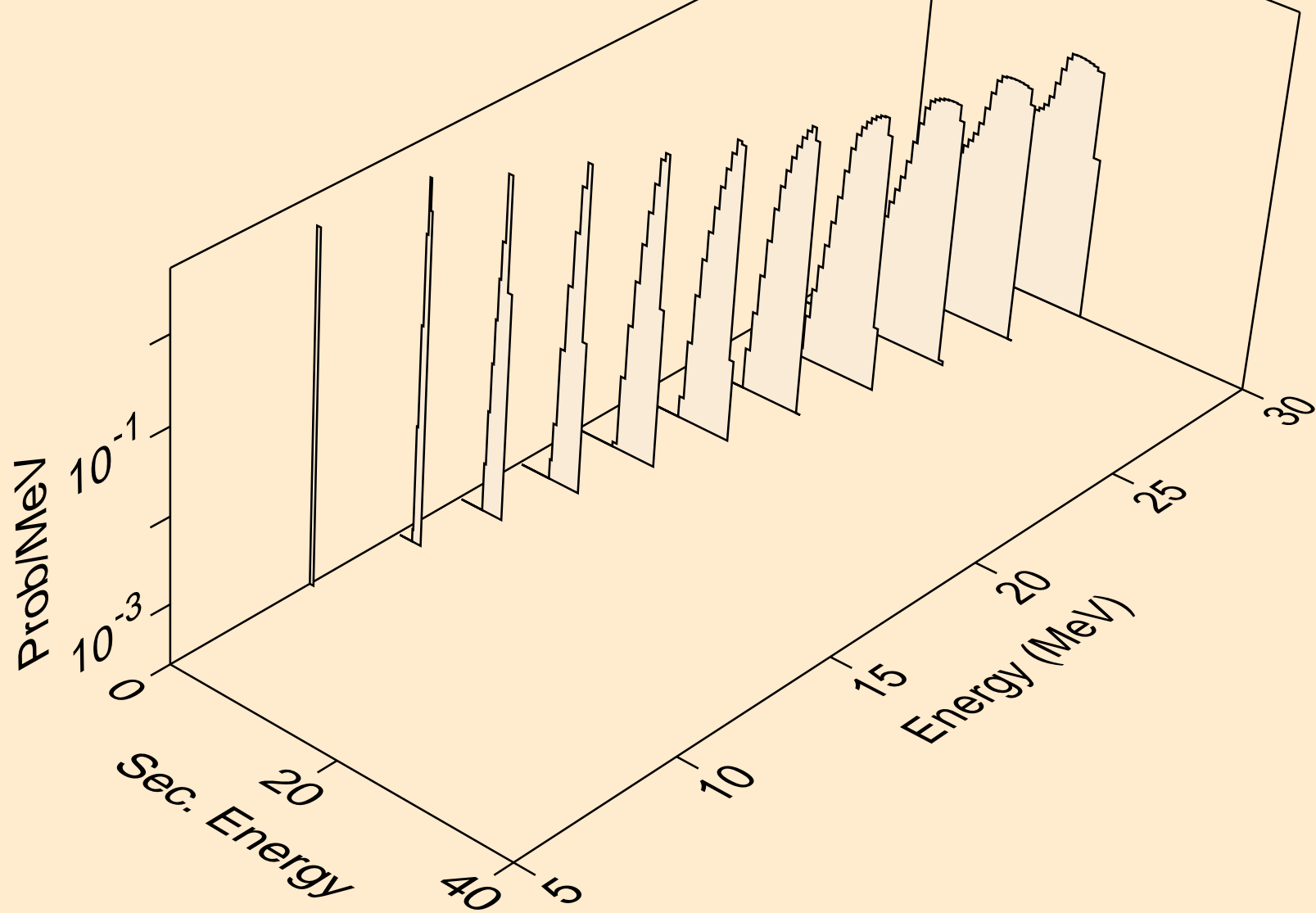
TH239 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Particle production cross sections



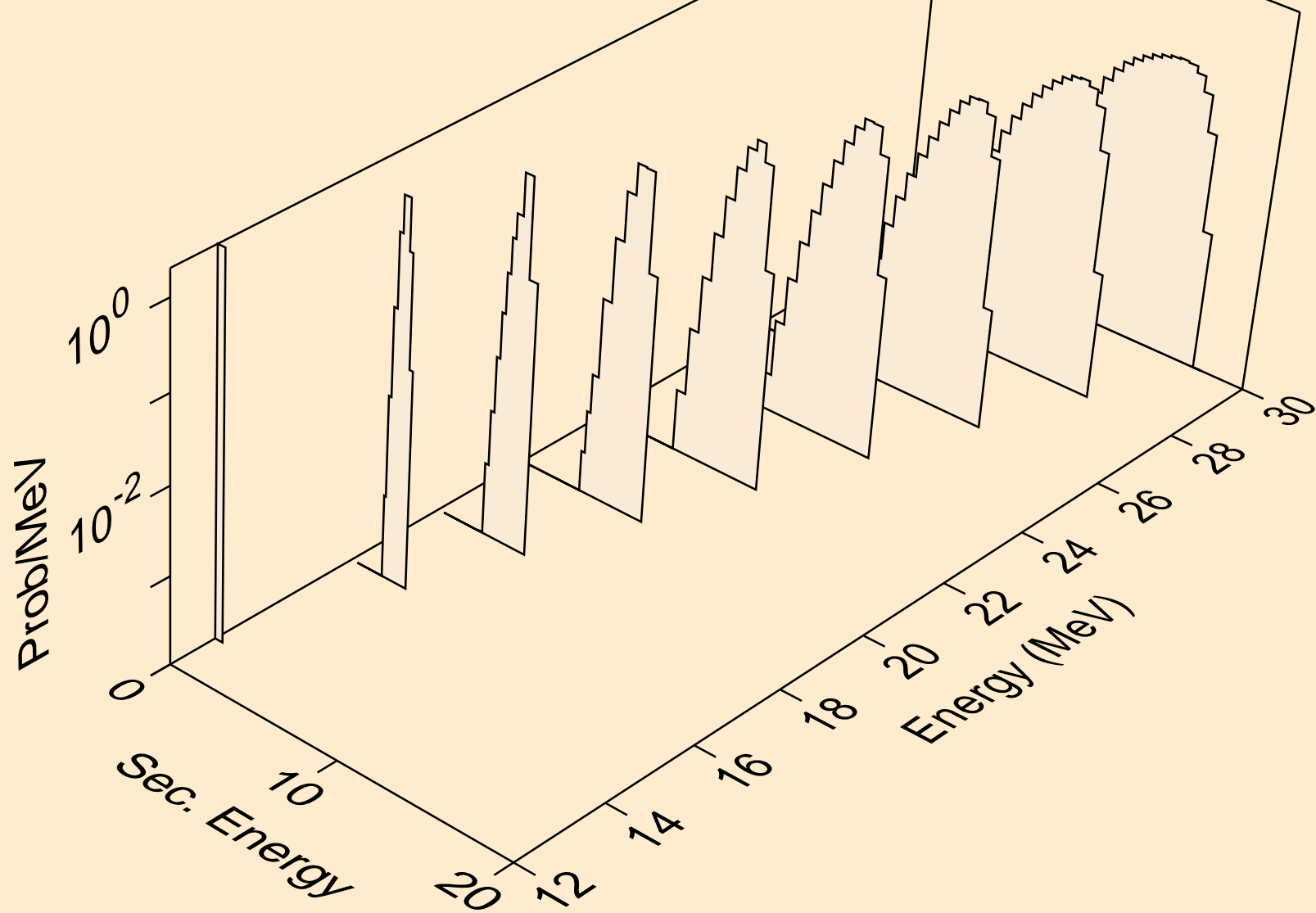
TH239 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
protons from (n,x)



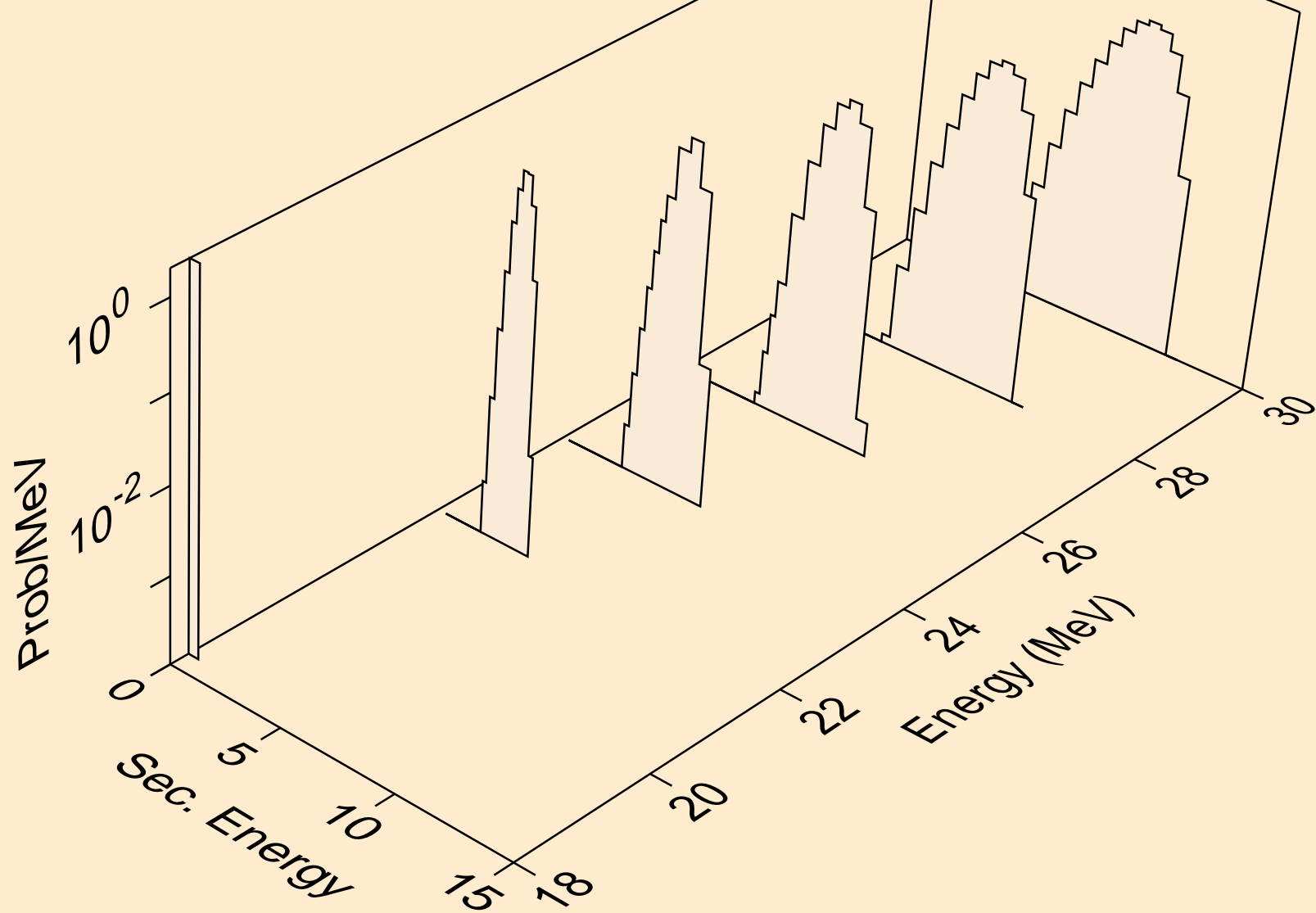
TH239 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
protons from (n,n\*)p



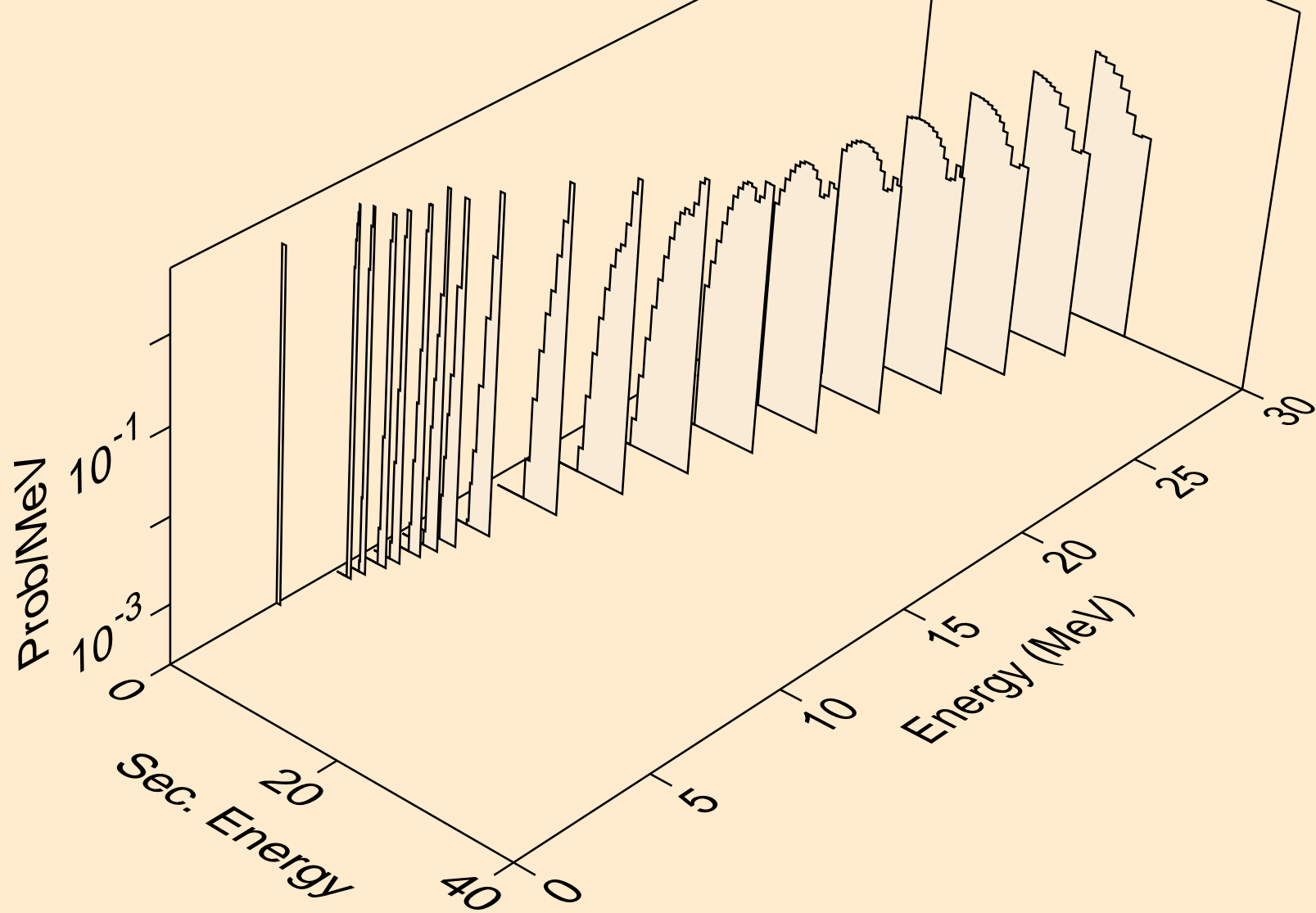
TH239 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
protons from (n,2np)



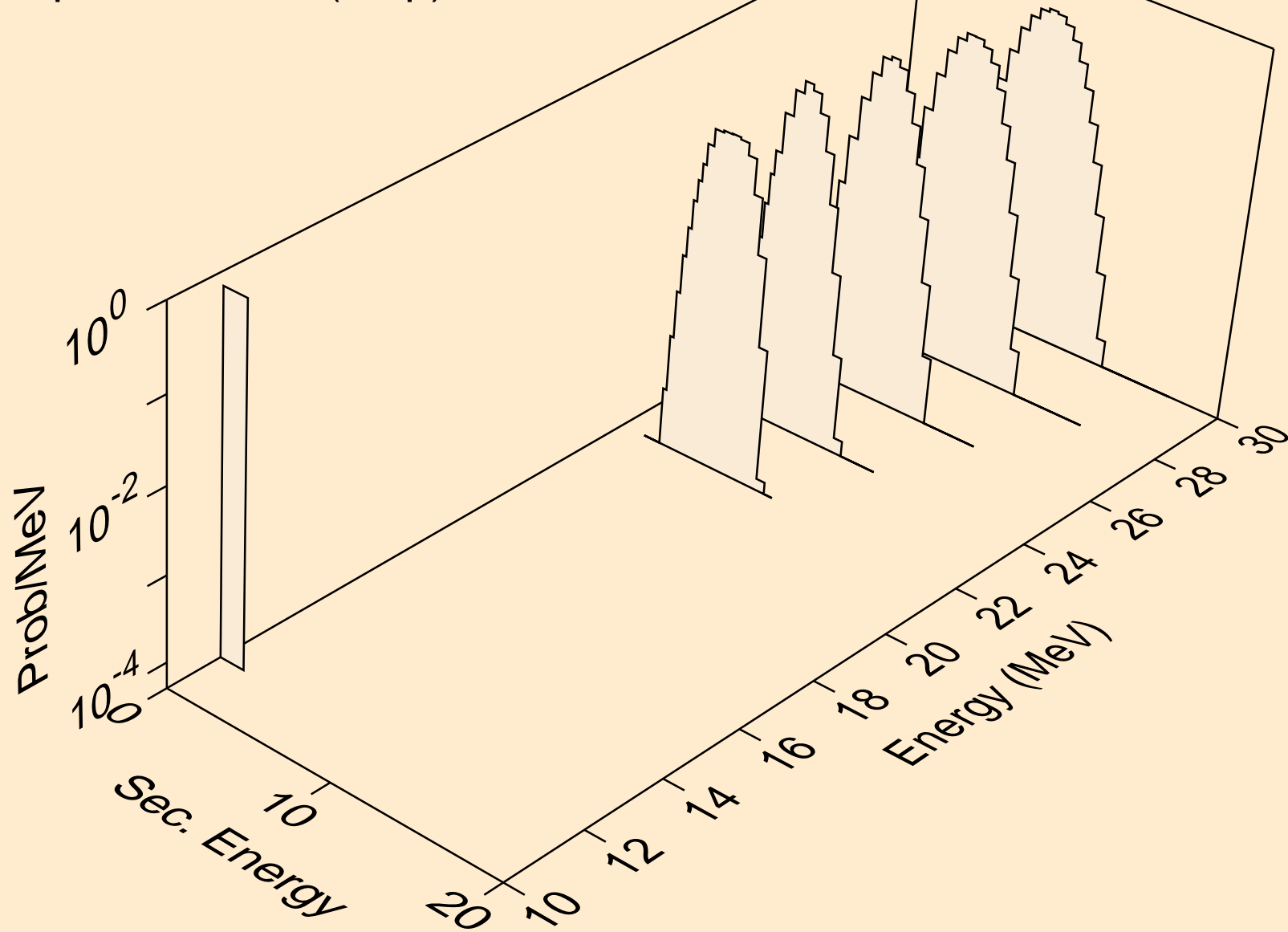
TH239 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
protons from (n,3np)



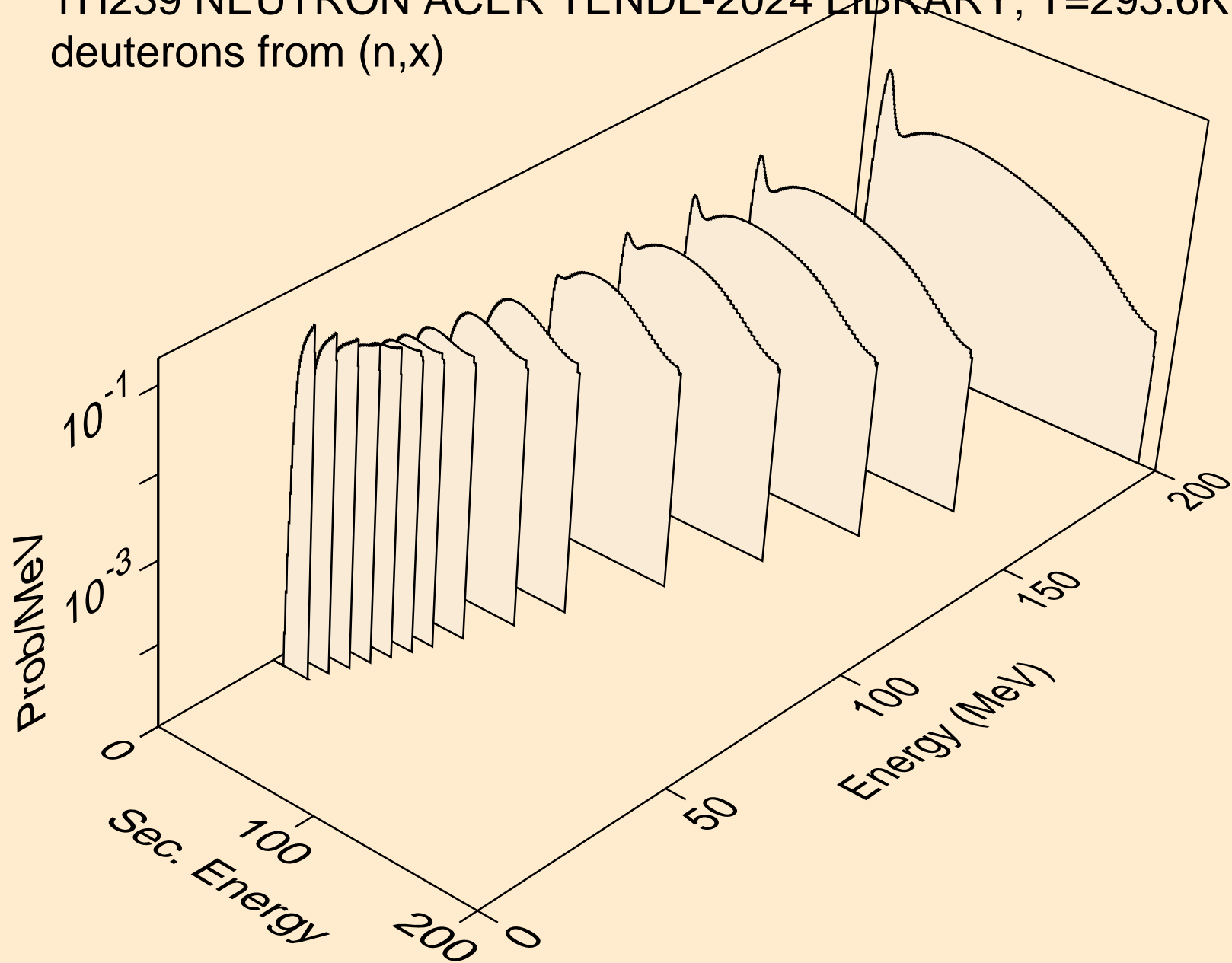
TH239 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
protons from (n,p)



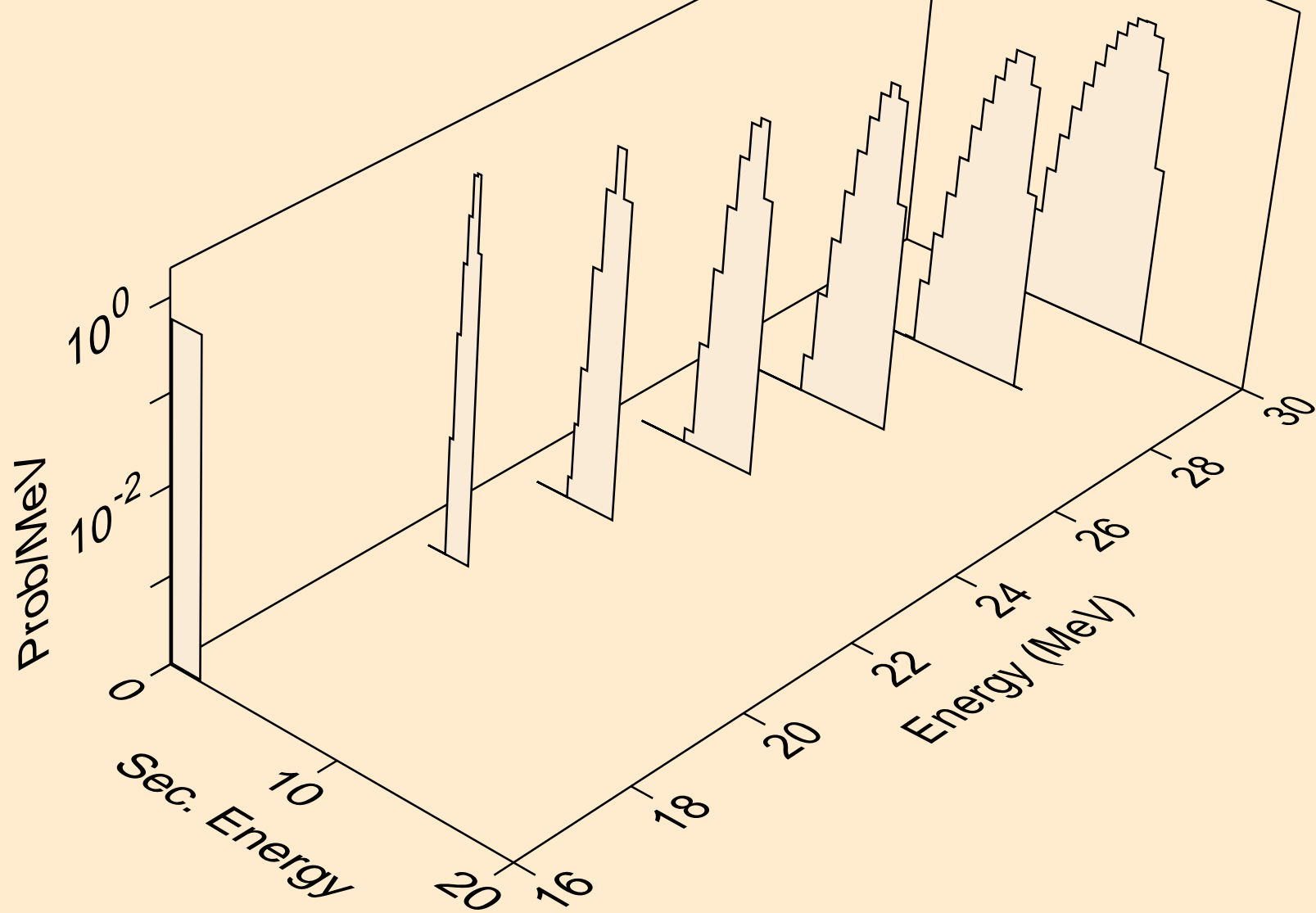
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protons from (n,2p)



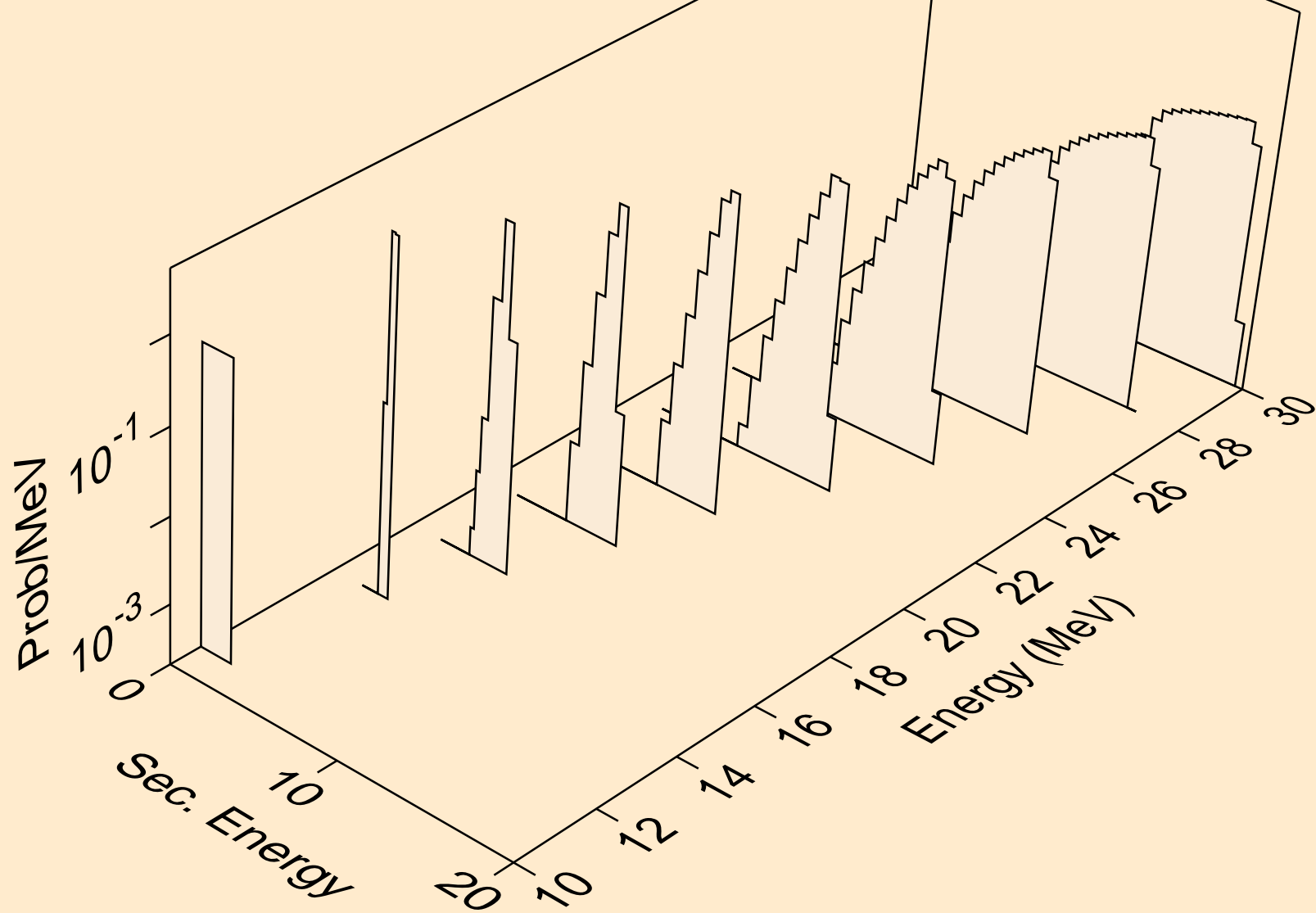
TH239 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
deuterons from (n,x)



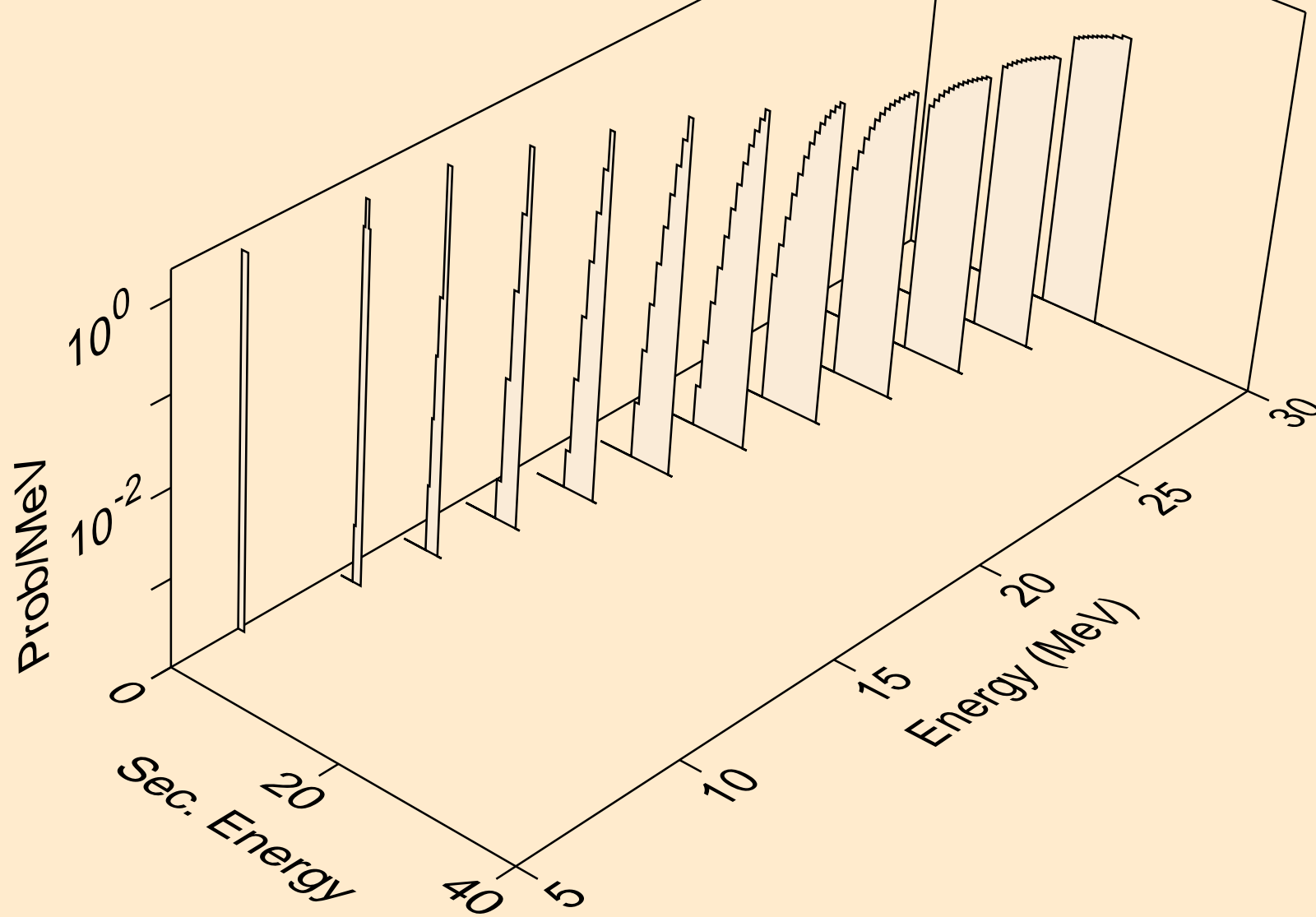
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deuterons from (n,2nd)



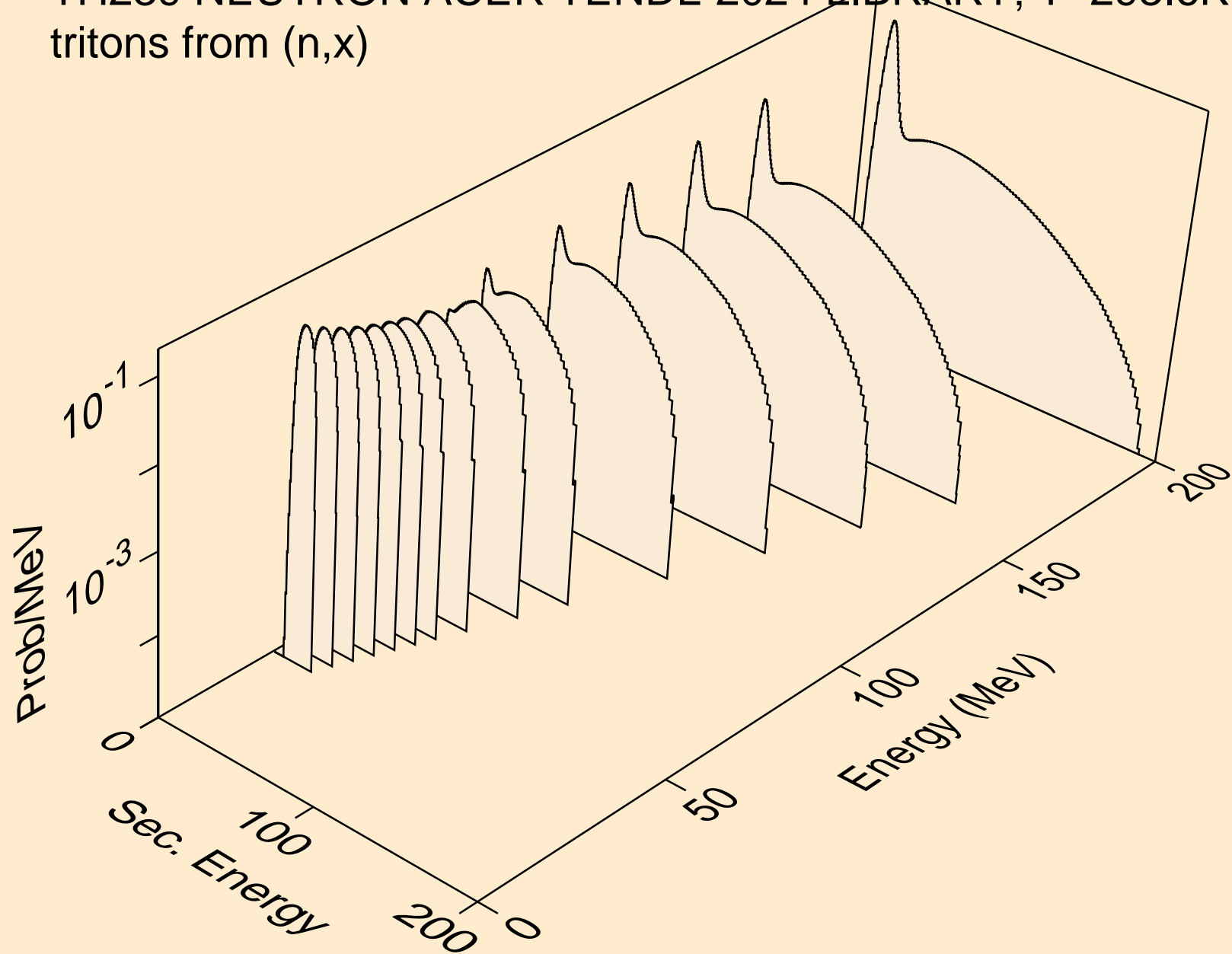
TH239 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
deuterons from (n,n\*)d



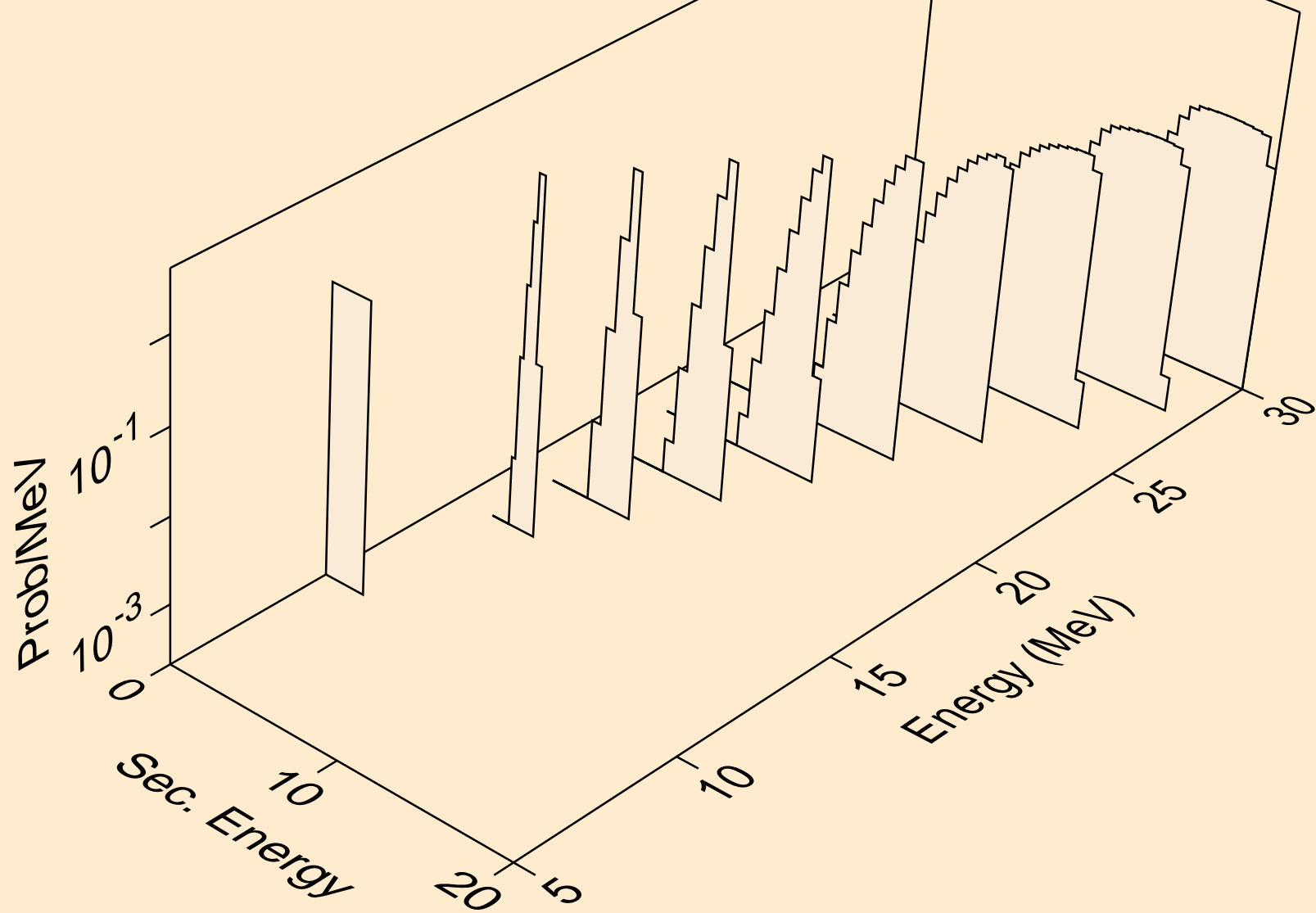
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deuterons from (n,d)



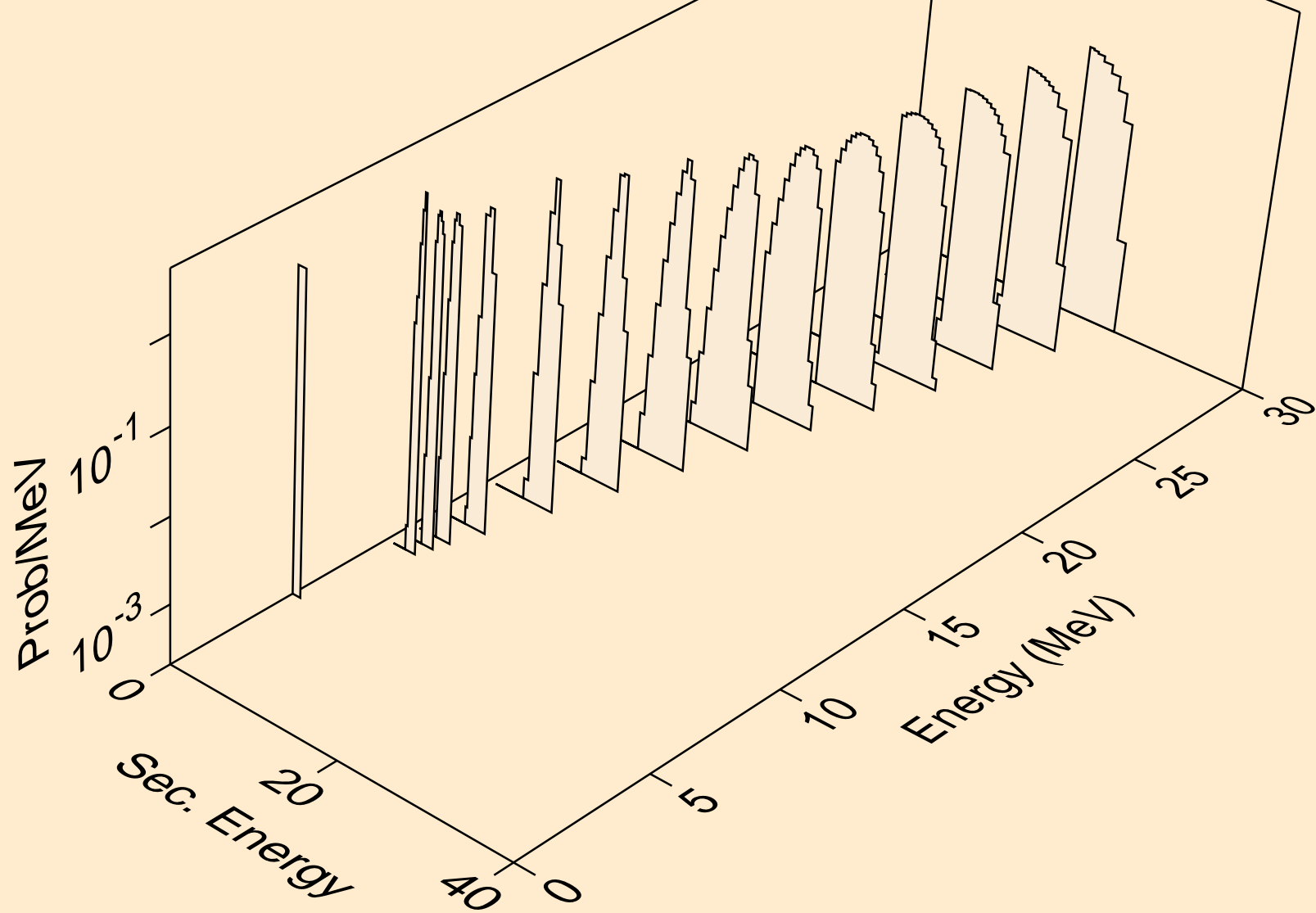
TH239 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
tritons from (n,x)



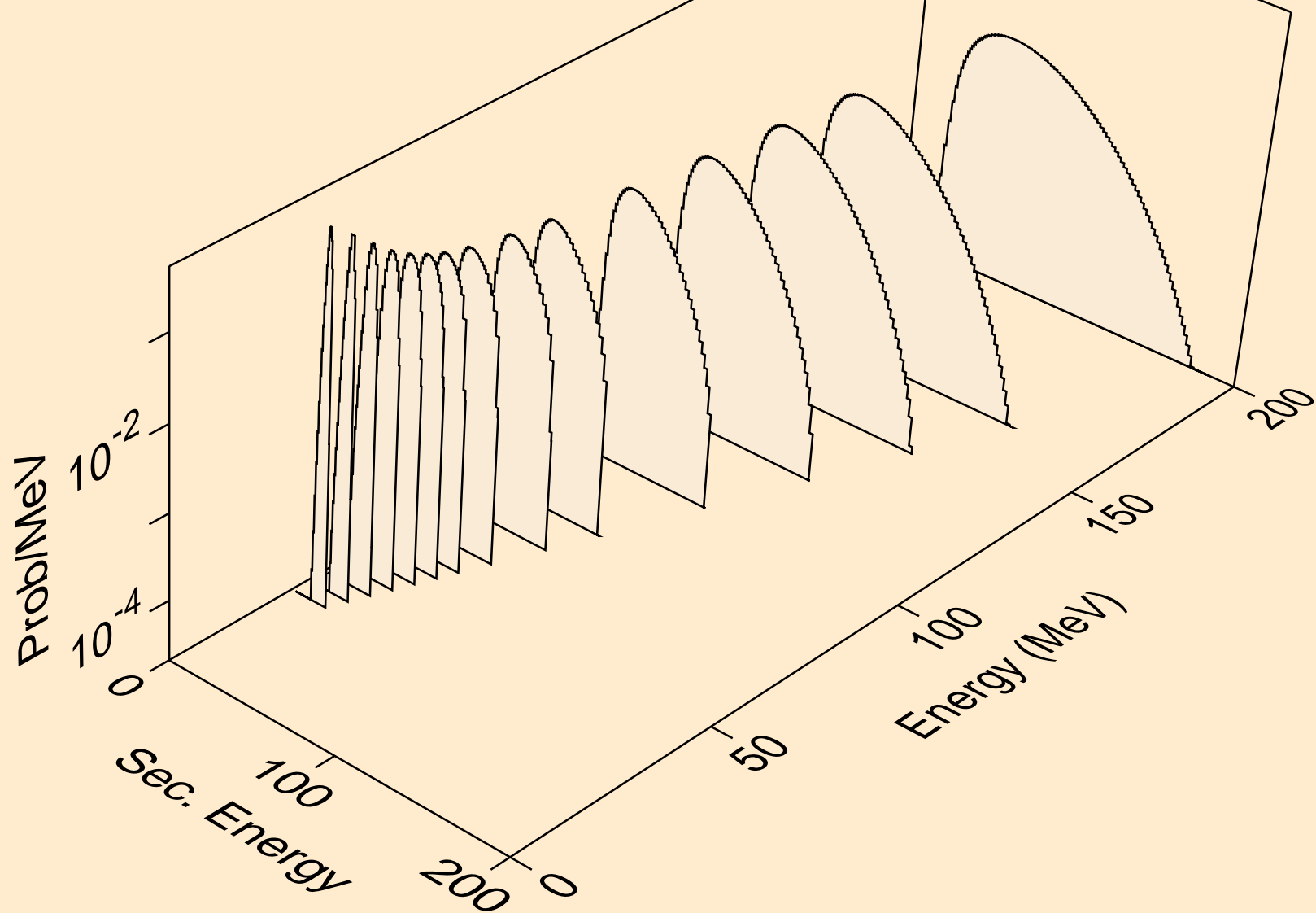
TH239 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
tritons from (n,n\*)t



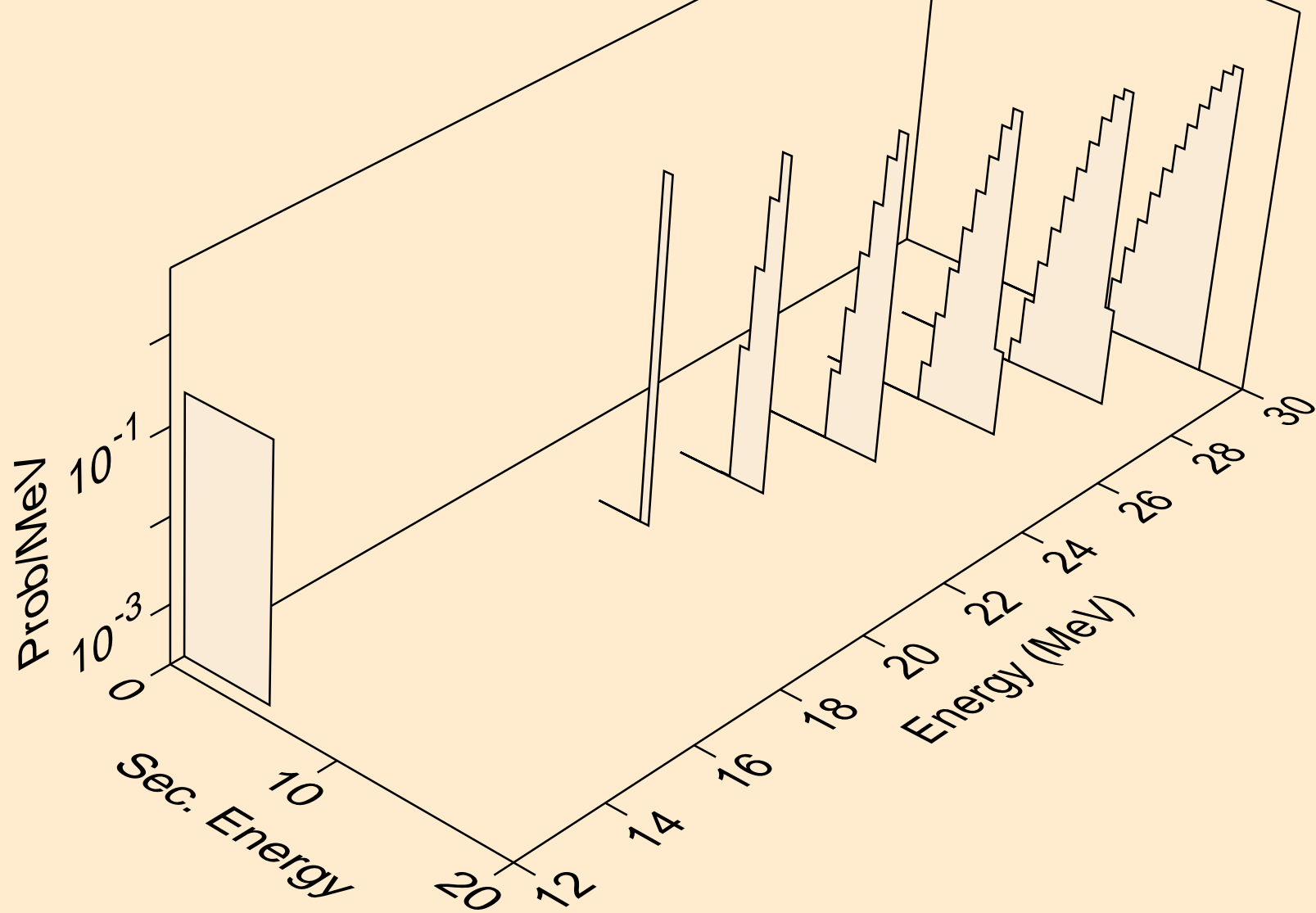
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tritons from (n,t)



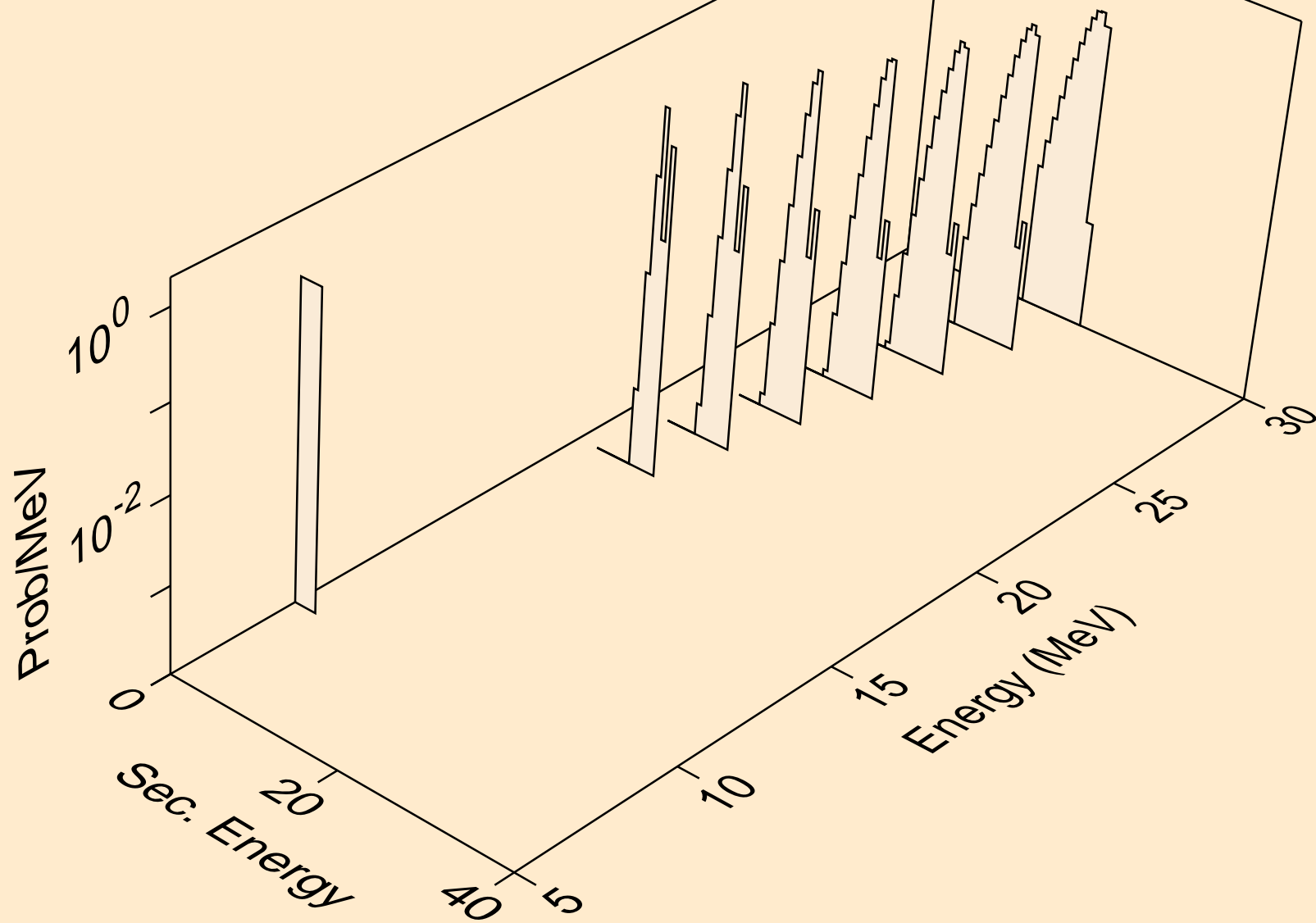
TH239 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
he3s from (n,x)



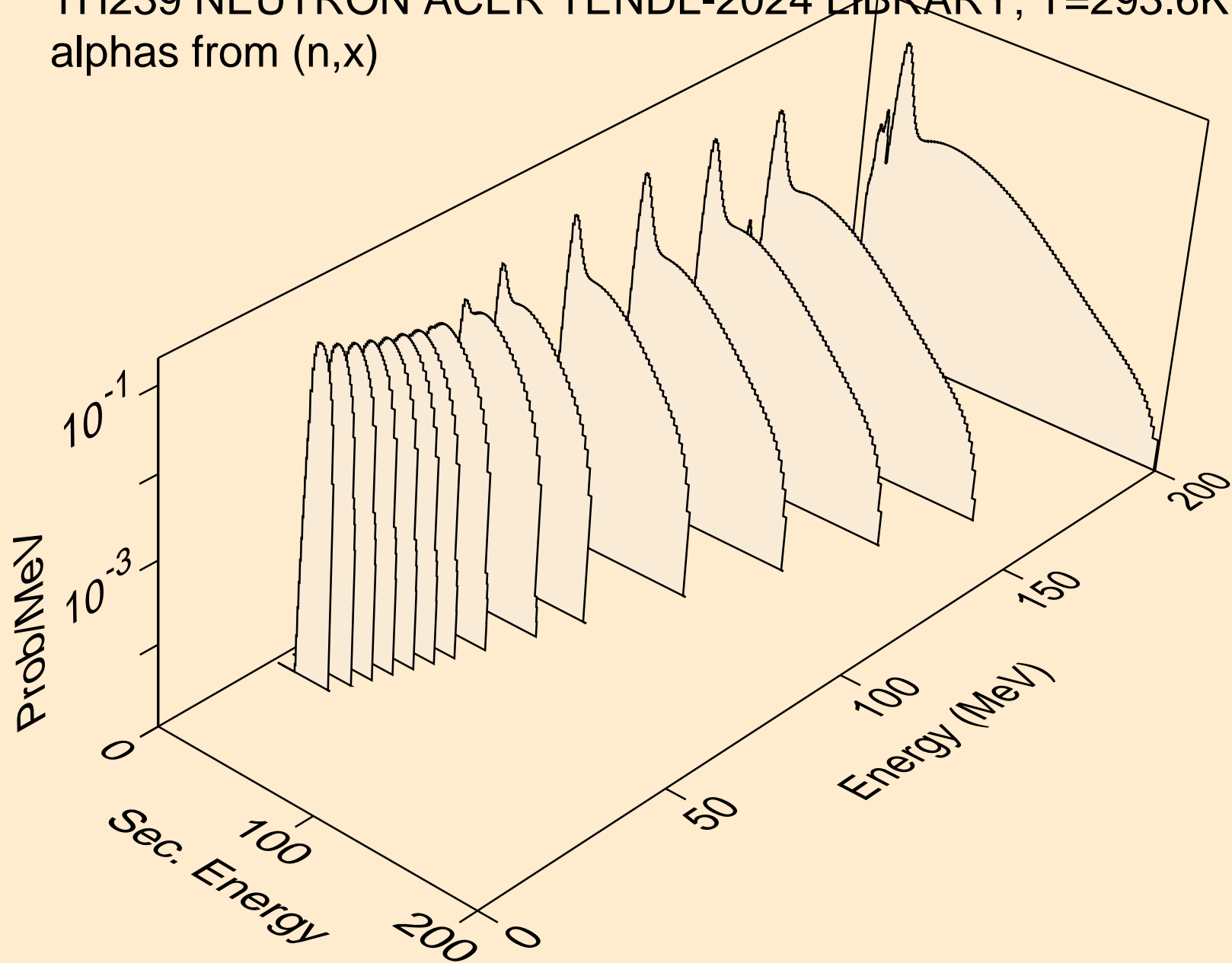
TH239 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
he3s from (n,n\*)he3



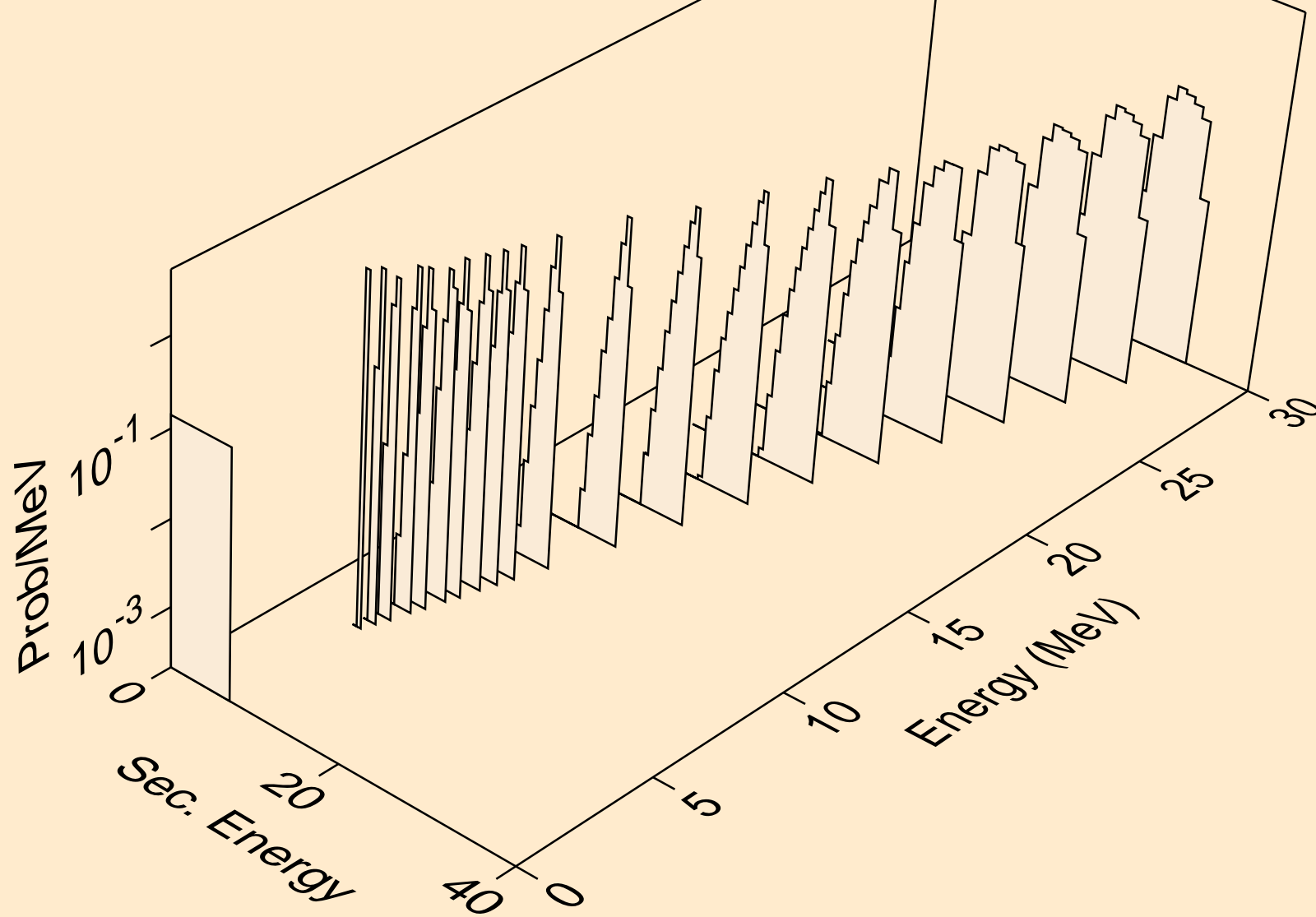
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he3s from (n,he3)



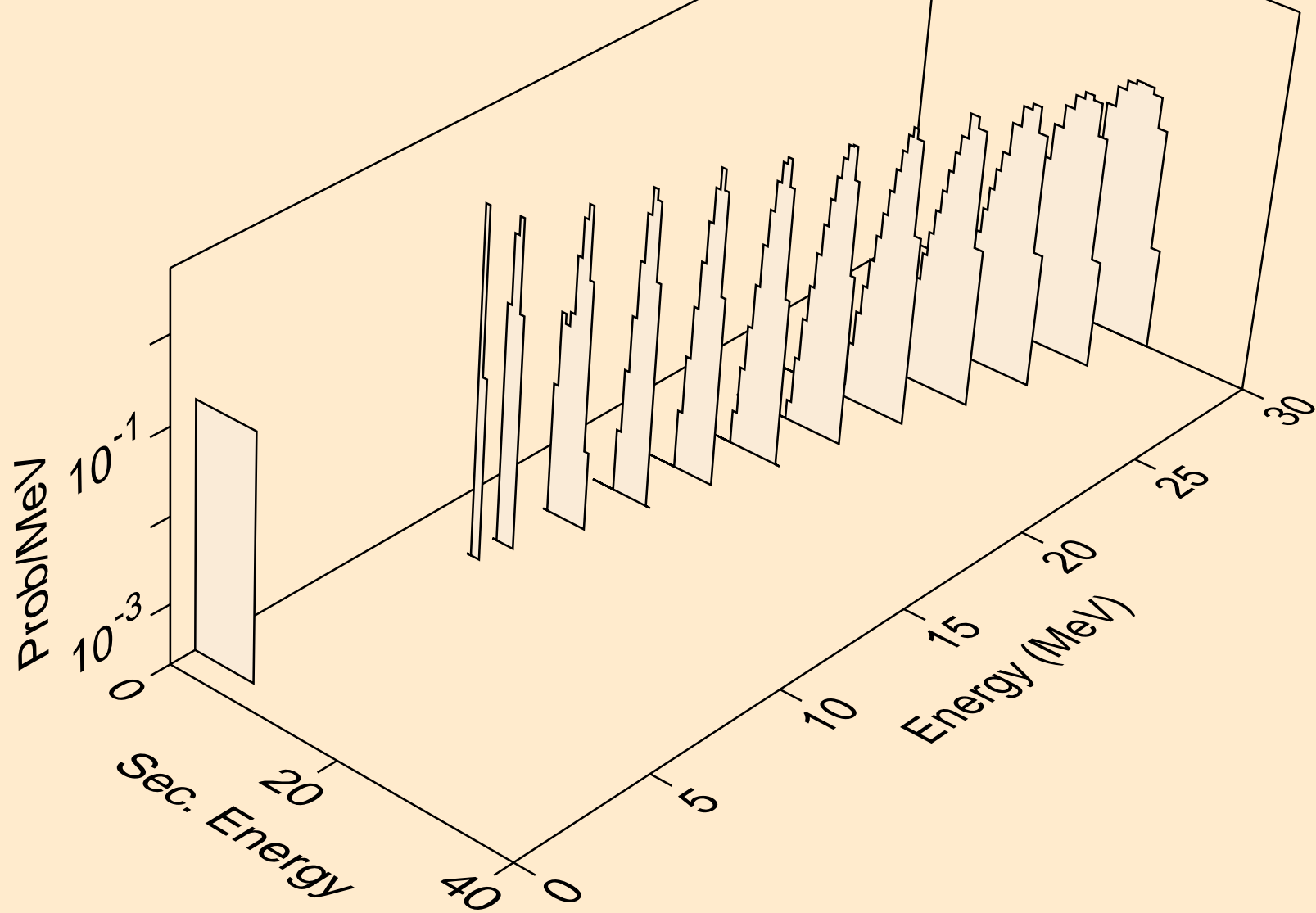
TH239 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
alphas from (n,x)



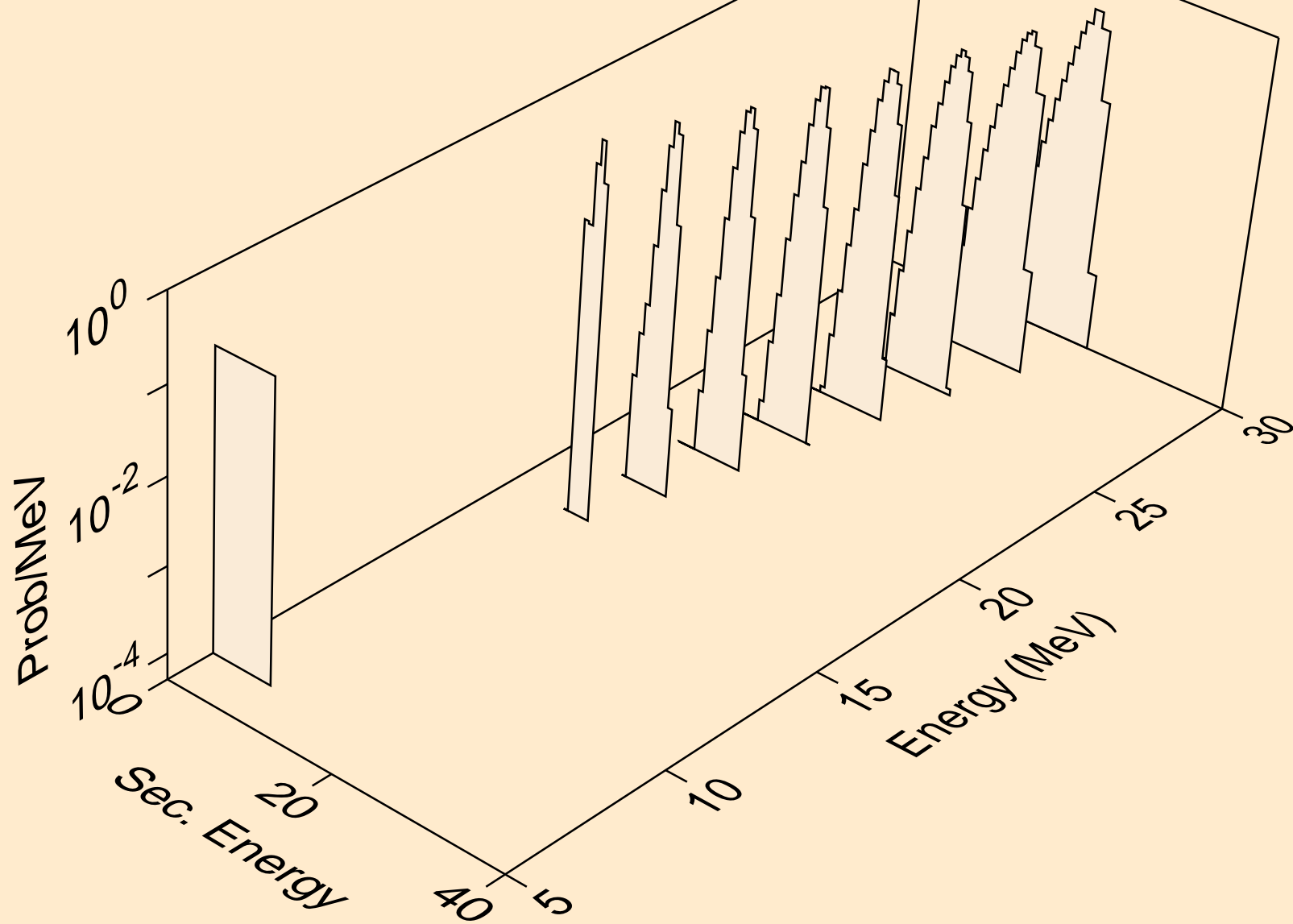
TH239 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
alphas from (n,n\*)a



TH239 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
alphas from (n,2n)a



TH239 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
alphas from (n,3n)a



TH239 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
alphas from (n,a)

