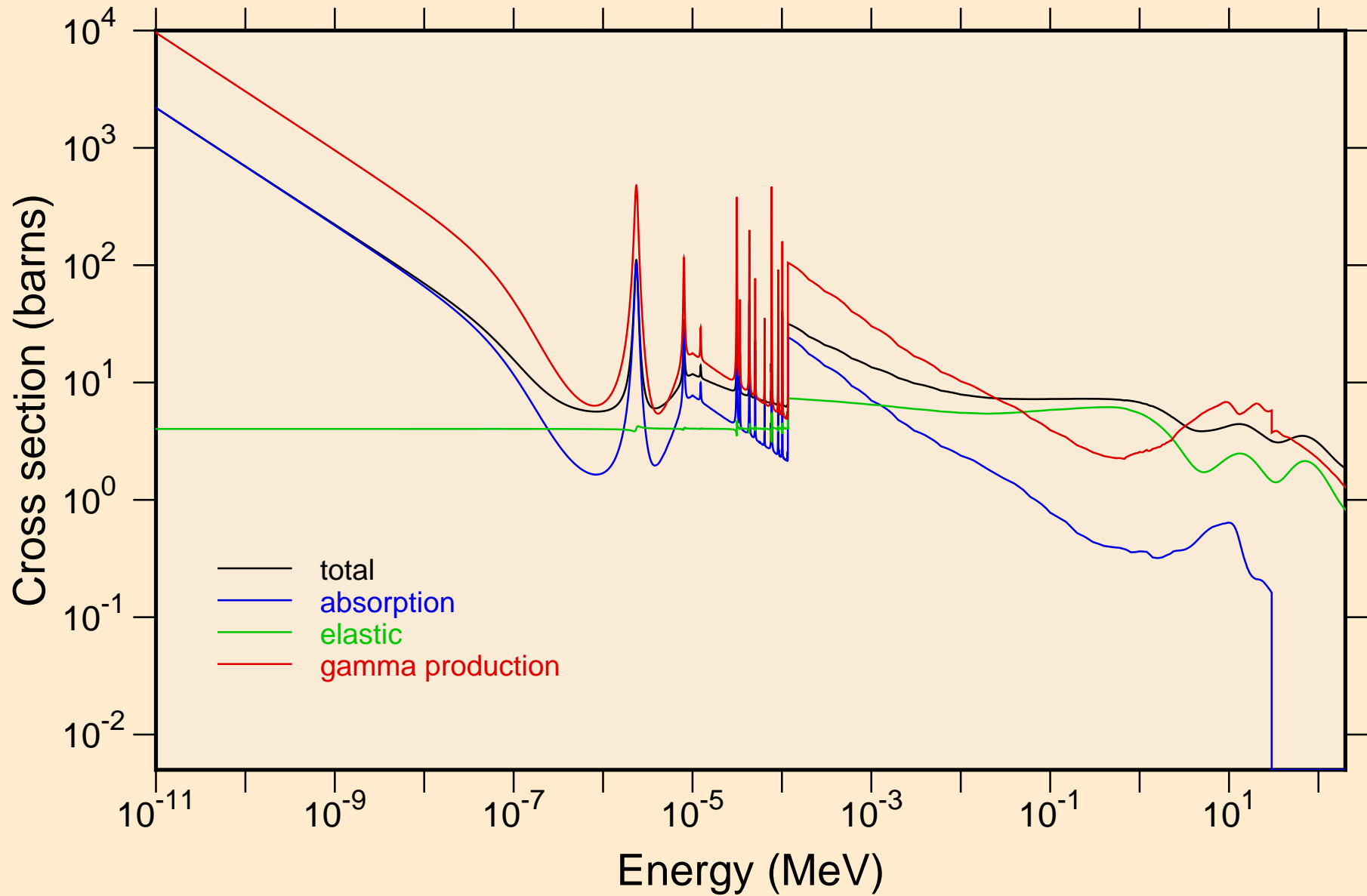
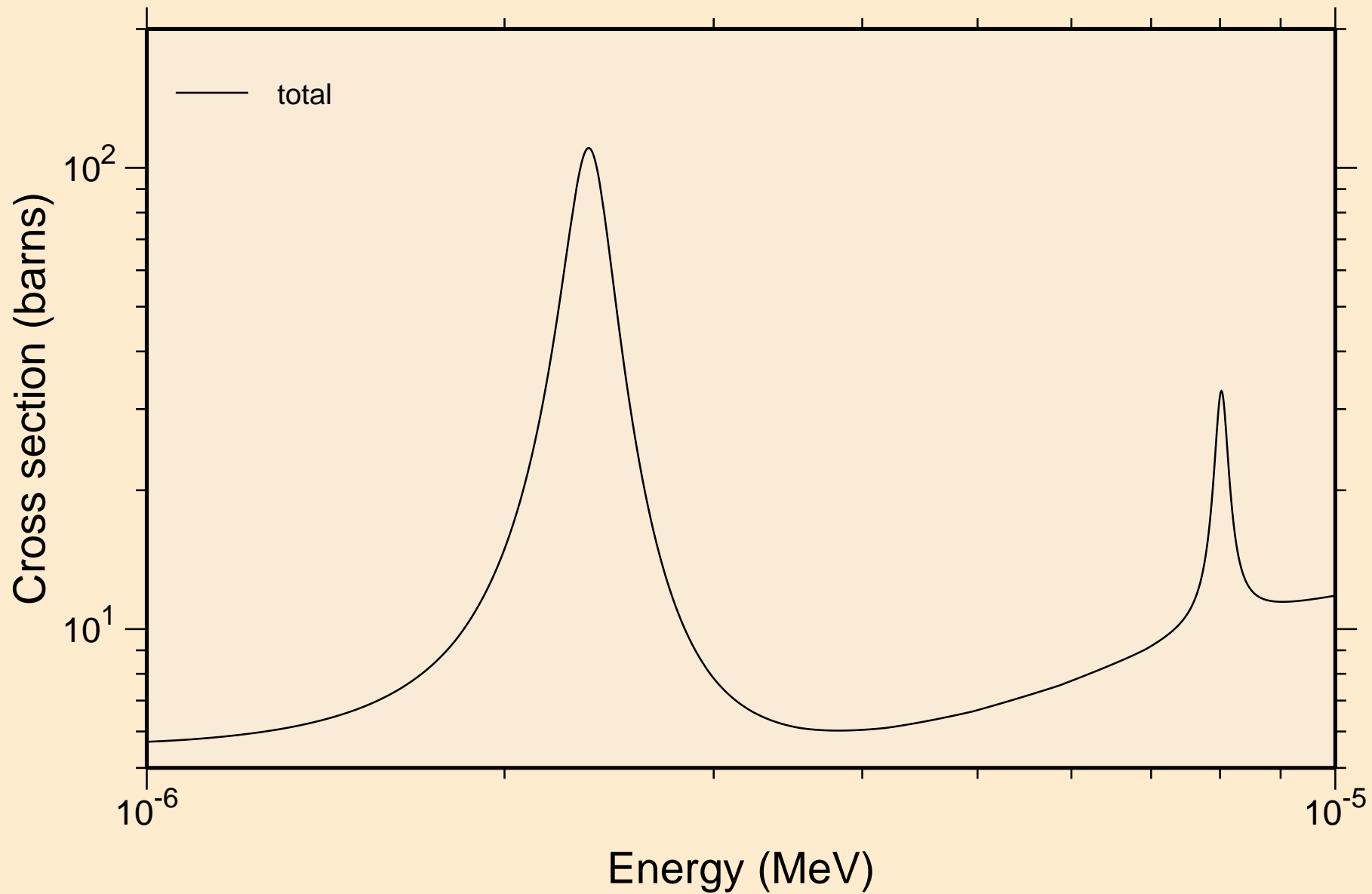


# SN109 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

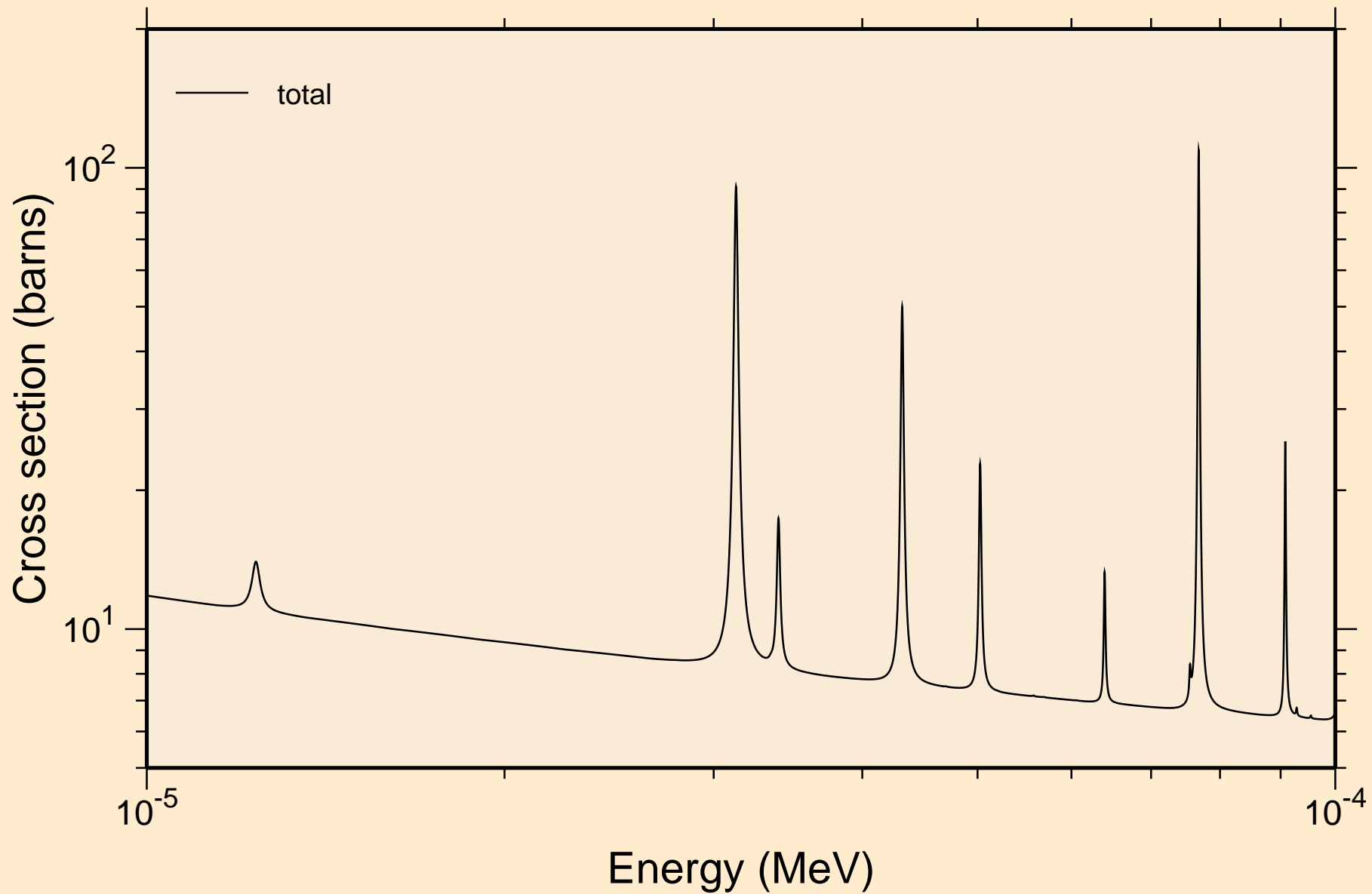
## Principal cross sections



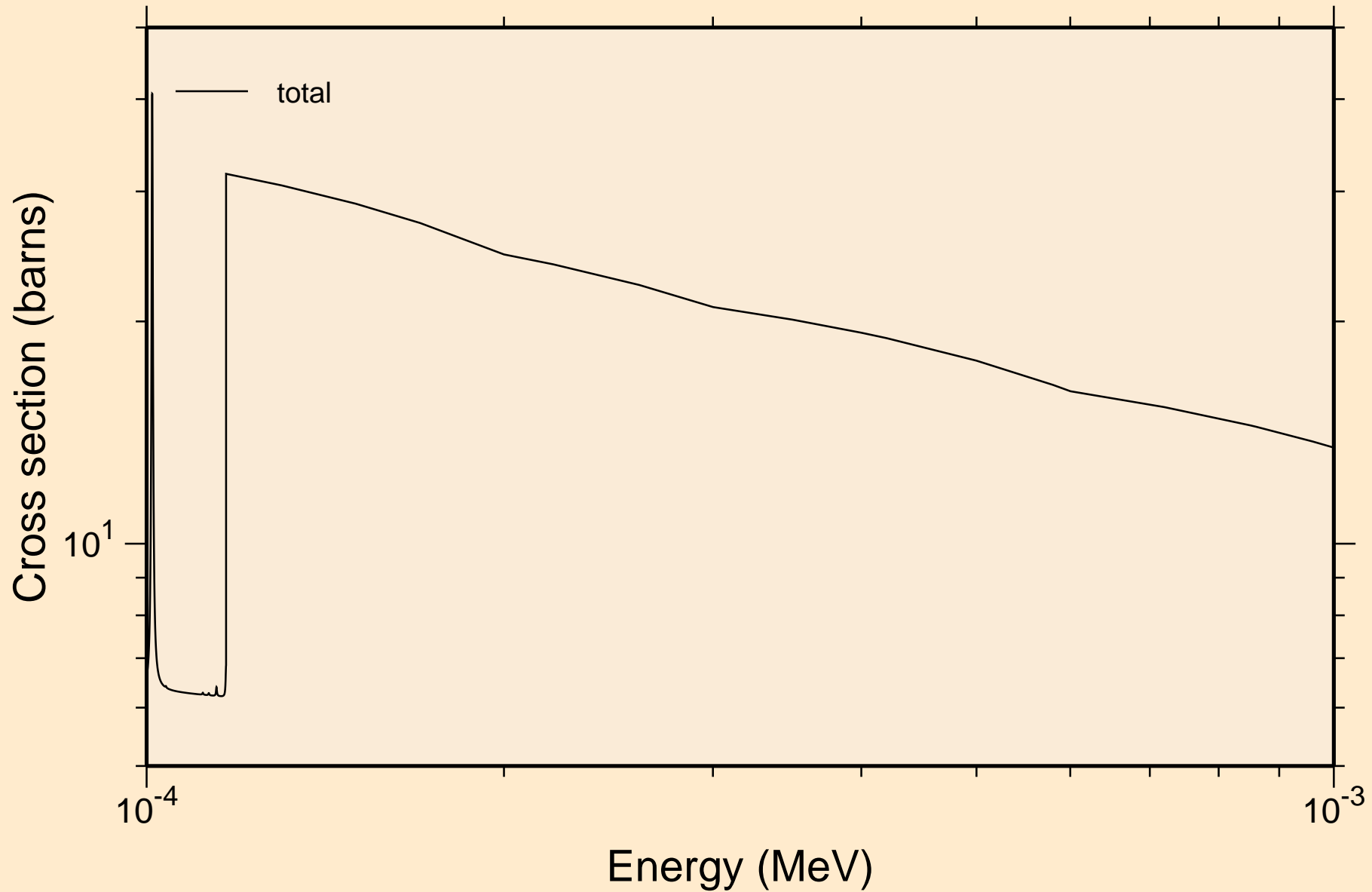
SN109 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
resonance total cross section



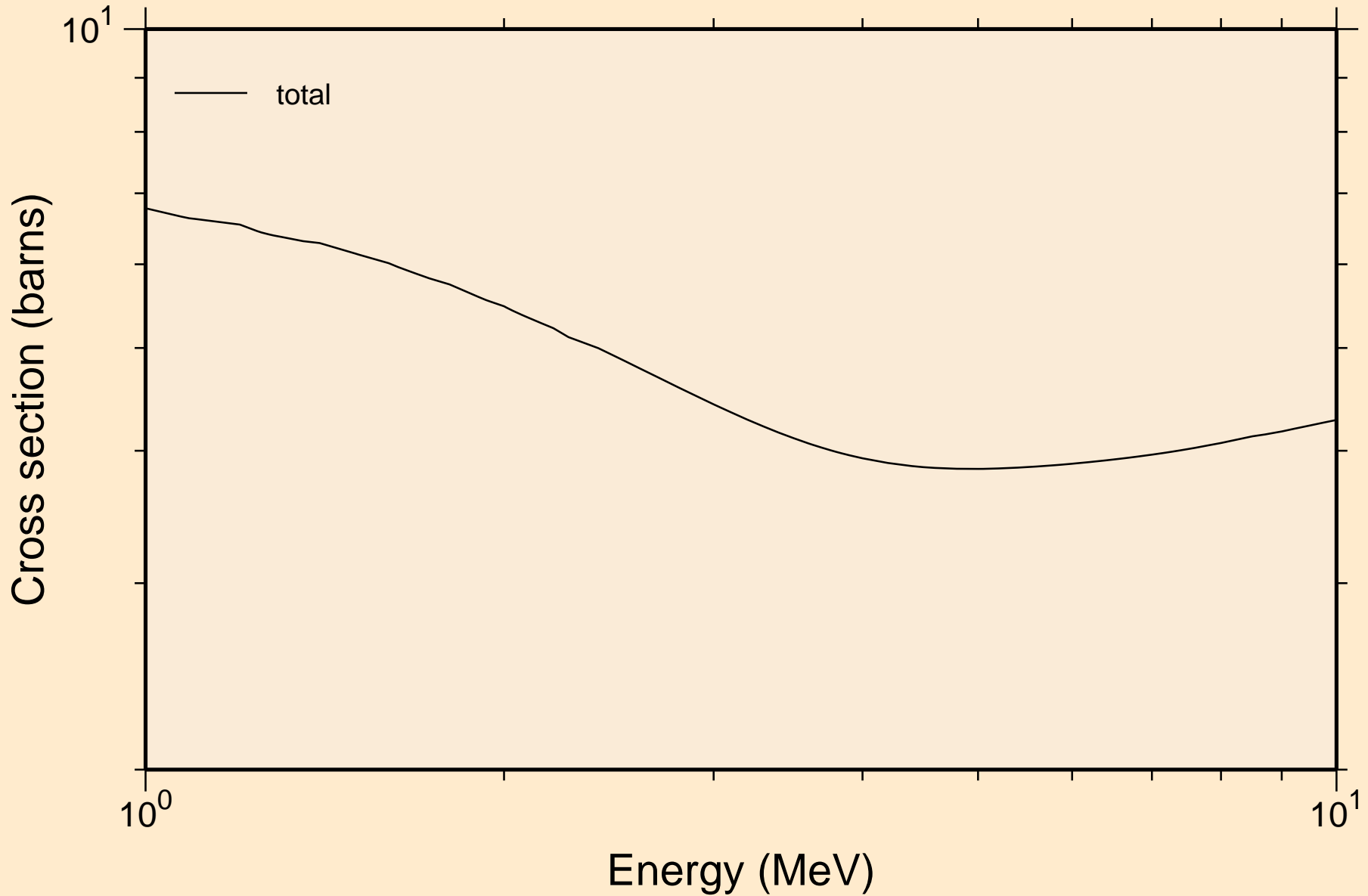
SN109 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
resonance total cross section



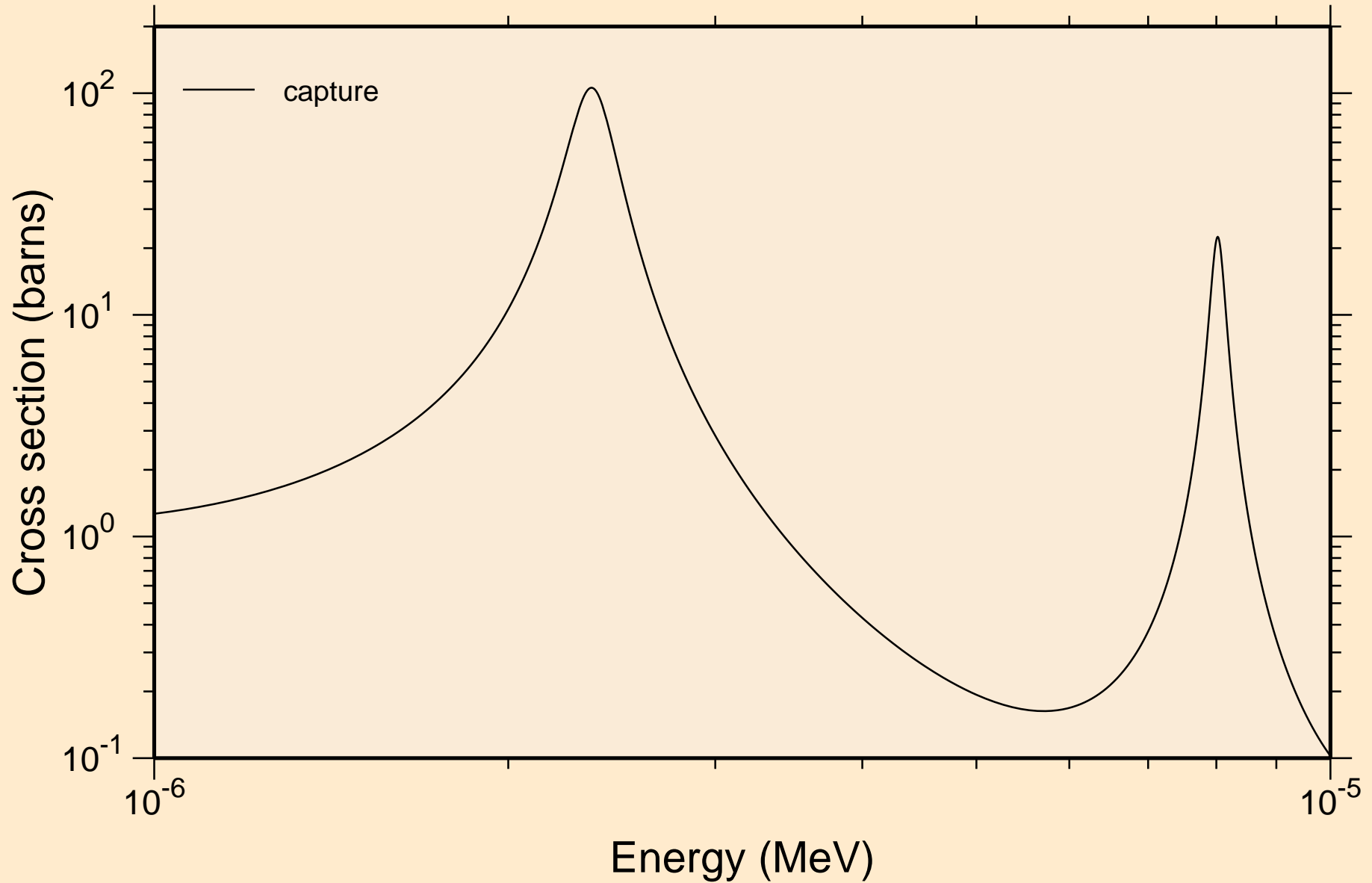
SN109 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
resonance total cross section



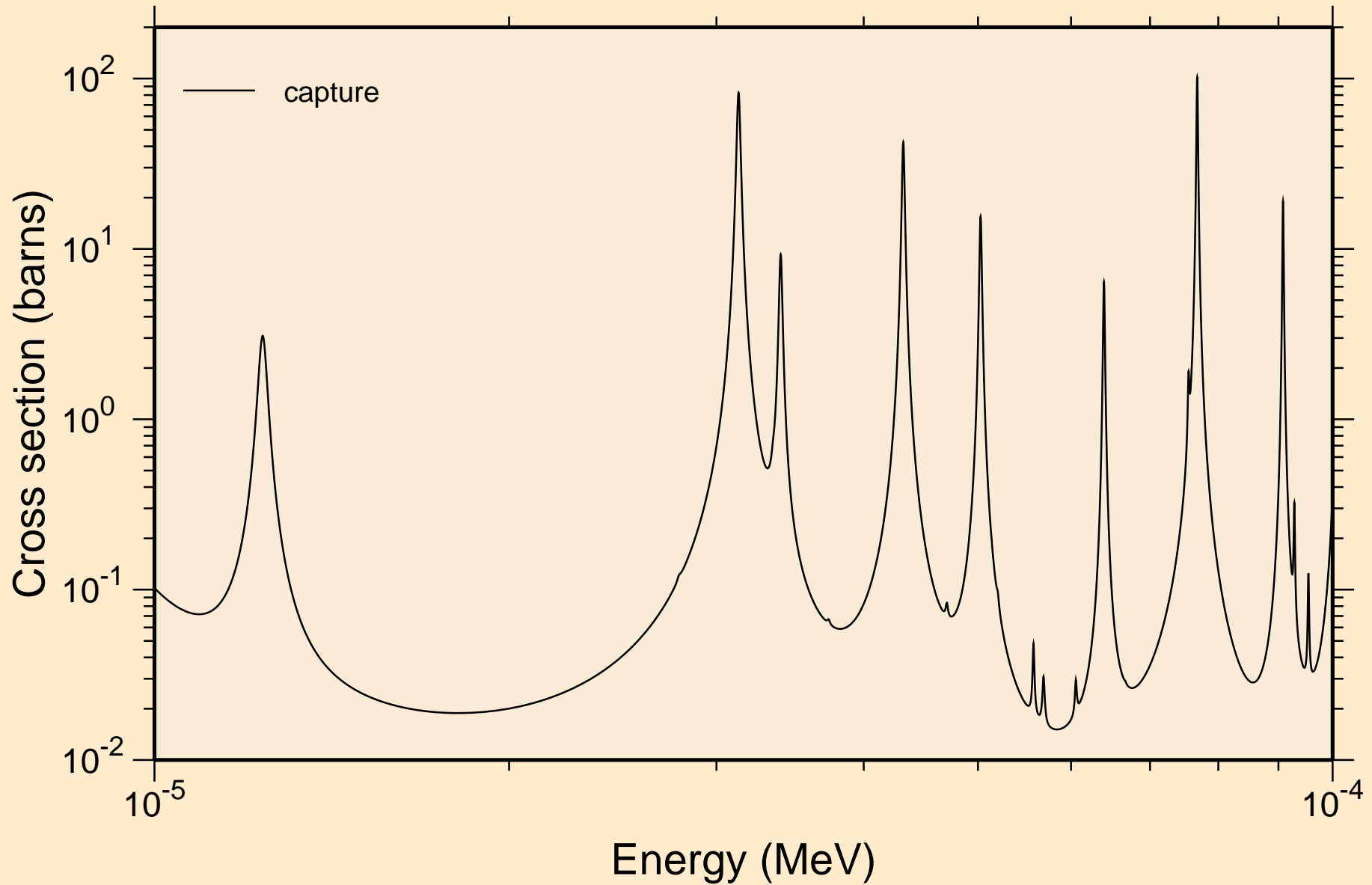
SN109 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
resonance total cross section



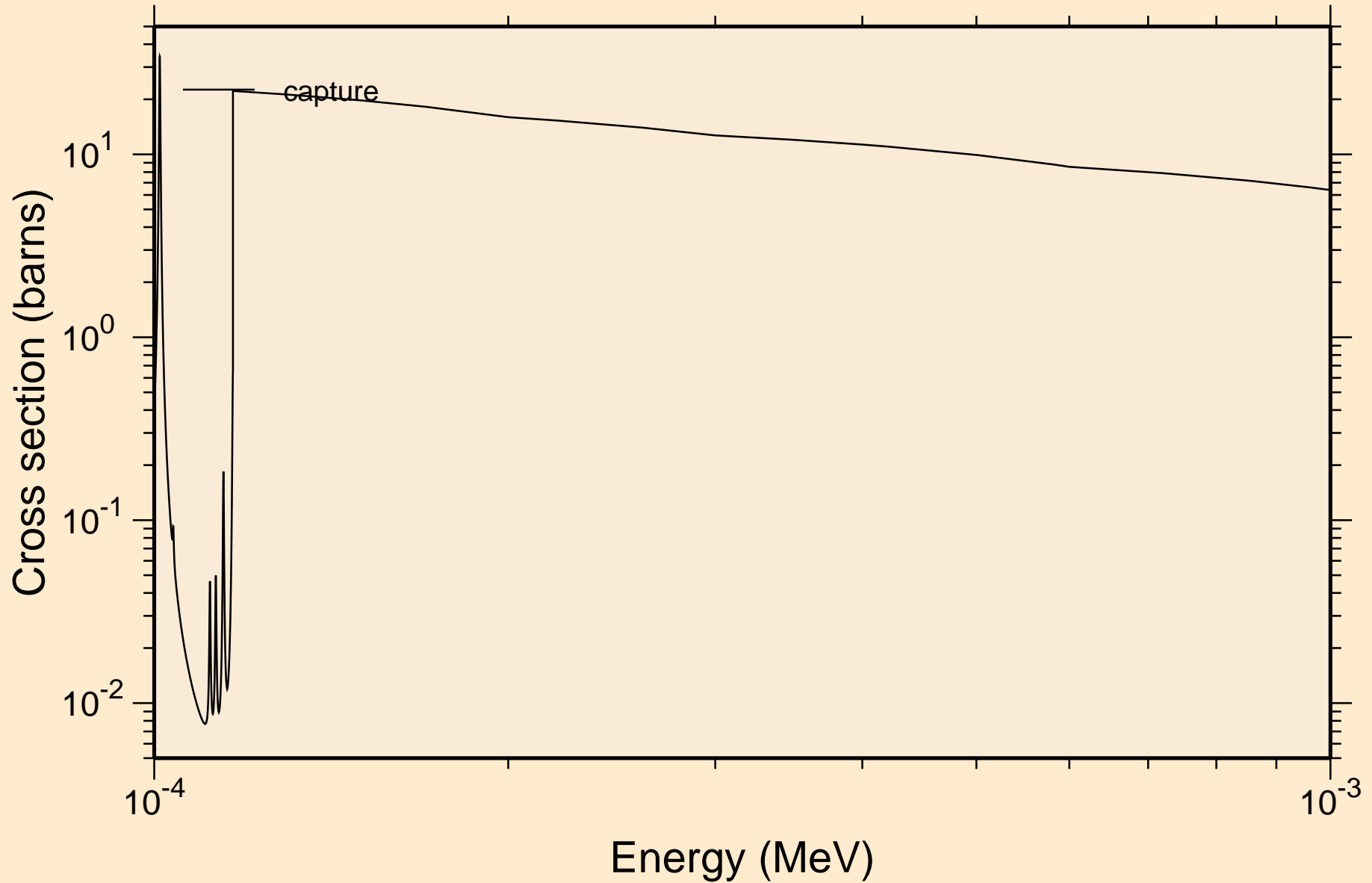
SN109 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
resonance absorption cross sections



SN109 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
resonance absorption cross sections

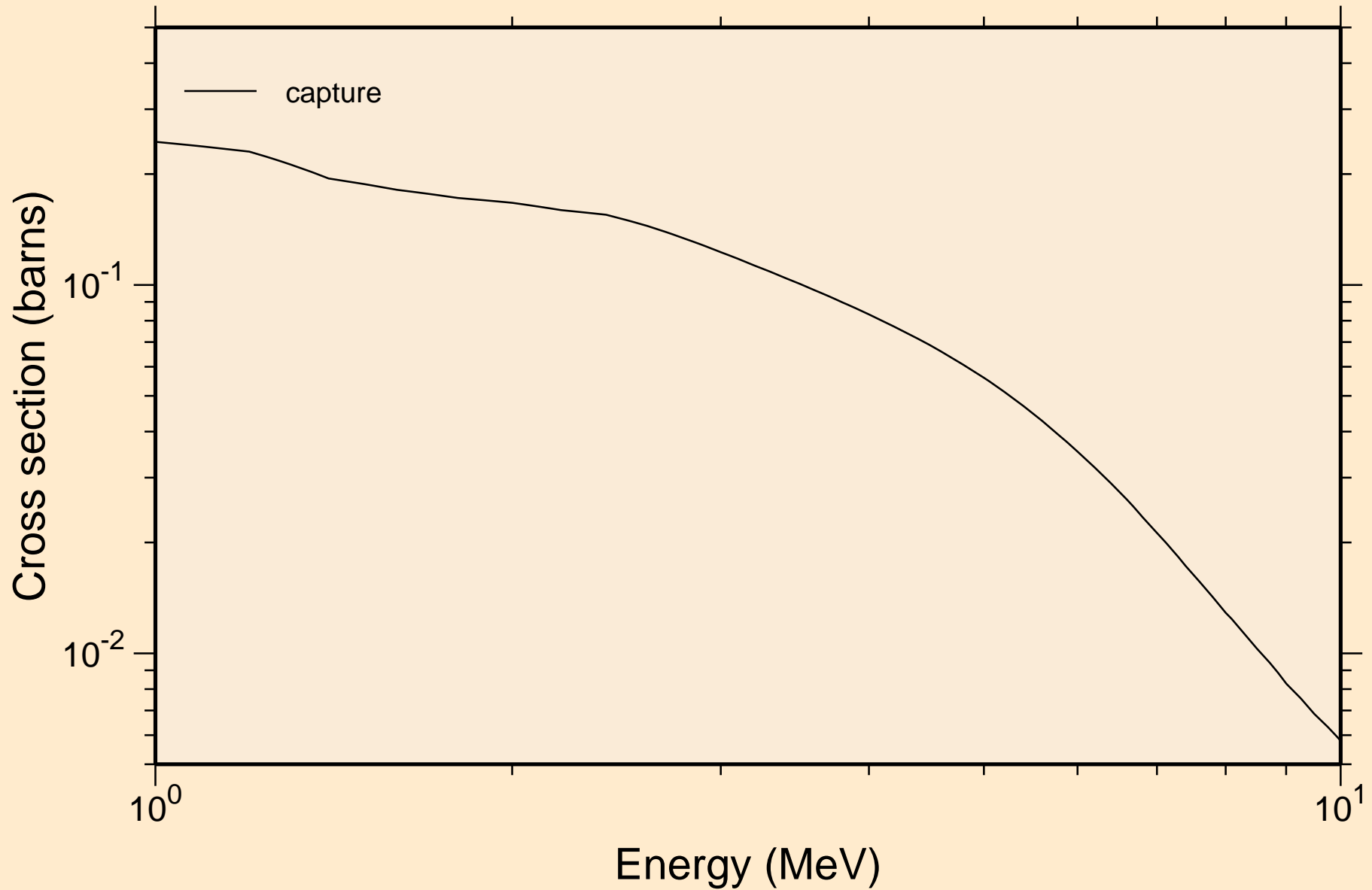


SN109 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
resonance absorption cross sections



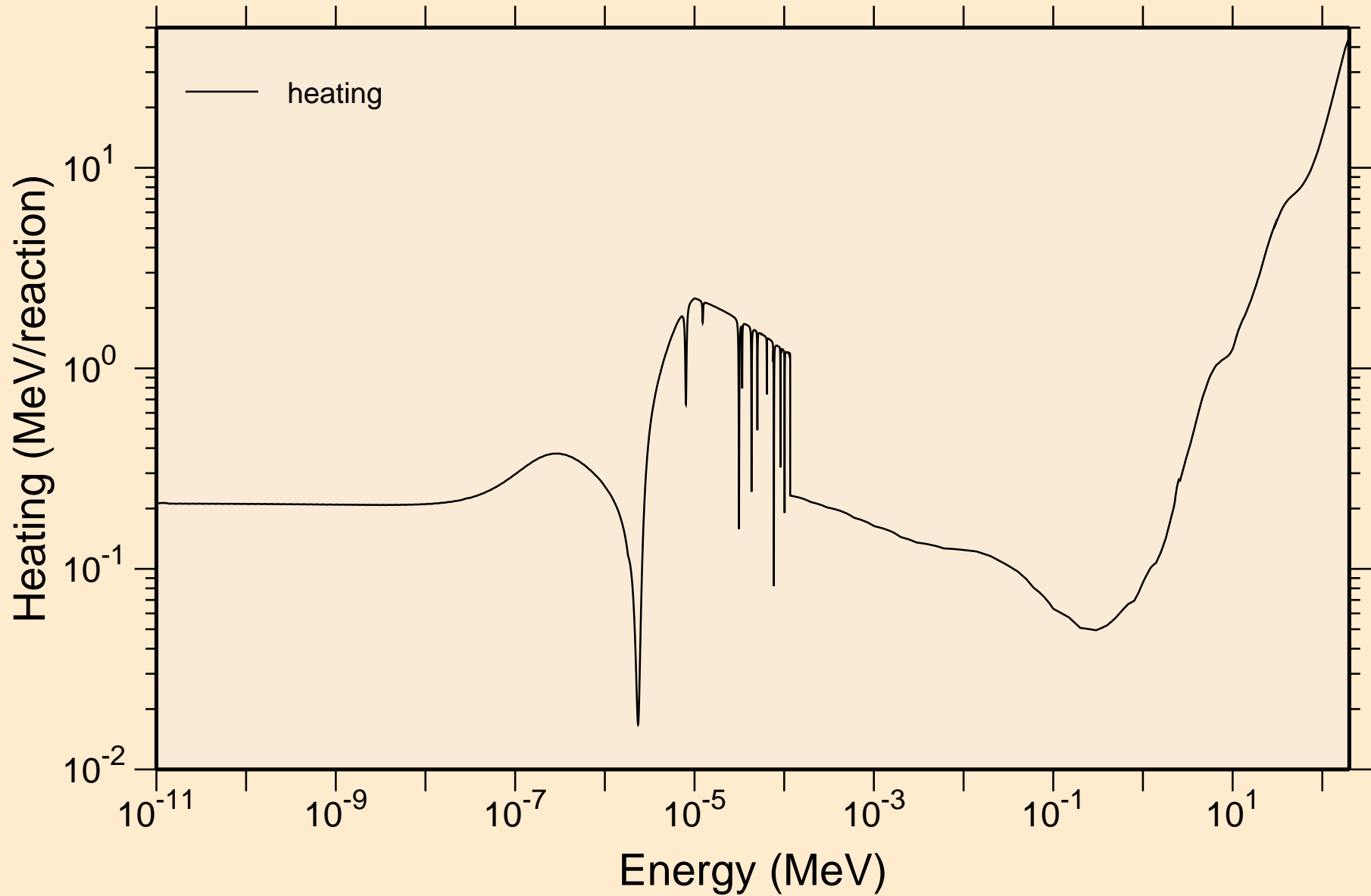


SN109 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
resonance absorption cross sections



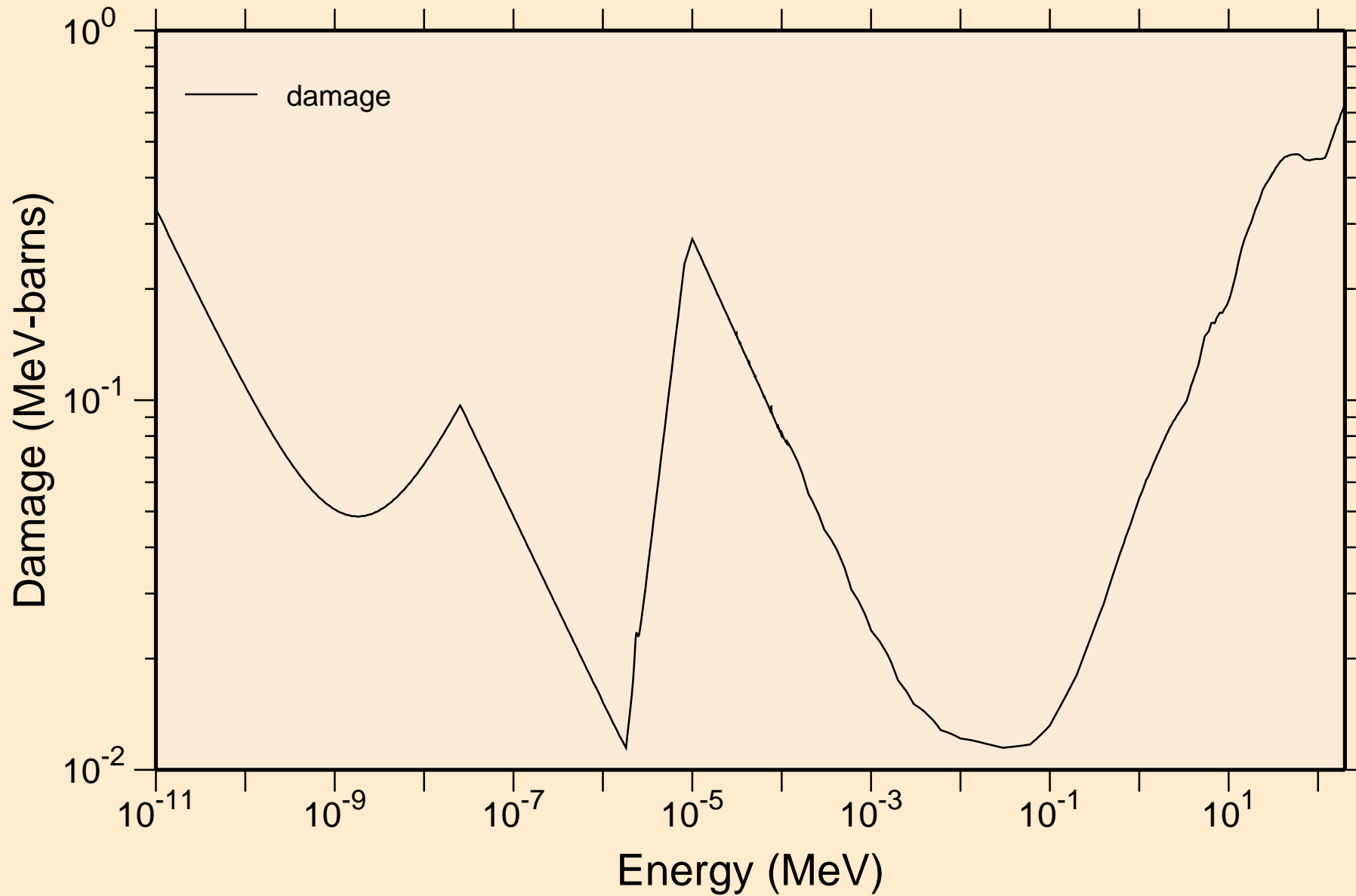
# SN109 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

## Heating



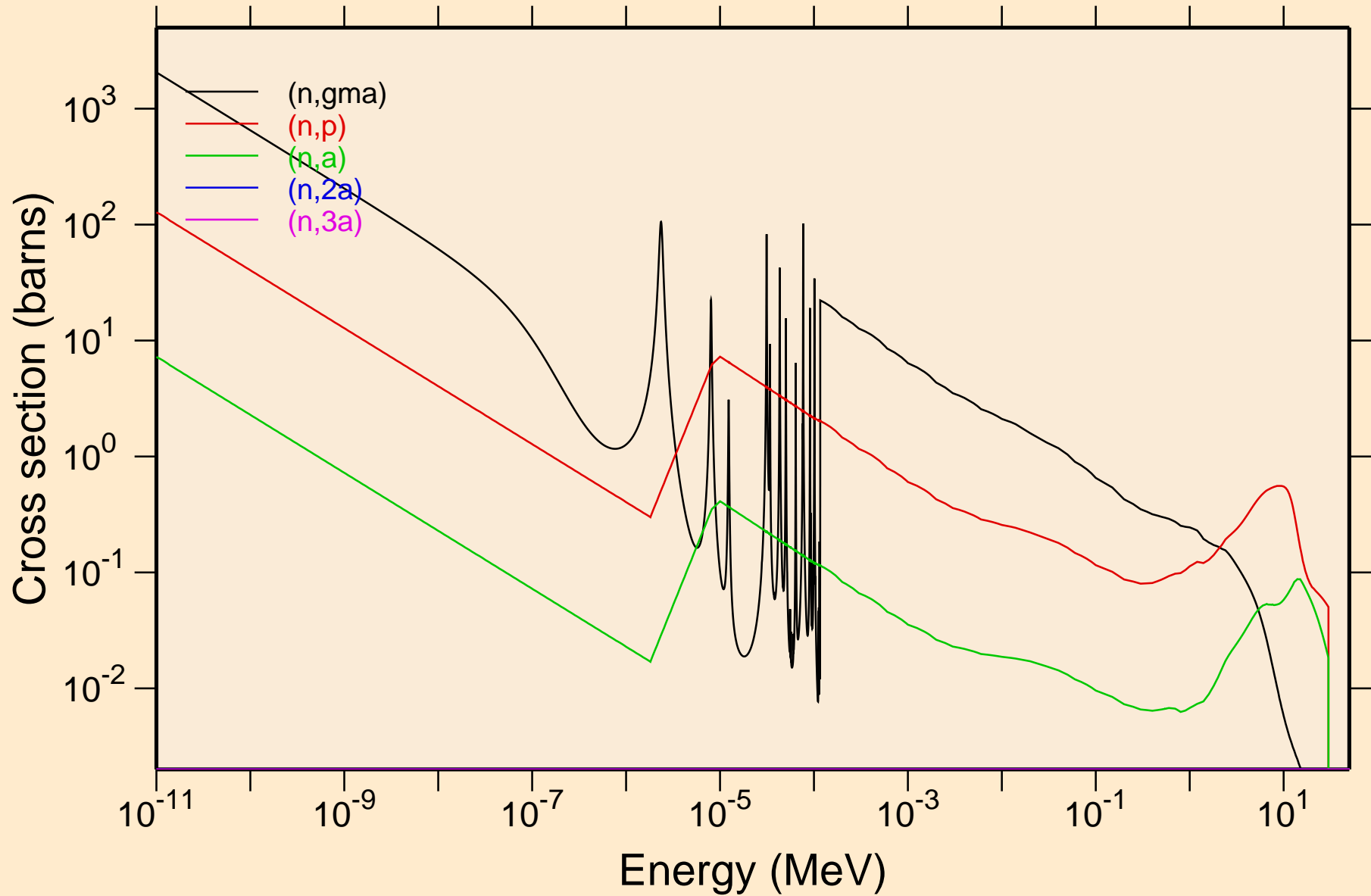
# SN109 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

## Damage



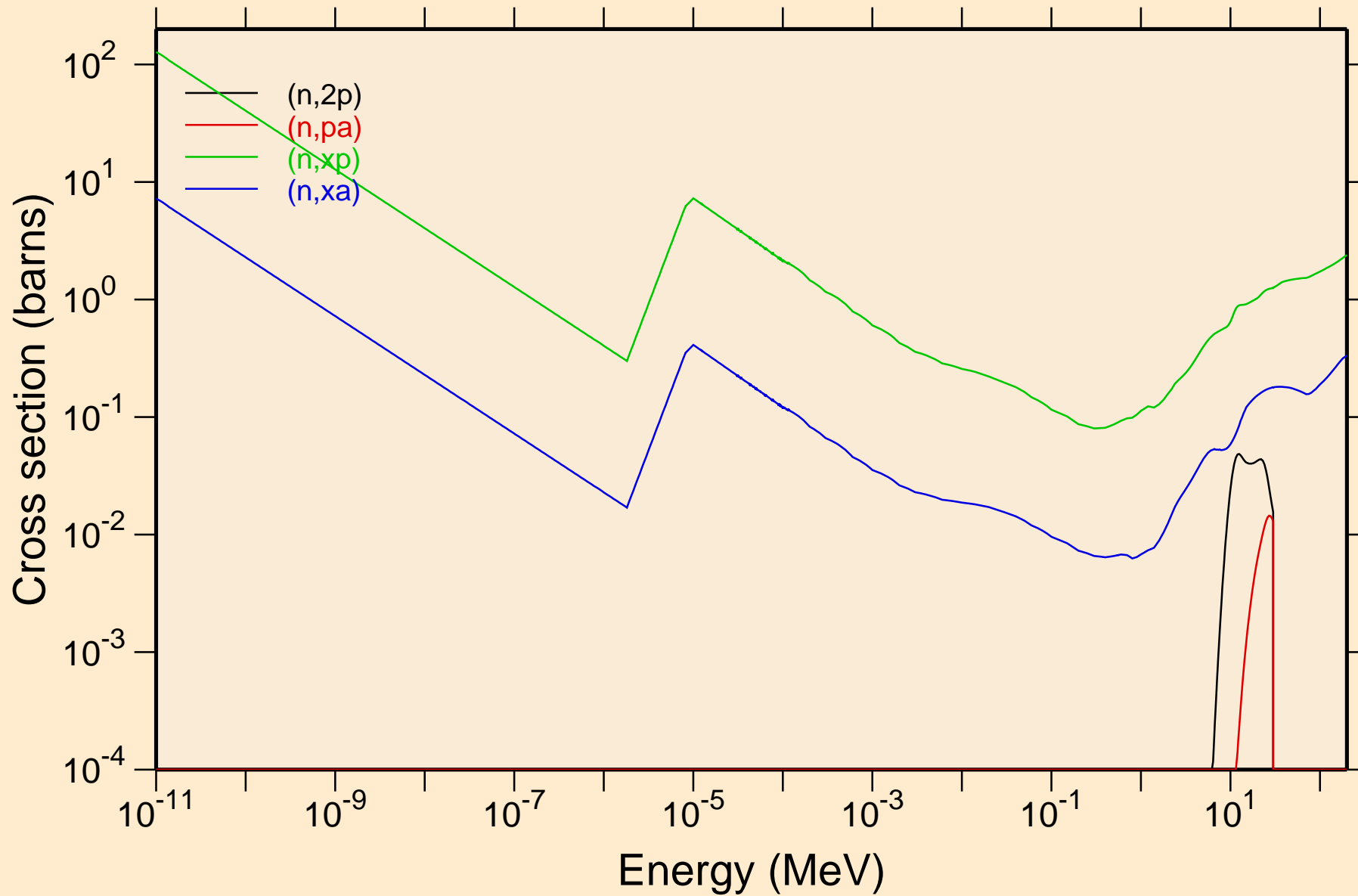
# SN109 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

## Non-threshold reactions



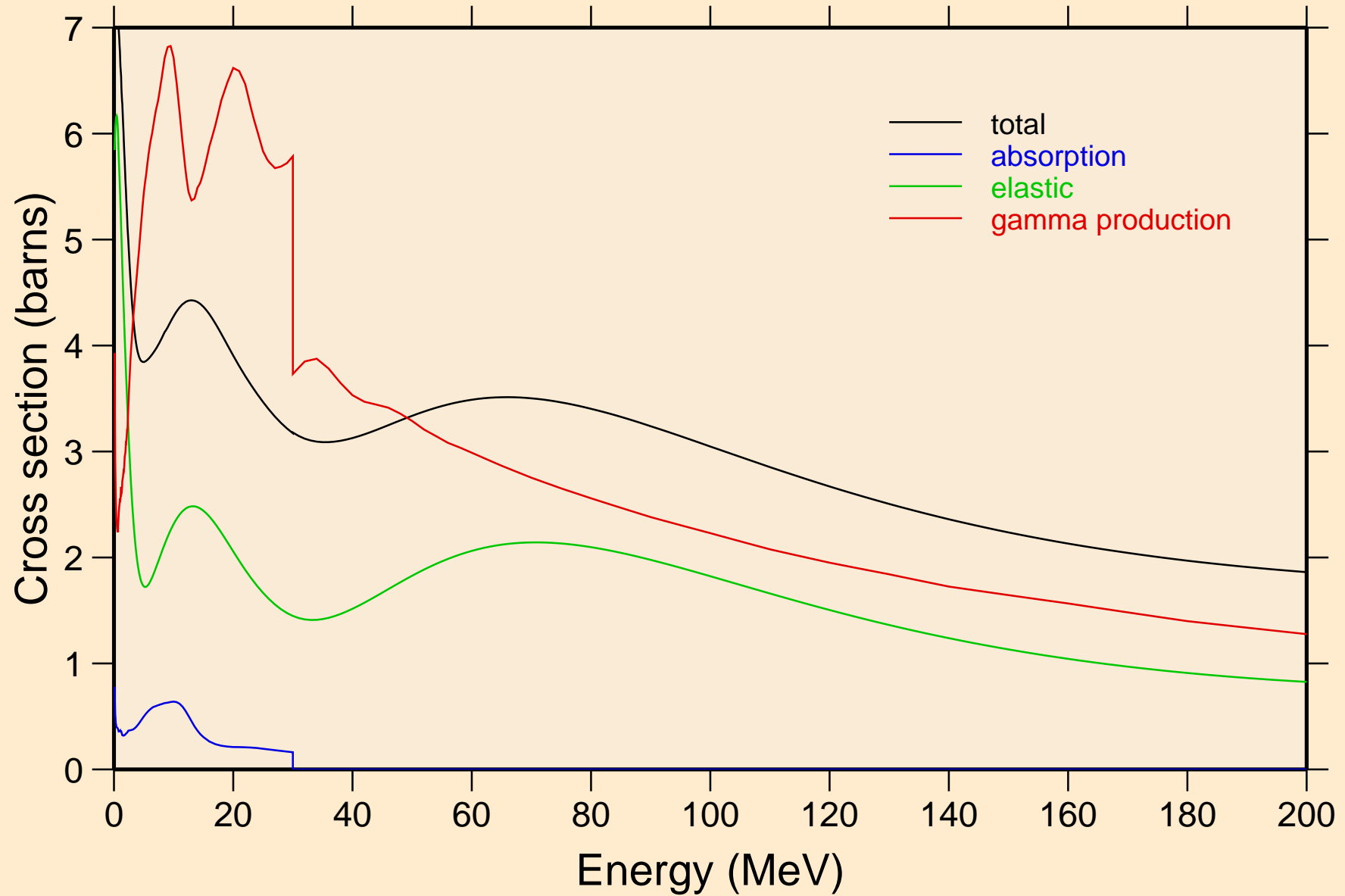
# SN109 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

## Non-threshold reactions



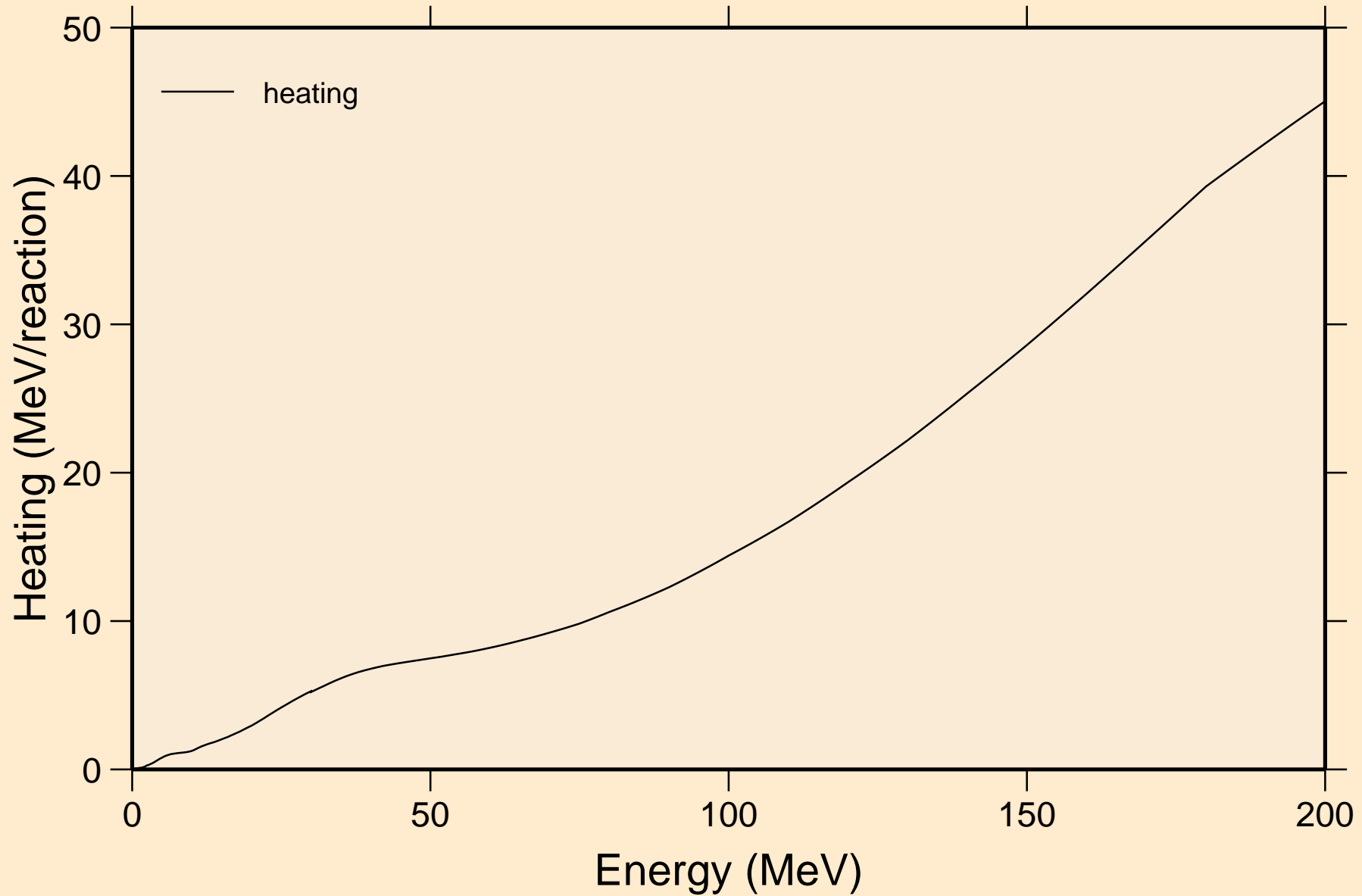
# SN109 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

## Principal cross sections



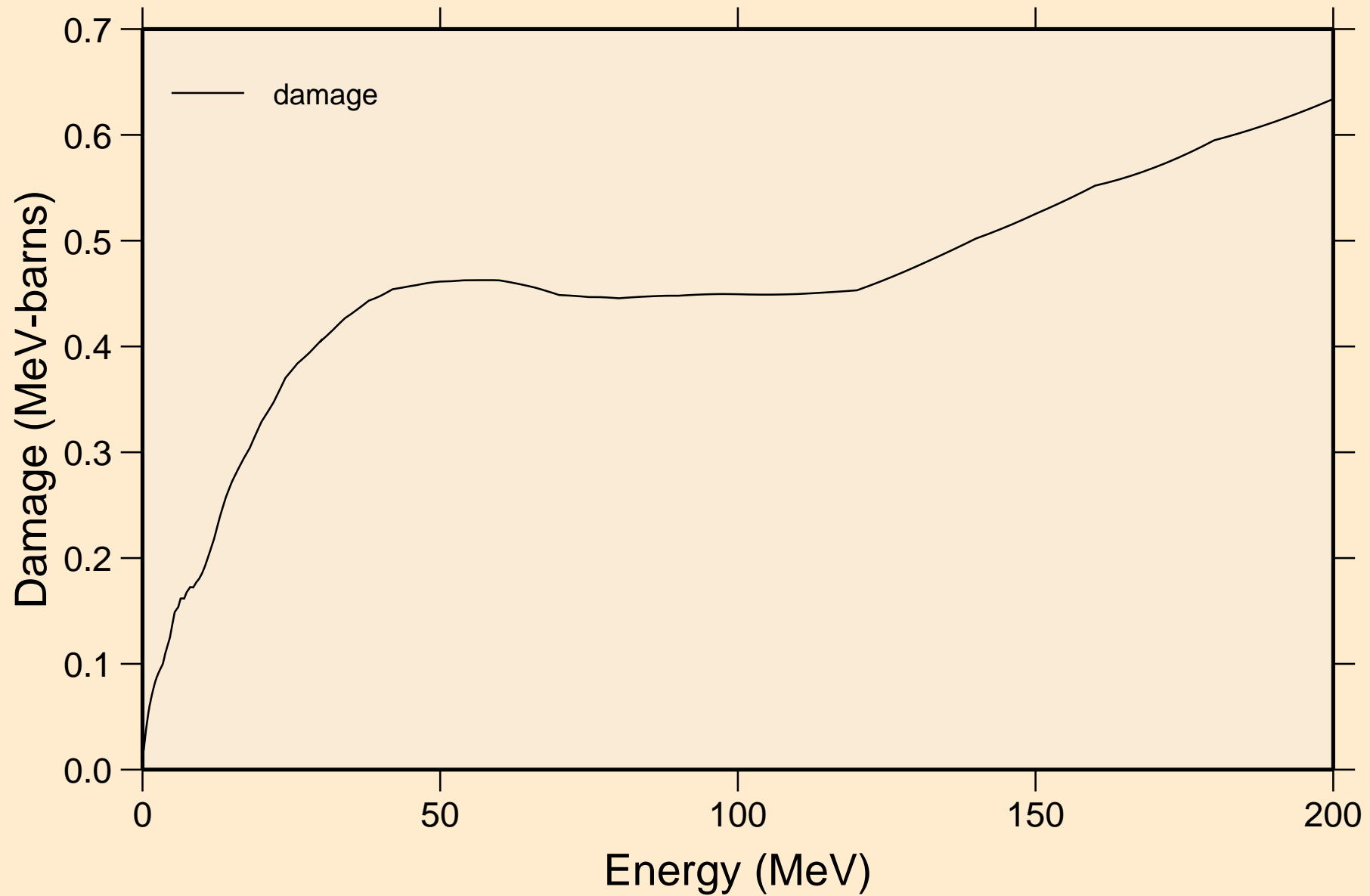
# SN109 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

## Heating



# SN109 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

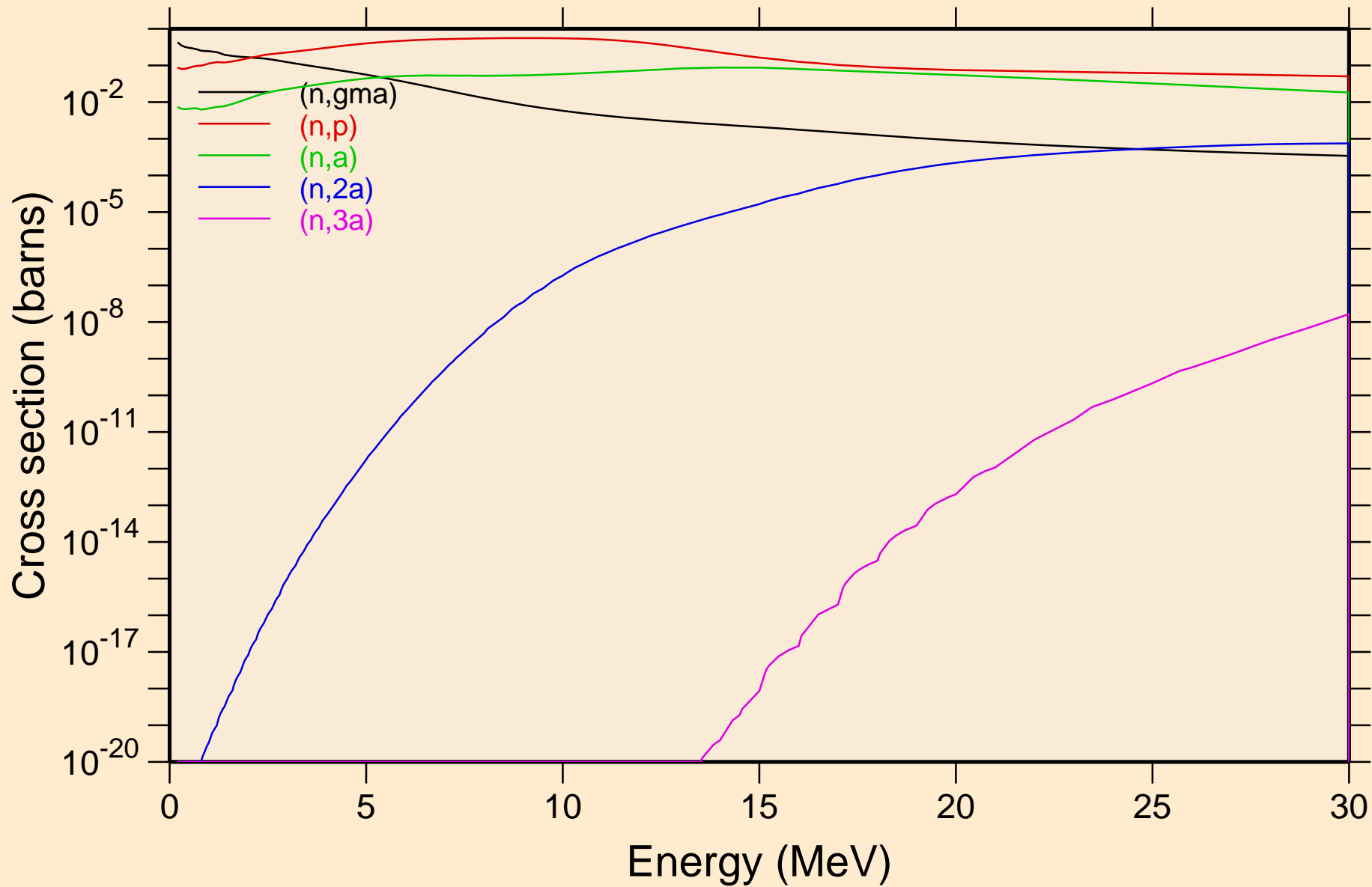
## Damage





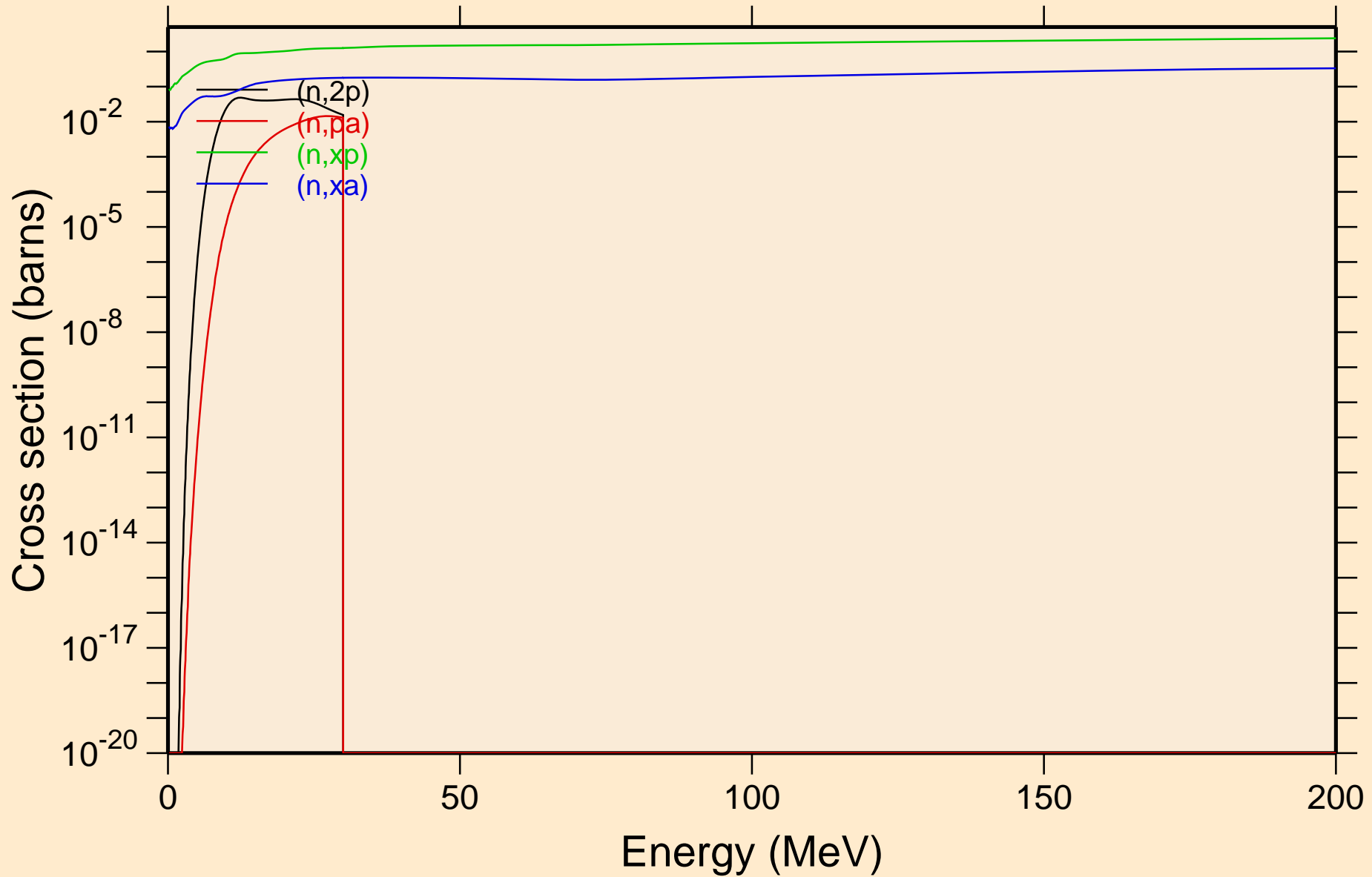
# SN109 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

## Non-threshold reactions



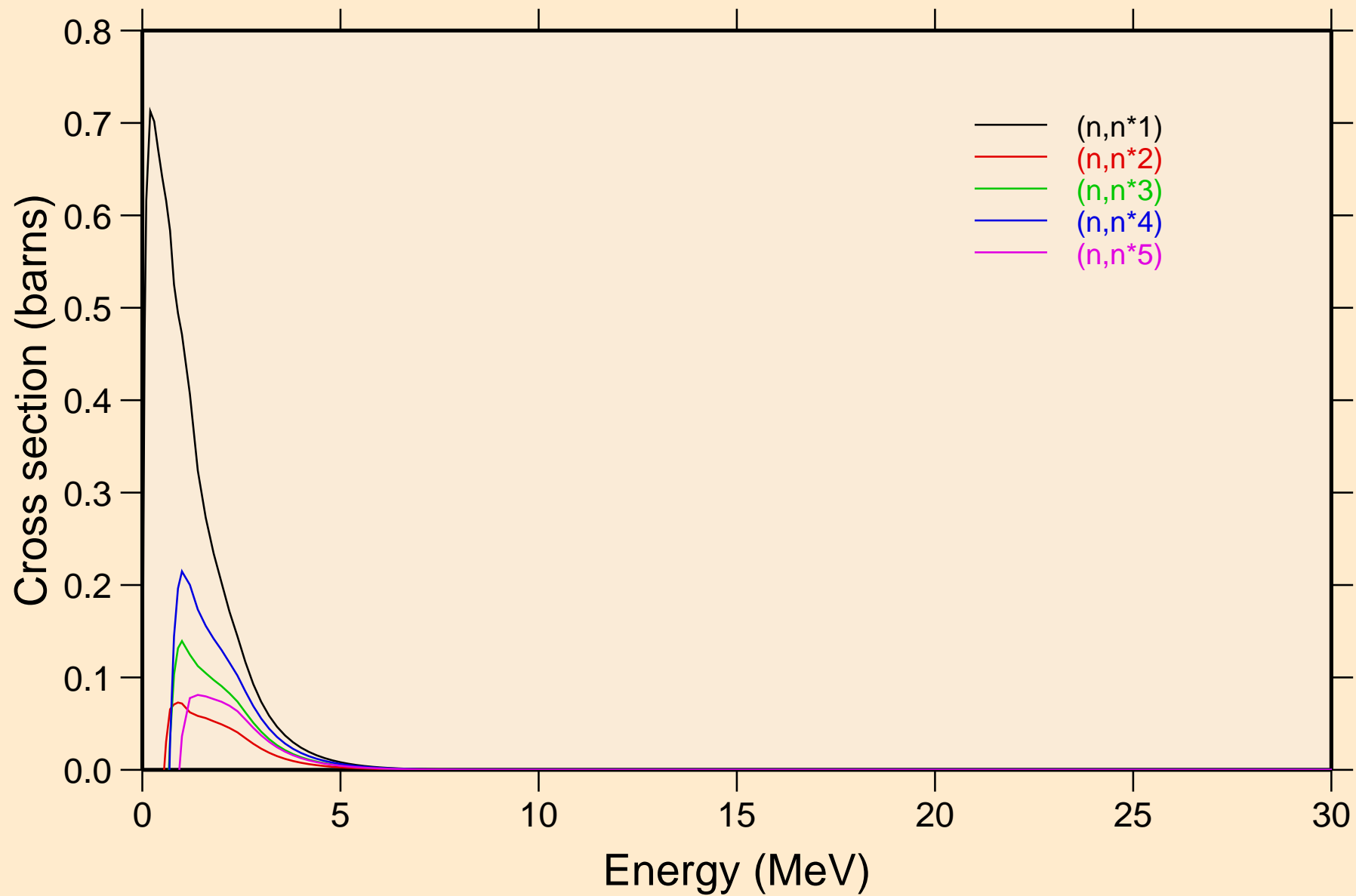
# SN109 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

## Non-threshold reactions



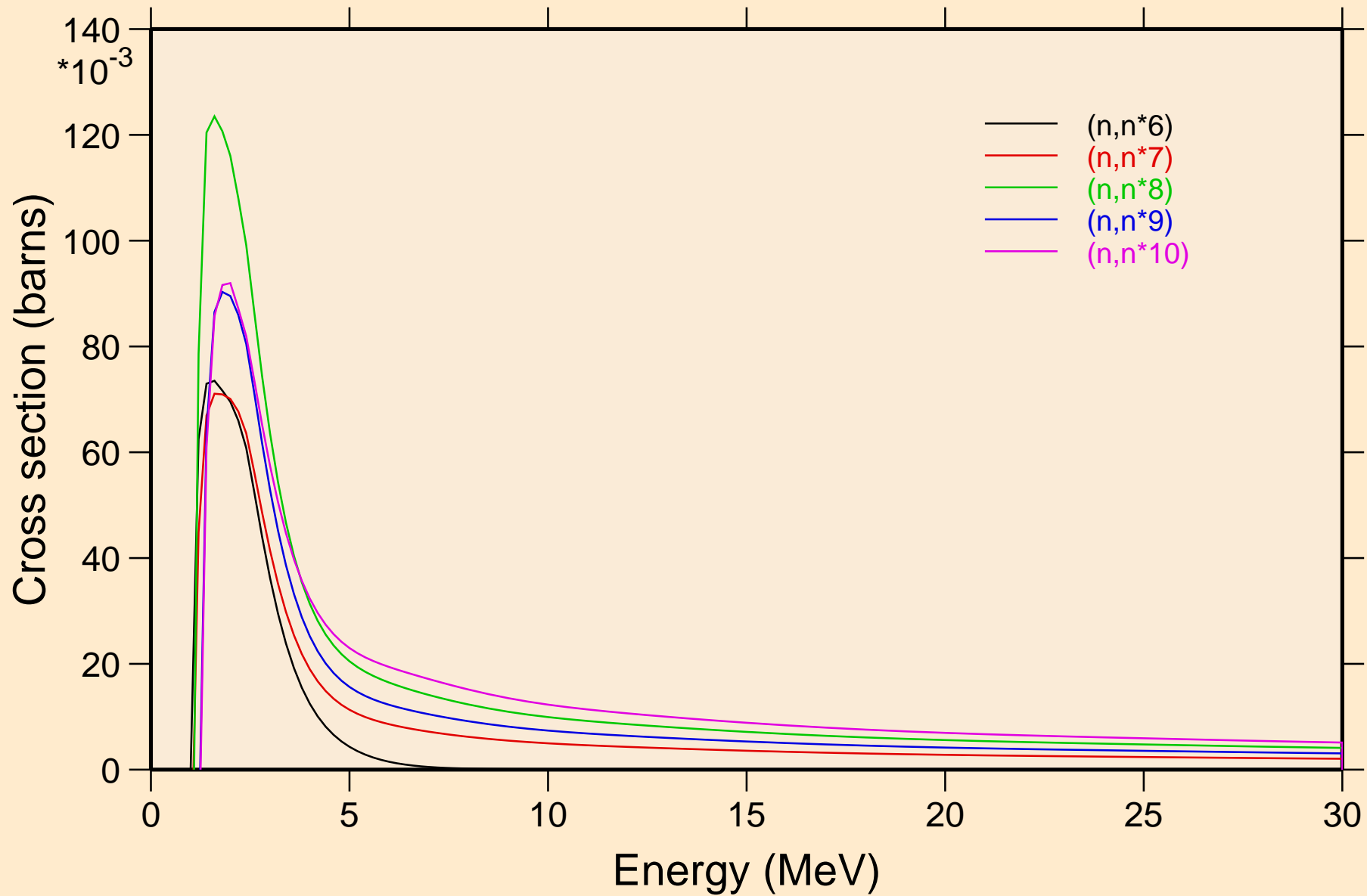
# SN109 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

## Inelastic levels



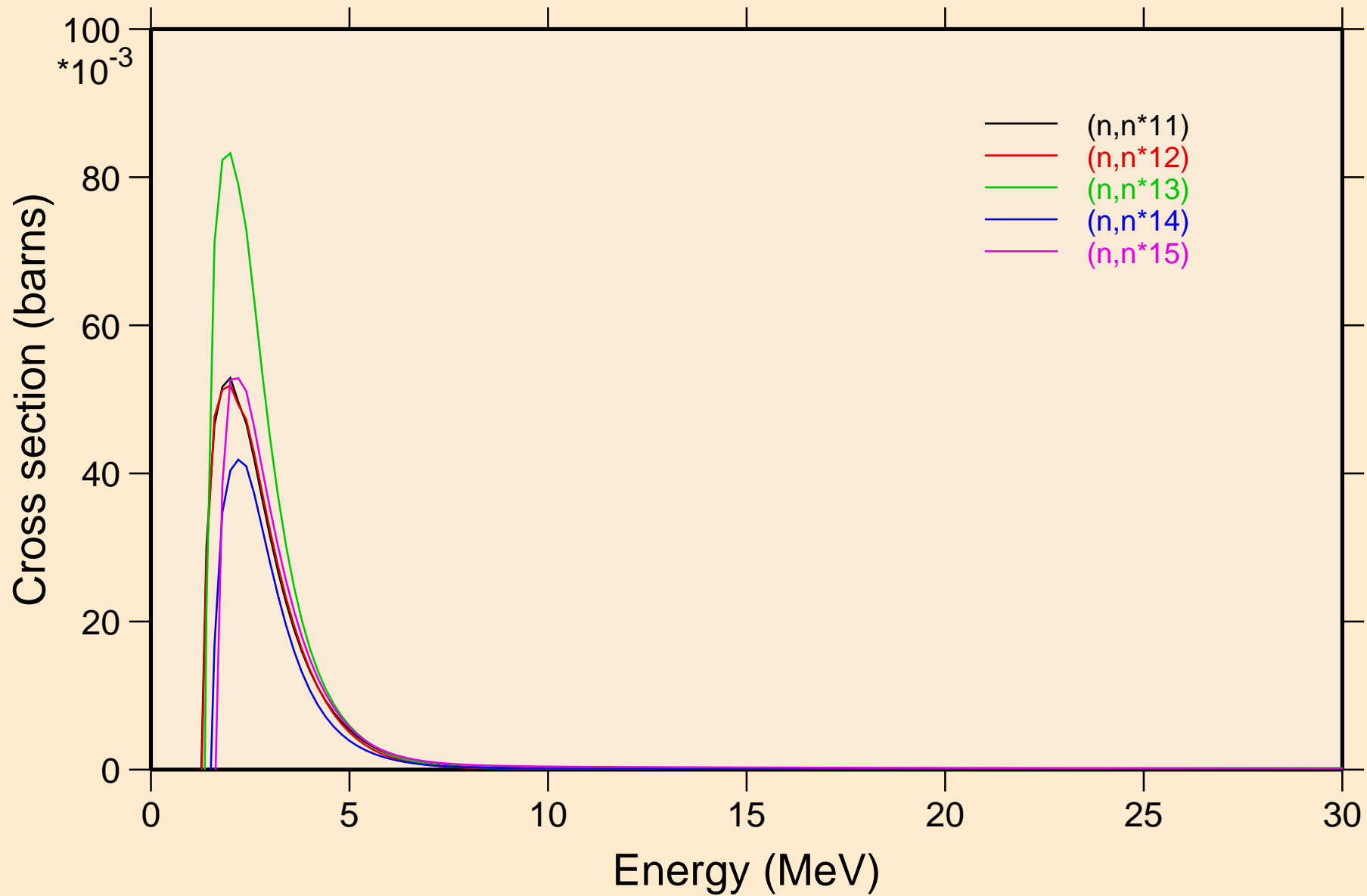
# SN109 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

## Inelastic levels



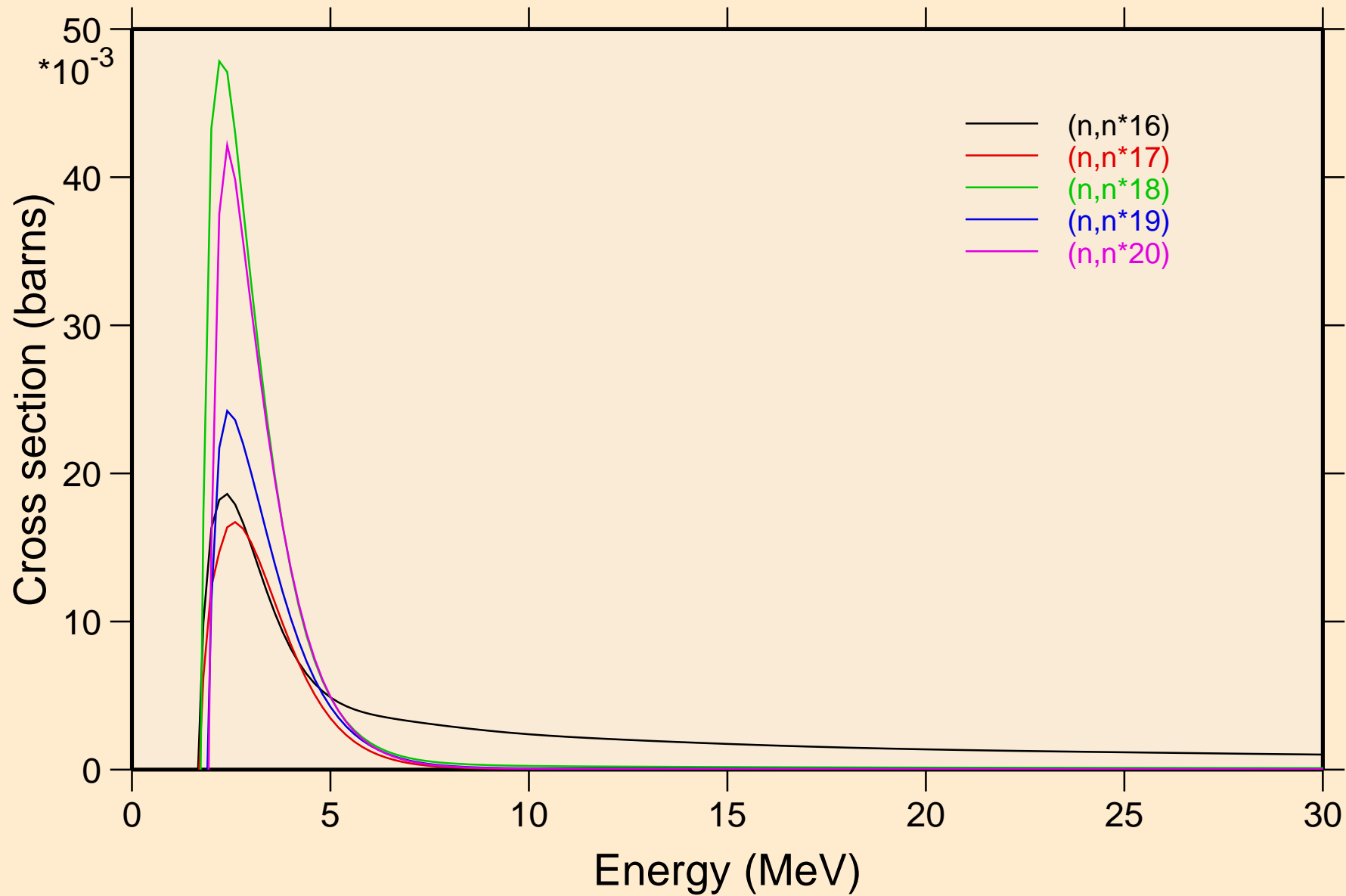
# SN109 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

## Inelastic levels

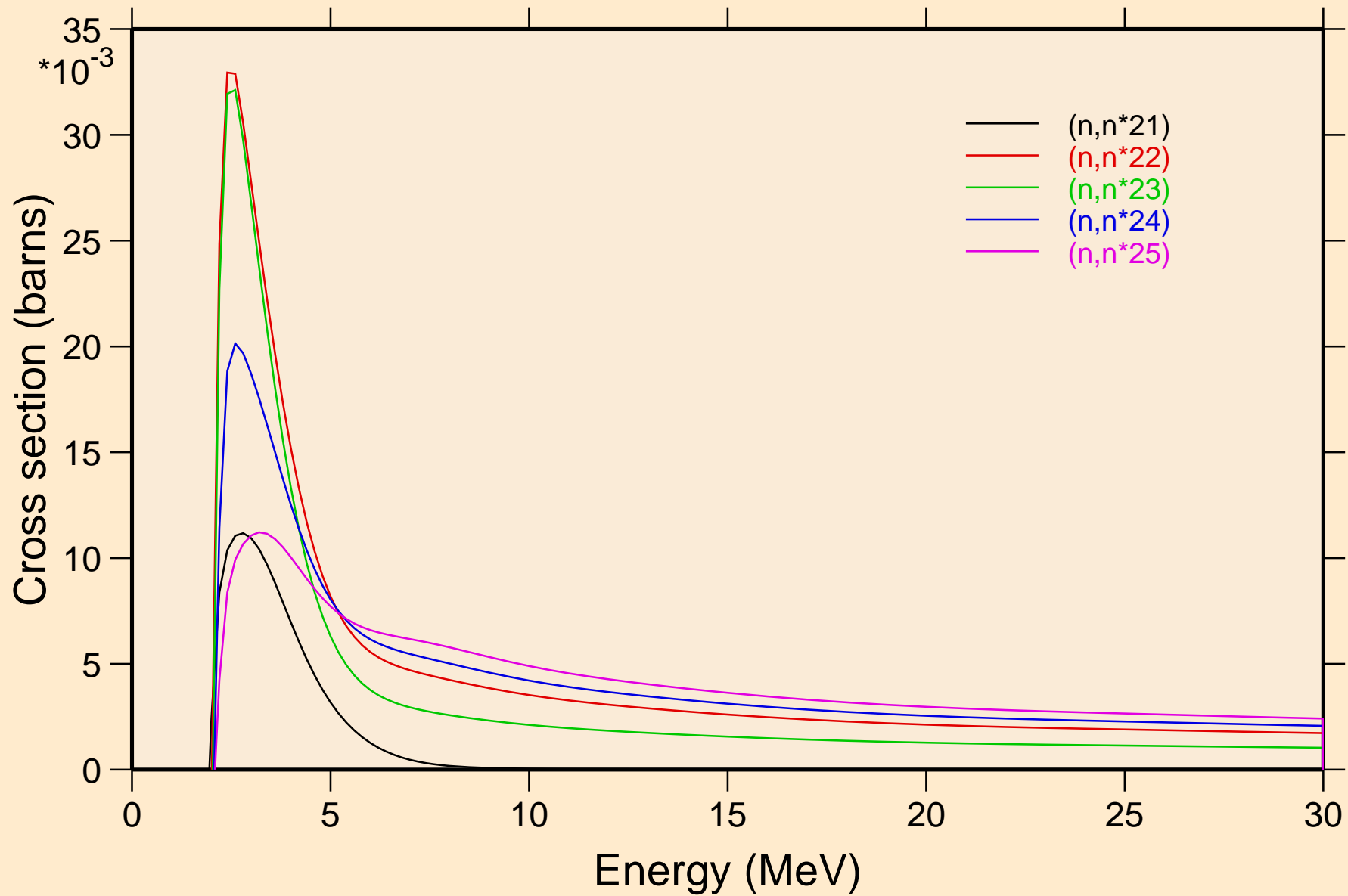


# SN109 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

## Inelastic levels

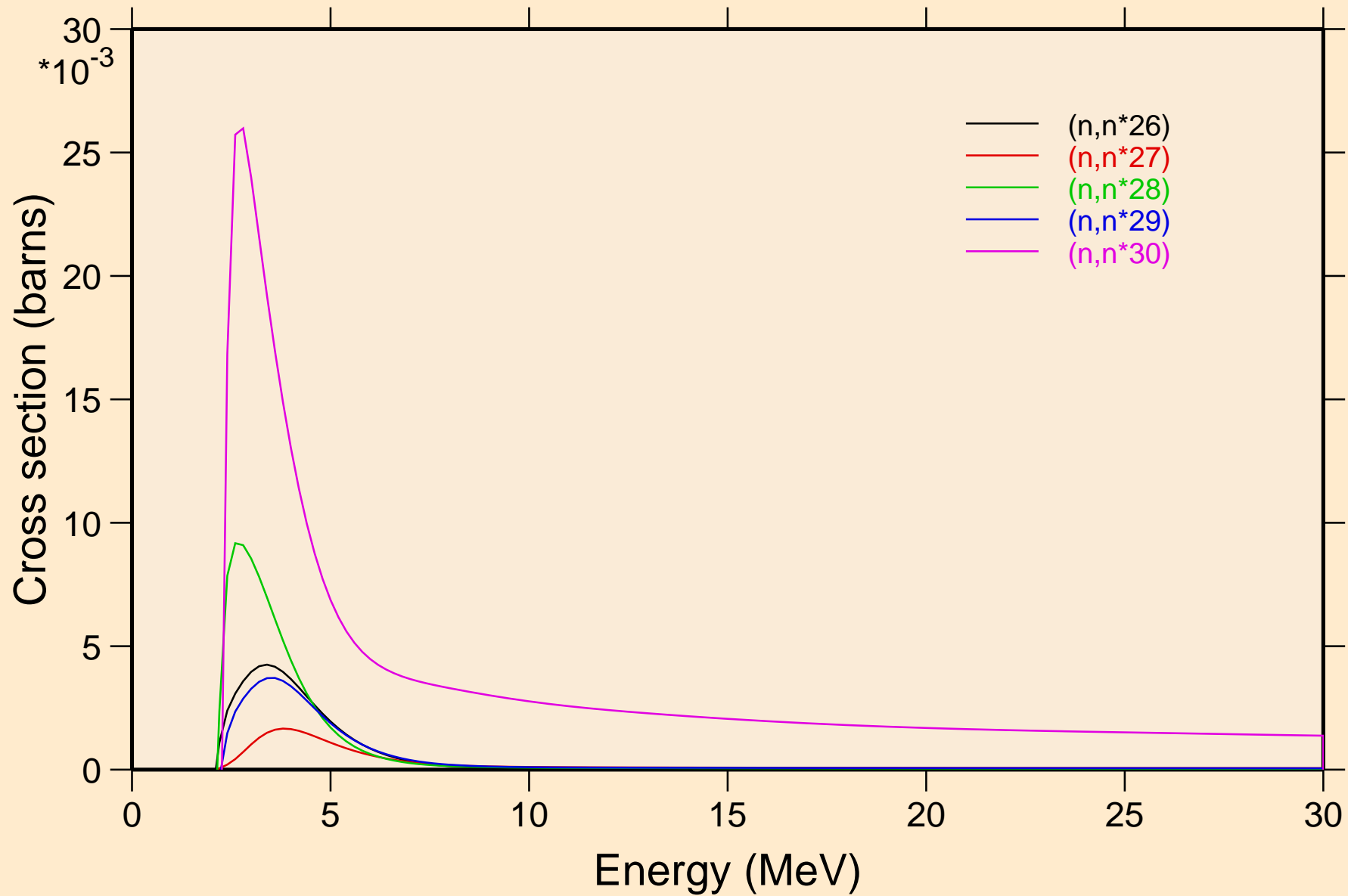


SN109 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Inelastic levels



# SN109 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

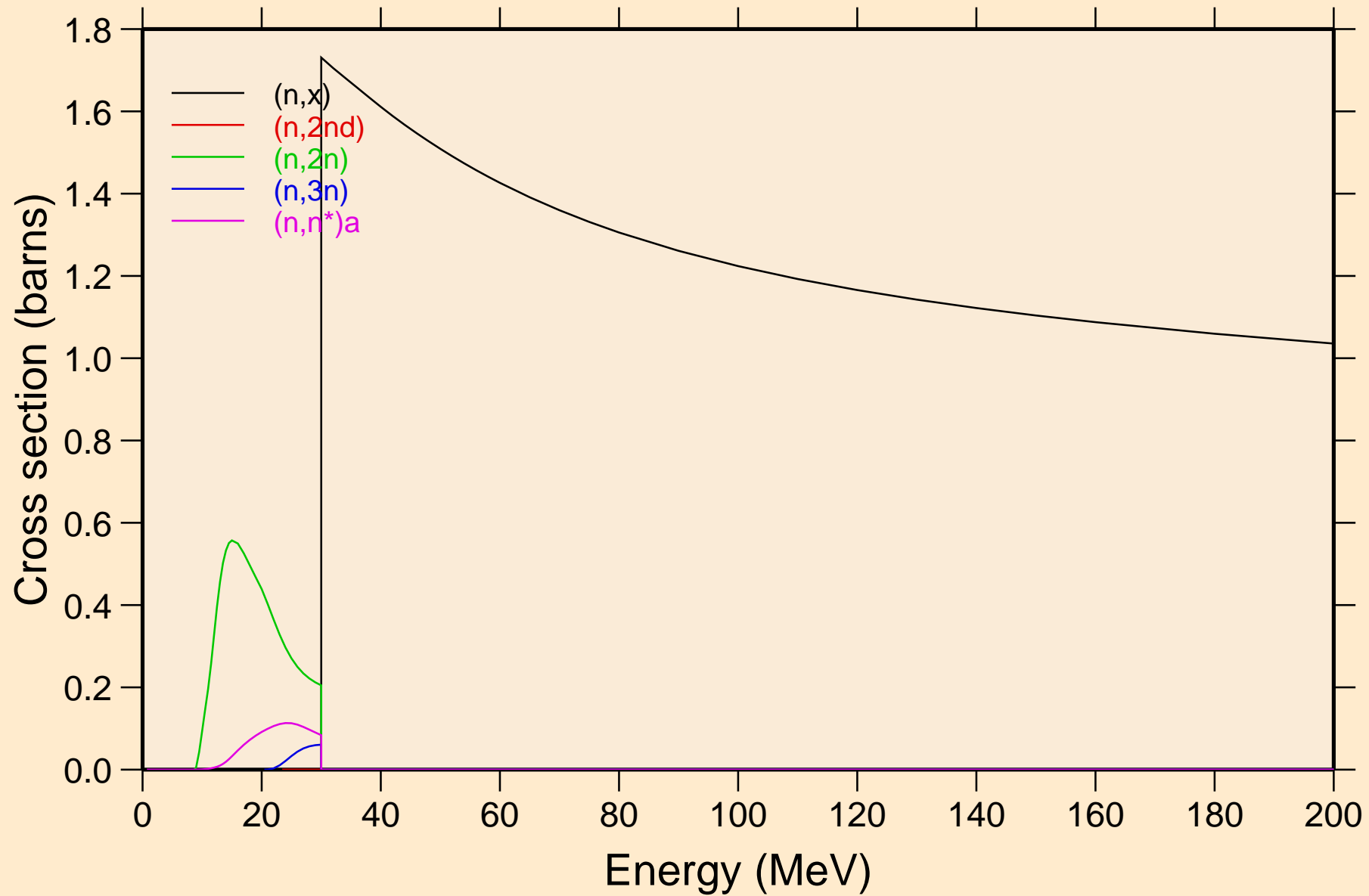
## Inelastic levels





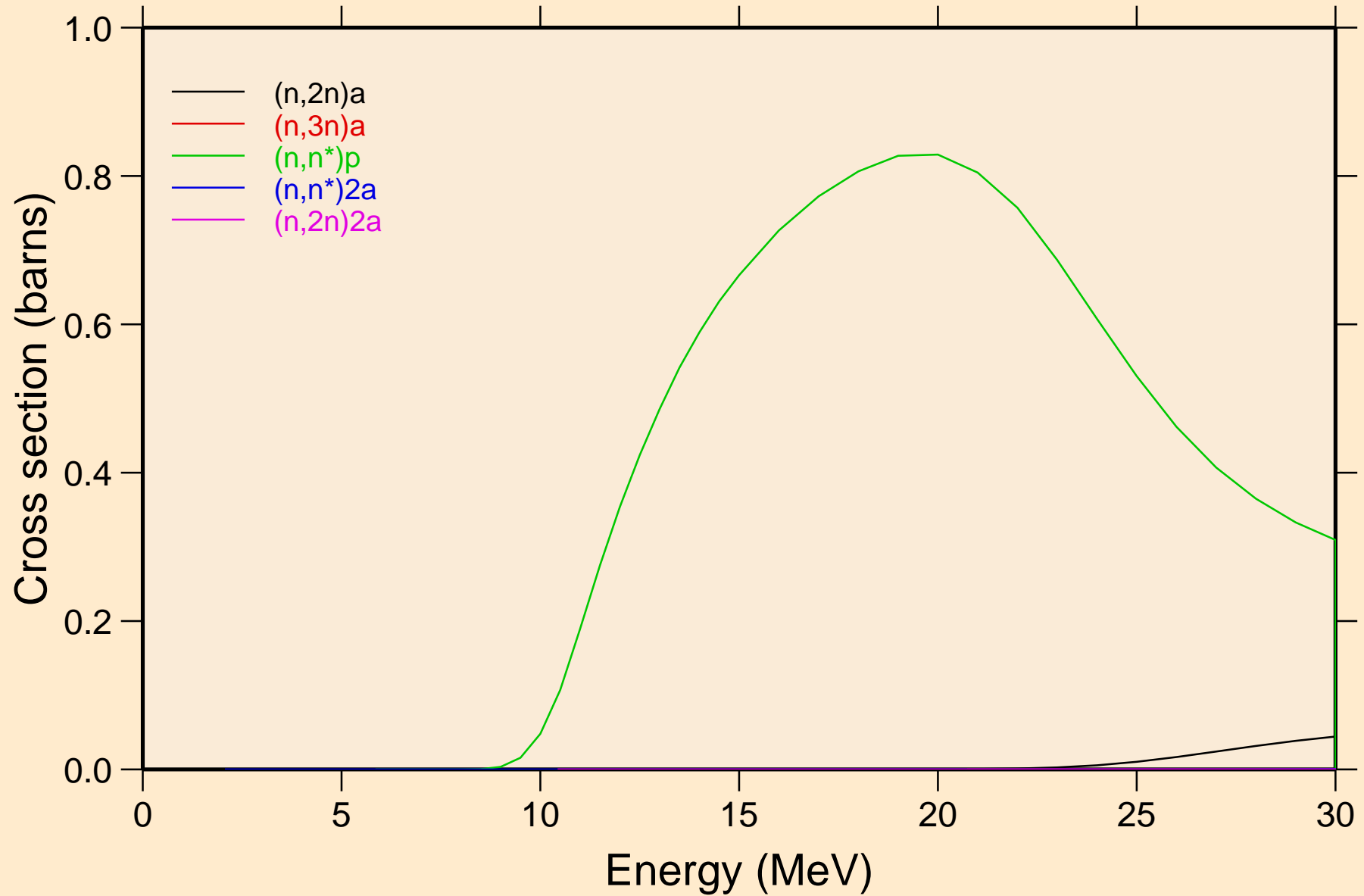
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## Threshold reactions



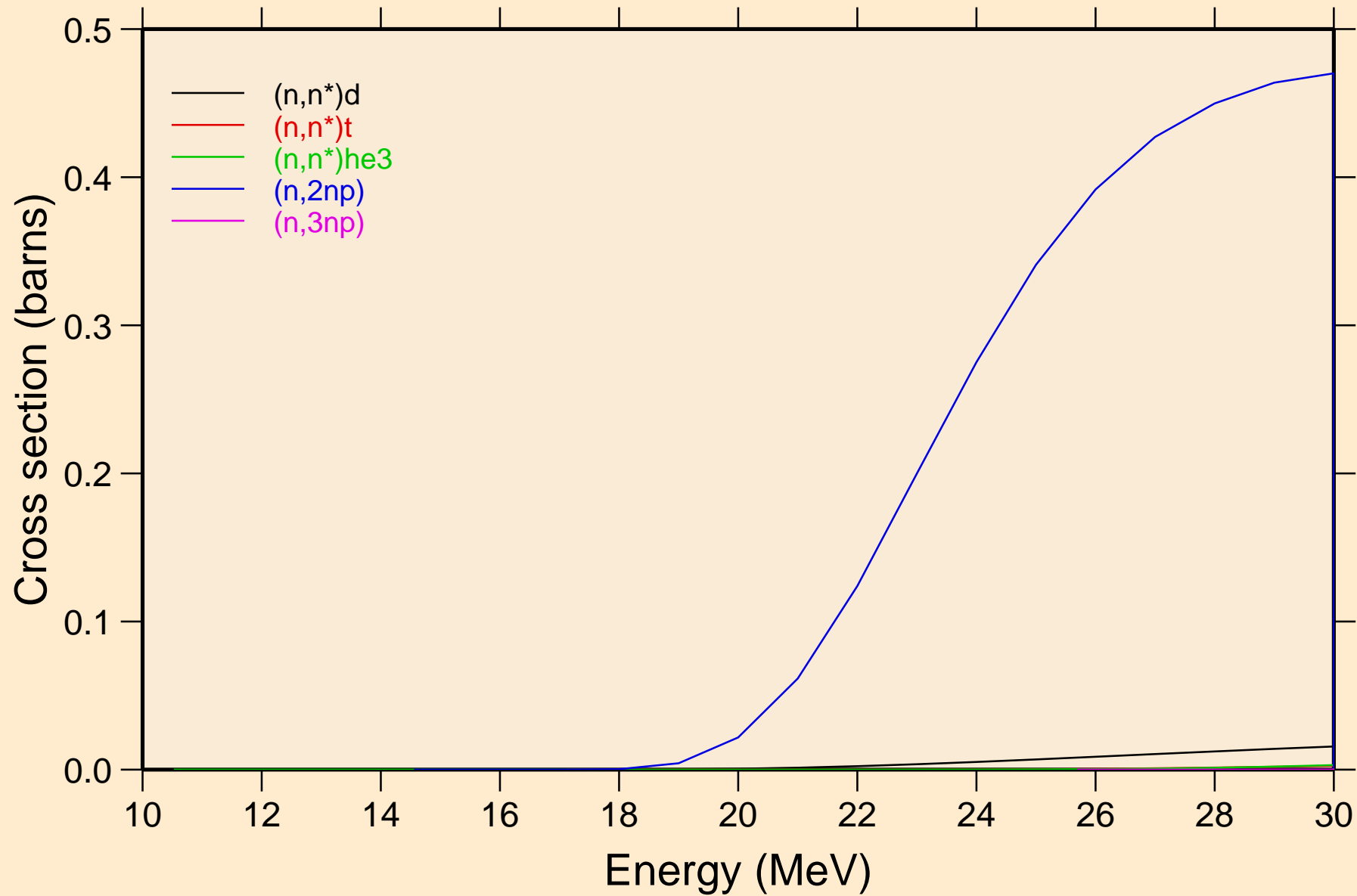
# SN109 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

## Threshold reactions



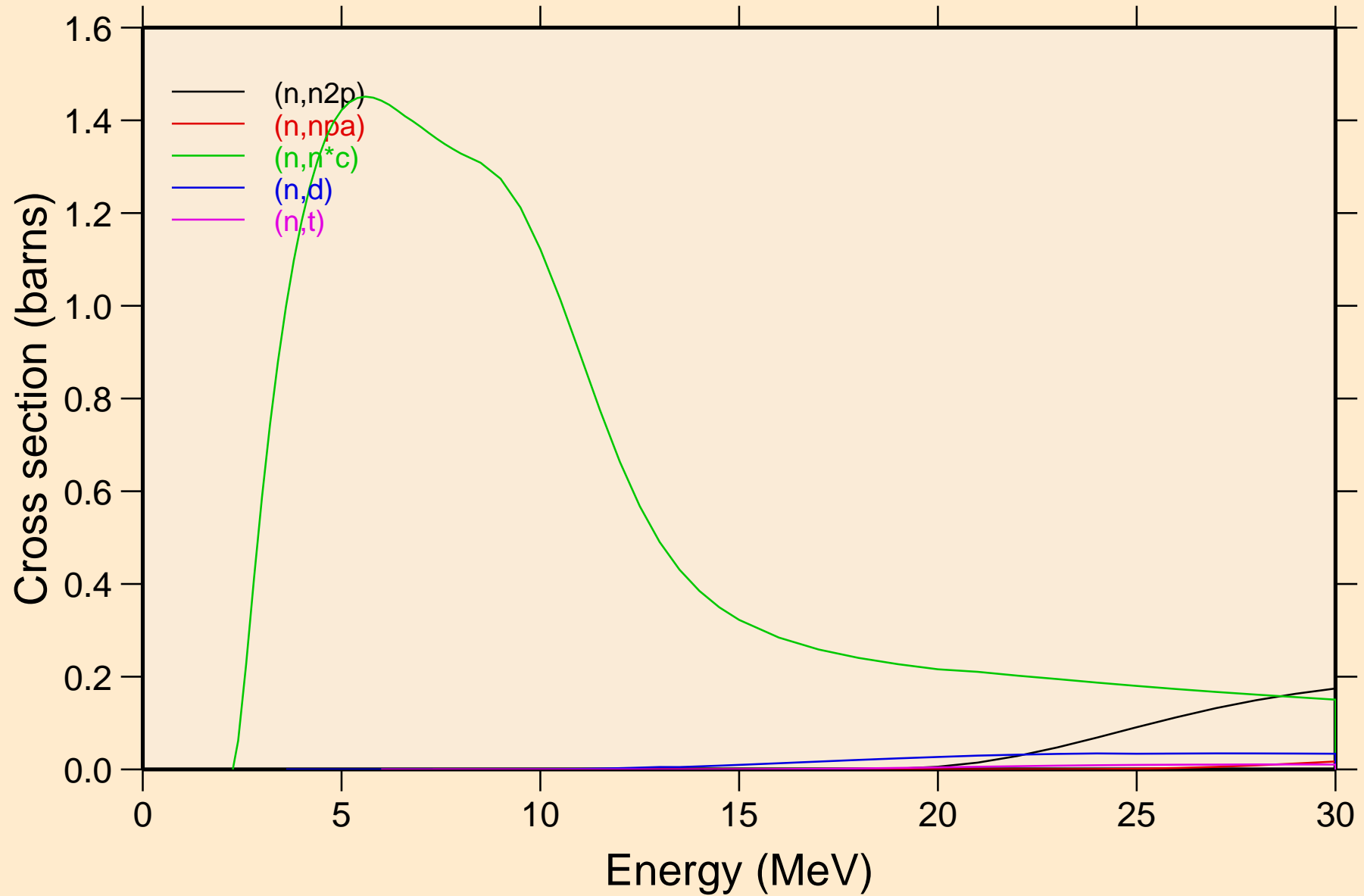
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## Threshold reactions

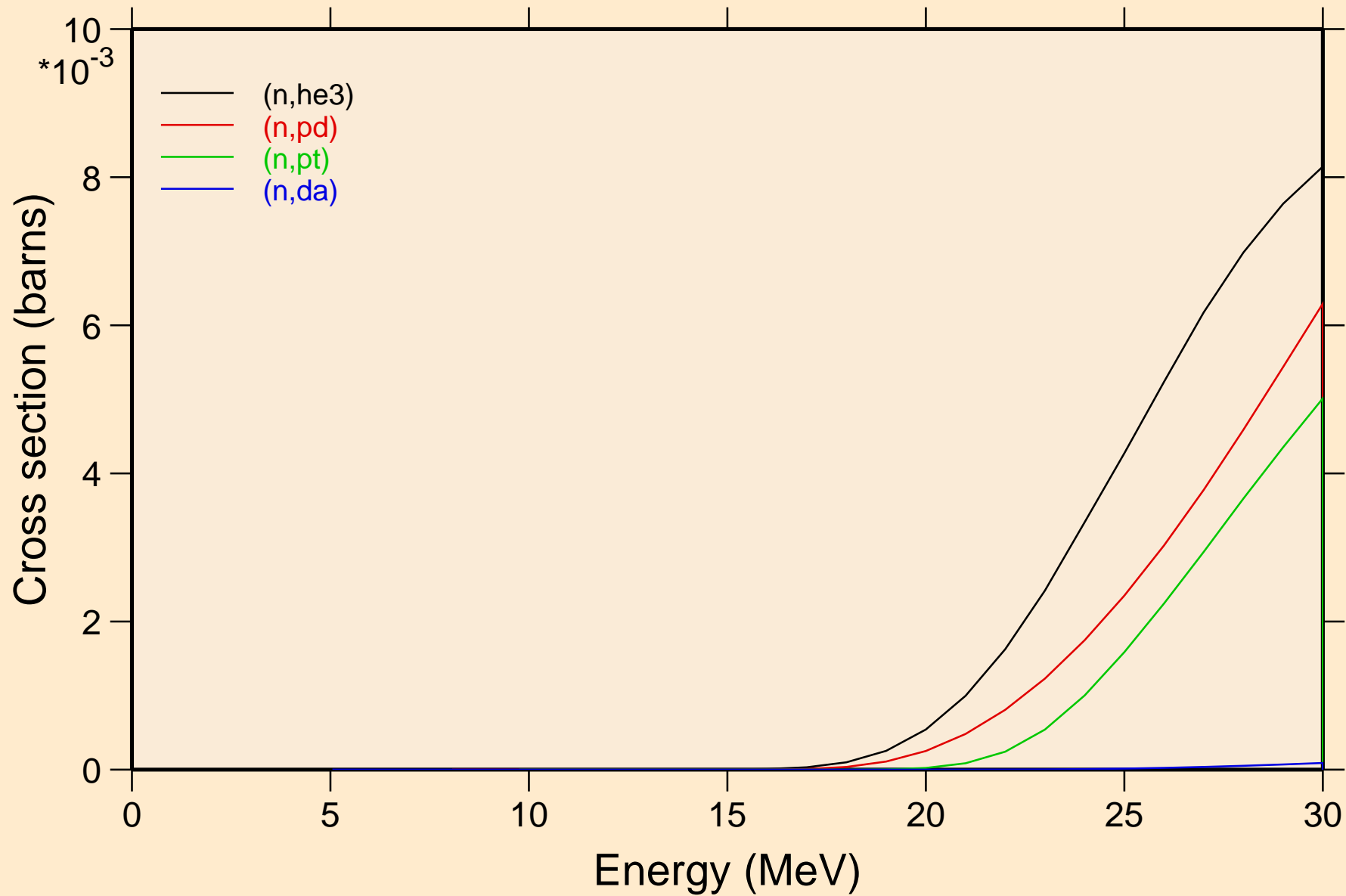


# SN109 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

## Threshold reactions

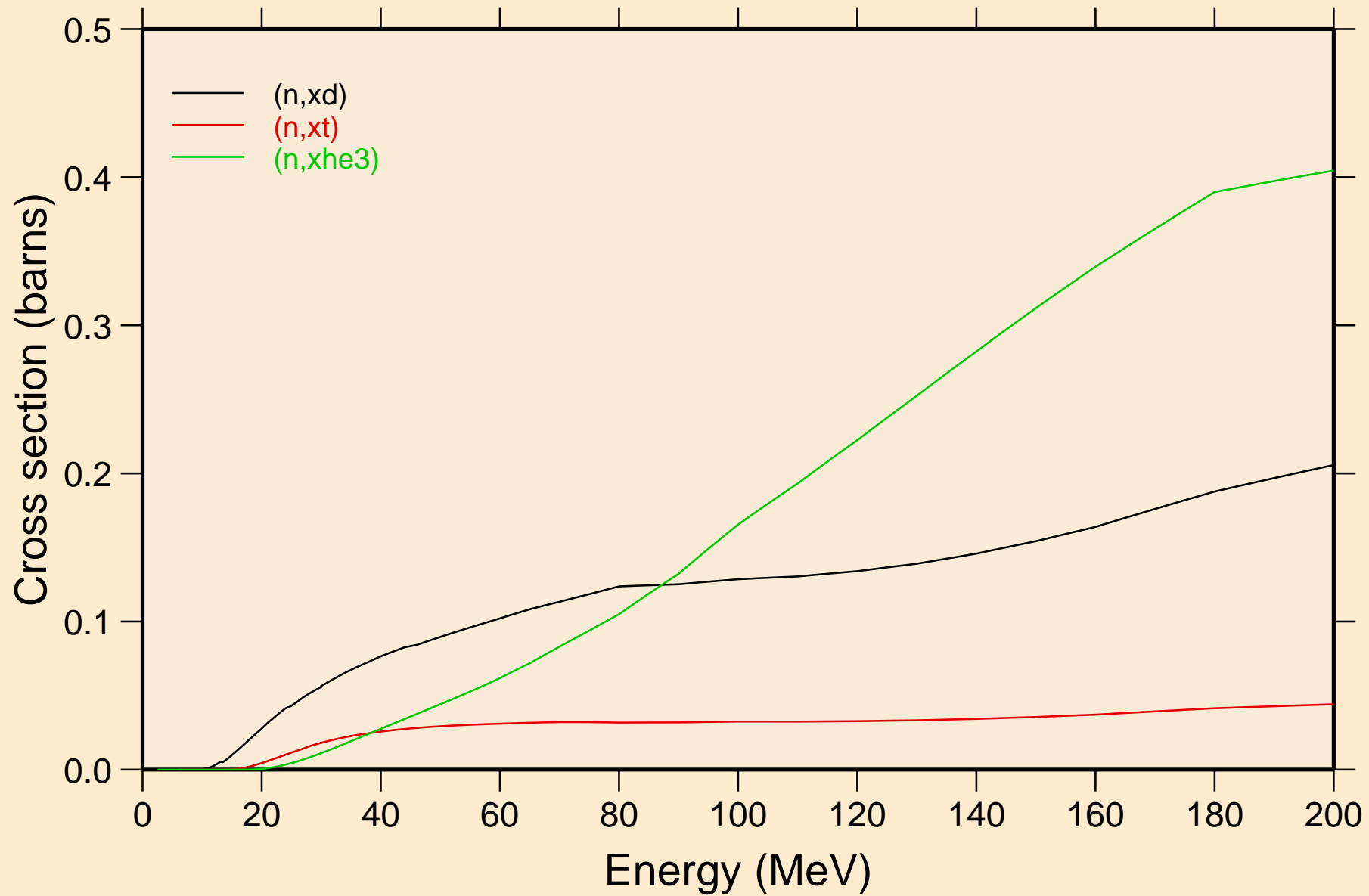


SN109 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Threshold reactions

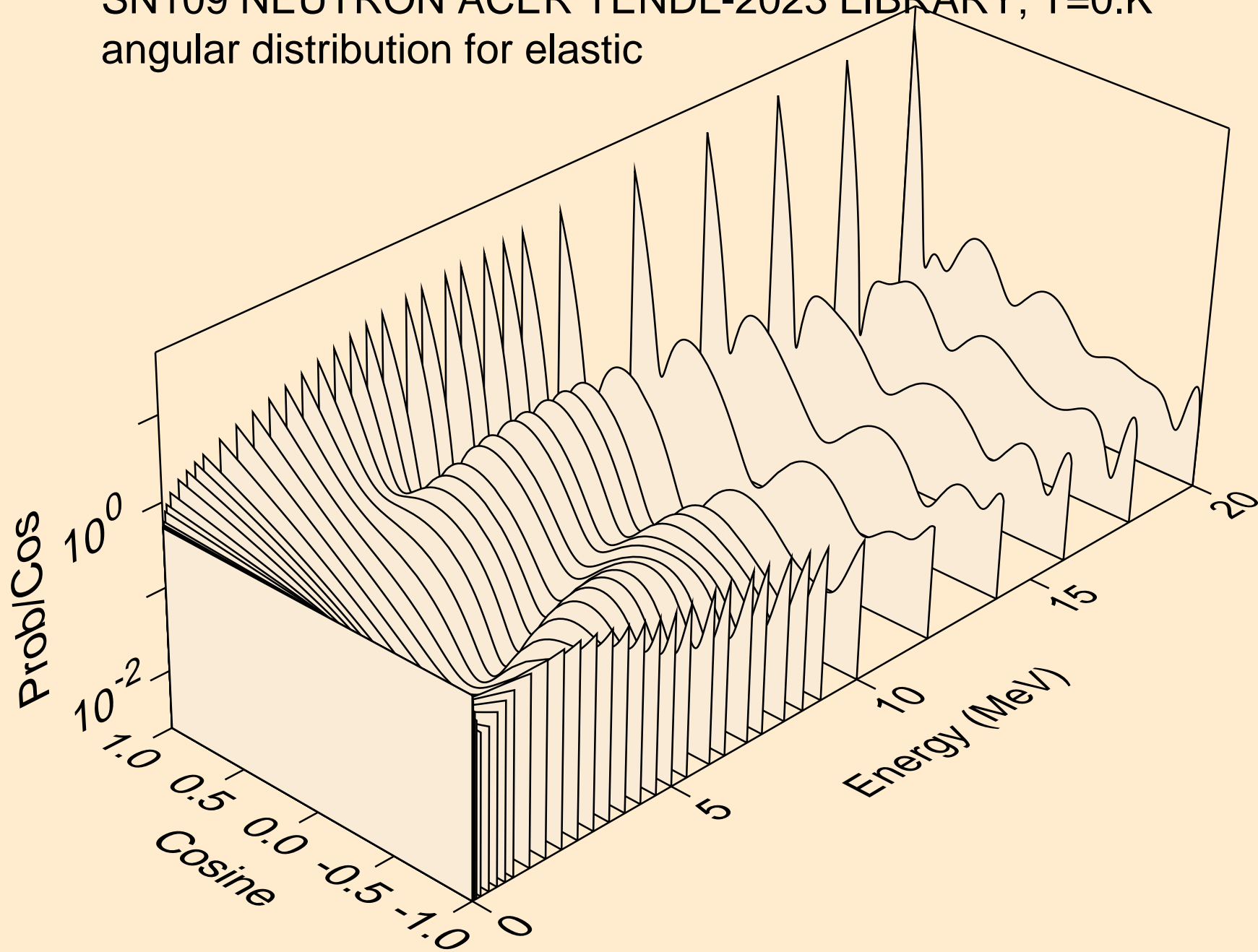


# SN109 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

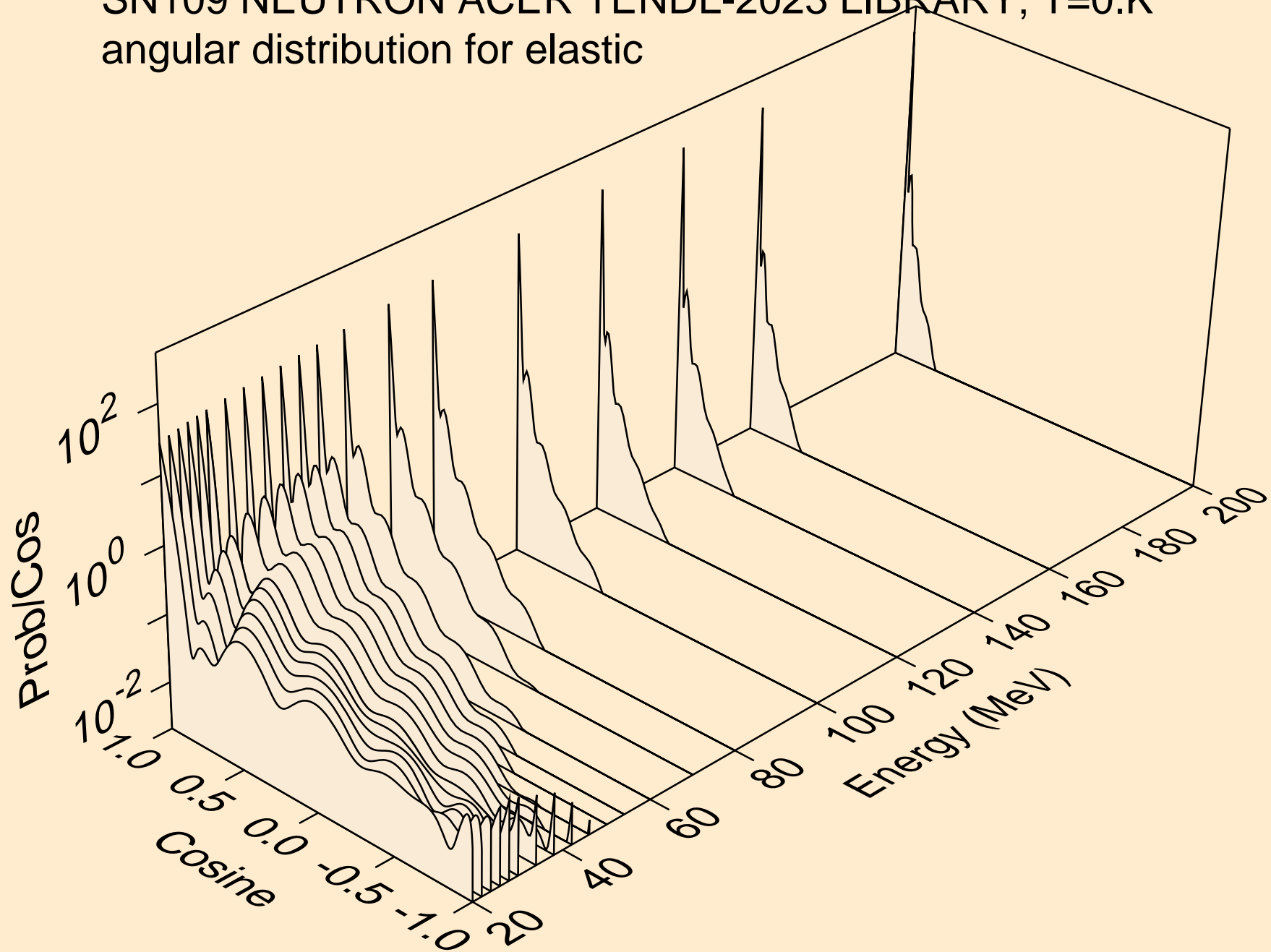
## Threshold reactions



SN109 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for elastic

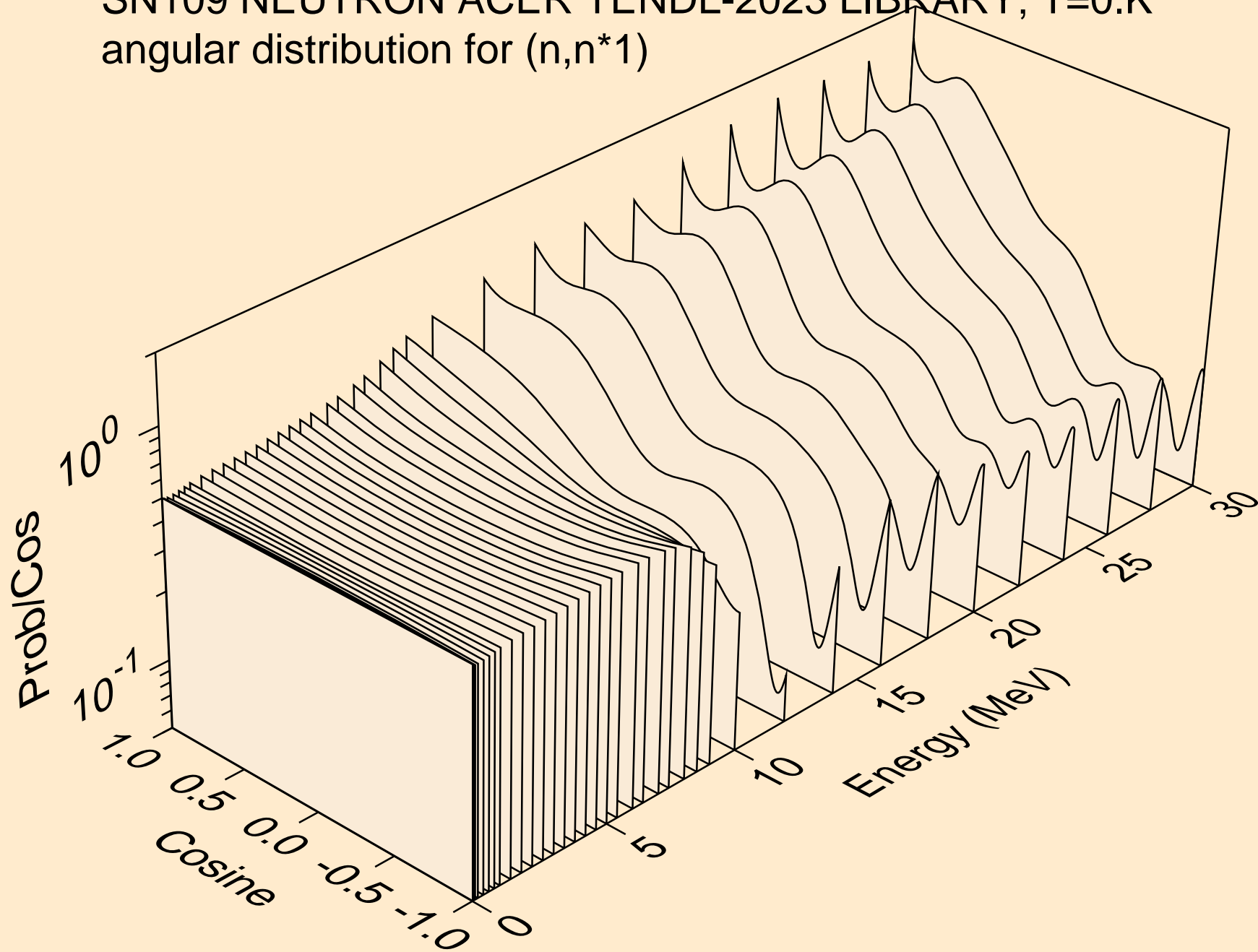


SN109 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for elastic

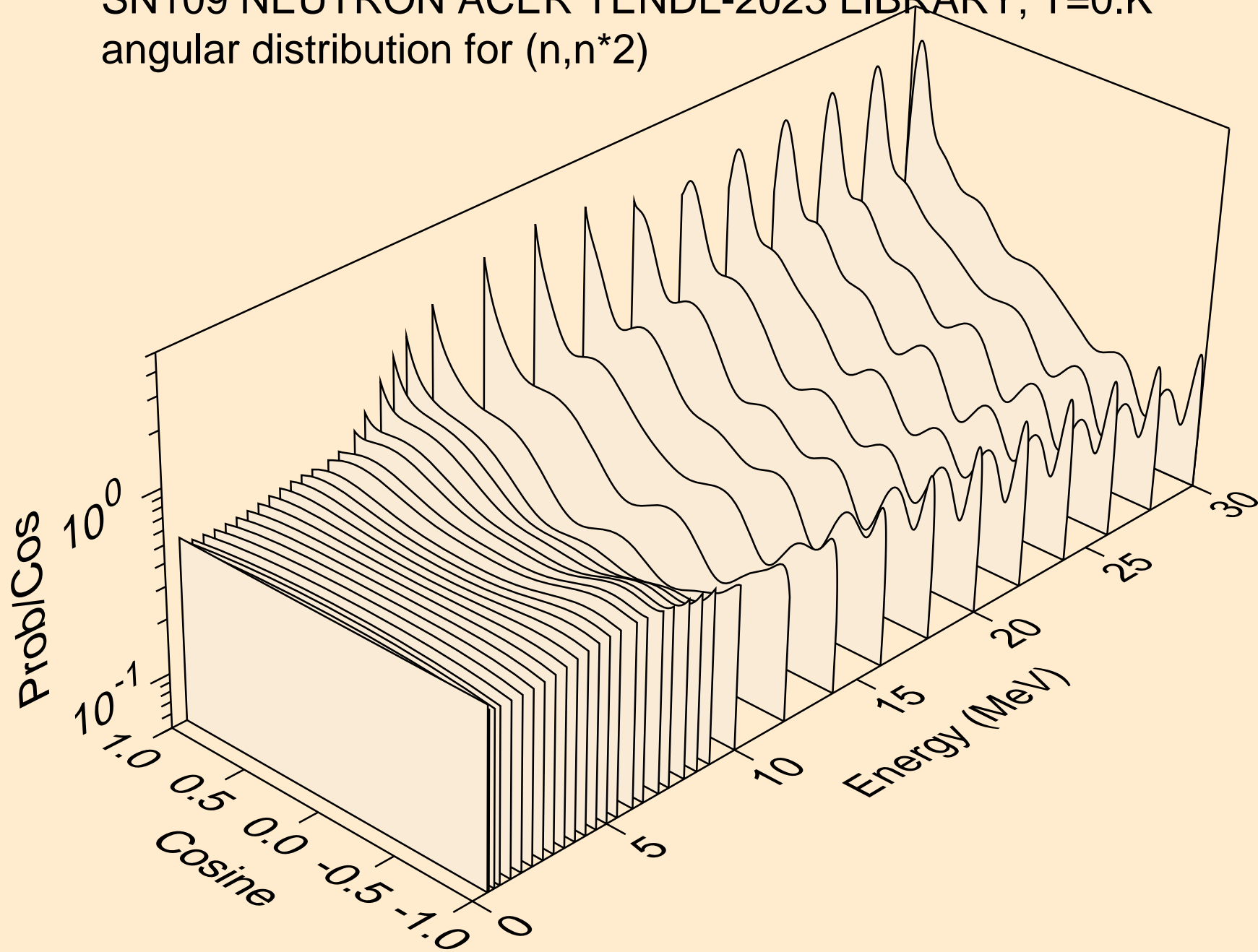




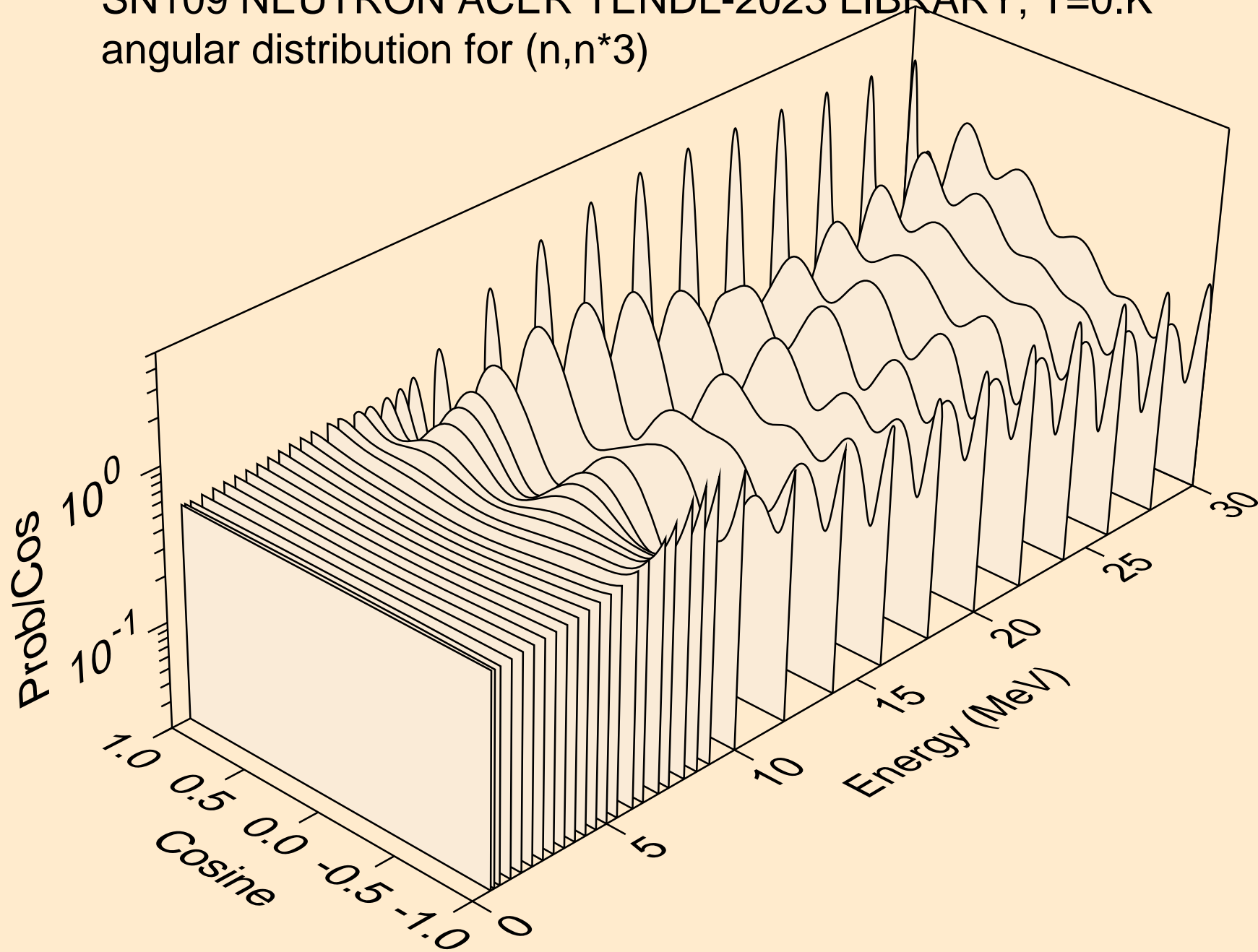
SN109 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*1)



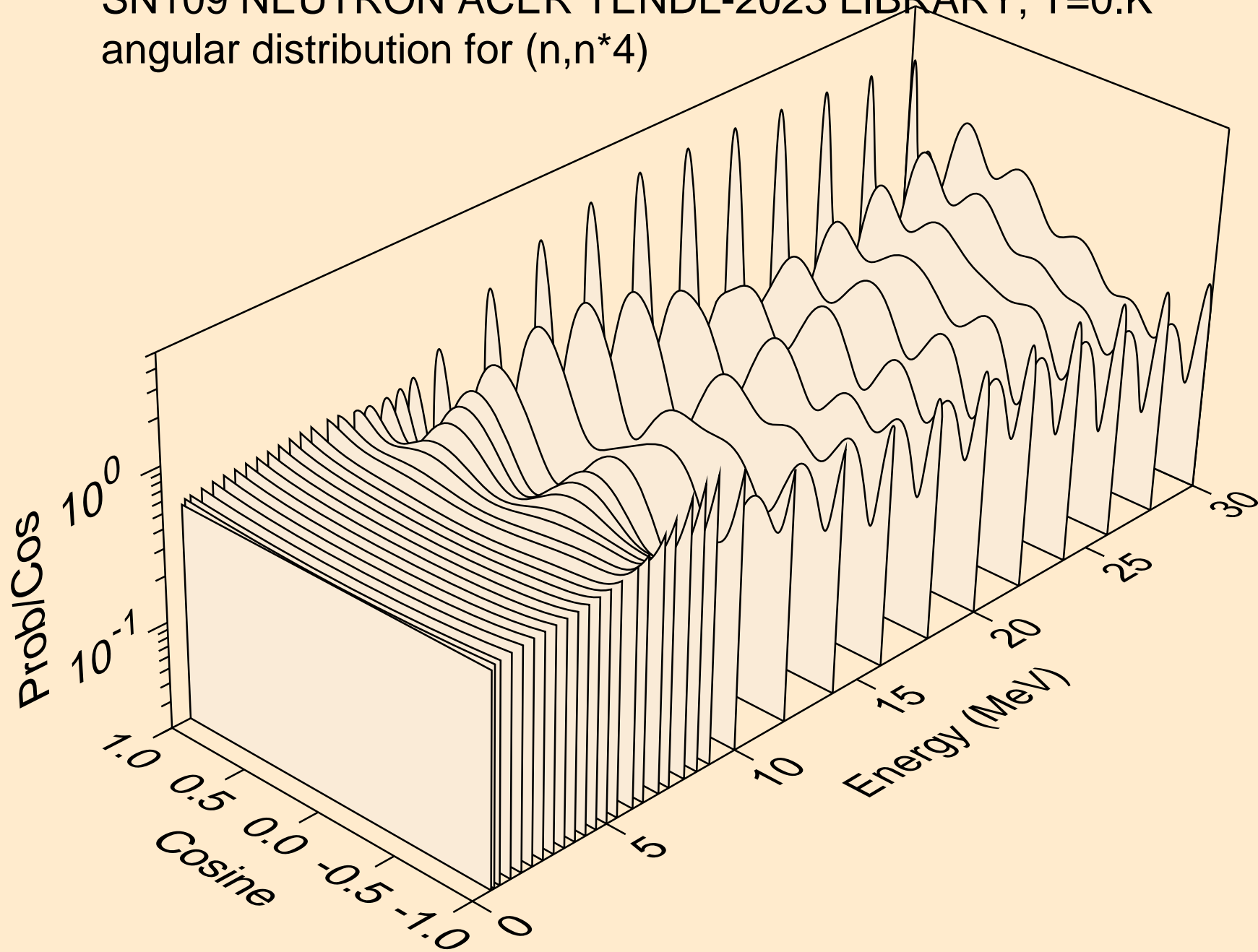
SN109 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*2)



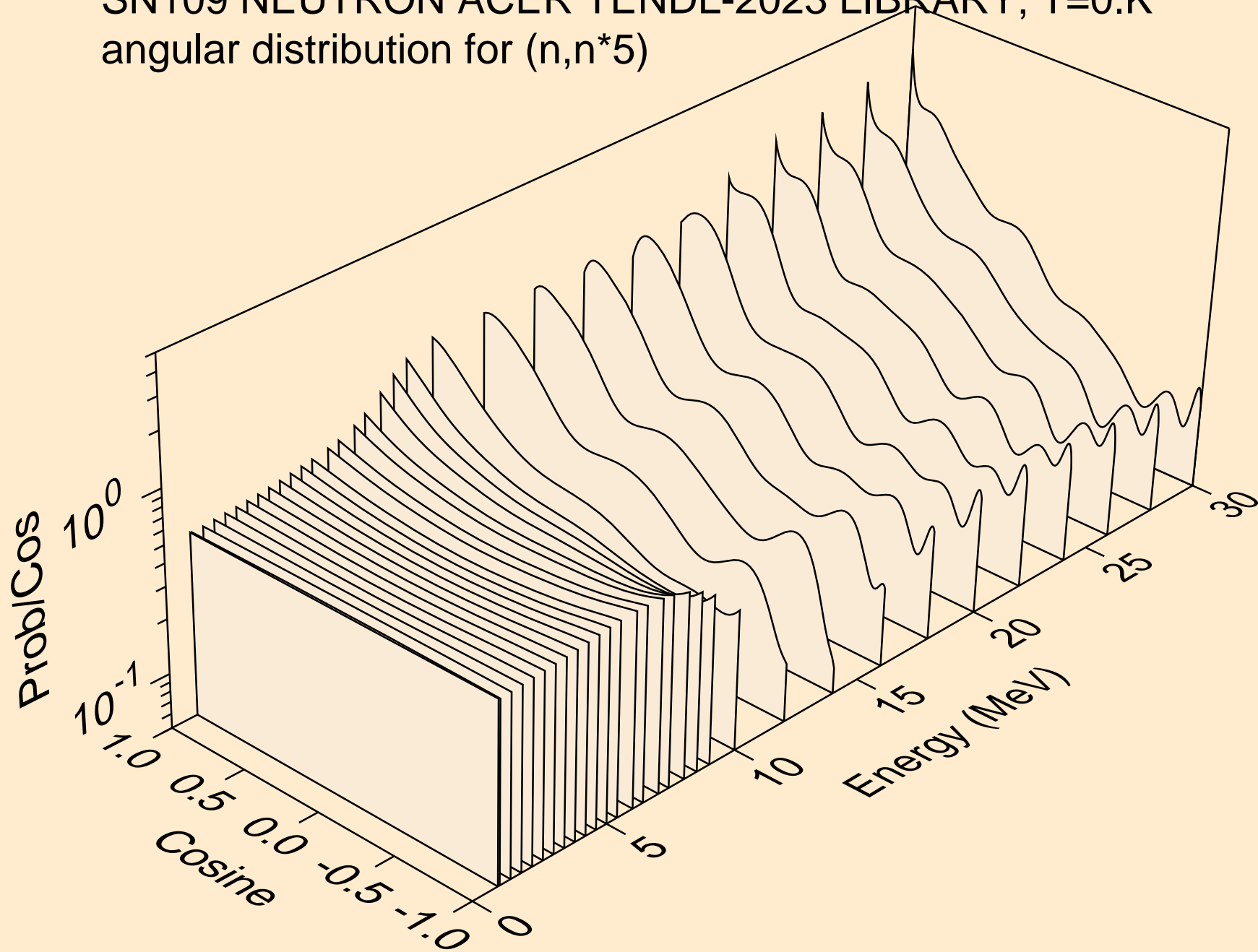
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angular distribution for (n,n\*3)



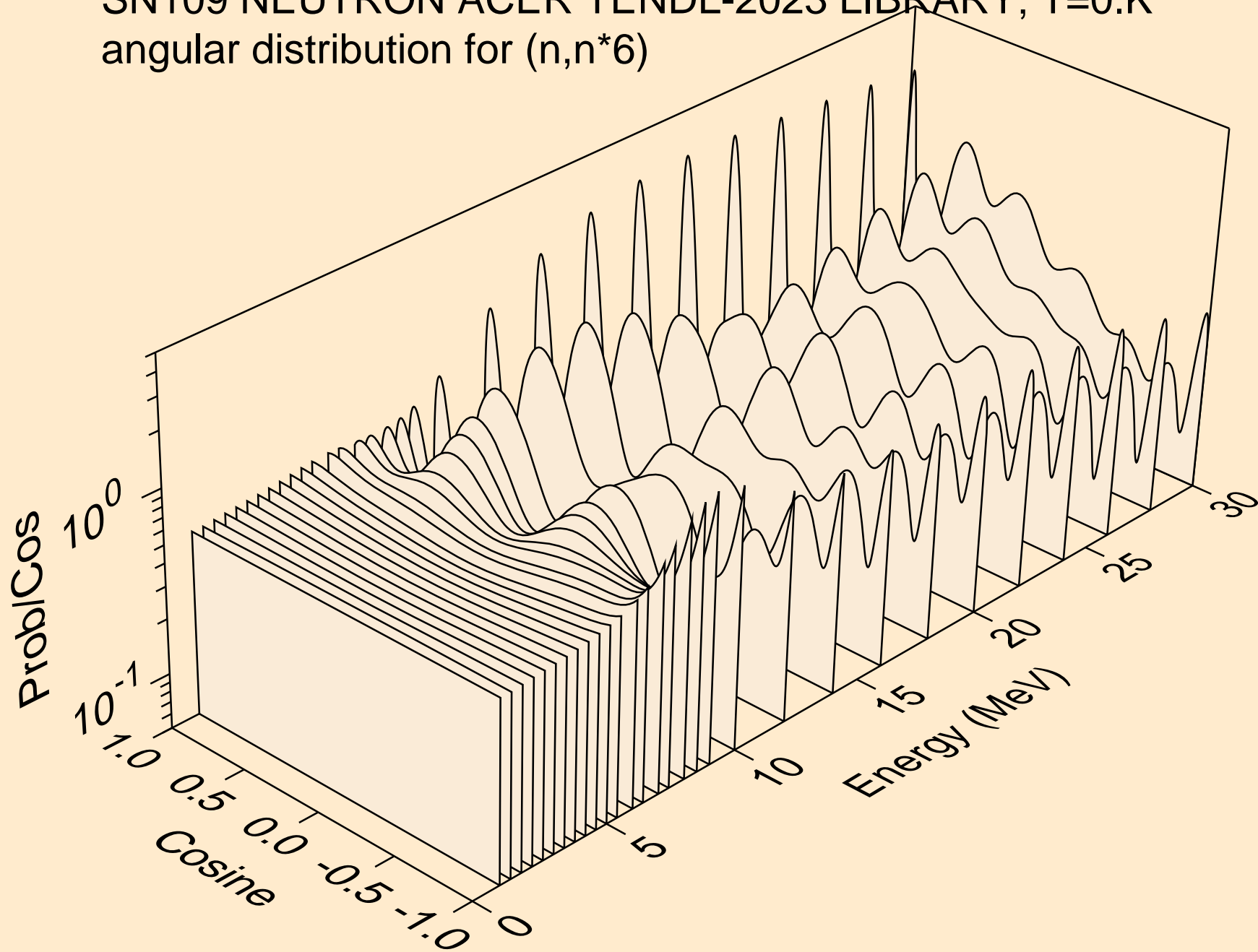
SN109 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*4)



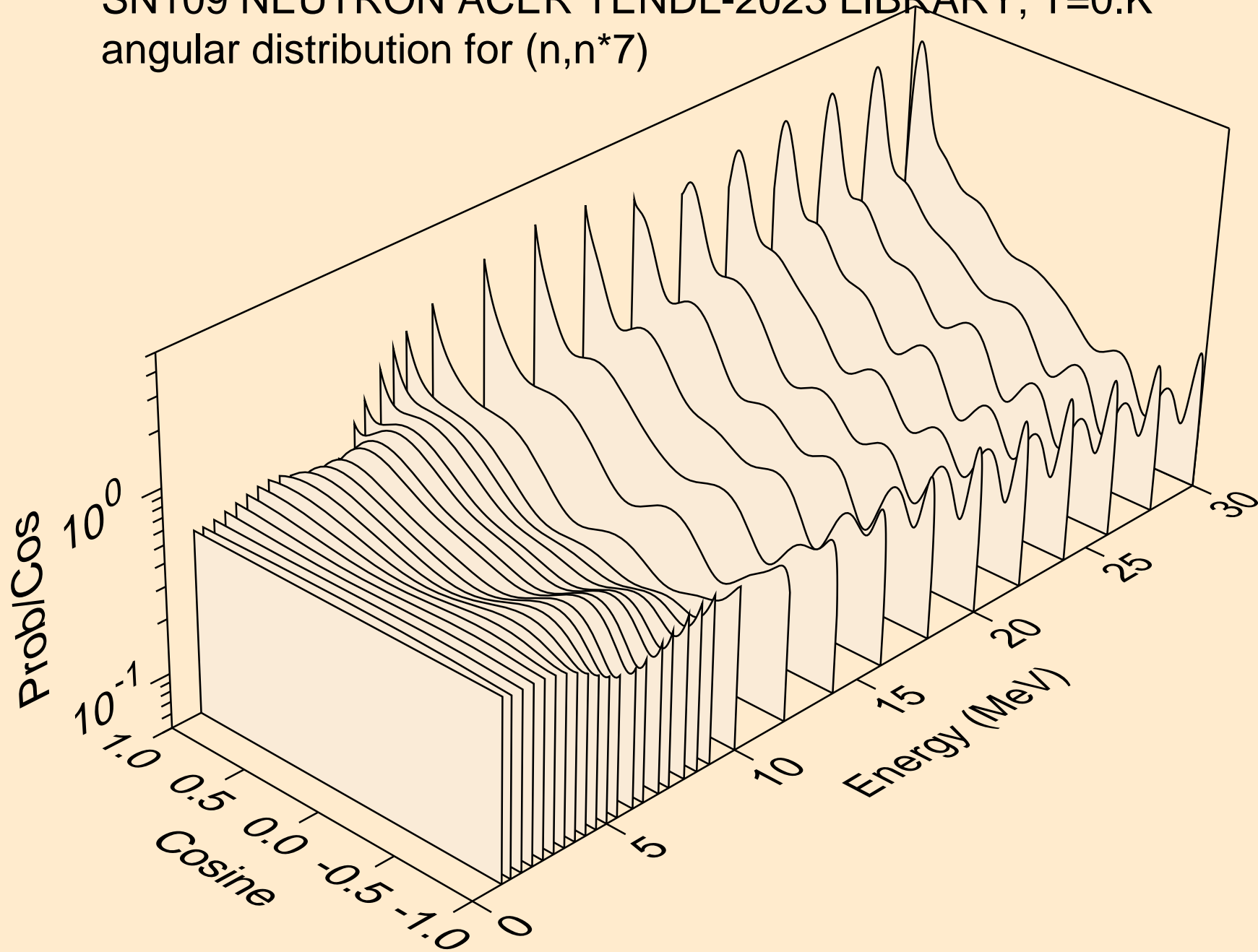
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angular distribution for (n,n\*5)



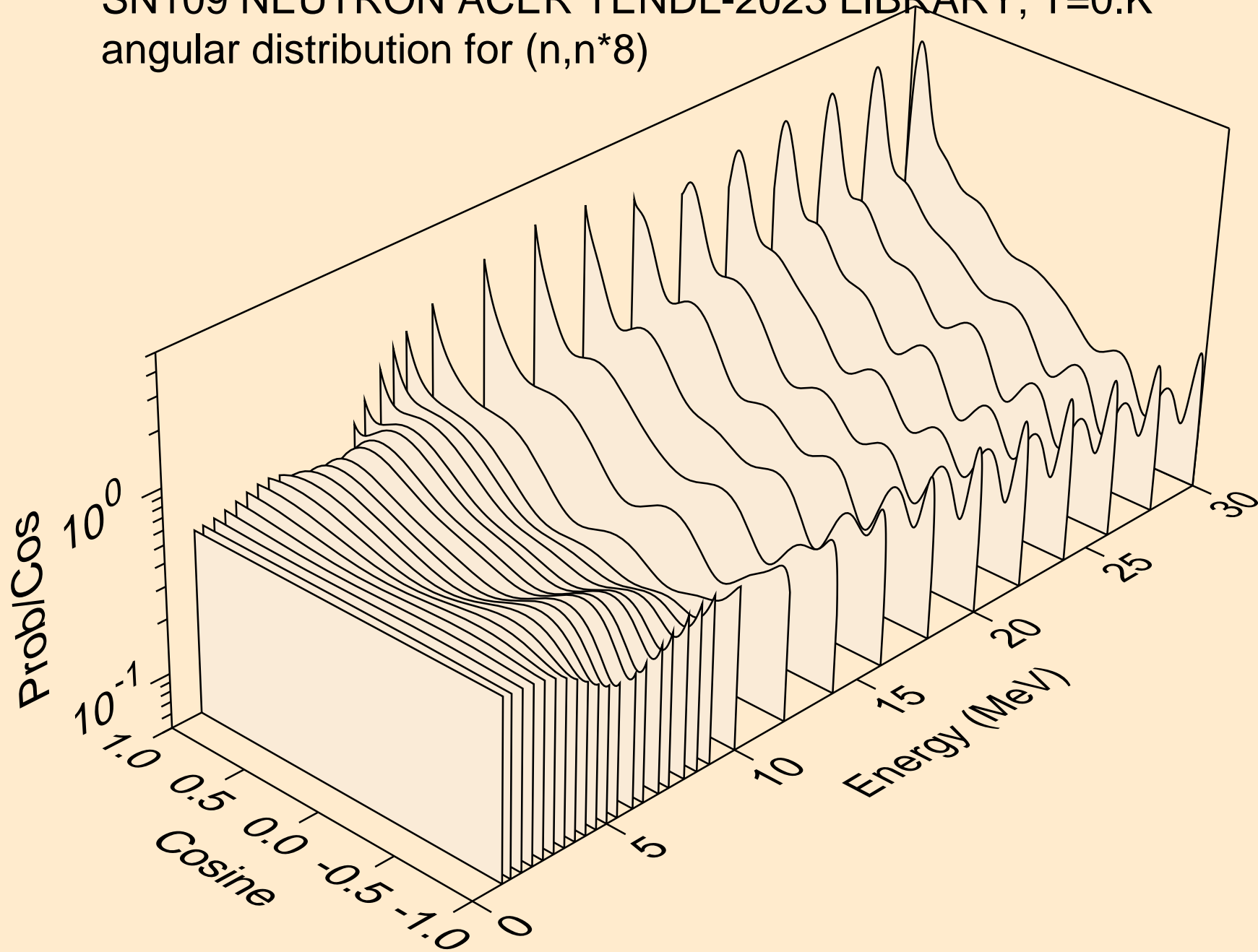
SN109 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*6)



SN109 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*7)

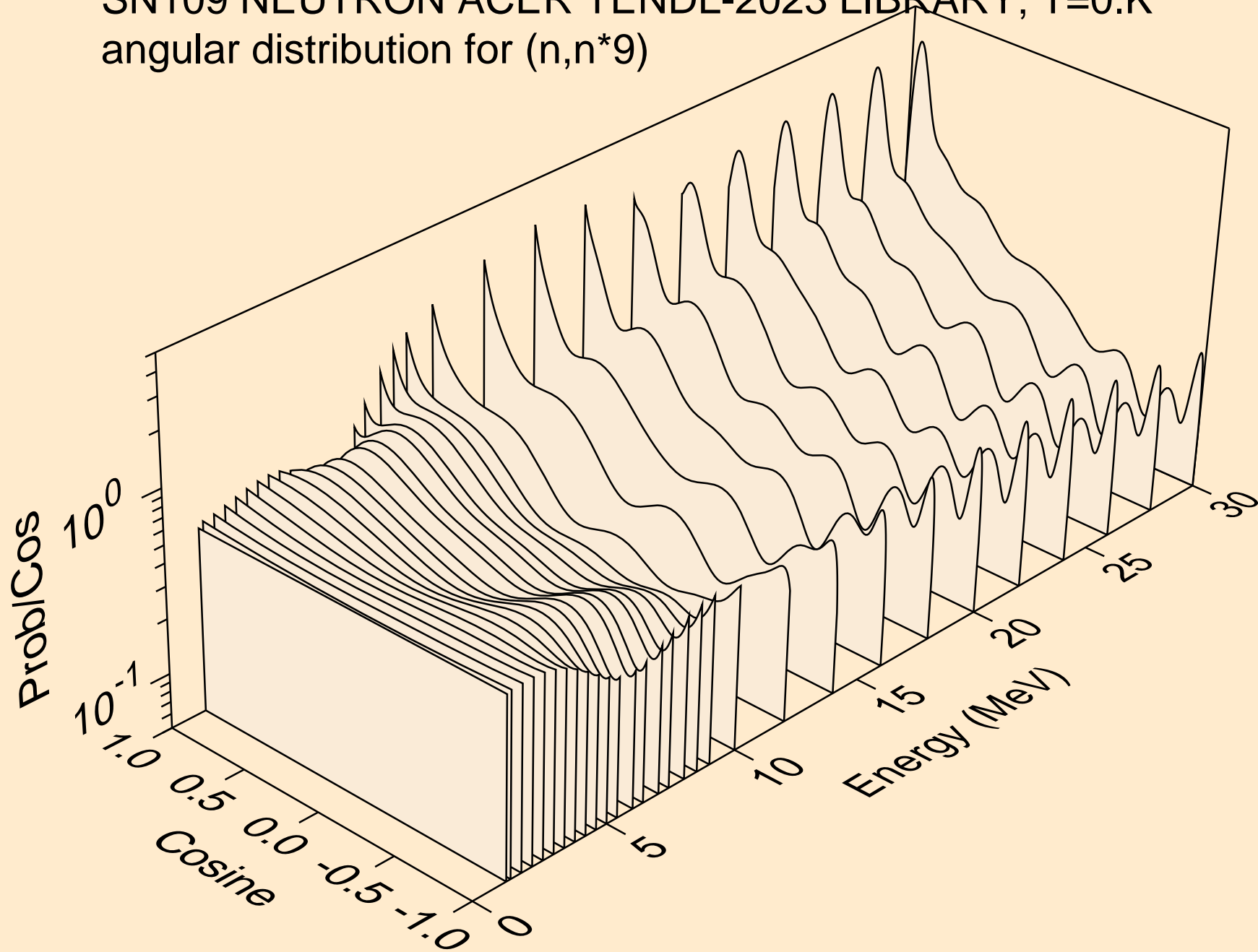


SN109 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*8)

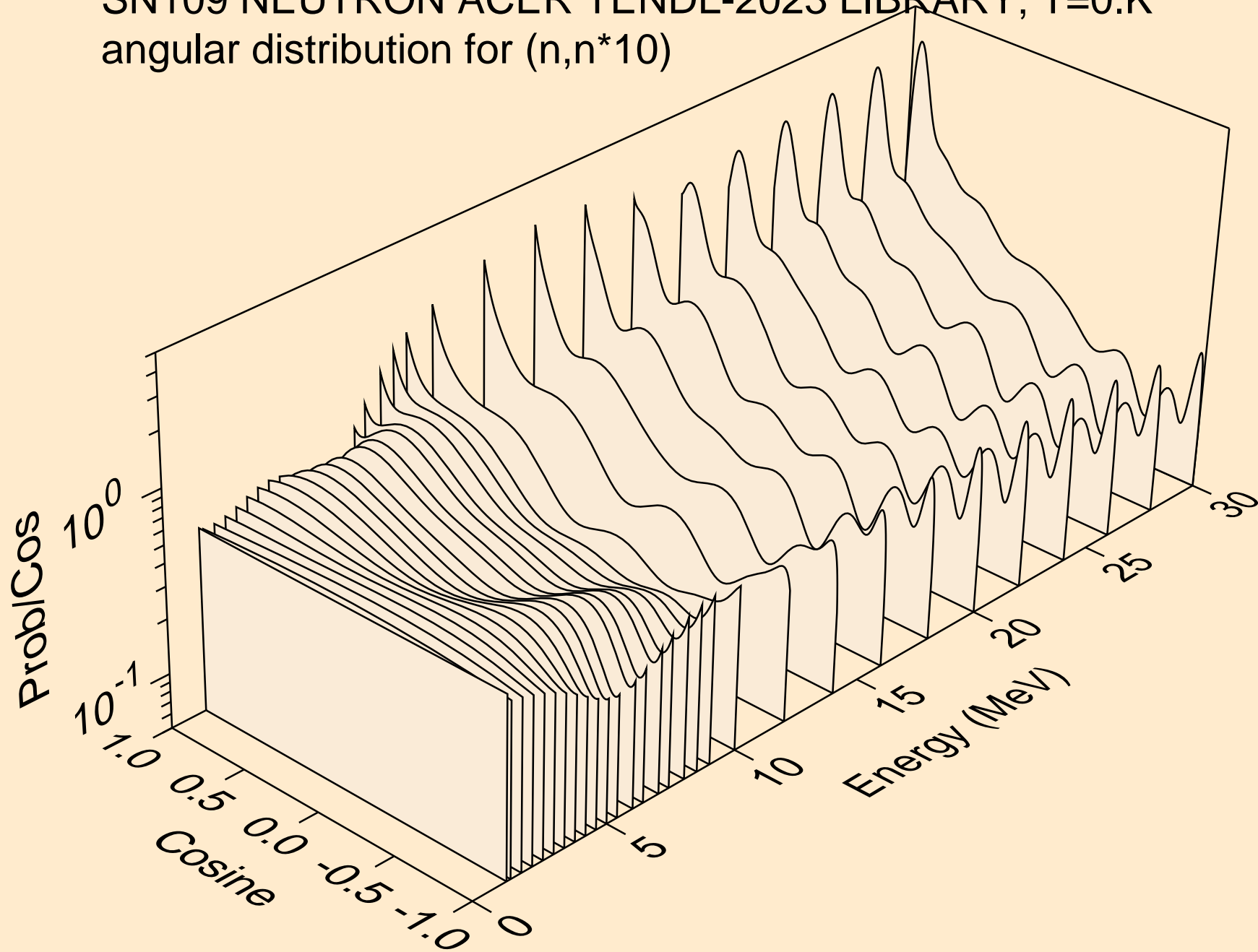




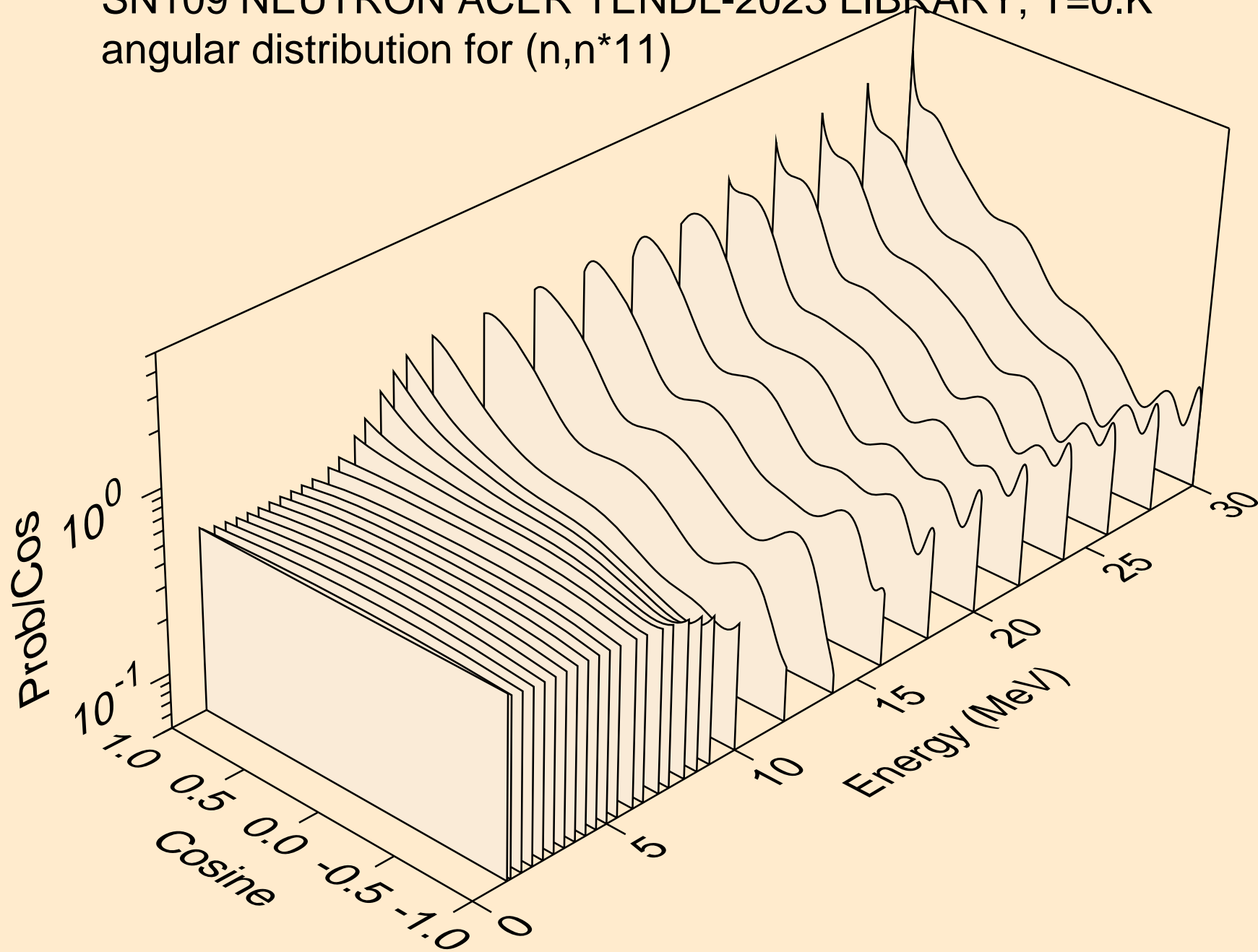
SN109 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*9)



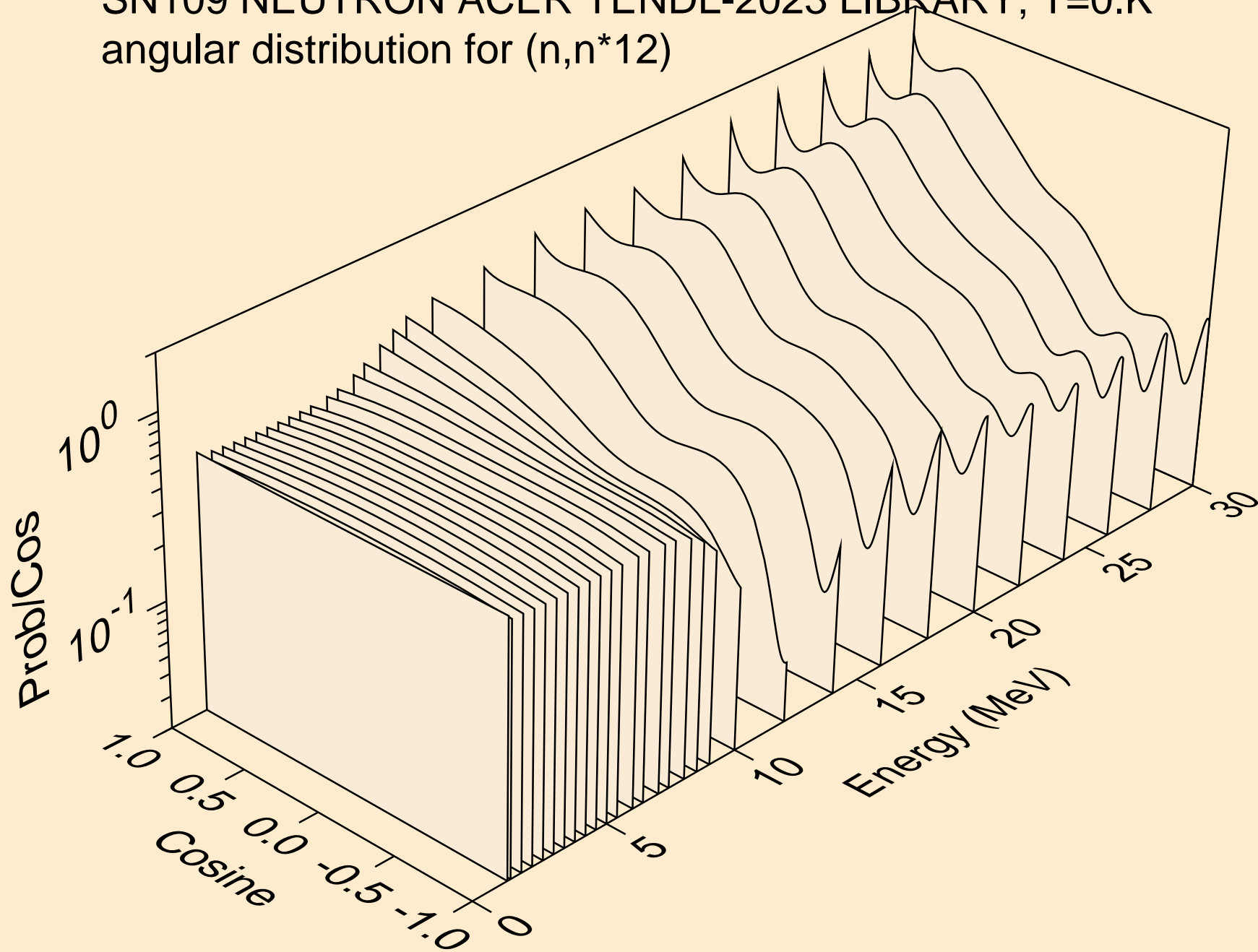
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angular distribution for (n,n\*10)



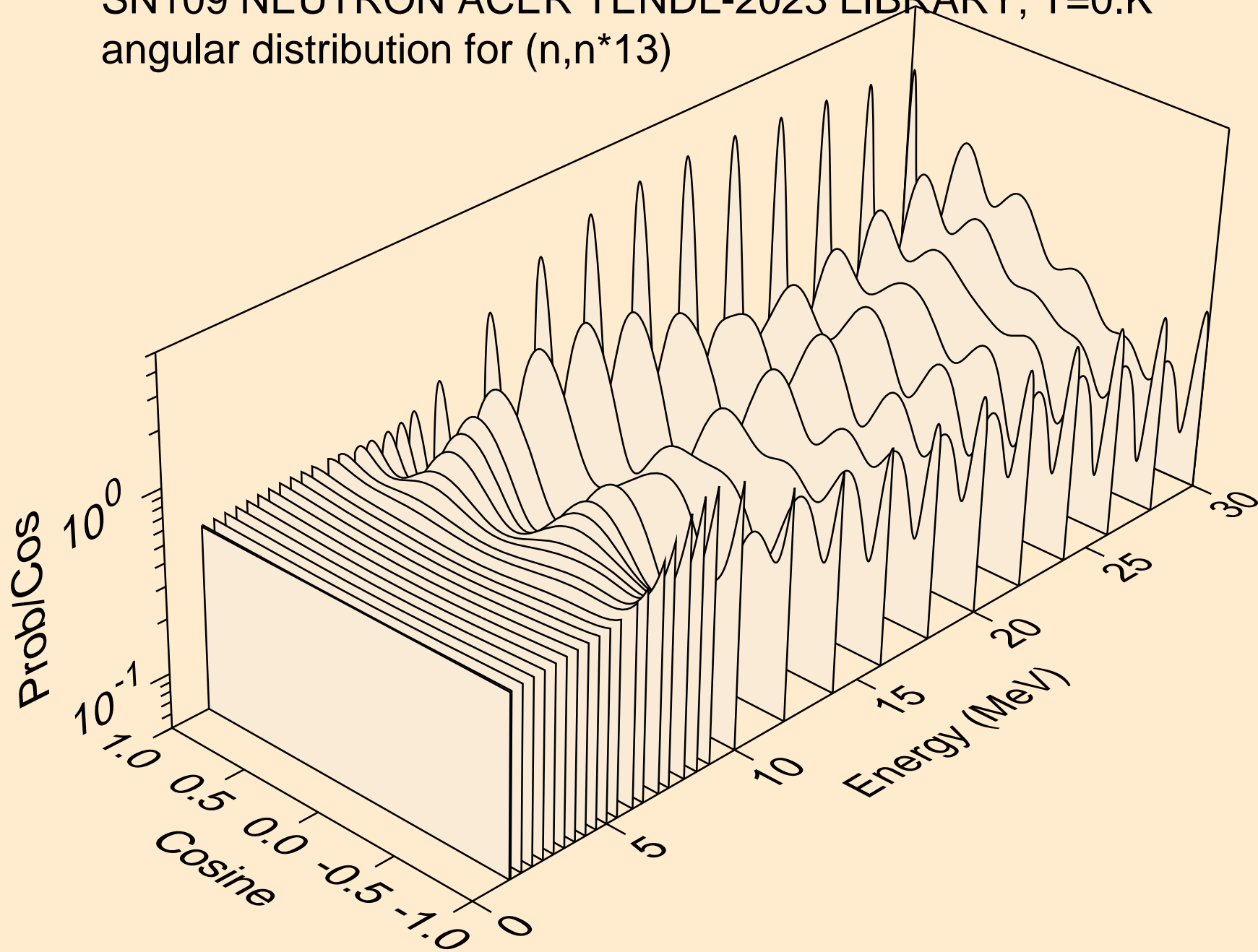
SN109 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*11)



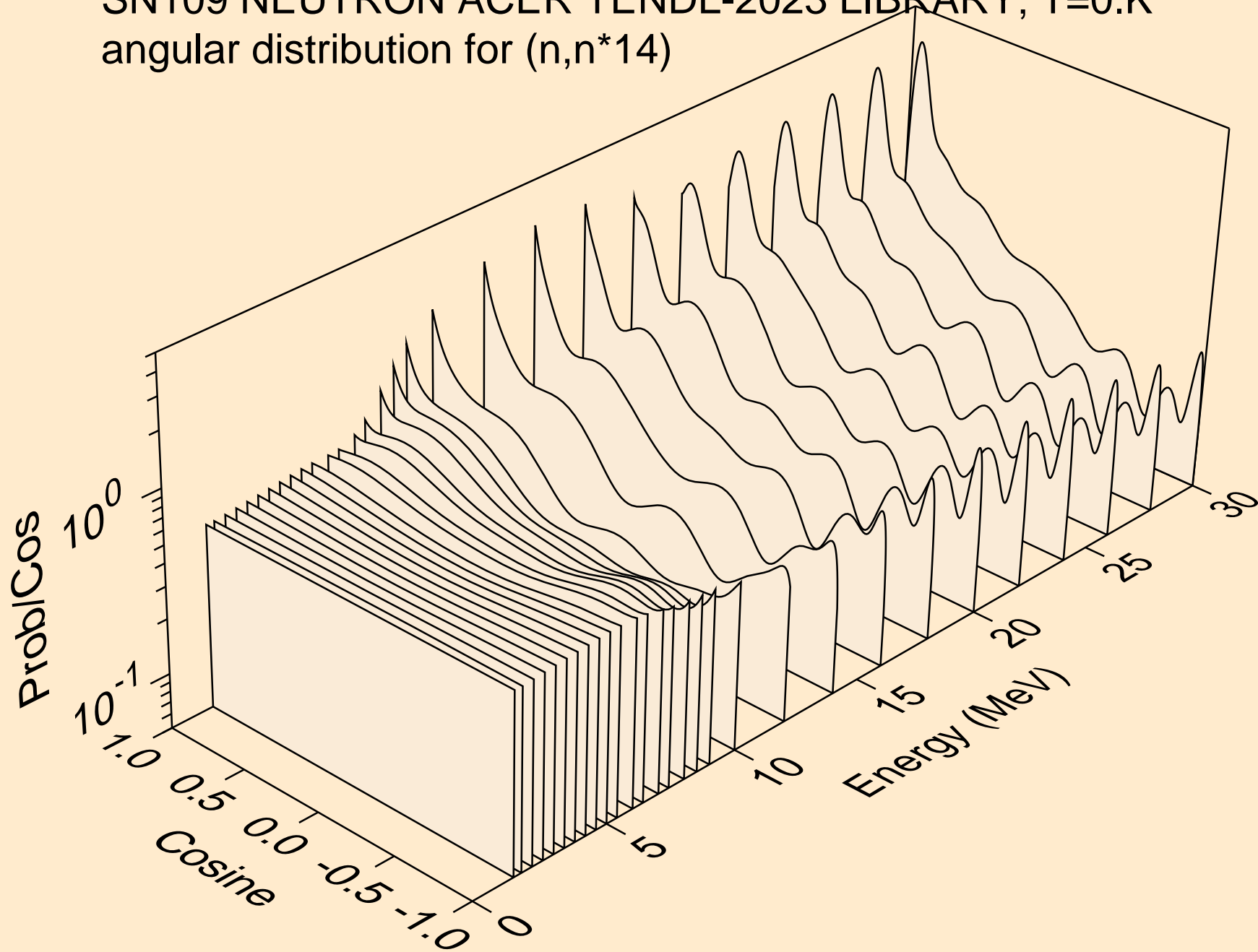
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angular distribution for (n,n\*12)



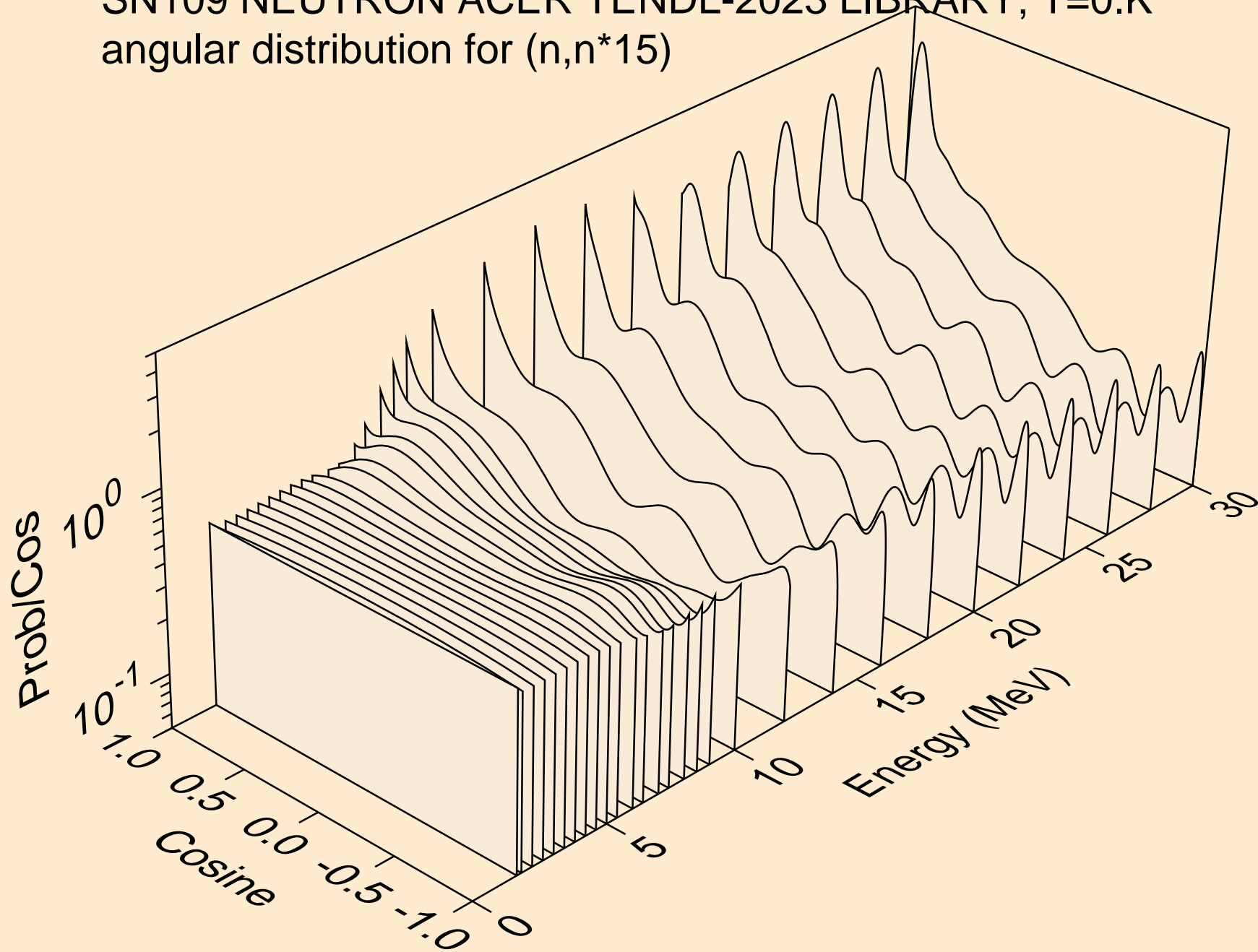
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angular distribution for (n,n\*13)



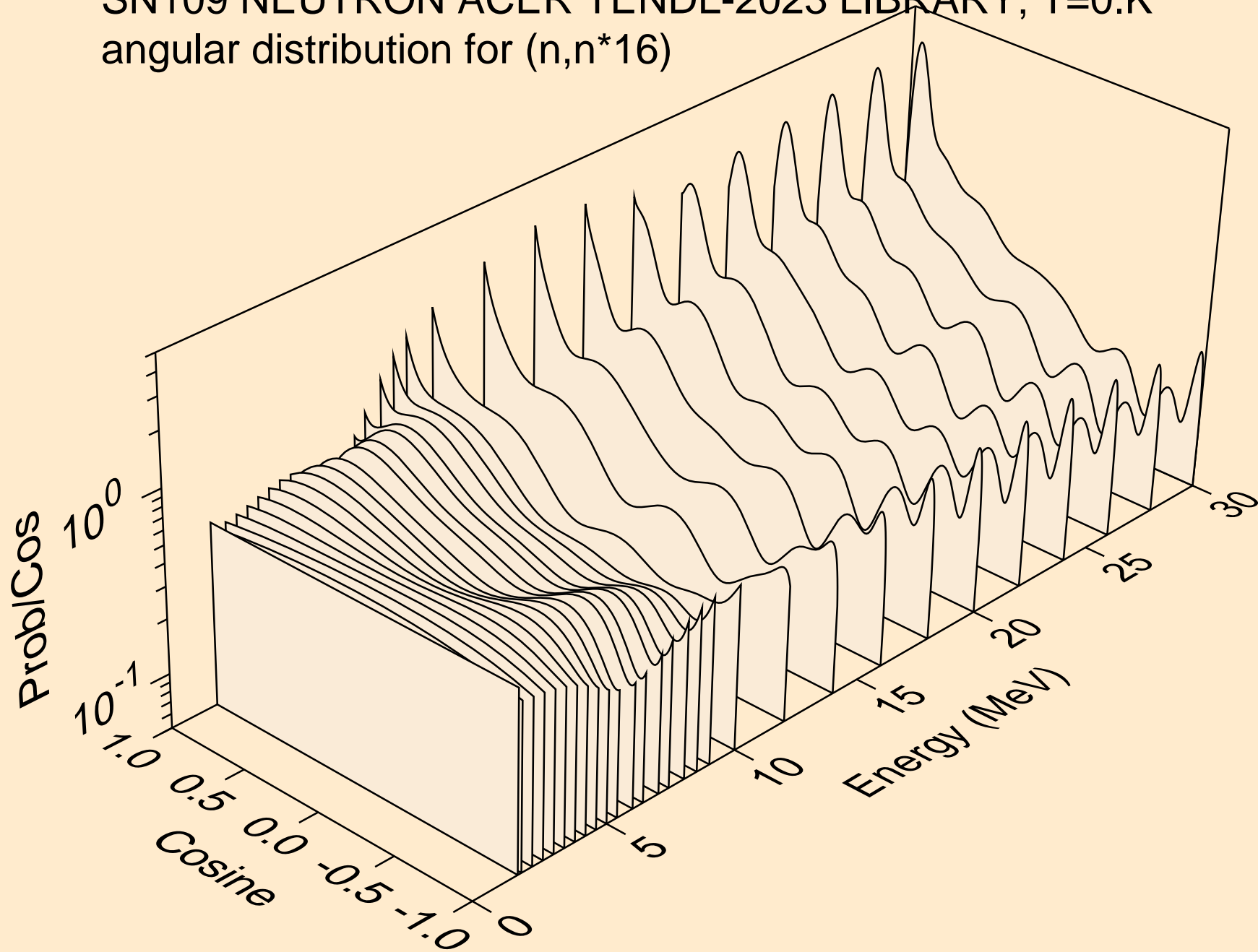
SN109 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*14)



SN109 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*15)

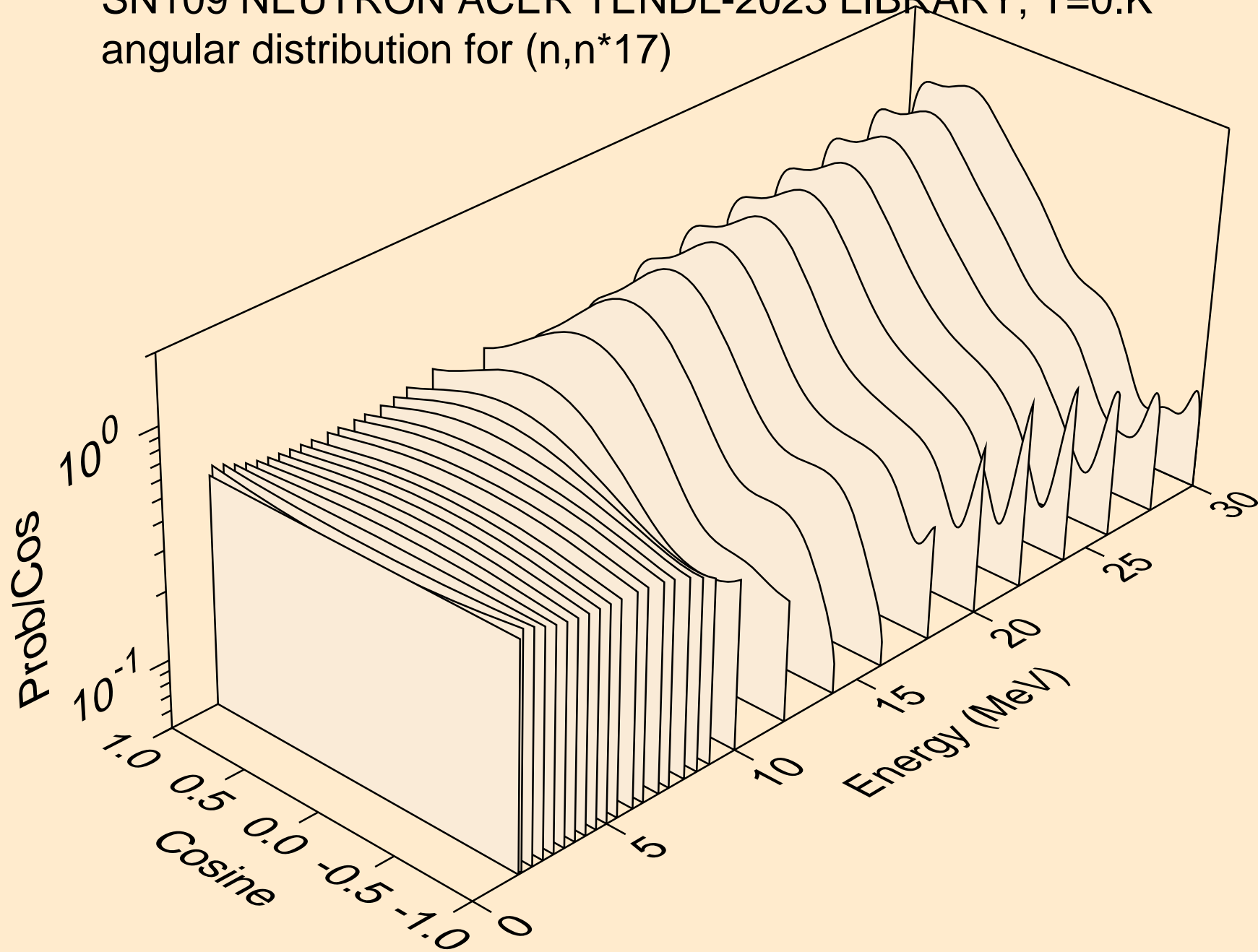


SN109 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*16)

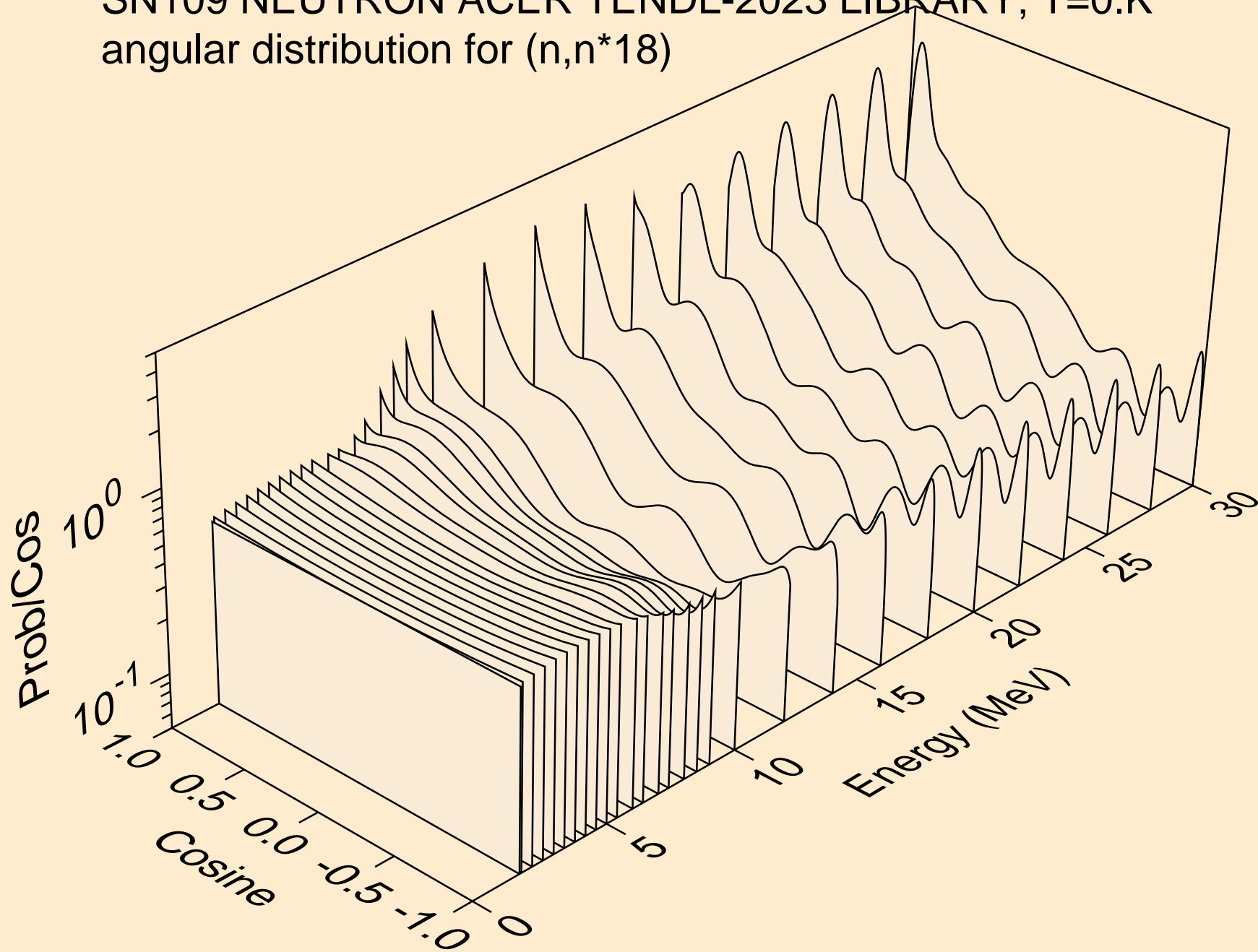




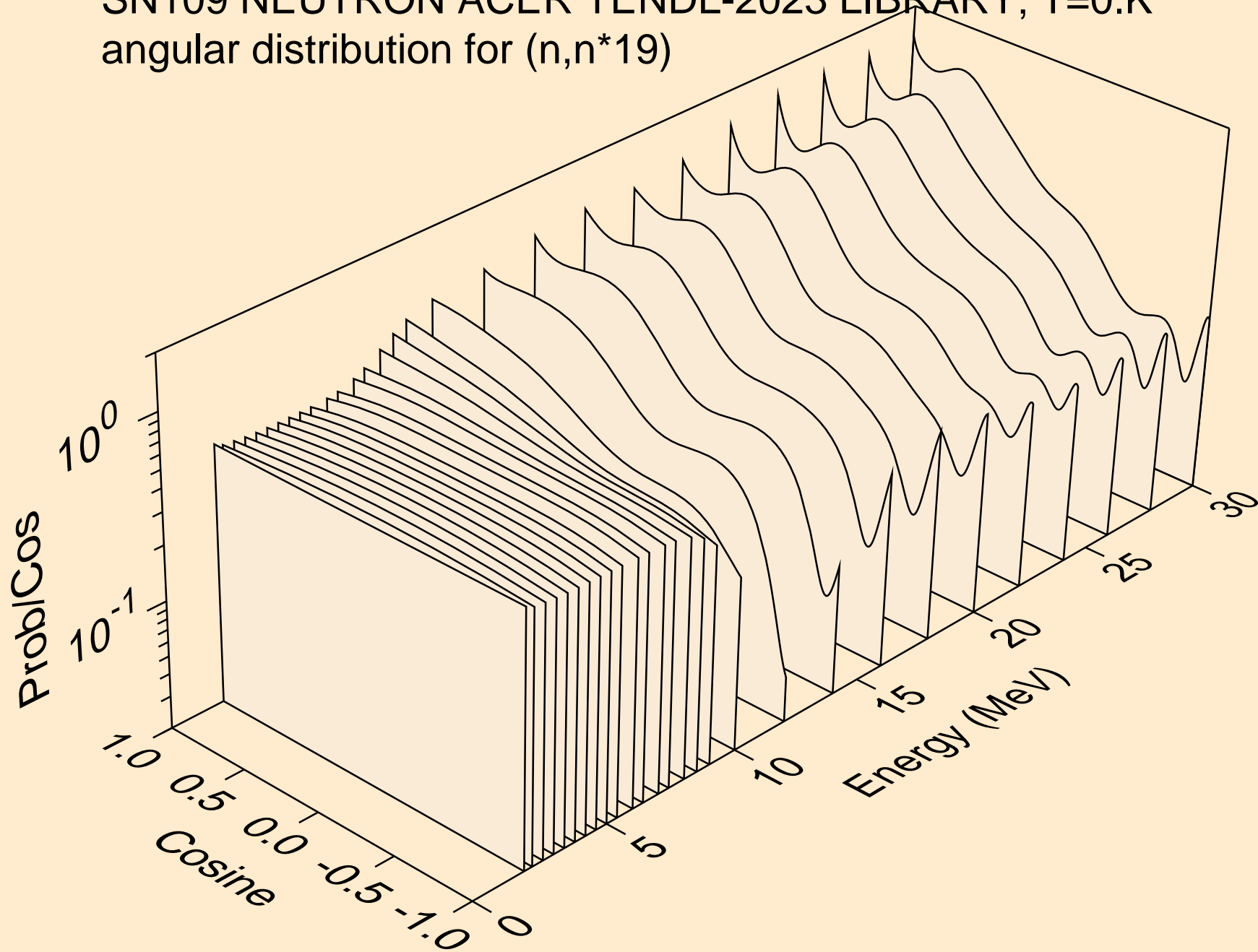
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angular distribution for (n,n\*17)



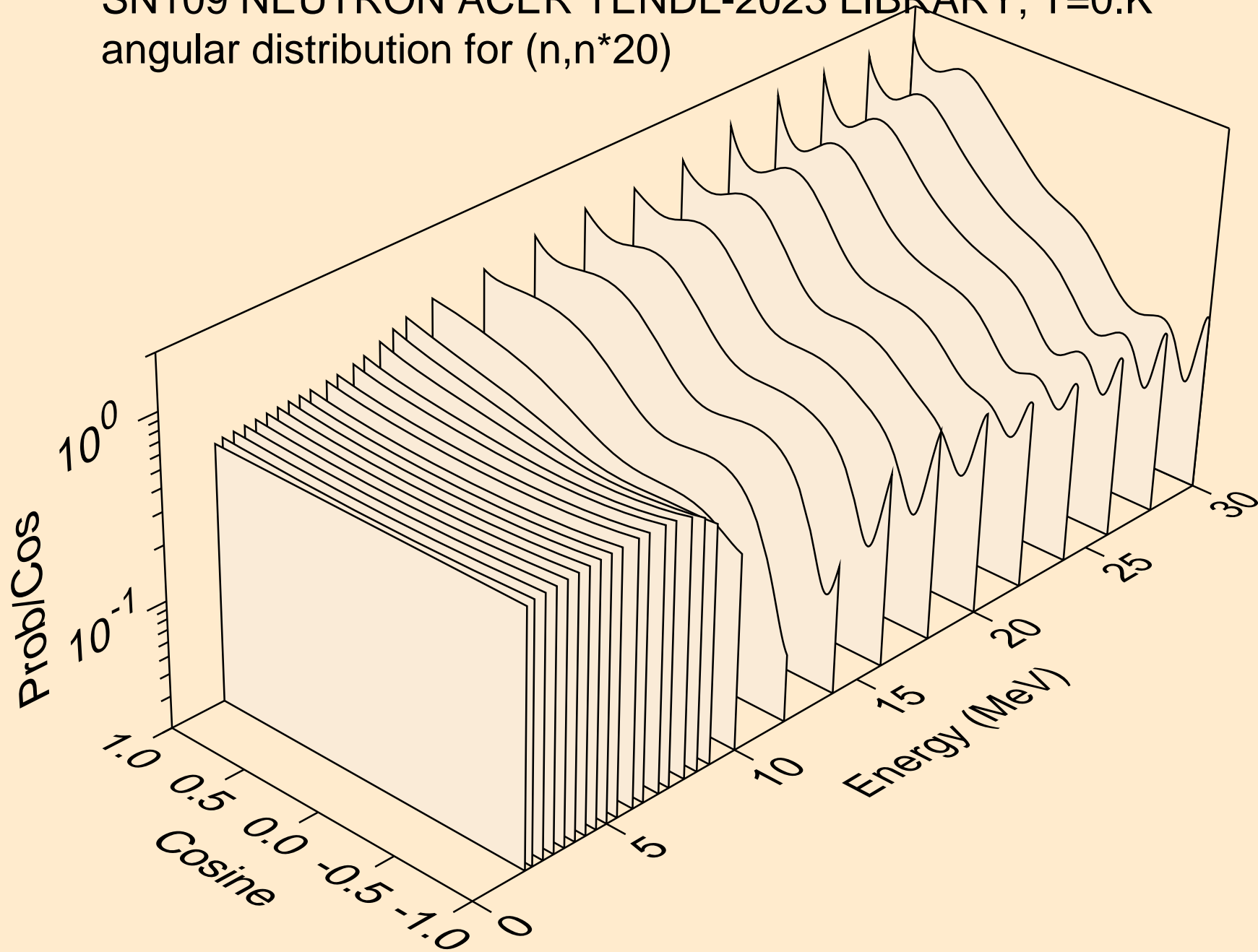
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angular distribution for (n,n\*18)



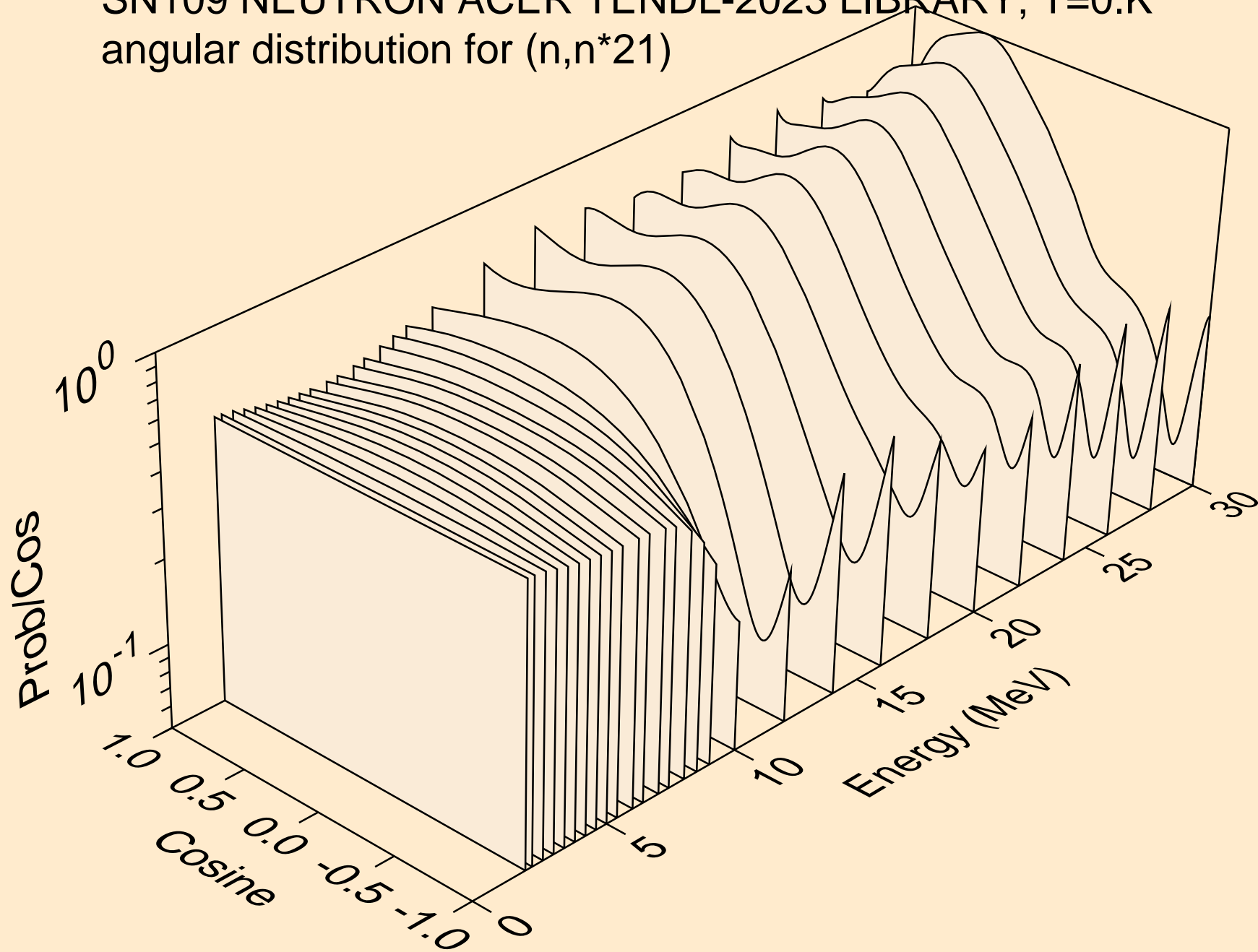
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angular distribution for (n,n\*19)



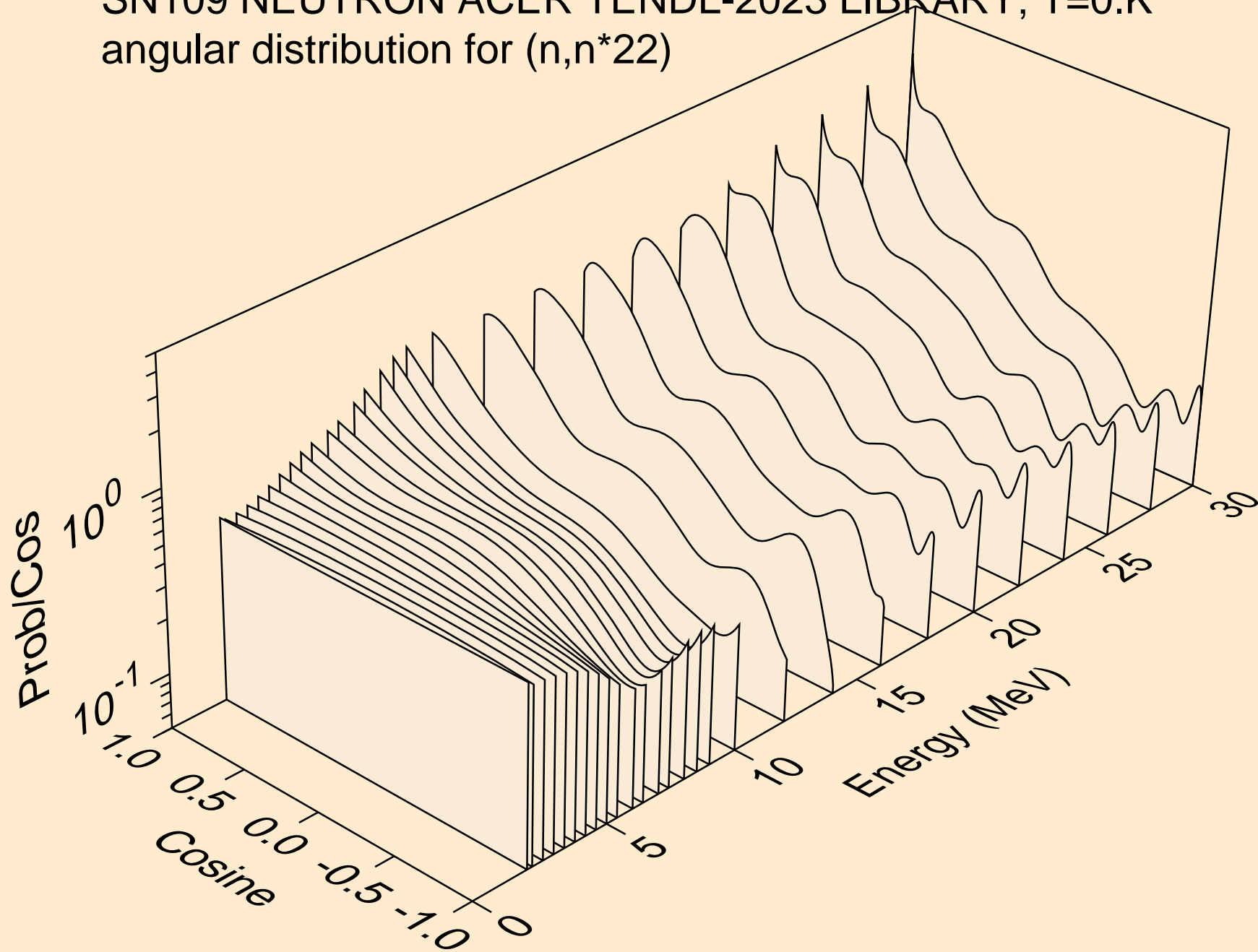
SN109 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*20)



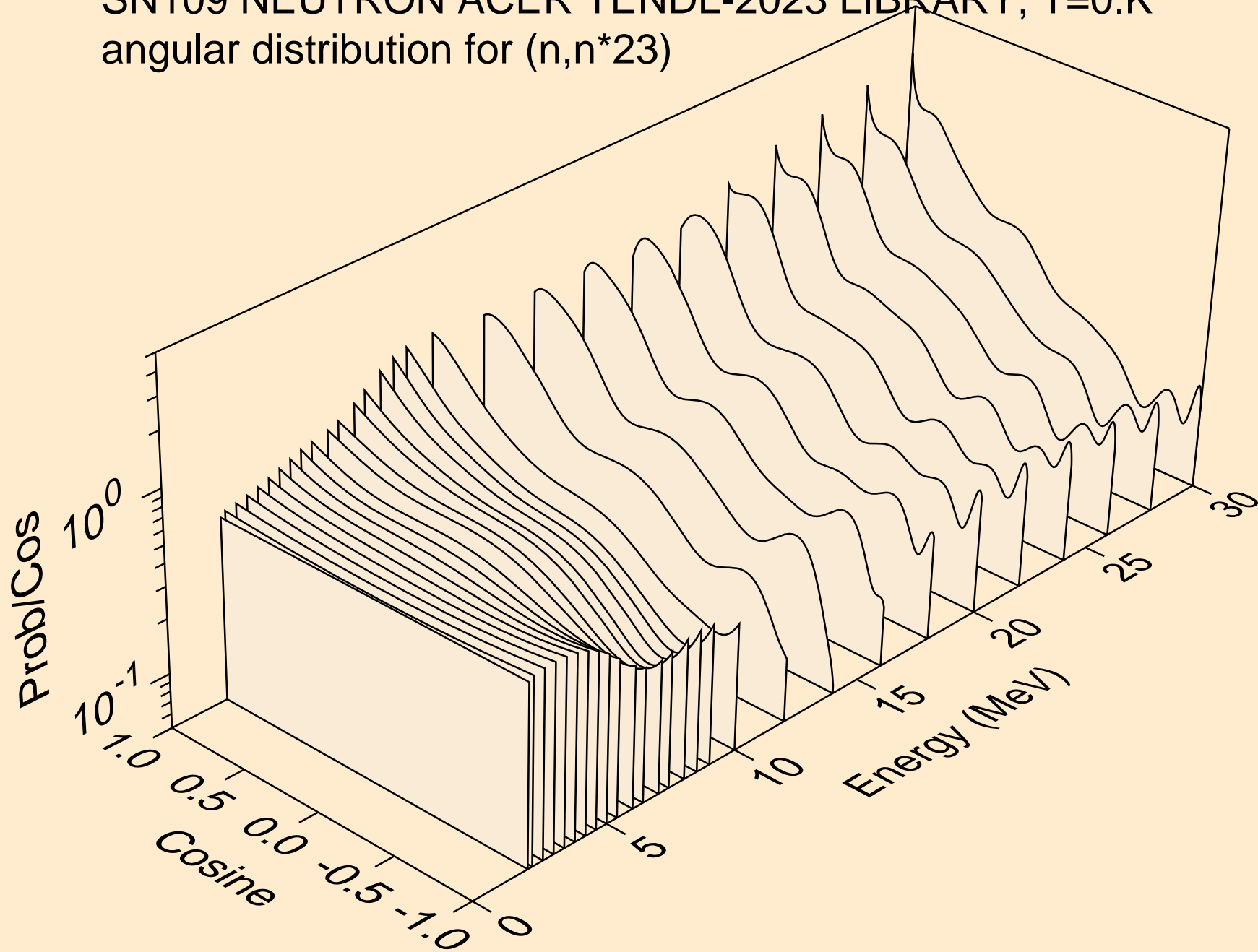
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angular distribution for (n,n\*21)



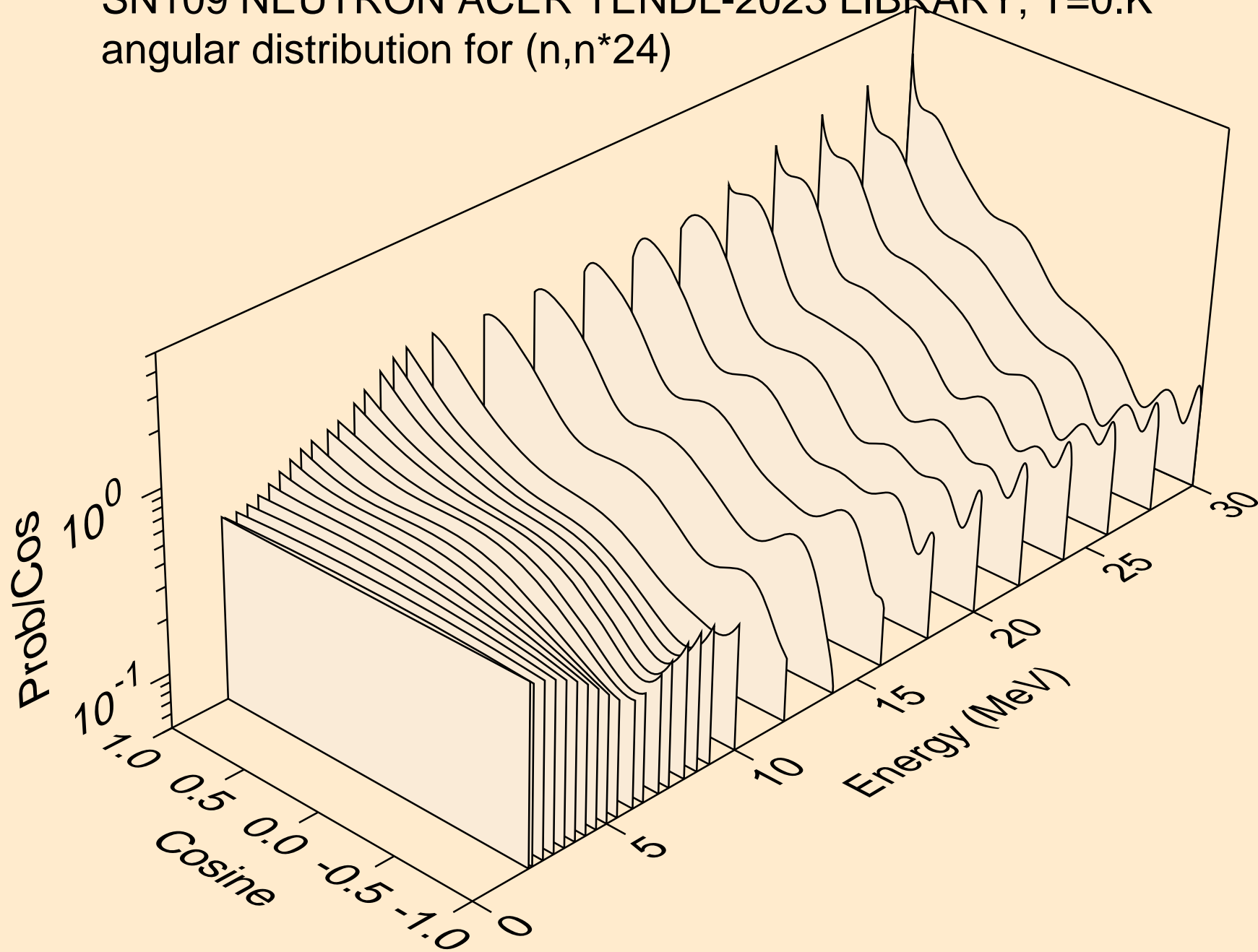
SN109 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*22)



SN109 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*23)

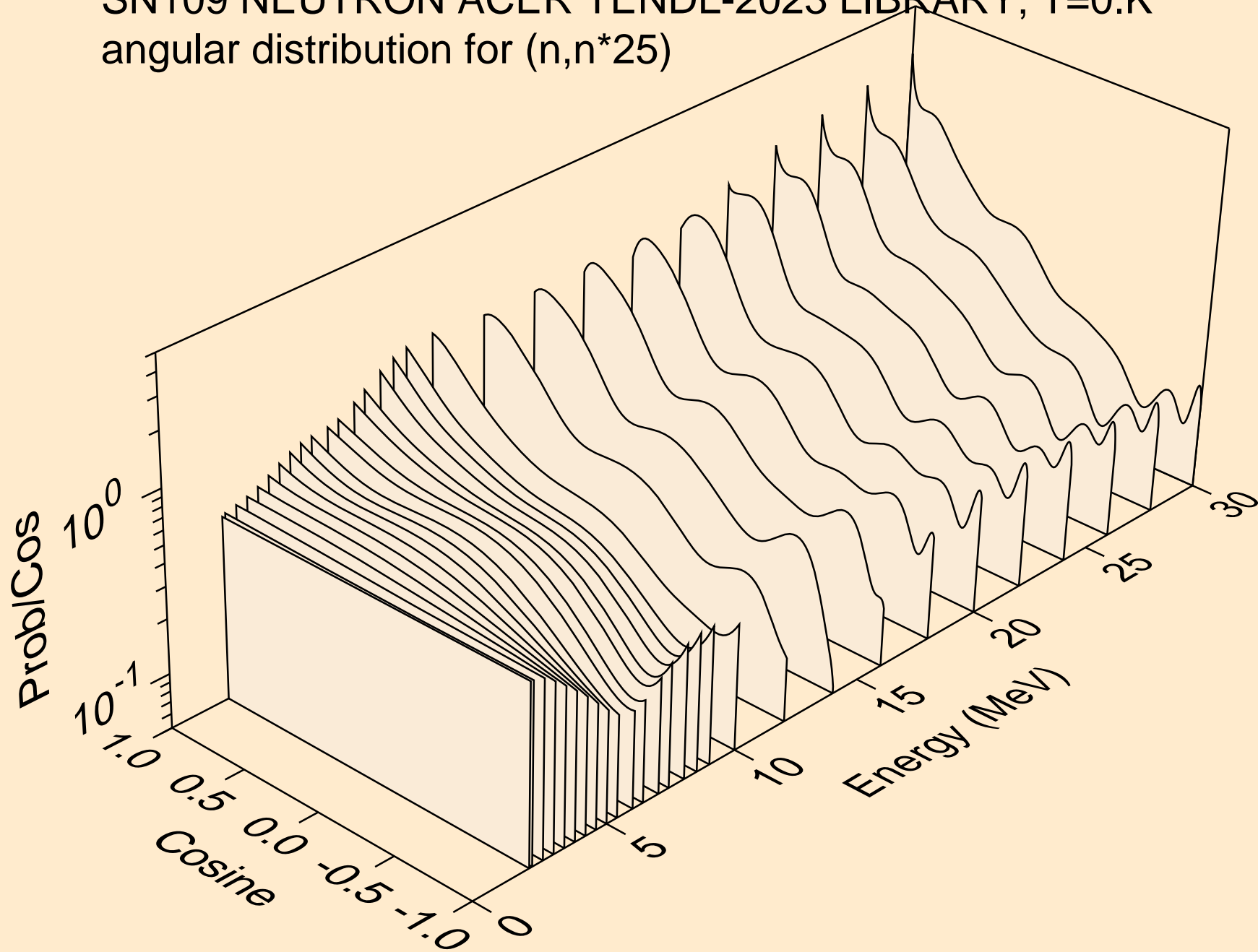


SN109 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*24)

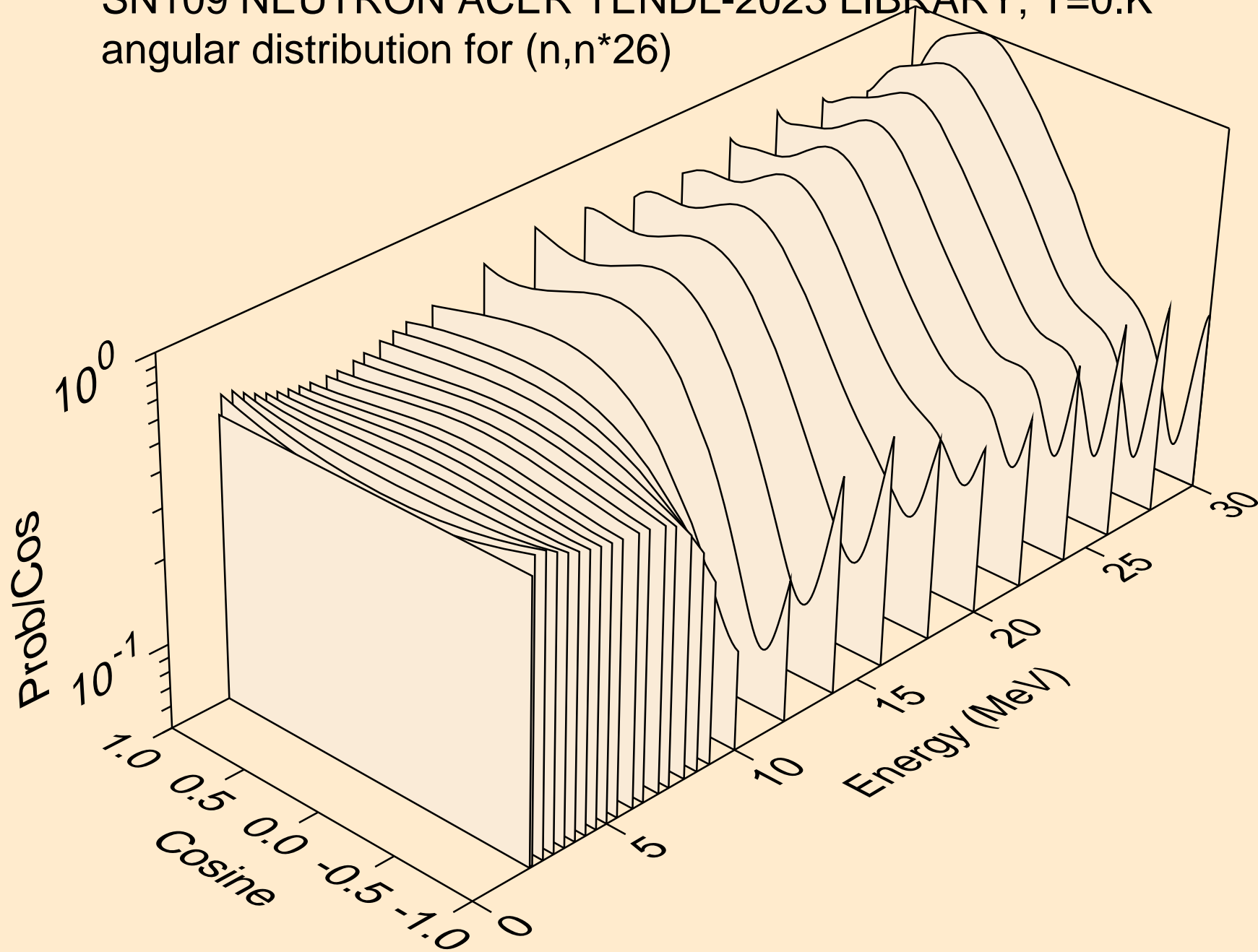




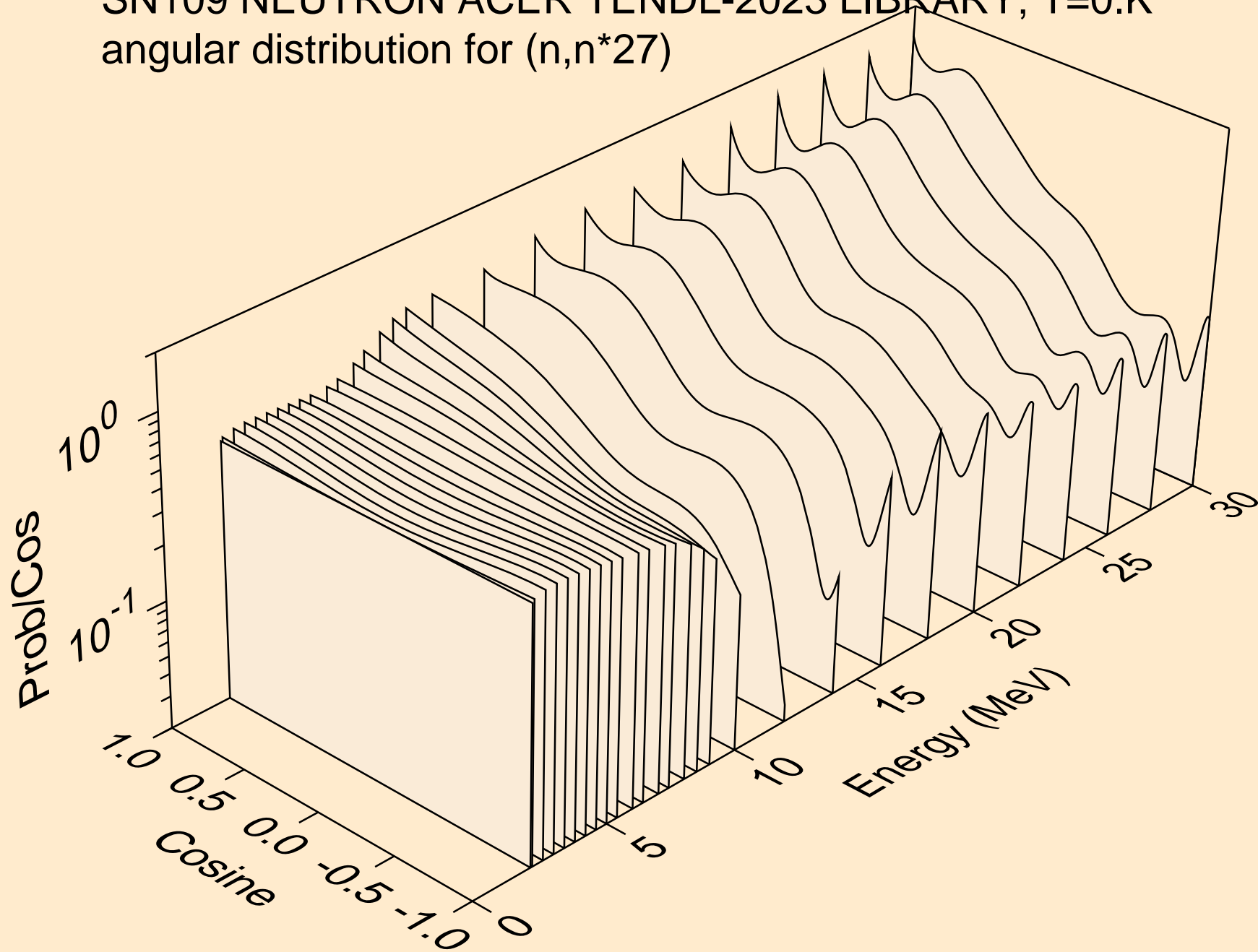
SN109 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*25)



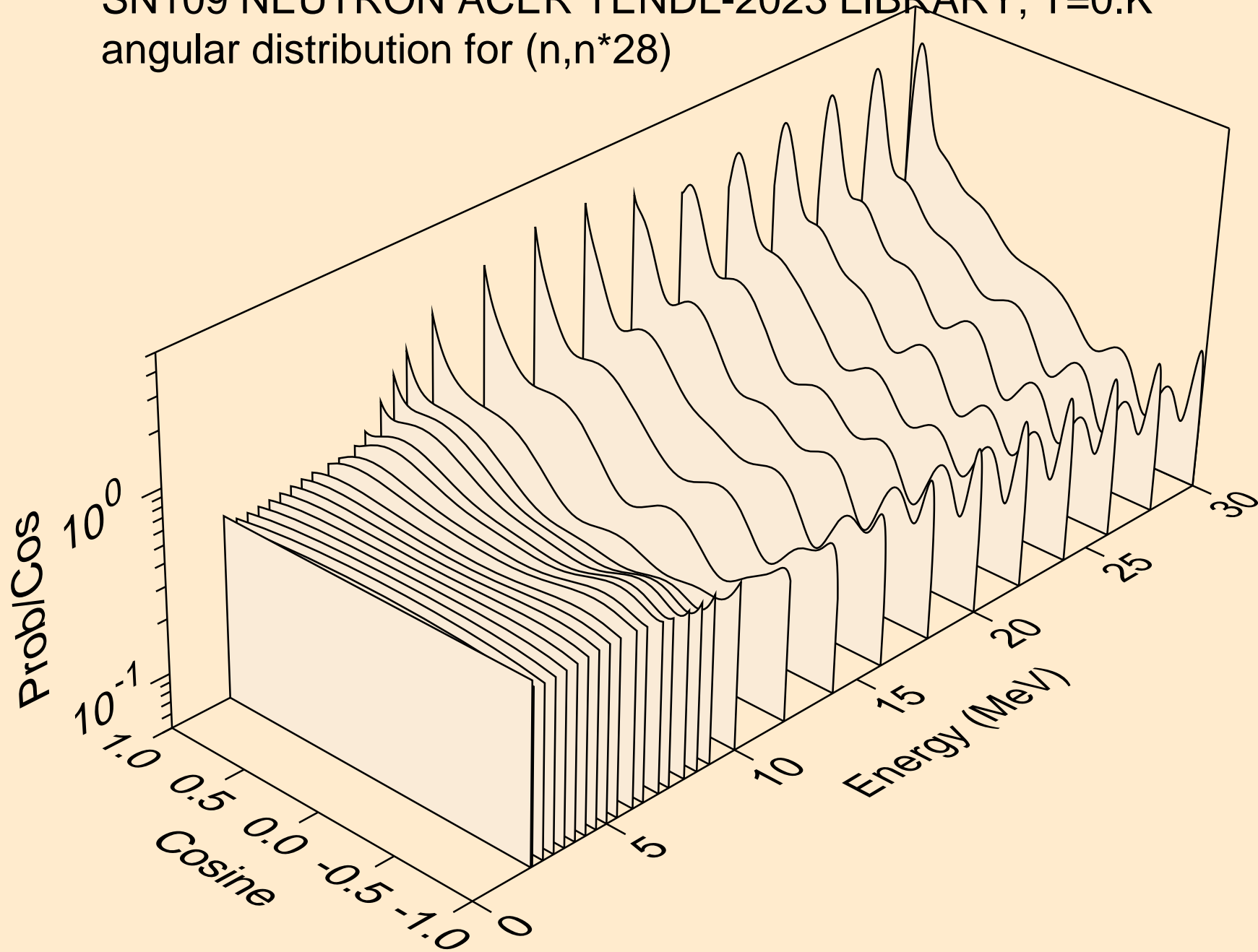
SN109 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*26)



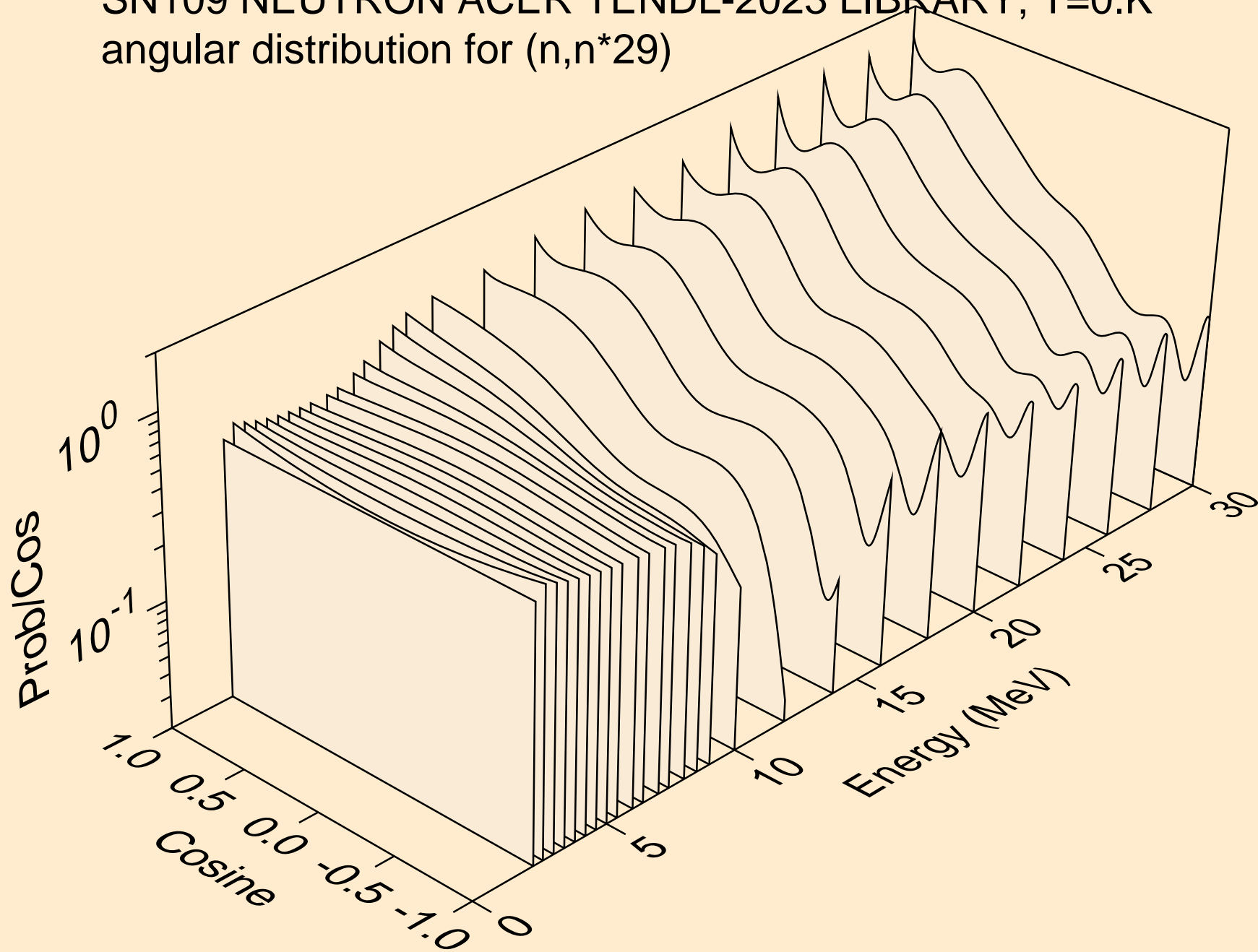
SN109 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*27)



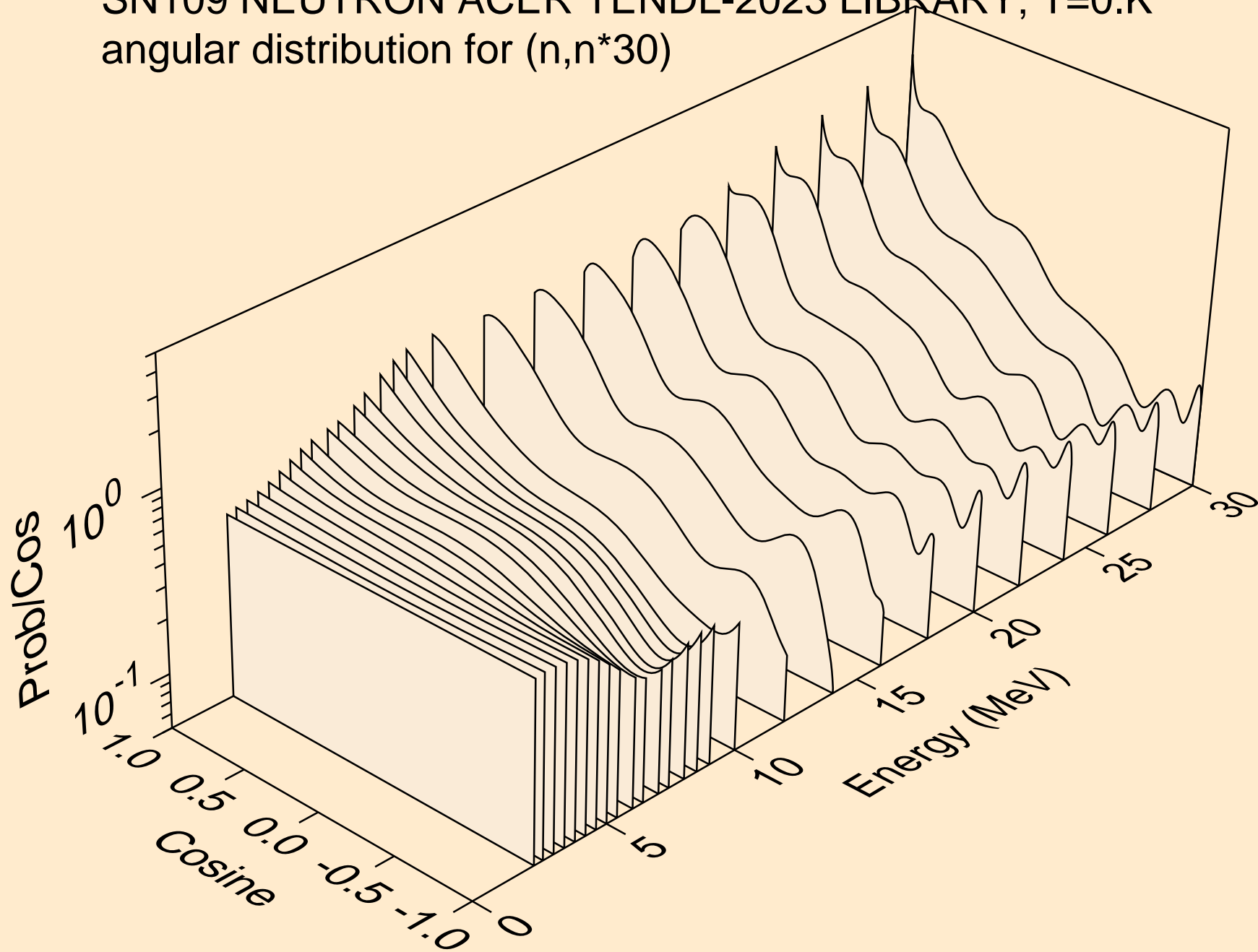
SN109 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*28)



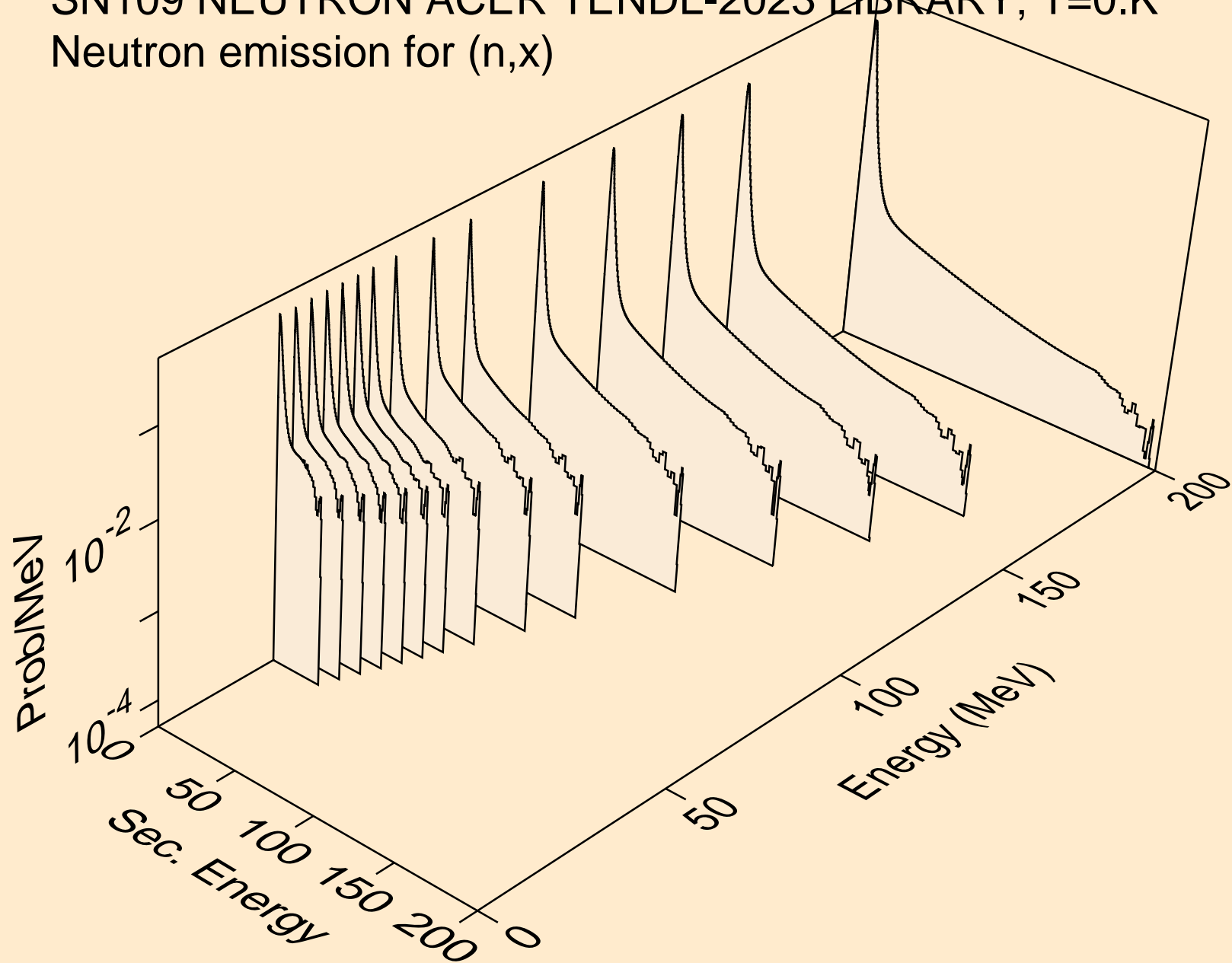
SN109 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*29)



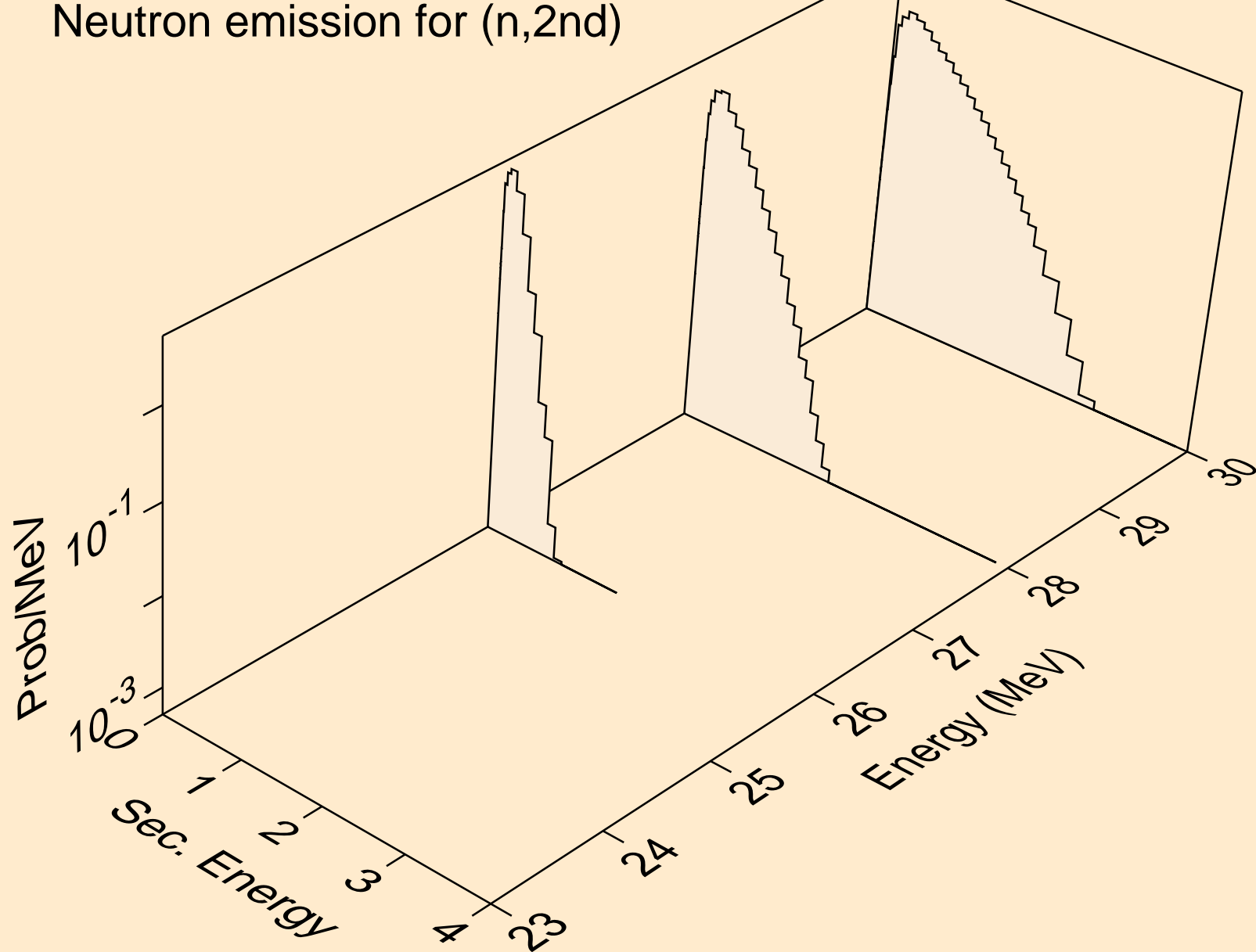
SN109 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*30)



SN109 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,x)

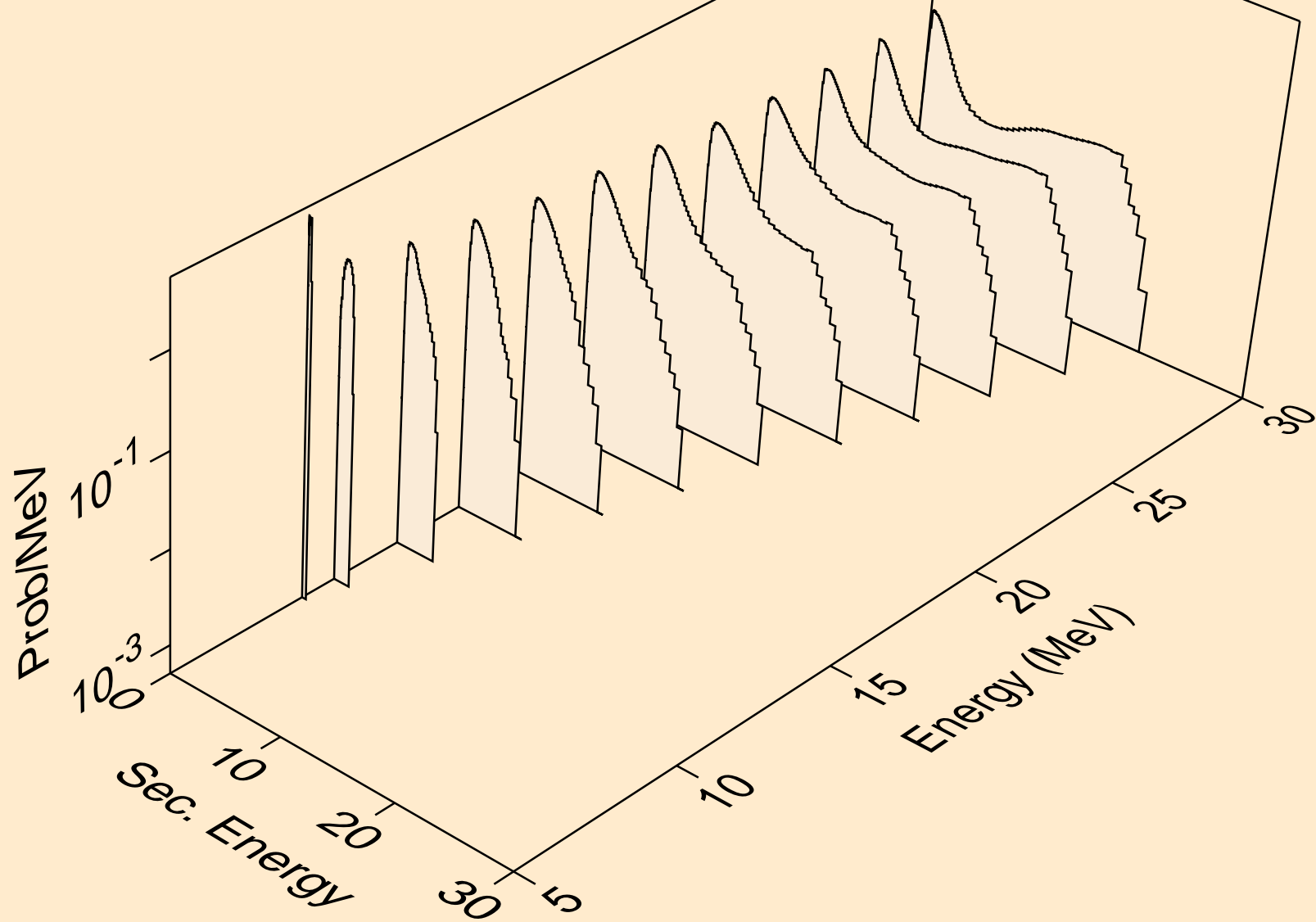


SN109 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,2nd)

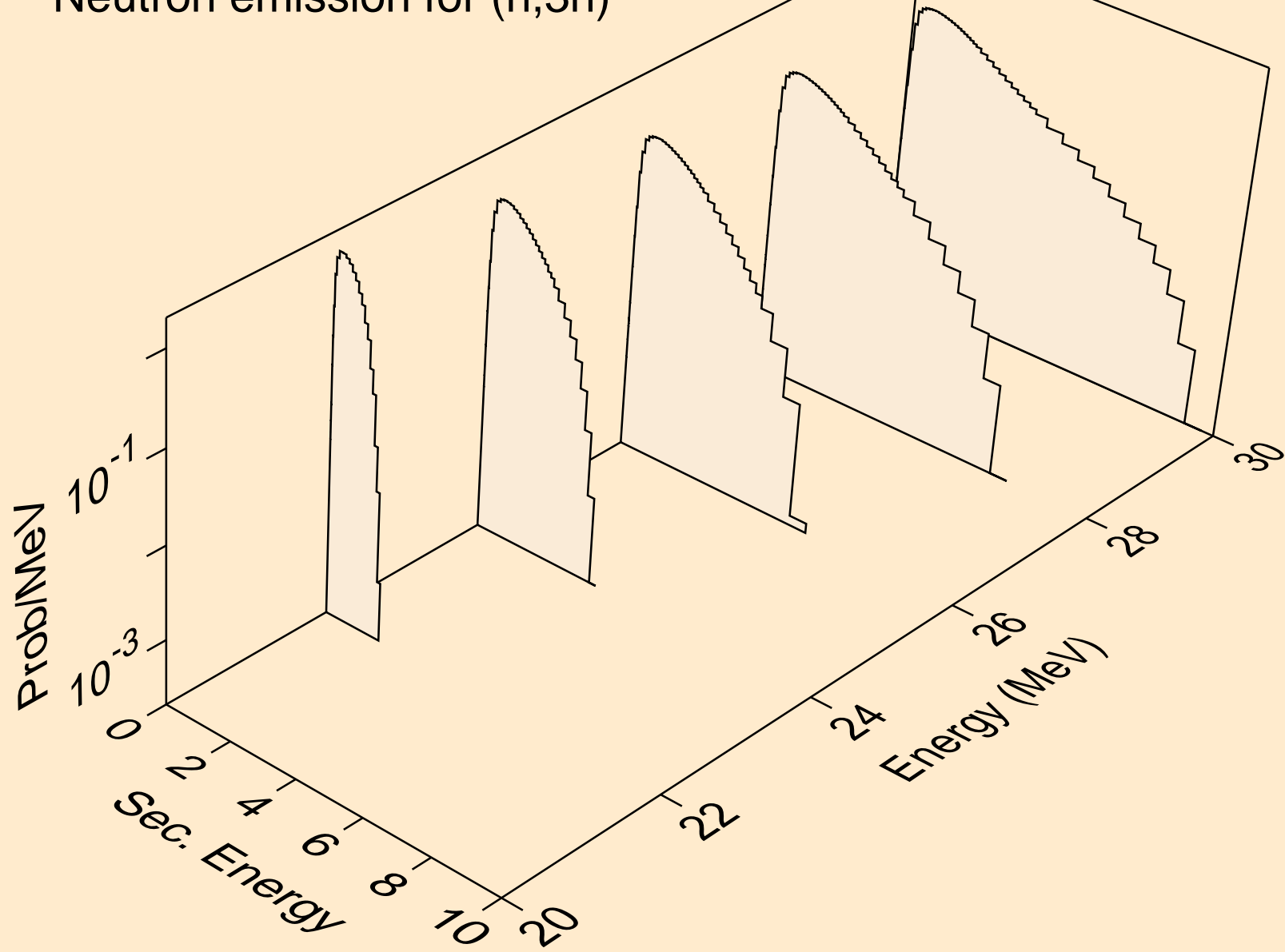




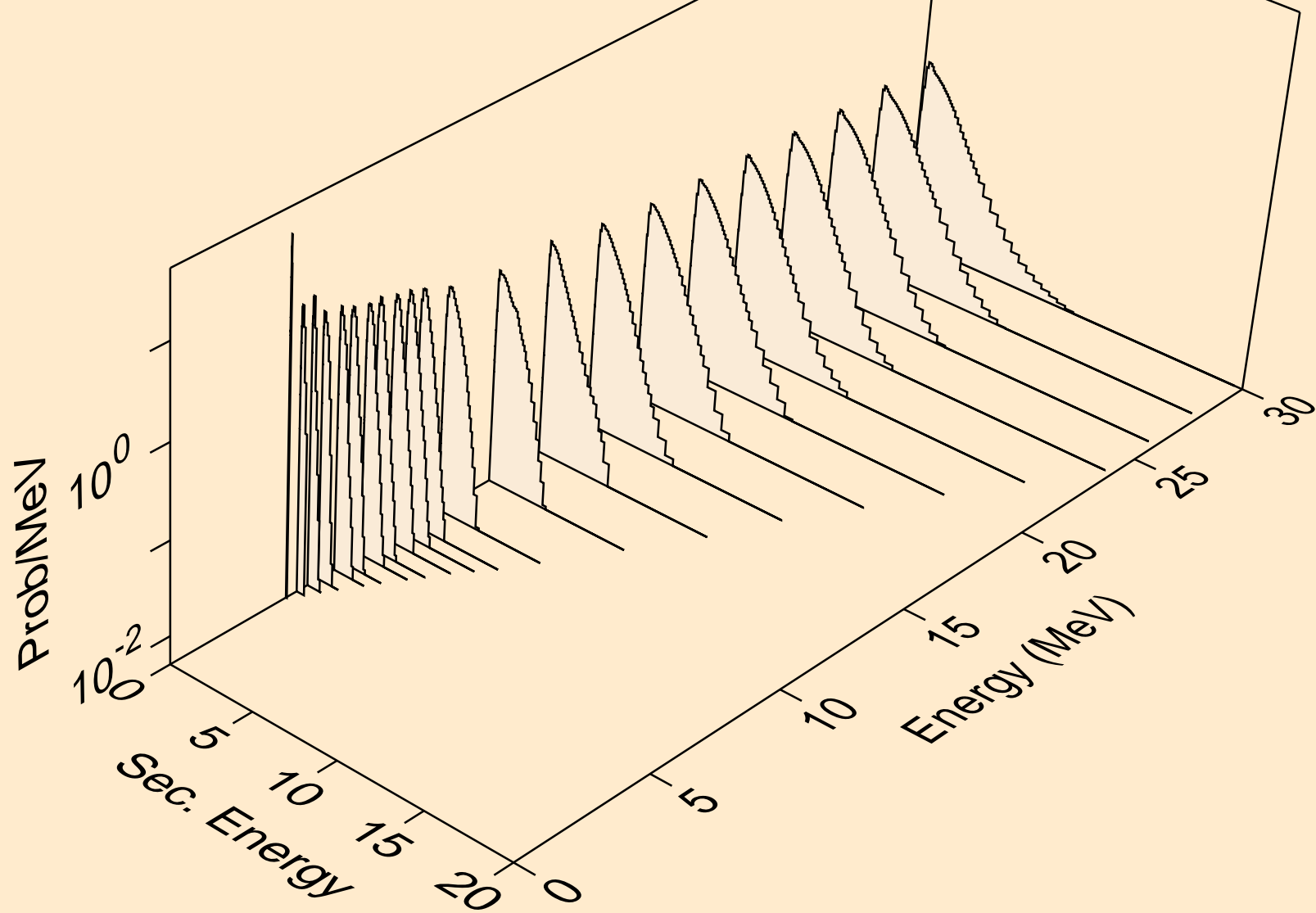
SN109 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,2n)



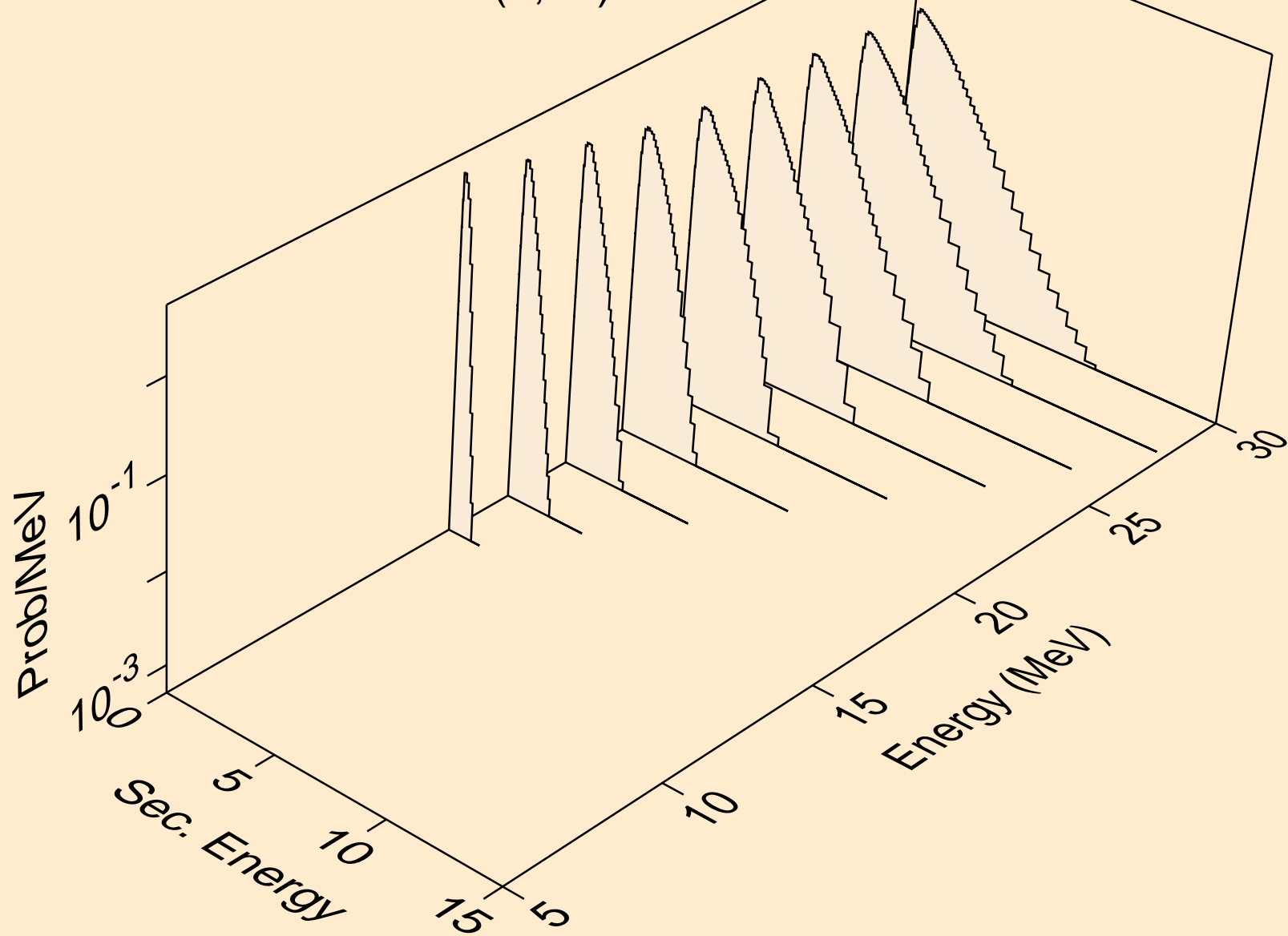
SN109 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,3n)



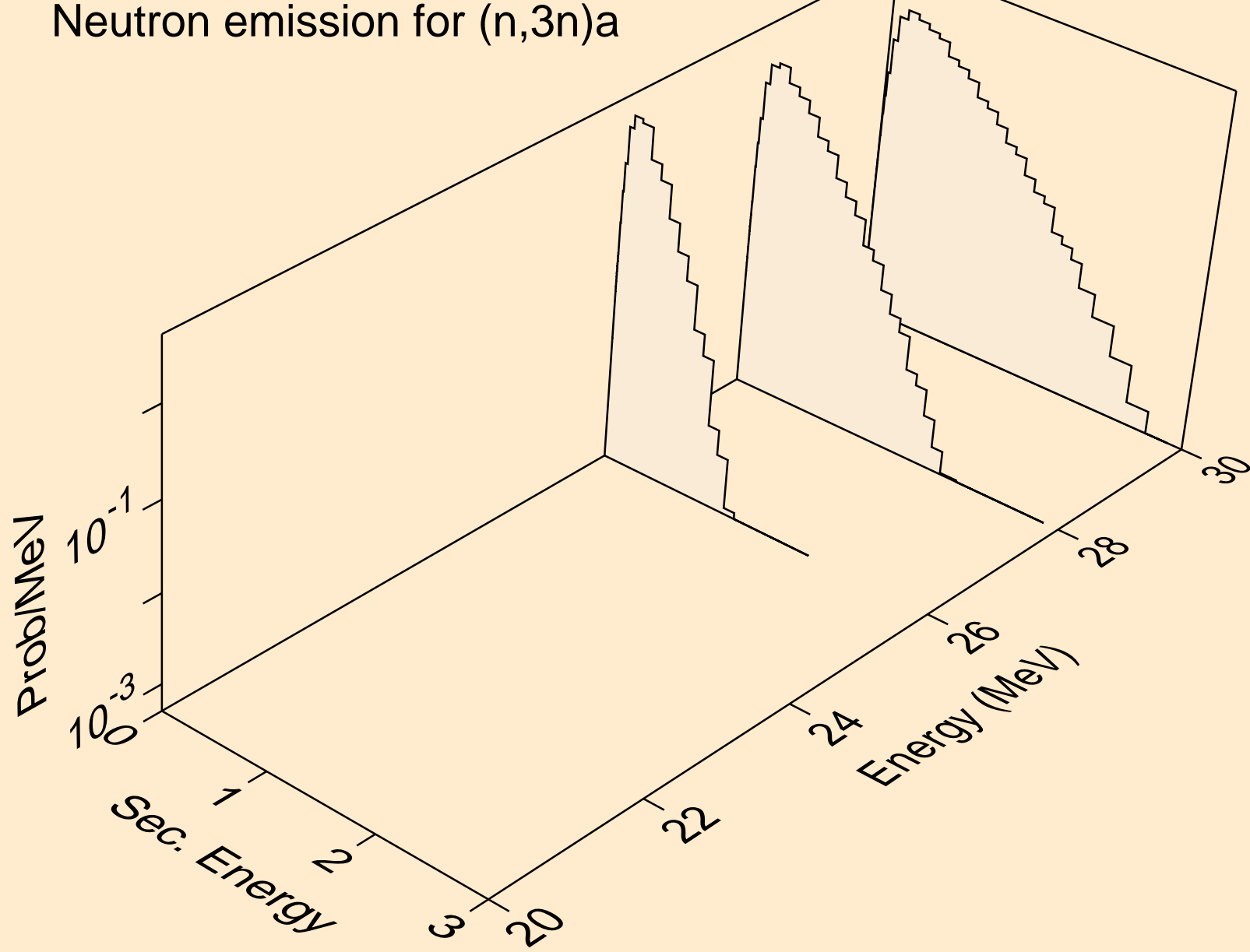
SN109 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,n\*)a



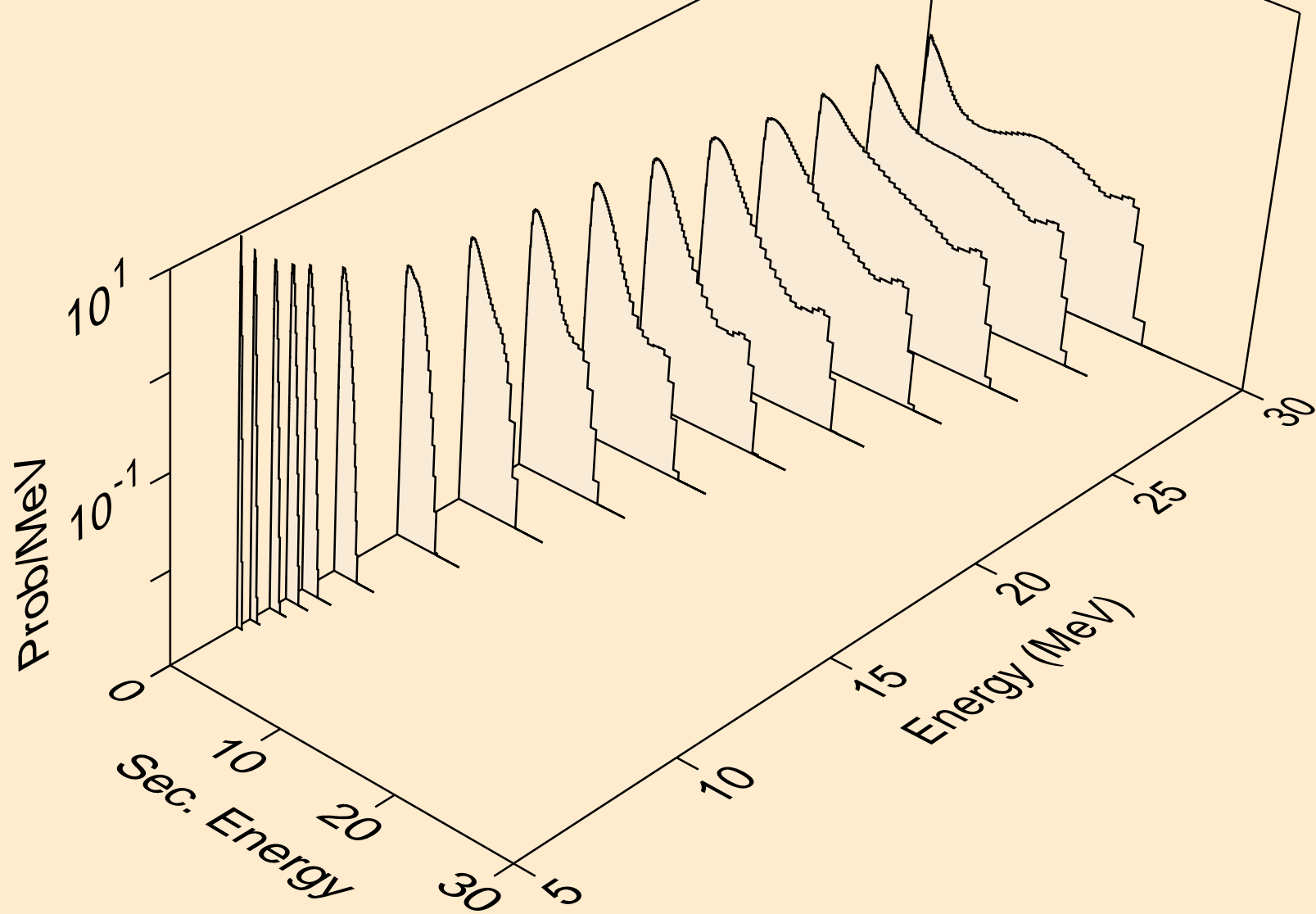
SN109 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,2n)a



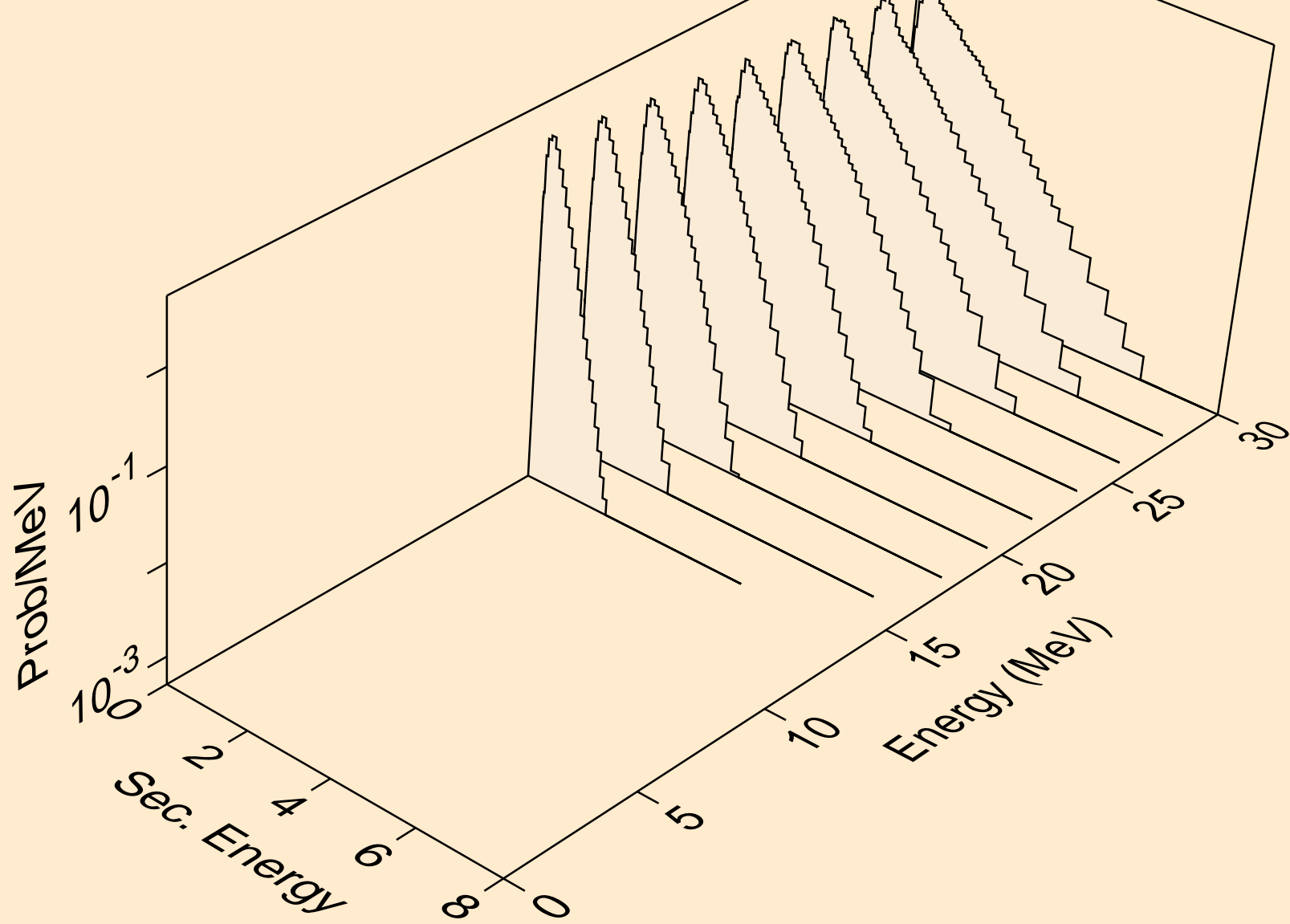
SN109 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,3n)a



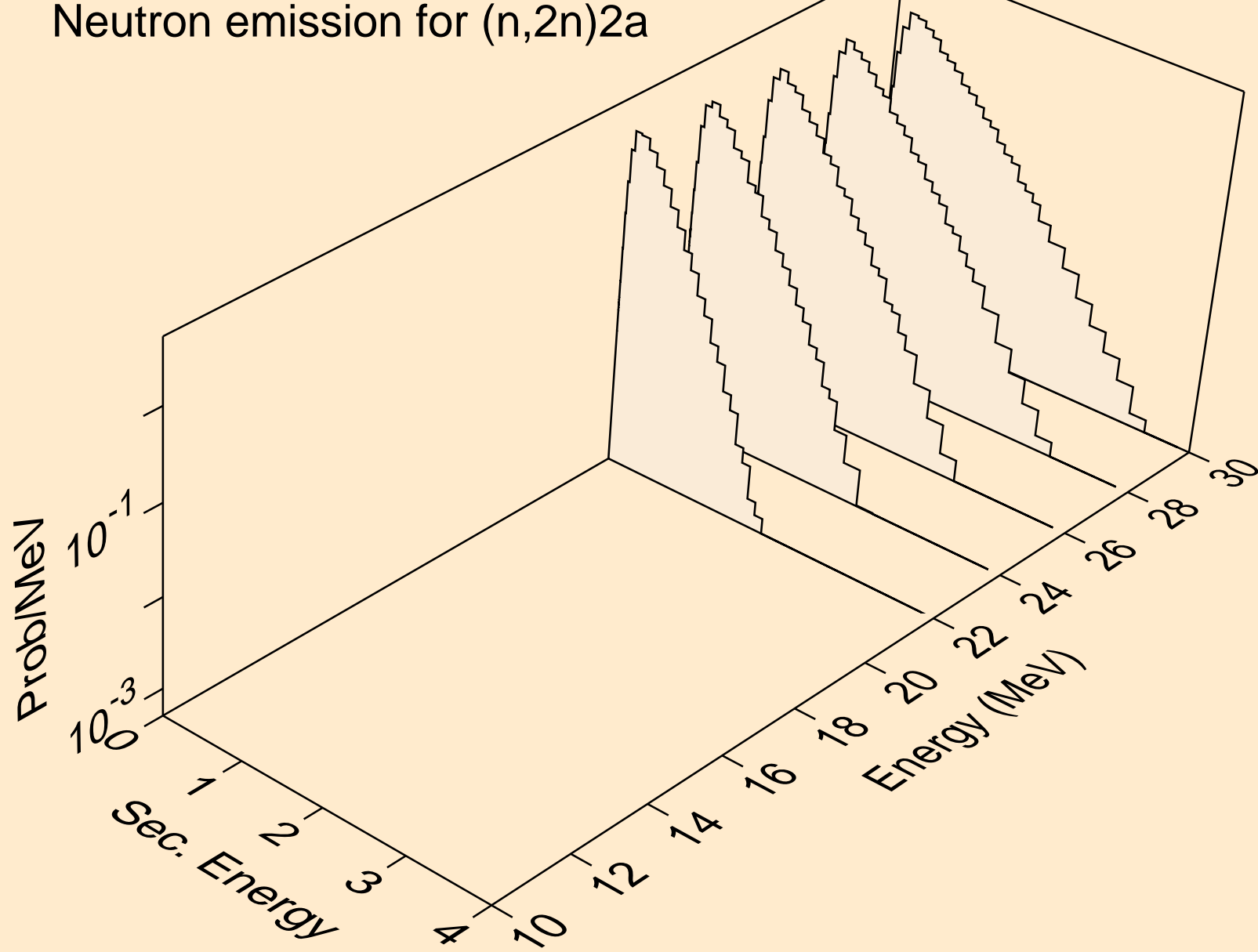
SN109 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,n\*)p



SN109 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,n\*)2a

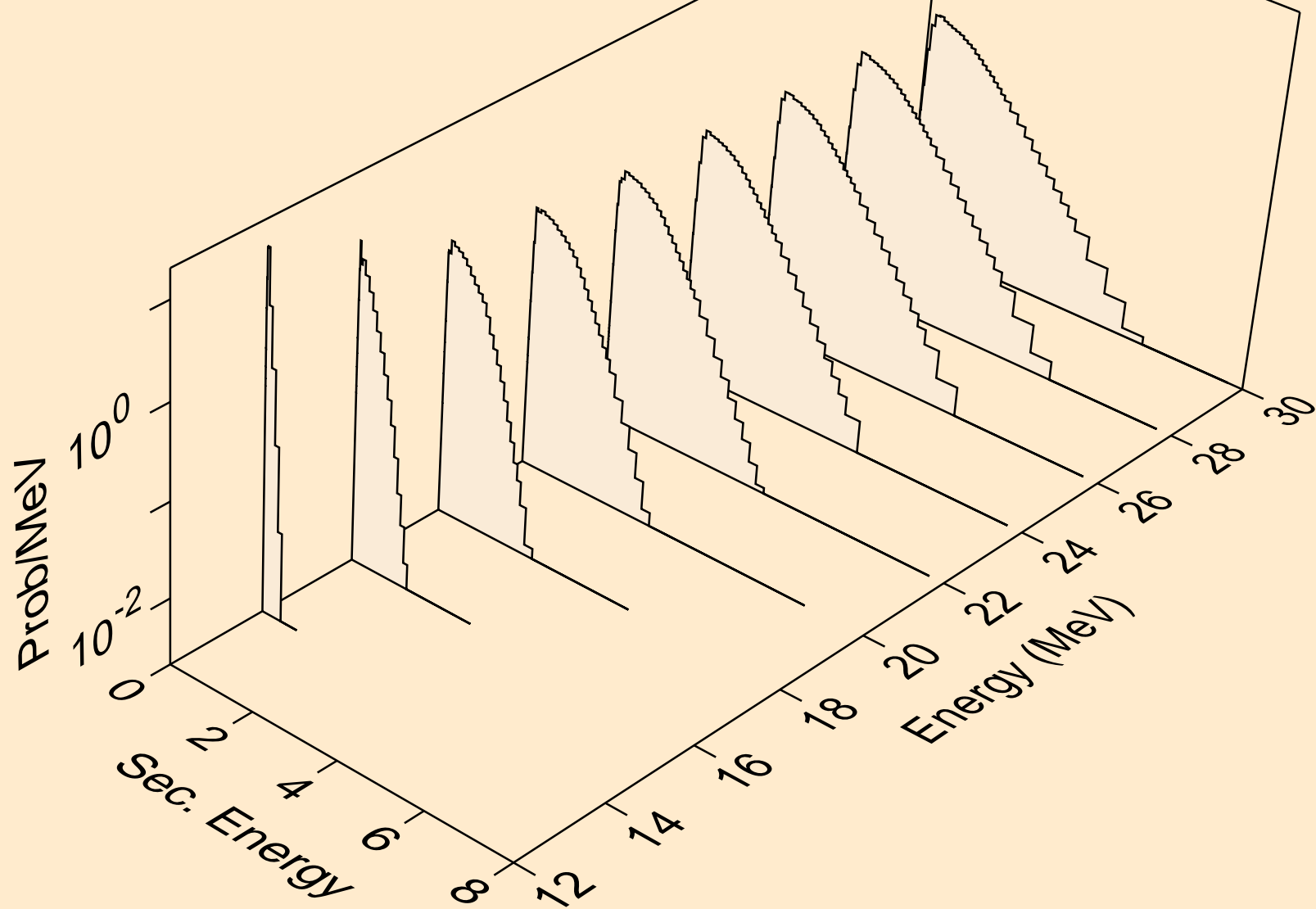


SN109 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,2n)2a

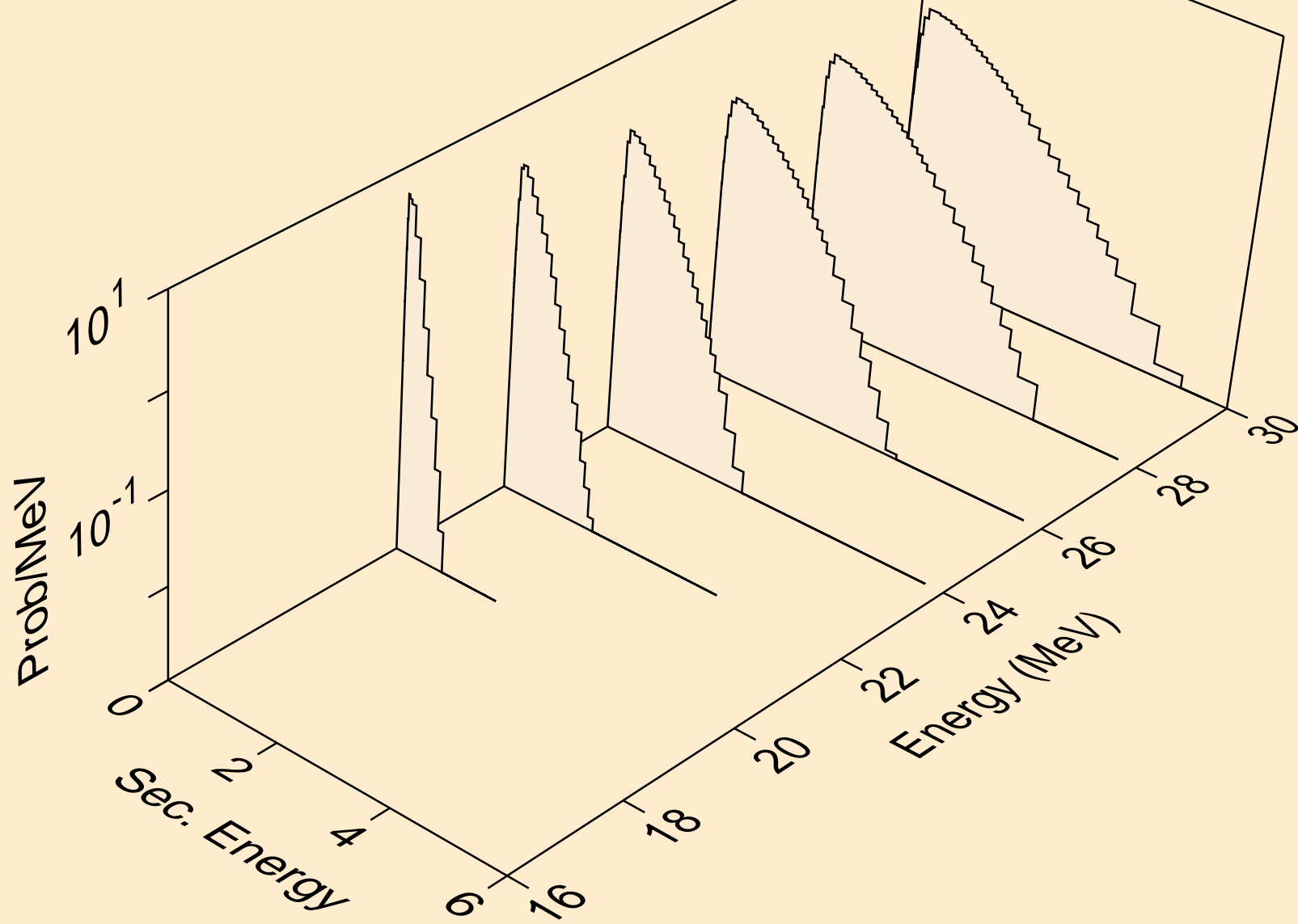




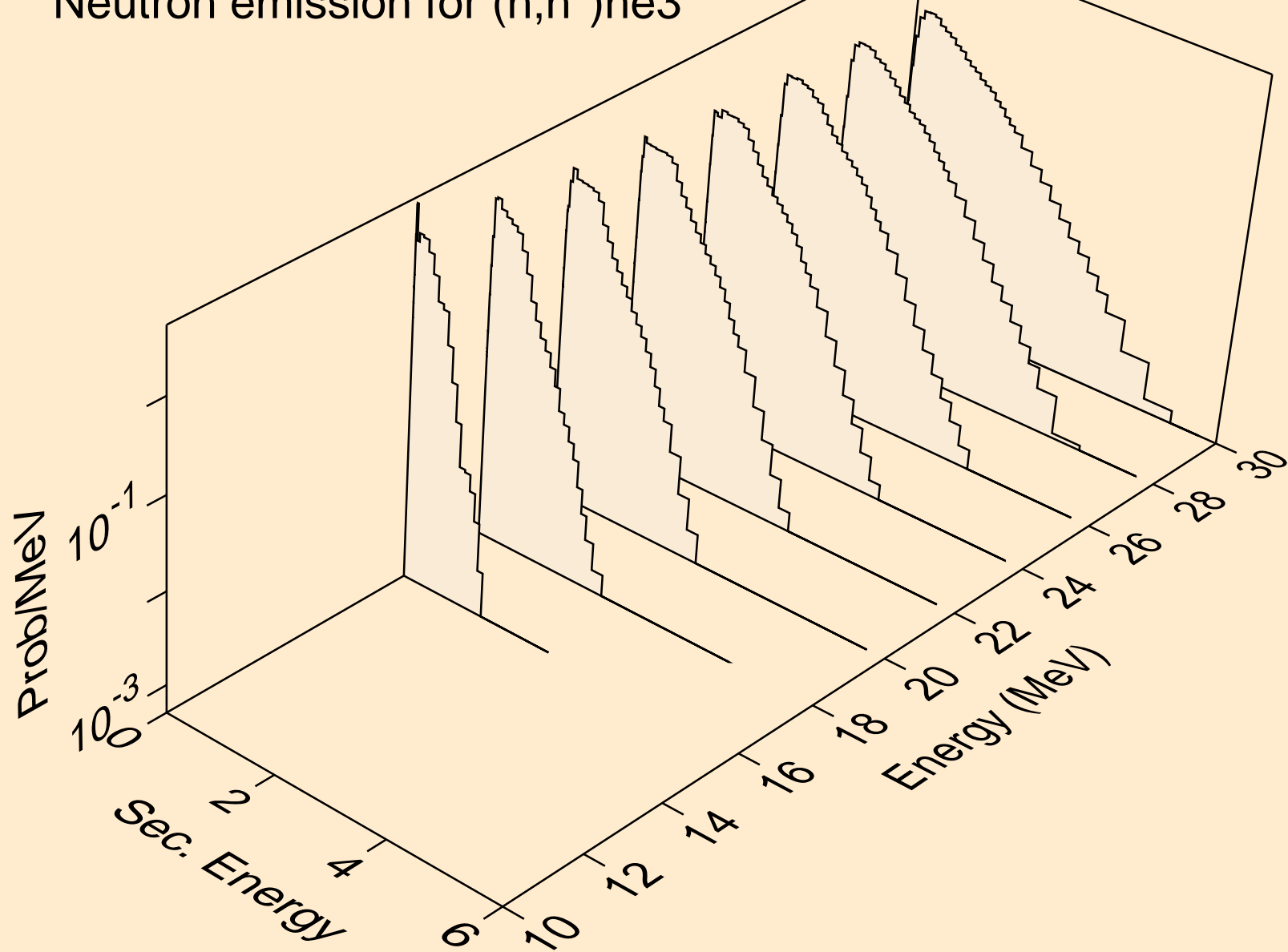
SN109 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,n\*)d



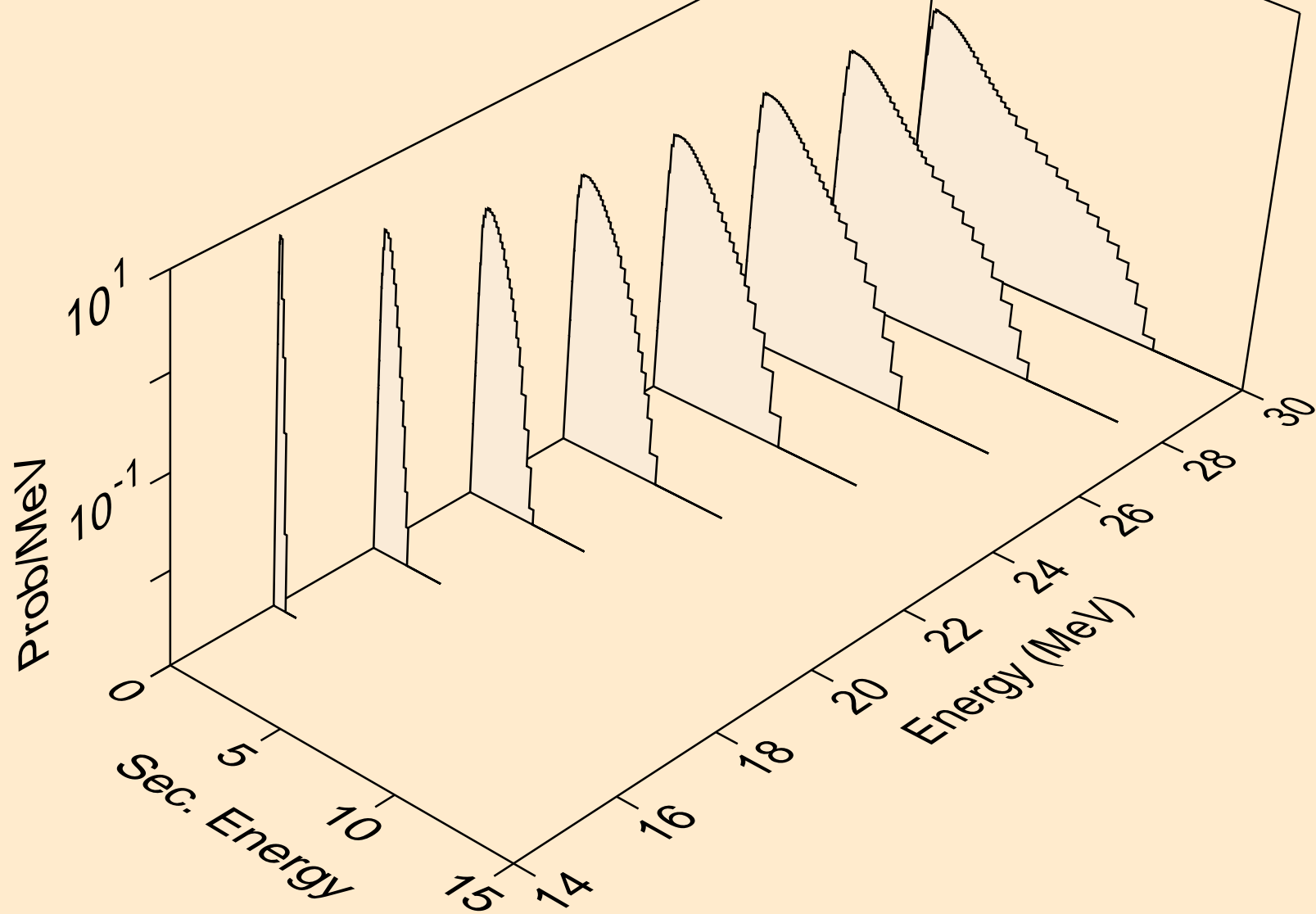
SN109 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,n\*)t



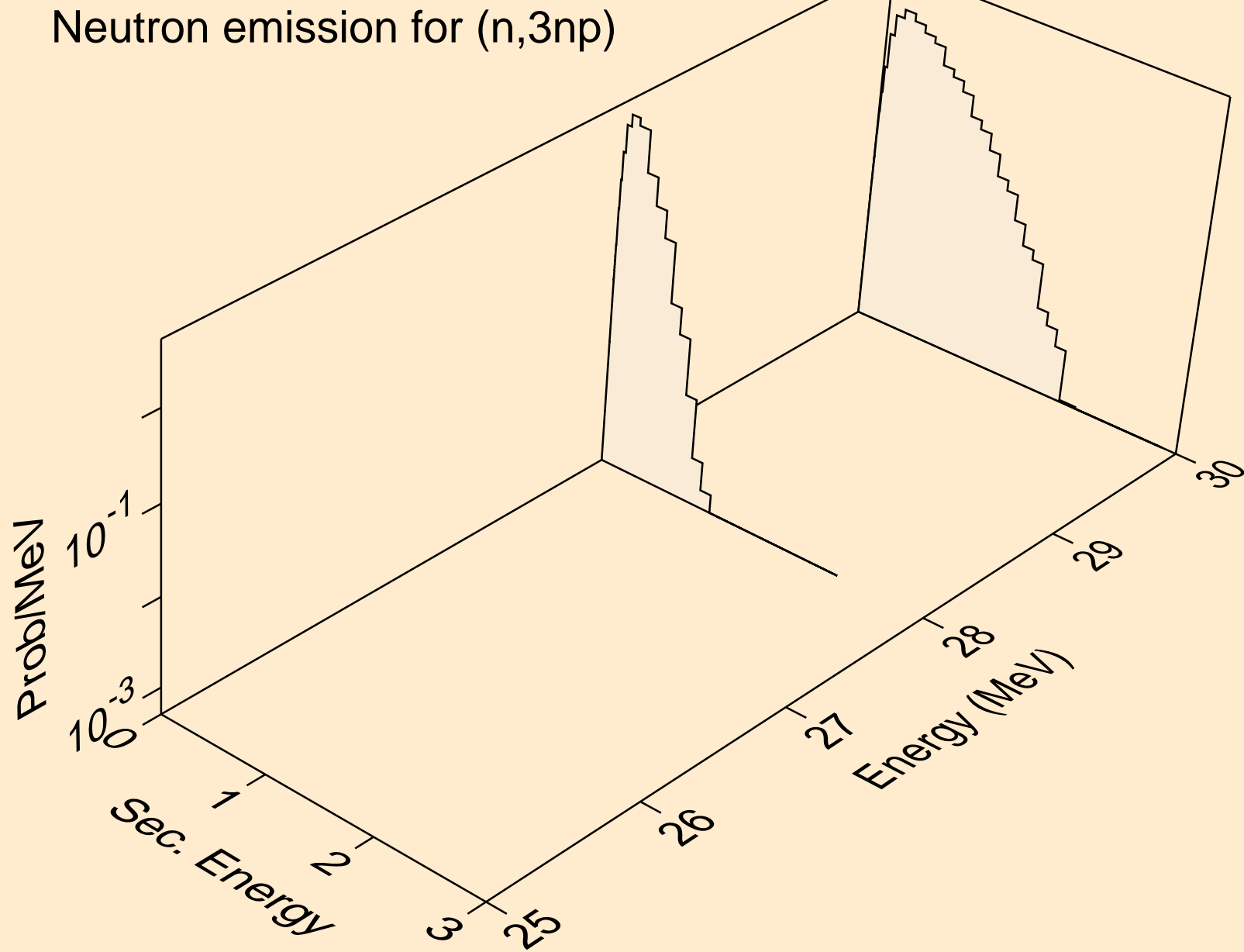
SN109 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,n\*)he3



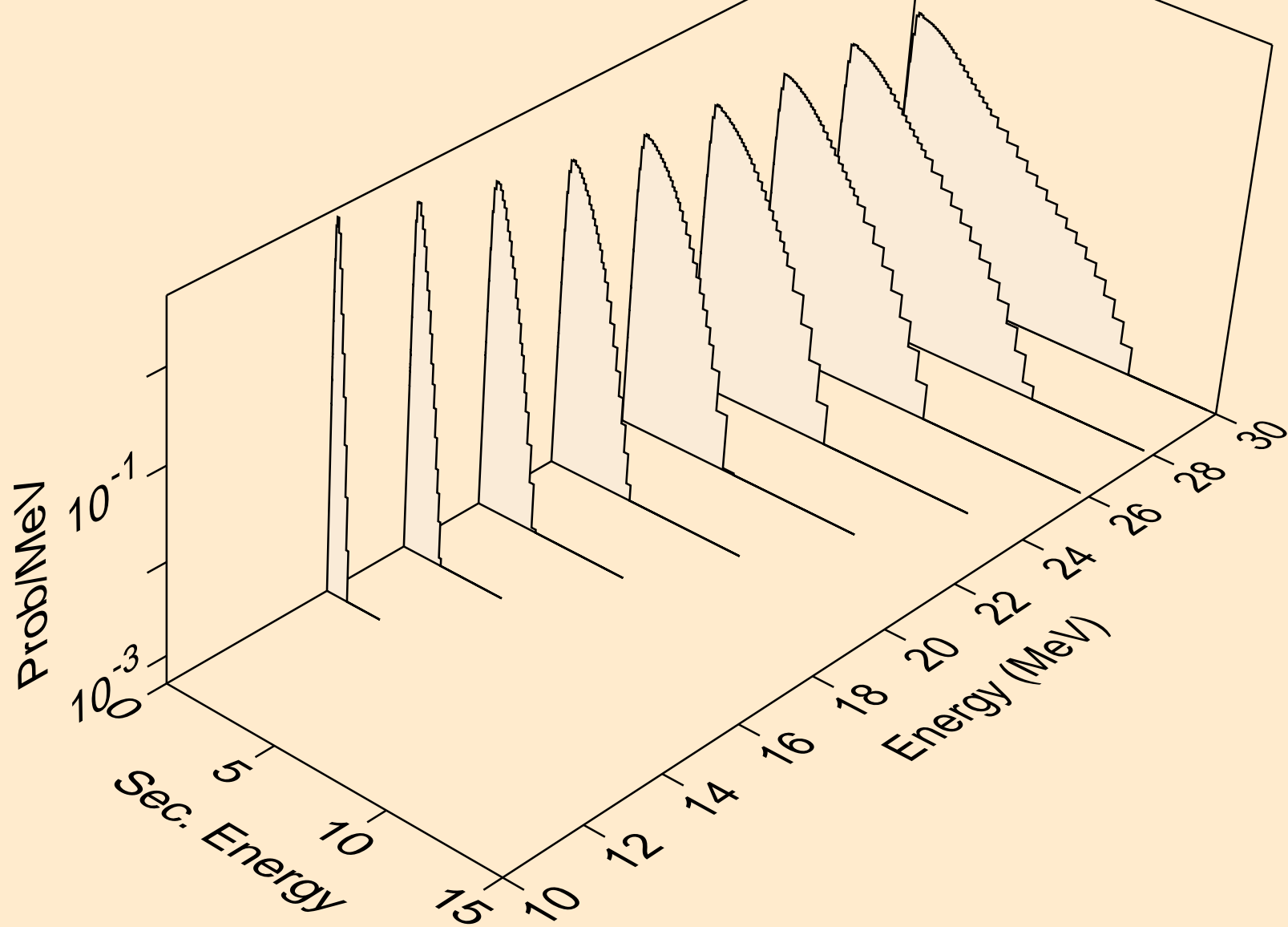
SN109 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,2np)



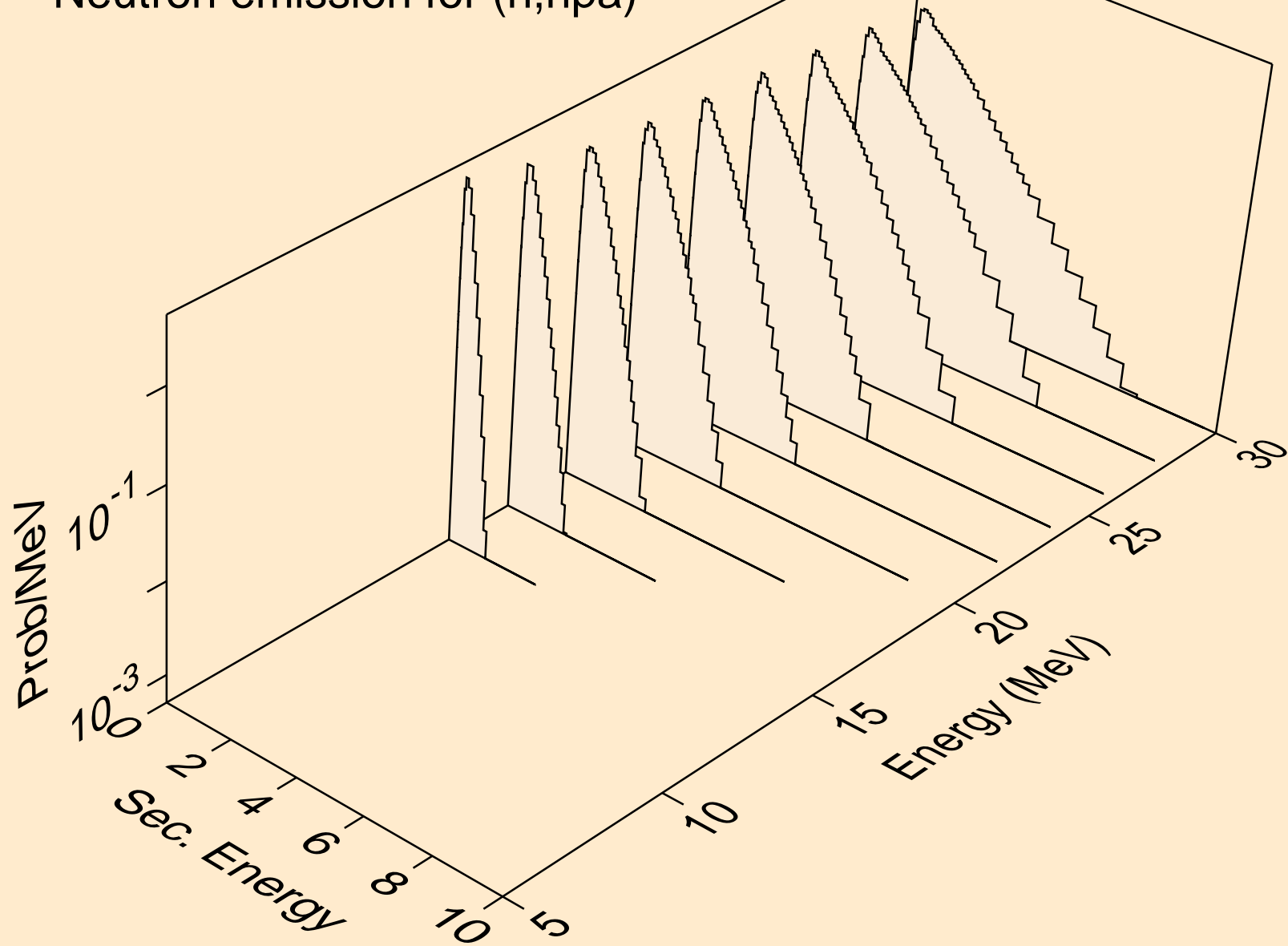
SN109 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,3np)



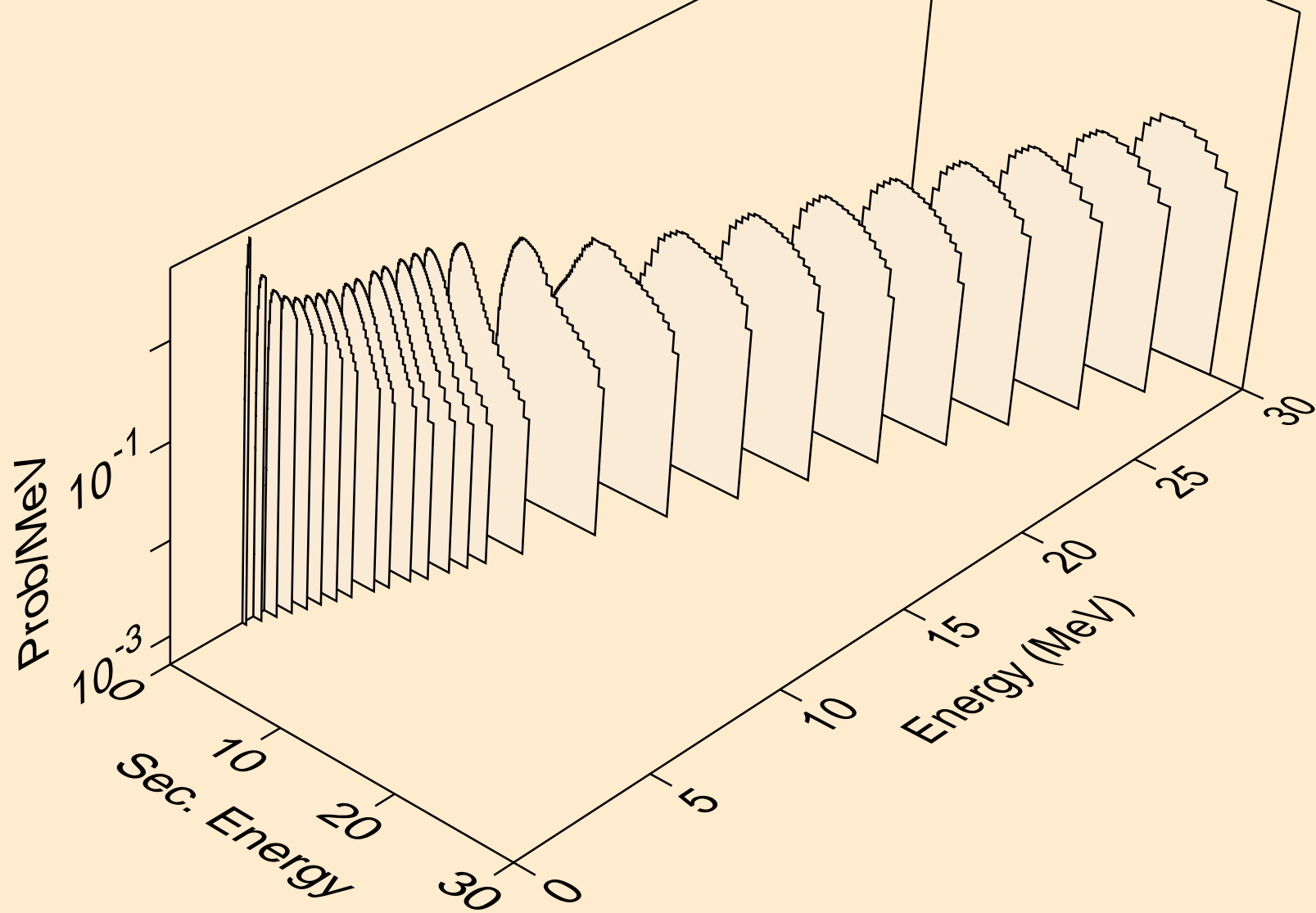
SN109 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,n2p)



SN109 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,npa)

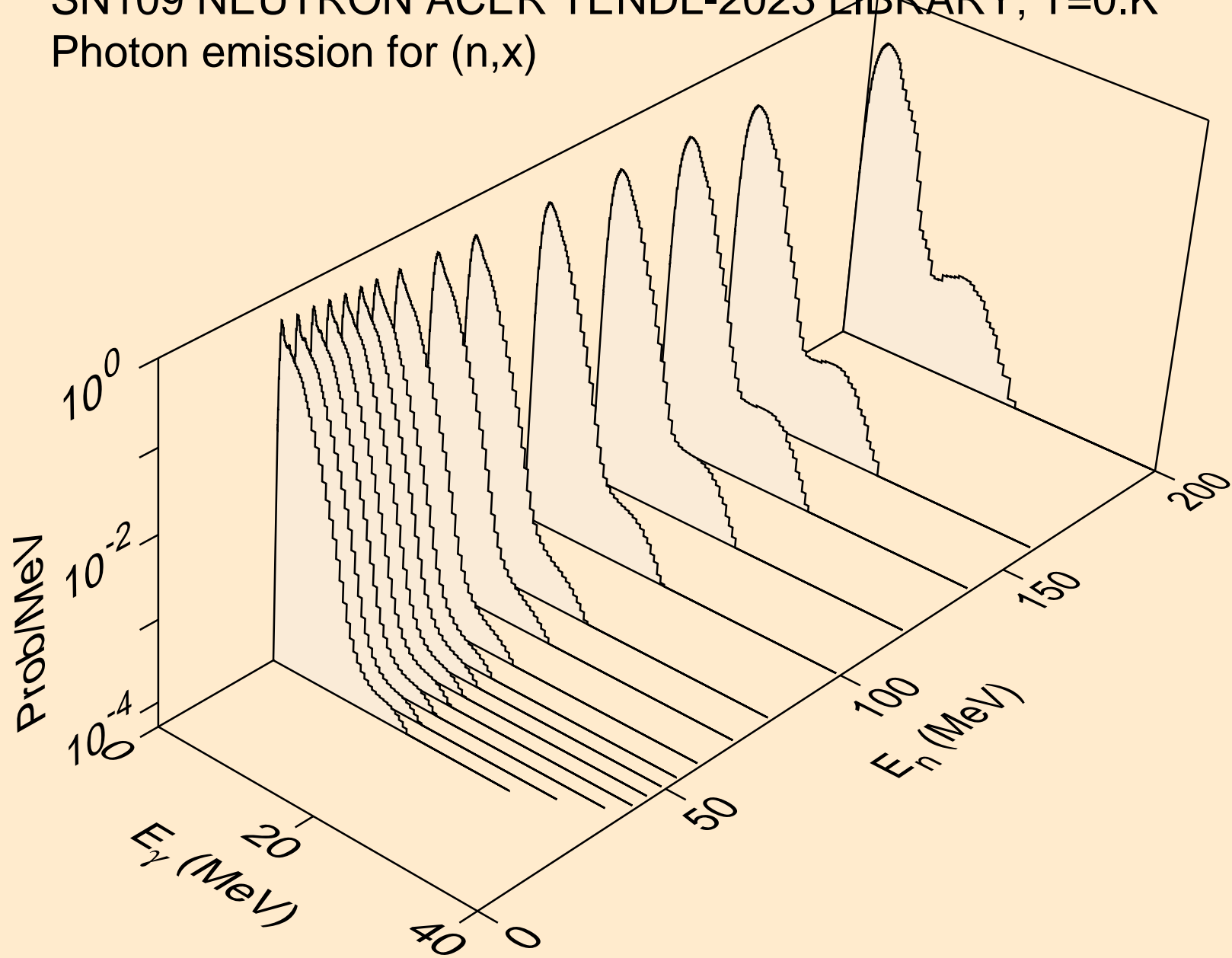


SN109 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,n\*c)

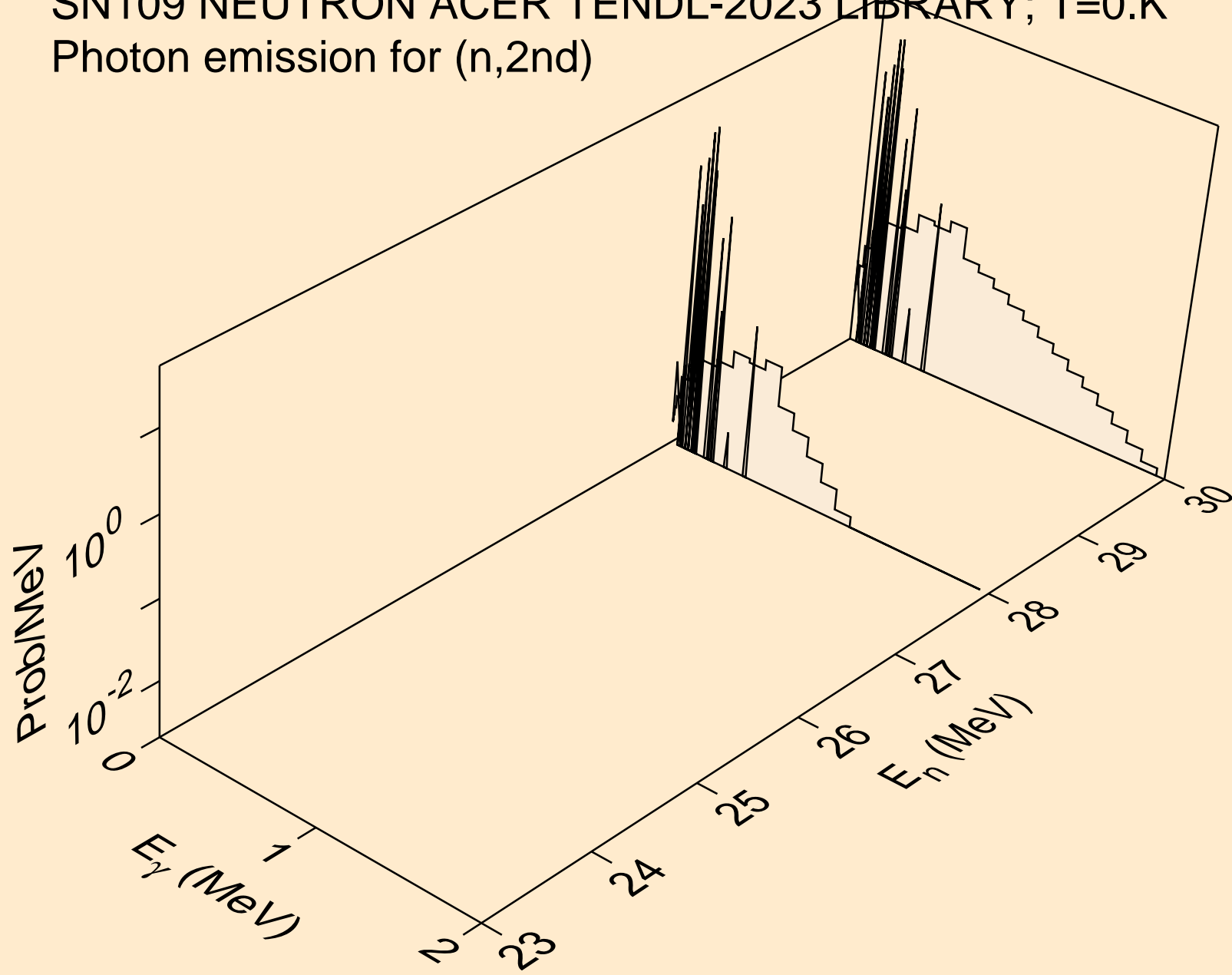




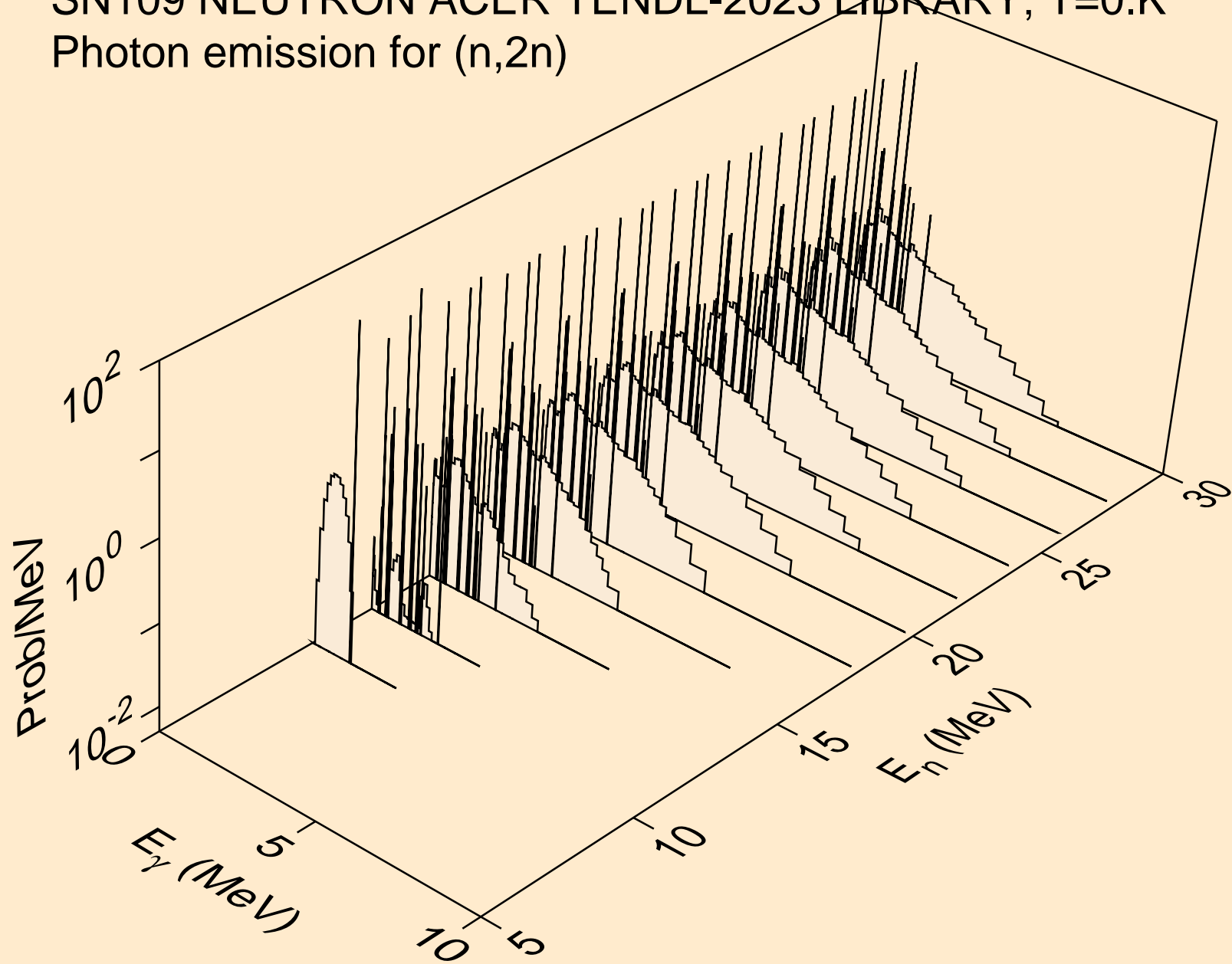
SN109 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,x)



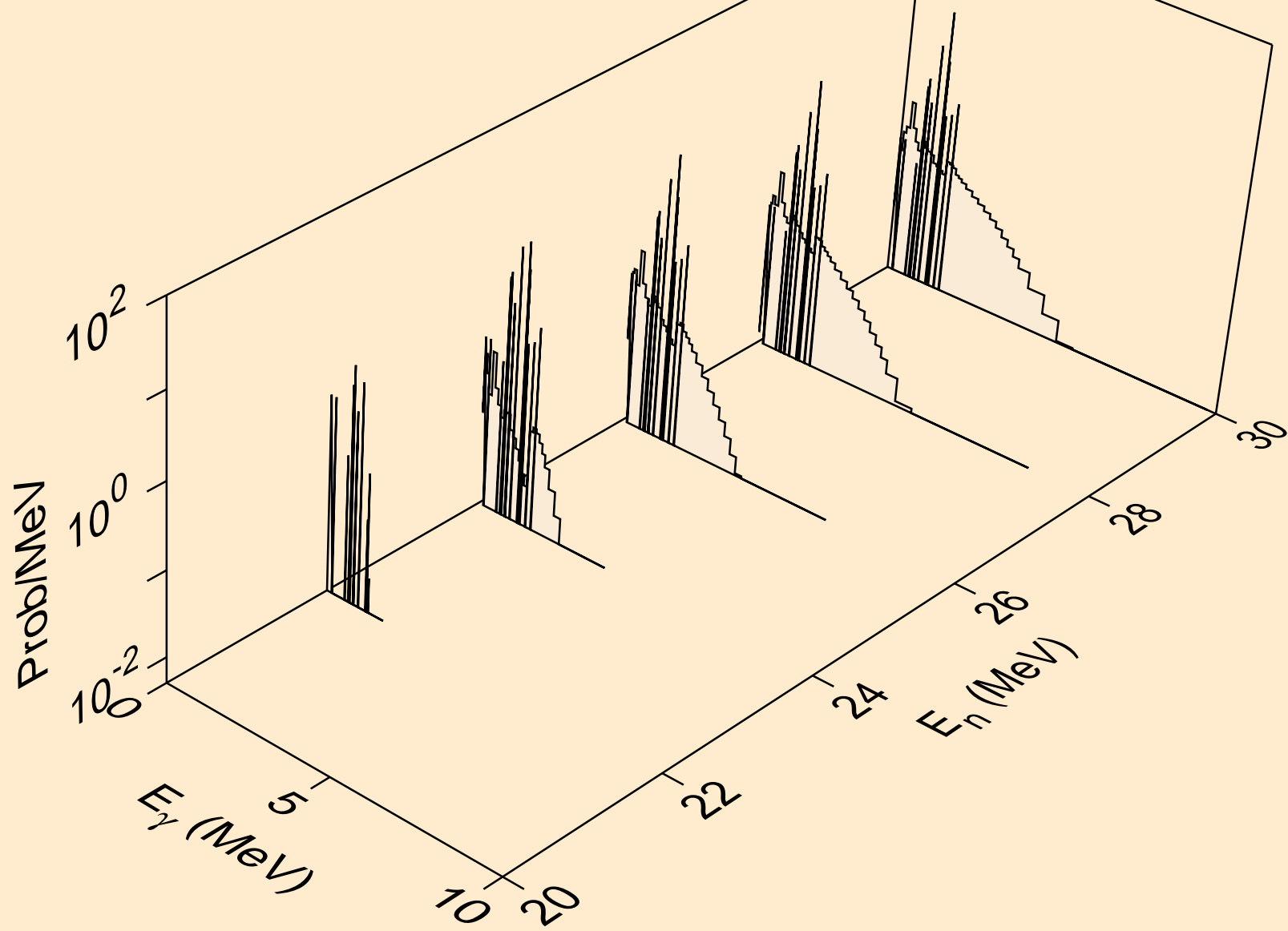
SN109 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2nd)



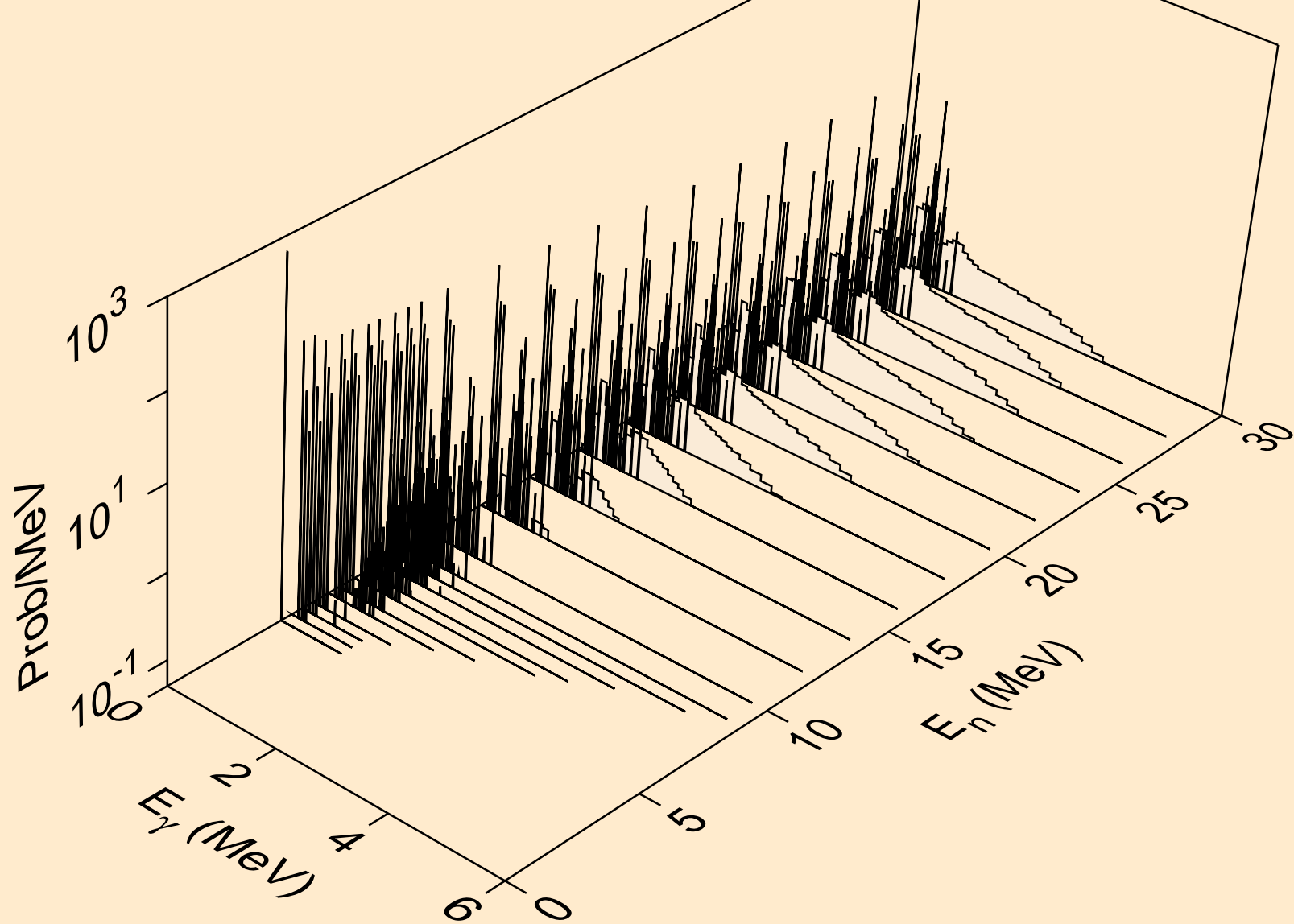
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Photon emission for (n,2n)



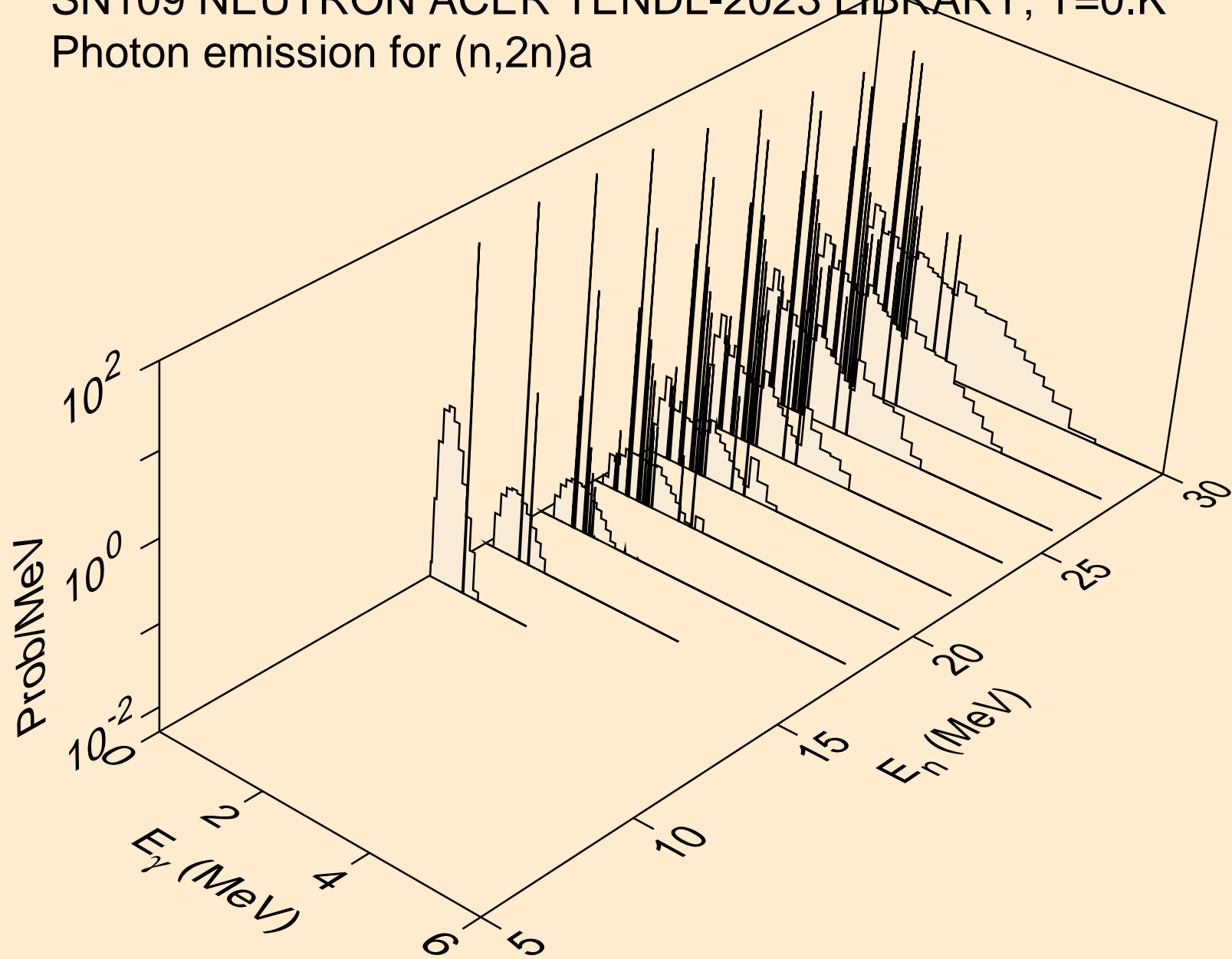
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Photon emission for (n,3n)



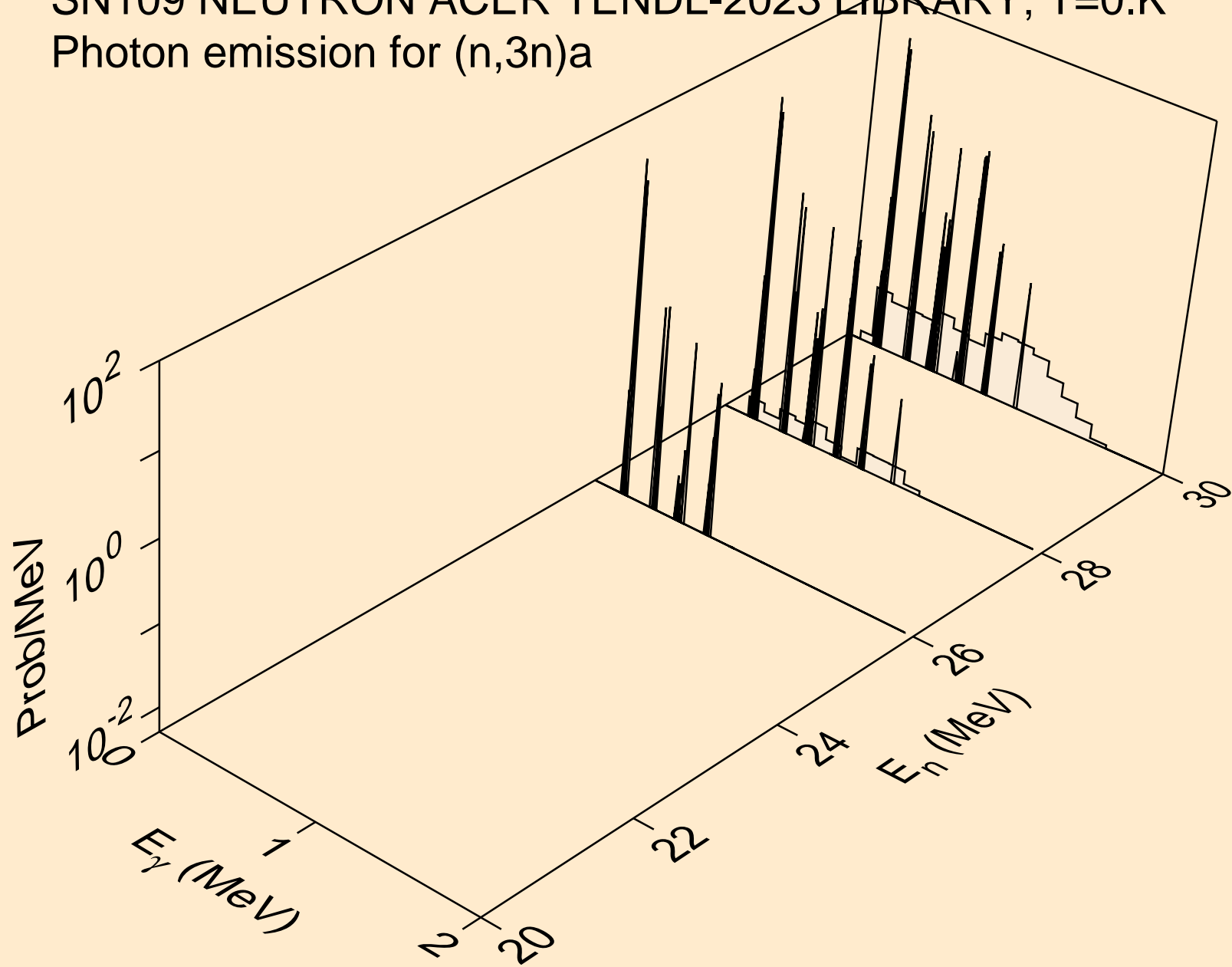
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Photon emission for (n,n\*)a



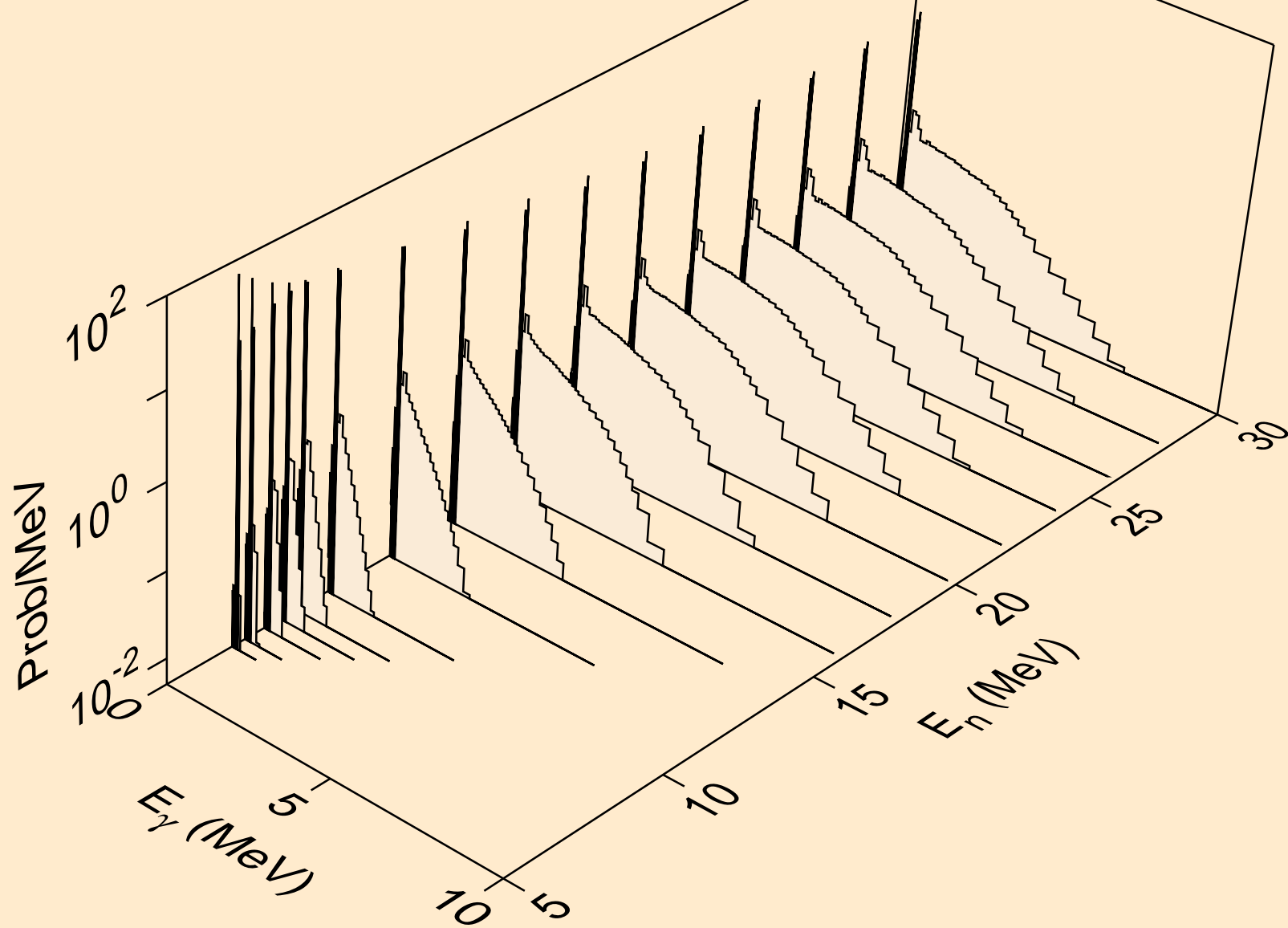
SN109 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2n)a



SN109 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,3n)a

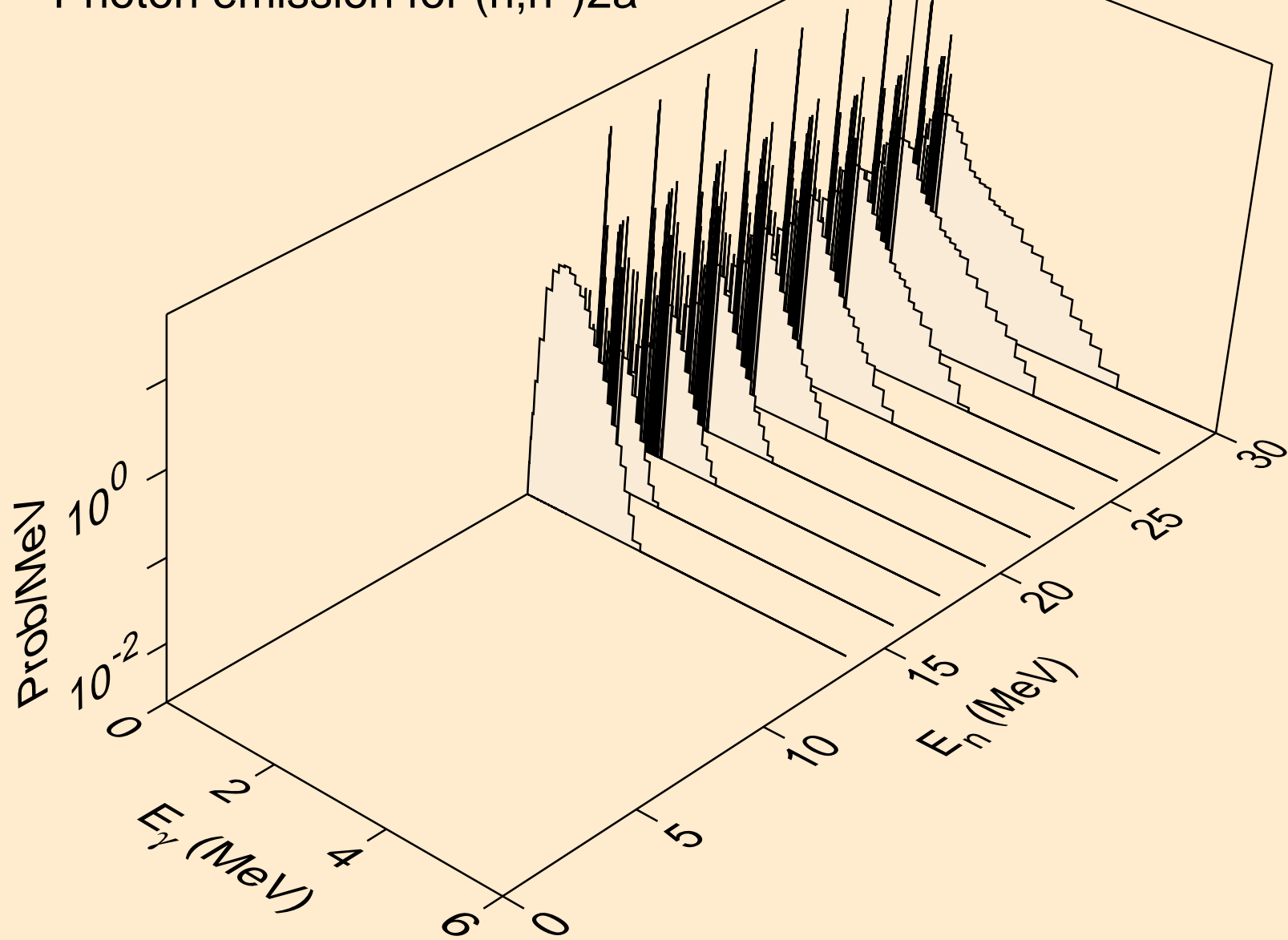


SN109 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)p

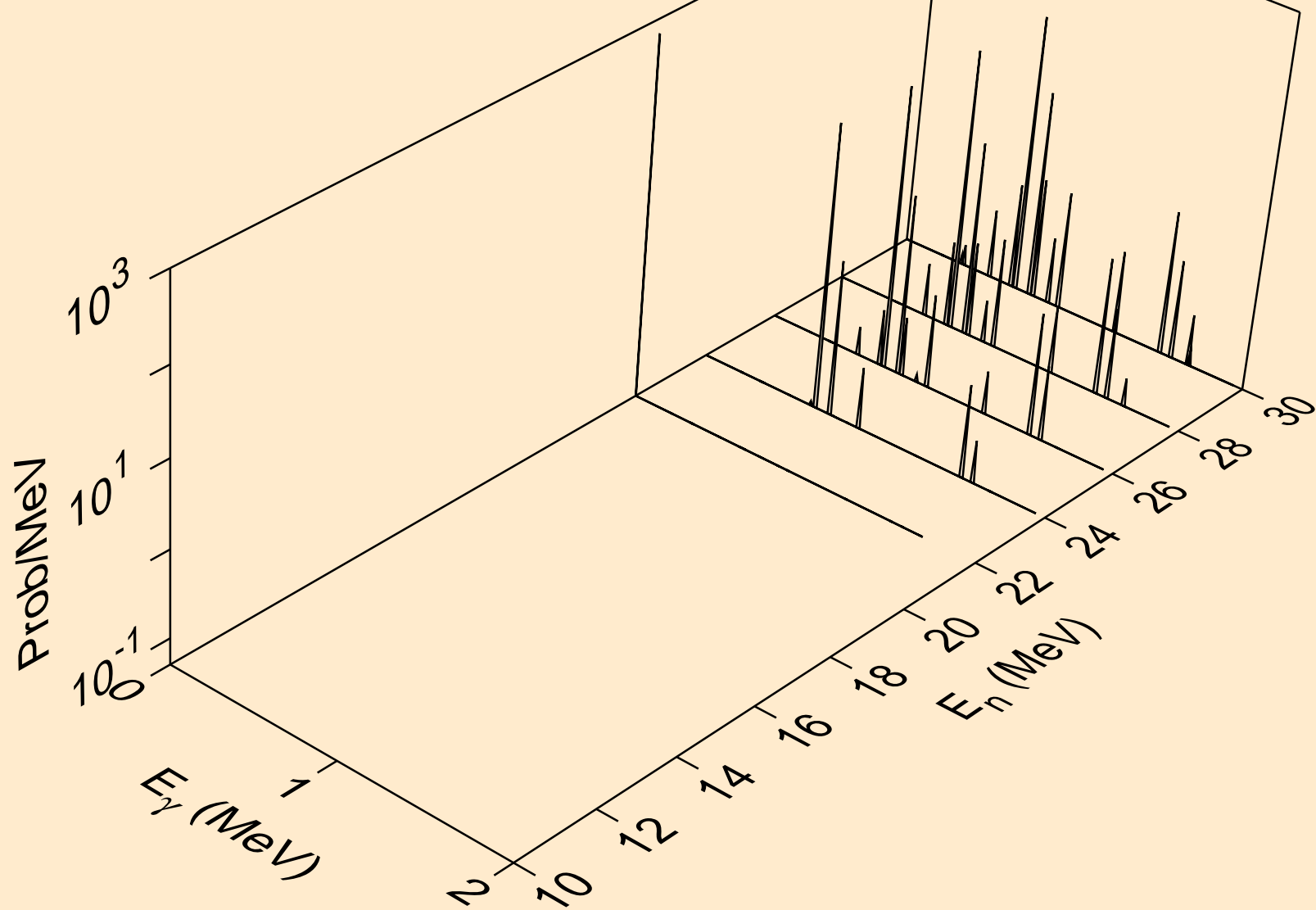




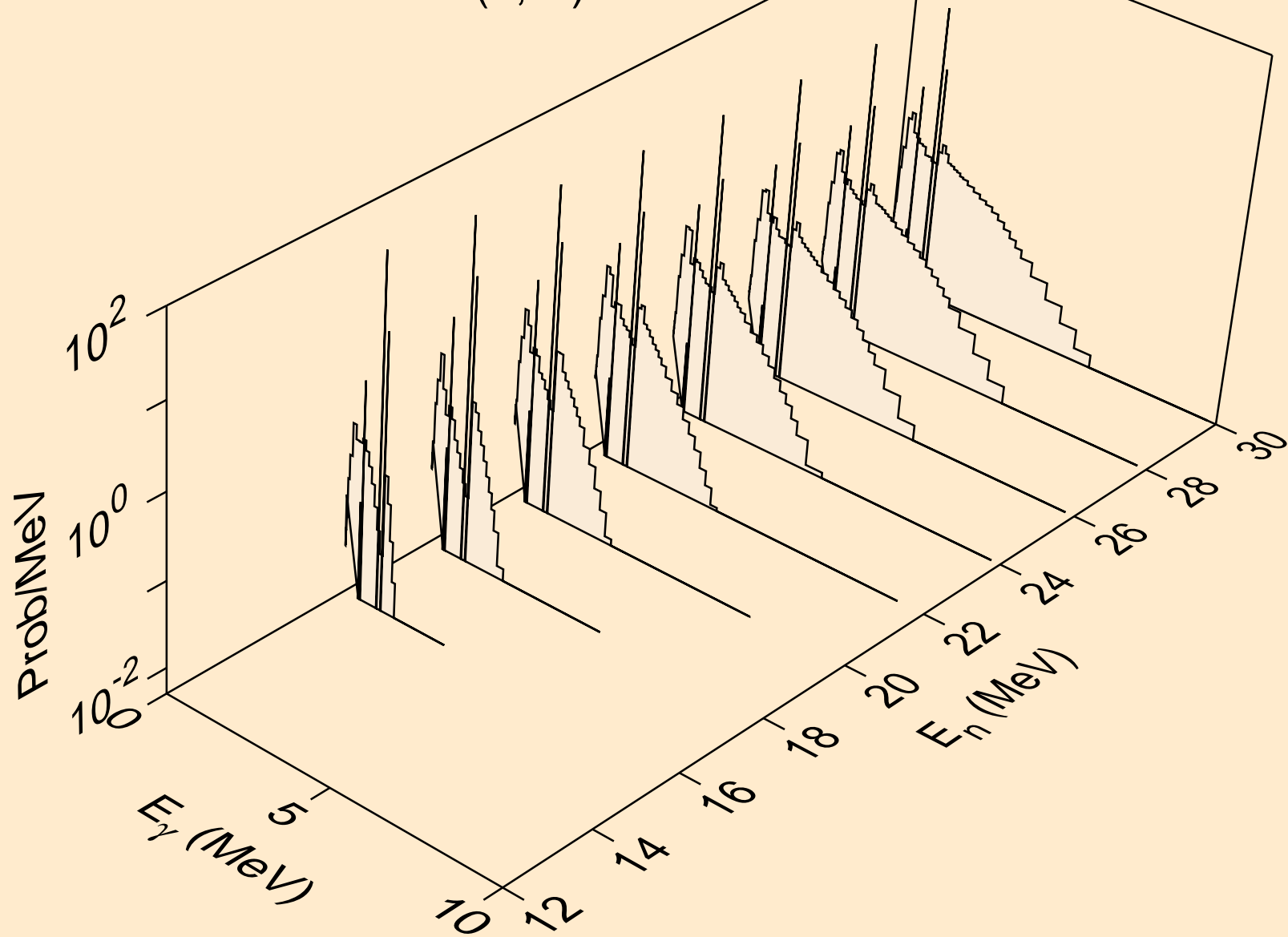
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Photon emission for (n,n\*)2a



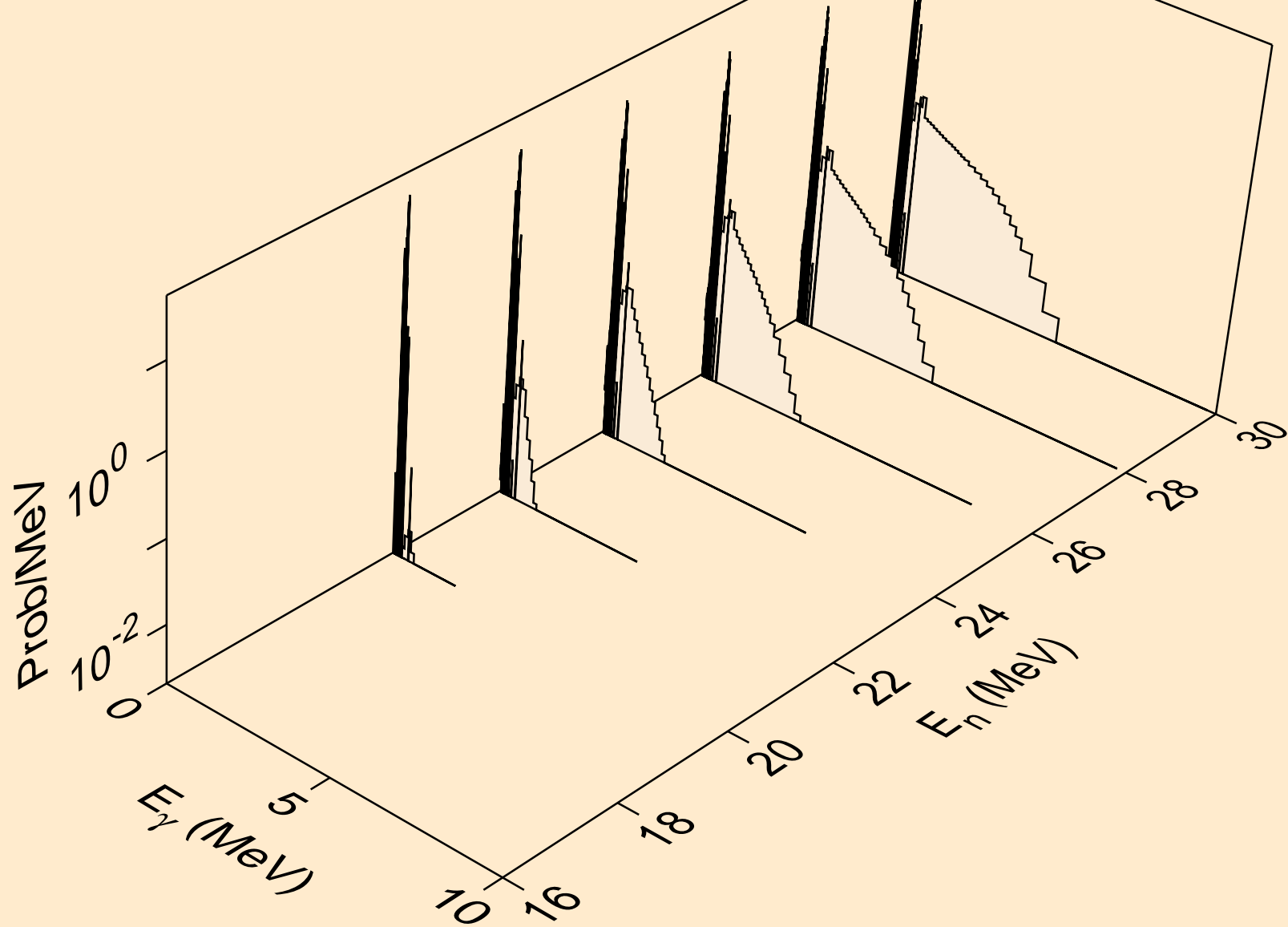
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Photon emission for (n,2n)2a



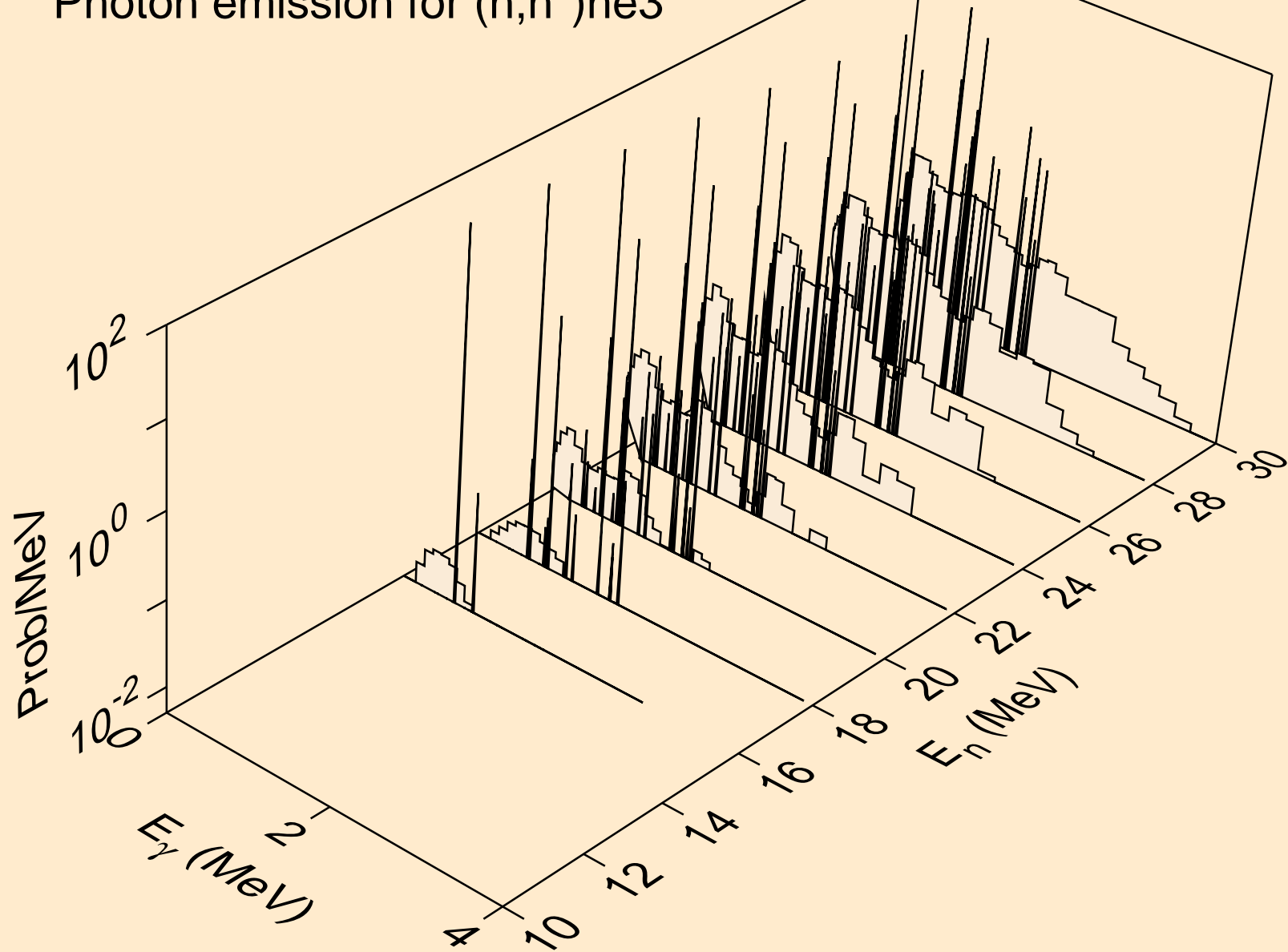
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Photon emission for (n,n\*)d



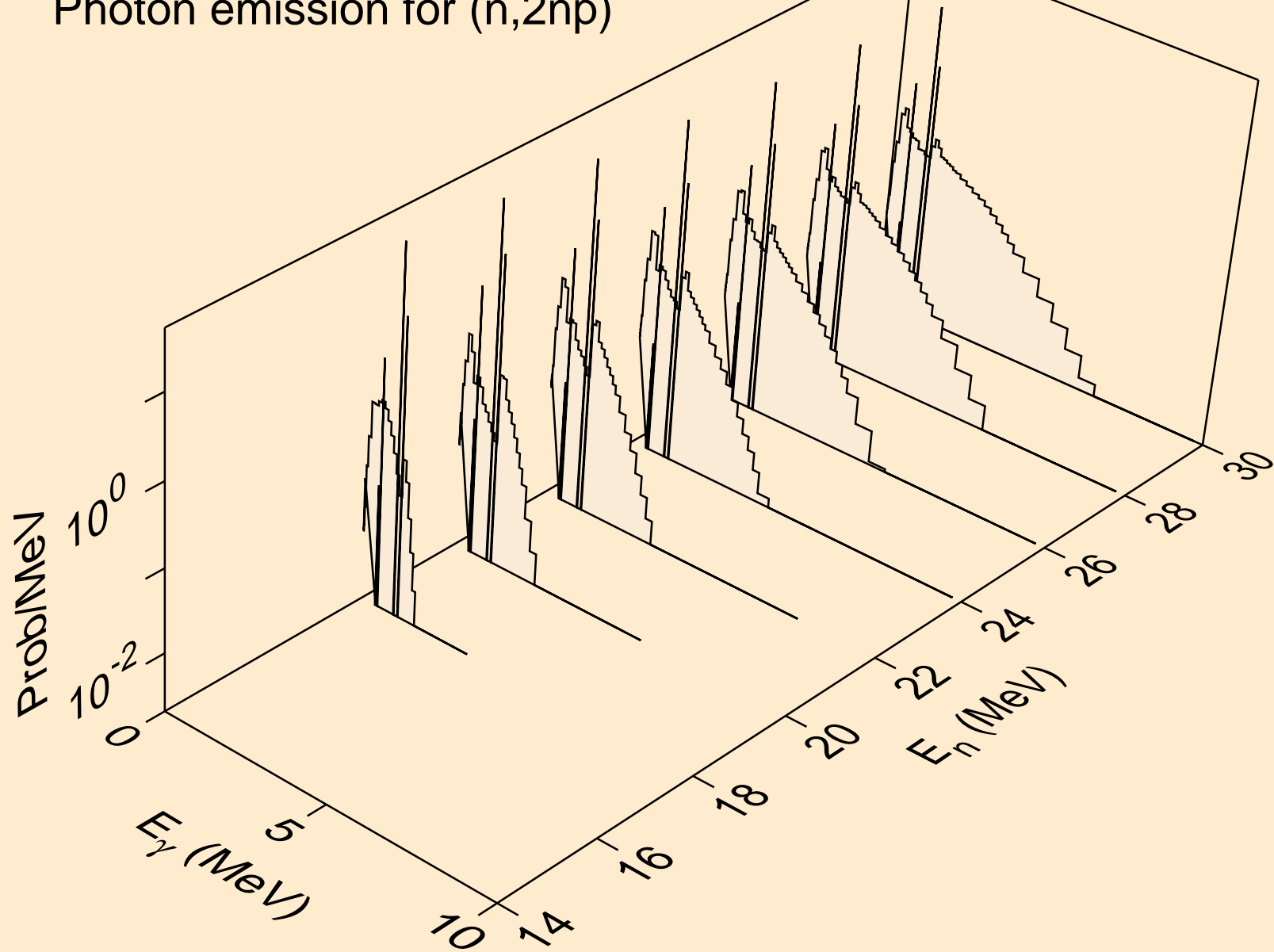
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Photon emission for (n,n\*)t



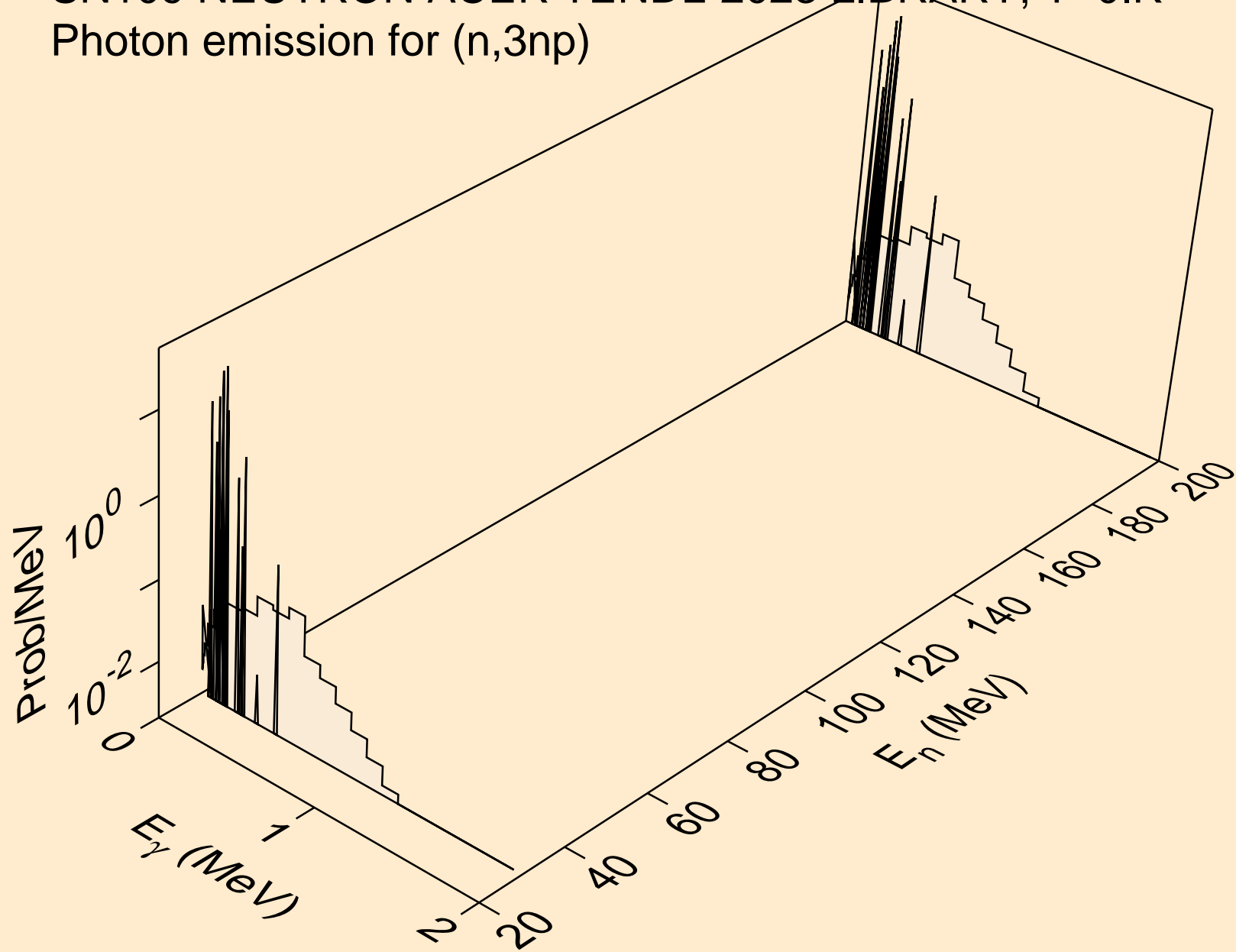
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Photon emission for (n,n\*)he3



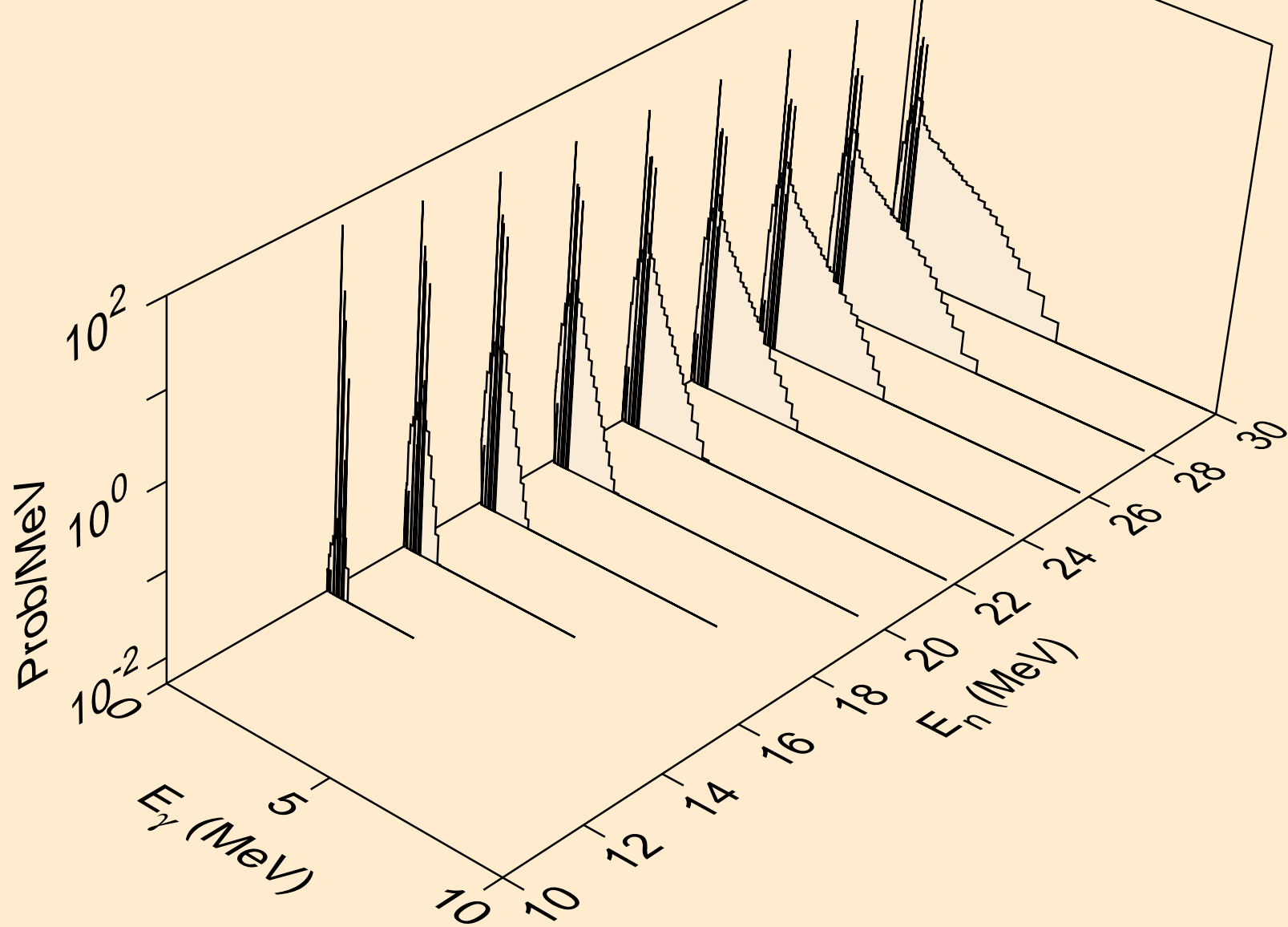
SN109 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2np)



SN109 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,3np)

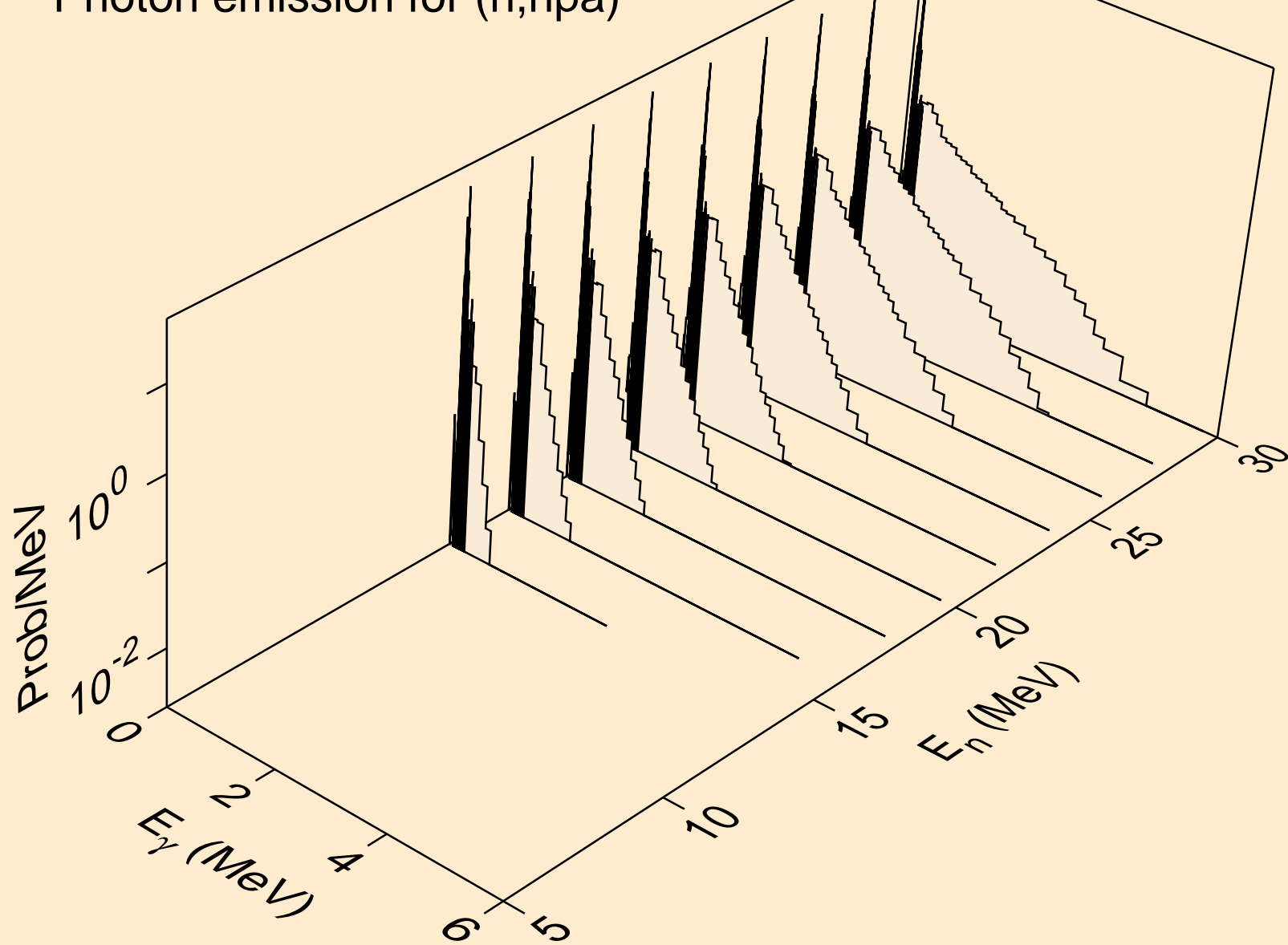


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Photon emission for (n,n2p)

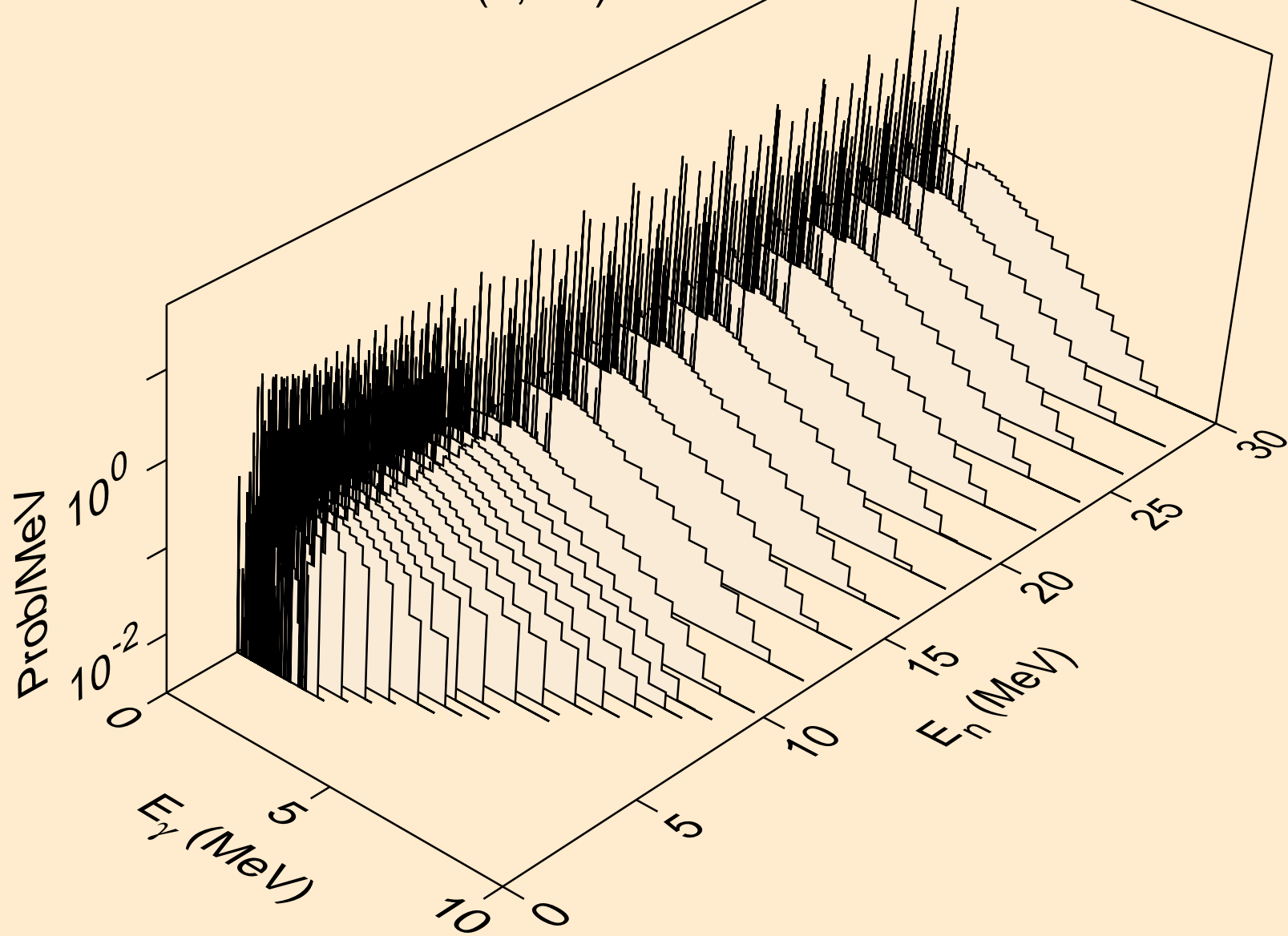




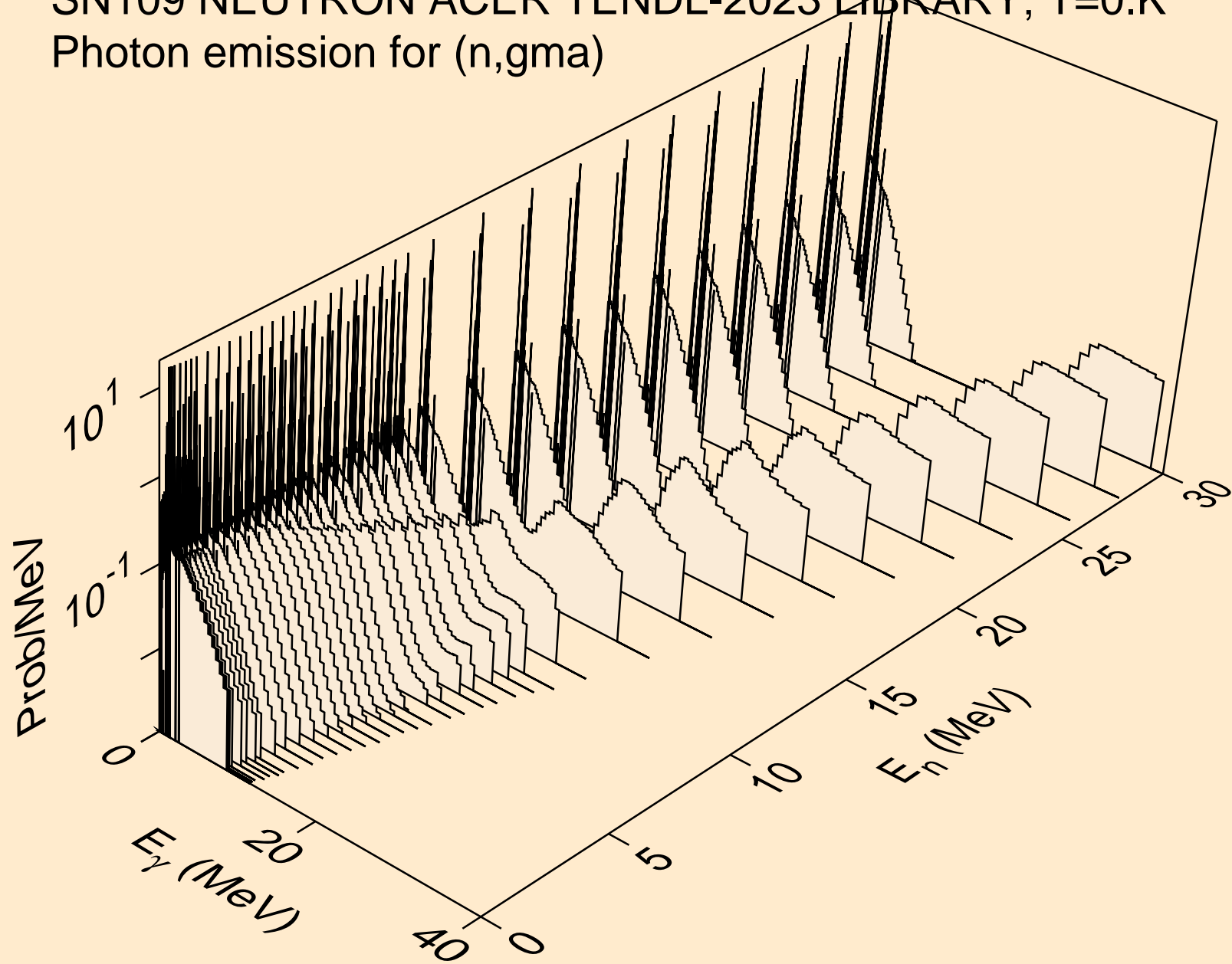
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Photon emission for (n,npa)



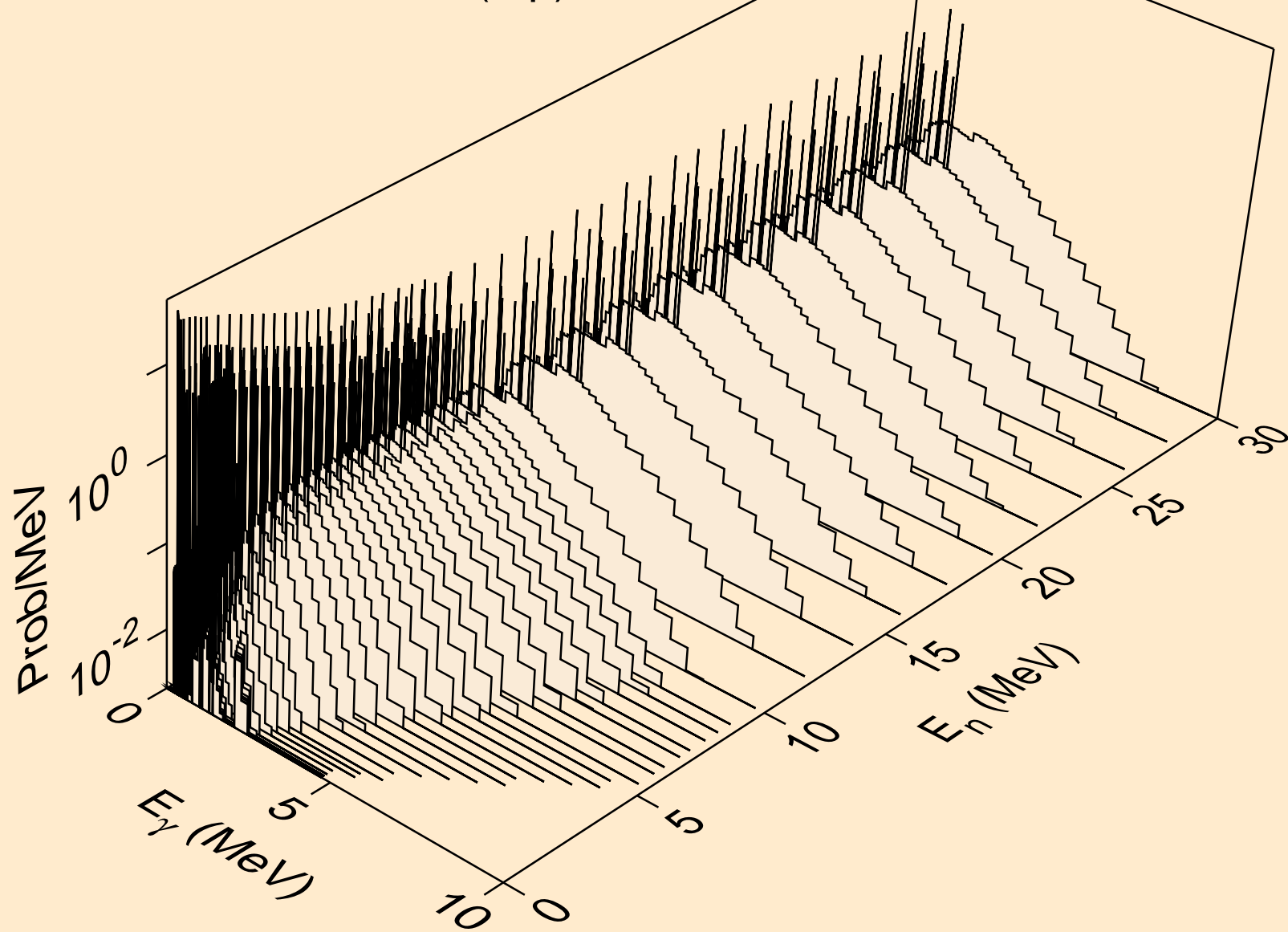
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Photon emission for (n,n\*c)



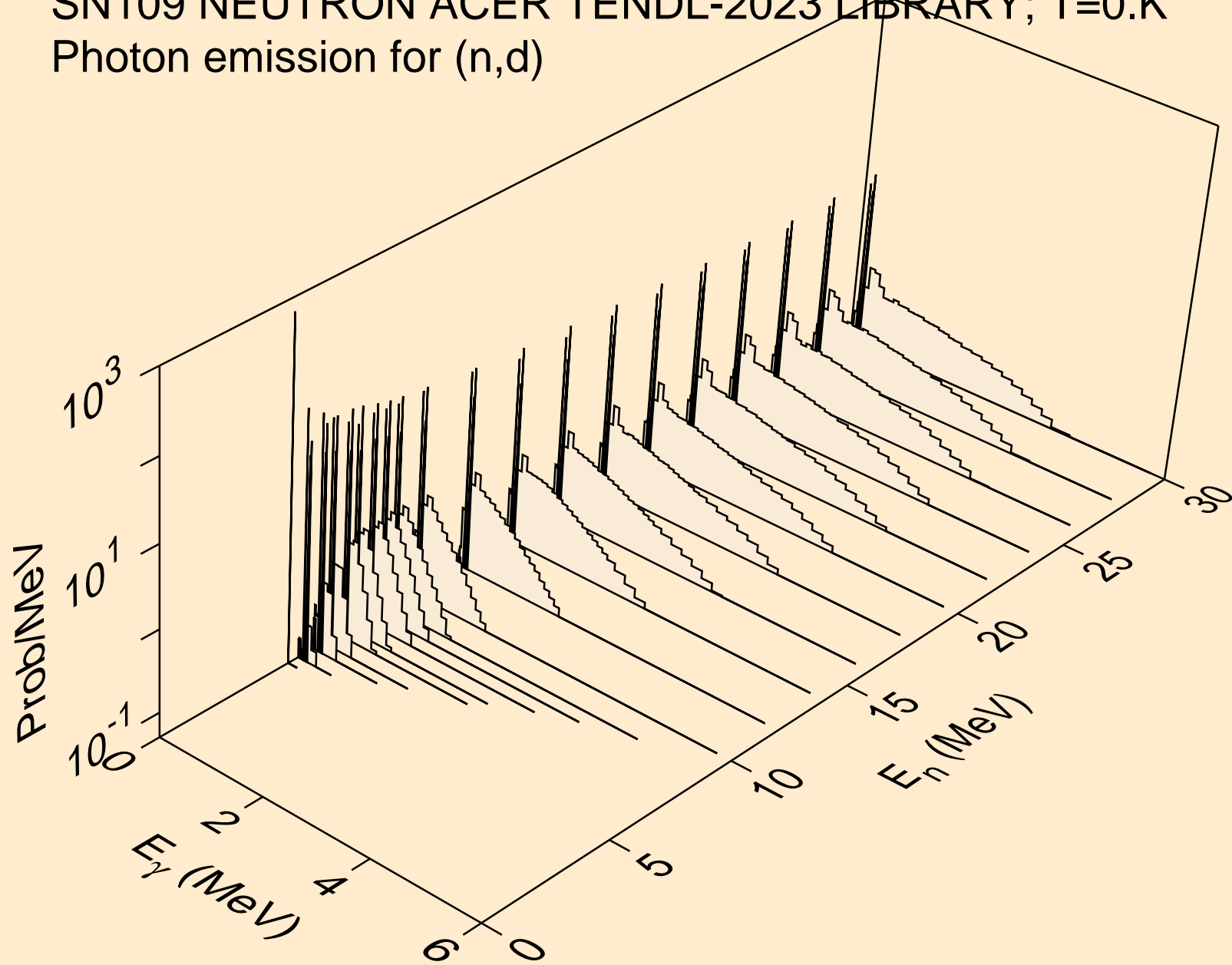
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Photon emission for (n,gma)



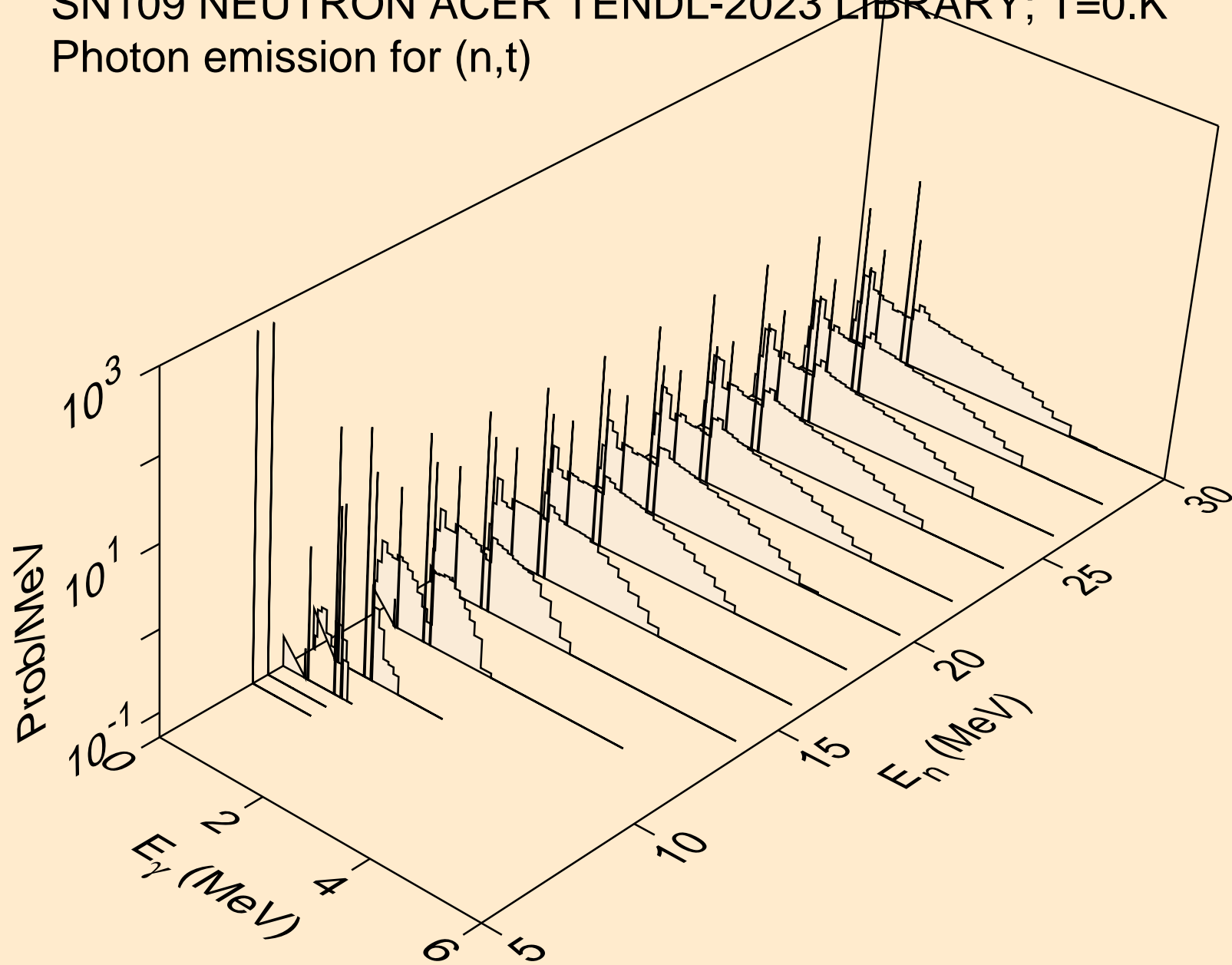
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Photon emission for (n,p)



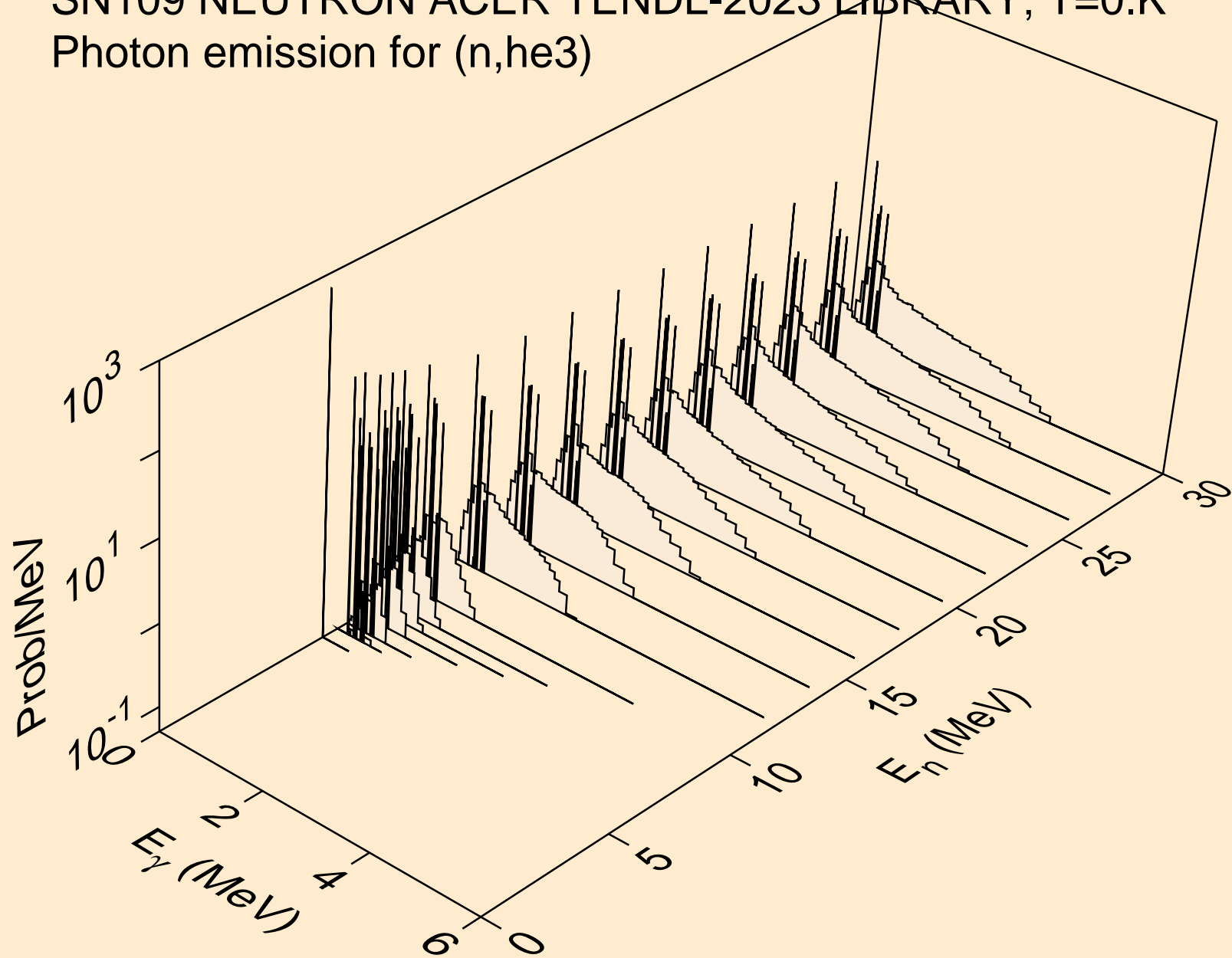
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Photon emission for (n,d)



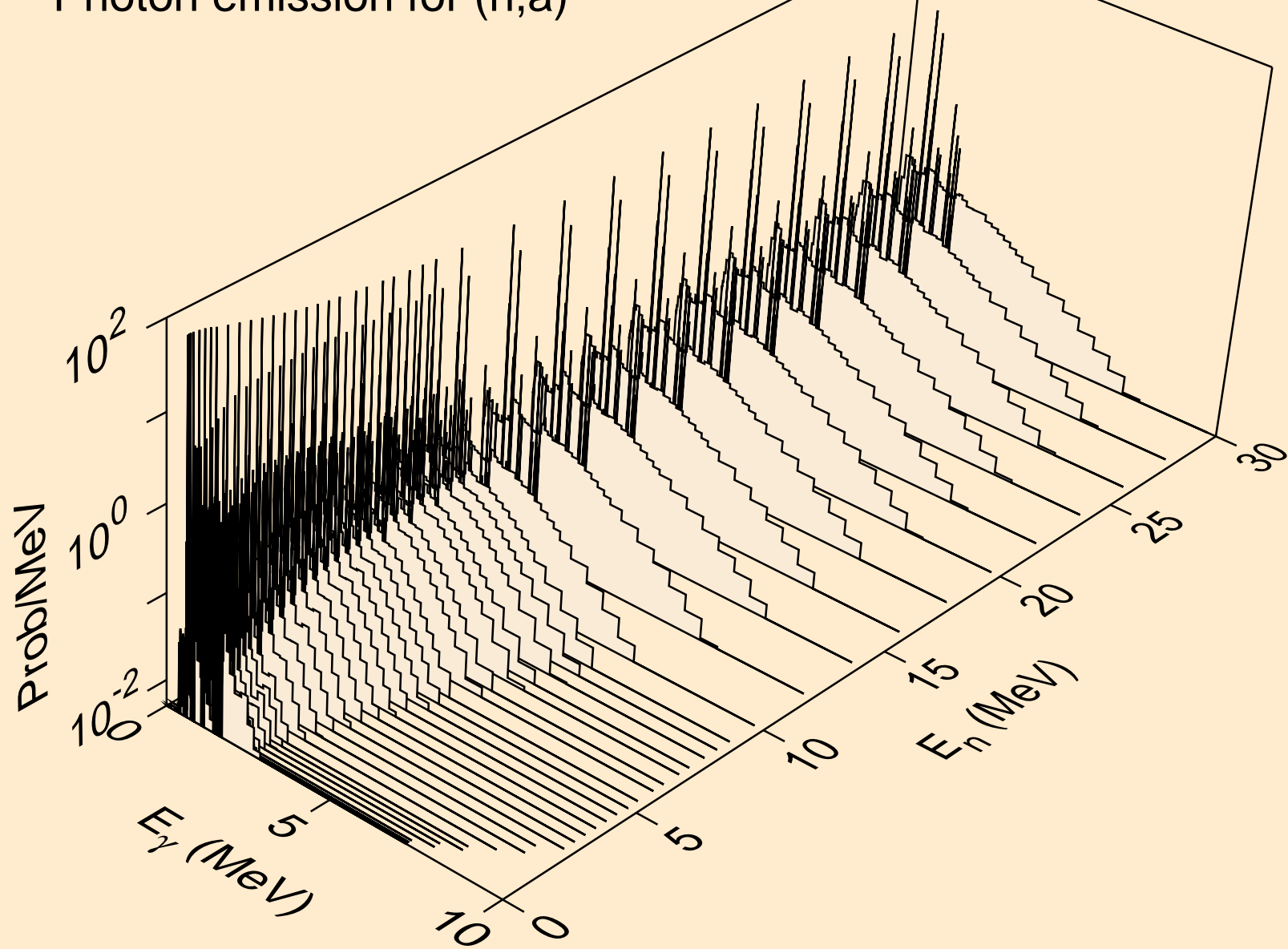
SN109 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,t)



SN109 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,he3)

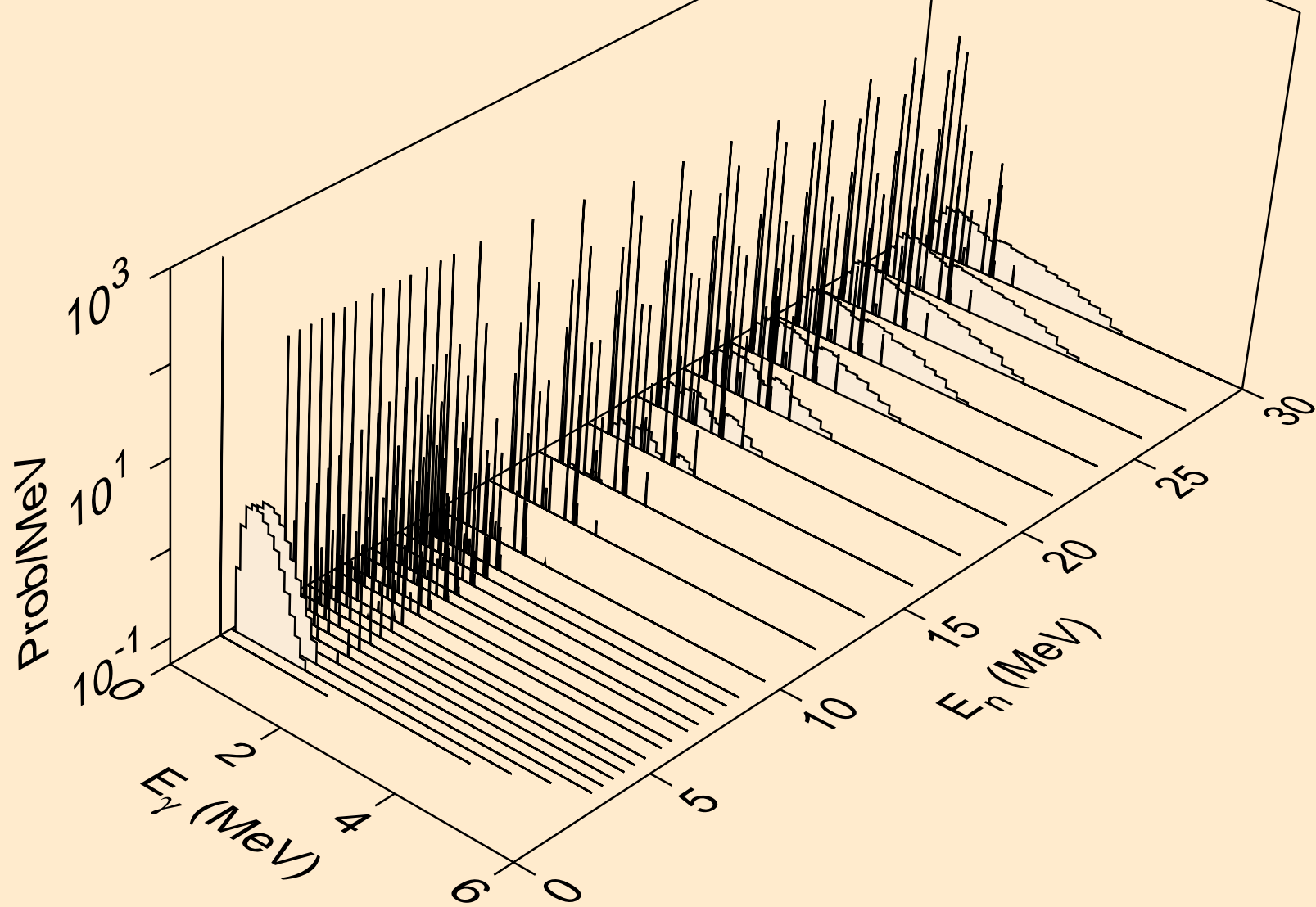


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Photon emission for (n,a)

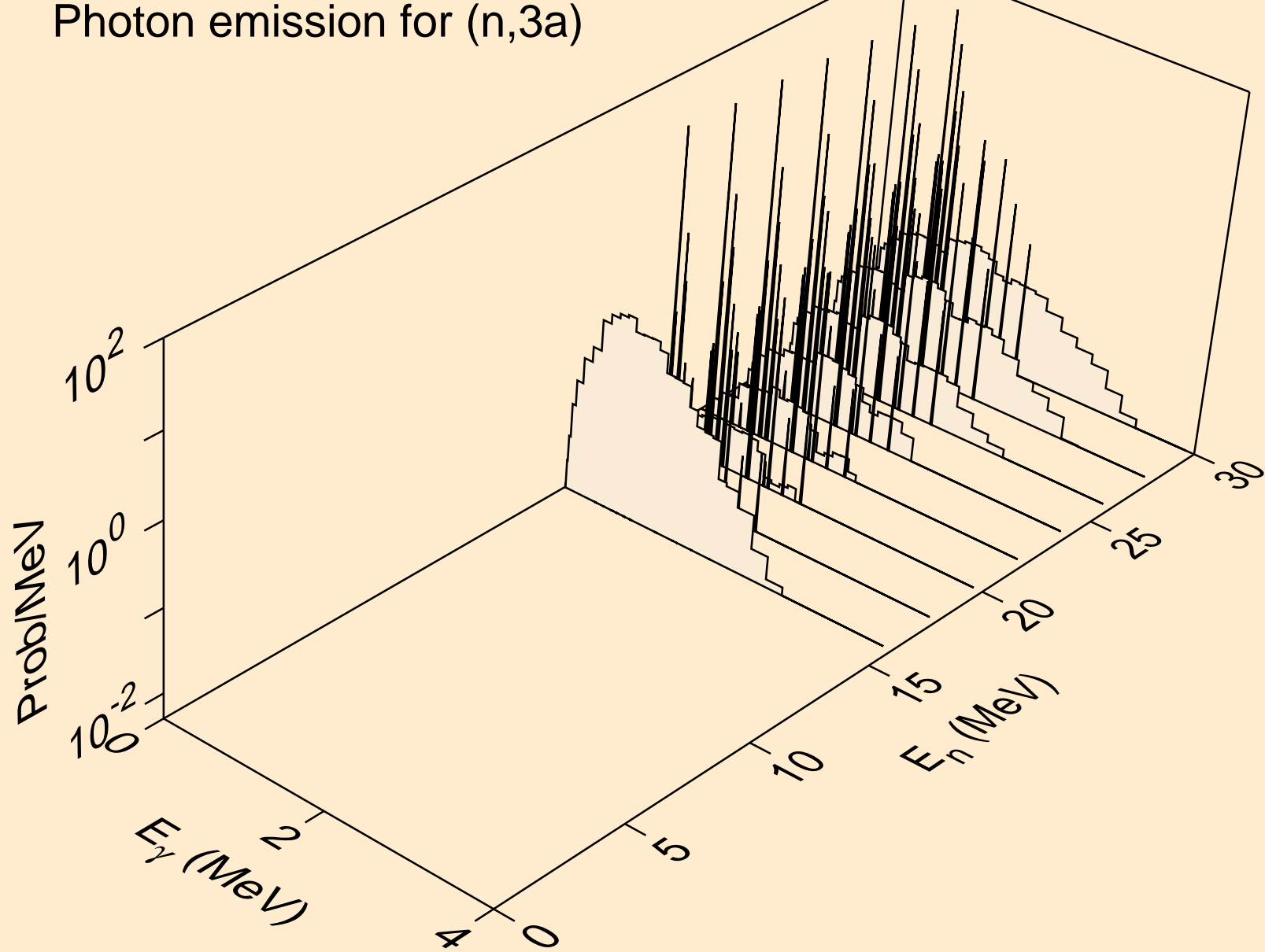




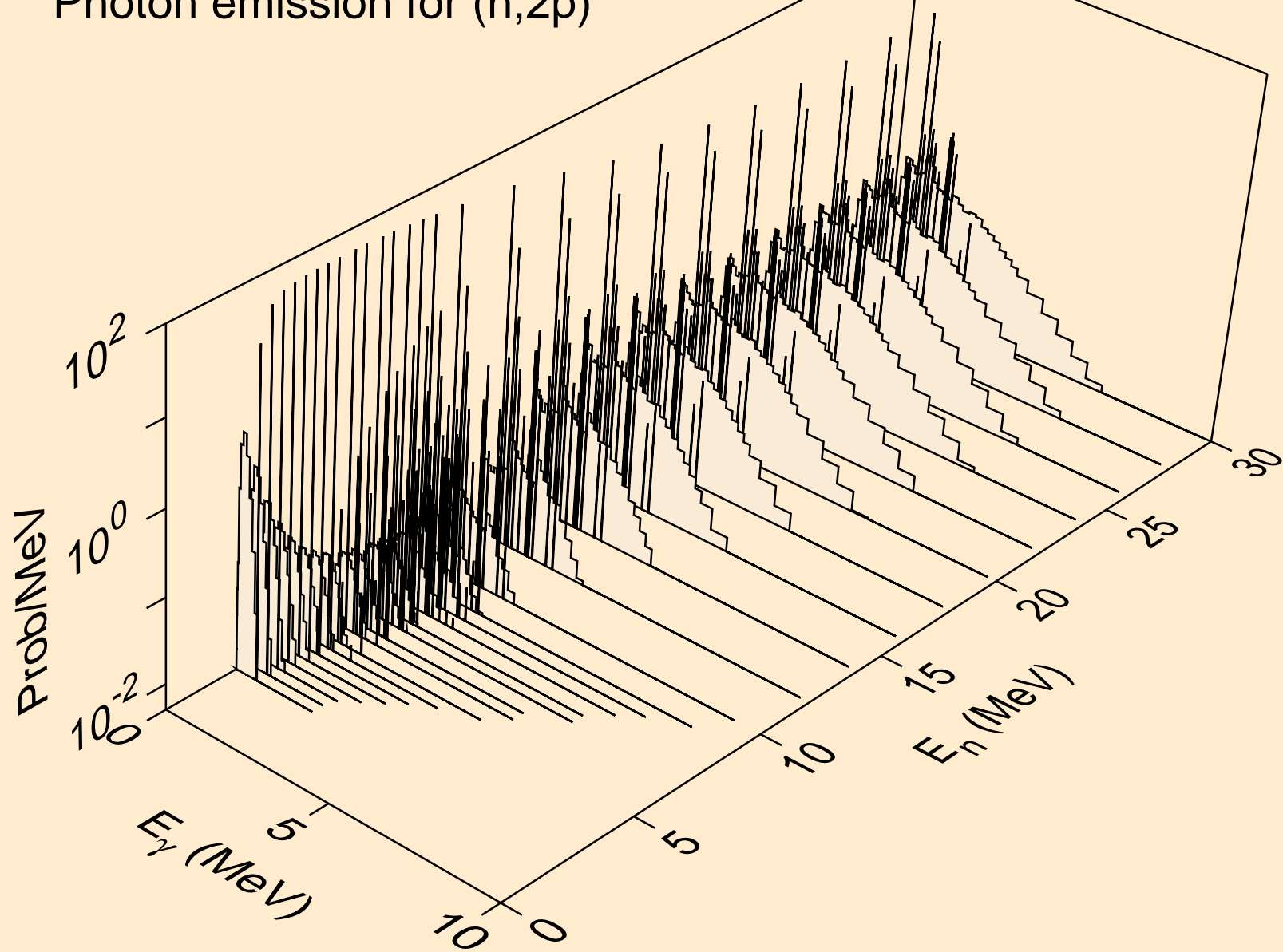
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Photon emission for (n,2a)



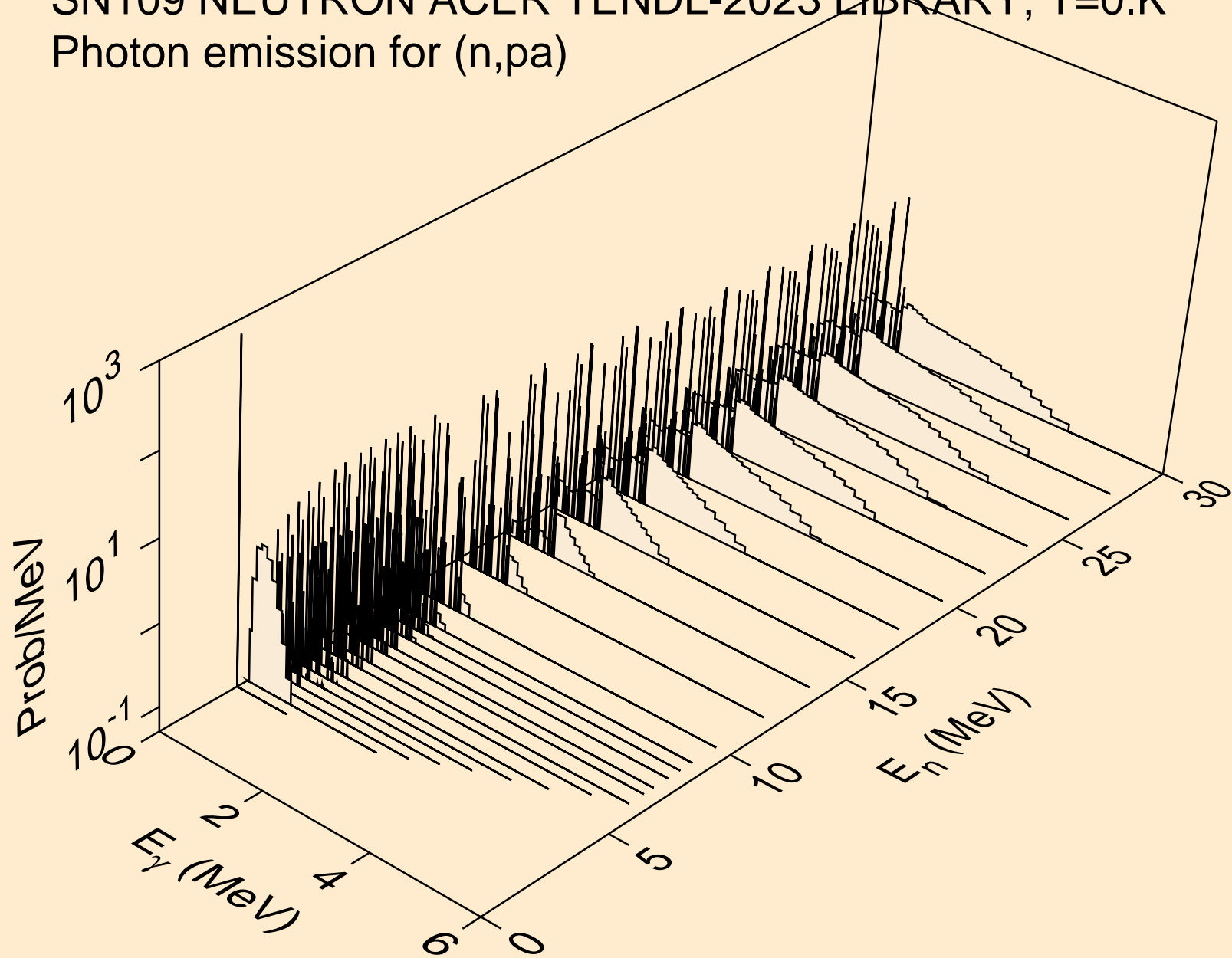
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Photon emission for (n,3a)



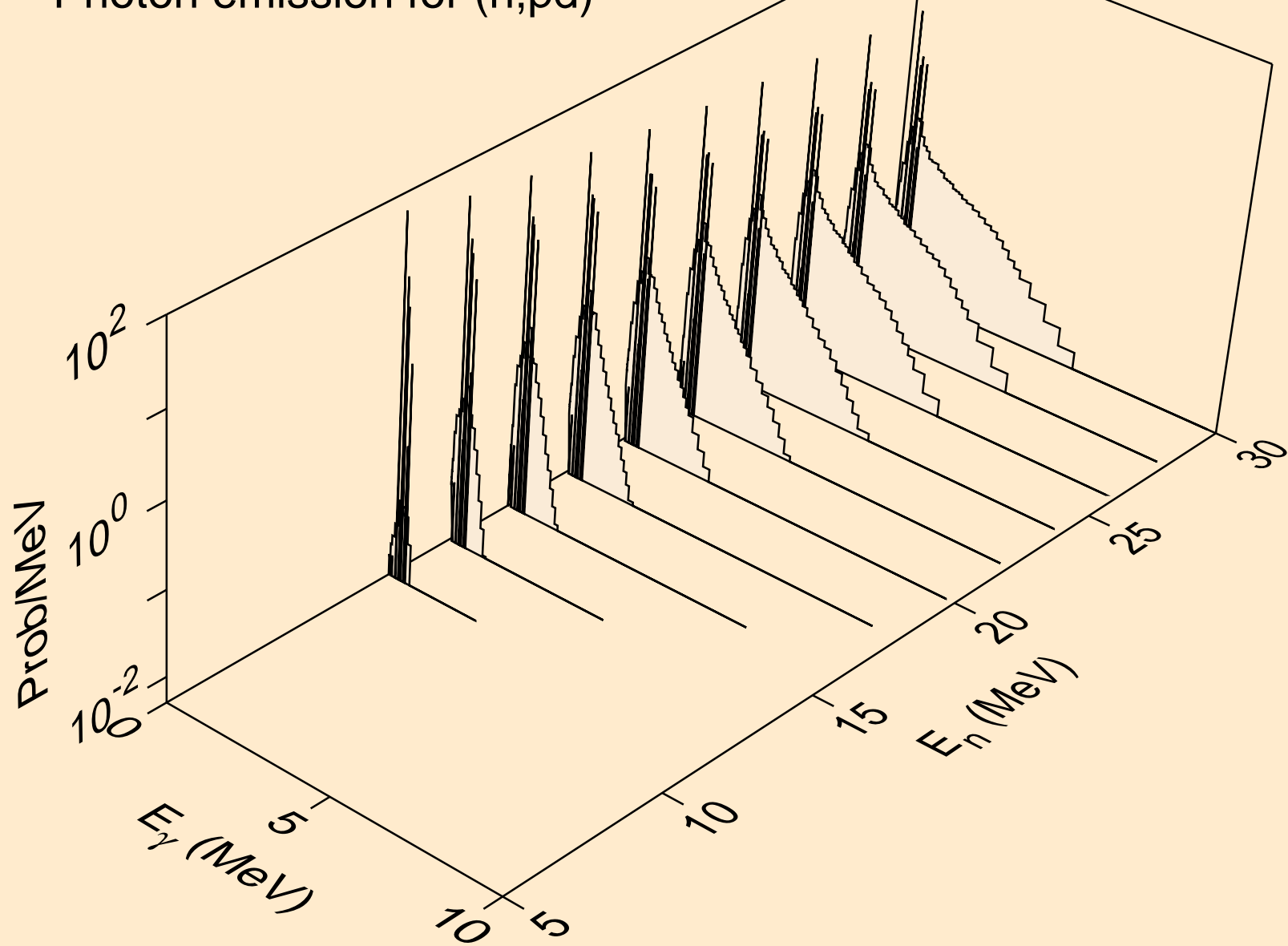
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Photon emission for (n,2p)



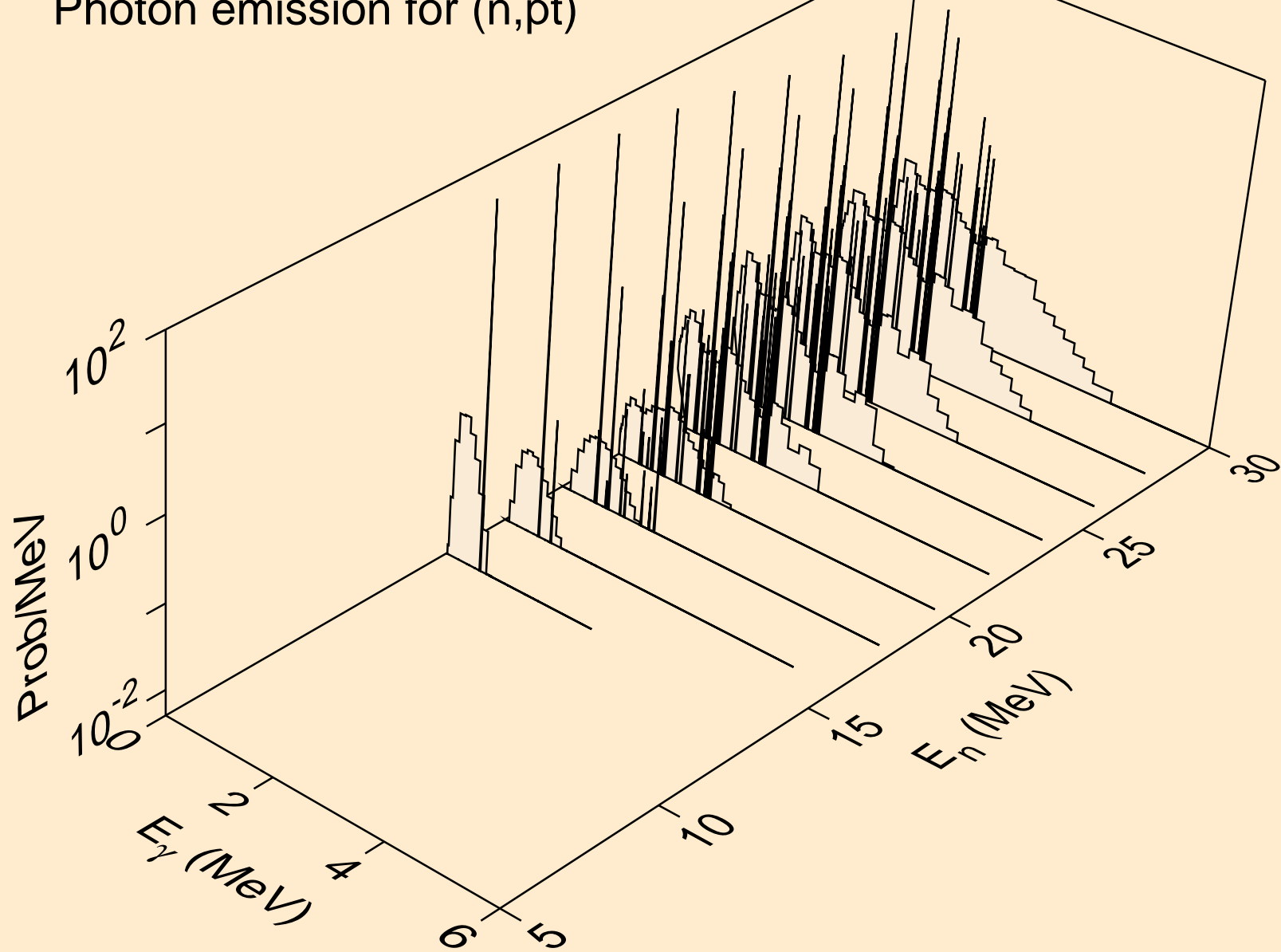
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Photon emission for (n,p $\alpha$ )



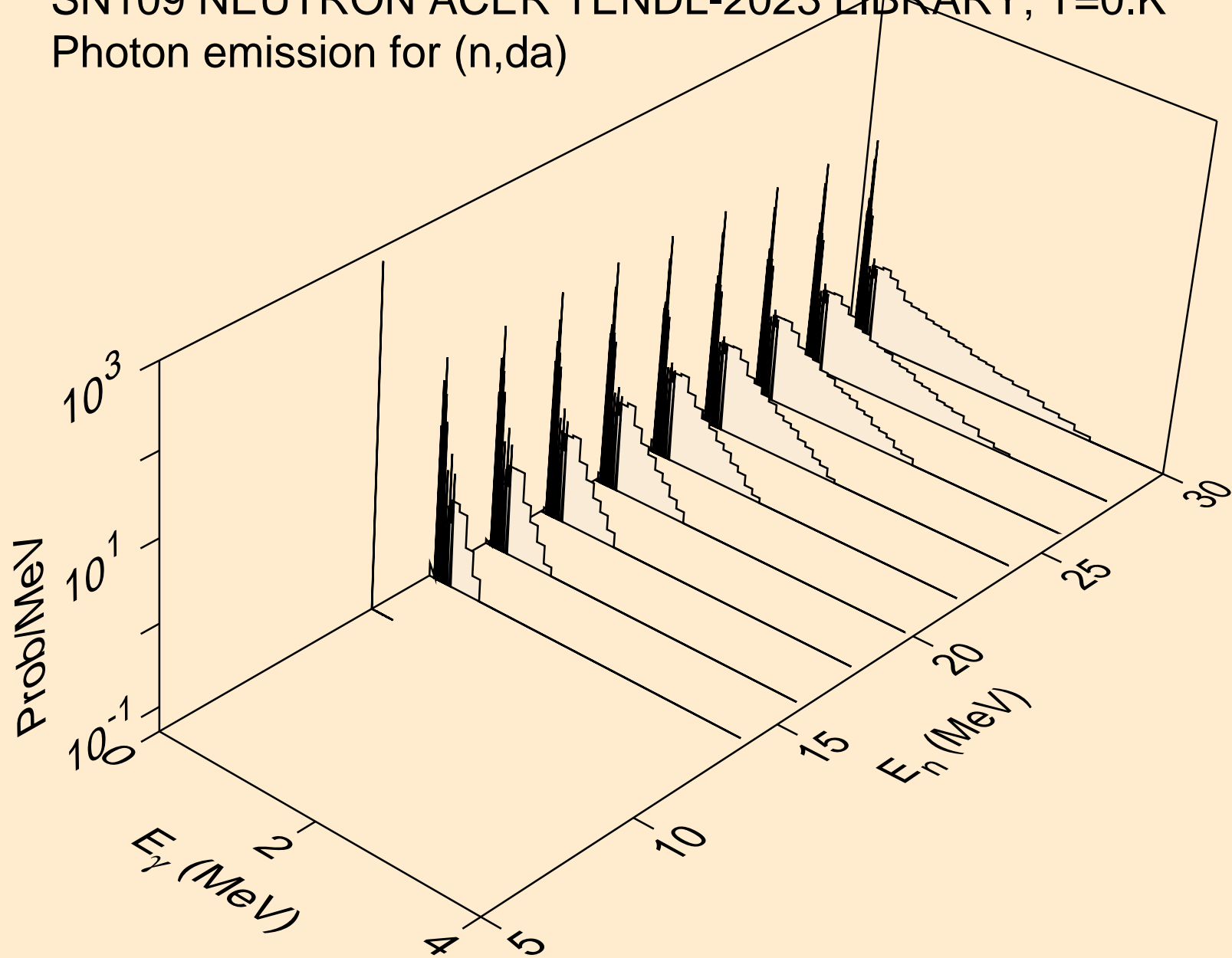
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Photon emission for (n,pd)



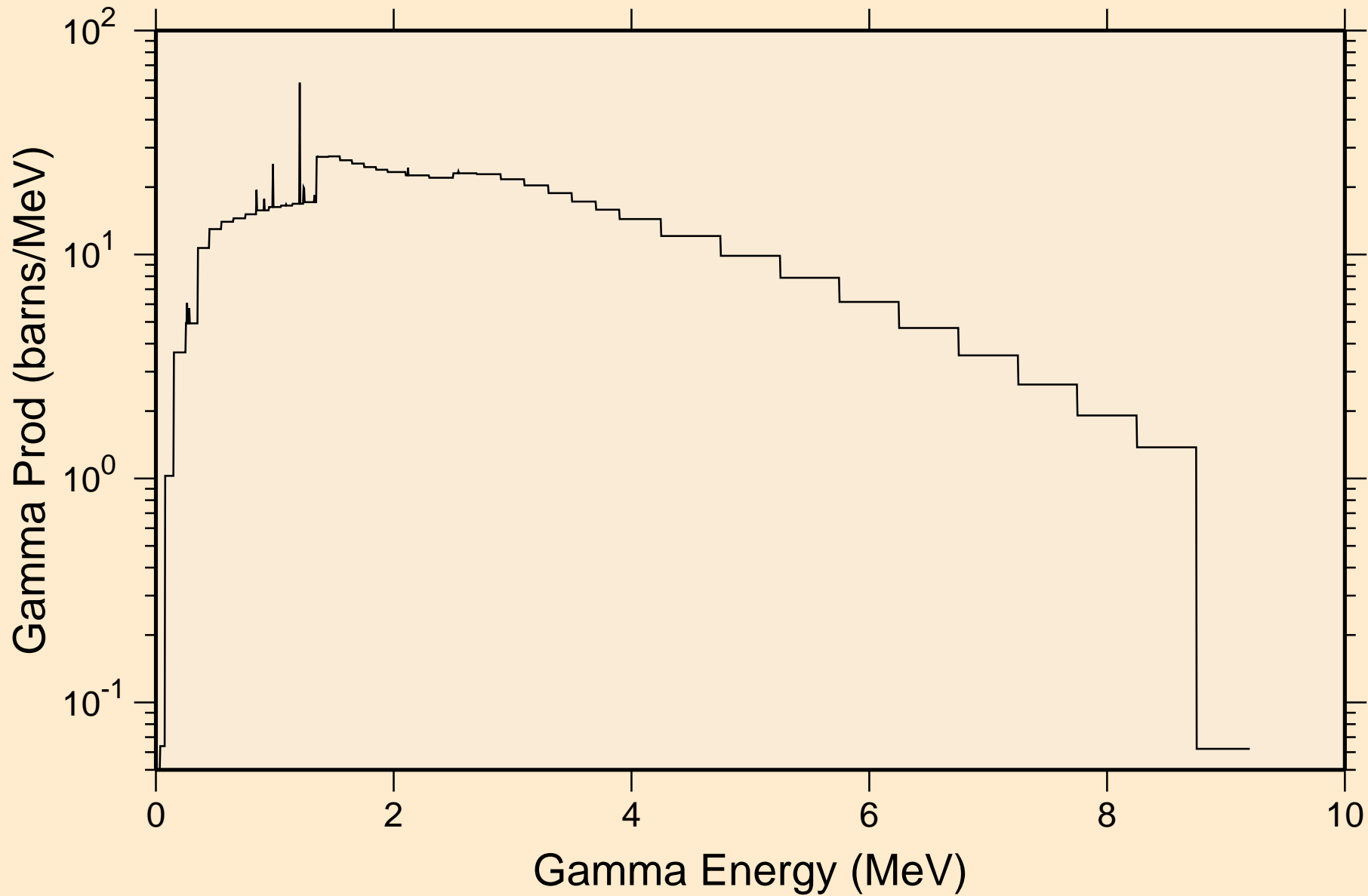
SN109 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,pt)



SN109 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,da)

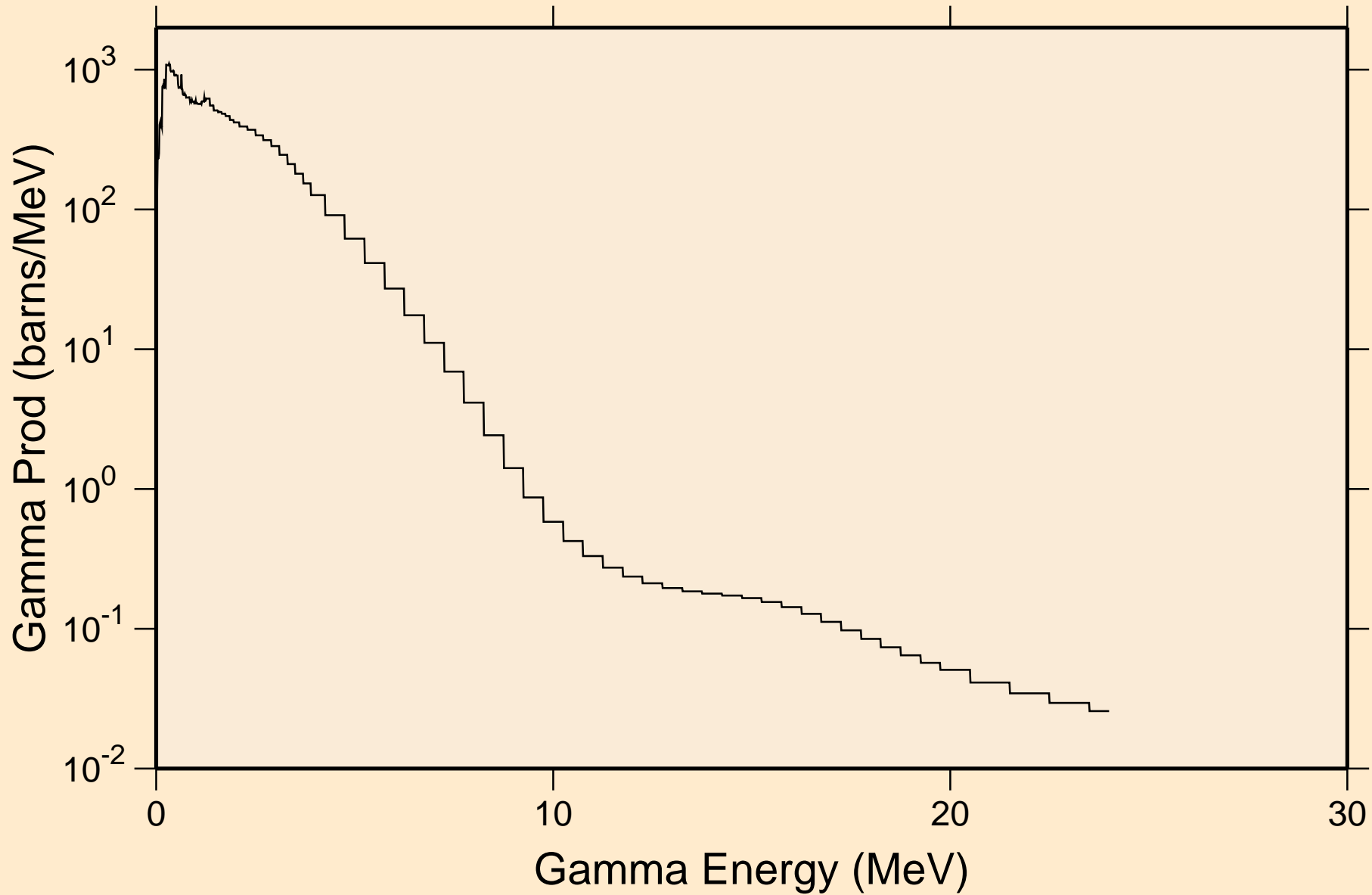


SN109 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
thermal capture photon spectrum



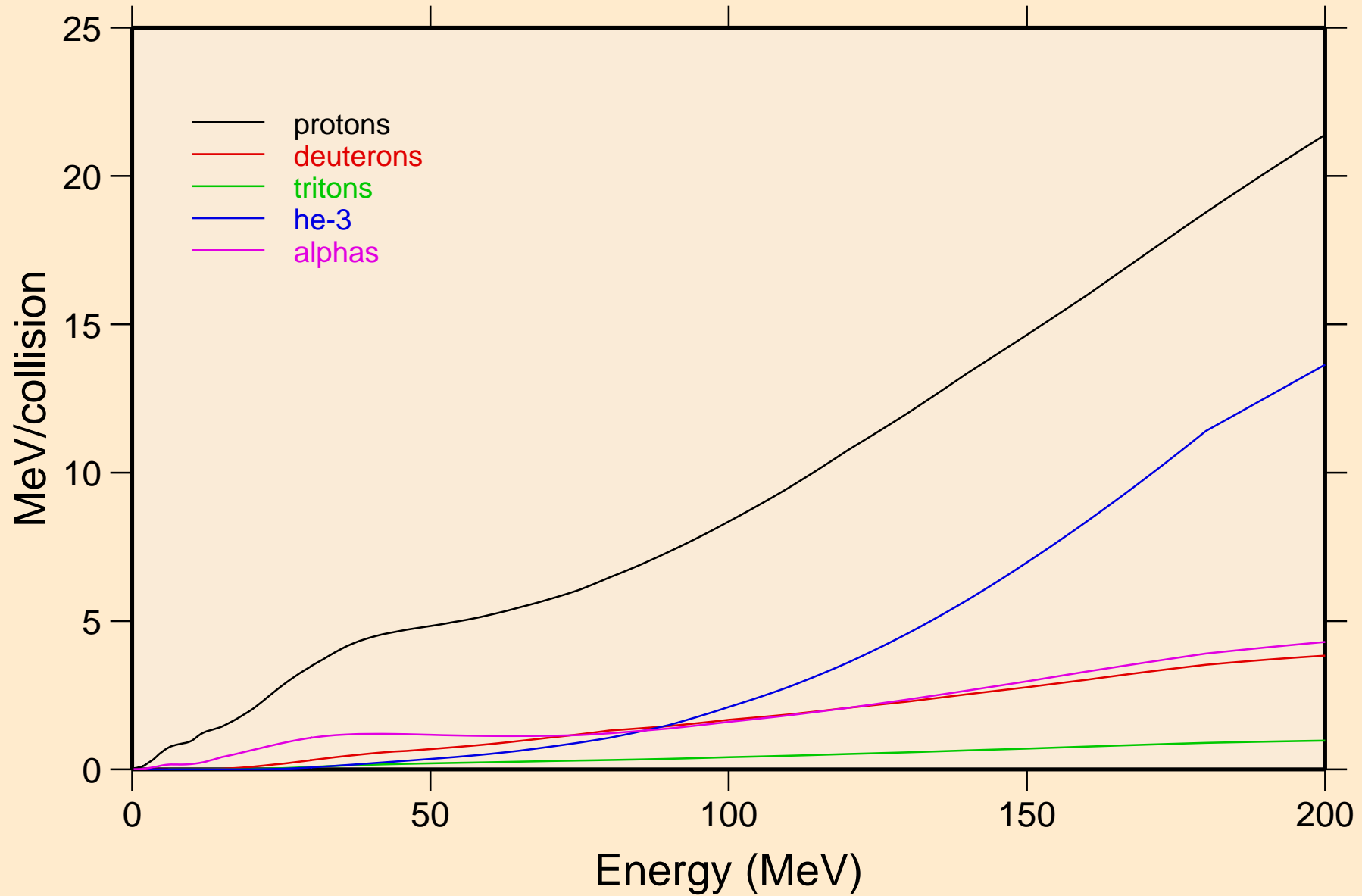


SN109 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
14 MeV photon spectrum



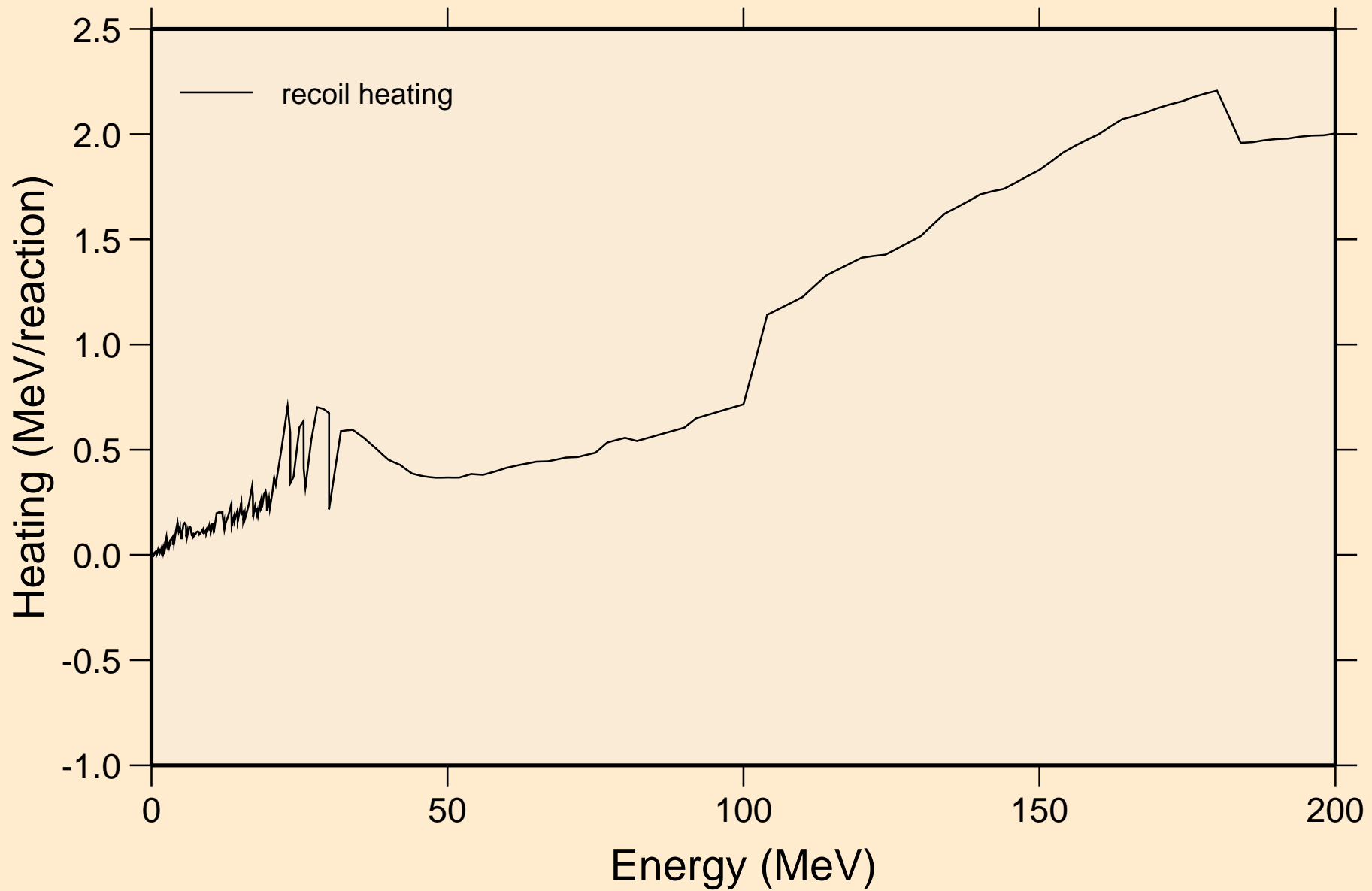
# SN109 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

## Particle heating contributions



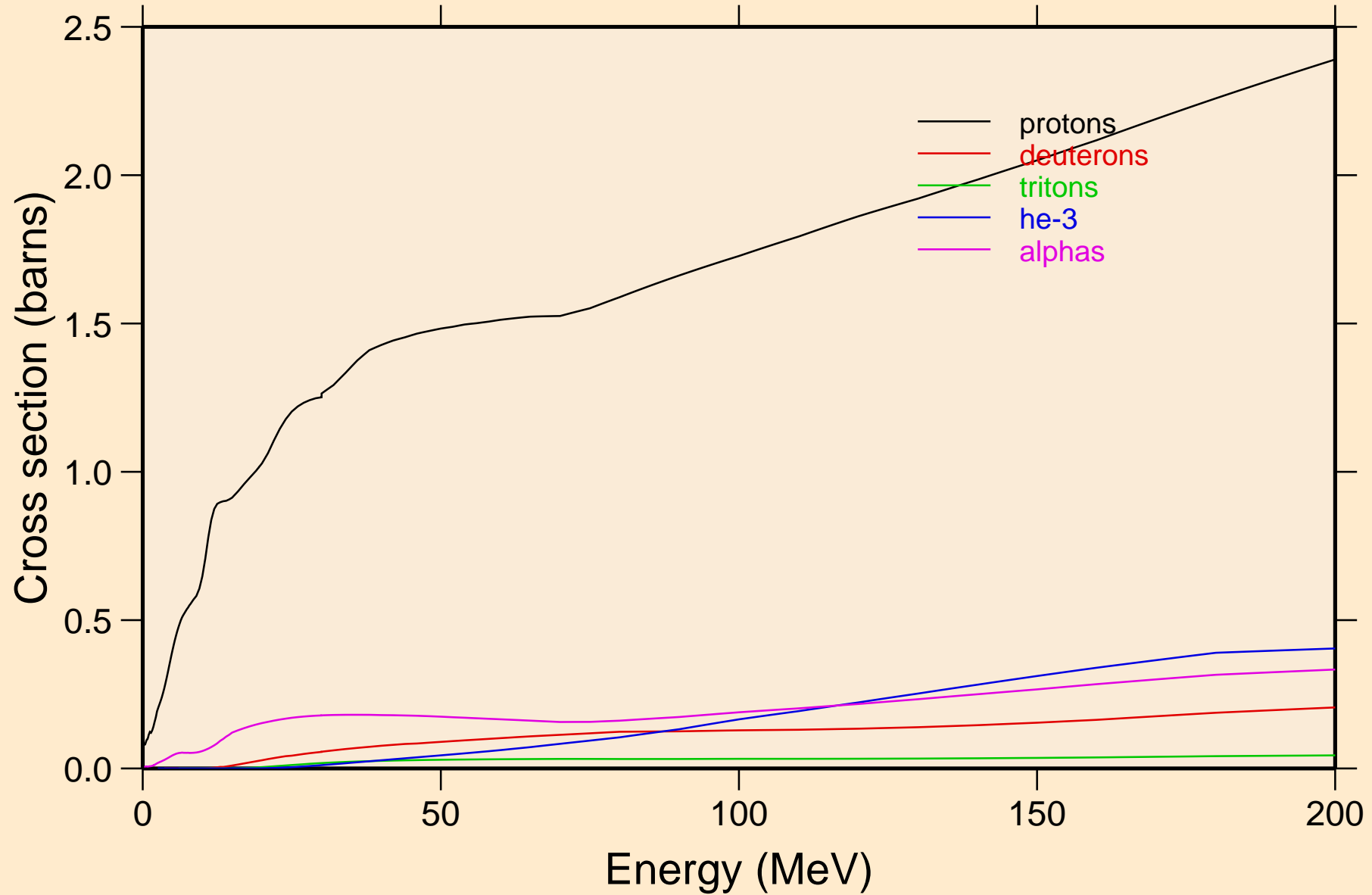
# SN109 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

## Recoil Heating

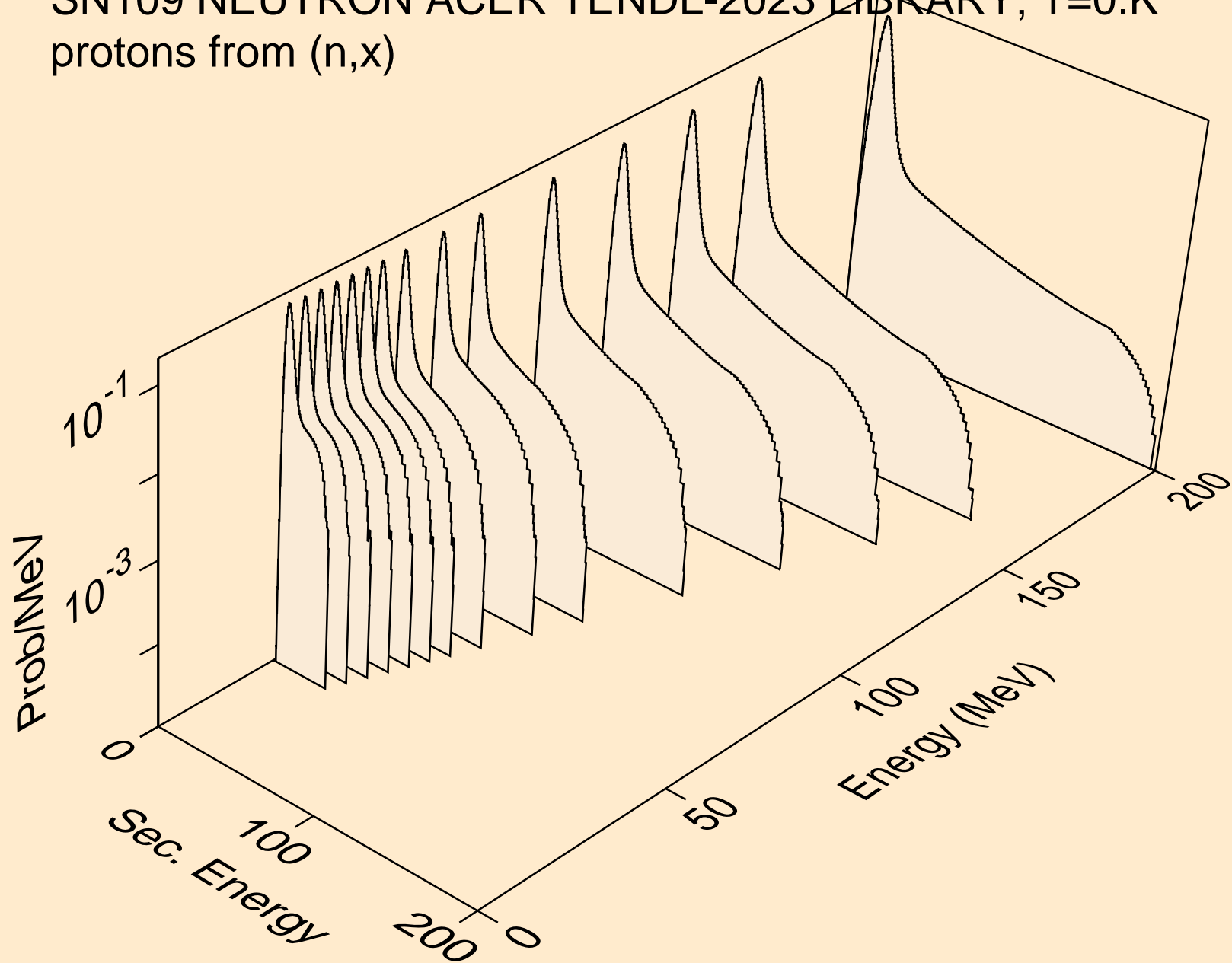


# SN109 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

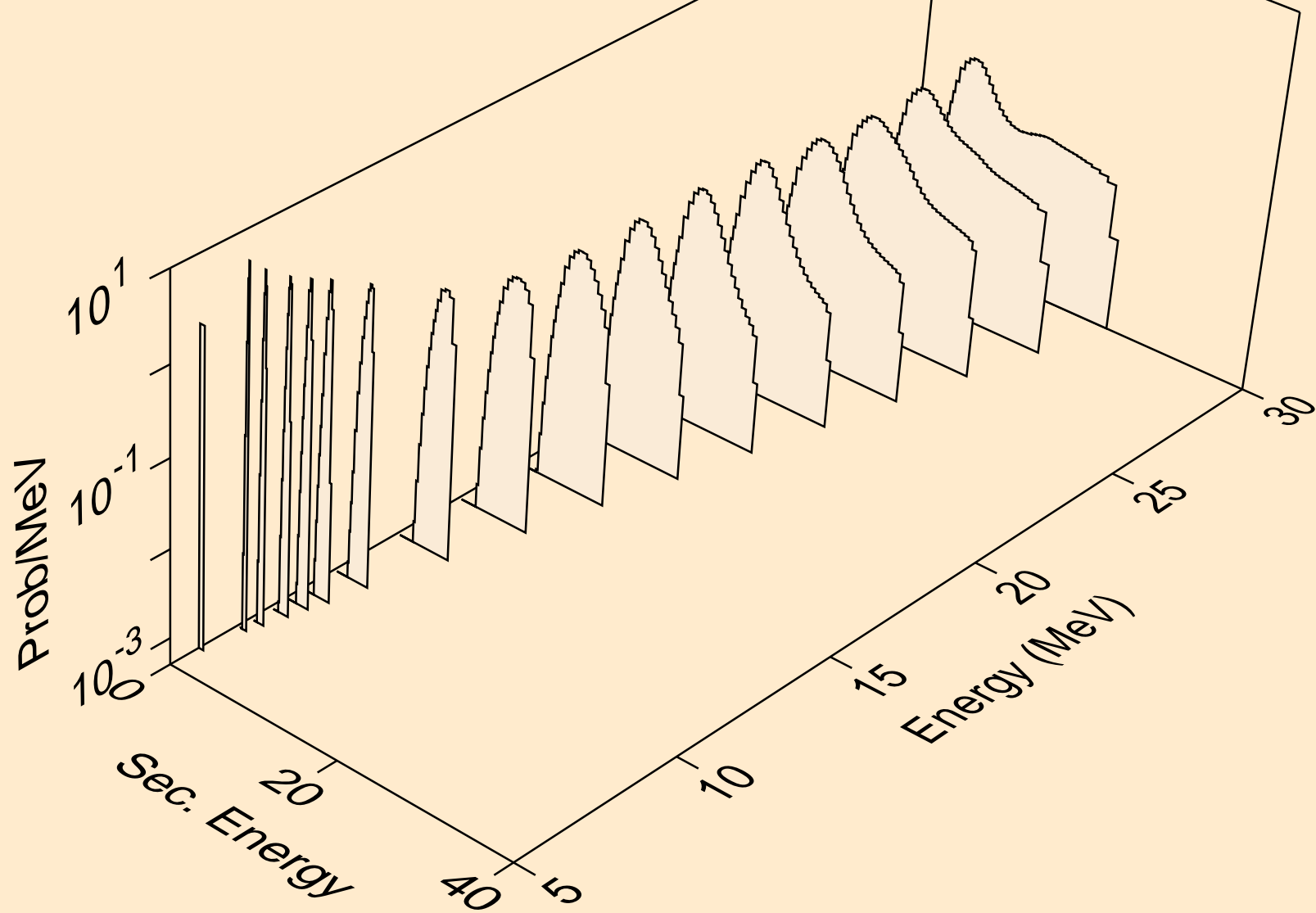
## Particle production cross sections



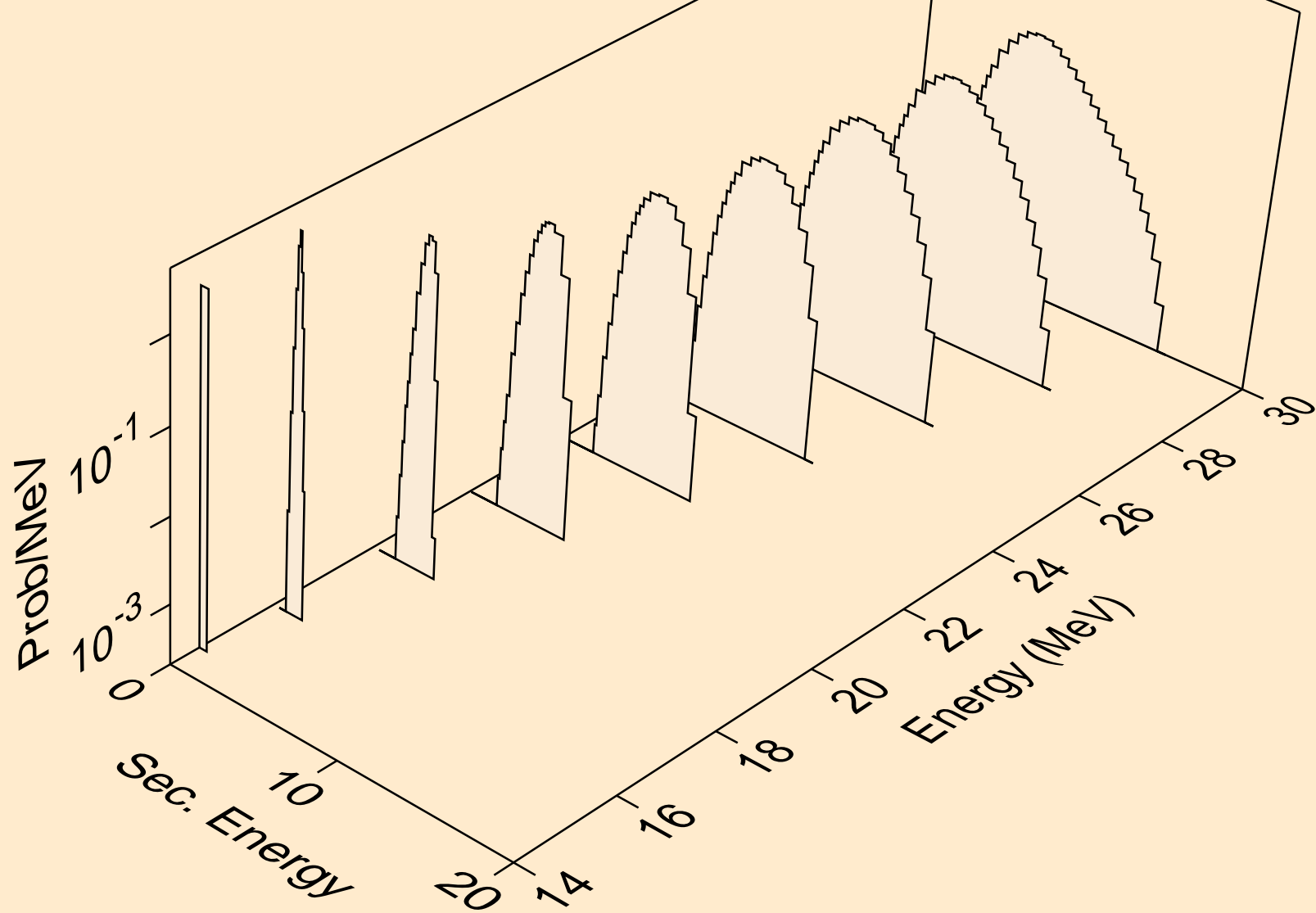
SN109 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
protons from (n,x)



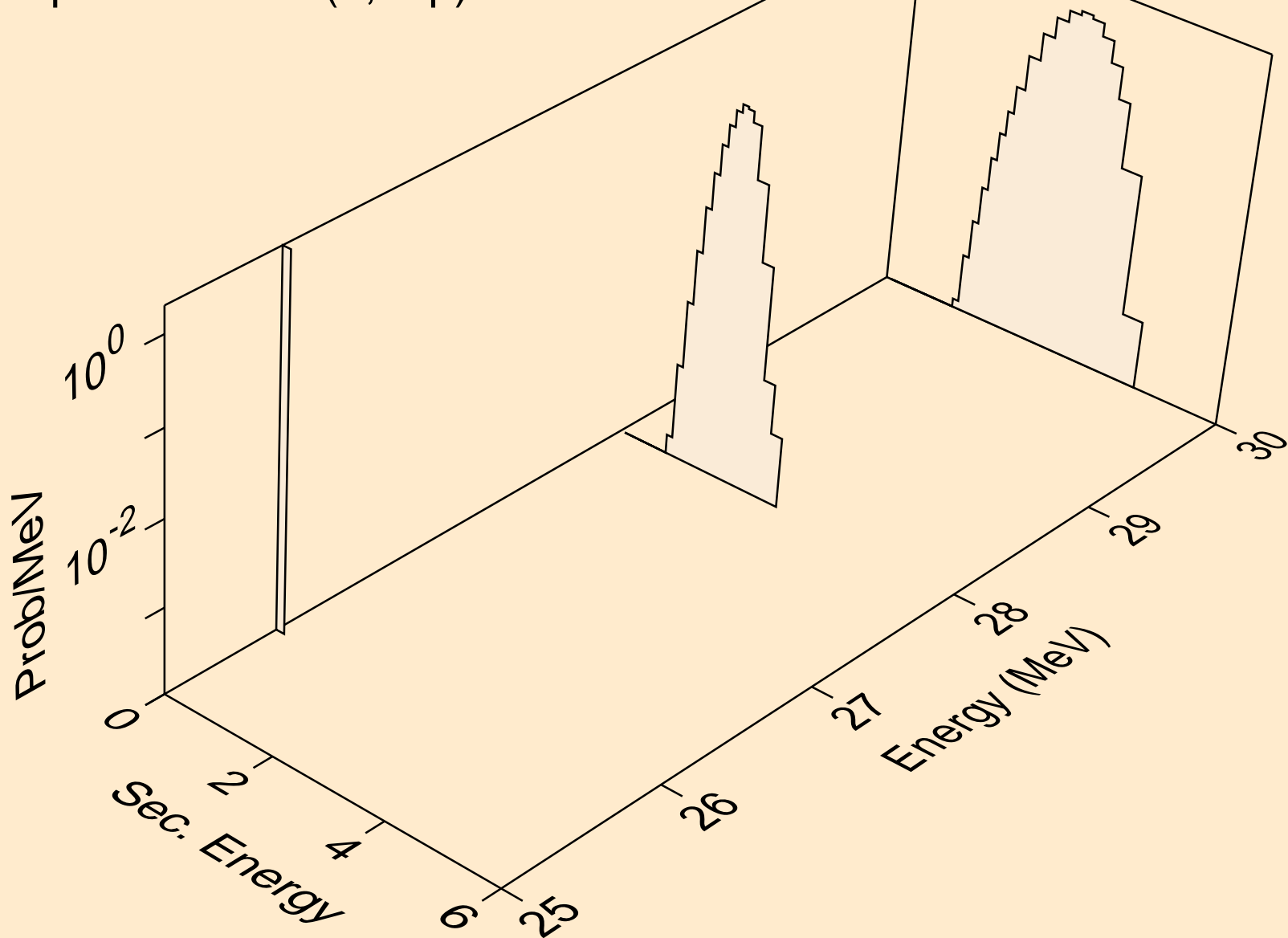
SN109 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
protons from (n,n\*)p



SN109 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
protons from (n,2np)

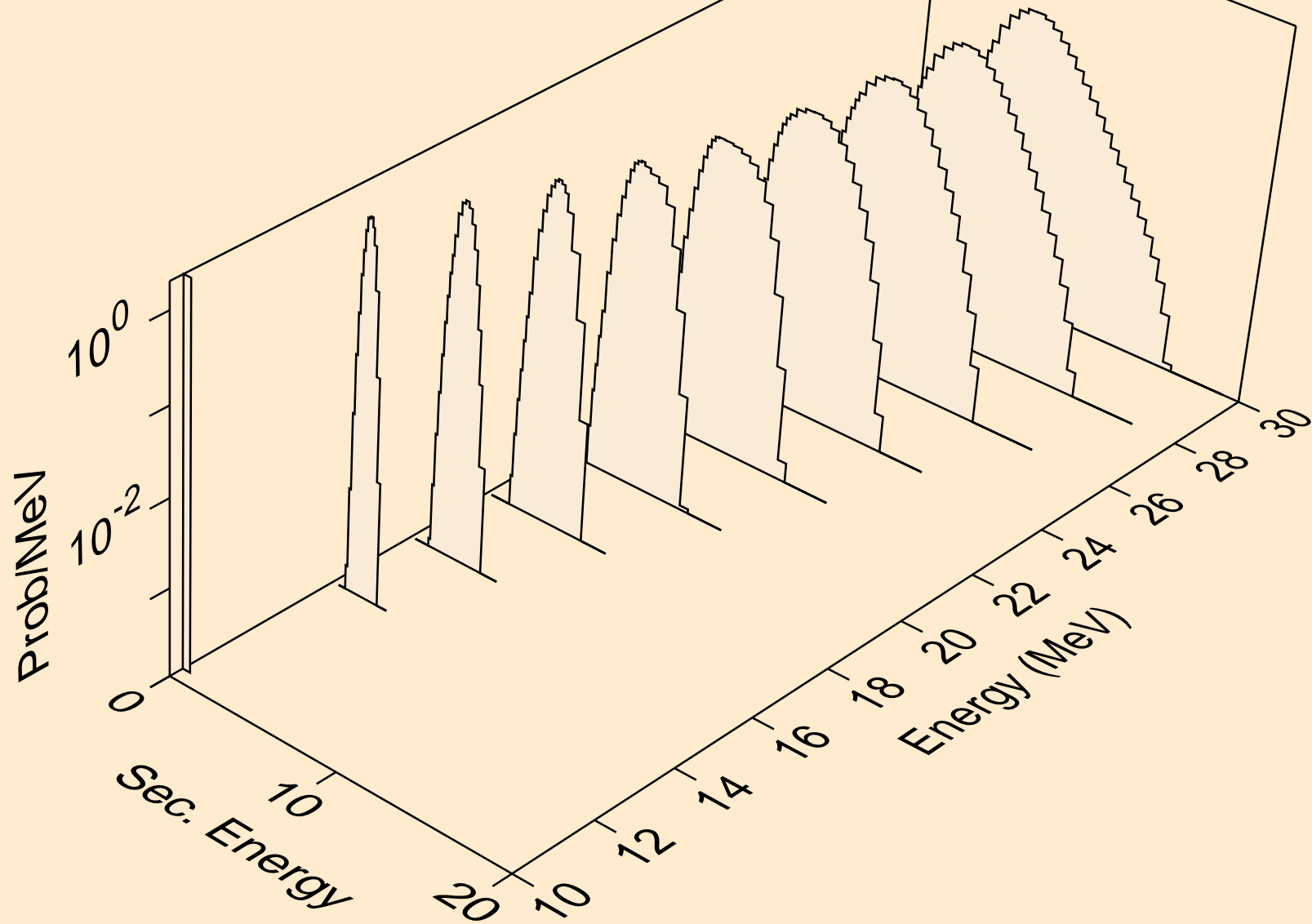


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protons from (n,3np)

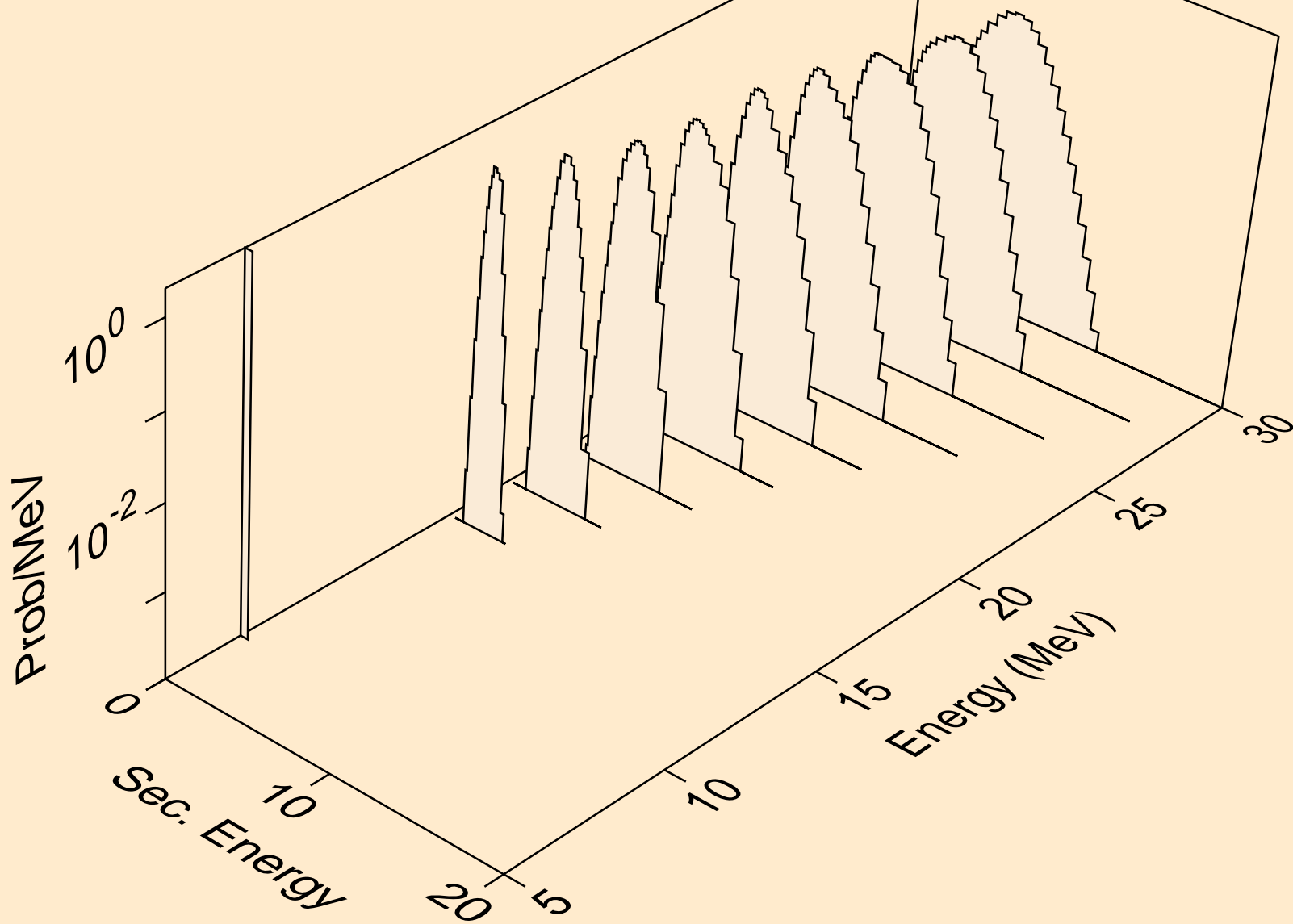




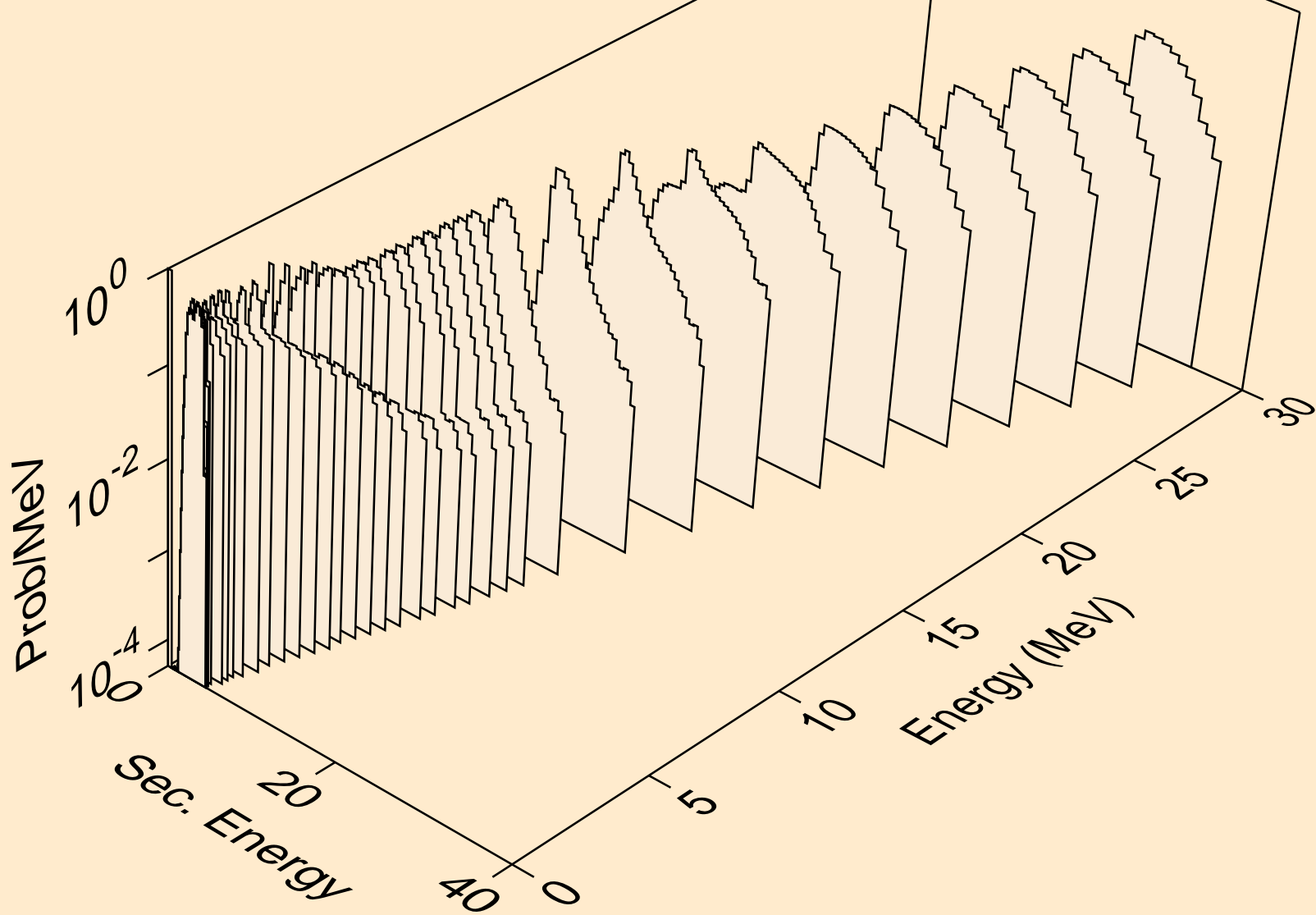
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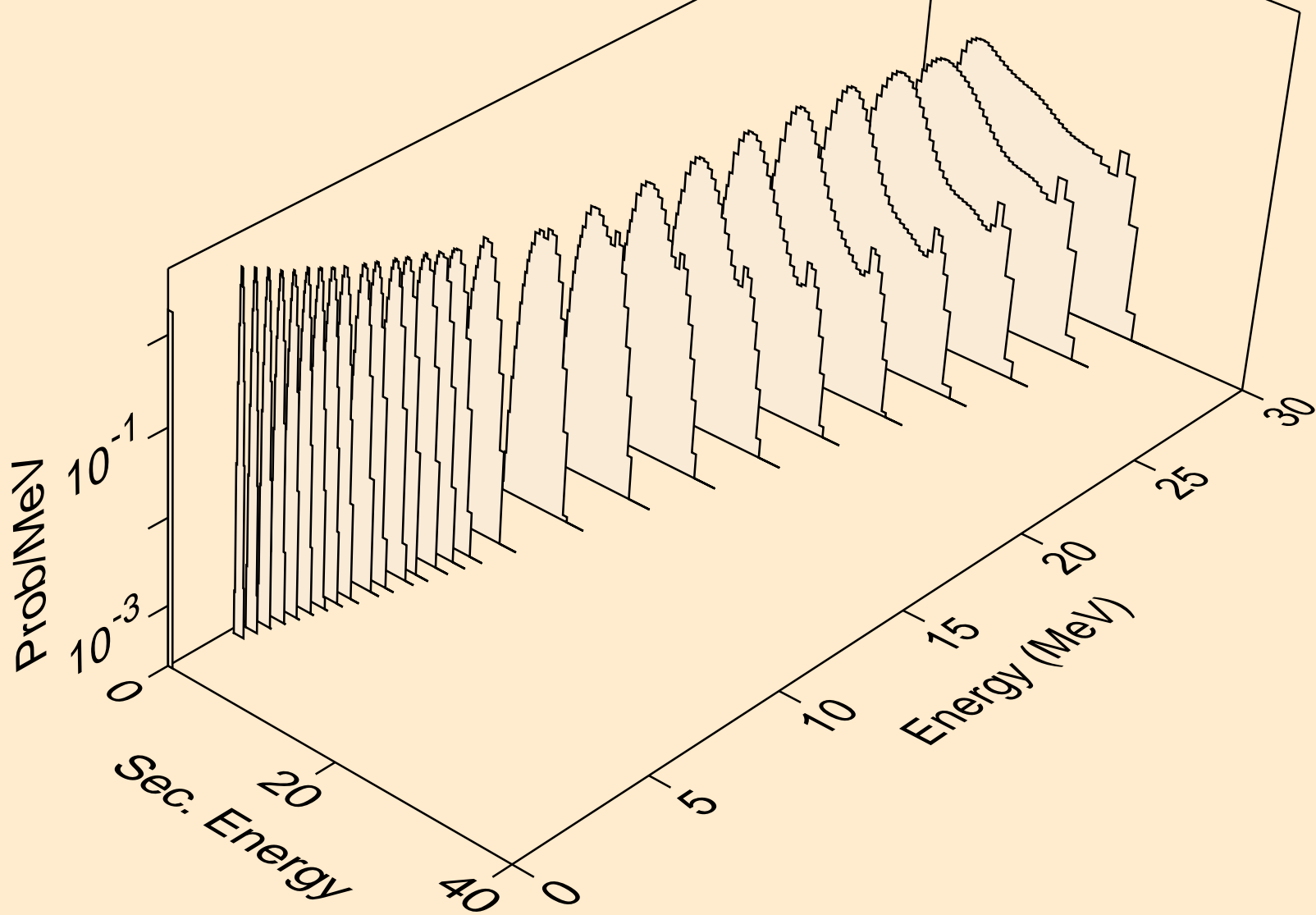
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protons from (n,npa)



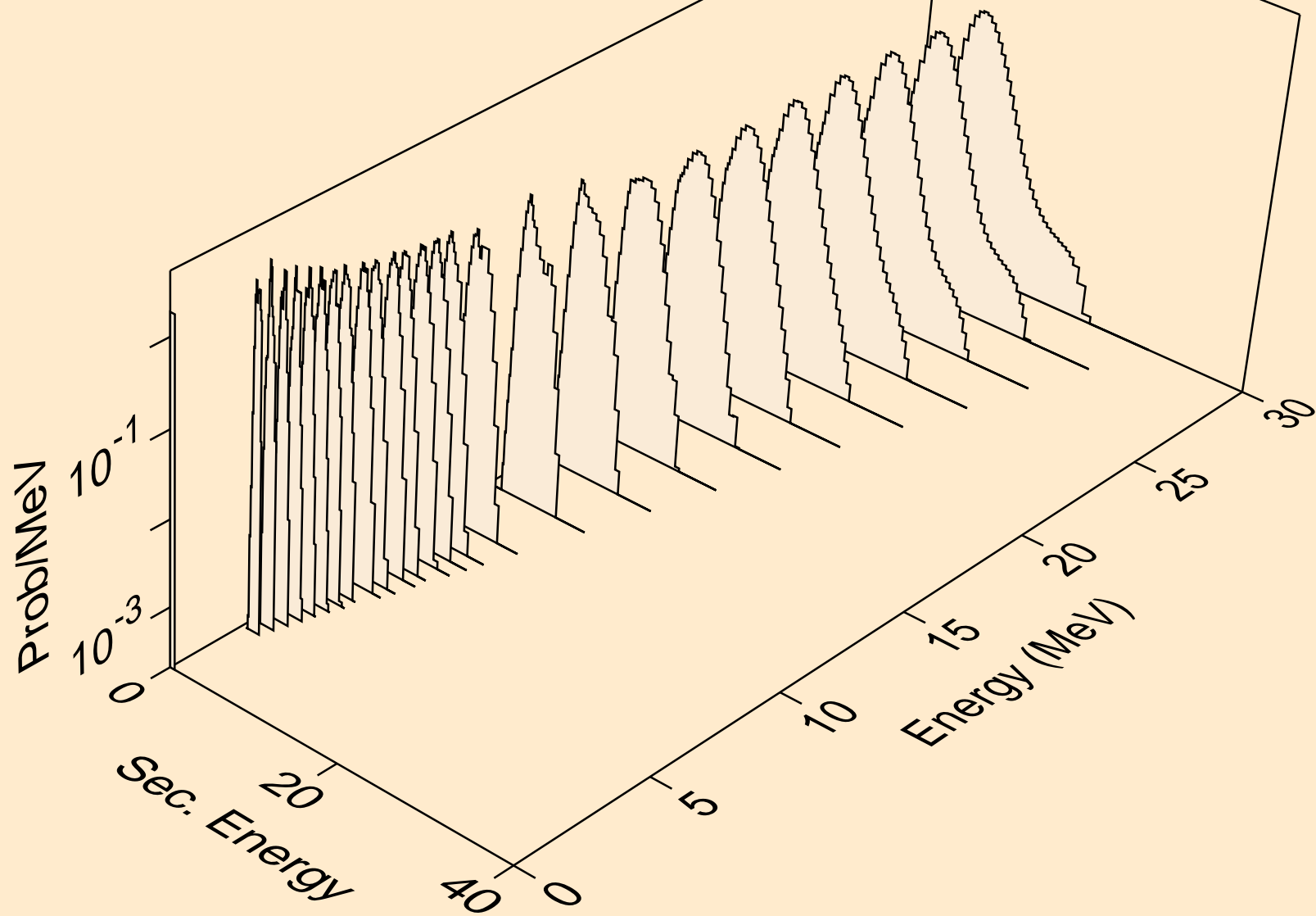
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protons from (n,p)



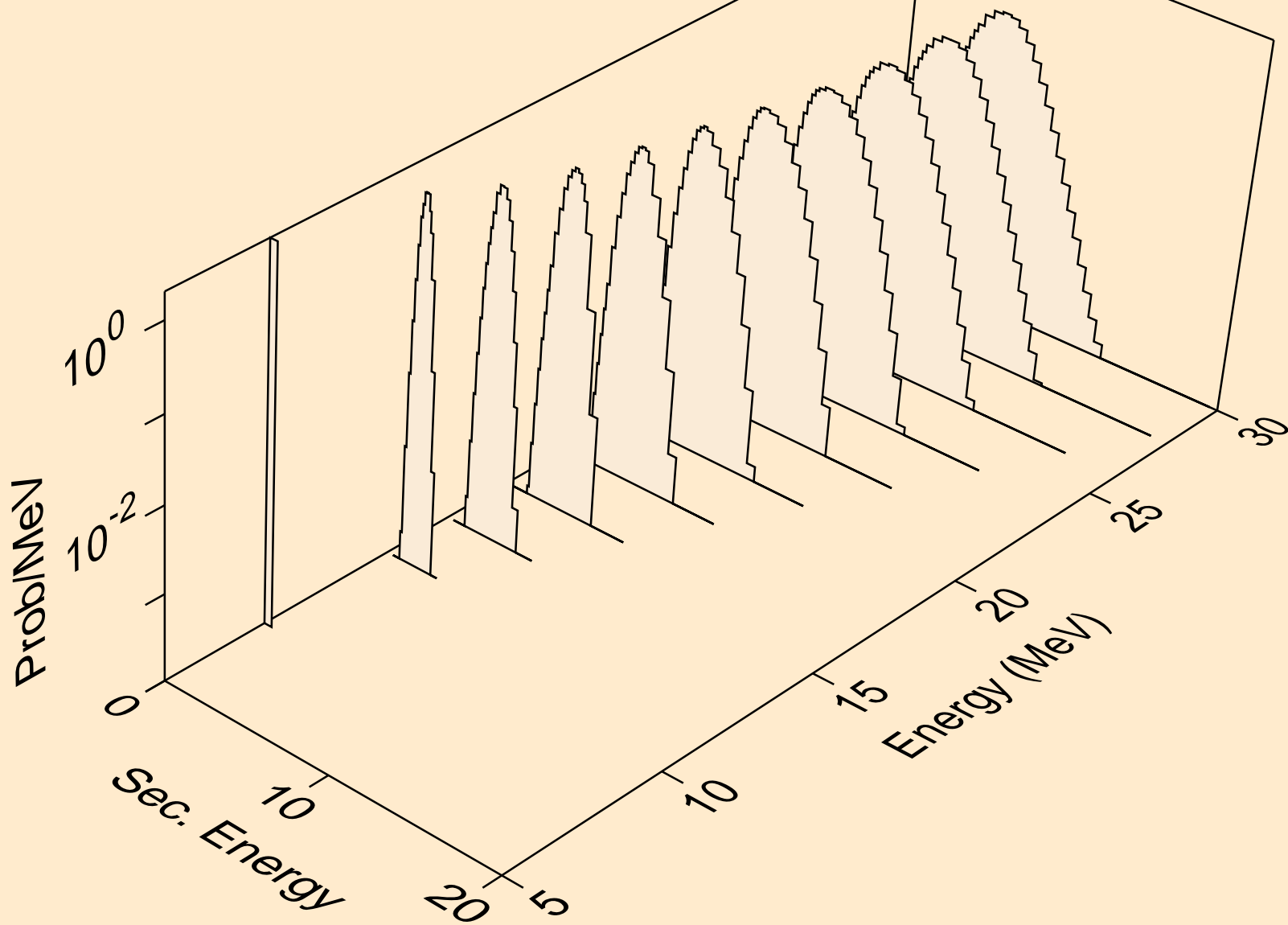
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protons from (n,2p)



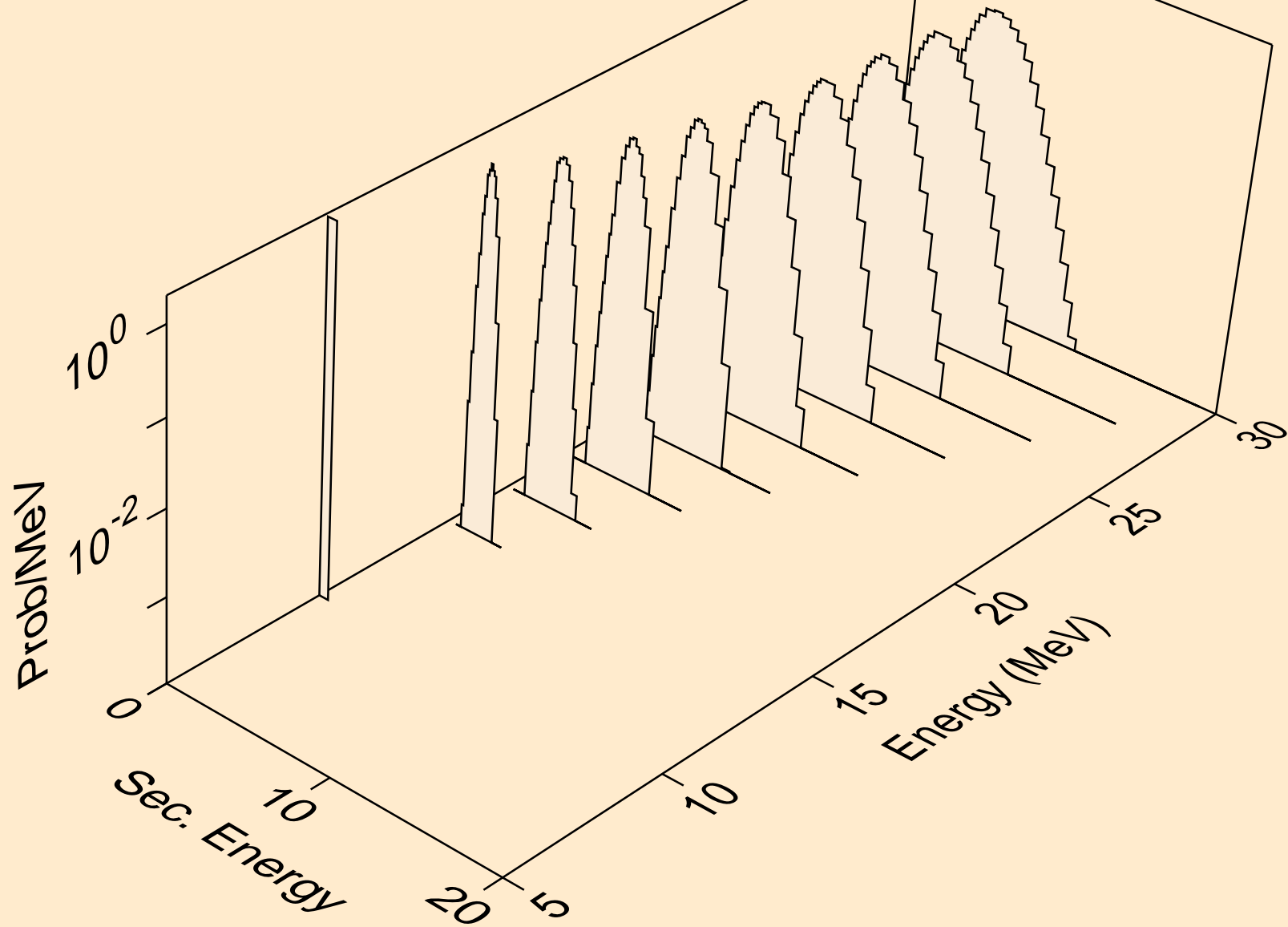
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protons from (n,p)



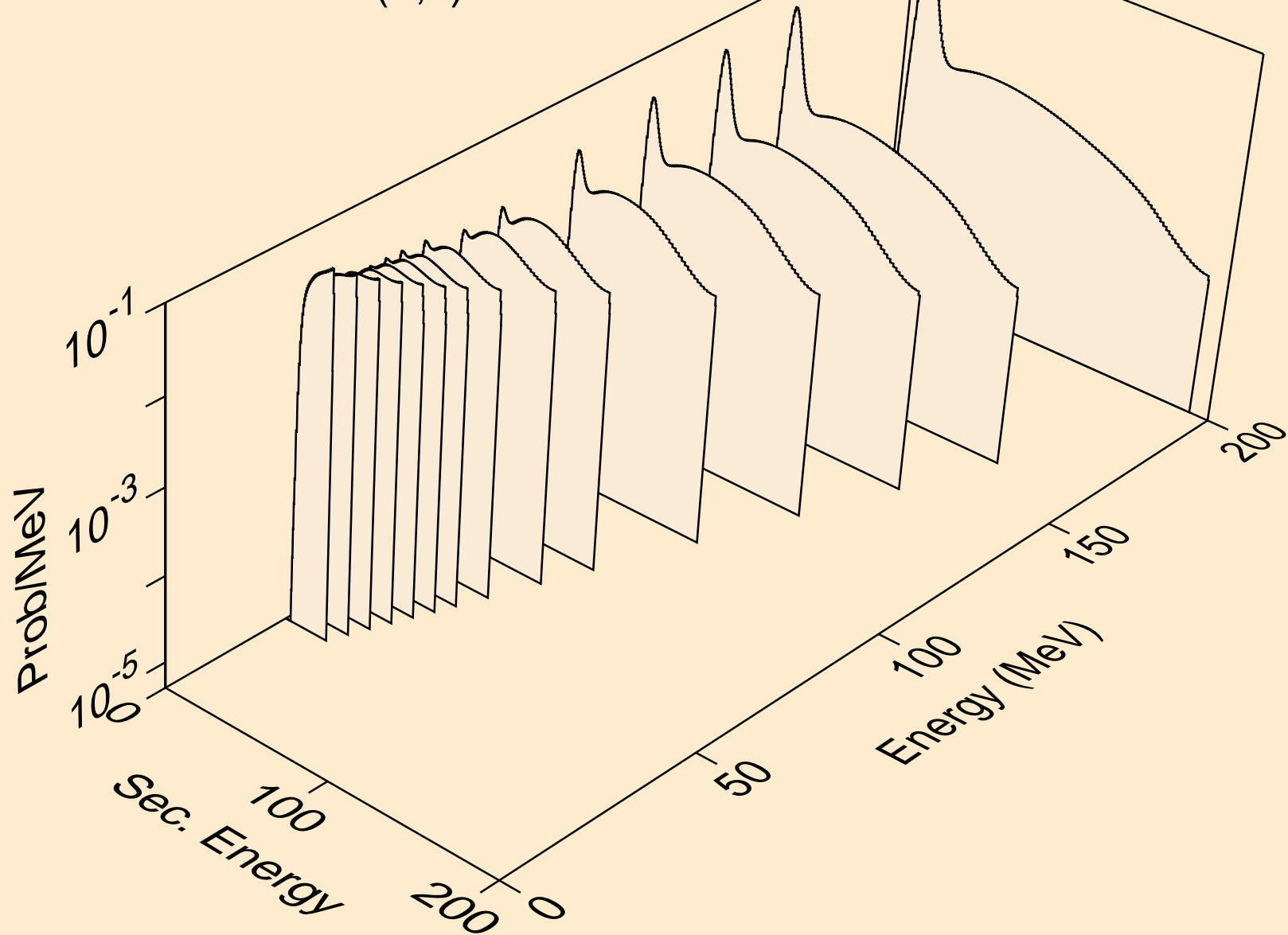
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protons from (n,pd)



SN109 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
protons from (n,pt)

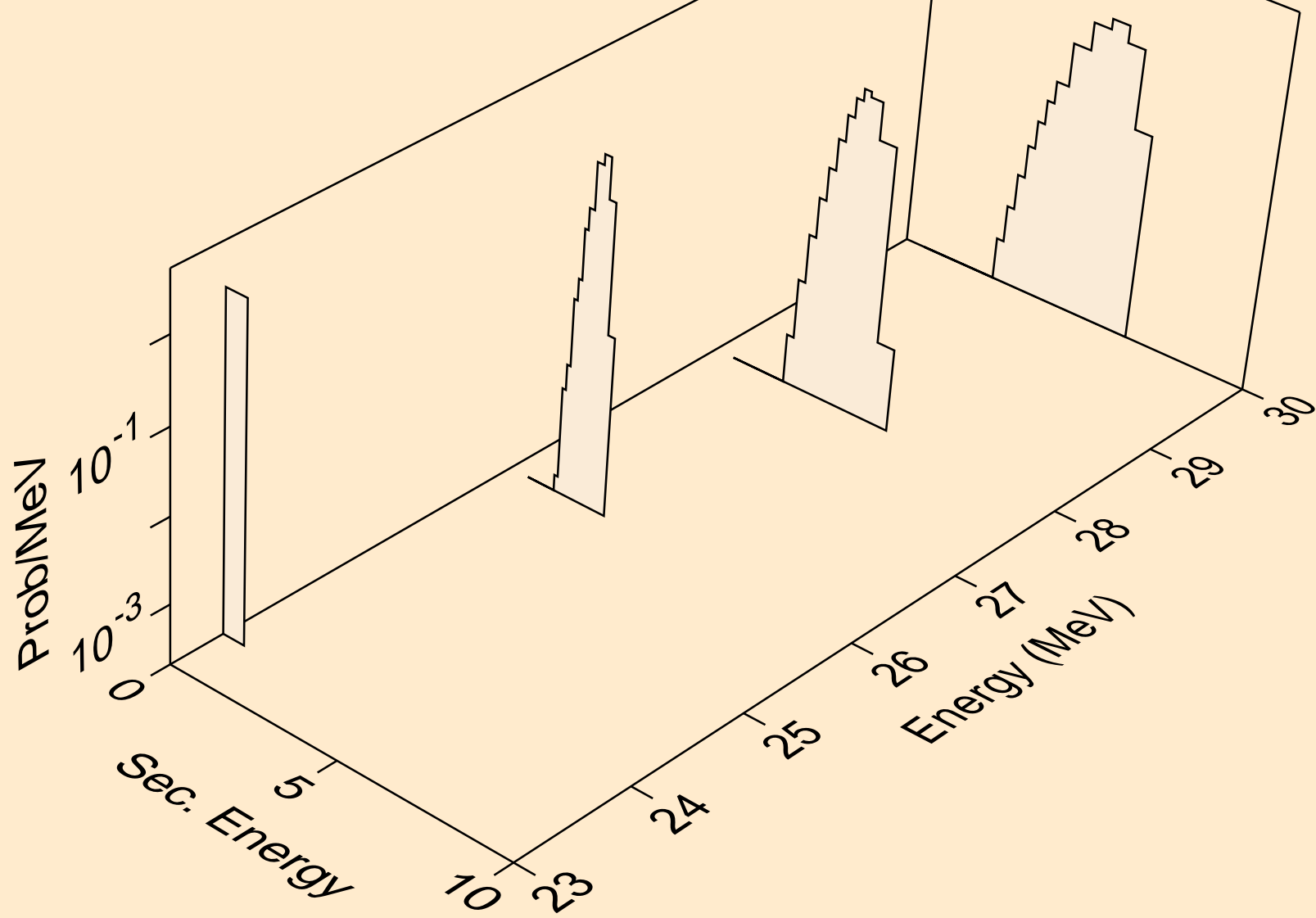


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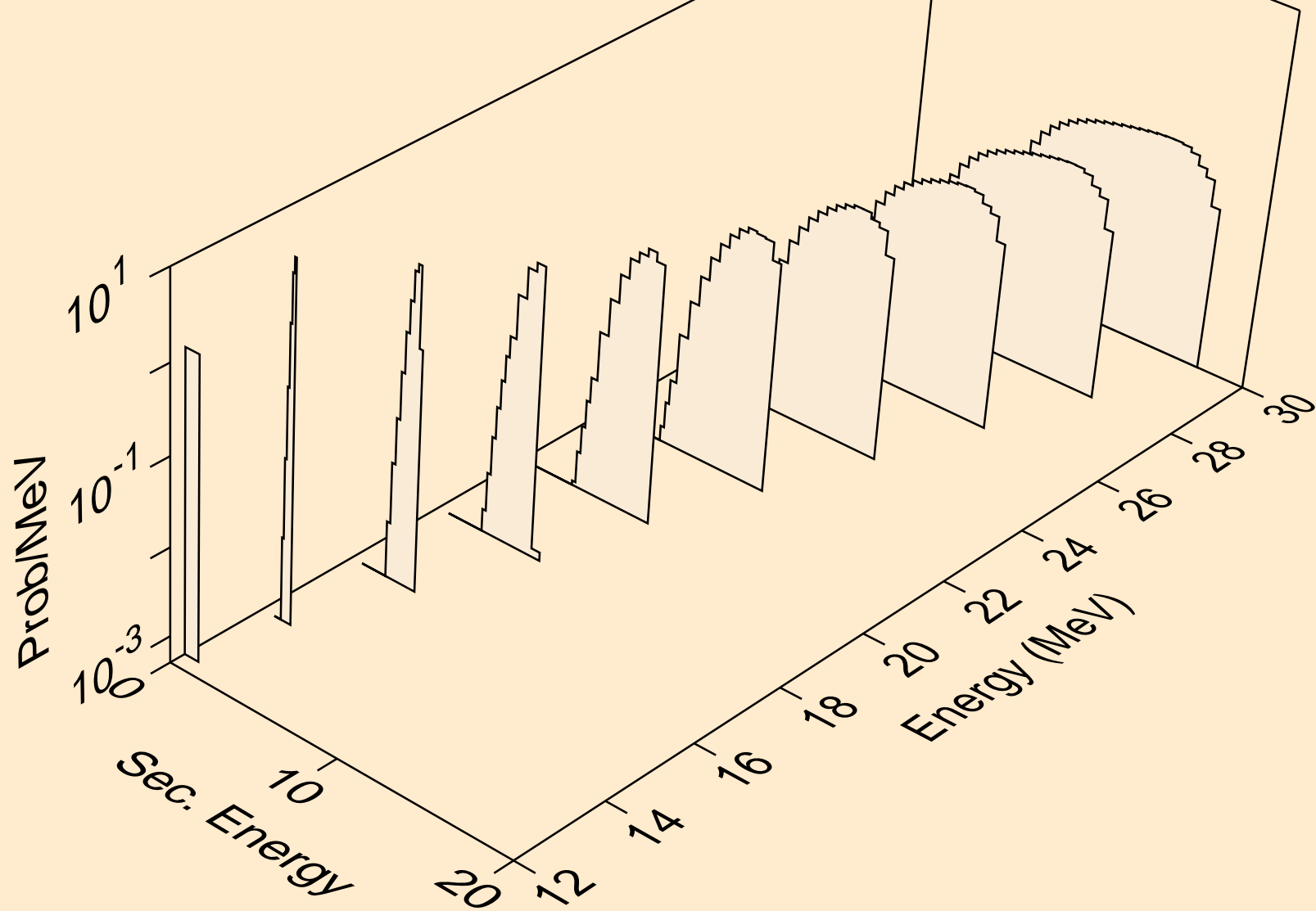




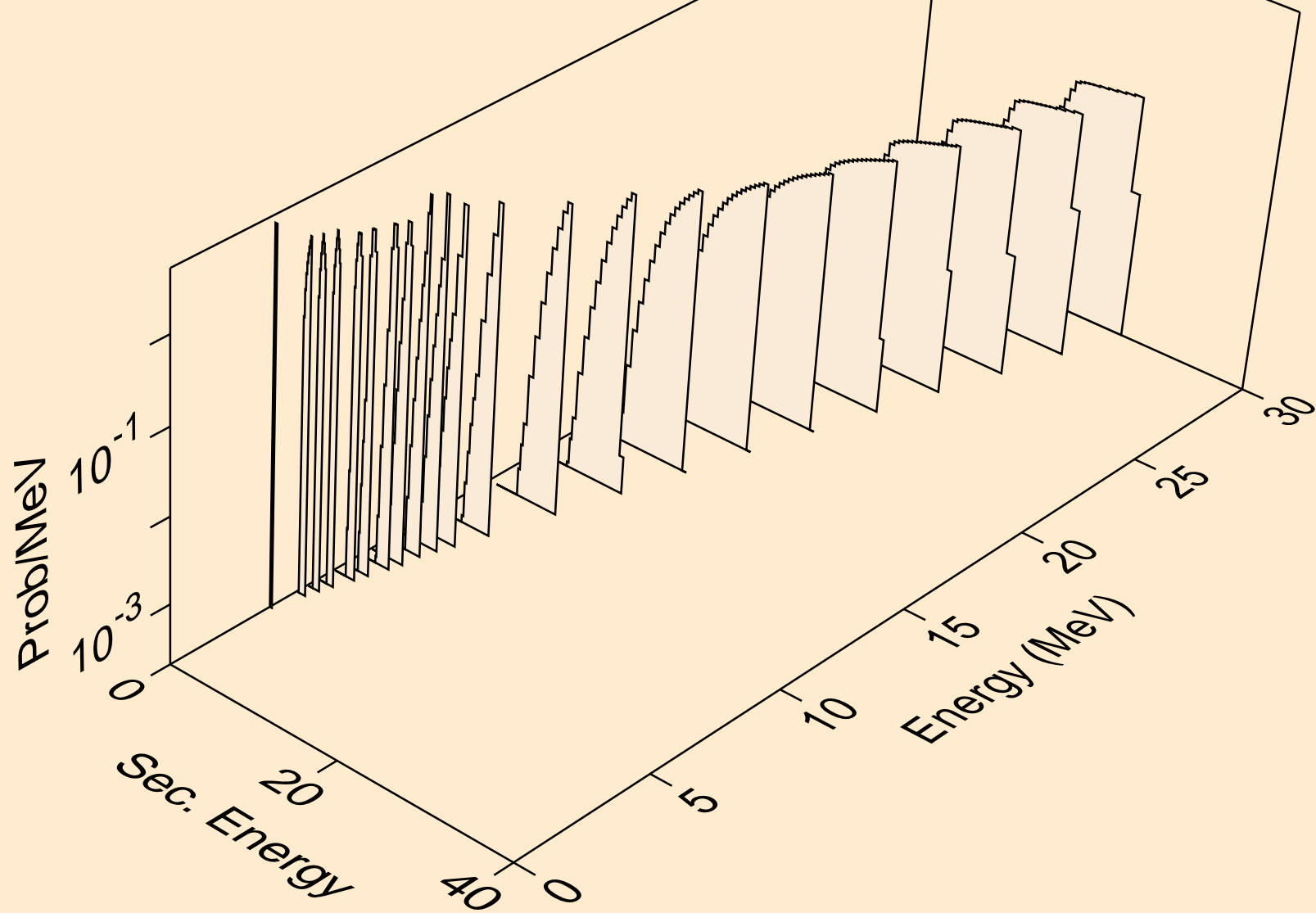
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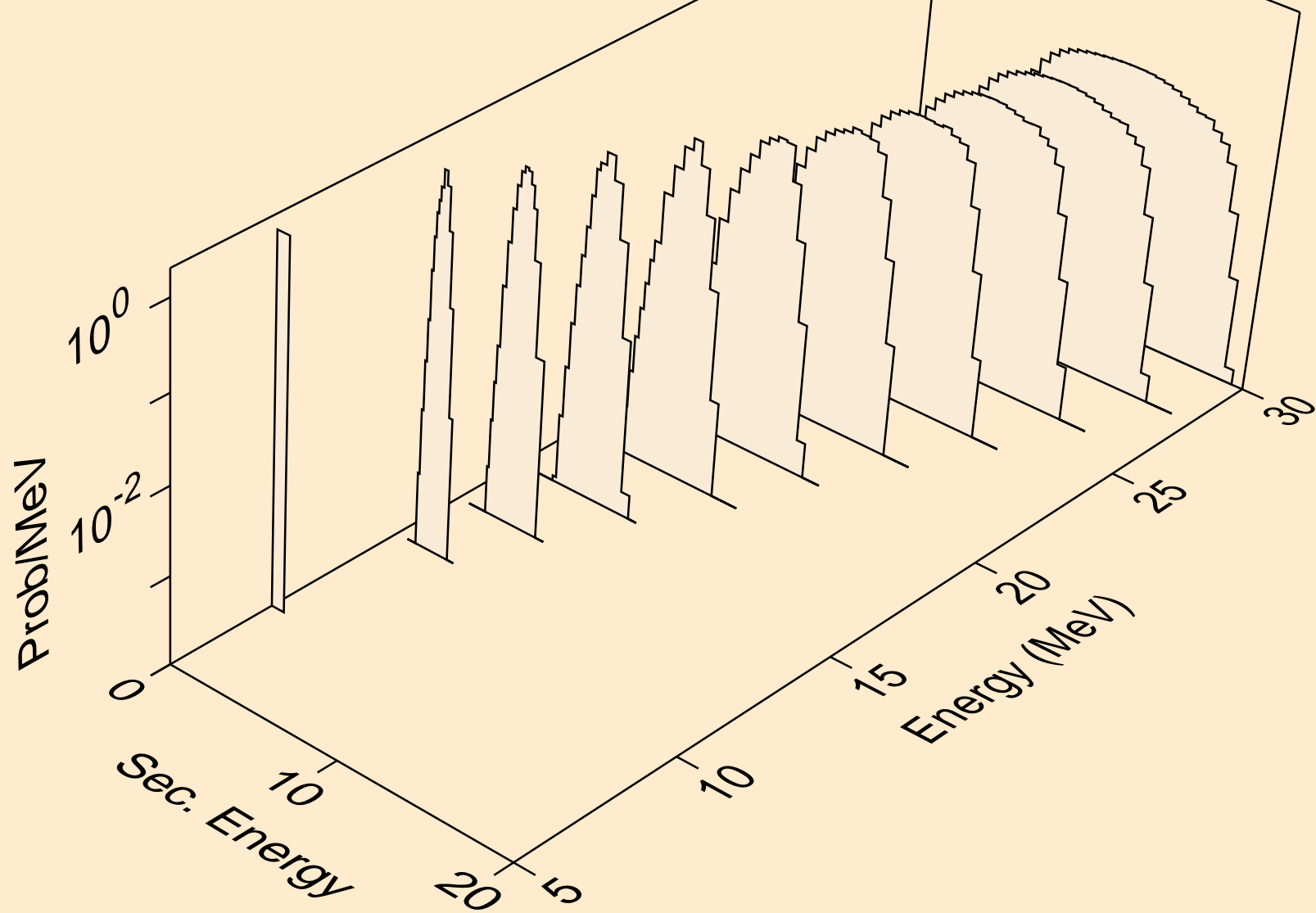
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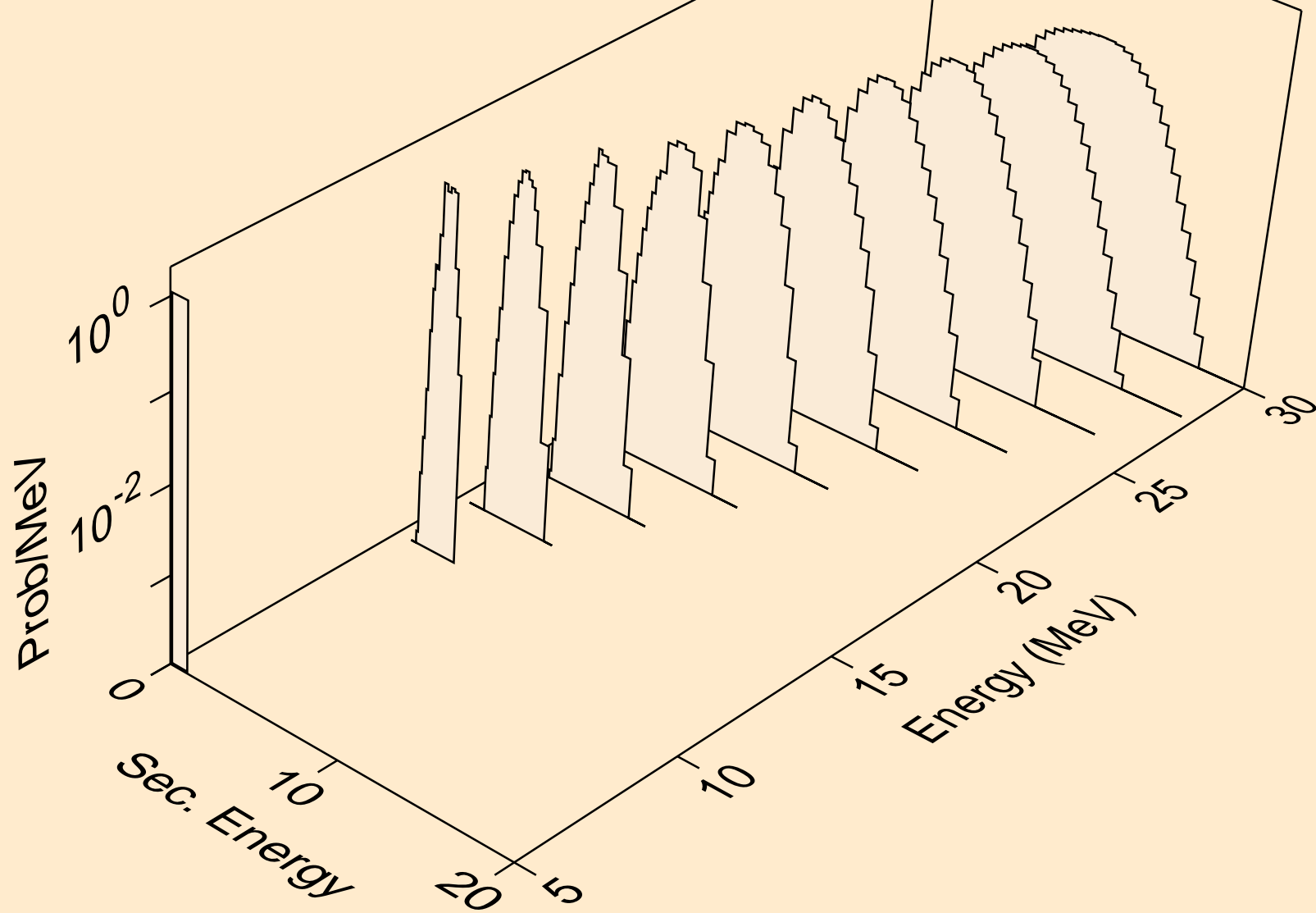
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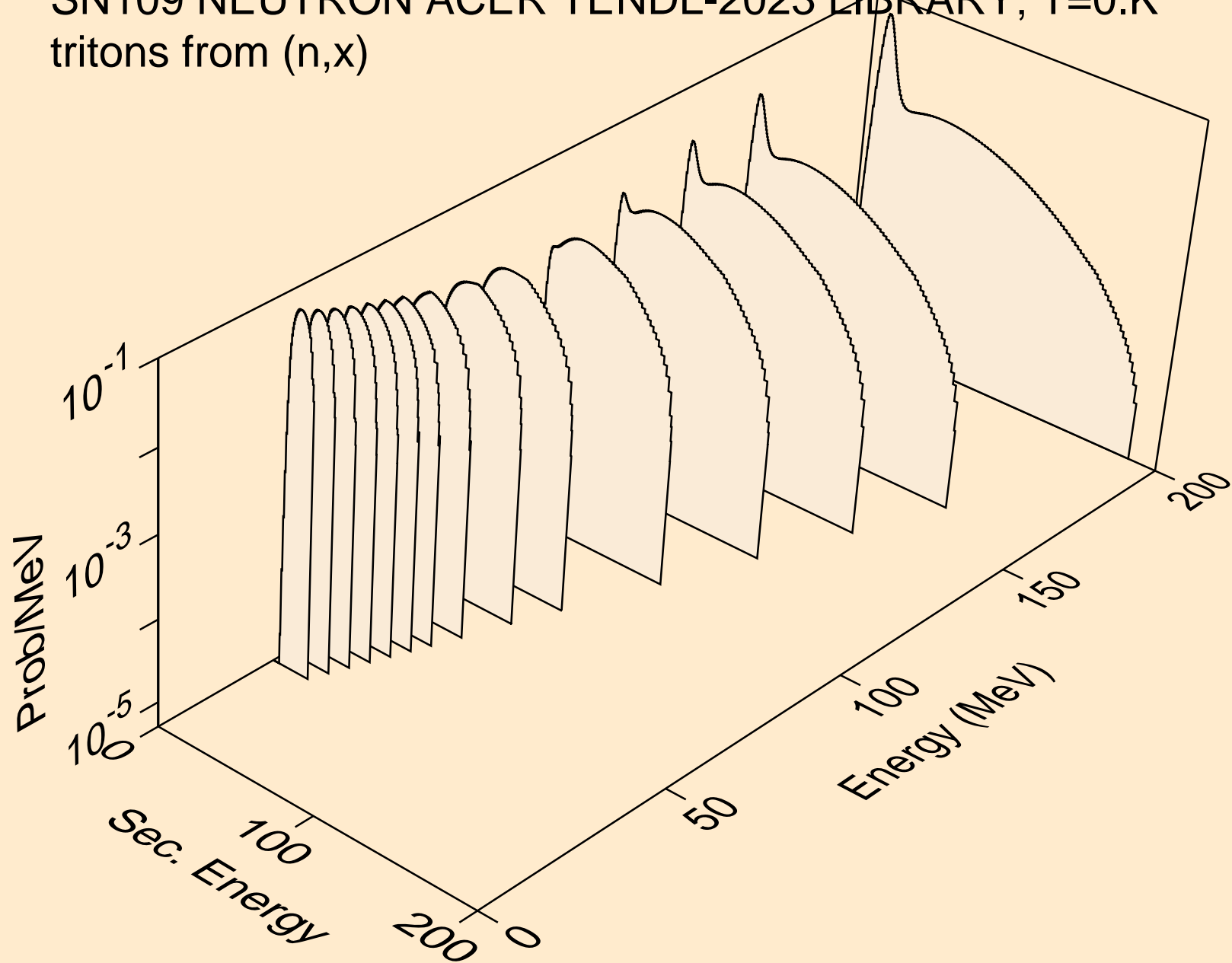
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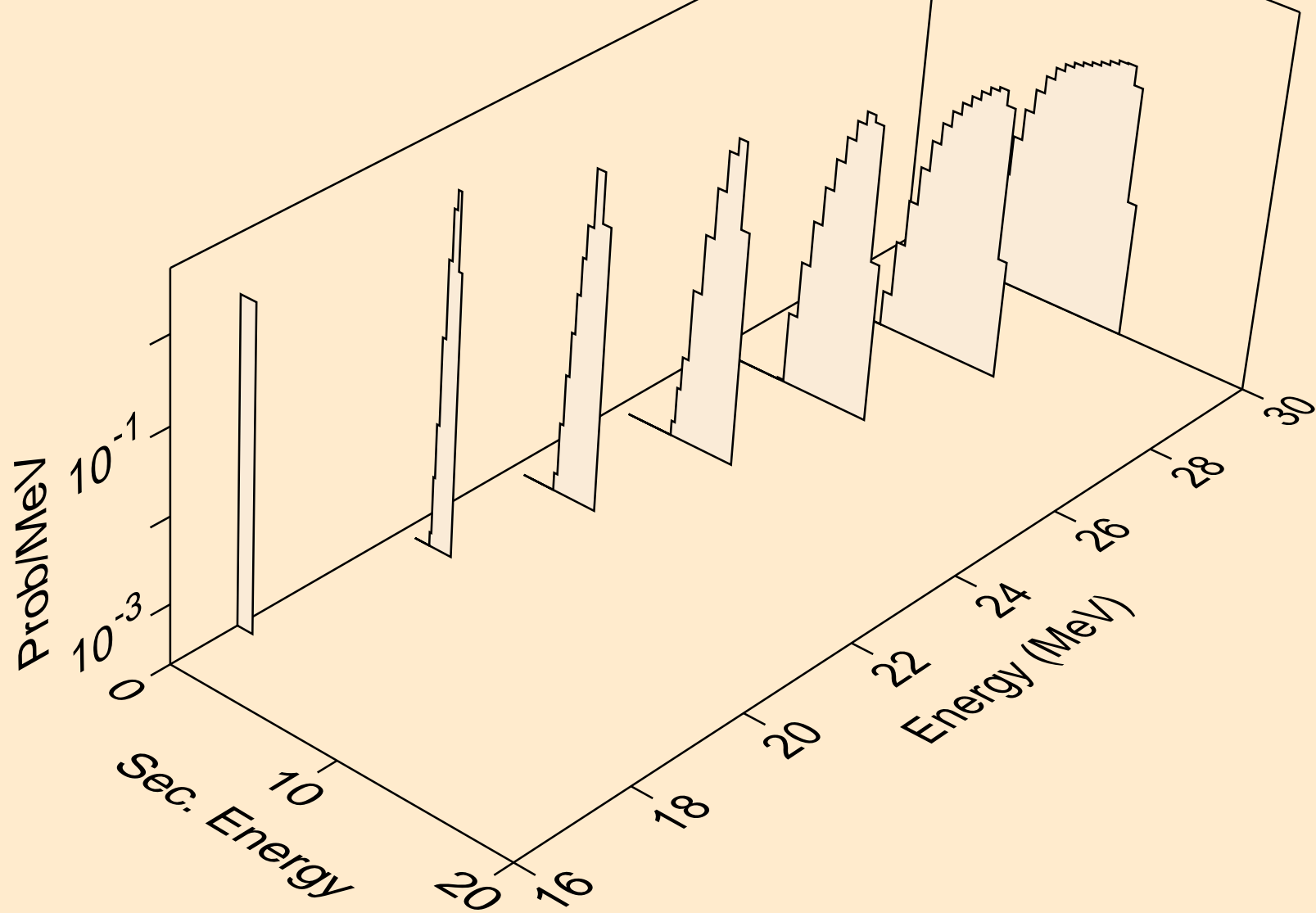
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deuterons from (n,da)



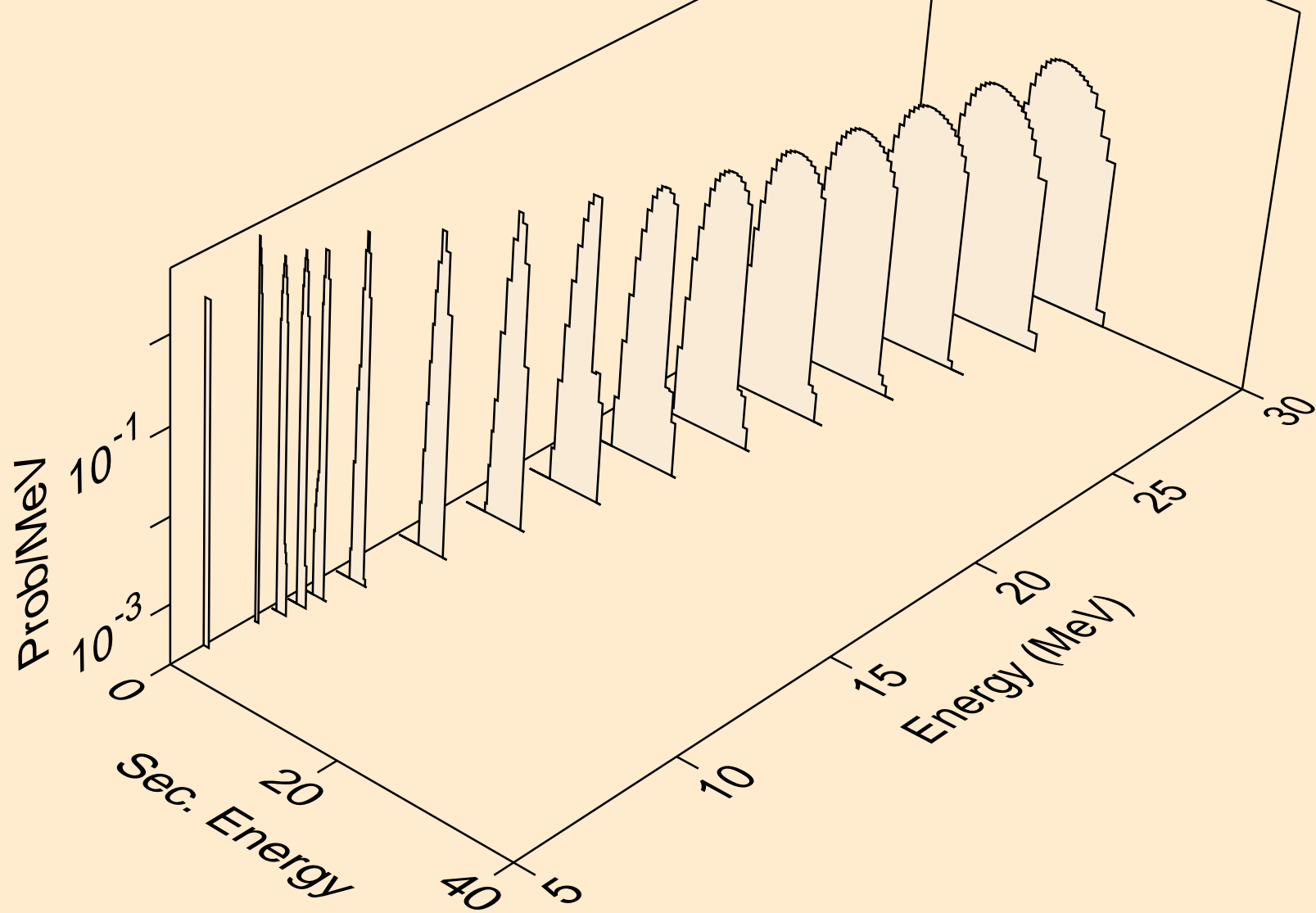
SN109 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
tritons from (n,x)



SN109 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
tritons from (n,n\*)t

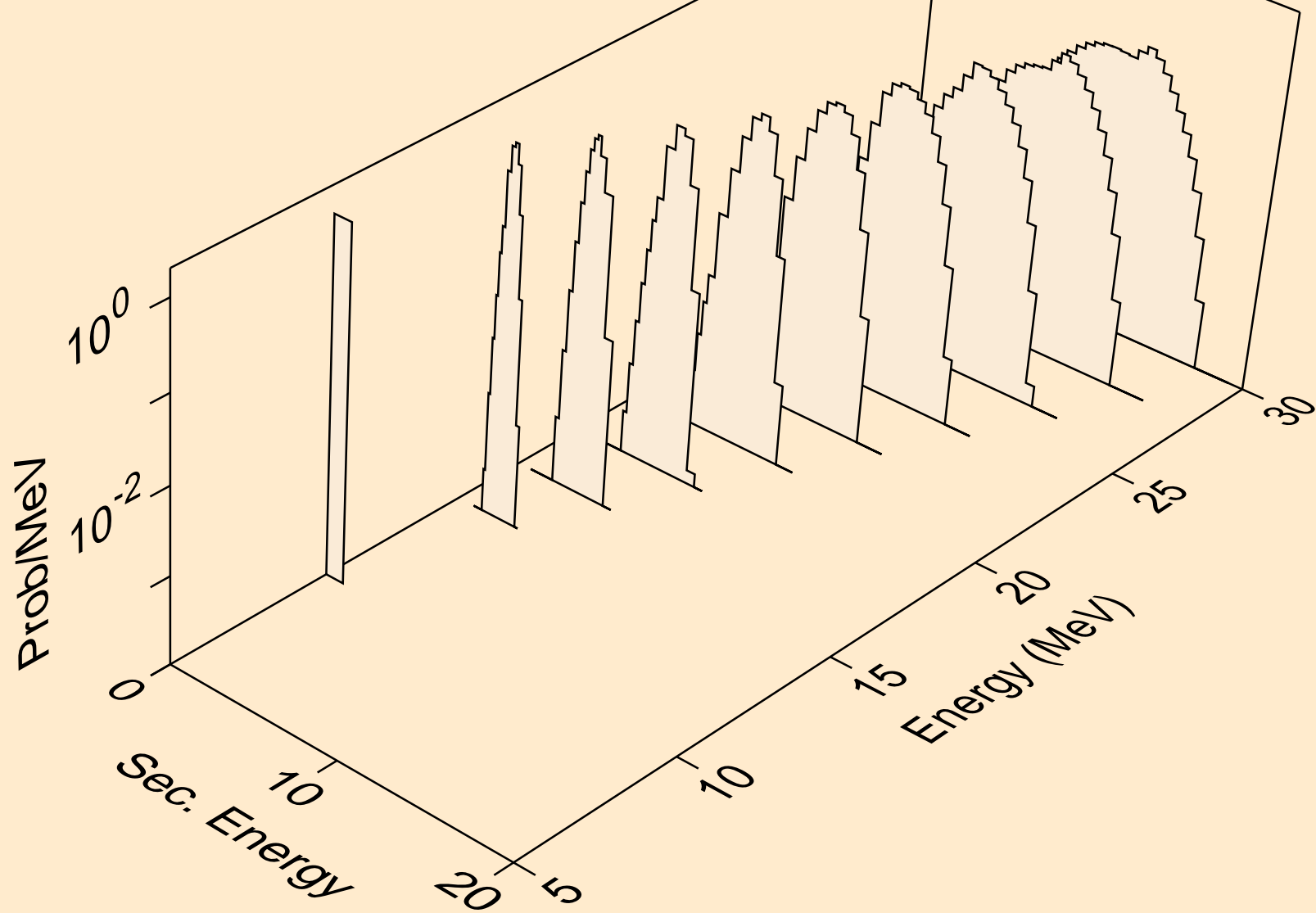


SN109 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
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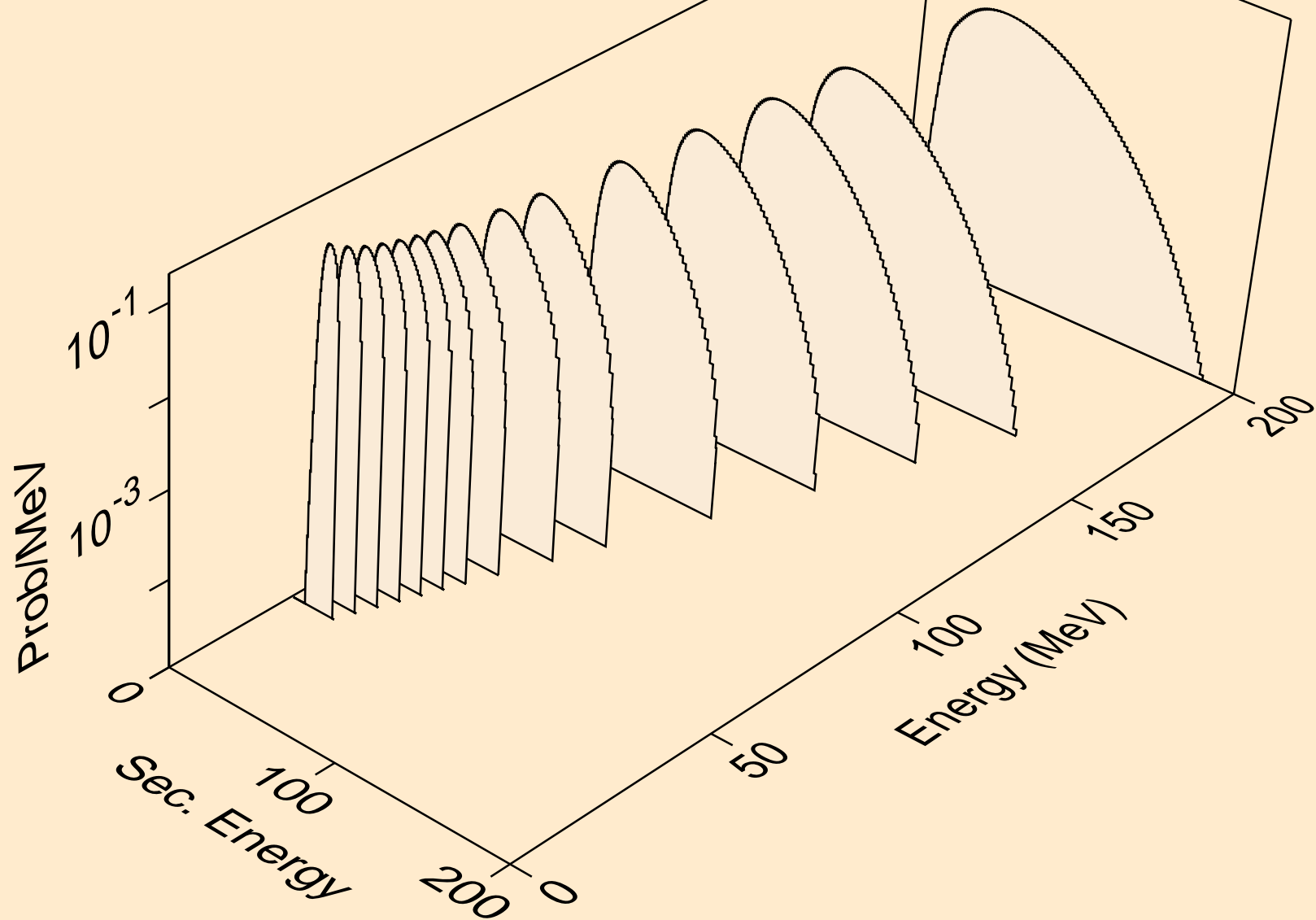




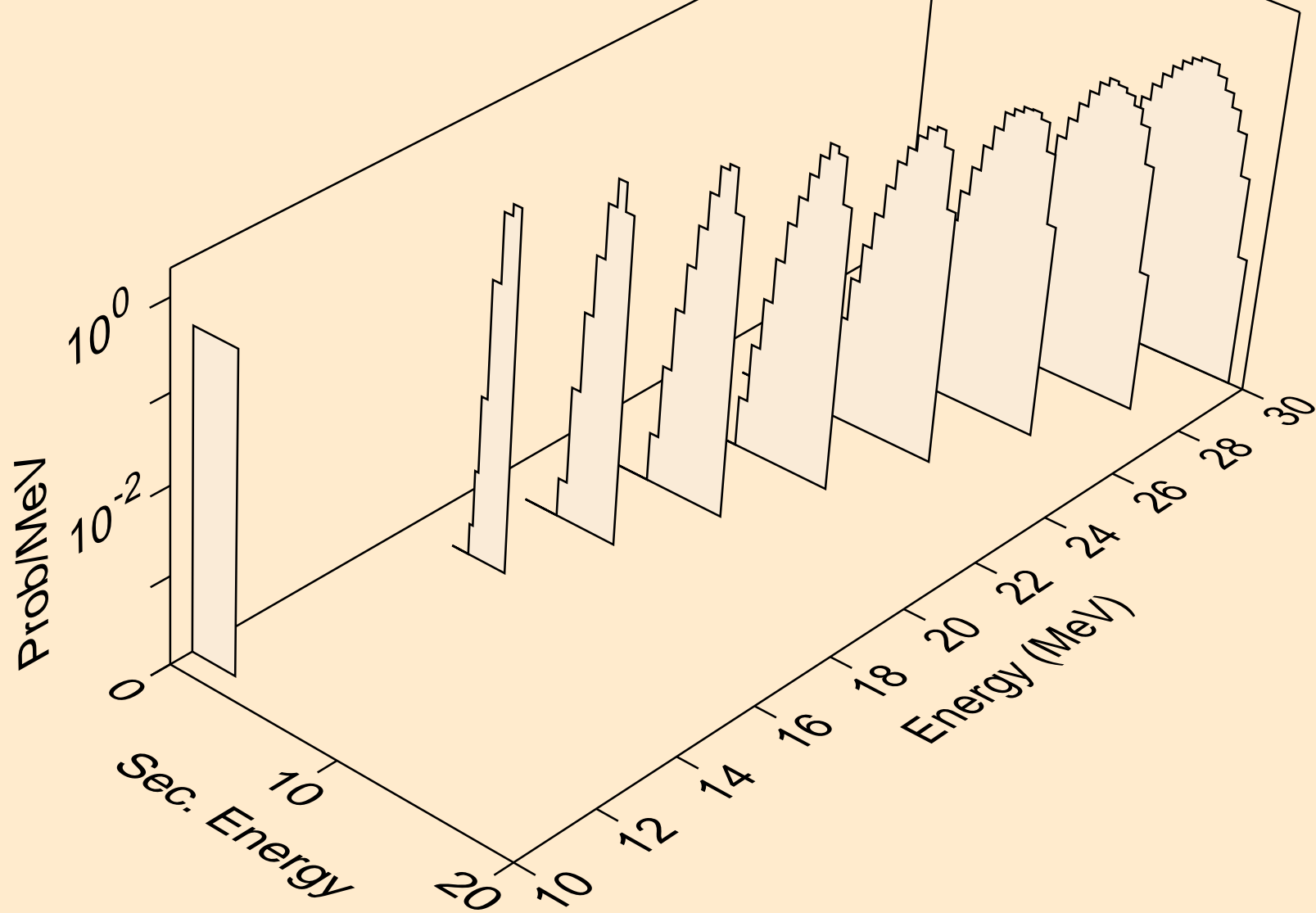
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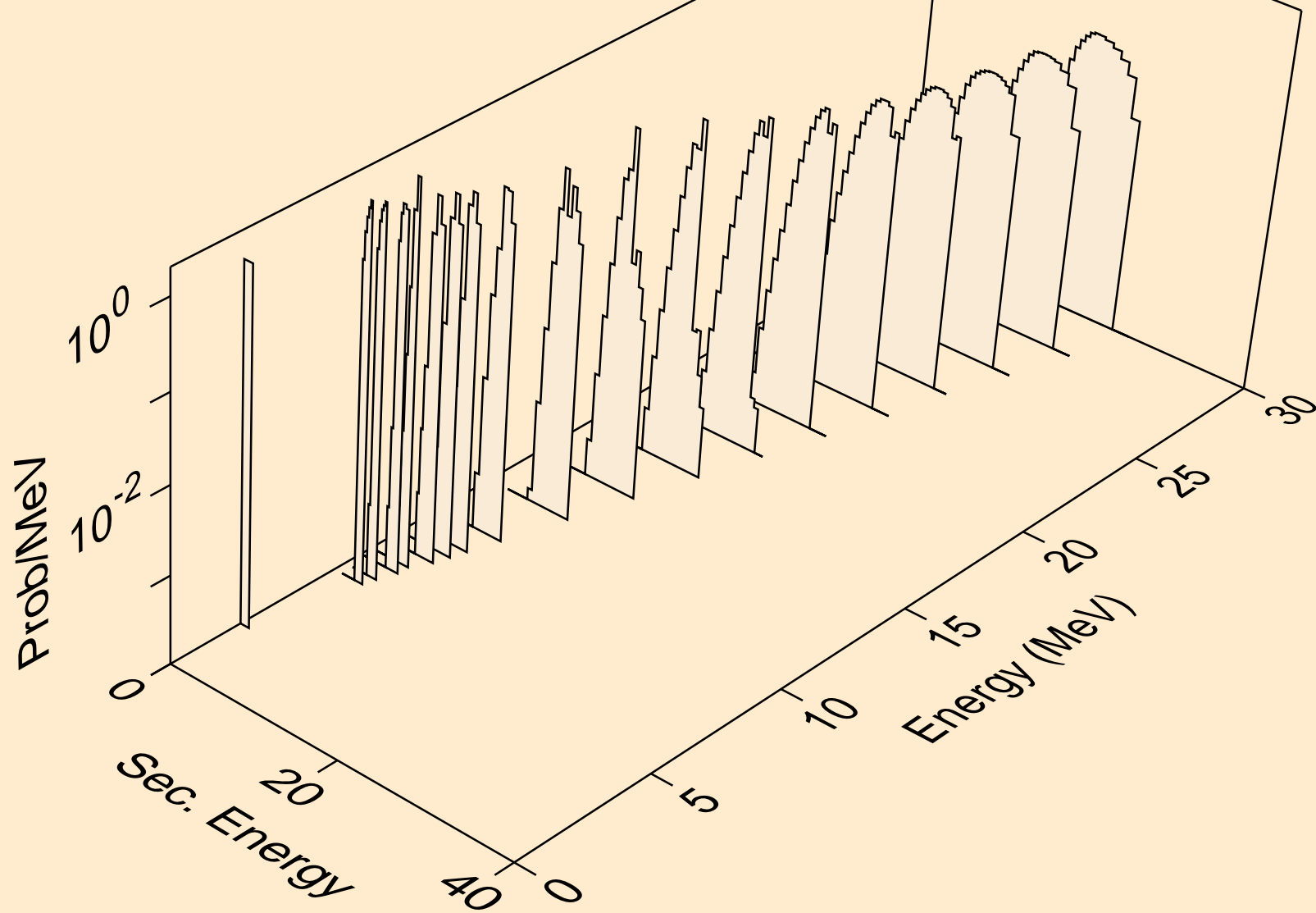
SN109 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
he3s from (n,x)



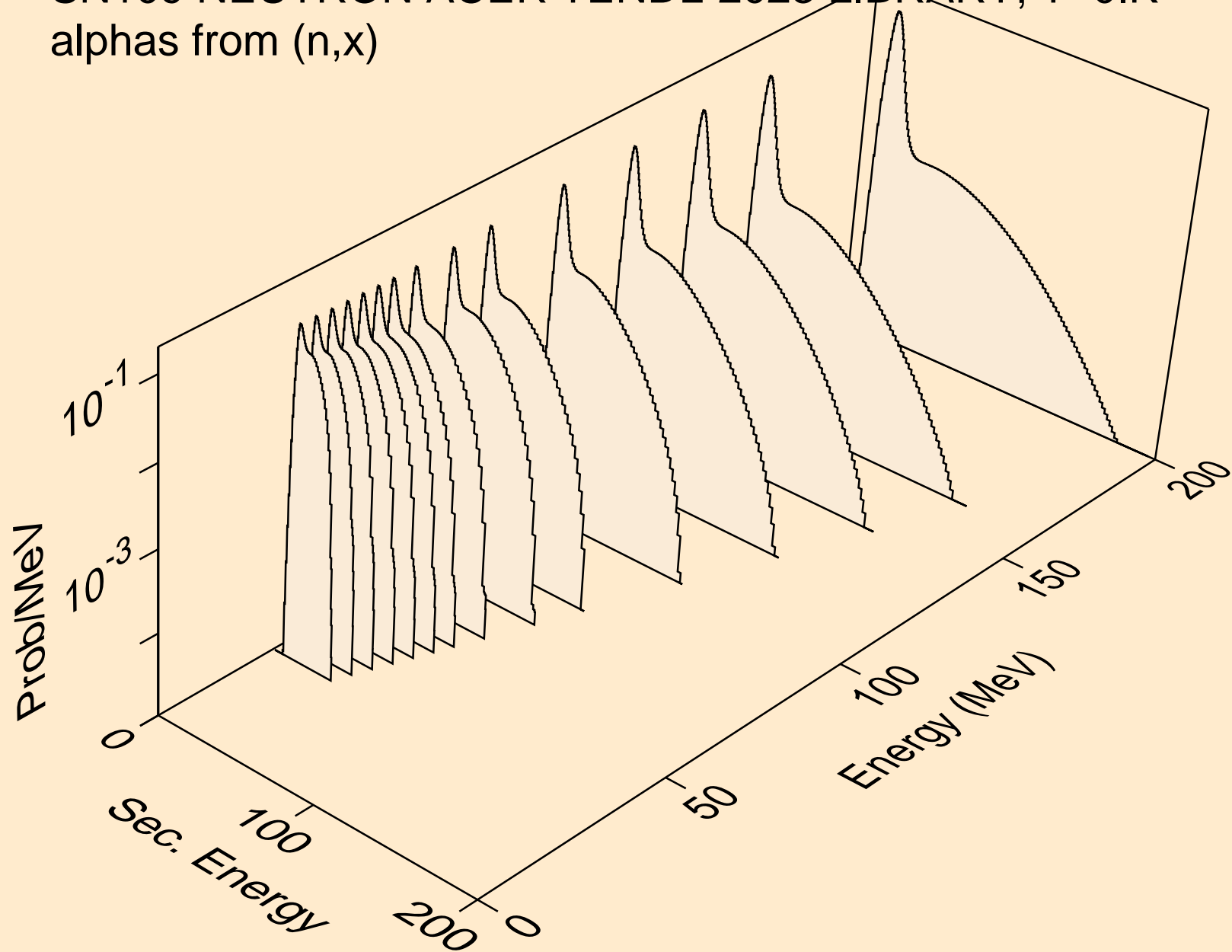
SN109 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
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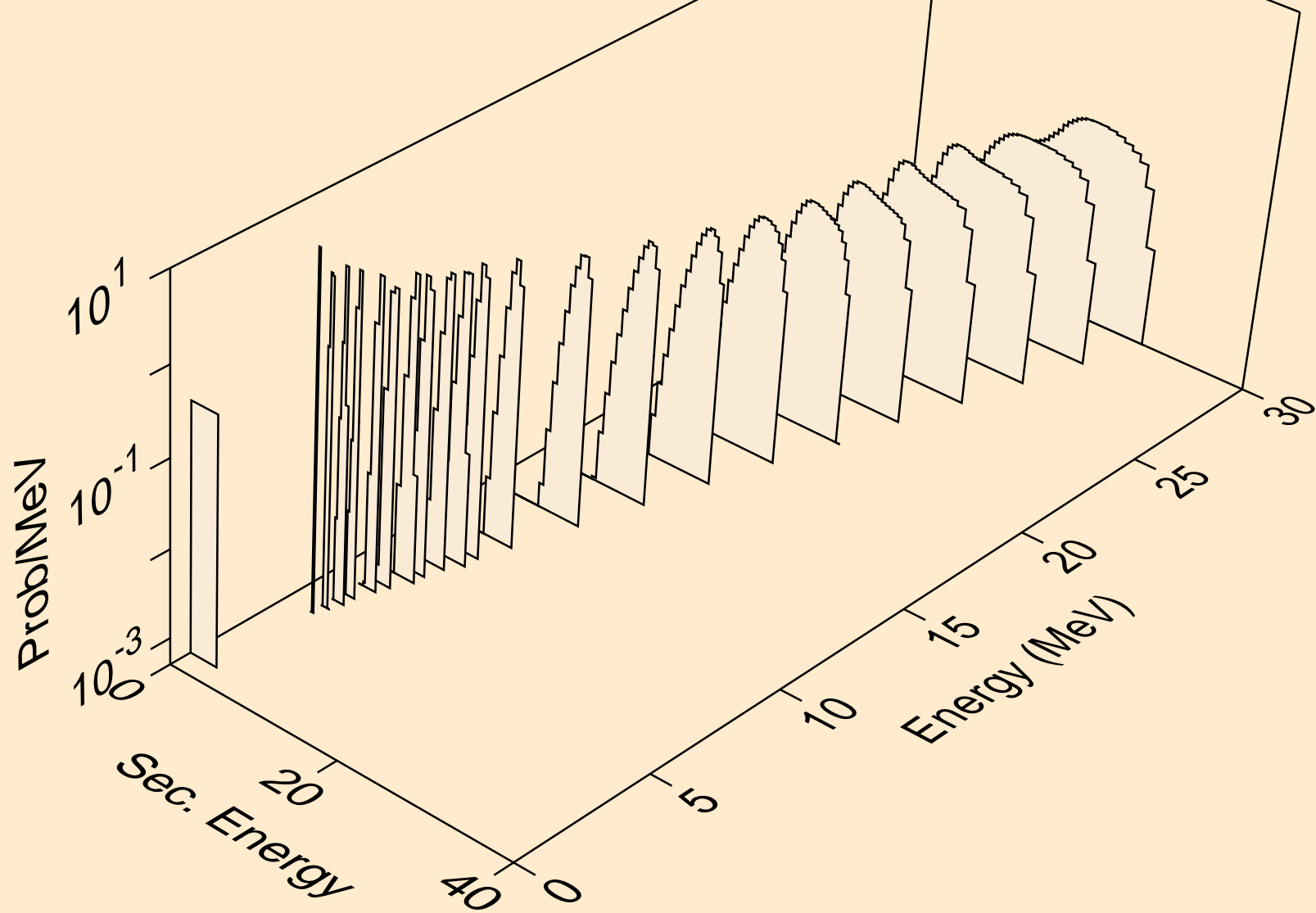
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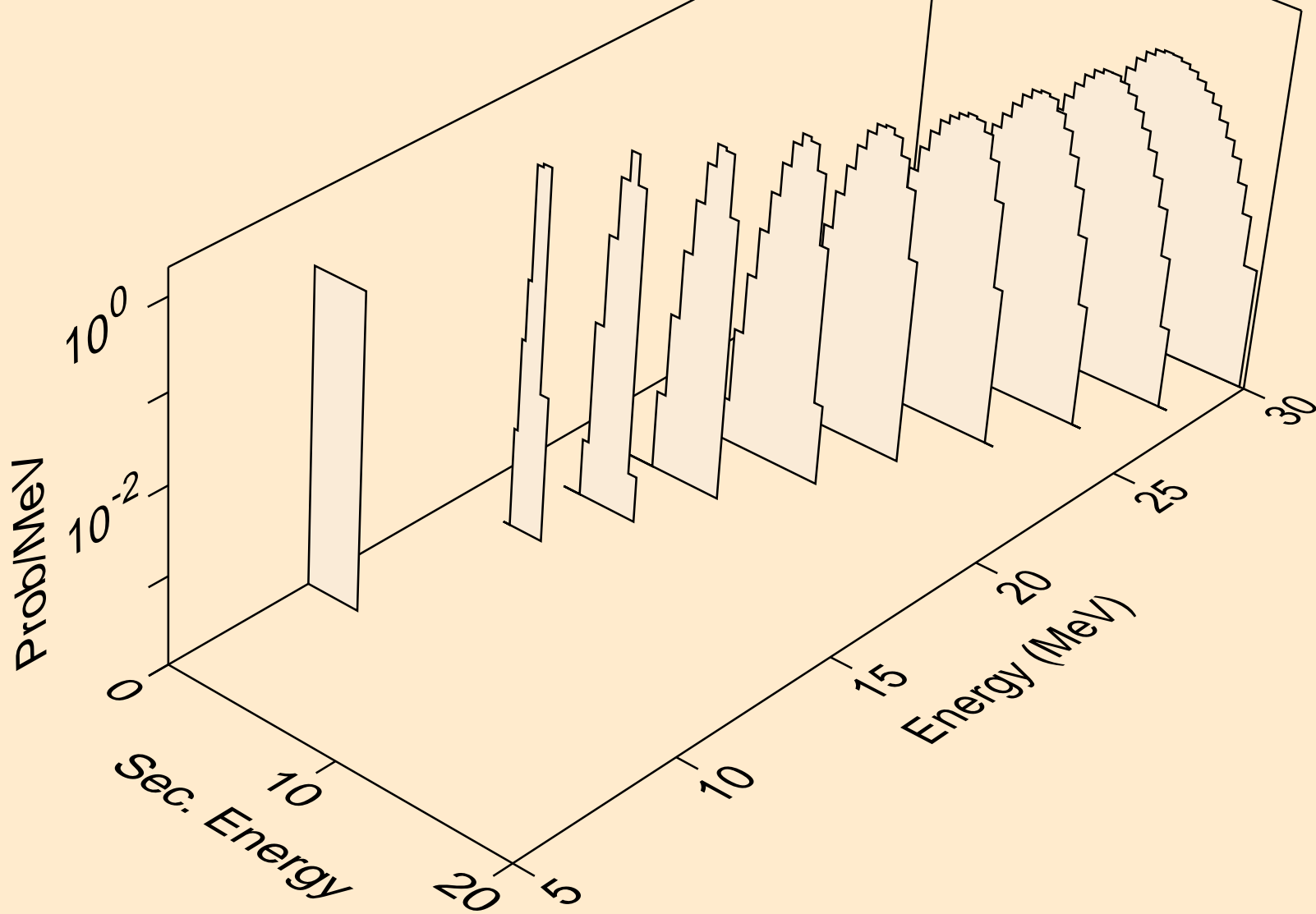
SN109 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,x)



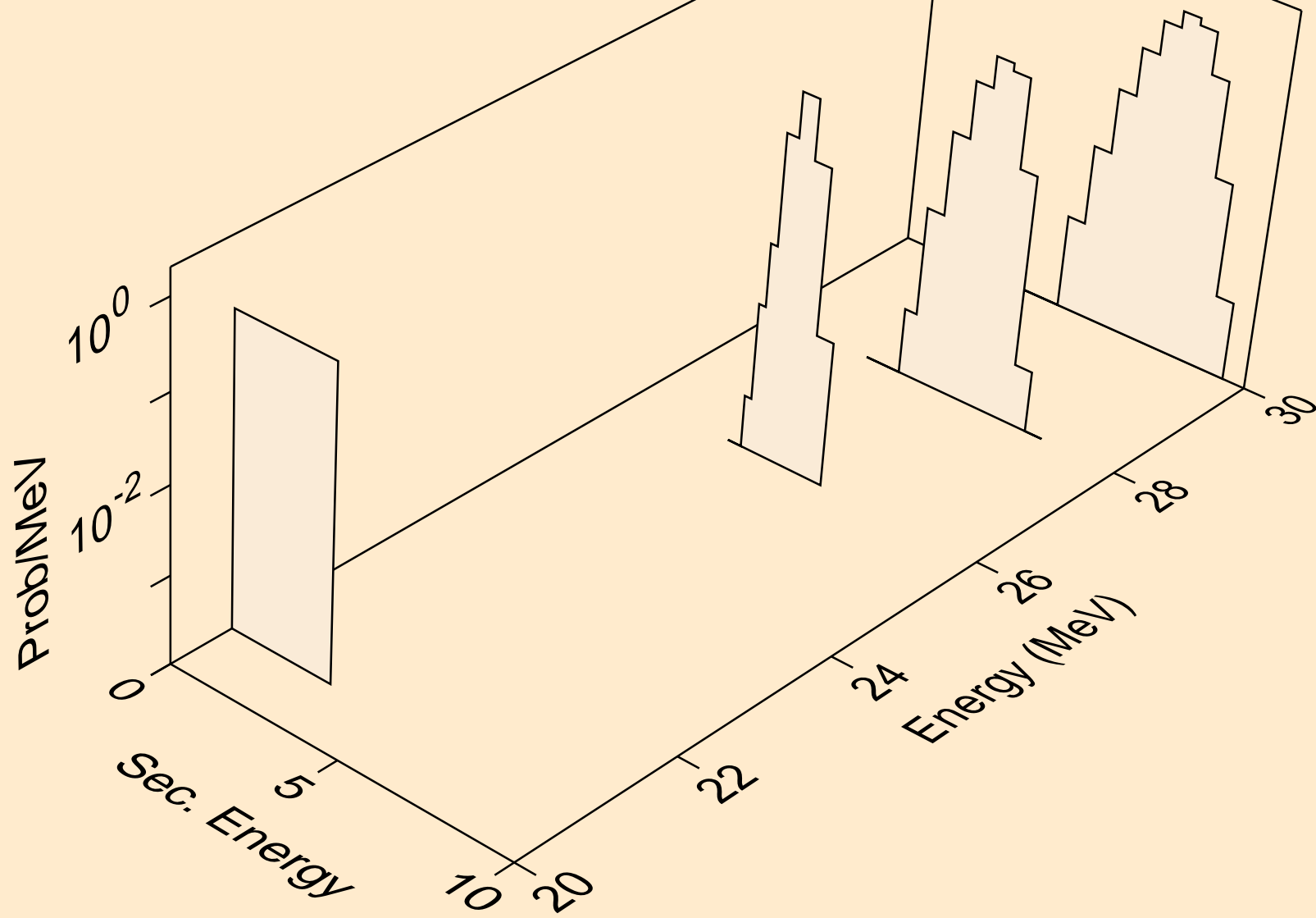
SN109 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,n\*)a



SN109 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,2n)a

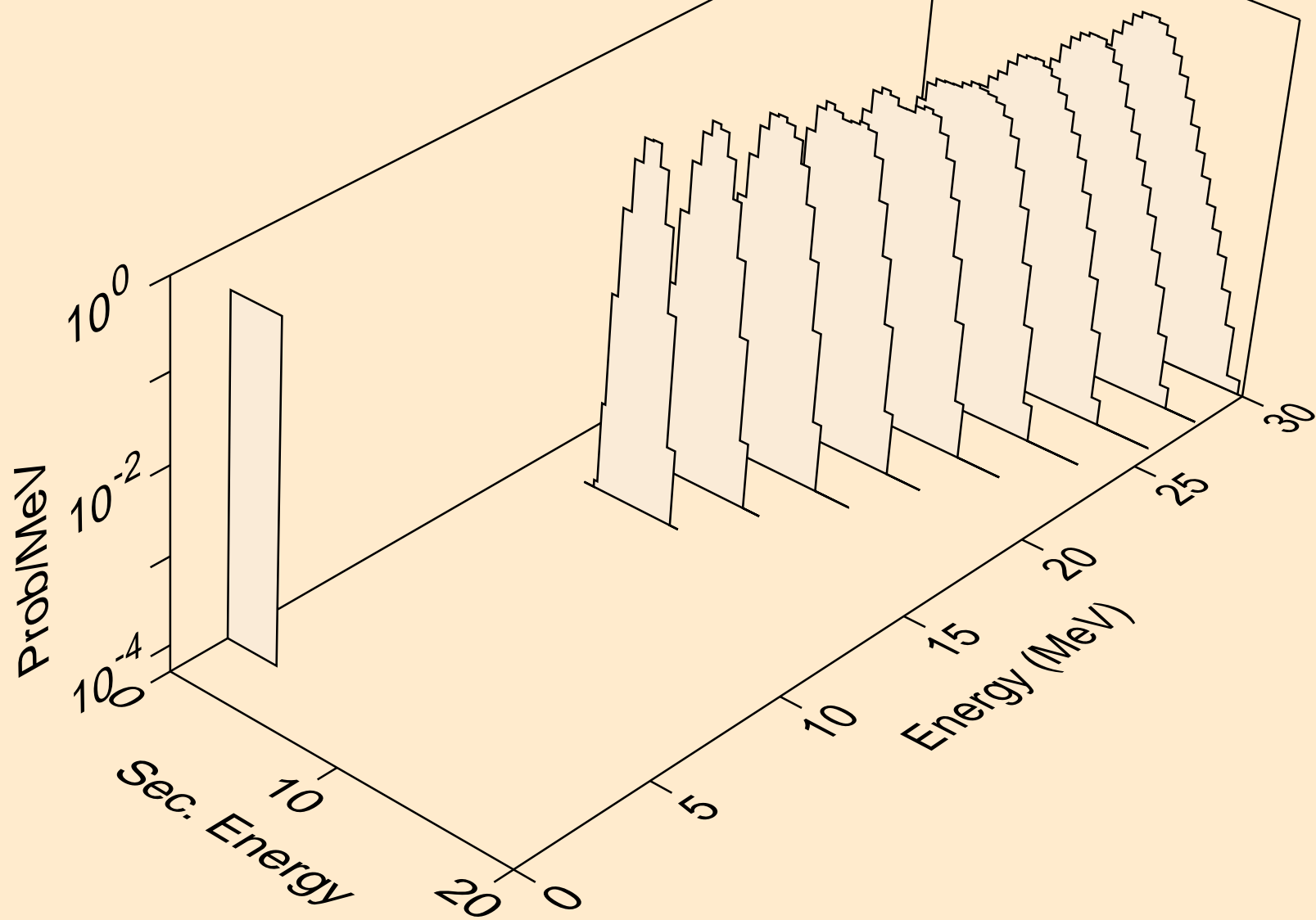


SN109 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,3n)a

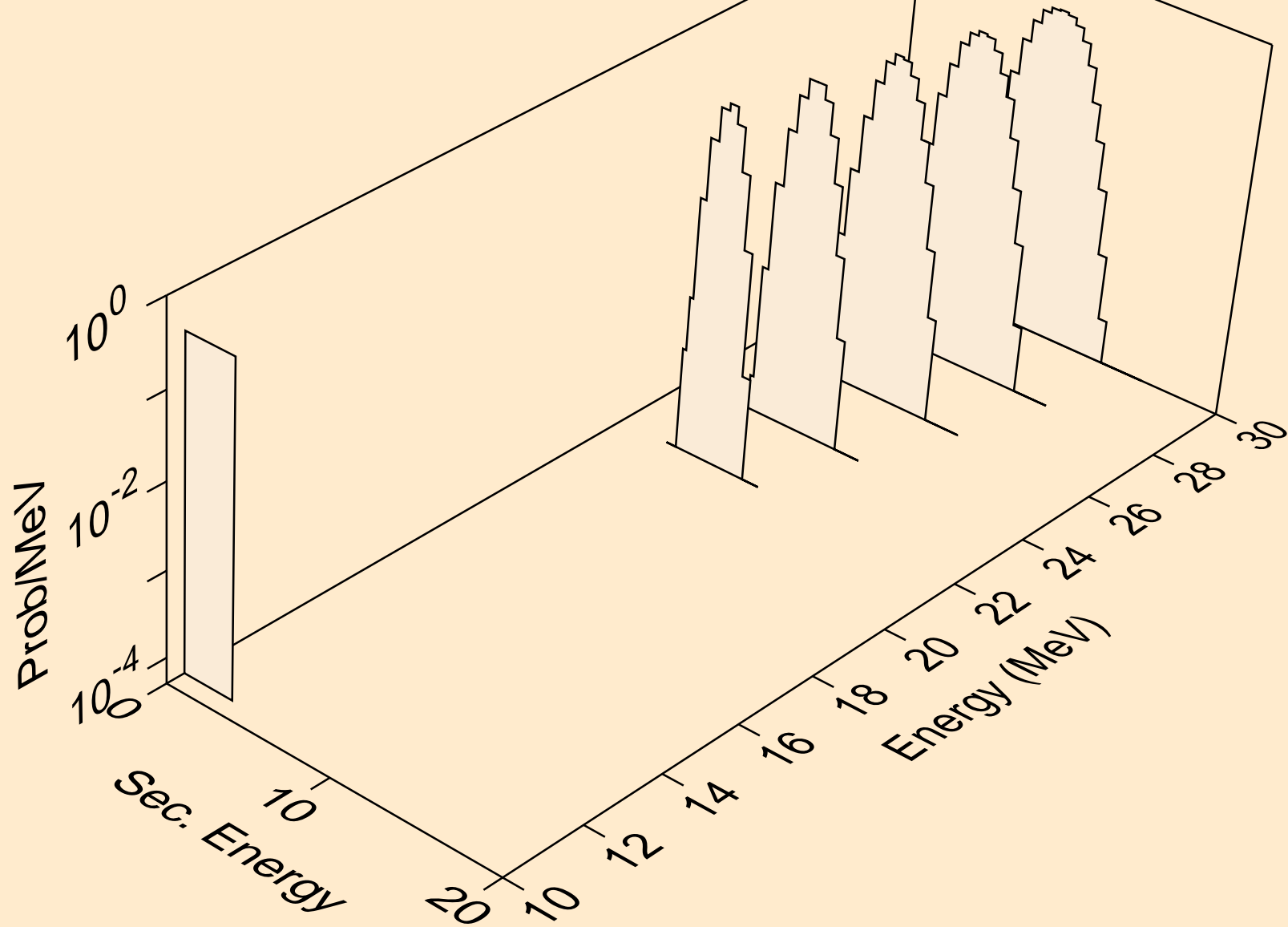




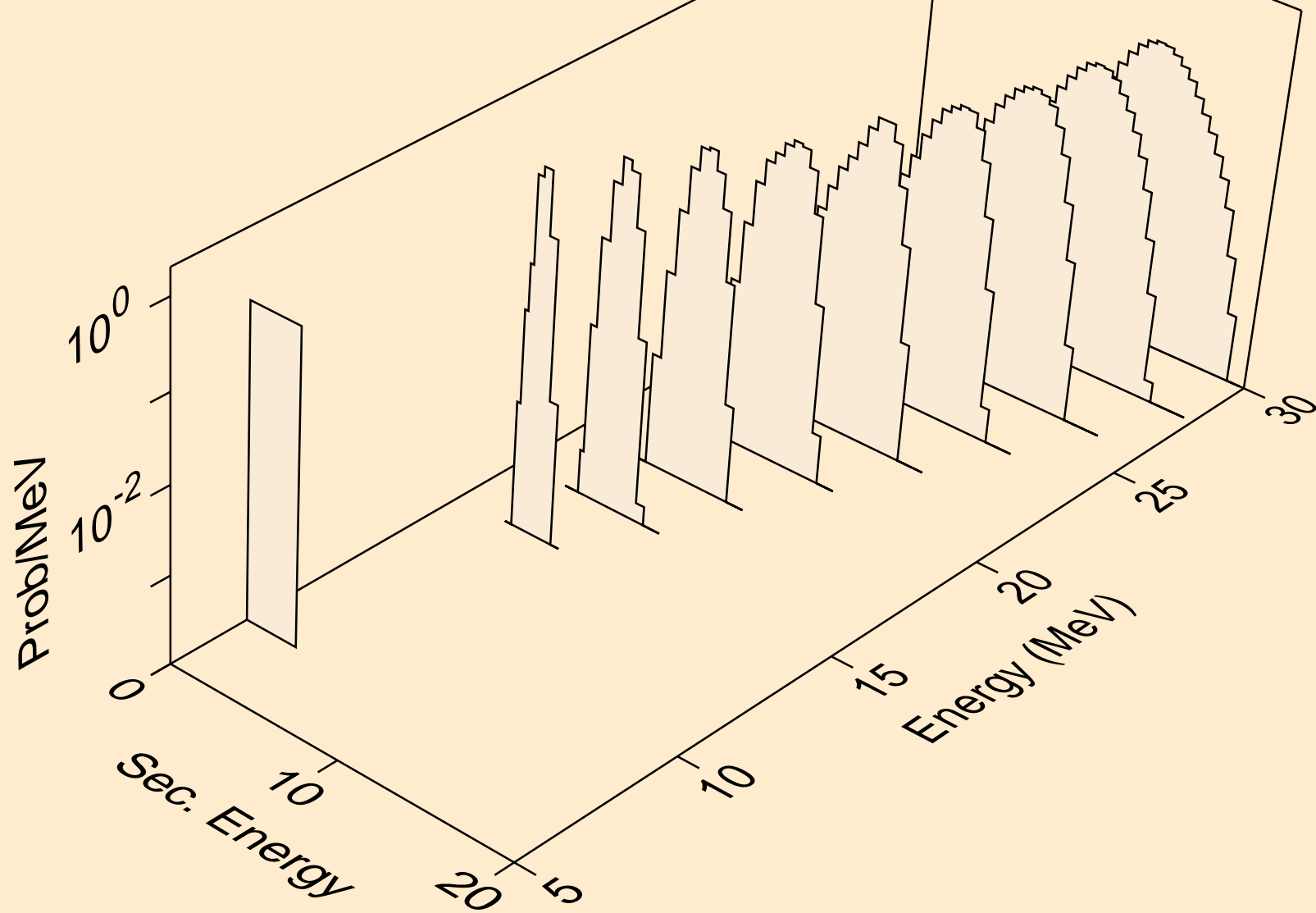
SN109 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,n\*)2a



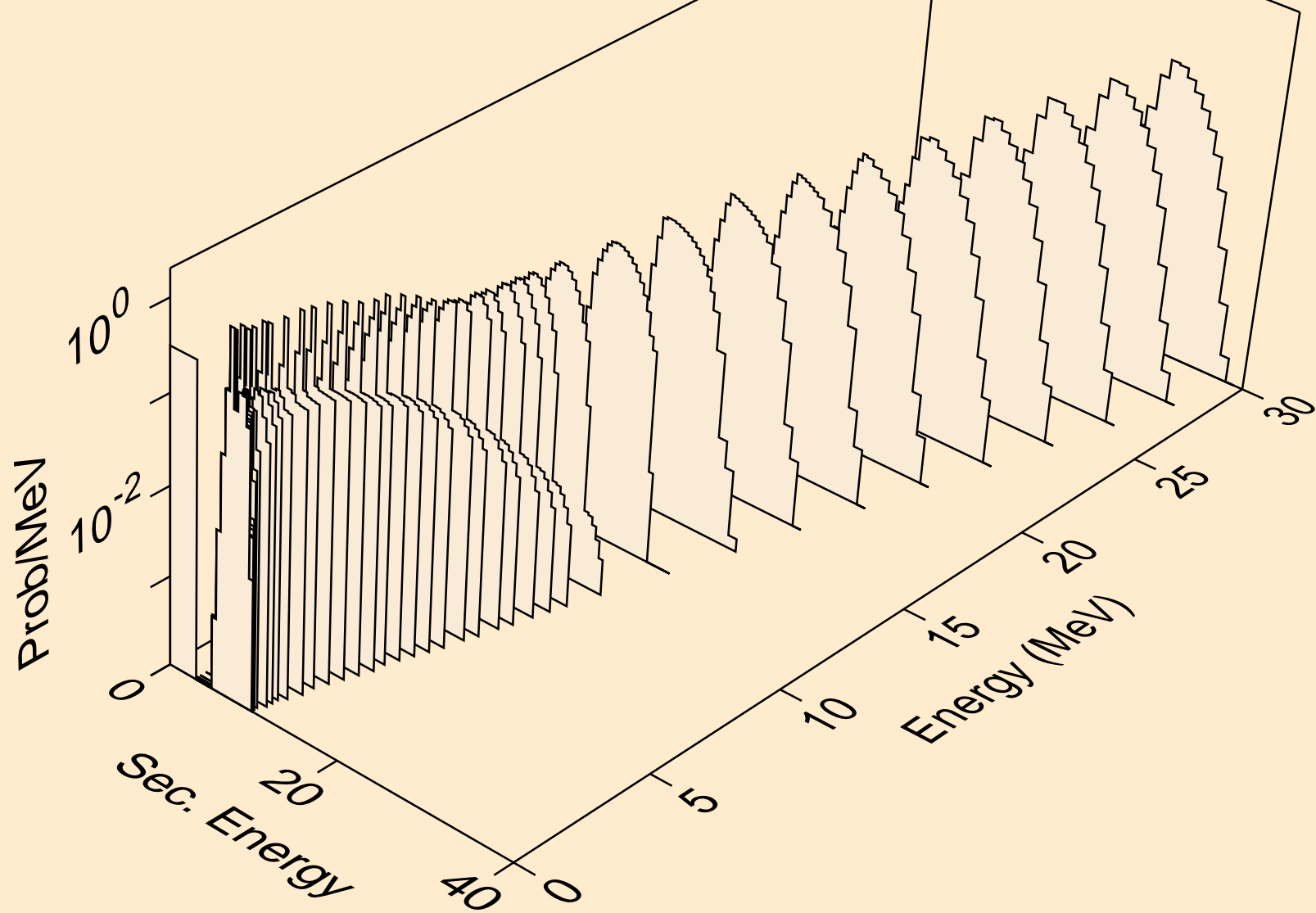
SN109 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,2n)2a



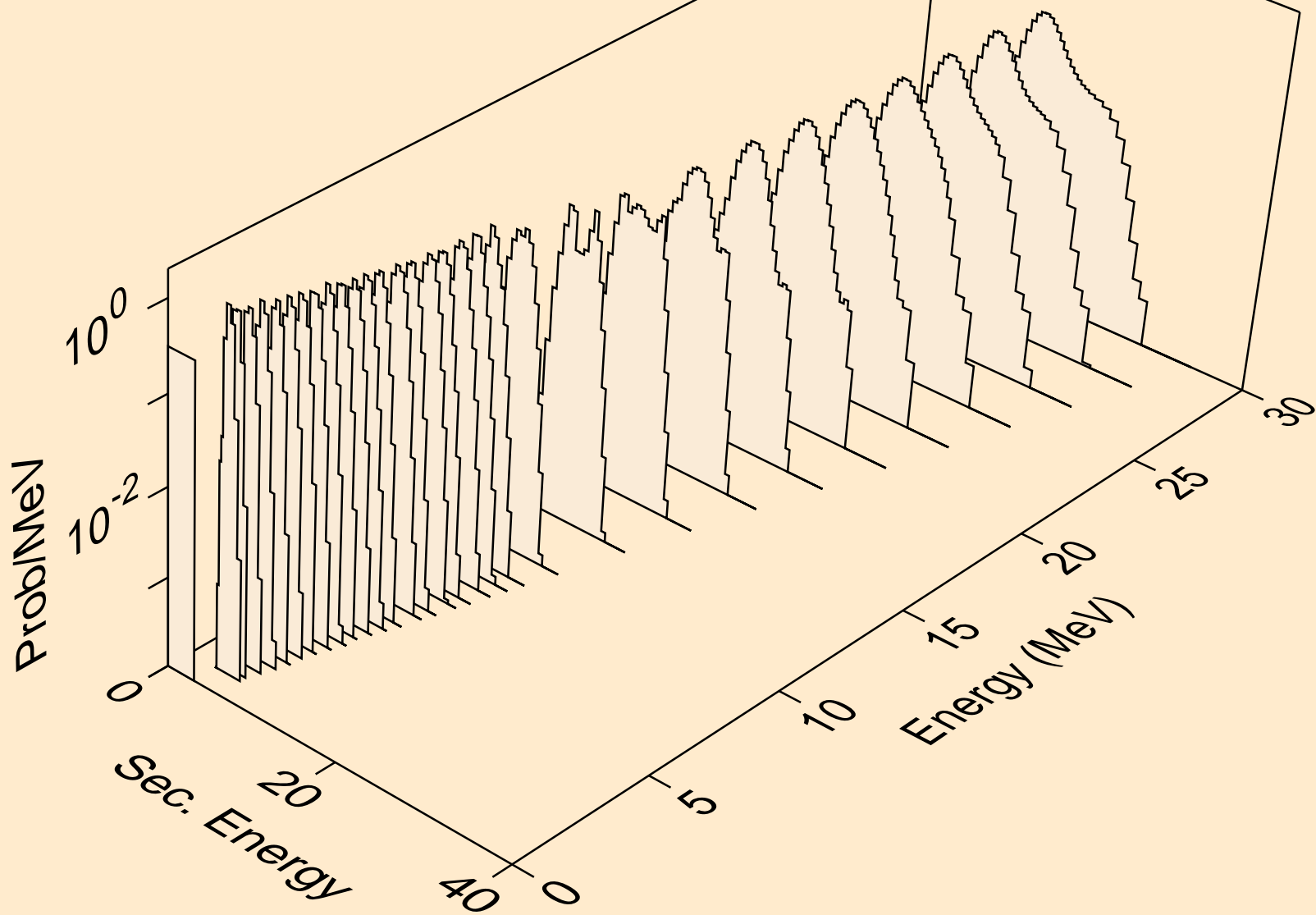
SN109 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,npa)



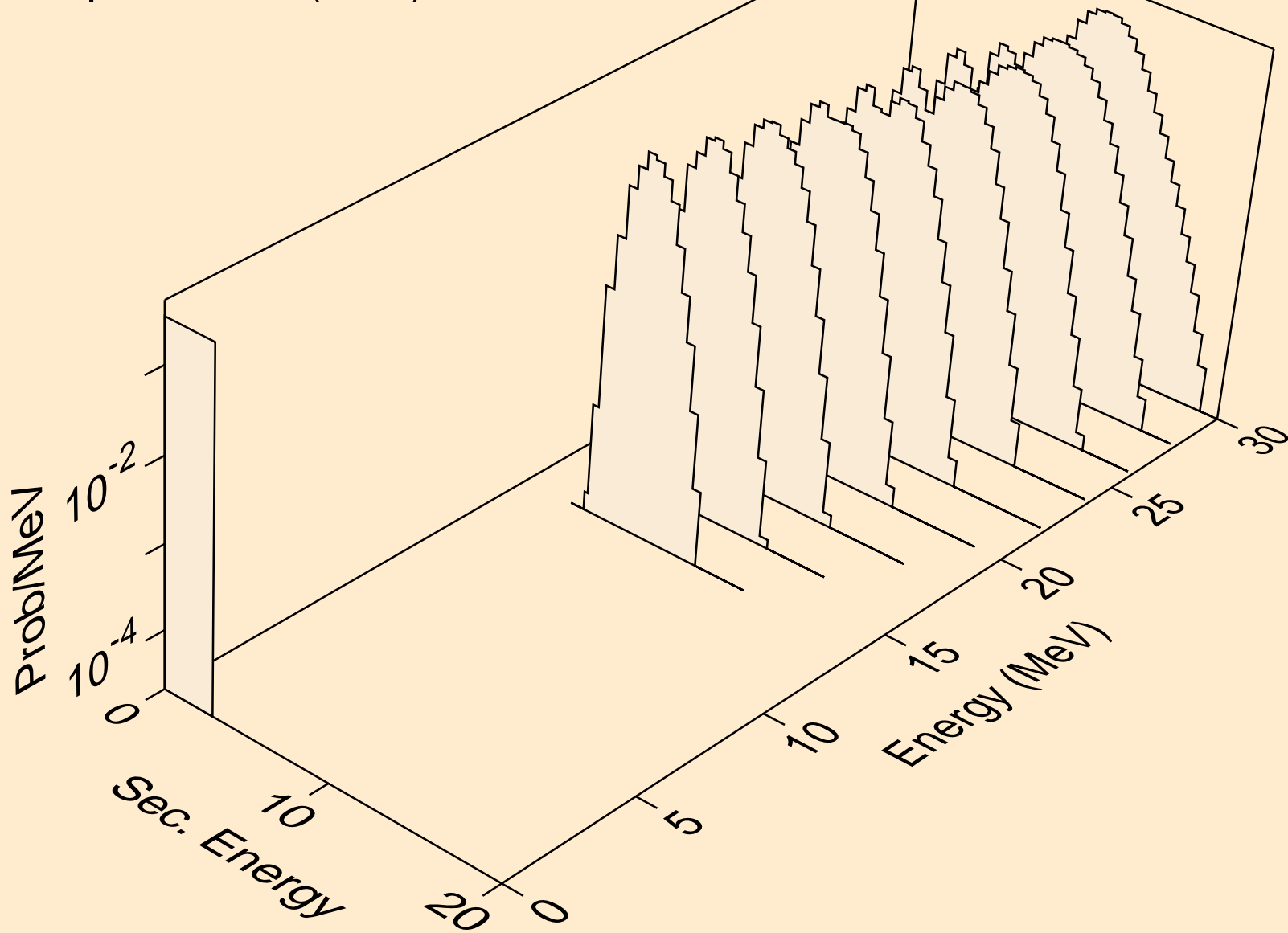
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alphas from (n,a)



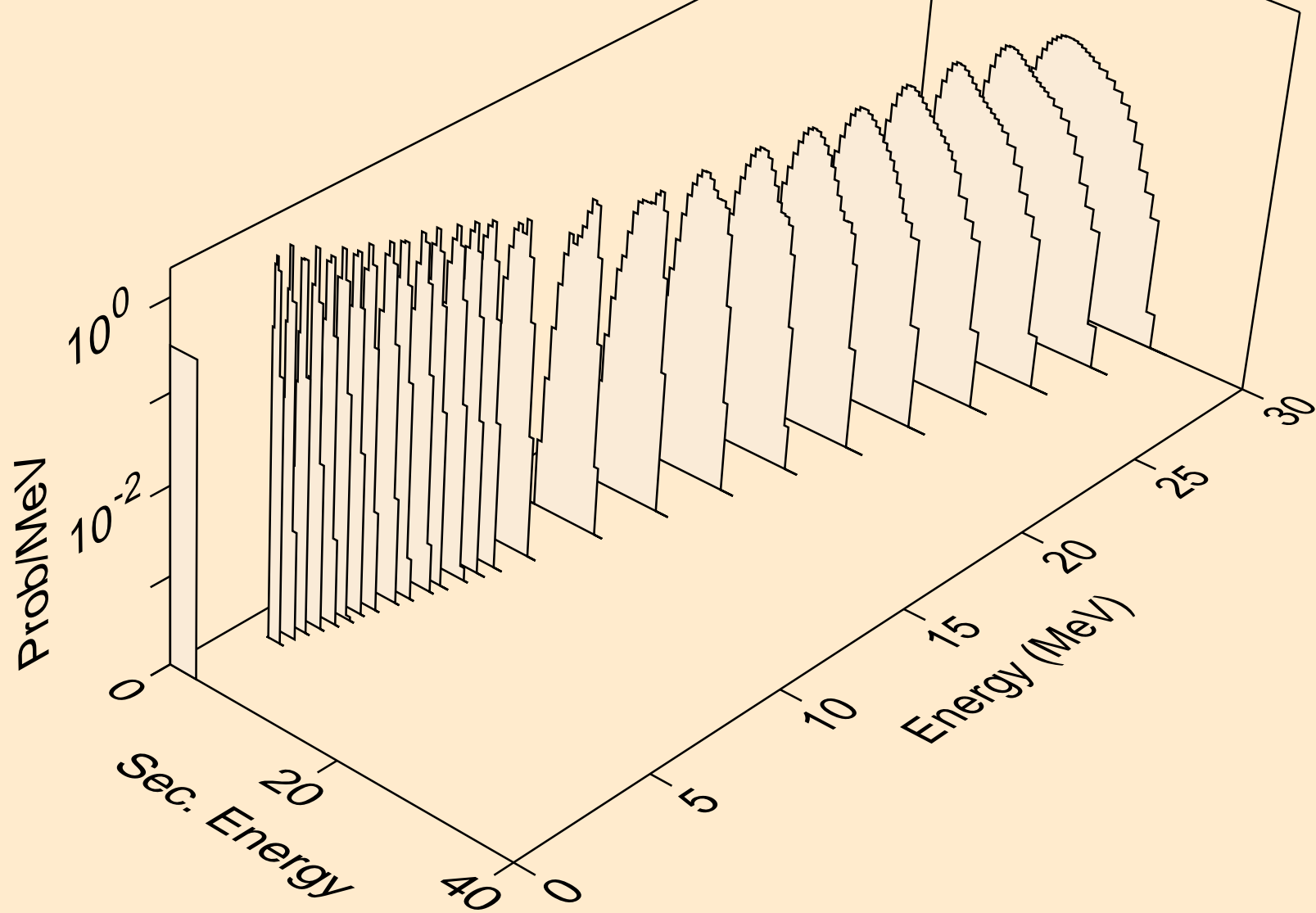
SN109 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,2a)



SN109 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,3a)



SN109 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,pa)



SN109 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,da)

