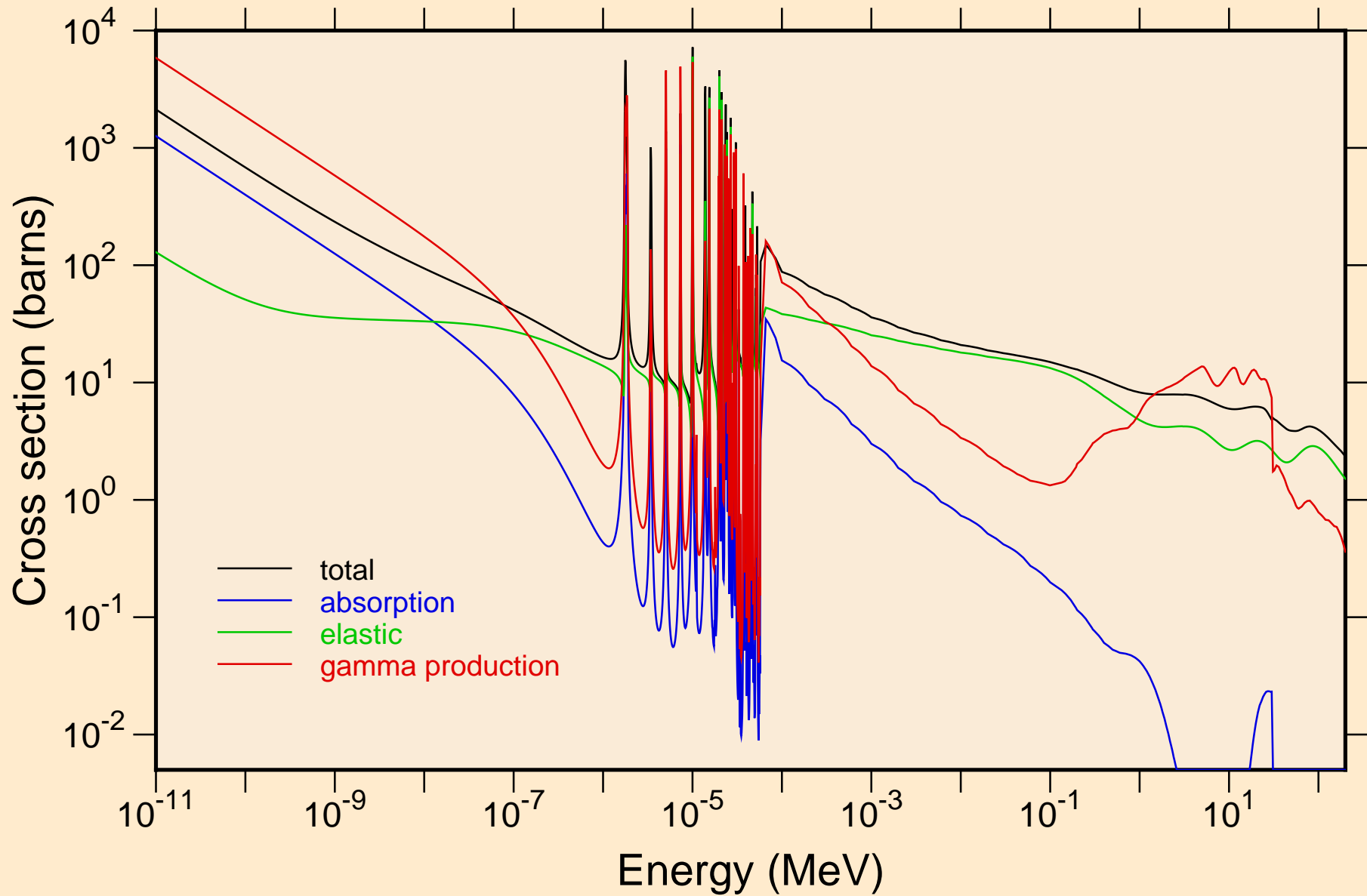
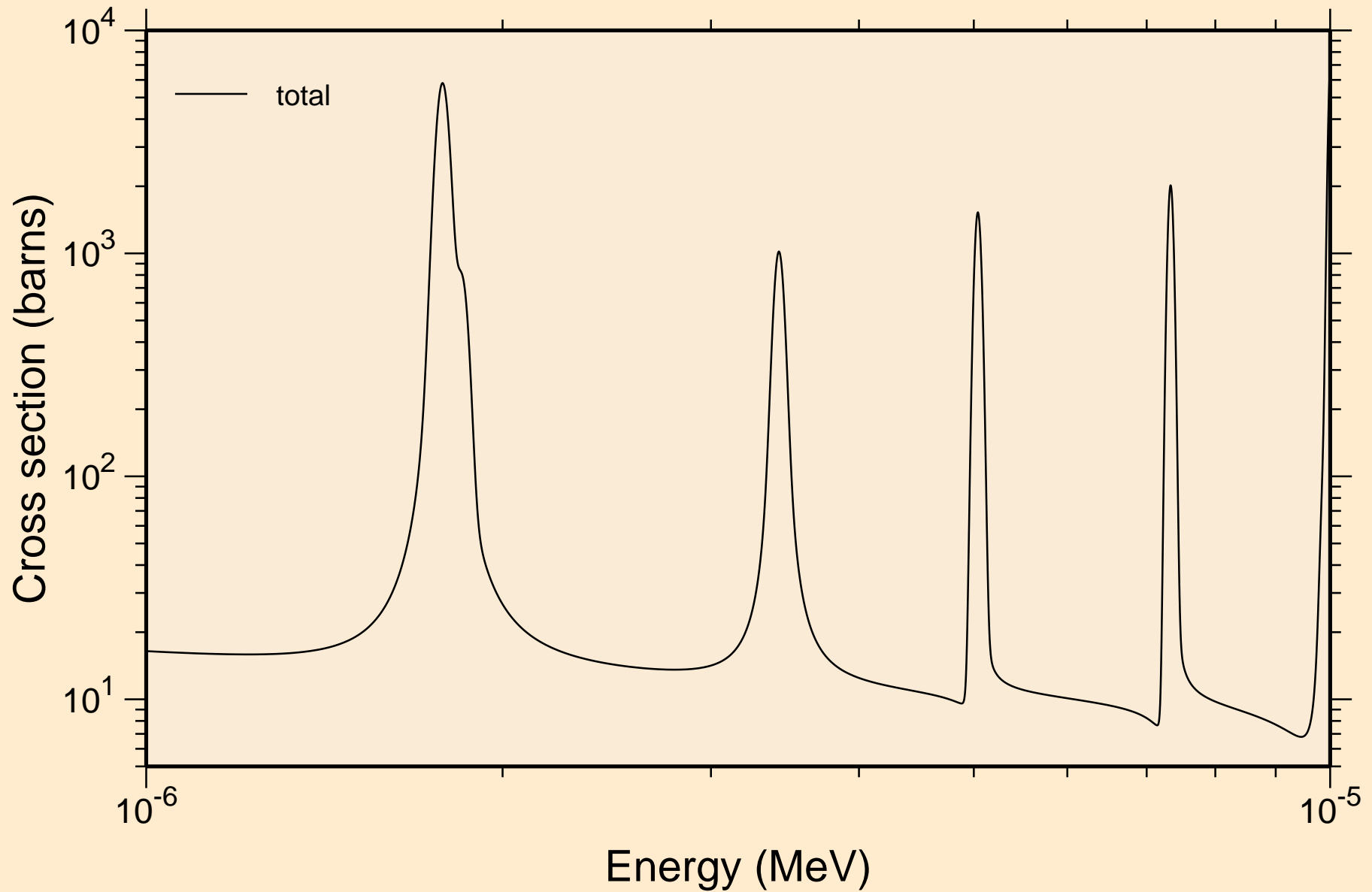


# U239 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K

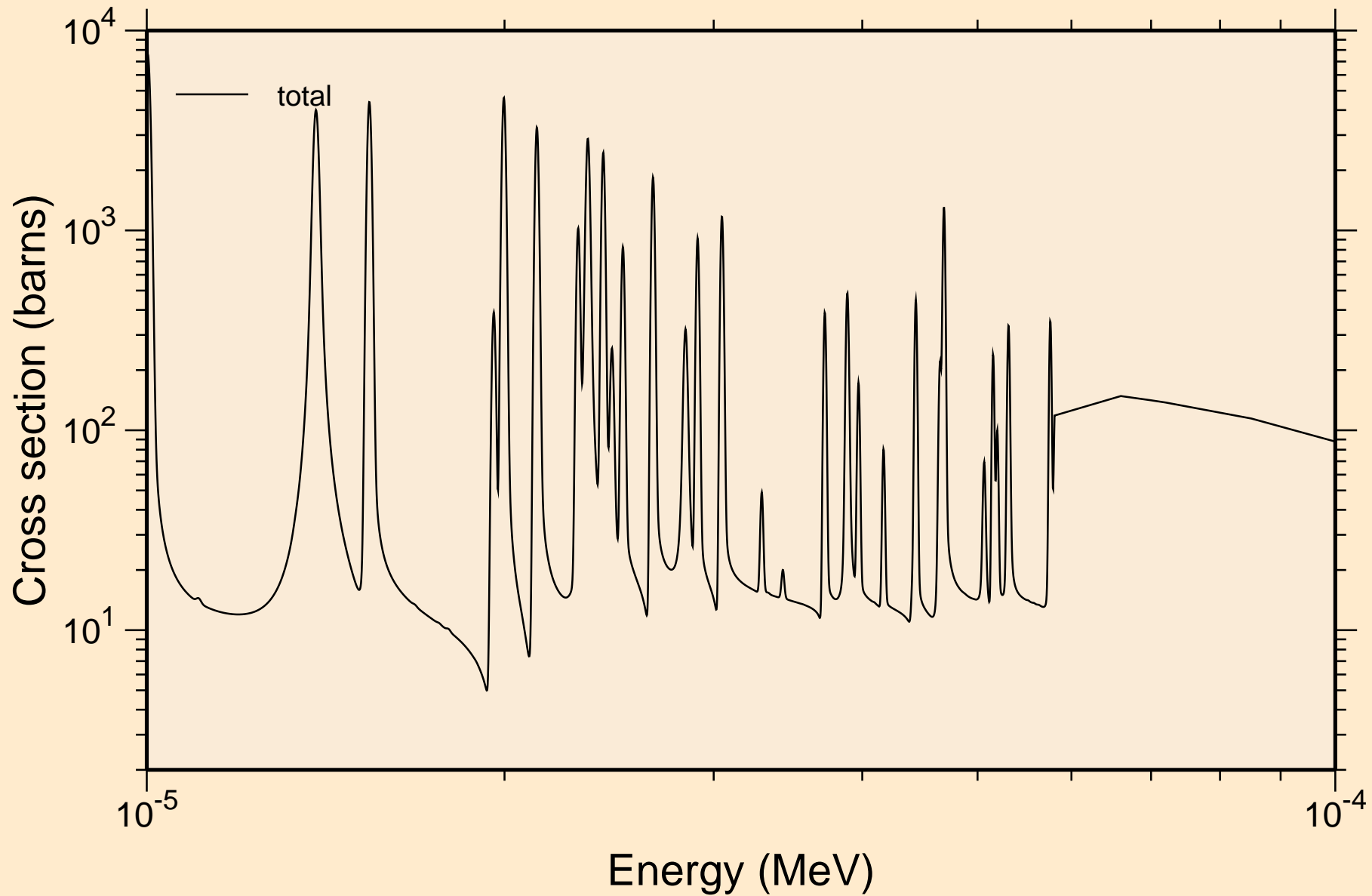
## Principal cross sections



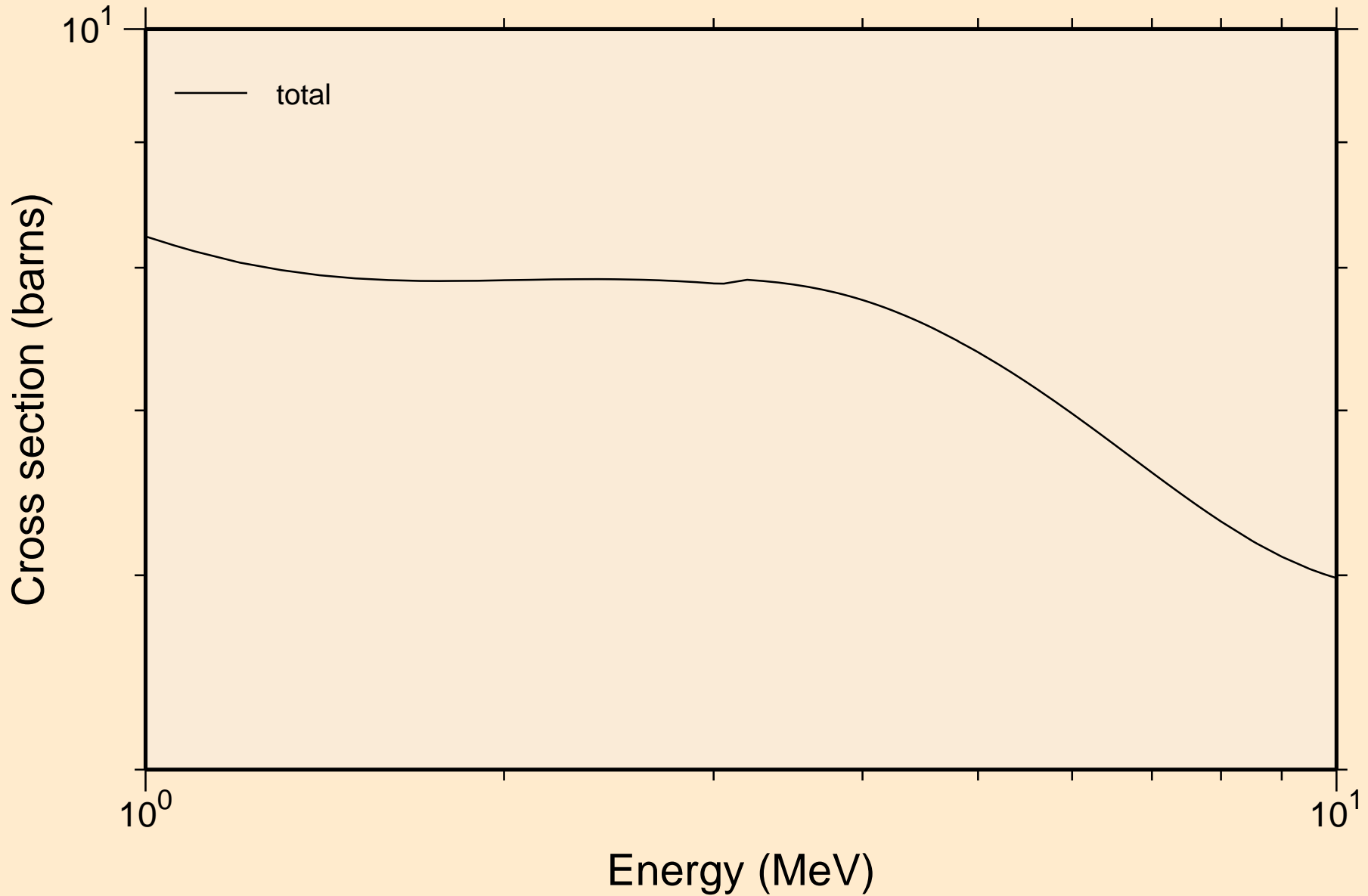
U239 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
resonance total cross section



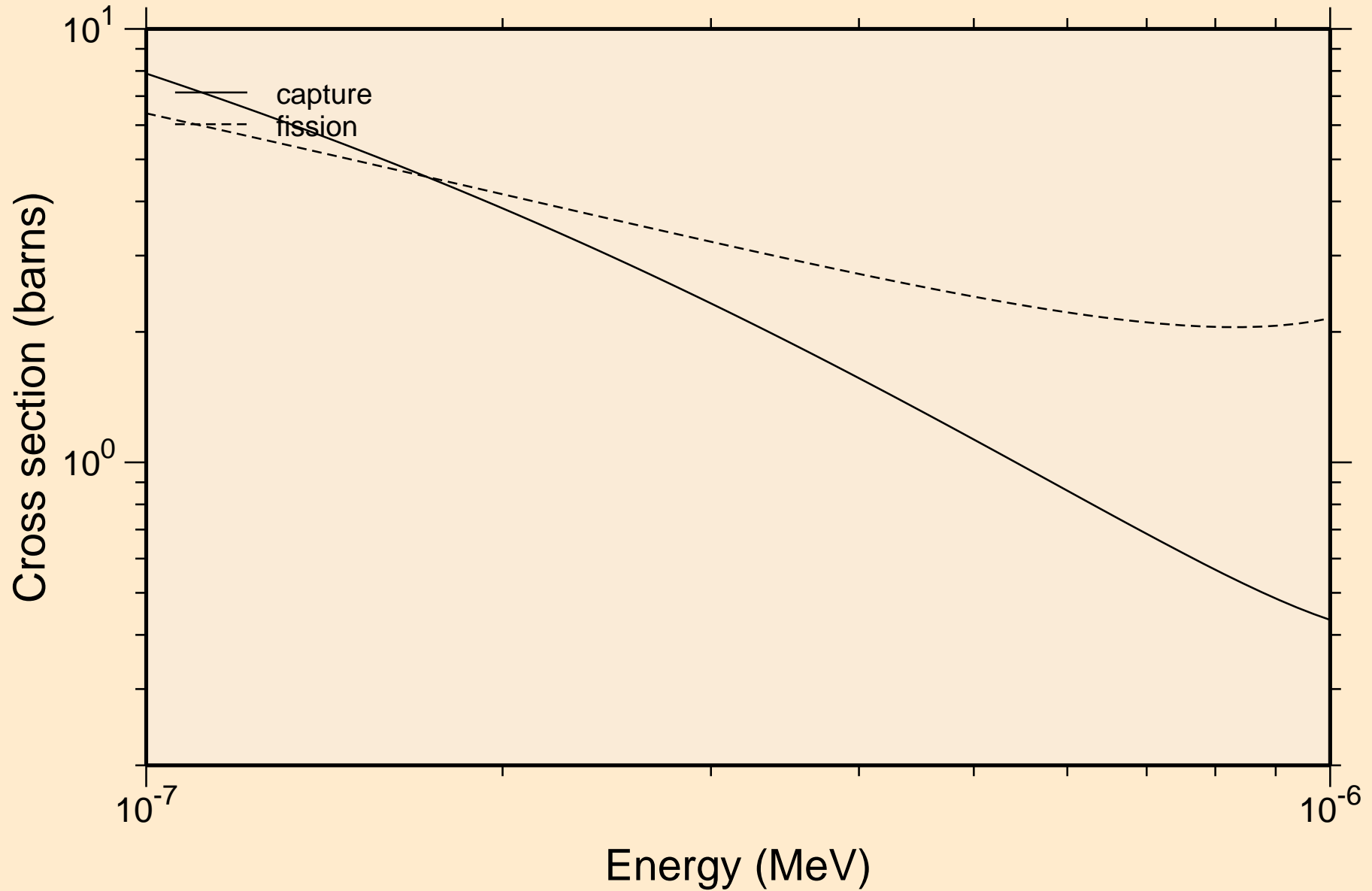
U239 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
resonance total cross section



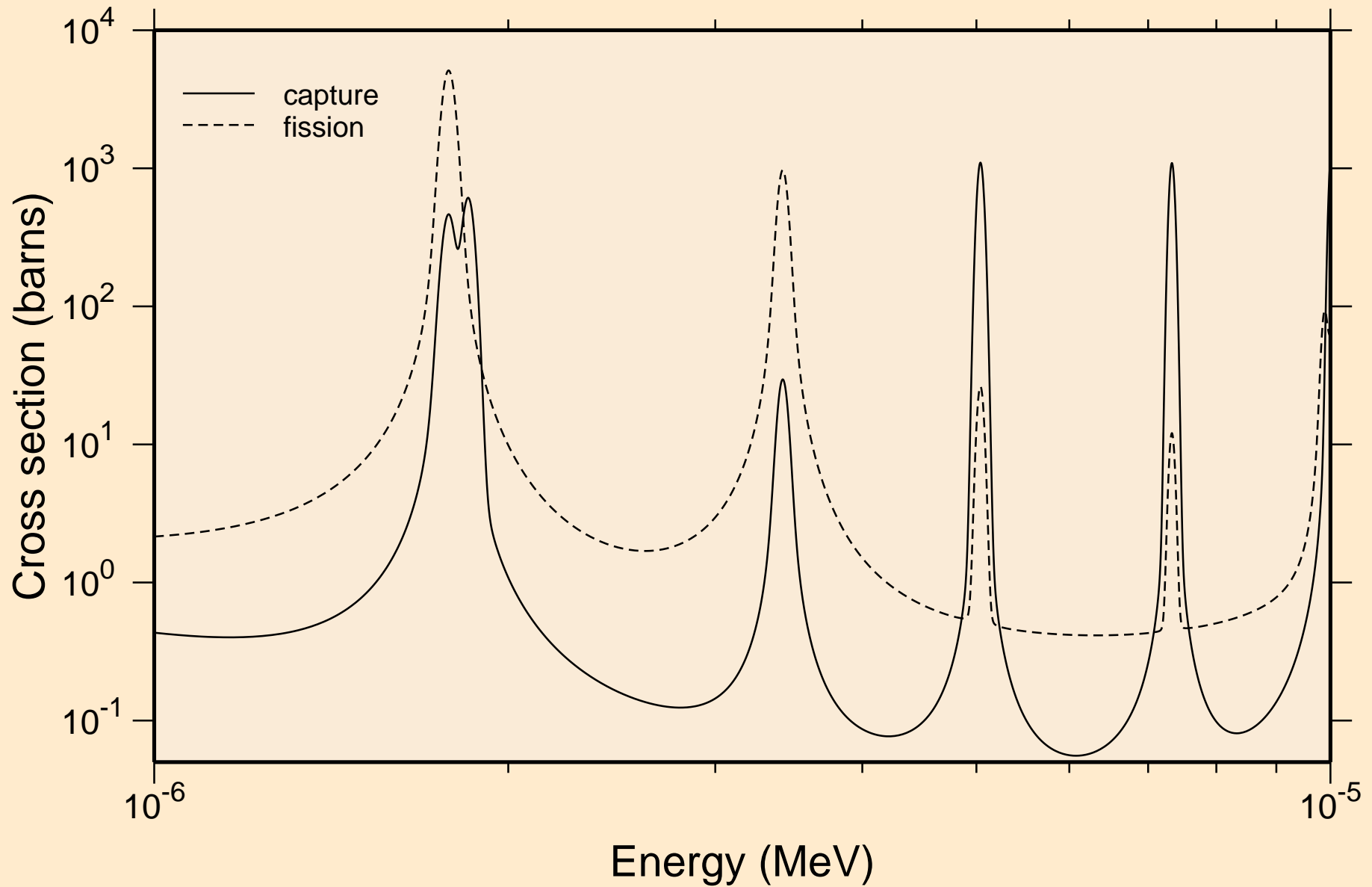
U239 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
resonance total cross section



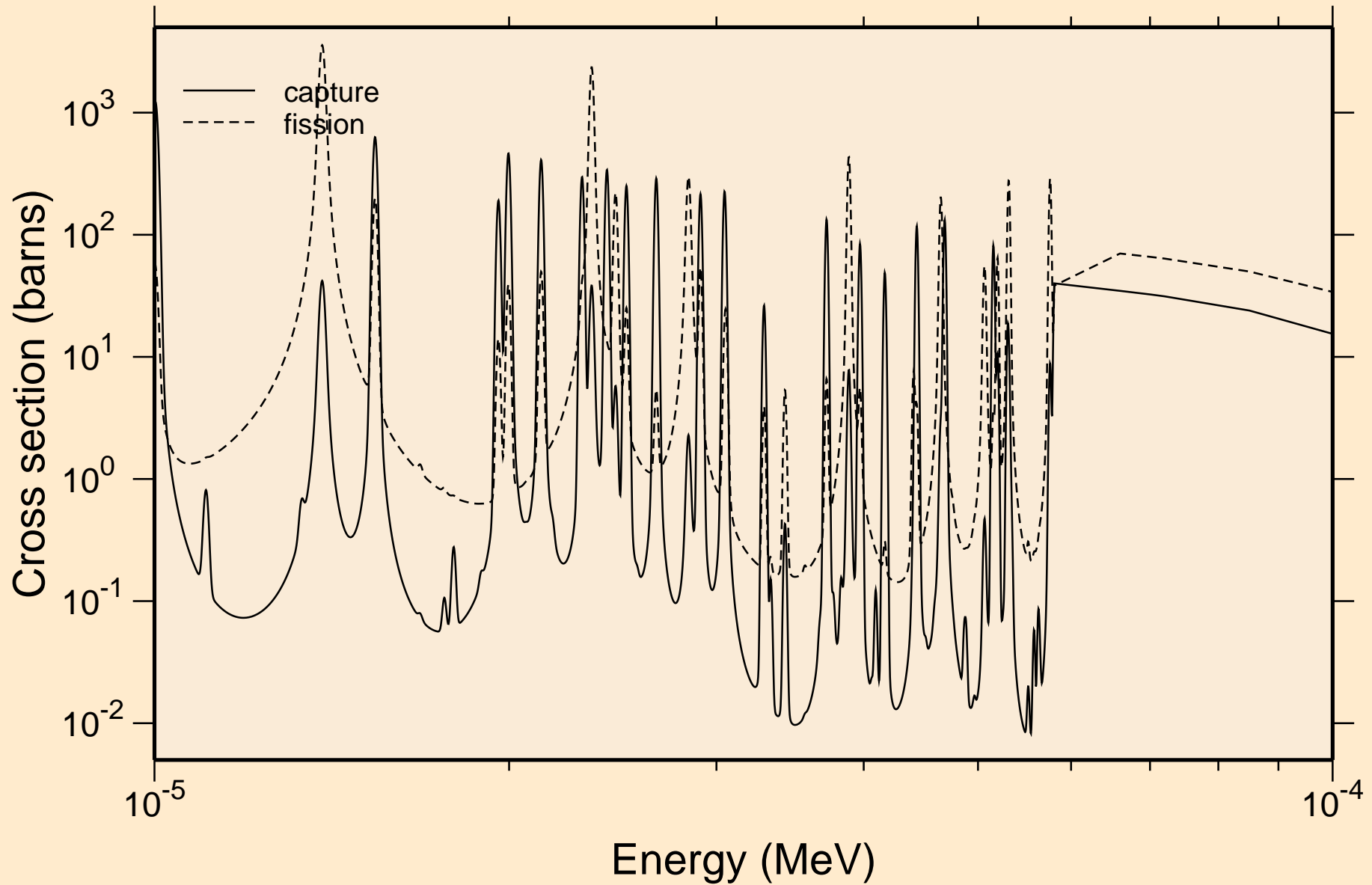
U239 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
resonance absorption cross sections



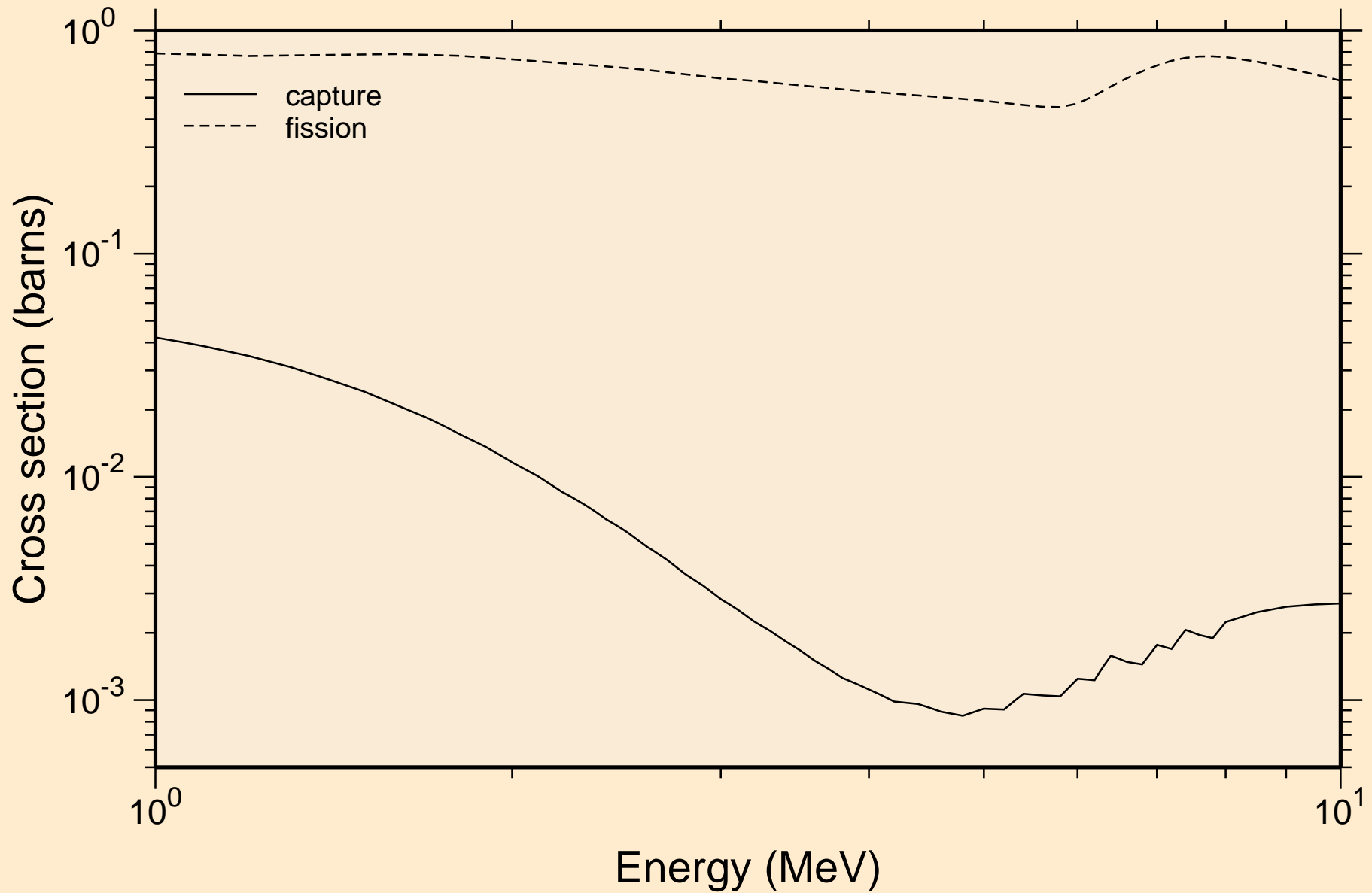
U239 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
resonance absorption cross sections



U239 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
resonance absorption cross sections

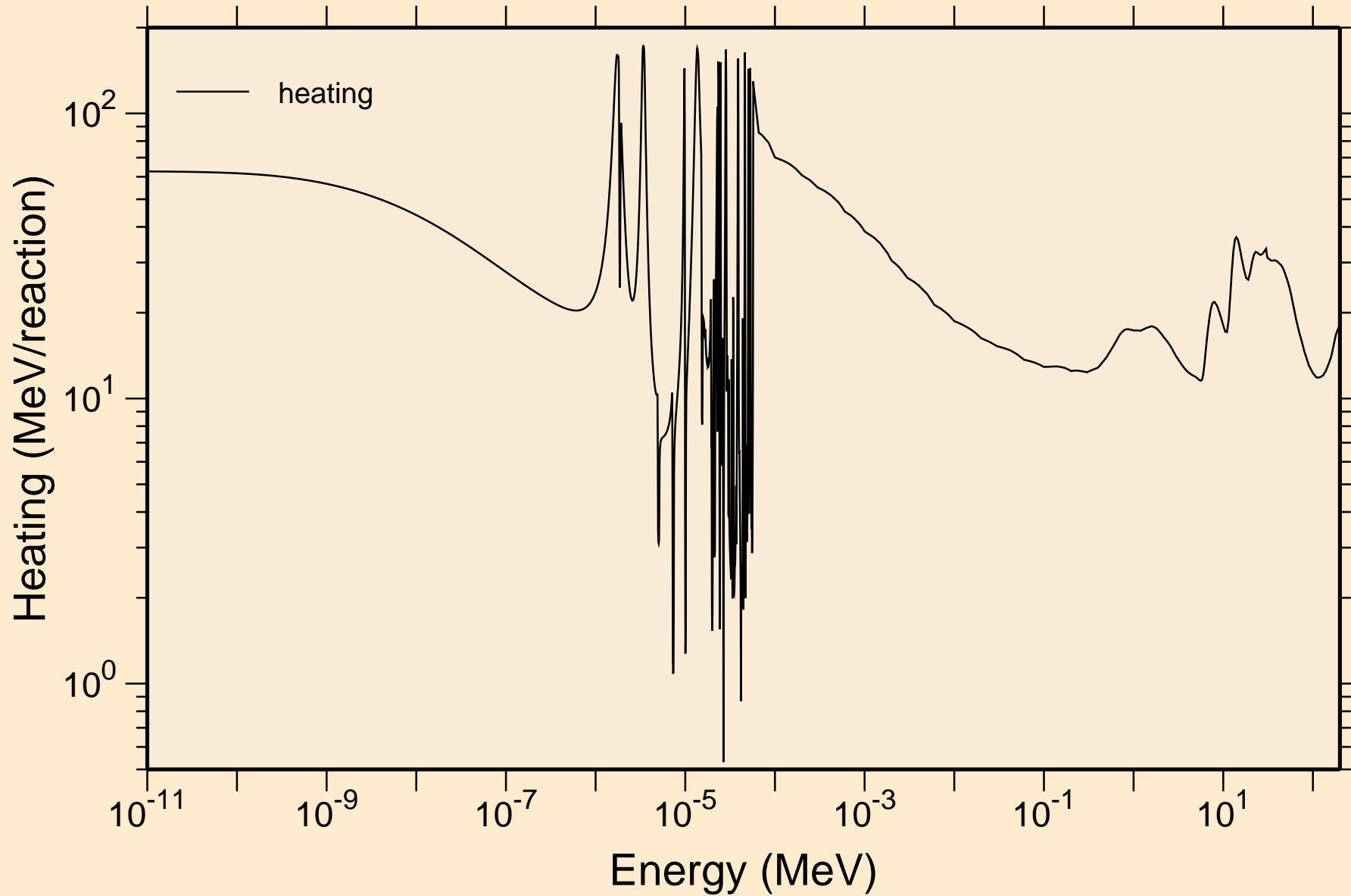


U239 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
resonance absorption cross sections



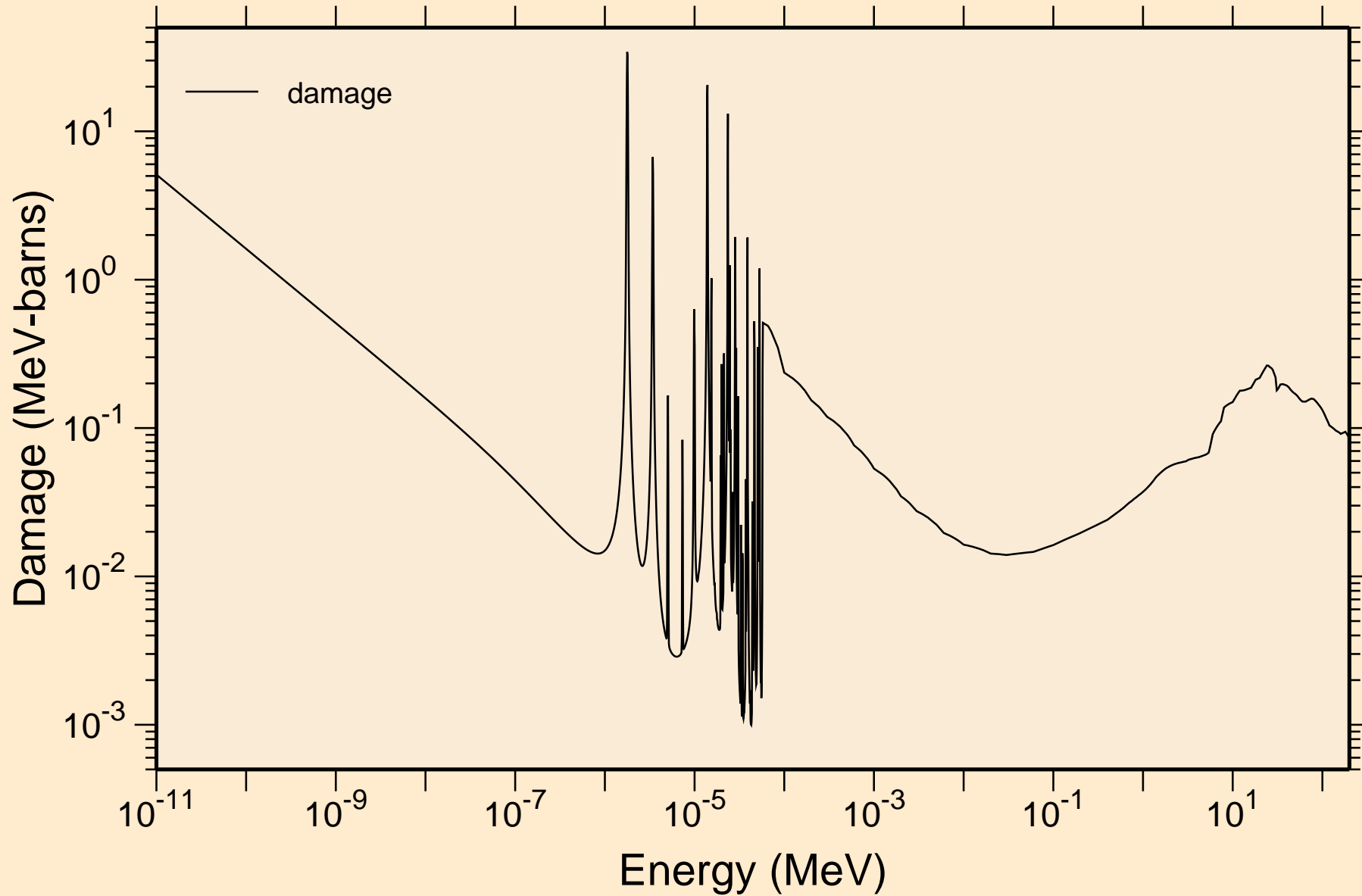
# U239 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K

## Heating

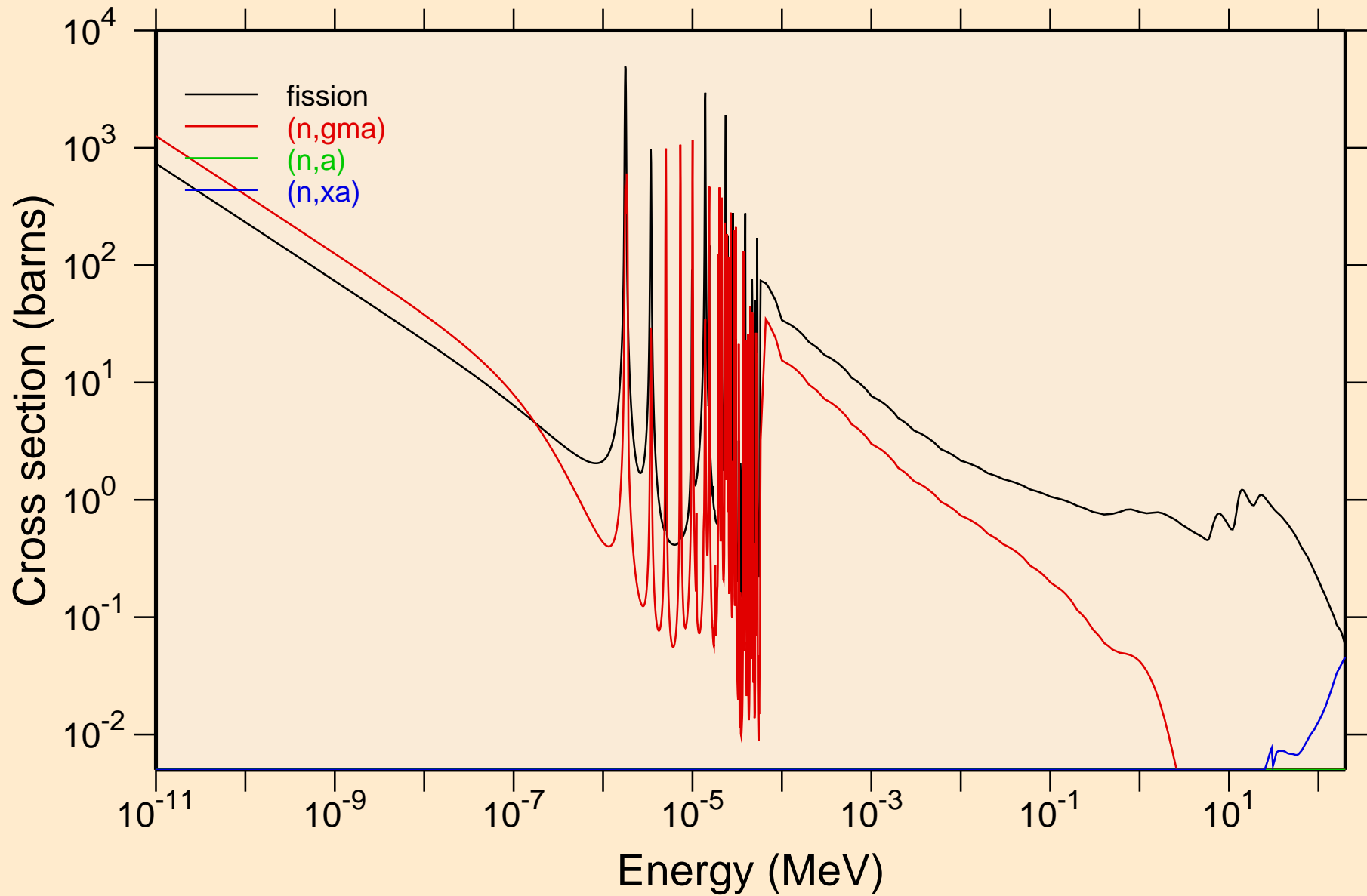


# U239 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K

## Damage

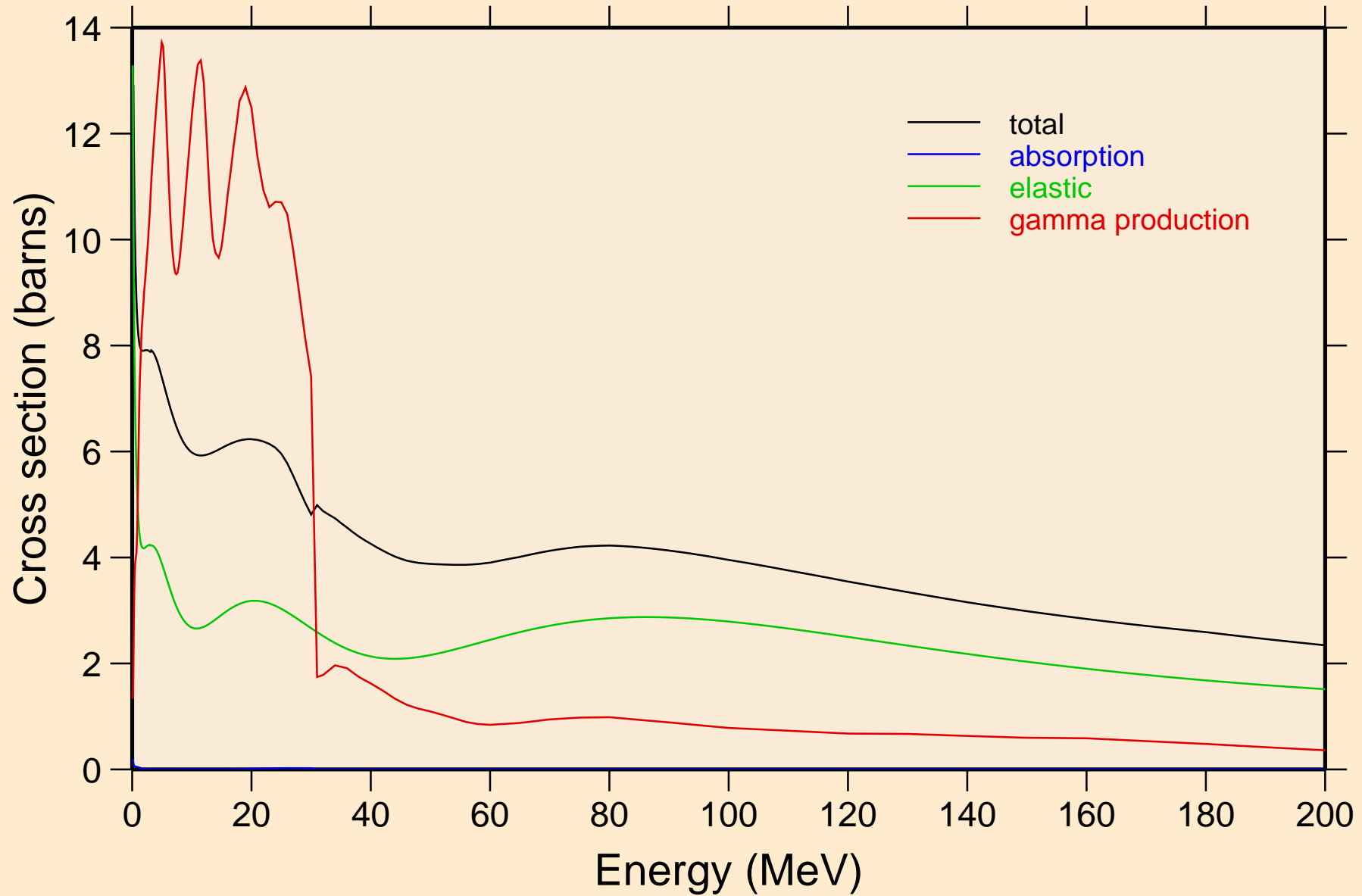


U239 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Non-threshold reactions



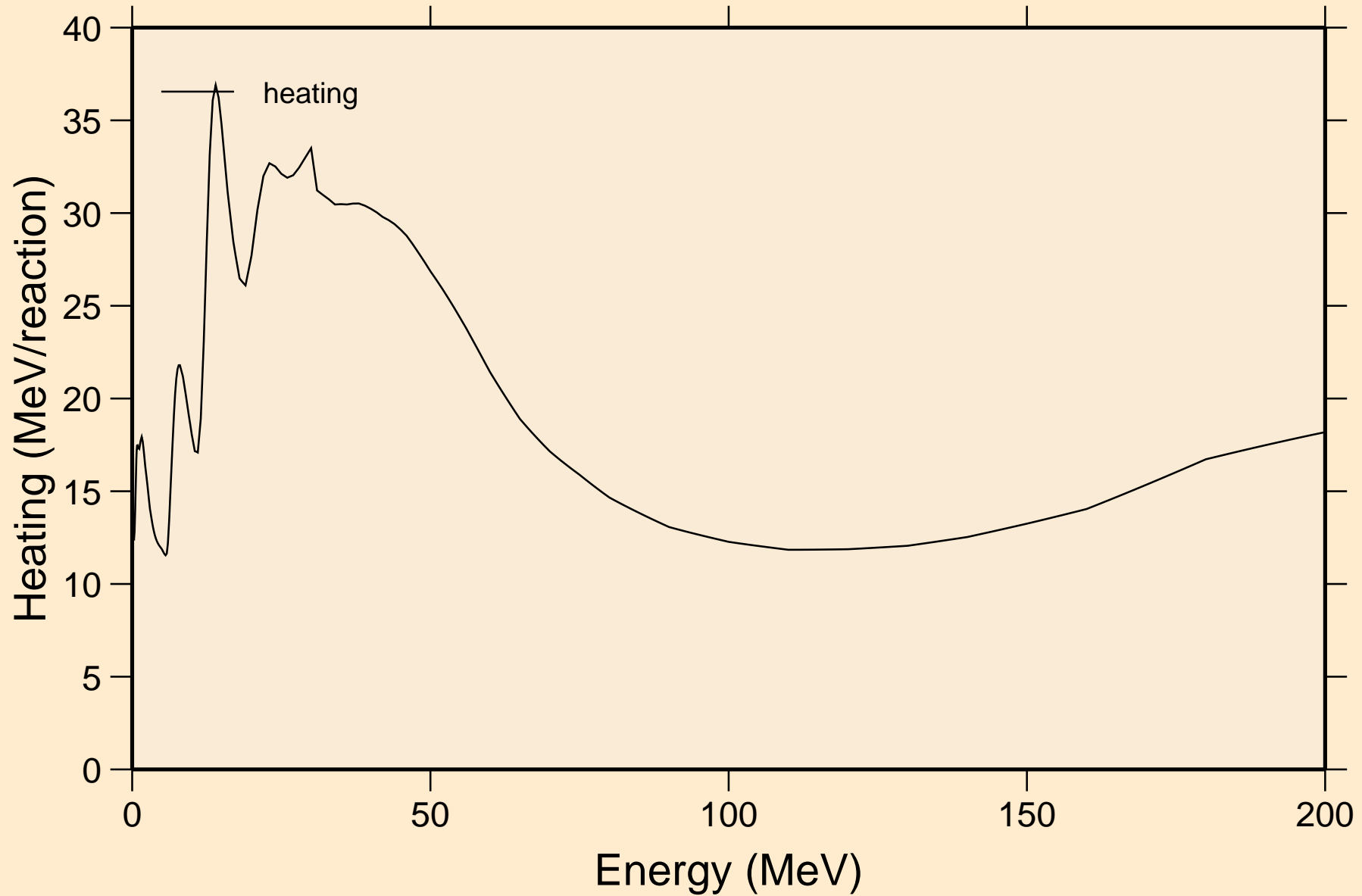
# U239 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K

## Principal cross sections

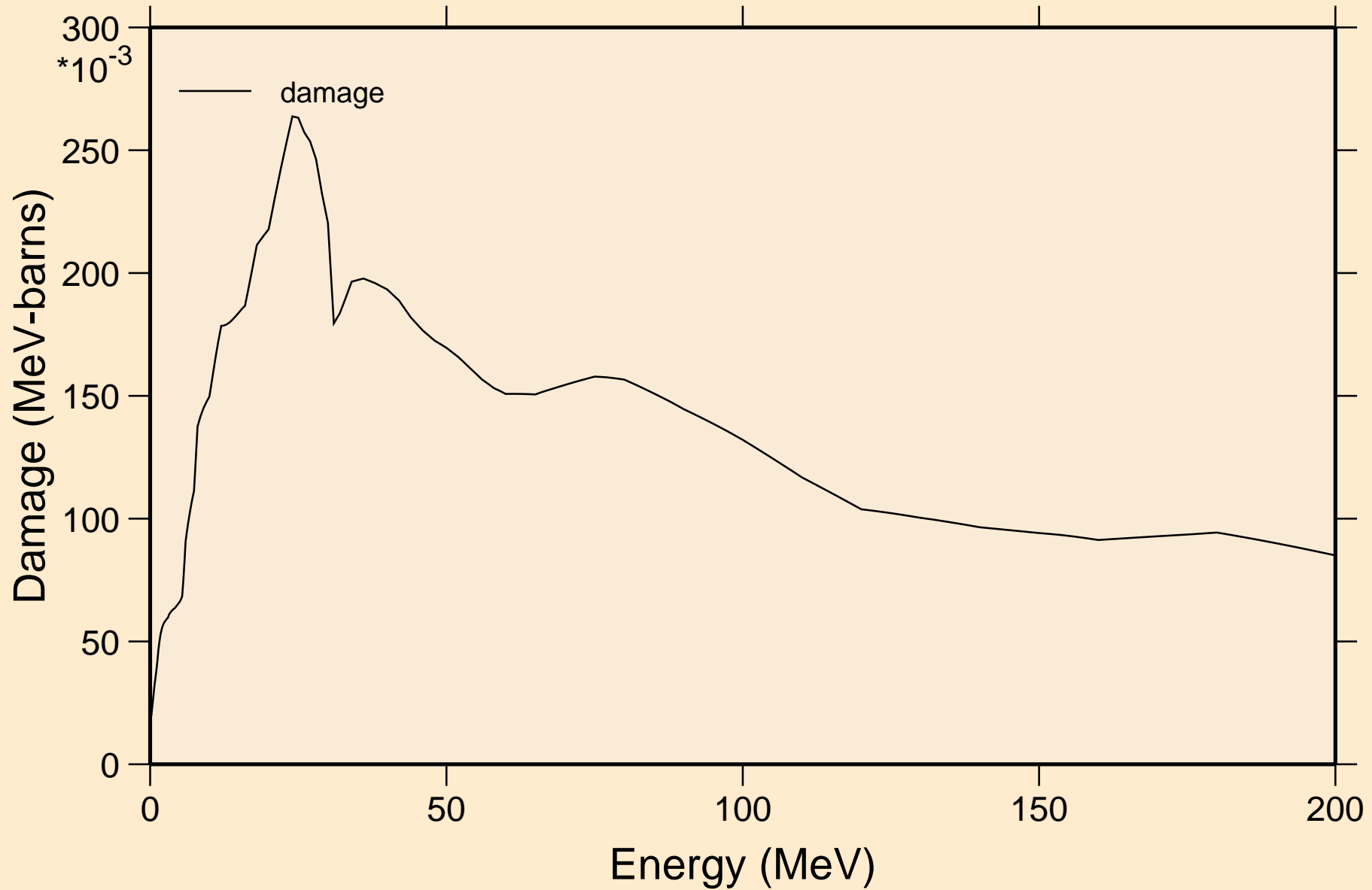


# U239 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K

## Heating

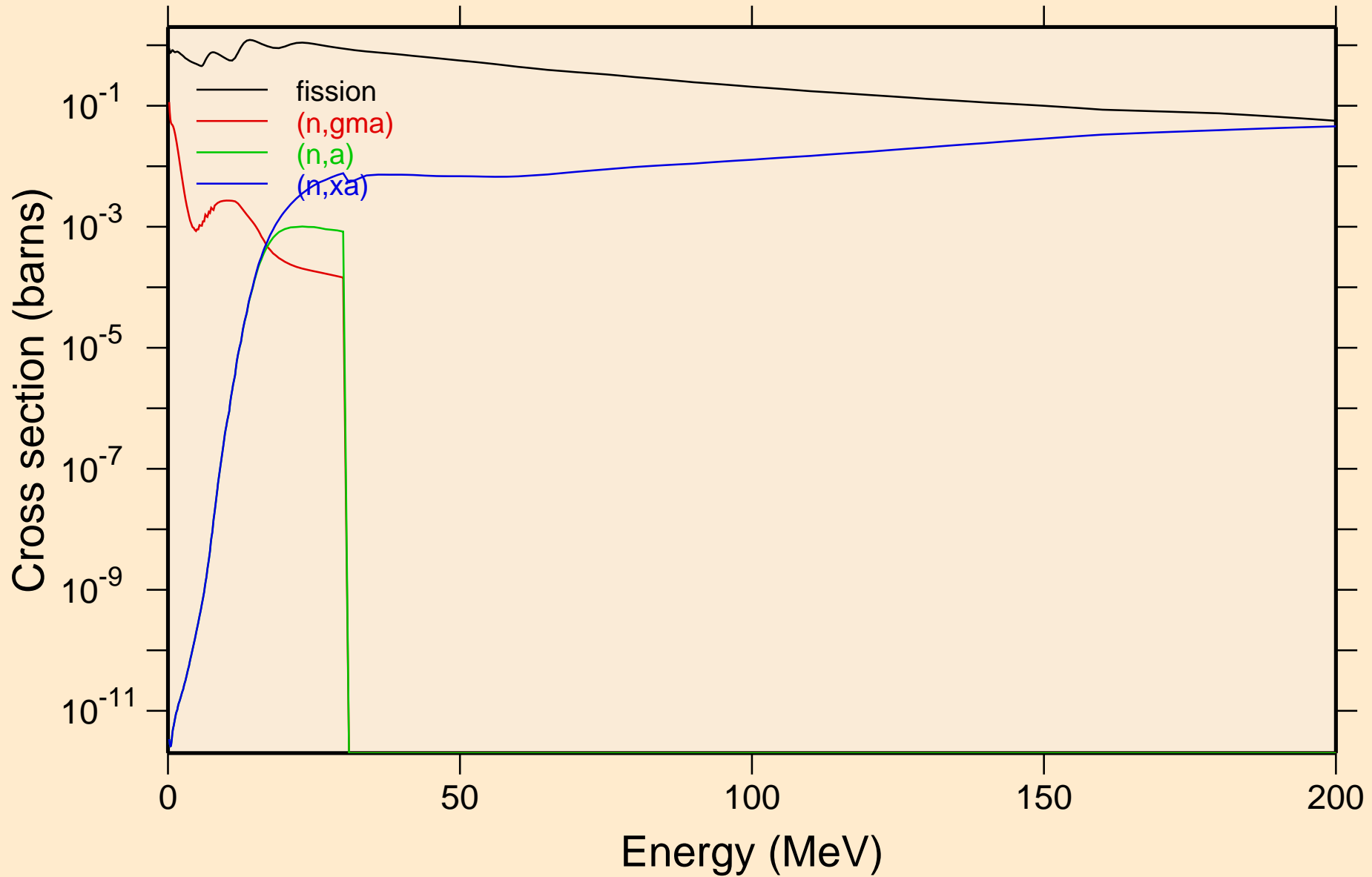


U239 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Damage

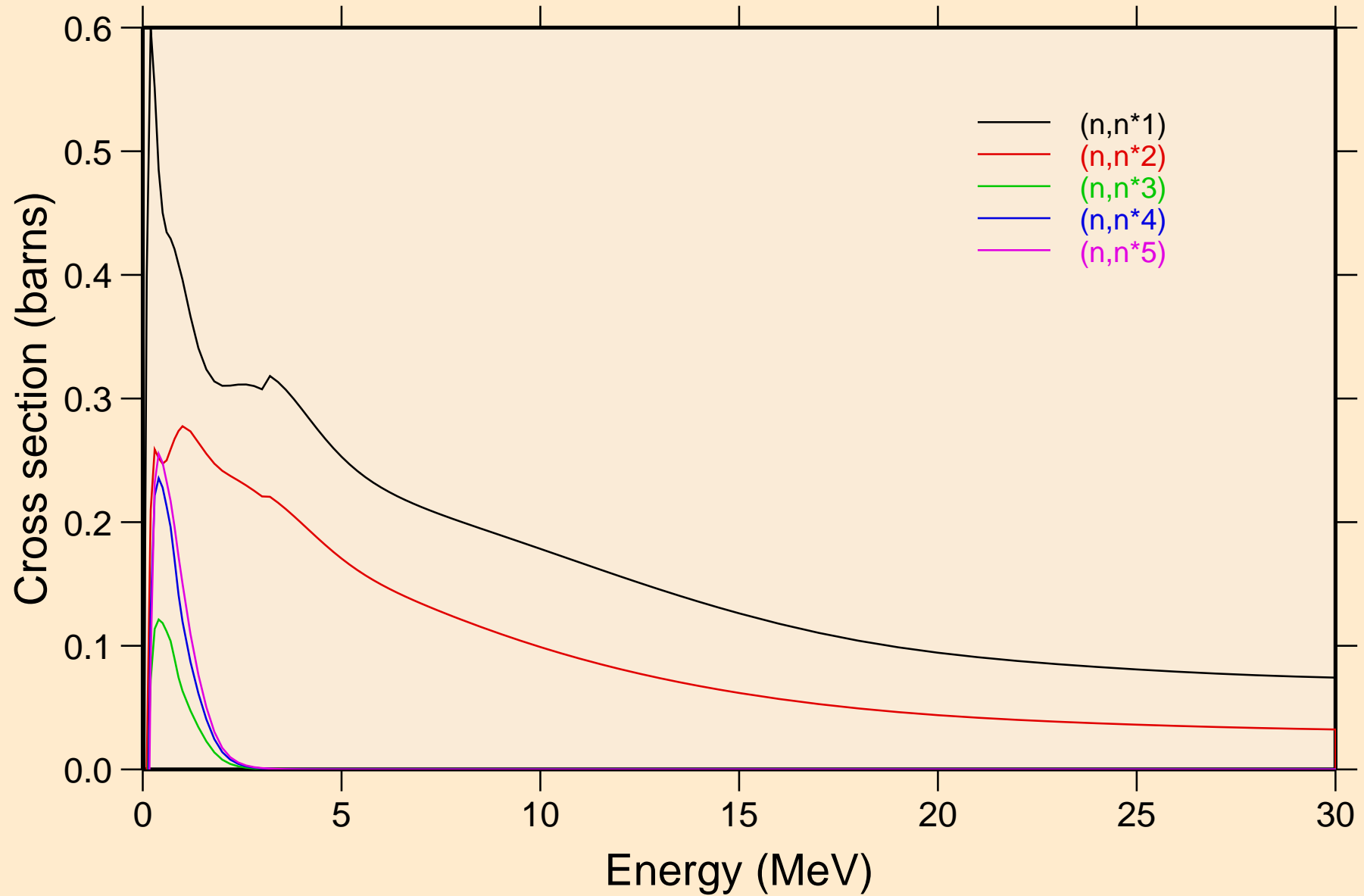


# U239 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K

## Non-threshold reactions

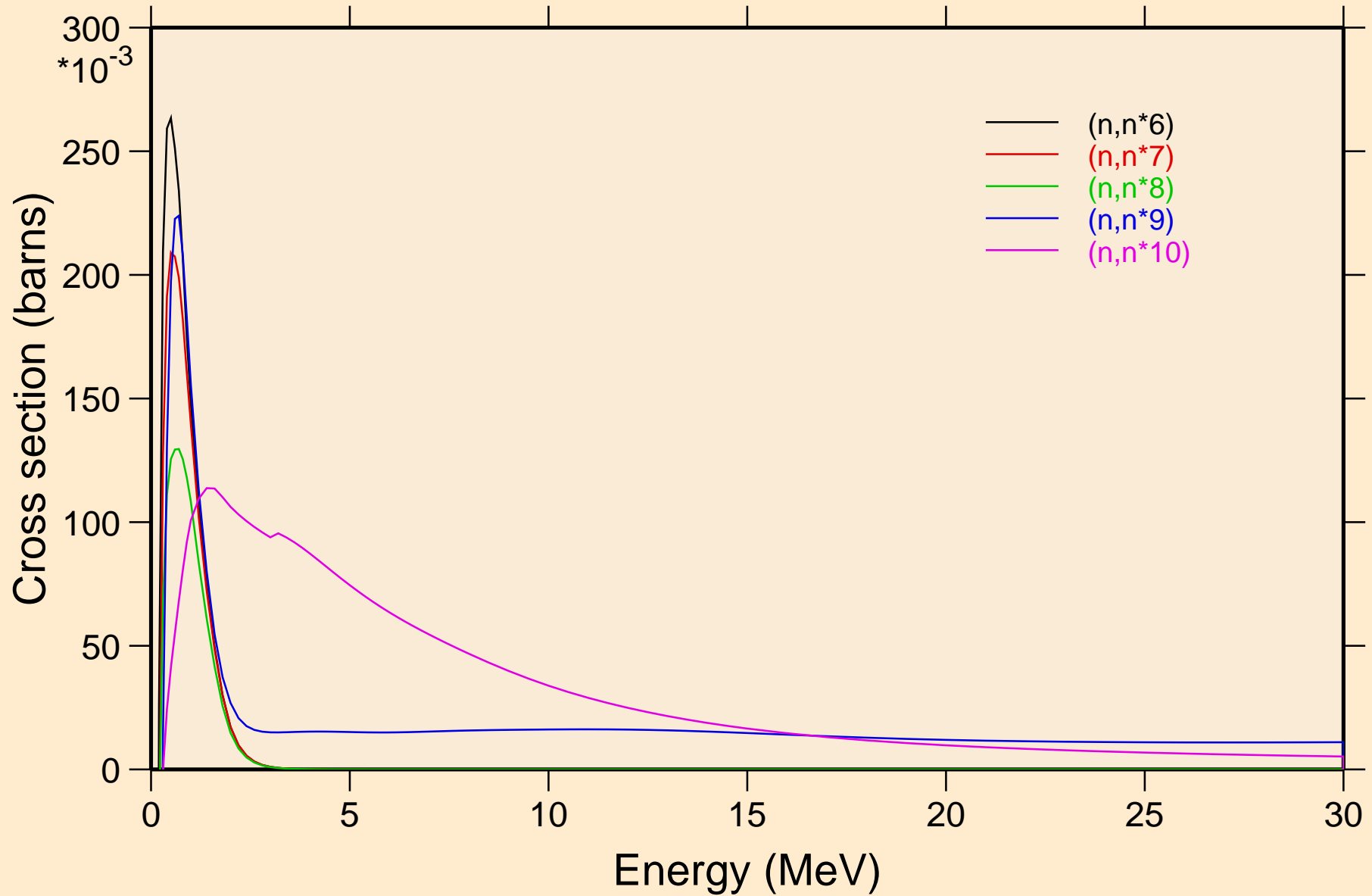


U239 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Inelastic levels

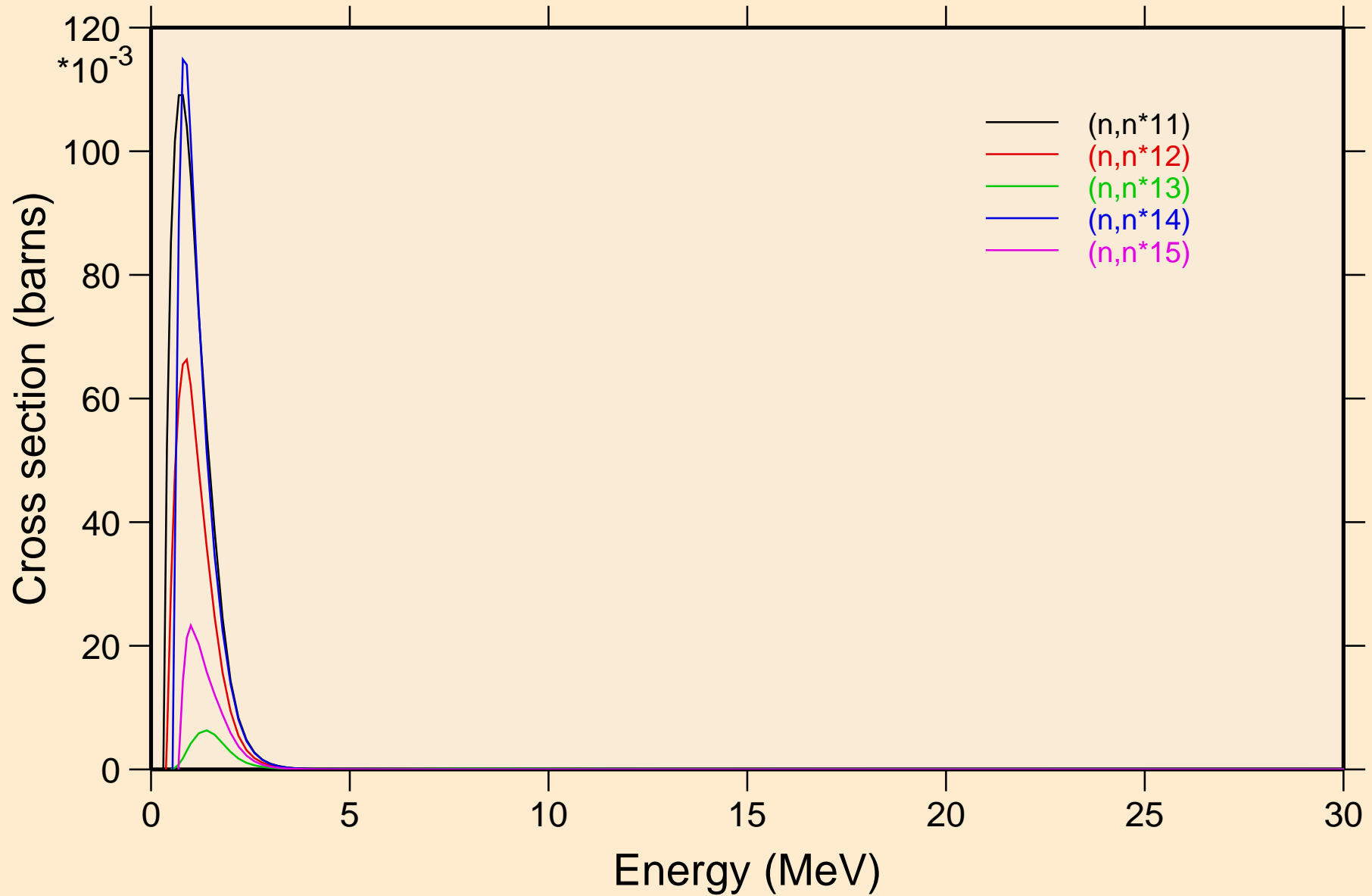


# U239 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K

## Inelastic levels

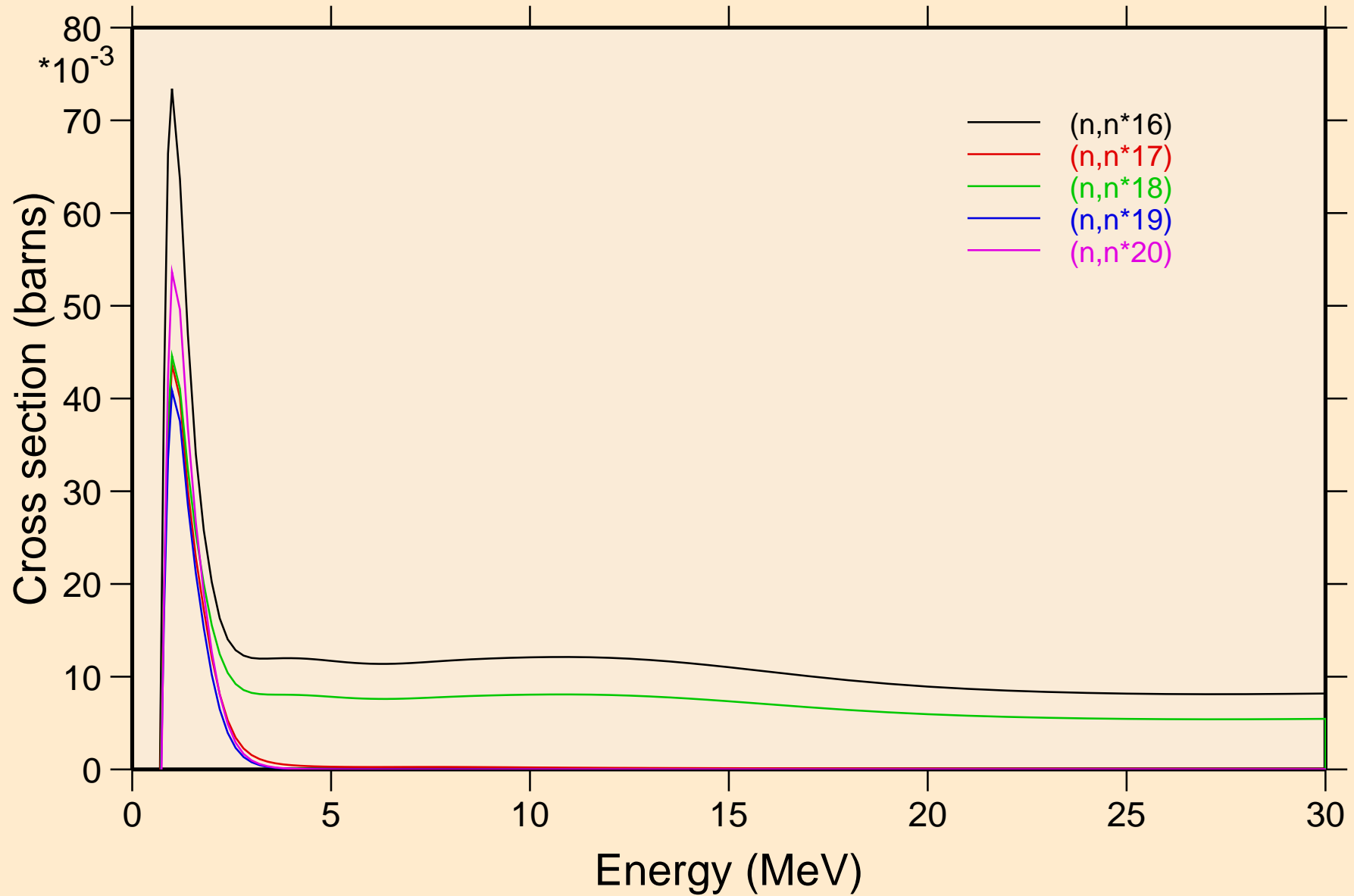


U239 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Inelastic levels

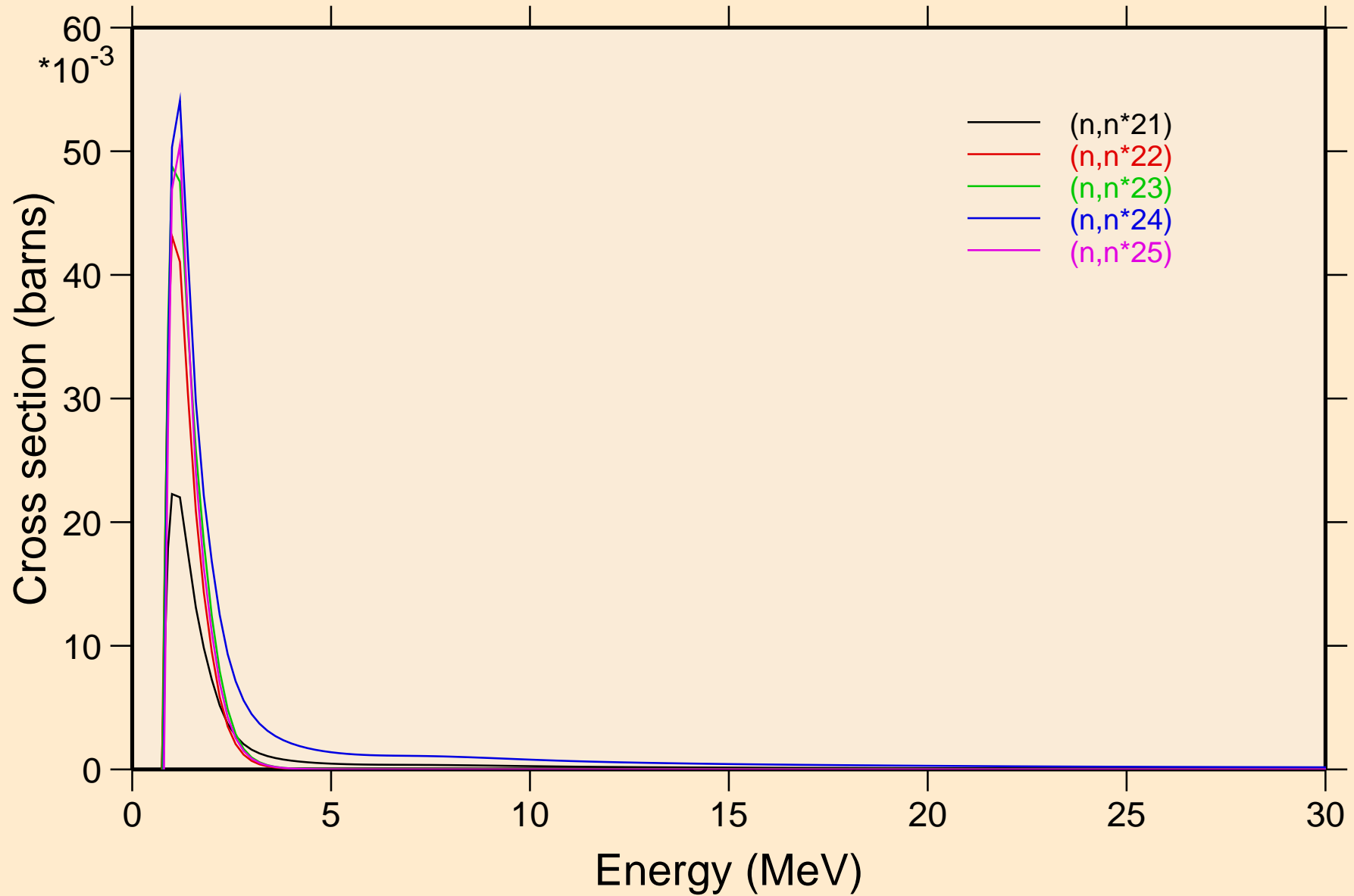


# U239 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K

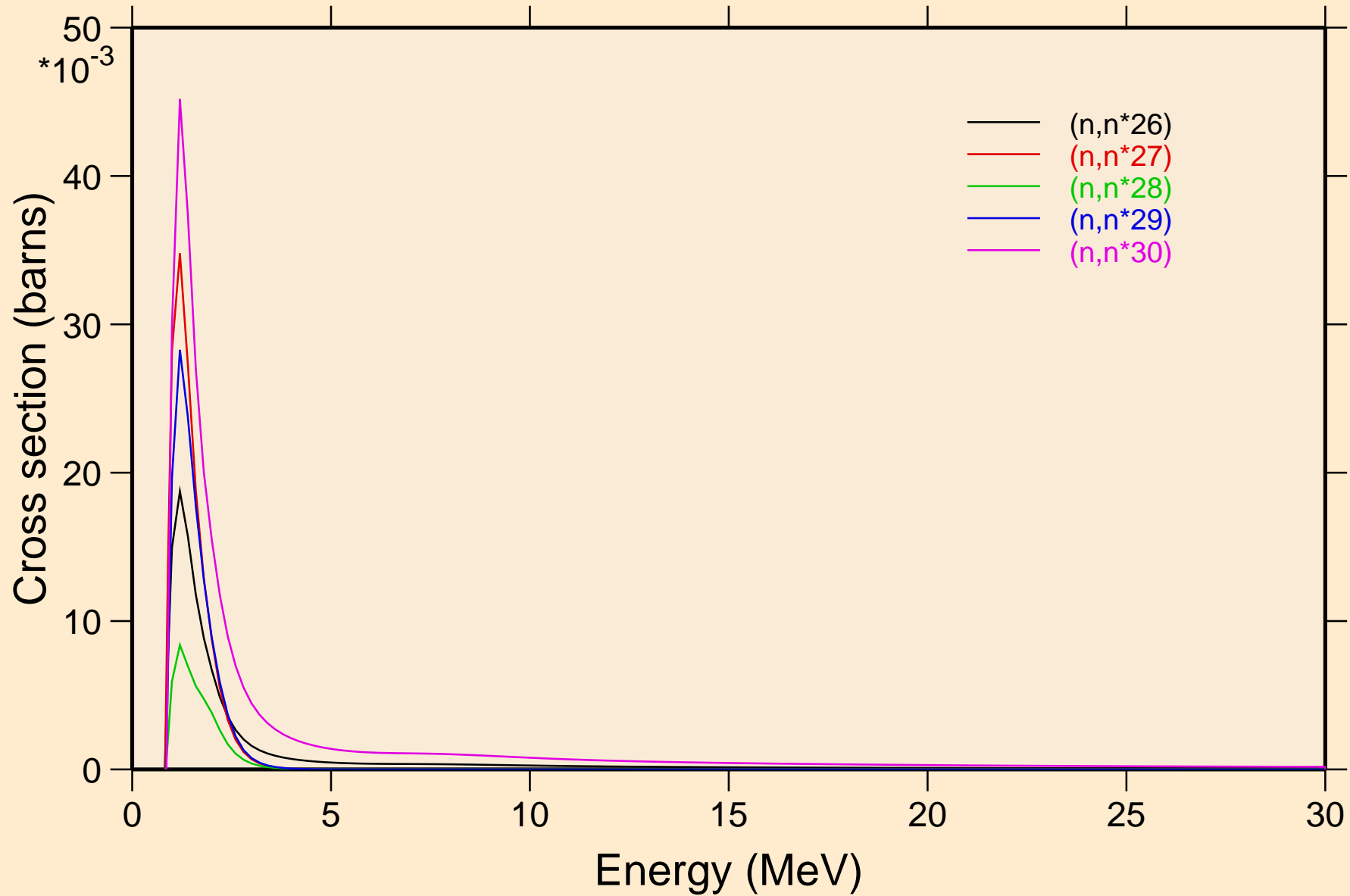
## Inelastic levels



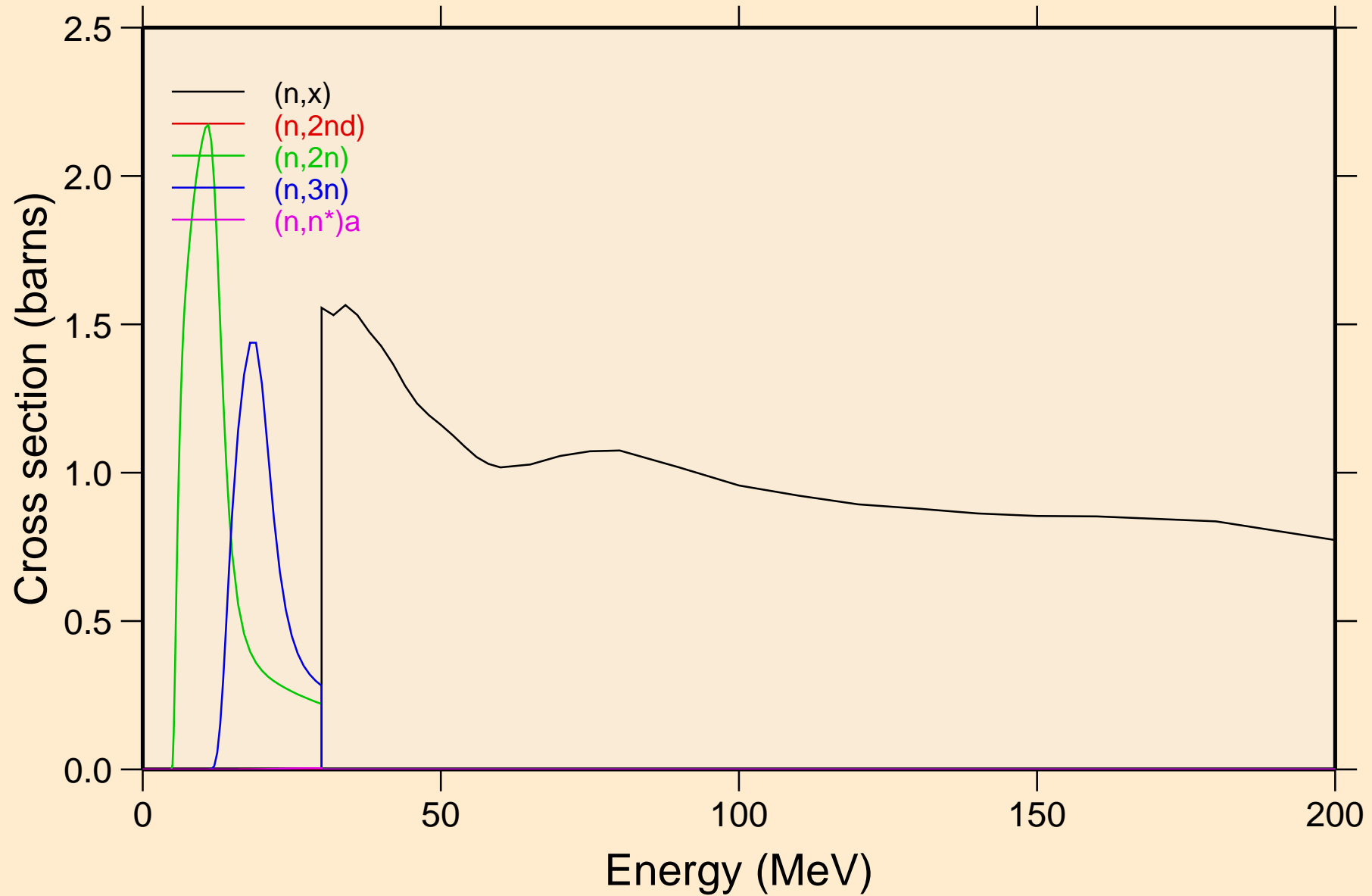
U239 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Inelastic levels



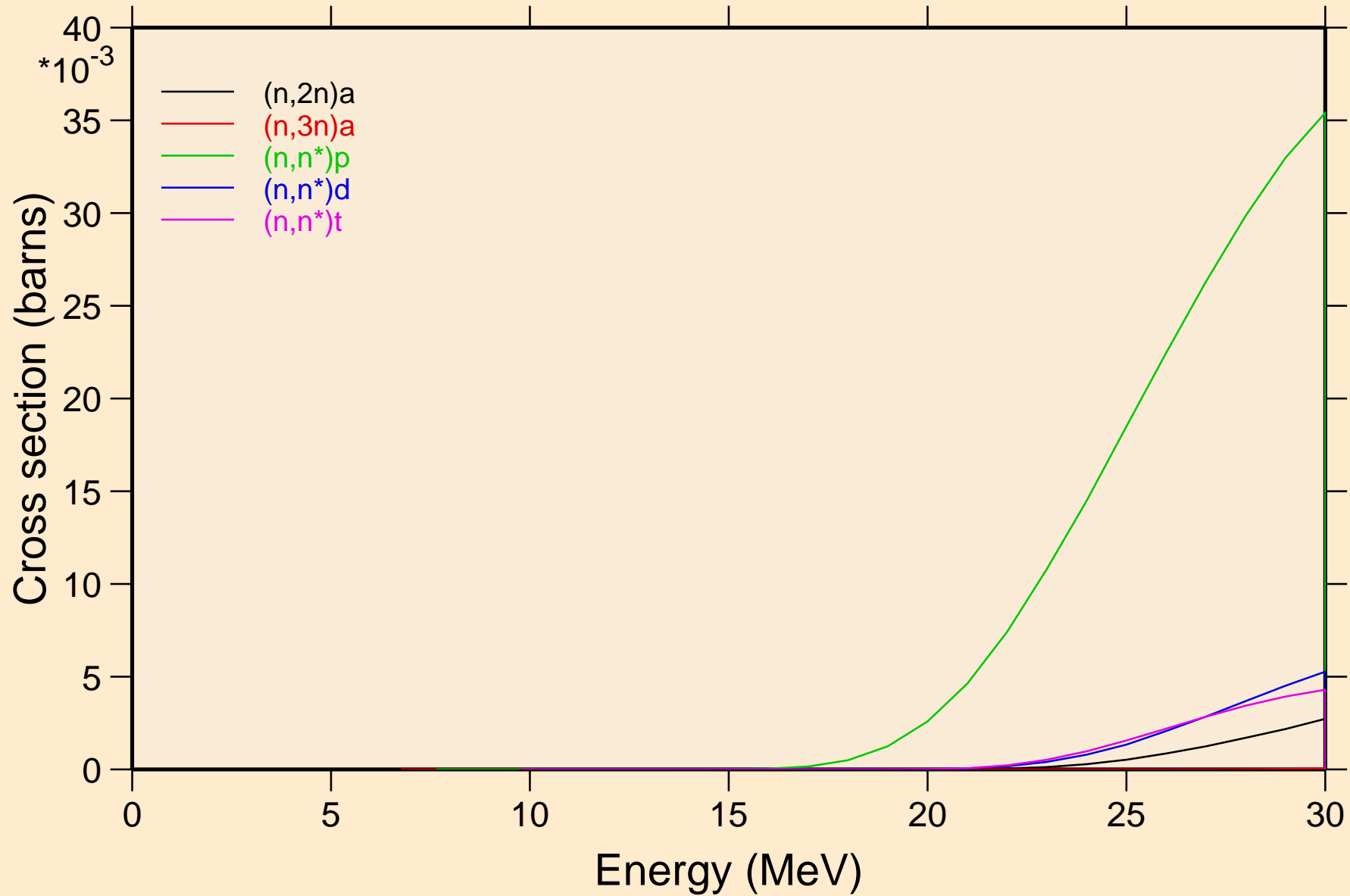
U239 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Inelastic levels



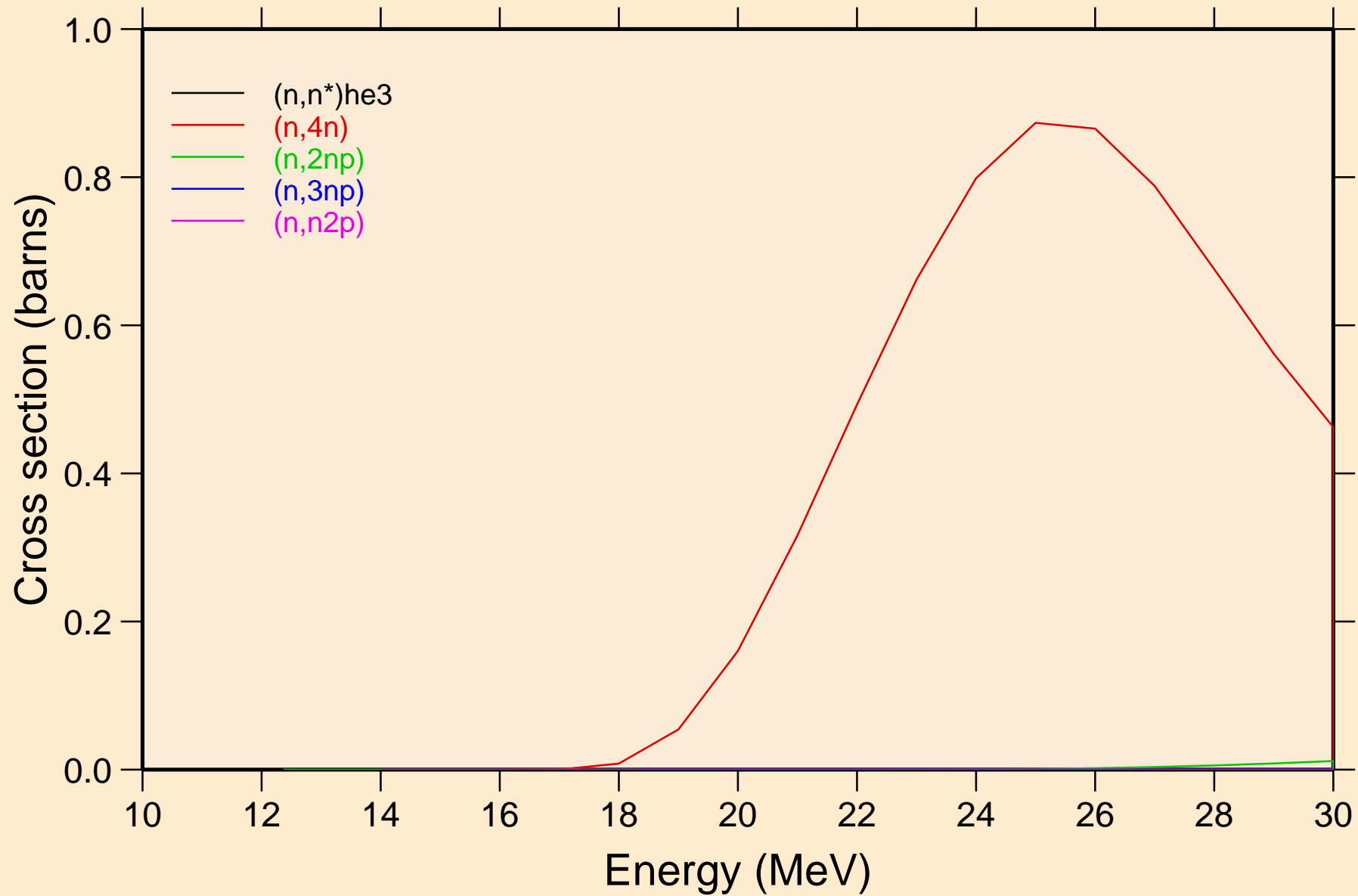
U239 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Threshold reactions



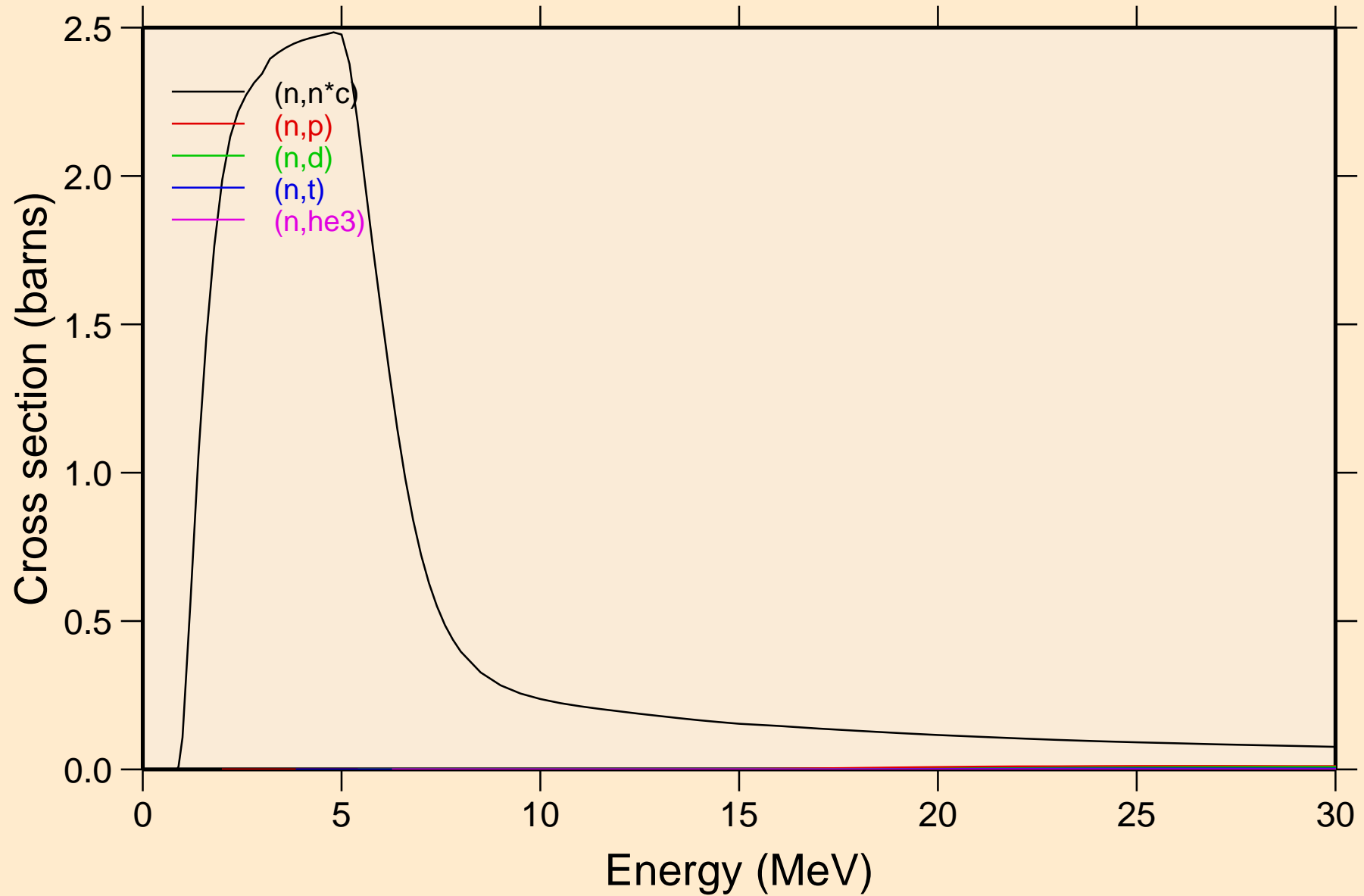
U239 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Threshold reactions



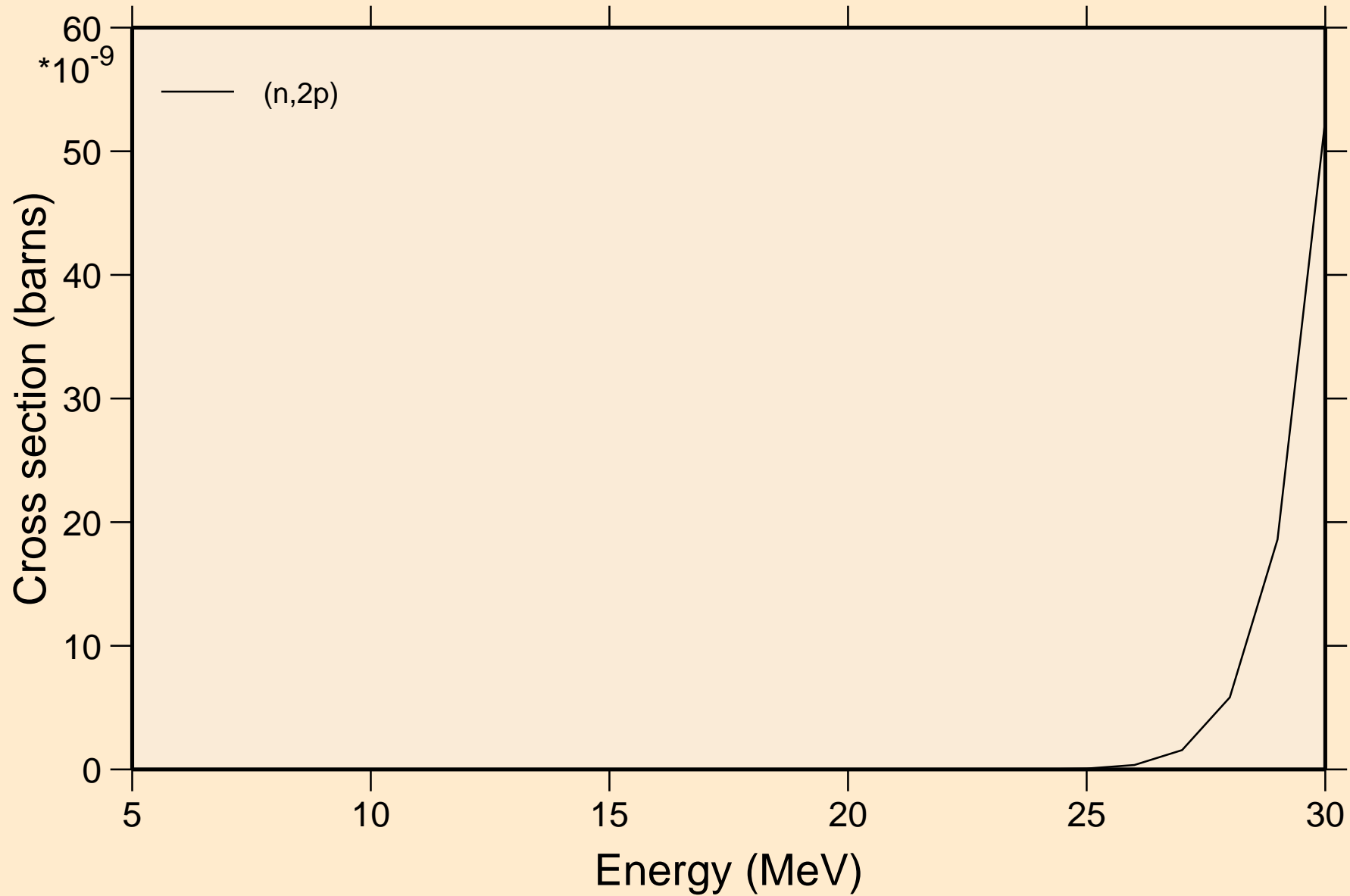
U239 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Threshold reactions



U239 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Threshold reactions

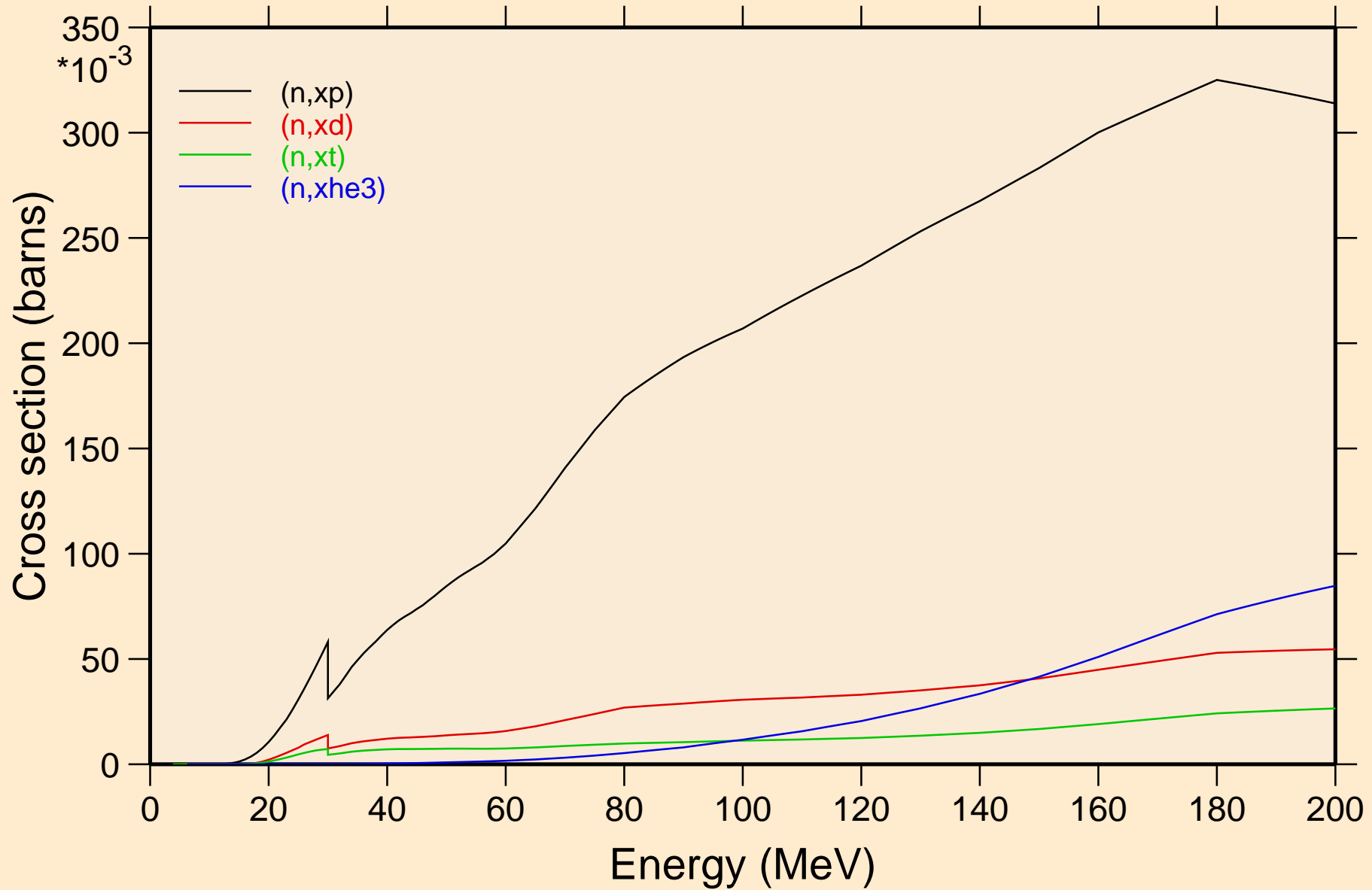


U239 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Threshold reactions

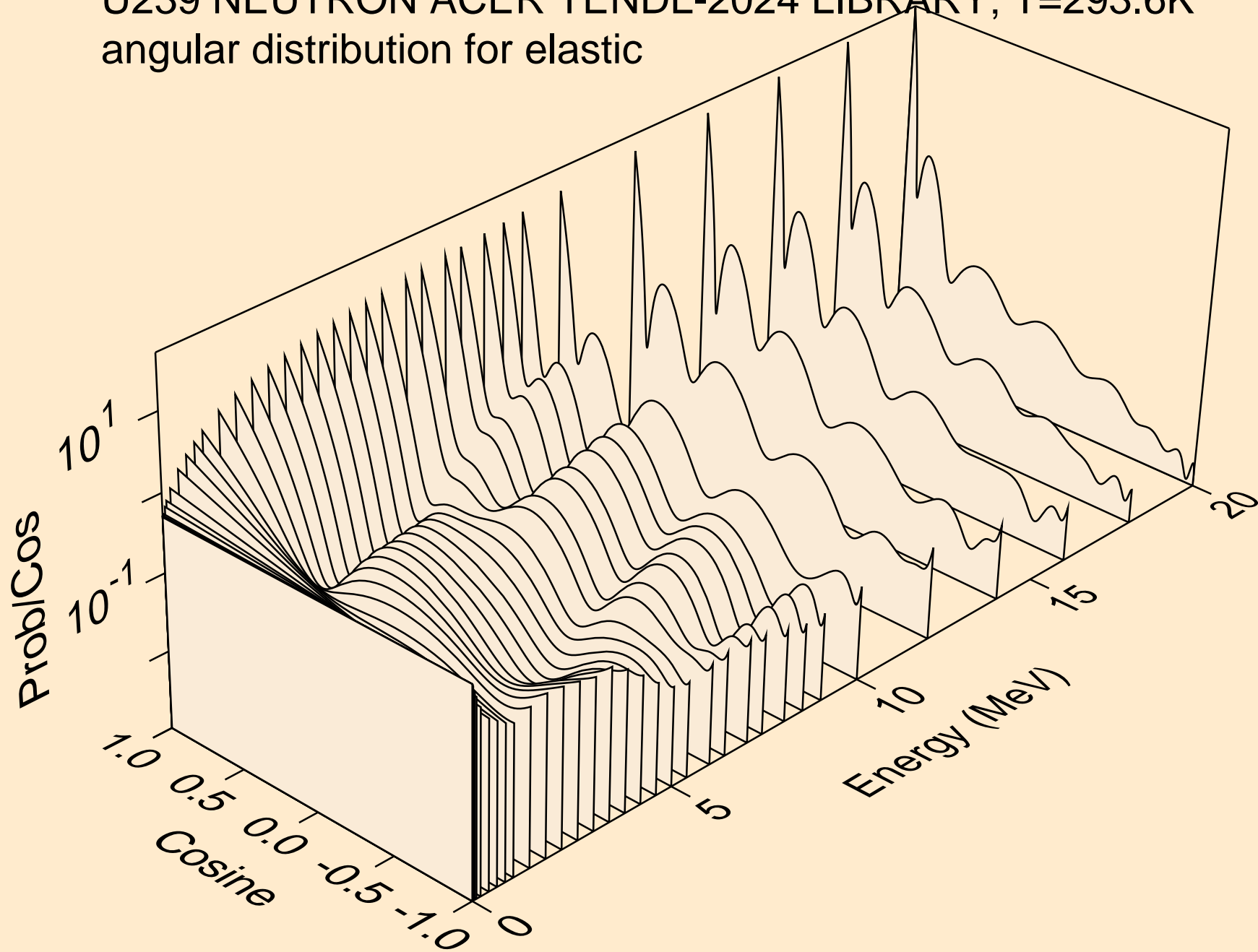


# U239 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K

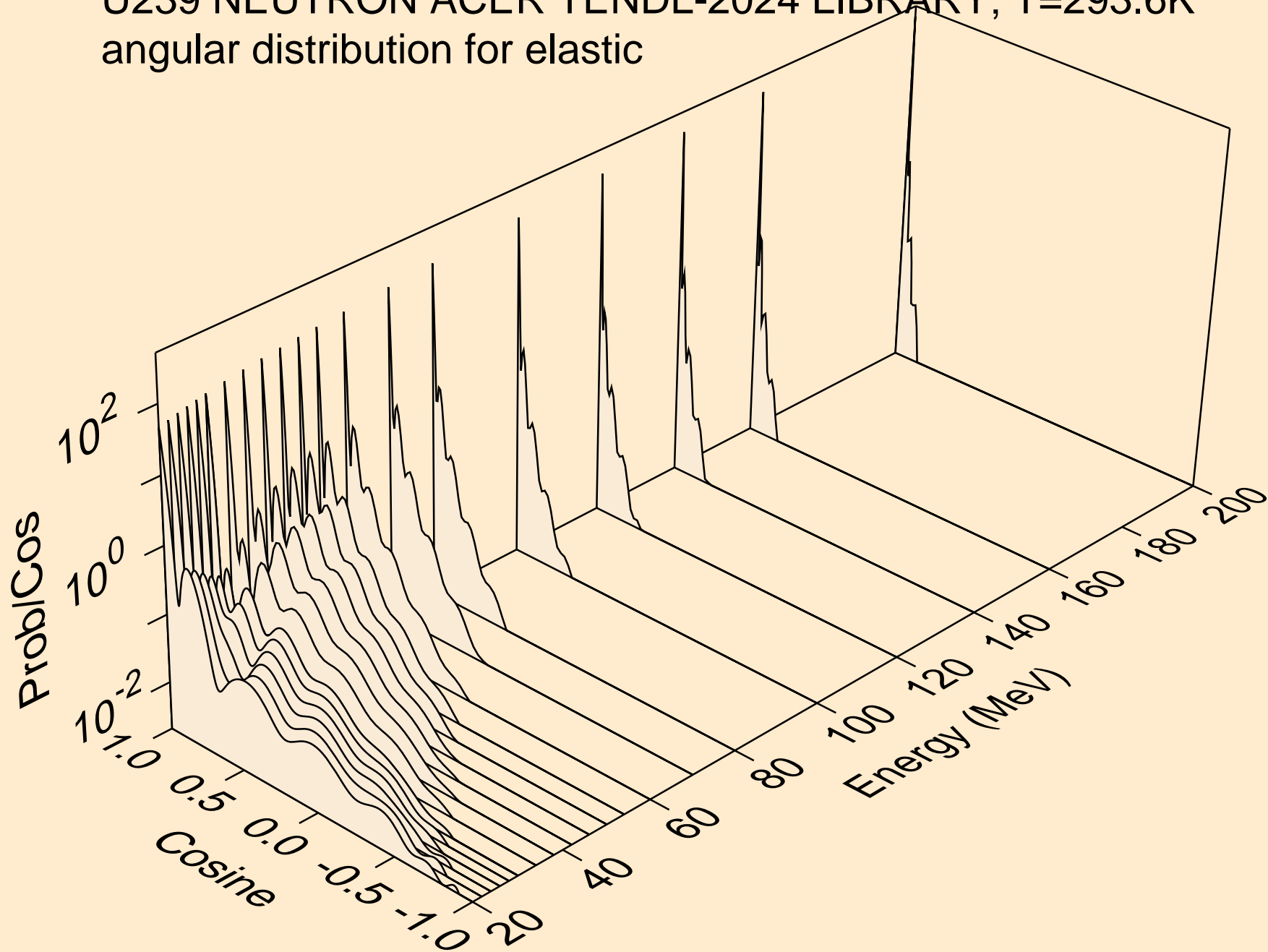
## Threshold reactions



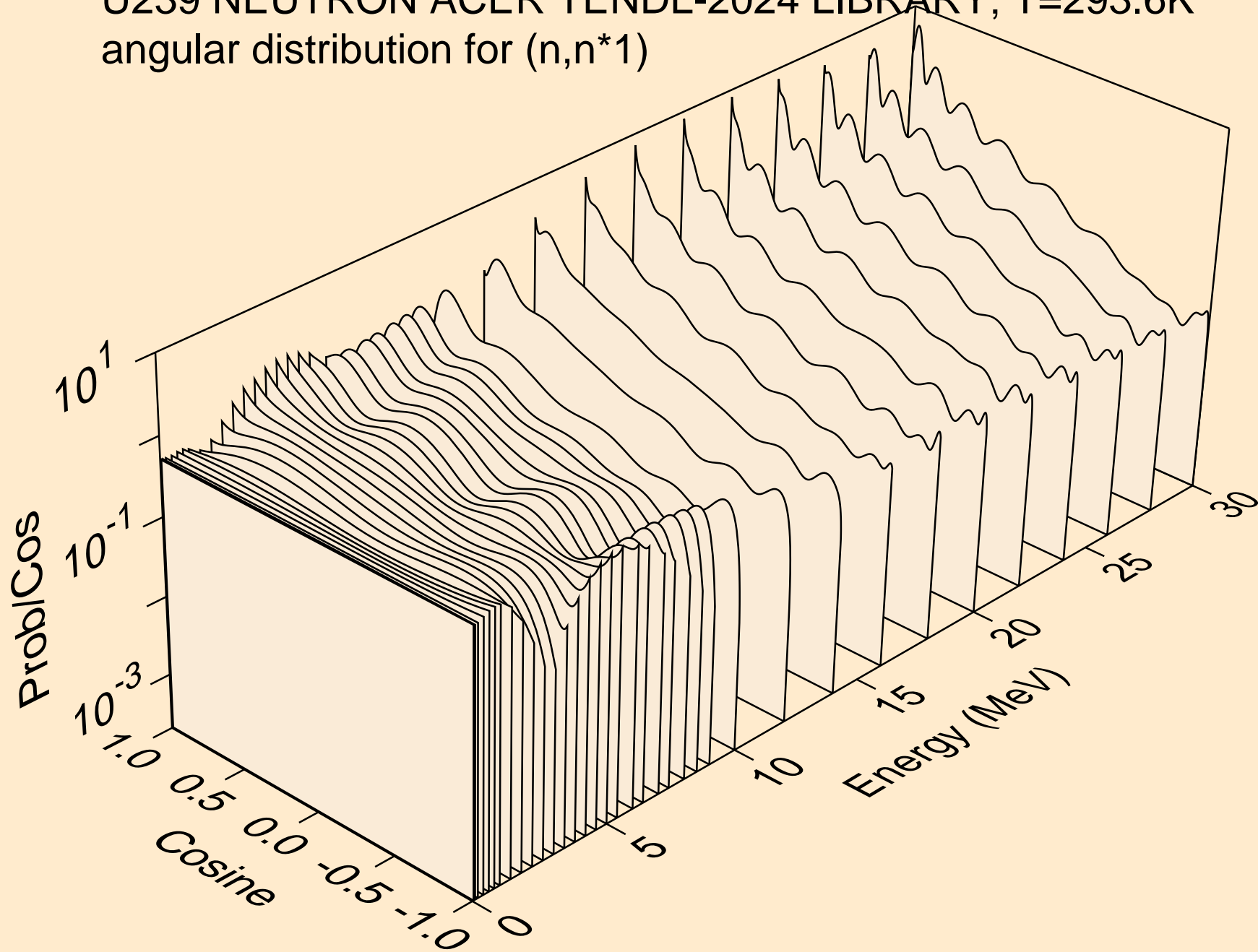
U239 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
angular distribution for elastic



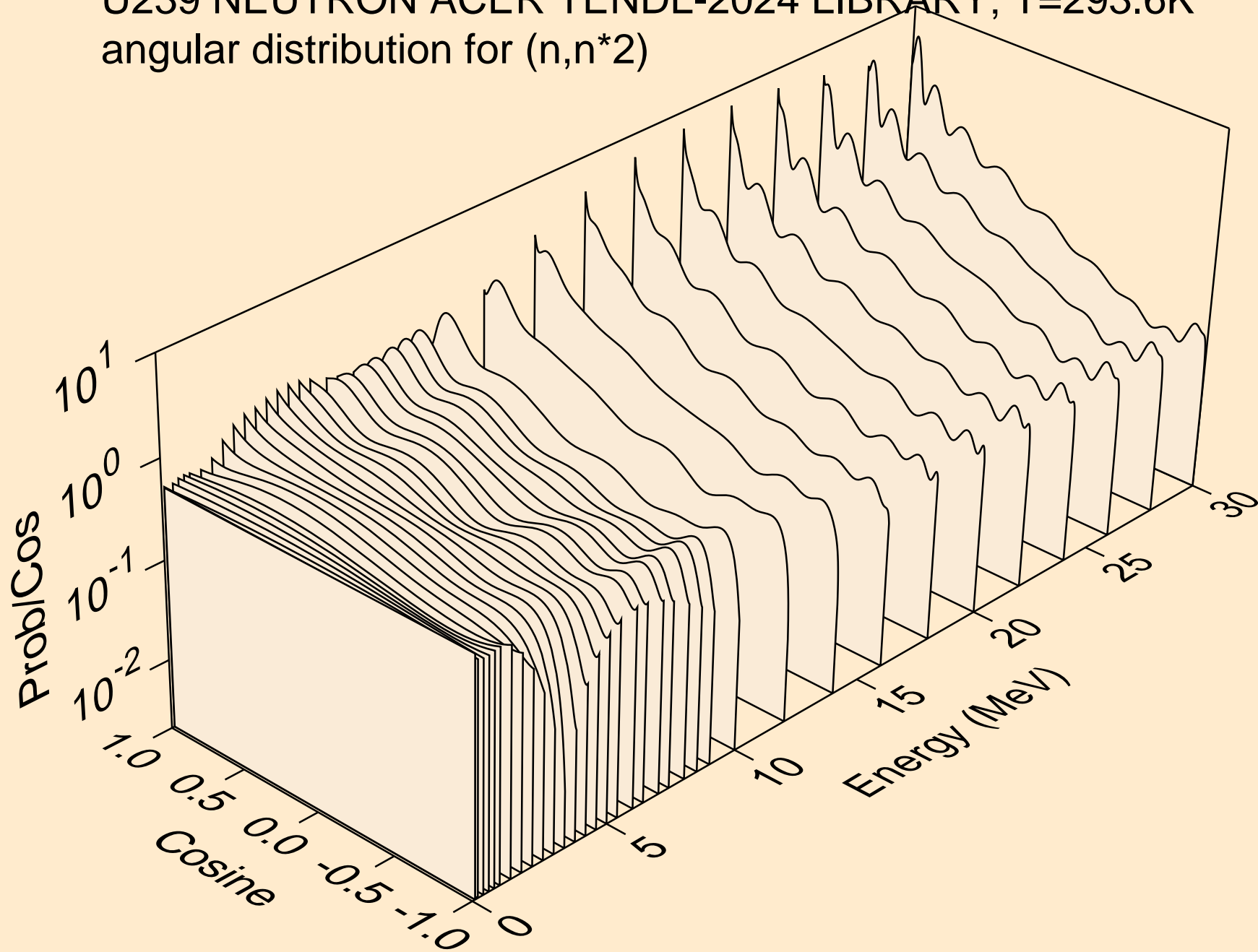
U239 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
angular distribution for elastic



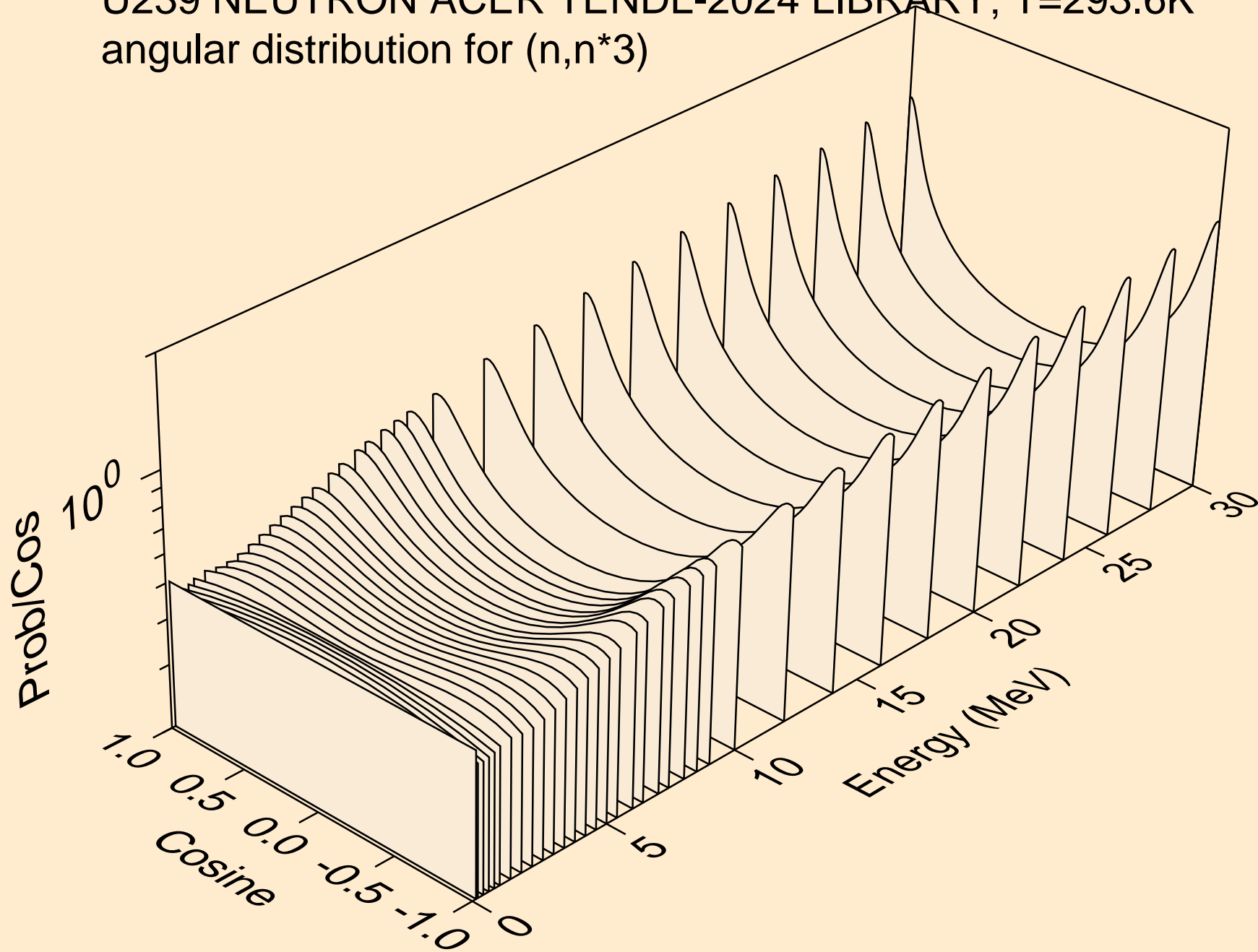
U239 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
angular distribution for (n,n\*1)



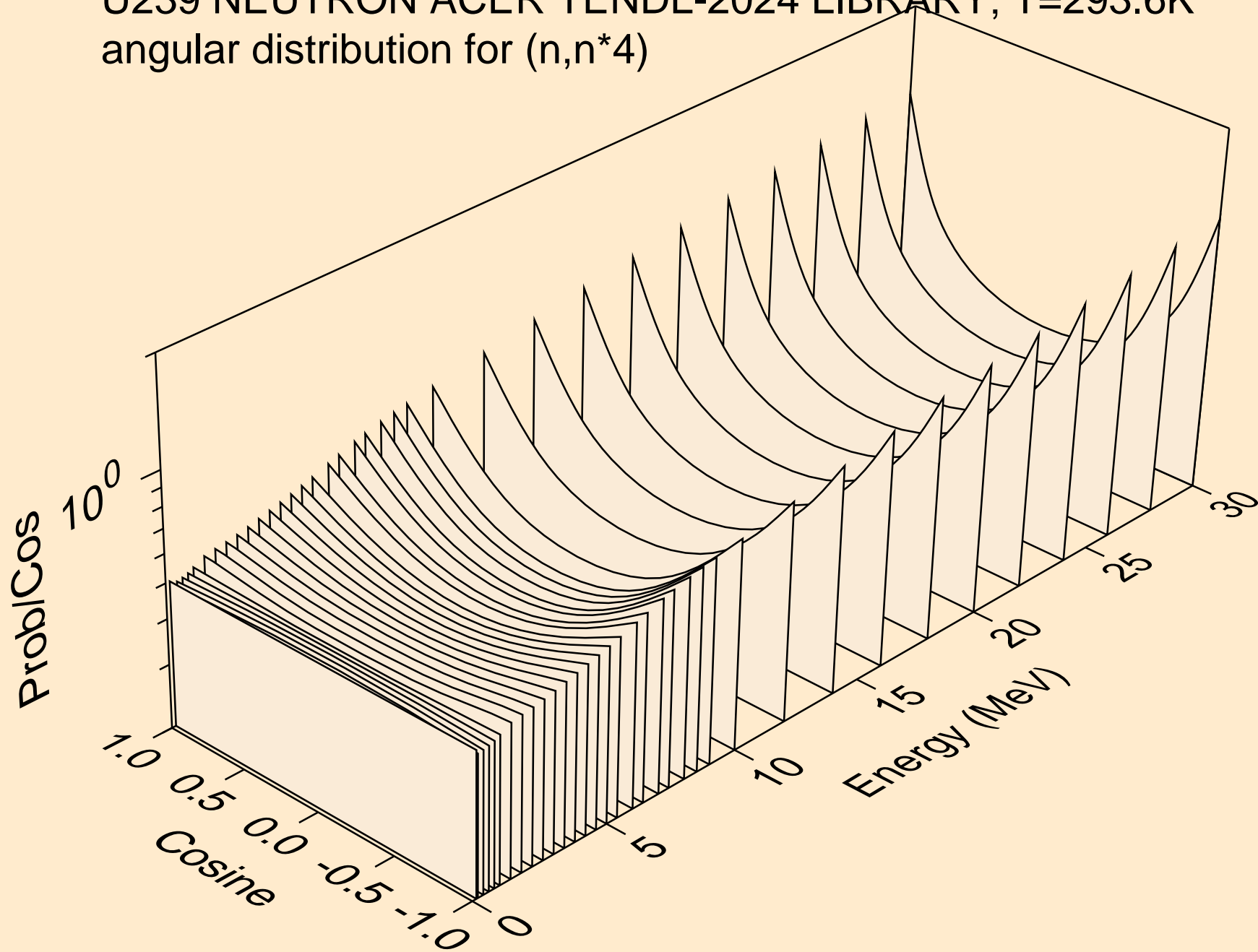
U239 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
angular distribution for (n,n\*2)



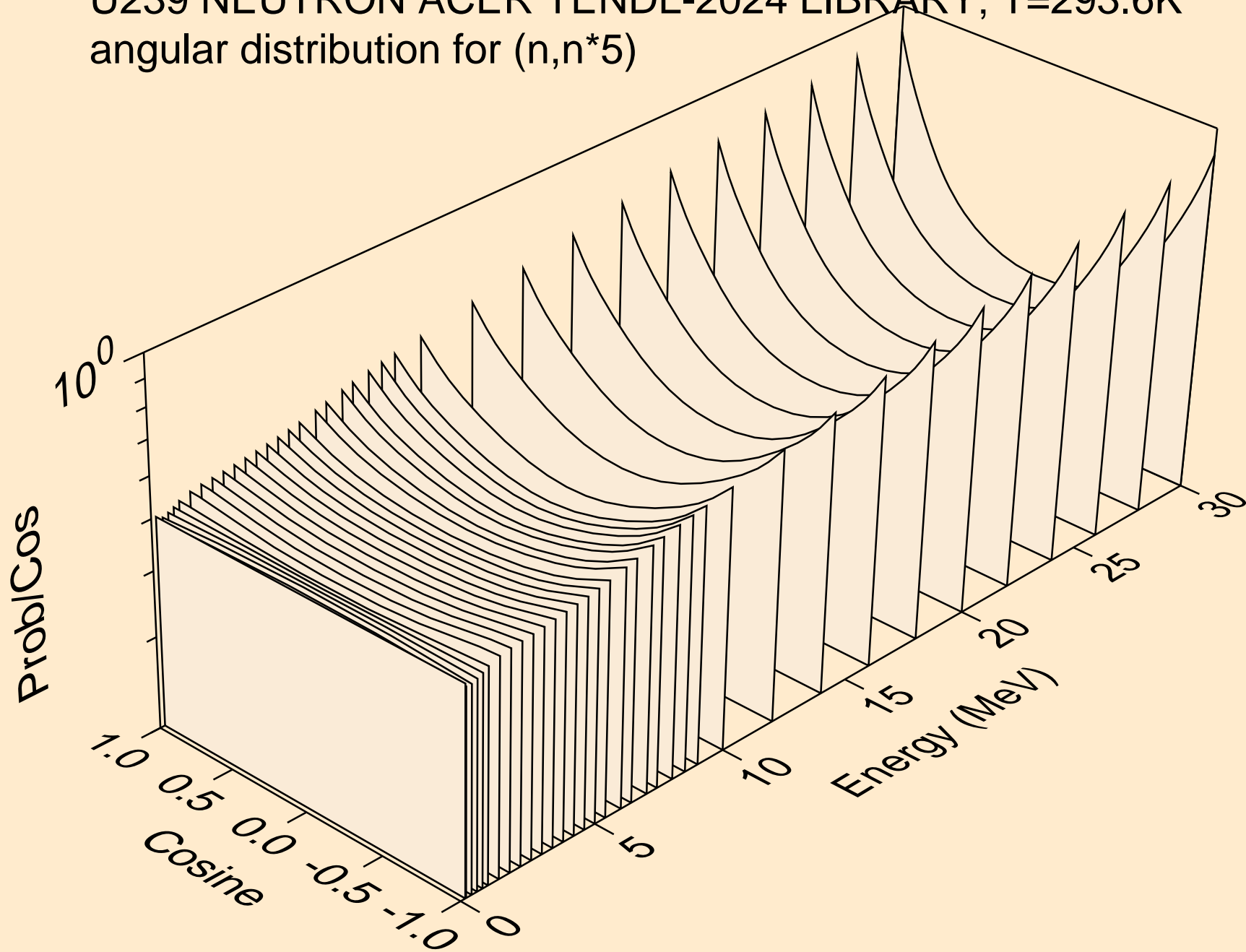
U239 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
angular distribution for (n,n\*3)



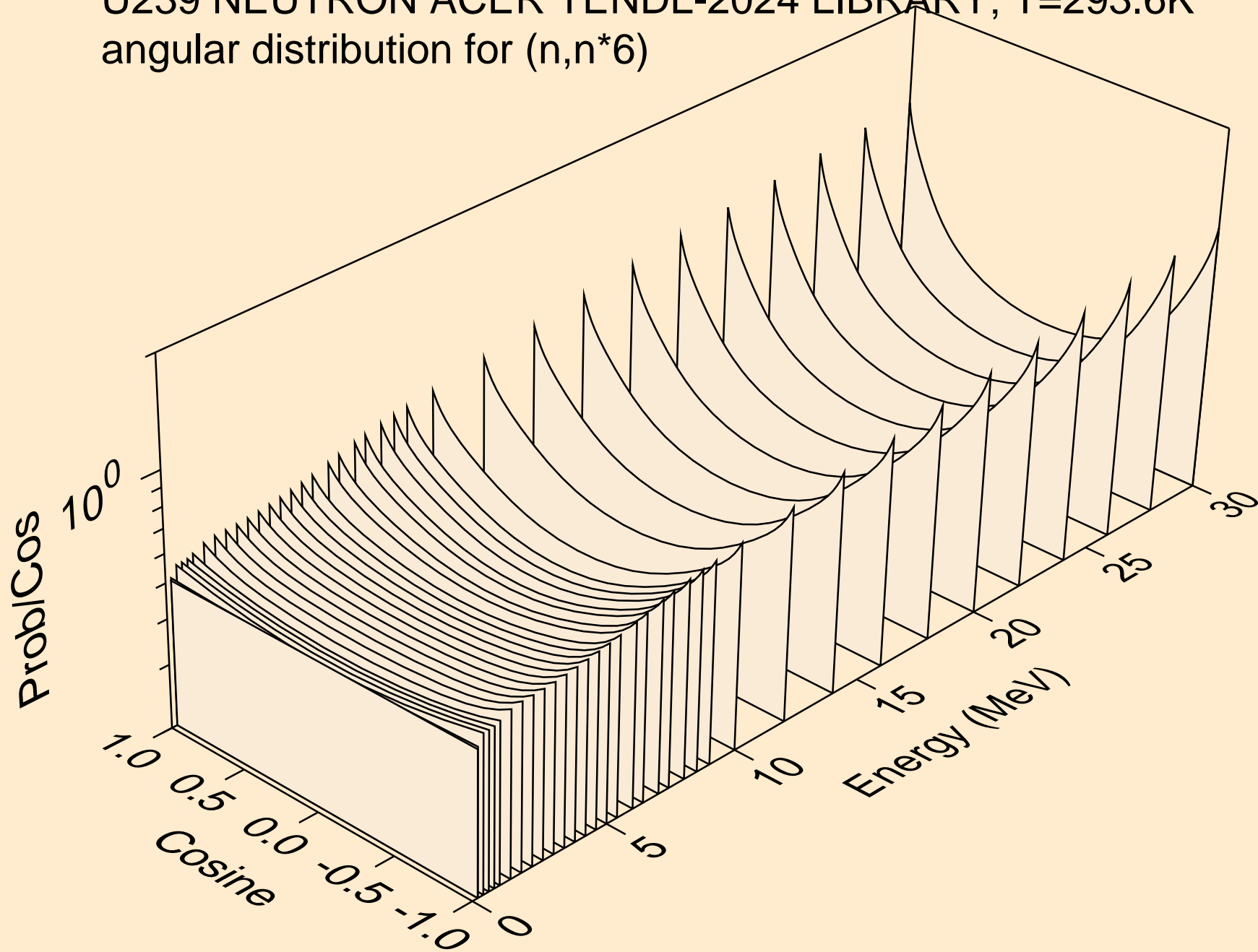
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angular distribution for (n,n\*4)



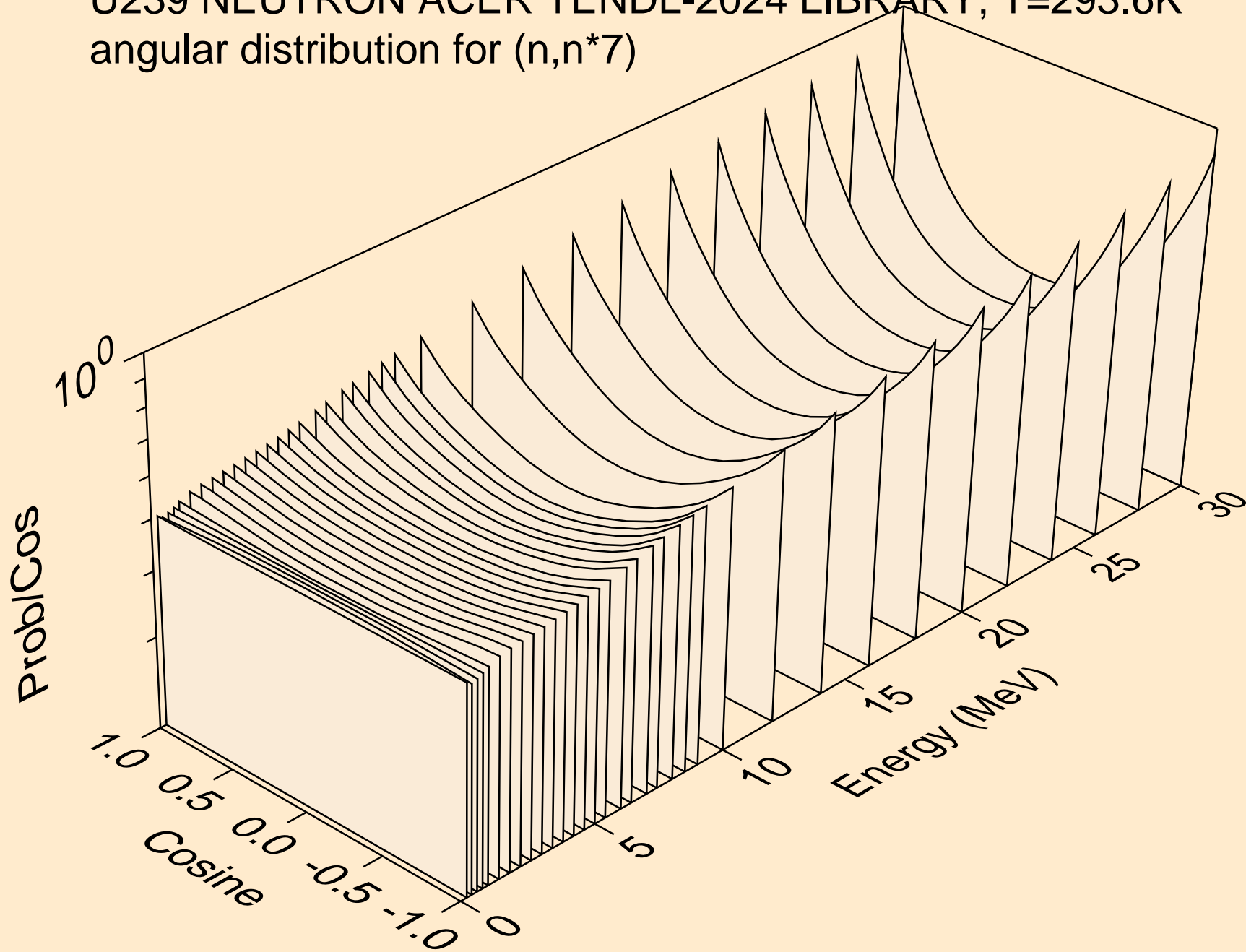
U239 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
angular distribution for (n,n\*5)



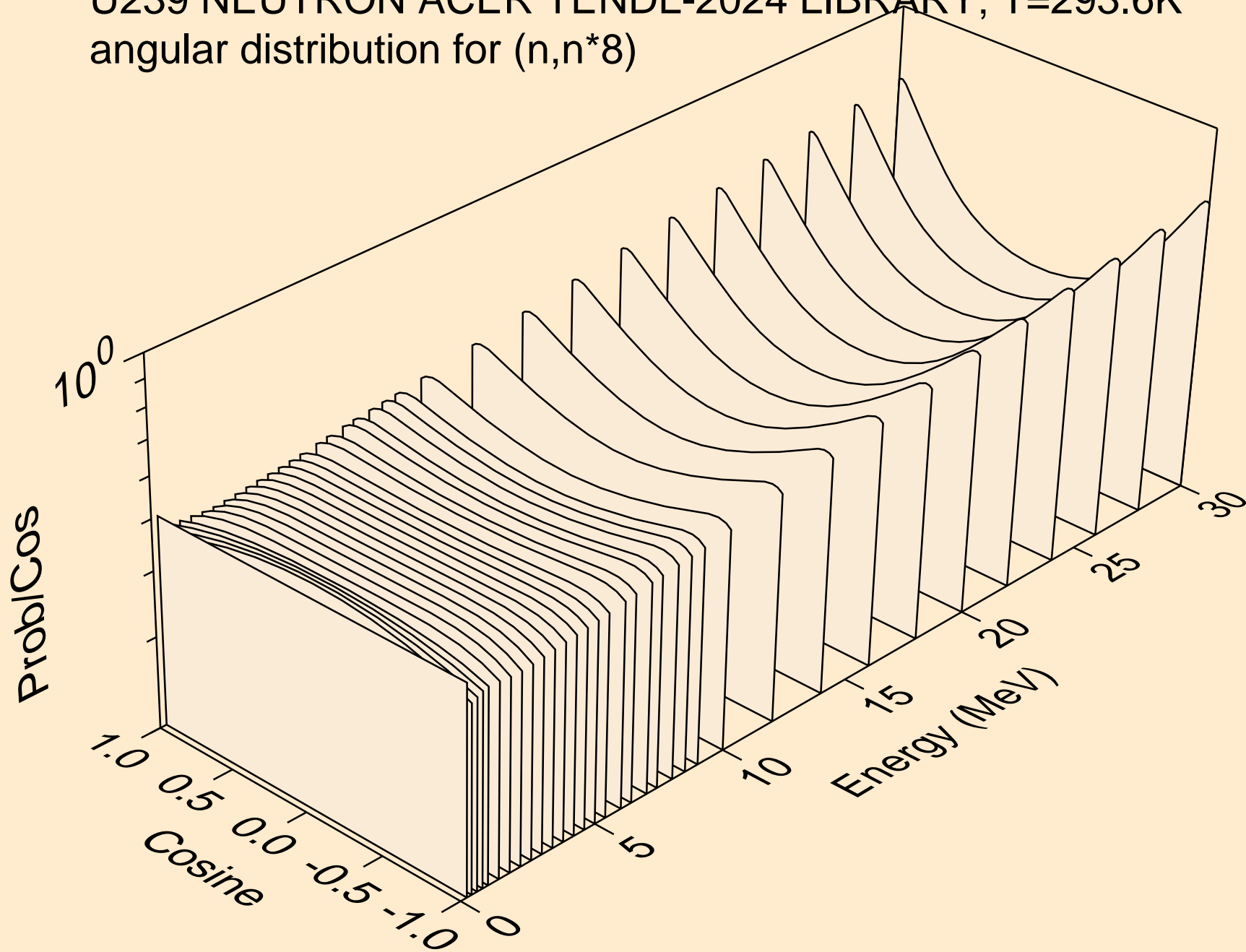
U239 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
angular distribution for (n,n\*6)



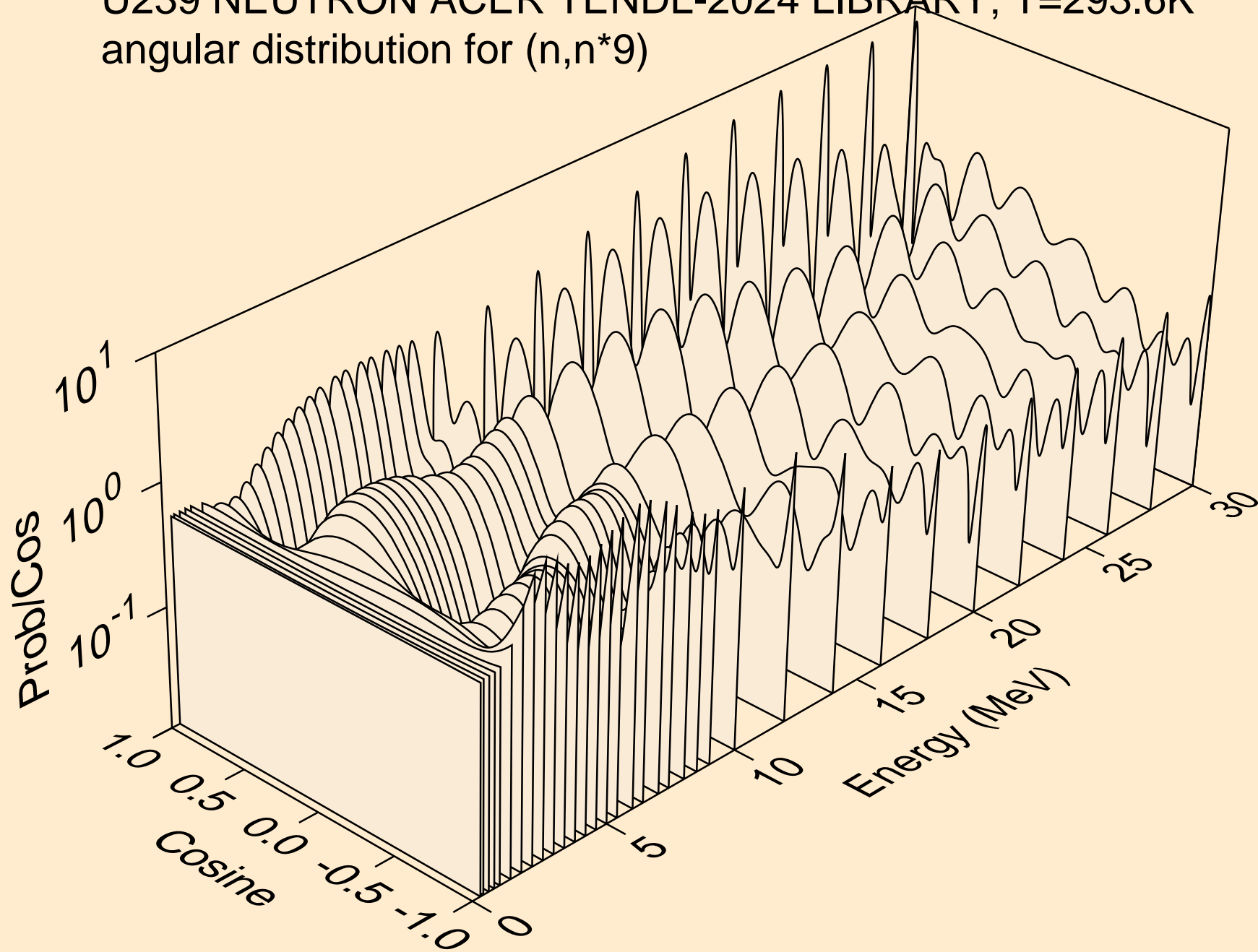
U239 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
angular distribution for (n,n\*7)



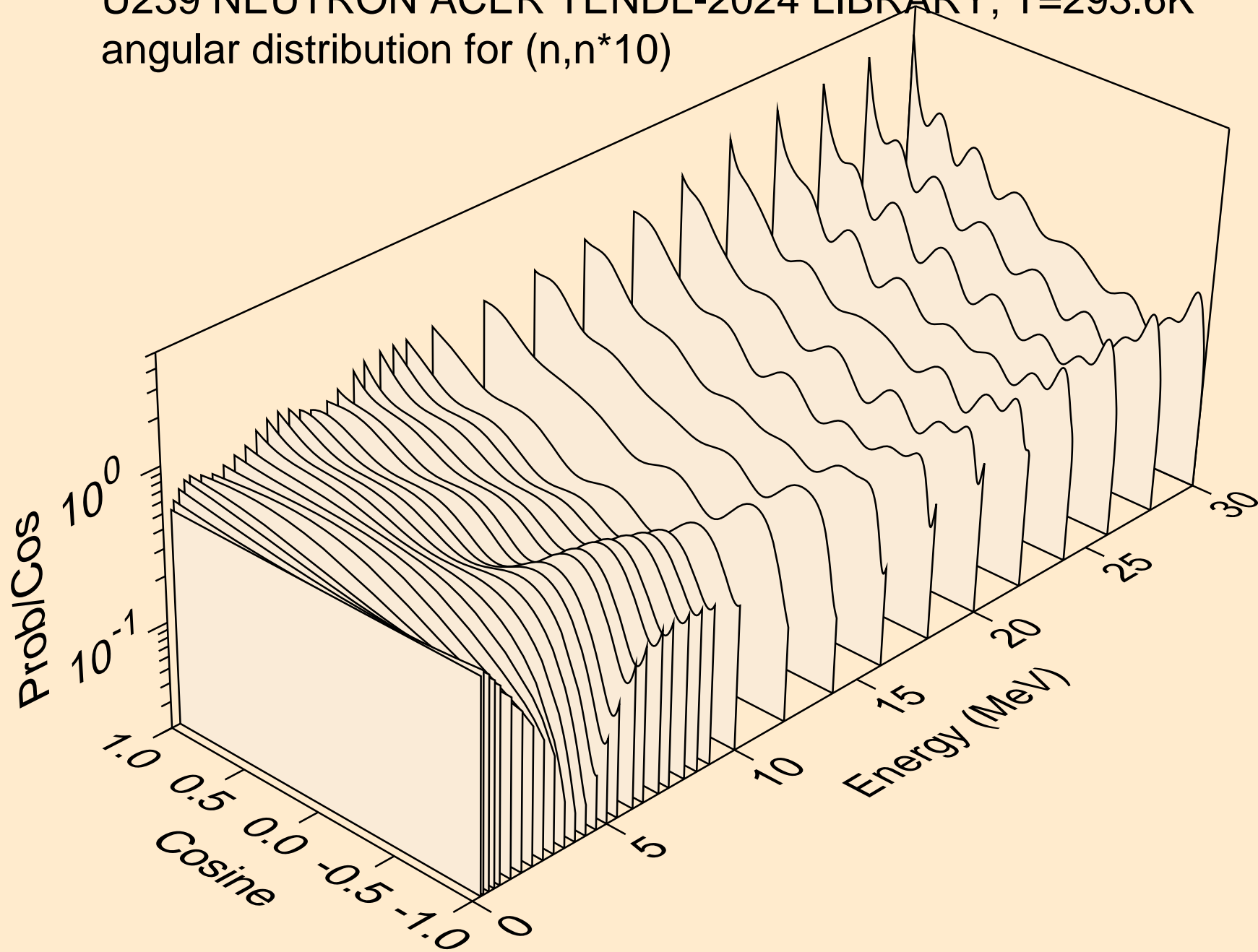
U239 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
angular distribution for (n,n\*8)



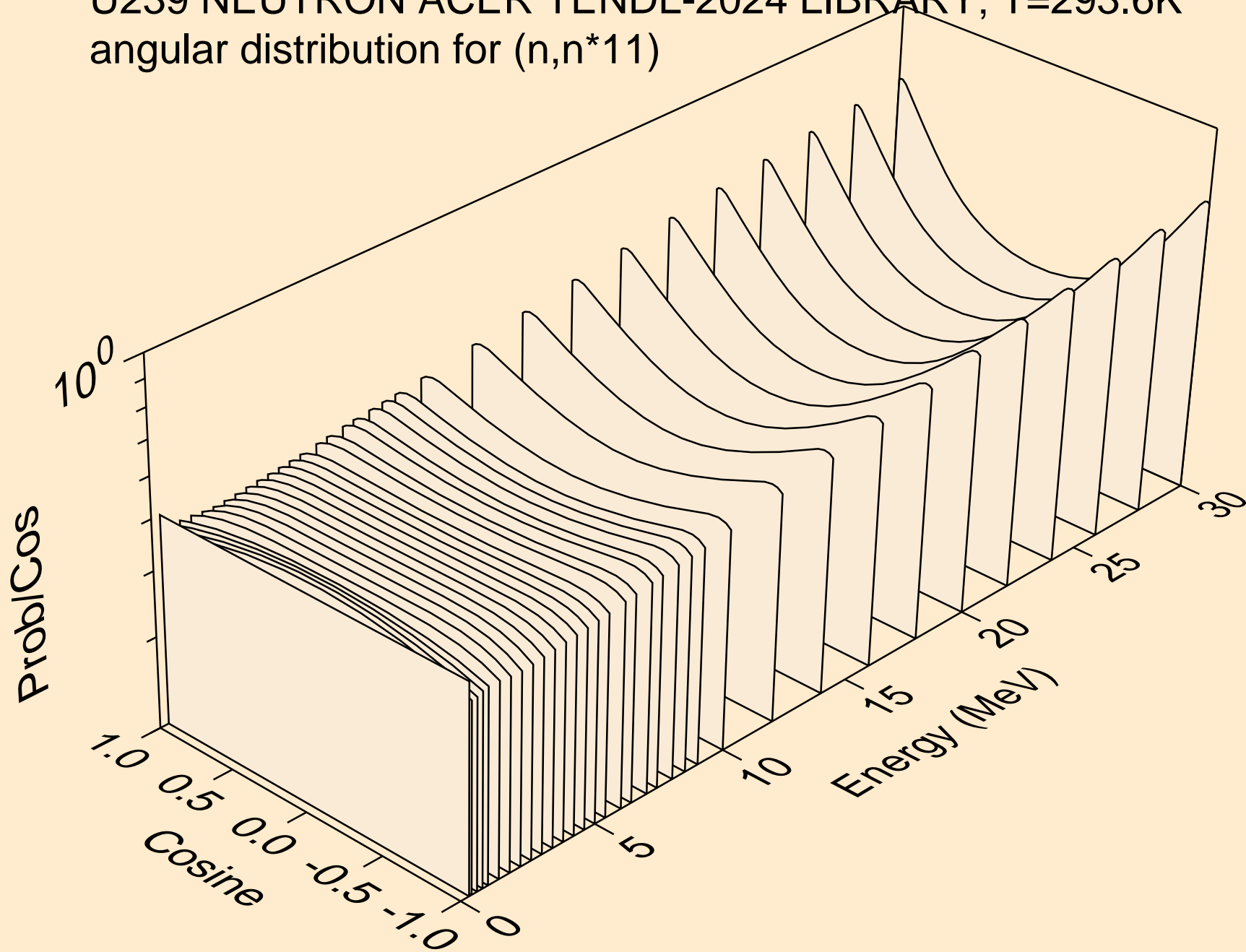
U239 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
angular distribution for (n,n\*9)



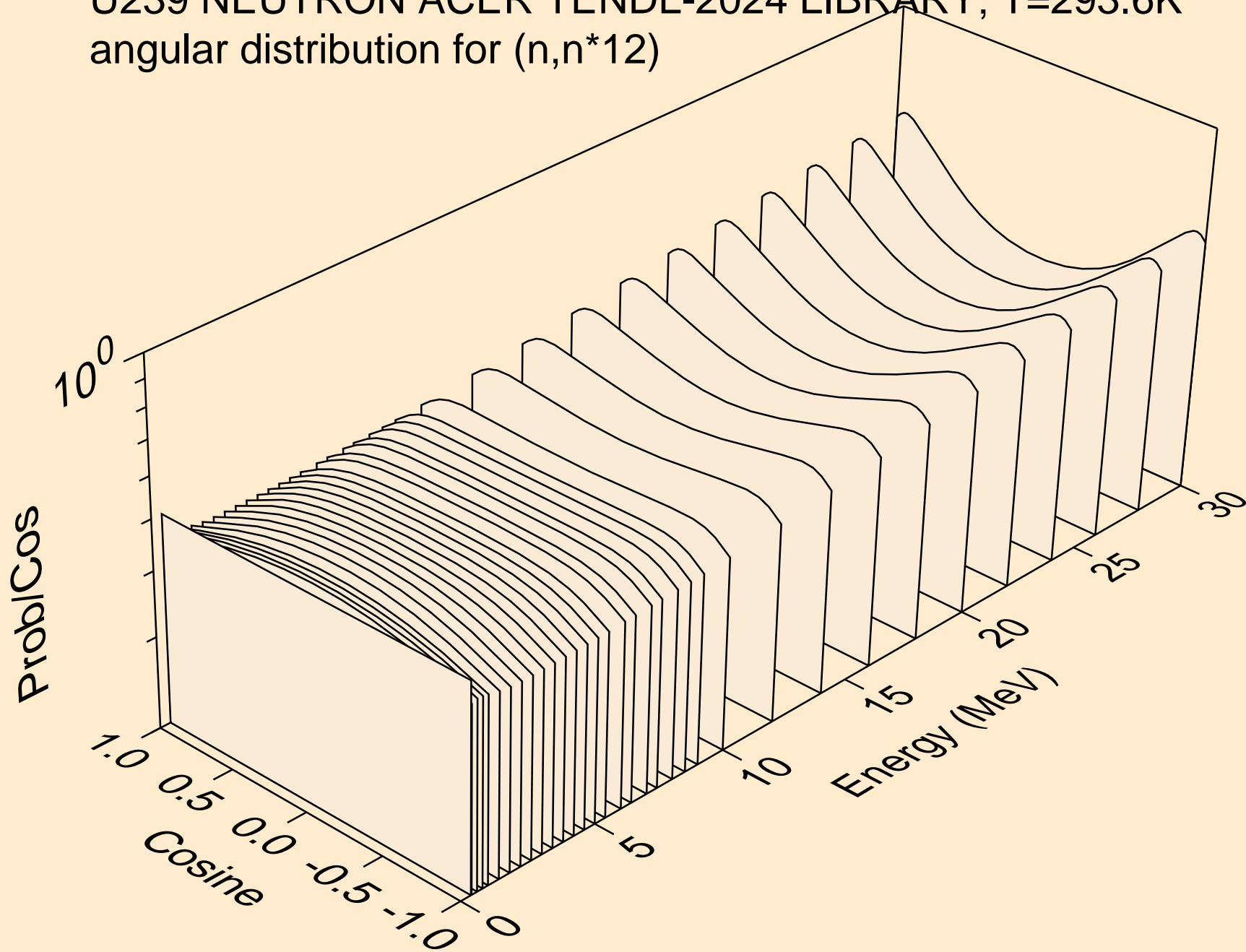
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angular distribution for (n,n\*10)



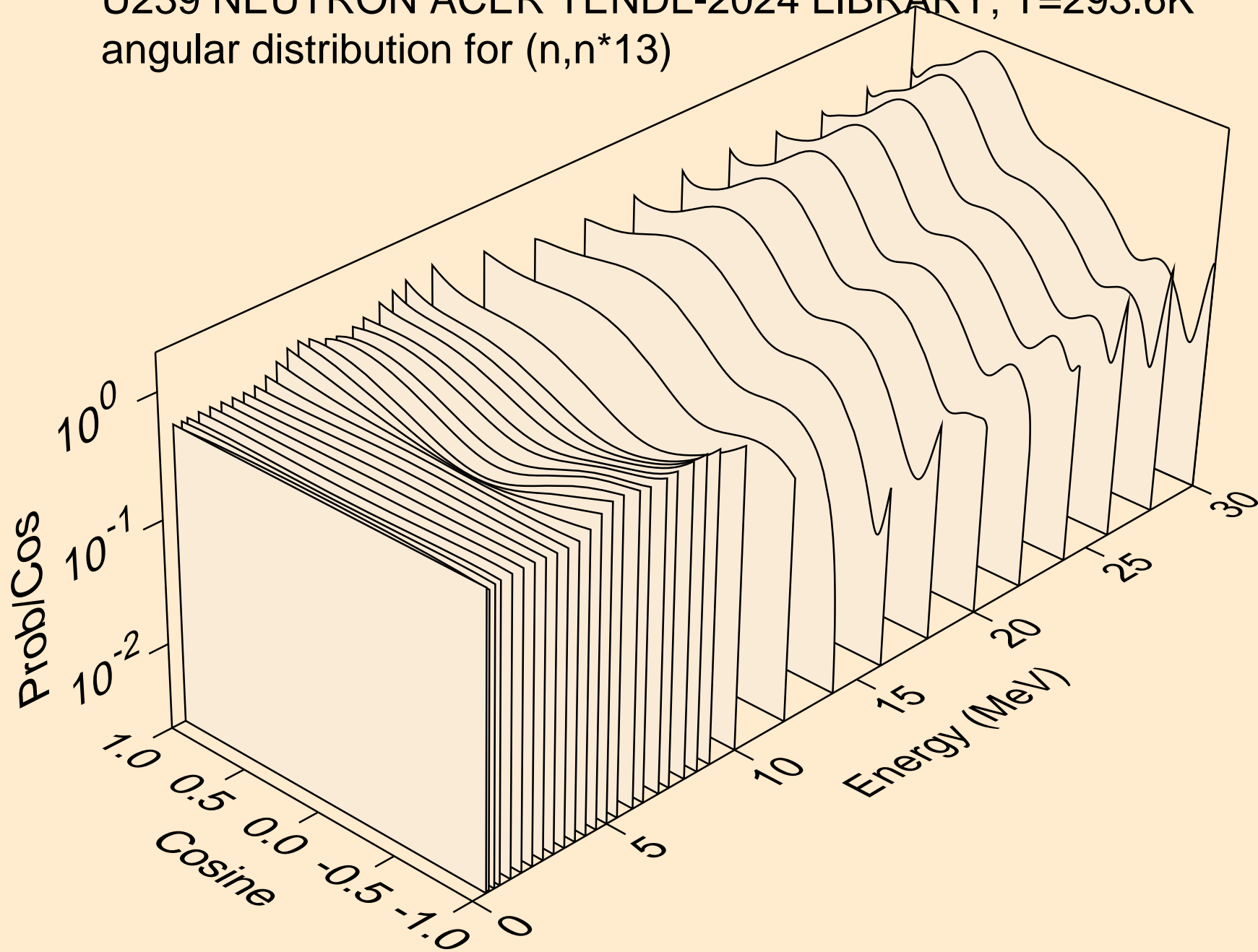
U239 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
angular distribution for (n,n\*11)



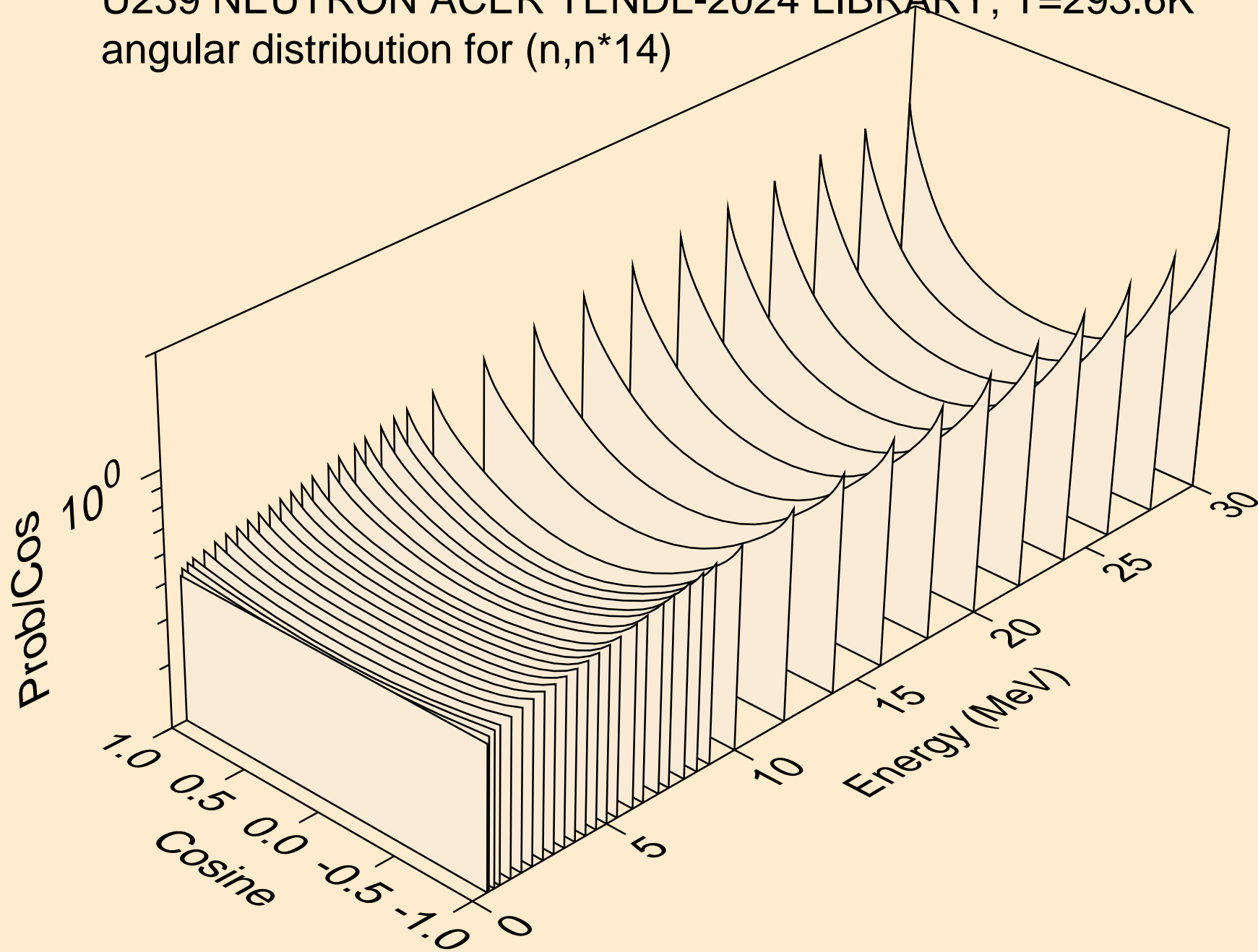
U239 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
angular distribution for (n,n\*12)



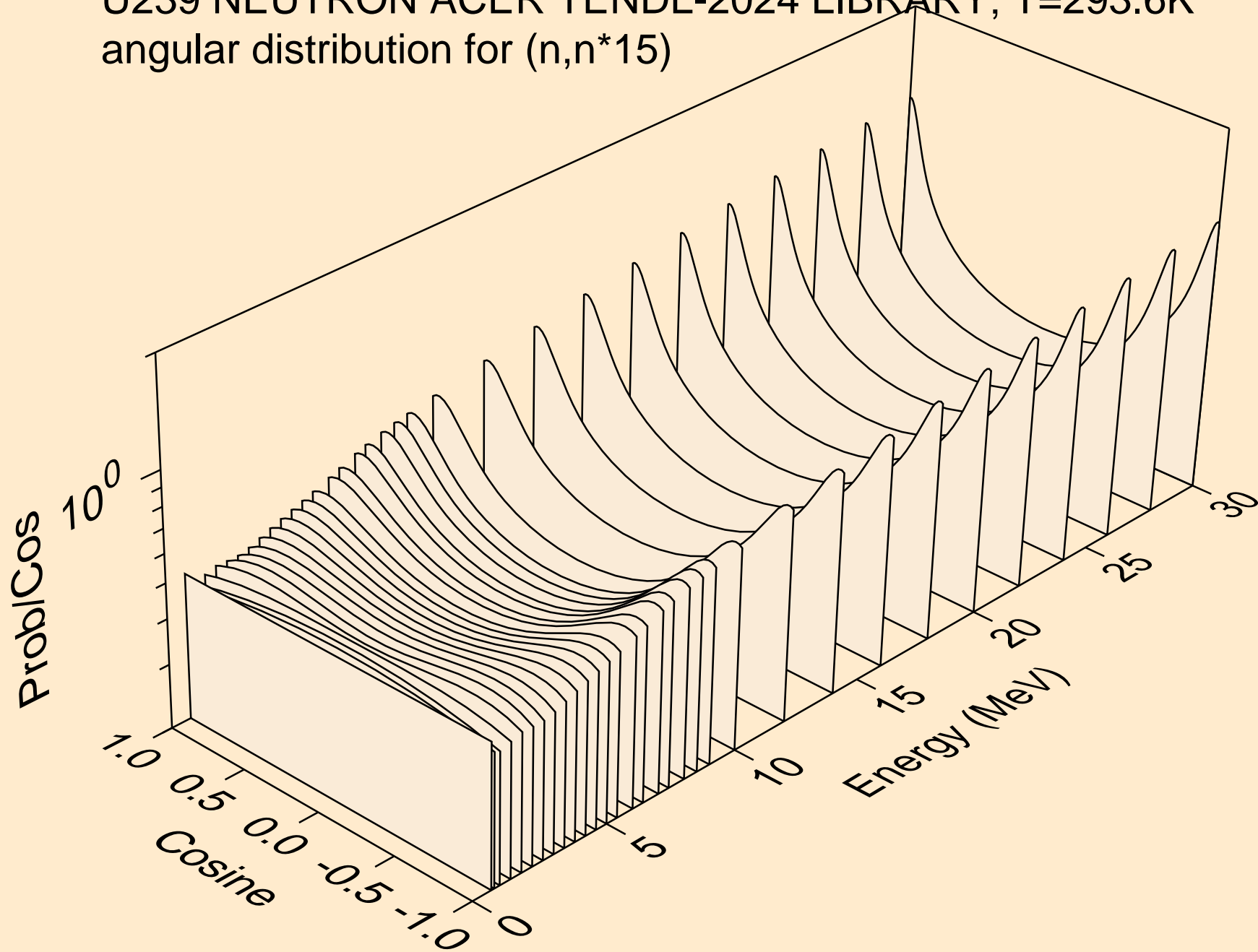
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angular distribution for (n,n\*13)



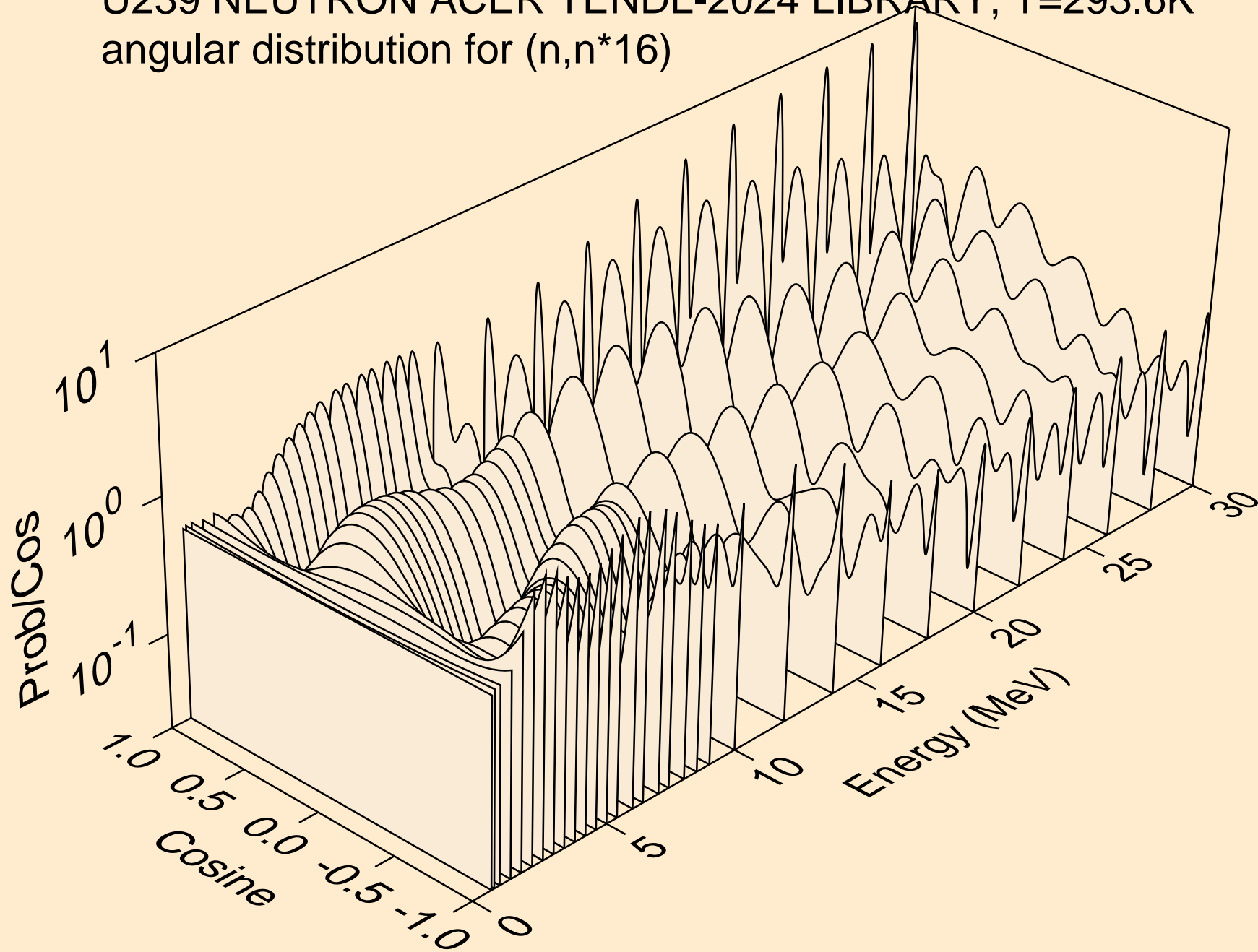
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angular distribution for (n,n\*14)



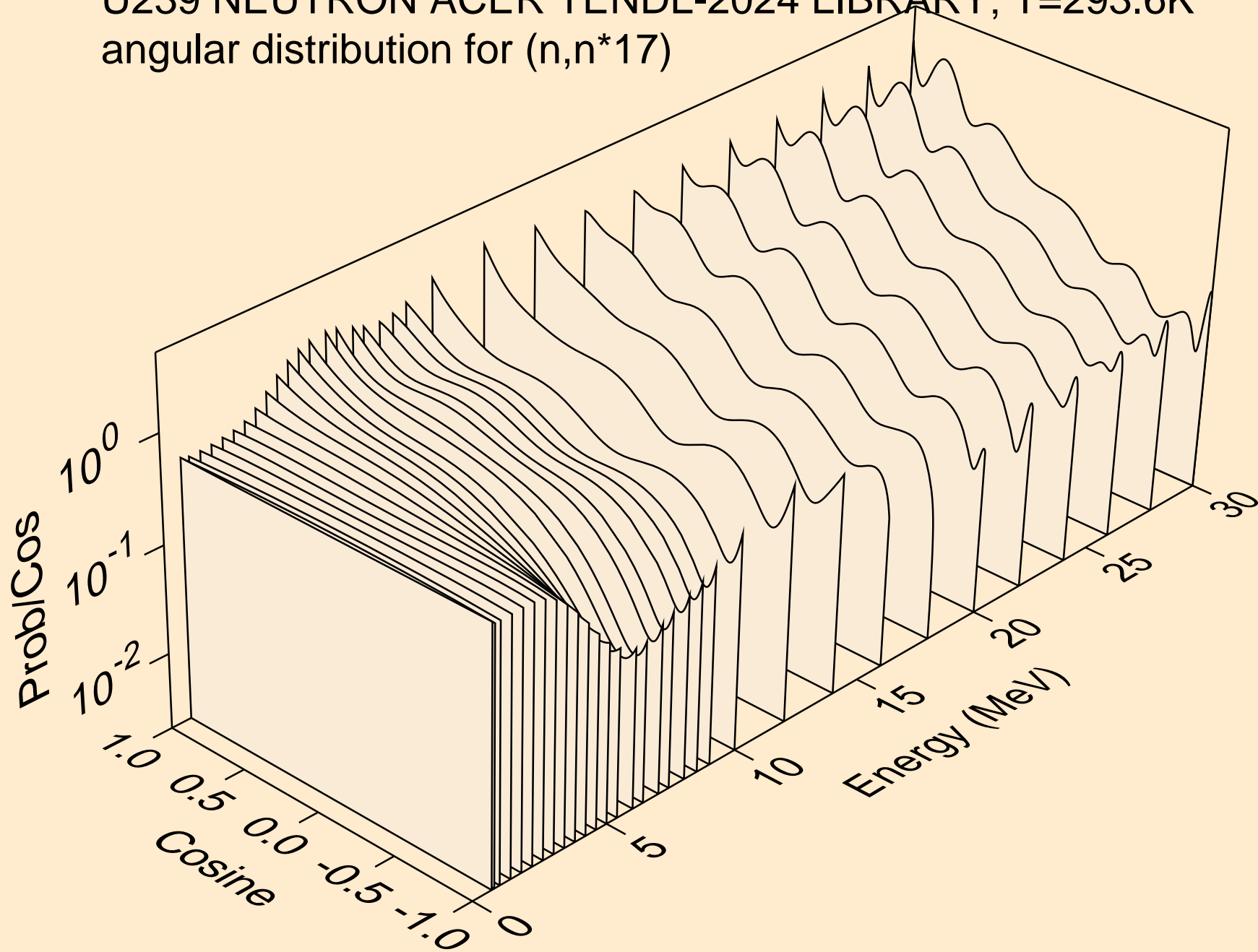
U239 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
angular distribution for (n,n\*15)



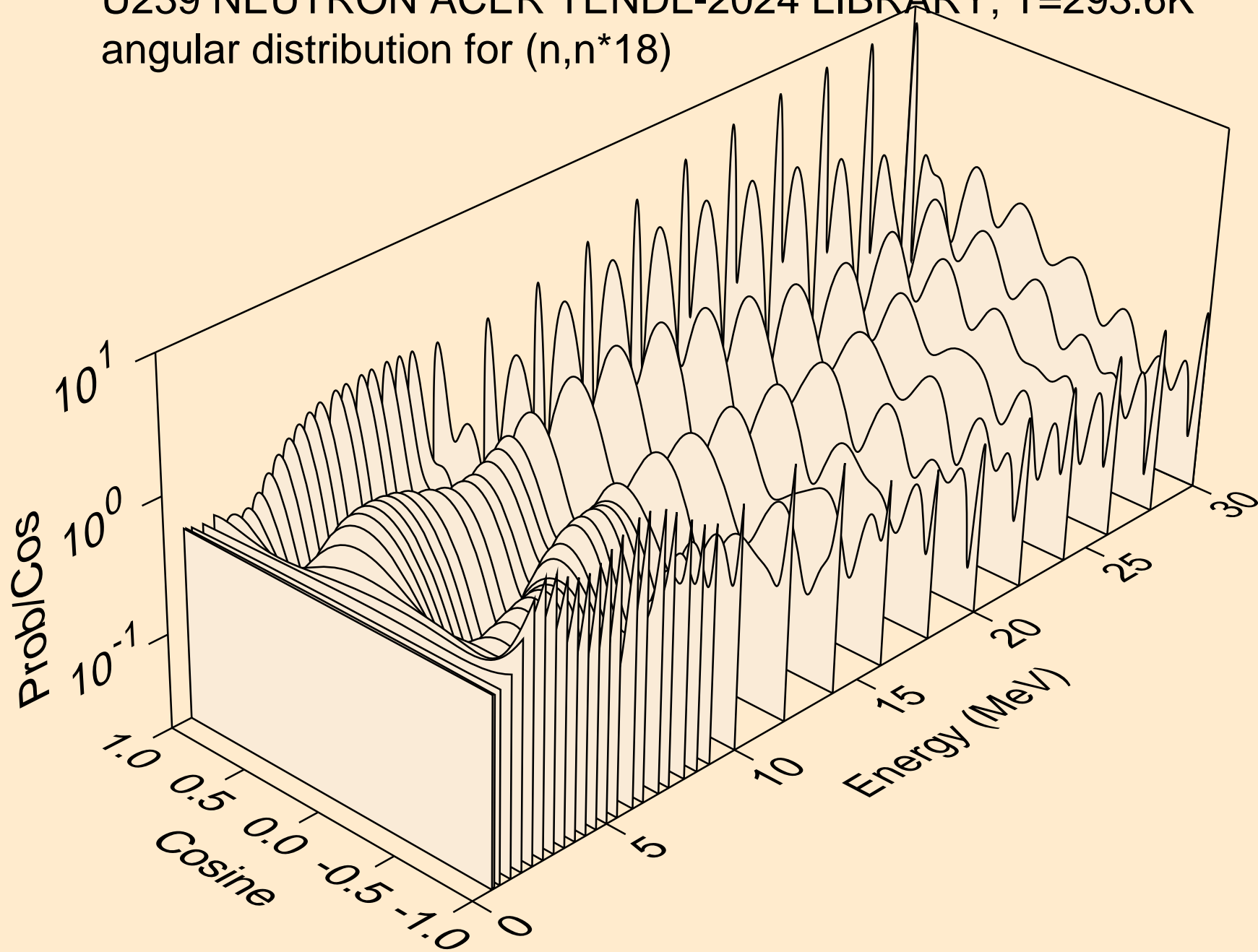
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angular distribution for (n,n\*16)



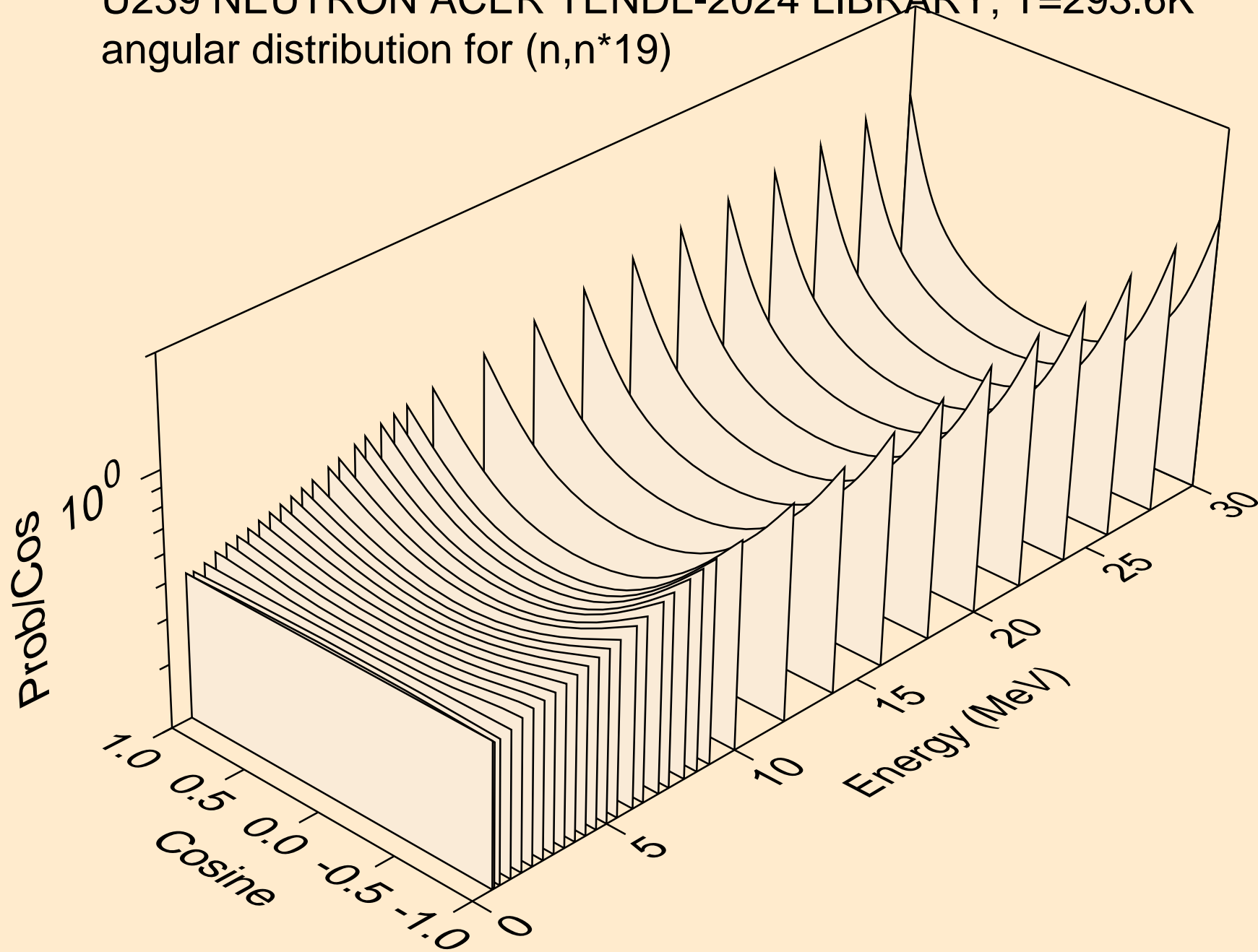
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angular distribution for (n,n\*17)



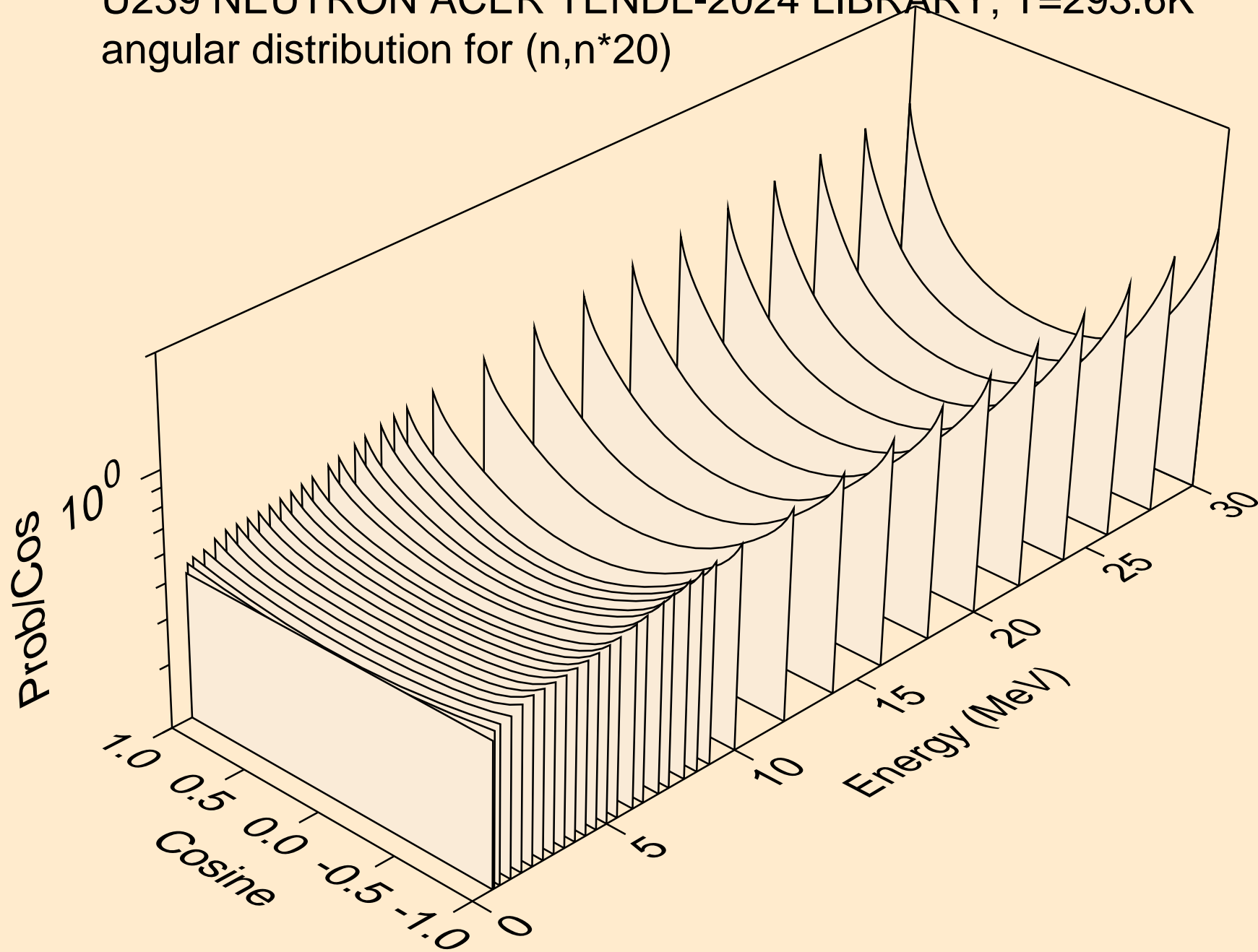
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angular distribution for (n,n\*18)



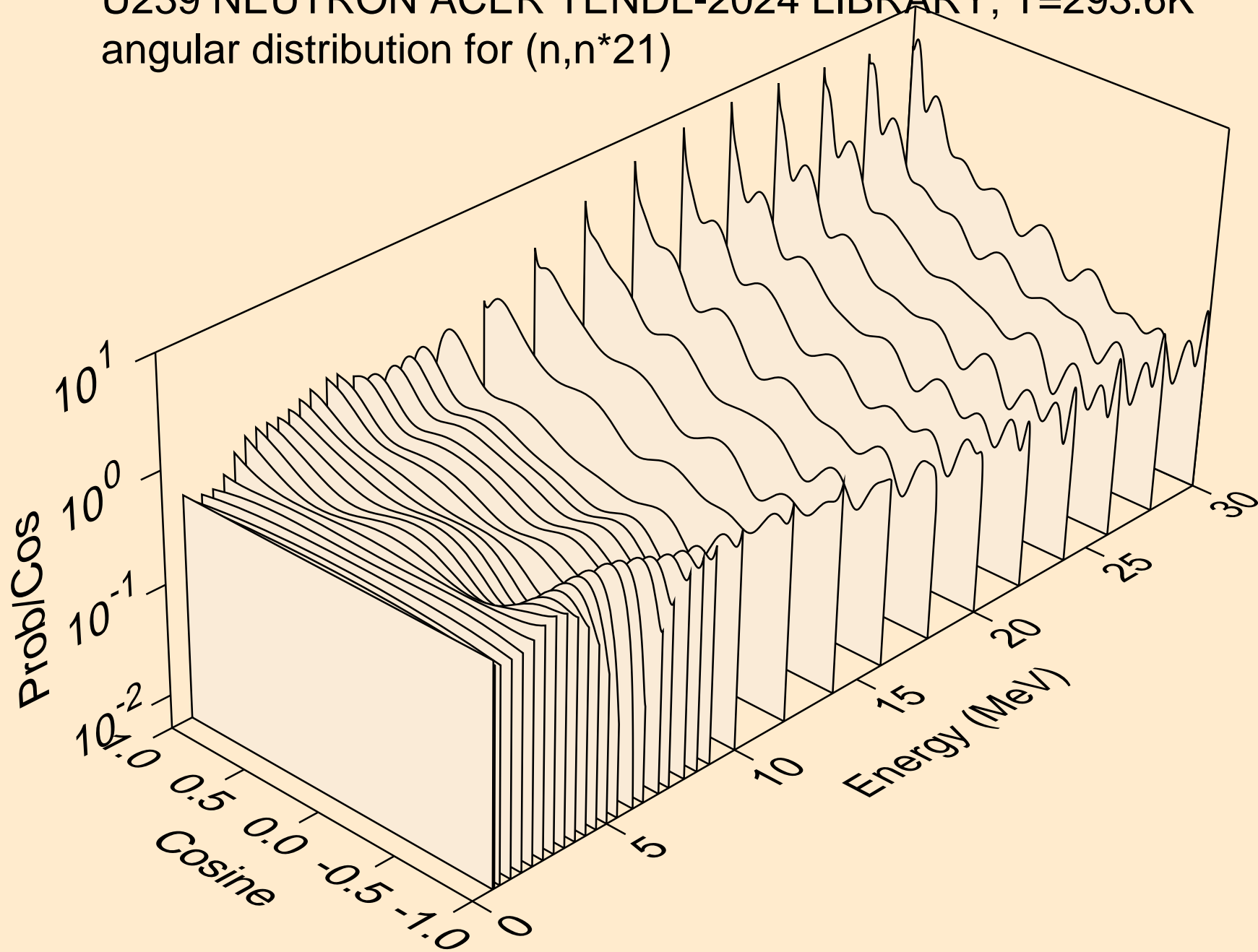
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angular distribution for (n,n\*19)



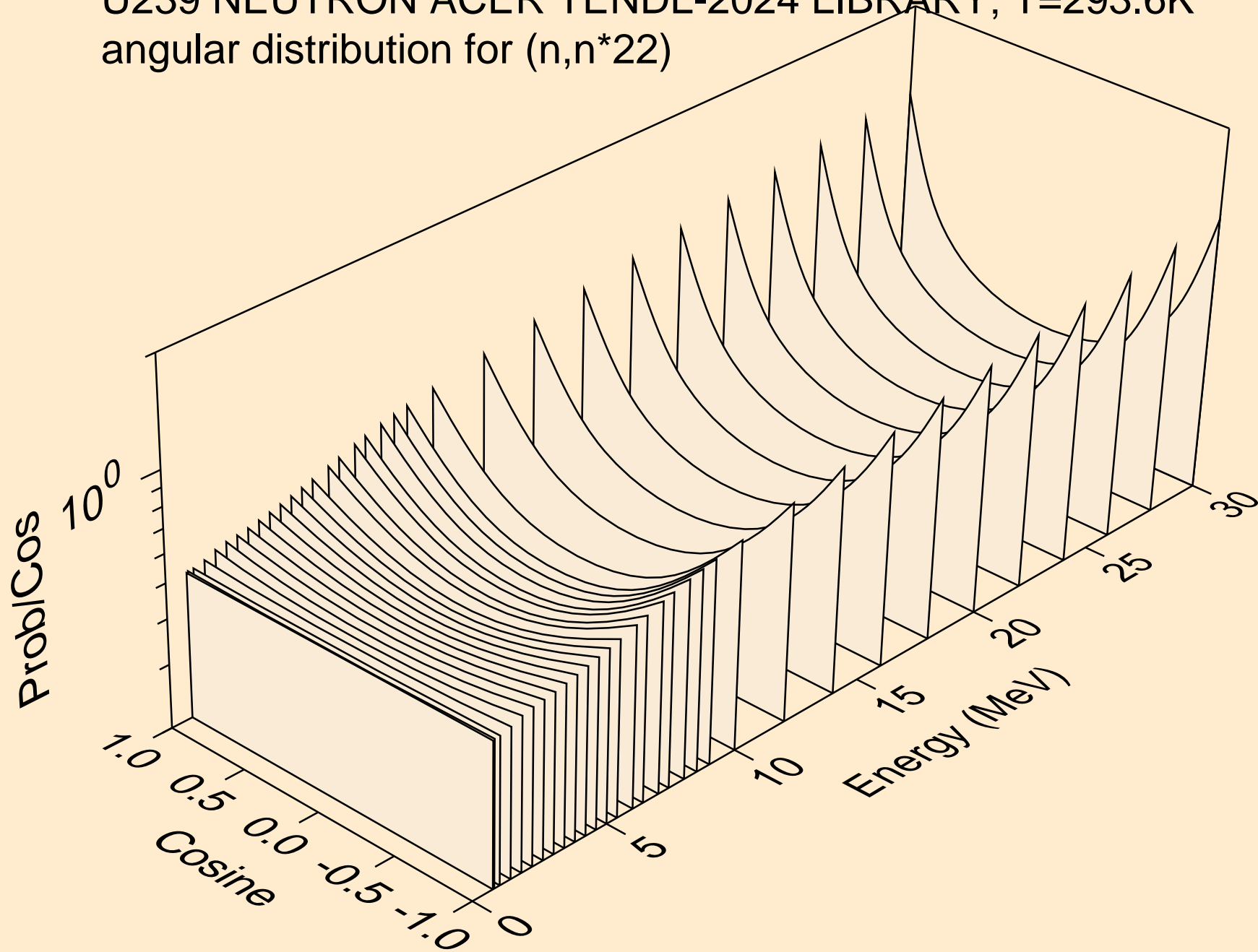
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angular distribution for (n,n\*20)



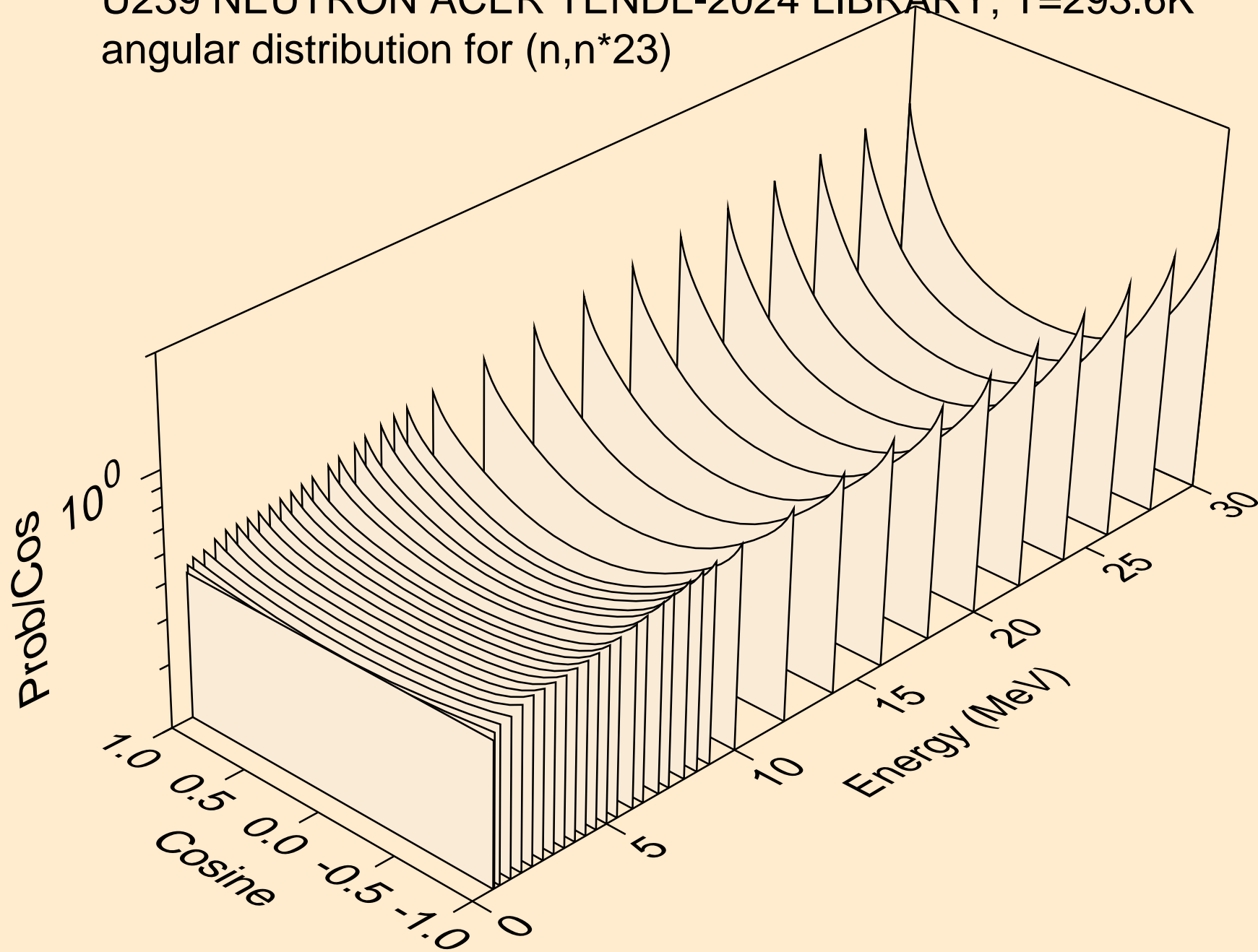
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angular distribution for (n,n\*21)



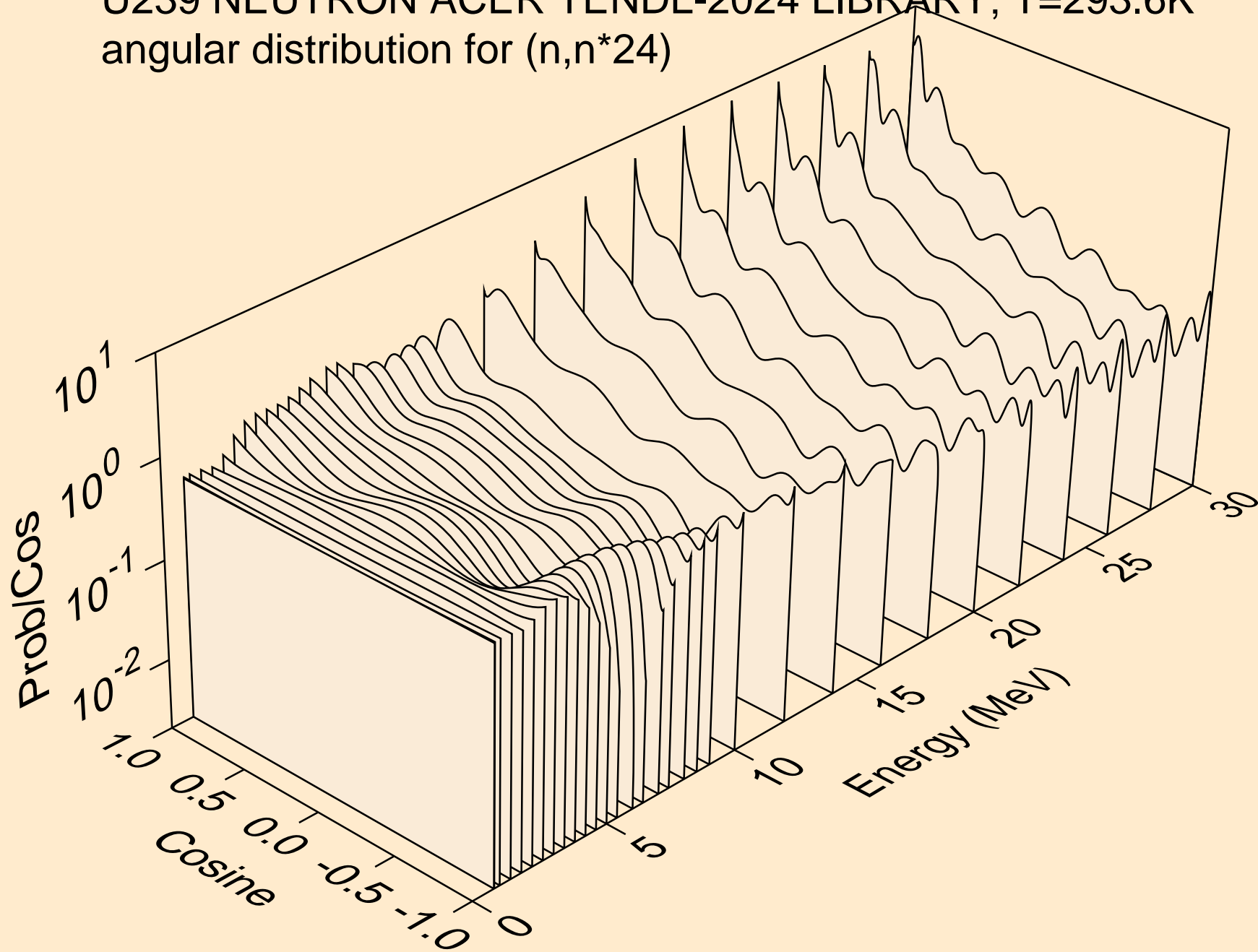
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angular distribution for (n,n\*22)



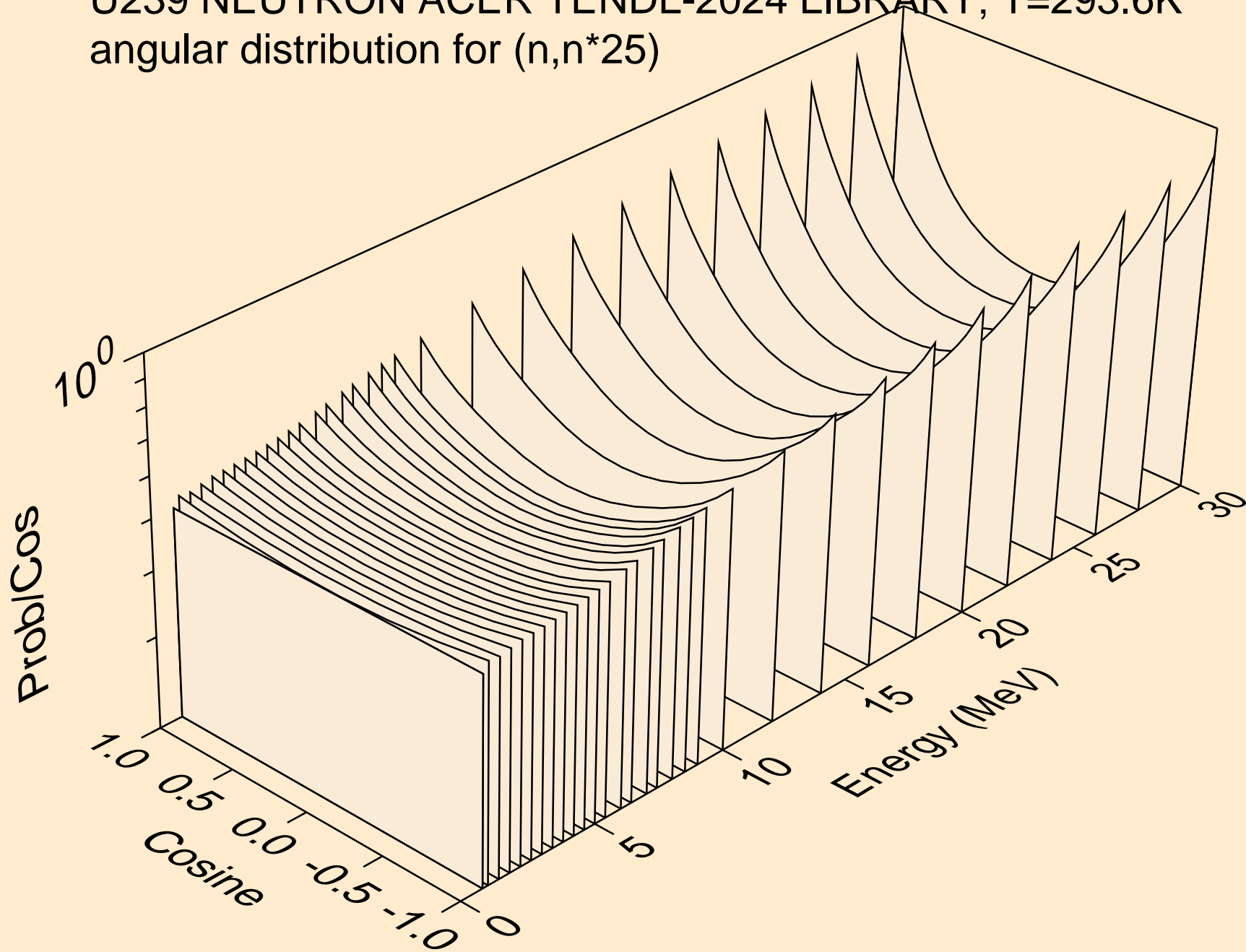
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angular distribution for (n,n\*23)



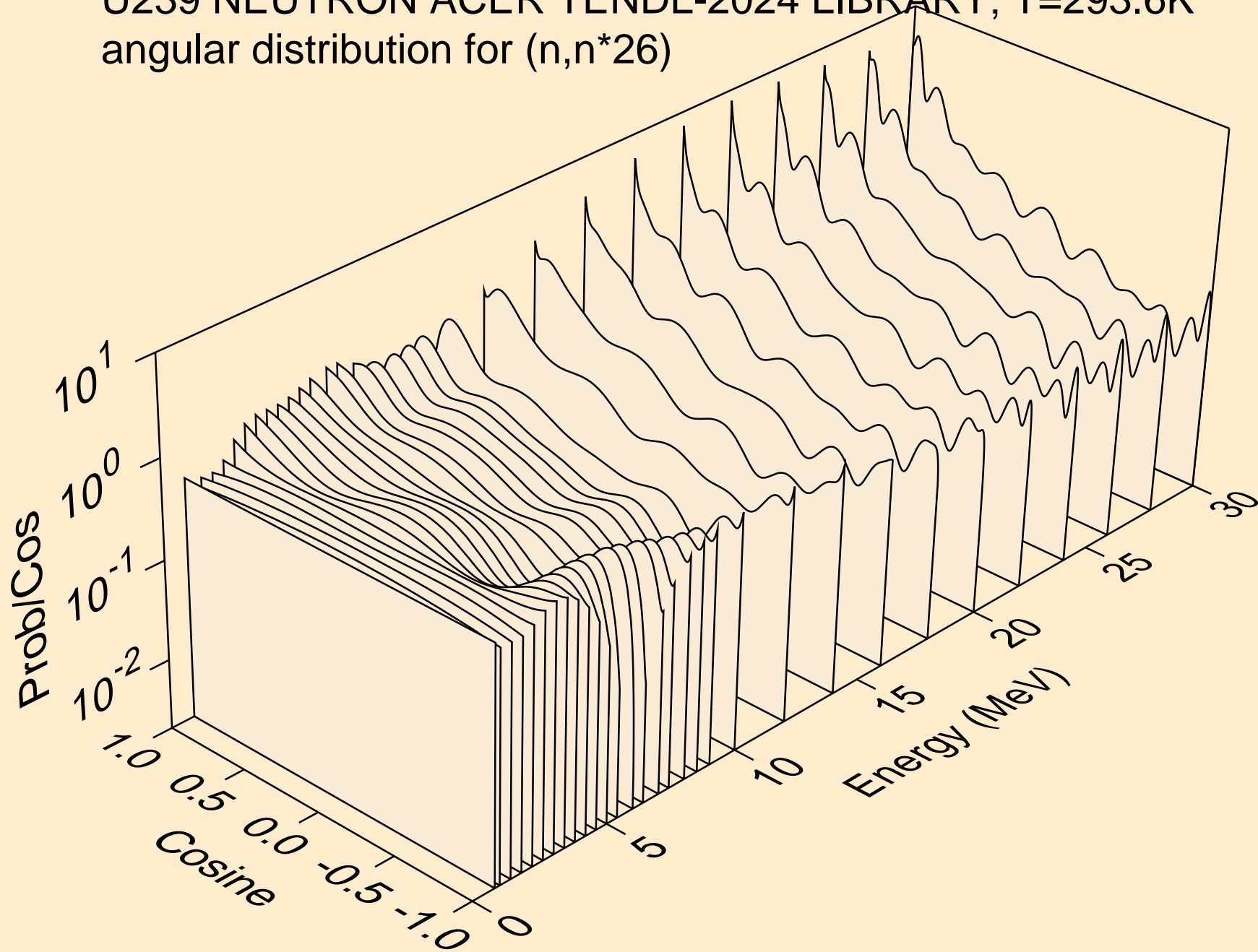
U239 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
angular distribution for (n,n\*24)



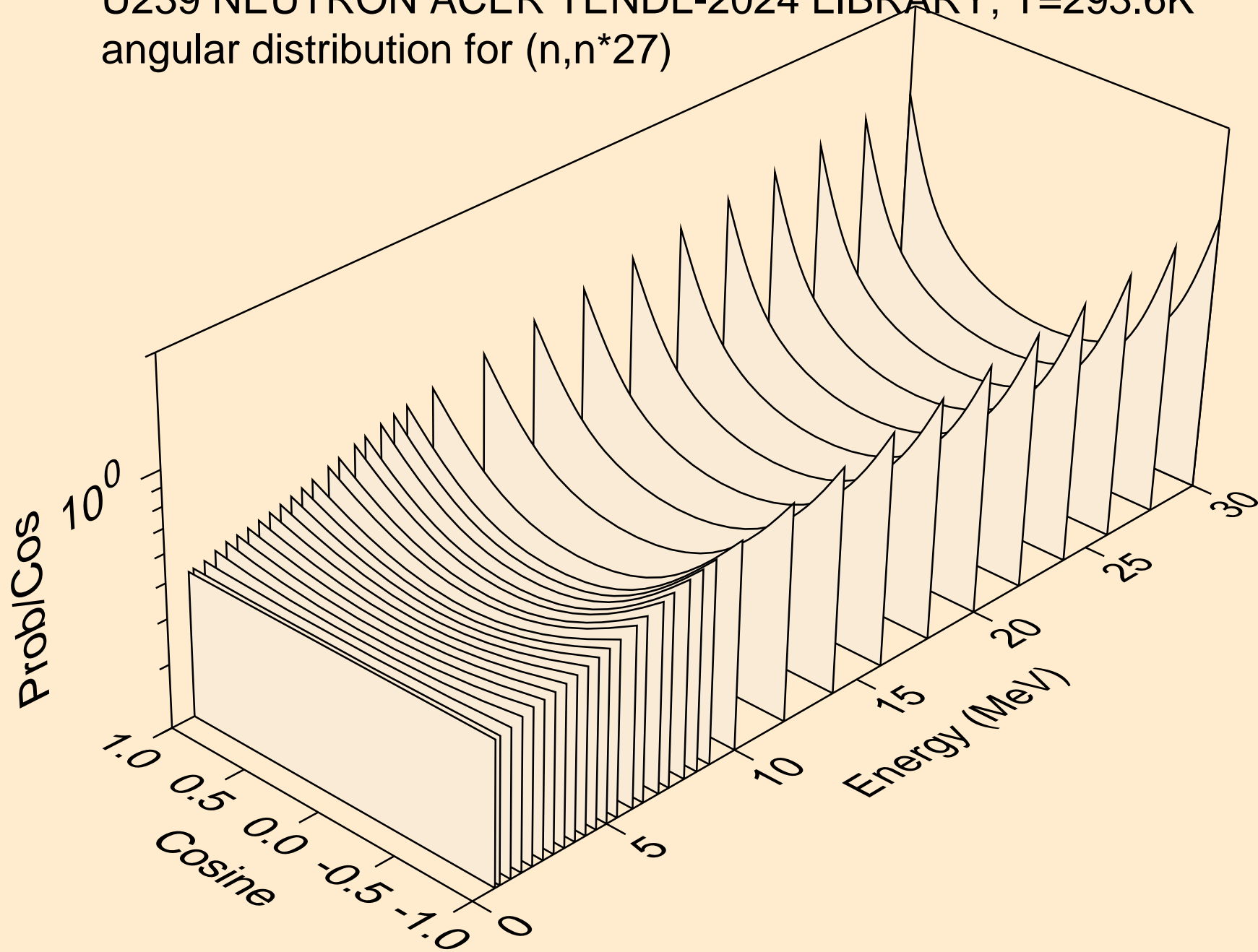
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angular distribution for (n,n\*25)



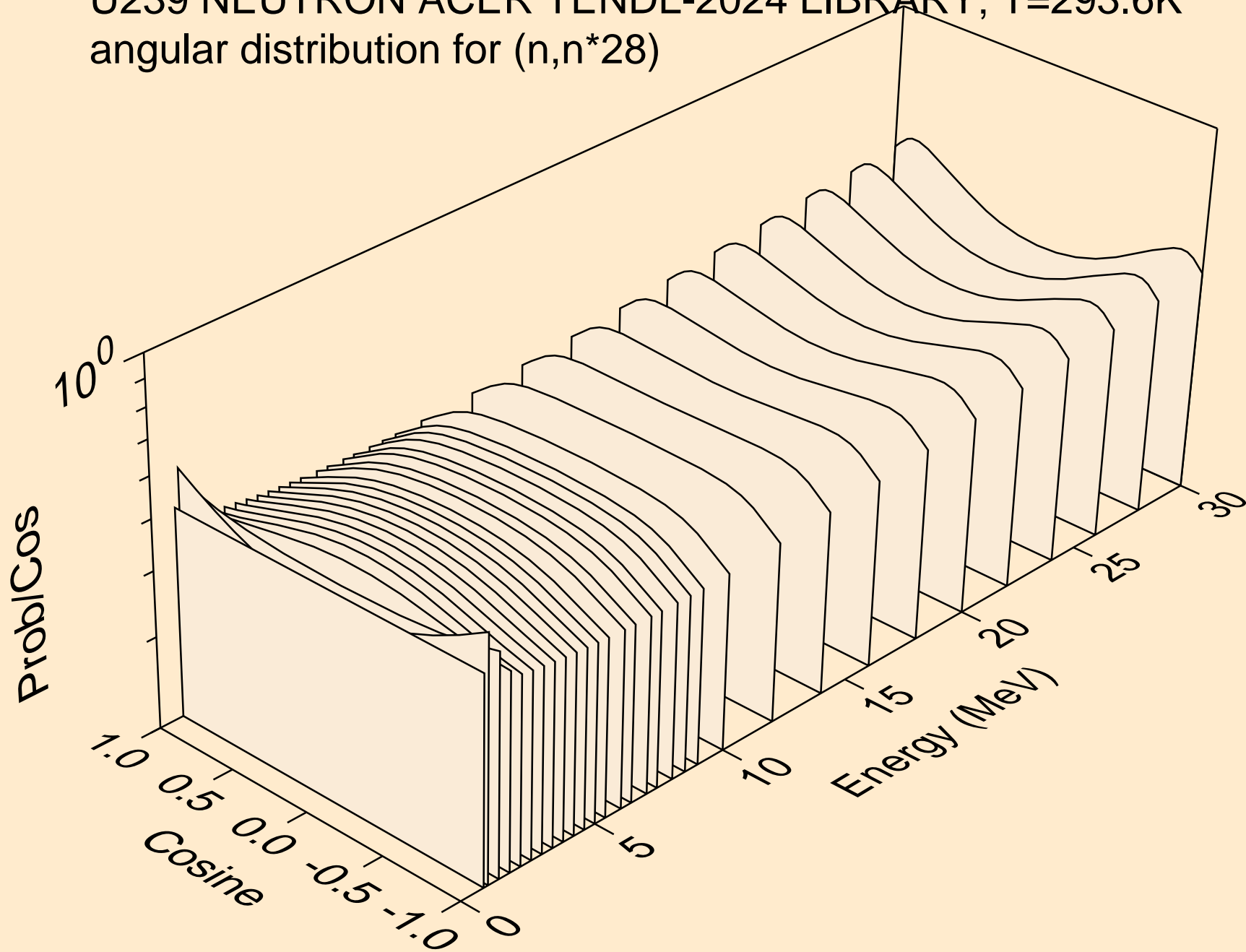
U239 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
angular distribution for (n,n\*26)



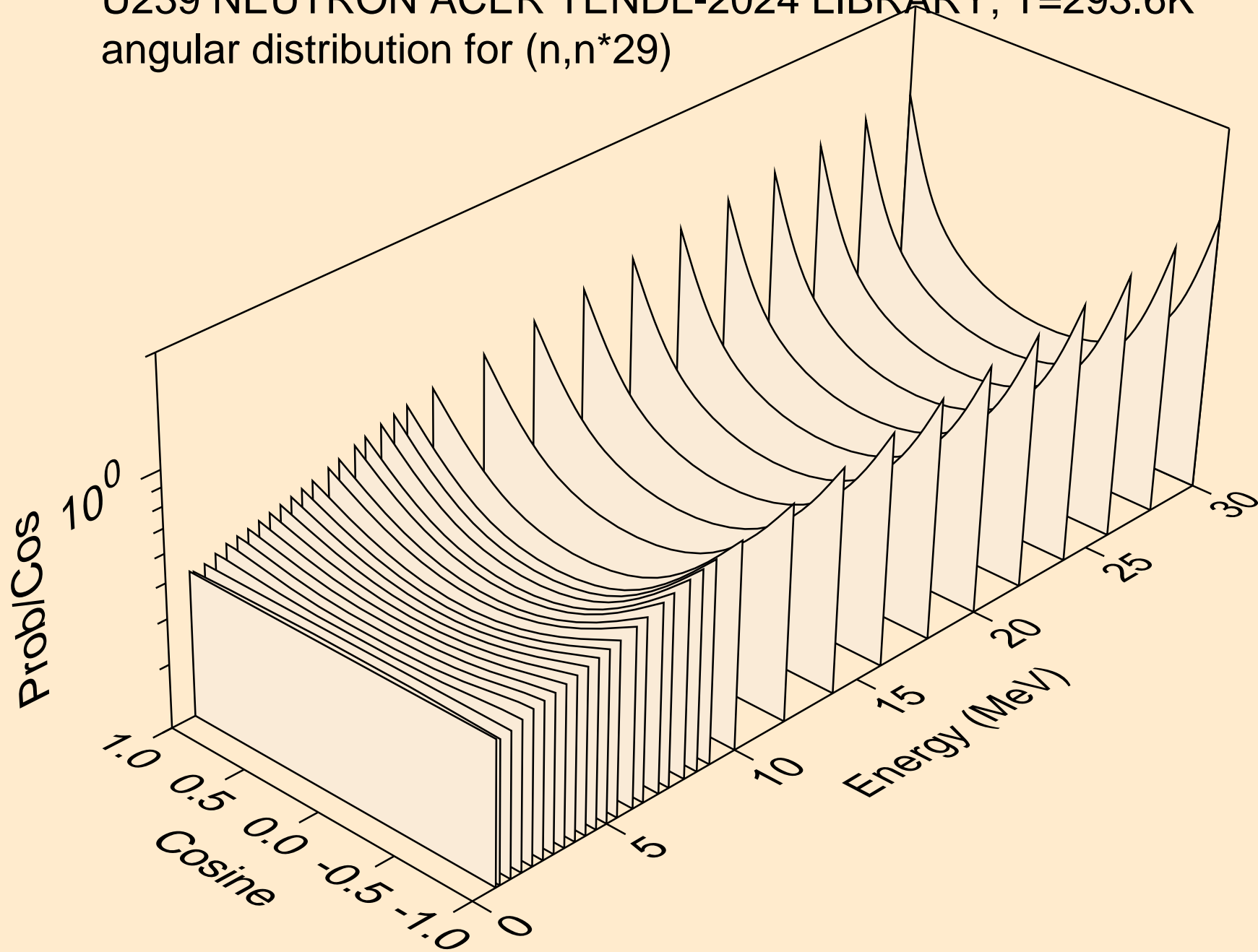
U239 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
angular distribution for (n,n\*27)



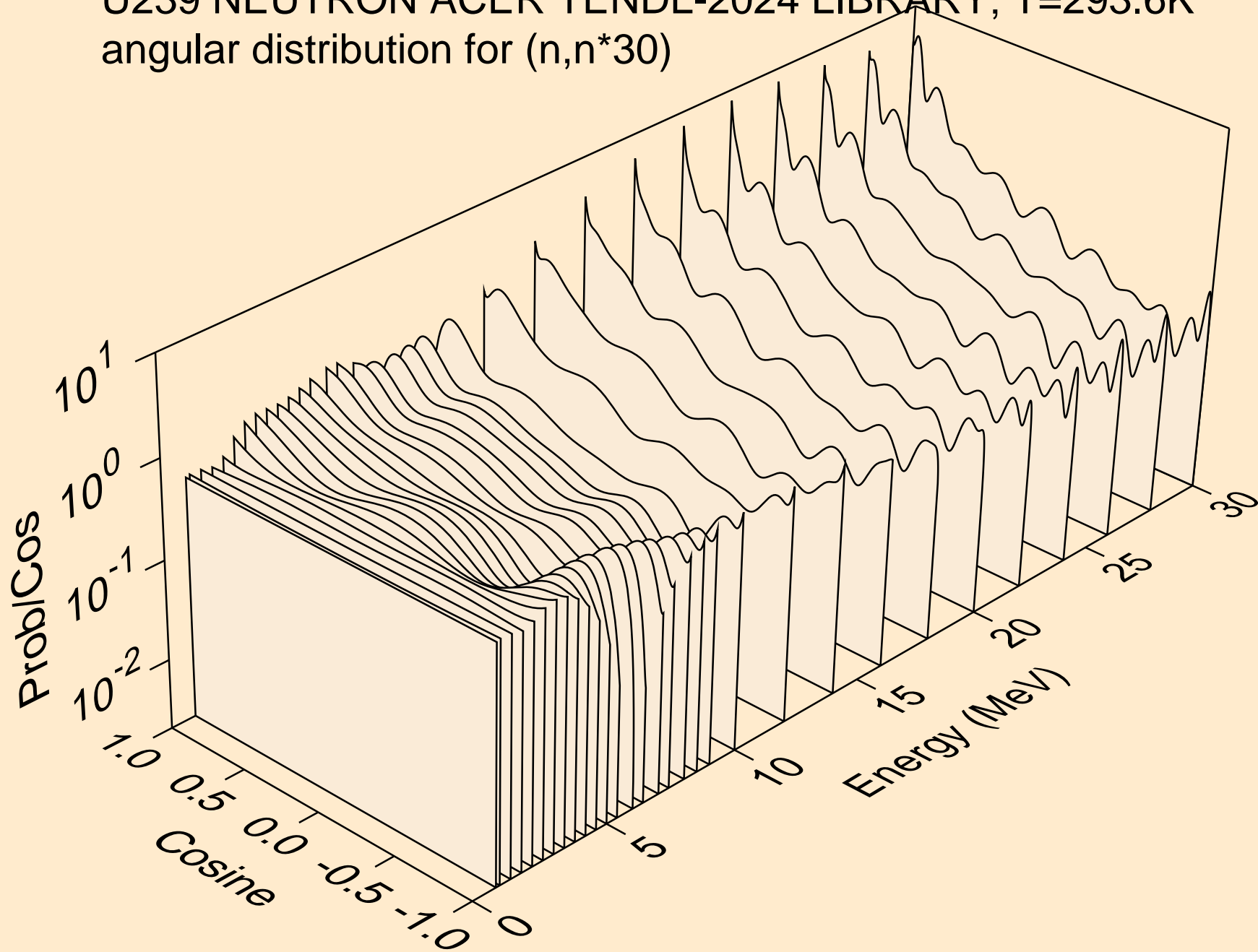
U239 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
angular distribution for (n,n\*28)



U239 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
angular distribution for (n,n\*29)

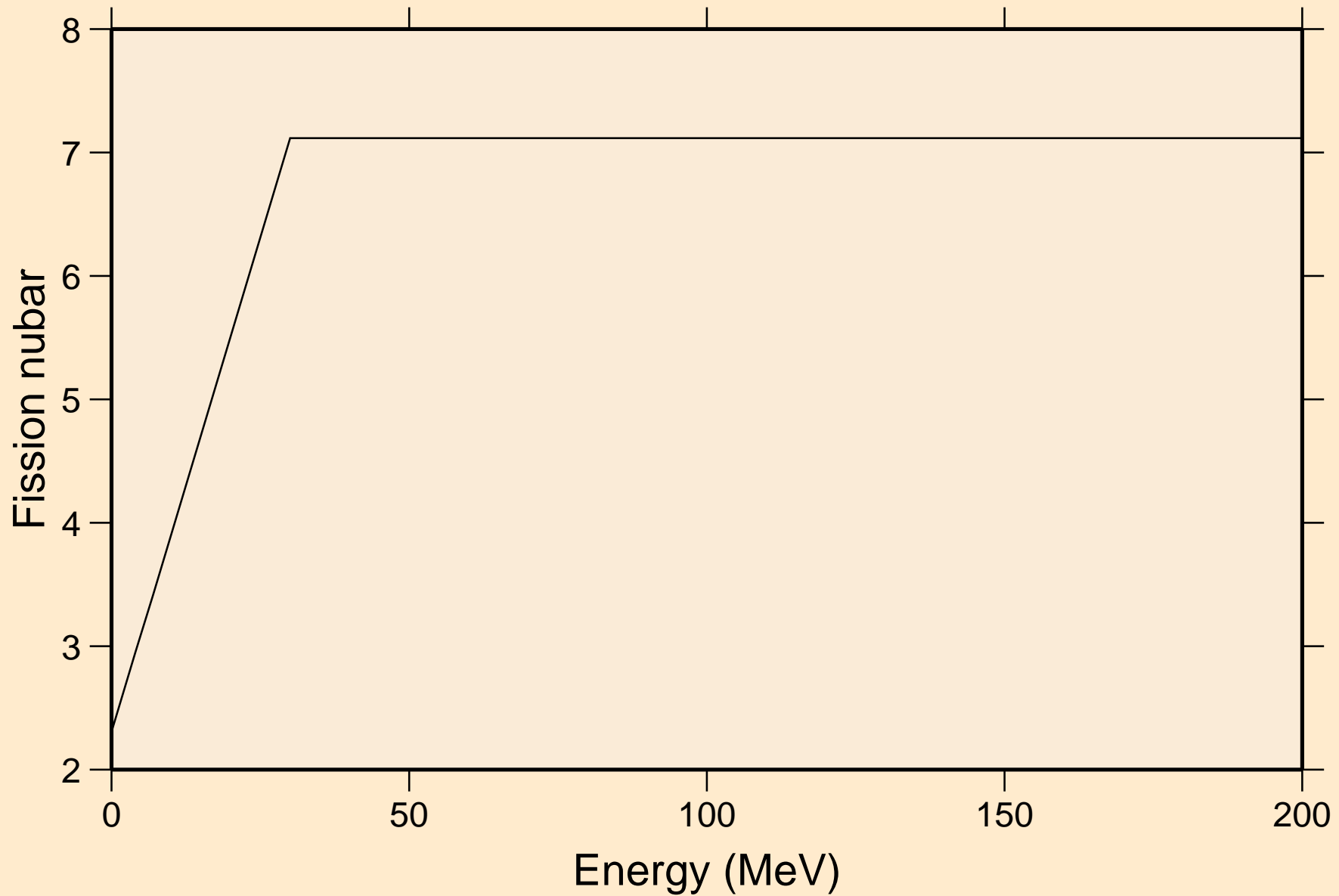


U239 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
angular distribution for (n,n\*30)

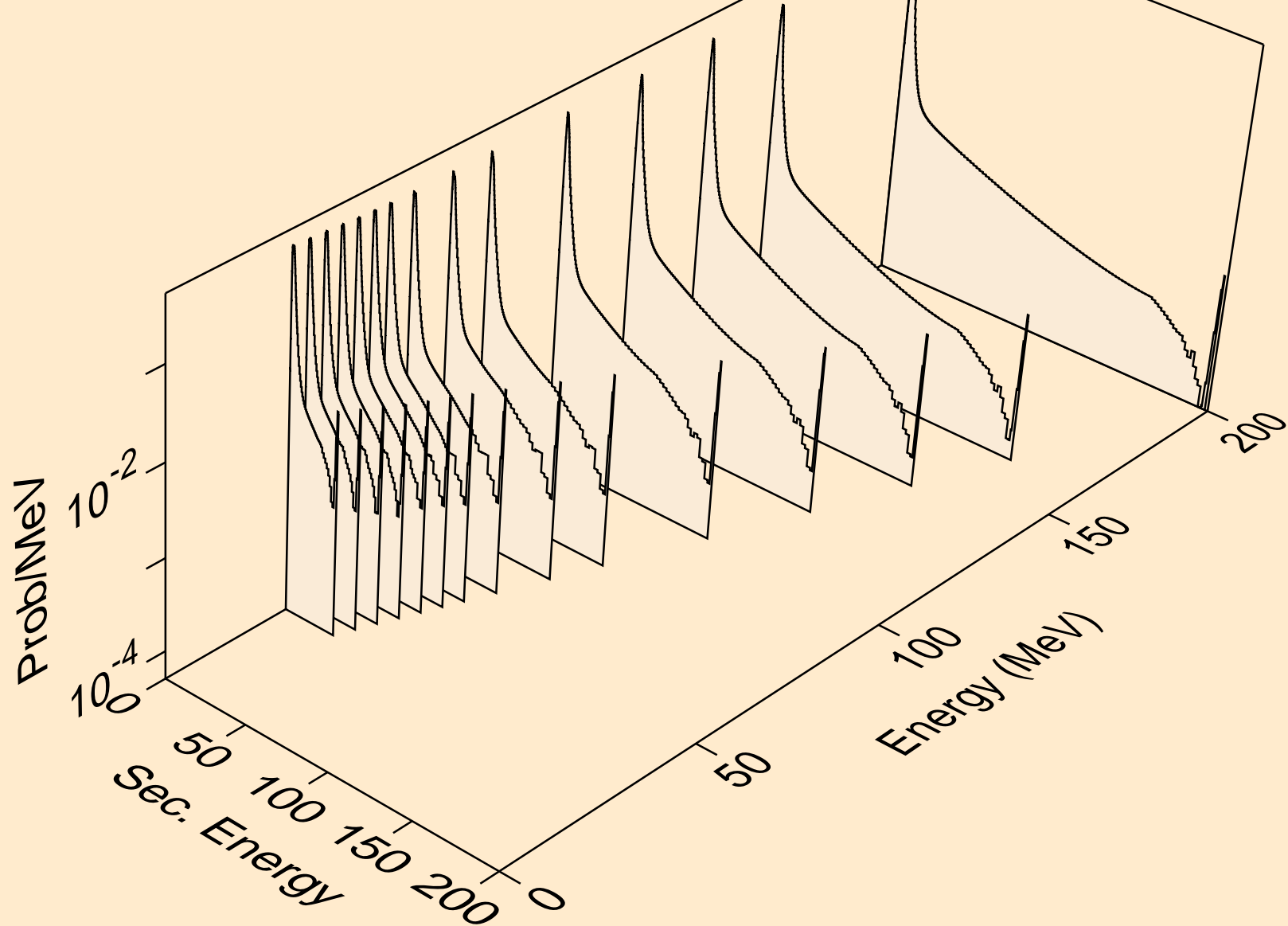


U239 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K

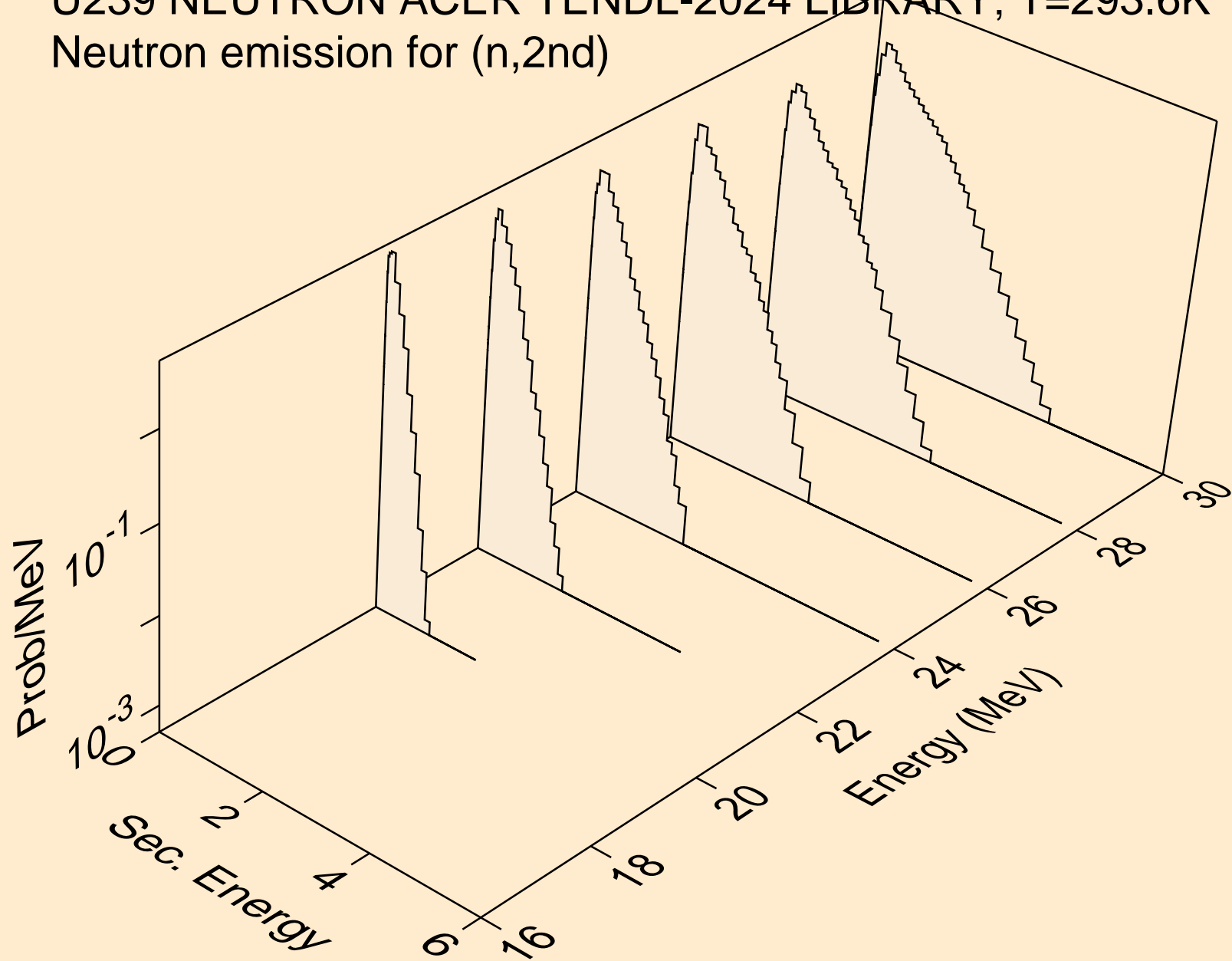
Total fission nubar



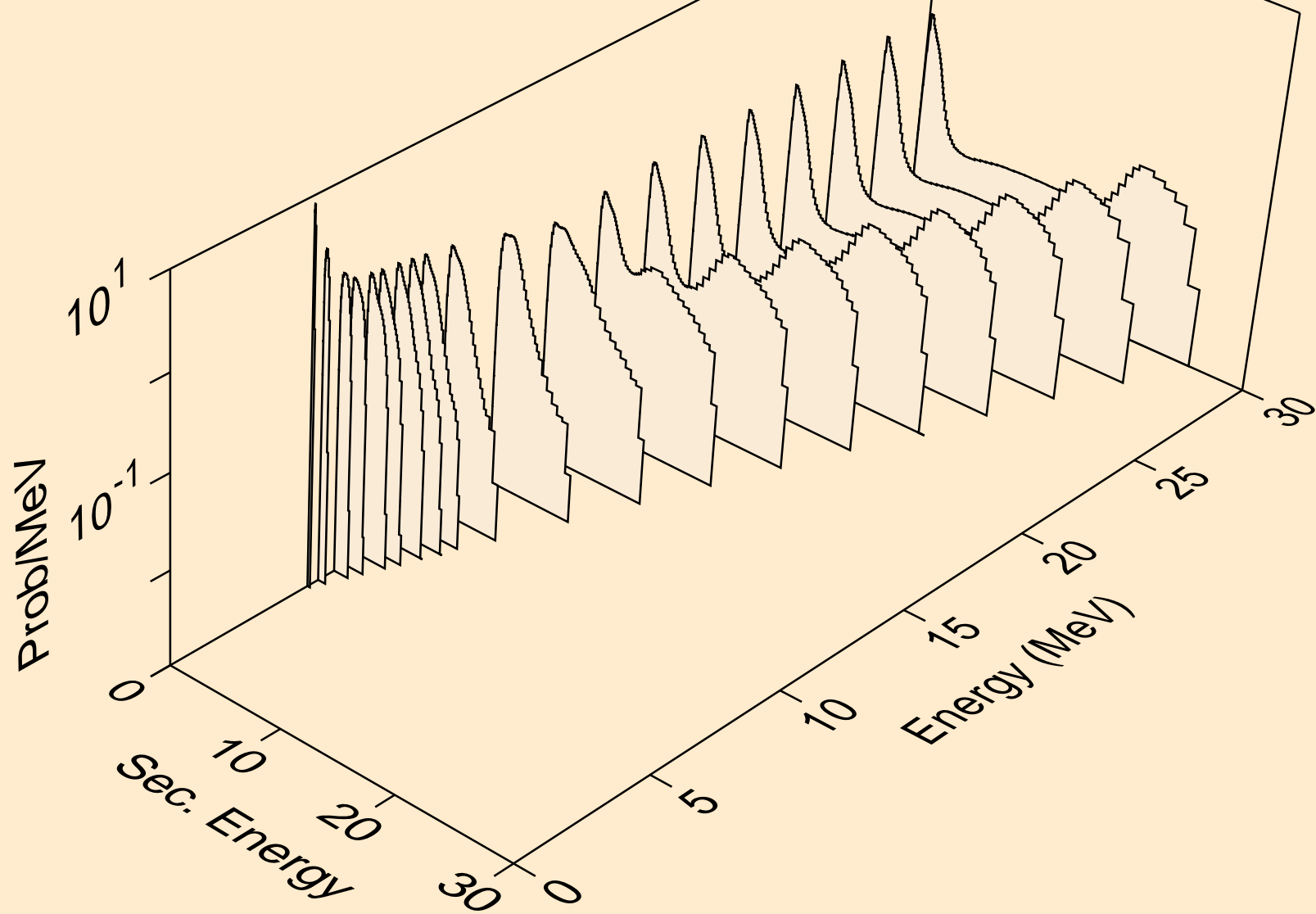
U239 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Neutron emission for (n,x)



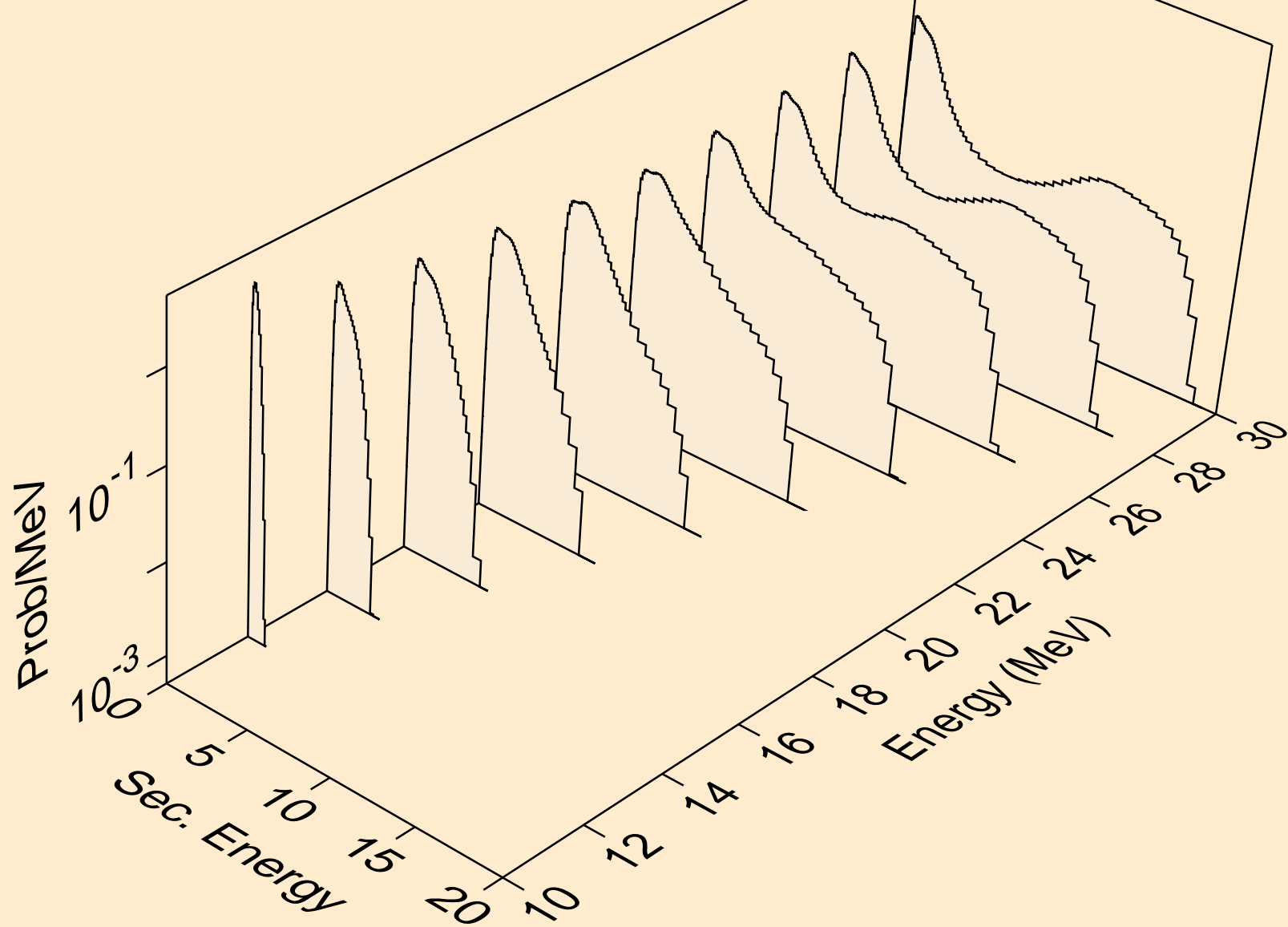
U239 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Neutron emission for (n,2nd)



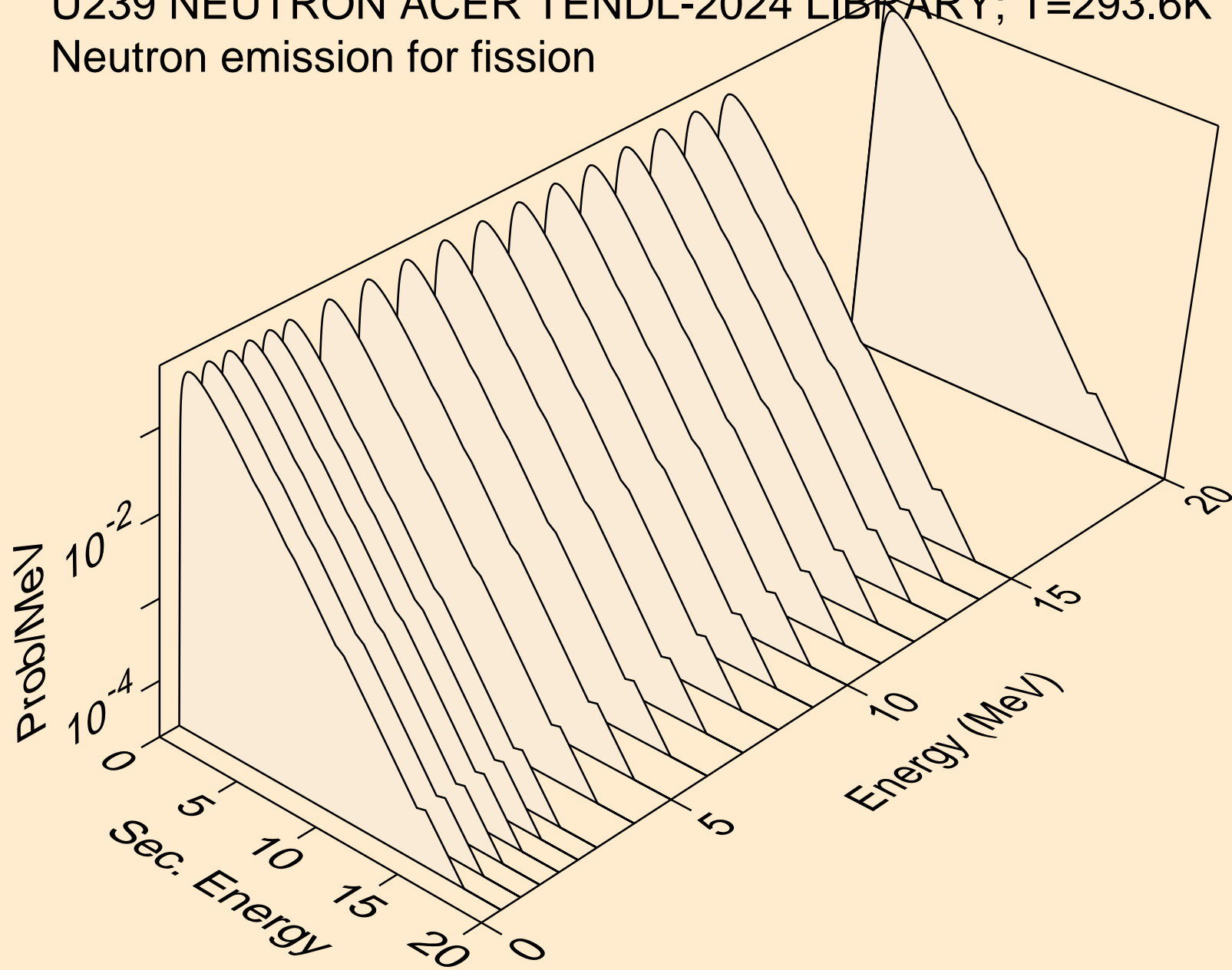
U239 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Neutron emission for (n,2n)



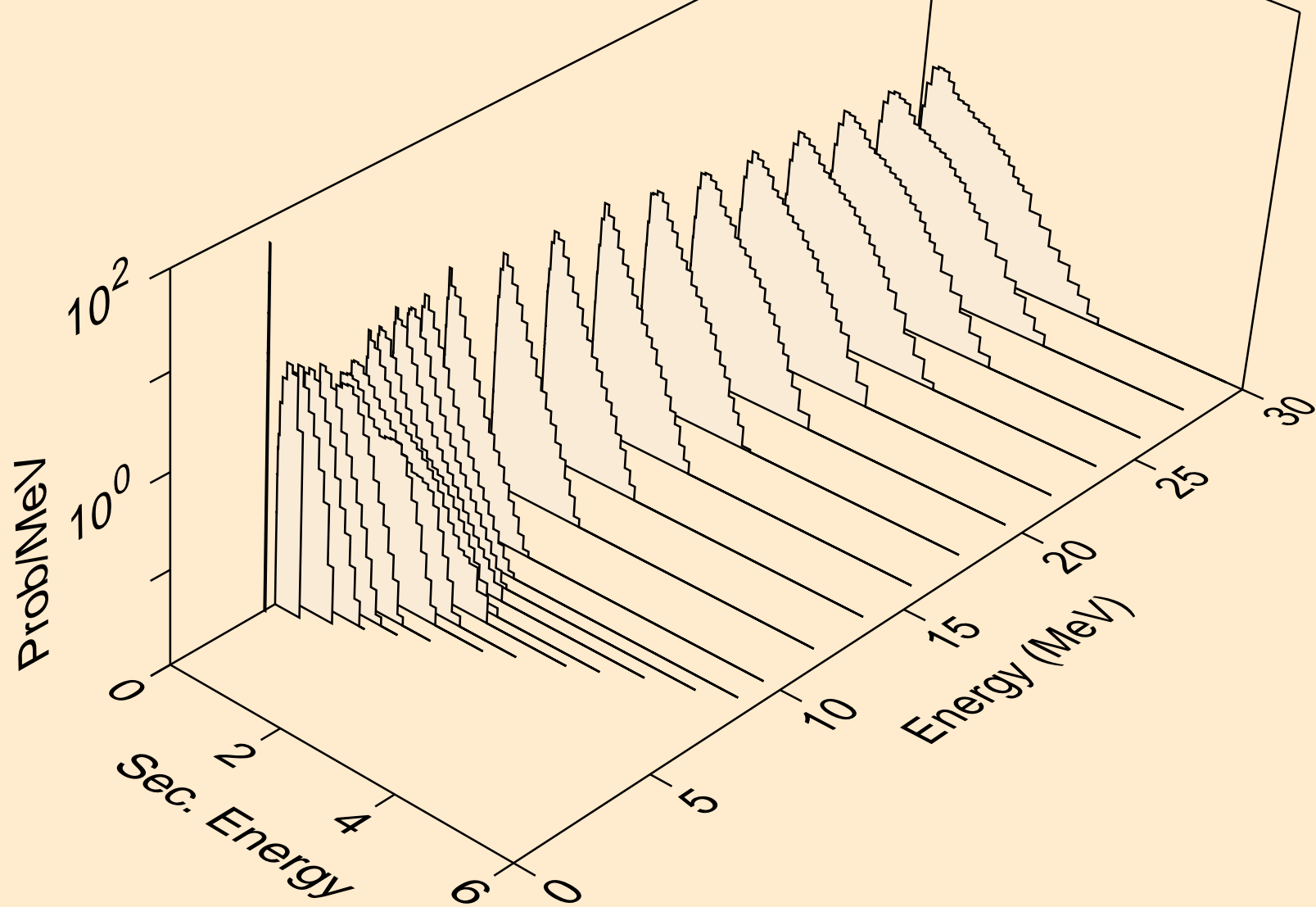
U239 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Neutron emission for (n,3n)



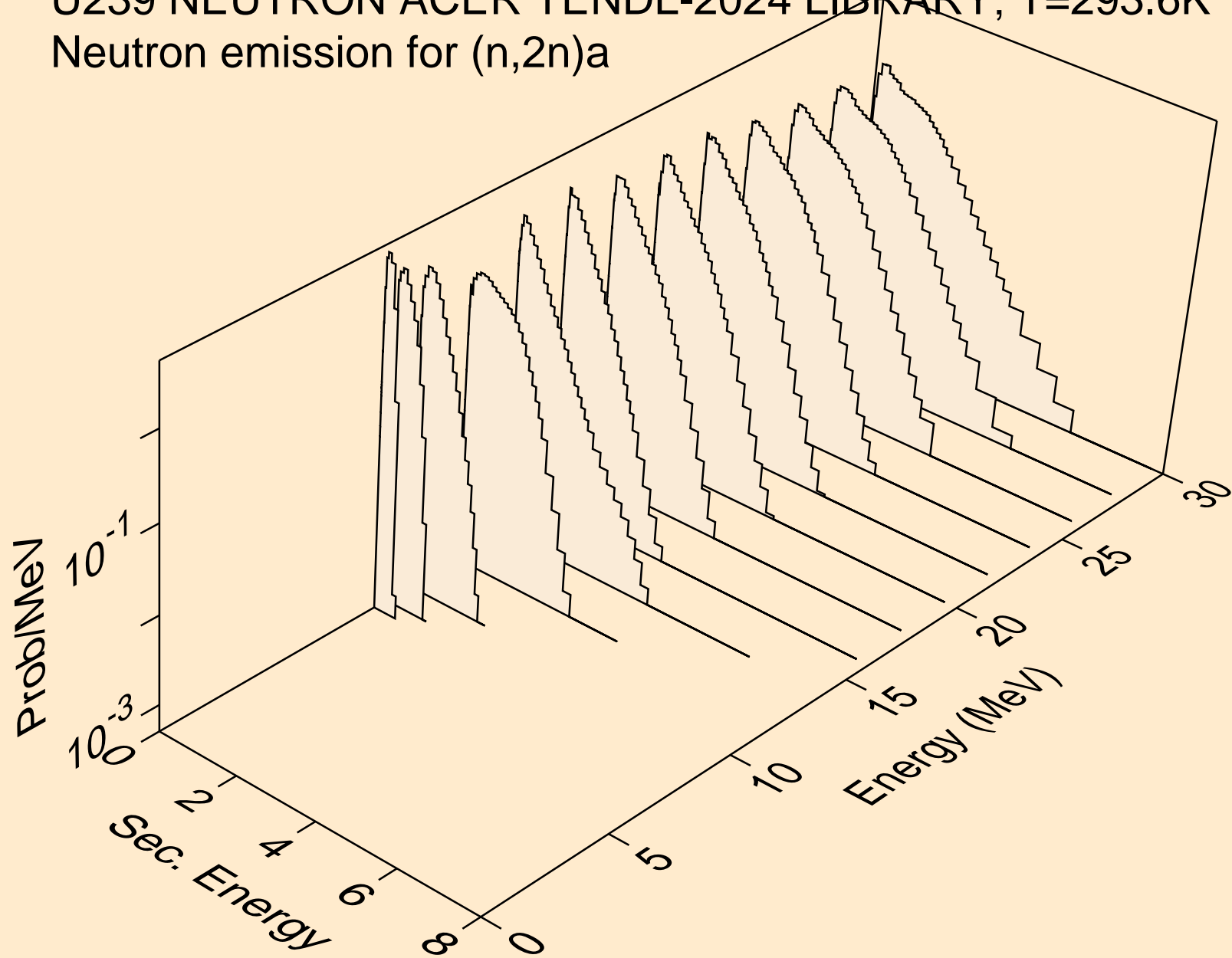
U239 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Neutron emission for fission



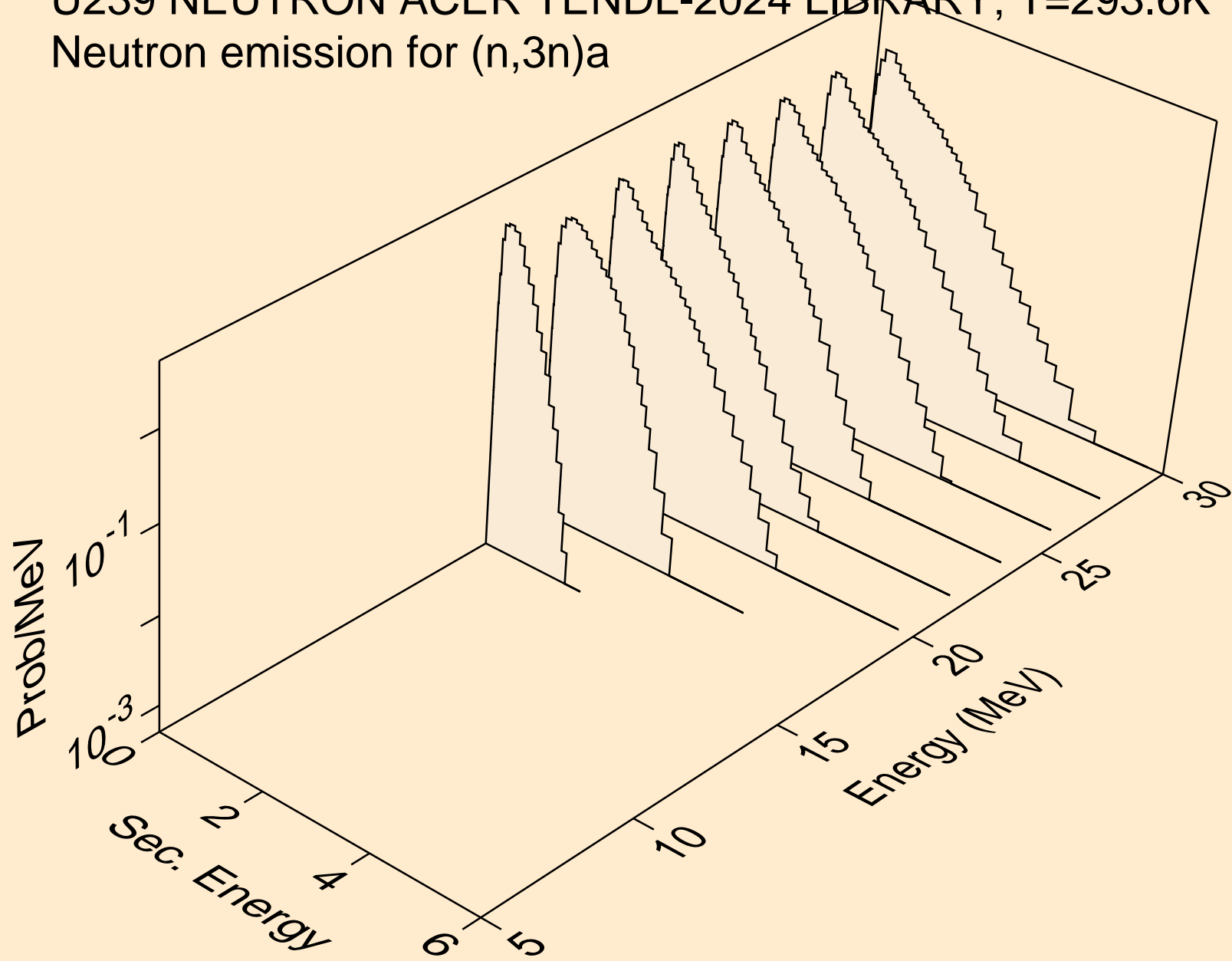
U239 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Neutron emission for (n,n\*)a



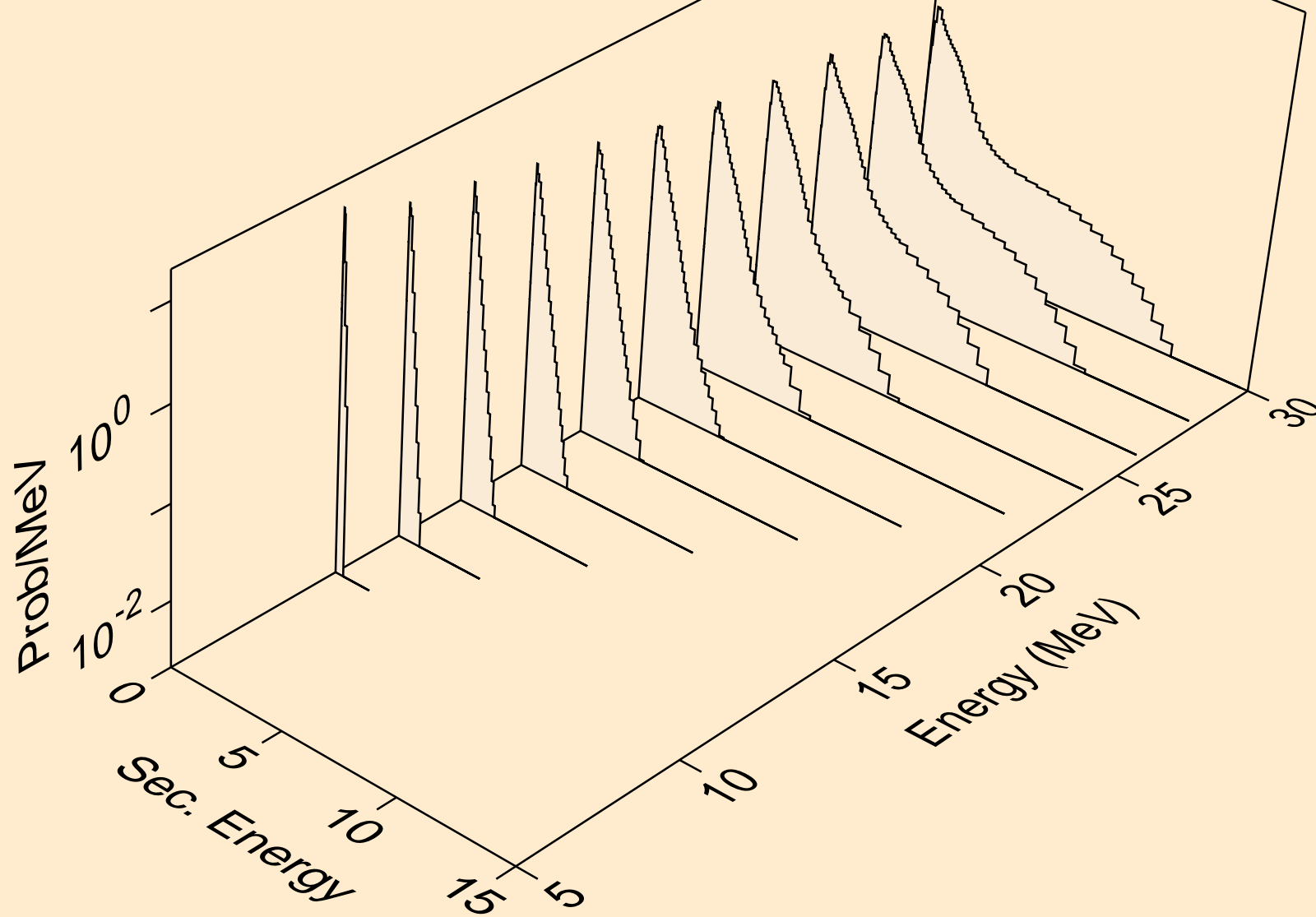
U239 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Neutron emission for (n,2n)a



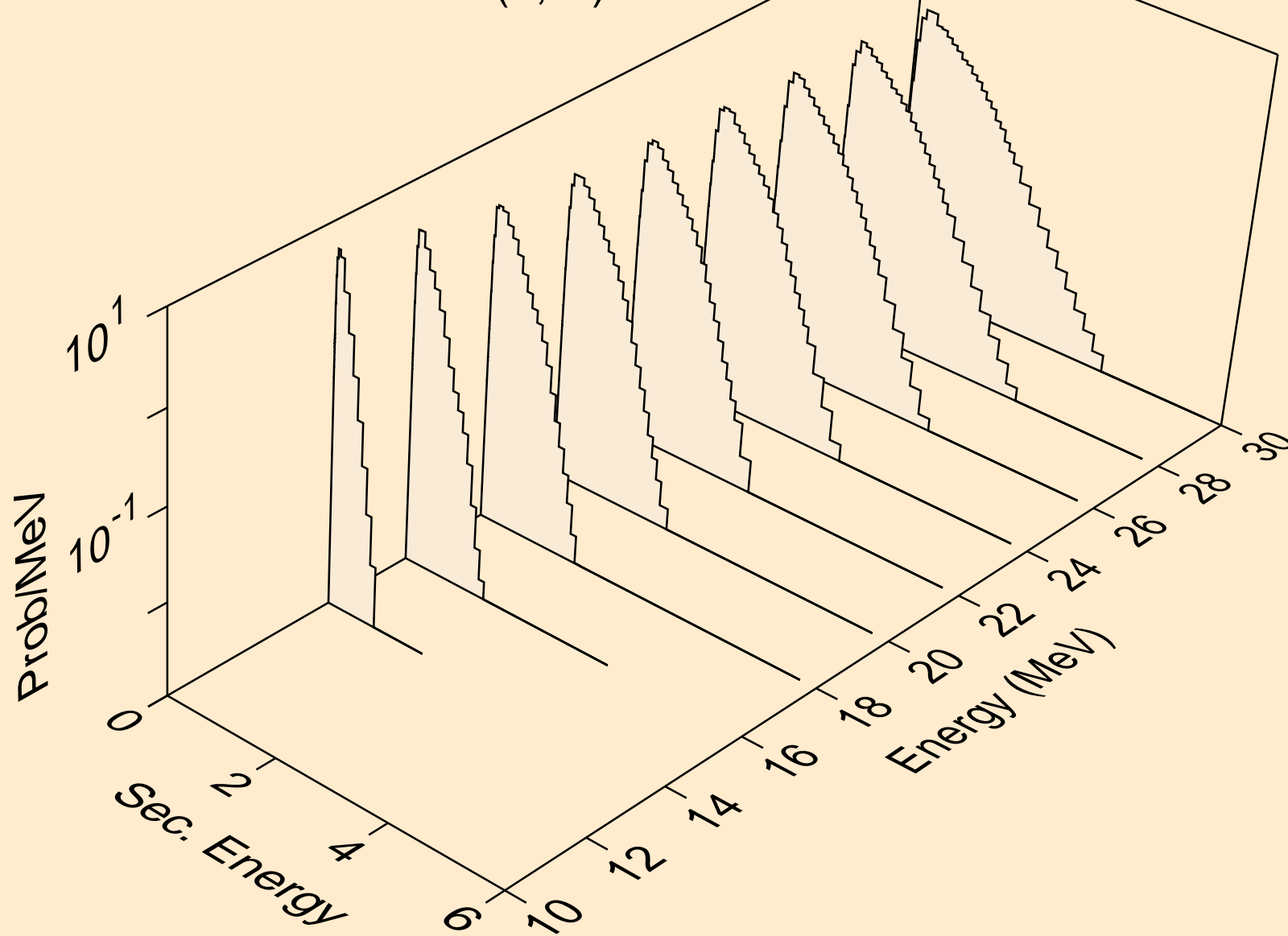
U239 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Neutron emission for (n,3n)a



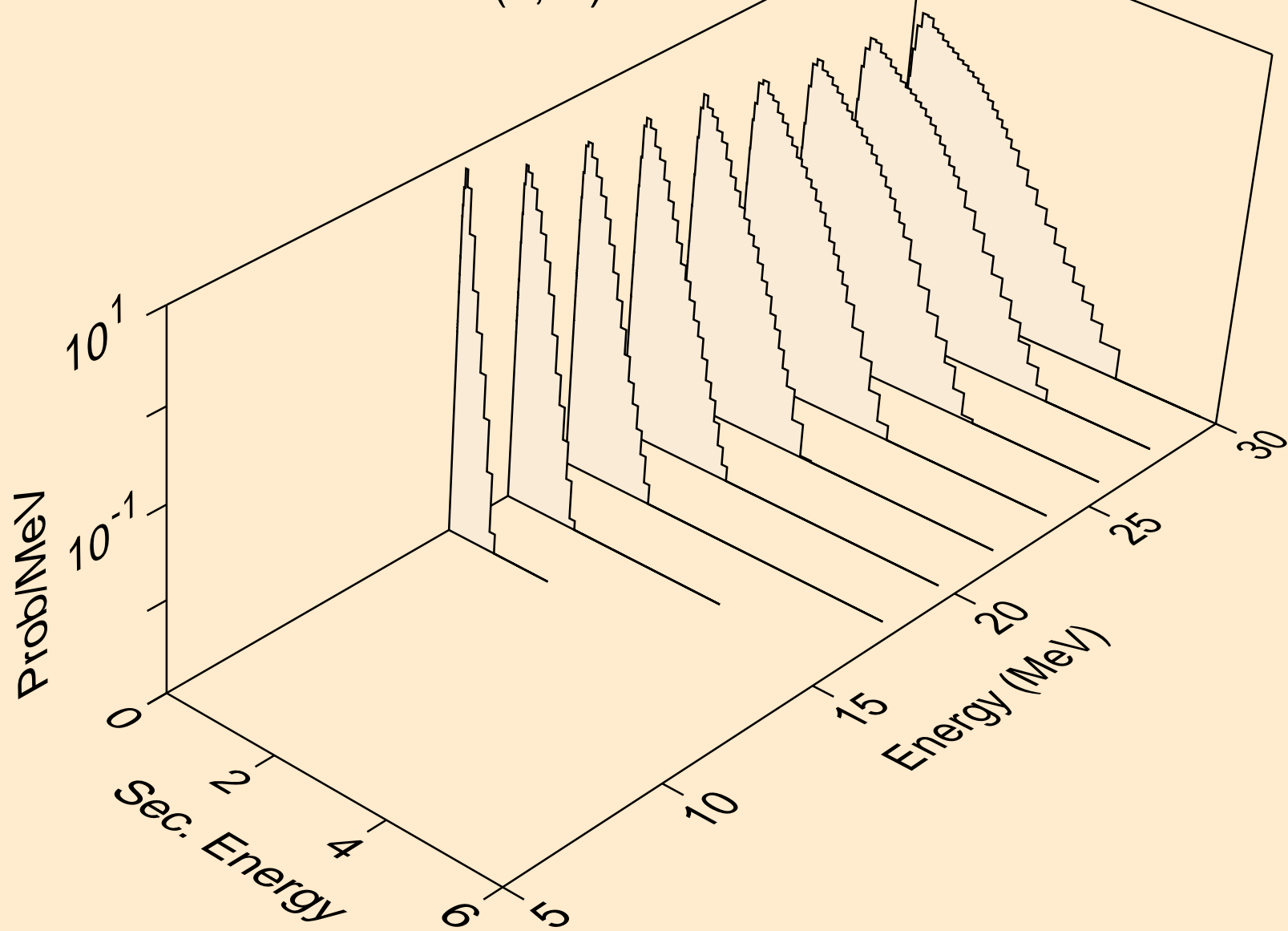
U239 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Neutron emission for (n,n\*)p



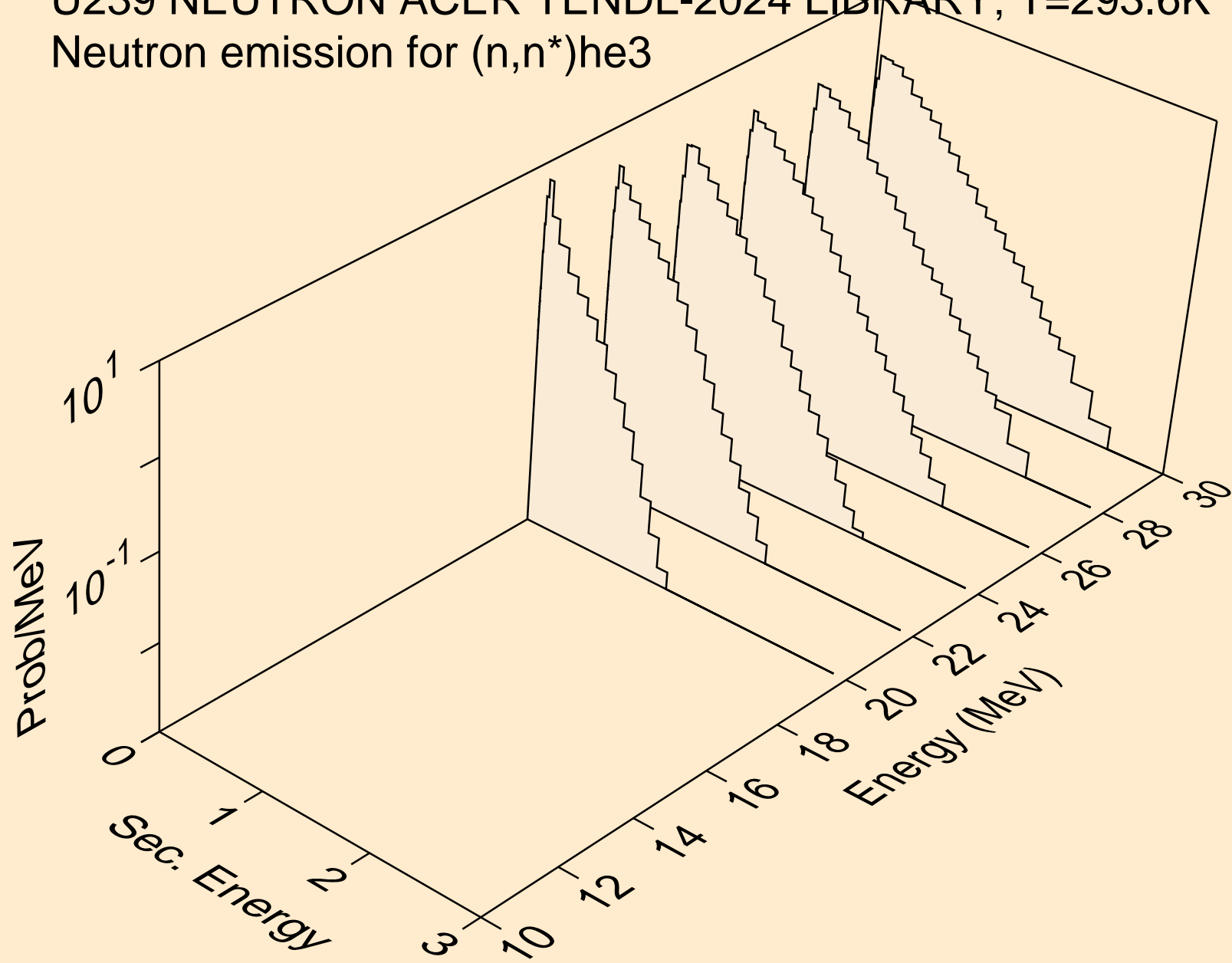
U239 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Neutron emission for (n,n\*)d



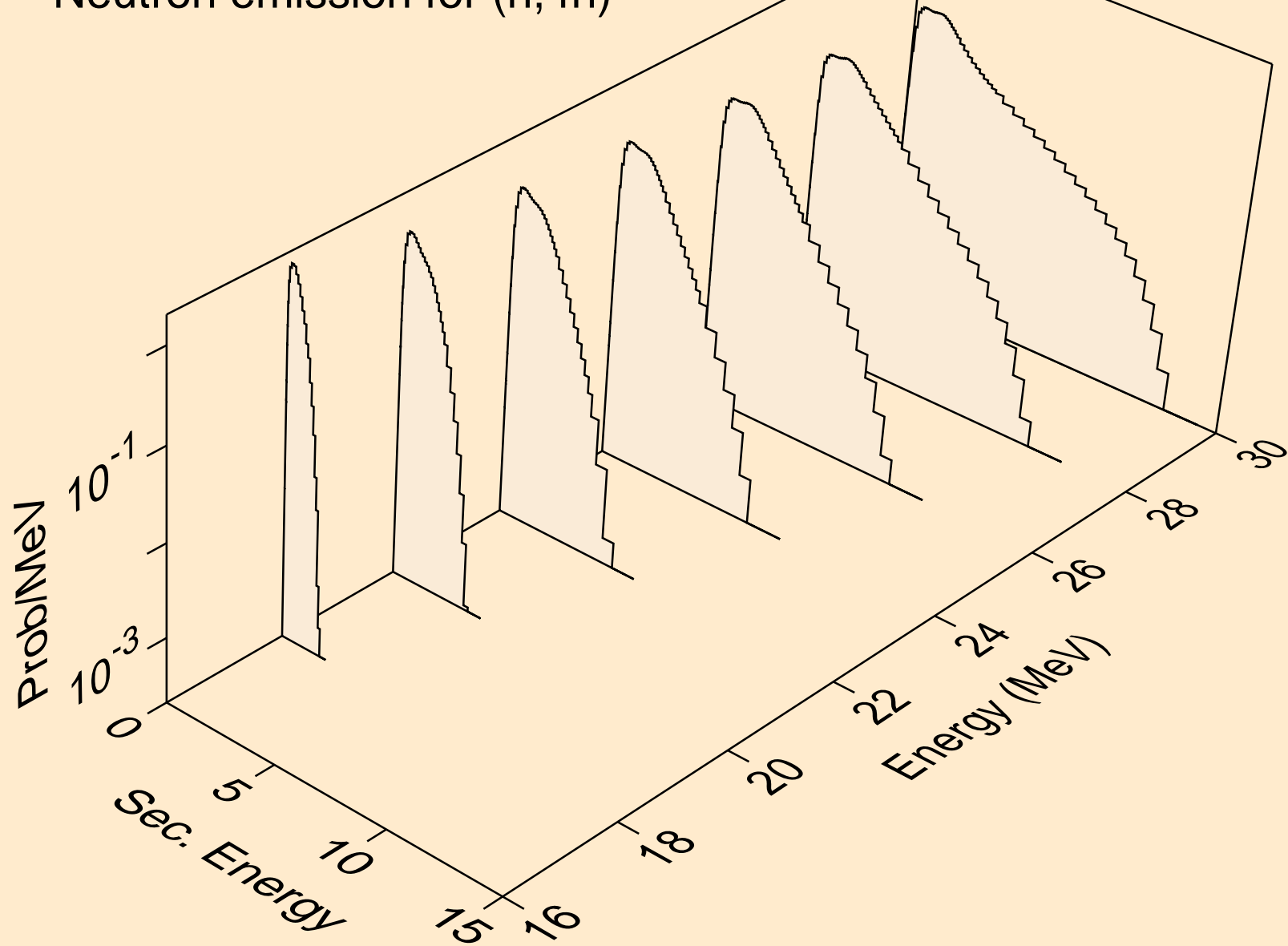
U239 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Neutron emission for (n,n\*)t



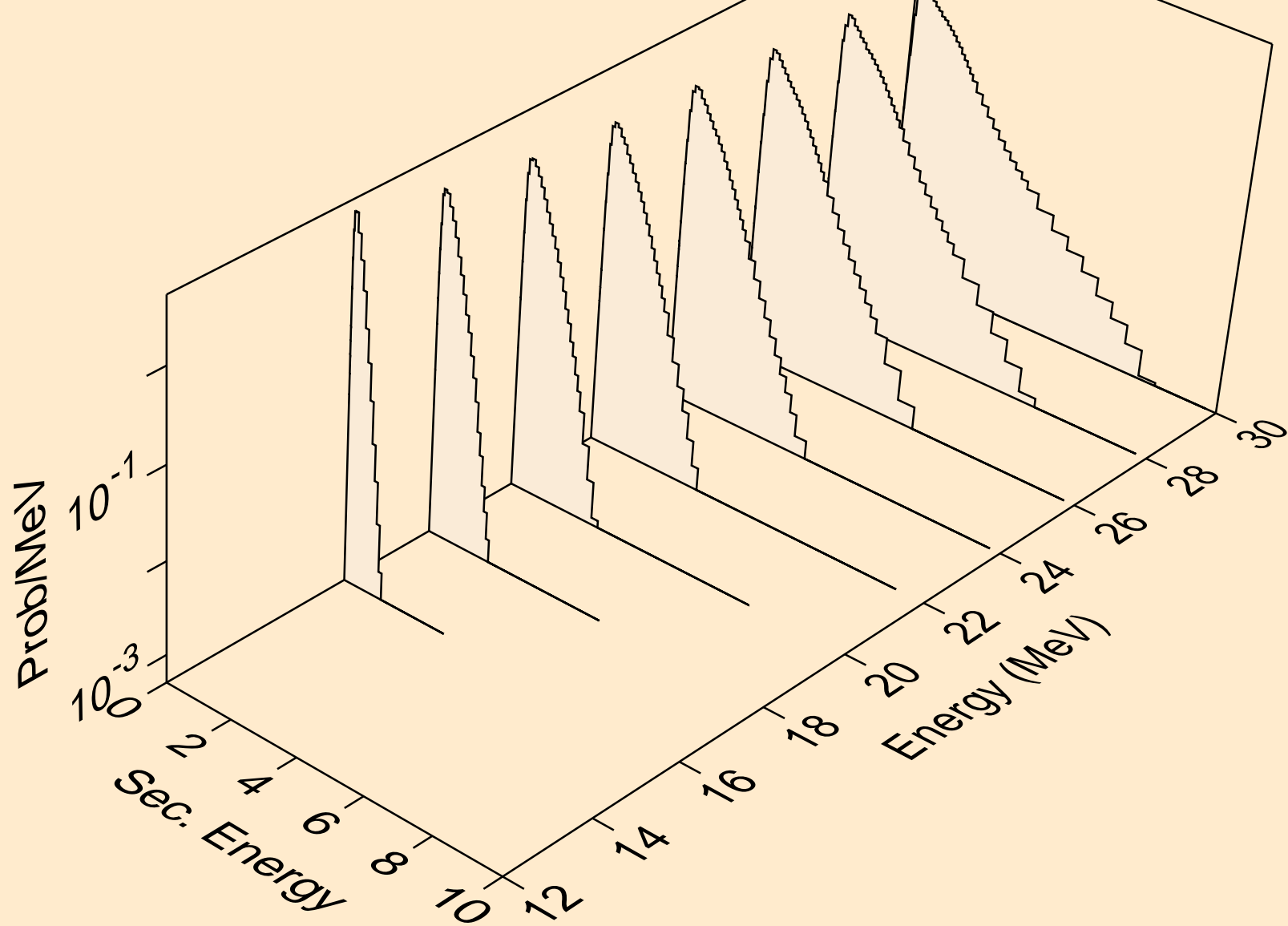
U239 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Neutron emission for (n,n\*)he3



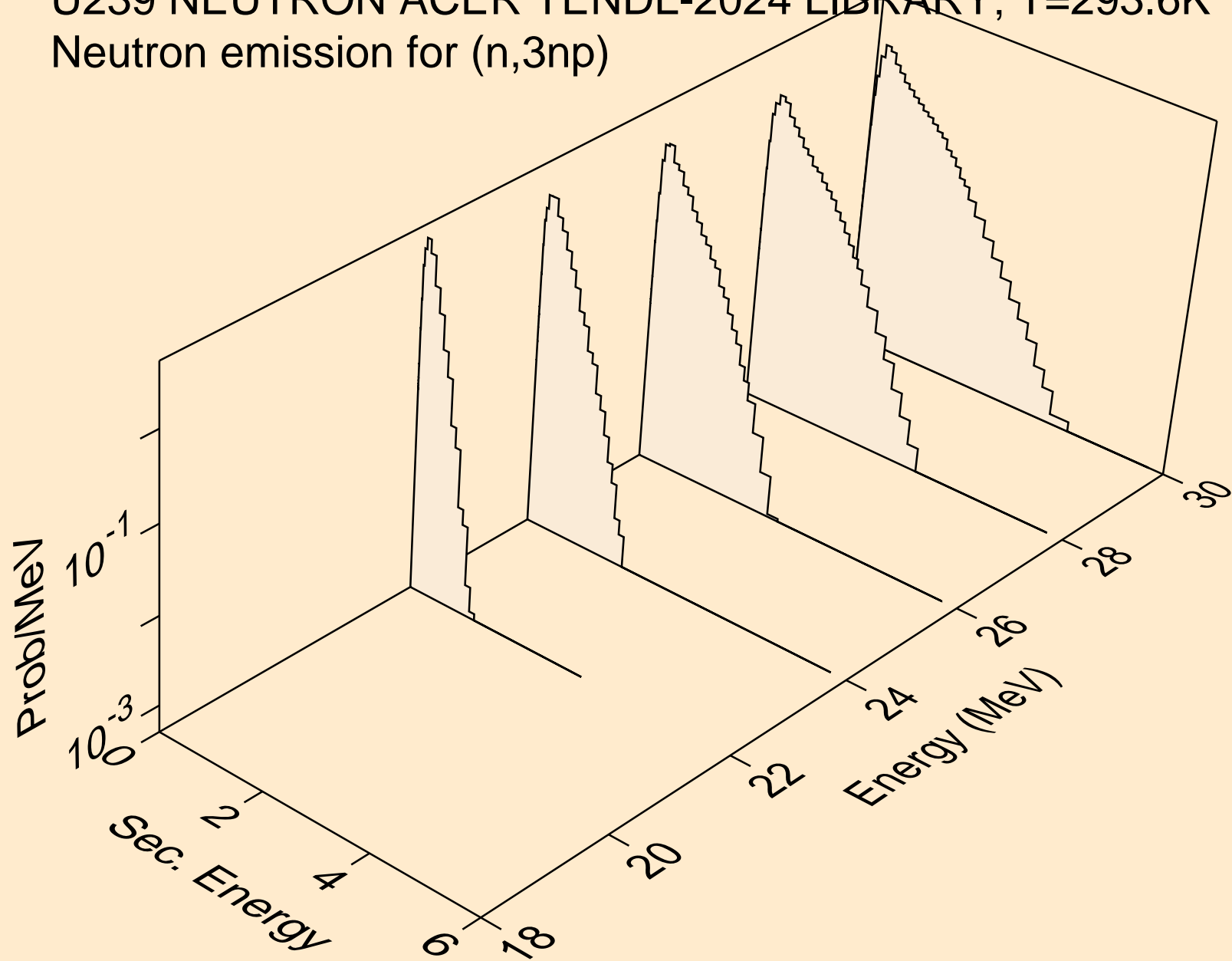
U239 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Neutron emission for (n,4n)



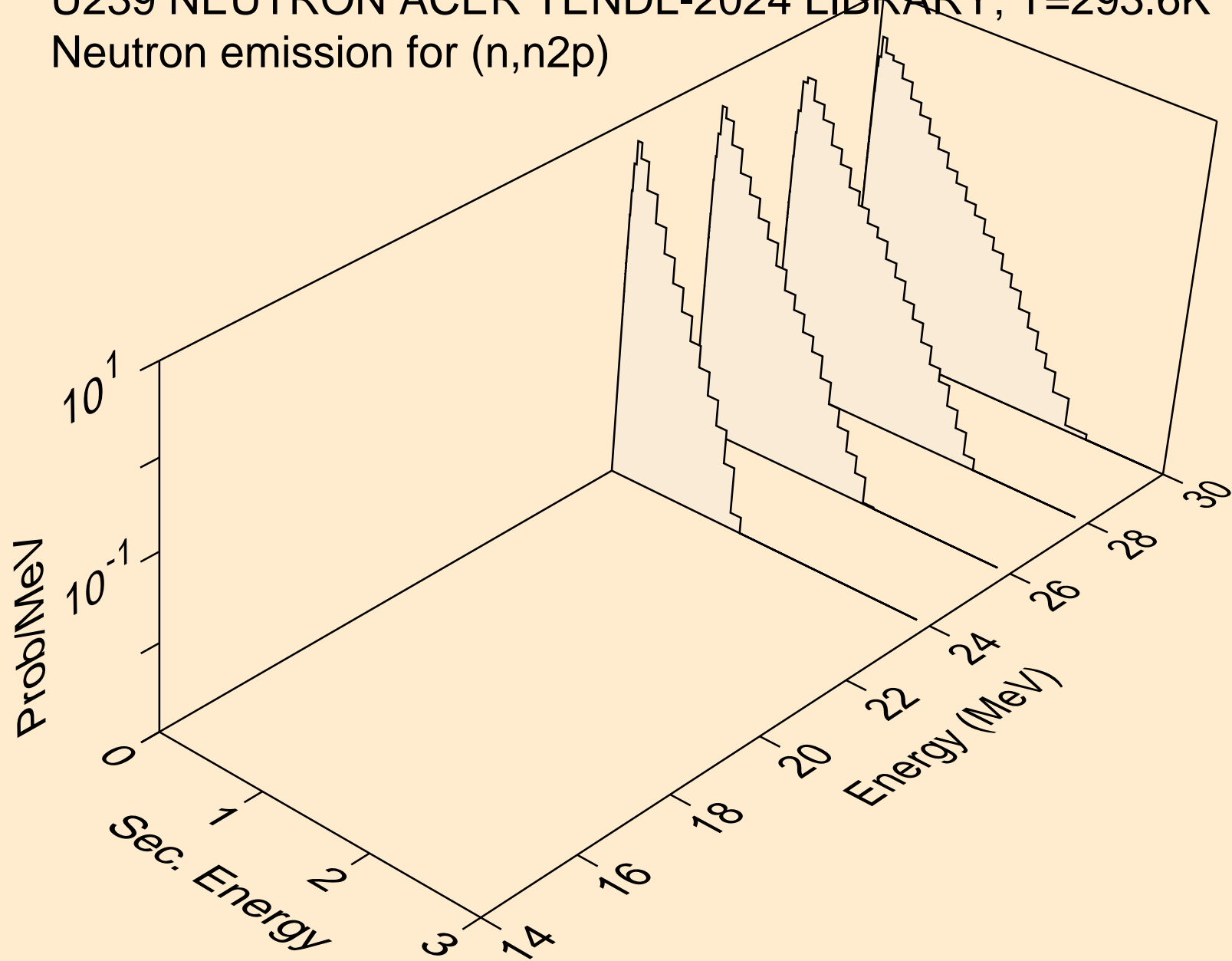
U239 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Neutron emission for (n,2np)



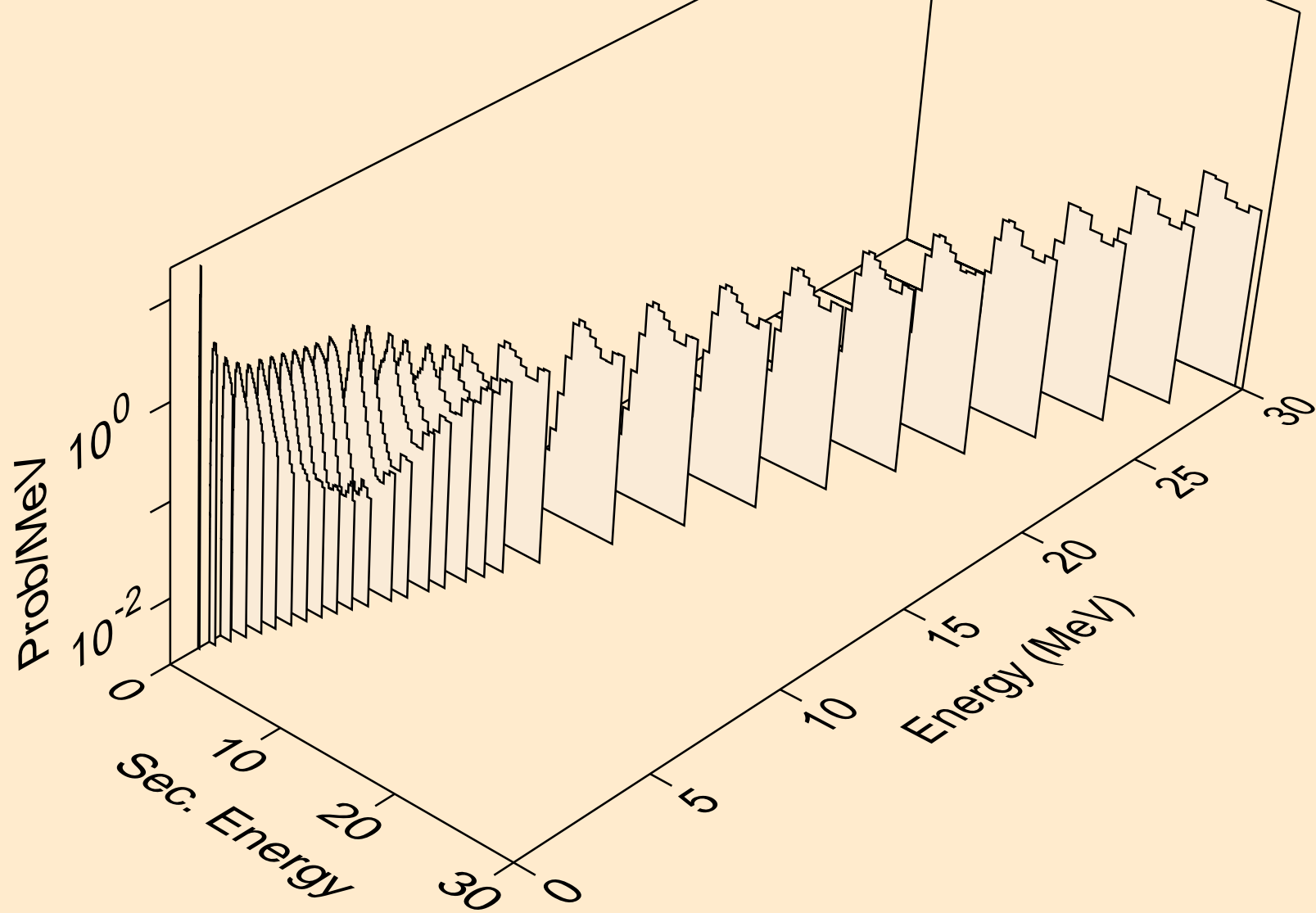
U239 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Neutron emission for (n,3np)



U239 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Neutron emission for (n,n2p)

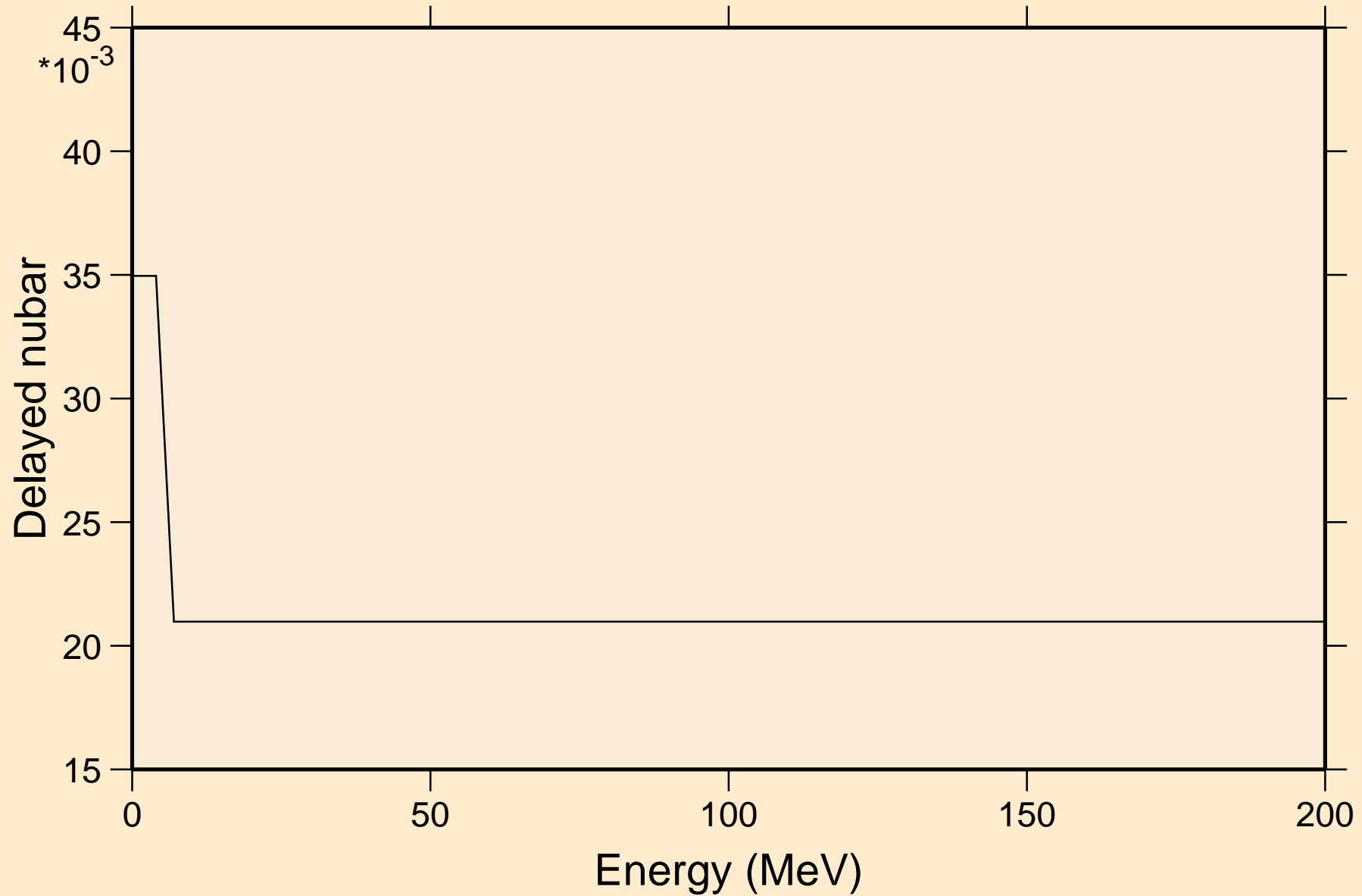


U239 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Neutron emission for (n,n\*c)



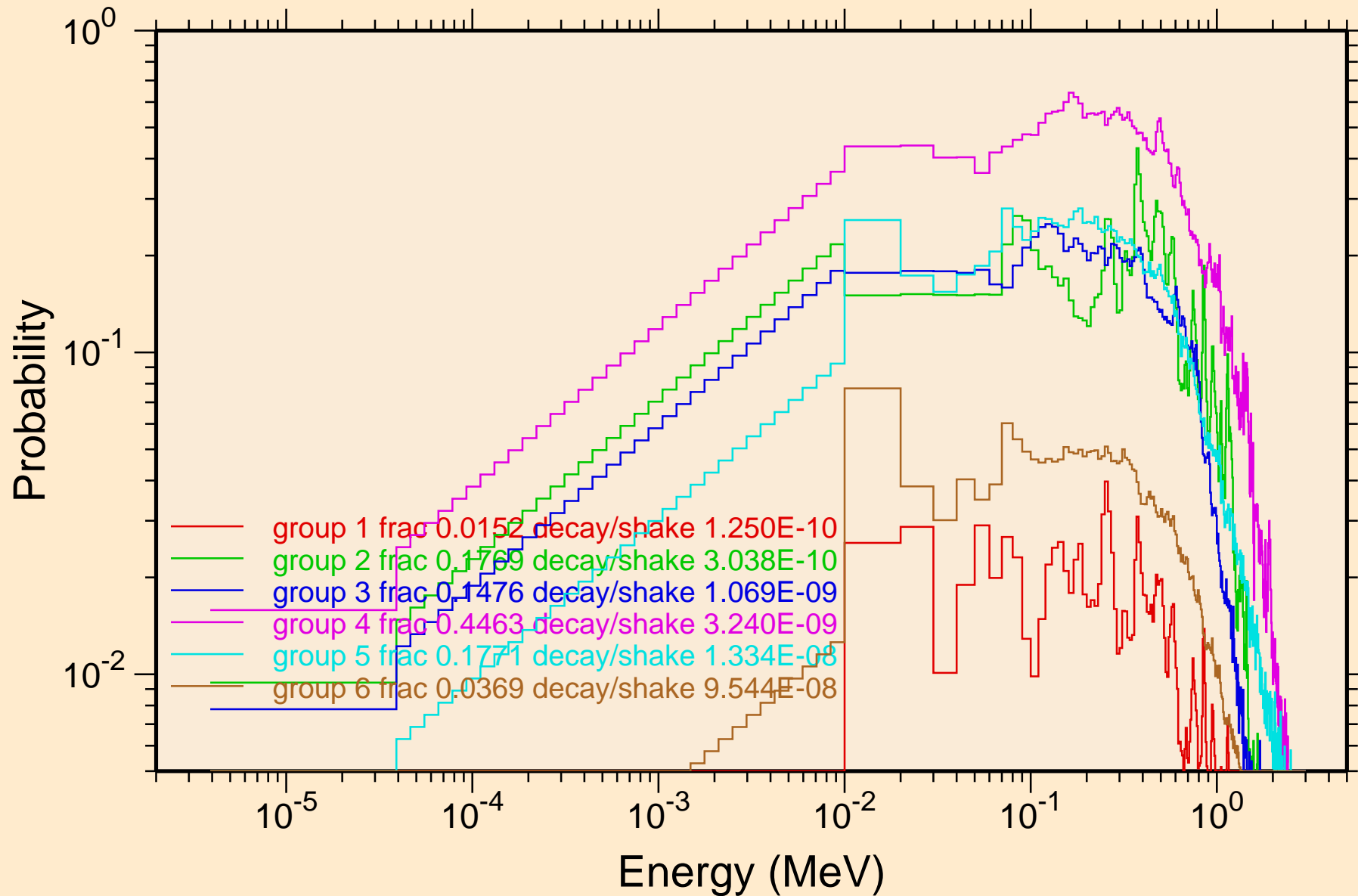
# U239 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K

## Delayed nubar

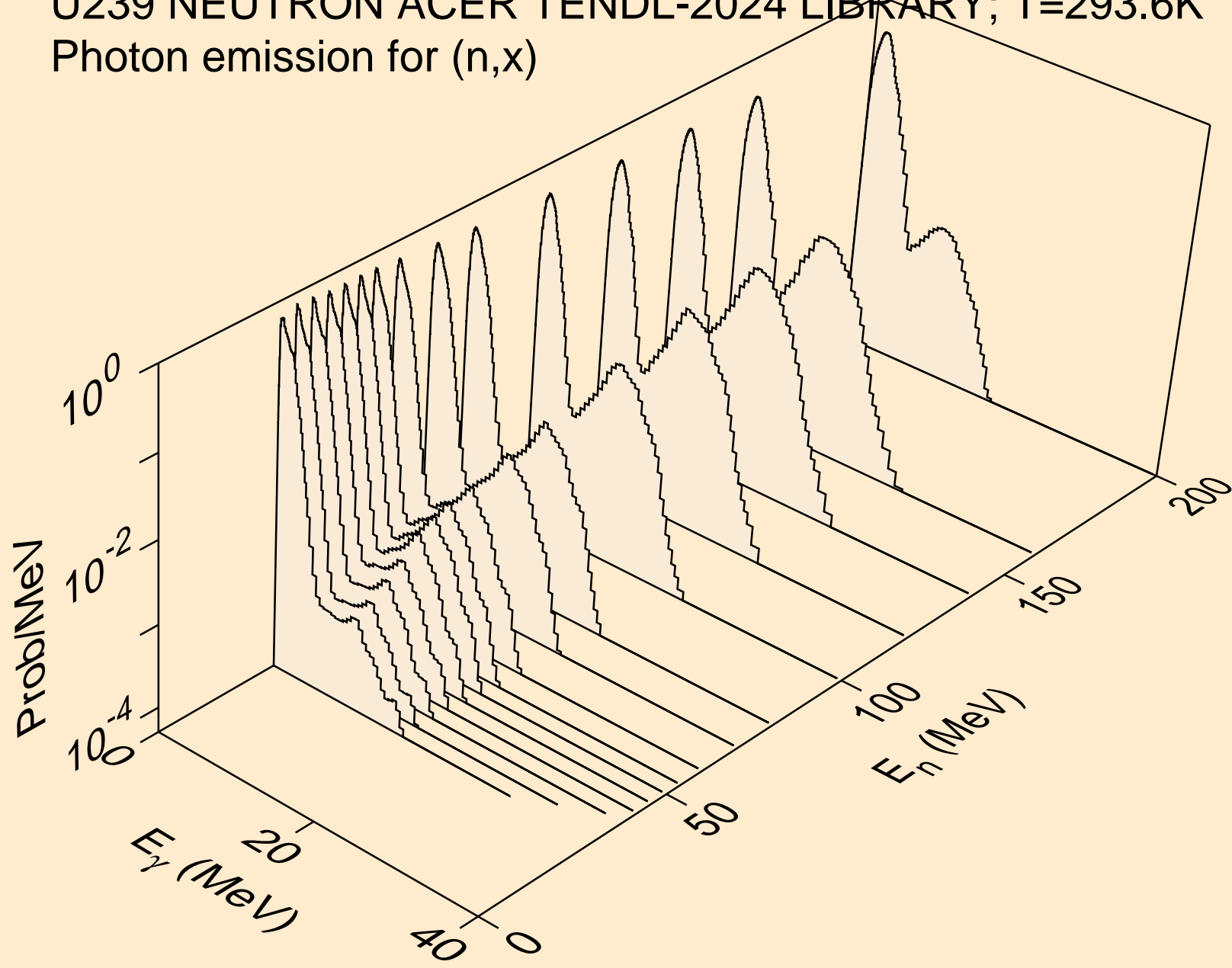


# U239 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K

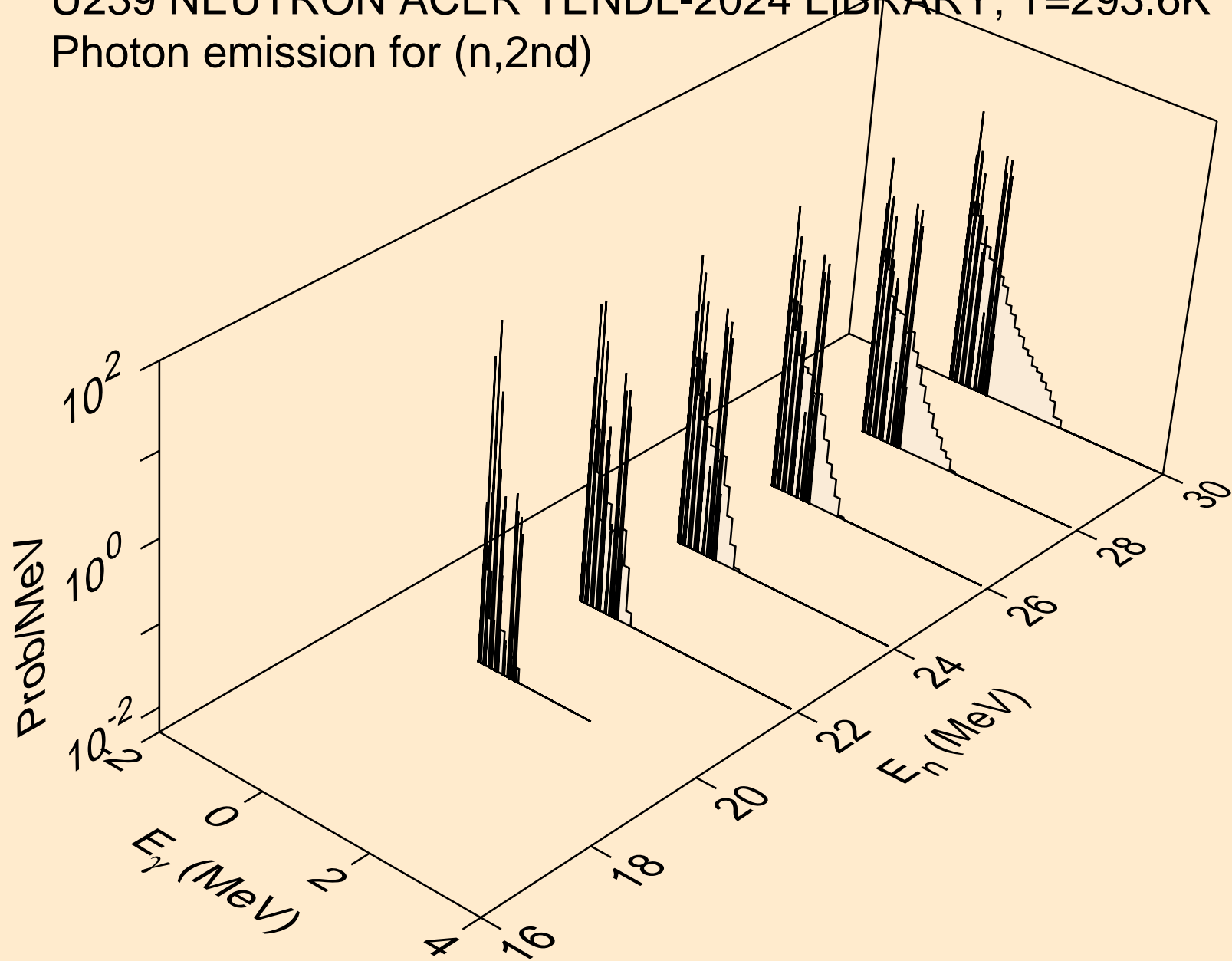
## Delayed neutron spectra



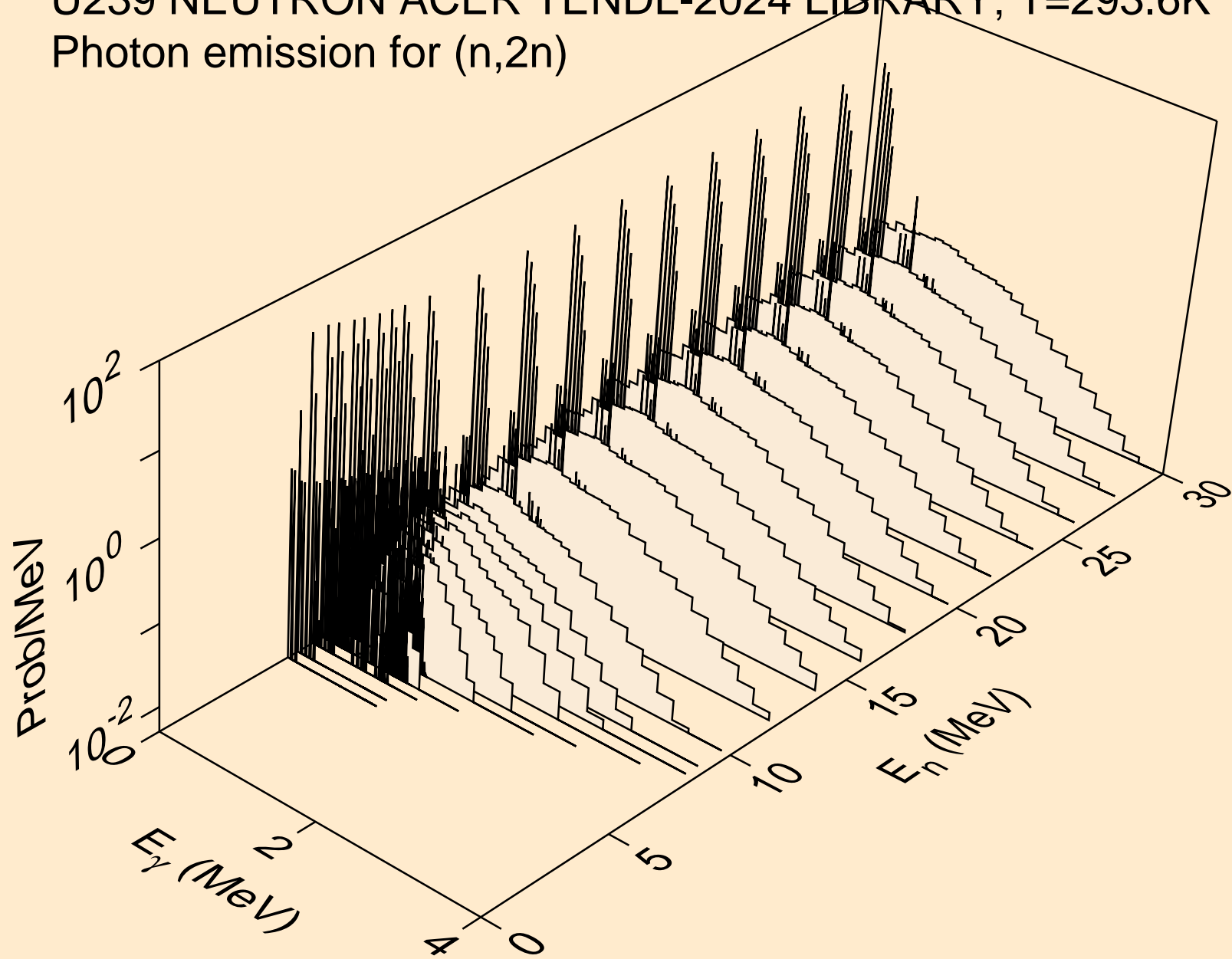
U239 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Photon emission for (n,x)



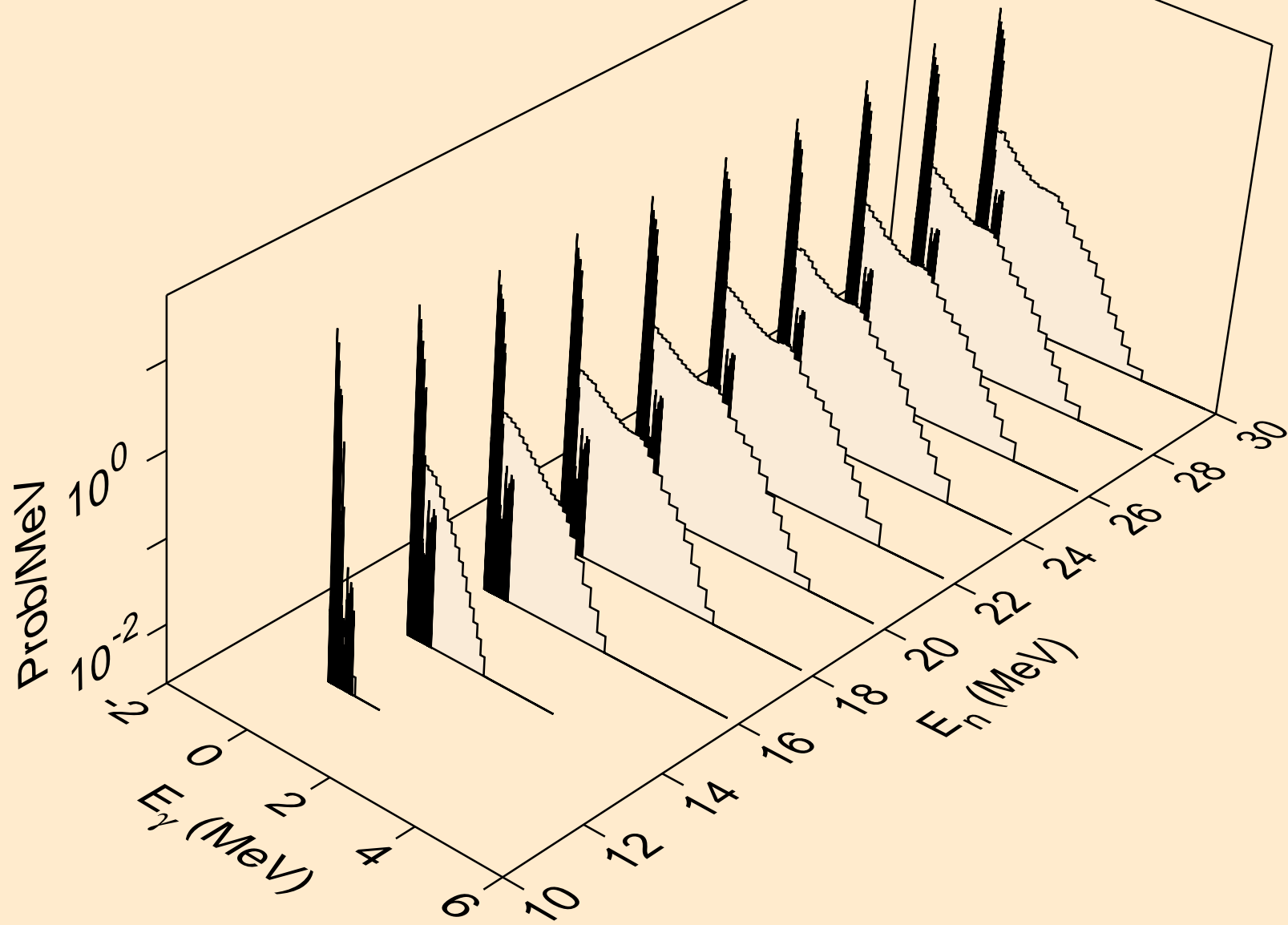
U239 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Photon emission for (n,2nd)



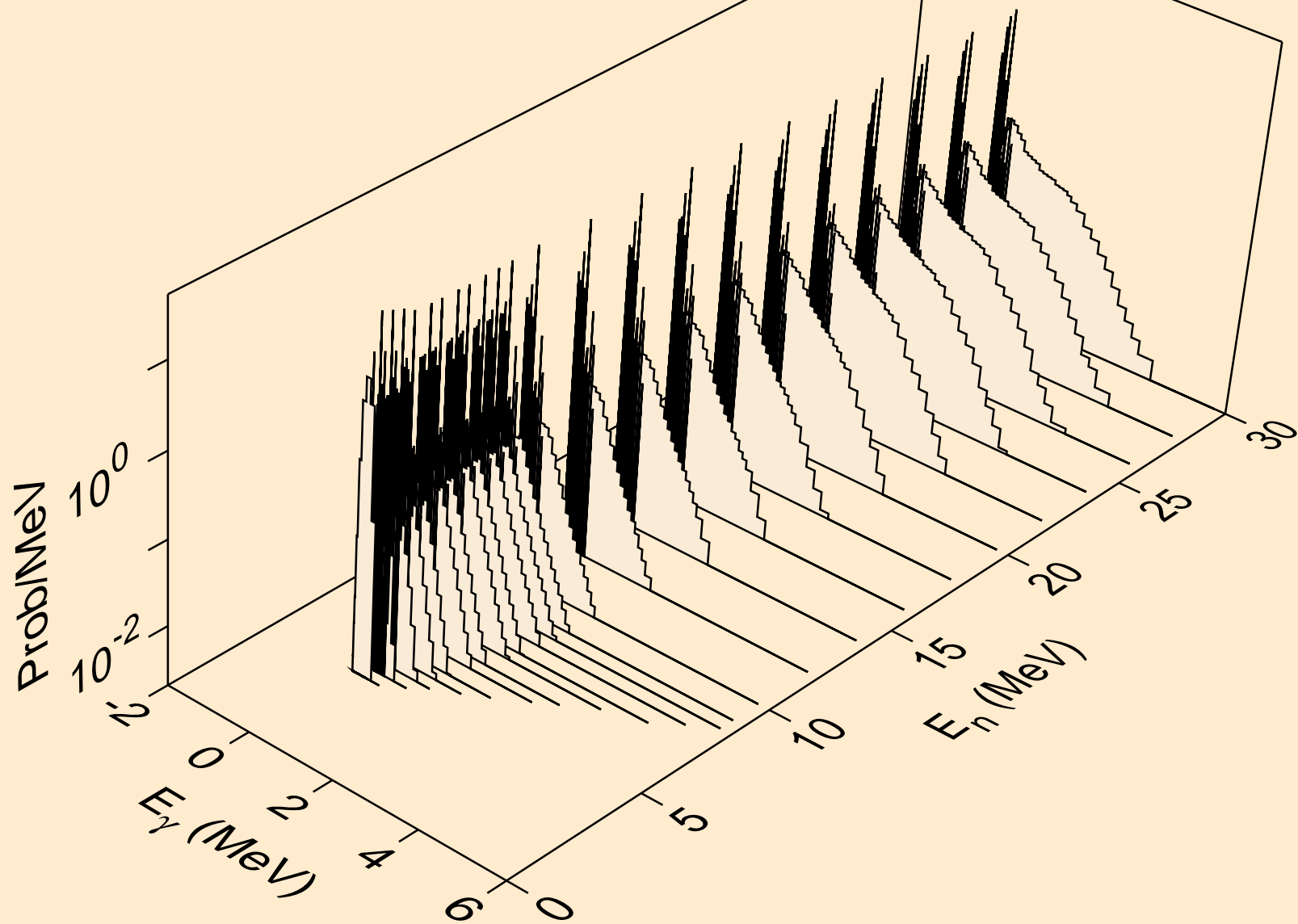
U239 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Photon emission for (n,2n)



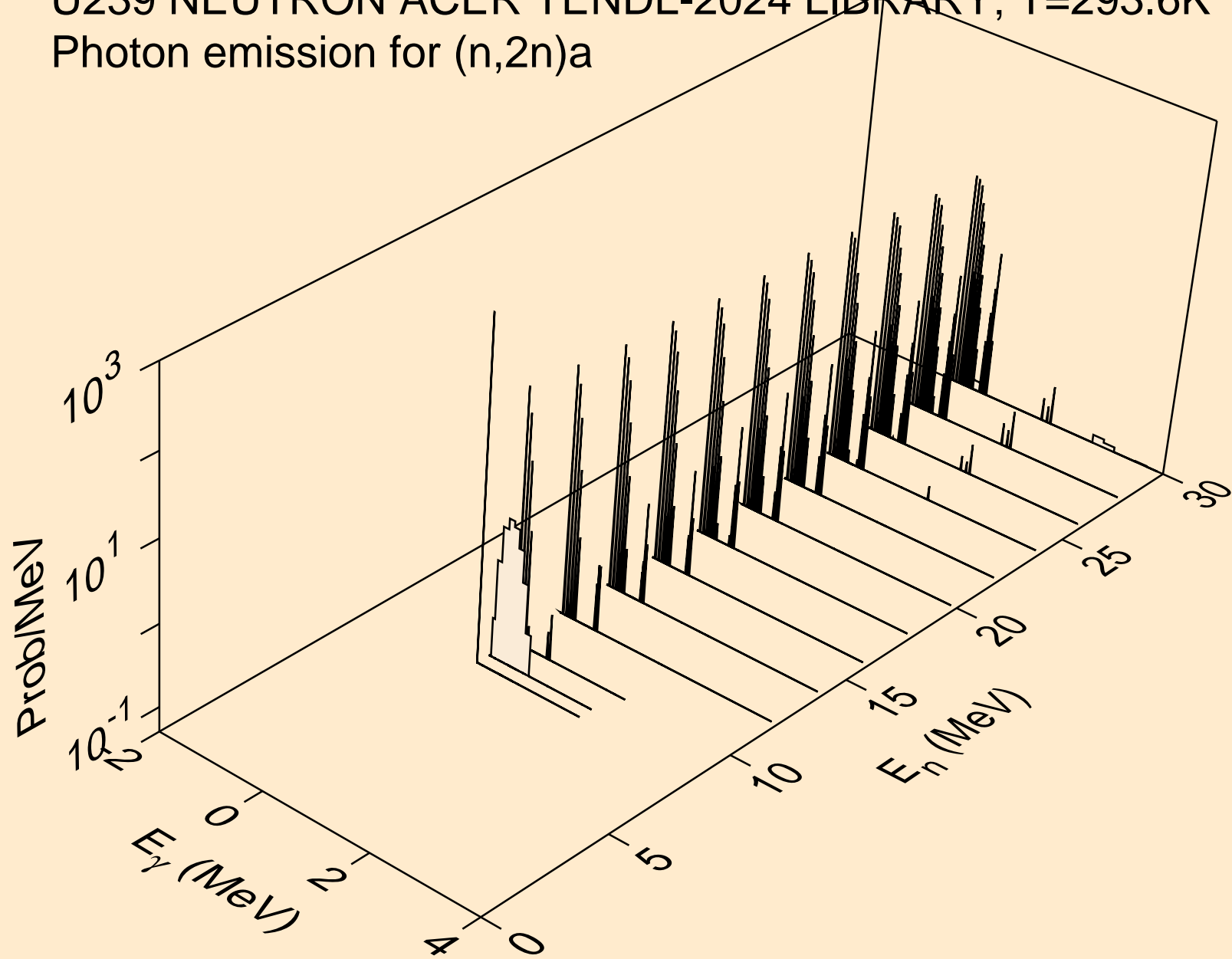
U239 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Photon emission for (n,3n)



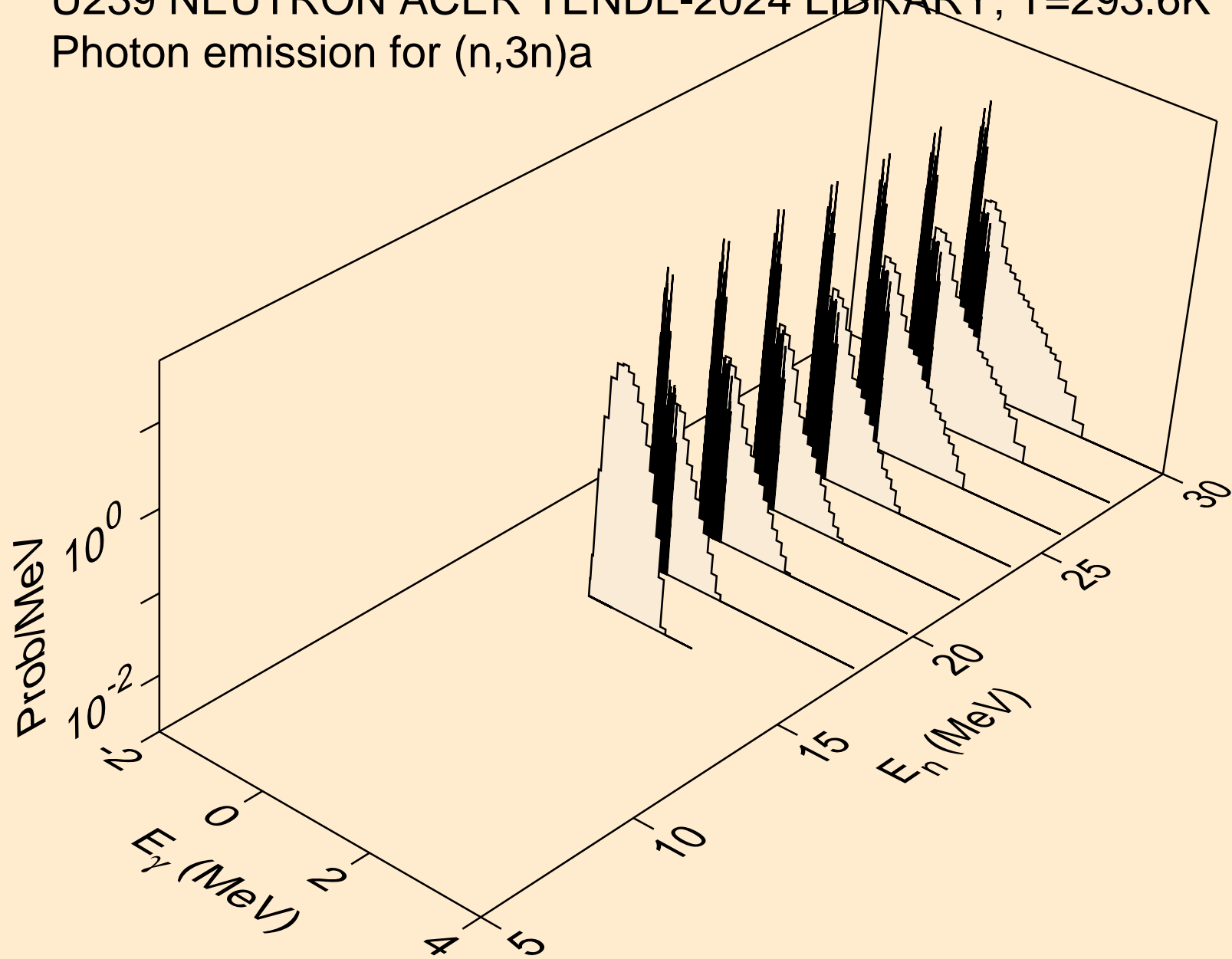
U239 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Photon emission for (n,n\*)a



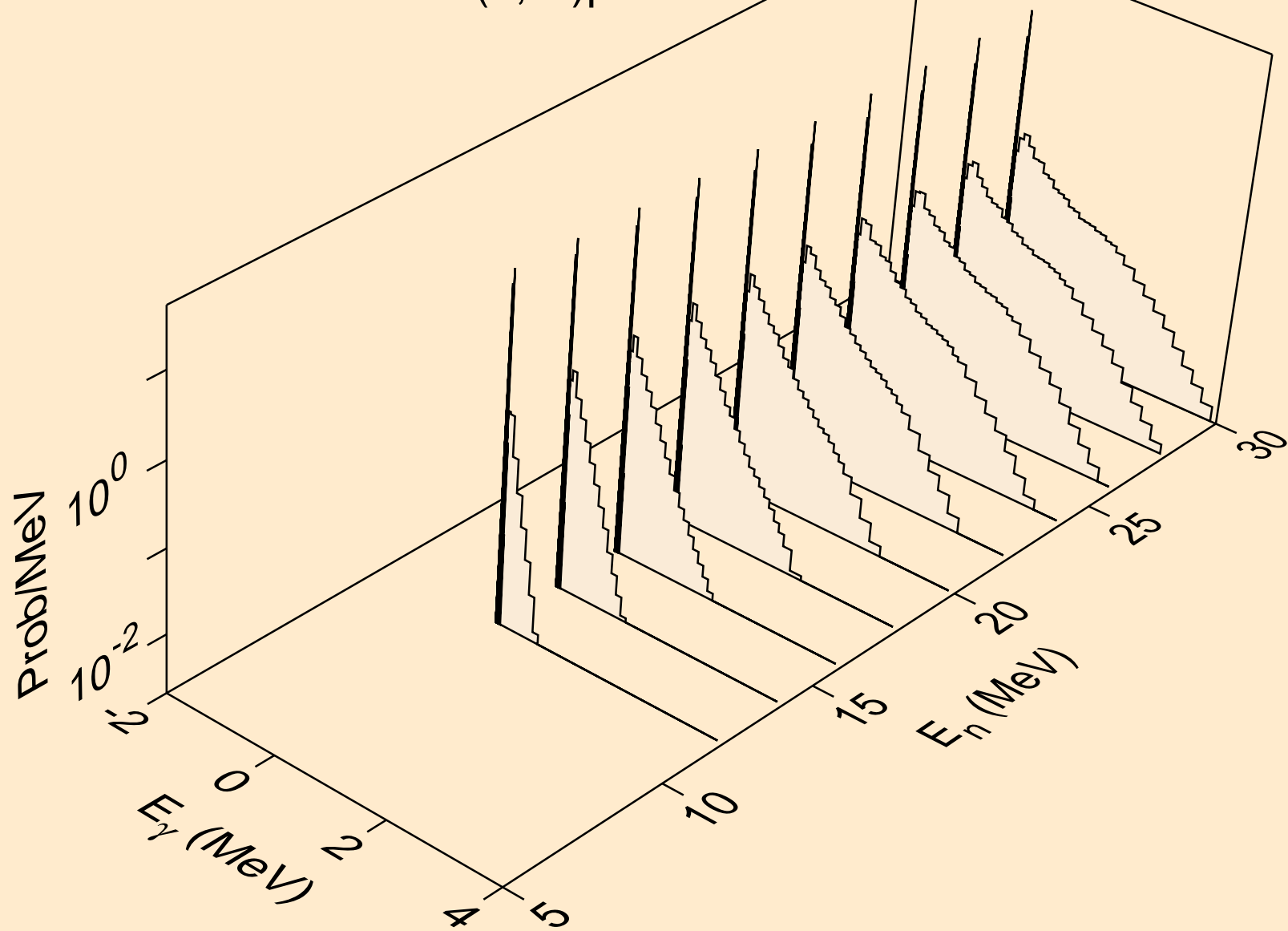
U239 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Photon emission for (n,2n)a



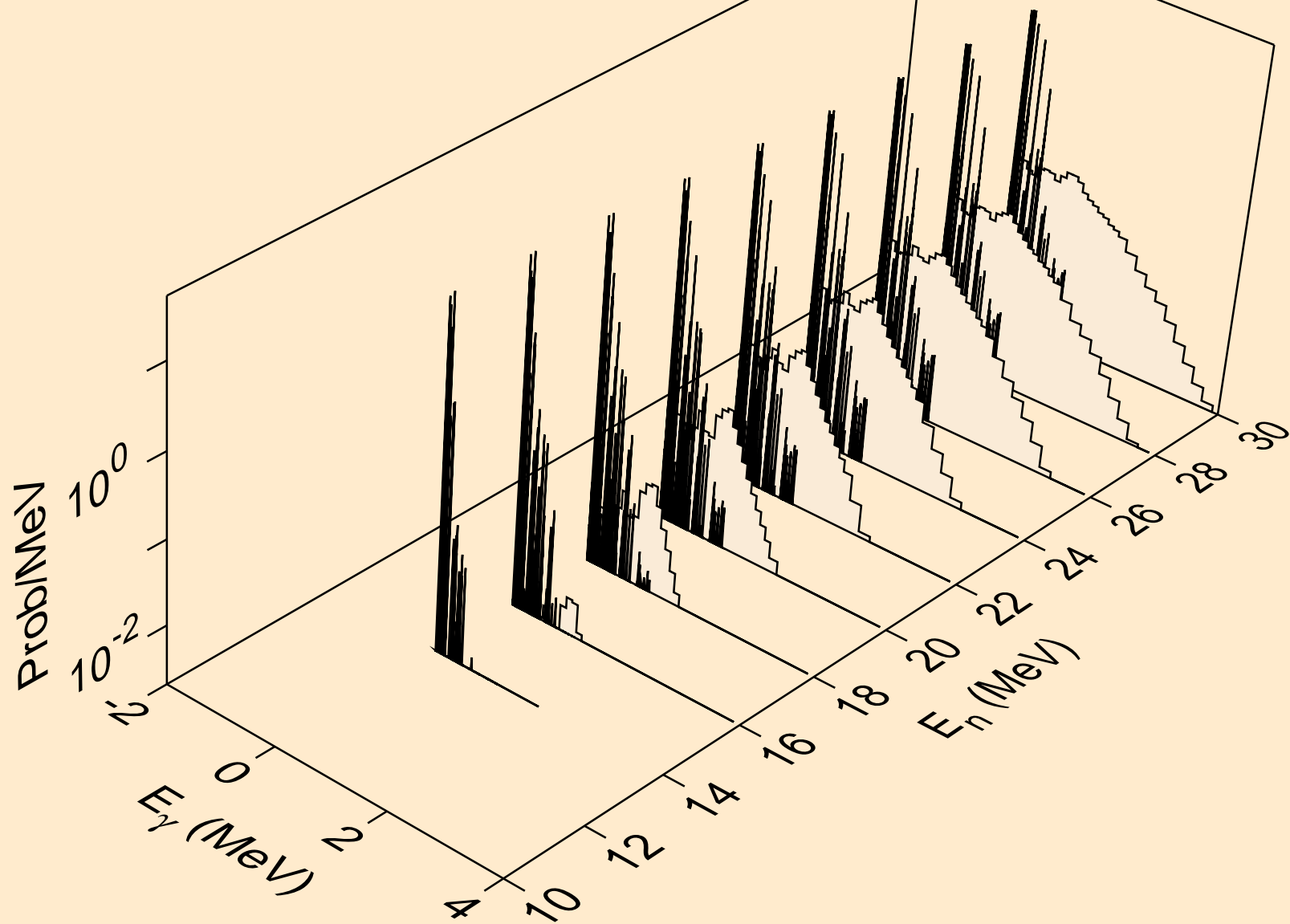
U239 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Photon emission for (n,3n)a



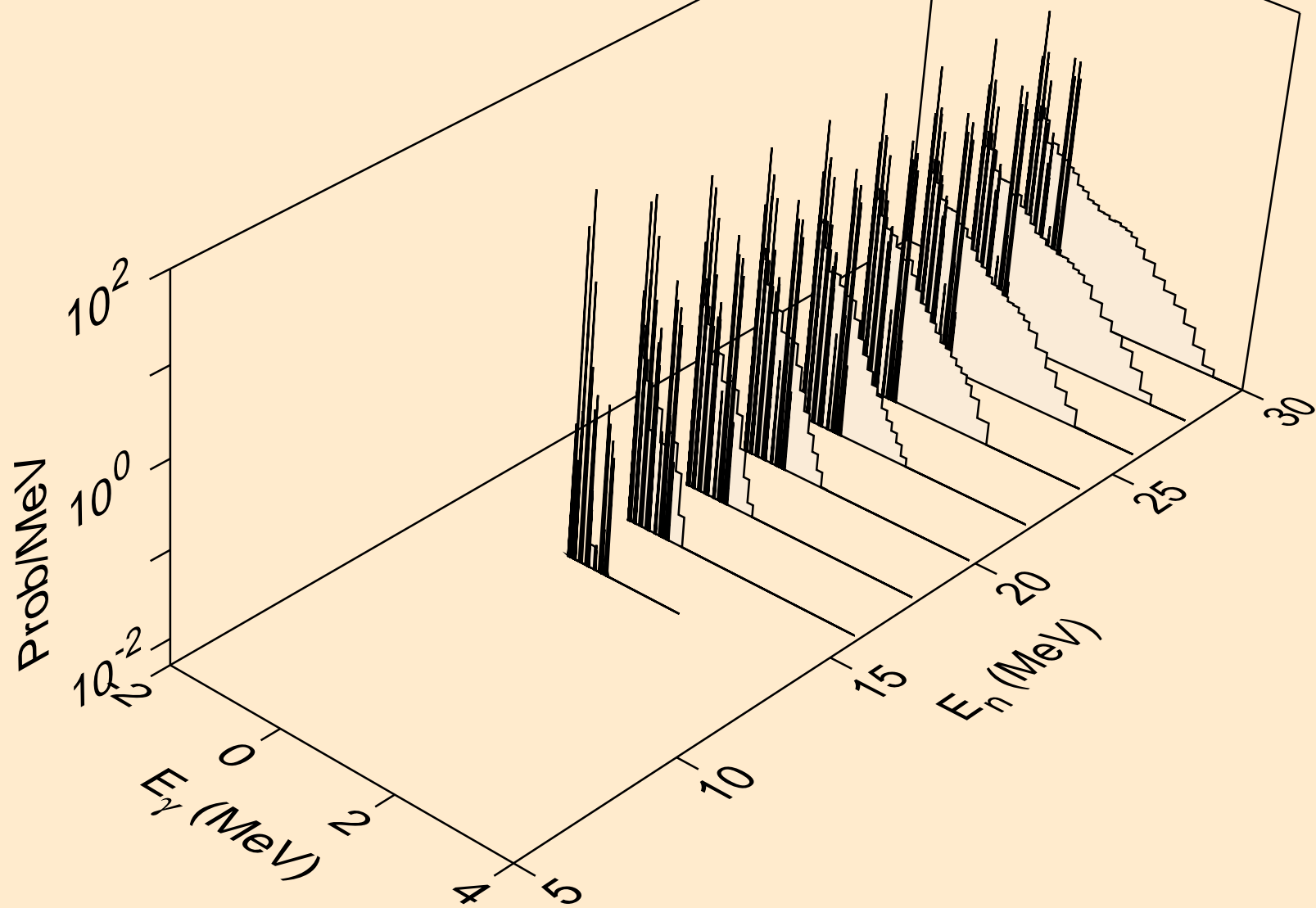
U239 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Photon emission for (n,n\*)p



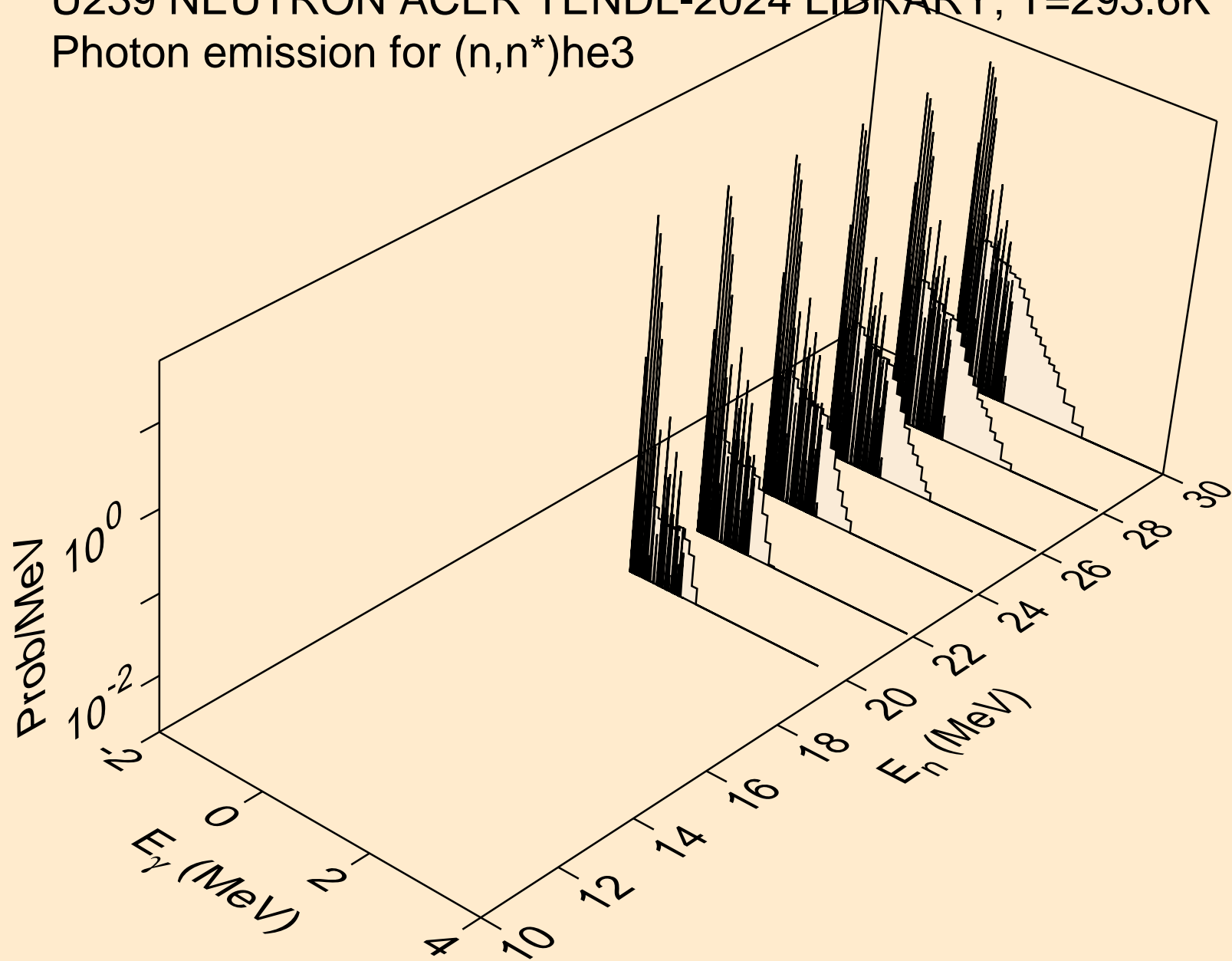
U239 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Photon emission for (n,n\*)d



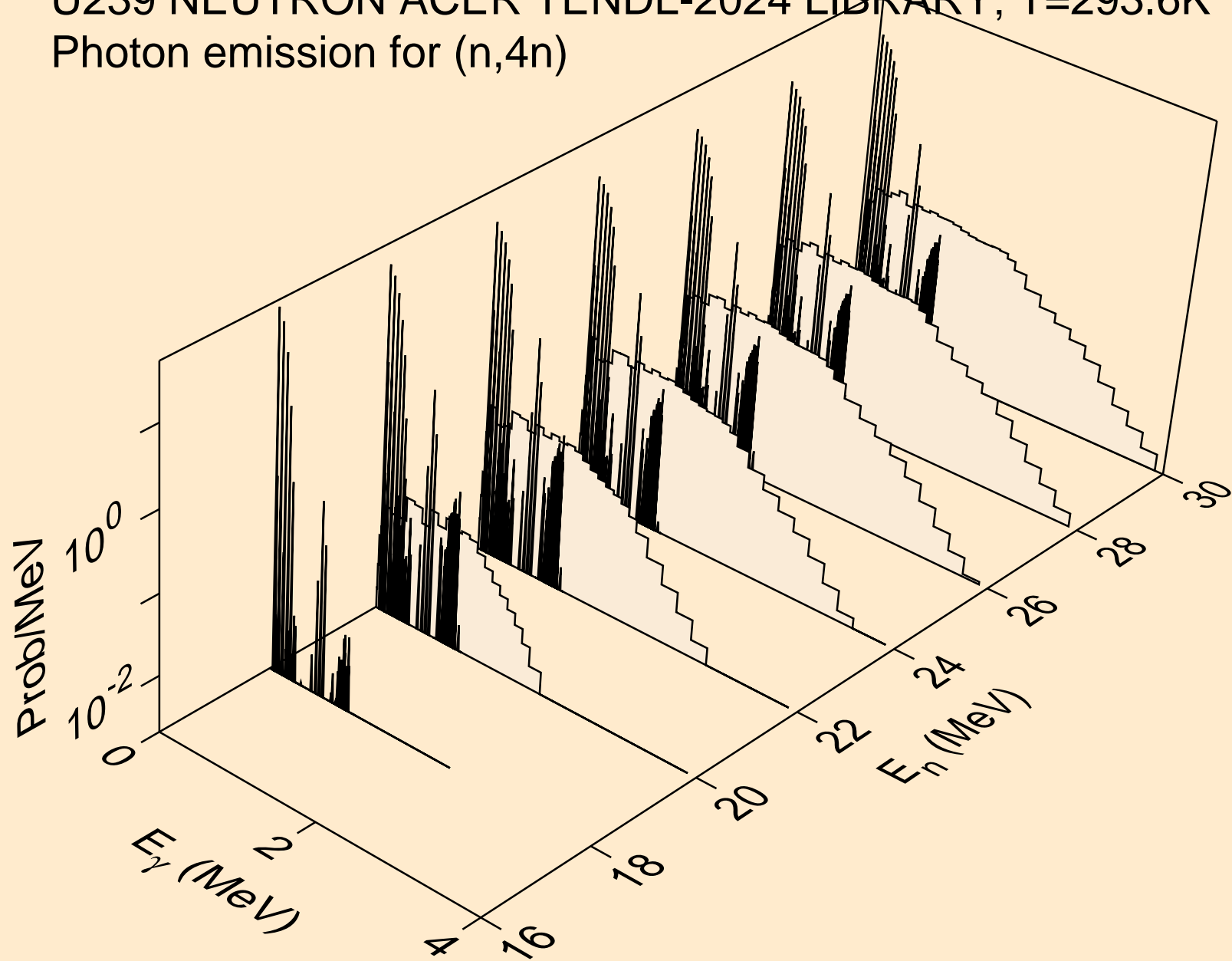
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Photon emission for (n,n\*)t



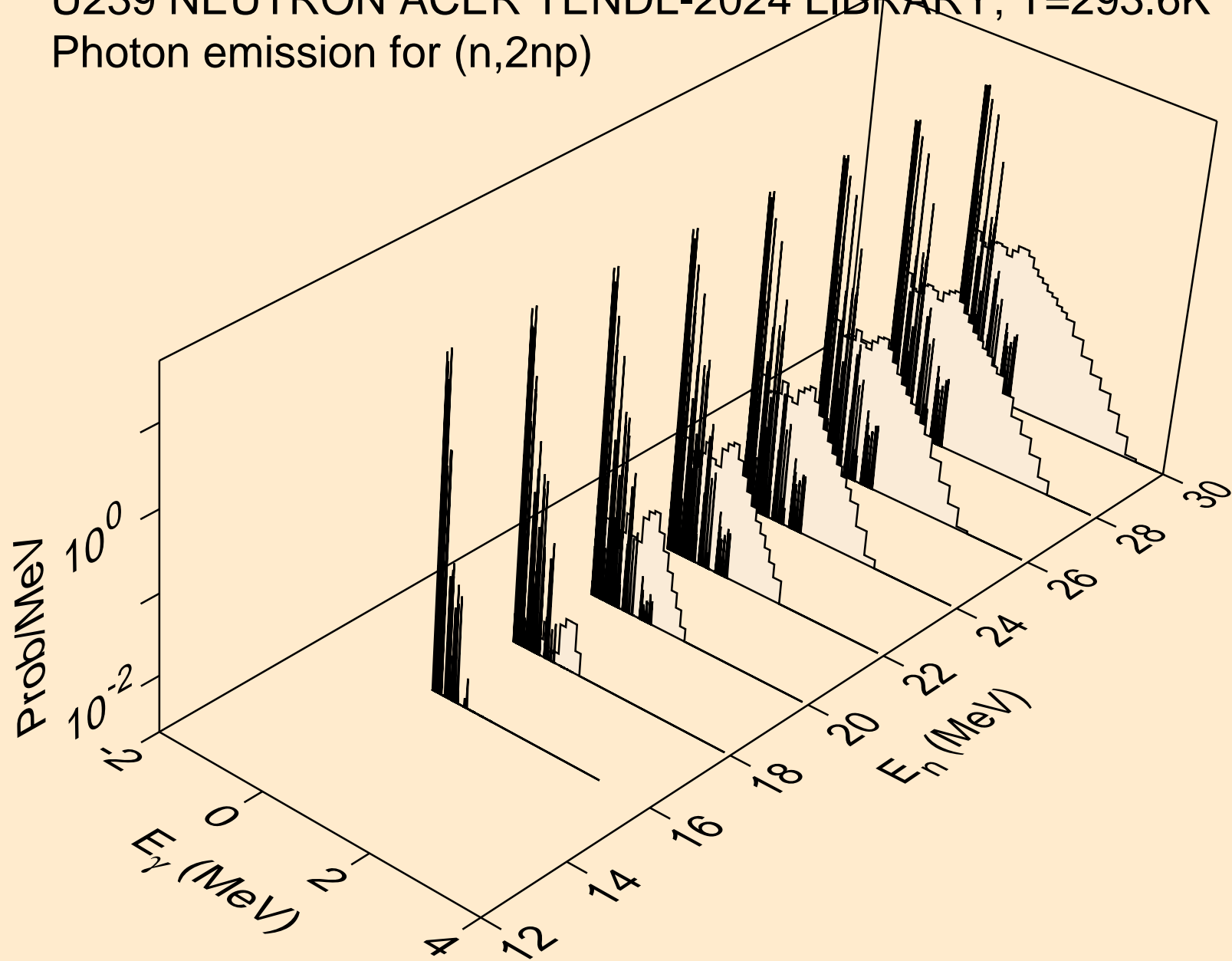
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Photon emission for (n,n\*)he3



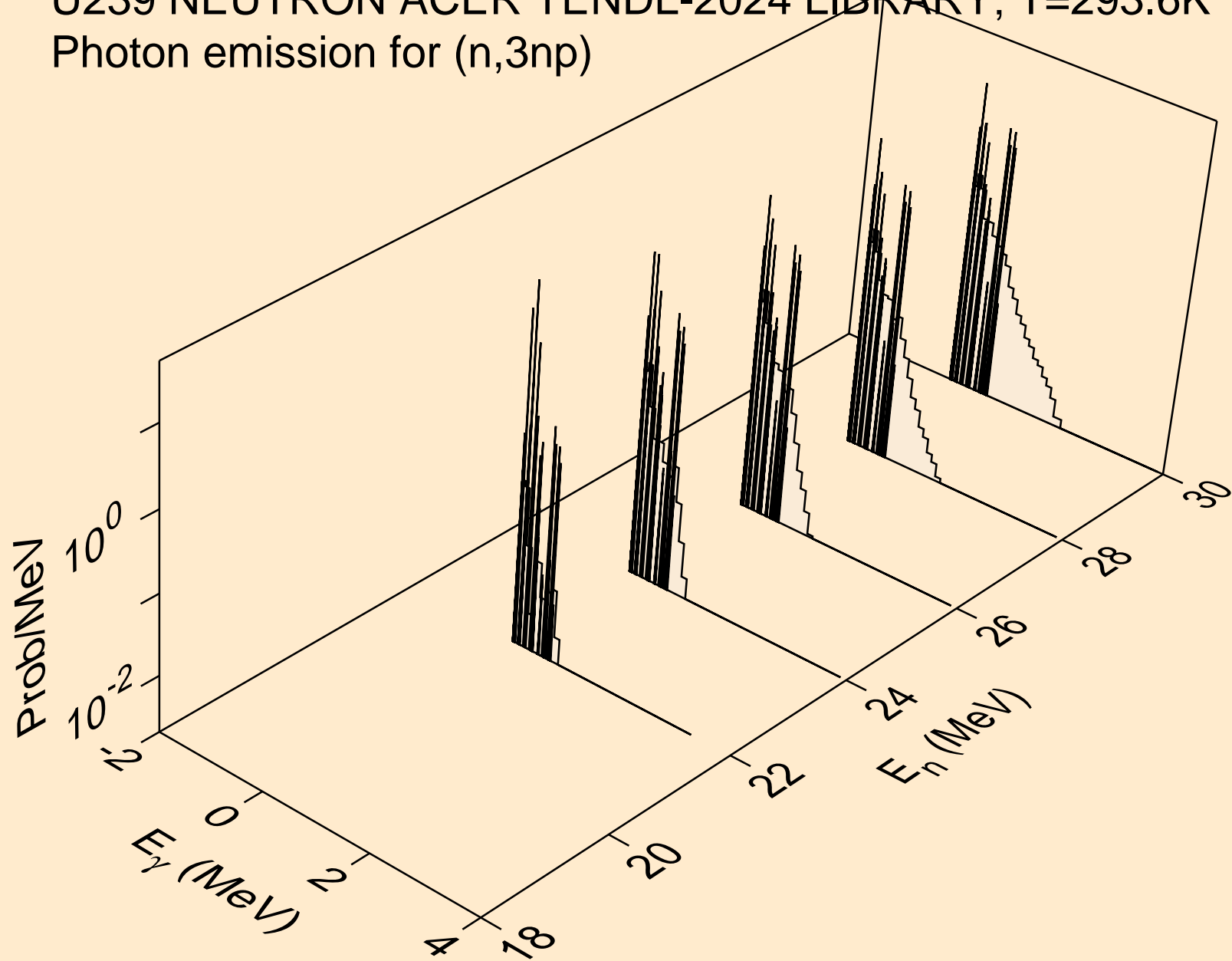
U239 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Photon emission for (n,4n)



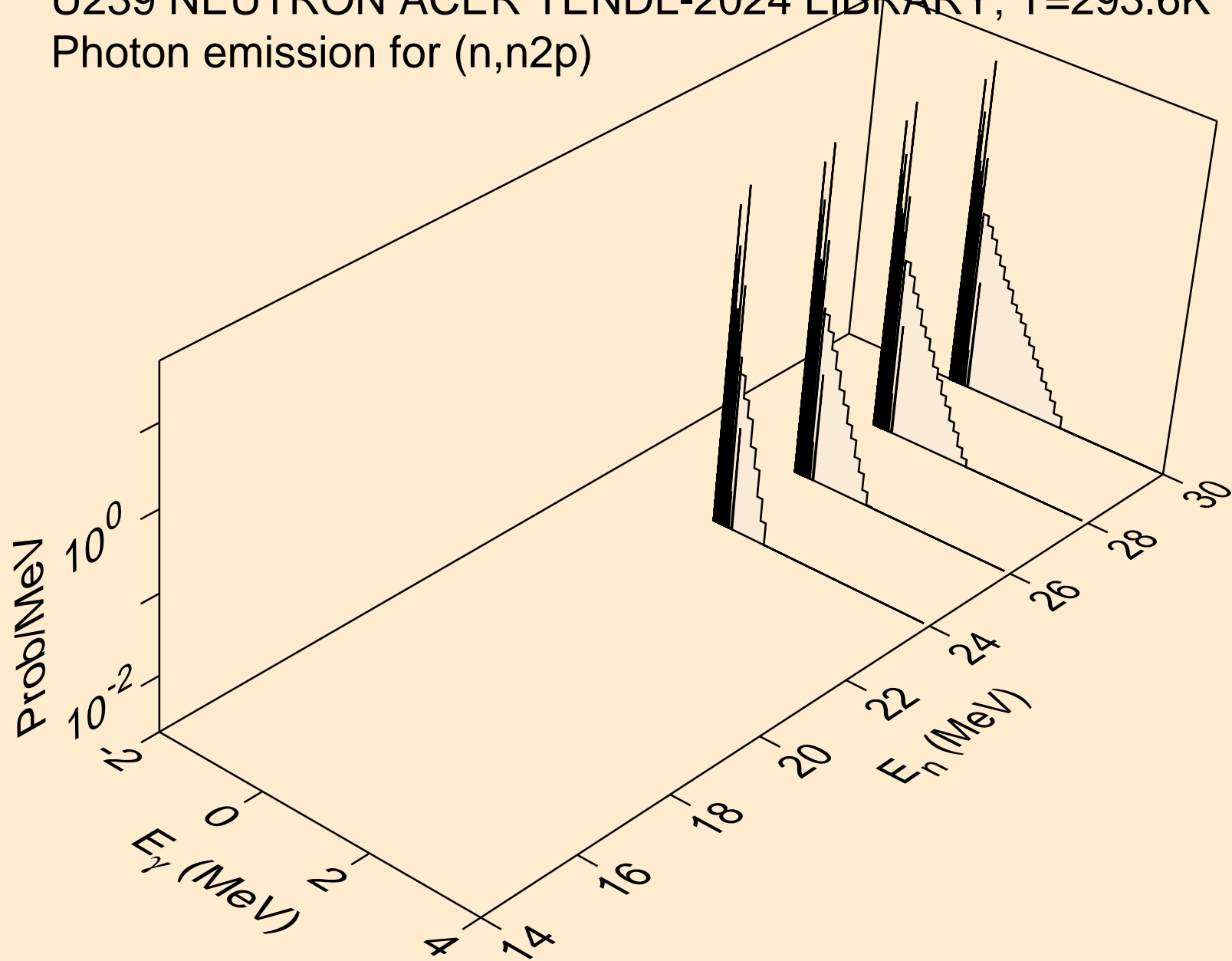
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Photon emission for (n,2np)



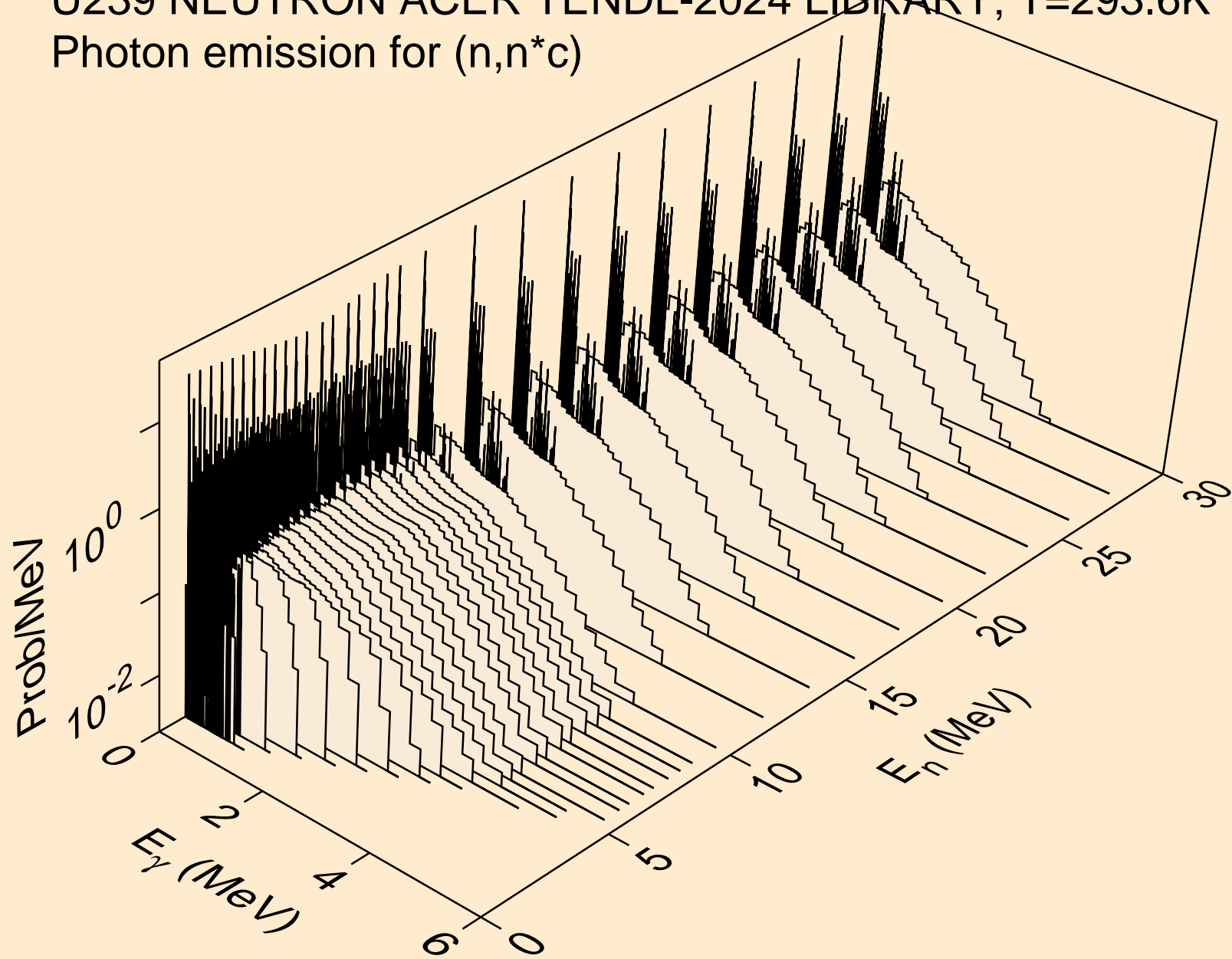
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Photon emission for (n,3np)



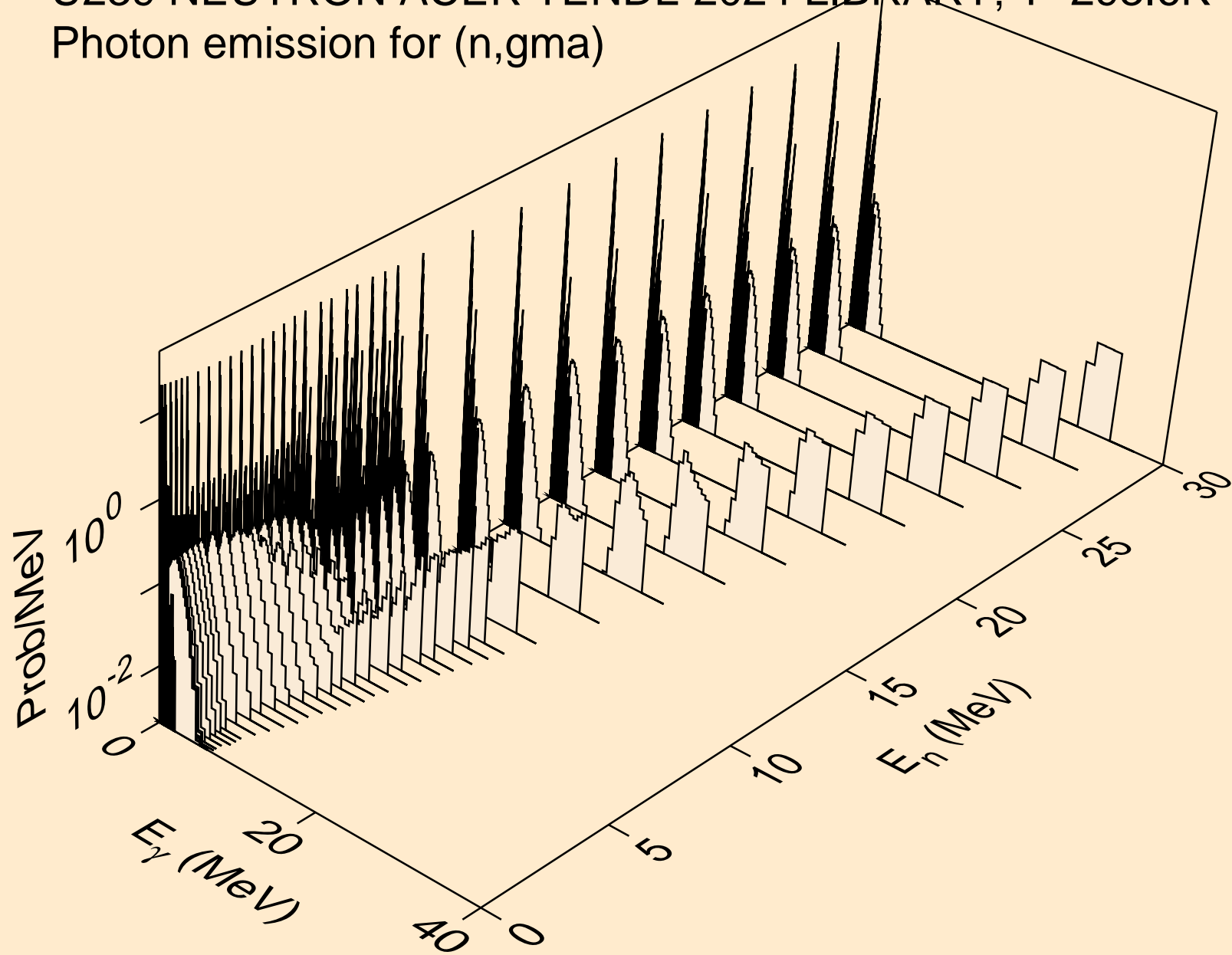
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Photon emission for (n,n2p)



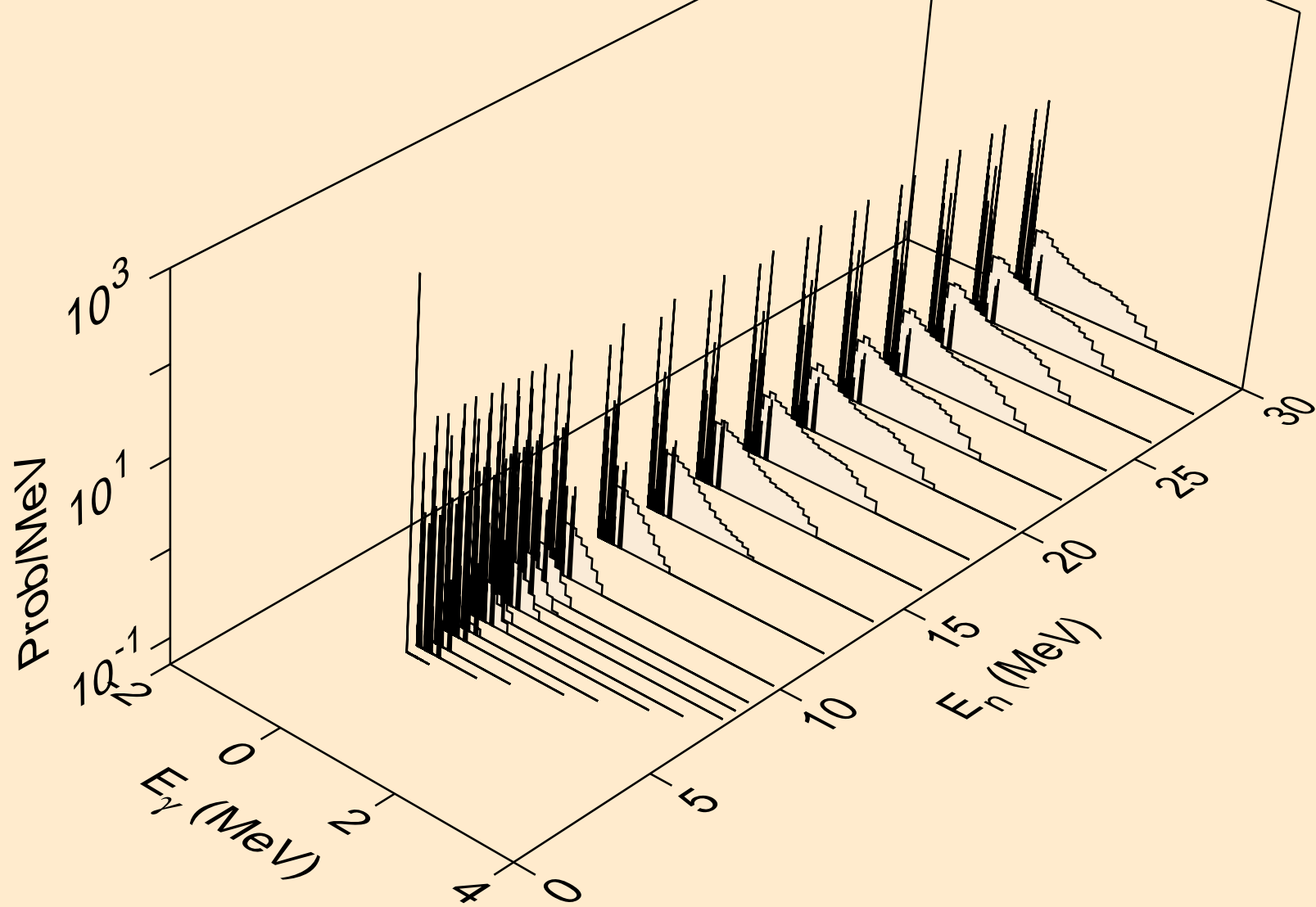
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Photon emission for (n,n\*c)



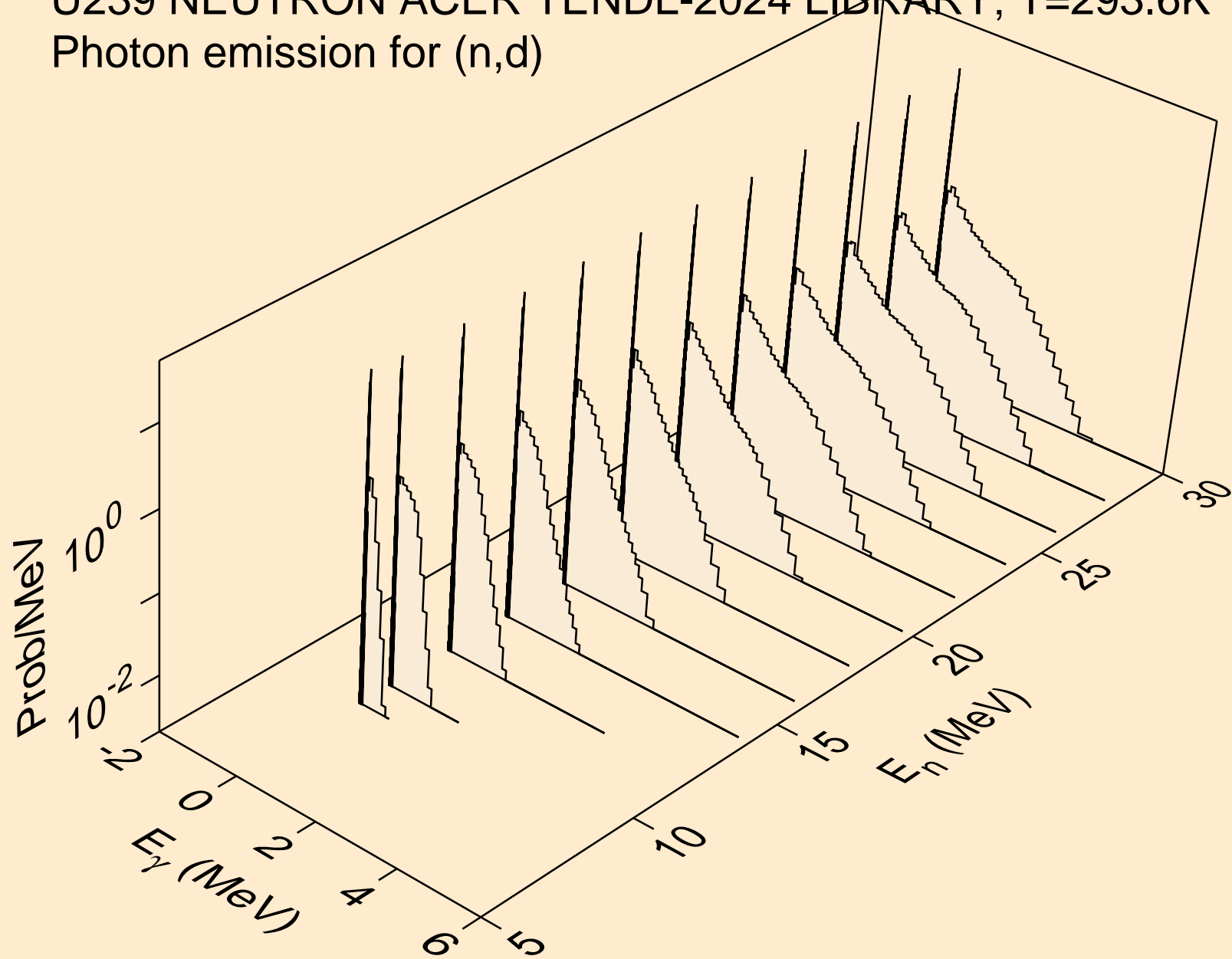
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Photon emission for (n,gma)



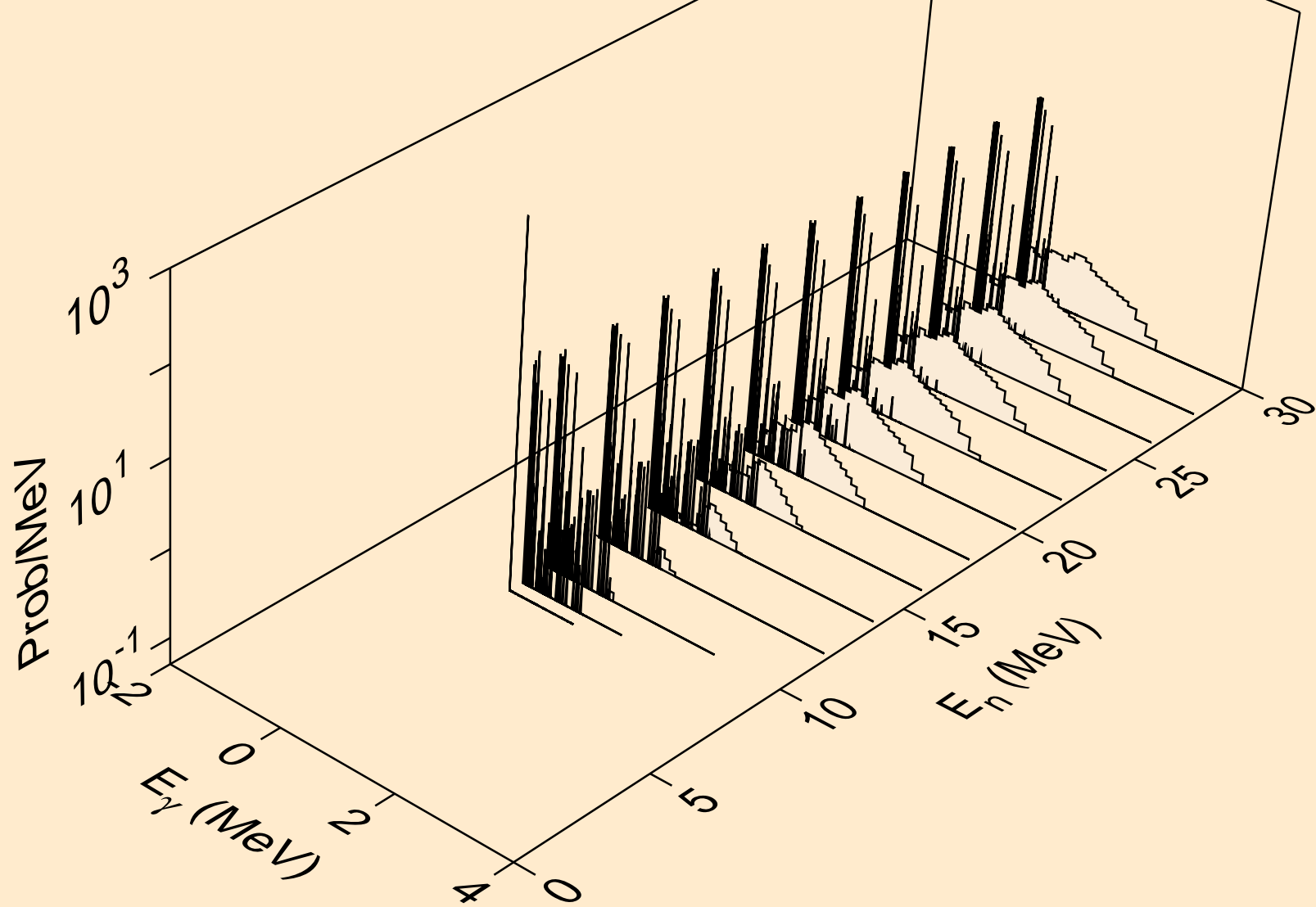
U239 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Photon emission for (n,p)



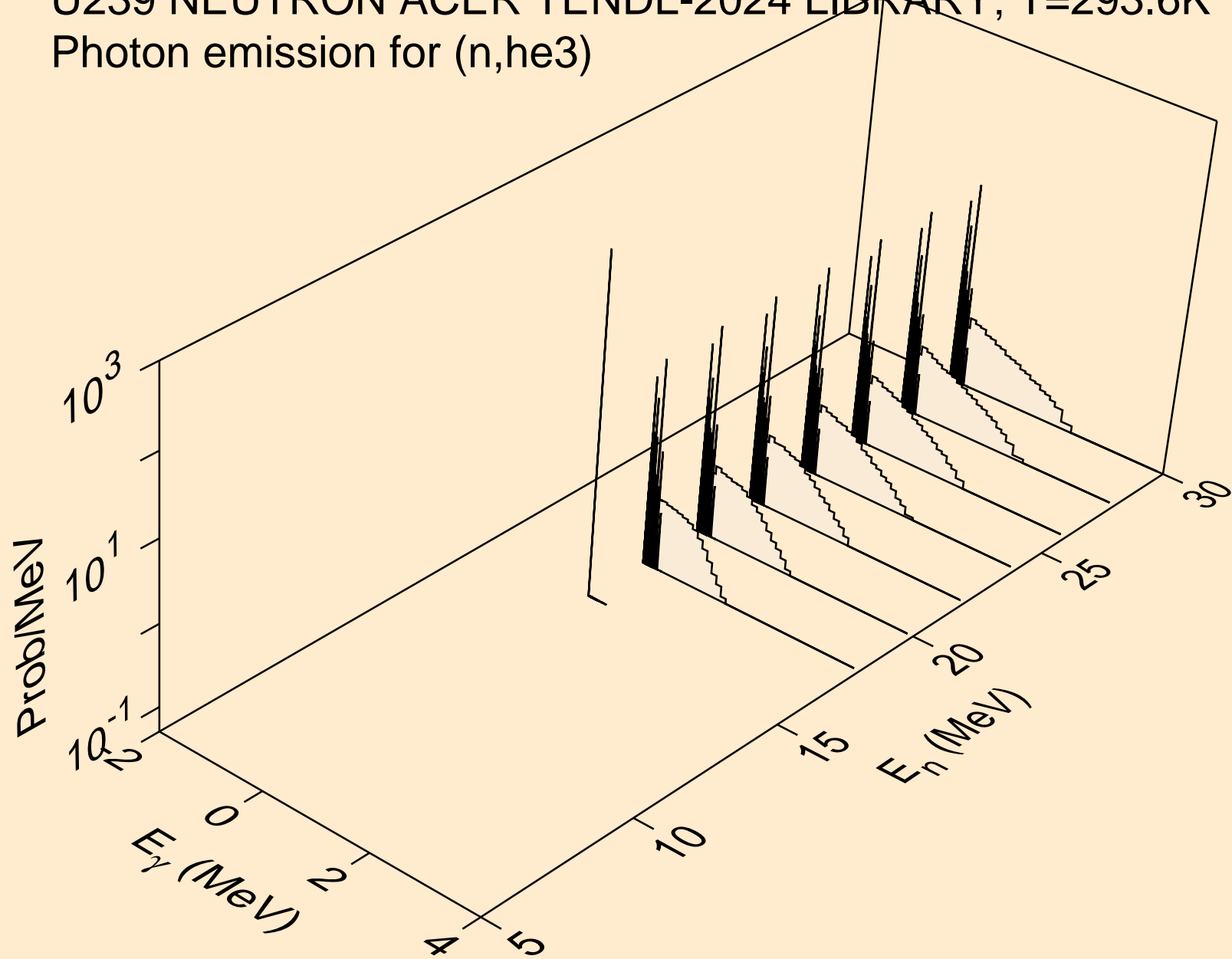
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Photon emission for (n,d)



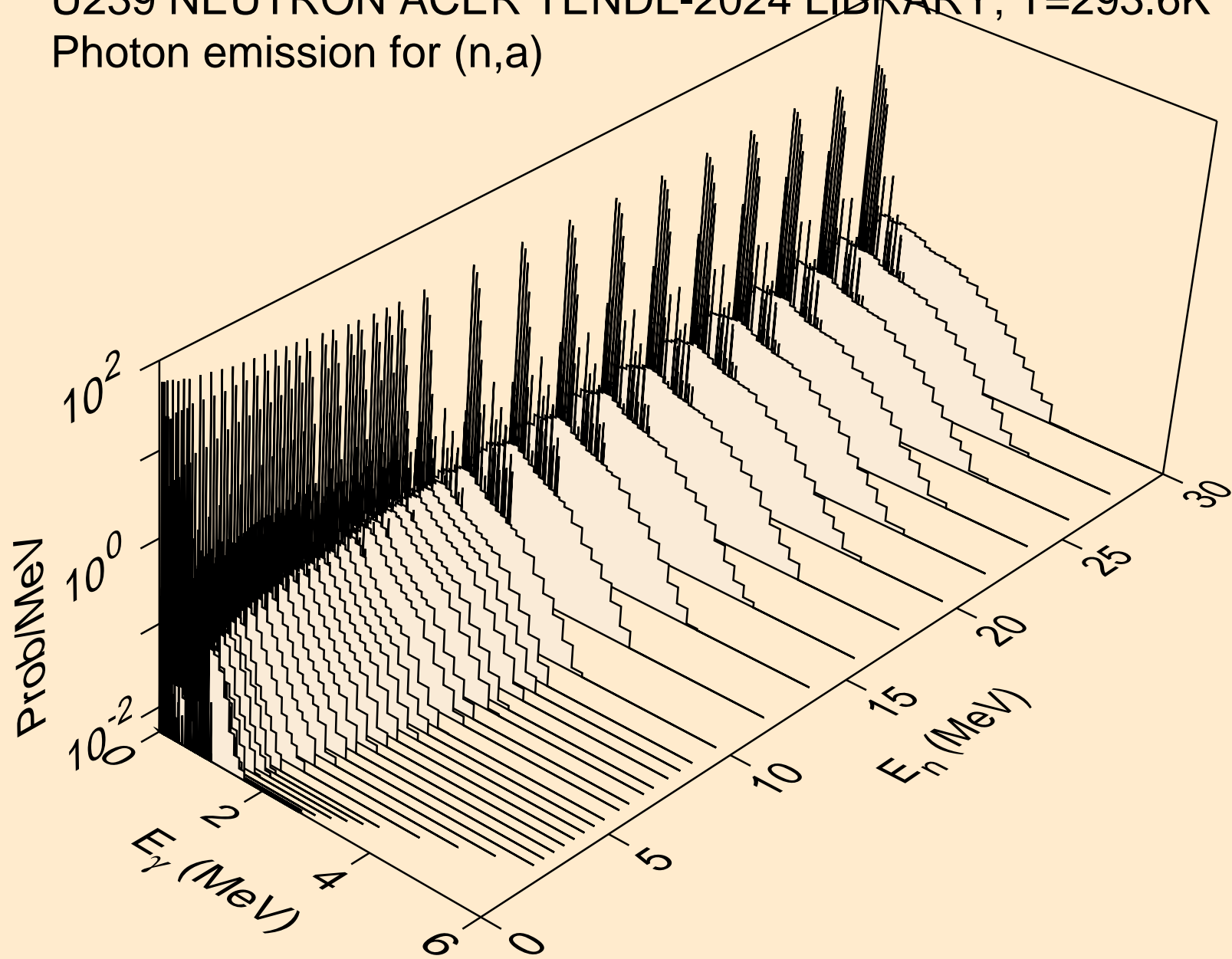
U239 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Photon emission for (n,t)



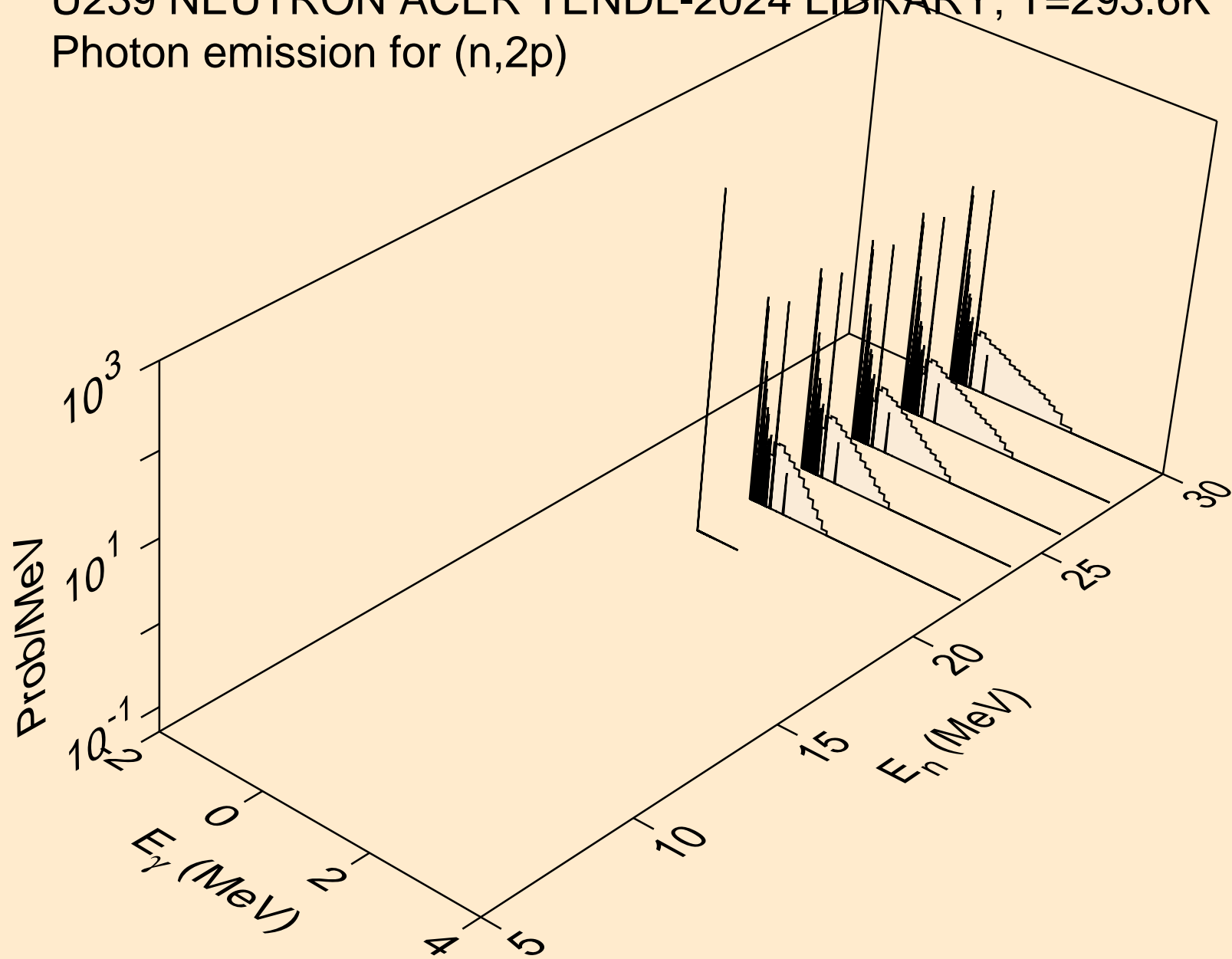
U239 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Photon emission for (n,he3)



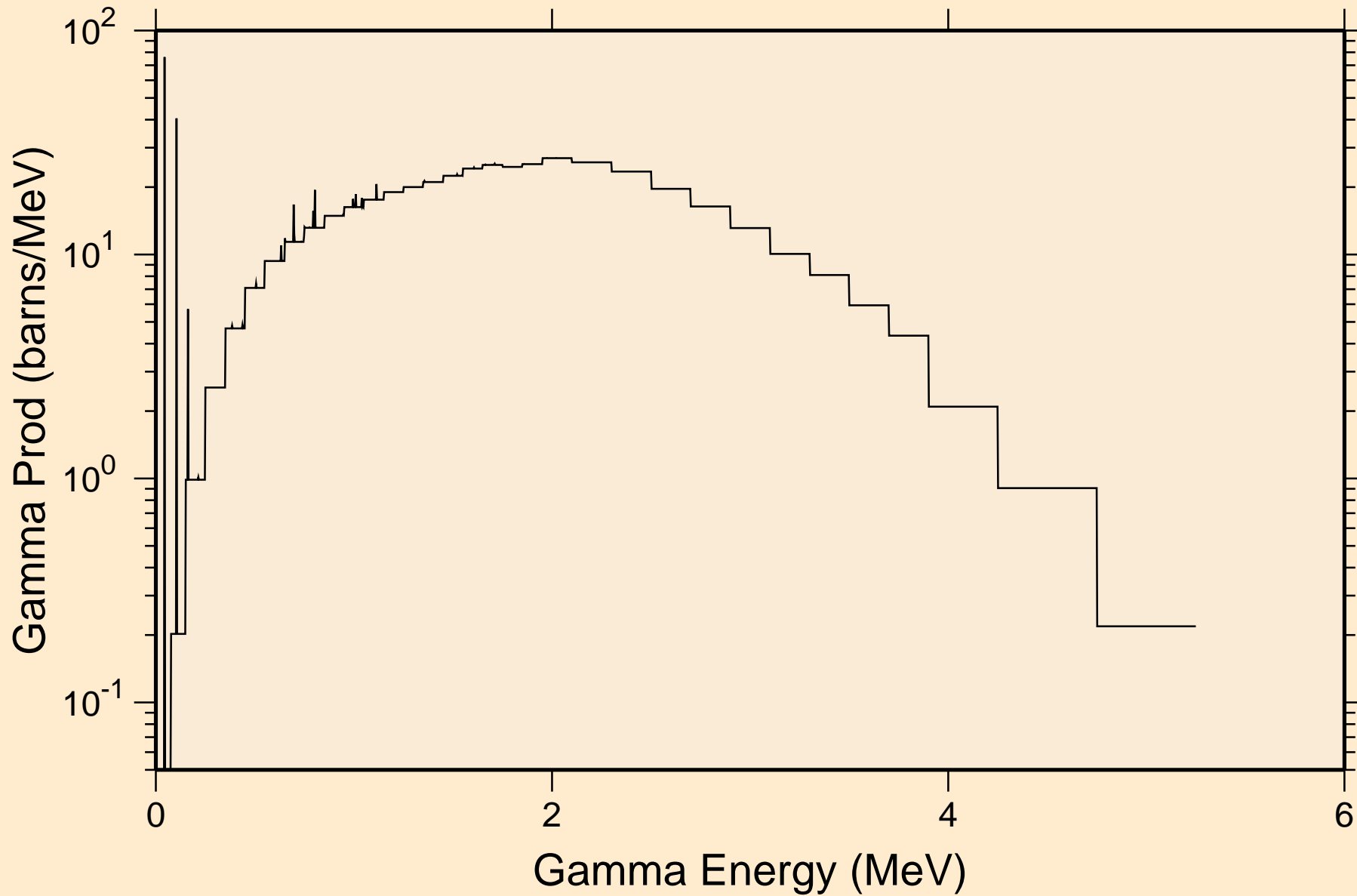
U239 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Photon emission for (n,a)



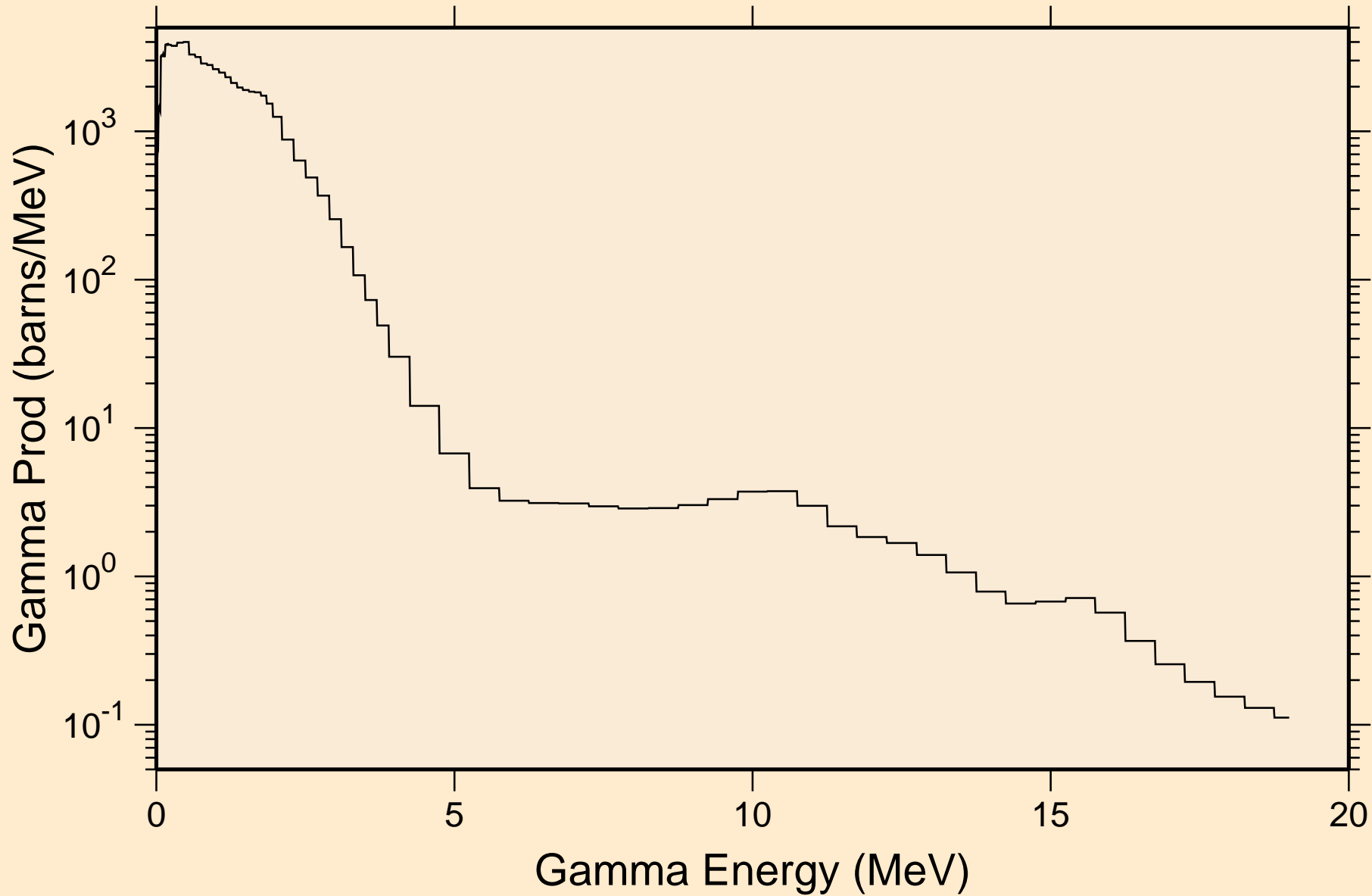
U239 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Photon emission for (n,2p)



U239 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
thermal capture photon spectrum

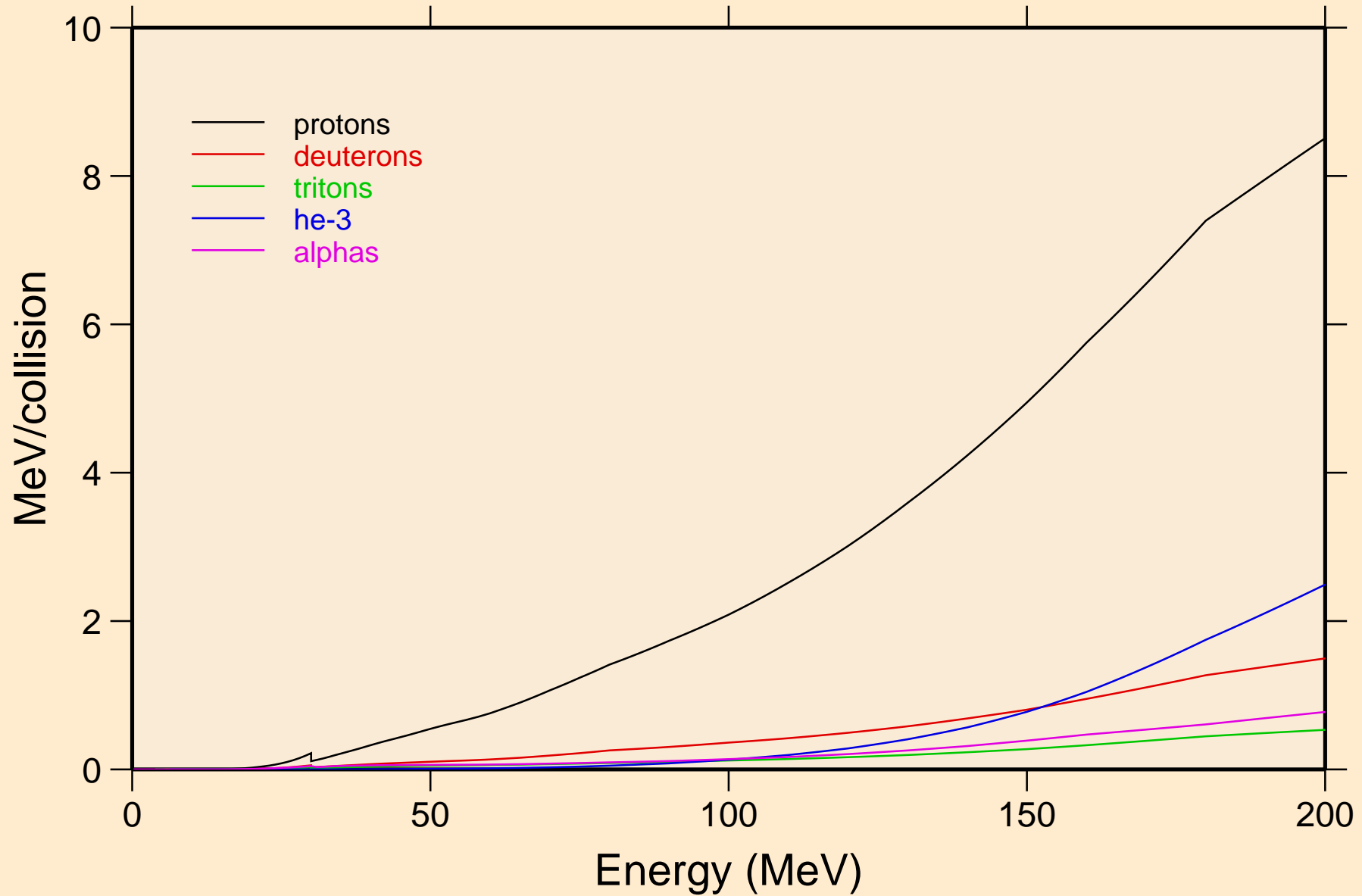


U239 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
14 MeV photon spectrum

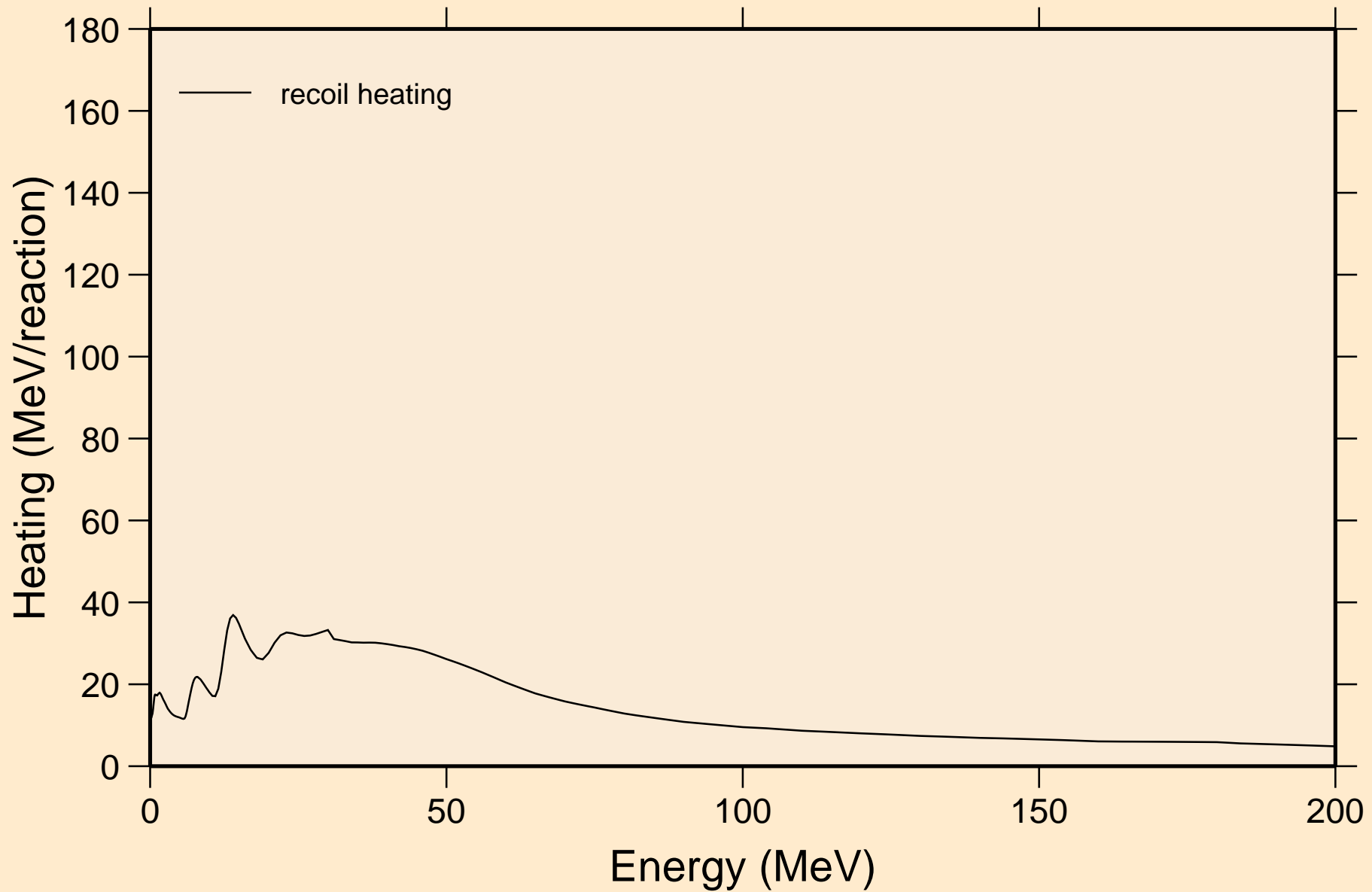


# U239 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K

## Particle heating contributions

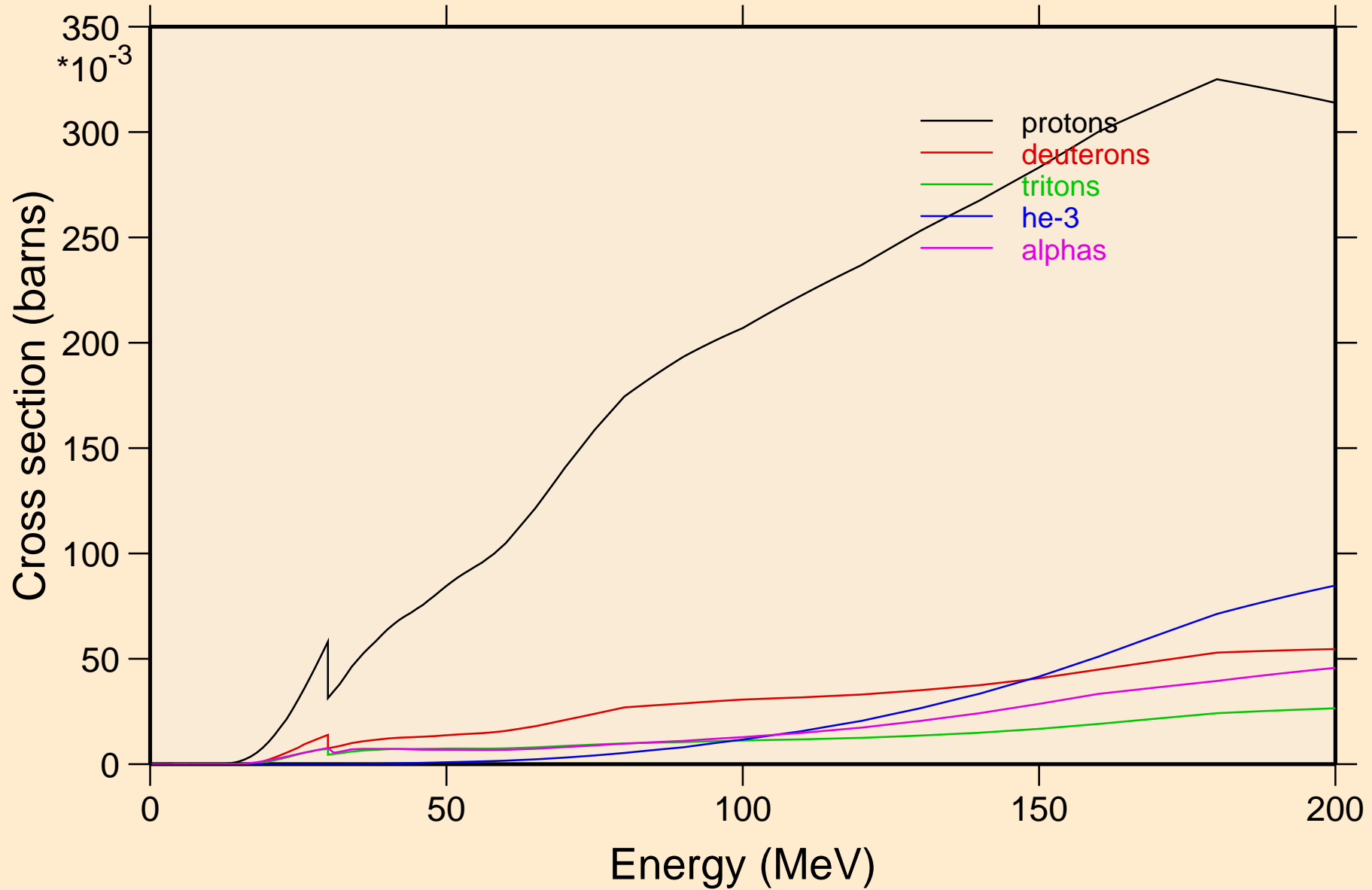


U239 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Recoil Heating

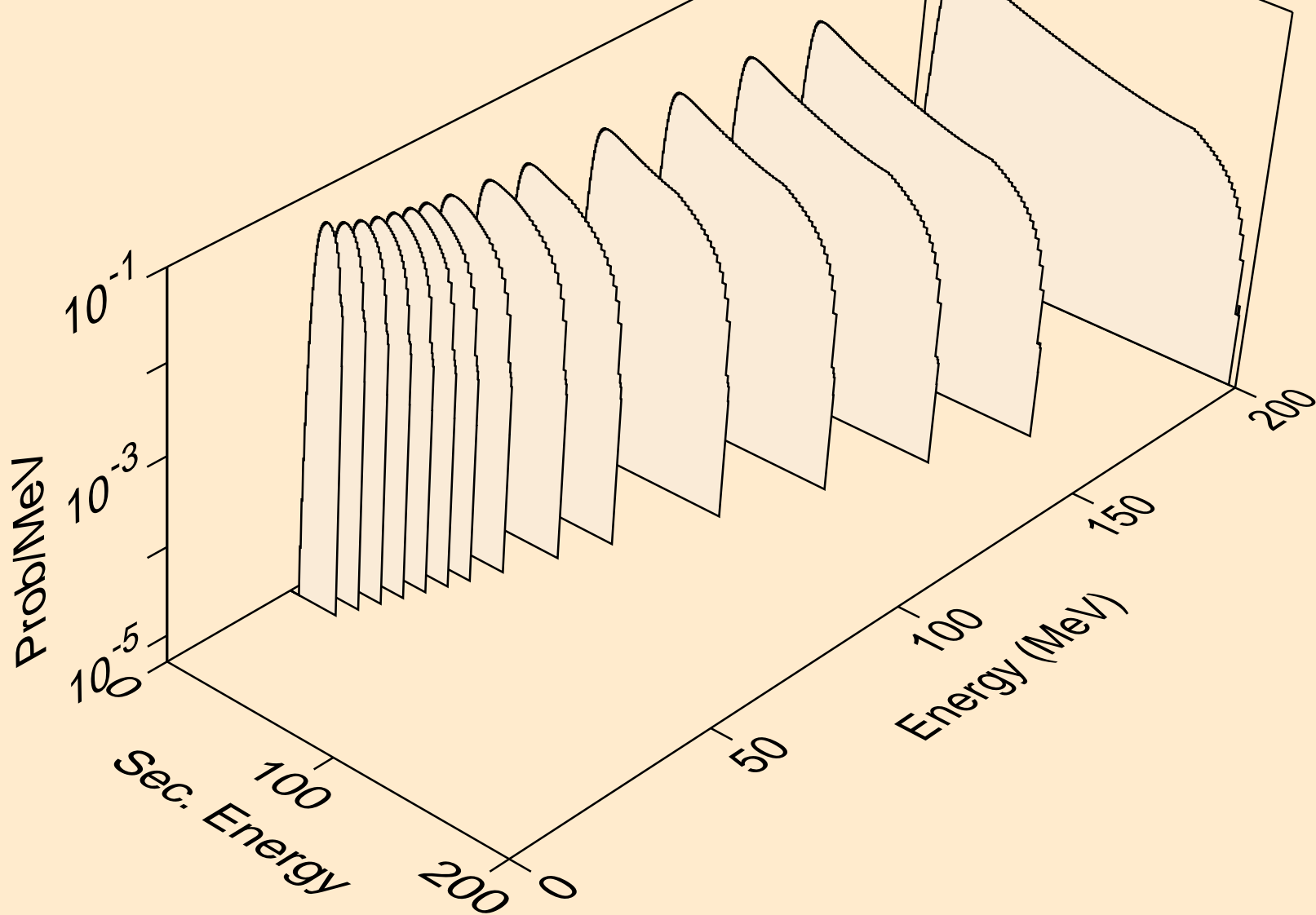


# U239 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K

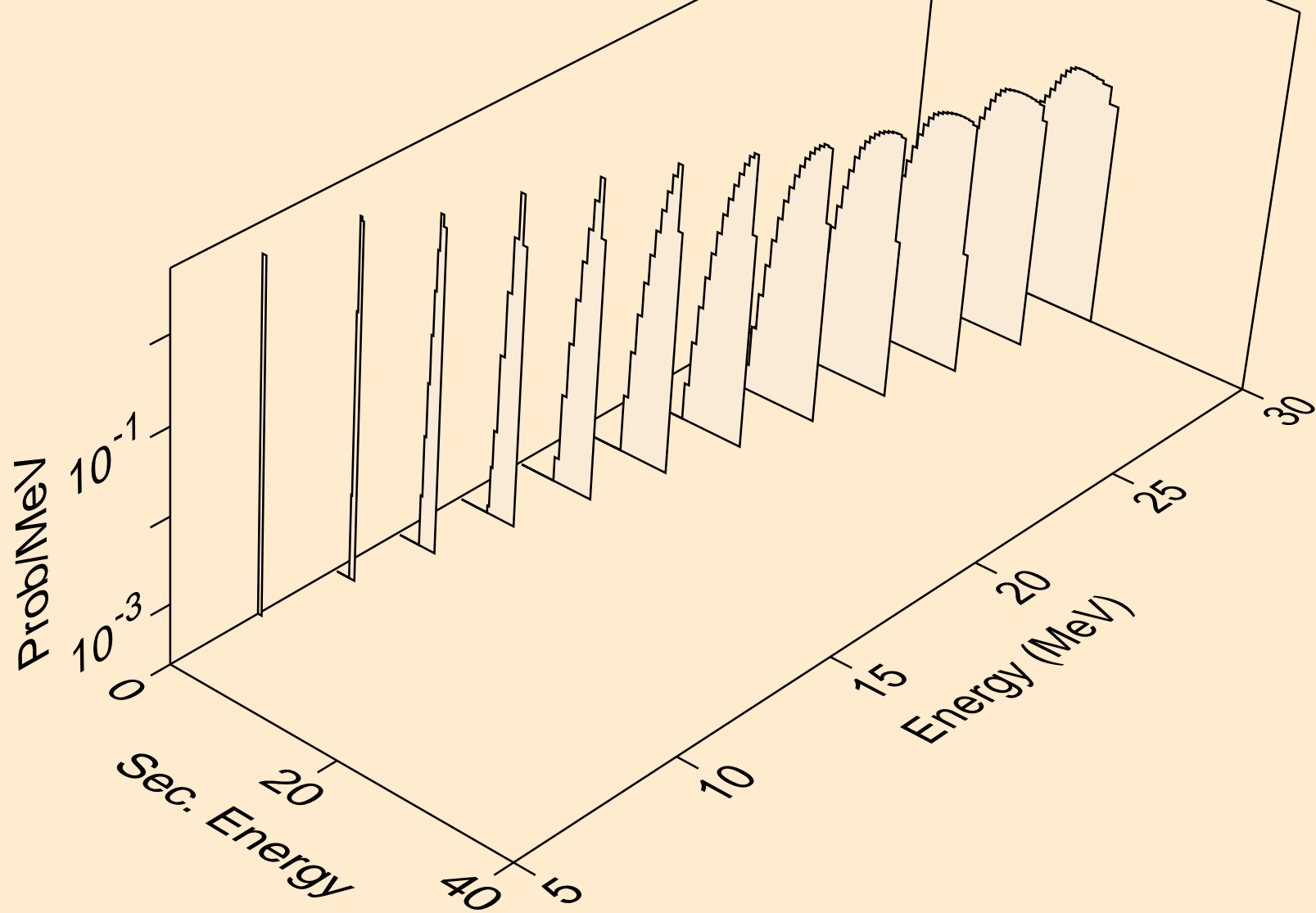
## Particle production cross sections



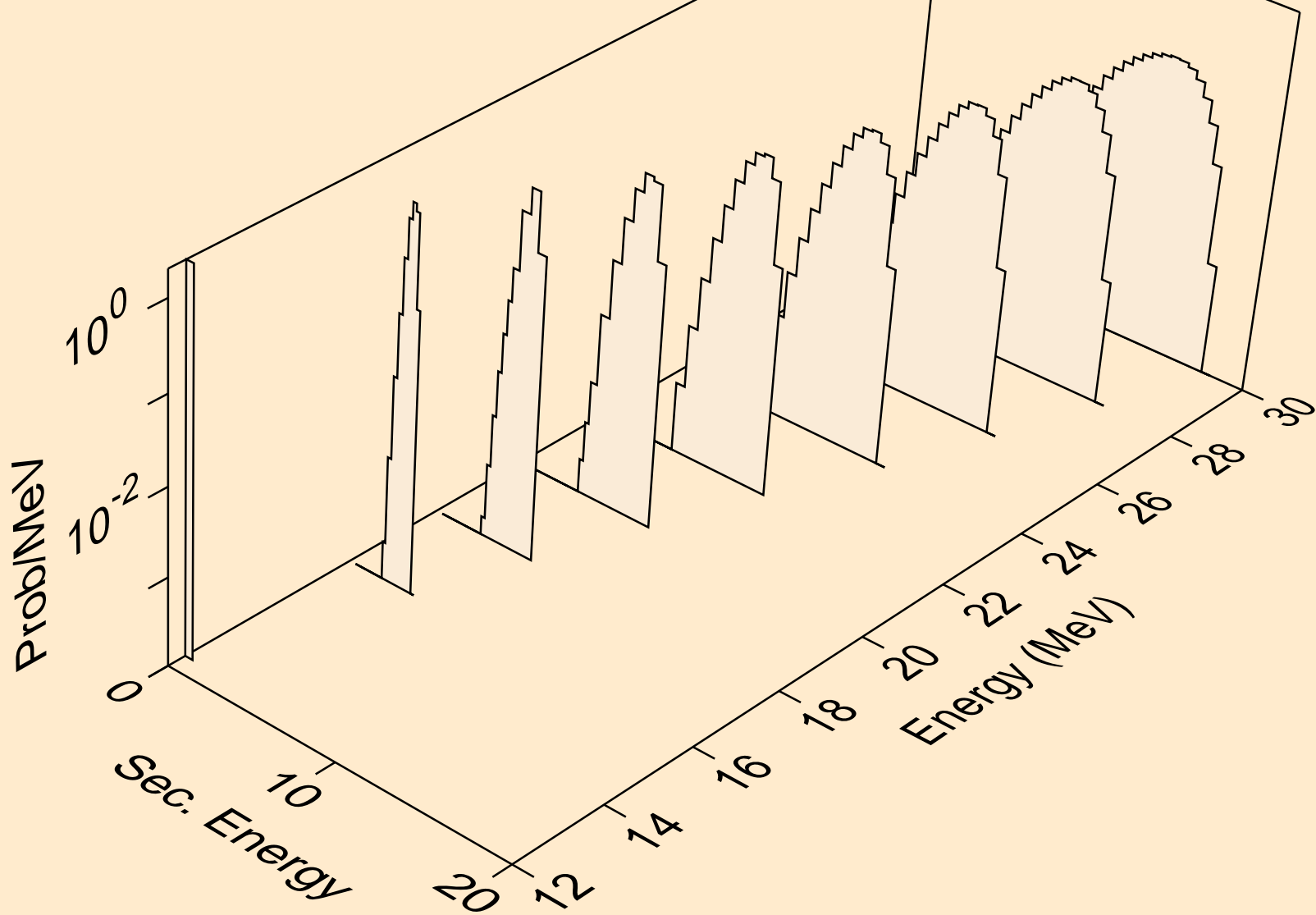
U239 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
protons from (n,x)



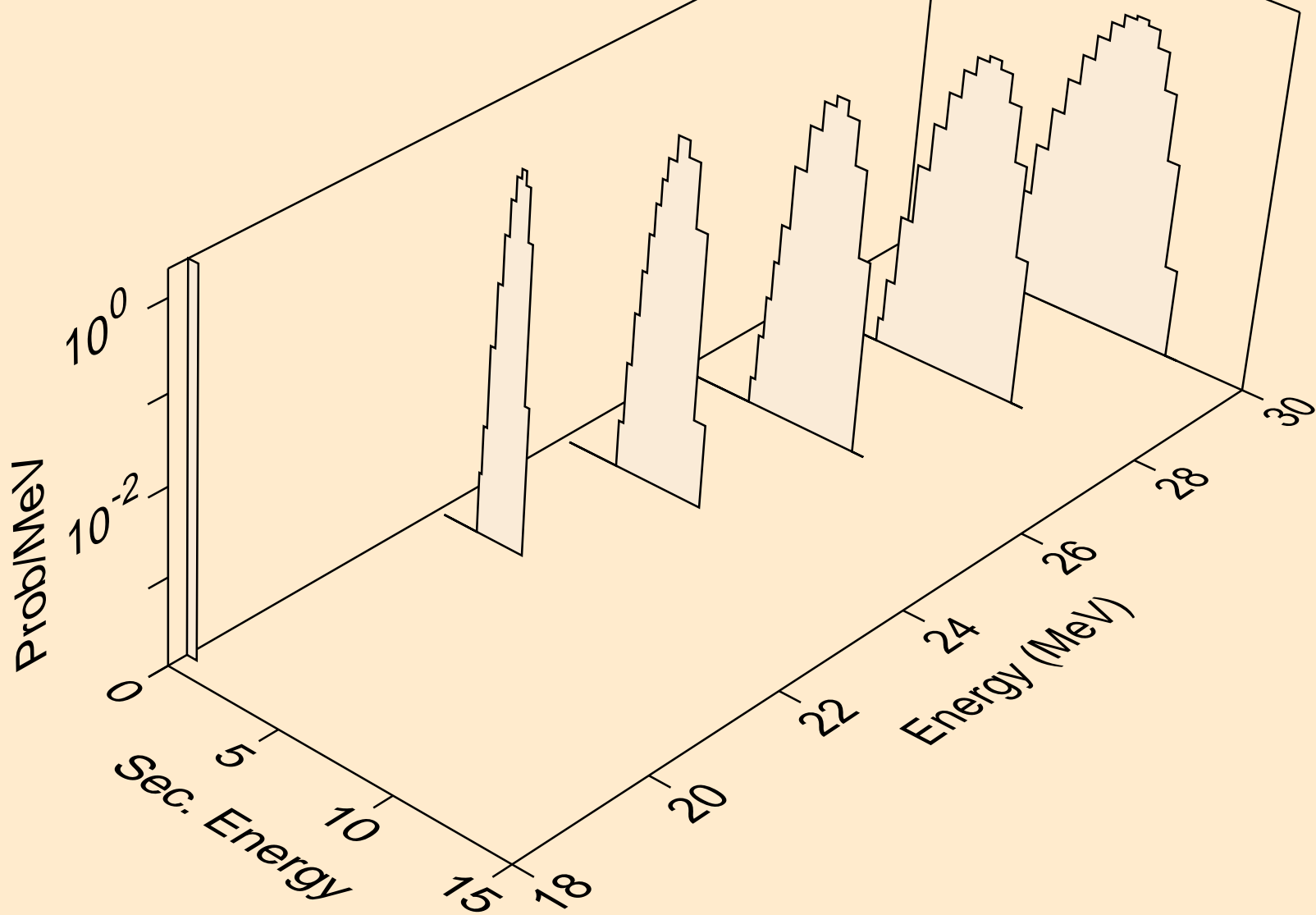
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protons from (n,n\*)p



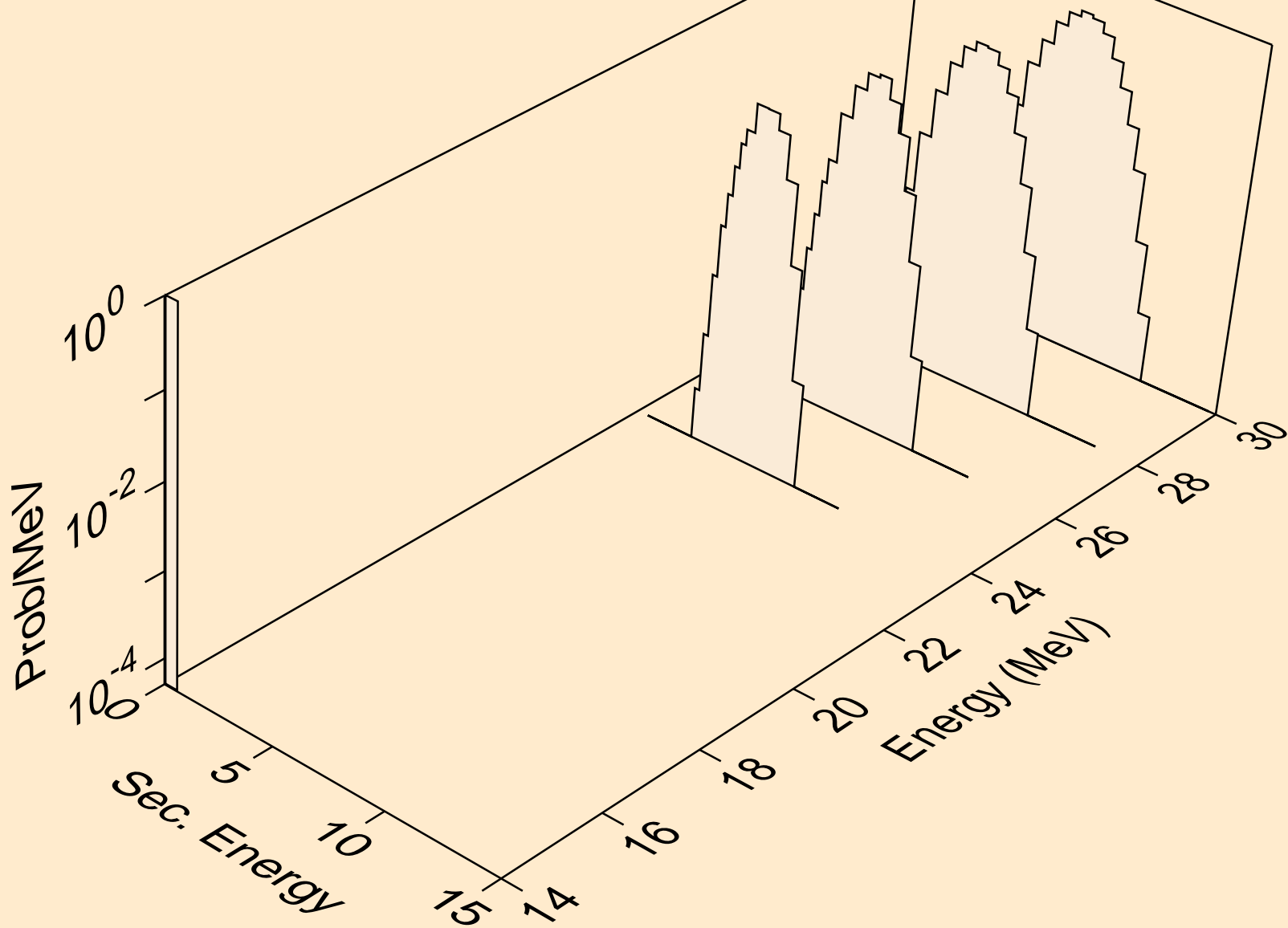
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protons from (n,2np)



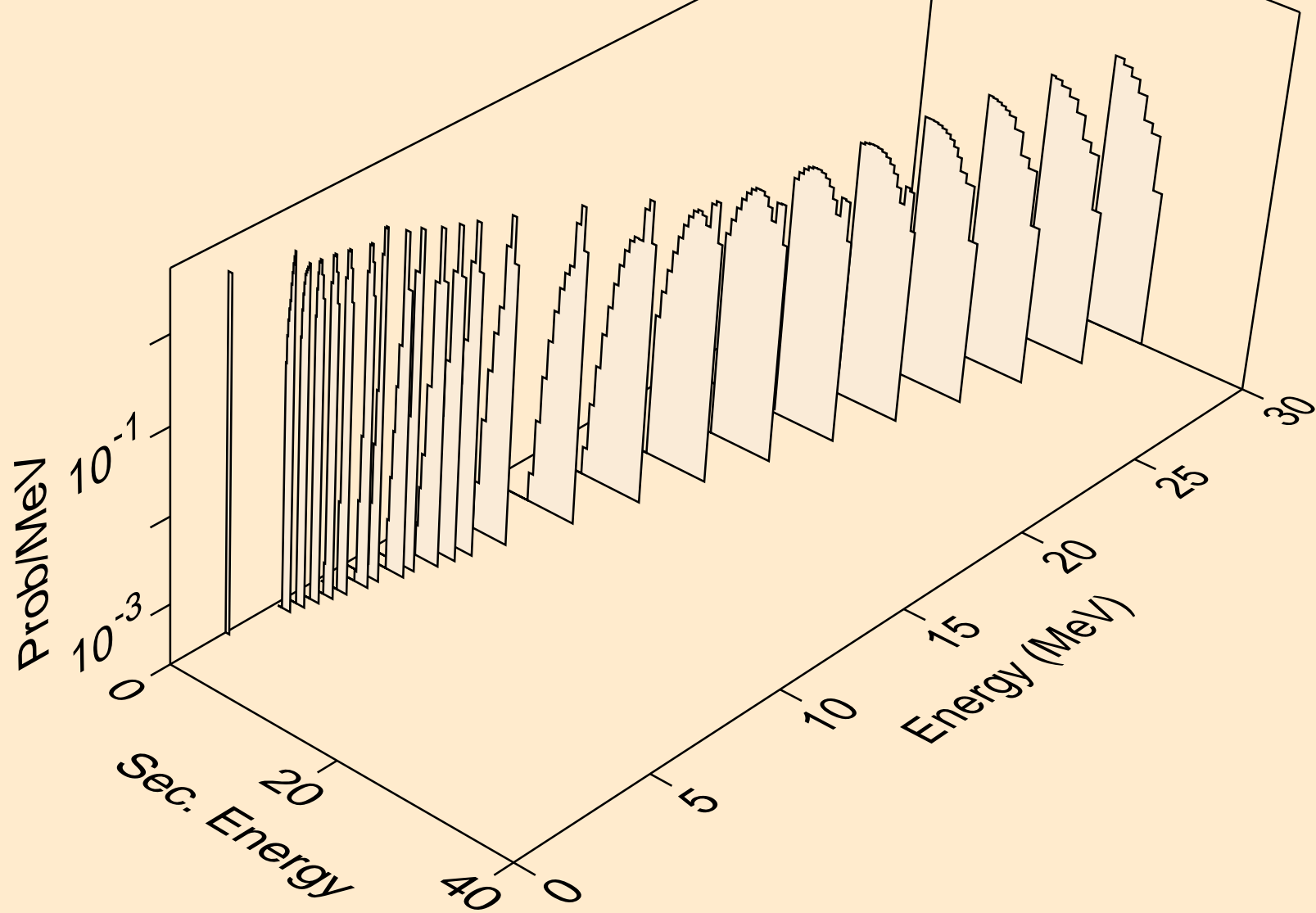
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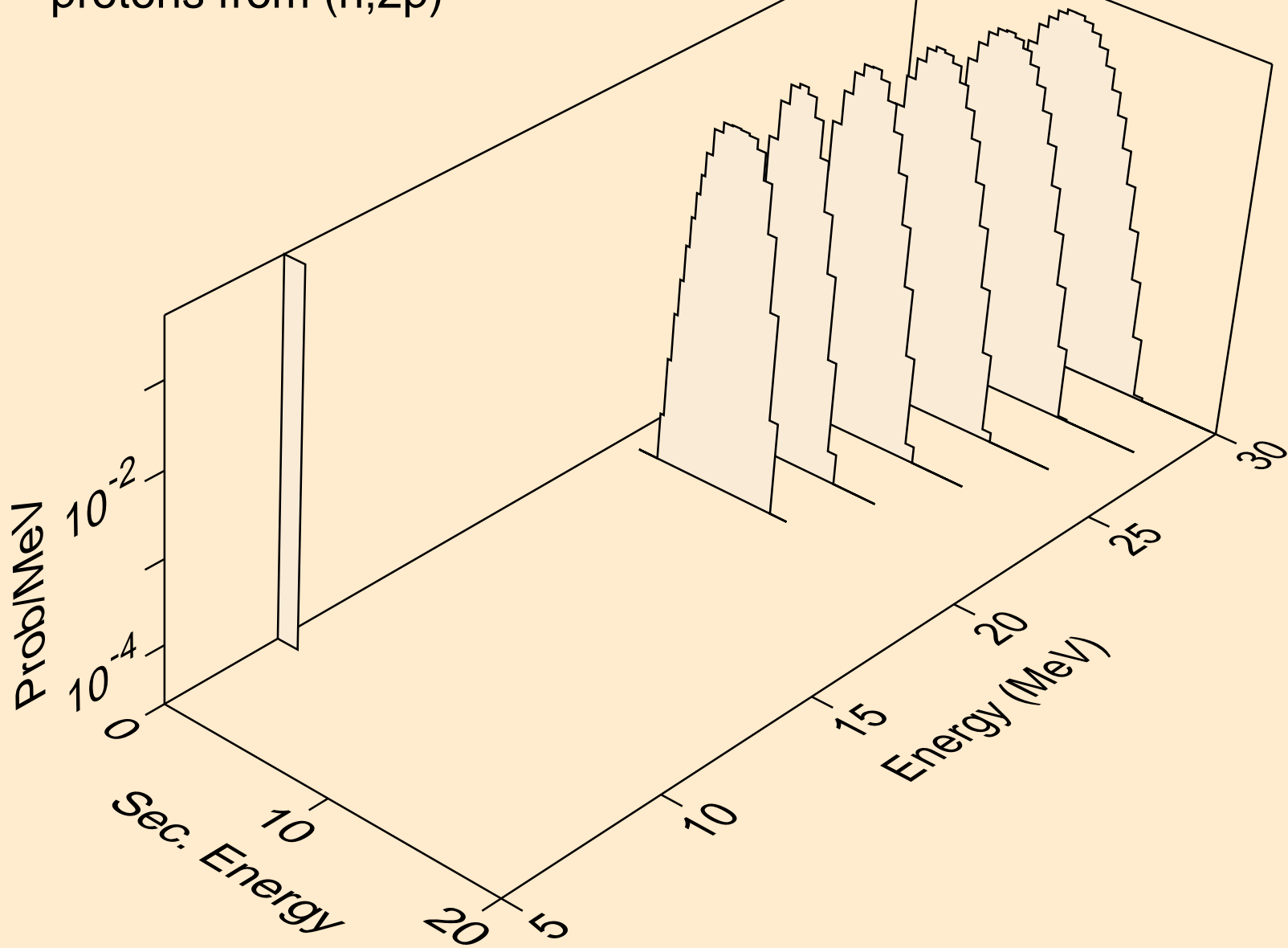
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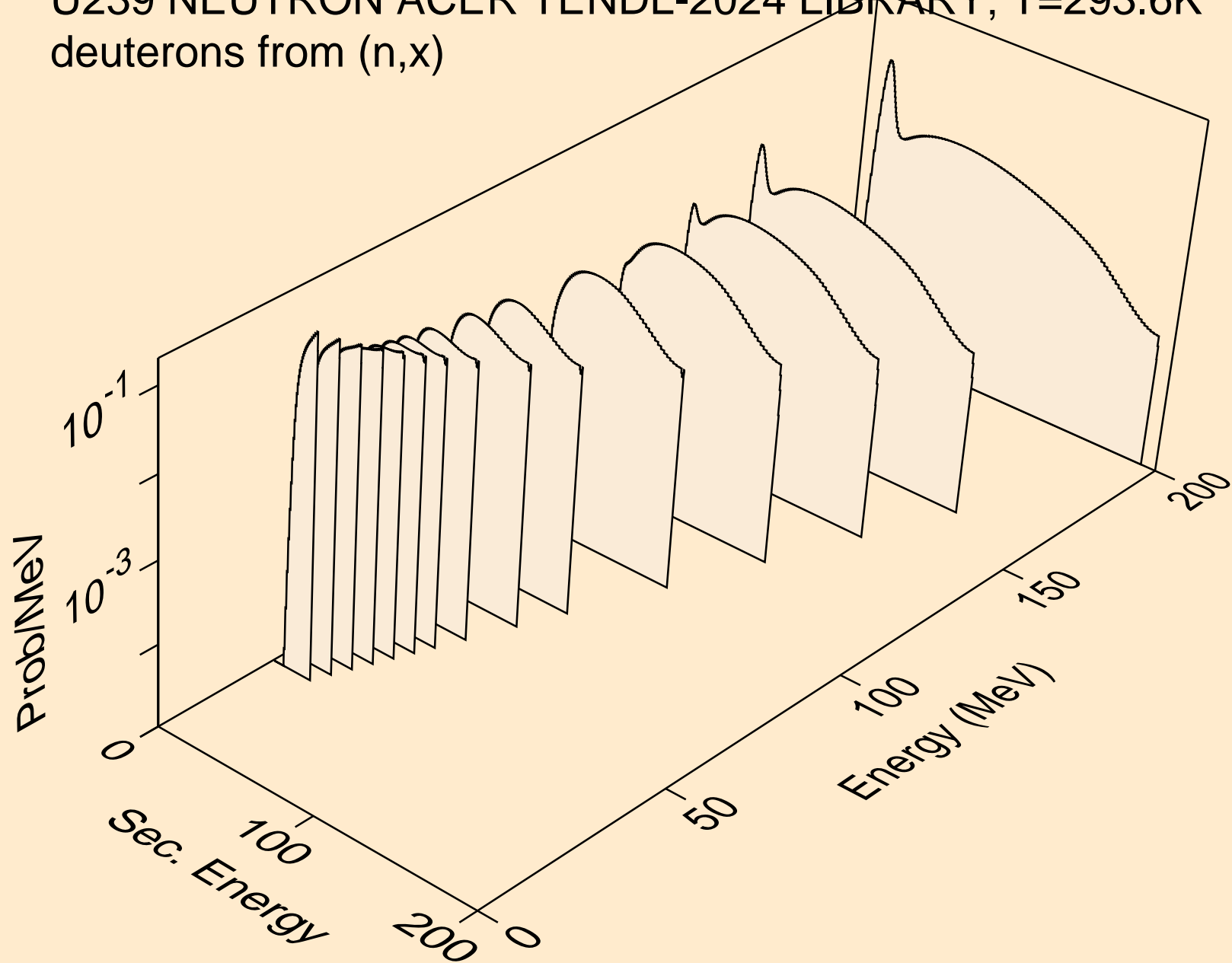
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protons from (n,p)



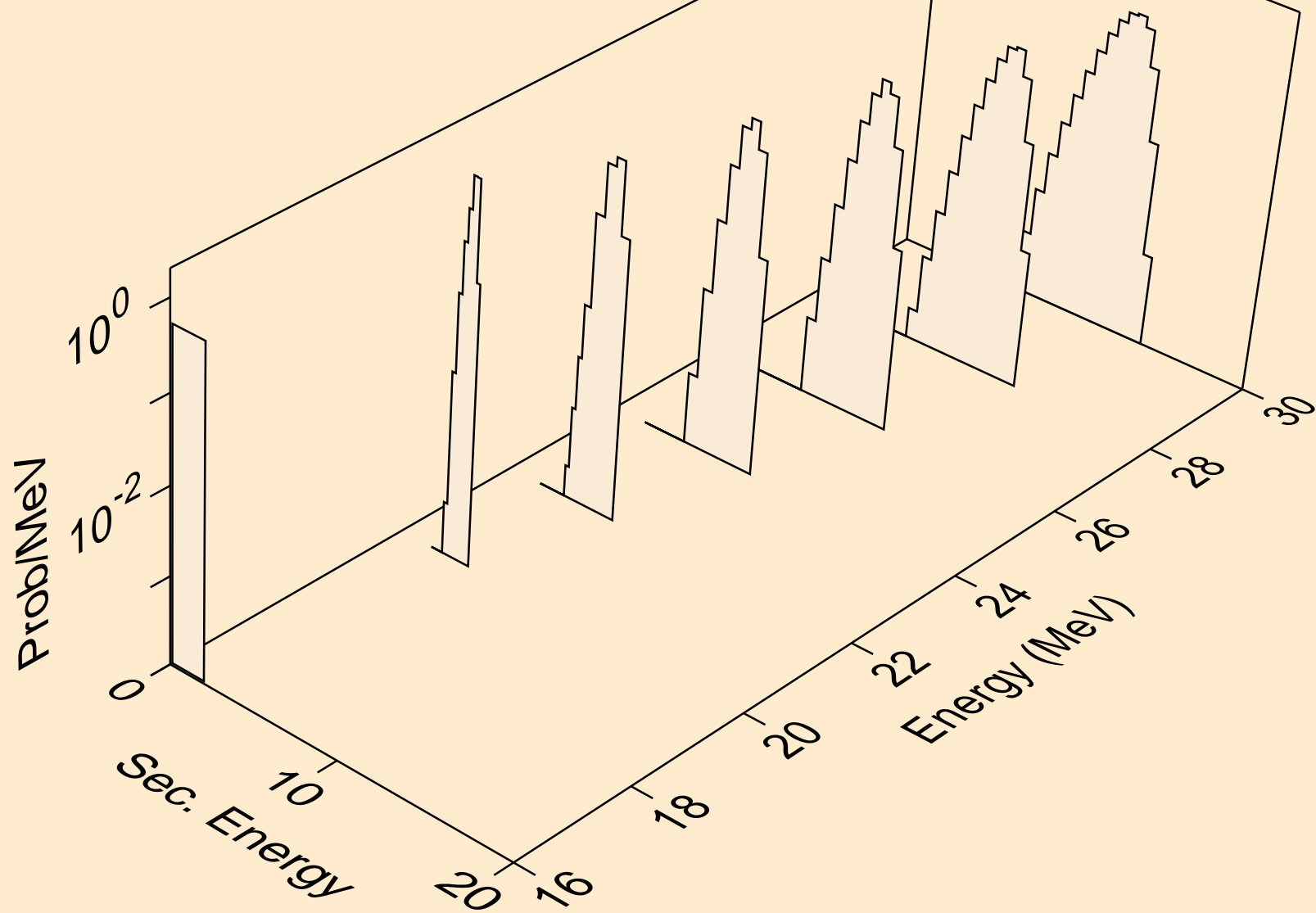
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protons from (n,2p)



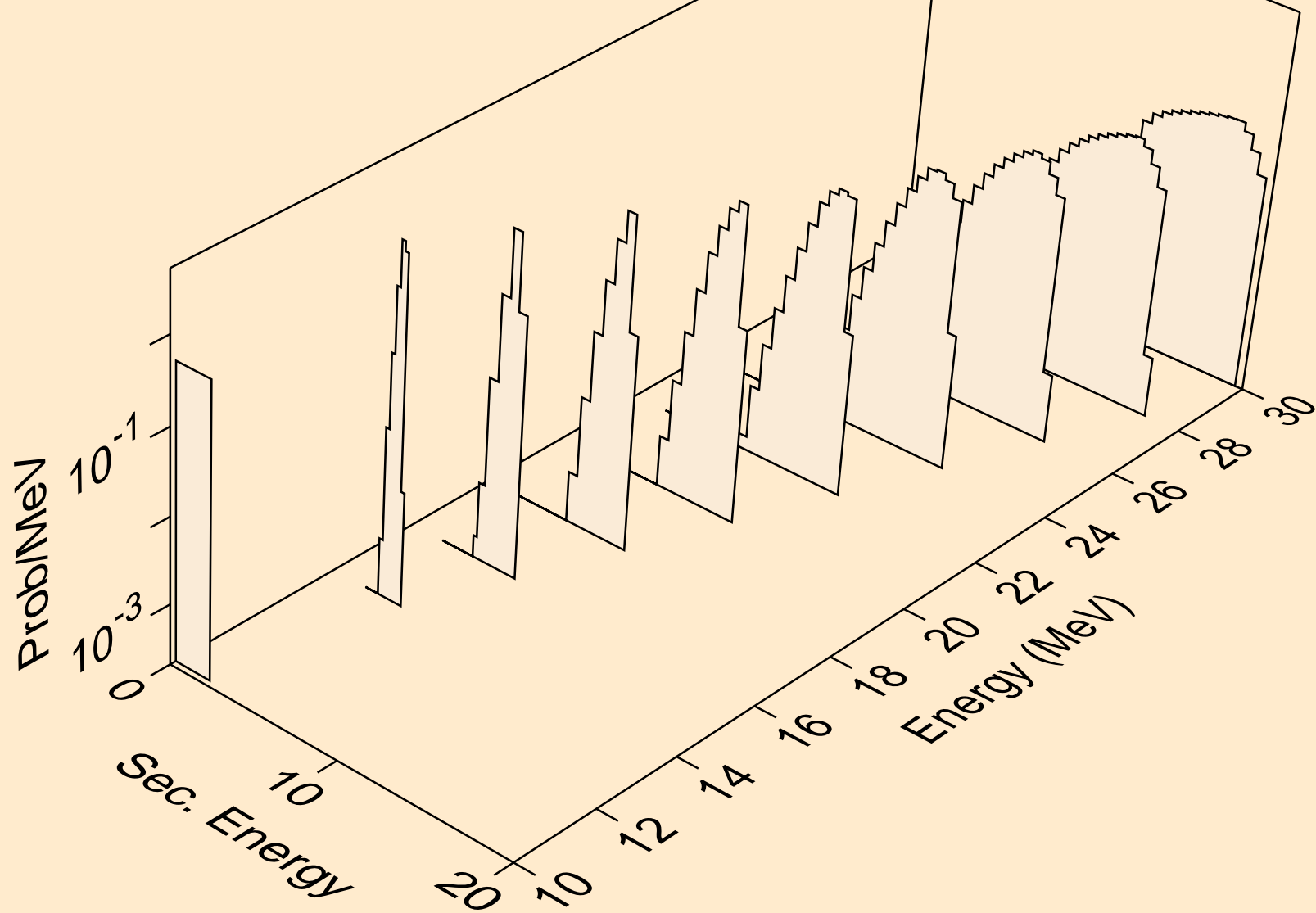
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deuterons from (n,x)



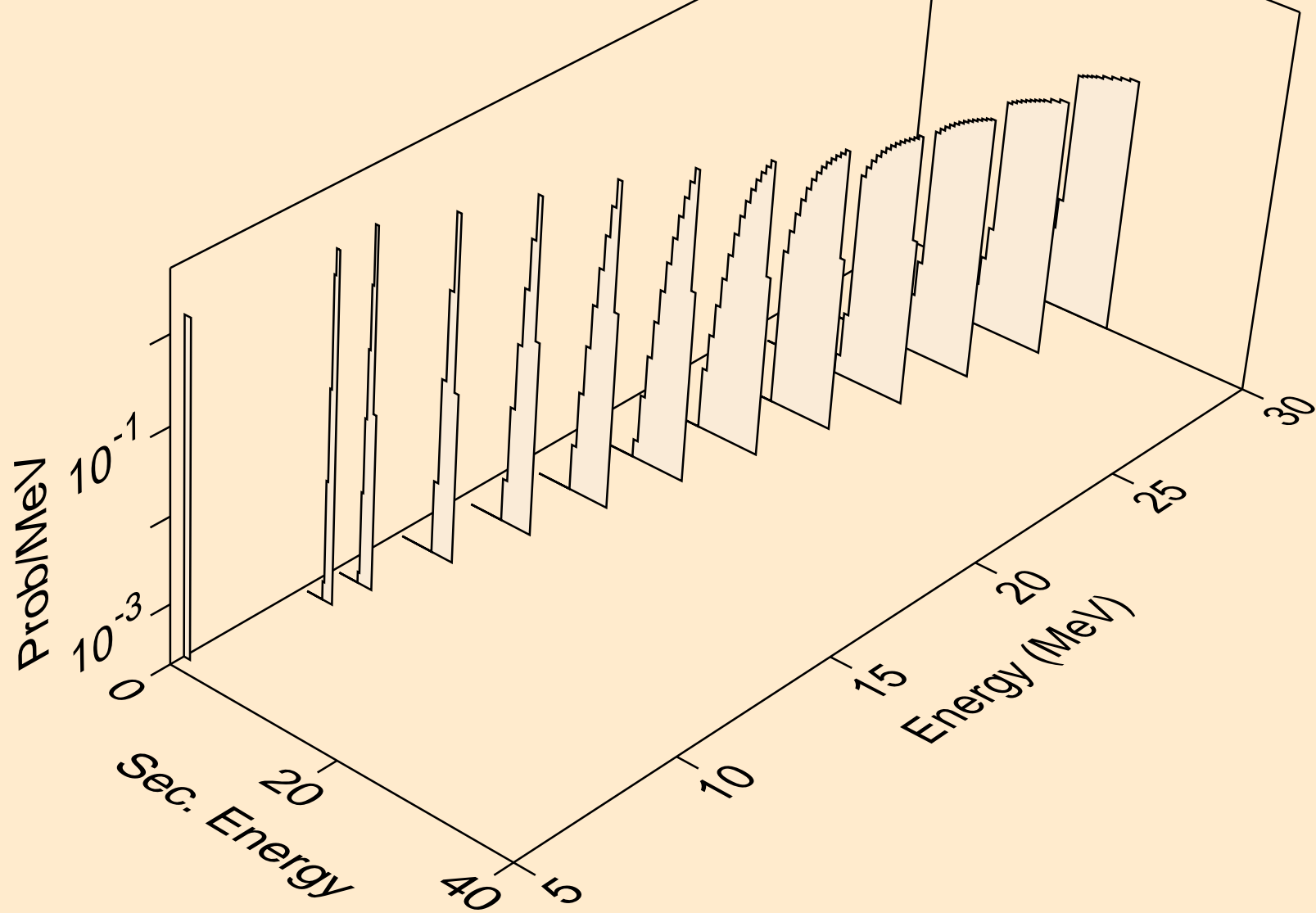
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deuterons from (n,2nd)



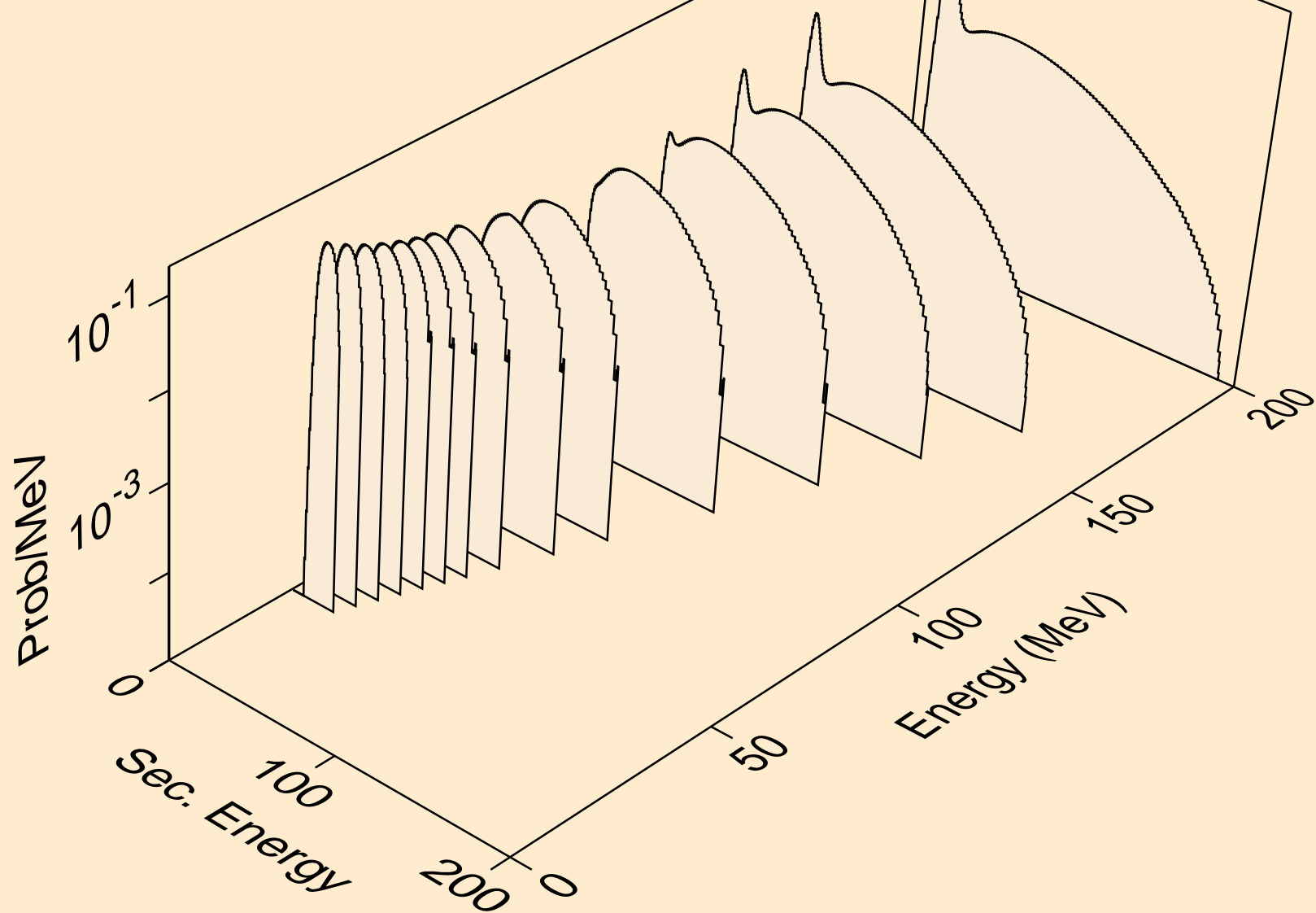
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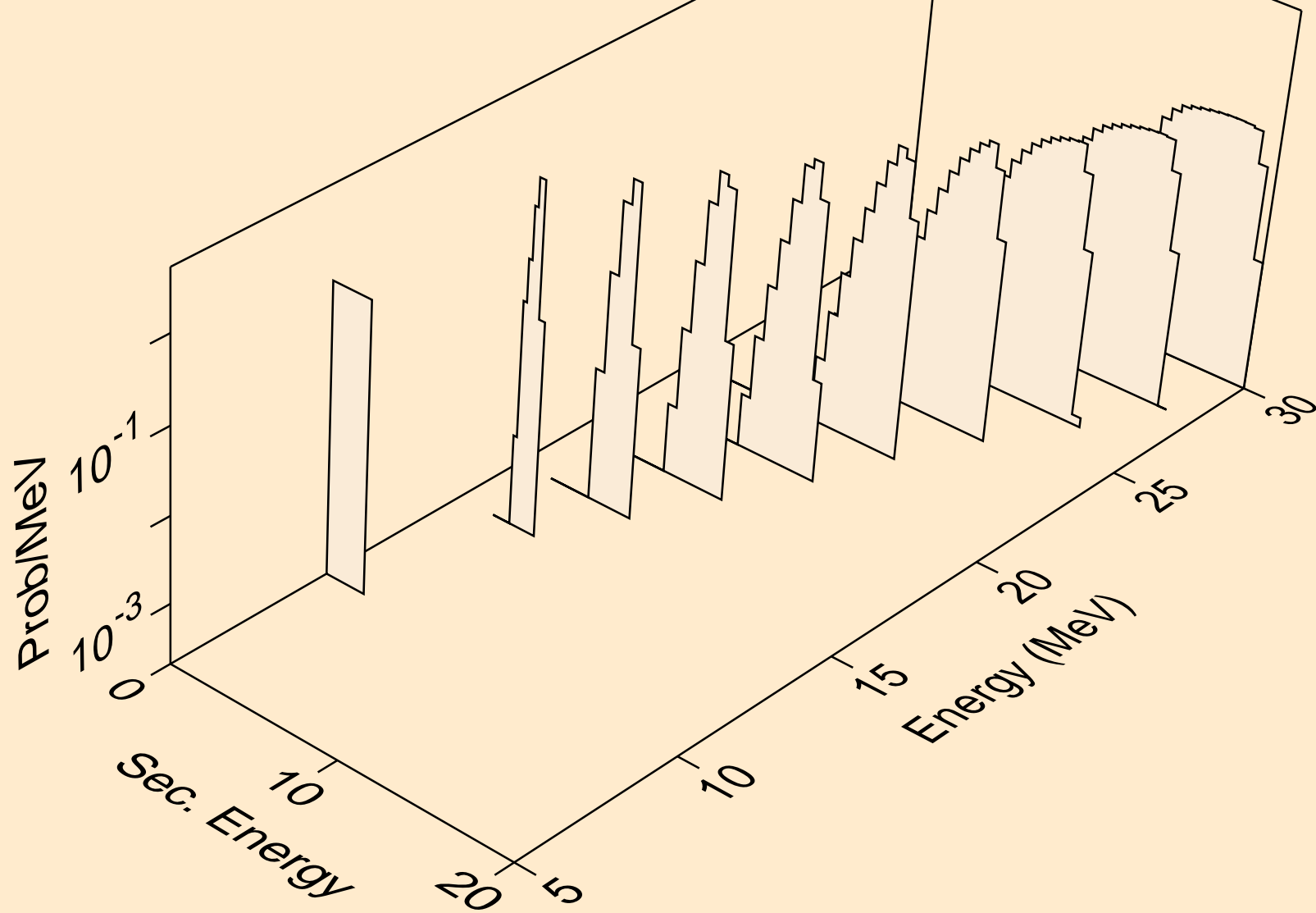
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deuterons from (n,d)



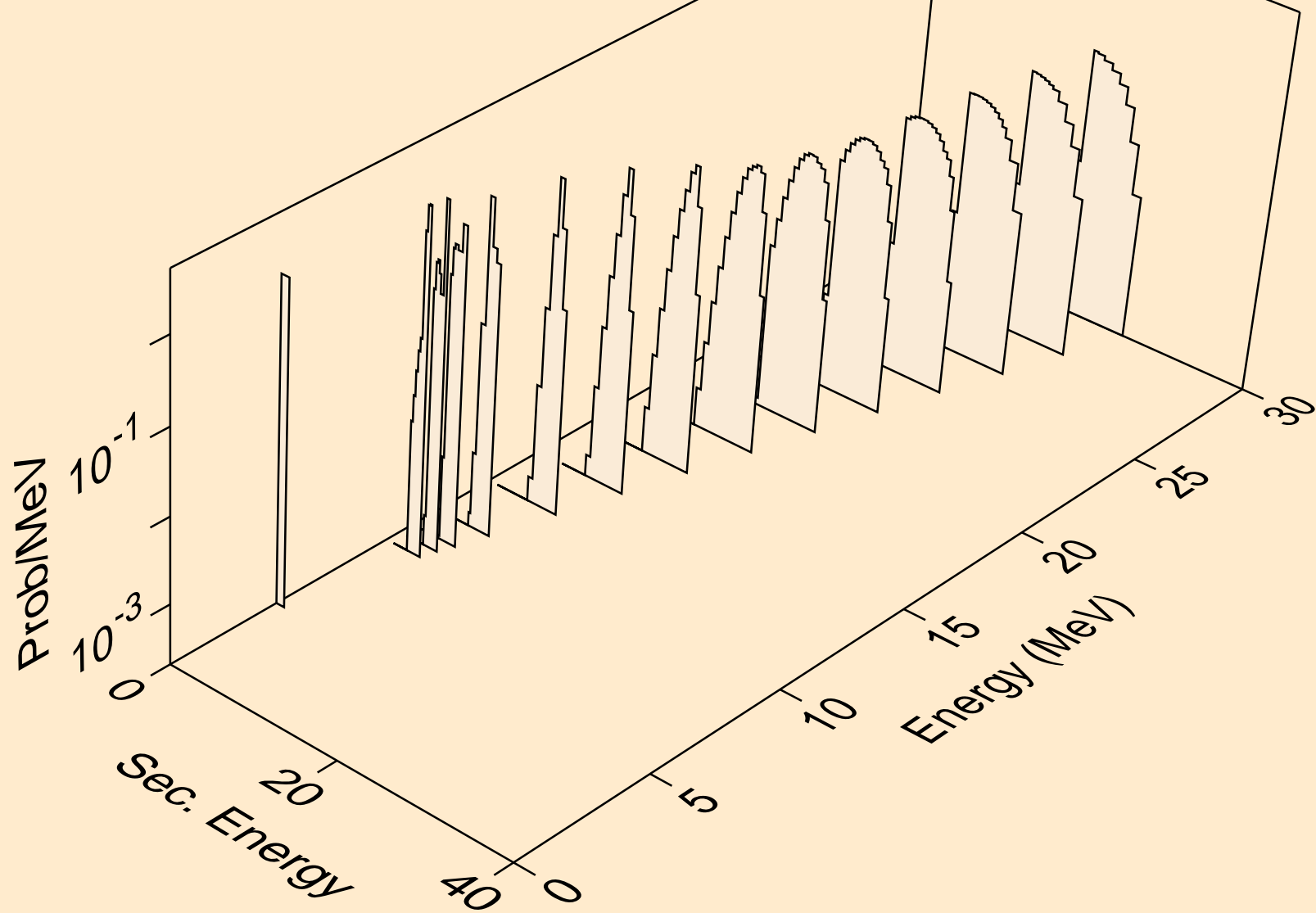
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tritons from (n,x)



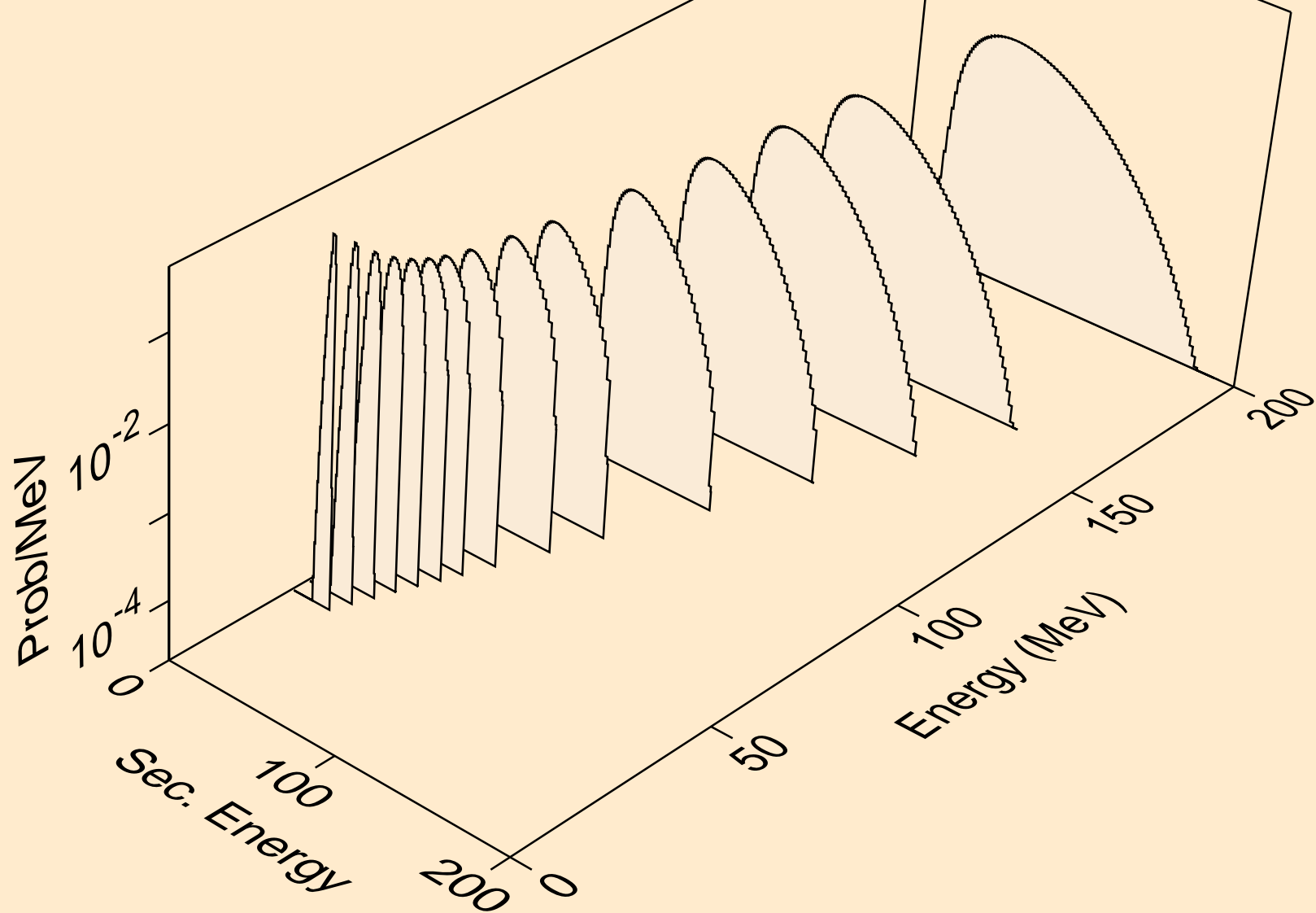
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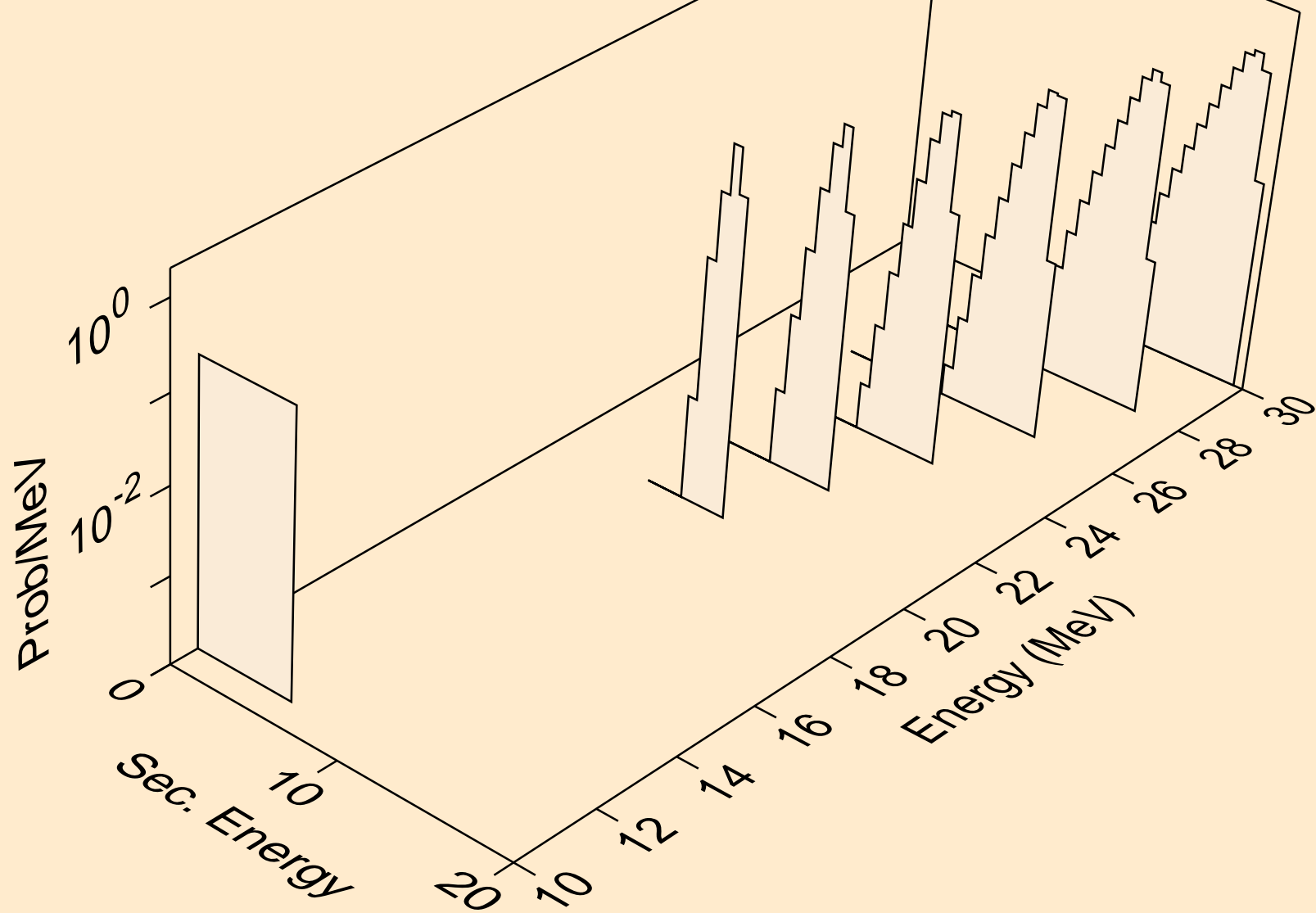
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tritons from (n,t)



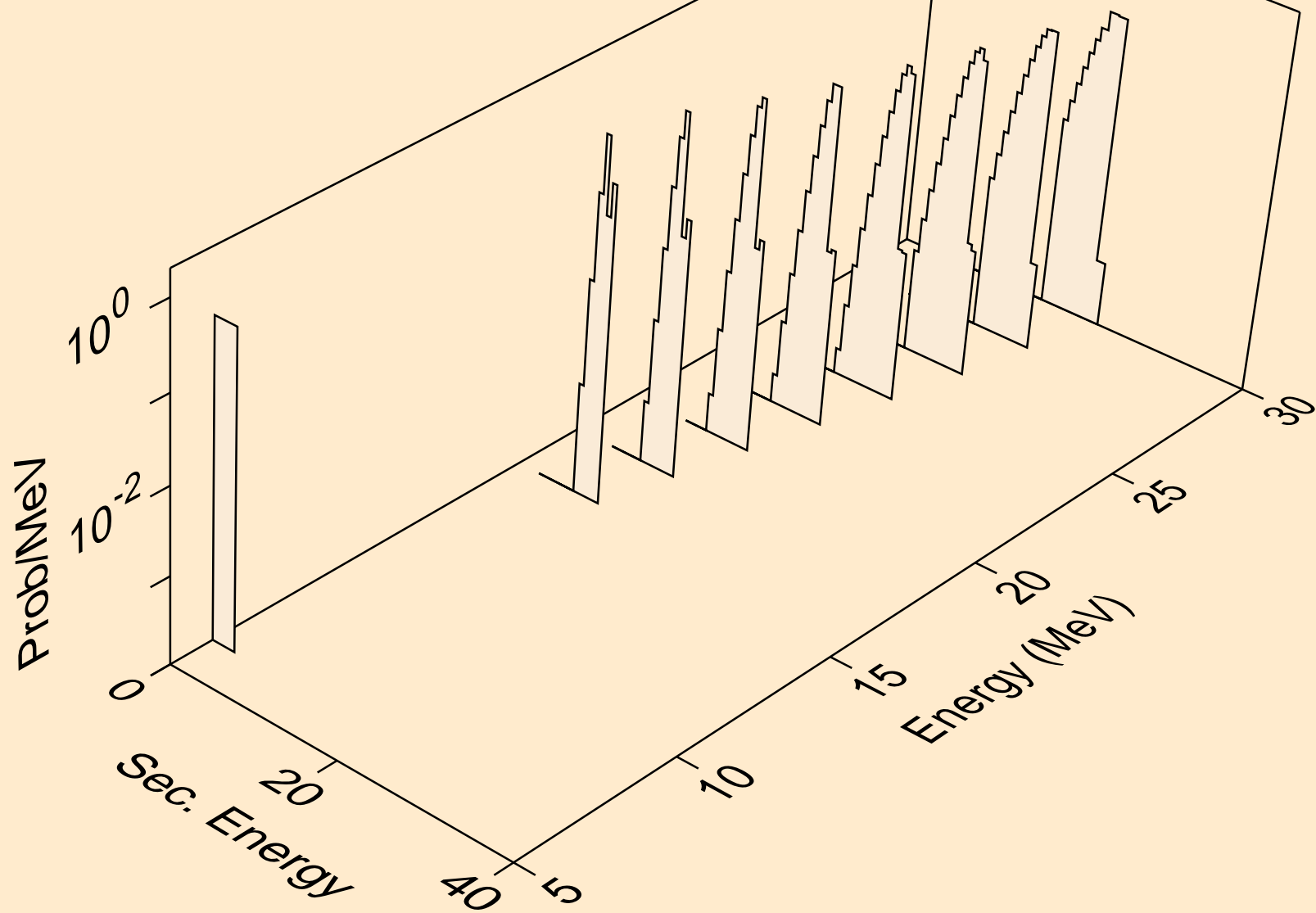
U239 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
he3s from (n,x)



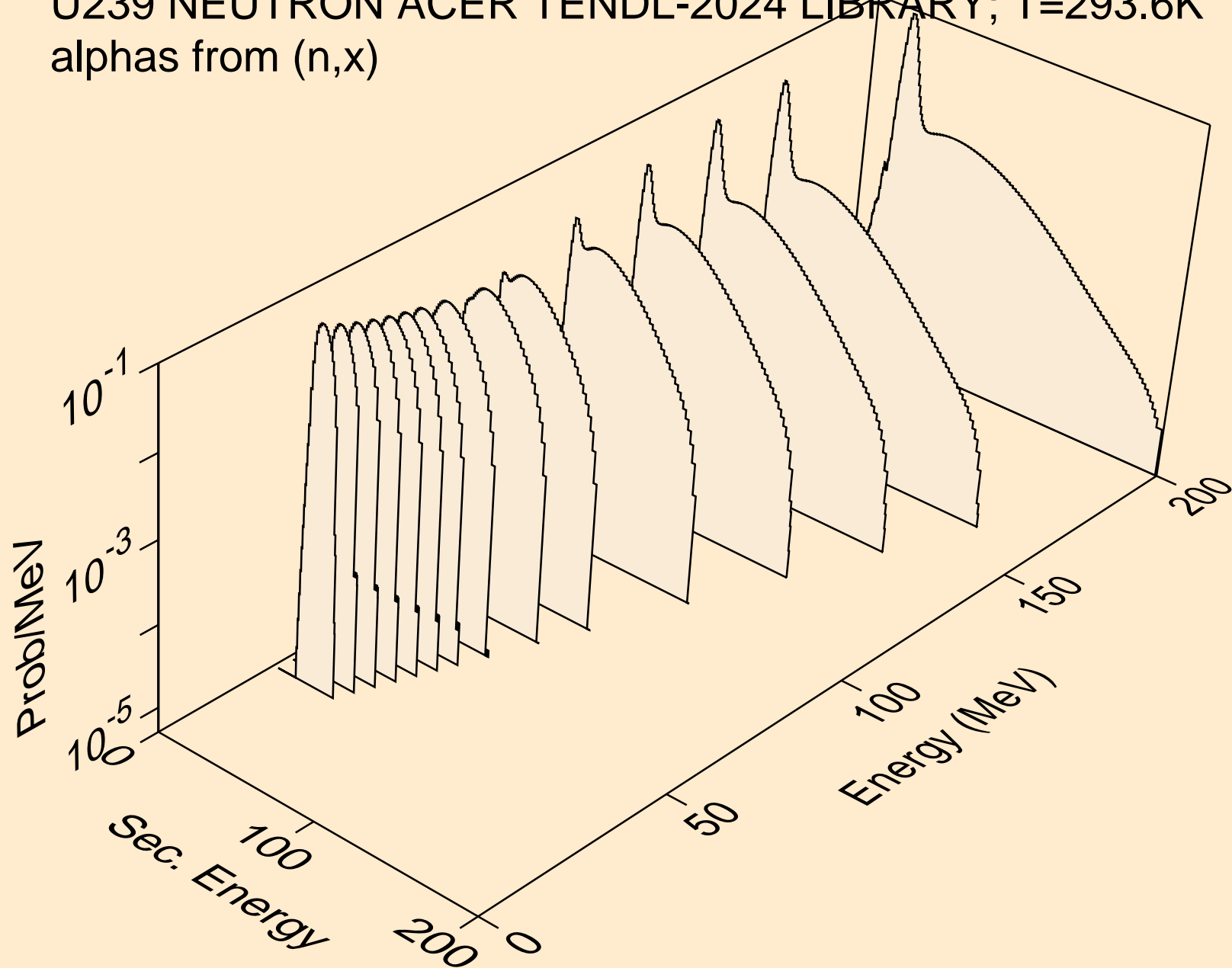
U239 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
he3s from (n,n\*)he3



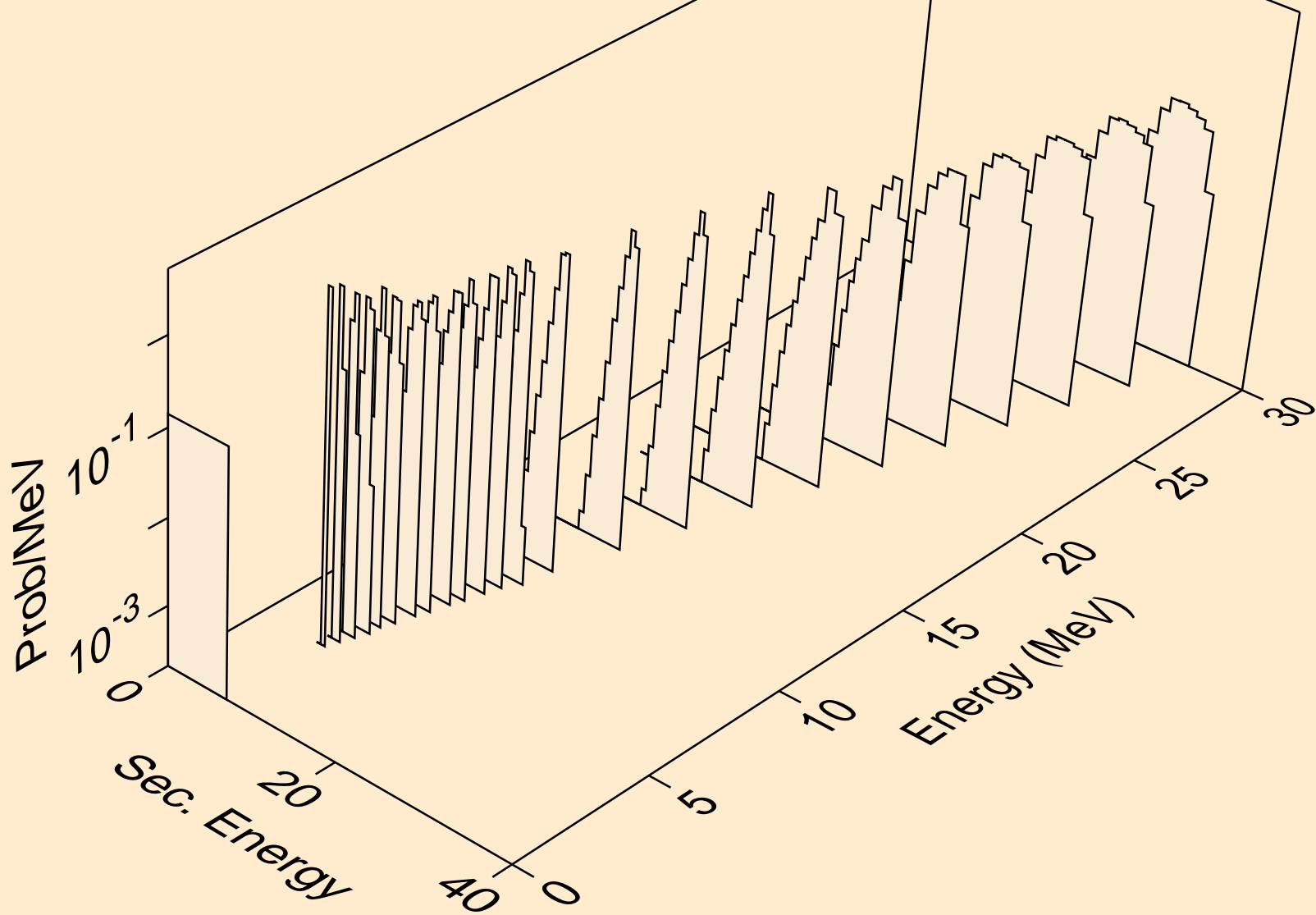
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he3s from (n,he3)



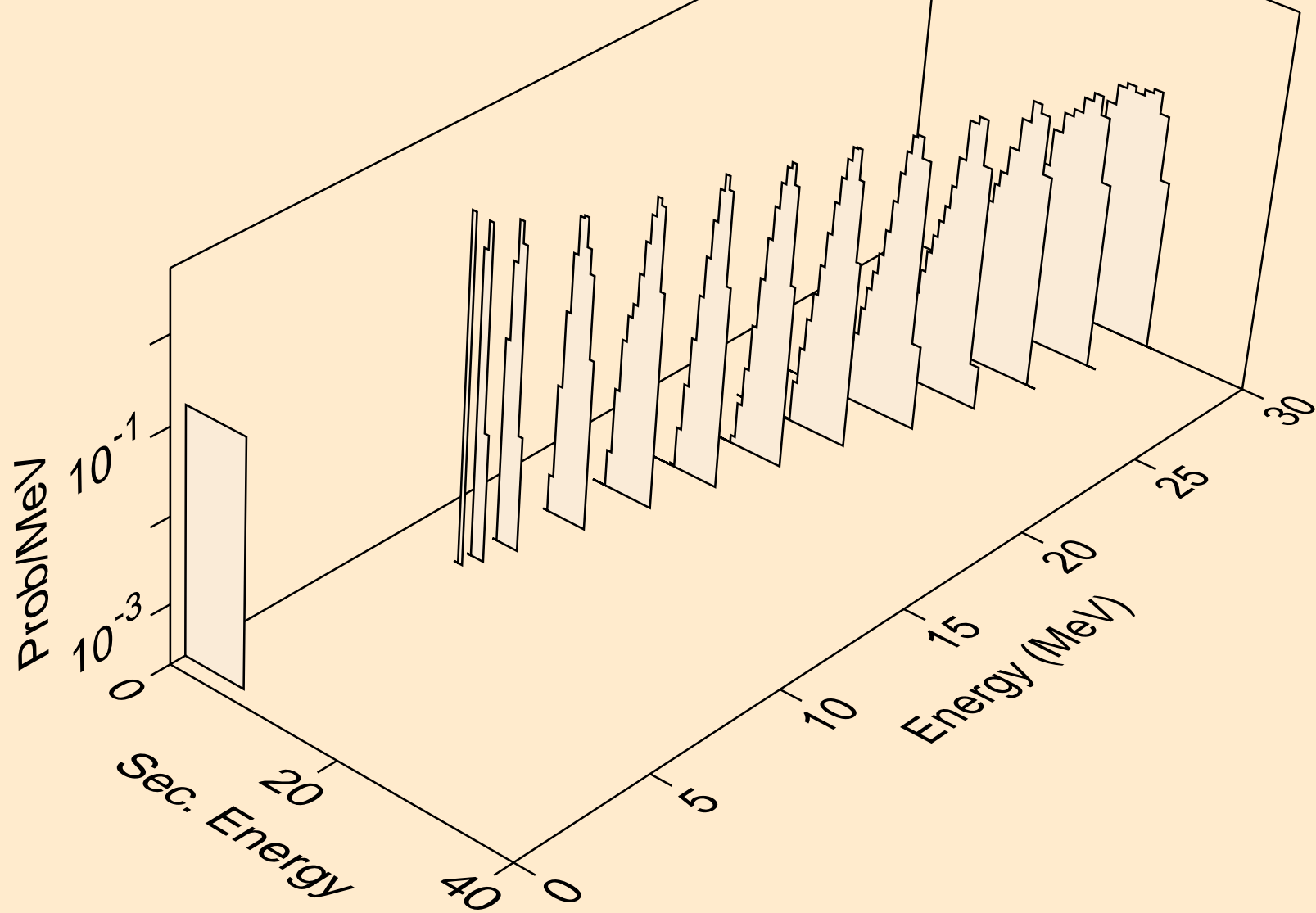
U239 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
alphas from (n,x)



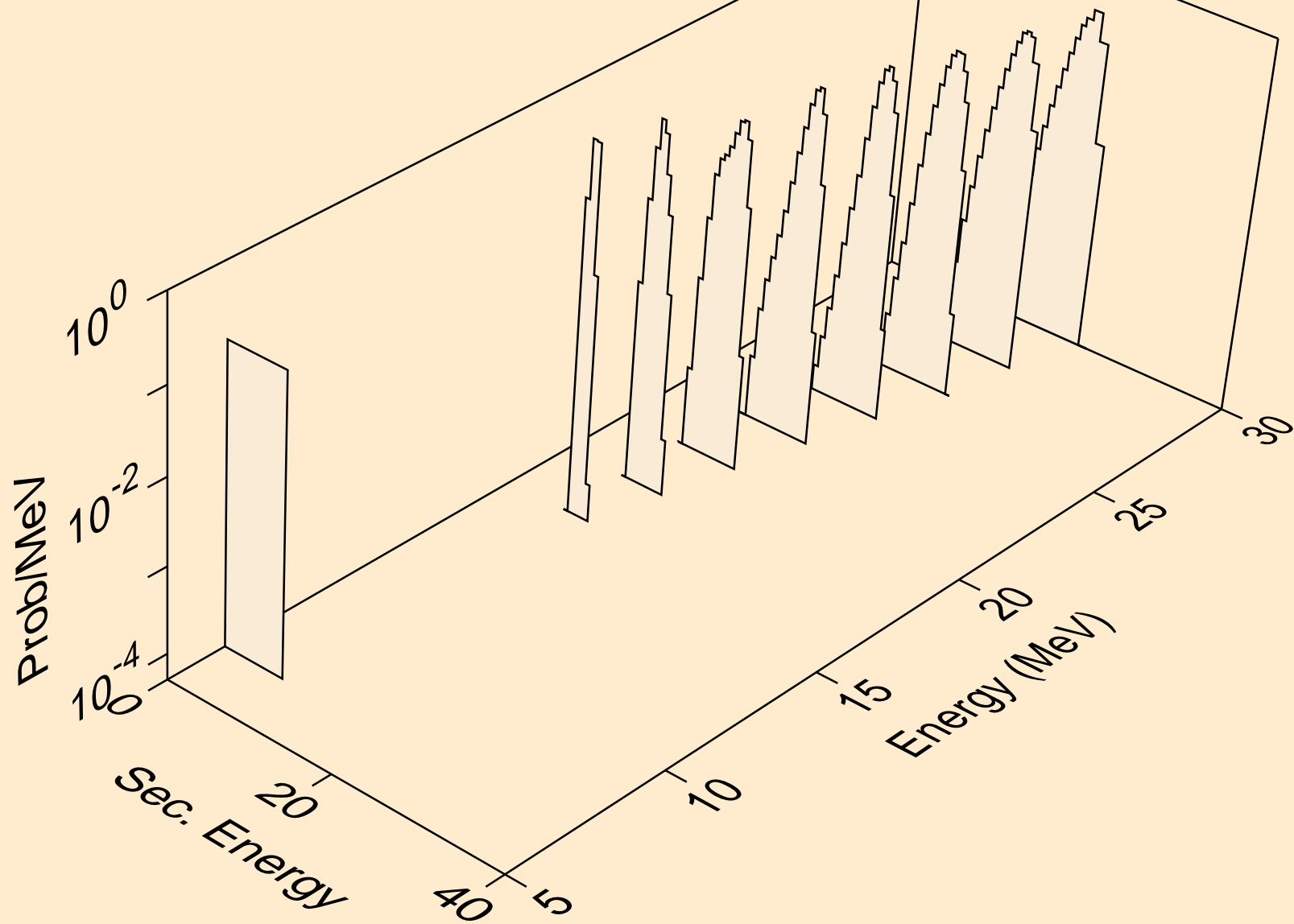
U239 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
alphas from (n,n\*)a



U239 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
alphas from (n,2n)a



U239 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
alphas from (n,3n)a



U239 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
alphas from (n,a)

