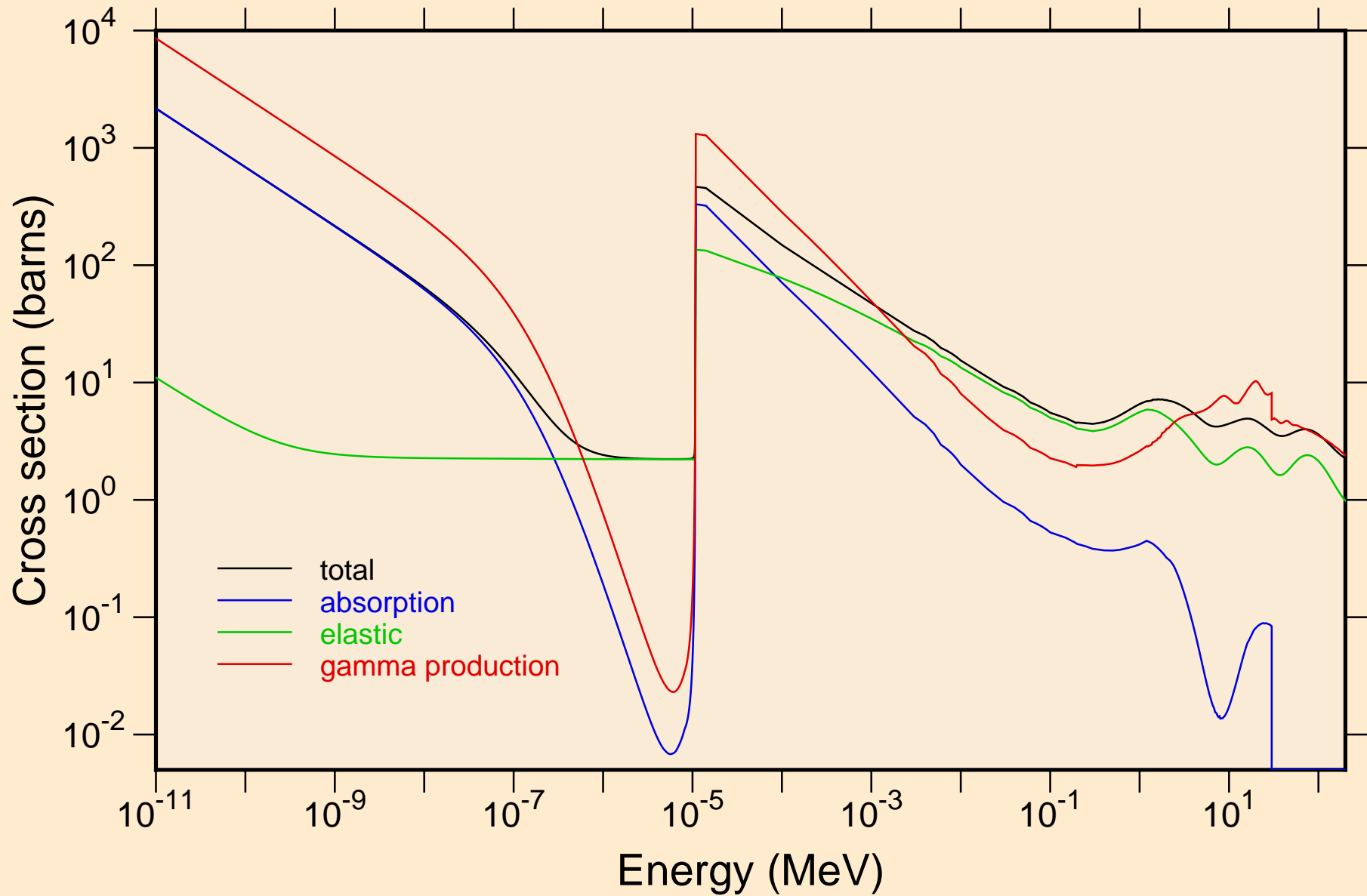
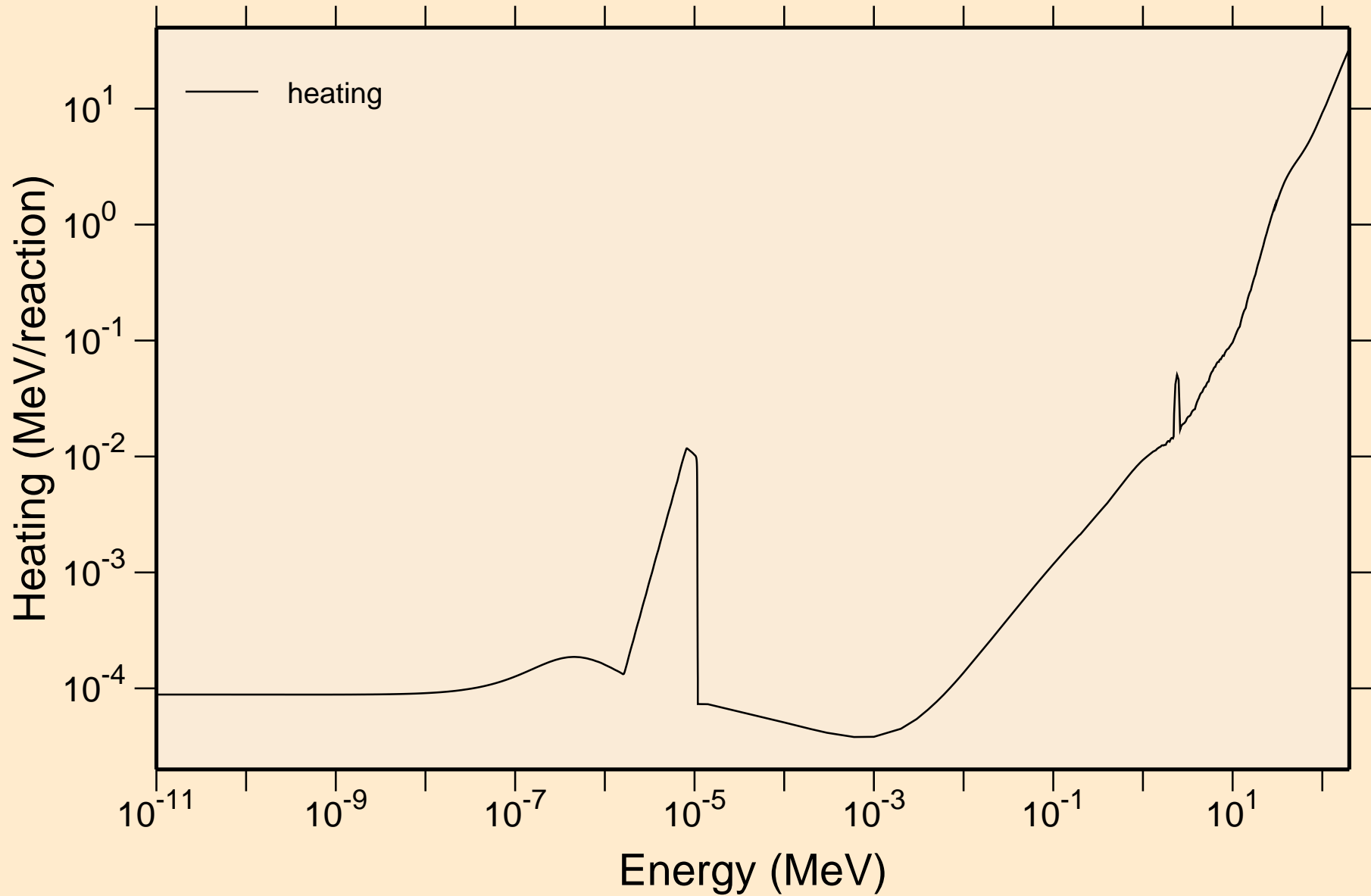


# ND141 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K

## Principal cross sections

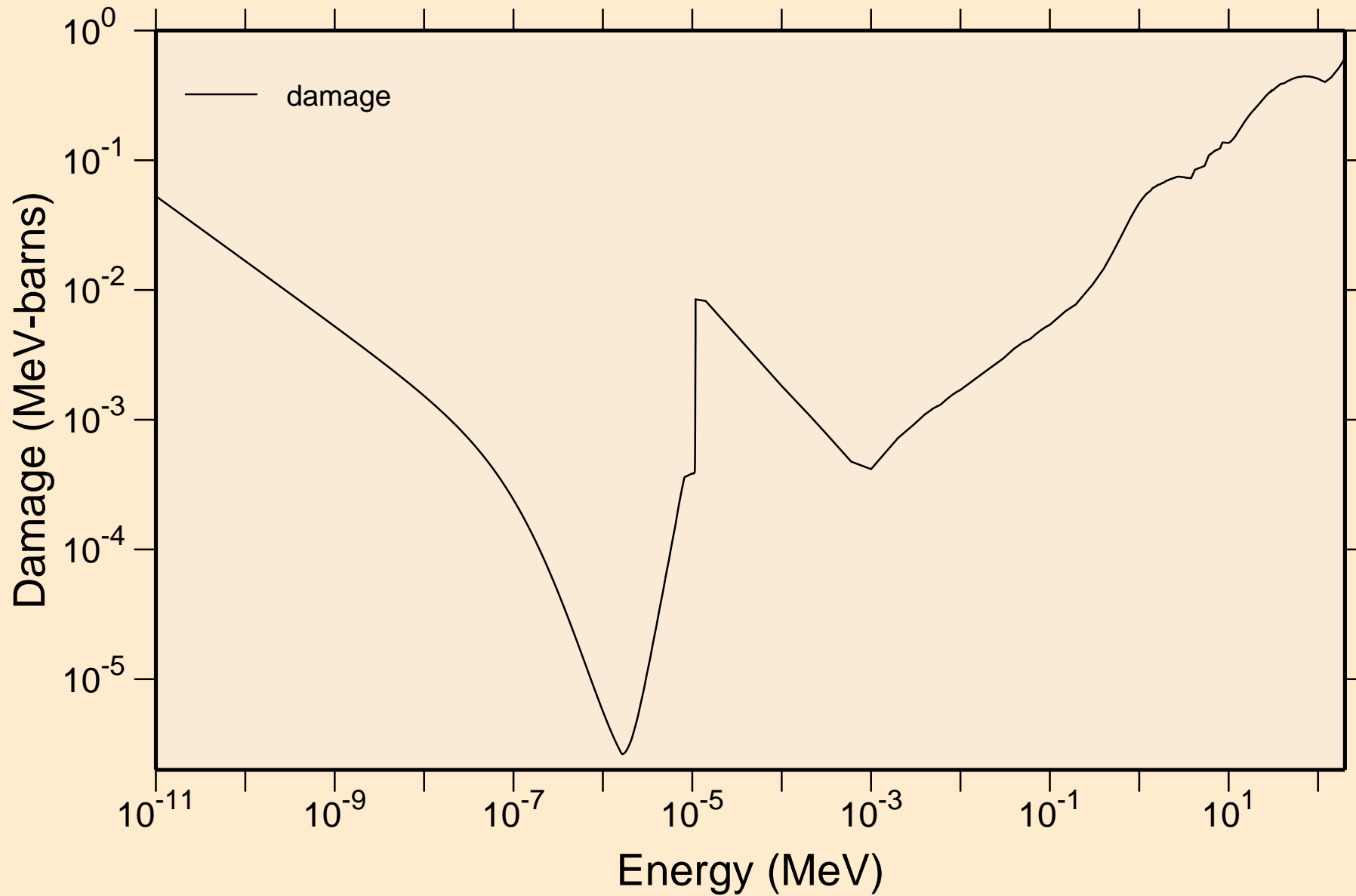


ND141 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Heating



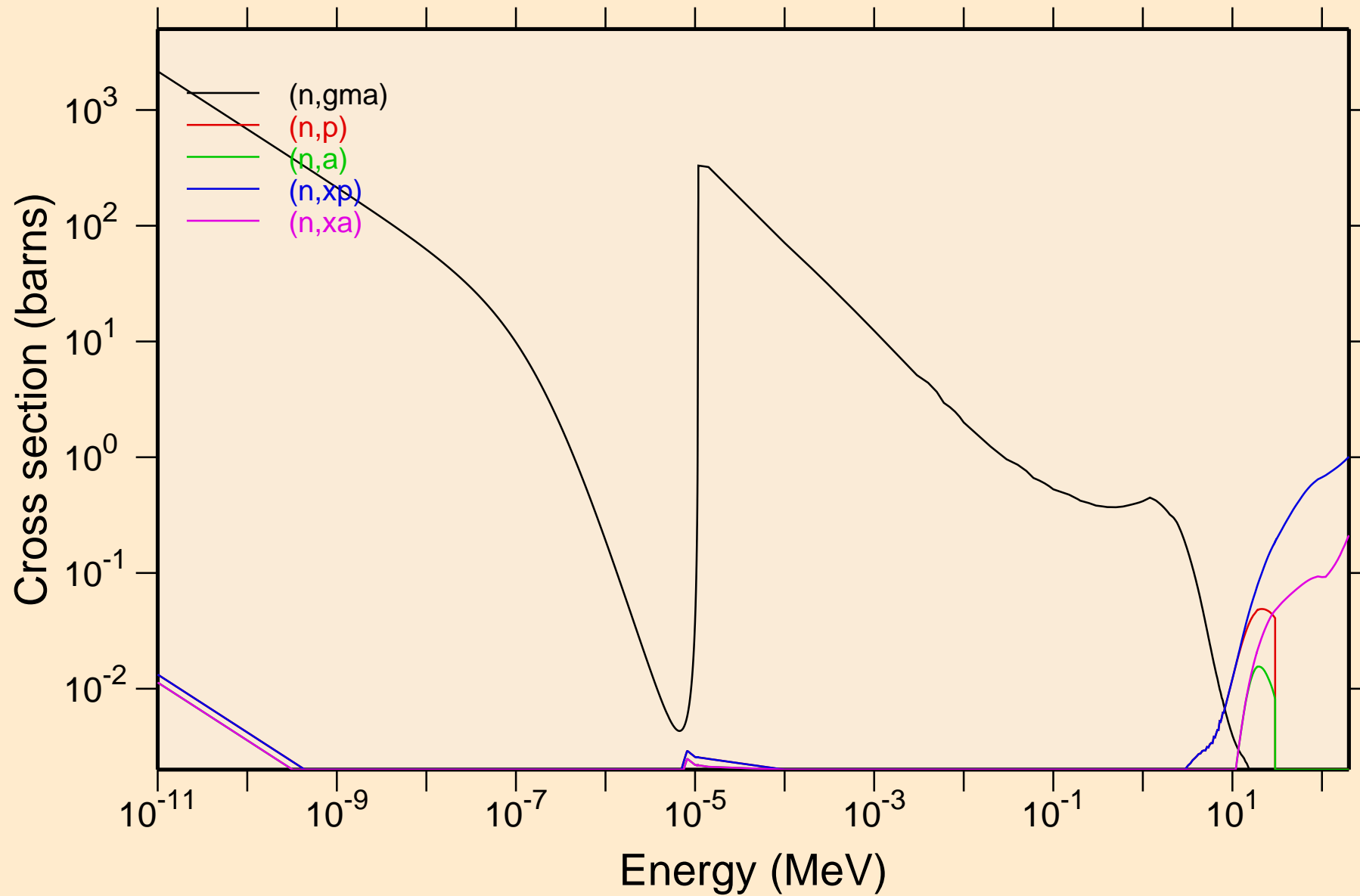
# ND141 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K

## Damage



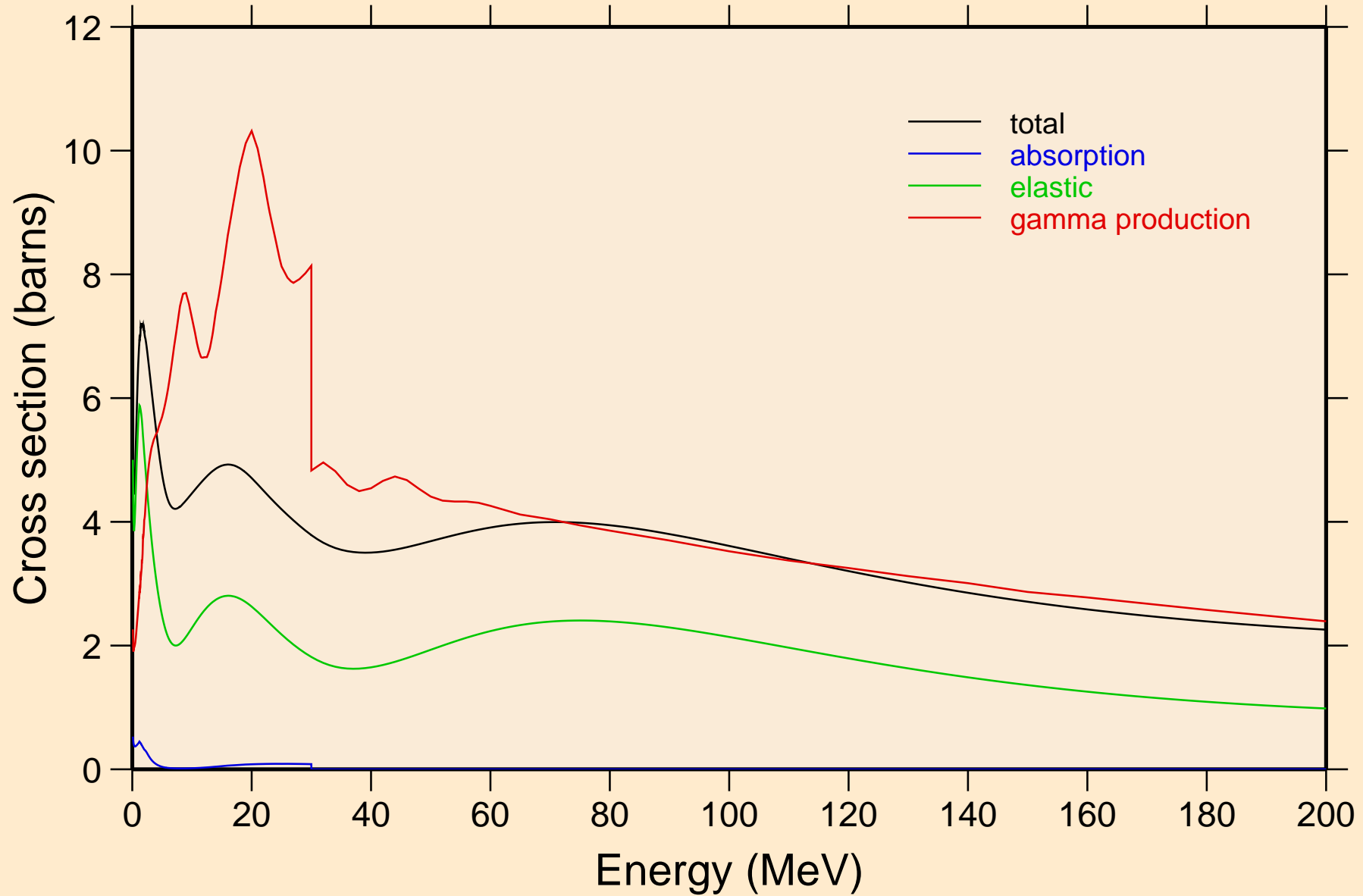
# ND141 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K

## Non-threshold reactions

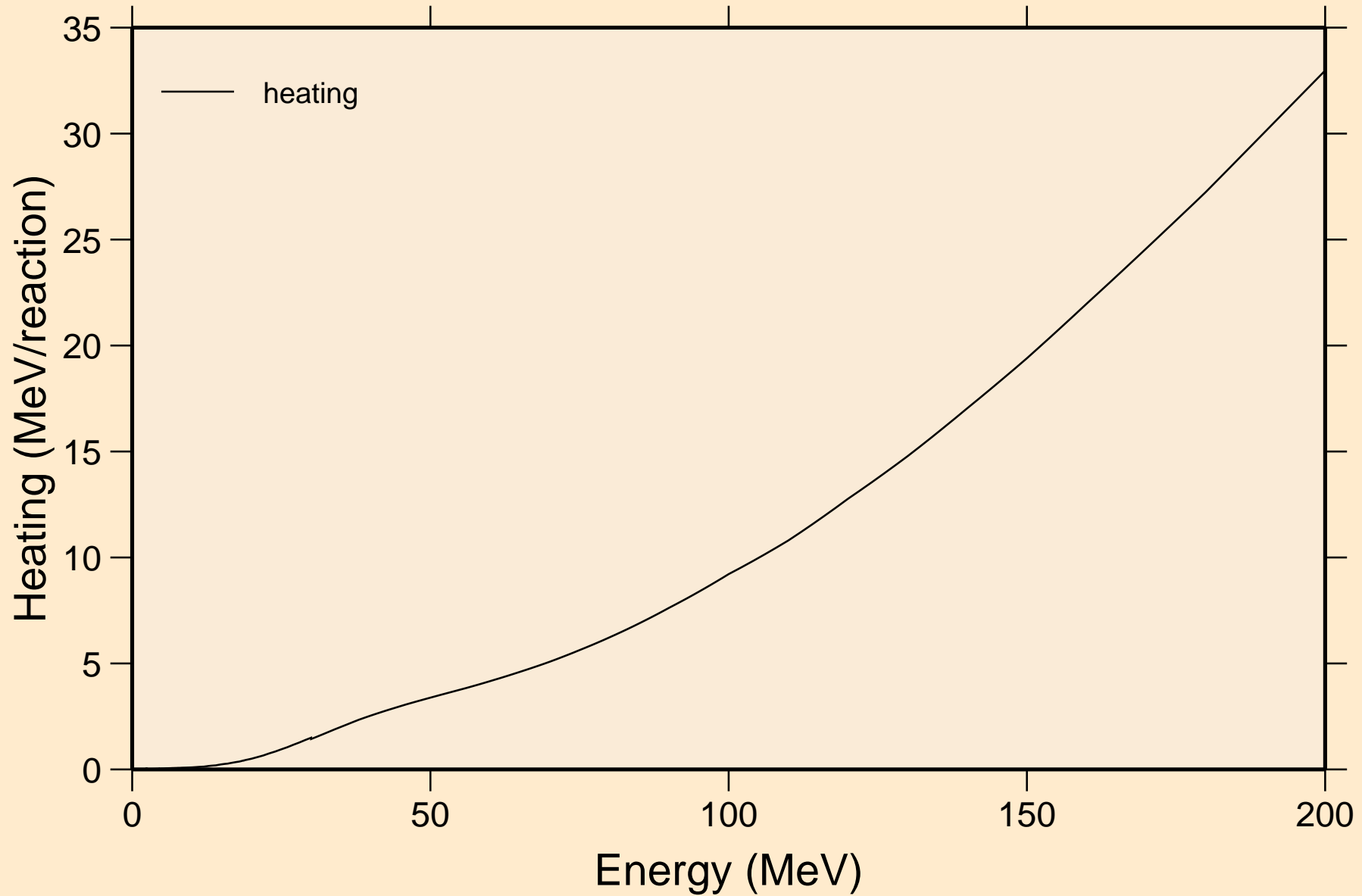


# ND141 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K

## Principal cross sections

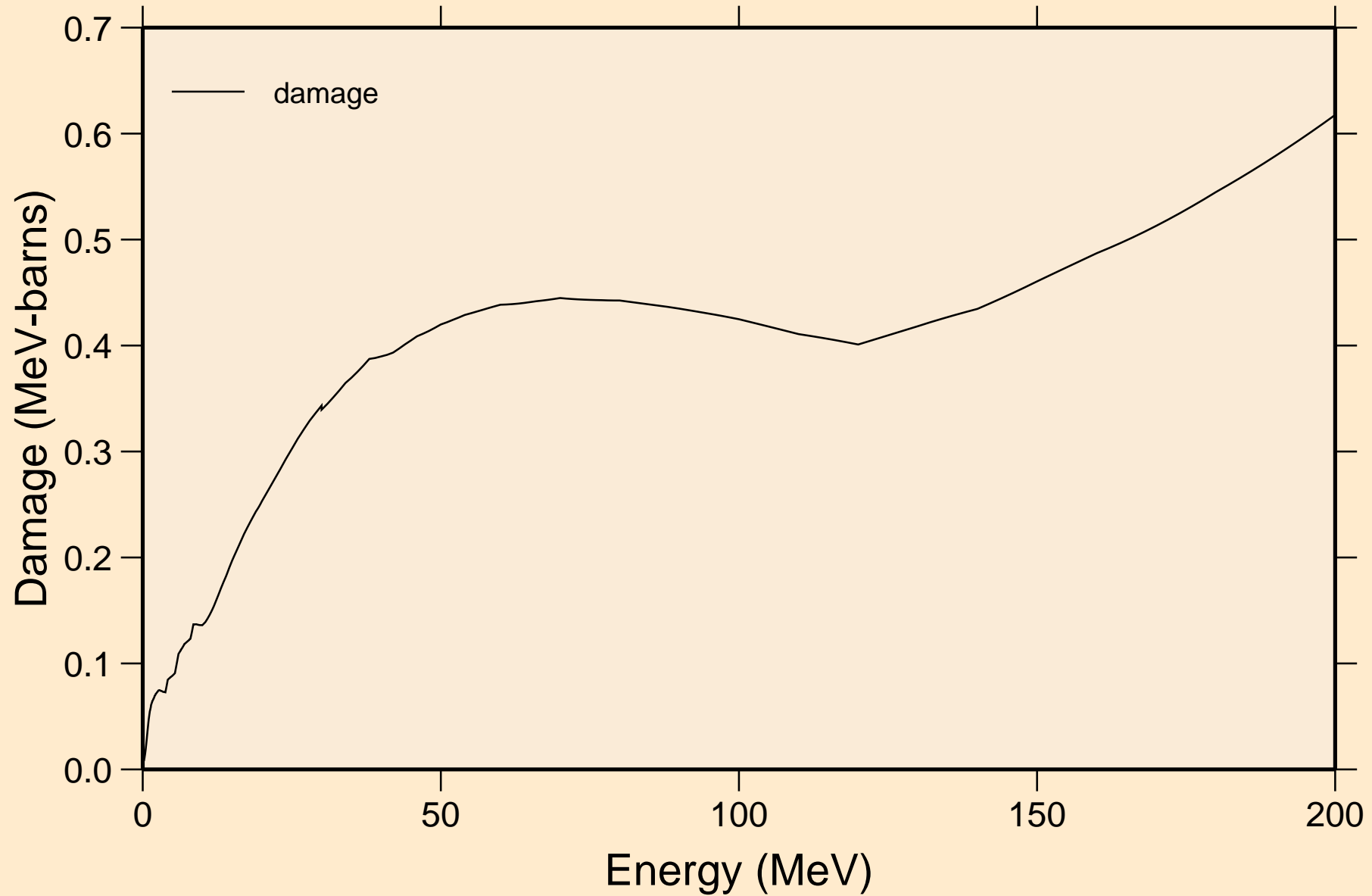


ND141 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Heating



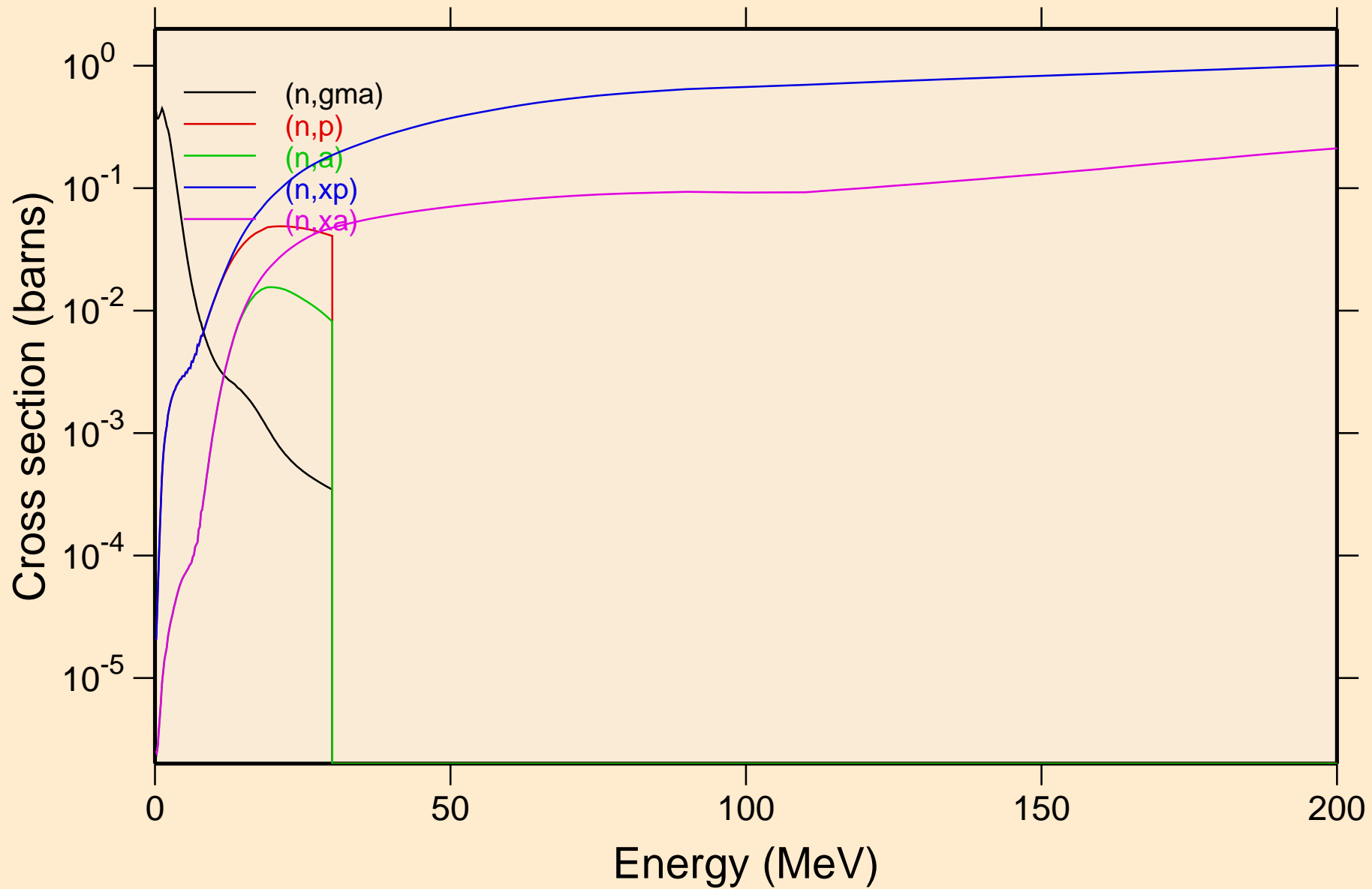
# ND141 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K

## Damage

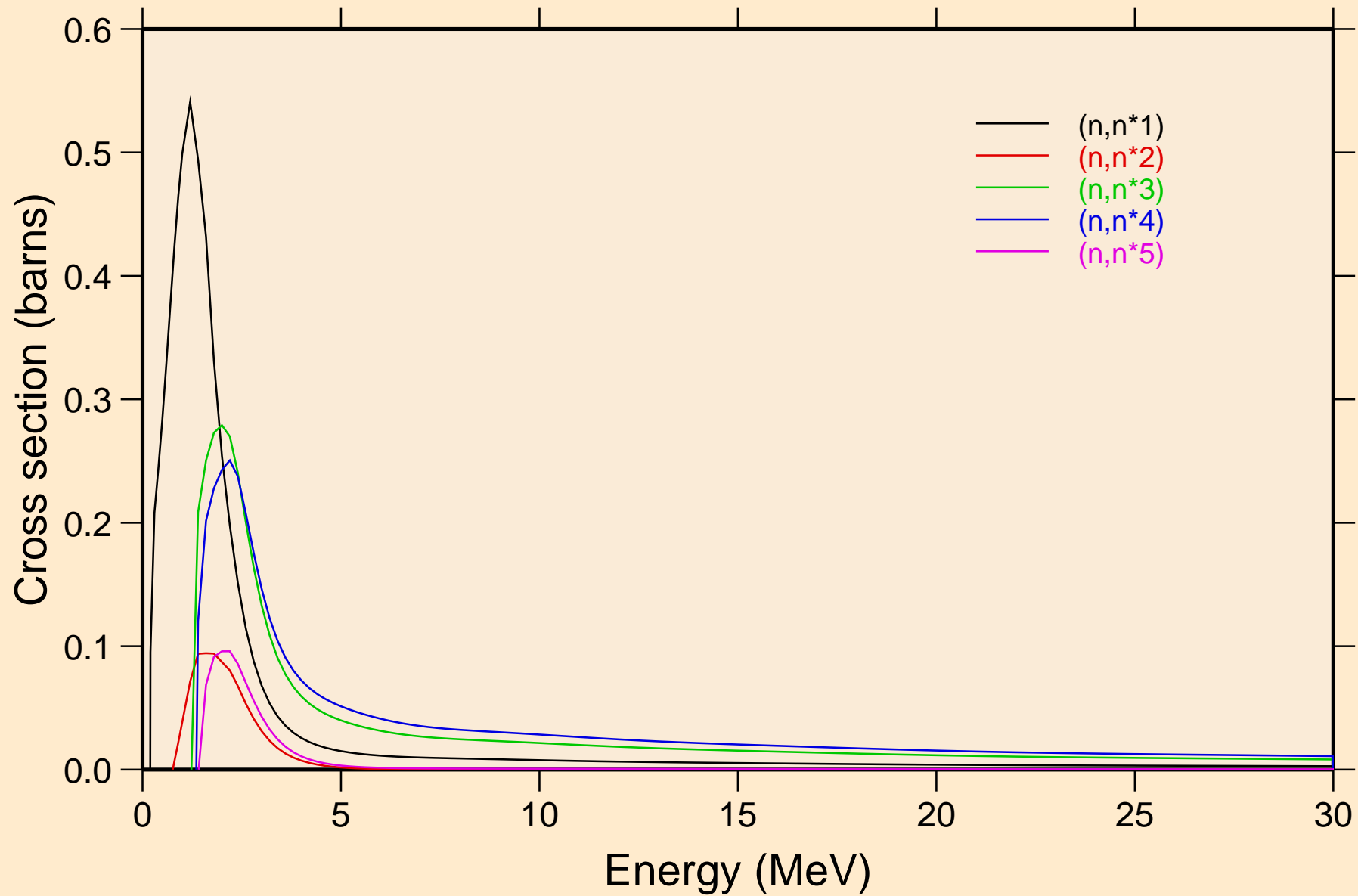


# ND141 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K

## Non-threshold reactions

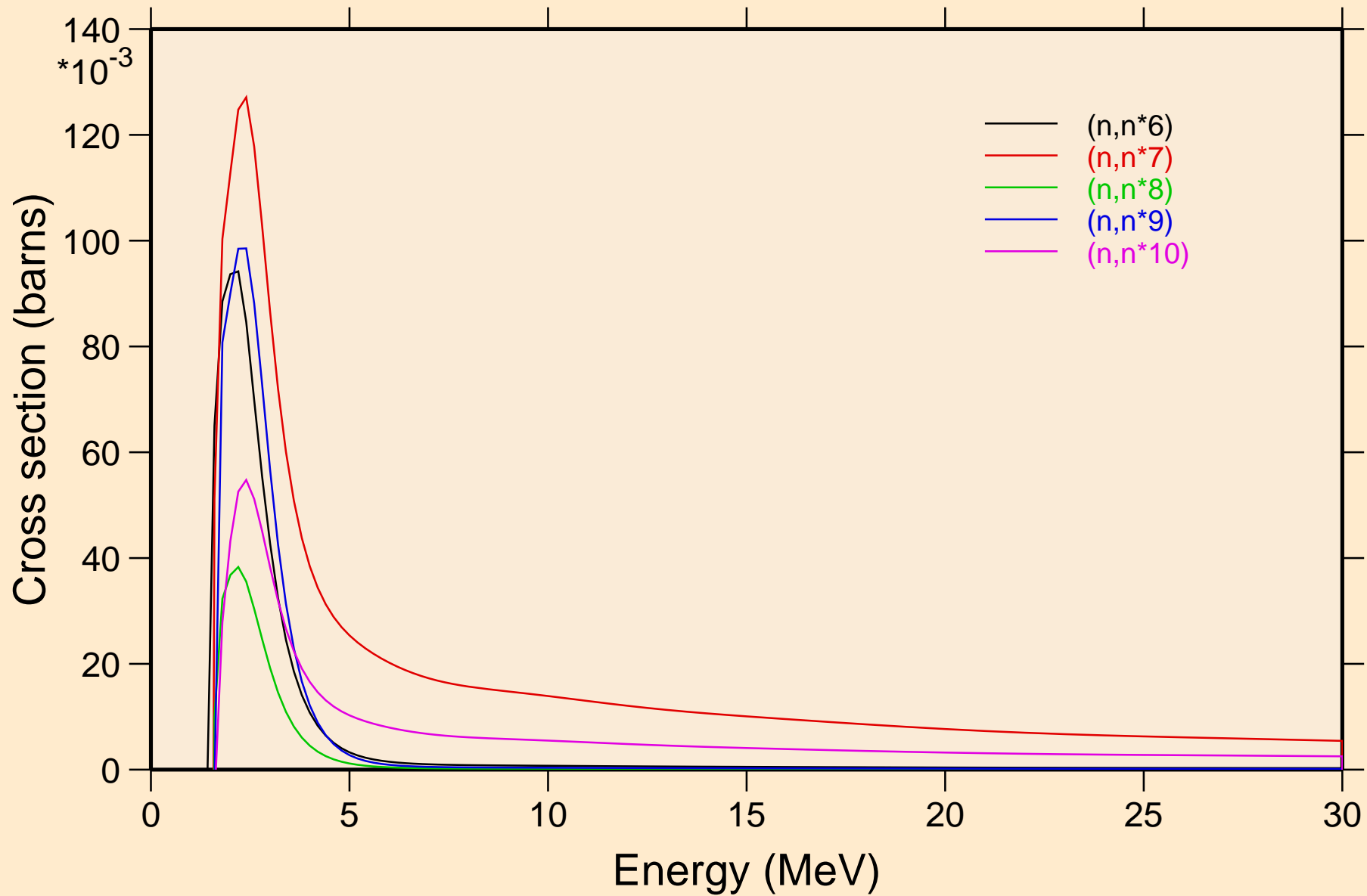


ND141 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Inelastic levels

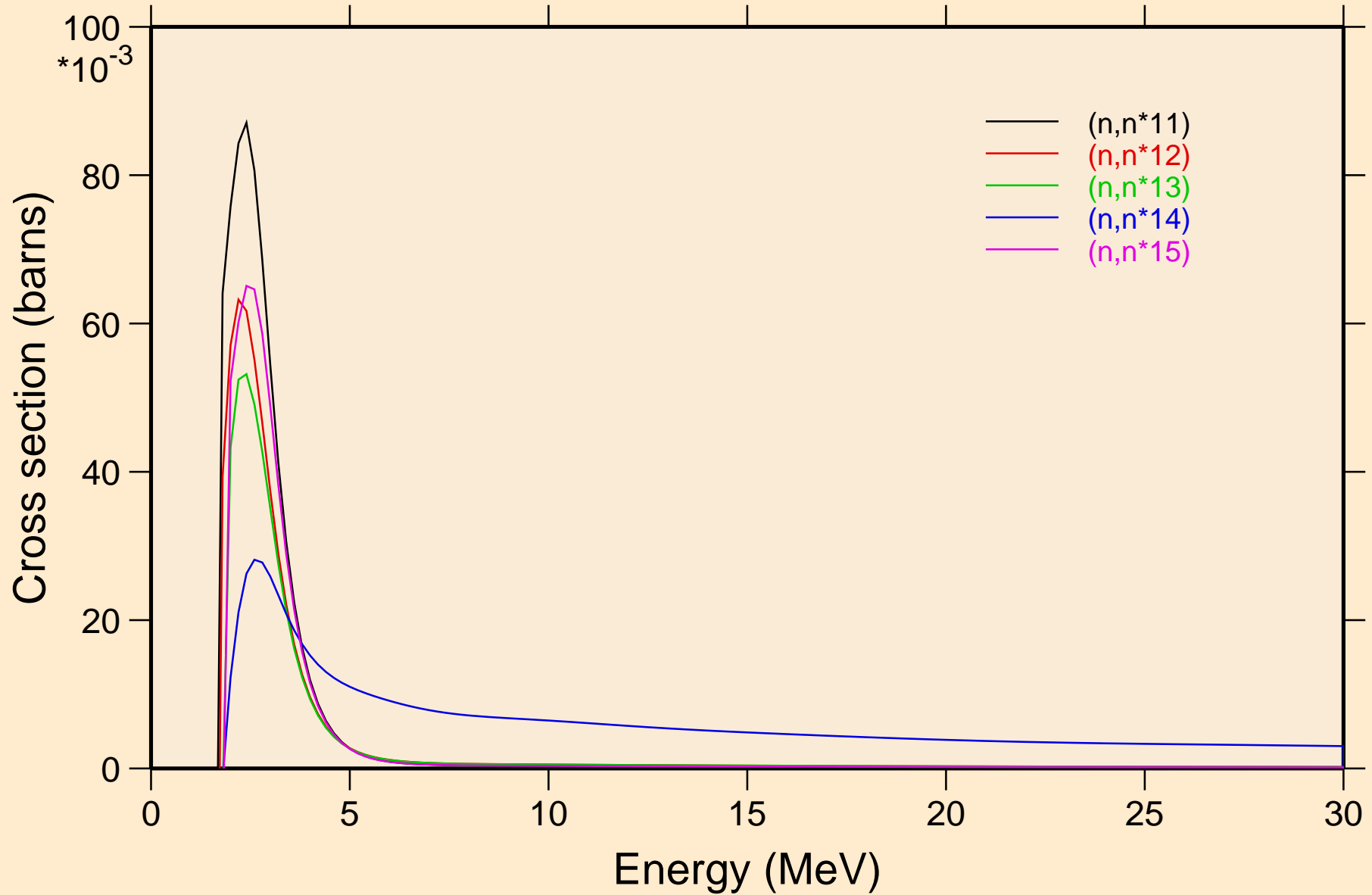


# ND141 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K

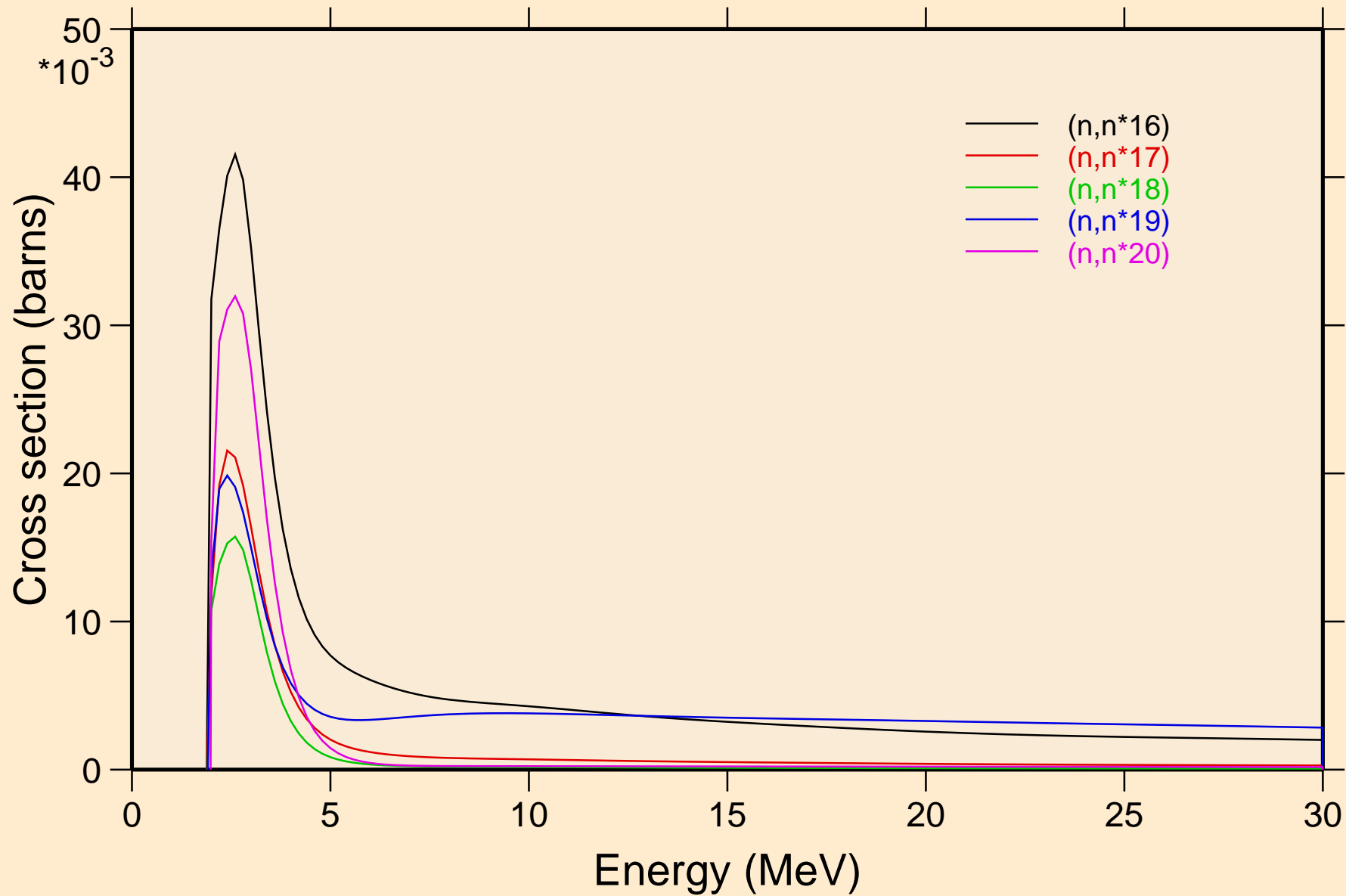
## Inelastic levels



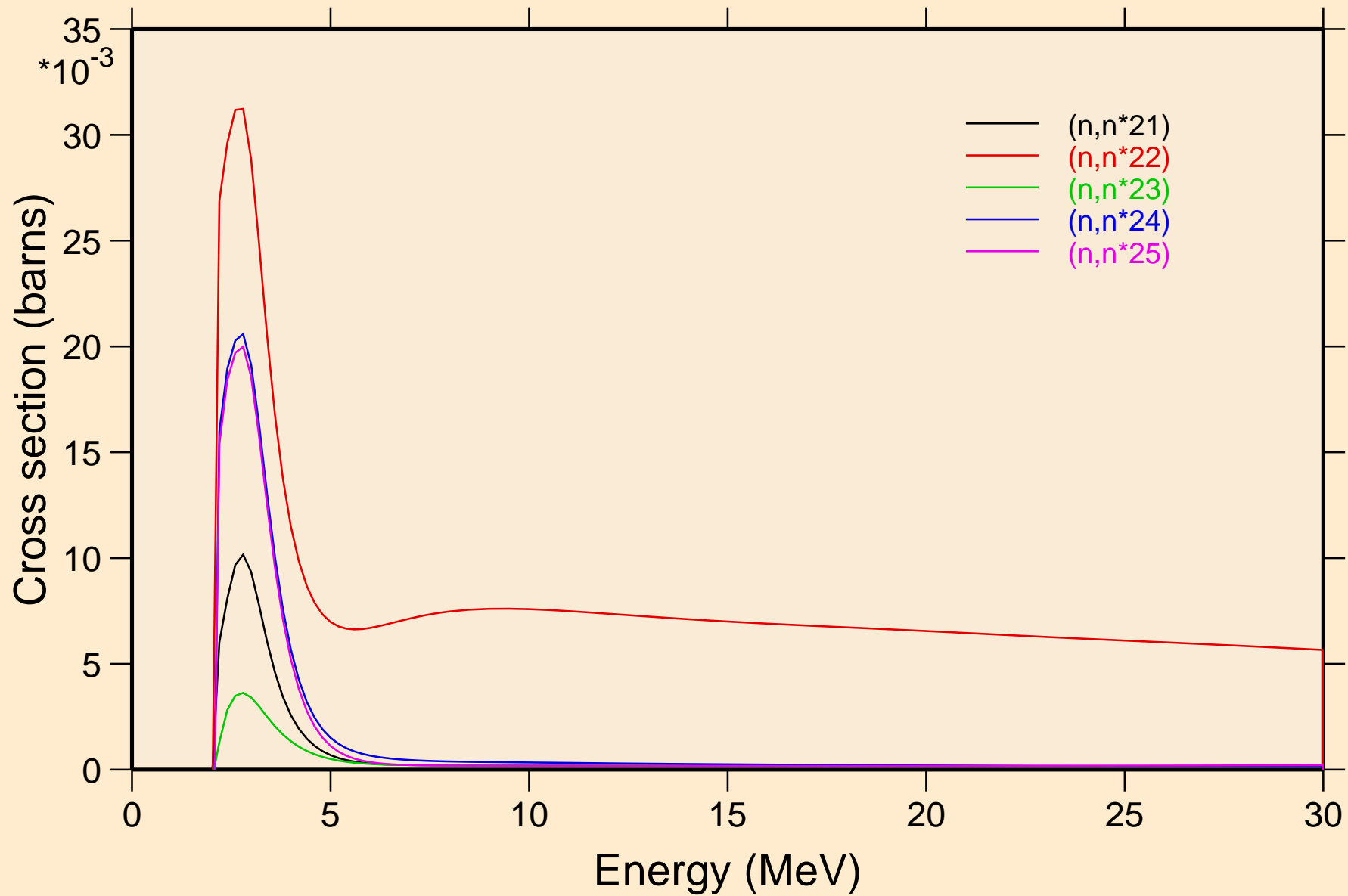
ND141 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Inelastic levels



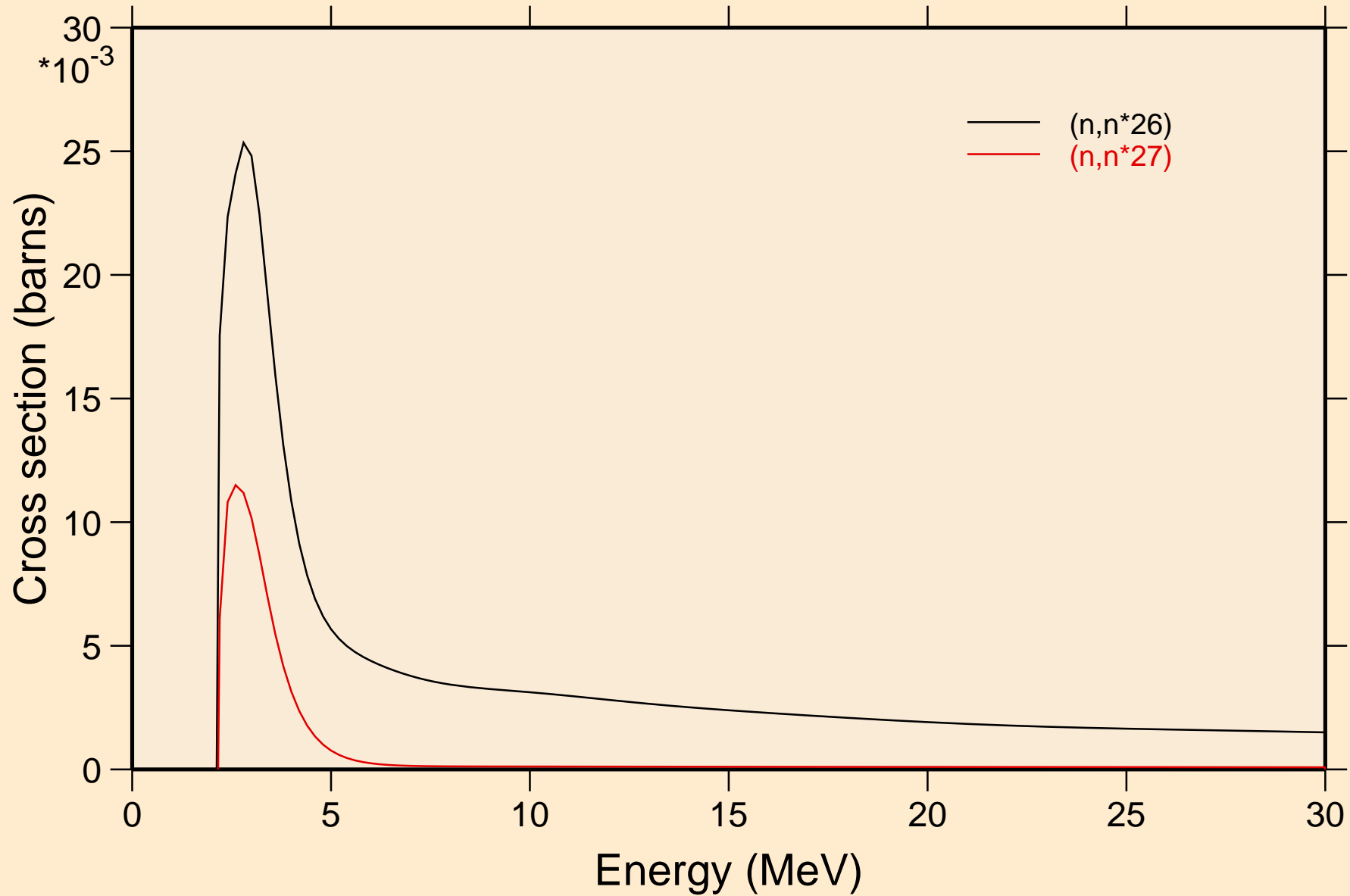
ND141 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Inelastic levels



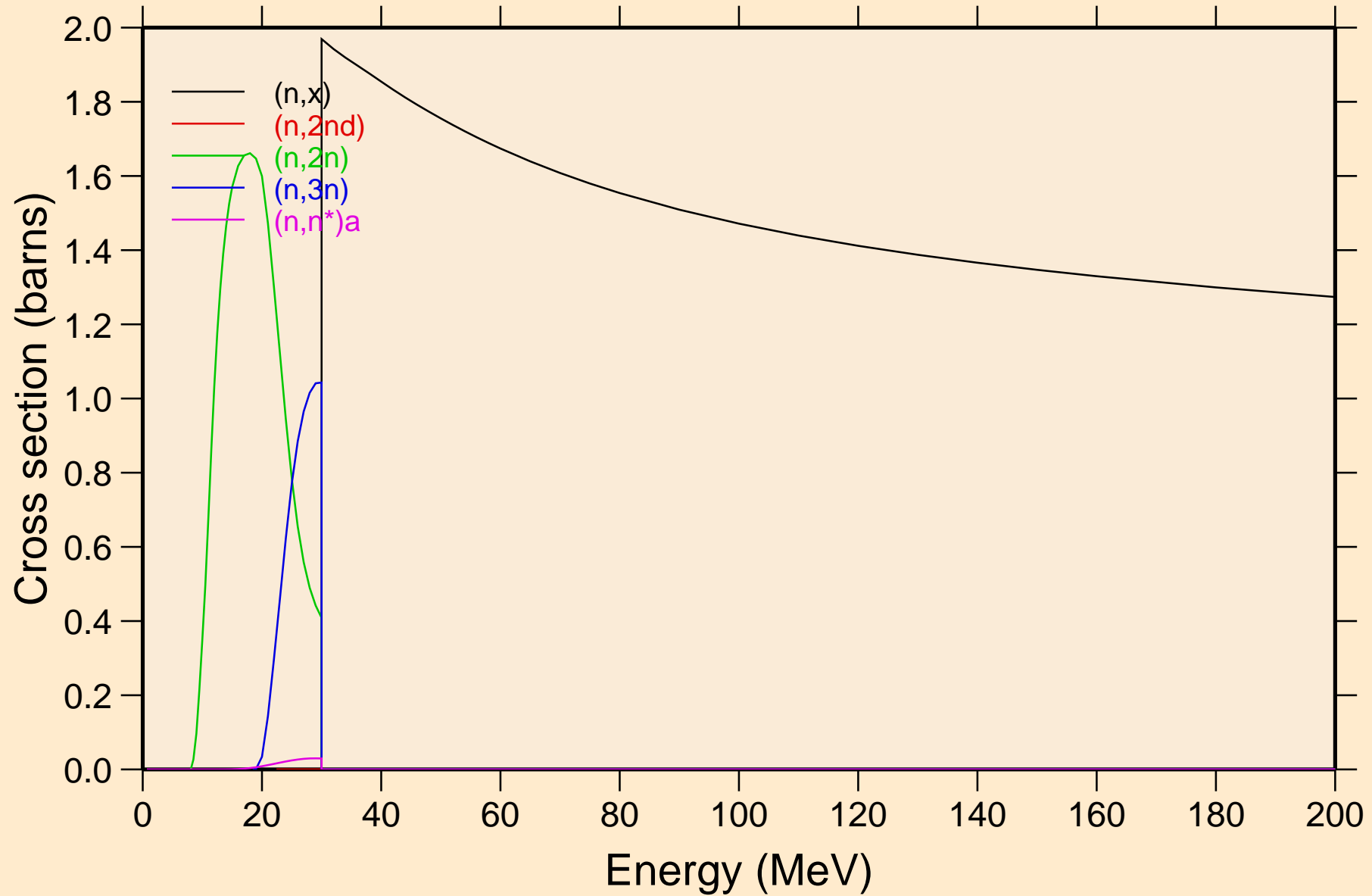
ND141 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Inelastic levels



ND141 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Inelastic levels

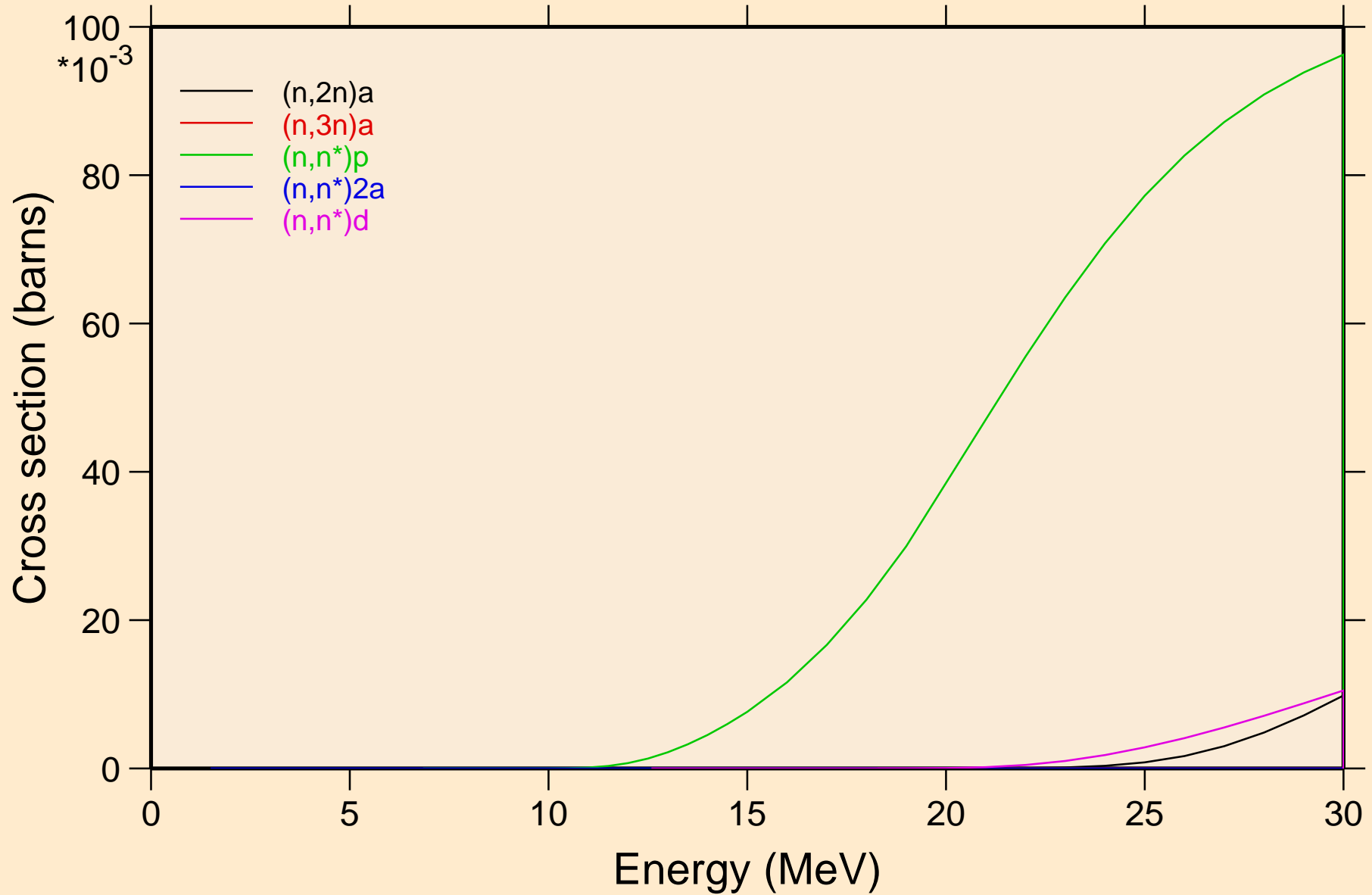


ND141 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Threshold reactions



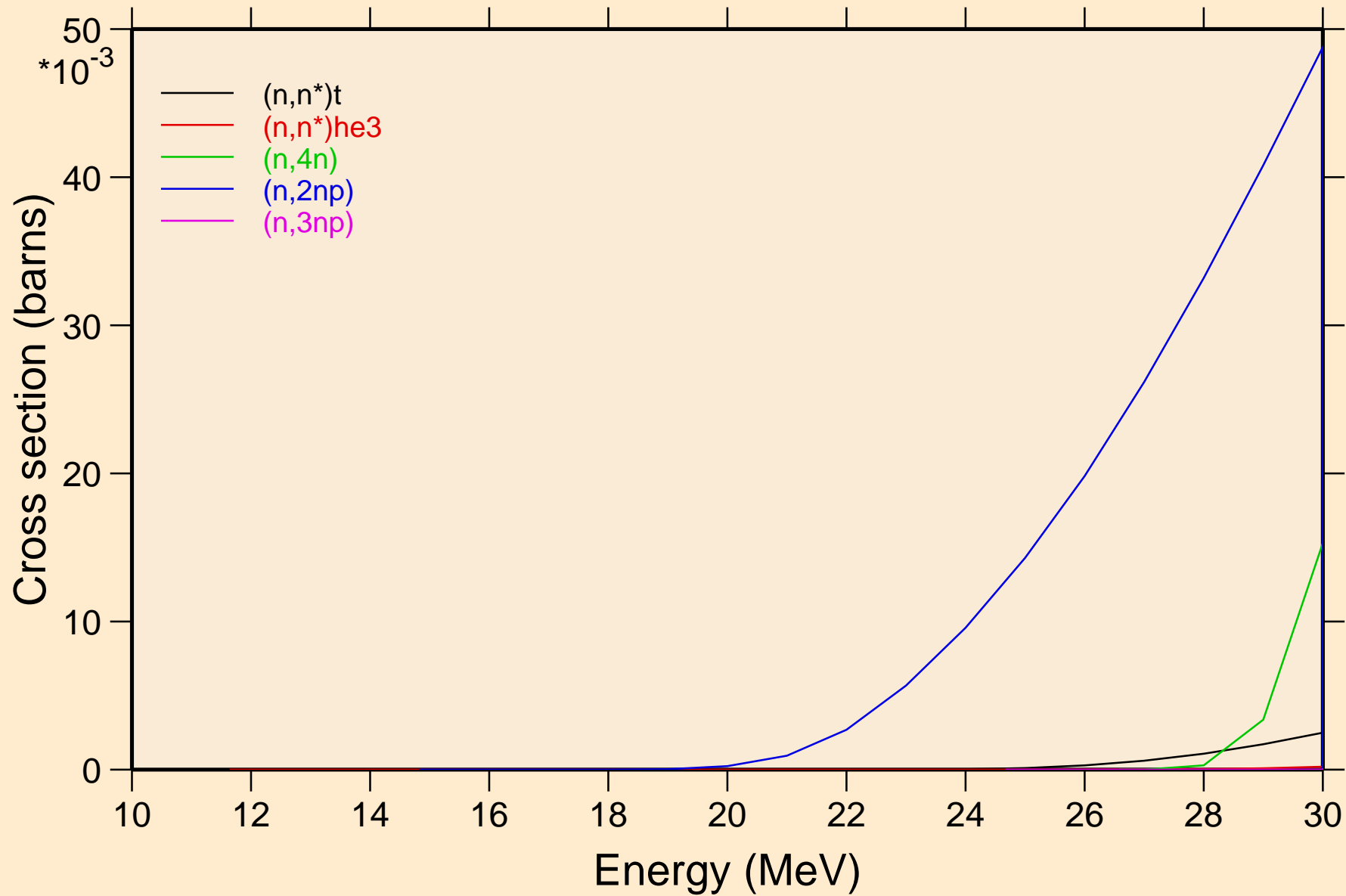
# ND141 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K

## Threshold reactions



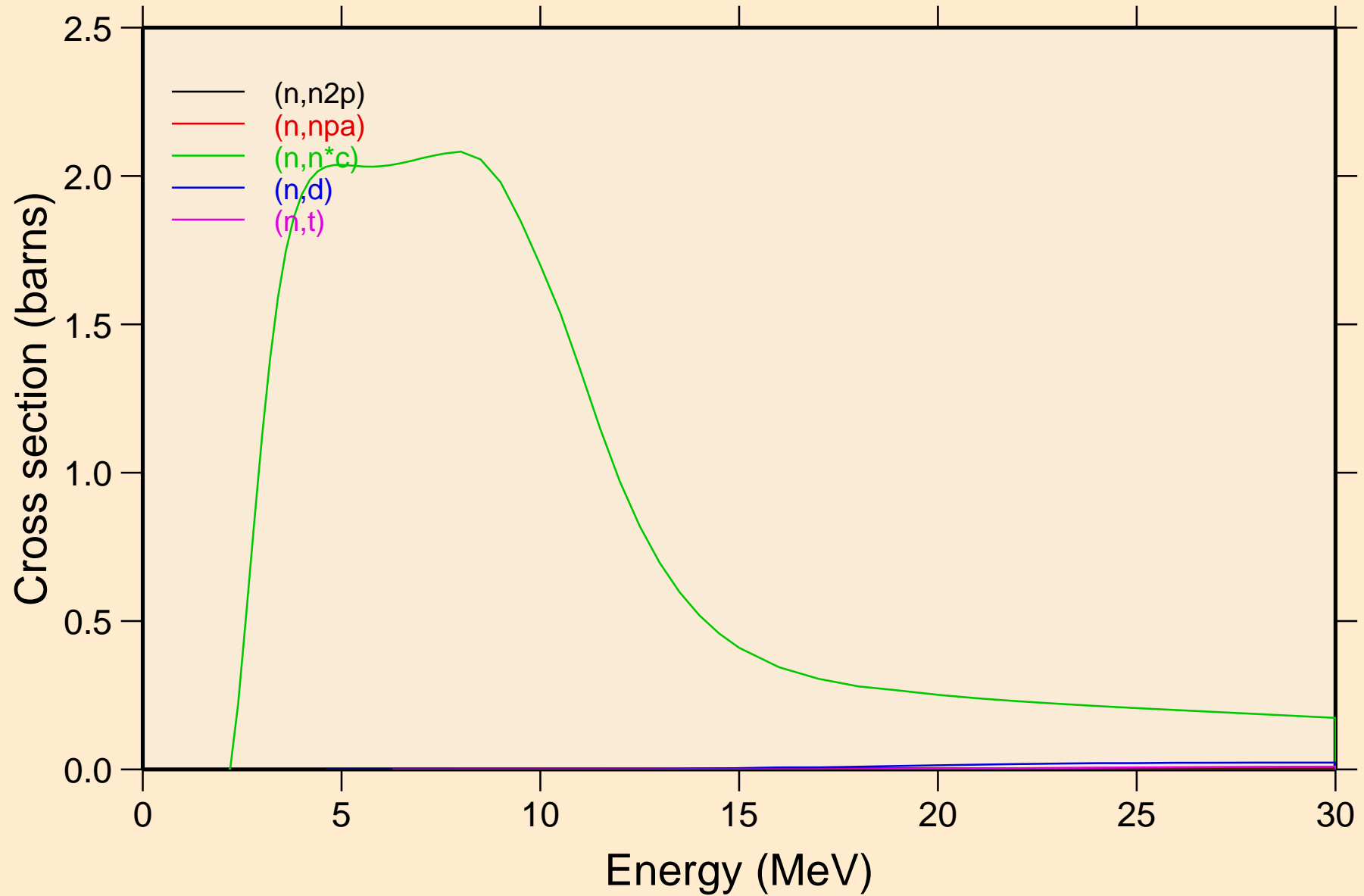
# ND141 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K

## Threshold reactions

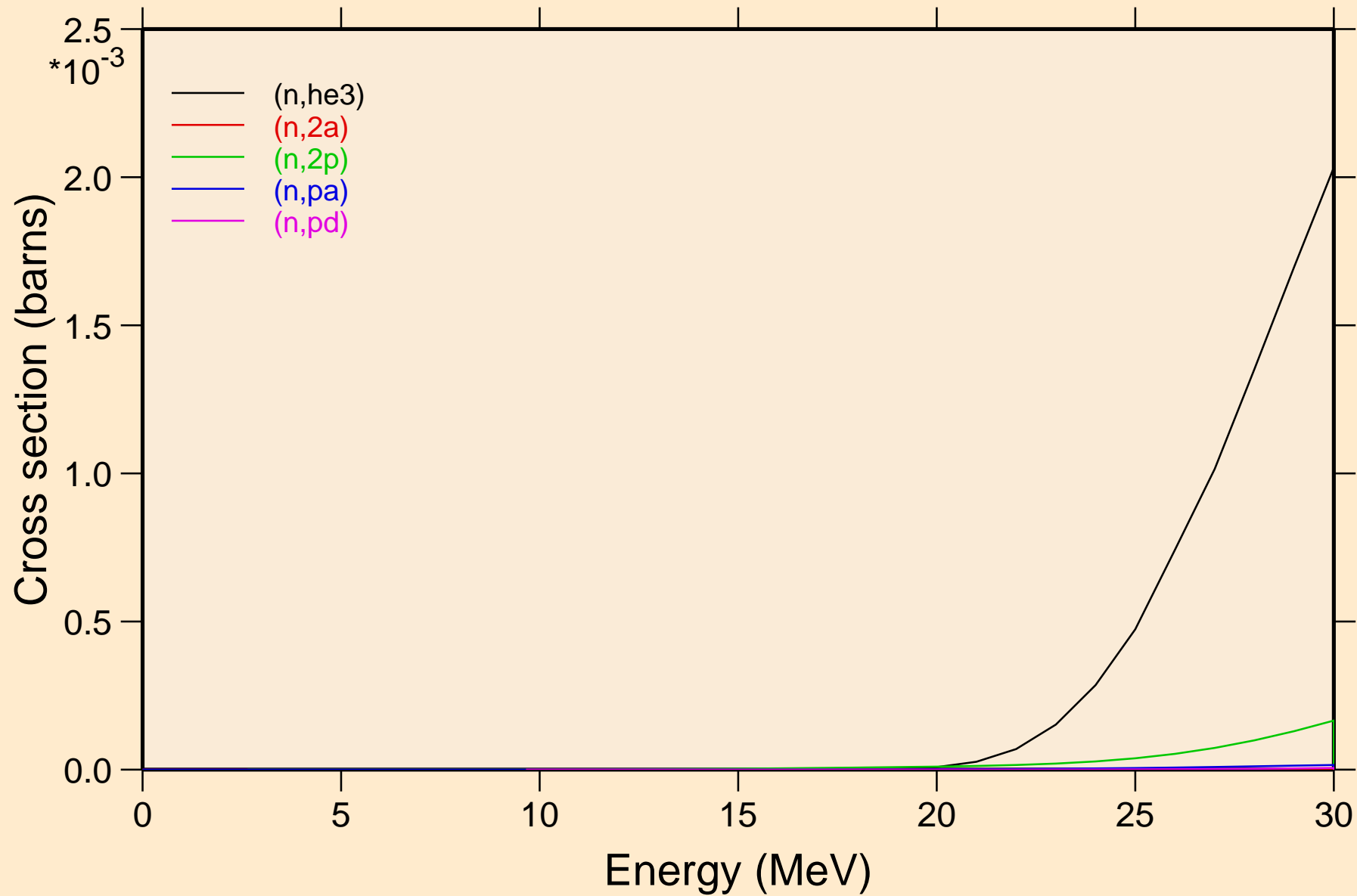


# ND141 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K

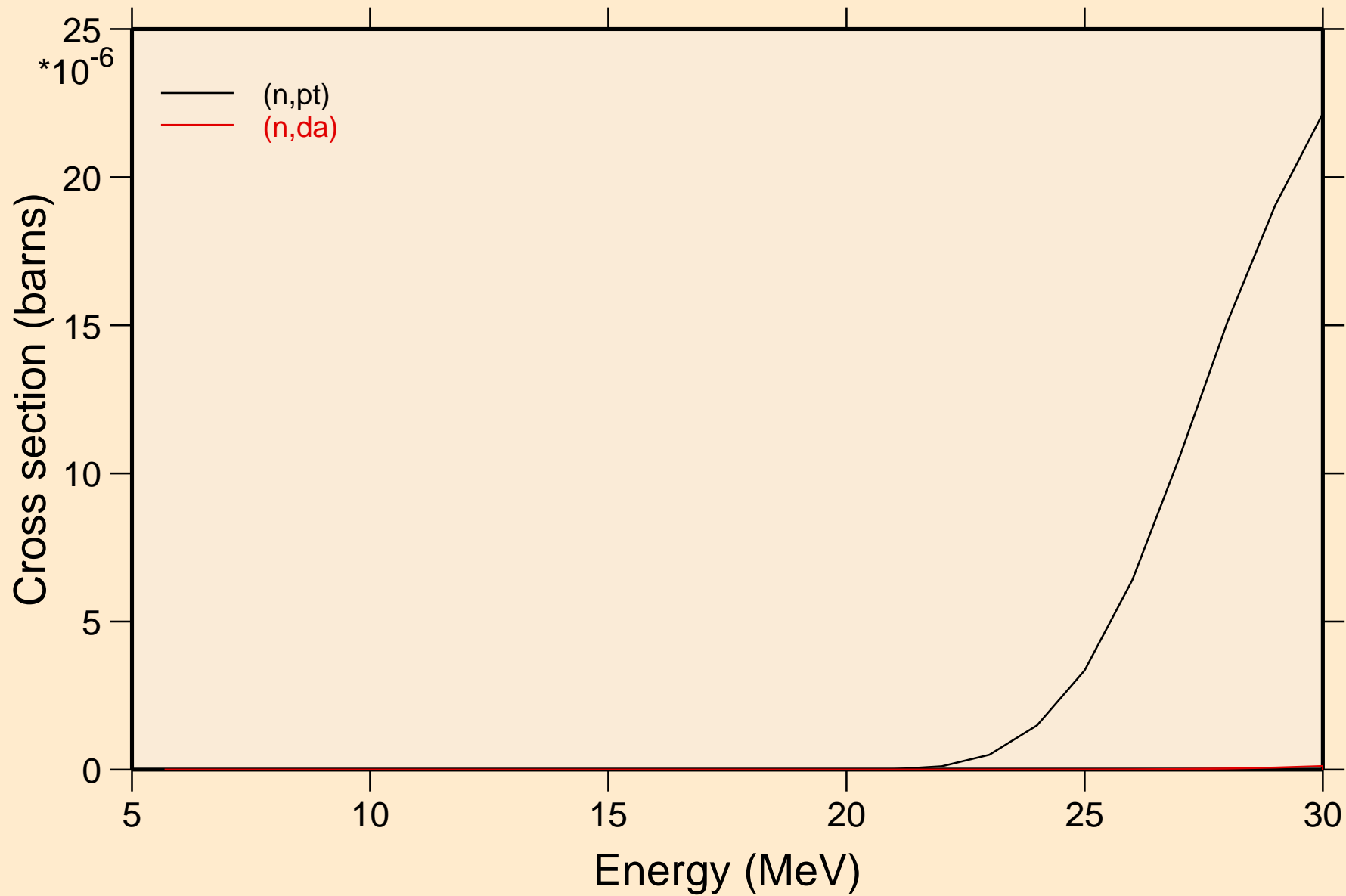
## Threshold reactions



ND141 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Threshold reactions

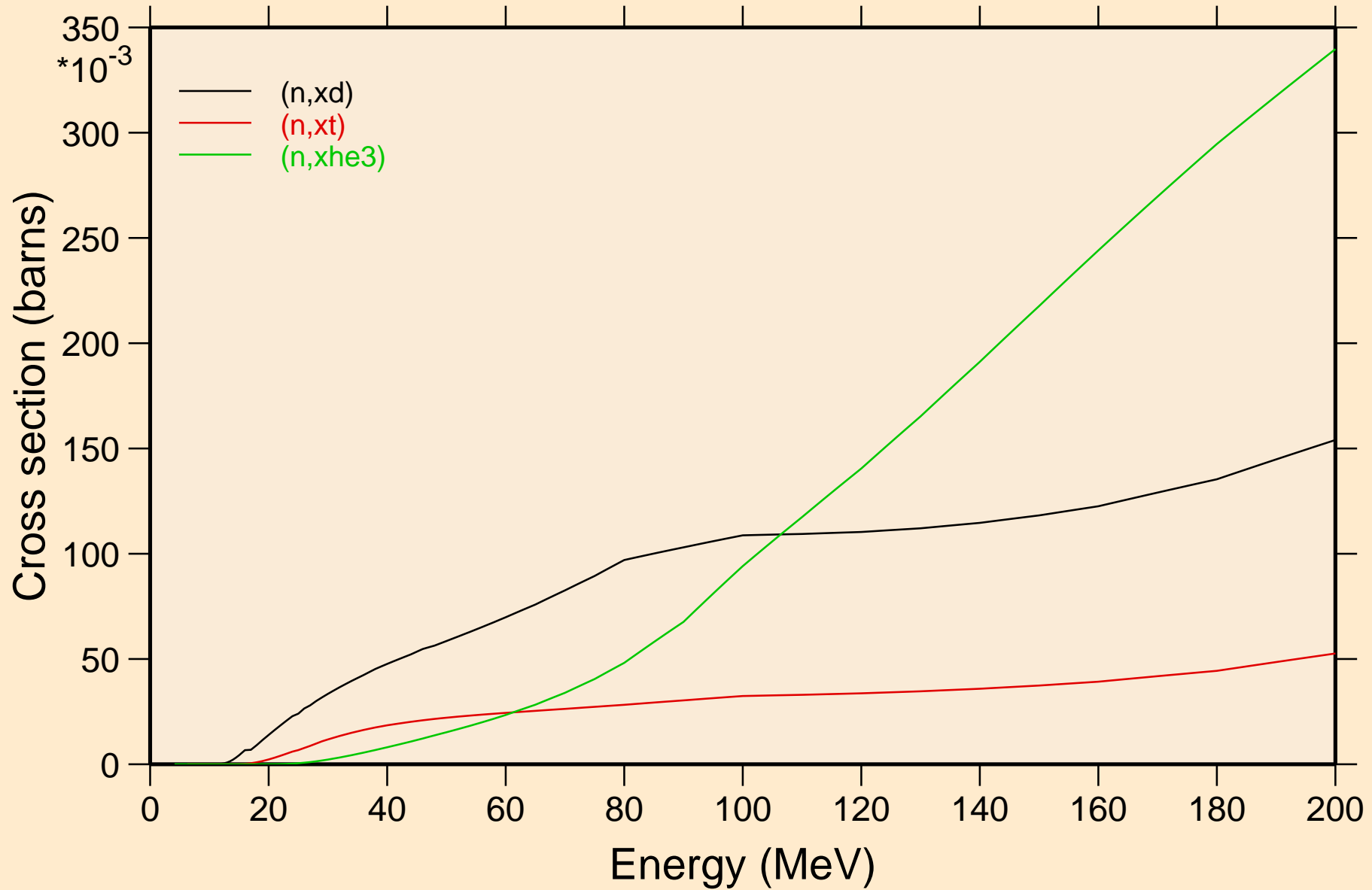


ND141 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Threshold reactions

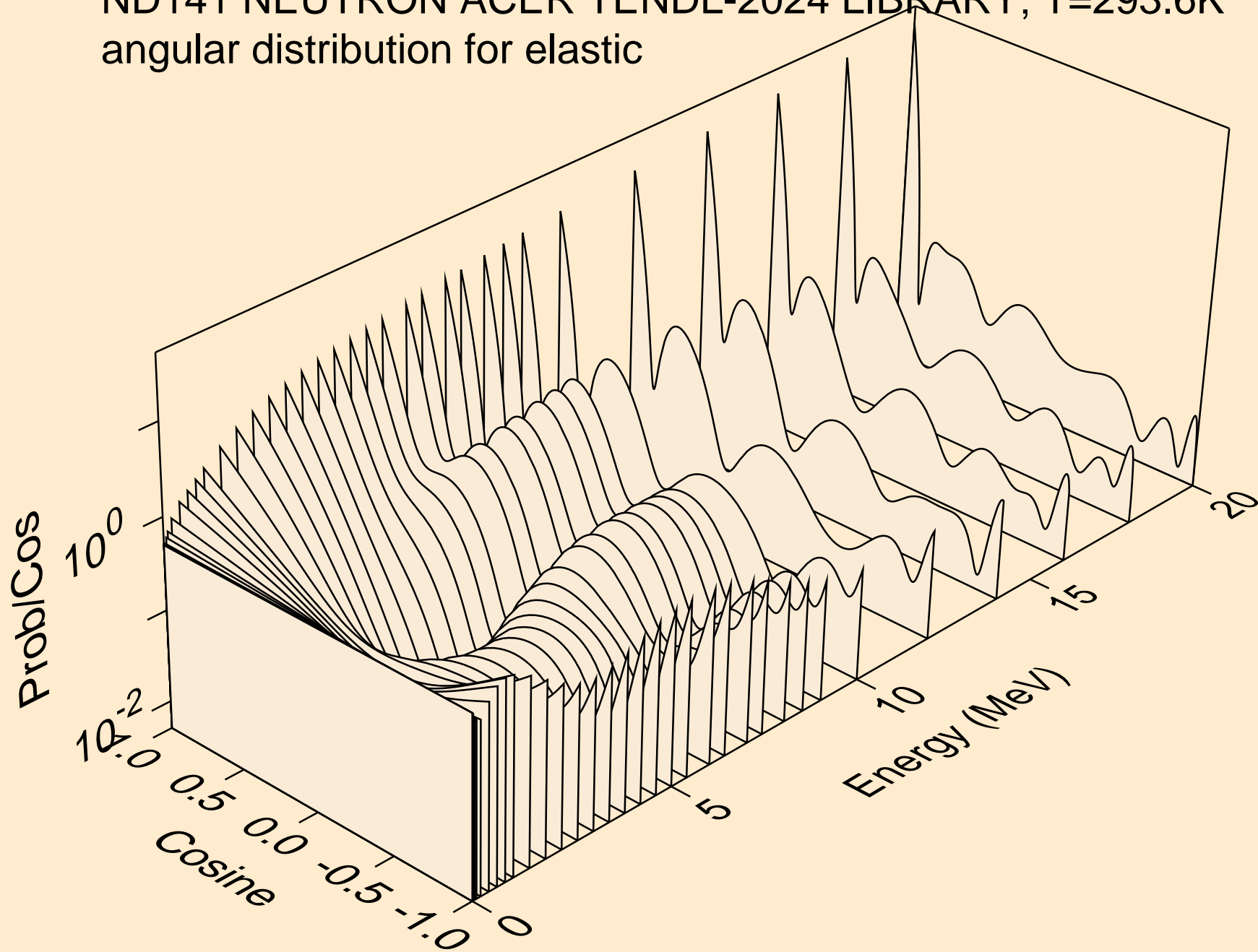


# ND141 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K

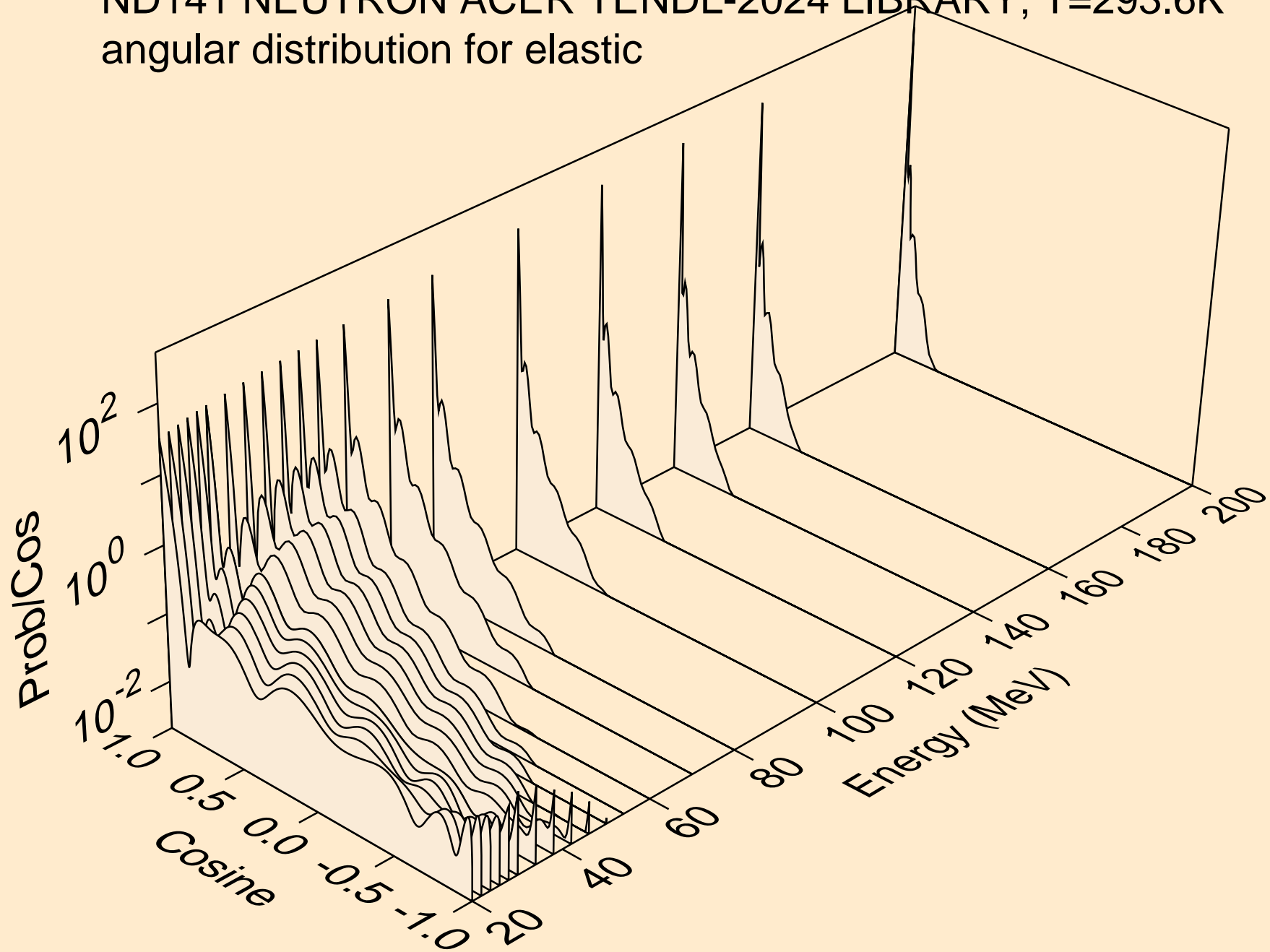
## Threshold reactions



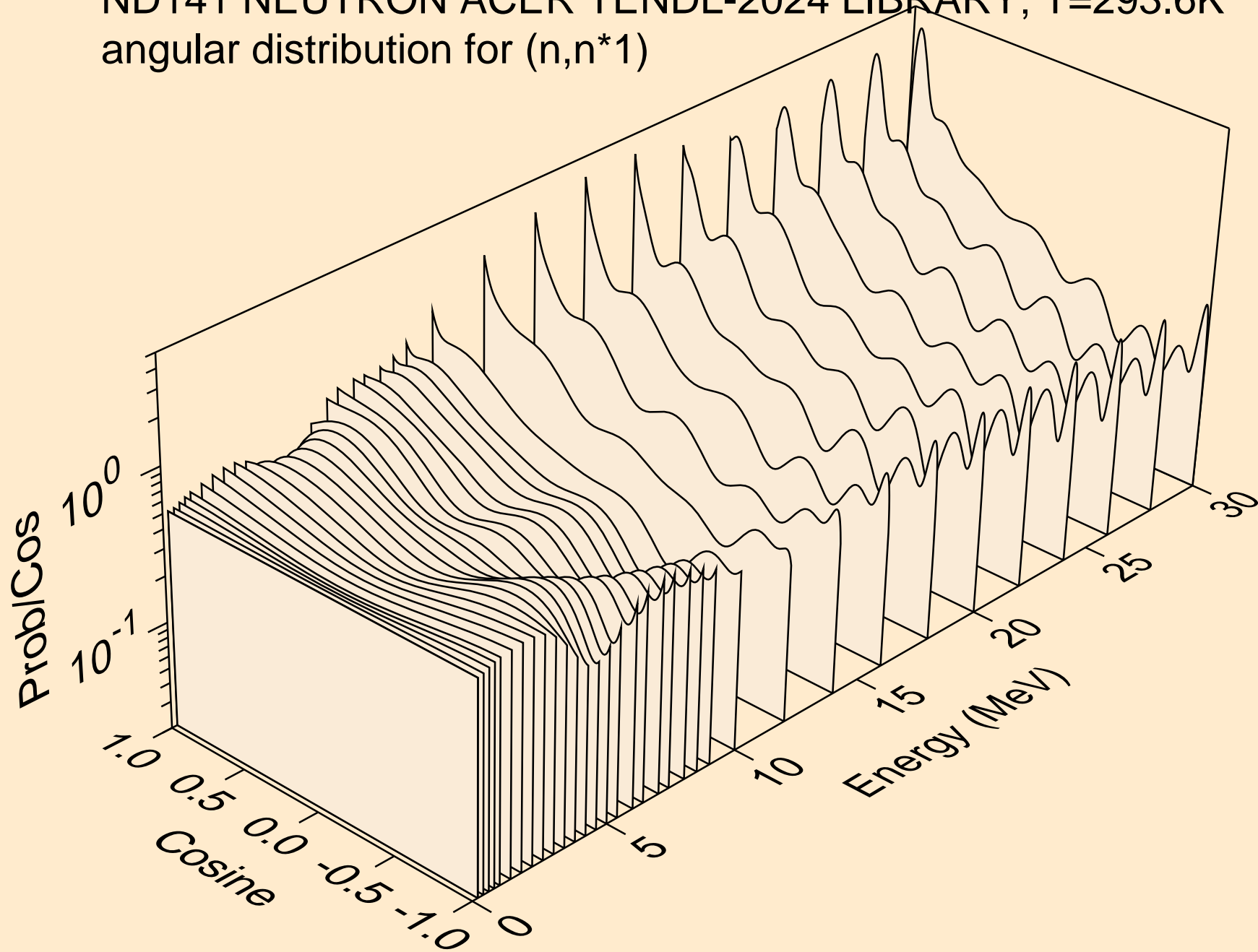
ND141 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
angular distribution for elastic



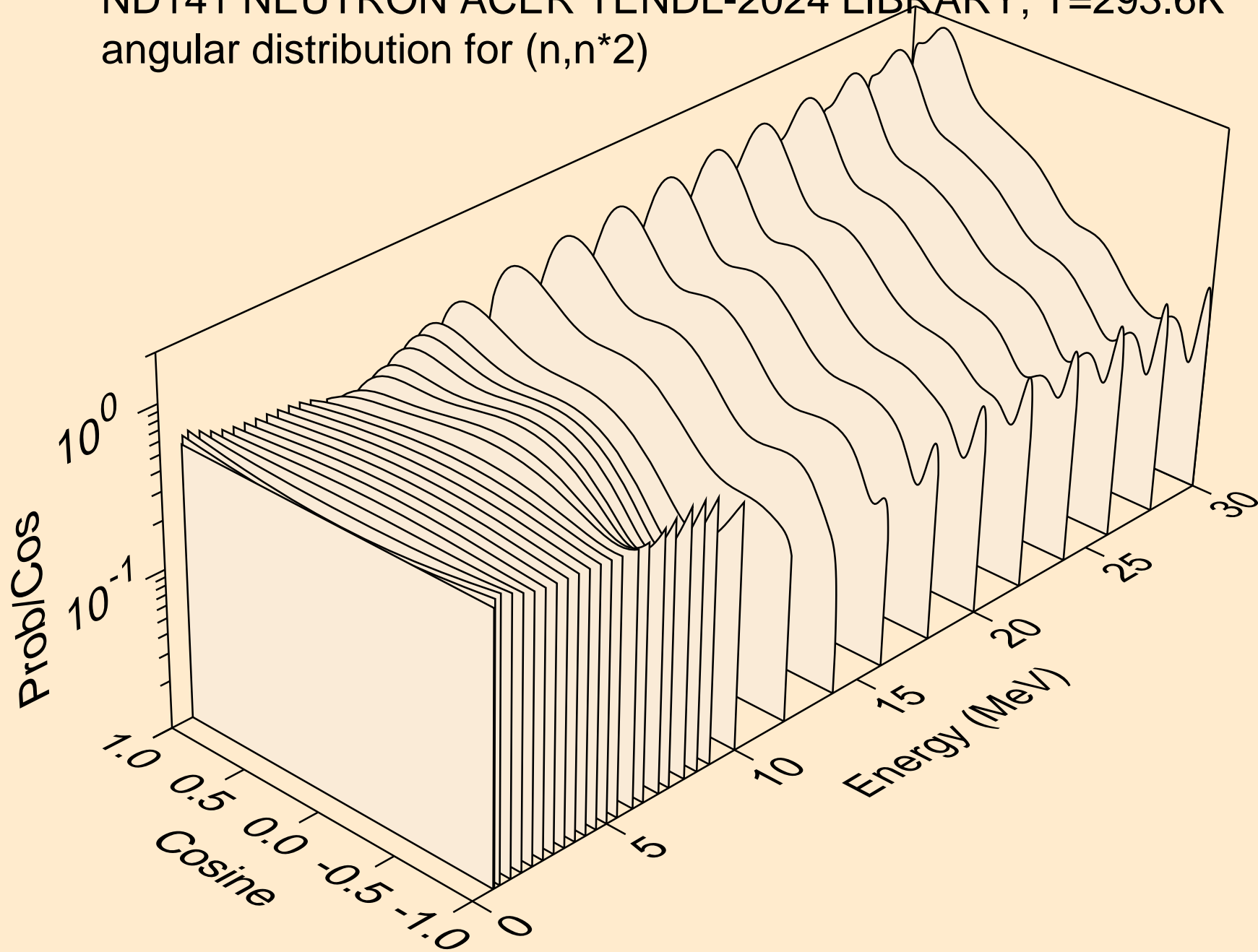
ND141 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
angular distribution for elastic



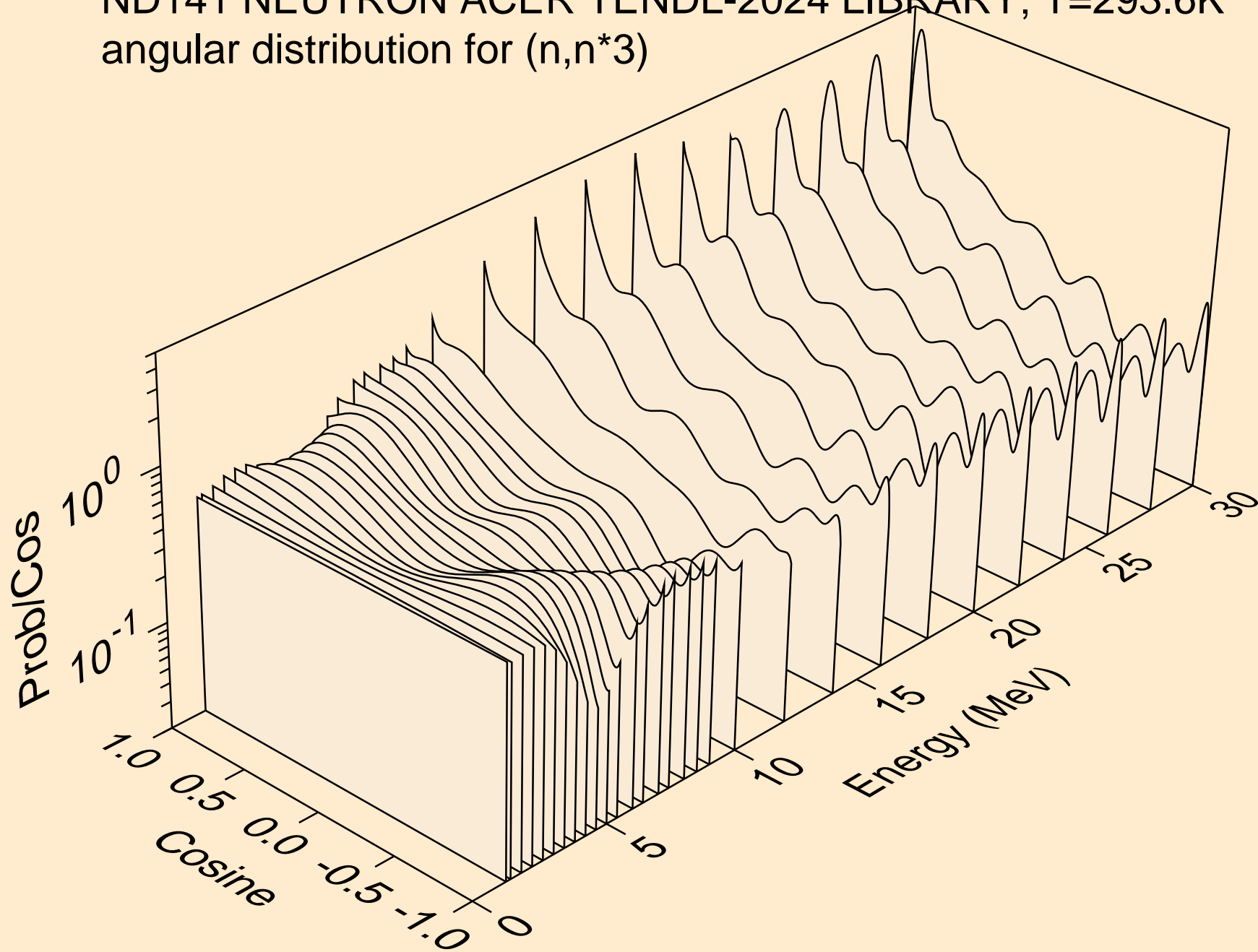
ND141 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
angular distribution for (n,n\*1)



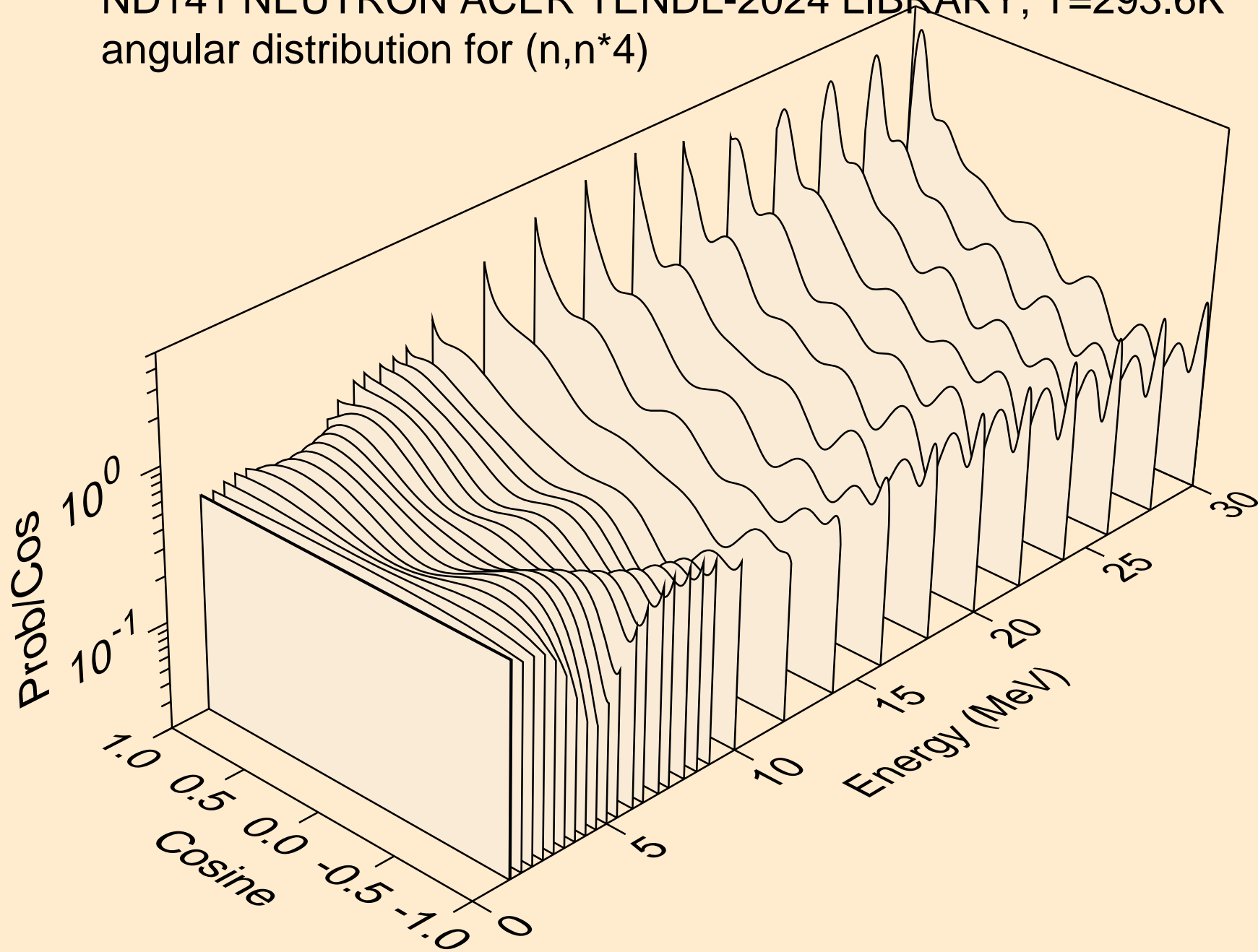
ND141 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
angular distribution for (n,n\*2)



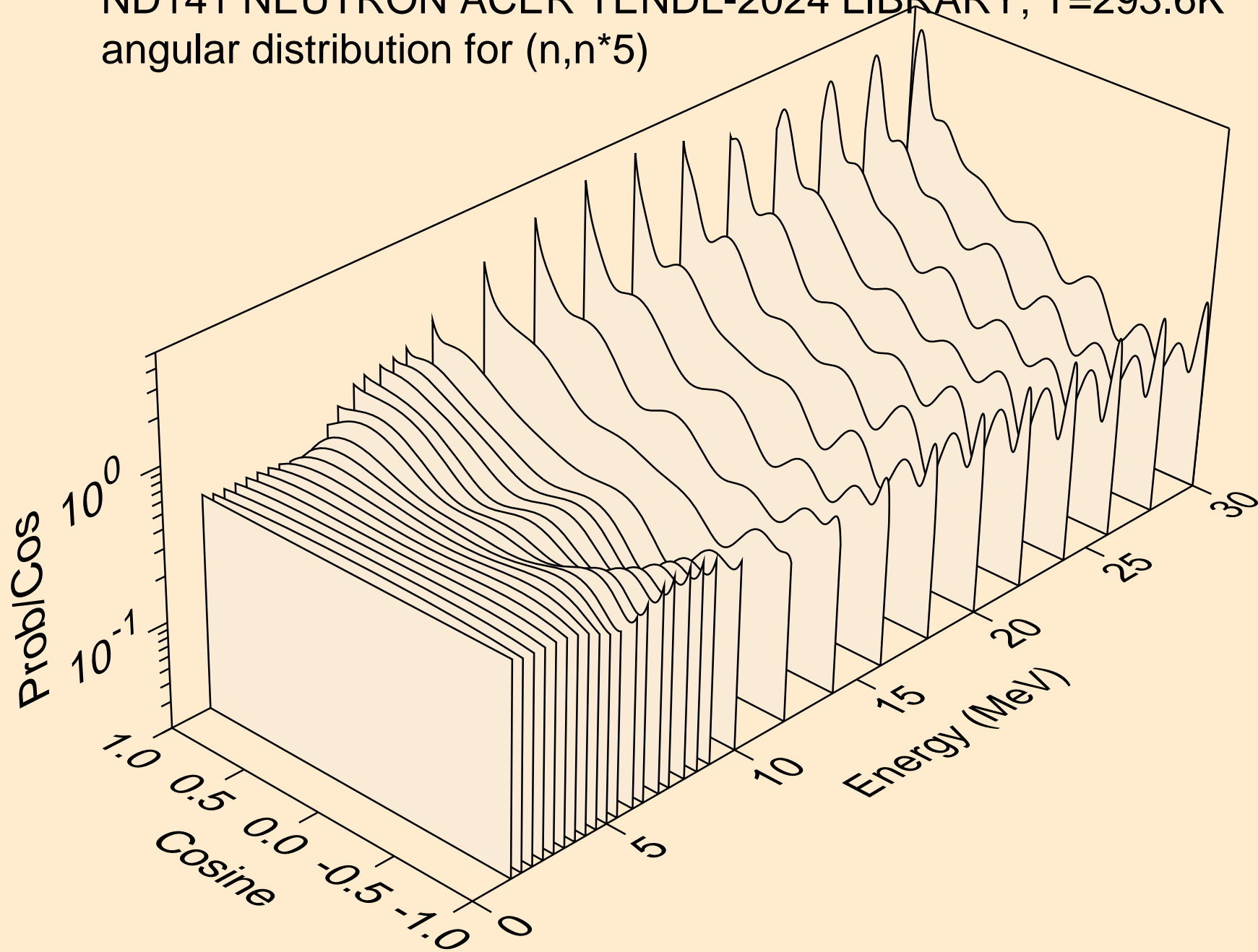
ND141 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
angular distribution for (n,n\*3)



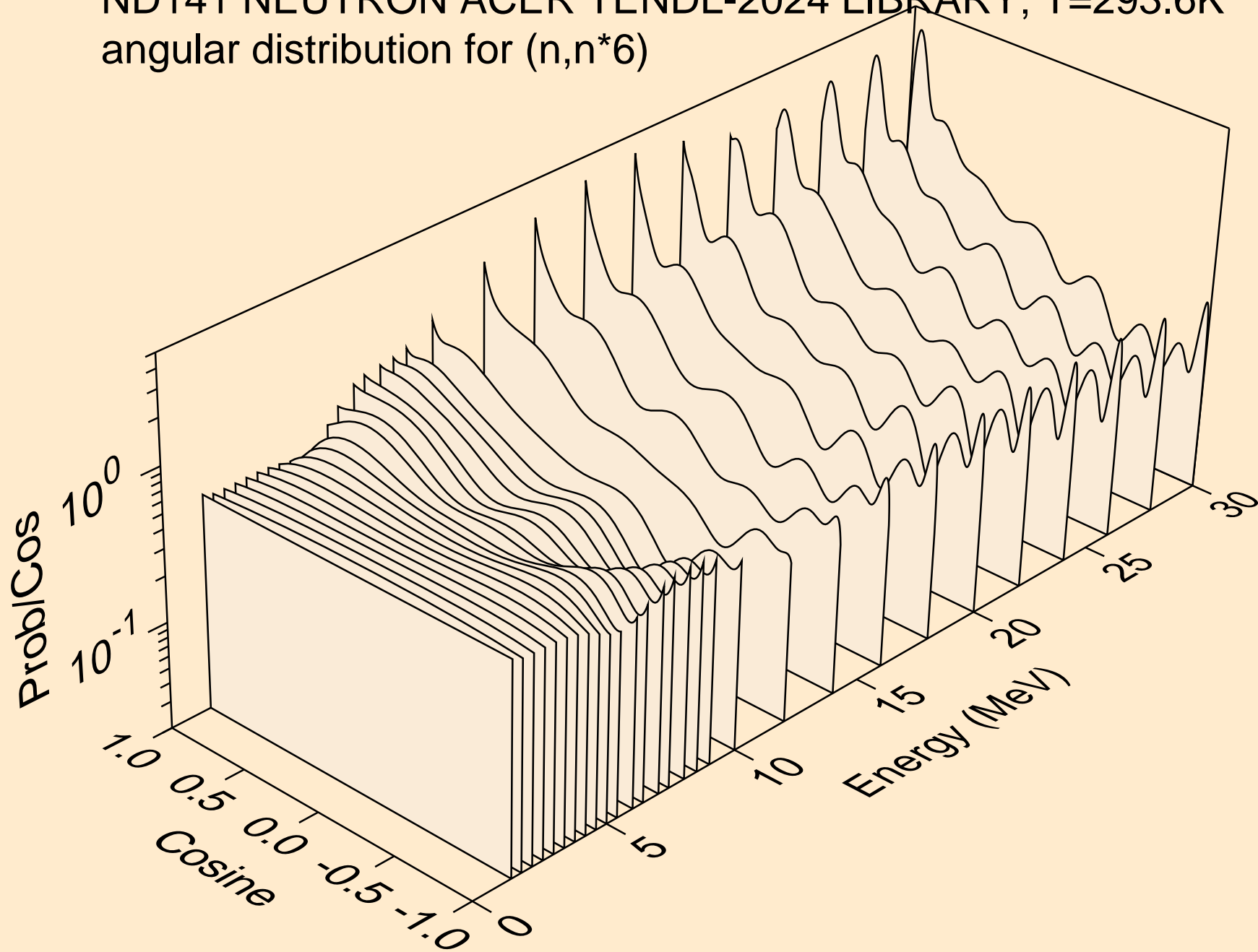
ND141 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
angular distribution for (n,n\*4)



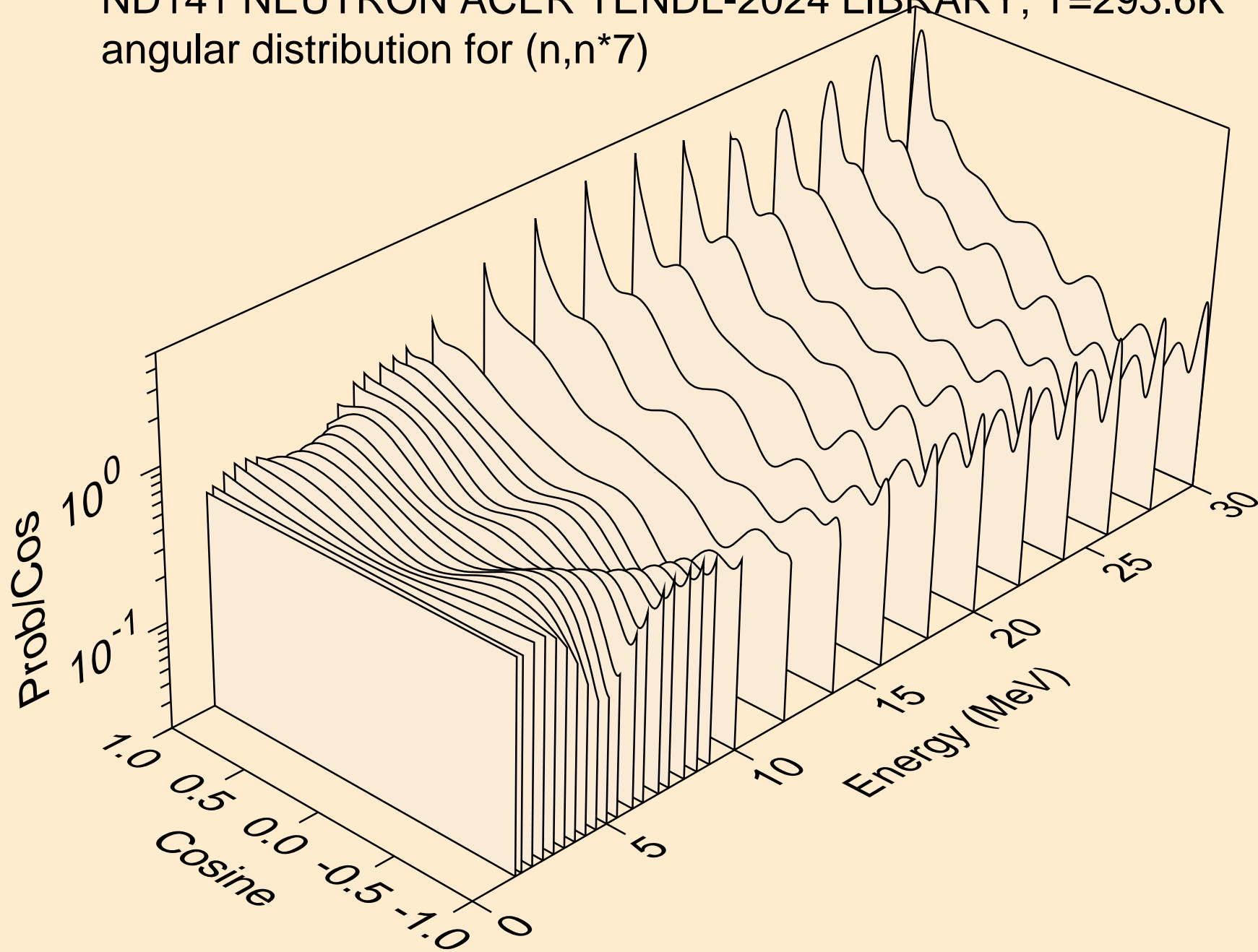
ND141 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
angular distribution for (n,n\*5)



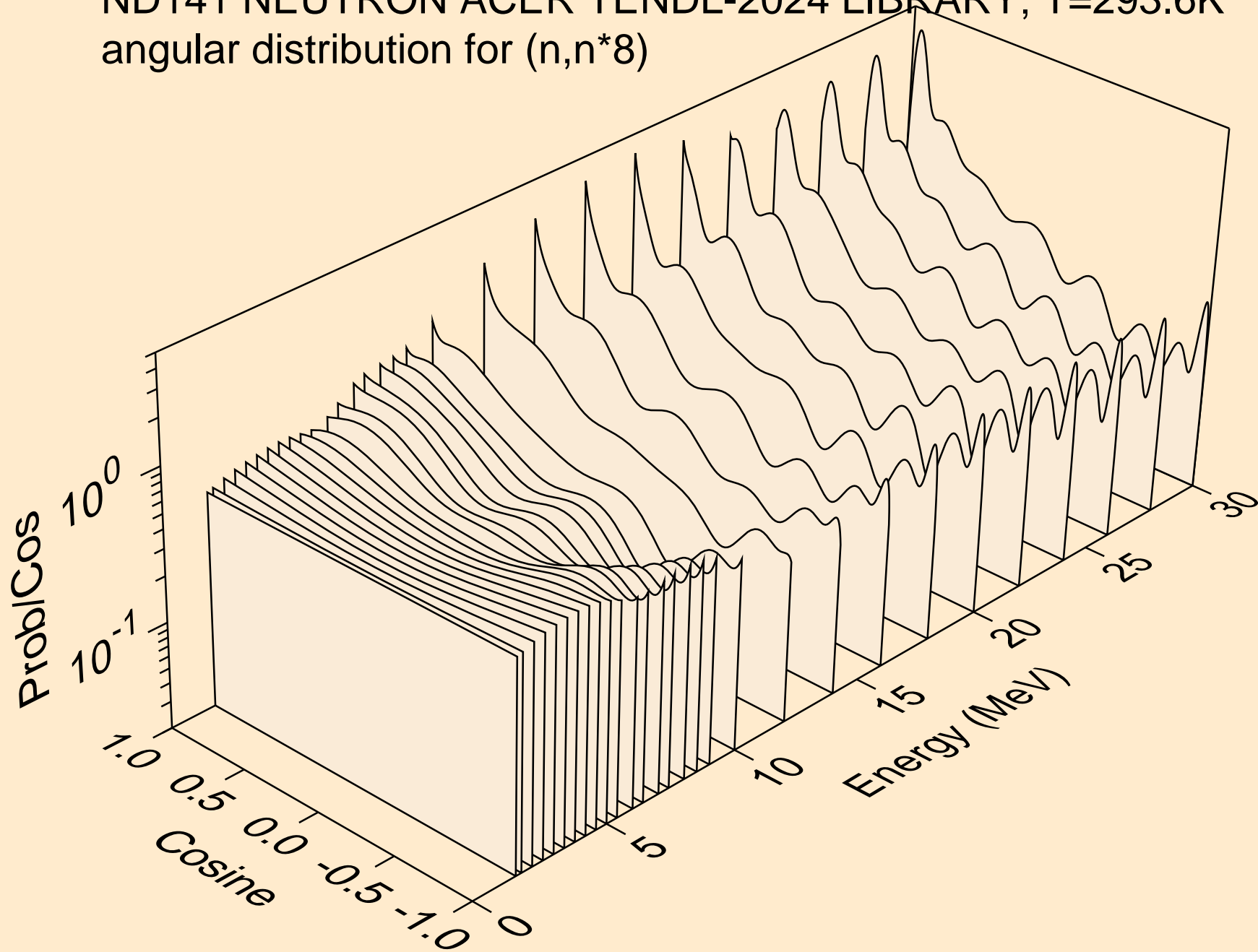
ND141 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
angular distribution for (n,n\*6)



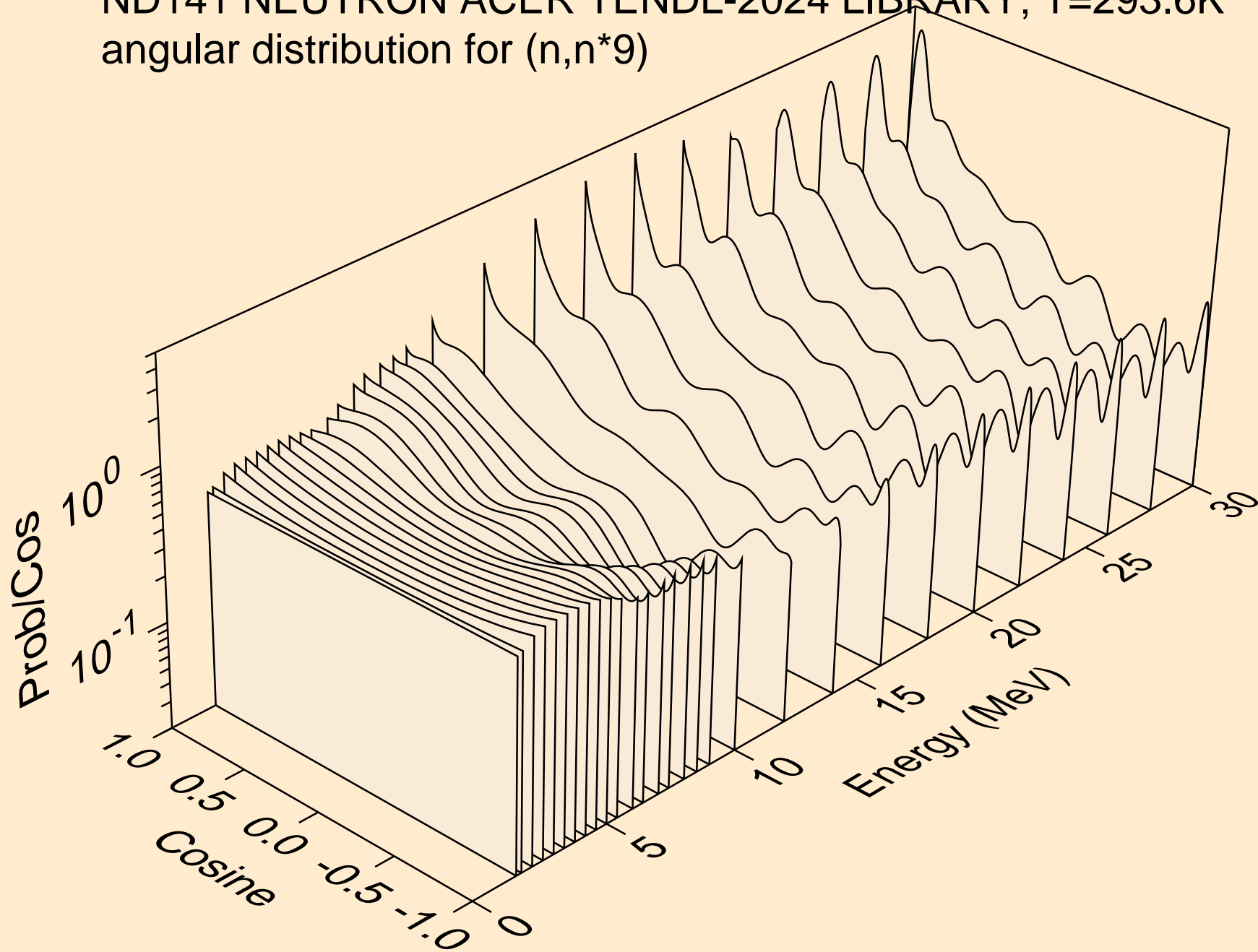
ND141 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
angular distribution for (n,n\*7)



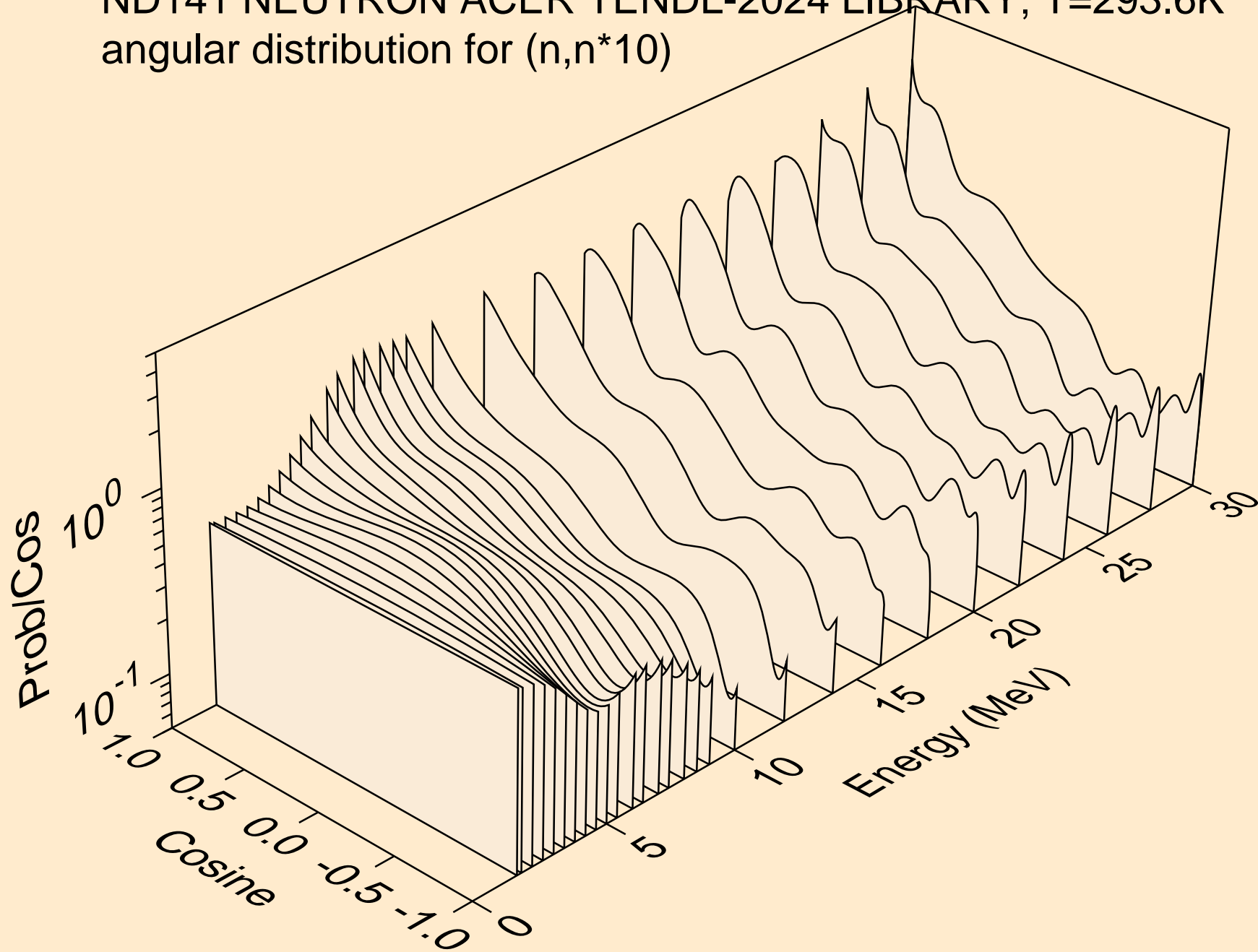
ND141 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
angular distribution for (n,n\*8)



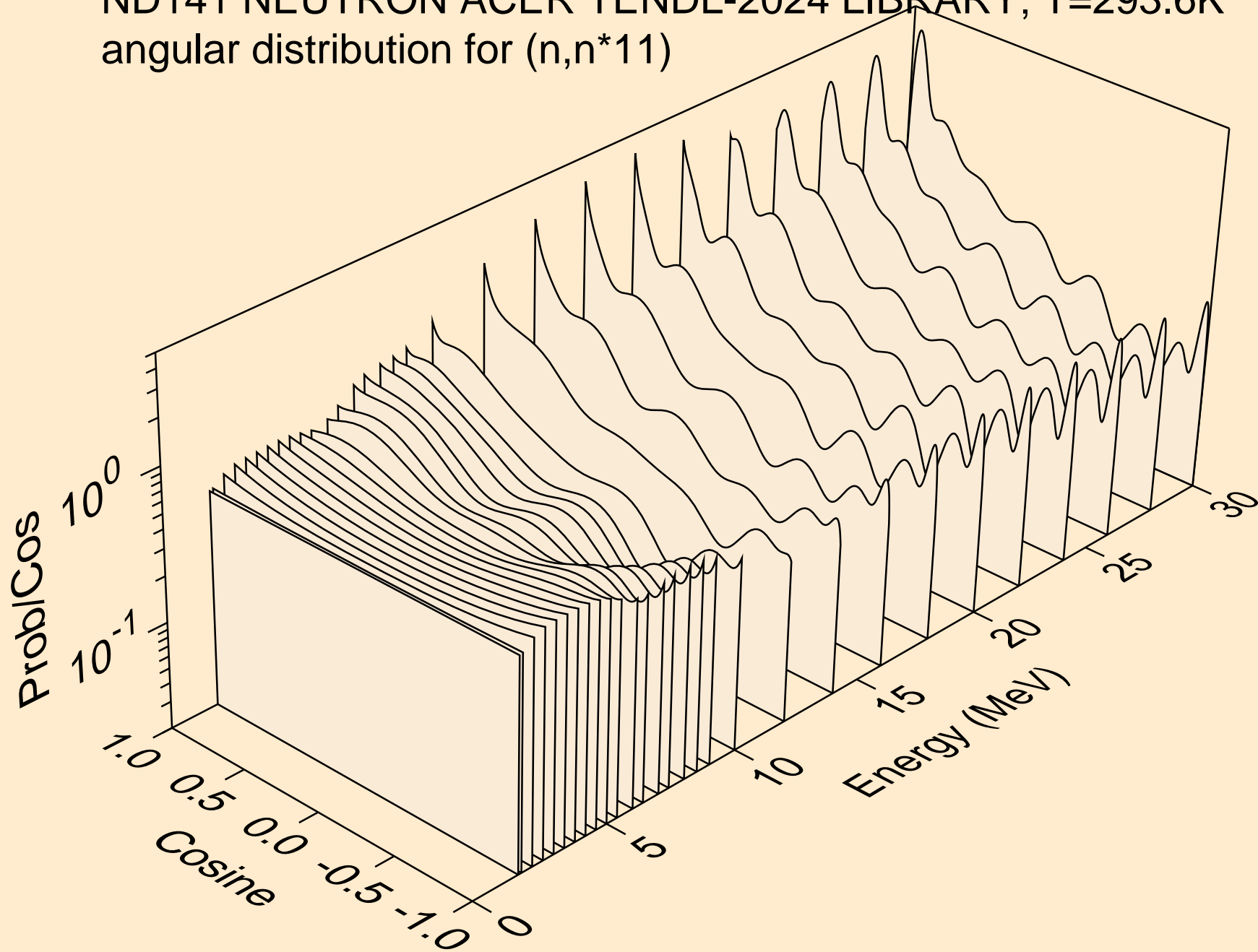
ND141 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
angular distribution for (n,n\*9)



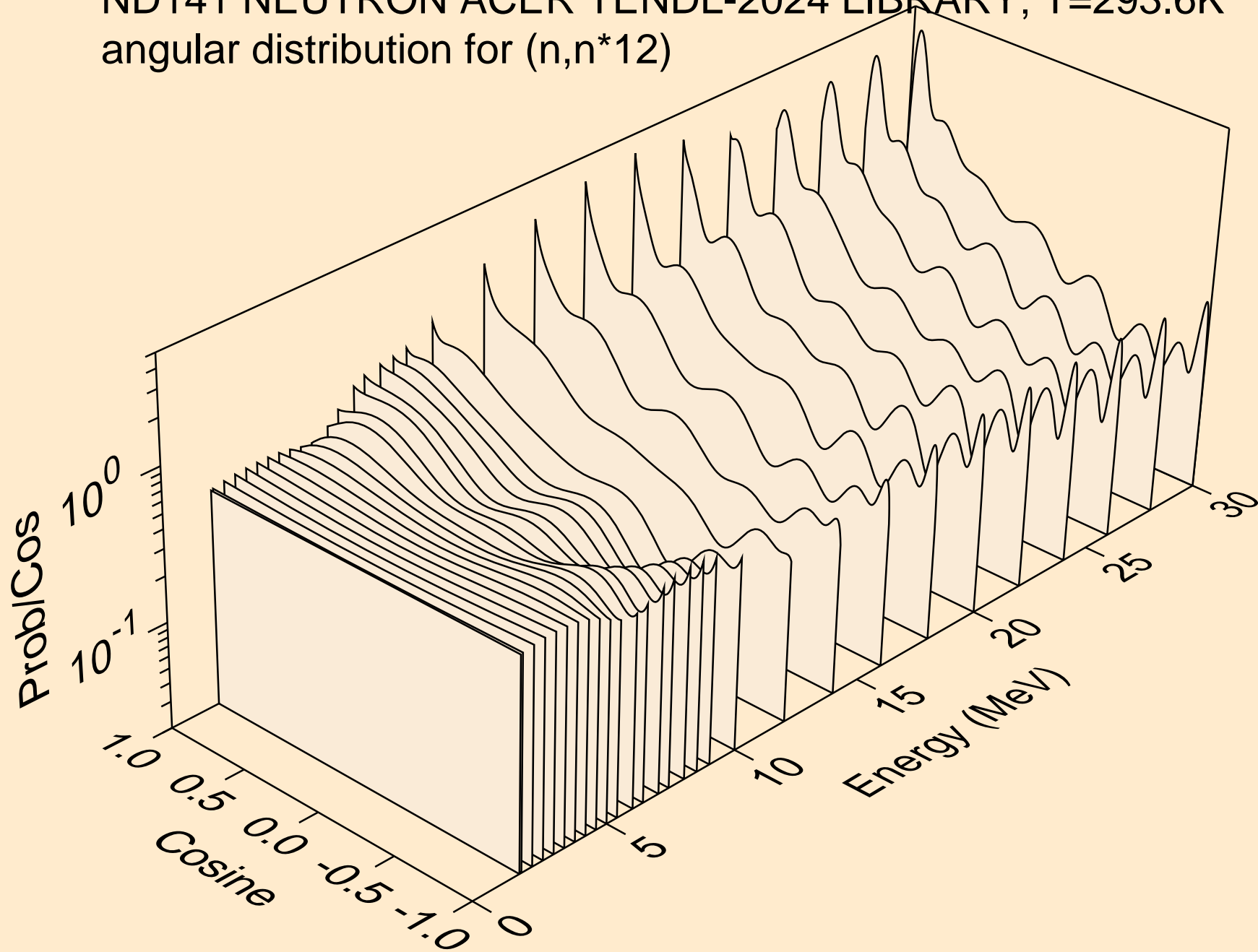
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angular distribution for (n,n\*10)



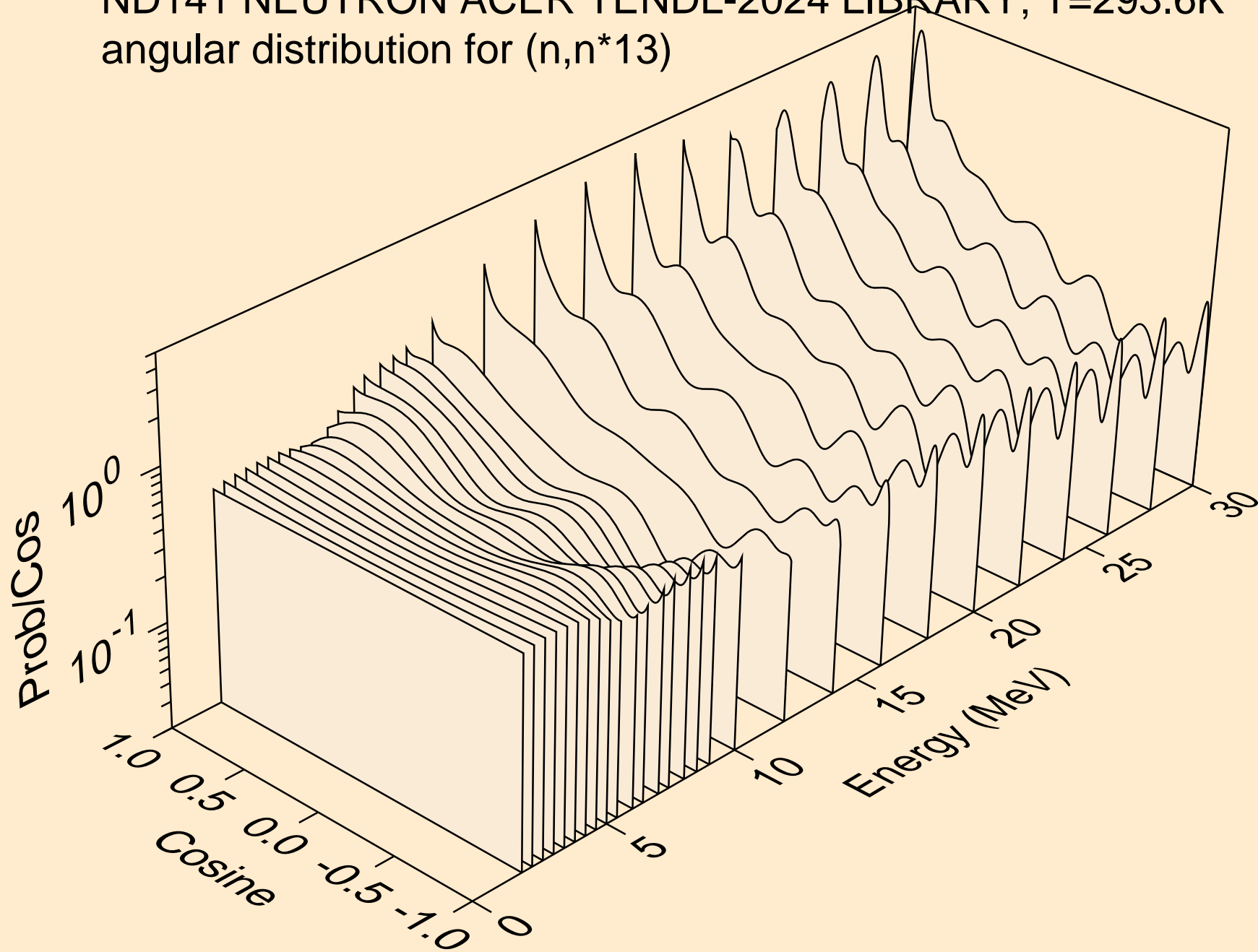
ND141 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
angular distribution for (n,n\*11)



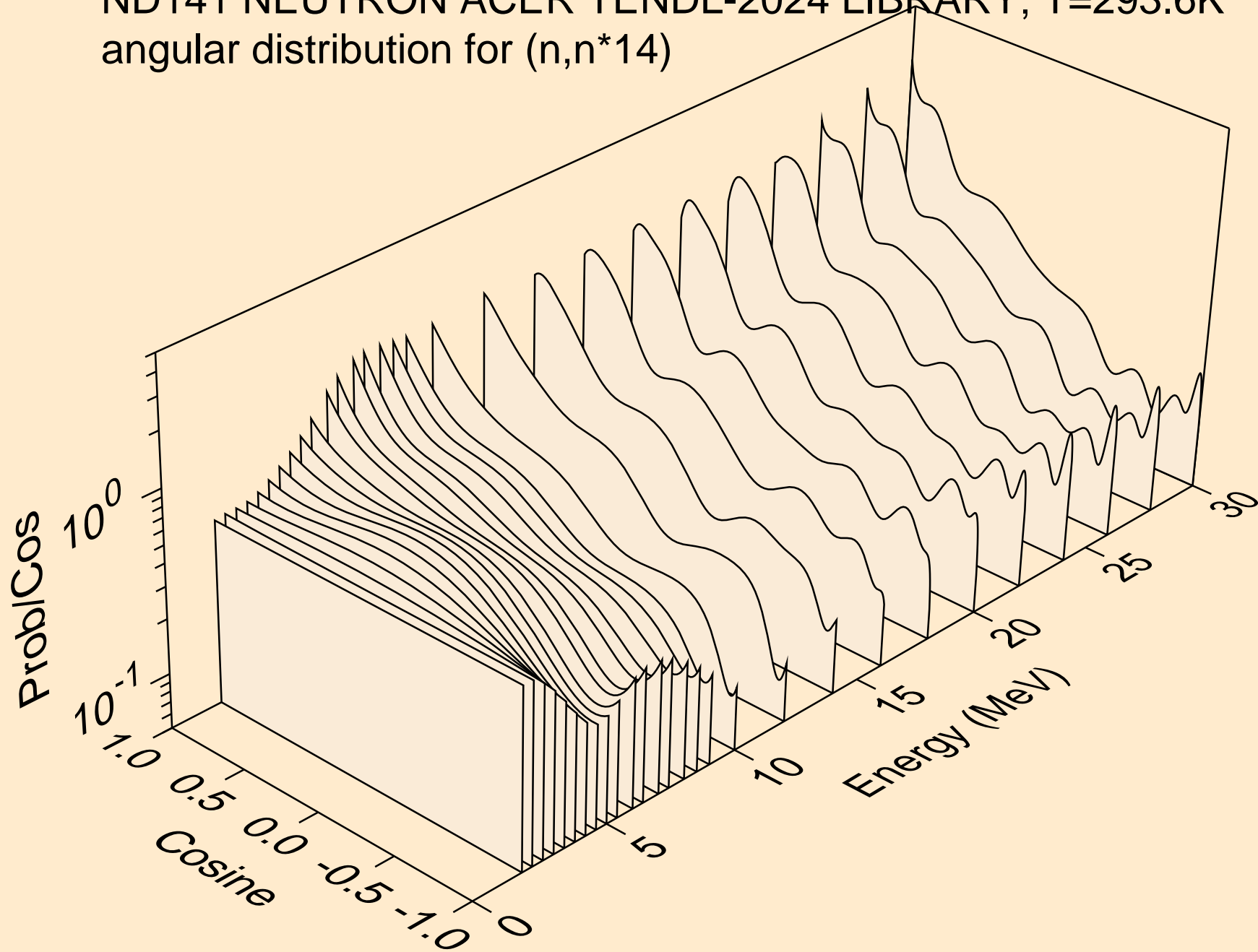
ND141 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
angular distribution for (n,n\*12)



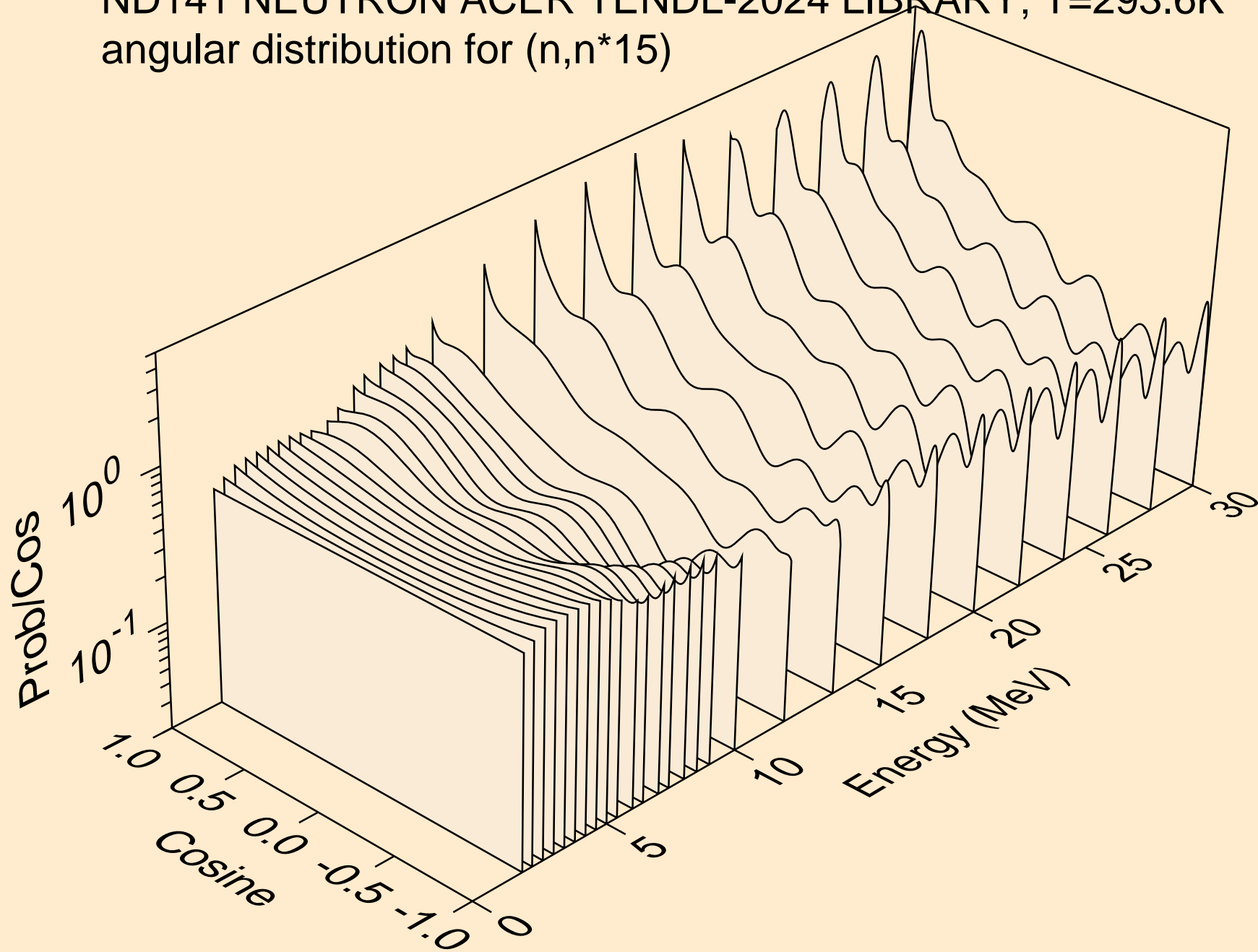
ND141 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
angular distribution for (n,n\*13)



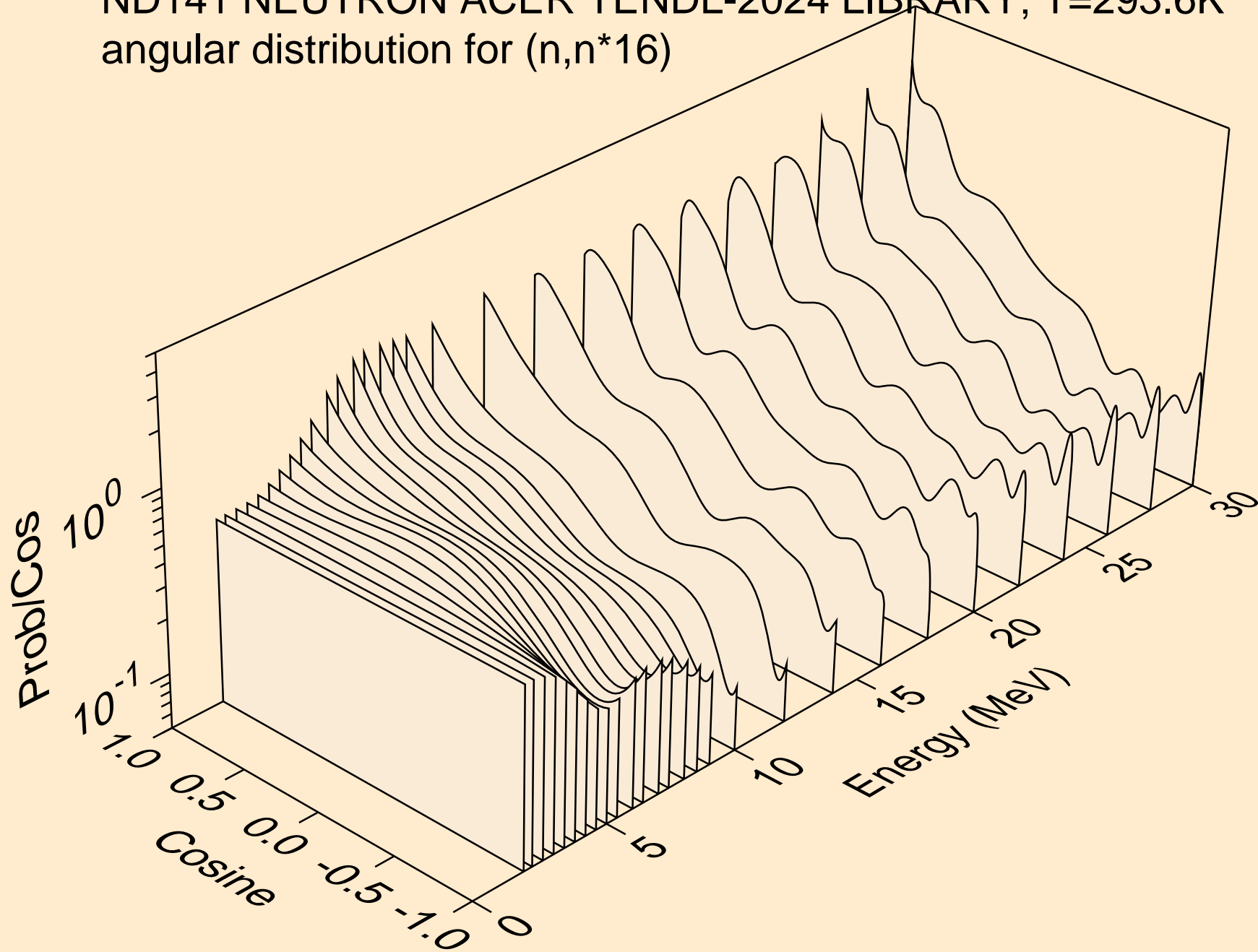
ND141 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
angular distribution for (n,n\*14)



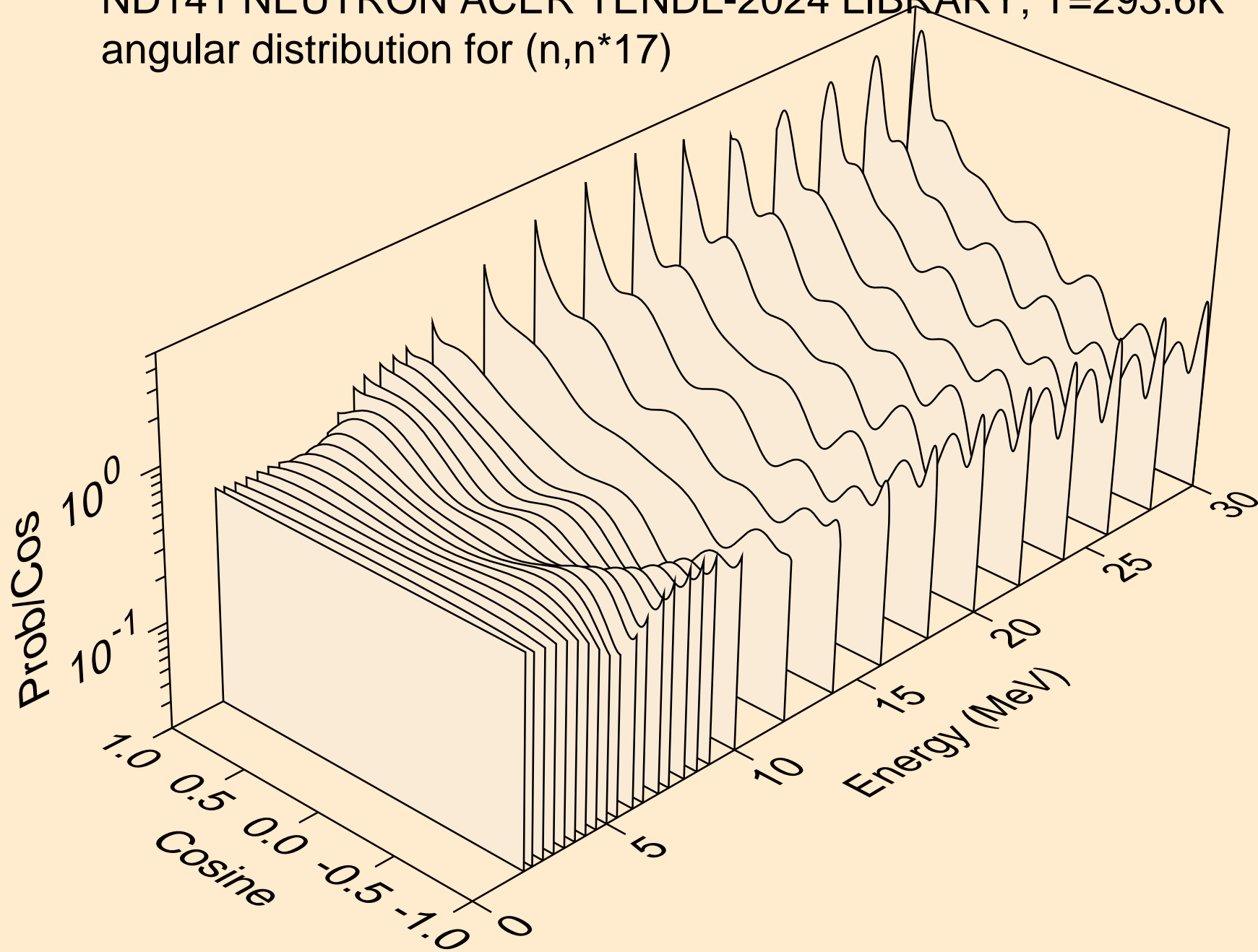
ND141 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
angular distribution for (n,n\*15)



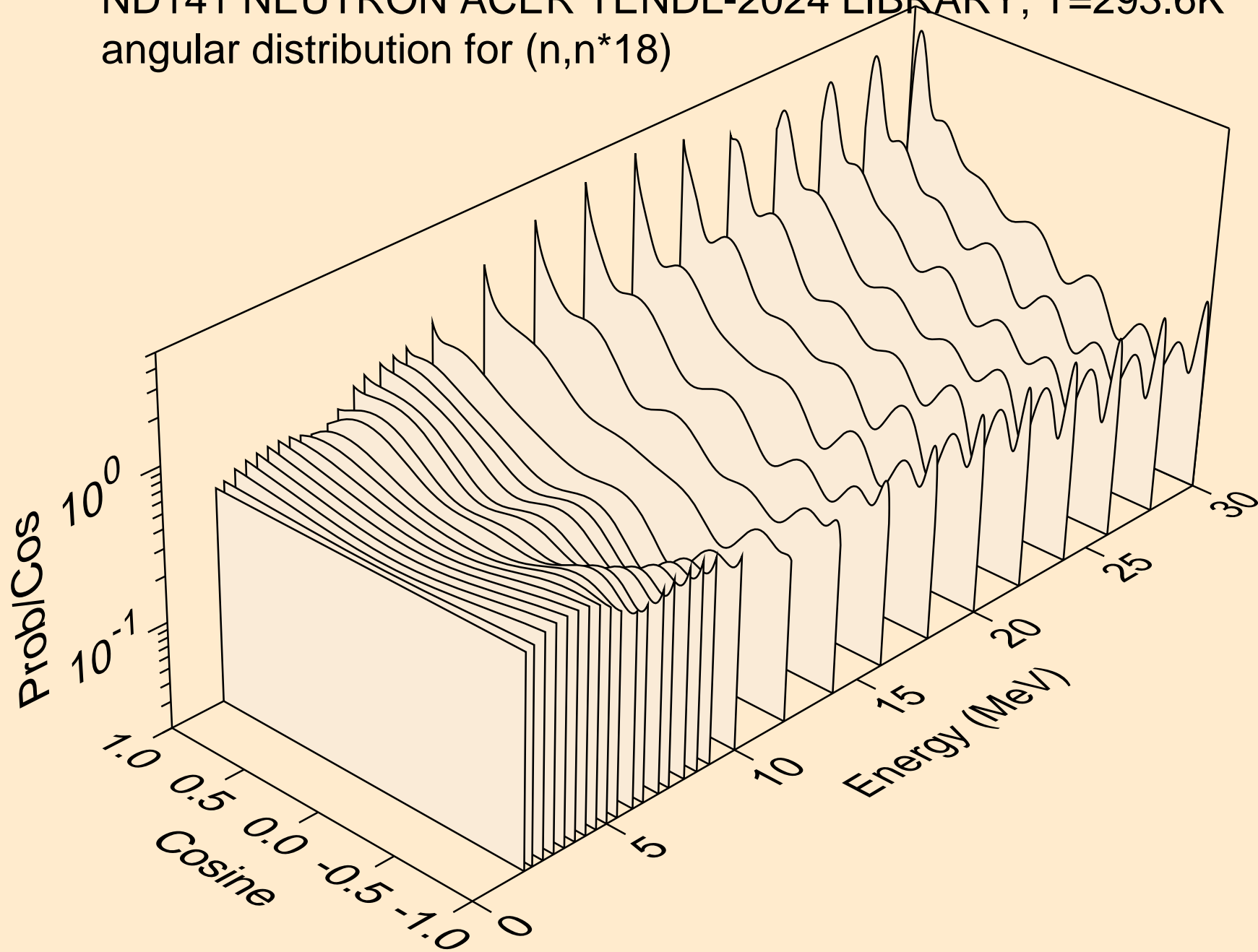
ND141 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
angular distribution for (n,n\*16)



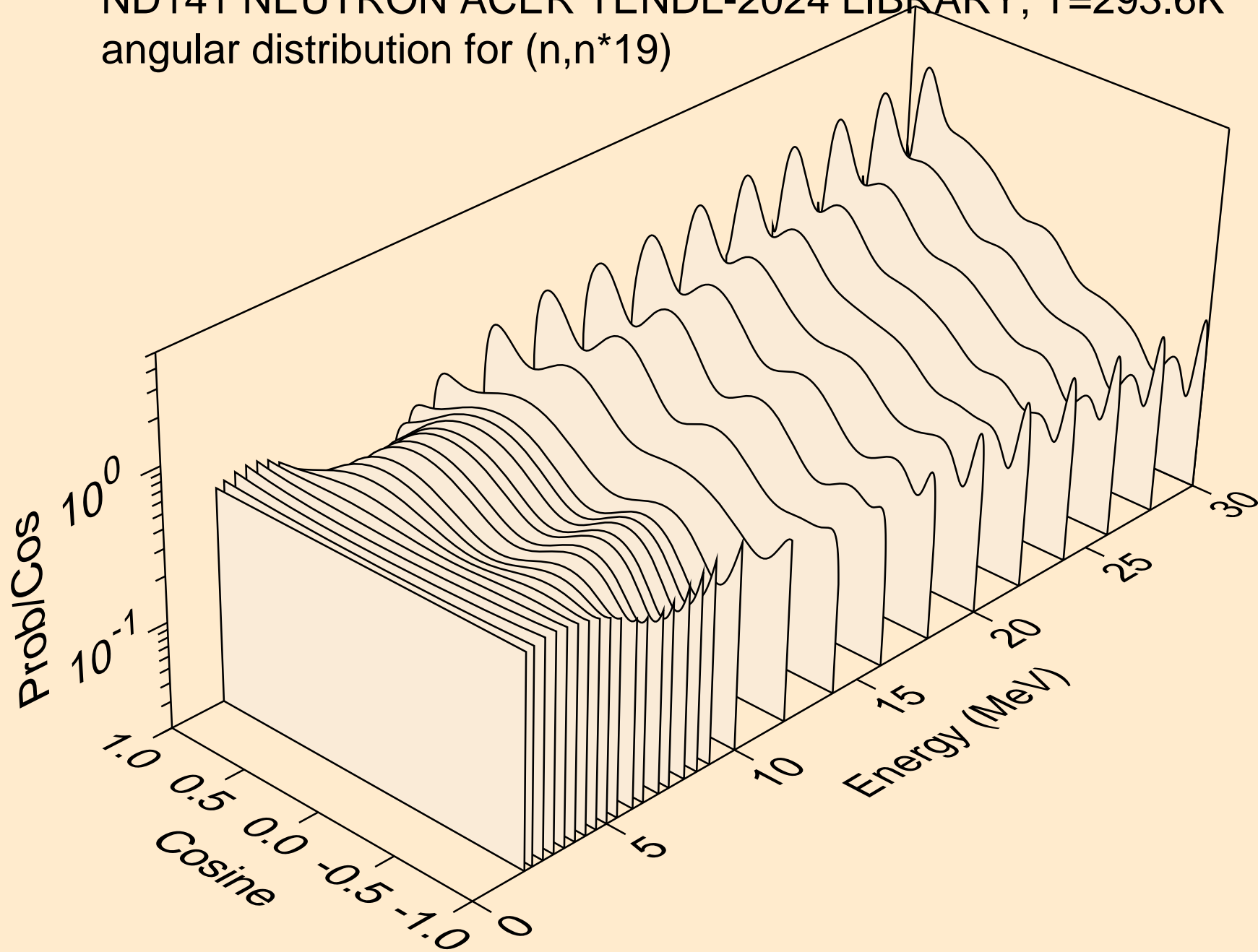
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angular distribution for (n,n\*17)



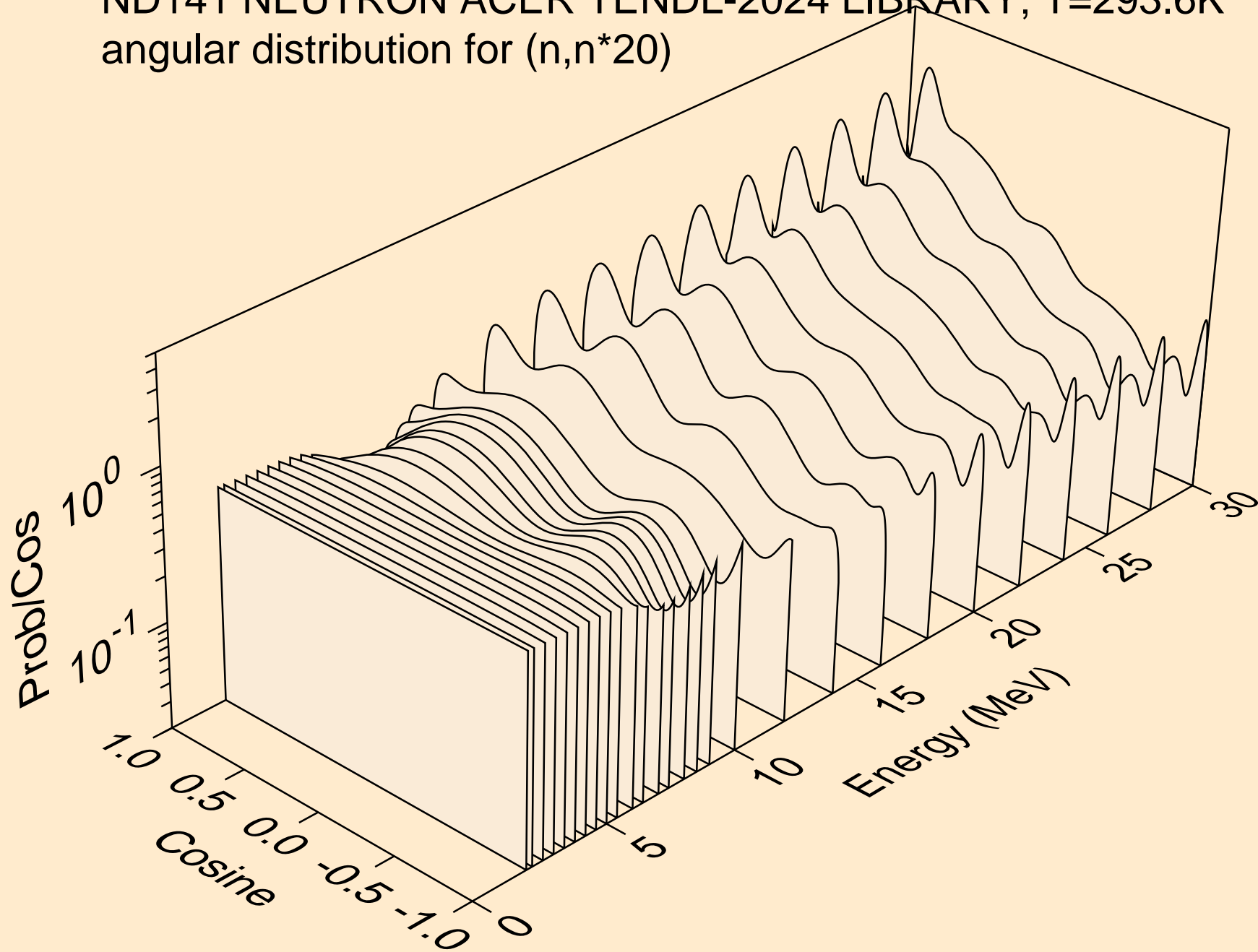
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angular distribution for (n,n\*18)



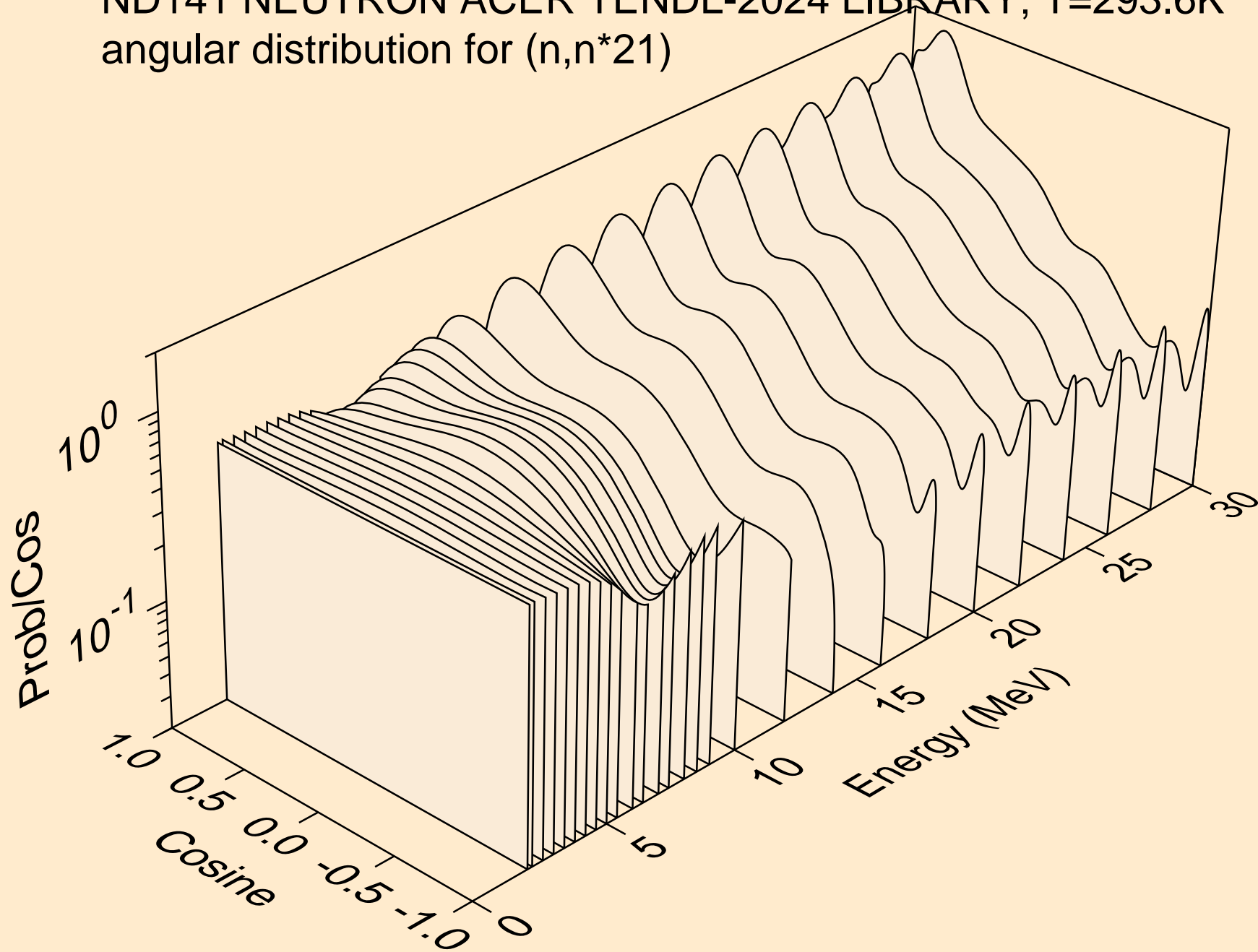
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angular distribution for (n,n\*19)



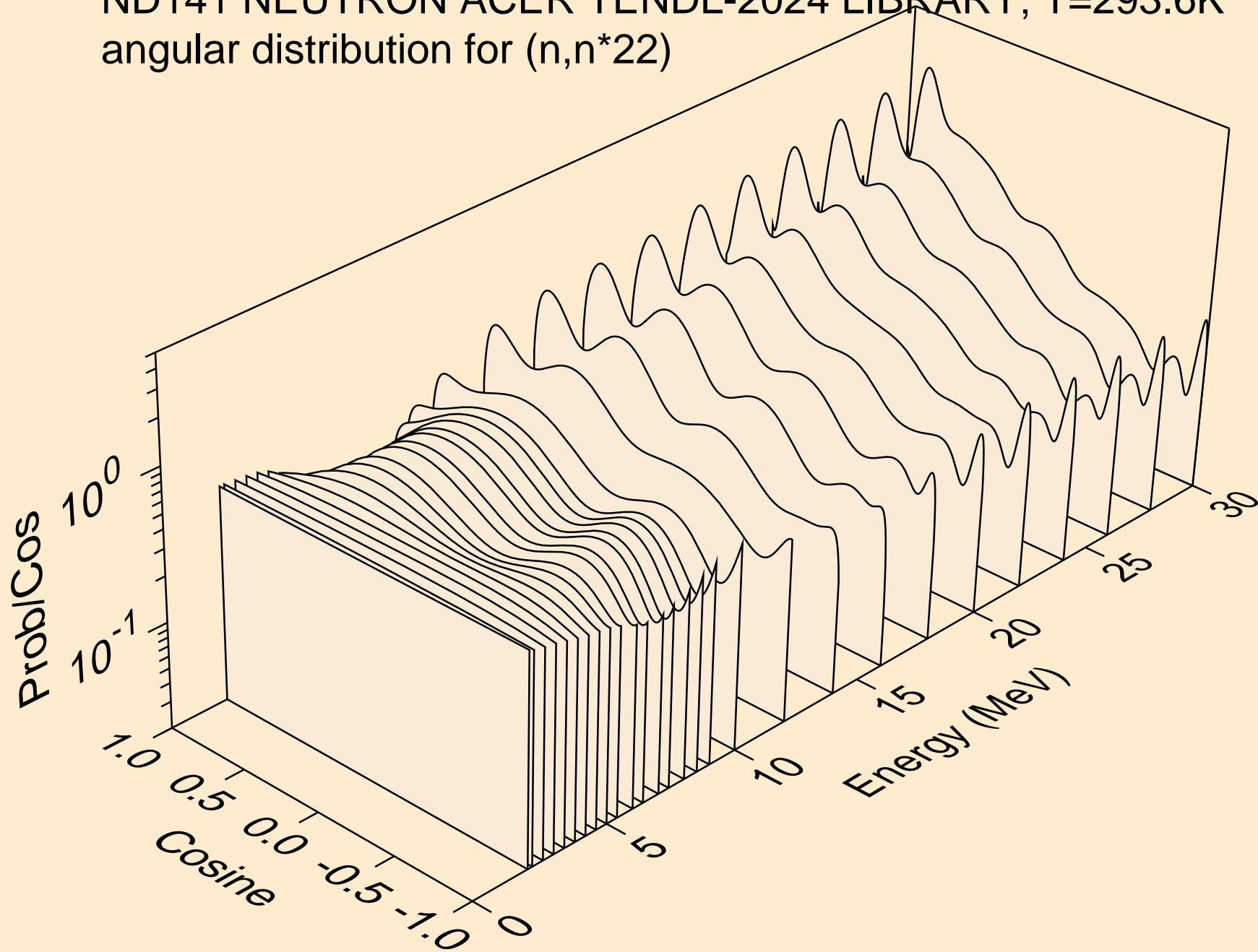
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angular distribution for (n,n\*20)



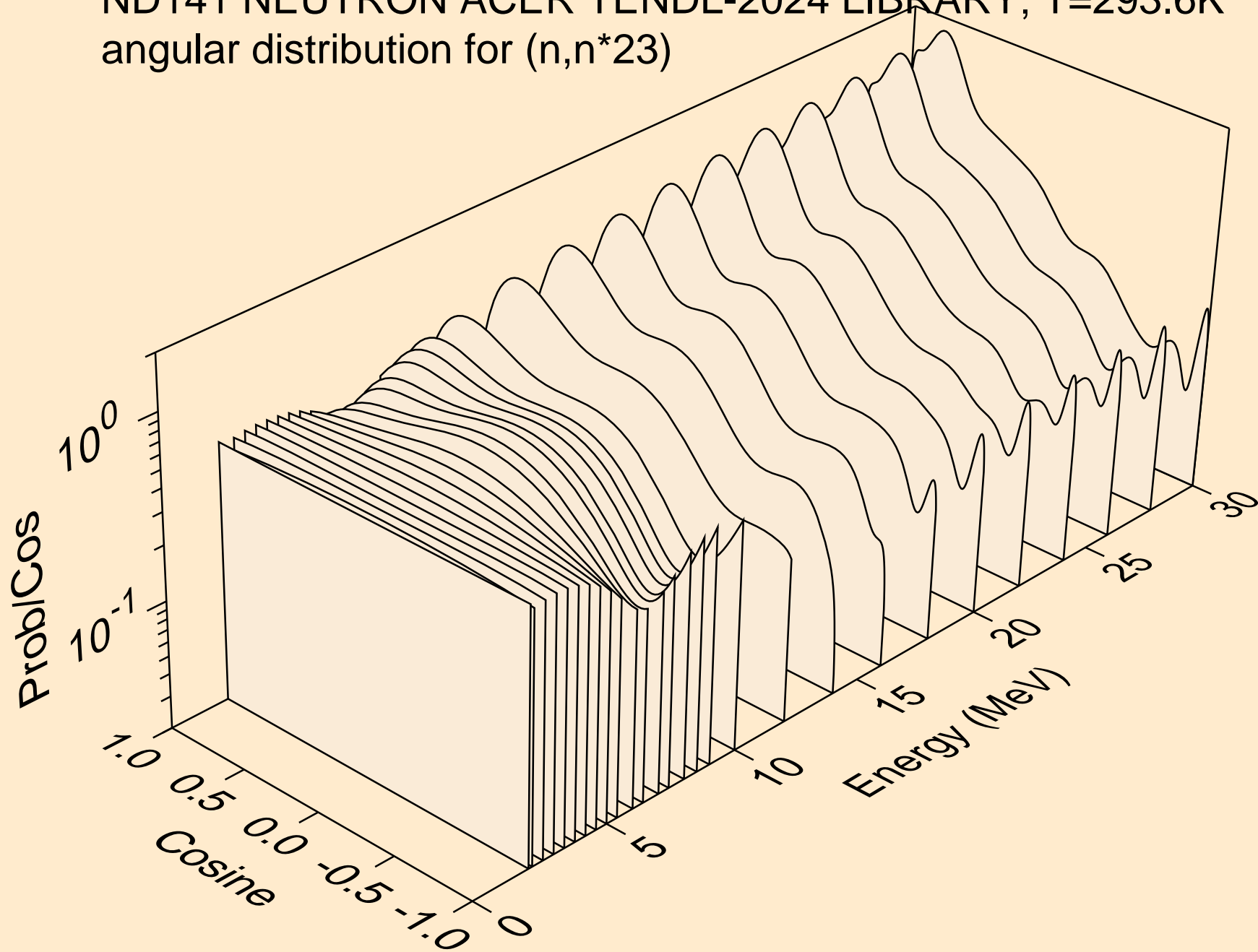
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angular distribution for (n,n\*21)



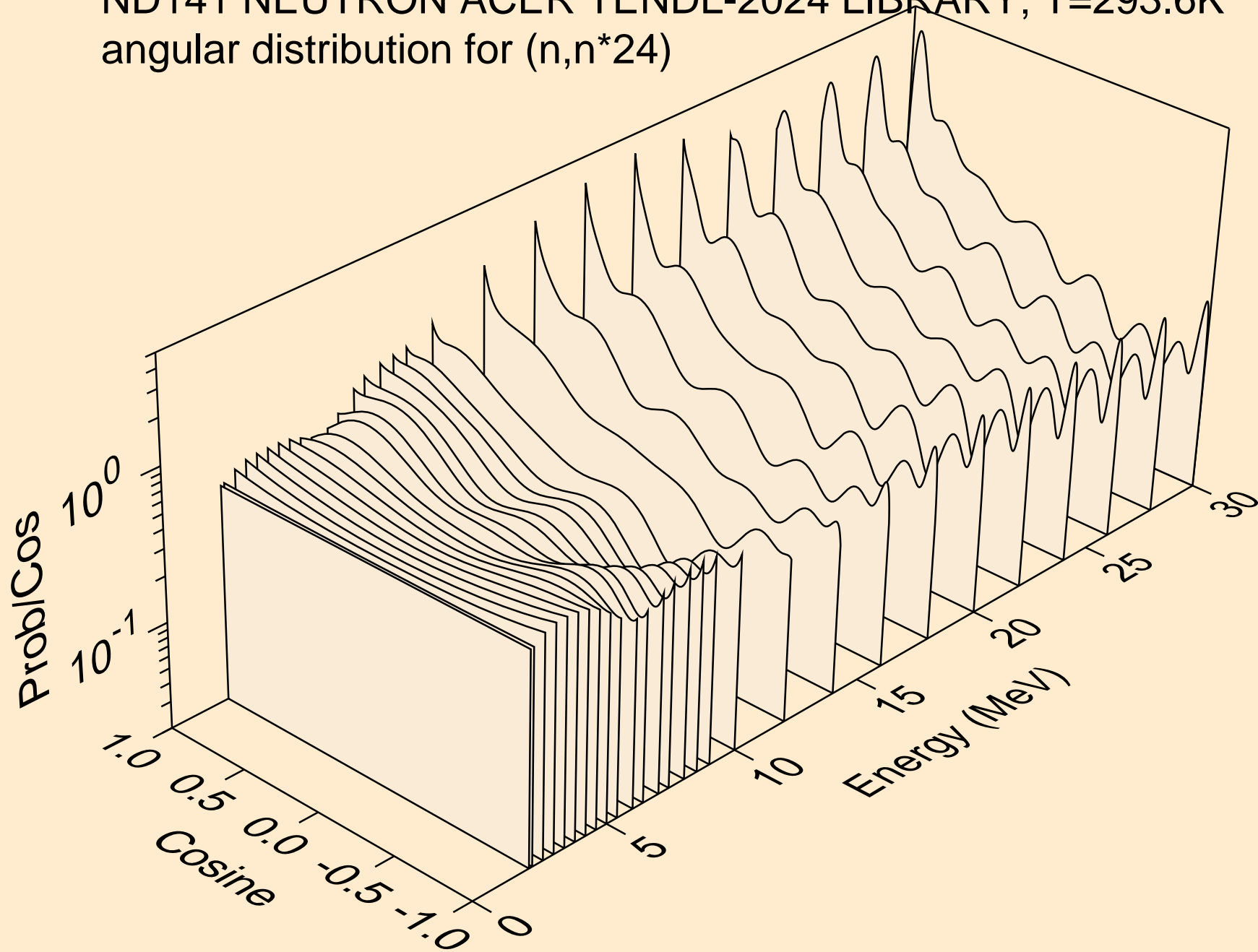
ND141 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
angular distribution for (n,n\*22)



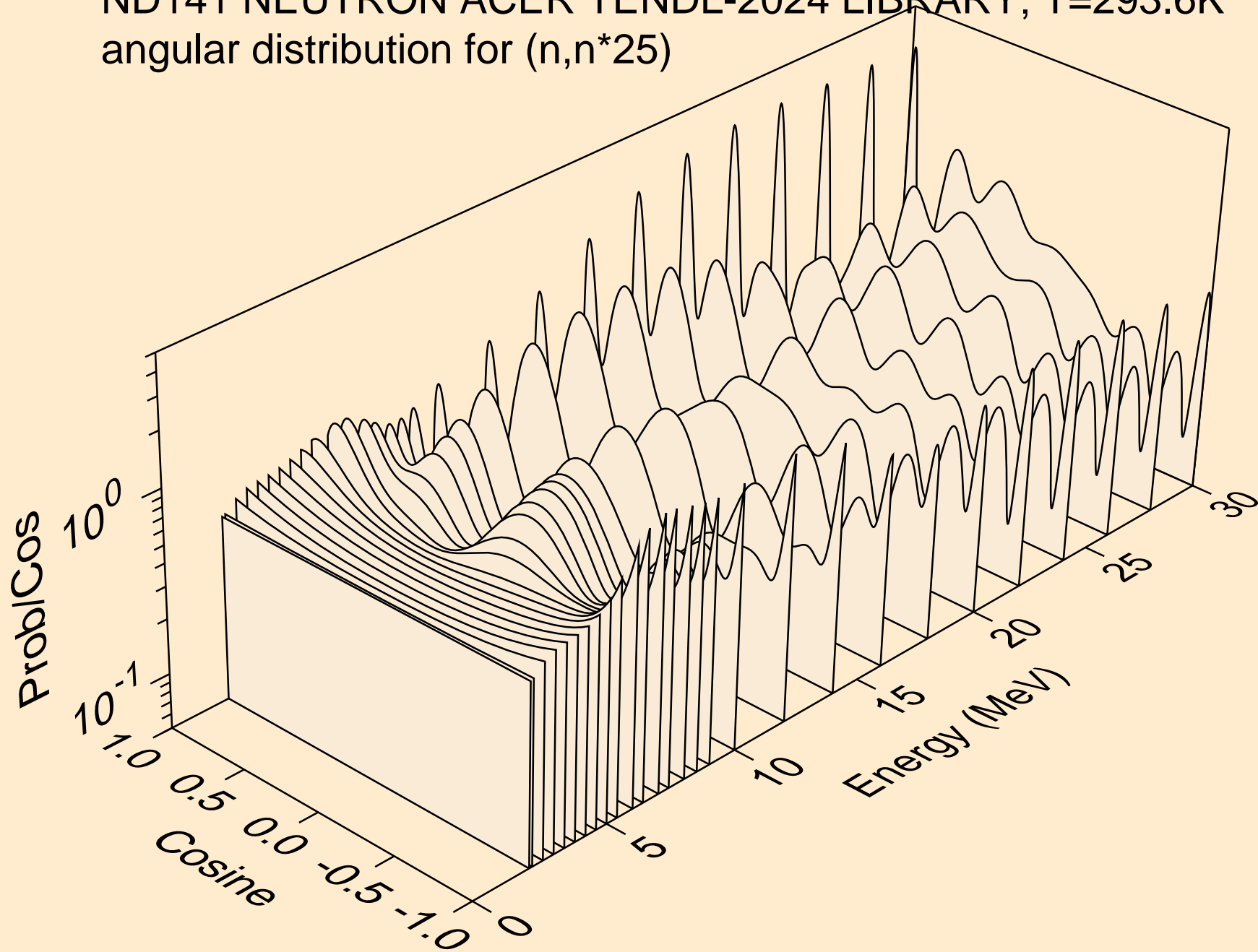
ND141 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
angular distribution for (n,n\*23)



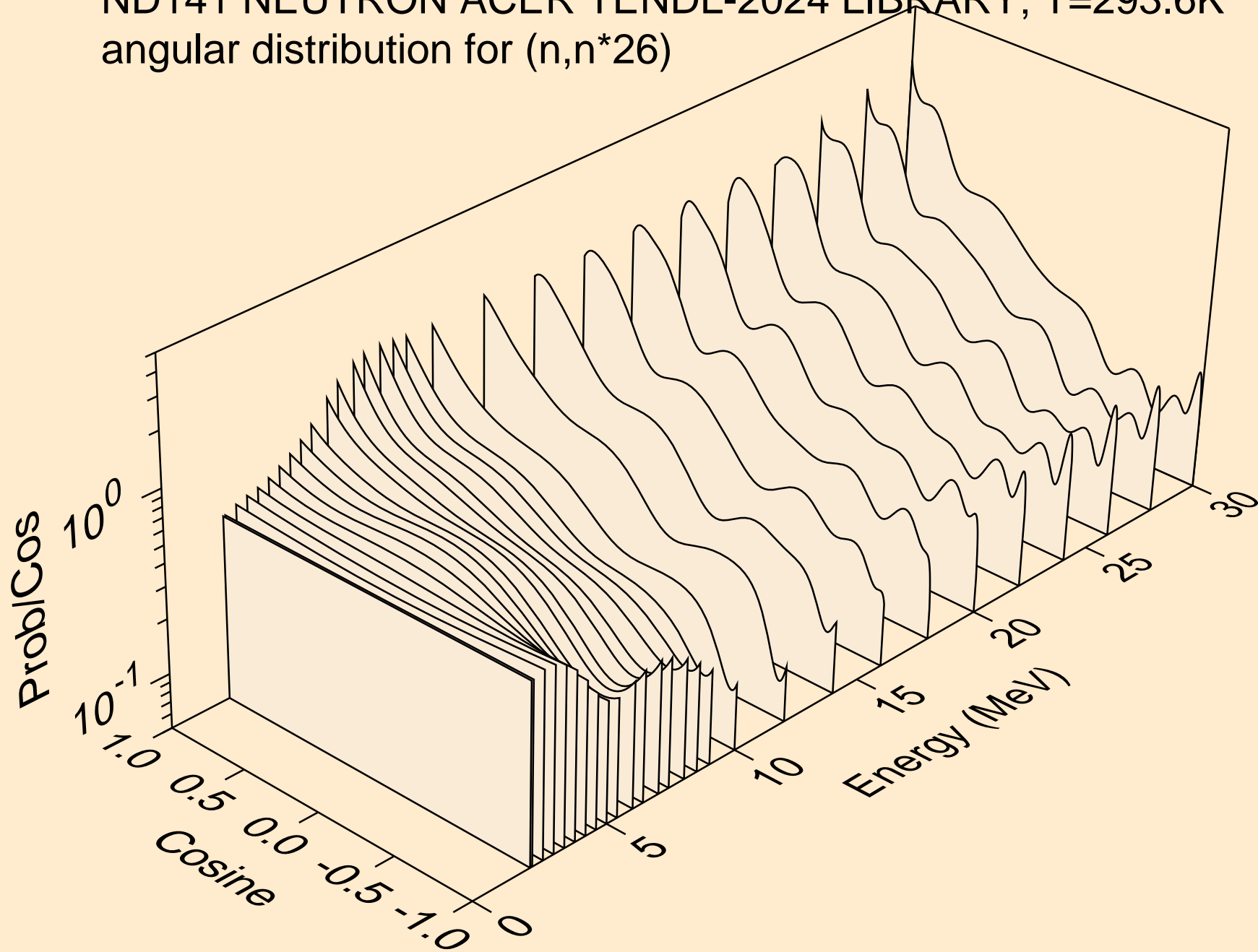
ND141 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
angular distribution for (n,n\*24)



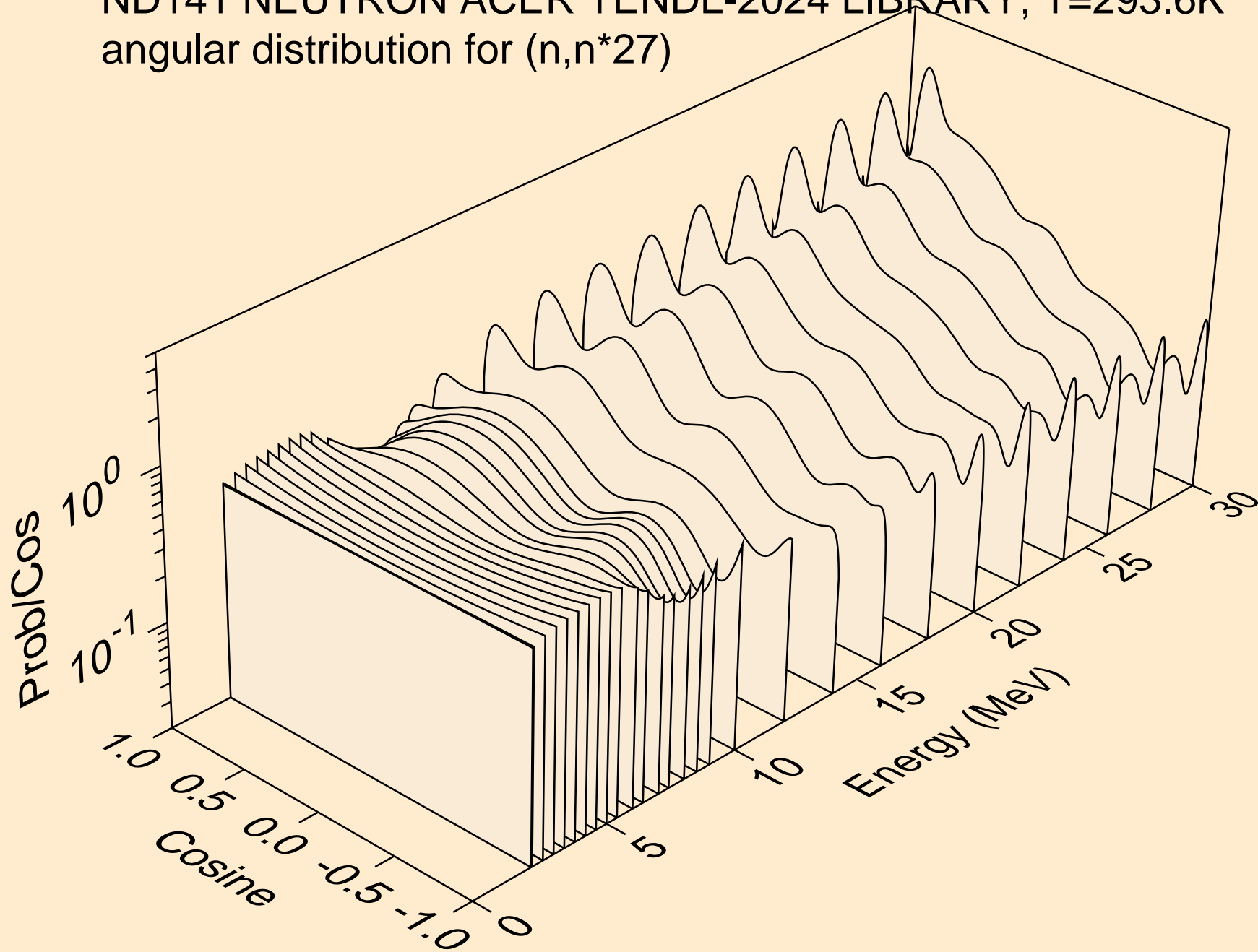
ND141 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
angular distribution for (n,n\*25)



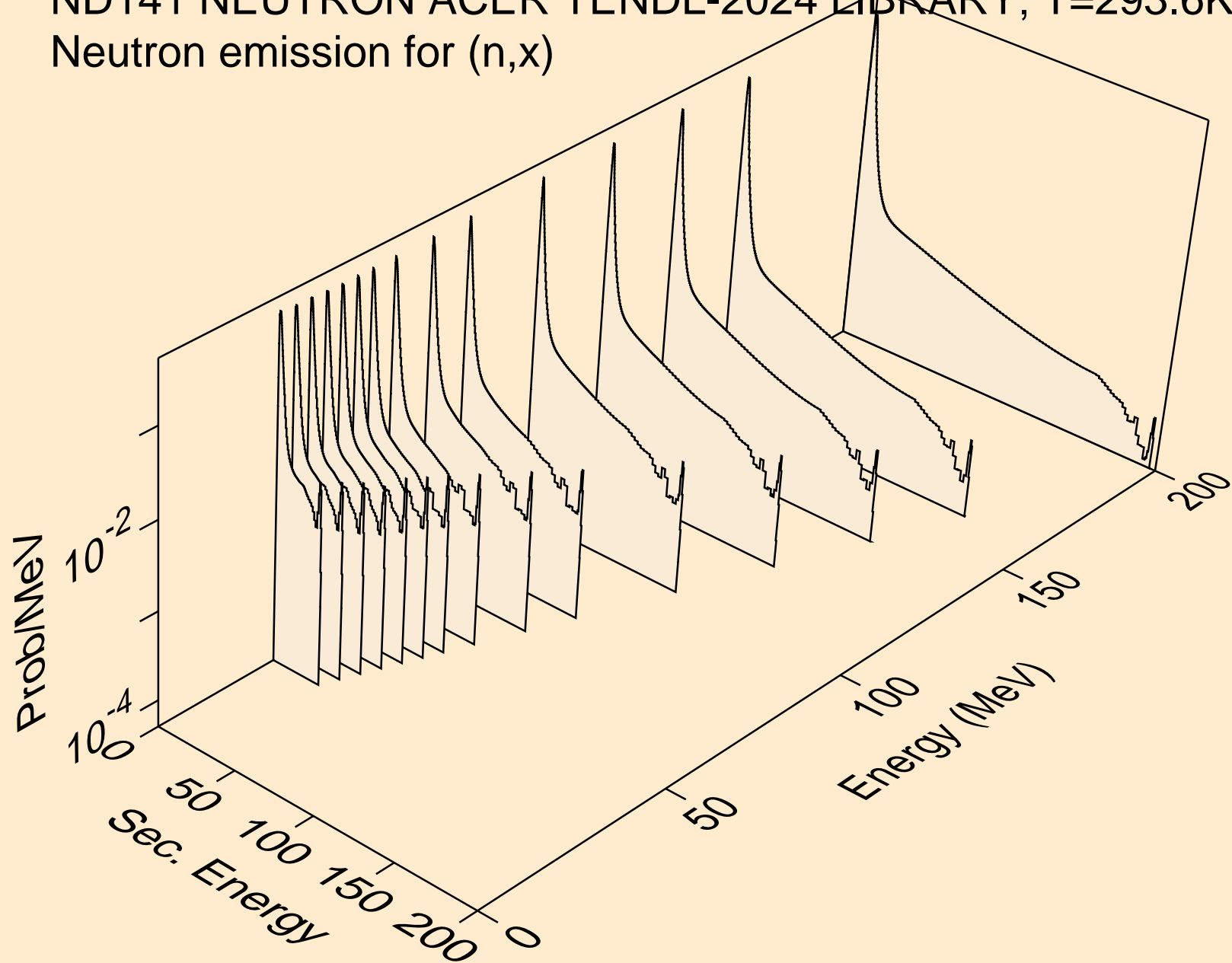
ND141 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
angular distribution for (n,n\*26)



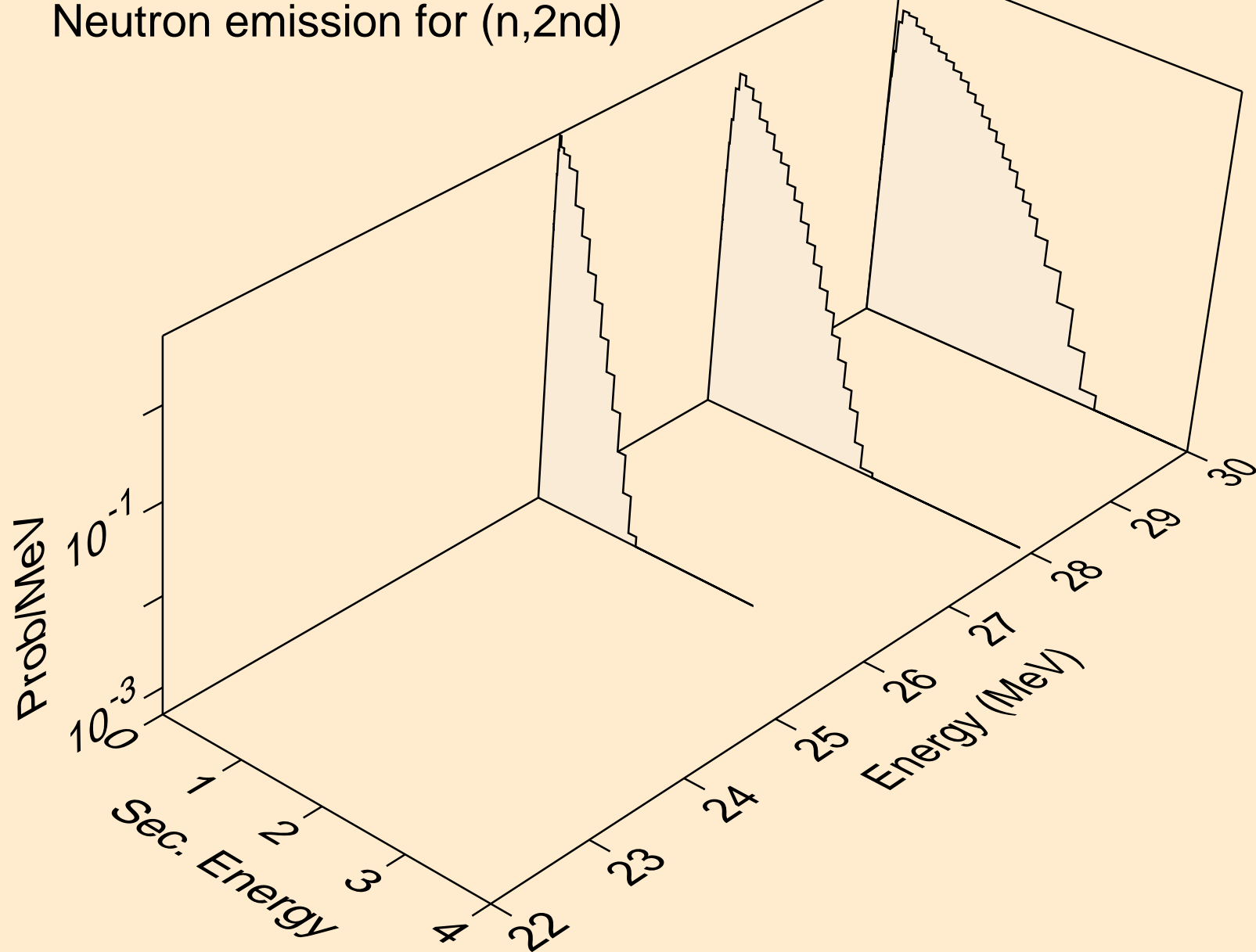
ND141 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
angular distribution for (n,n\*27)



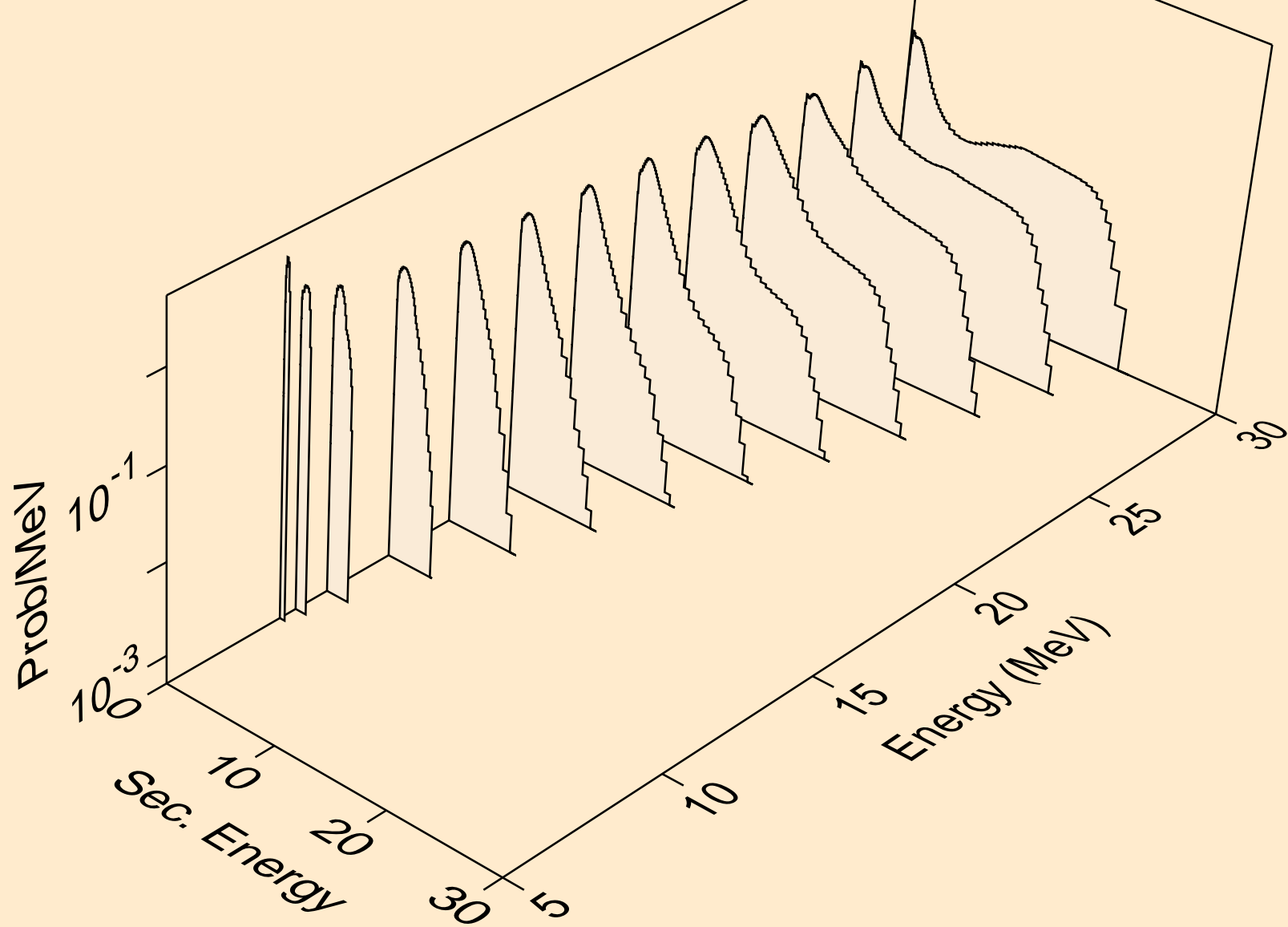
ND141 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Neutron emission for (n,x)



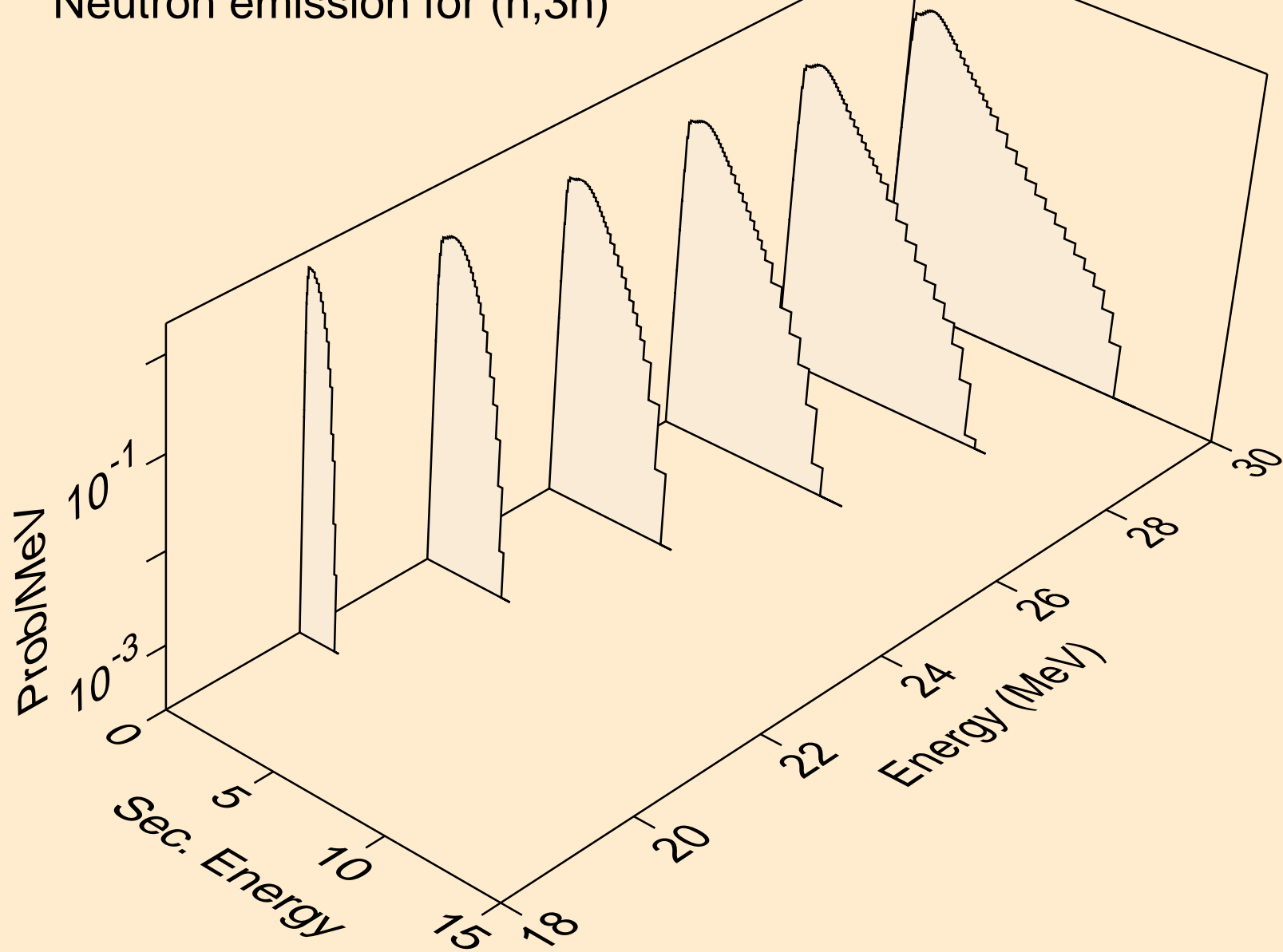
ND141 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Neutron emission for (n,2nd)



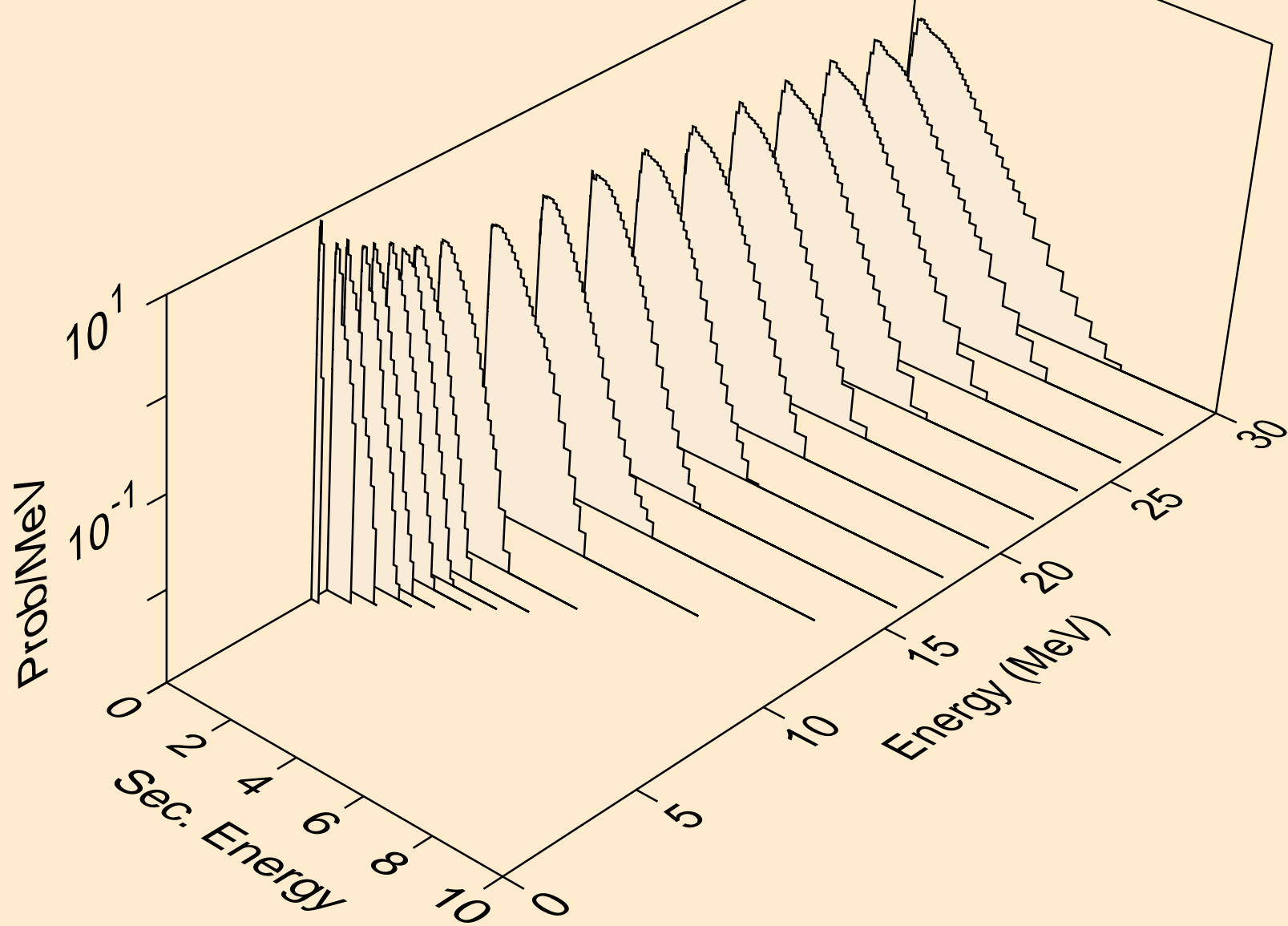
ND141 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Neutron emission for (n,2n)



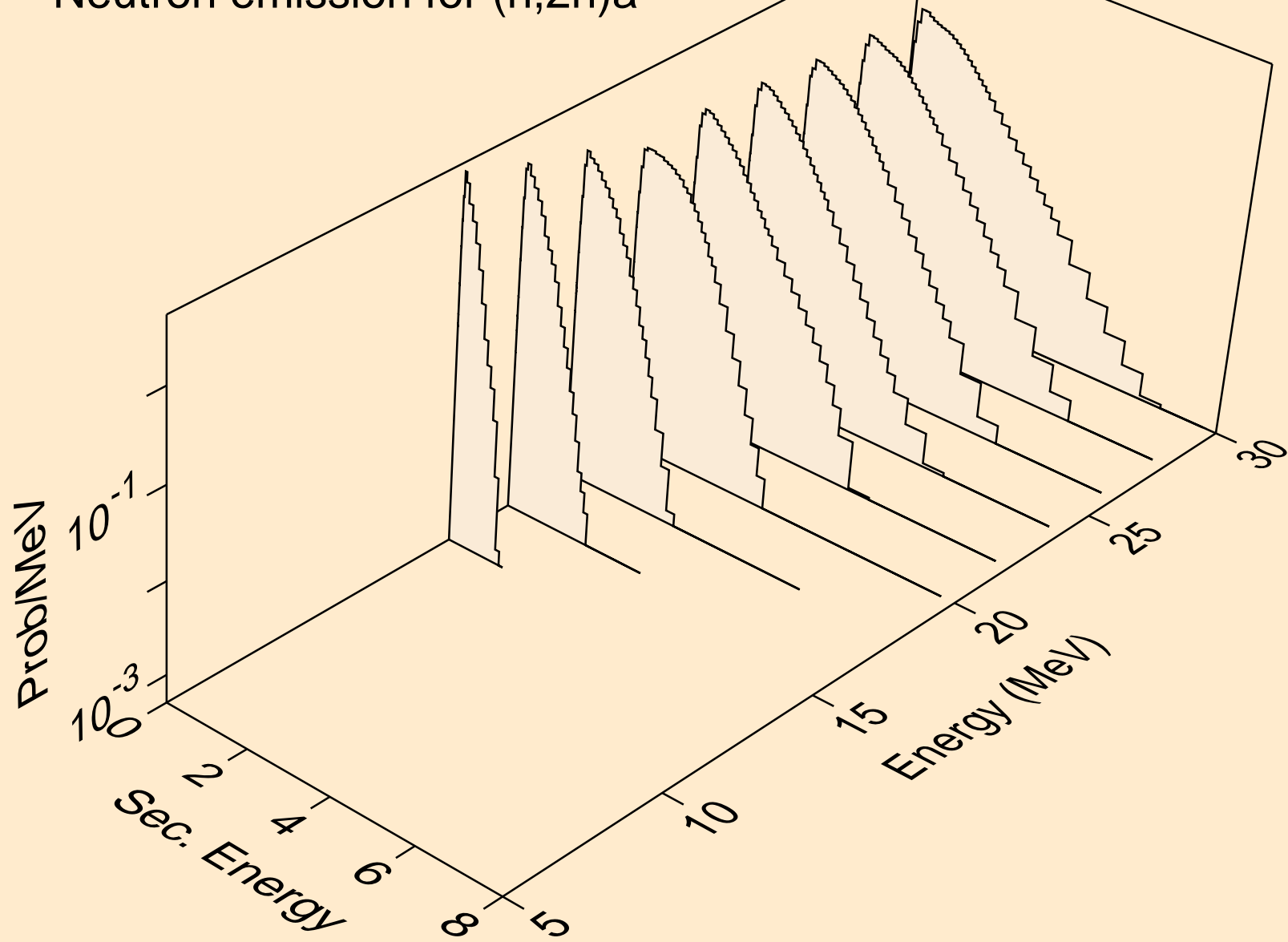
ND141 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Neutron emission for (n,3n)



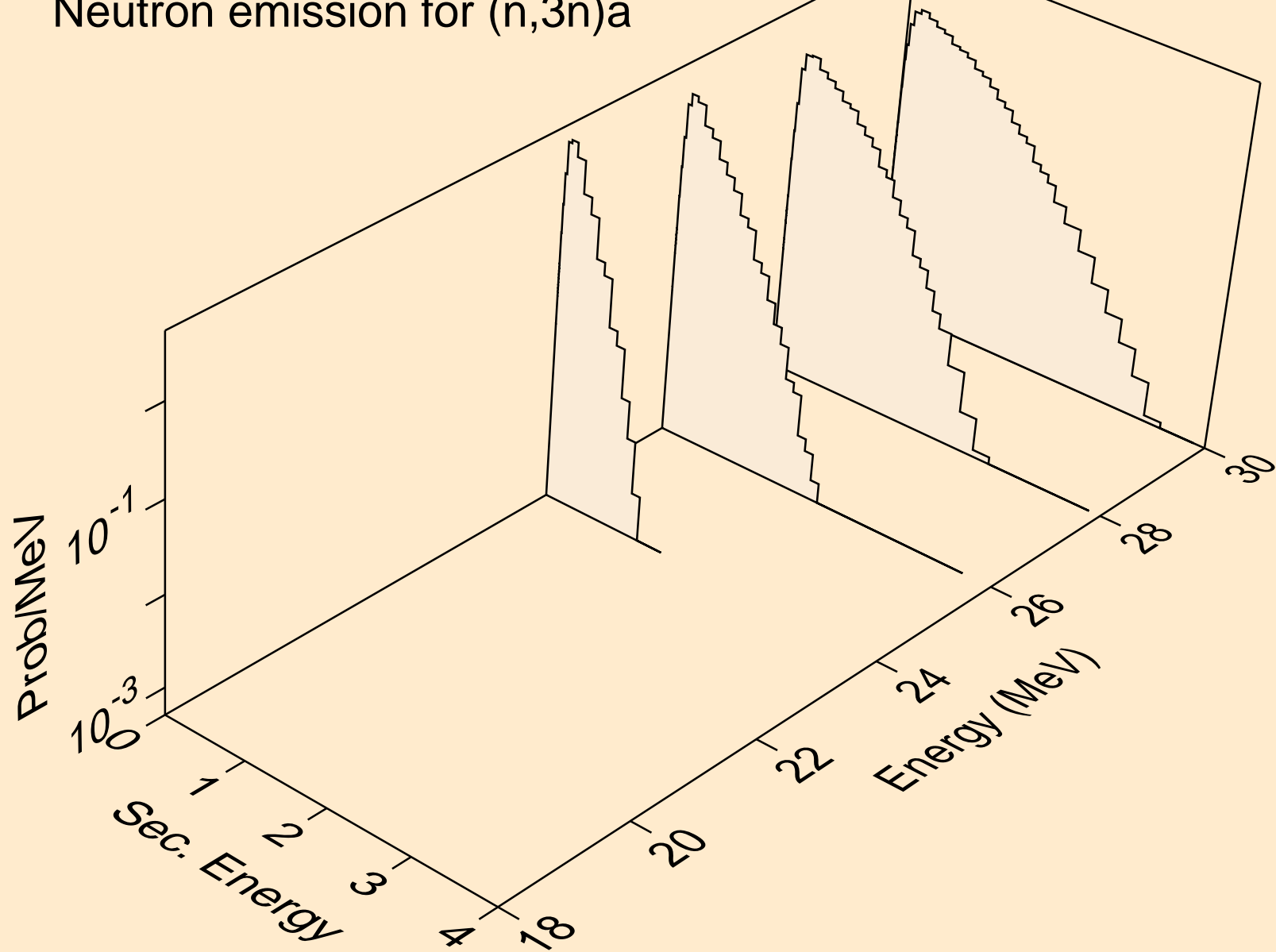
ND141 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Neutron emission for (n,n\*)a



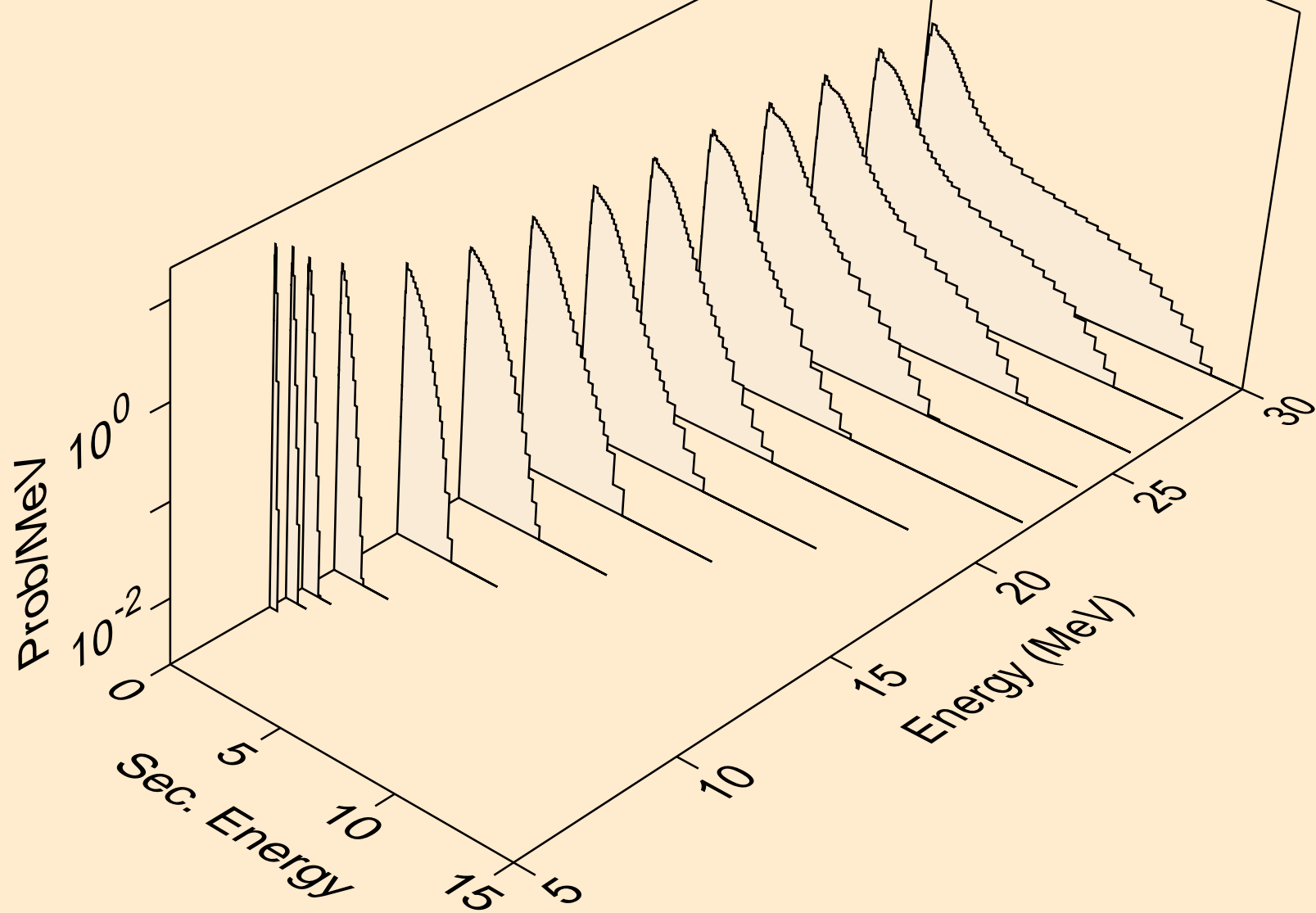
ND141 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Neutron emission for (n,2n)<sub>a</sub>



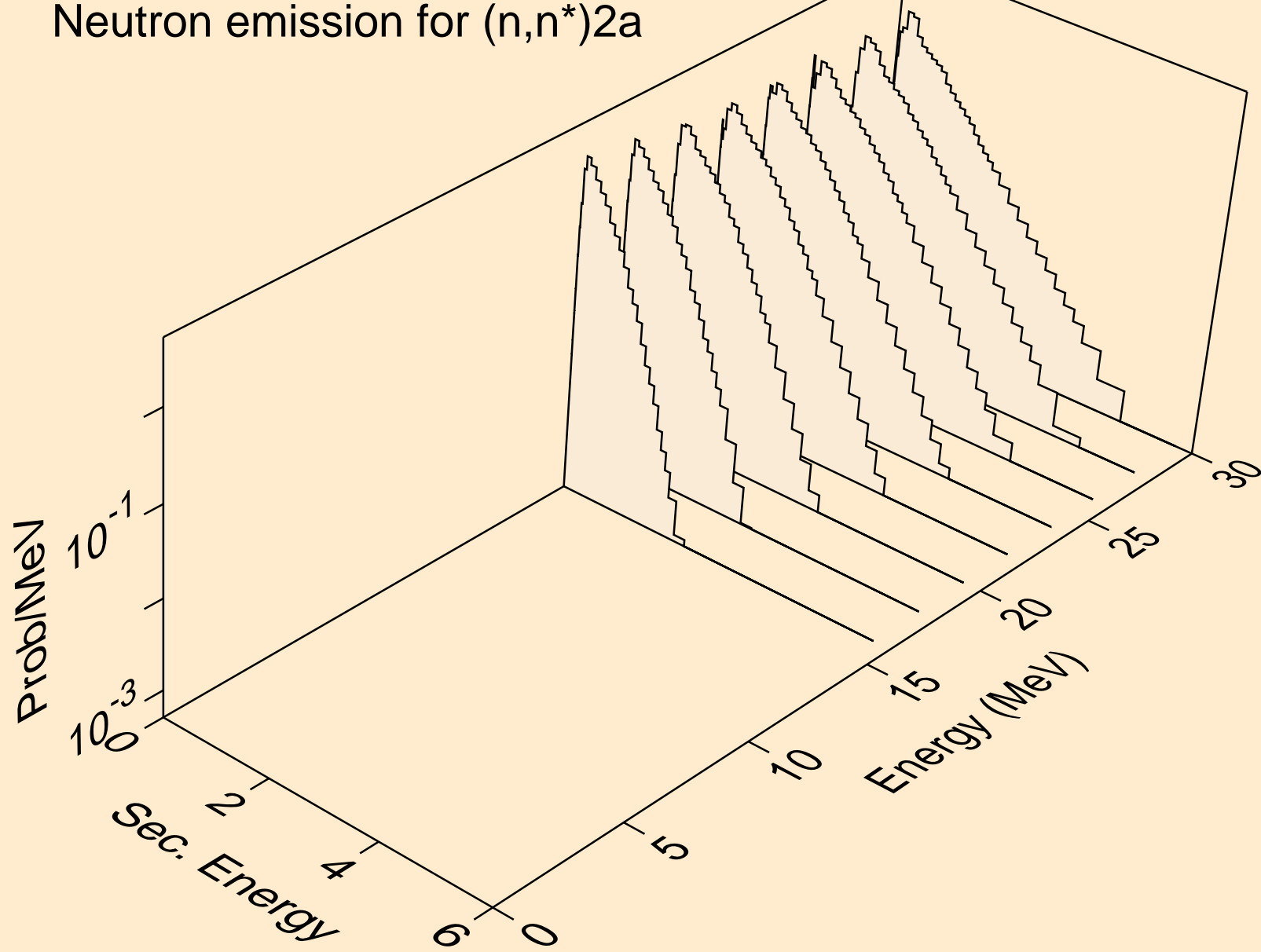
ND141 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Neutron emission for (n,3n)a



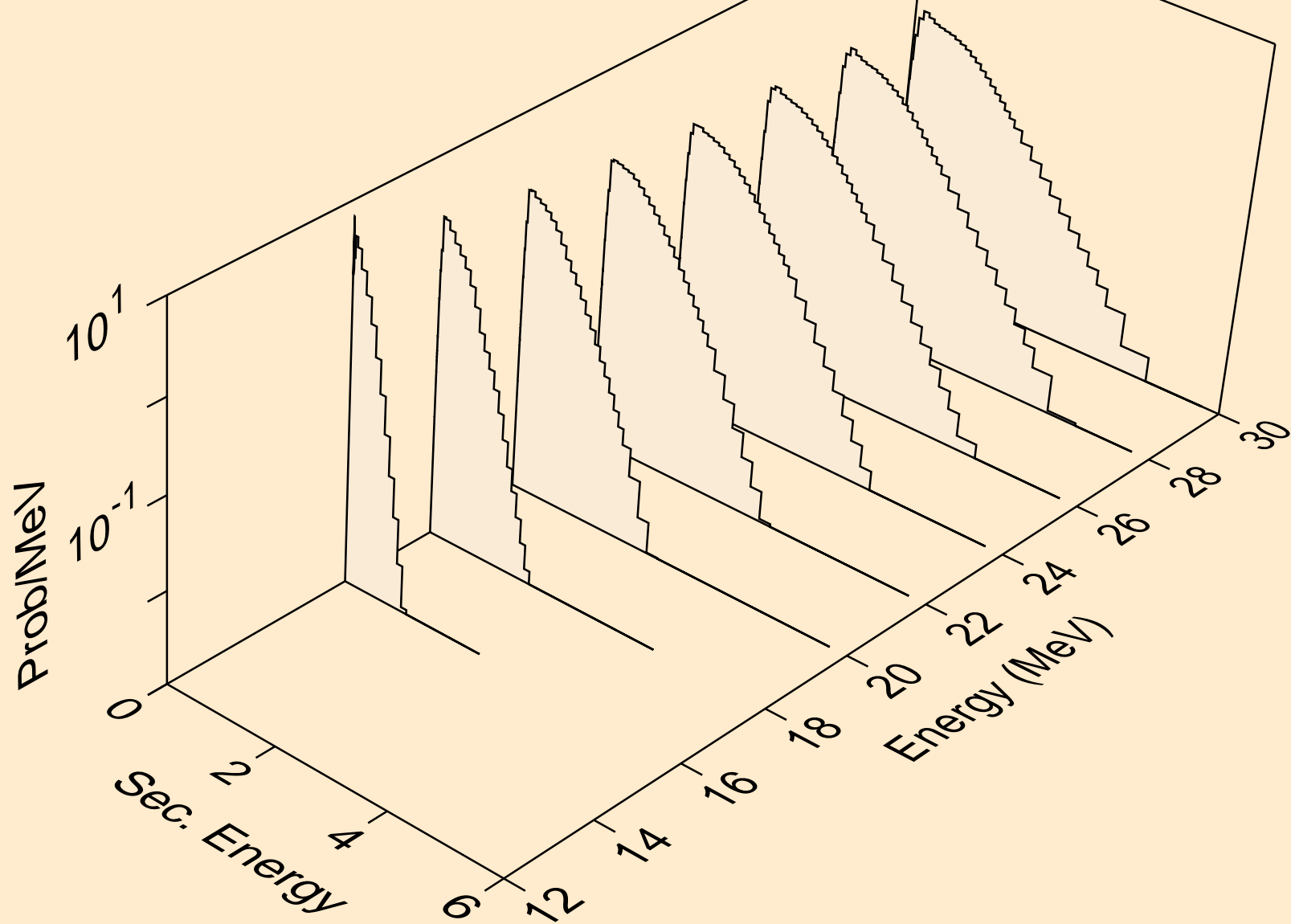
ND141 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Neutron emission for (n,n\*)p



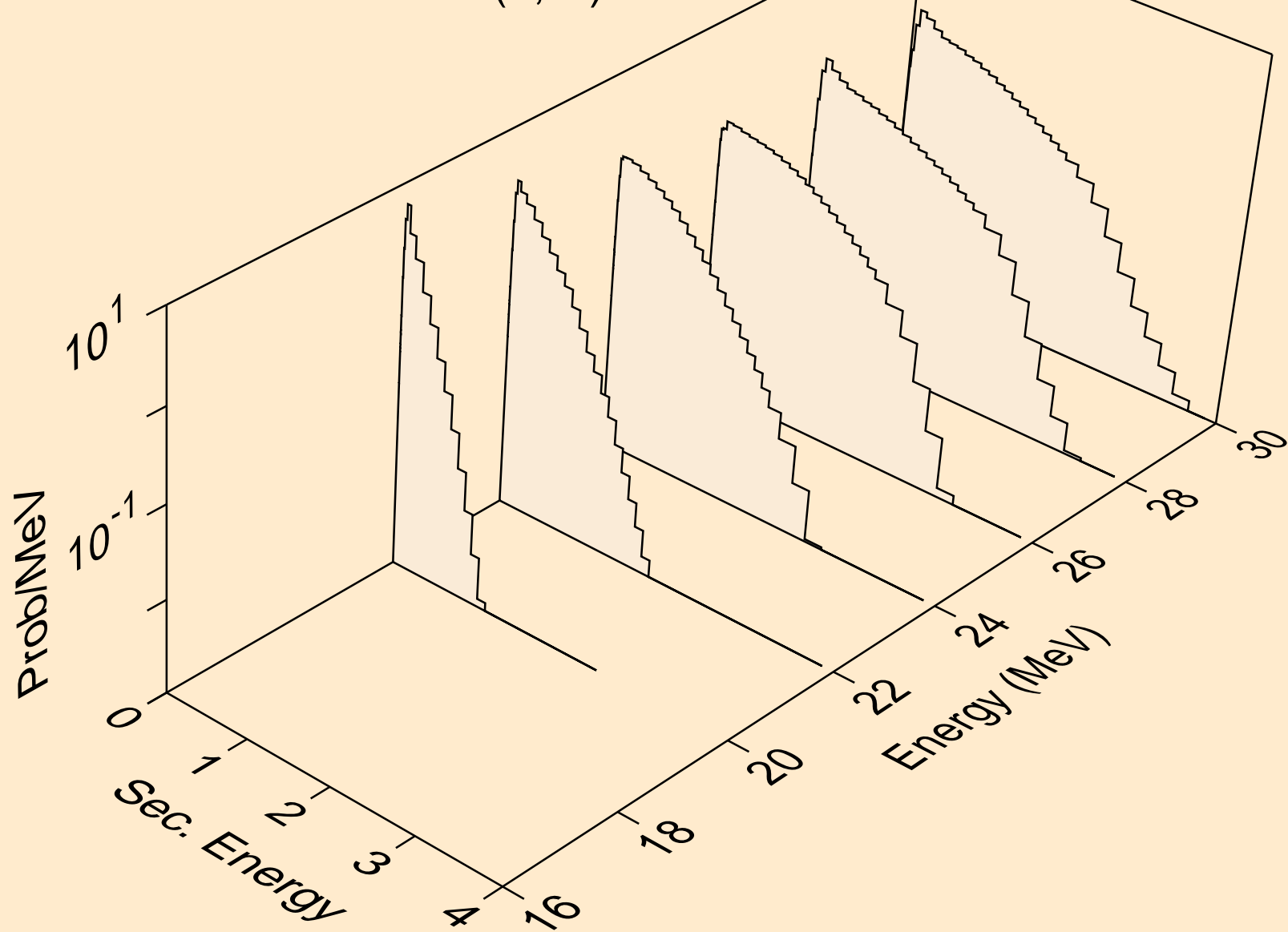
ND141 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Neutron emission for (n,n\*)2a



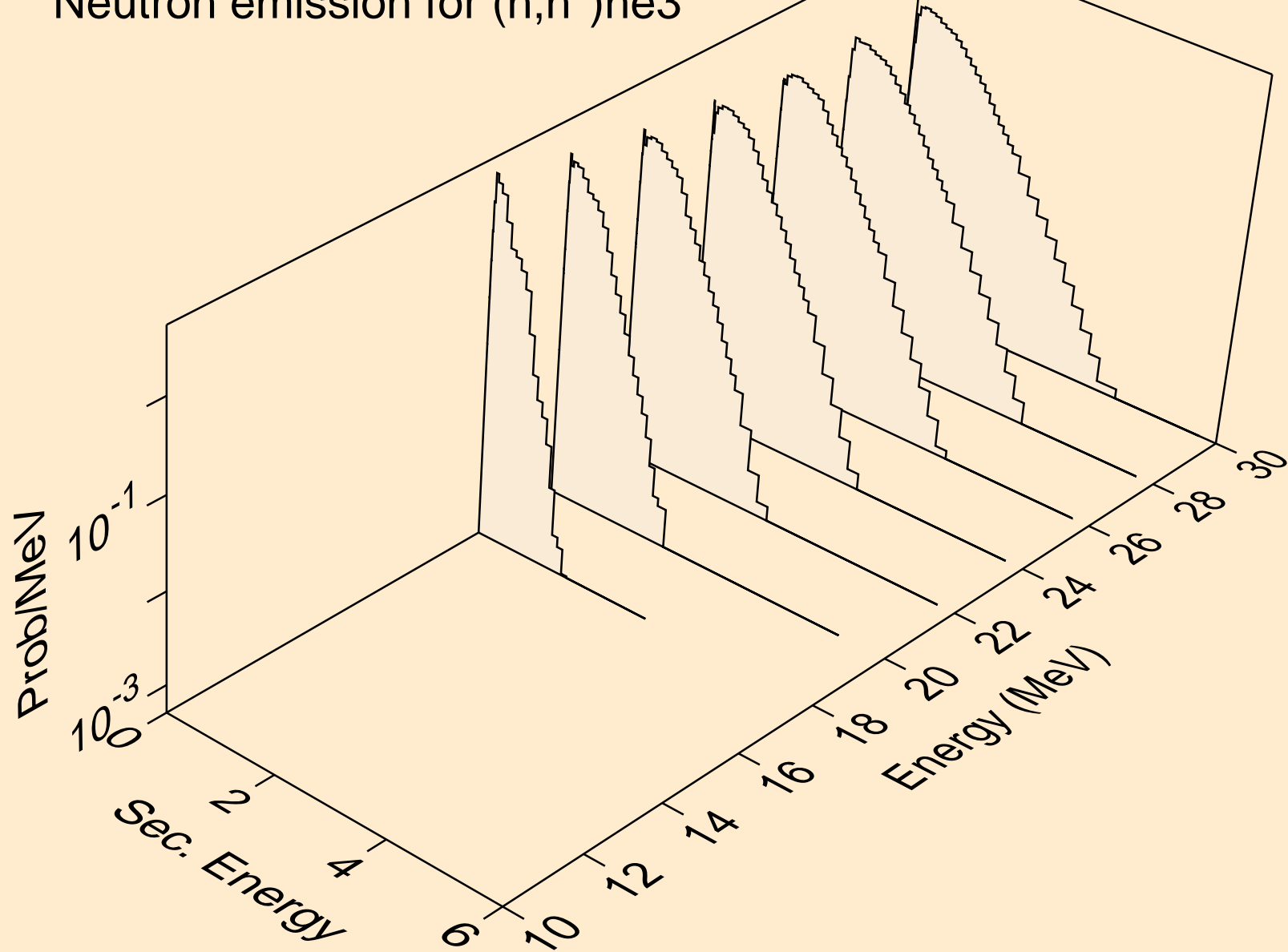
ND141 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Neutron emission for (n,n\*)d



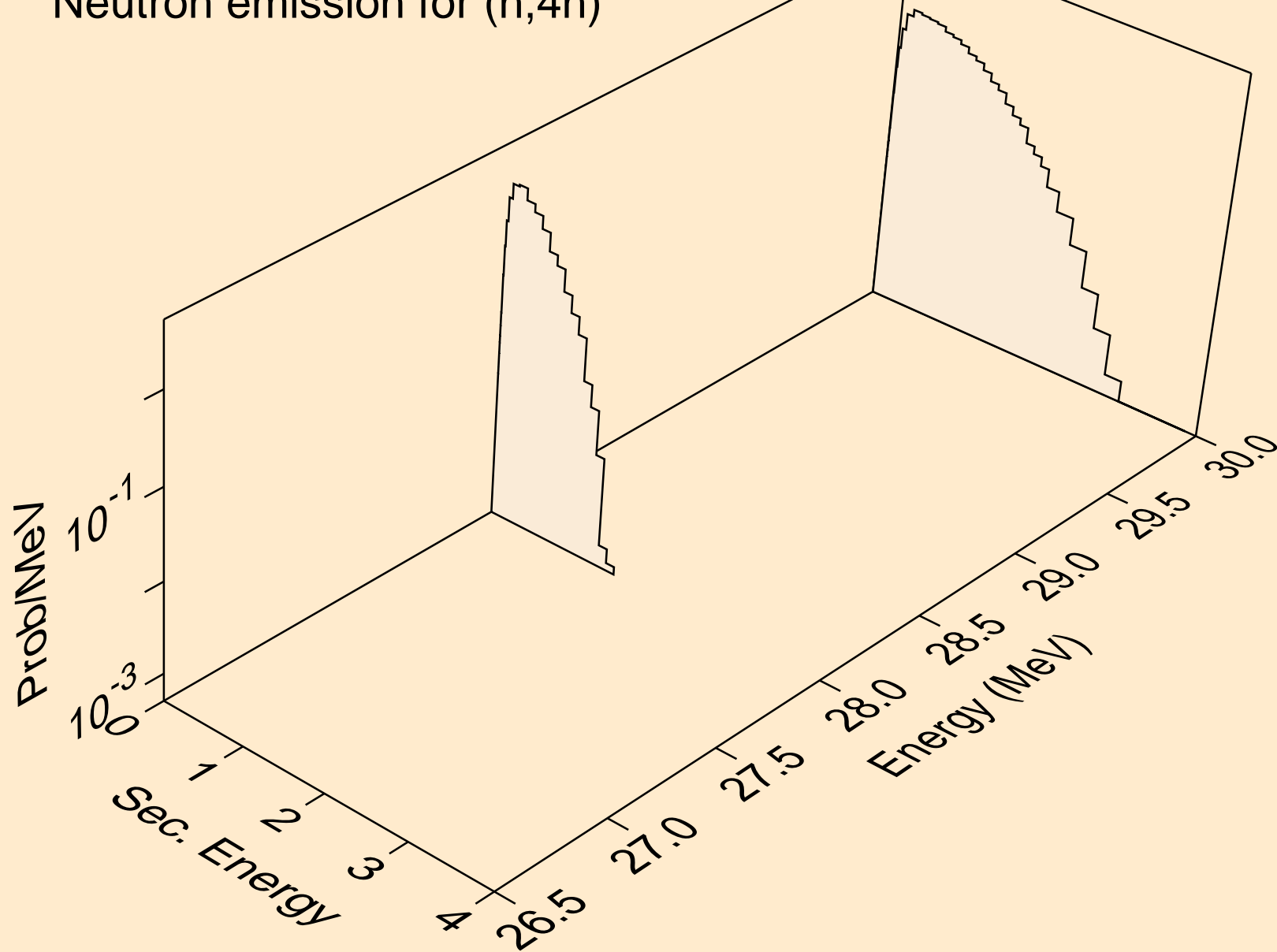
ND141 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Neutron emission for (n,n\*)t



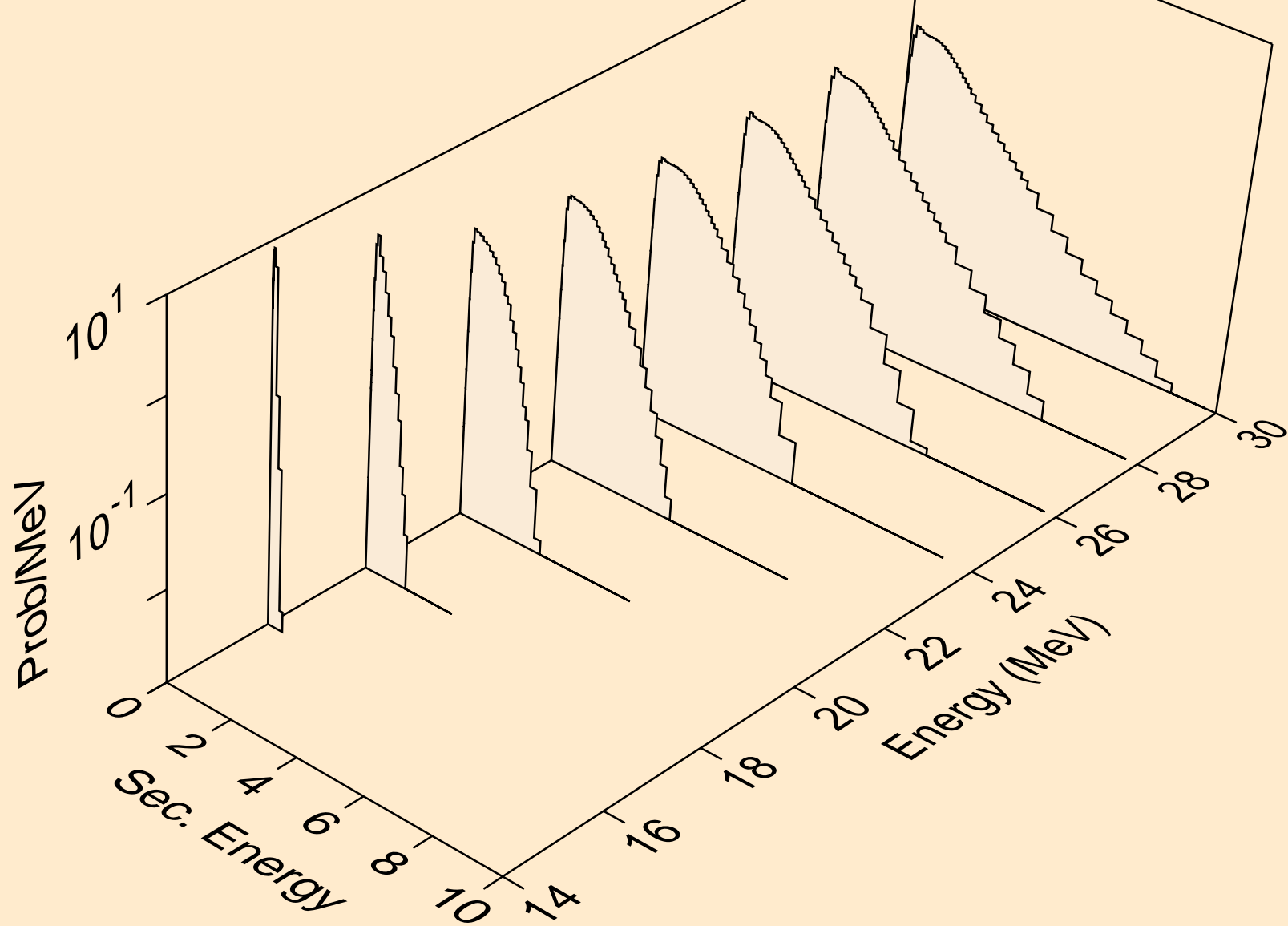
ND141 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Neutron emission for (n,n\*)he3



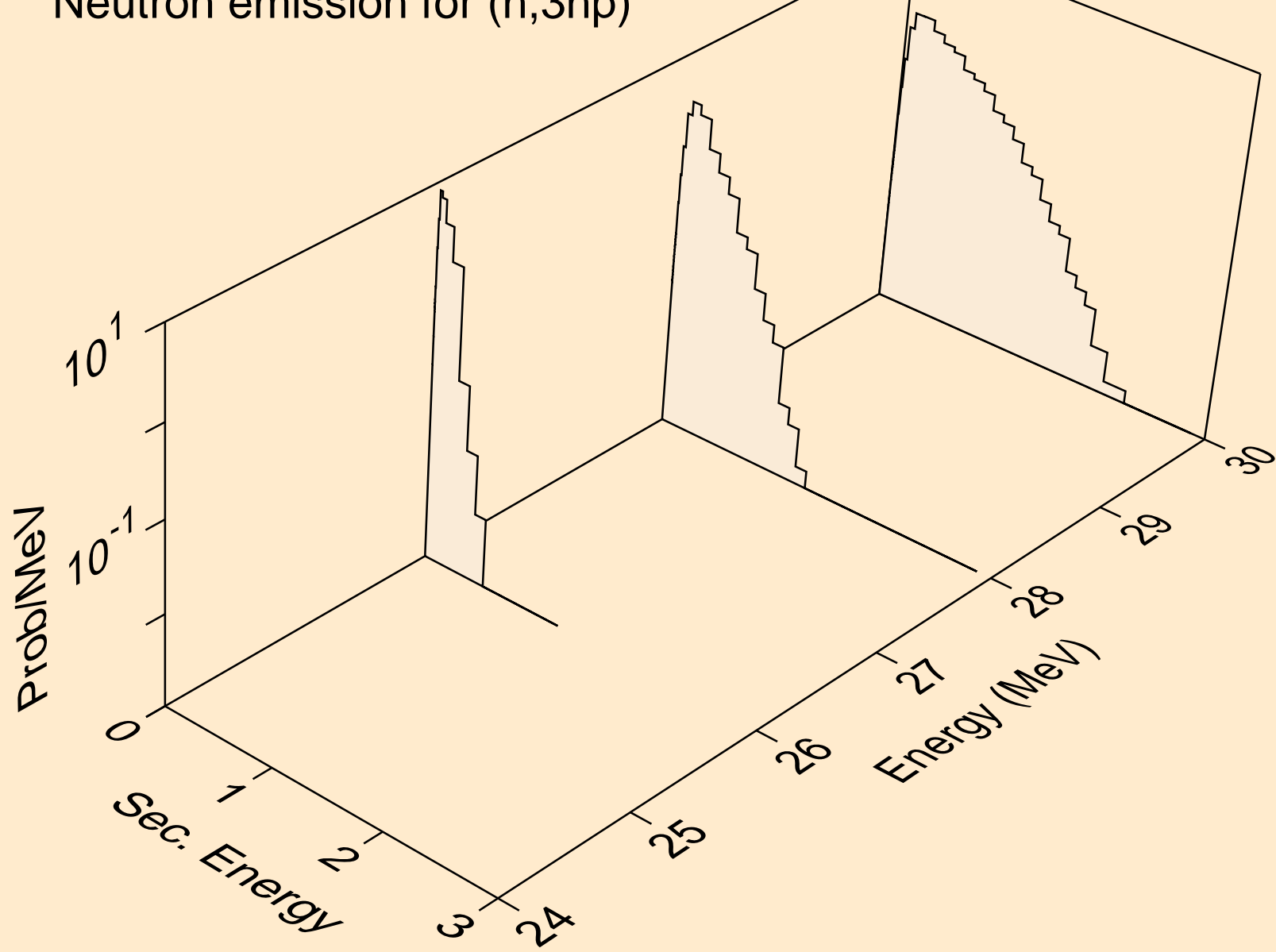
ND141 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Neutron emission for (n,4n)



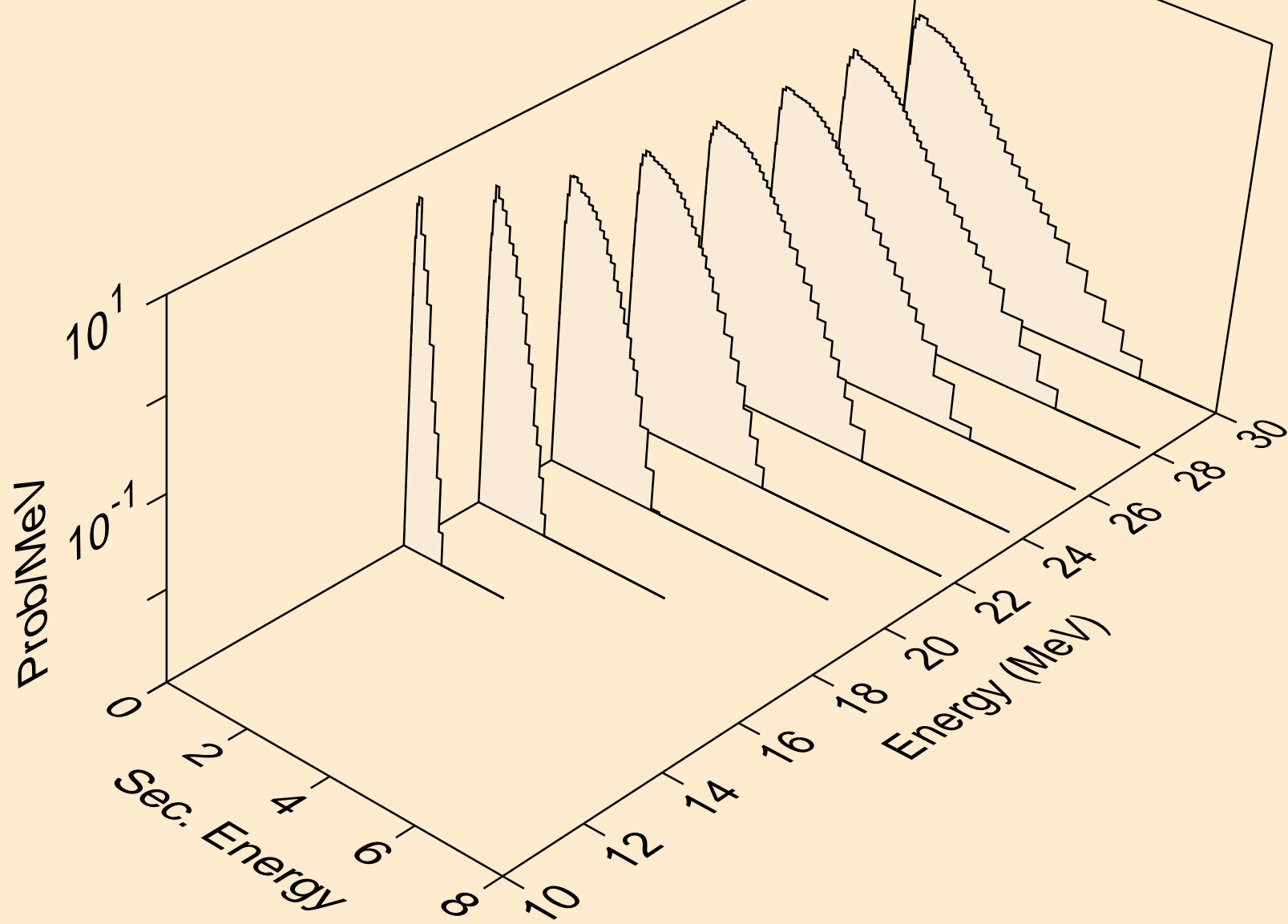
ND141 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Neutron emission for (n,2np)



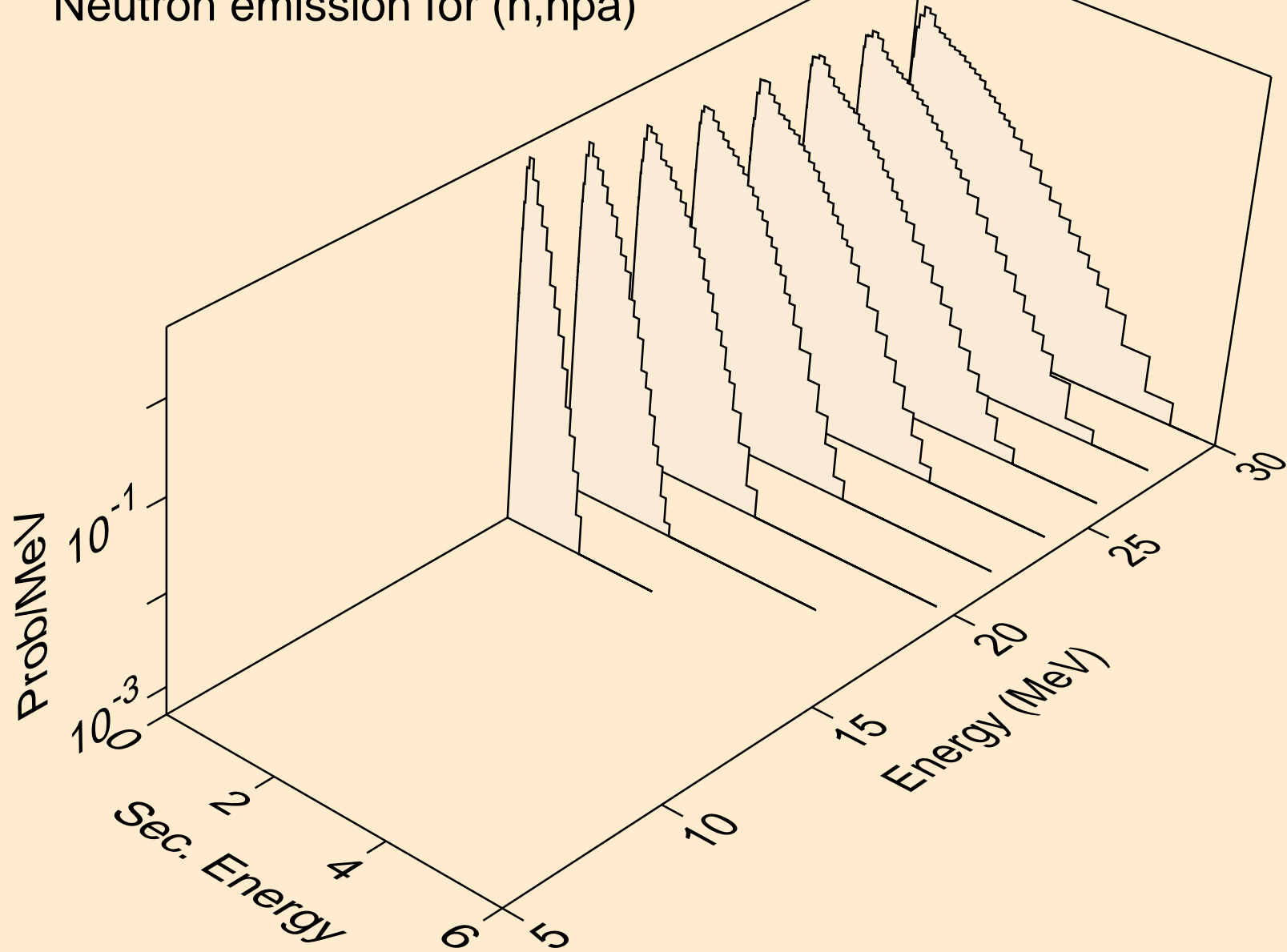
ND141 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Neutron emission for (n,3np)



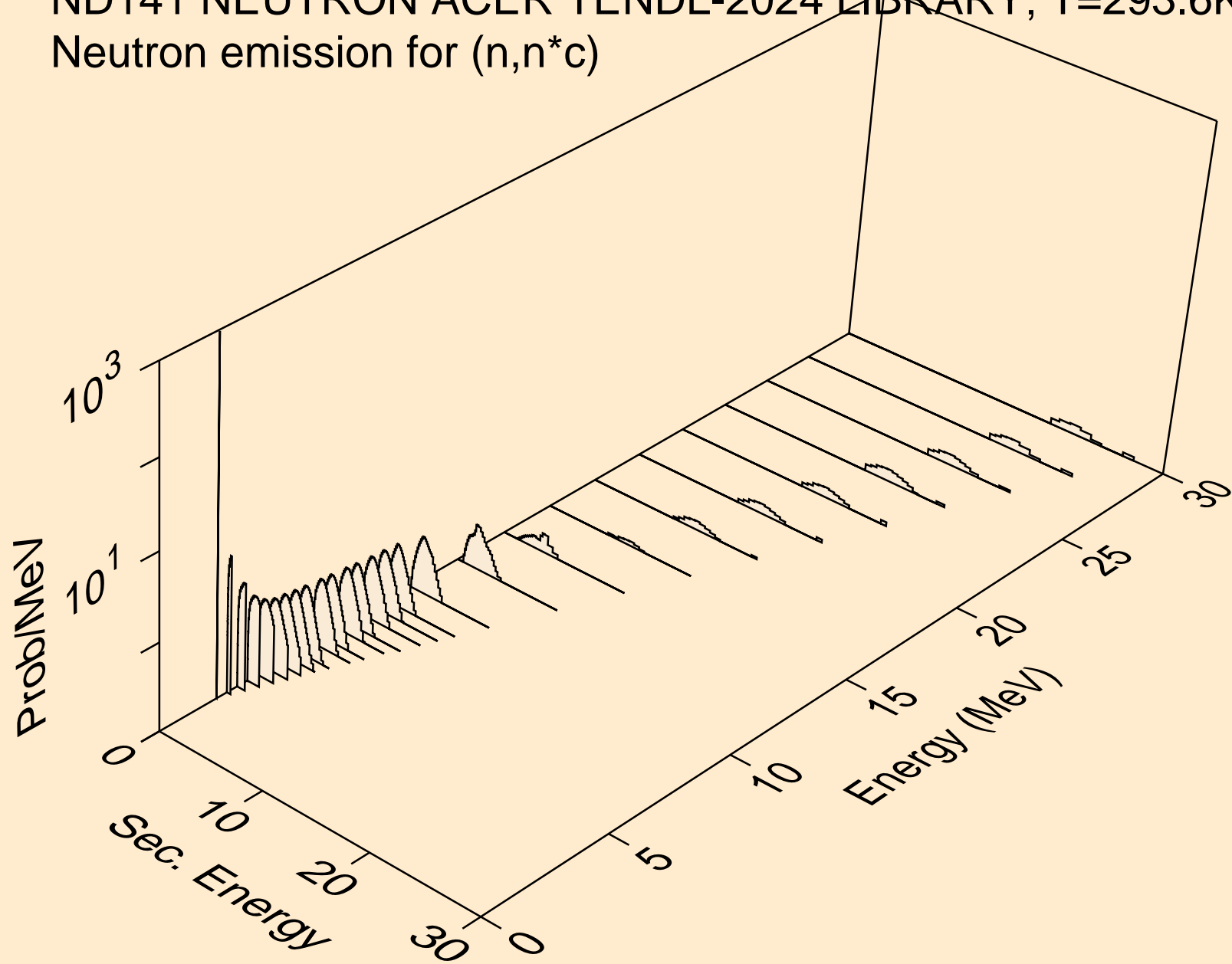
ND141 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Neutron emission for (n,n2p)



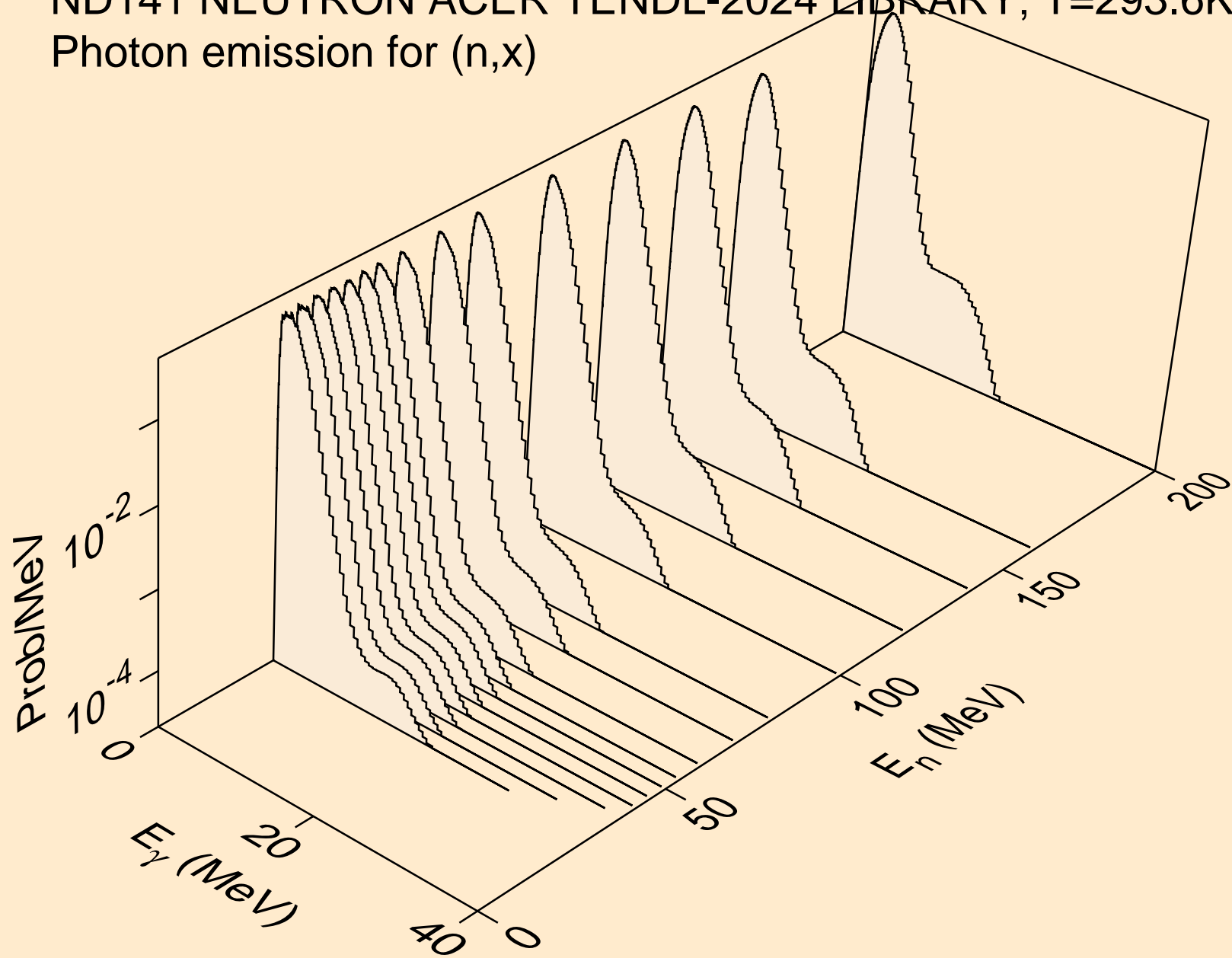
ND141 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Neutron emission for (n,npa)



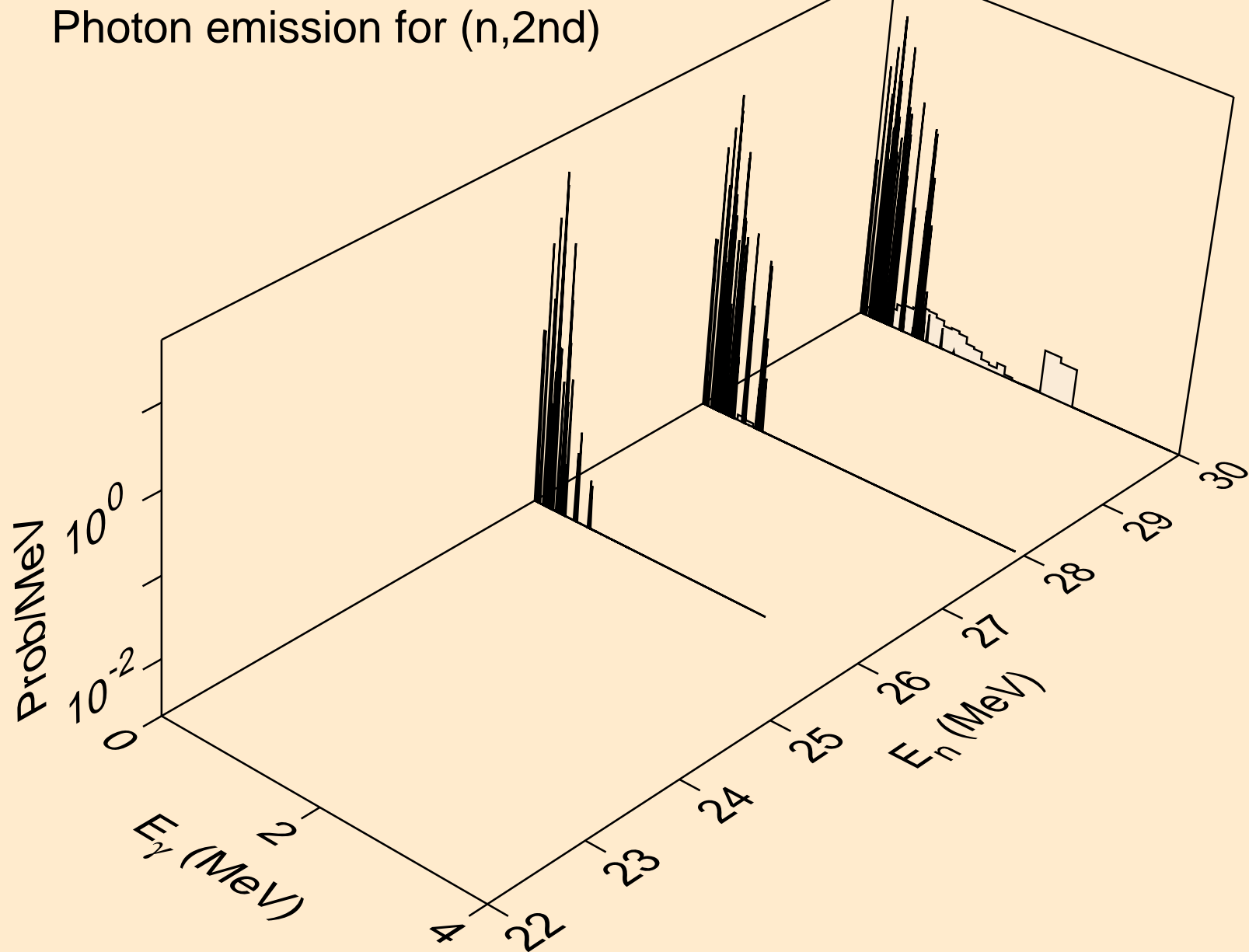
ND141 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Neutron emission for (n,n\*c)



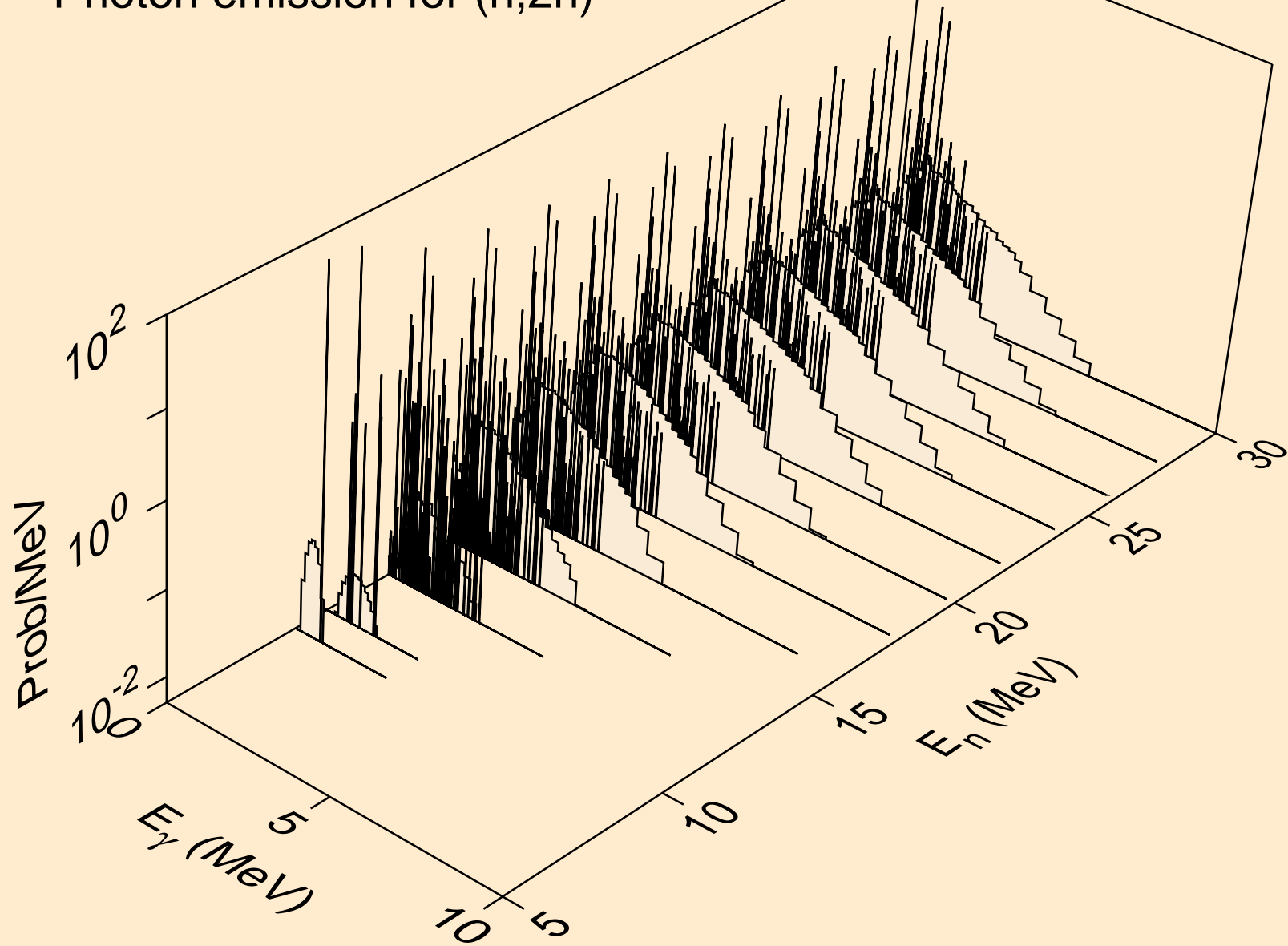
ND141 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Photon emission for (n,x)



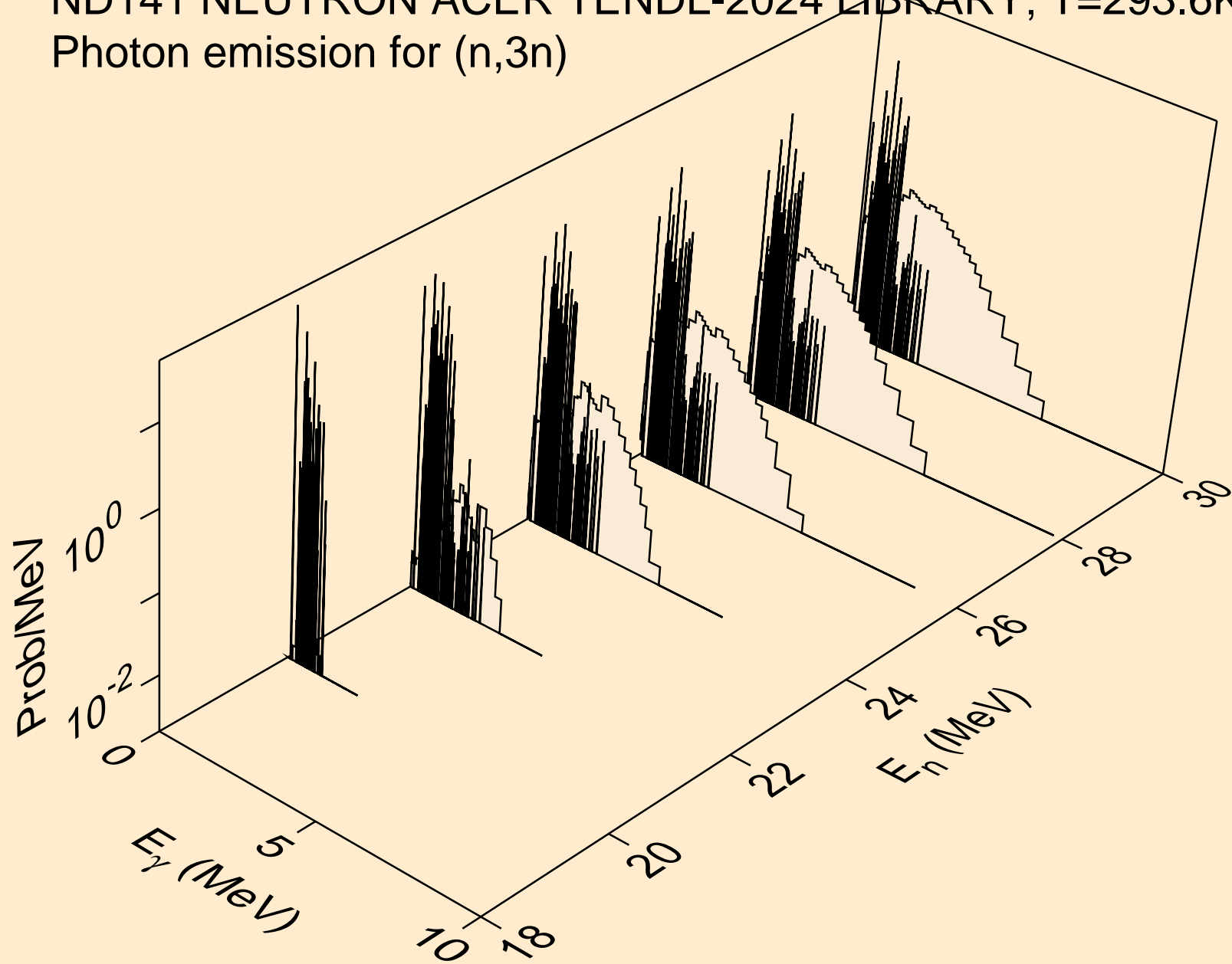
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Photon emission for (n,2nd)



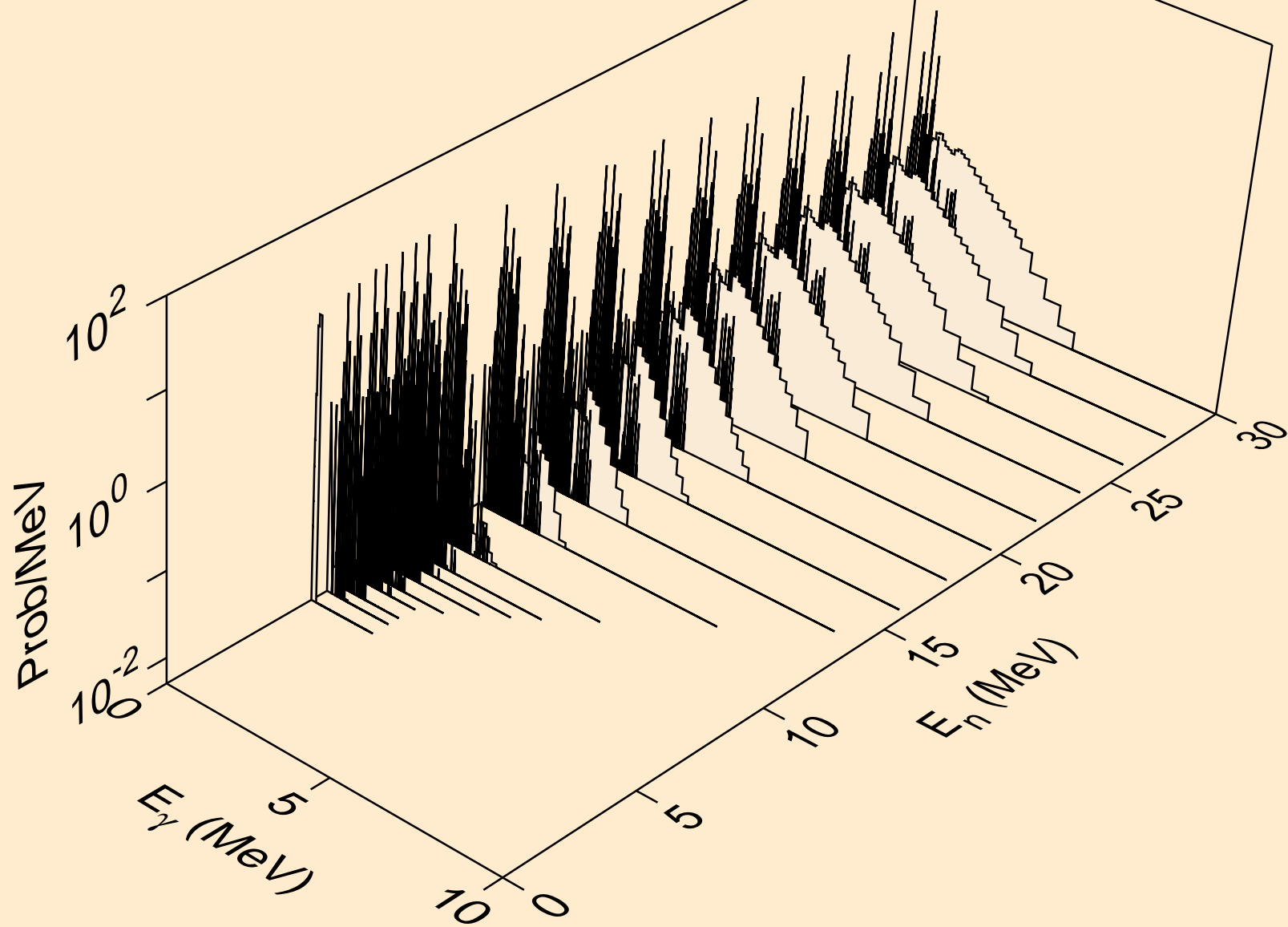
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Photon emission for (n,2n)



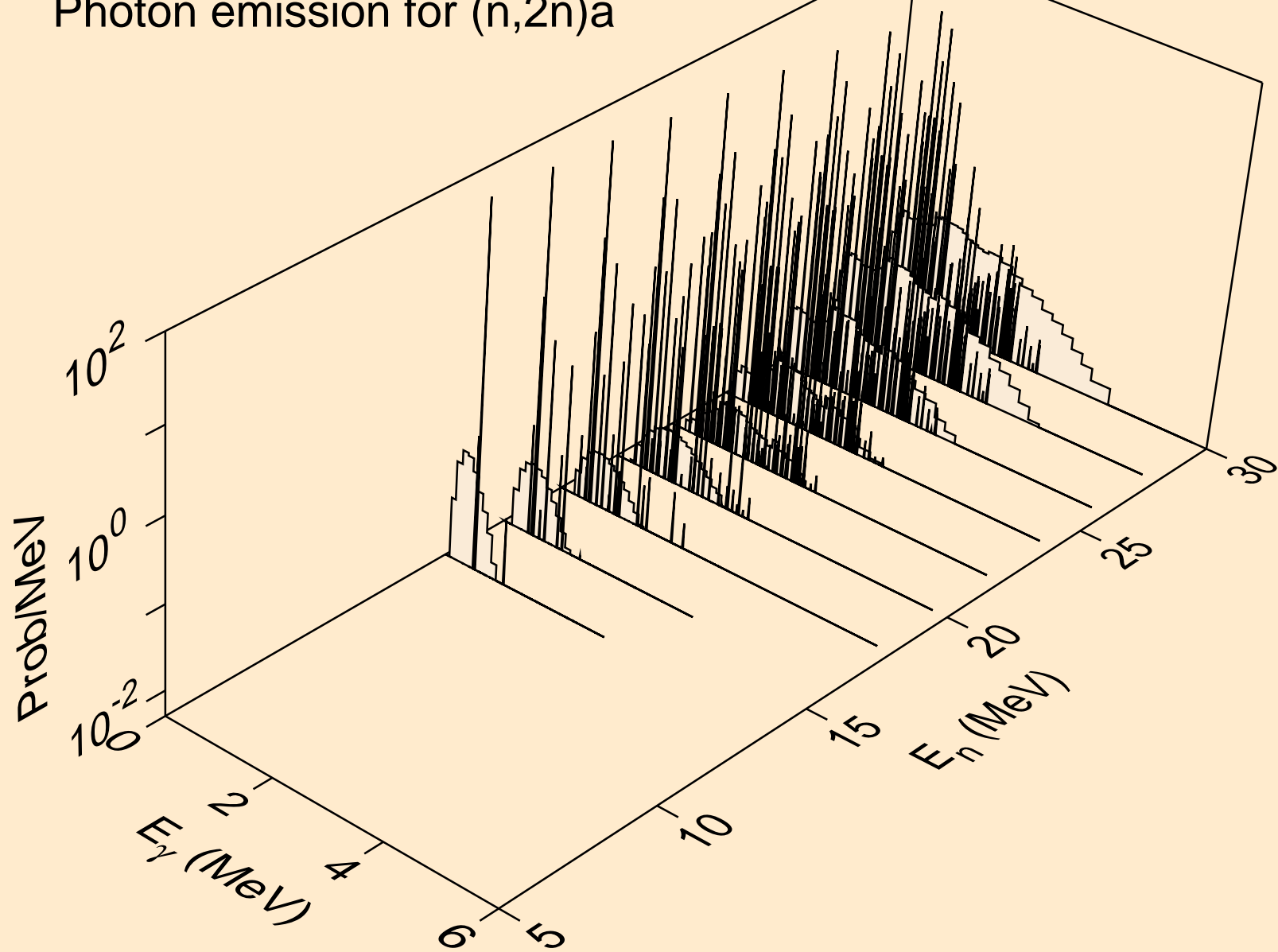
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Photon emission for (n,3n)



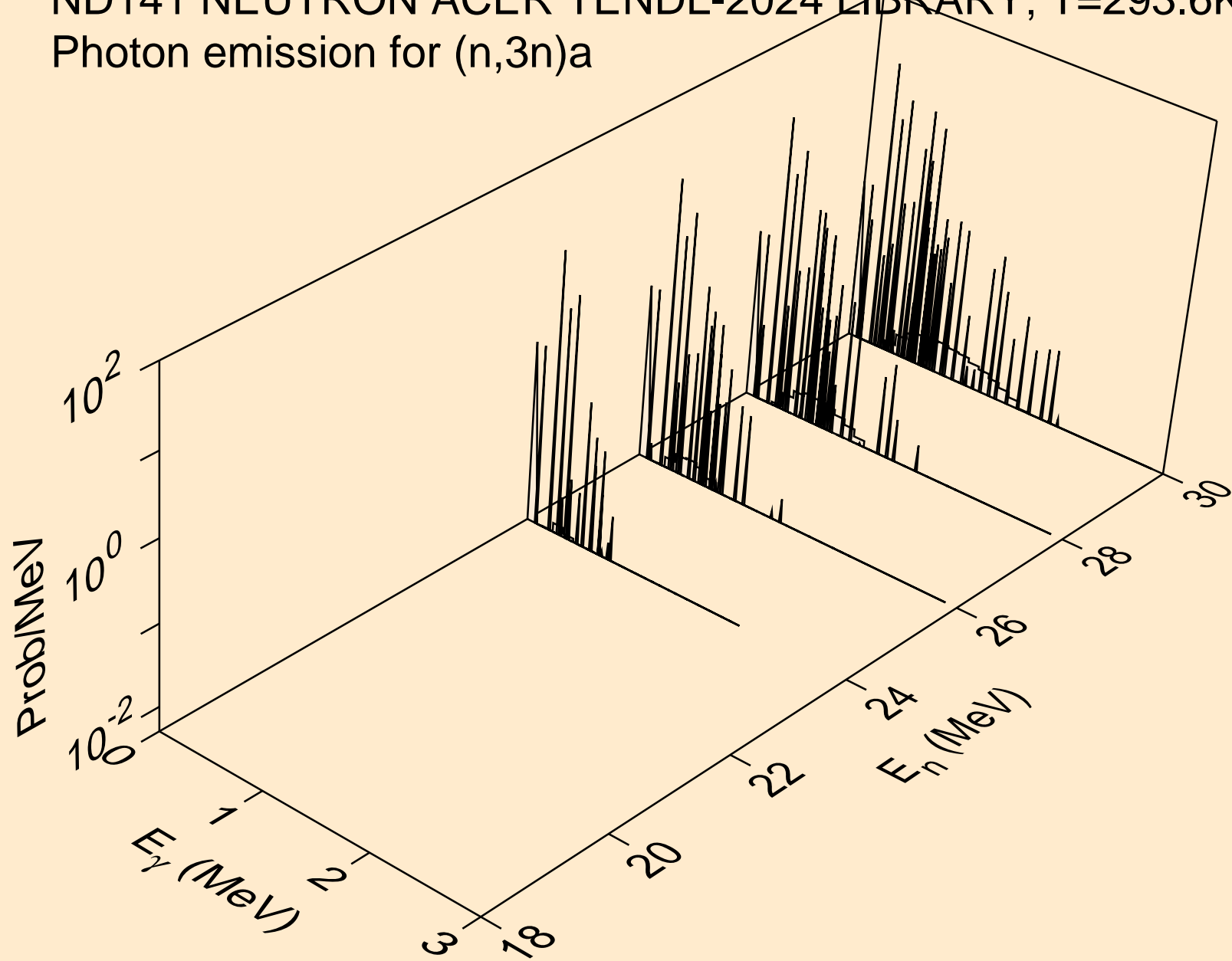
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Photon emission for (n,n\*)a



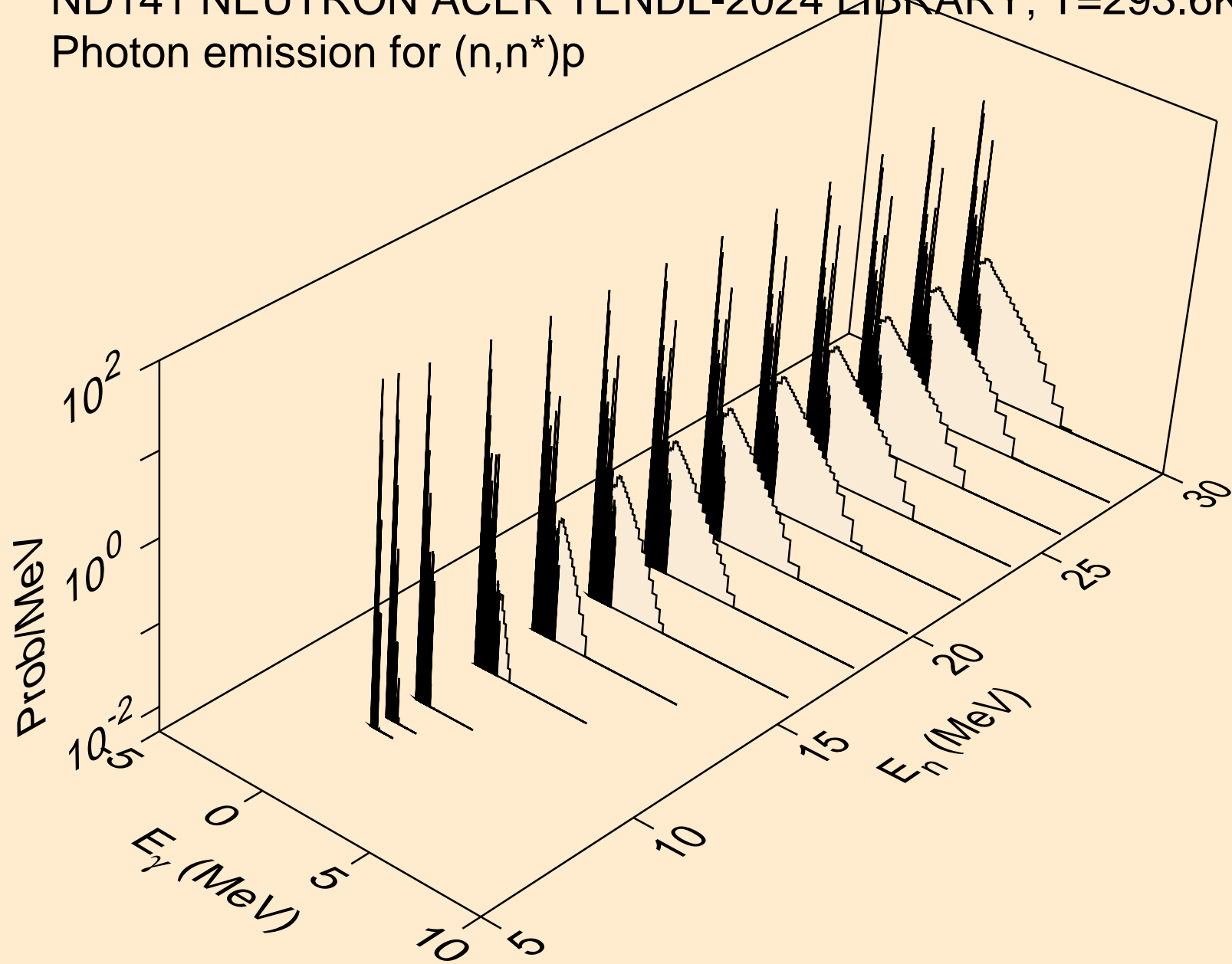
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Photon emission for (n,2n)a



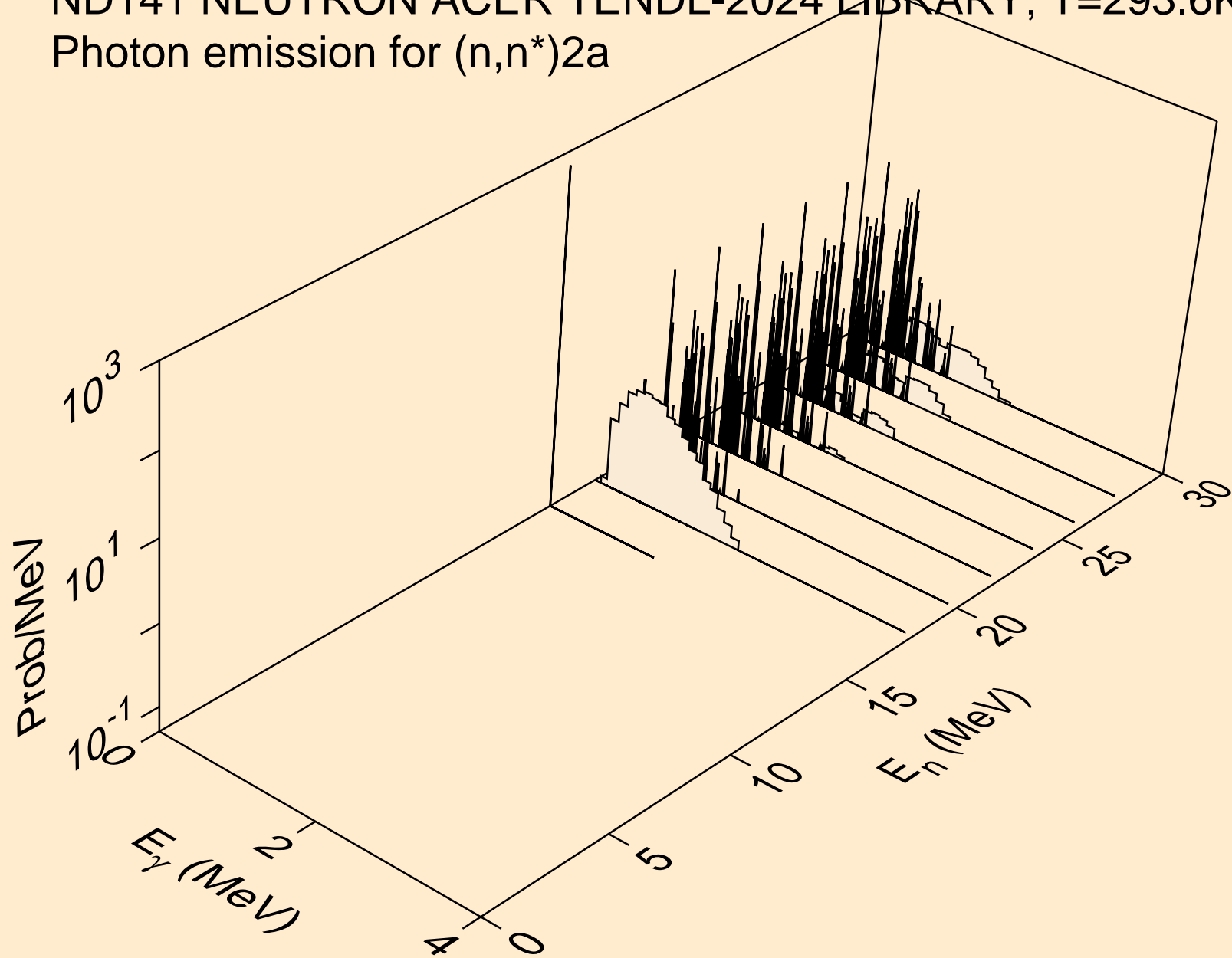
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Photon emission for (n,3n)a



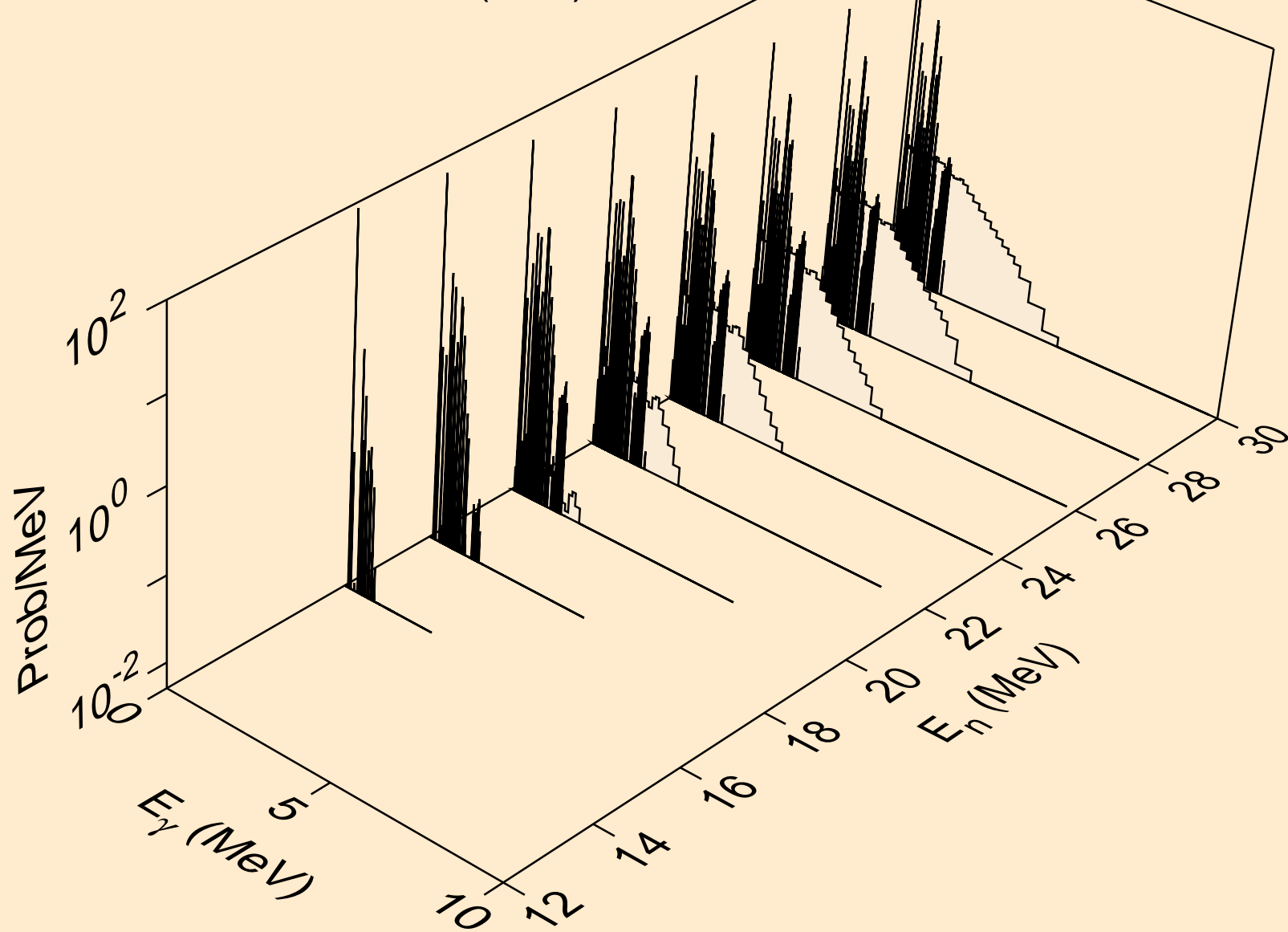
ND141 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Photon emission for (n,n\*)p



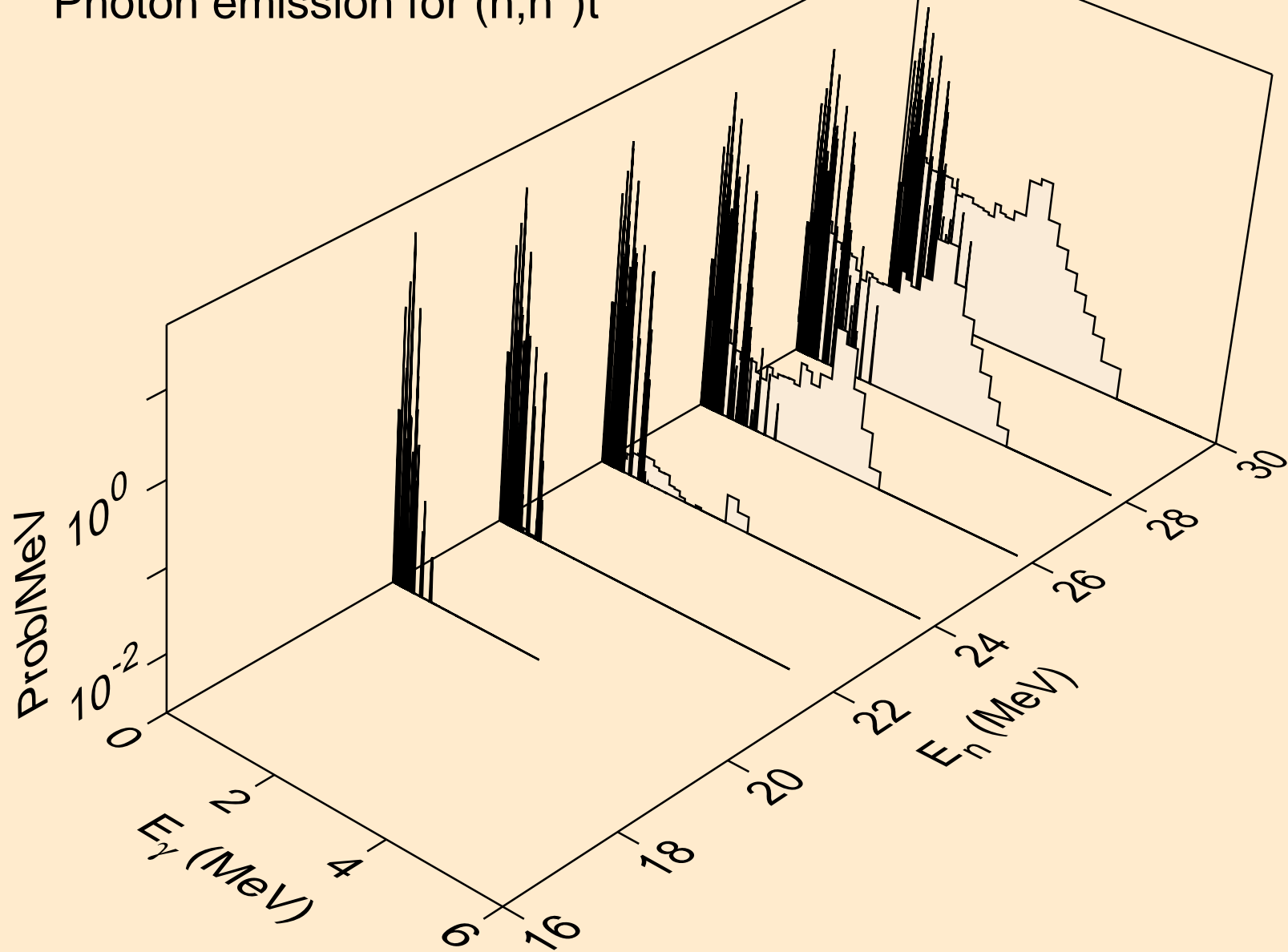
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Photon emission for (n,n\*)2a



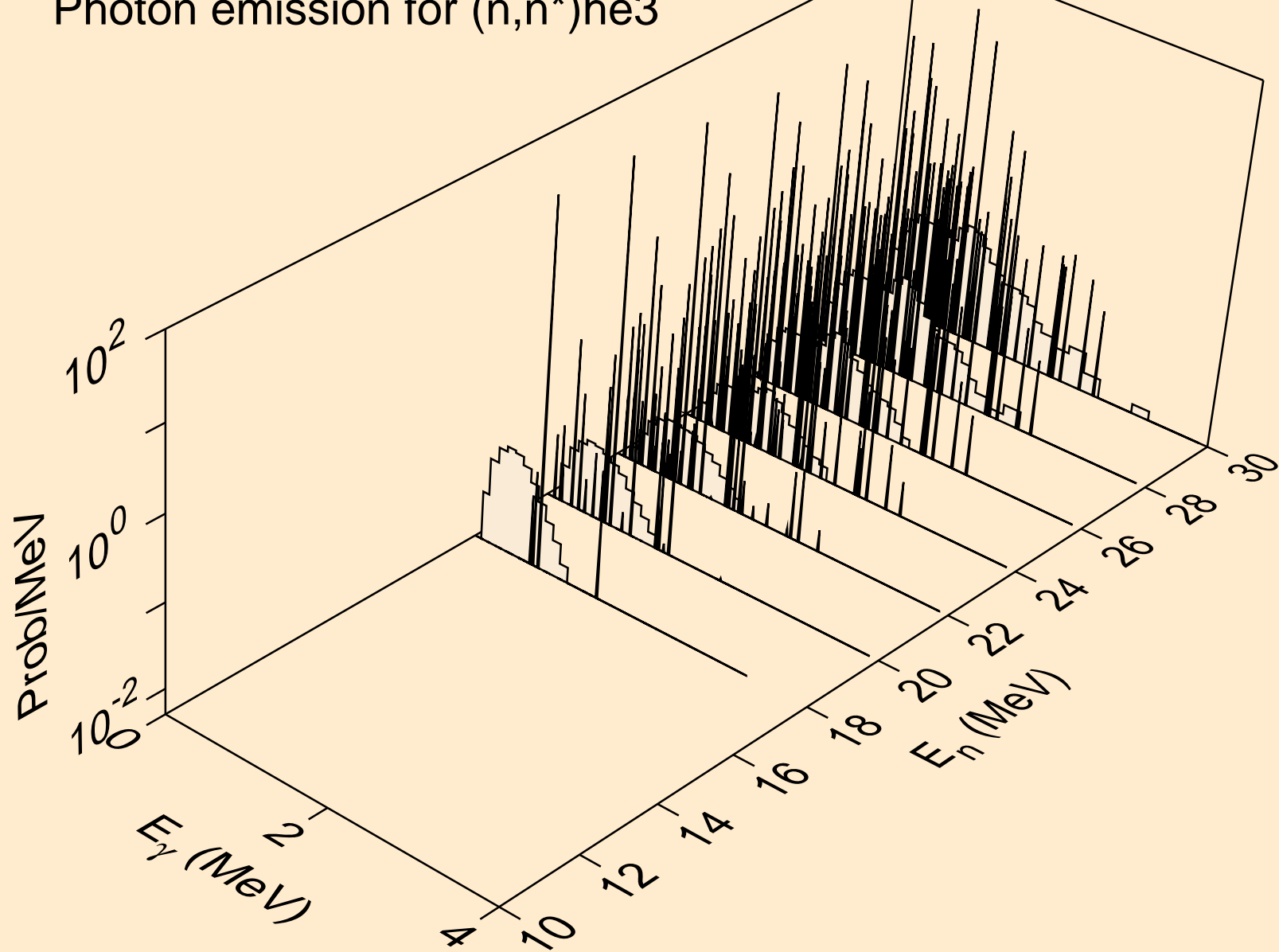
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Photon emission for (n,n\*)d



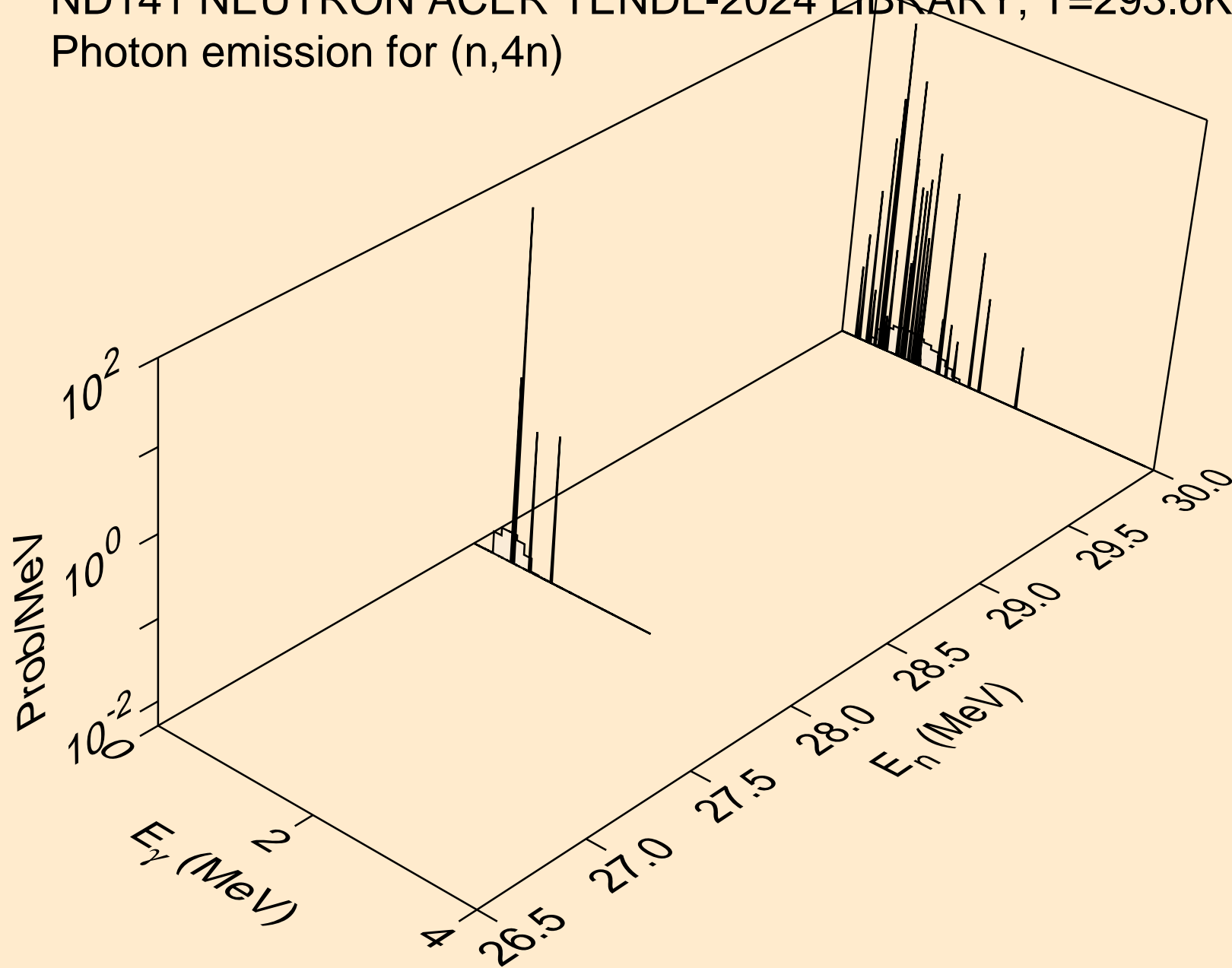
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Photon emission for (n,n\*)t



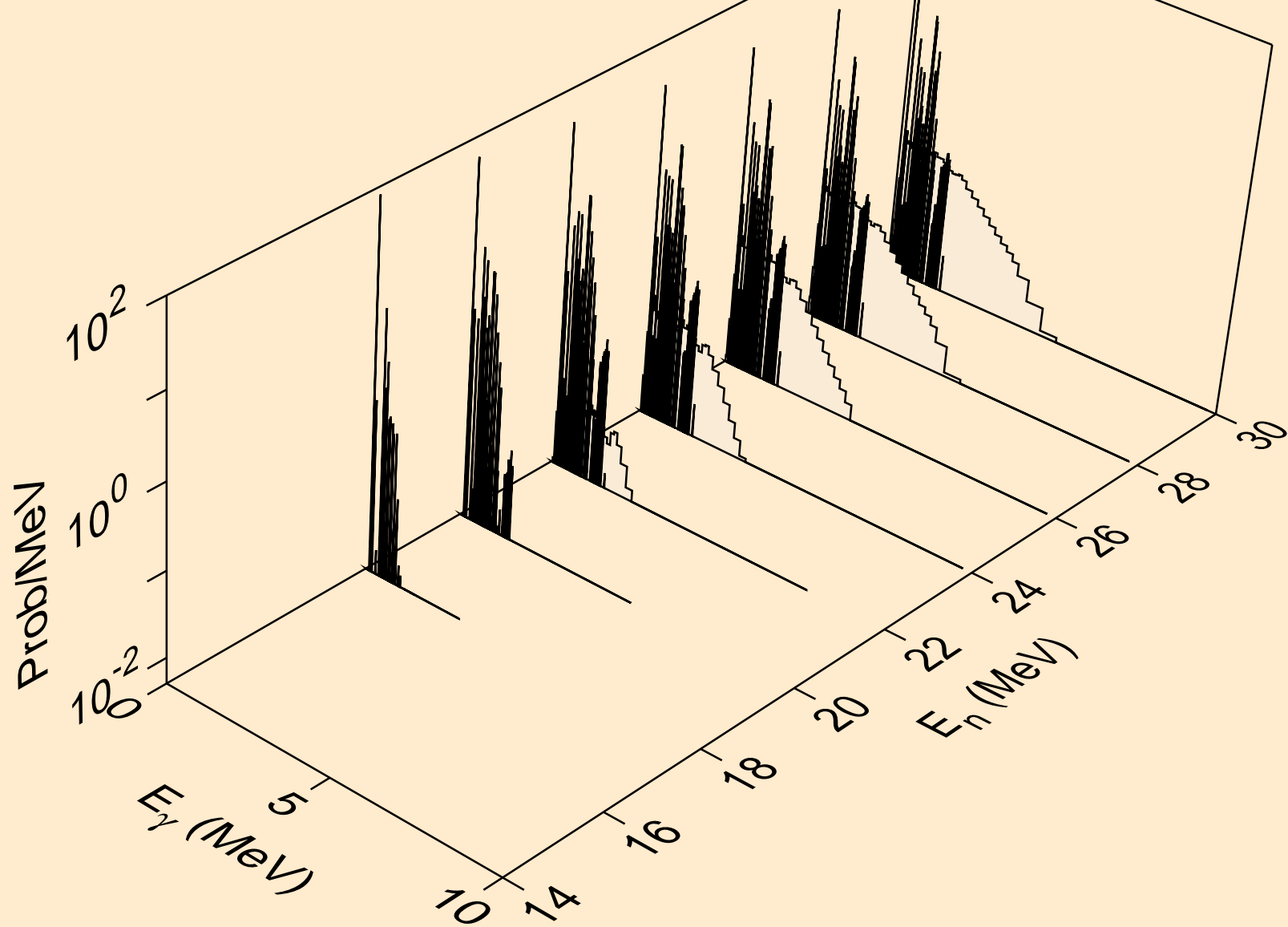
ND141 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Photon emission for (n,n\*)he3



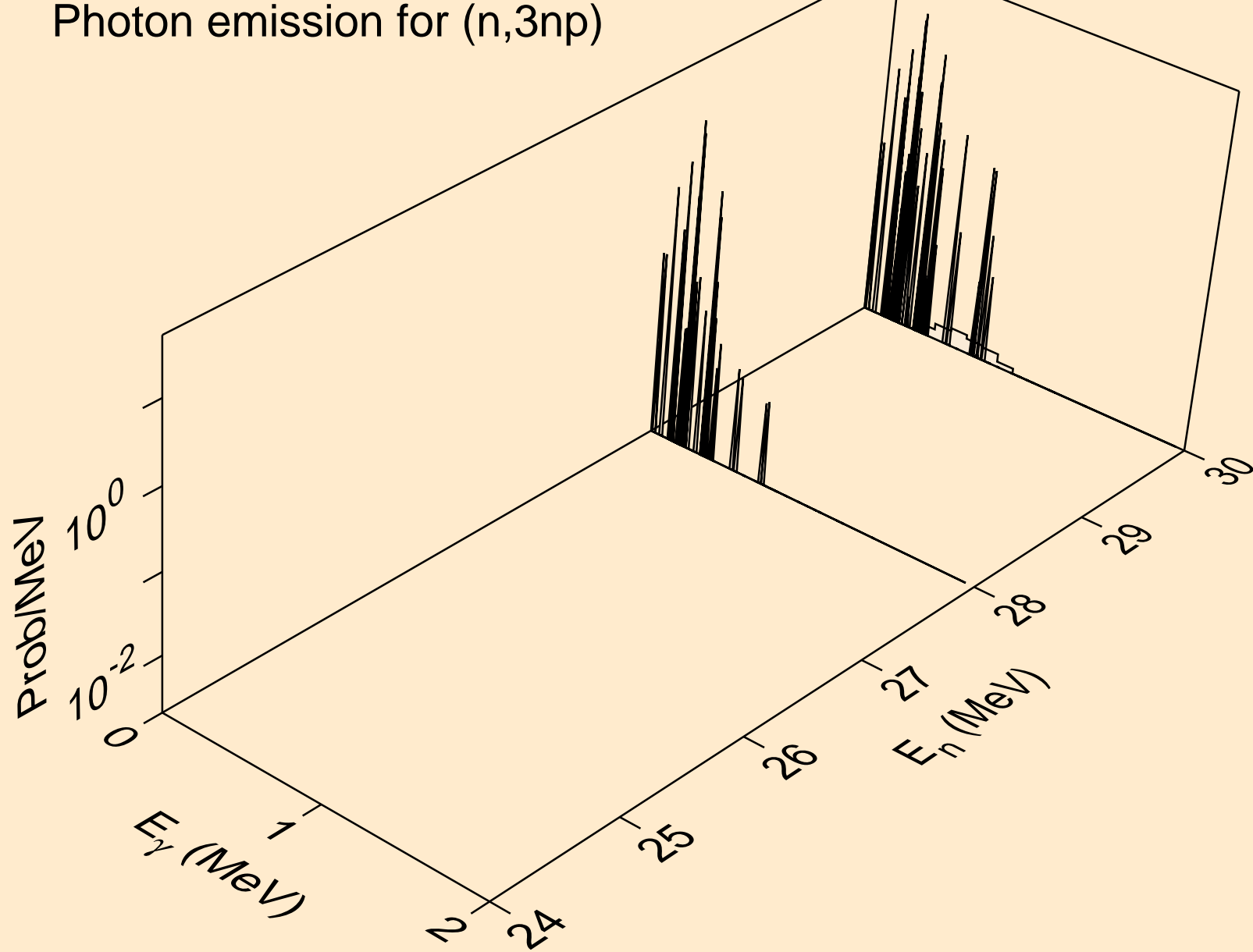
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Photon emission for (n,4n)



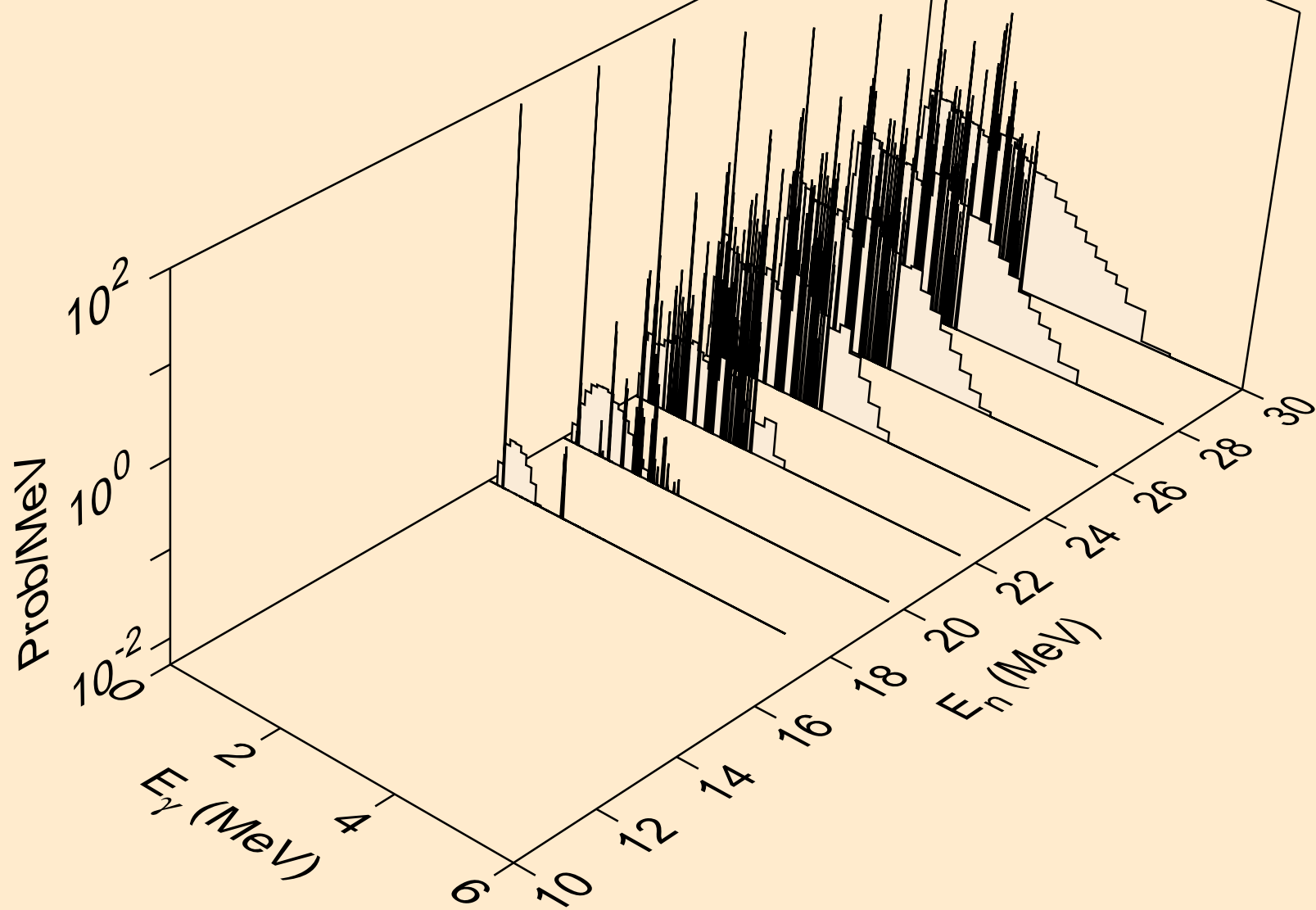
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Photon emission for (n,2np)



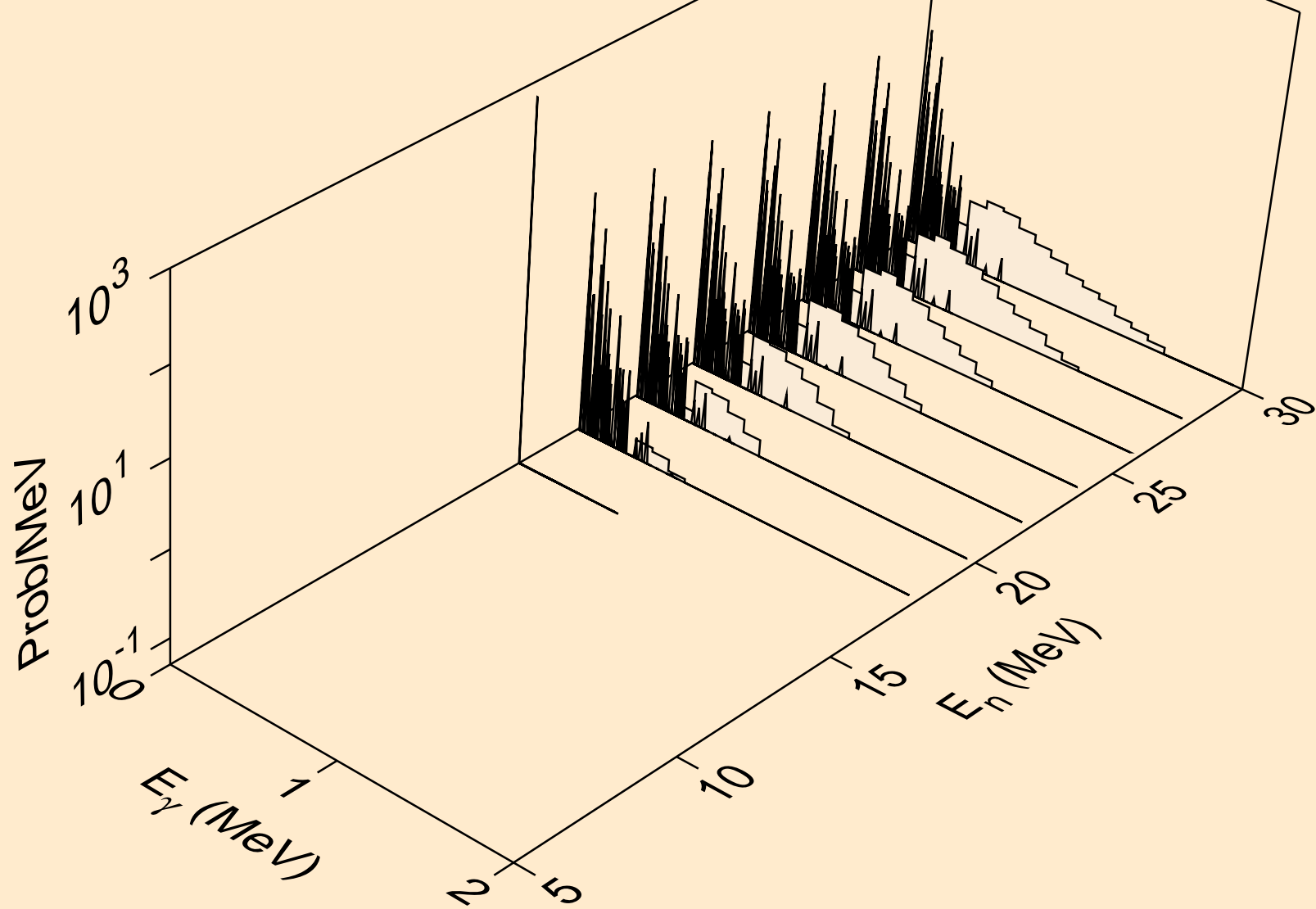
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Photon emission for (n,3np)



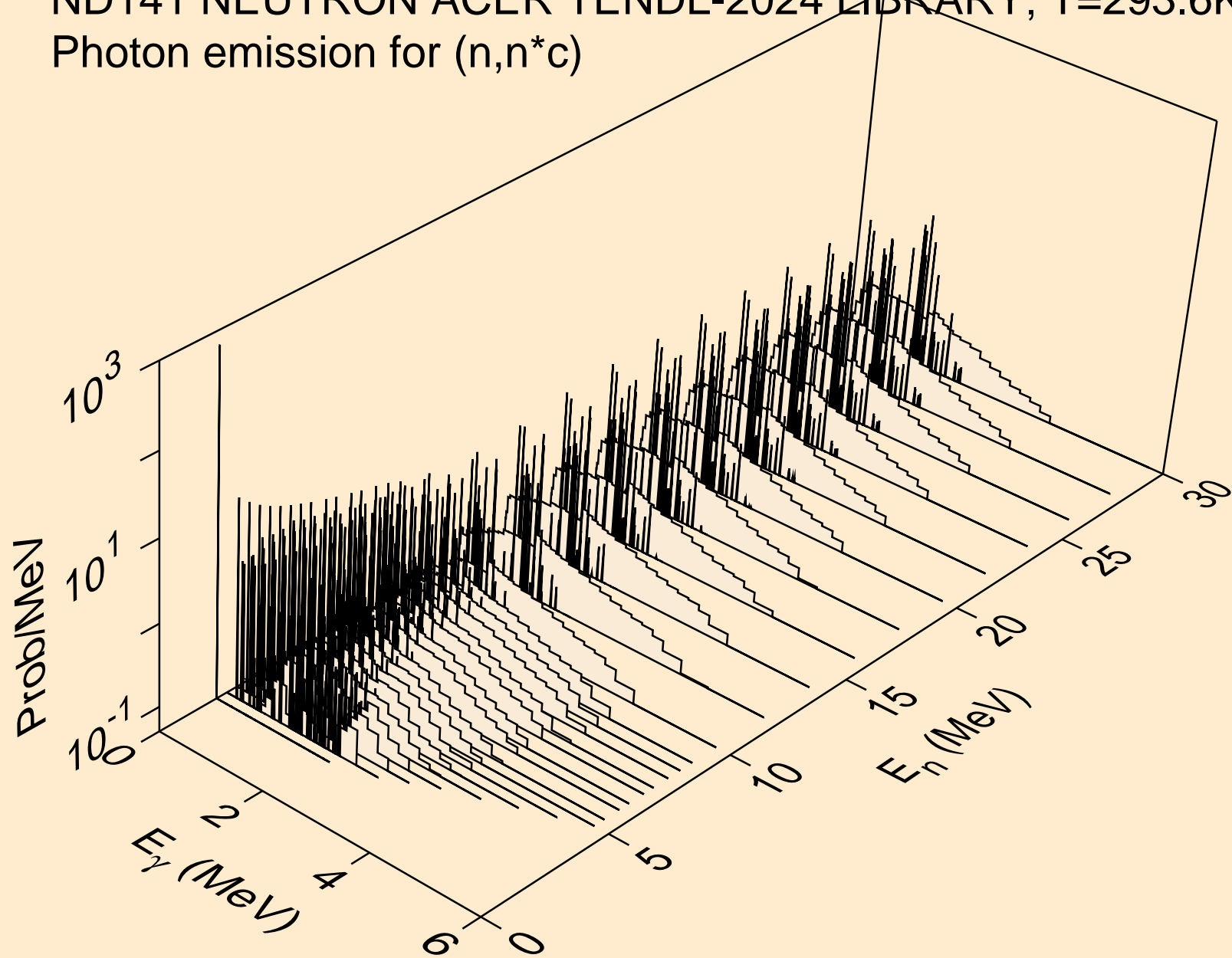
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Photon emission for (n,n2p)



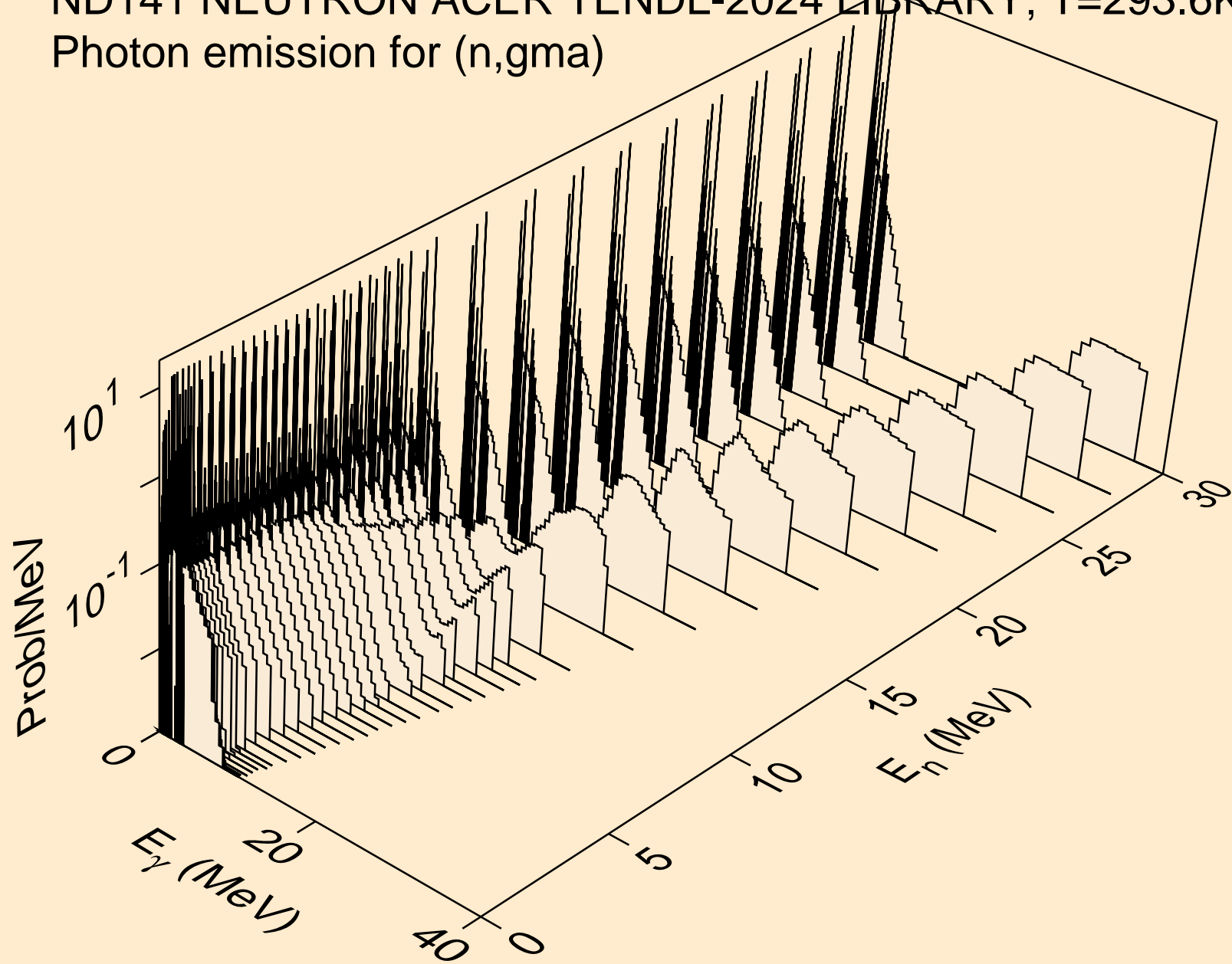
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Photon emission for (n,npa)



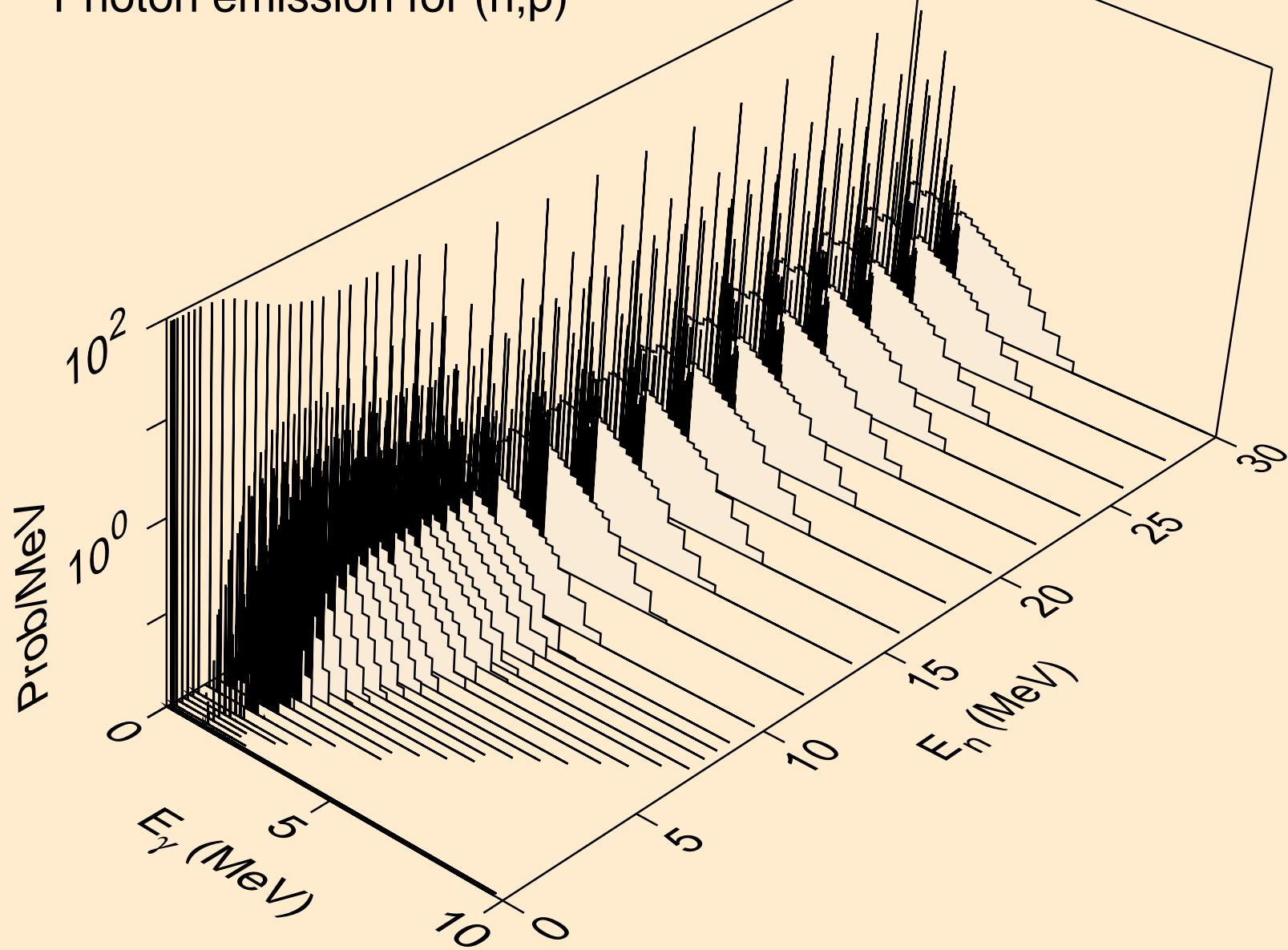
ND141 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Photon emission for (n,n\*c)



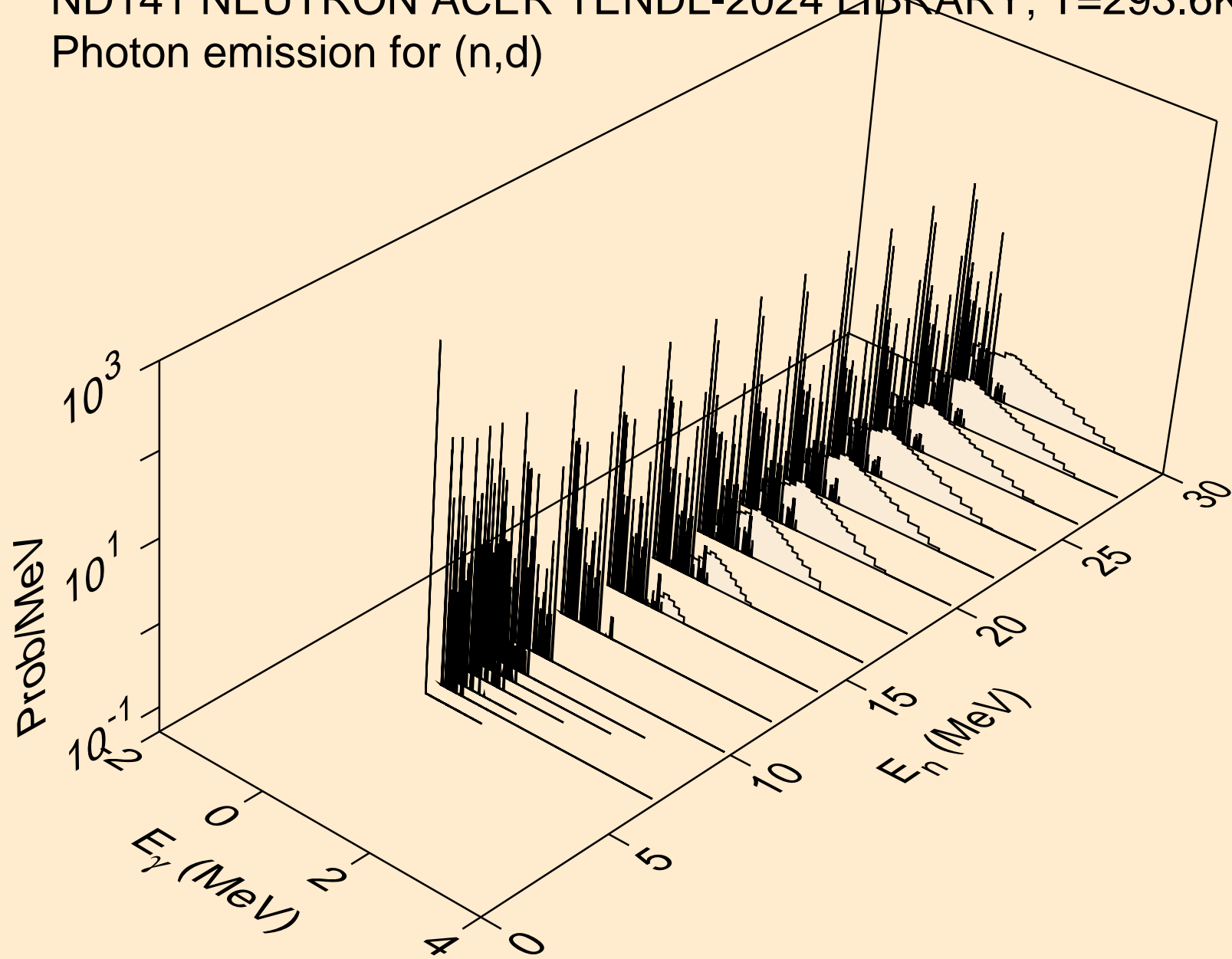
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Photon emission for (n,gma)



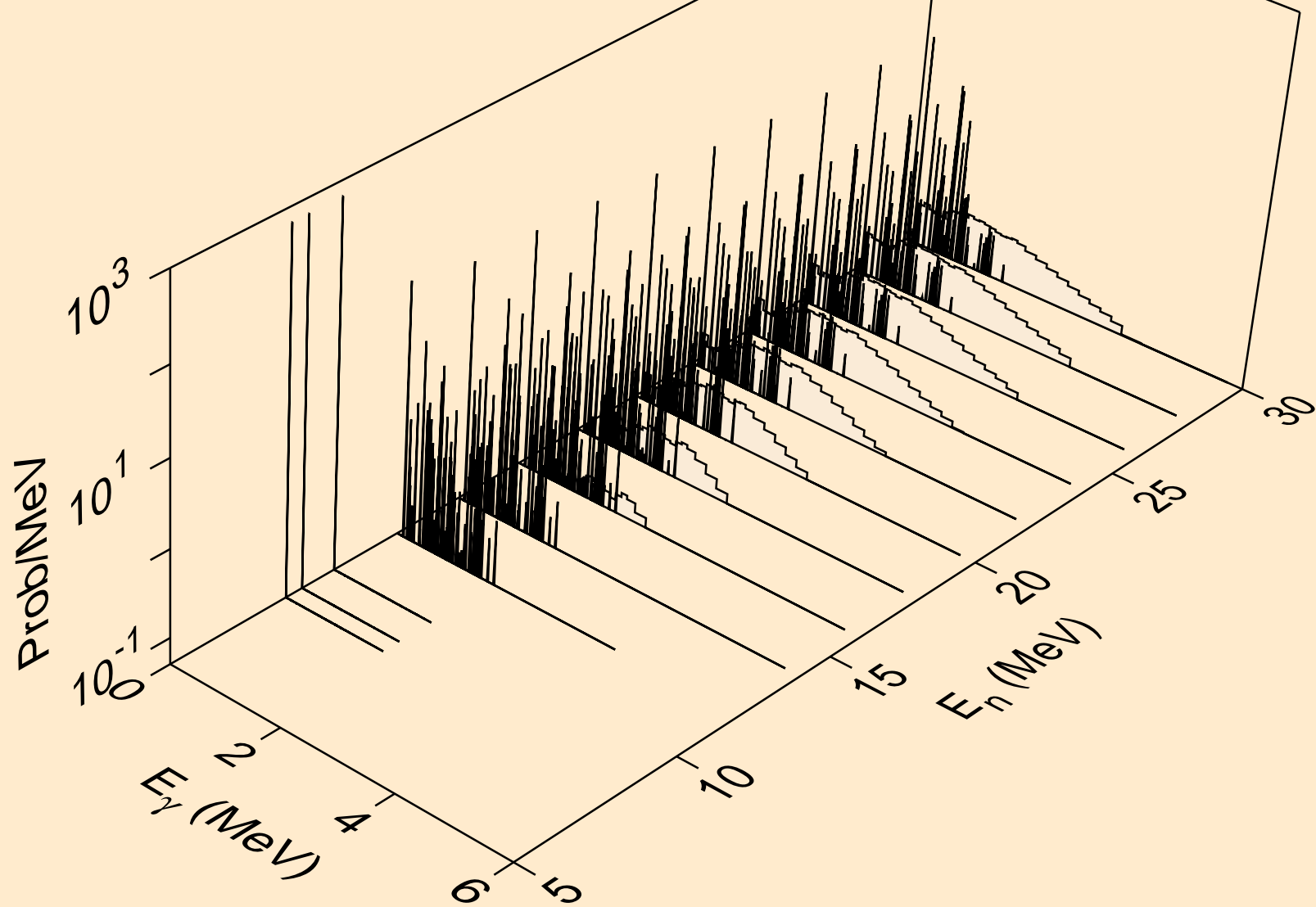
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Photon emission for (n,p)



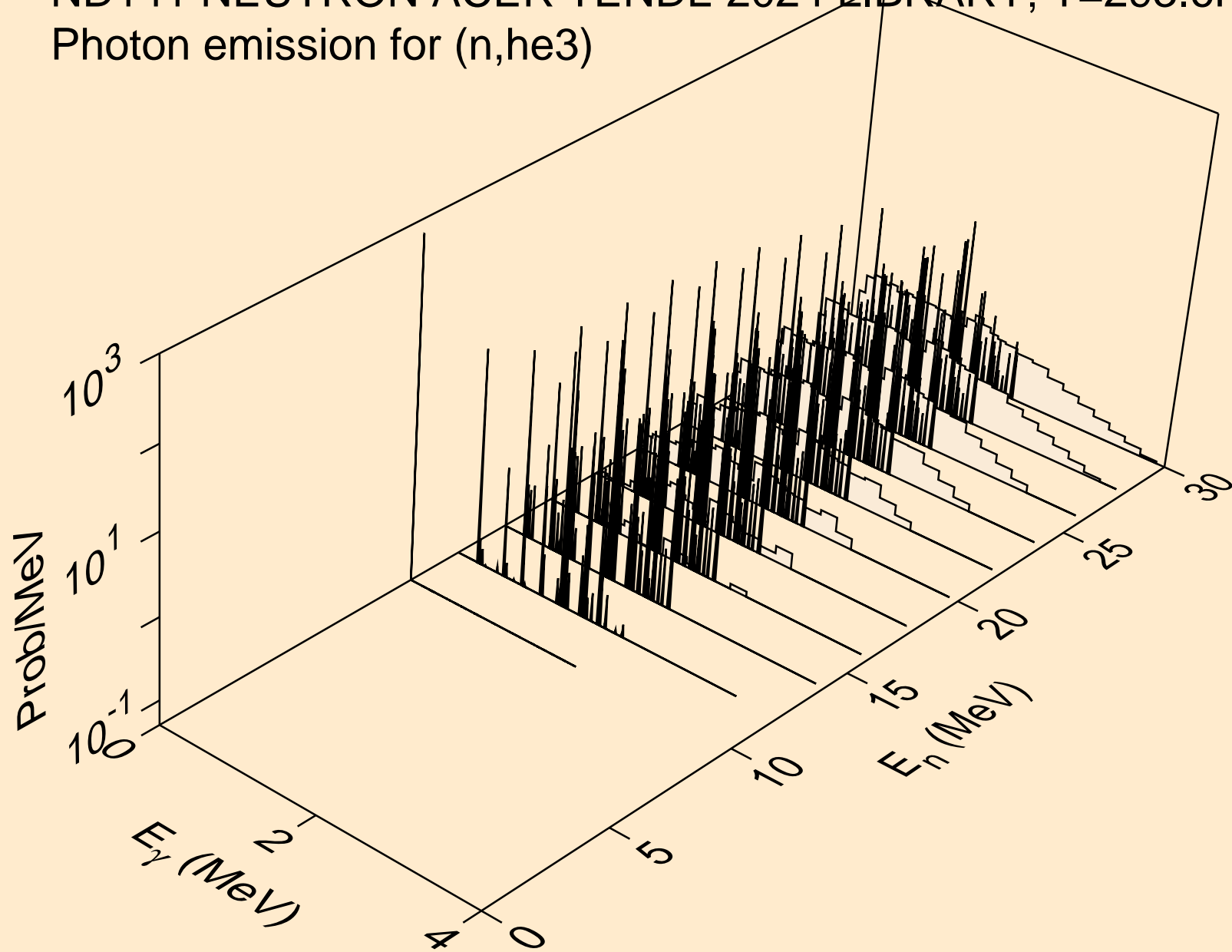
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Photon emission for (n,d)



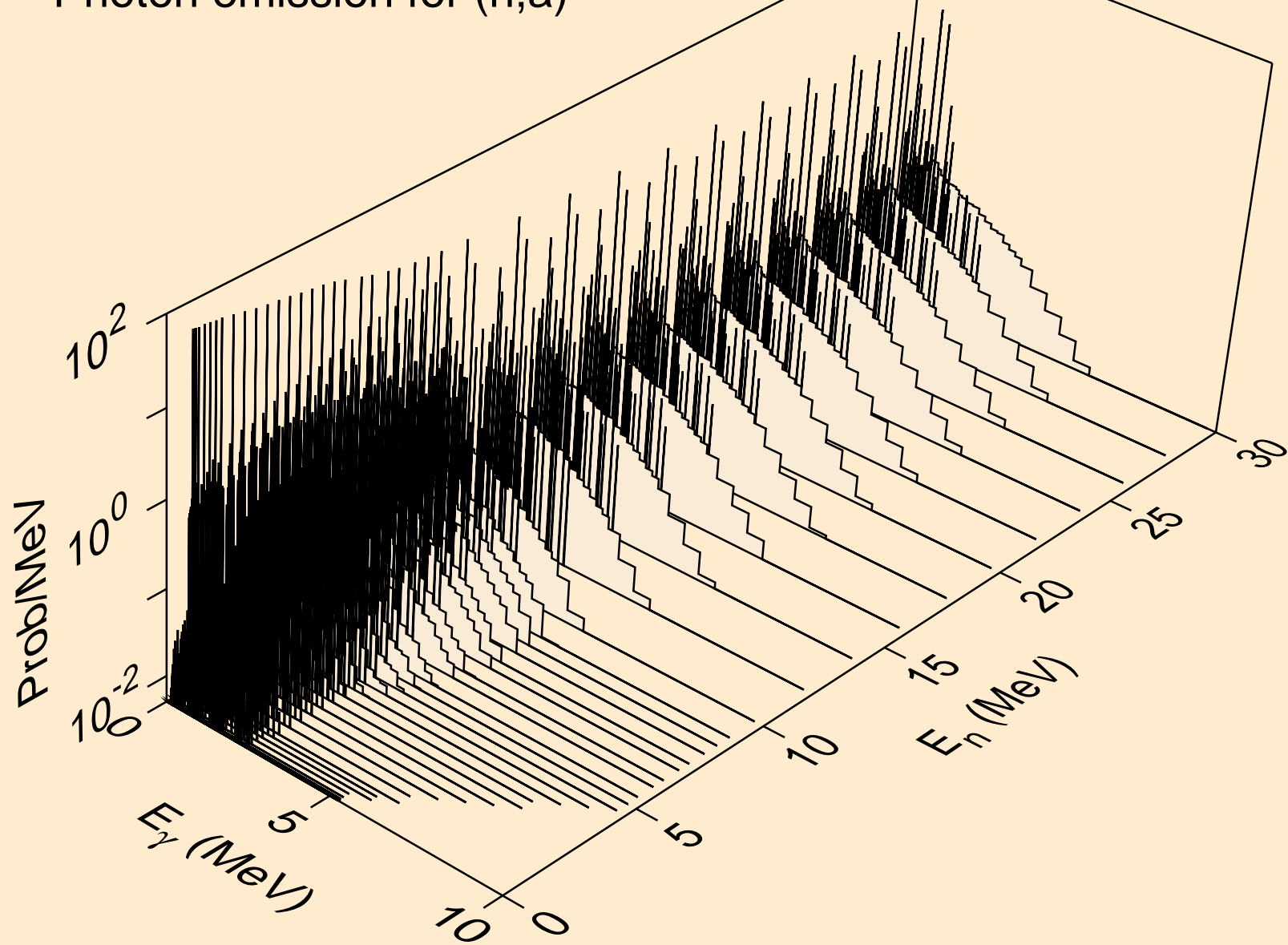
ND141 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Photon emission for (n,t)



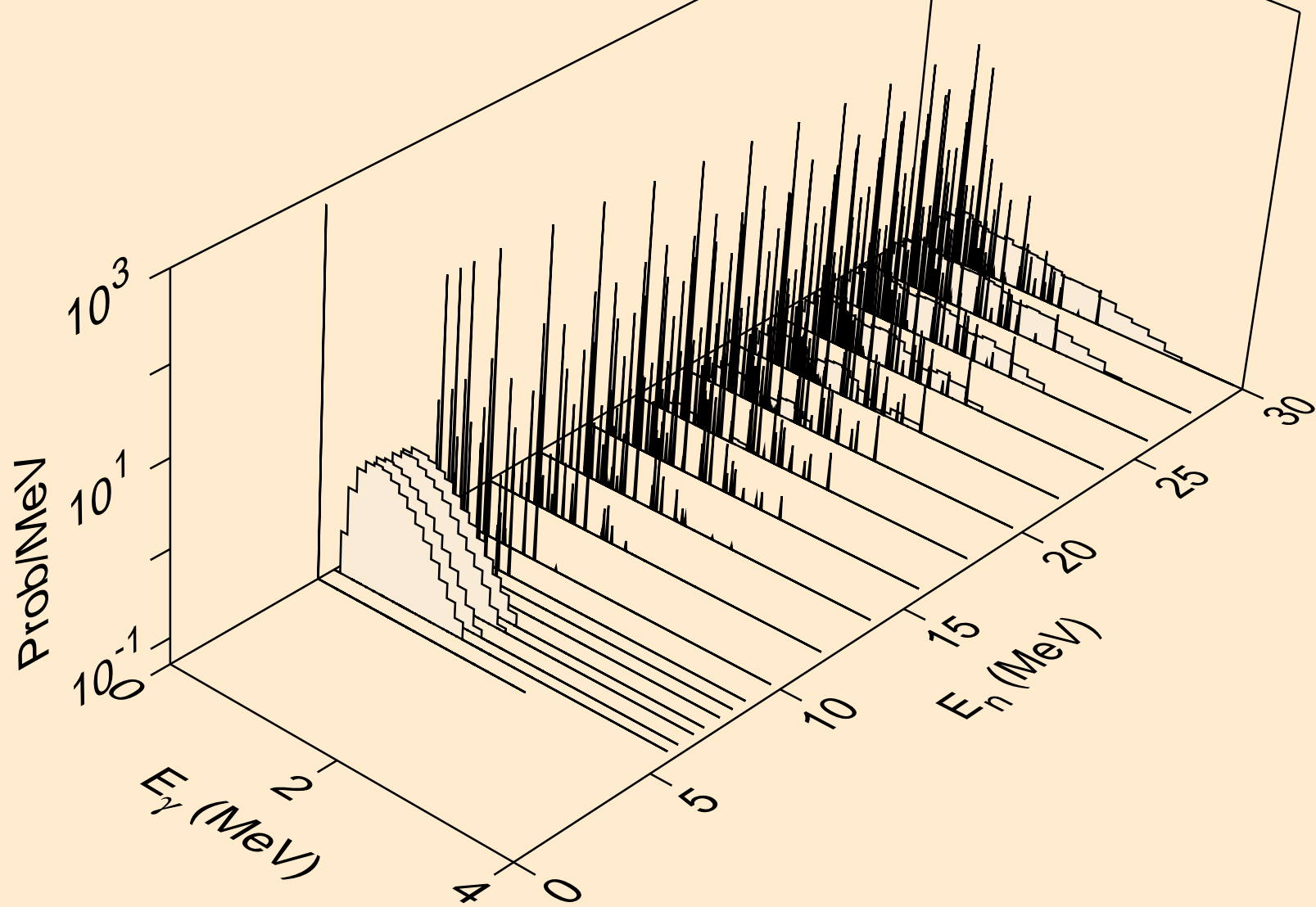
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Photon emission for (n,he3)



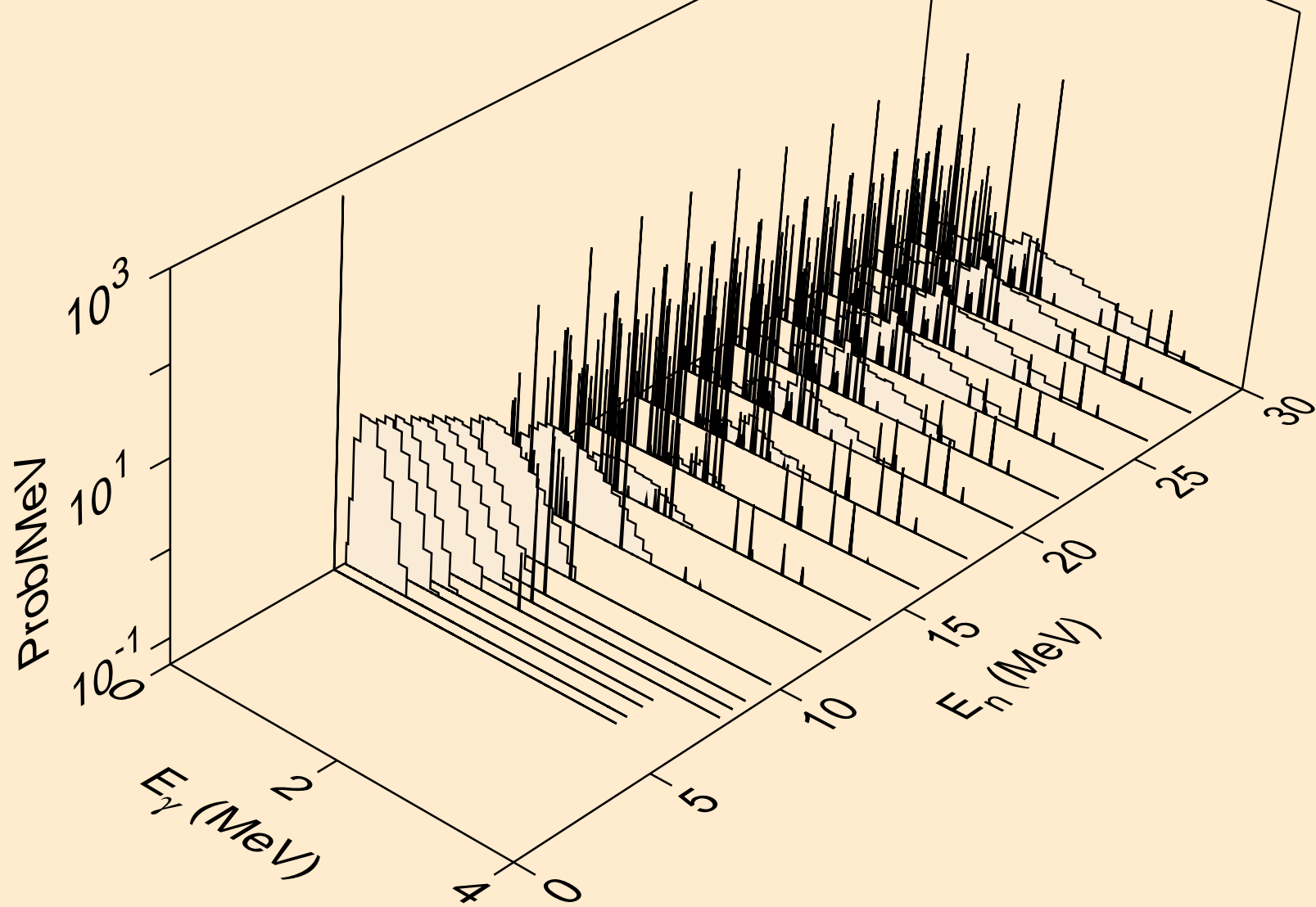
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Photon emission for (n,a)



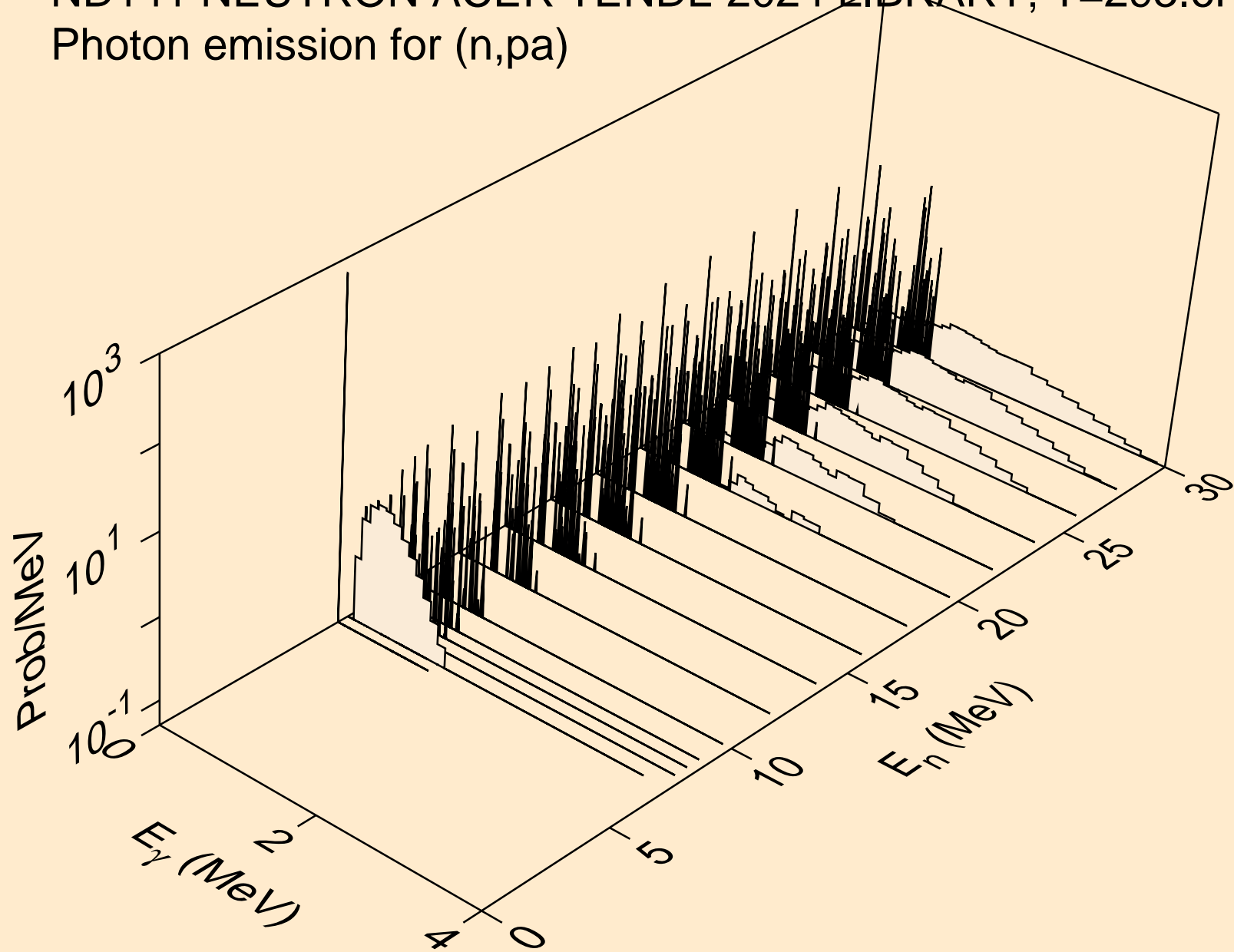
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Photon emission for (n,2a)



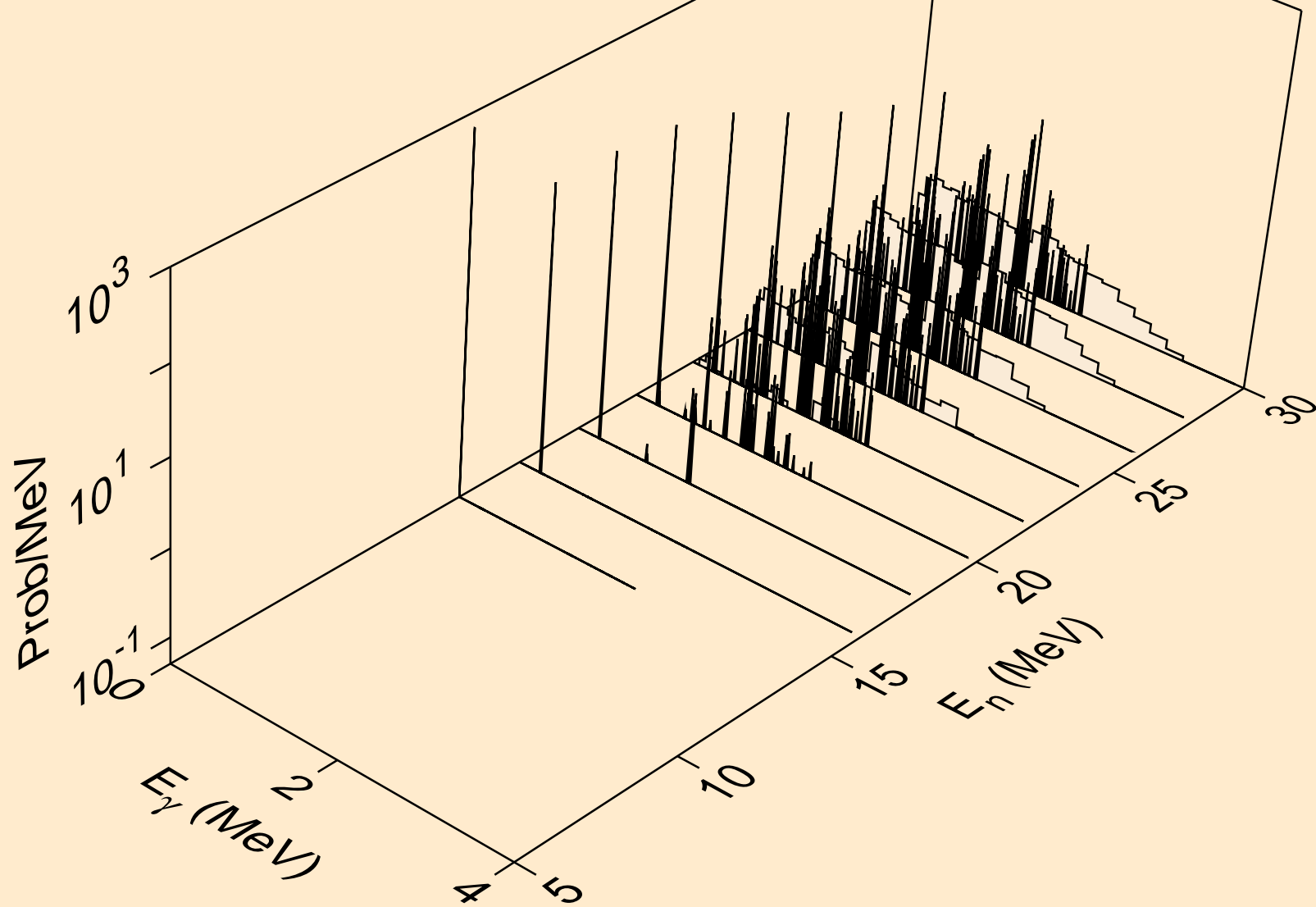
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Photon emission for (n,2p)



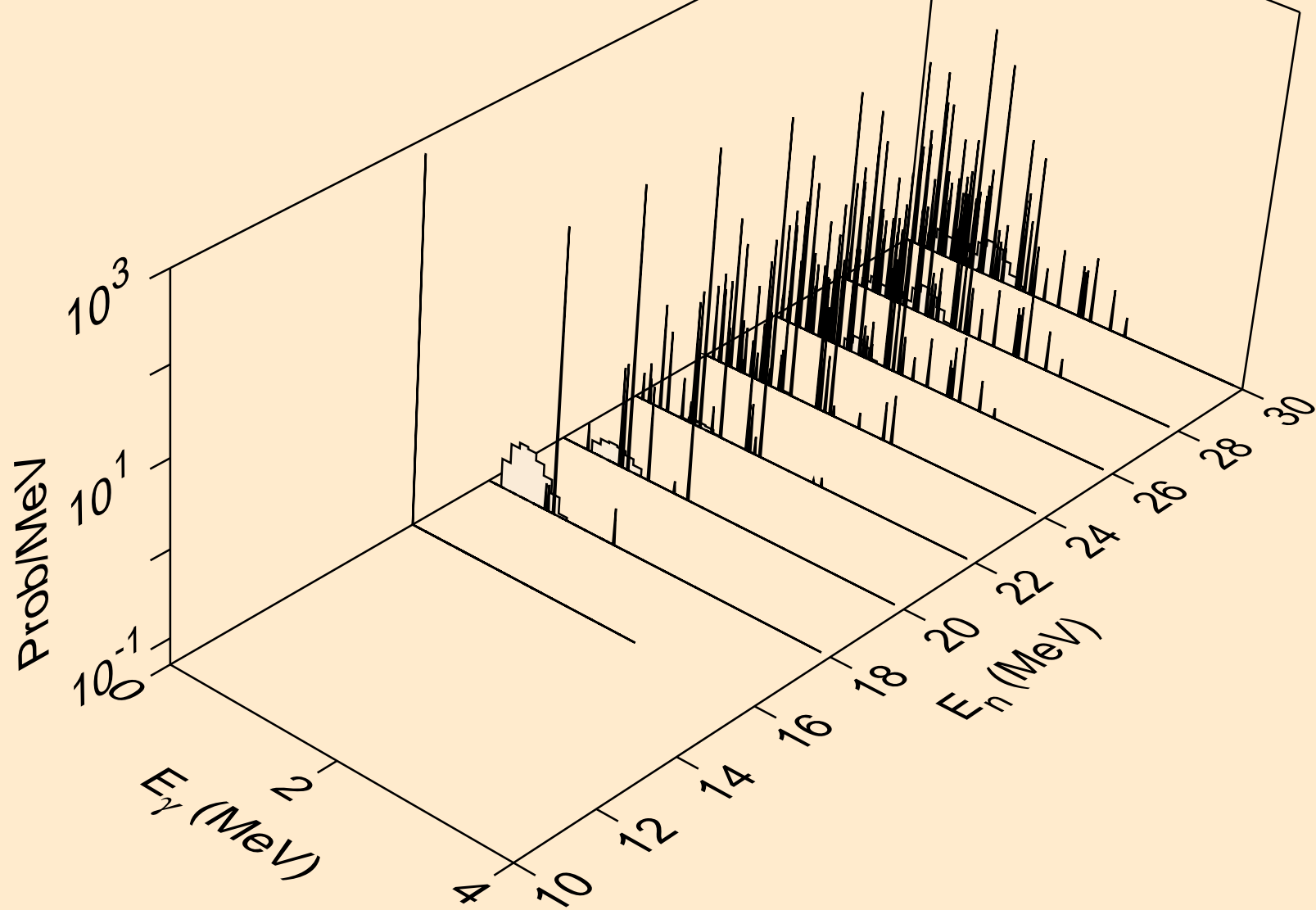
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Photon emission for (n,p $\alpha$ )



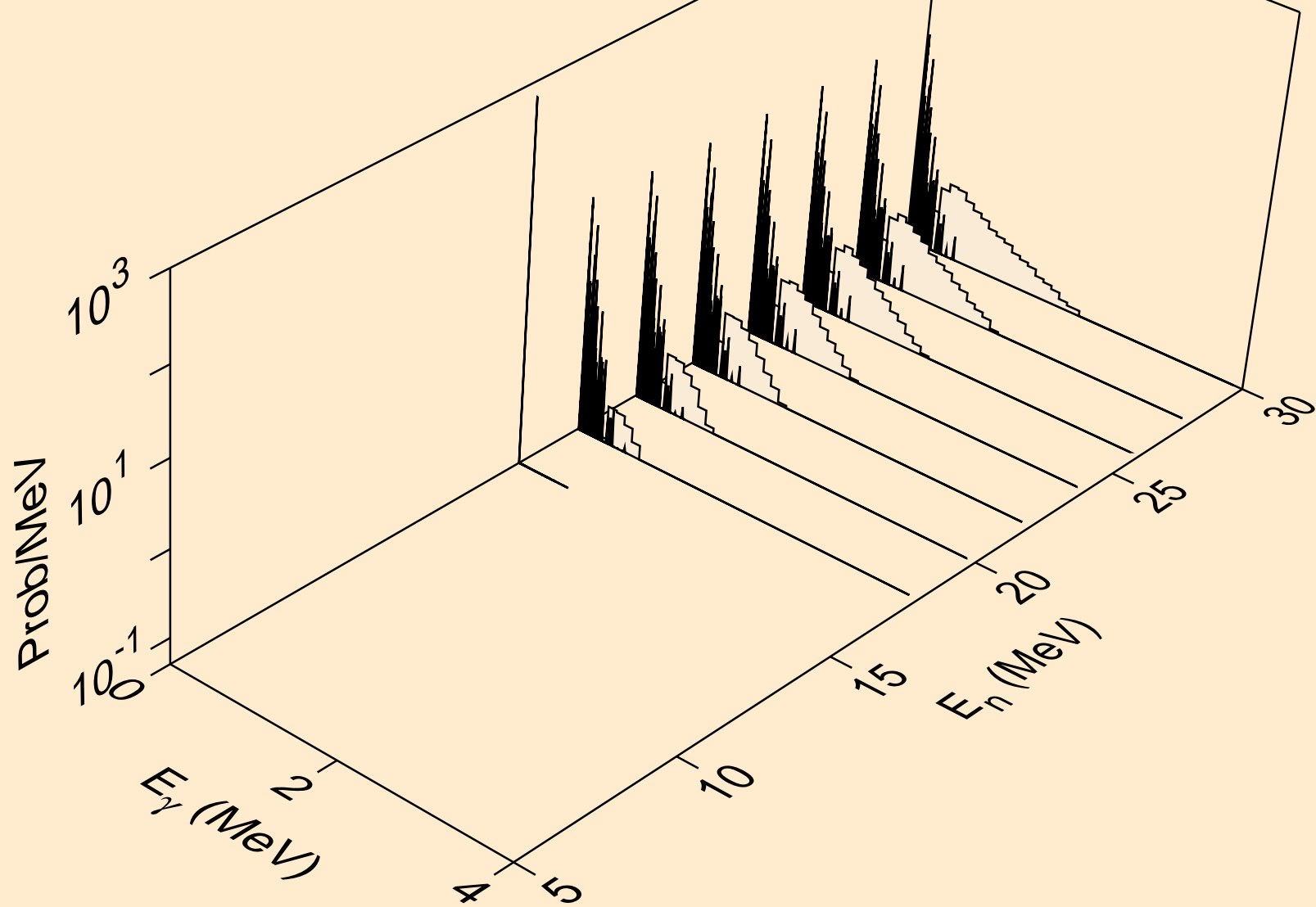
ND141 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Photon emission for (n,pd)



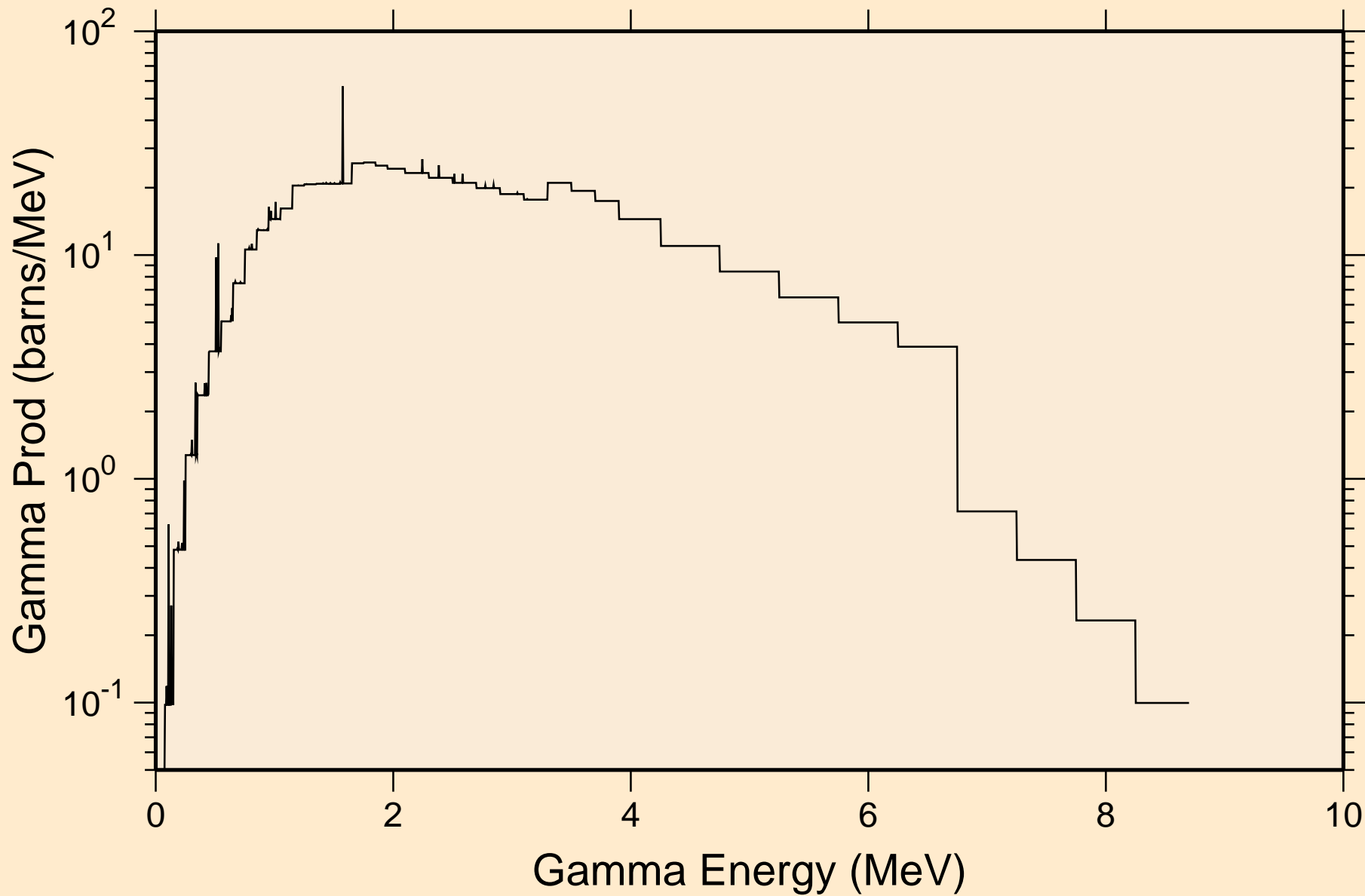
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Photon emission for (n,pt)



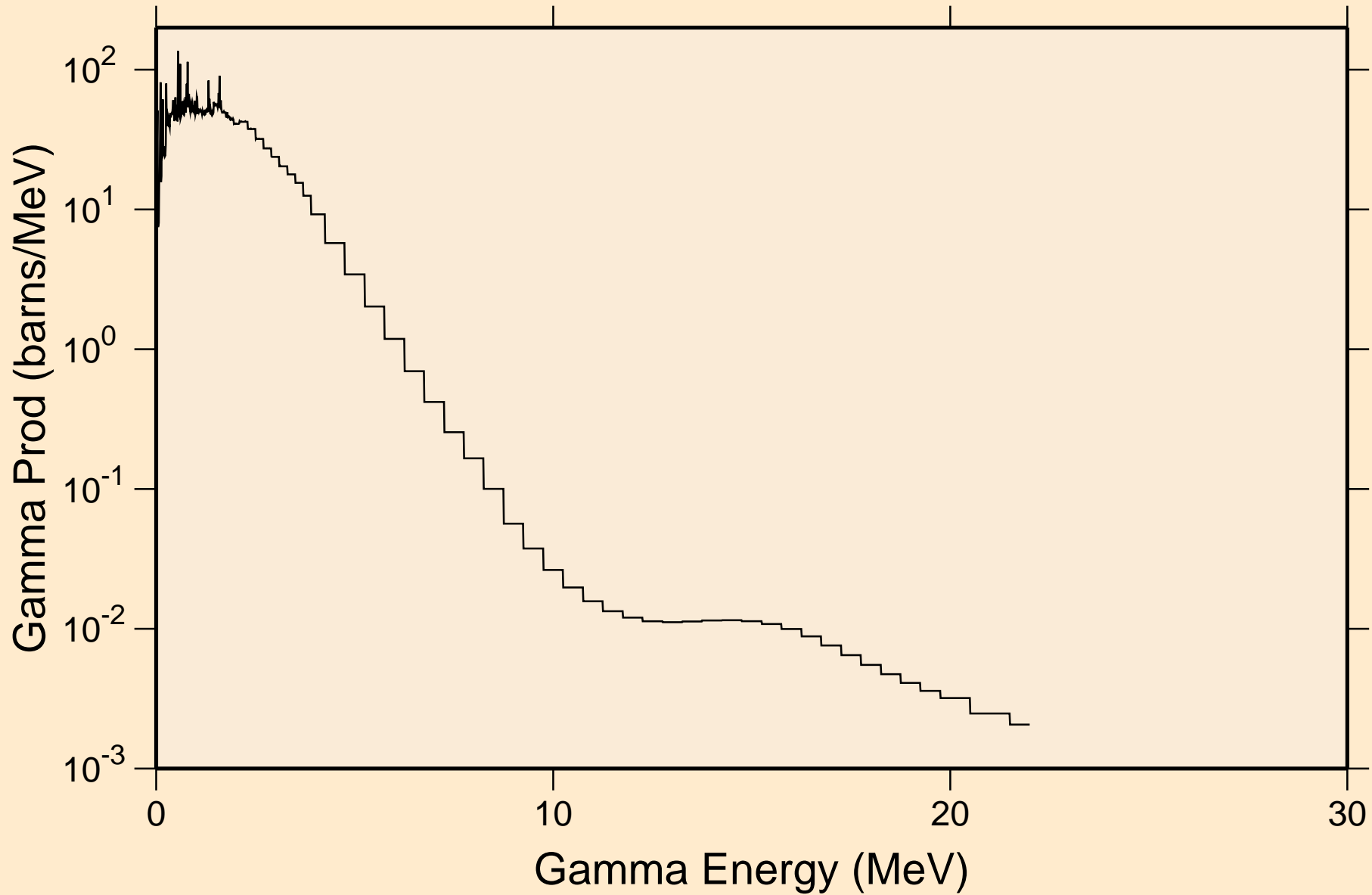
ND141 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Photon emission for (n,da)



ND141 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
thermal capture photon spectrum

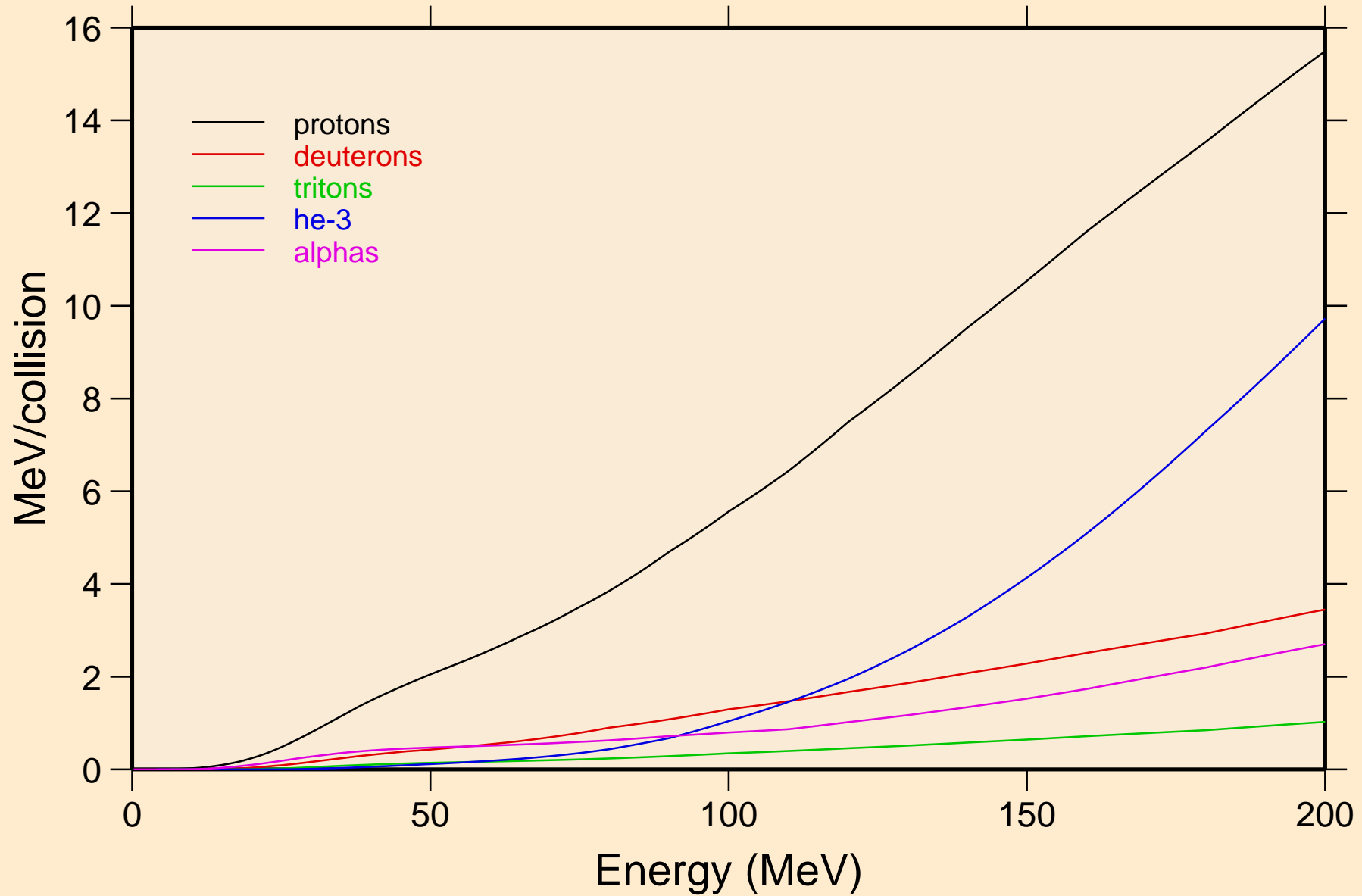


ND141 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
14 MeV photon spectrum



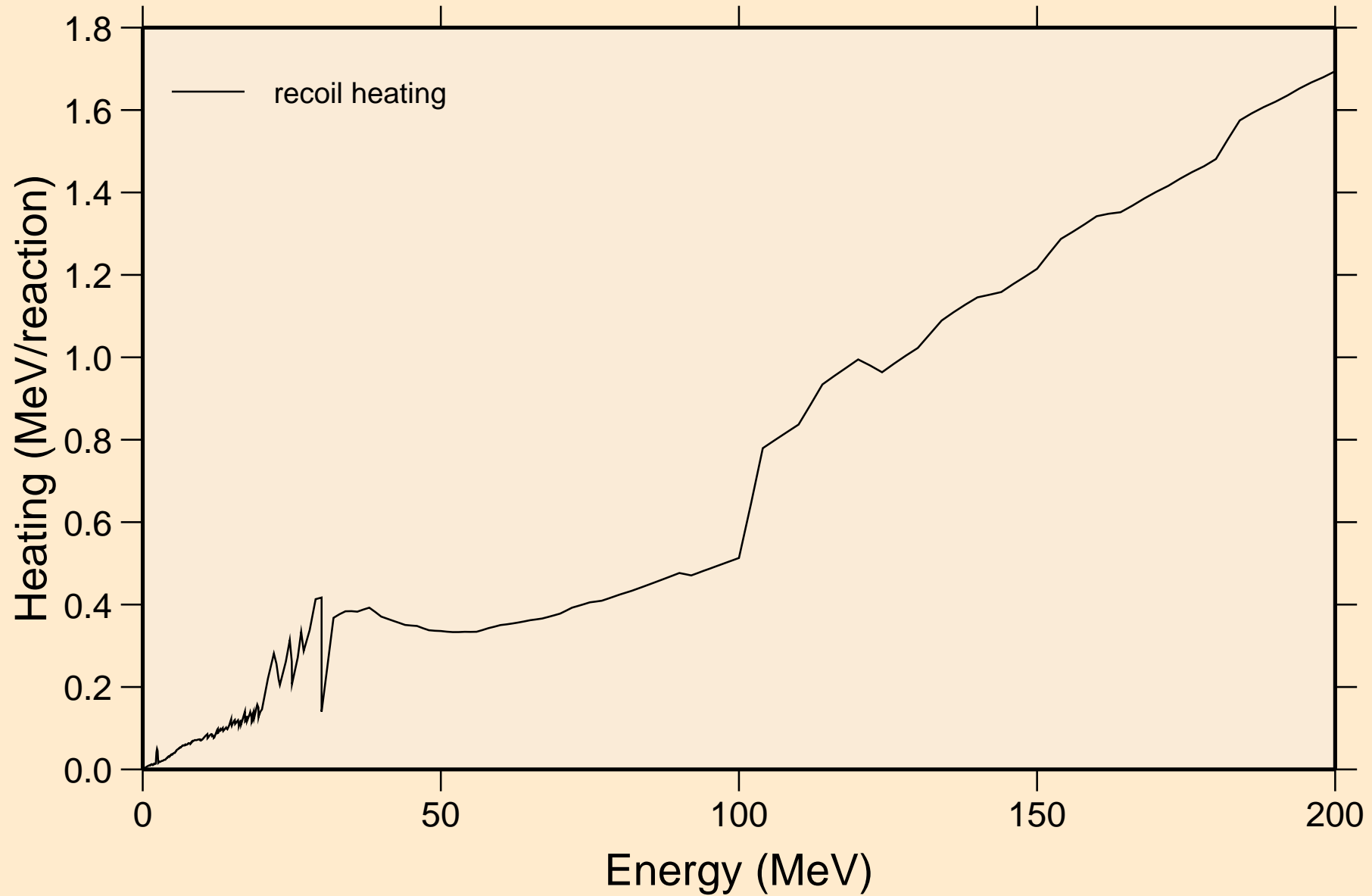
# ND141 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K

## Particle heating contributions

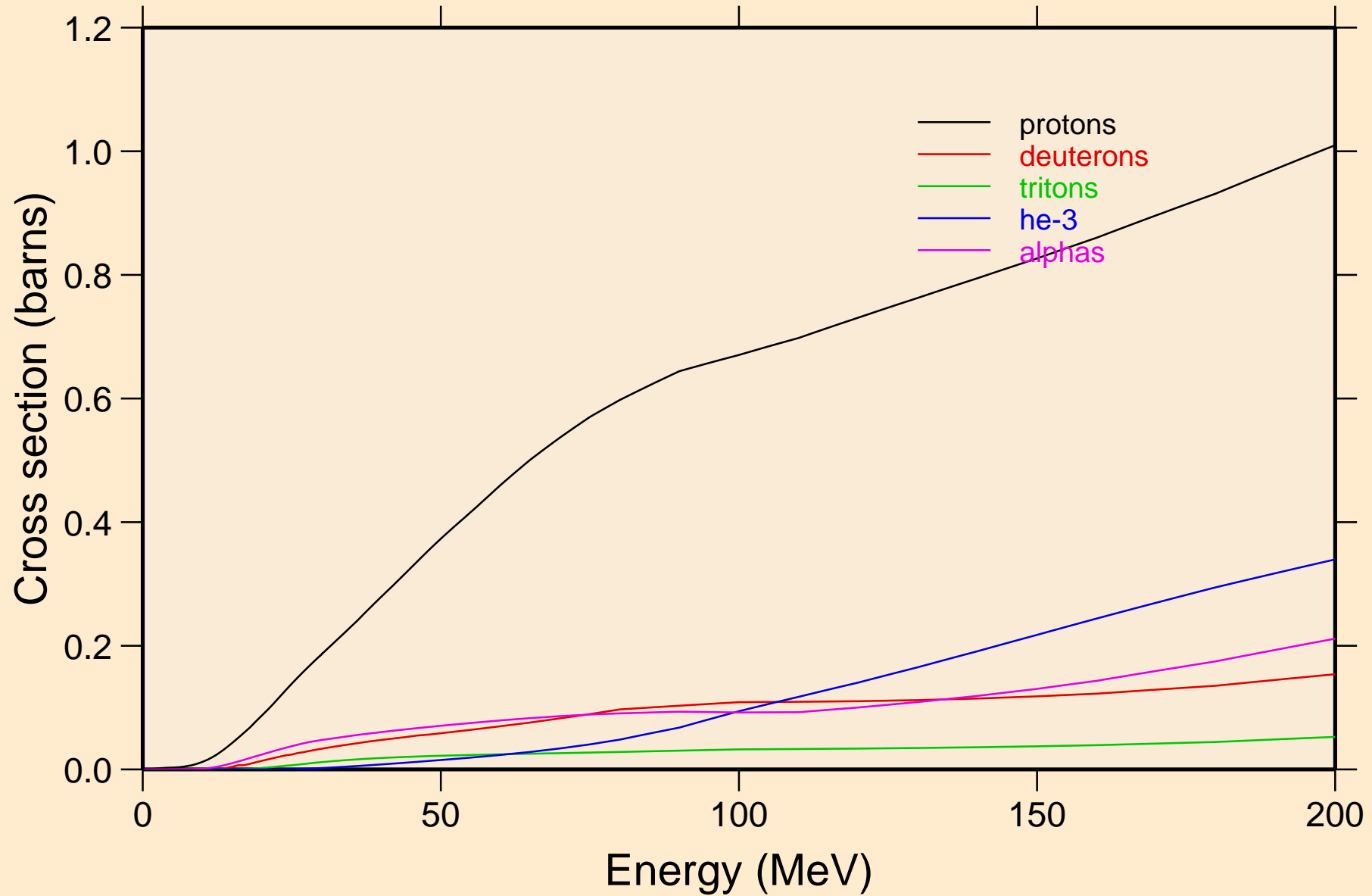


# ND141 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K

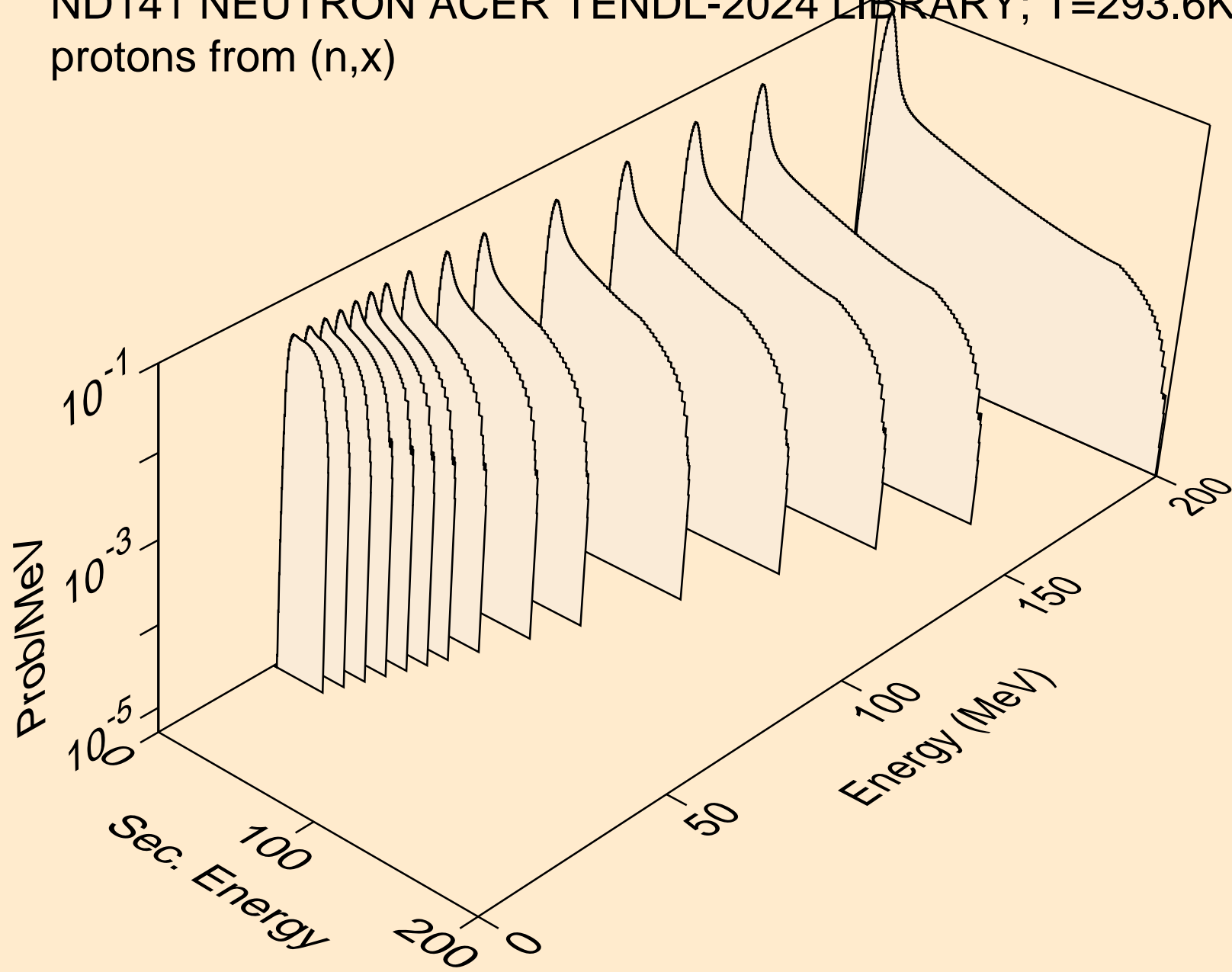
## Recoil Heating



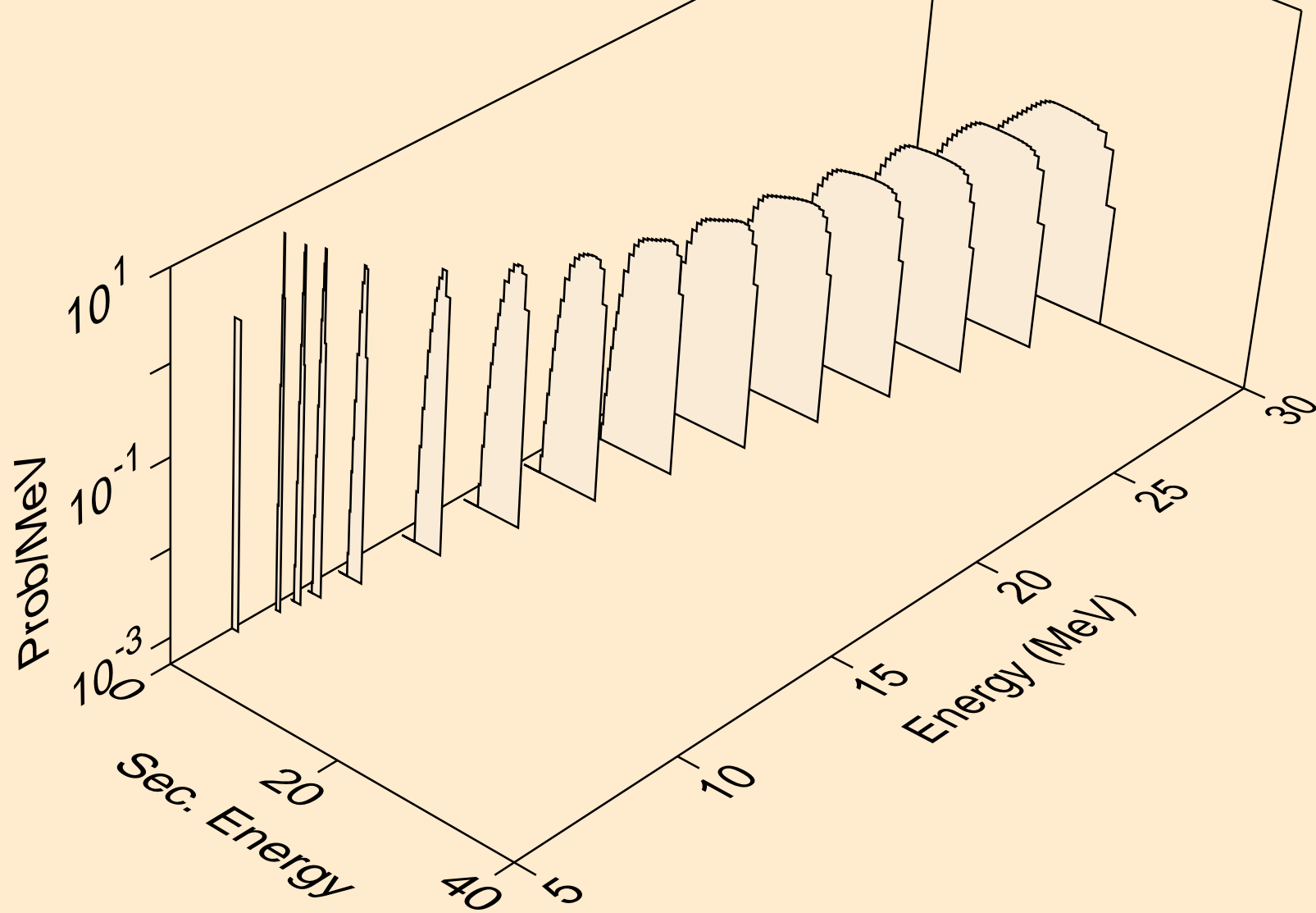
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Particle production cross sections



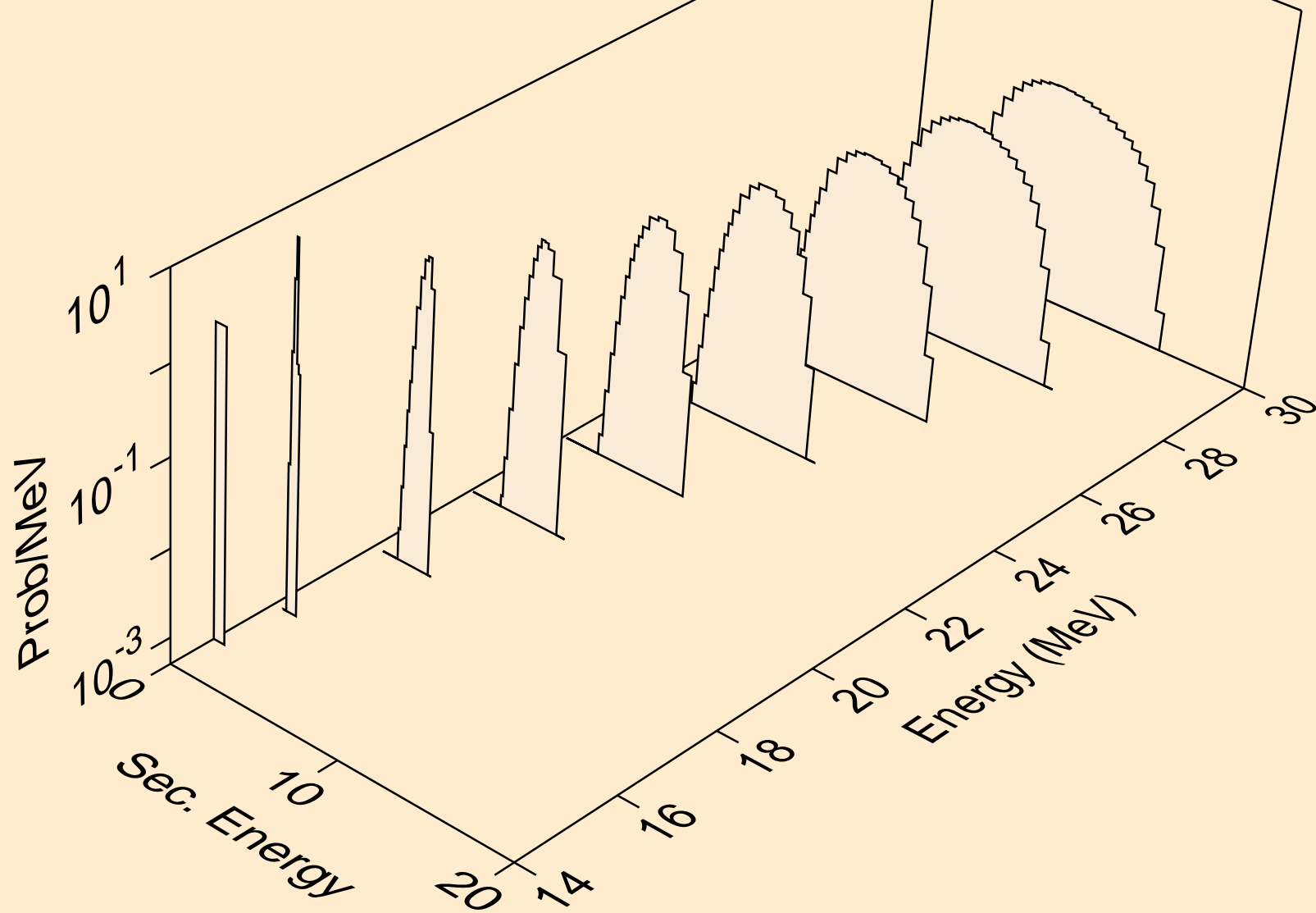
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protons from (n,x)



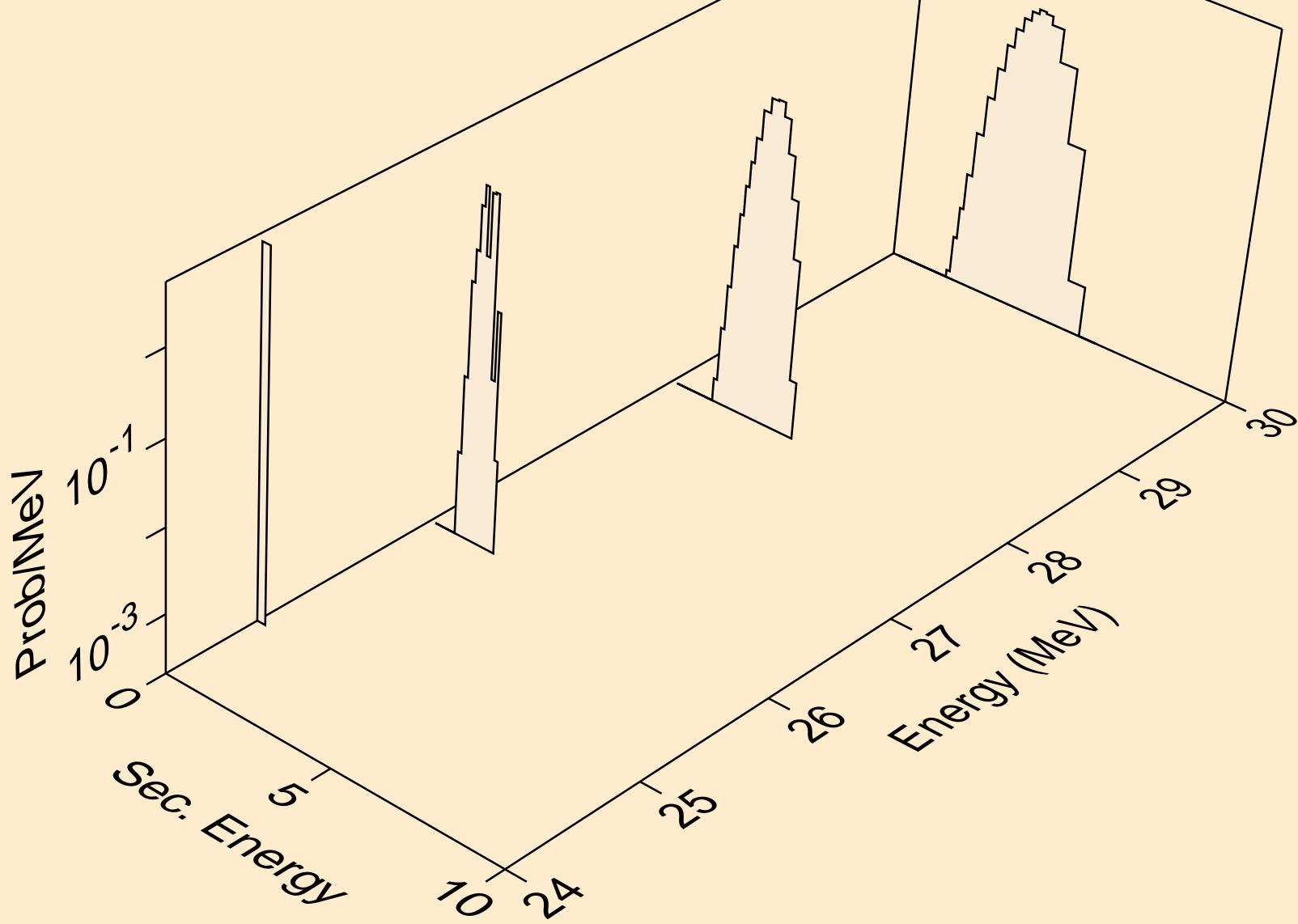
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protons from (n,n\*)p



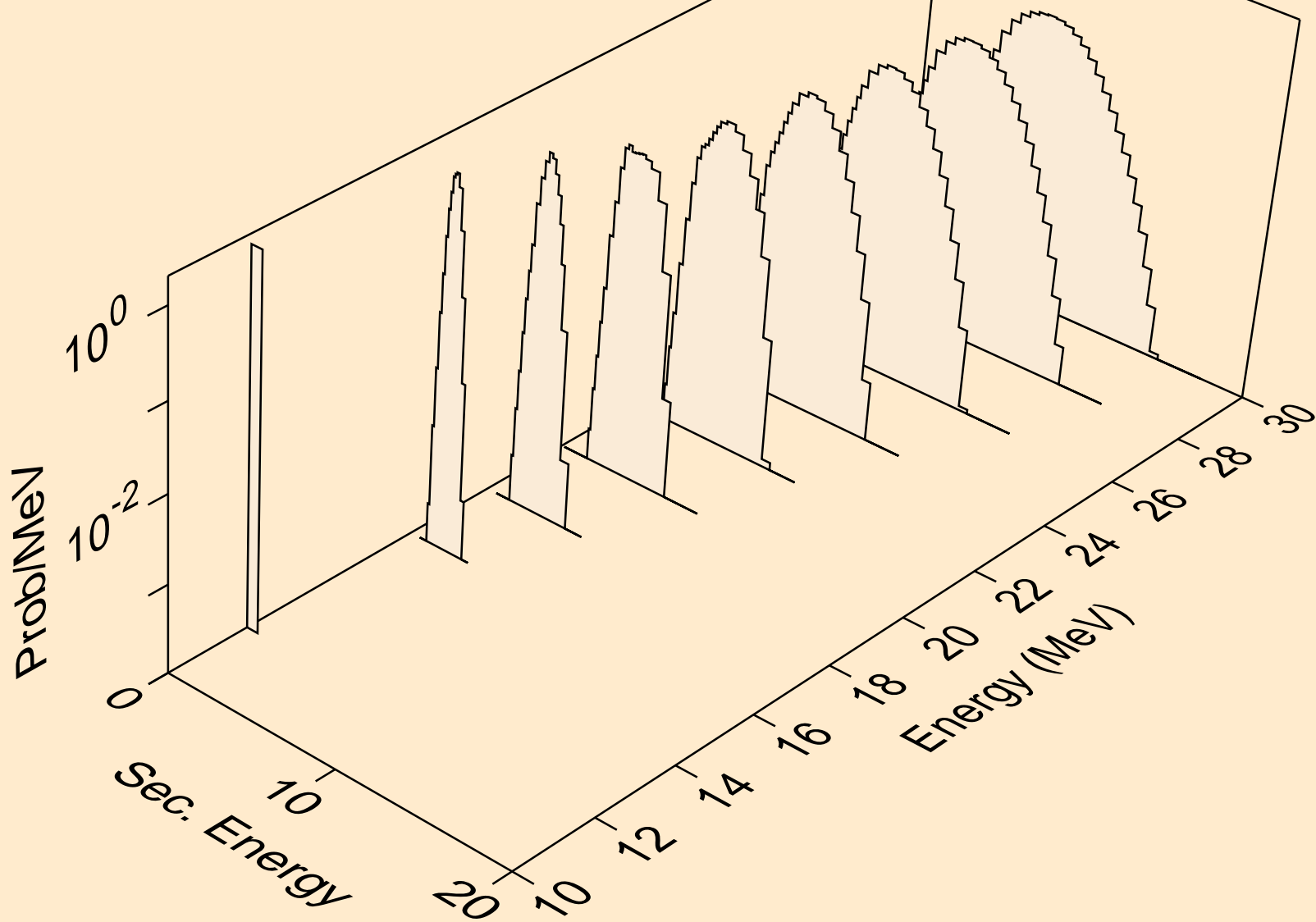
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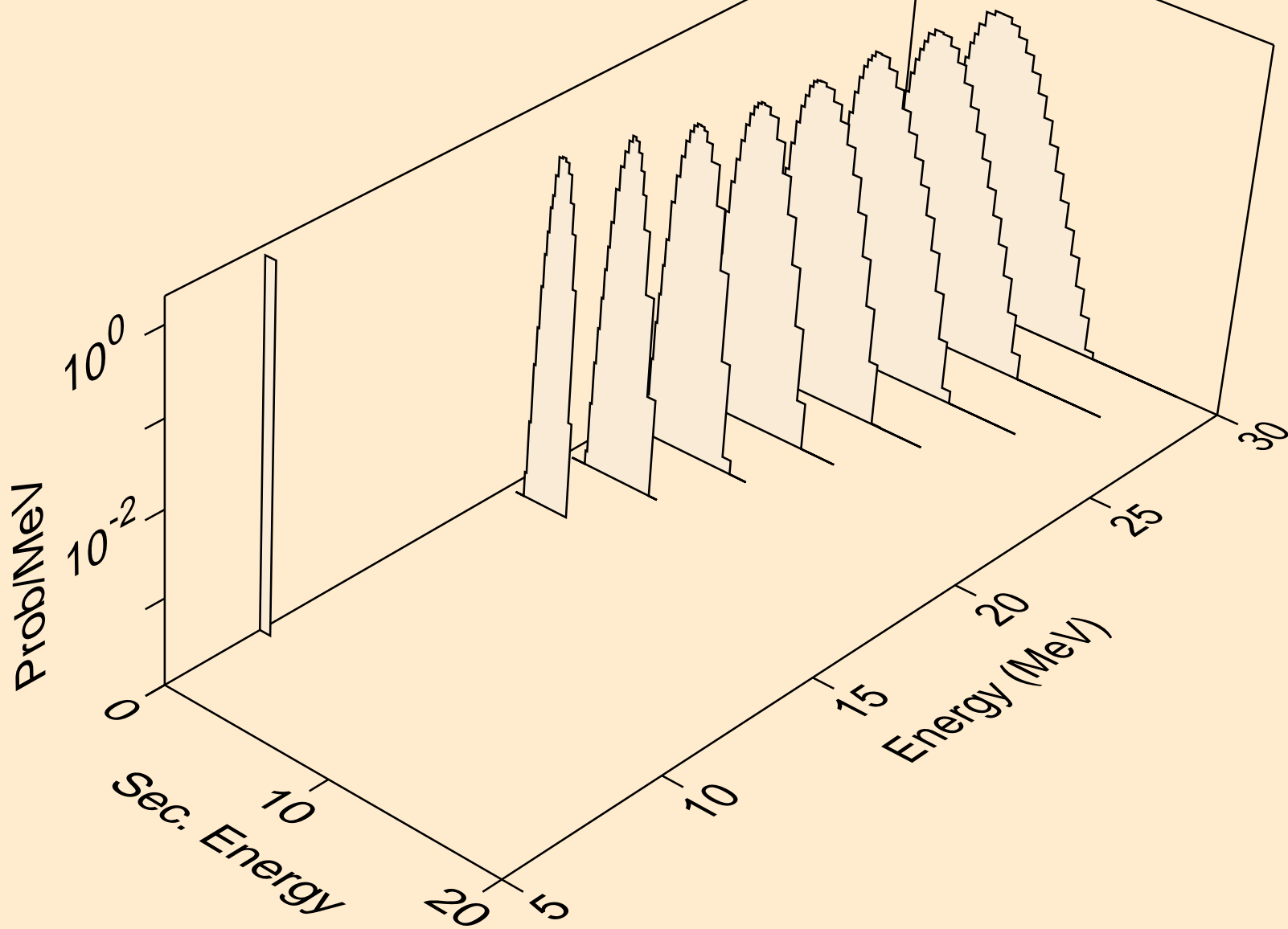
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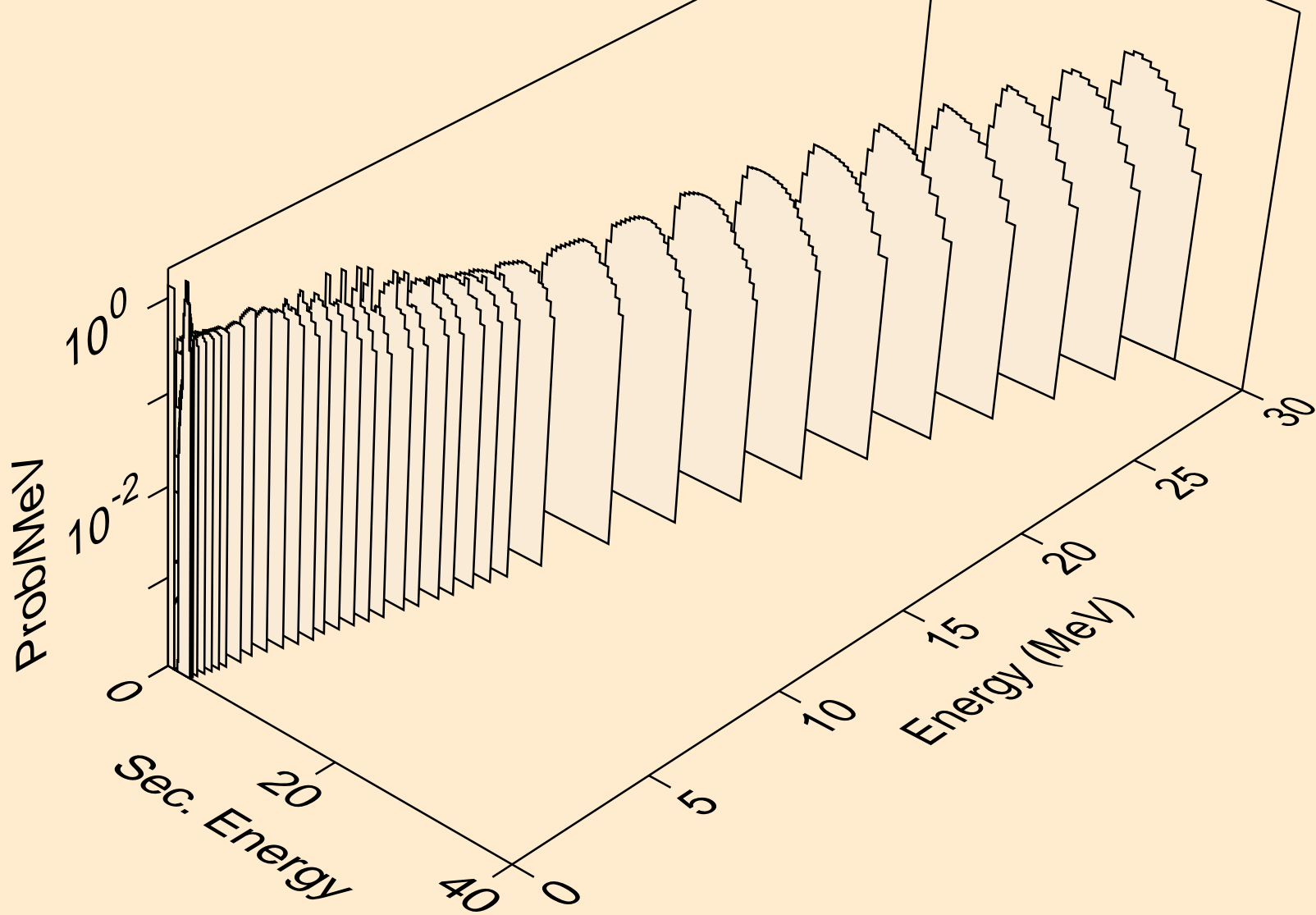
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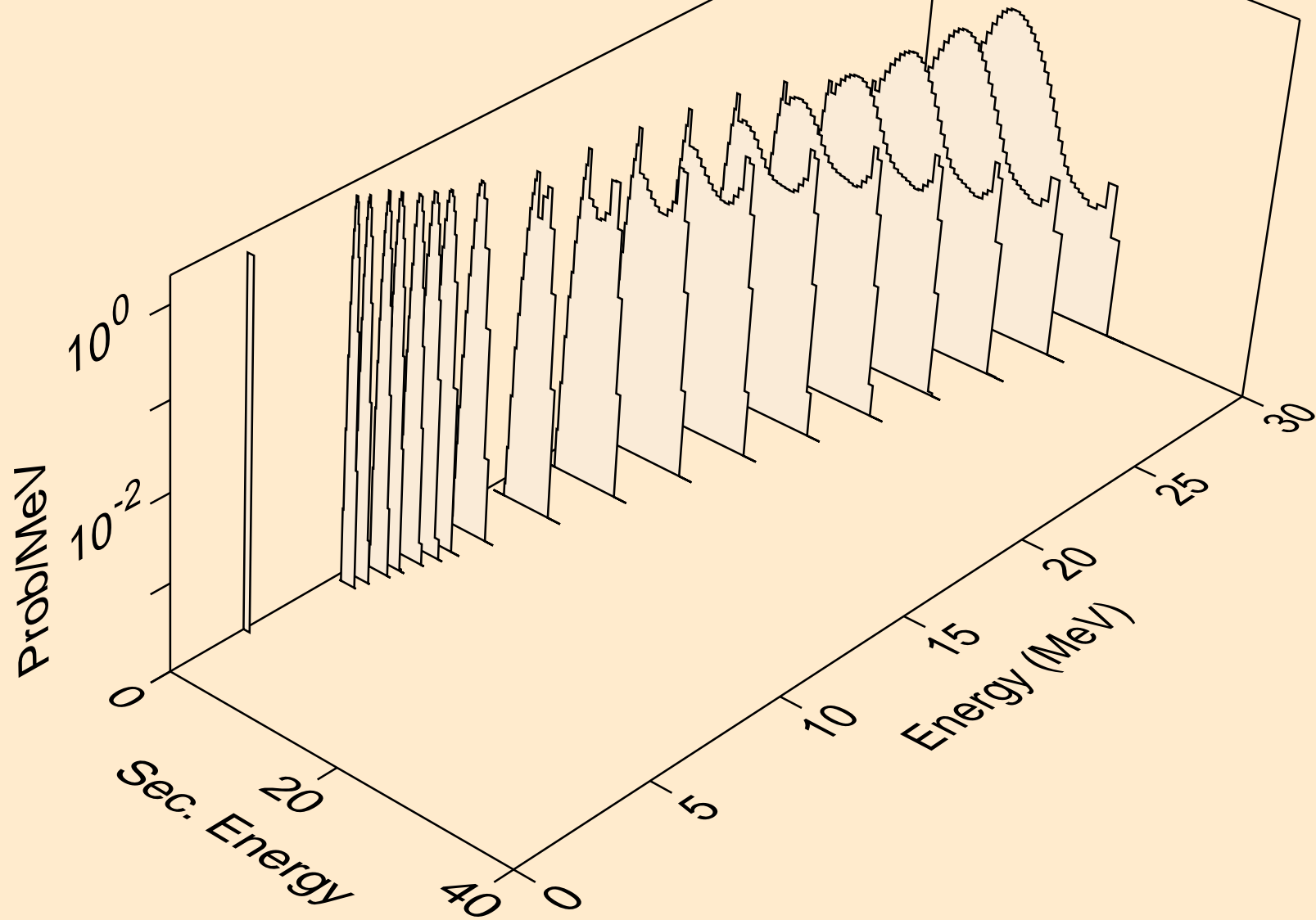
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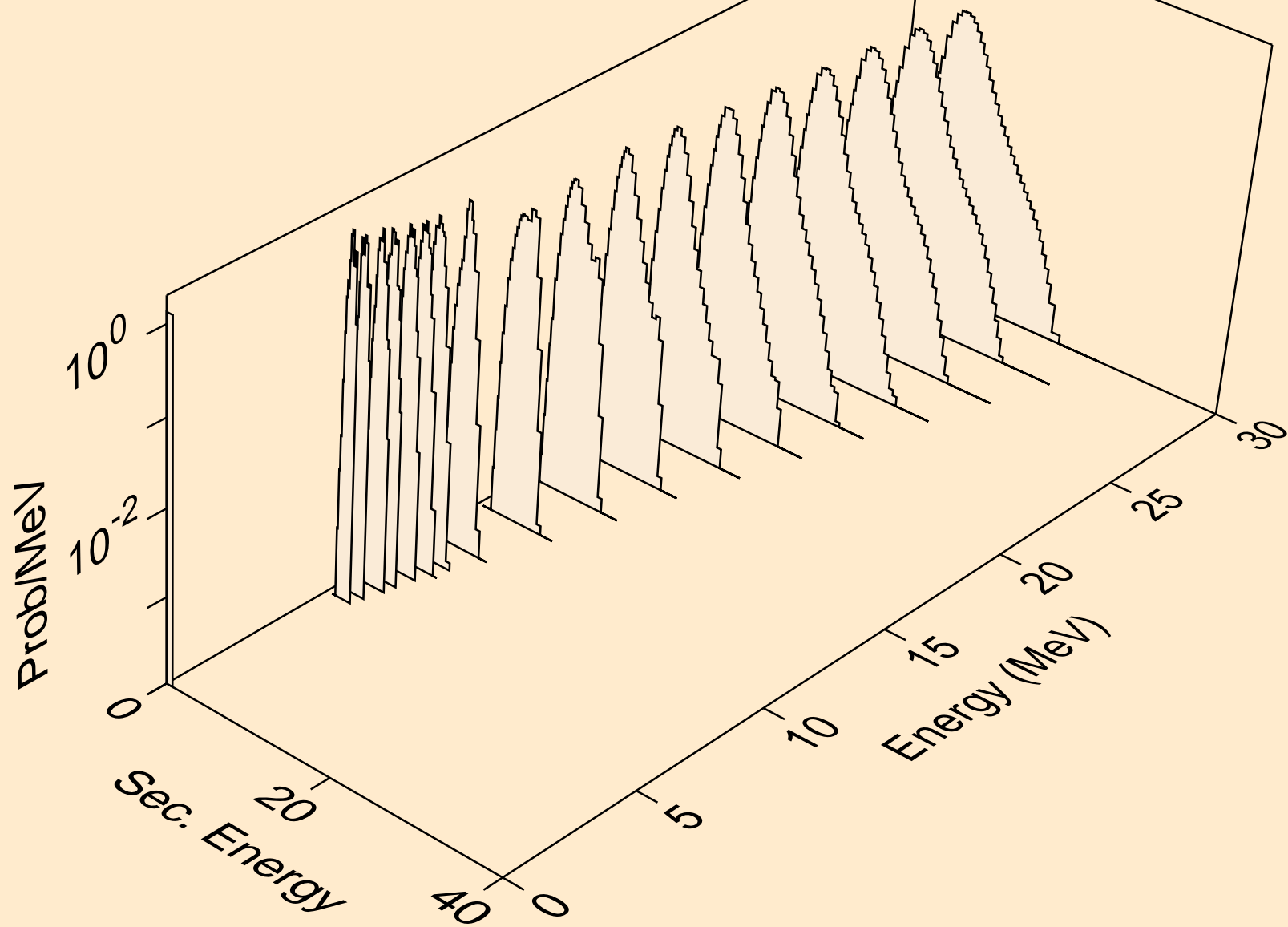
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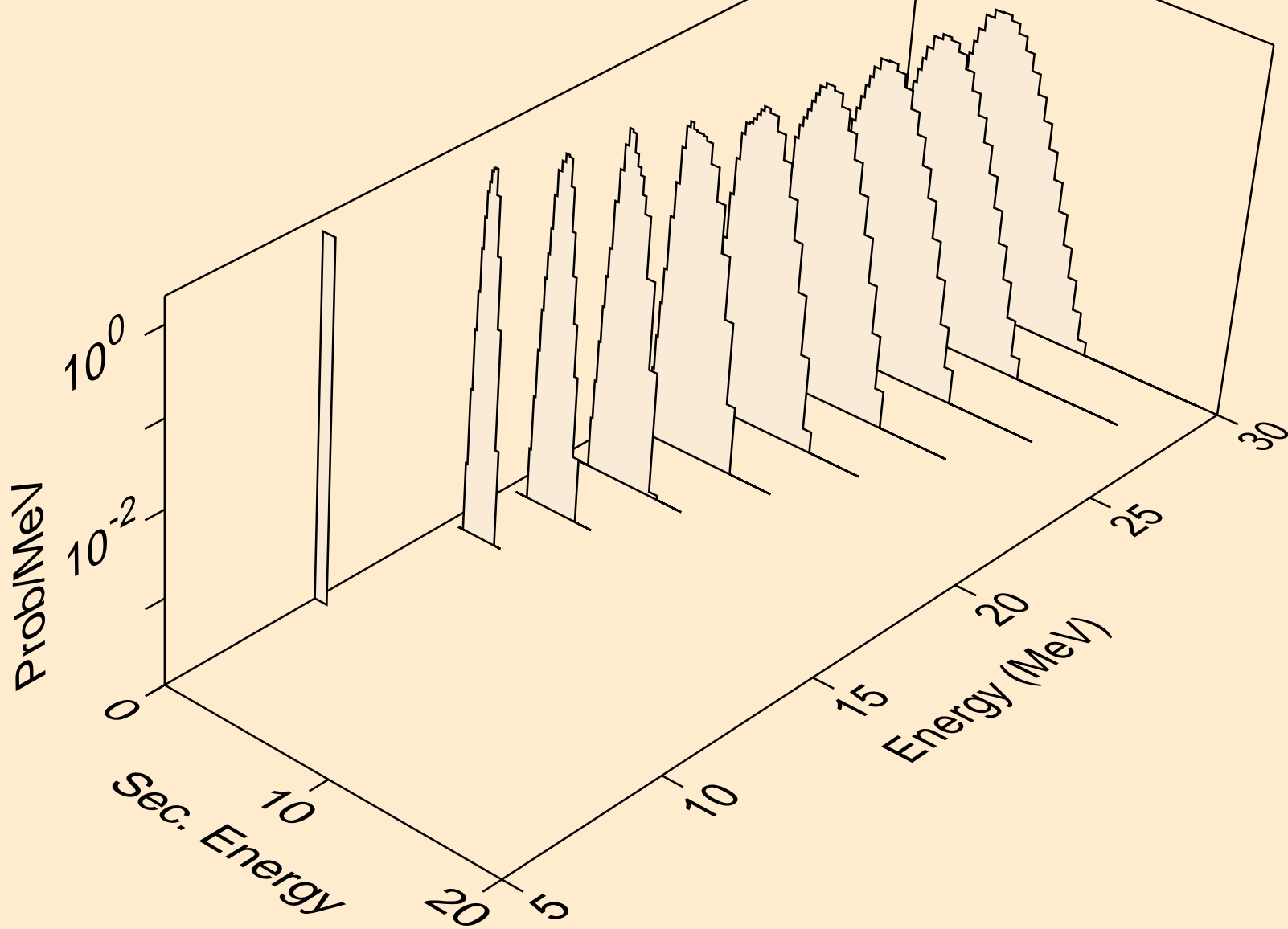
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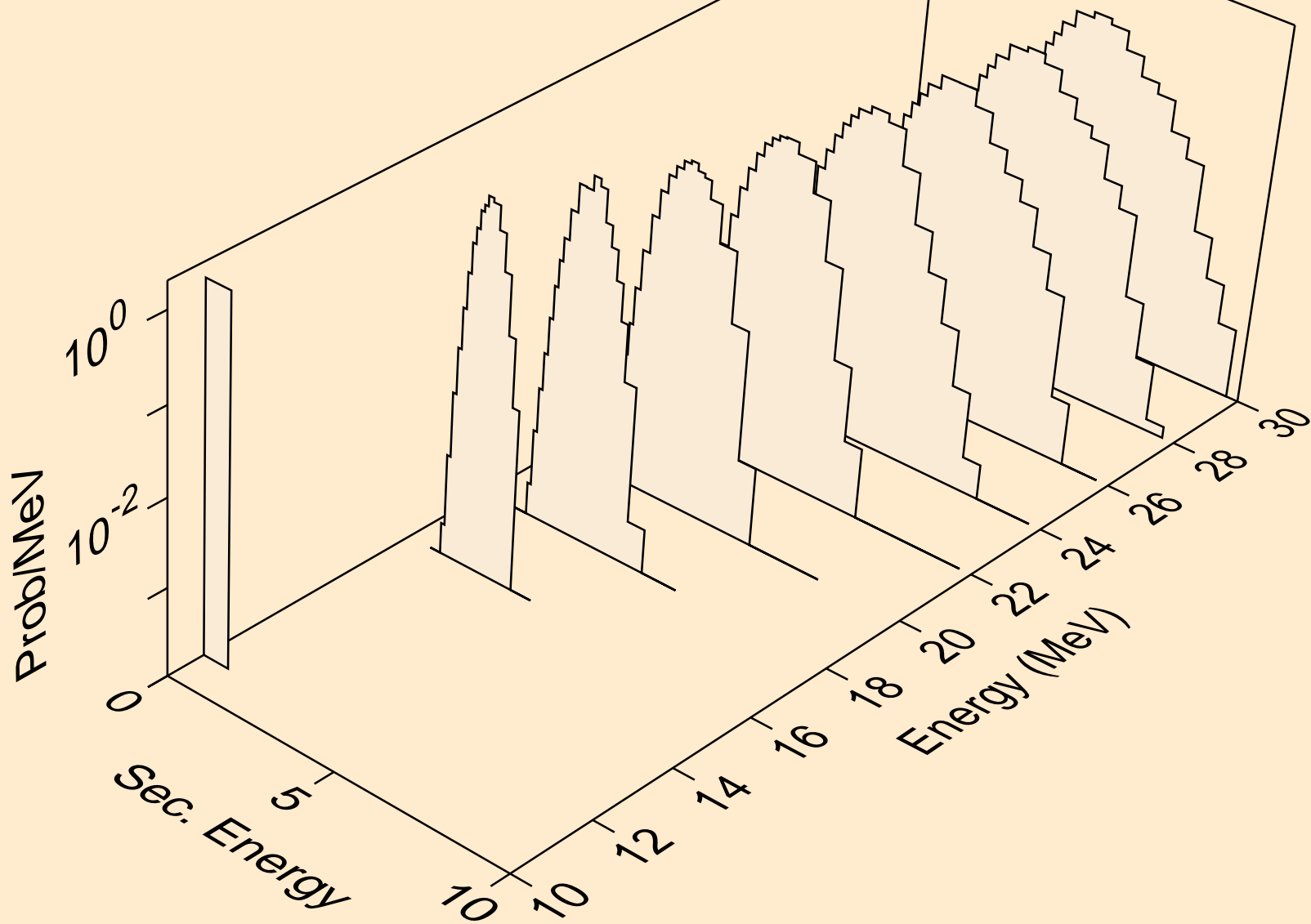
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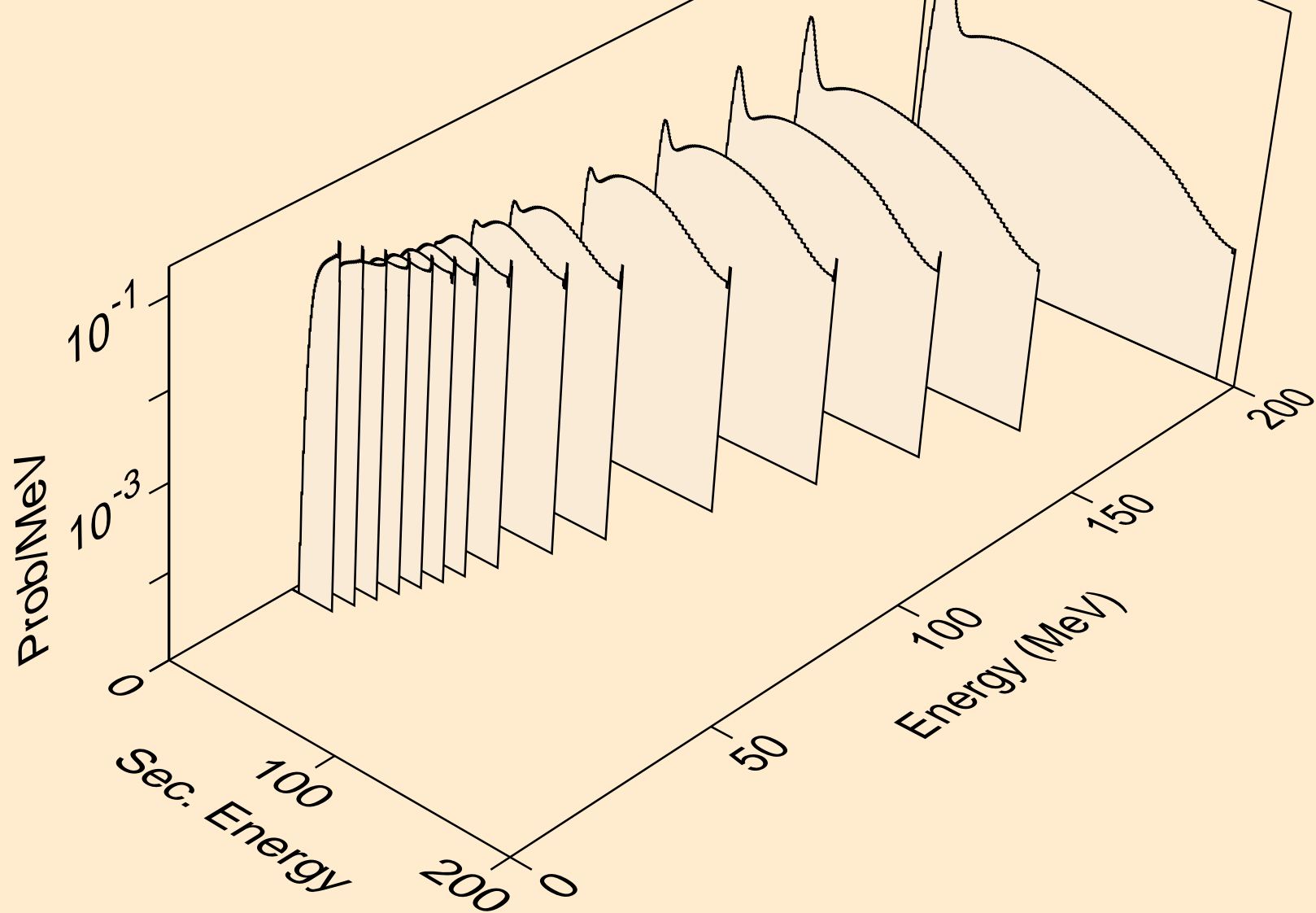
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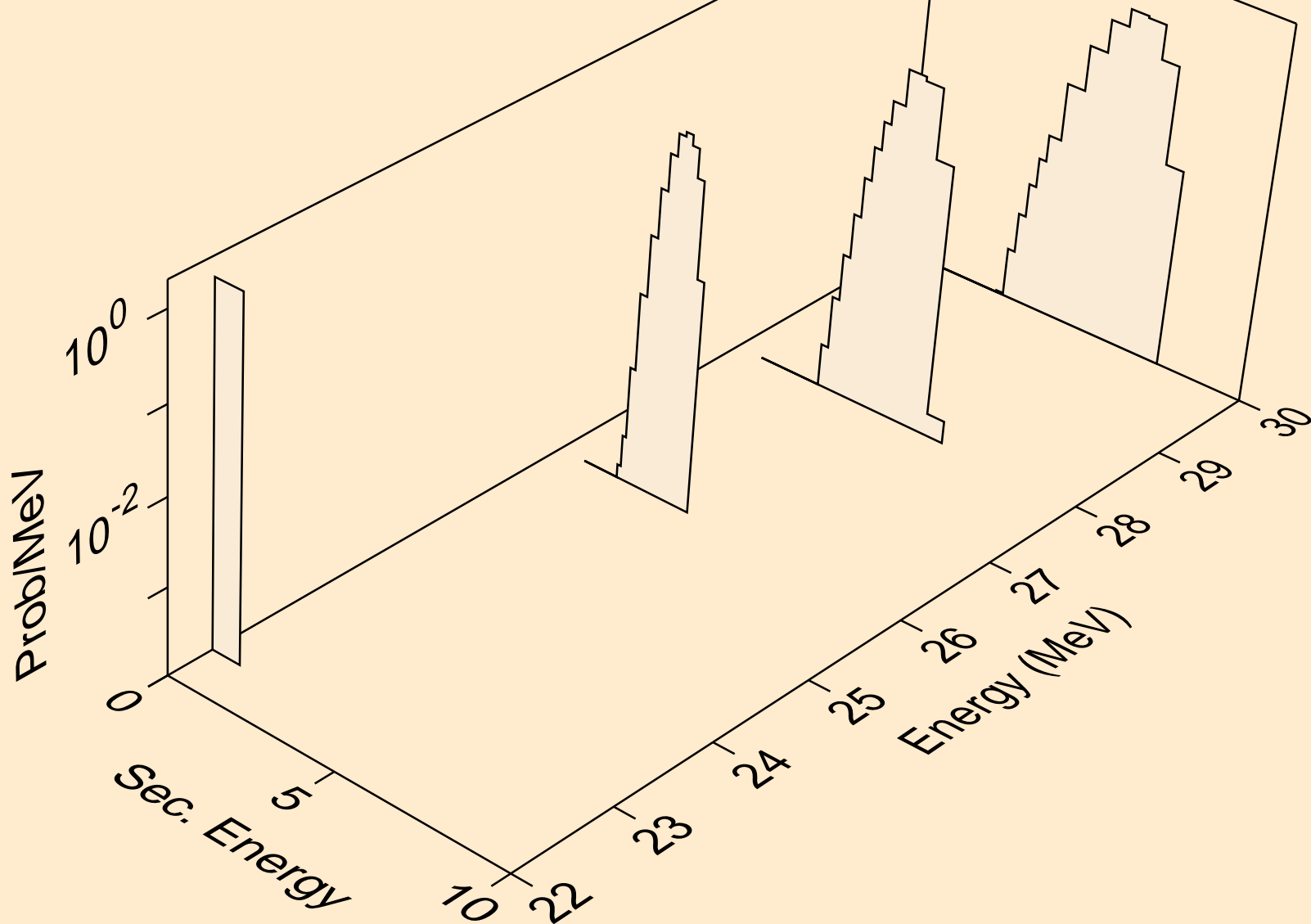
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protons from (n,pt)



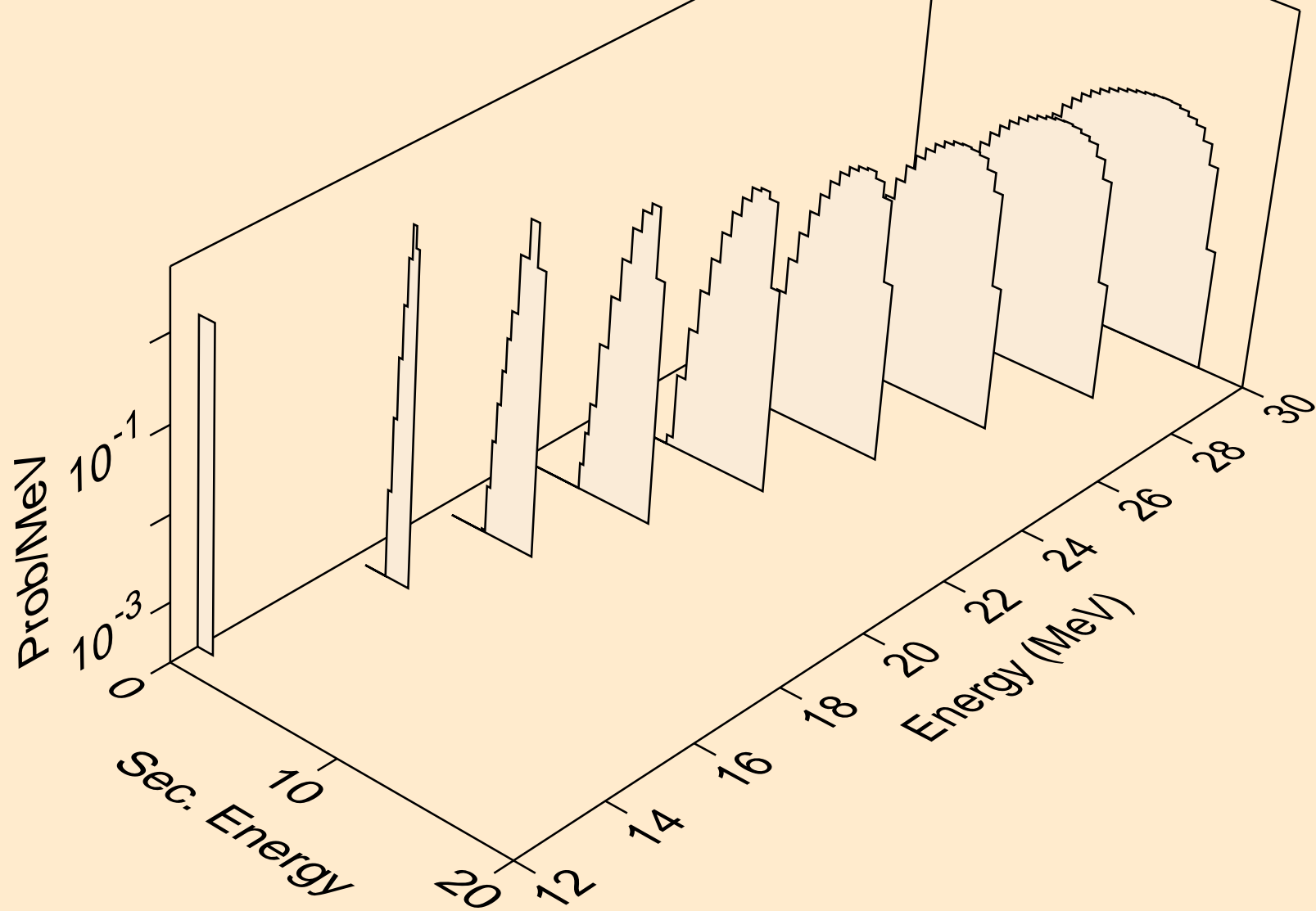
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deuterons from (n,x)



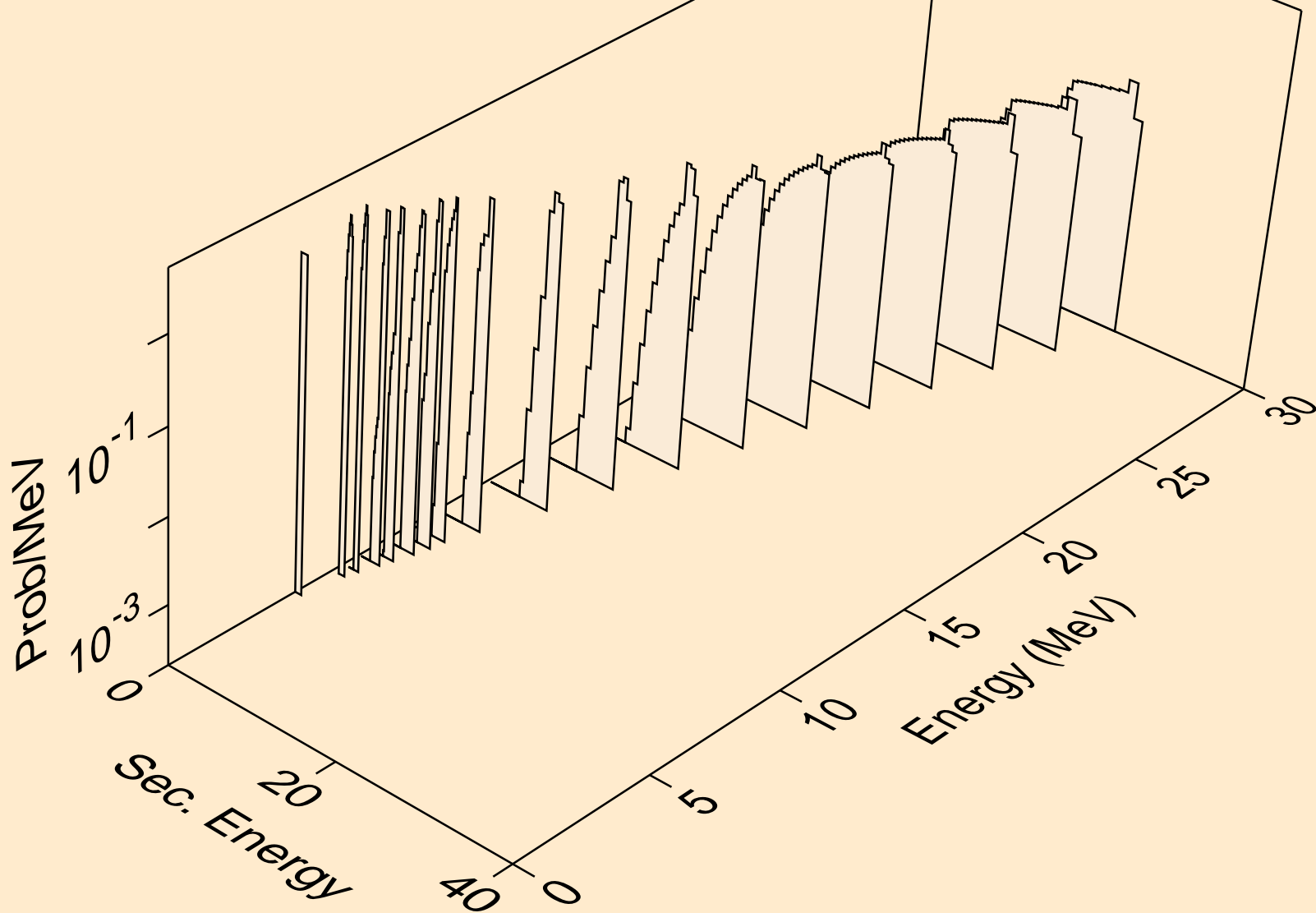
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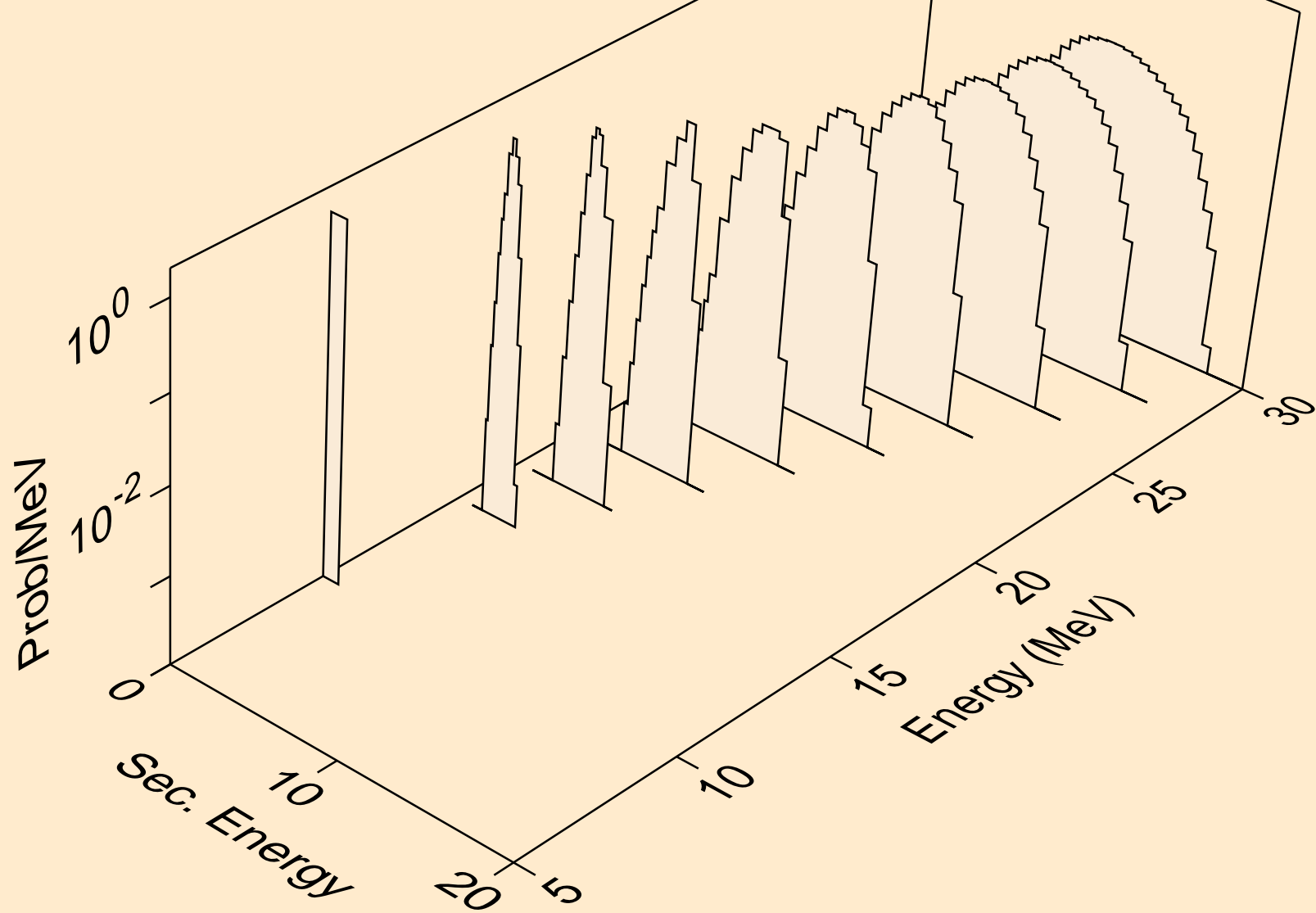
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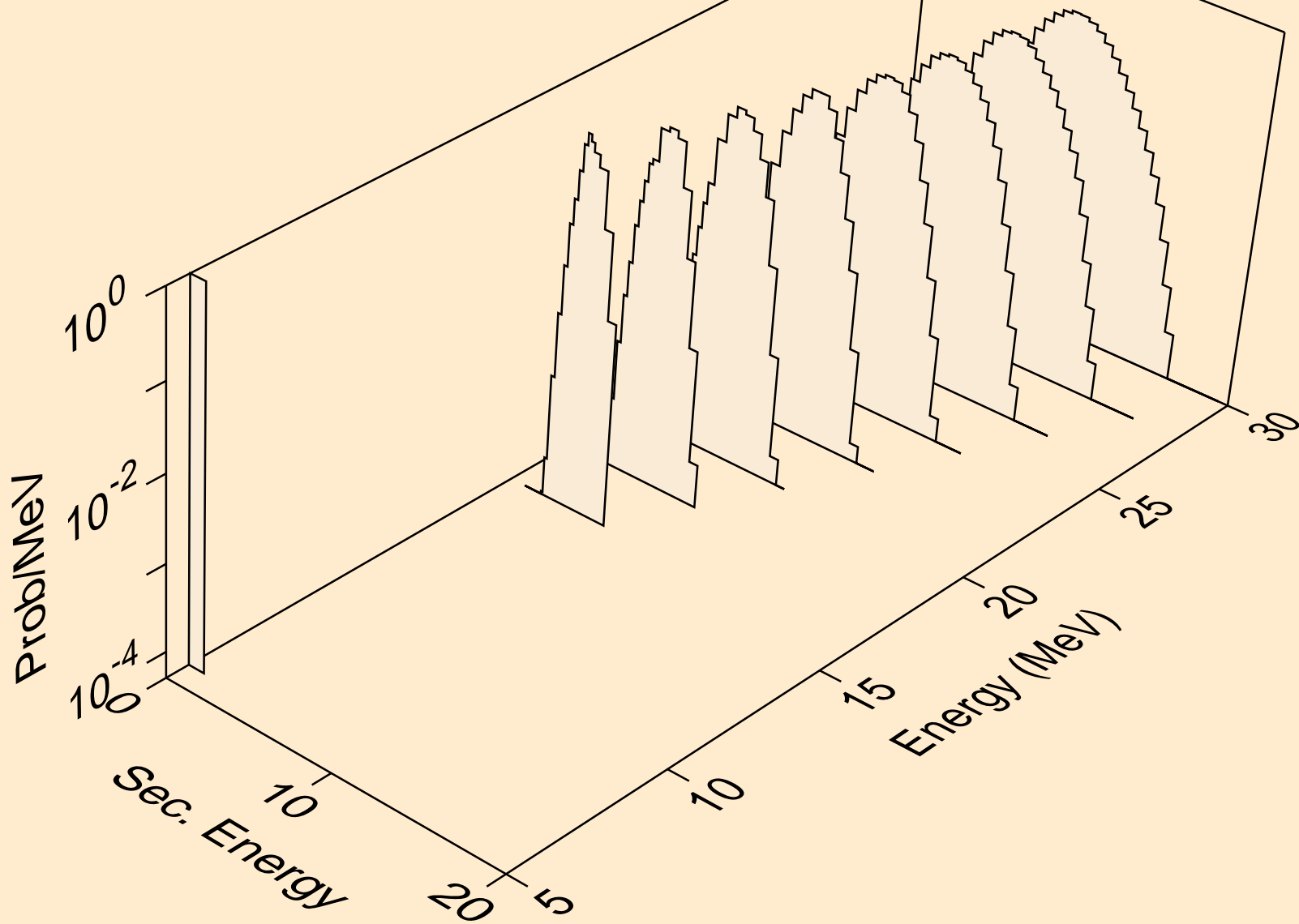
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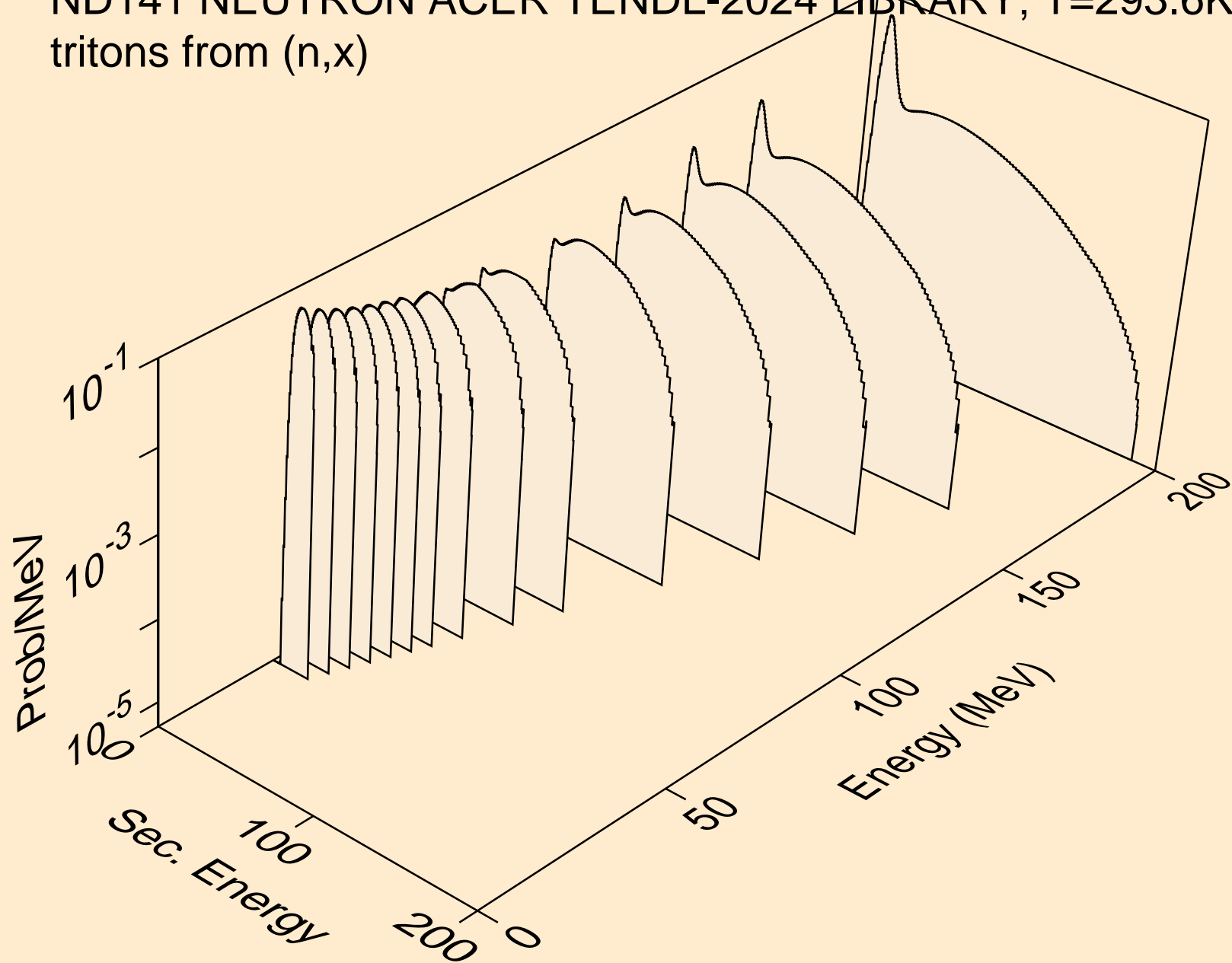
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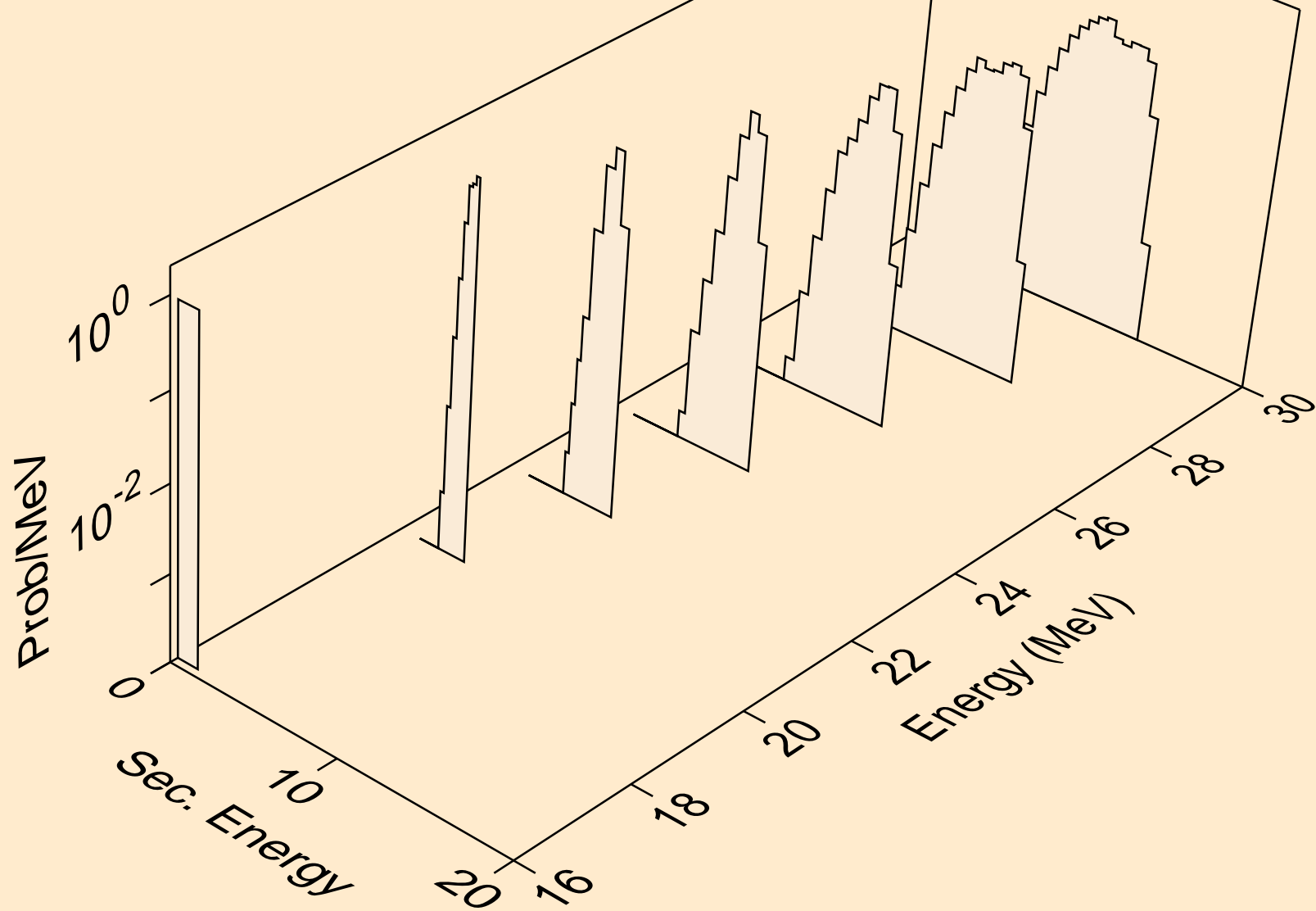
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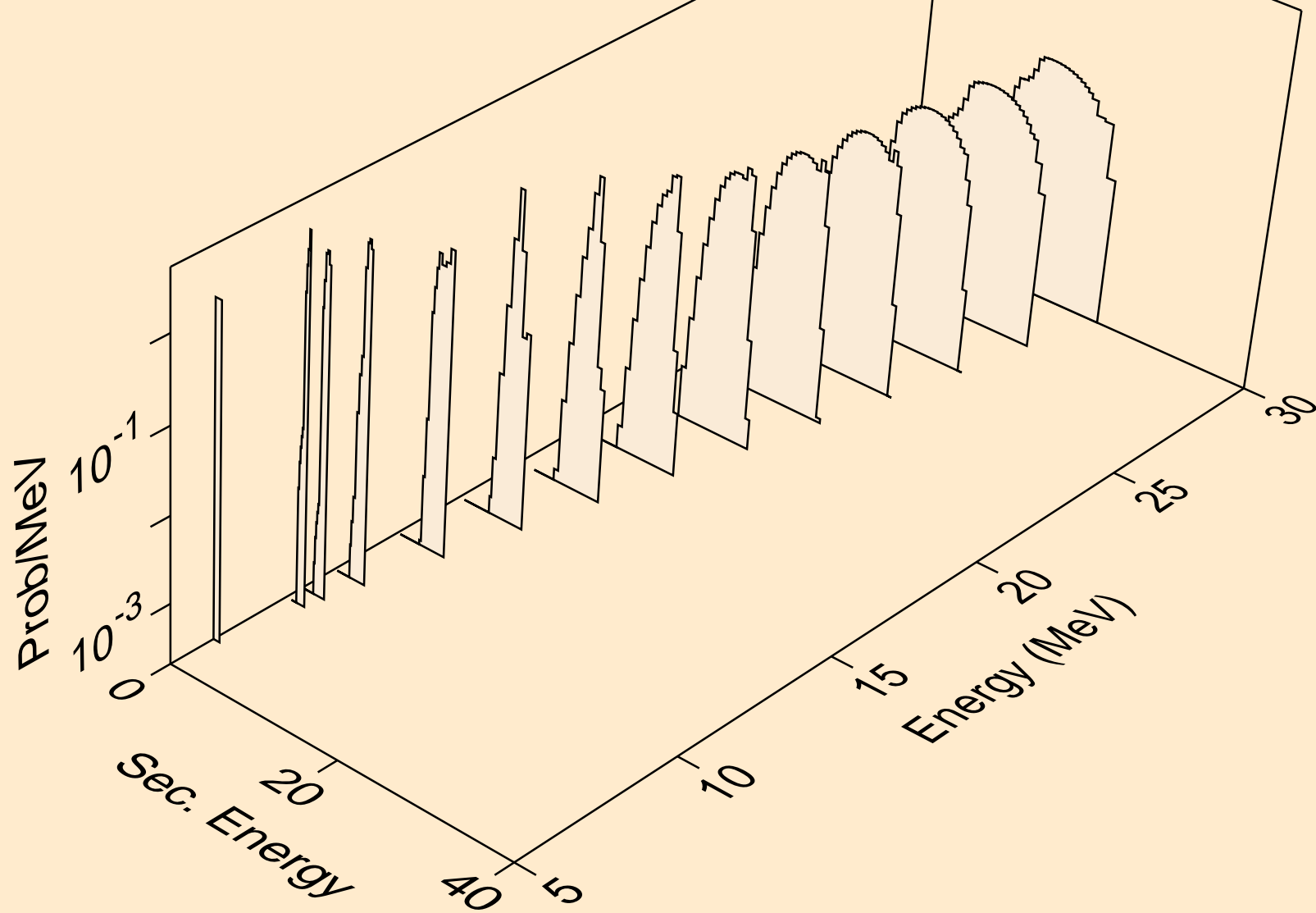
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tritons from (n,x)



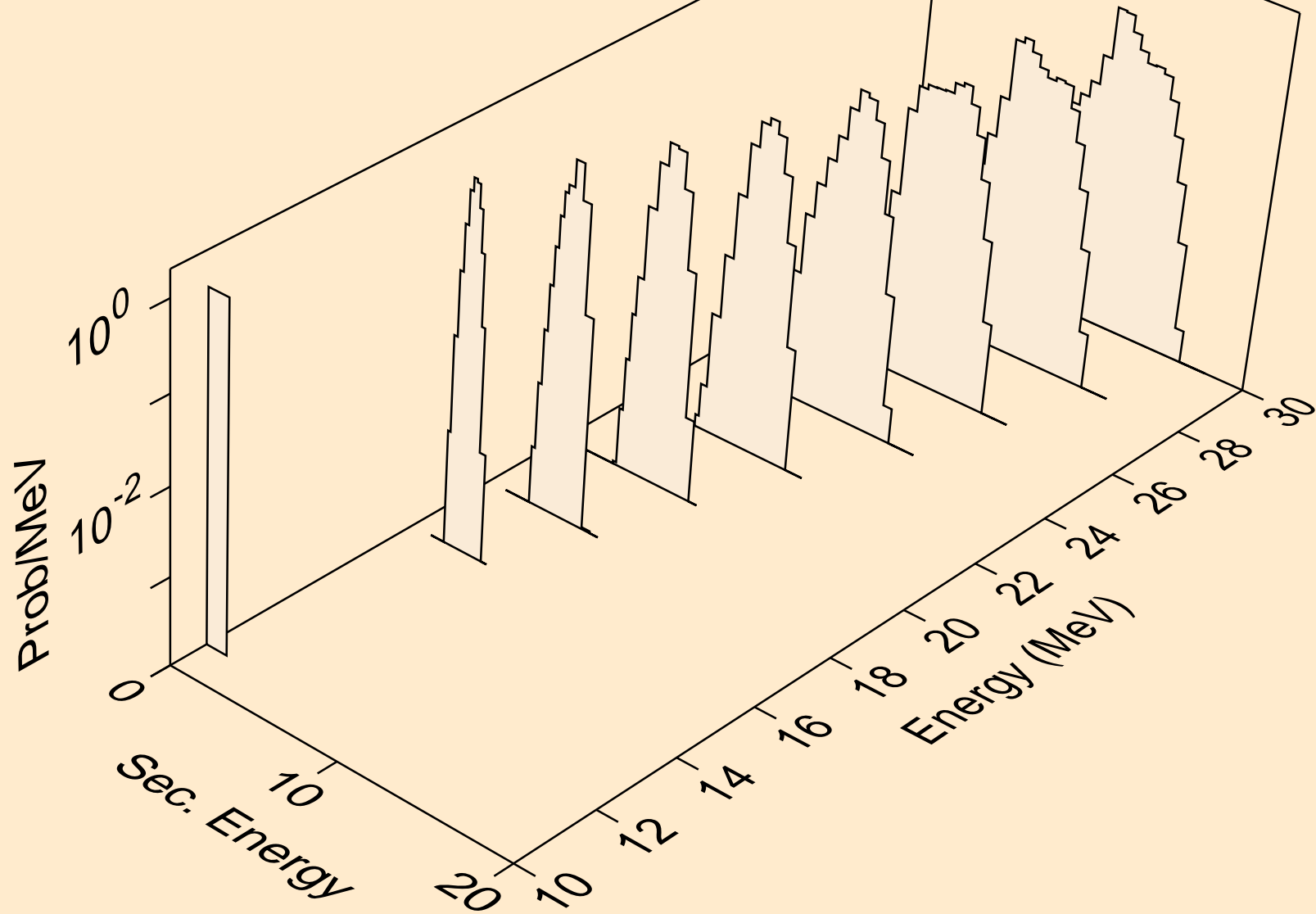
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tritons from (n,n\*)t



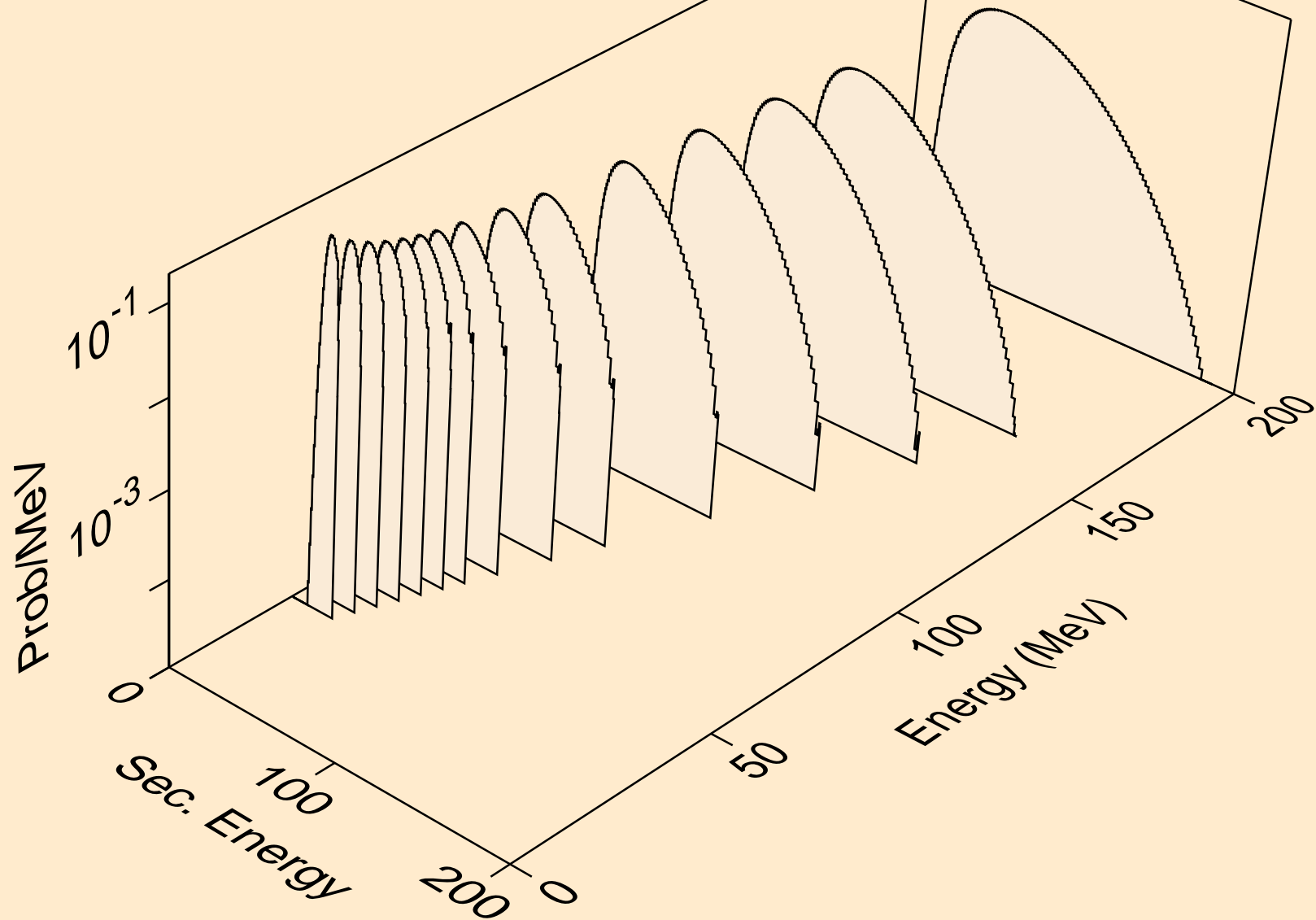
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tritons from (n,t)



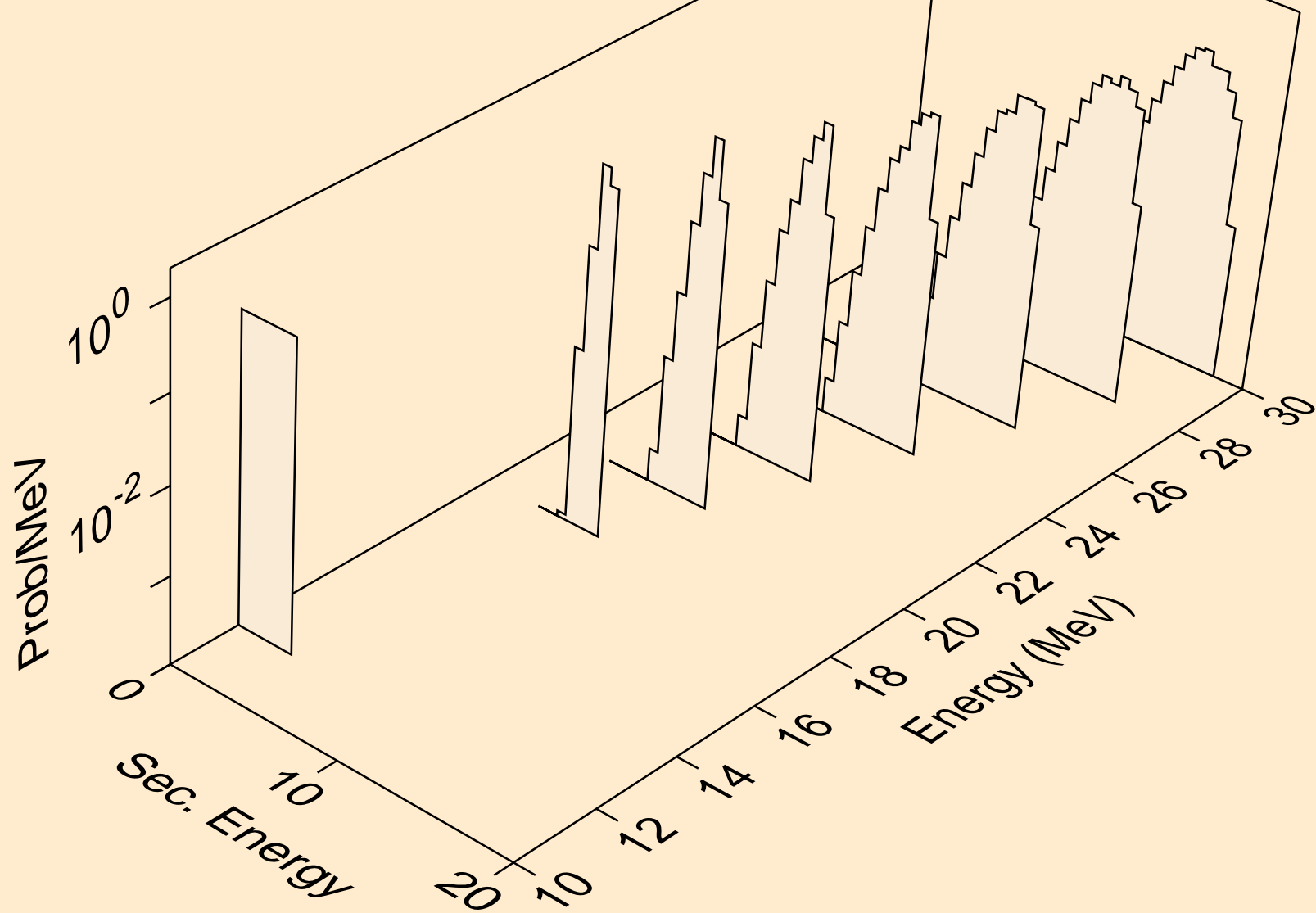
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tritons from (n,pt)



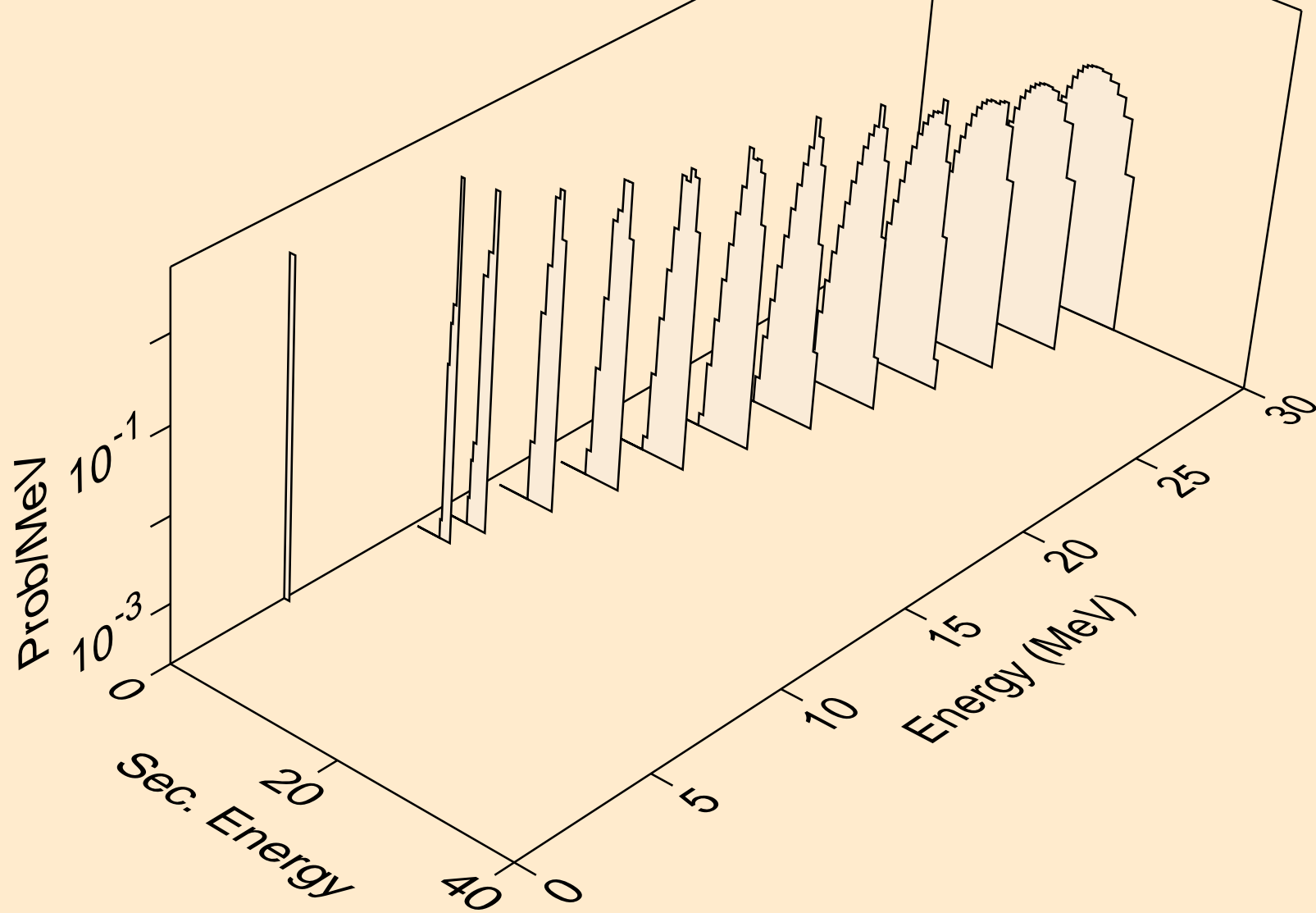
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he3s from (n,x)



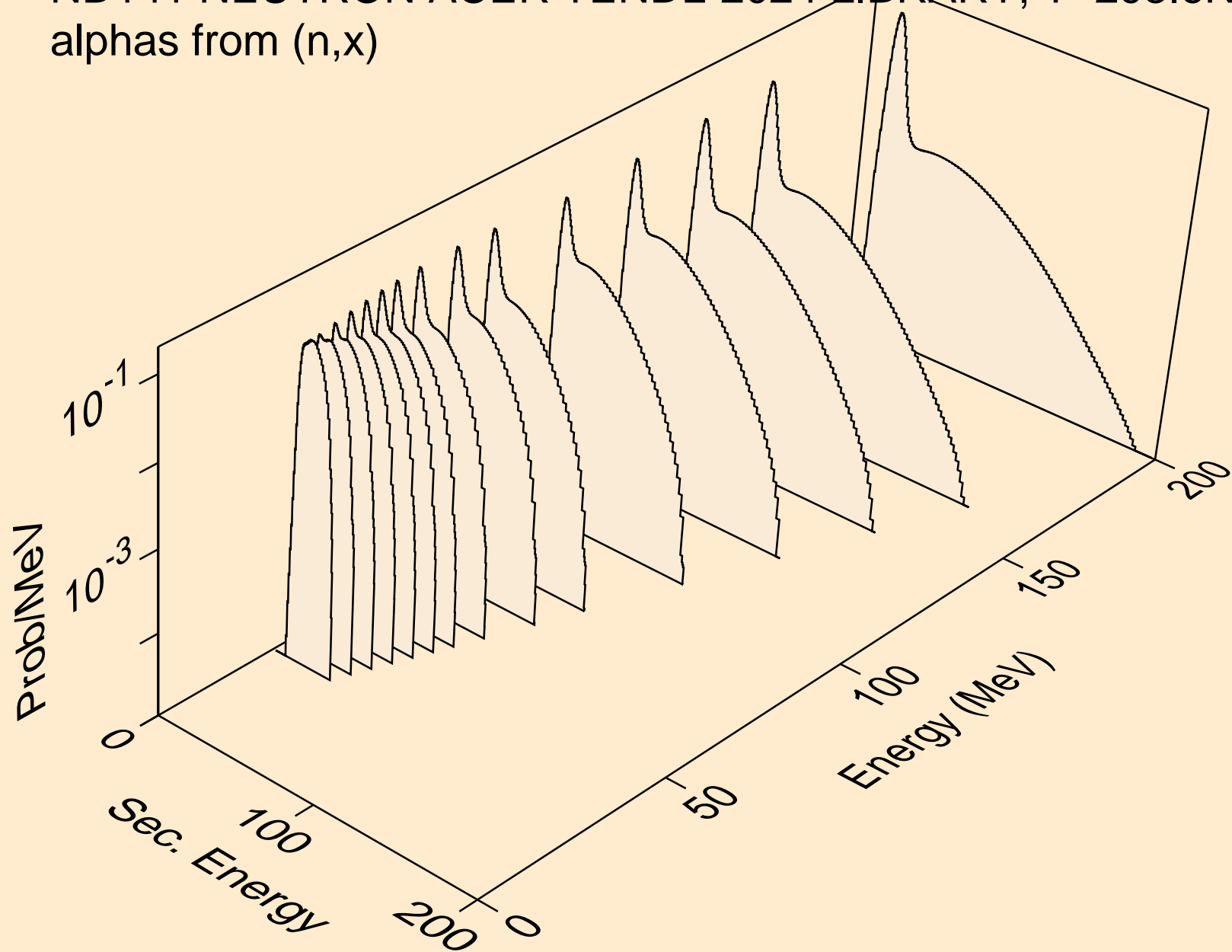
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he3s from (n,n\*)he3



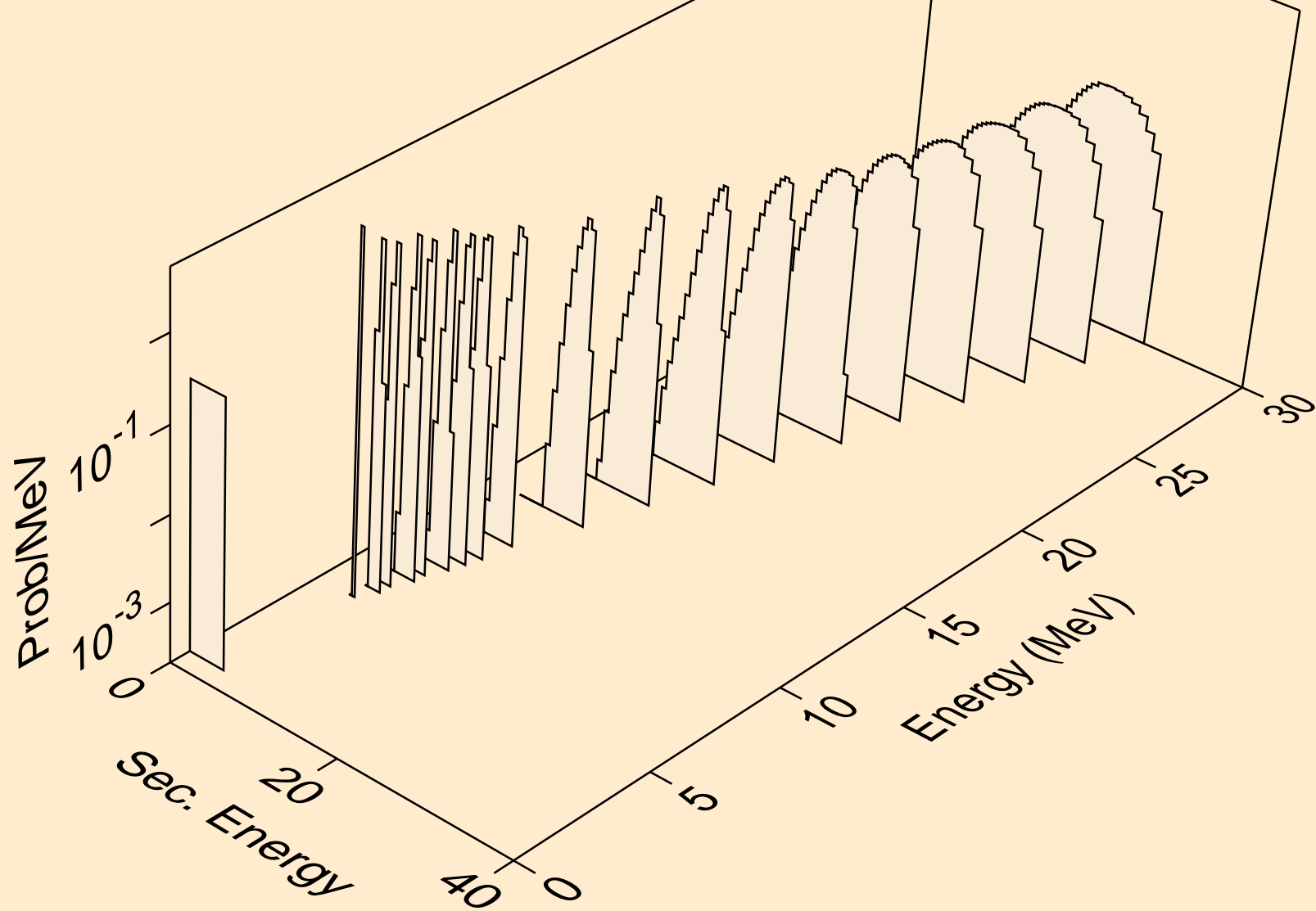
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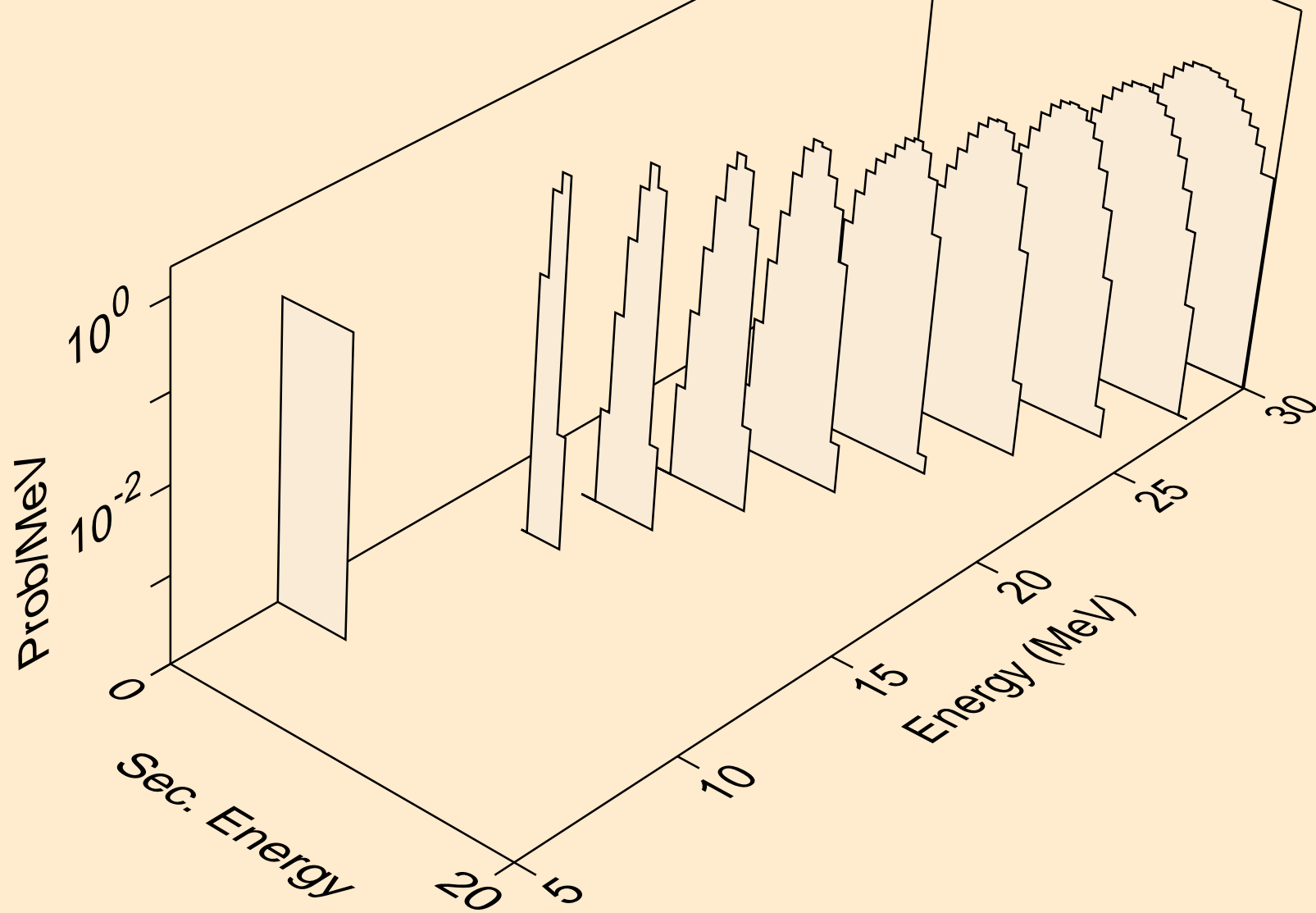
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alphas from (n,x)



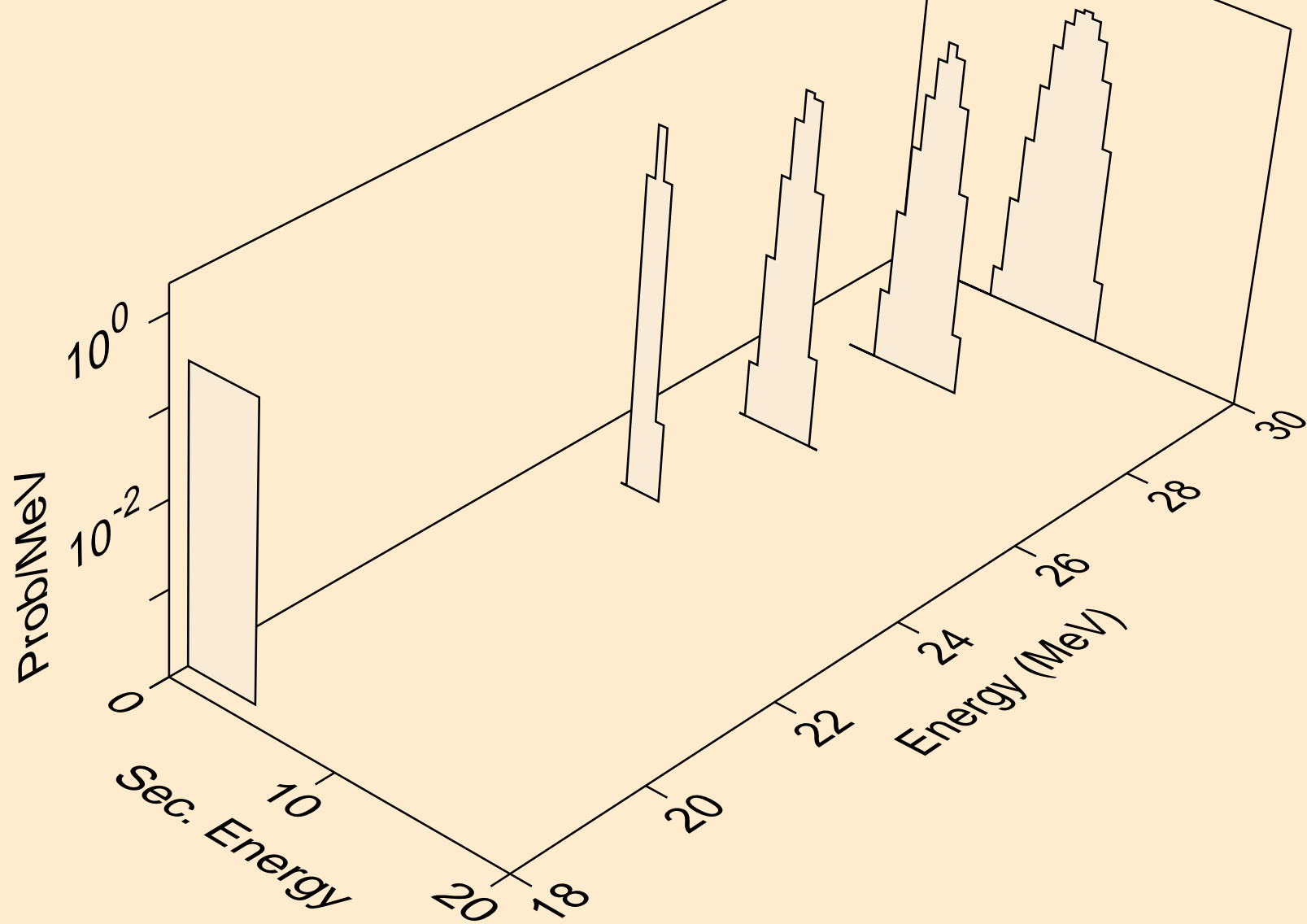
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alphas from (n,n\*)a



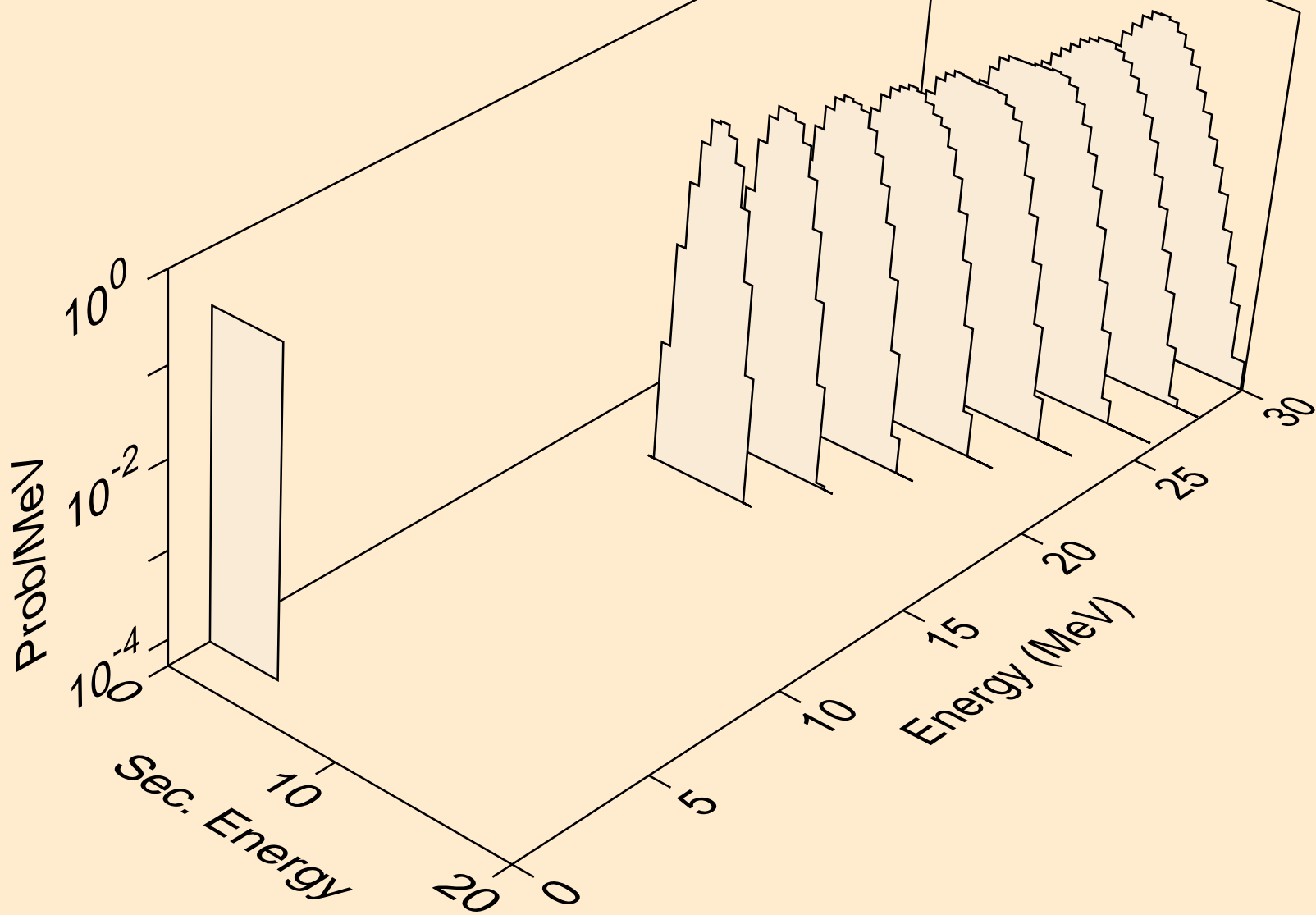
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alphas from (n,2n)a



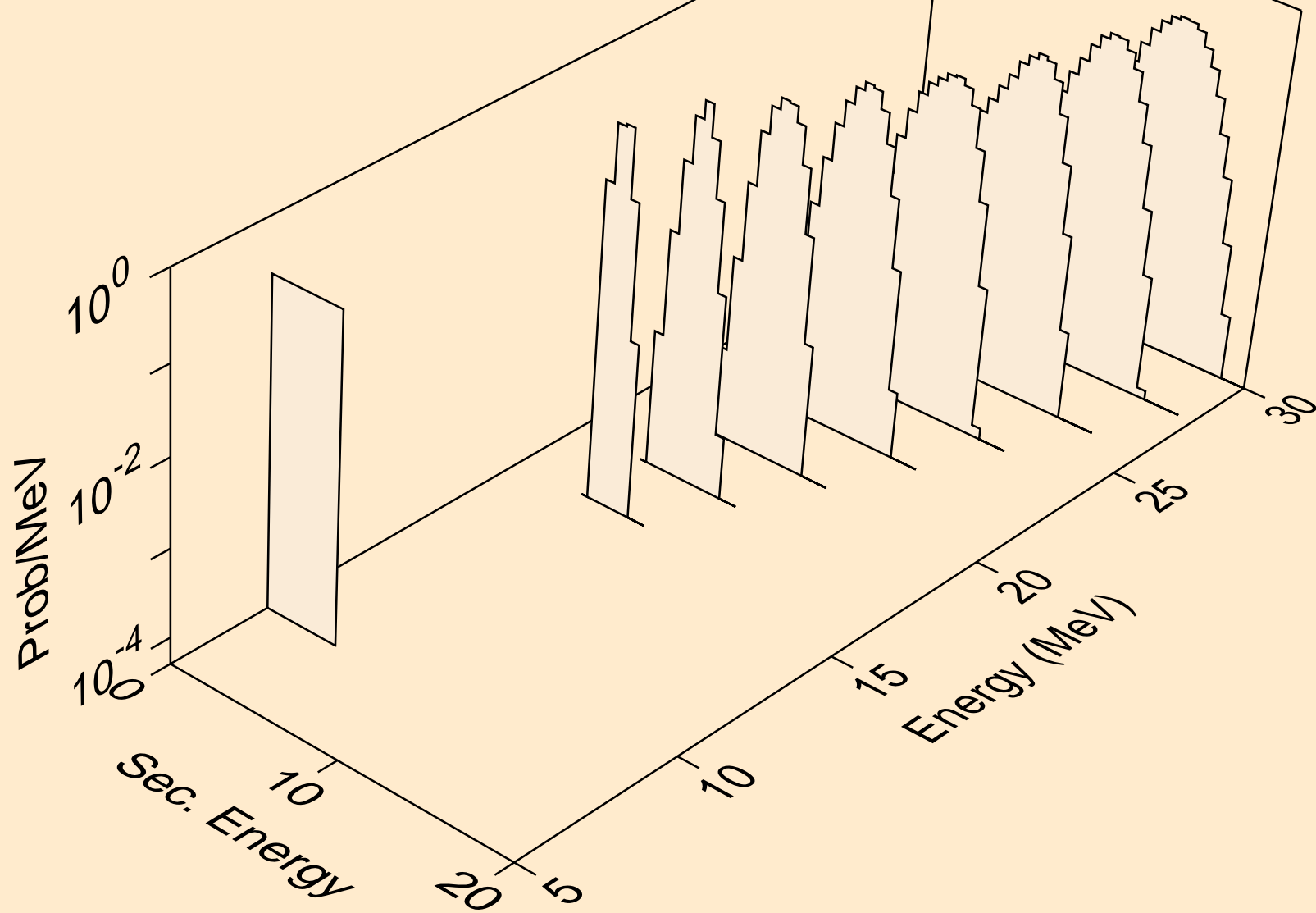
ND141 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
alphas from (n,3n)a



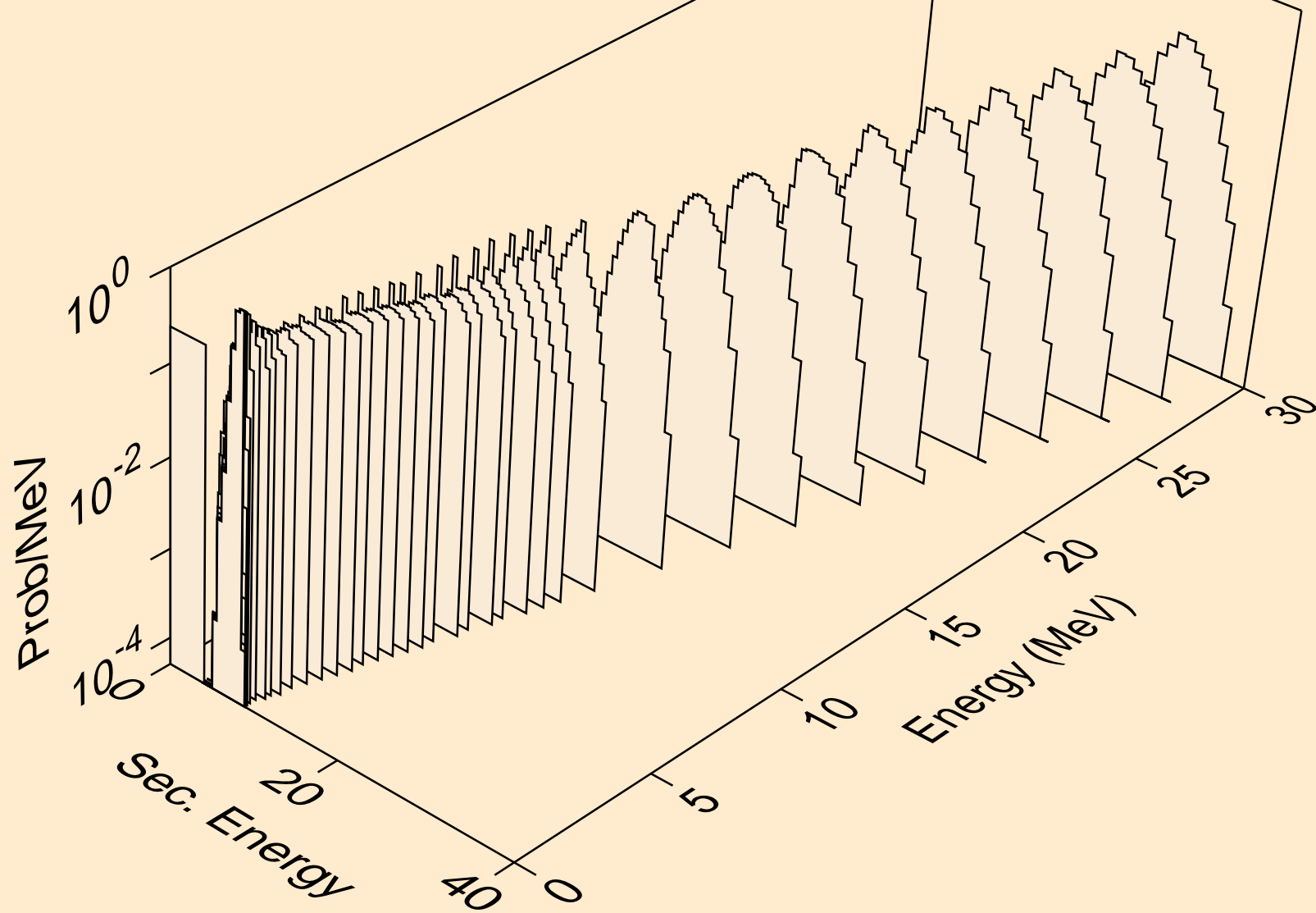
ND141 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
alphas from (n,n\*)2a



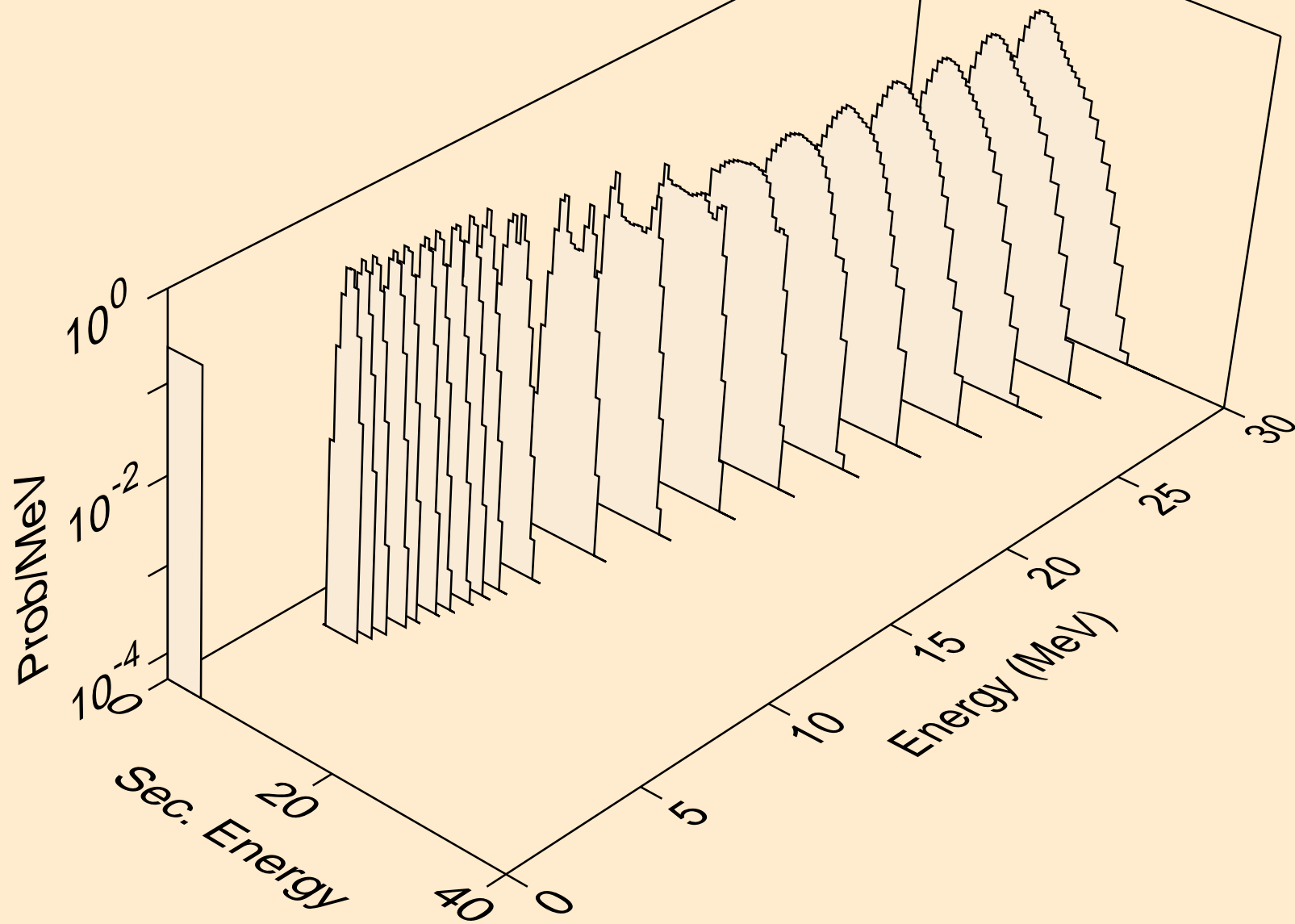
ND141 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
alphas from (n,npa)



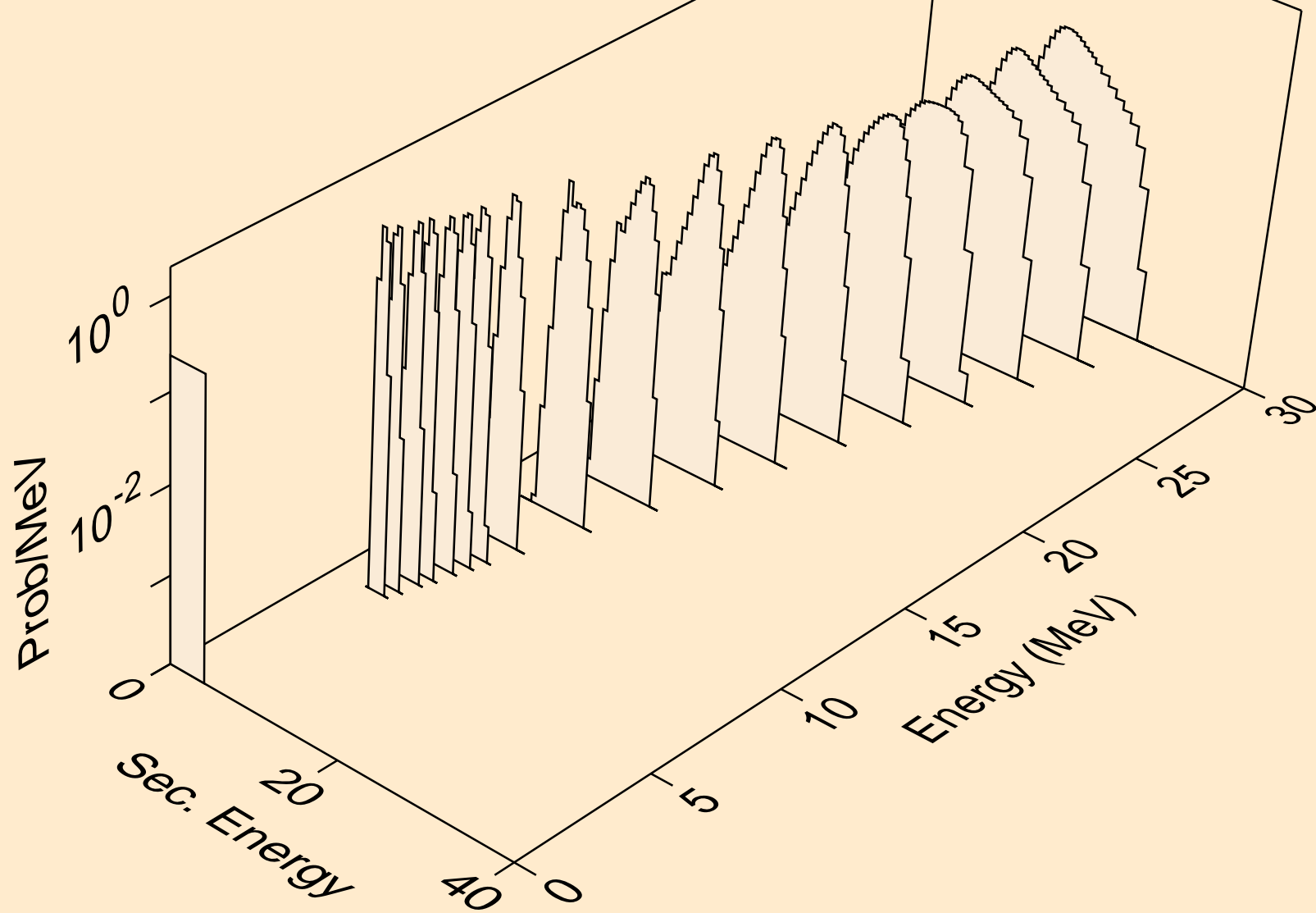
ND141 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
alphas from (n,a)



ND141 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
alphas from (n,2a)



ND141 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
alphas from (n,pa)



ND141 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
alphas from (n,da)

