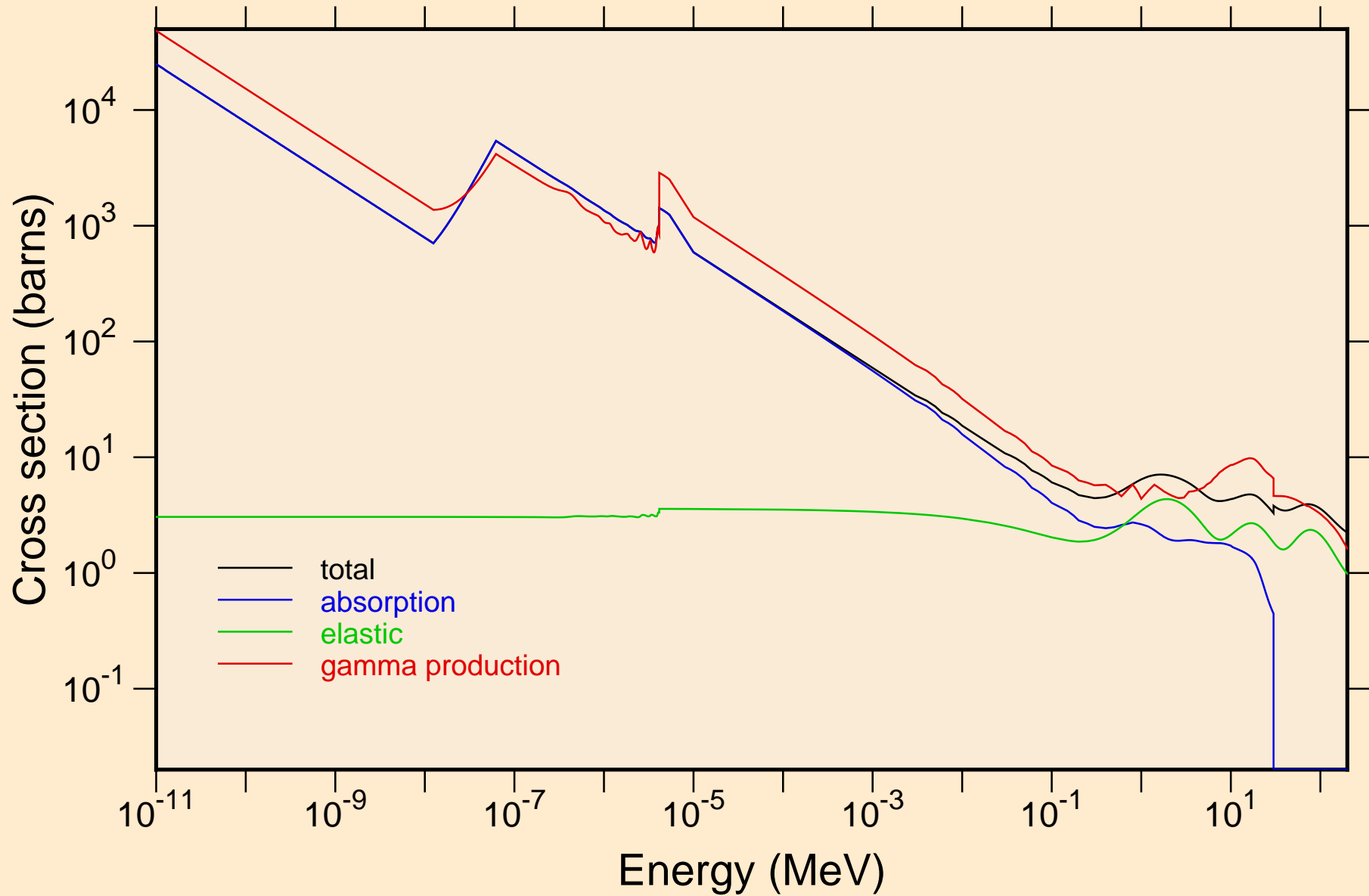


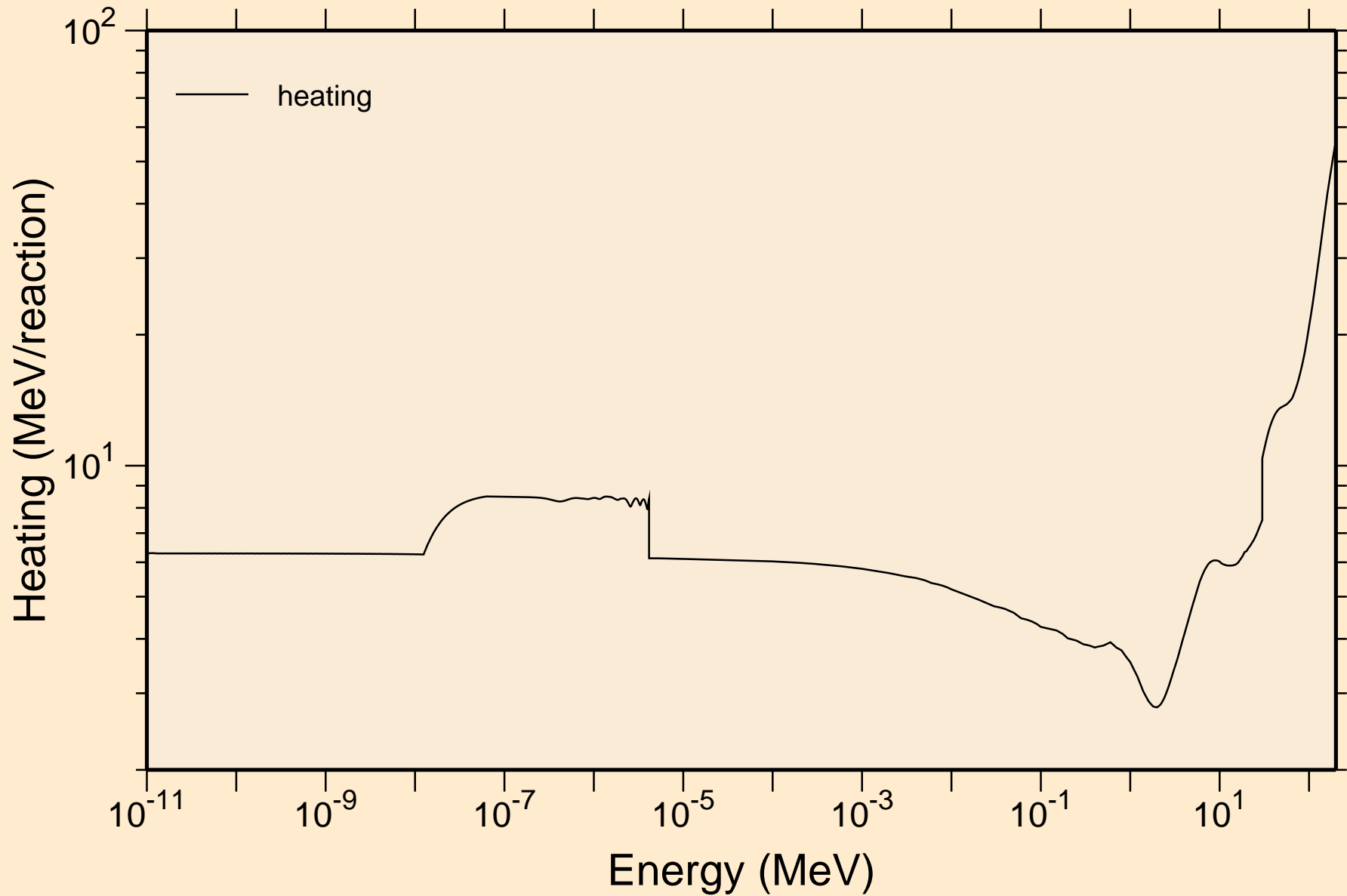
# GD137 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

## Principal cross sections



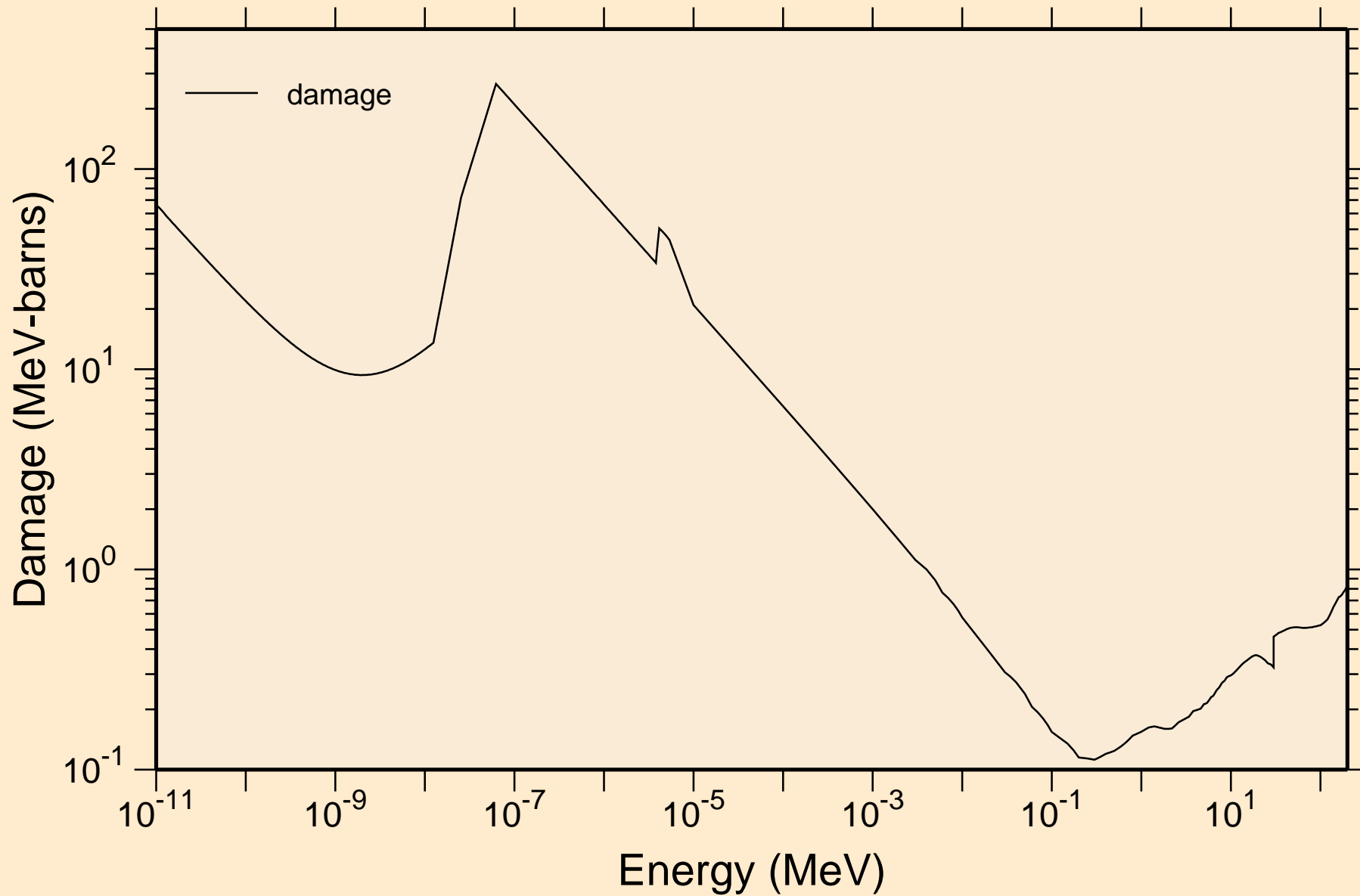
# GD137 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

## Heating



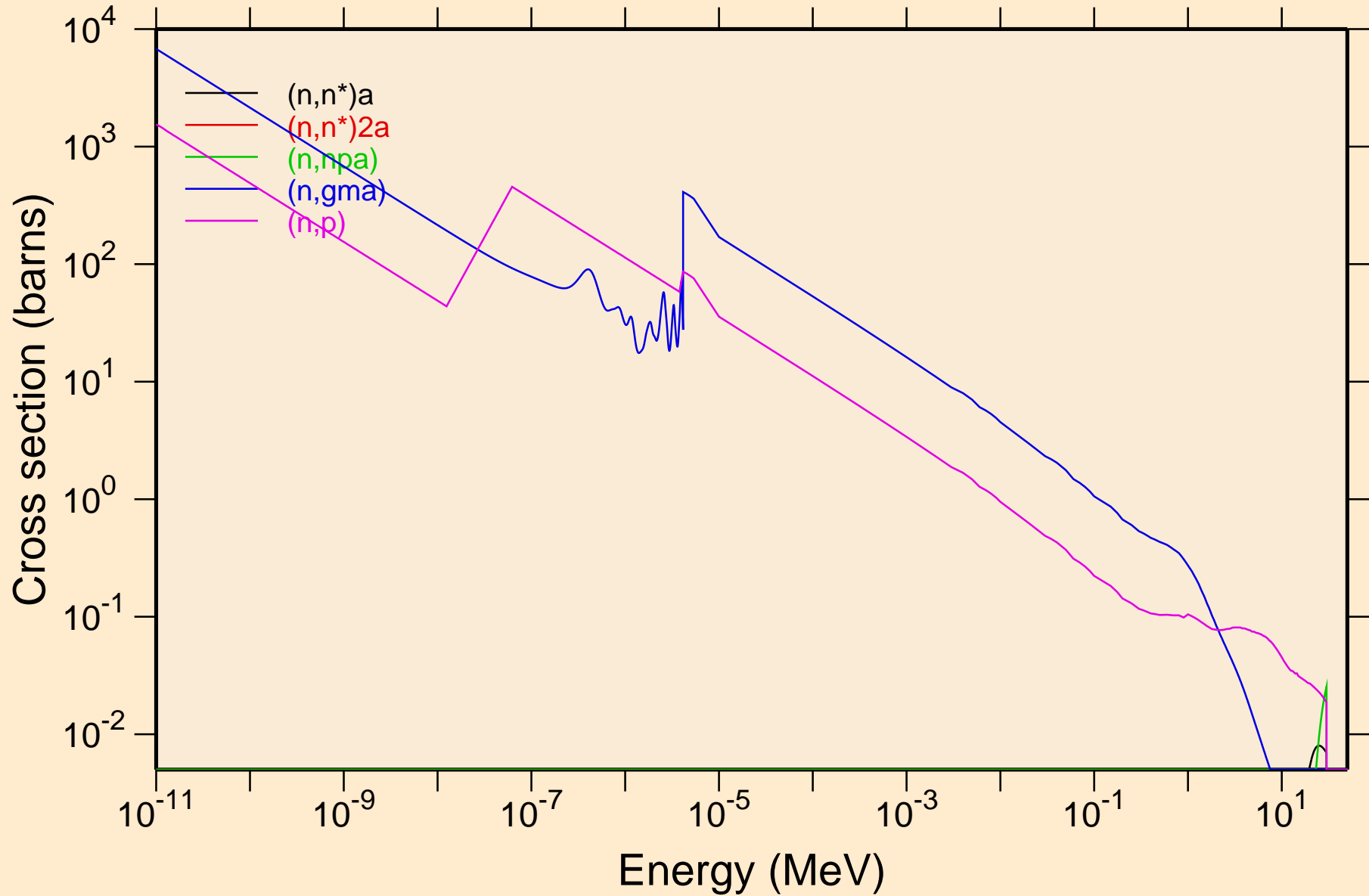
# GD137 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

## Damage



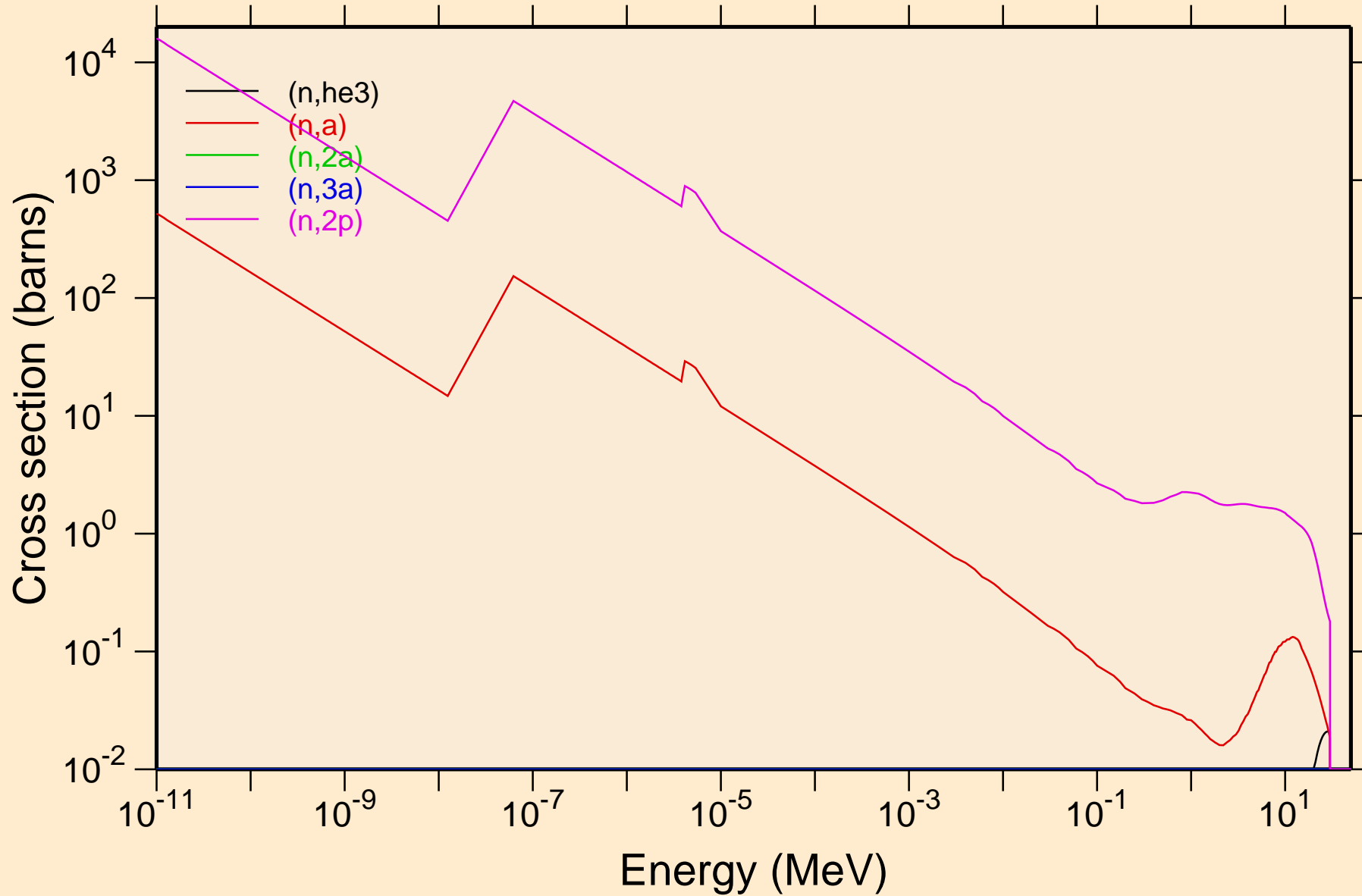
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## Non-threshold reactions



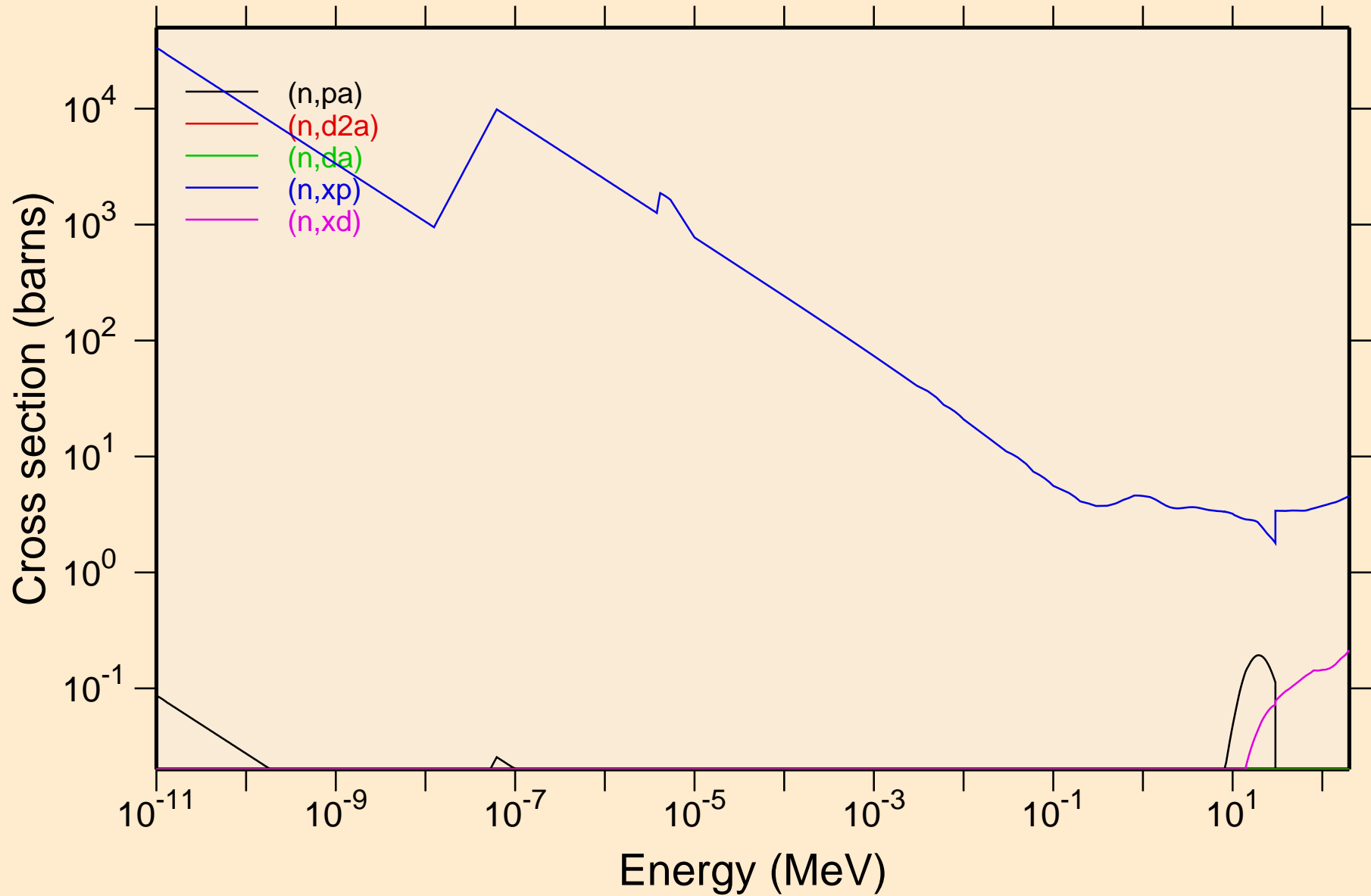
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## Non-threshold reactions

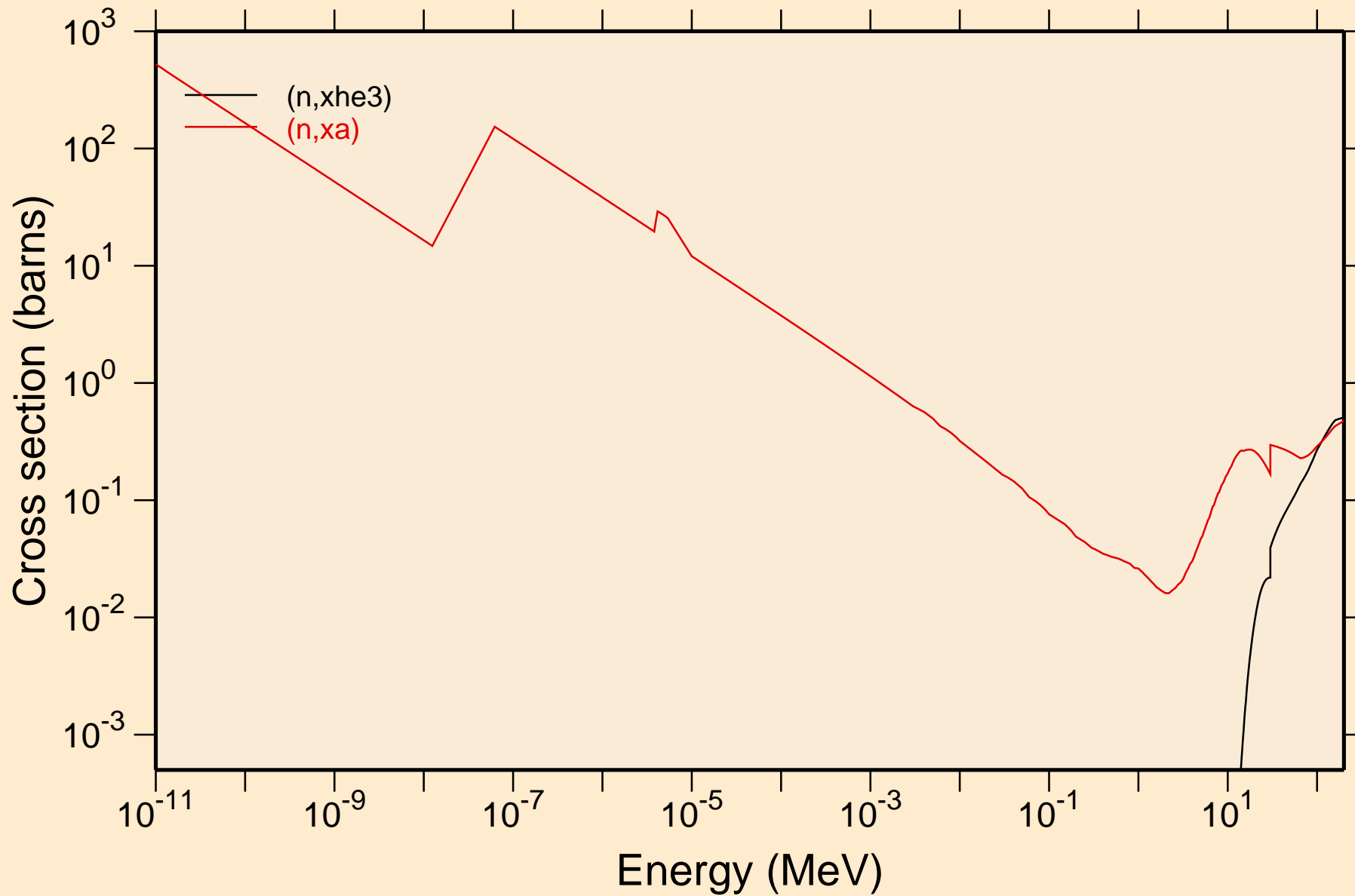


# GD137 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

## Non-threshold reactions

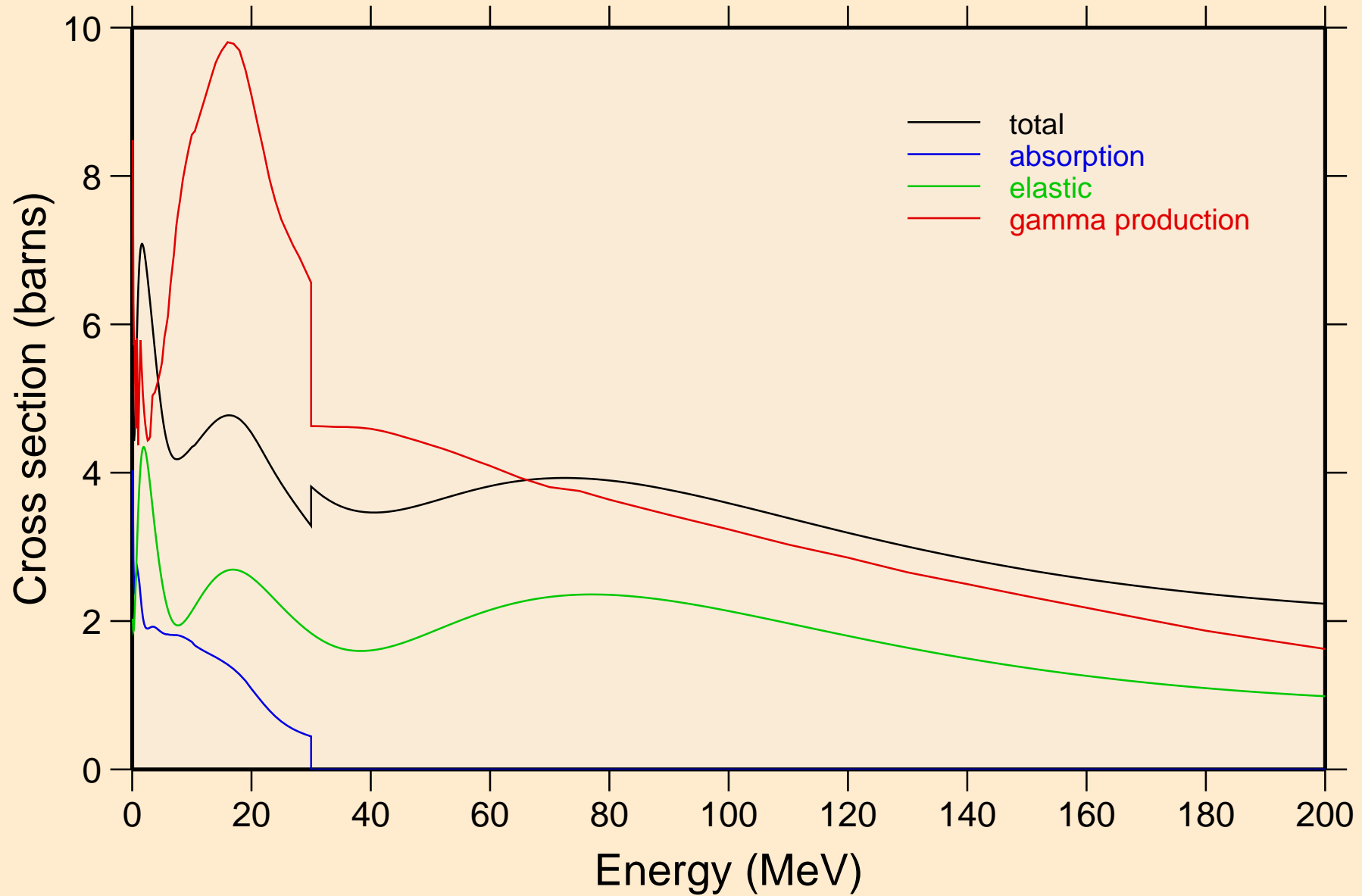


GD137 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Non-threshold reactions



# GD137 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

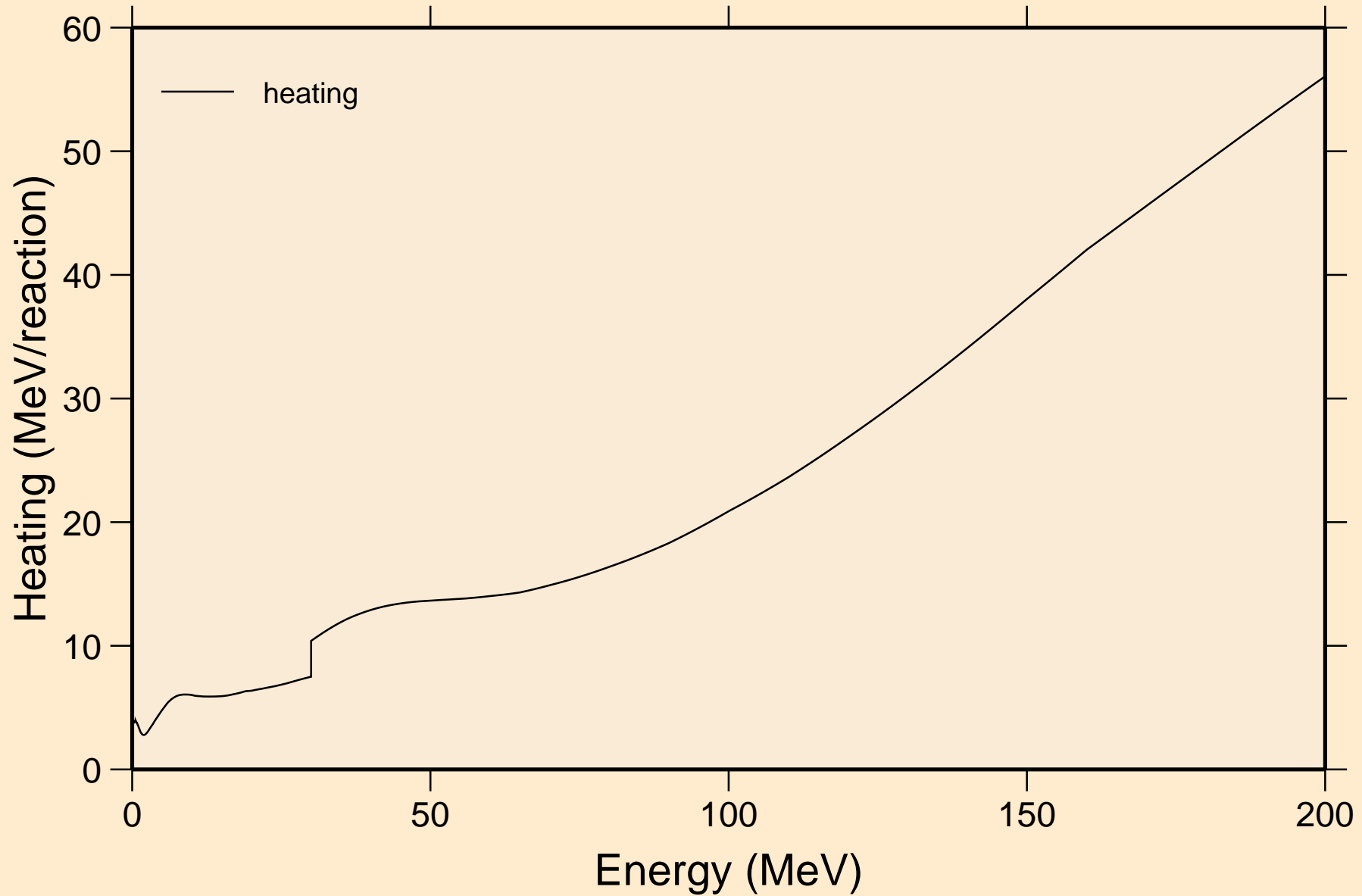
## Principal cross sections





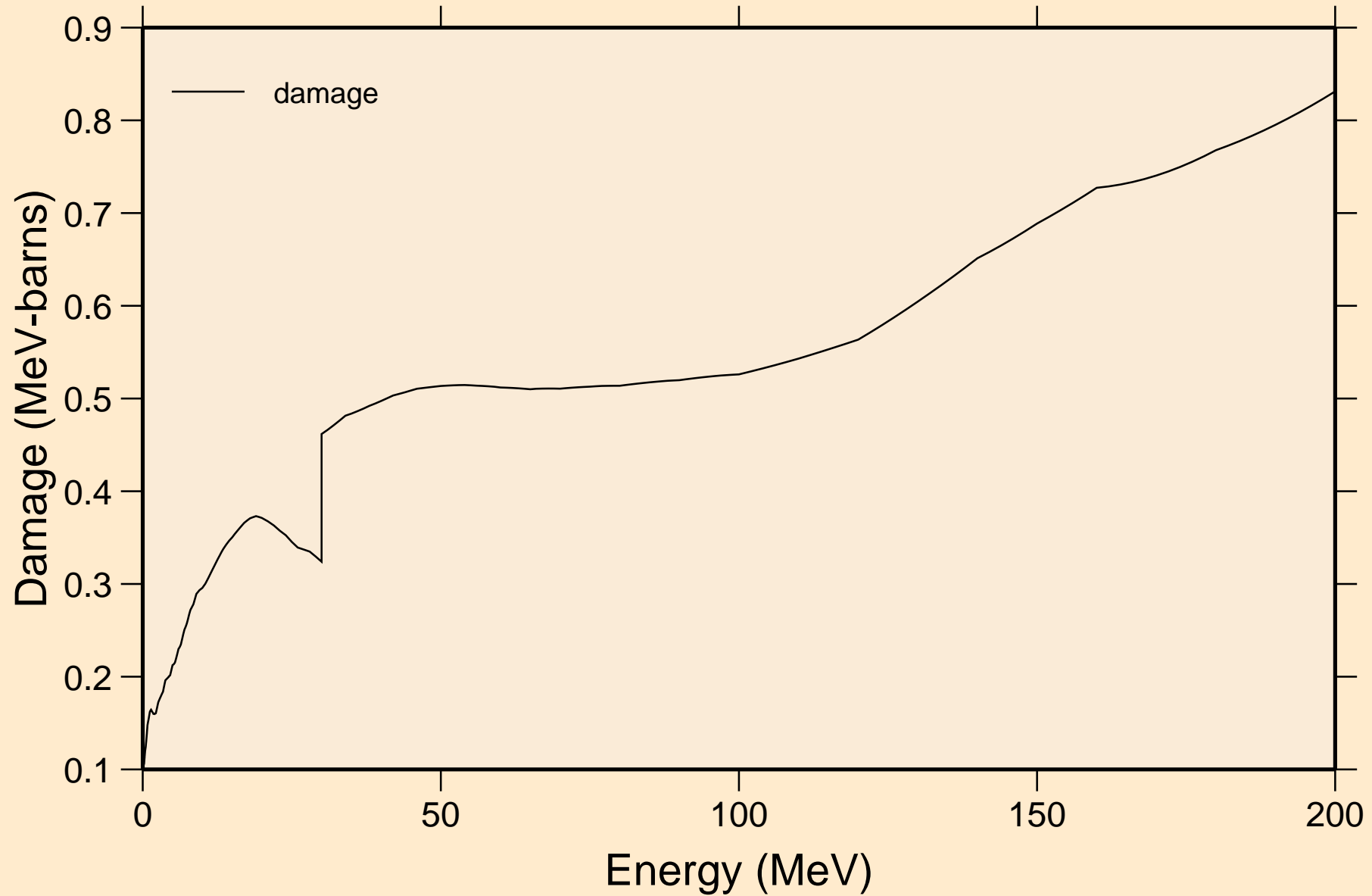
# GD137 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

## Heating



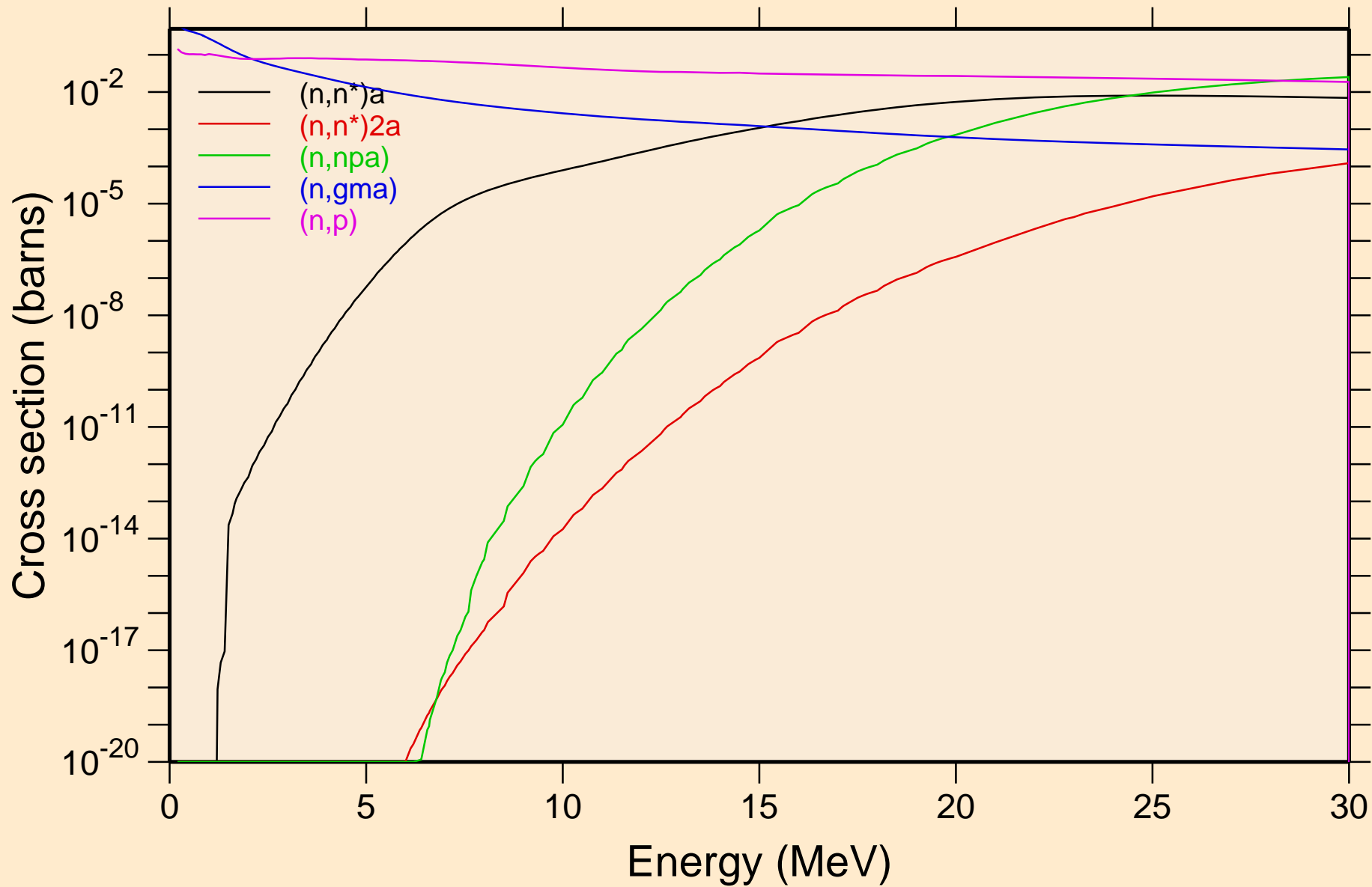
# GD137 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

## Damage



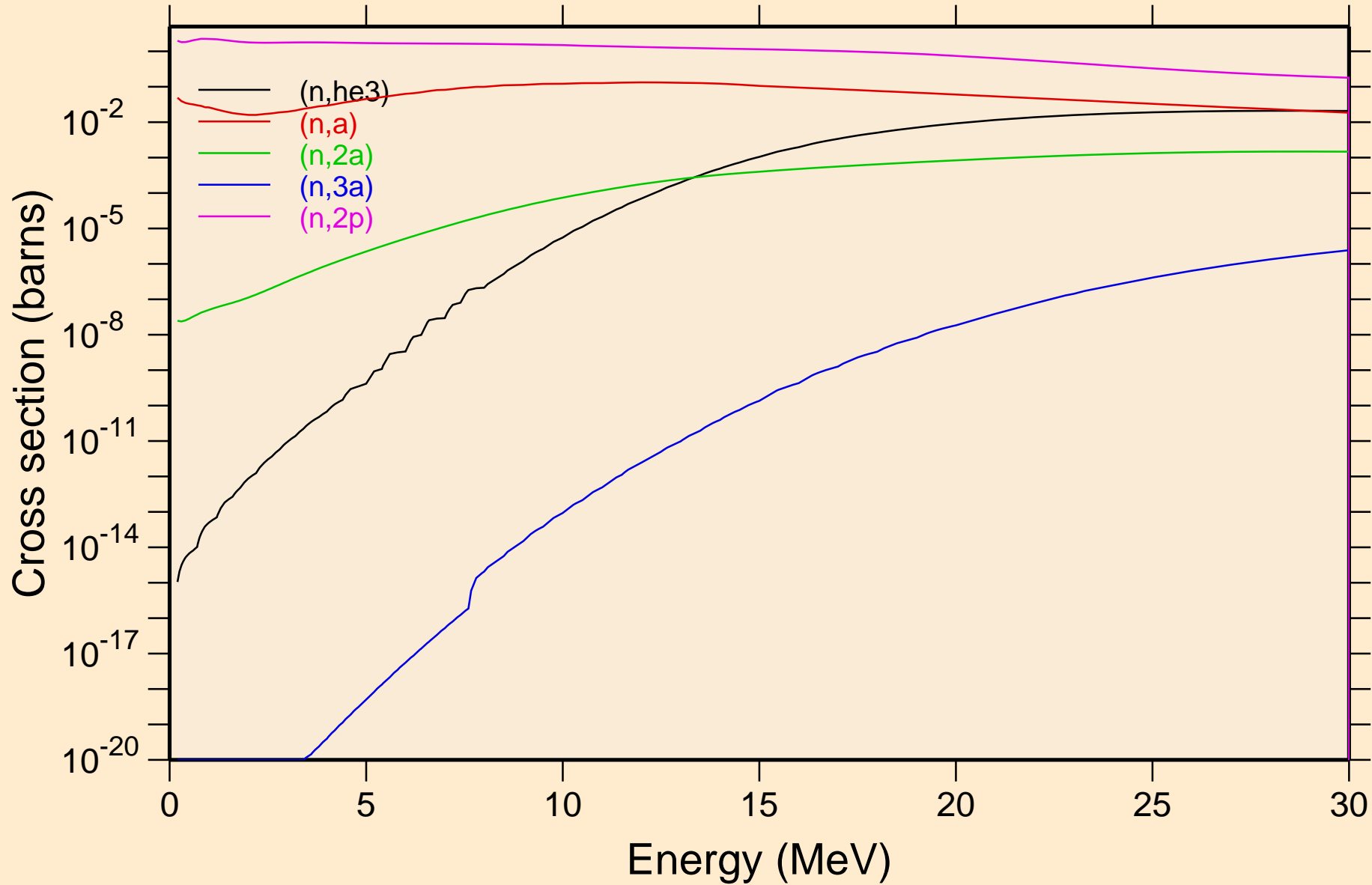
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## Non-threshold reactions



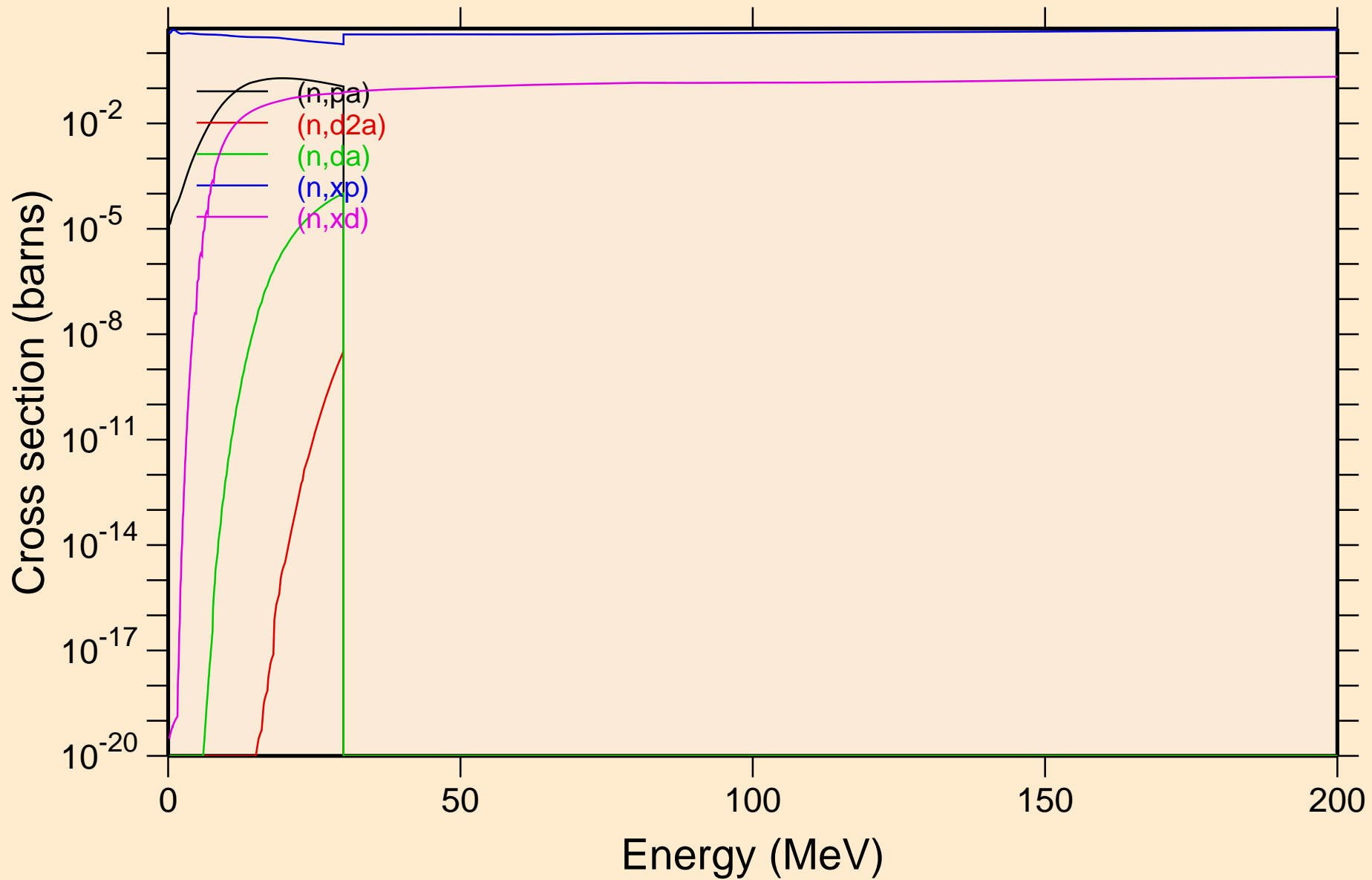
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## Non-threshold reactions

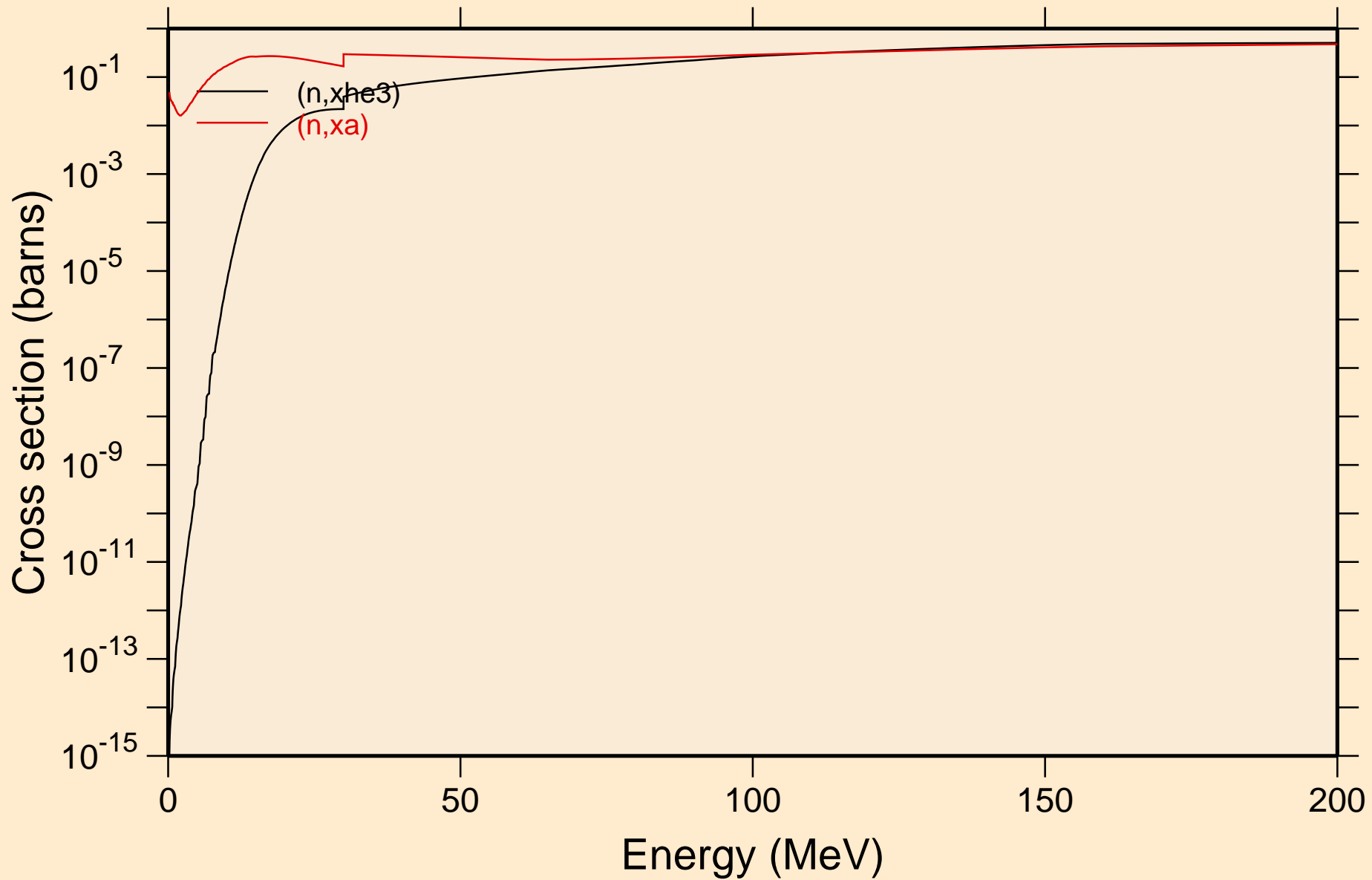


# GD137 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

## Non-threshold reactions

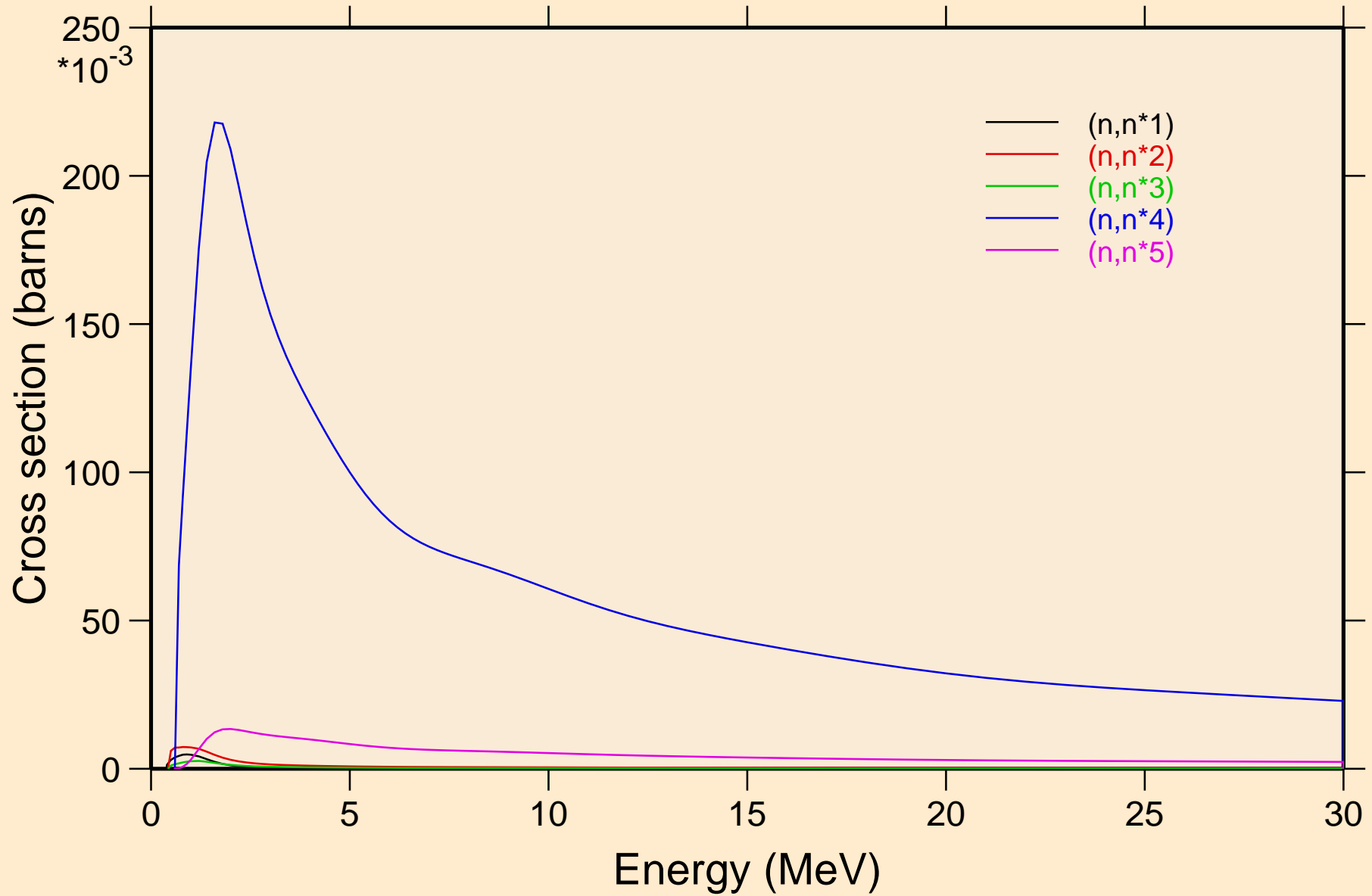


GD137 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Non-threshold reactions

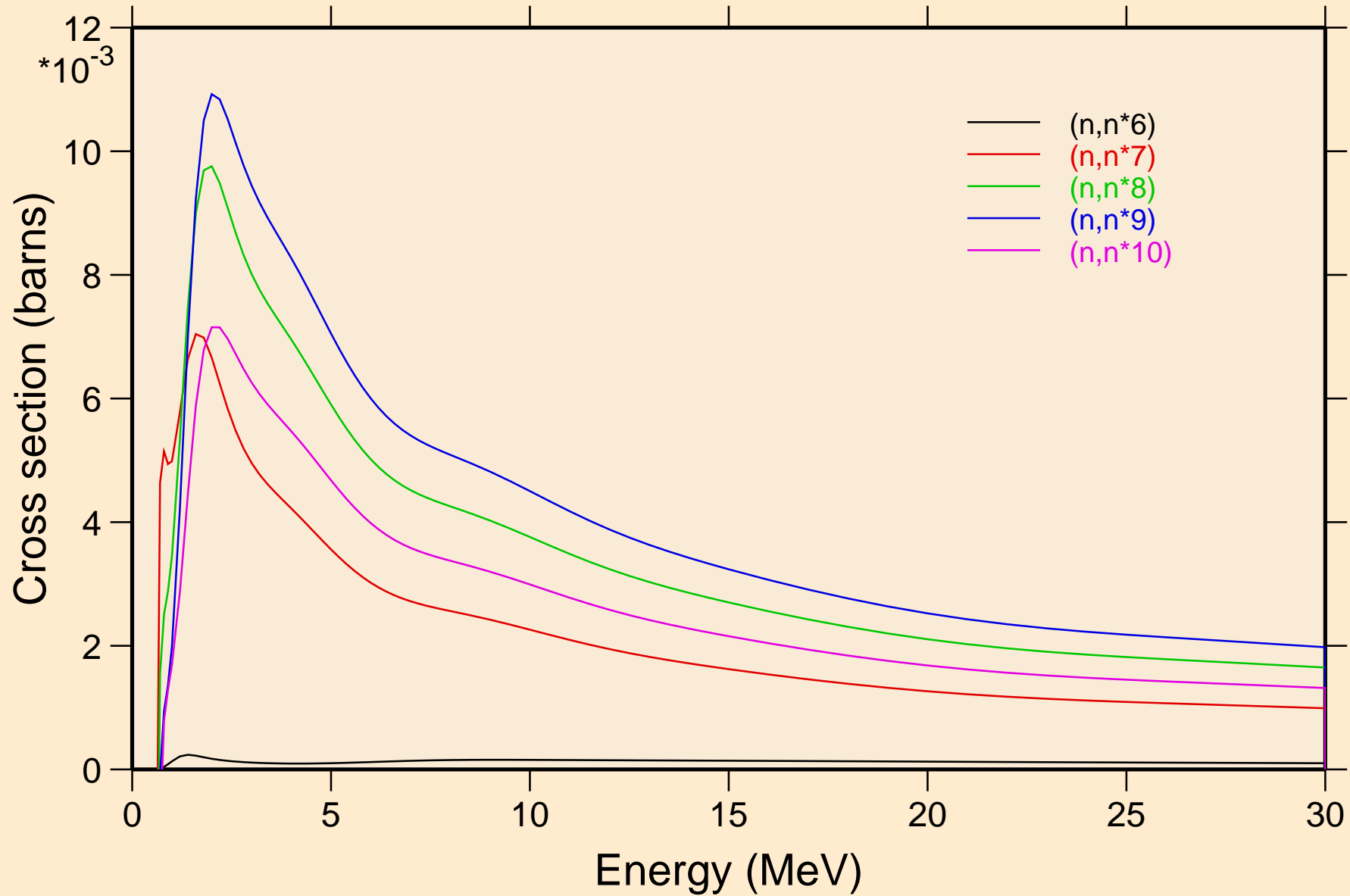


# GD137 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

## Inelastic levels



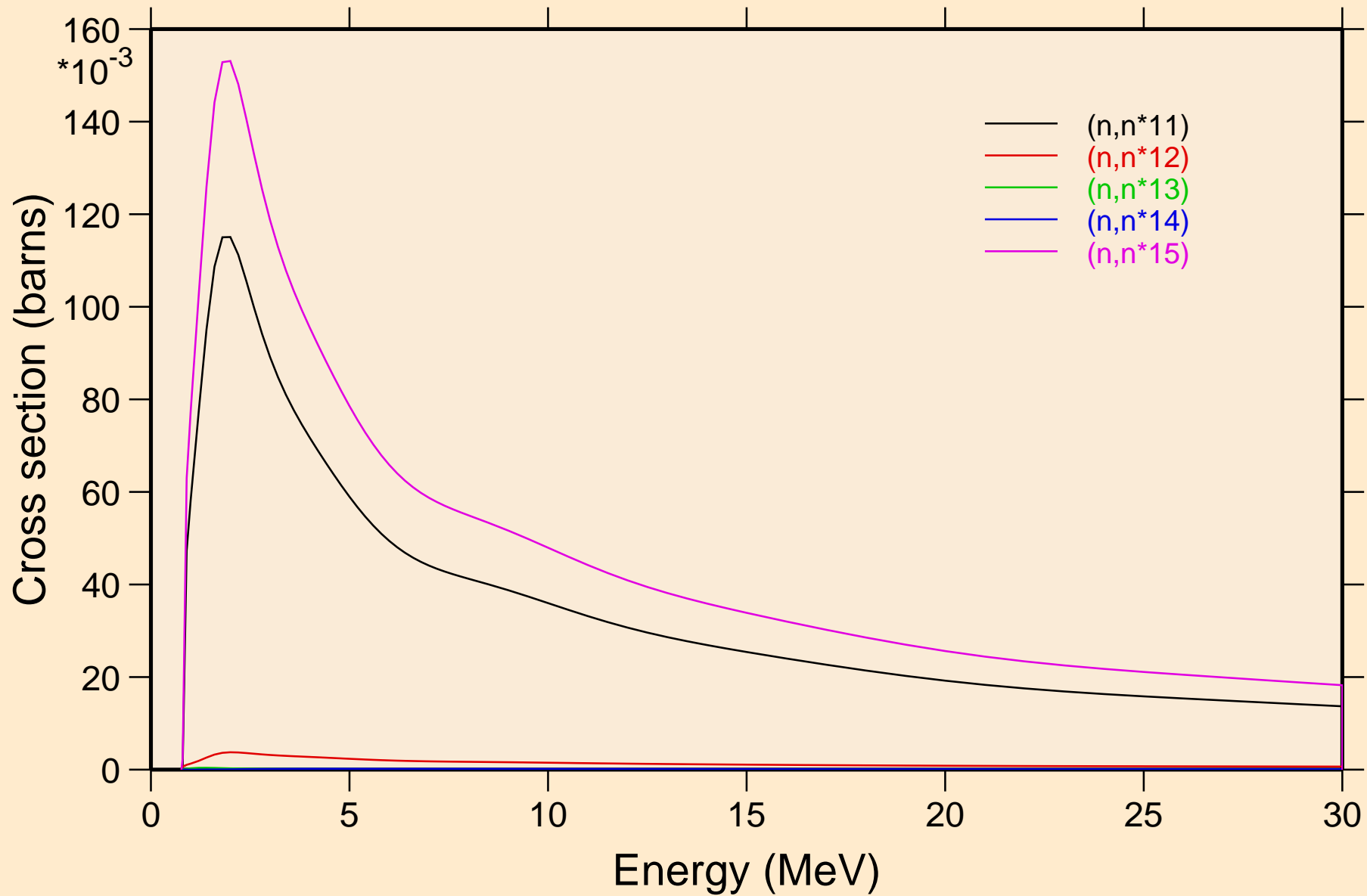
GD137 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Inelastic levels



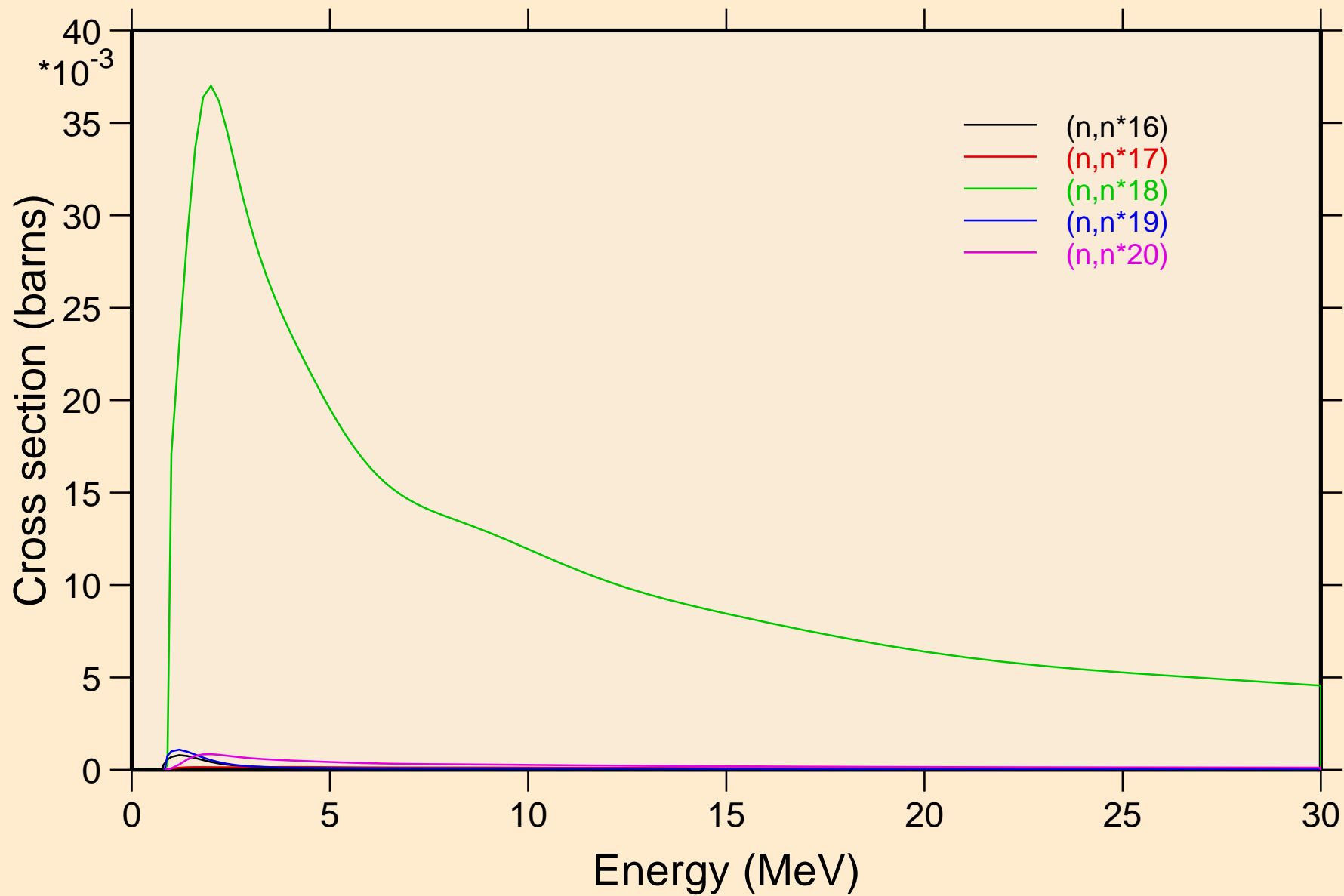


# GD137 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

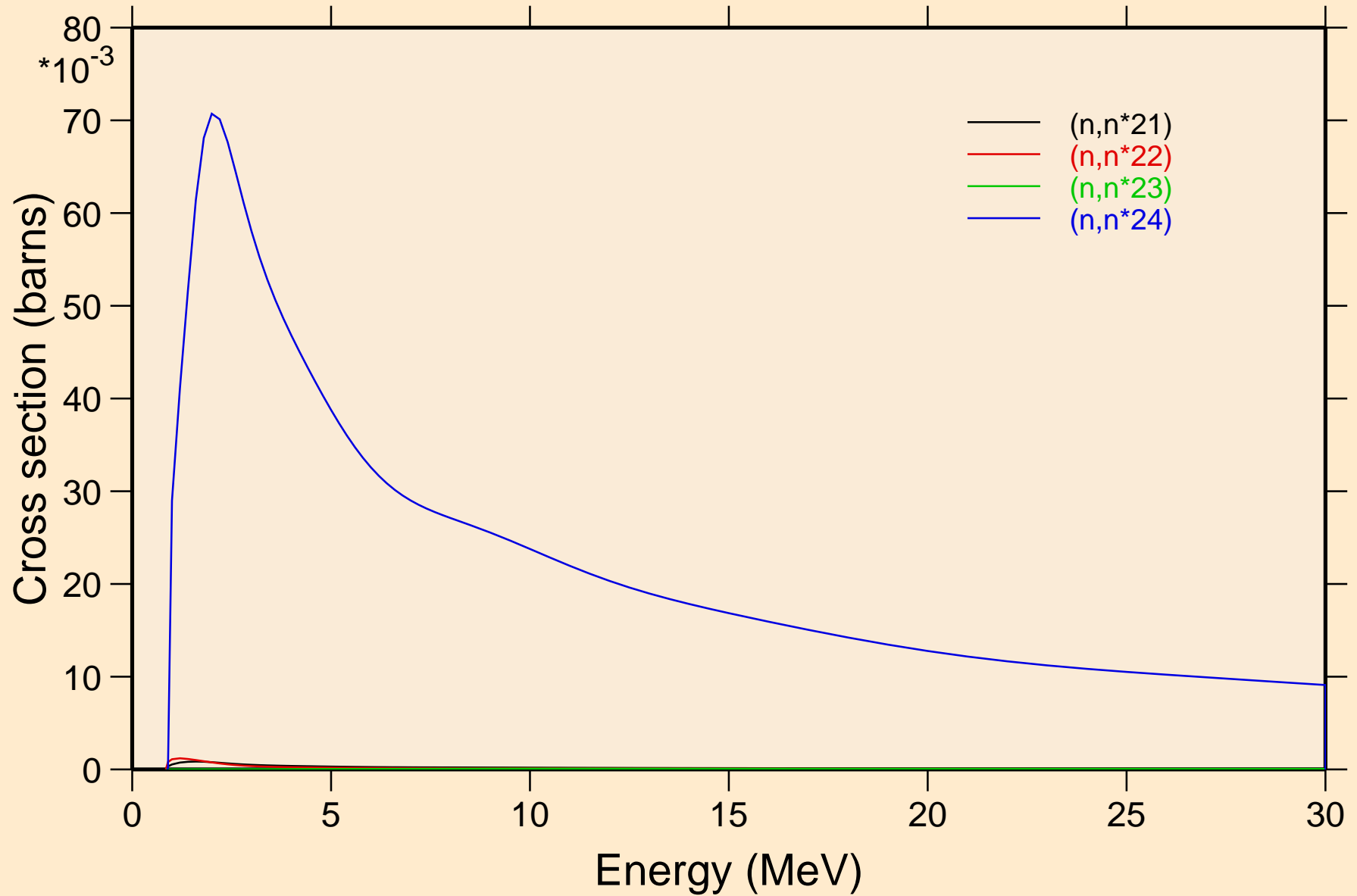
## Inelastic levels



GD137 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Inelastic levels

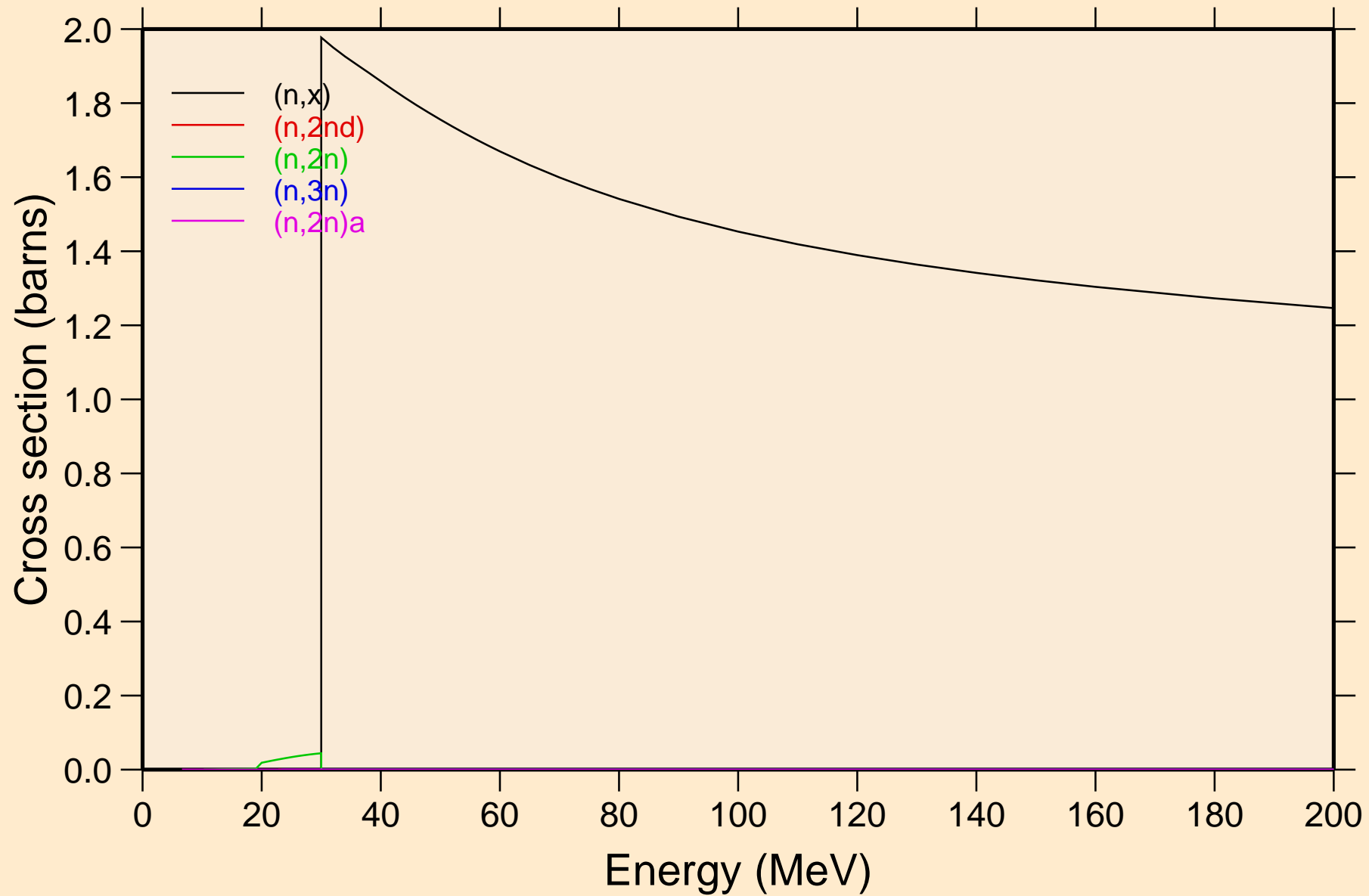


GD137 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Inelastic levels



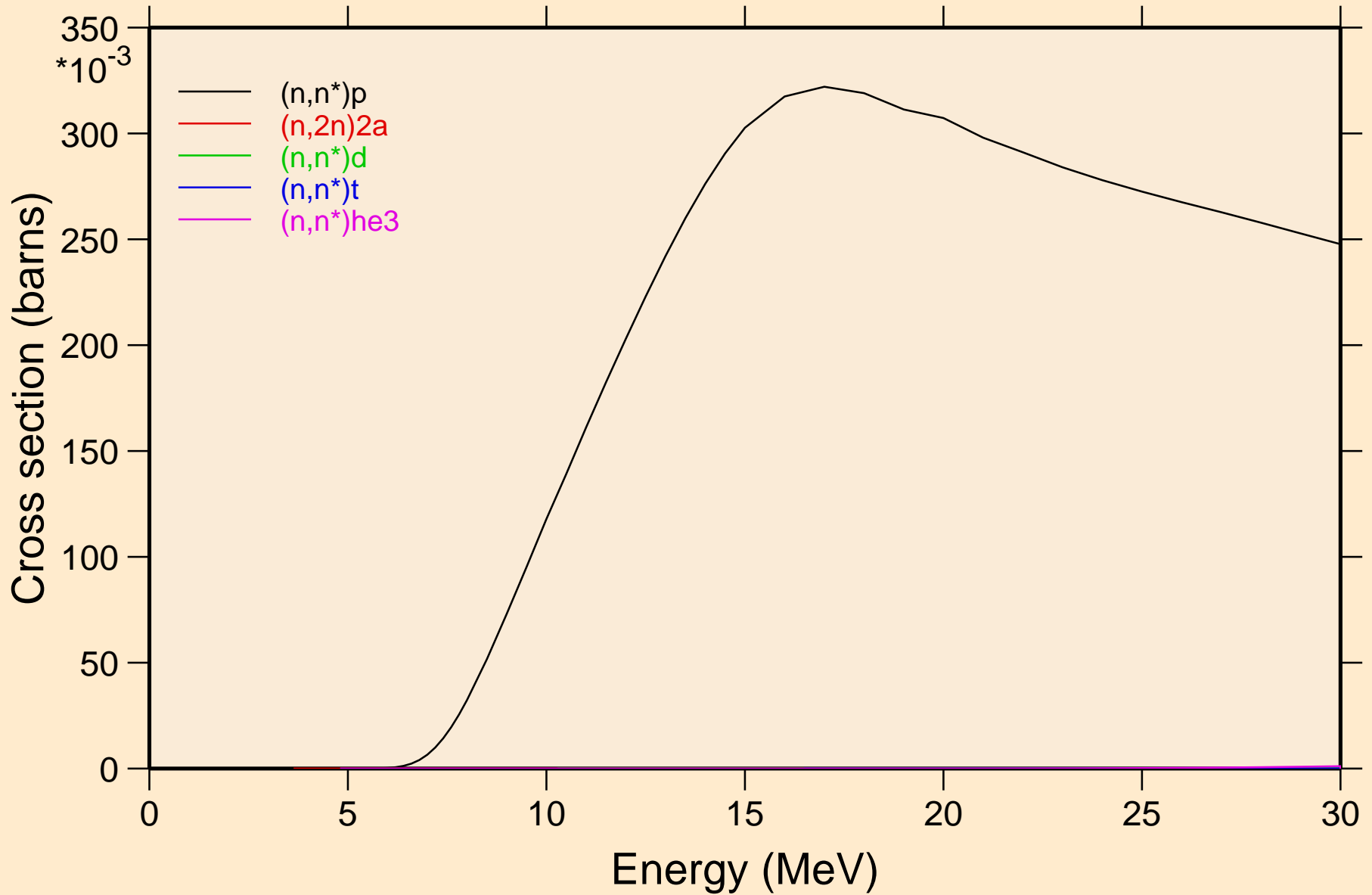
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## Threshold reactions



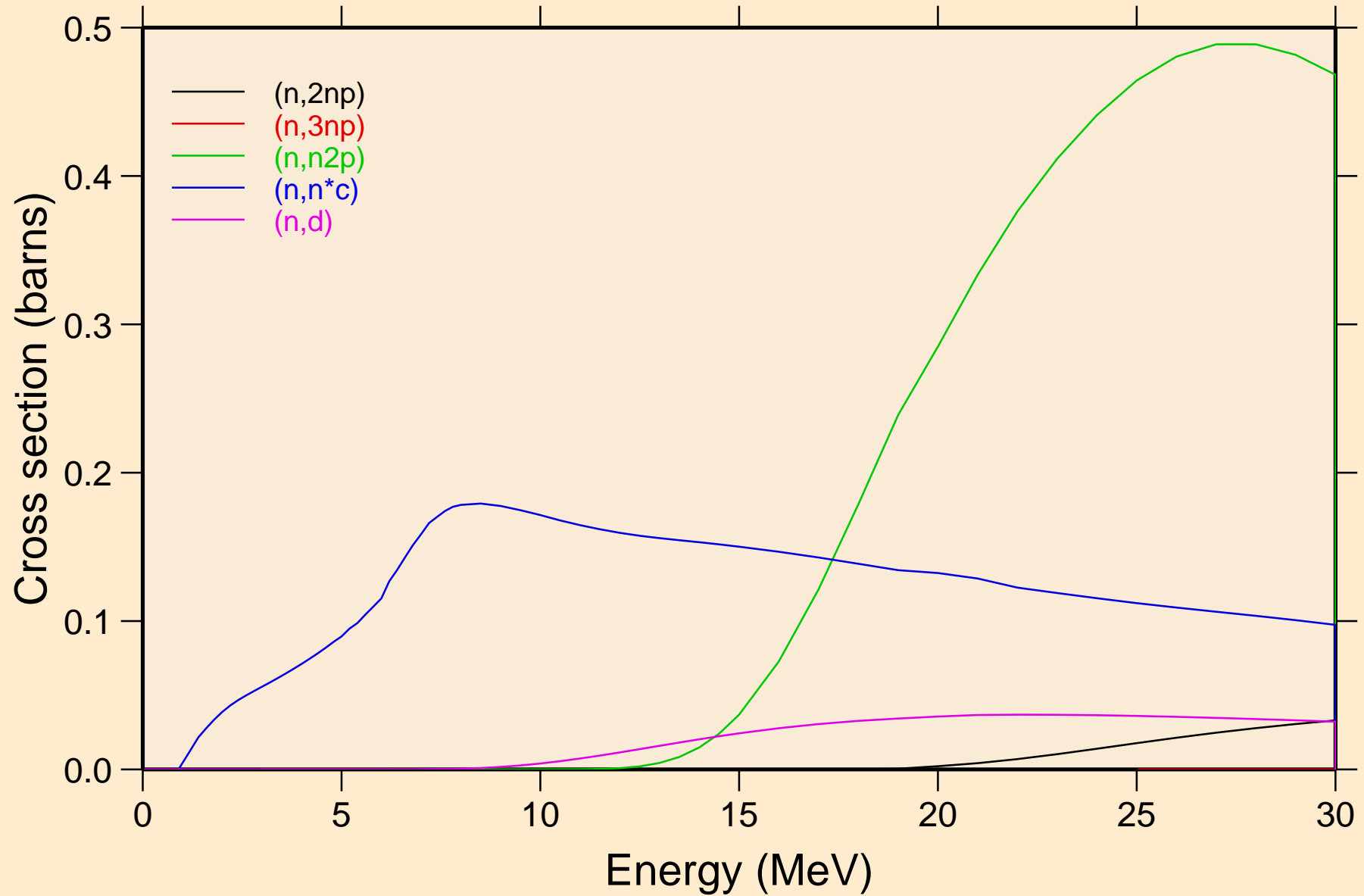
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## Threshold reactions



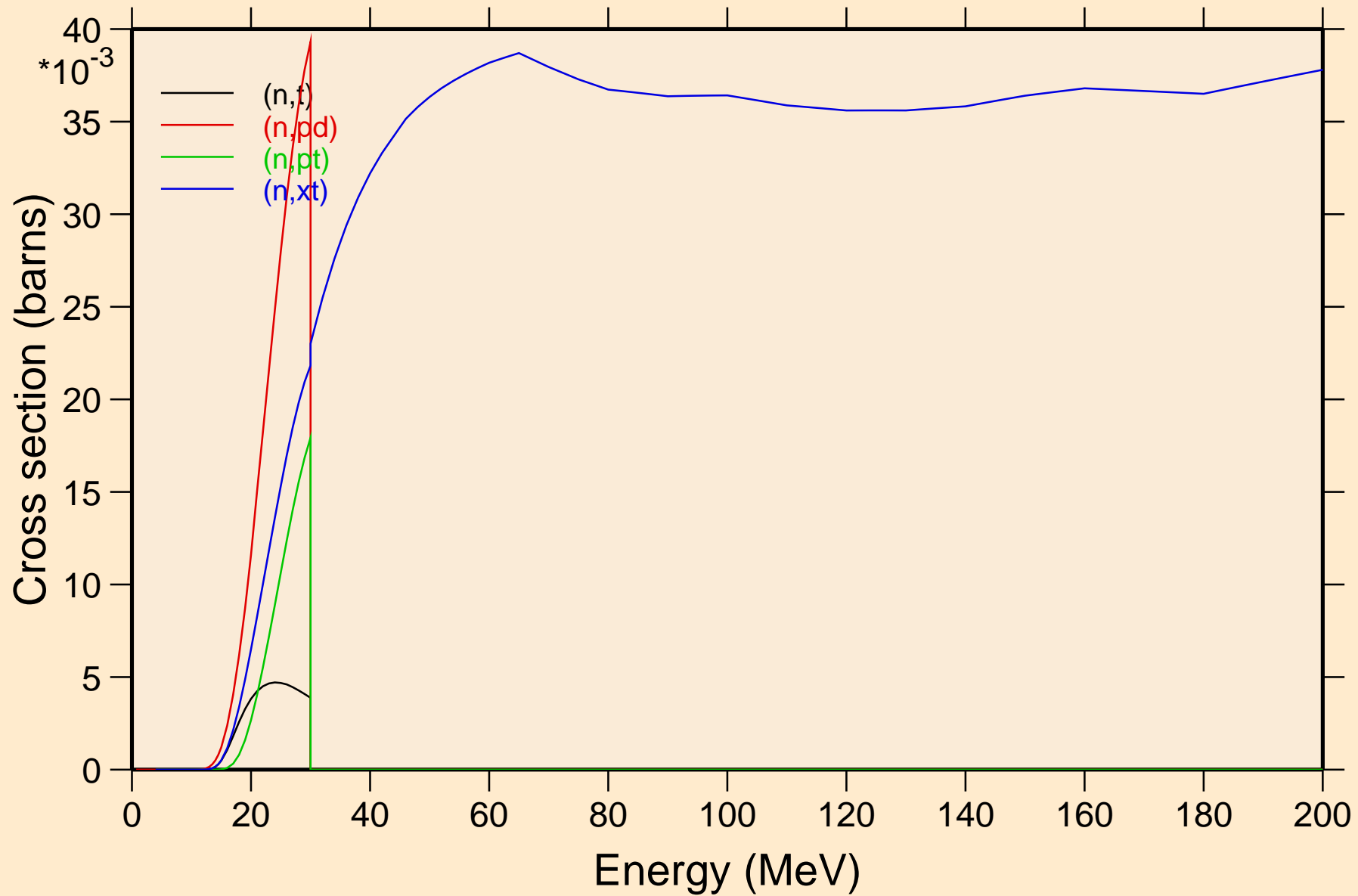
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## Threshold reactions

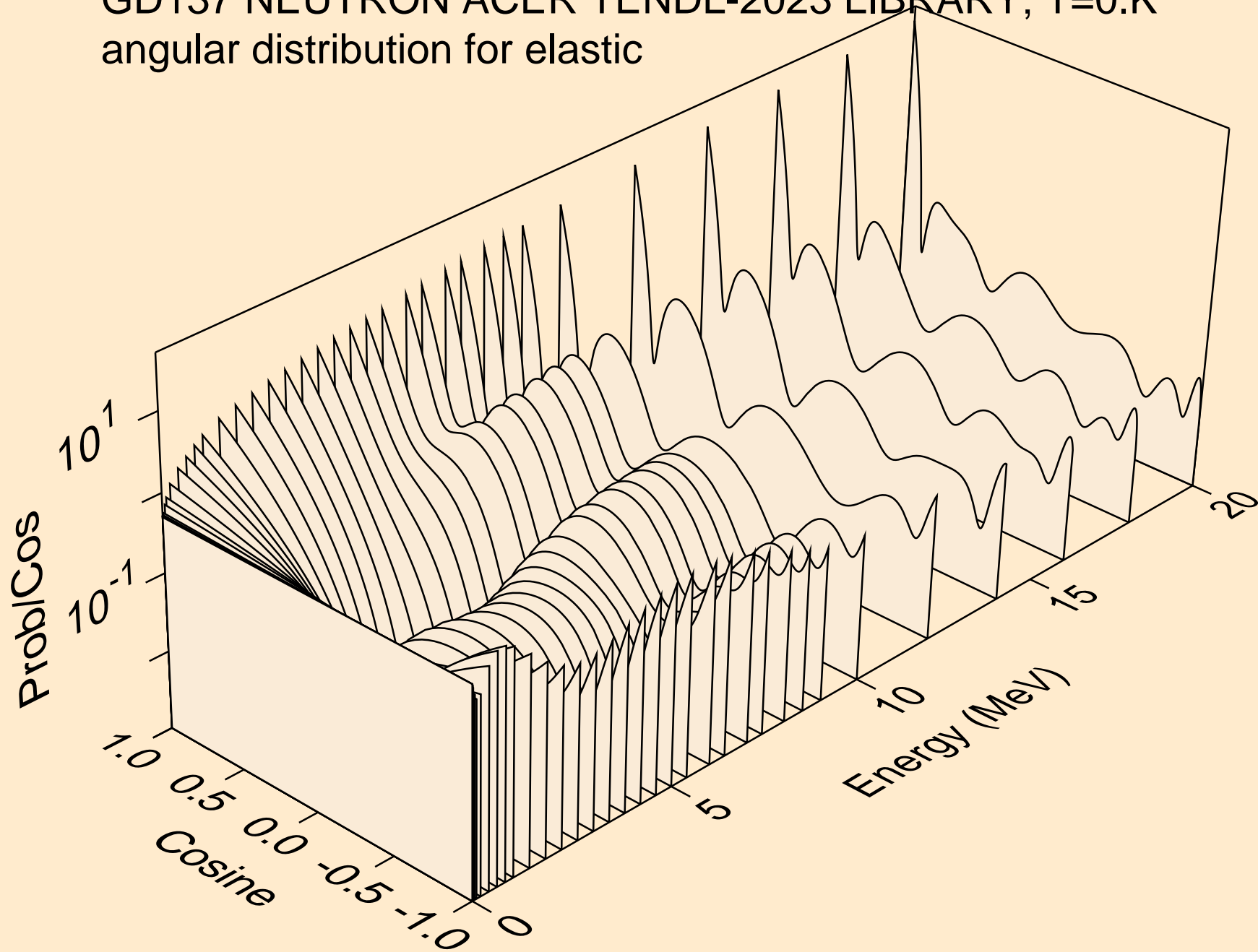


# GD137 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

## Threshold reactions

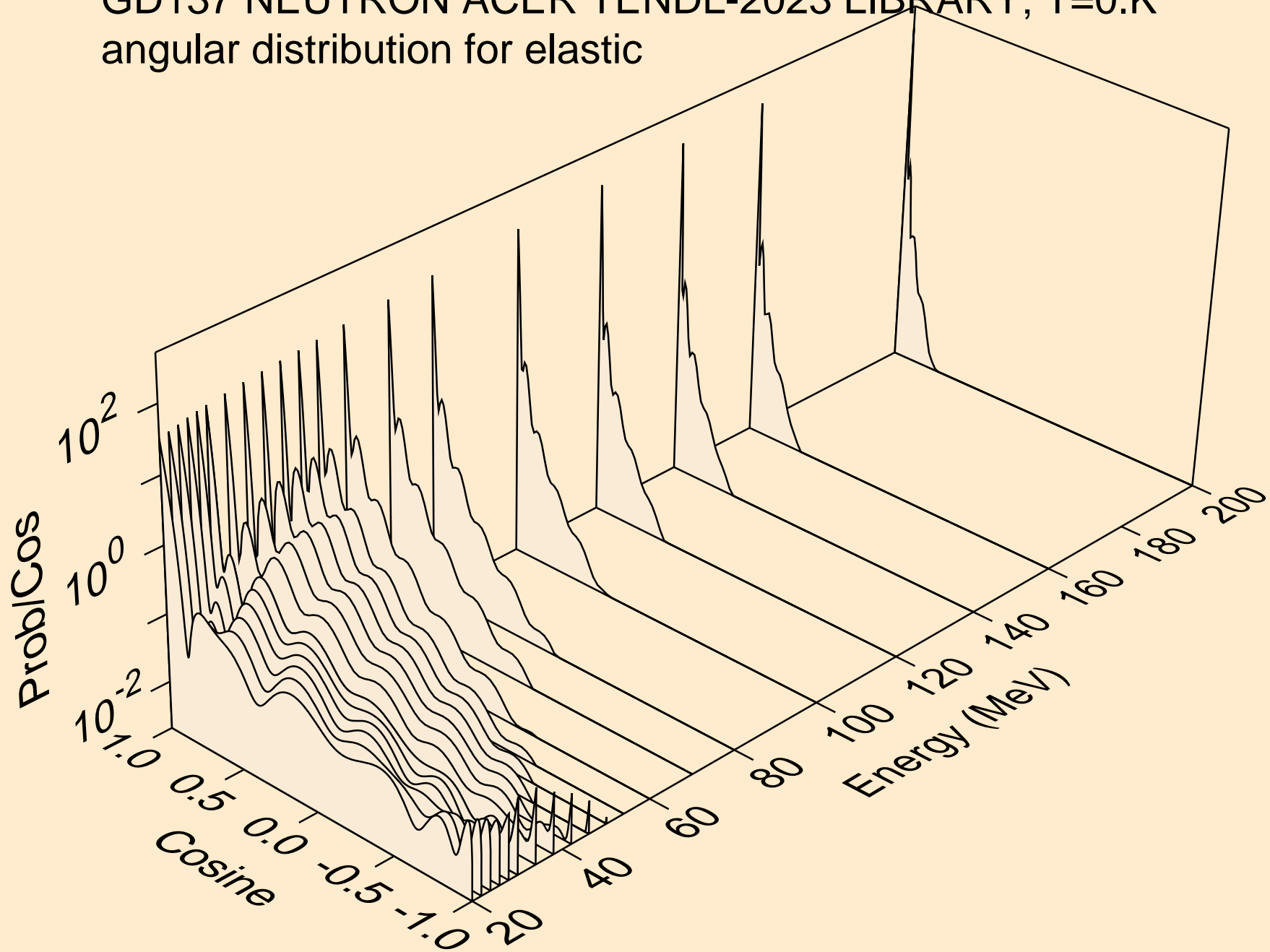


GD137 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for elastic

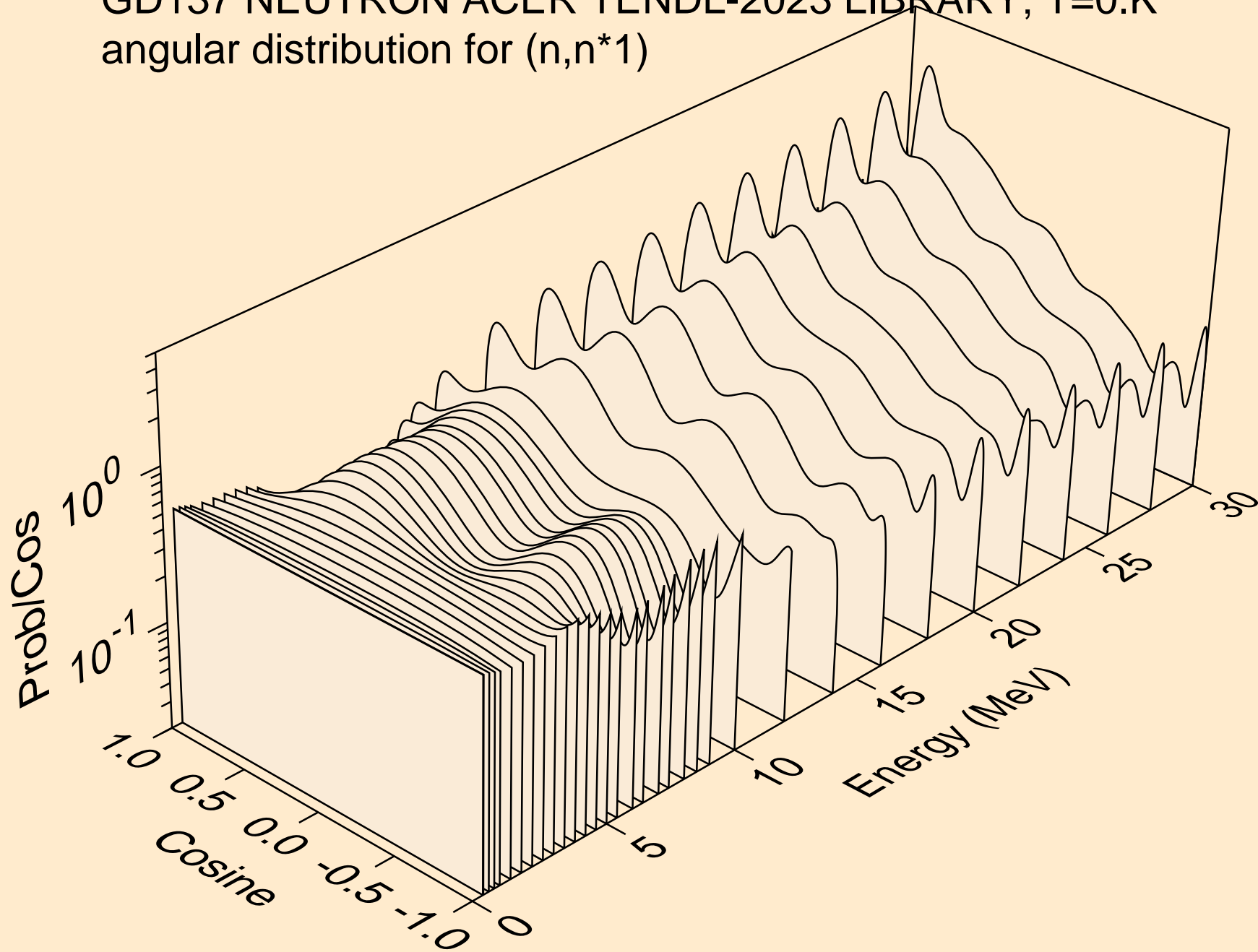




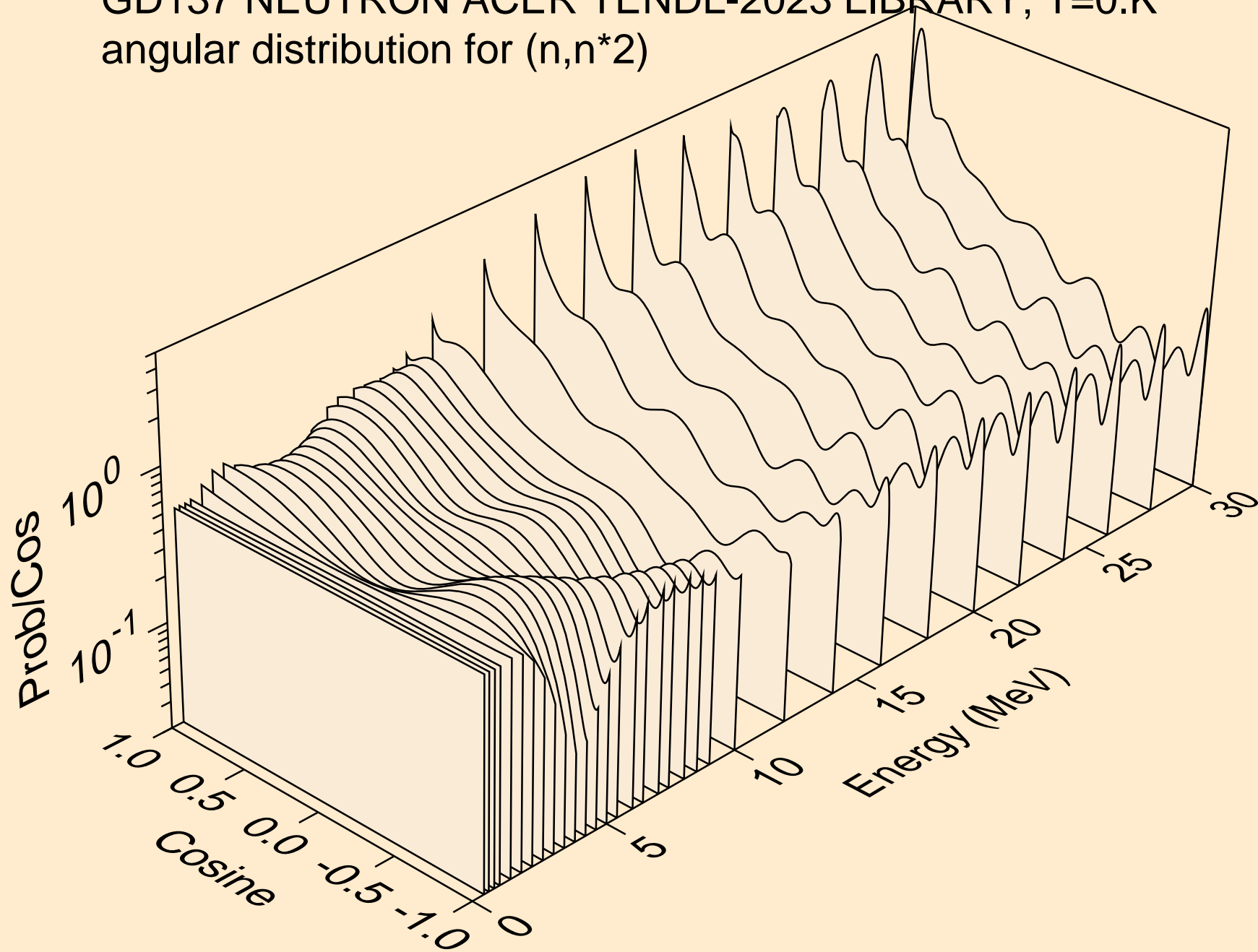
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angular distribution for elastic



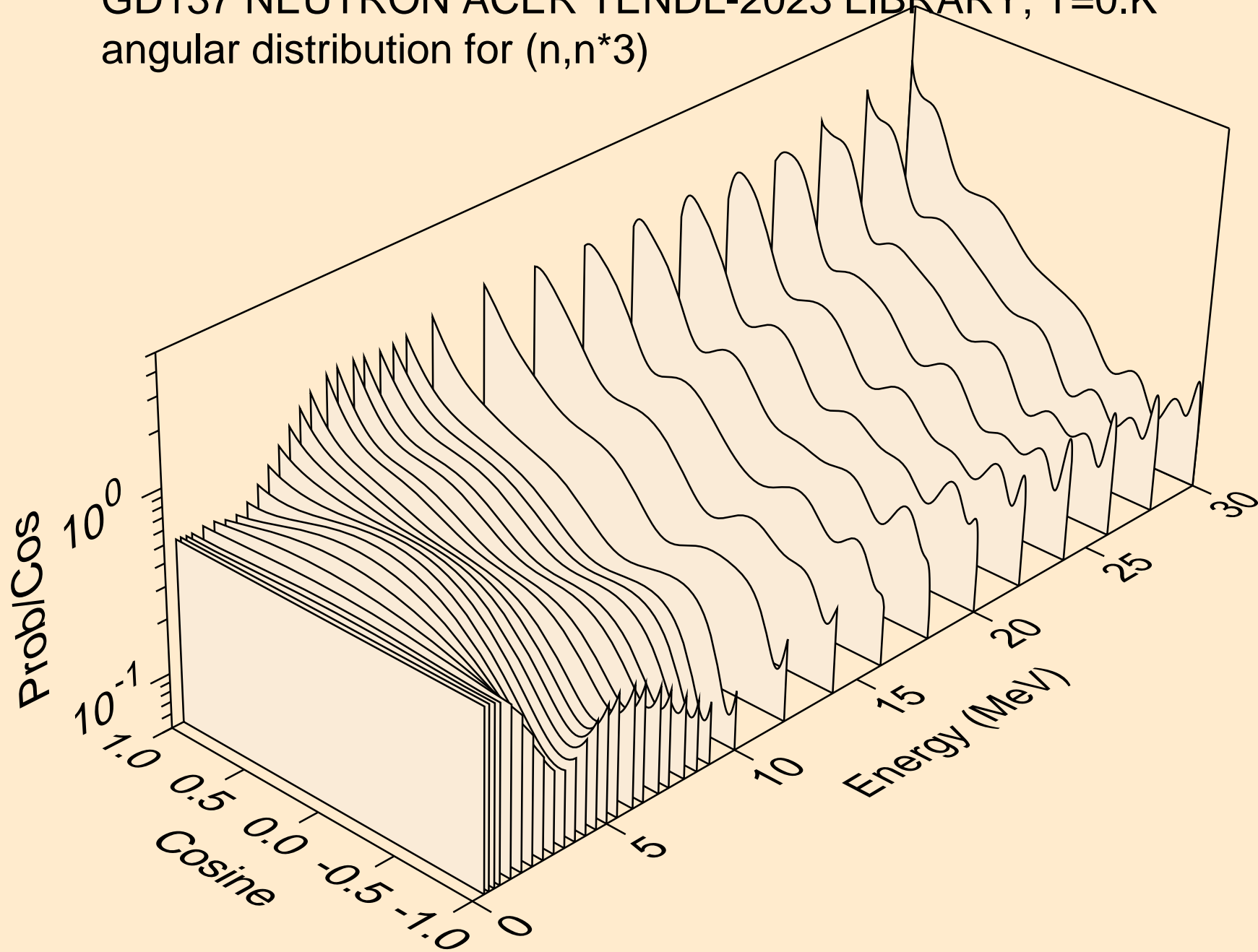
GD137 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*1)



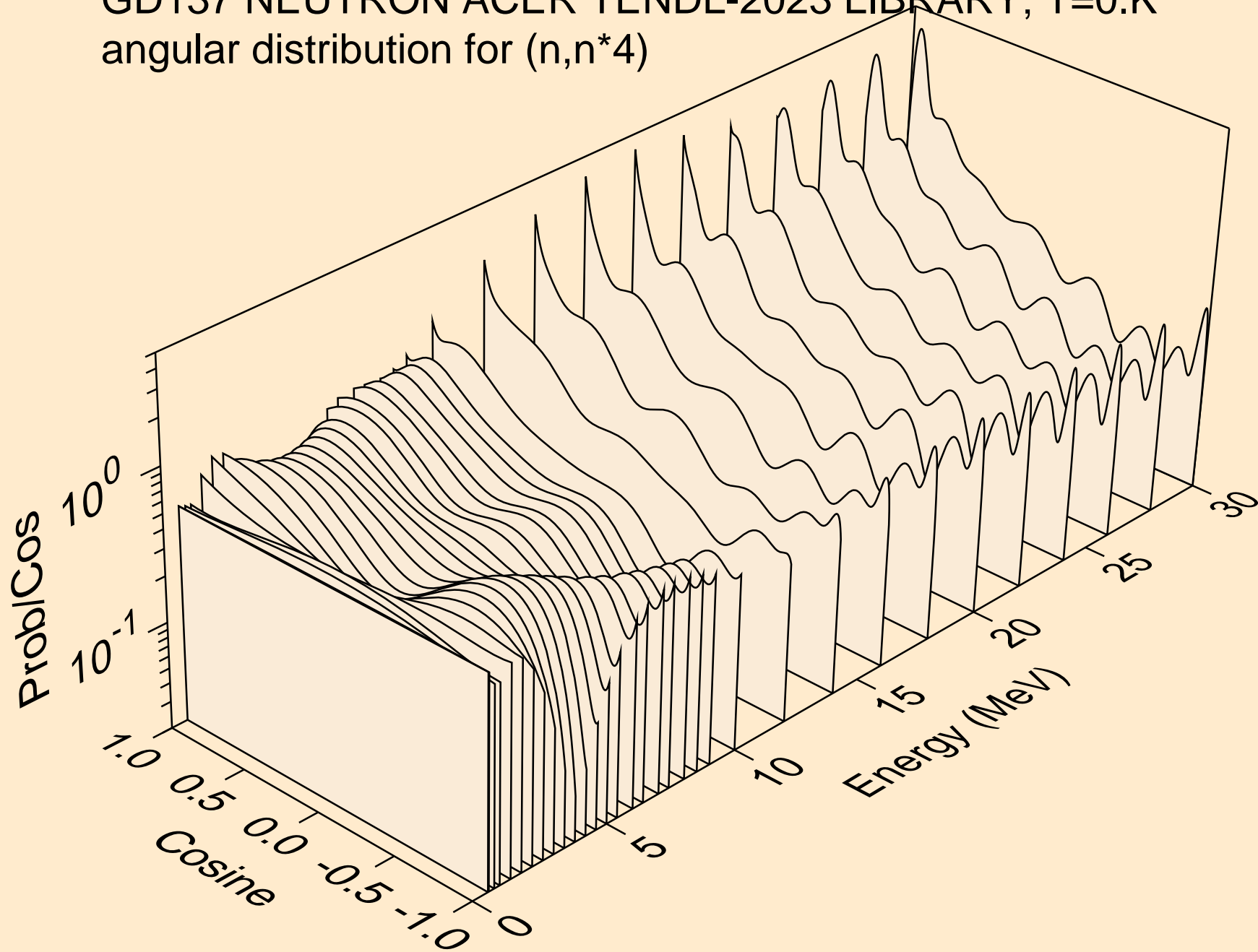
GD137 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*2)



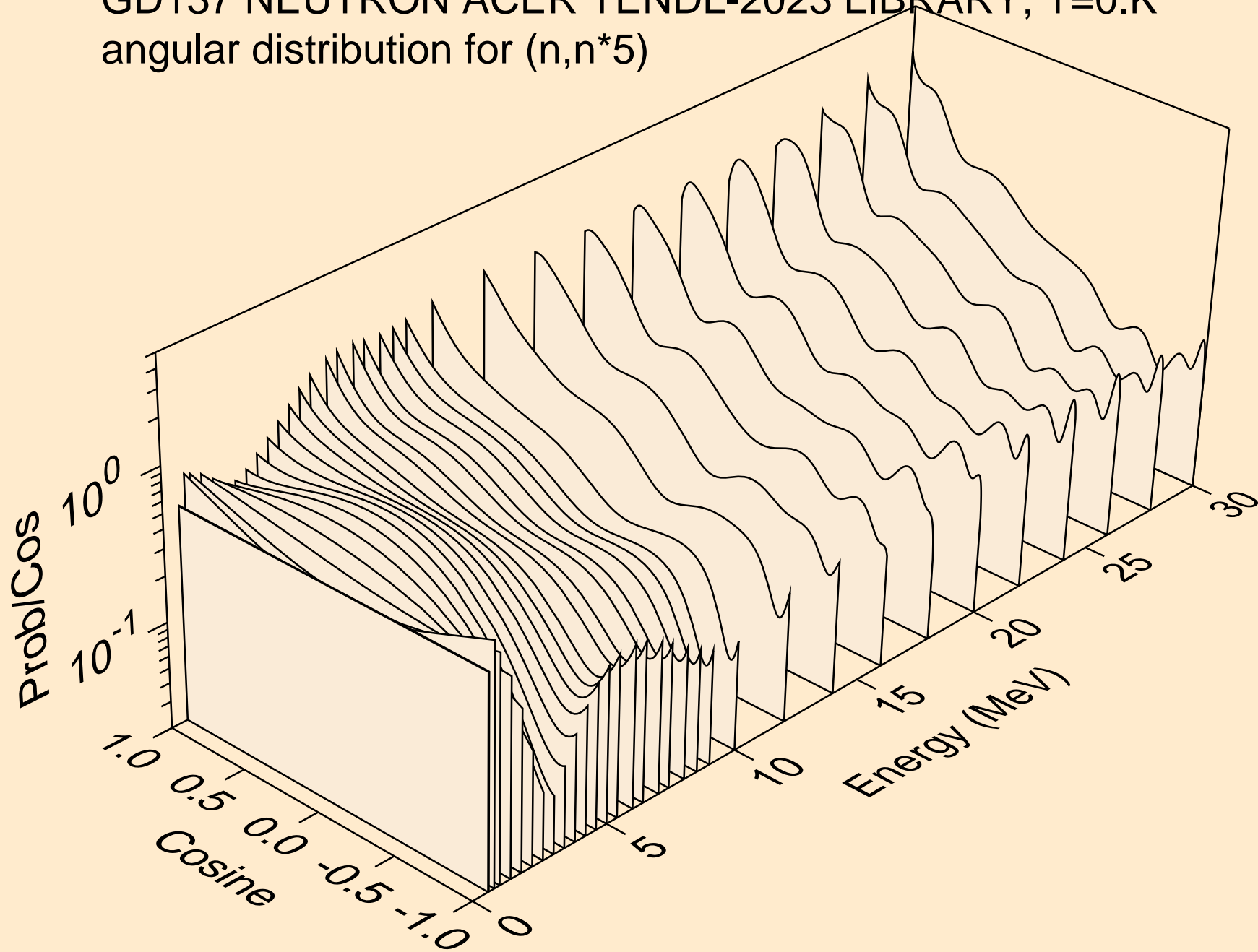
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angular distribution for (n,n\*3)



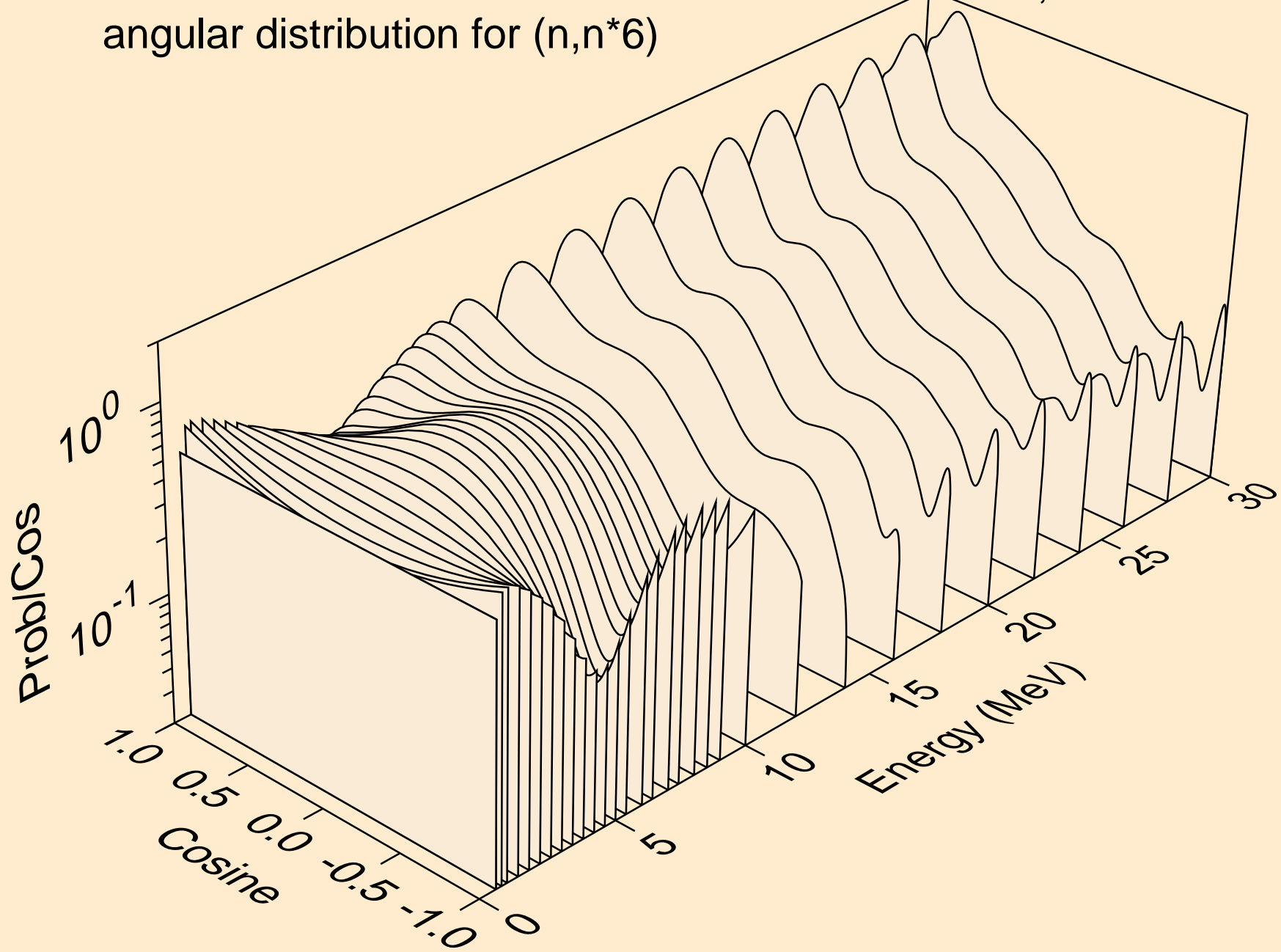
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angular distribution for (n,n\*4)



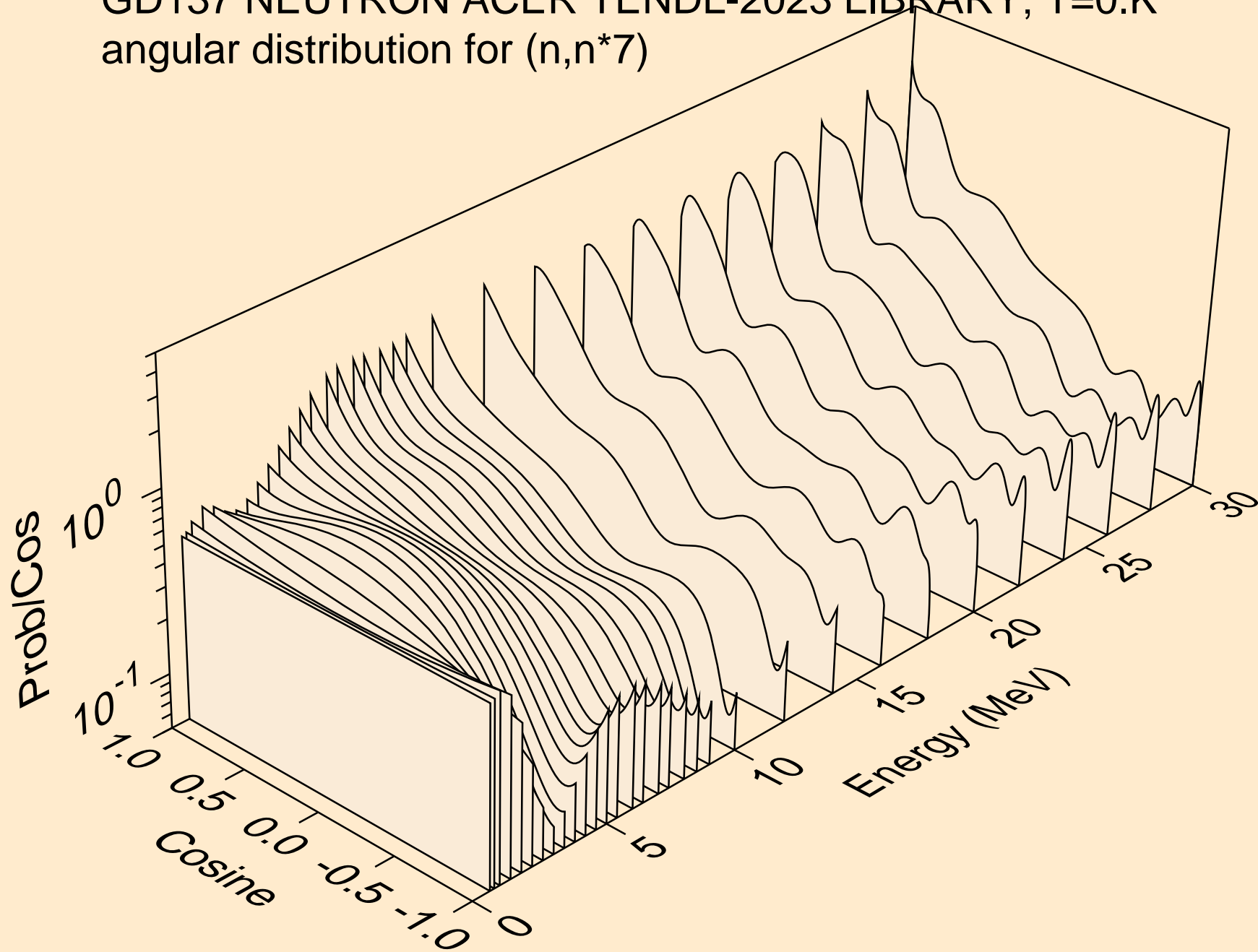
GD137 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*5)



GD137 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*6)

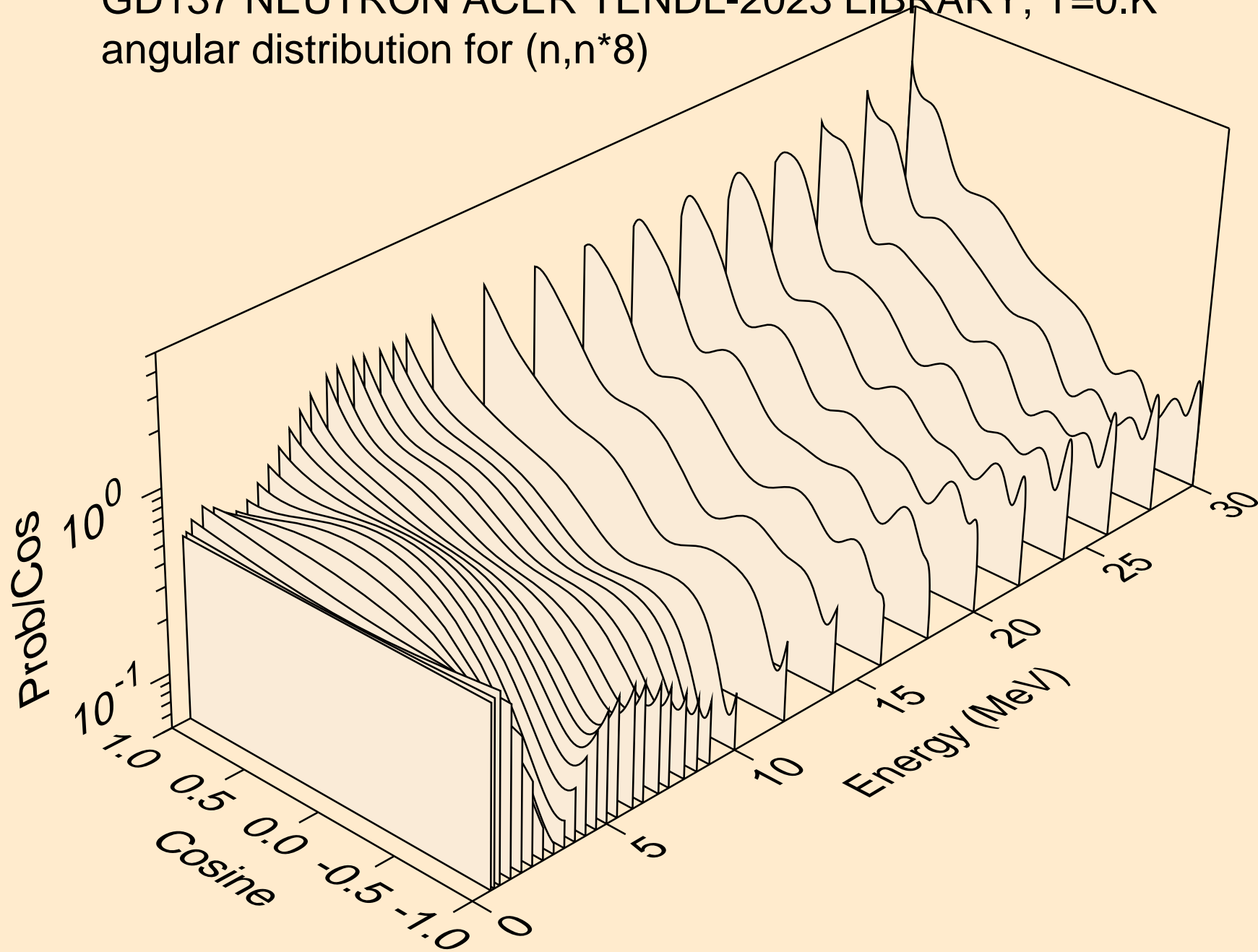


GD137 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*7)

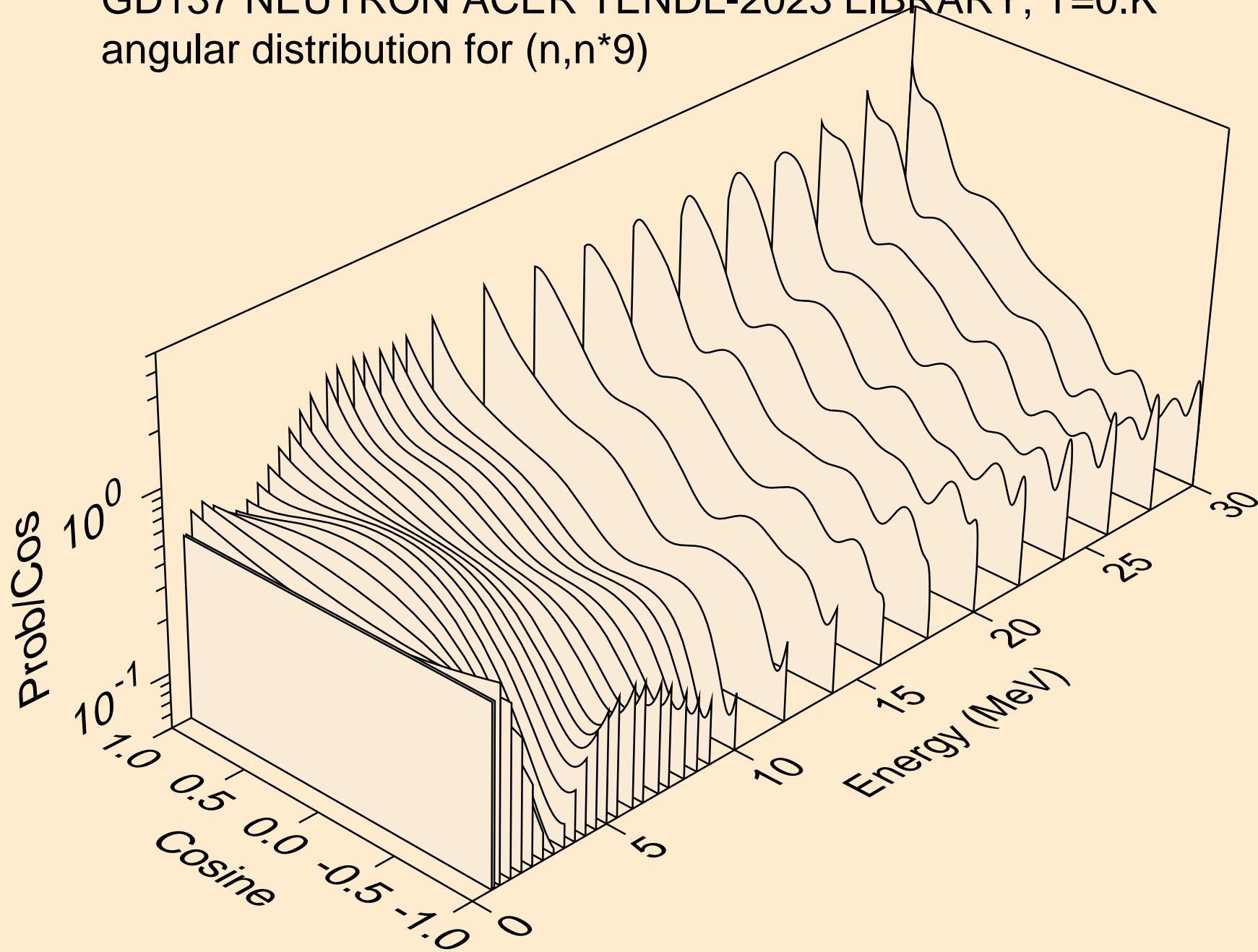




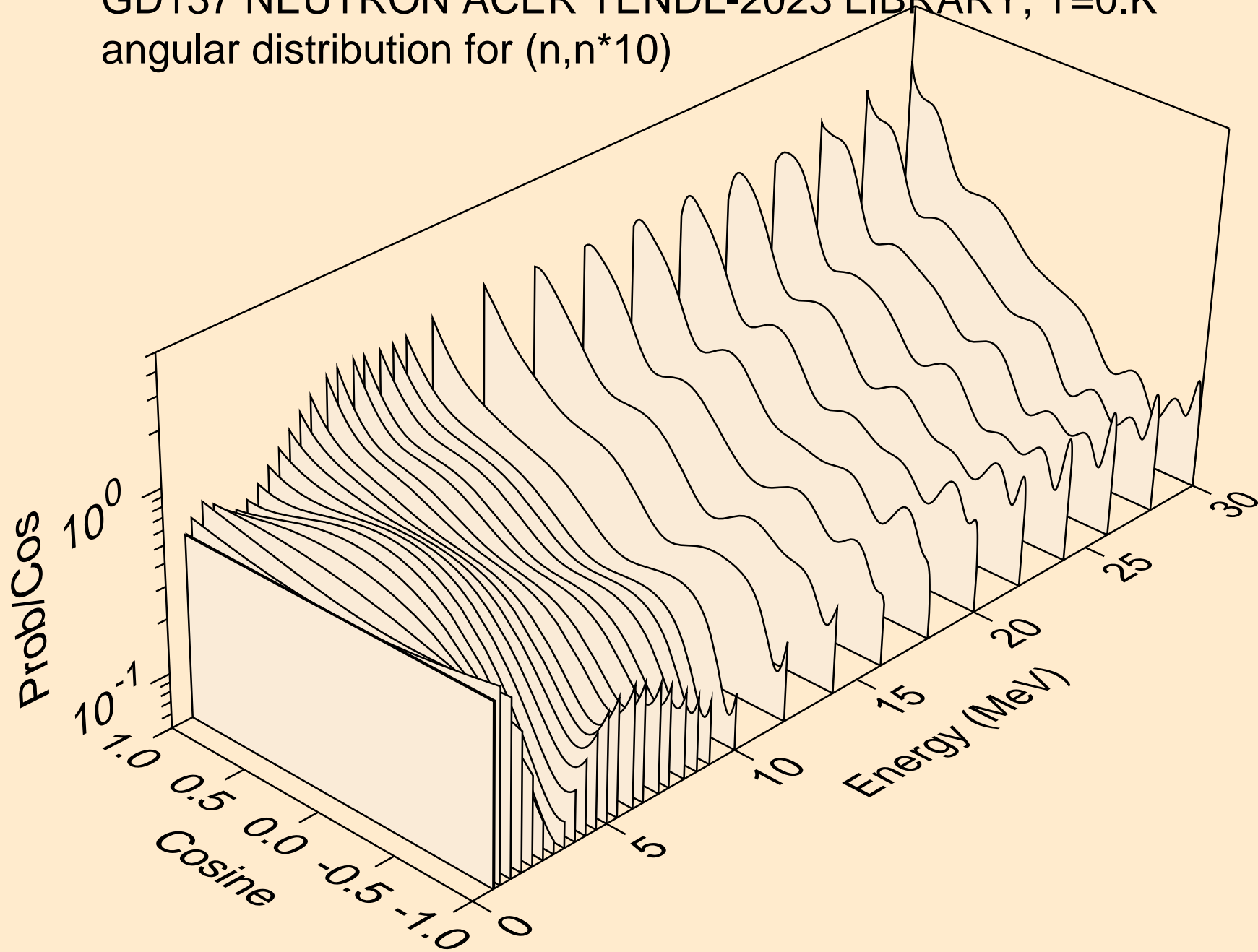
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angular distribution for (n,n\*8)



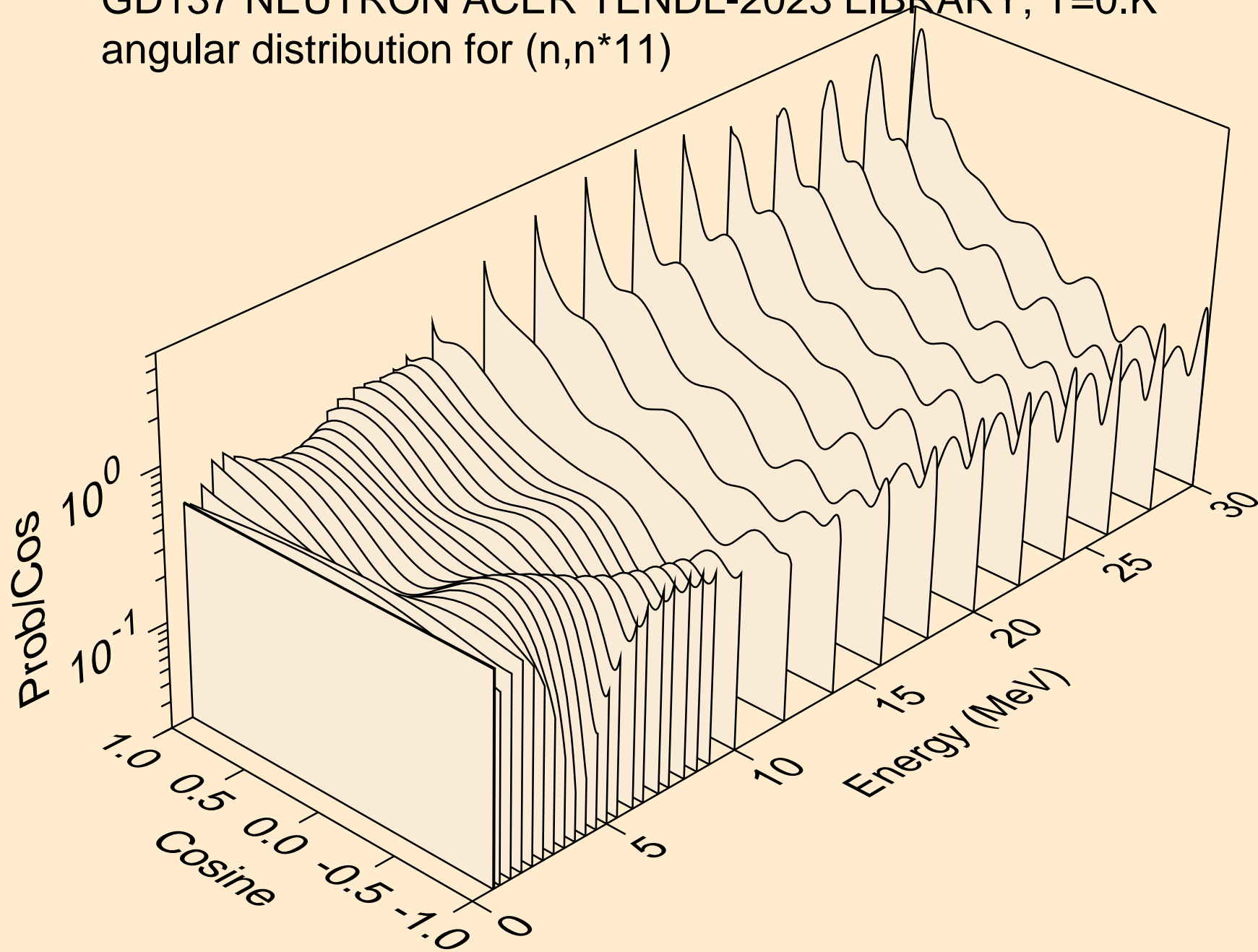
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angular distribution for (n,n\*9)



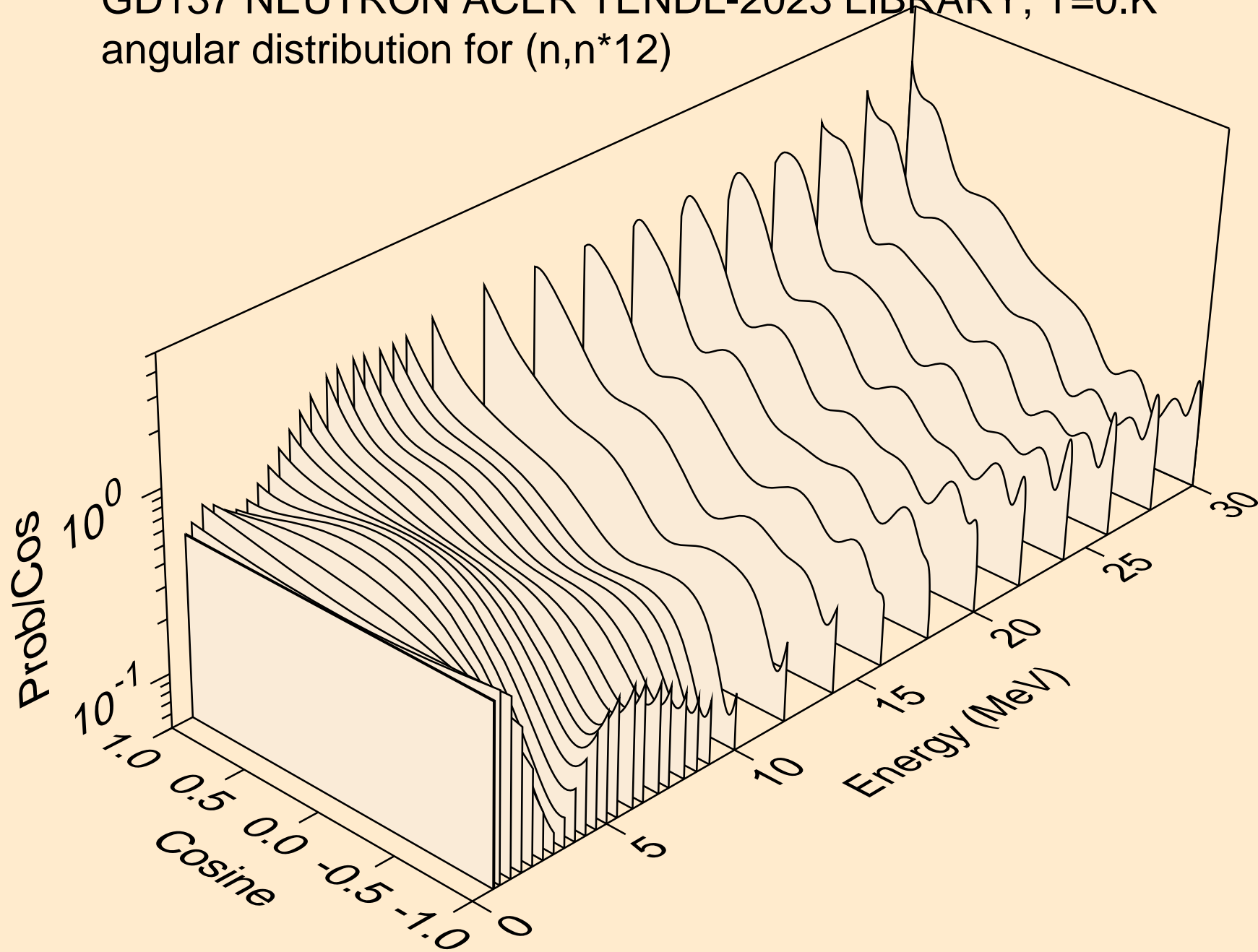
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angular distribution for (n,n\*10)



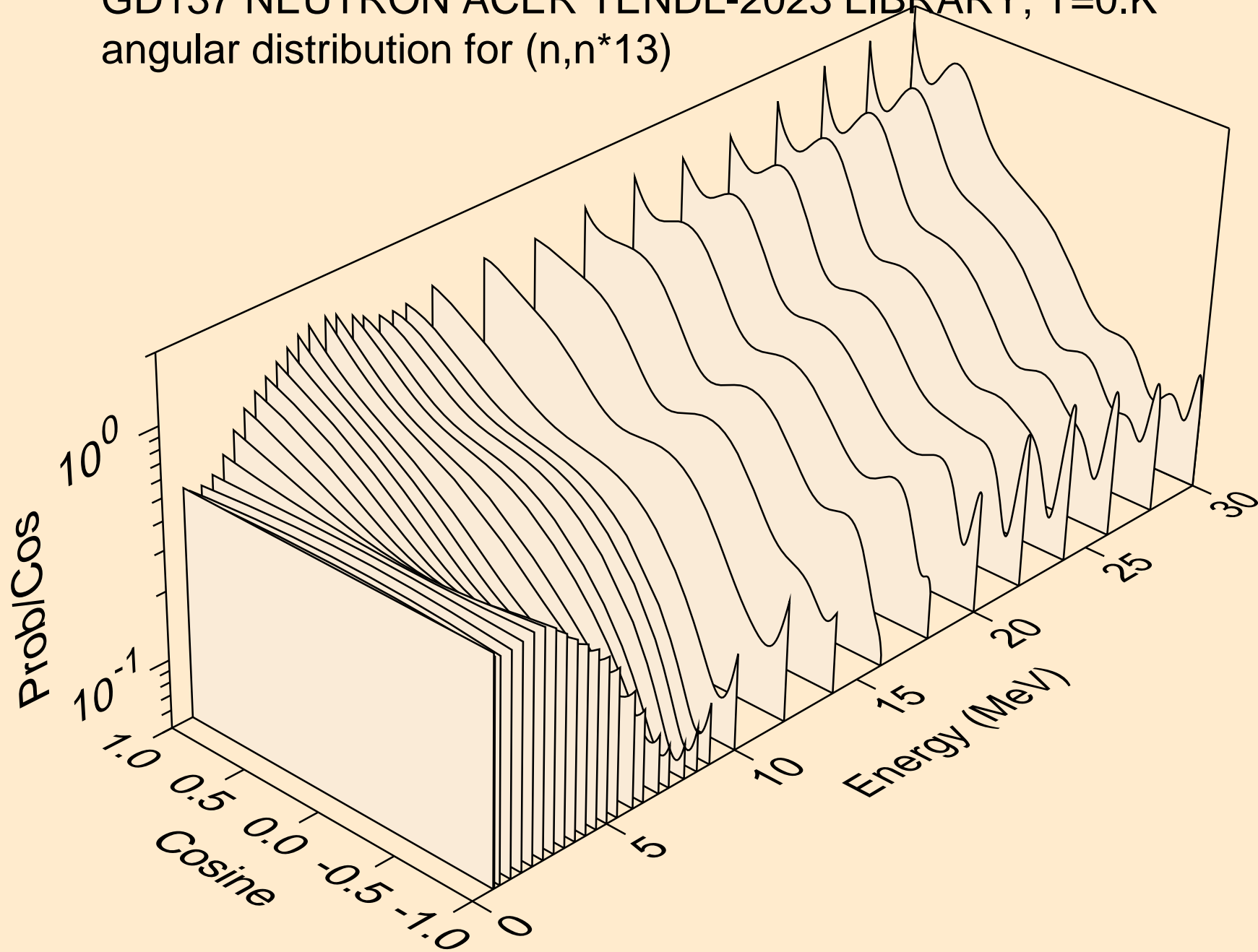
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angular distribution for (n,n\*11)



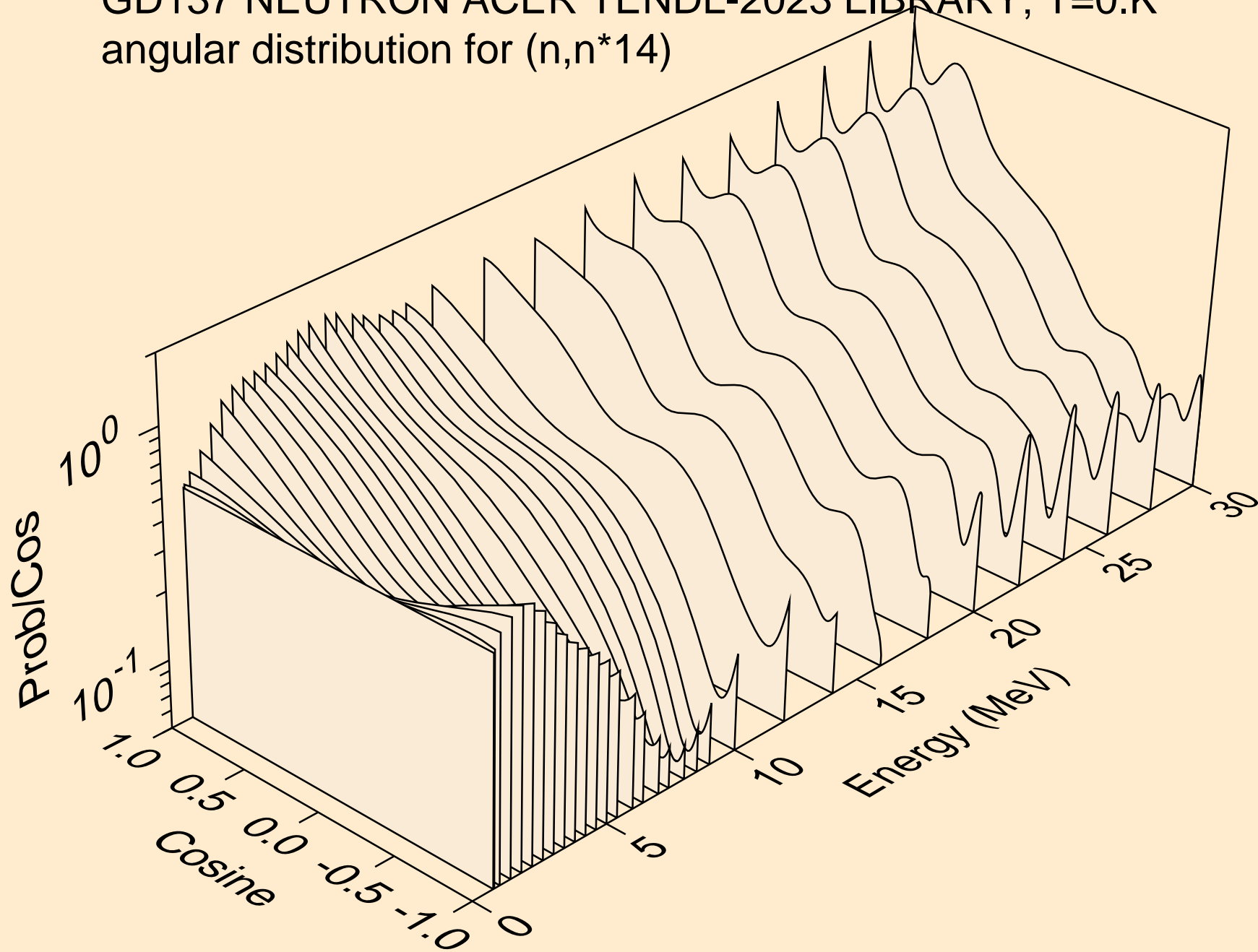
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angular distribution for (n,n\*12)



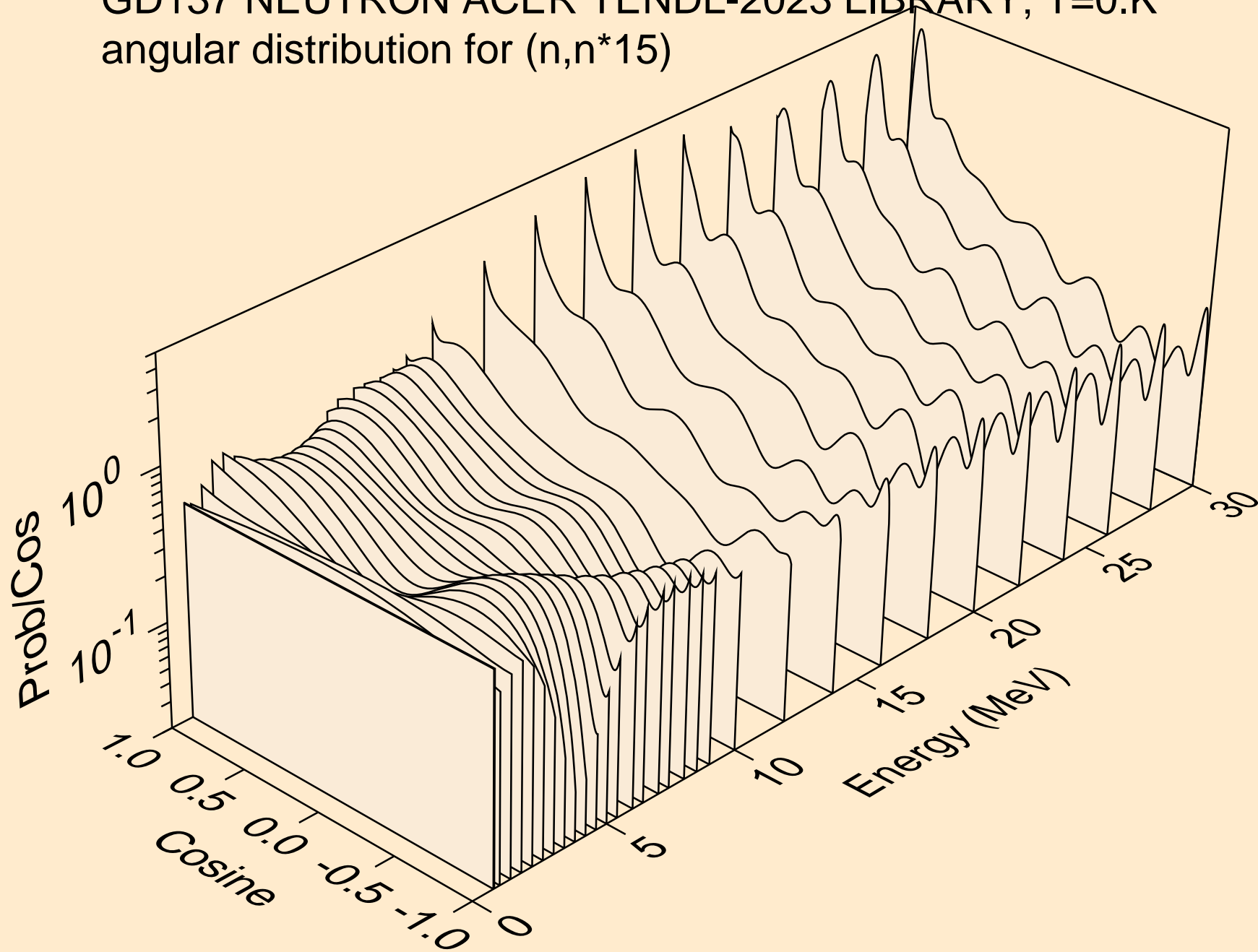
GD137 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*13)



GD137 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*14)

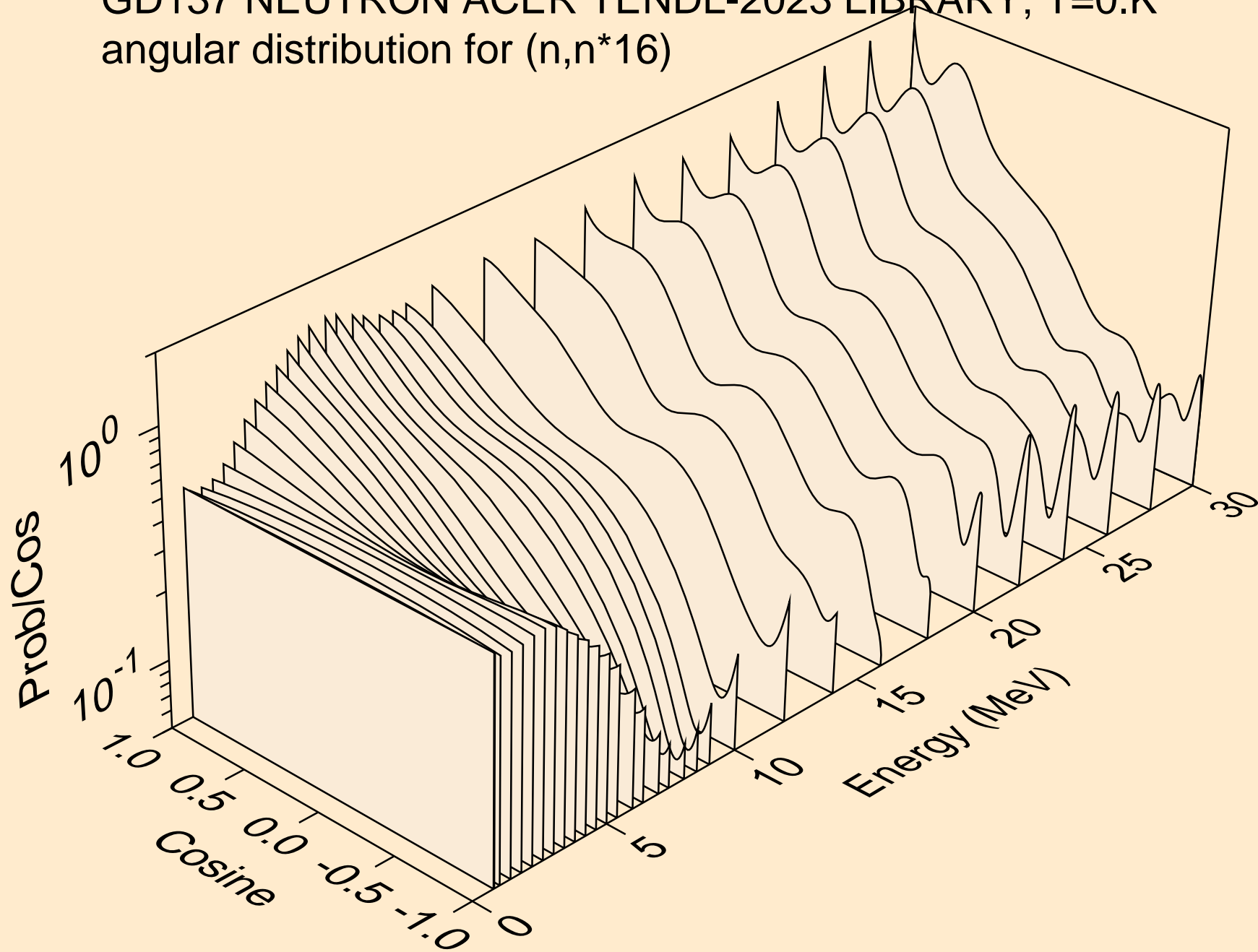


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angular distribution for (n,n\*15)

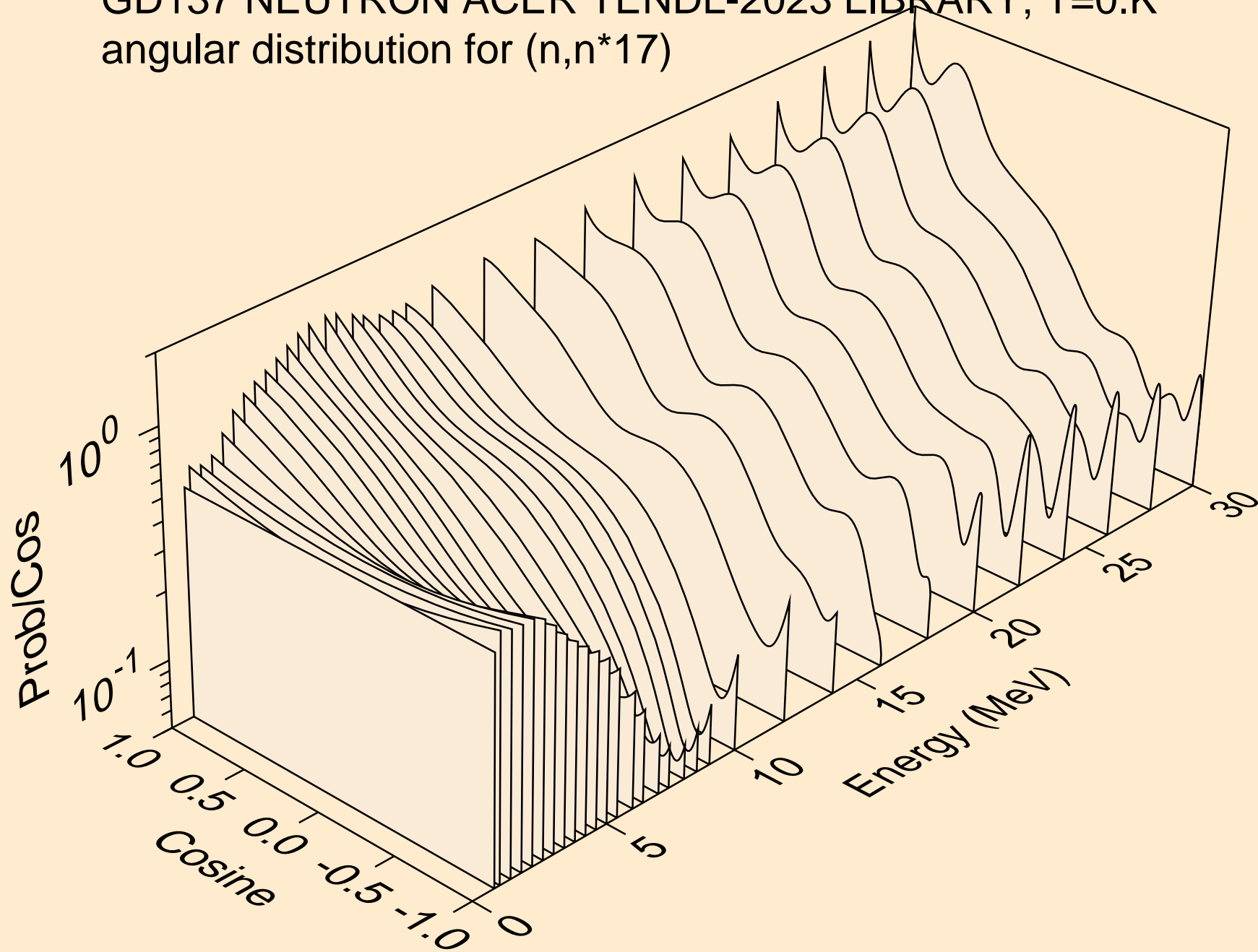




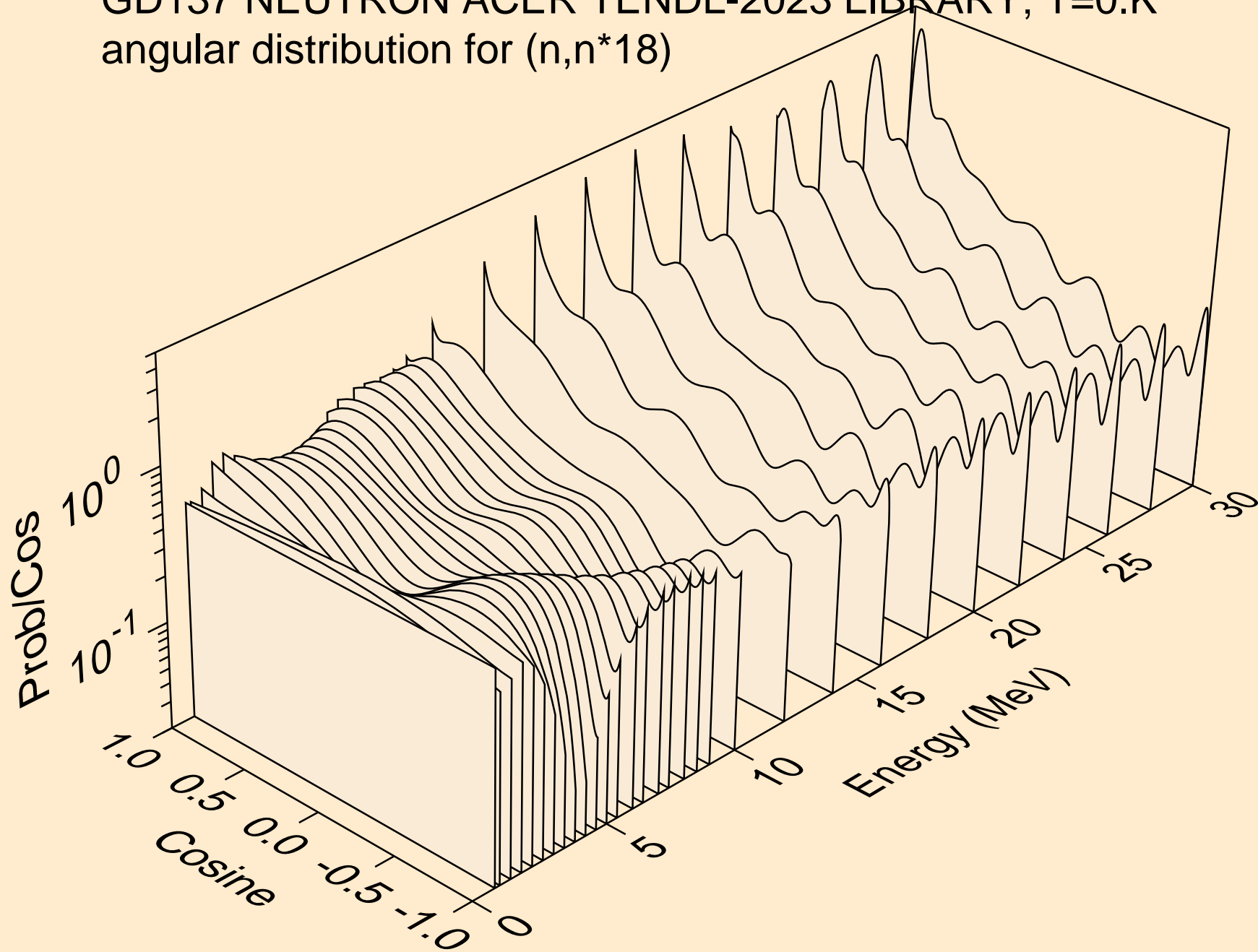
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angular distribution for (n,n\*16)



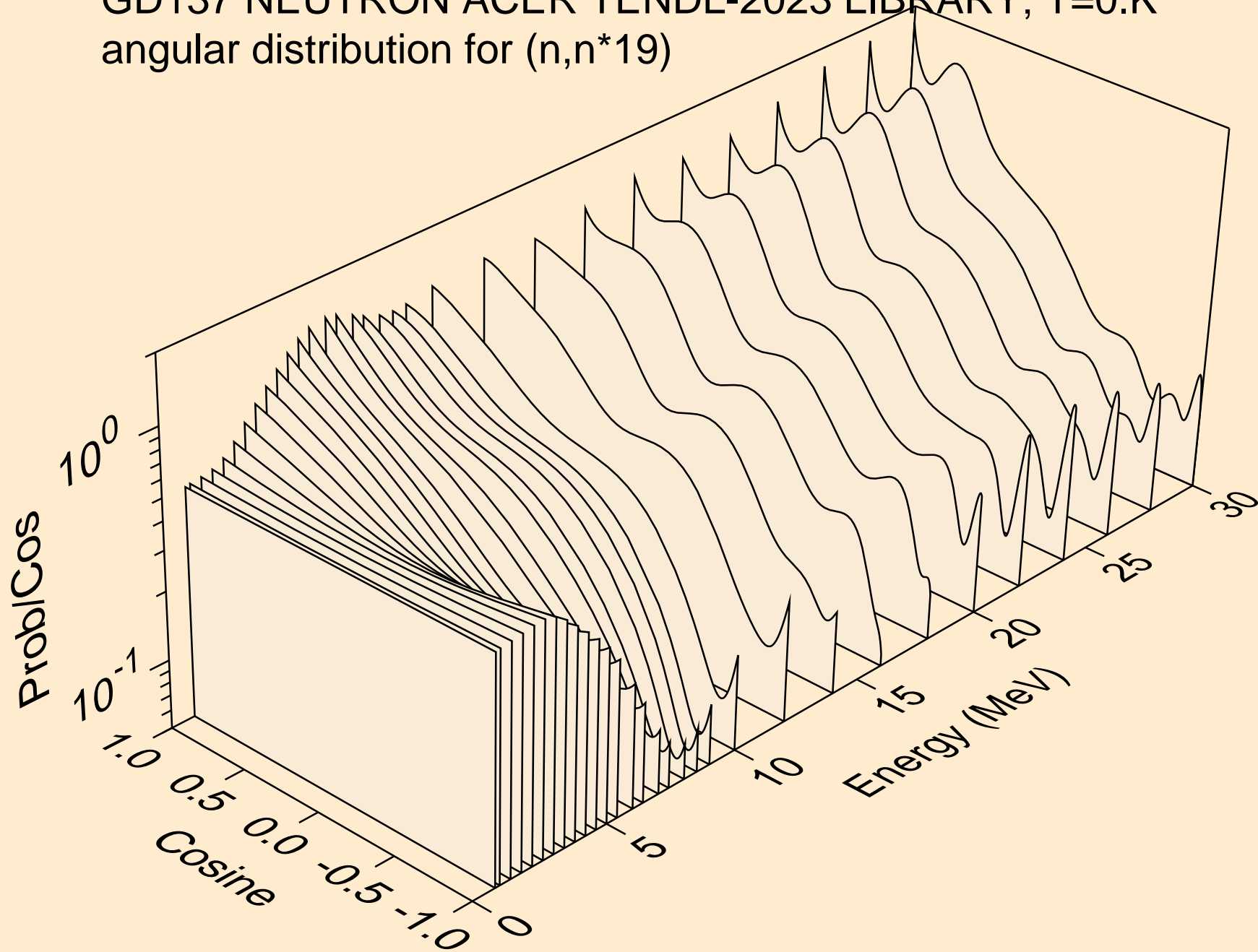
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angular distribution for (n,n\*17)



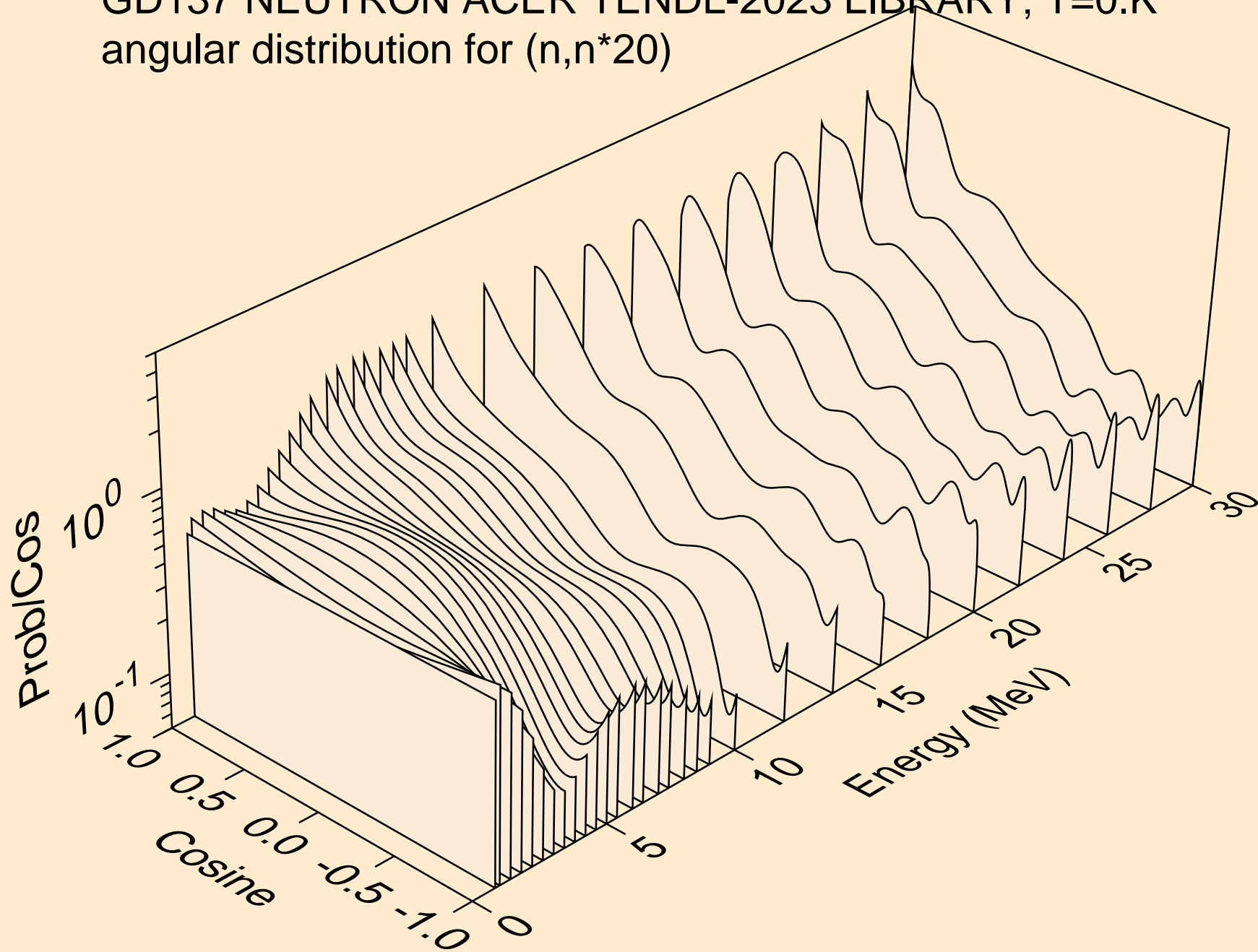
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angular distribution for (n,n\*18)



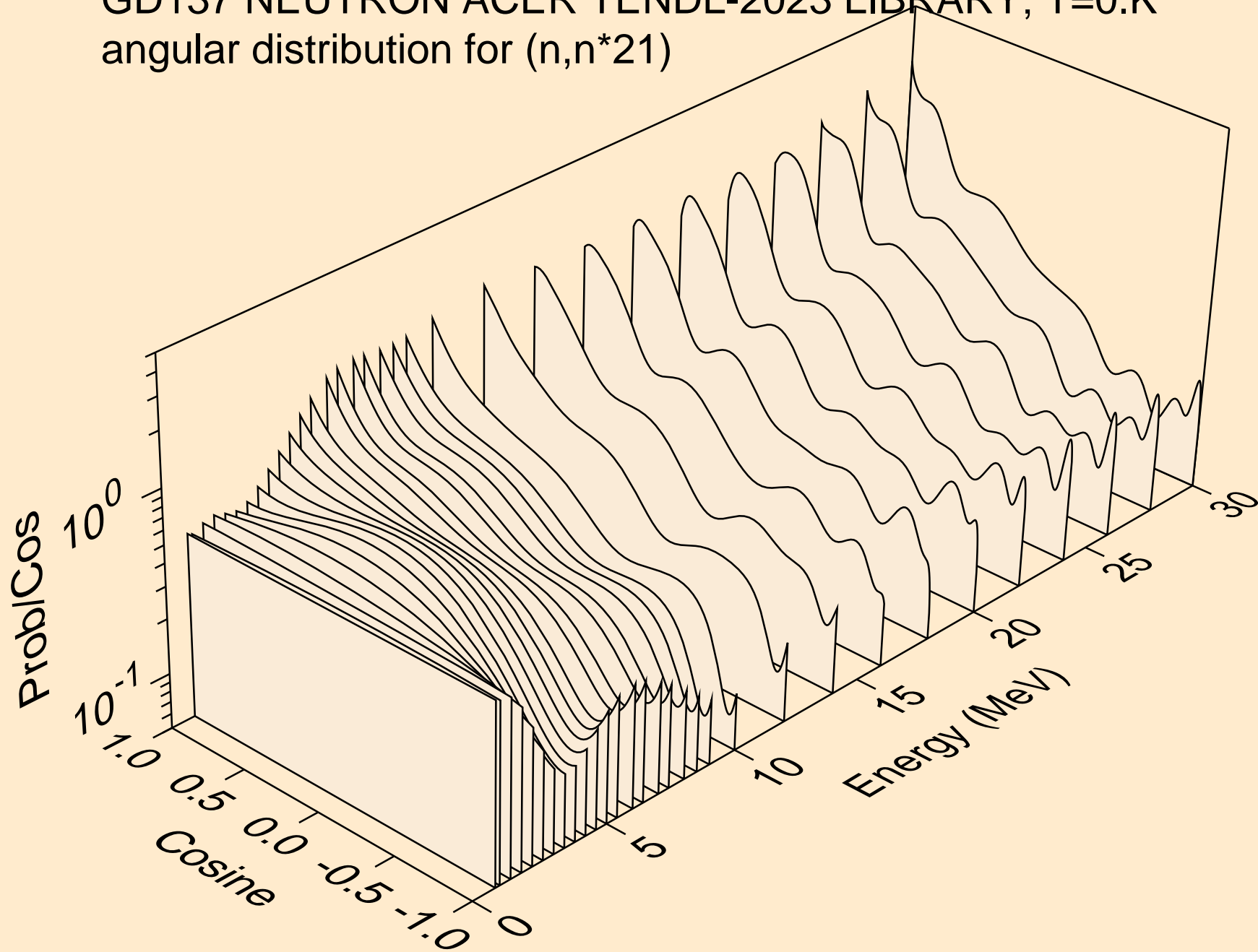
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angular distribution for (n,n\*19)



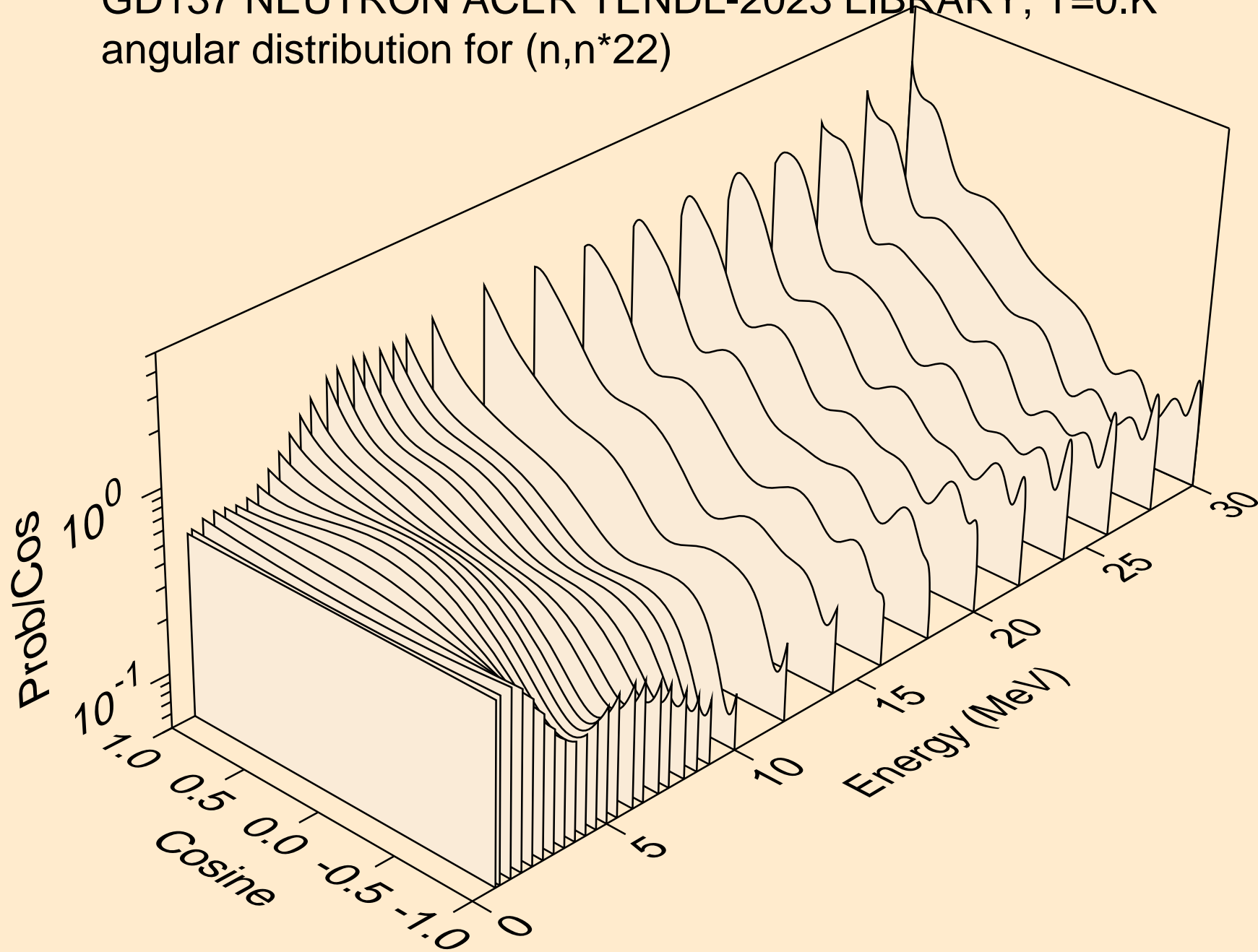
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angular distribution for (n,n\*20)



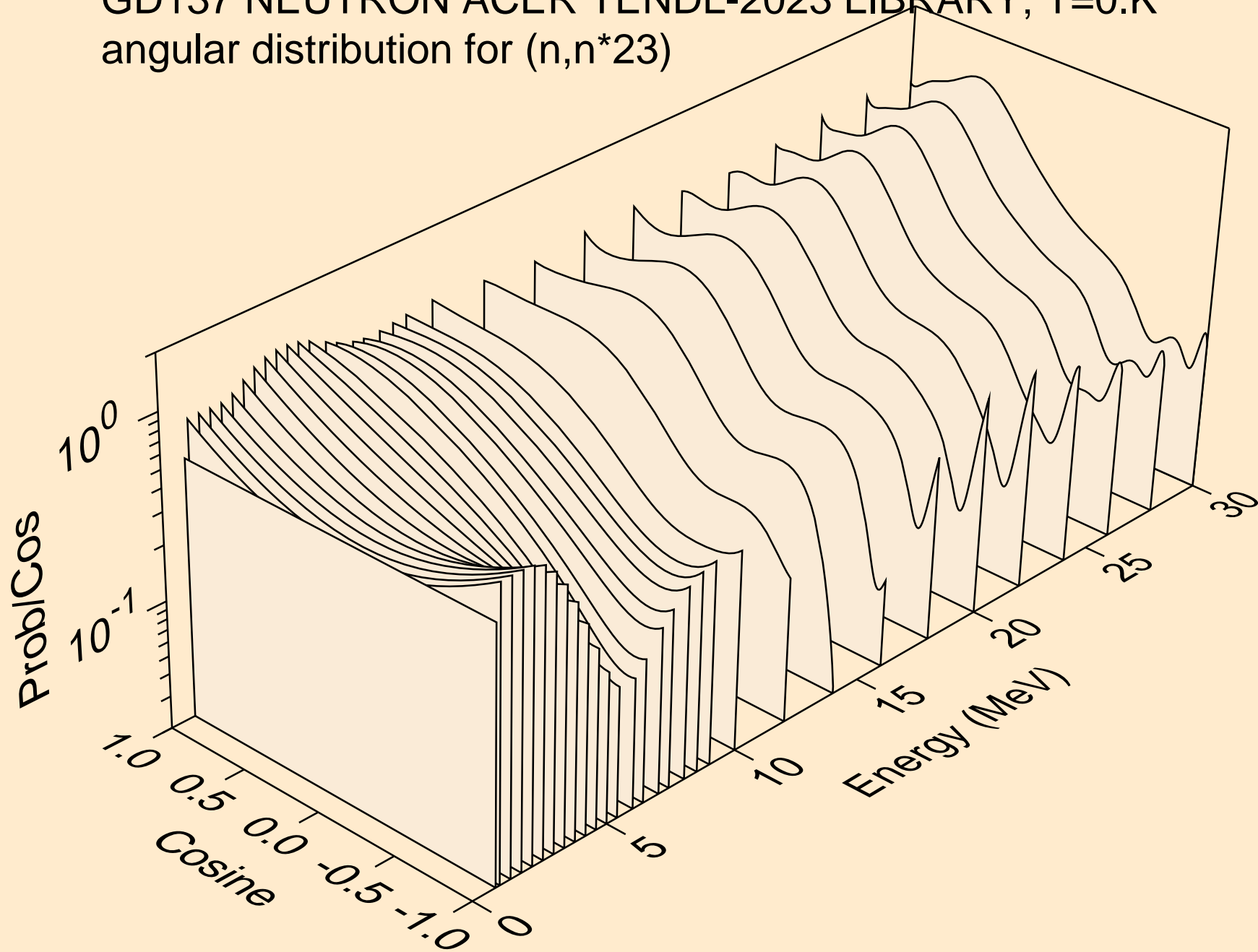
GD137 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*21)



GD137 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*22)

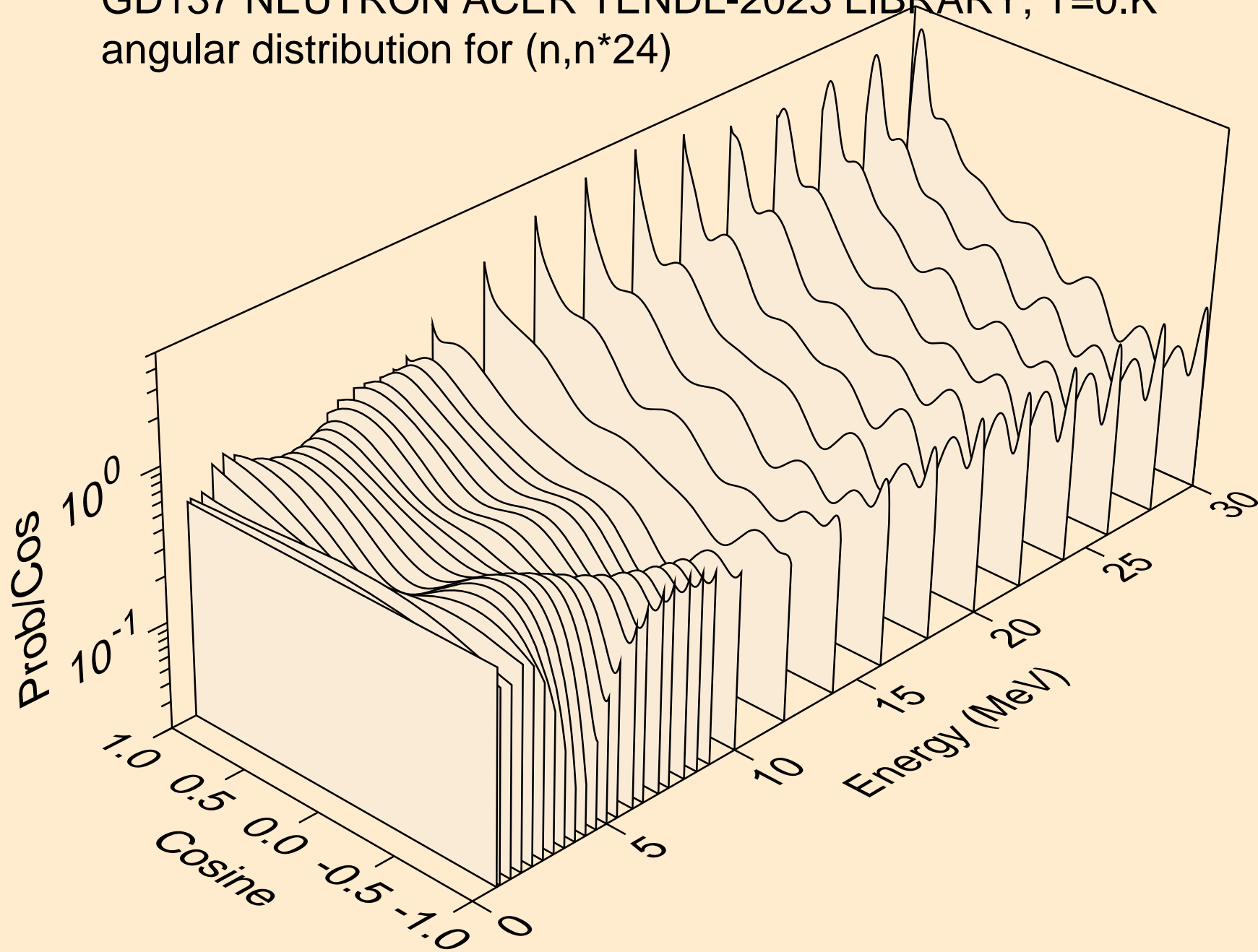


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angular distribution for (n,n\*23)

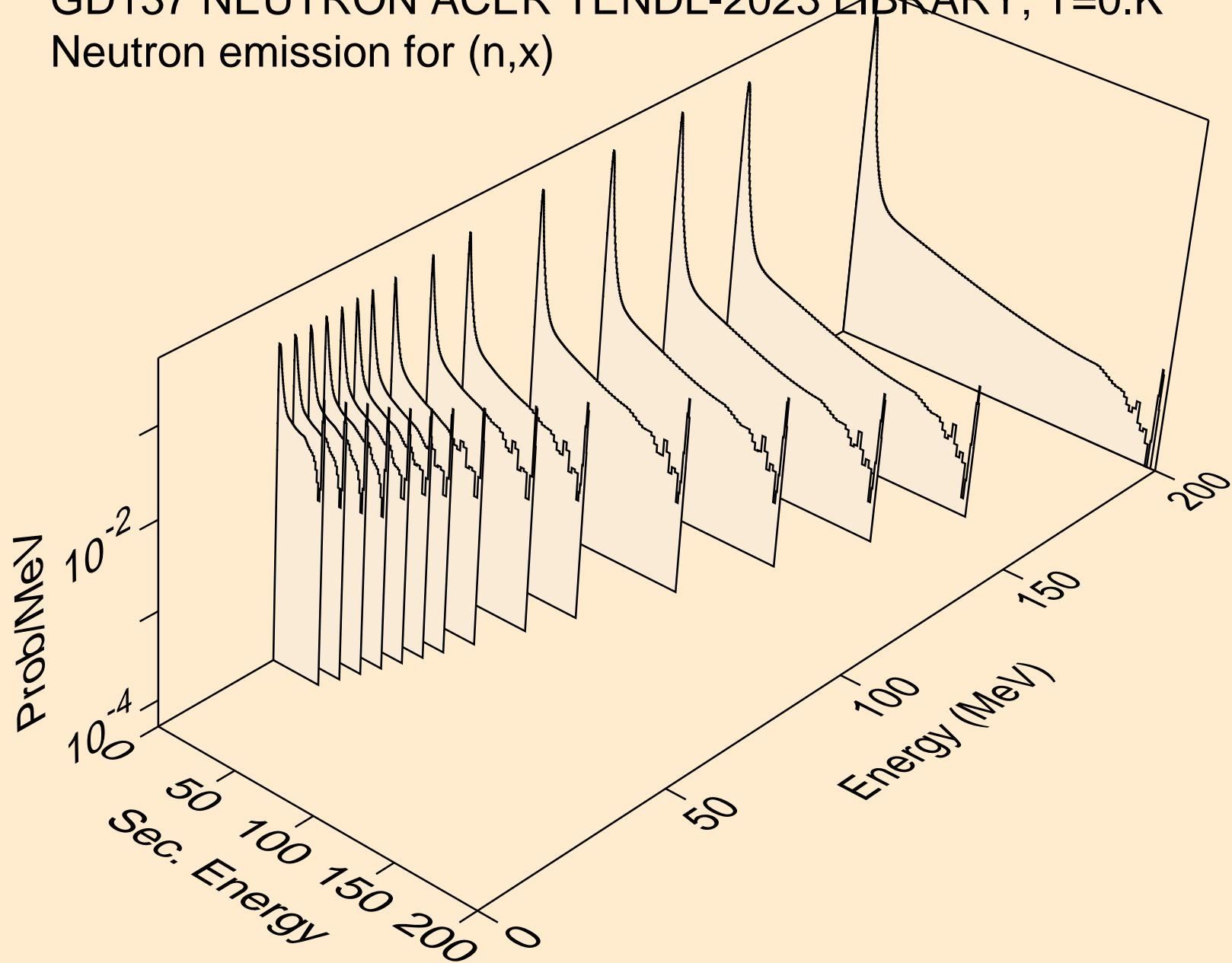




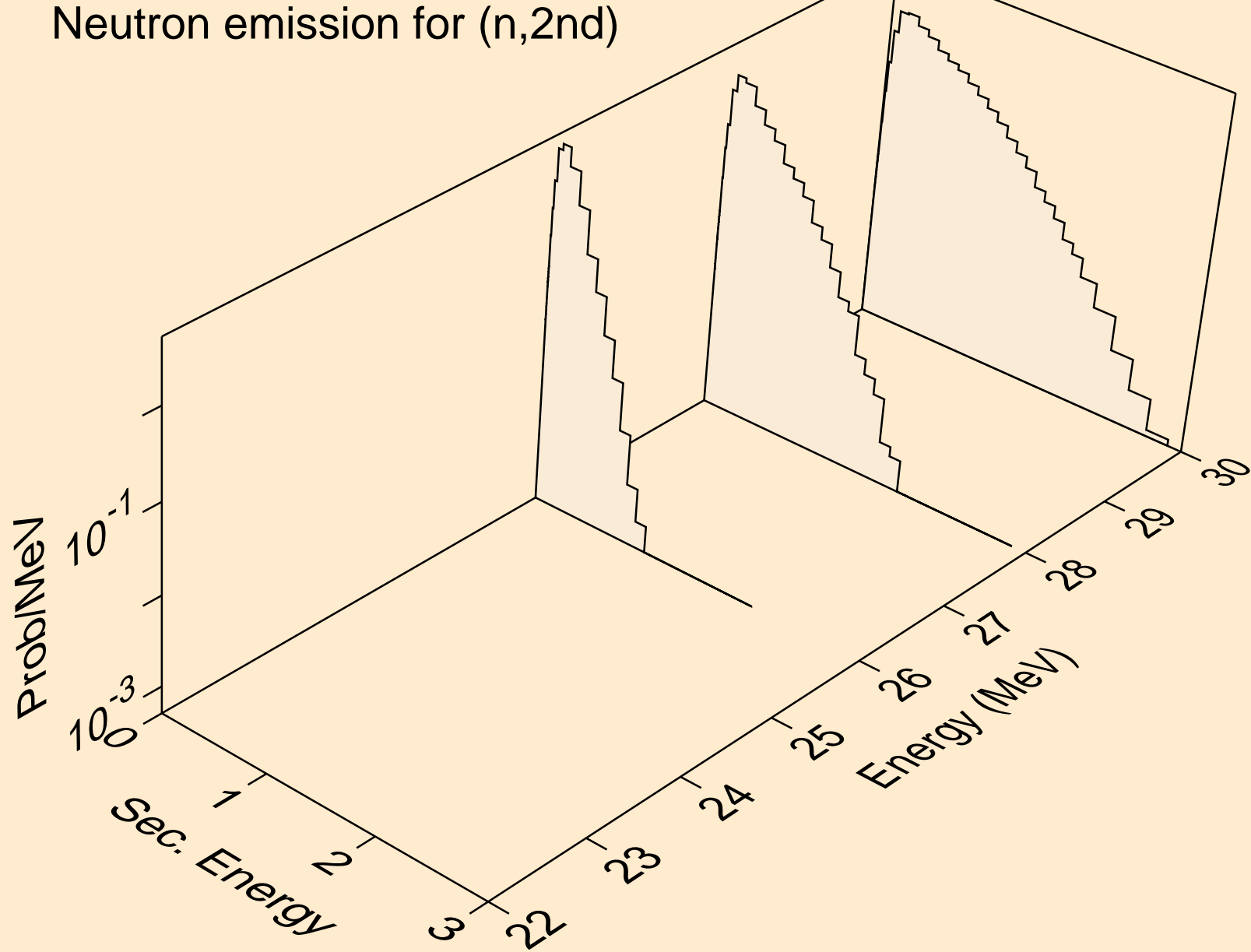
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angular distribution for (n,n\*24)



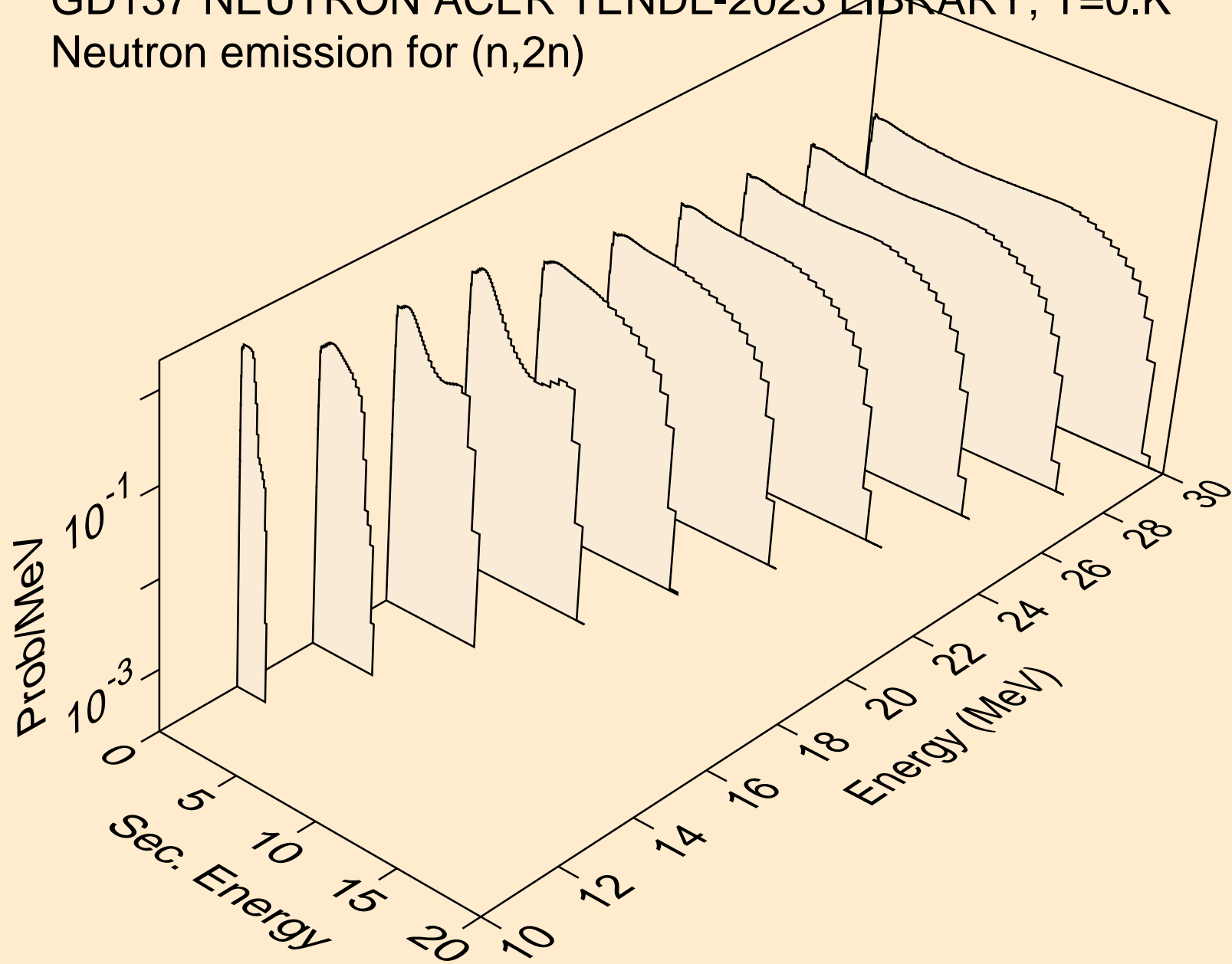
GD137 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,x)



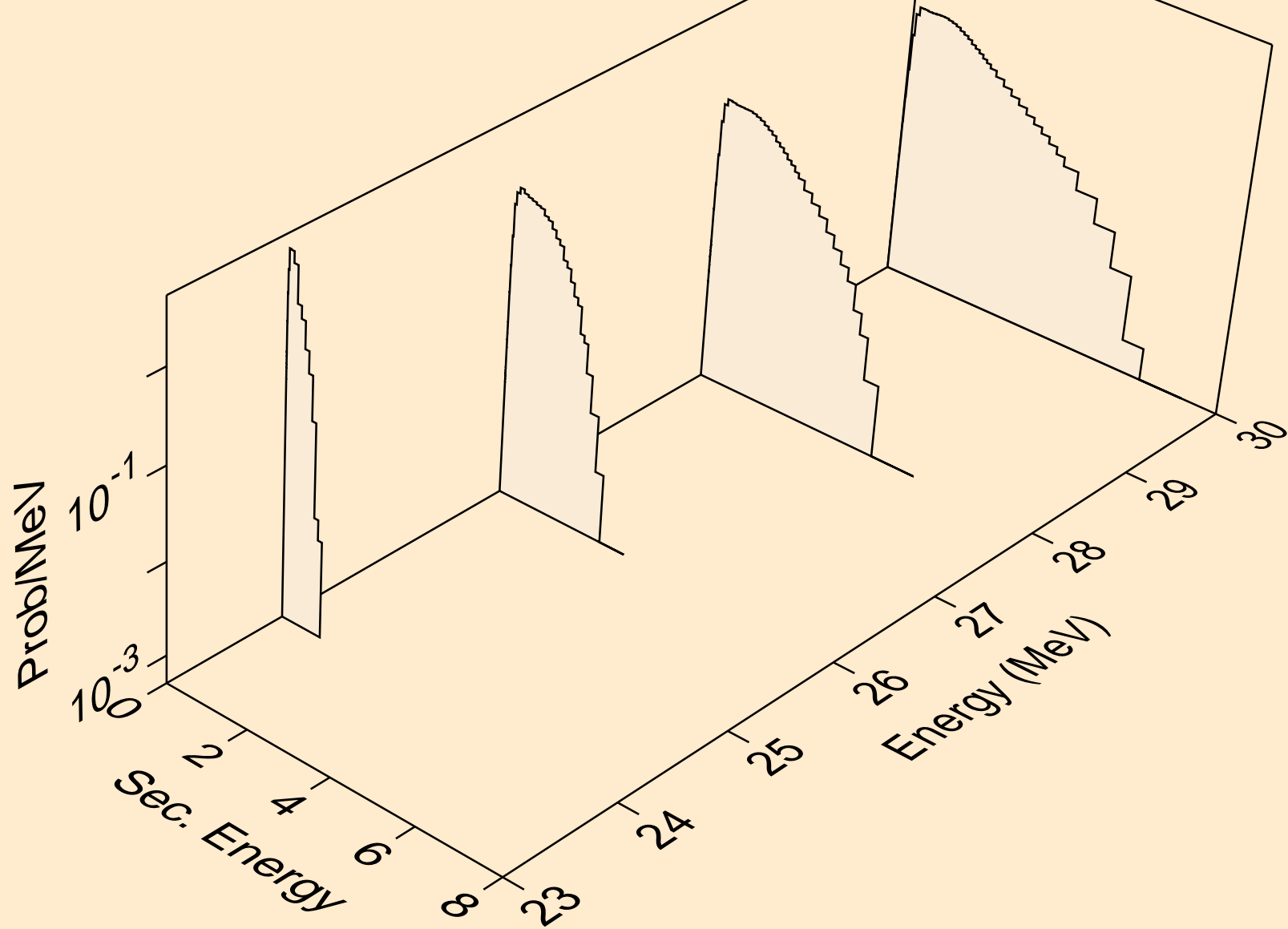
GD137 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,2nd)



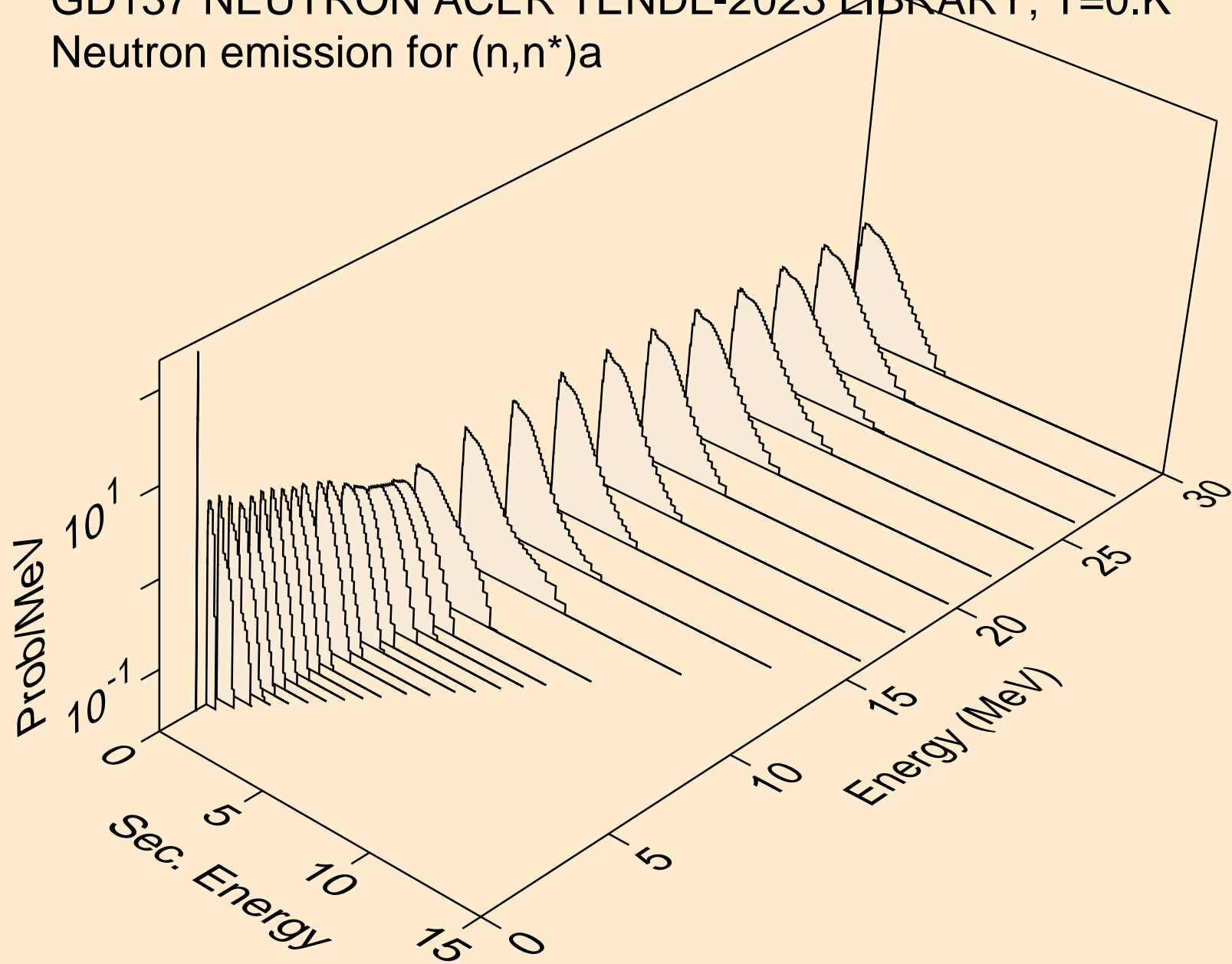
GD137 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,2n)



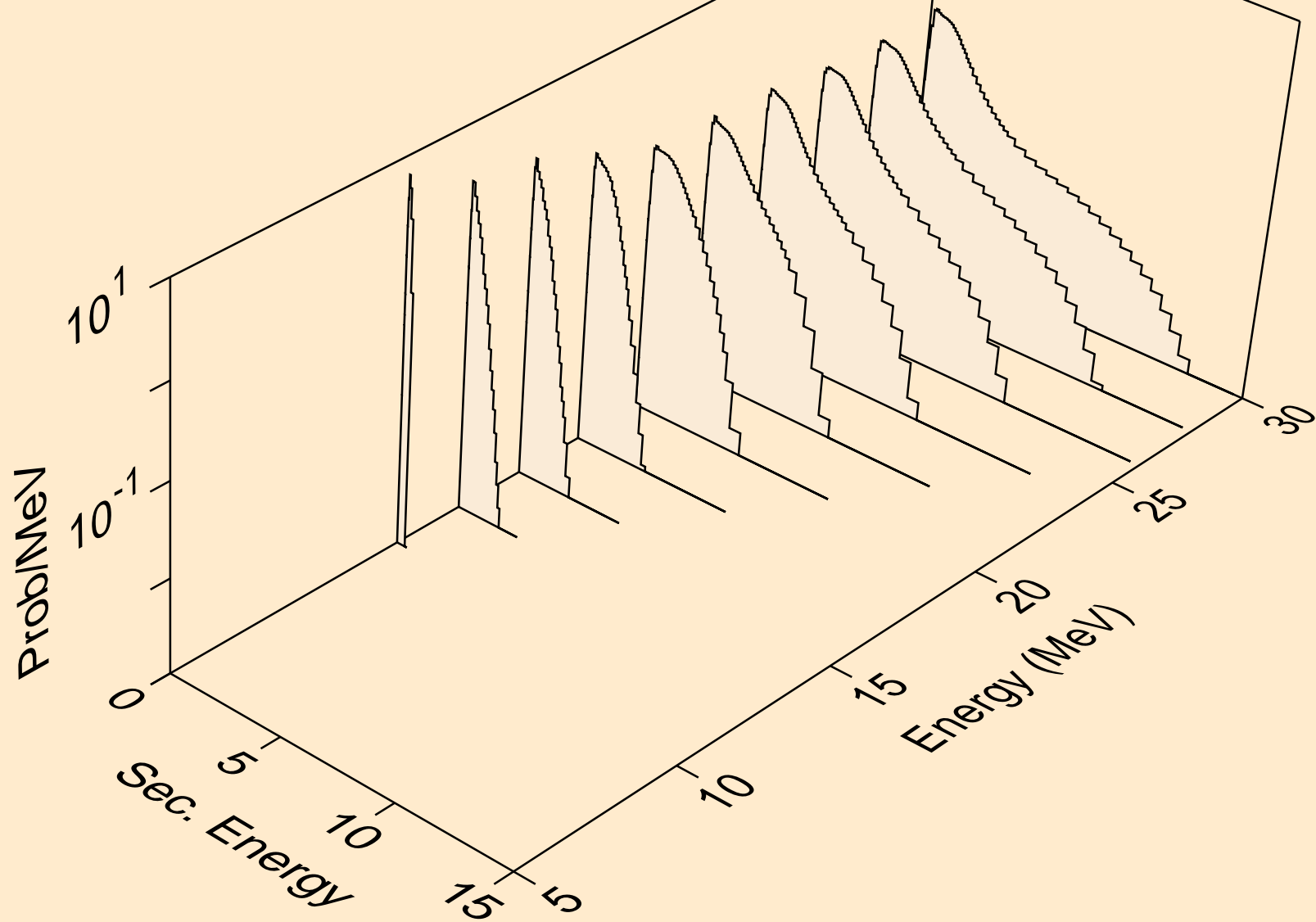
GD137 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,3n)



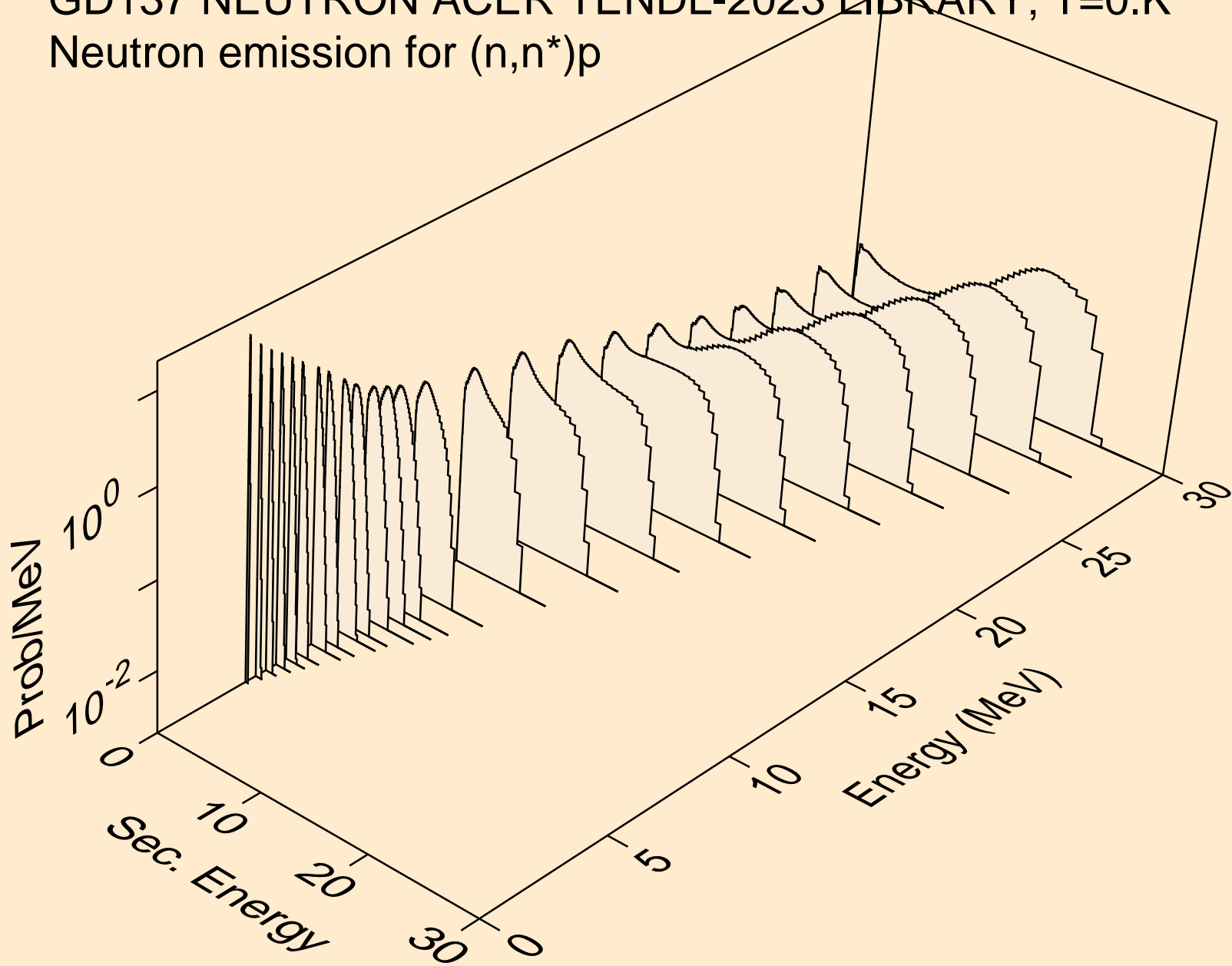
GD137 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,n\*)a



GD137 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,2n)a

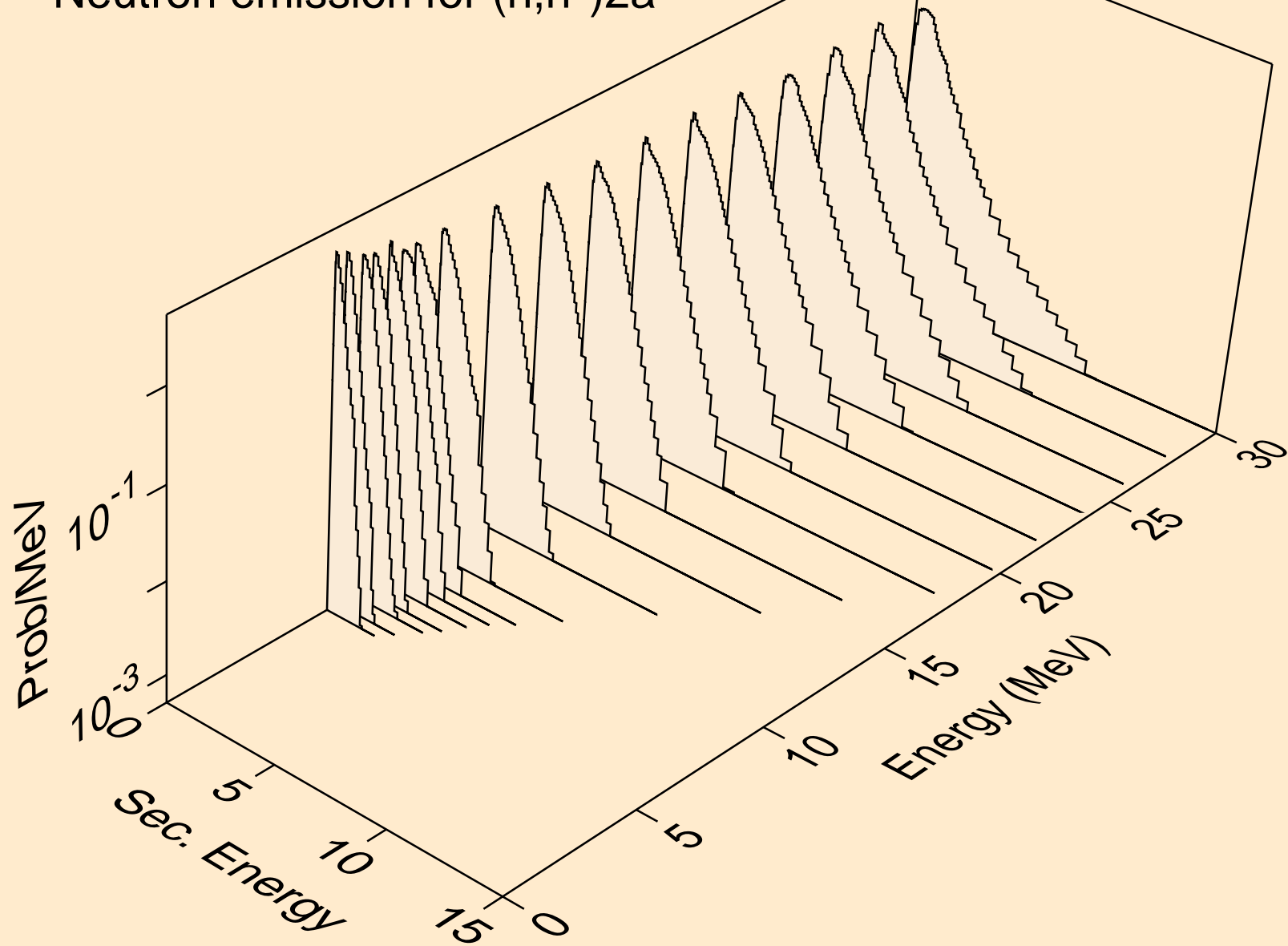


GD137 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,n\*)p

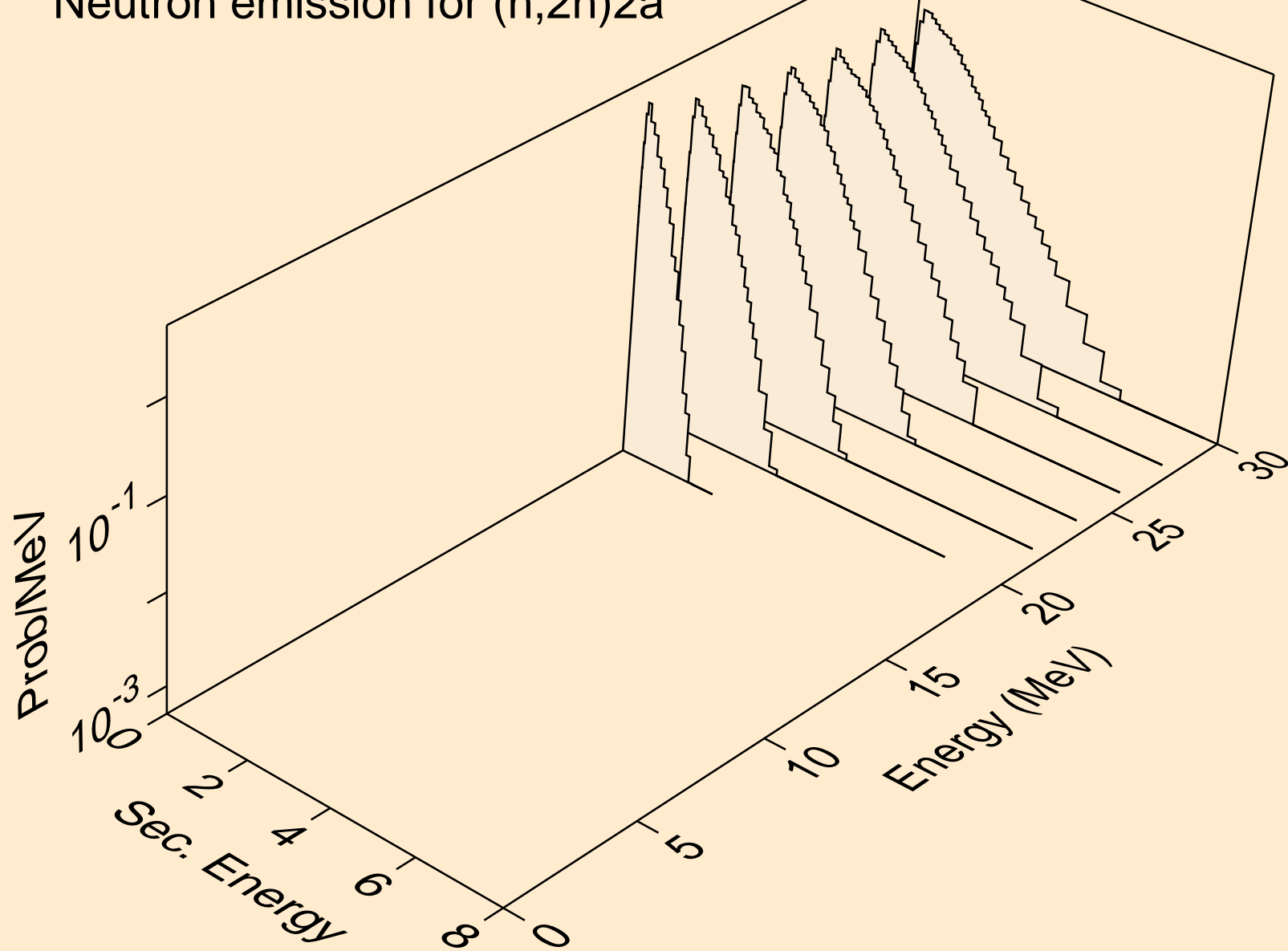




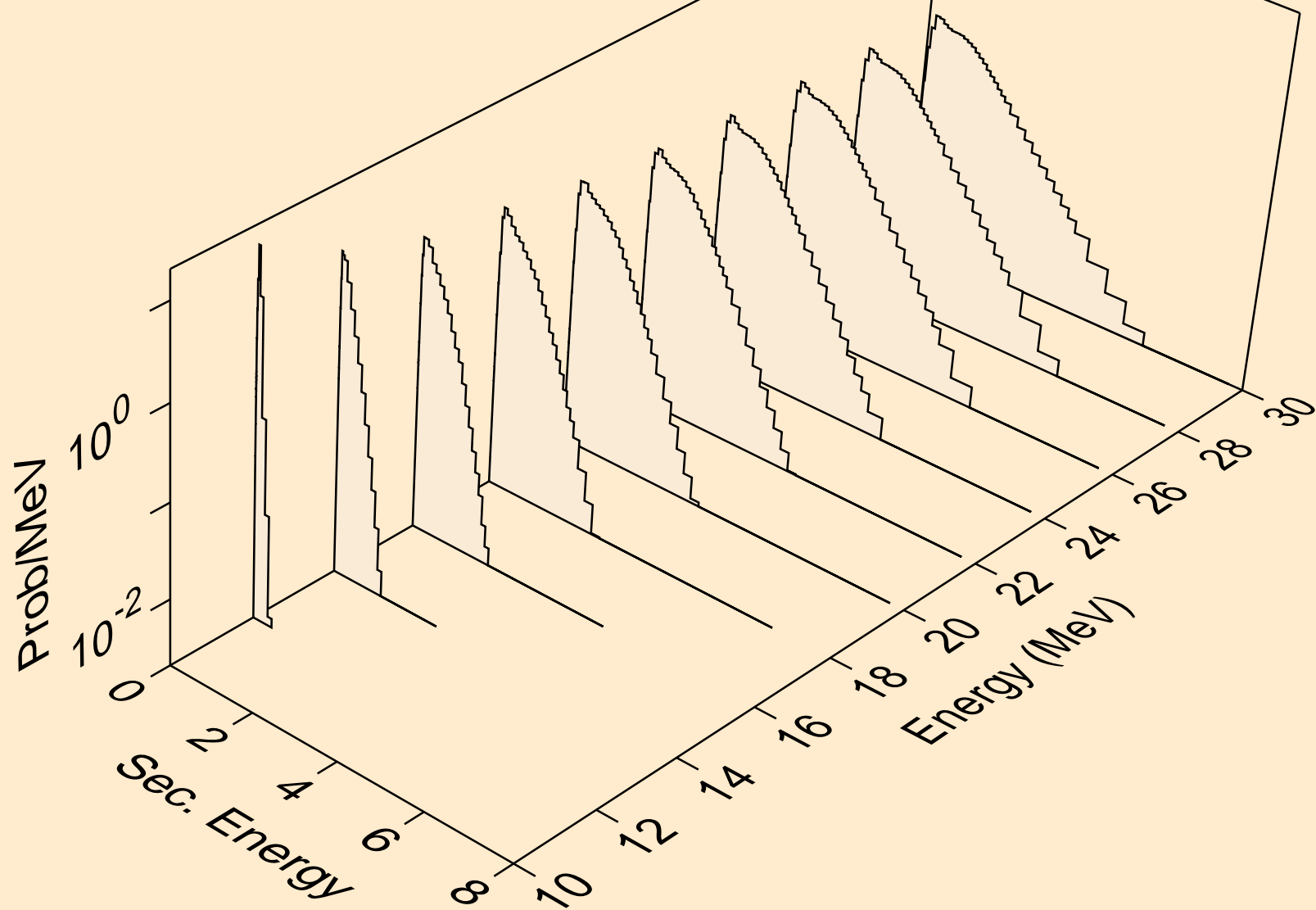
GD137 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,n\*)2a



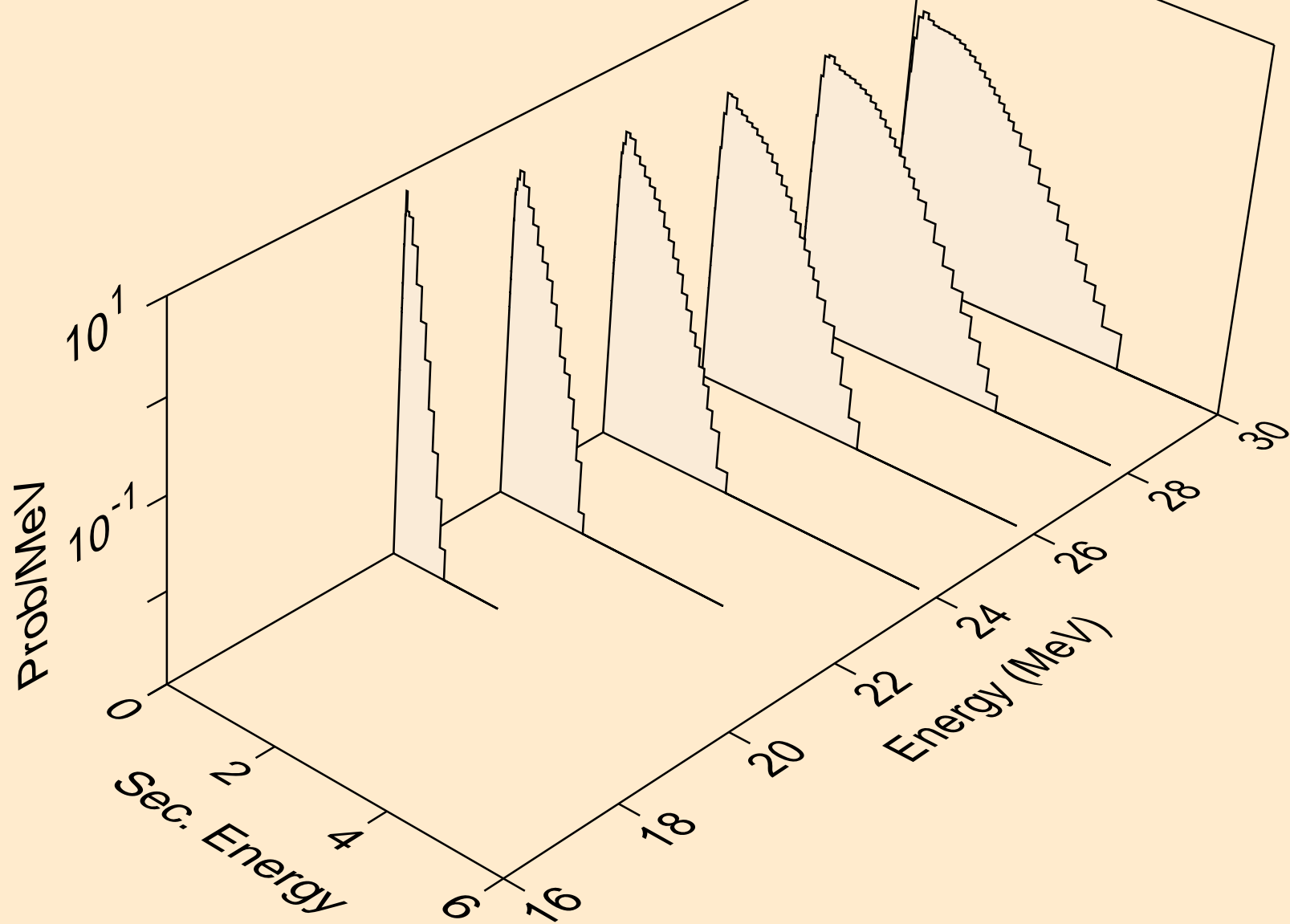
GD137 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,2n)2a



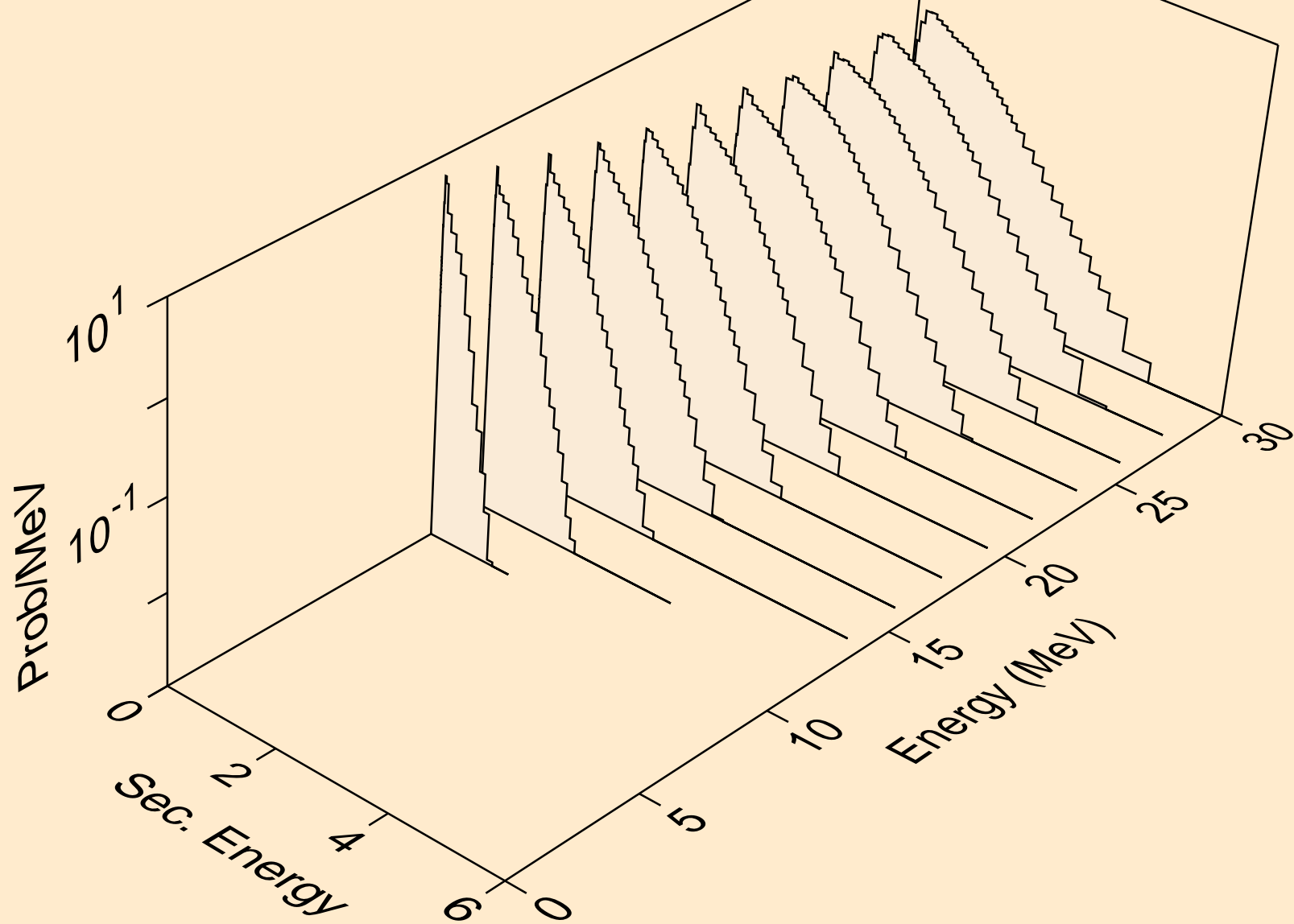
GD137 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,n\*)d



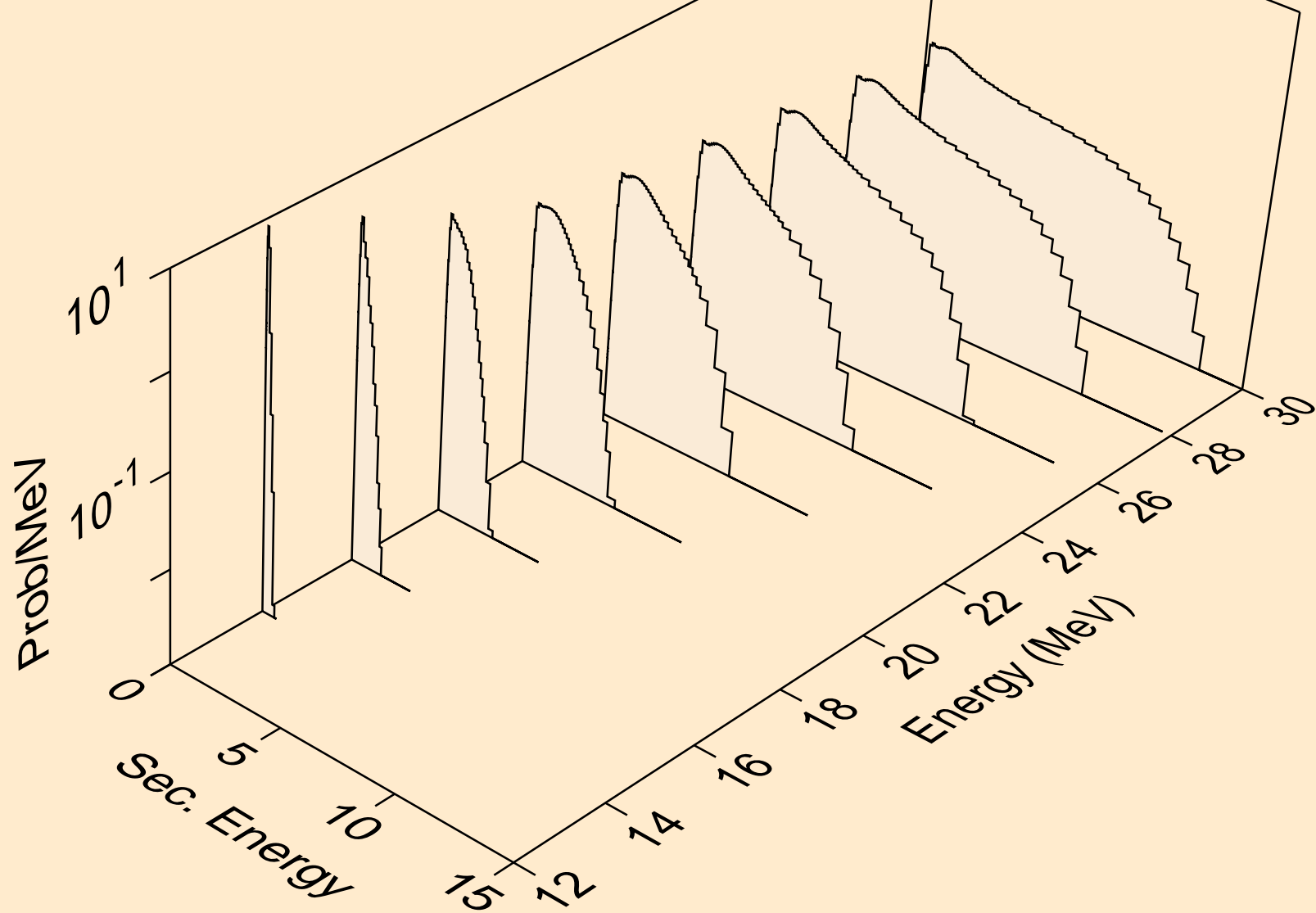
GD137 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,n\*)t



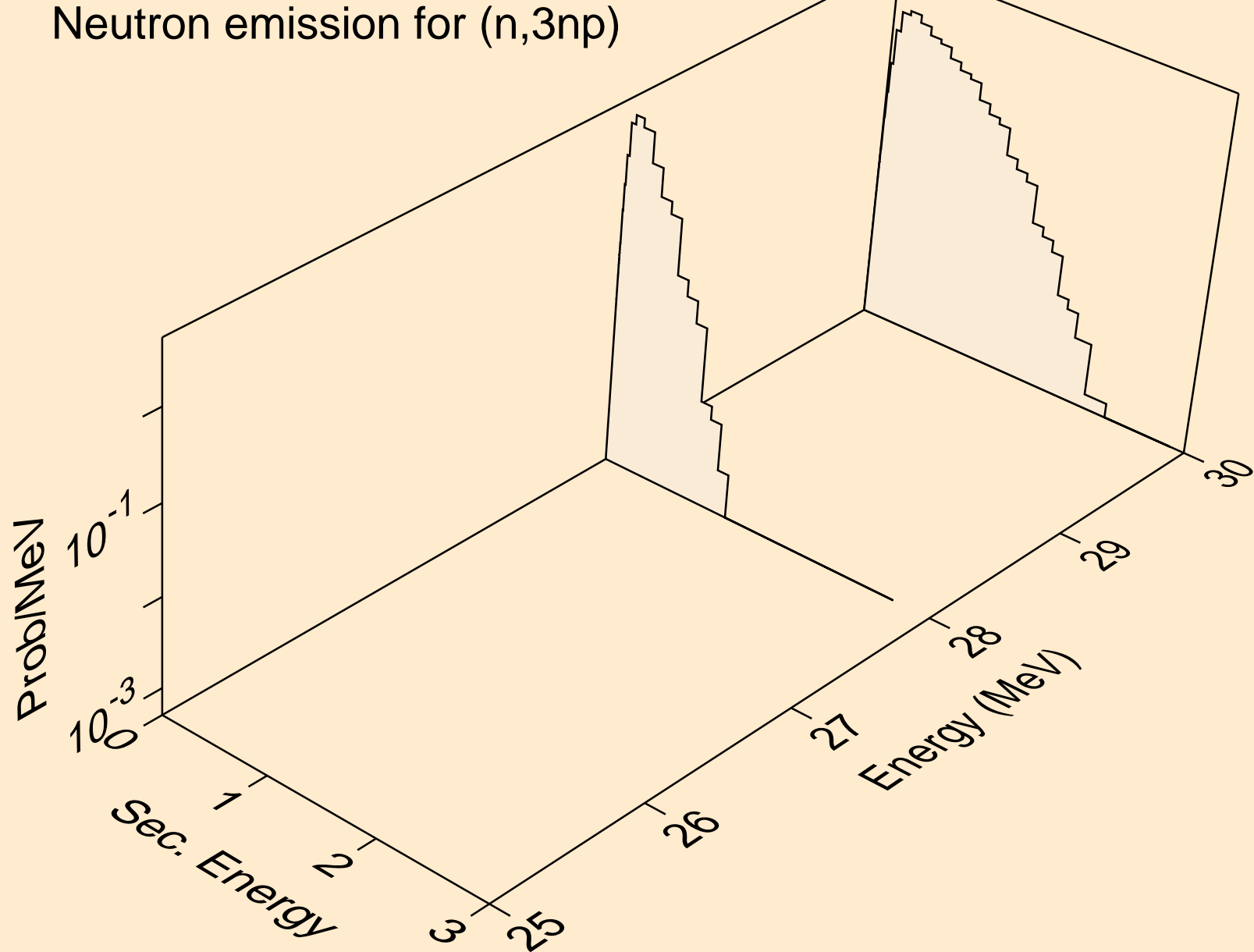
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Neutron emission for (n,n\*)he3



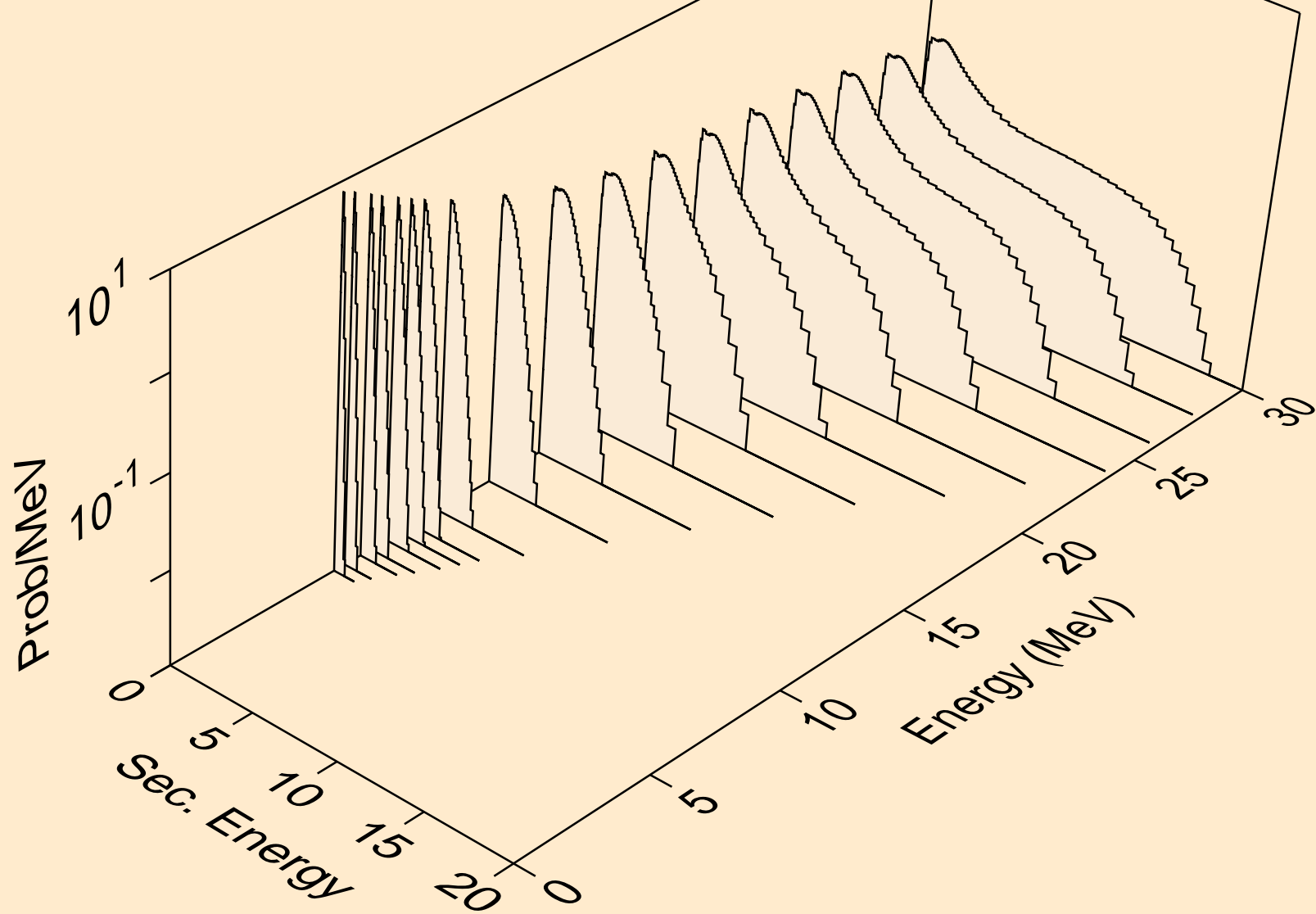
GD137 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,2np)



GD137 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,3np)

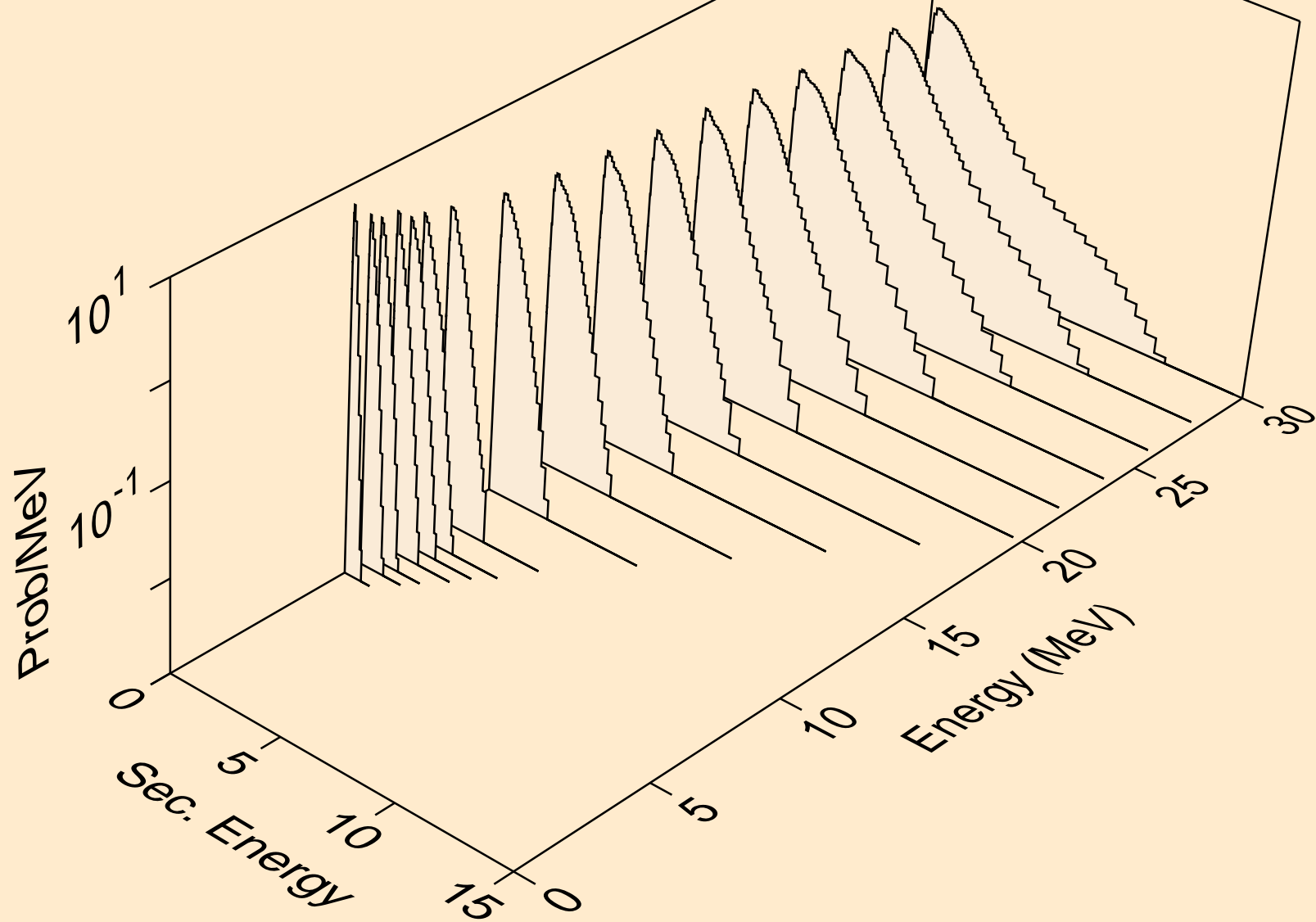


GD137 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,n2p)

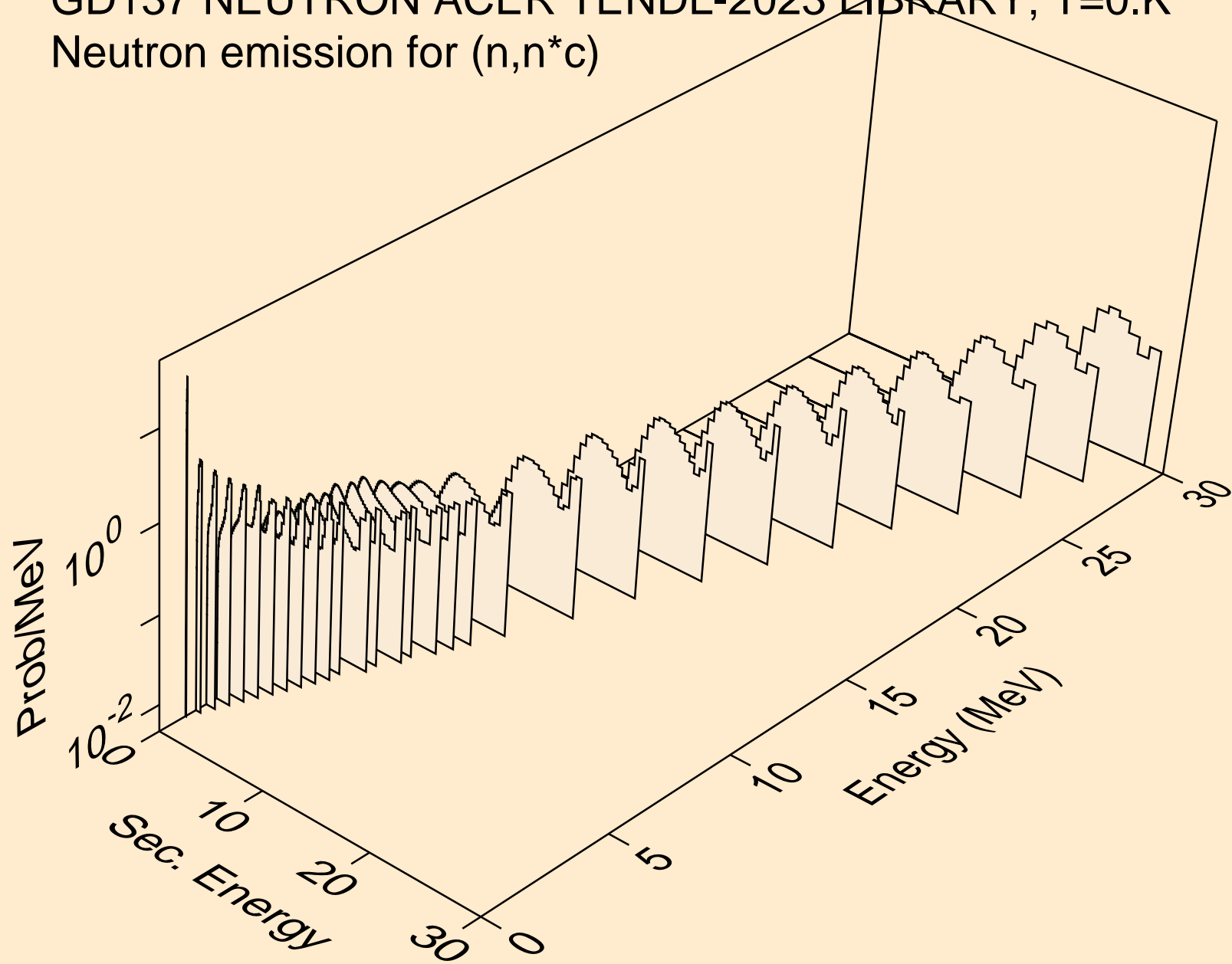




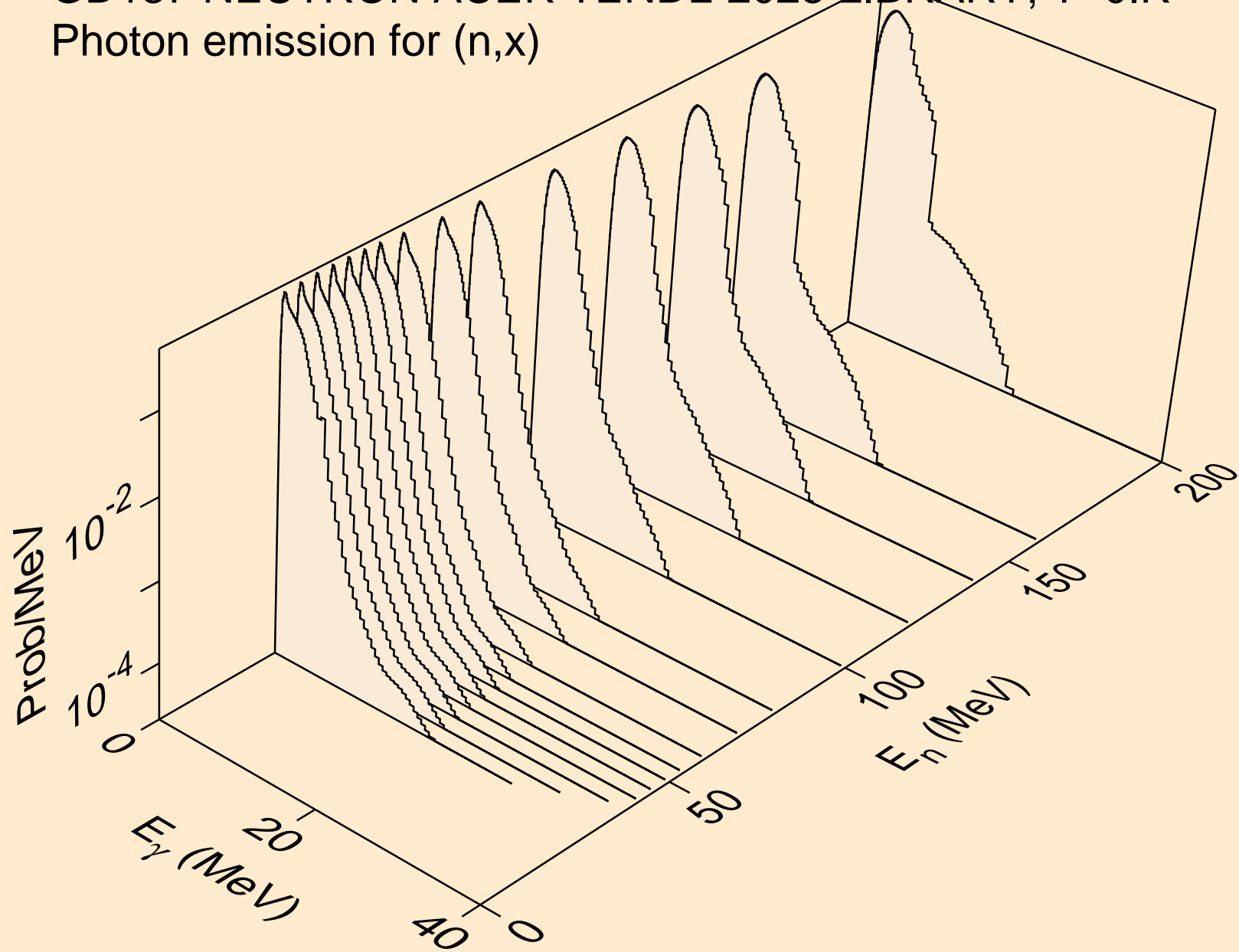
GD137 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,npa)



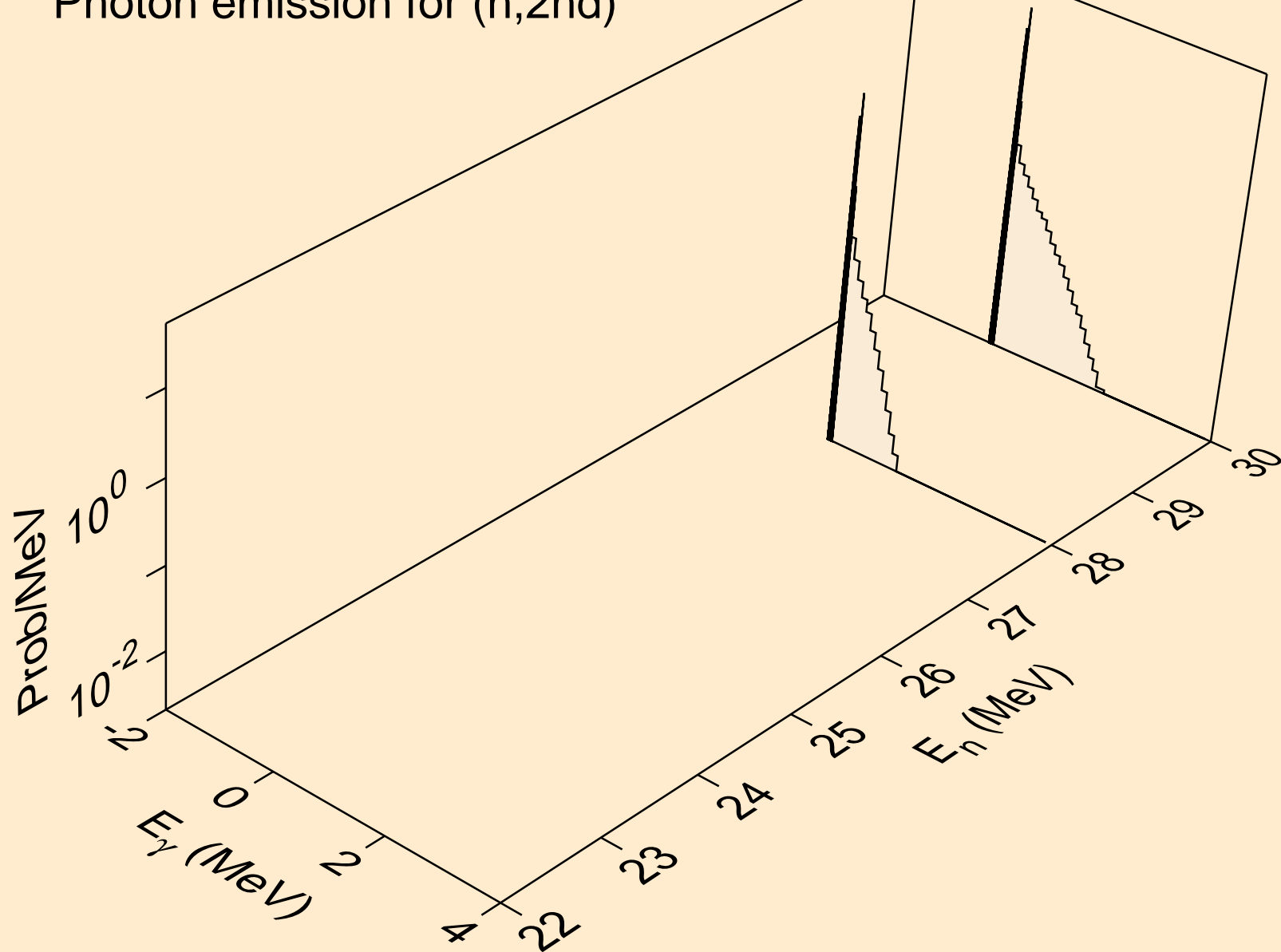
GD137 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,n\*c)



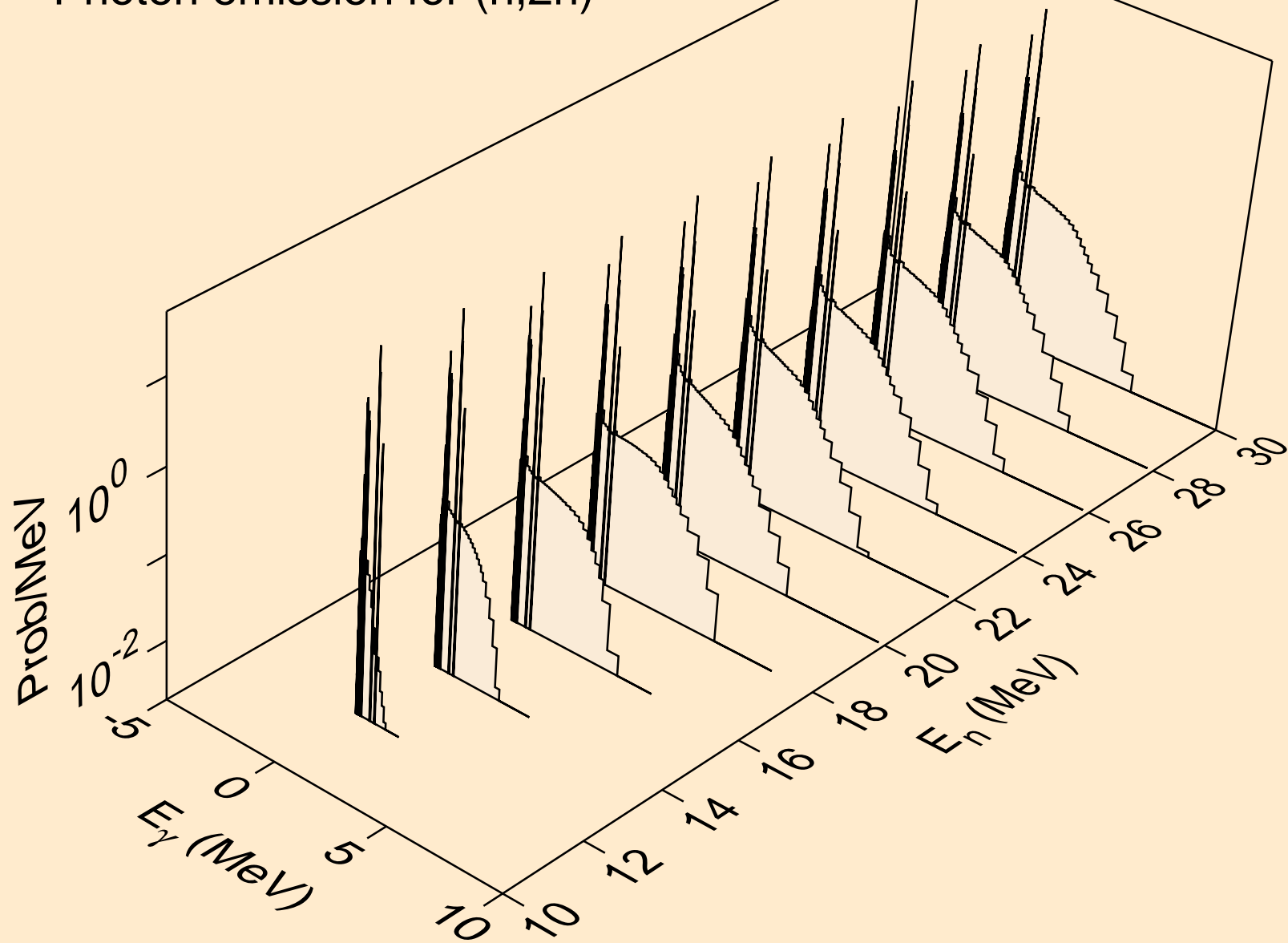
GD137 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,x)



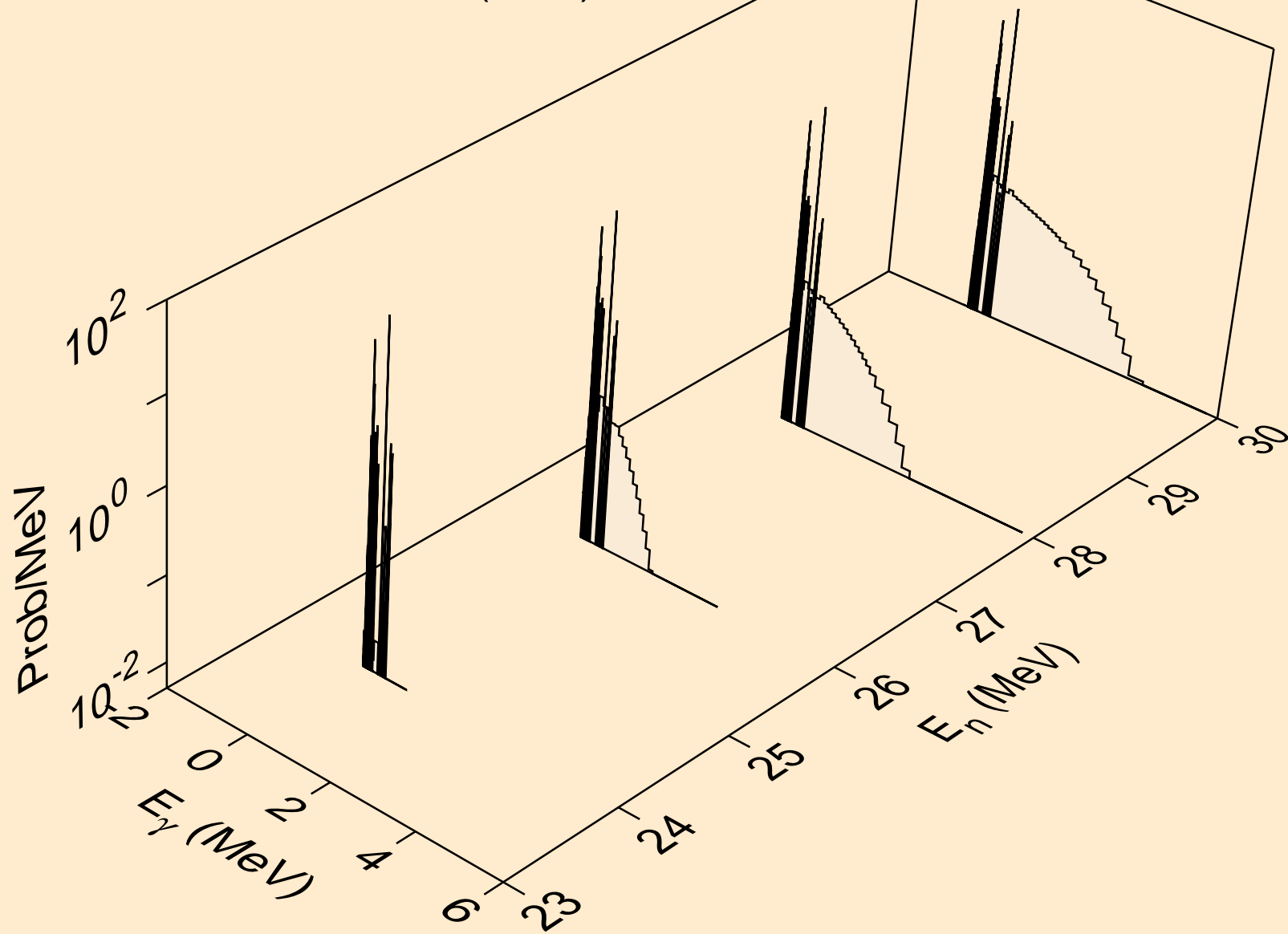
GD137 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2nd)



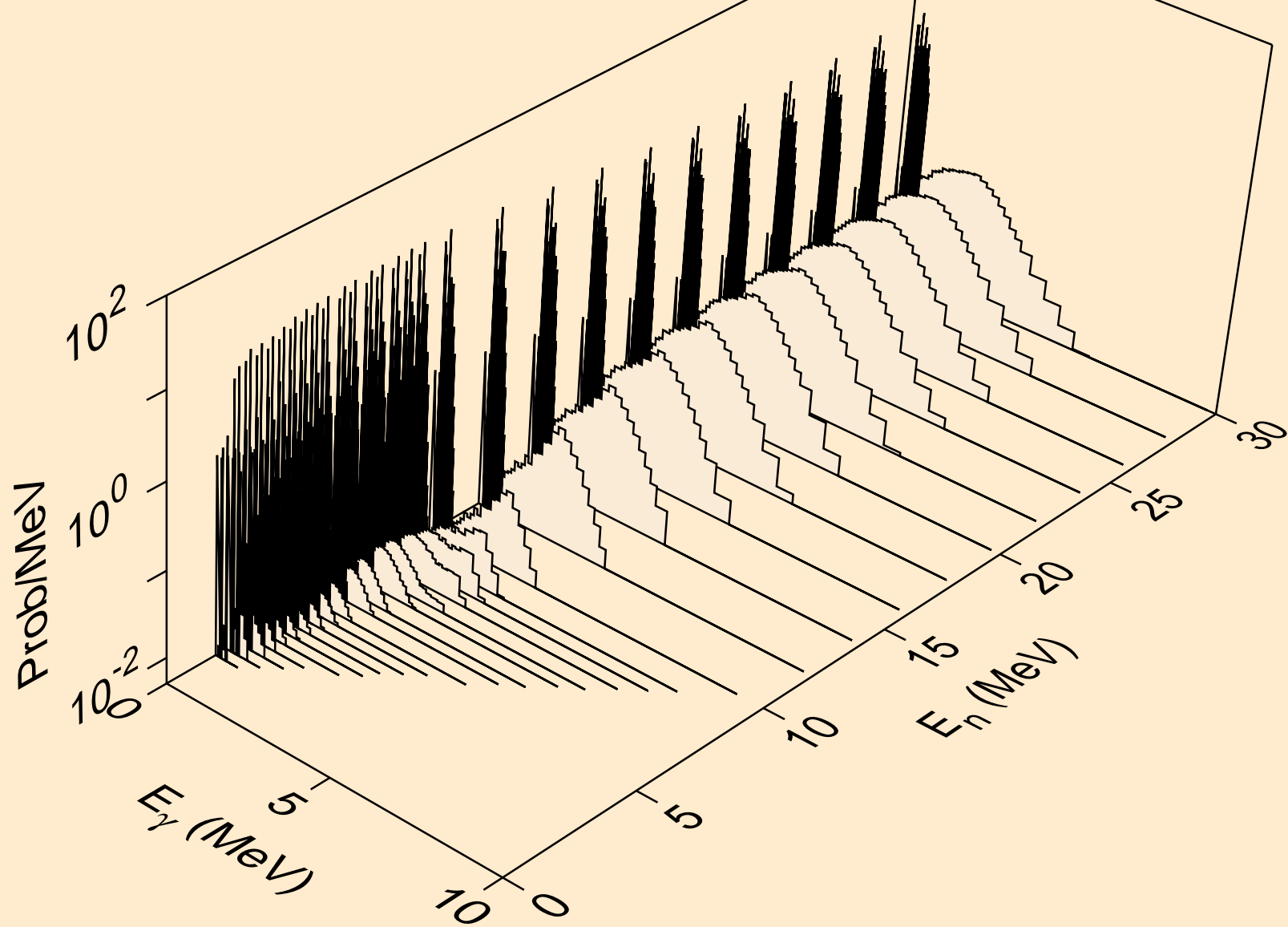
GD137 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2n)



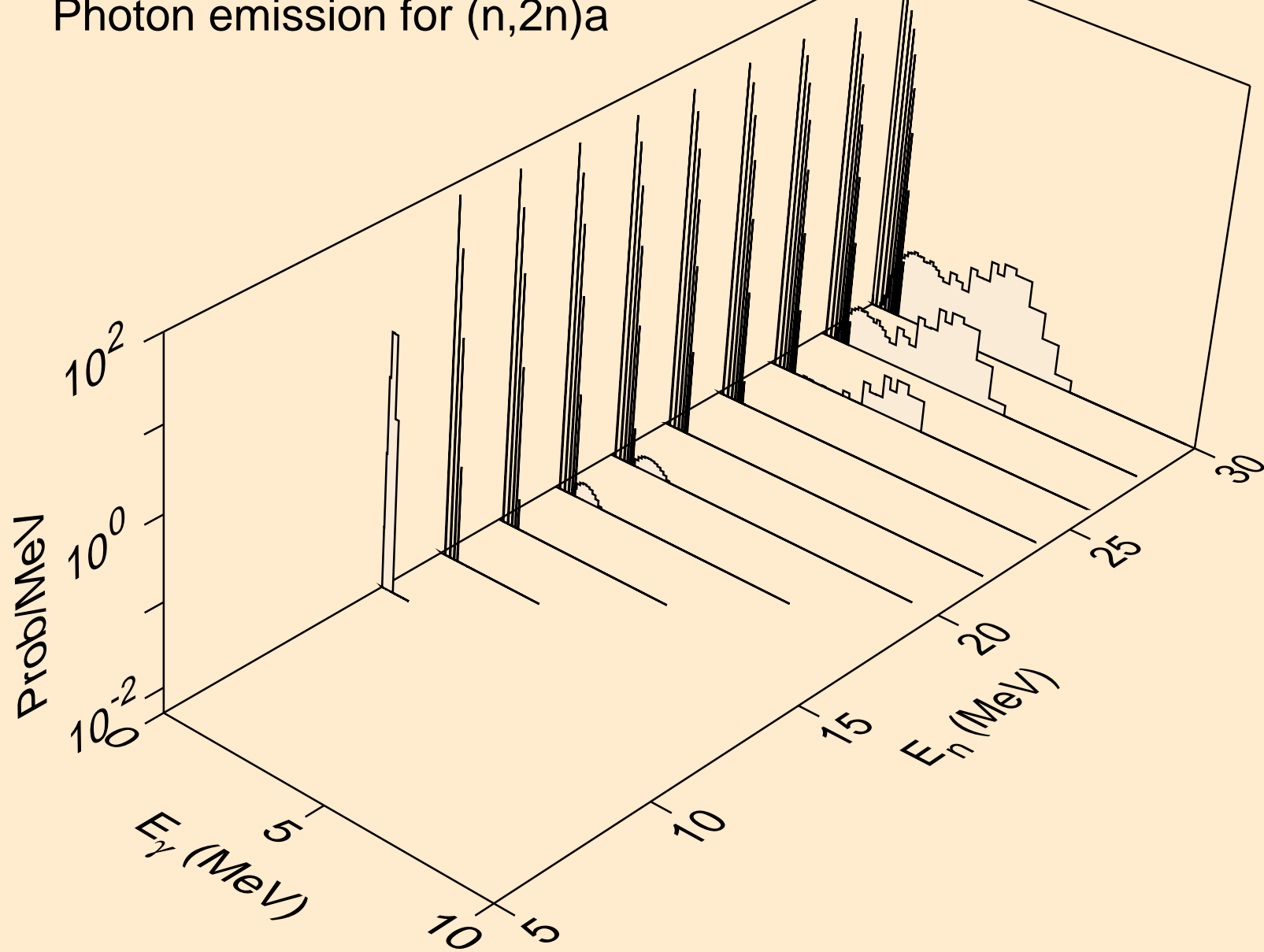
GD137 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,3n)



GD137 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)a

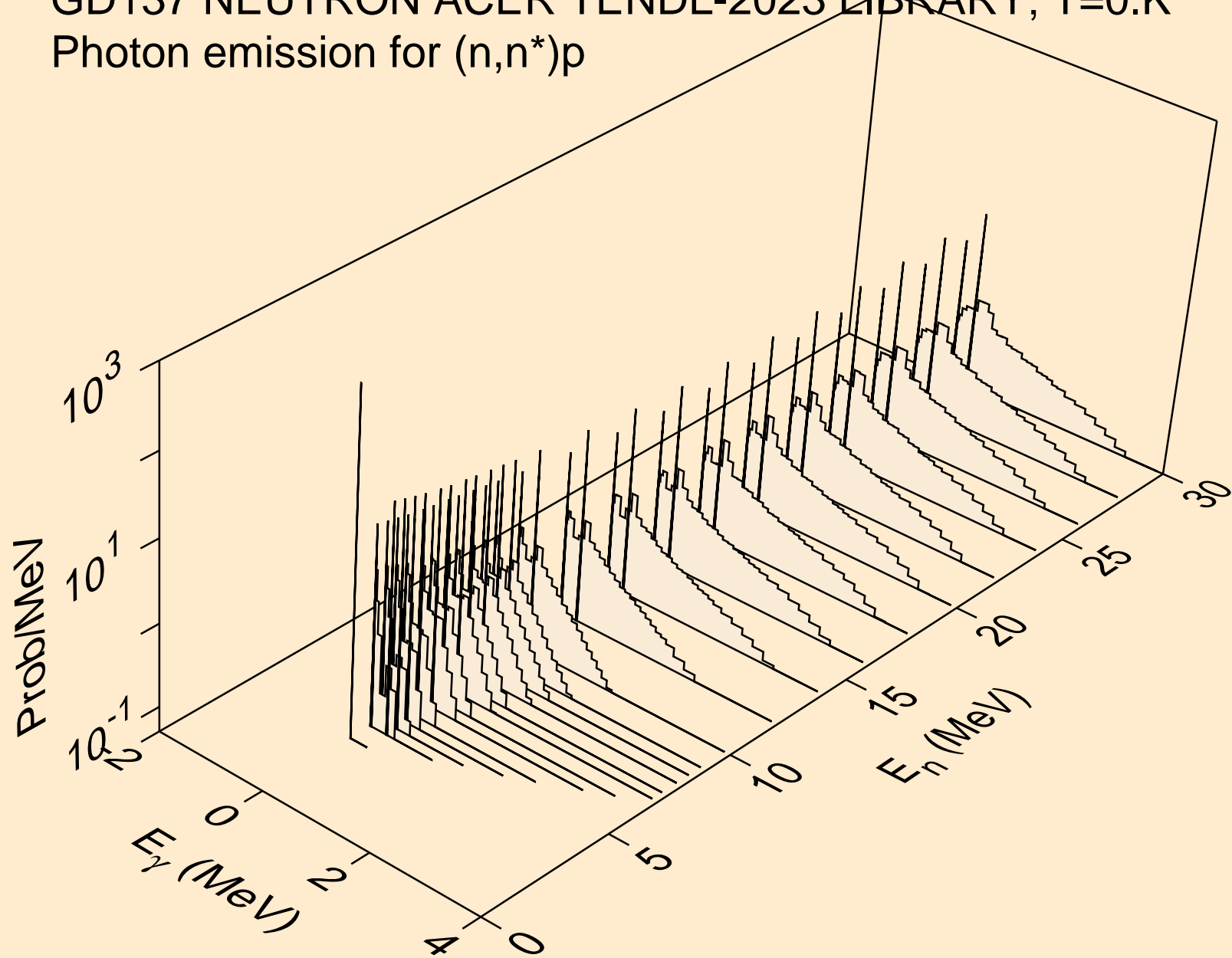


GD137 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2n)a

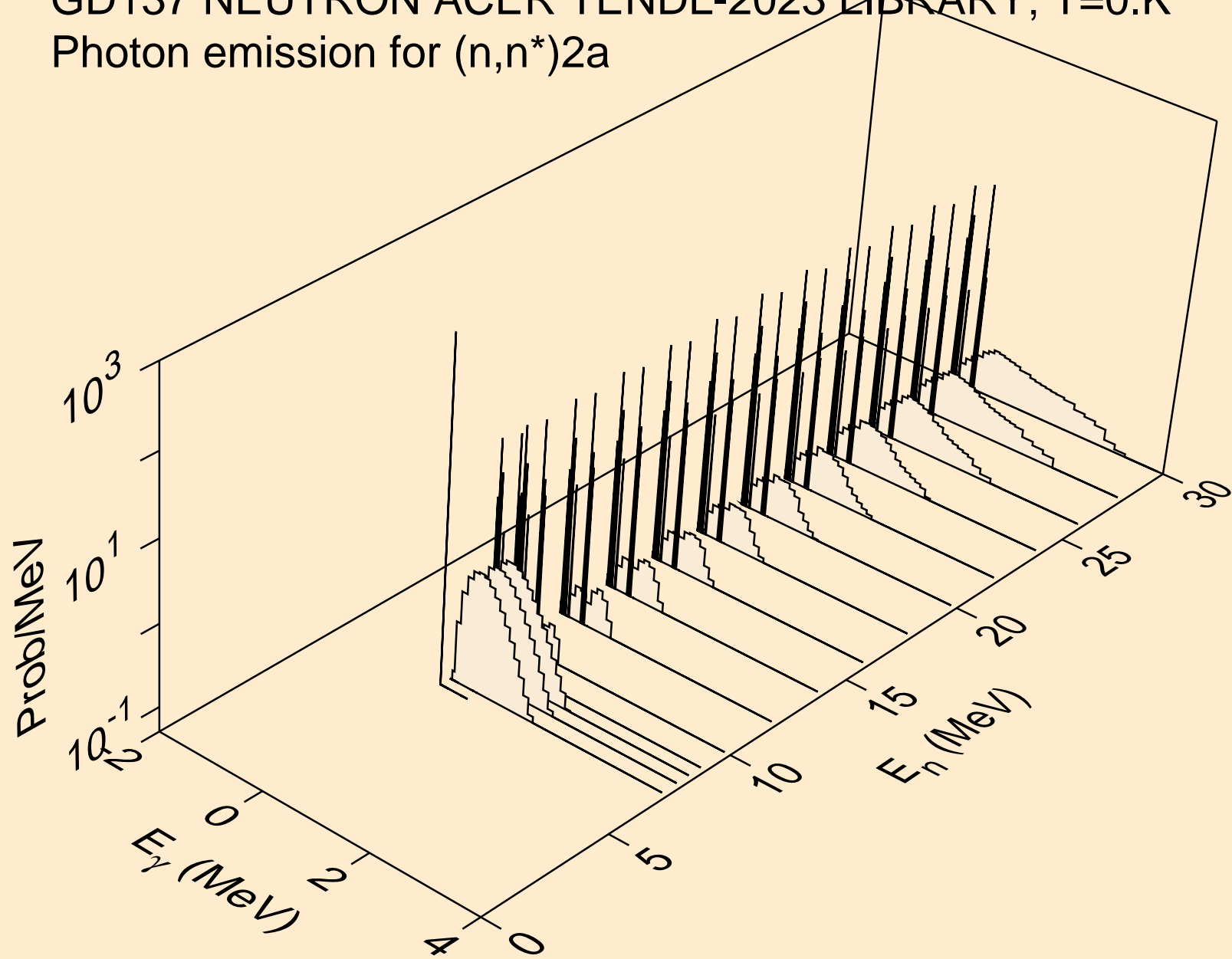




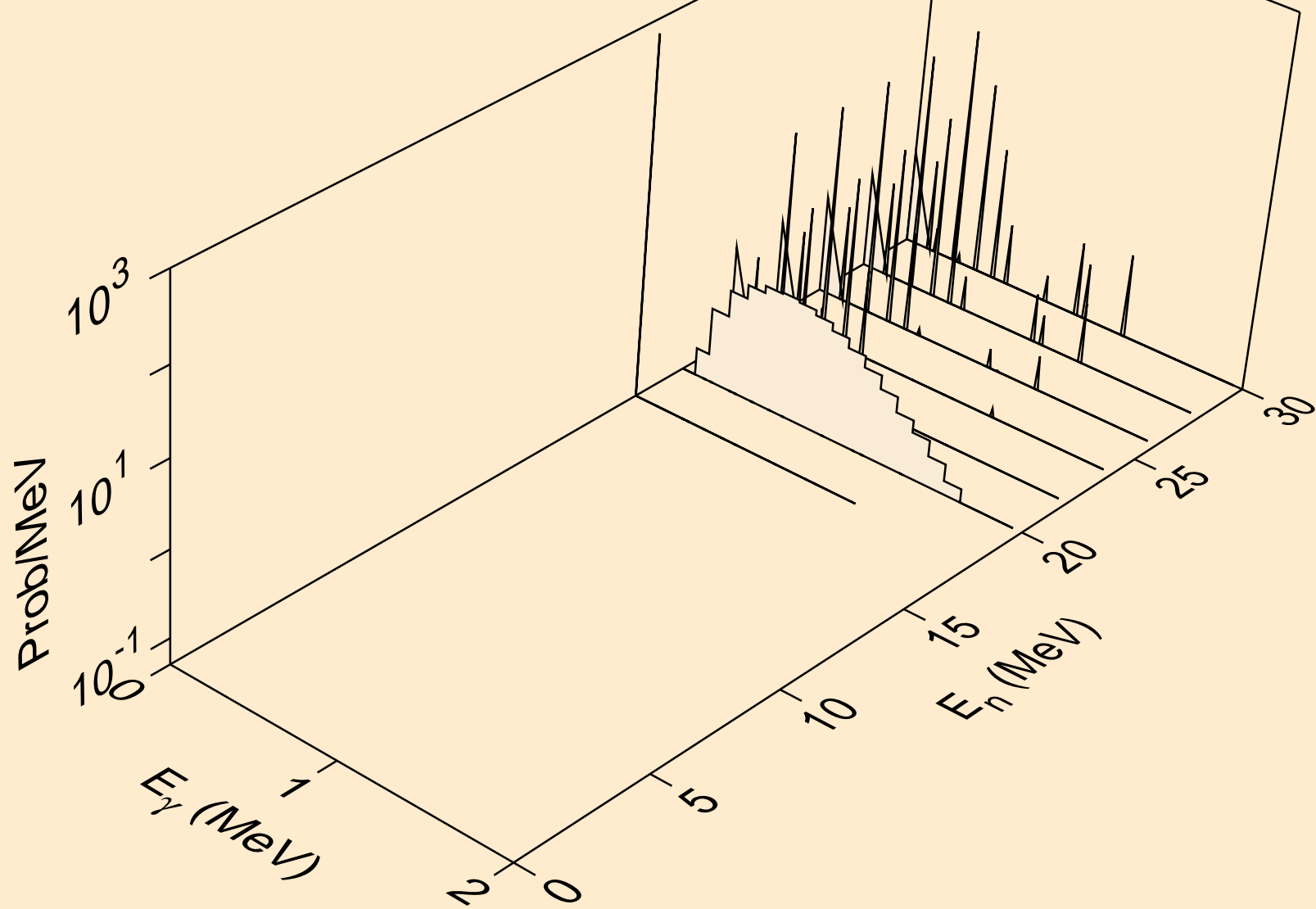
GD137 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)p



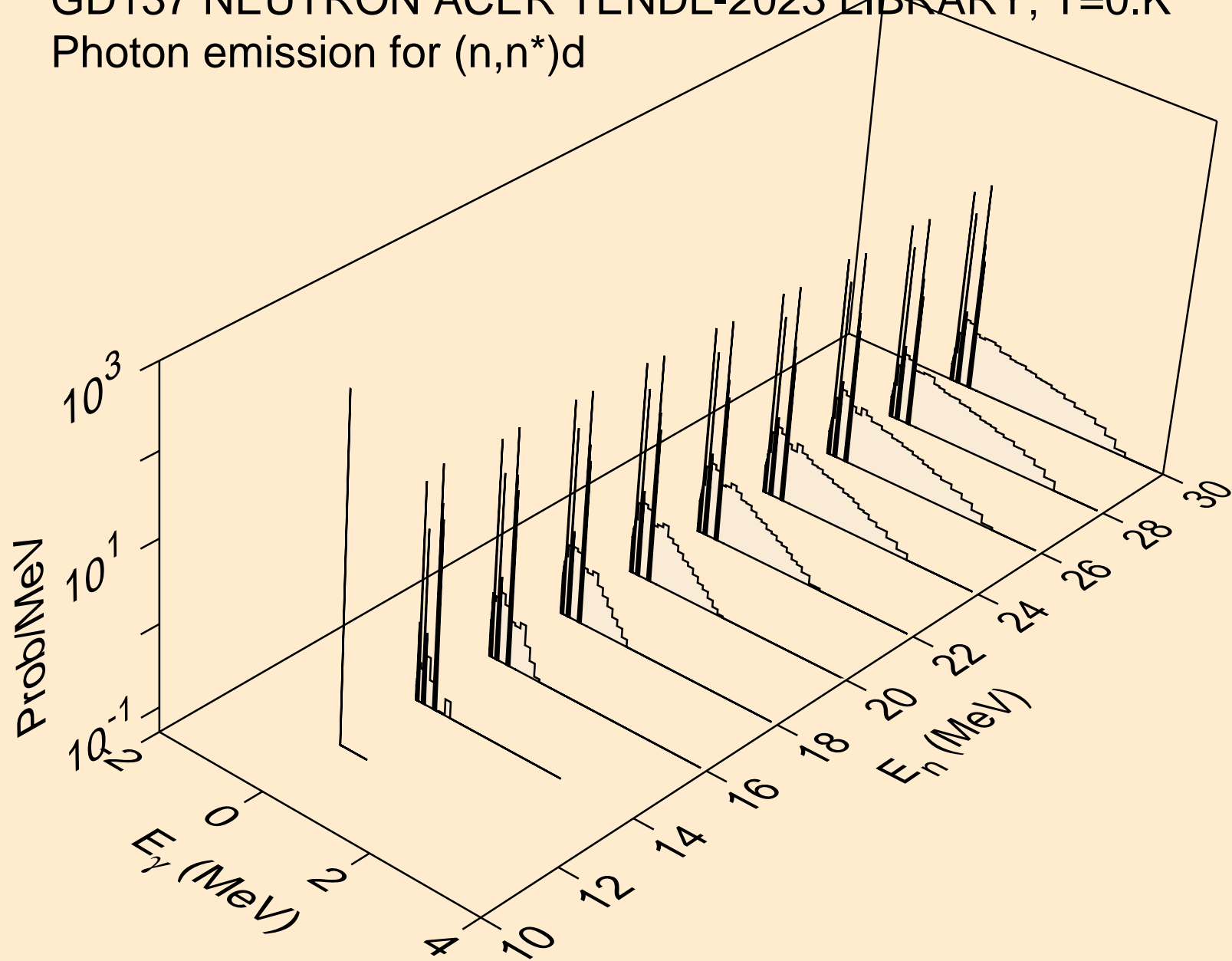
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Photon emission for (n,n\*)2a



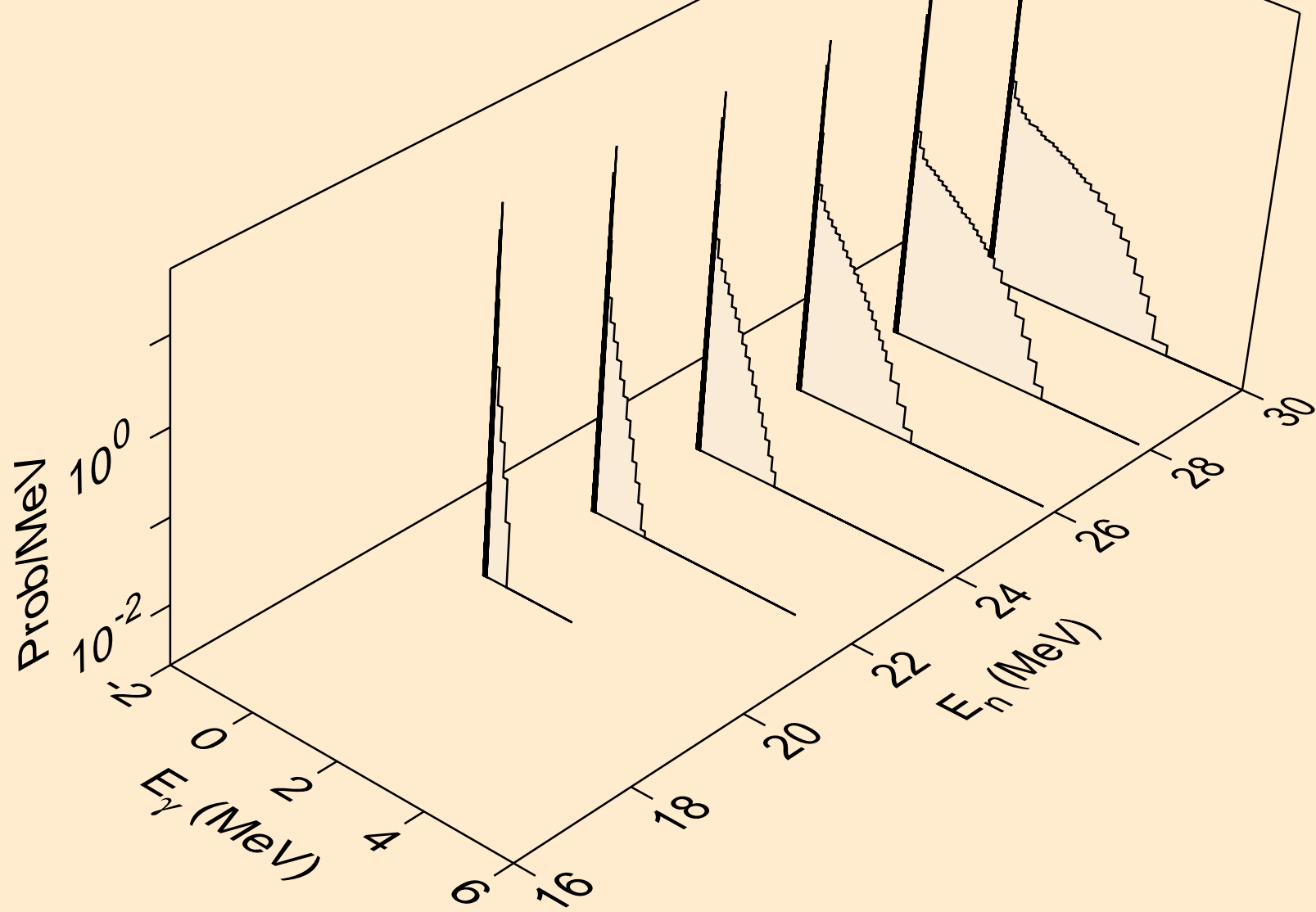
GD137 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2n)2a



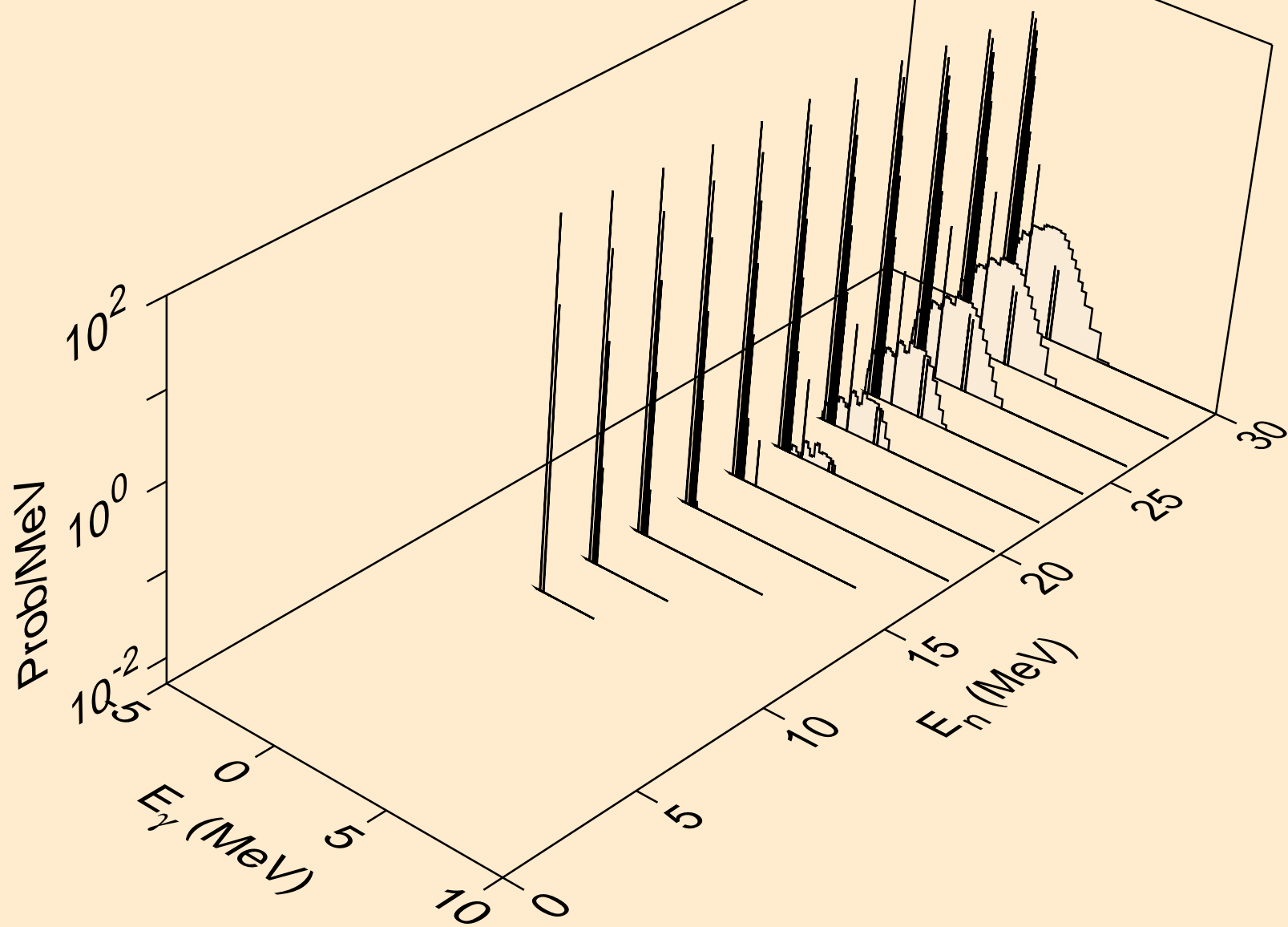
GD137 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)d



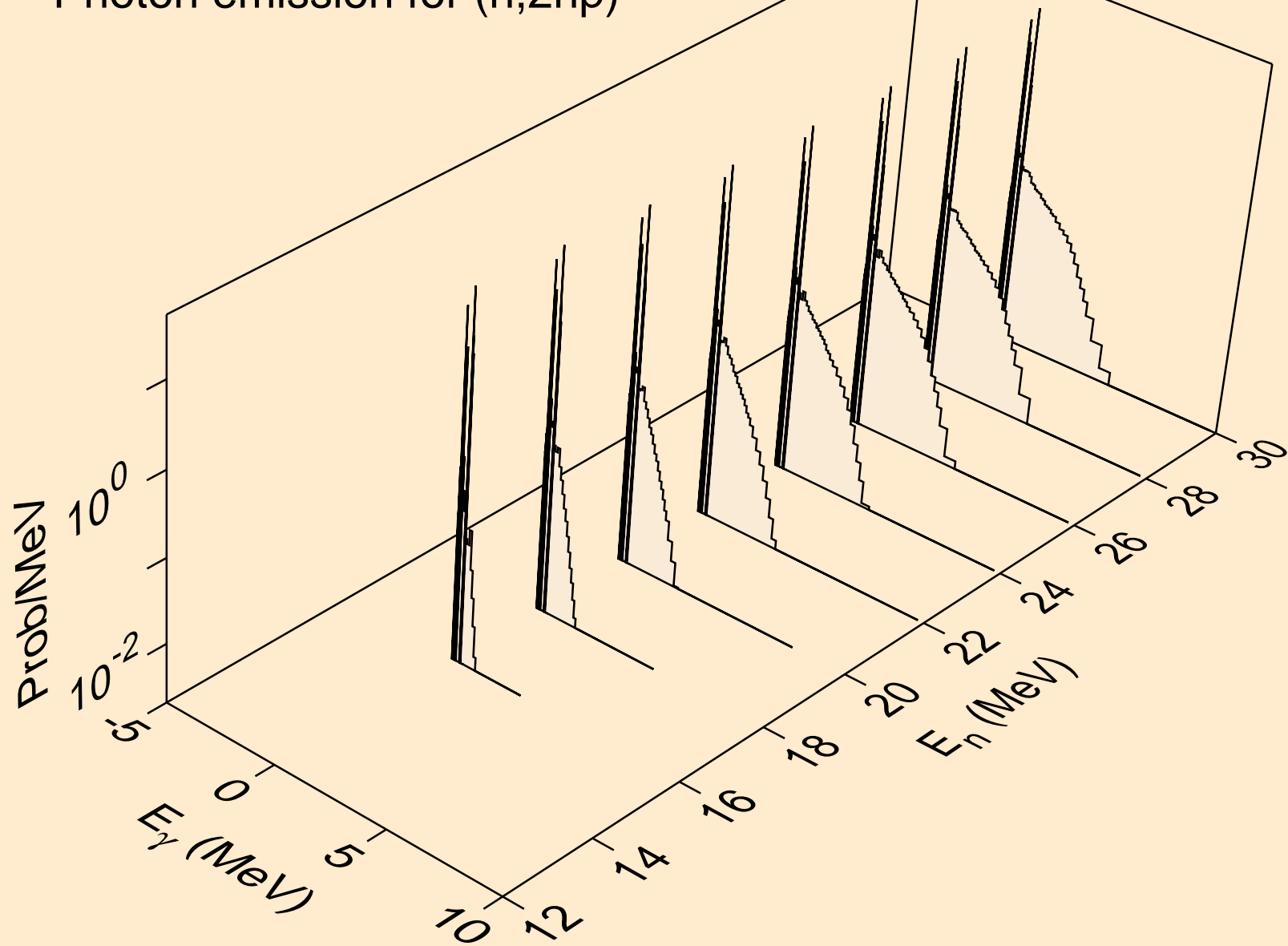
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Photon emission for (n,n\*)t



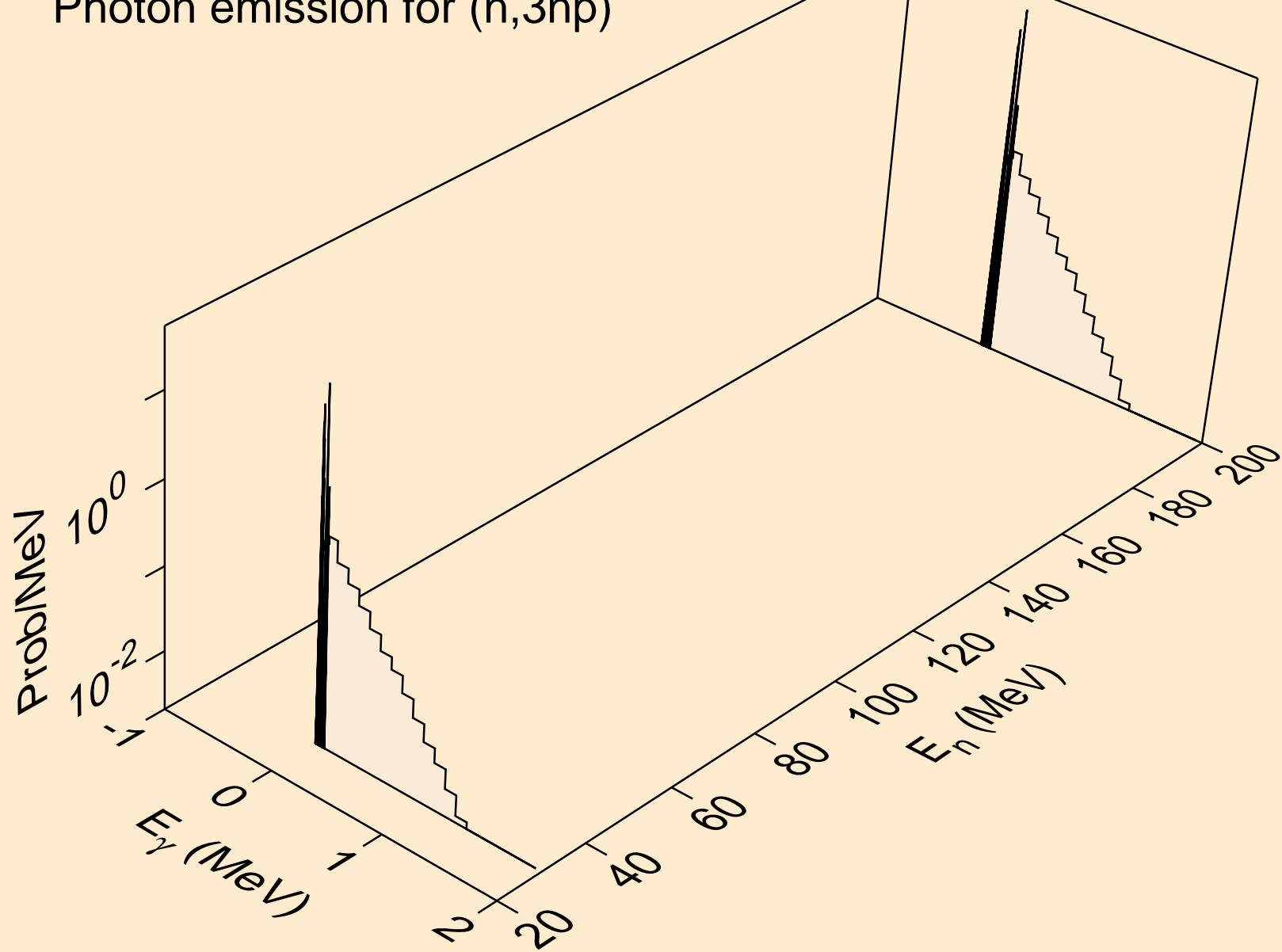
GD137 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)he3



GD137 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2np)

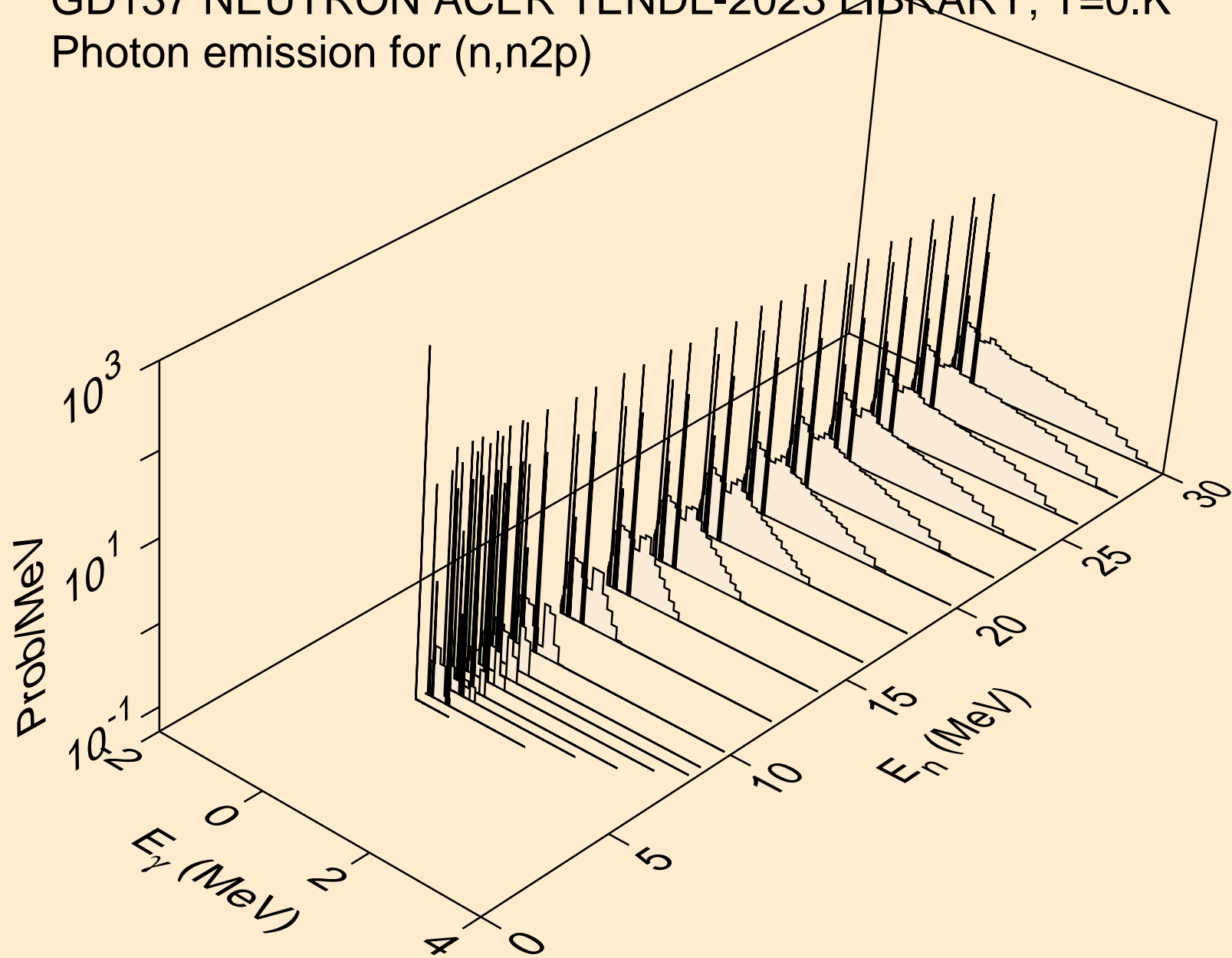


GD137 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,3np)

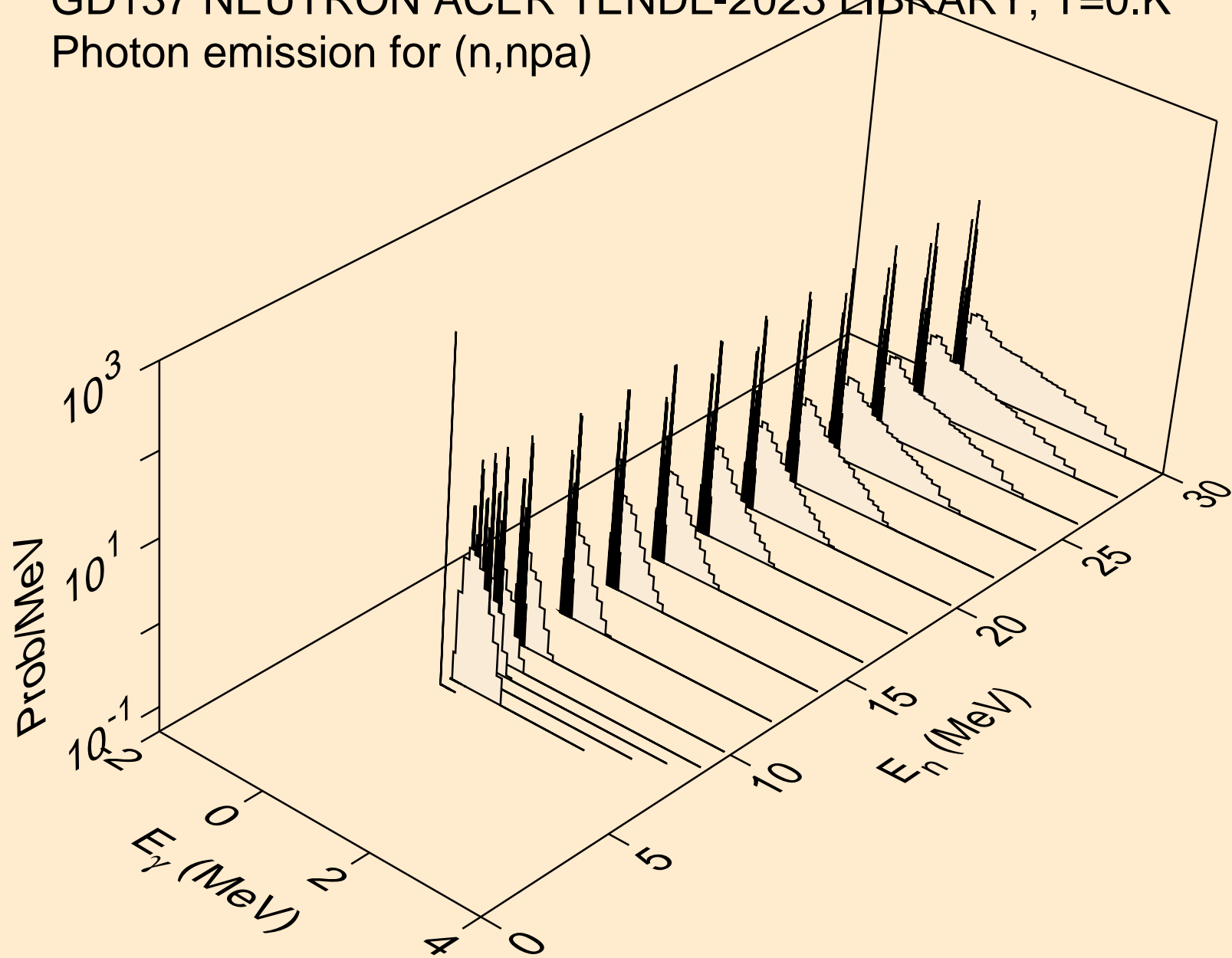




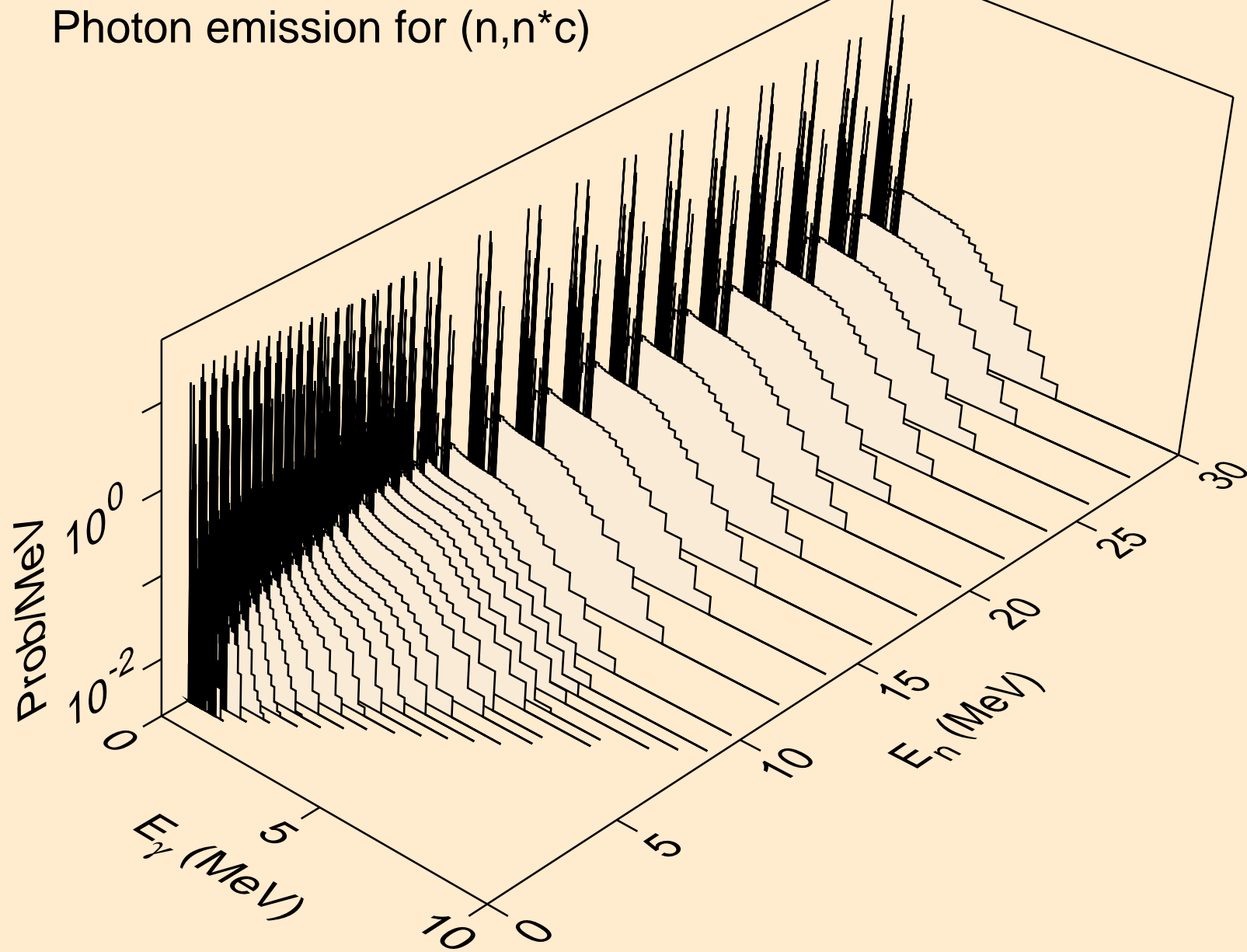
GD137 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n2p)



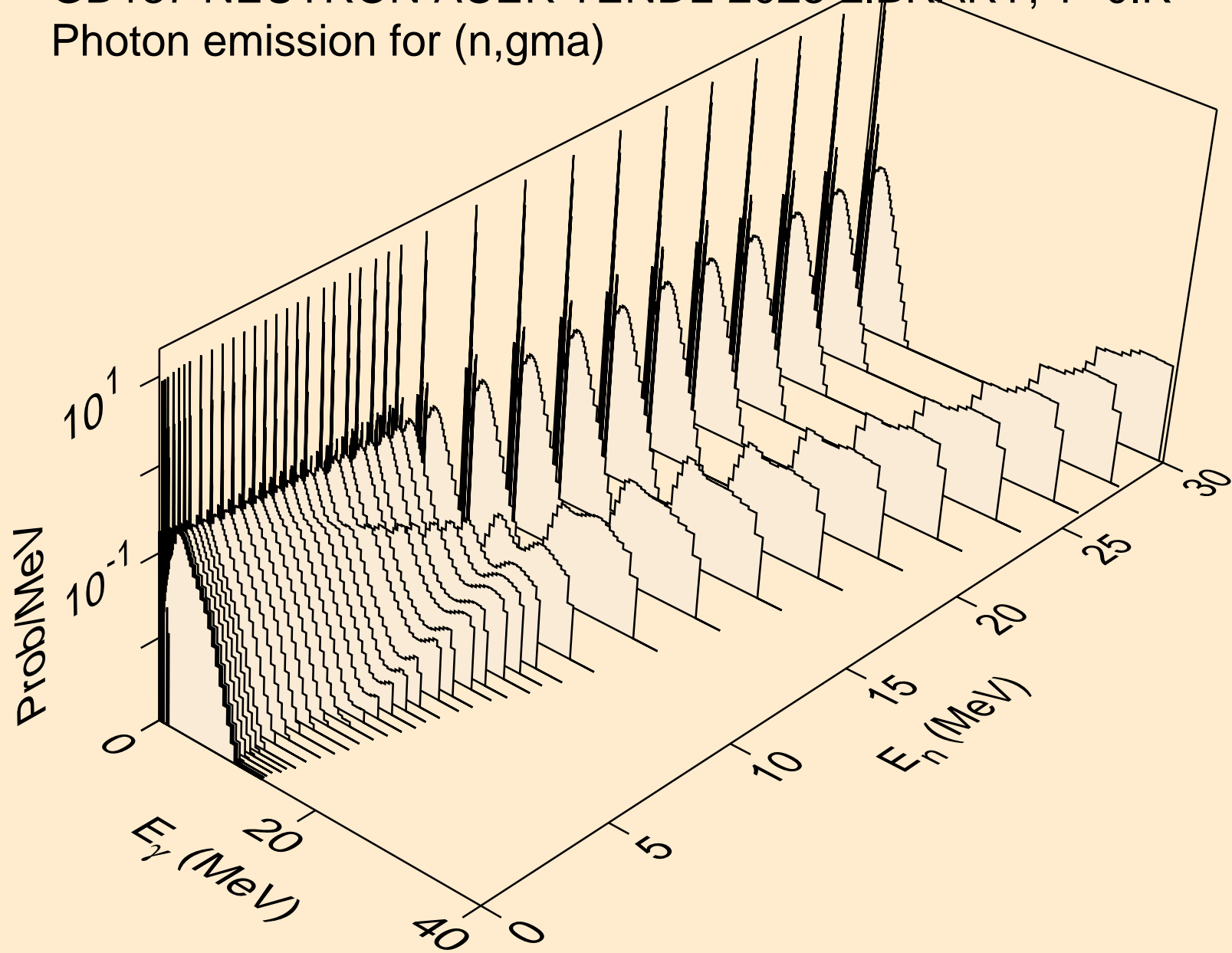
GD137 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,npa)



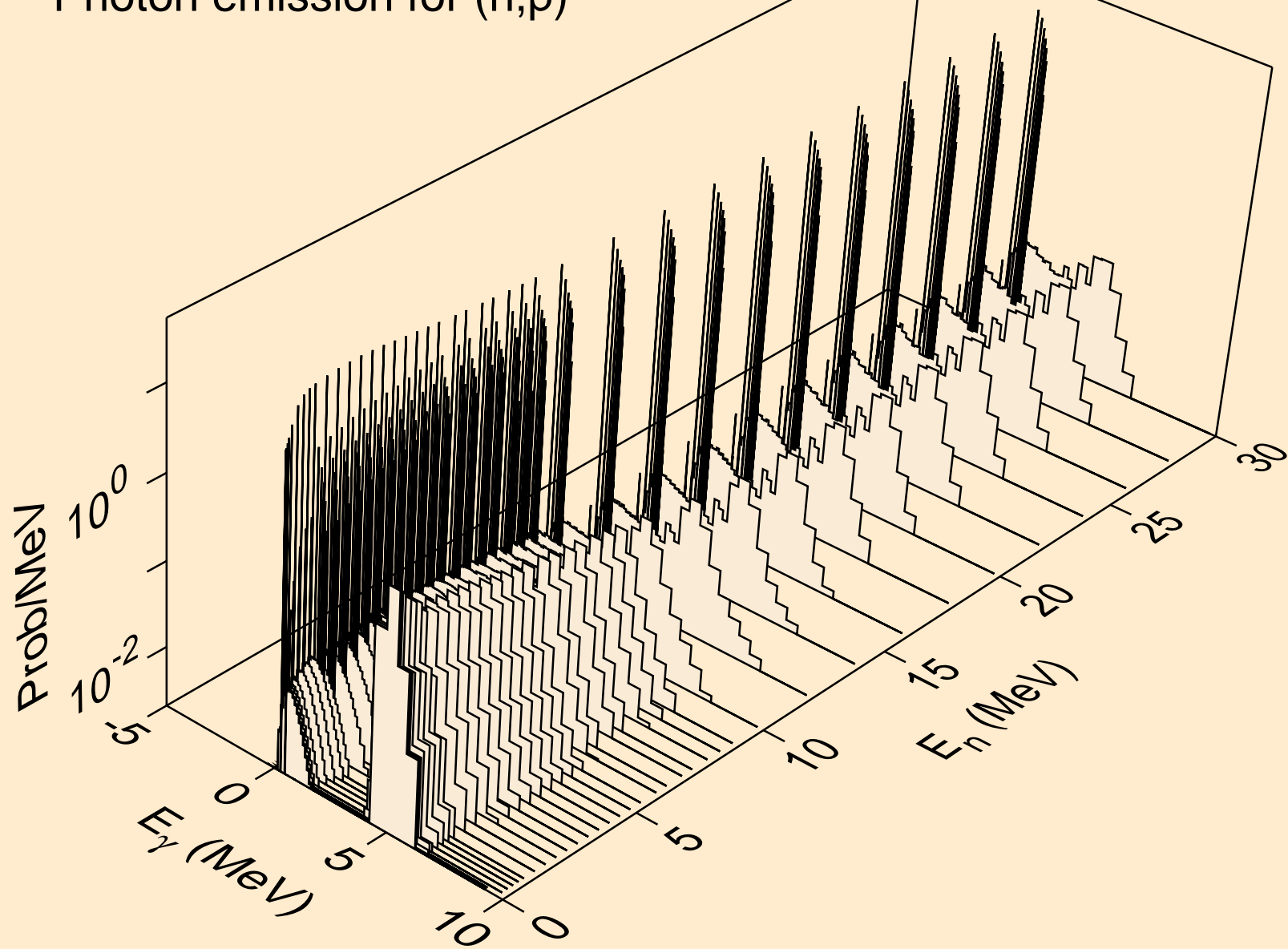
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Photon emission for (n,n\*c)



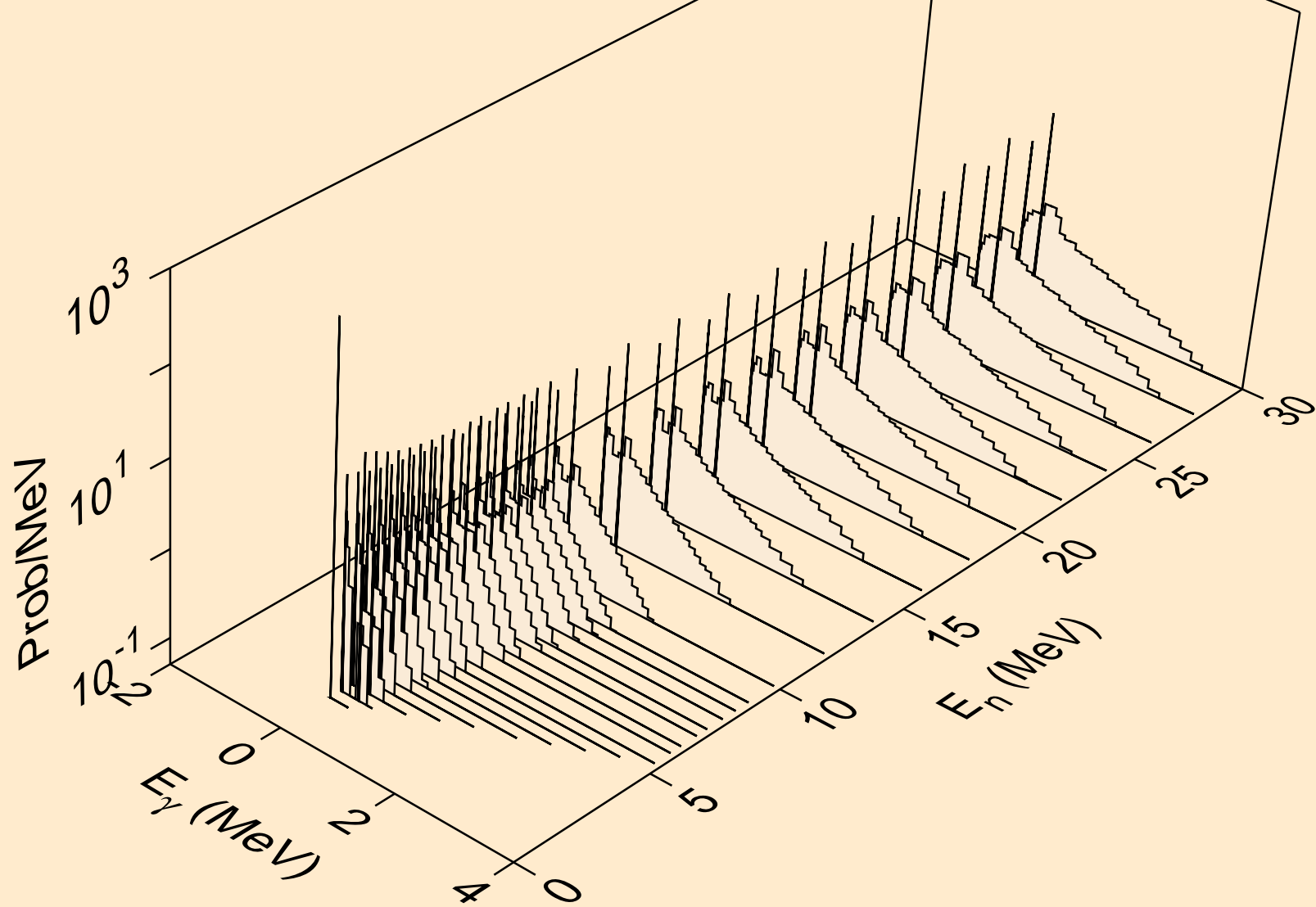
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Photon emission for (n,gma)



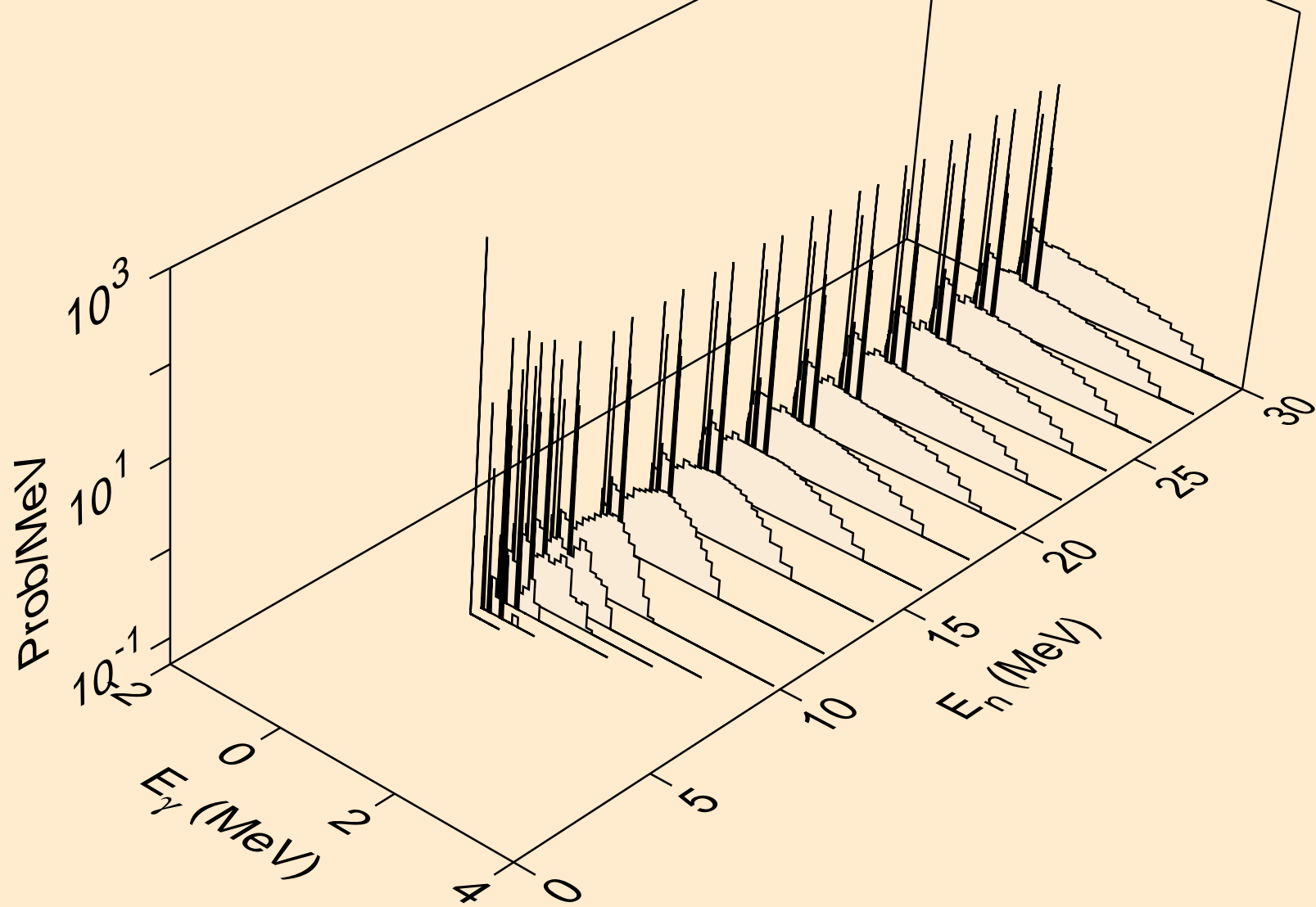
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Photon emission for (n,p)



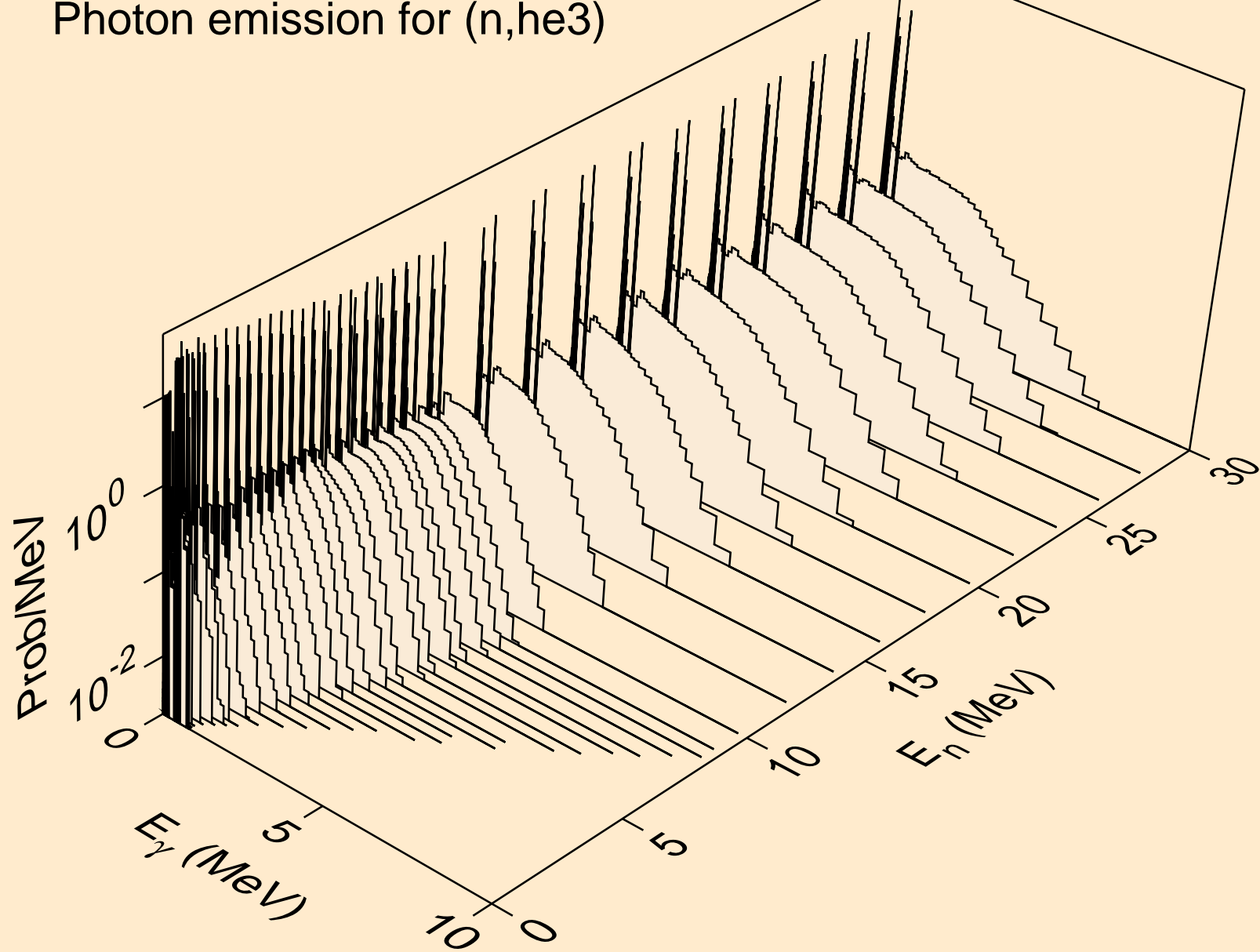
GD137 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,d)



GD137 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,t)

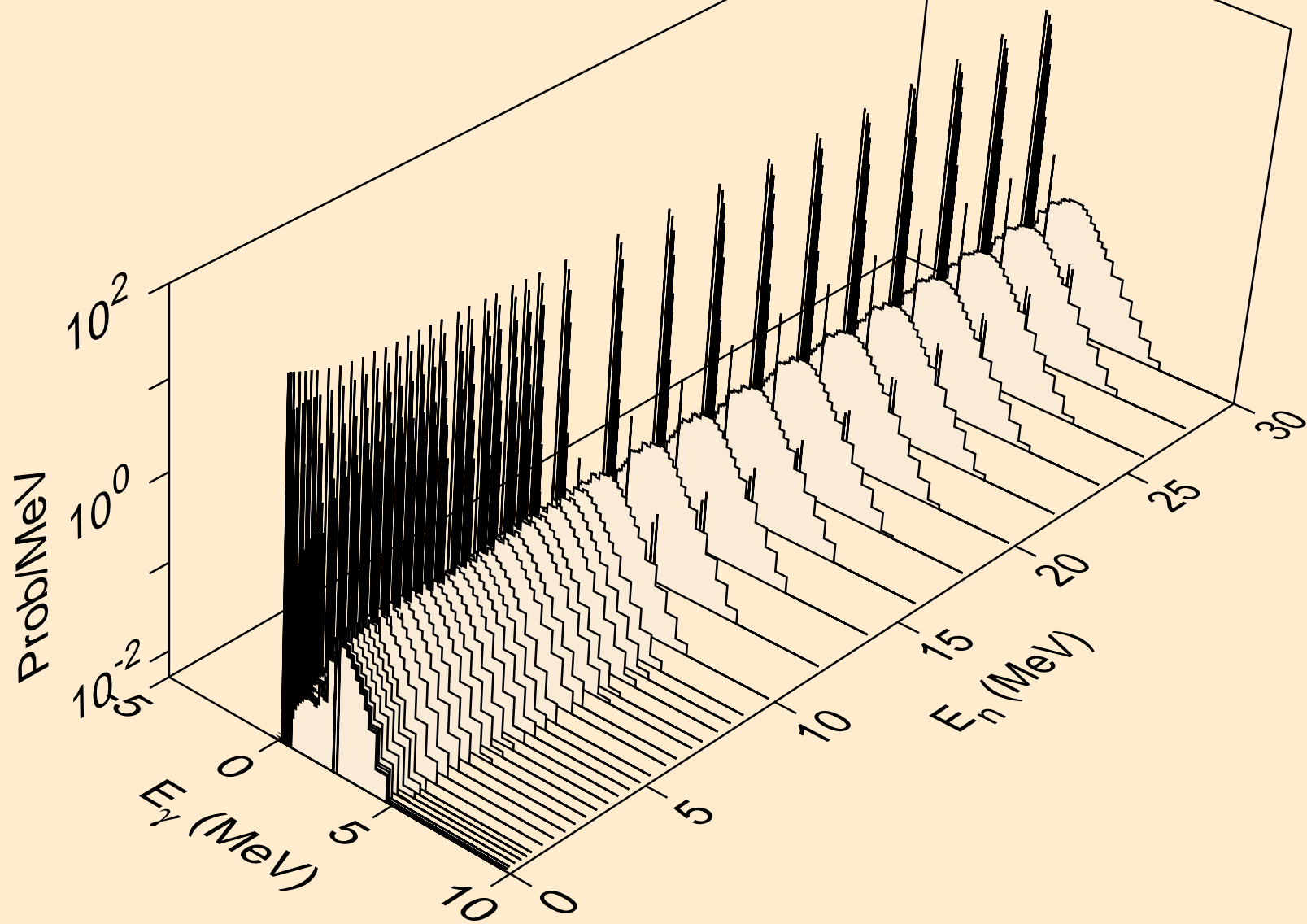


GD137 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,he3)

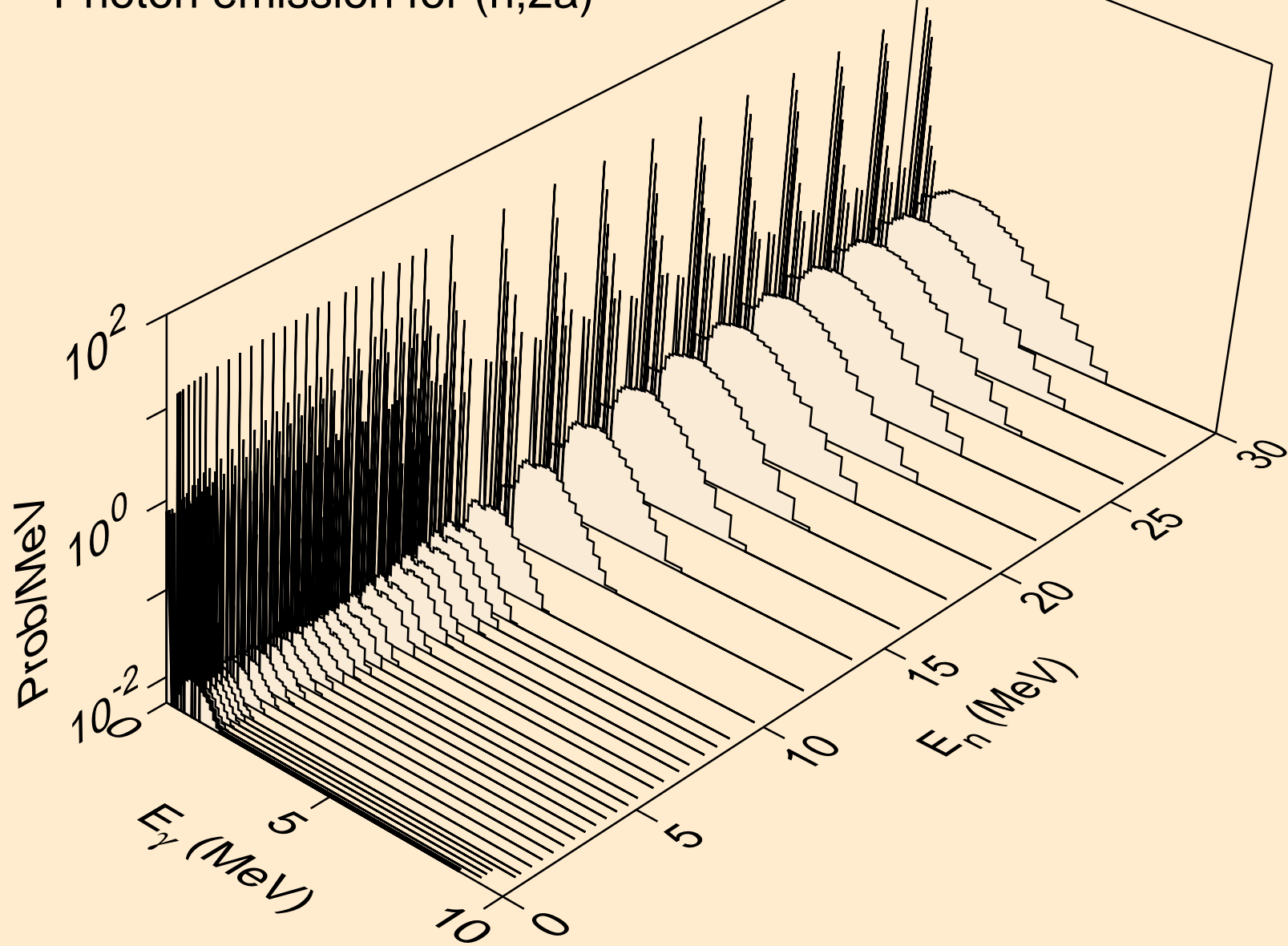




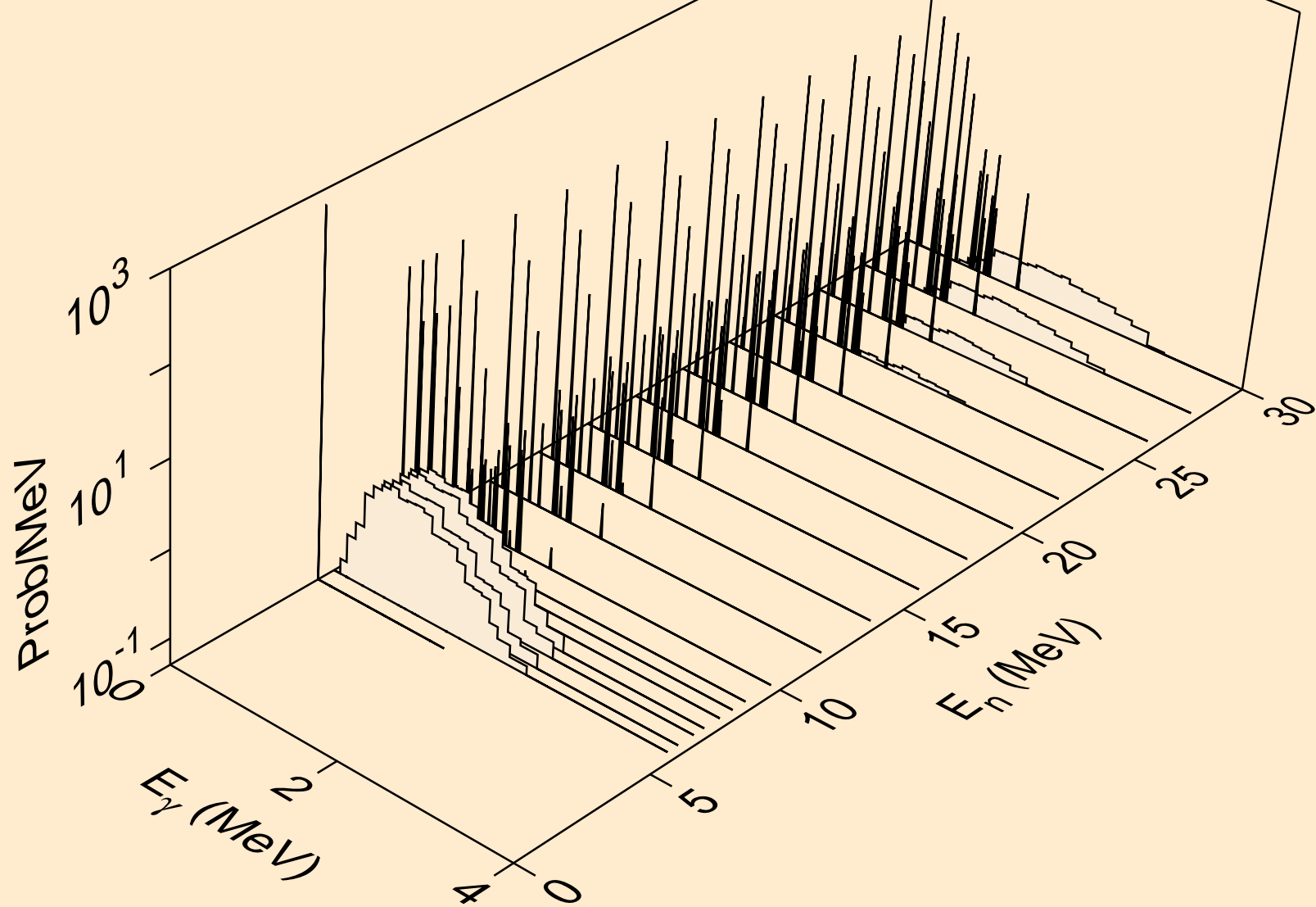
GD137 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,a)



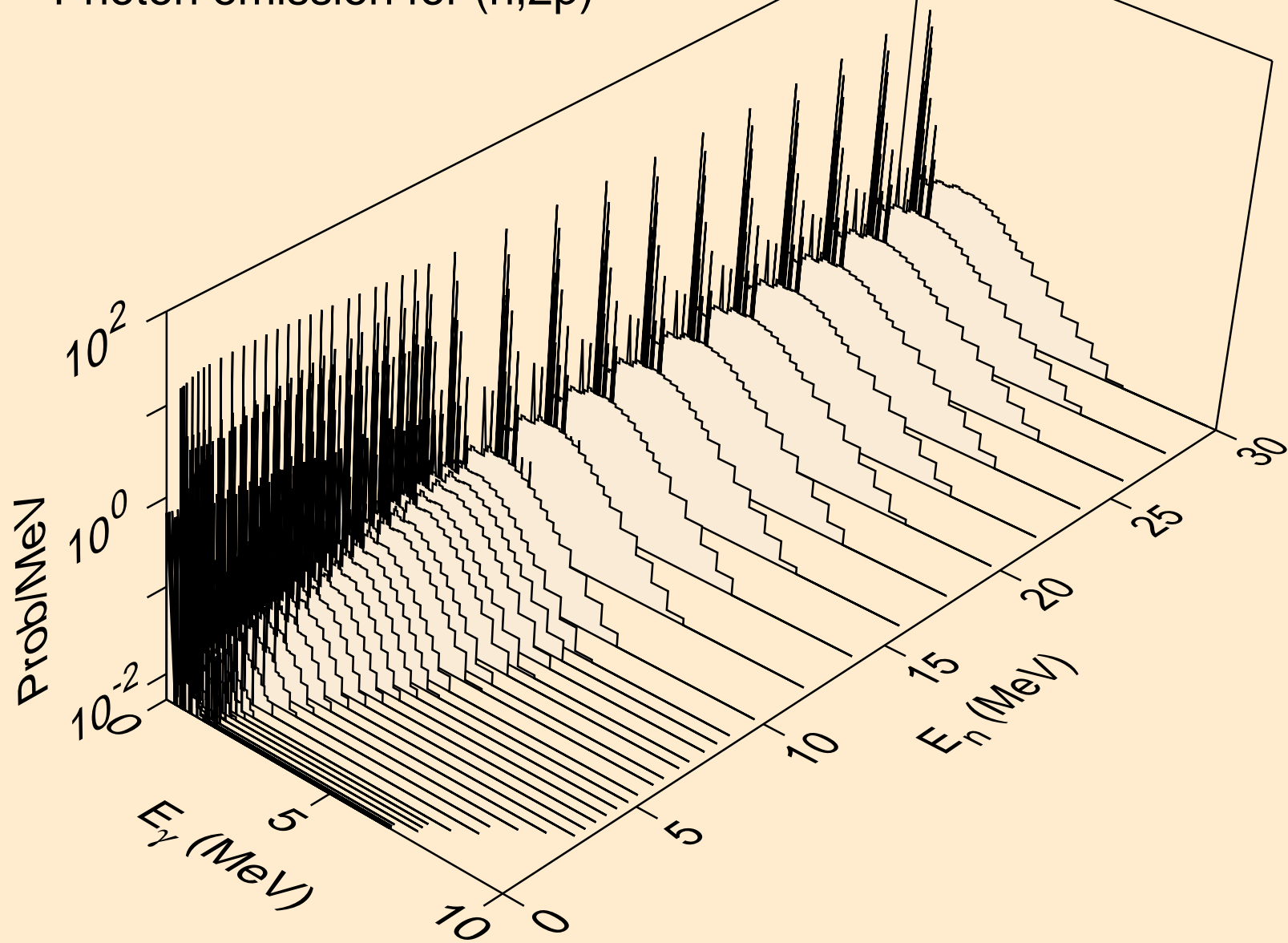
GD137 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2a)



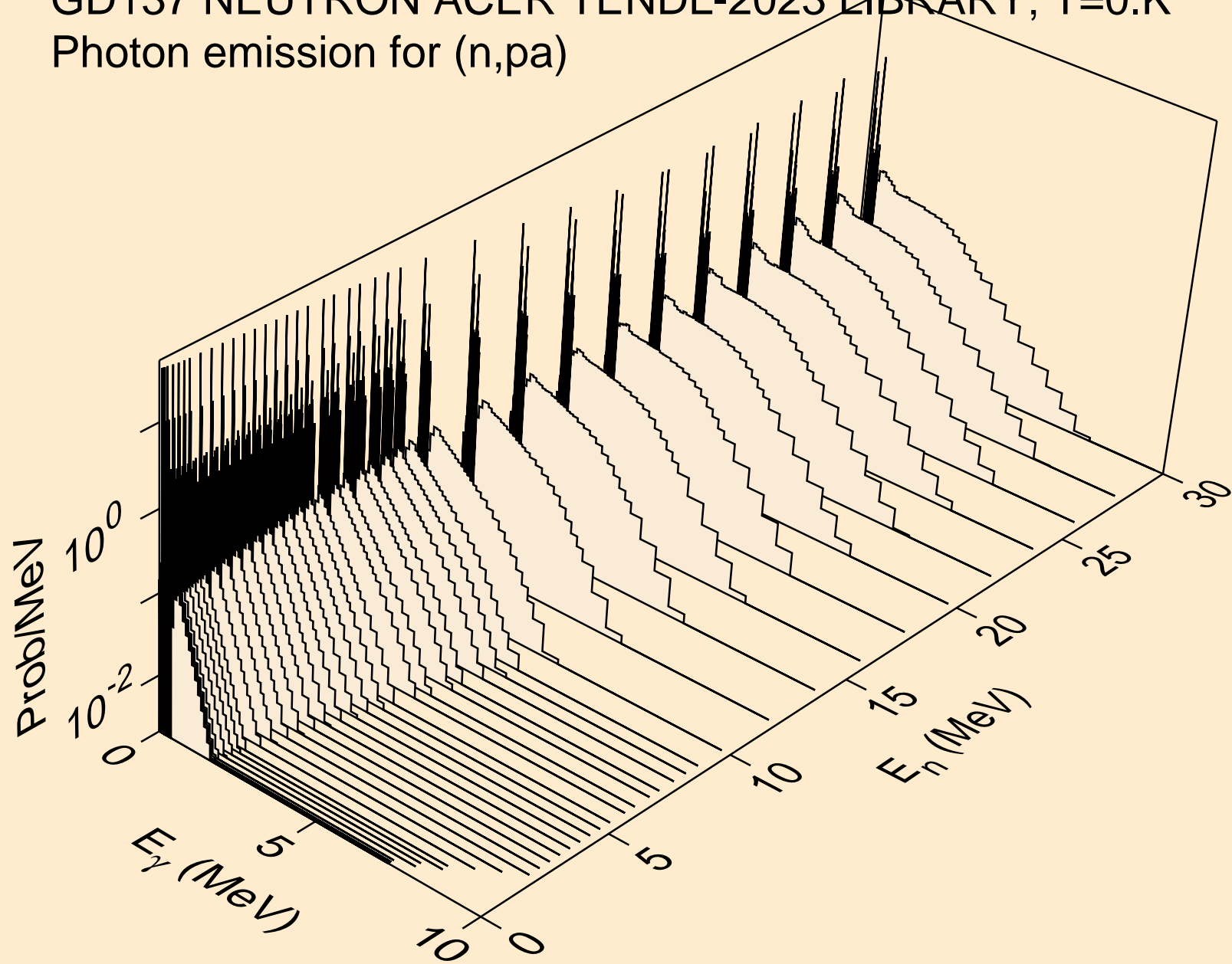
GD137 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,3a)



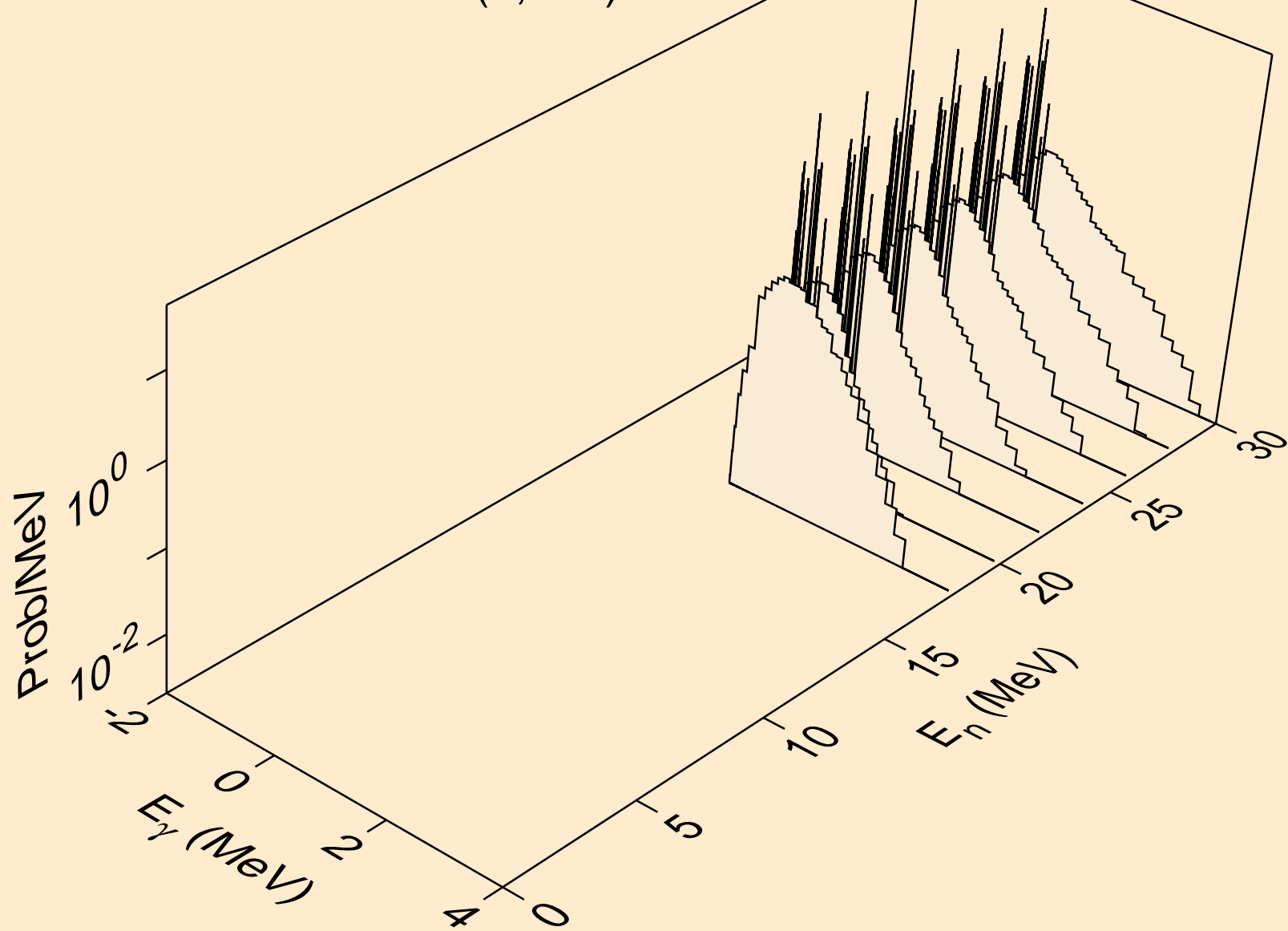
GD137 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2p)



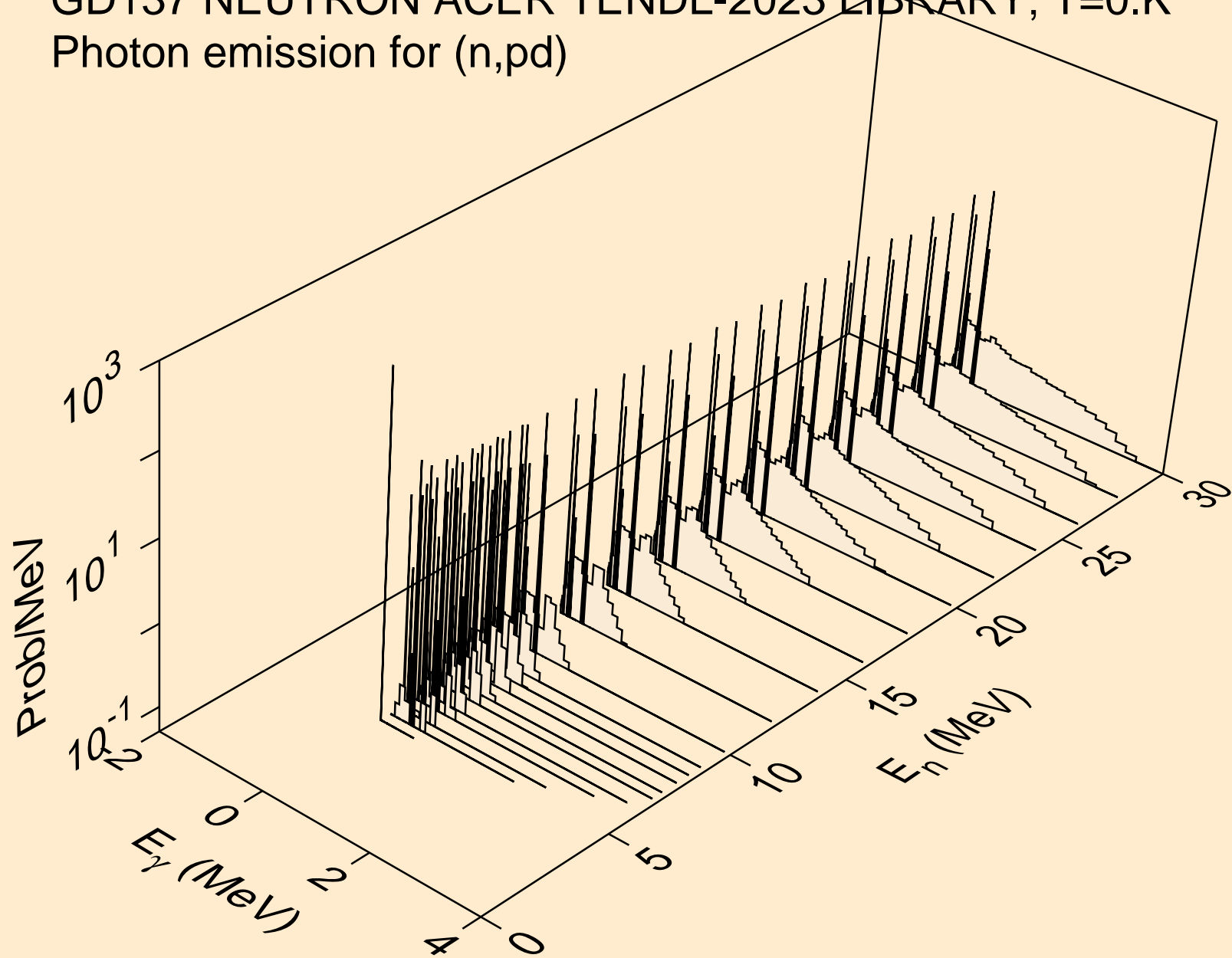
GD137 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,p $\alpha$ )



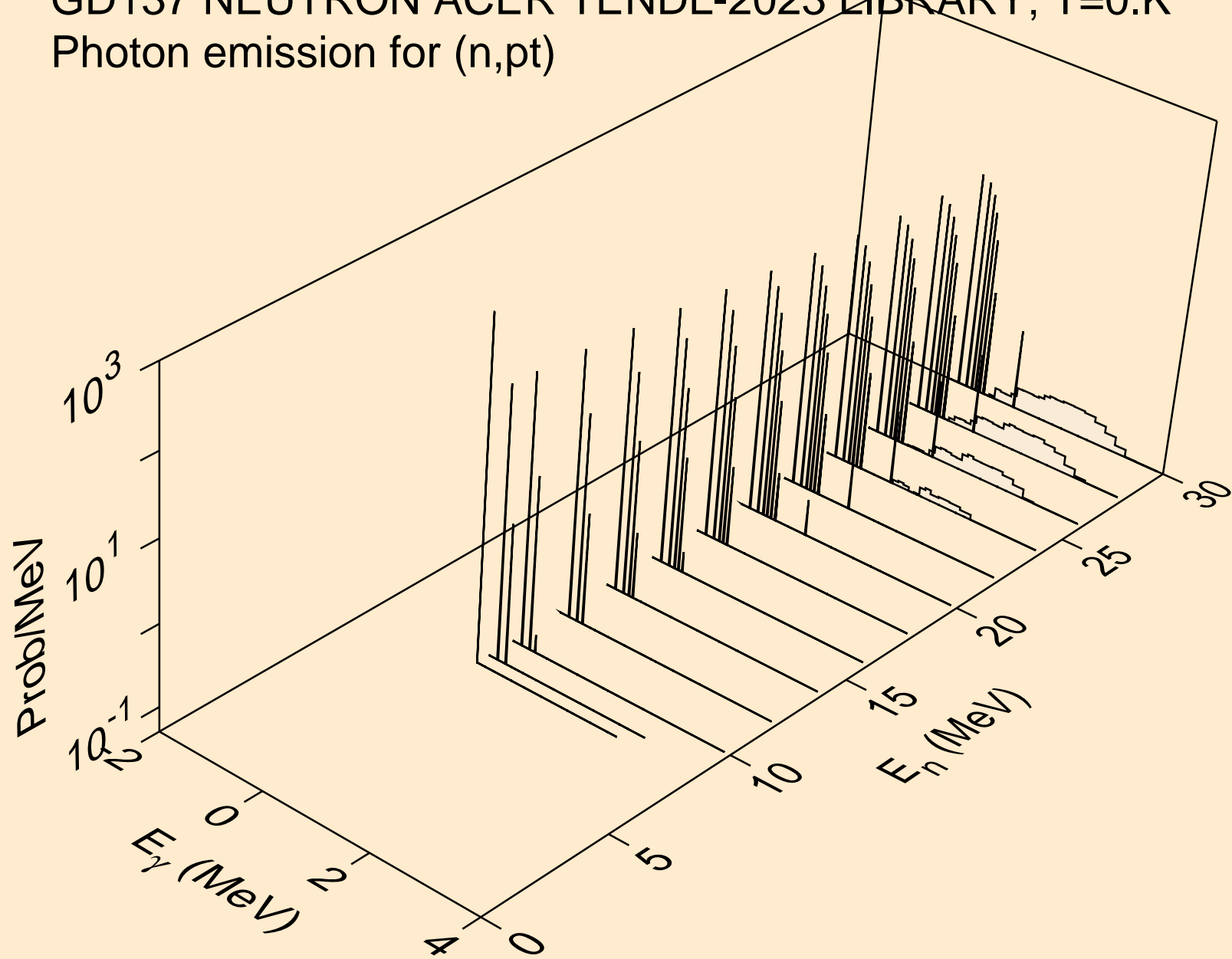
GD137 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,d2a)



GD137 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,pd)

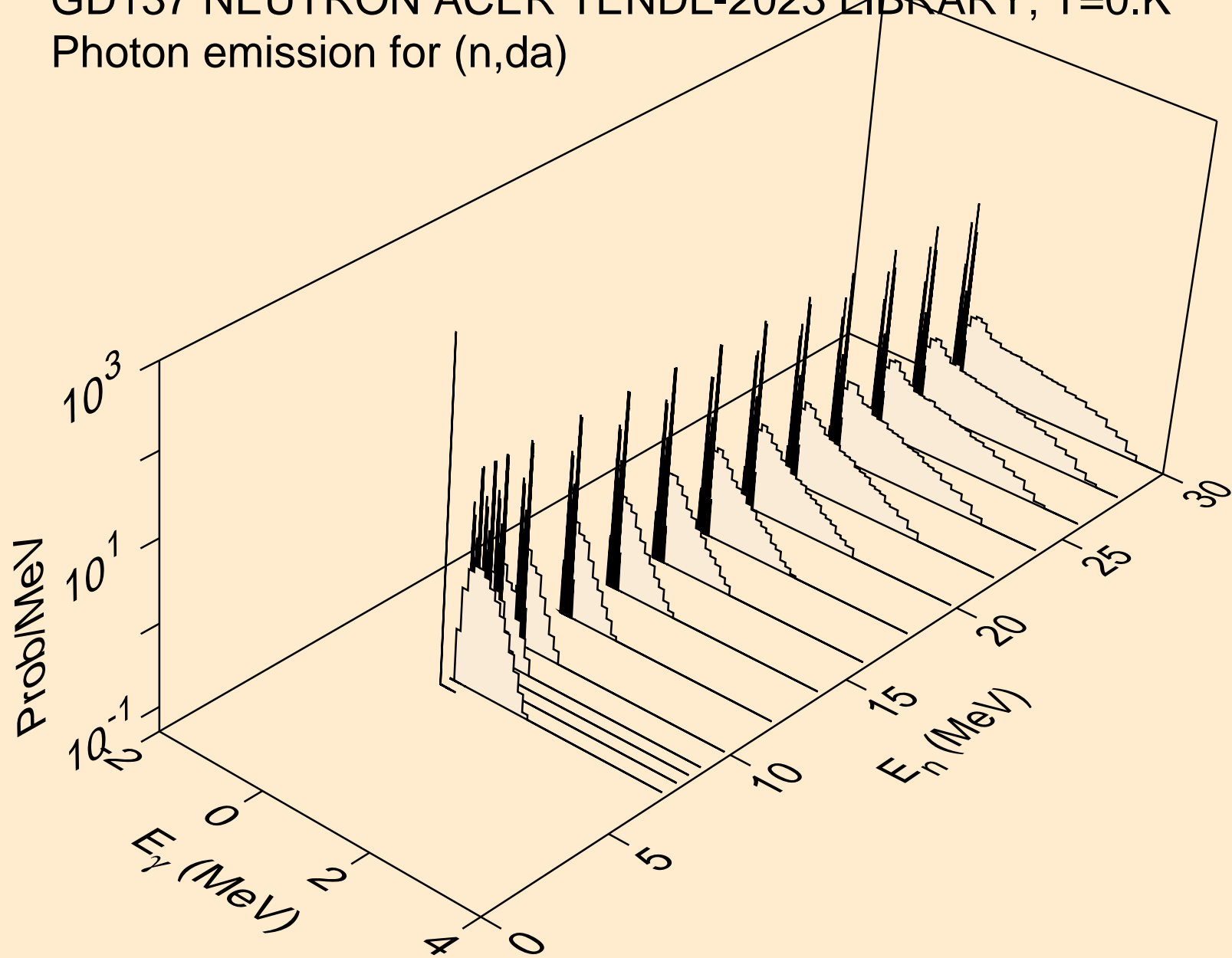


GD137 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,pt)

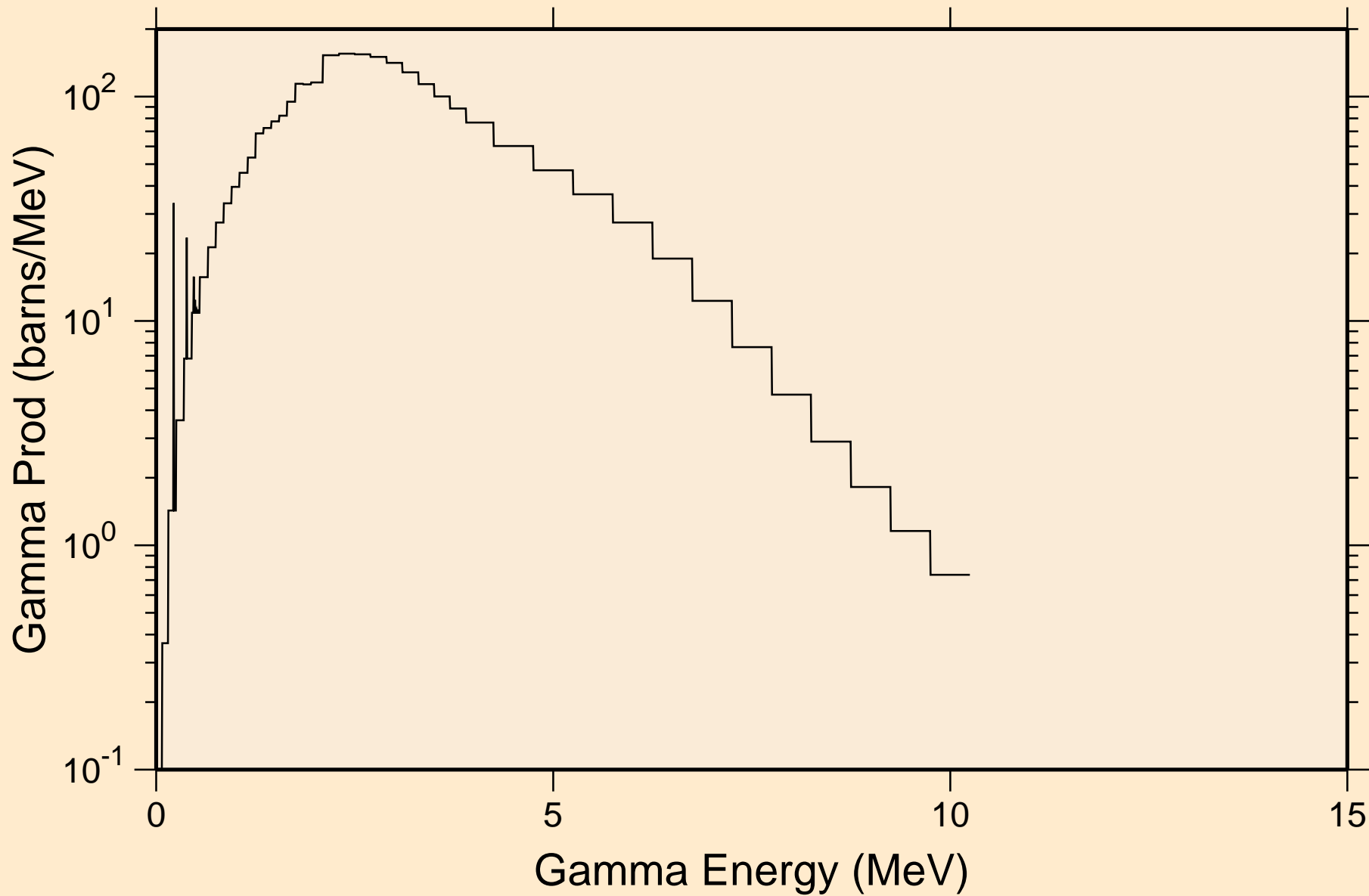




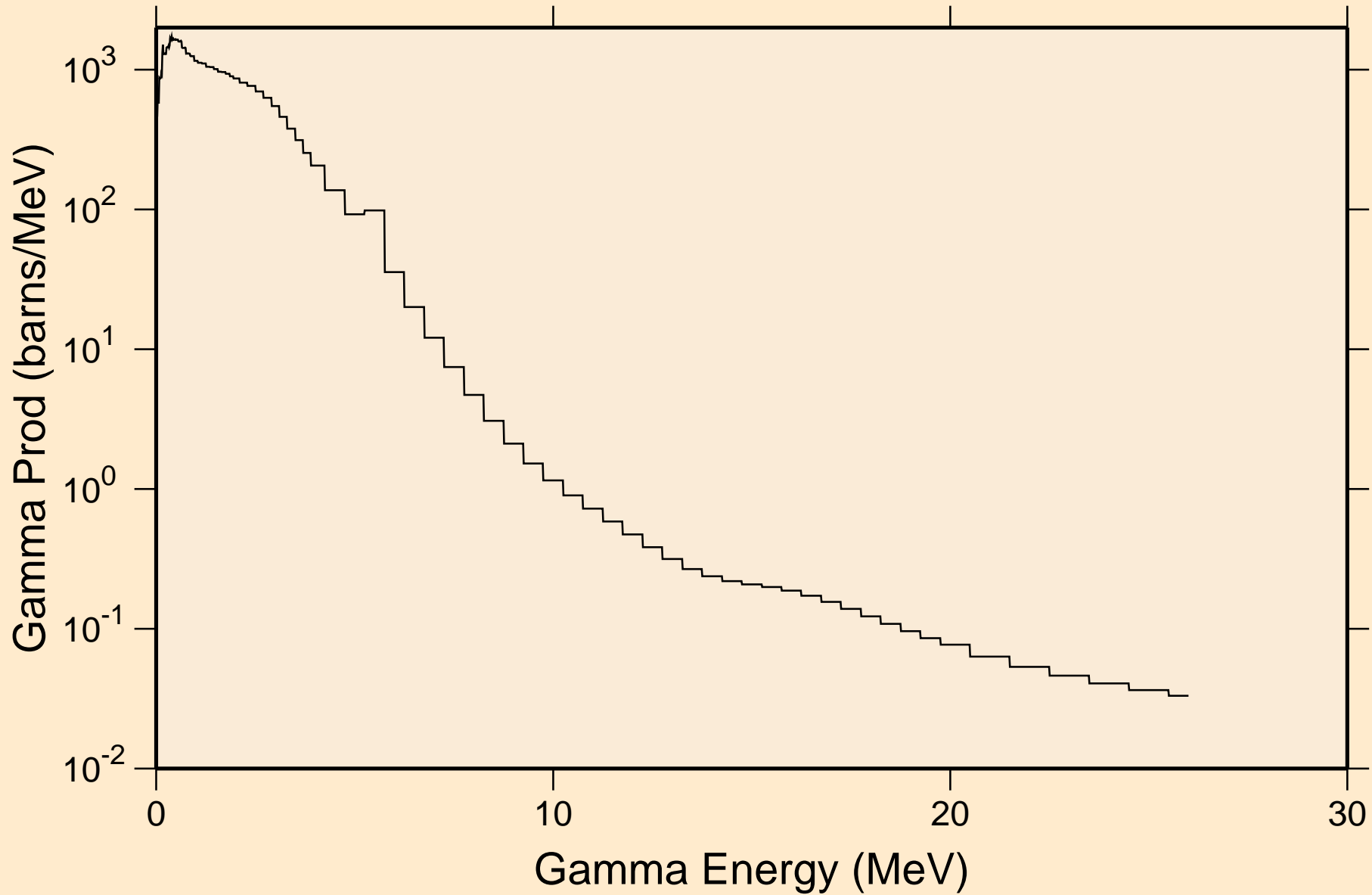
GD137 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,da)



GD137 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
thermal capture photon spectrum

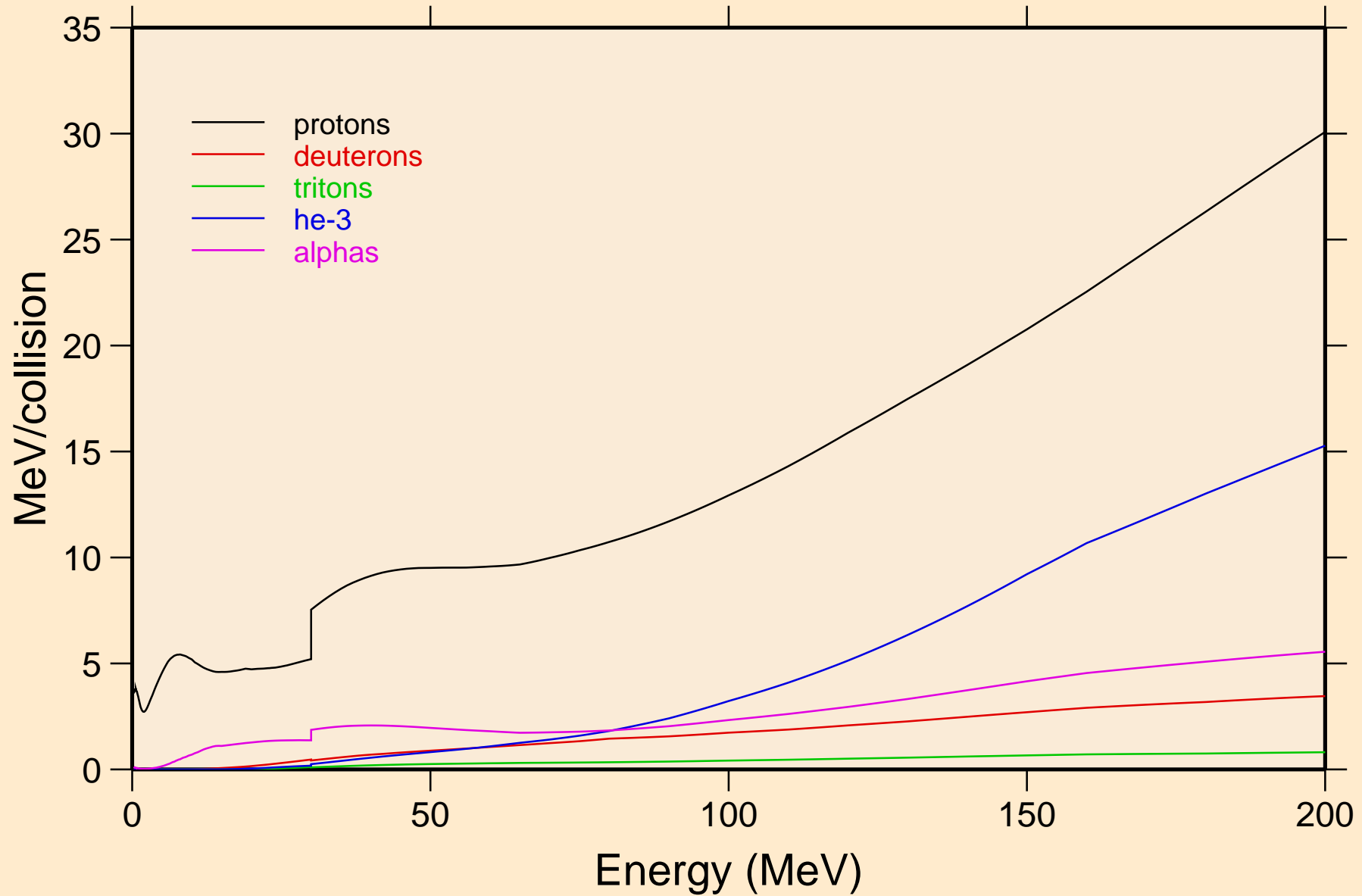


GD137 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
14 MeV photon spectrum



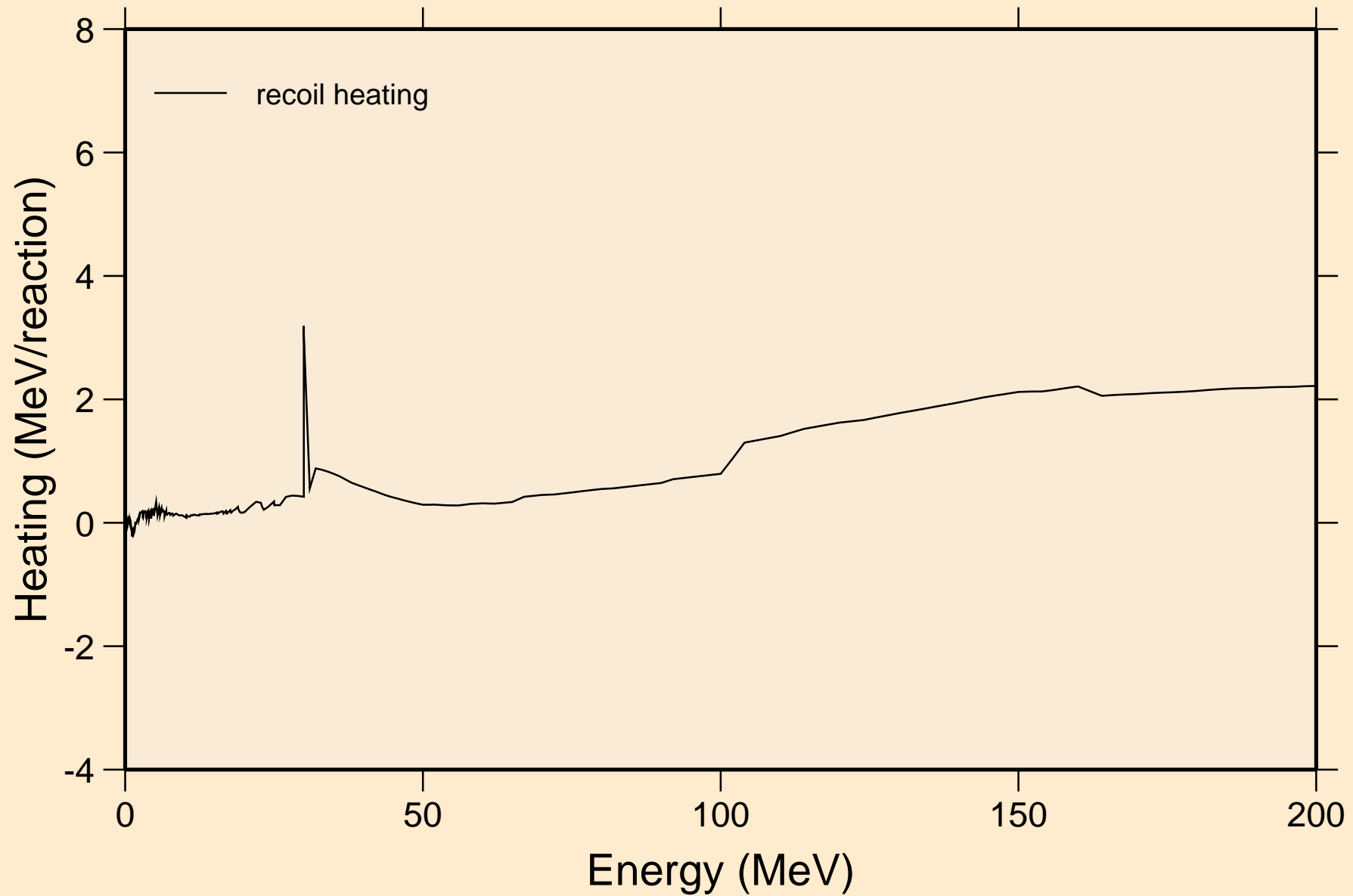
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## Particle heating contributions



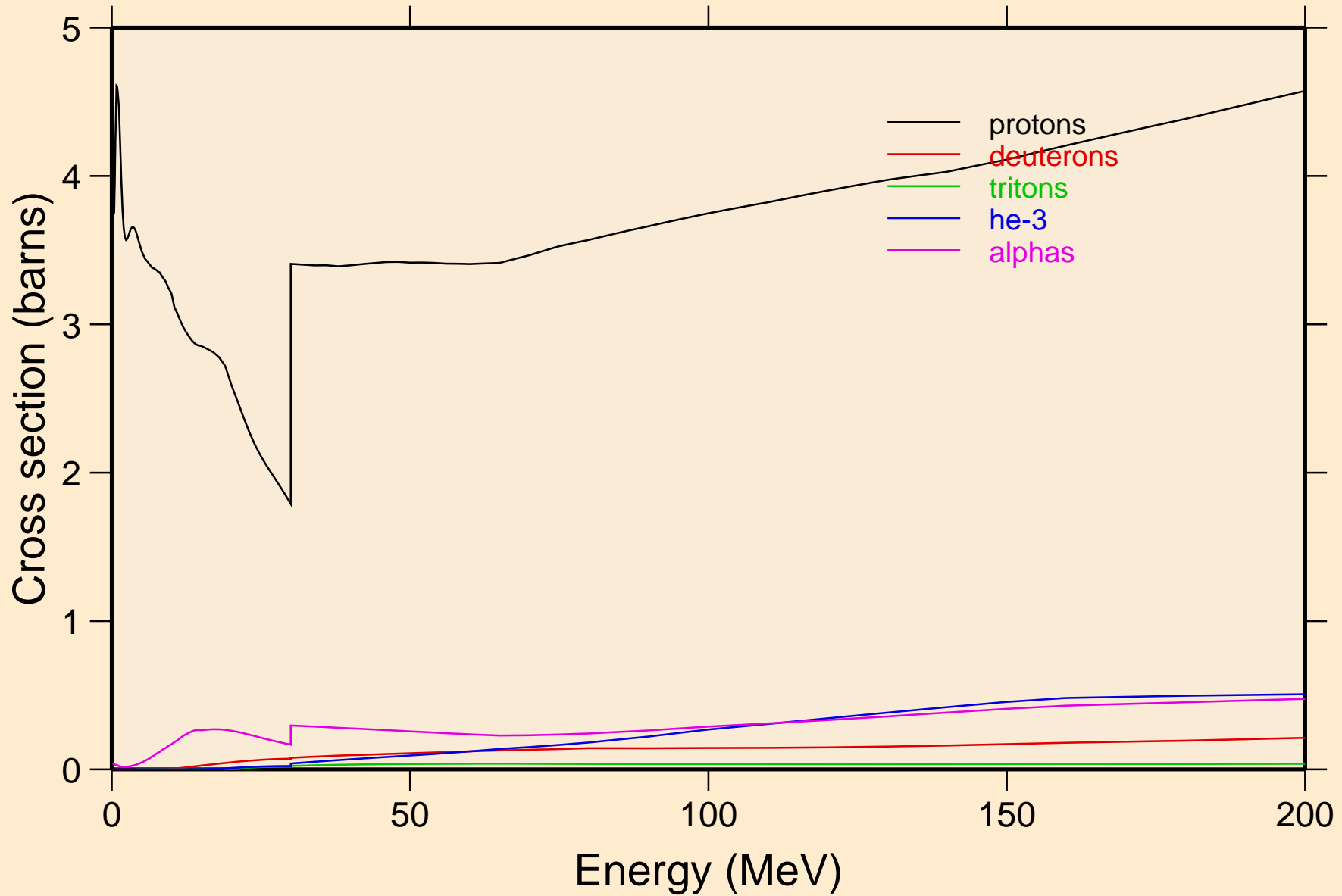
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## Recoil Heating

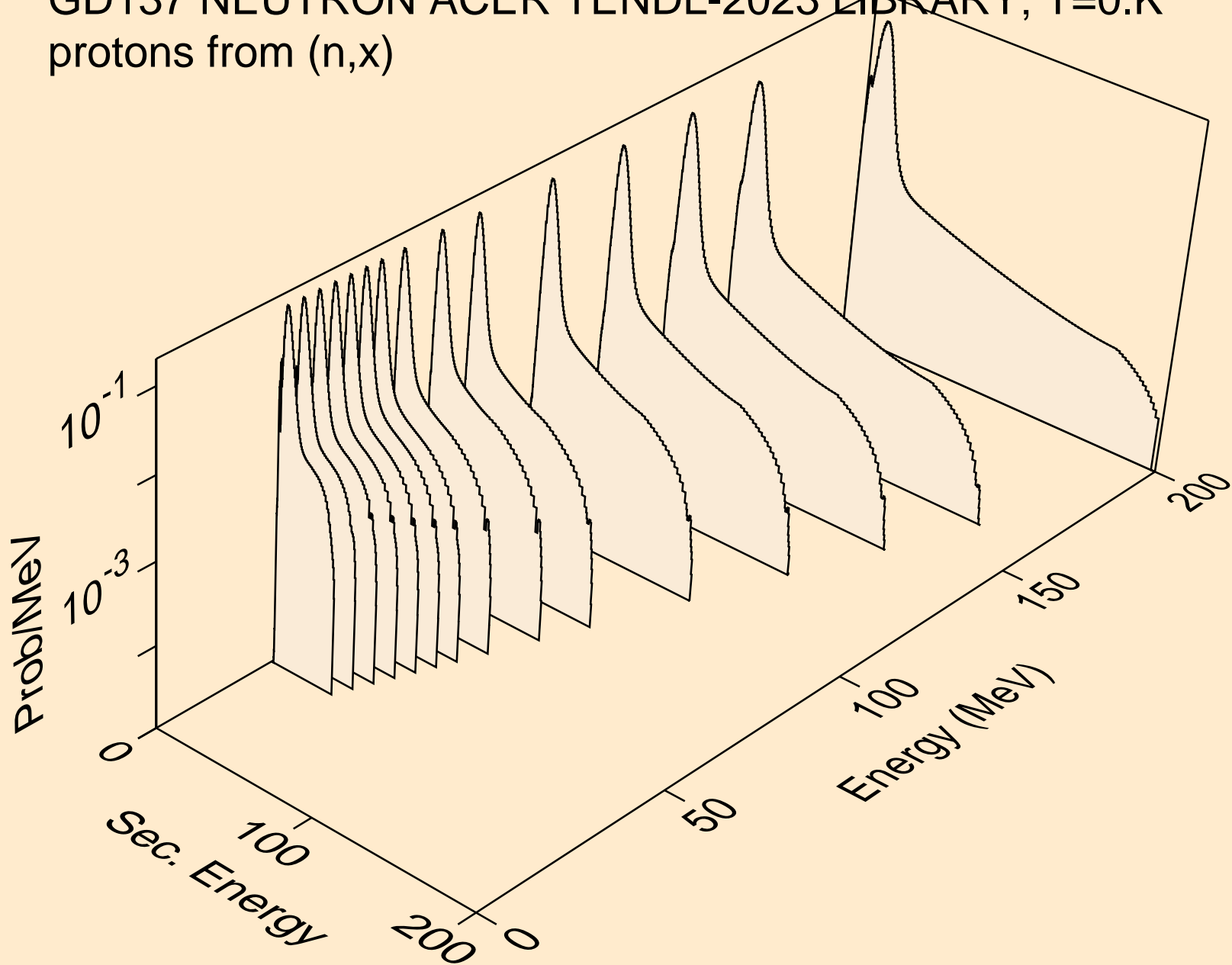


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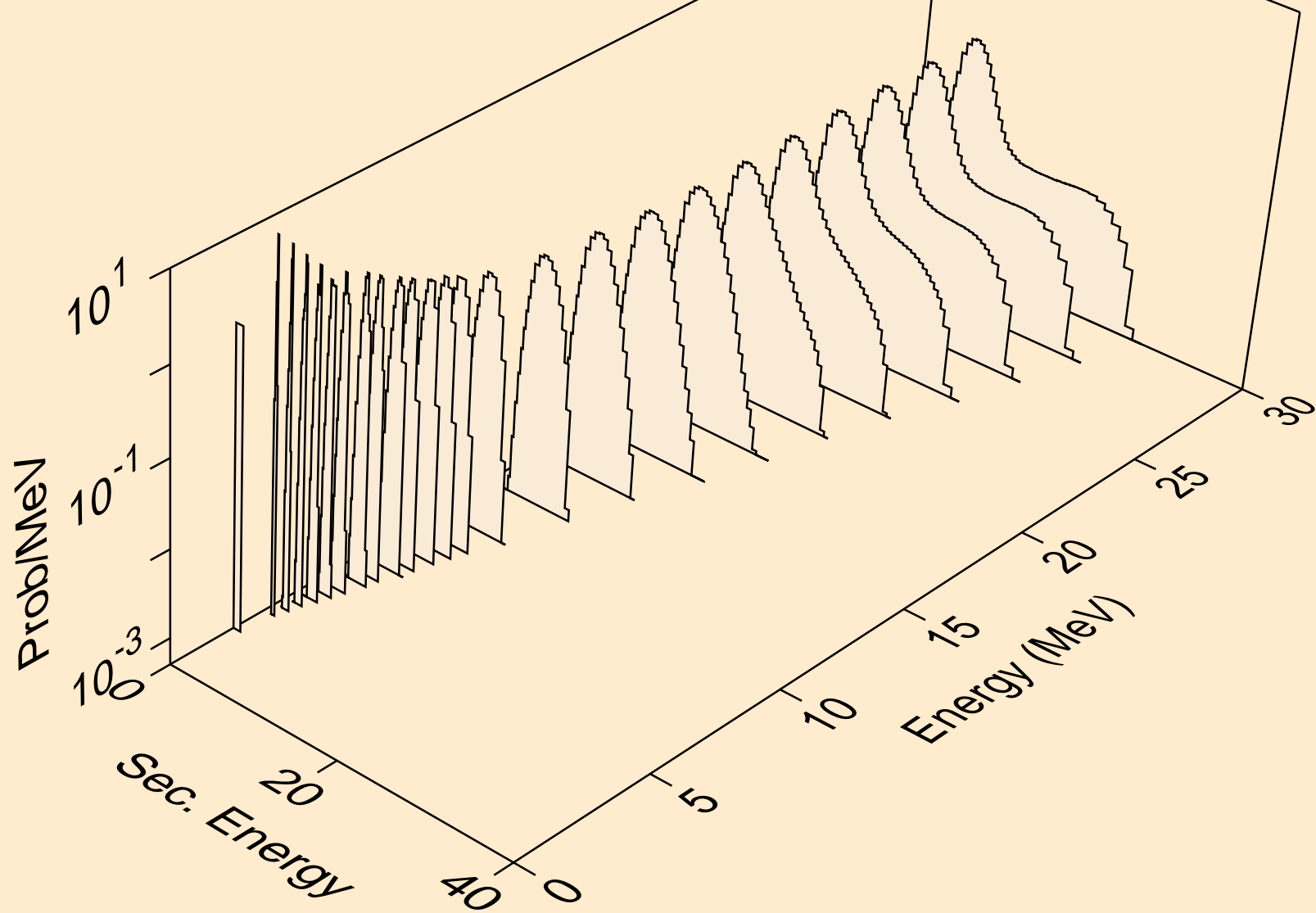
## Particle production cross sections



GD137 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
protons from (n,x)

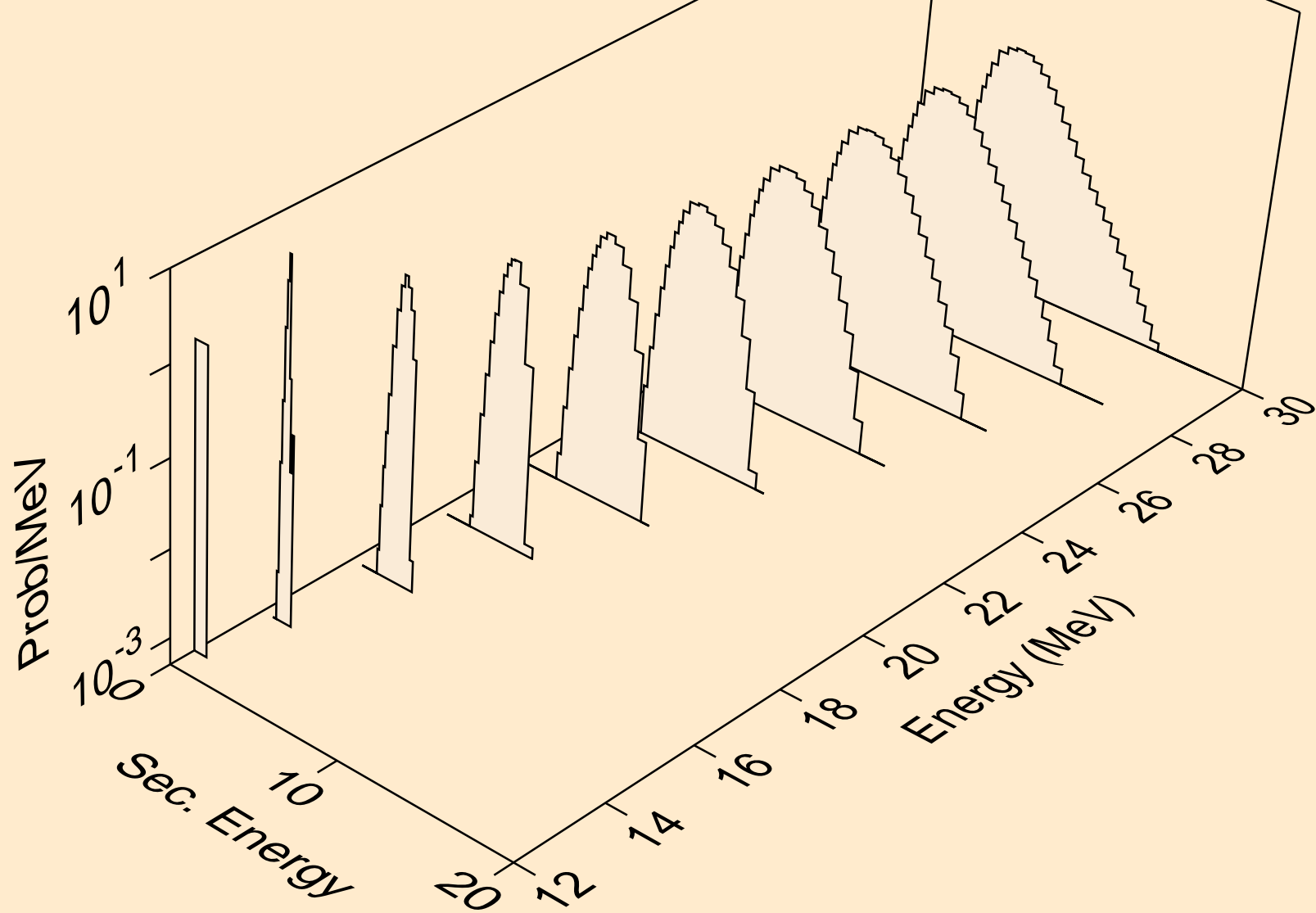


GD137 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
protons from (n,n\*)p

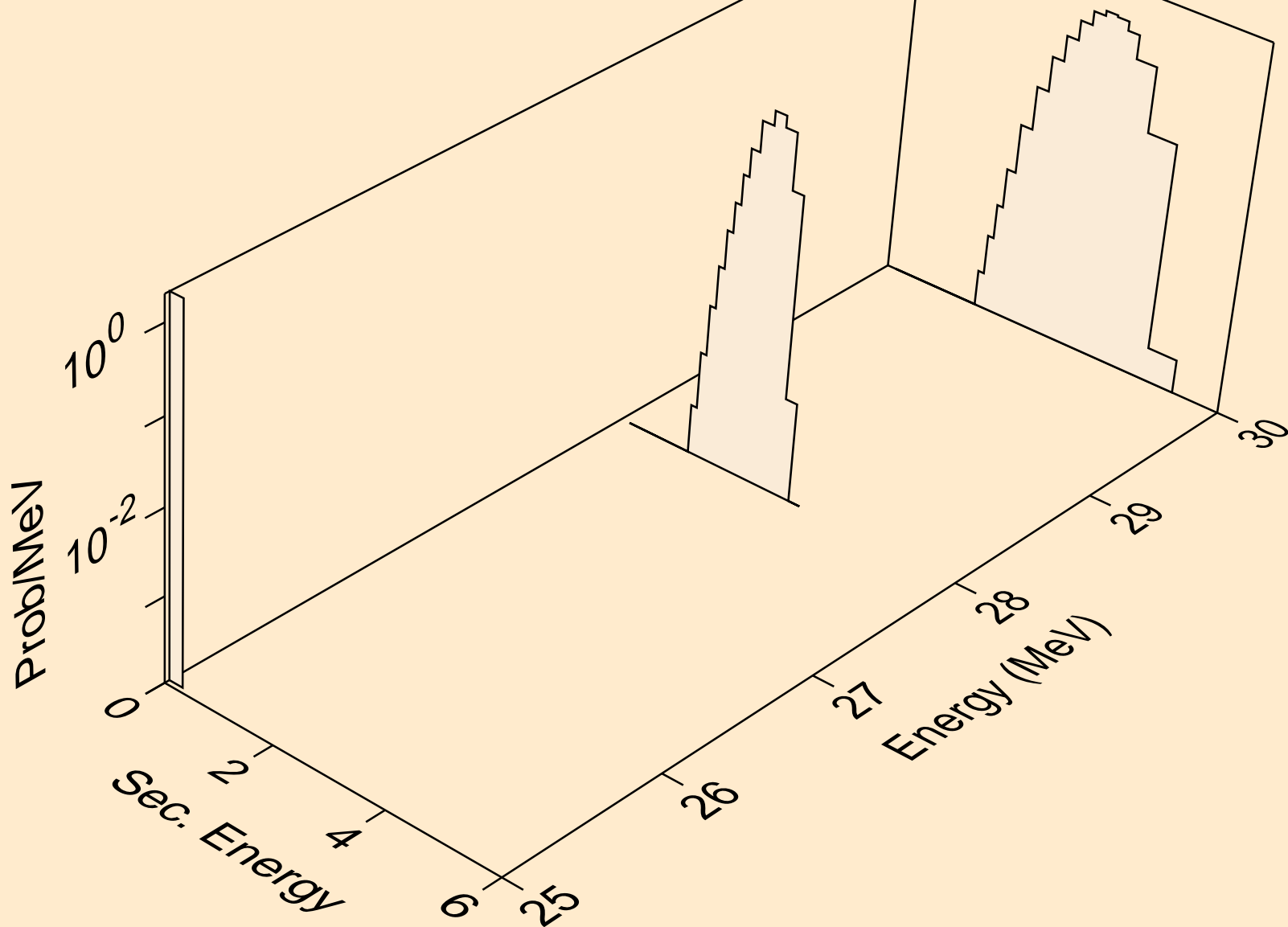




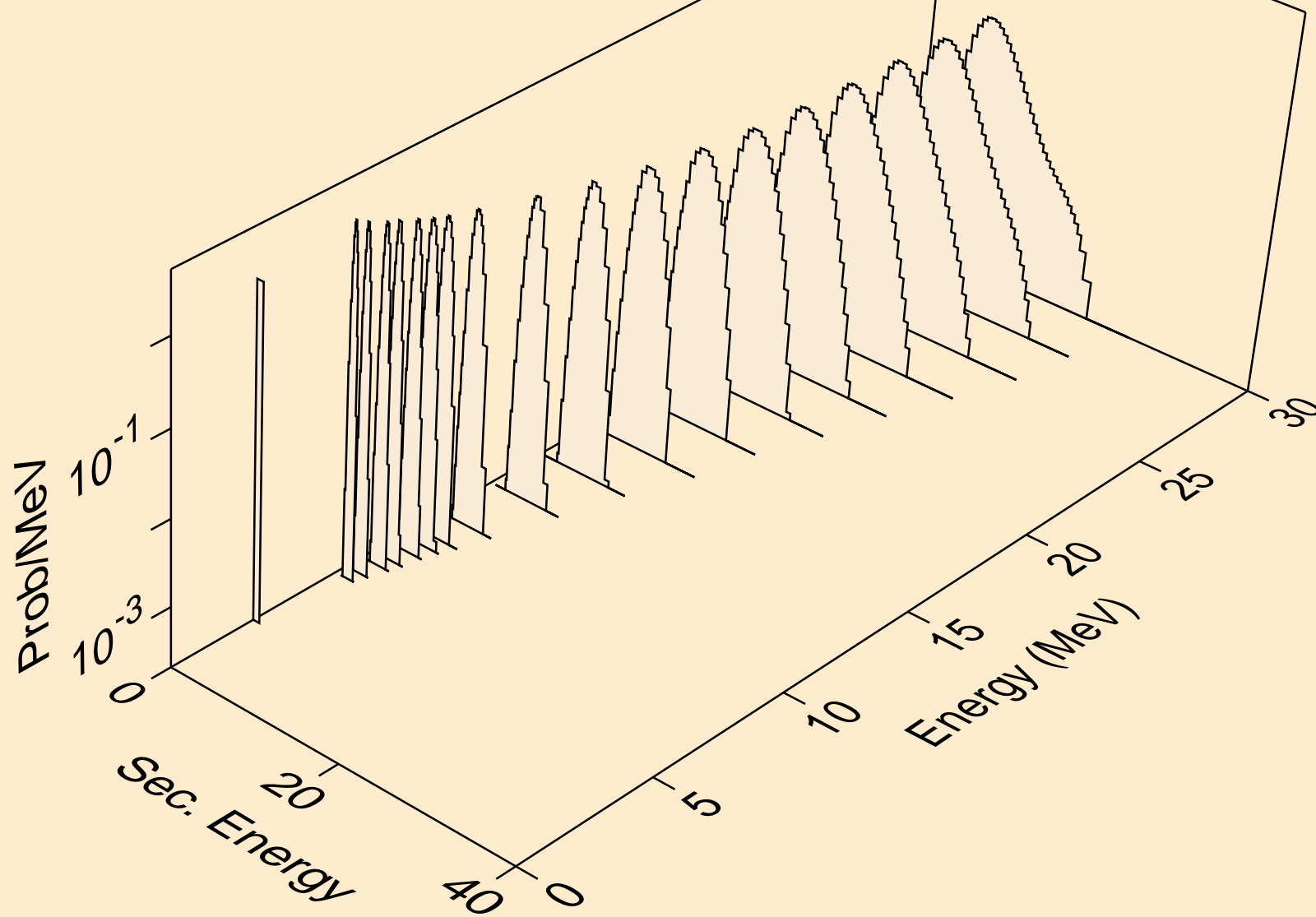
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protons from (n,2np)



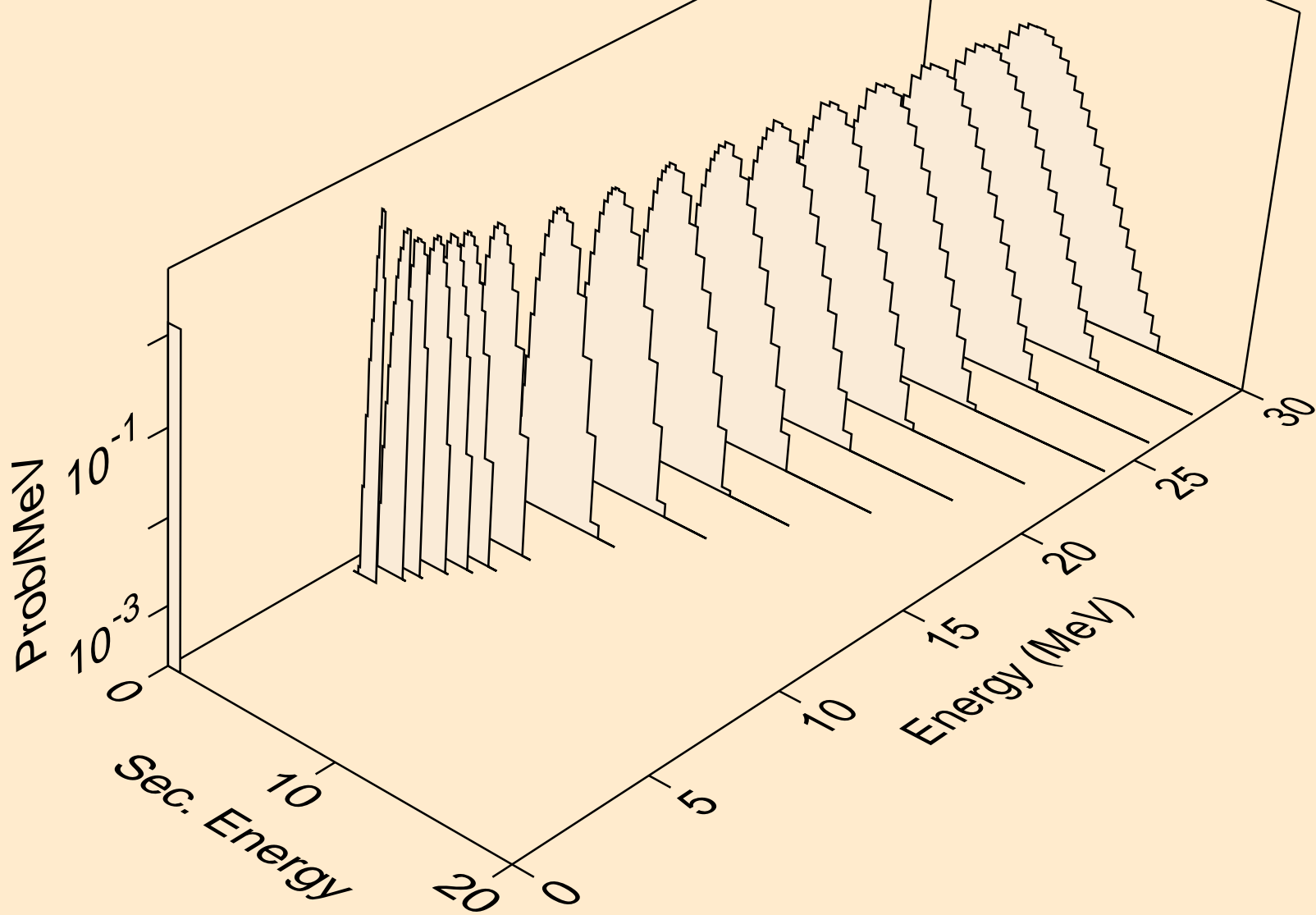
GD137 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
protons from (n,3np)



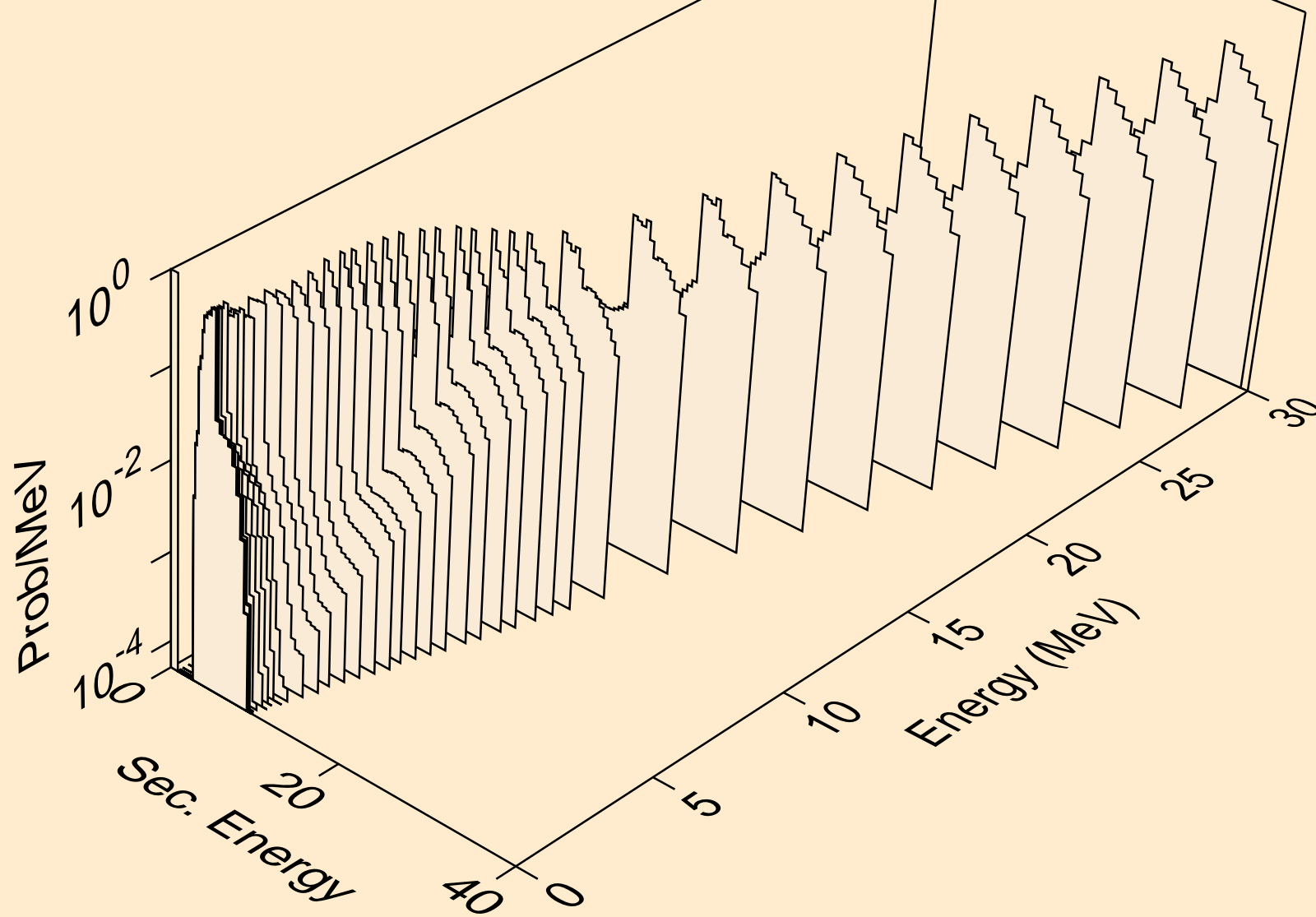
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protons from (n,n2p)



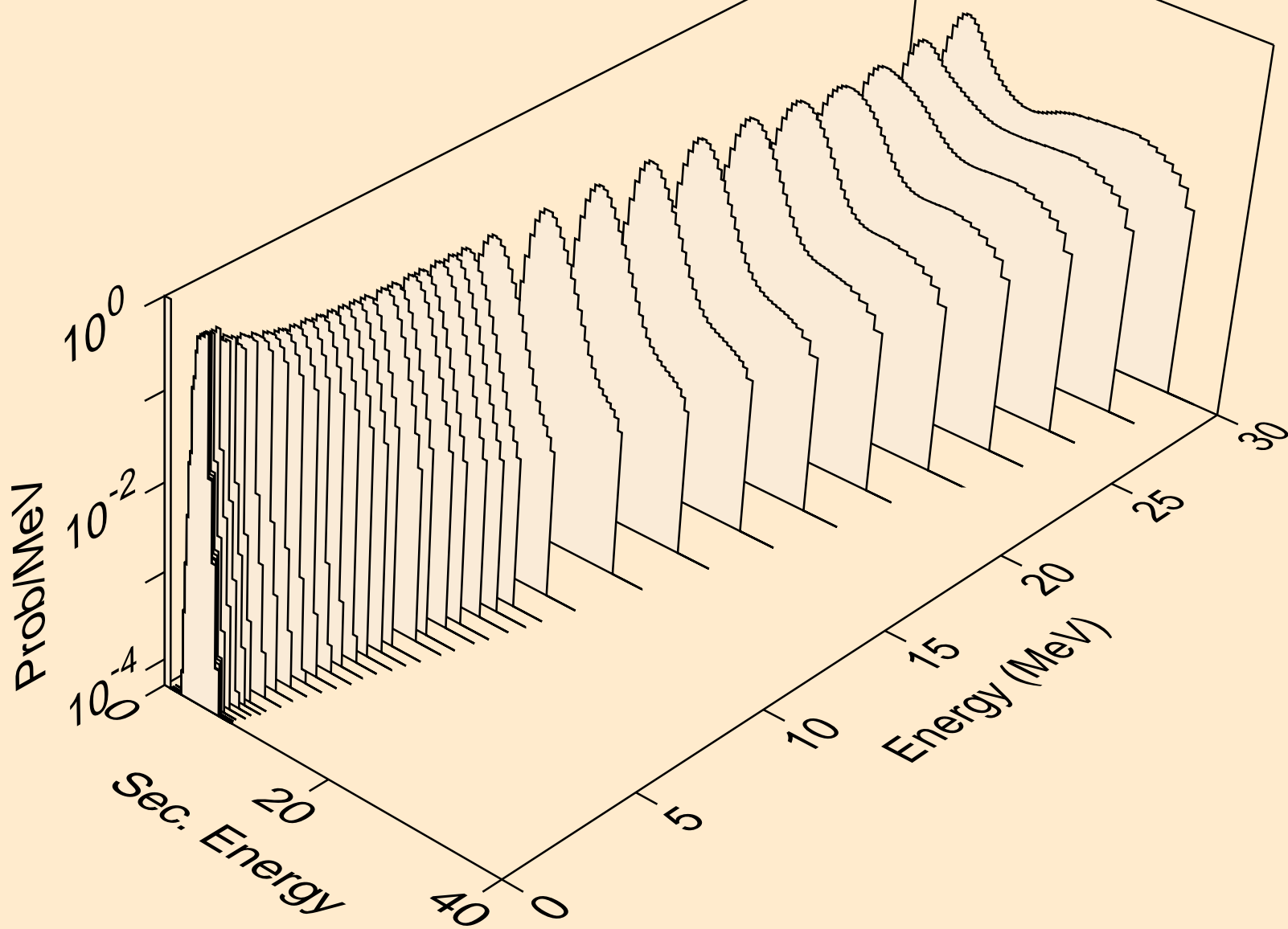
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protons from (n,npa)



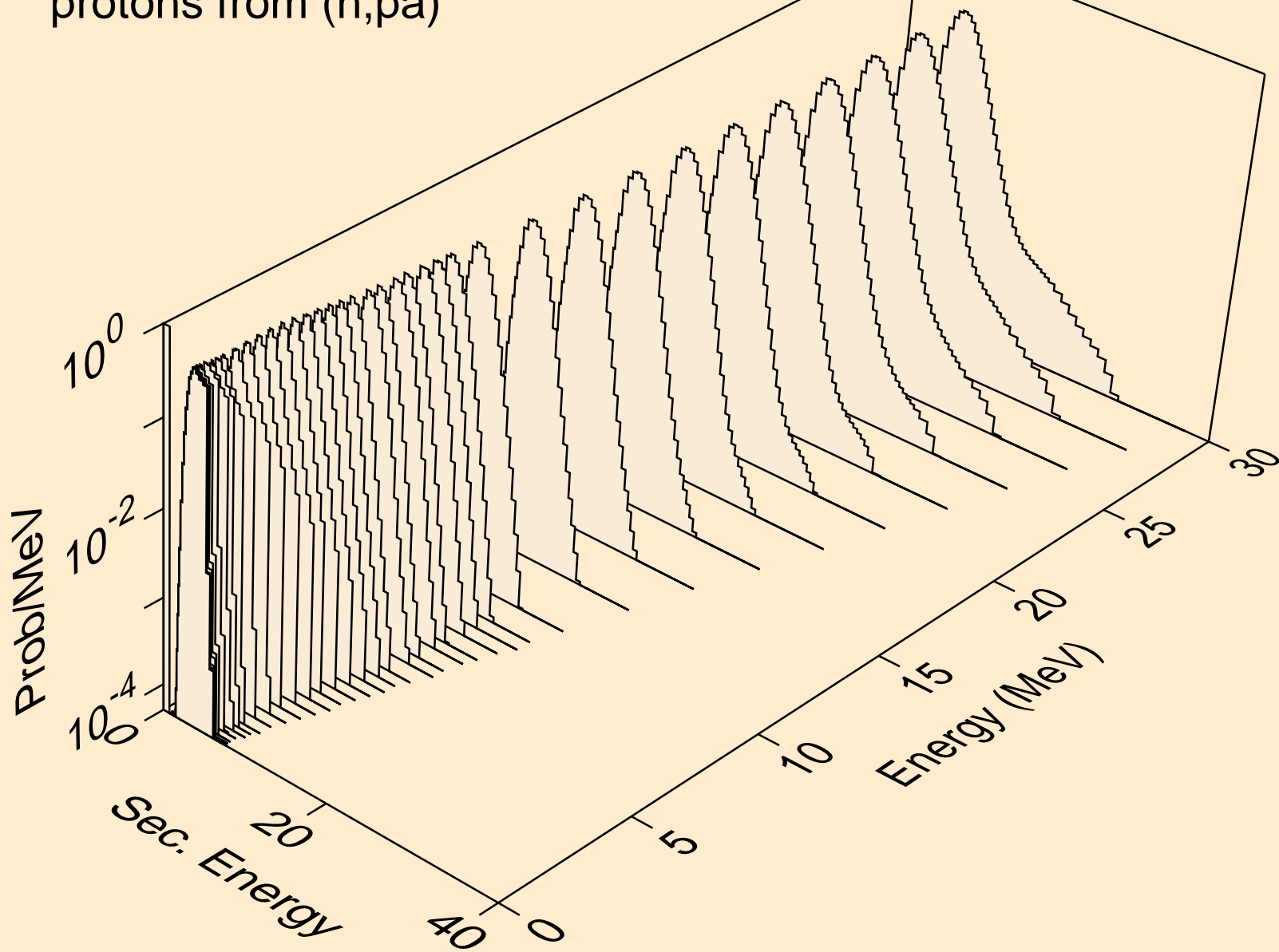
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protons from (n,p)



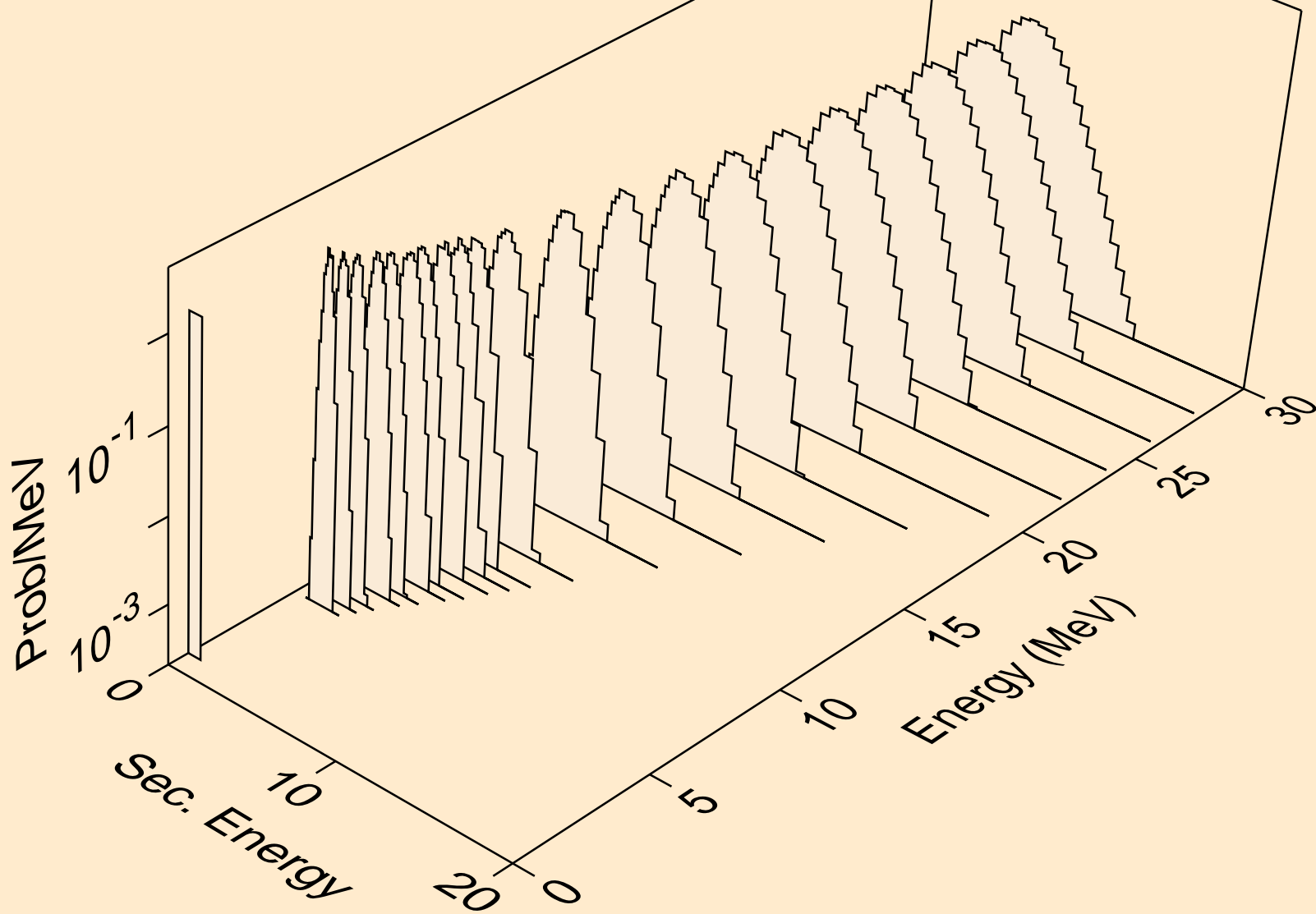
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protons from (n,2p)



GD137 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
protons from (n,p)

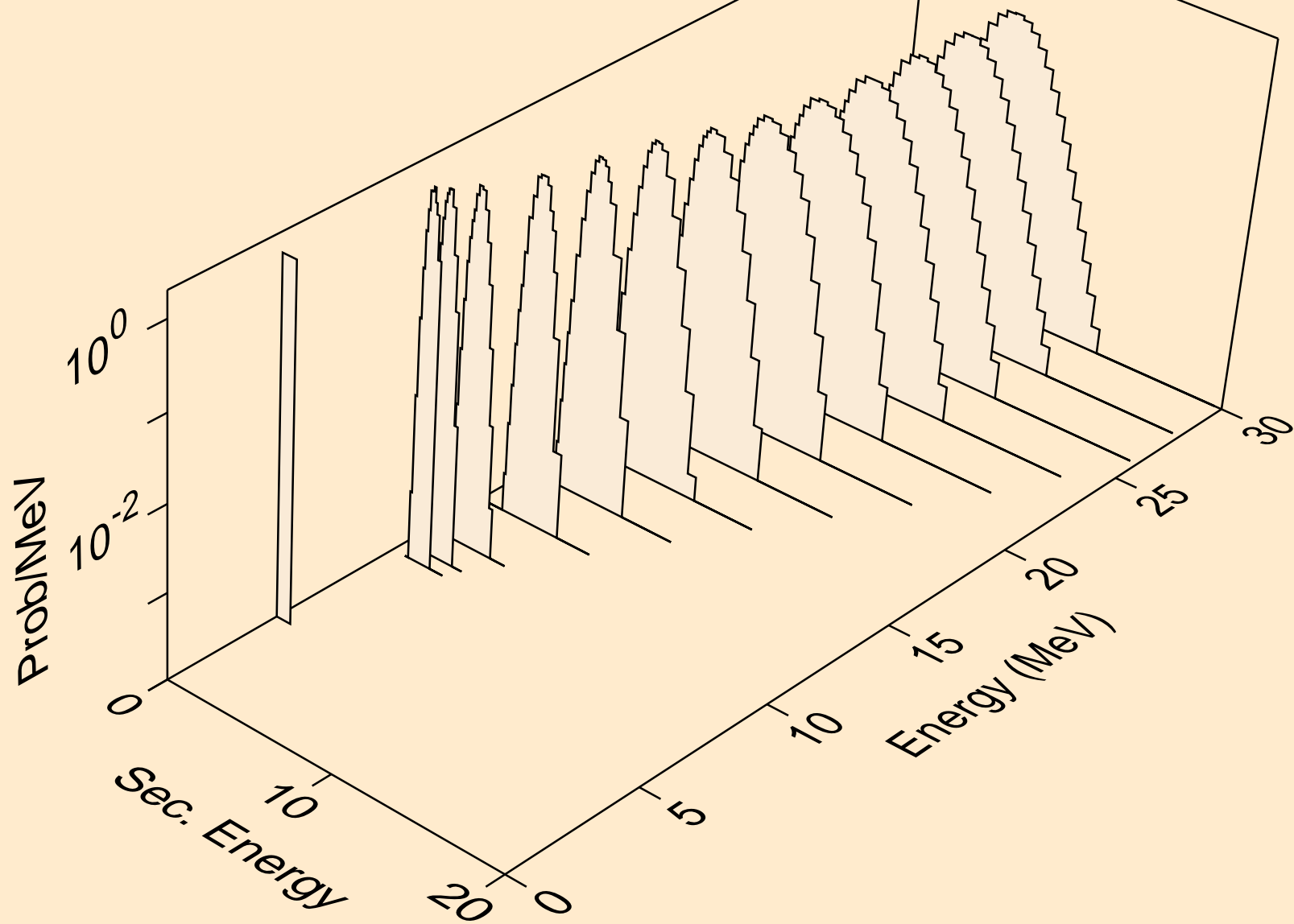


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protons from (n,pd)

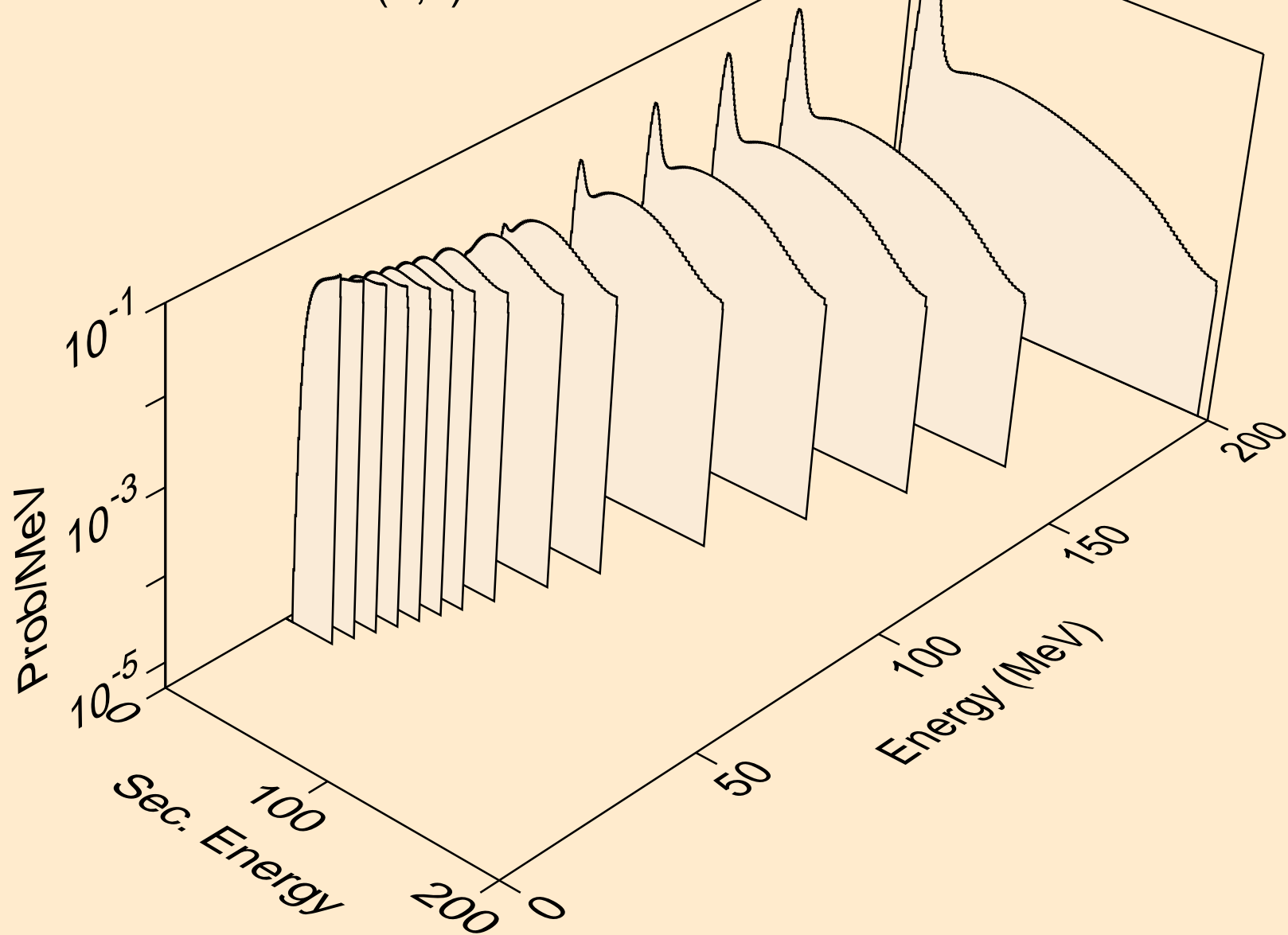




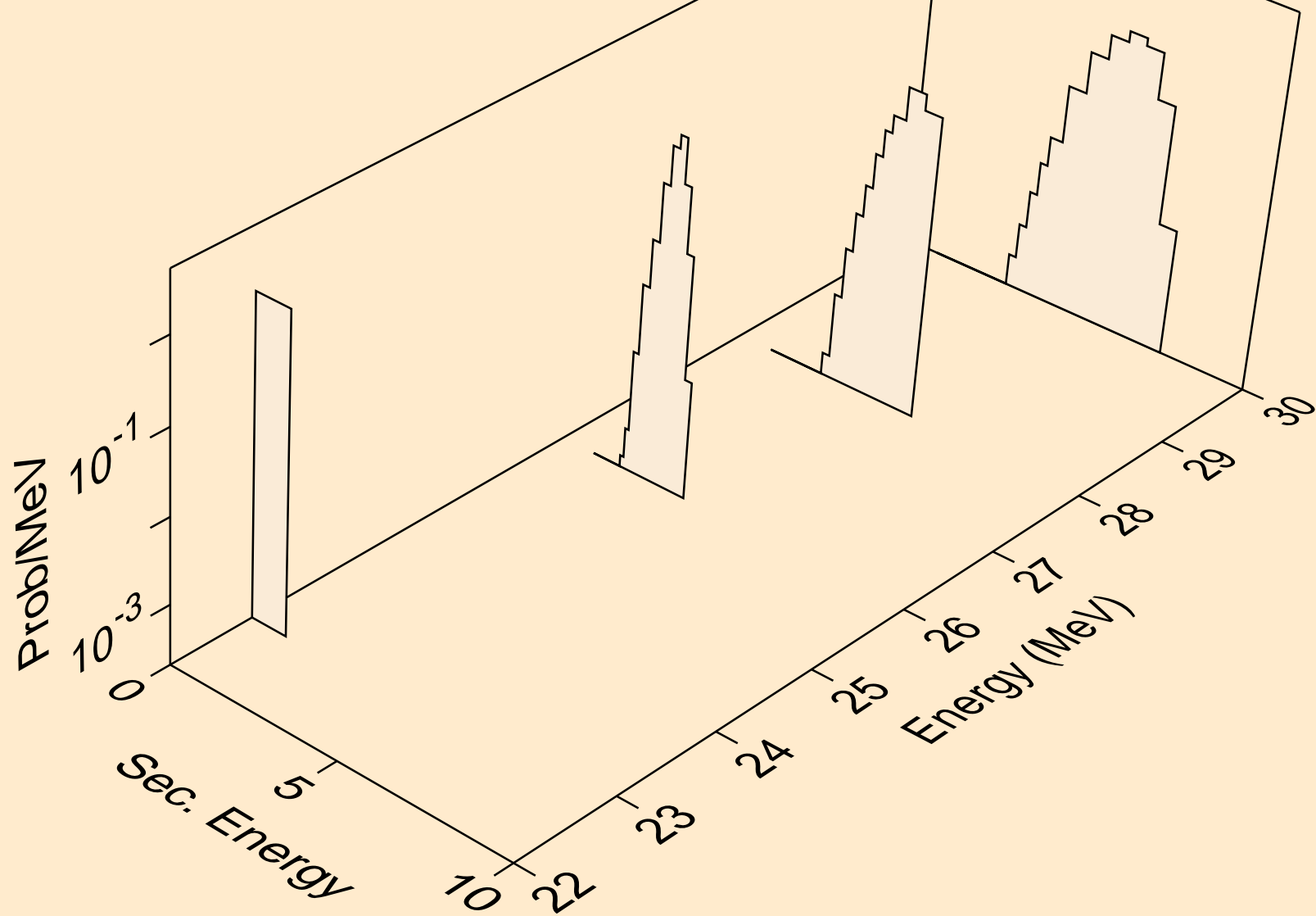
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protons from (n,pt)



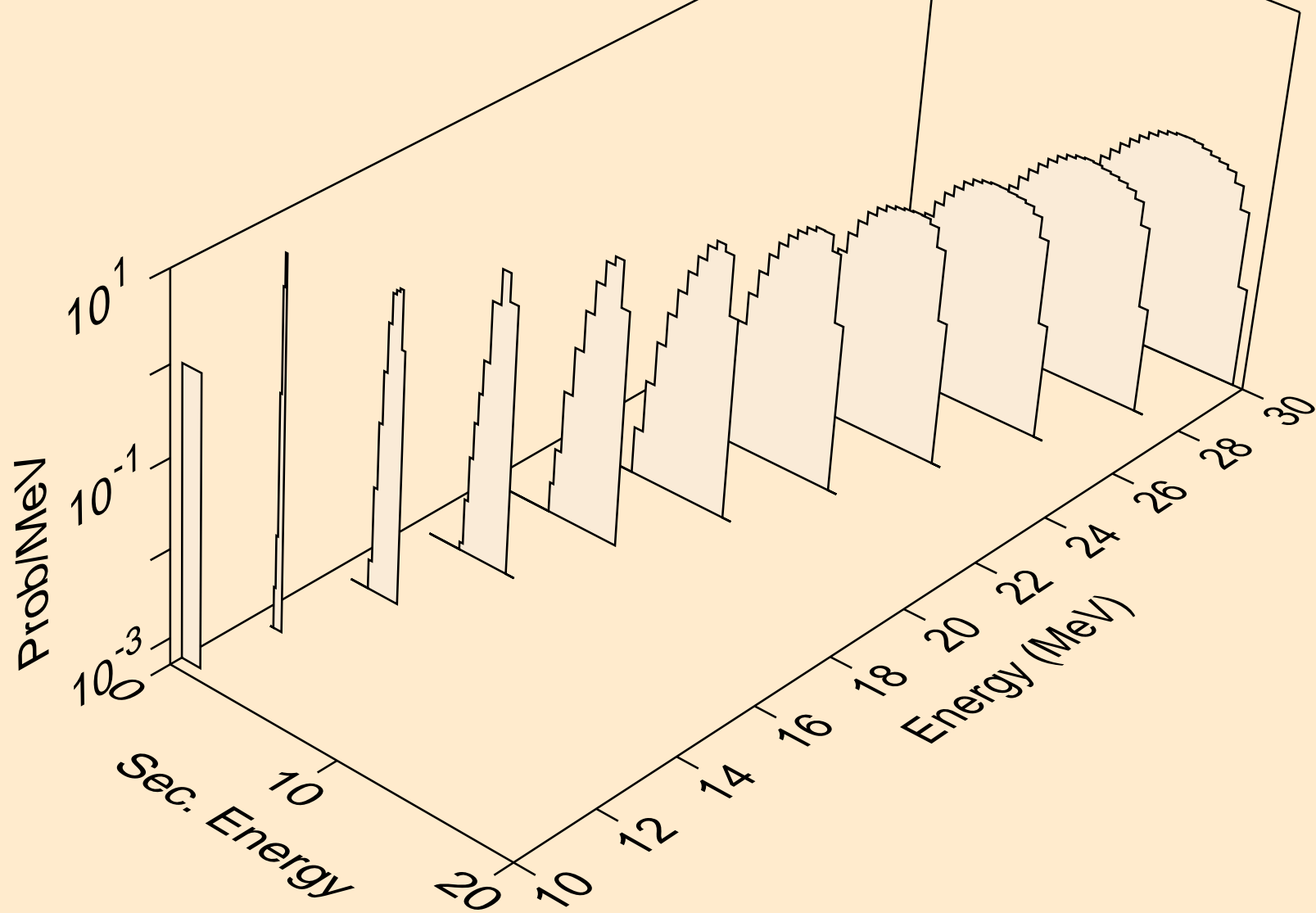
GD137 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
deuterons from (n,x)



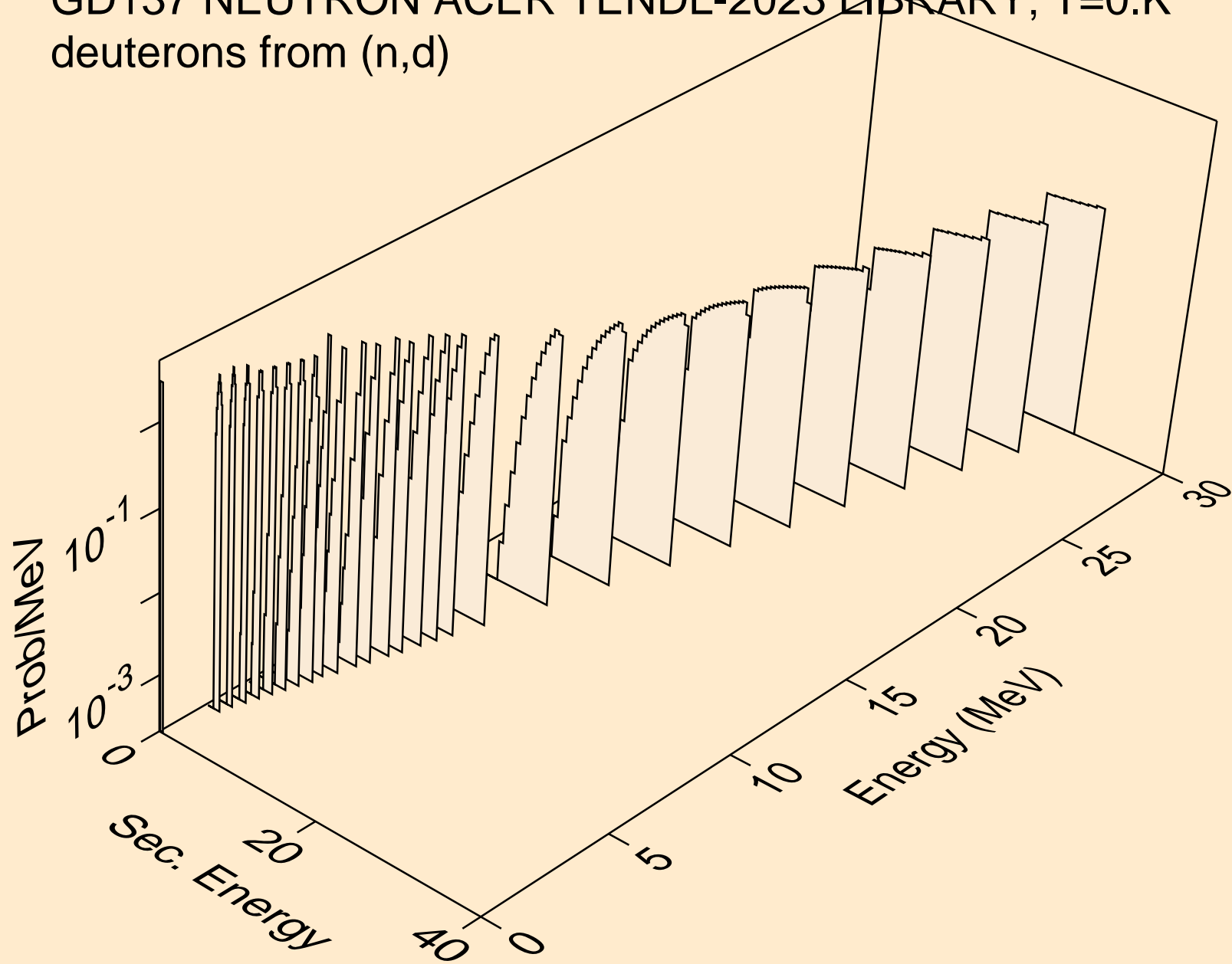
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deuterons from (n,2nd)



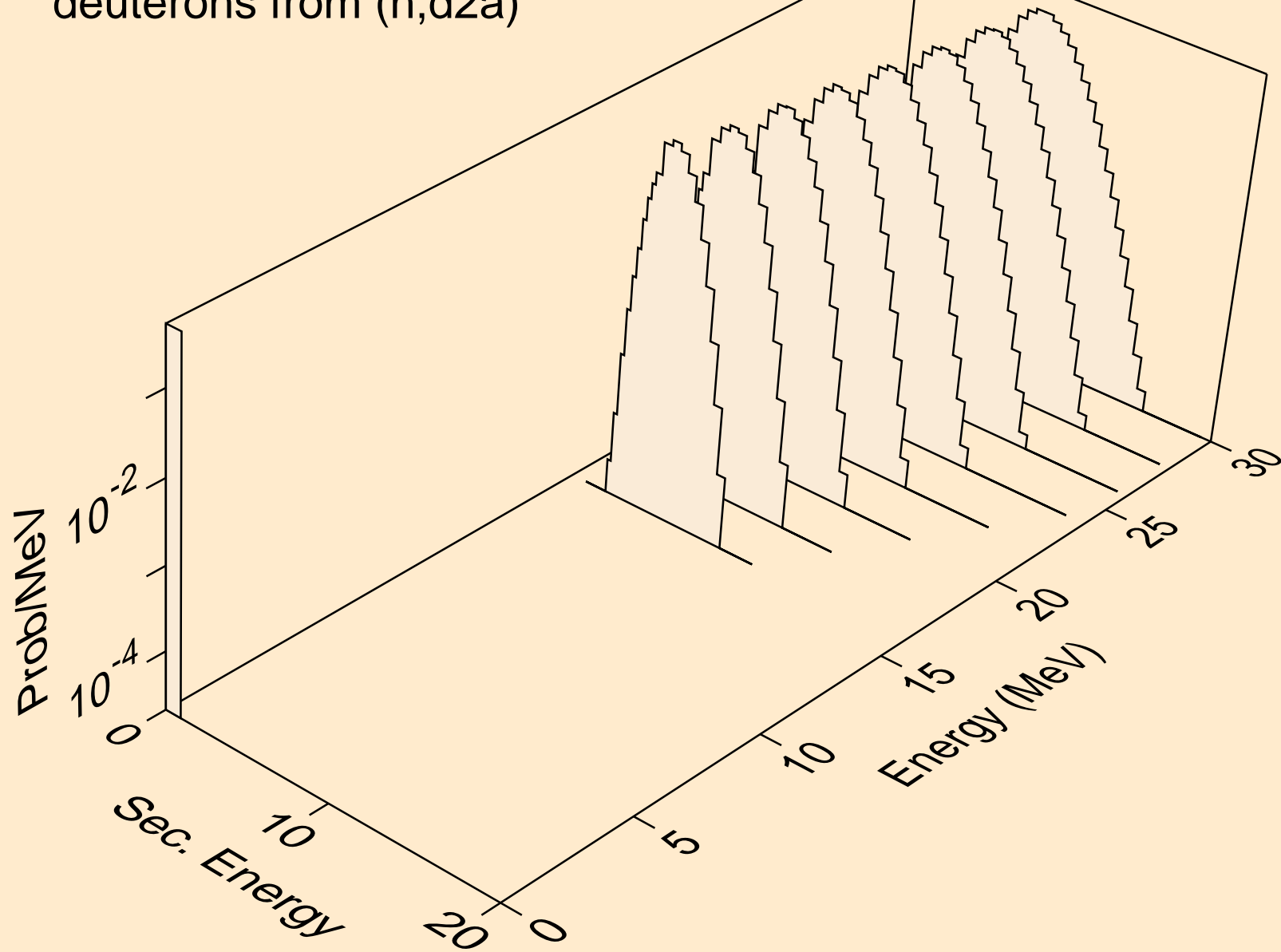
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deuterons from (n,n\*)d



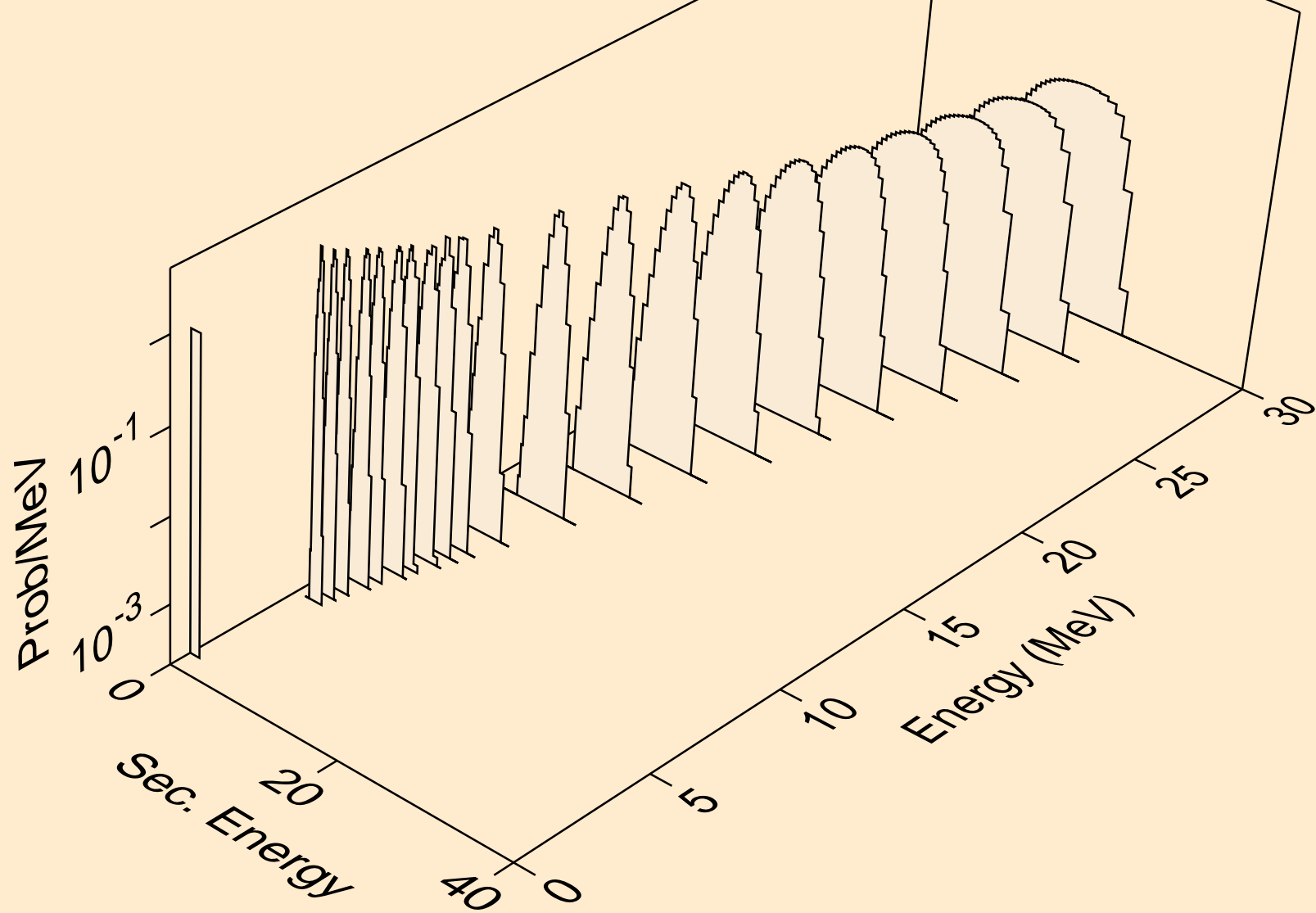
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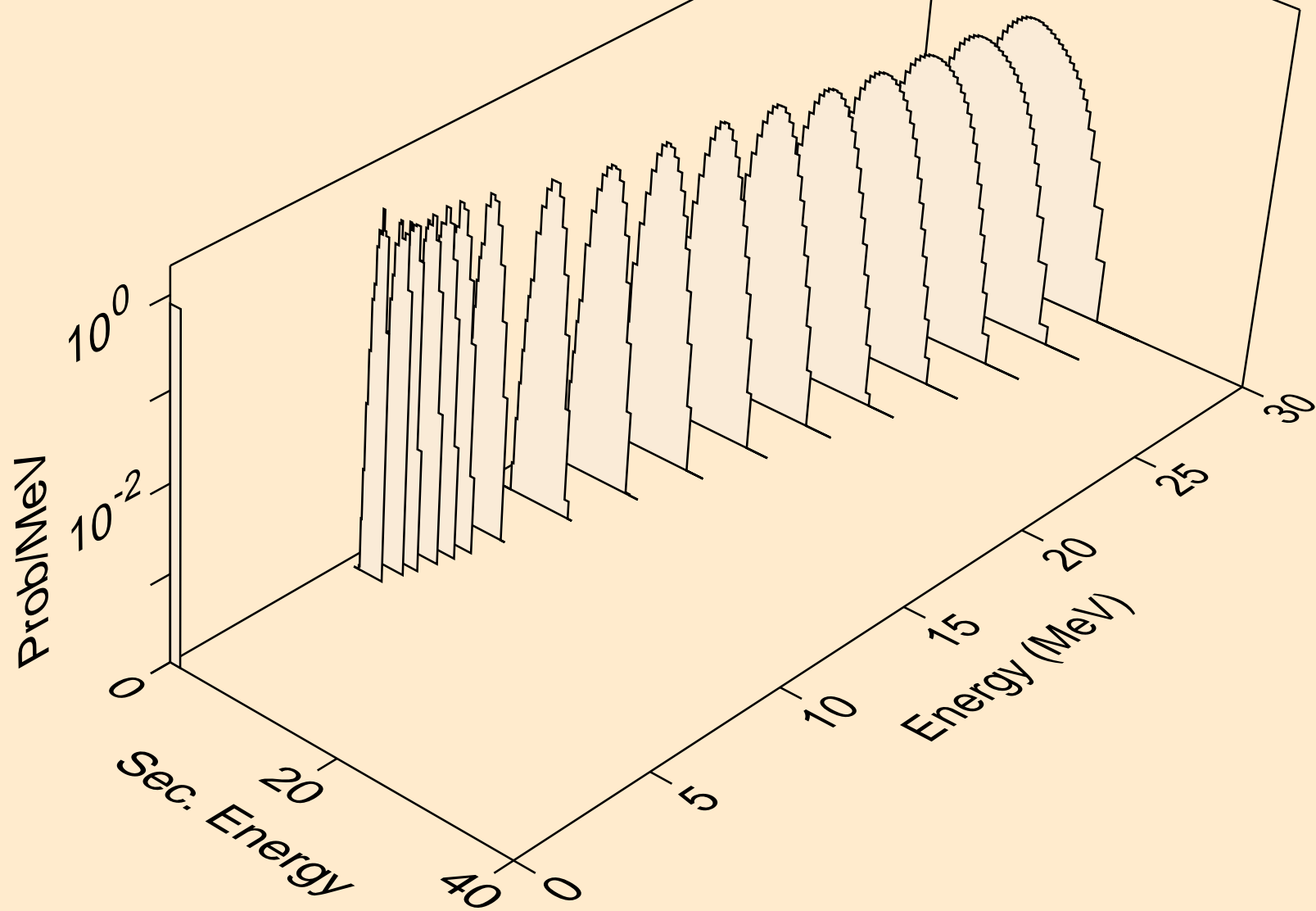
GD137 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
deuterons from (n,d2a)



GD137 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
deuterons from (n,pd)

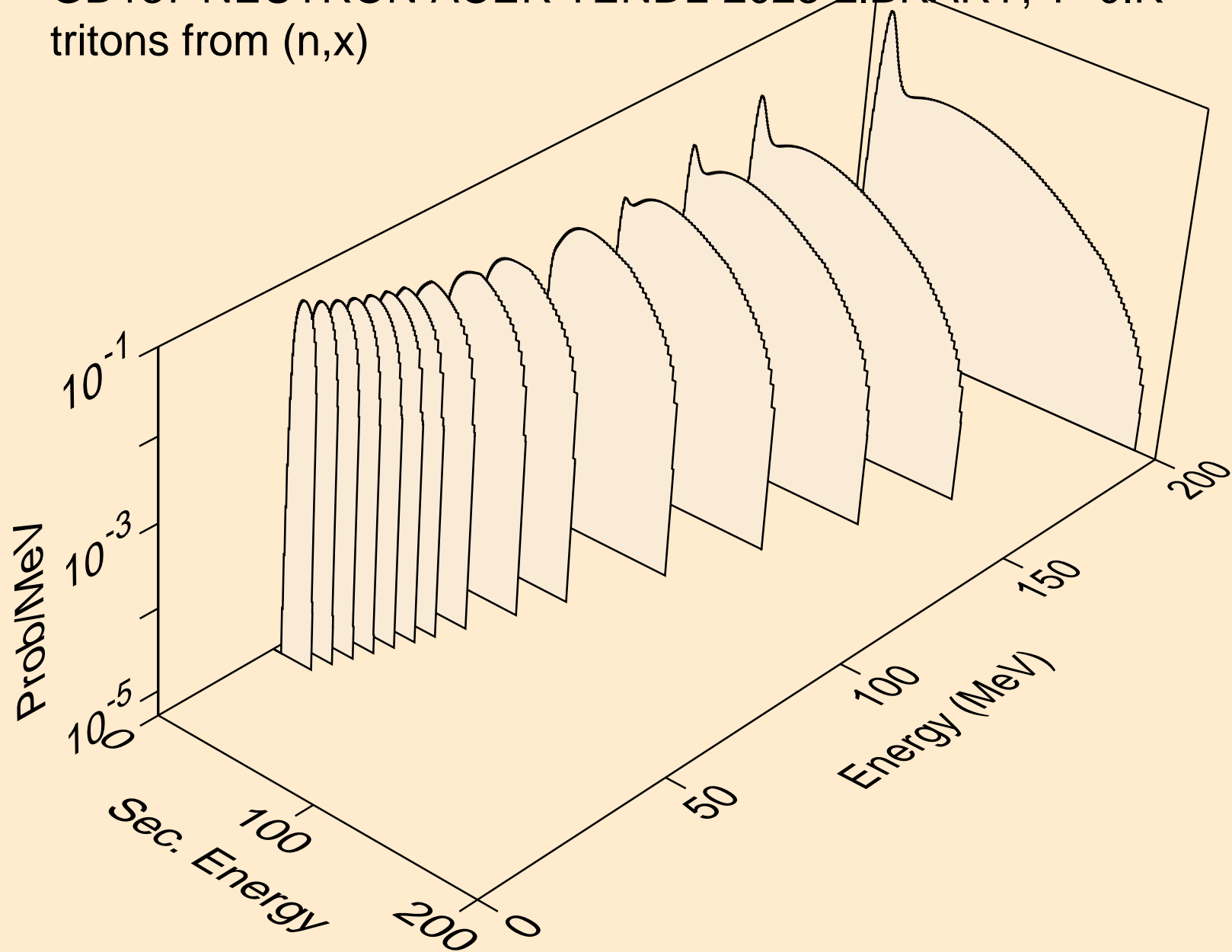


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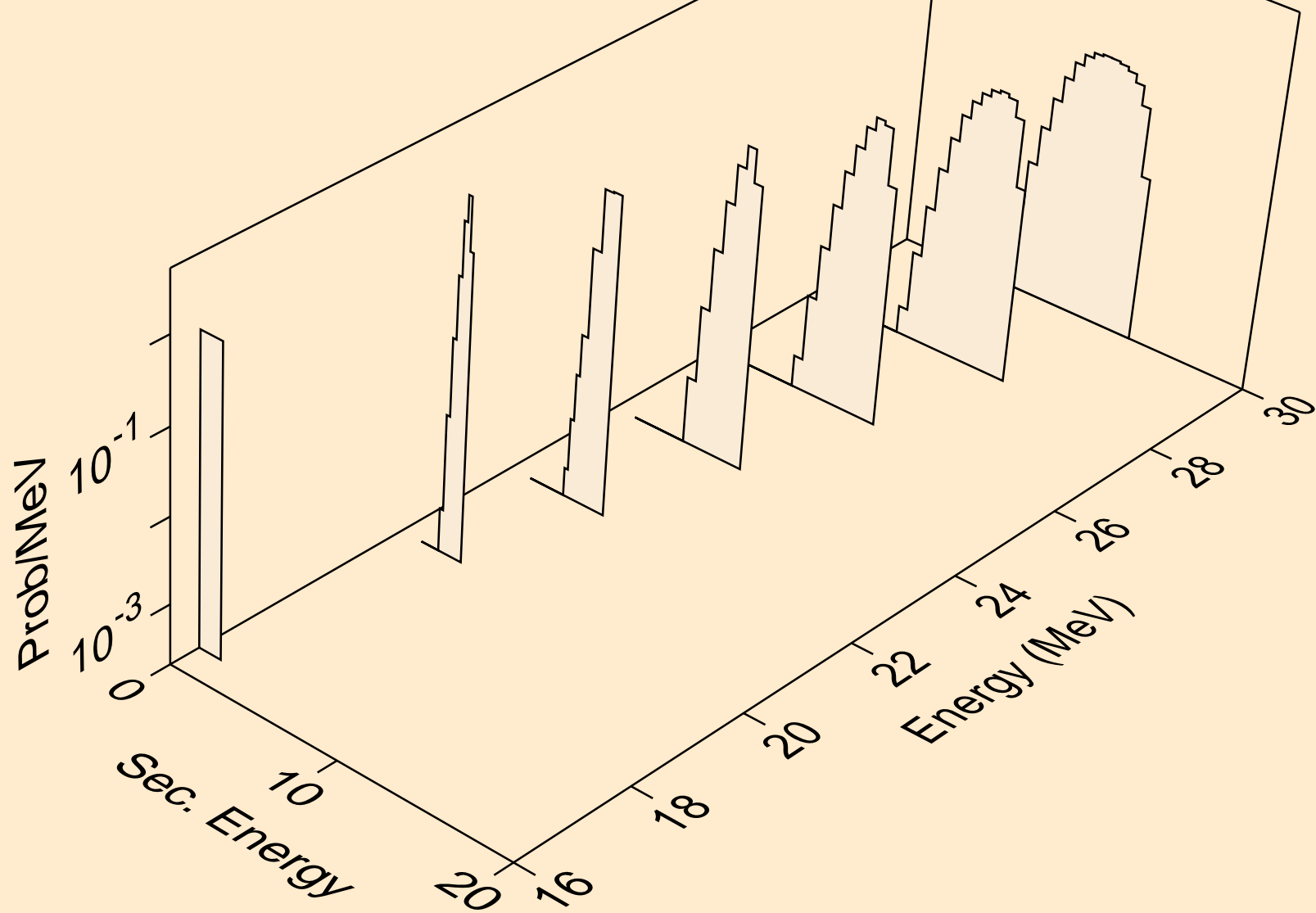




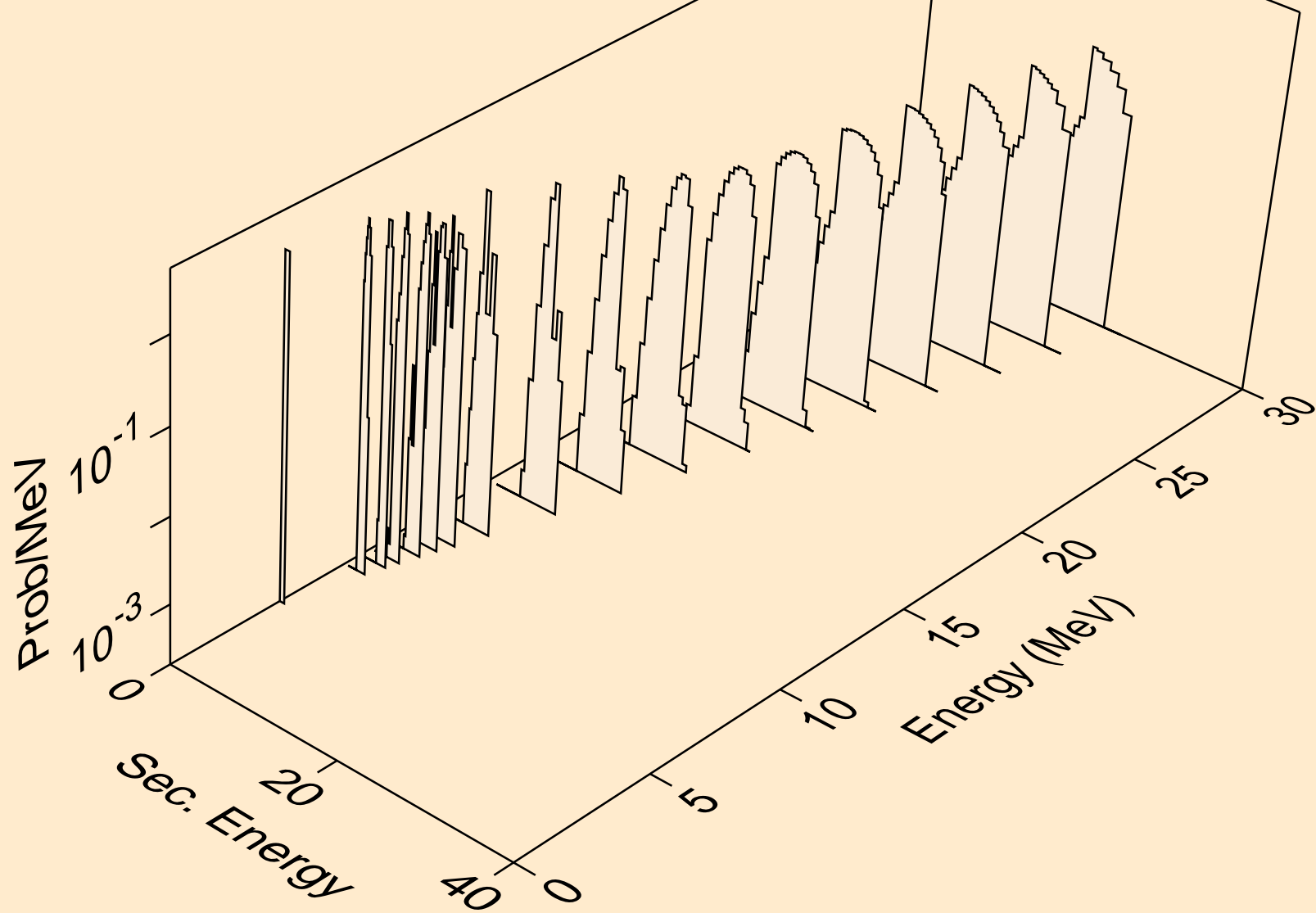
GD137 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
tritons from (n,x)



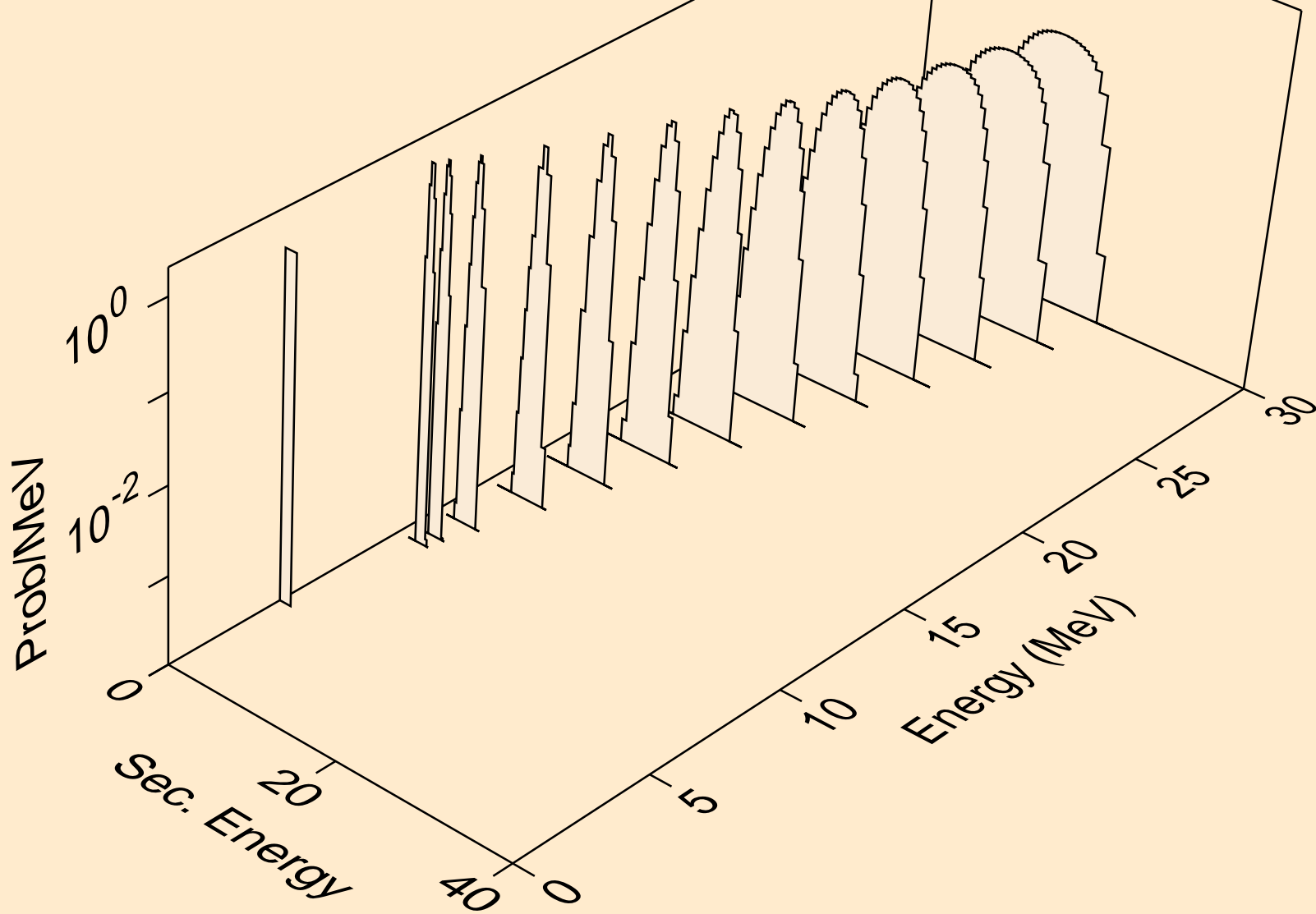
GD137 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
tritons from (n,n\*)t



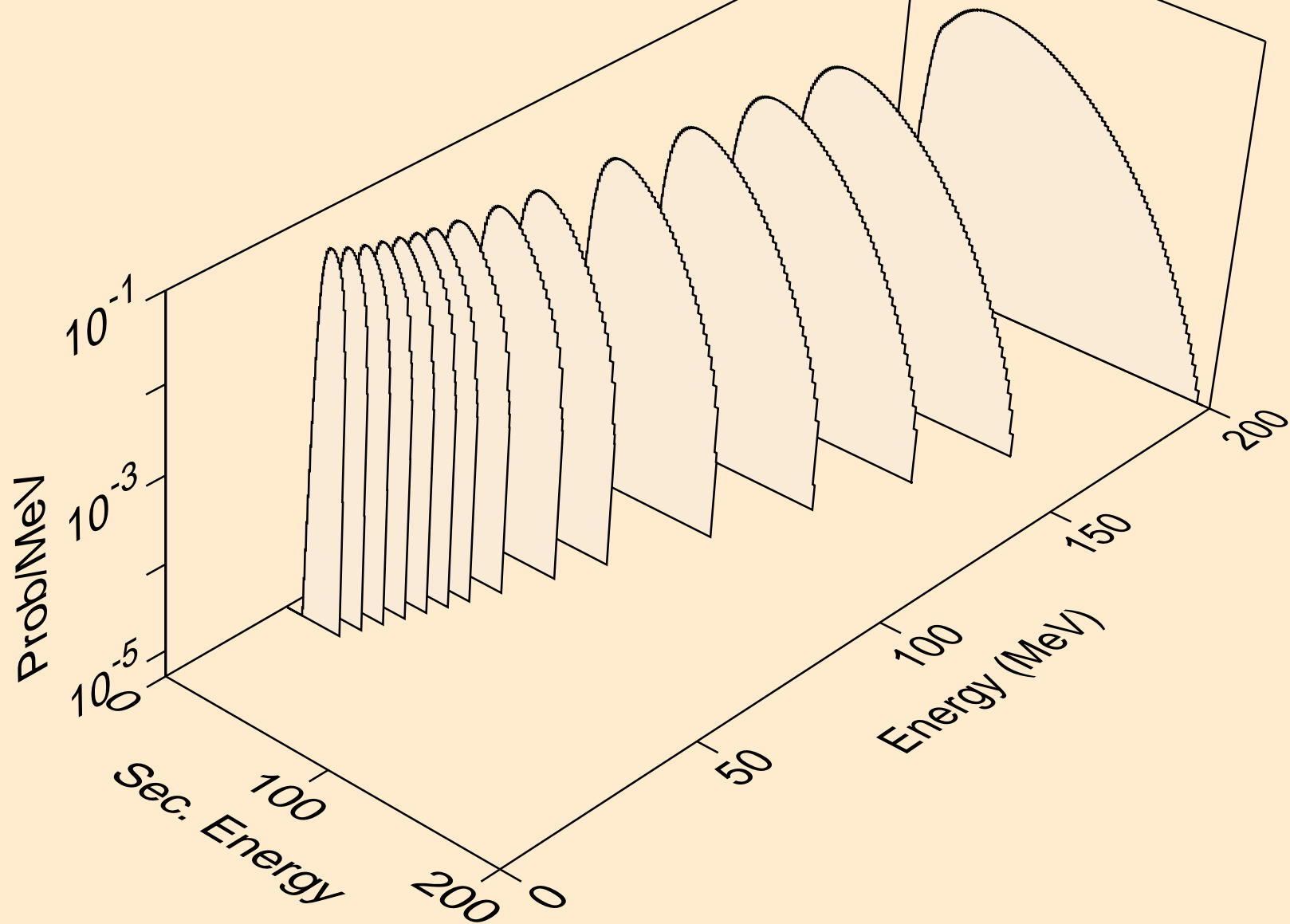
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tritons from (n,t)



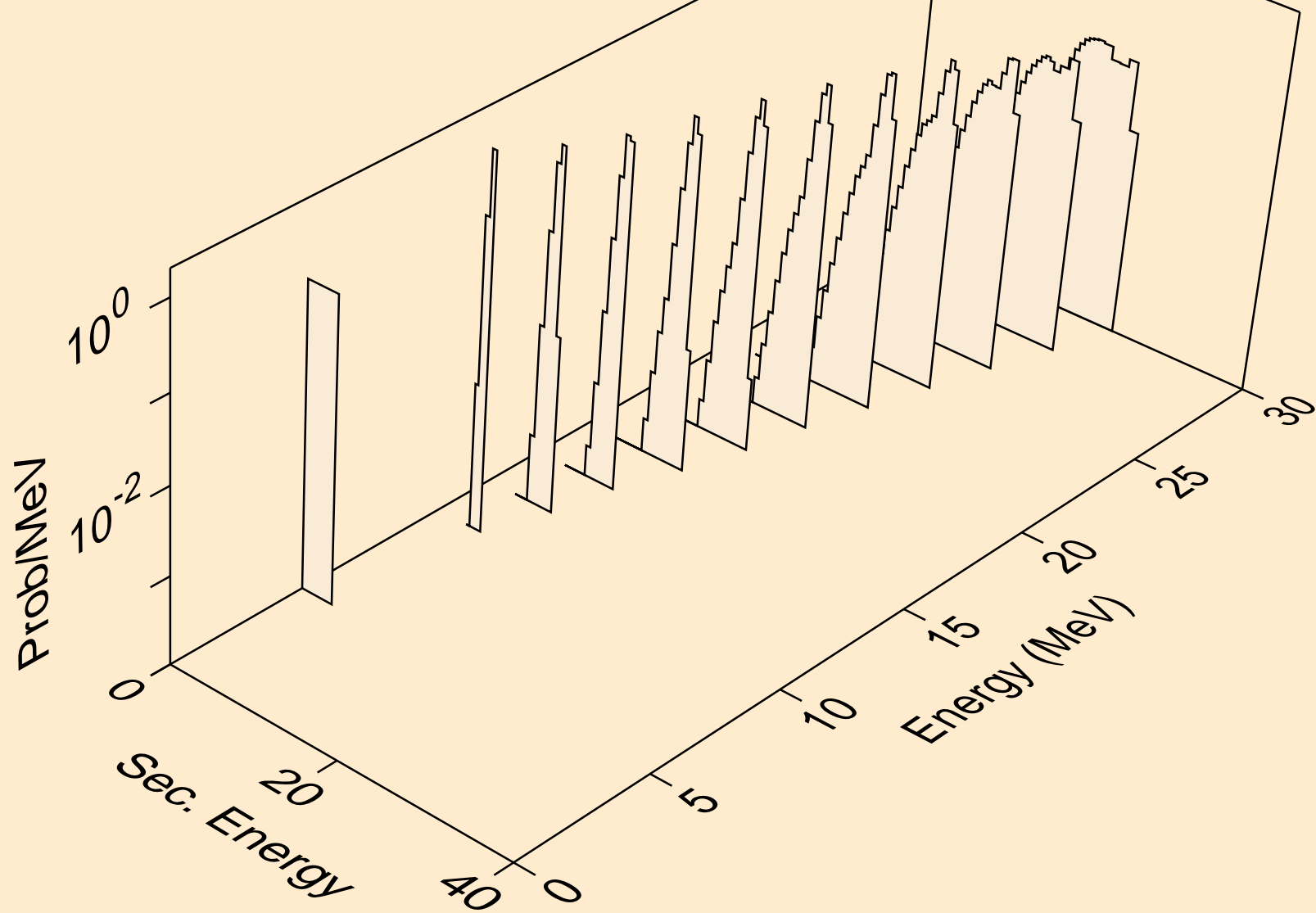
GD137 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
tritons from (n,pt)



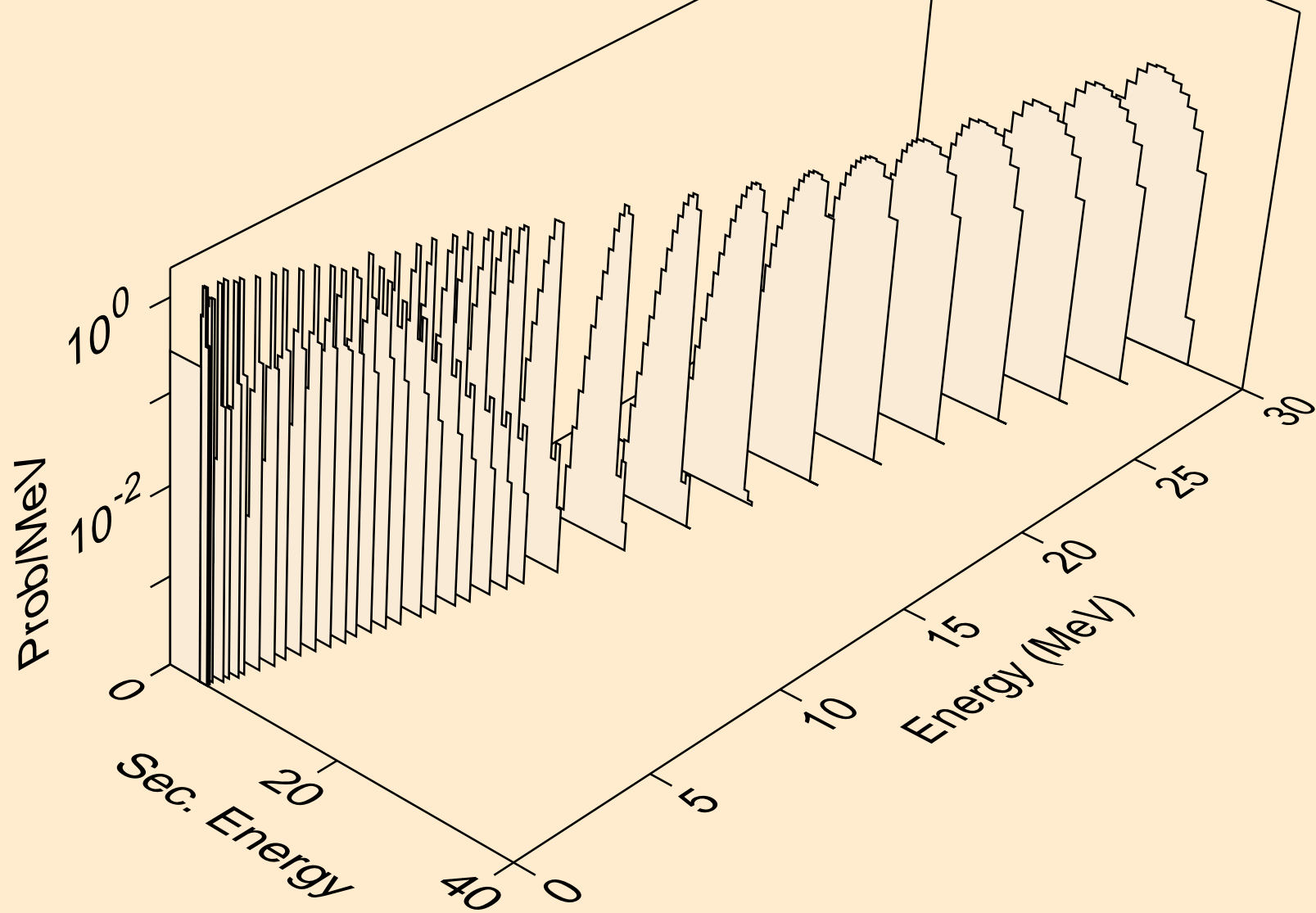
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he3s from (n,x)



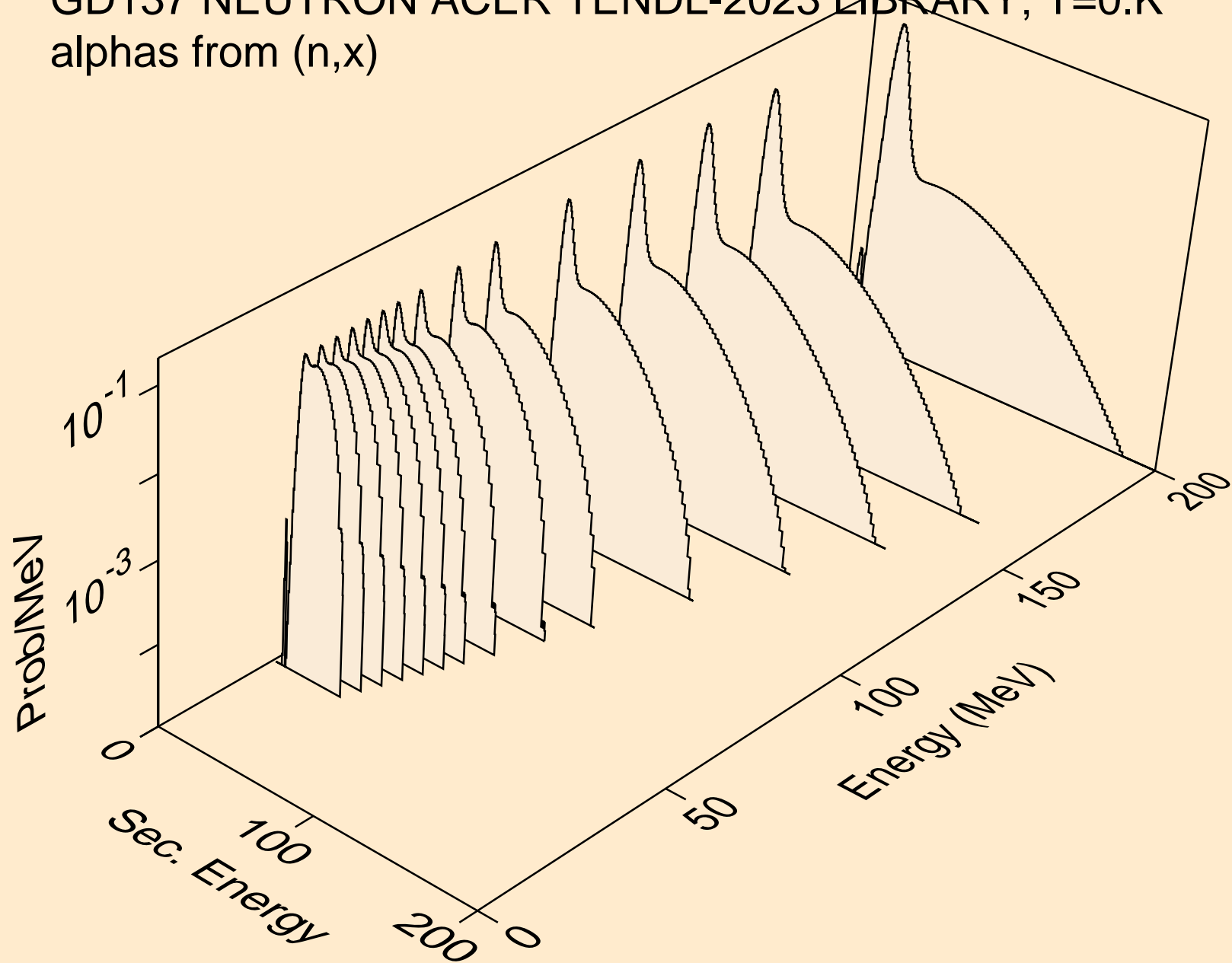
GD137 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
he3s from (n,n\*)he3



GD137 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
he3s from (n,he3)

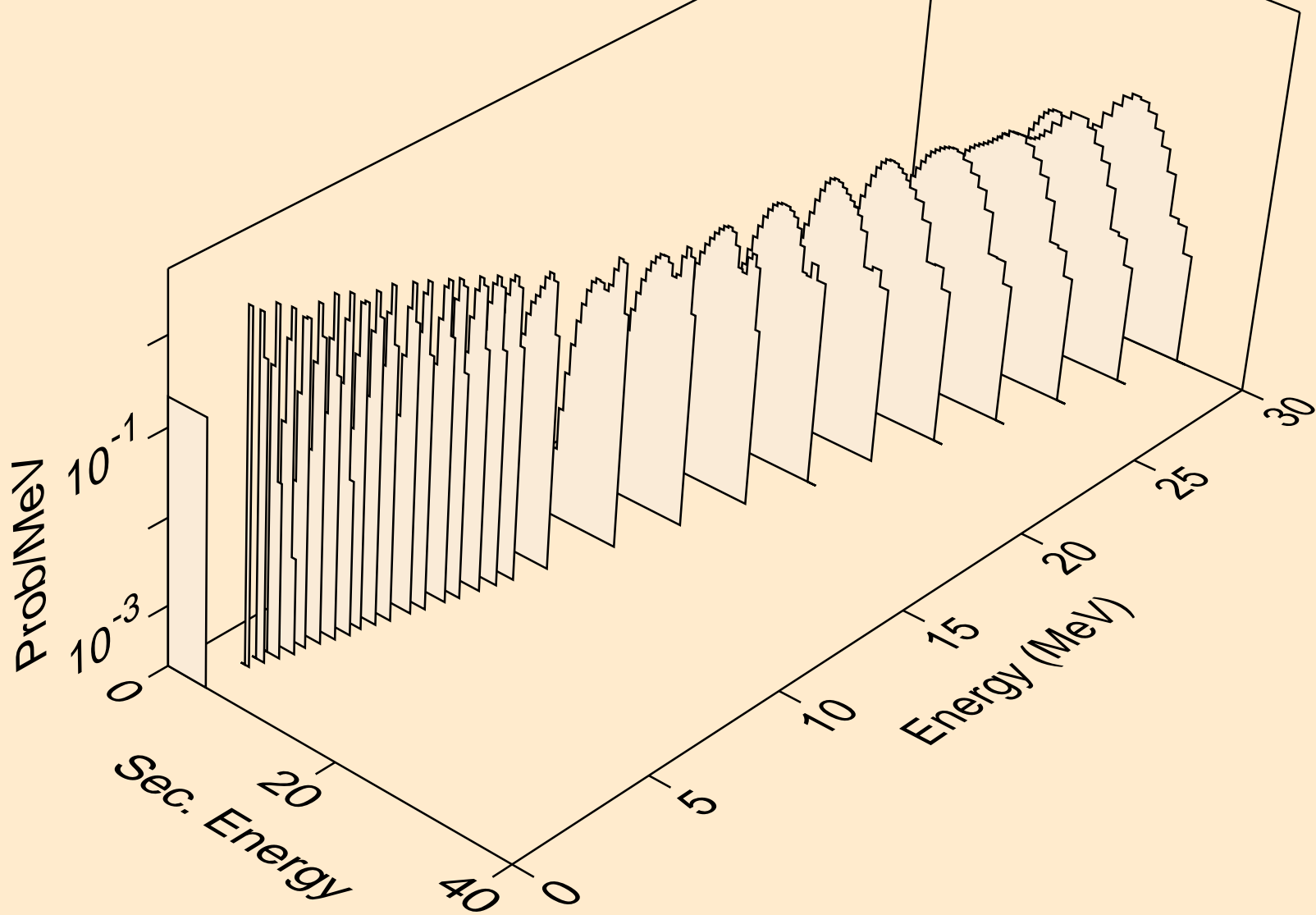


GD137 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,x)

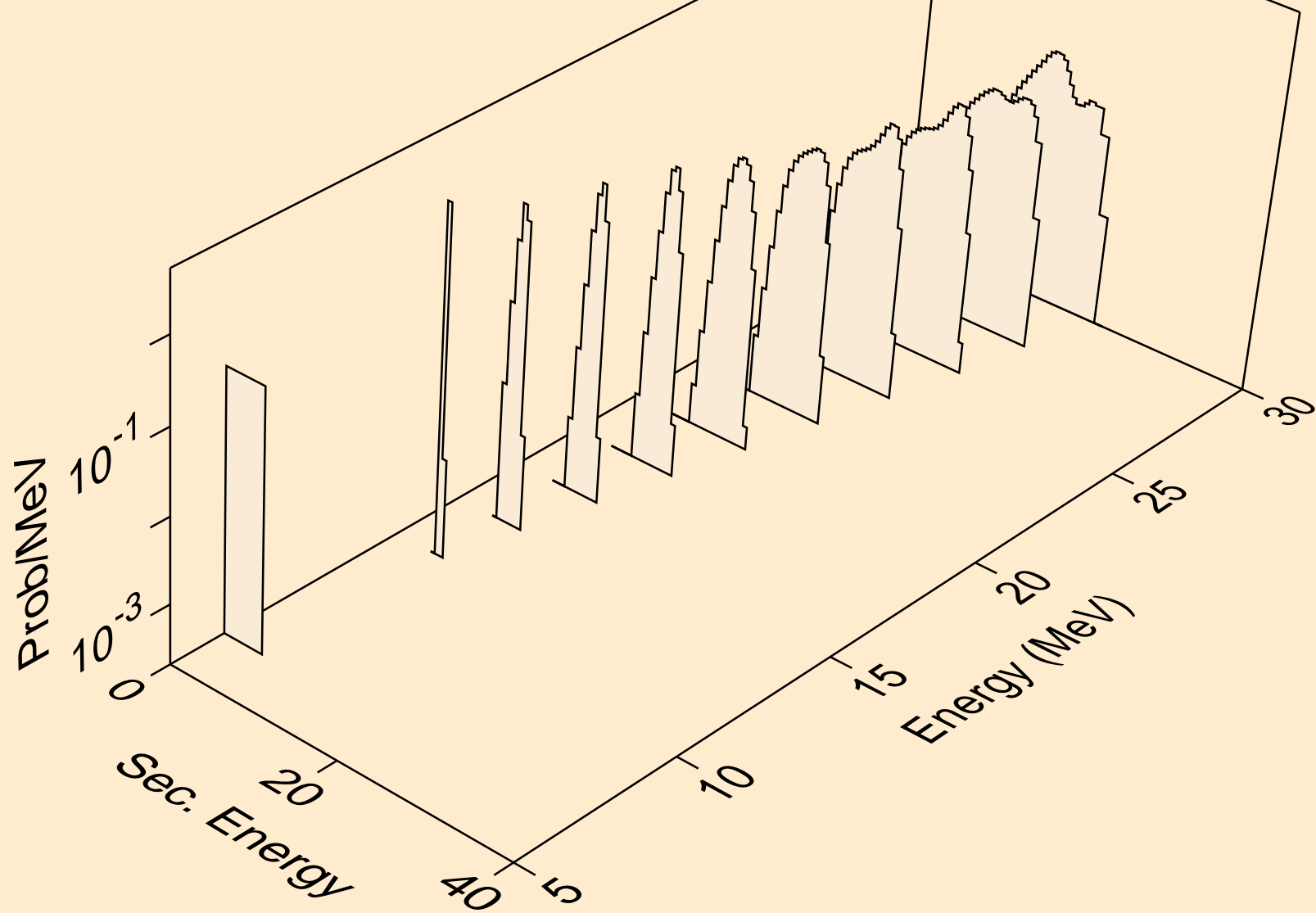




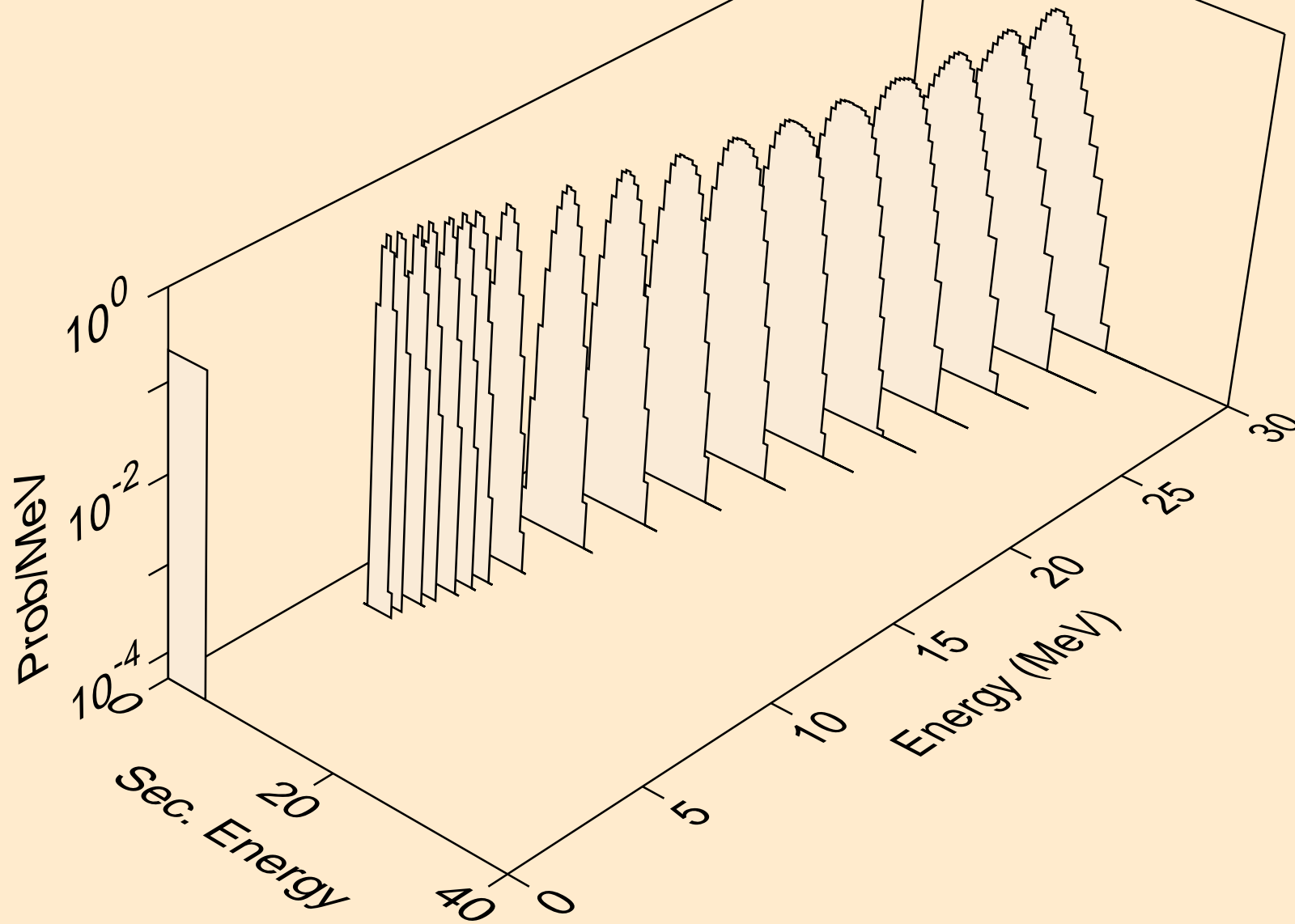
GD137 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,n\*)a



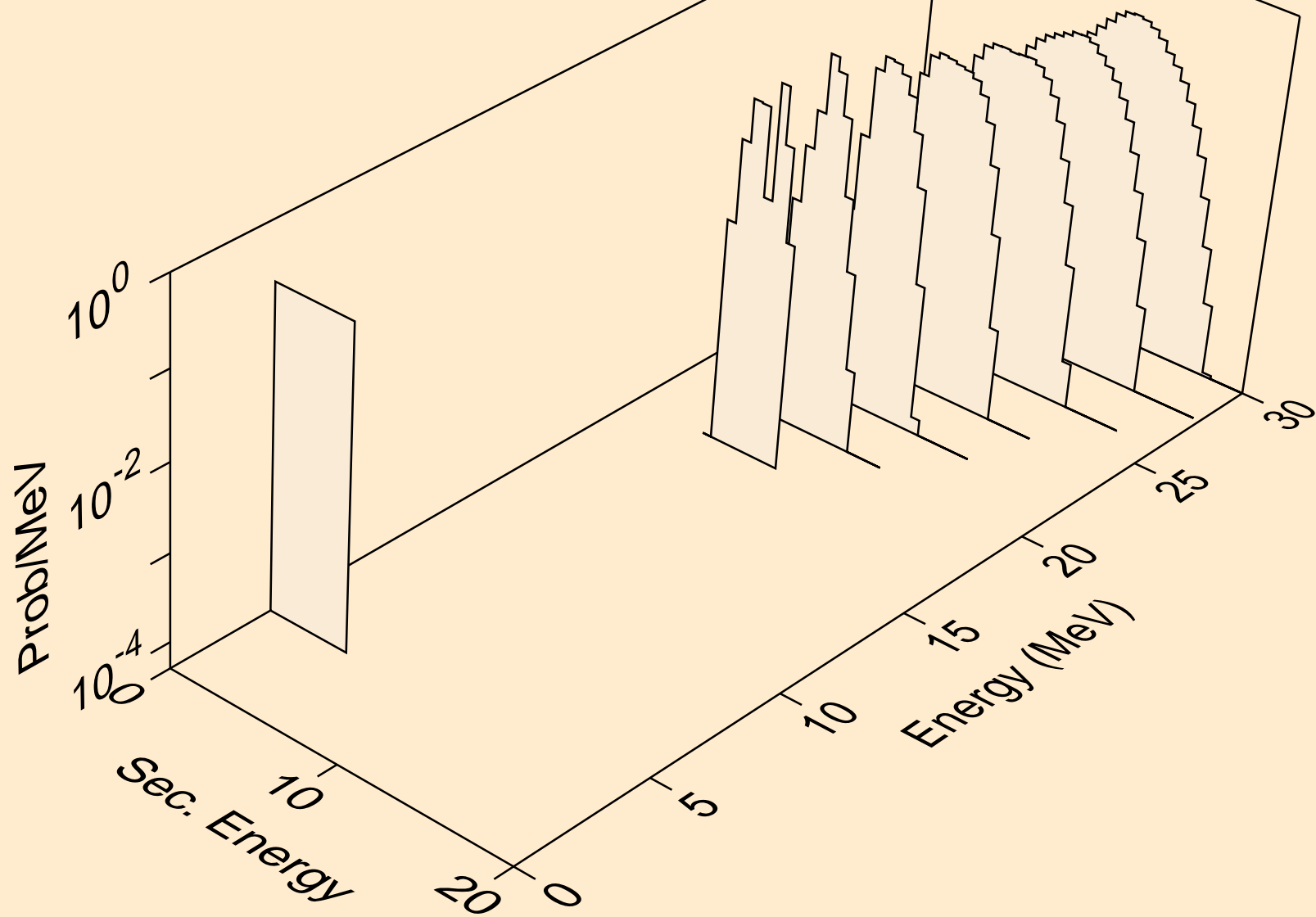
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alphas from (n,2n)a



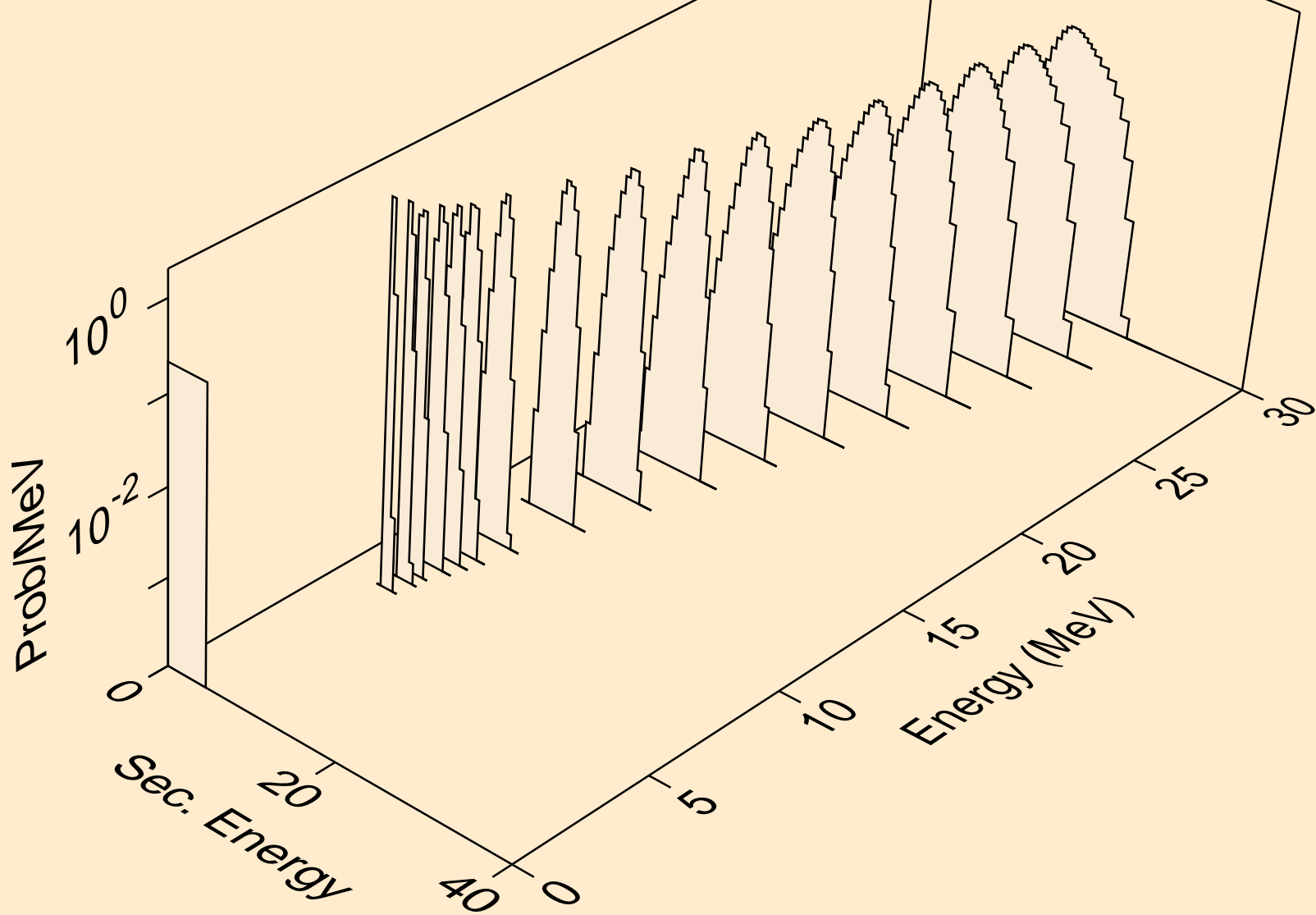
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alphas from (n,n\*)2a



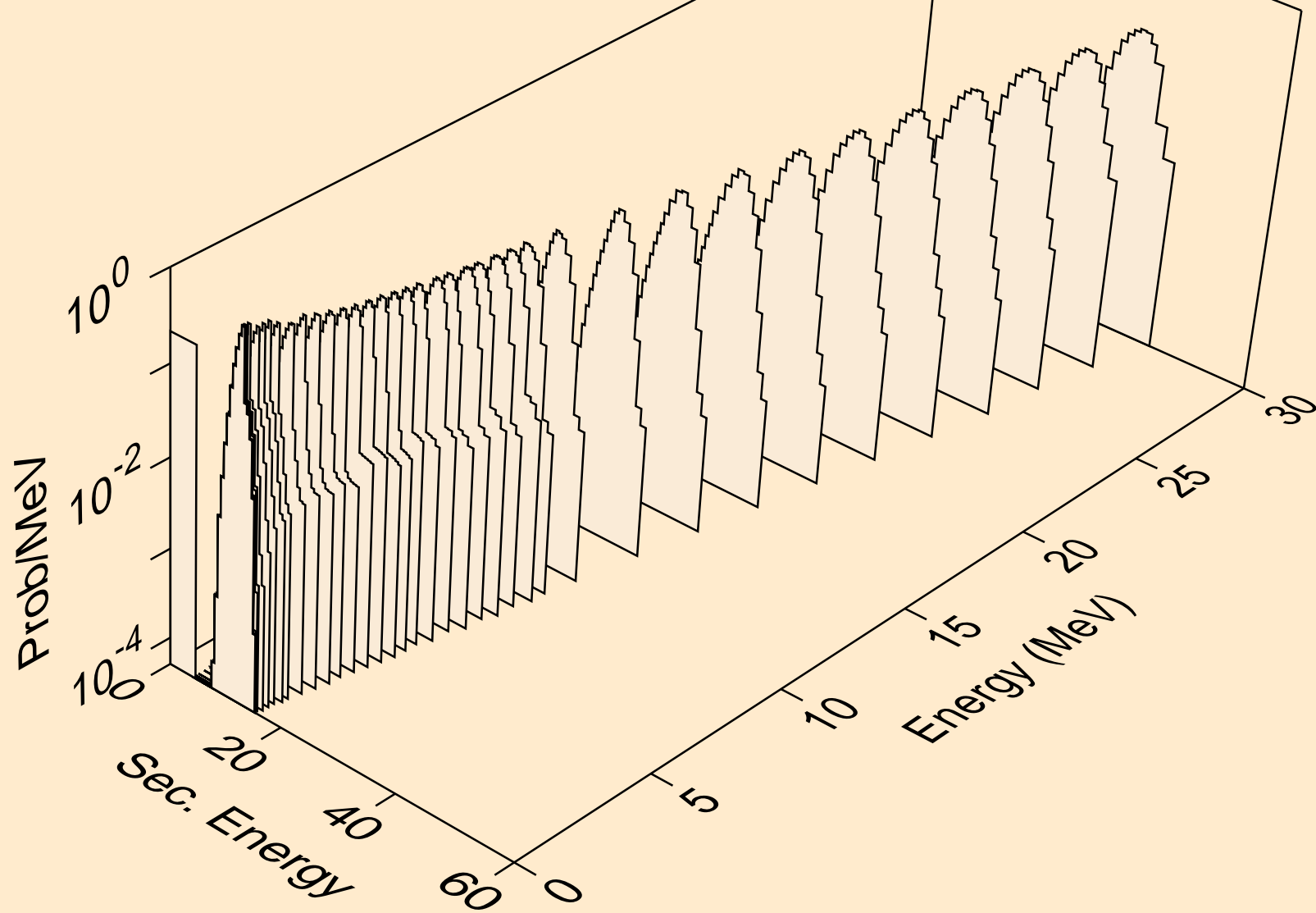
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alphas from (n,2n)2a



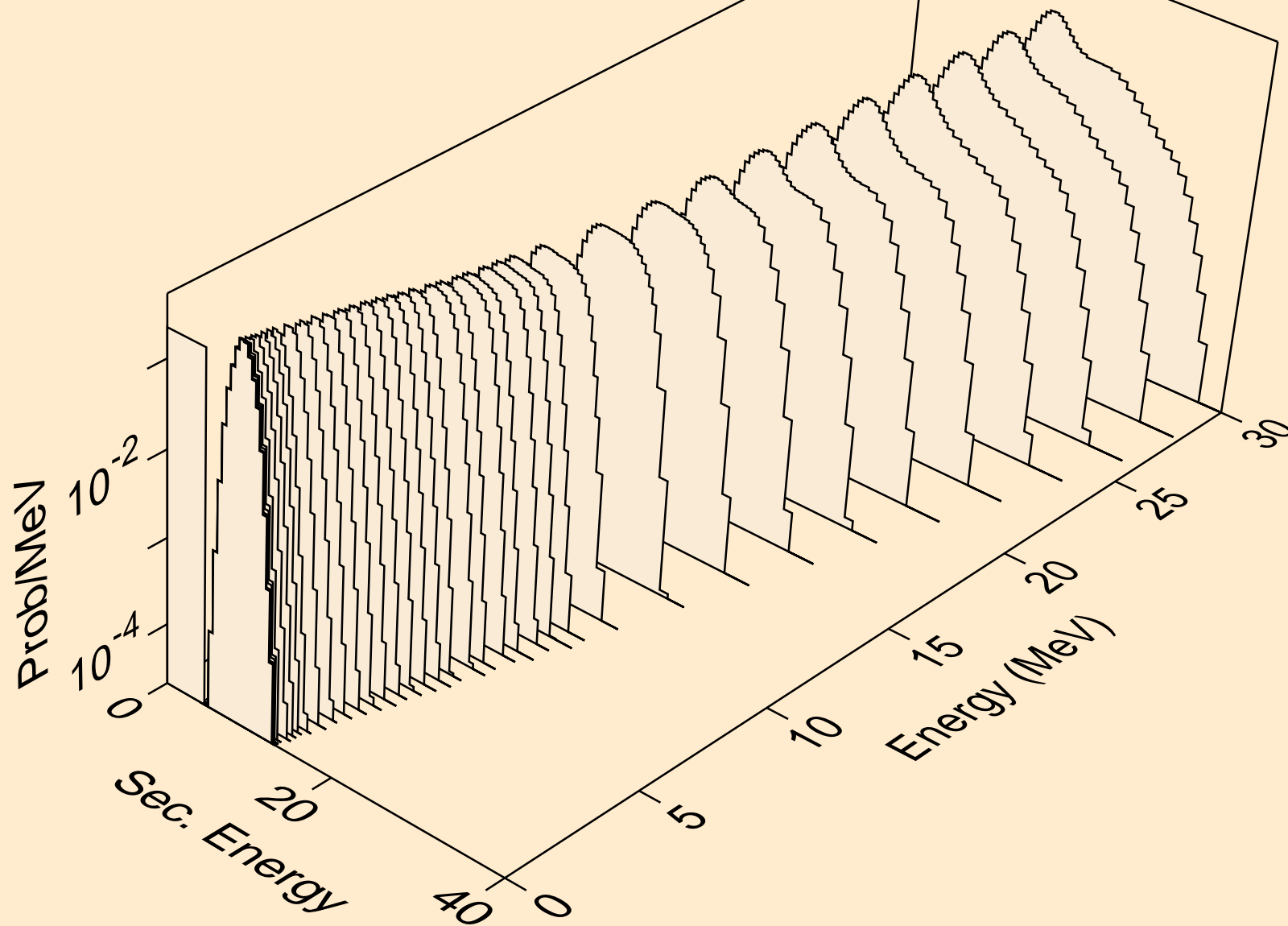
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alphas from (n,npa)



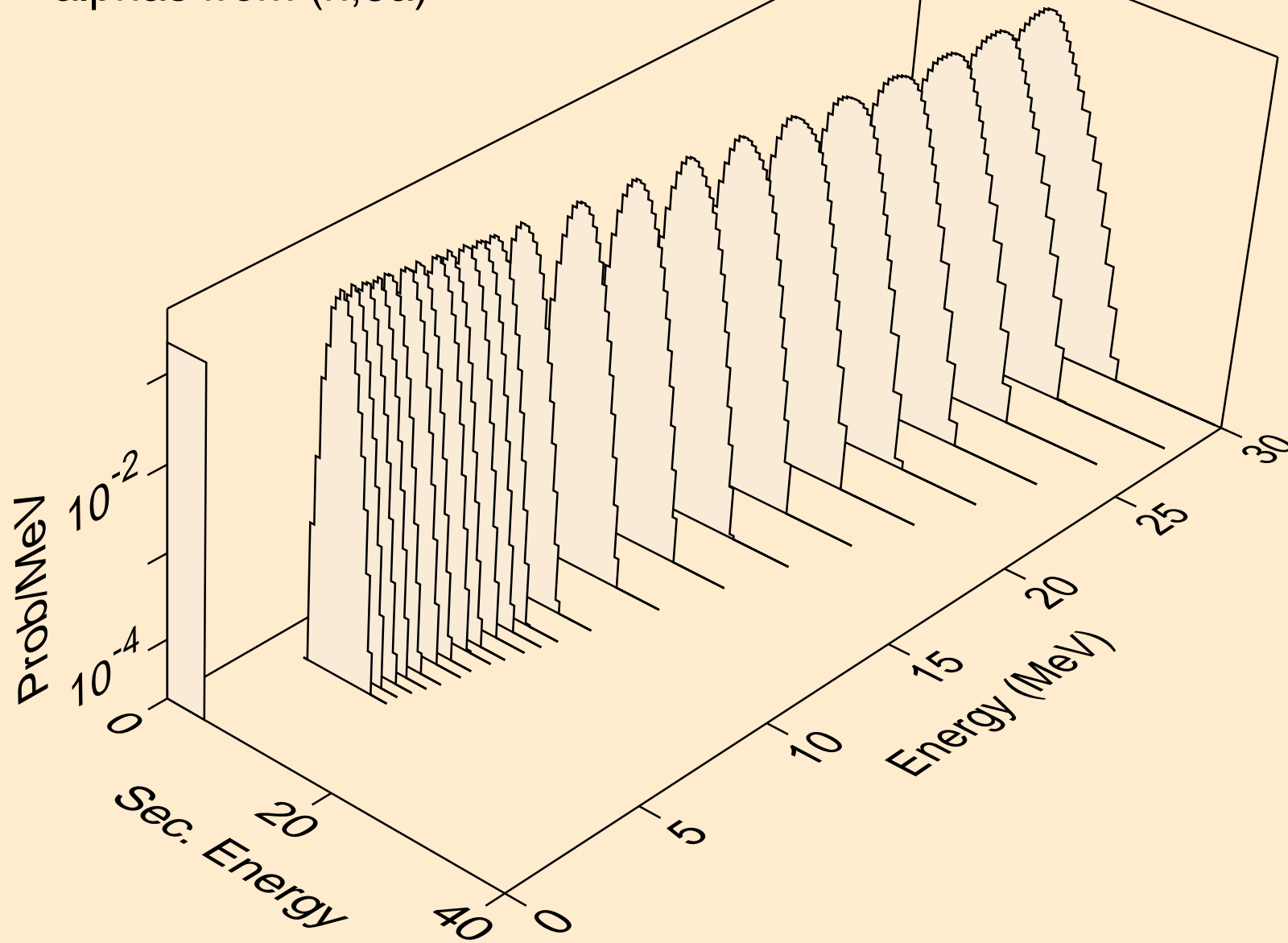
GD137 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,a)



GD137 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,2a)

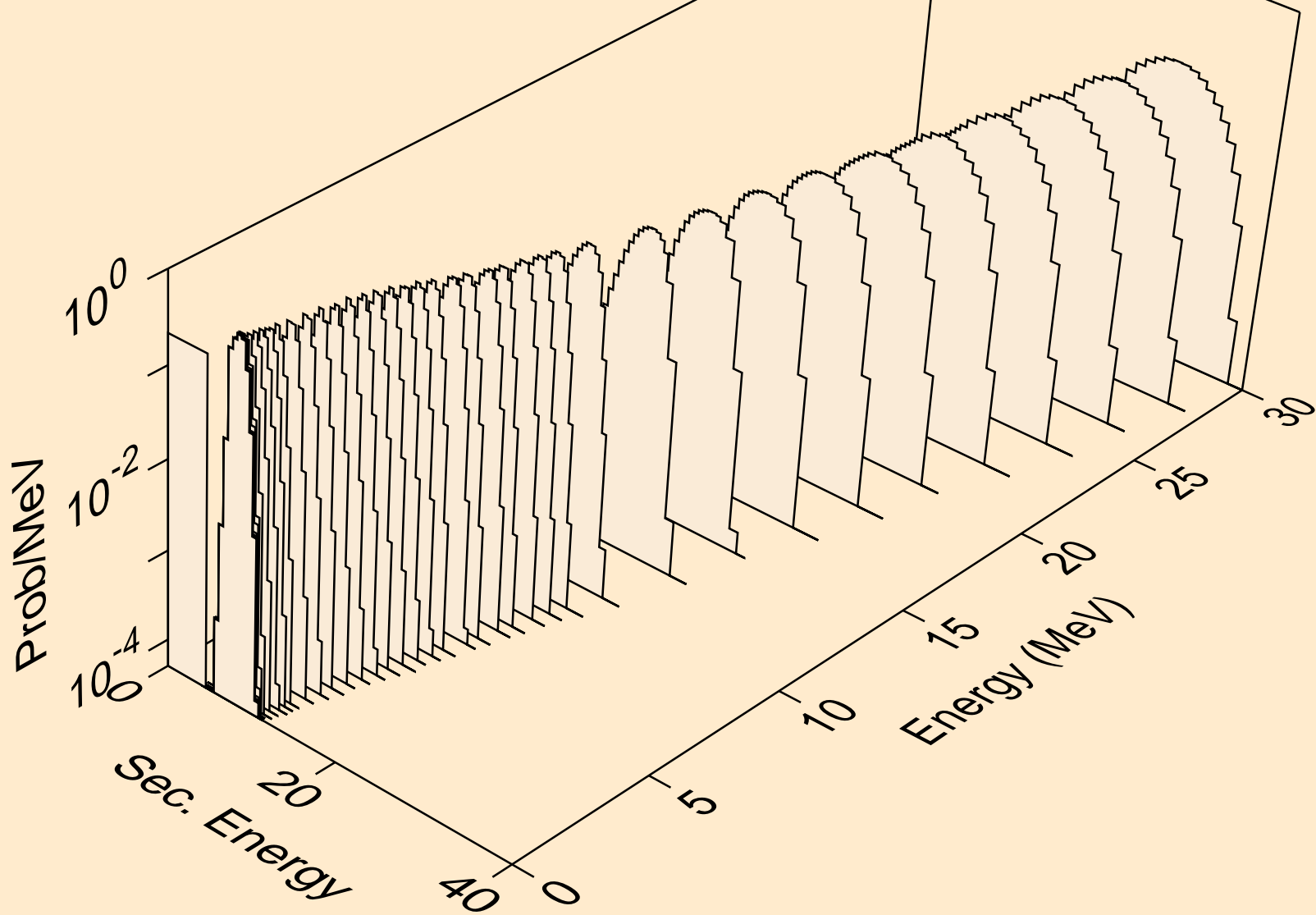


GD137 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,3a)

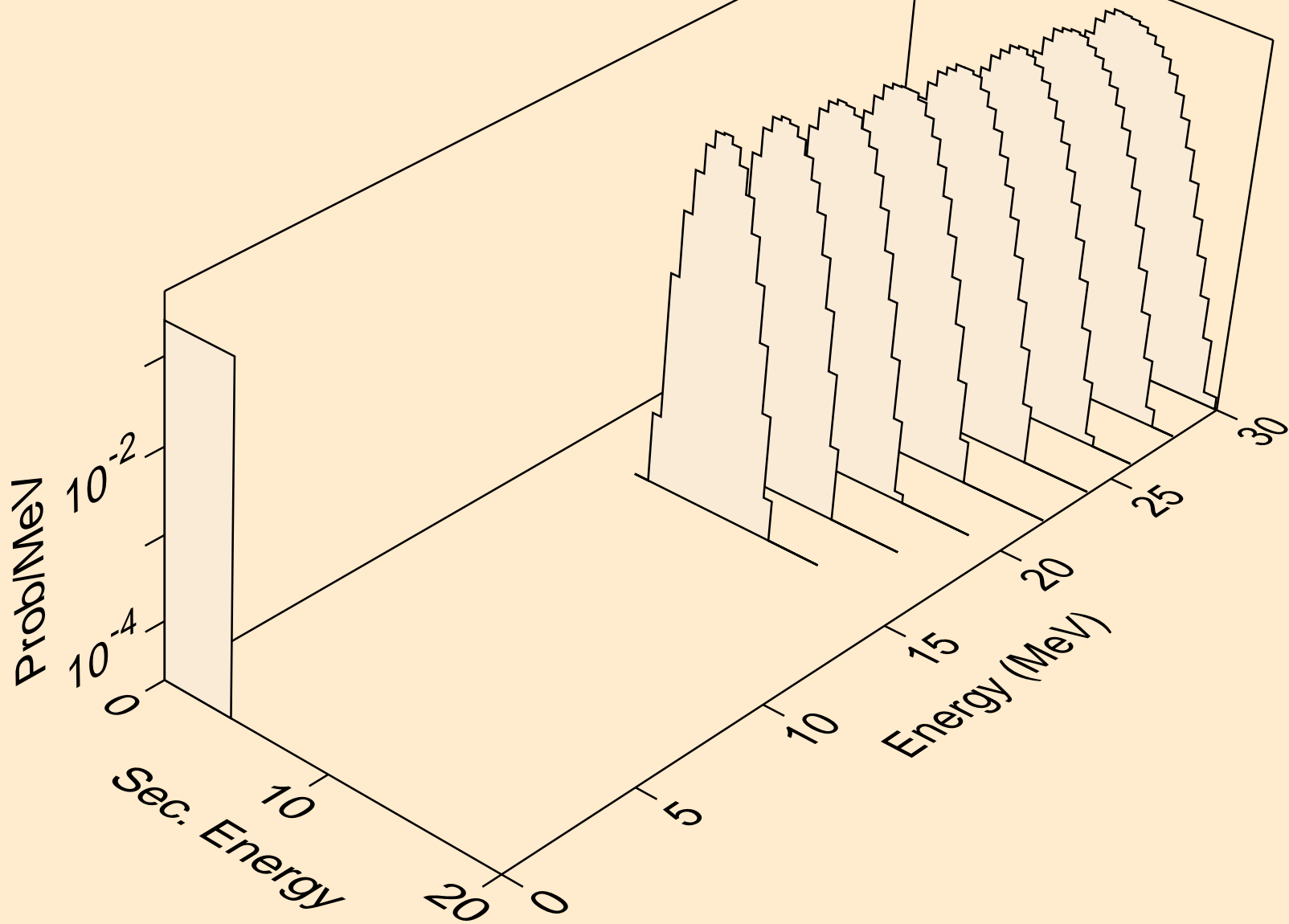




GD137 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,pa)



GD137 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,d2a)



GD137 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,da)

