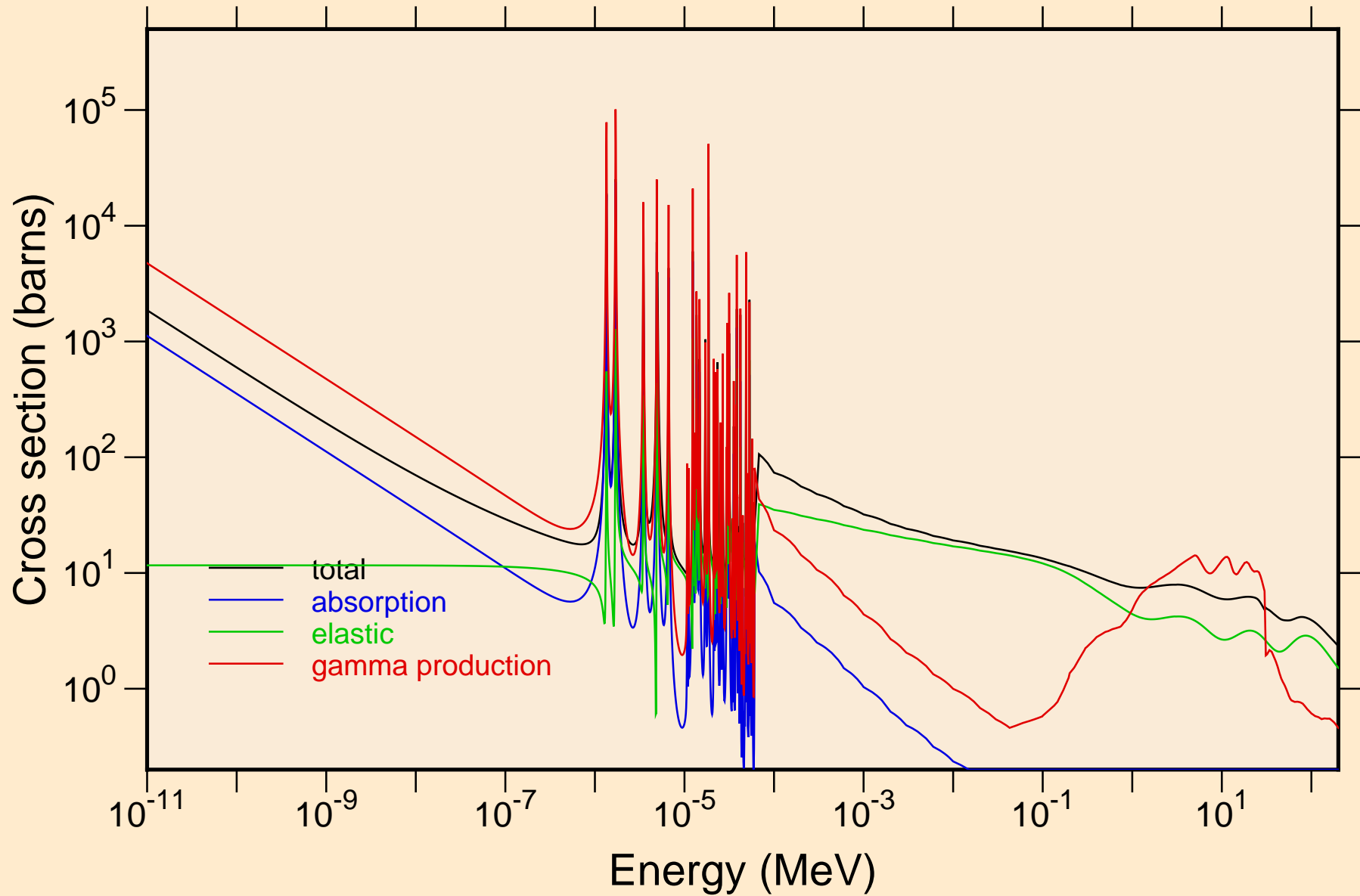
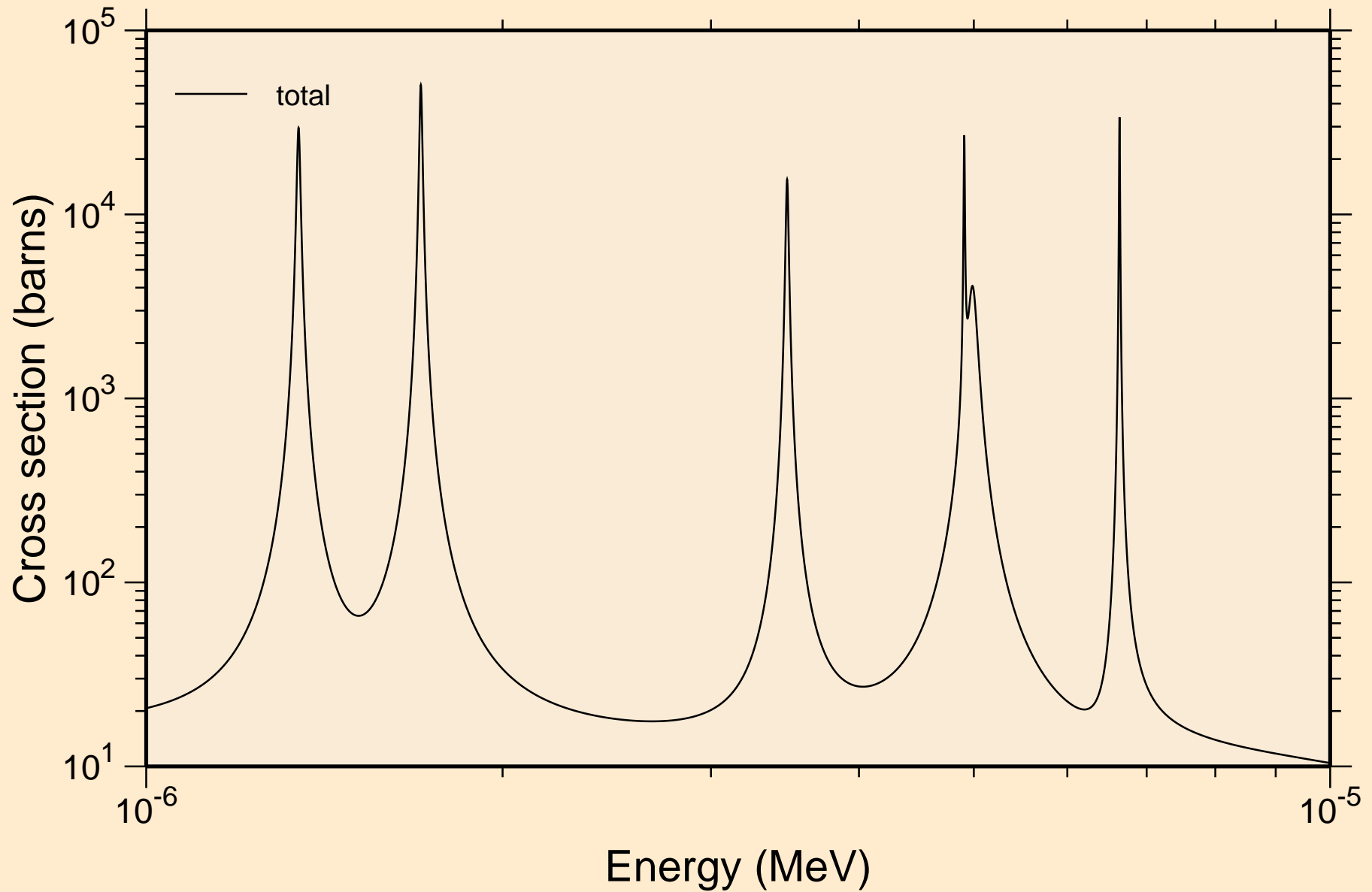


# U239 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

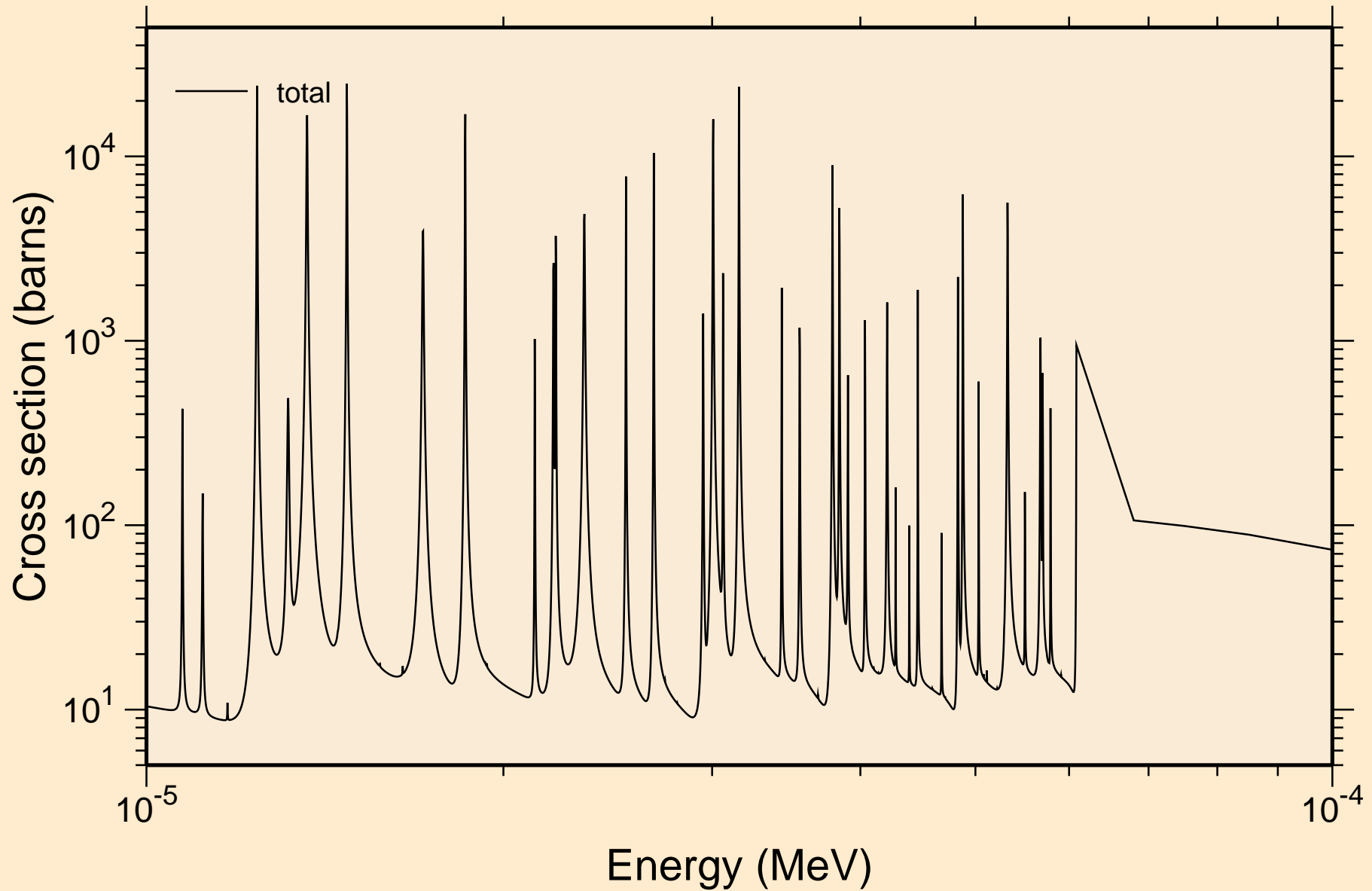
## Principal cross sections



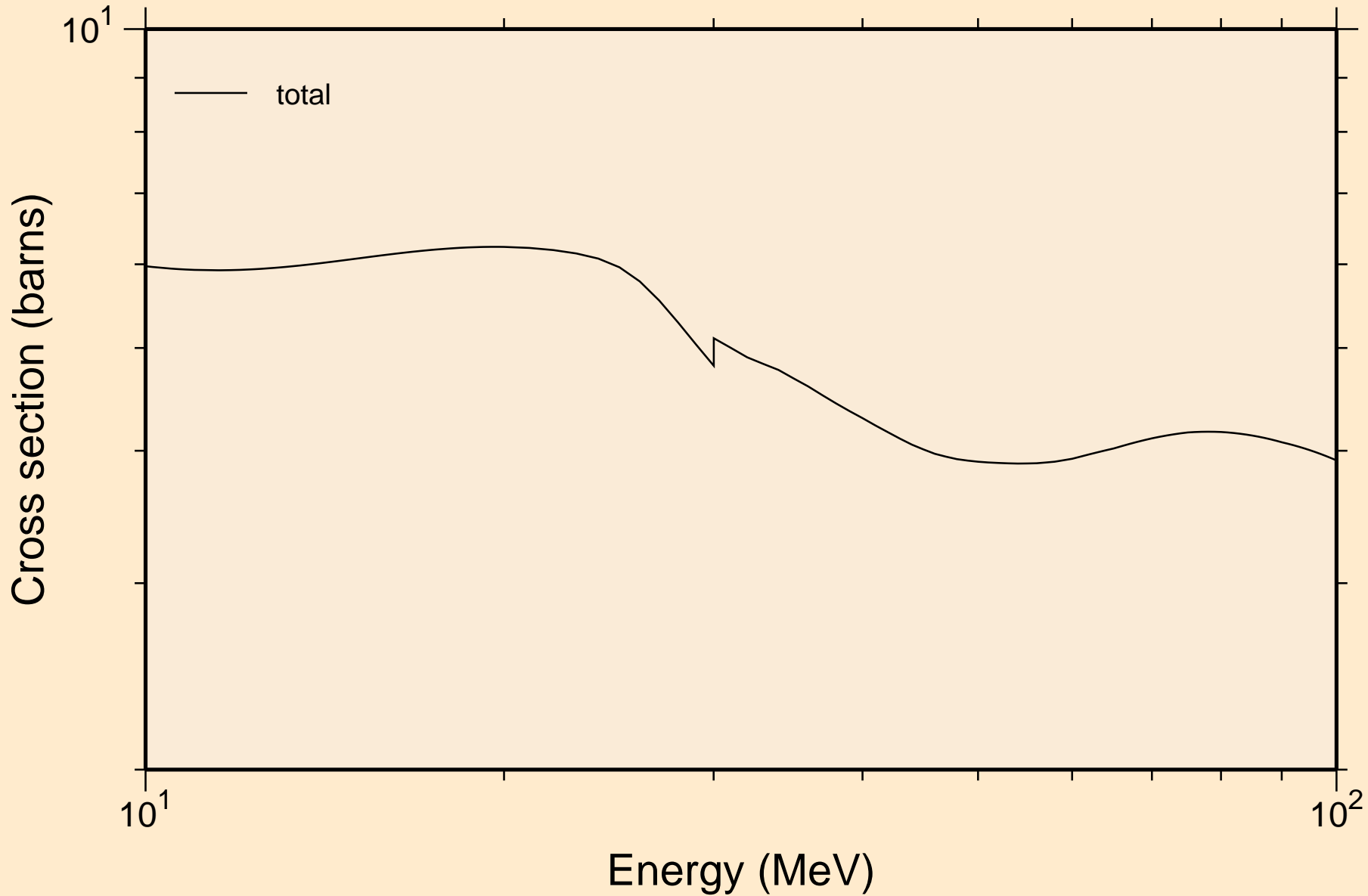
U239 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
resonance total cross section



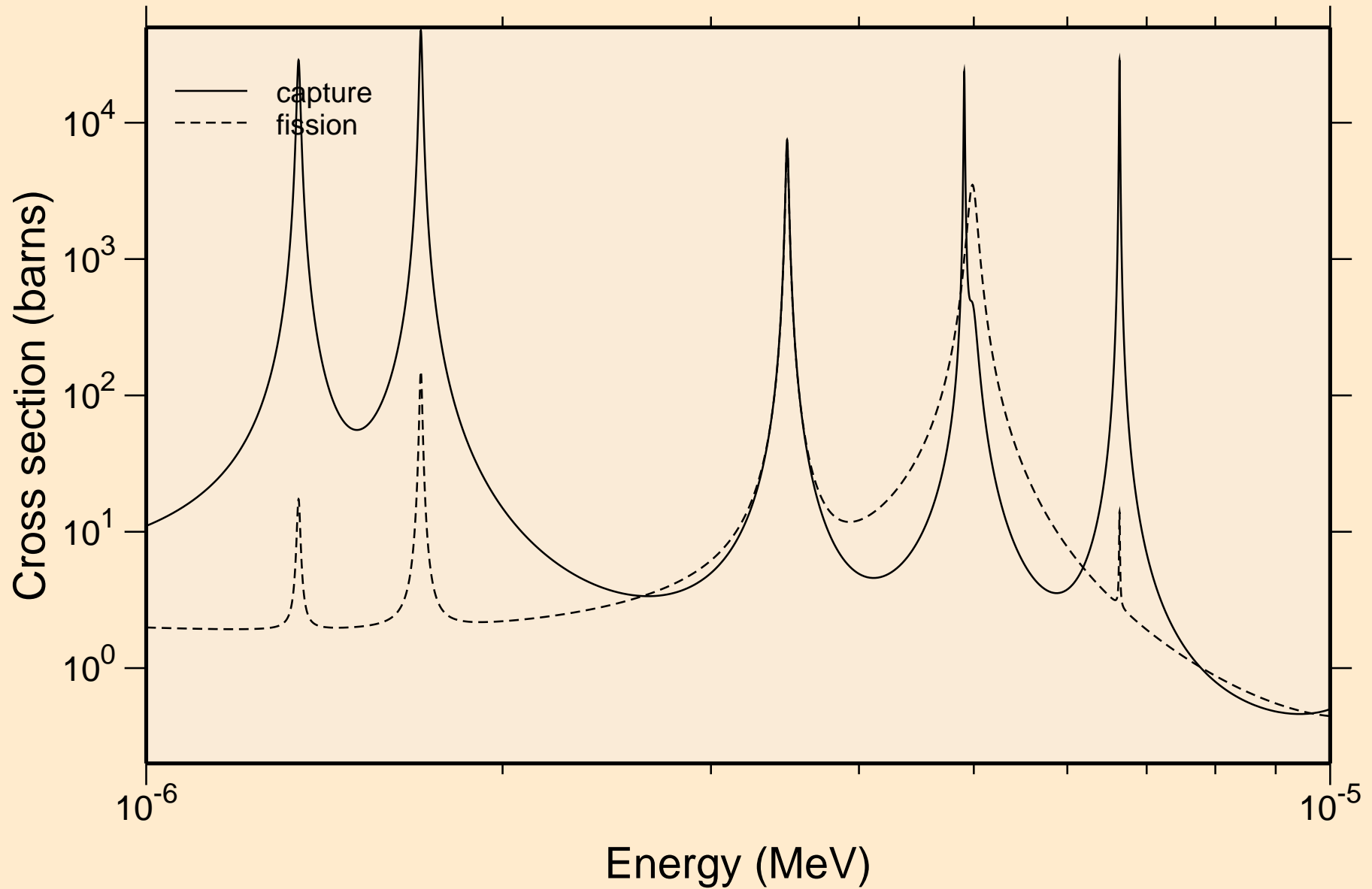
U239 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
resonance total cross section



U239 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
resonance total cross section

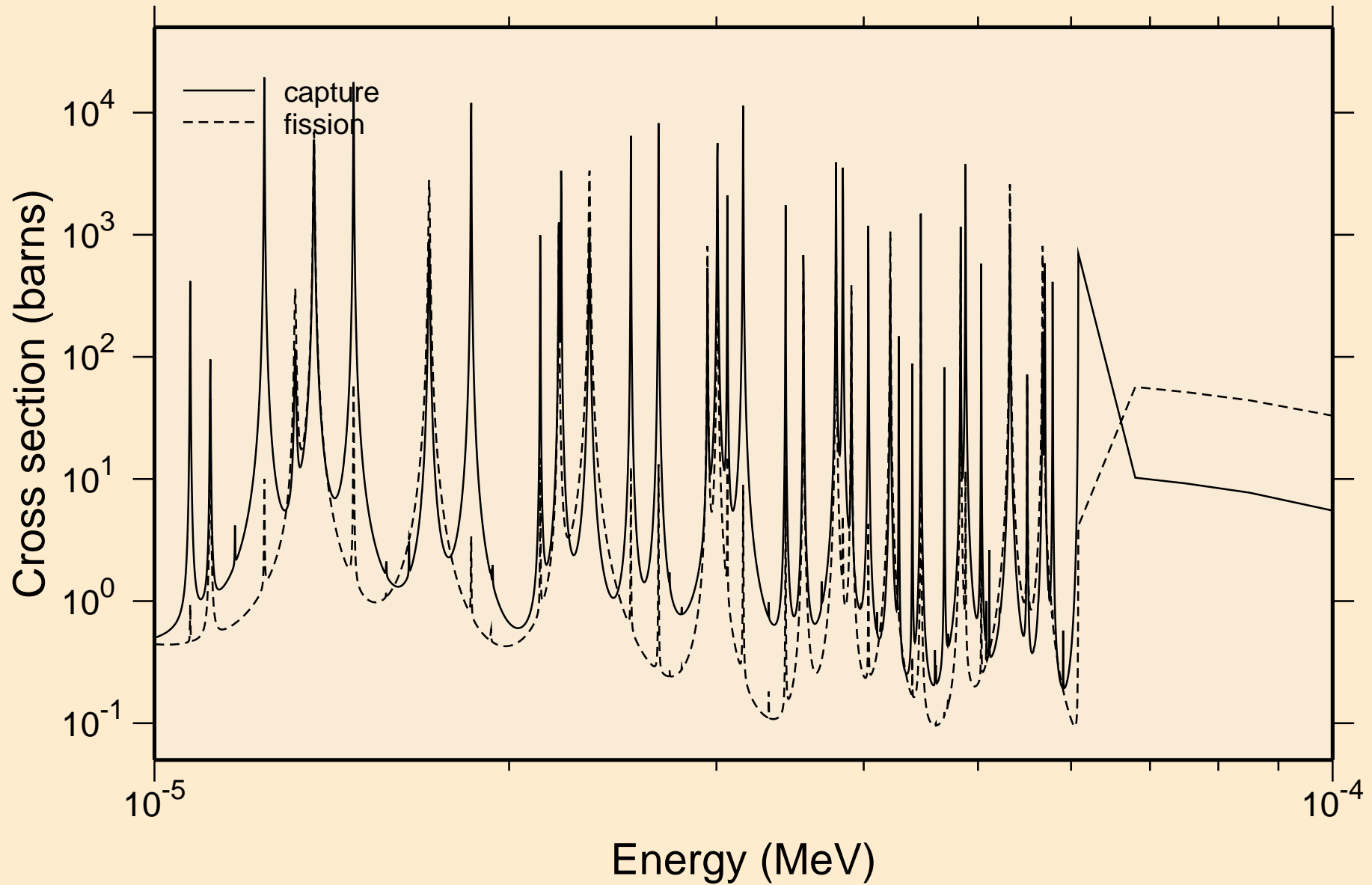


U239 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
resonance absorption cross sections

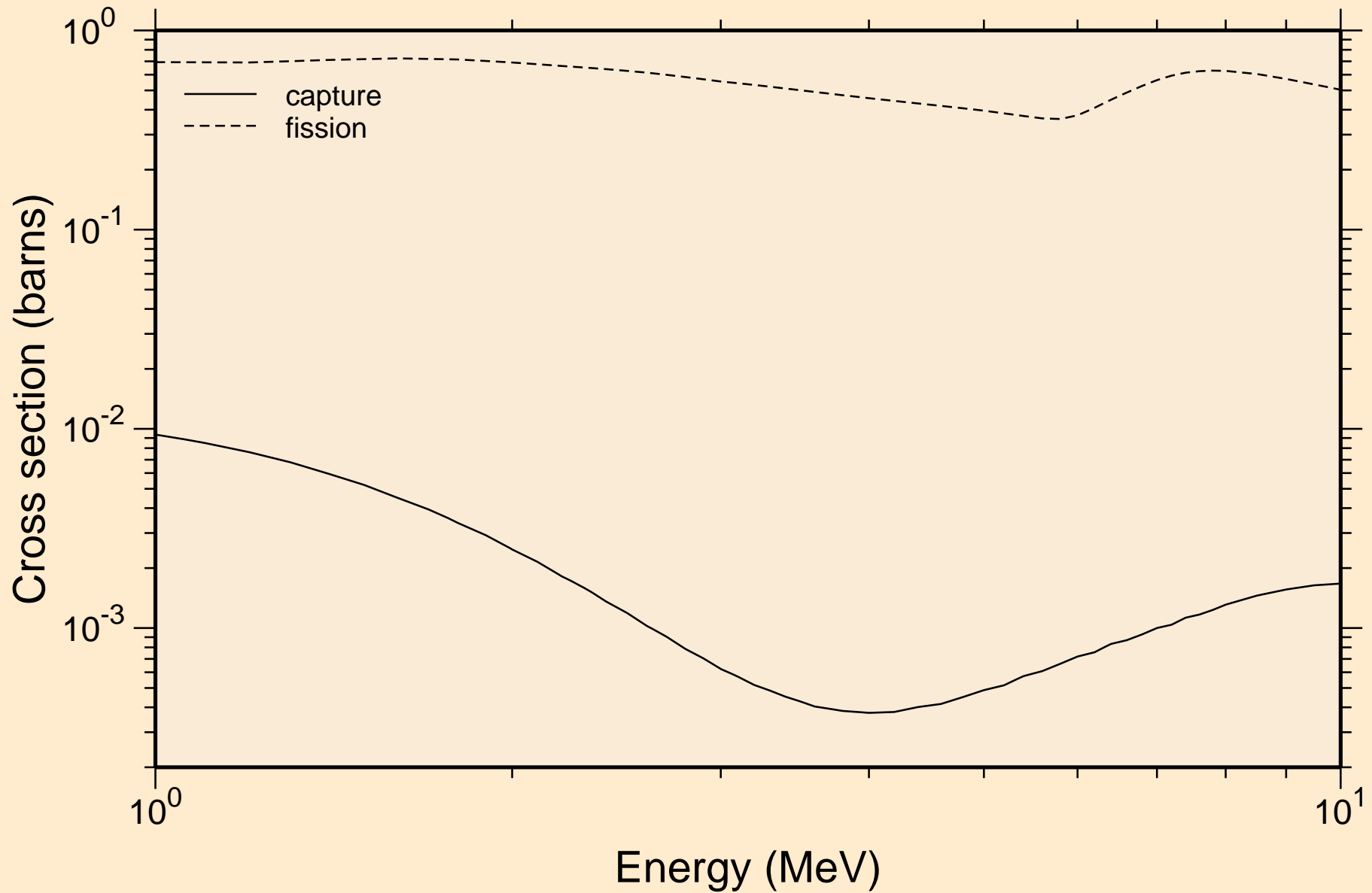


# U239 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

## resonance absorption cross sections

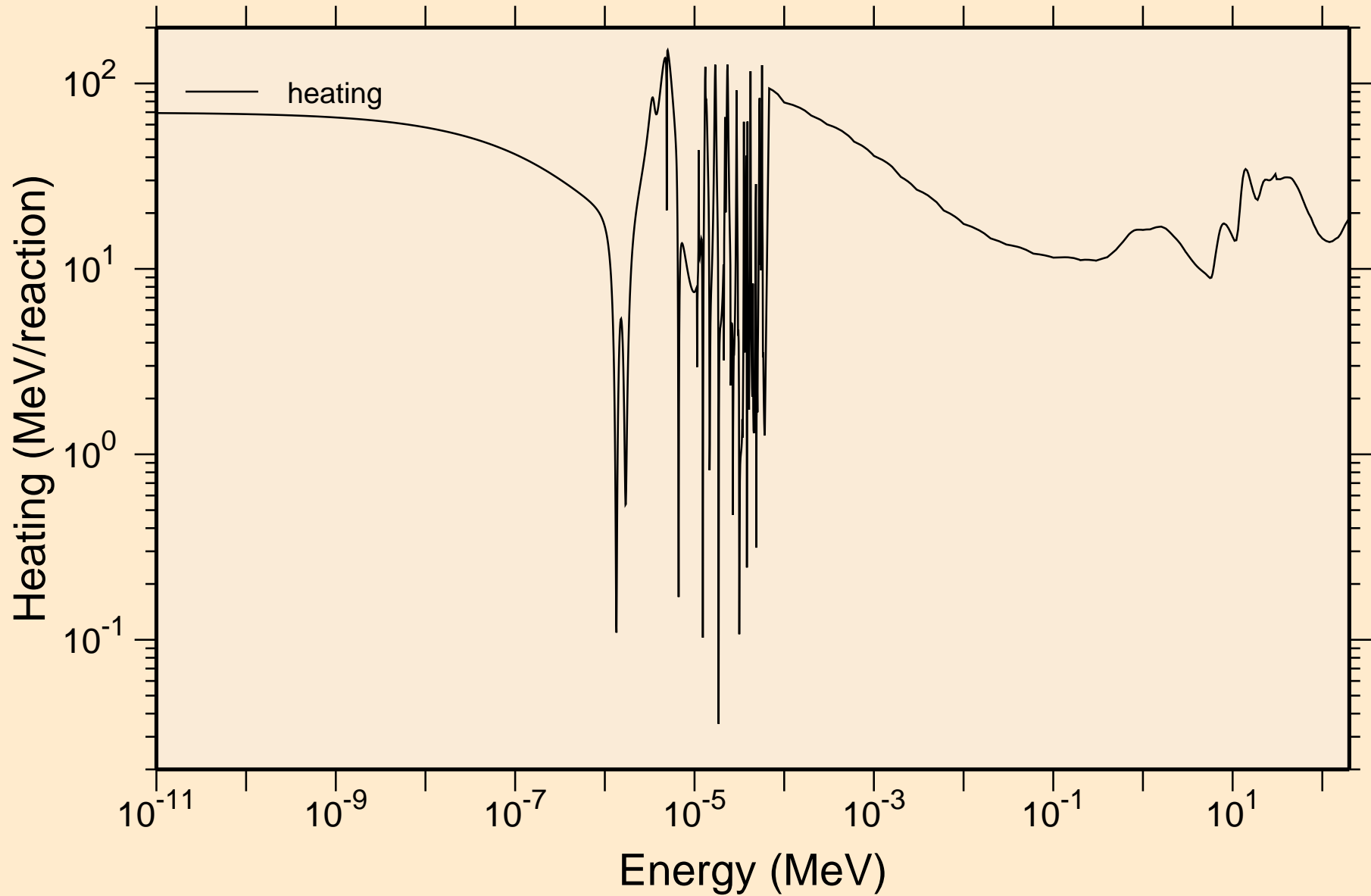


U239 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
resonance absorption cross sections



# U239 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

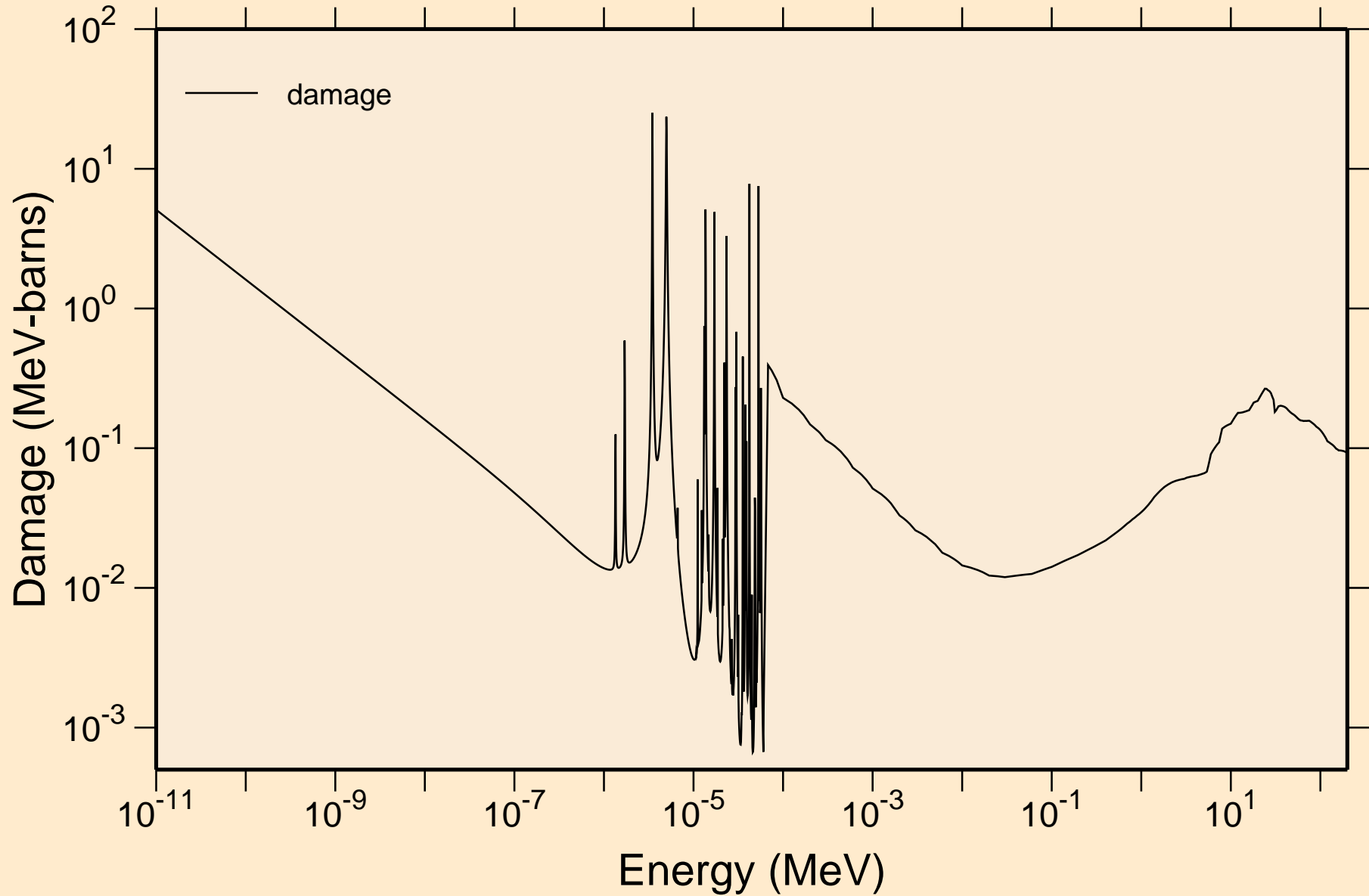
## Heating





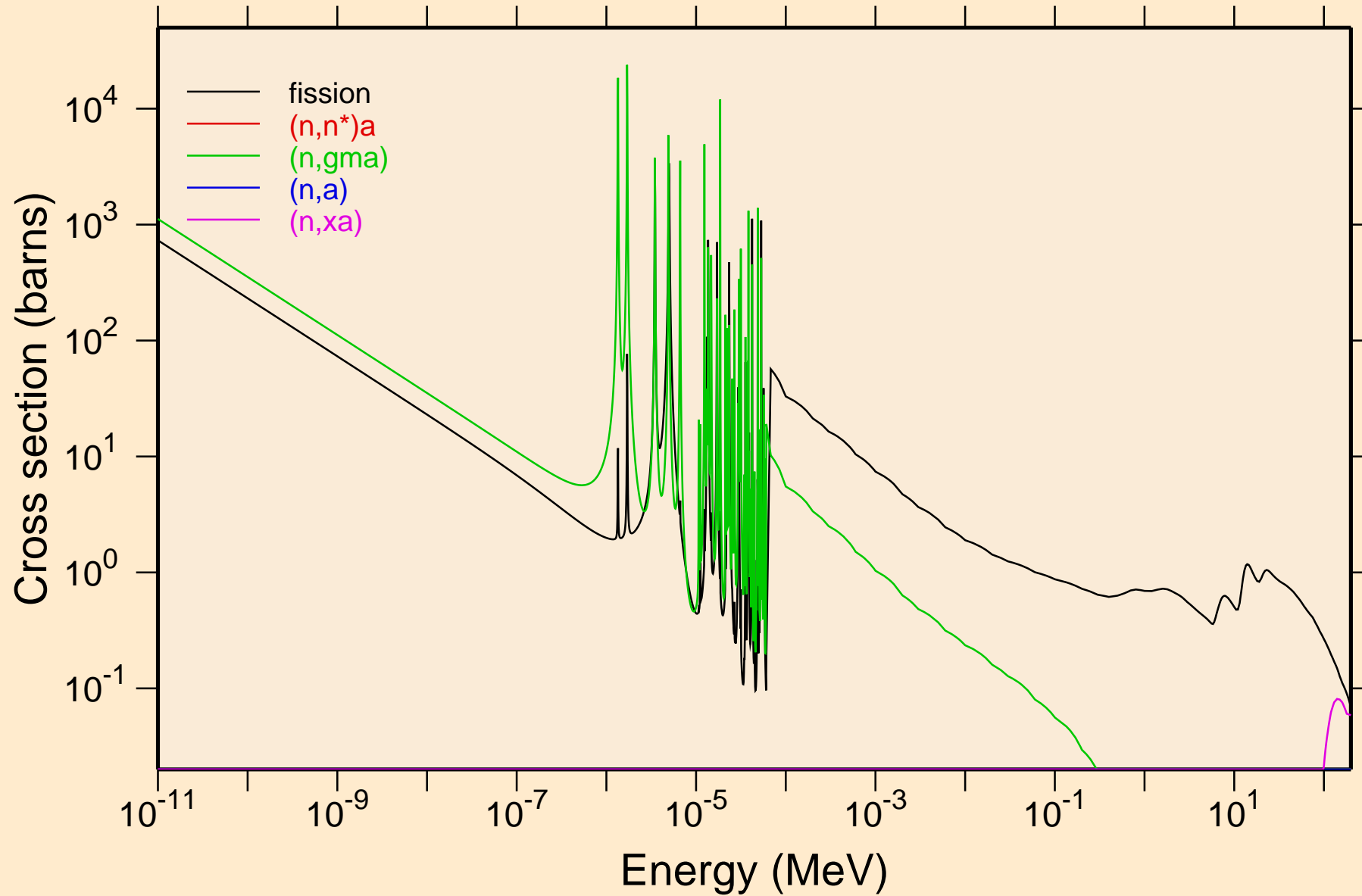
# U239 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

## Damage



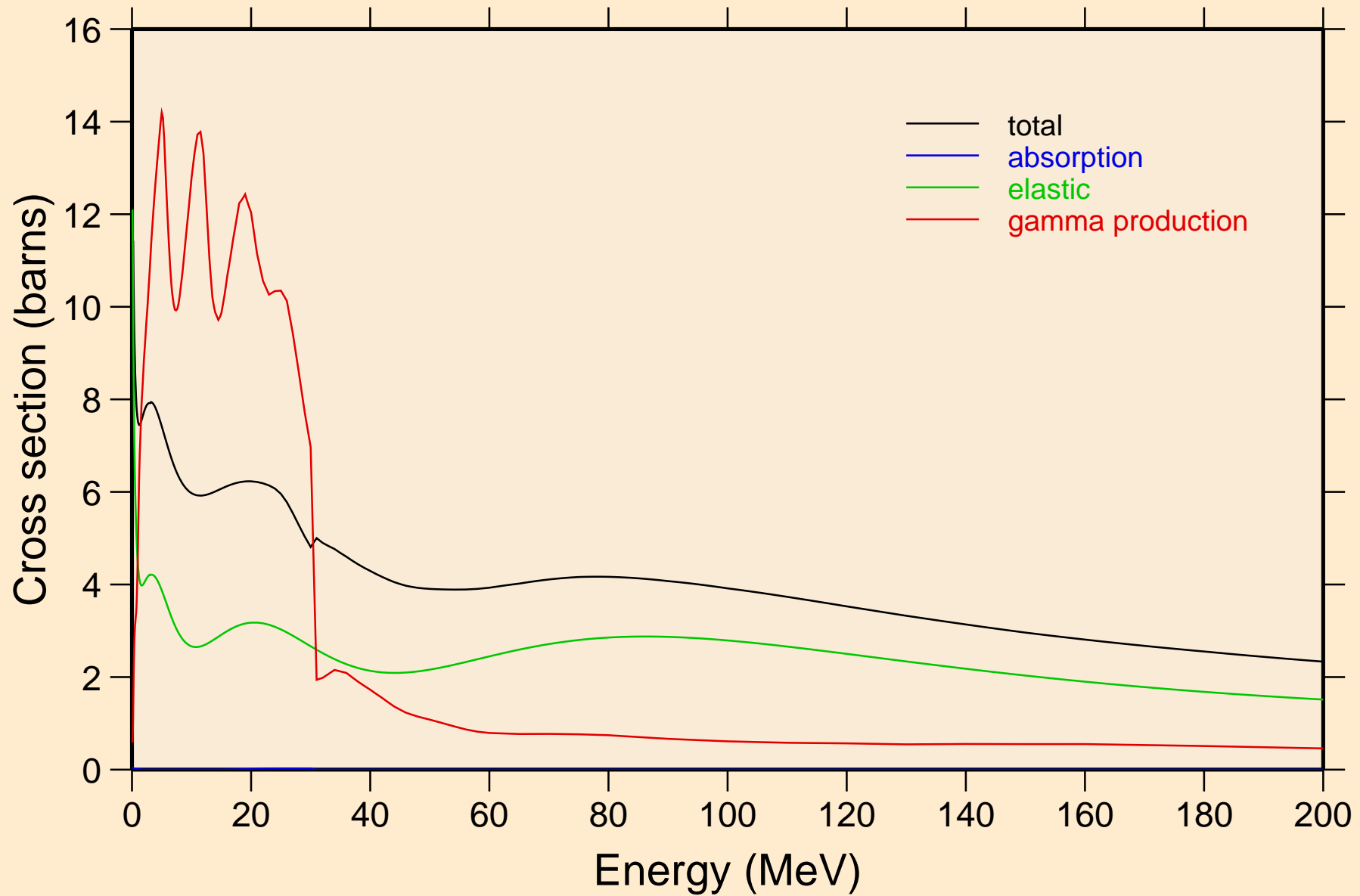
# U239 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

## Non-threshold reactions



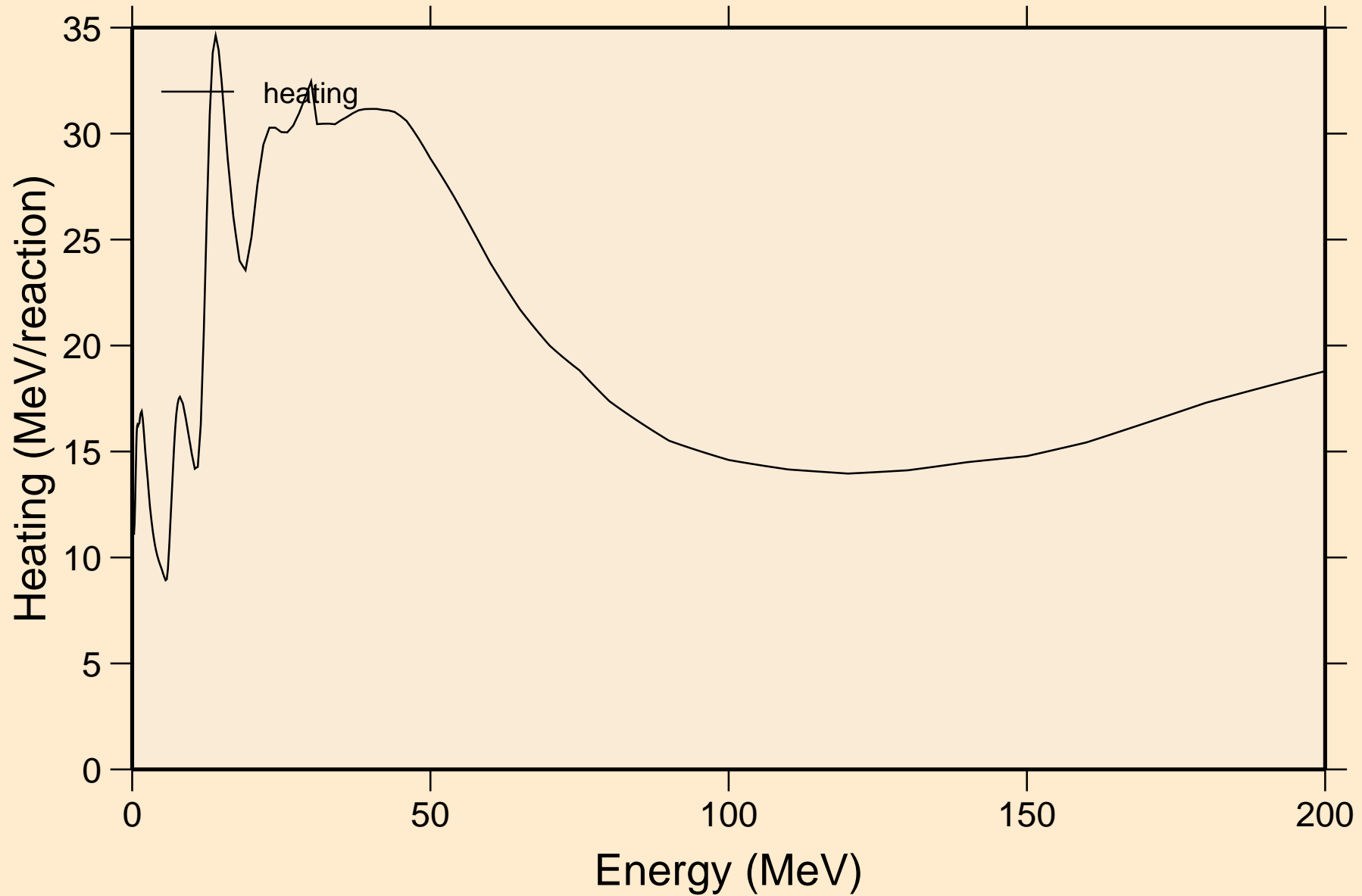
# U239 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

## Principal cross sections



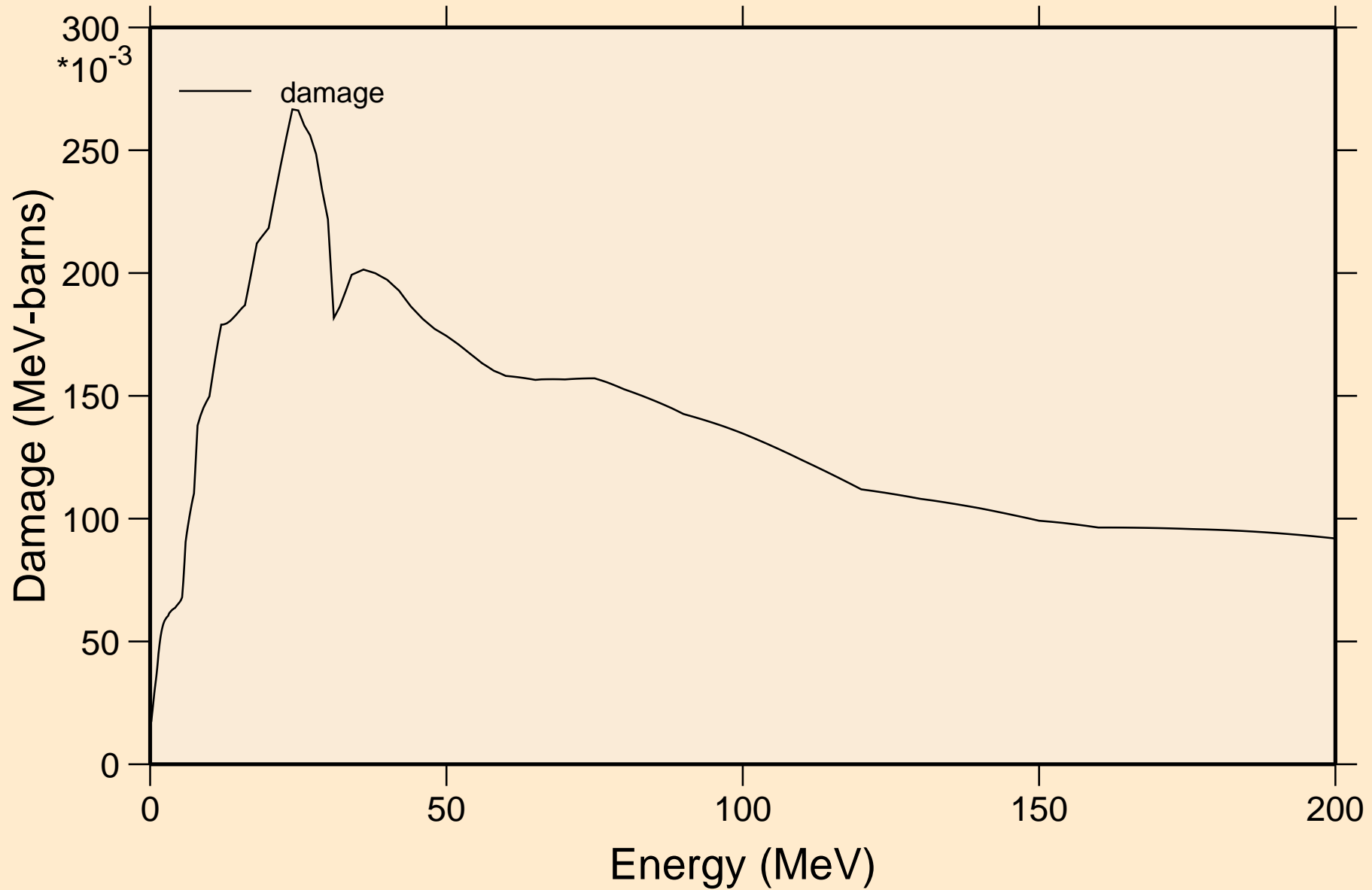
# U239 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

## Heating



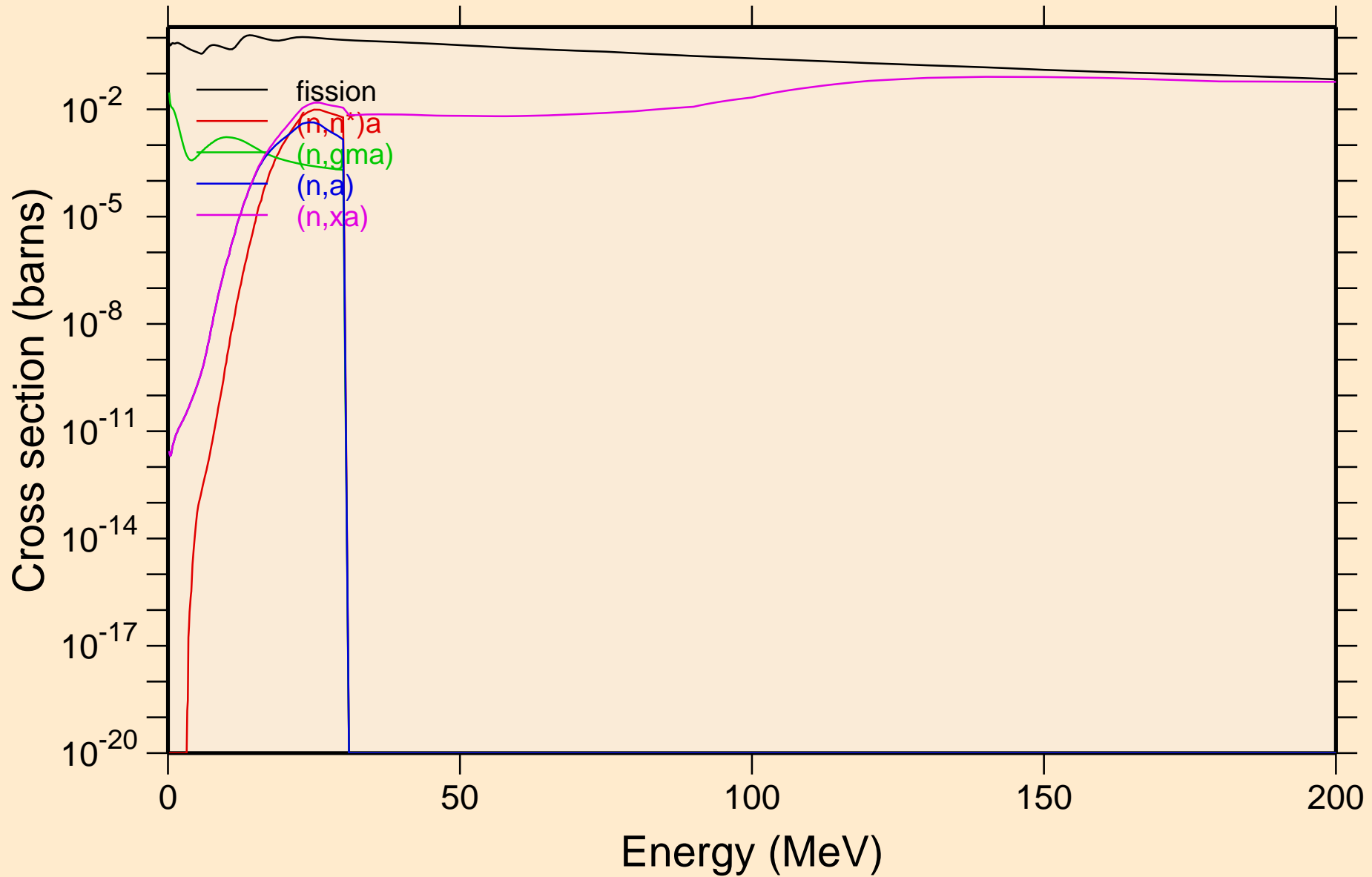
# U239 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

## Damage

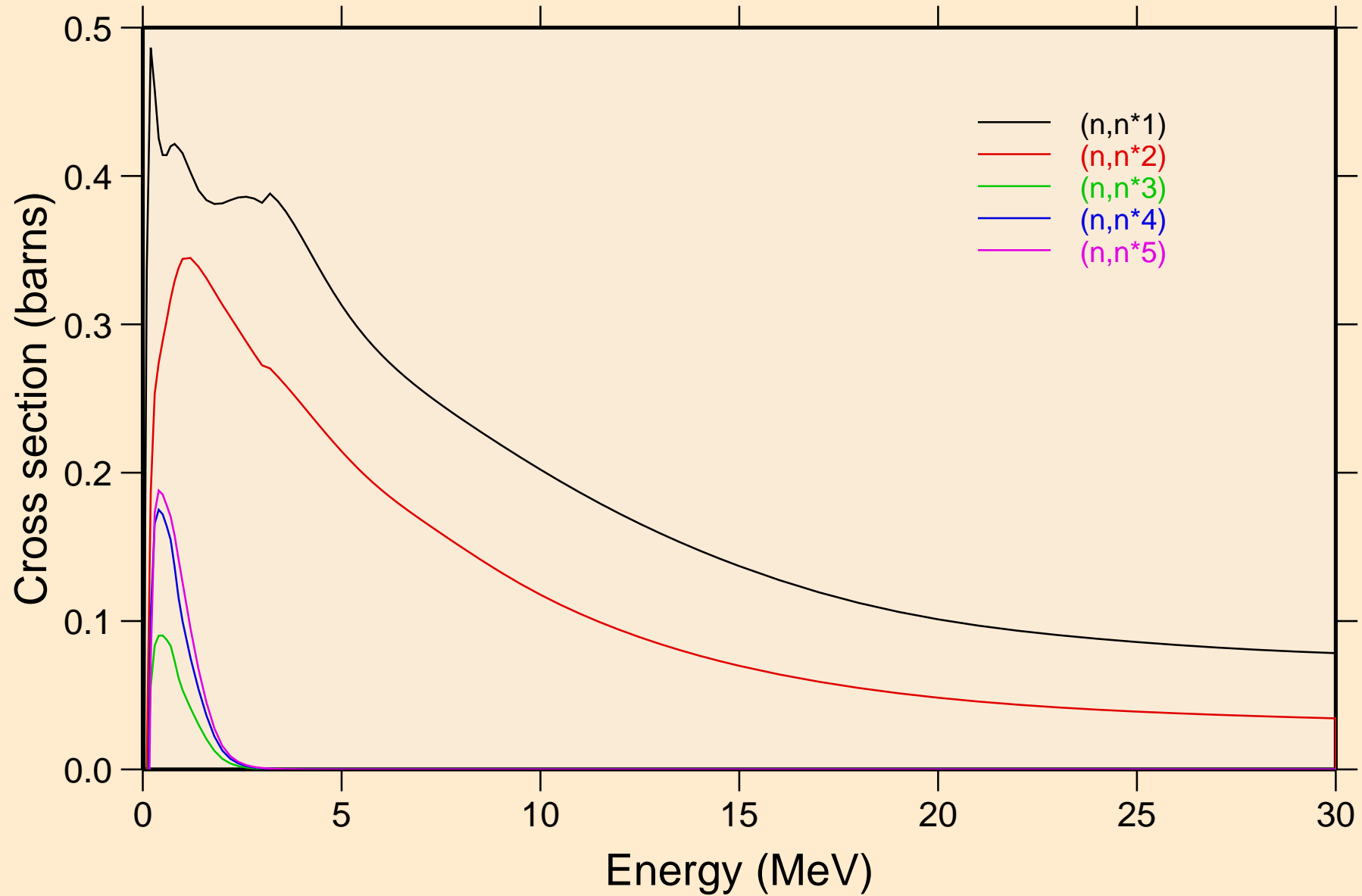


# U239 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

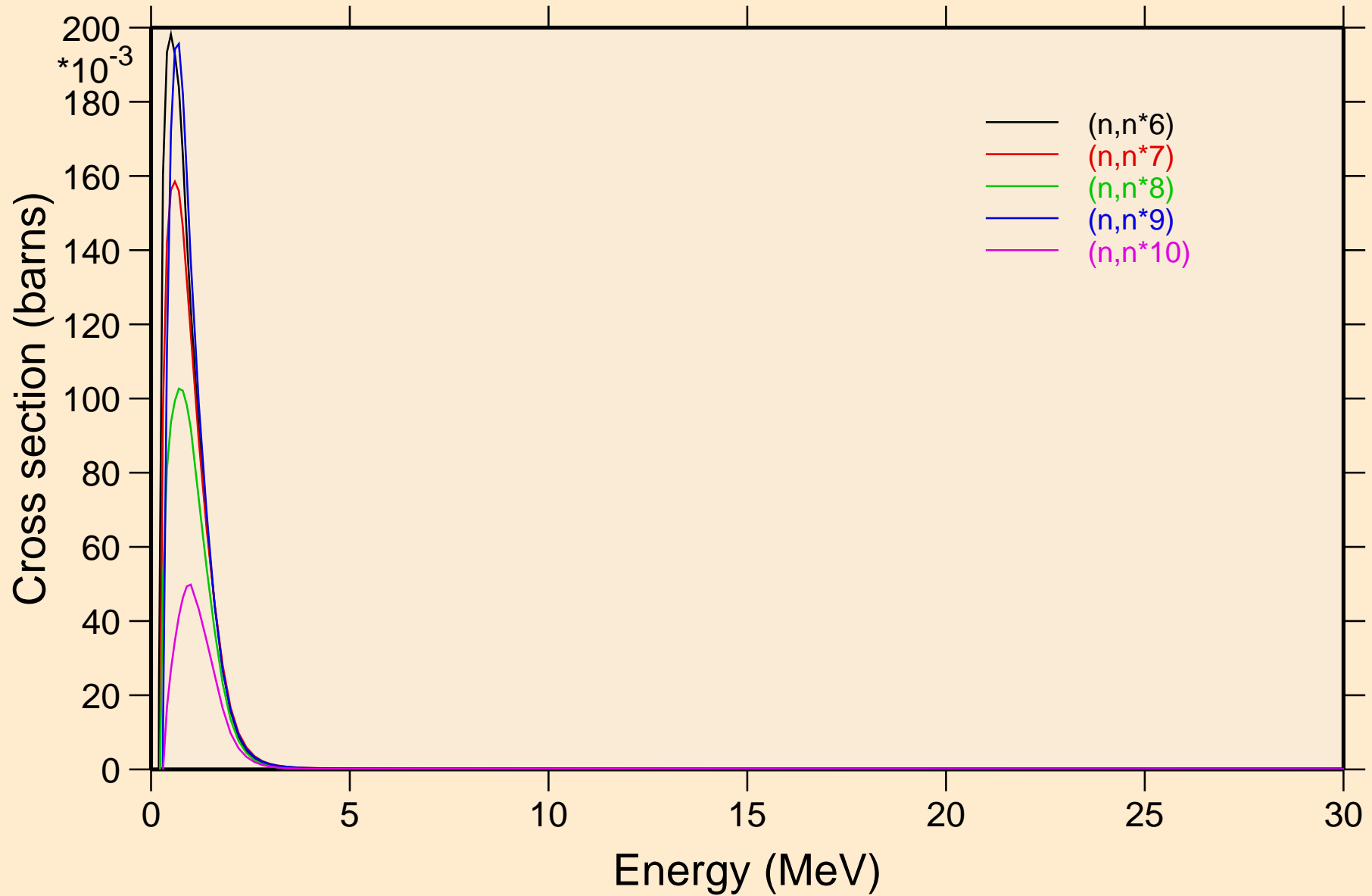
## Non-threshold reactions



U239 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Inelastic levels

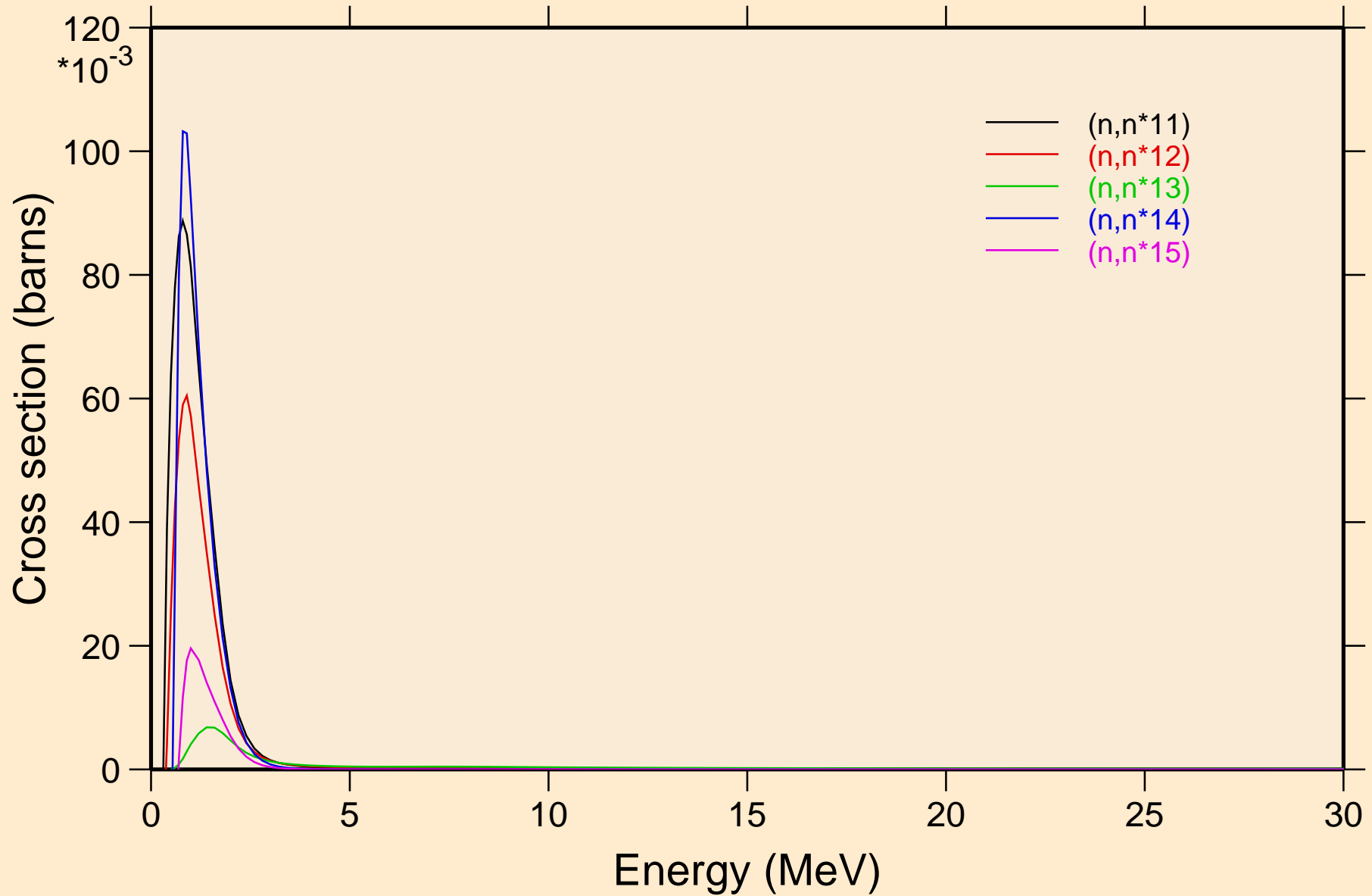


U239 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Inelastic levels



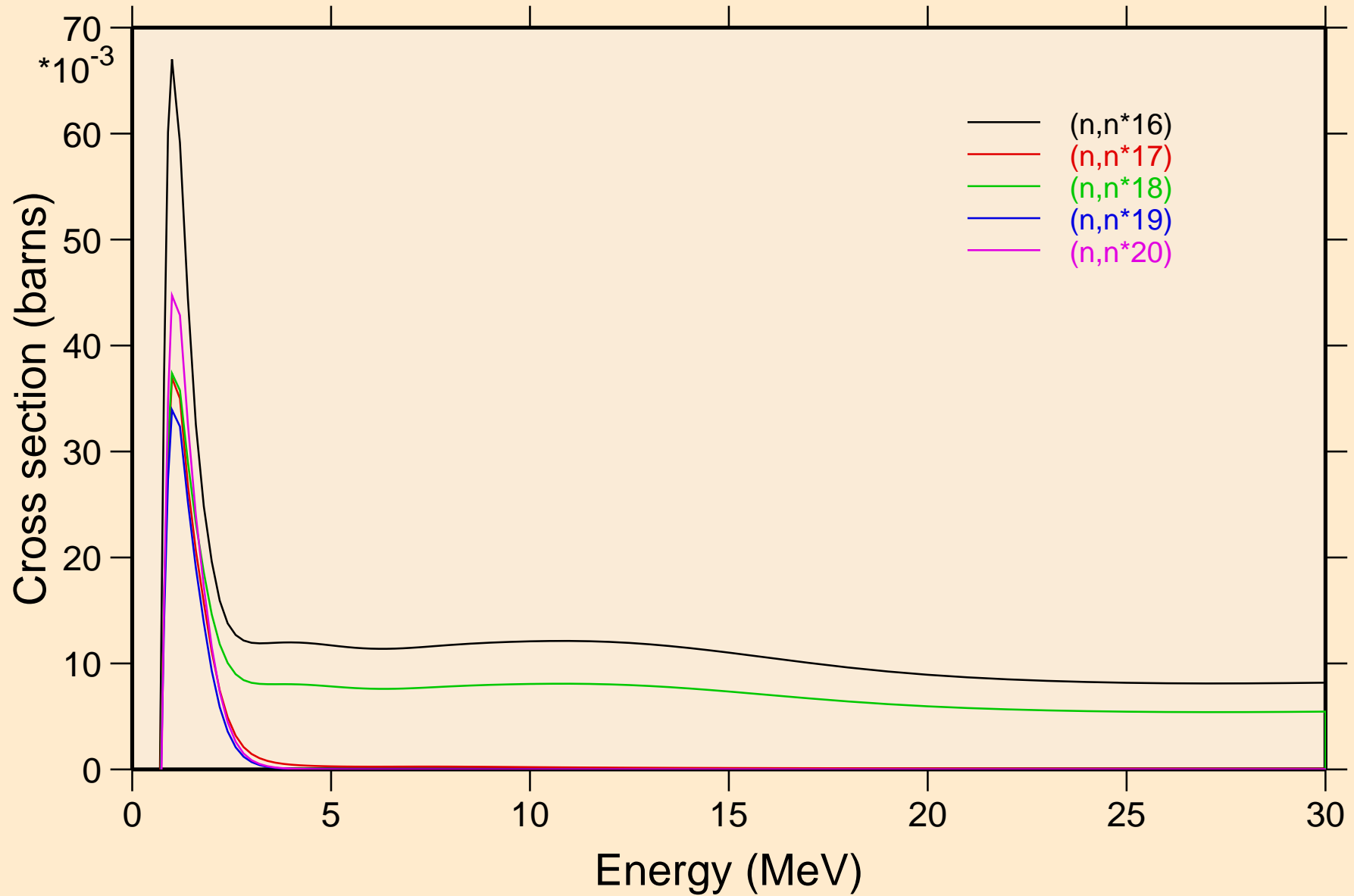


U239 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Inelastic levels

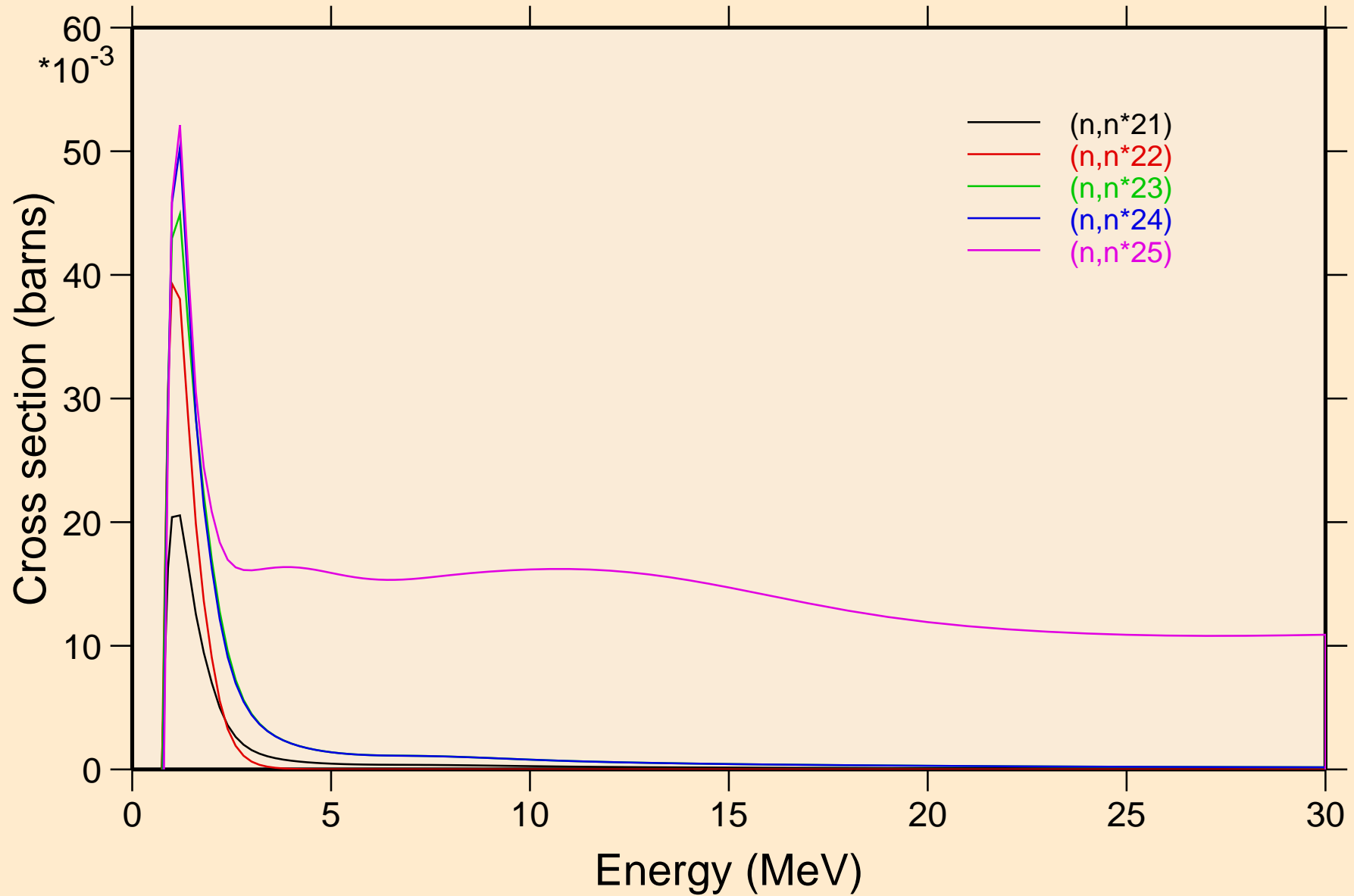


# U239 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

## Inelastic levels

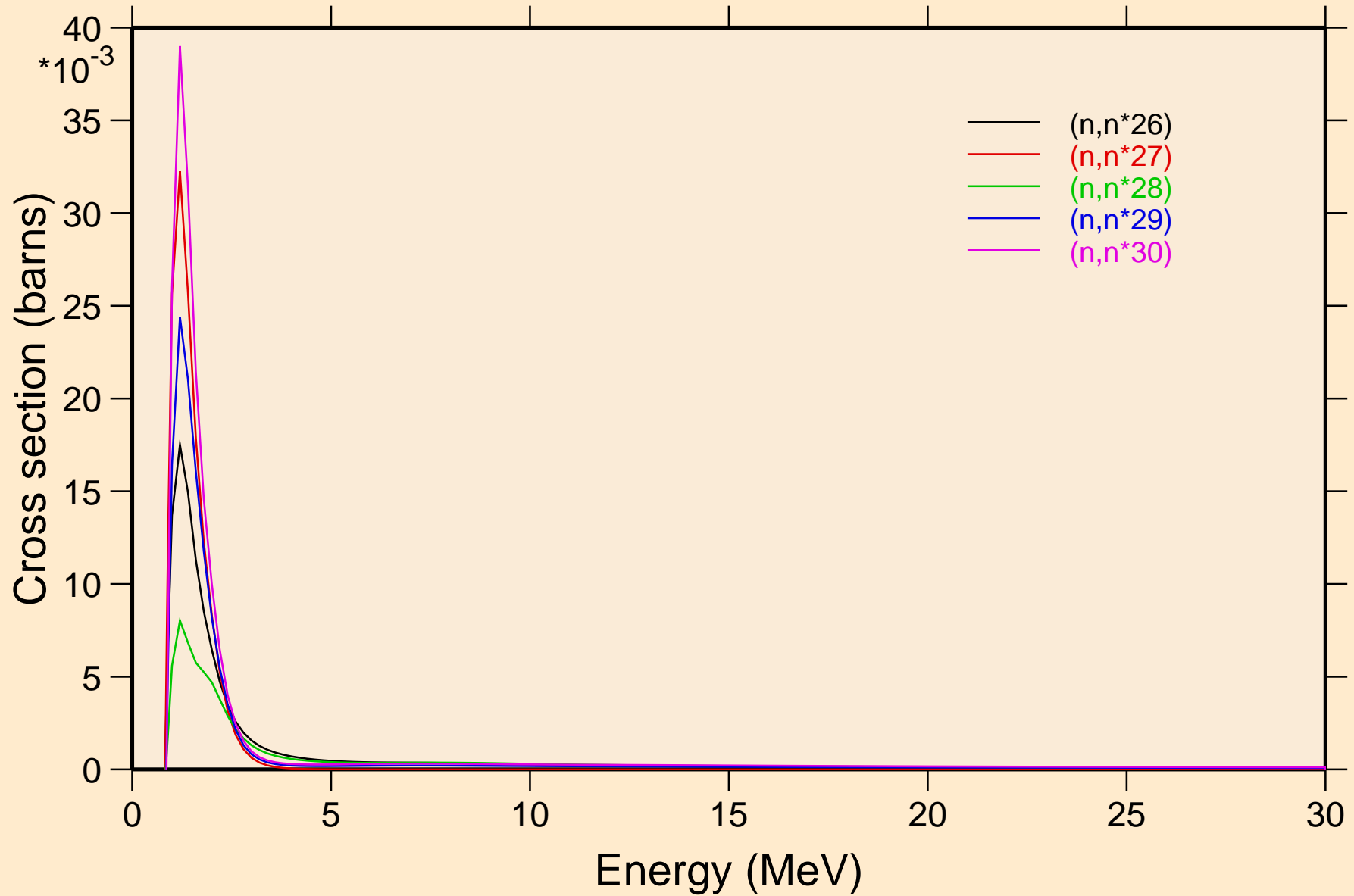


U239 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Inelastic levels



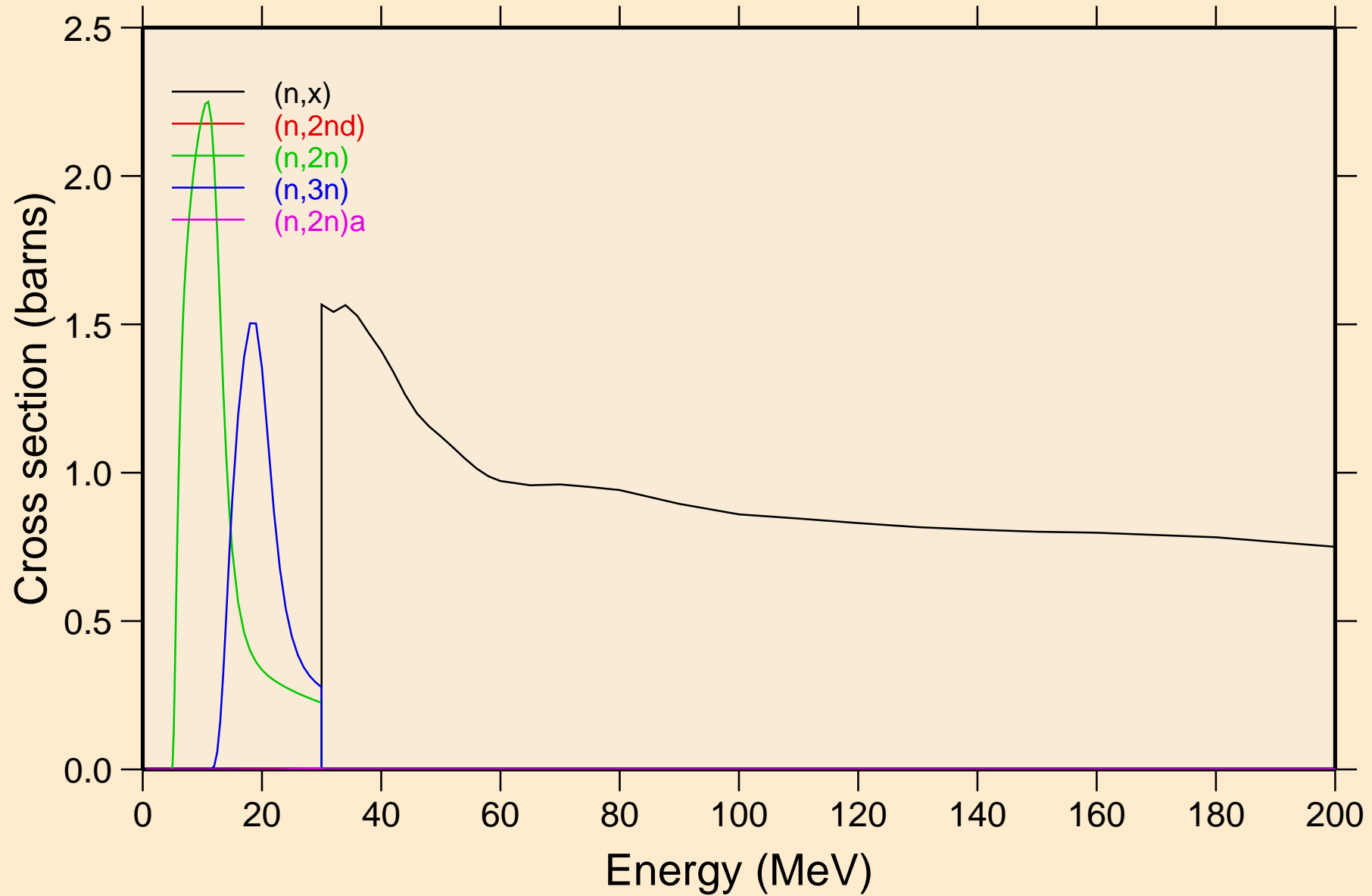
# U239 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

## Inelastic levels



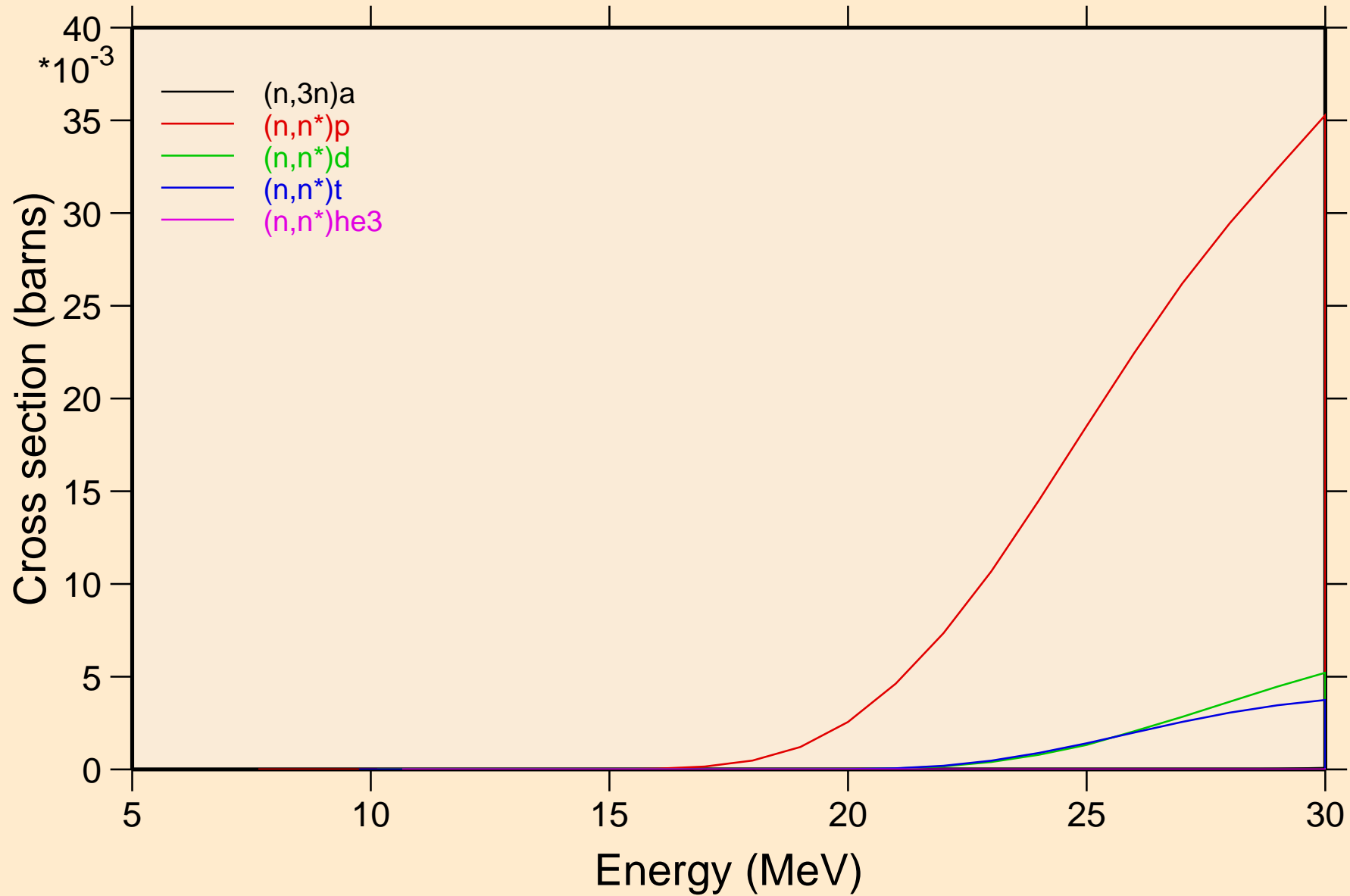
# U239 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

## Threshold reactions

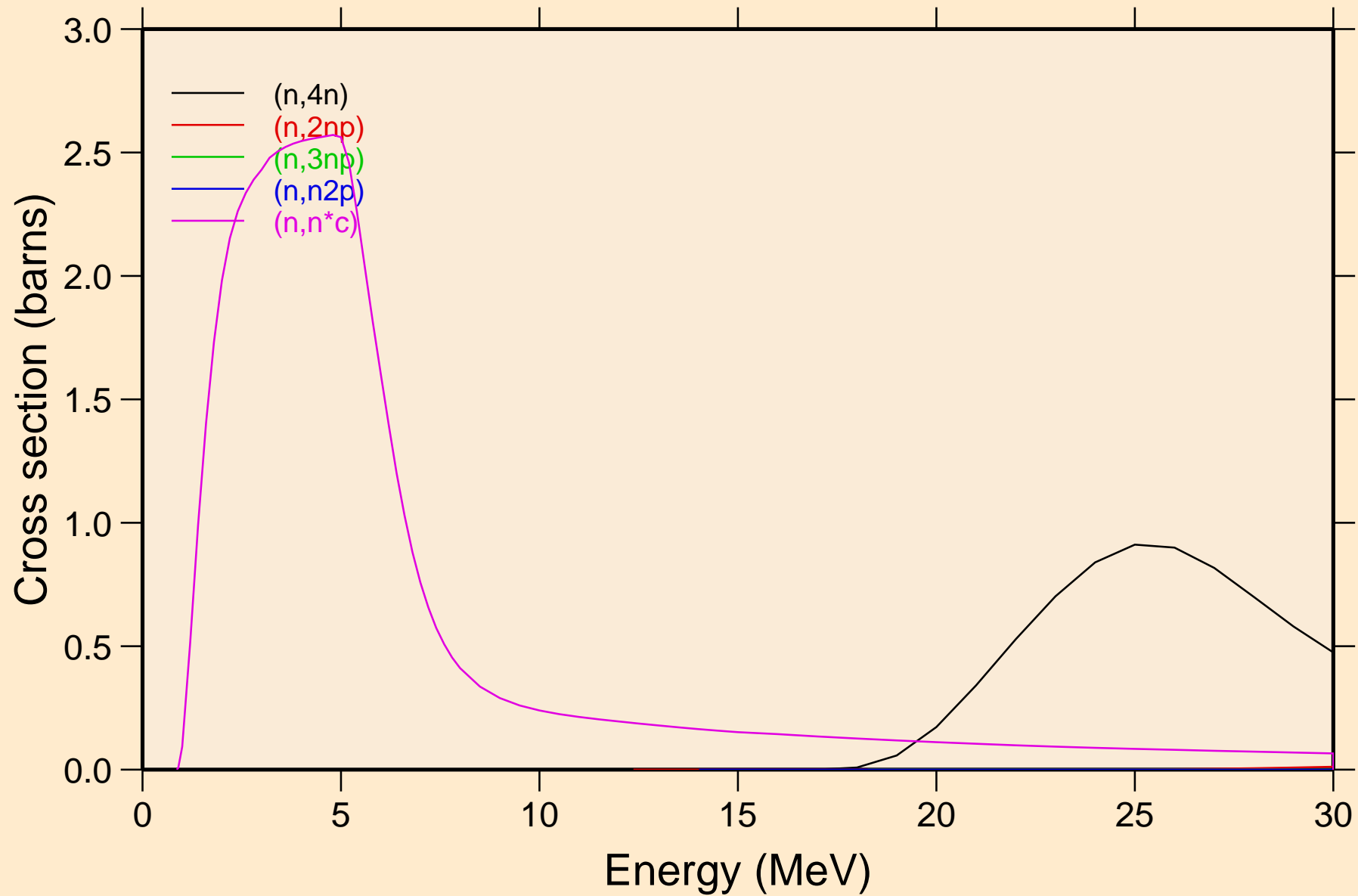


# U239 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

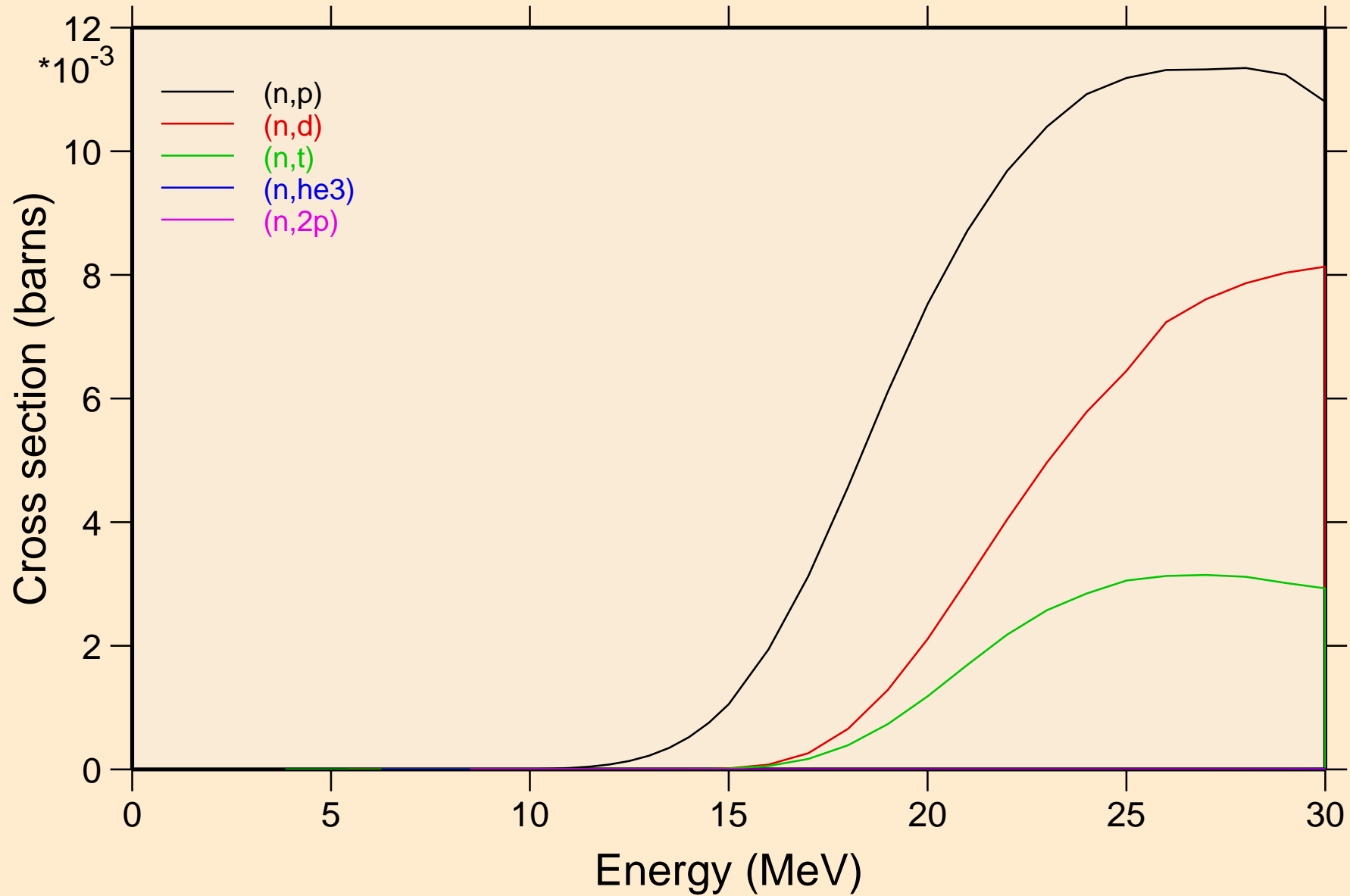
## Threshold reactions



U239 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Threshold reactions



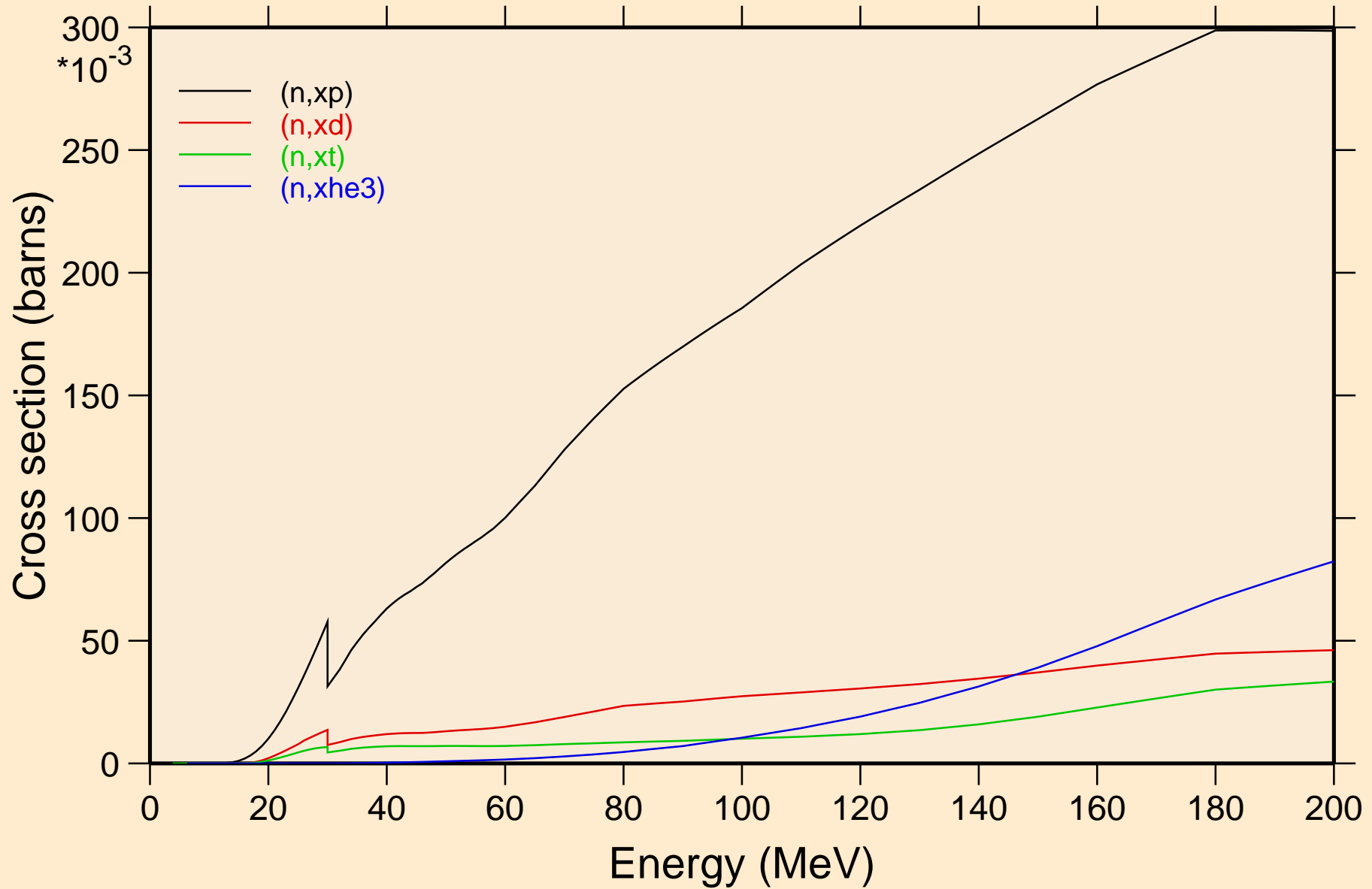
U239 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Threshold reactions



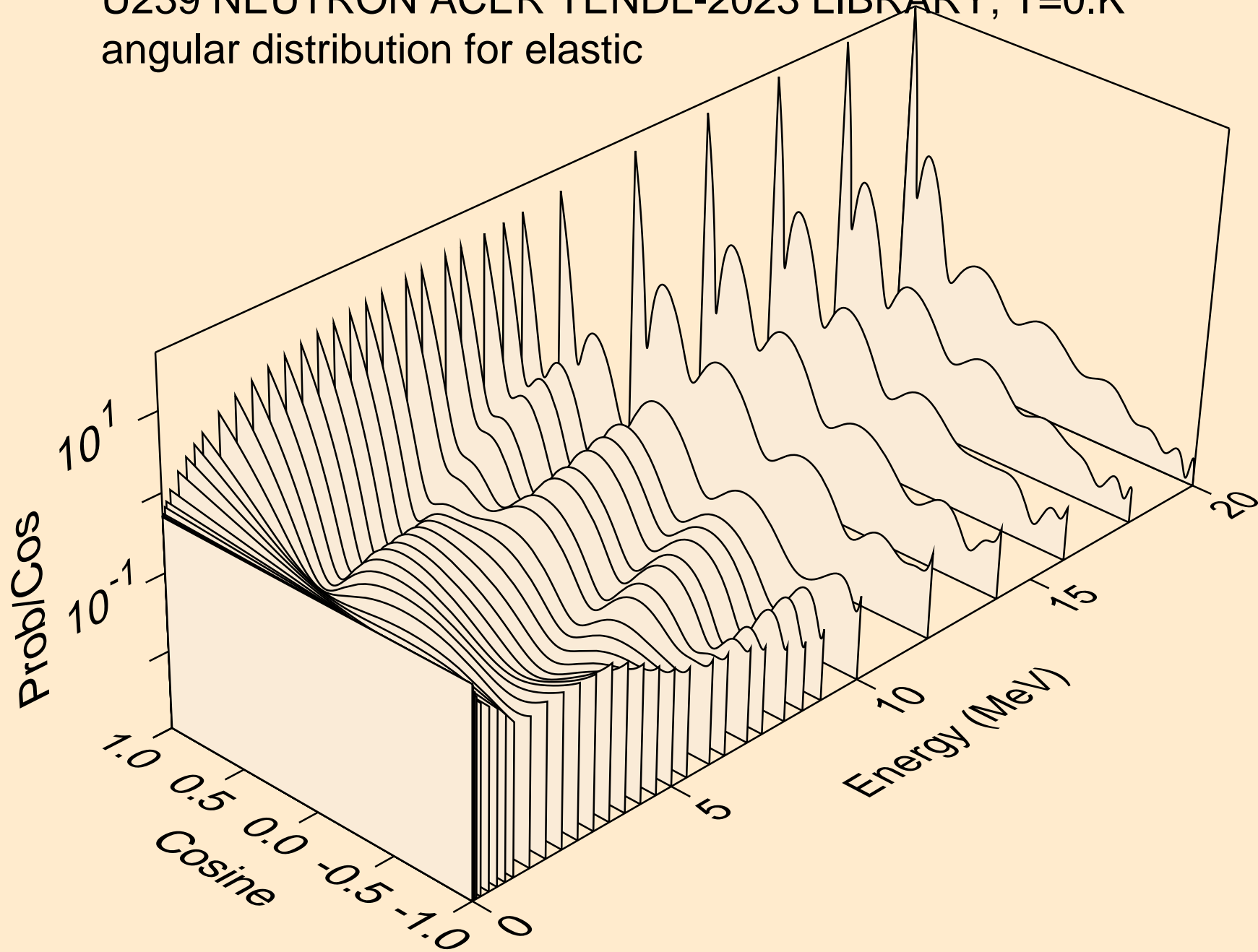


# U239 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

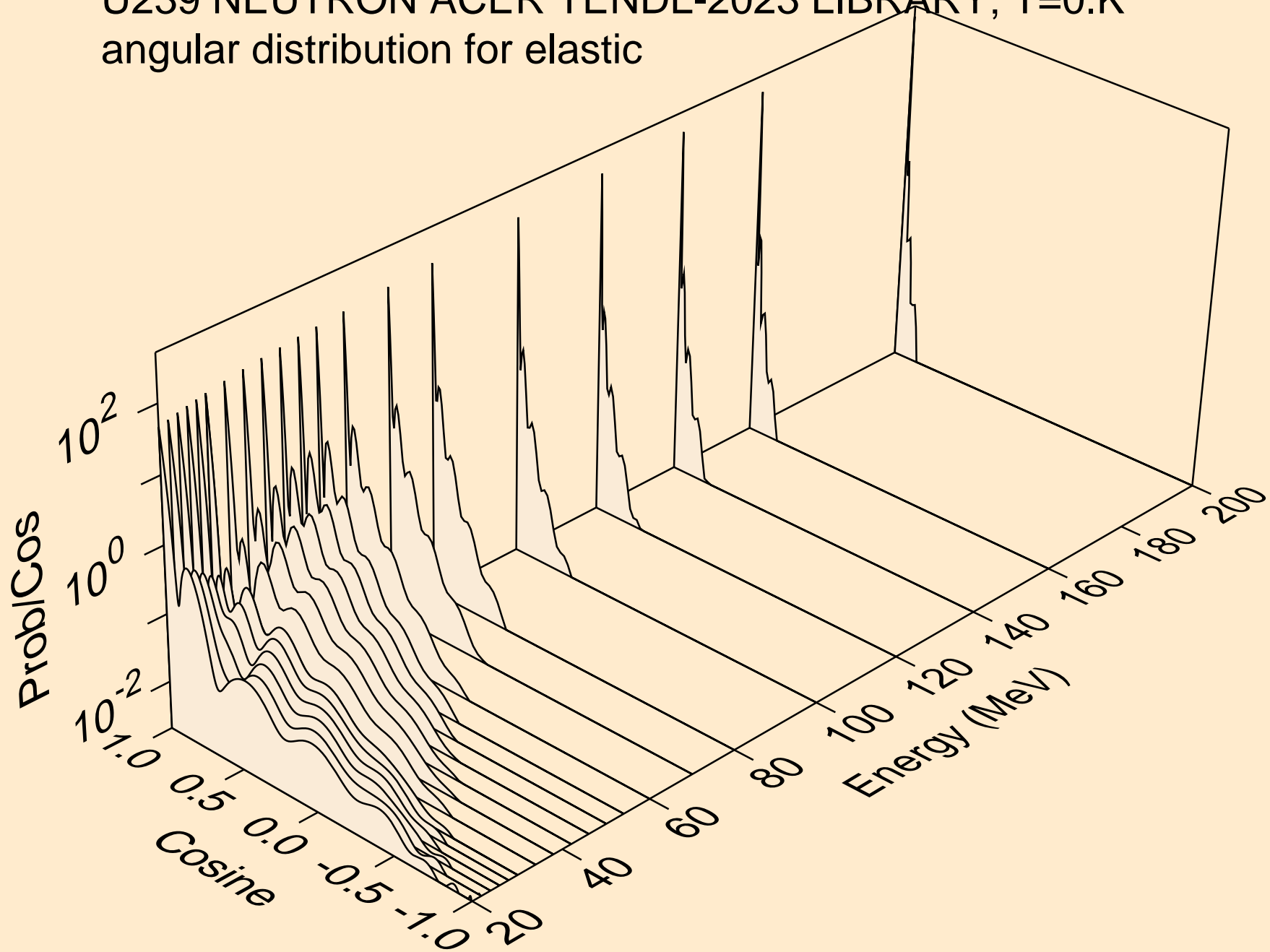
## Threshold reactions



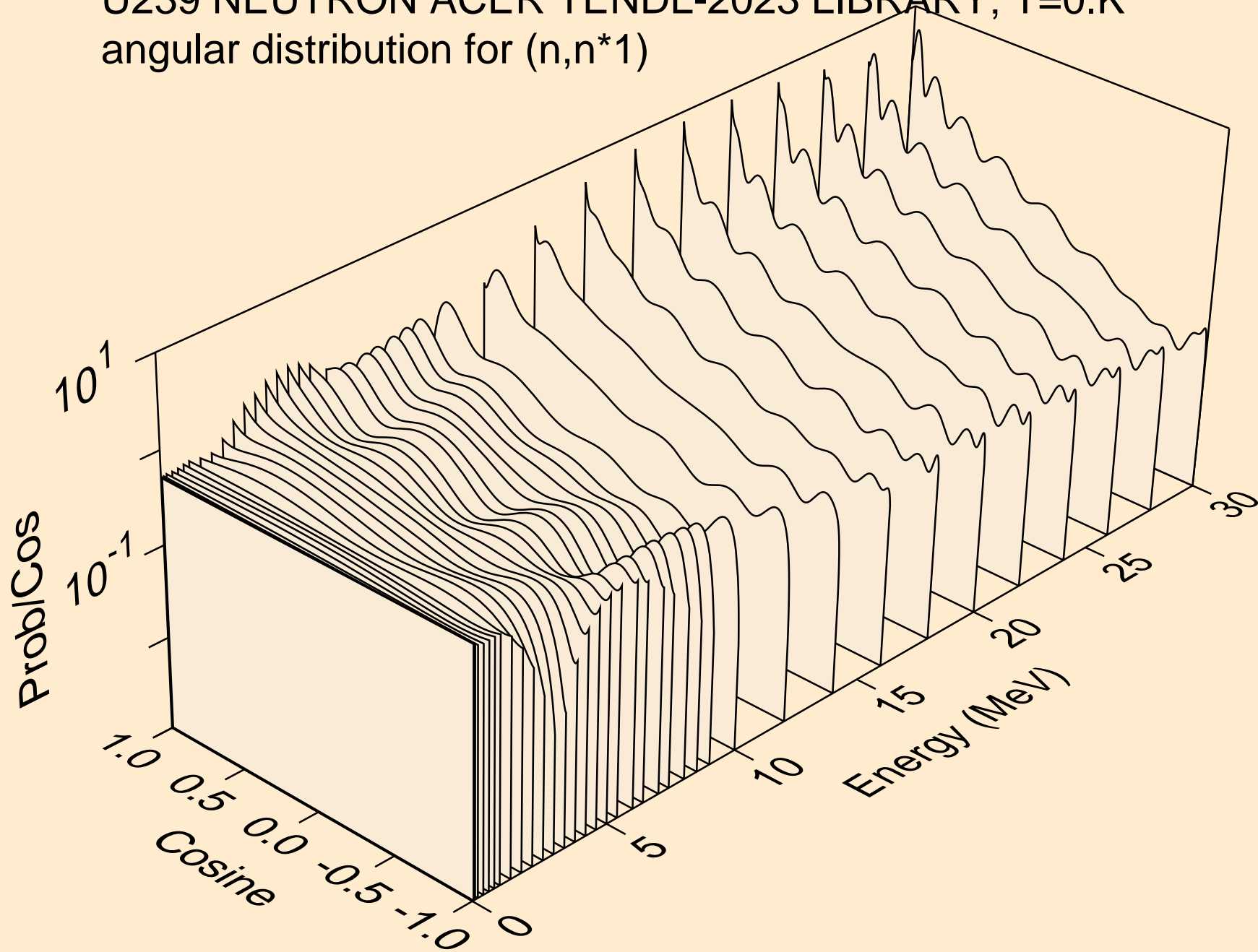
U239 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for elastic



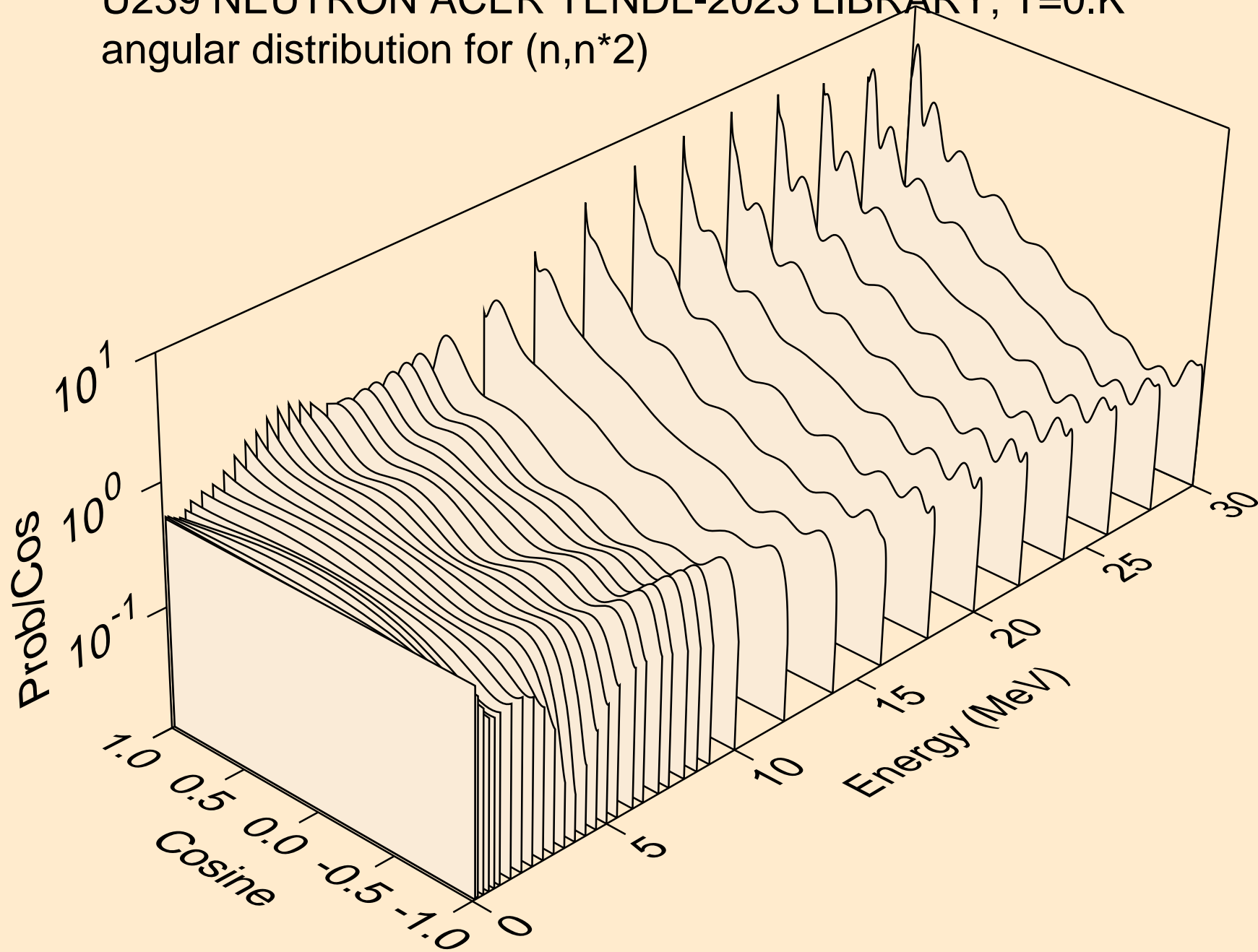
U239 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for elastic



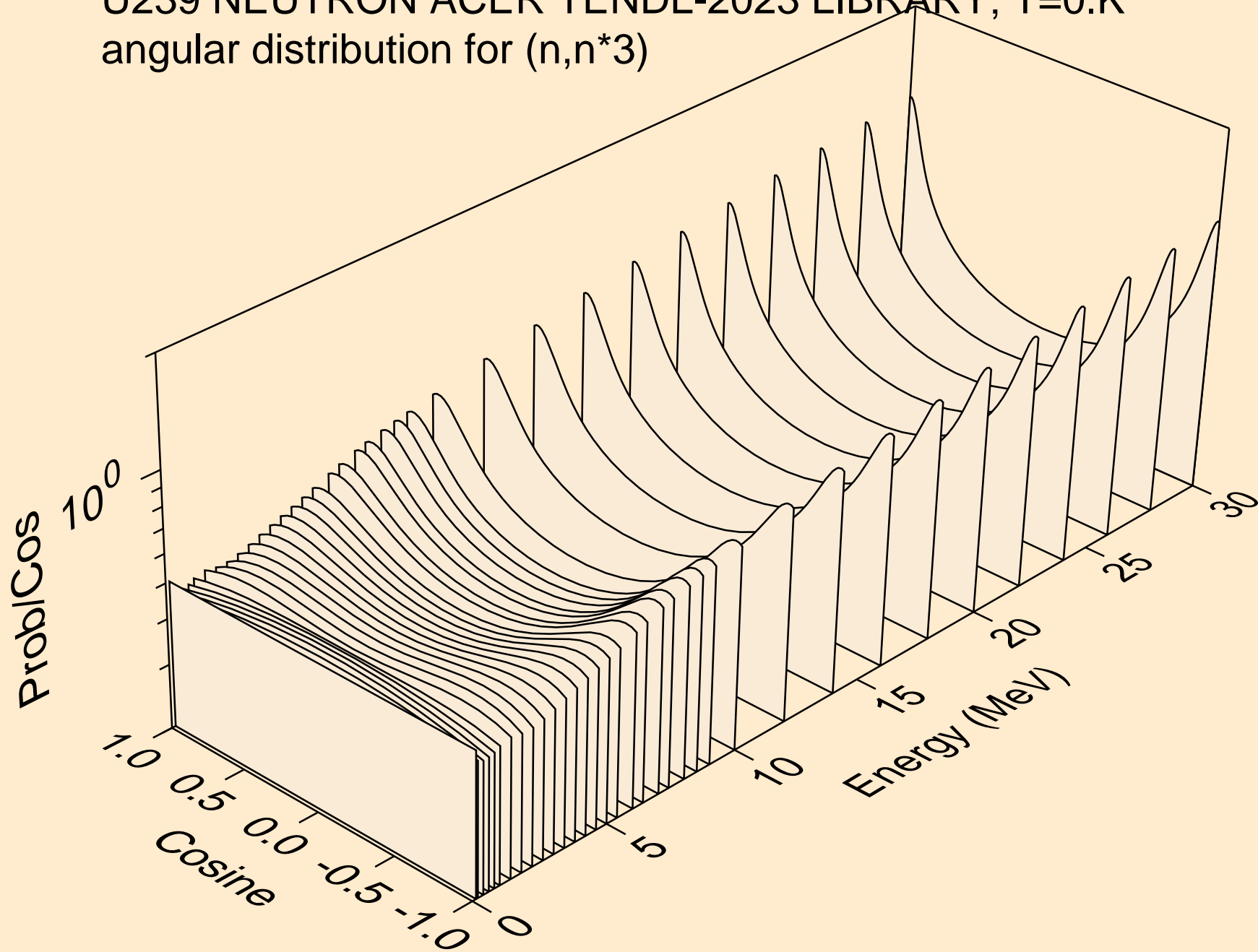
U239 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*1)



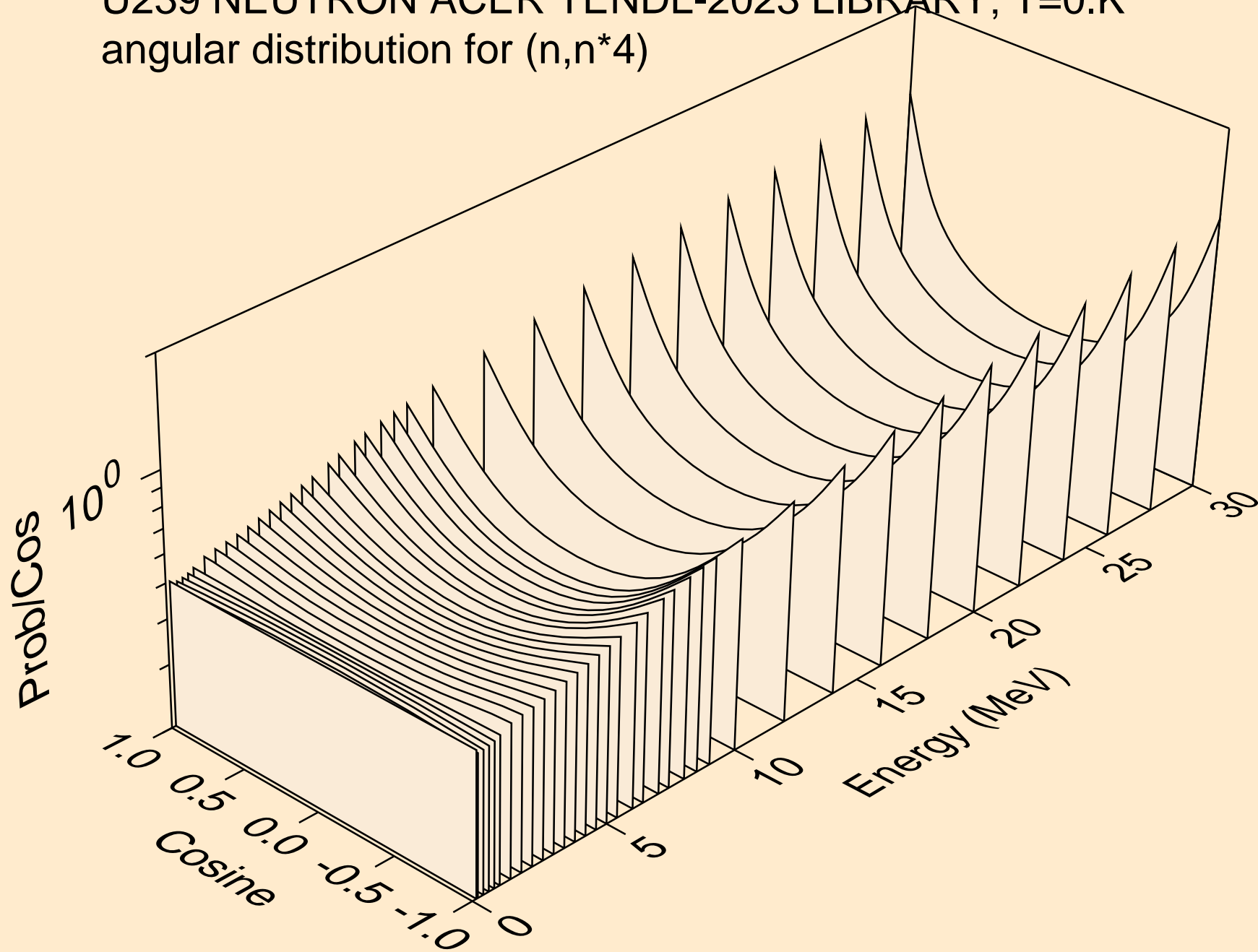
U239 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*2)



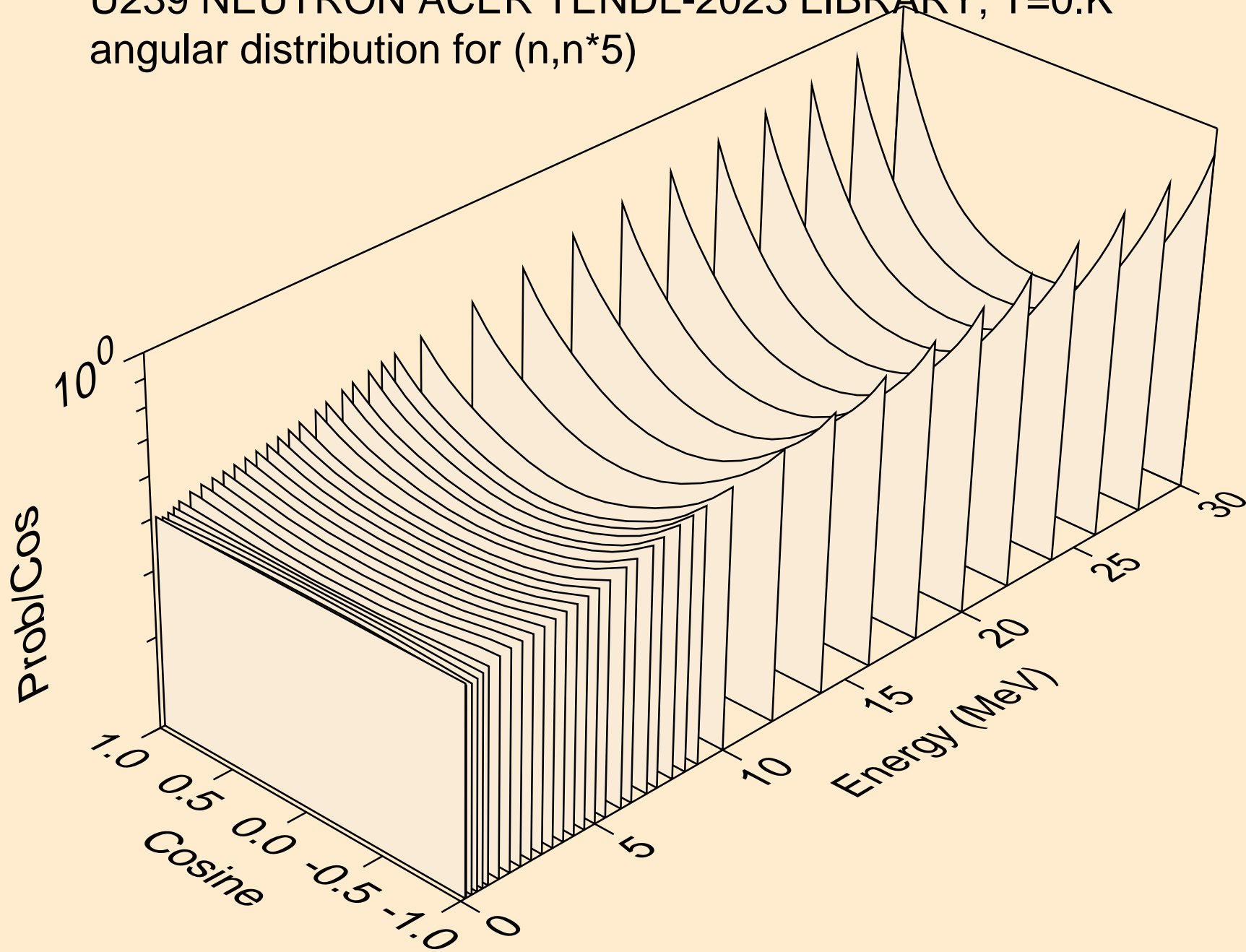
U239 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*3)



U239 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*4)

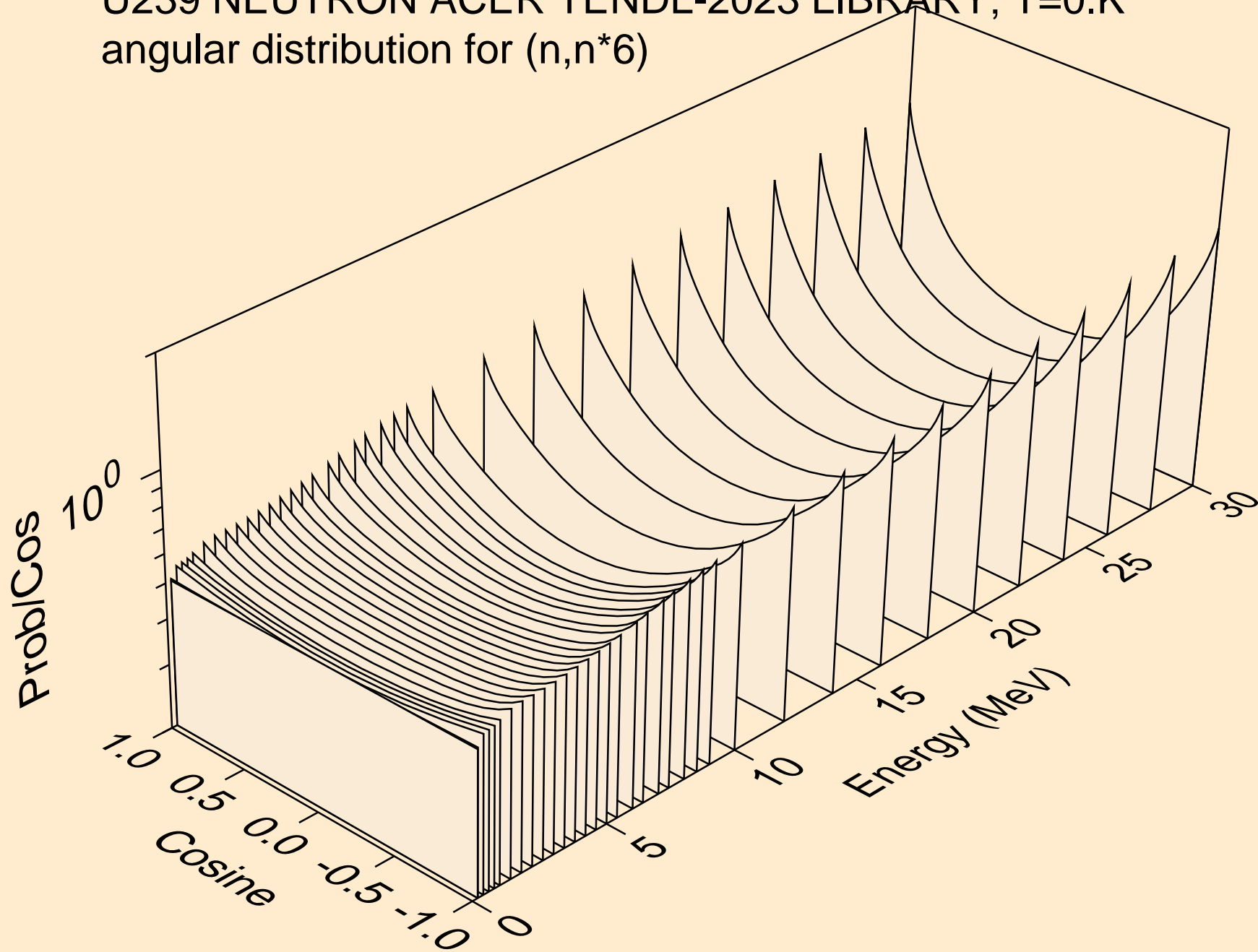


U239 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*5)

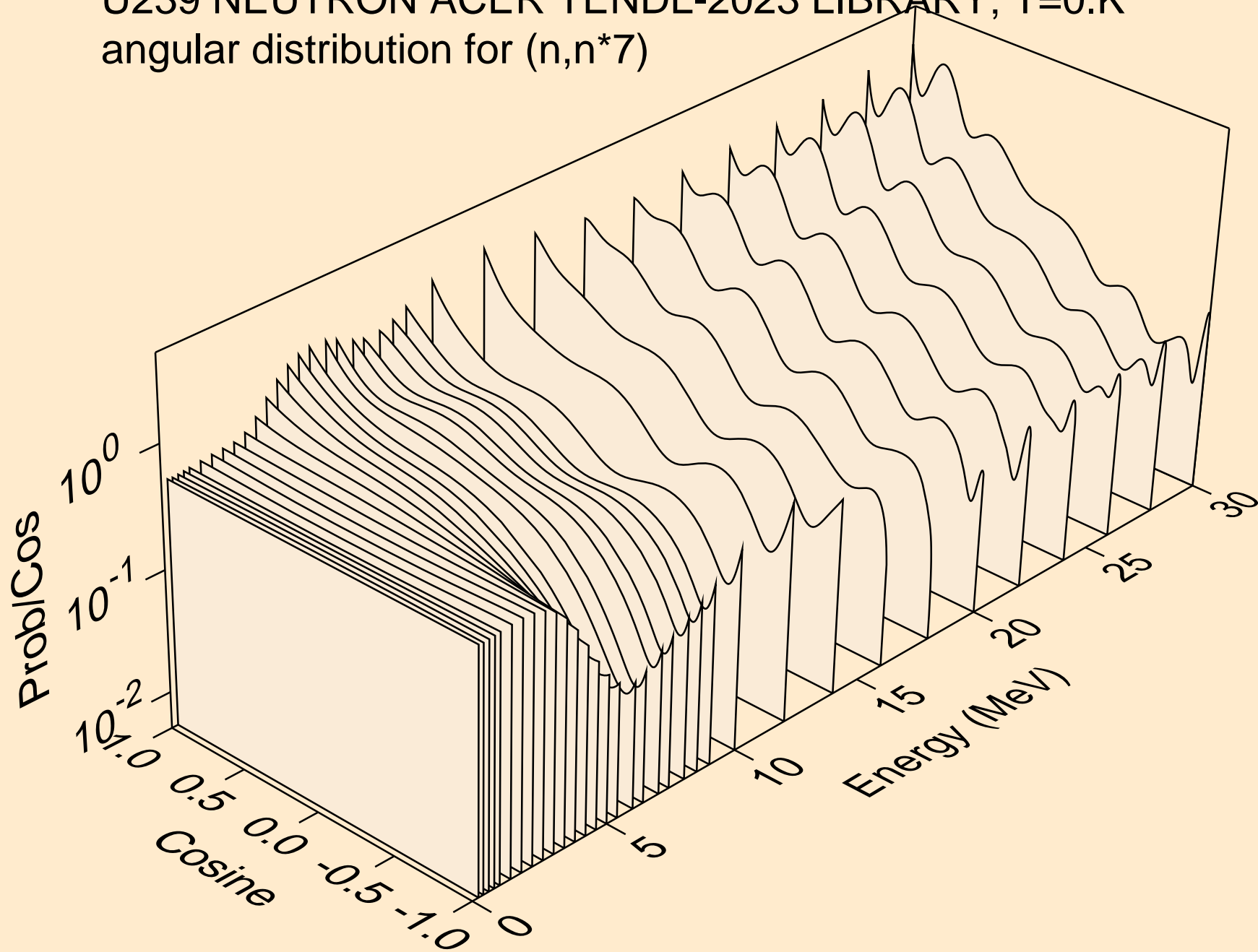




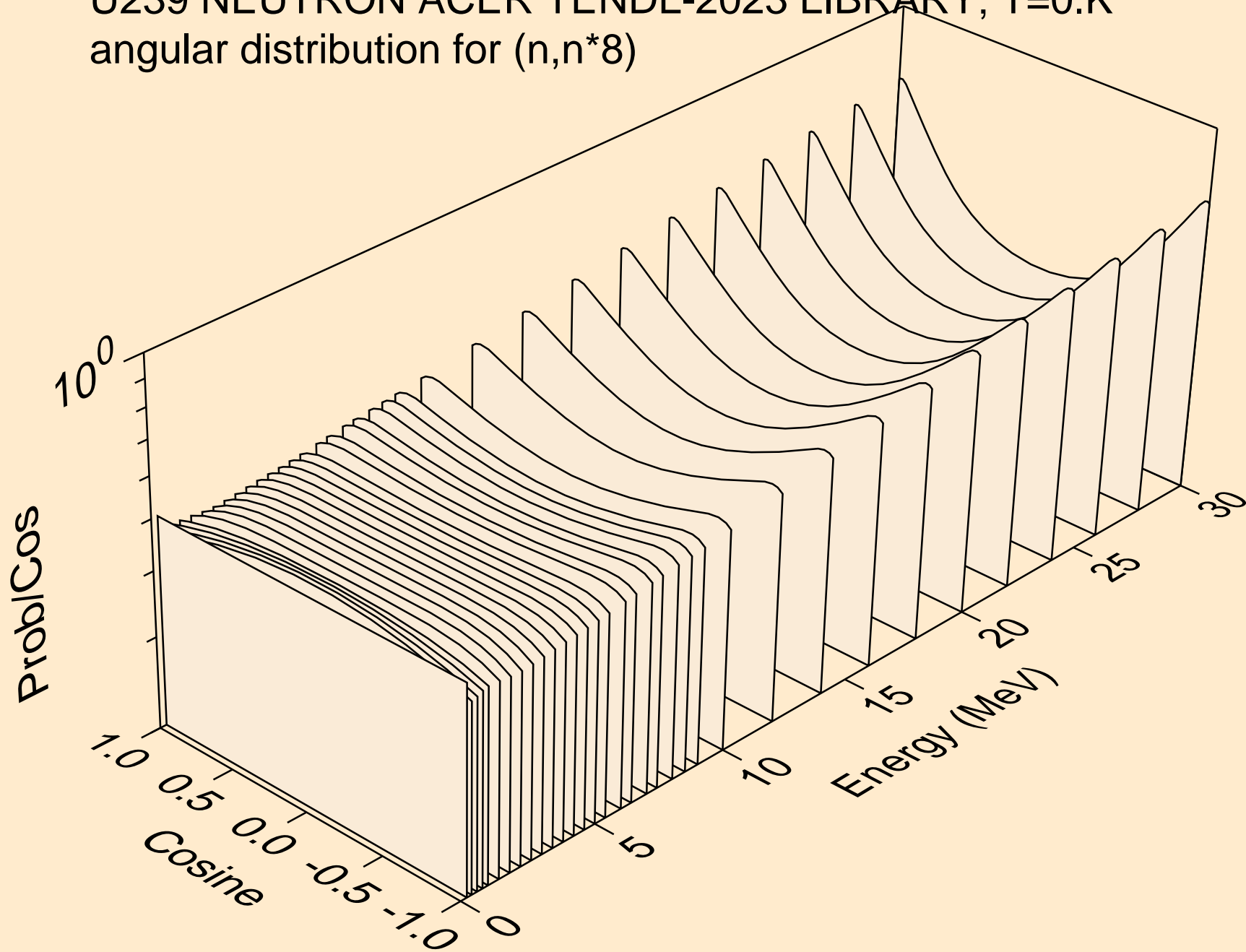
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angular distribution for (n,n\*6)



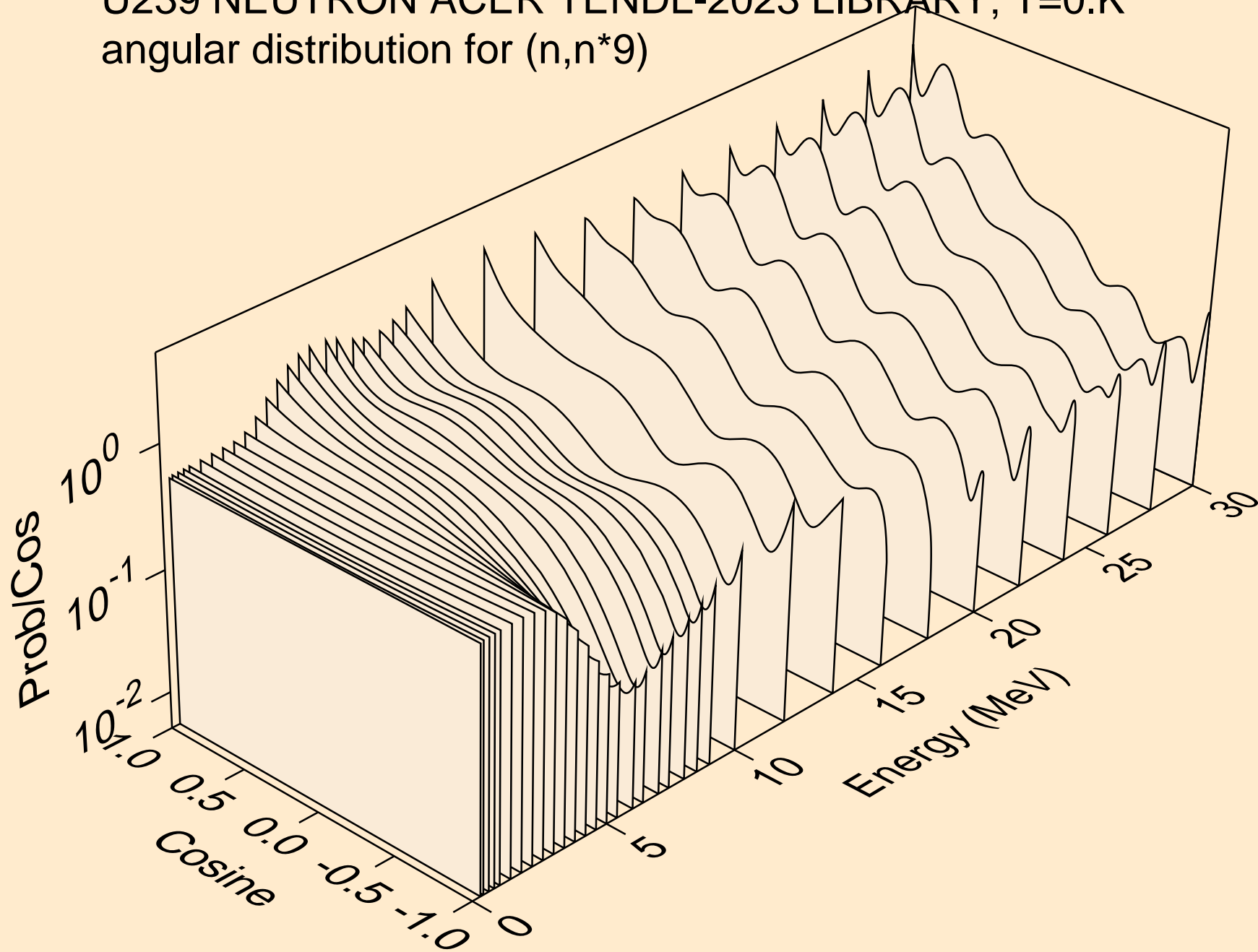
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angular distribution for (n,n\*7)



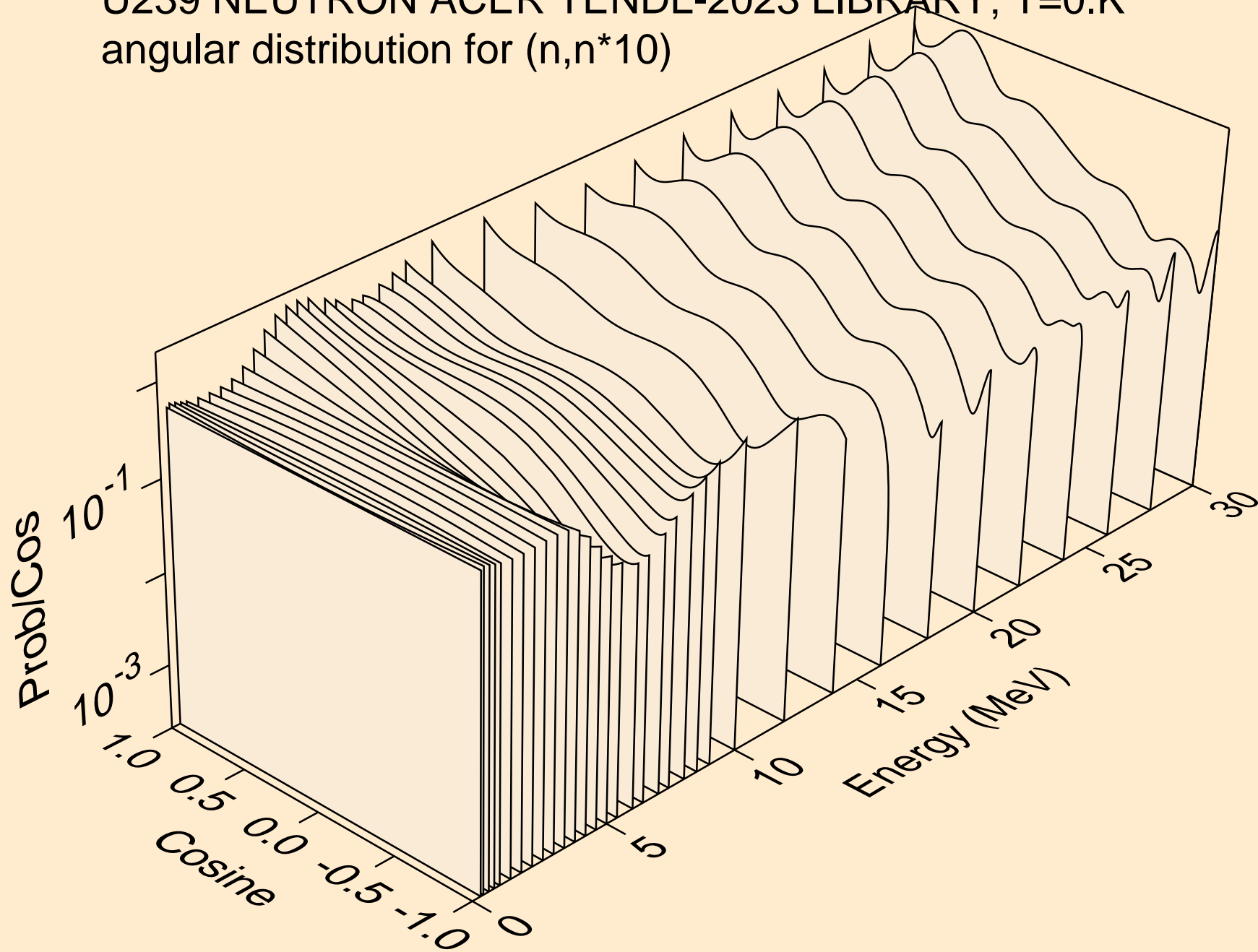
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angular distribution for (n,n\*8)



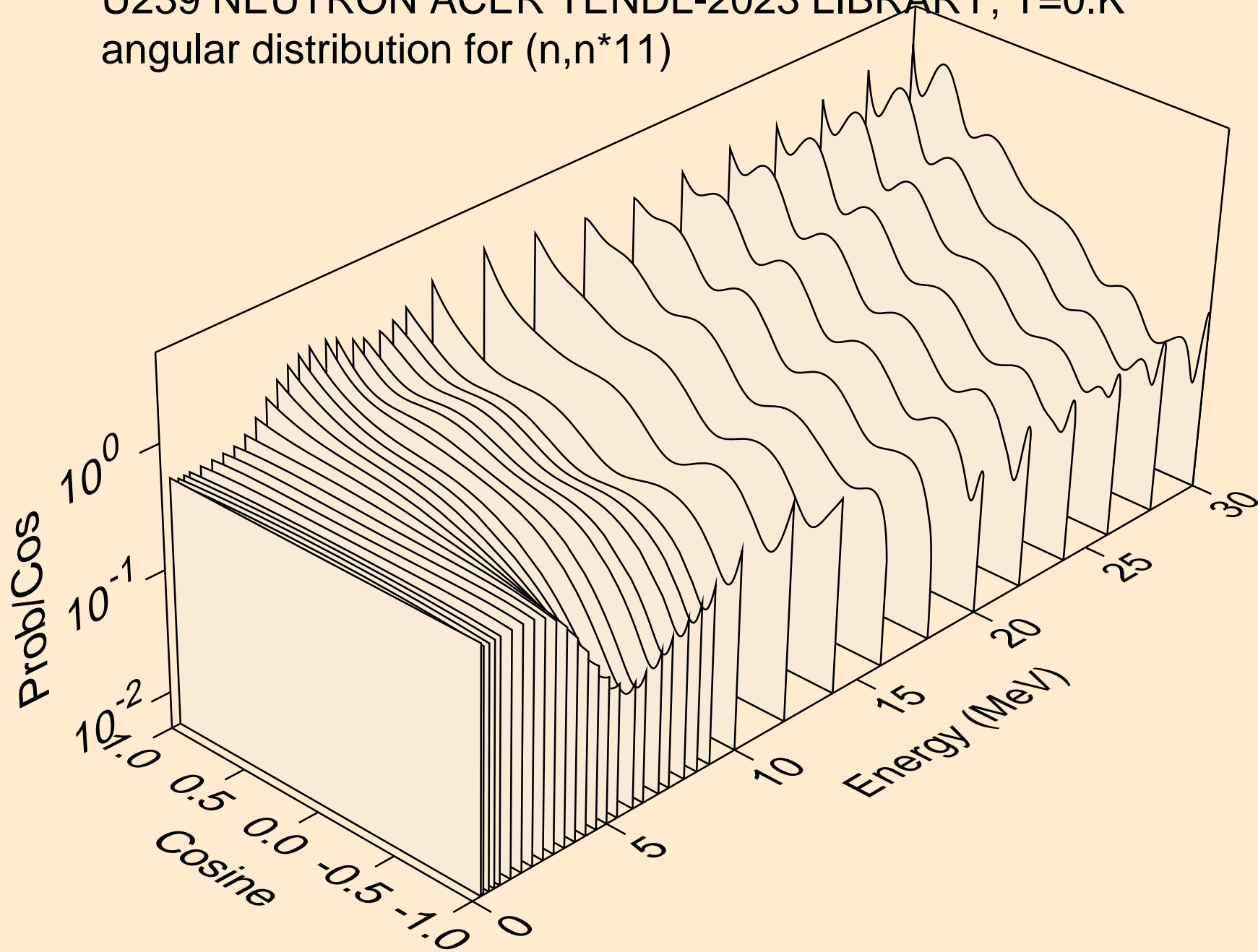
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angular distribution for (n,n\*9)



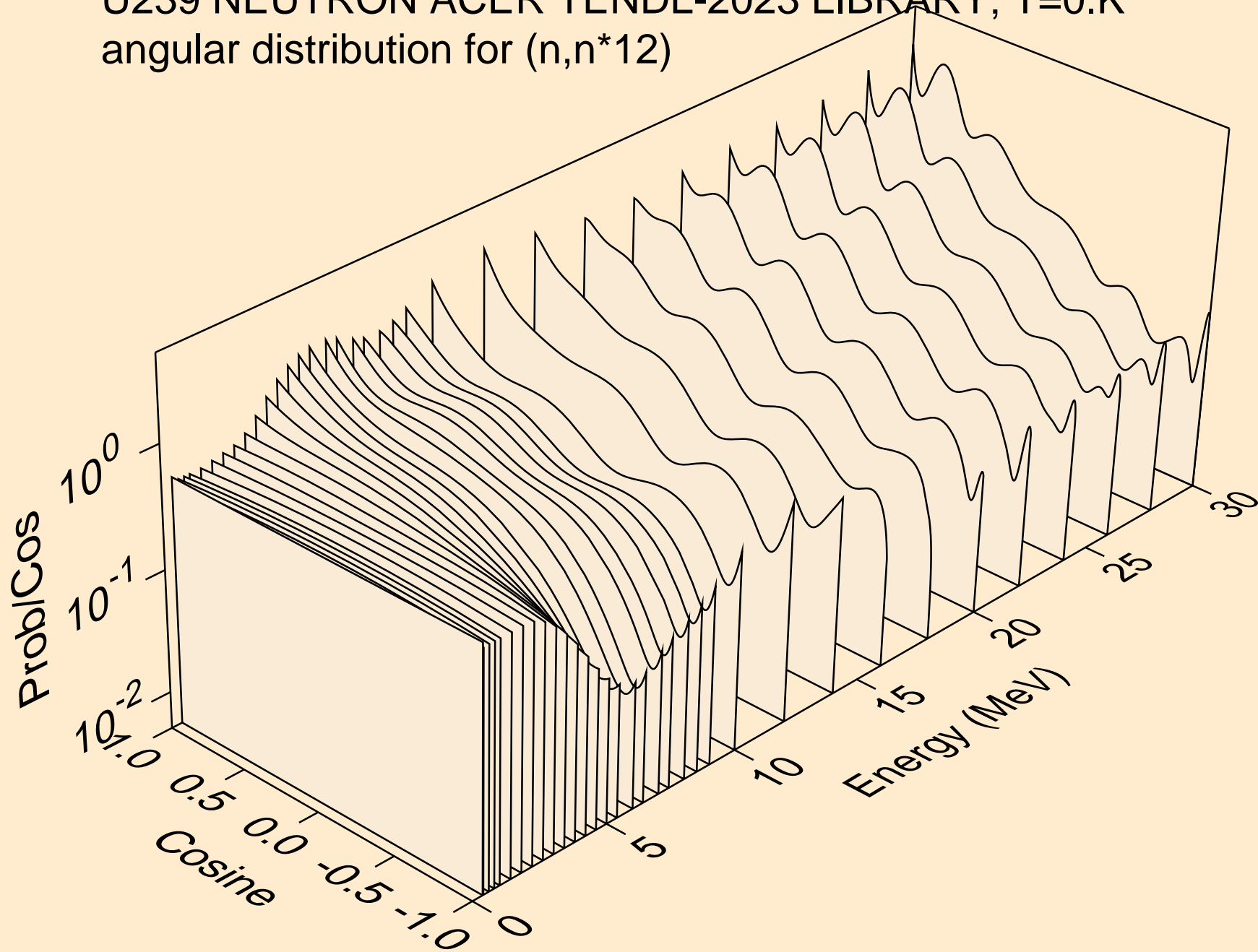
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angular distribution for (n,n\*10)



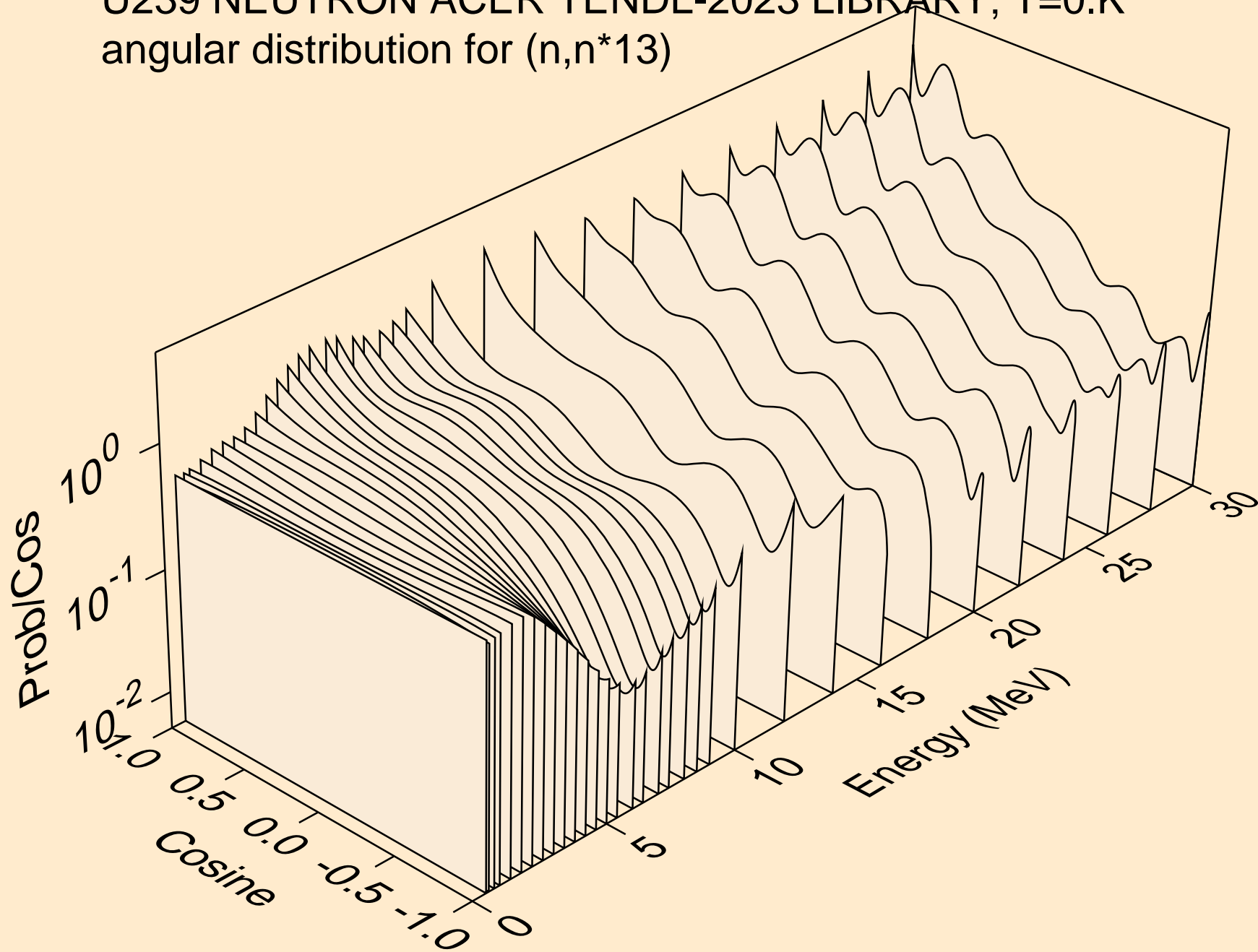
U239 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*11)



U239 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*12)

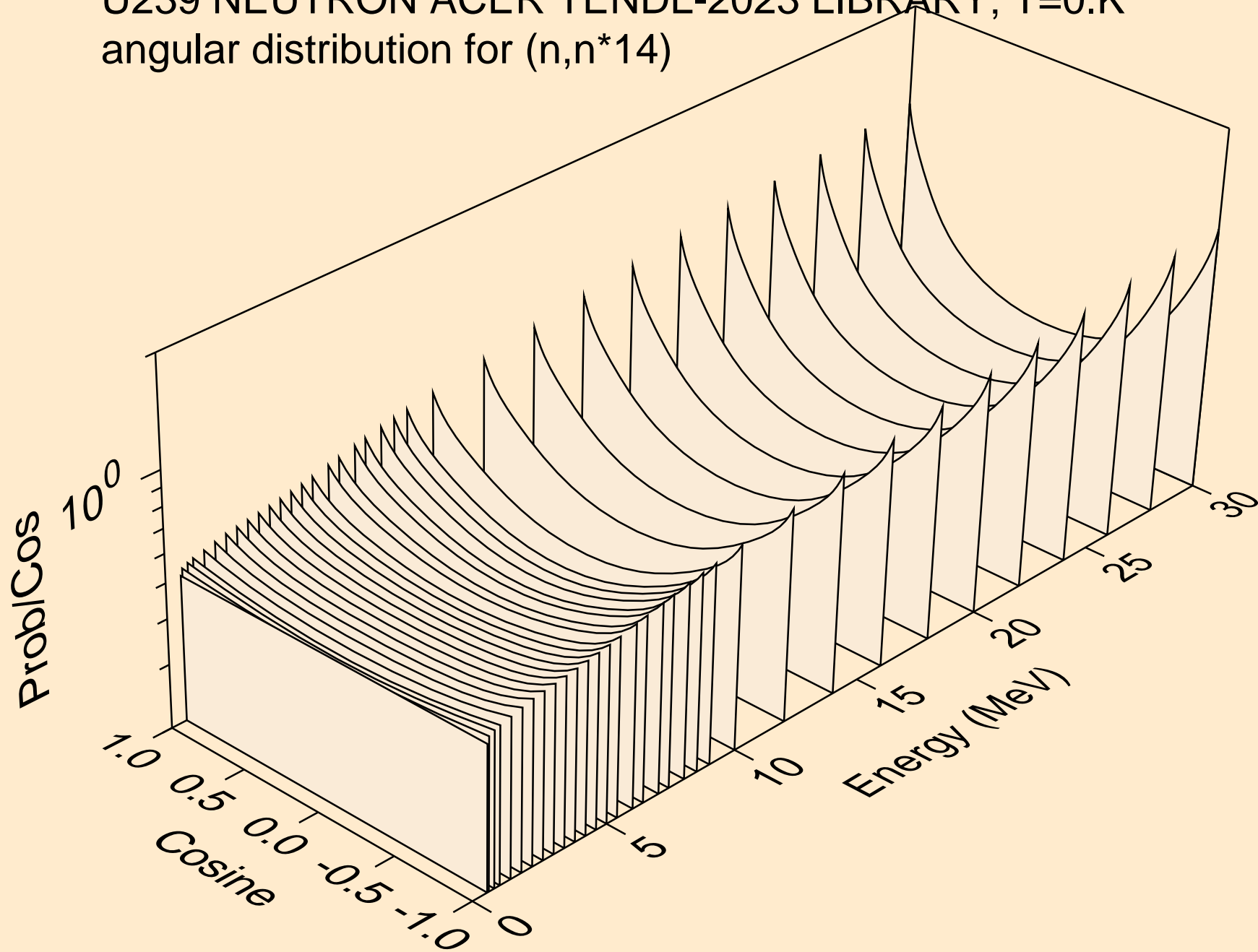


U239 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*13)

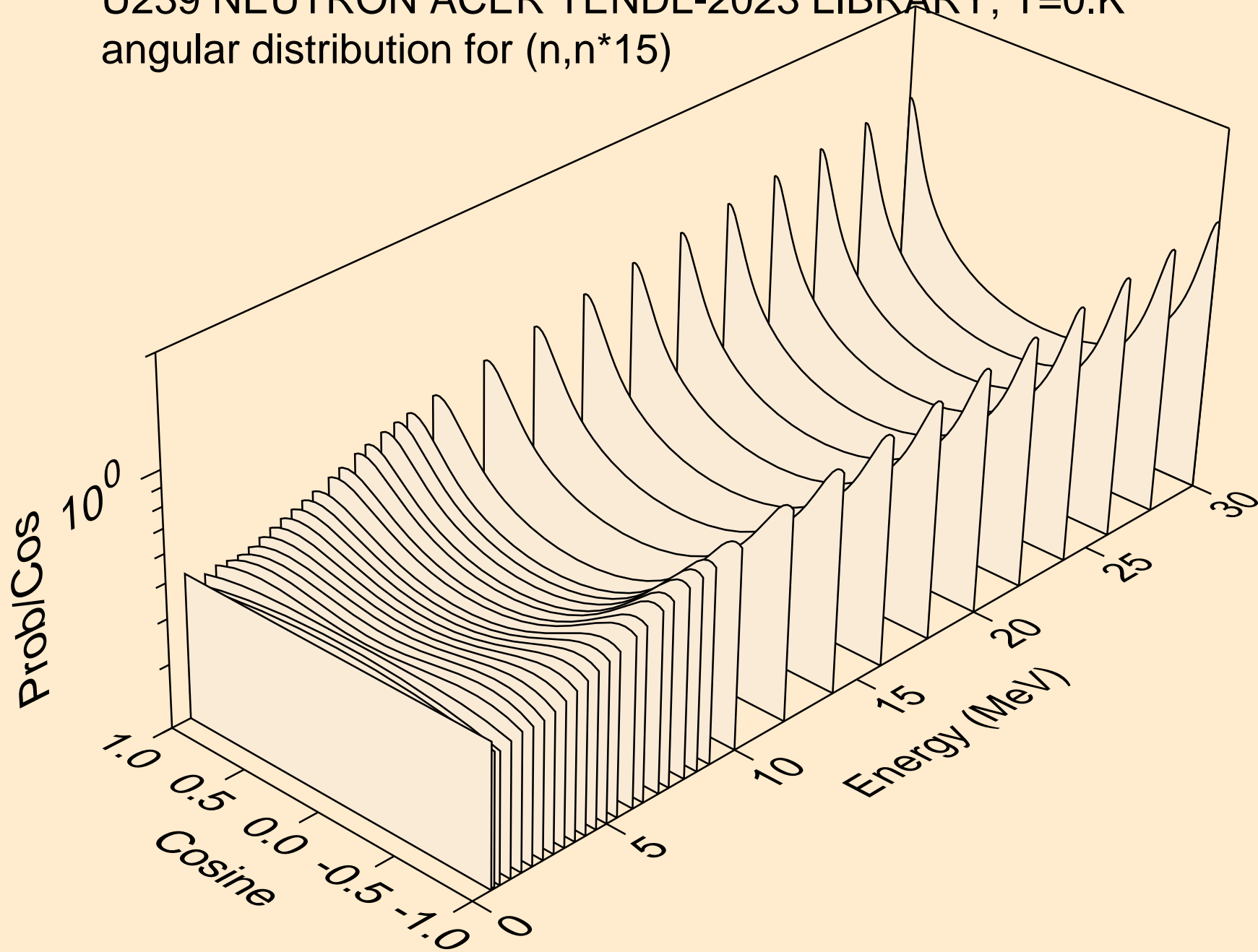




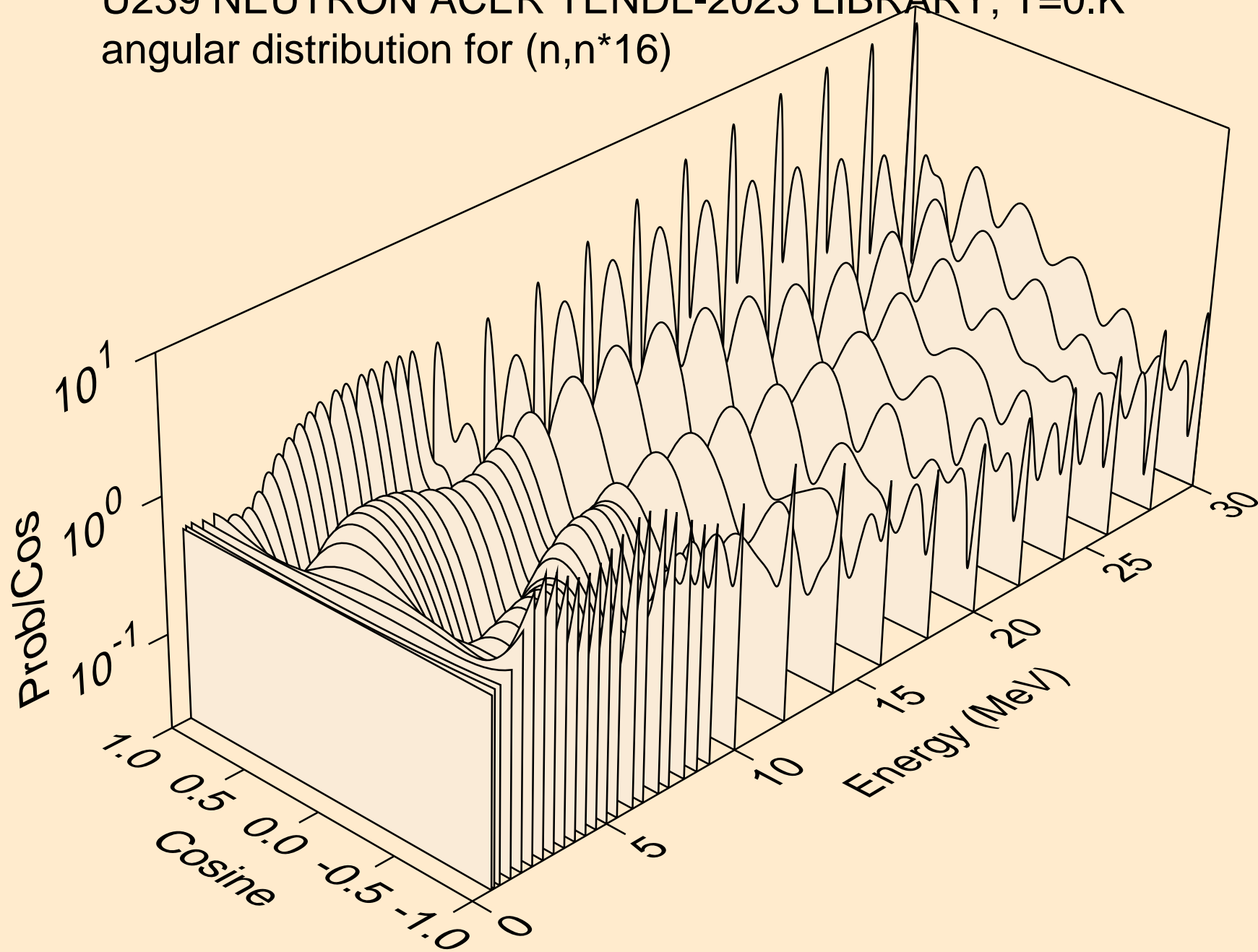
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angular distribution for (n,n\*14)



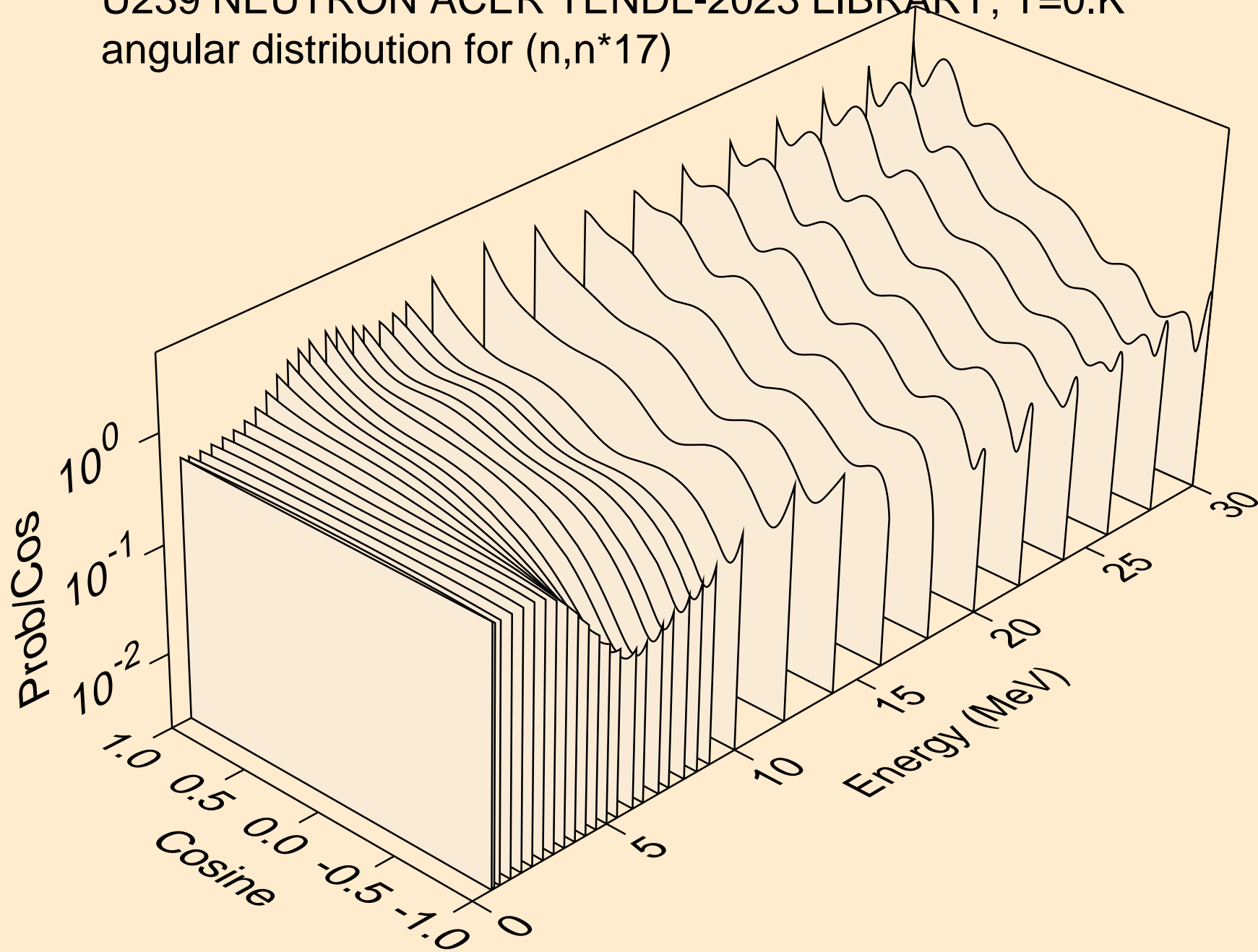
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angular distribution for (n,n\*15)



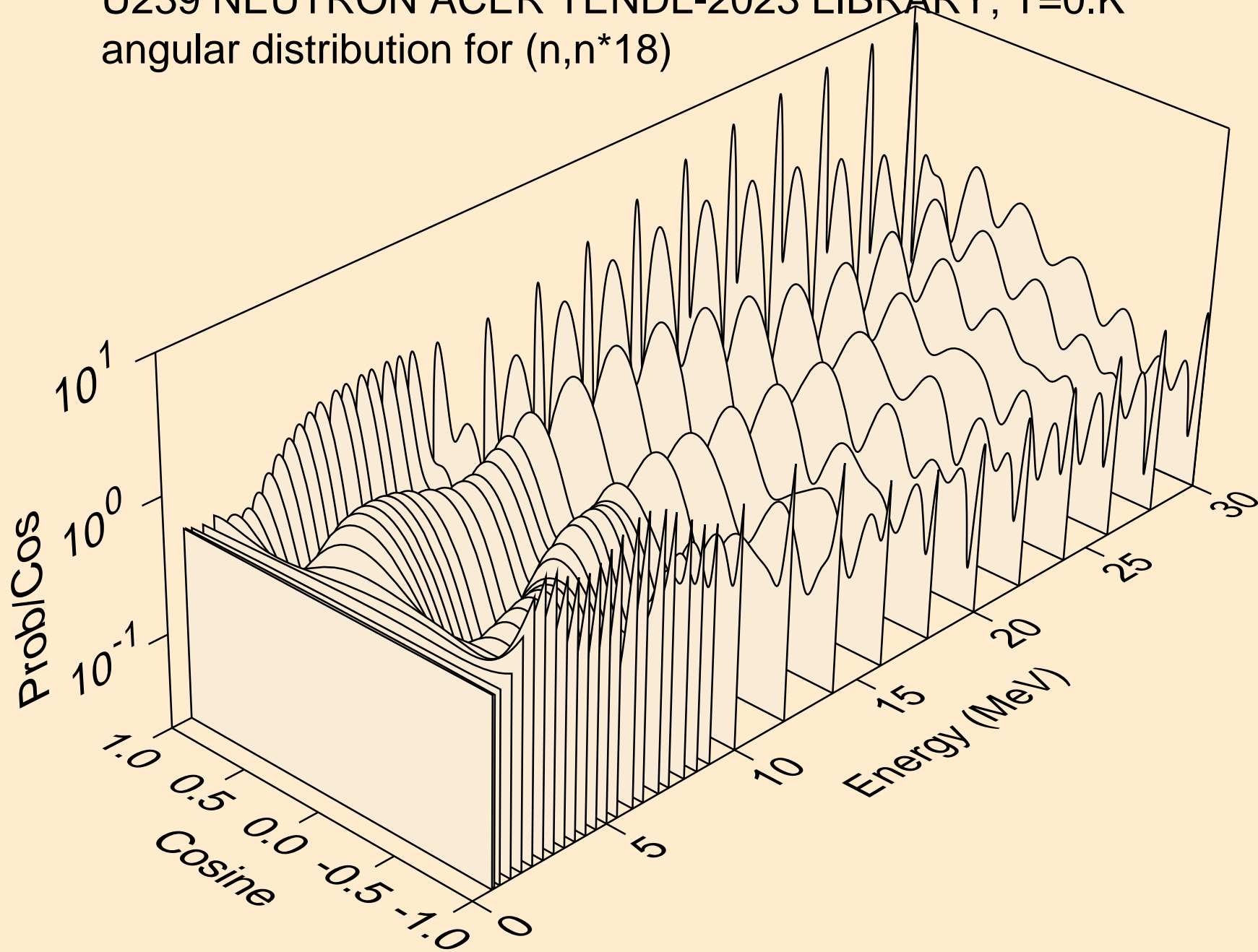
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angular distribution for (n,n\*16)



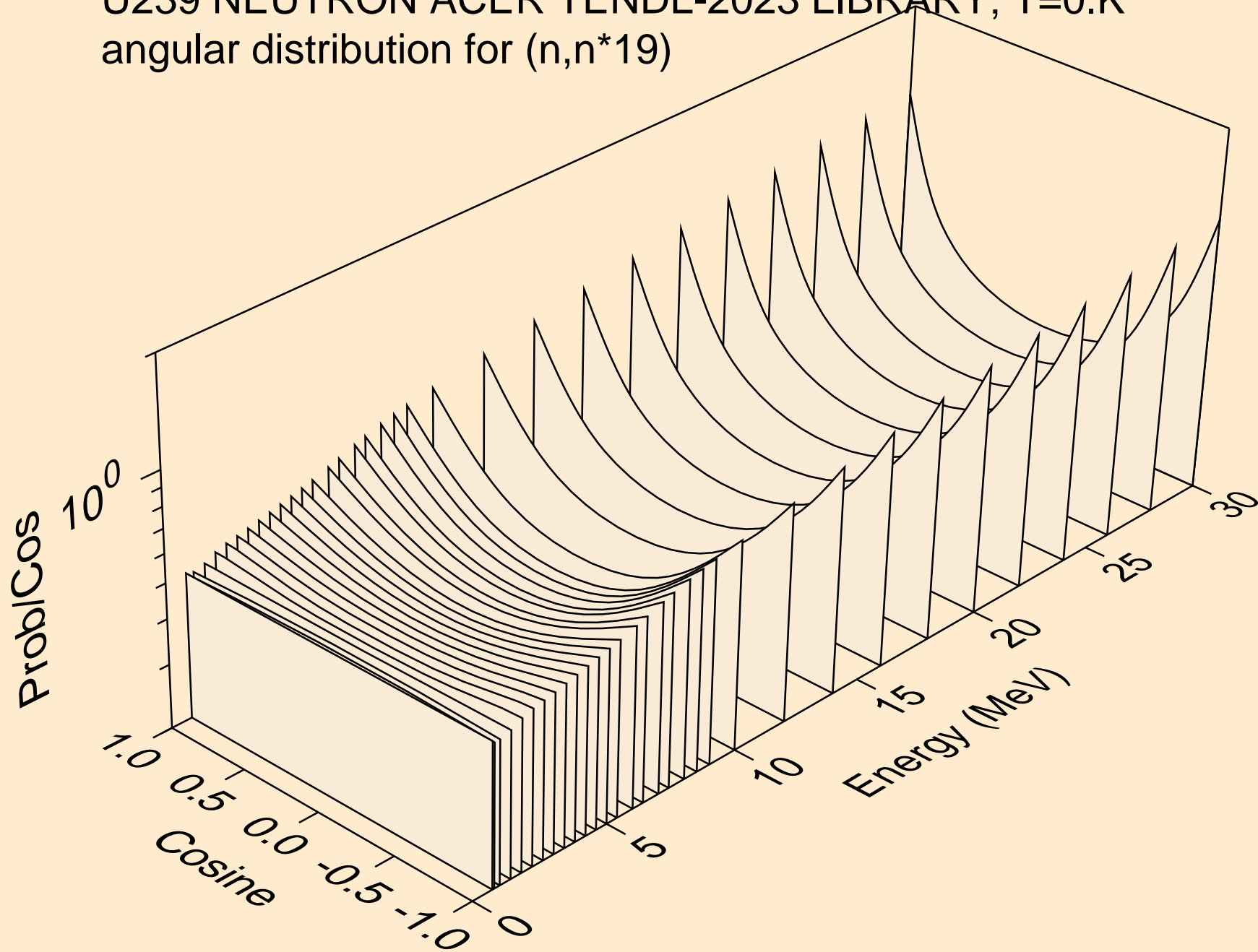
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angular distribution for (n,n\*17)



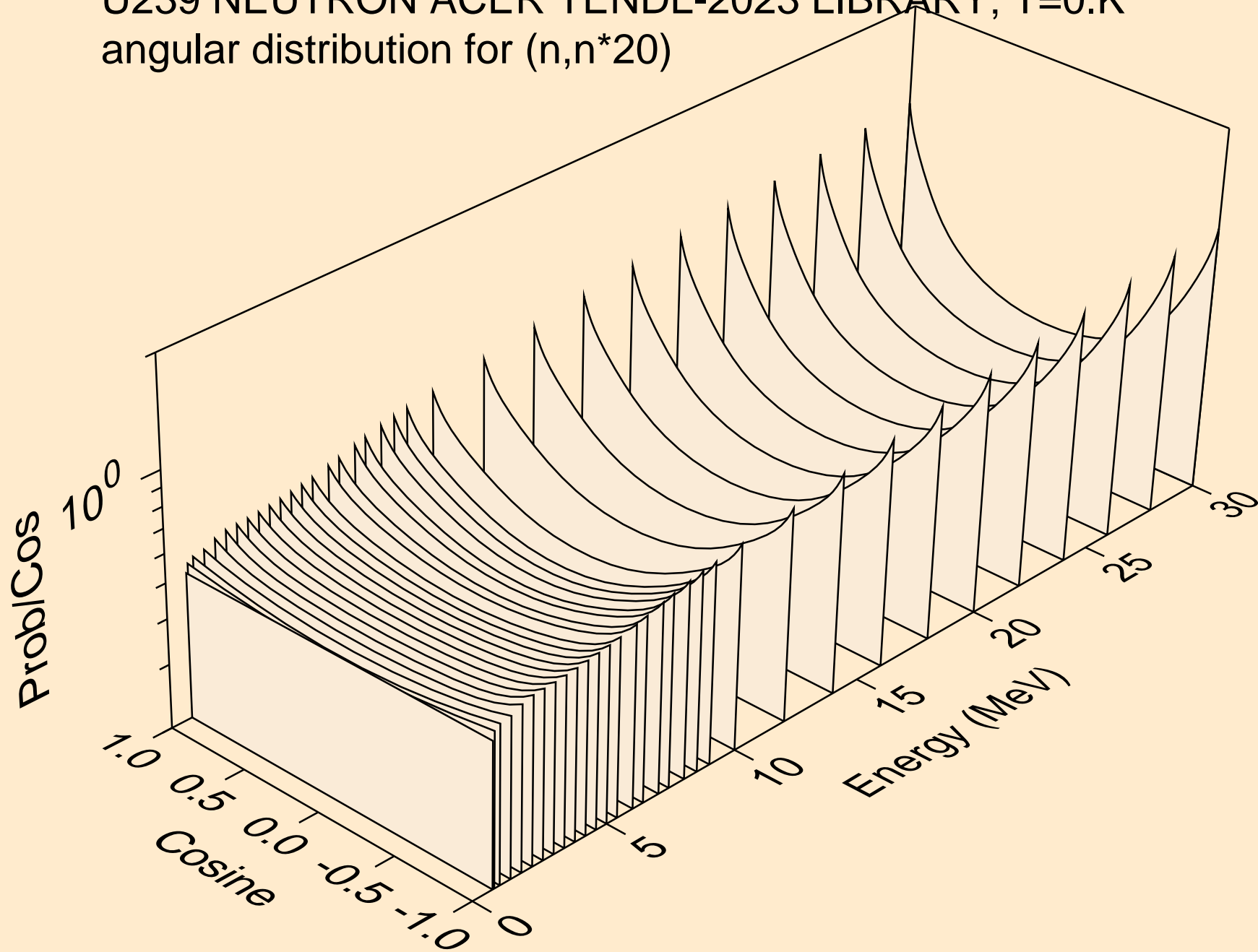
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angular distribution for (n,n\*18)



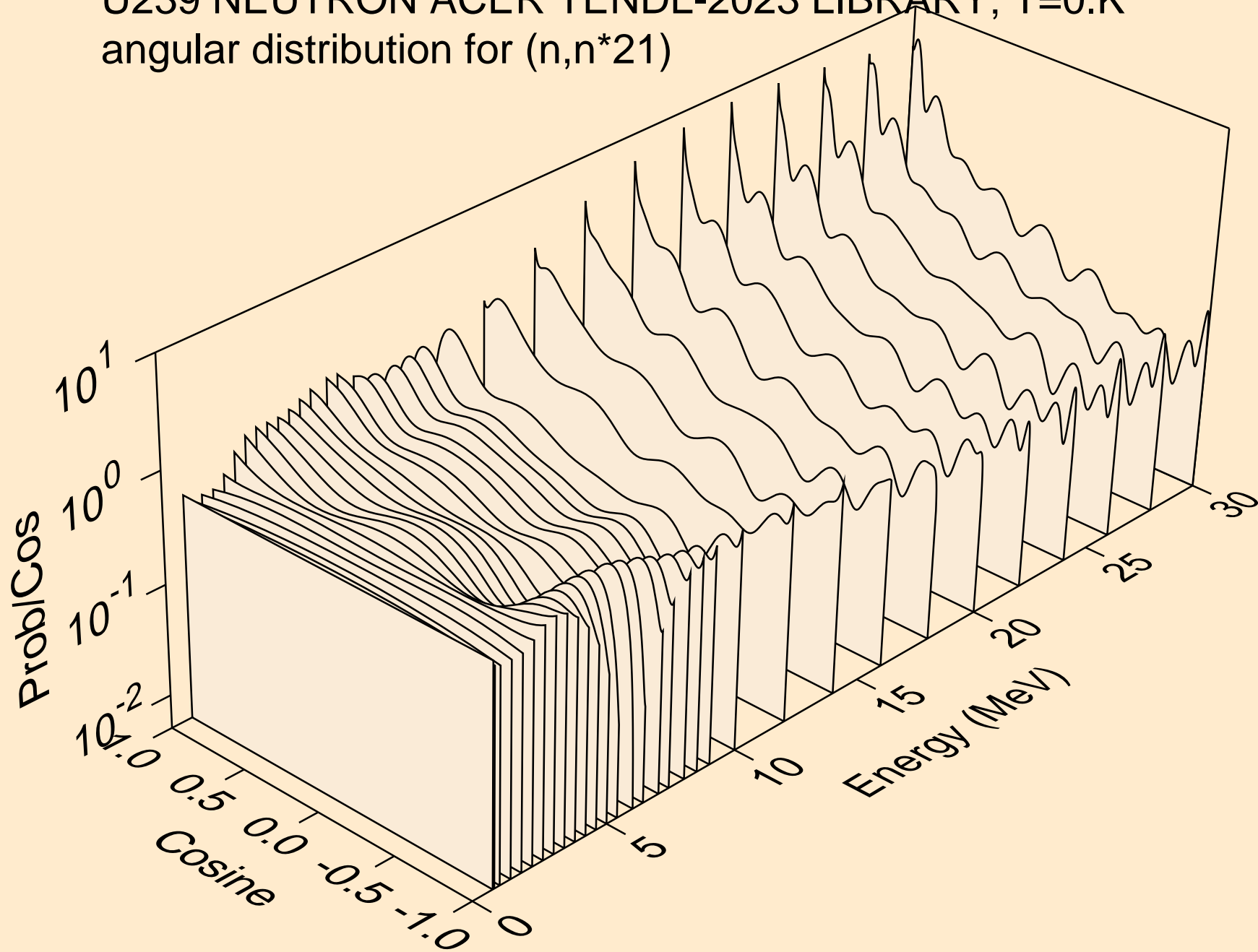
U239 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*19)



U239 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*20)

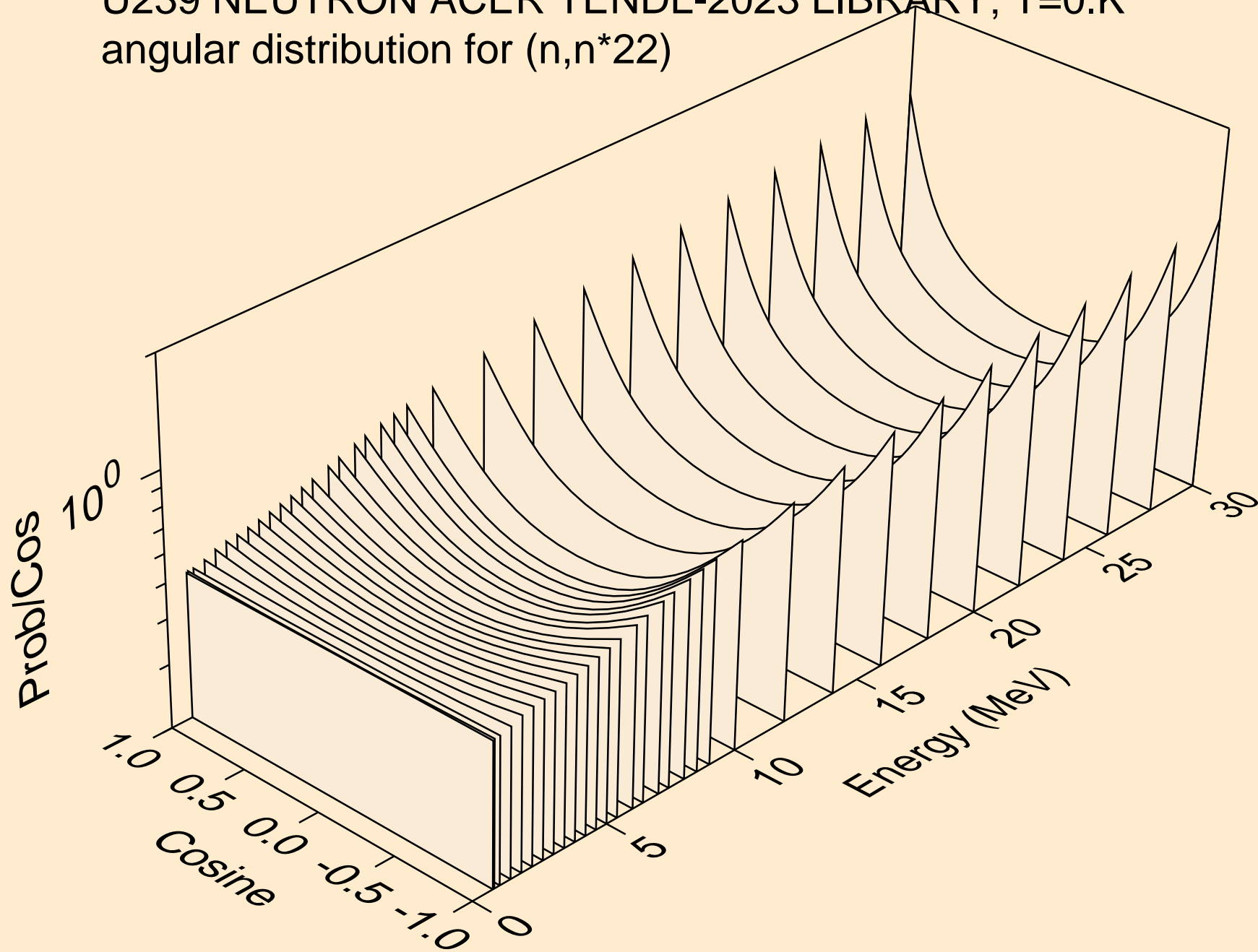


U239 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*21)

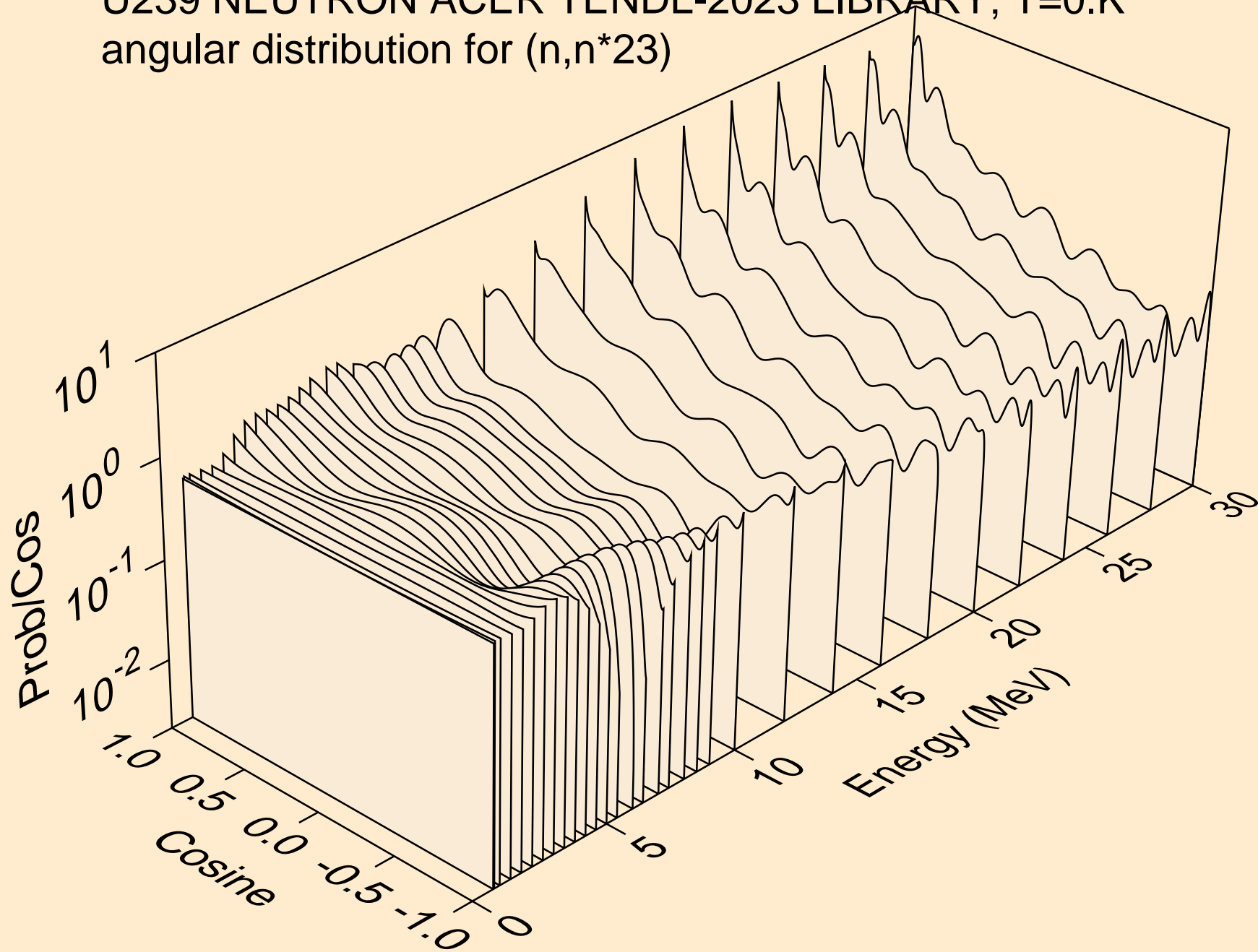




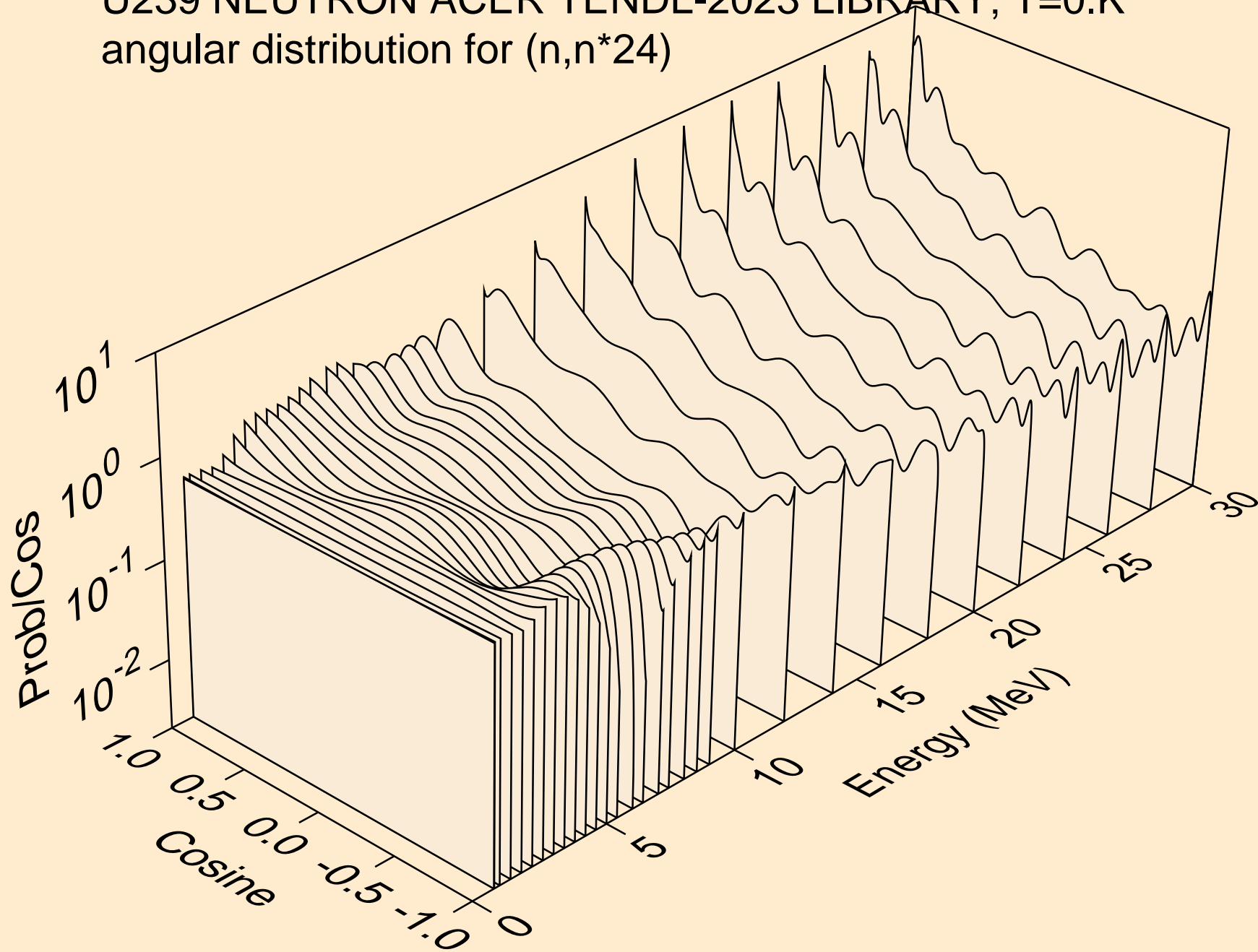
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angular distribution for (n,n\*22)



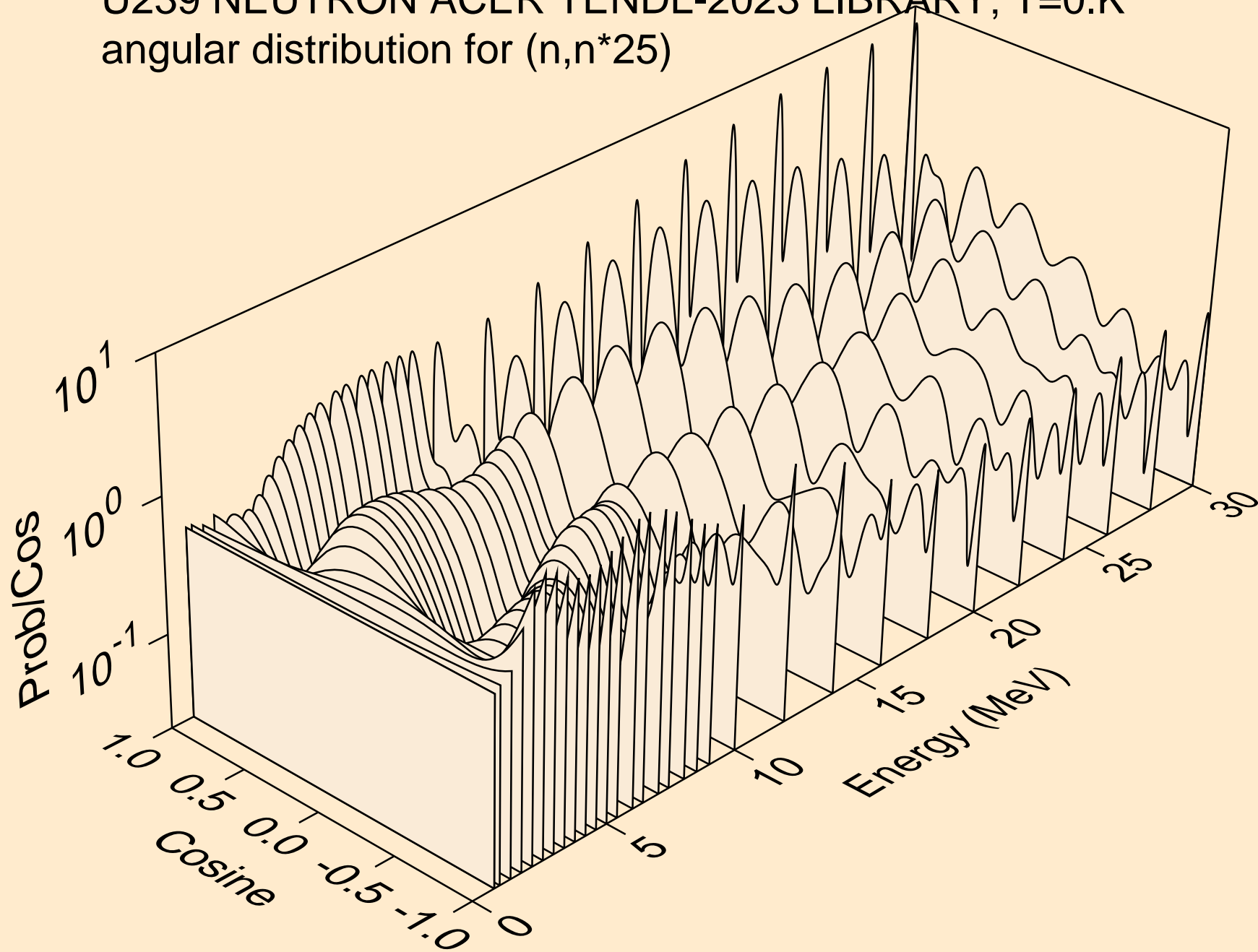
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angular distribution for (n,n\*23)



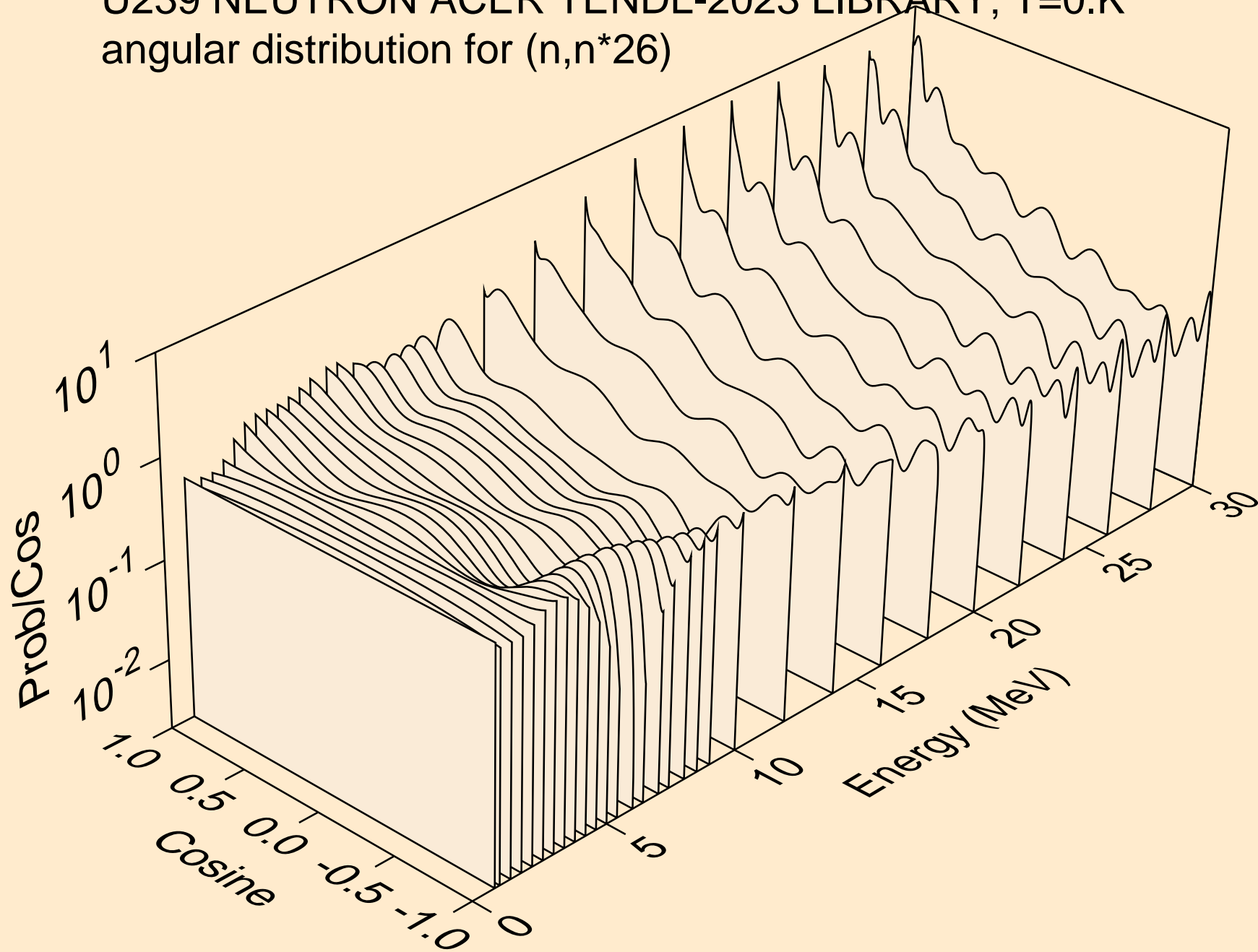
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angular distribution for (n,n\*24)



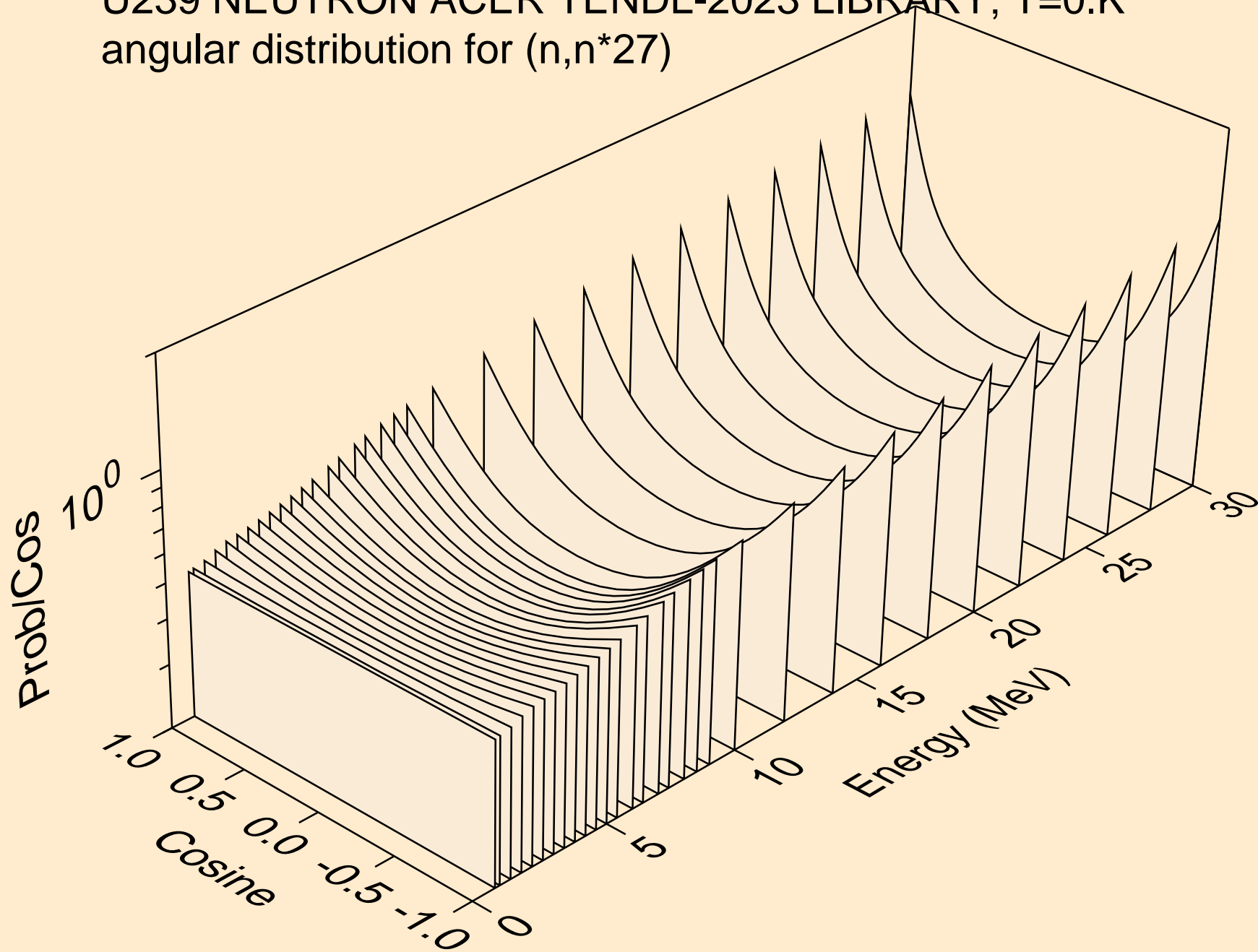
U239 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*25)



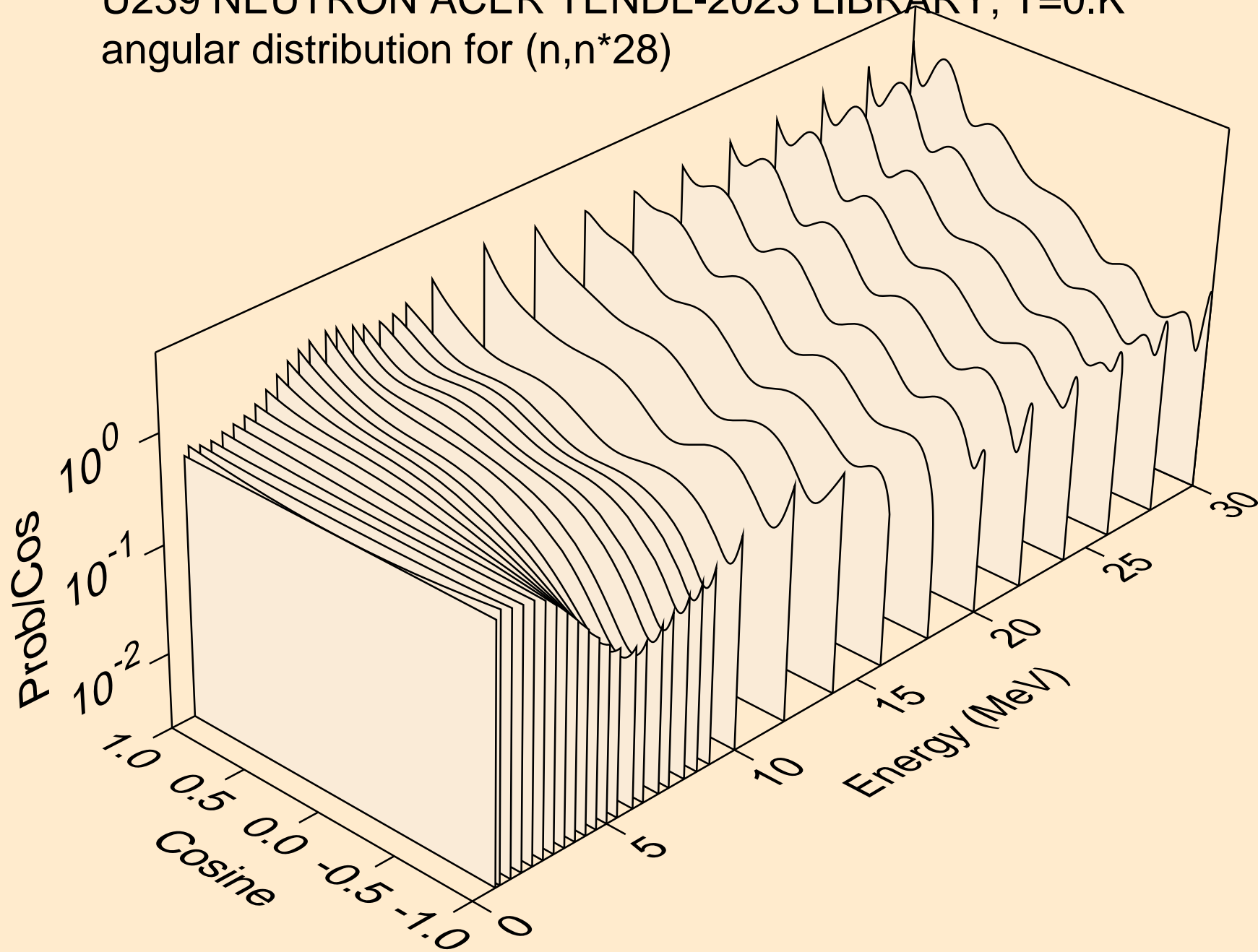
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angular distribution for (n,n\*26)



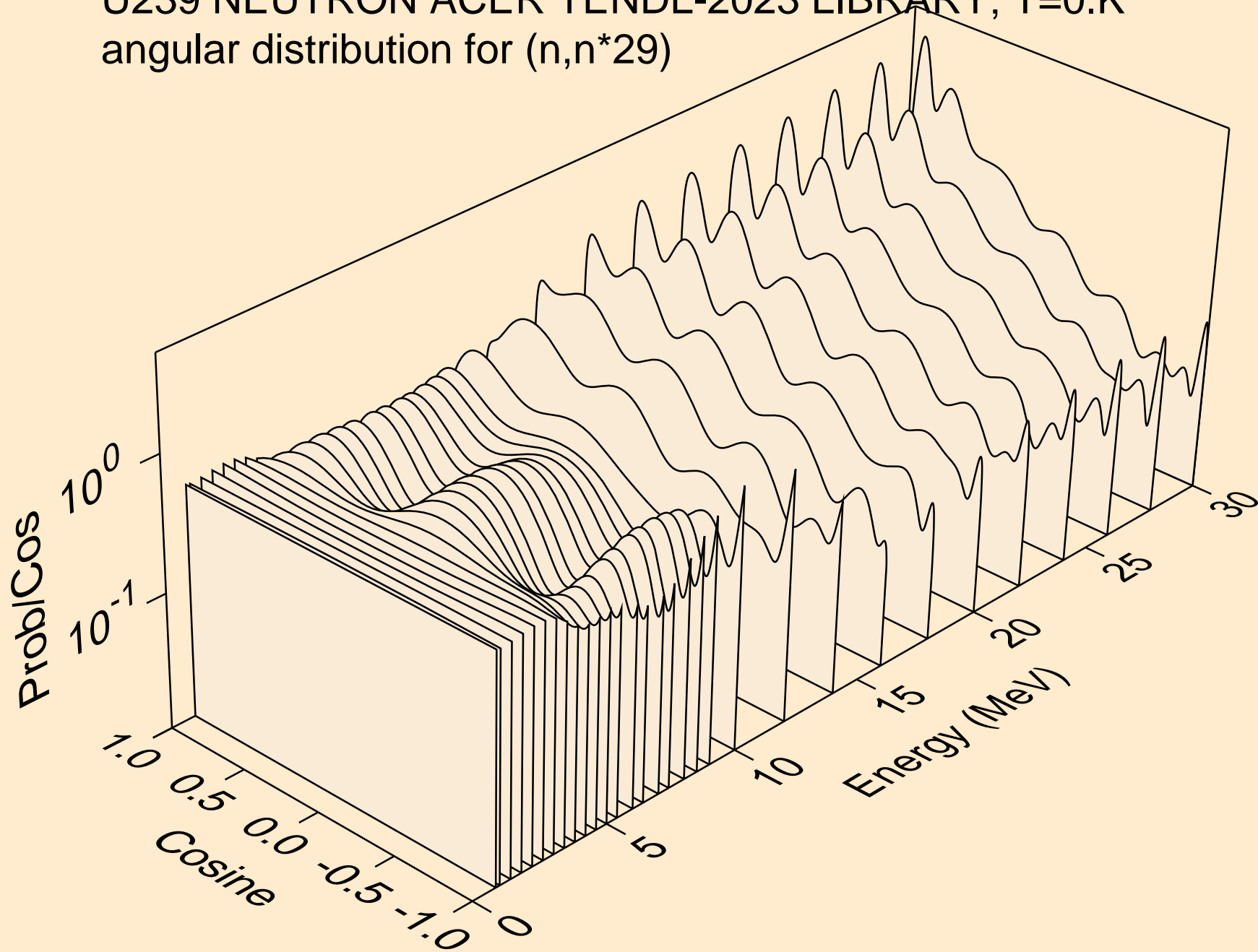
U239 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*27)



U239 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*28)

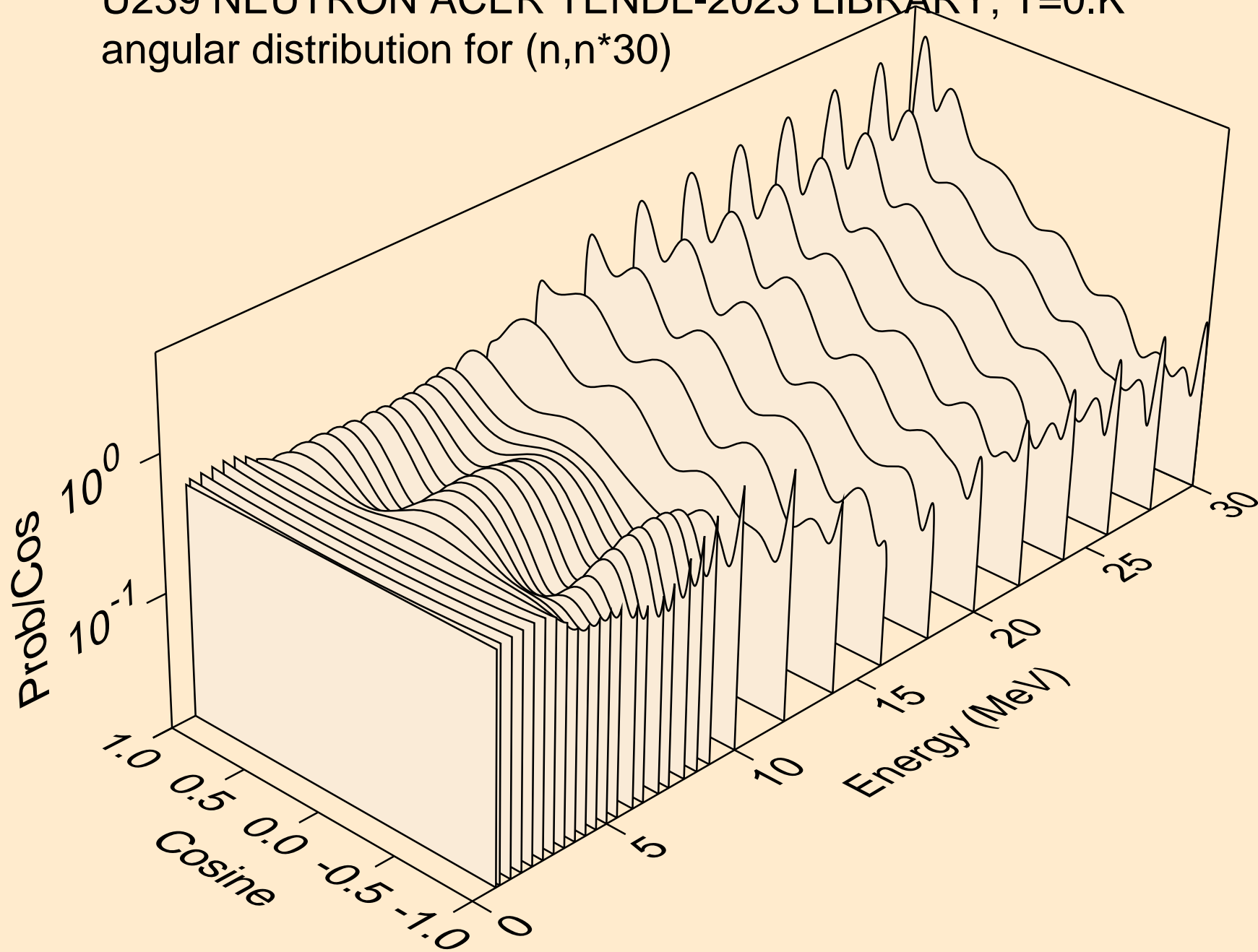


U239 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*29)



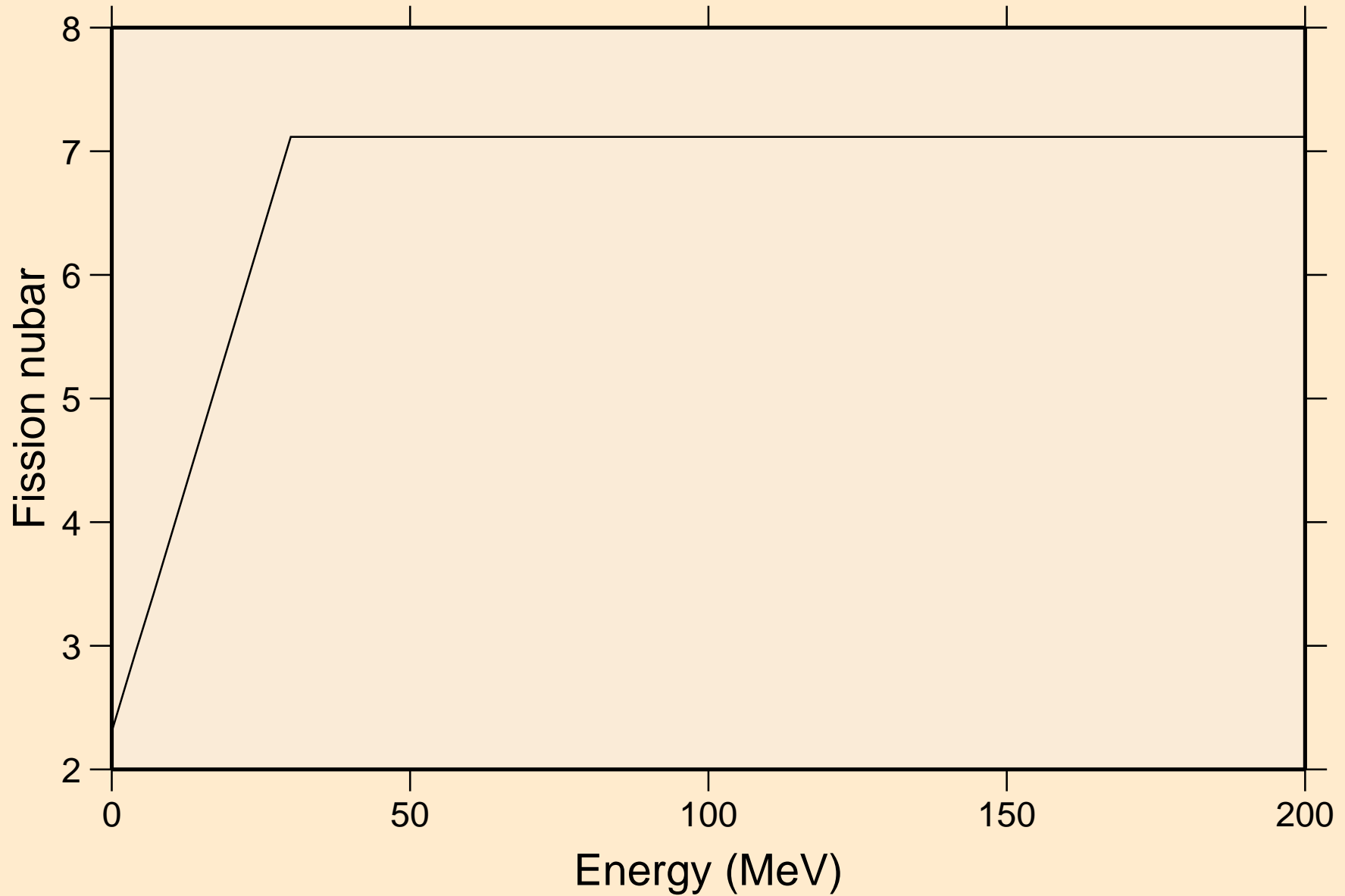


U239 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*30)

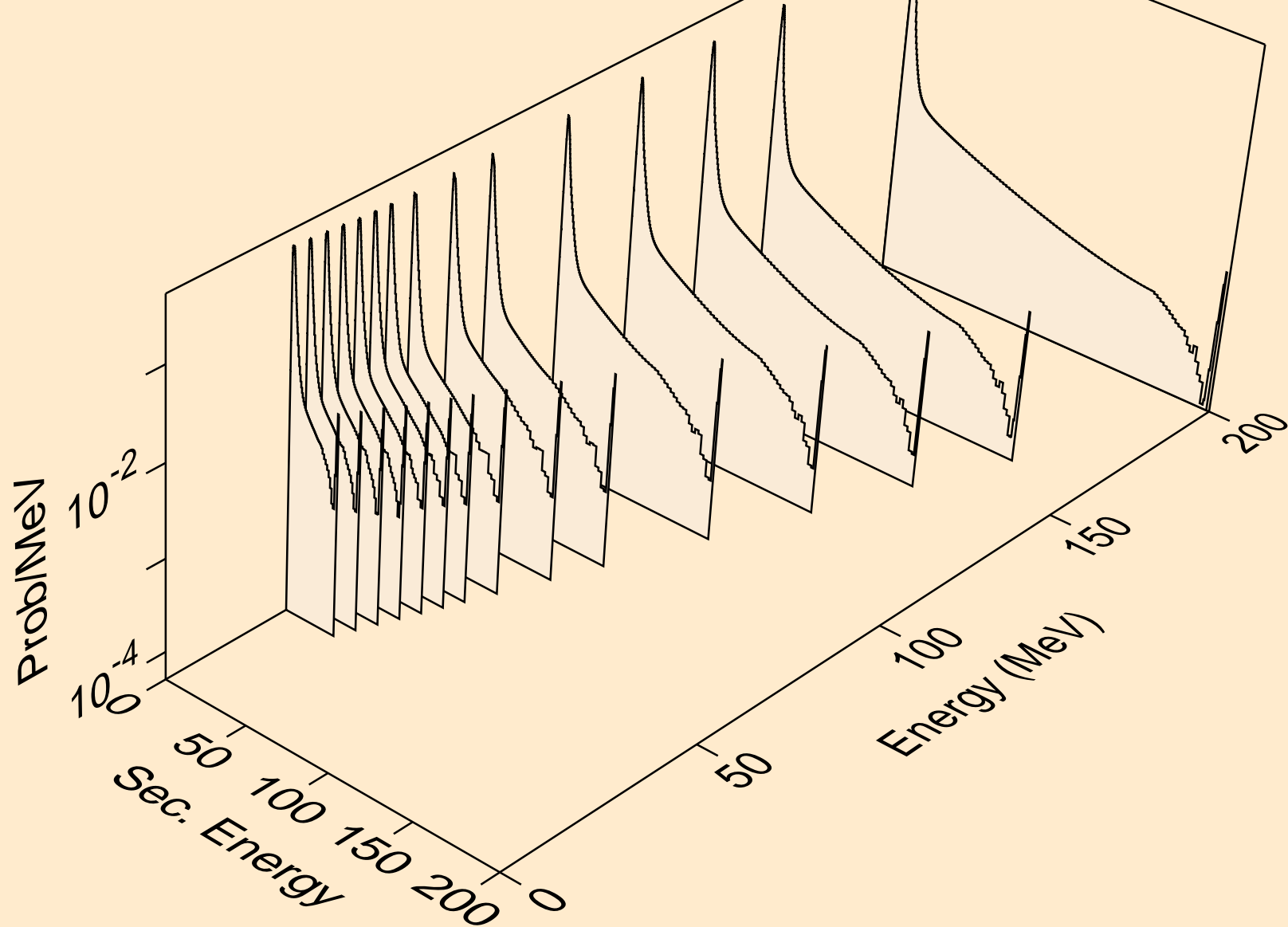


U239 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

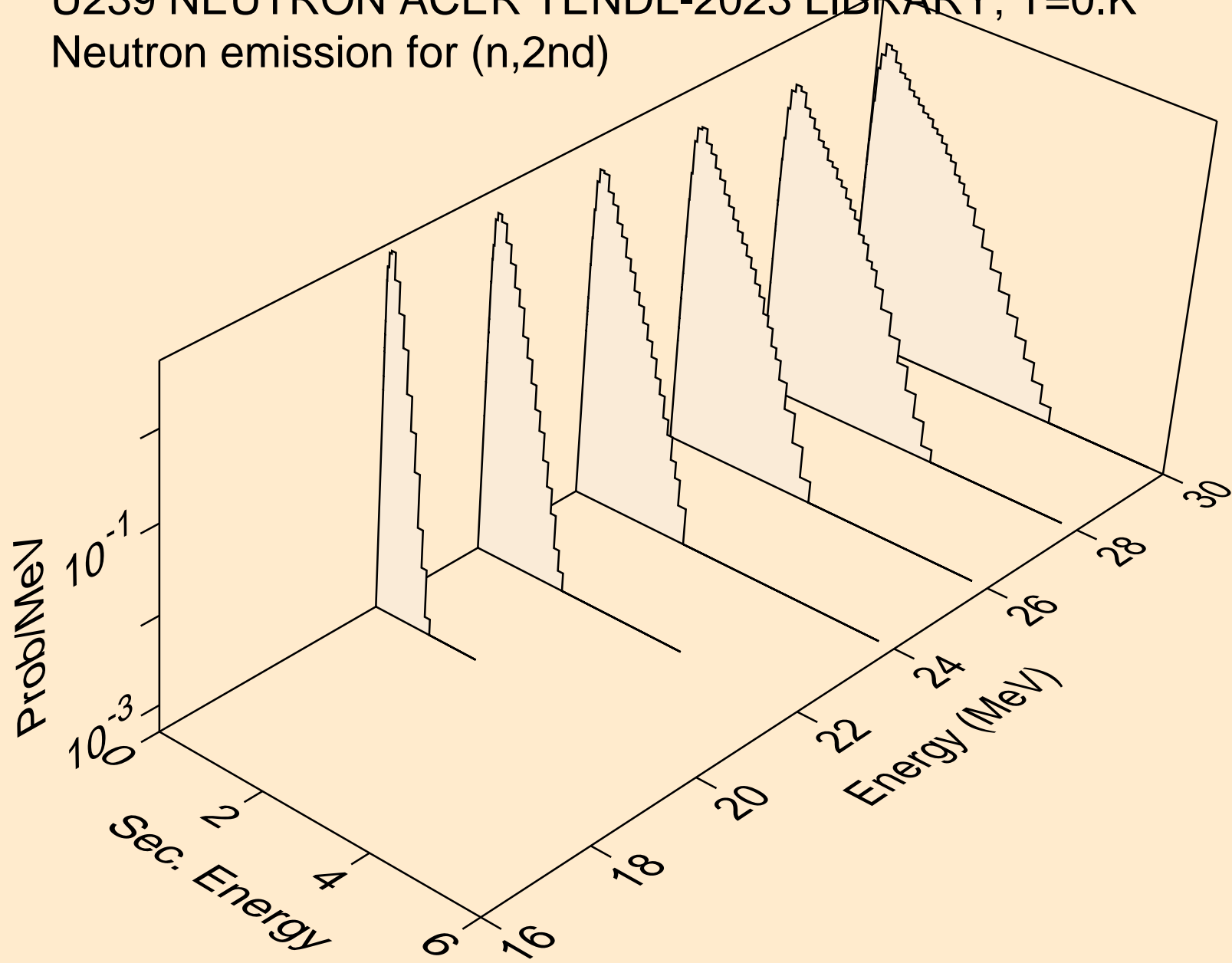
Total fission nubar



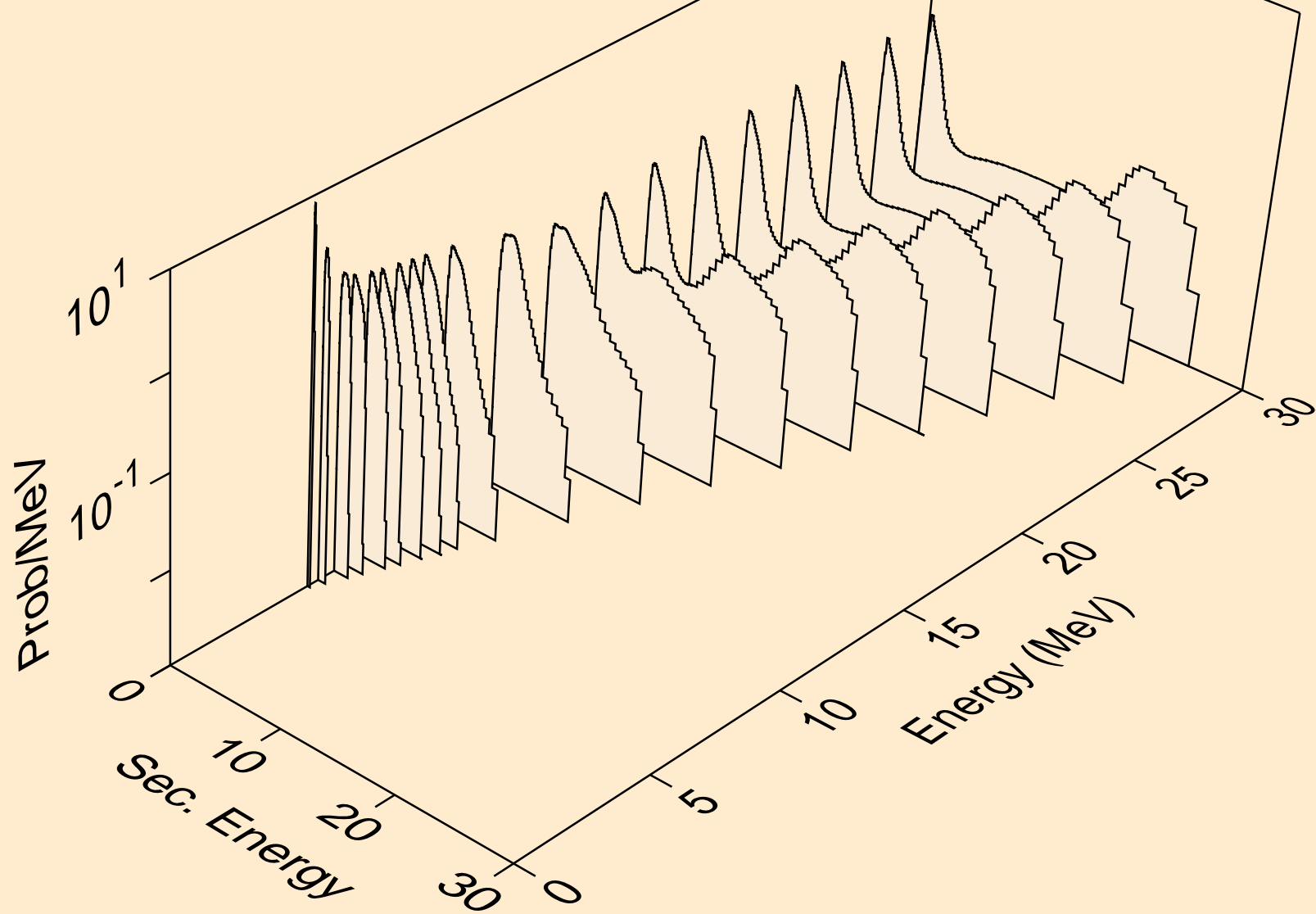
U239 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,x)



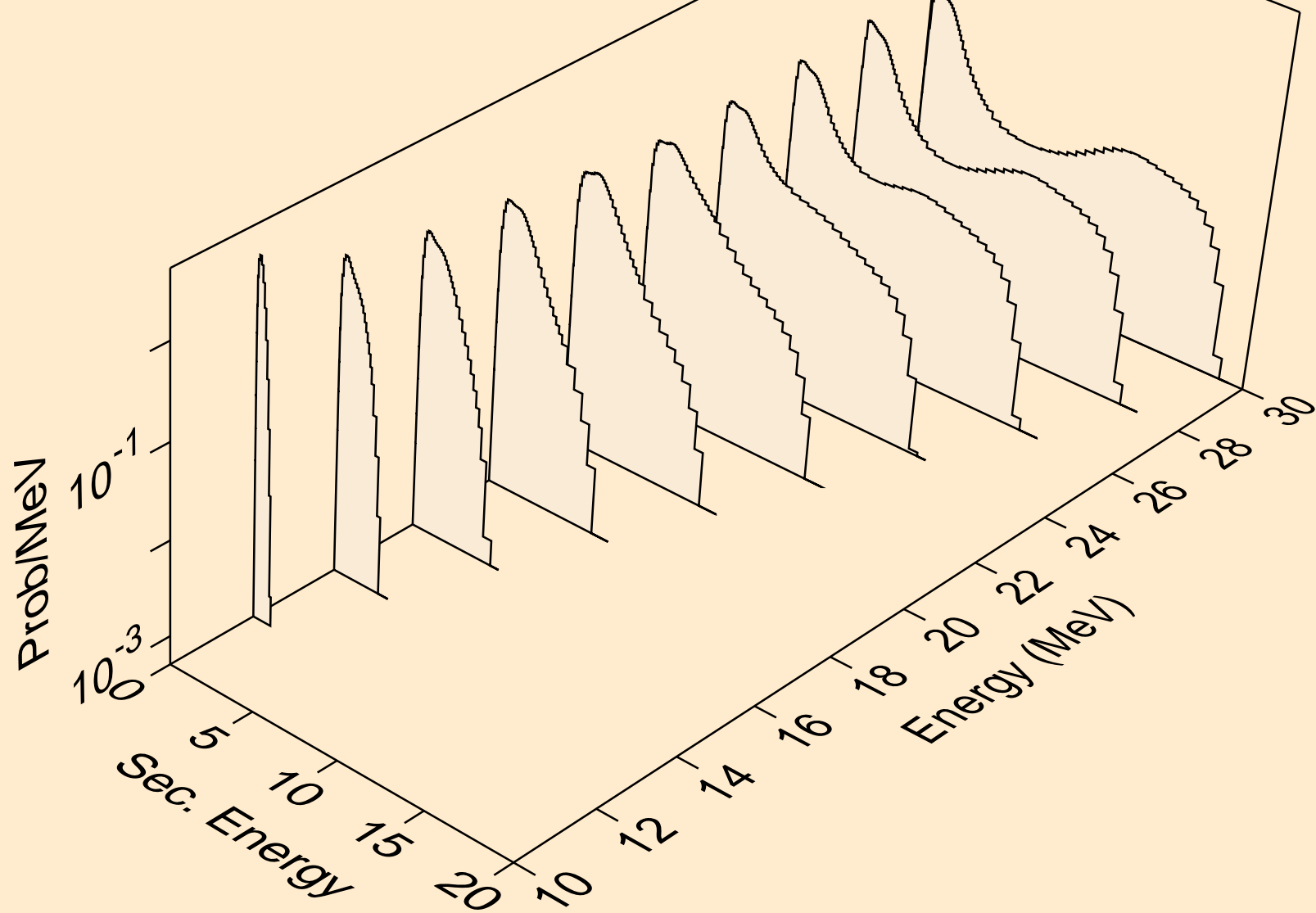
U239 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,2nd)



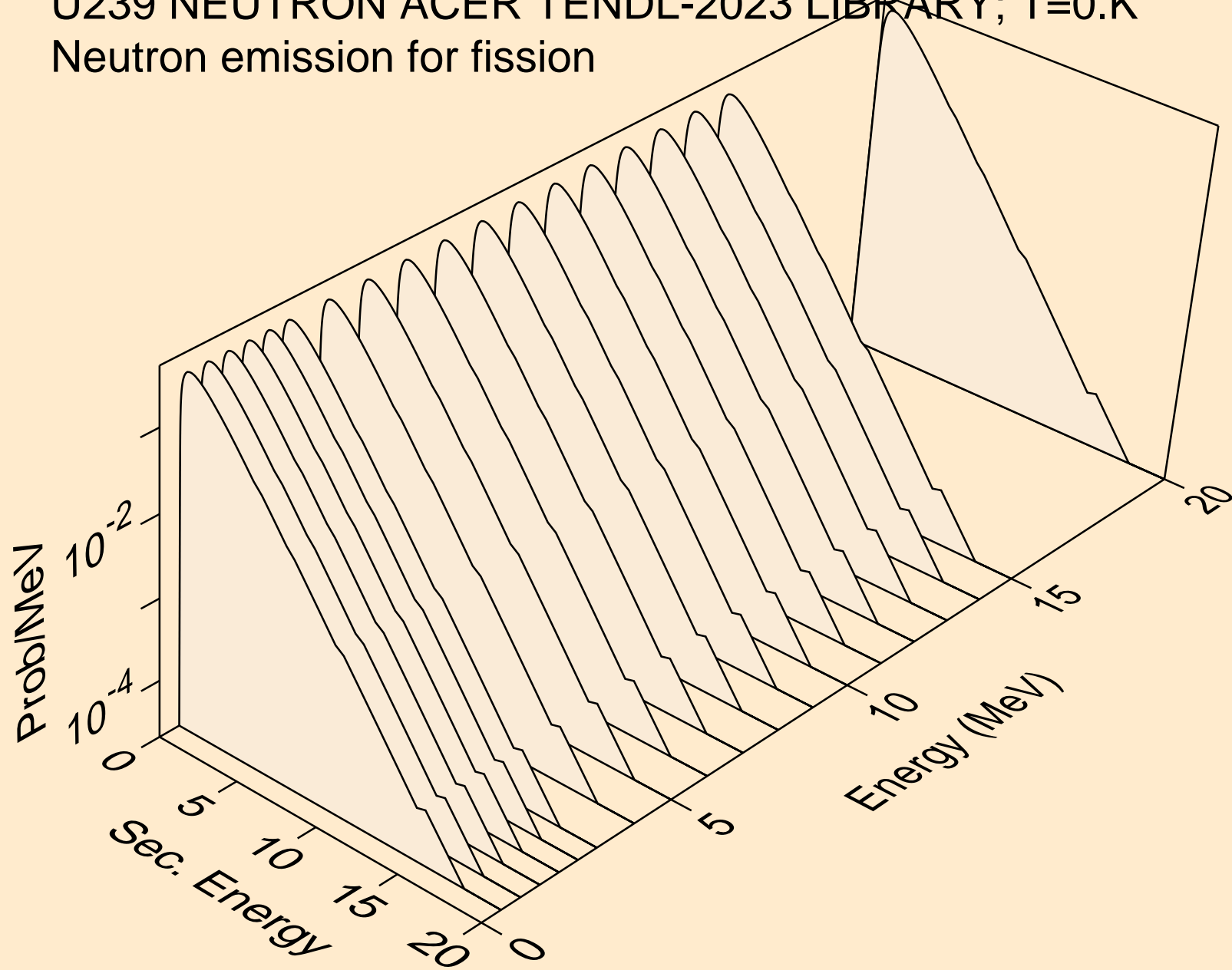
U239 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,2n)



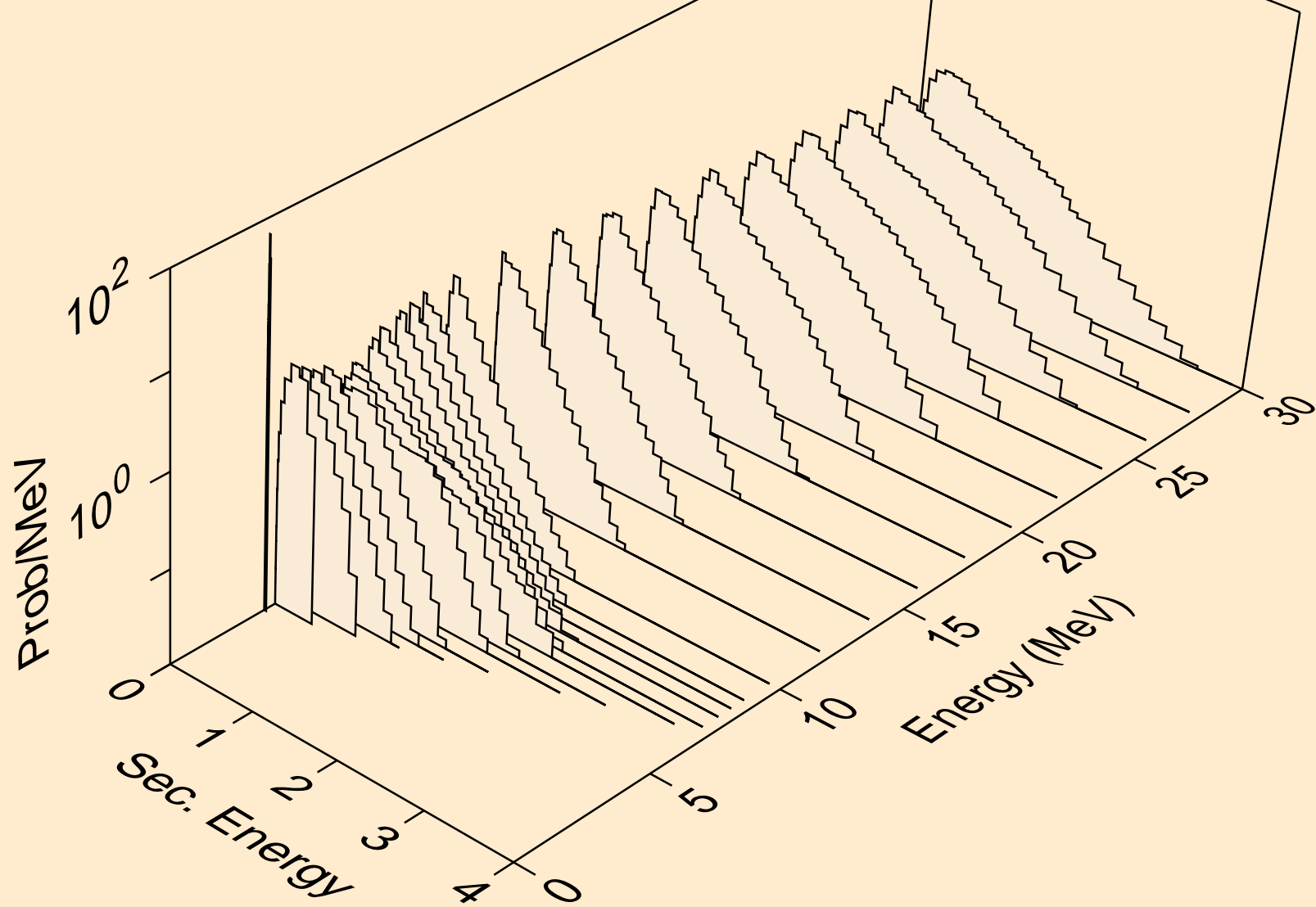
U239 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,3n)



U239 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for fission

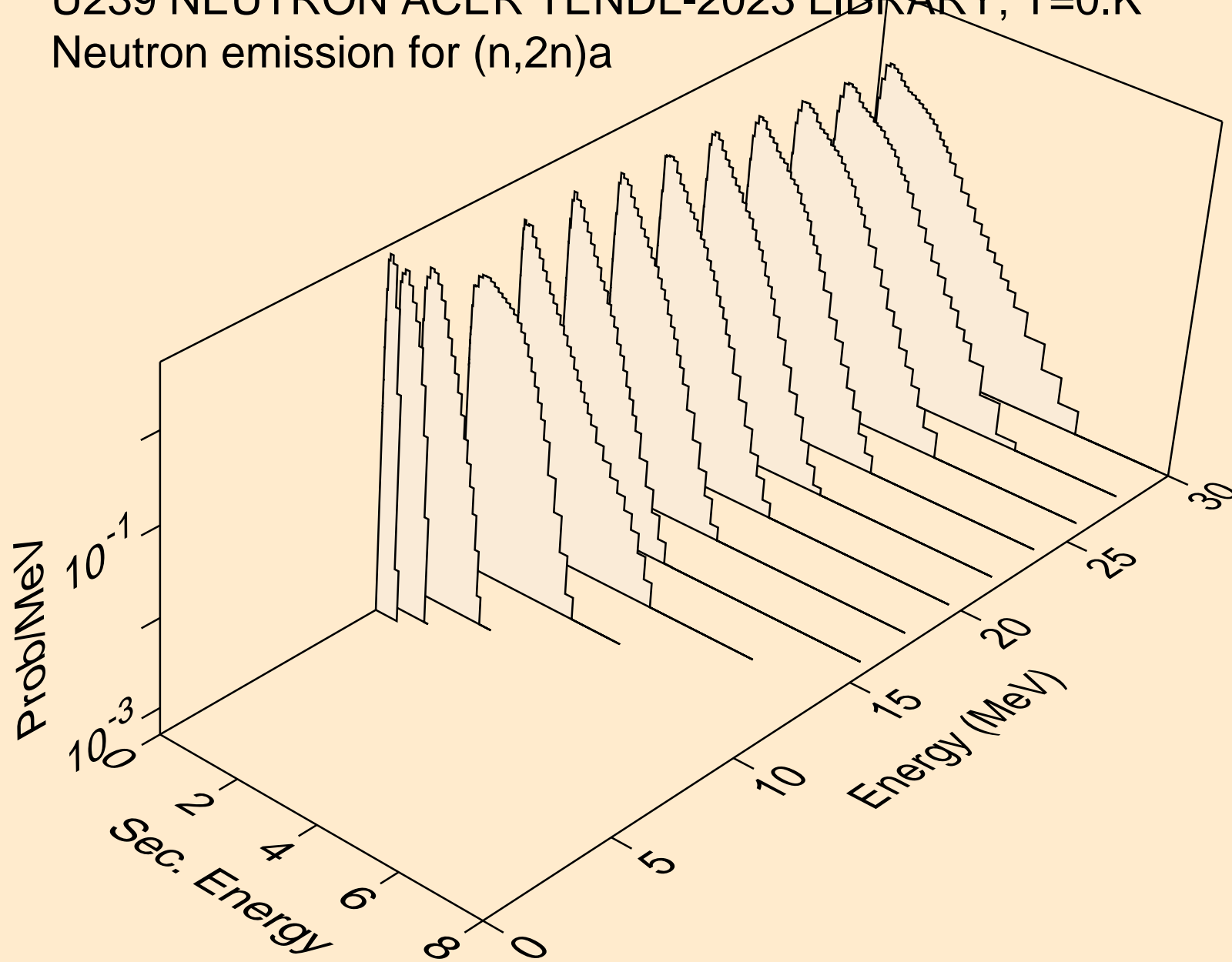


U239 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,n\*)a

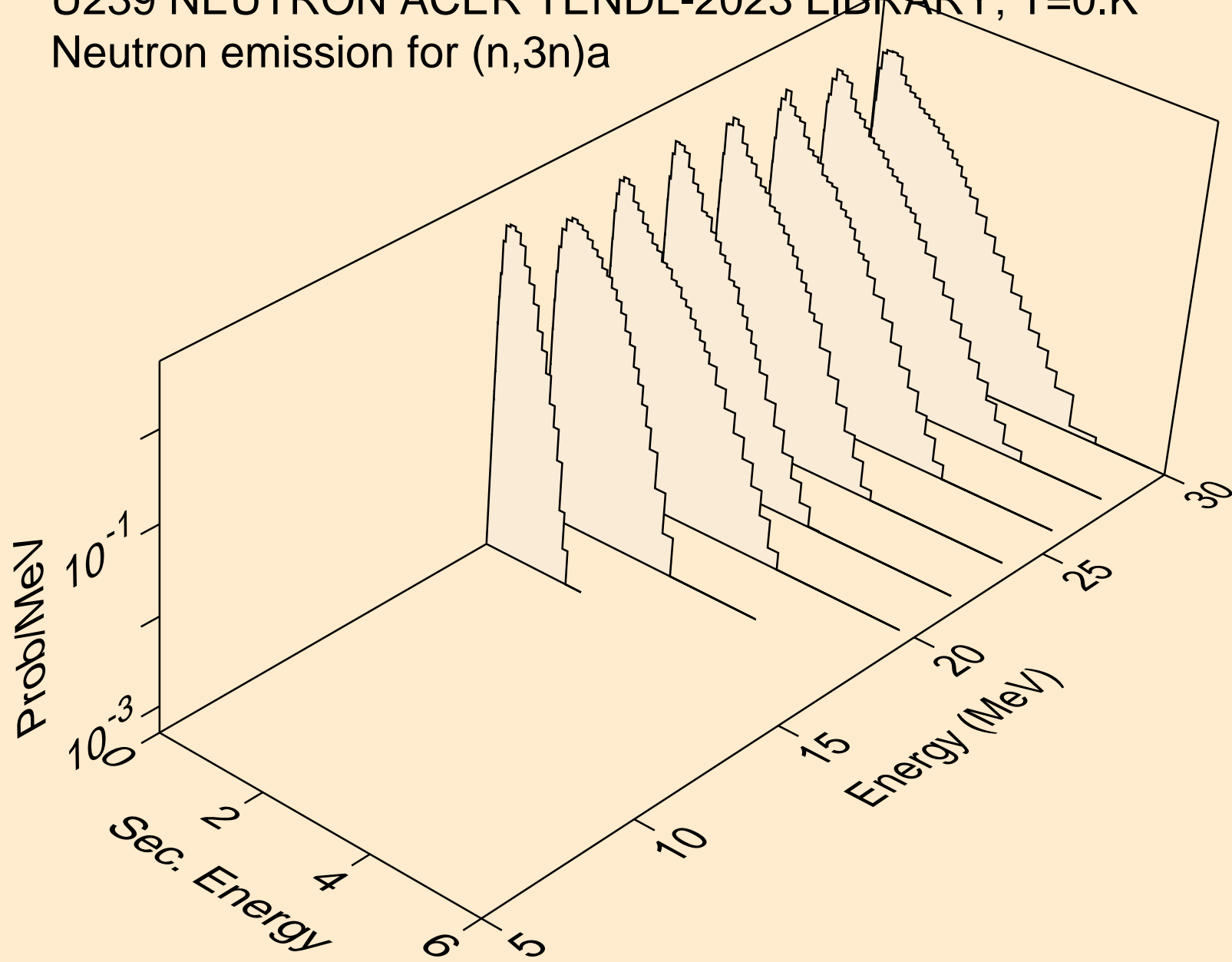




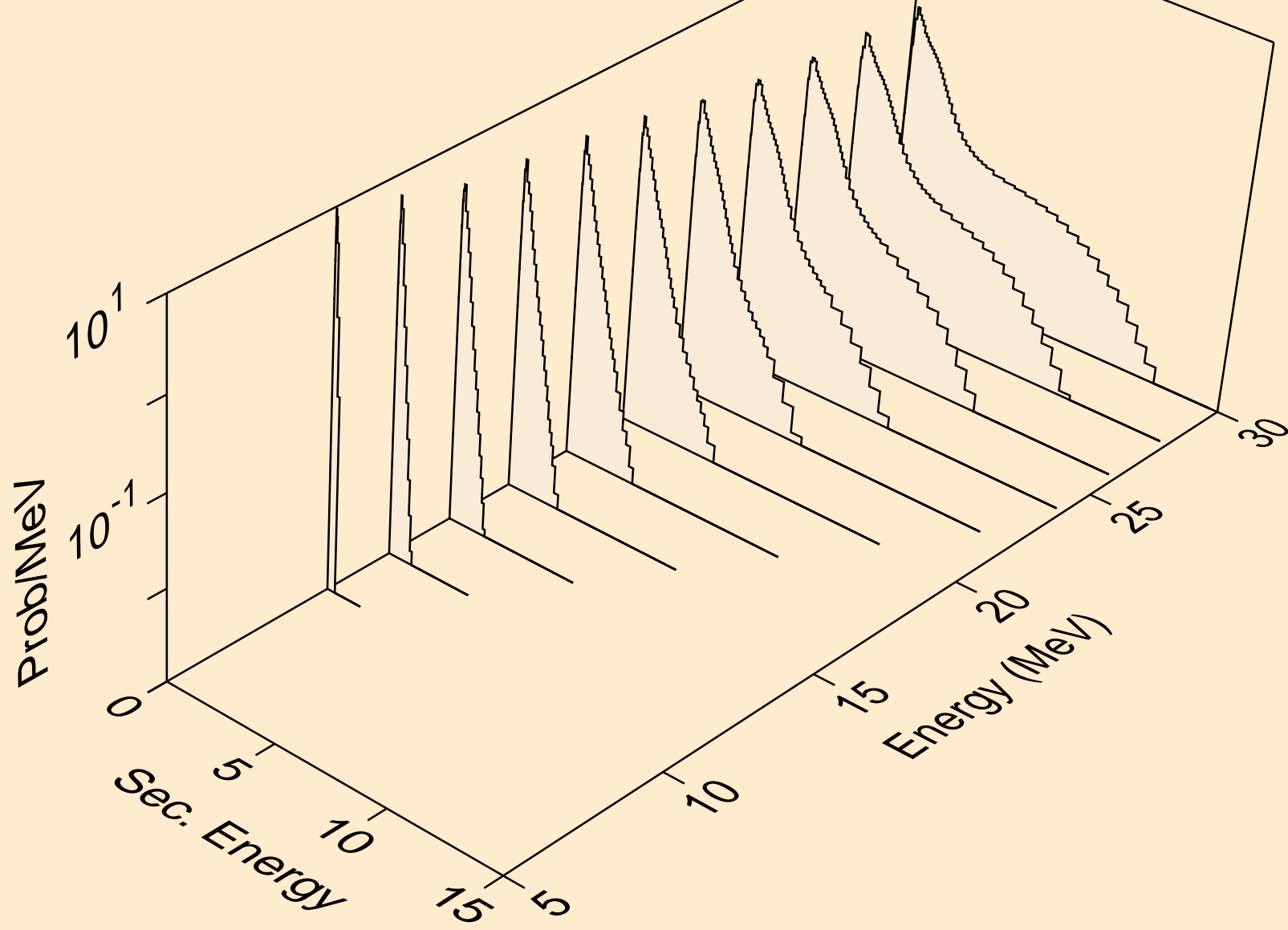
U239 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,2n)a



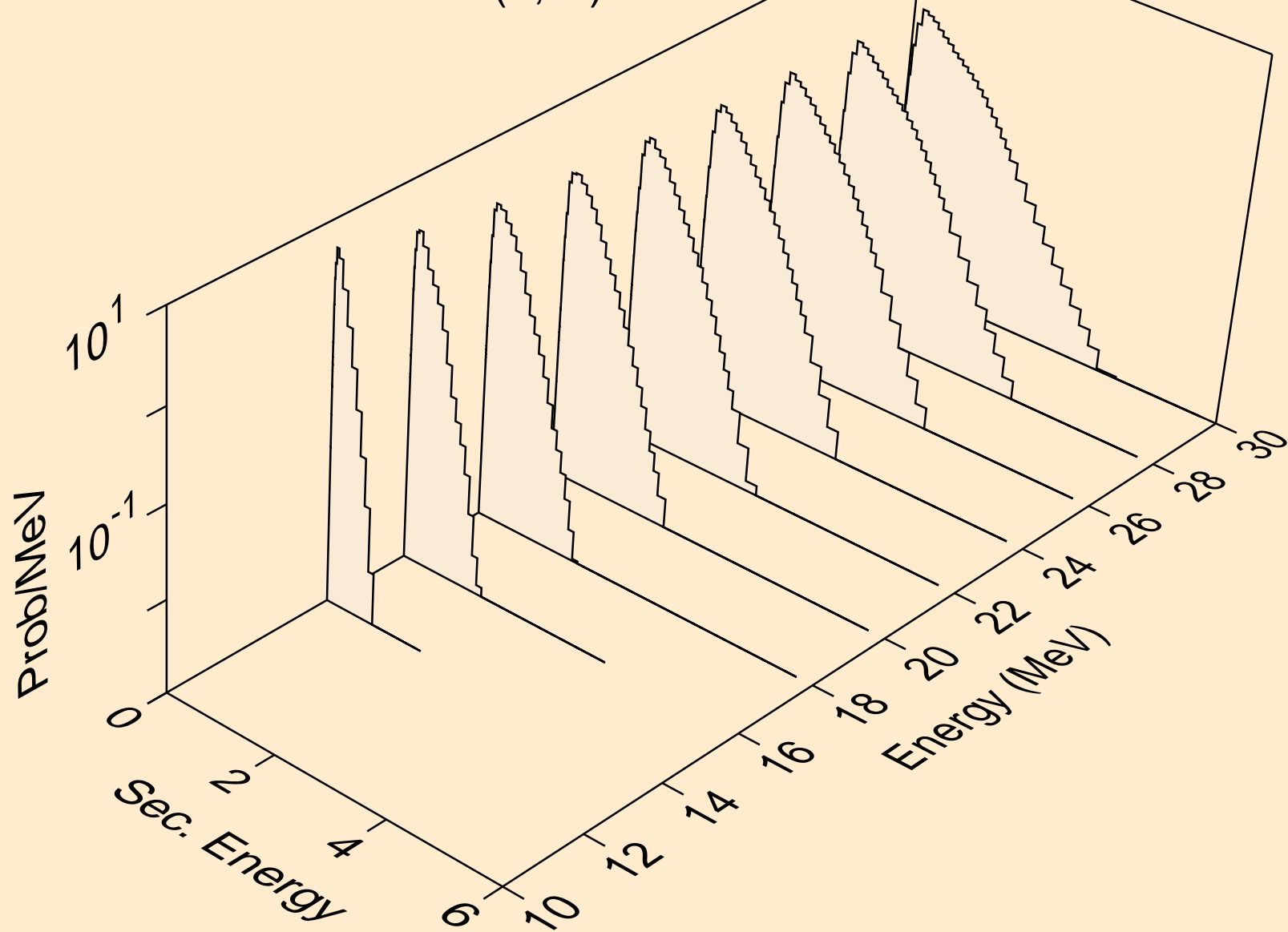
U239 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,3n)a



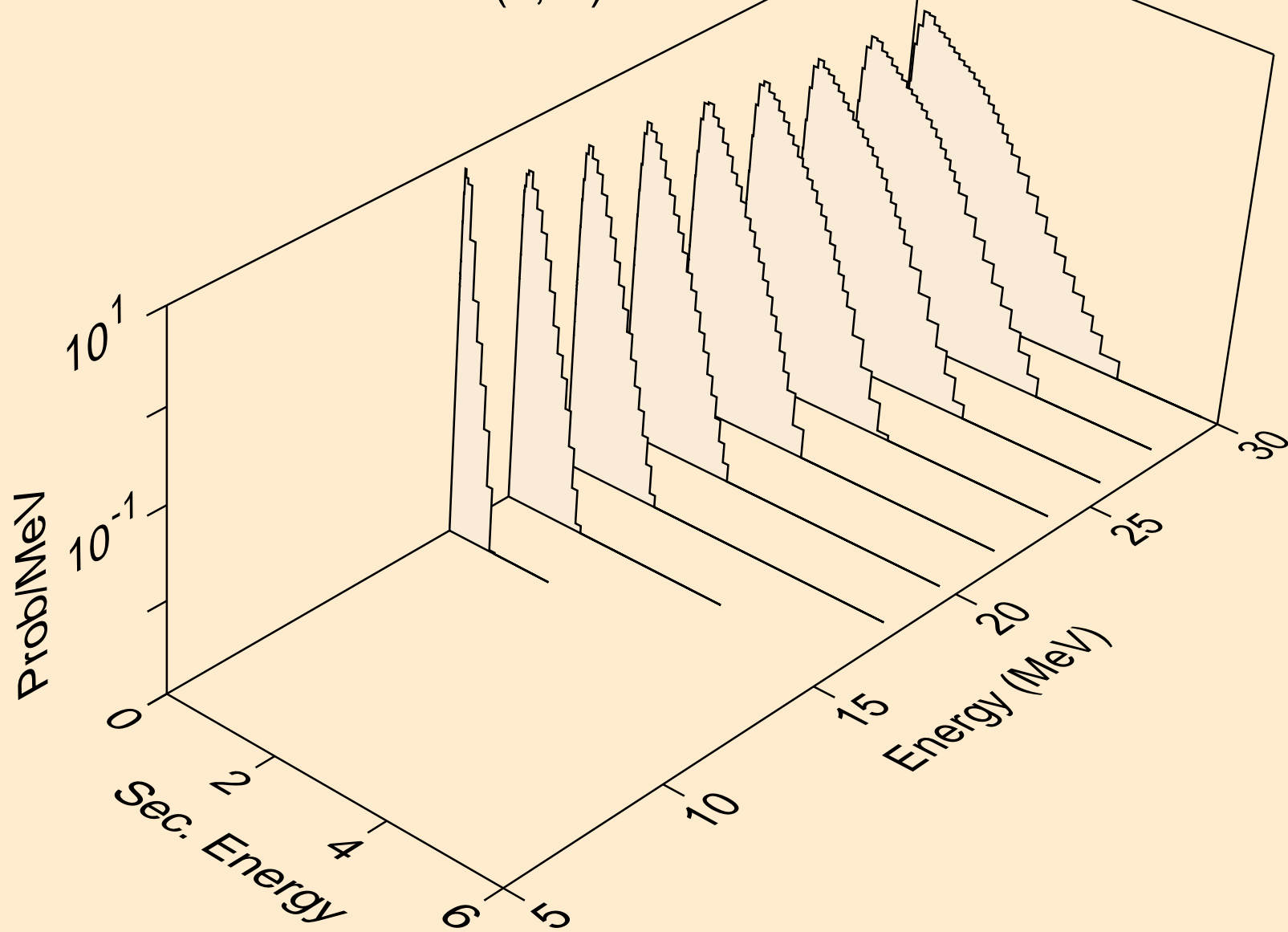
U239 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,n\*)p



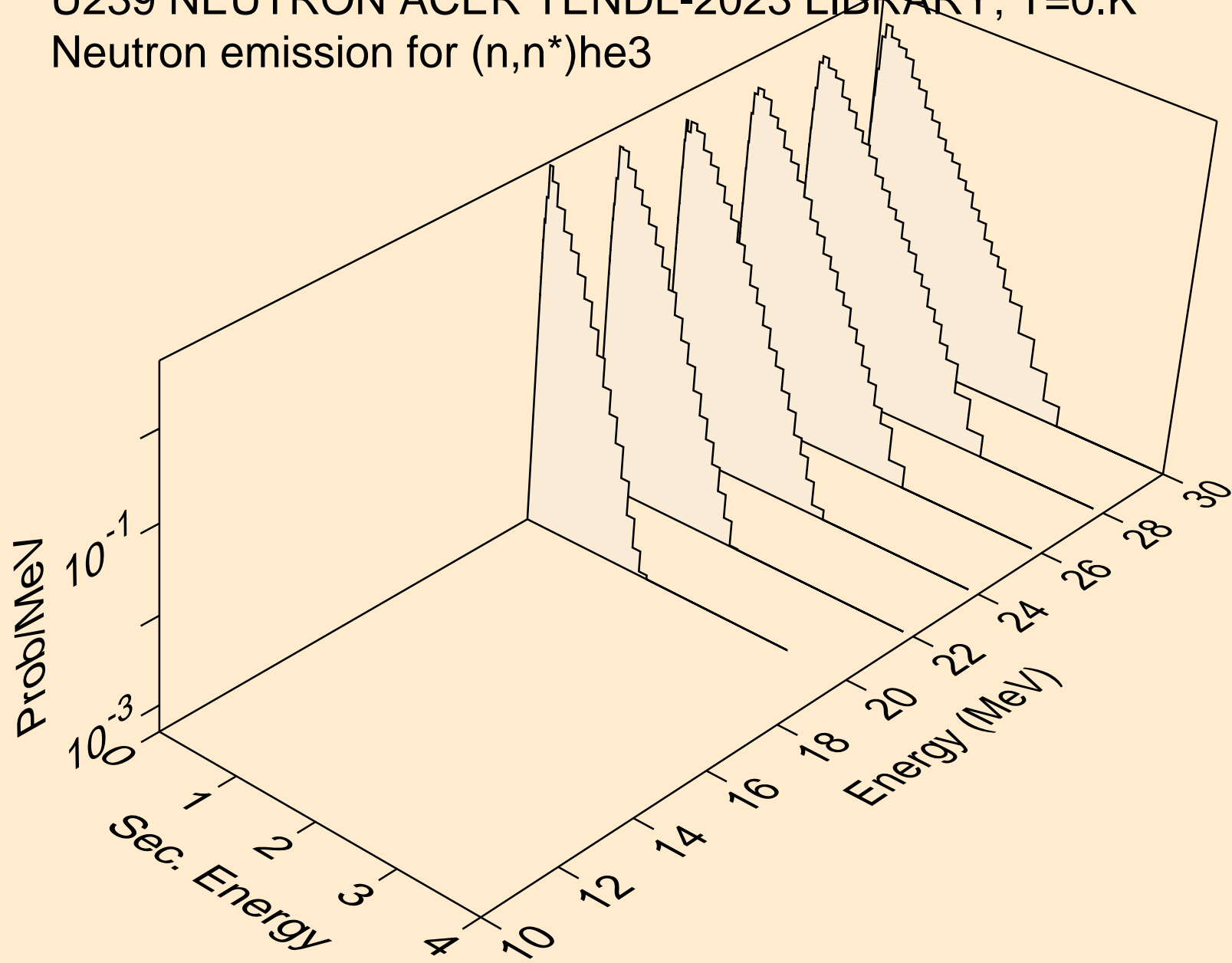
U239 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,n\*)d



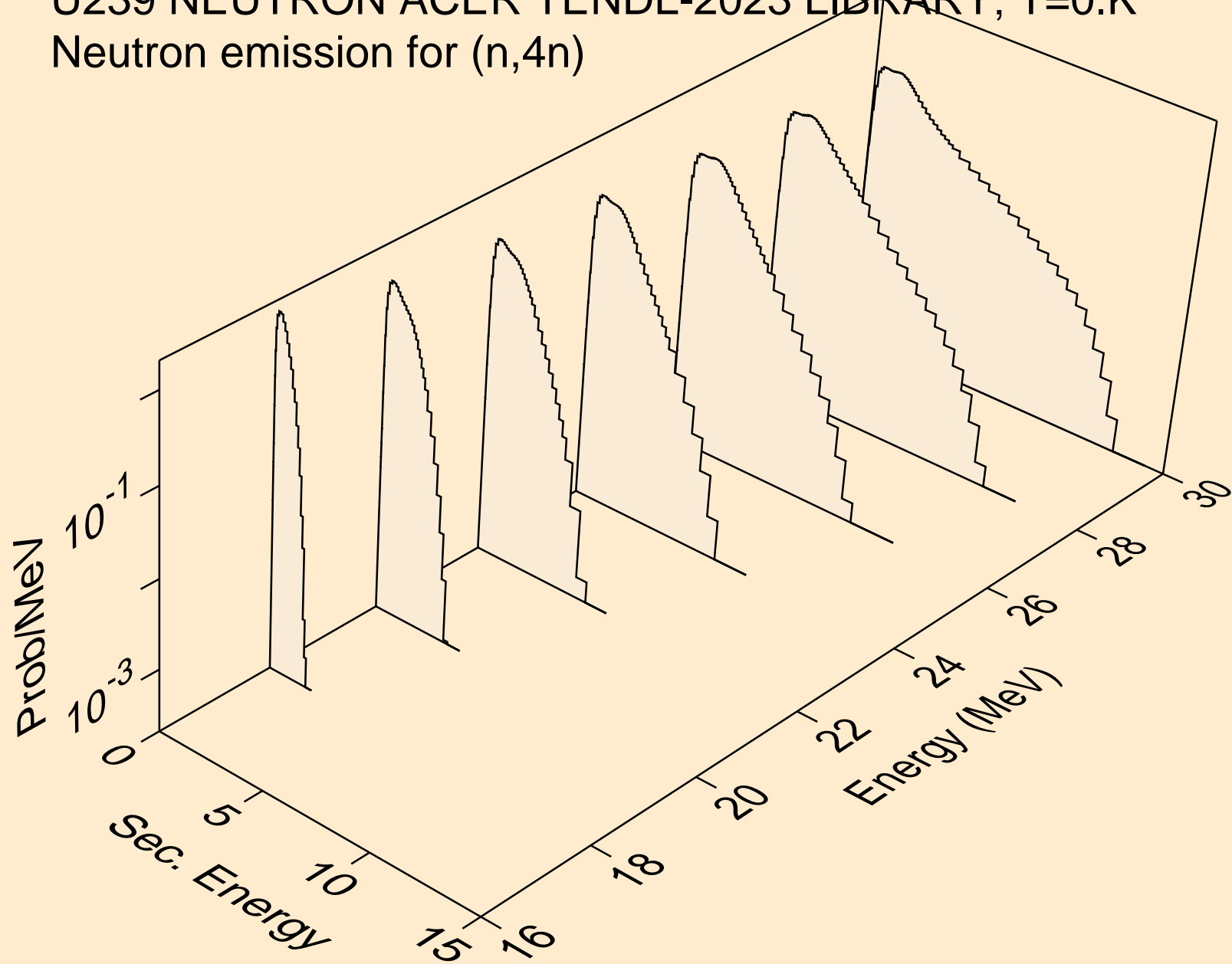
U239 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,n\*)t



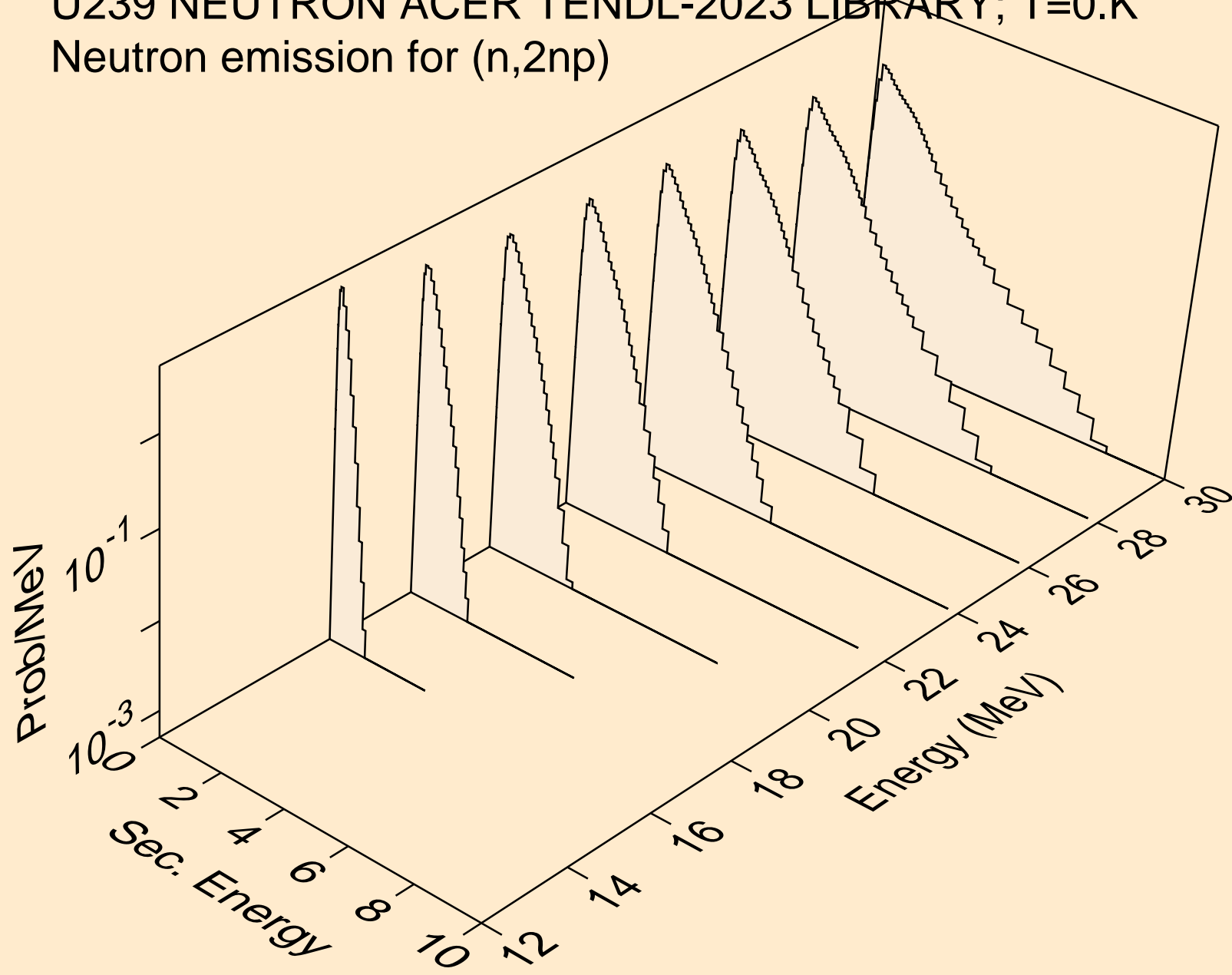
U239 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,n\*)he3



U239 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,4n)

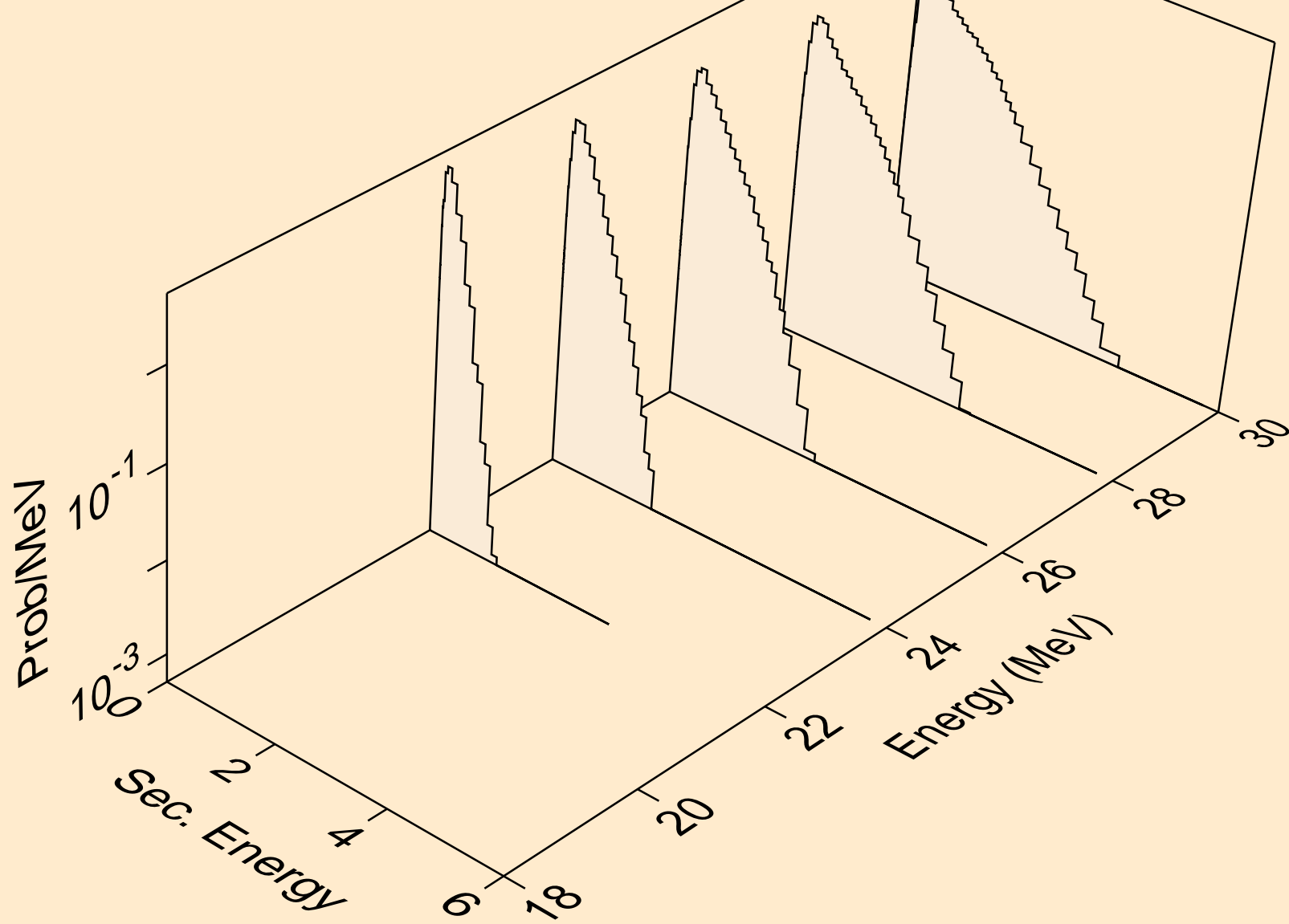


U239 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,2np)

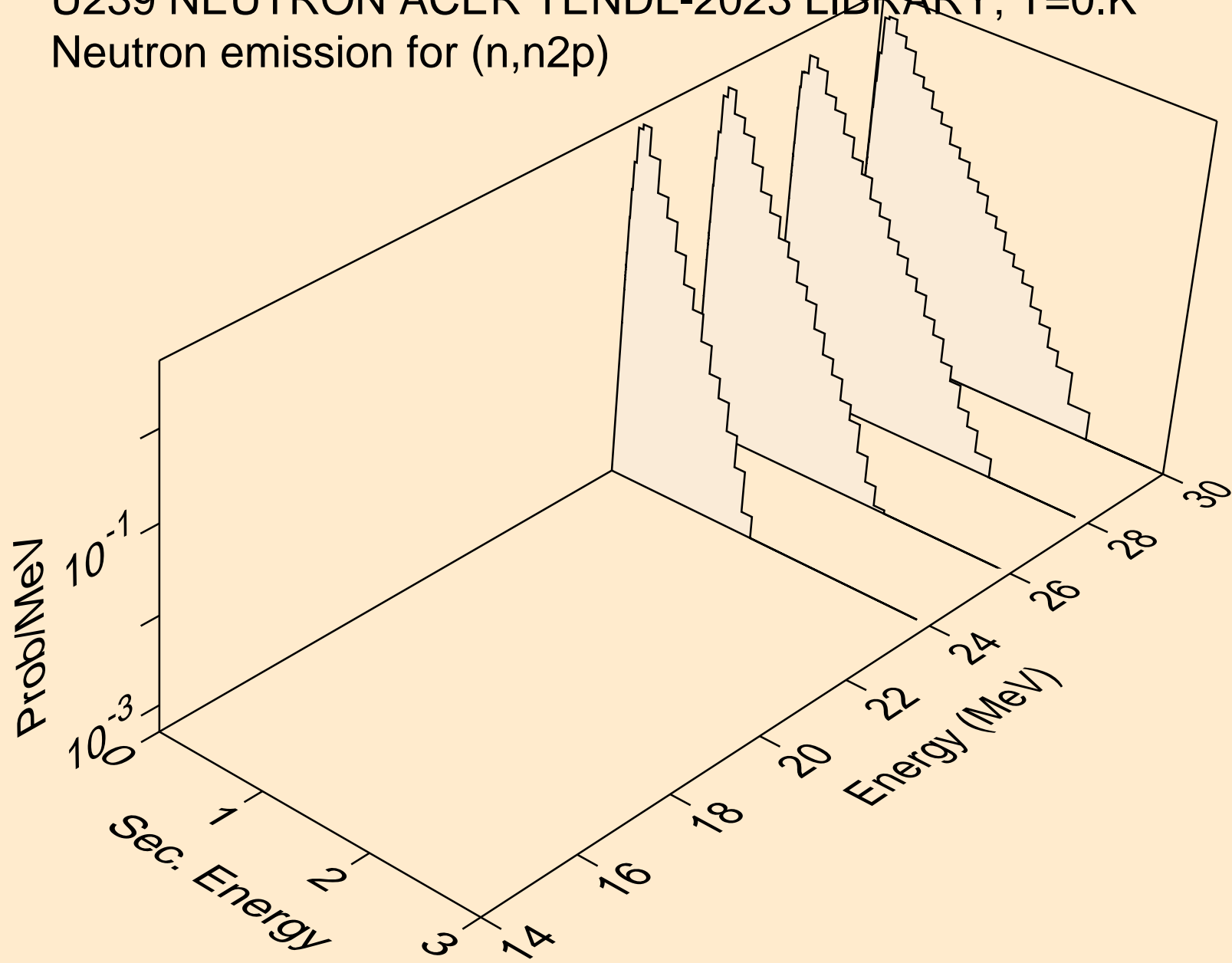




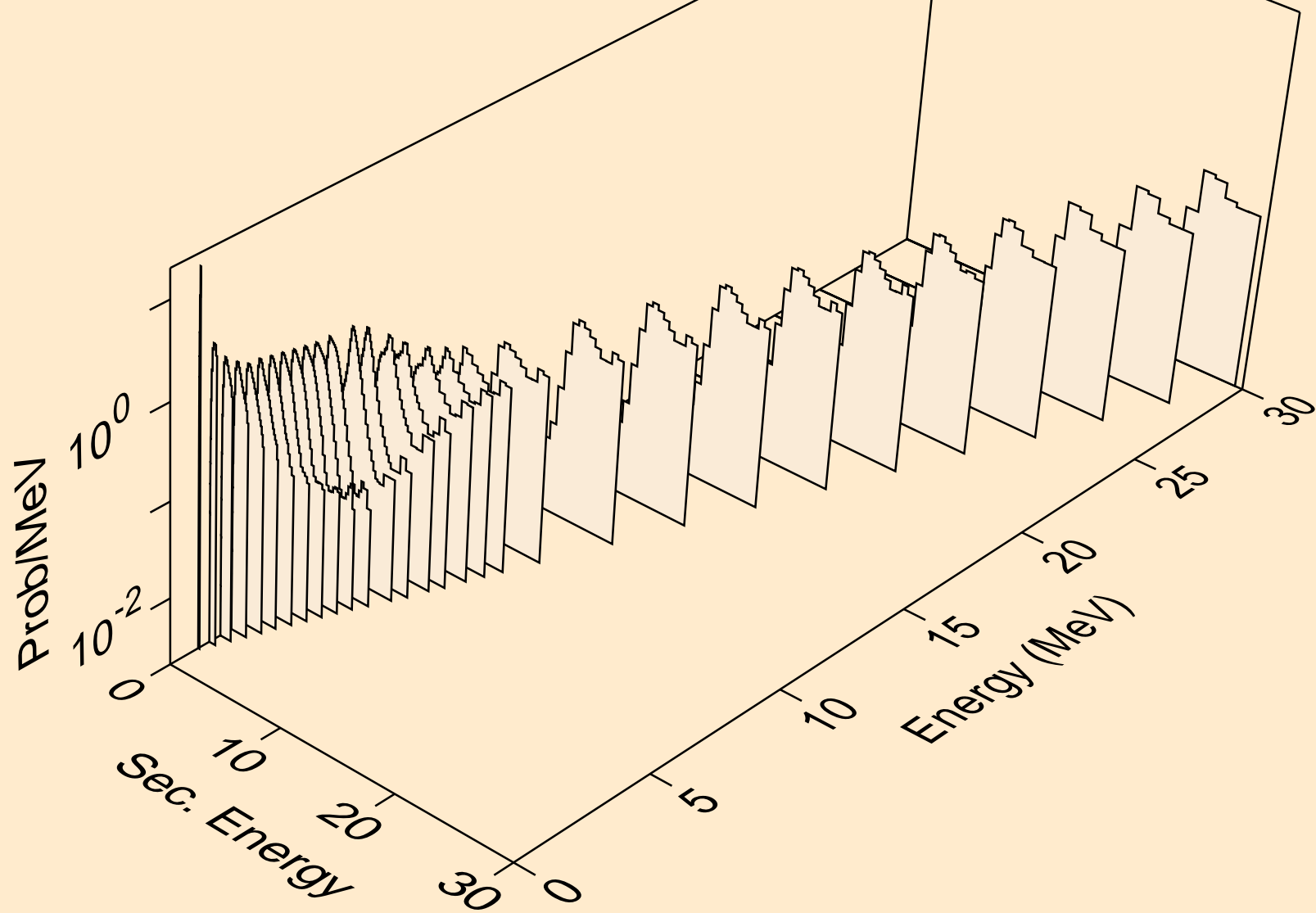
U239 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,3np)



U239 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,n2p)

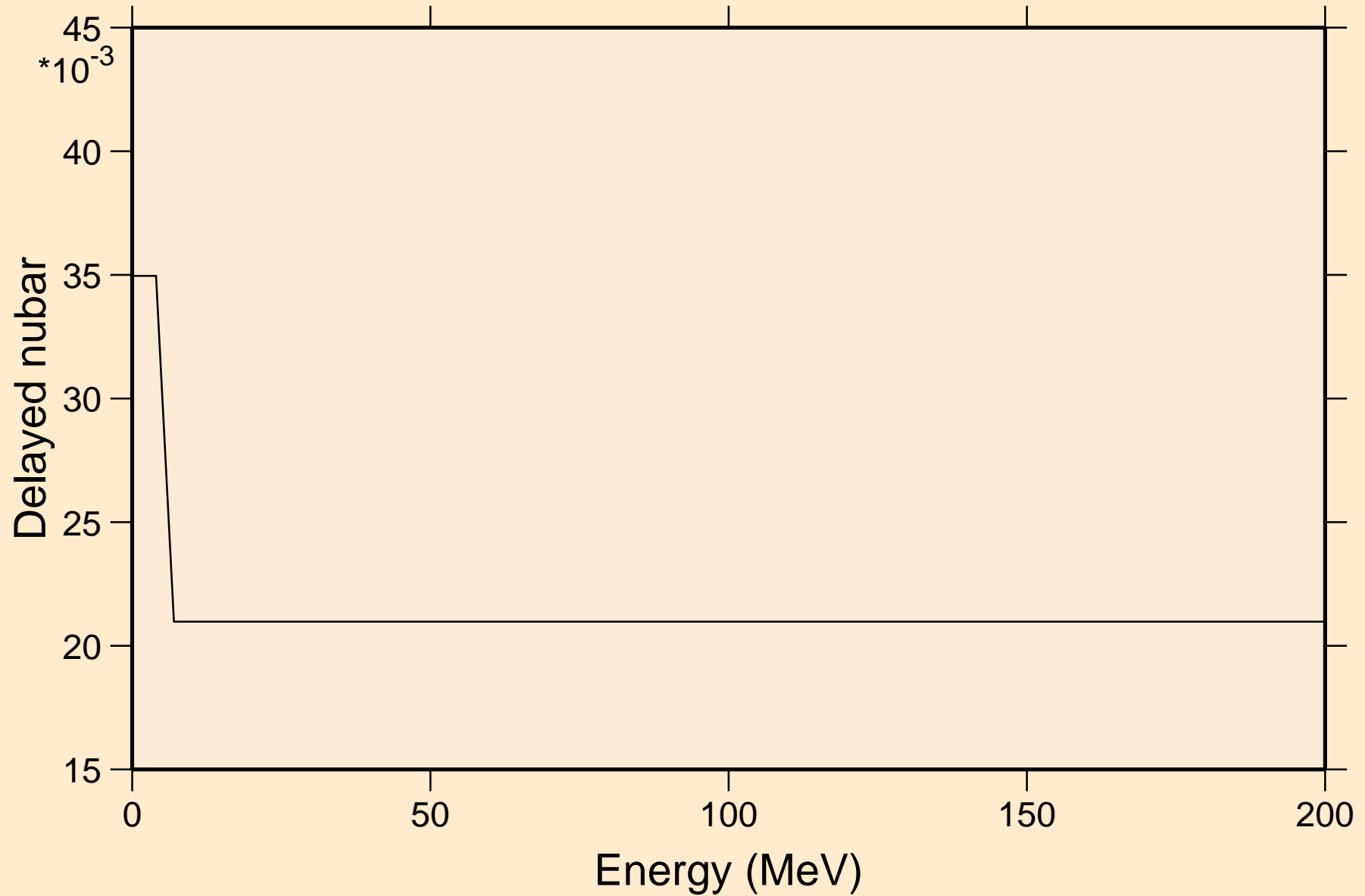


U239 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,n\*c)



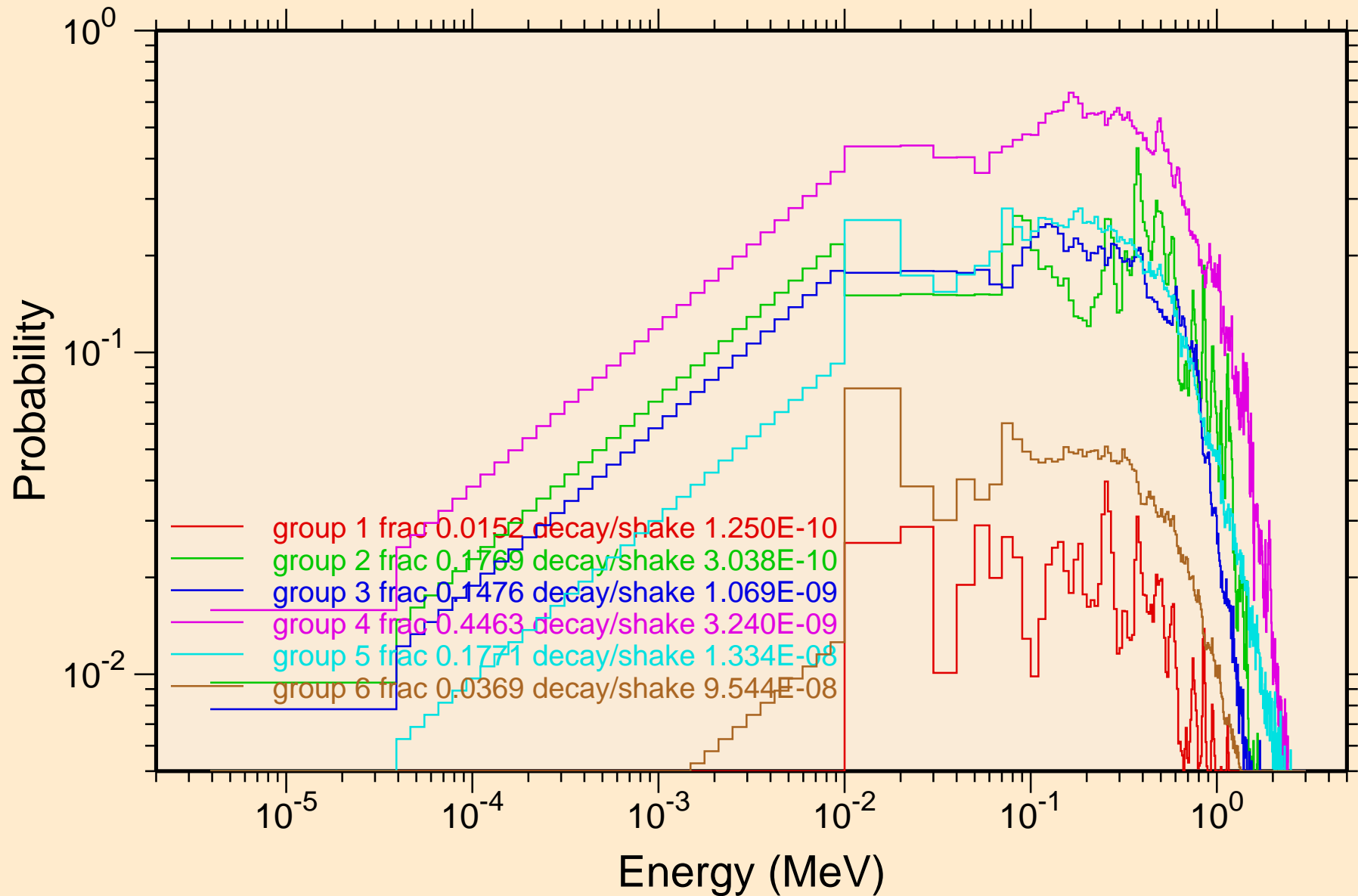
# U239 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

## Delayed nubar

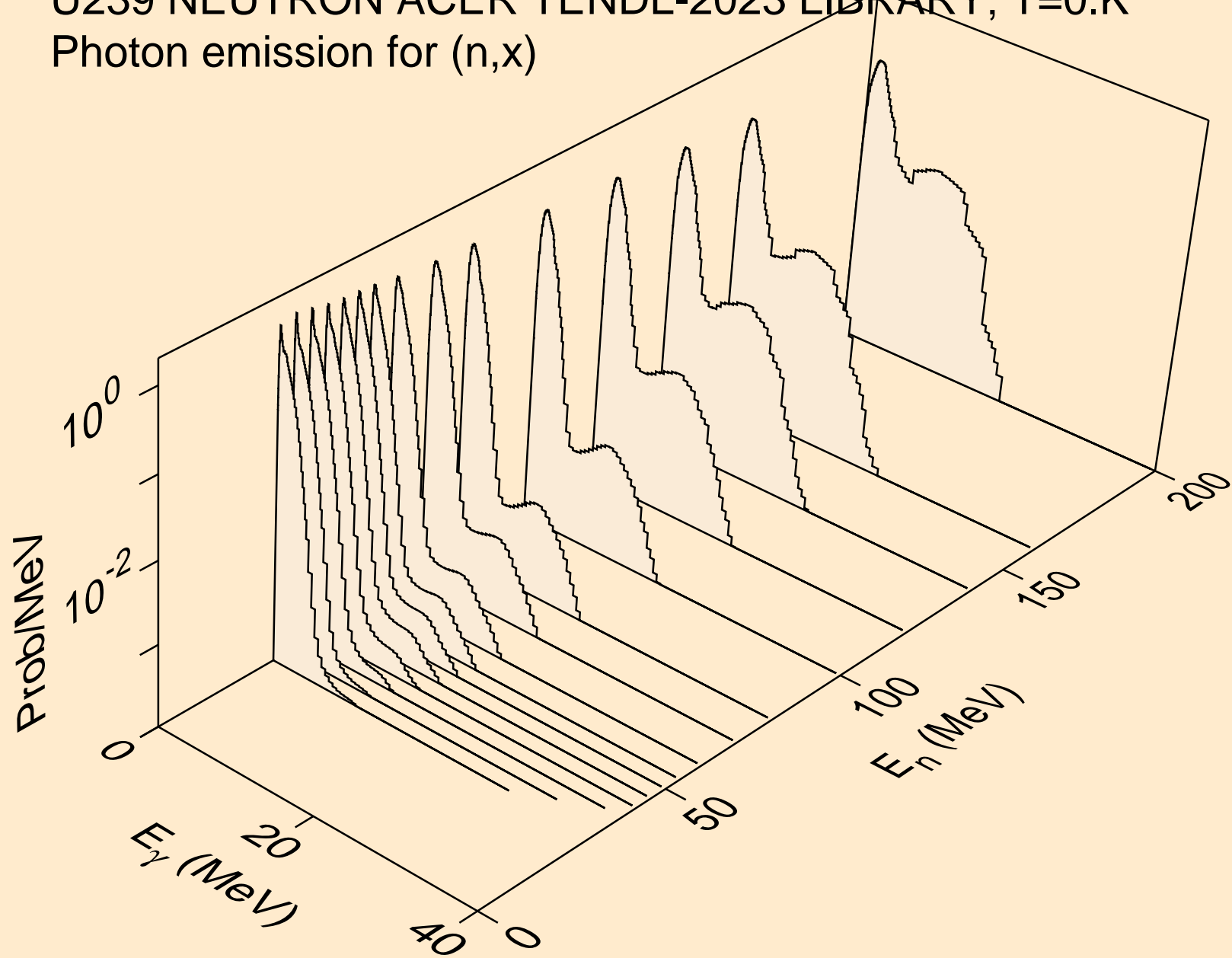


# U239 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

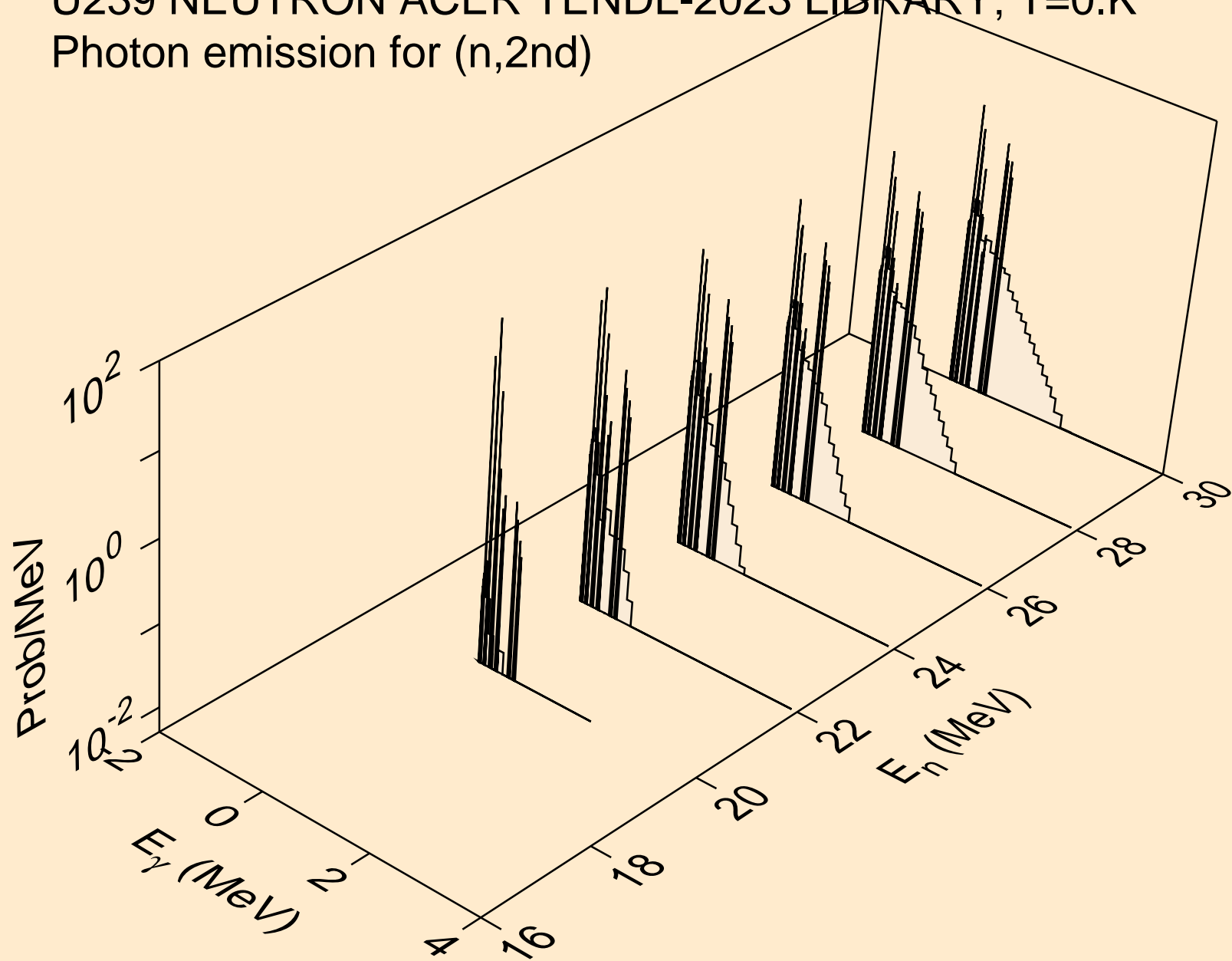
## Delayed neutron spectra



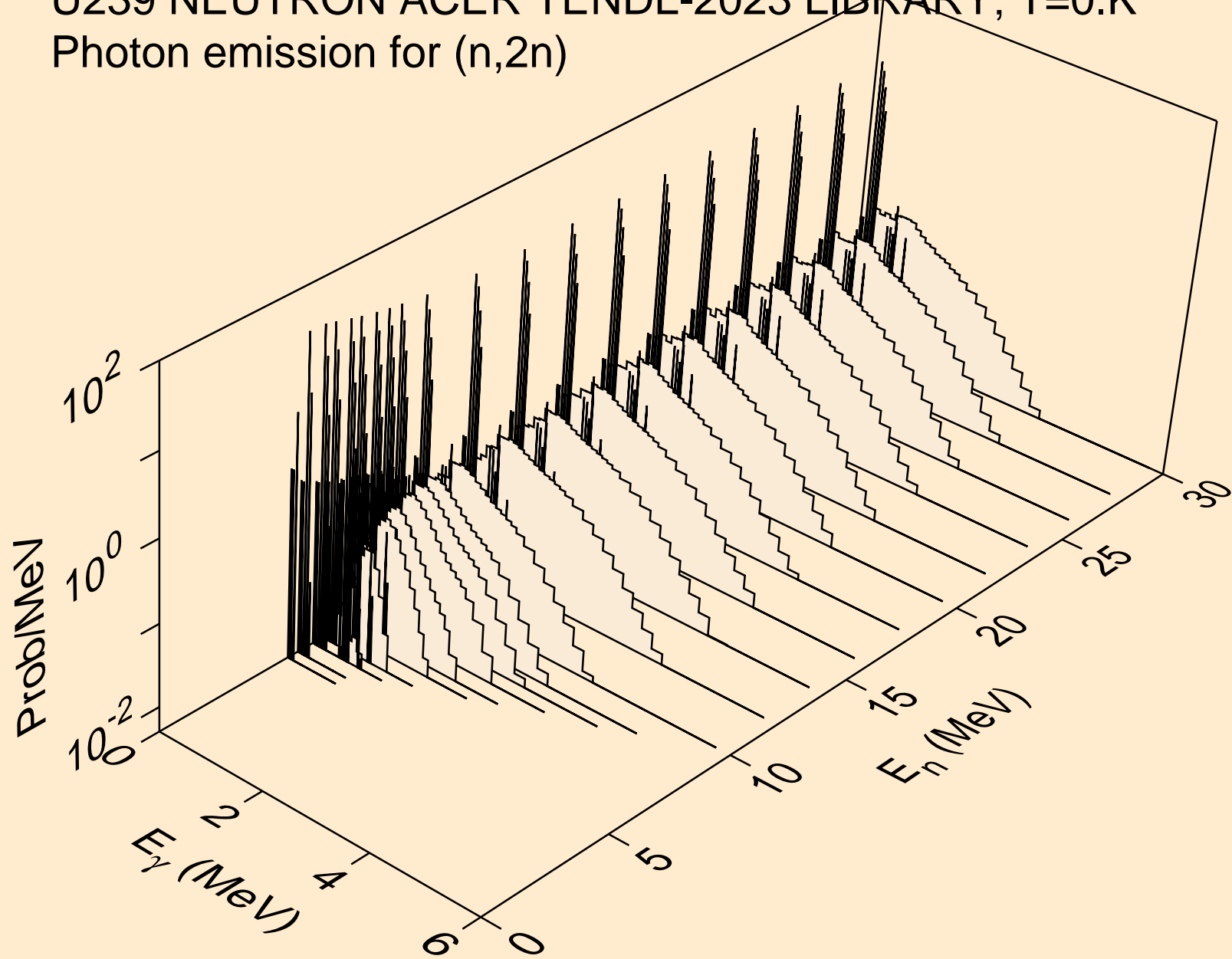
U239 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,x)



U239 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2nd)

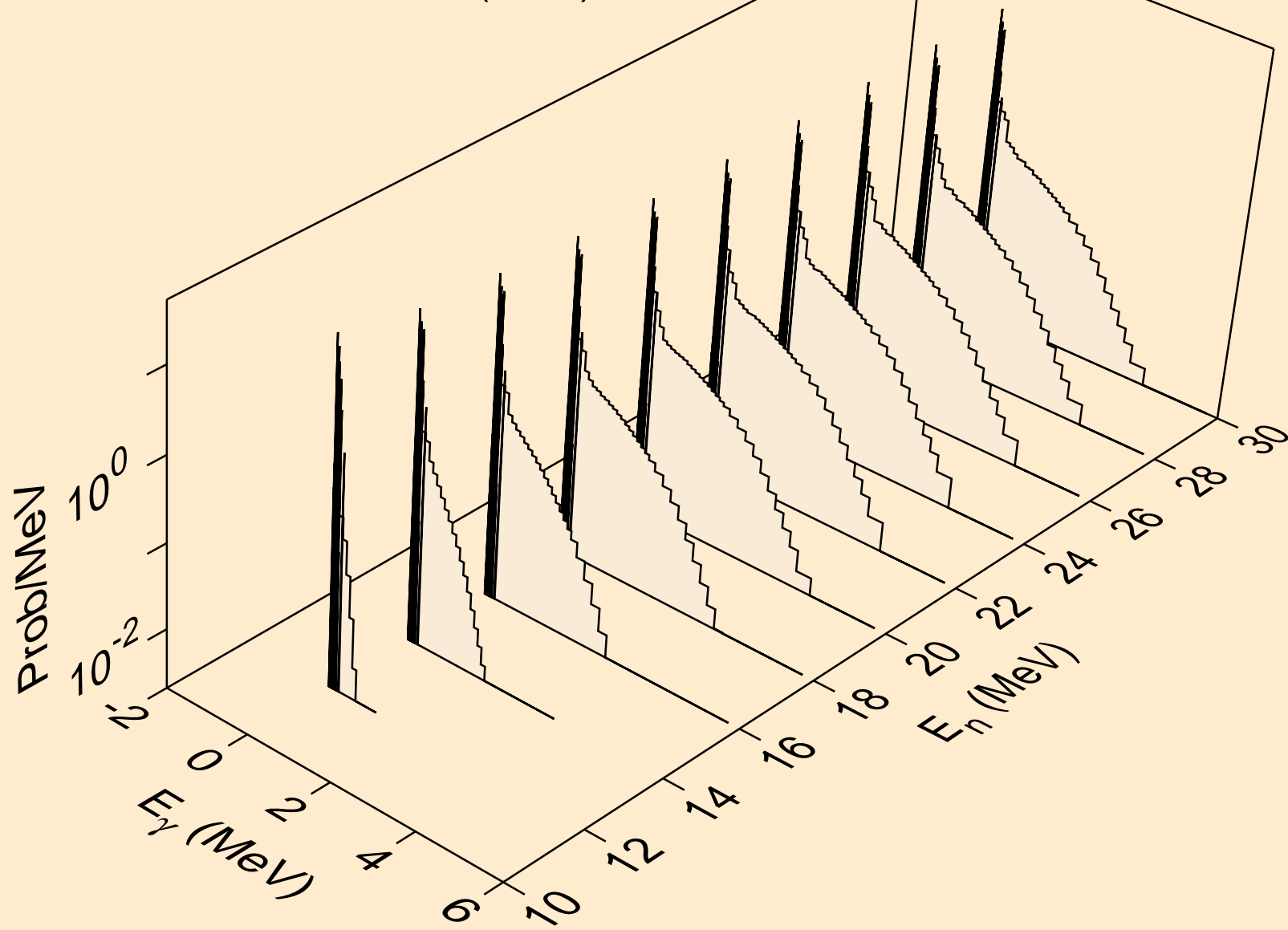


U239 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2n)

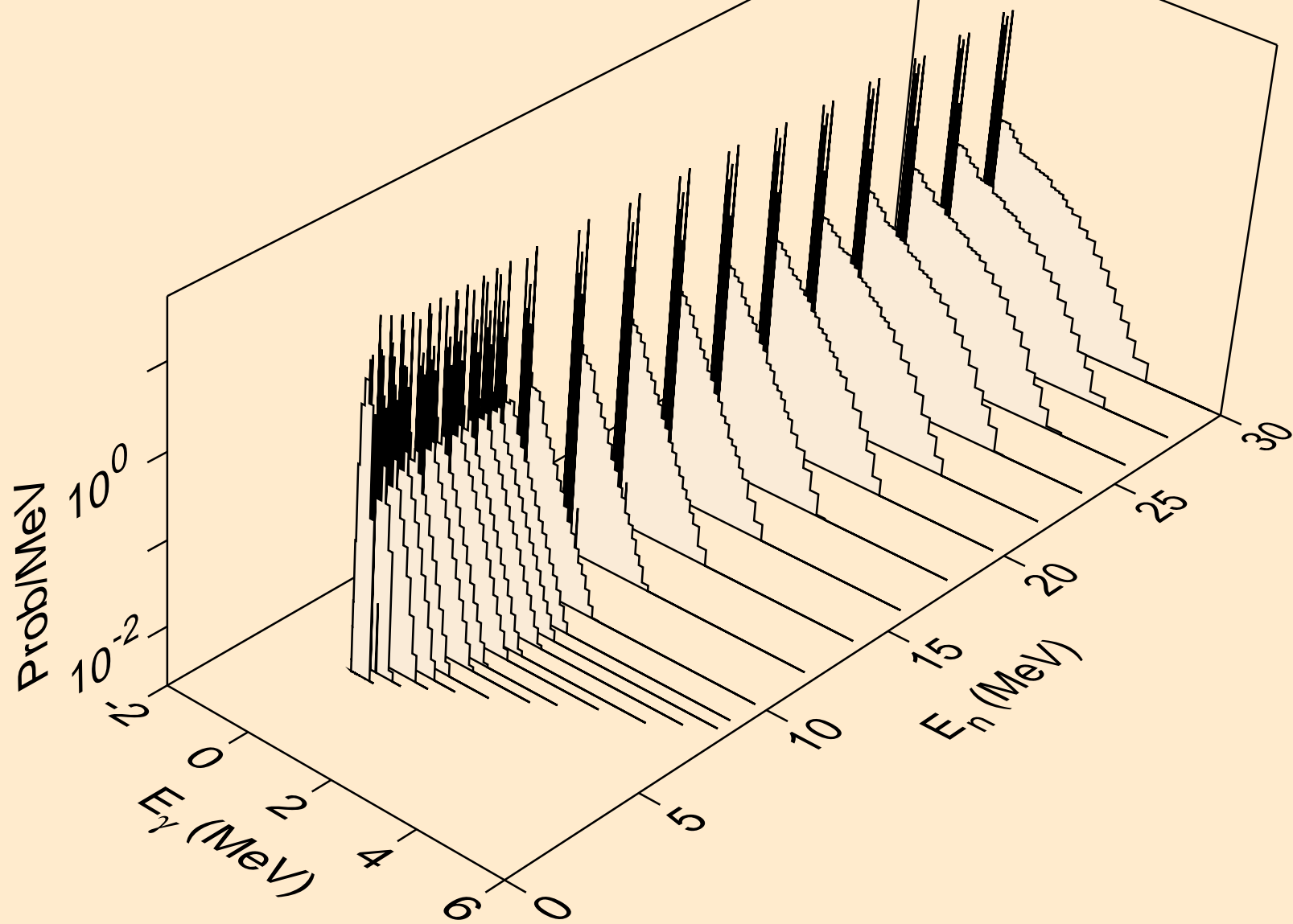




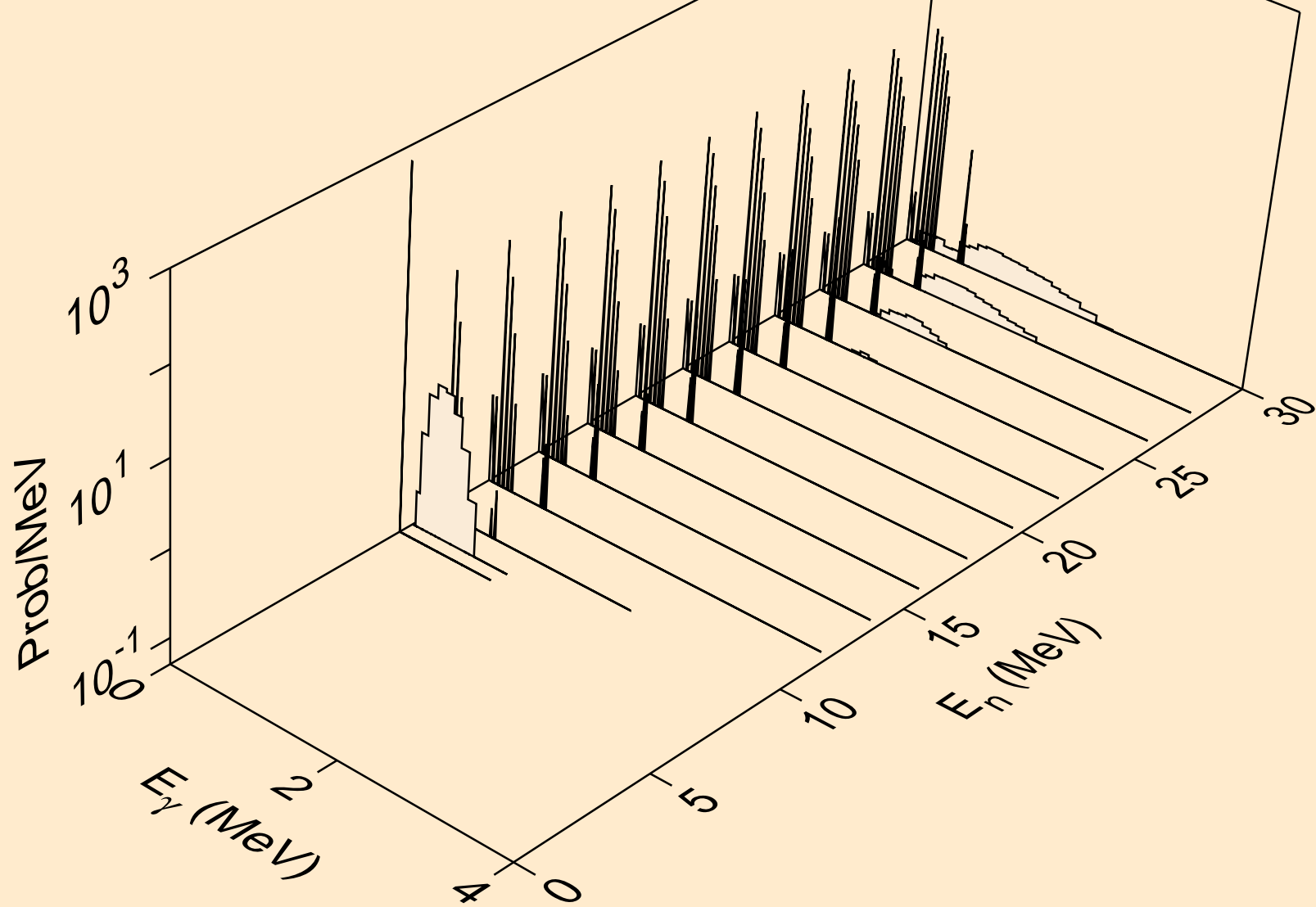
U239 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,3n)



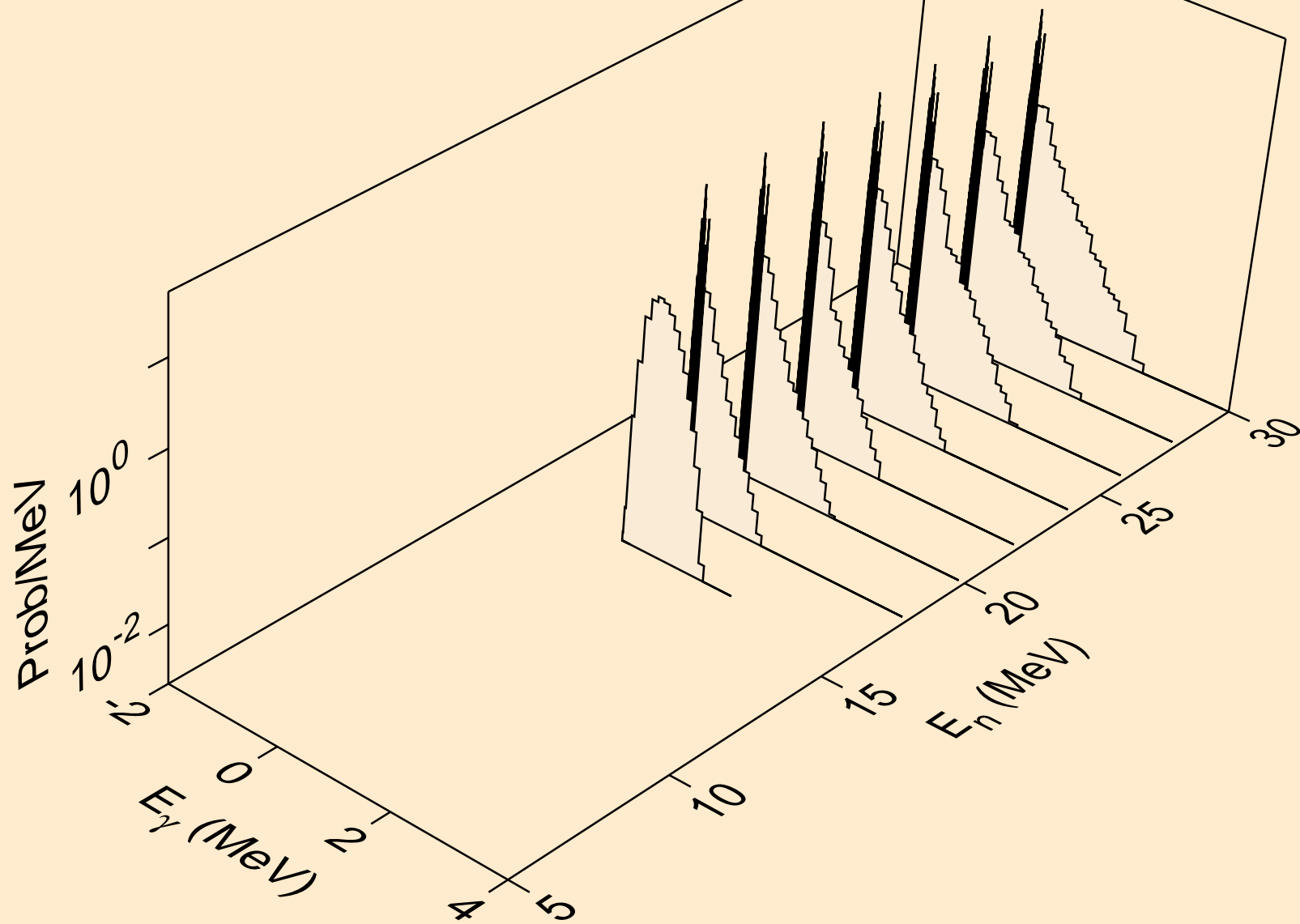
U239 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)a



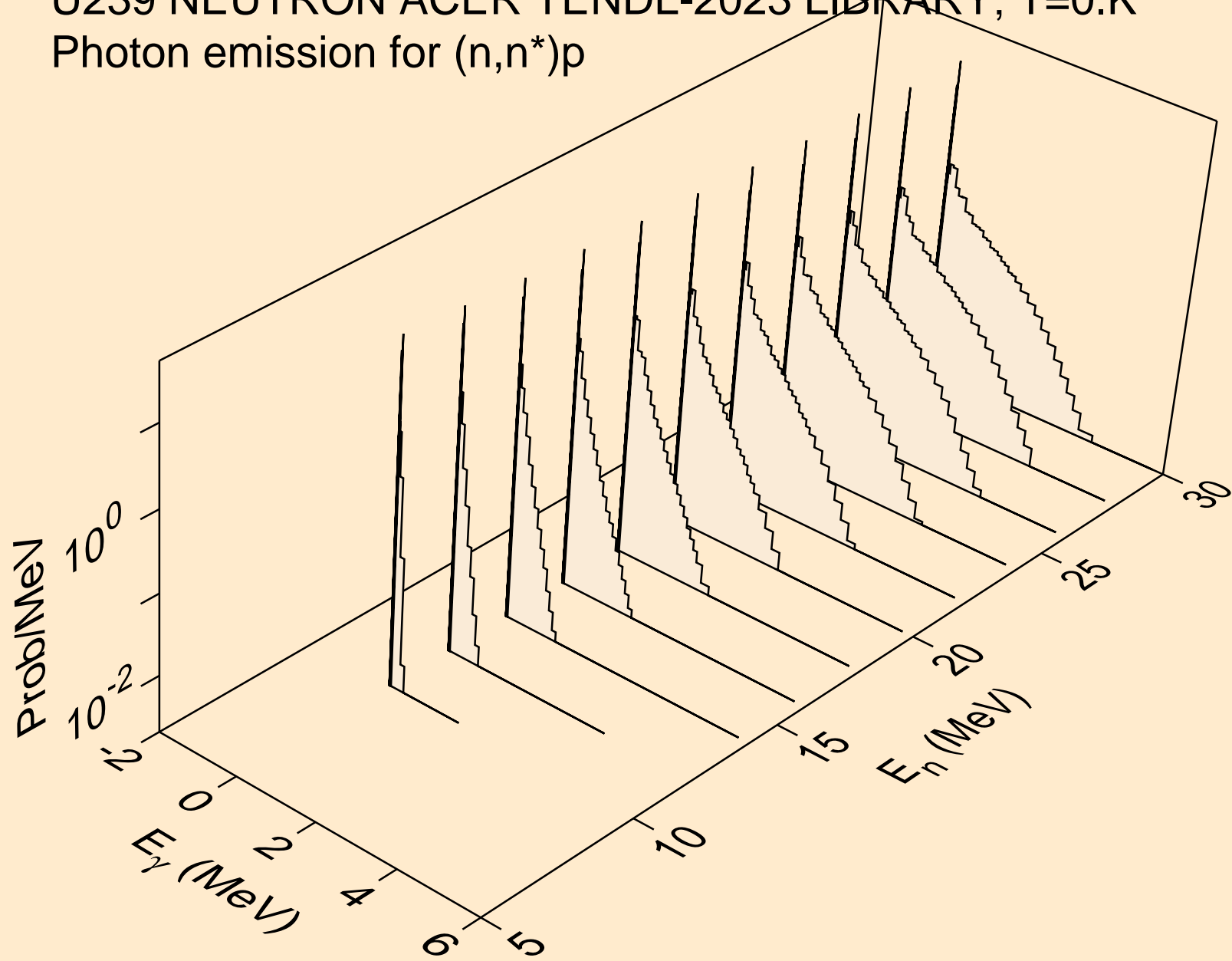
U239 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2n)a



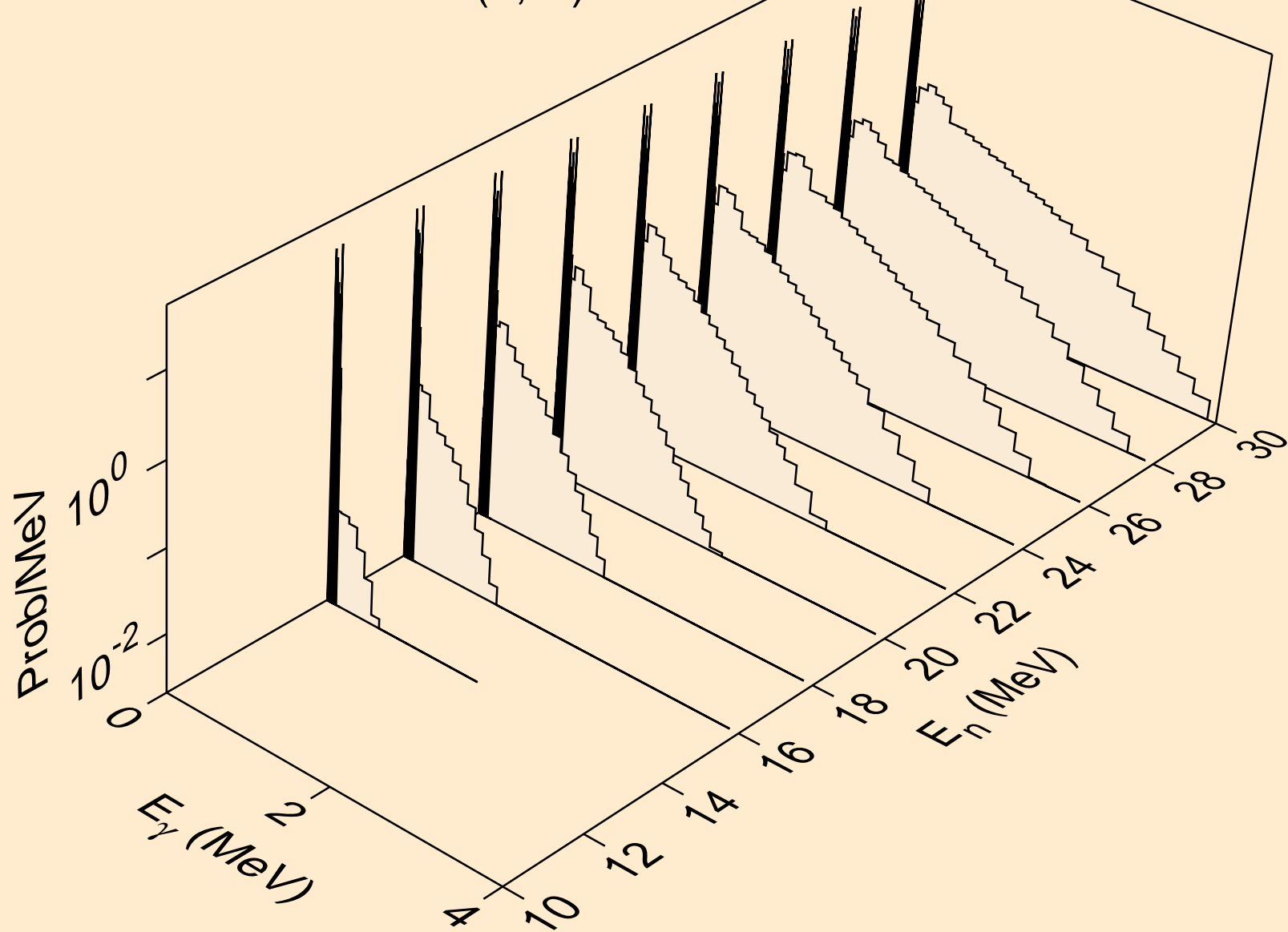
U239 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,3n)a



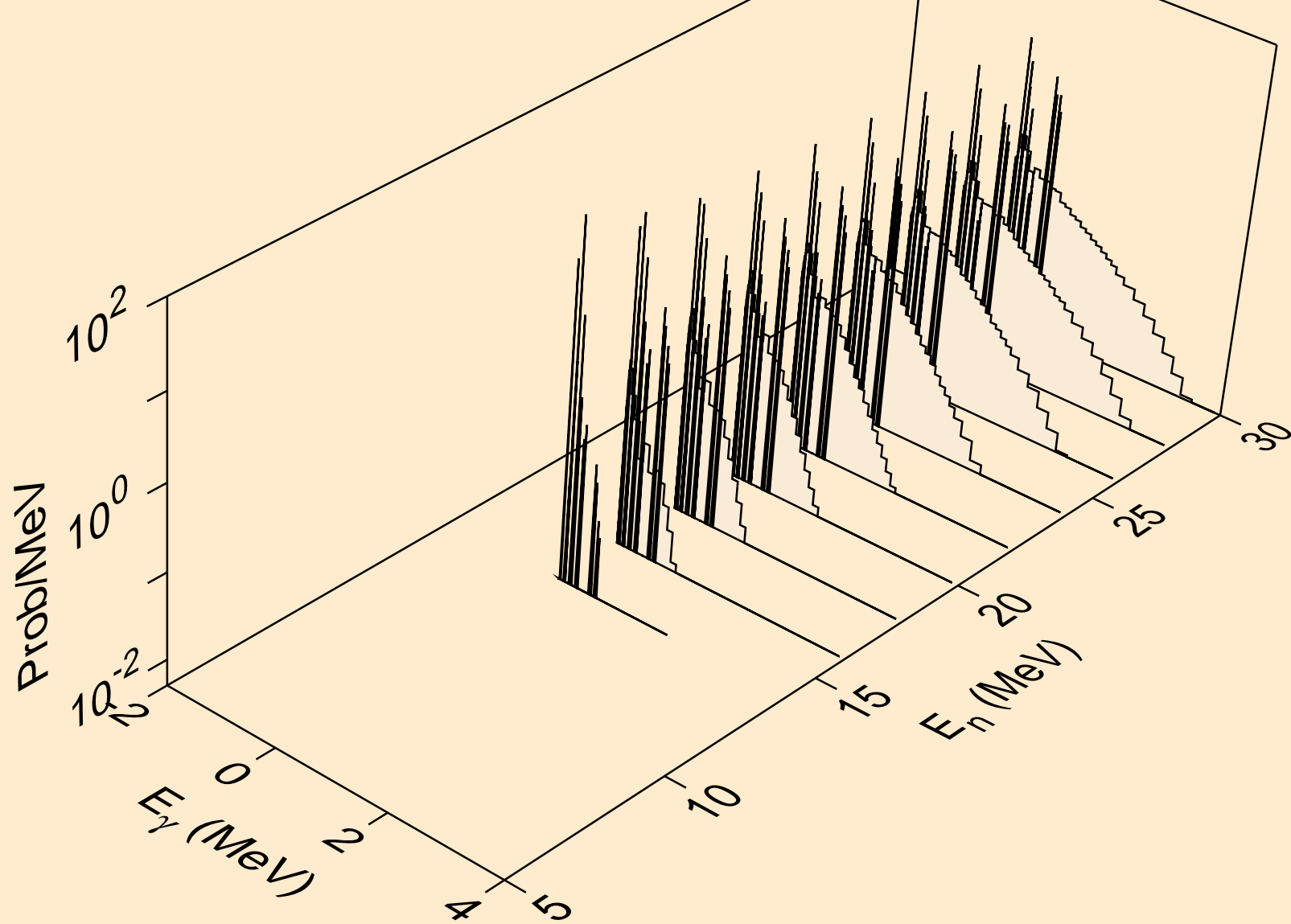
U239 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)p



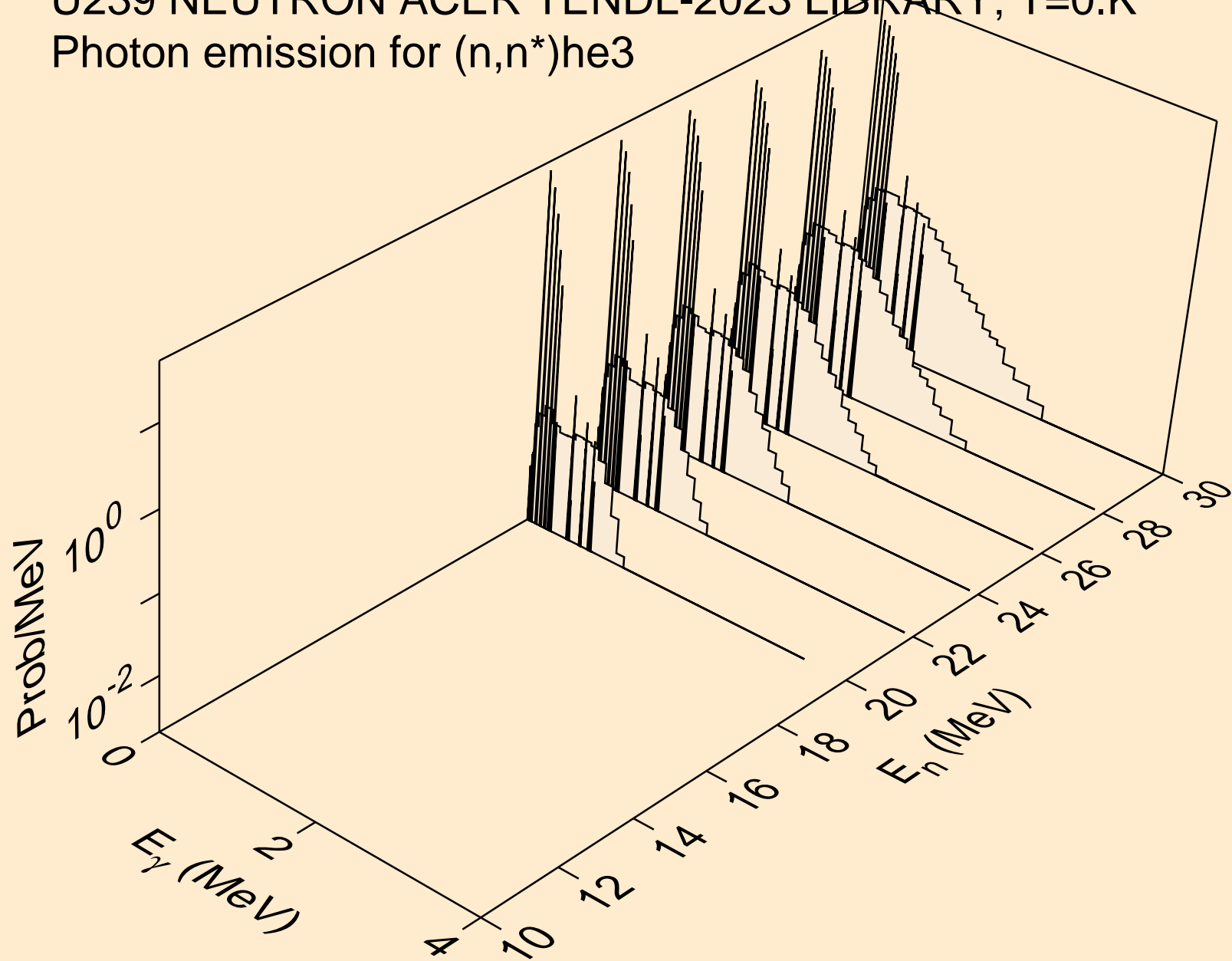
U239 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)d



U239 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)t

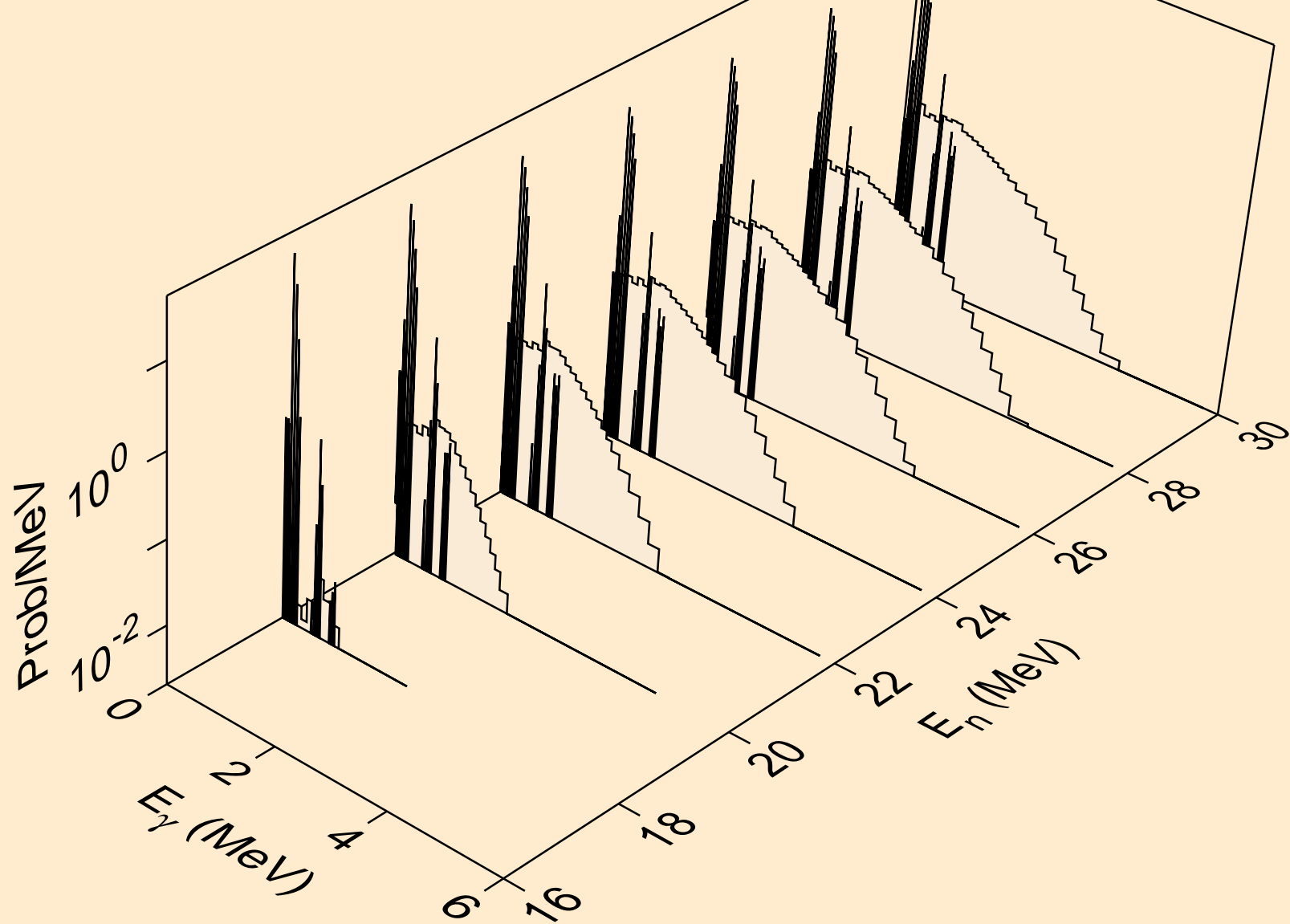


U239 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)he3

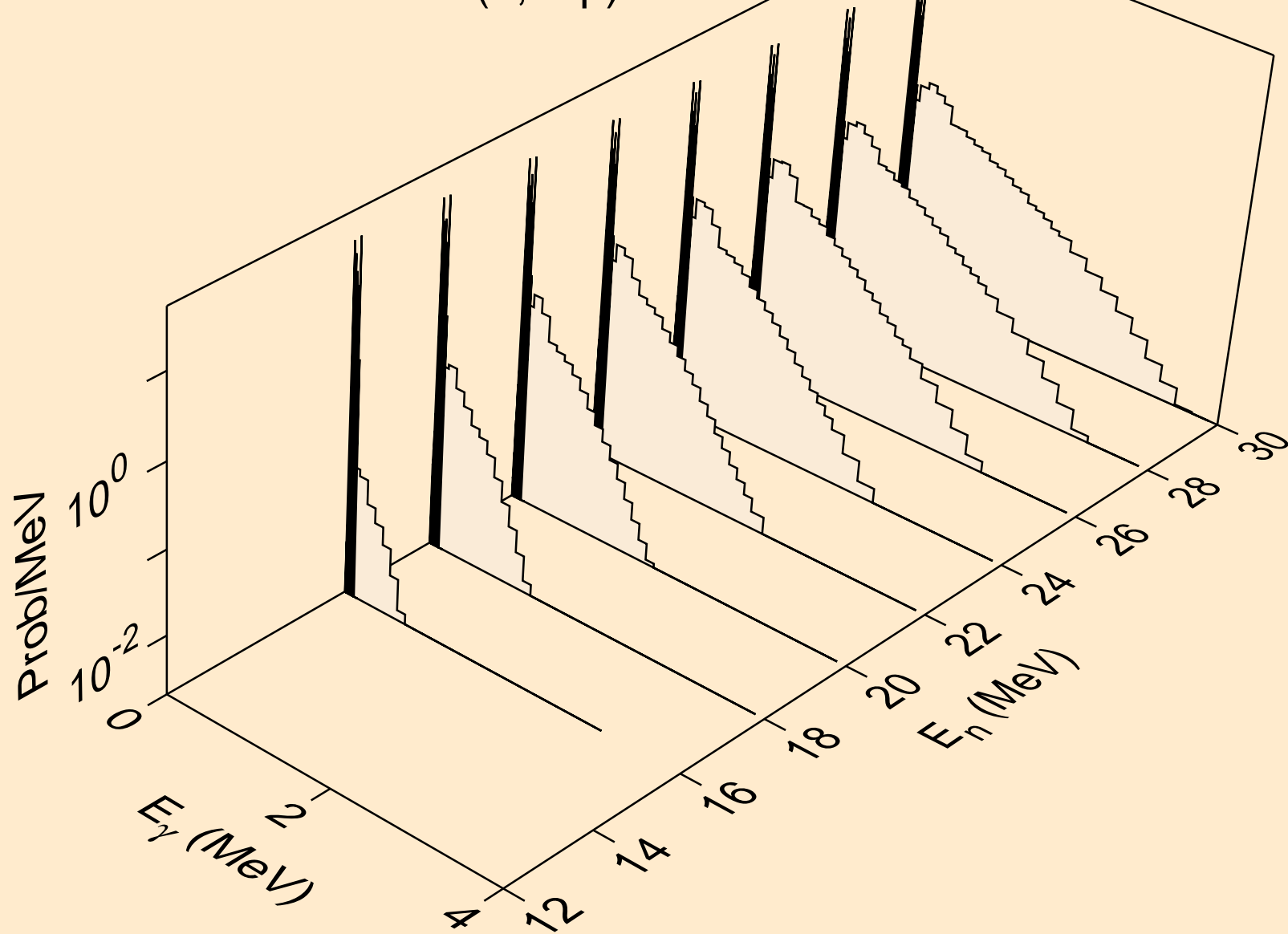




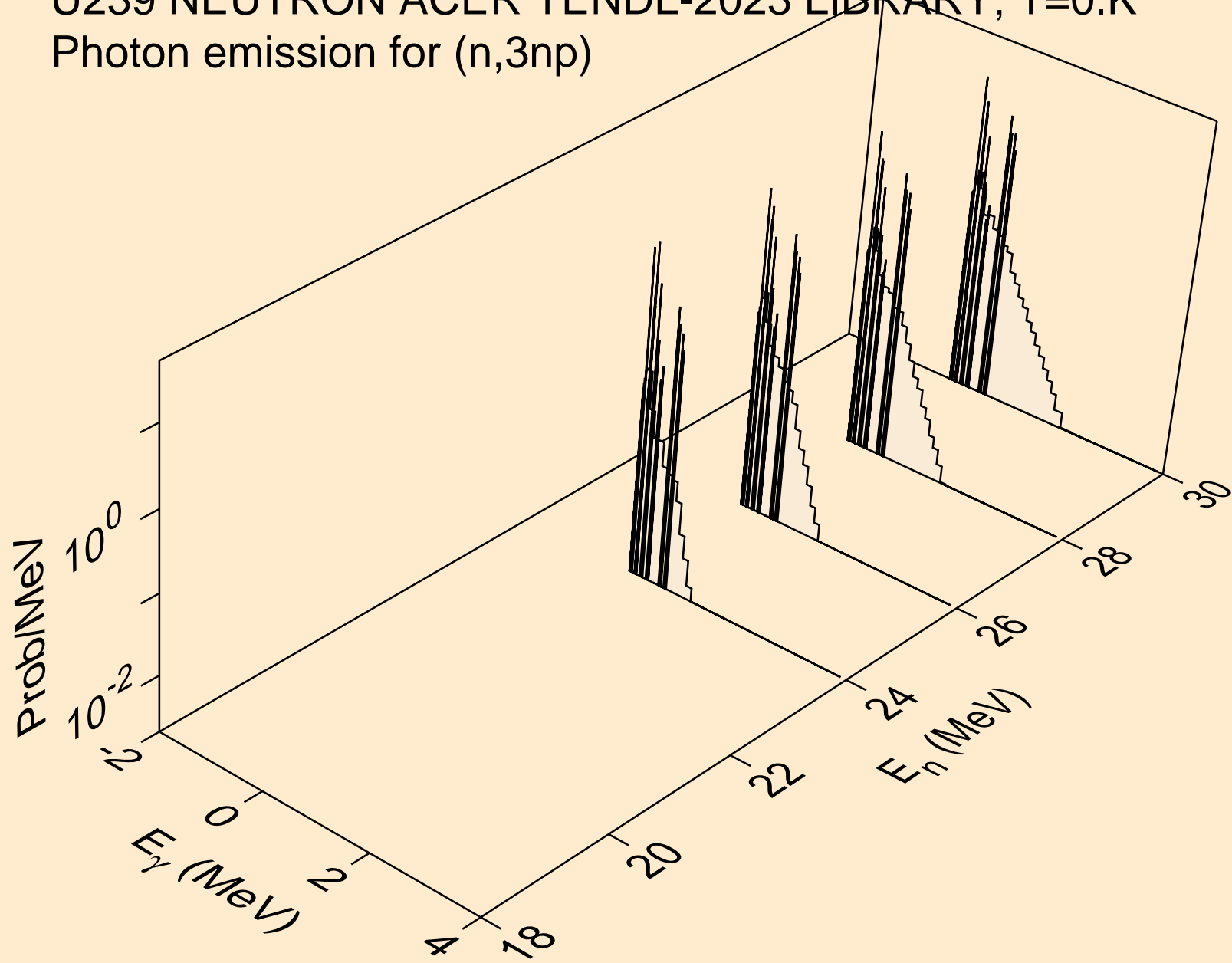
U239 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,4n)



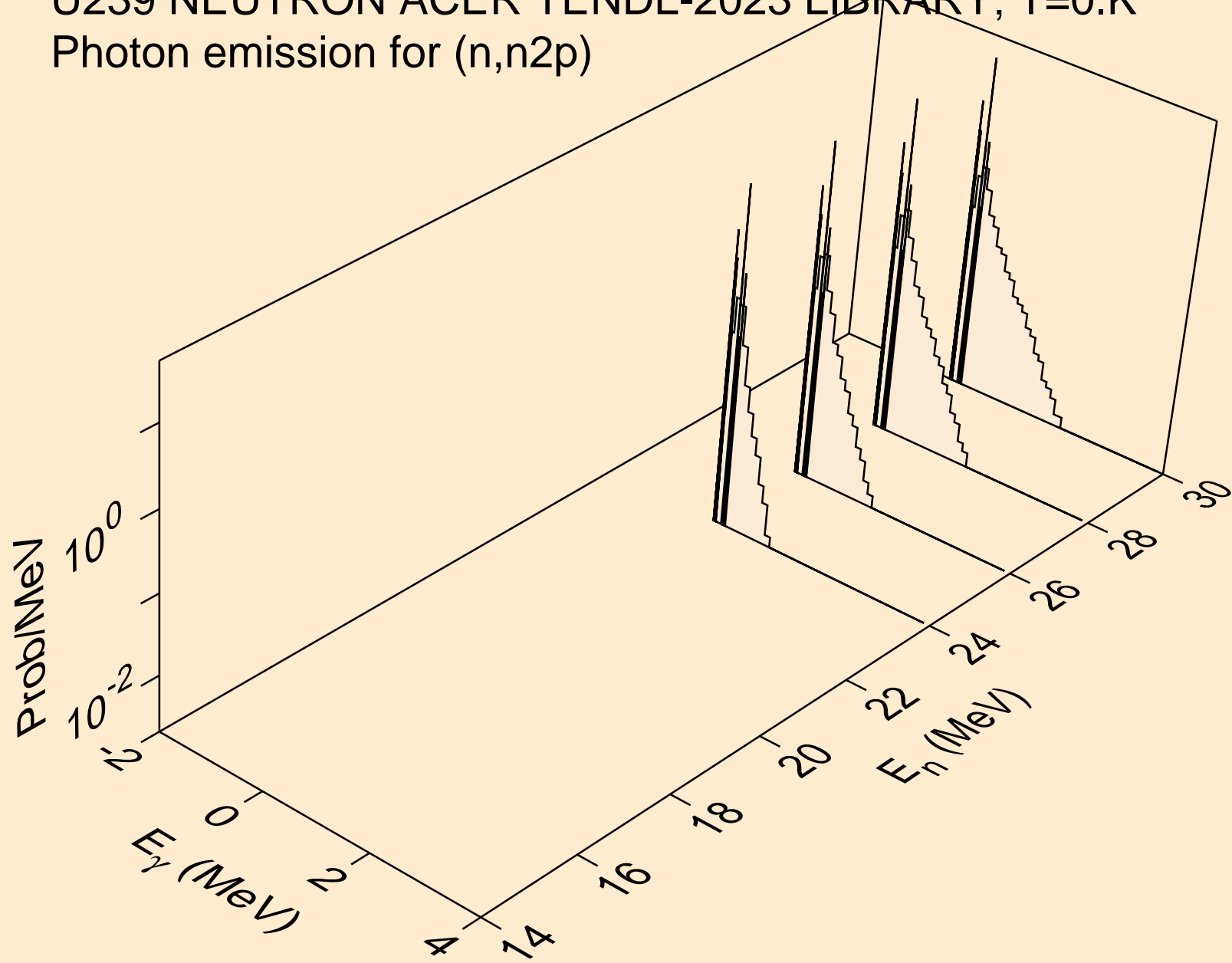
U239 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2np)



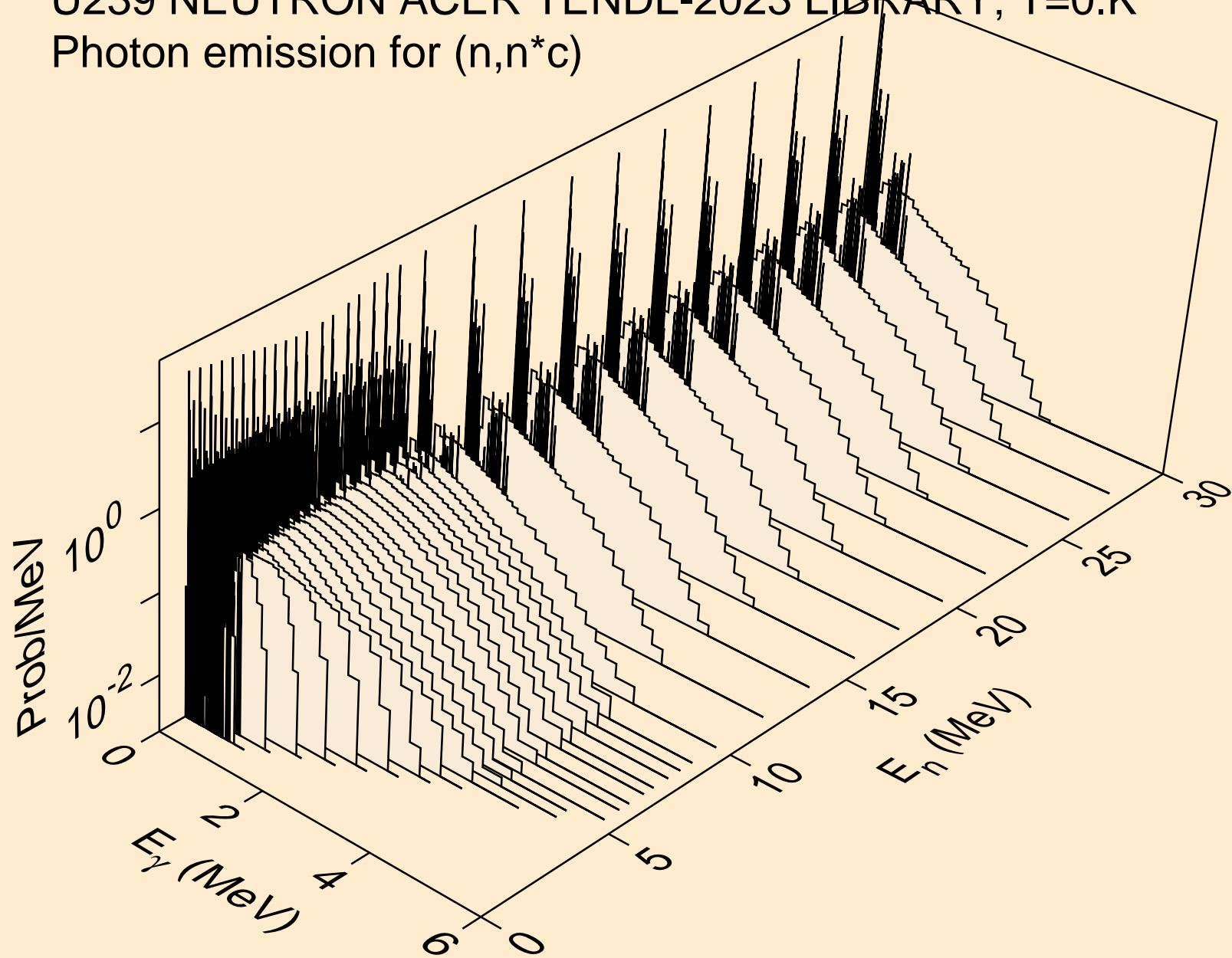
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Photon emission for (n,3np)



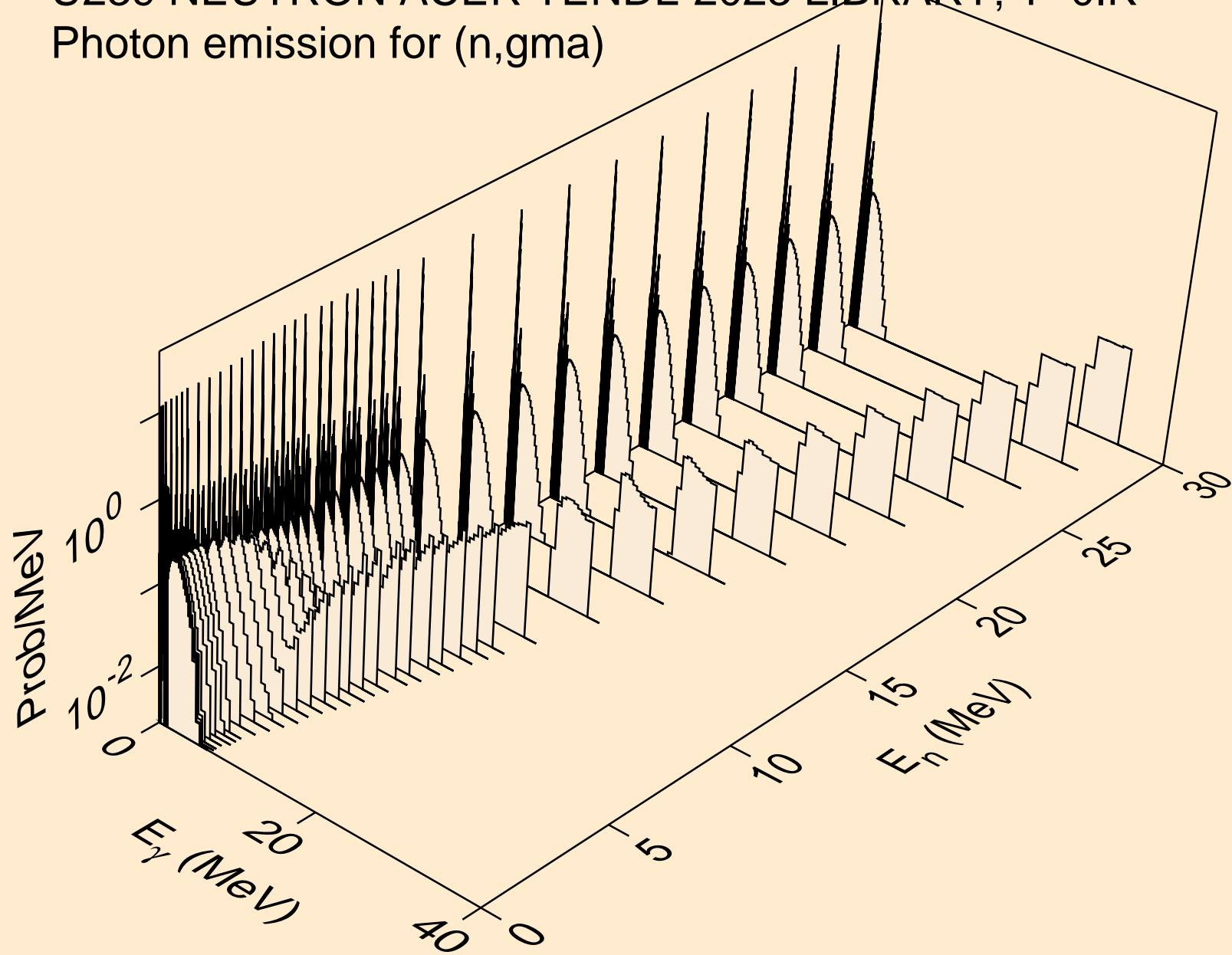
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Photon emission for (n,n2p)



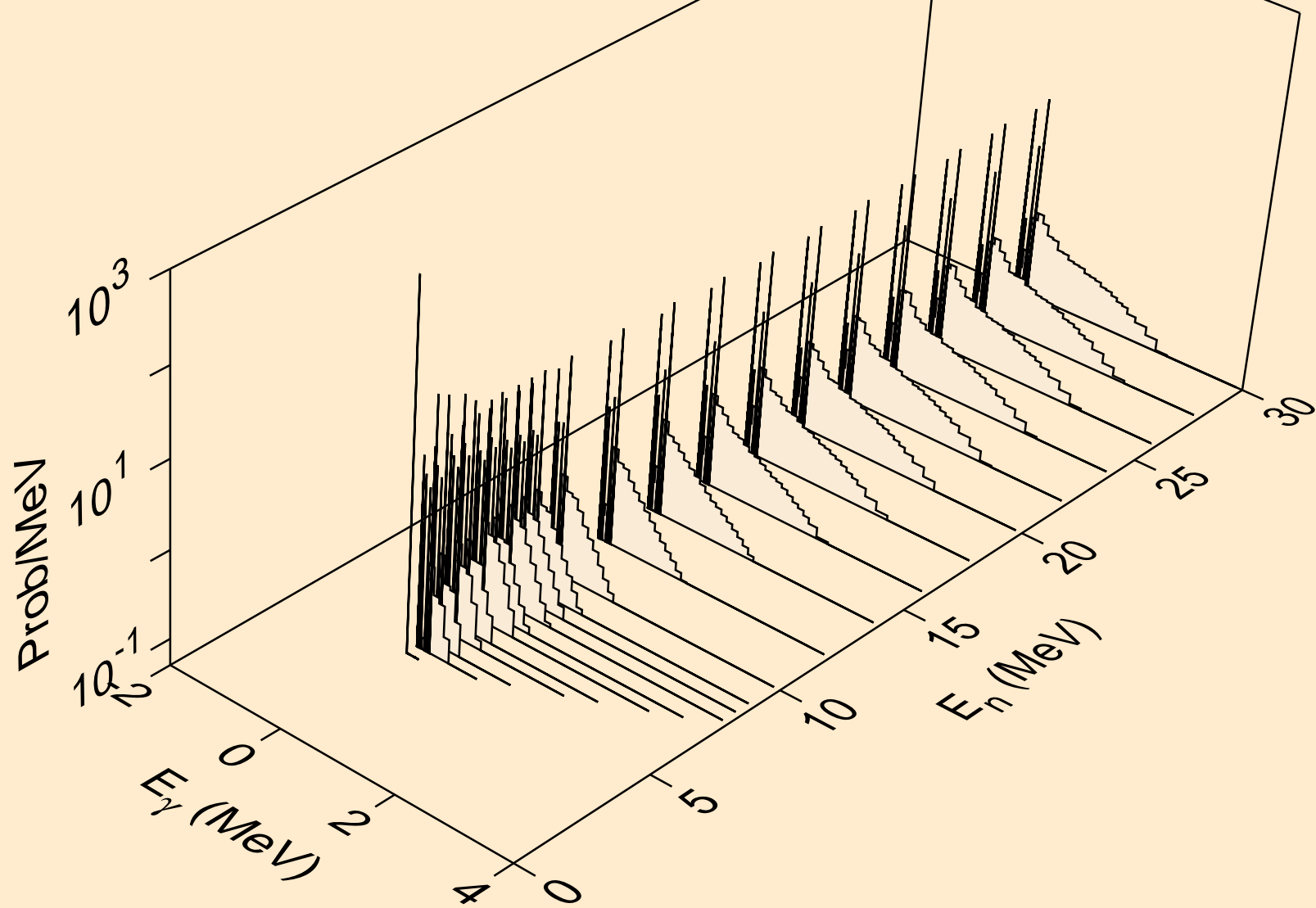
U239 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*c)



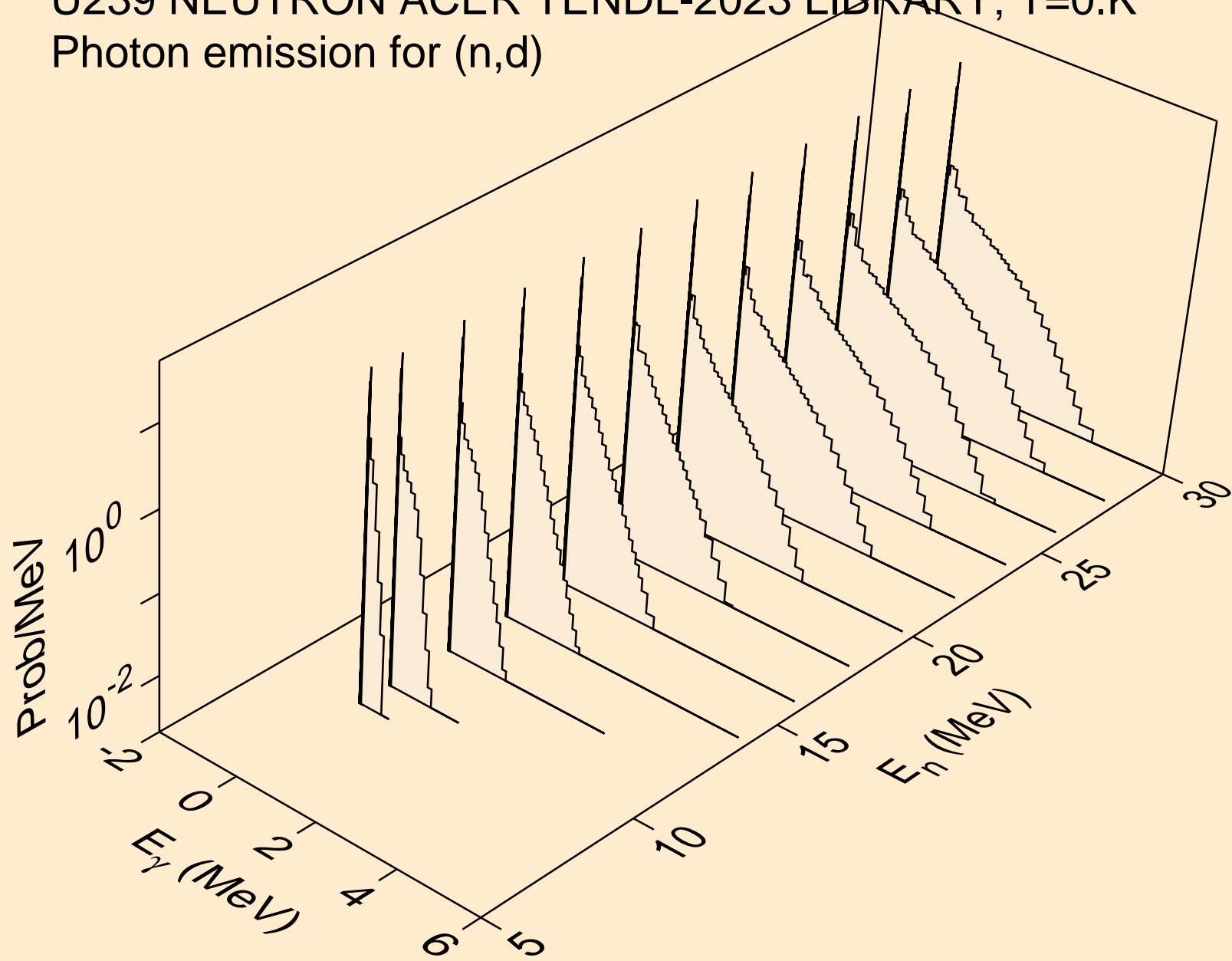
U239 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,gma)



U239 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,p)

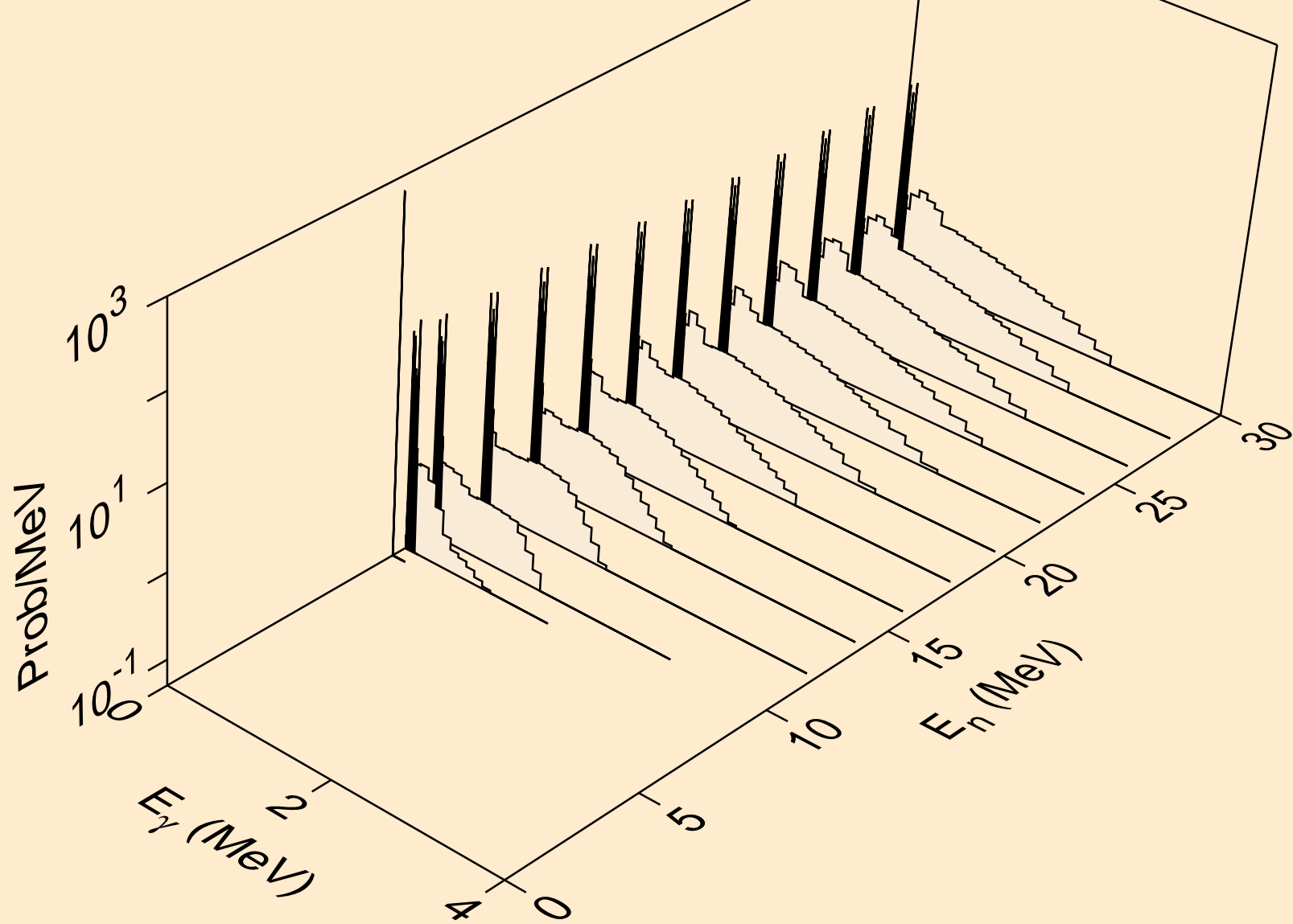


U239 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,d)

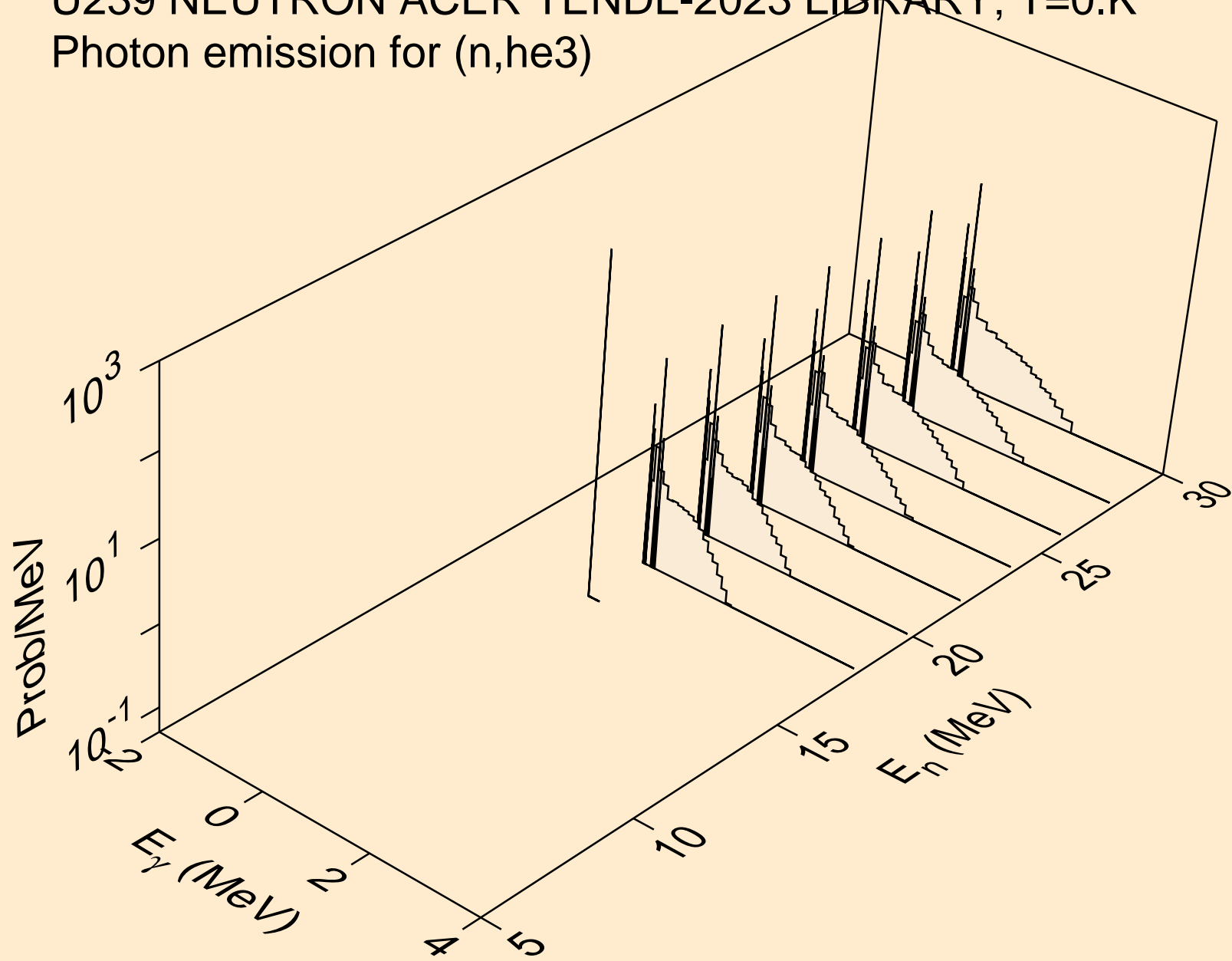




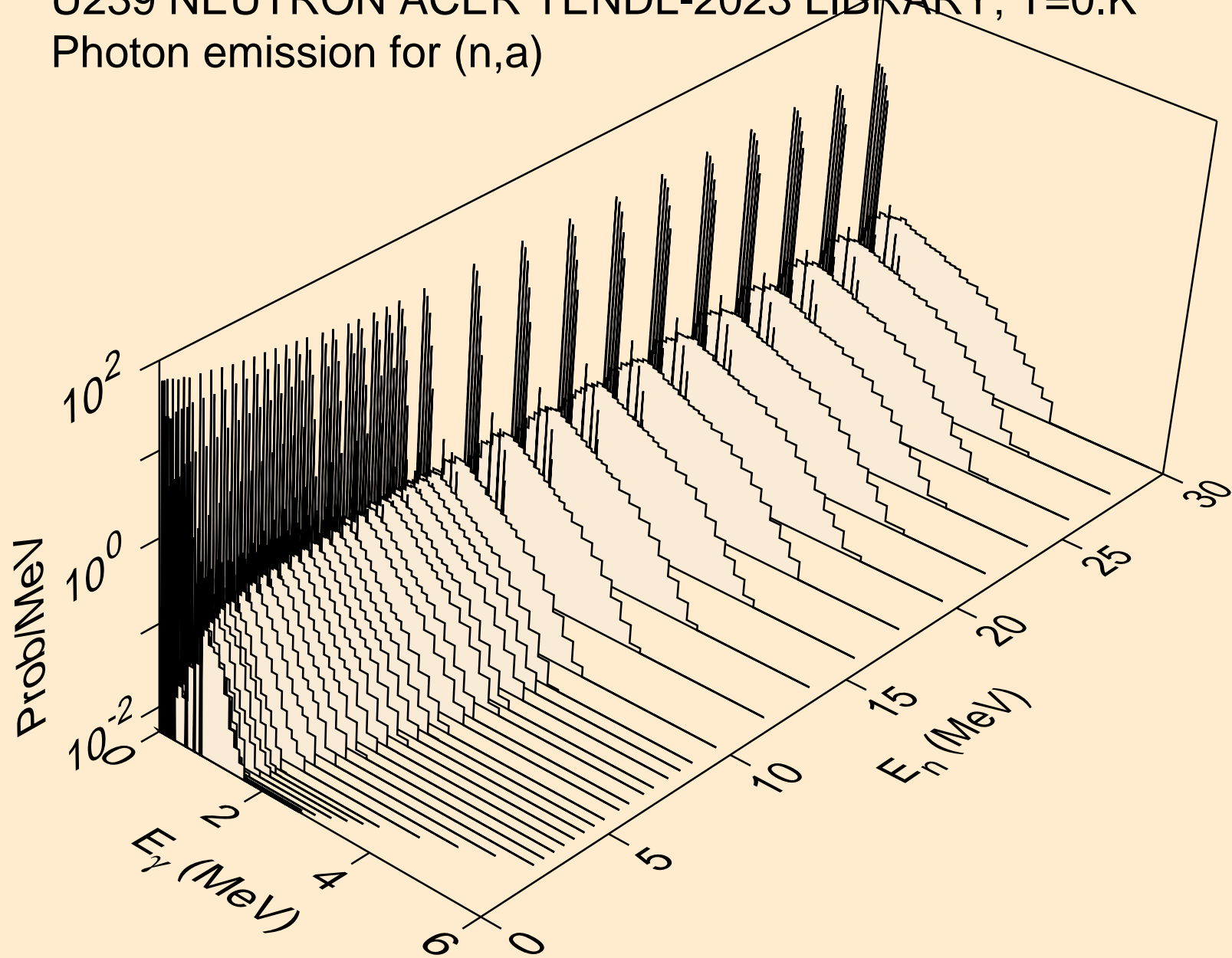
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Photon emission for (n,t)



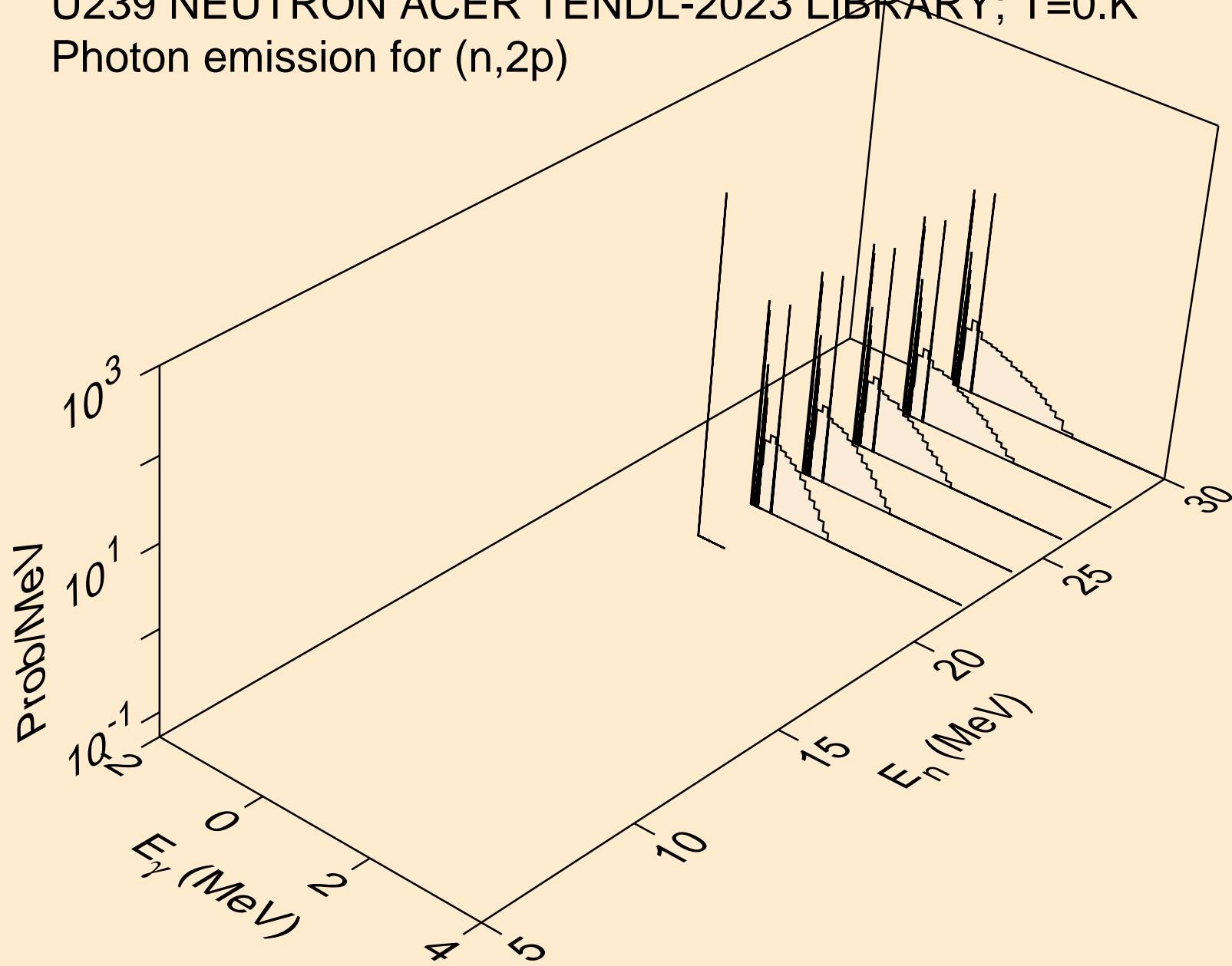
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Photon emission for (n,he3)



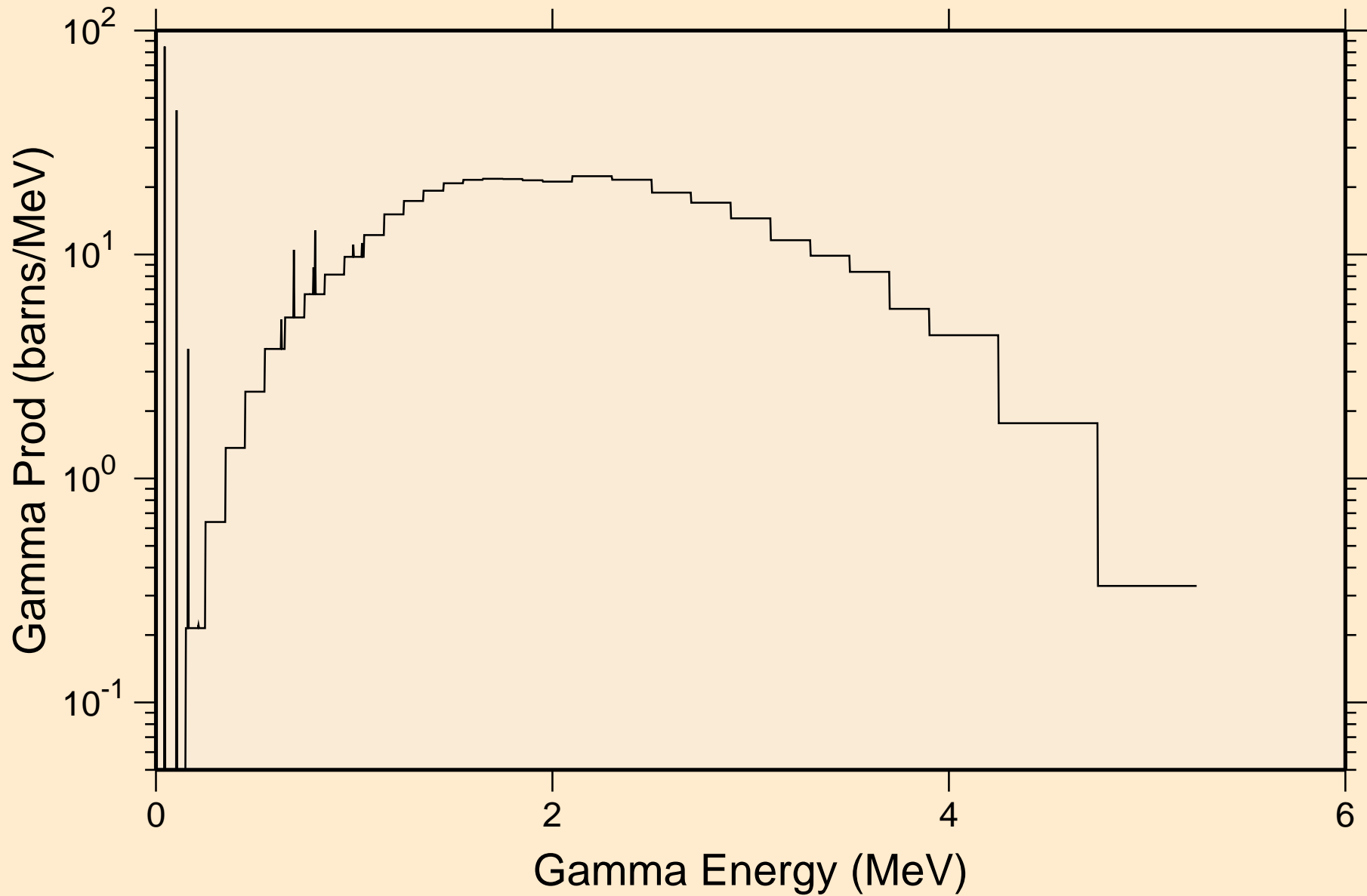
U239 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,a)



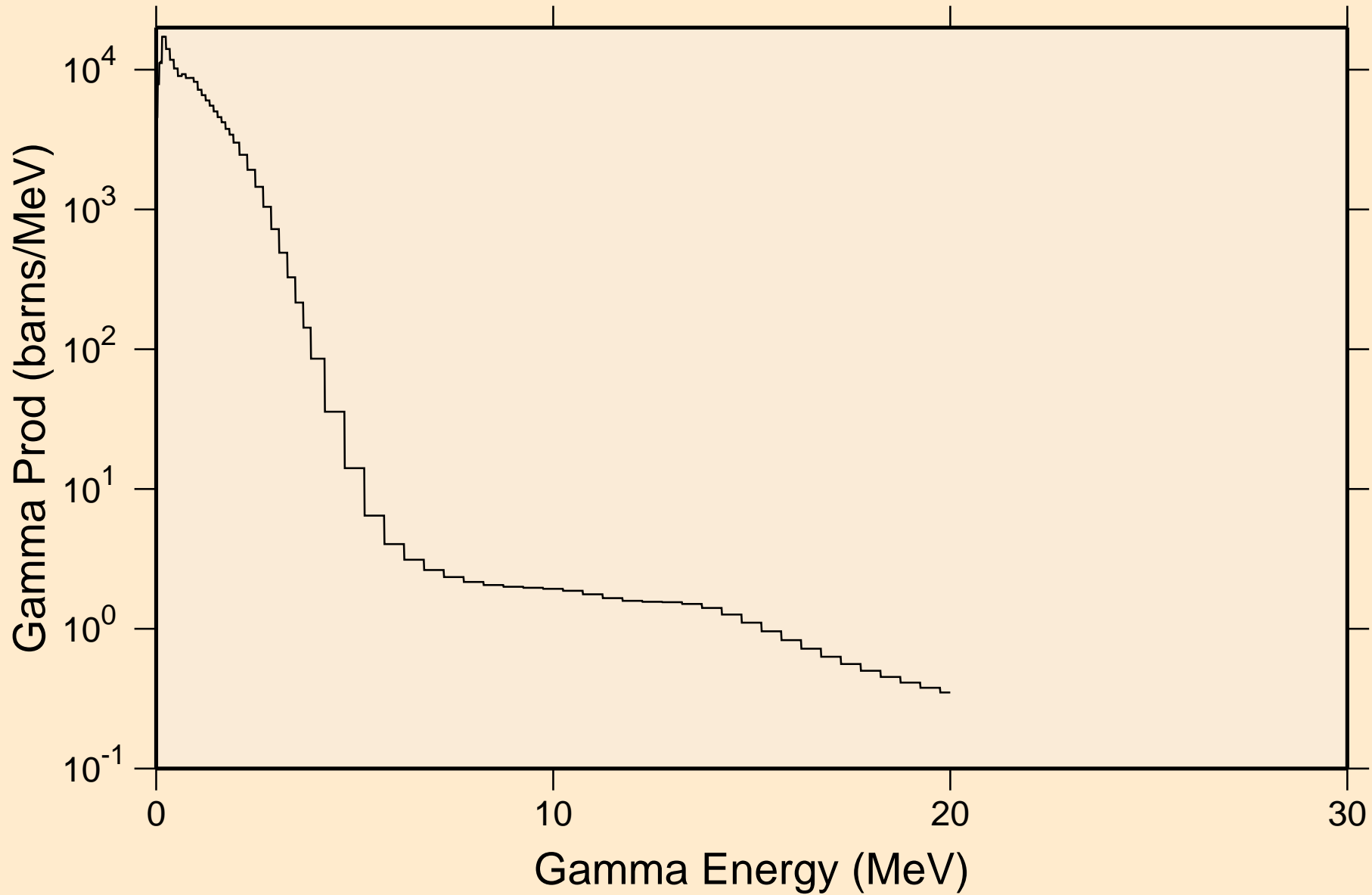
U239 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2p)



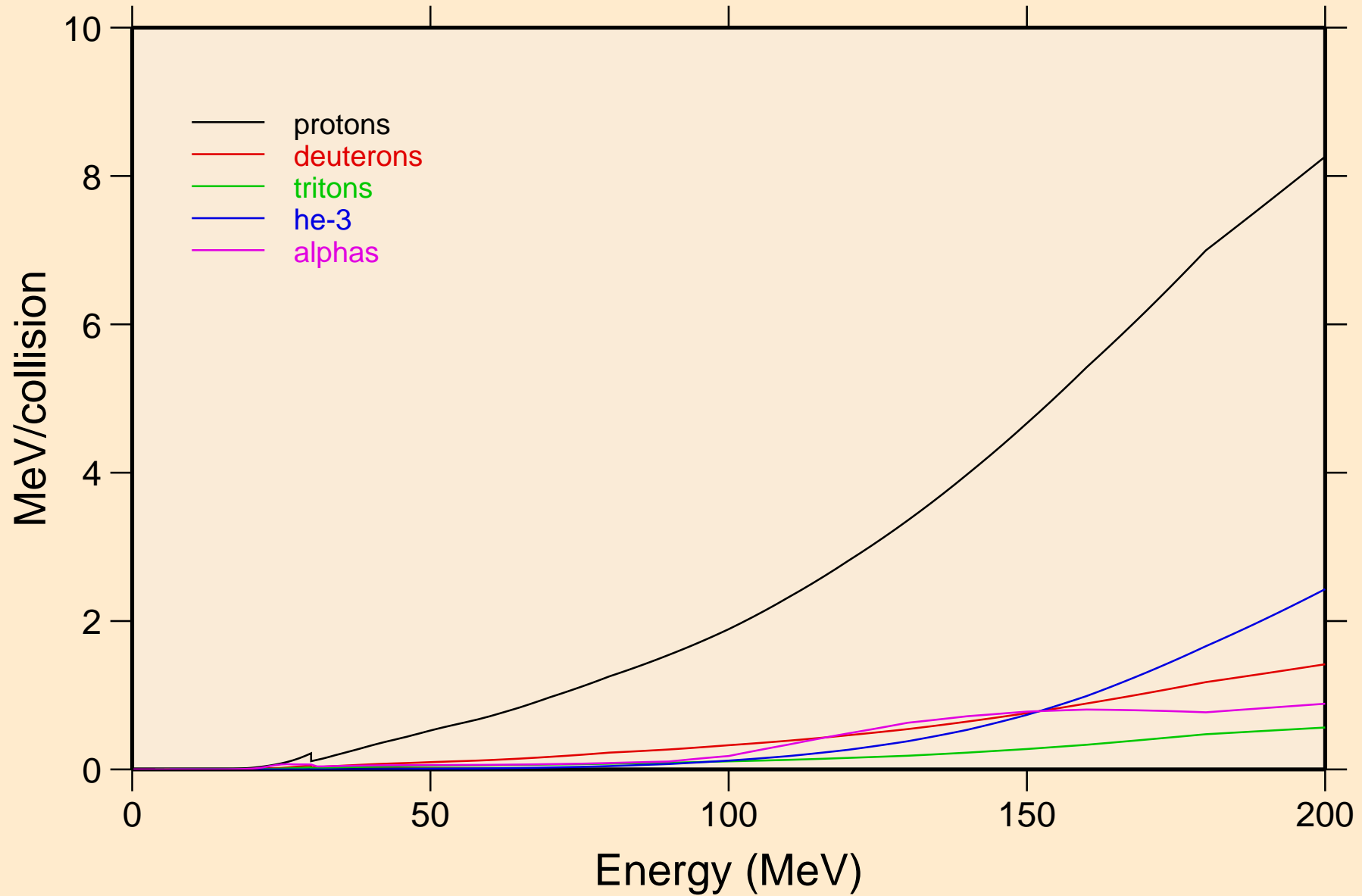
U239 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
thermal capture photon spectrum



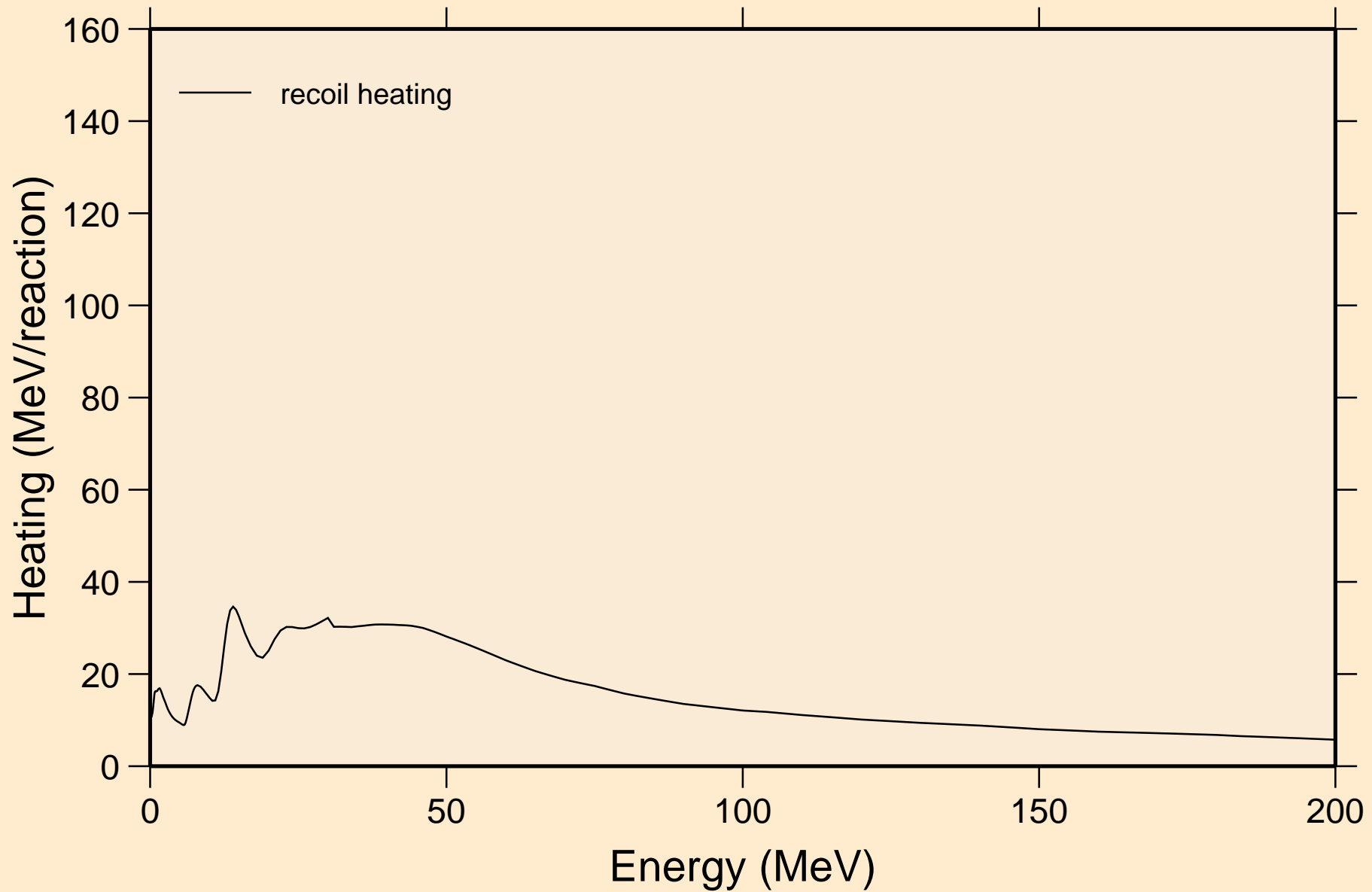
U239 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
14 MeV photon spectrum



U239 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Particle heating contributions



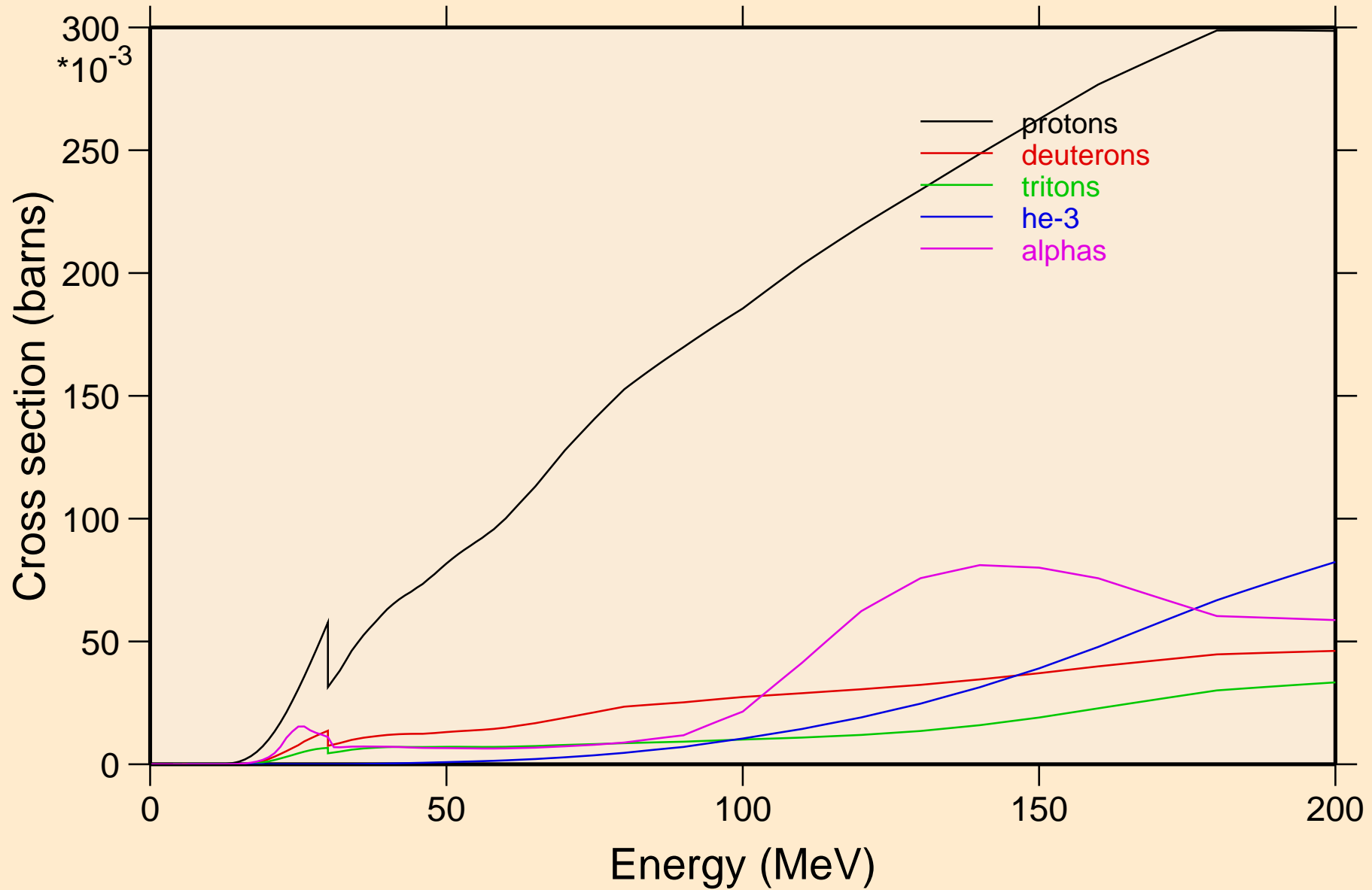
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Recoil Heating



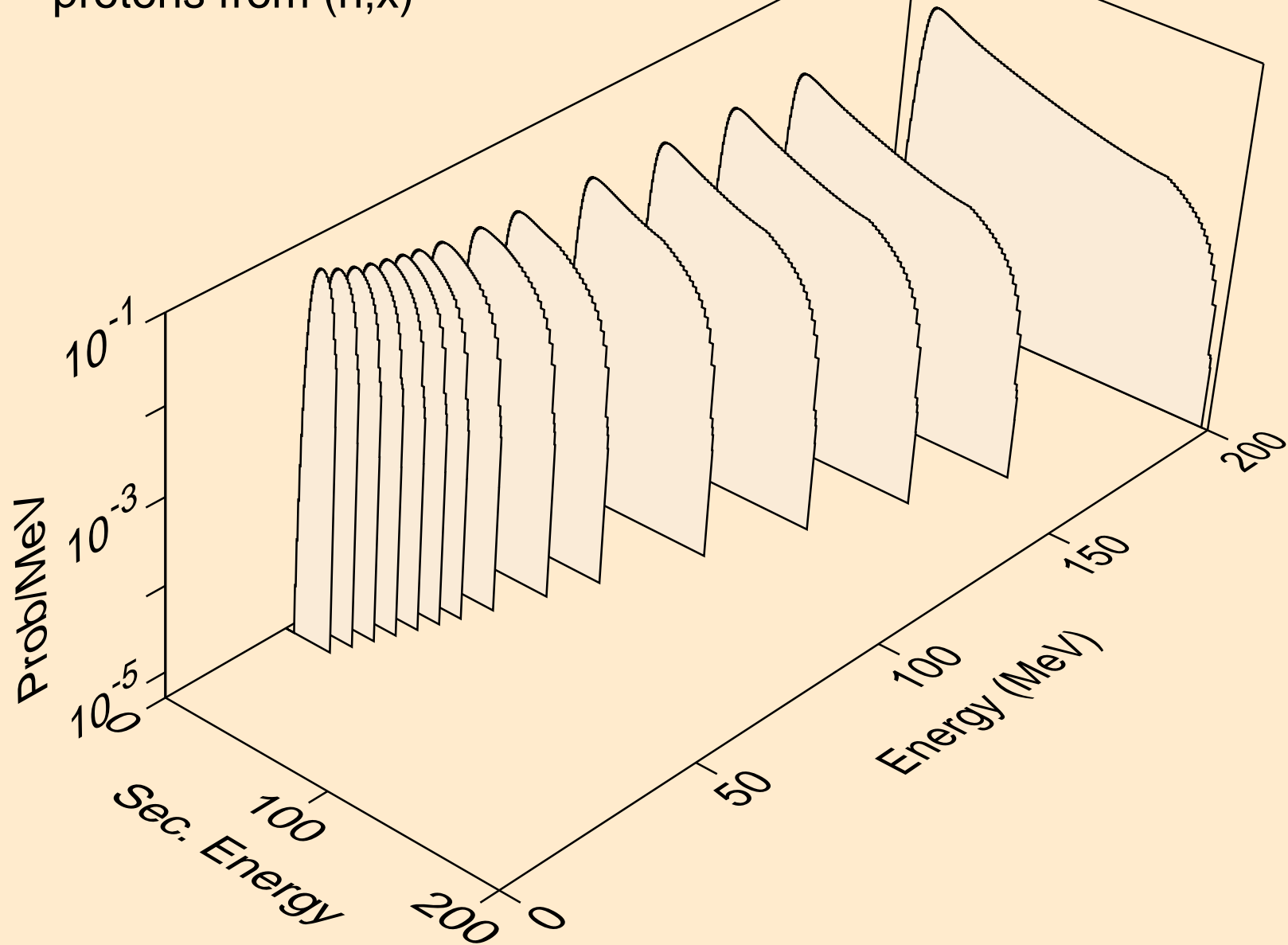


# U239 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

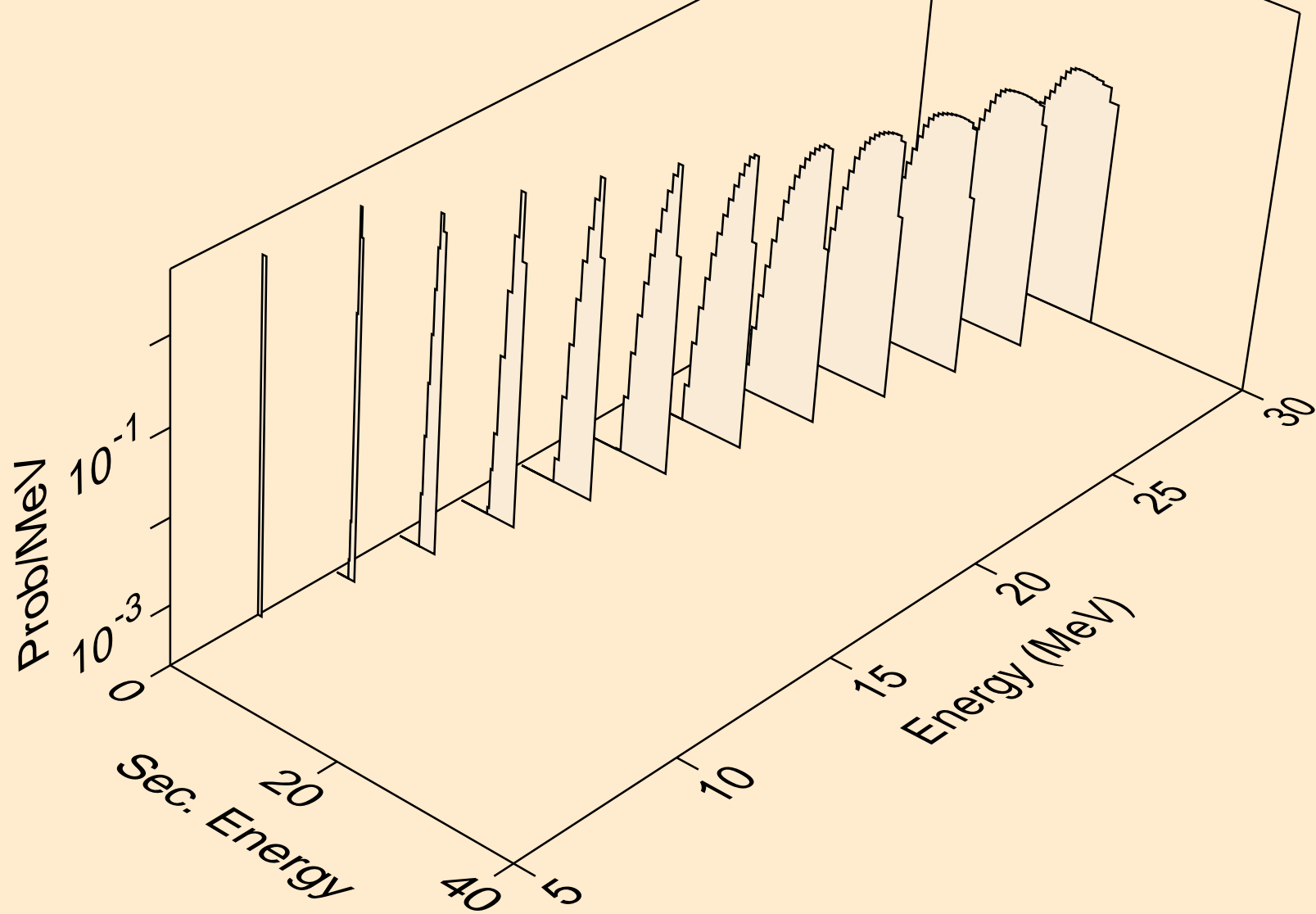
## Particle production cross sections



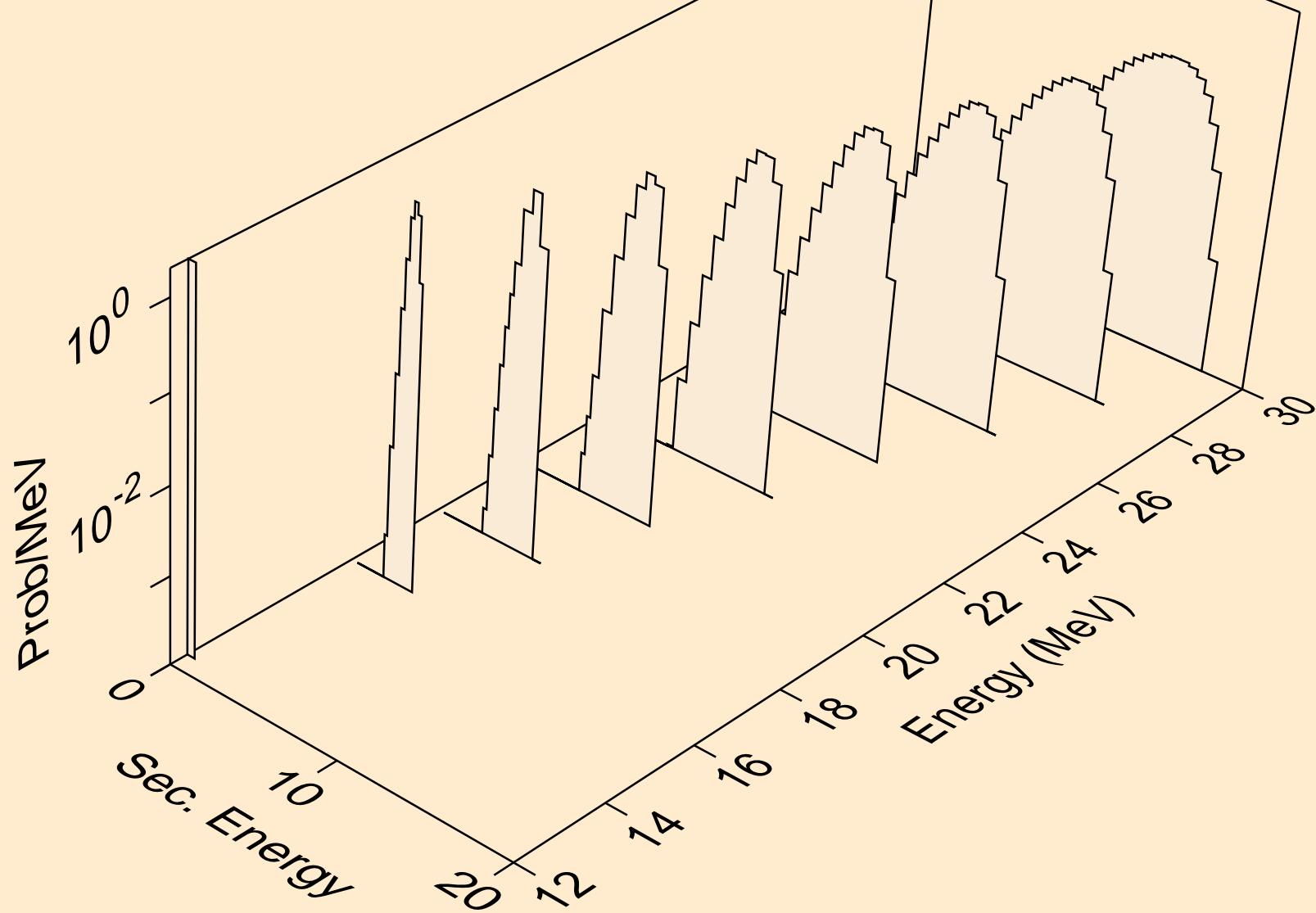
U239 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
protons from (n,x)



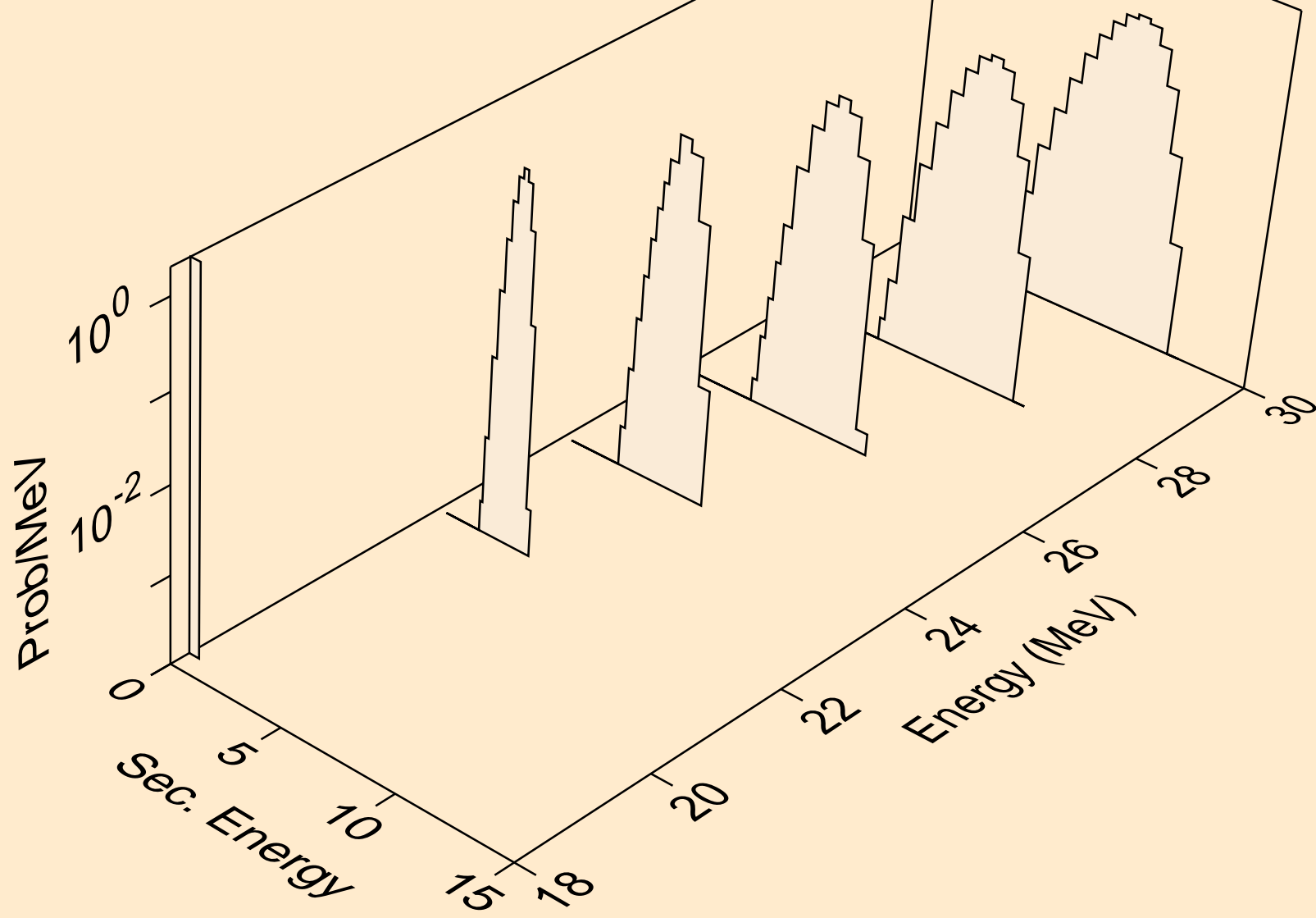
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protons from (n,n\*)p



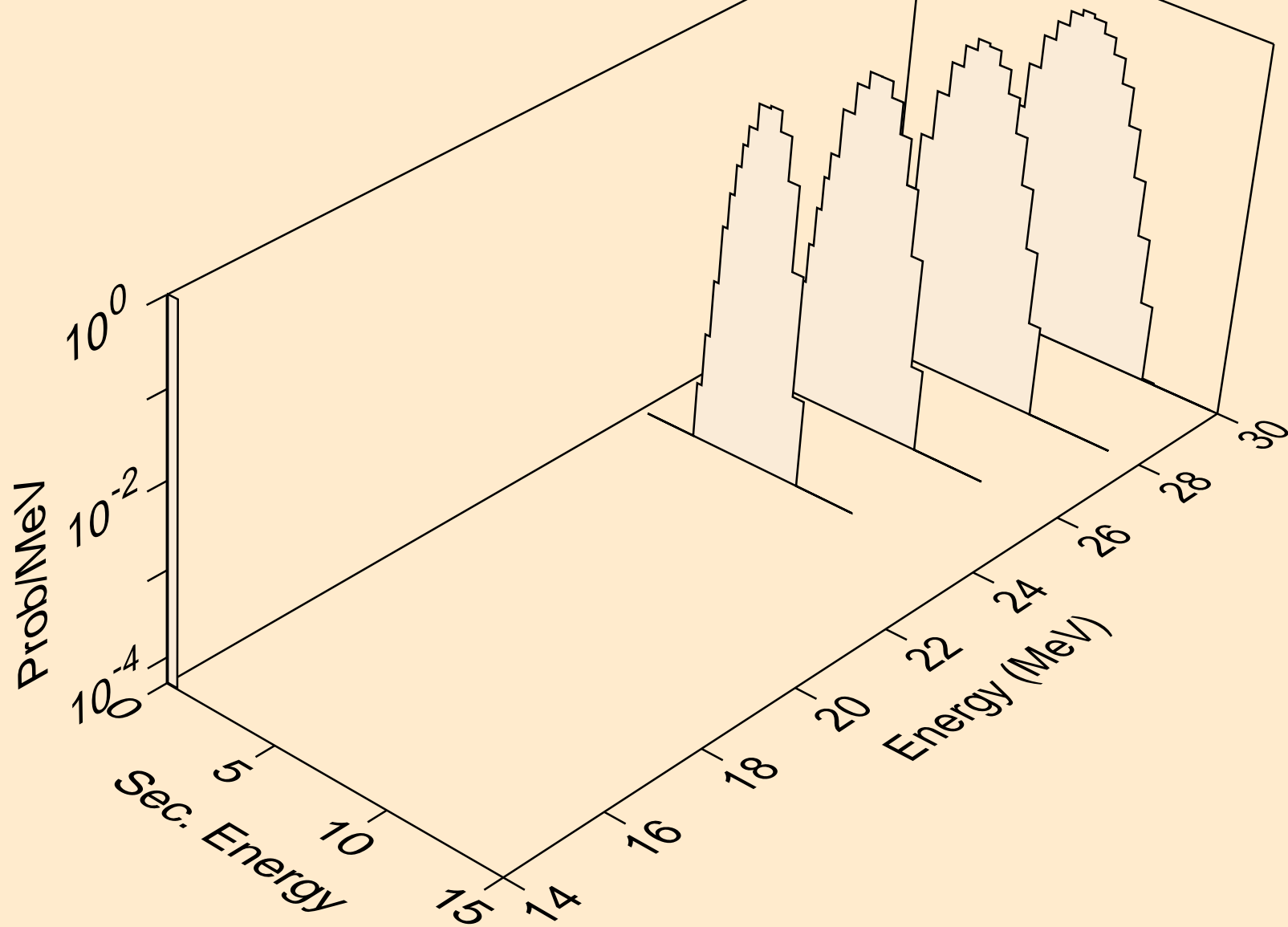
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protons from (n,2np)



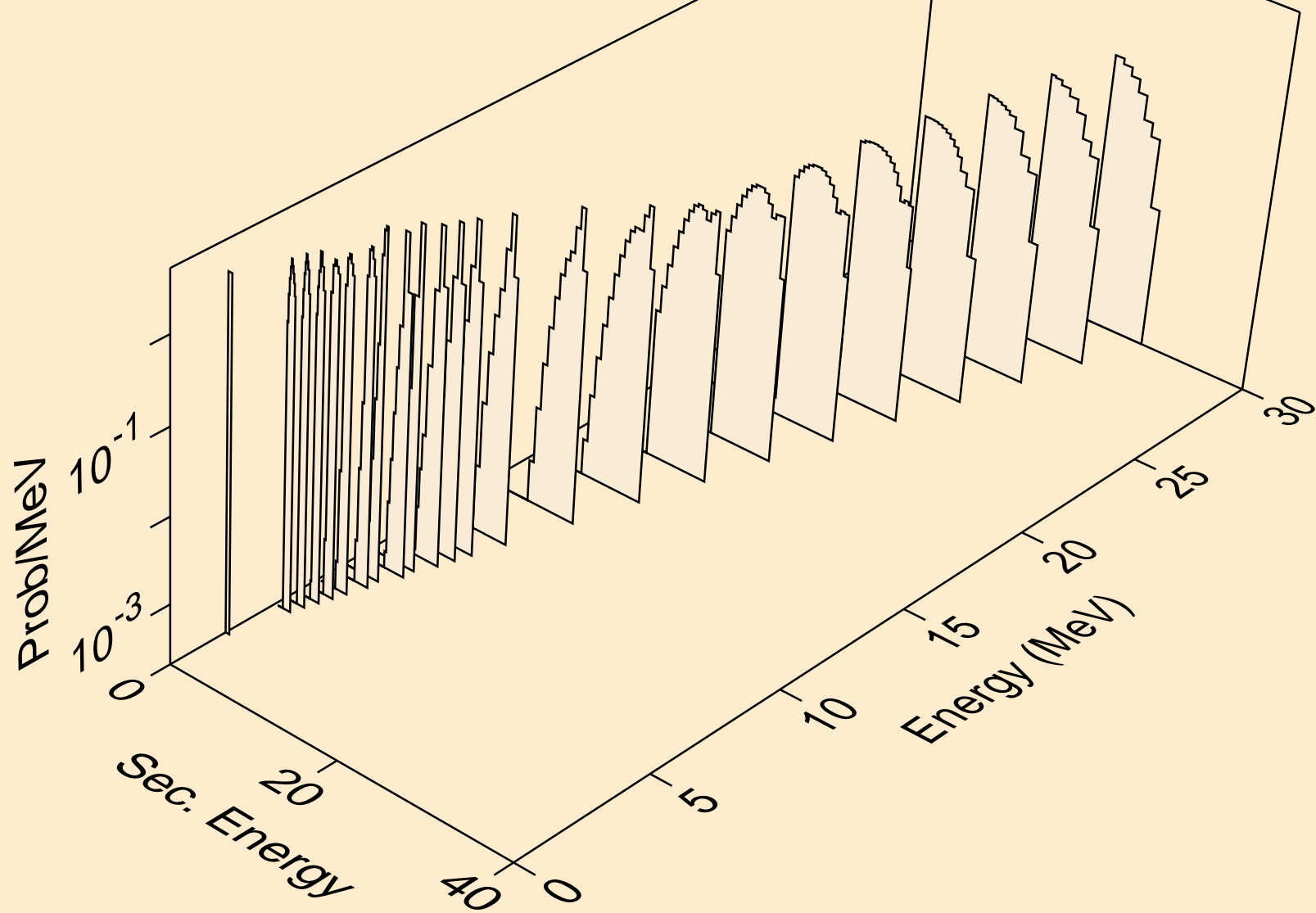
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protons from (n,3np)



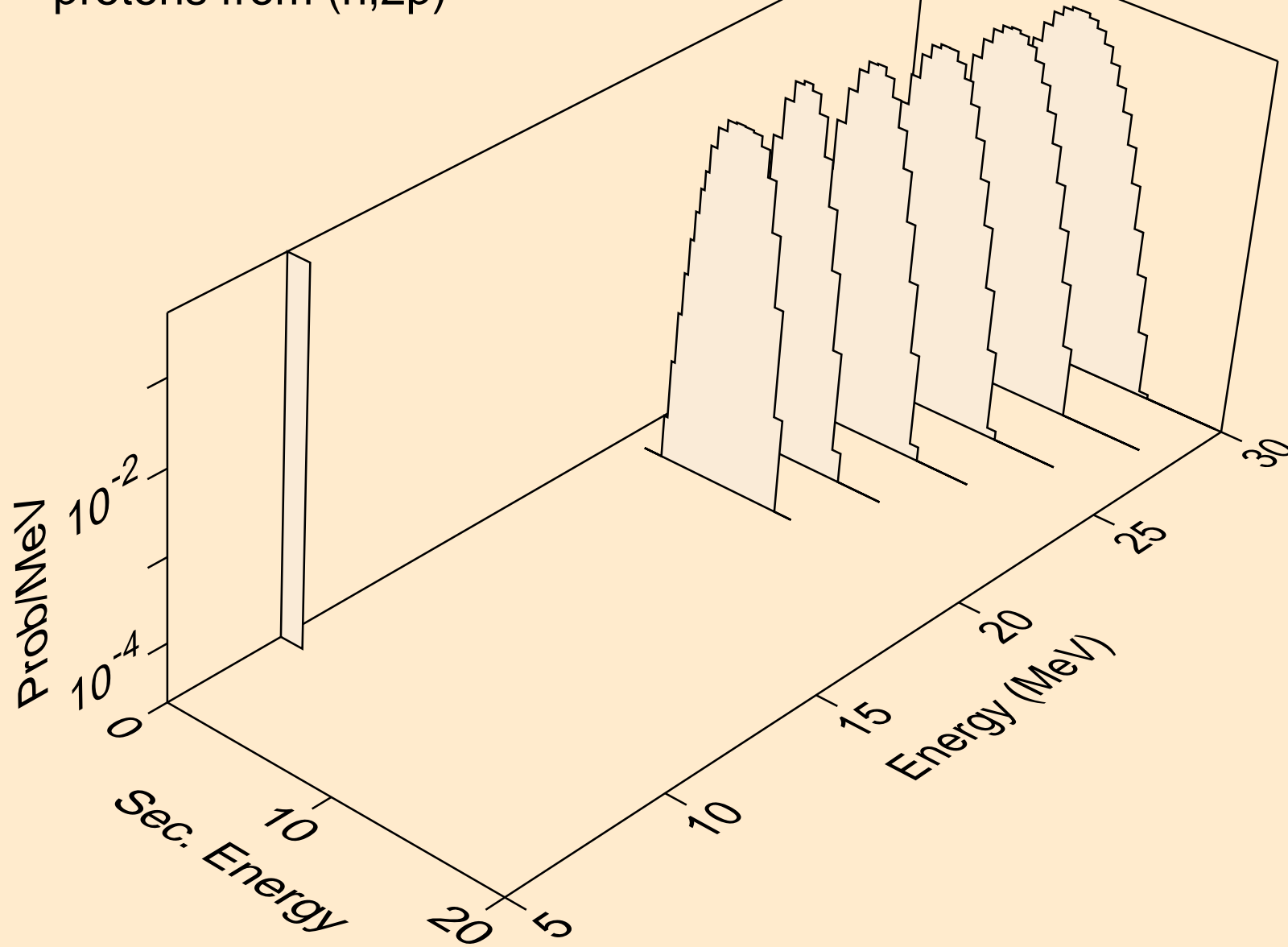
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protons from (n,n2p)



U239 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
protons from (n,p)

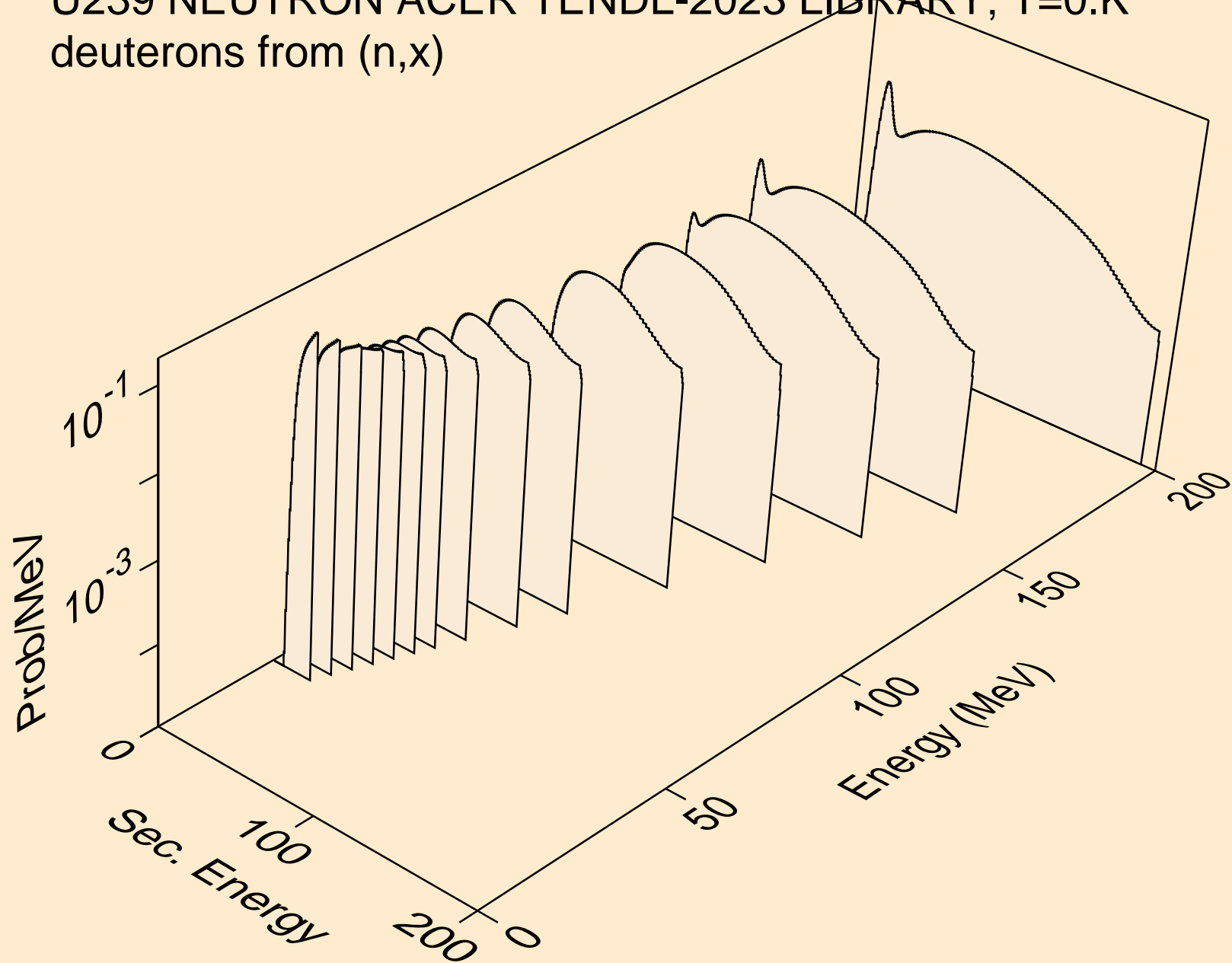


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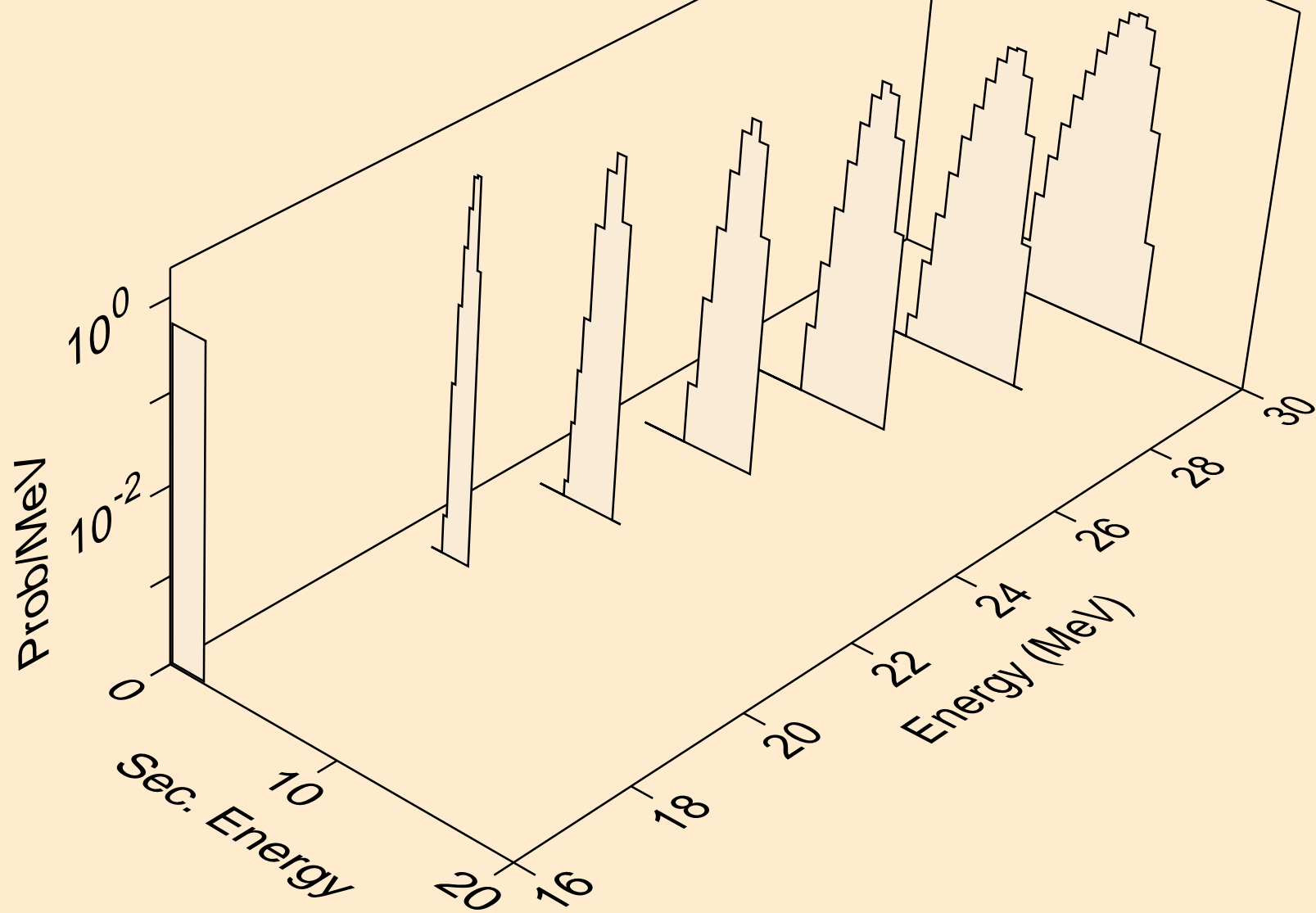




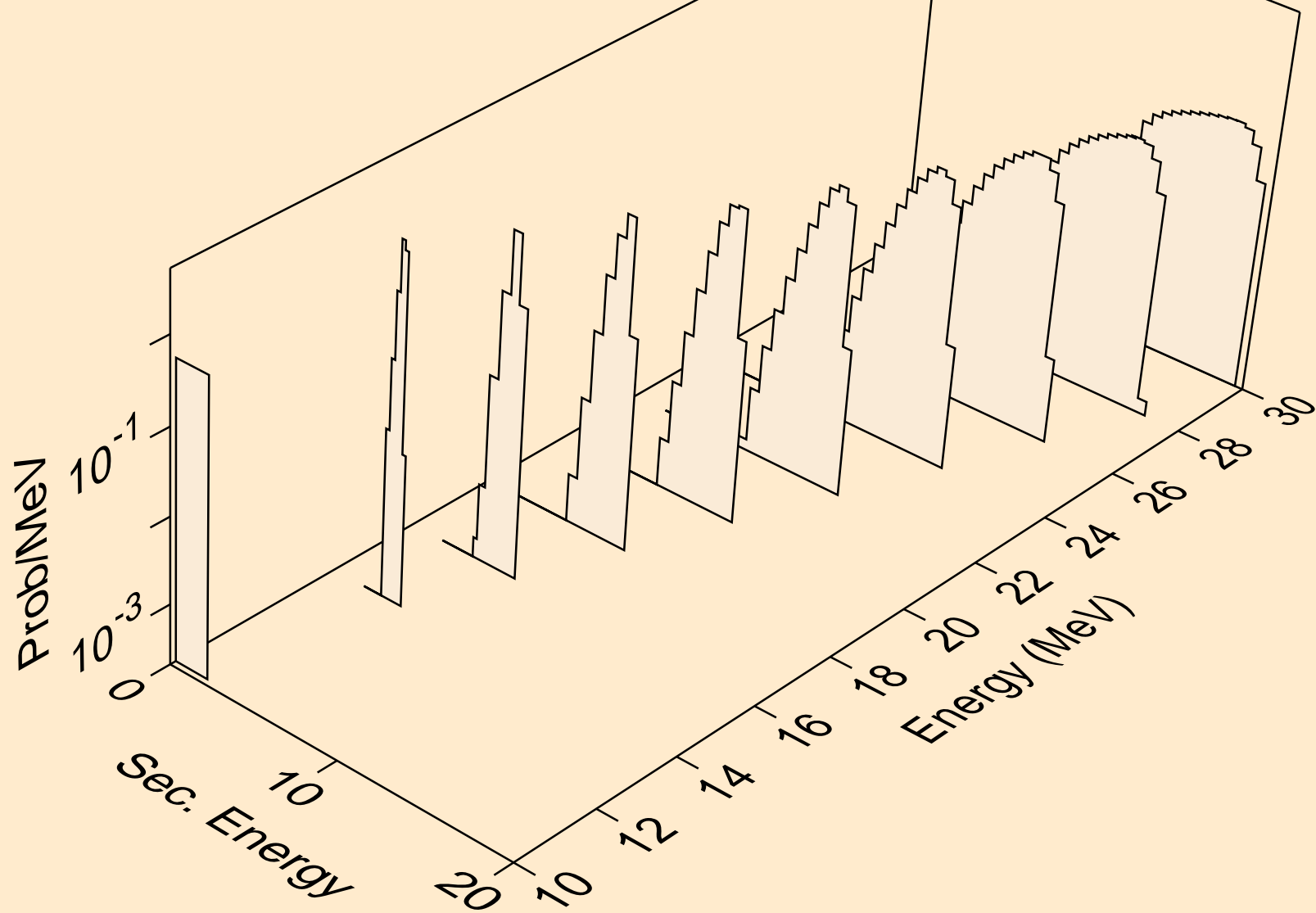
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deuterons from (n,x)



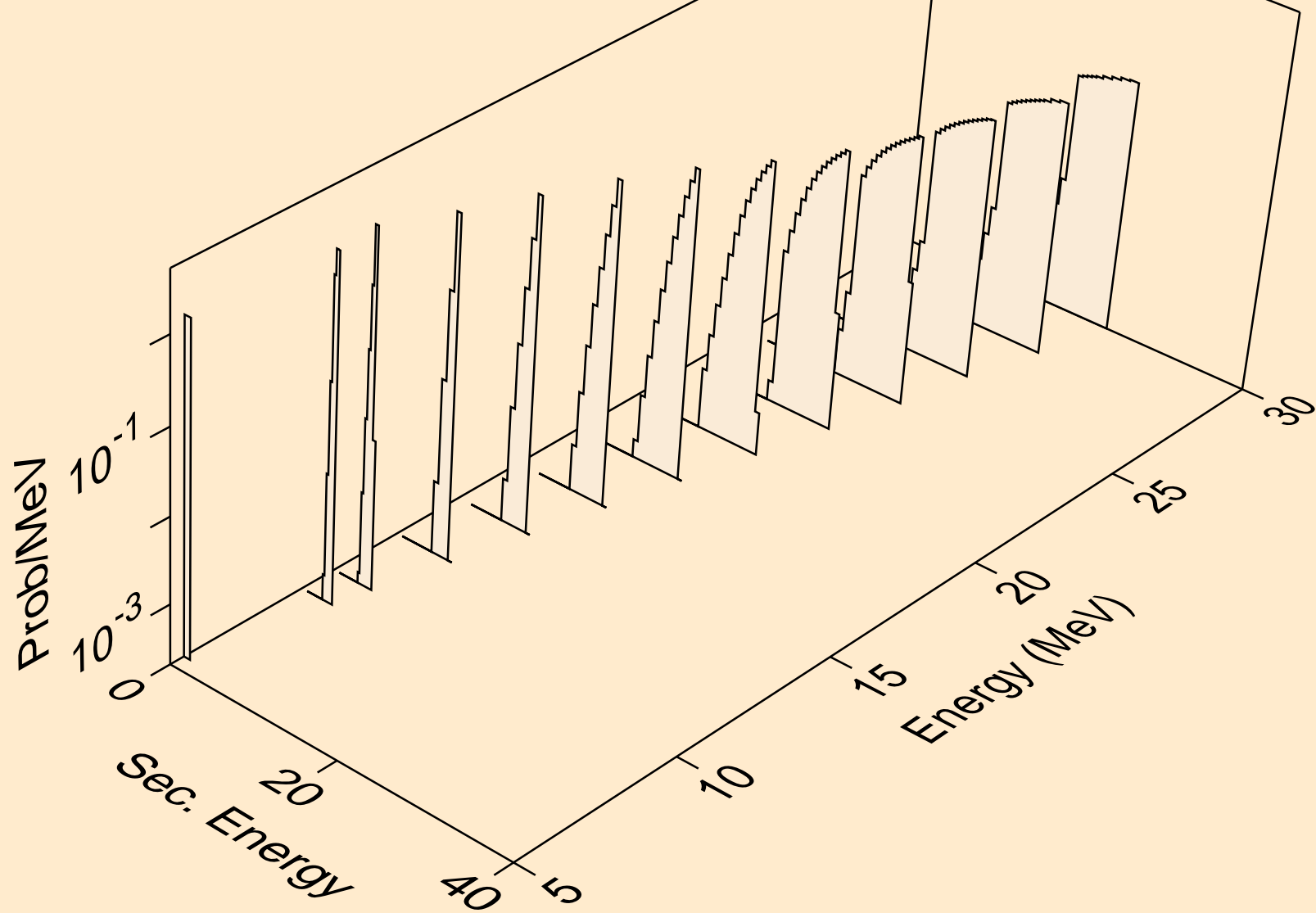
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deuterons from (n,2nd)



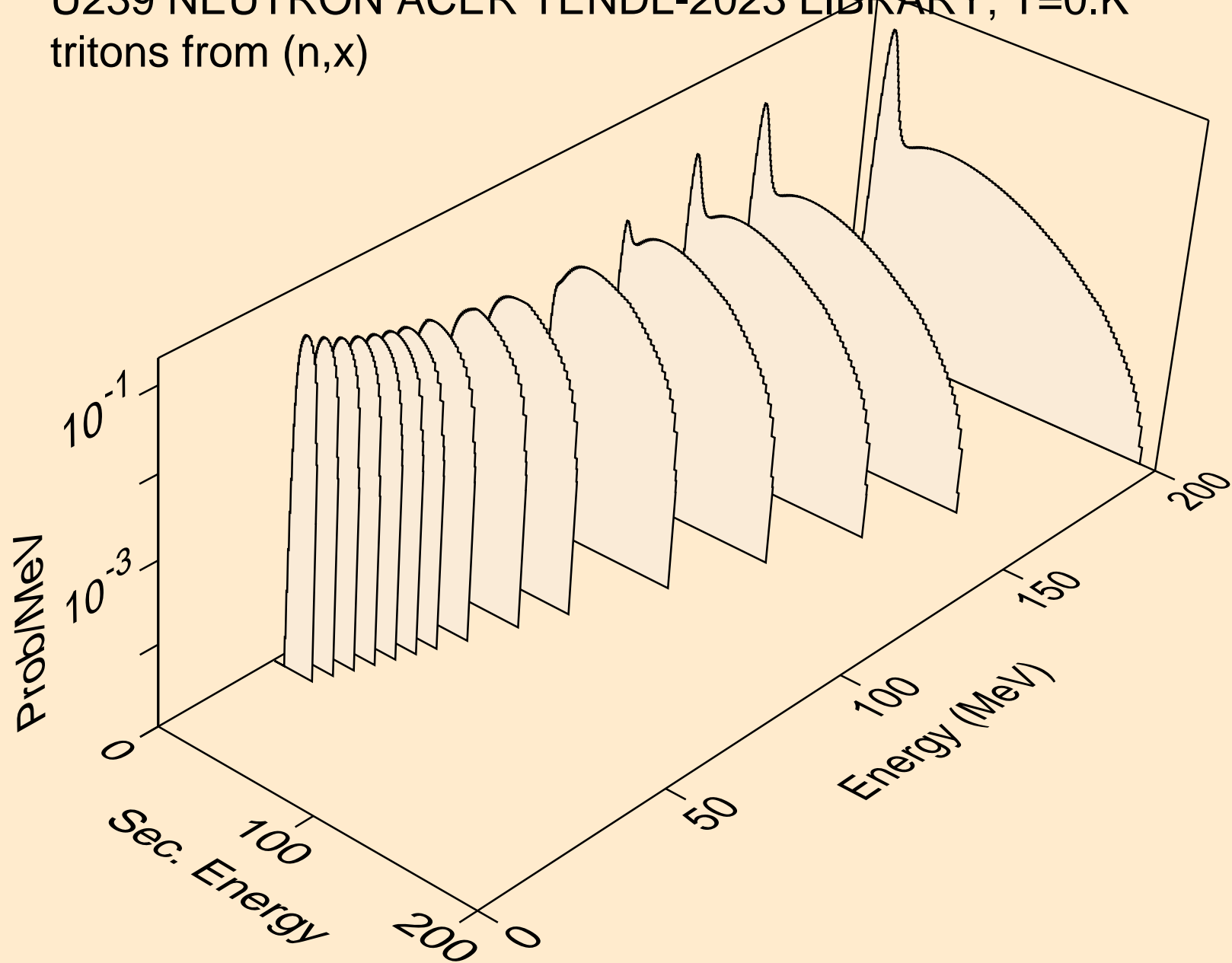
U239 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
deuterons from (n,n\*)d



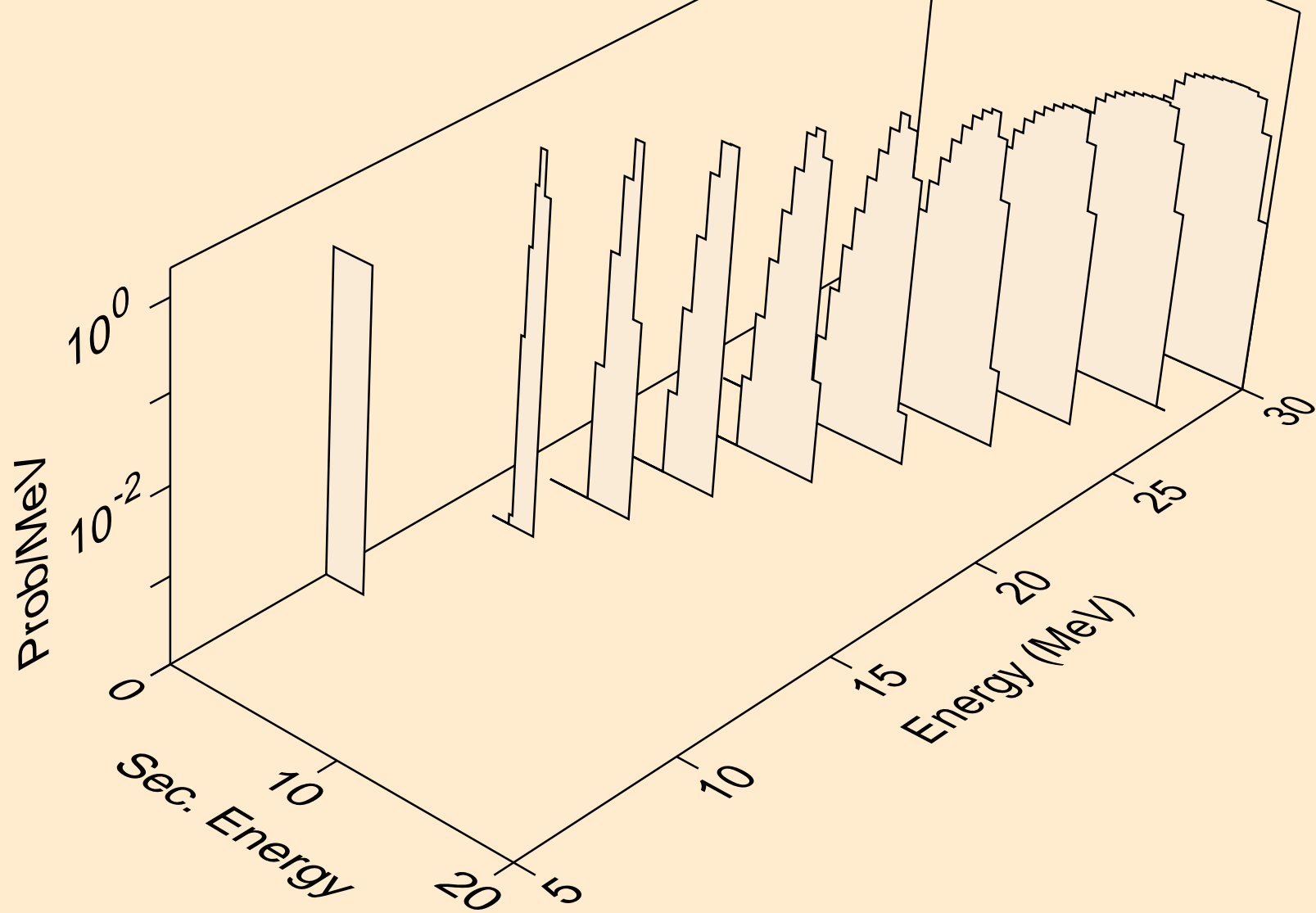
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deuterons from (n,d)



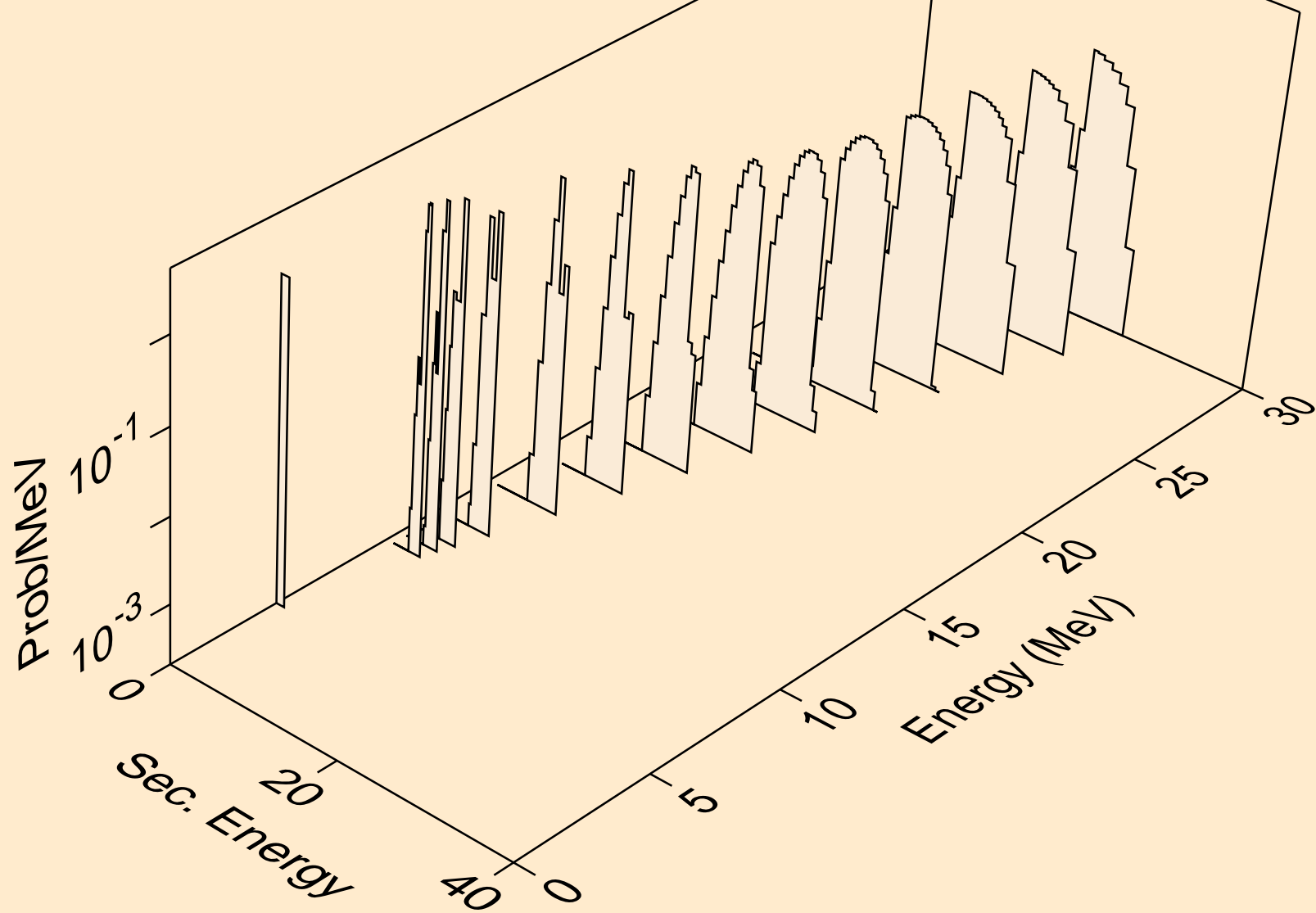
U239 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
tritons from (n,x)



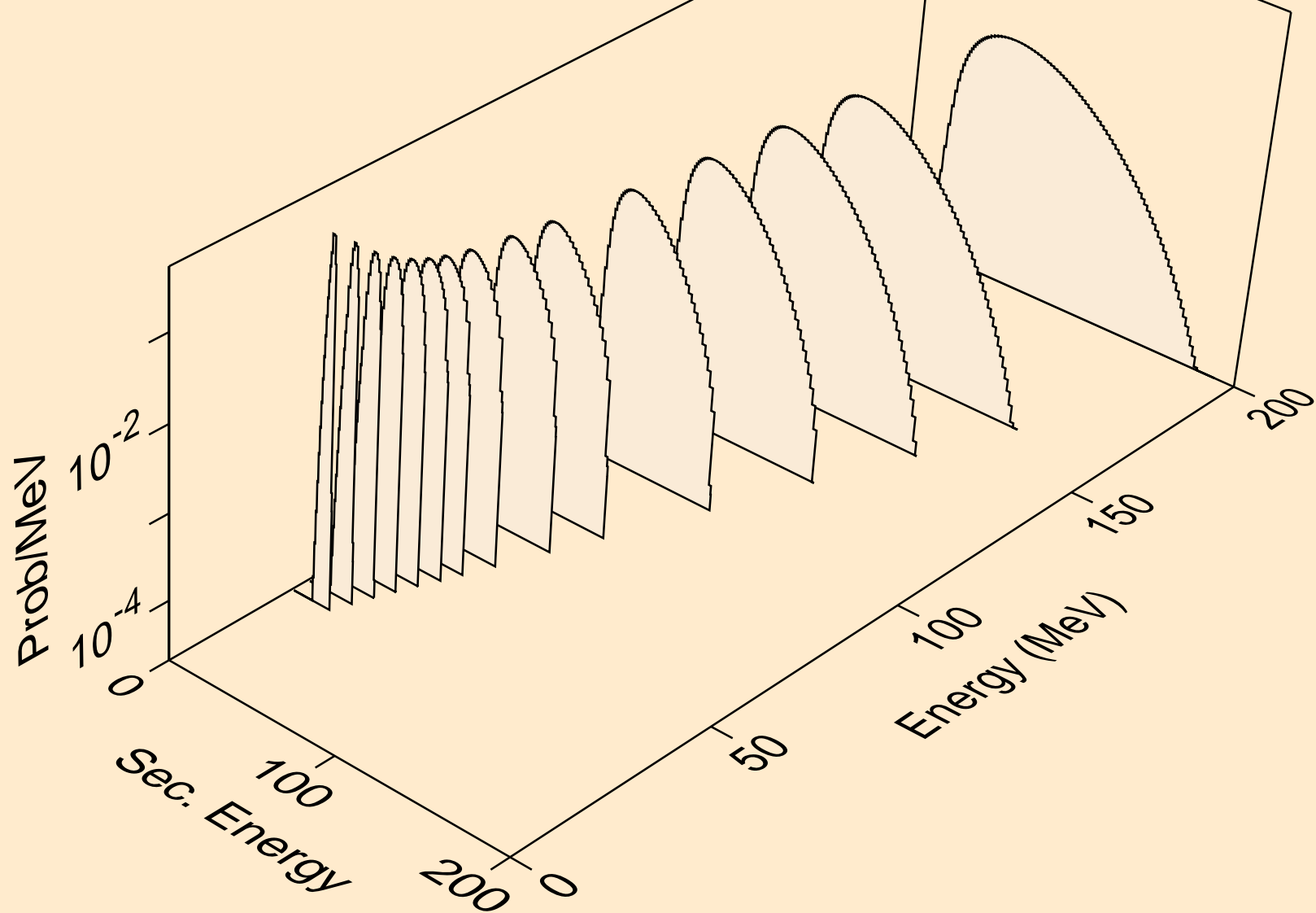
U239 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
tritons from (n,n\*)t



U239 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
tritons from (n,t)

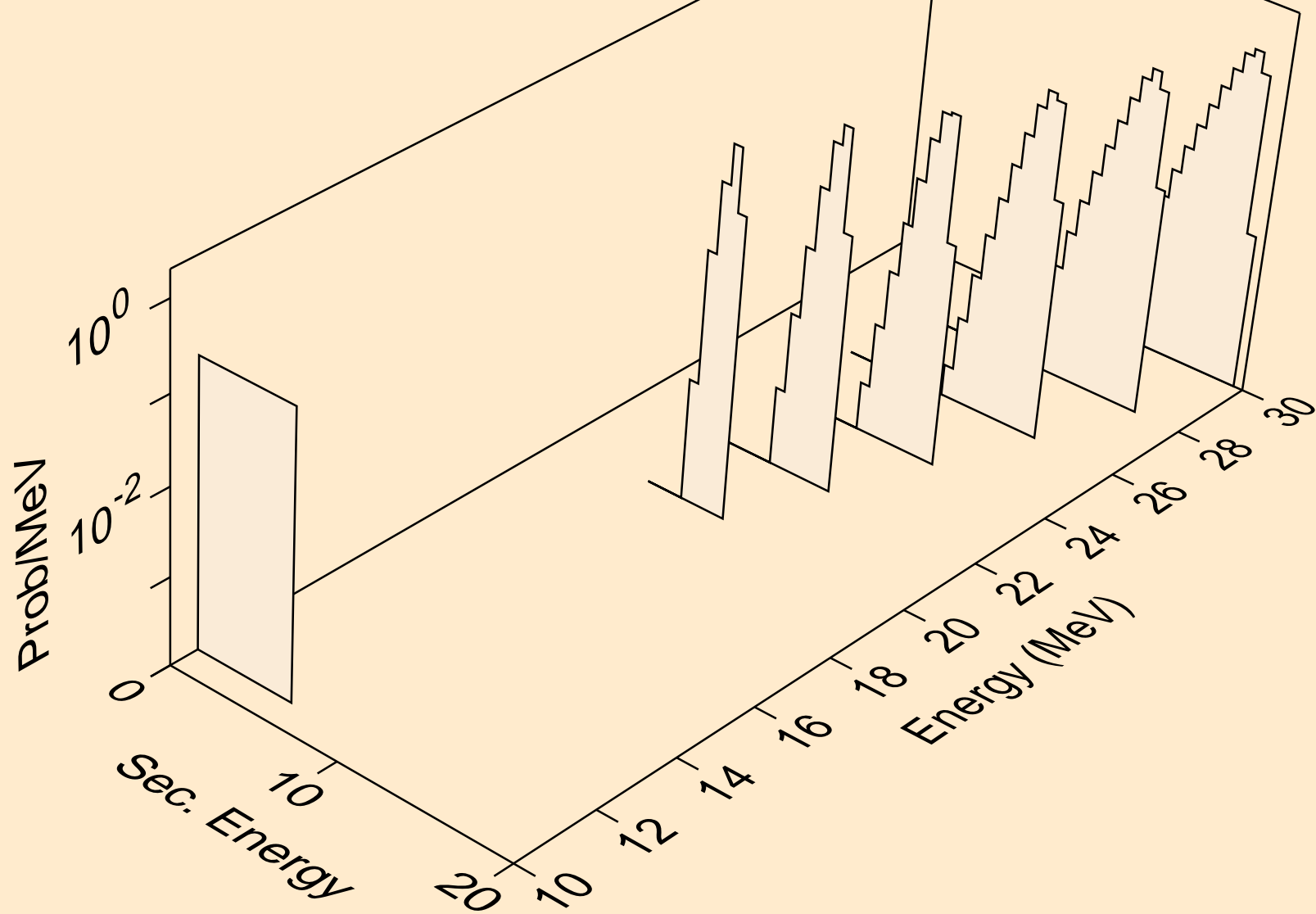


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he3s from (n,x)

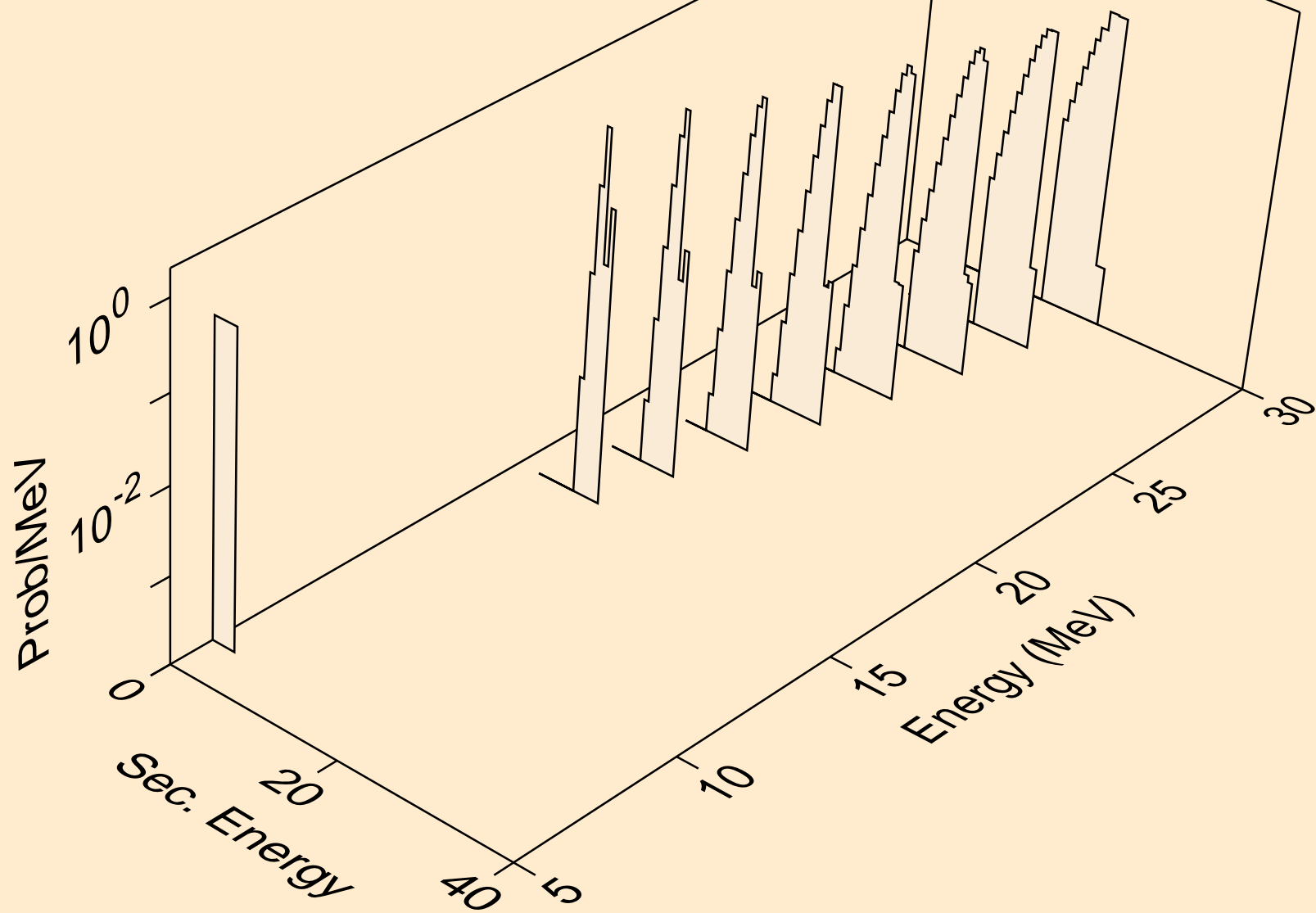




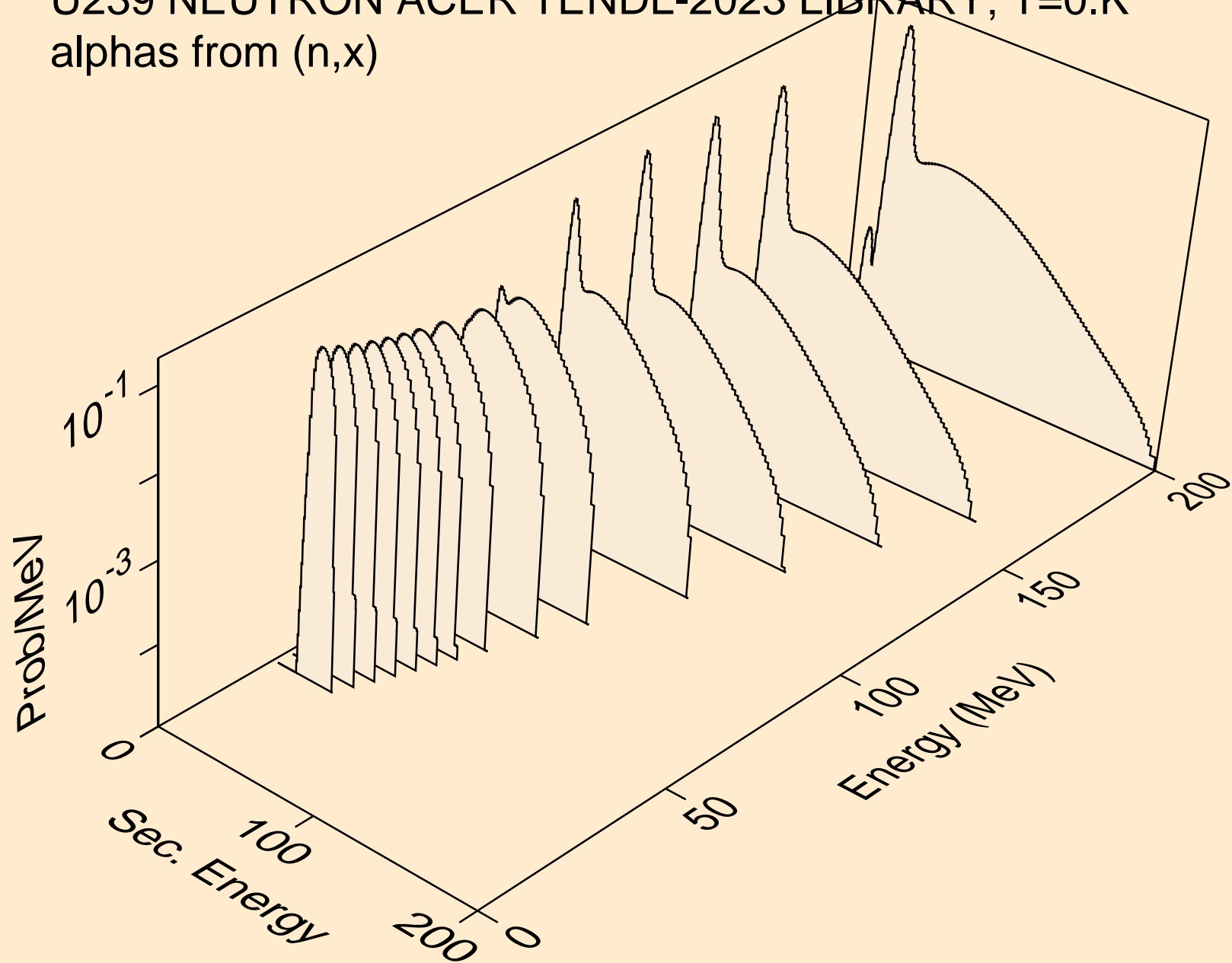
U239 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
he3s from (n,n\*)he3



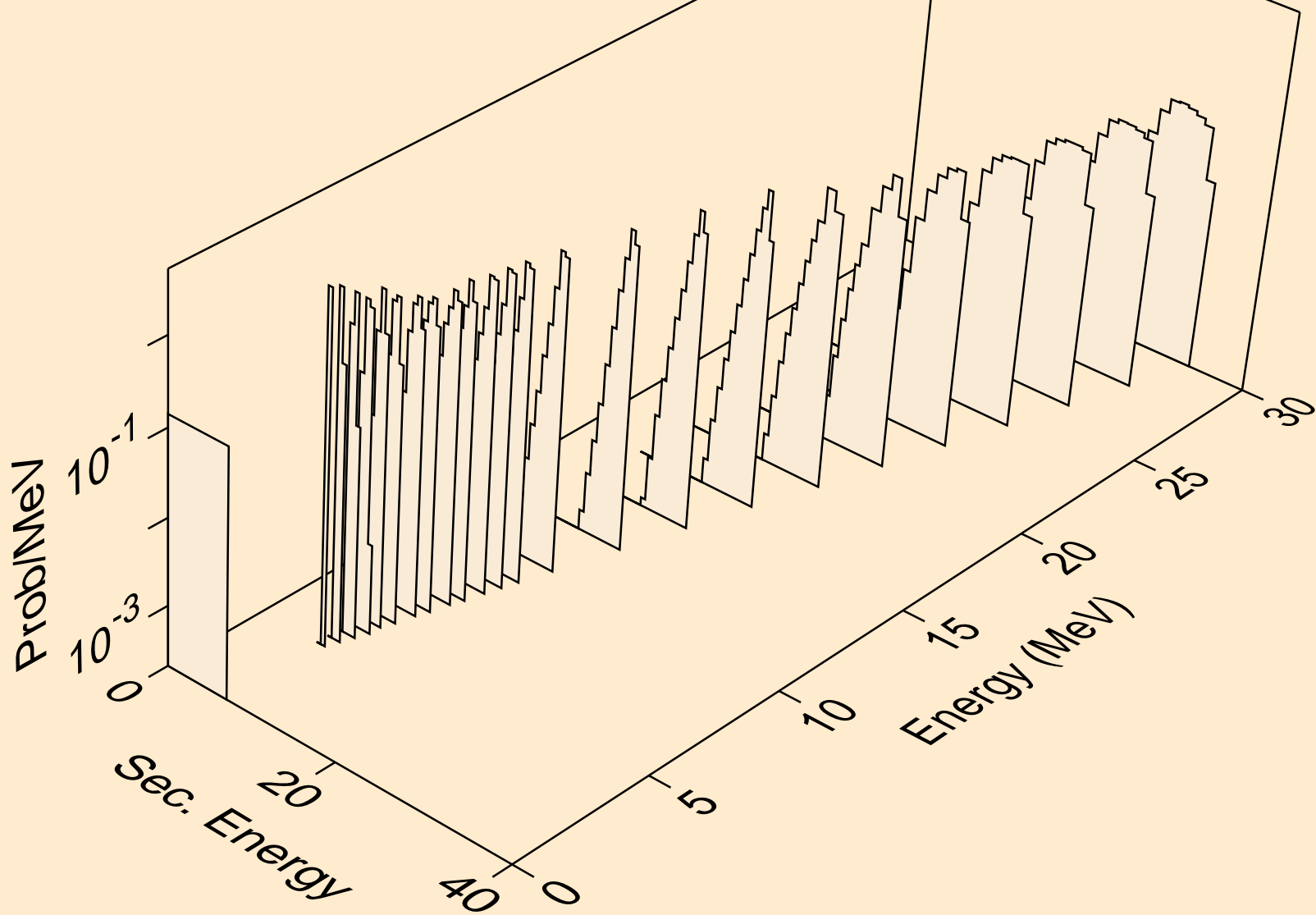
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he3s from (n,he3)



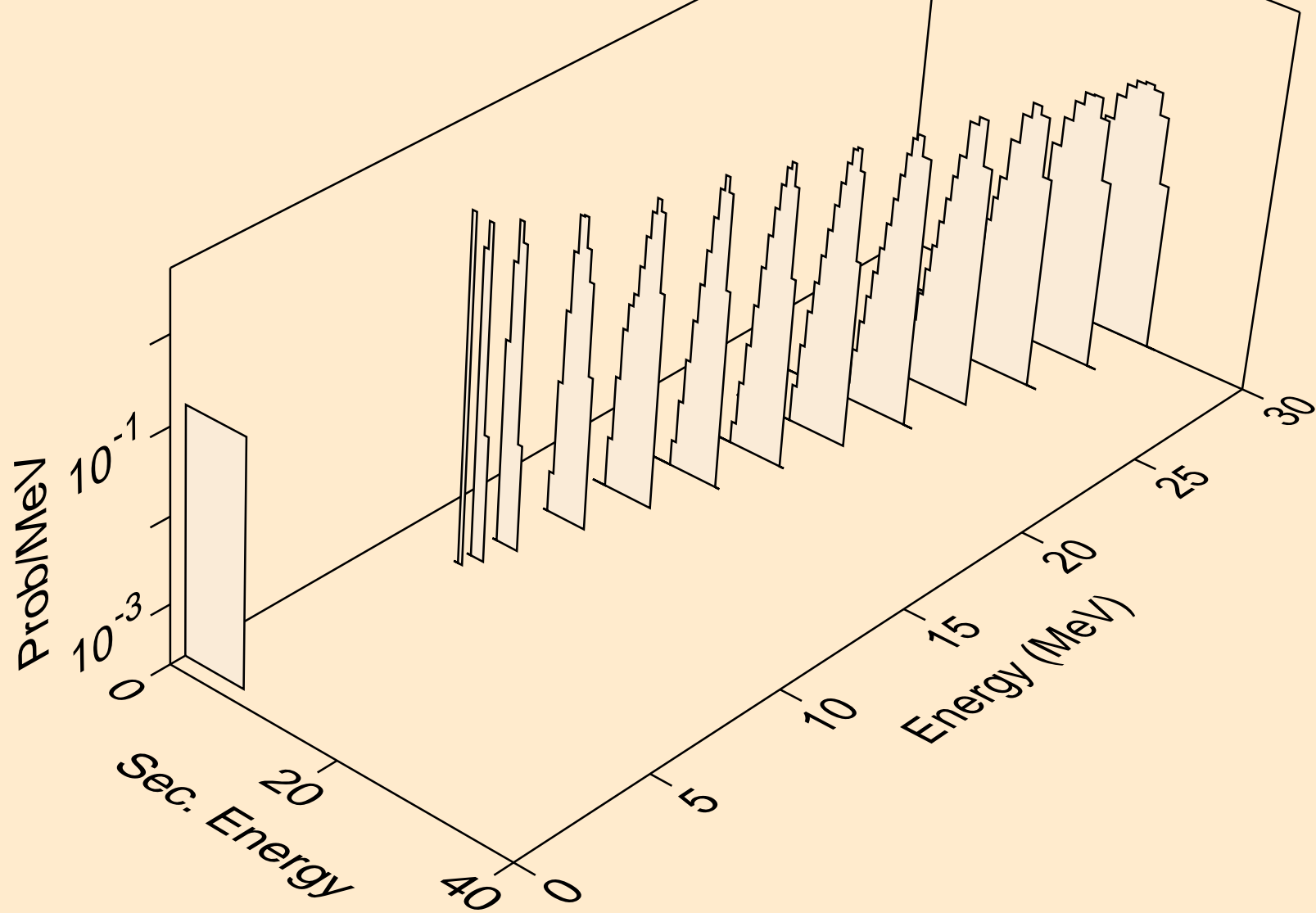
U239 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,x)



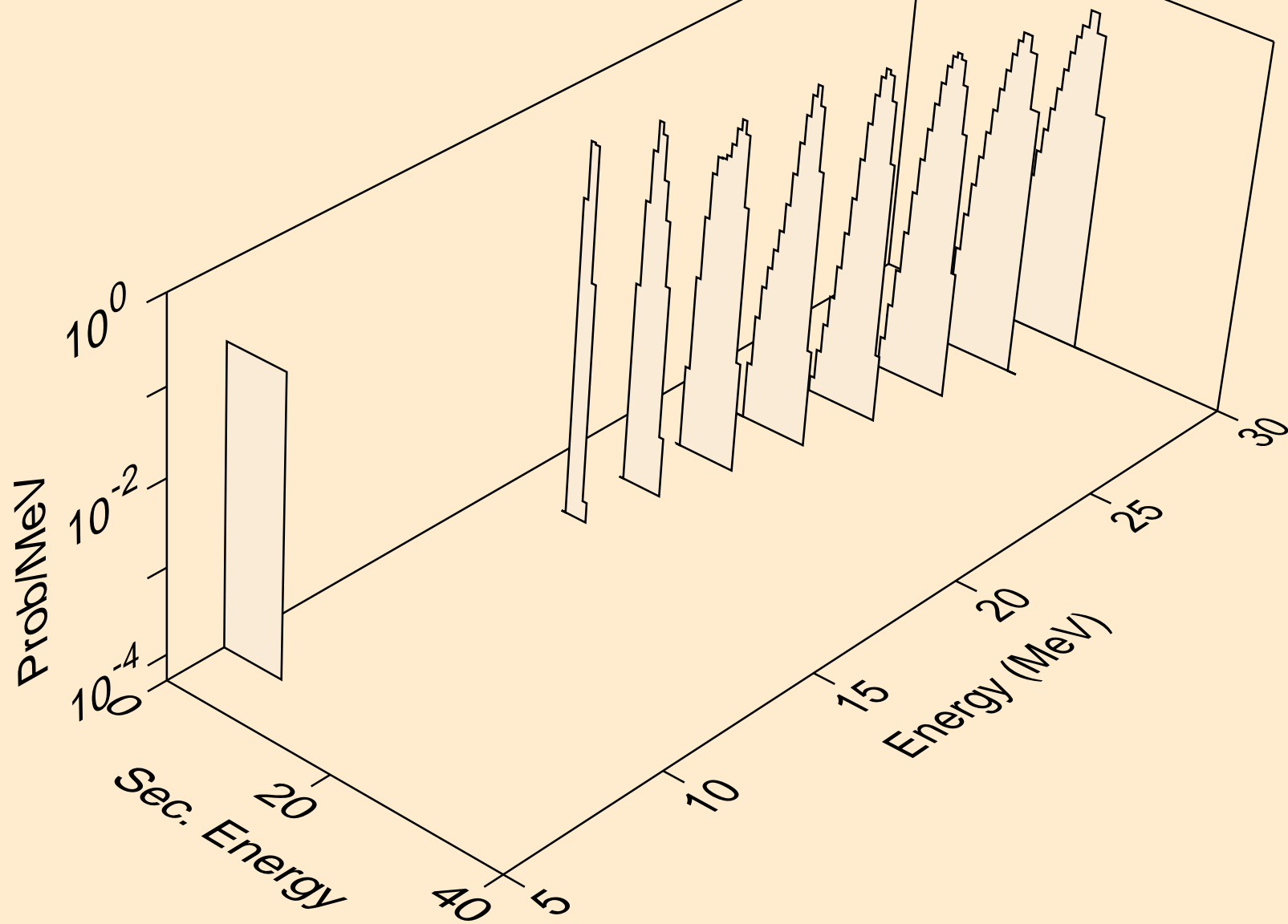
U239 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,n\*)a



U239 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,2n)a



U239 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,3n)a



U239 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,a)

