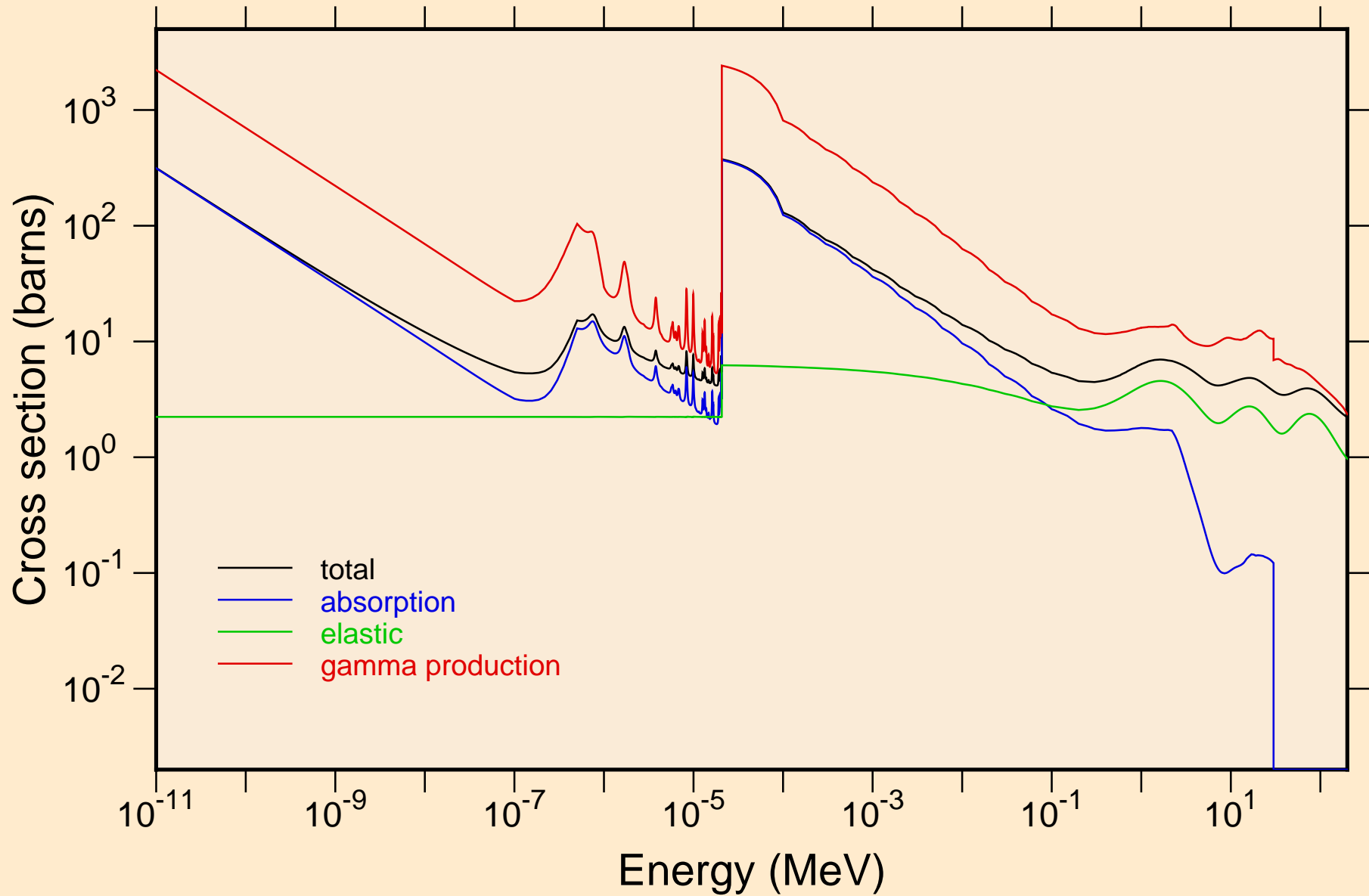
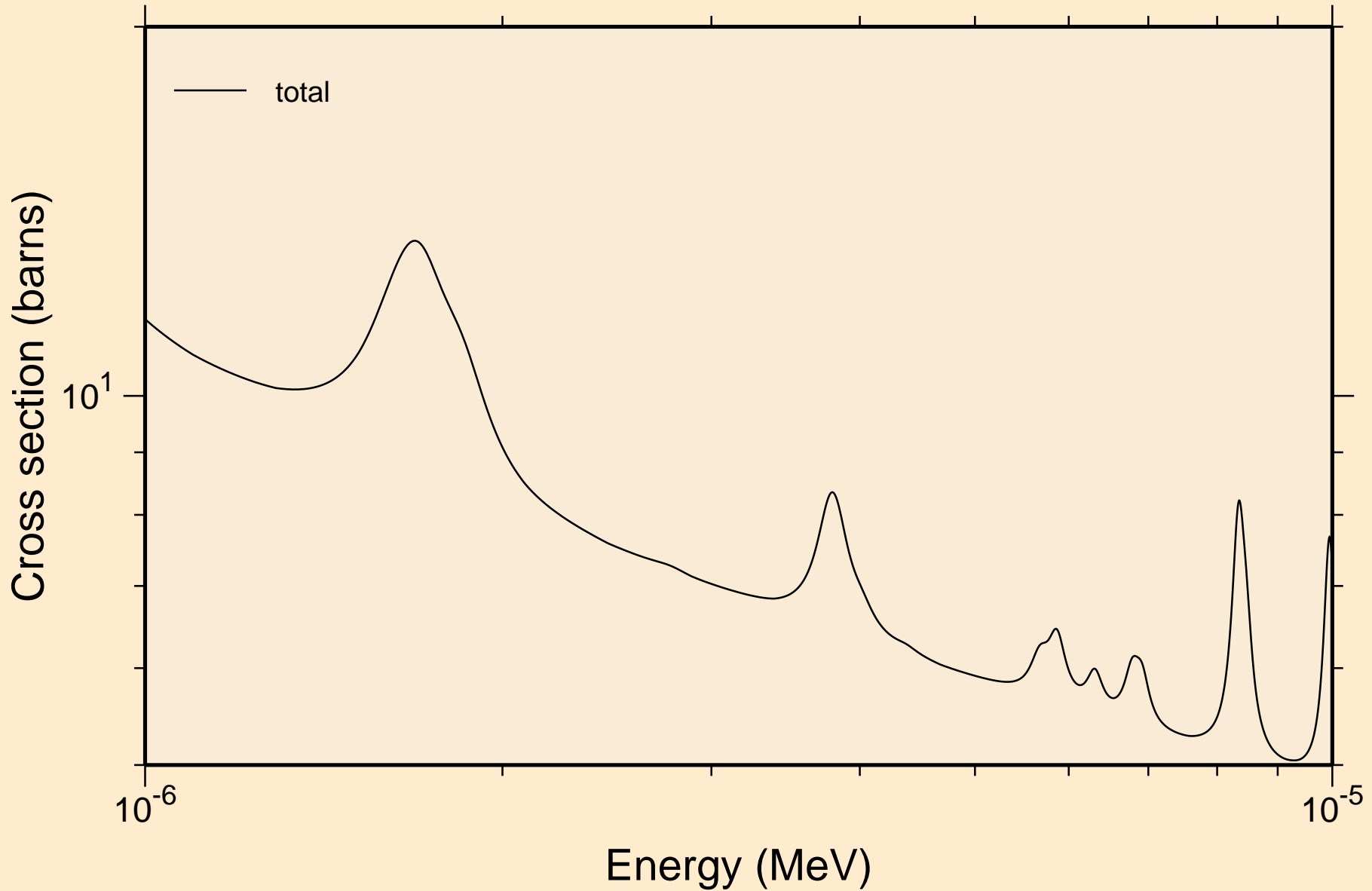


# ND137M NEUTRON ACER TENDL-2024 LIBRARY; T=0.K

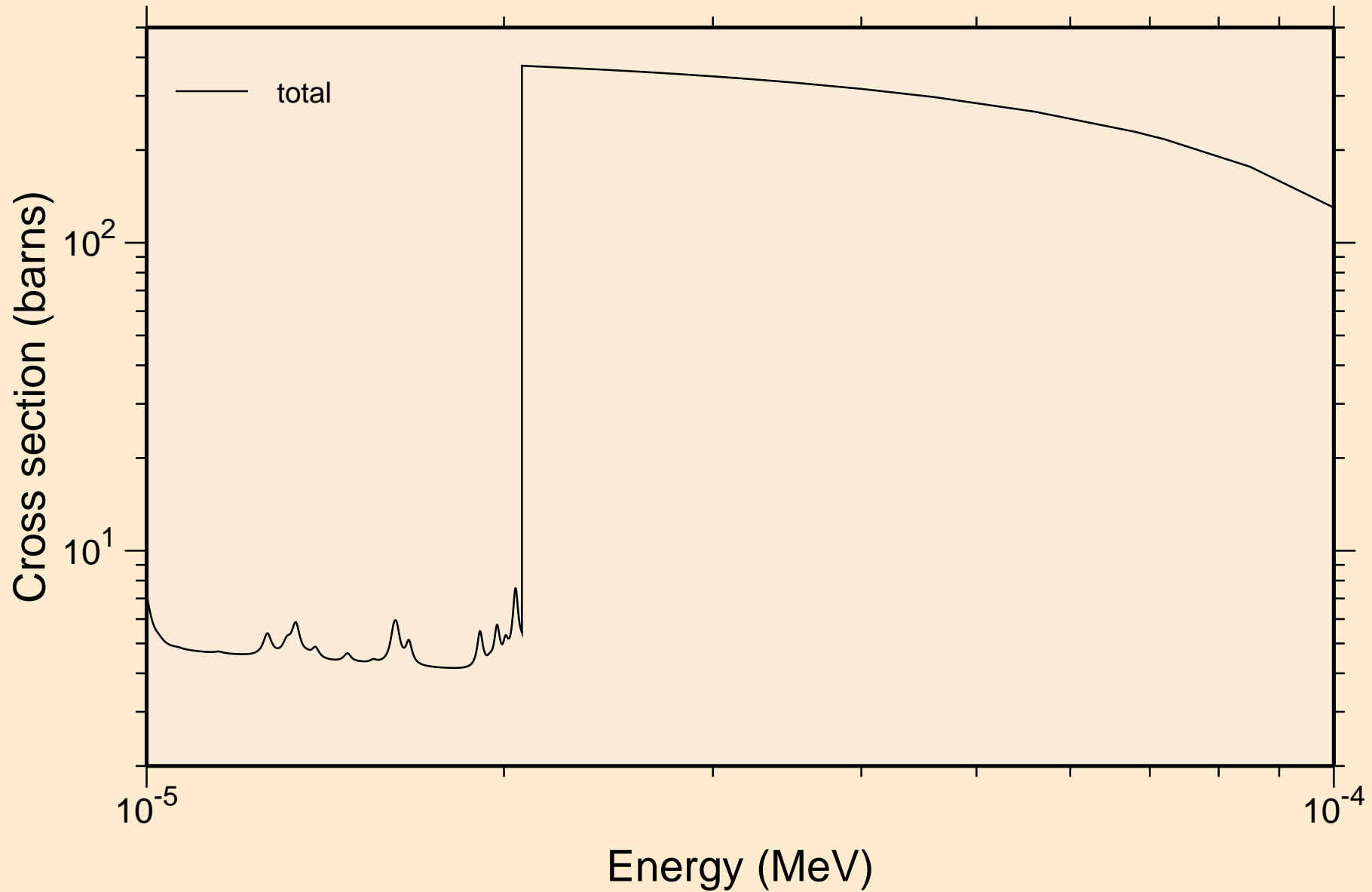
## Principal cross sections



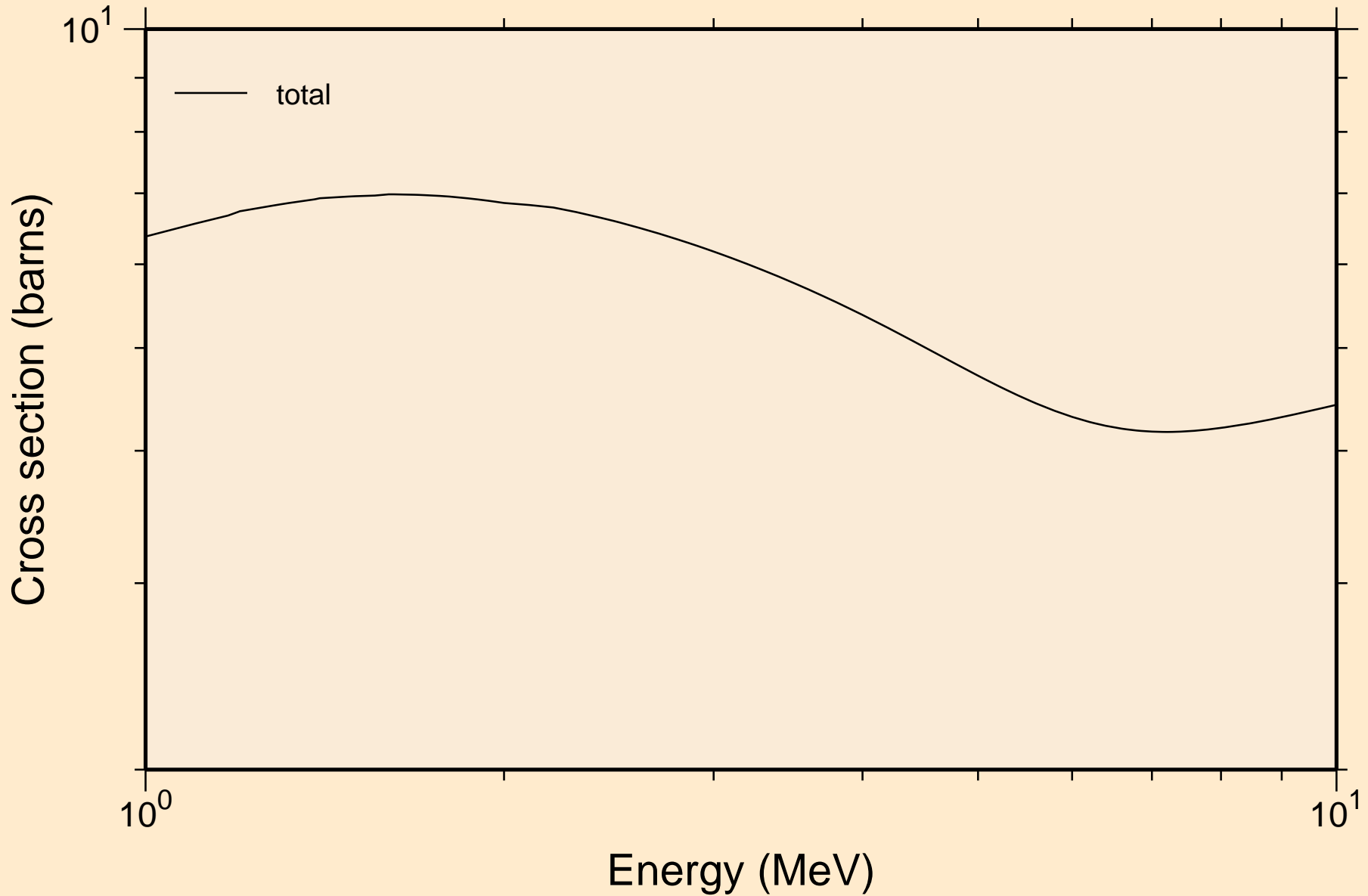
ND137M NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
resonance total cross section



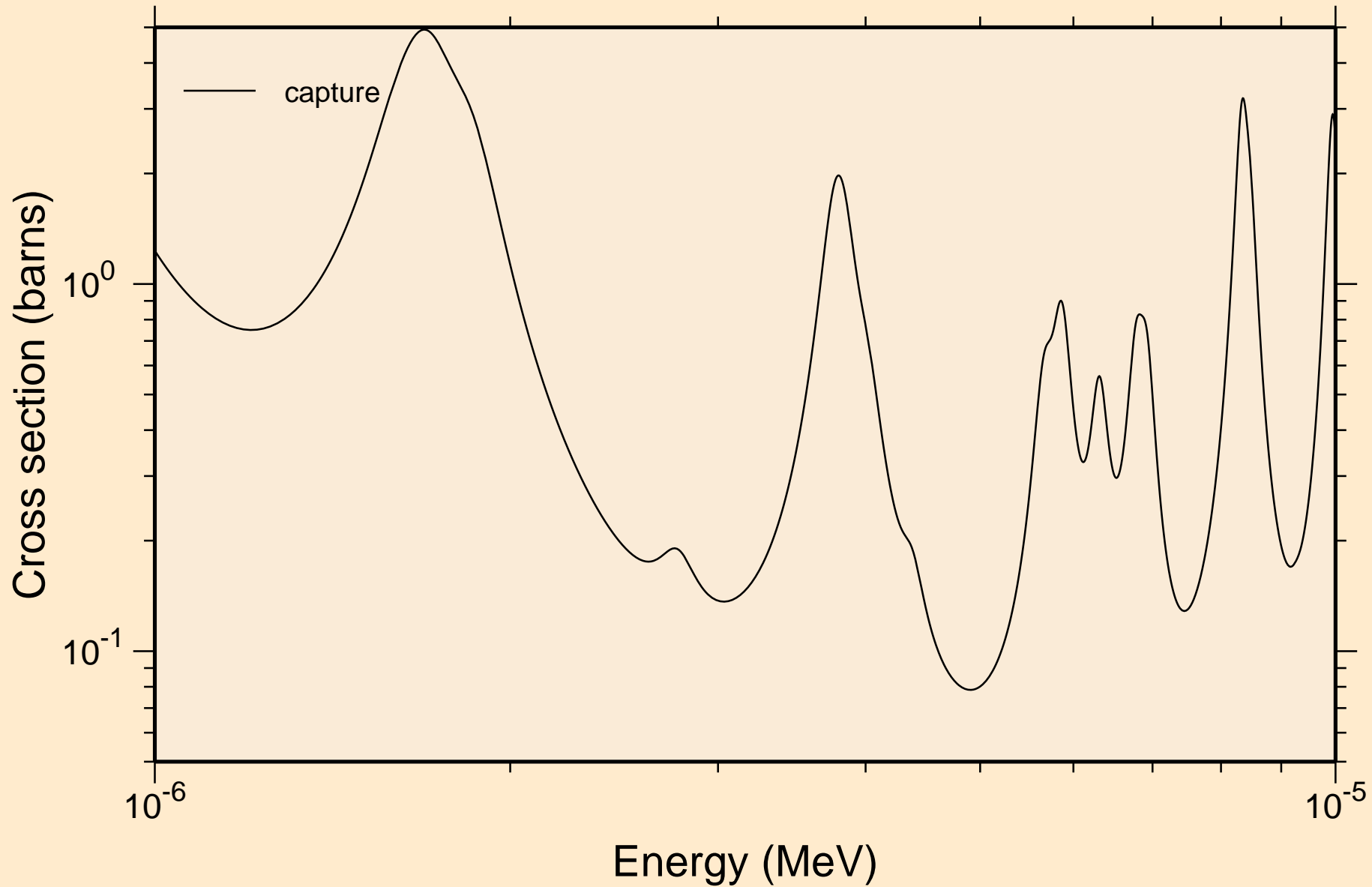
ND137M NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
resonance total cross section



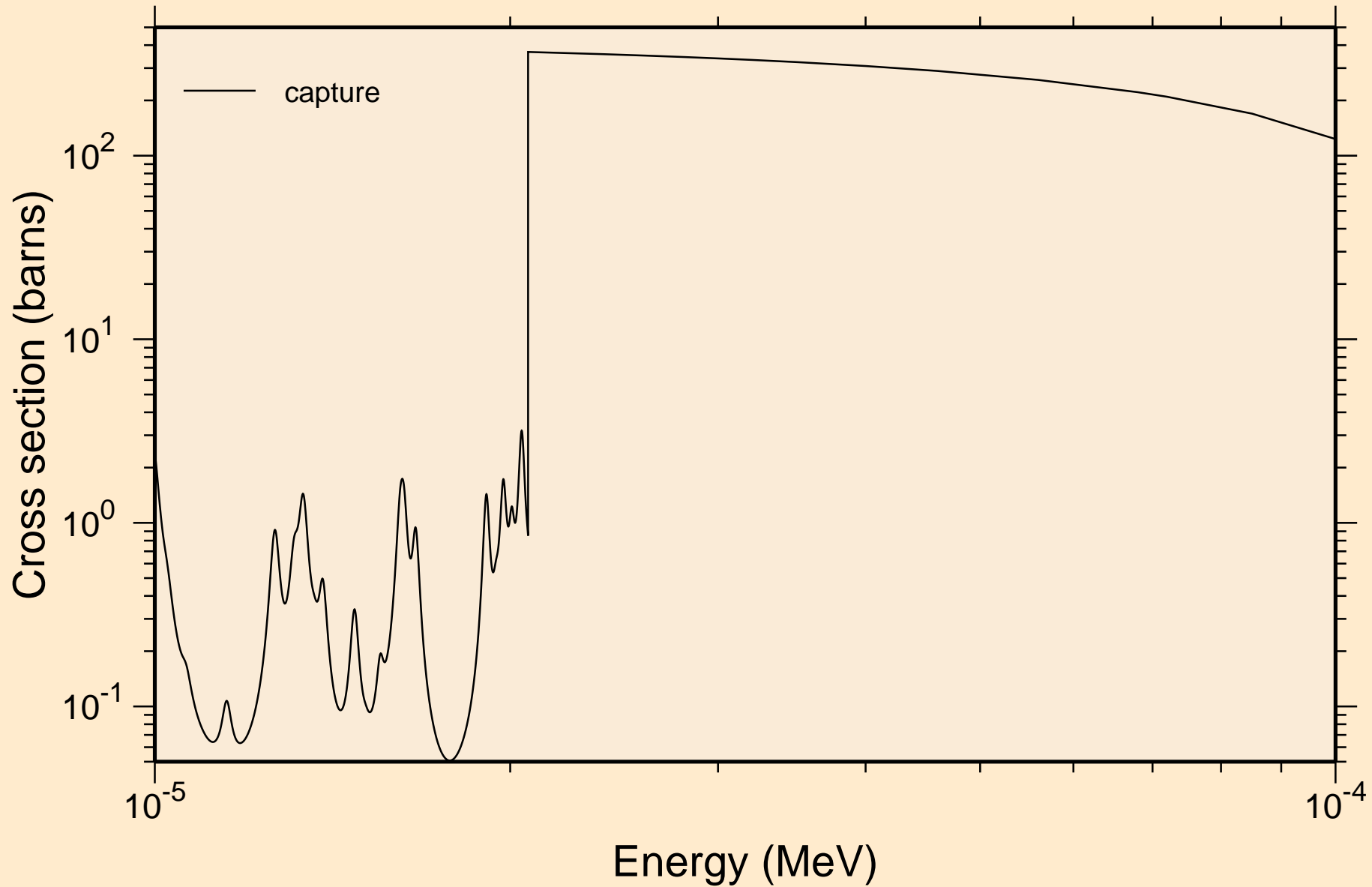
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resonance total cross section



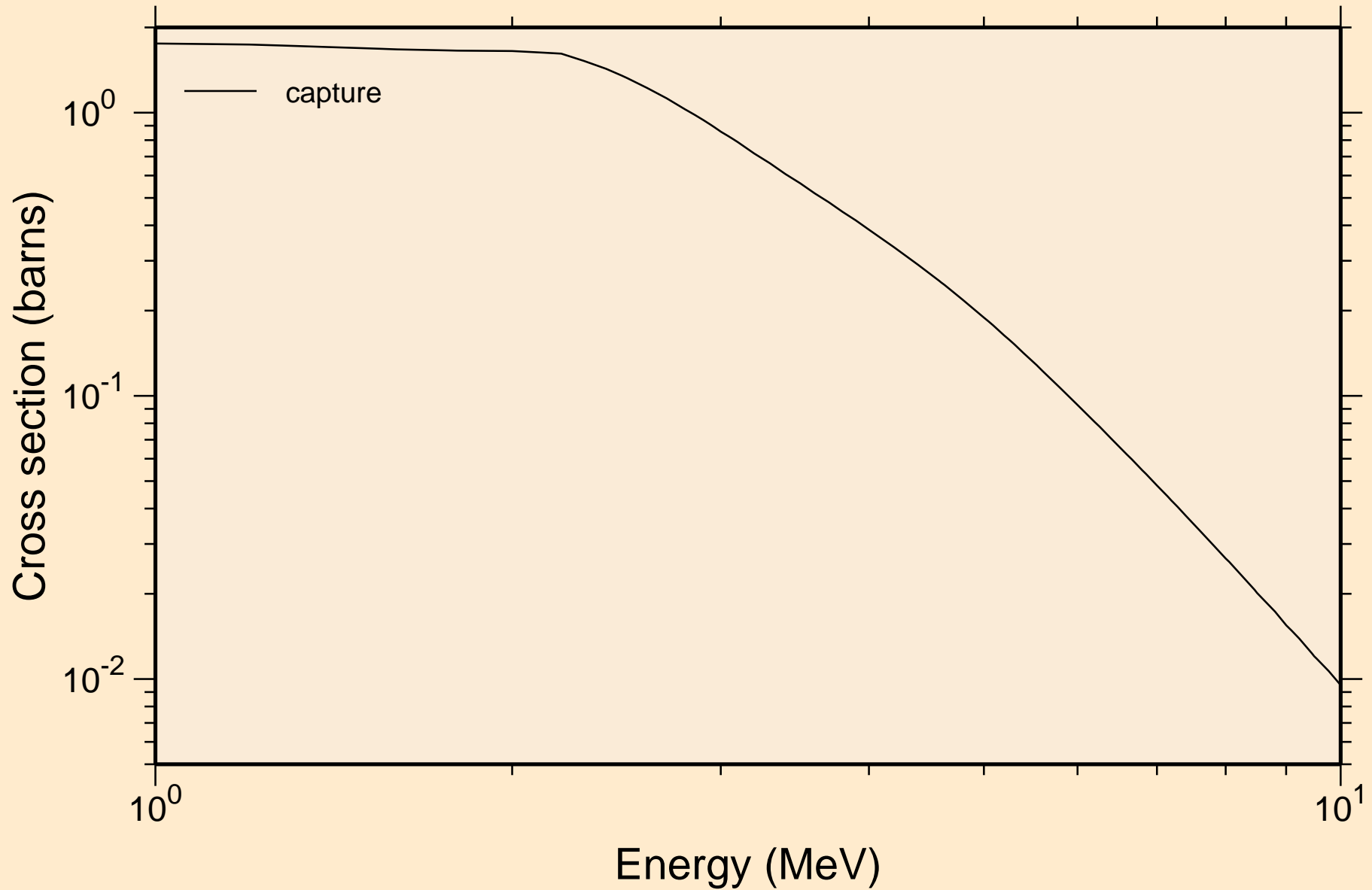
ND137M NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
resonance absorption cross sections



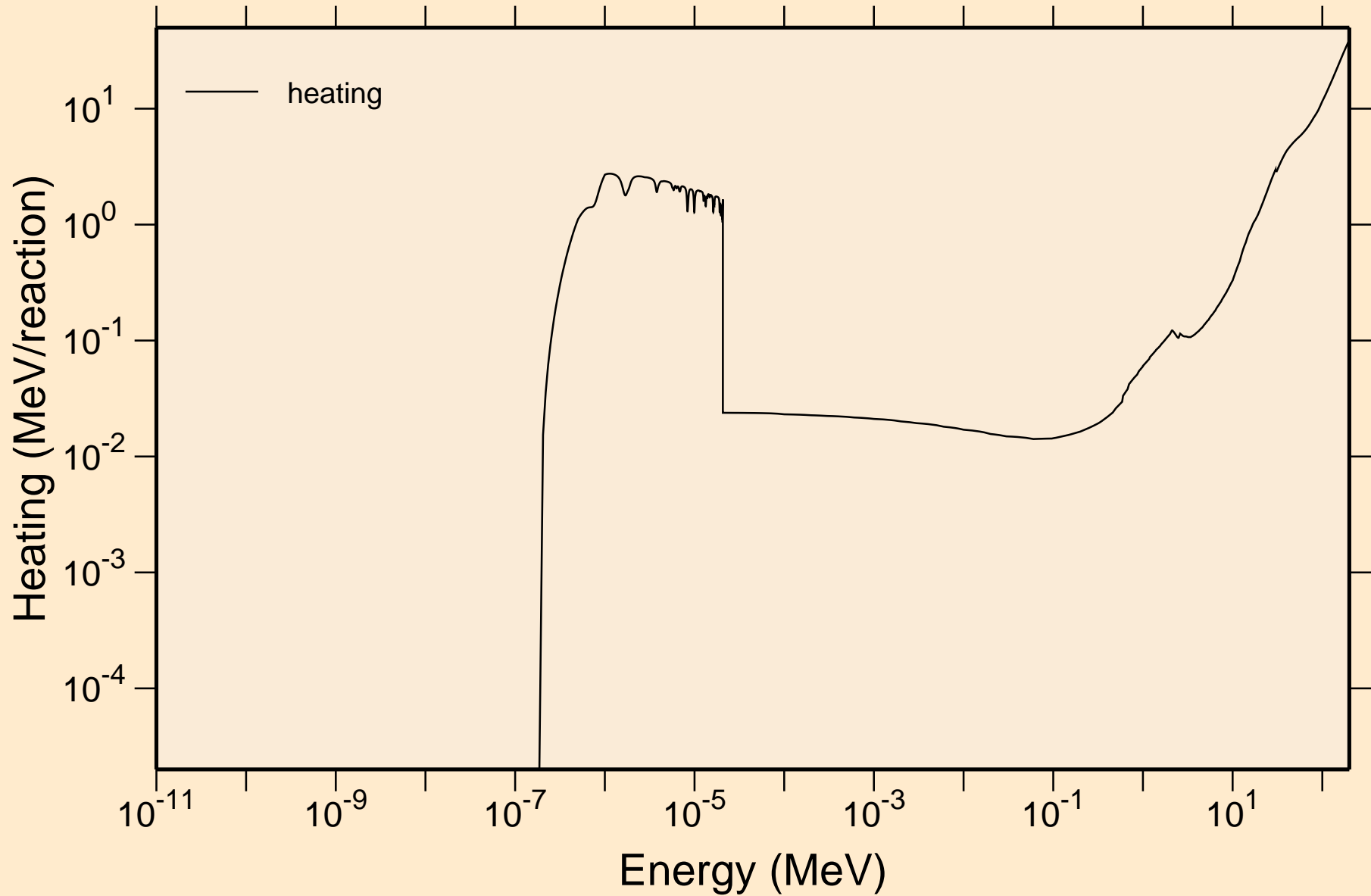
ND137M NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
resonance absorption cross sections



ND137M NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
resonance absorption cross sections



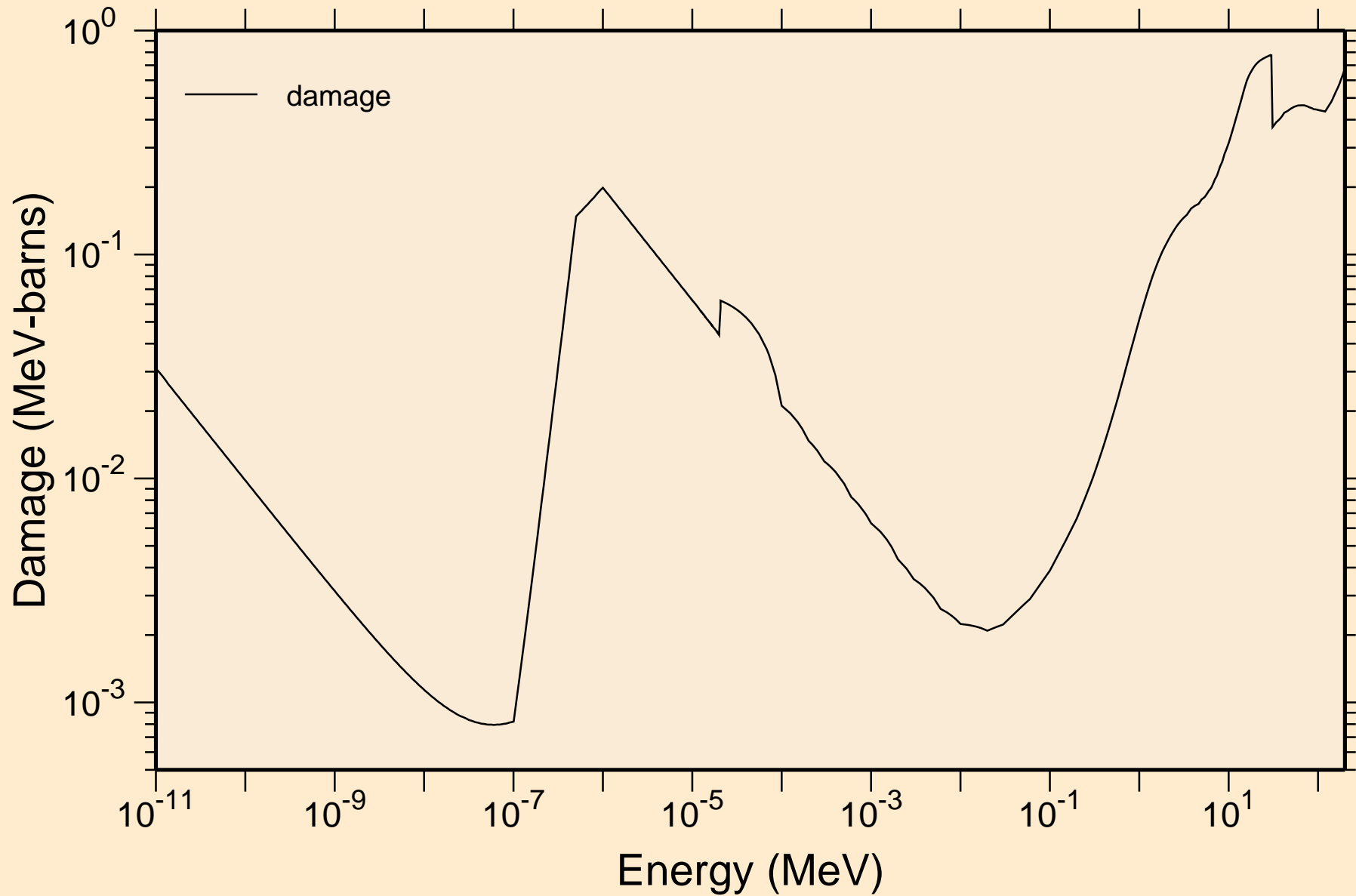
ND137M NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Heating





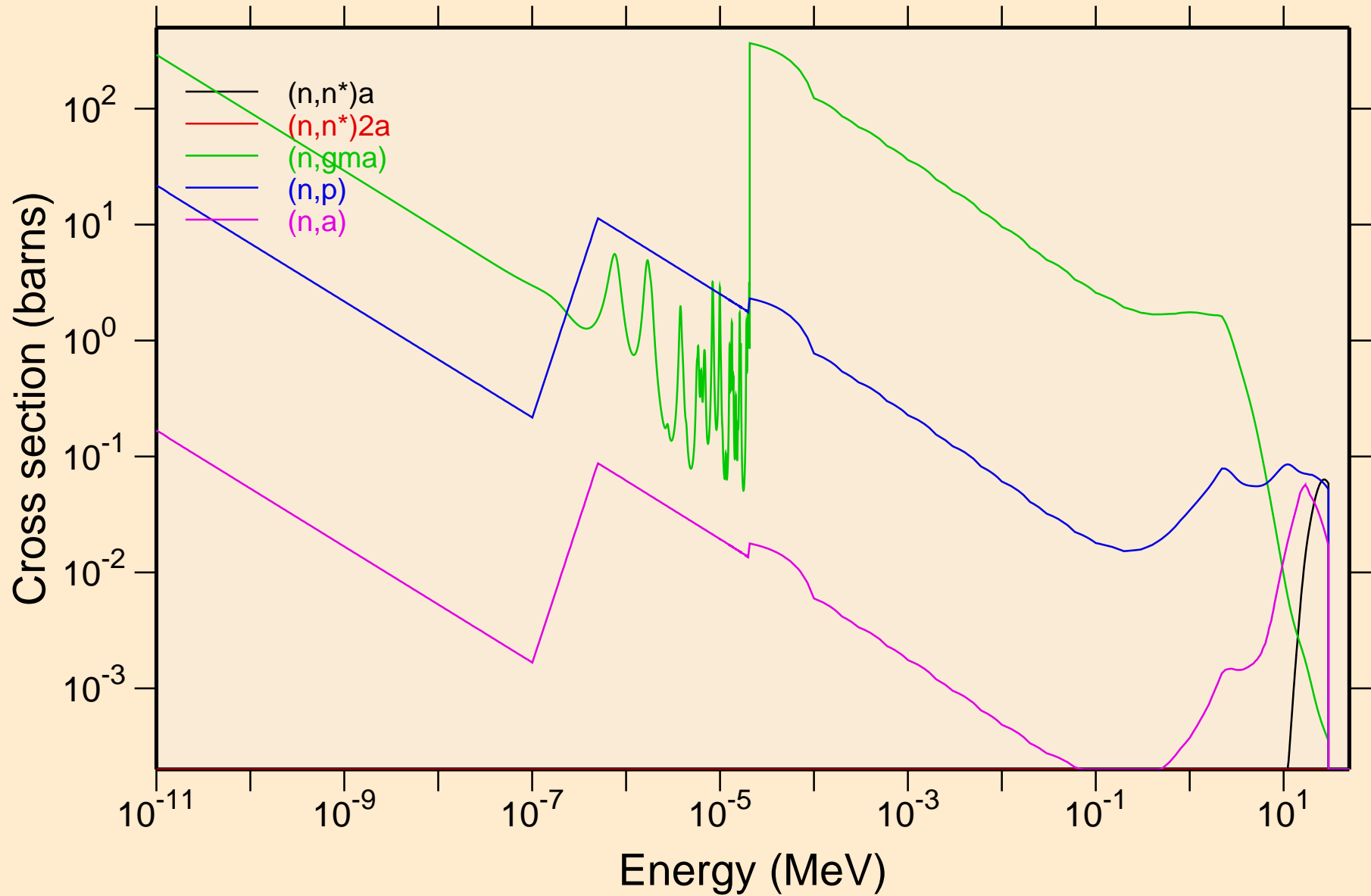
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## Damage



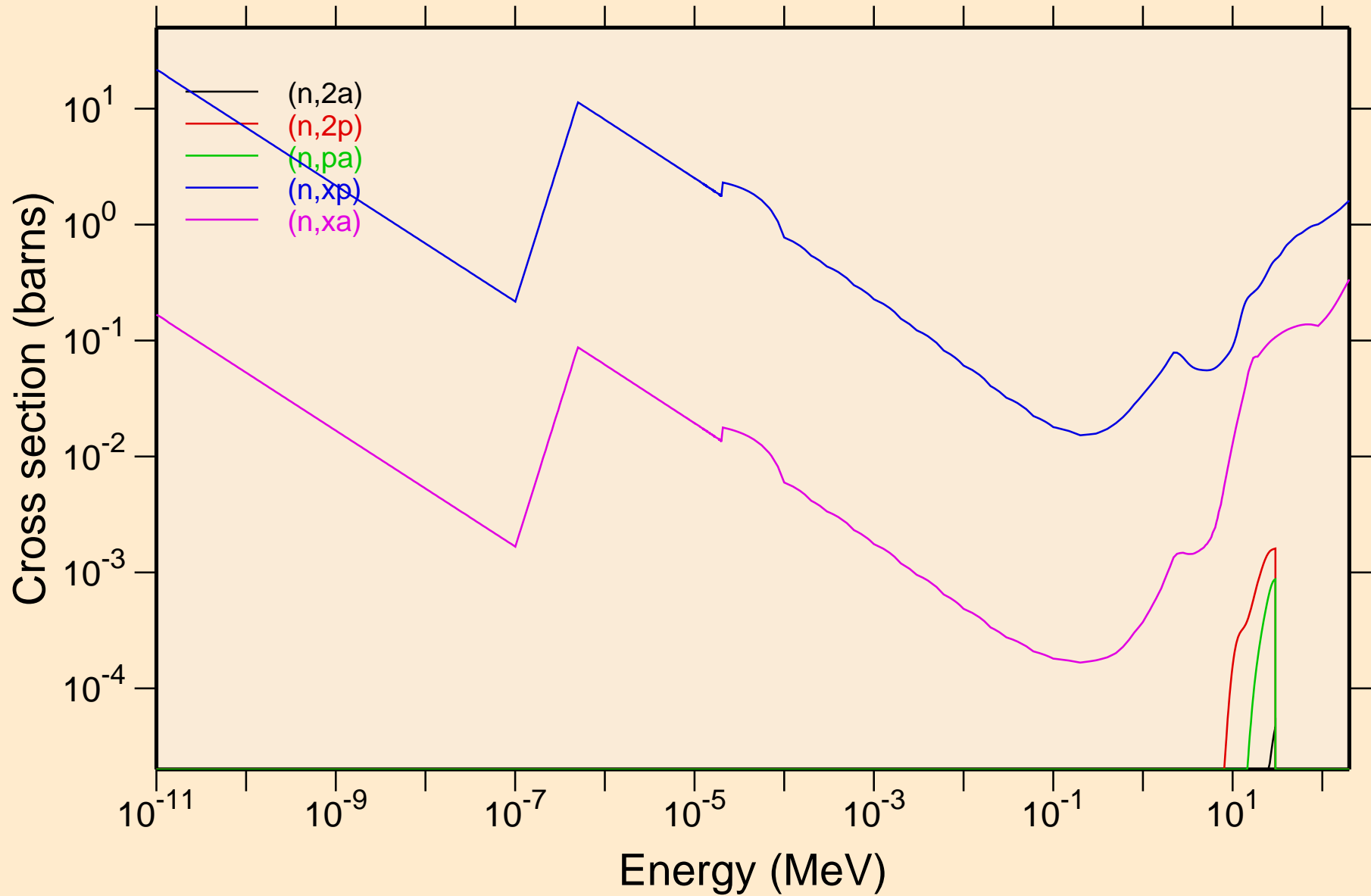
# ND137M NEUTRON ACER TENDL-2024 LIBRARY; T=0.K

## Non-threshold reactions



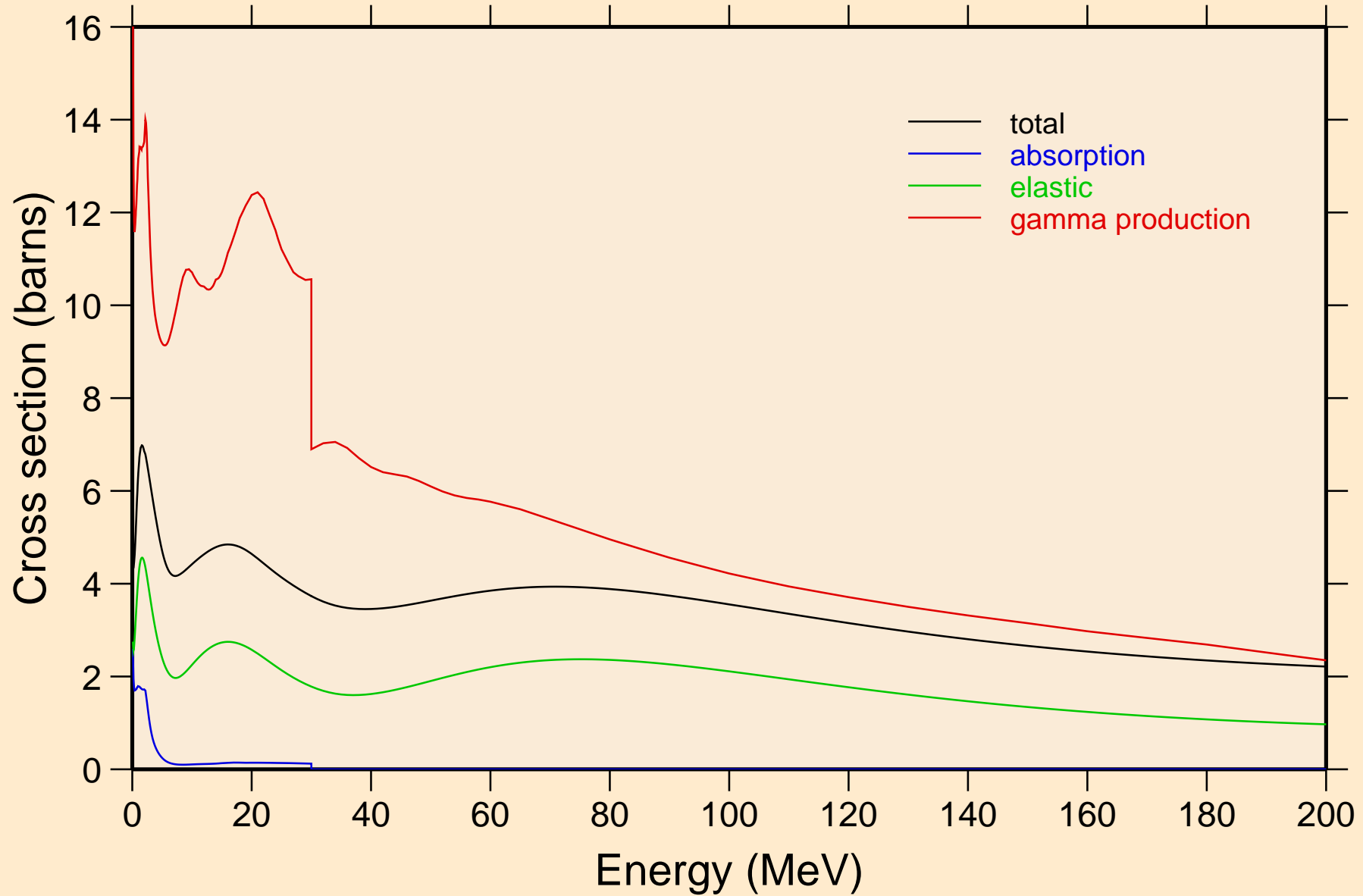
# ND137M NEUTRON ACER TENDL-2024 LIBRARY; T=0.K

## Non-threshold reactions



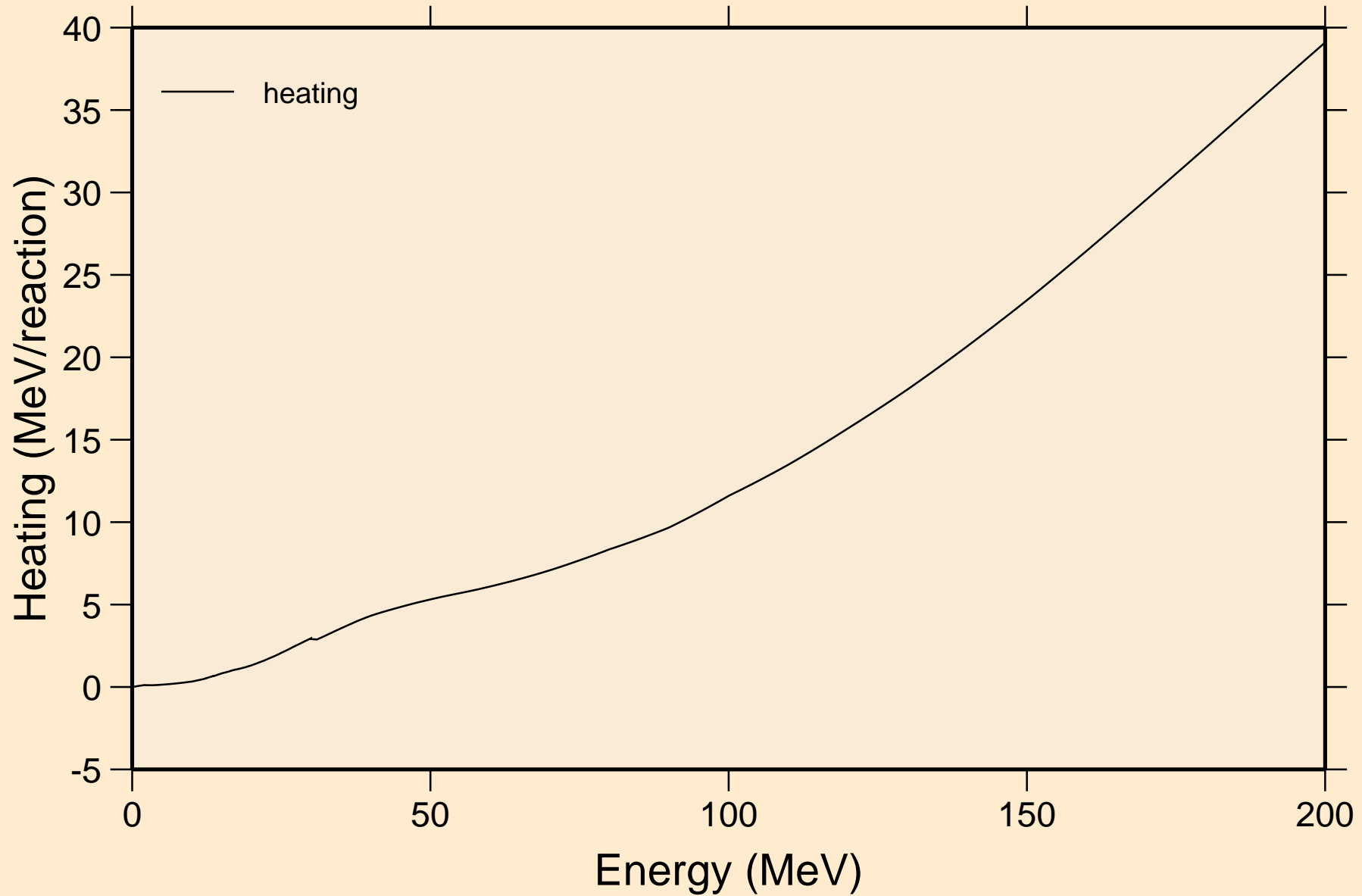
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## Principal cross sections



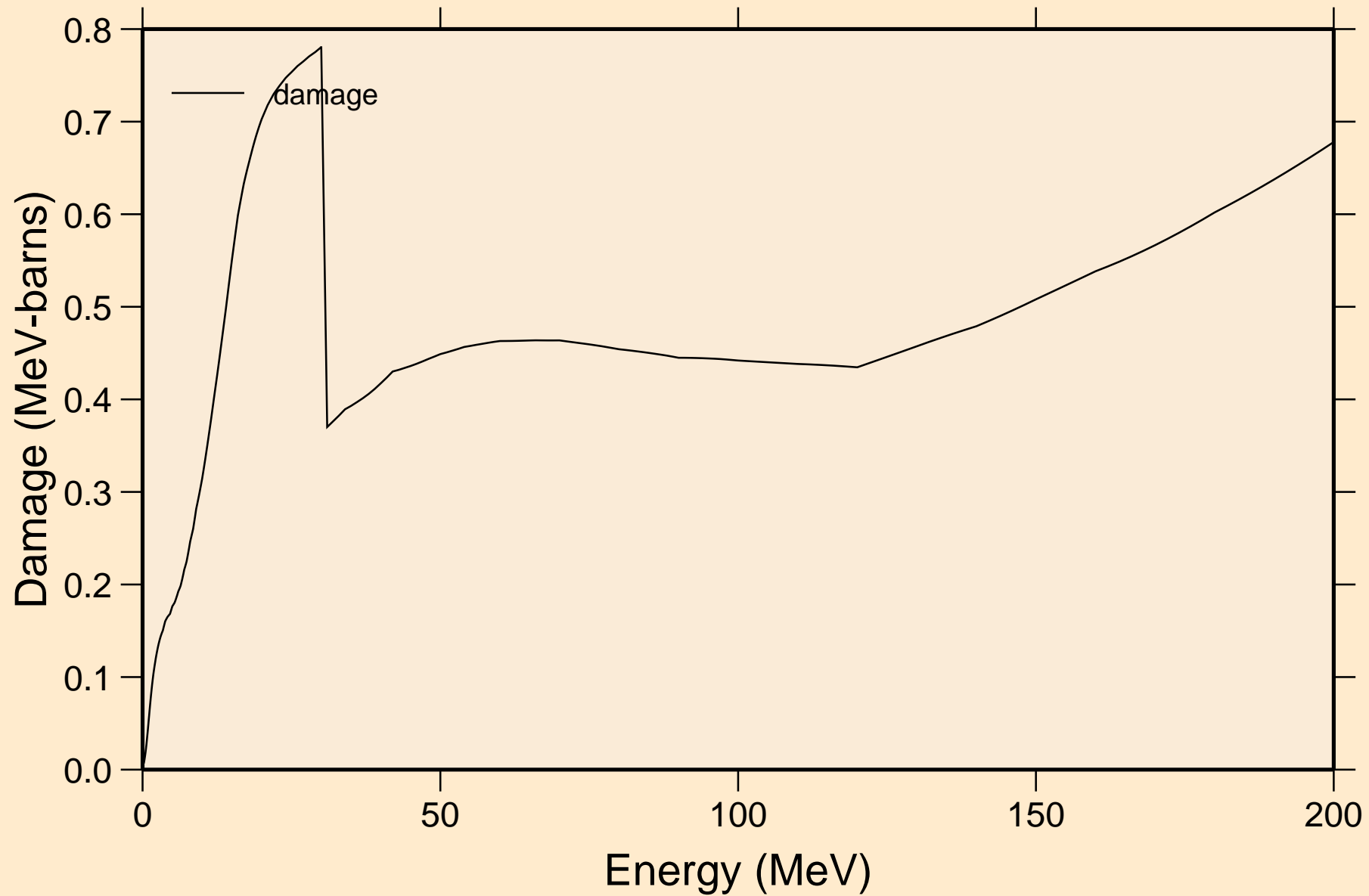
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## Heating



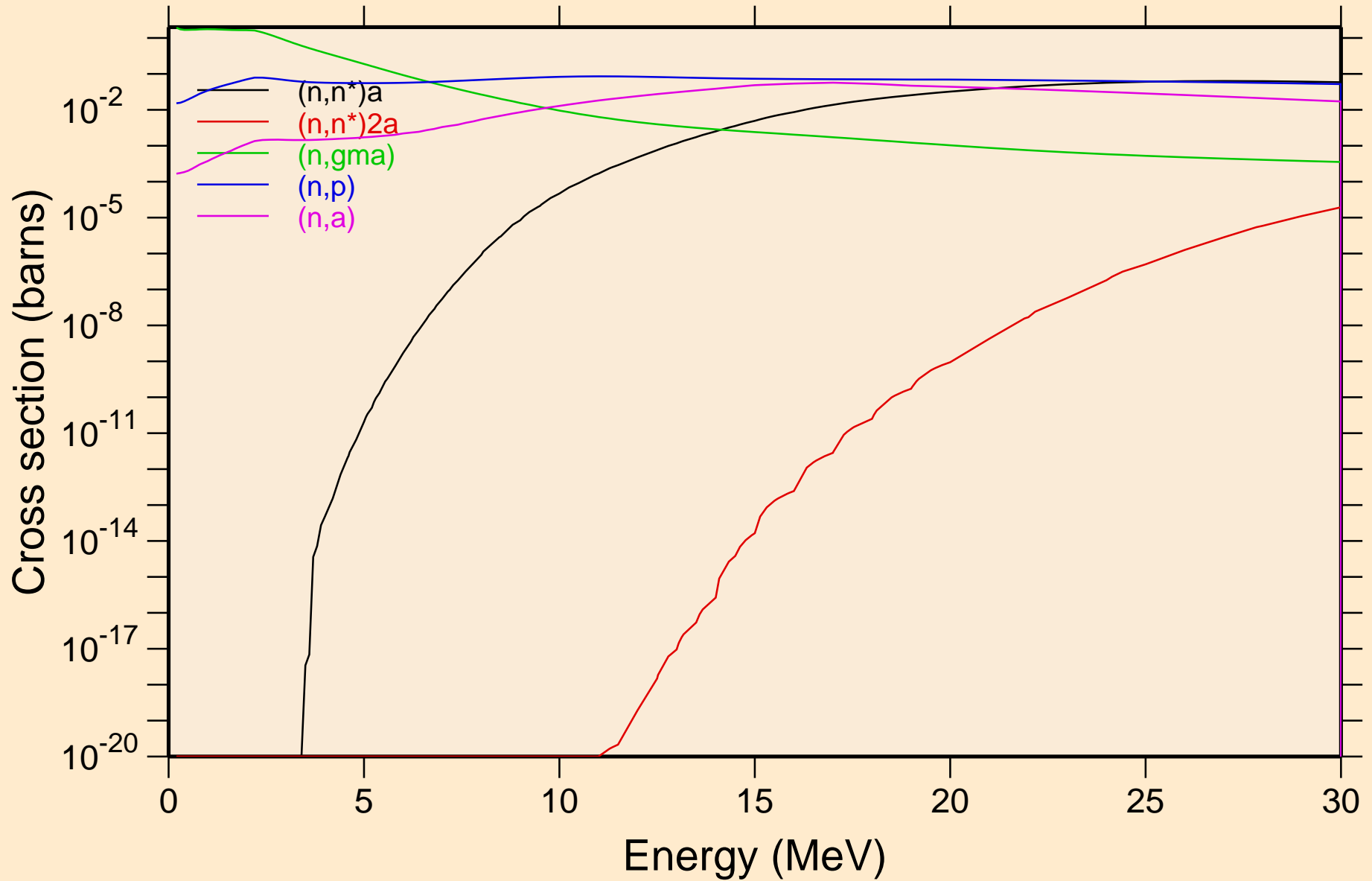
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## Damage

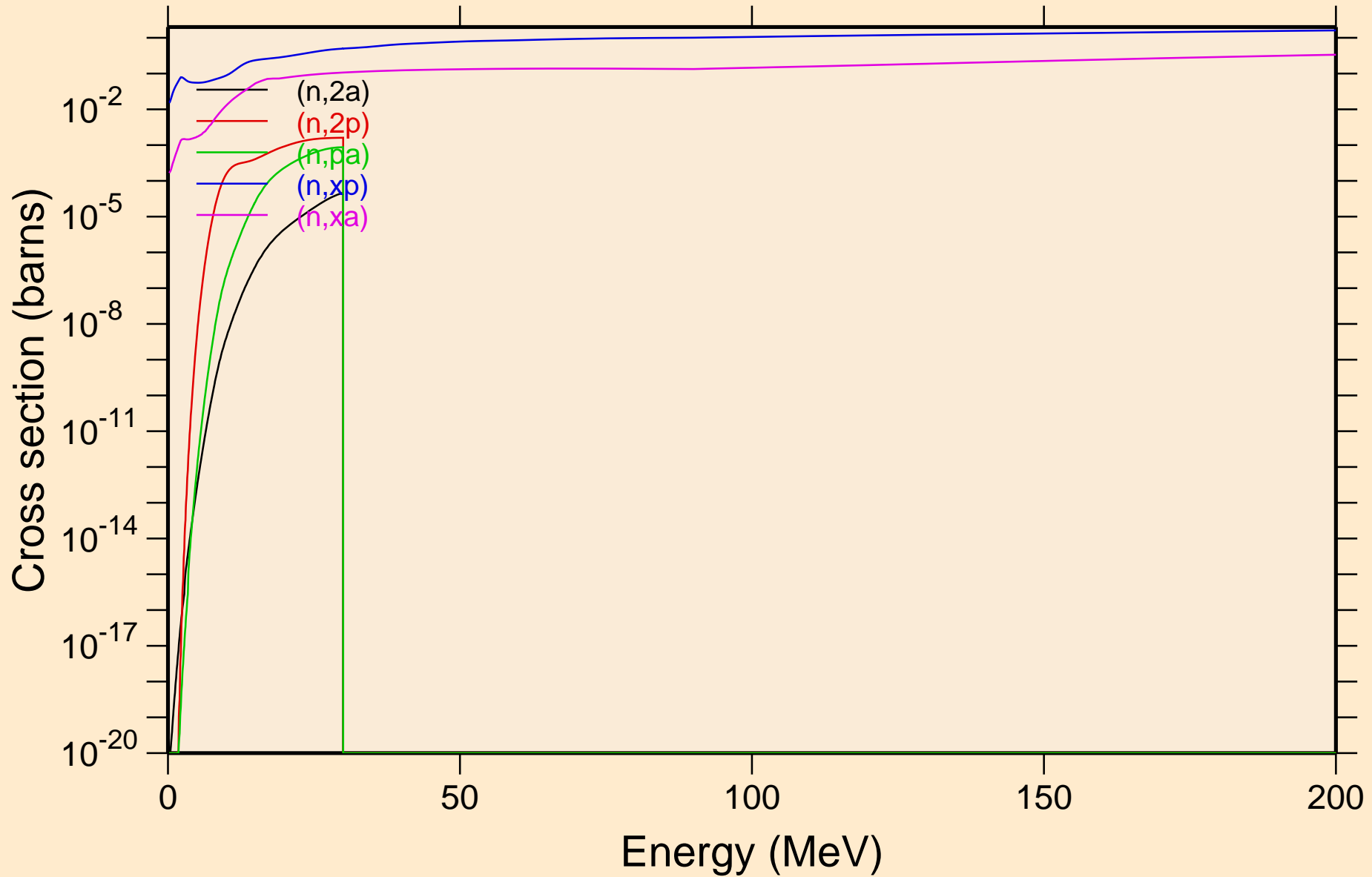


# ND137M NEUTRON ACER TENDL-2024 LIBRARY; T=0.K

## Non-threshold reactions

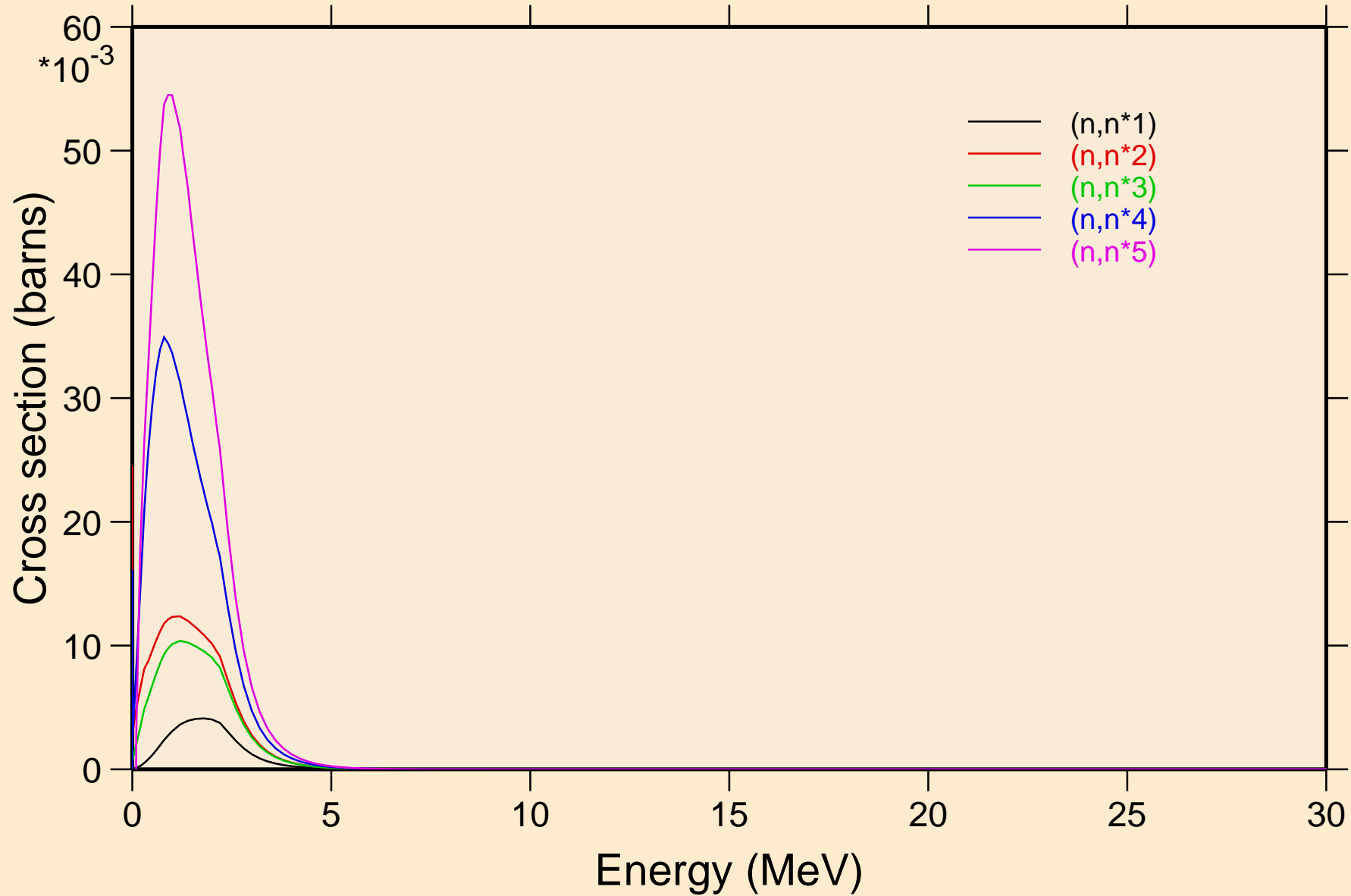


ND137M NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Non-threshold reactions

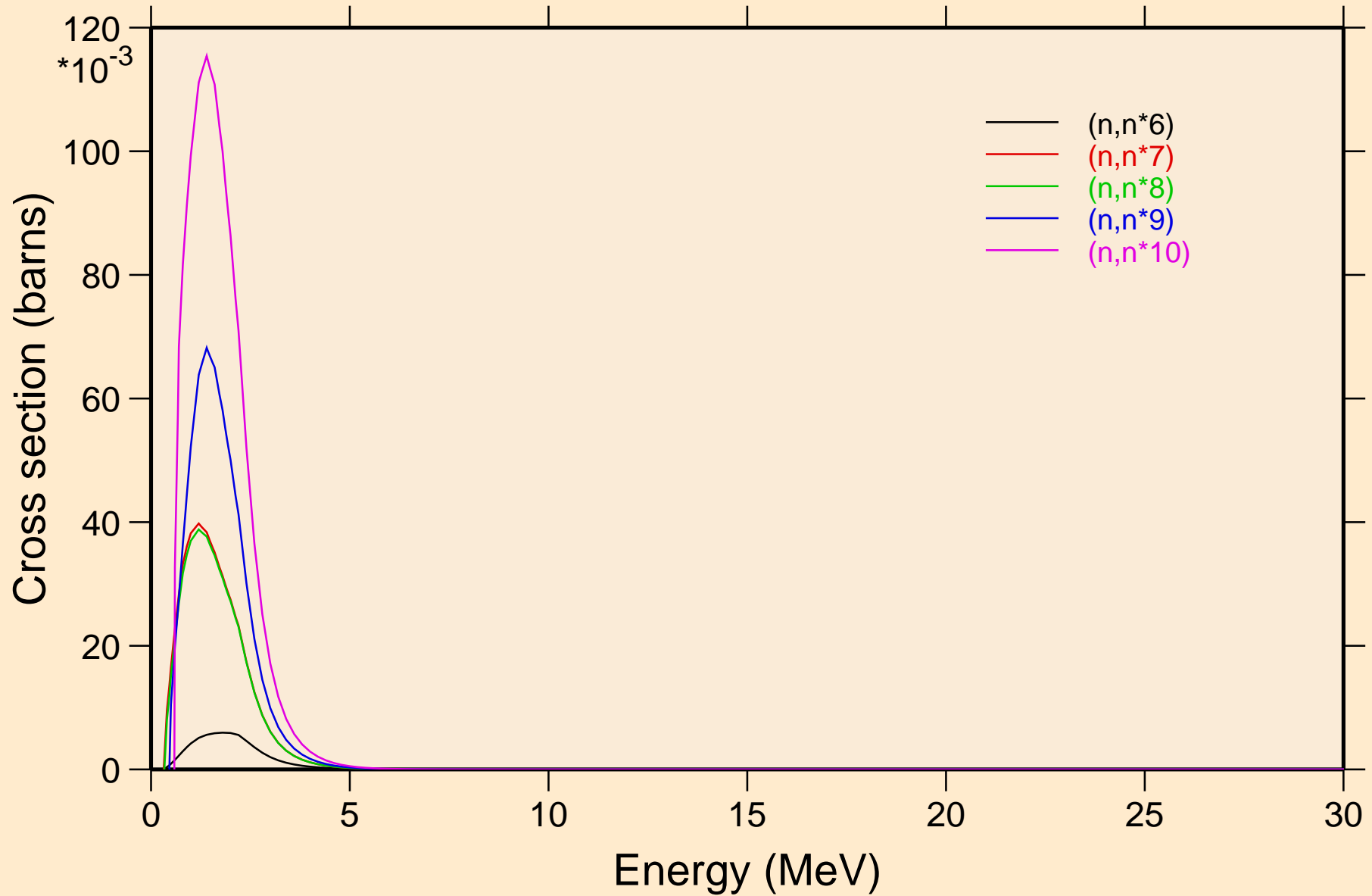




ND137M NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Inelastic levels

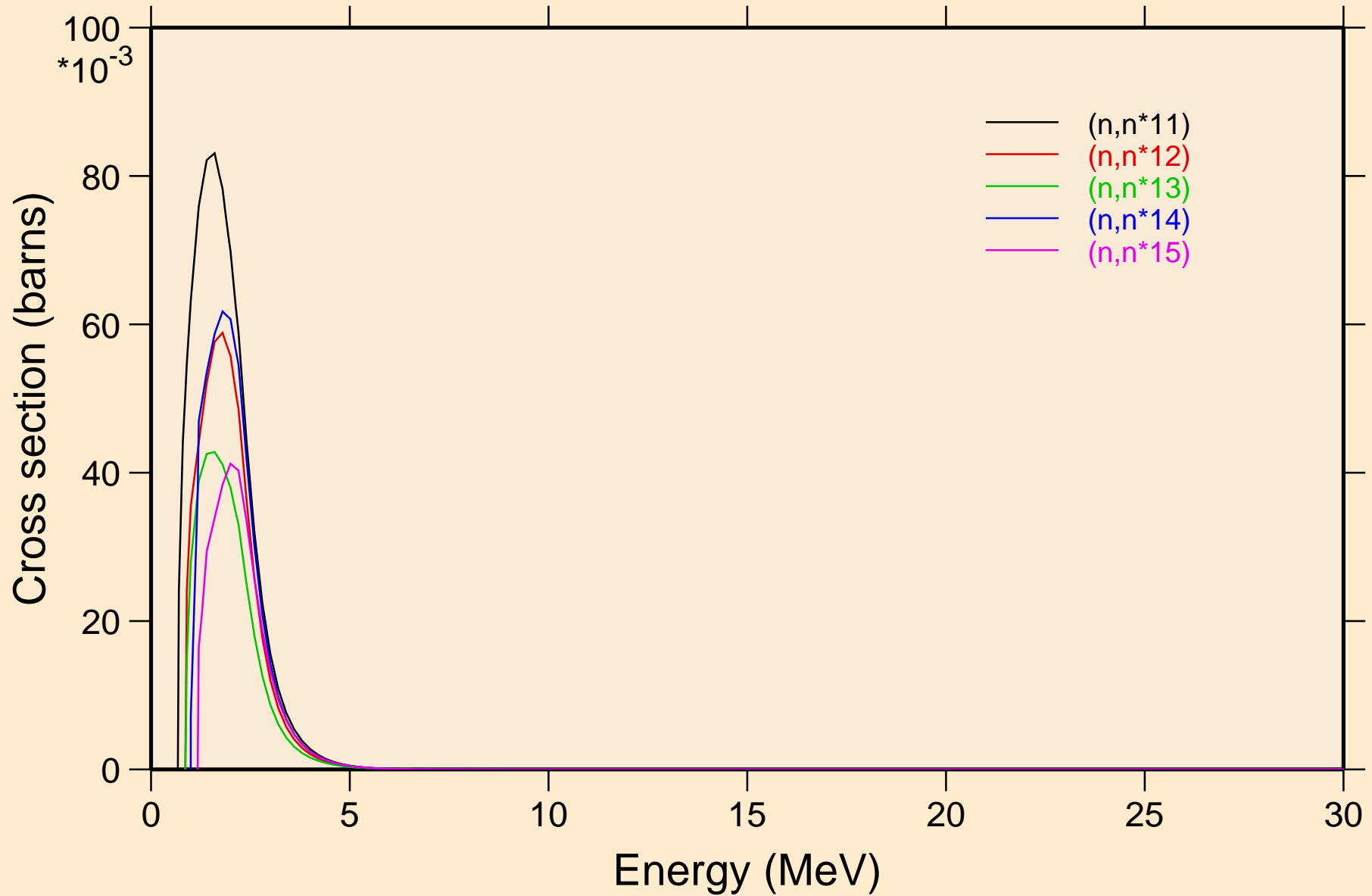


ND137M NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Inelastic levels



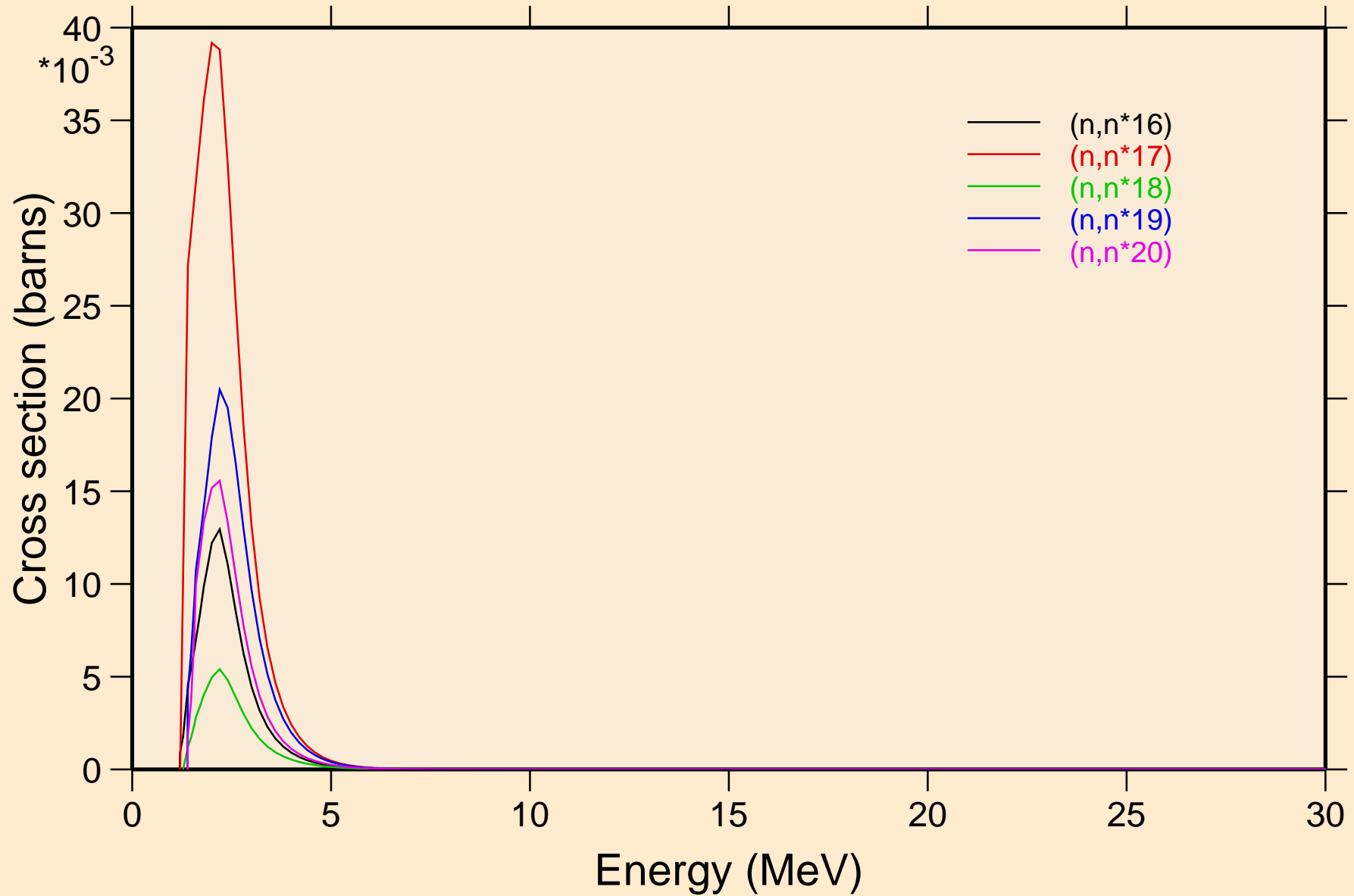
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## Inelastic levels

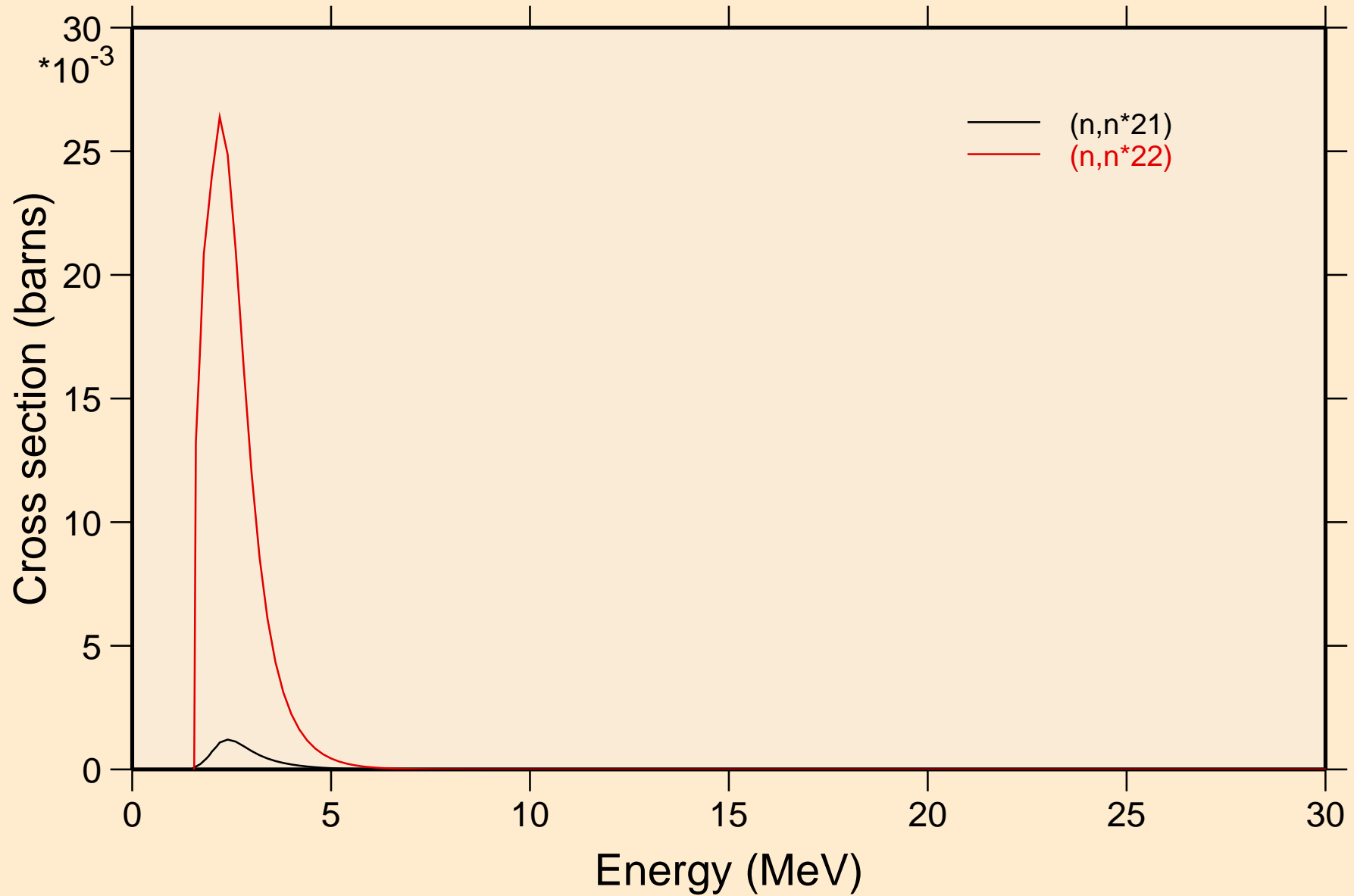


# ND137M NEUTRON ACER TENDL-2024 LIBRARY; T=0.K

## Inelastic levels

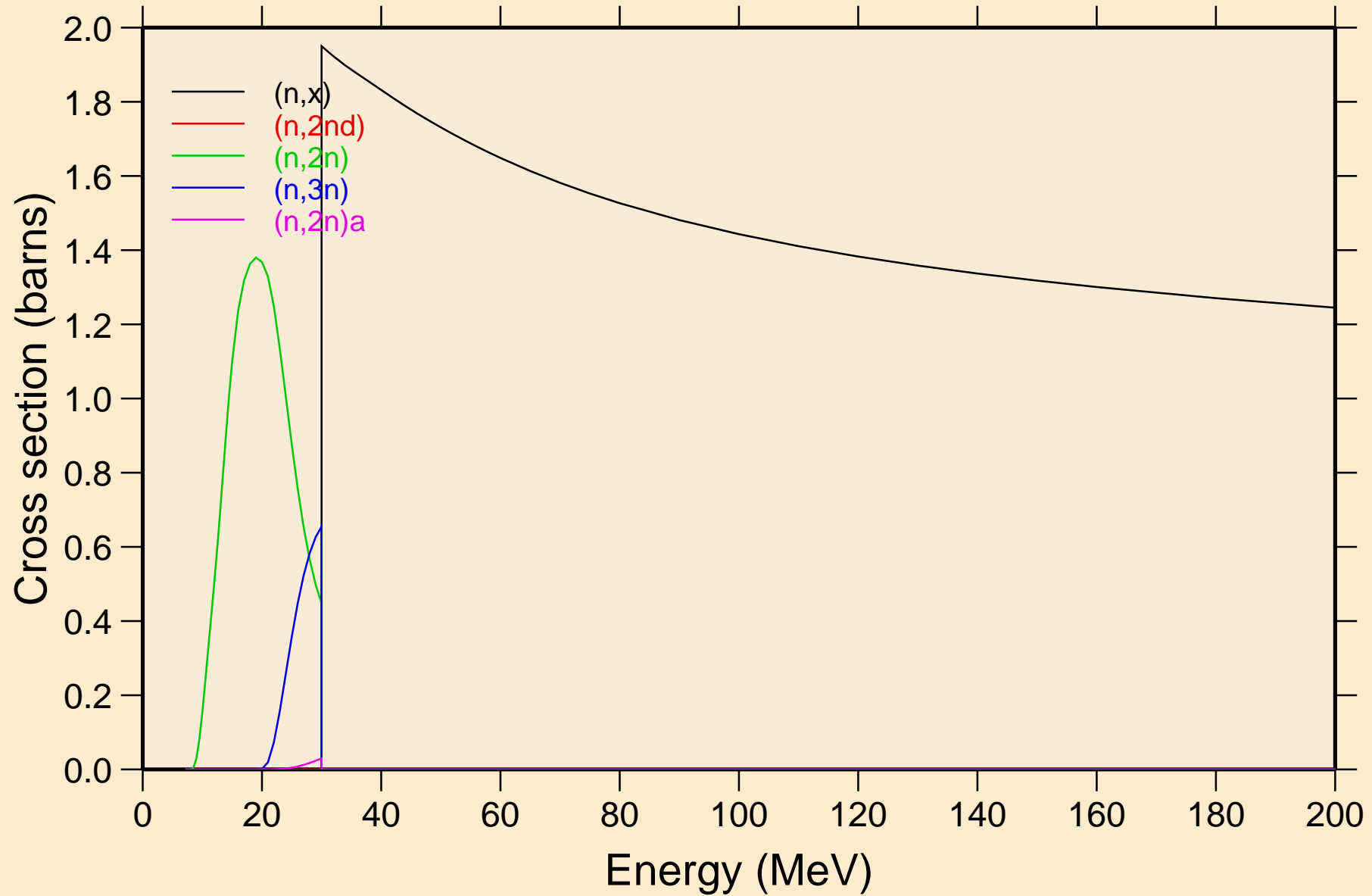


ND137M NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Inelastic levels



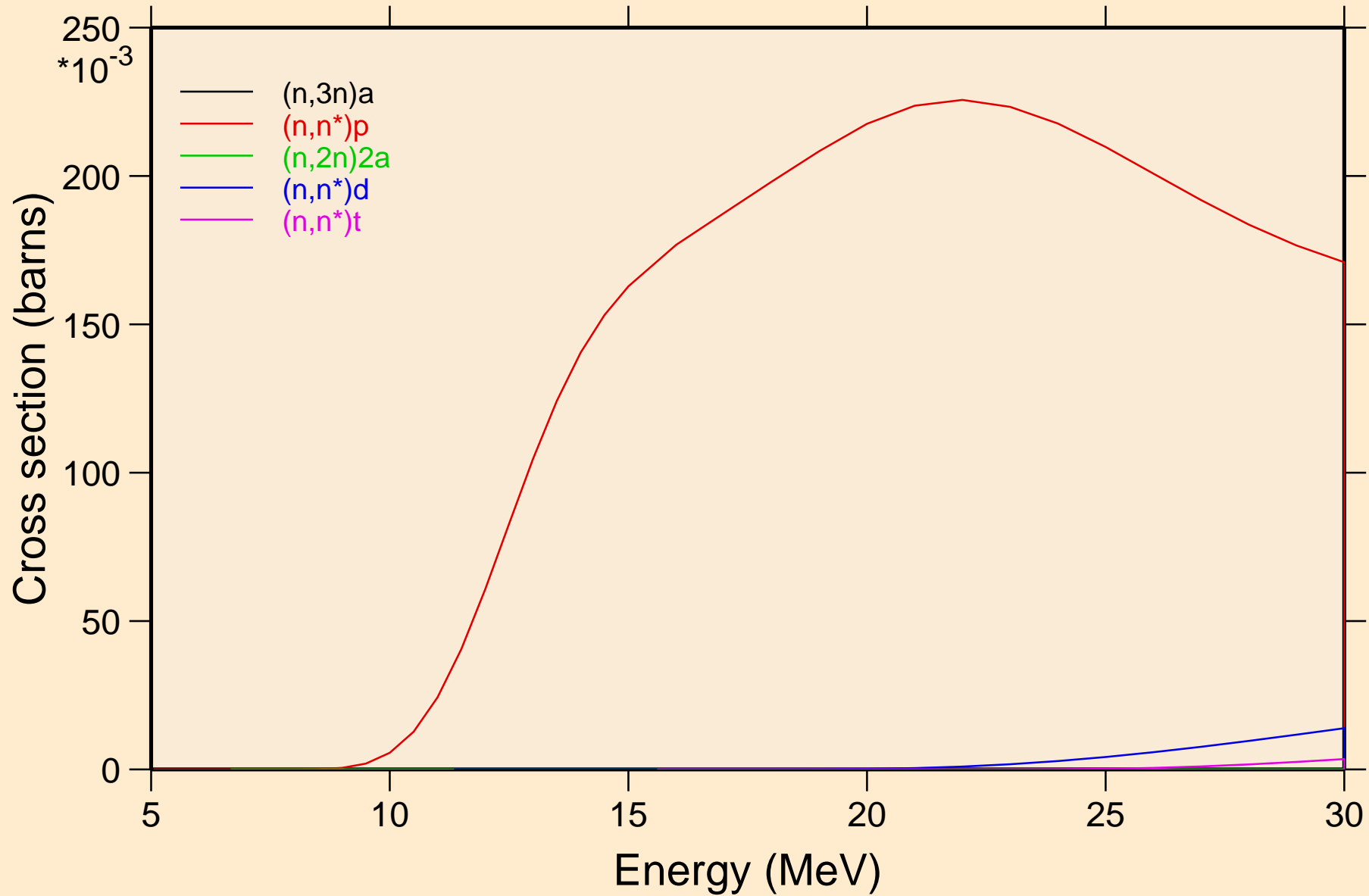
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## Threshold reactions



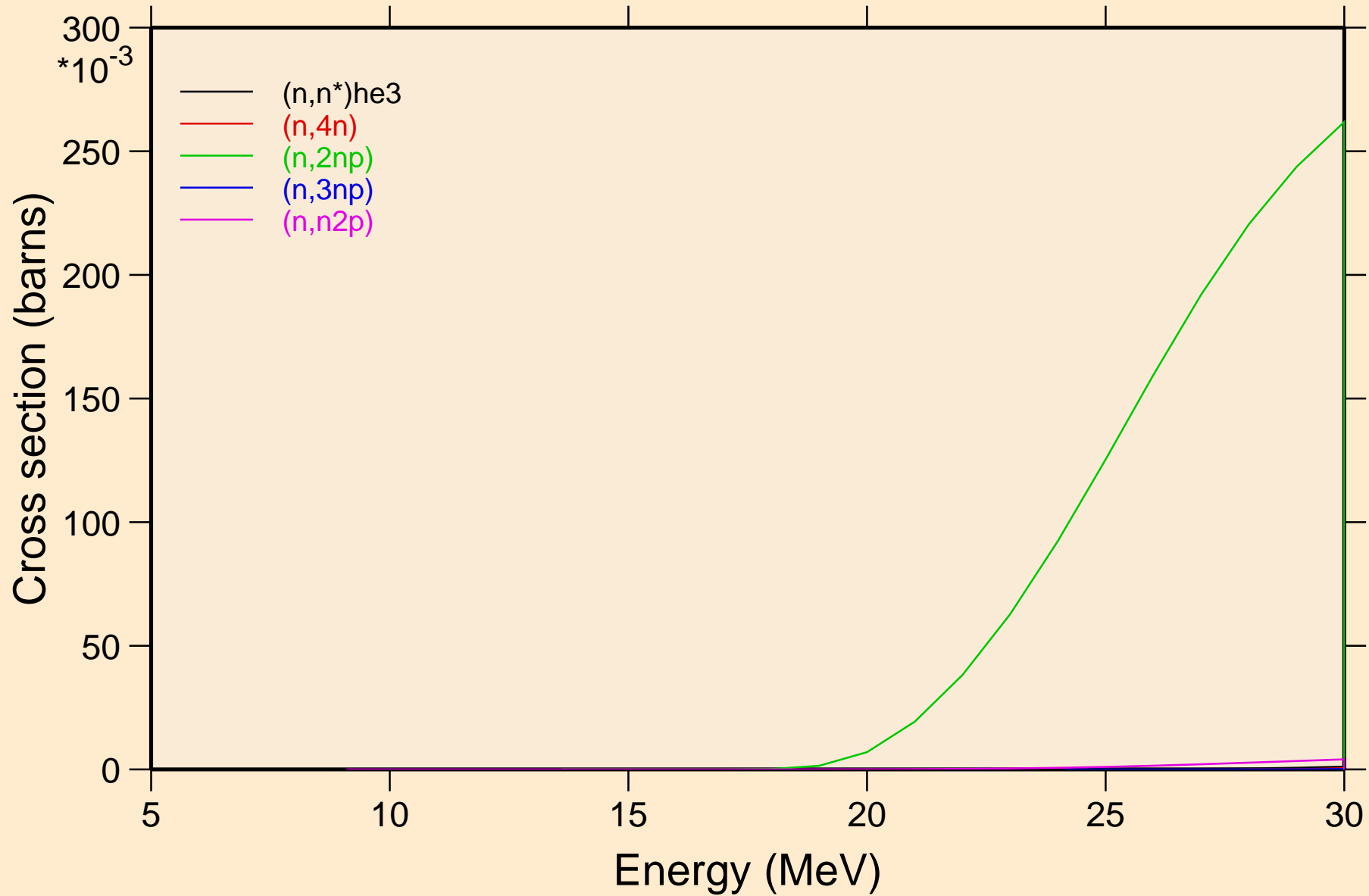
# ND137M NEUTRON ACER TENDL-2024 LIBRARY; T=0.K

## Threshold reactions



# ND137M NEUTRON ACER TENDL-2024 LIBRARY; T=0.K

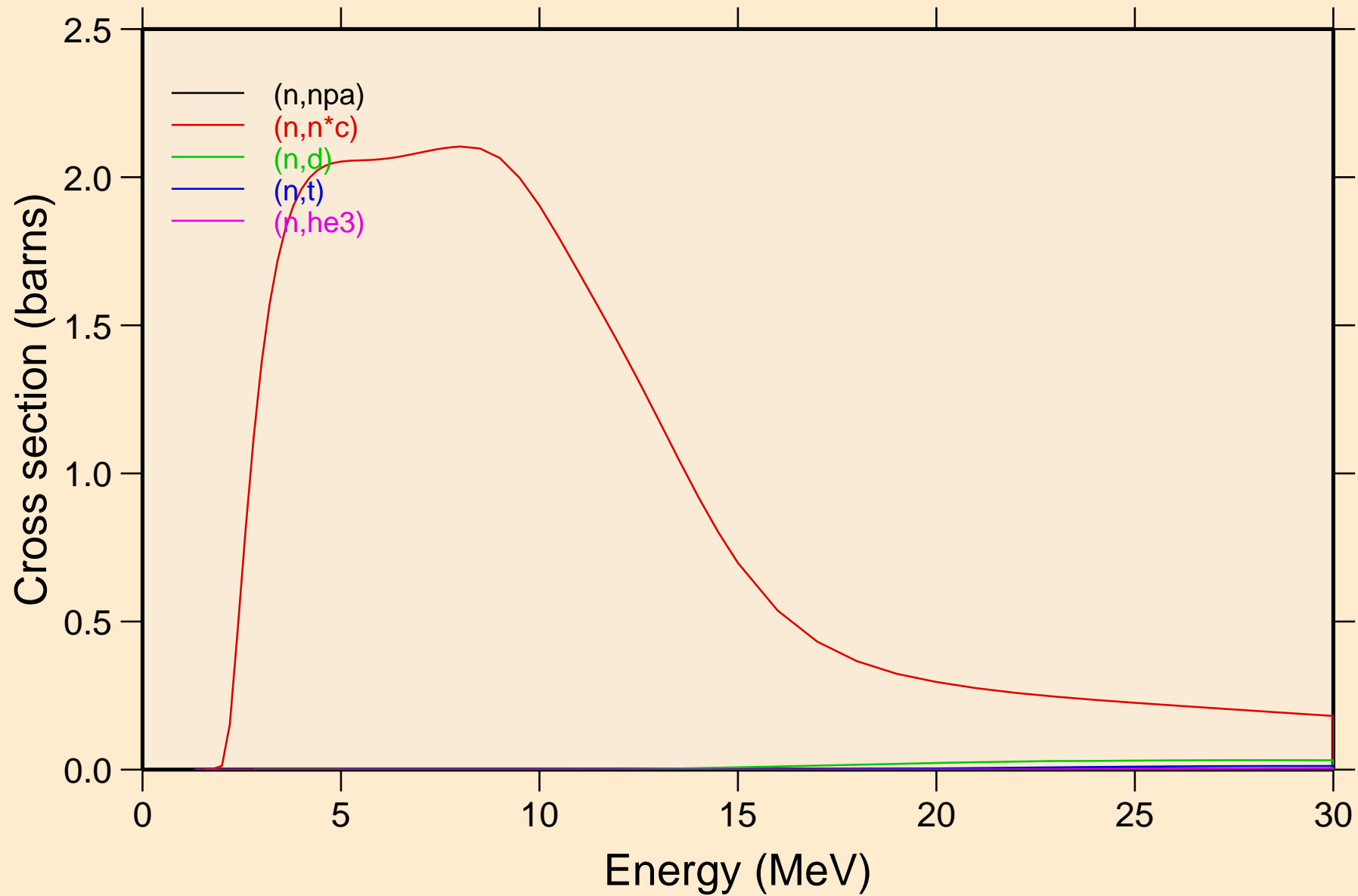
## Threshold reactions





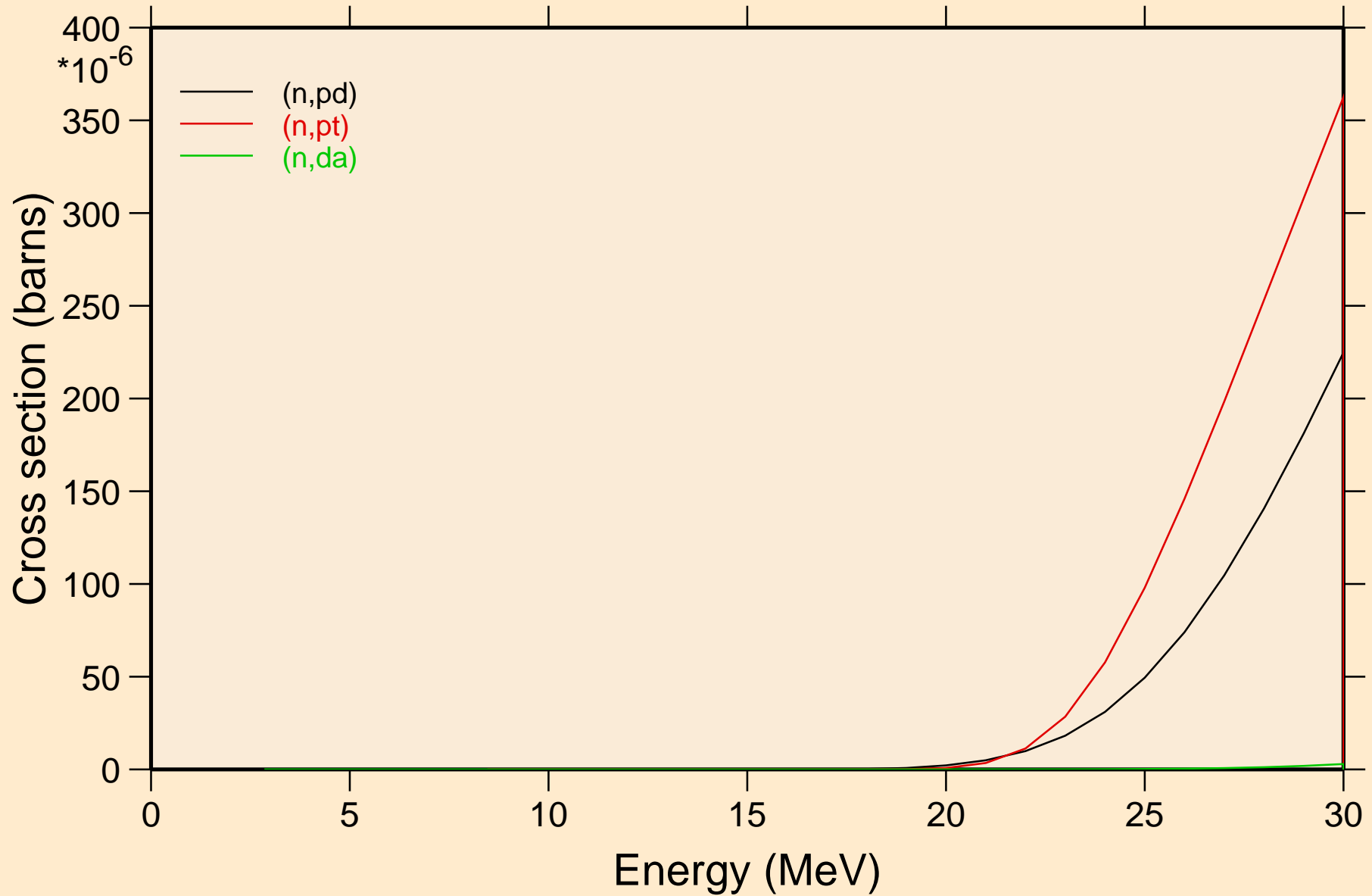
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## Threshold reactions



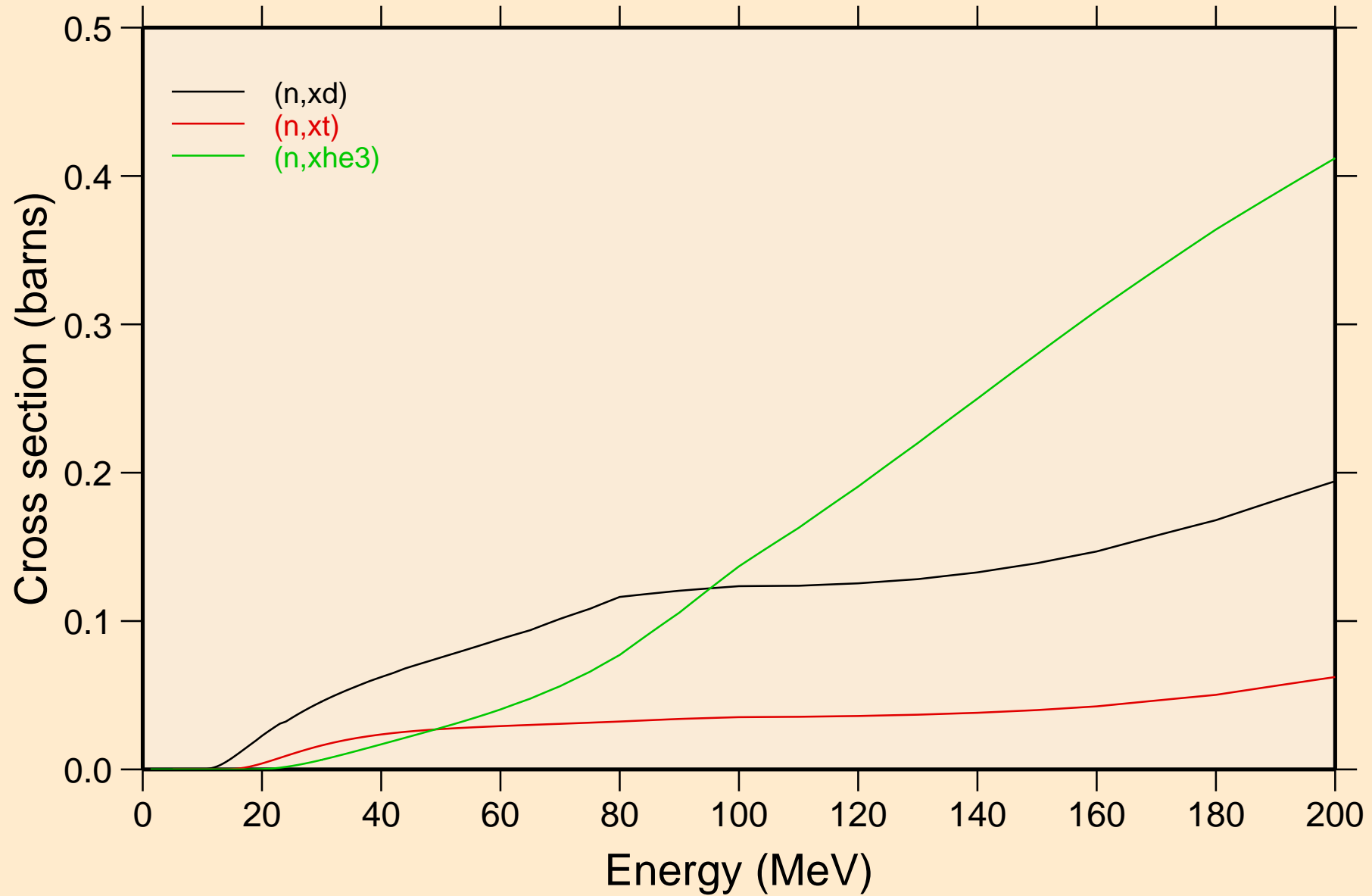
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## Threshold reactions

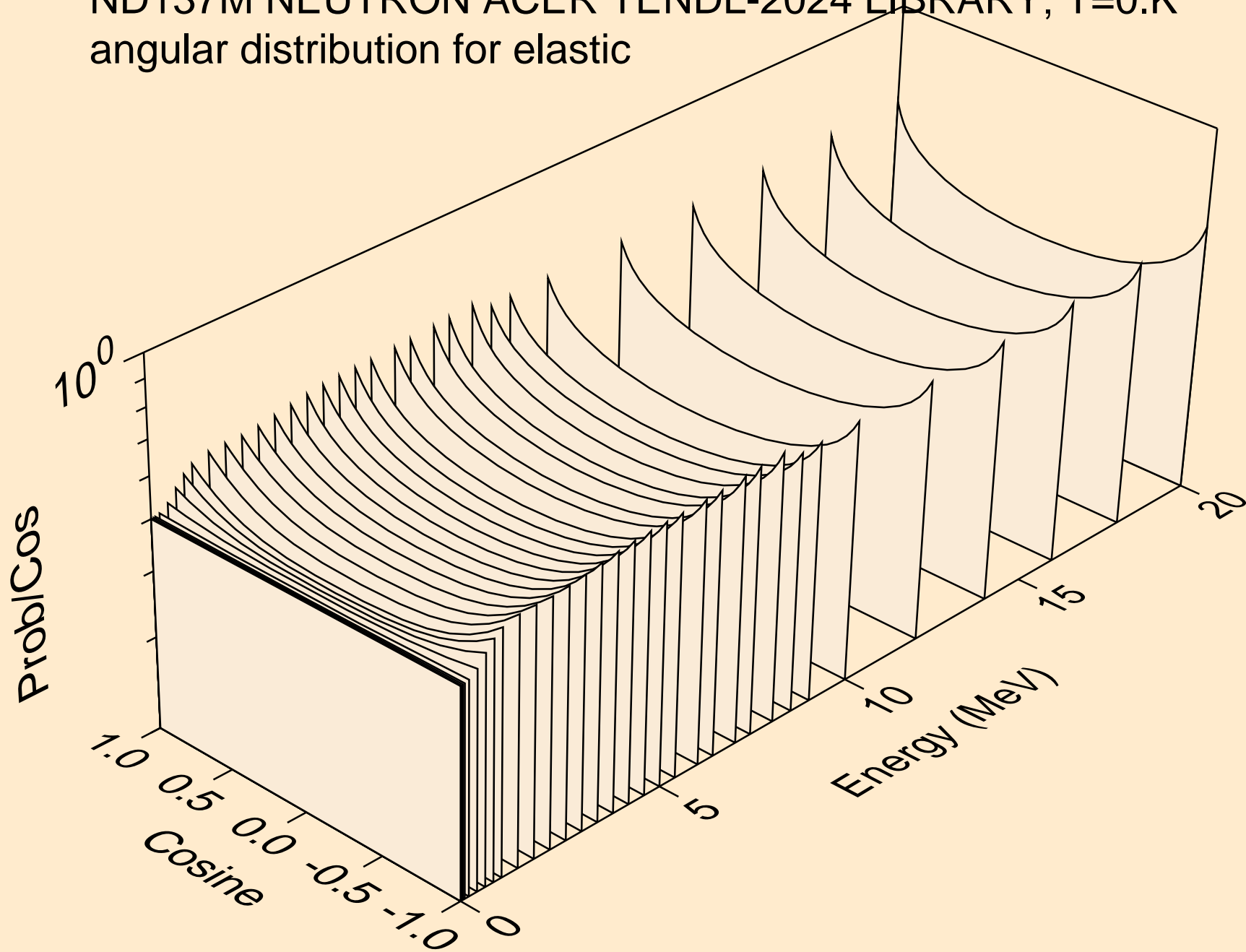


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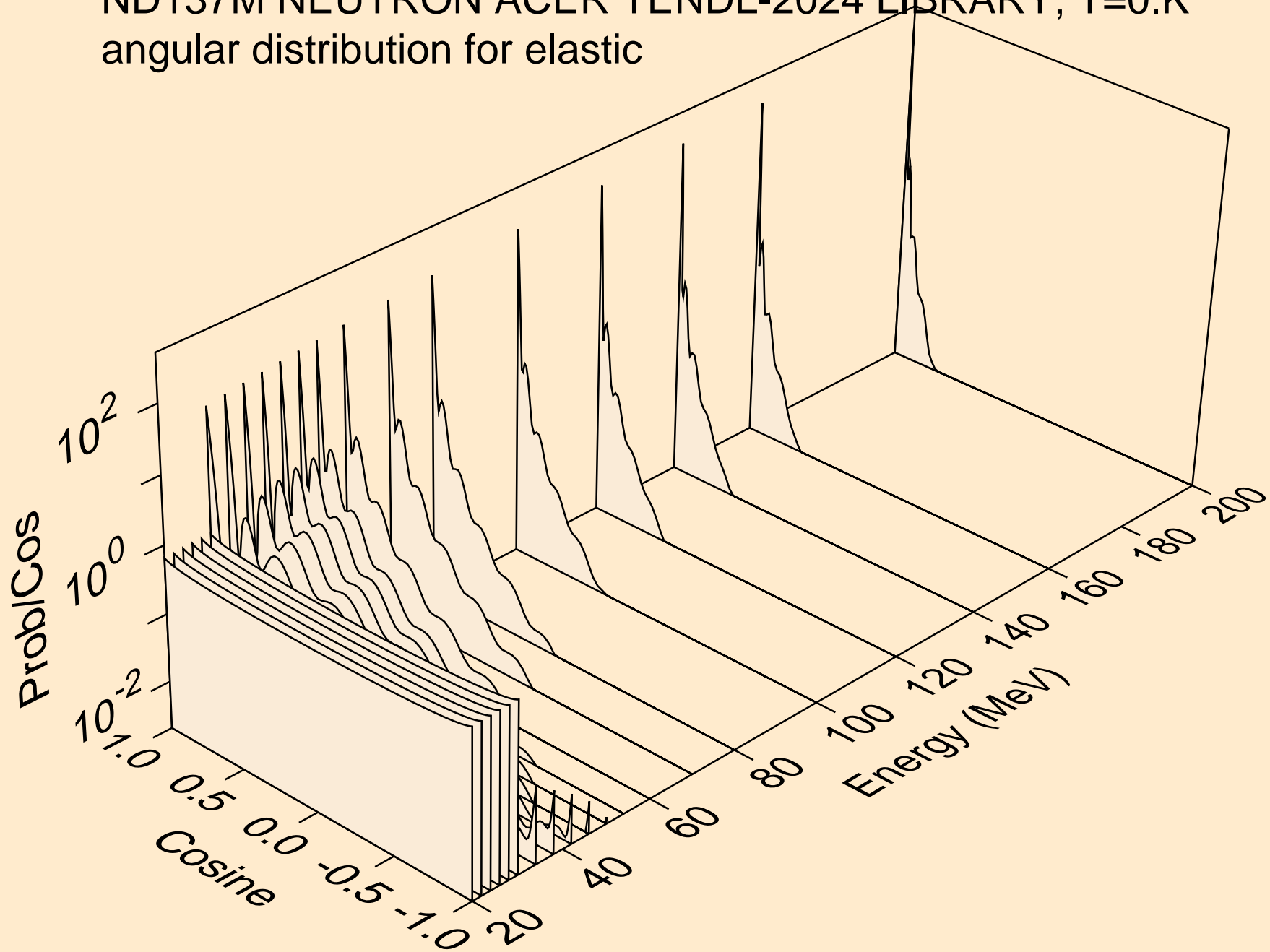
## Threshold reactions



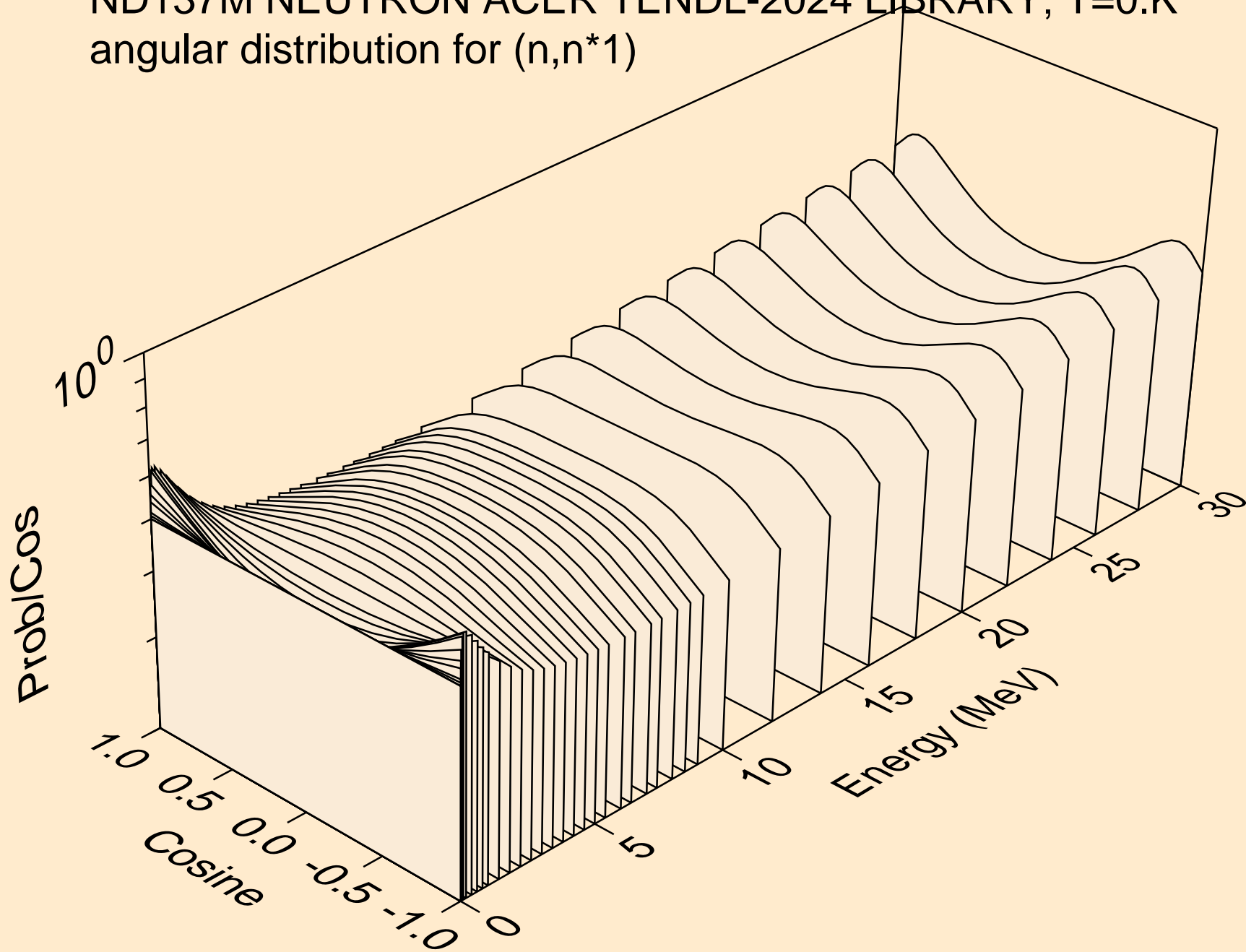
ND137M NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for elastic



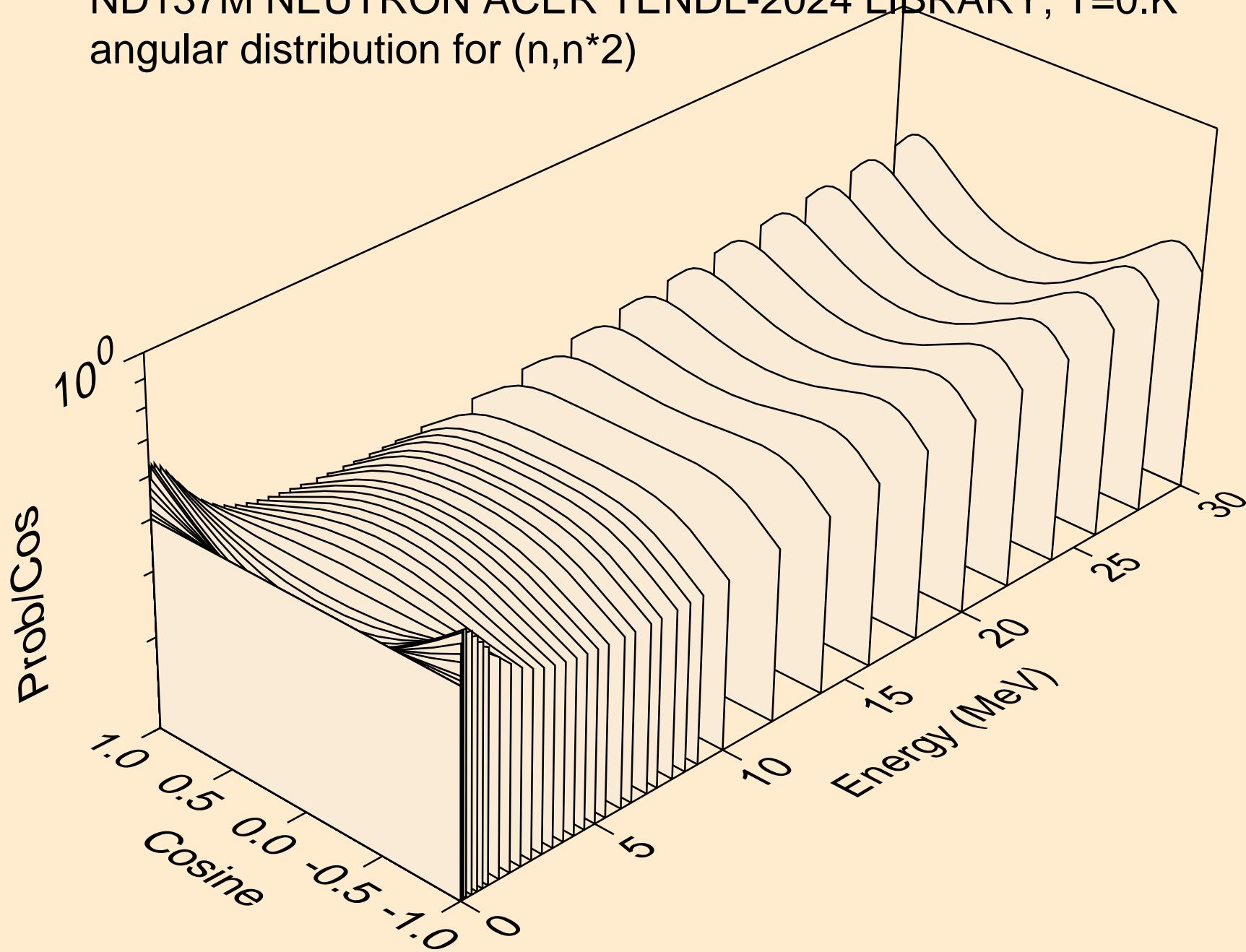
ND137M NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for elastic



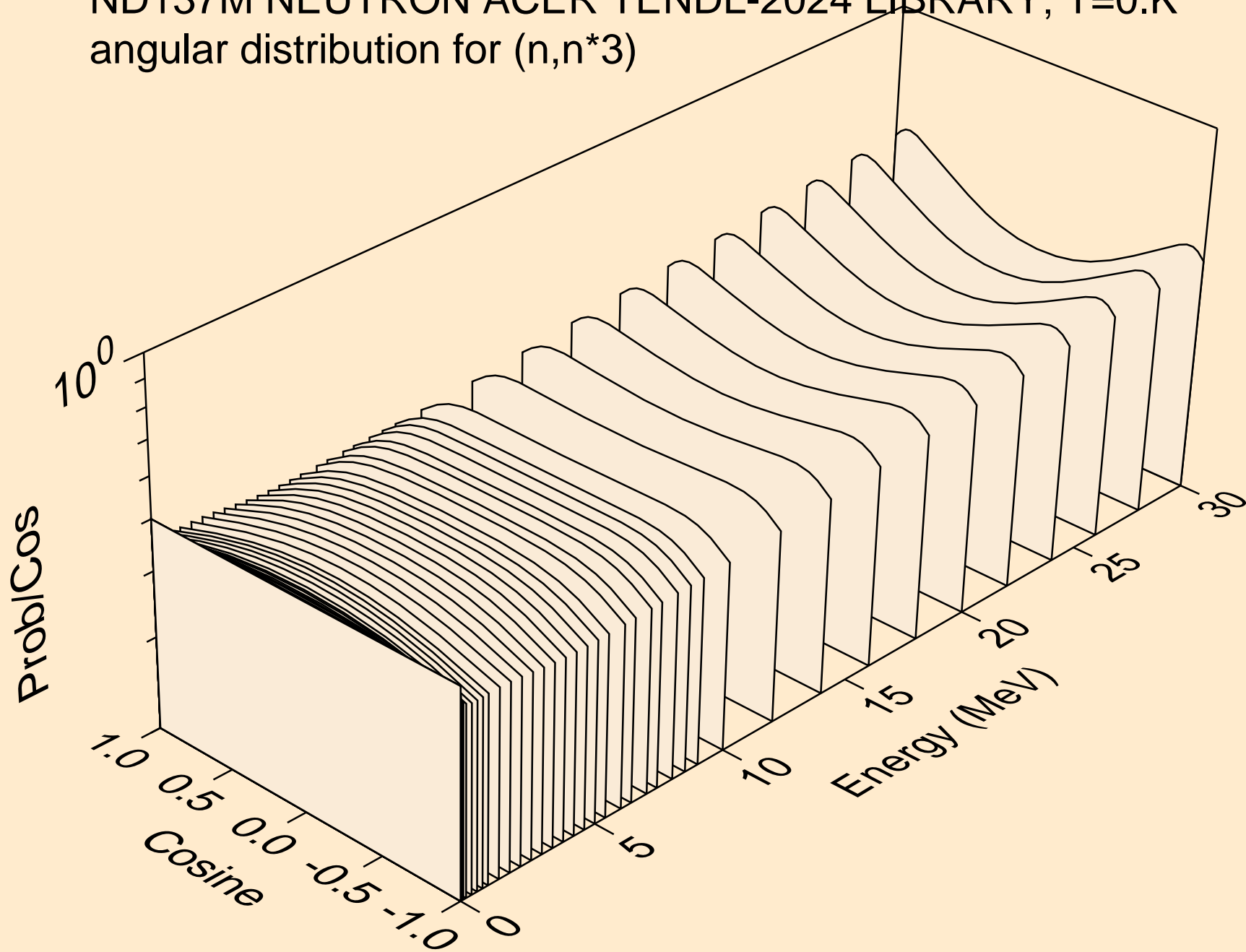
ND137M NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*1)



ND137M NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*2)

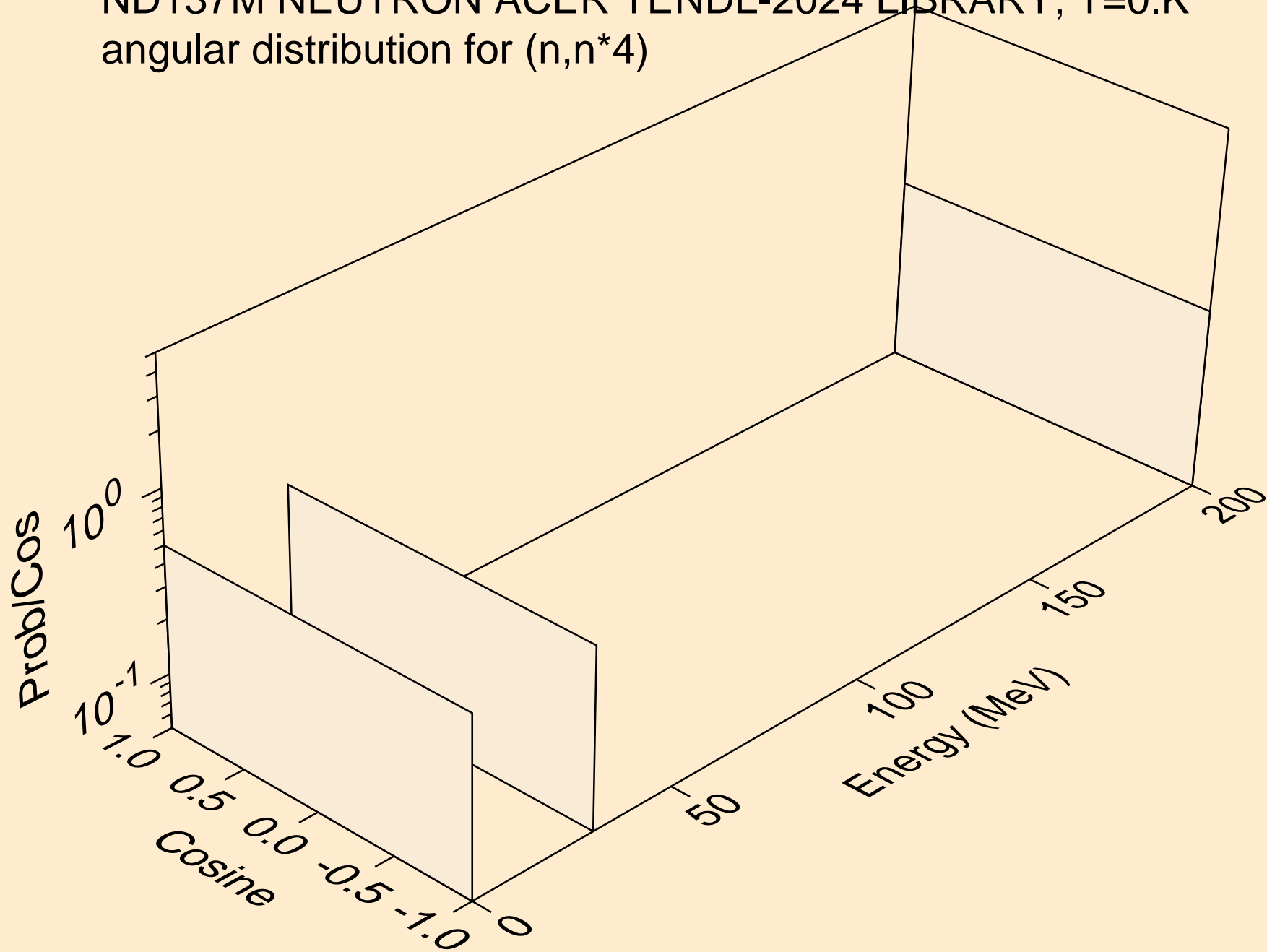


ND137M NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*3)

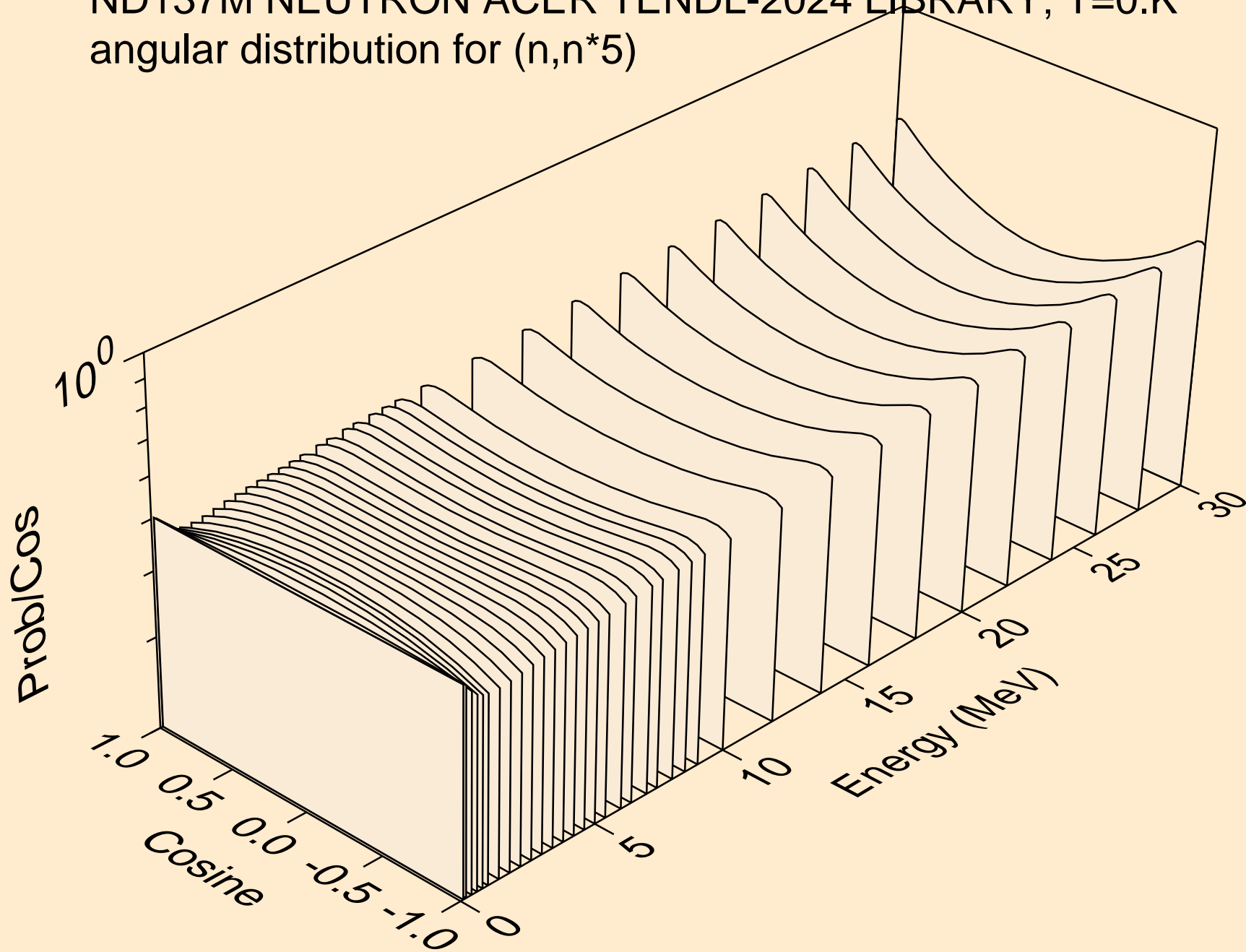




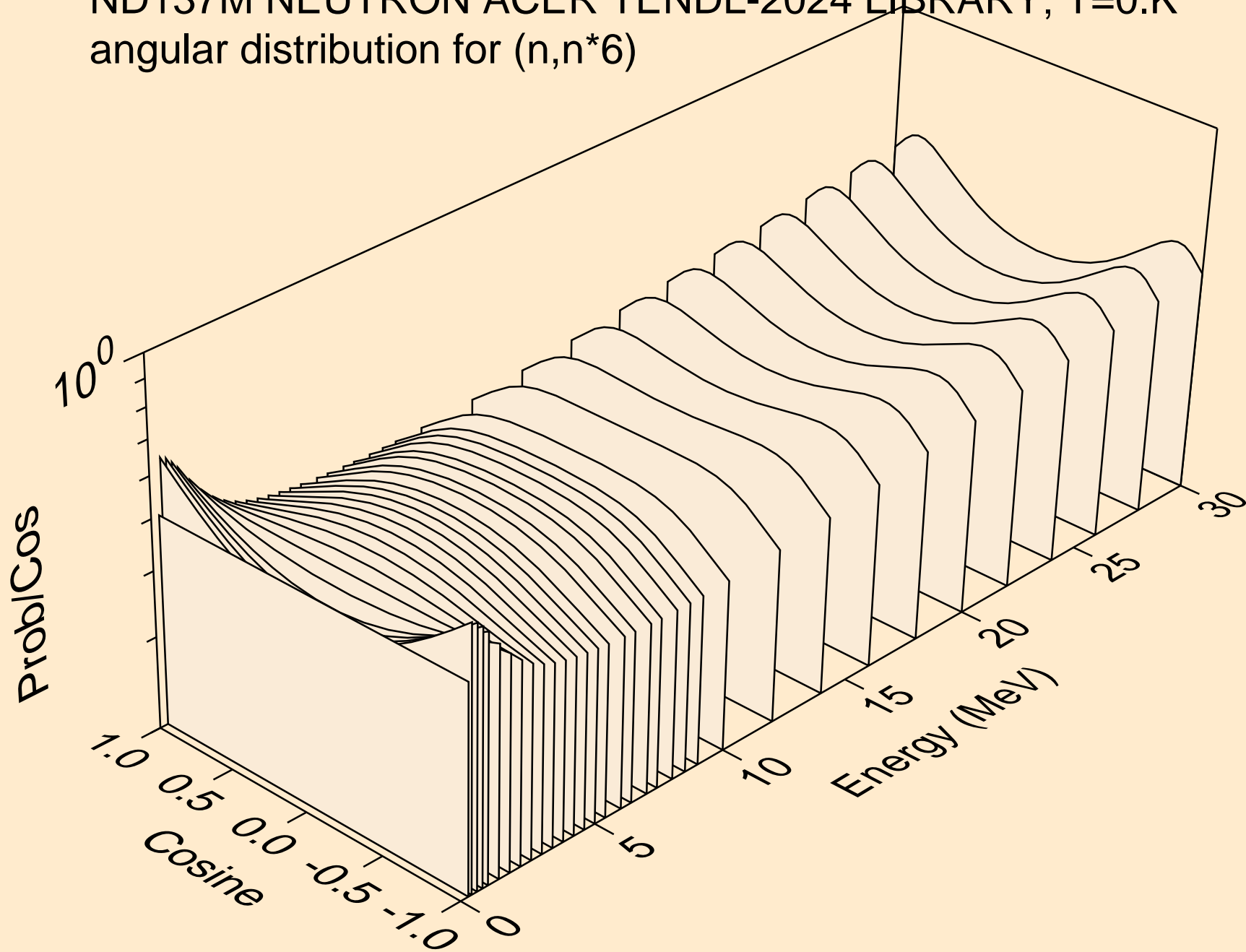
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angular distribution for (n,n\*4)



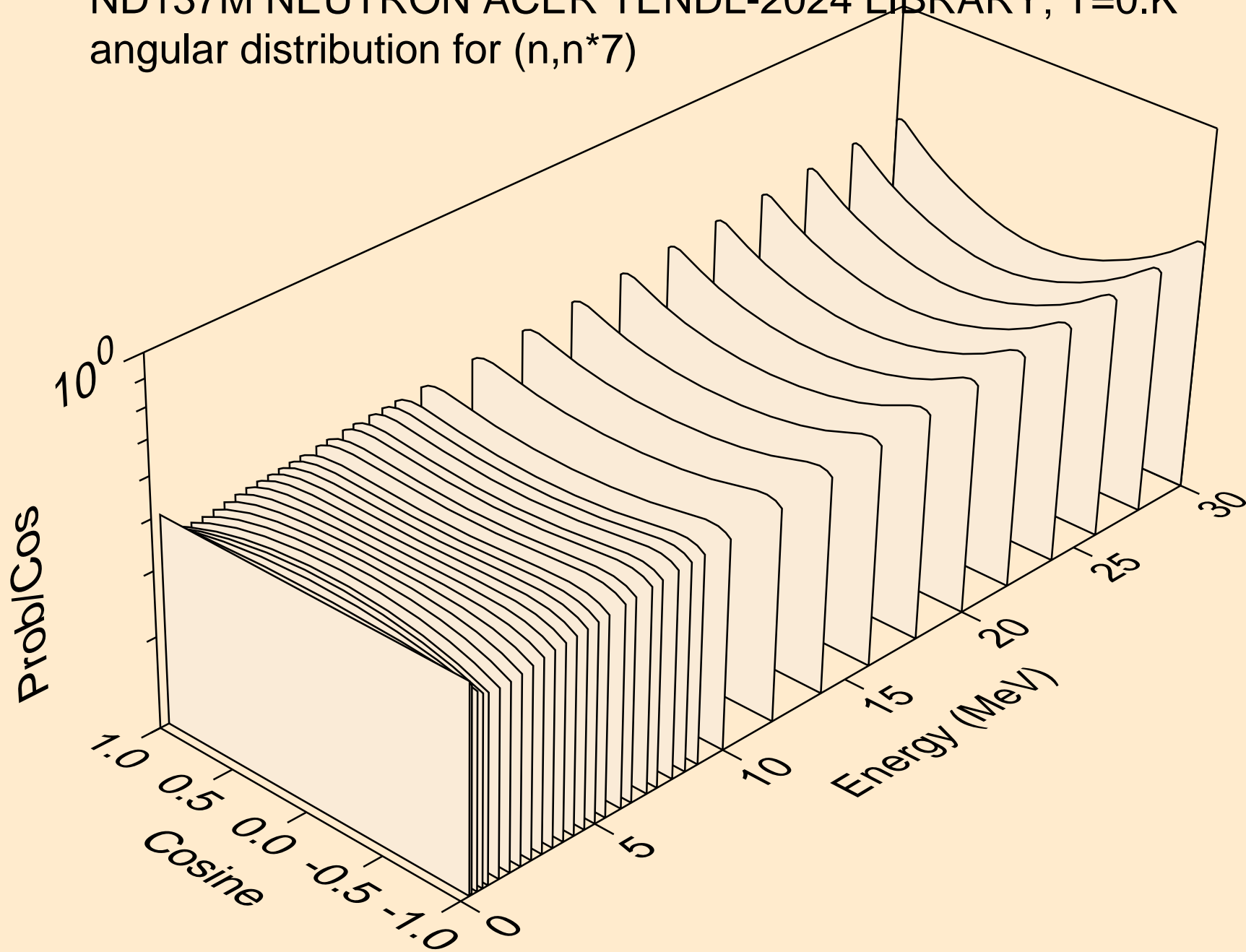
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angular distribution for (n,n\*5)



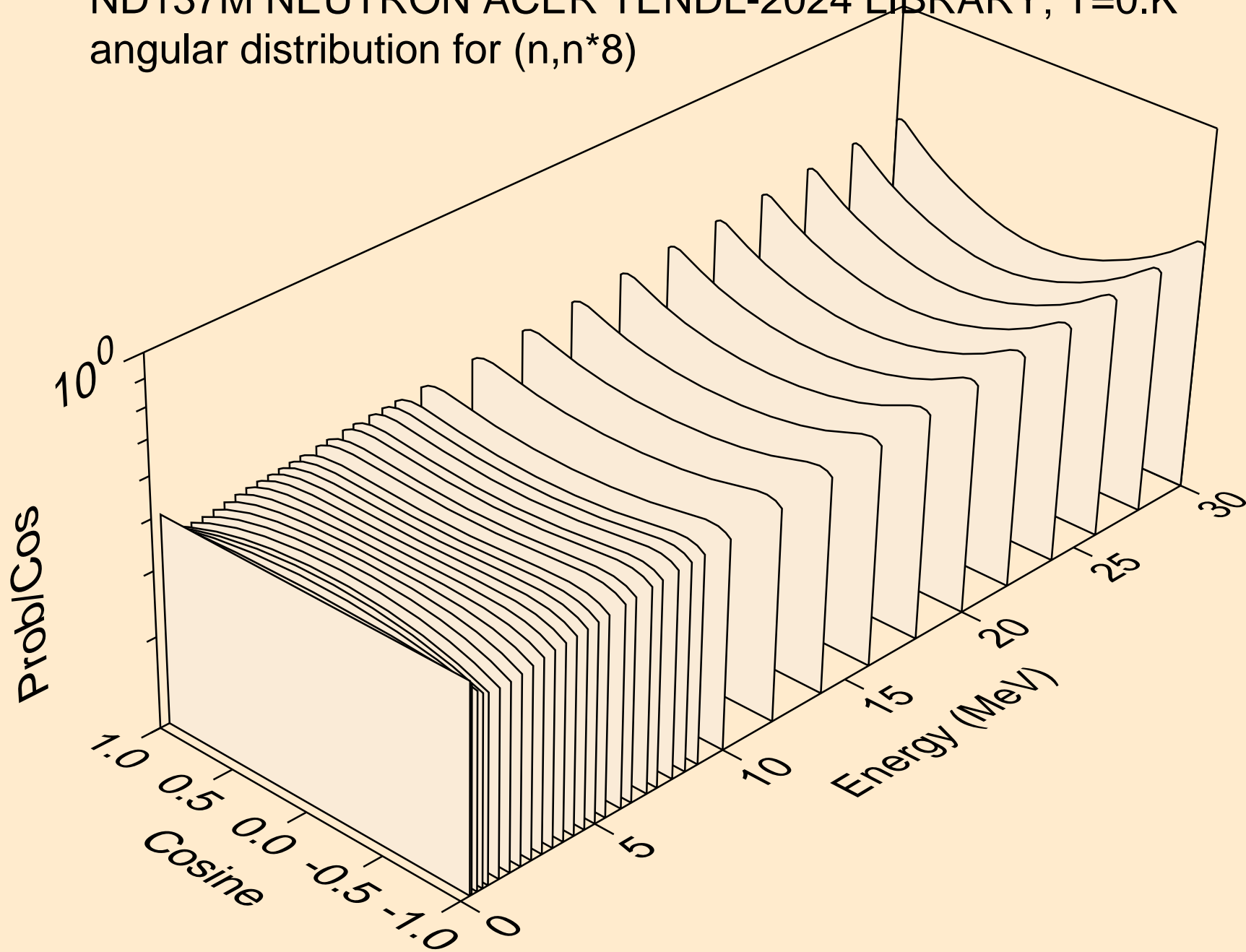
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angular distribution for (n,n\*6)



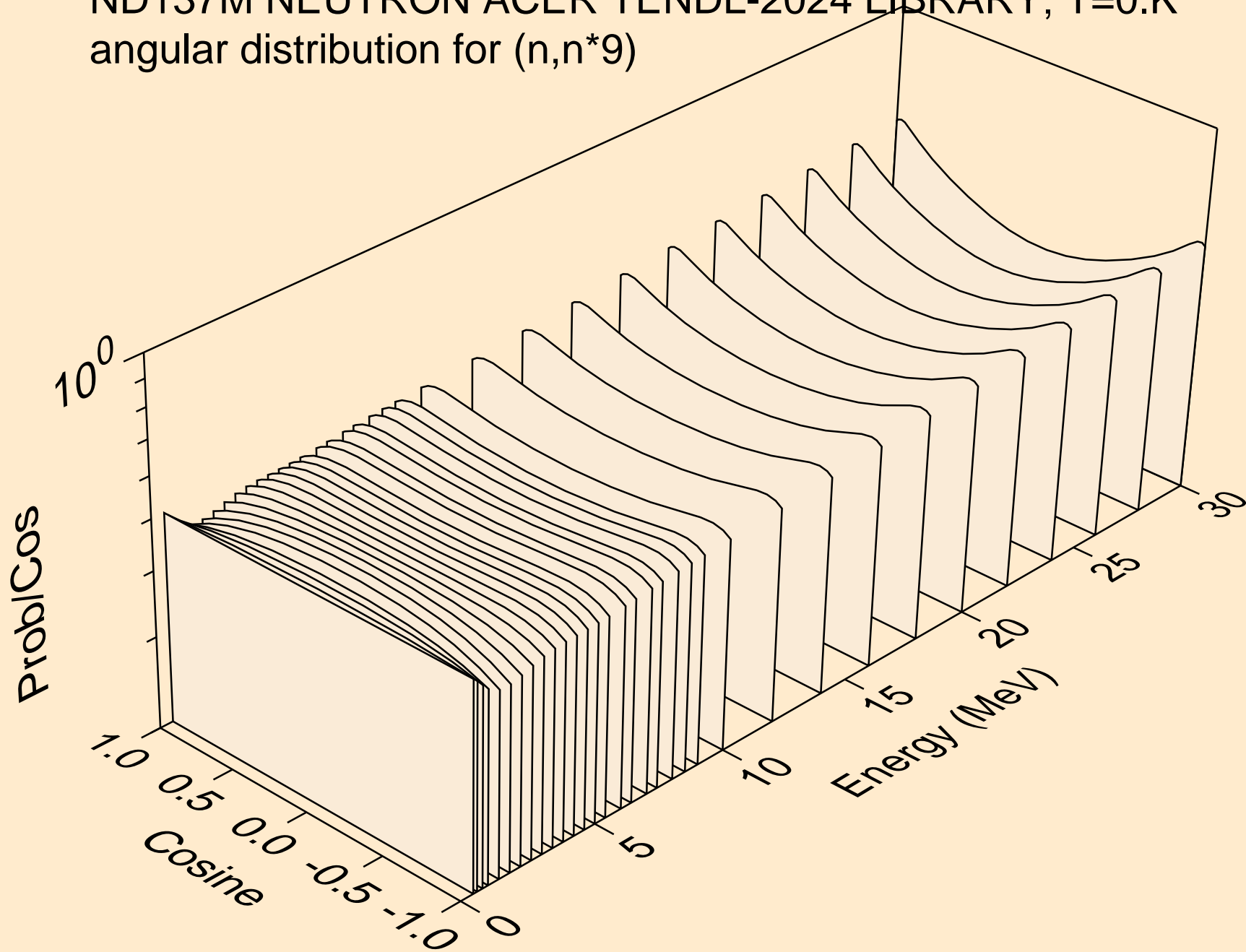
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angular distribution for (n,n\*7)



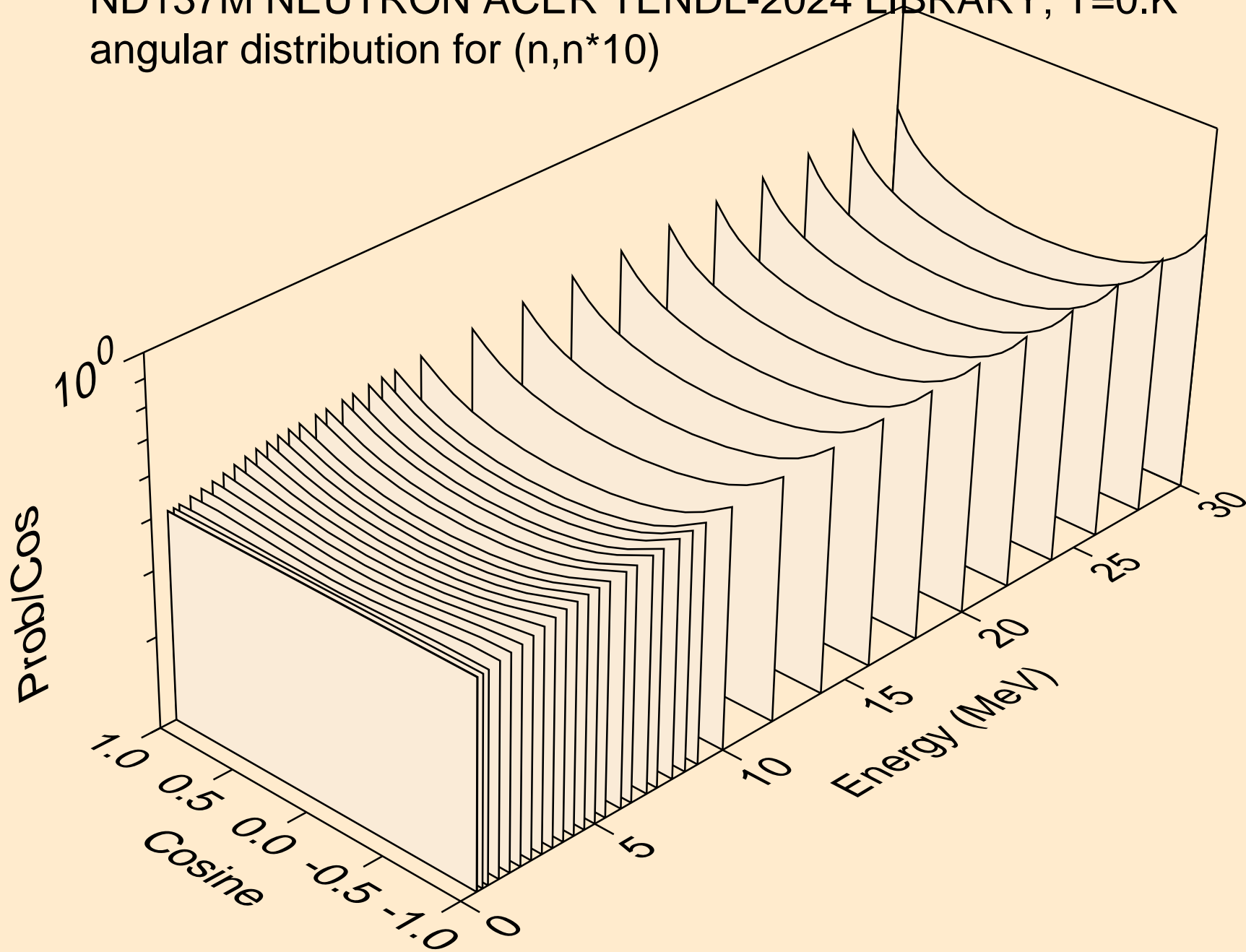
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angular distribution for (n,n\*8)



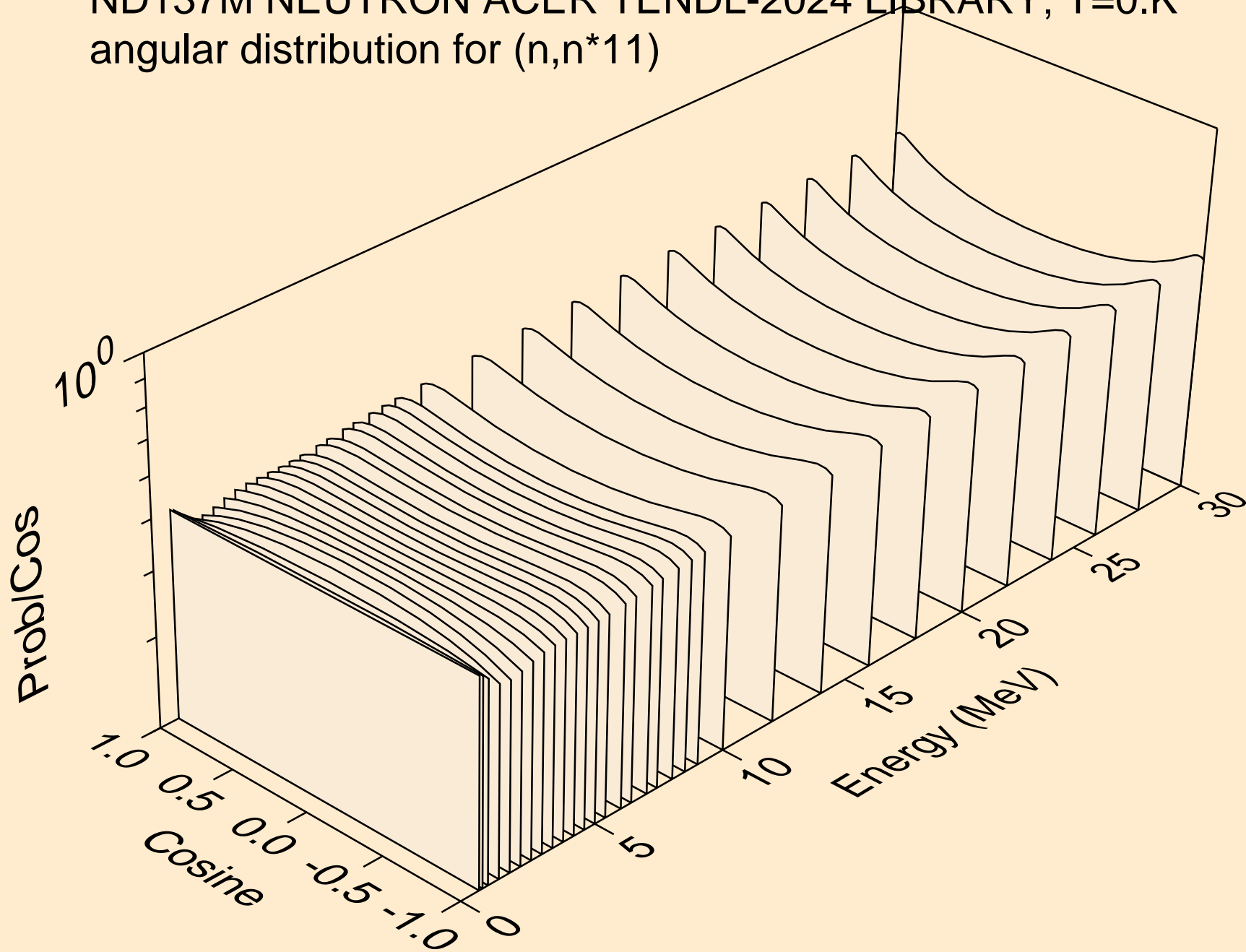
ND137M NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*9)



ND137M NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*10)

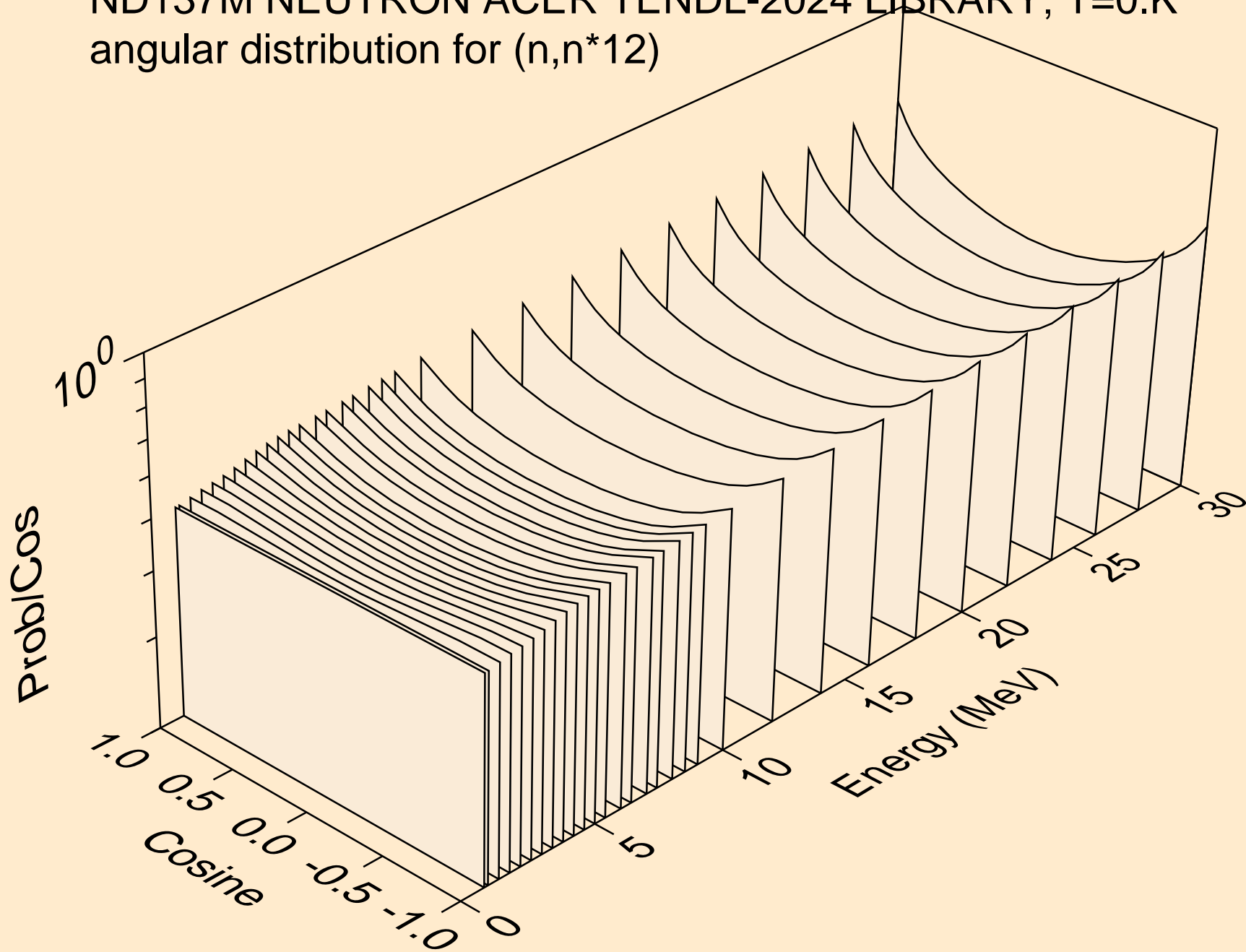


ND137M NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*11)

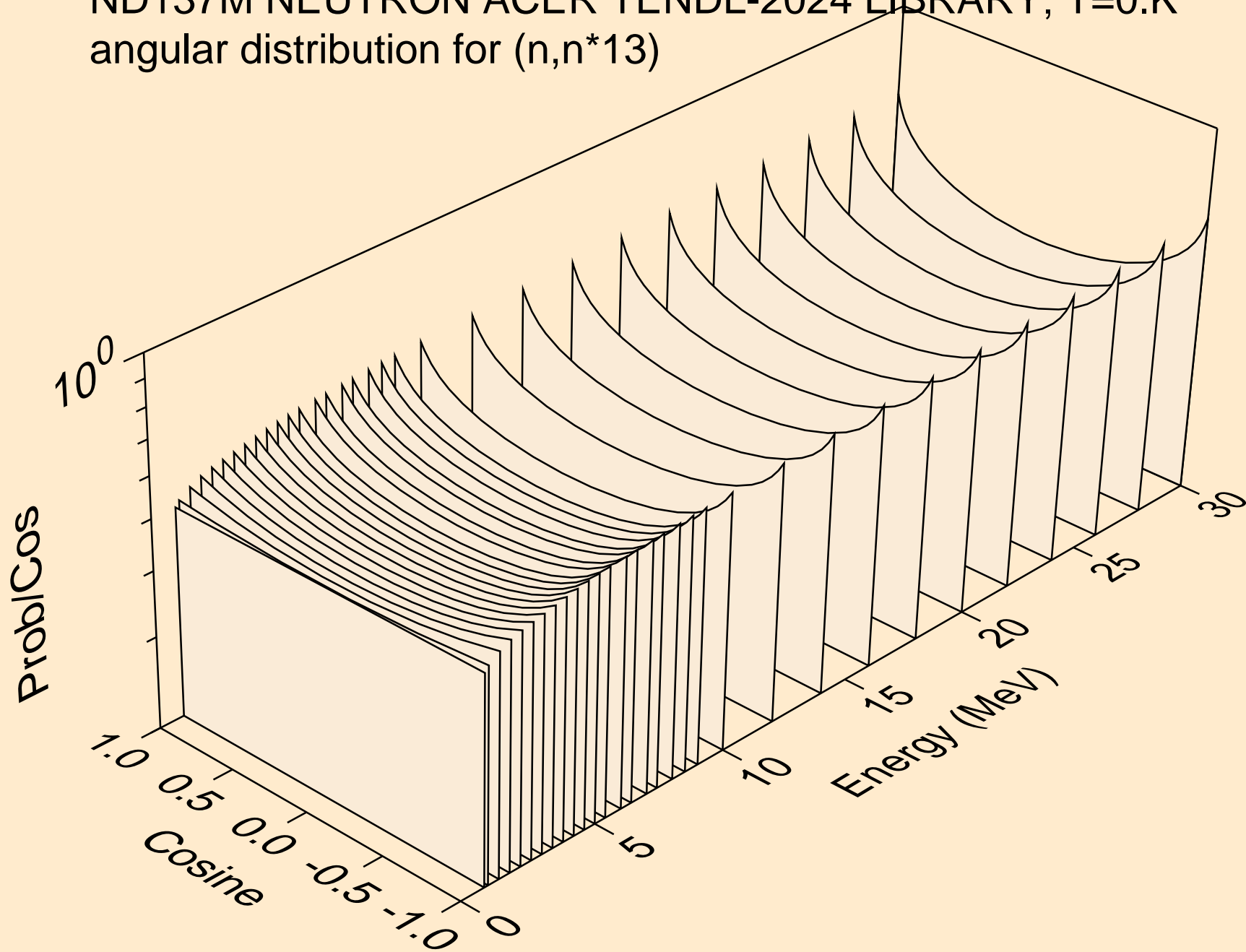




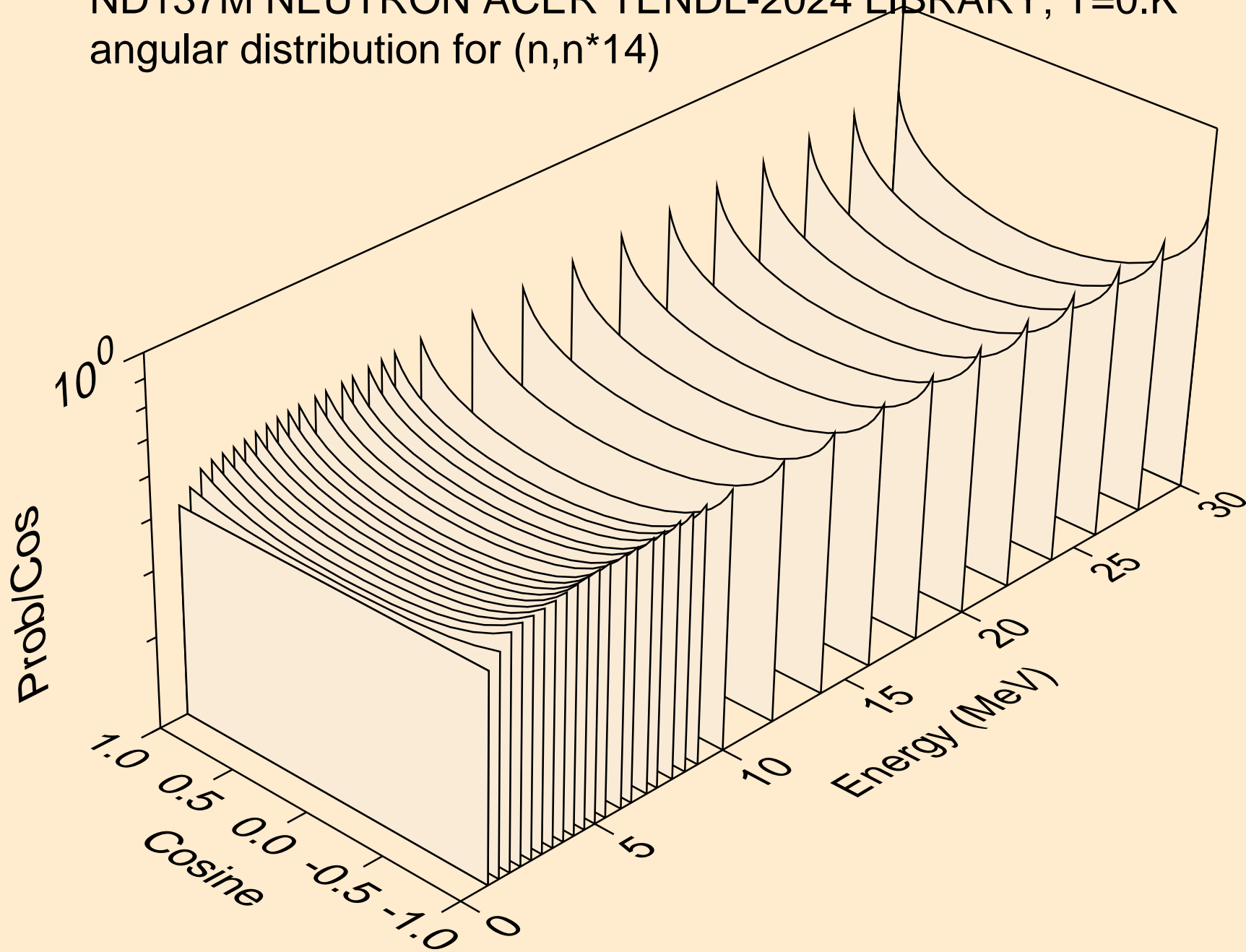
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angular distribution for (n,n\*12)



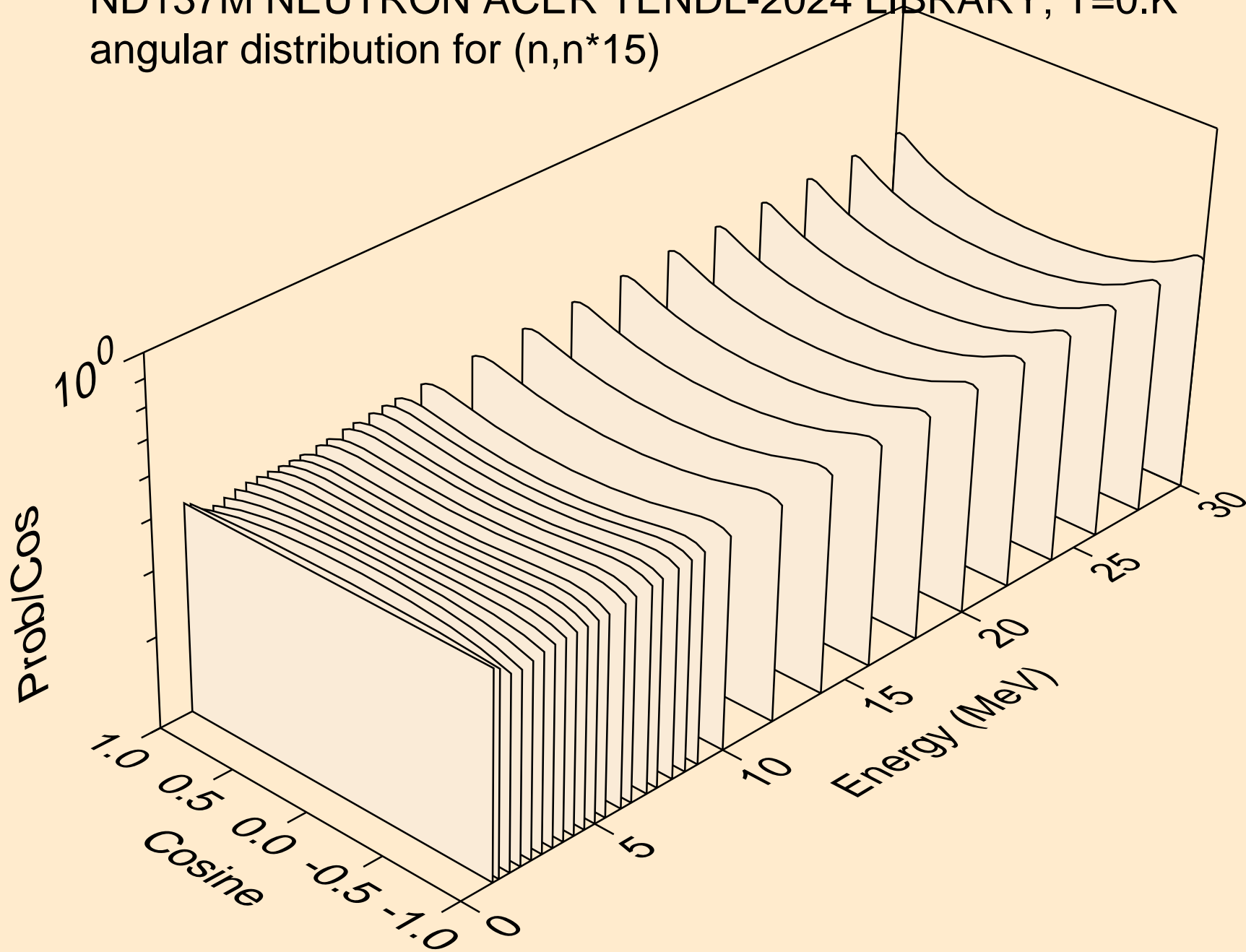
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angular distribution for (n,n\*13)



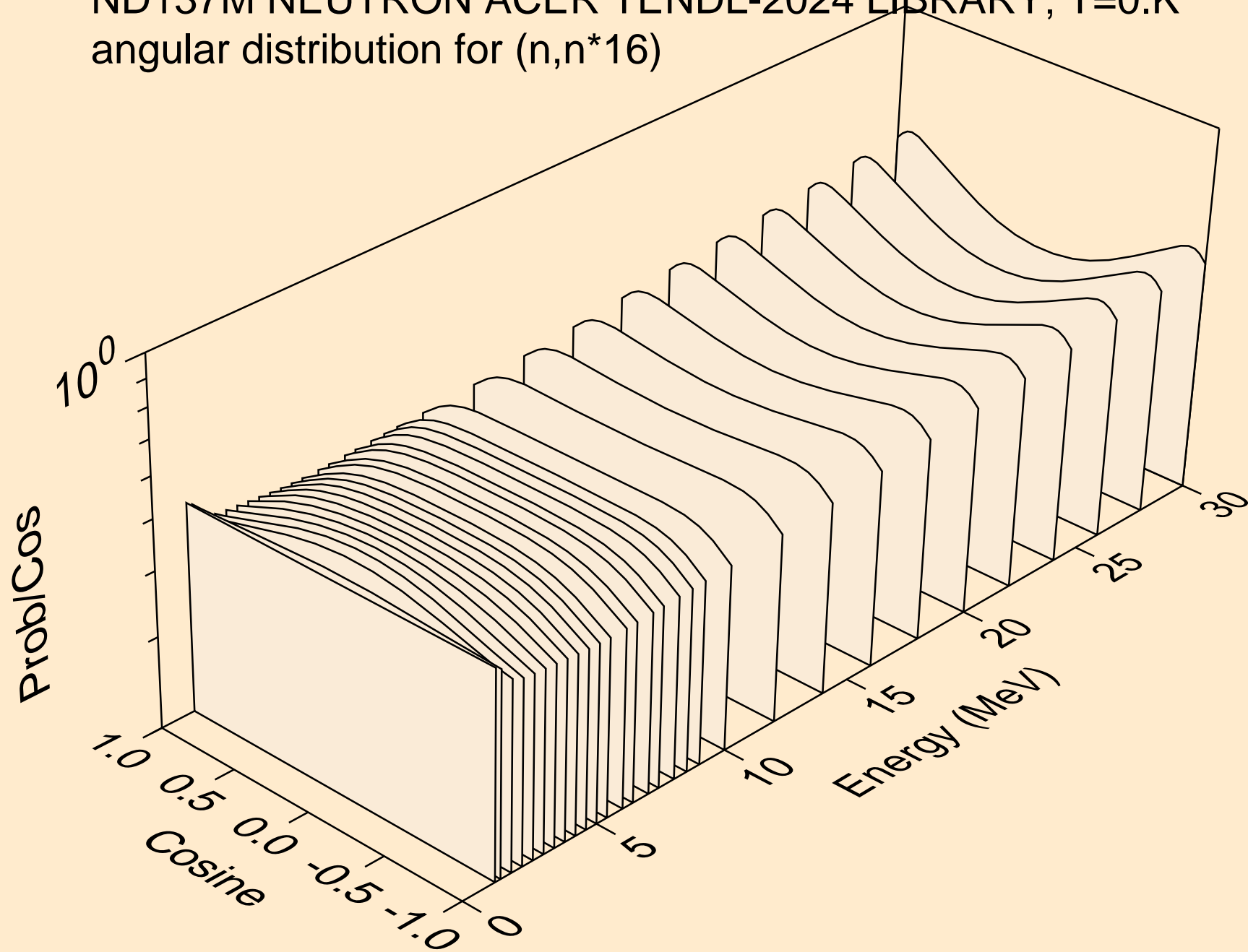
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angular distribution for (n,n\*14)



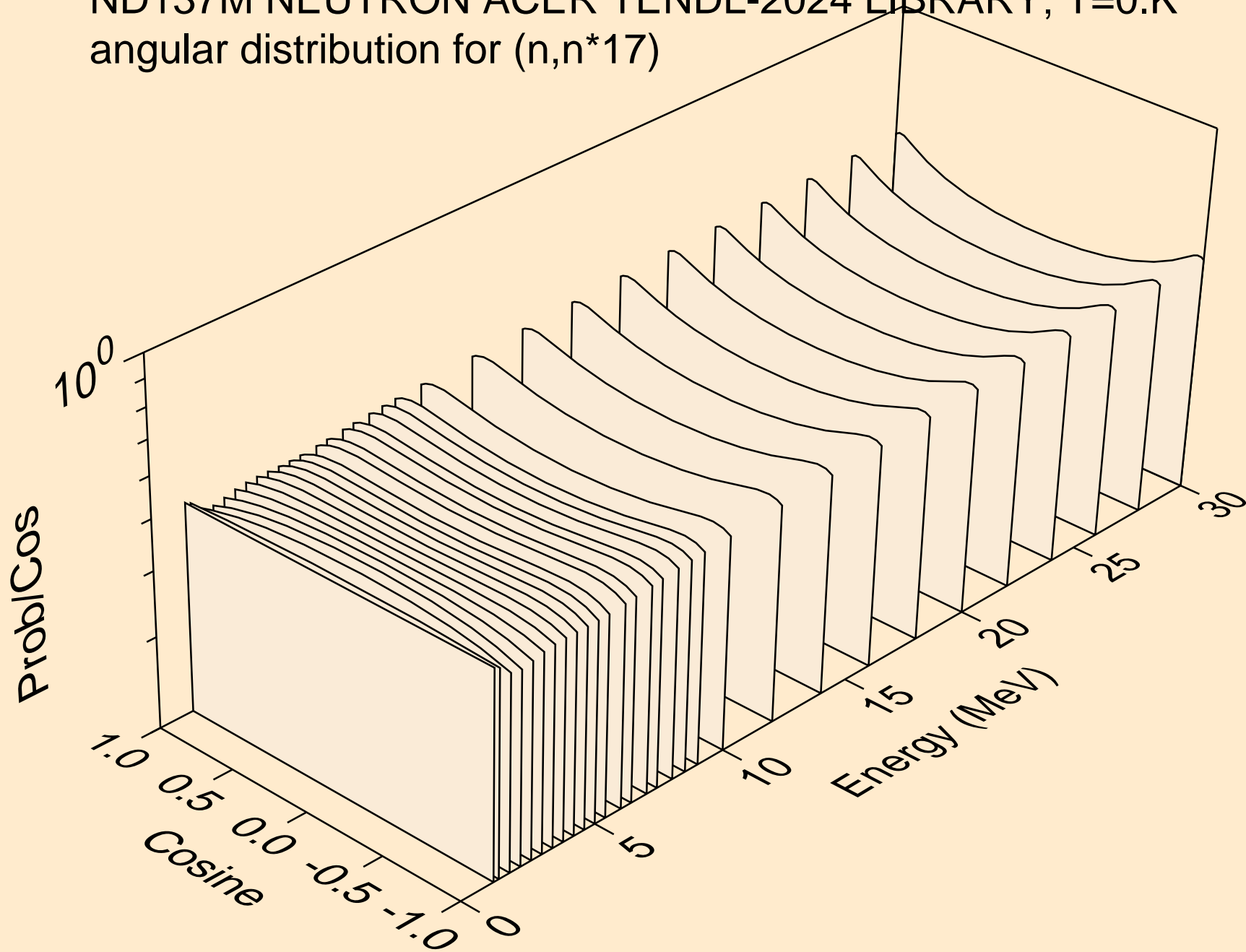
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angular distribution for (n,n\*15)



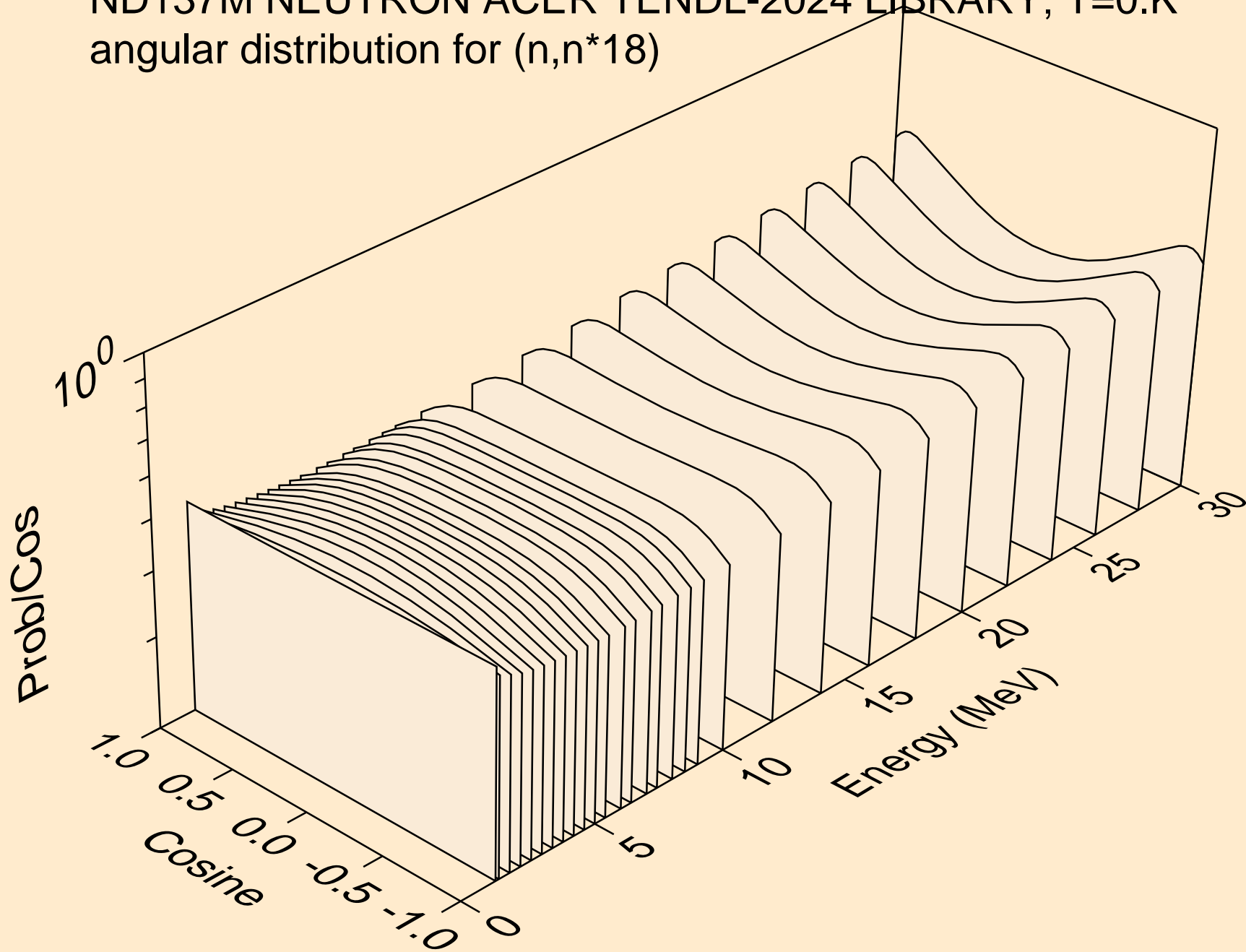
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angular distribution for (n,n\*16)



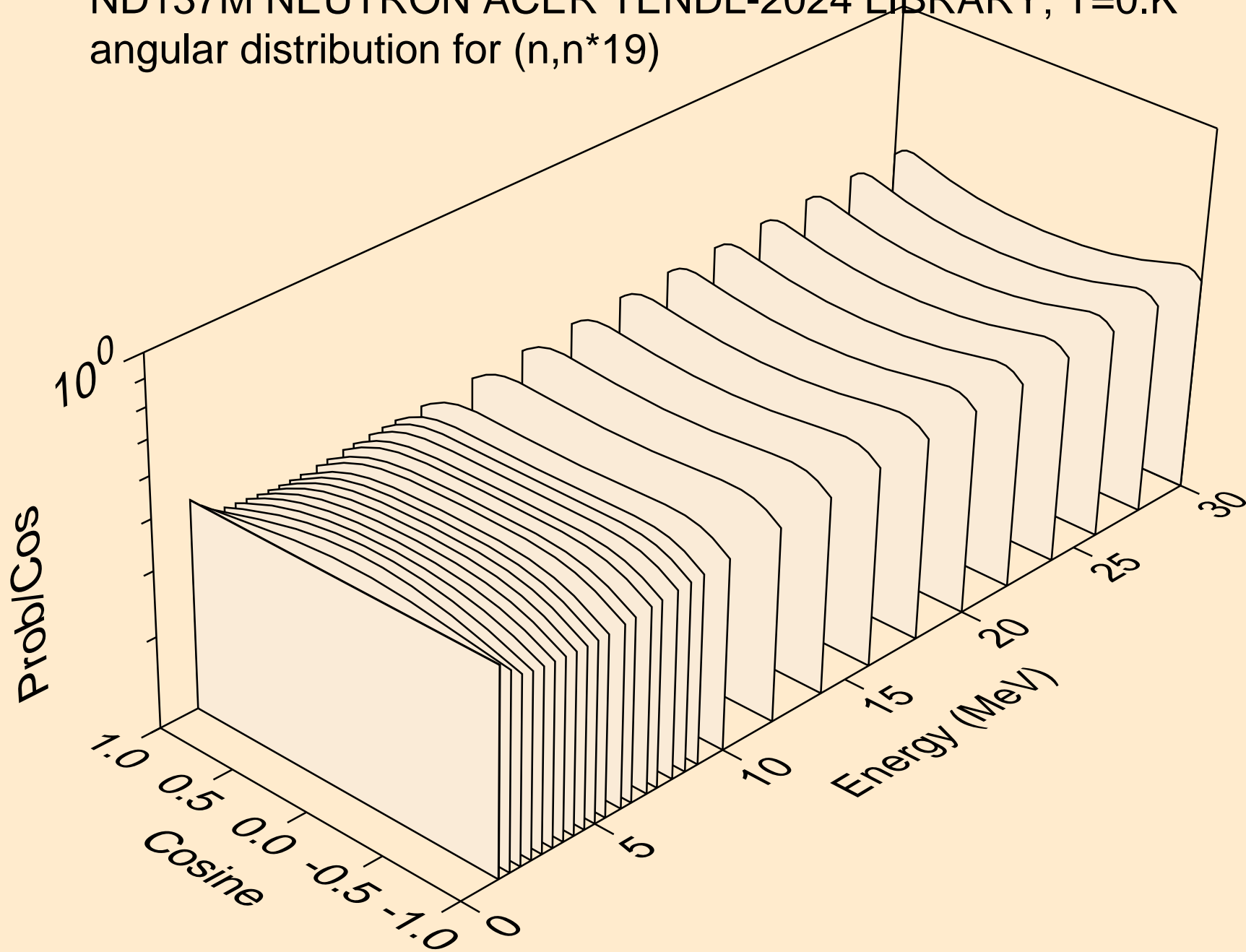
ND137M NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*17)



ND137M NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*18)

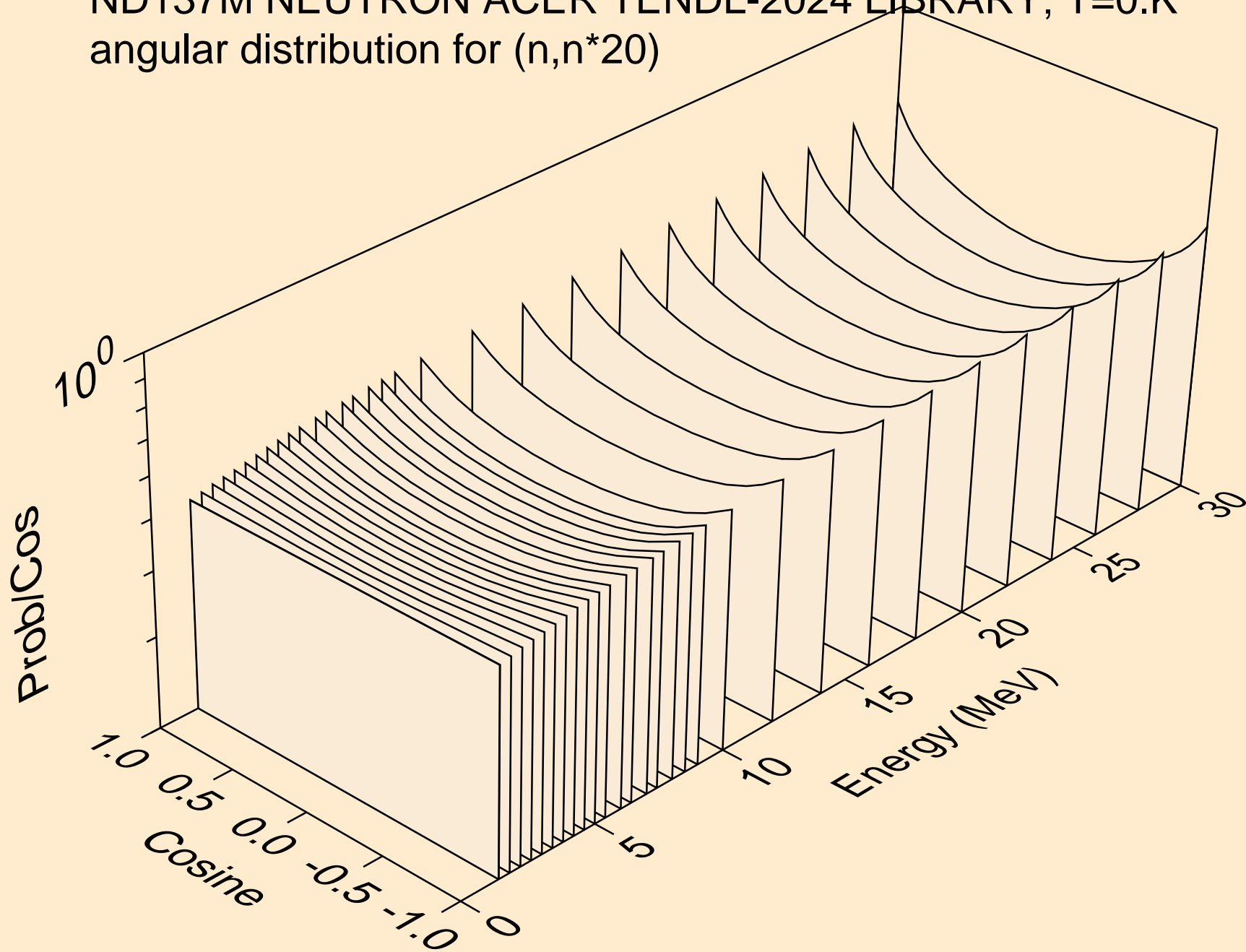


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angular distribution for (n,n\*19)

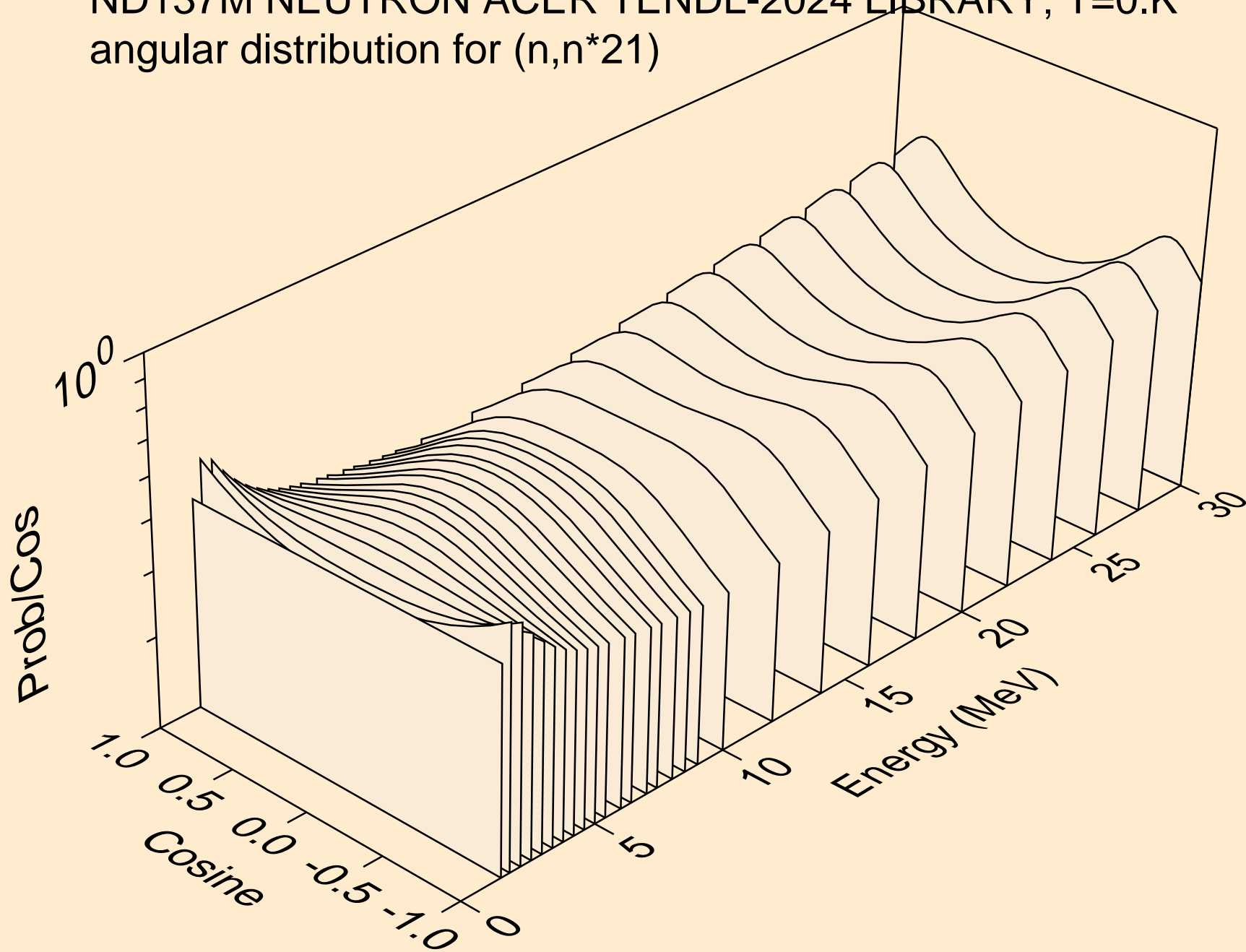




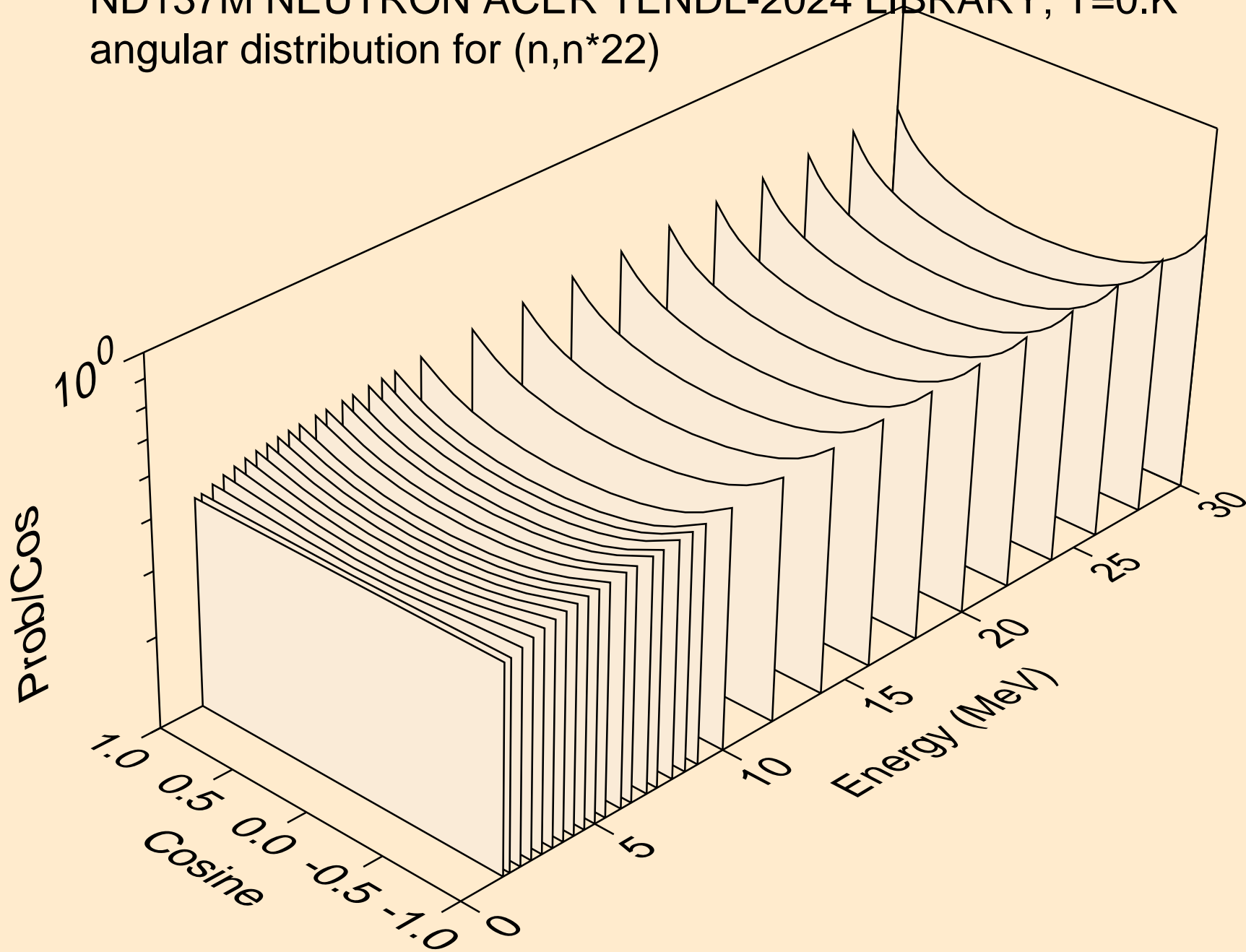
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angular distribution for (n,n\*20)



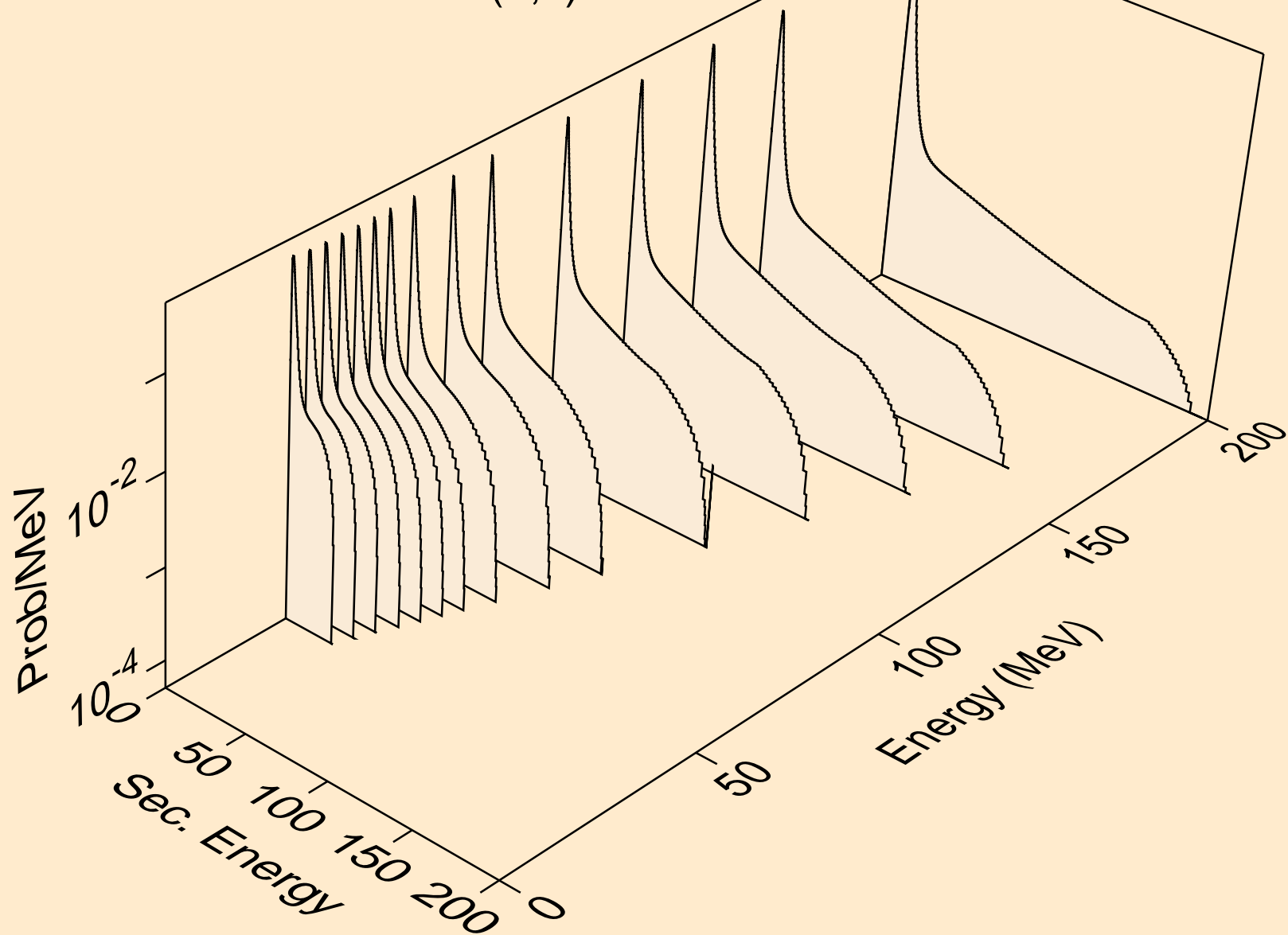
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angular distribution for (n,n\*21)



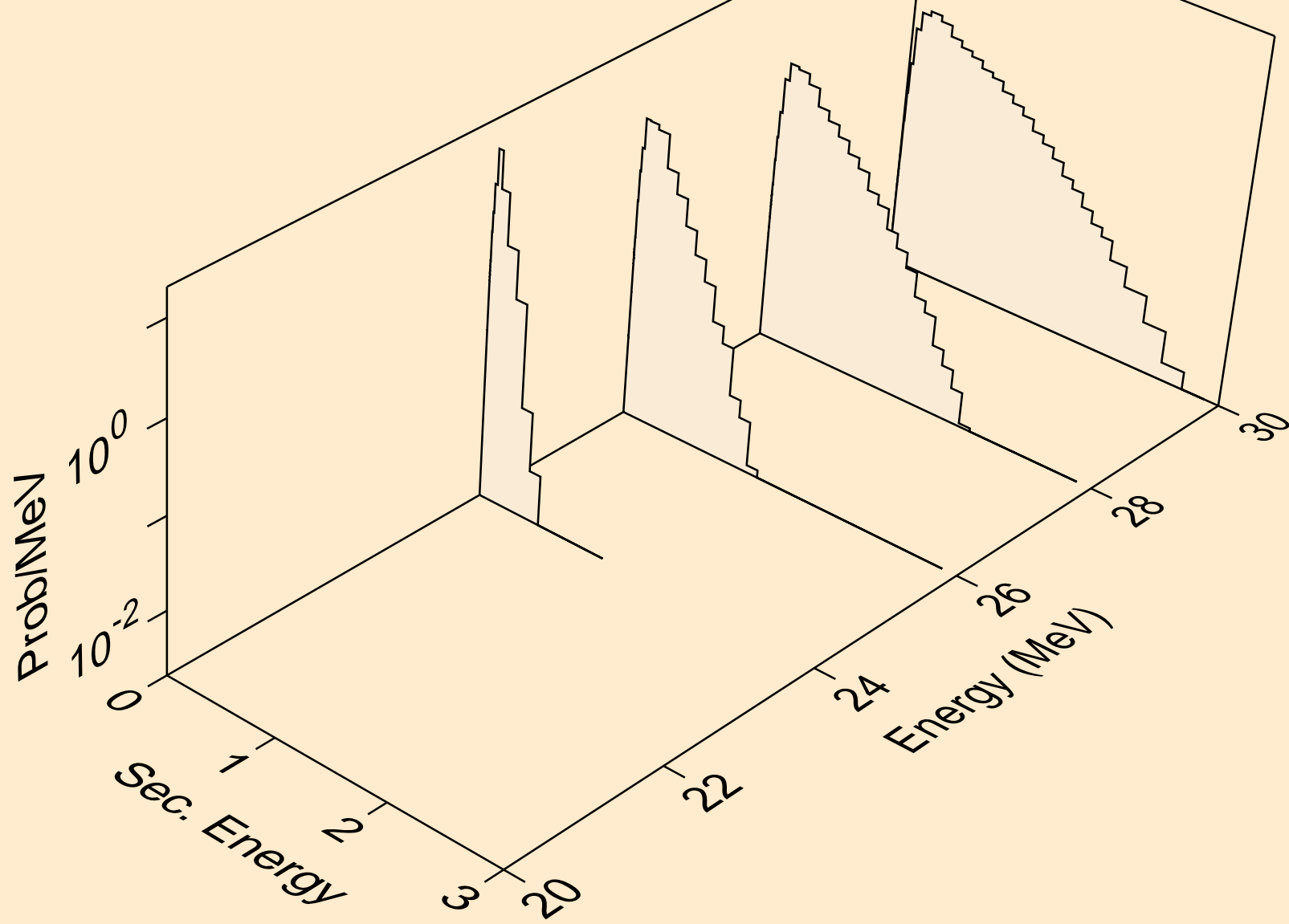
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angular distribution for (n,n\*22)



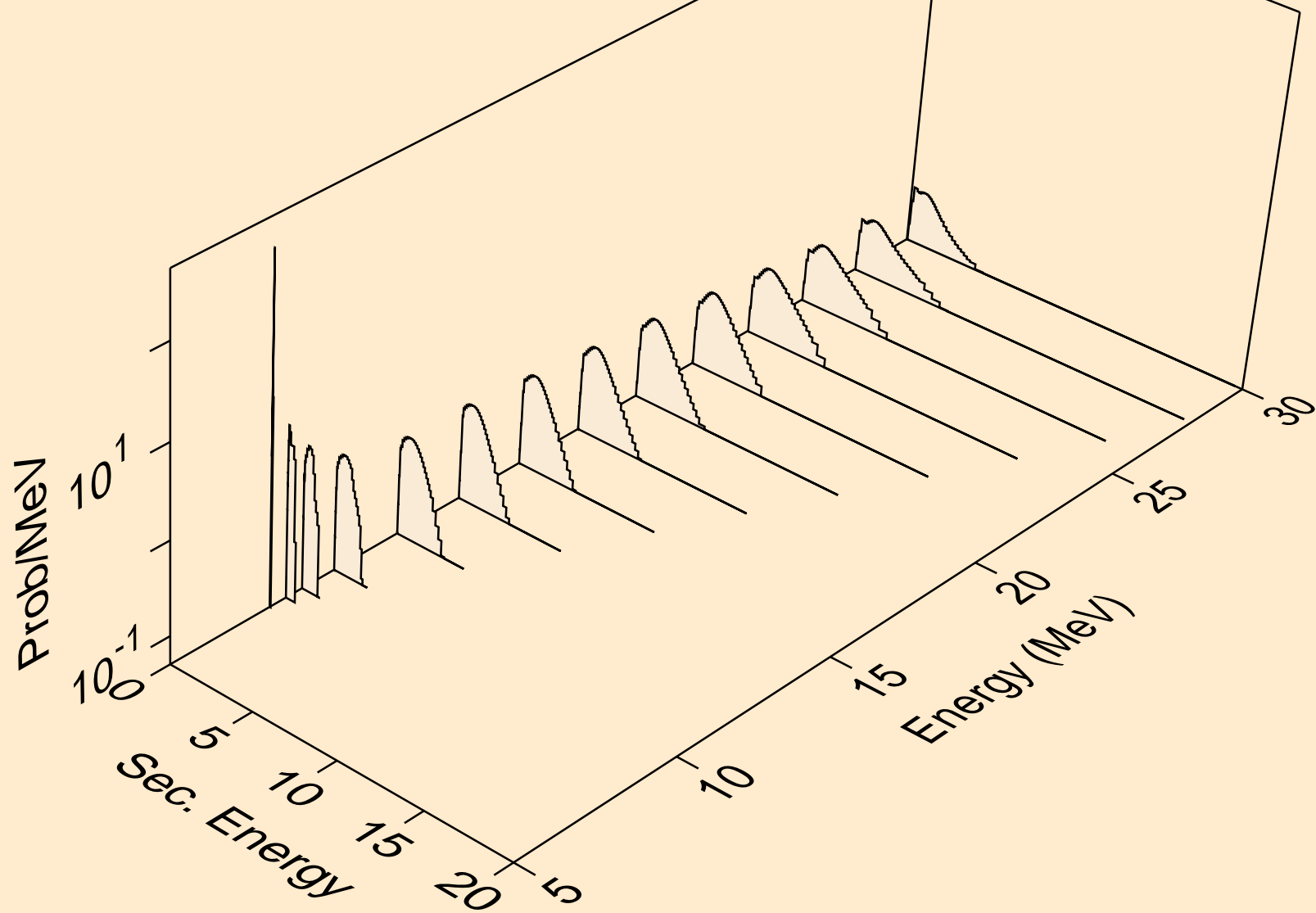
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Neutron emission for (n,x)



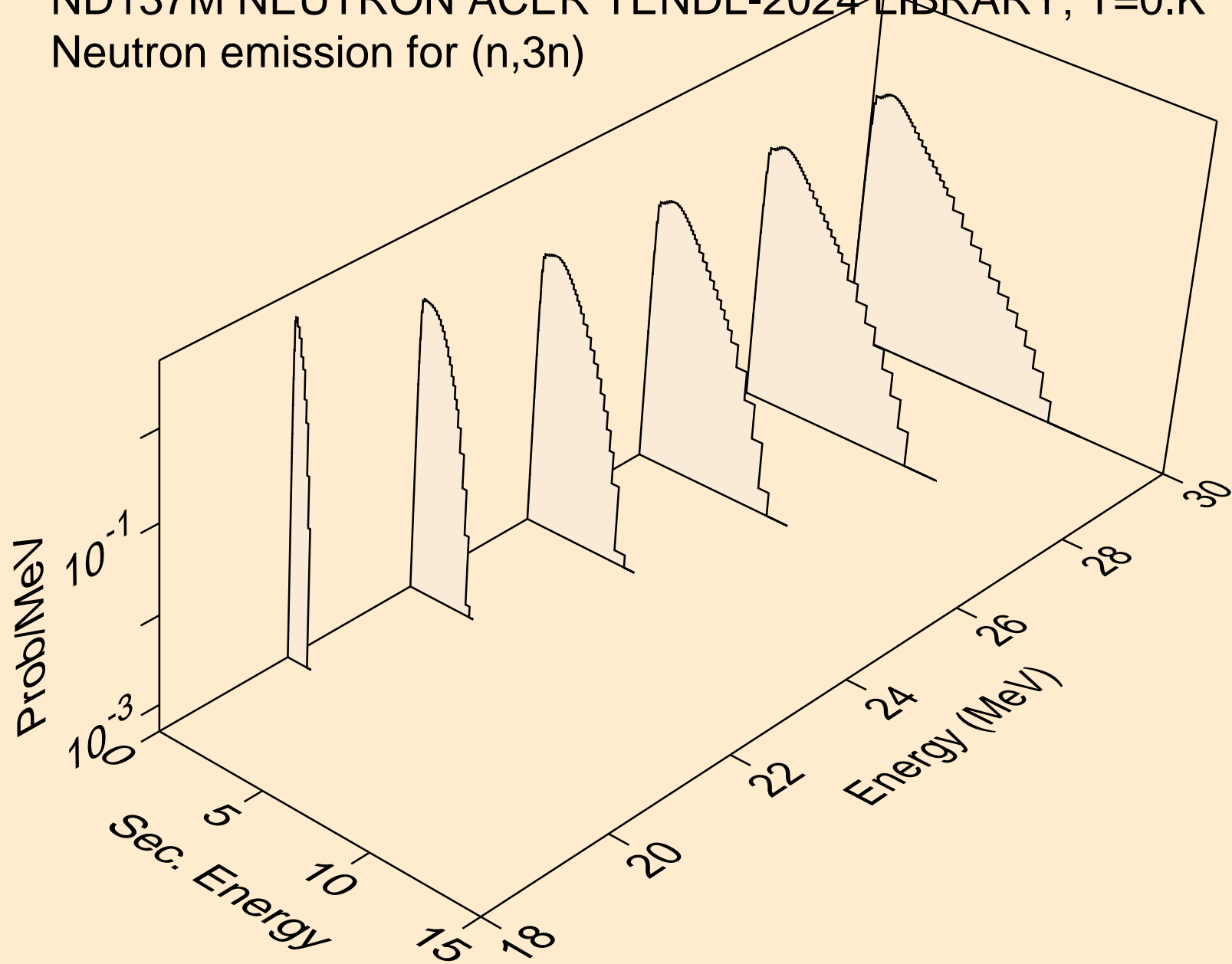
ND137M NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,2nd)



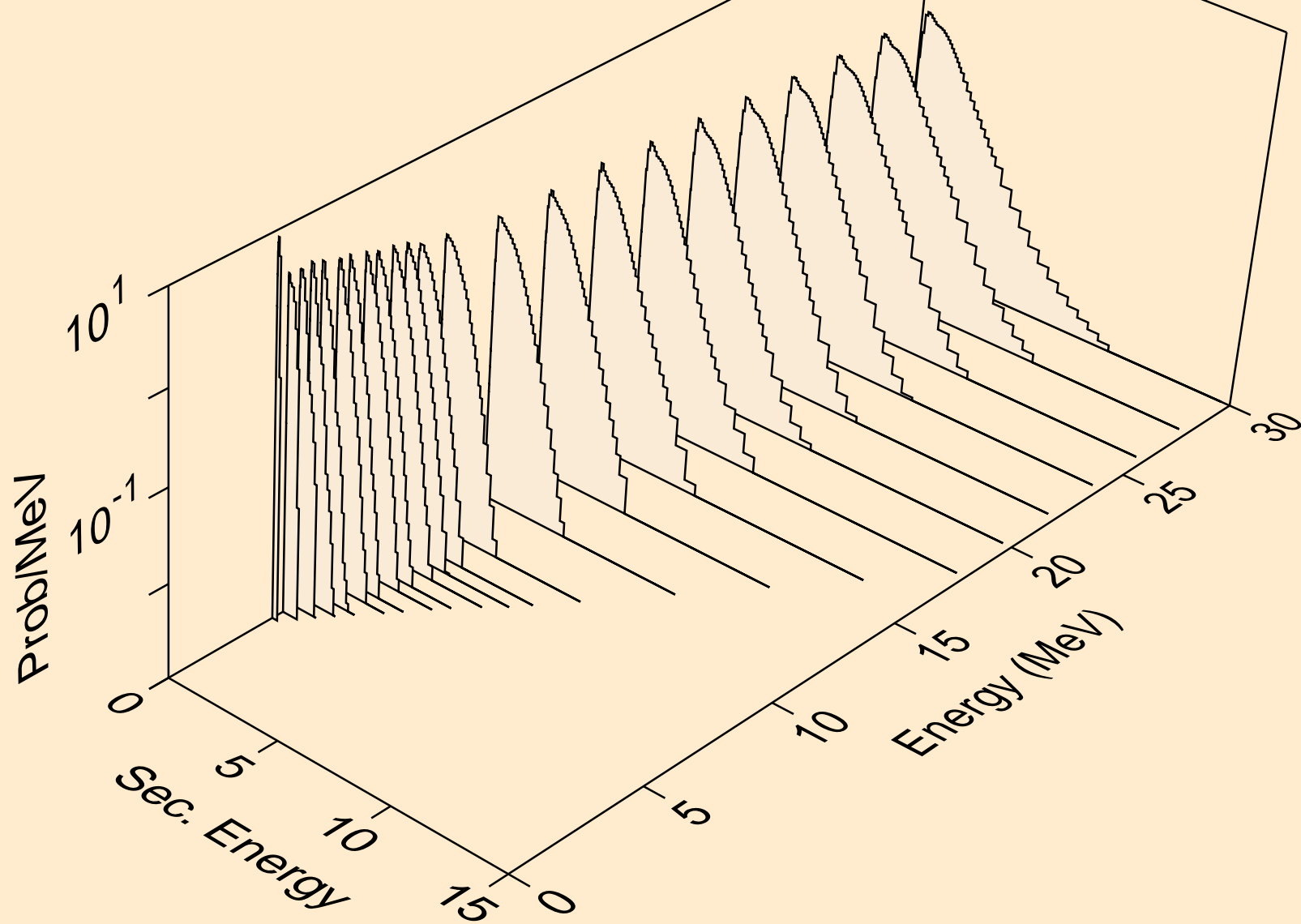
ND137M NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,2n)



ND137M NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,3n)

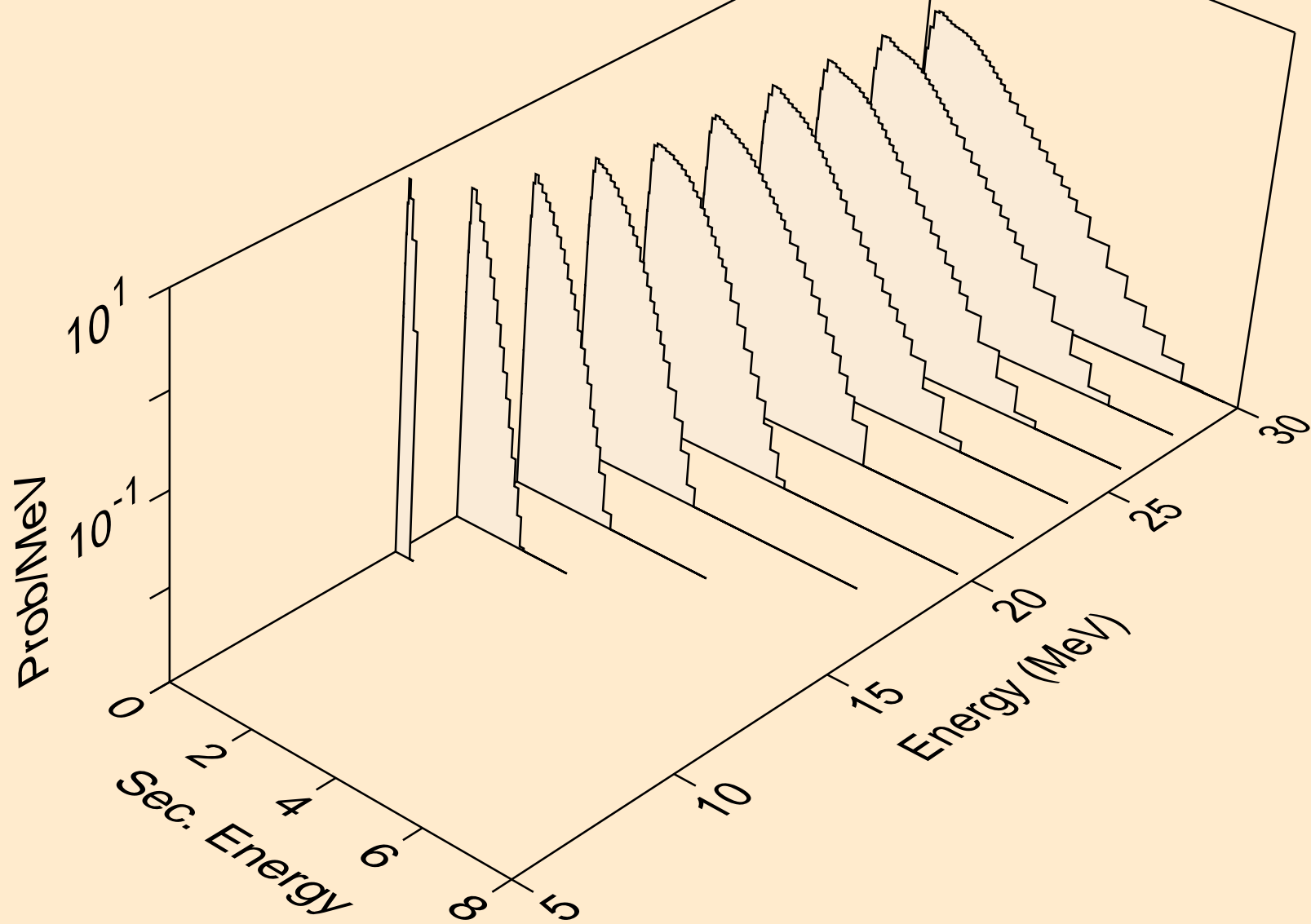


ND137M NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,n\*)a

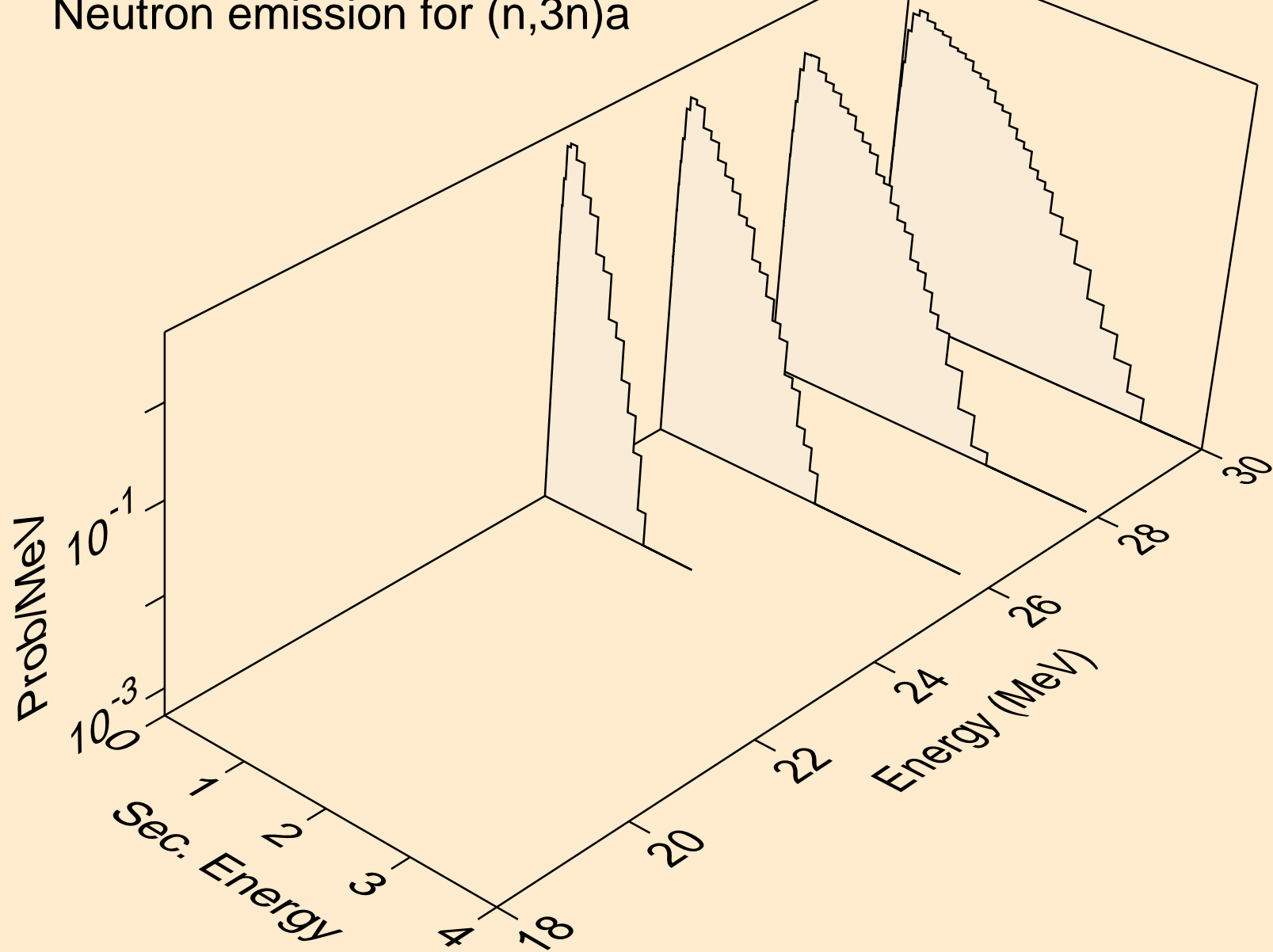




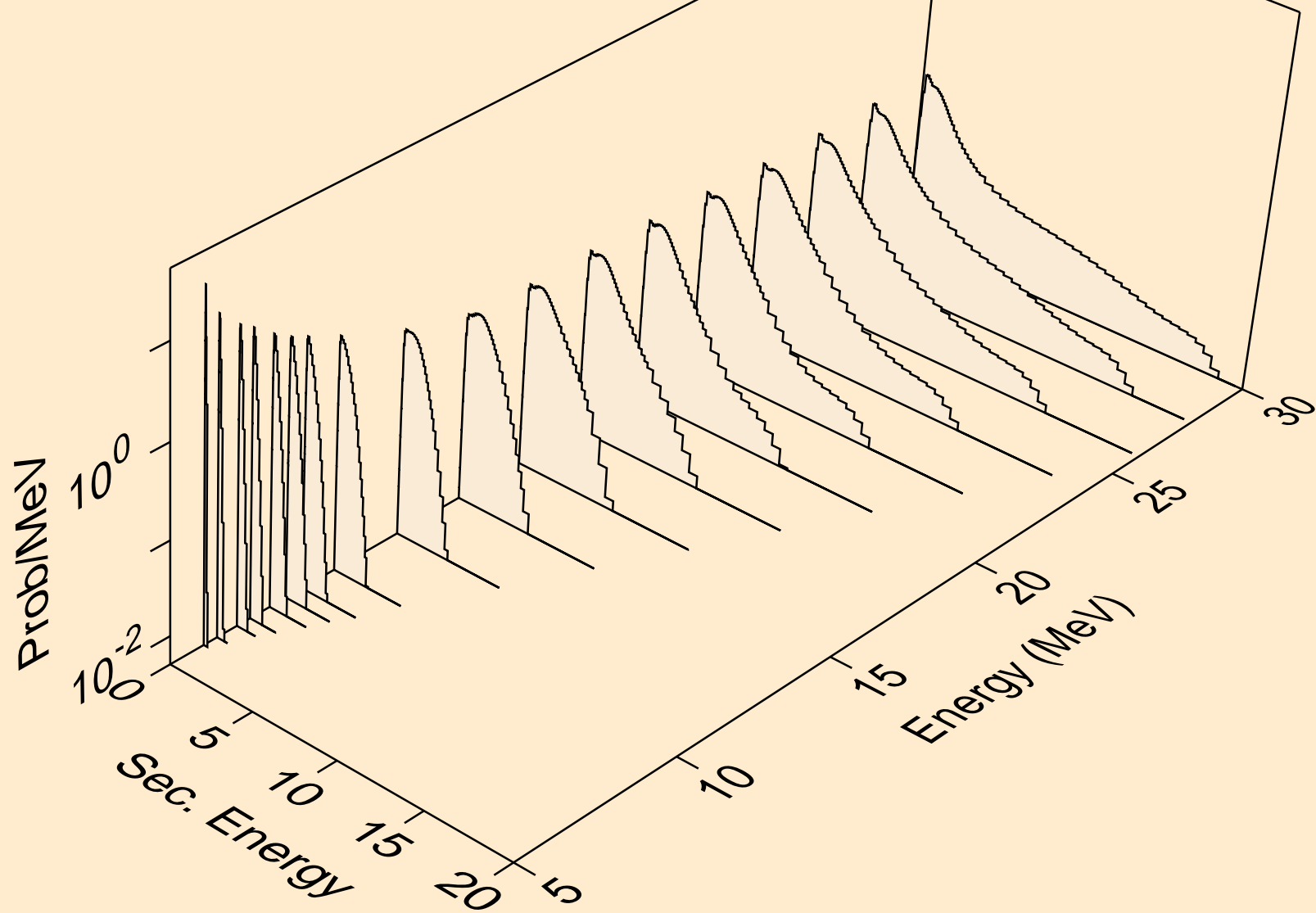
ND137M NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,2n)a



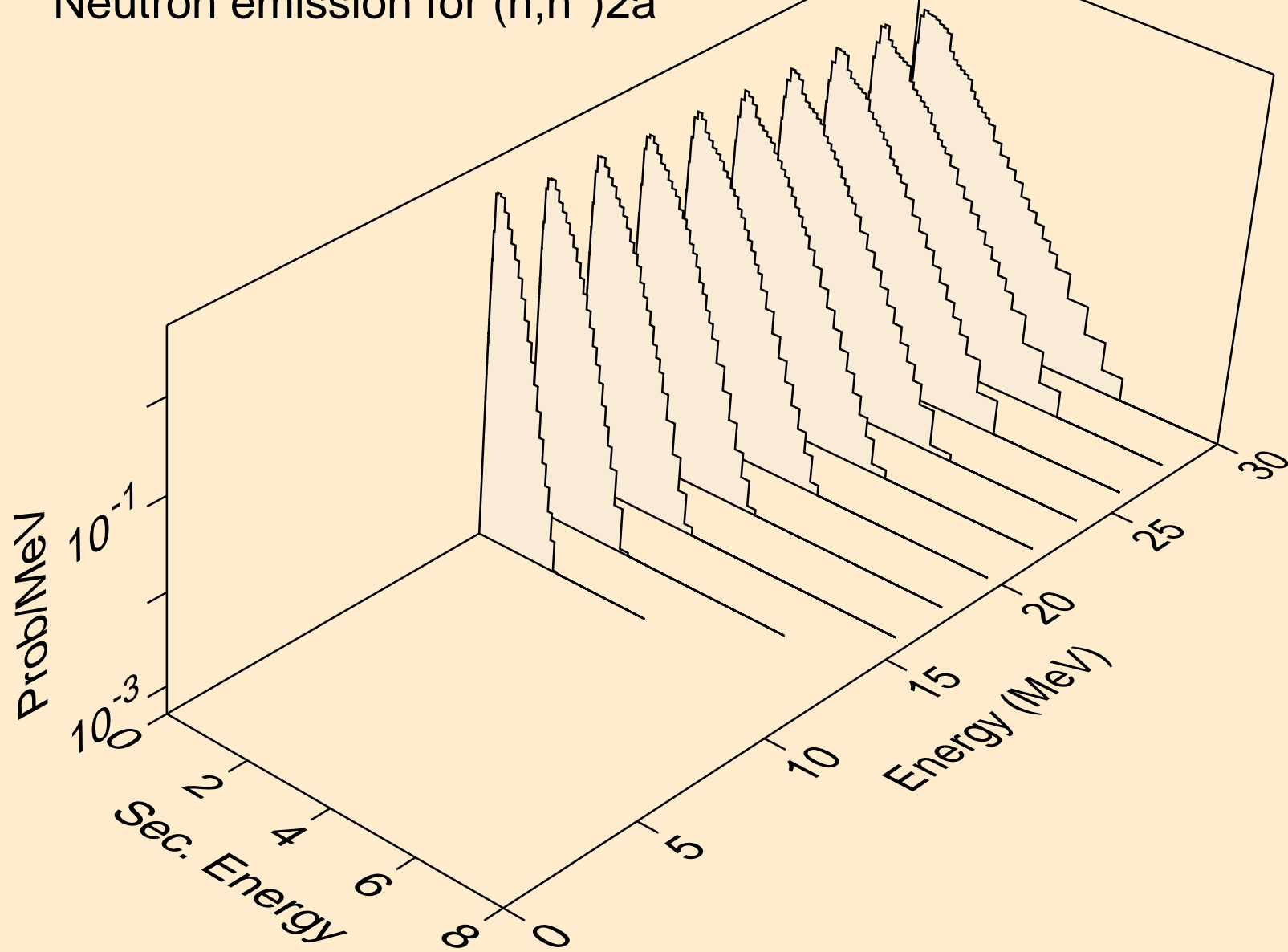
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Neutron emission for (n,3n)a



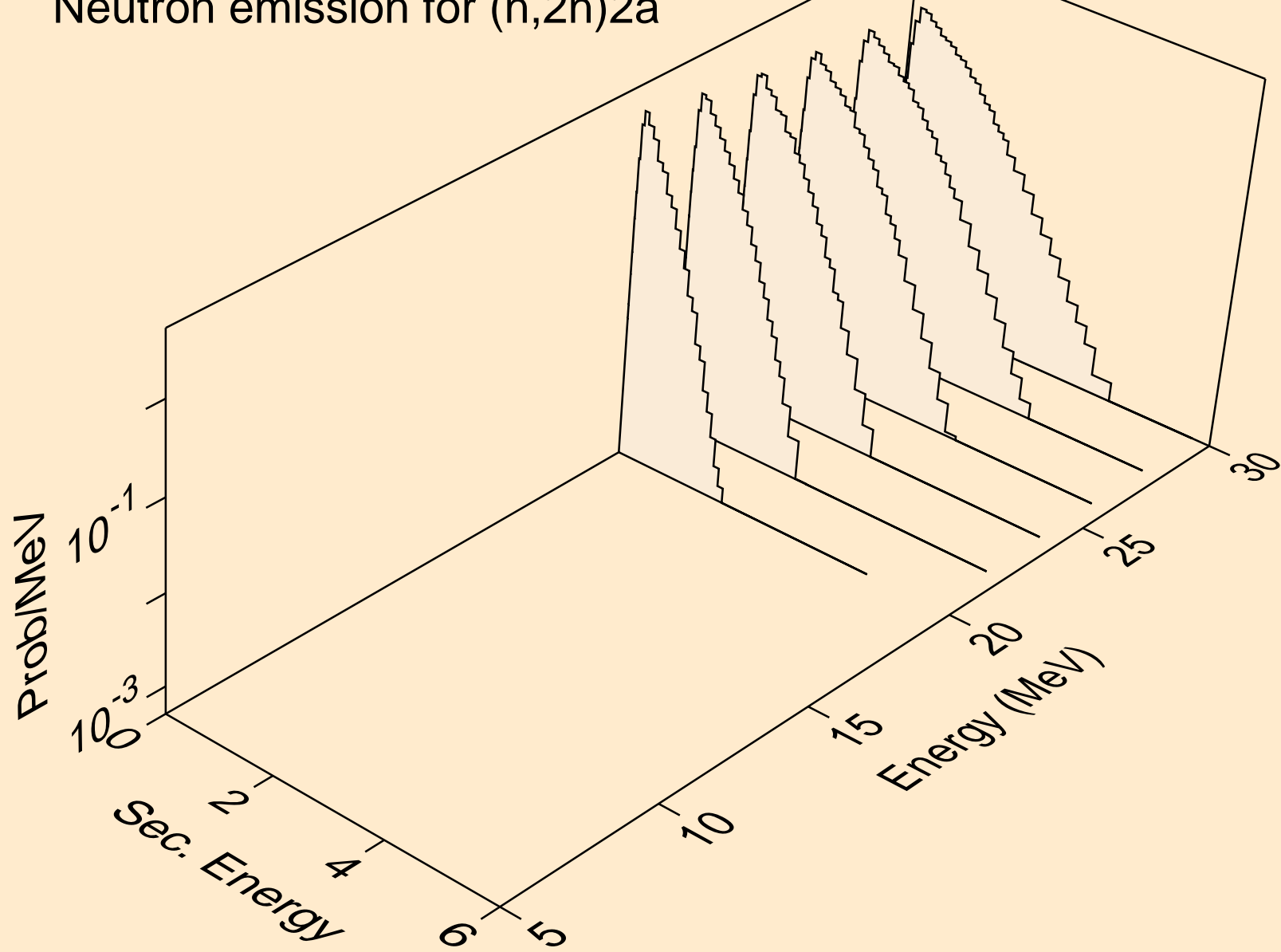
ND137M NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,n\*)p



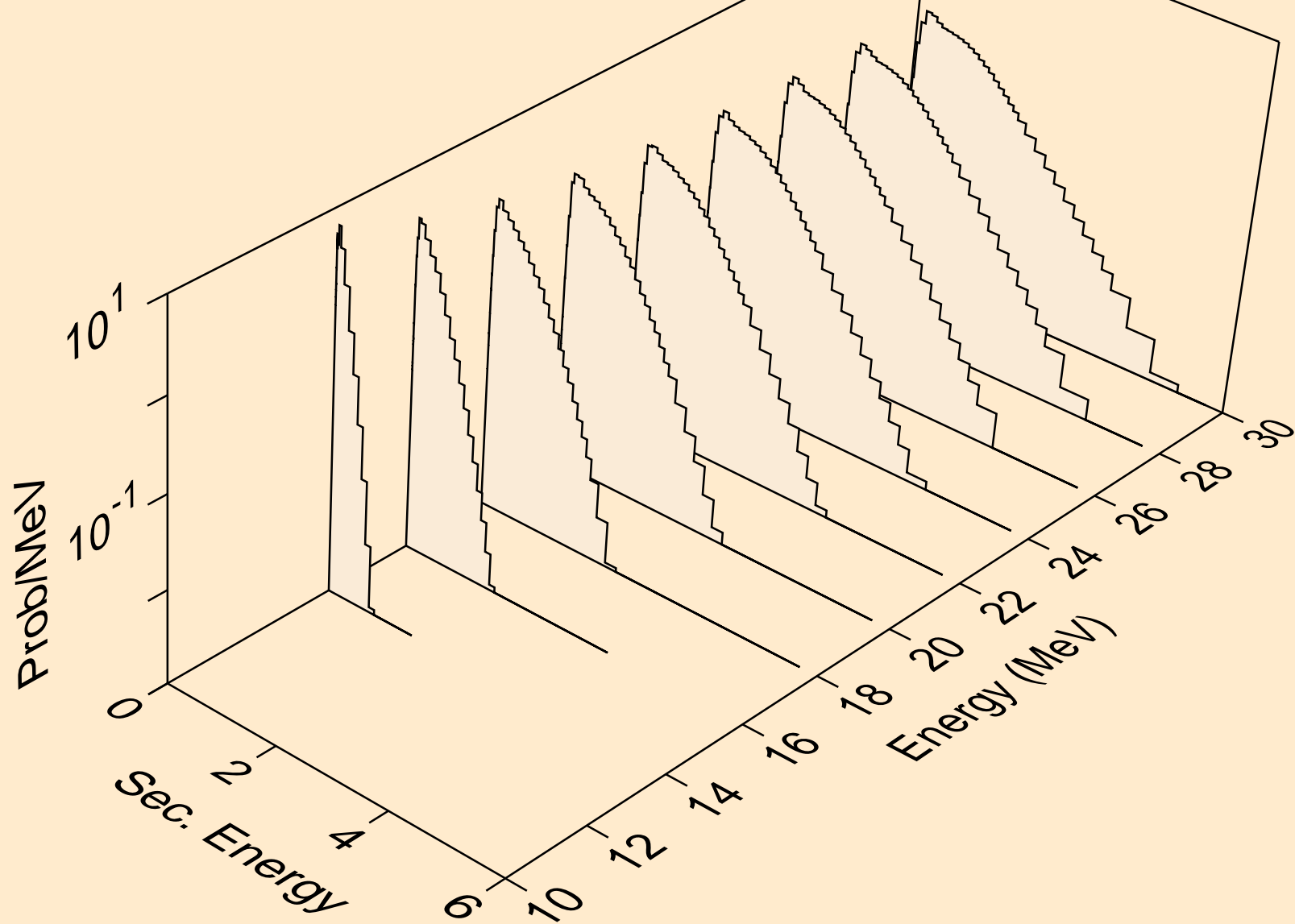
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Neutron emission for (n,n\*)2a



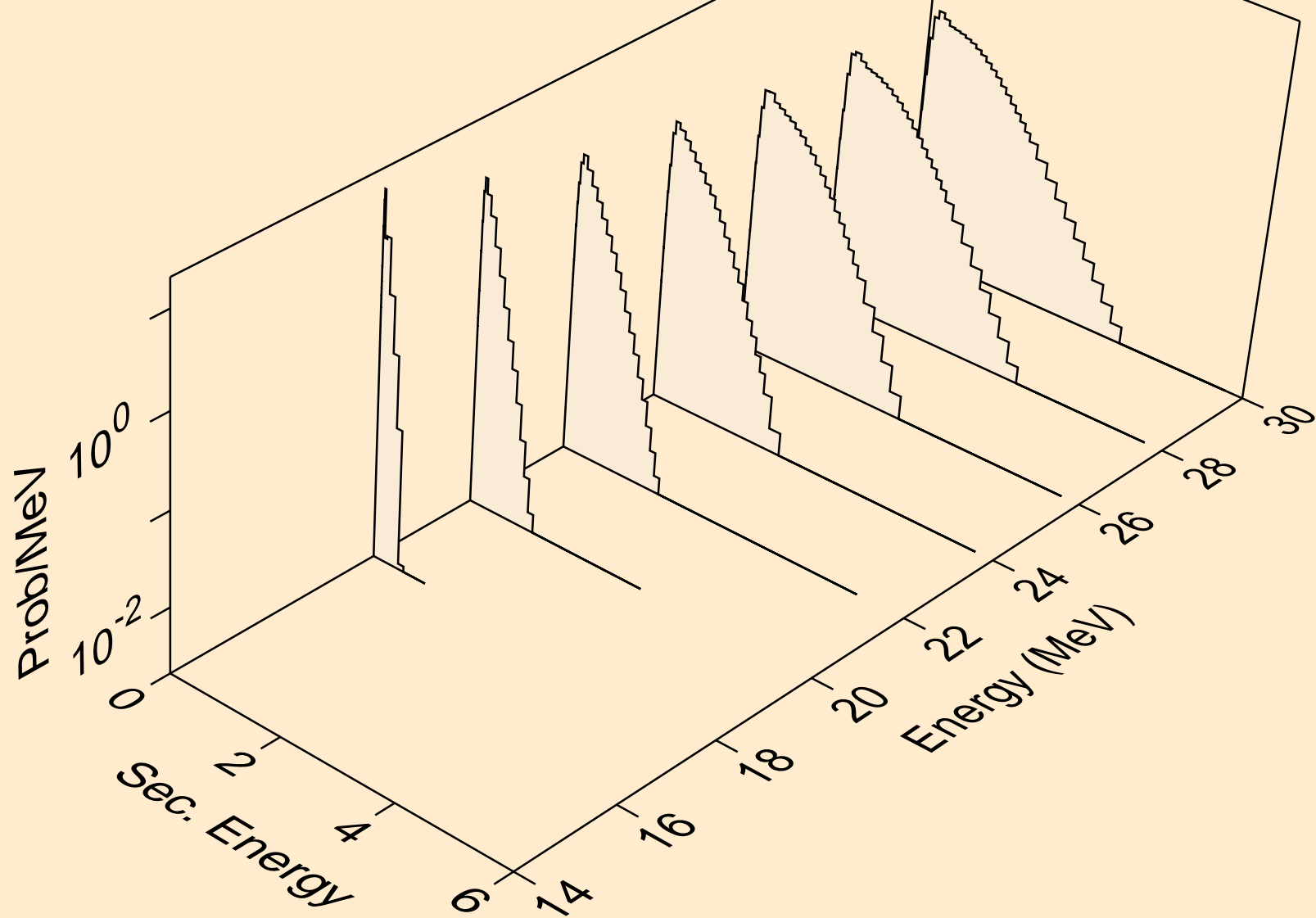
ND137M NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,2n)2a



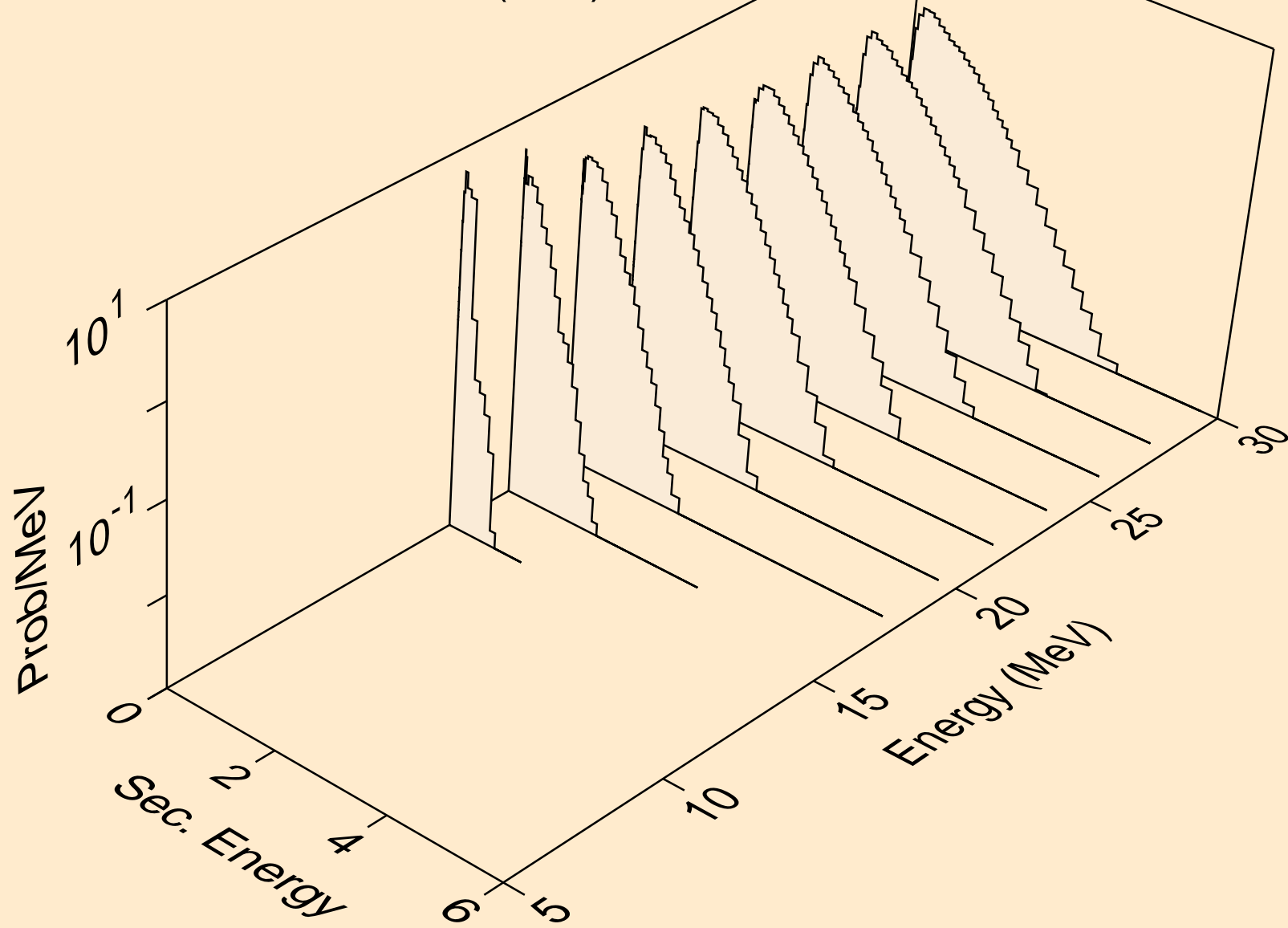
ND137M NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,n\*)d



ND137M NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,n\*)t

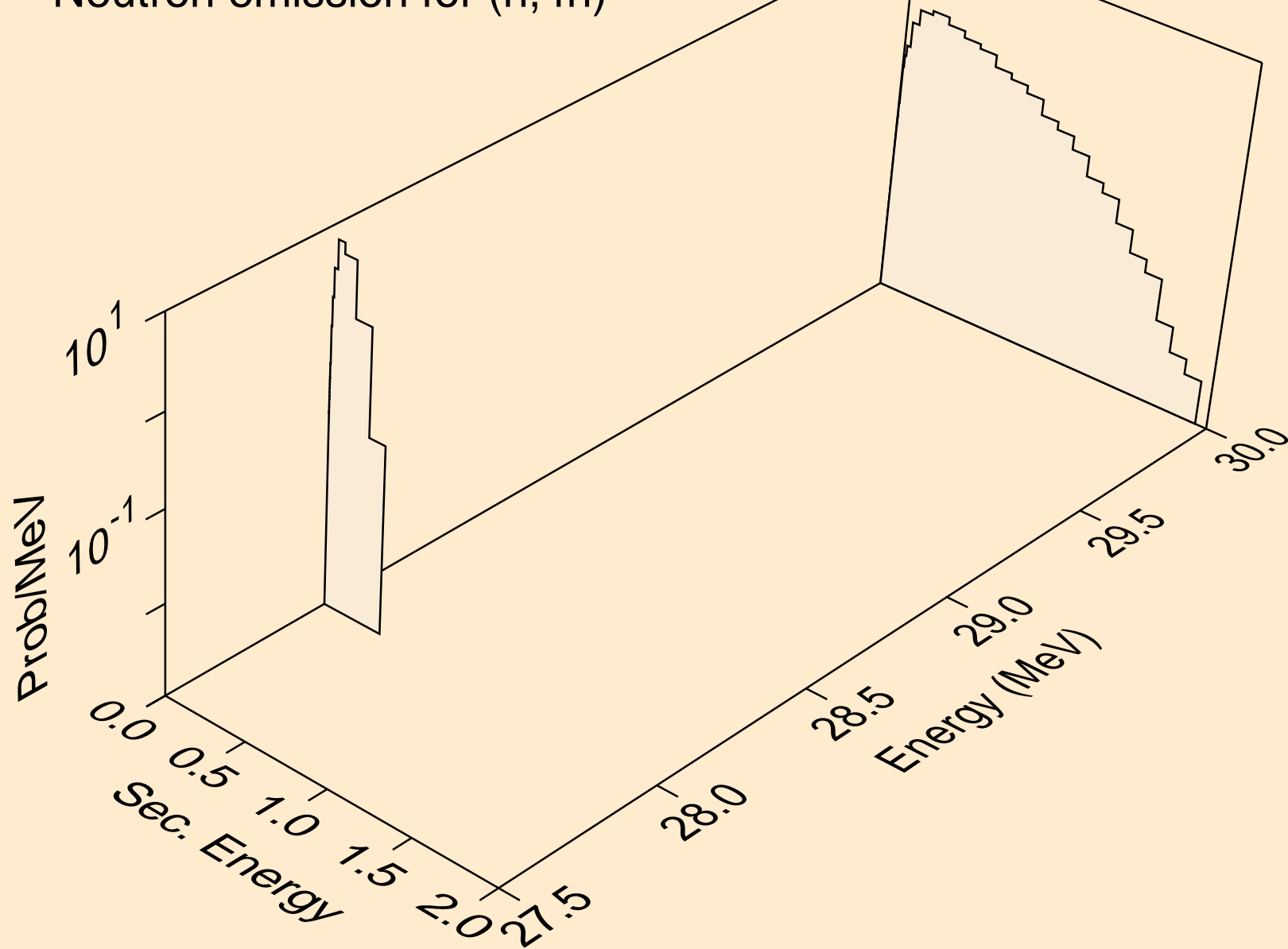


ND137M NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,n\*)he3

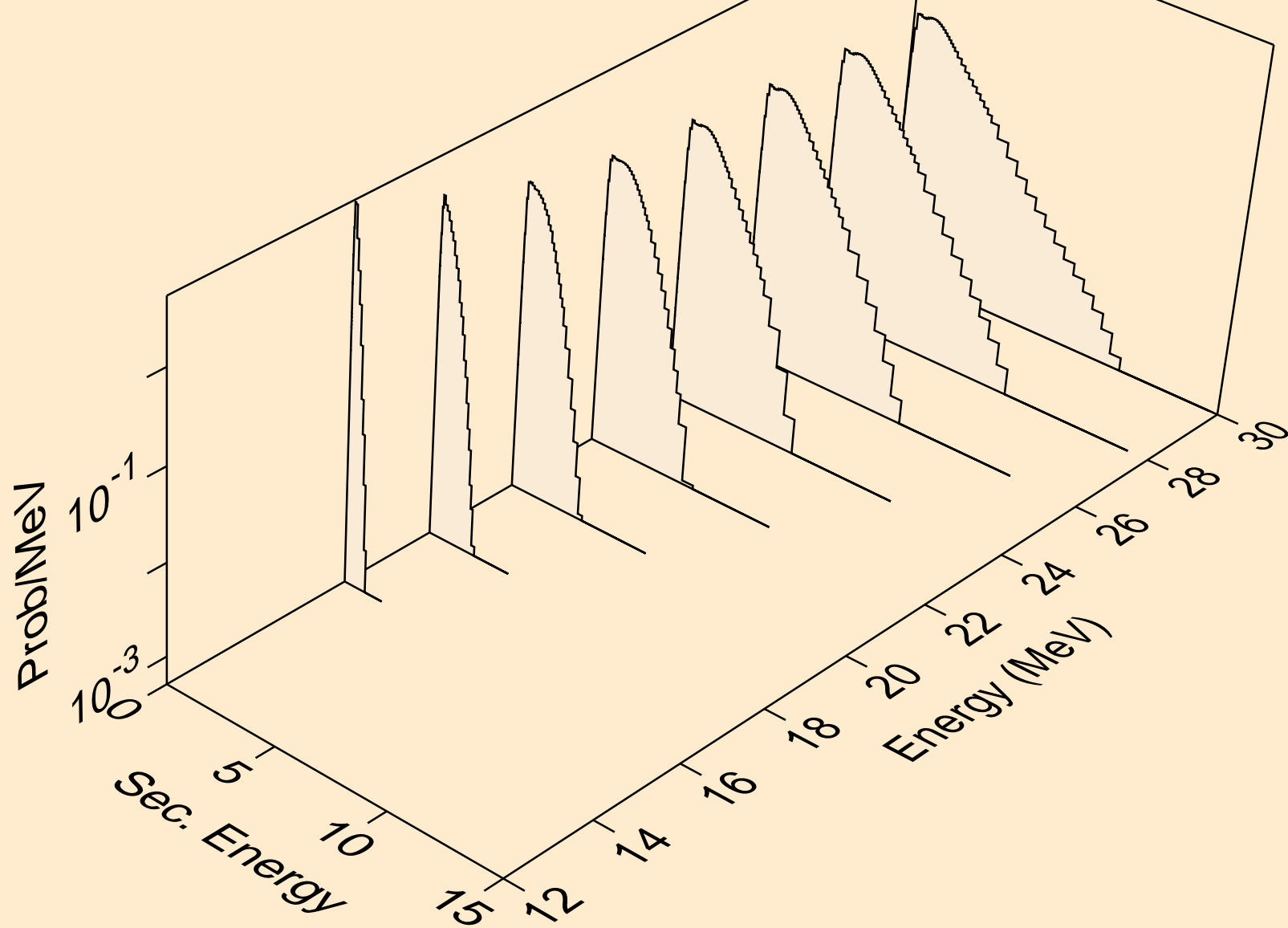




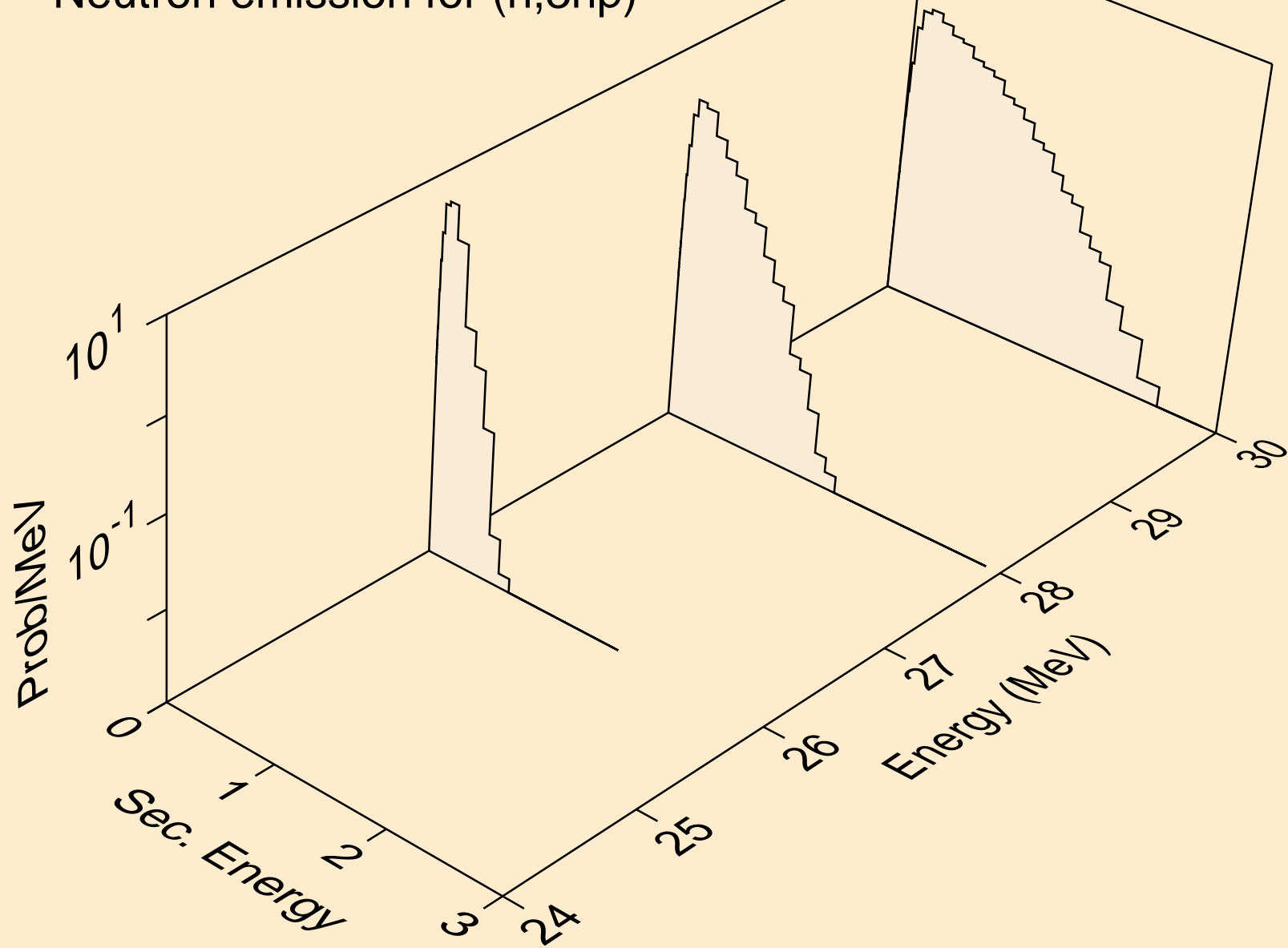
ND137M NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,4n)



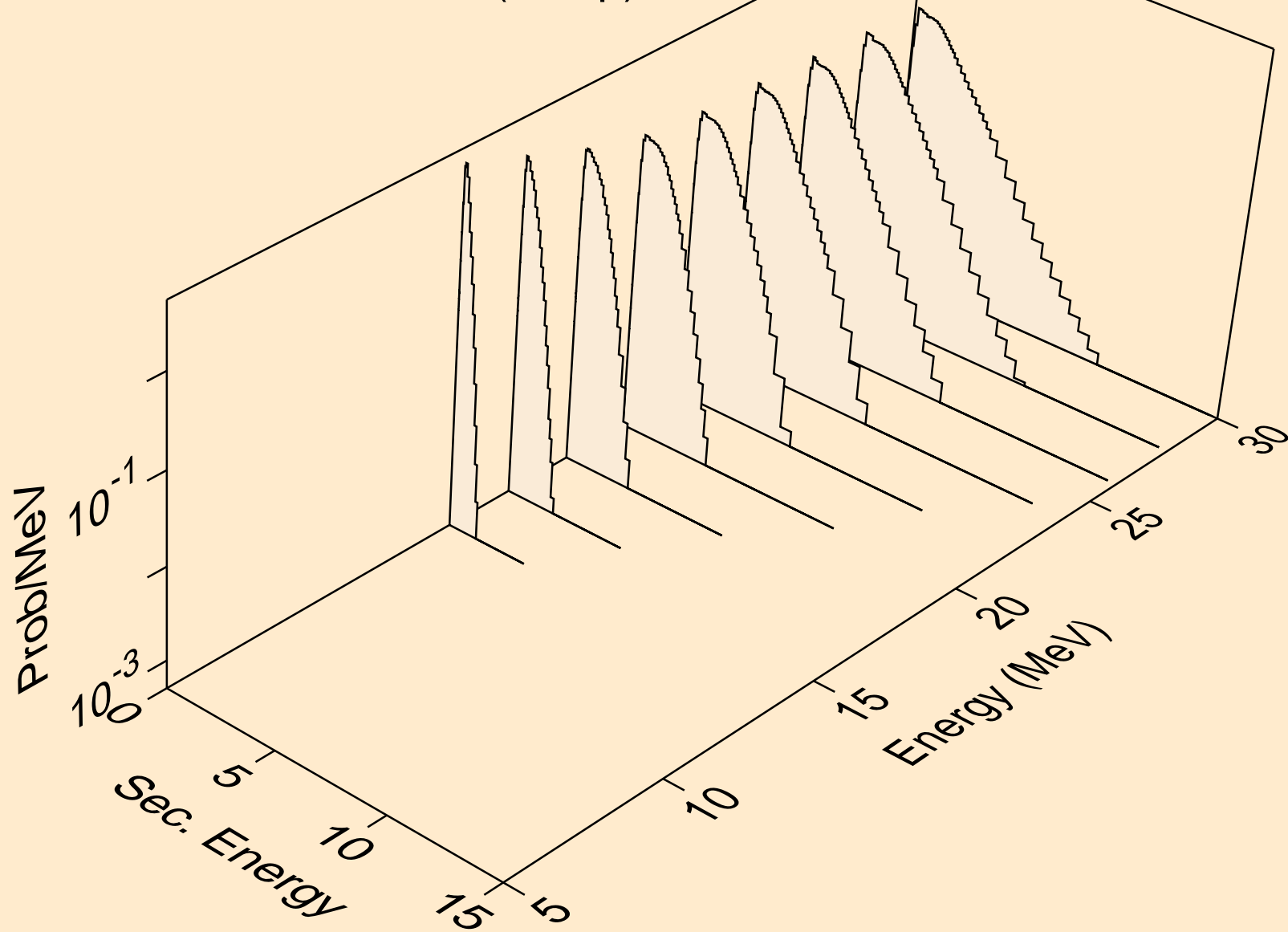
ND137M NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,2np)



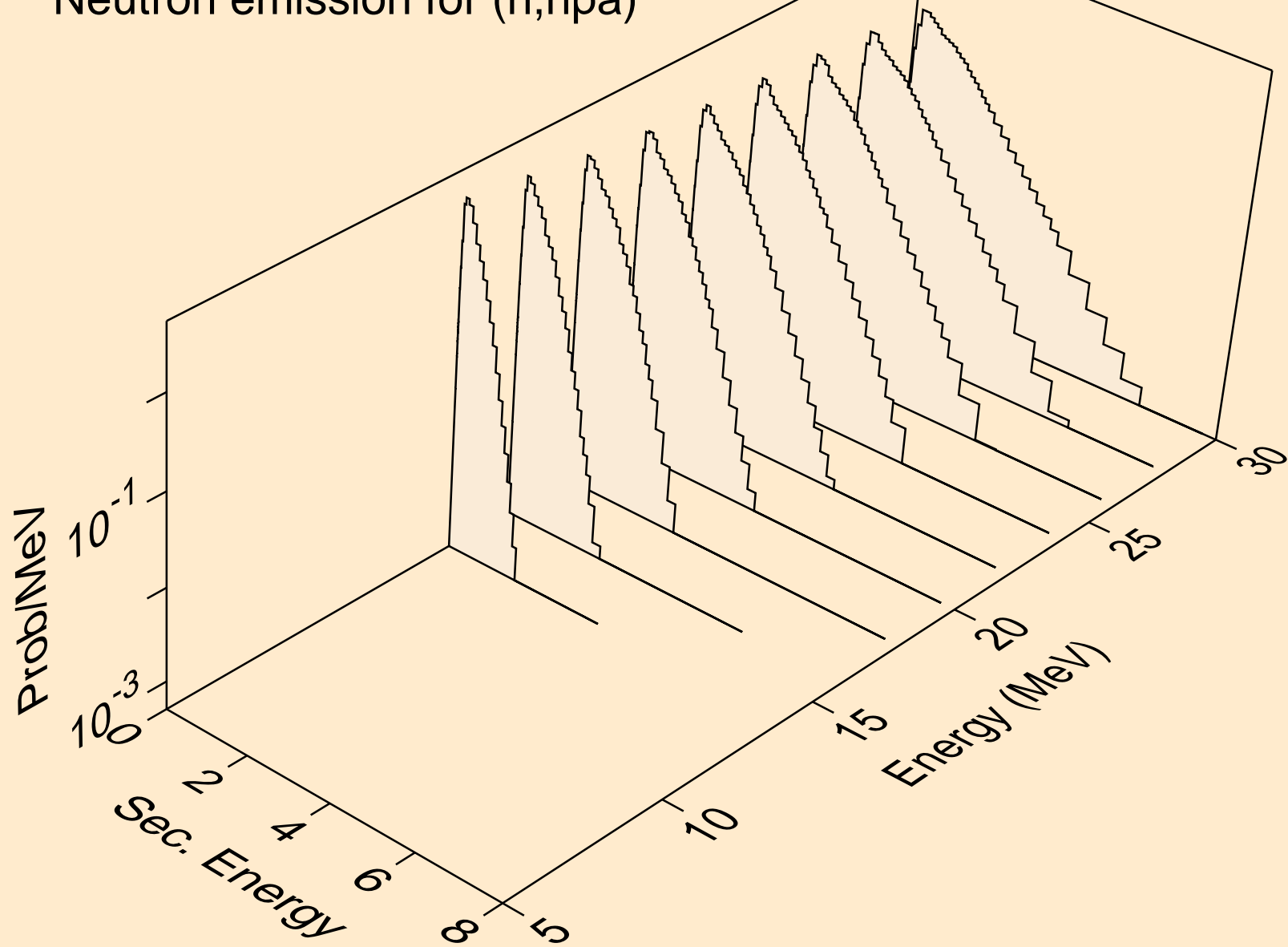
ND137M NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,3np)



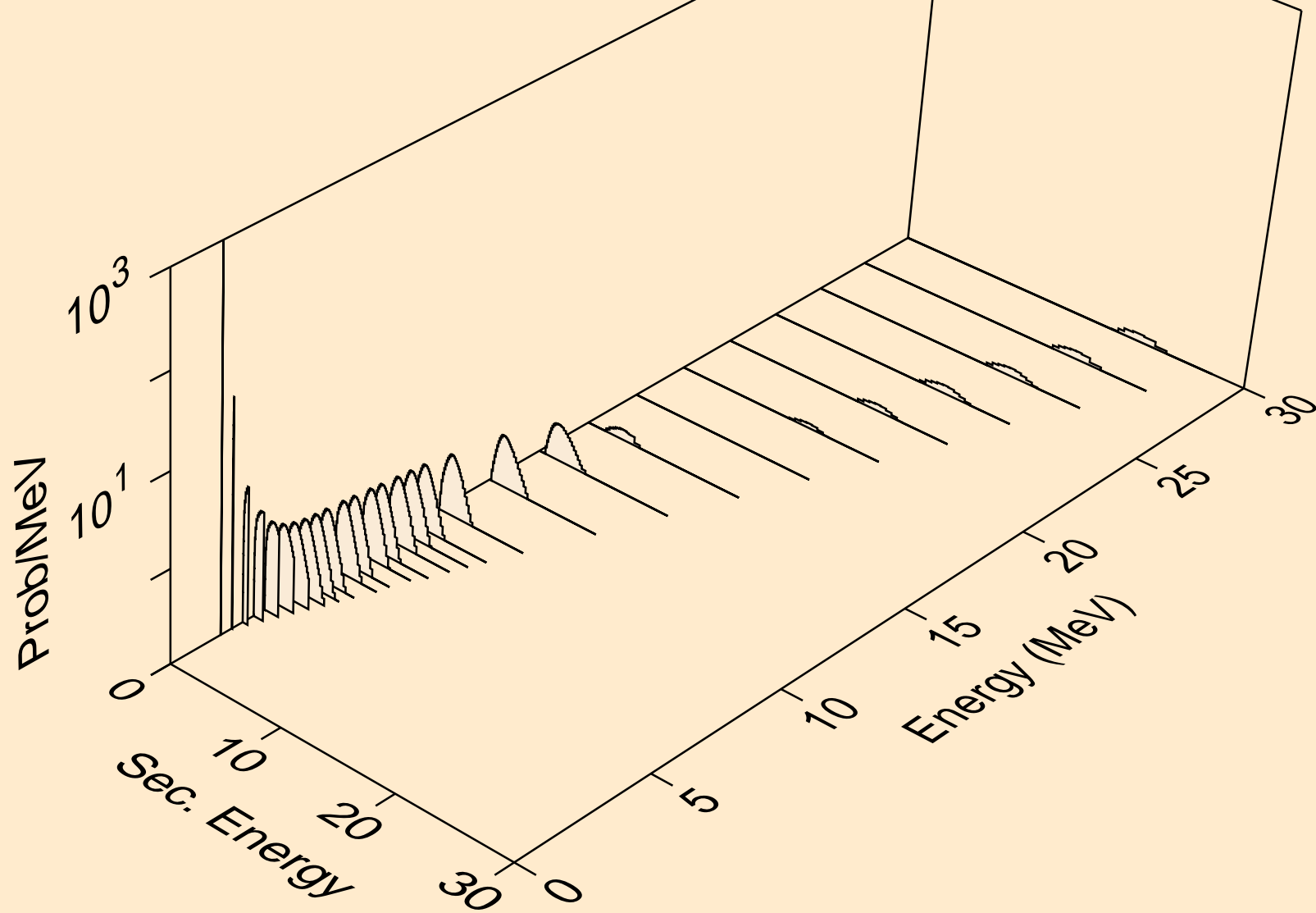
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Neutron emission for (n,n2p)



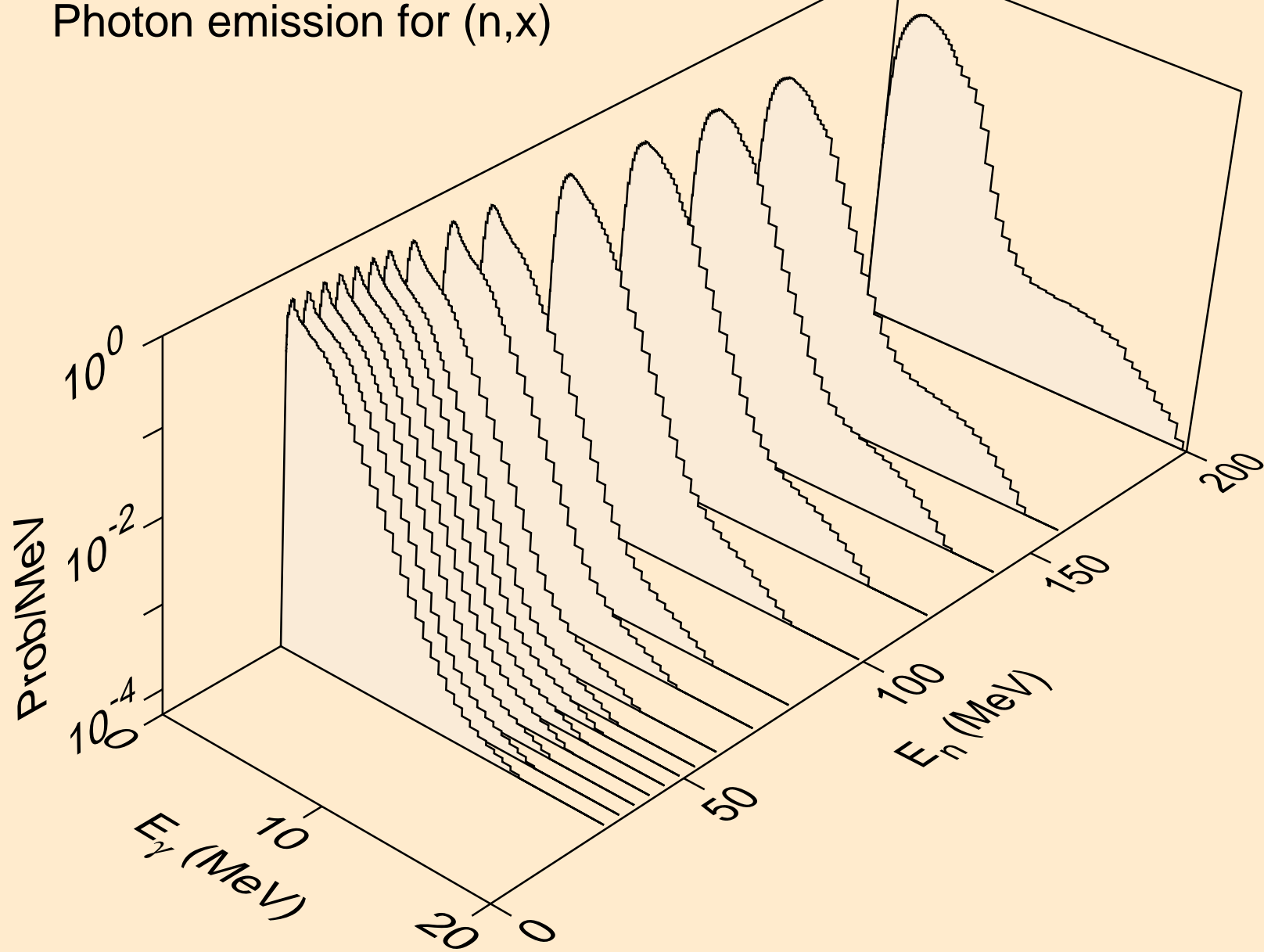
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Neutron emission for (n,npa)



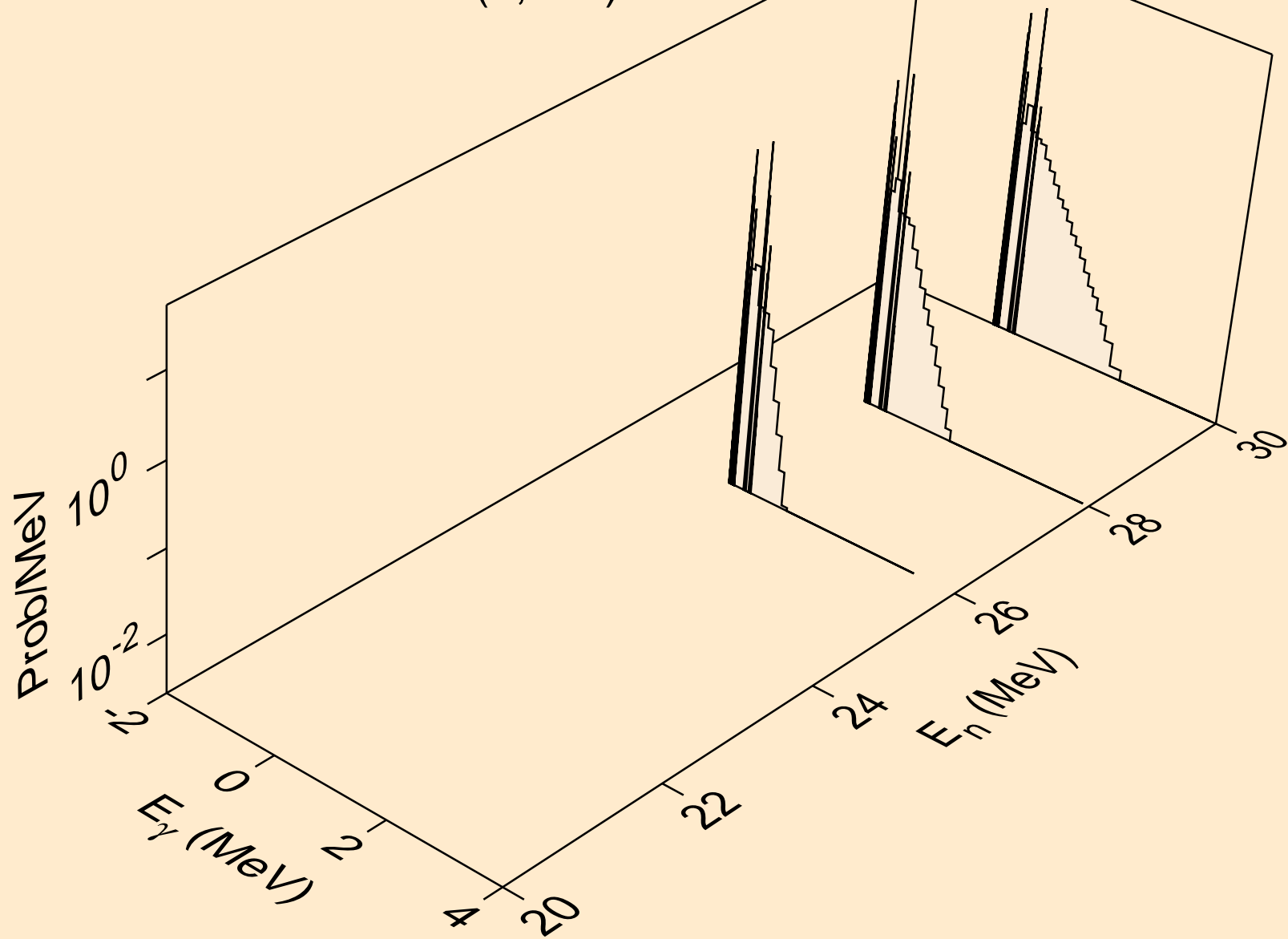
ND137M NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,n\*c)



ND137M NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,x)

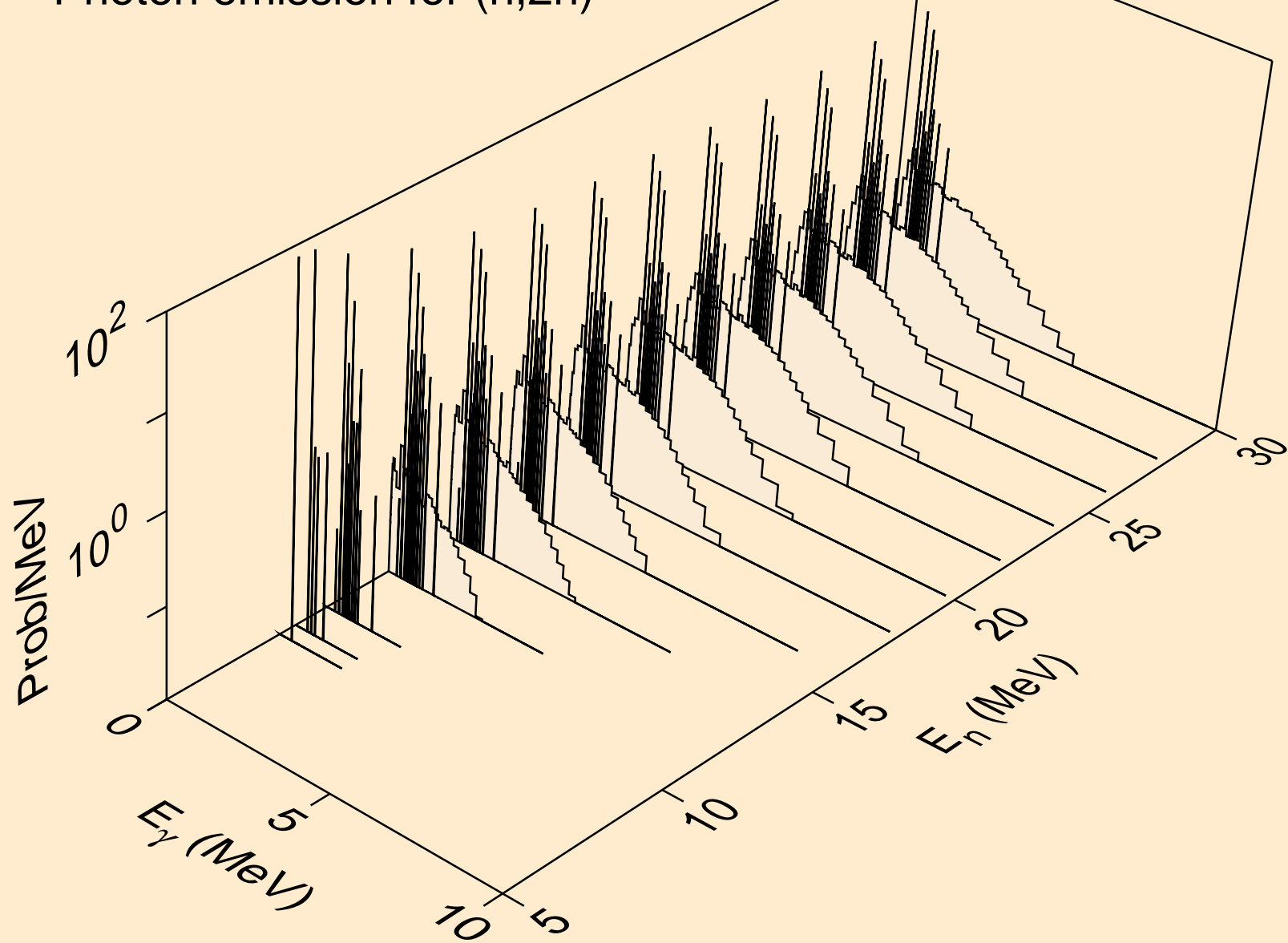


ND137M NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,2nd)

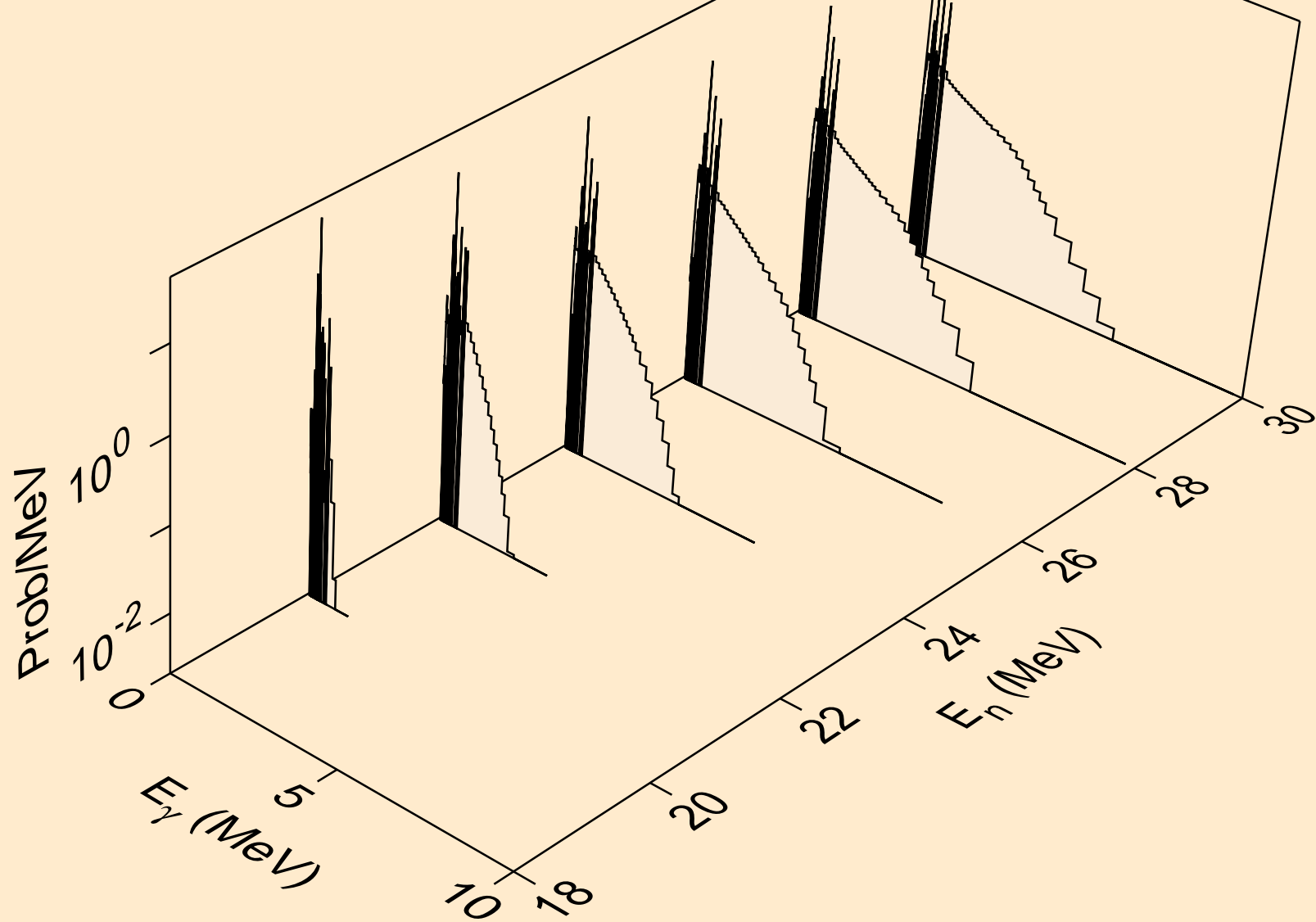




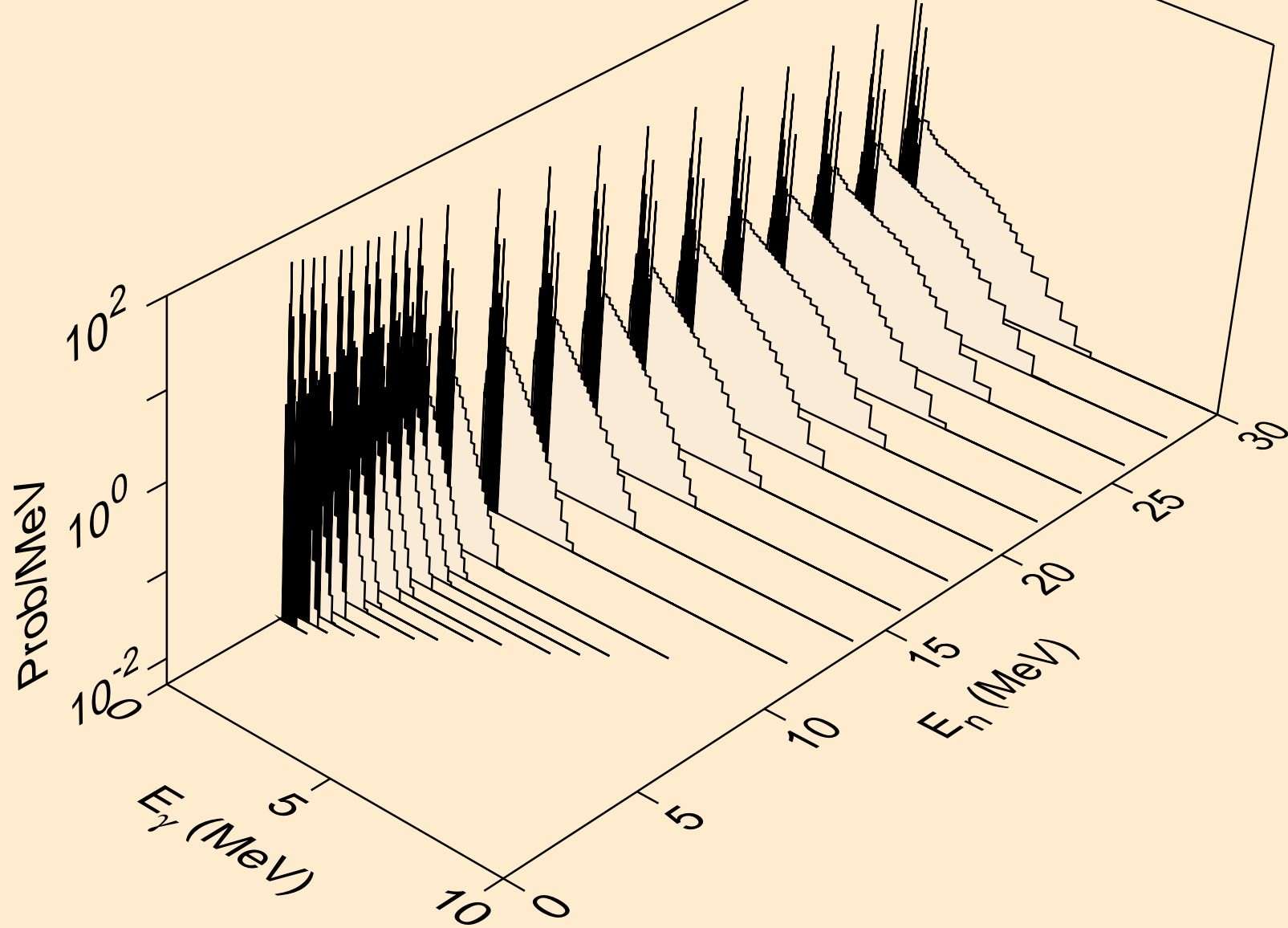
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Photon emission for (n,2n)



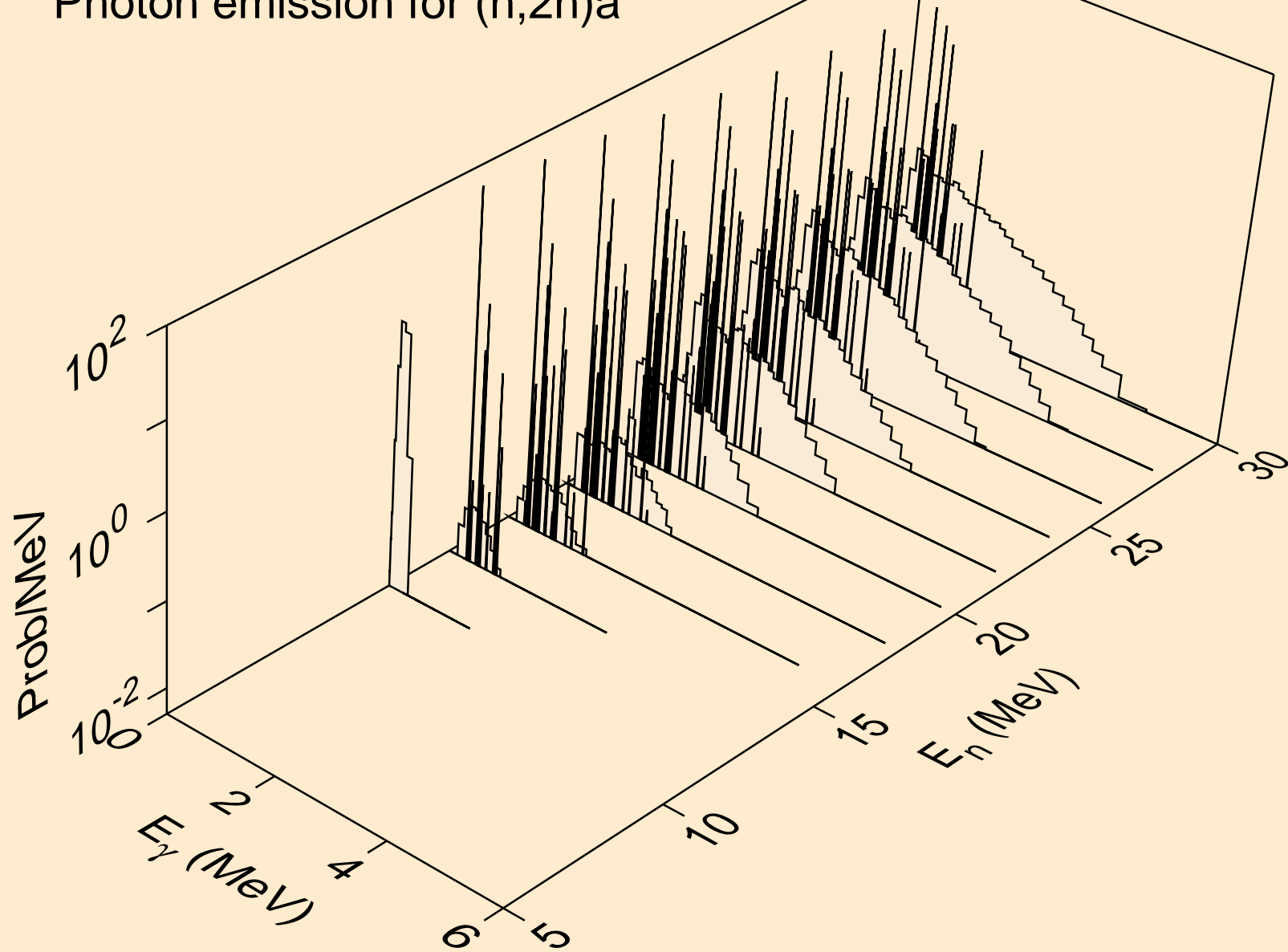
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Photon emission for (n,3n)



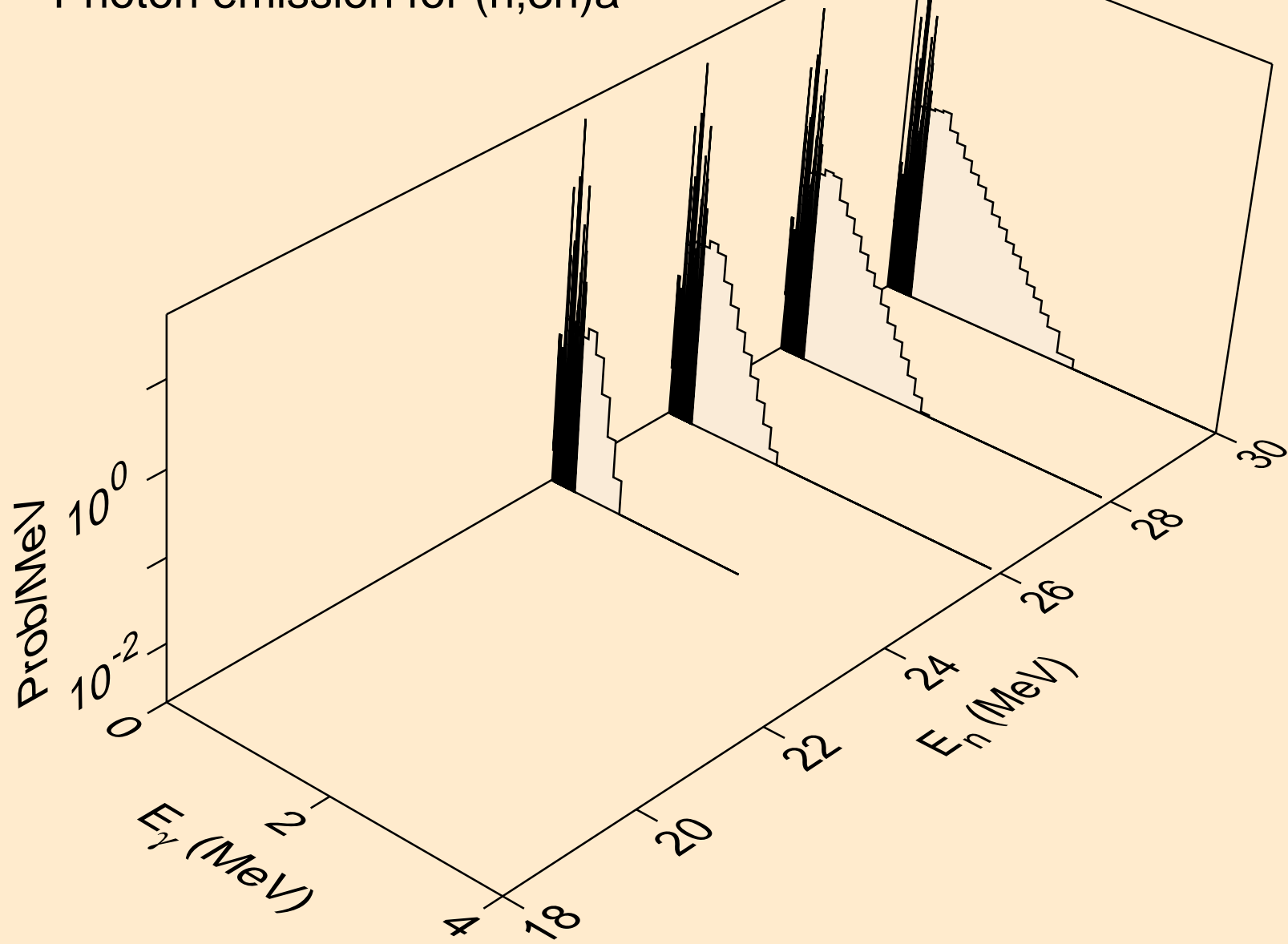
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Photon emission for (n,n\*)a



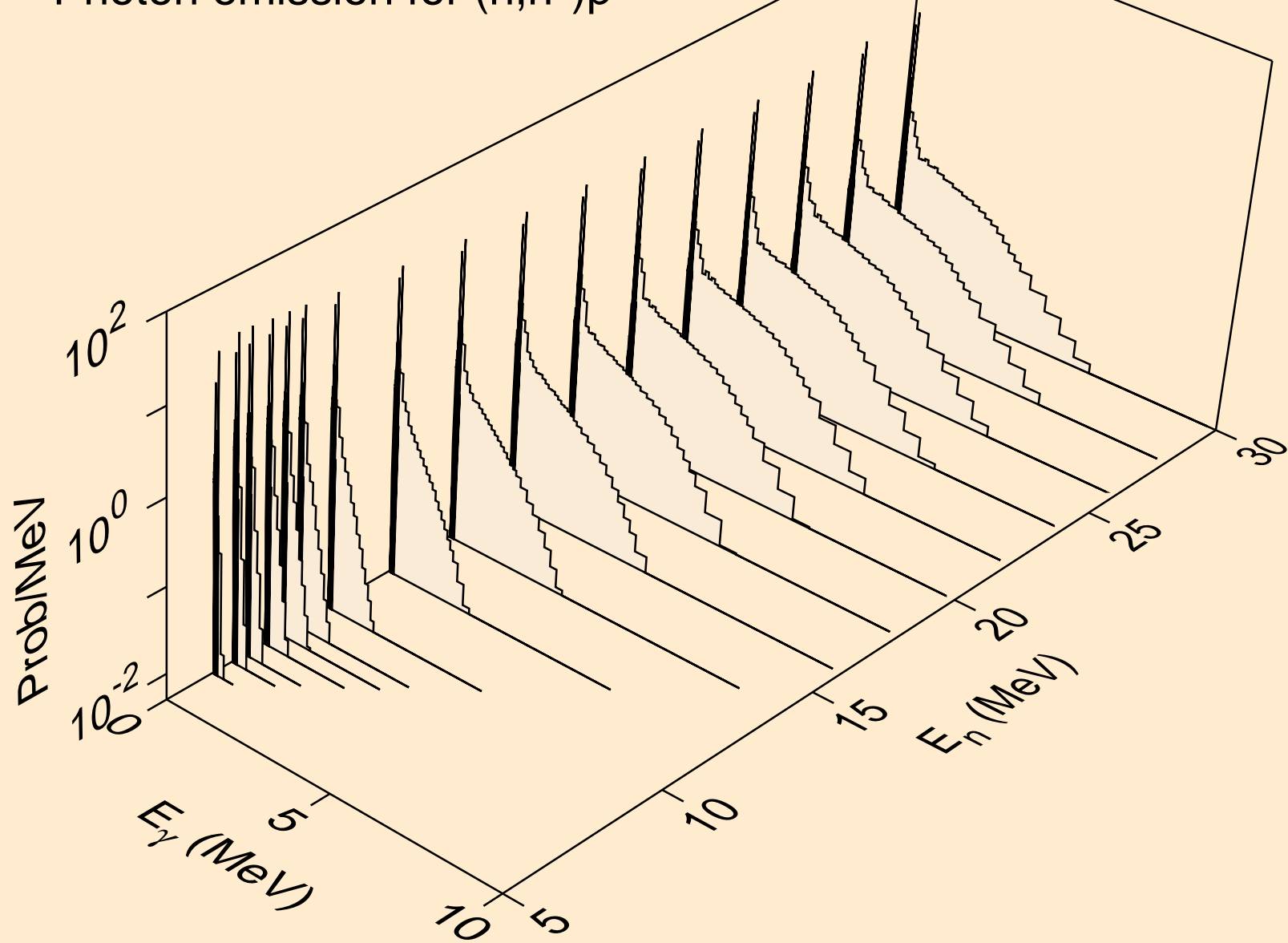
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Photon emission for (n,2n)a



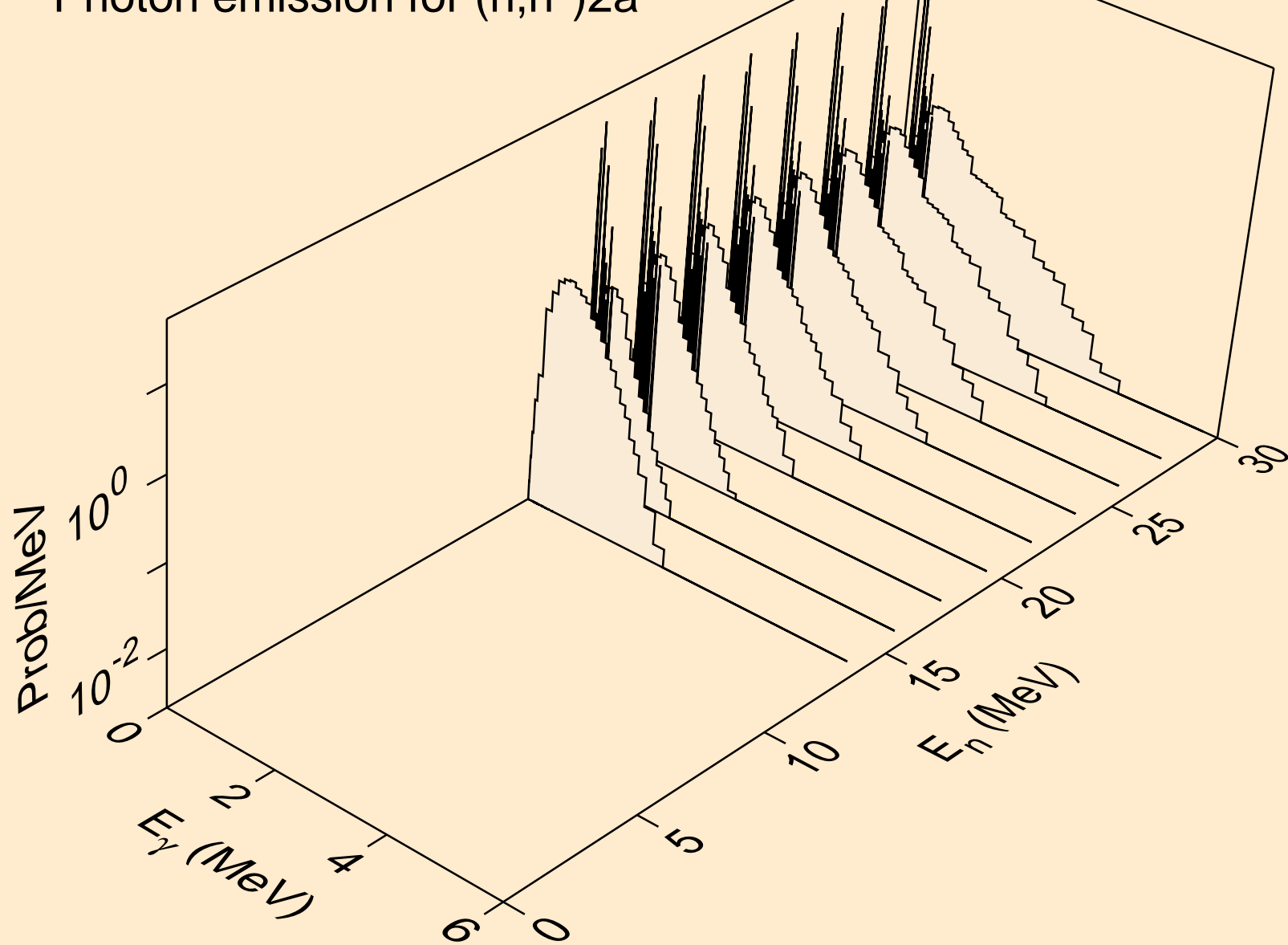
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Photon emission for (n,3n)a



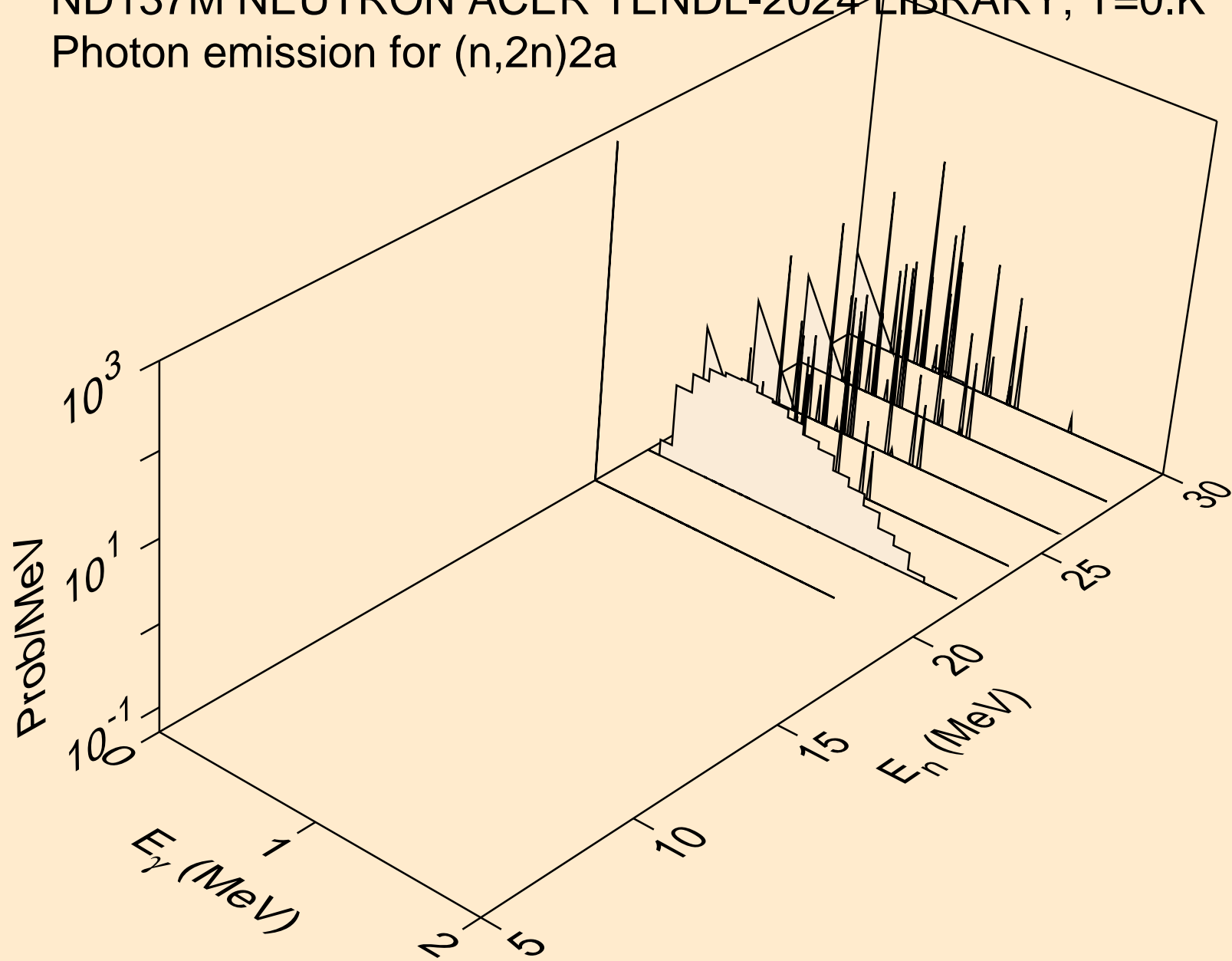
ND137M NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,n\*)p



ND137M NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,n\*)2a

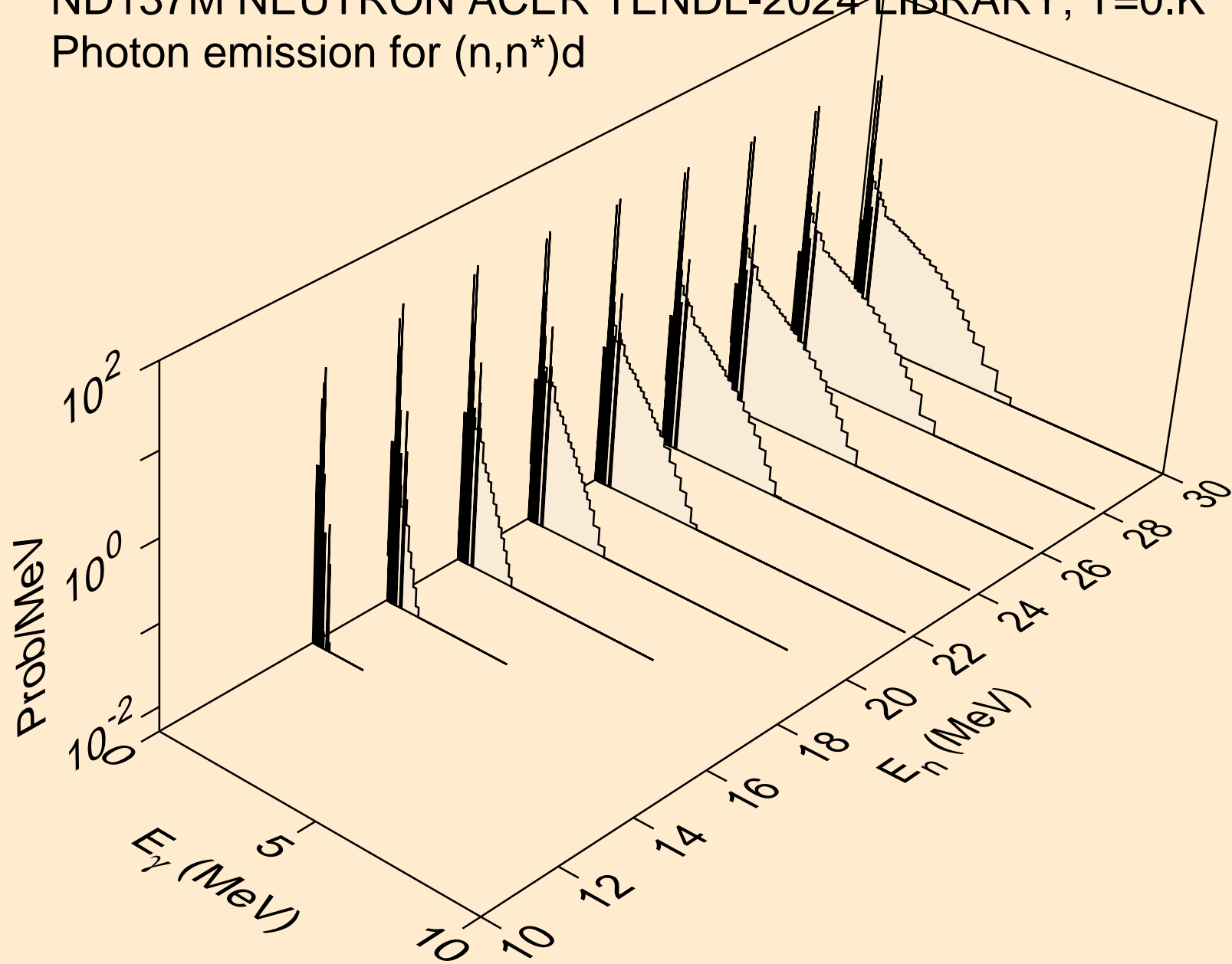


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Photon emission for (n,2n)2a

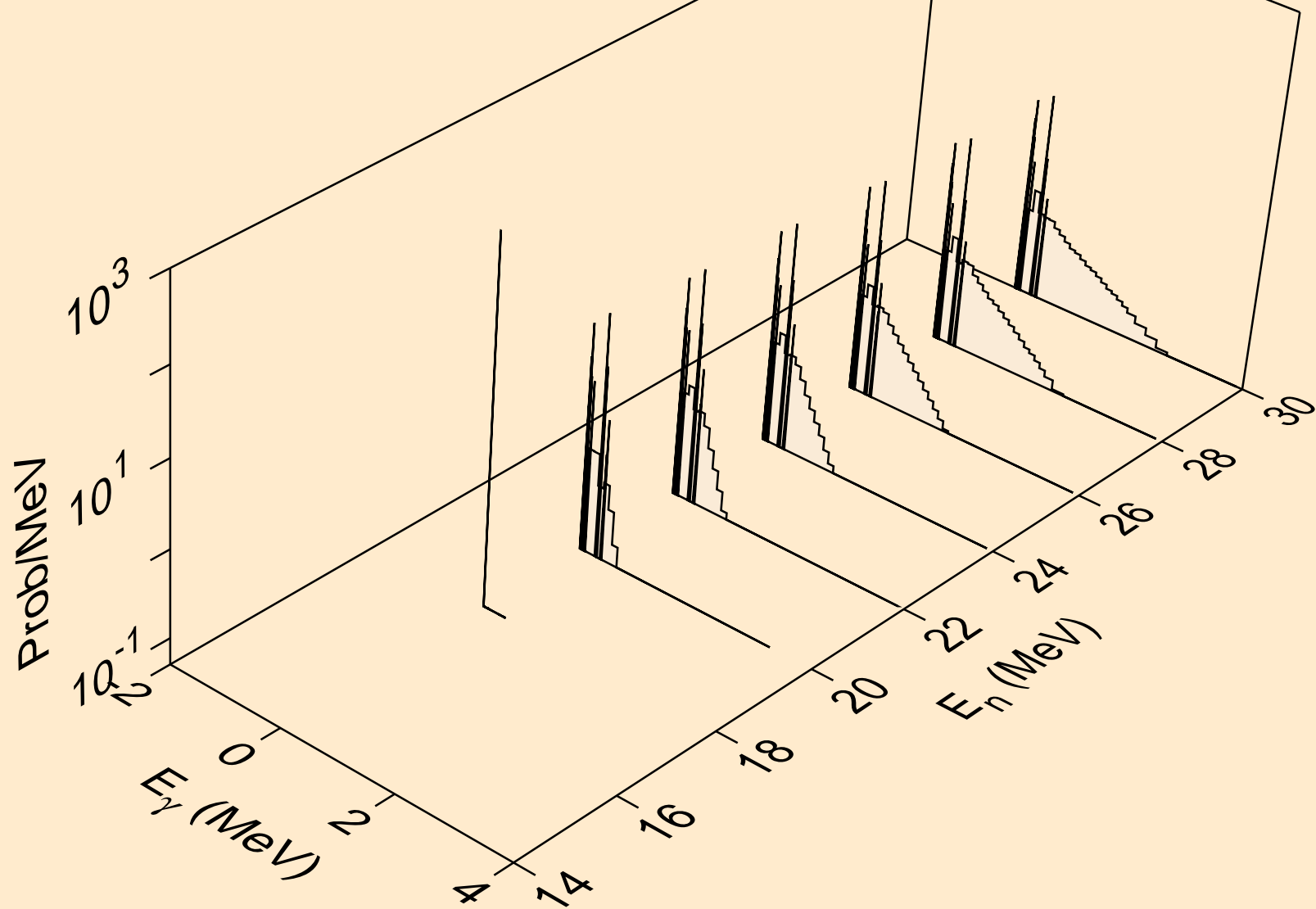




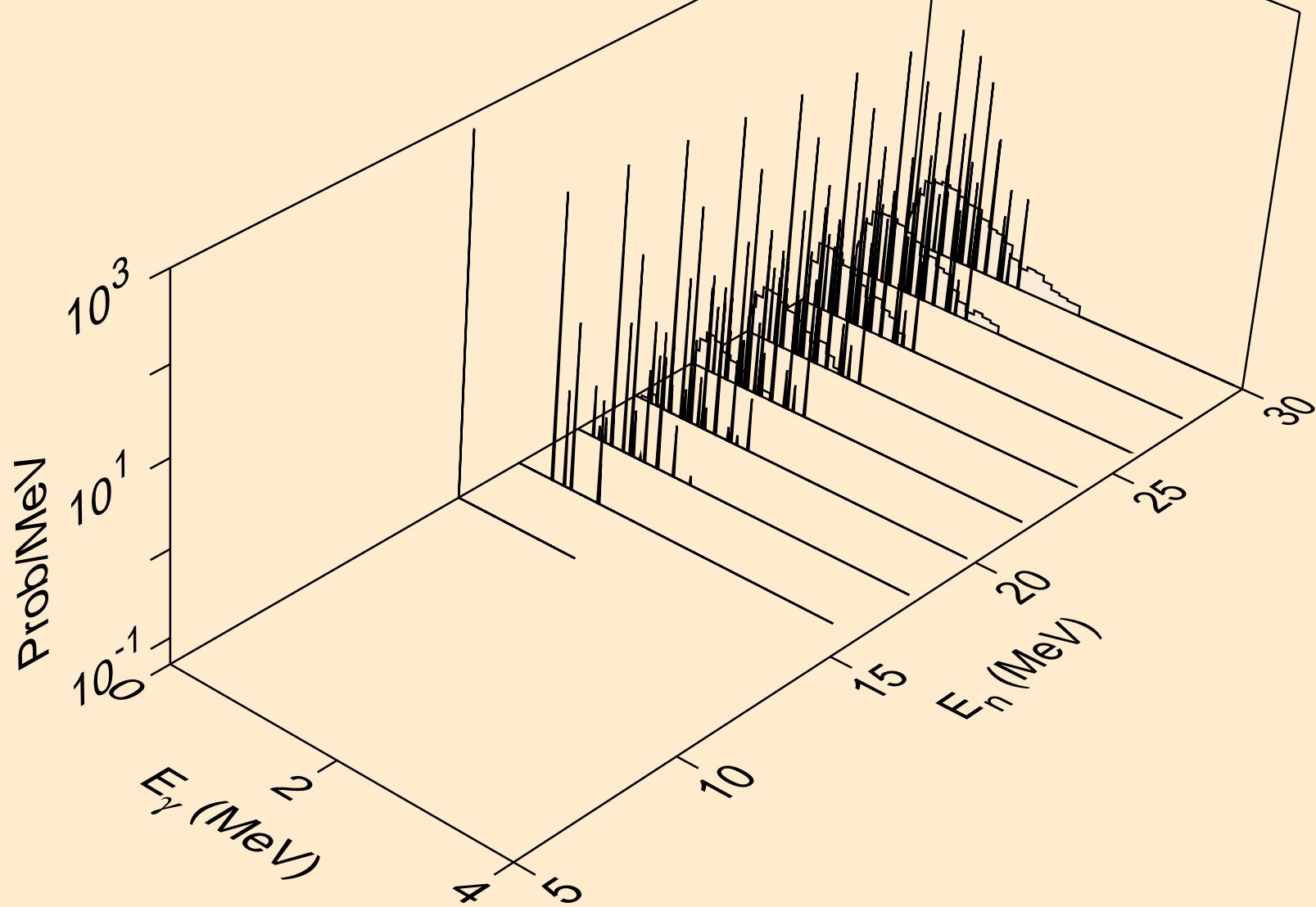
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Photon emission for (n,n\*)d



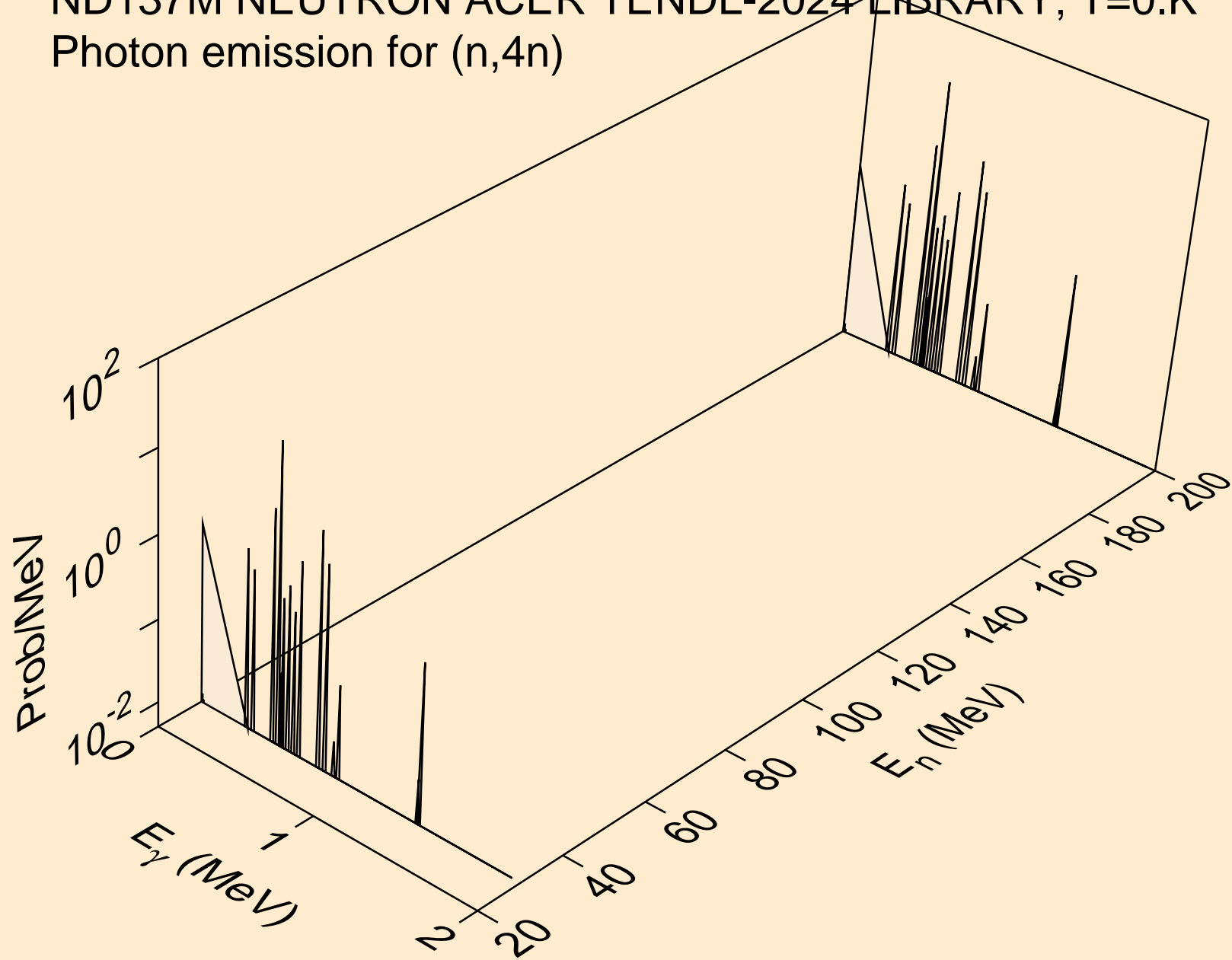
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Photon emission for (n,n\*)t



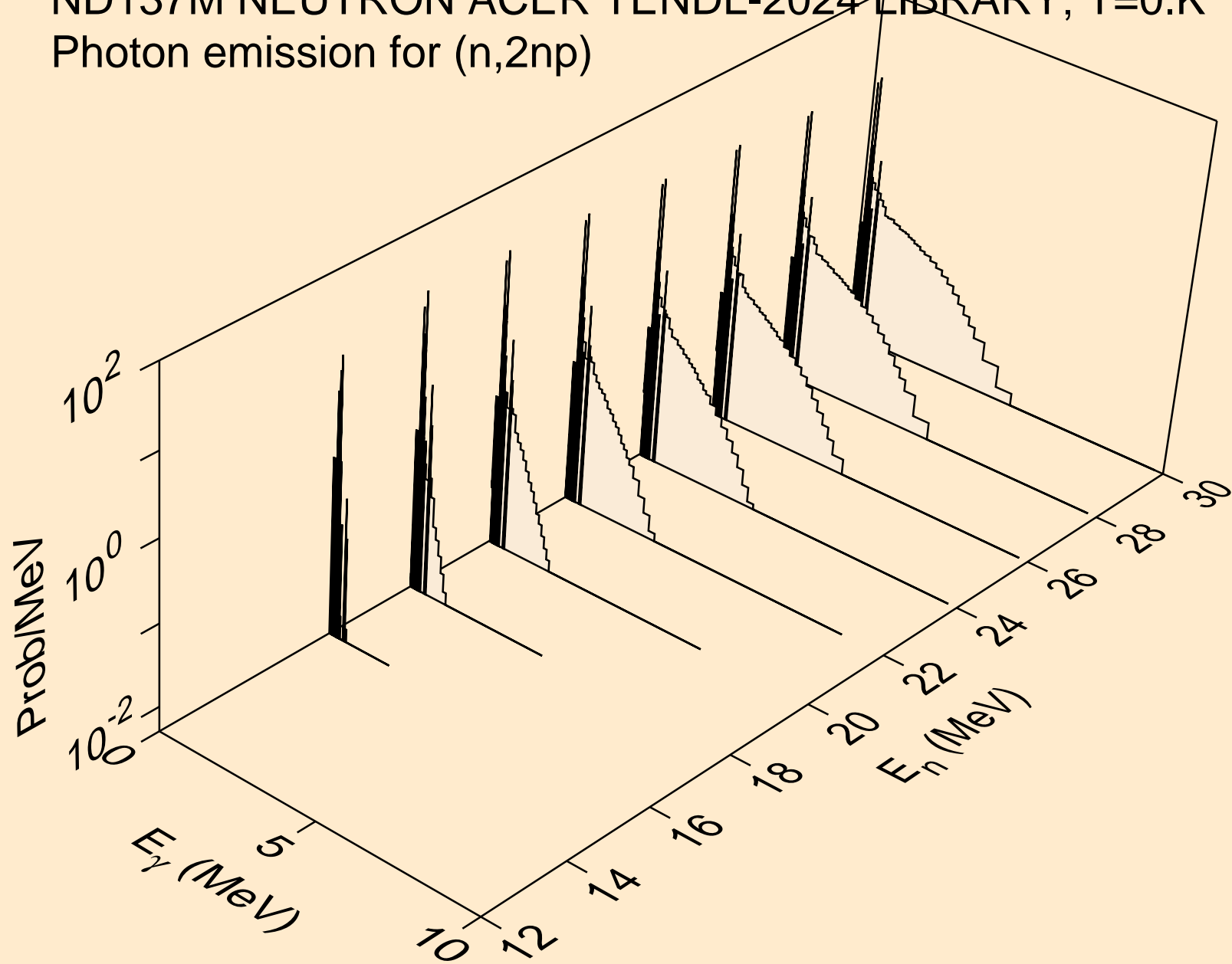
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Photon emission for (n,n\*)he3



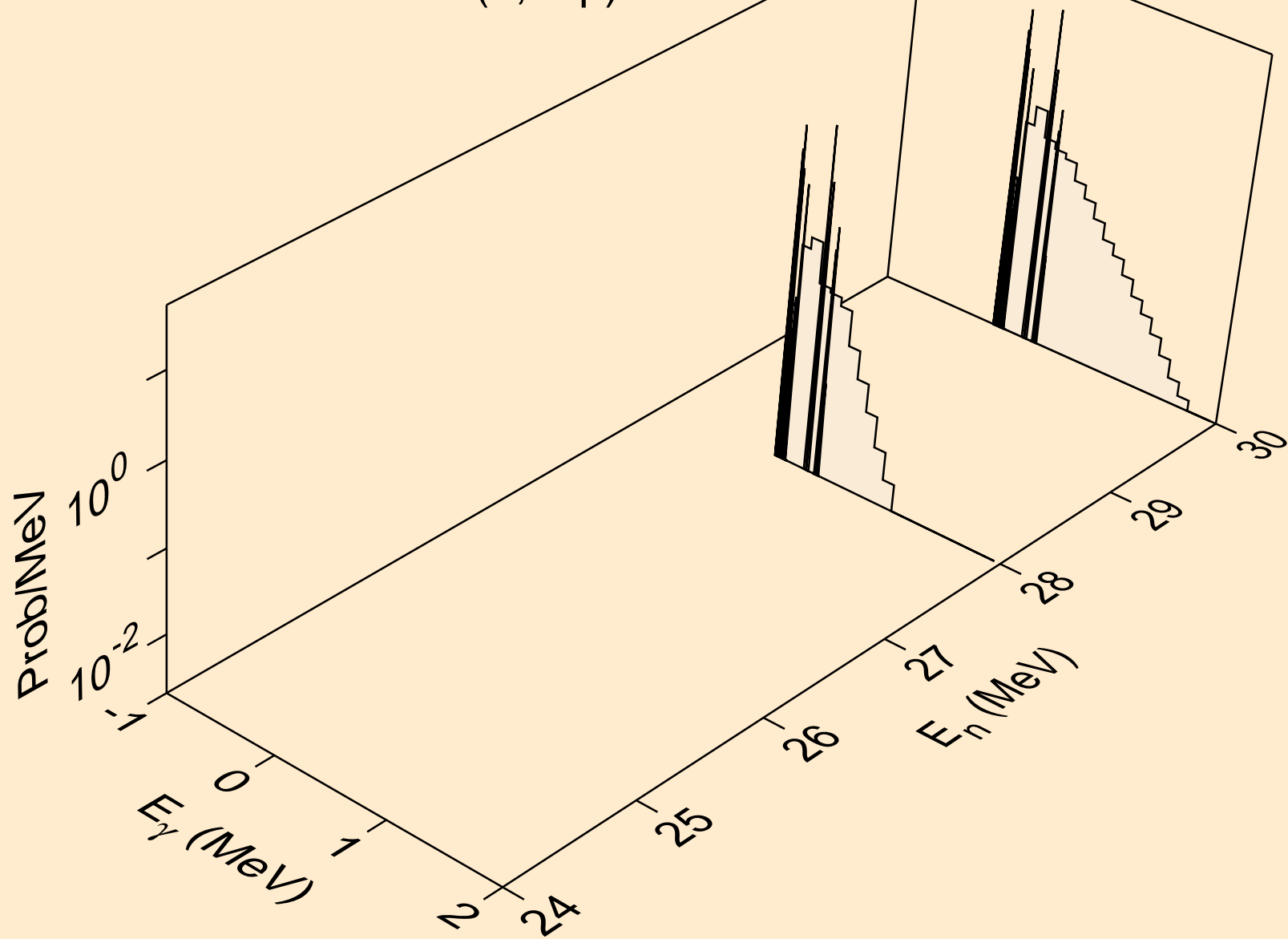
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Photon emission for (n,4n)



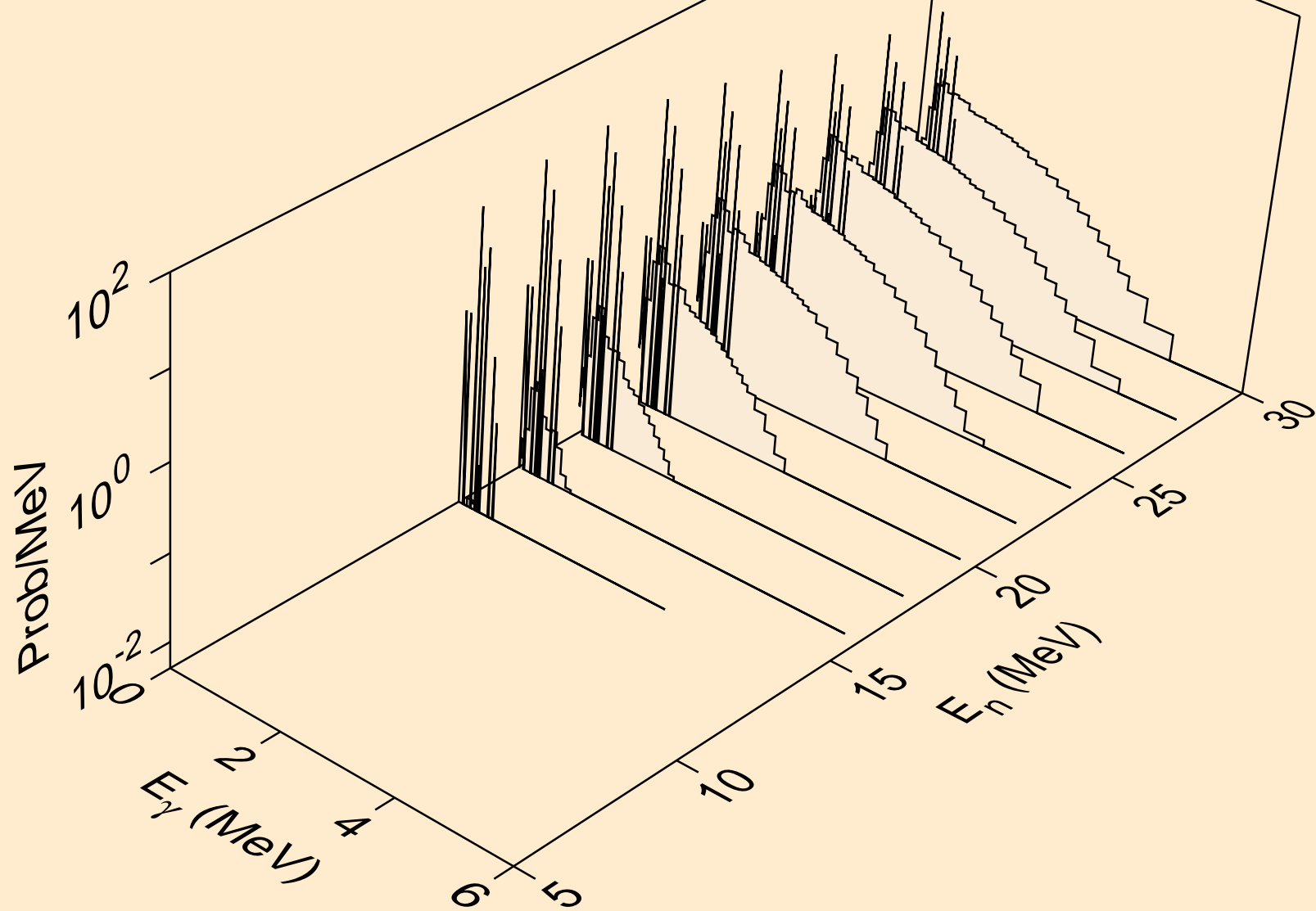
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Photon emission for (n,2np)



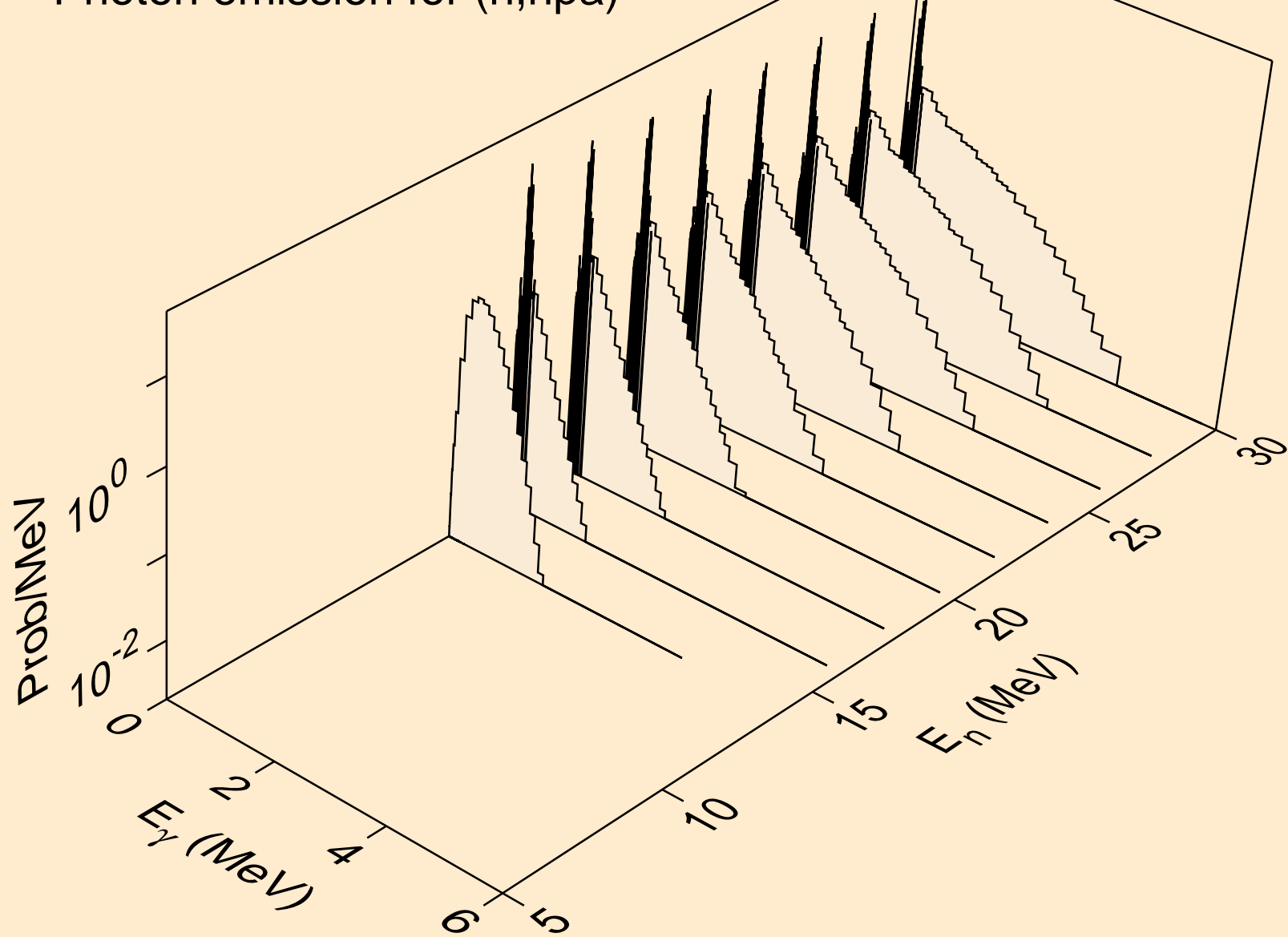
ND137M NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,3np)



ND137M NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,n2p)

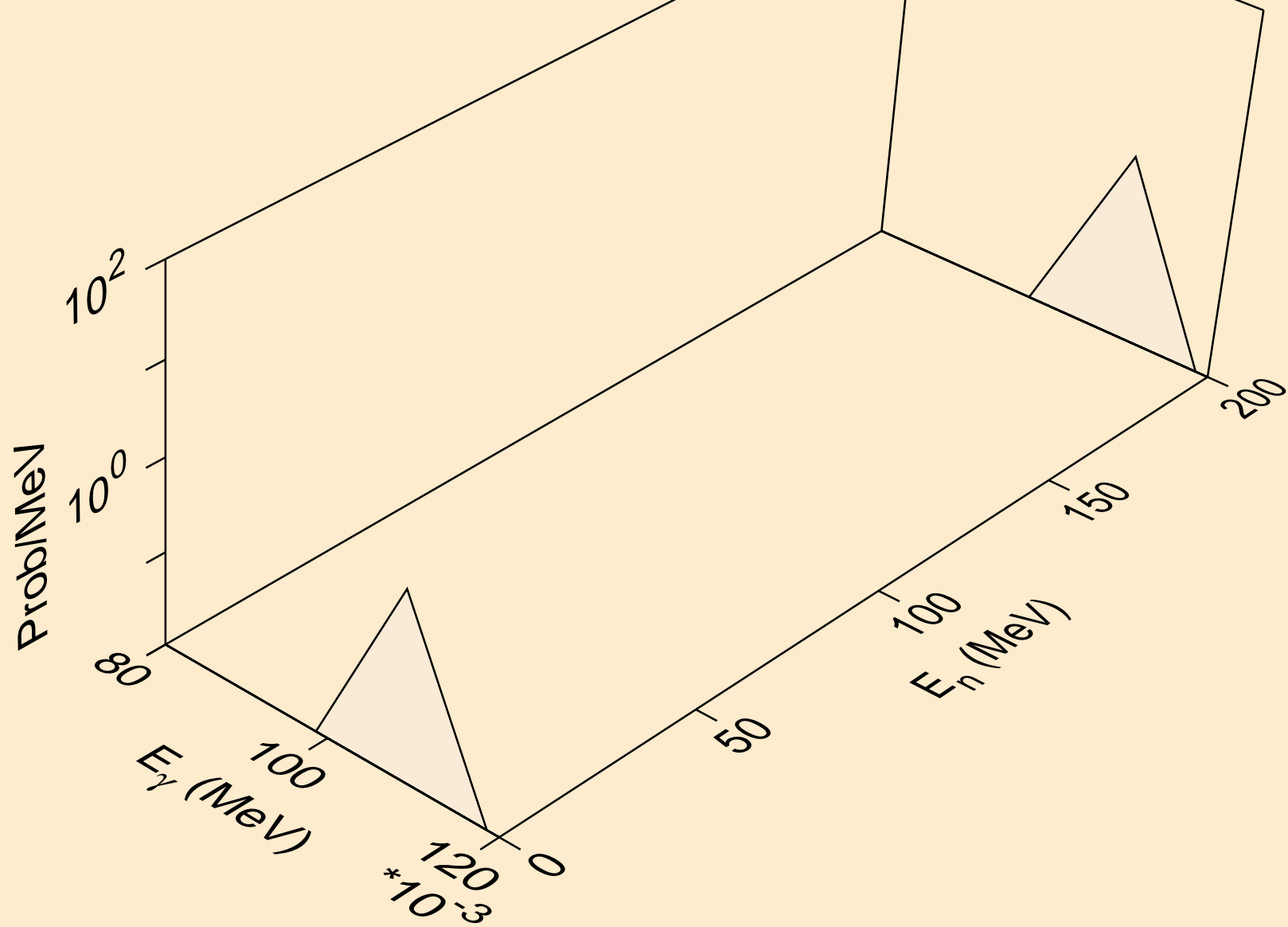


ND137M NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,npa)

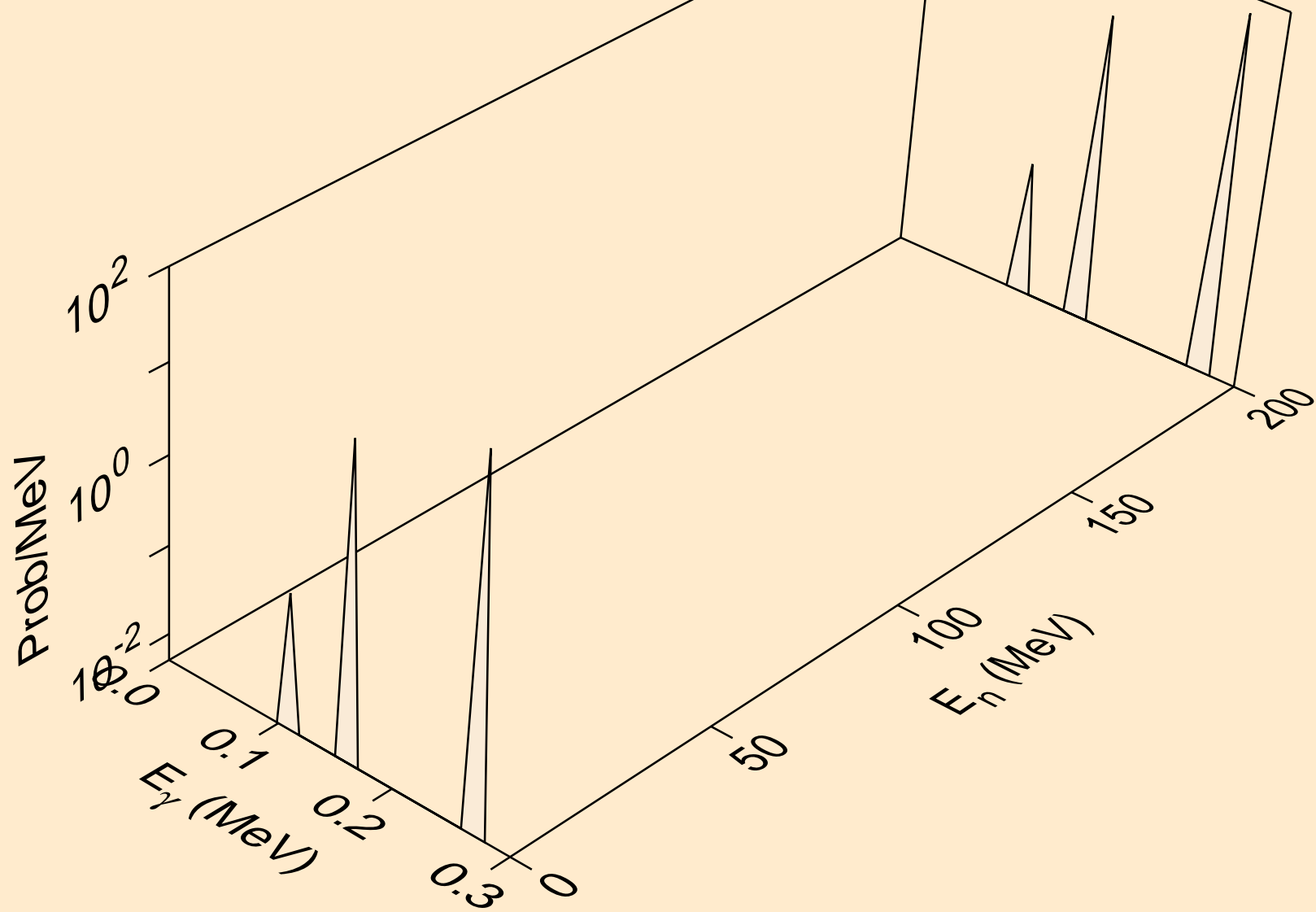




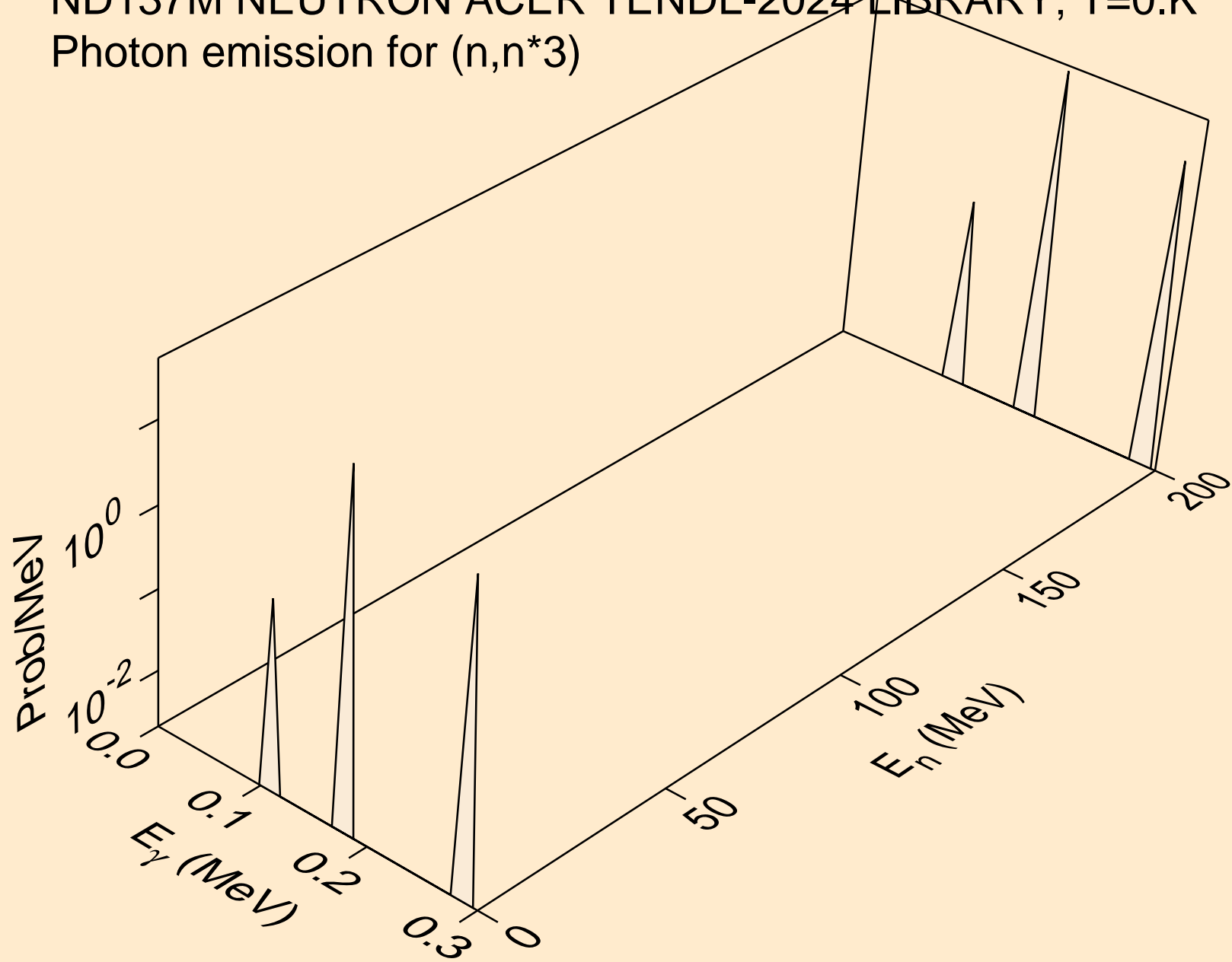
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Photon emission for (n,n\*1)



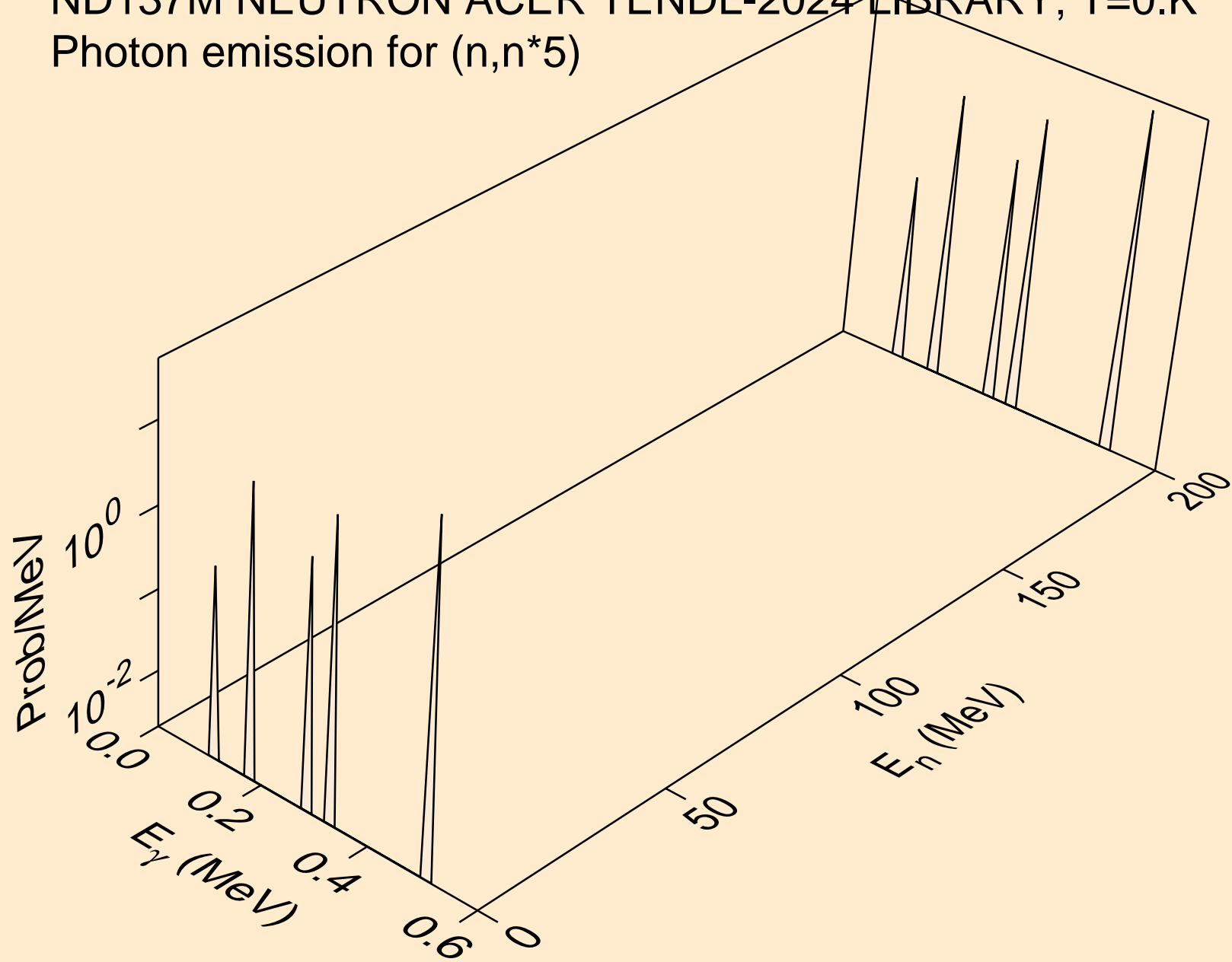
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Photon emission for (n,n\*2)



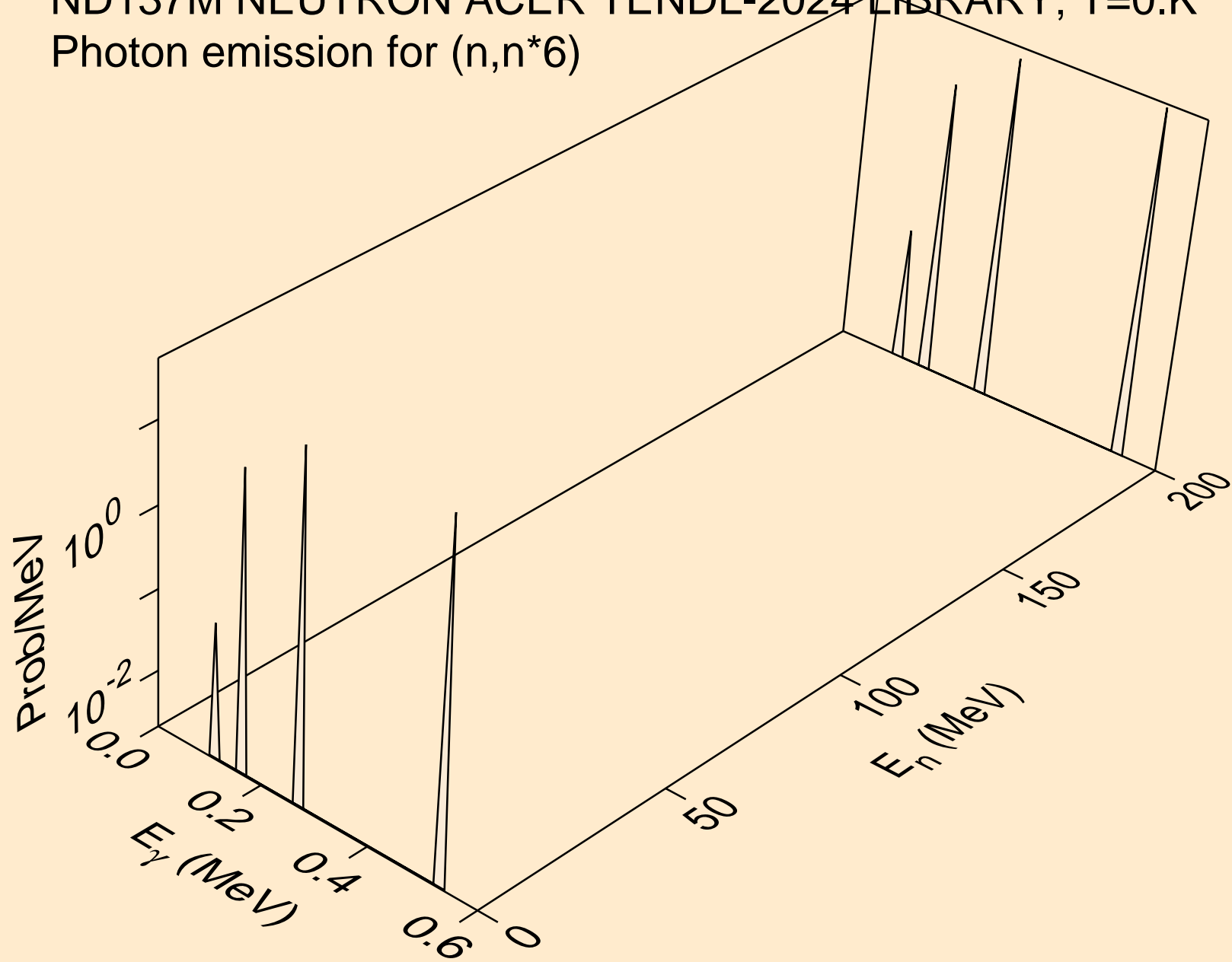
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Photon emission for (n,n\*3)



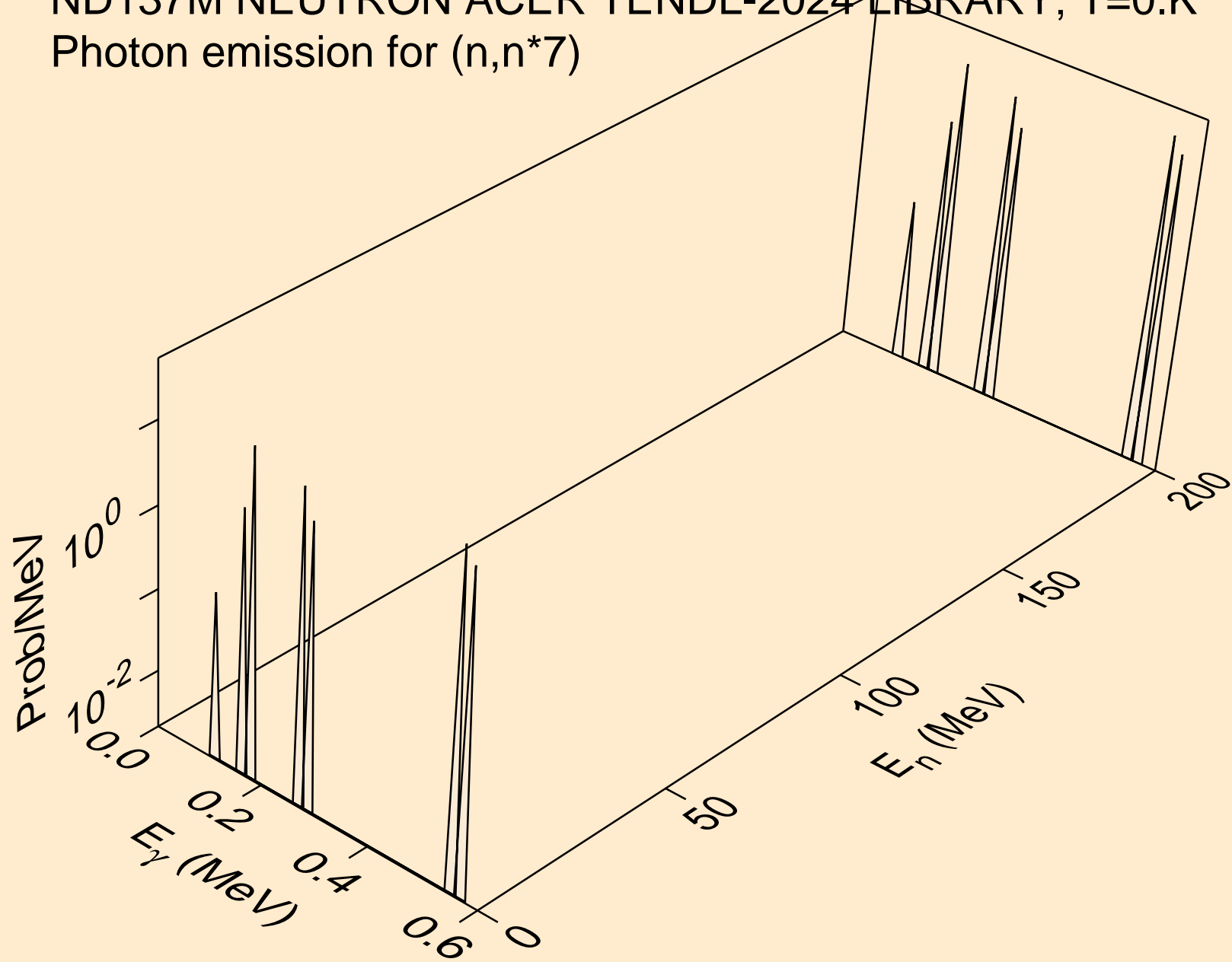
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Photon emission for (n,n\*5)



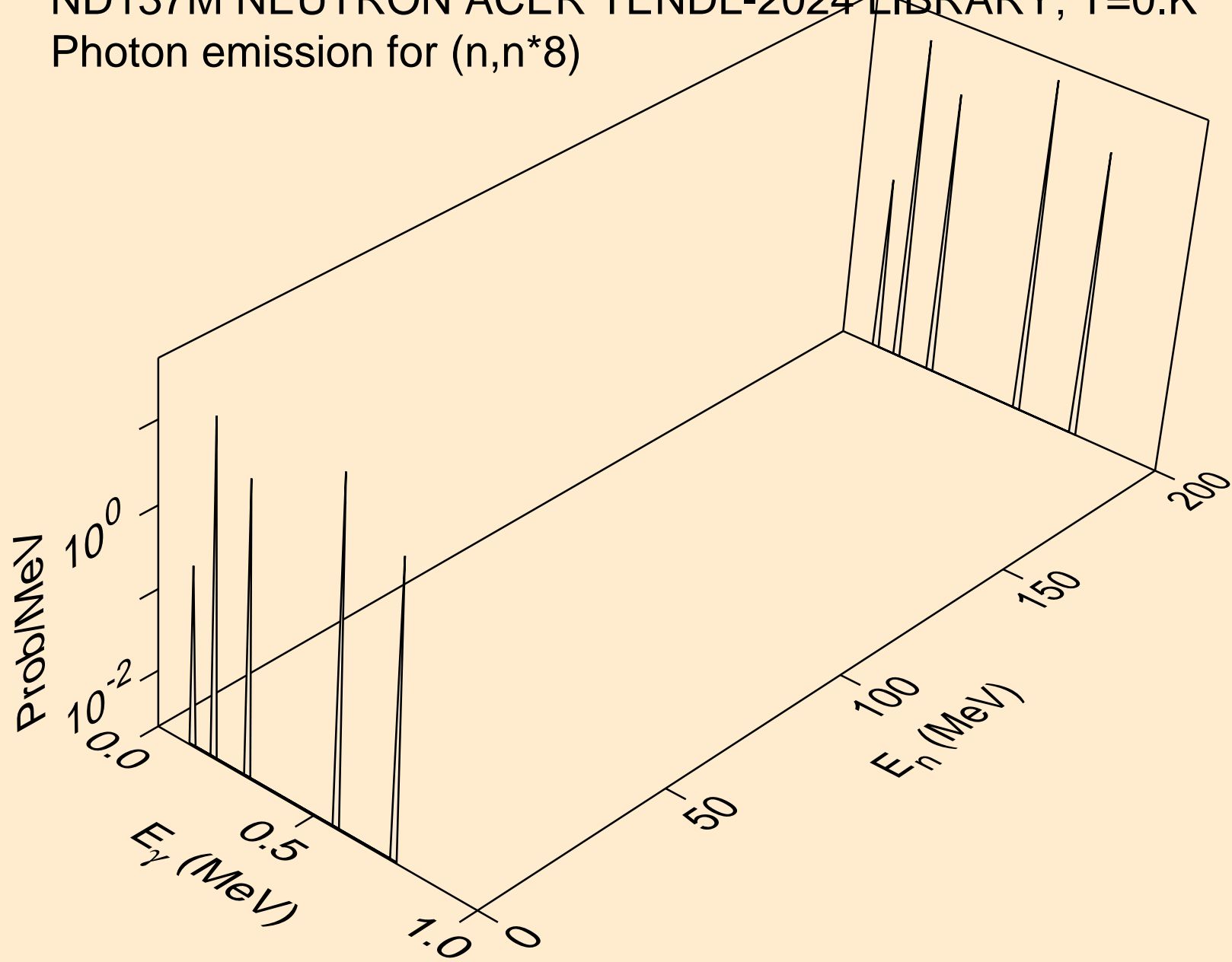
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Photon emission for (n,n\*6)



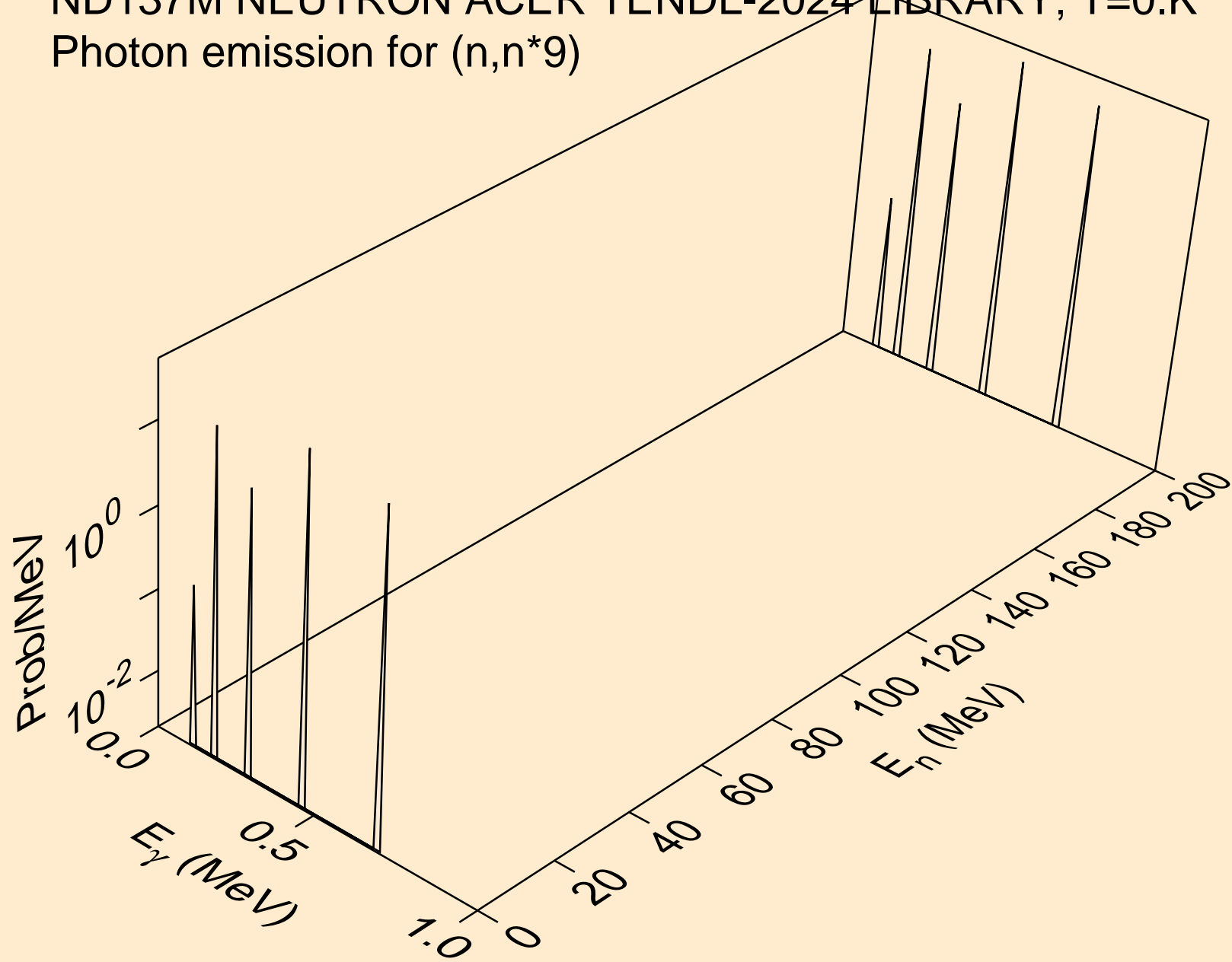
ND137M NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,n\*7)



ND137M NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,n\*8)

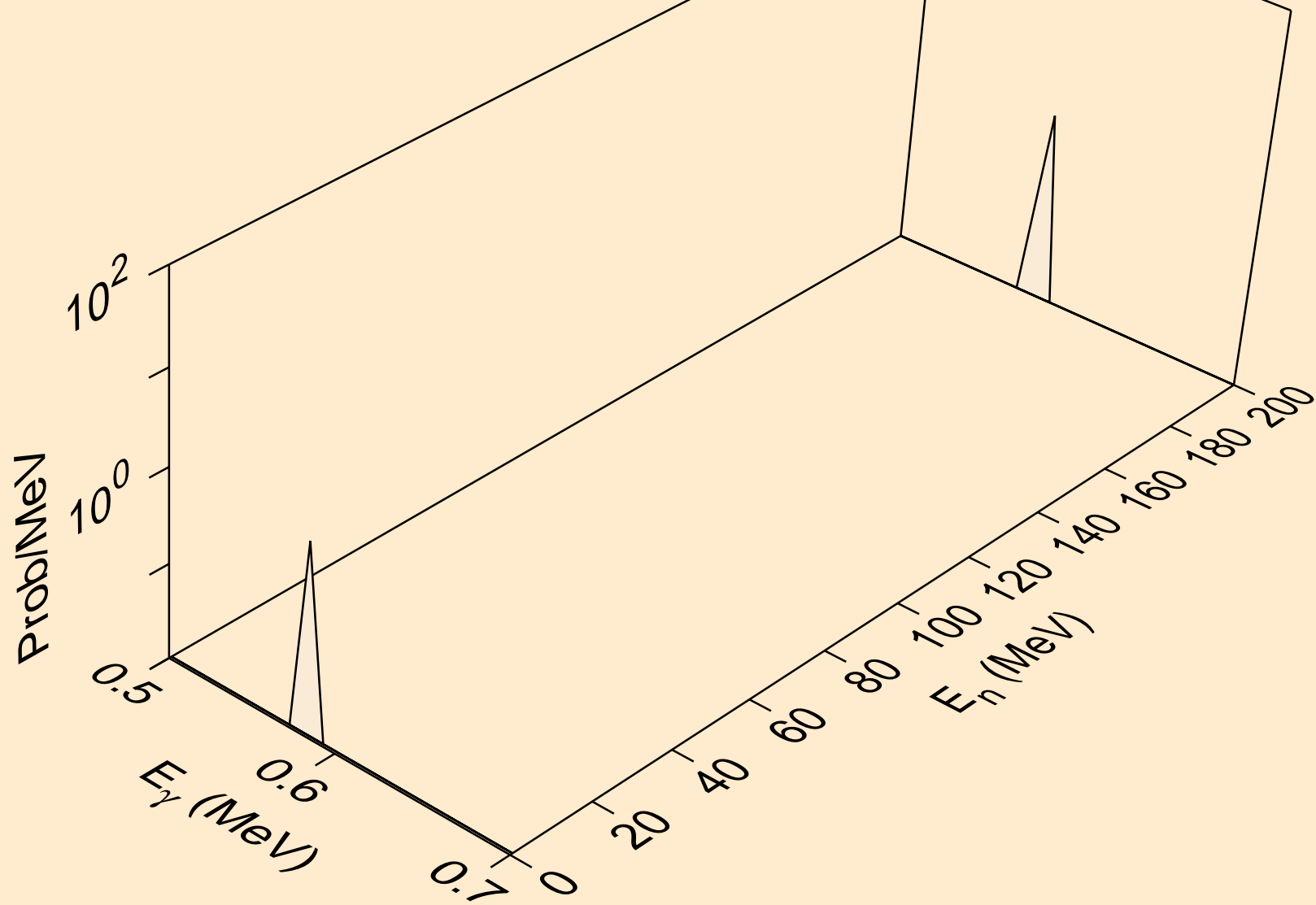


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Photon emission for (n,n\*9)

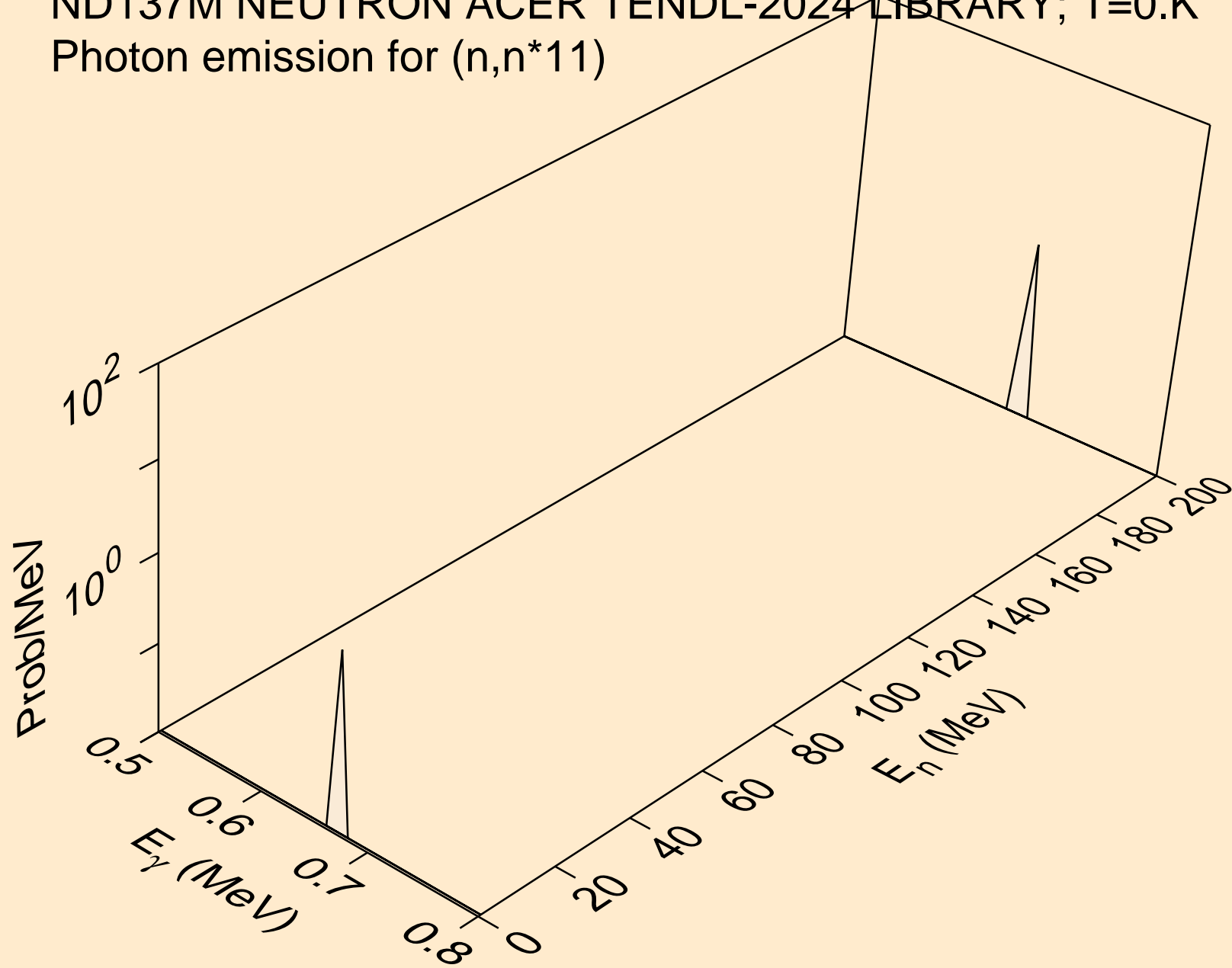




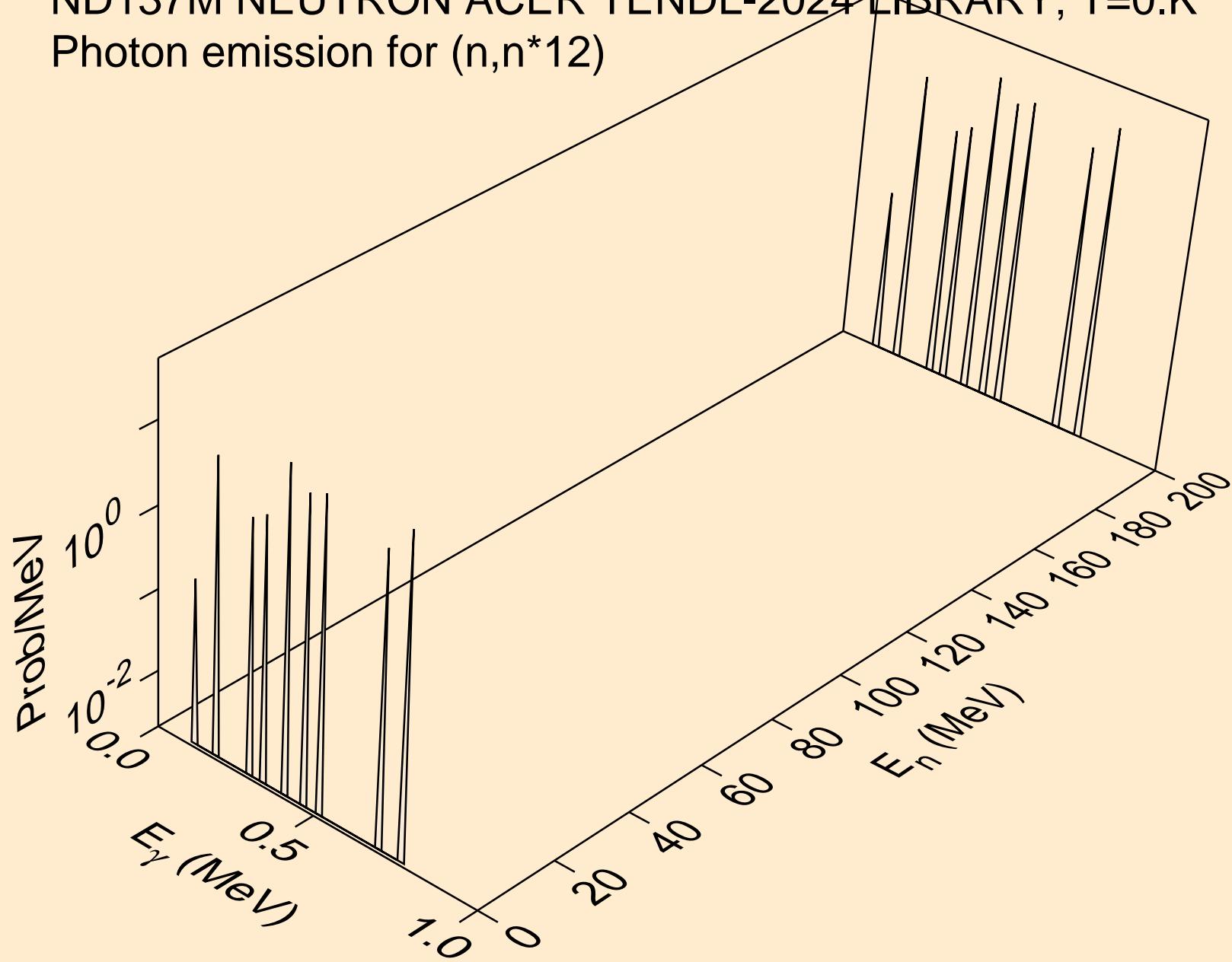
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Photon emission for (n,n\*10)



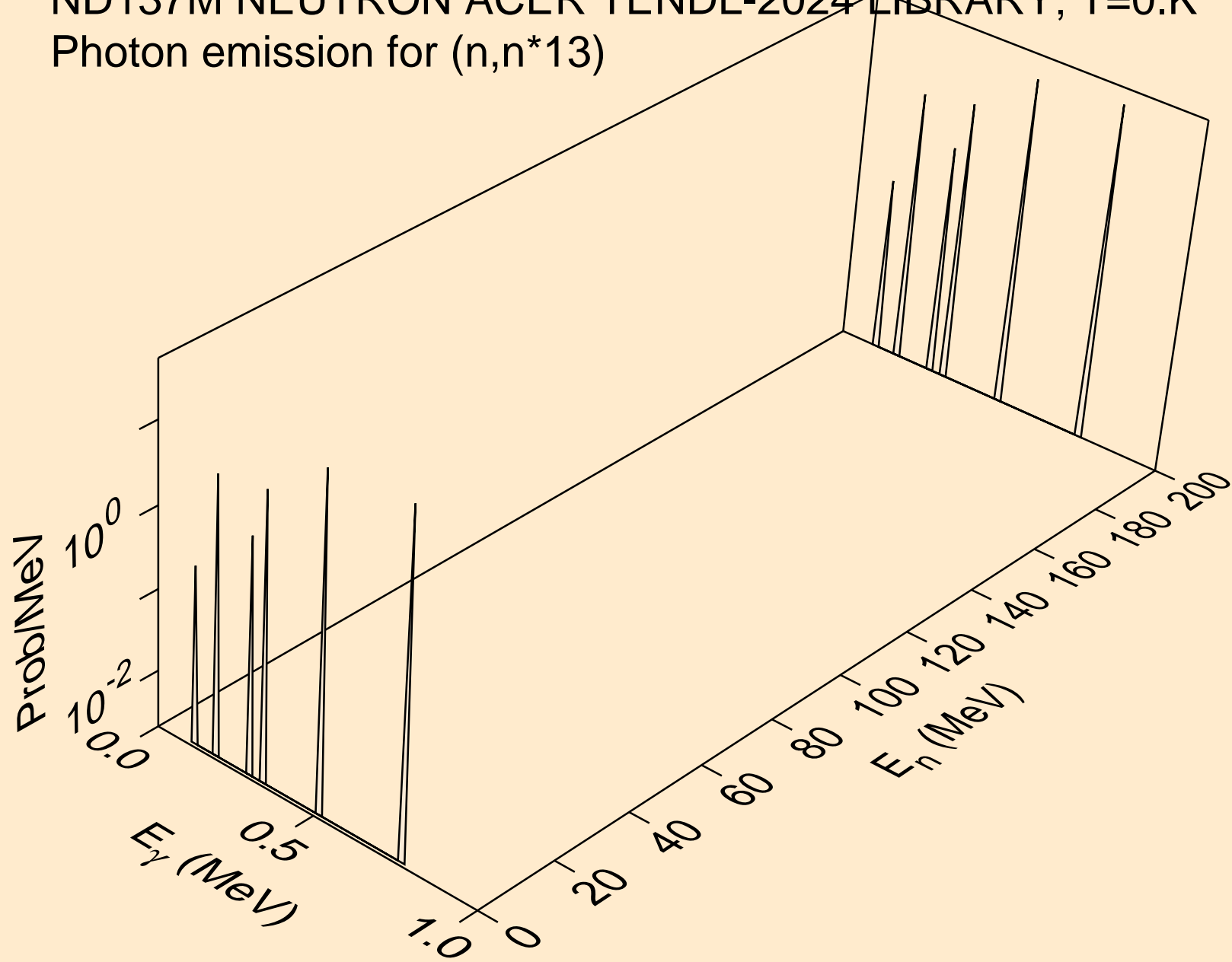
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Photon emission for (n,n\*11)



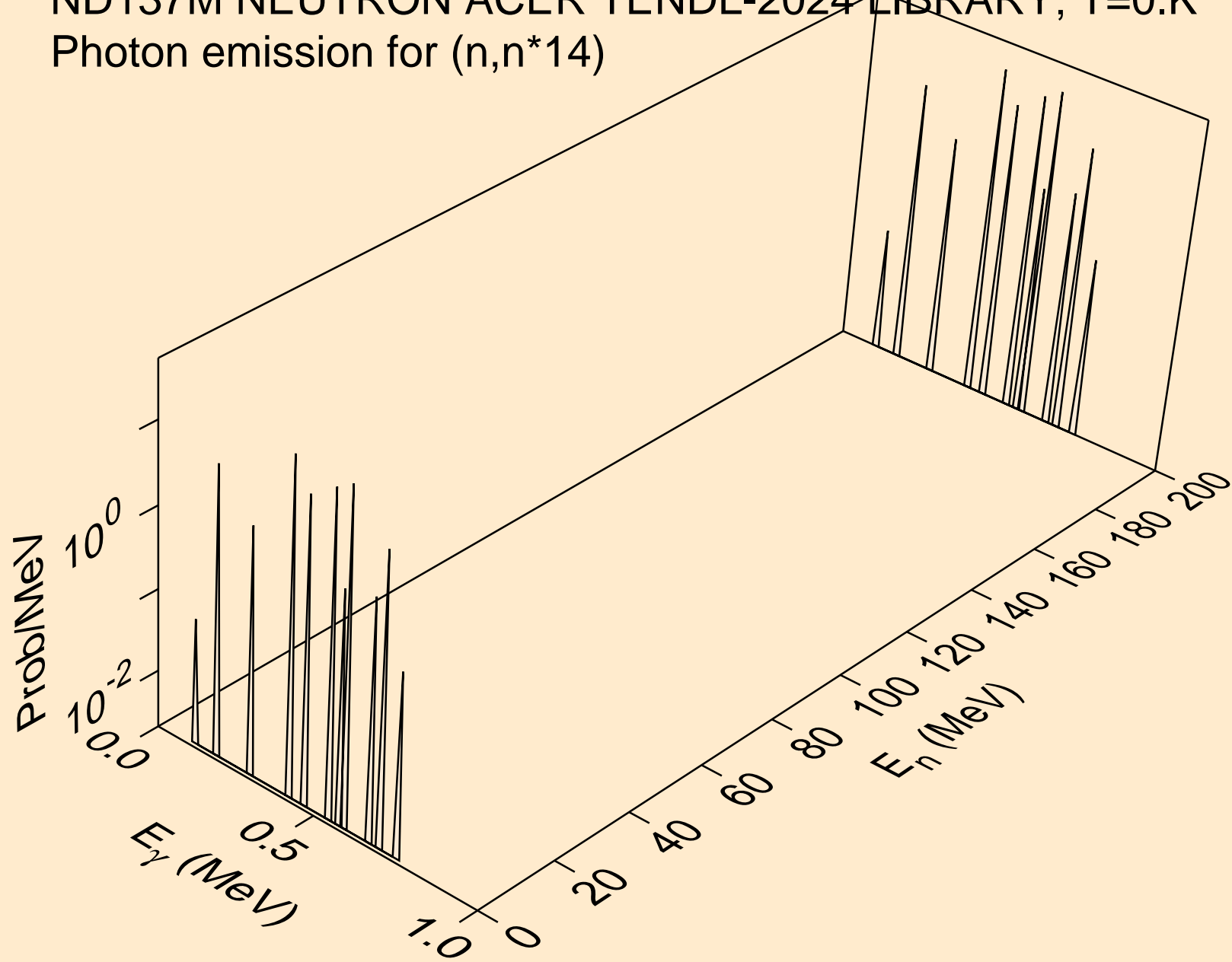
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Photon emission for (n,n\*12)



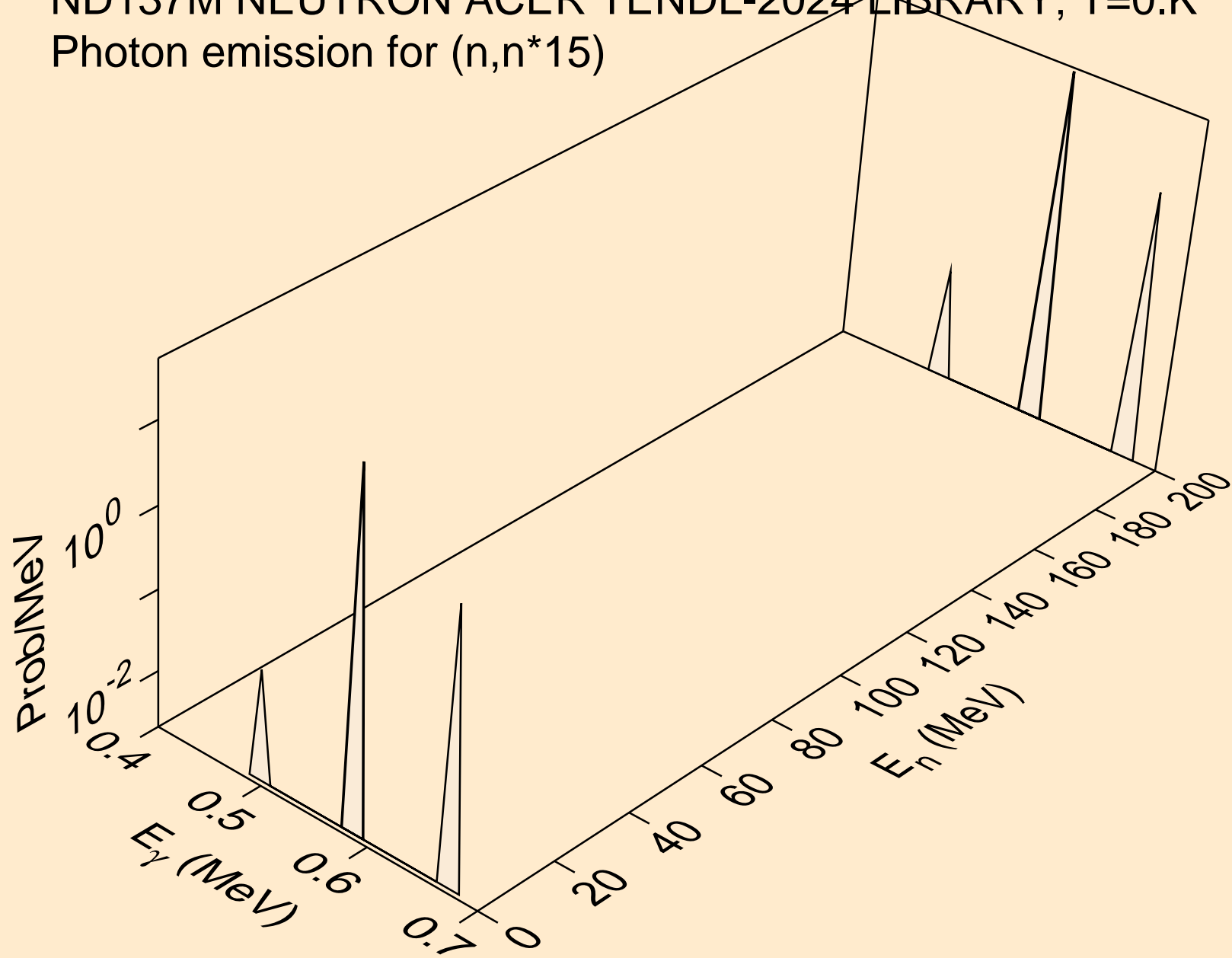
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Photon emission for (n,n\*13)



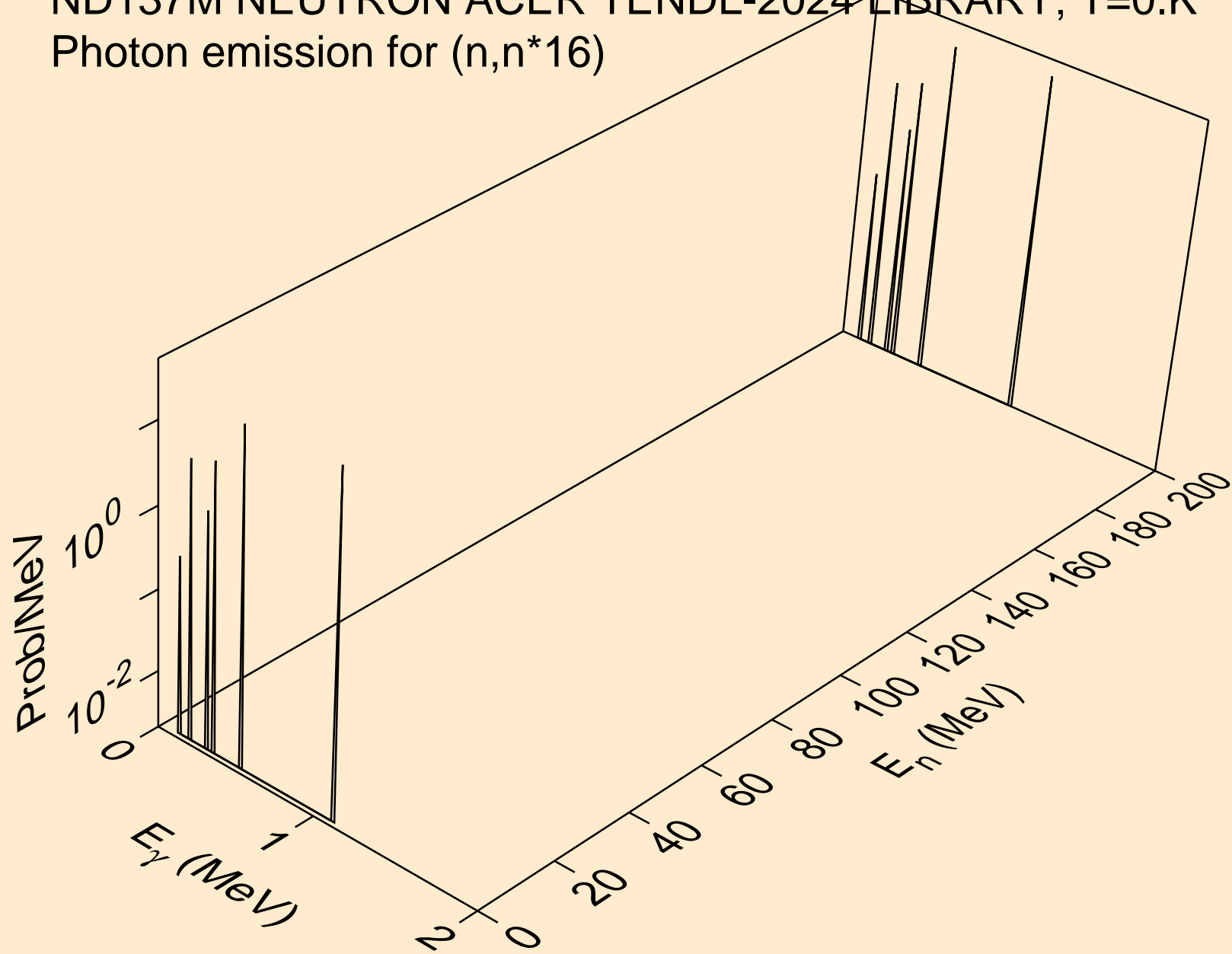
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Photon emission for (n,n\*14)



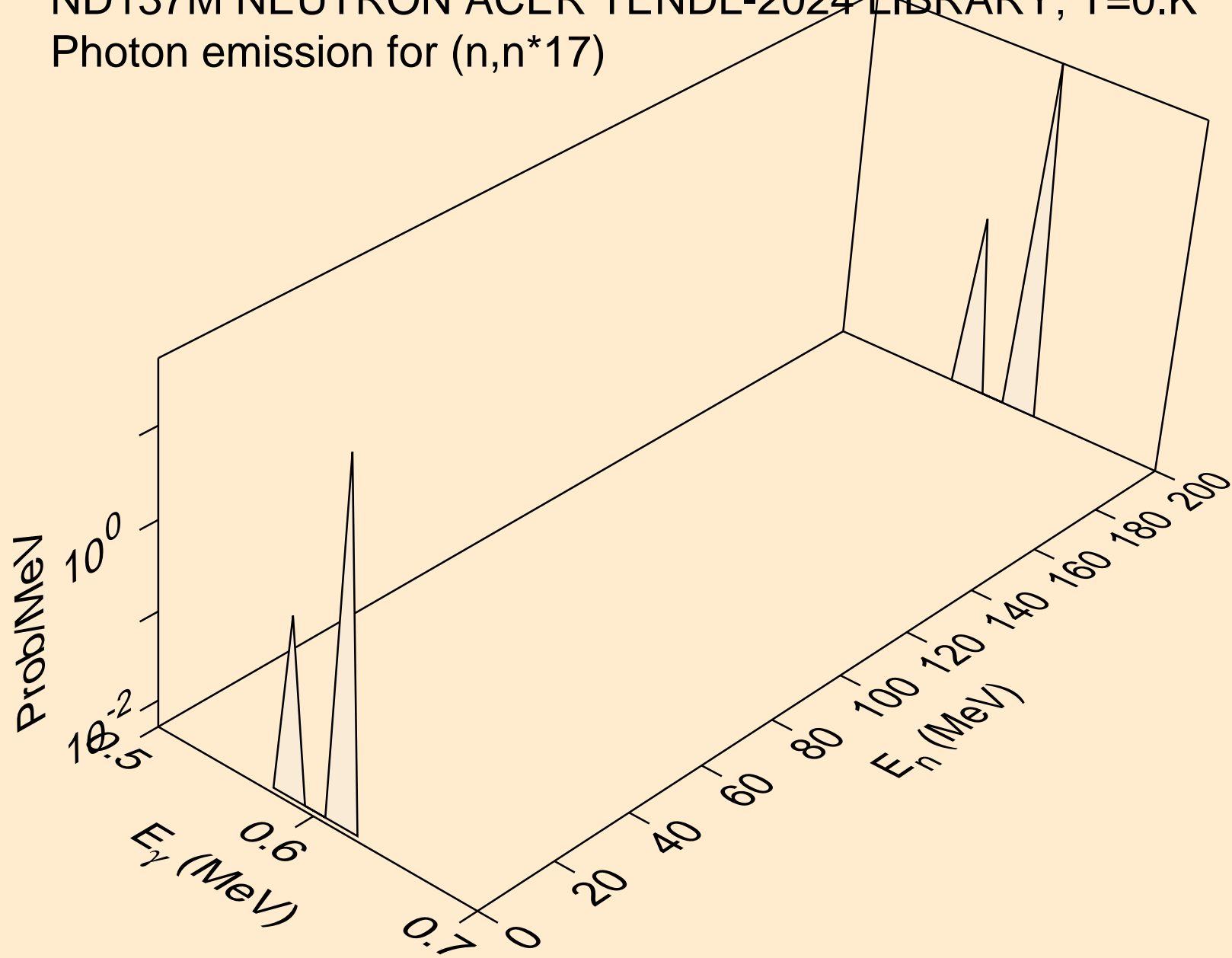
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Photon emission for (n,n\*15)



ND137M NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,n\*16)

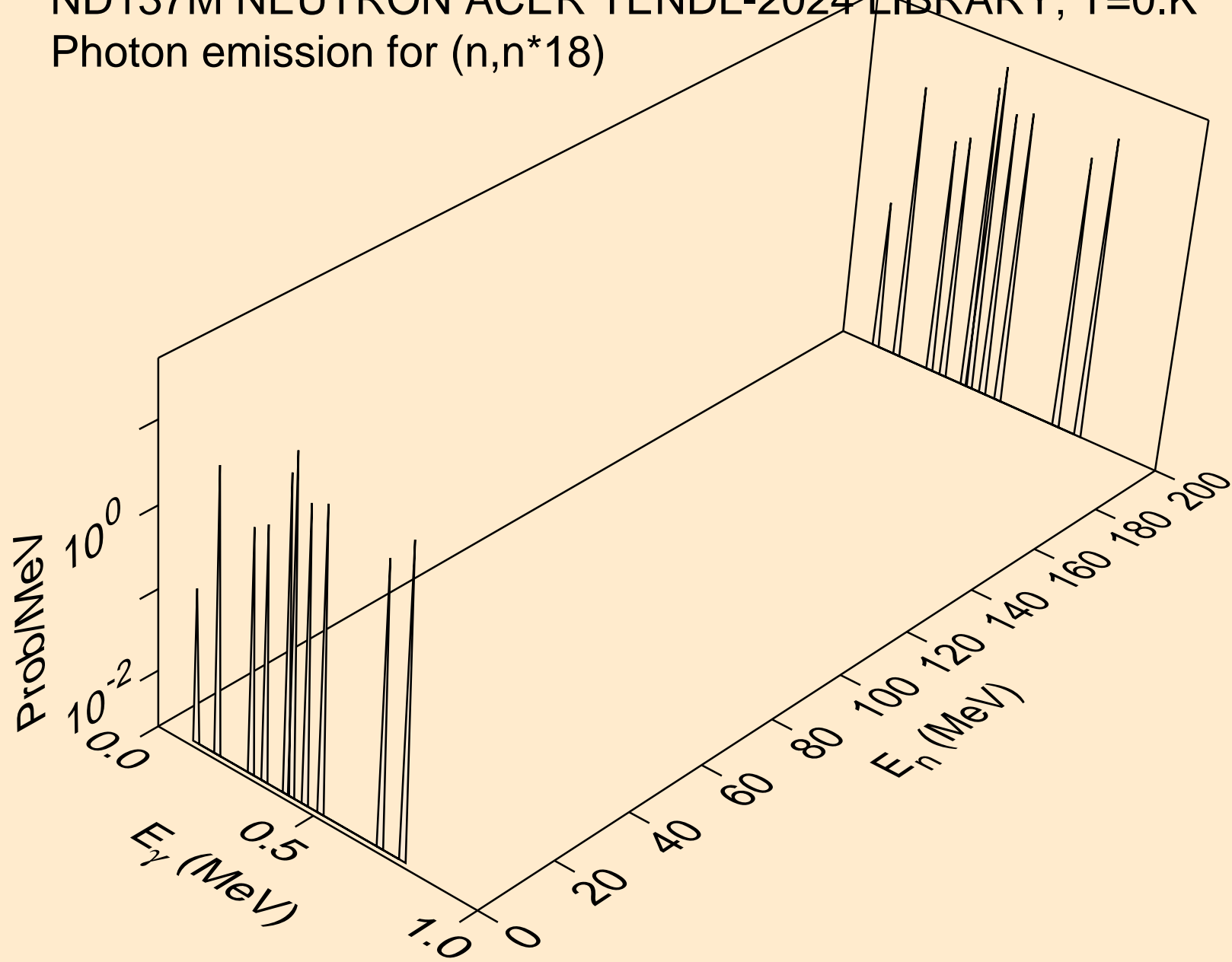


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Photon emission for (n,n\*17)

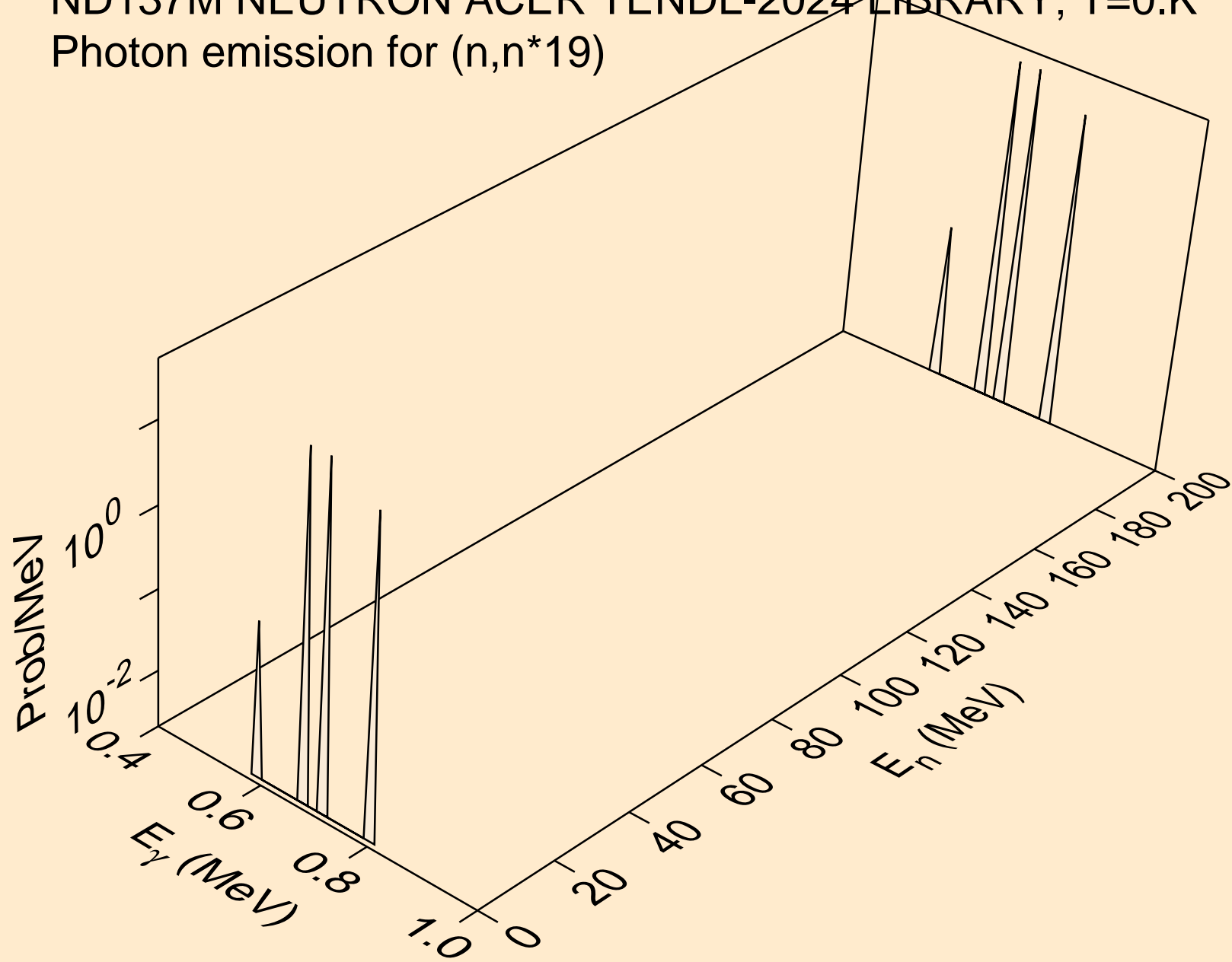




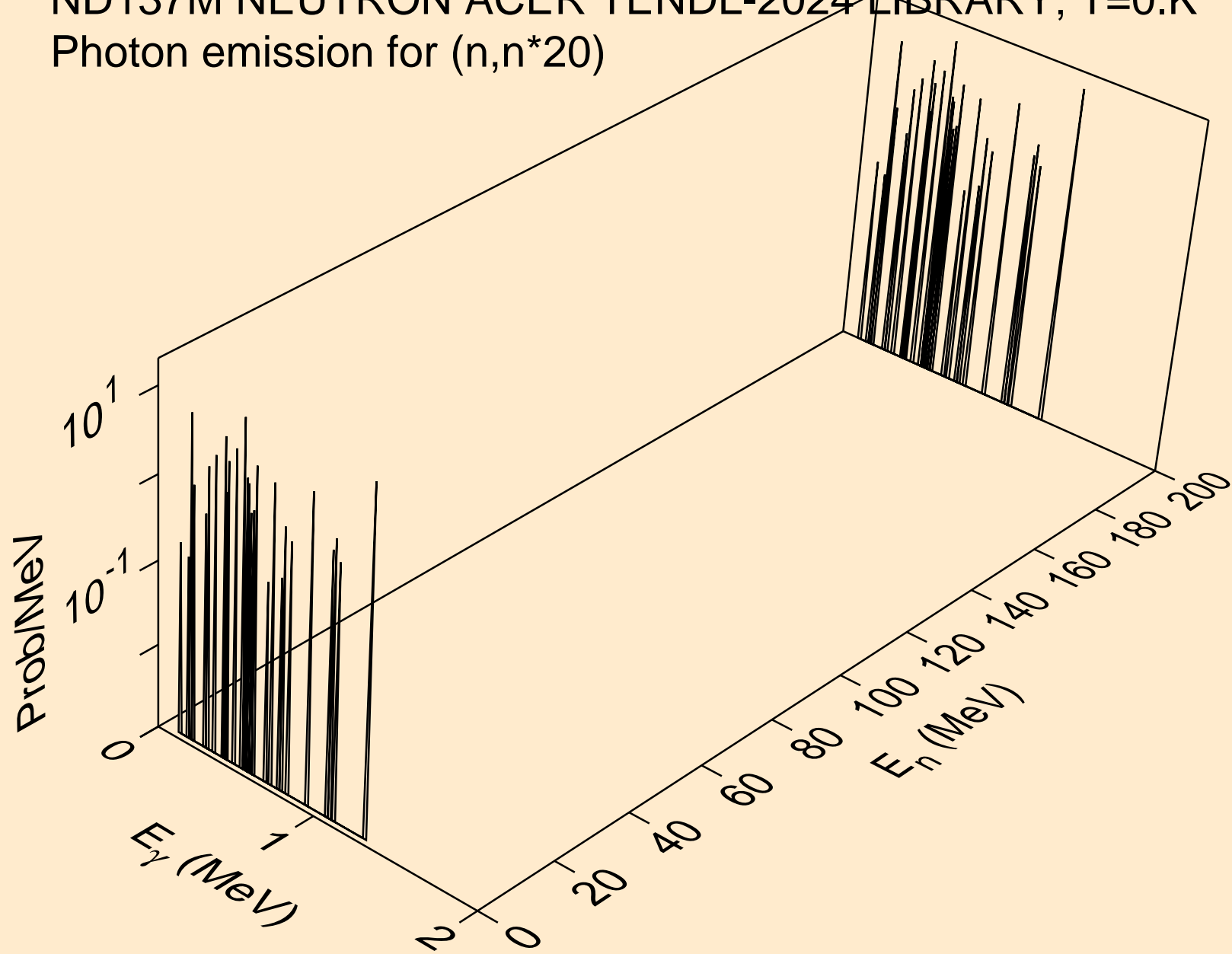
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Photon emission for (n,n\*18)



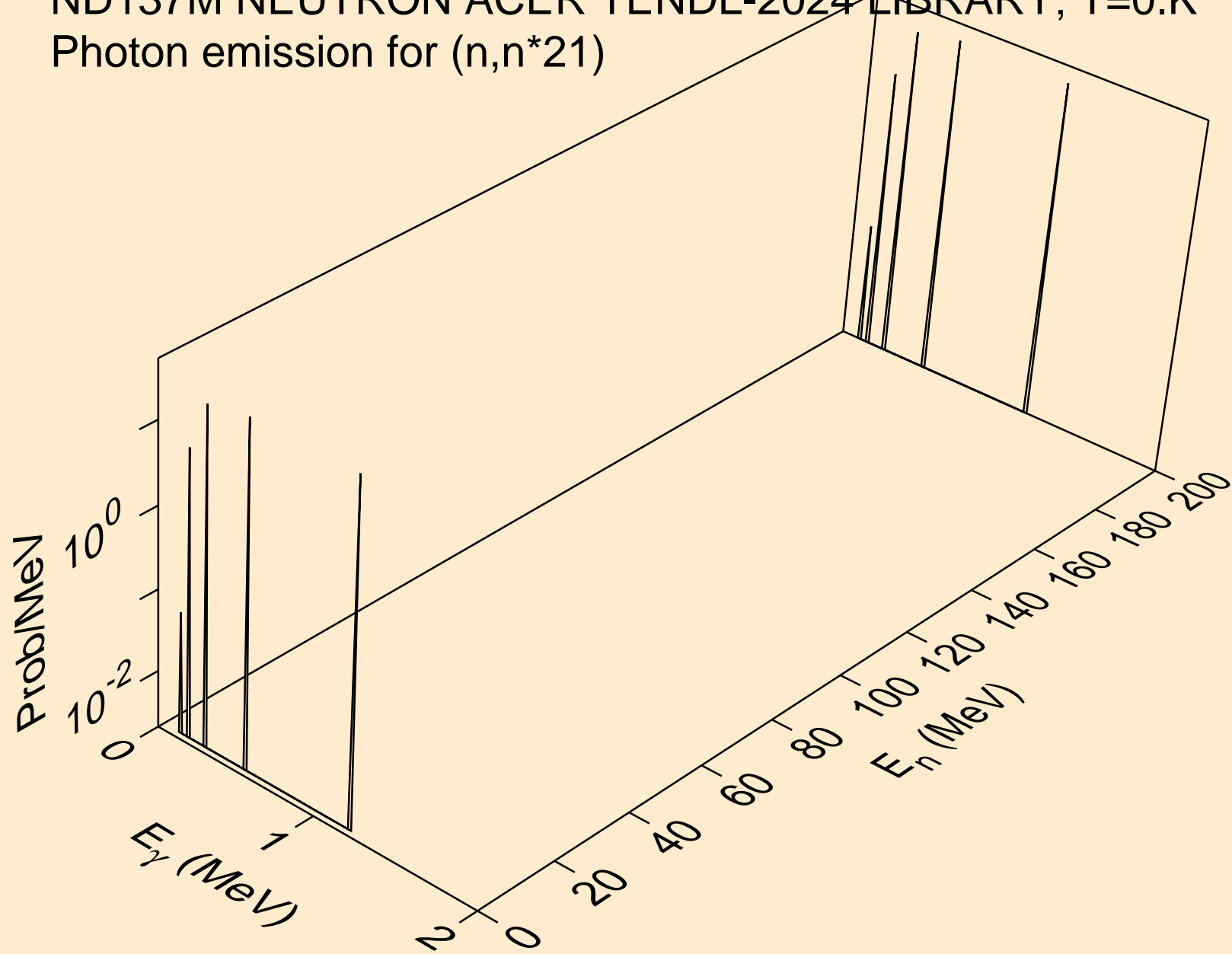
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Photon emission for (n,n\*19)



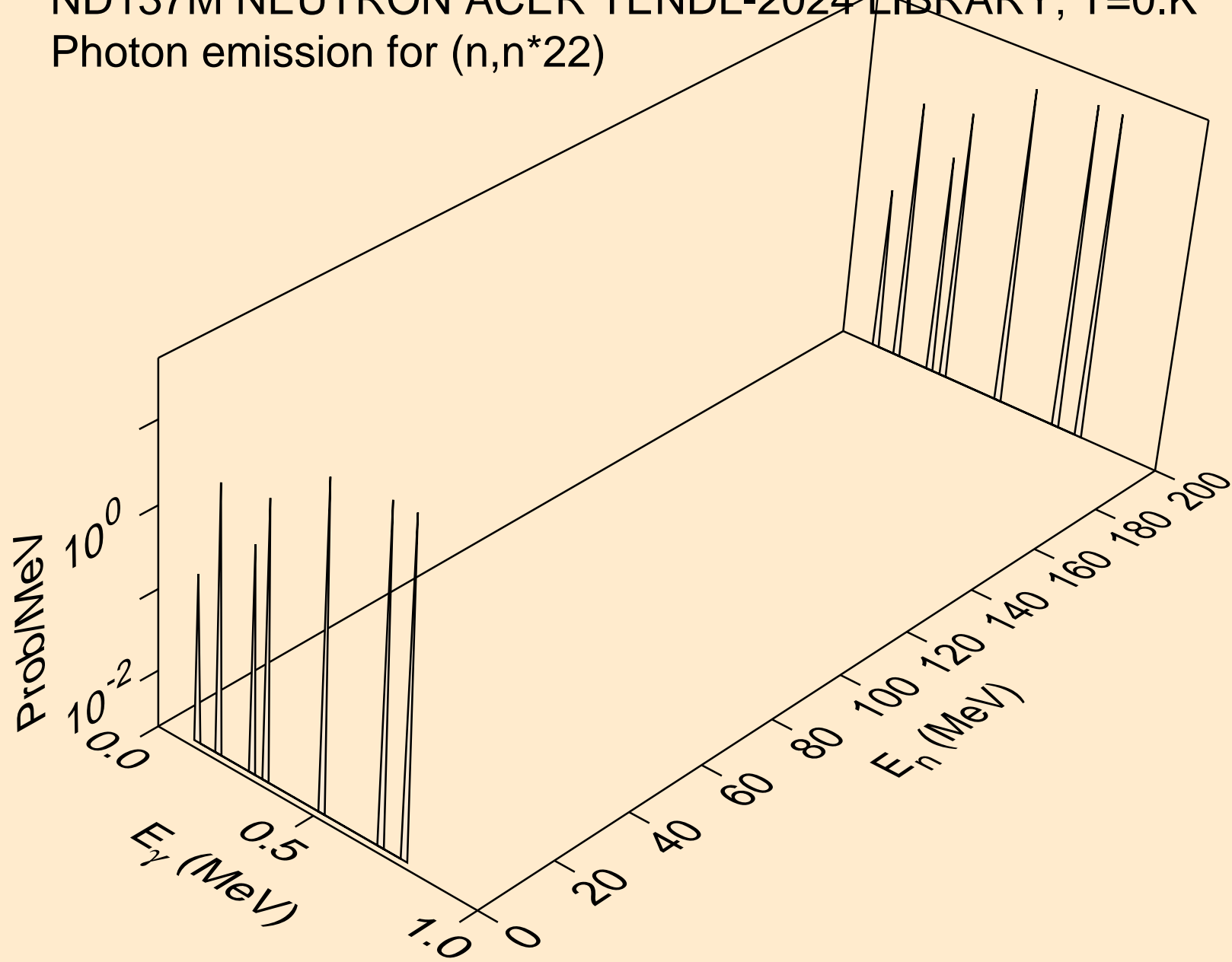
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Photon emission for (n,n\*20)



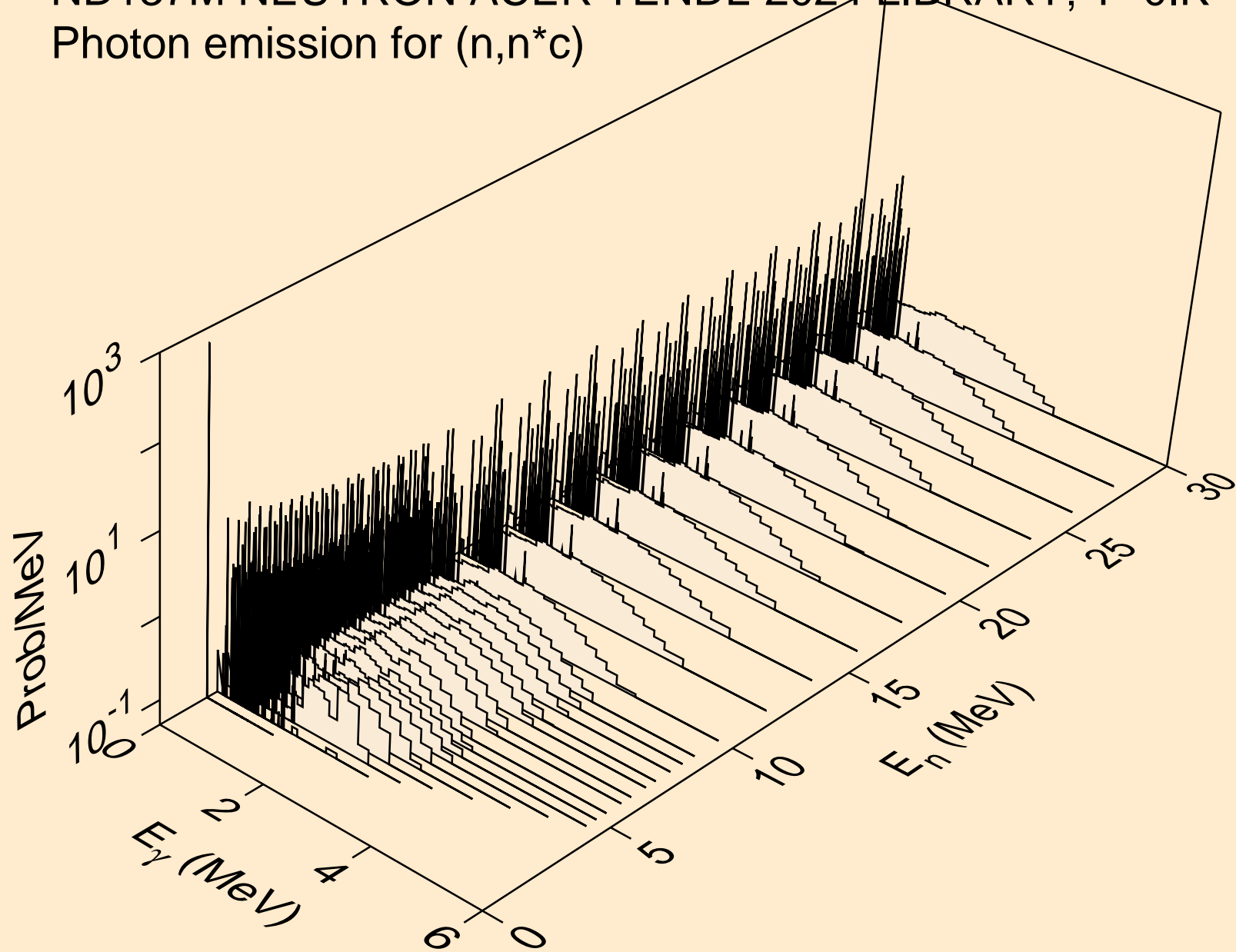
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Photon emission for (n,n\*21)



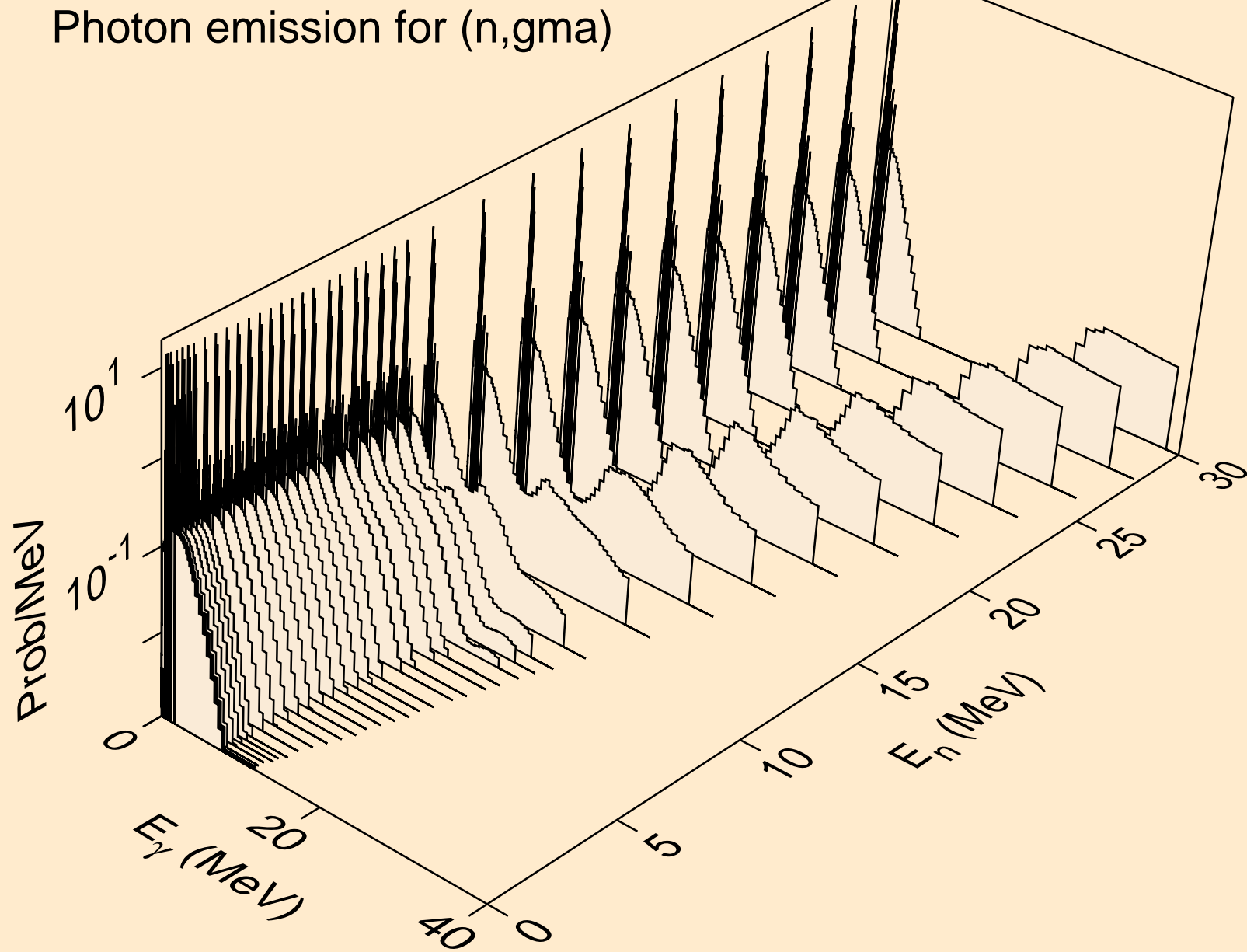
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Photon emission for (n,n\*22)



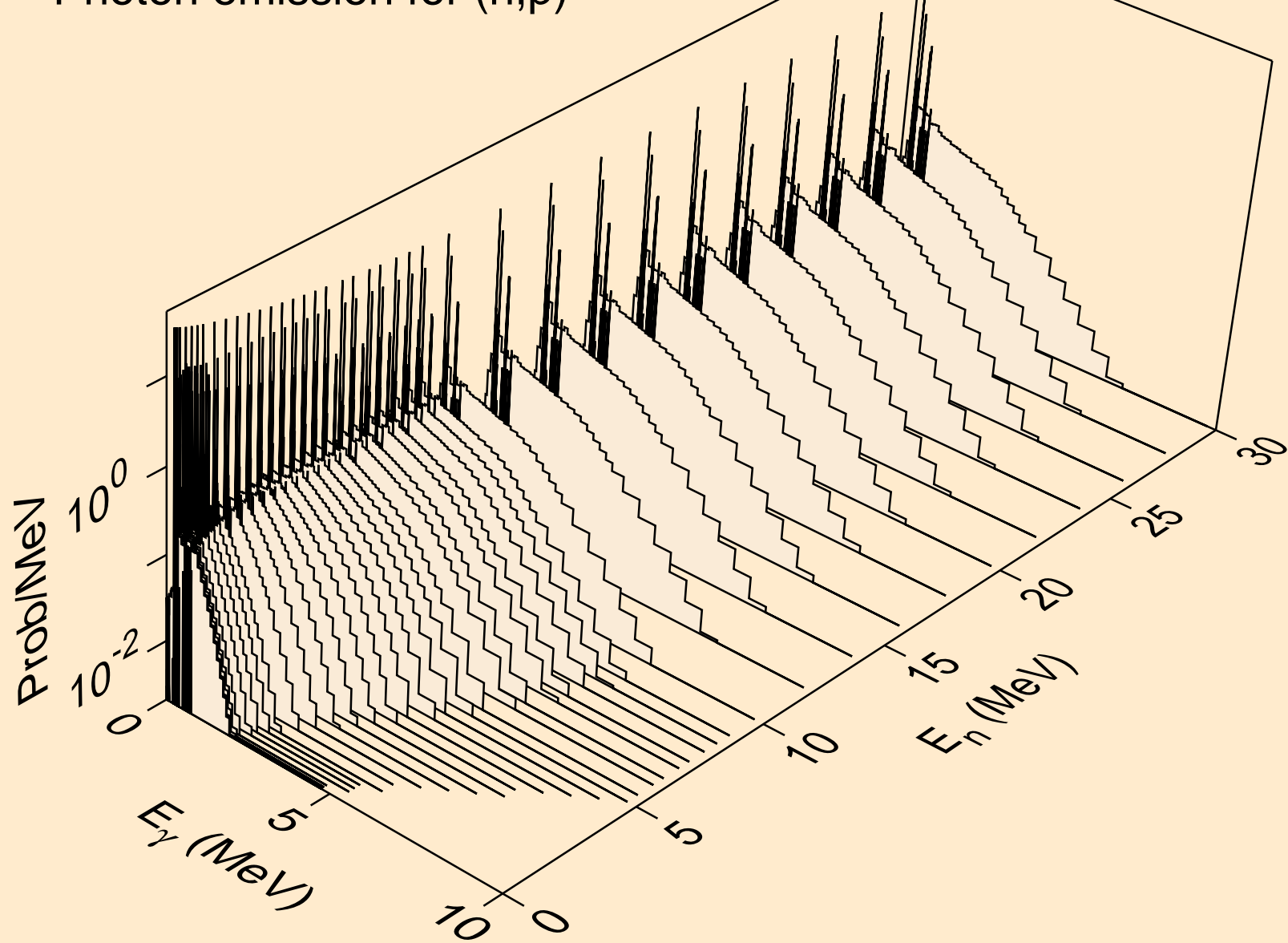
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Photon emission for (n,n\*c)



ND137M NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,gma)

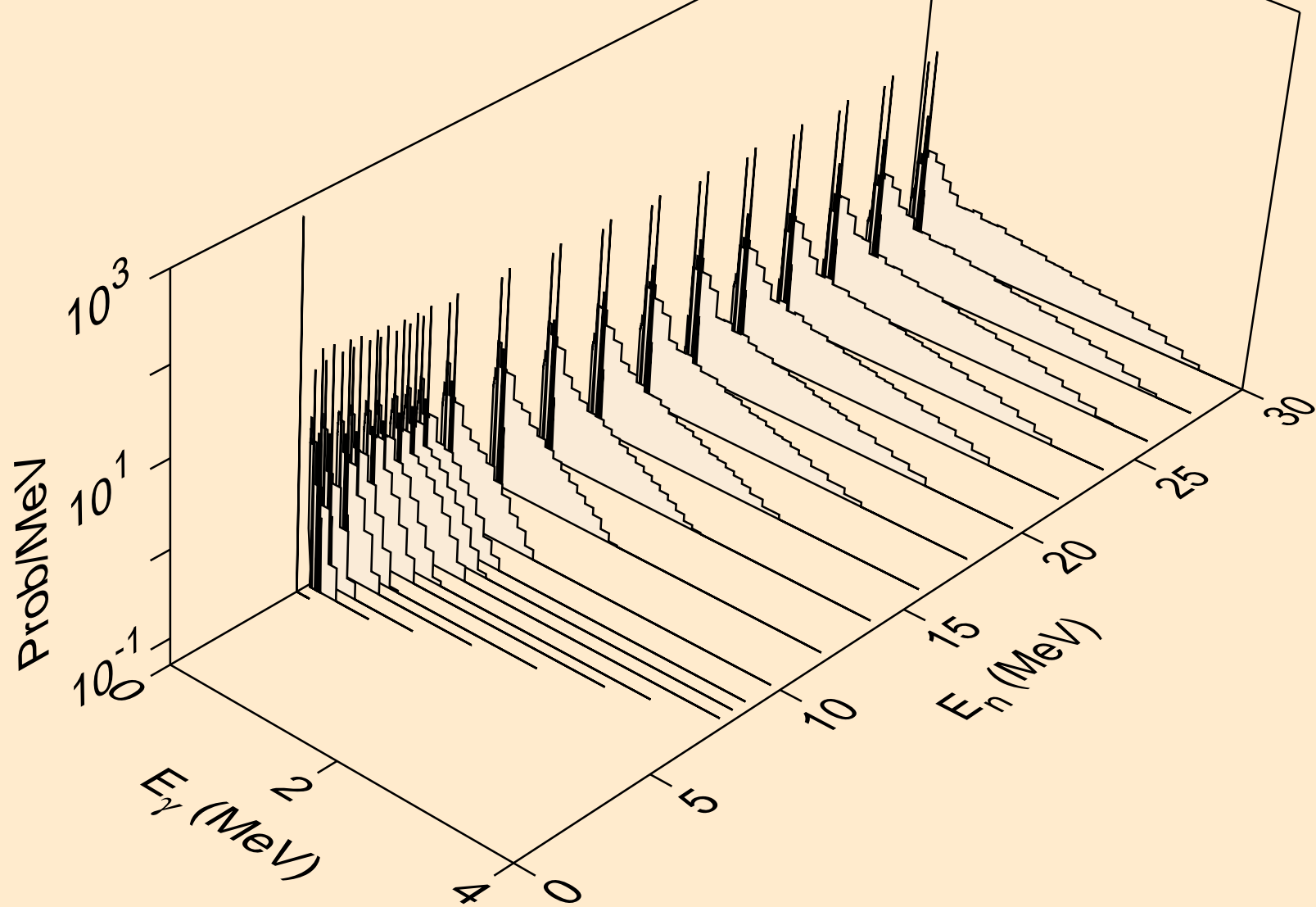


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Photon emission for (n,p)

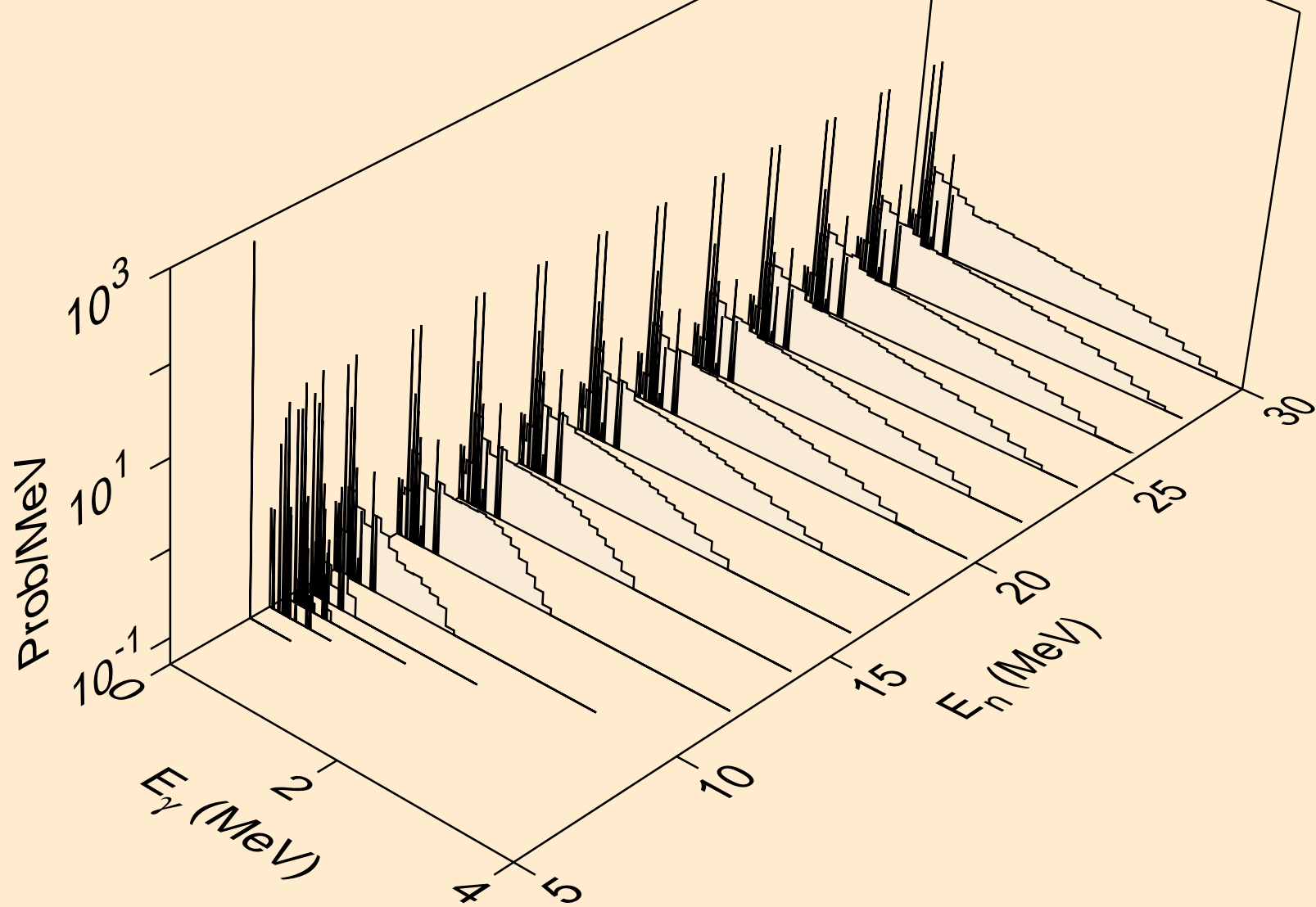




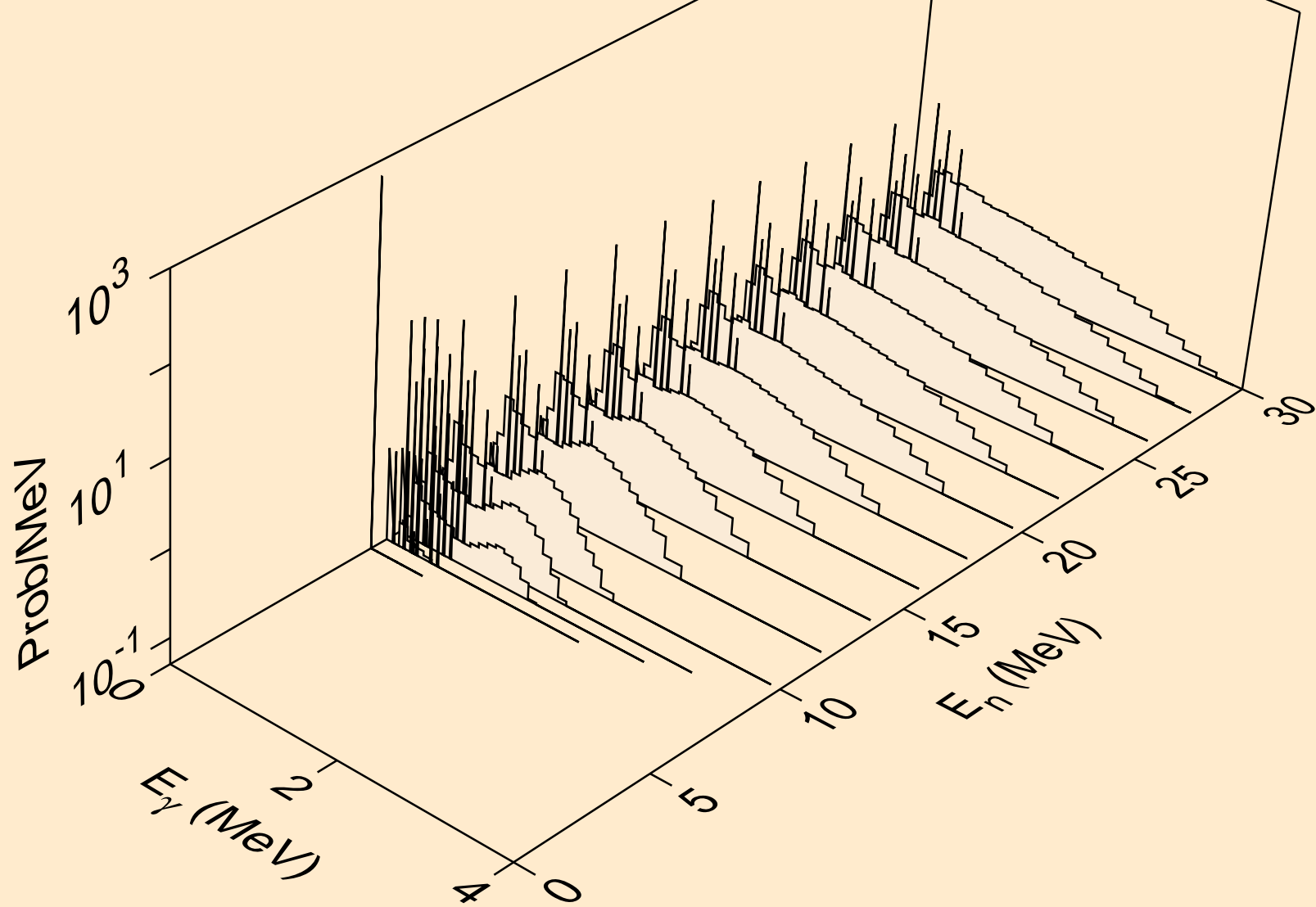
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Photon emission for (n,d)



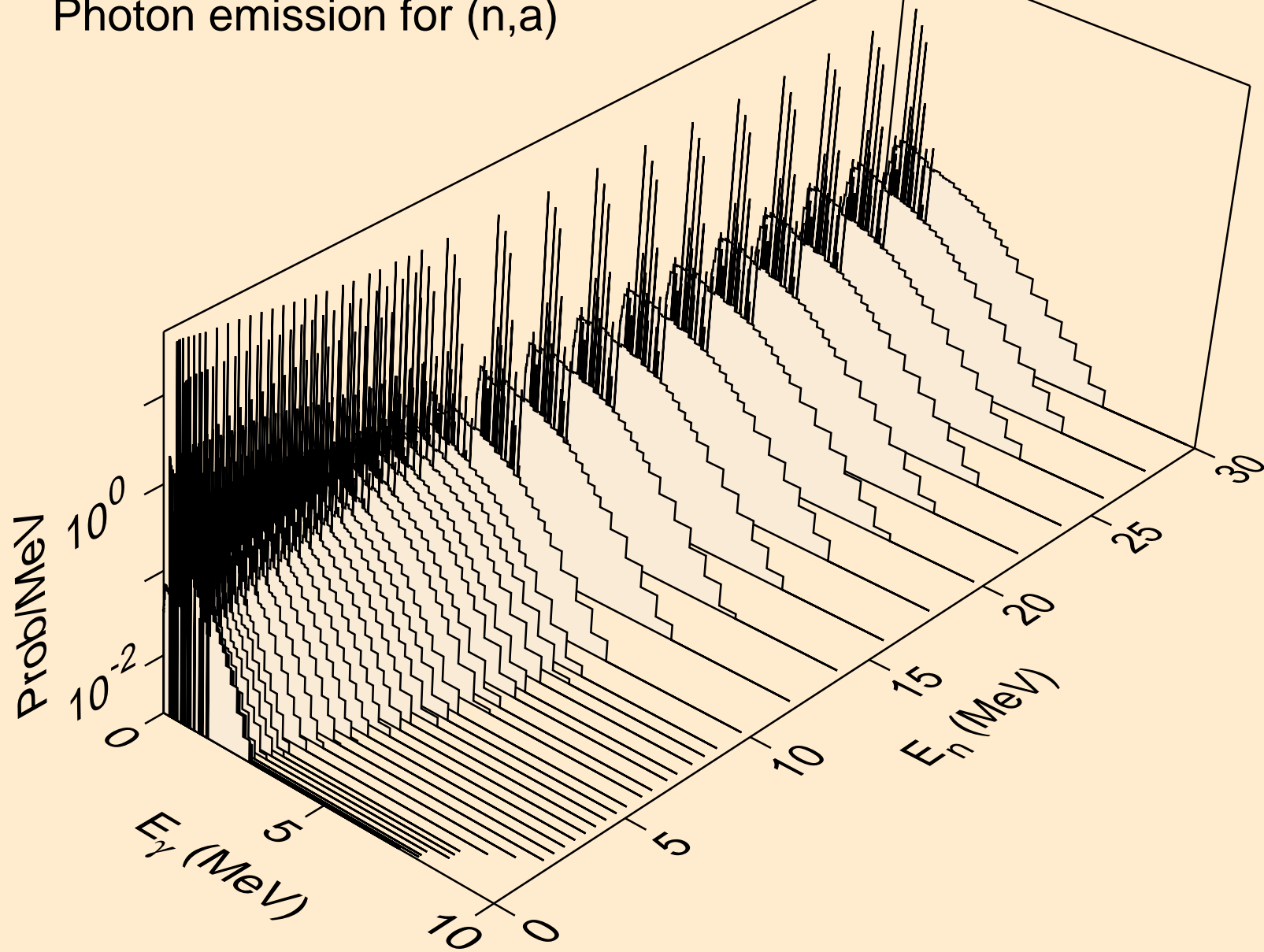
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Photon emission for (n,t)



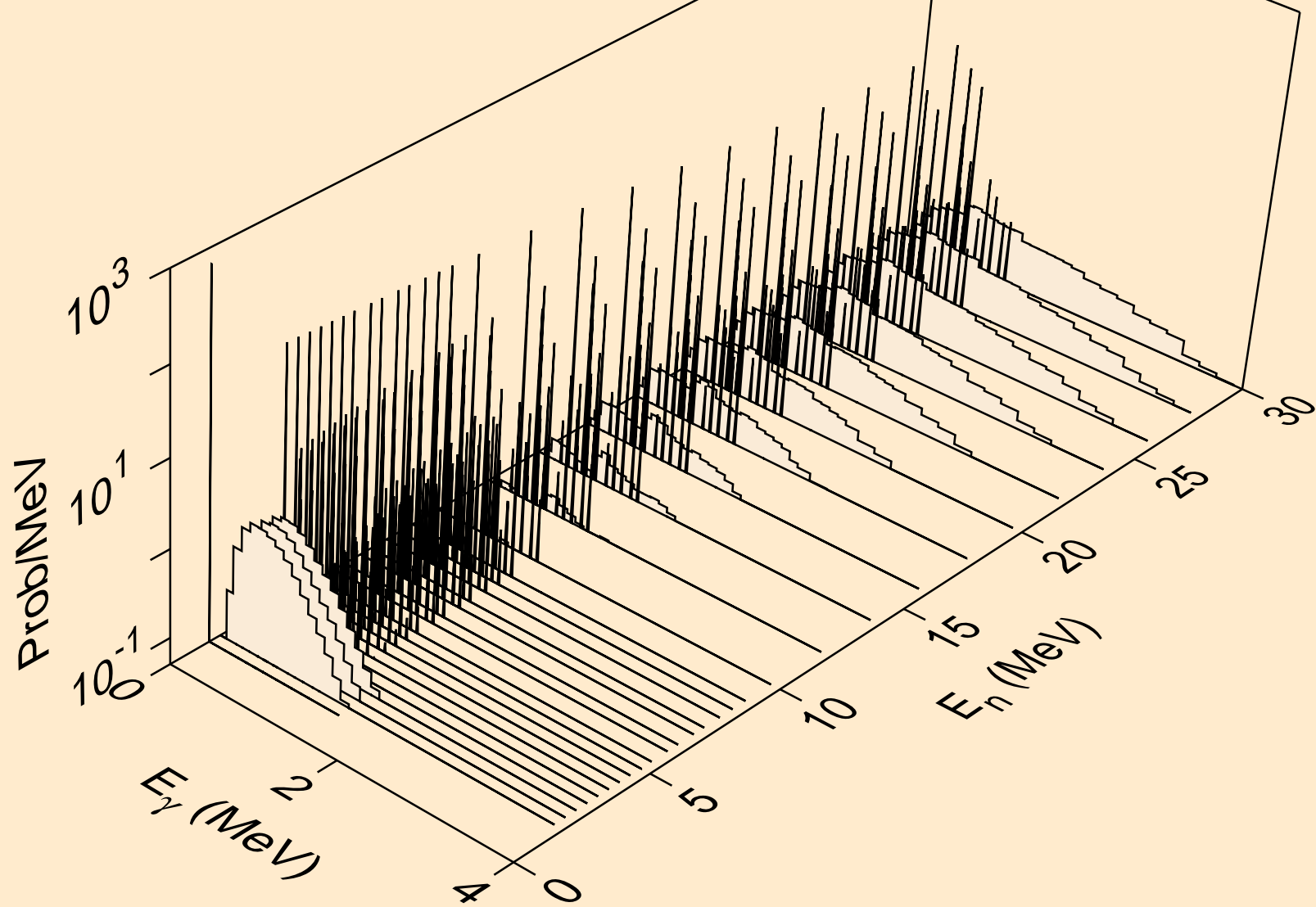
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Photon emission for (n,he3)



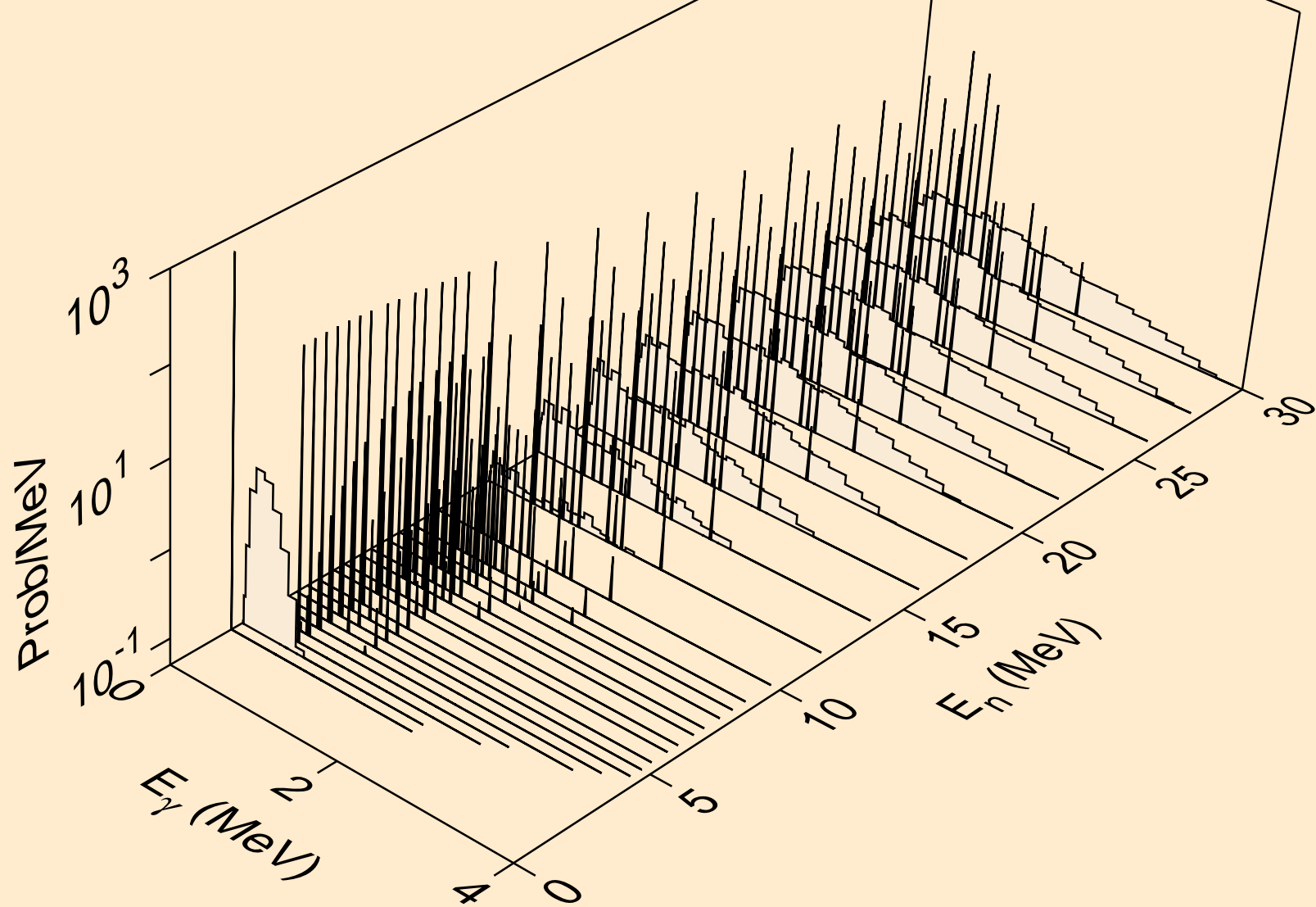
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Photon emission for (n,a)



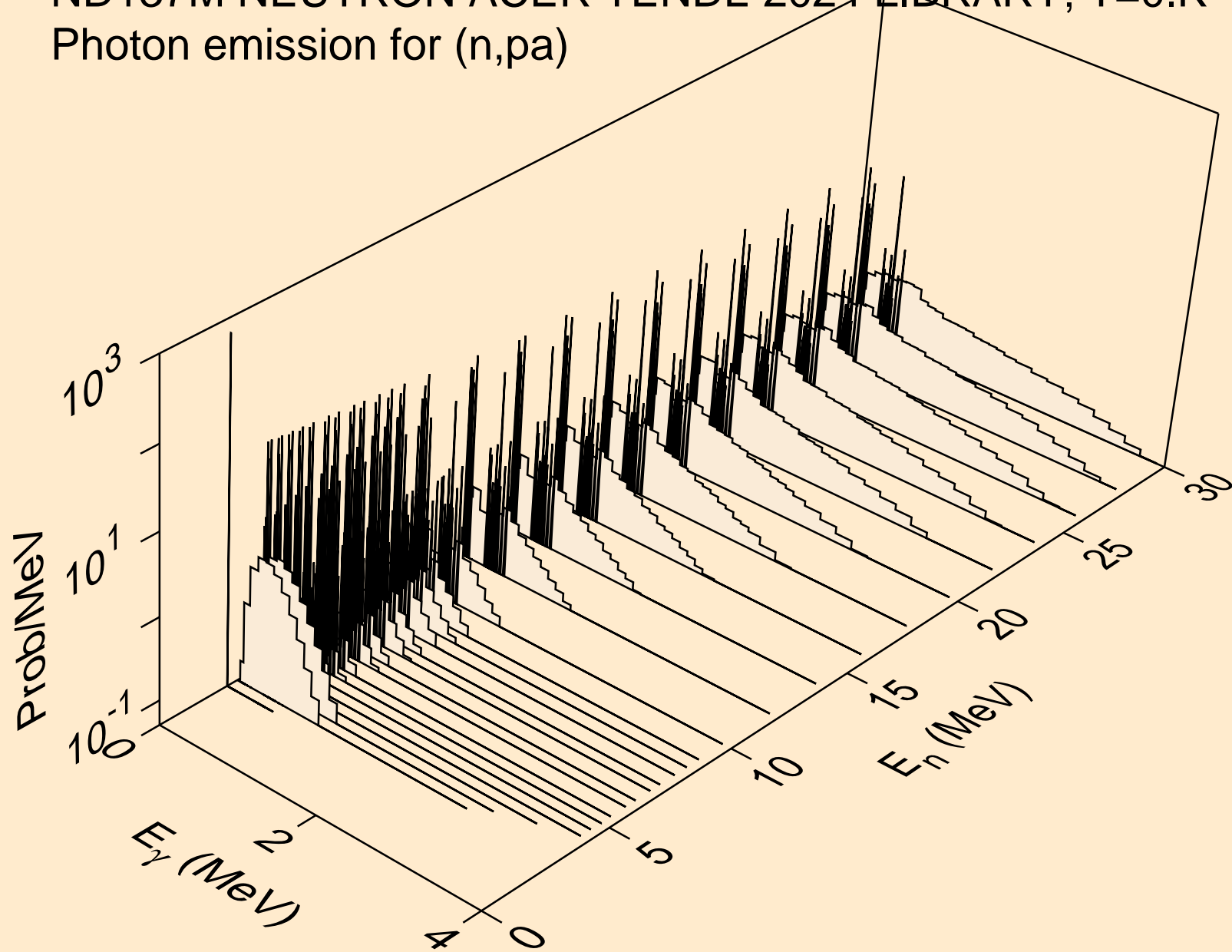
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Photon emission for (n,2a)



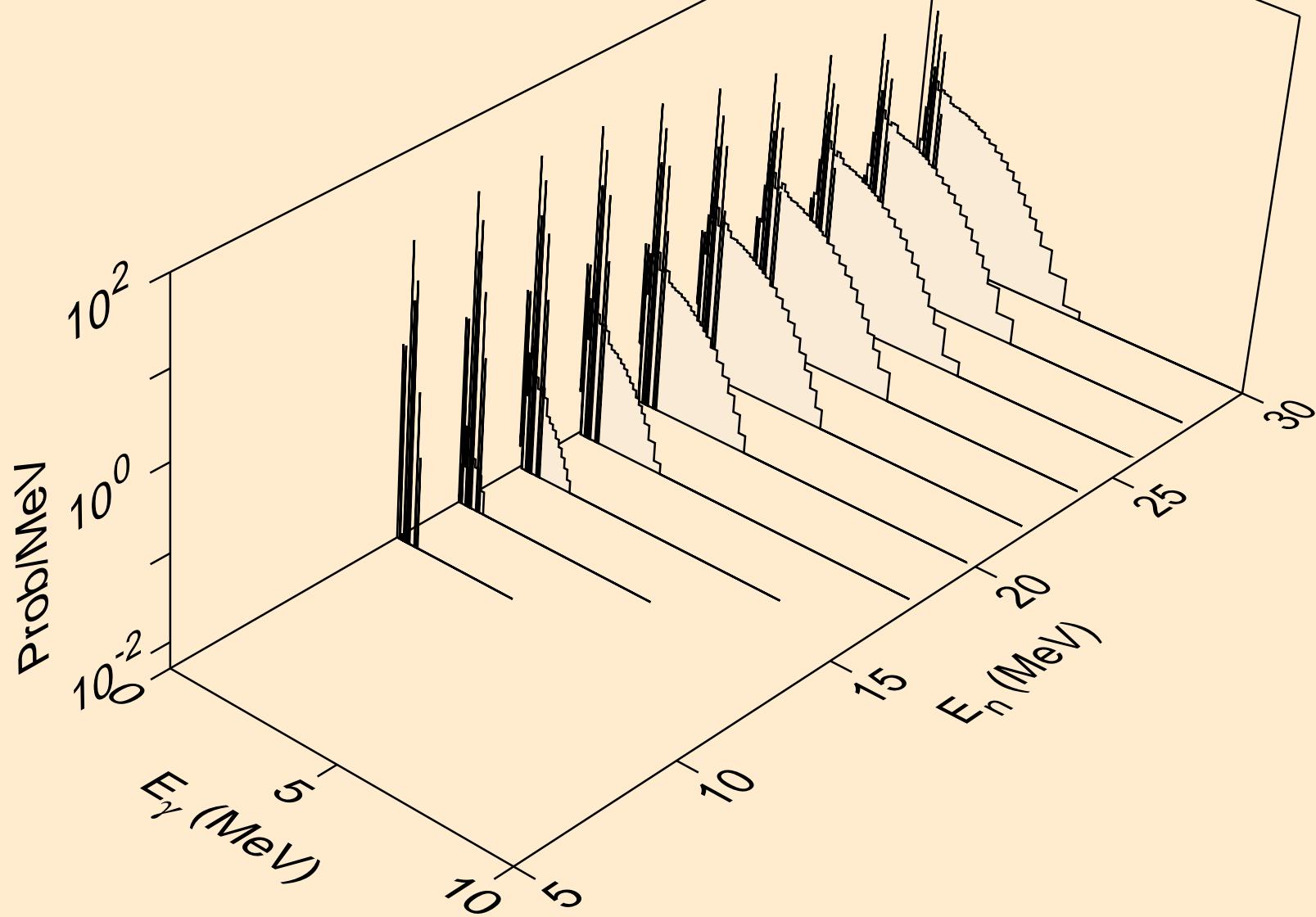
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Photon emission for (n,2p)



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Photon emission for (n,p)

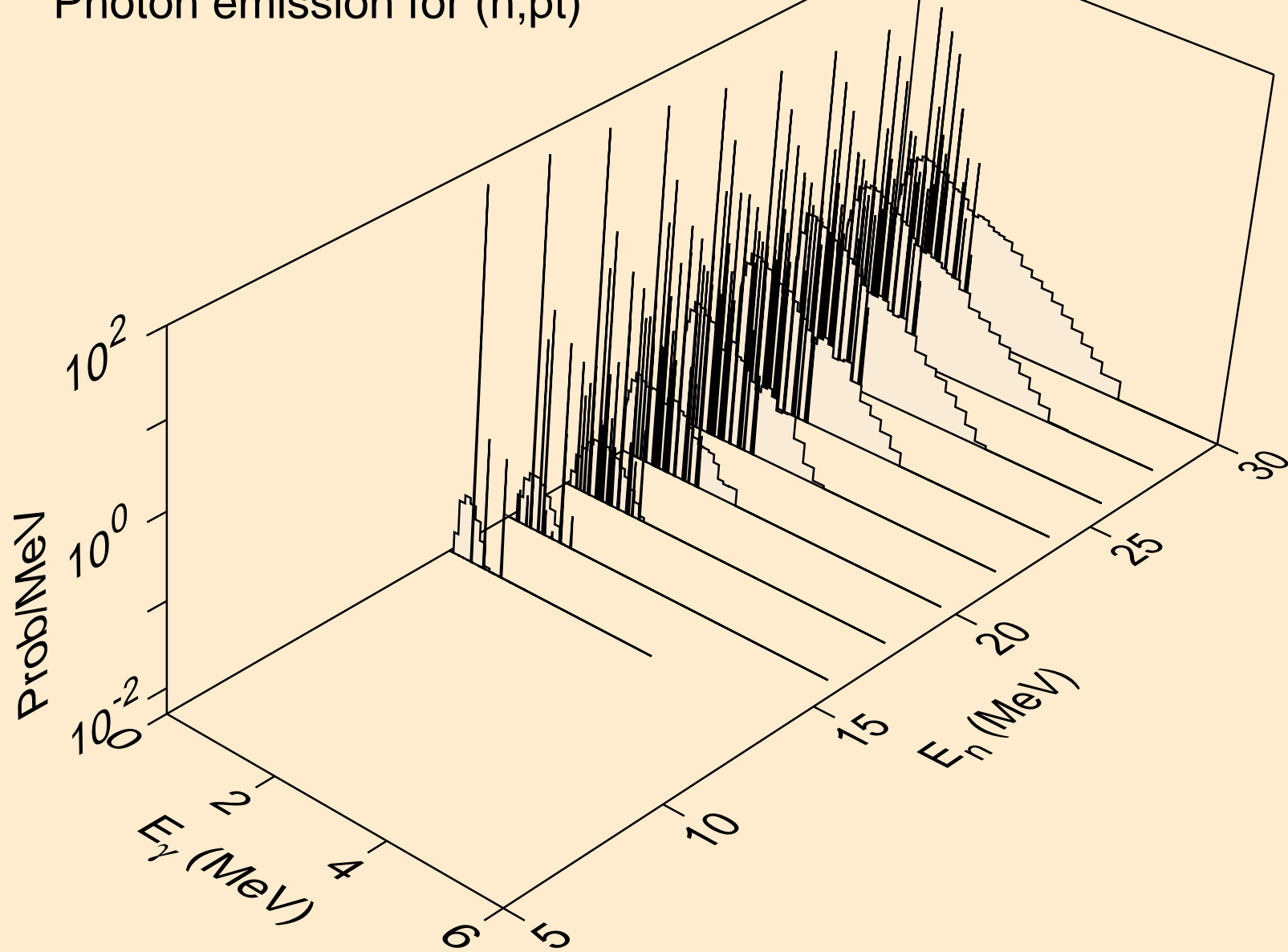


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Photon emission for (n,pd)

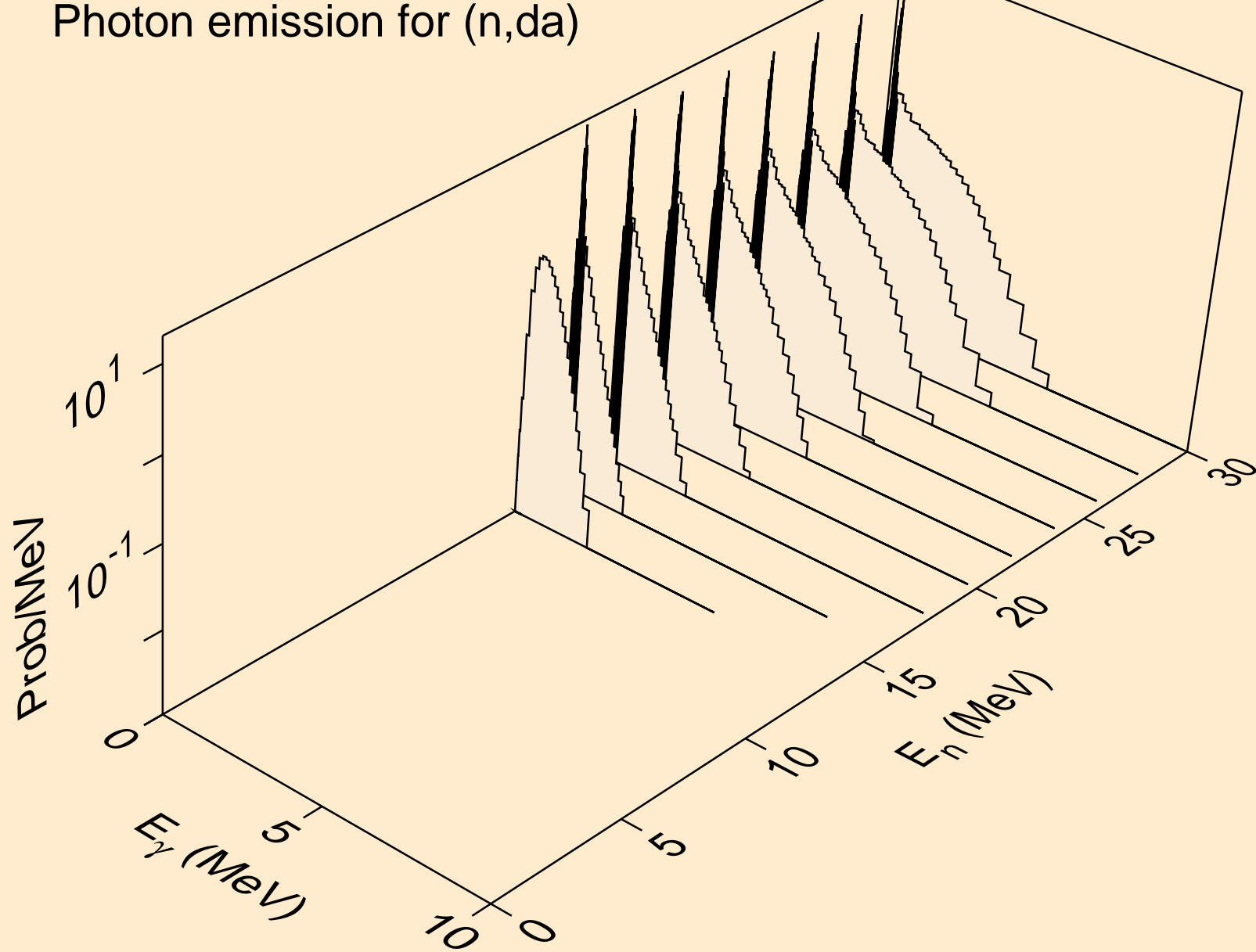




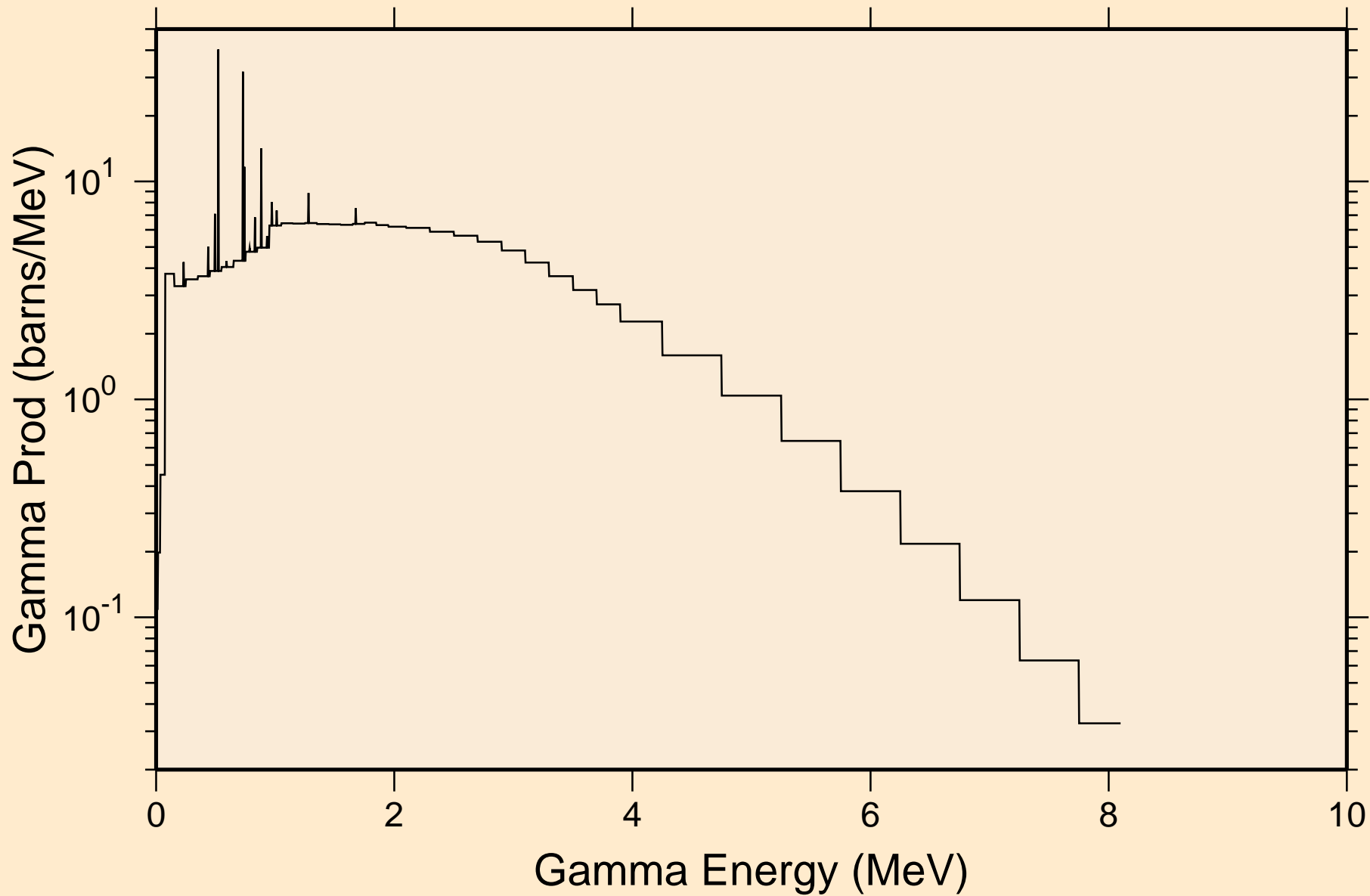
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Photon emission for (n,pt)



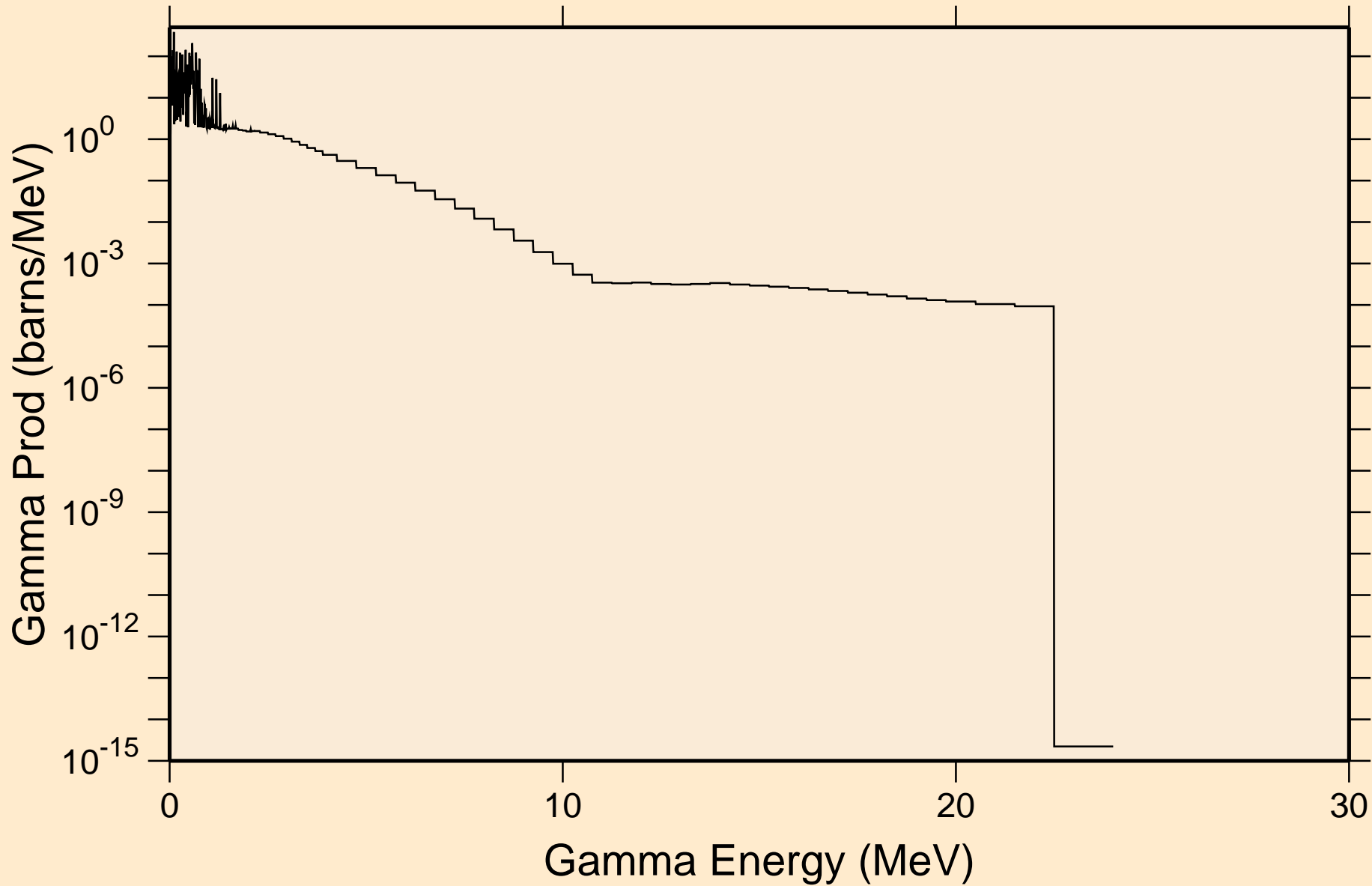
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Photon emission for (n,da)



ND137M NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
thermal capture photon spectrum

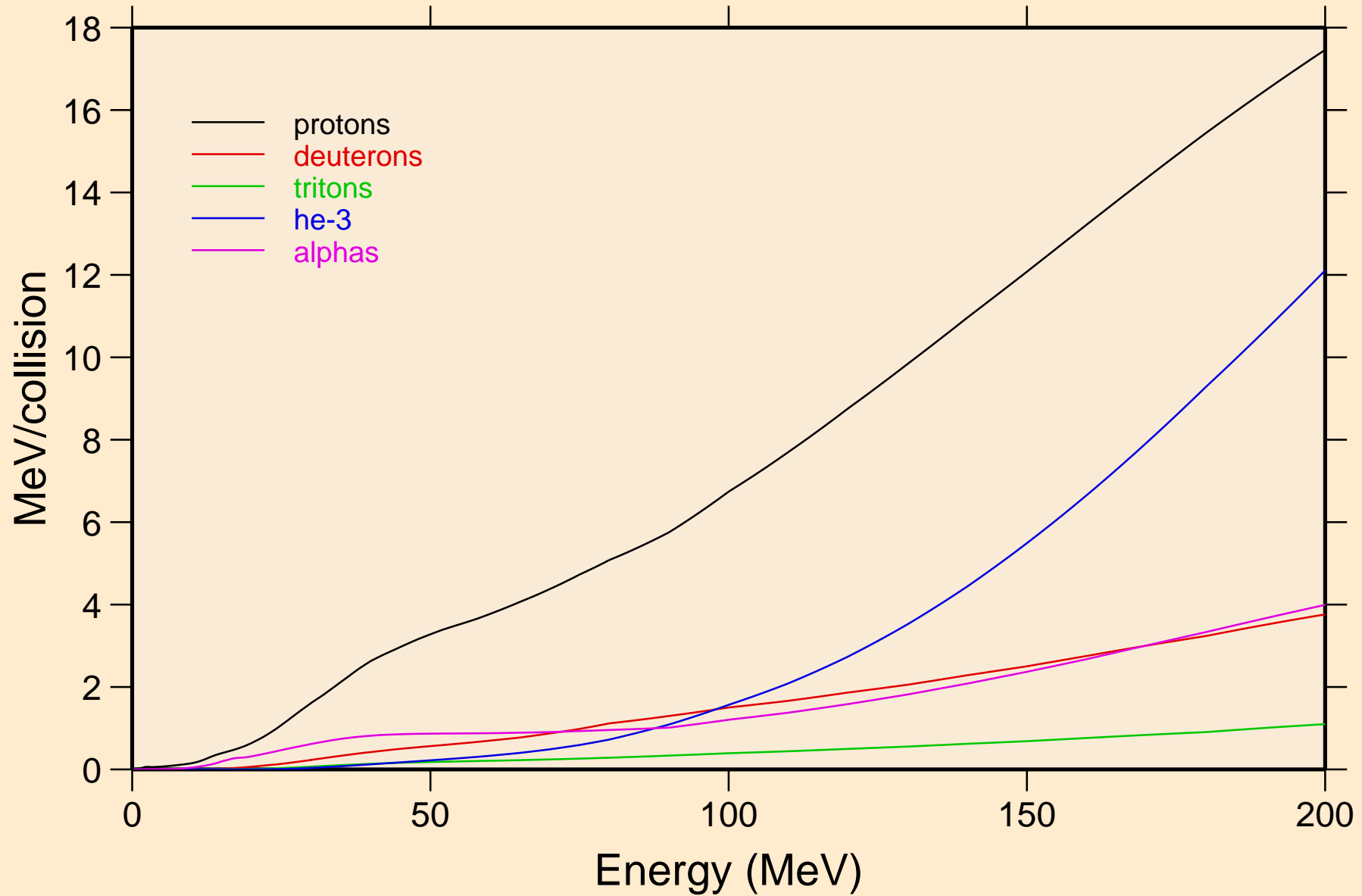


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14 MeV photon spectrum



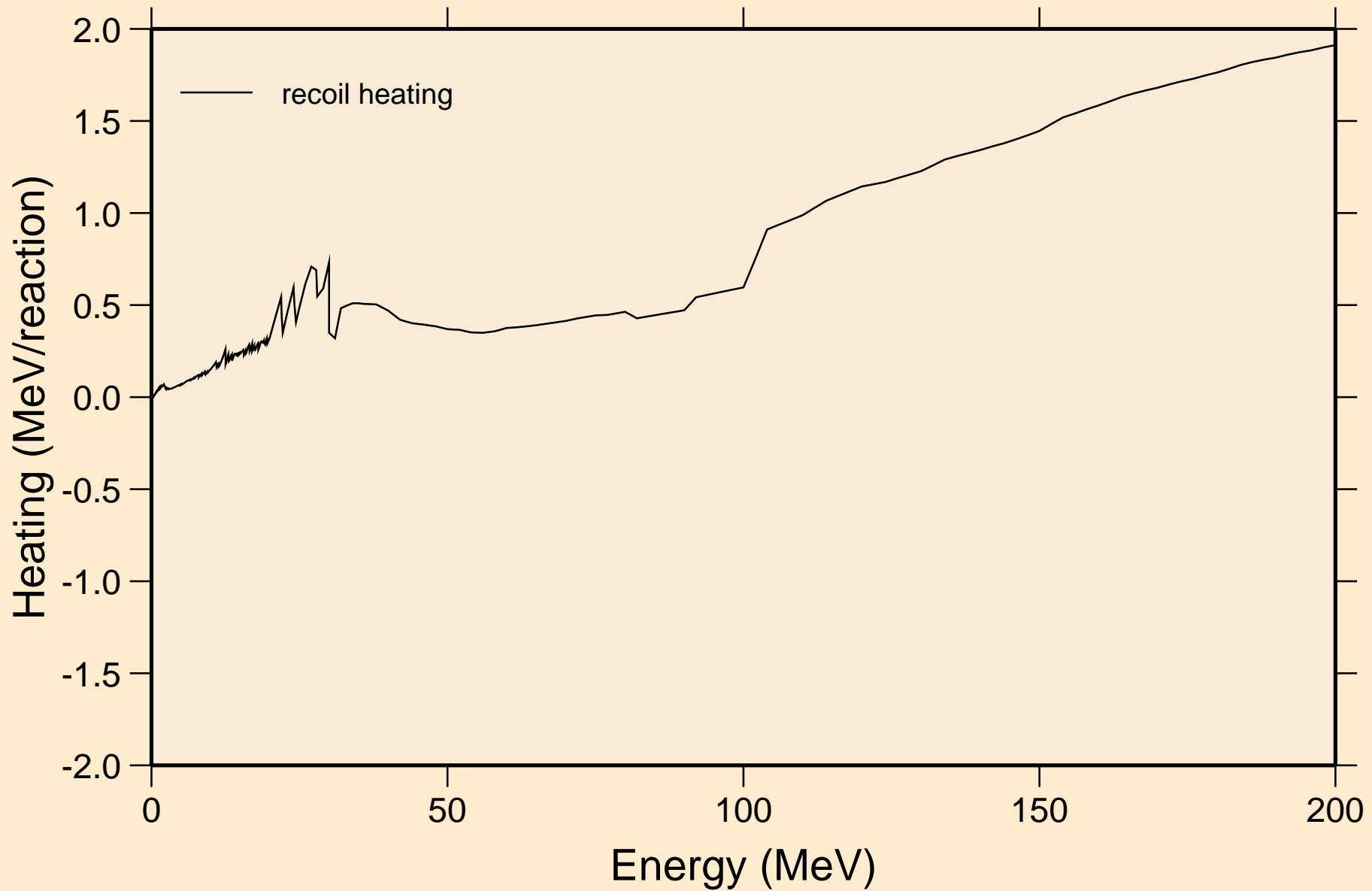
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## Particle heating contributions



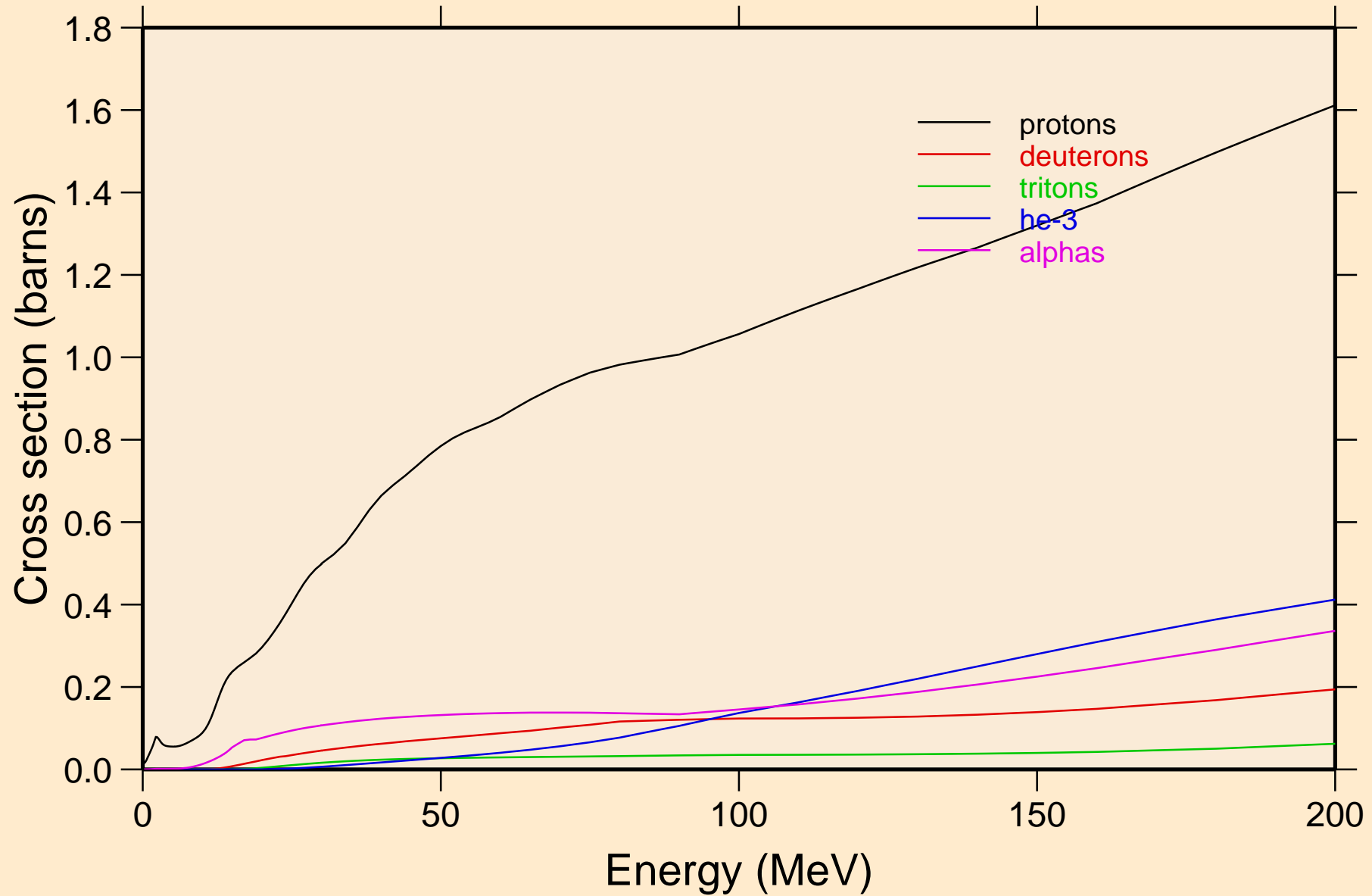
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## Recoil Heating

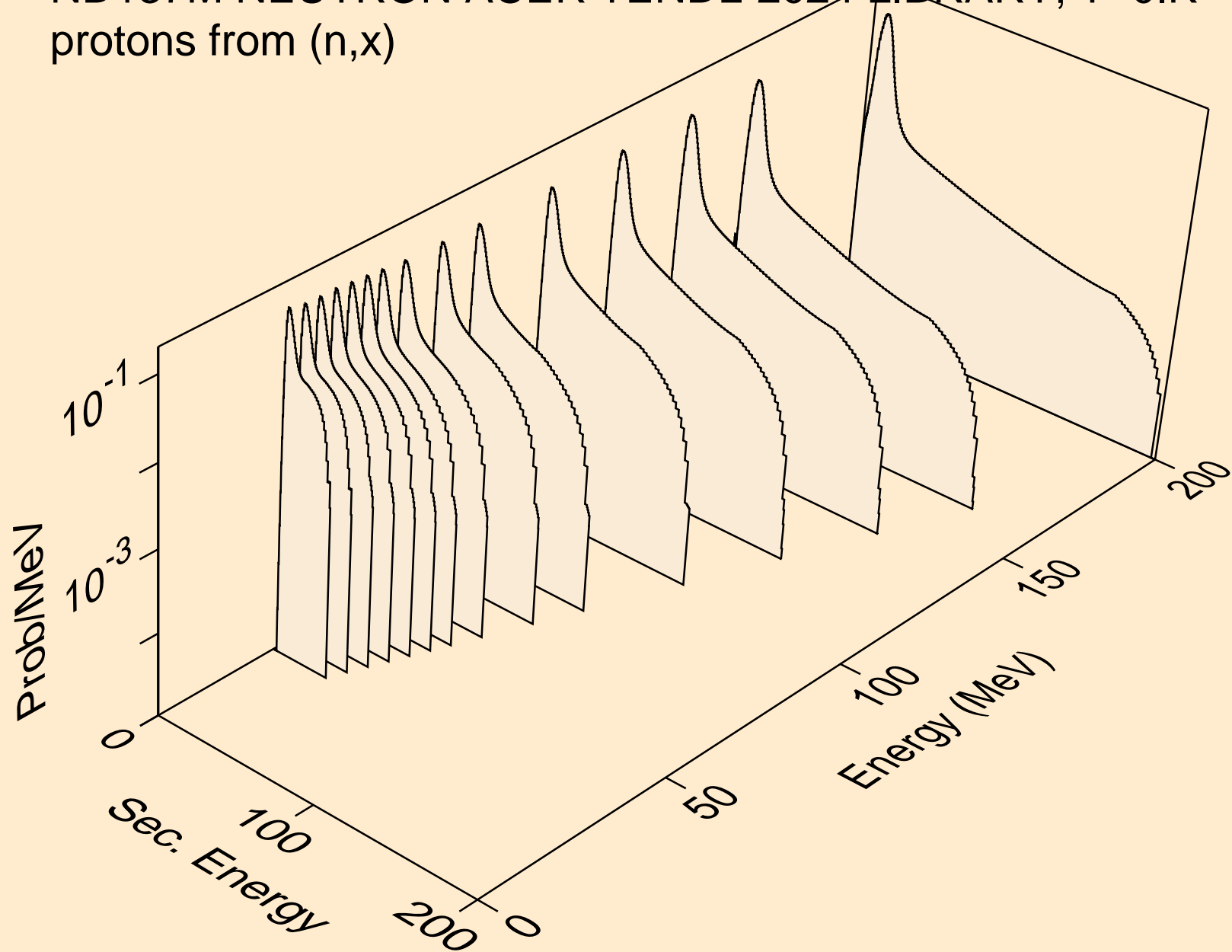


# ND137M NEUTRON ACER TENDL-2024 LIBRARY; T=0.K

## Particle production cross sections

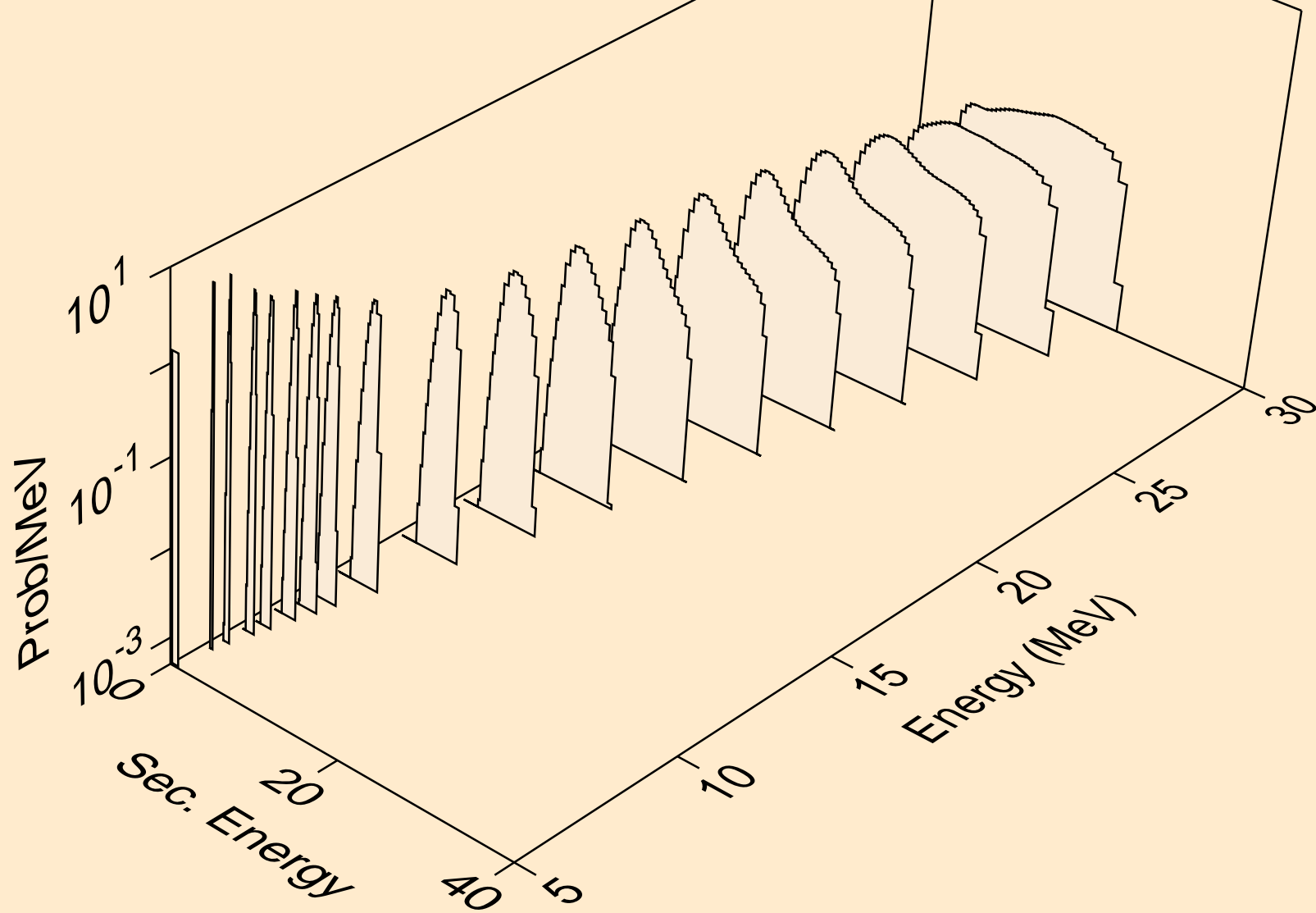


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protons from (n,x)

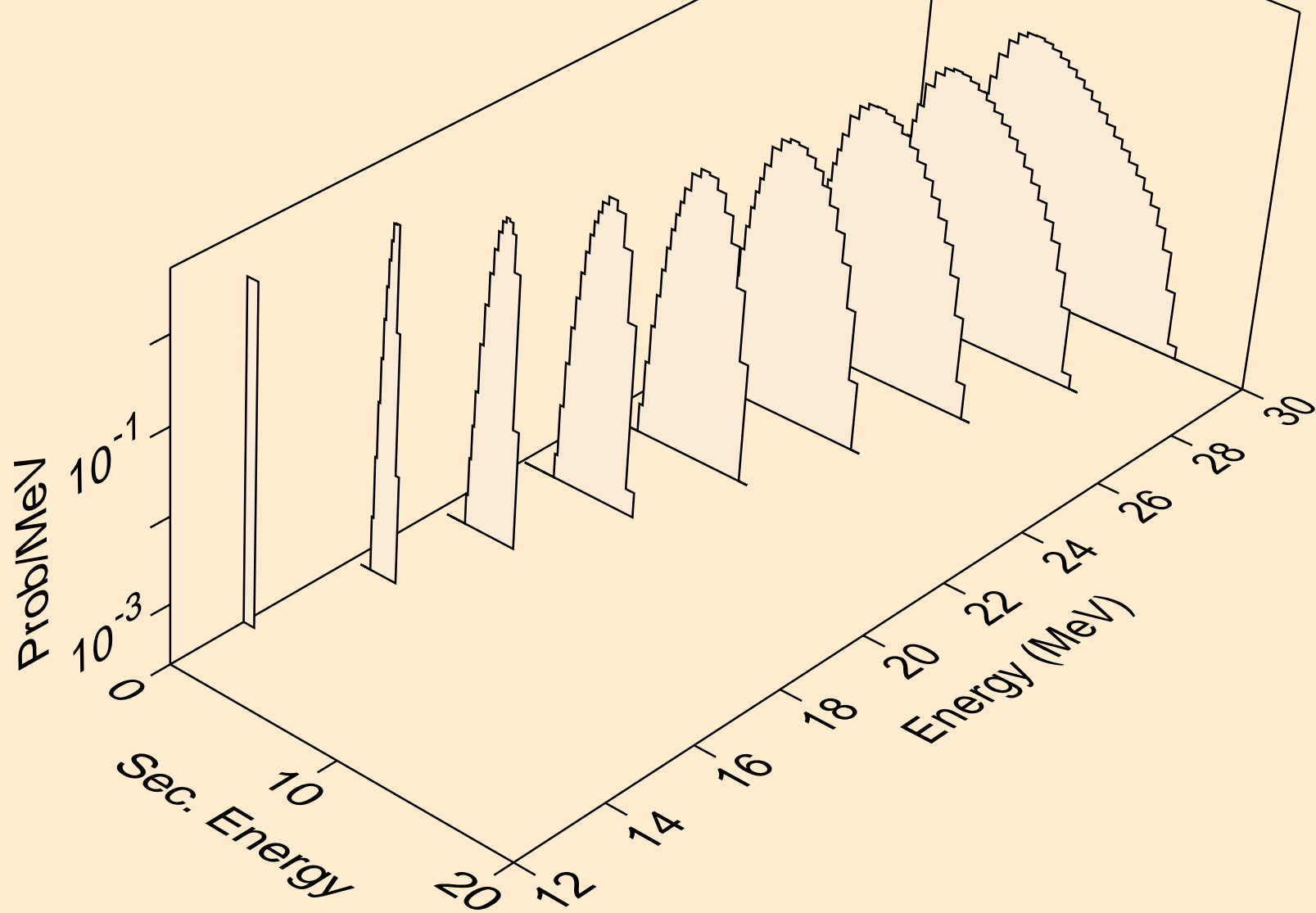




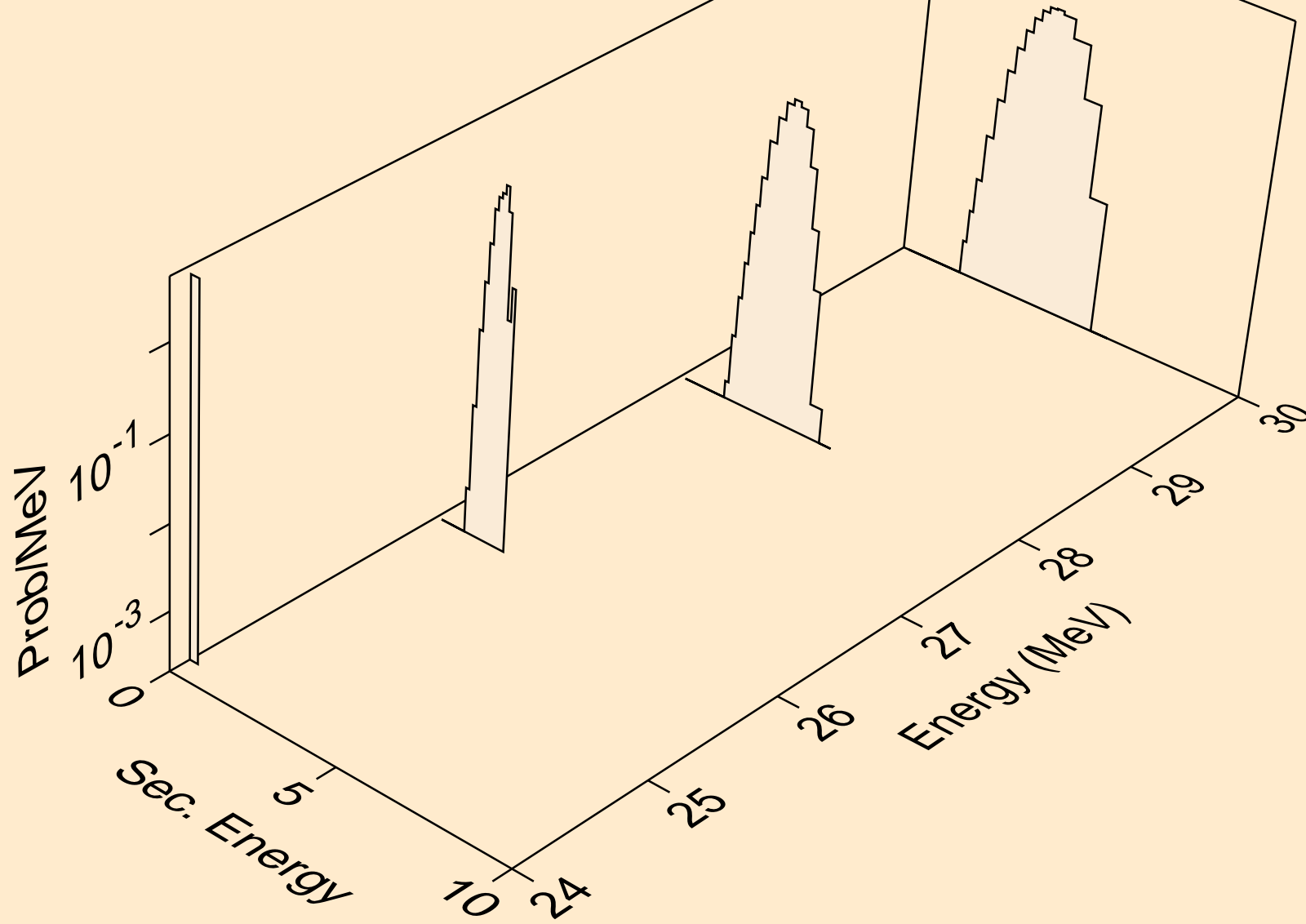
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protons from (n,n\*)p



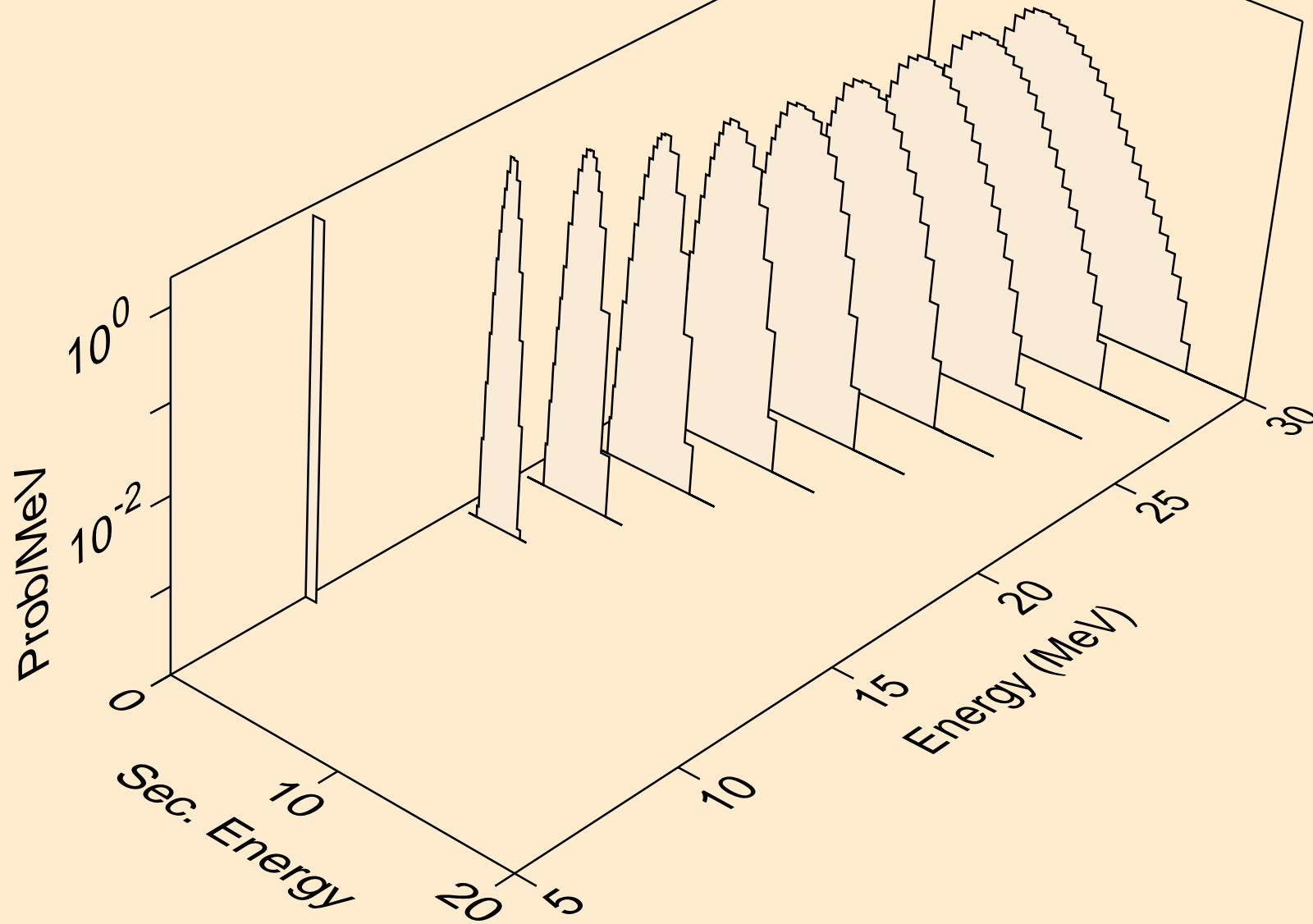
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protons from (n,2np)



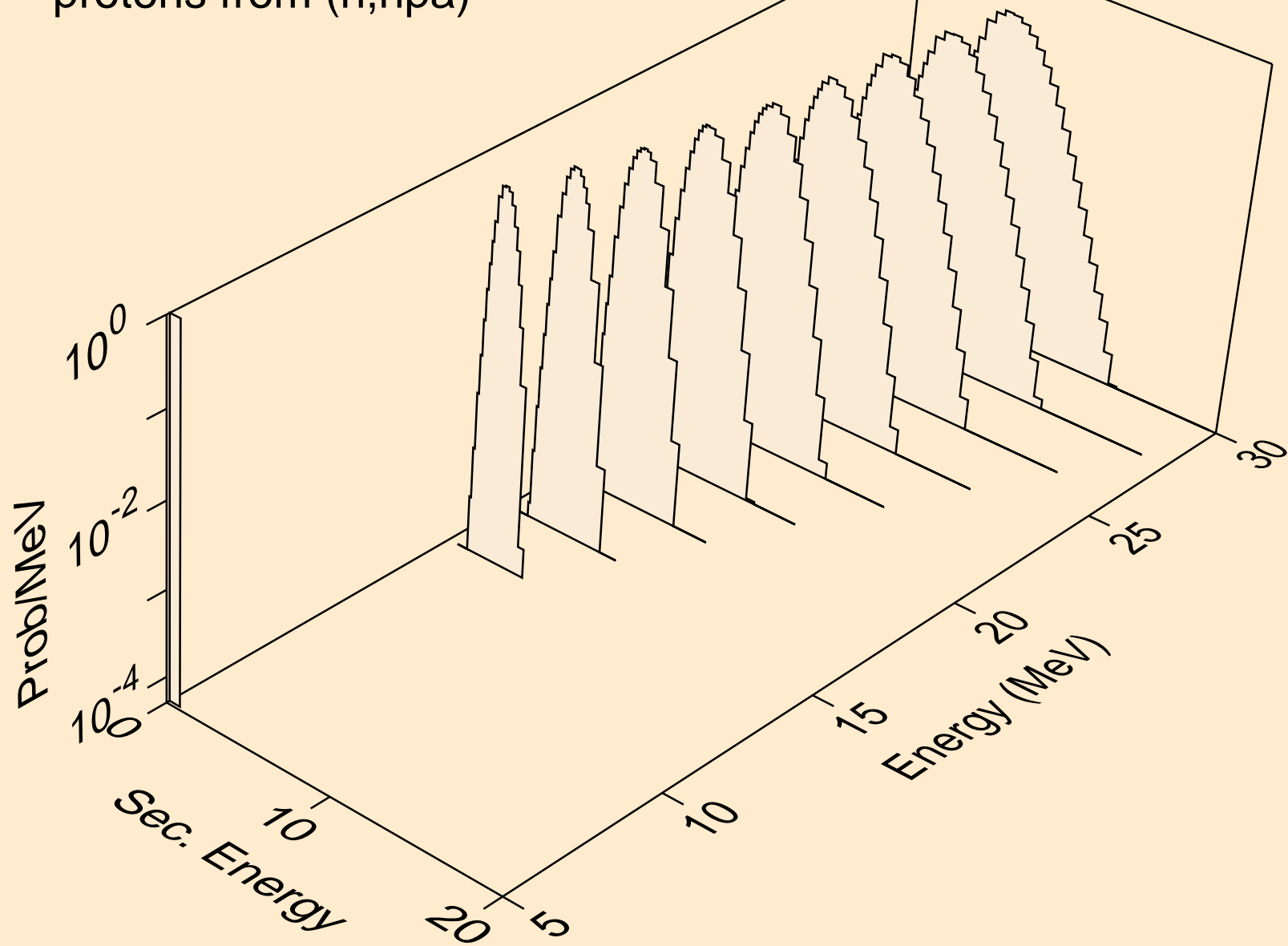
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protons from (n,3np)



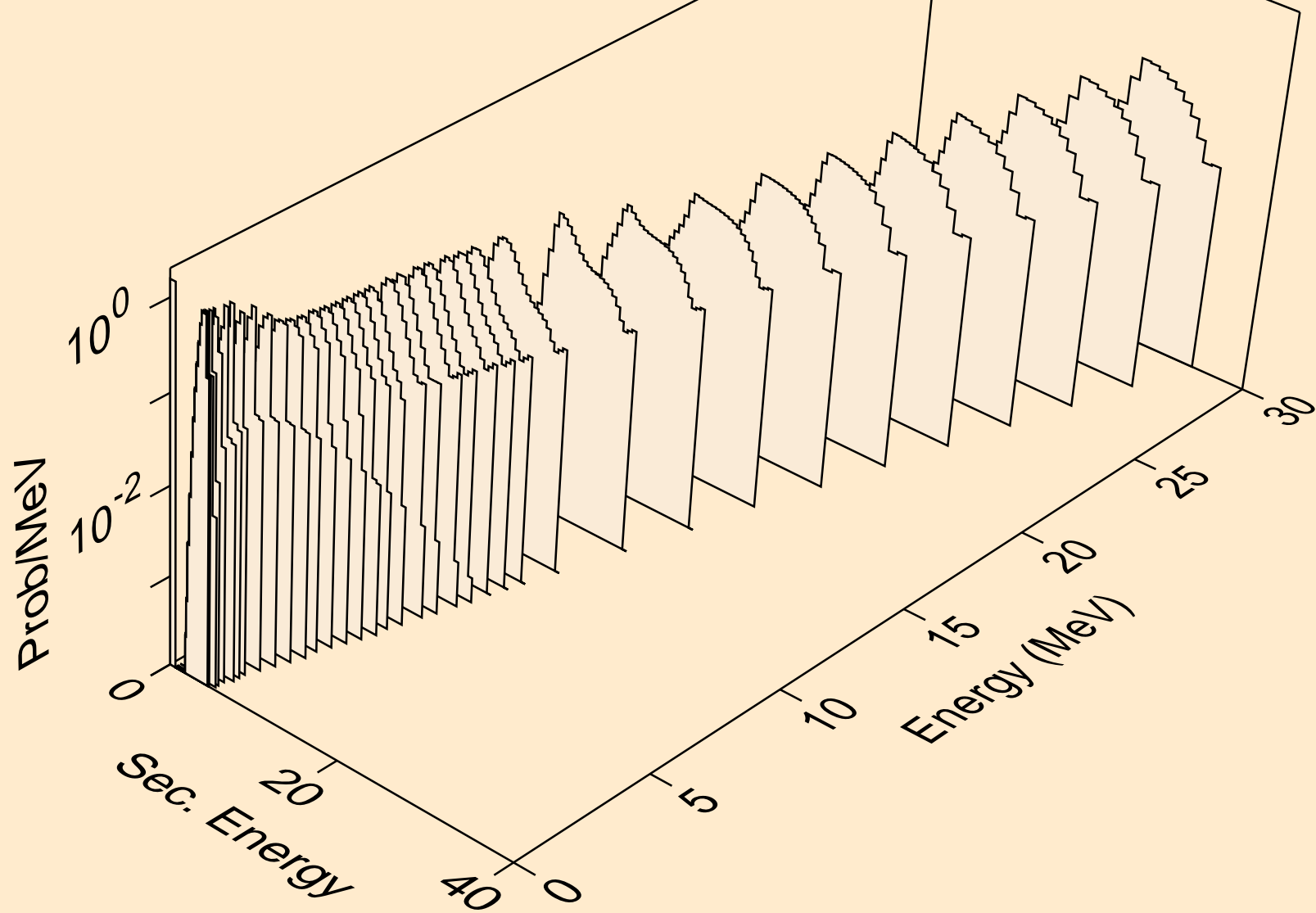
ND137M NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
protons from (n,n2p)



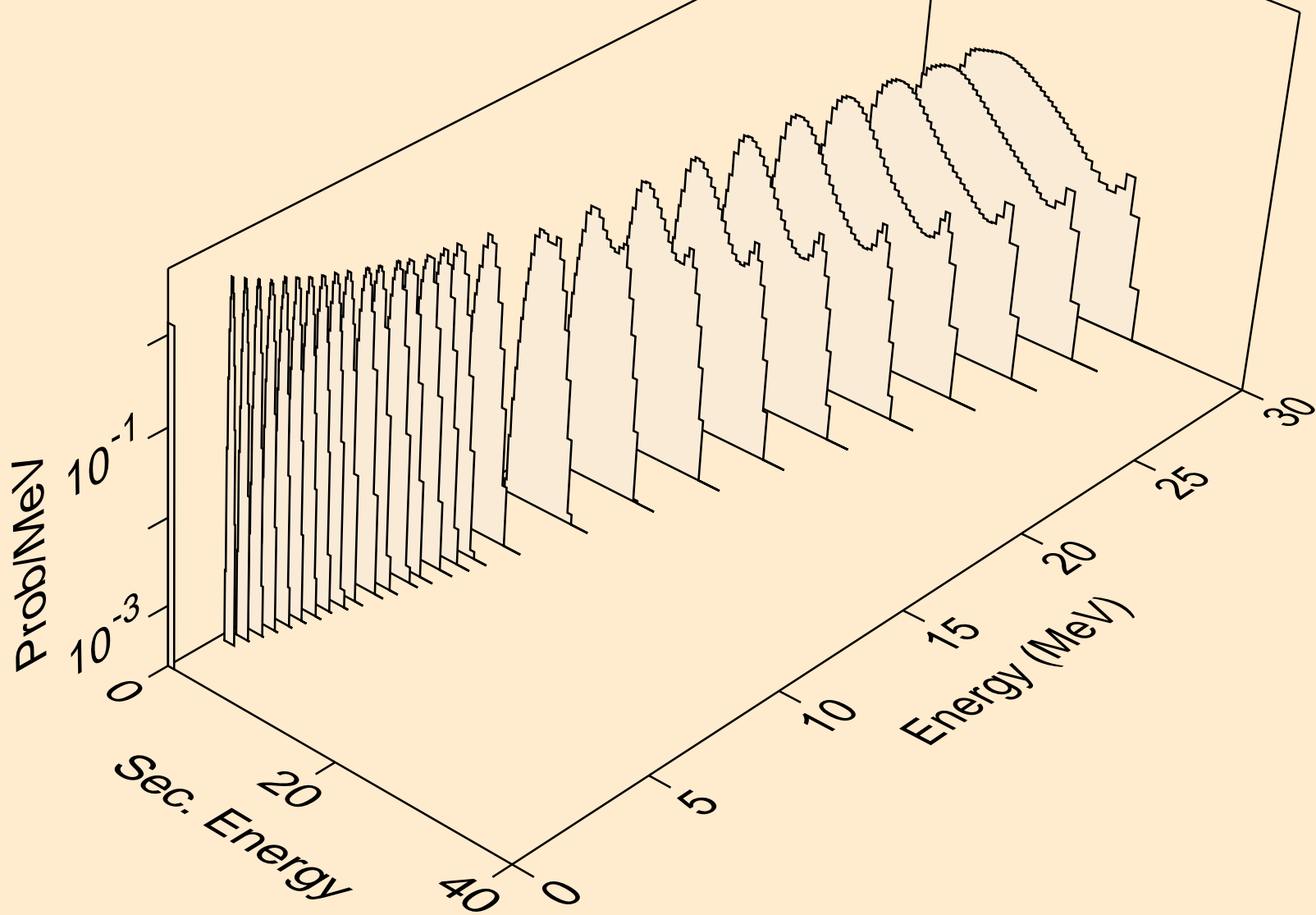
ND137M NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
protons from (n,npa)



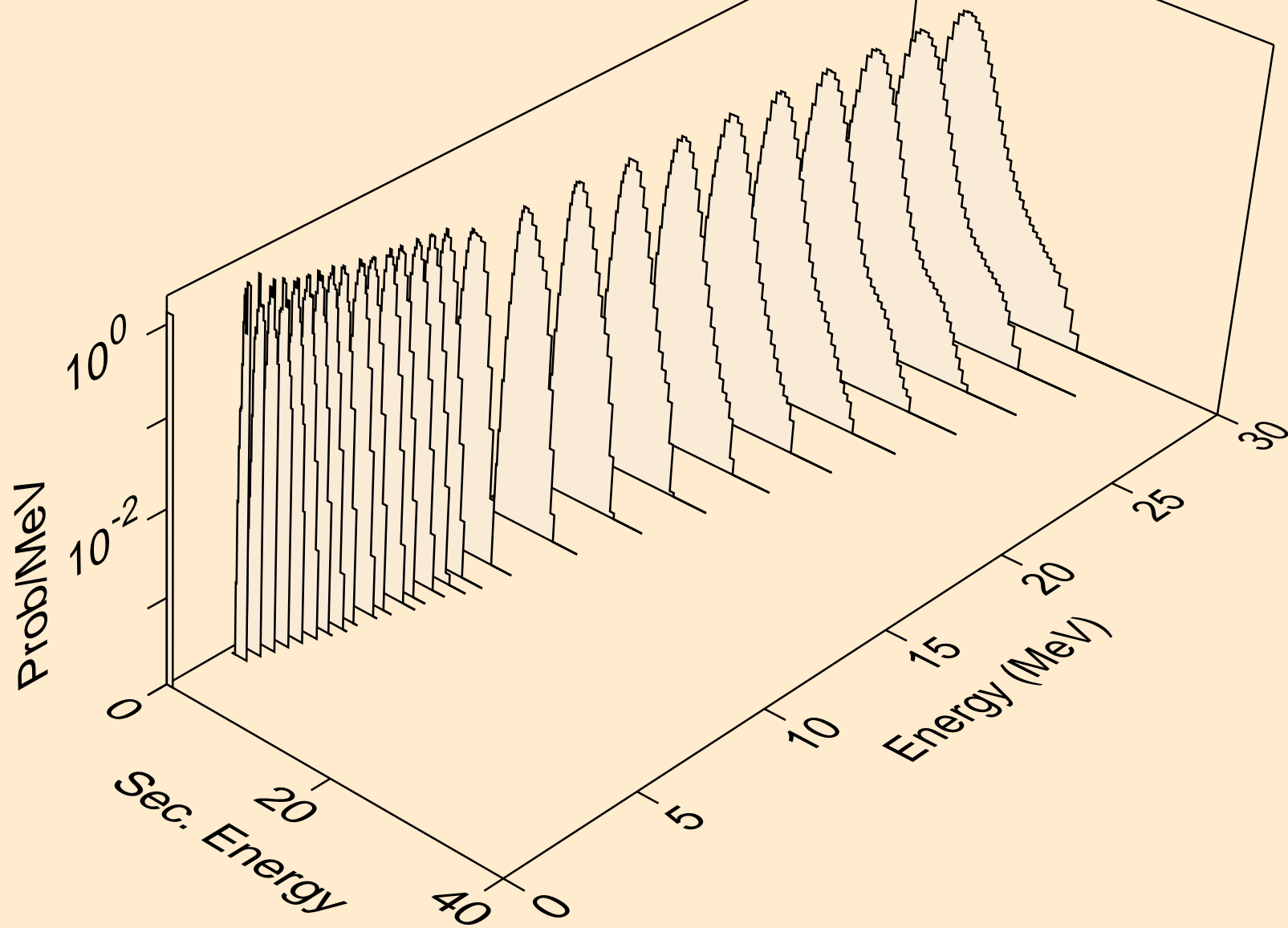
ND137M NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
protons from (n,p)



ND137M NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
protons from (n,2p)

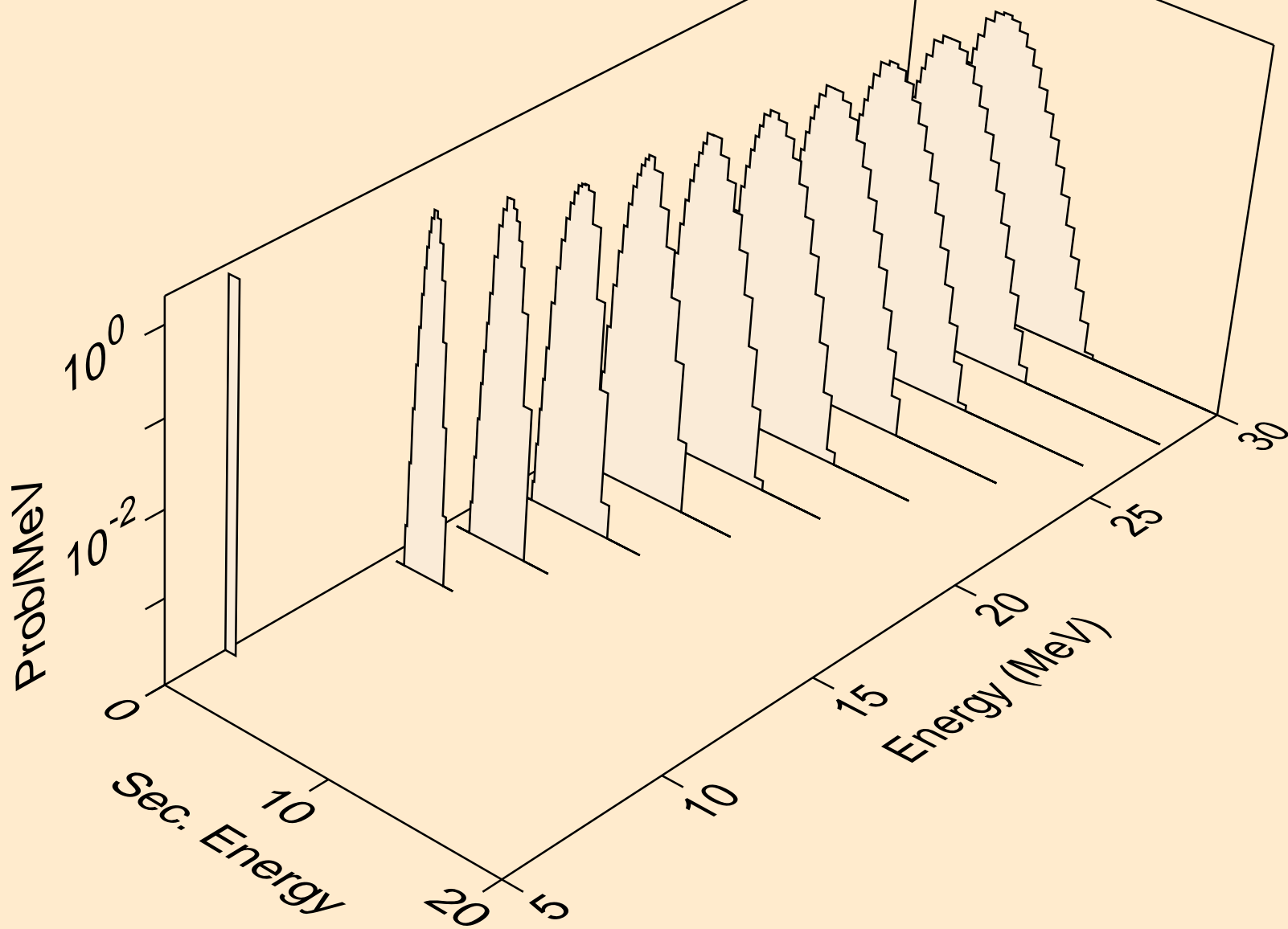


ND137M NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
protons from (n,p)

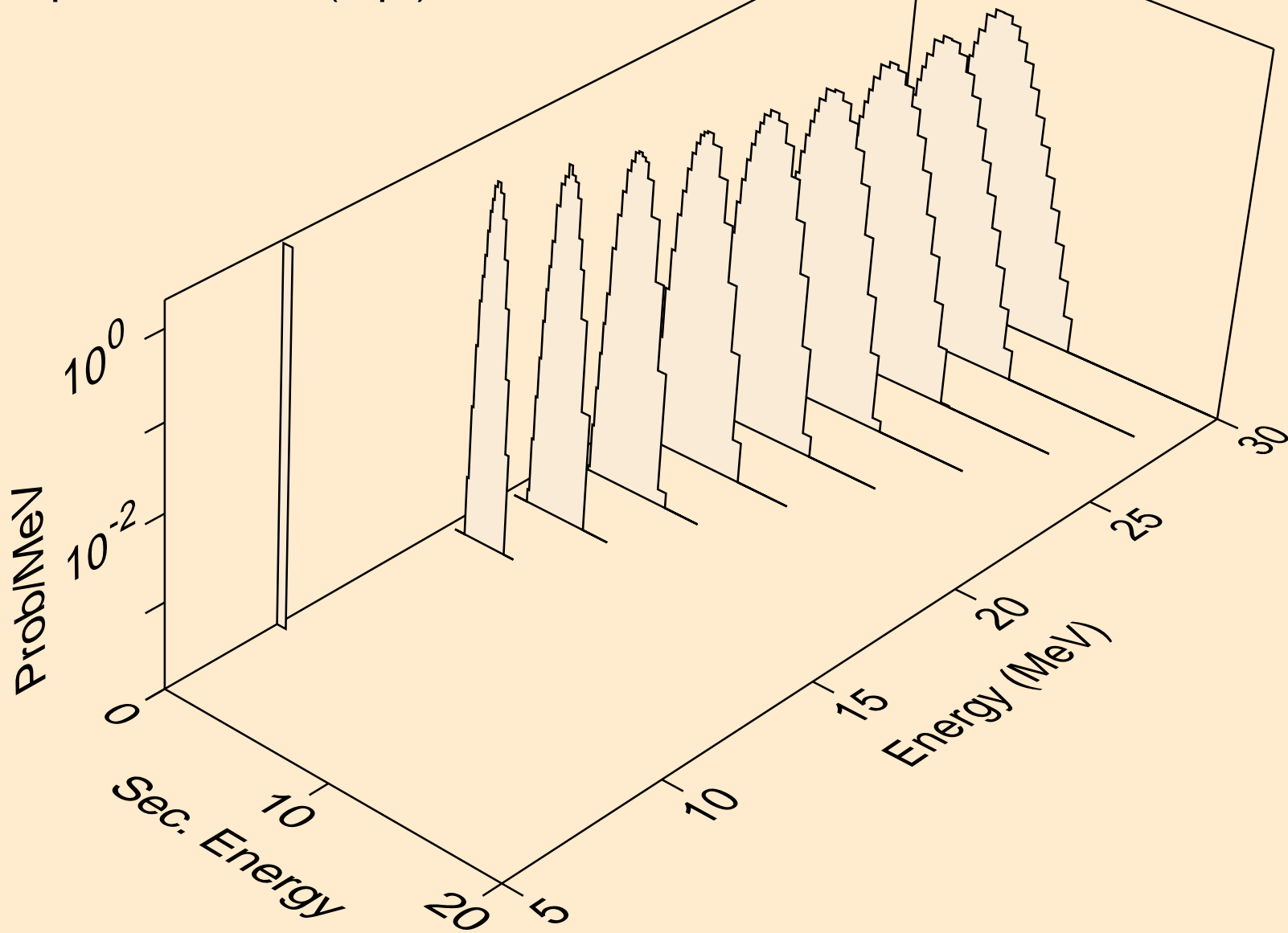




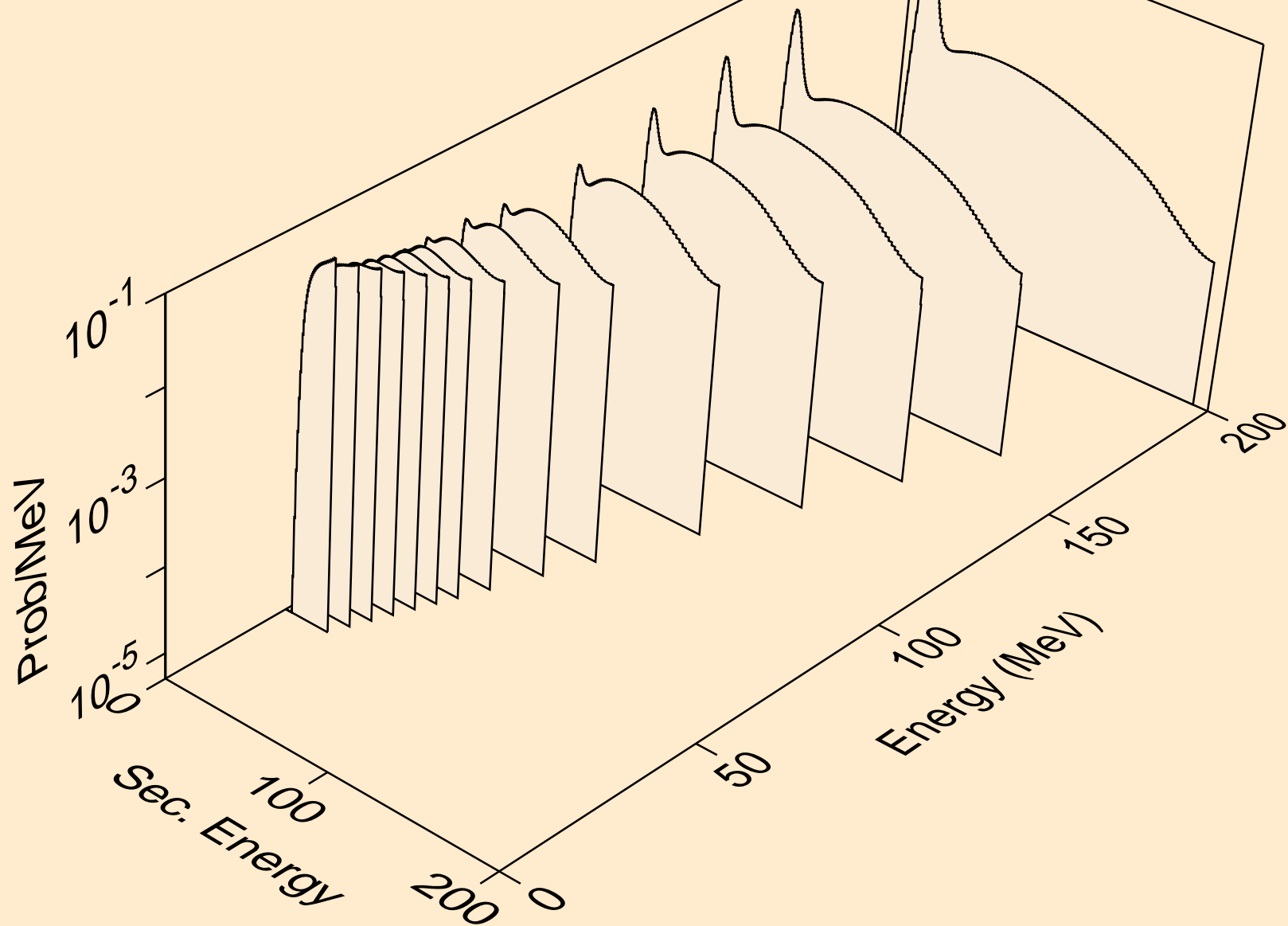
ND137M NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
protons from (n,pd)



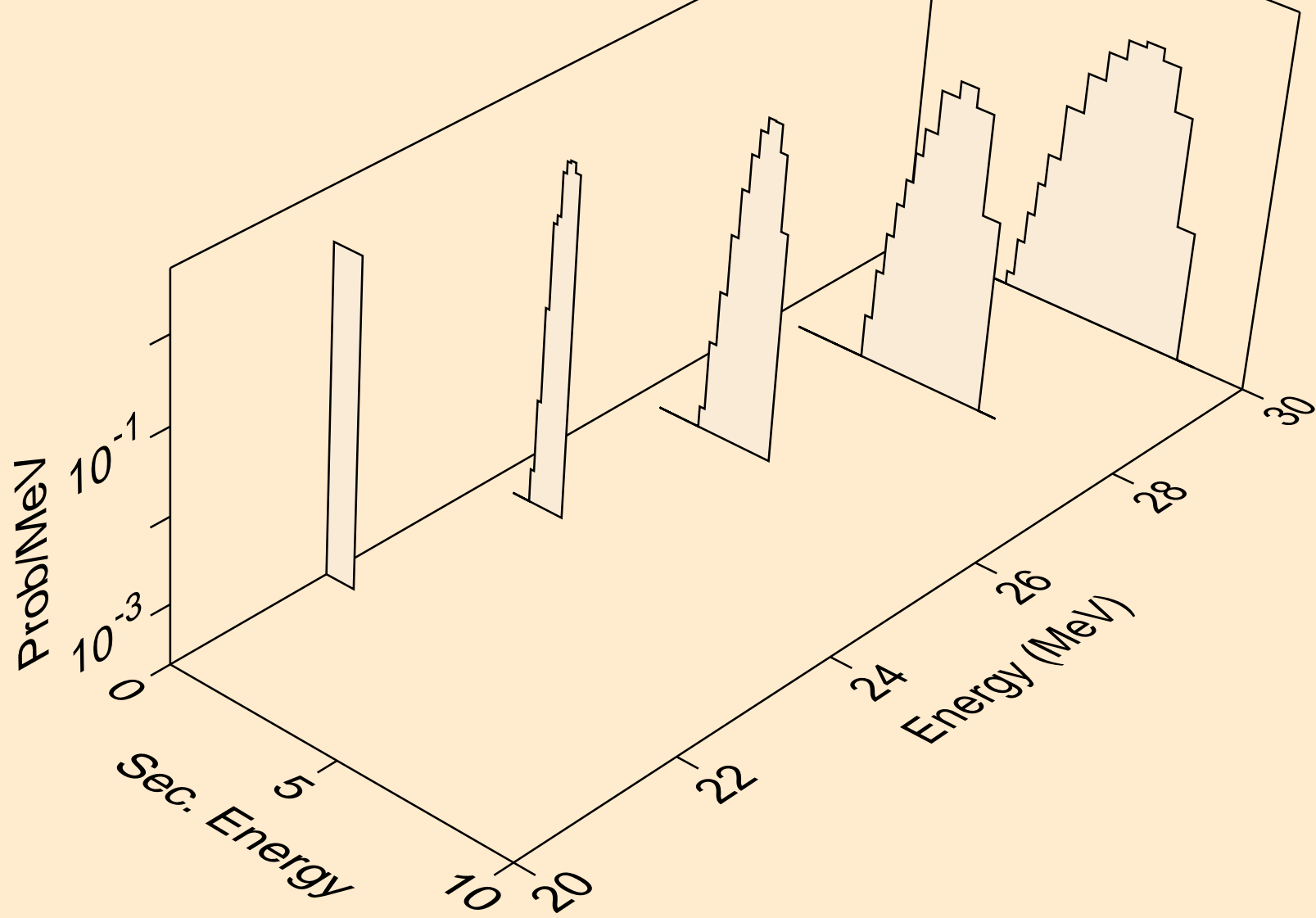
ND137M NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
protons from (n,pt)



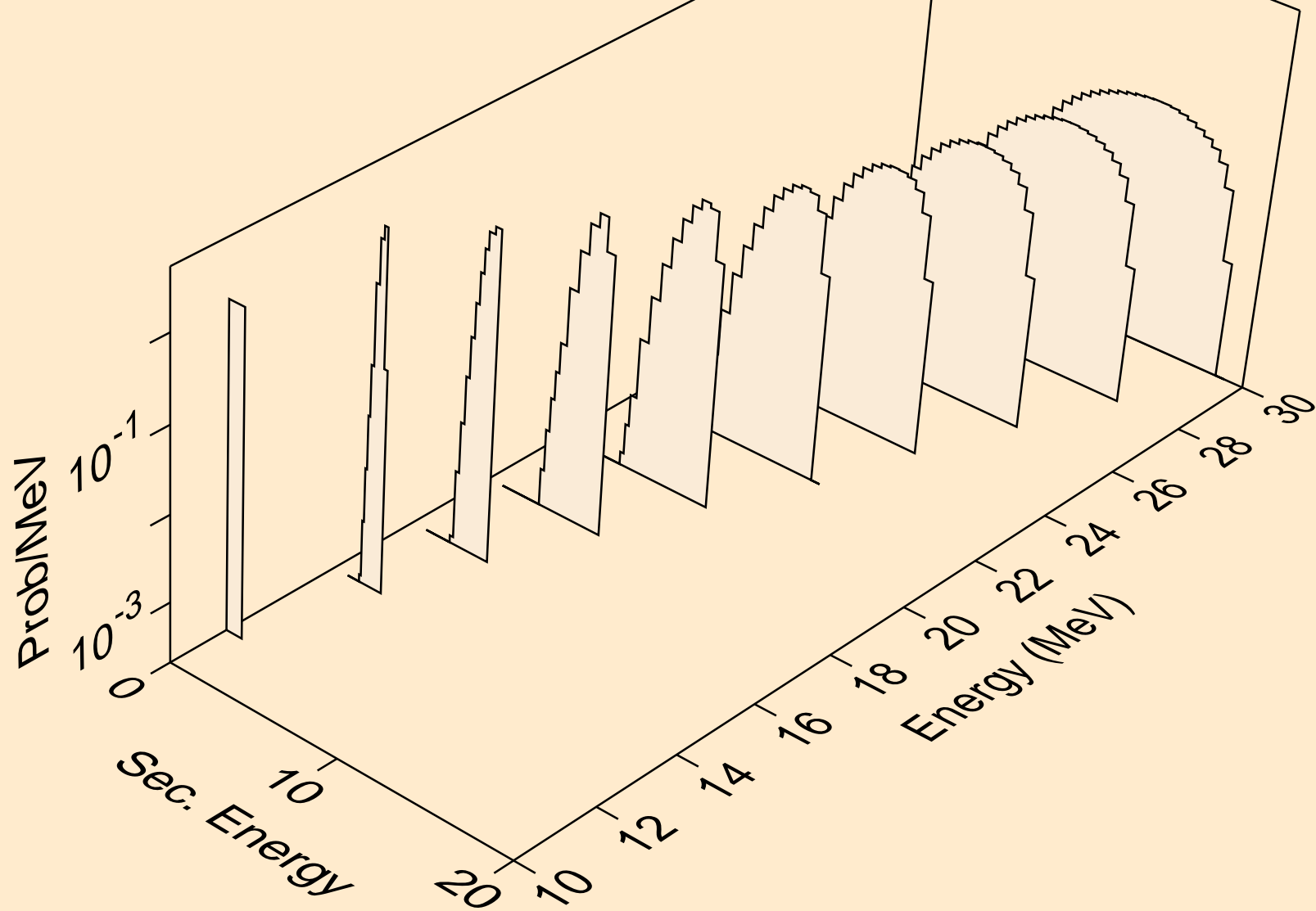
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deuterons from (n,x)



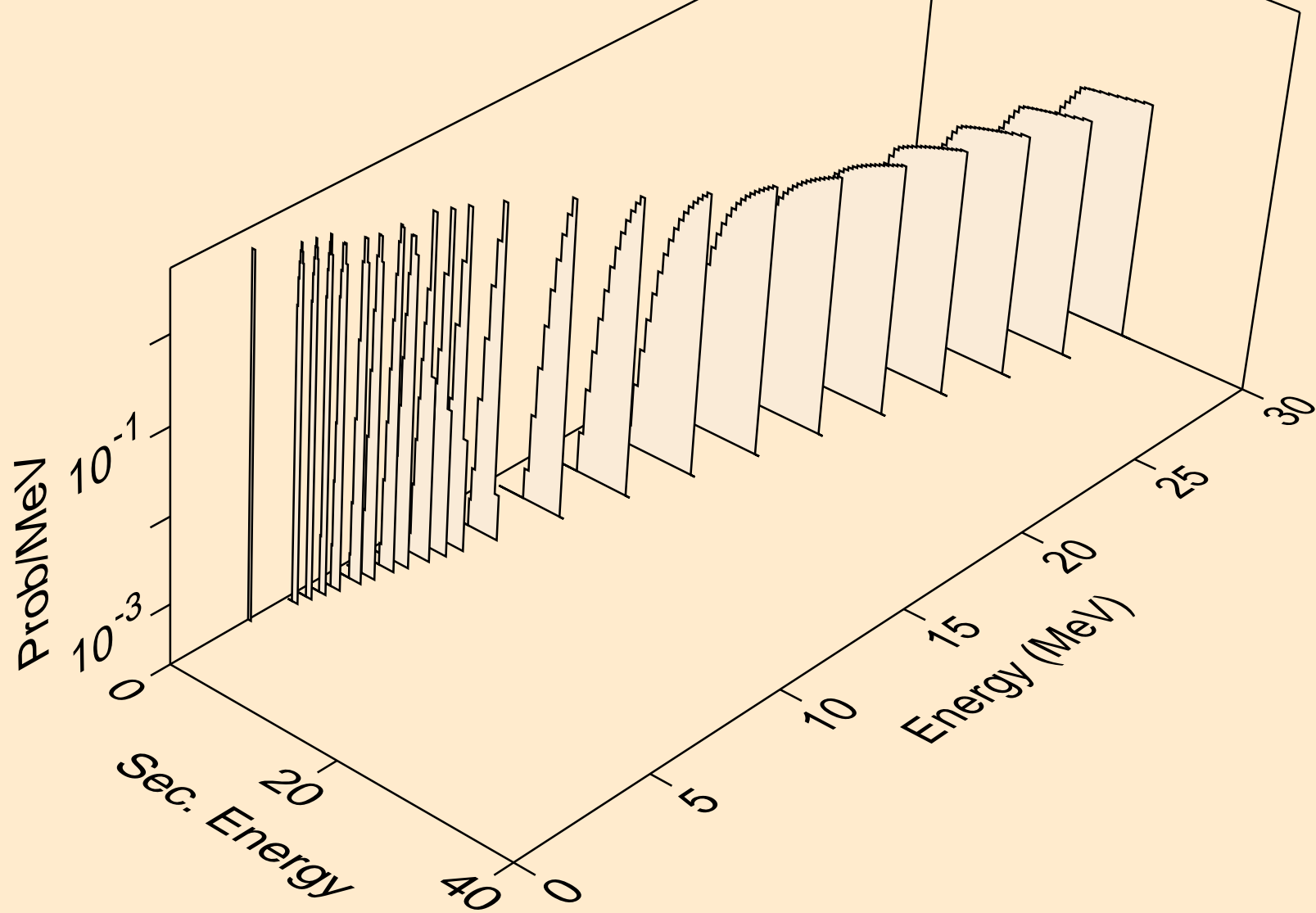
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deuterons from (n,2nd)



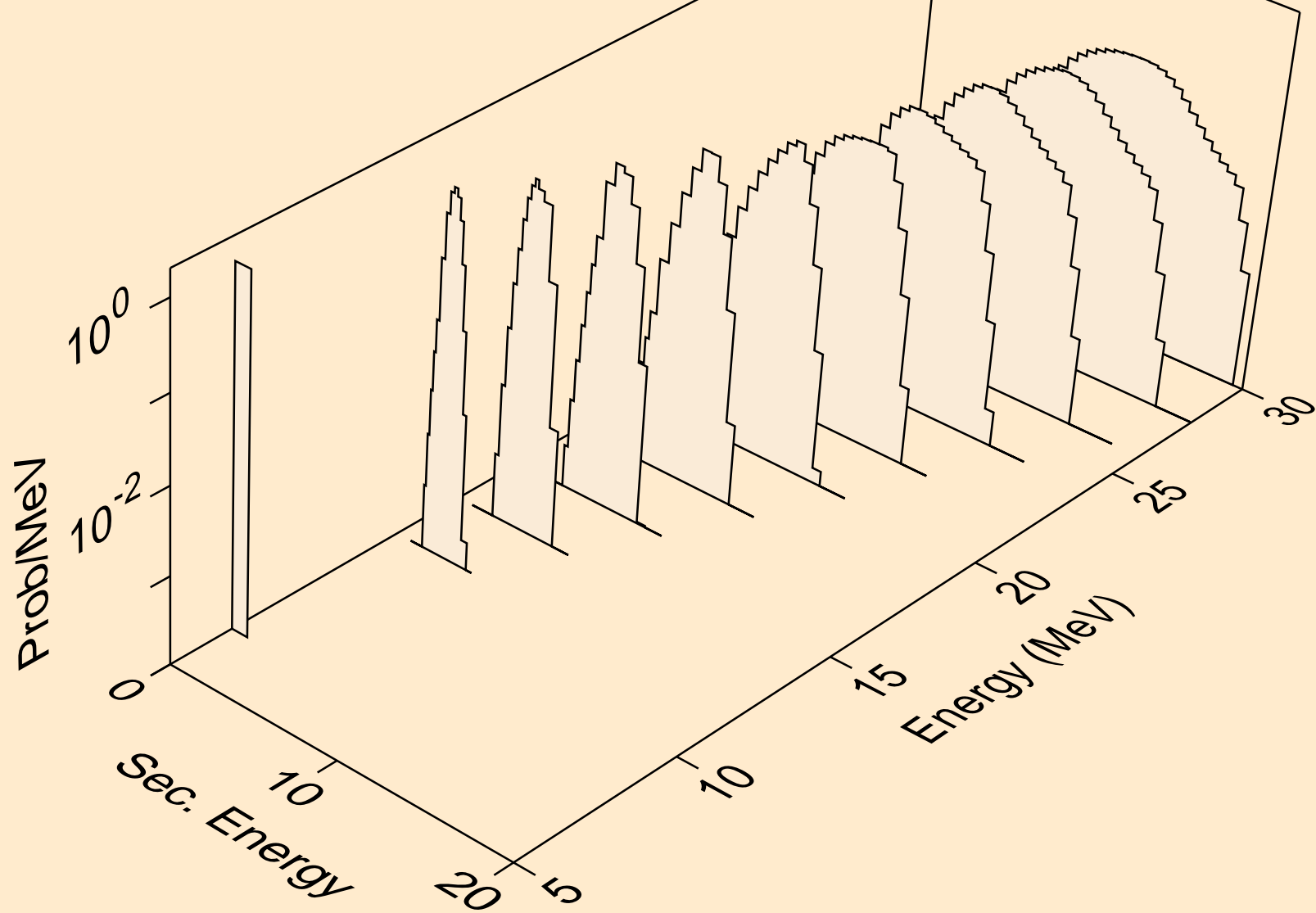
ND137M NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
deuterons from (n,n\*)d



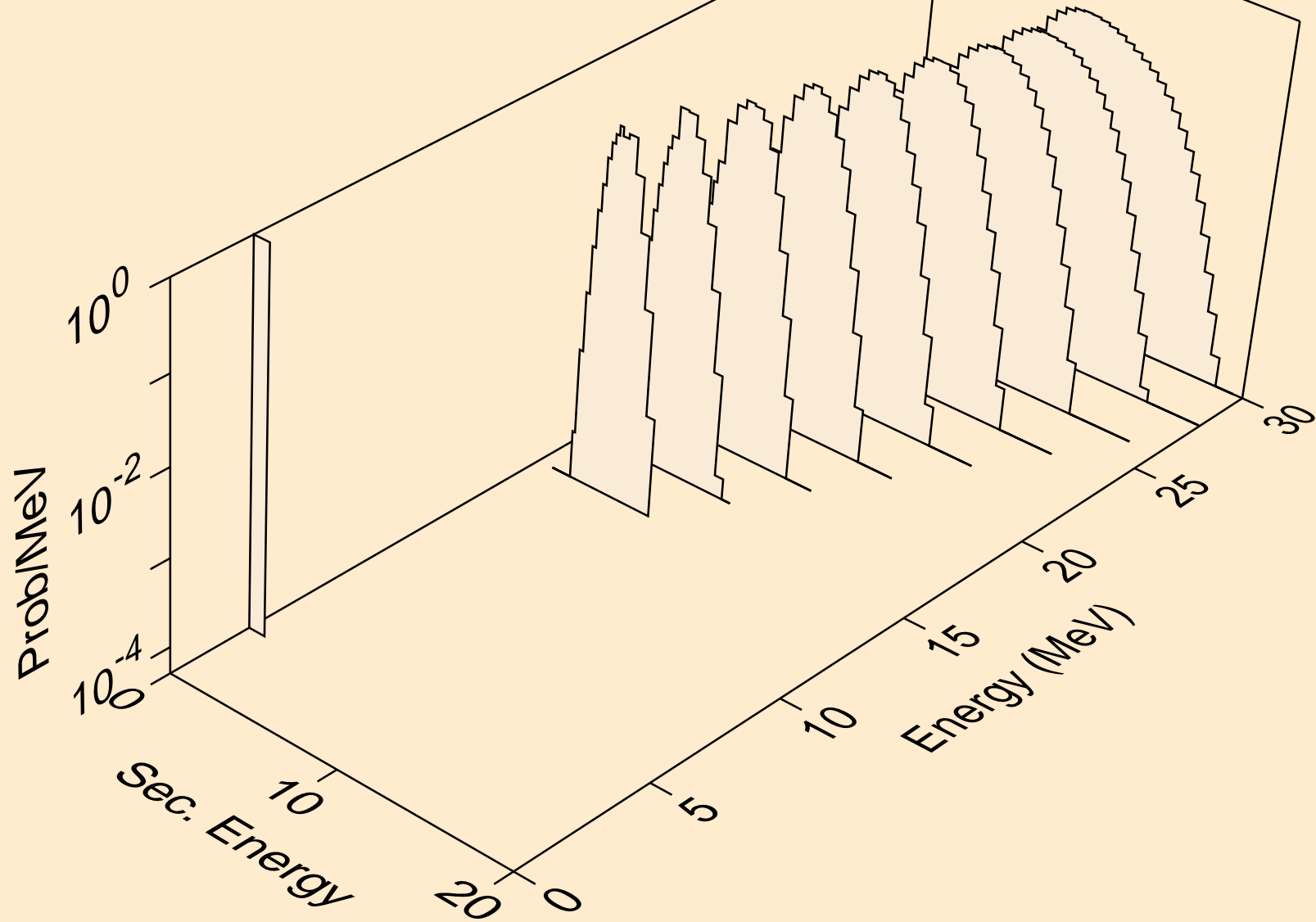
ND137M NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
deuterons from (n,d)



ND137M NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
deuterons from (n,pd)

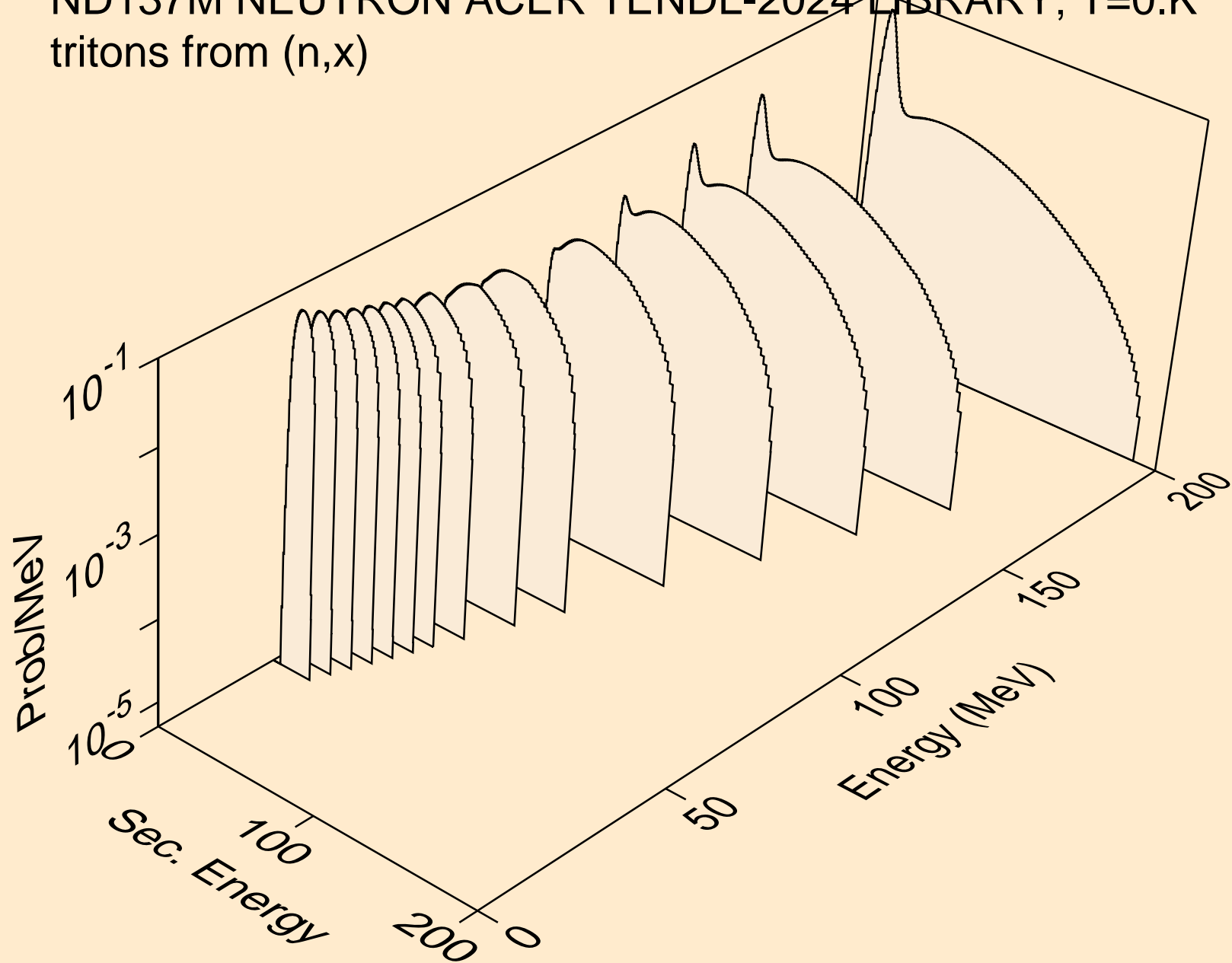


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deuterons from (n,da)

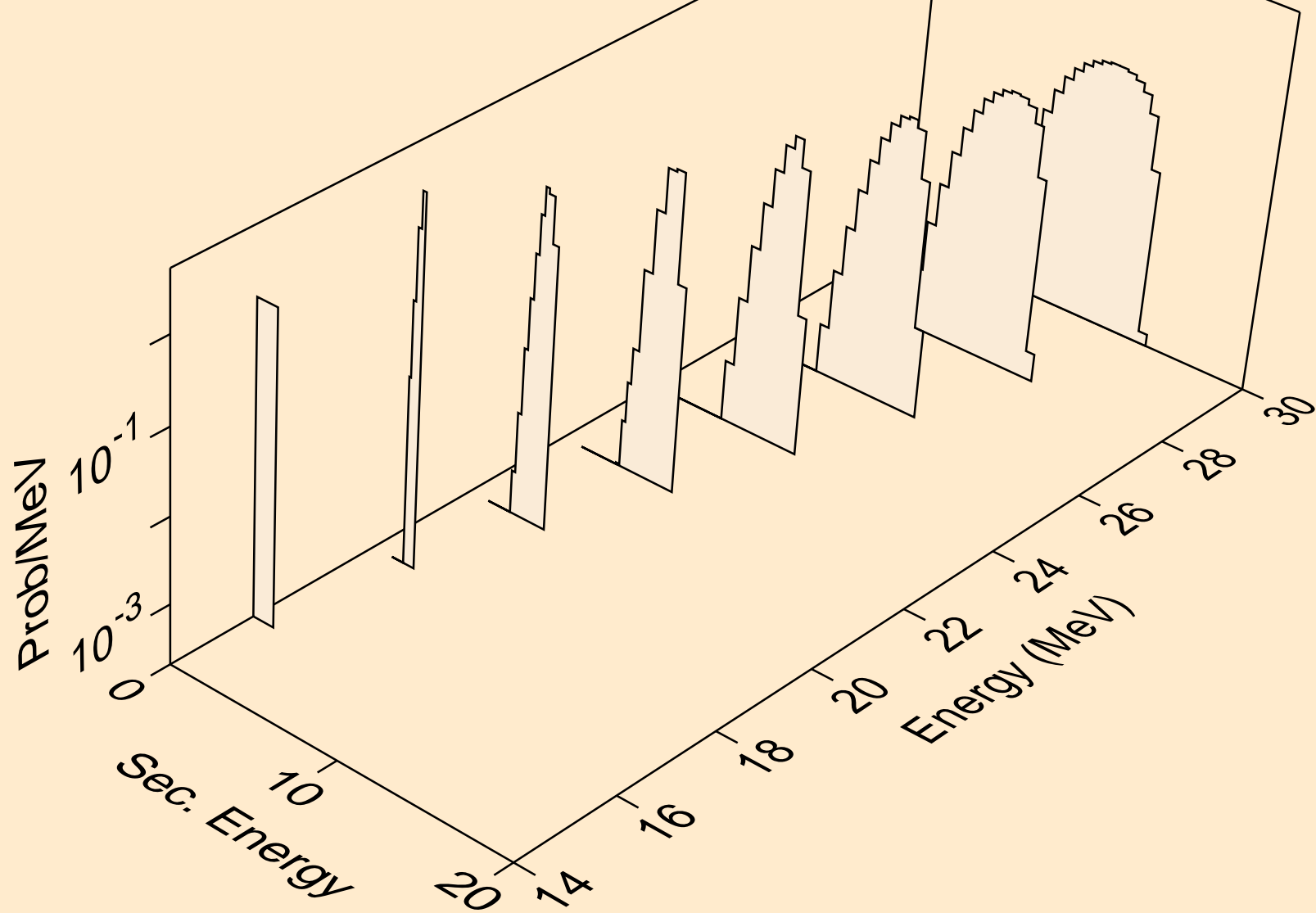




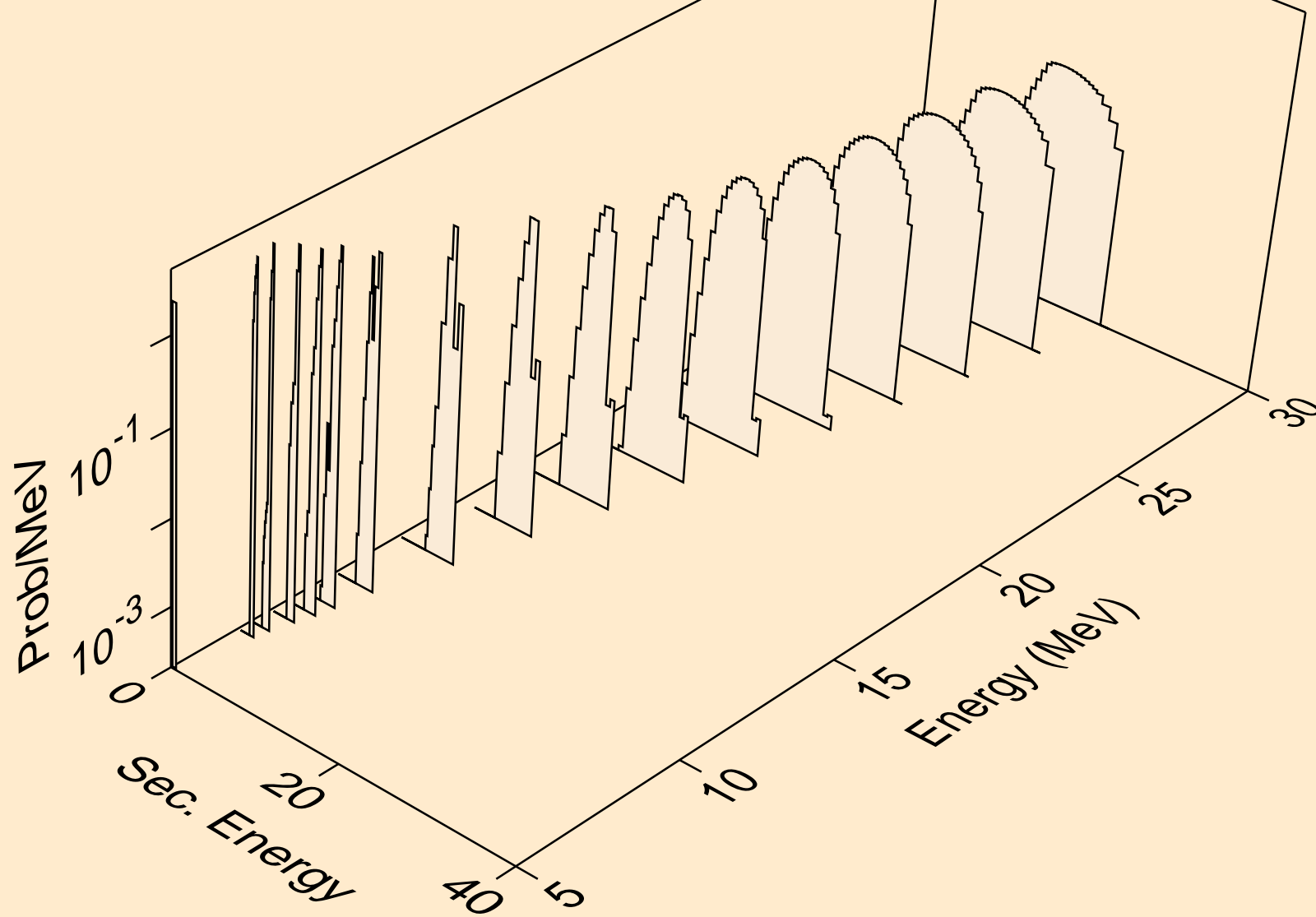
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tritons from (n,x)



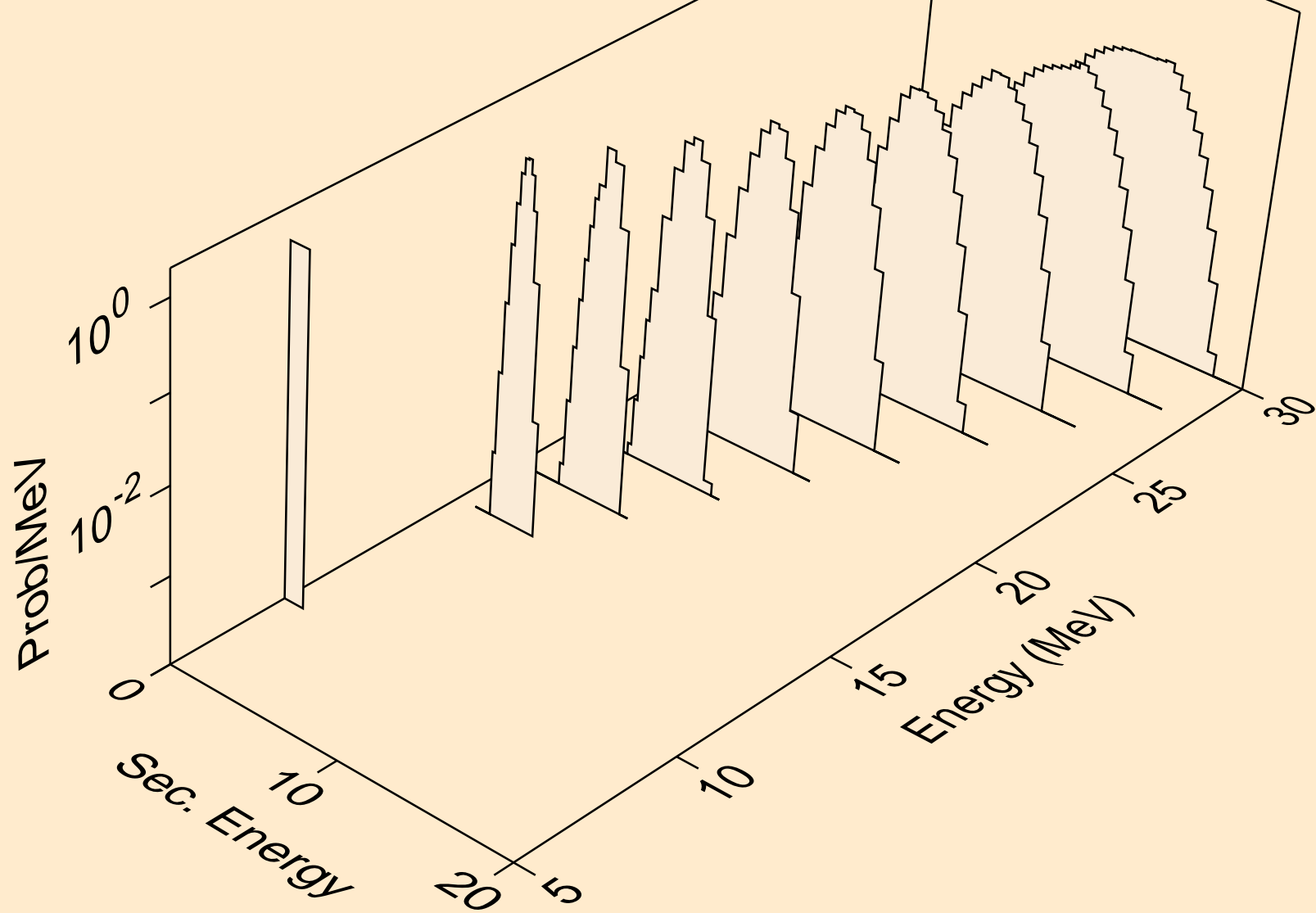
ND137M NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
tritons from (n,n\*)t



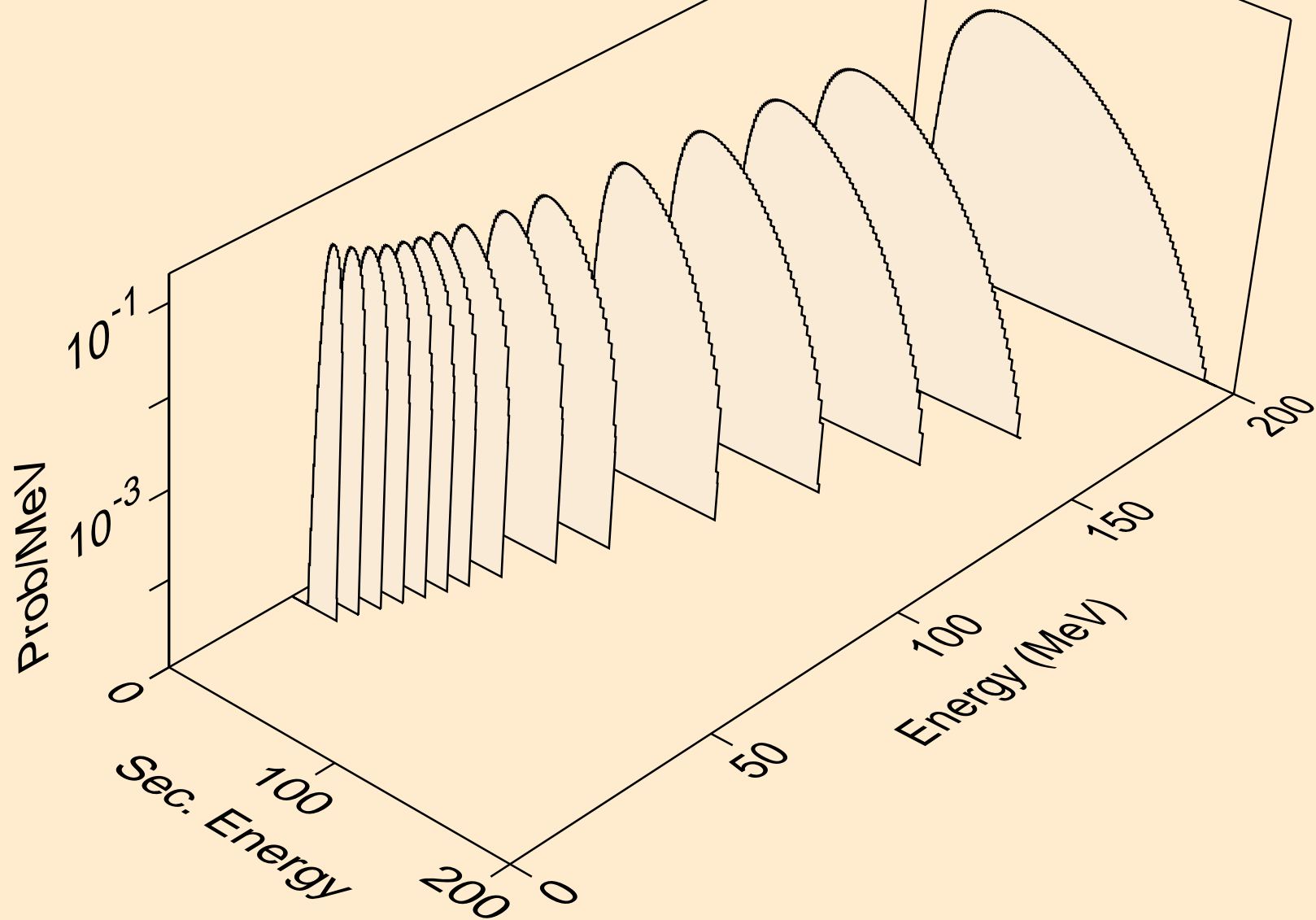
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tritons from (n,t)



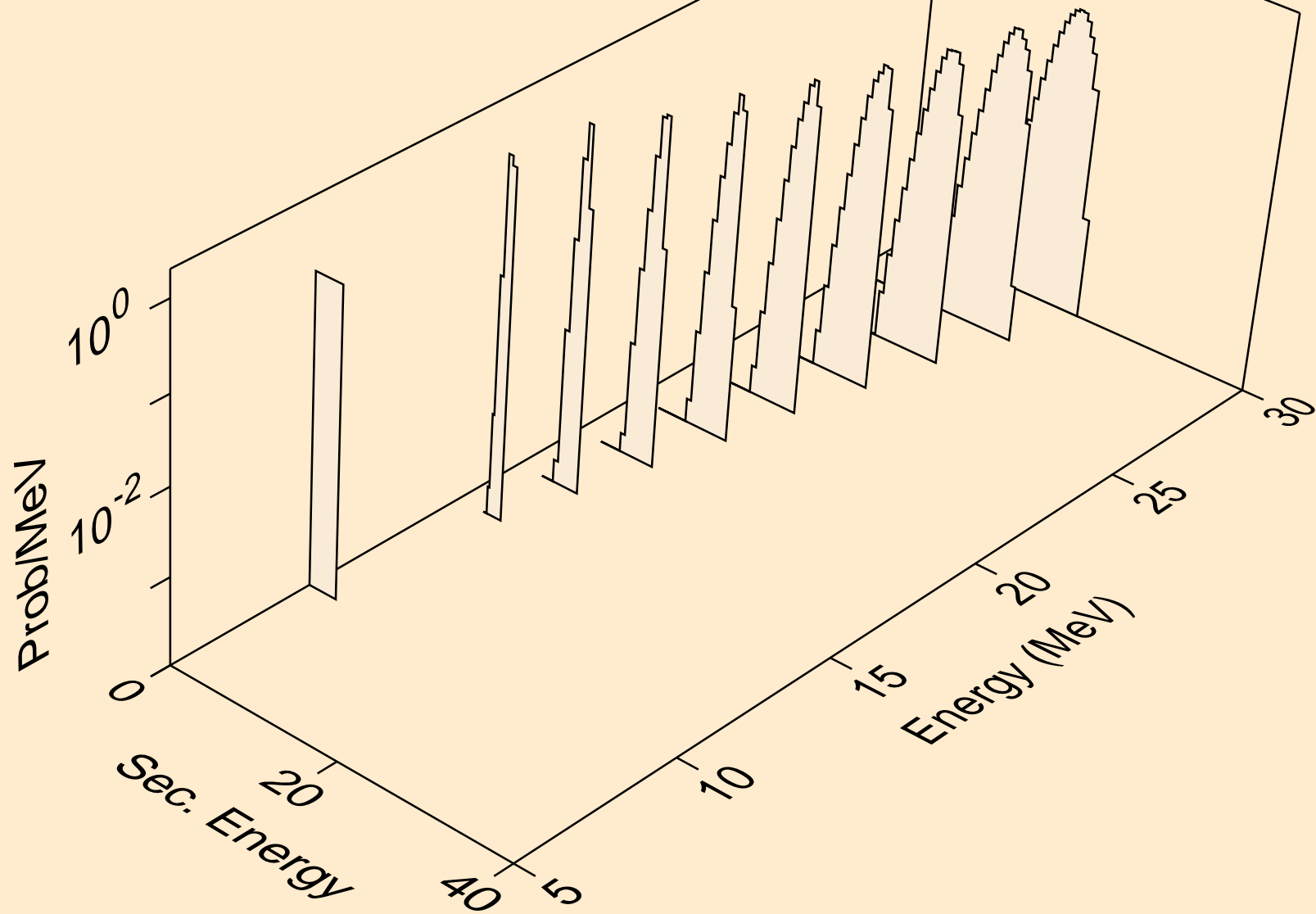
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tritons from (n,pt)



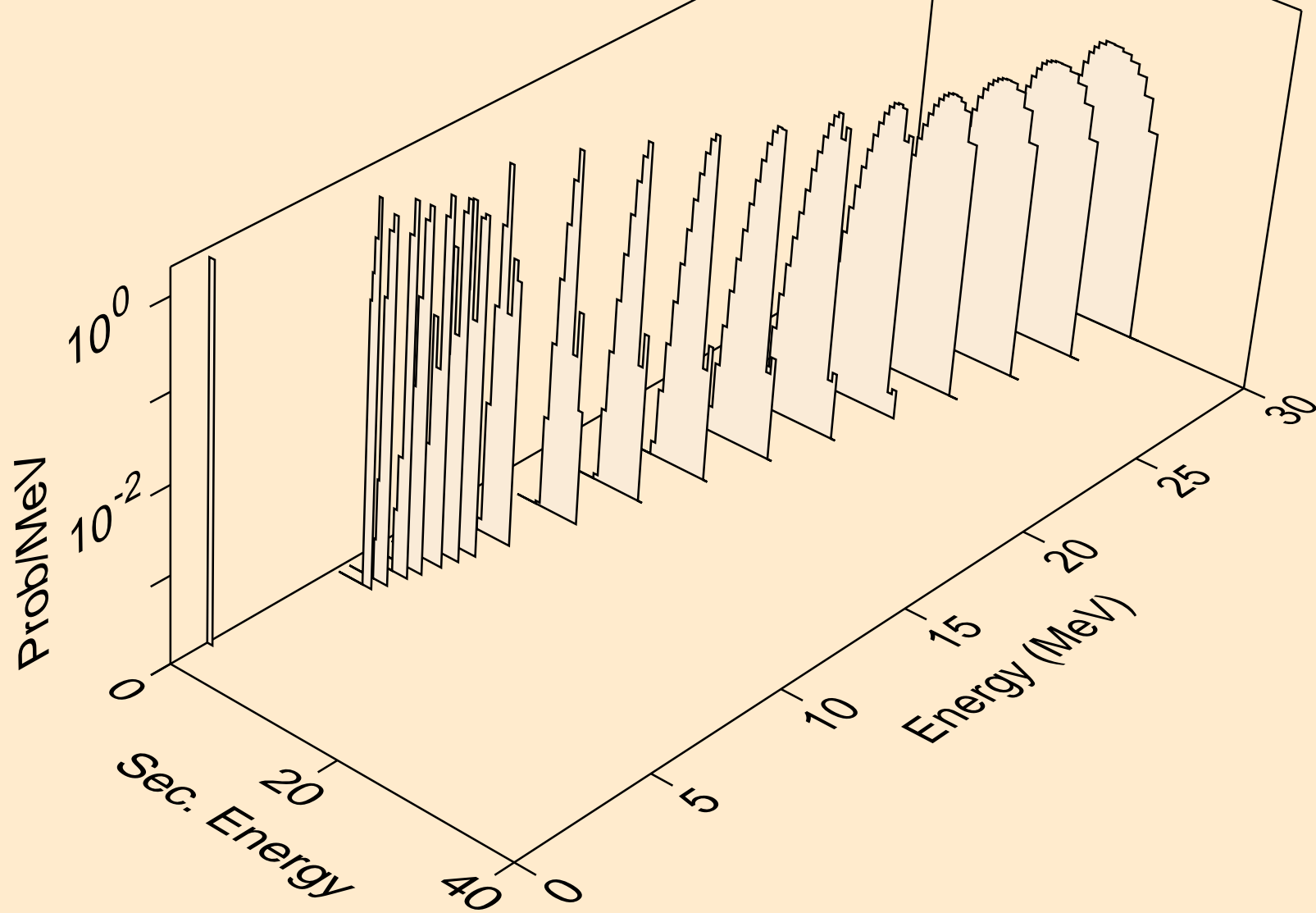
ND137M NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
he3s from (n,x)



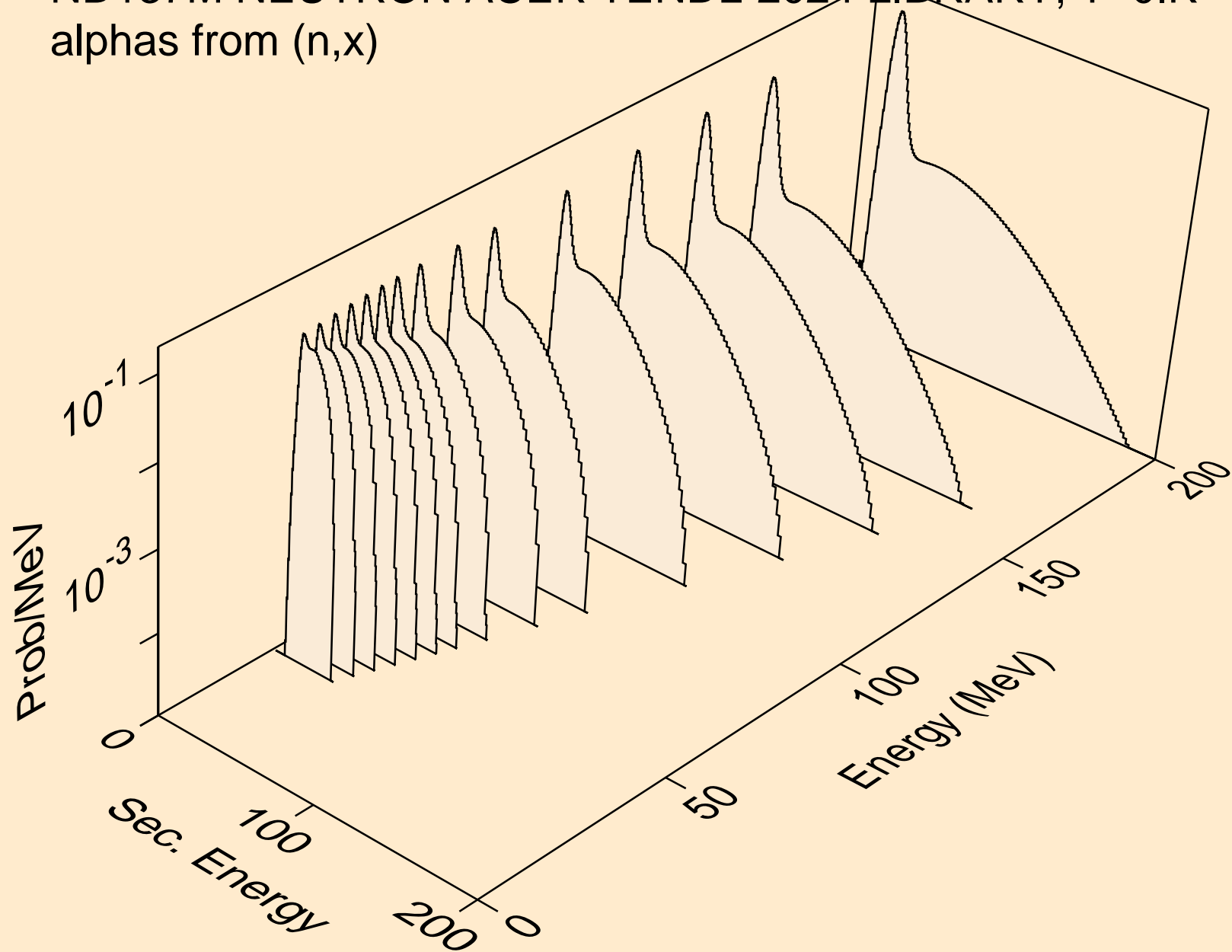
ND137M NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
he3s from (n,n\*)he3



ND137M NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
he3s from (n,he3)

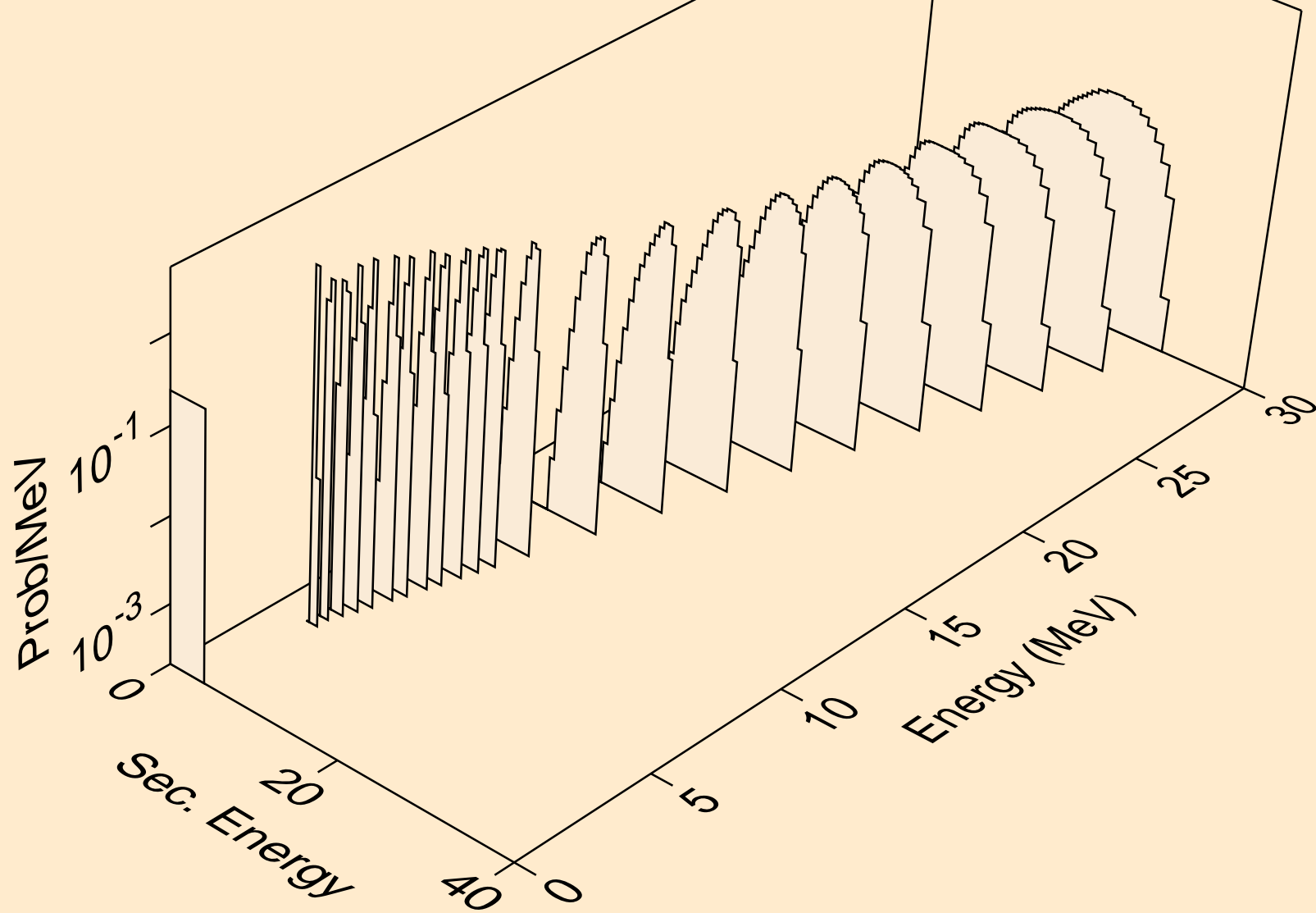


ND137M NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
alphas from (n,x)

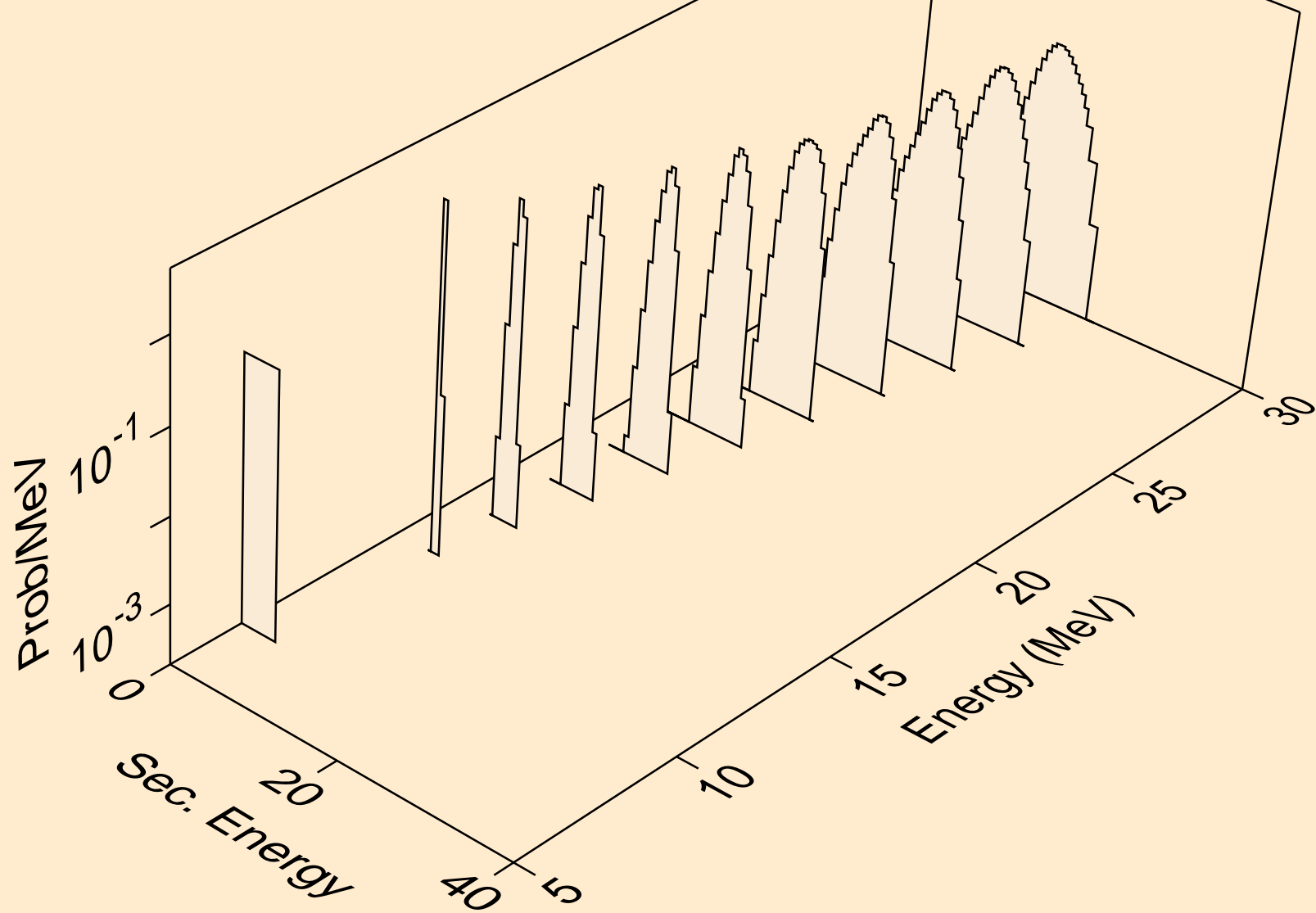




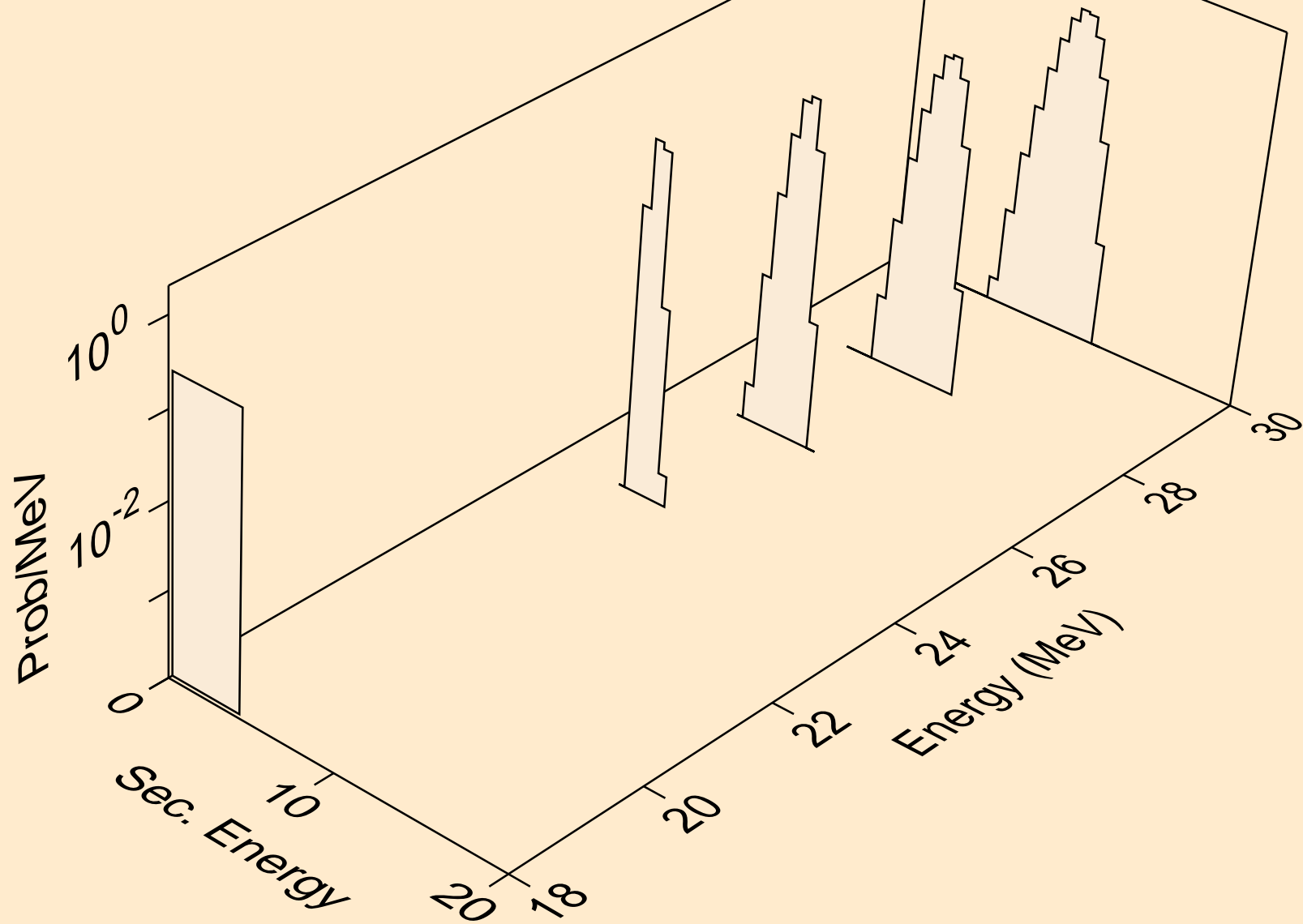
ND137M NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
alphas from (n,n\*)a



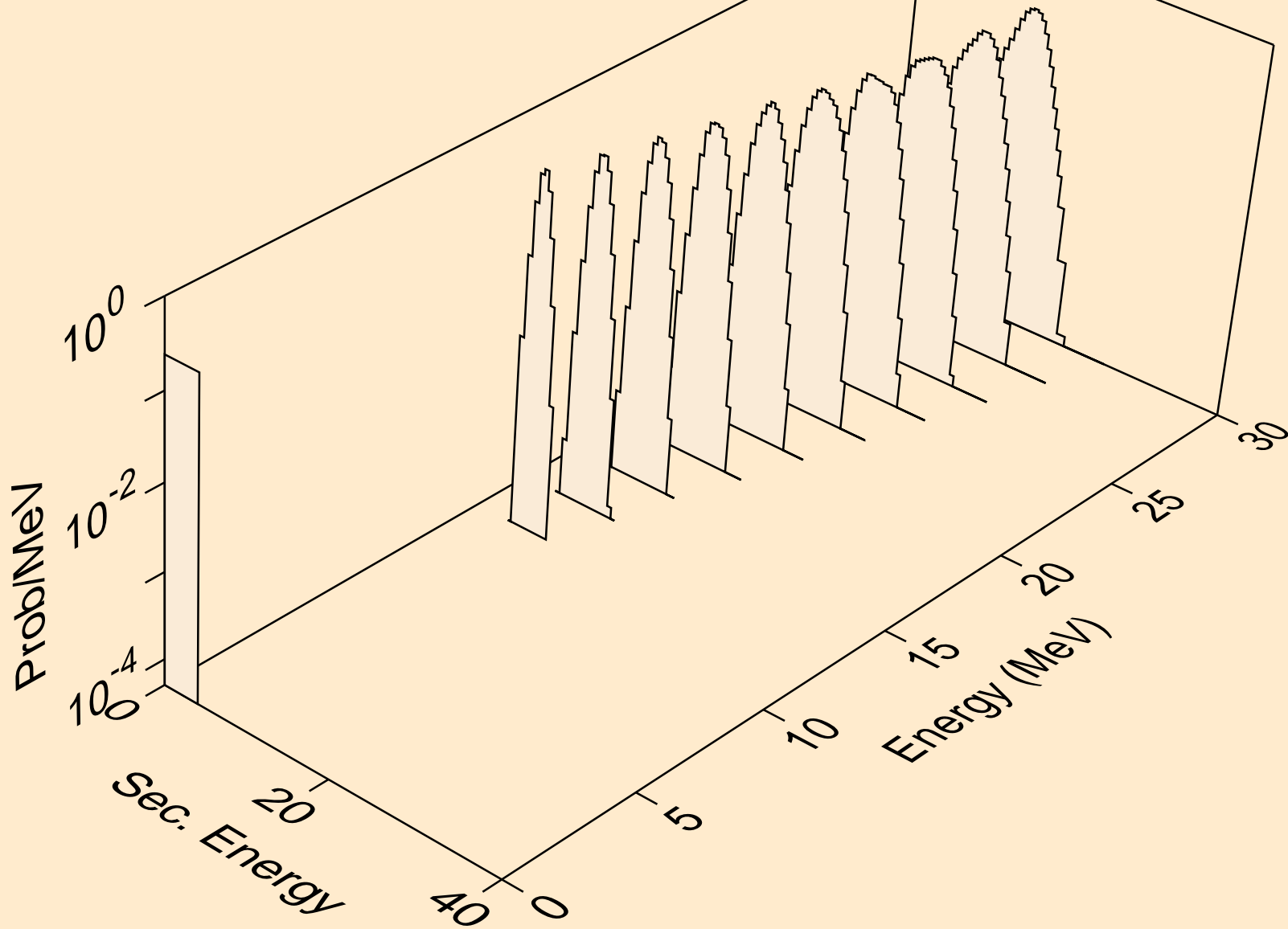
ND137M NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
alphas from (n,2n)a



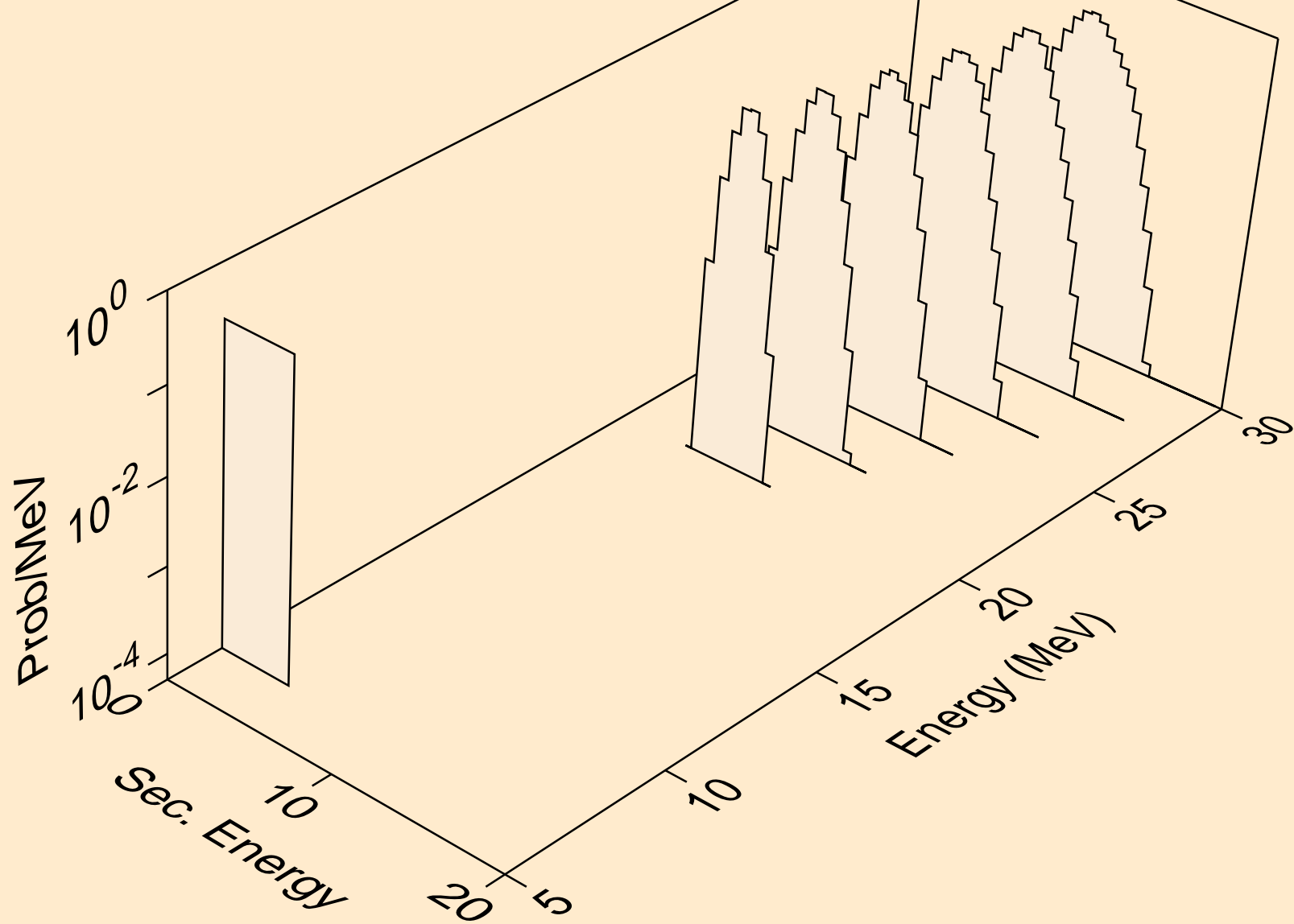
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alphas from (n,3n)a



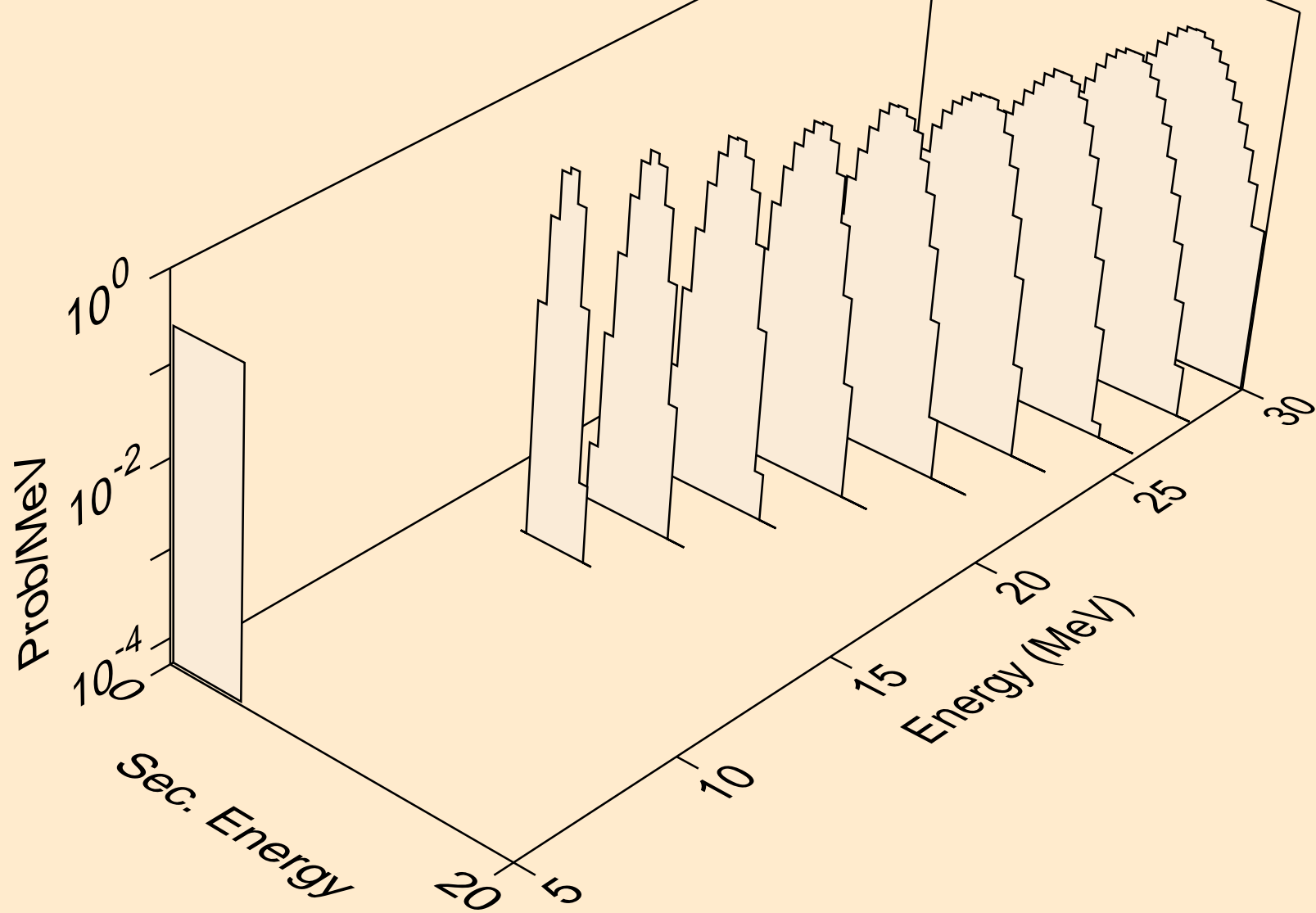
ND137M NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
alphas from (n,n\*)2a



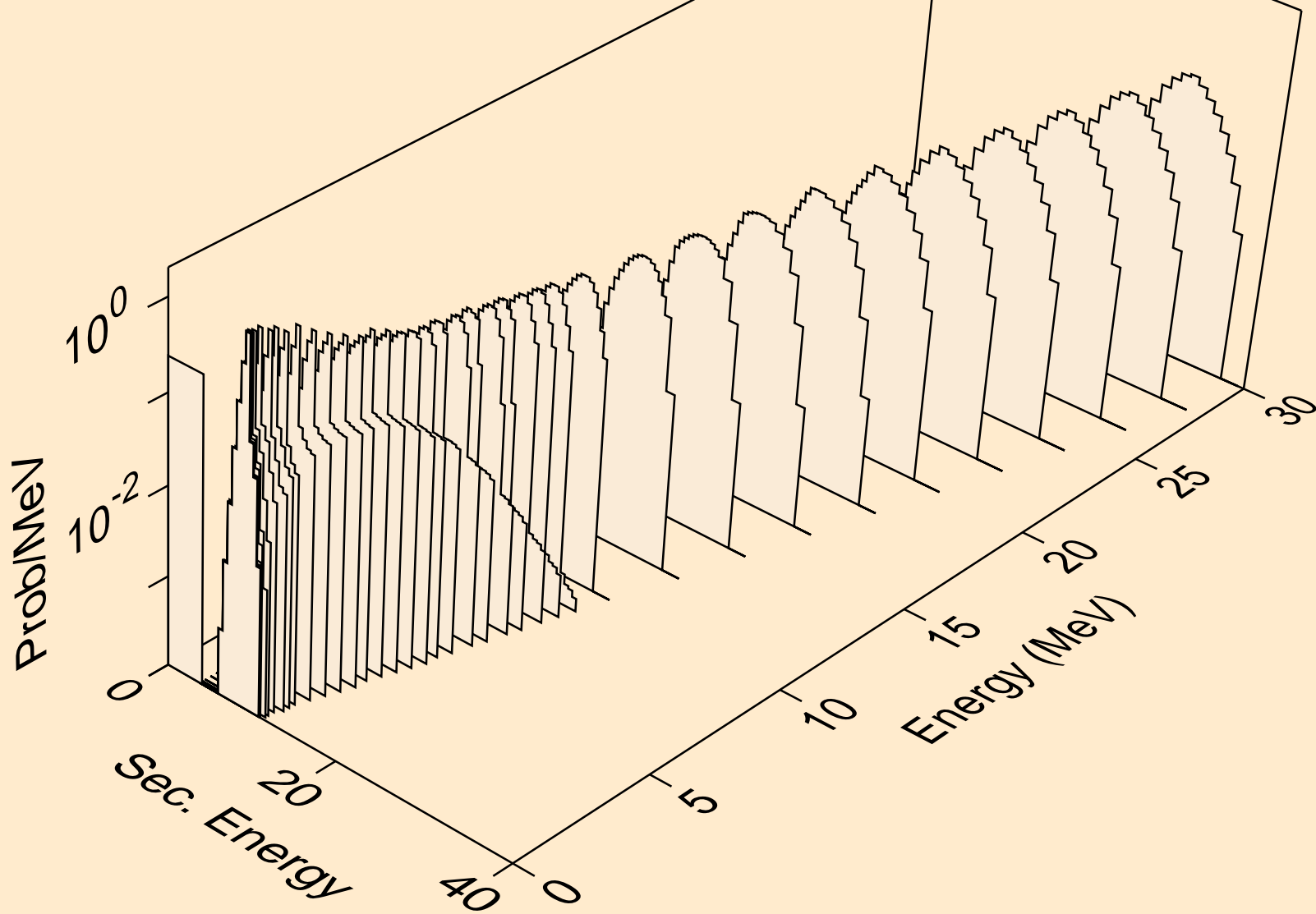
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alphas from (n,2n)2a



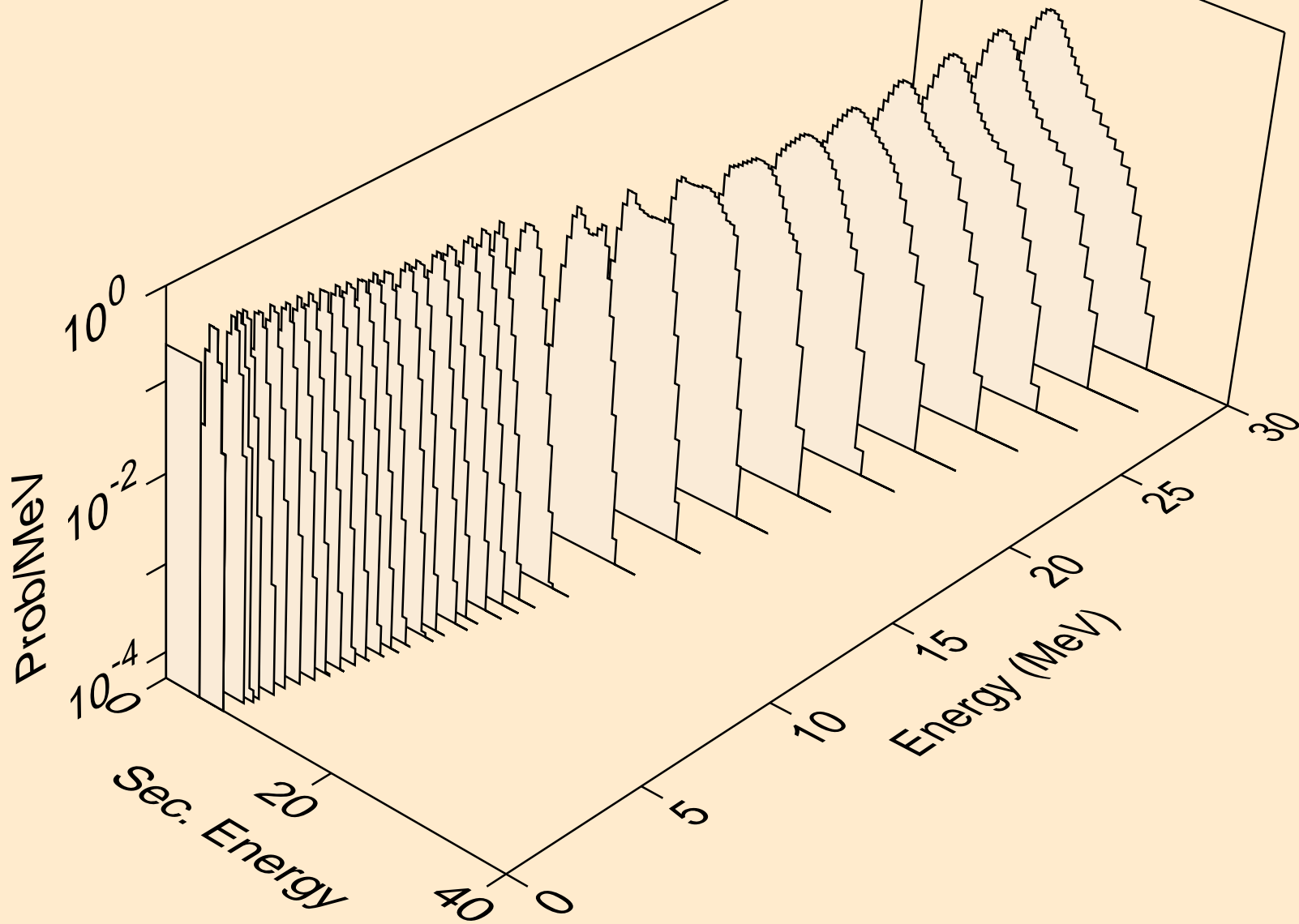
ND137M NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
alphas from (n,npa)



ND137M NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
alphas from (n,a)

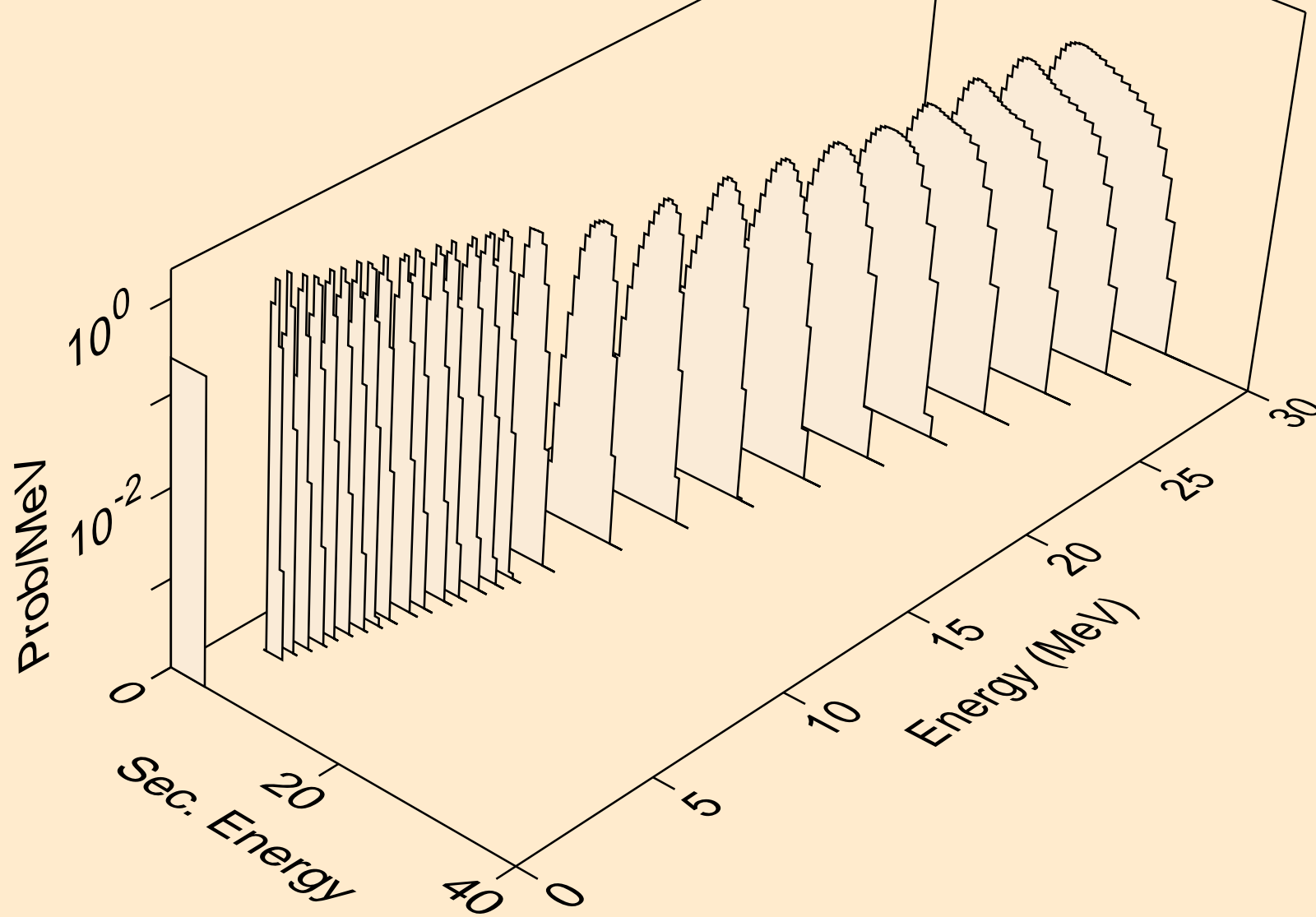


ND137M NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
alphas from (n,2a)





ND137M NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
alphas from (n,pa)



ND137M NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
alphas from (n,da)

