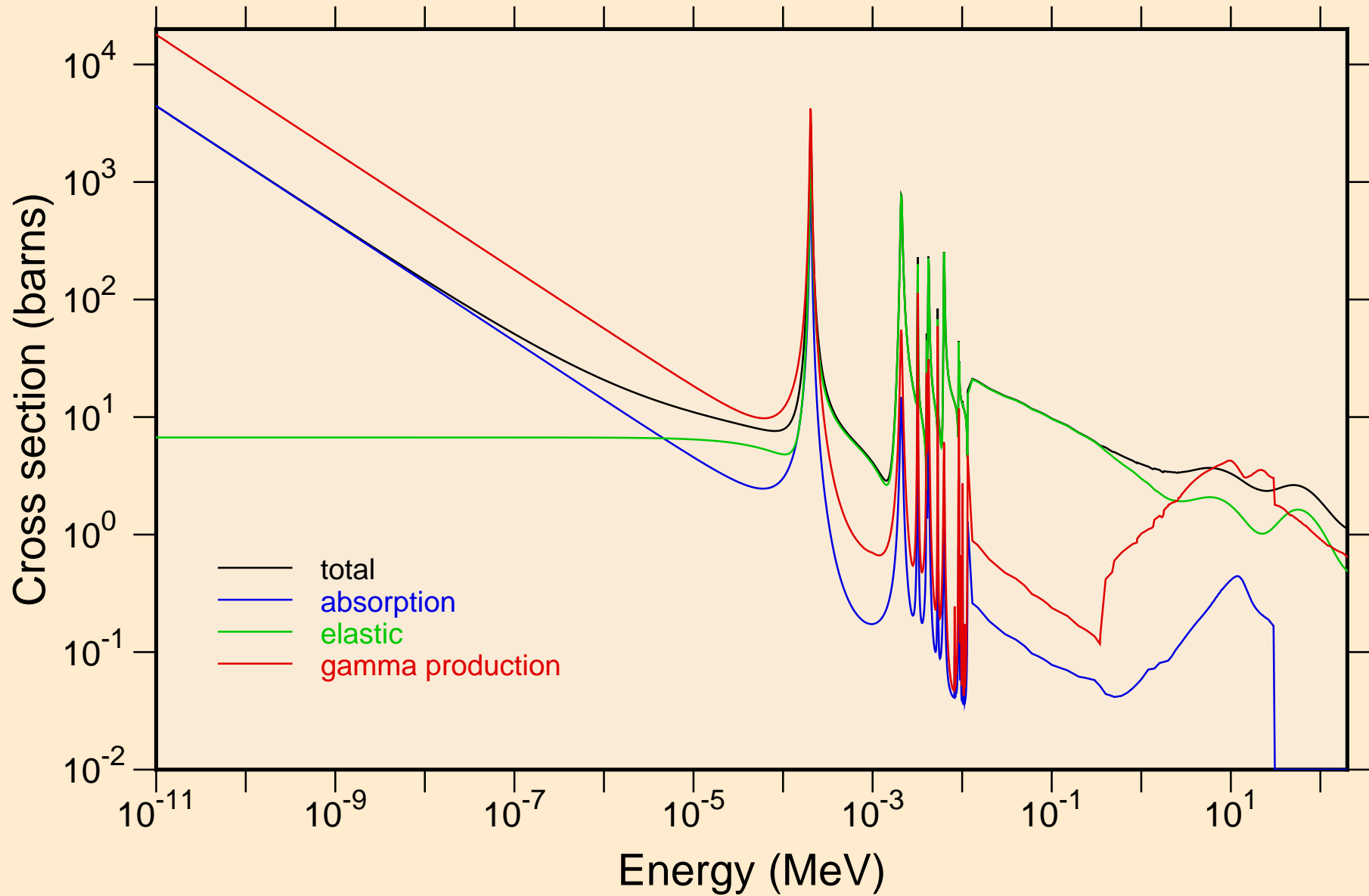
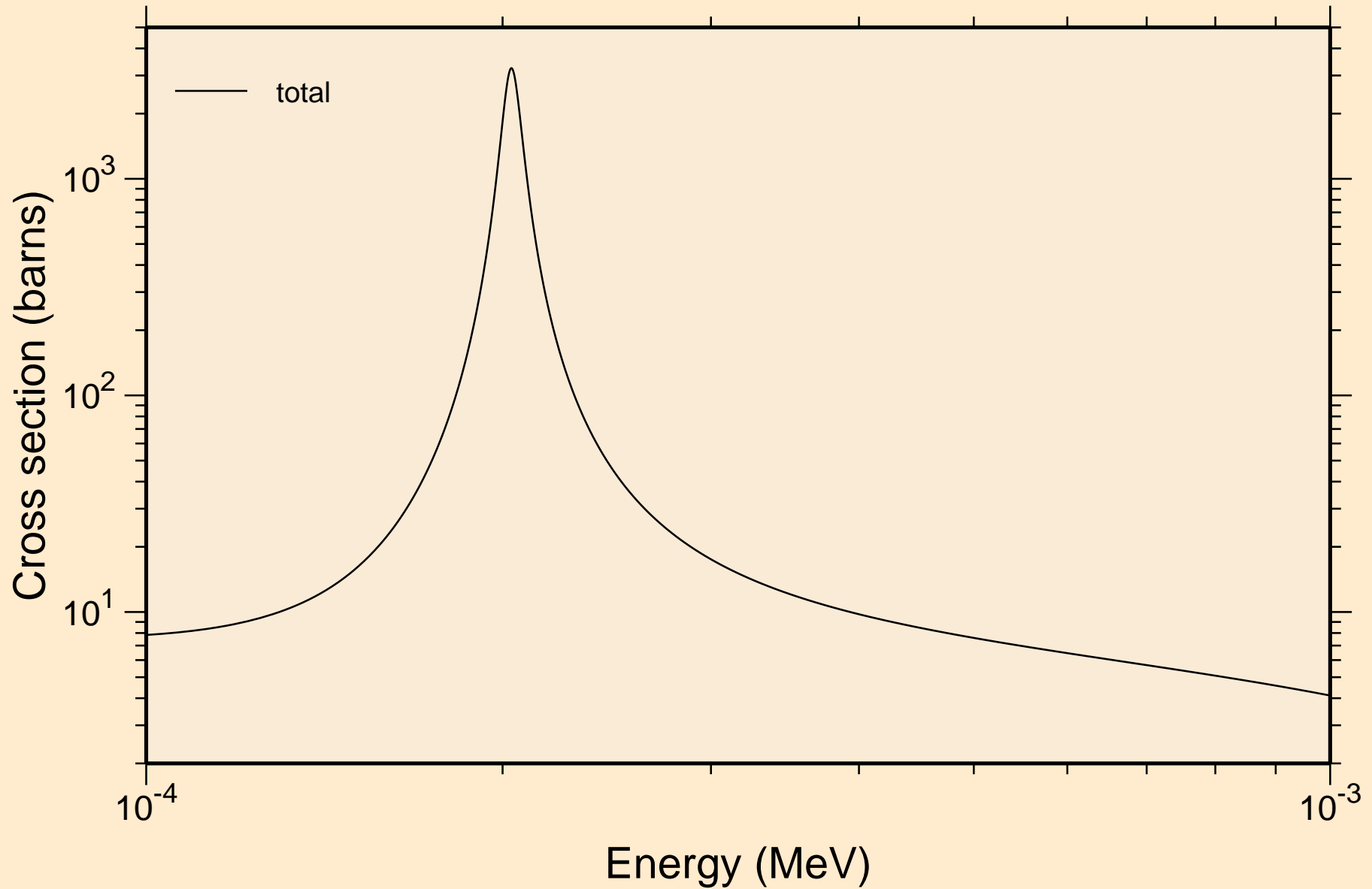


# NI059 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

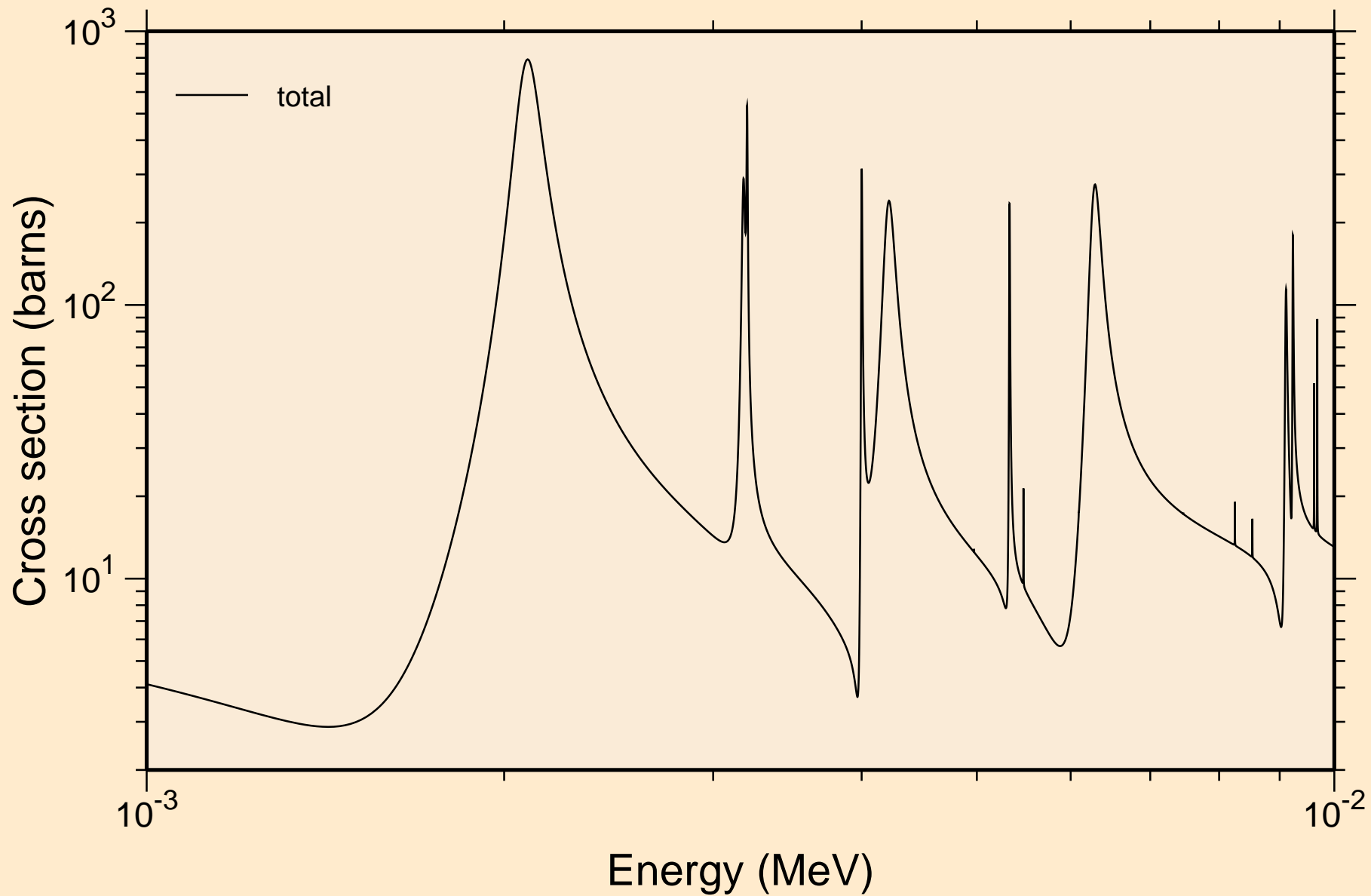
## Principal cross sections



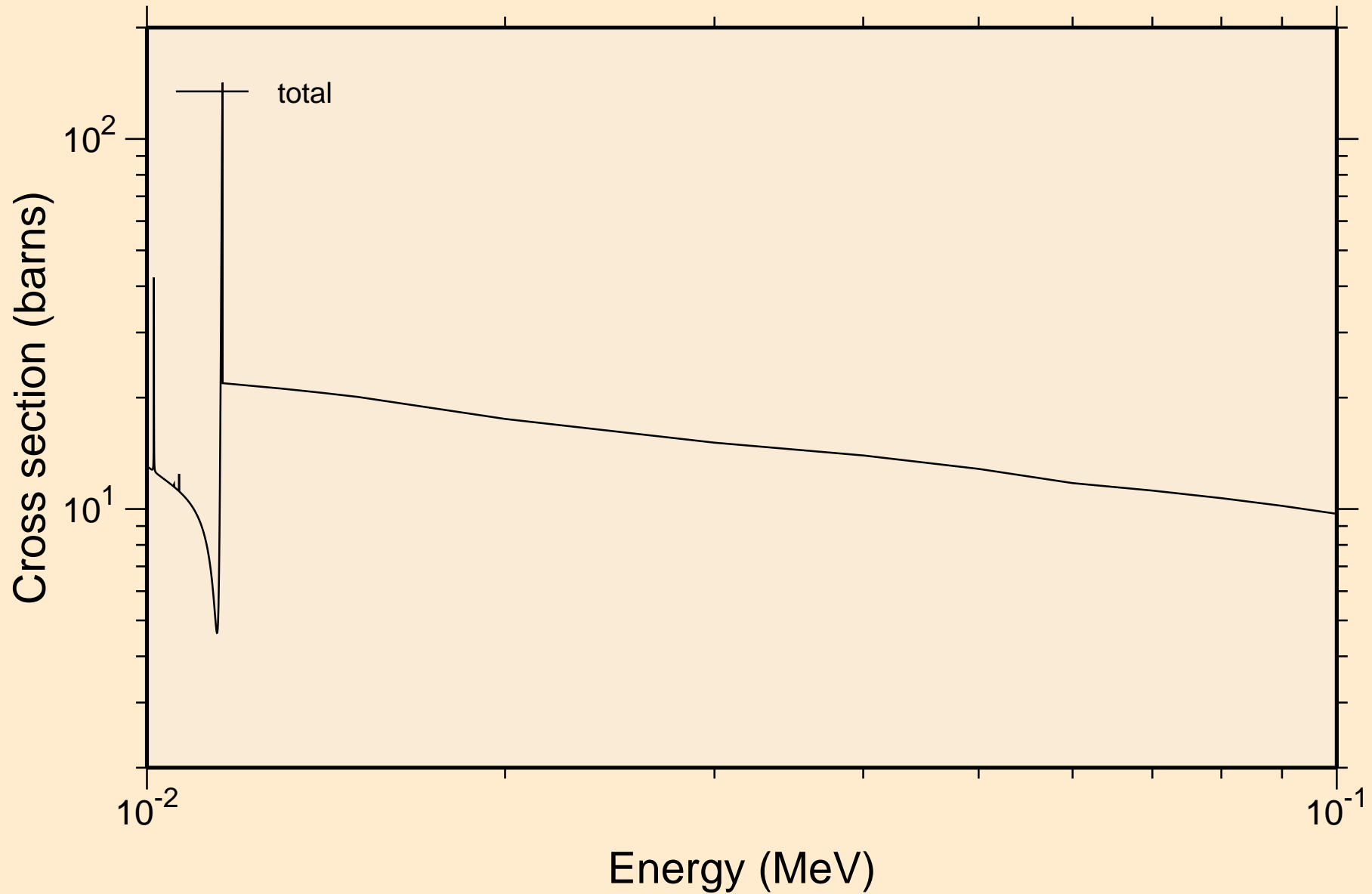
NI059 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
resonance total cross section



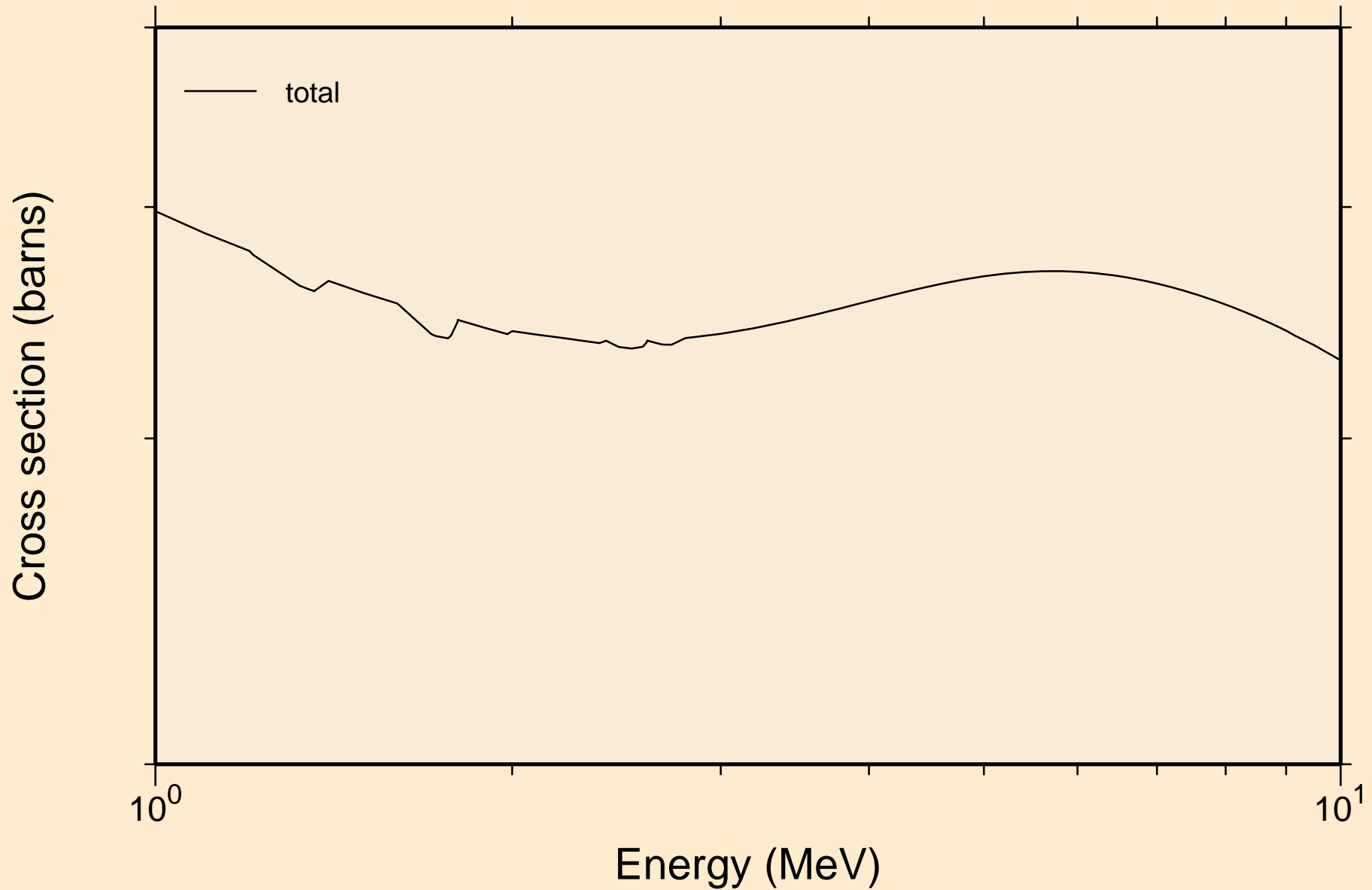
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resonance total cross section



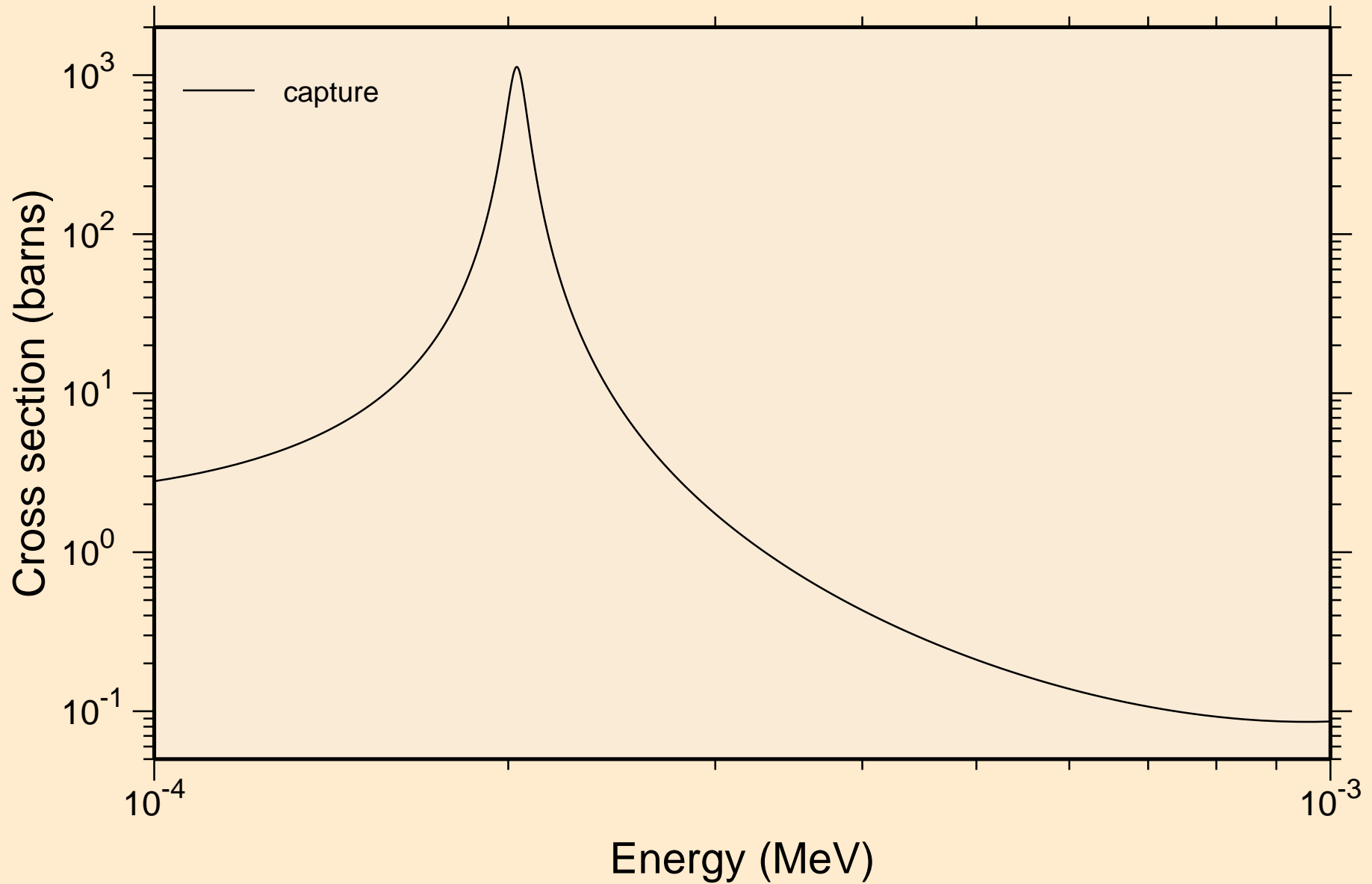
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resonance total cross section



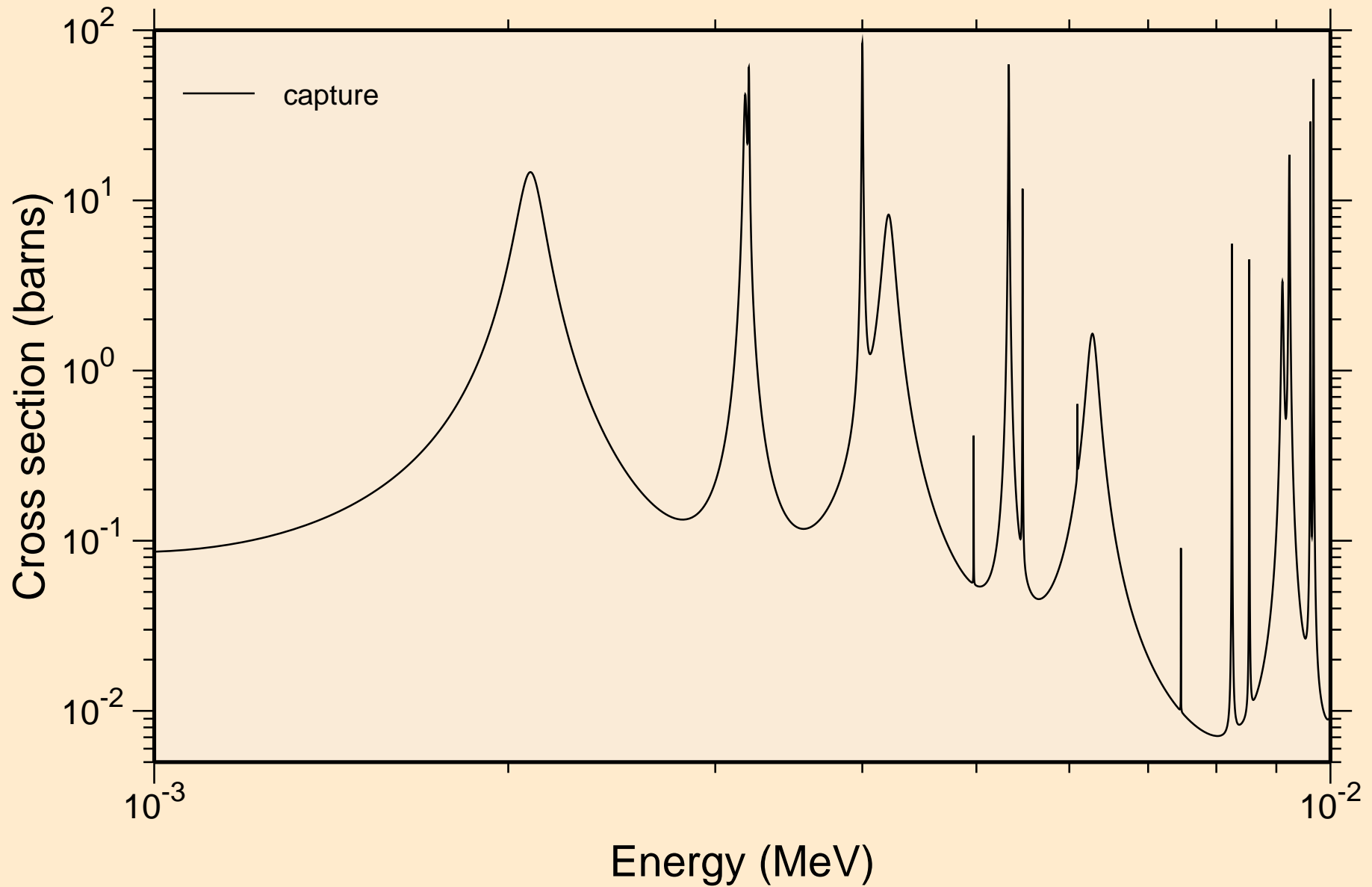
Ni059 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
resonance total cross section



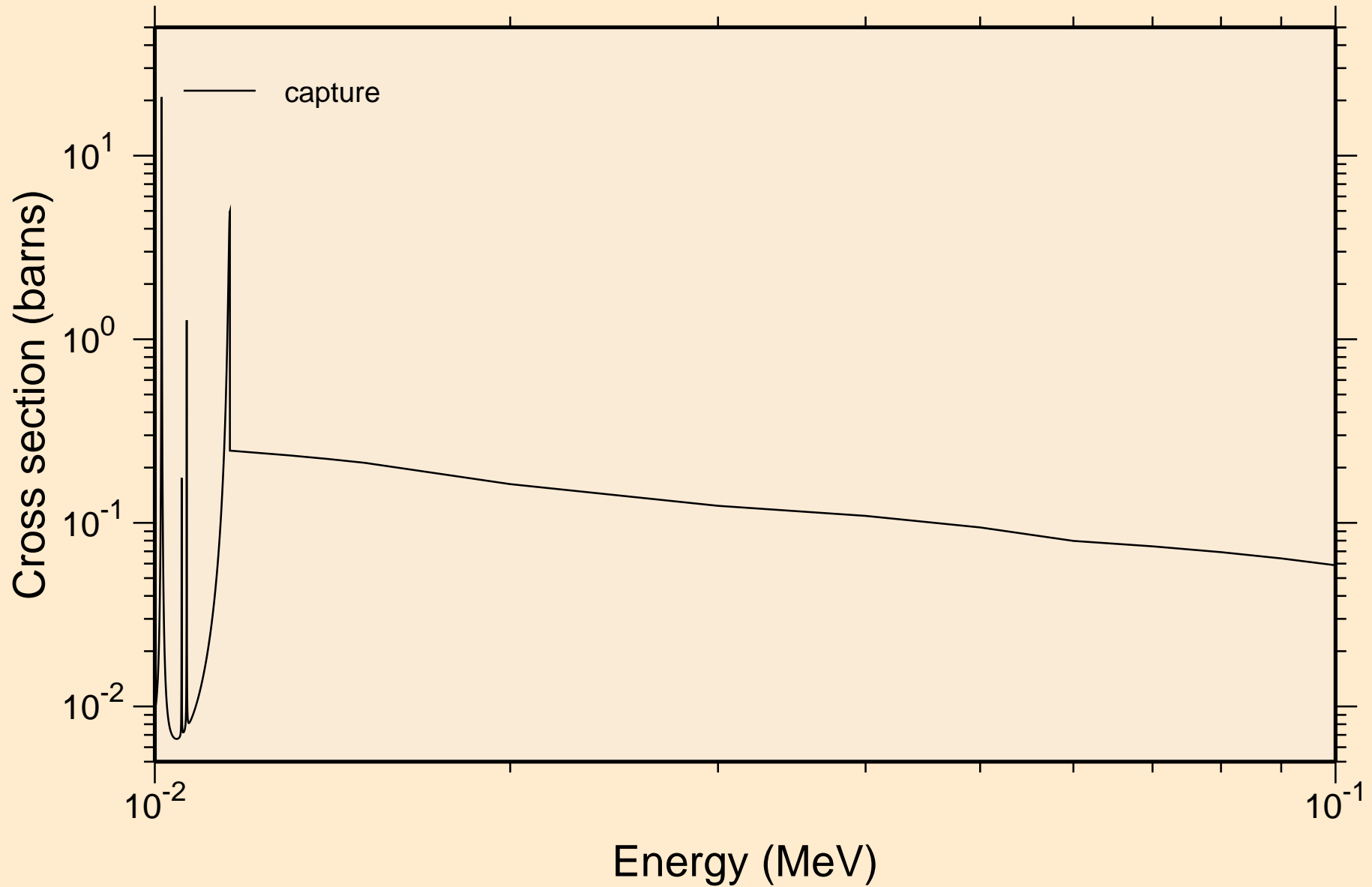
NI059 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
resonance absorption cross sections



NI059 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
resonance absorption cross sections

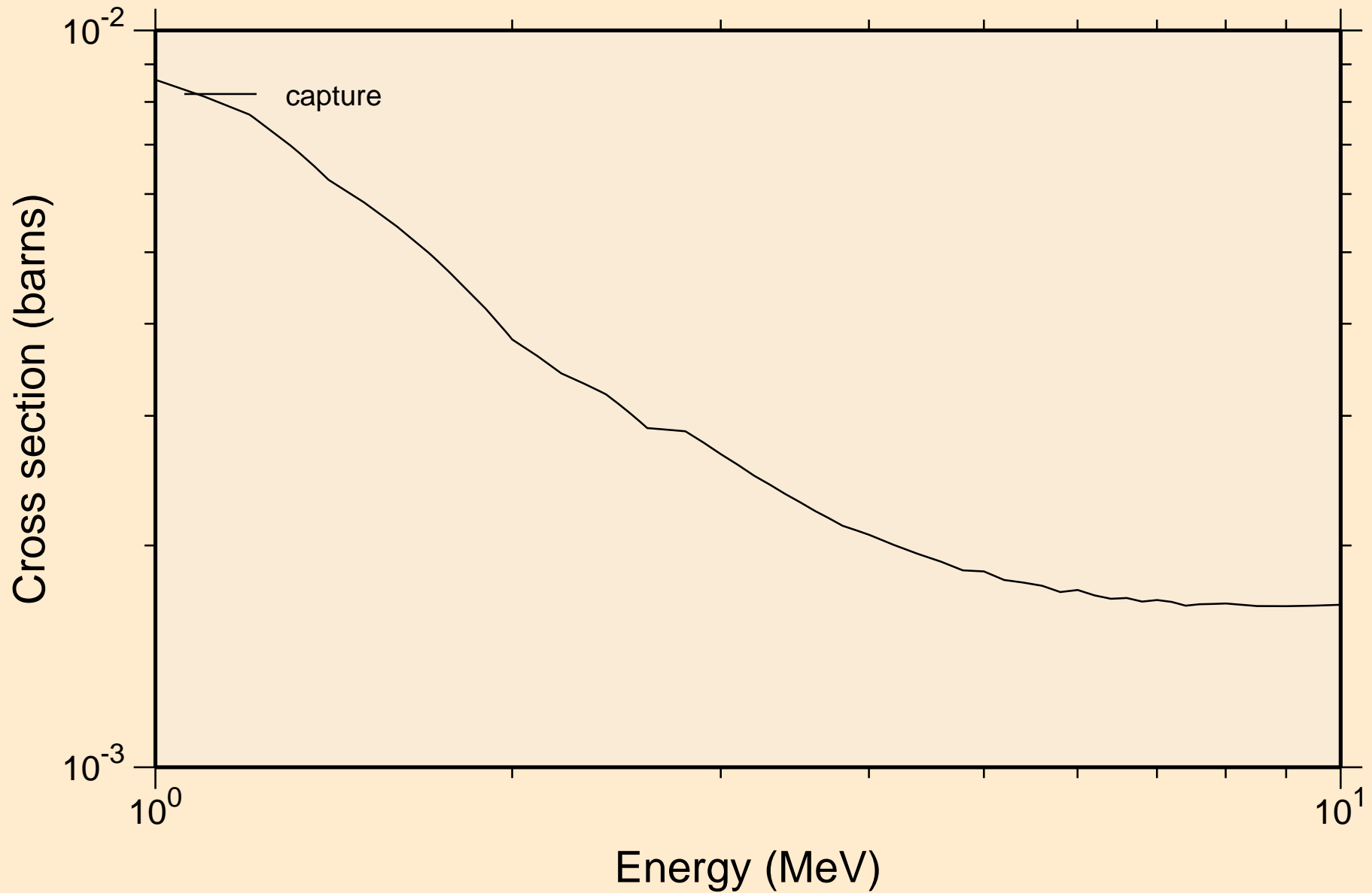


NI059 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
resonance absorption cross sections



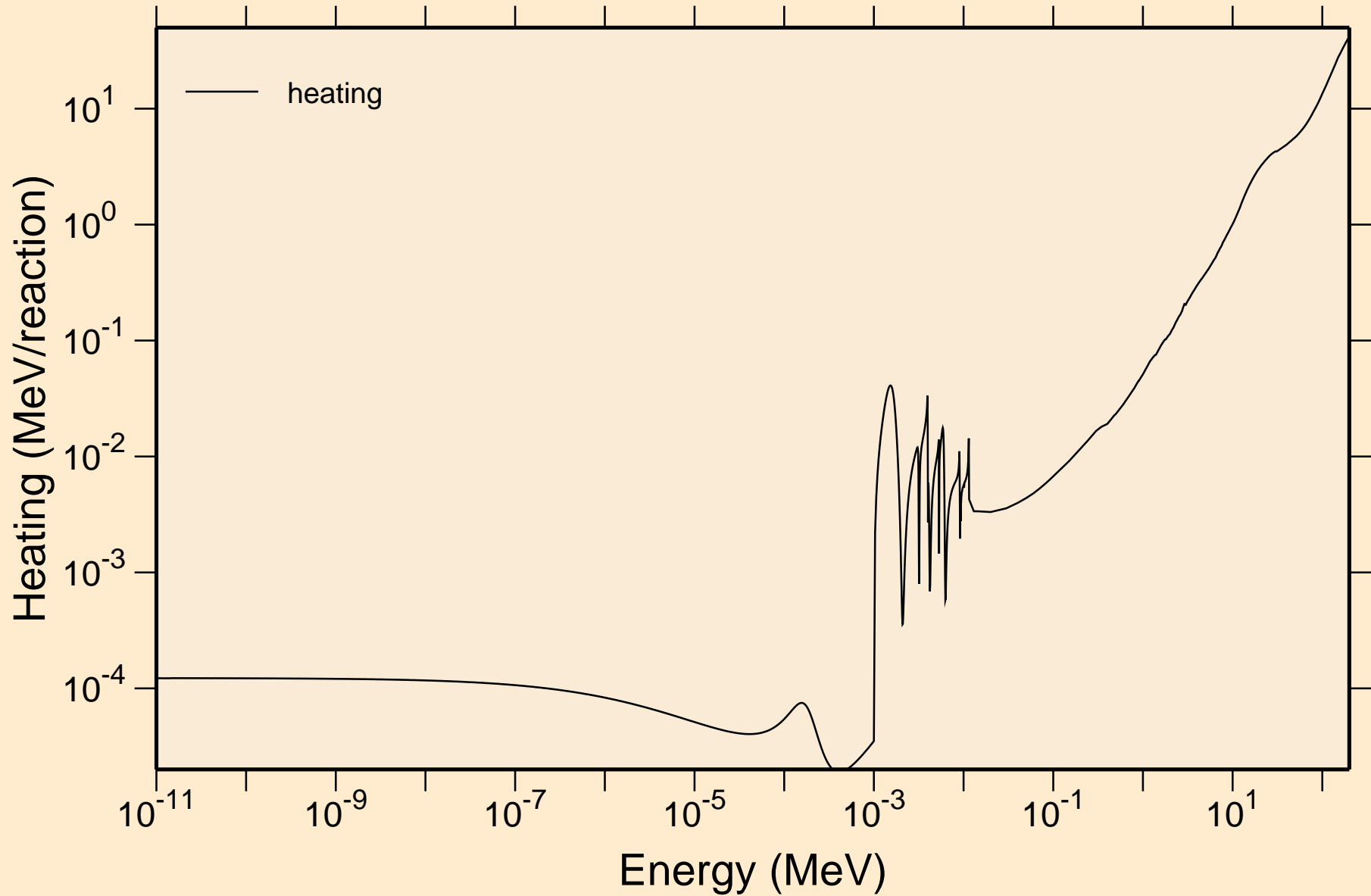


NI059 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
resonance absorption cross sections

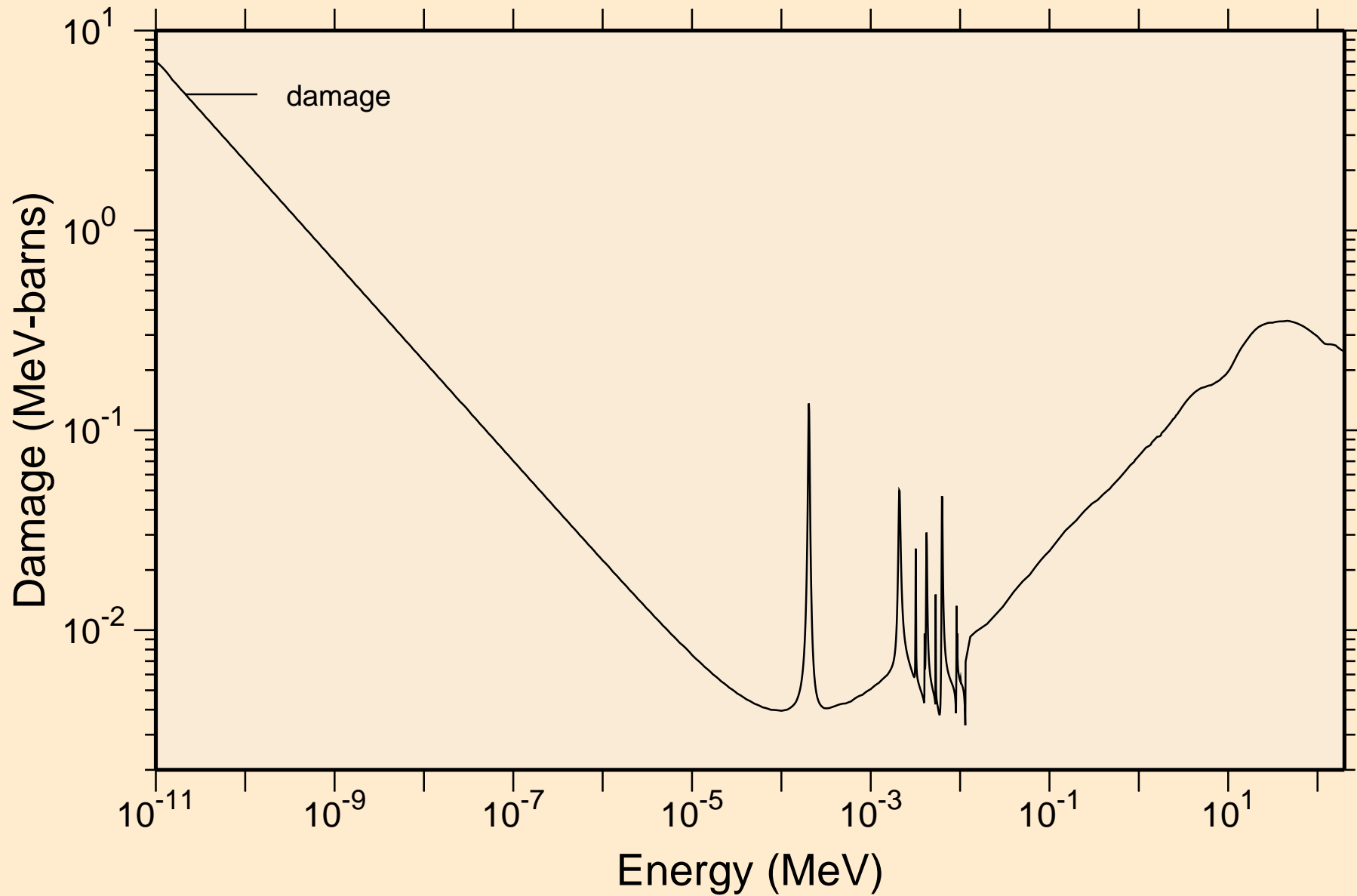


# NI059 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

## Heating

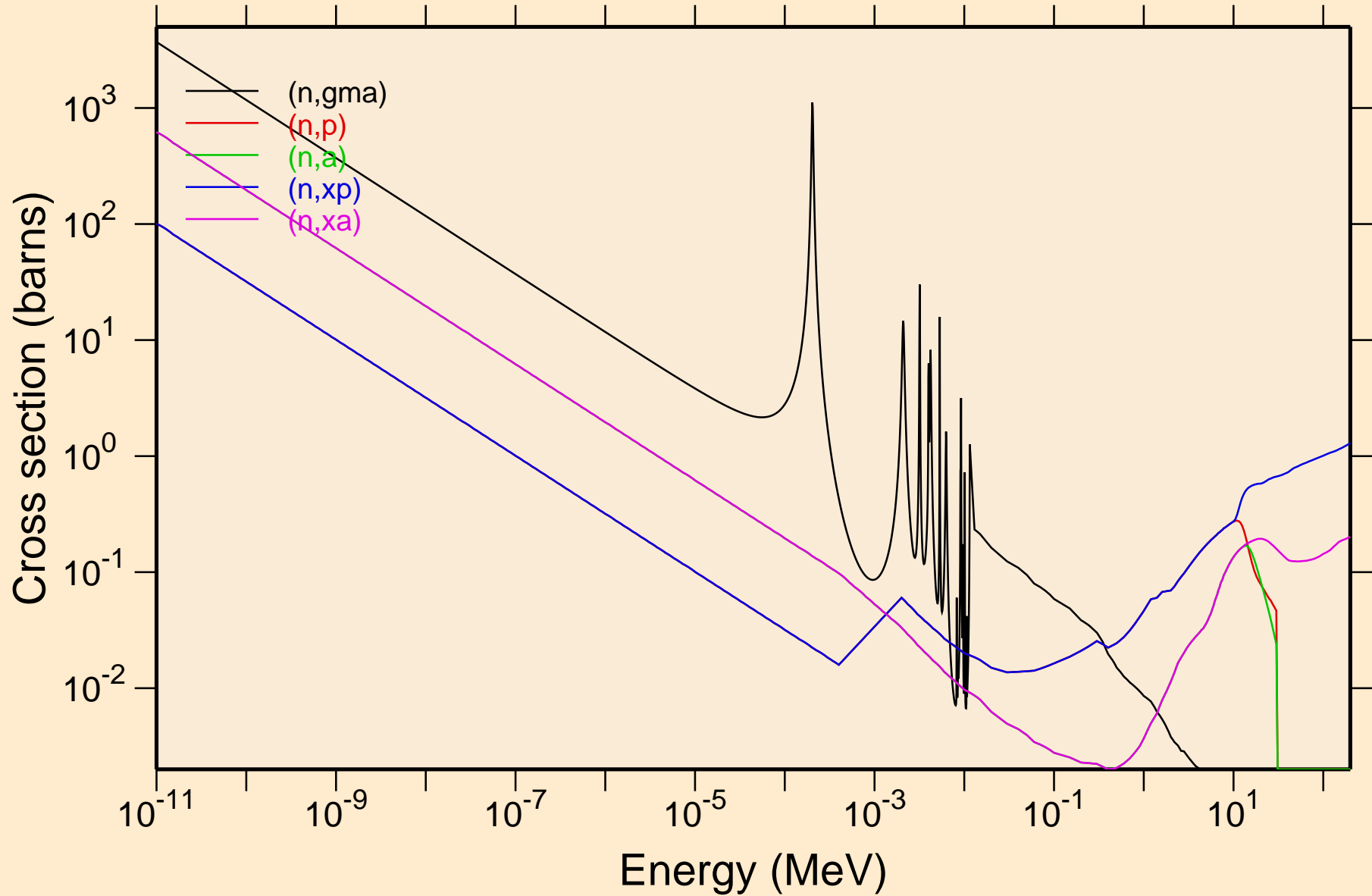


NI059 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Damage



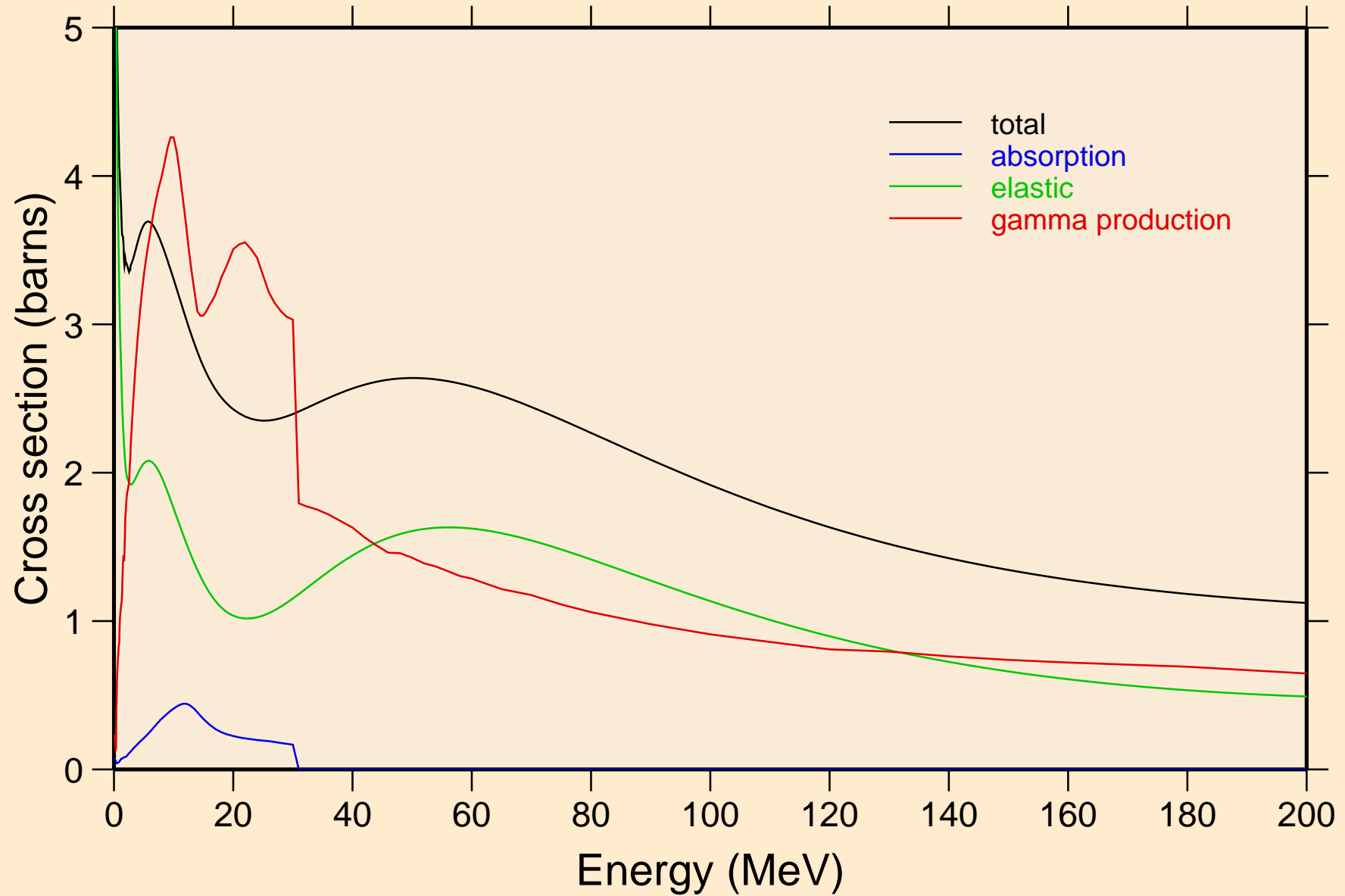
# NI059 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

## Non-threshold reactions



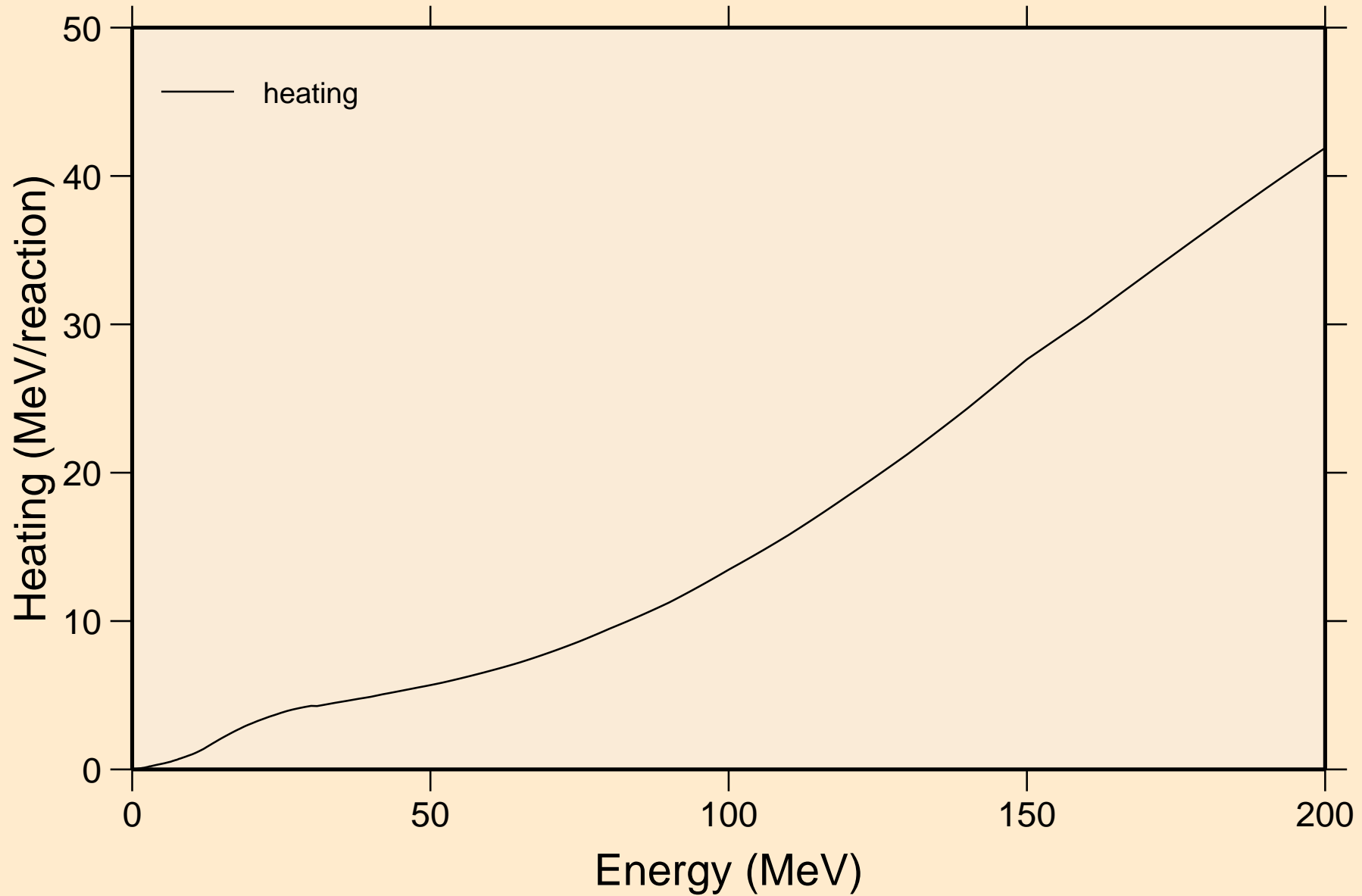
# NI059 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

## Principal cross sections



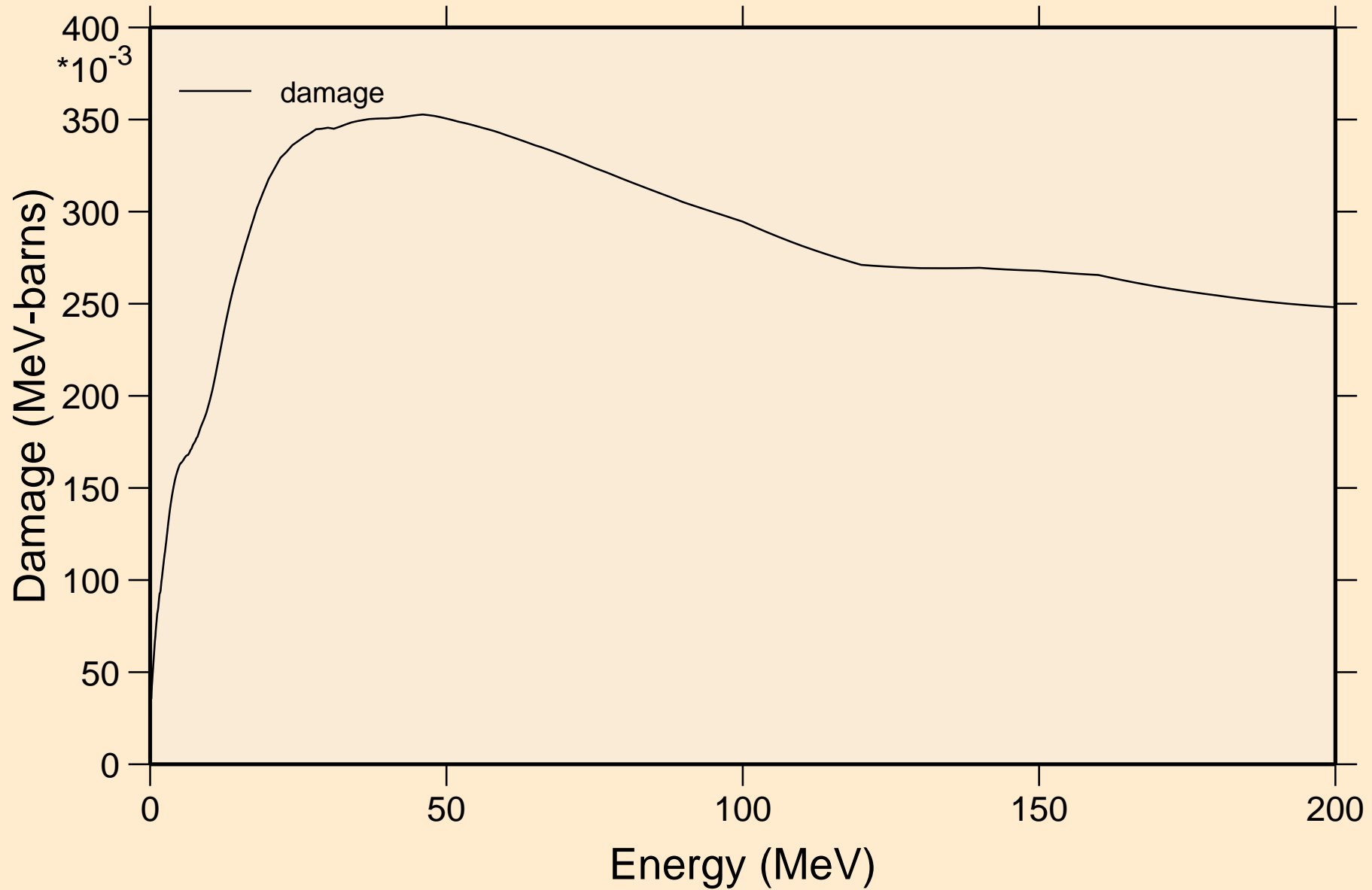
# NI059 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

## Heating



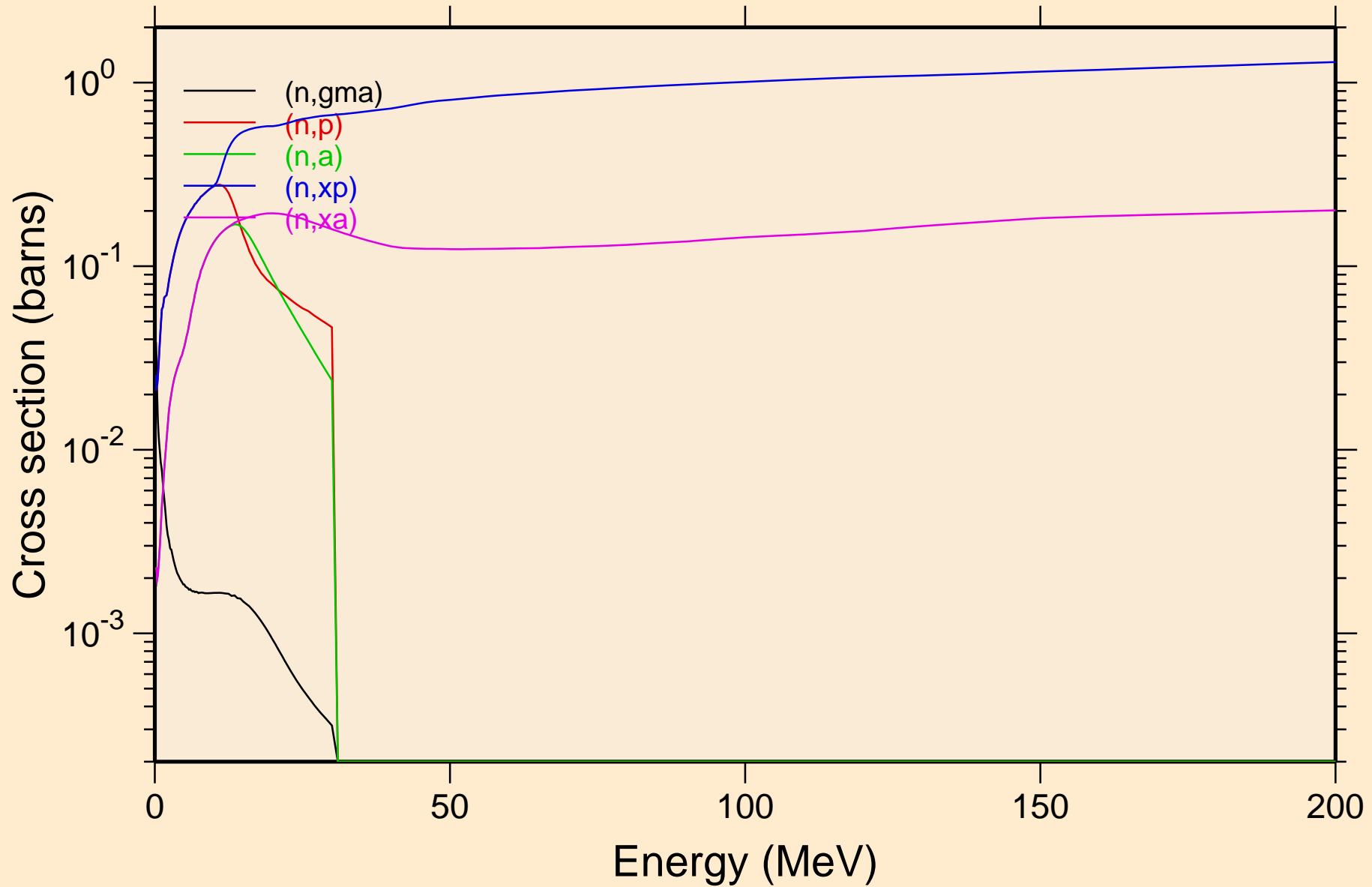
# NI059 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

## Damage



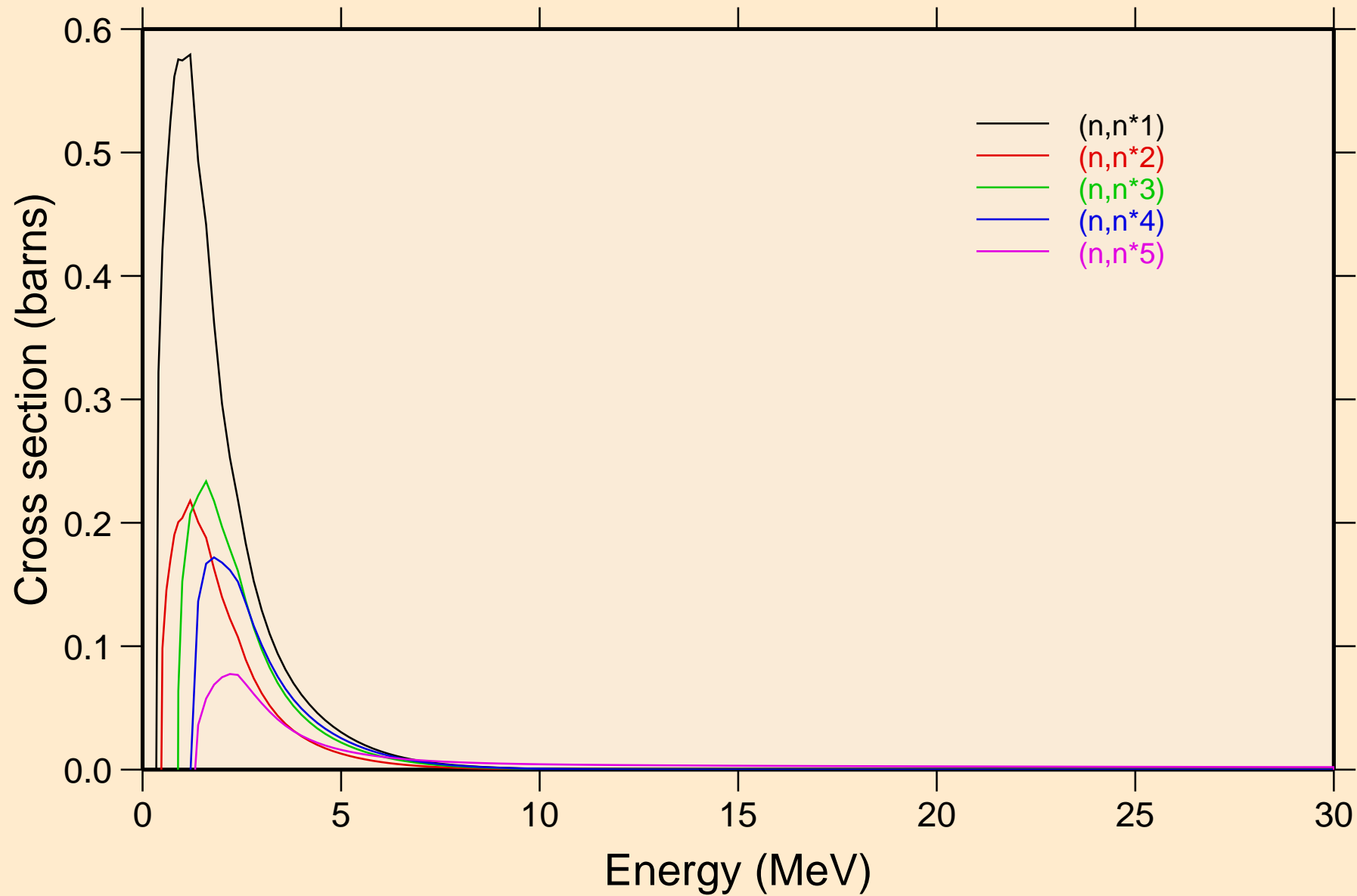
# NI059 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

## Non-threshold reactions

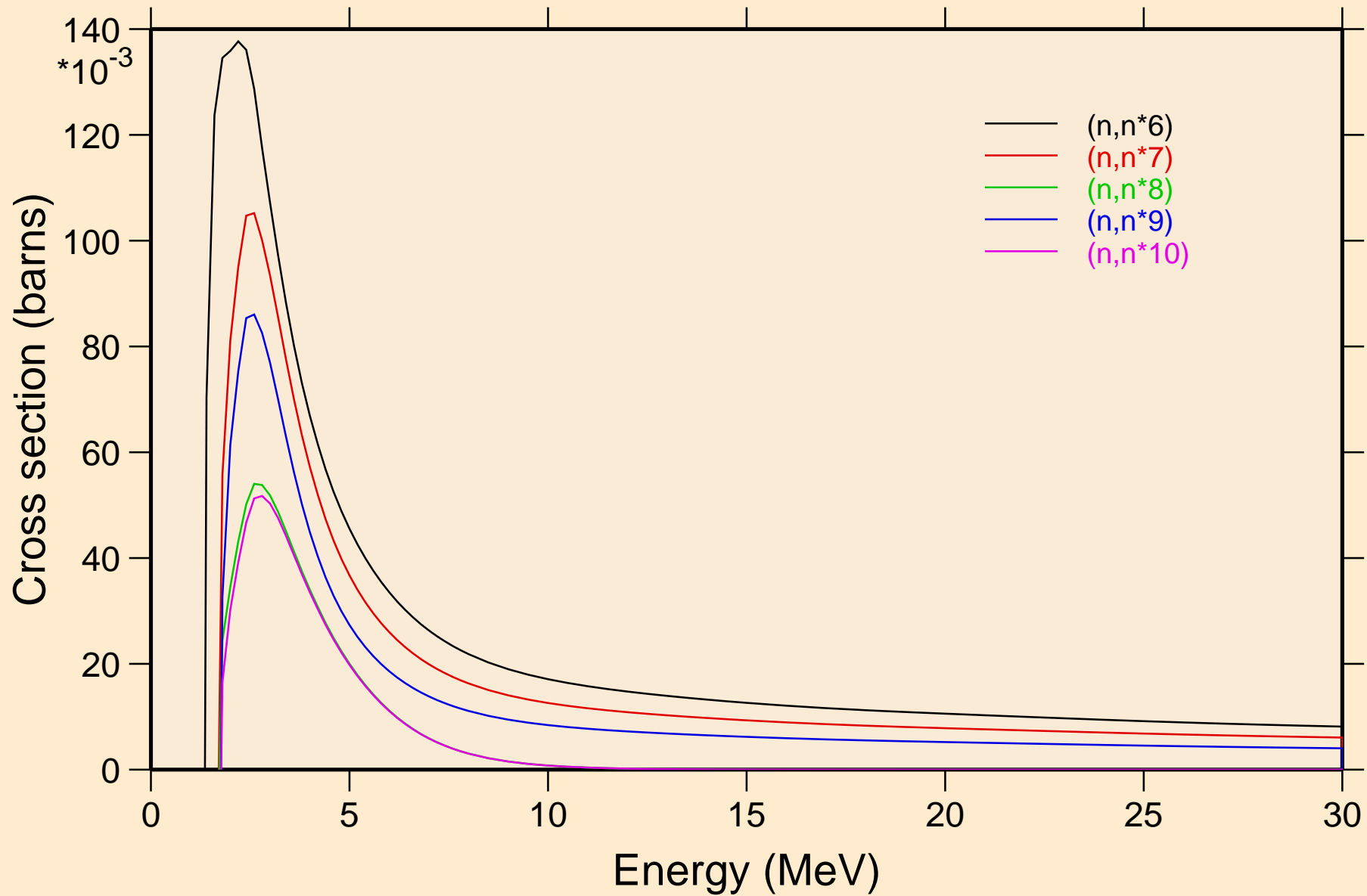




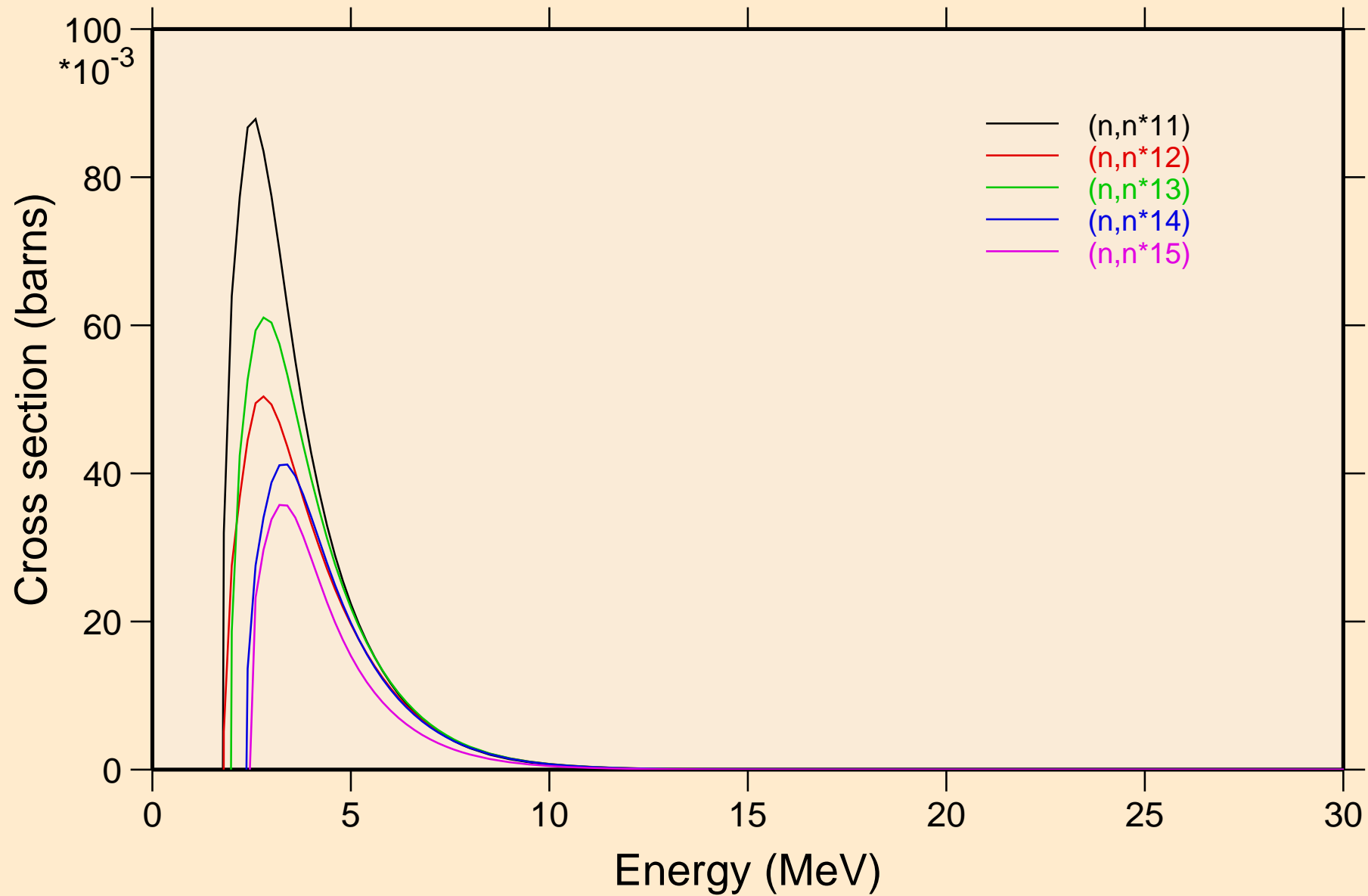
NI059 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Inelastic levels



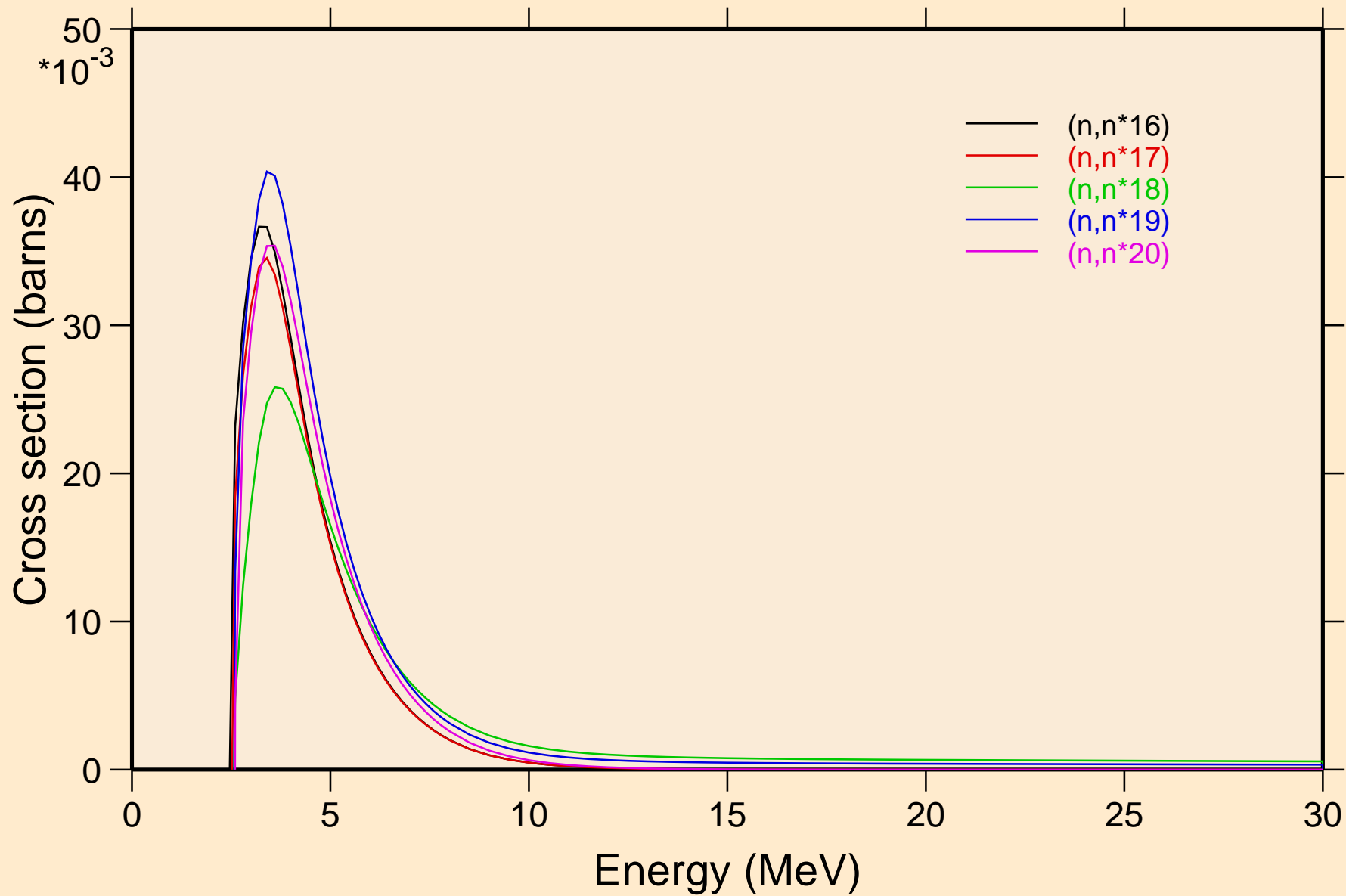
NI059 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Inelastic levels



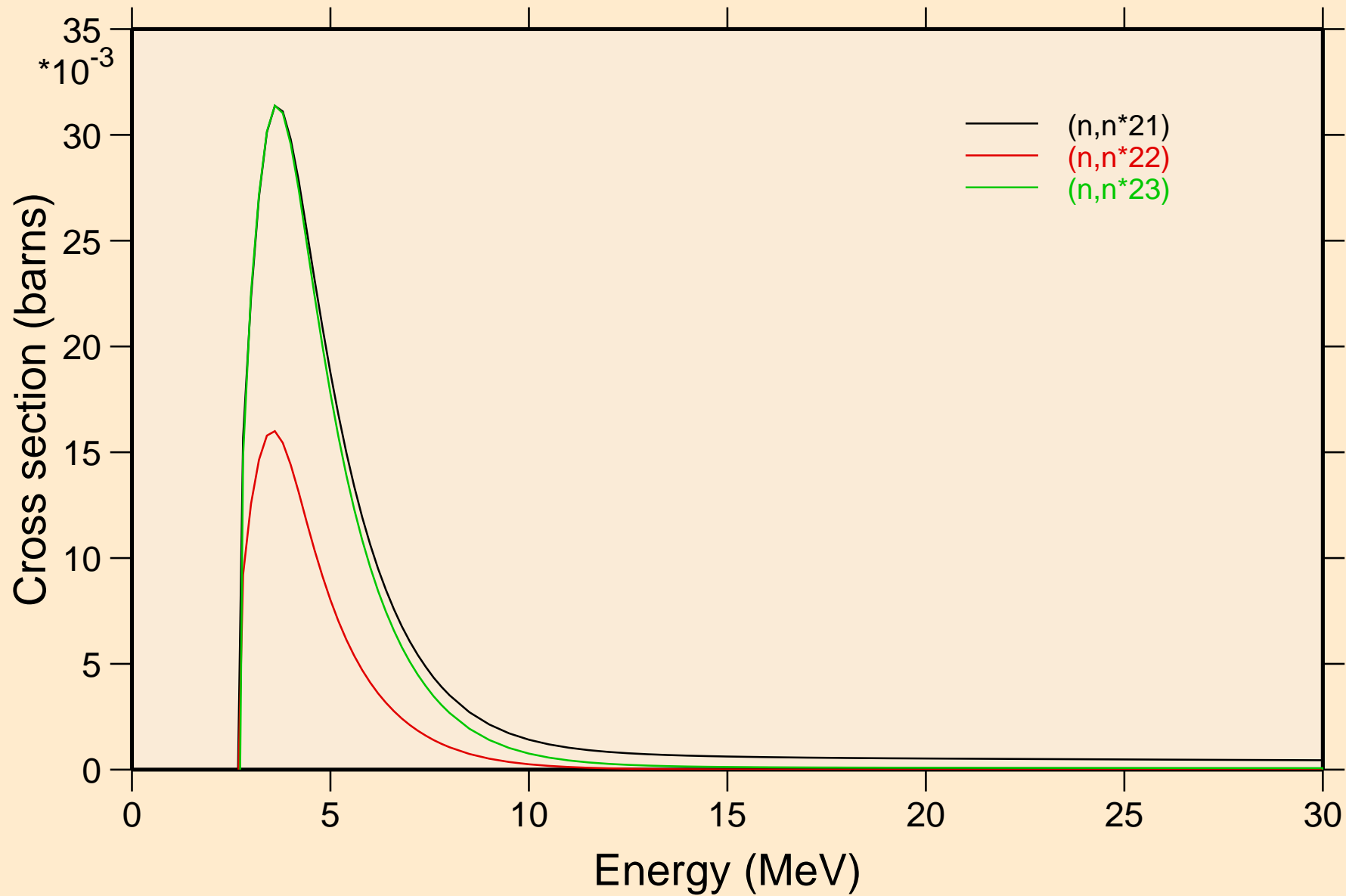
NI059 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Inelastic levels



NI059 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Inelastic levels

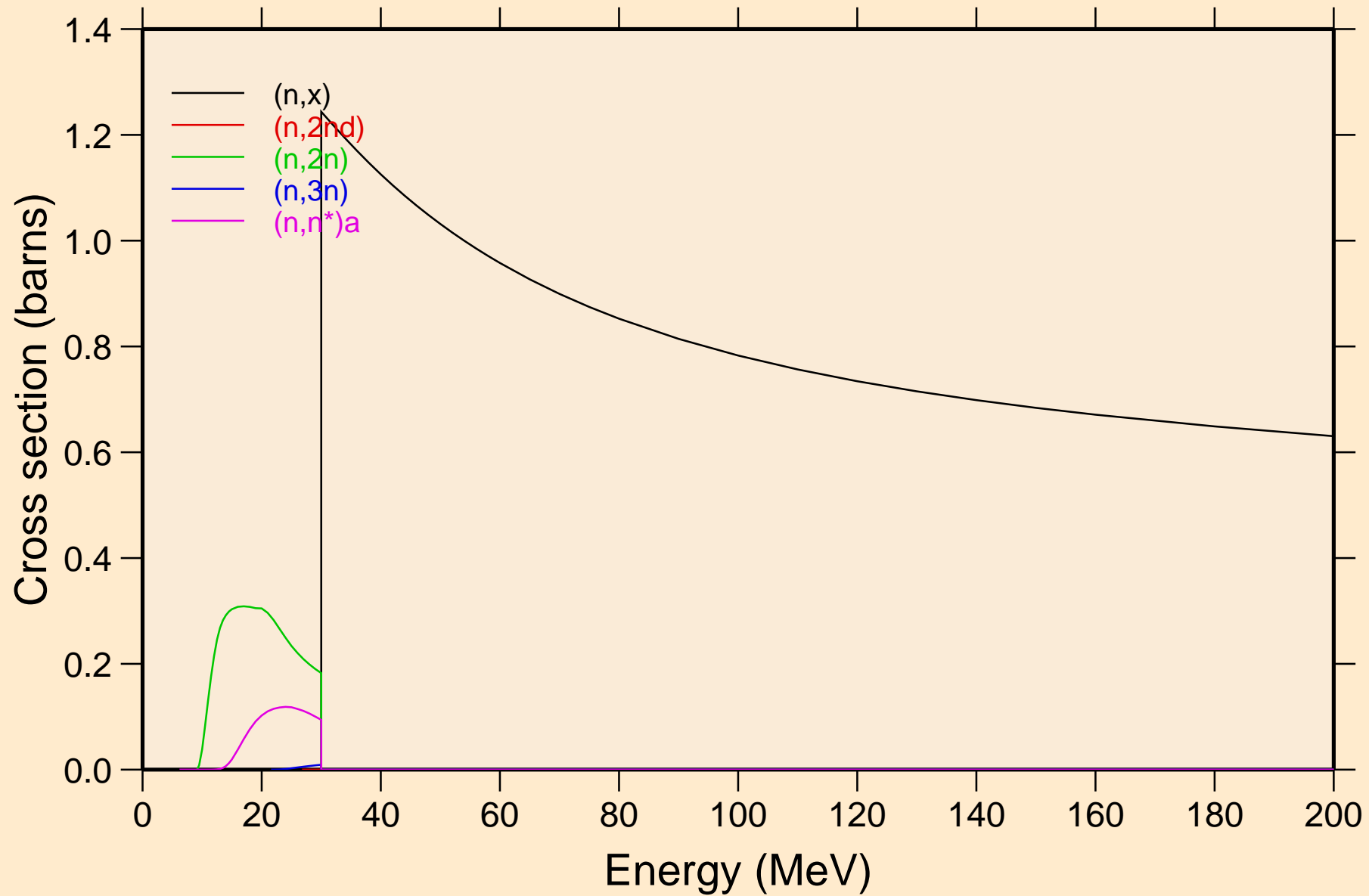


NI059 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Inelastic levels



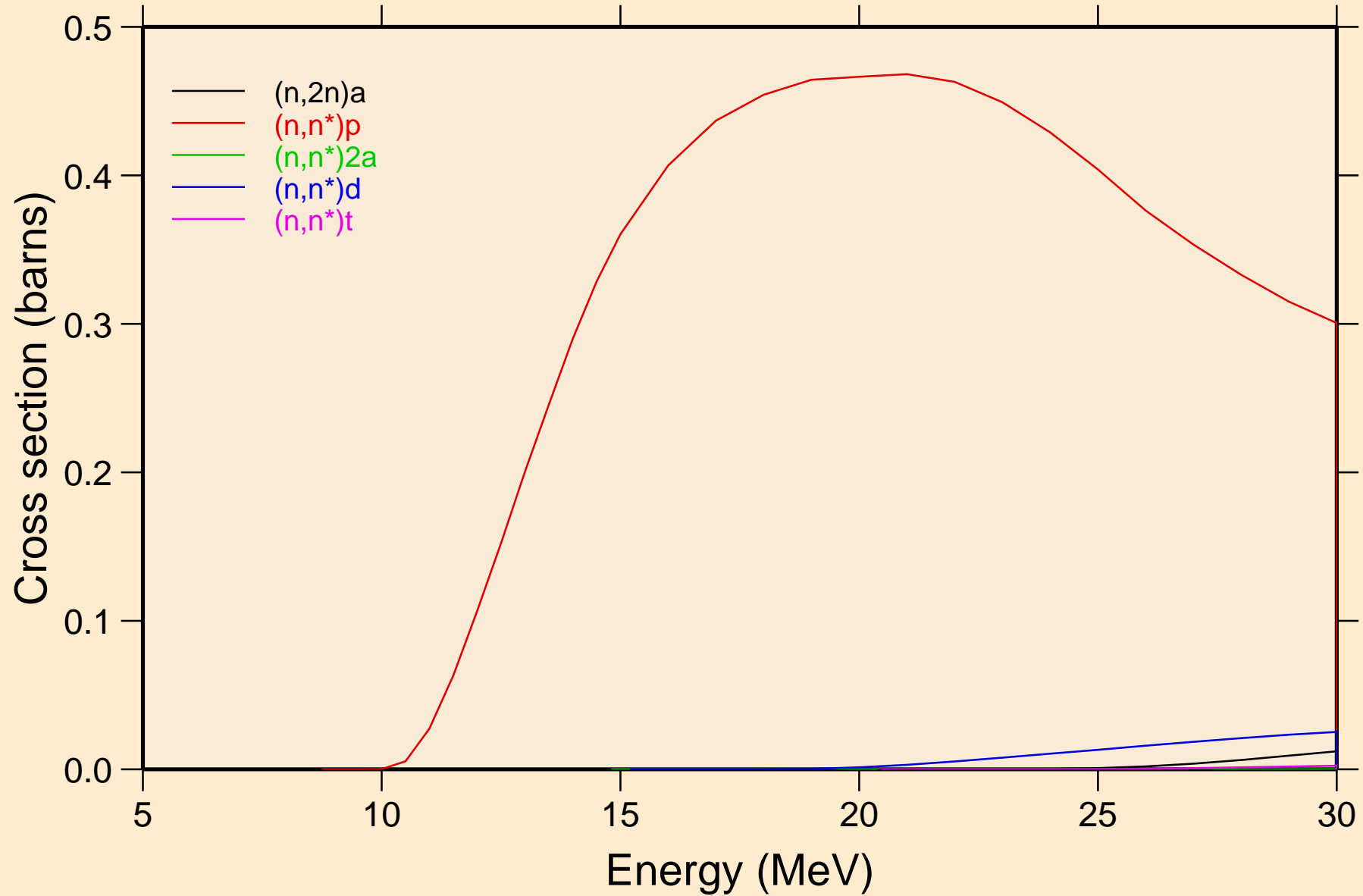
# NI059 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

## Threshold reactions

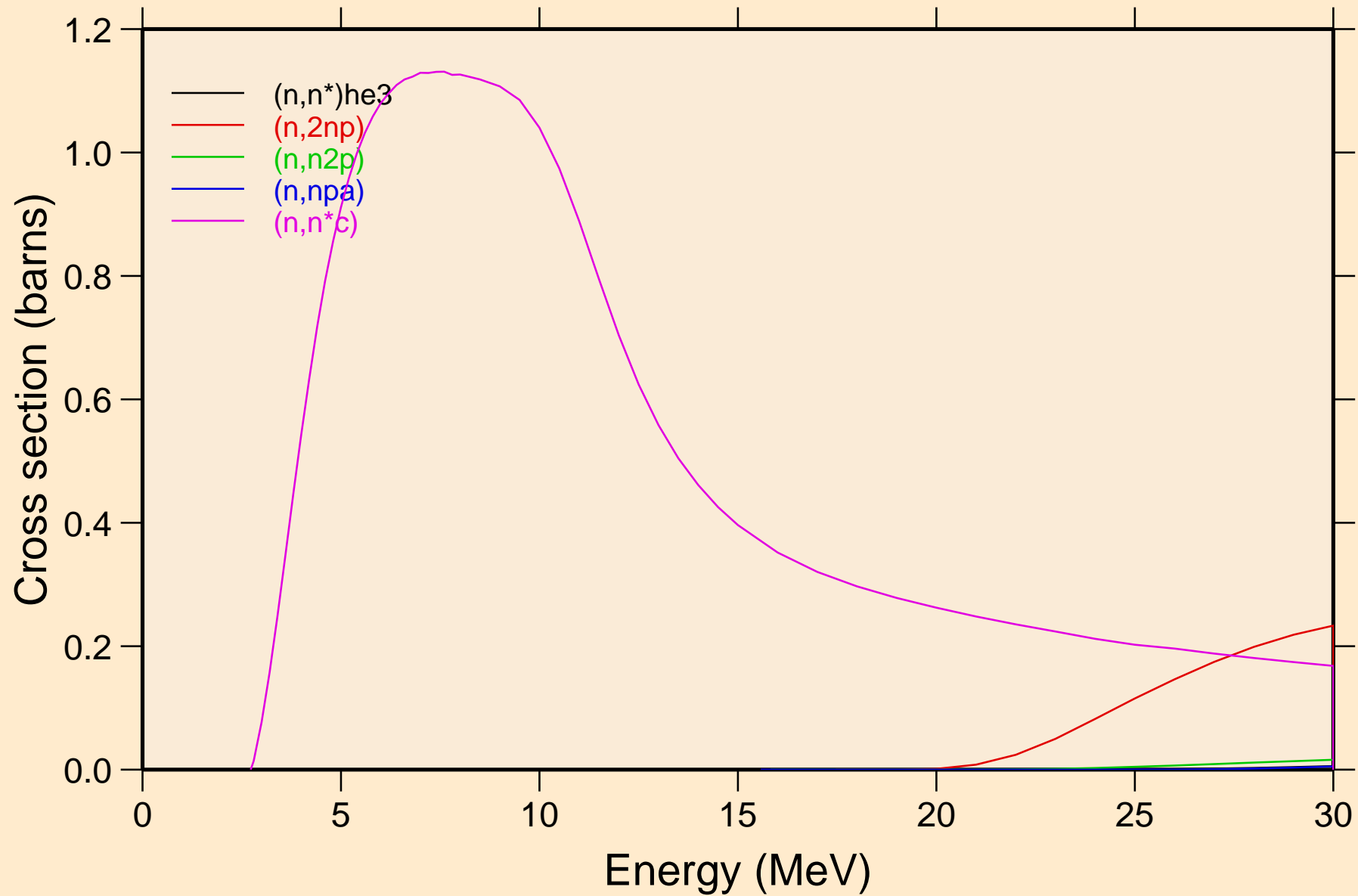


# NI059 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

## Threshold reactions

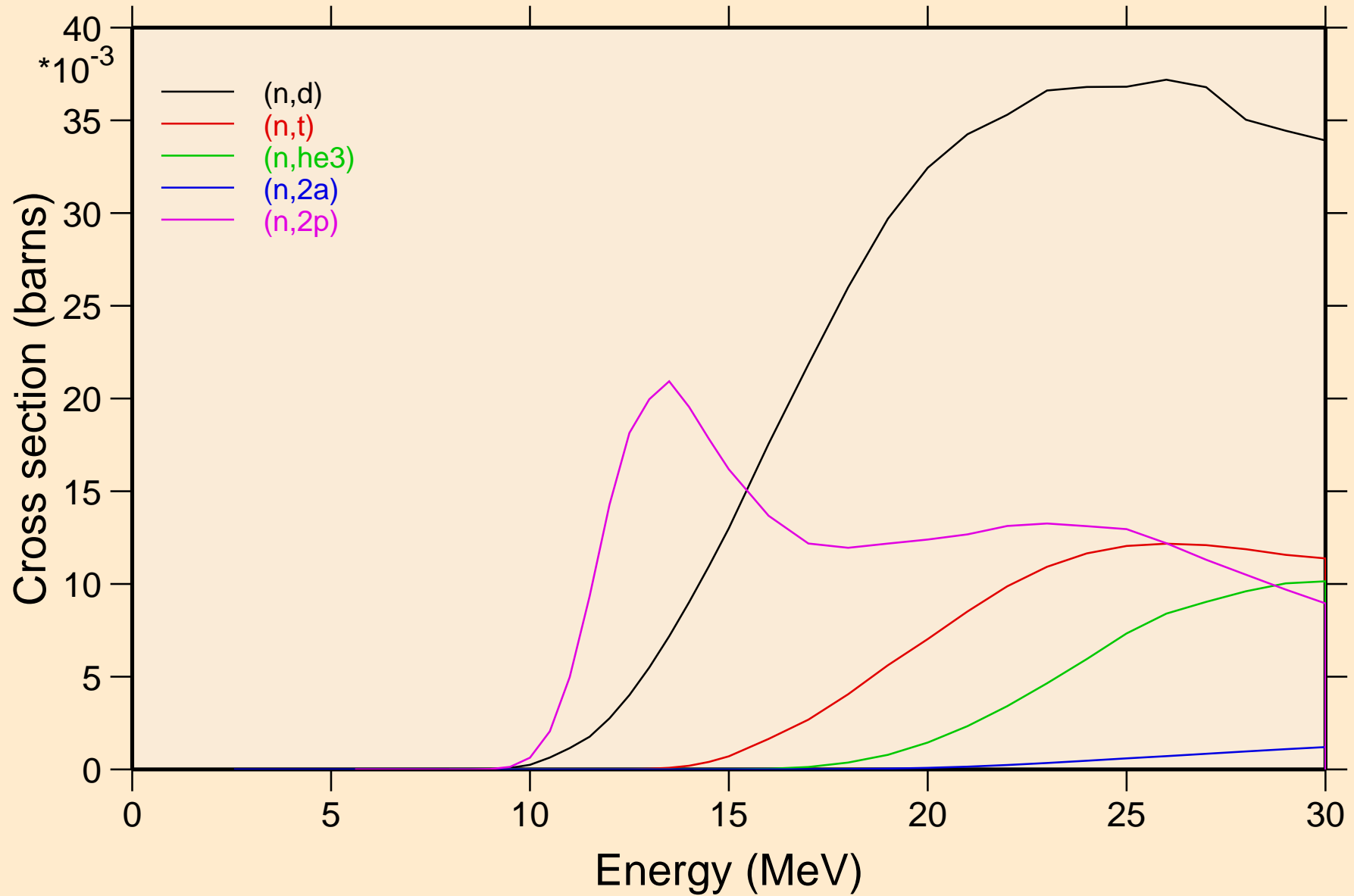


NI059 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Threshold reactions

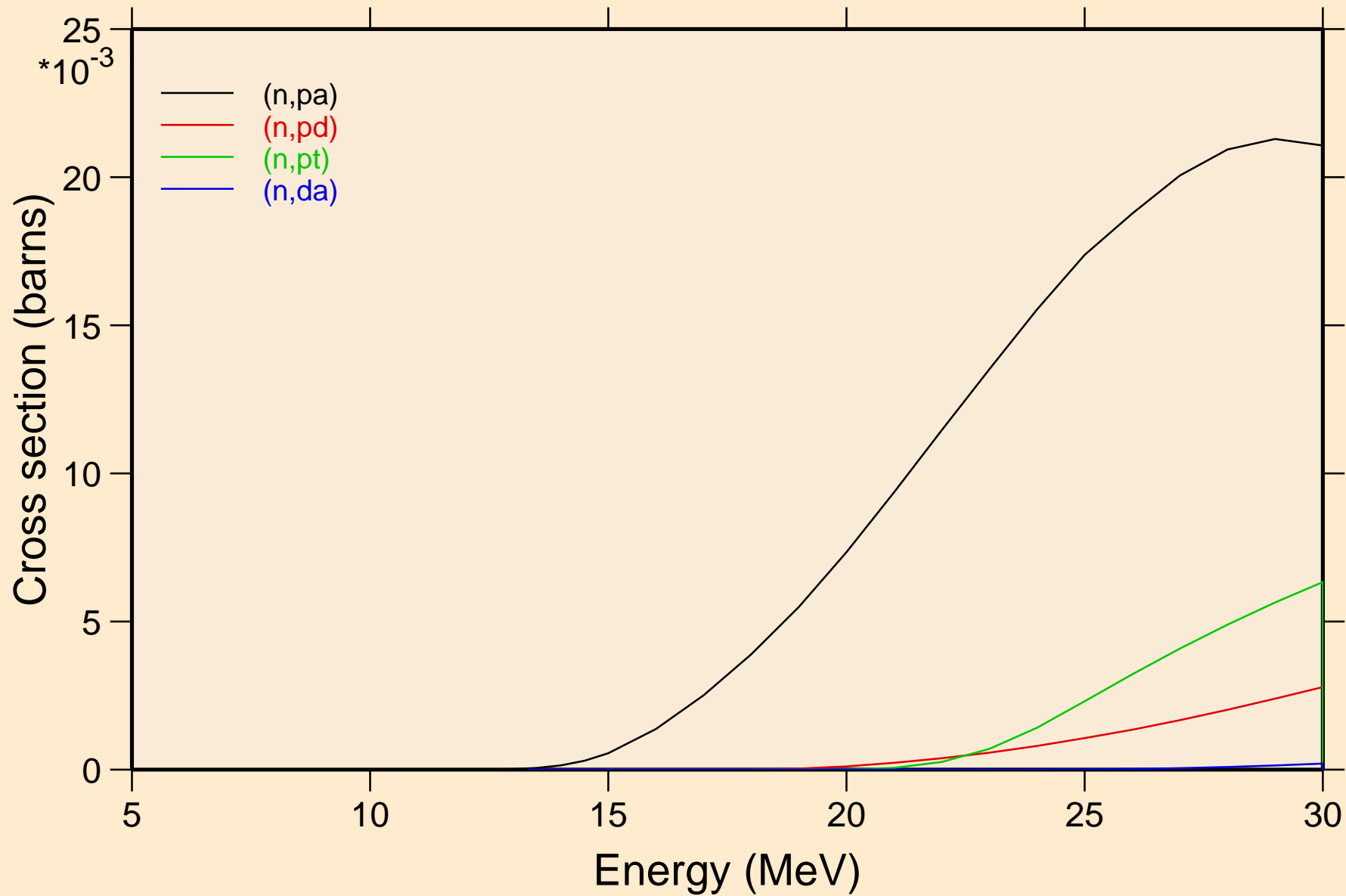




NI059 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Threshold reactions

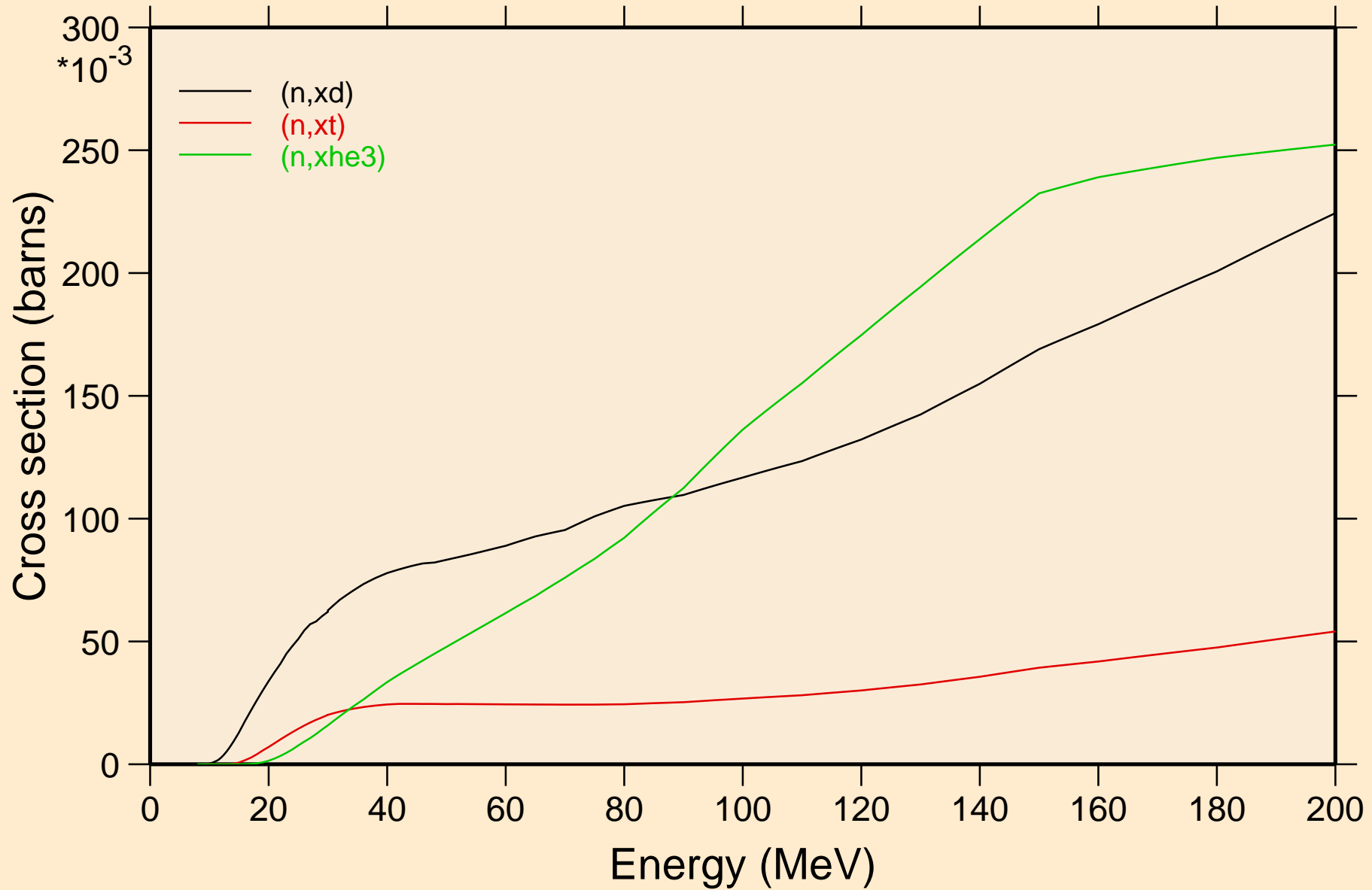


NI059 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Threshold reactions

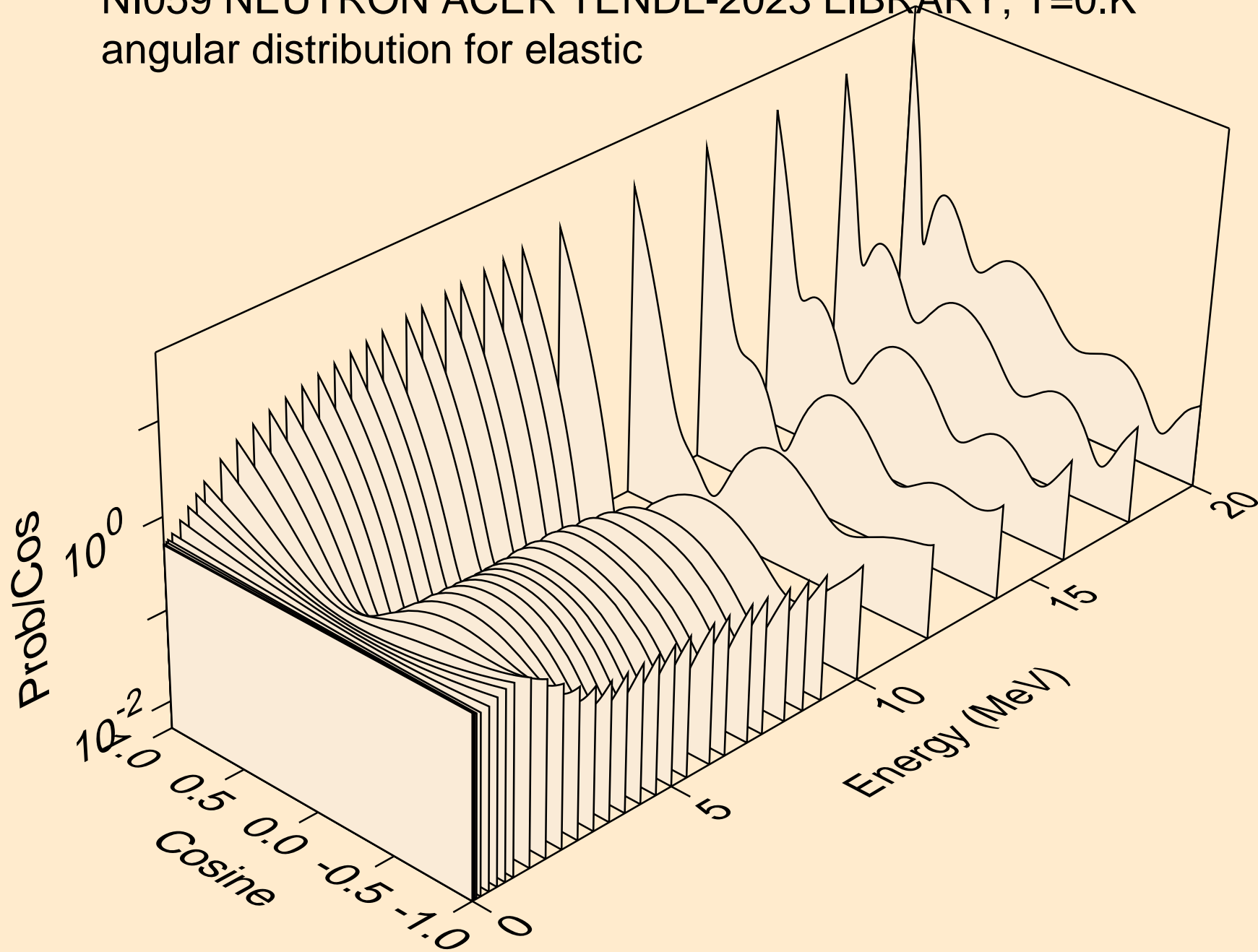


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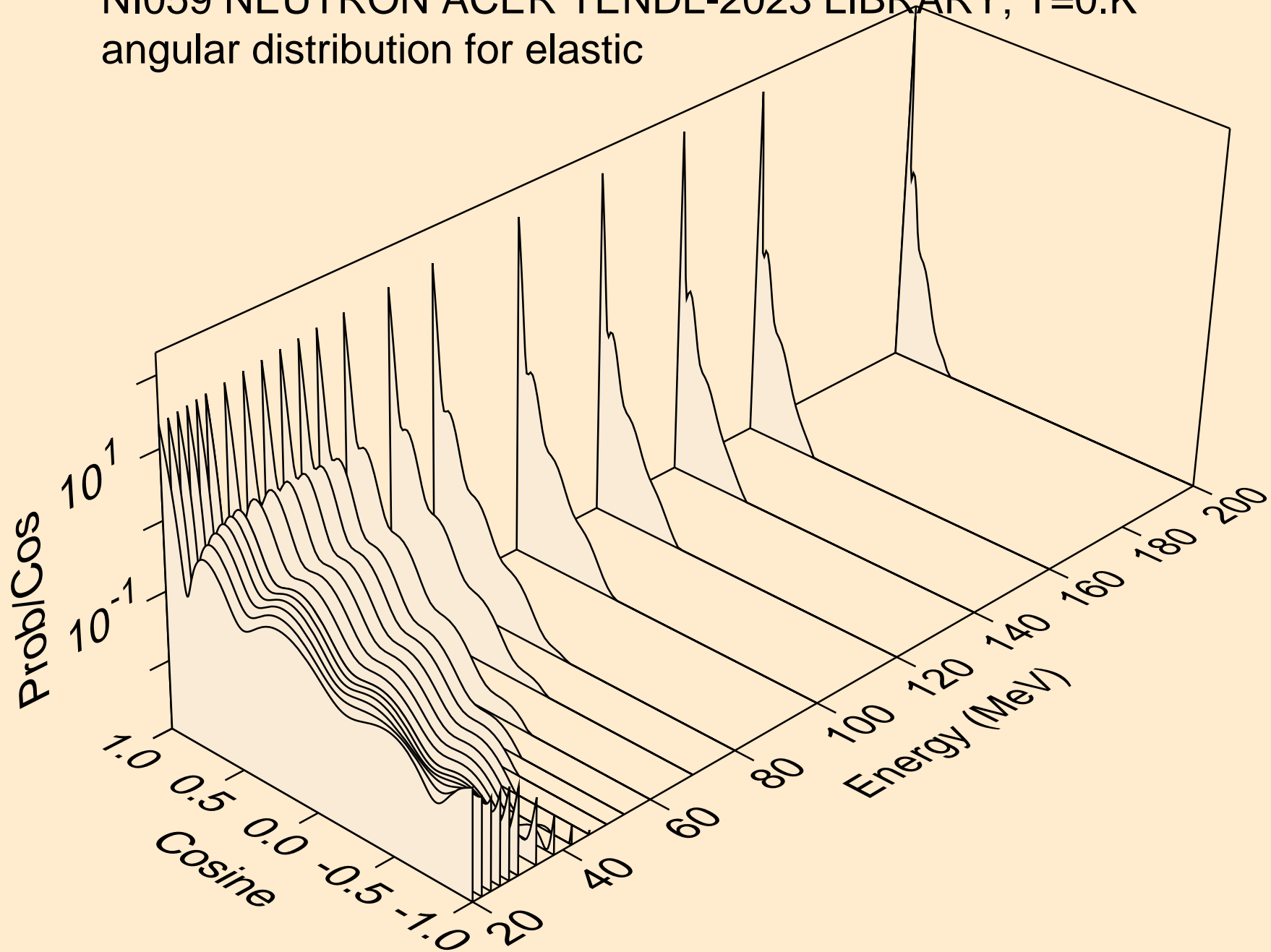
## Threshold reactions



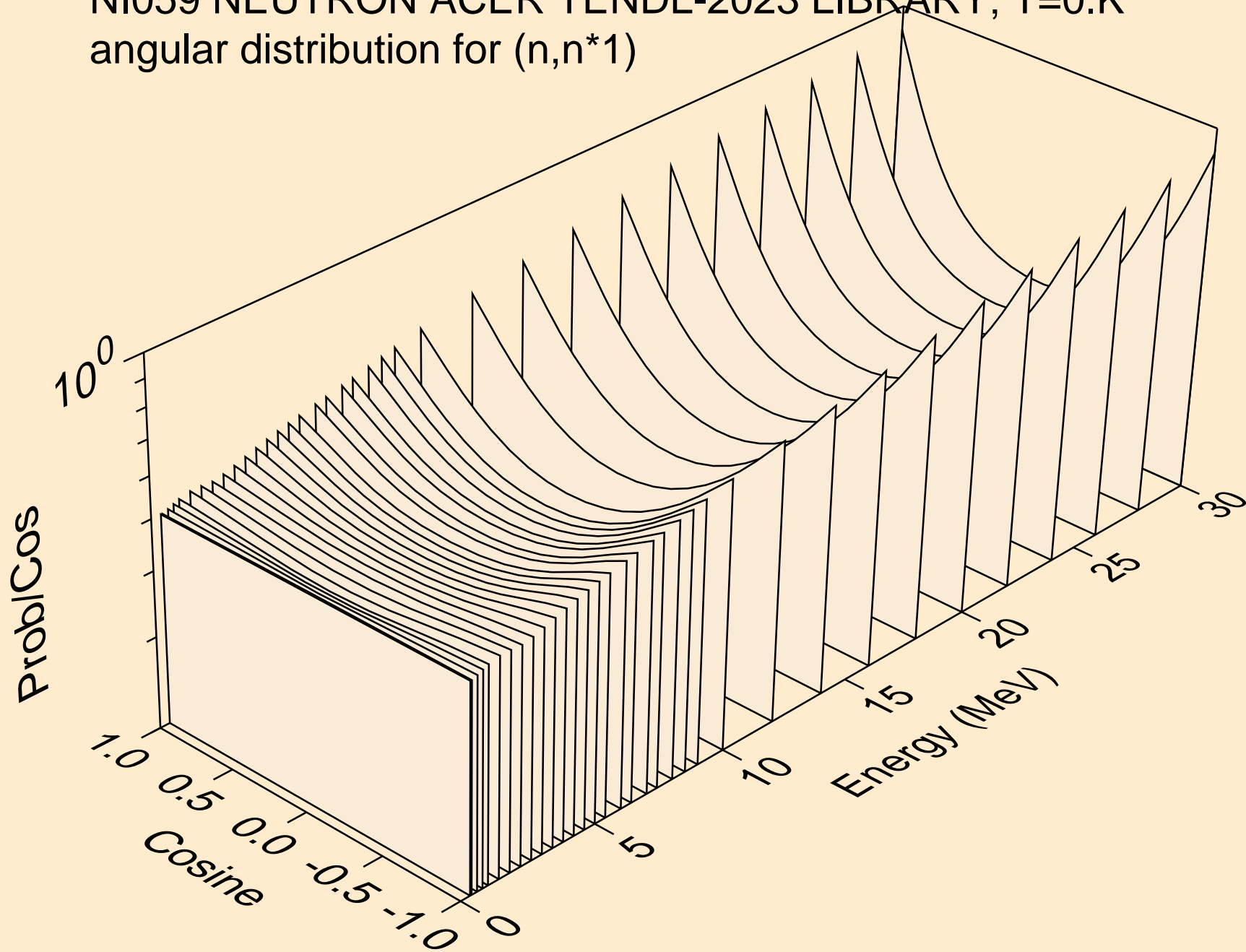
NI059 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for elastic



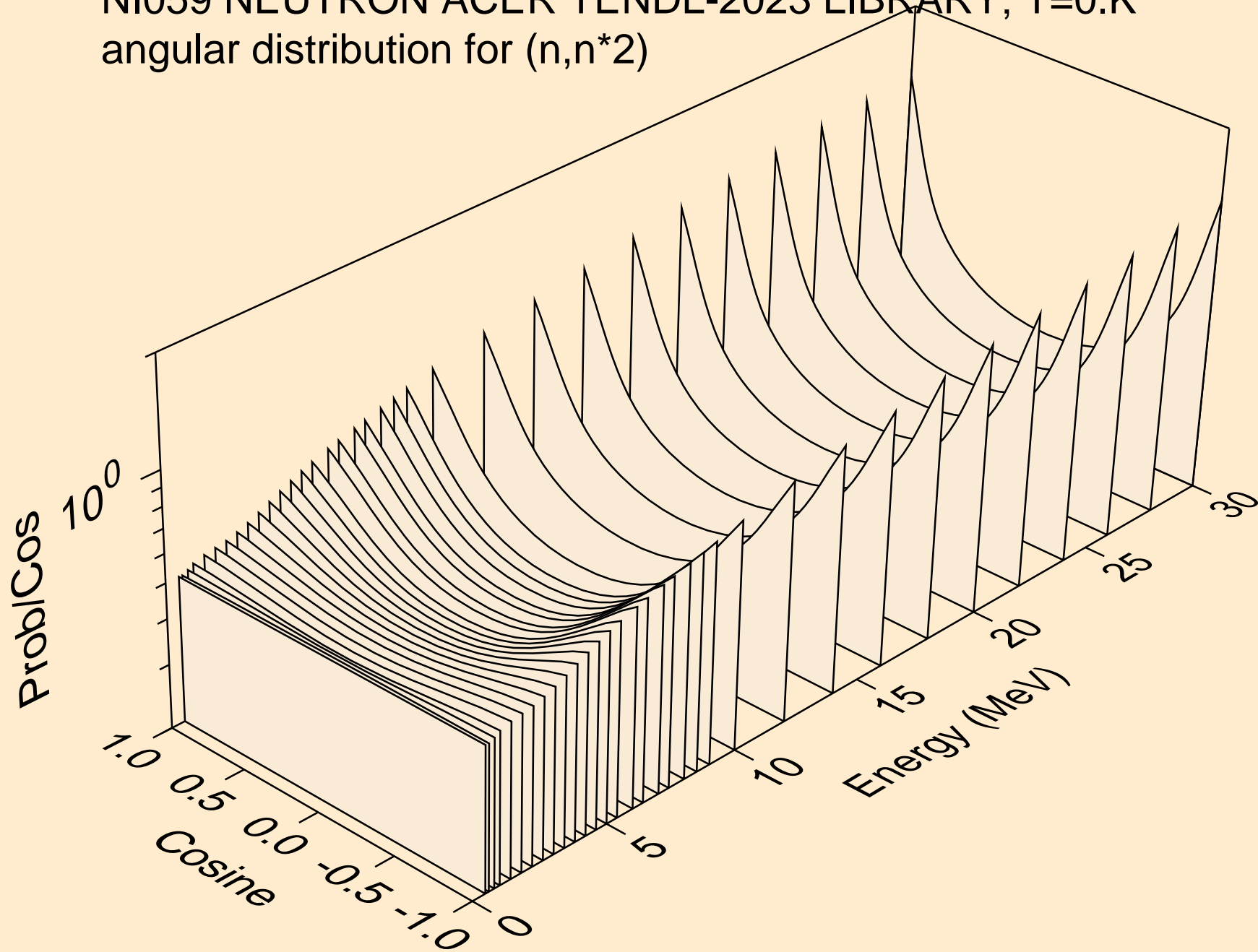
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angular distribution for elastic



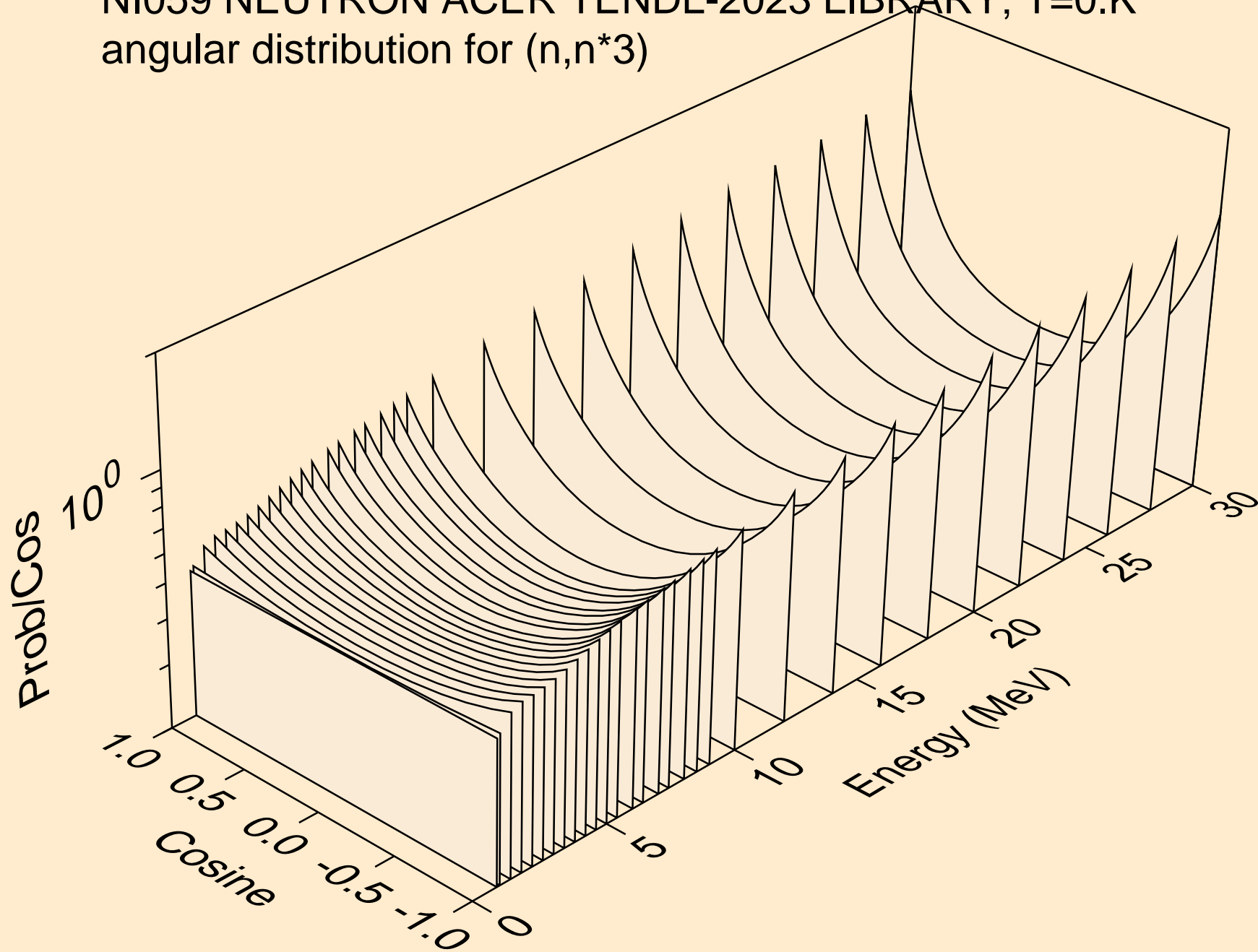
NI059 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*1)



NI059 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*2)

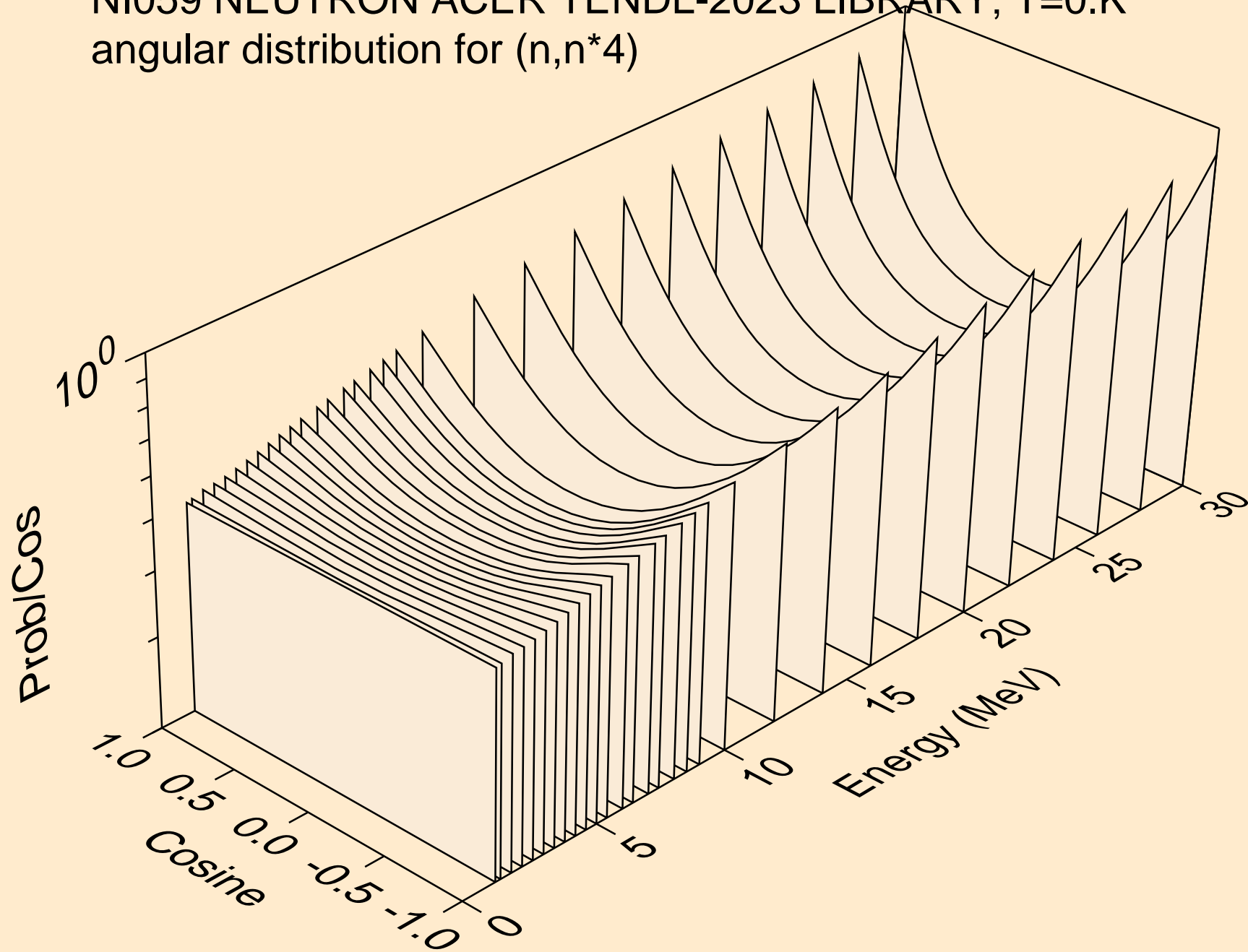


NI059 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*3)

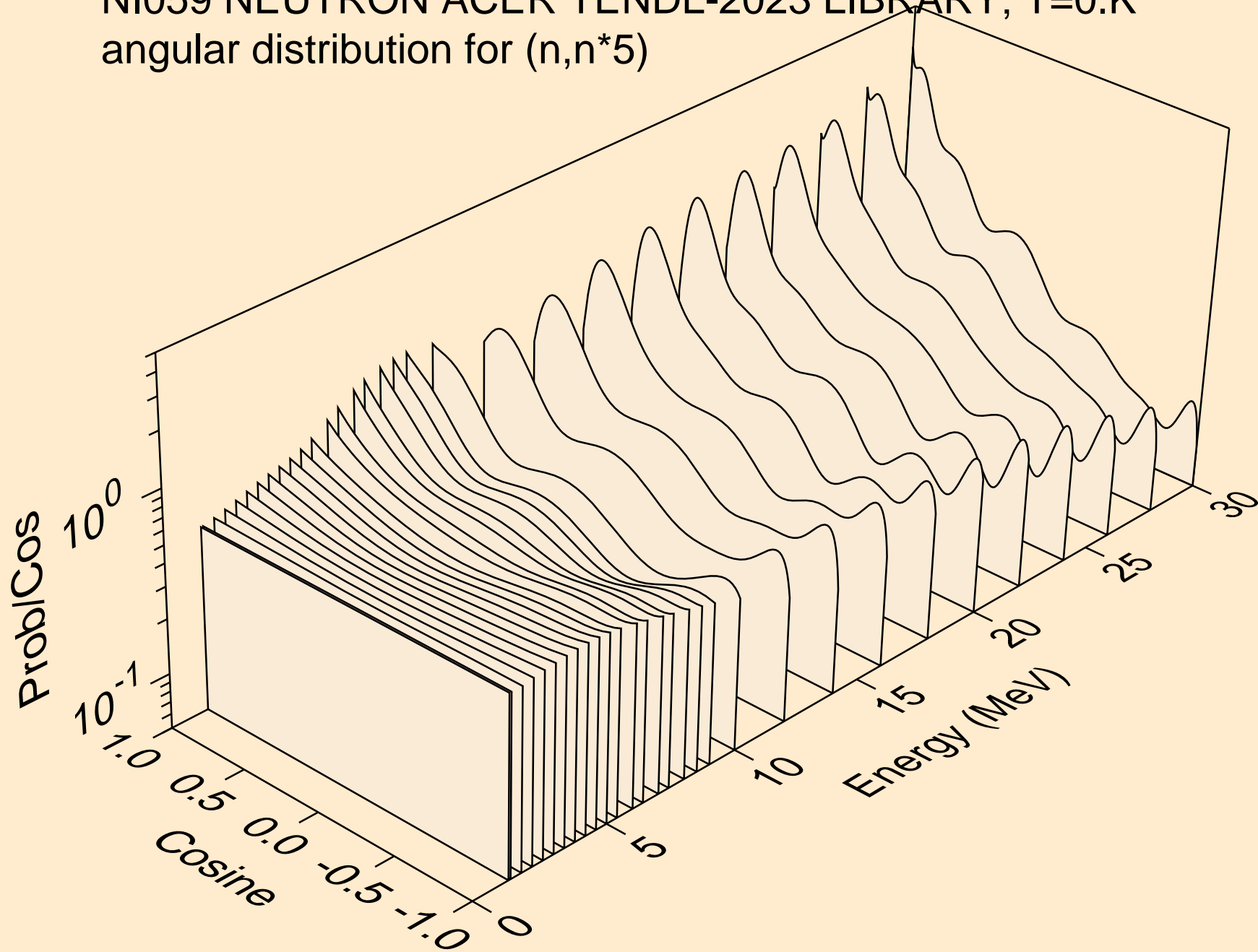




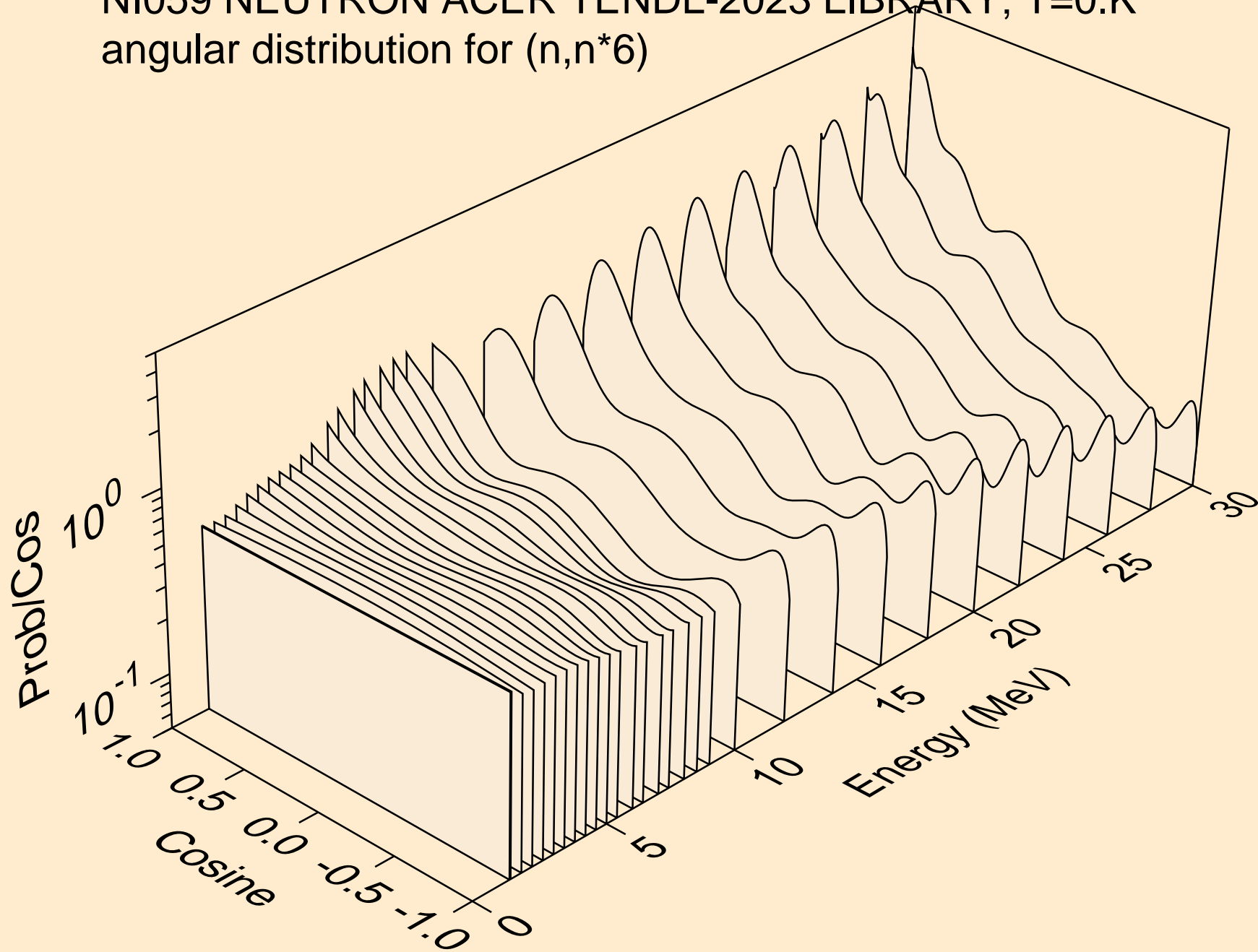
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angular distribution for (n,n\*4)



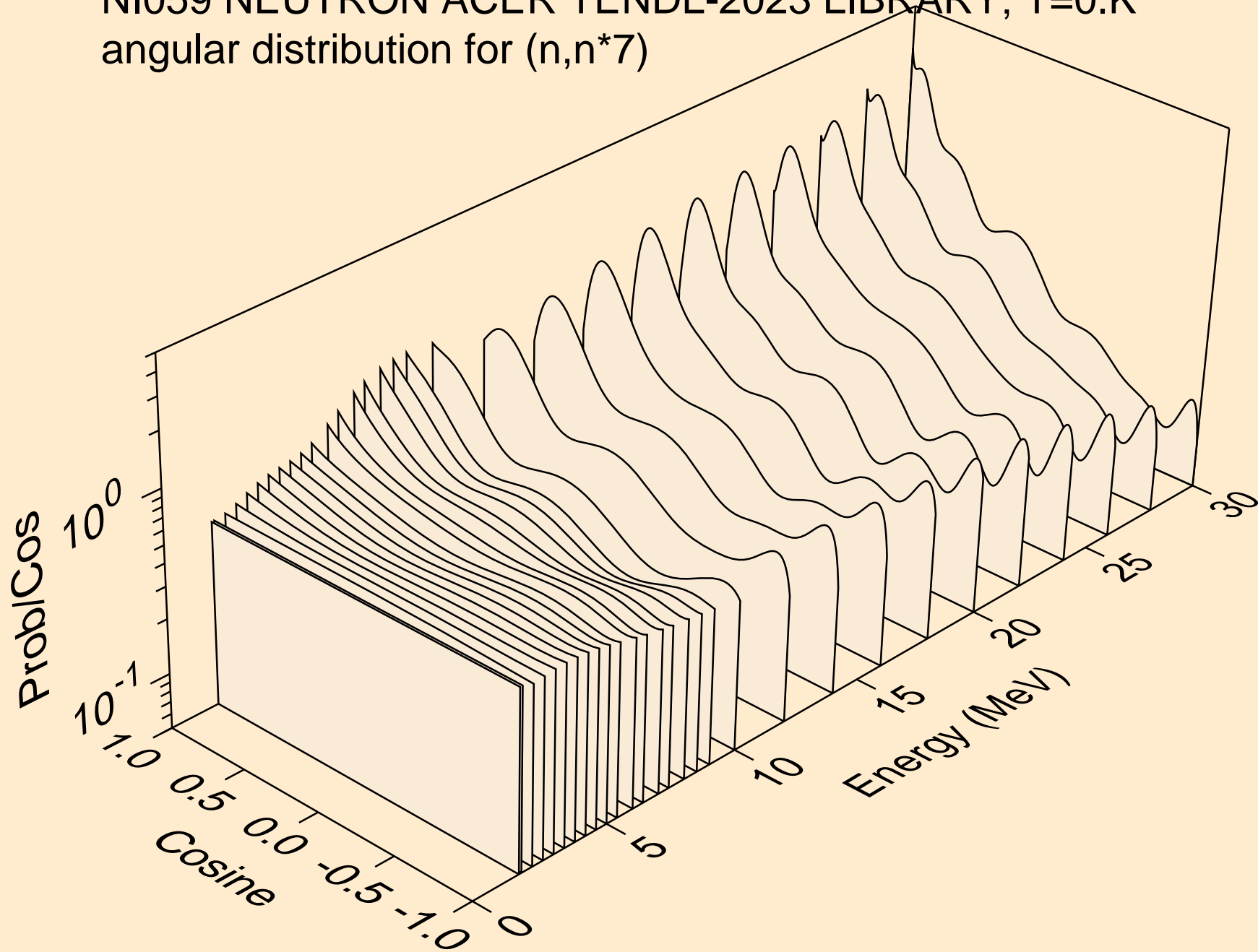
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angular distribution for (n,n\*5)



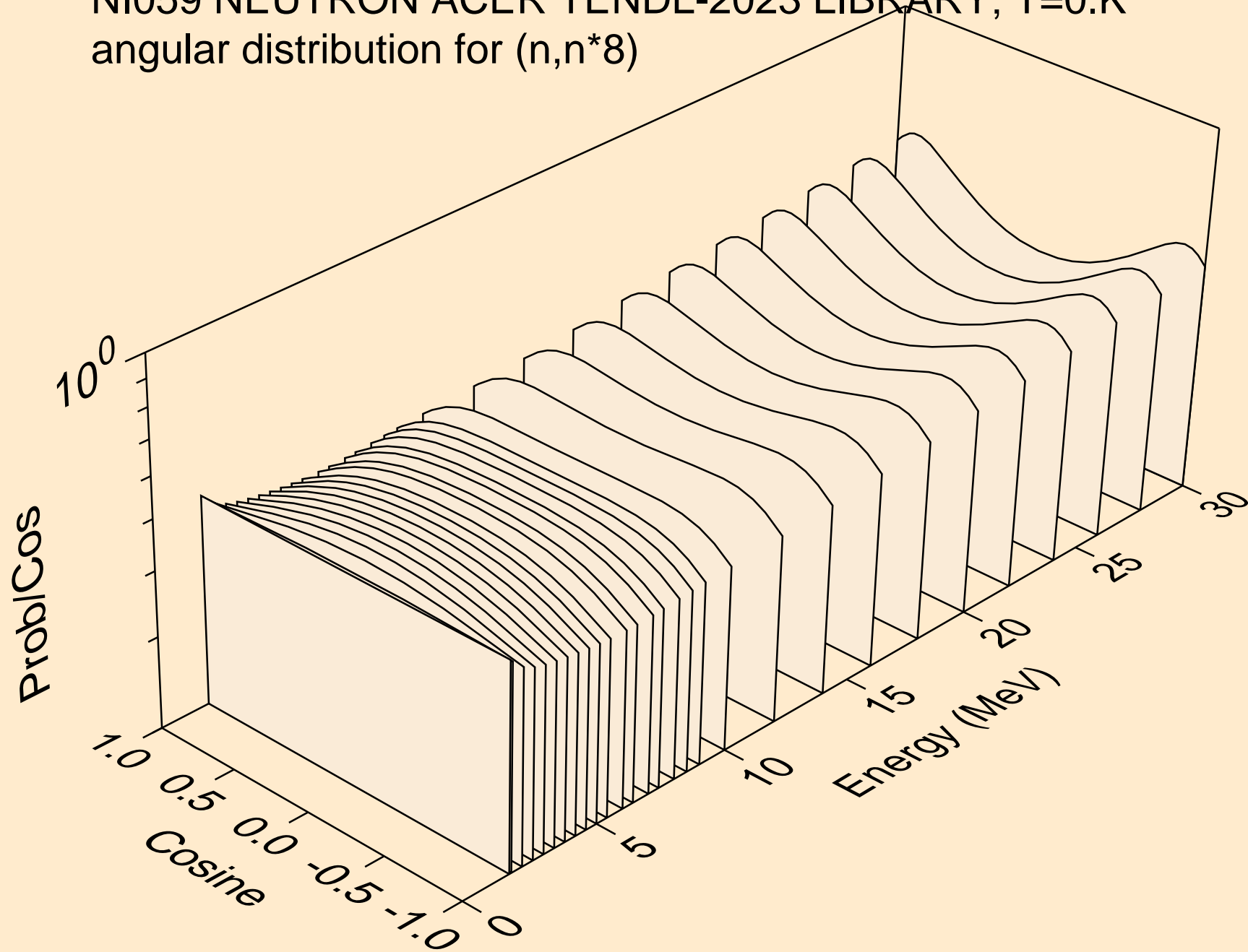
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angular distribution for (n,n\*6)



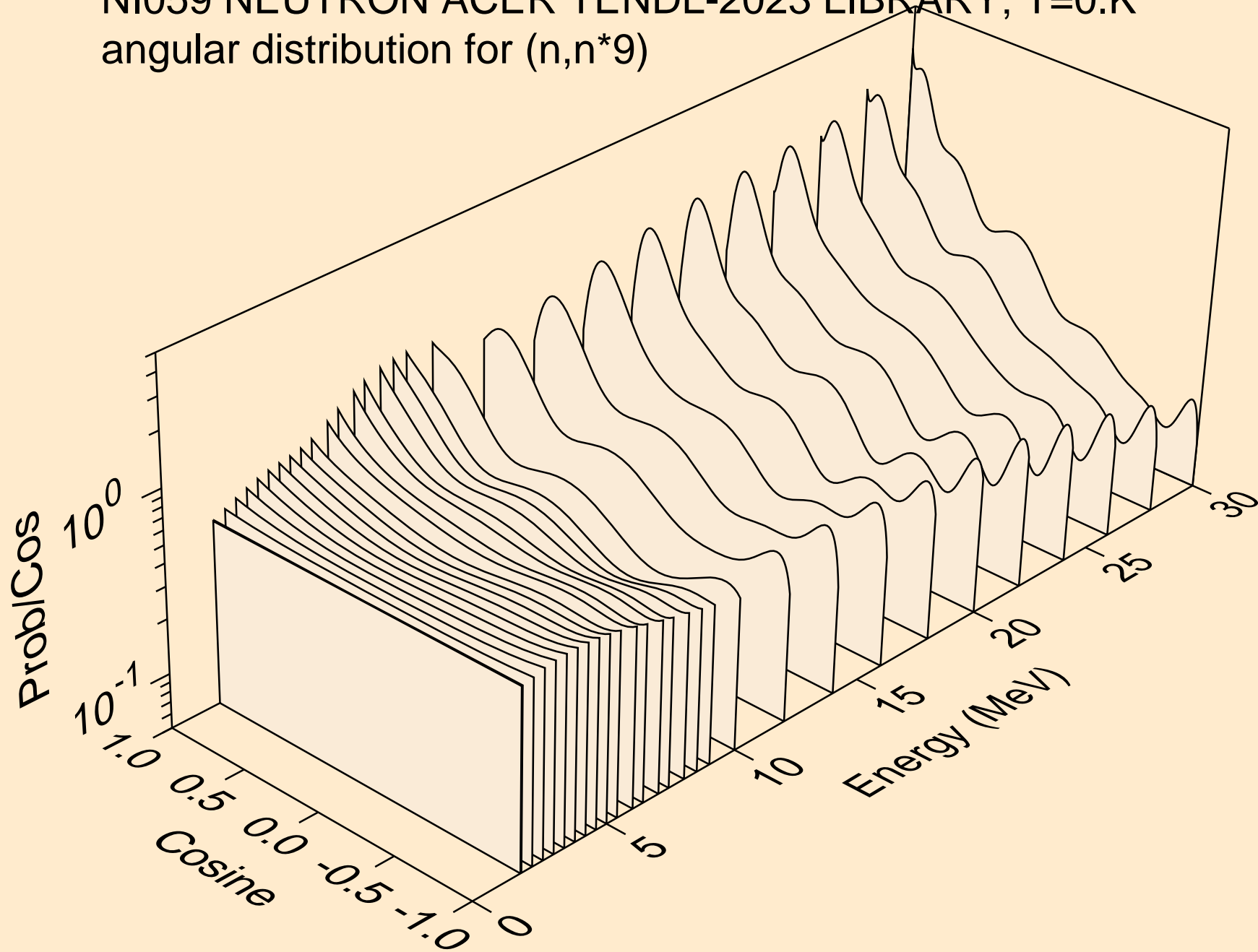
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angular distribution for (n,n\*7)



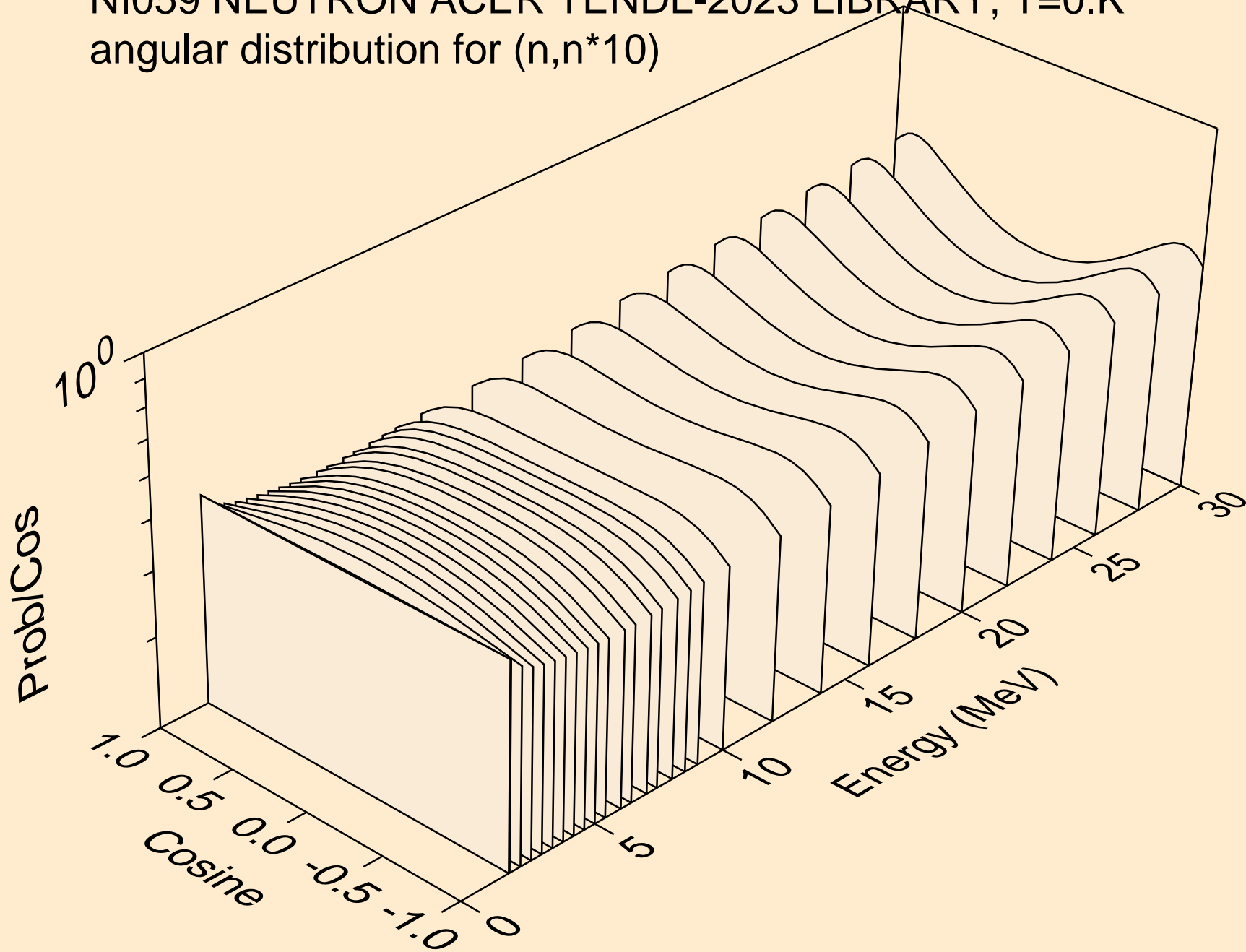
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angular distribution for (n,n\*8)



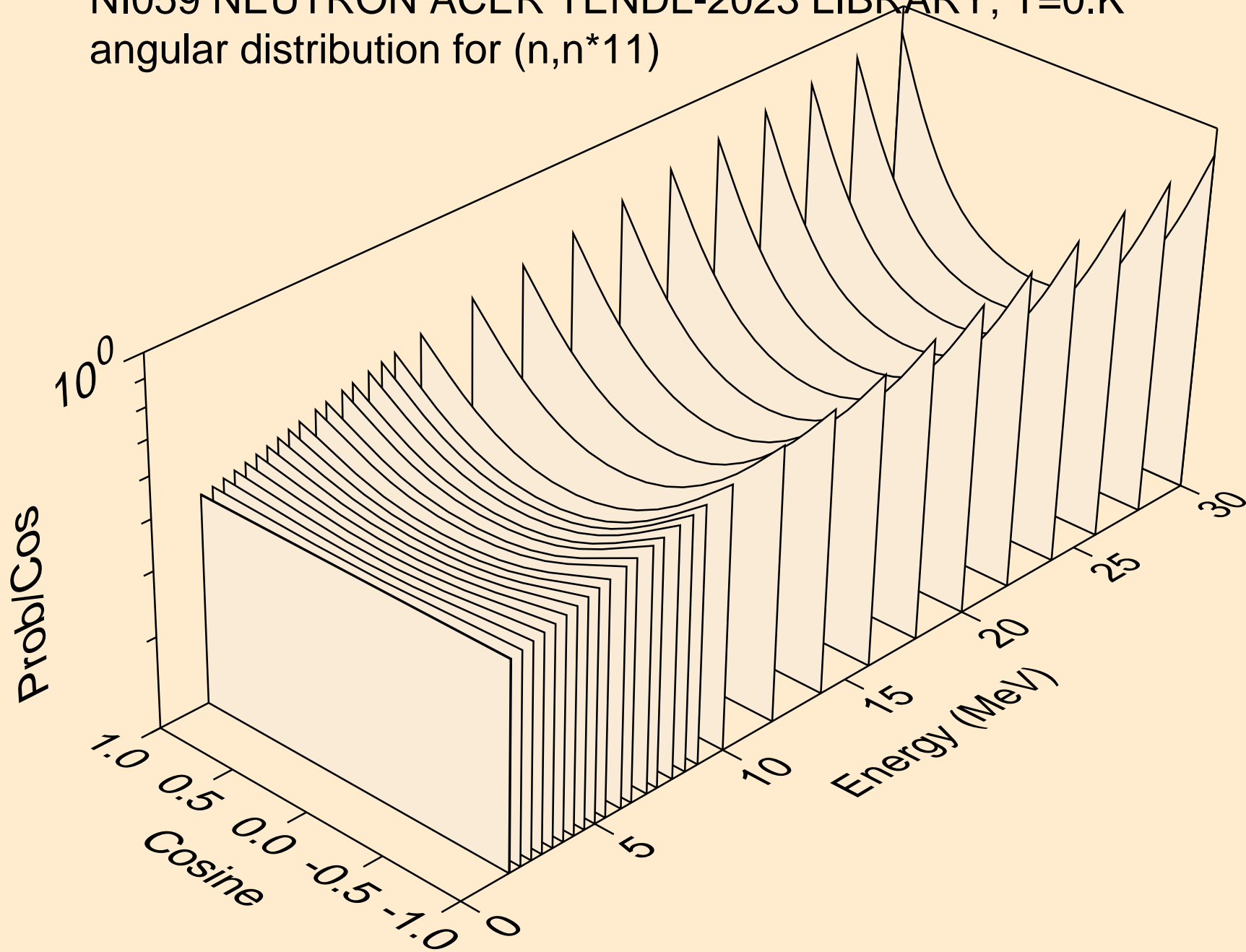
NI059 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*9)



NI059 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*10)

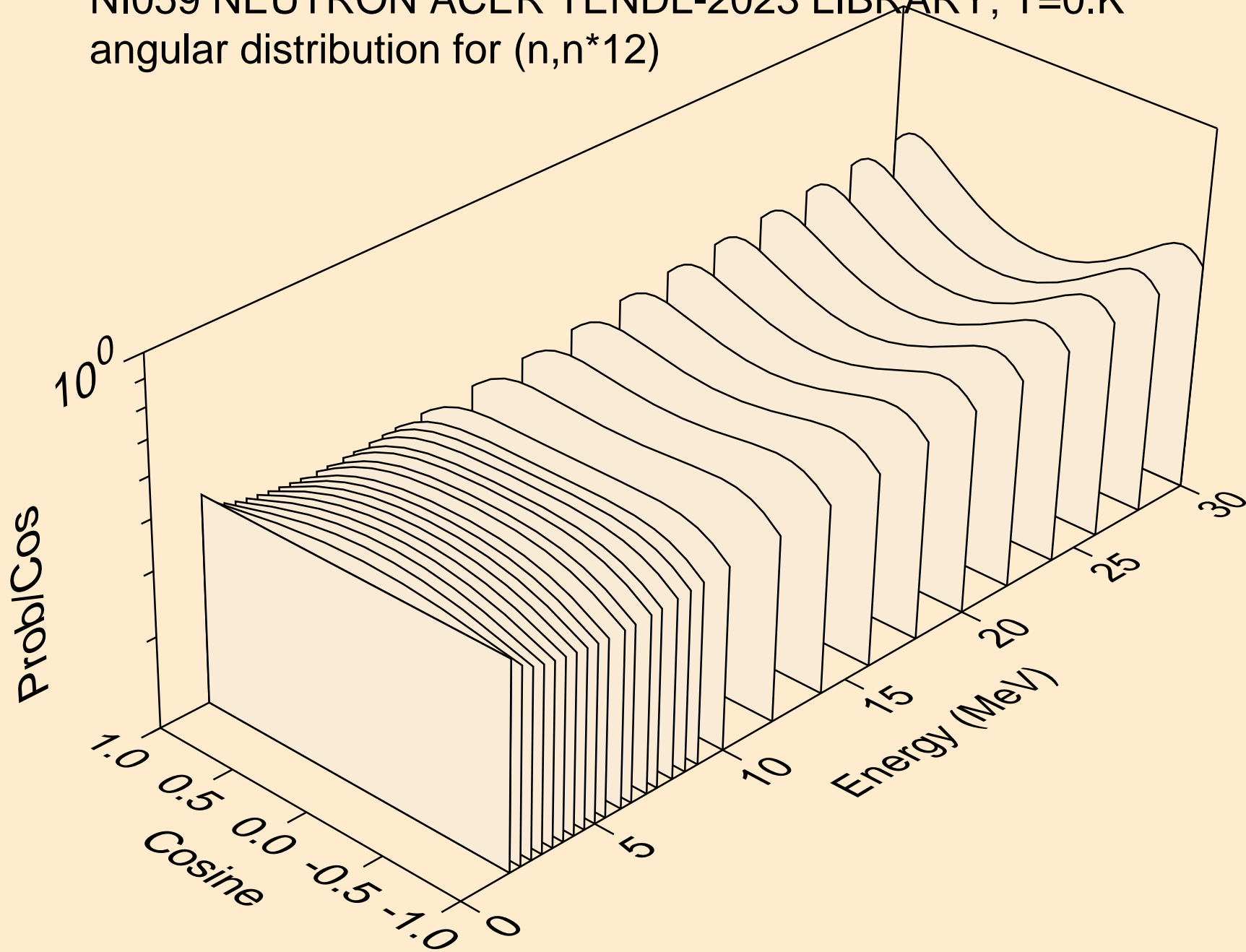


NI059 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*11)

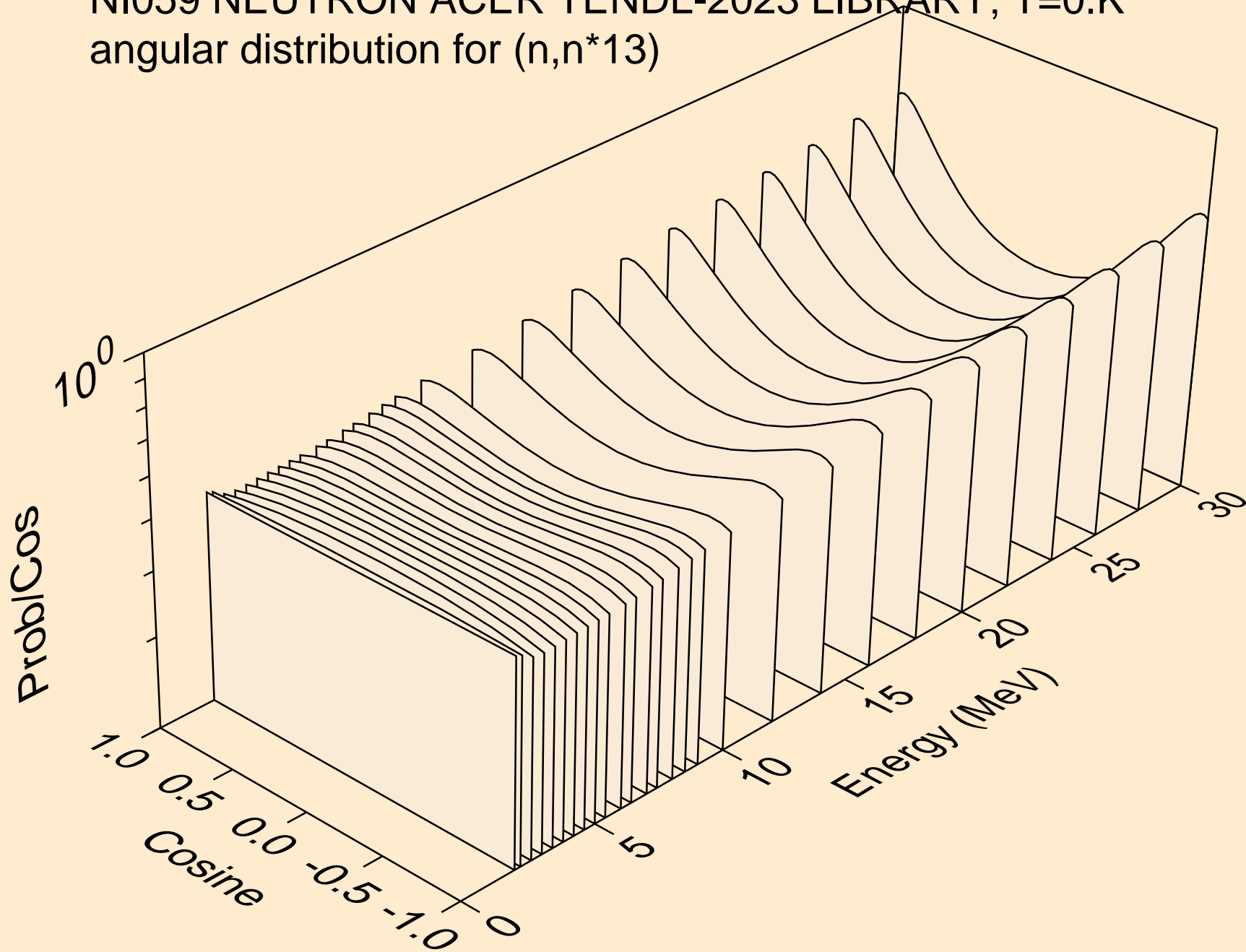




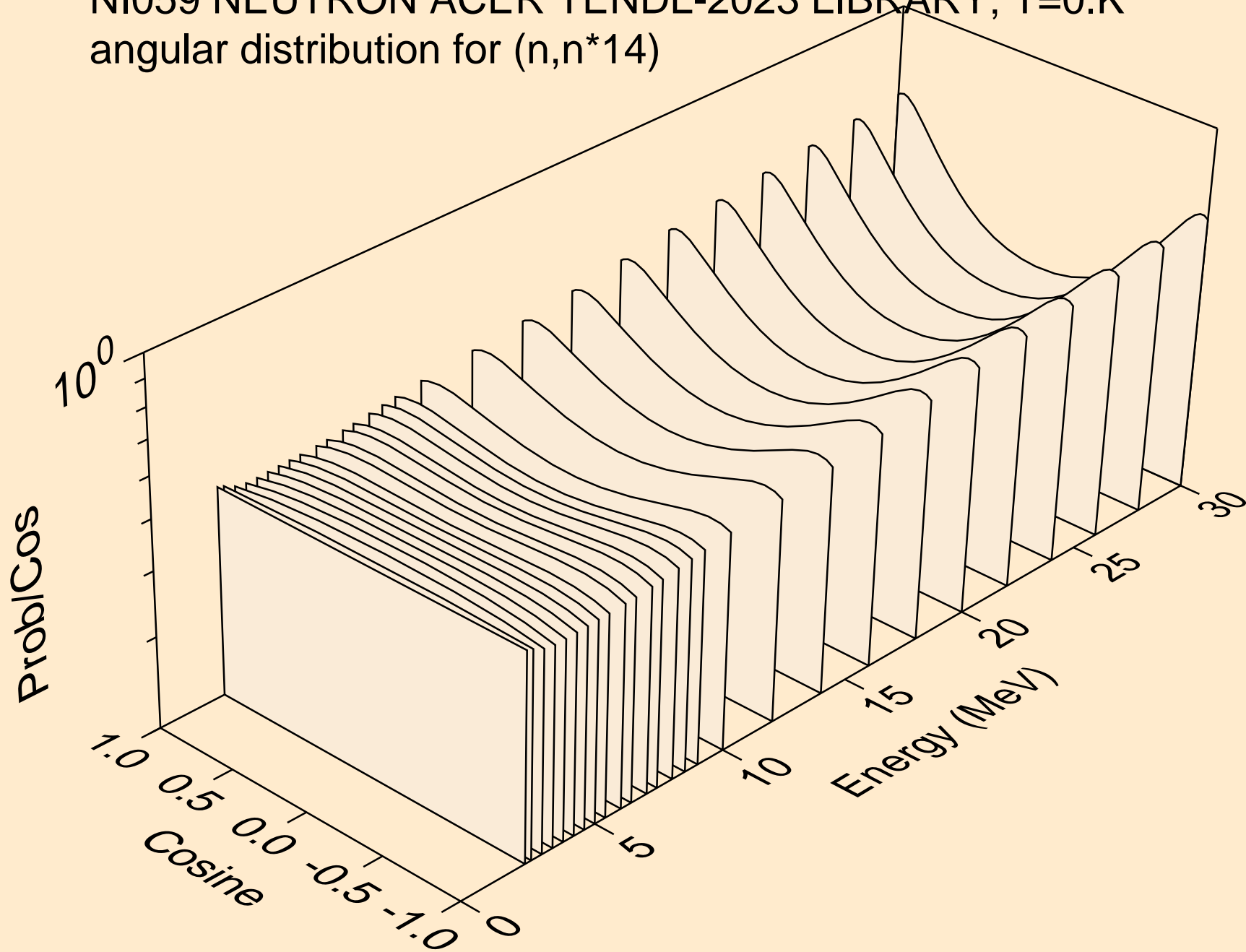
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angular distribution for (n,n\*12)



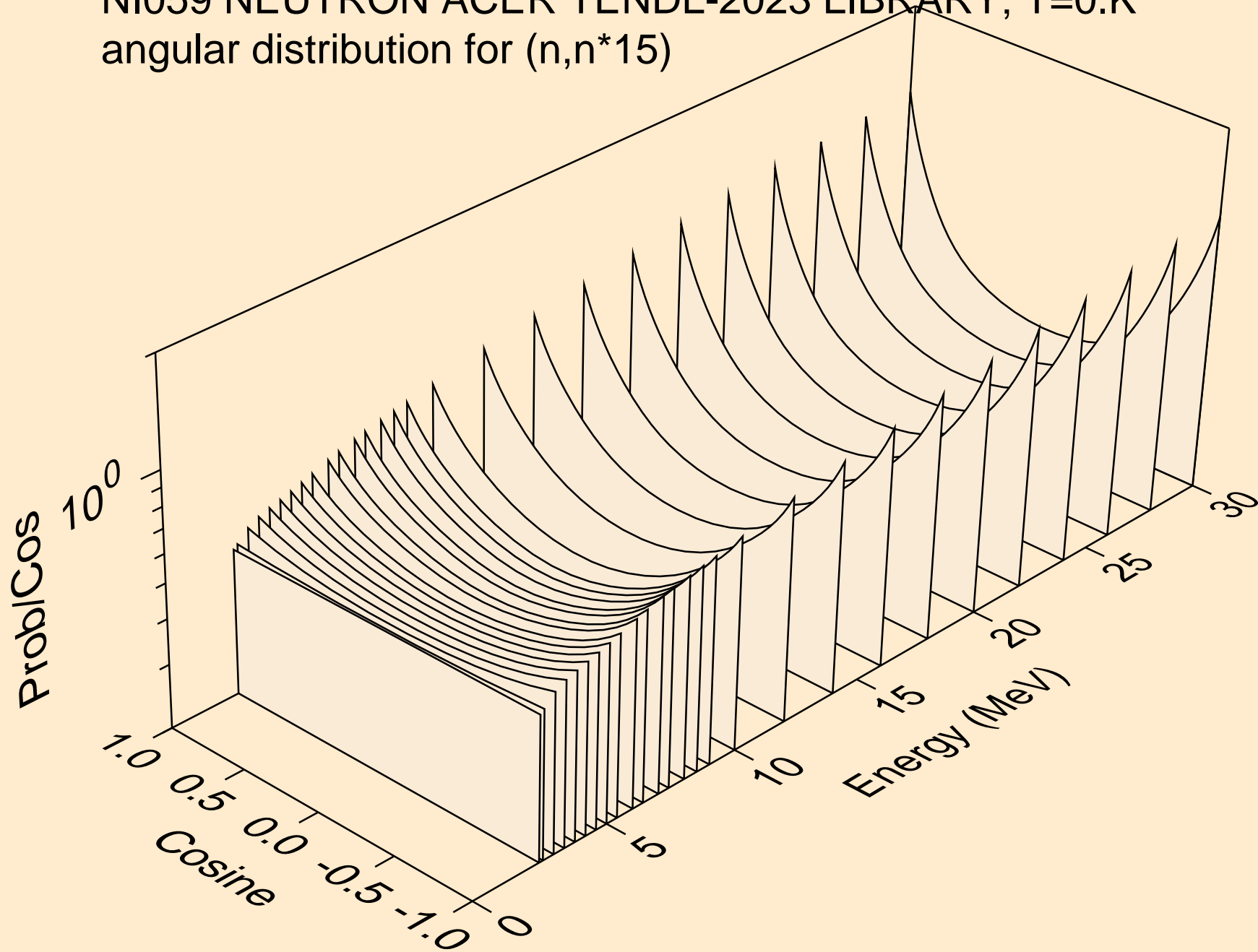
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angular distribution for (n,n\*13)



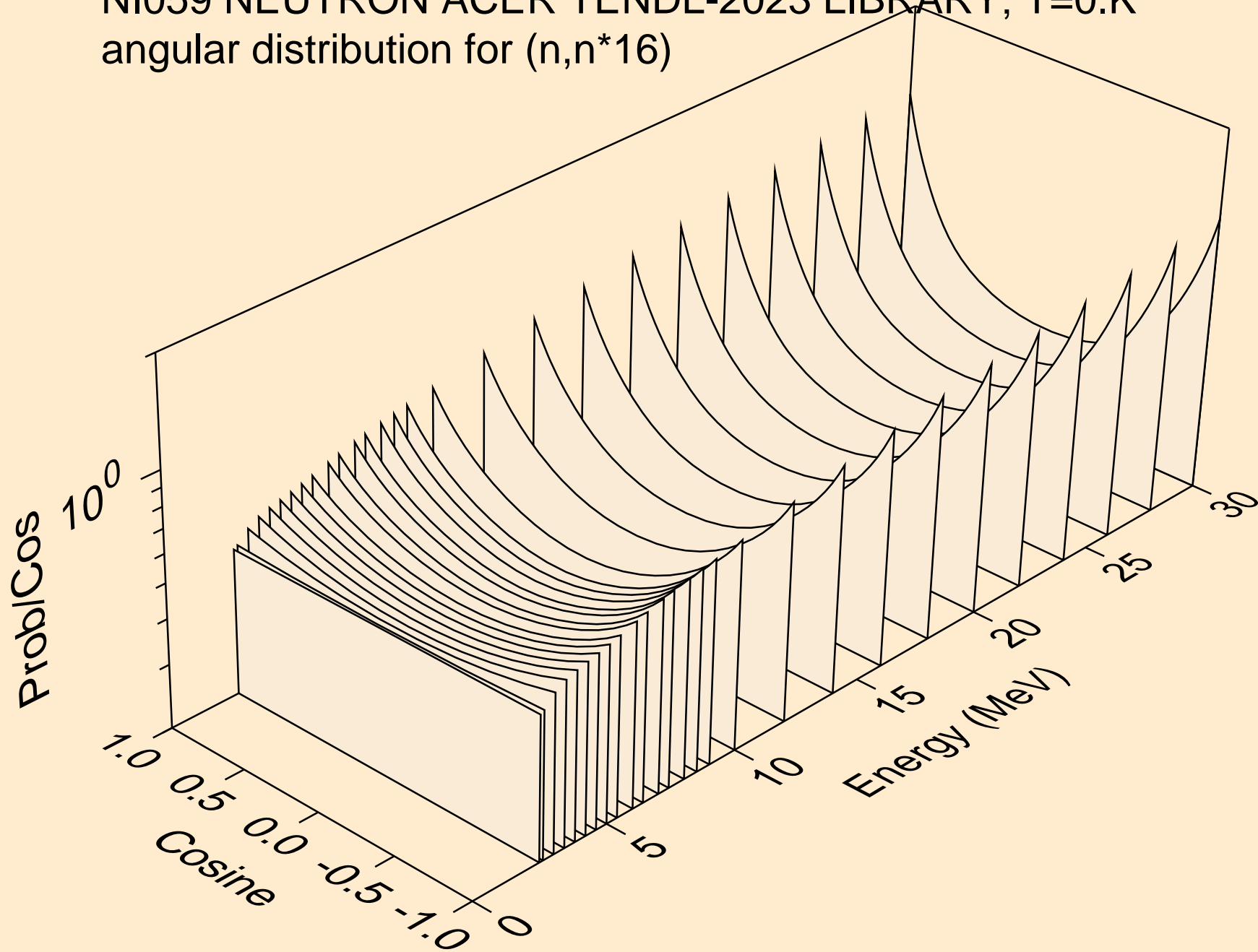
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angular distribution for (n,n\*14)



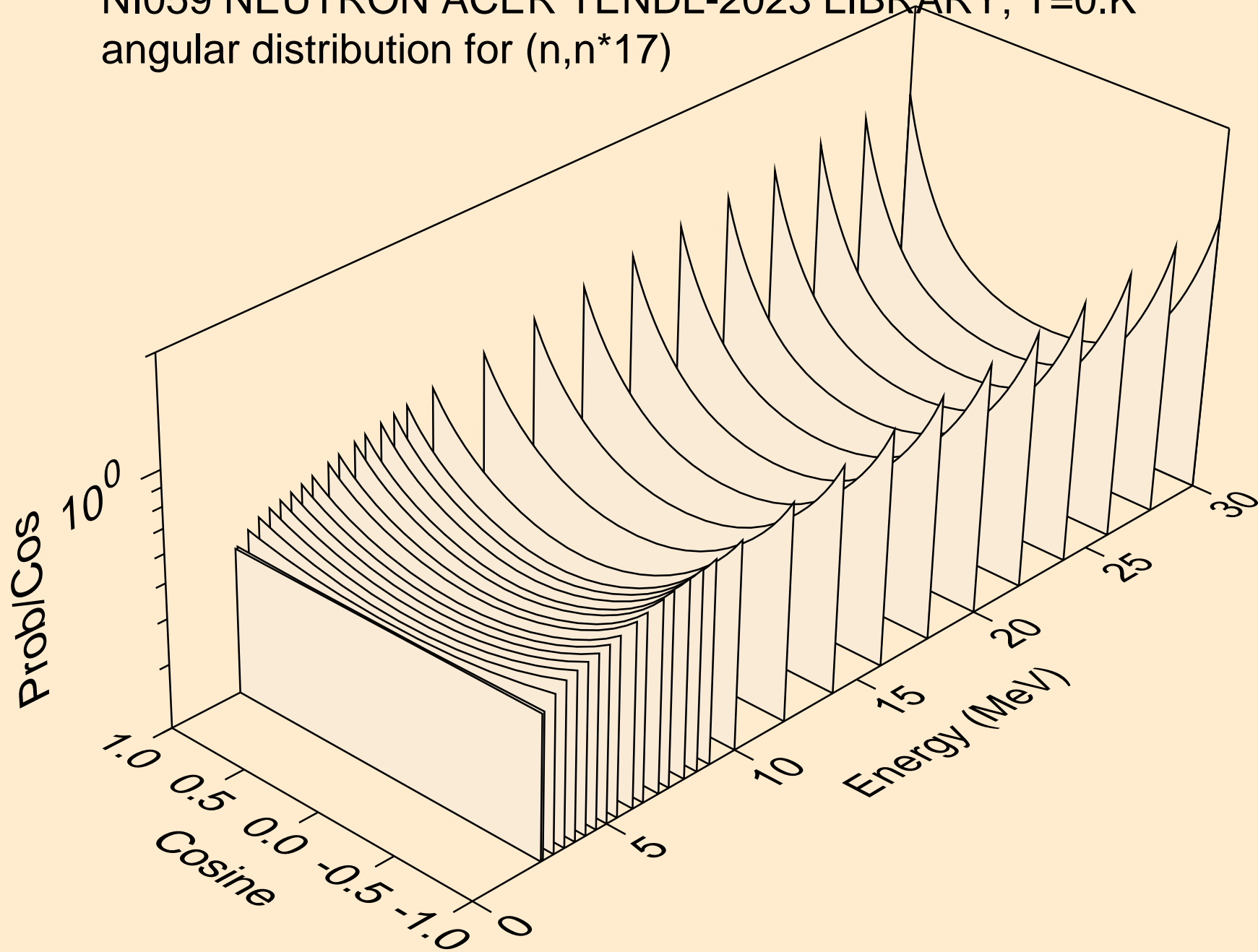
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angular distribution for (n,n\*15)



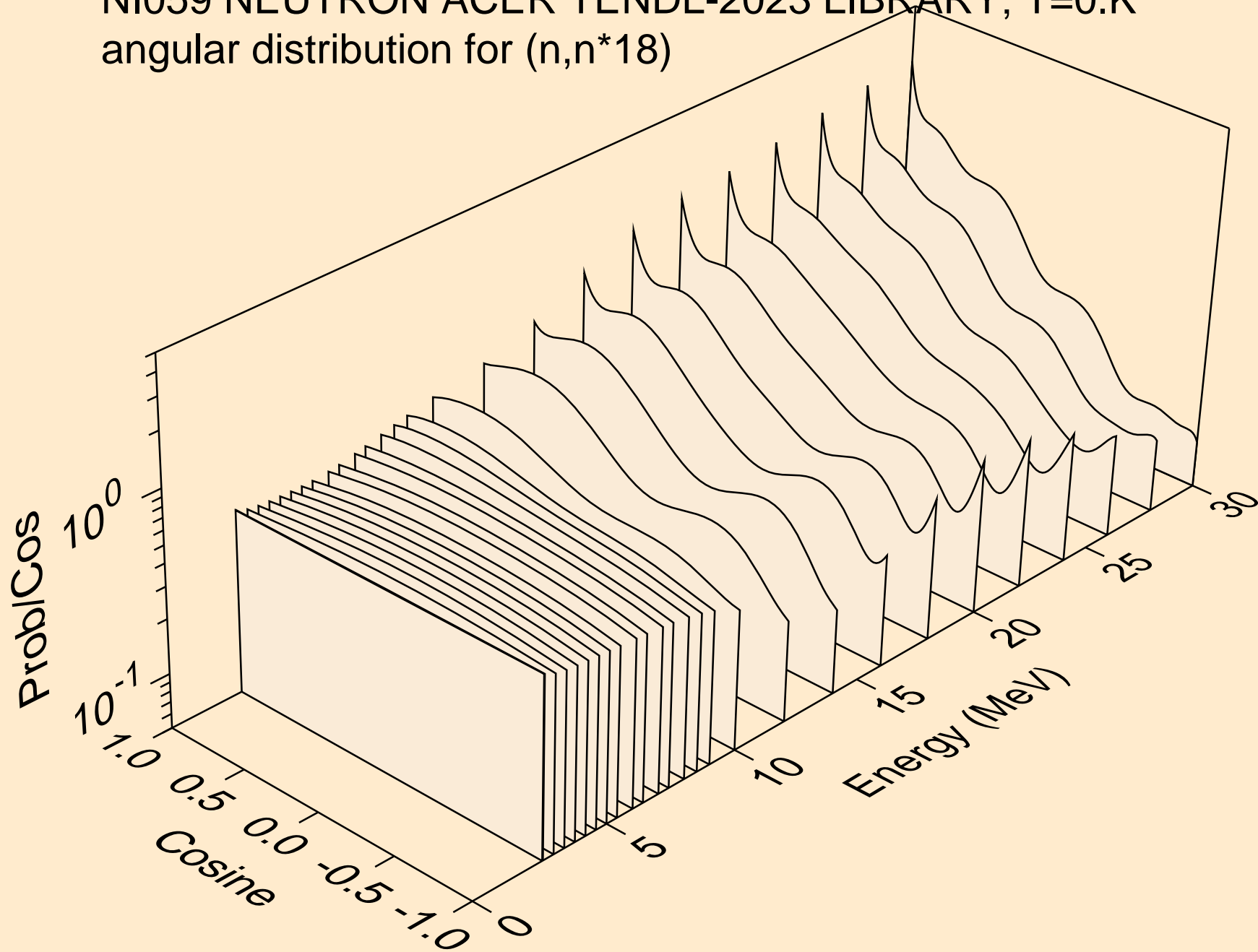
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angular distribution for (n,n\*16)



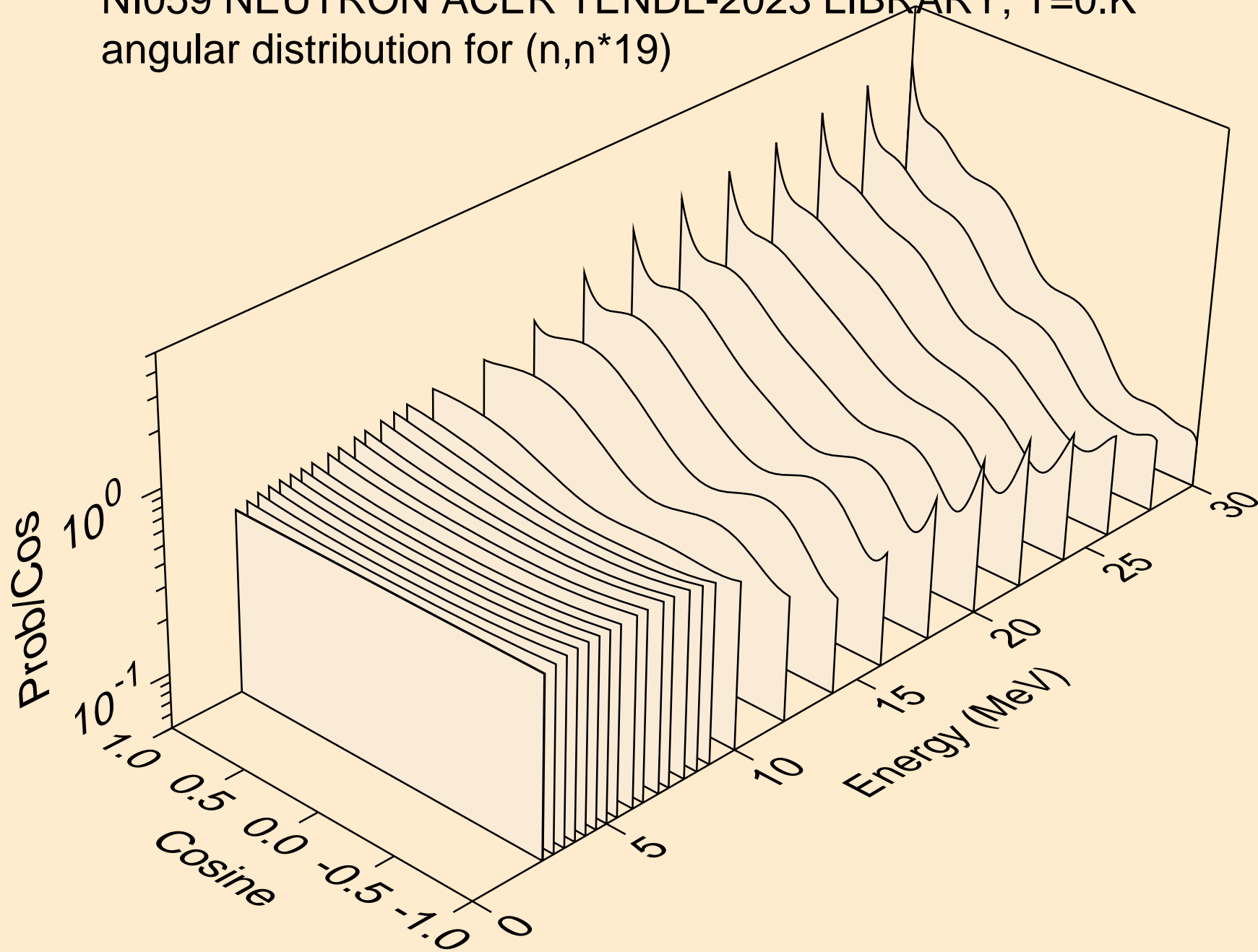
NI059 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*17)



NI059 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*18)

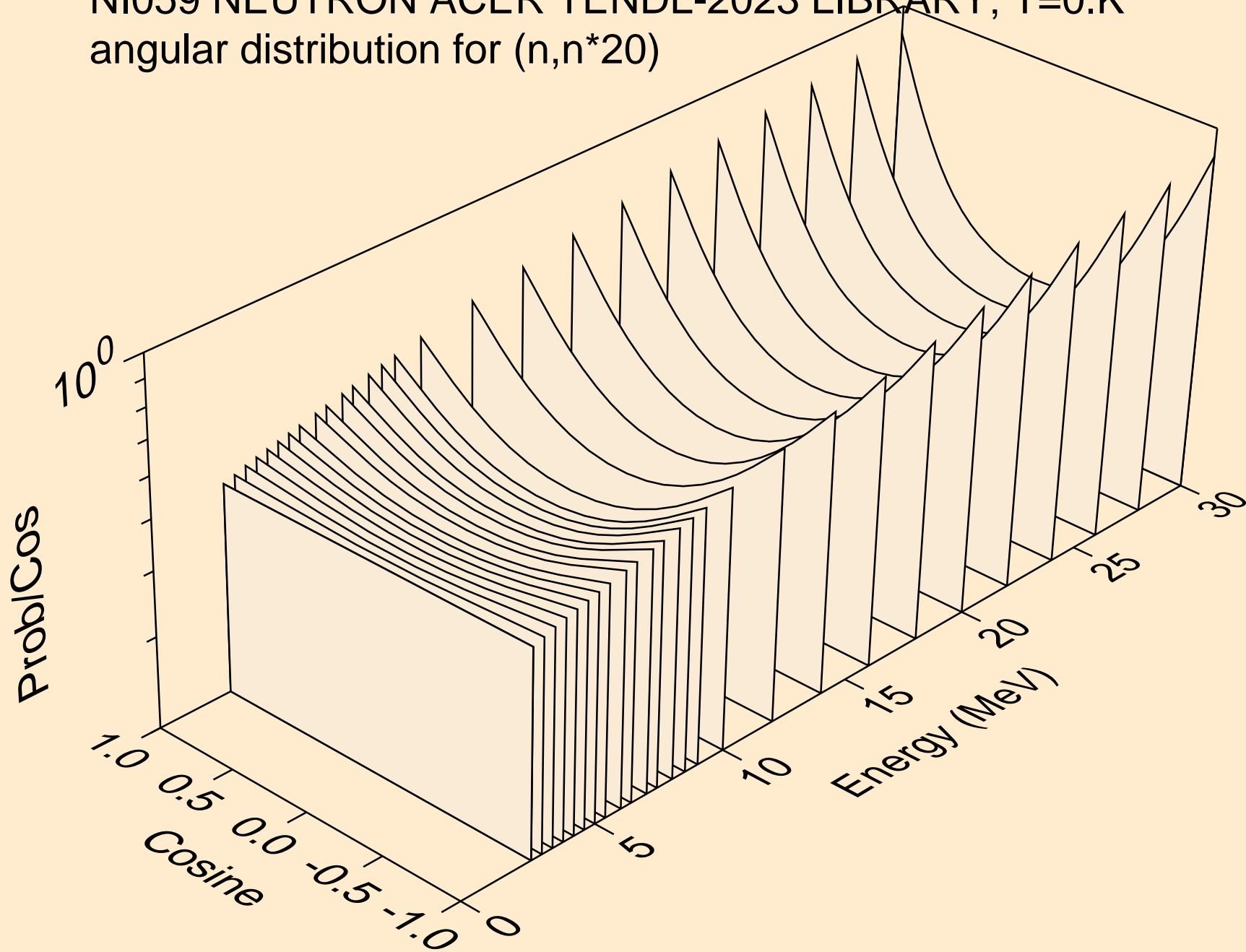


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angular distribution for (n,n\*19)

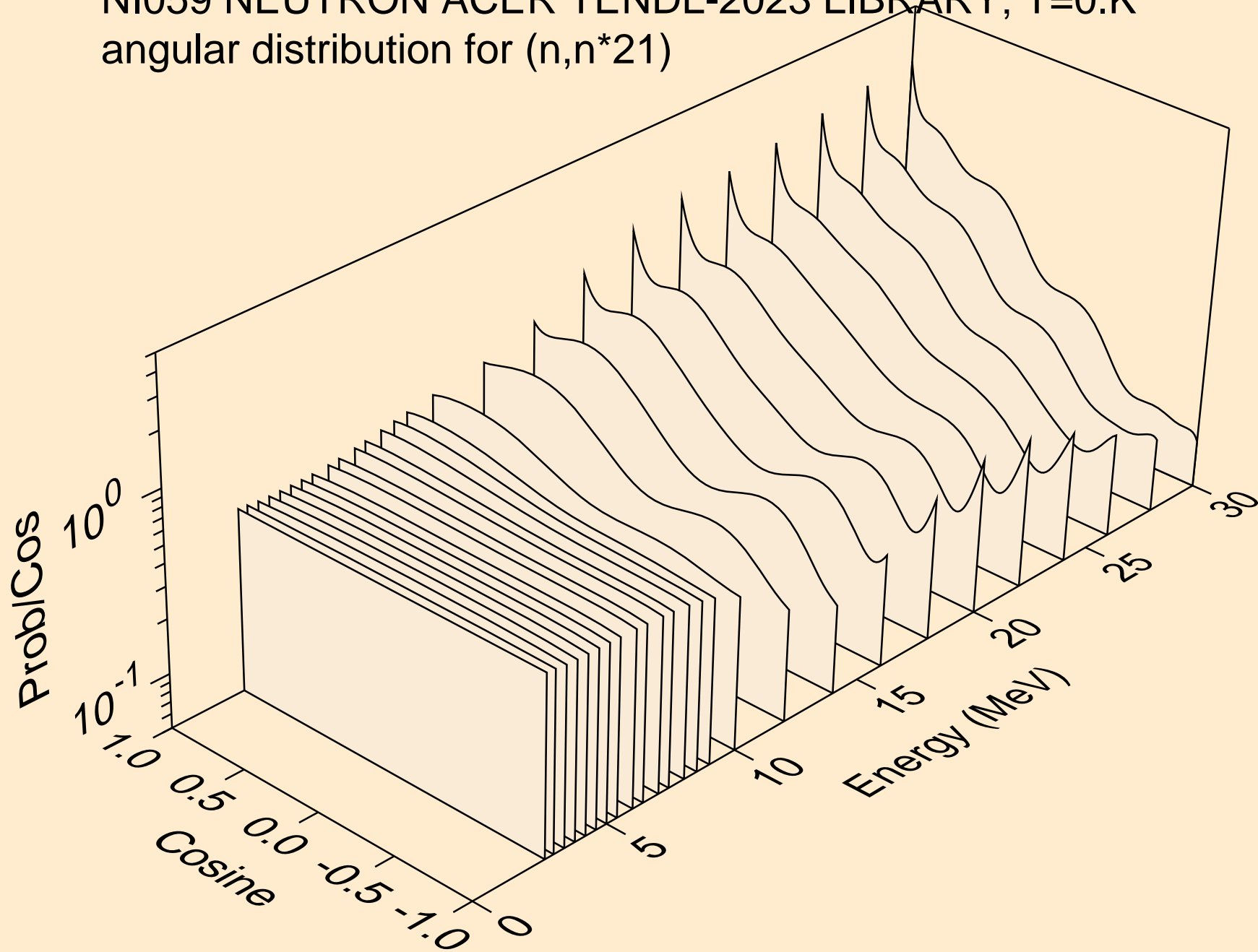




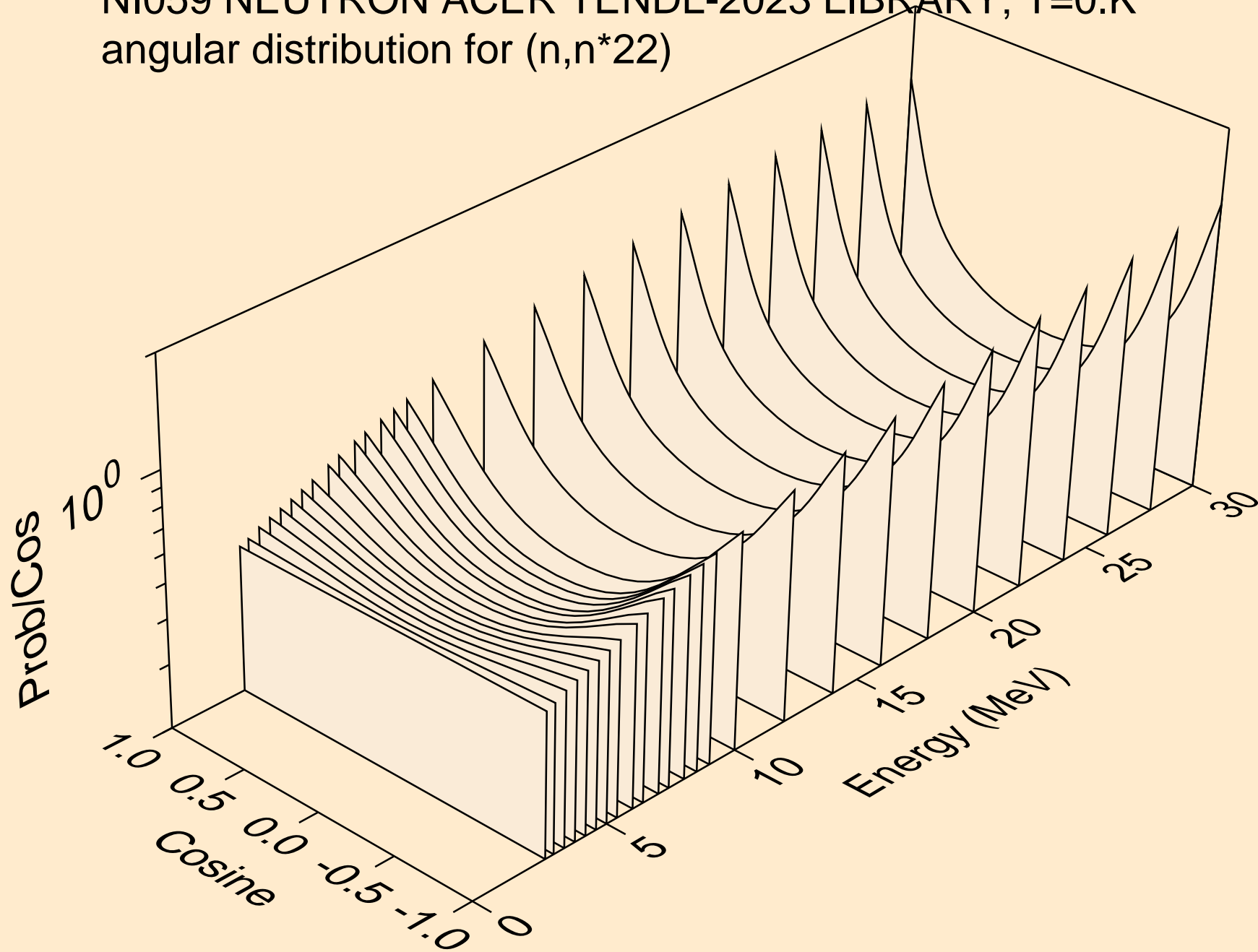
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angular distribution for (n,n\*20)



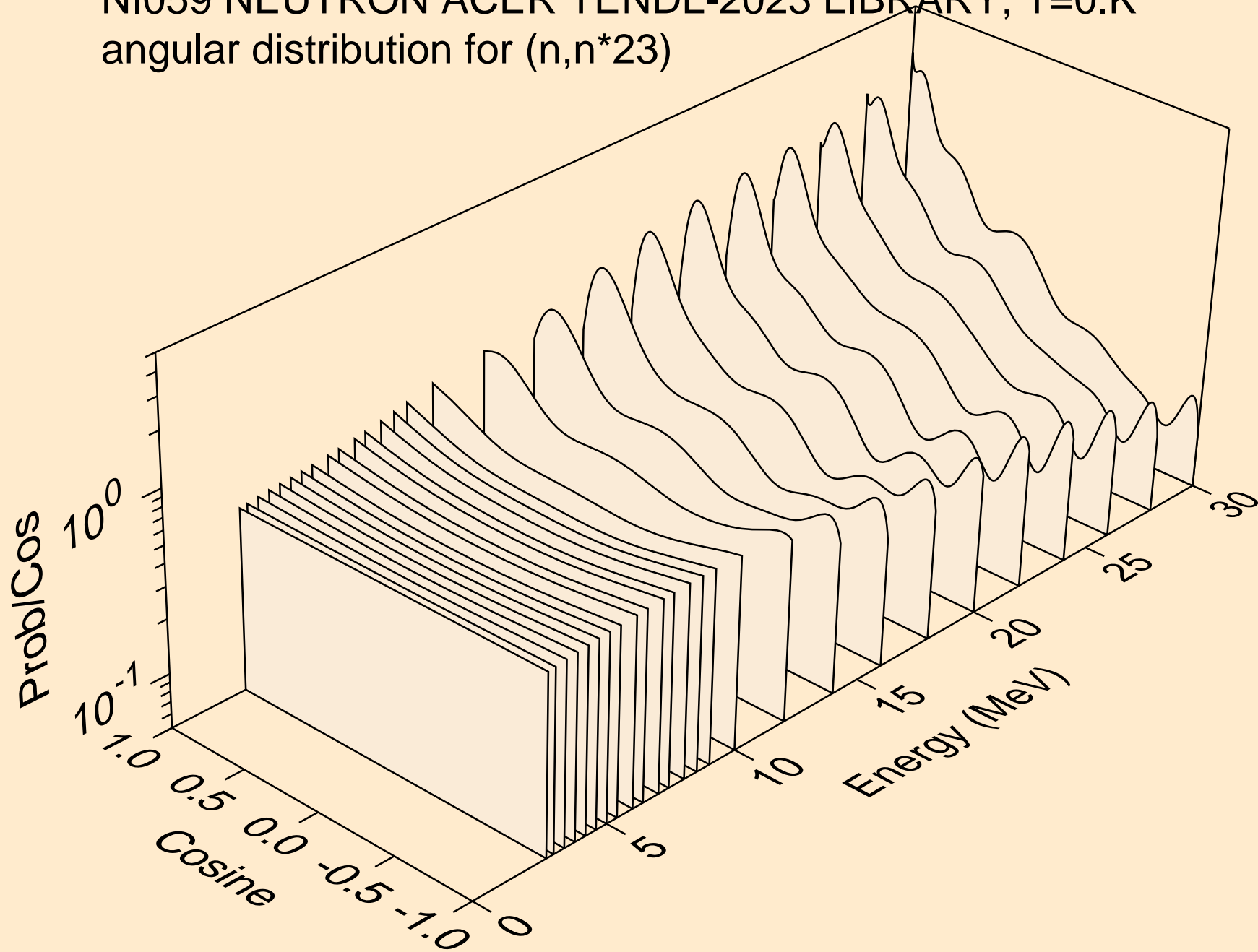
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angular distribution for (n,n\*21)



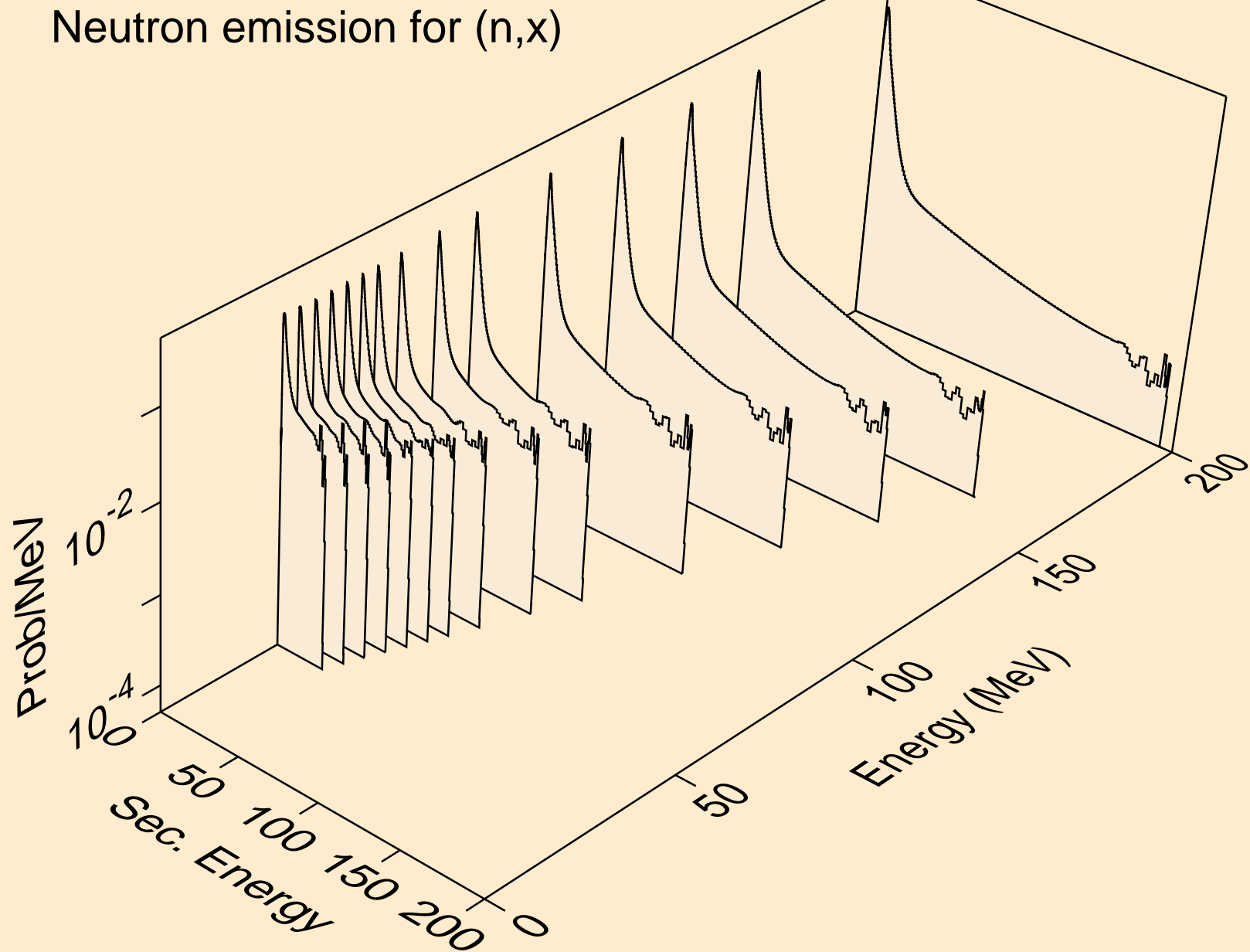
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angular distribution for (n,n\*22)



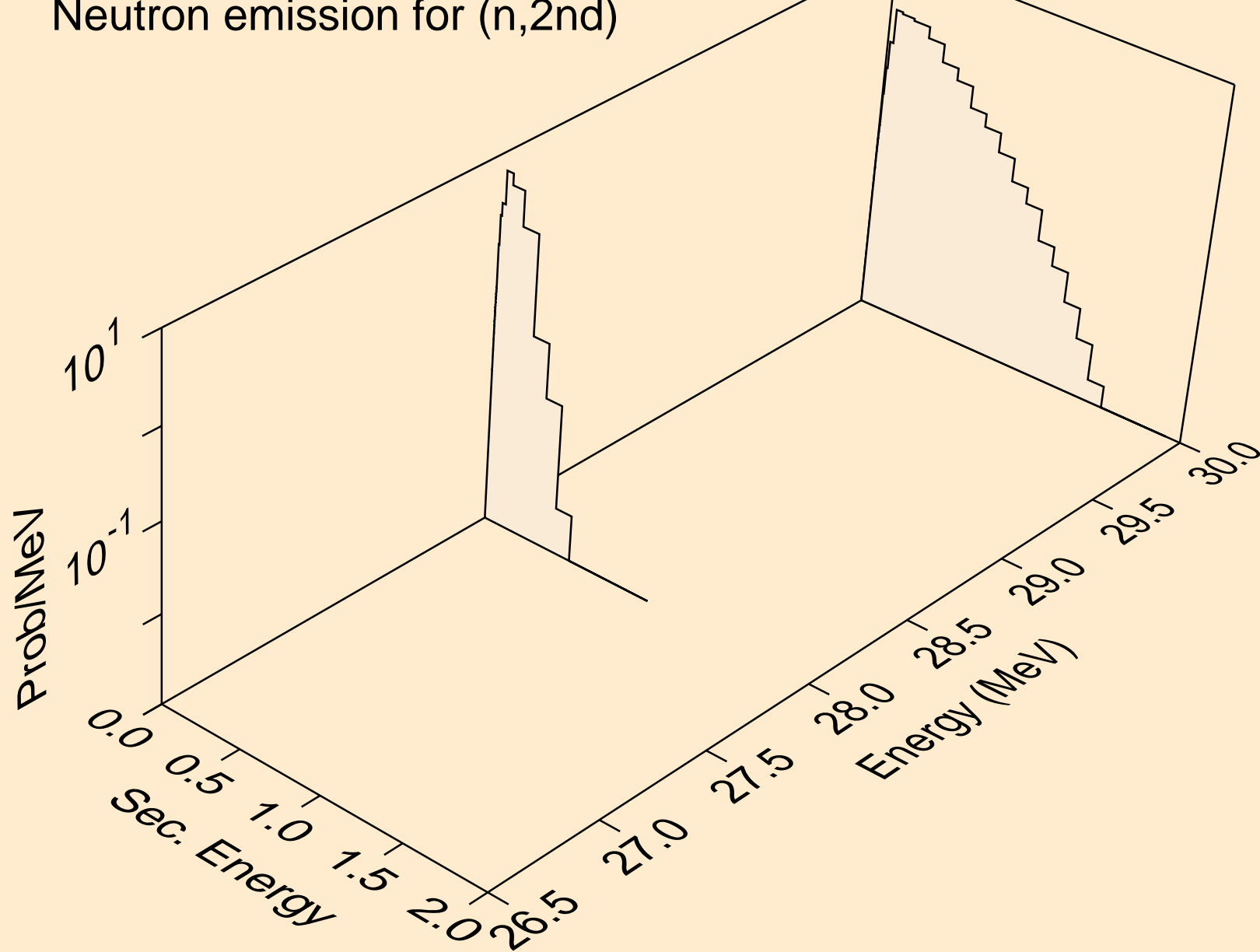
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angular distribution for (n,n\*23)



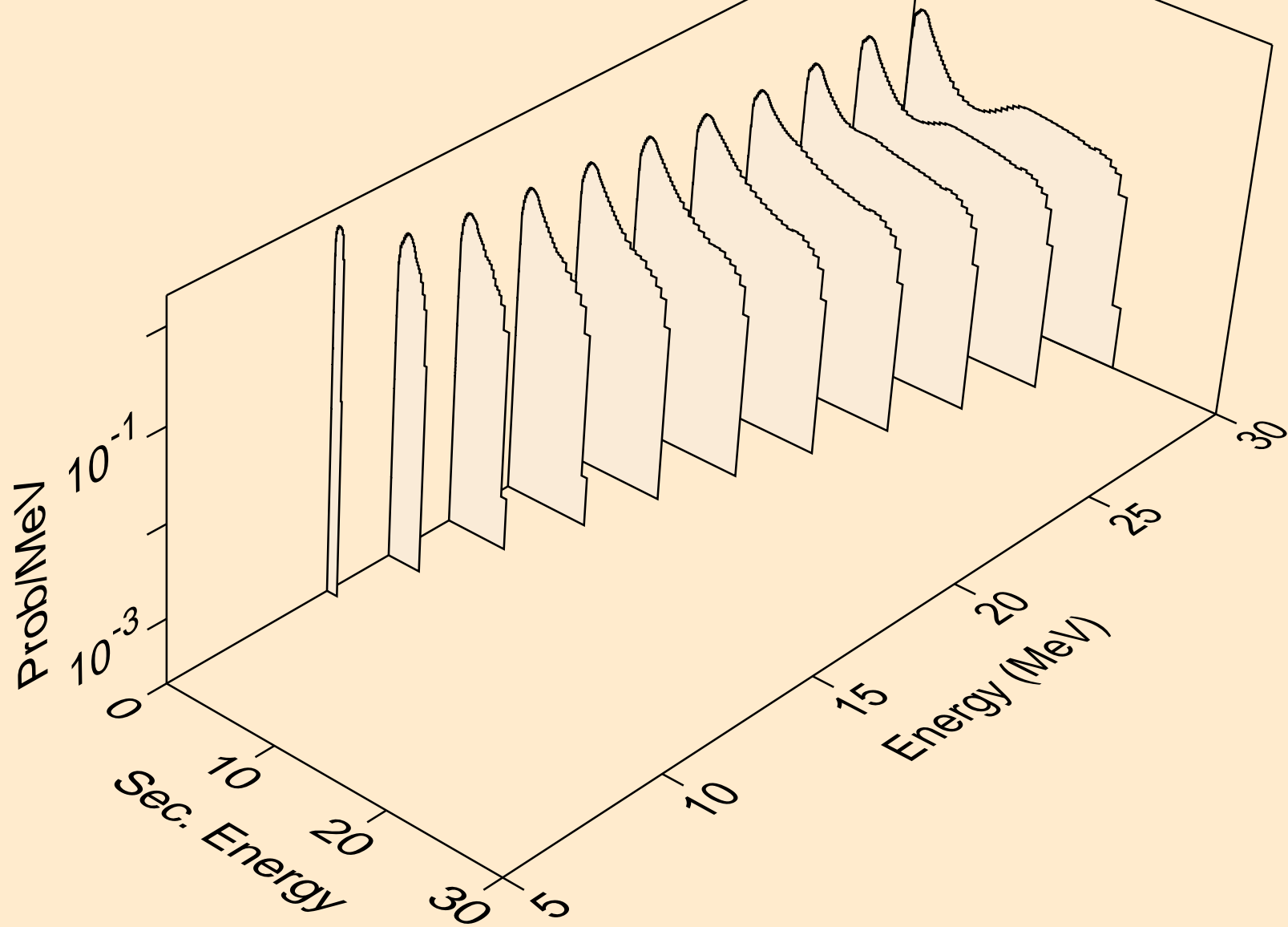
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Neutron emission for (n,x)



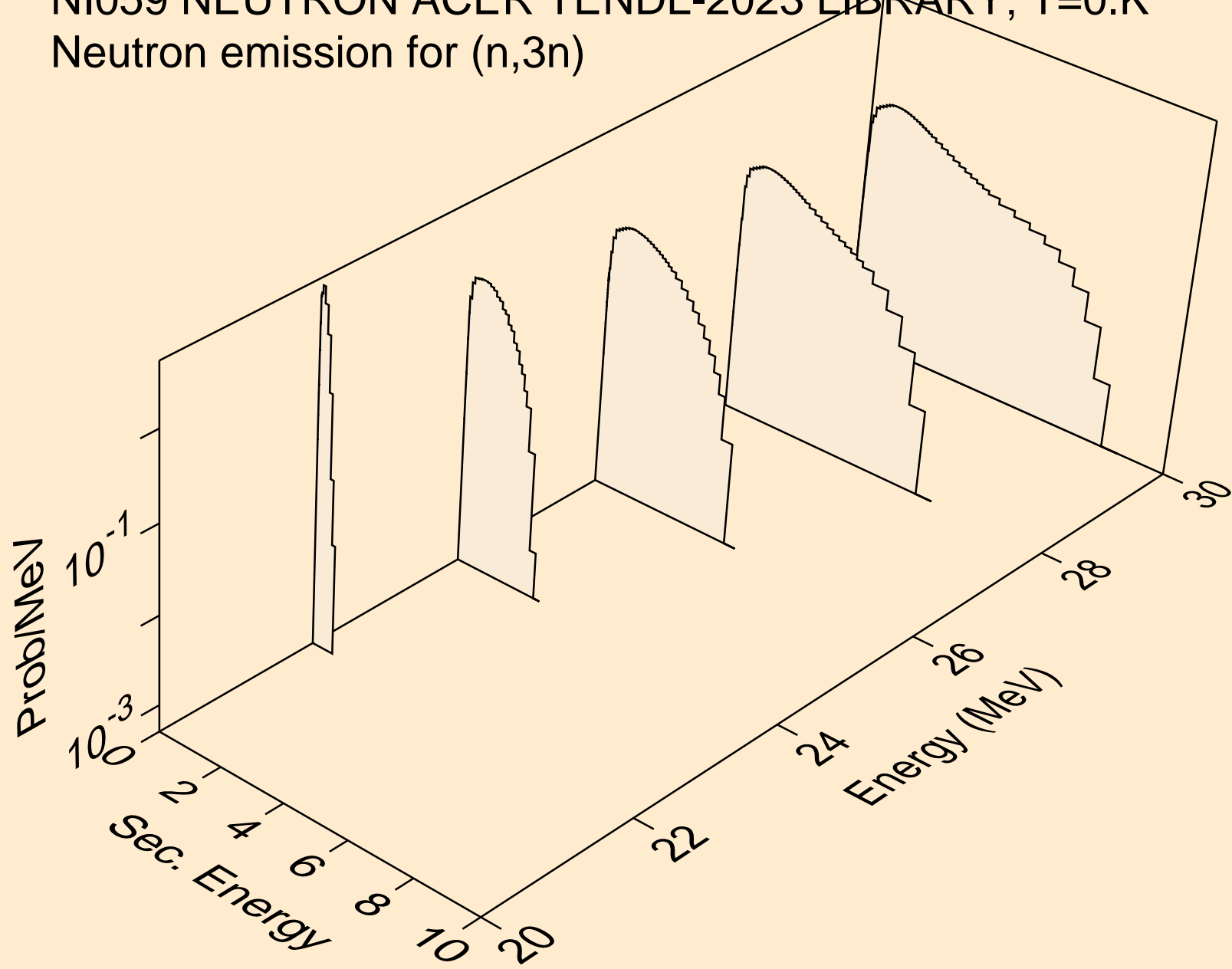
NI059 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,2nd)



NI059 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,2n)

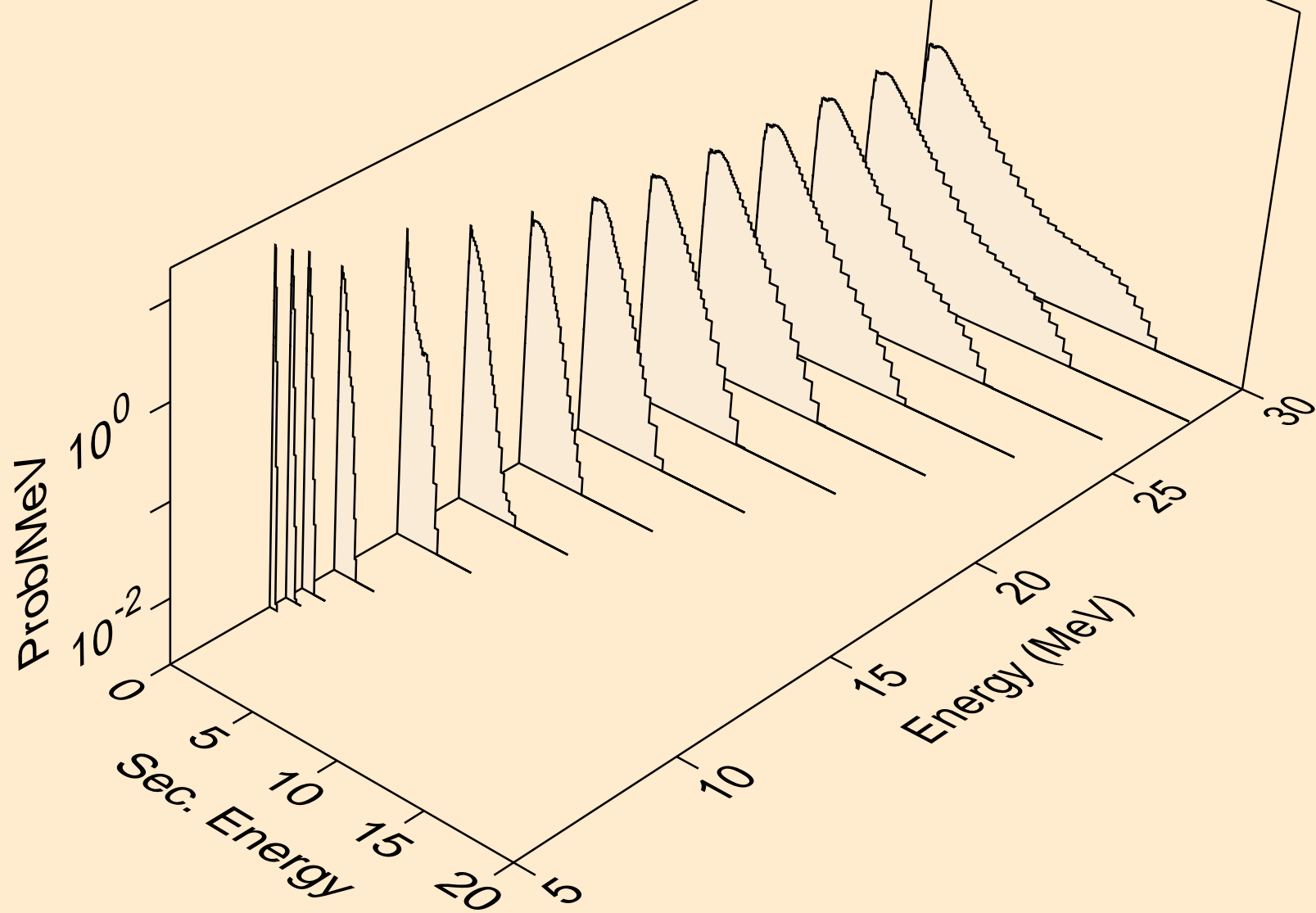


NI059 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,3n)

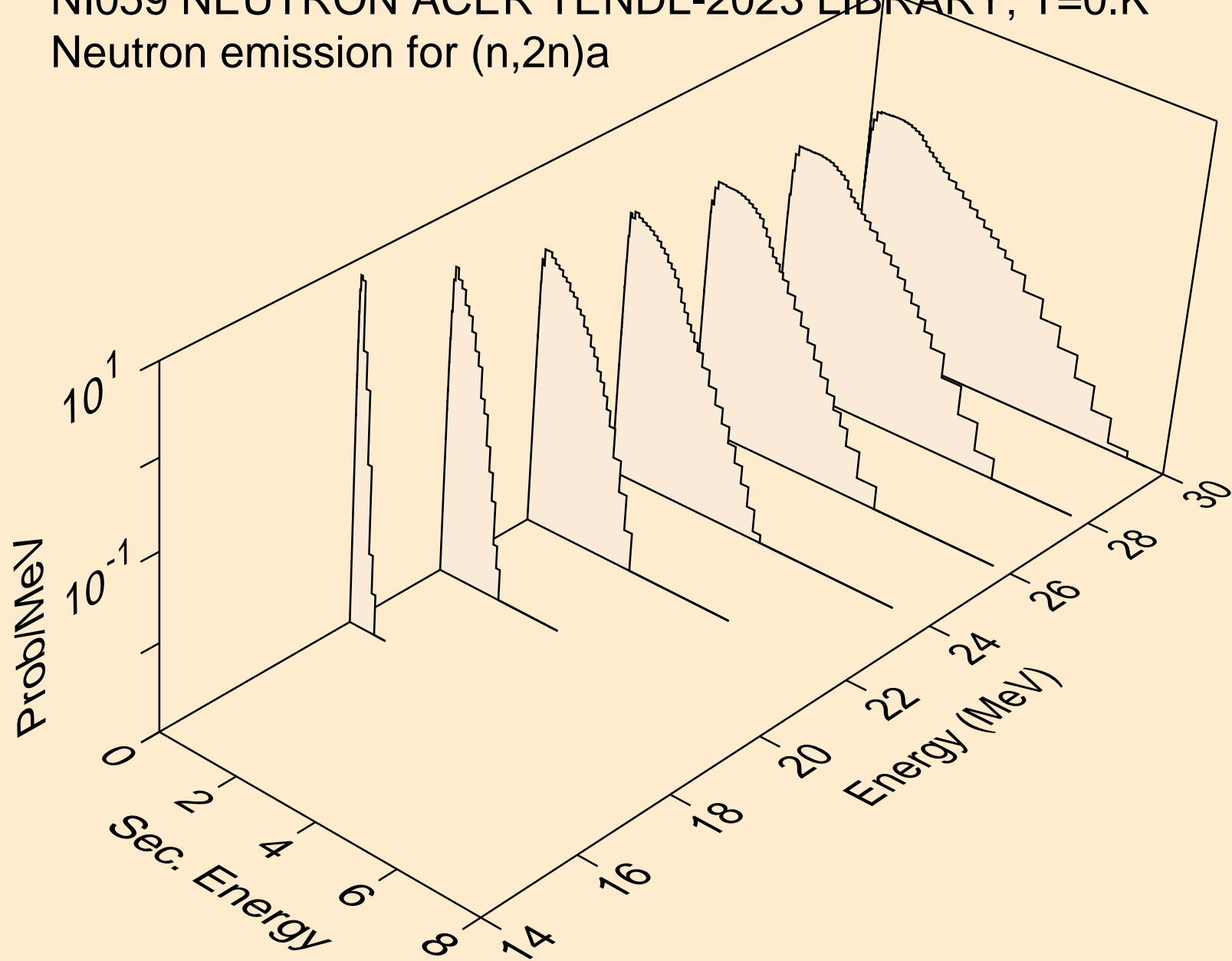




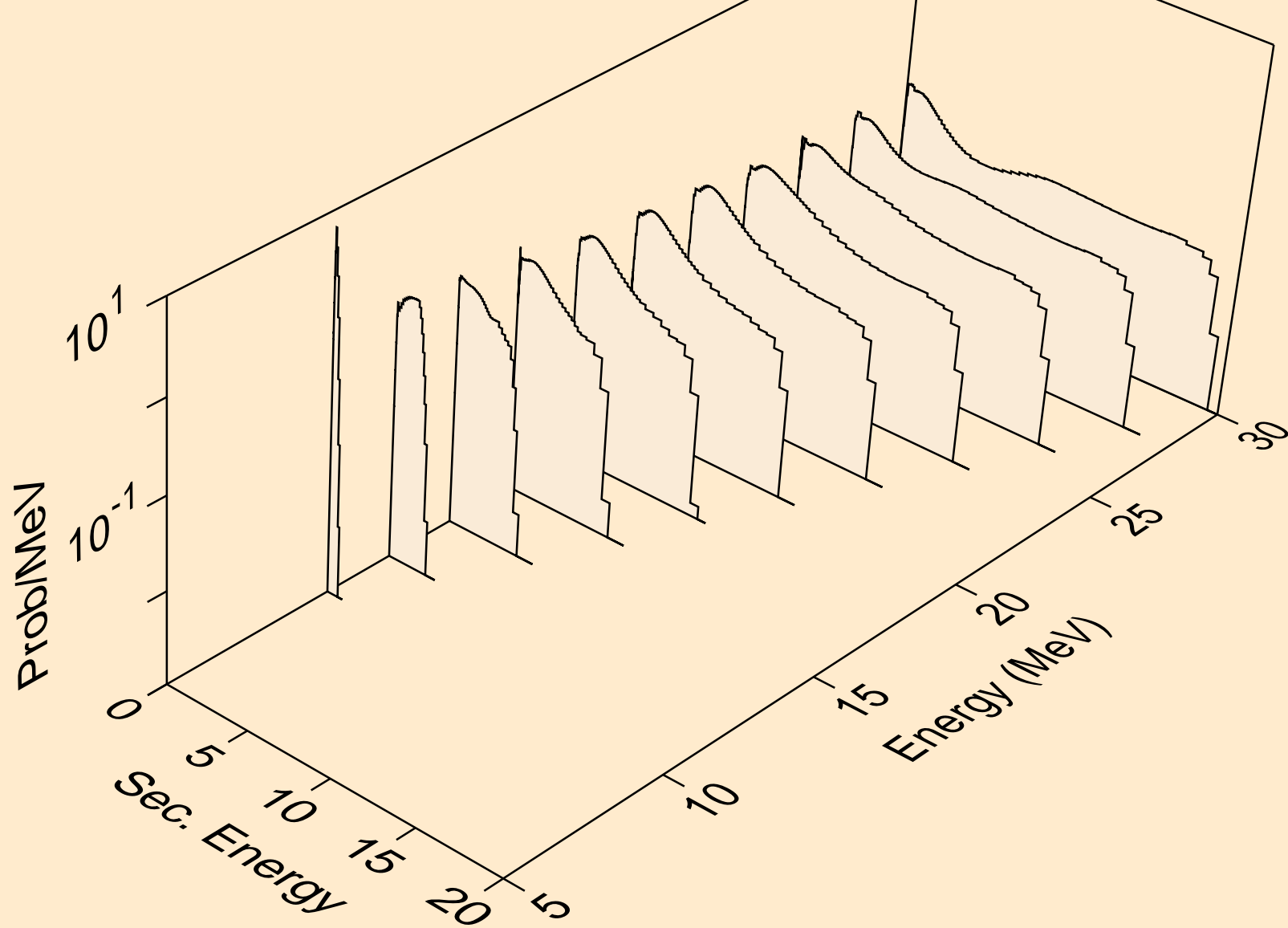
NI059 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,n\*)a



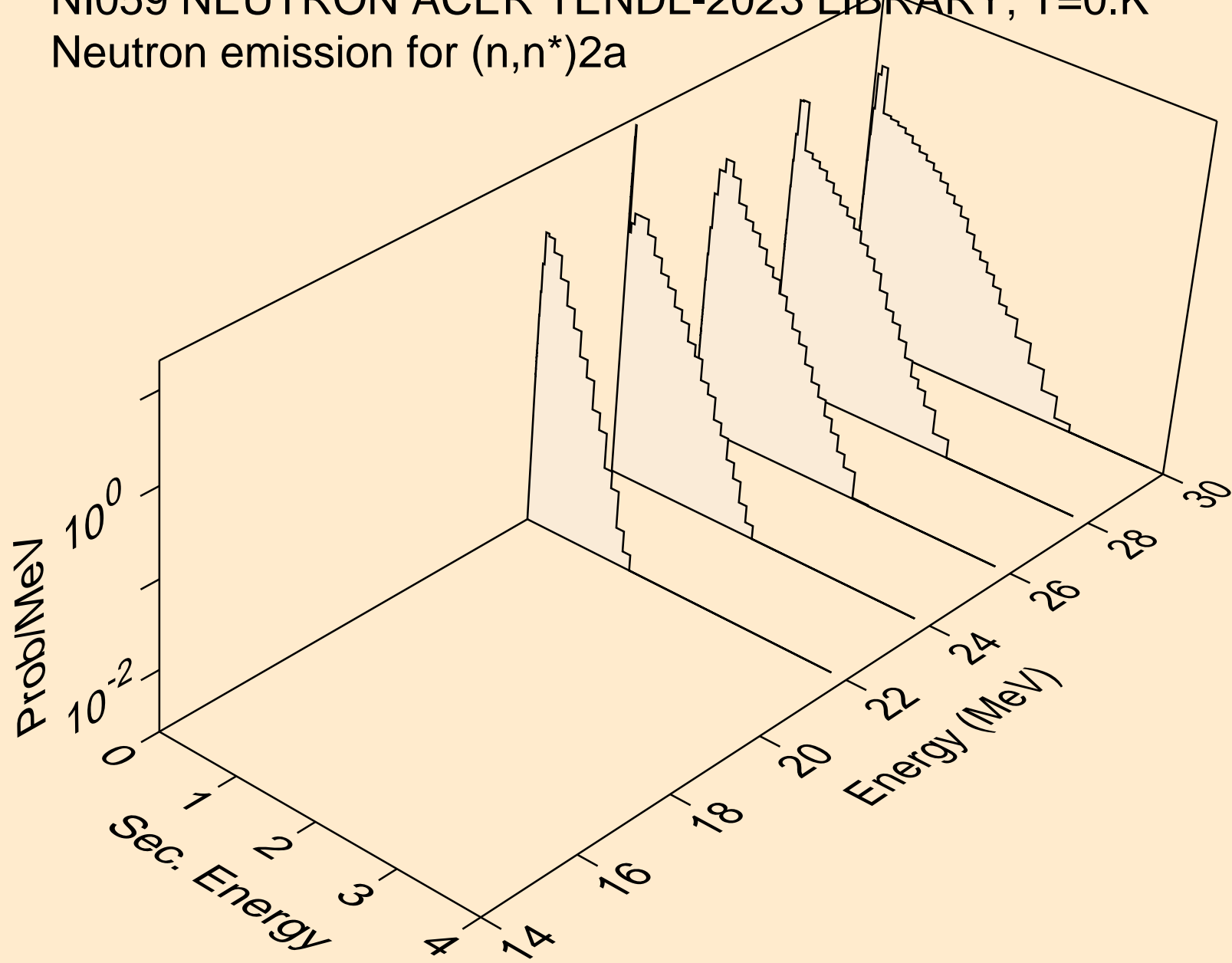
NI059 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,2n)a



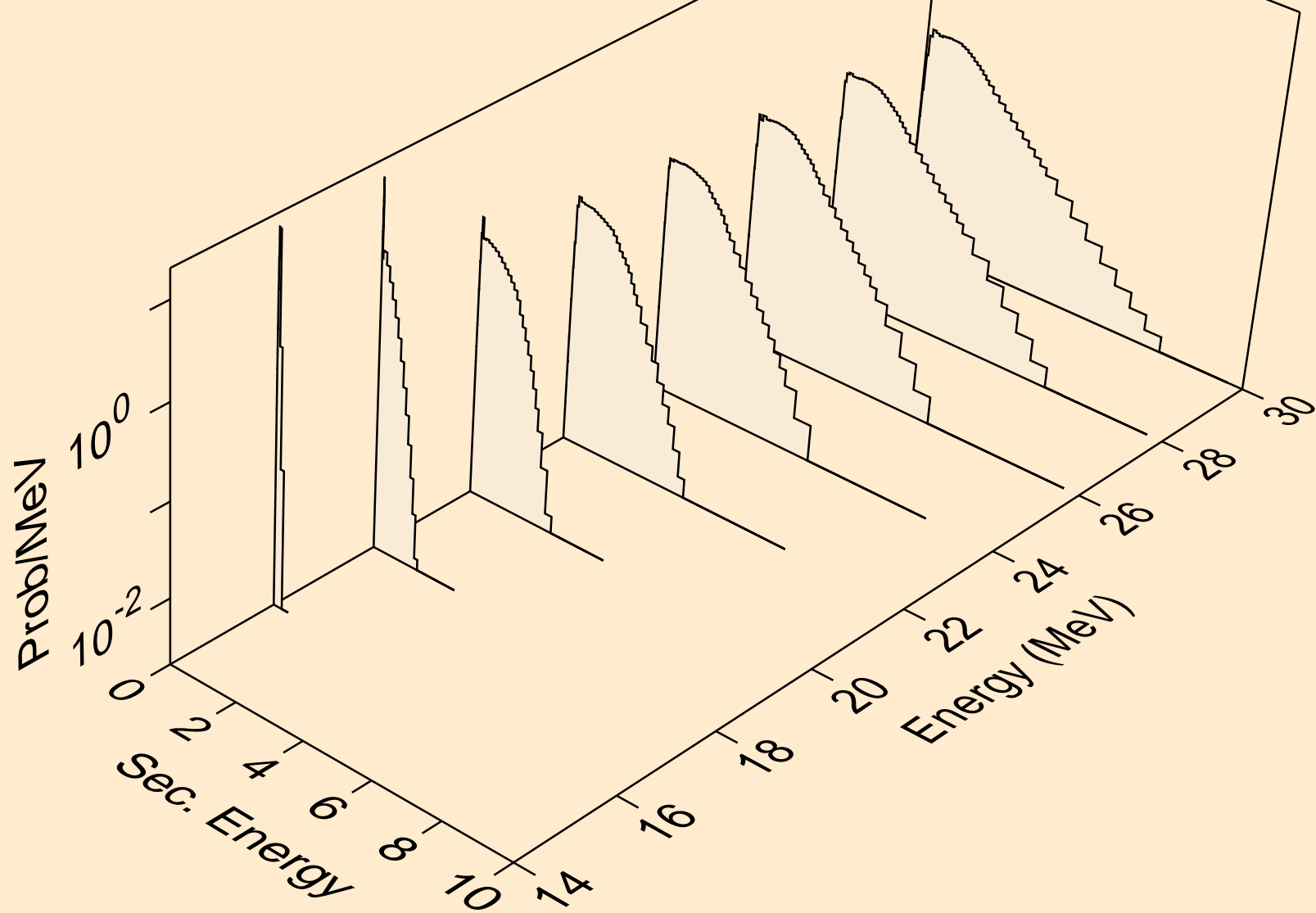
NI059 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,n\*)p



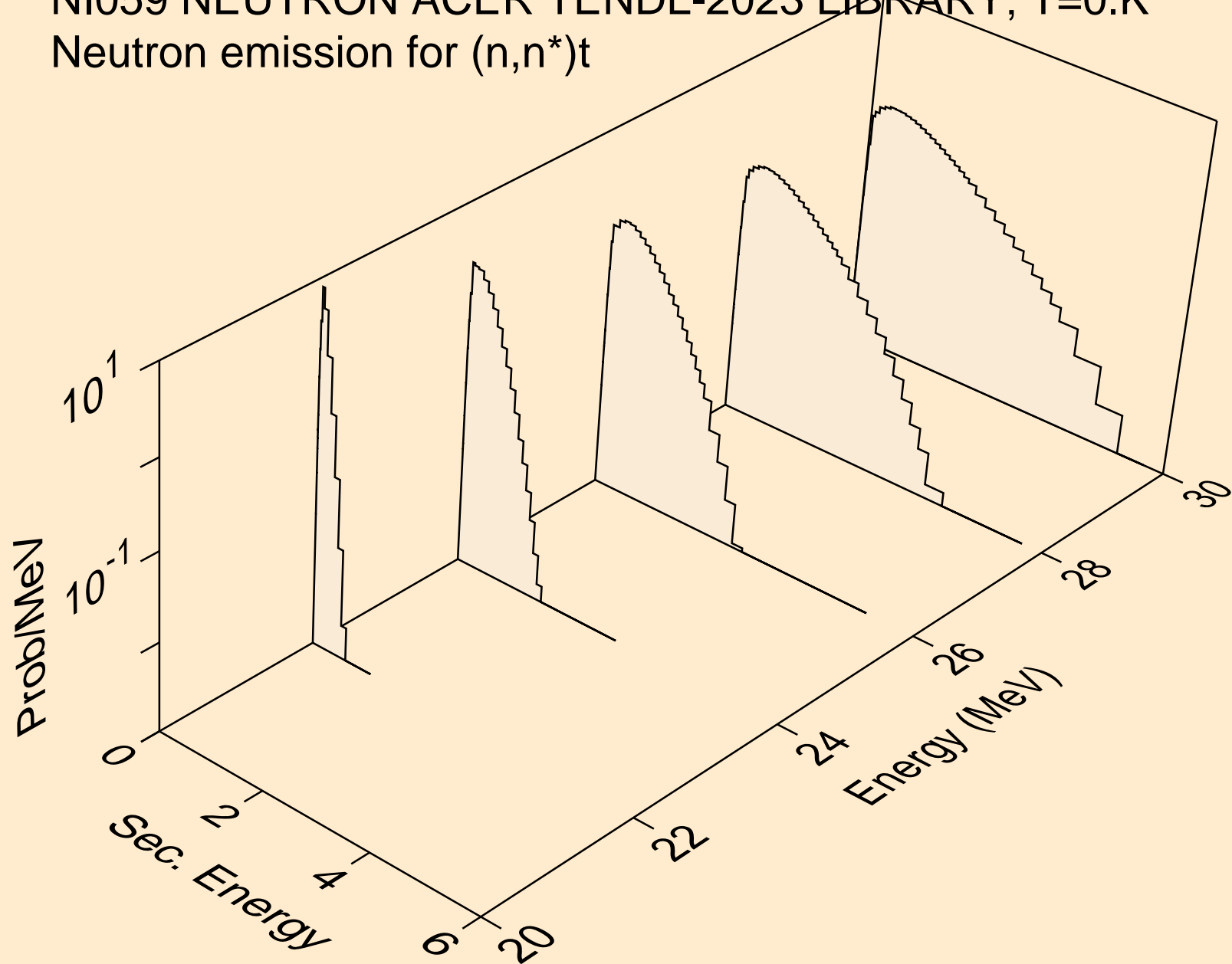
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Neutron emission for (n,n\*)2a



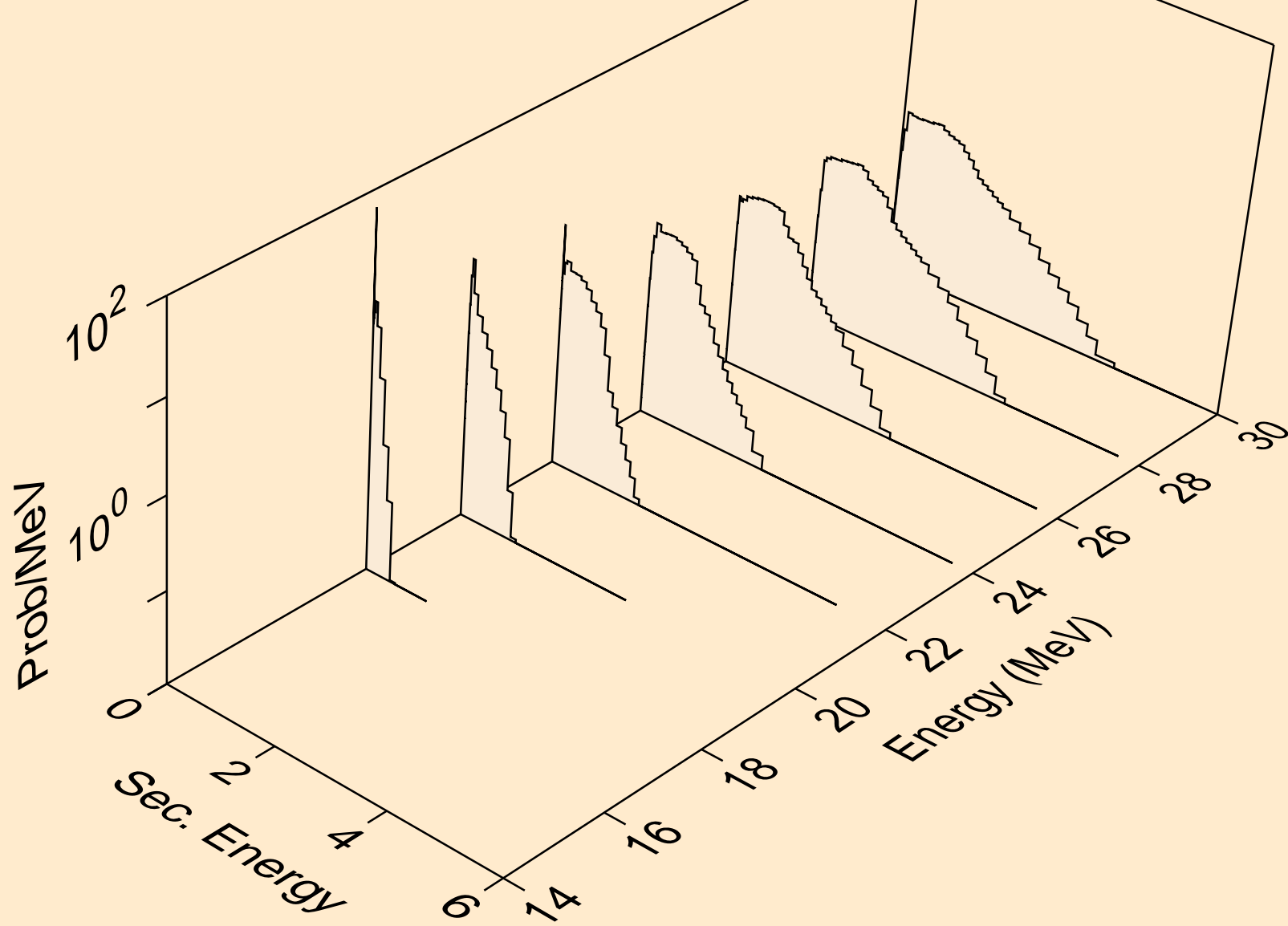
NI059 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,n\*)d



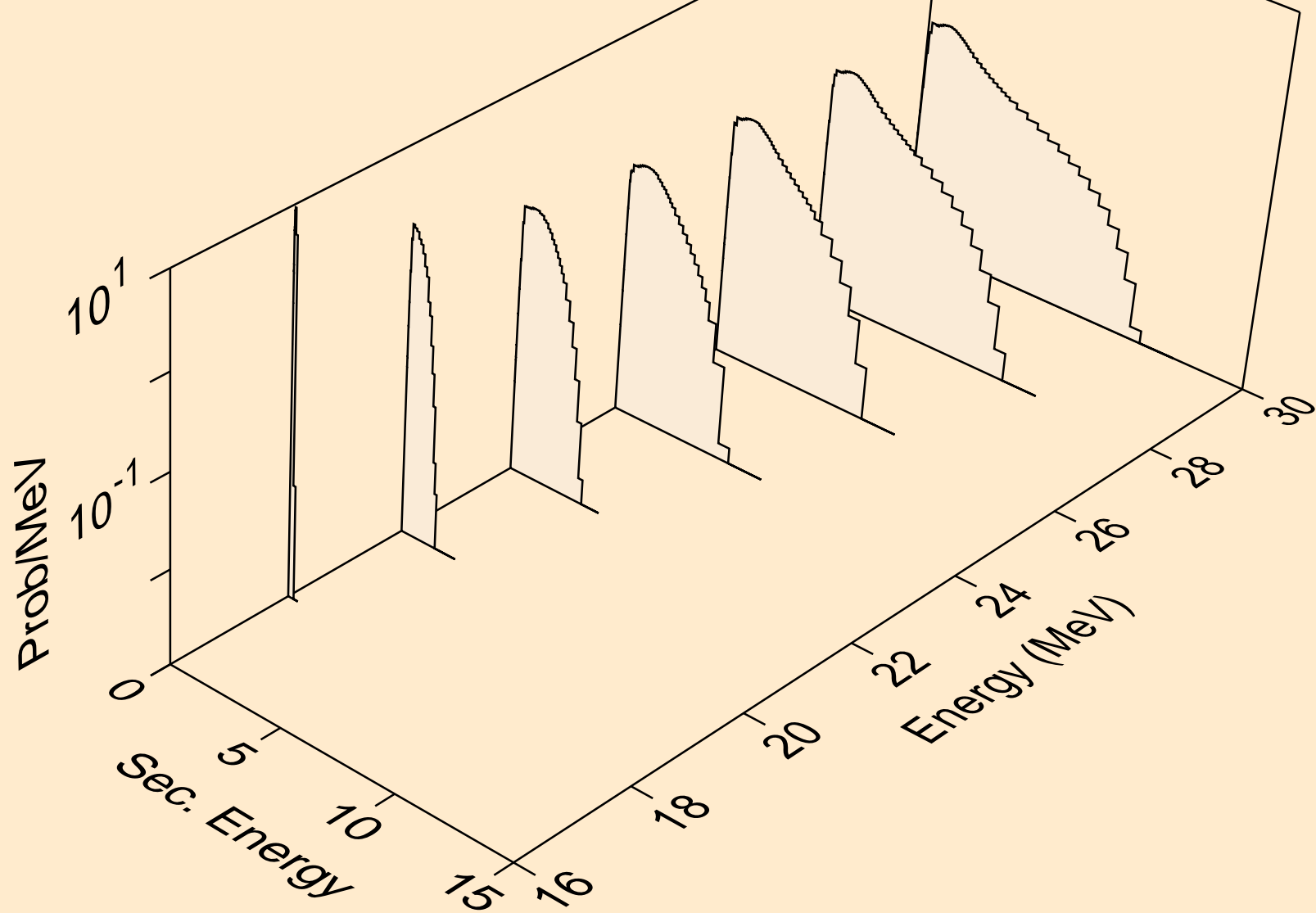
NI059 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,n\*)t



NI059 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,n\*)he3

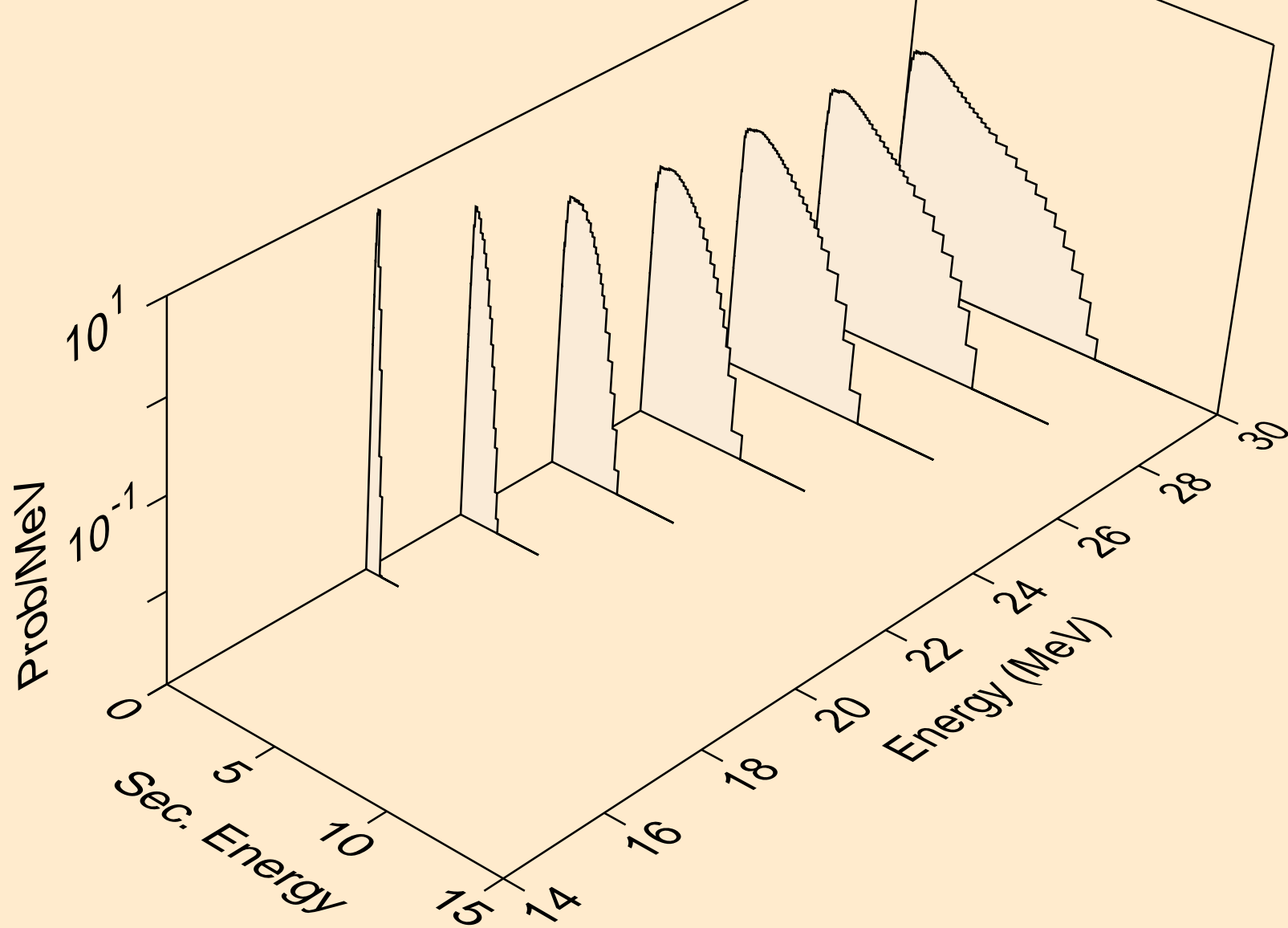


NI059 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,2np)

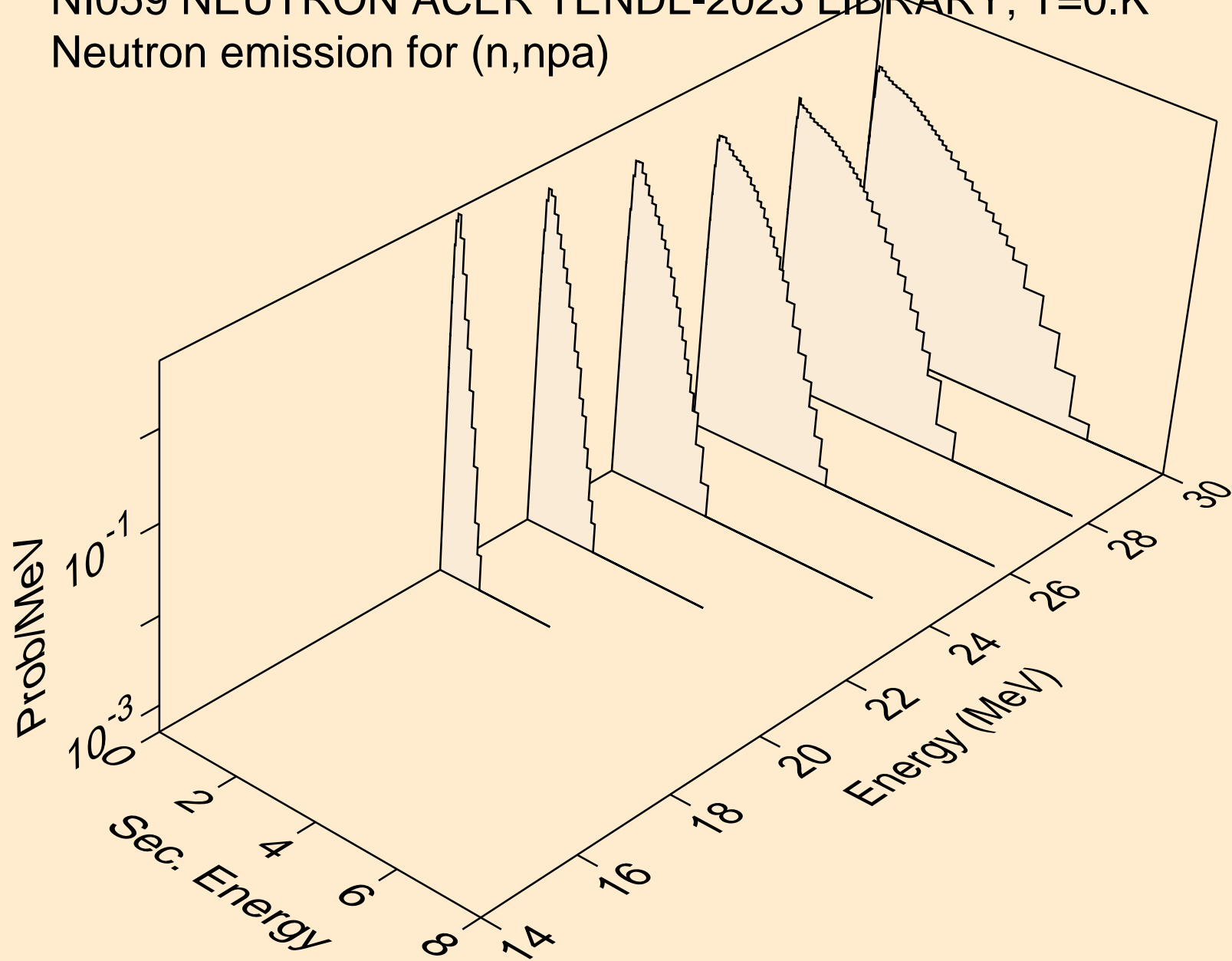




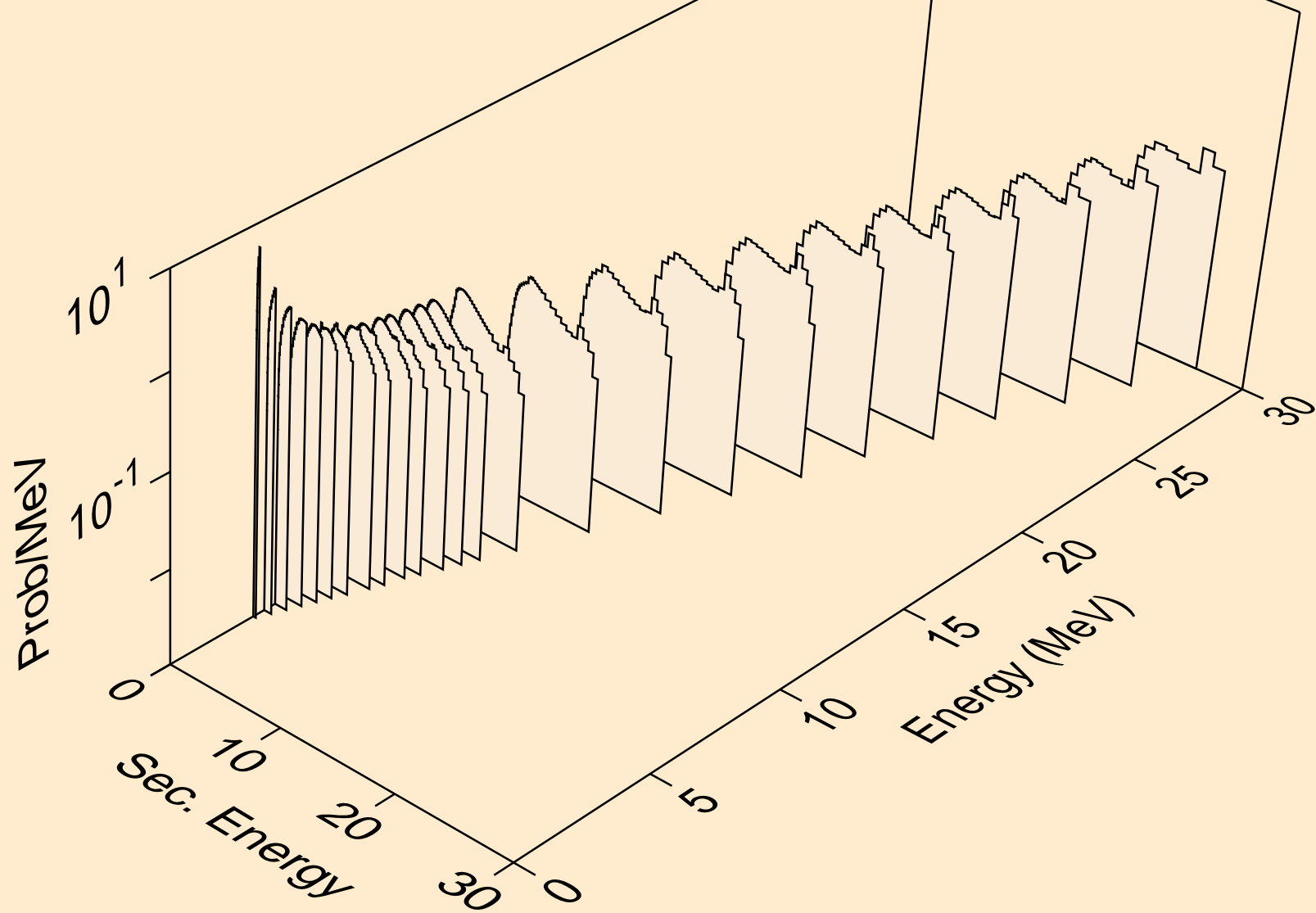
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Neutron emission for (n,n2p)



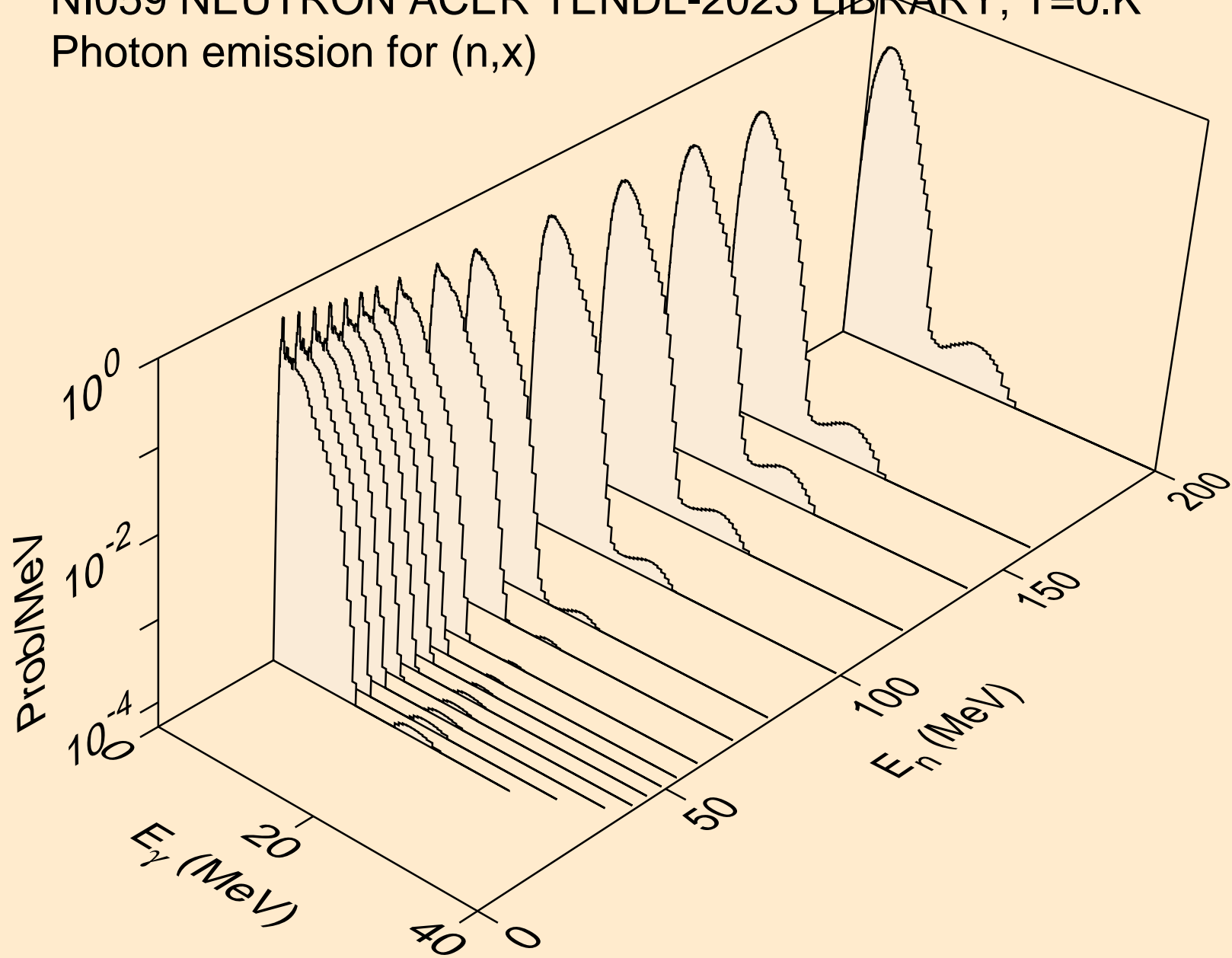
NI059 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,npa)



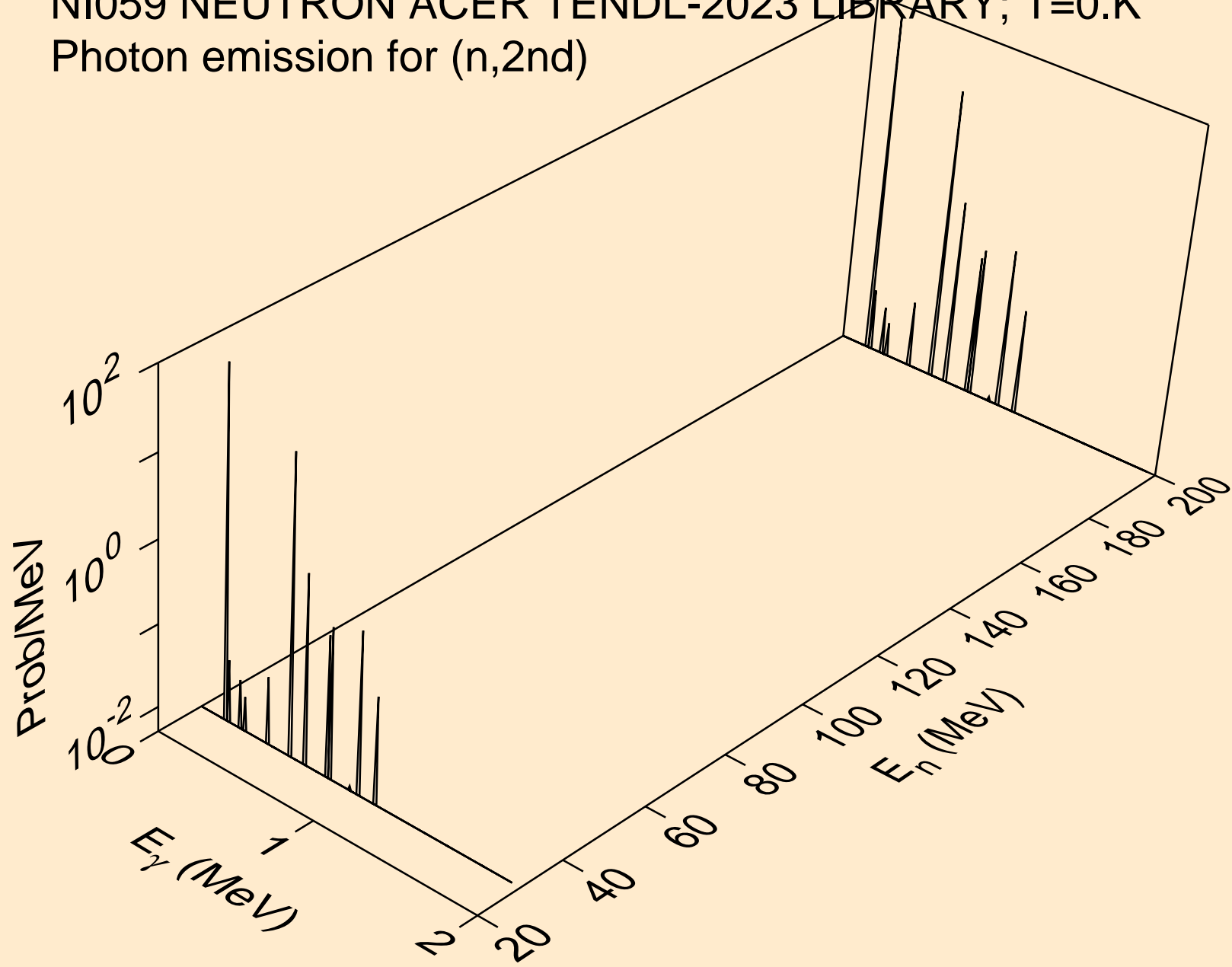
NI059 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,n\*c)



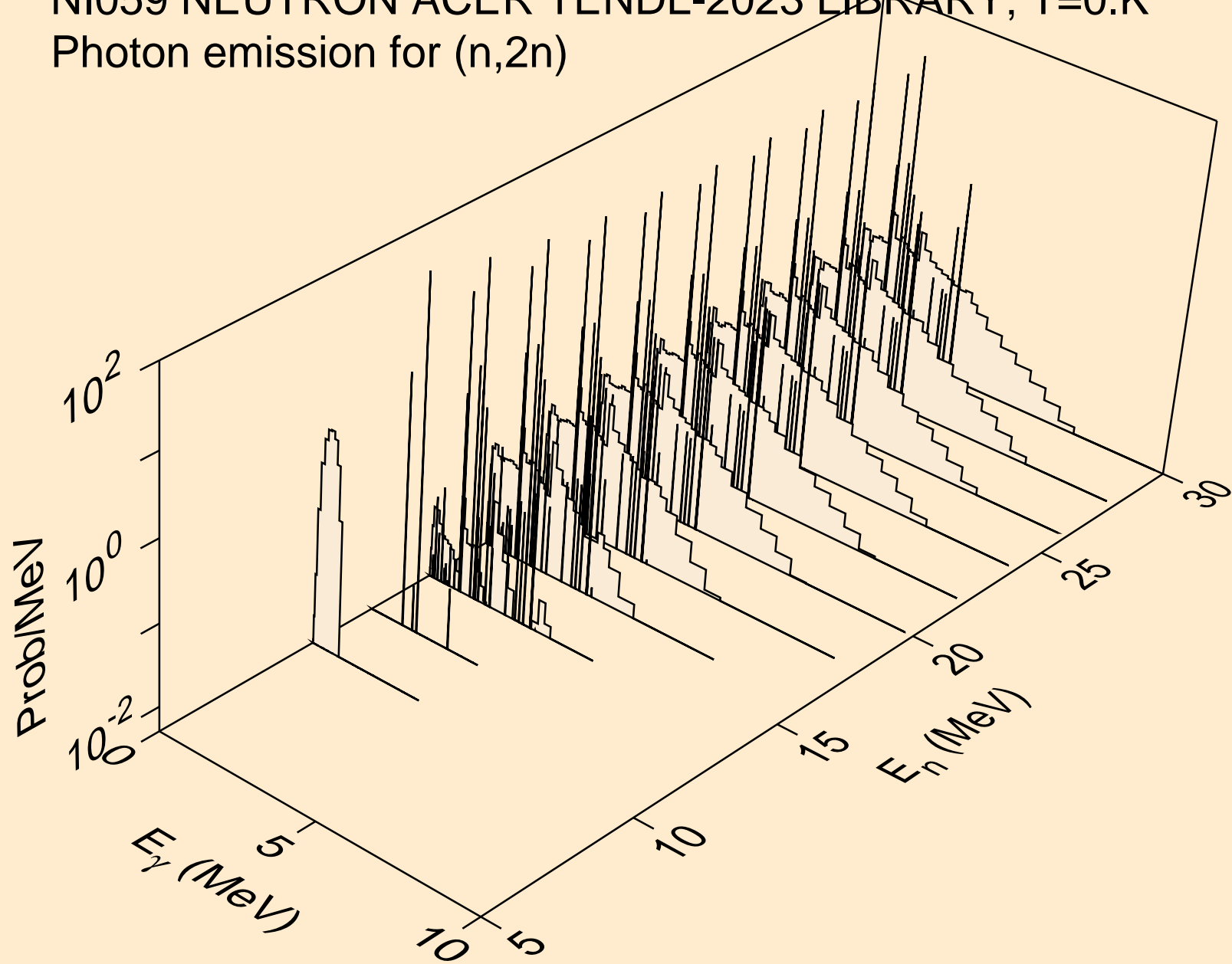
NI059 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,x)



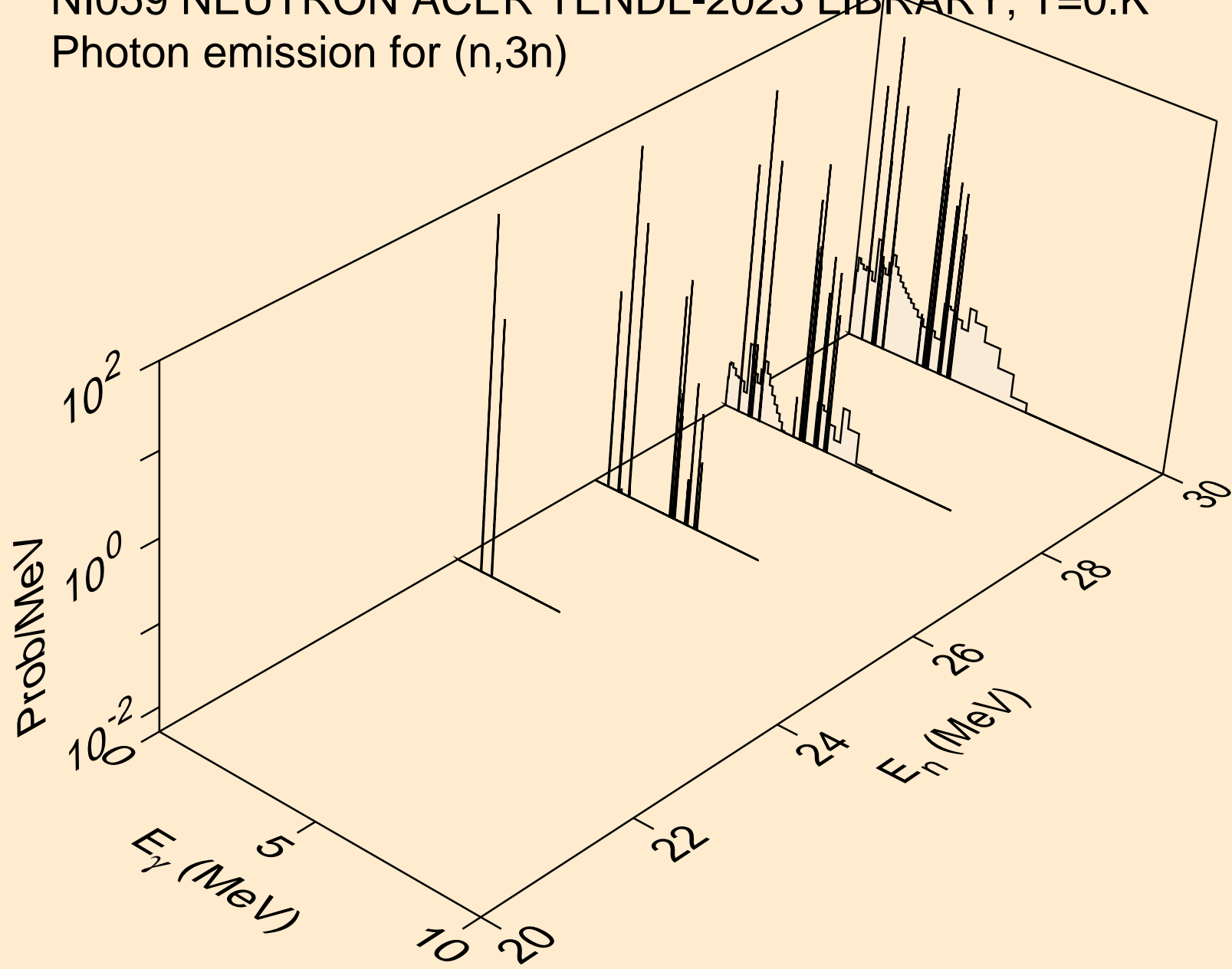
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Photon emission for (n,2nd)



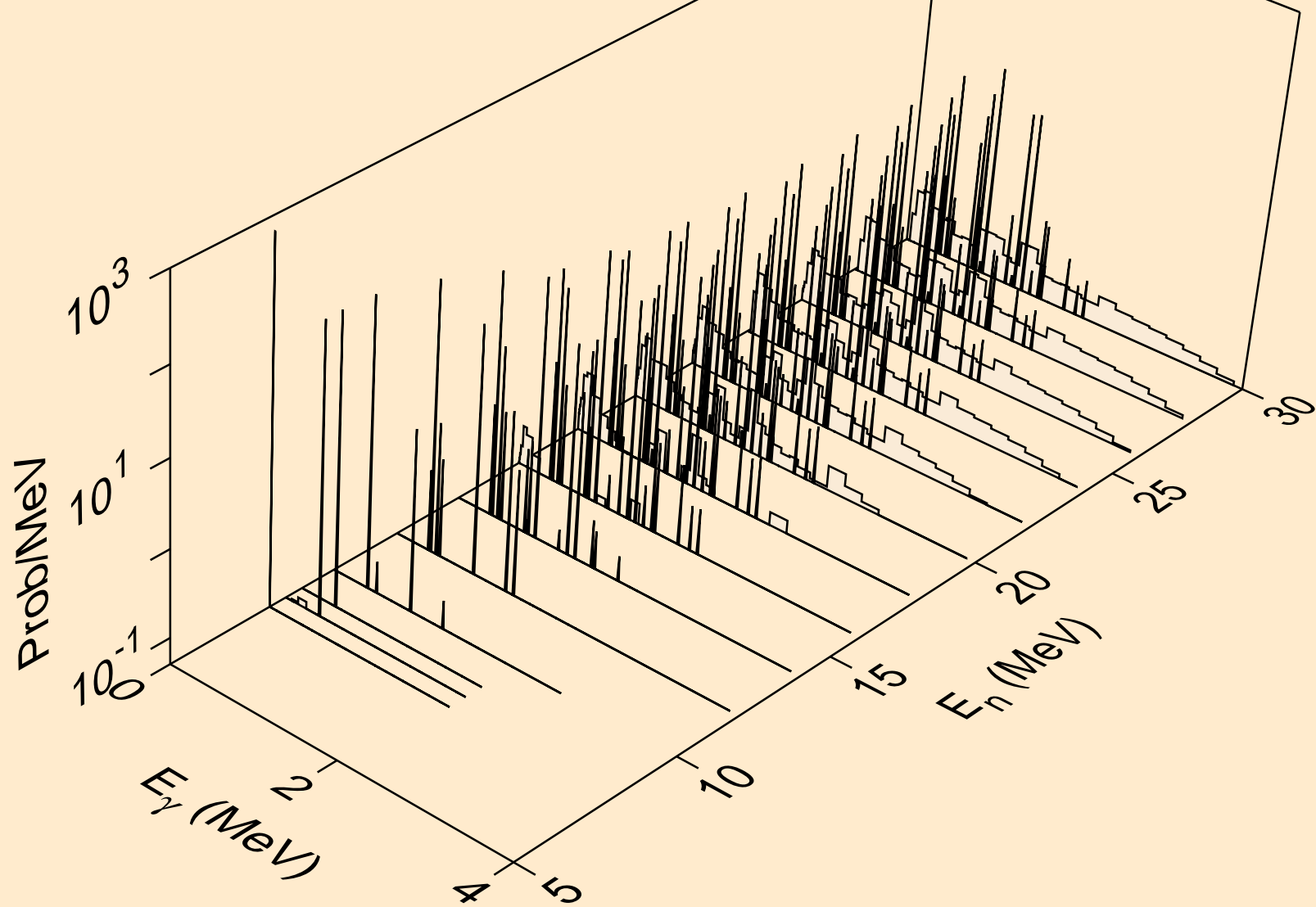
NI059 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2n)



NI059 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,3n)

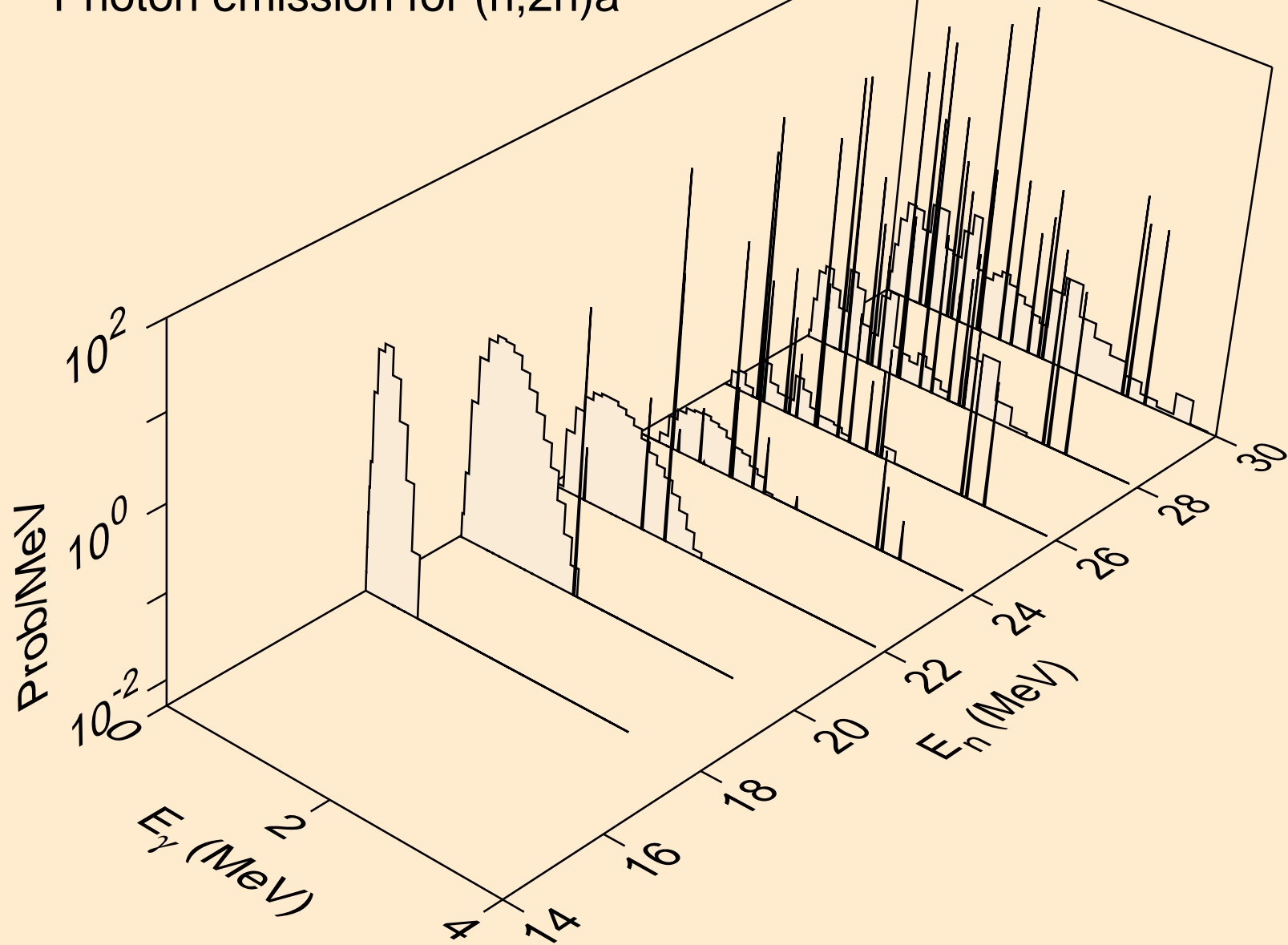


NI059 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)a

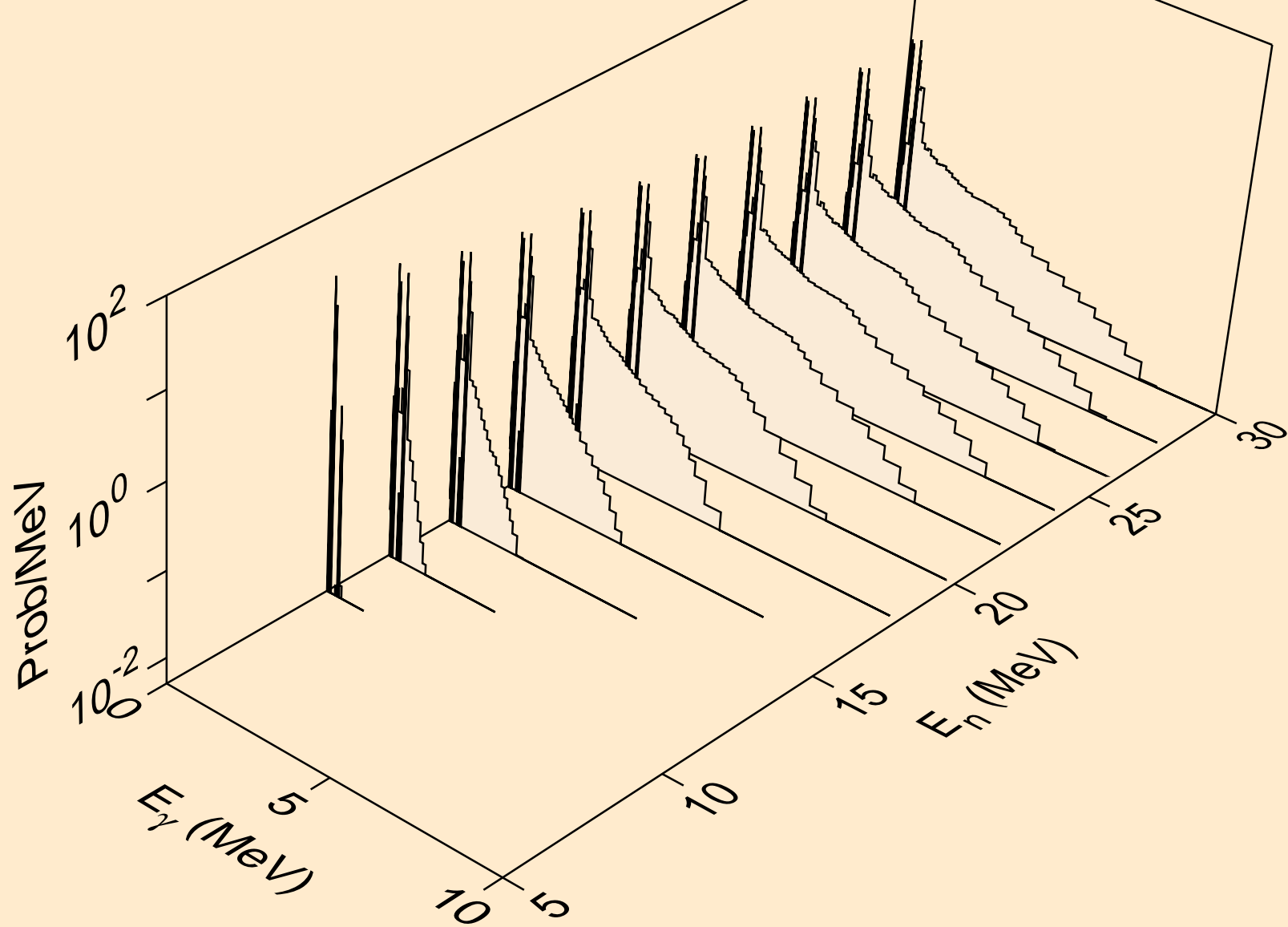




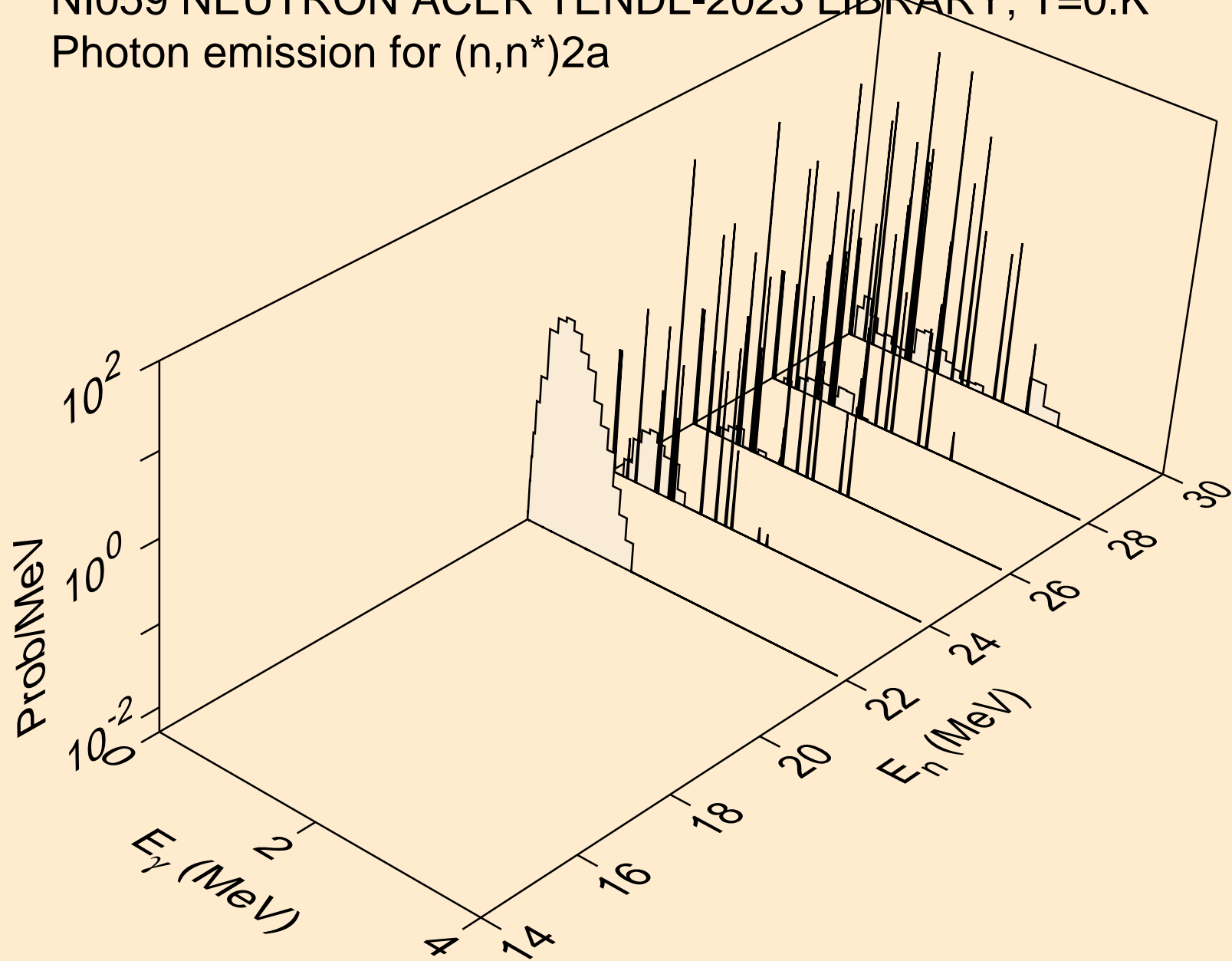
NI059 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2n)a



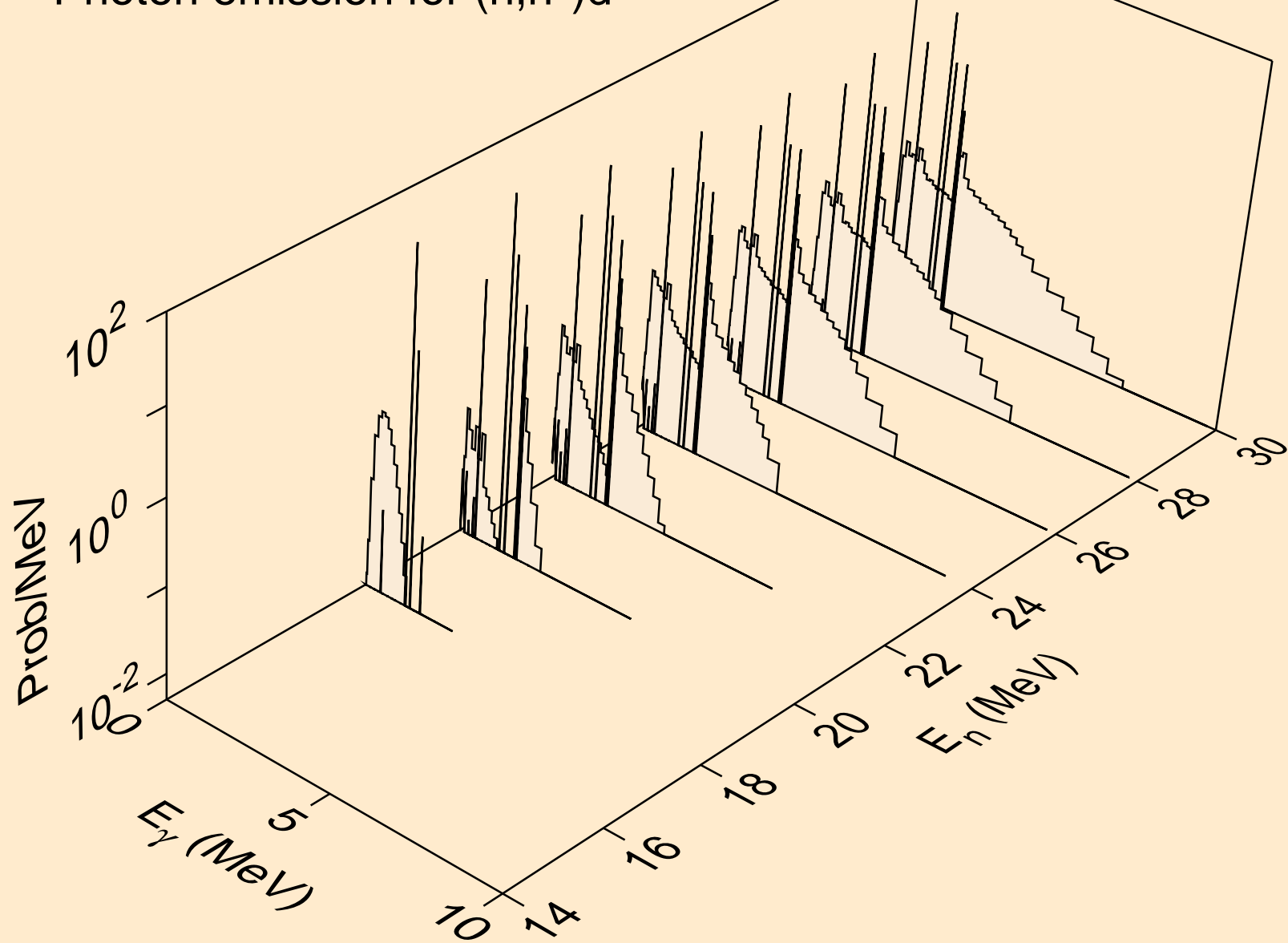
NI059 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)p



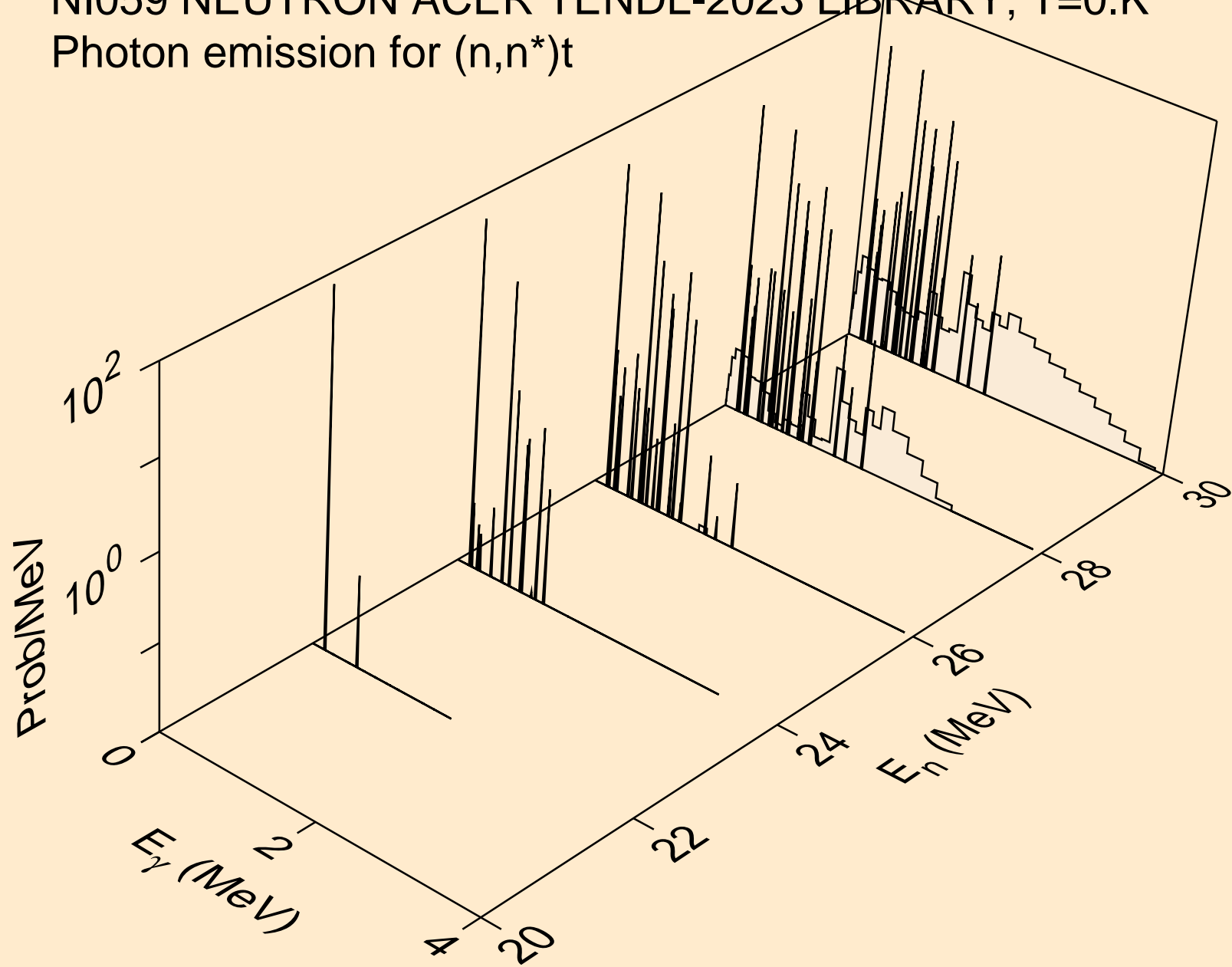
NI059 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)2a



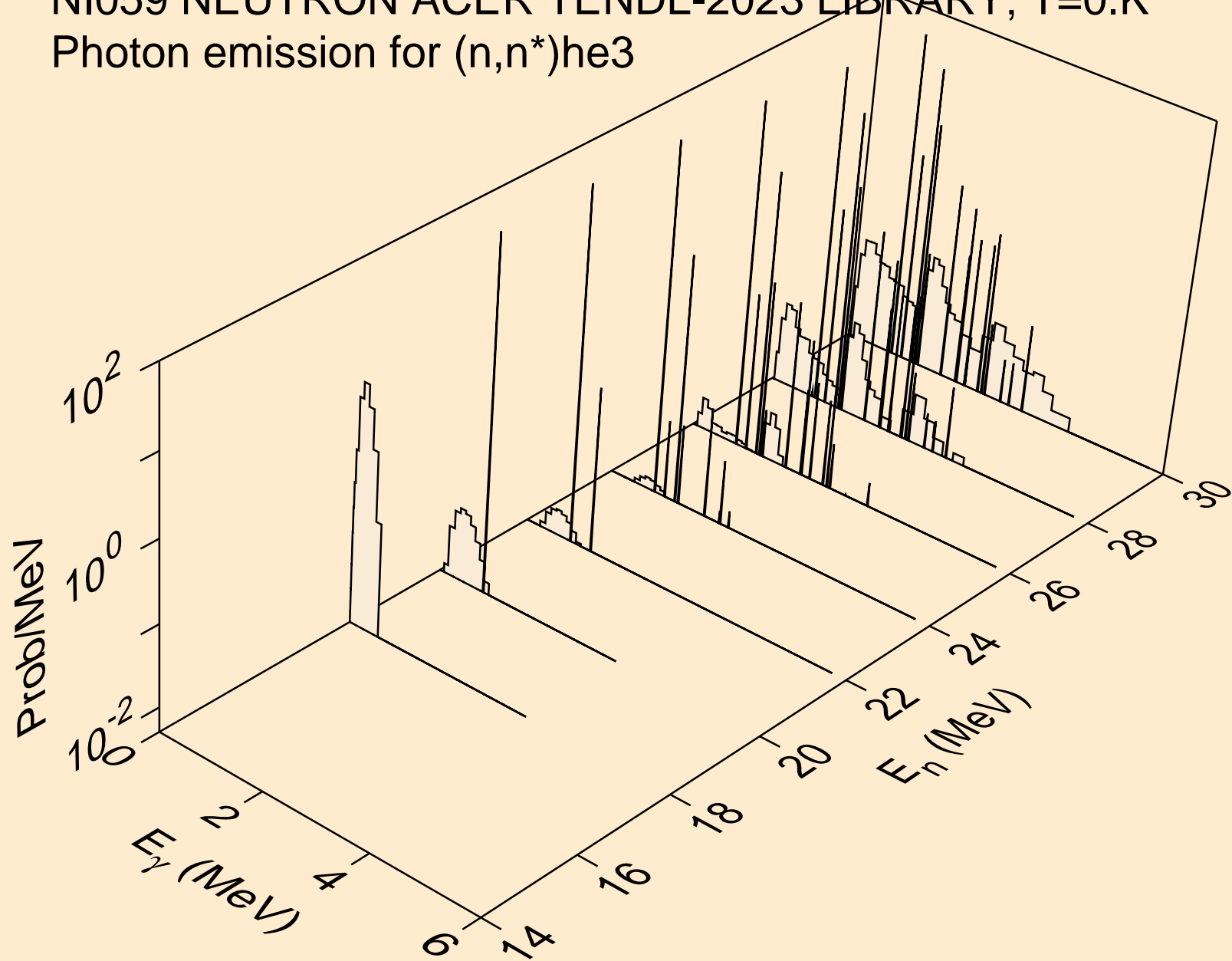
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Photon emission for (n,n\*)d



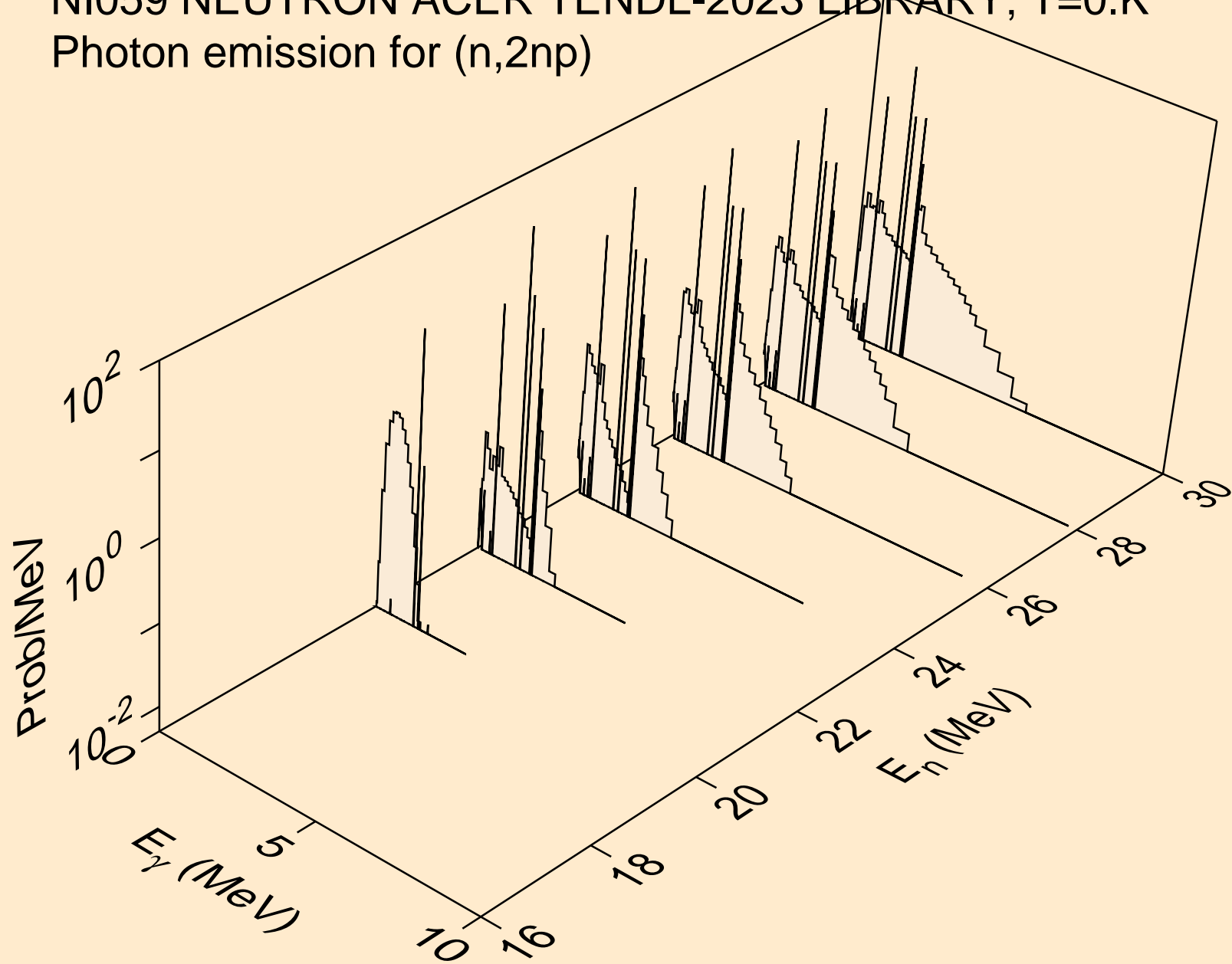
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Photon emission for (n,n\*)t



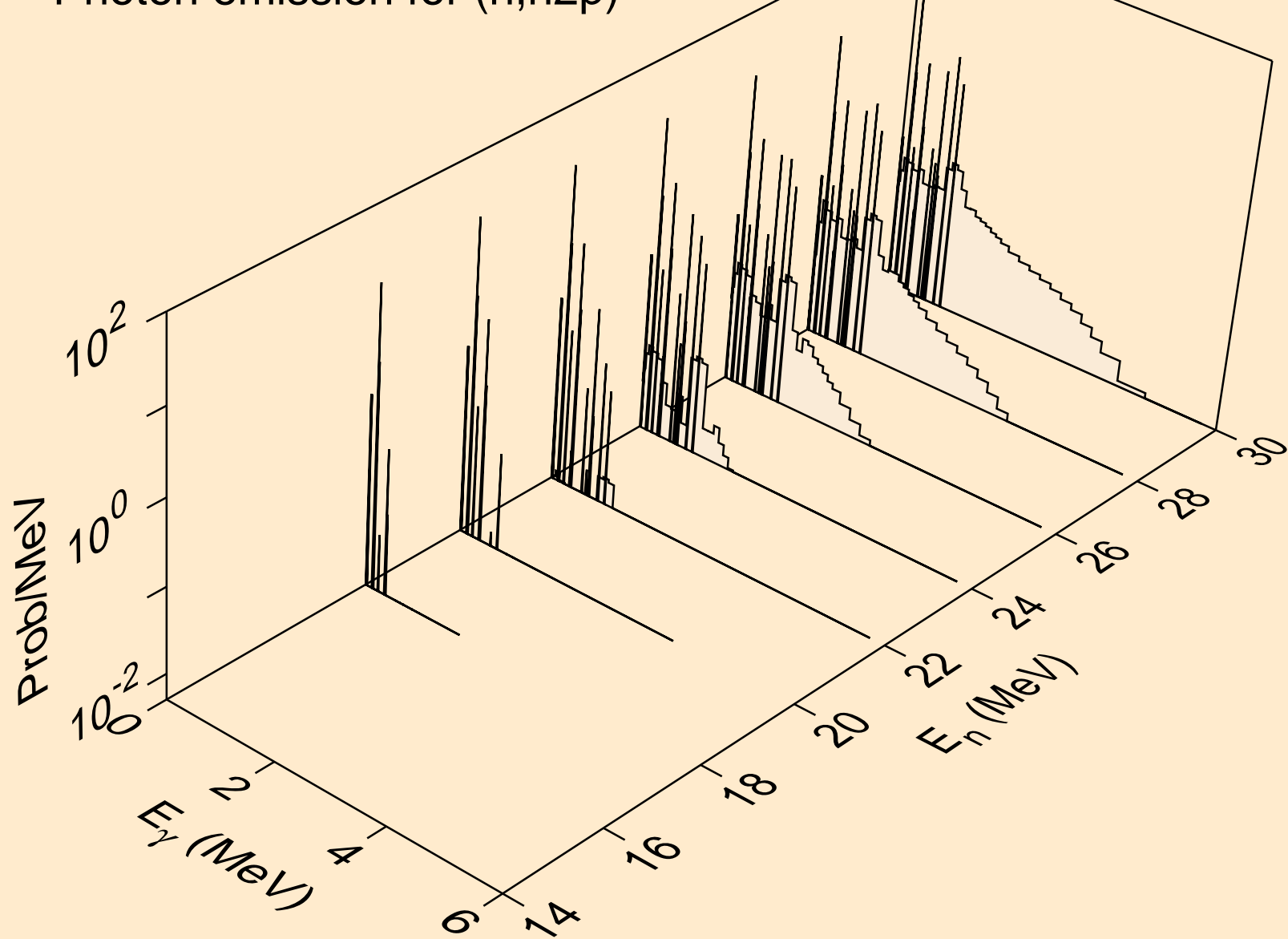
NI059 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)he3



NI059 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2np)

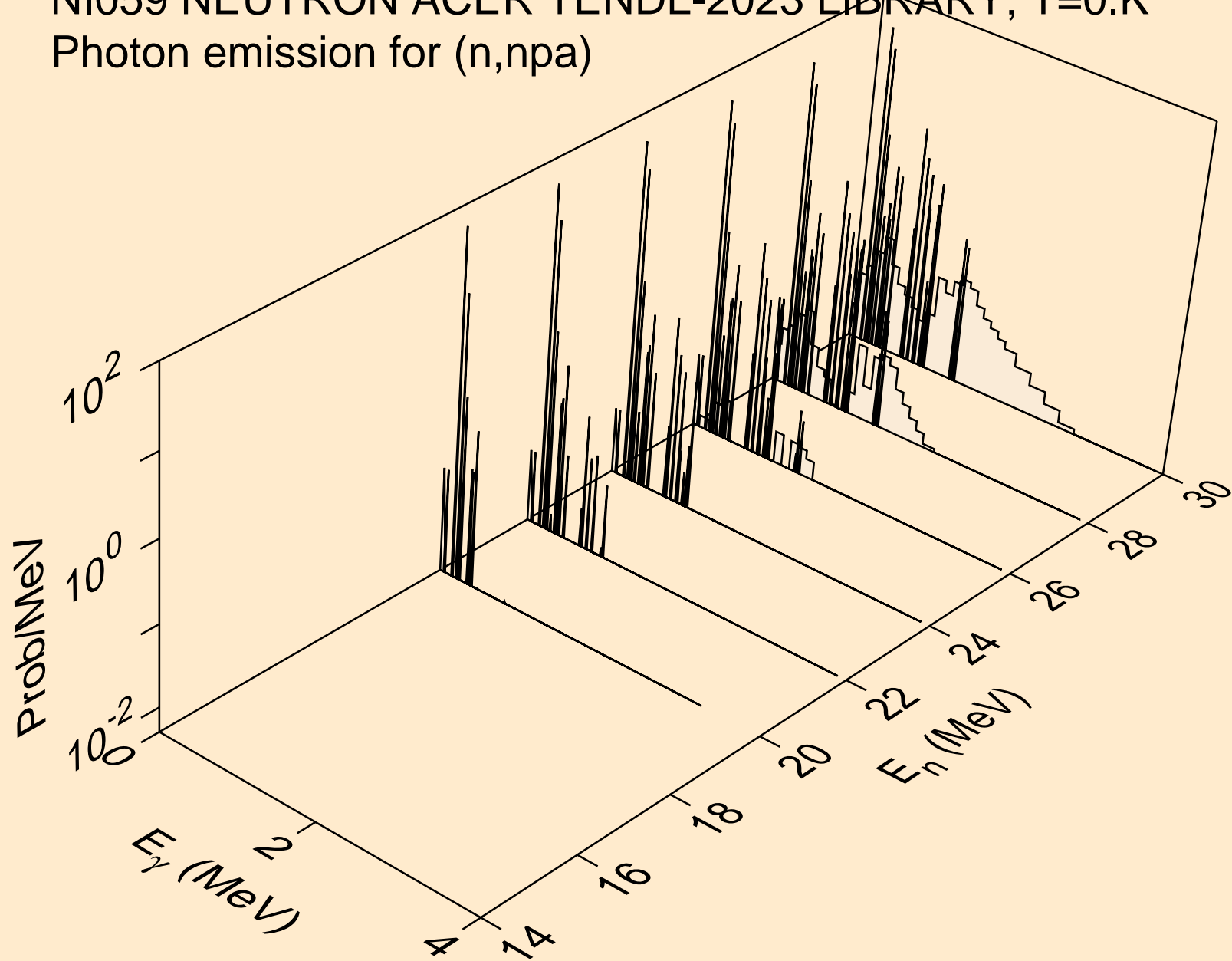


NI059 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n2p)

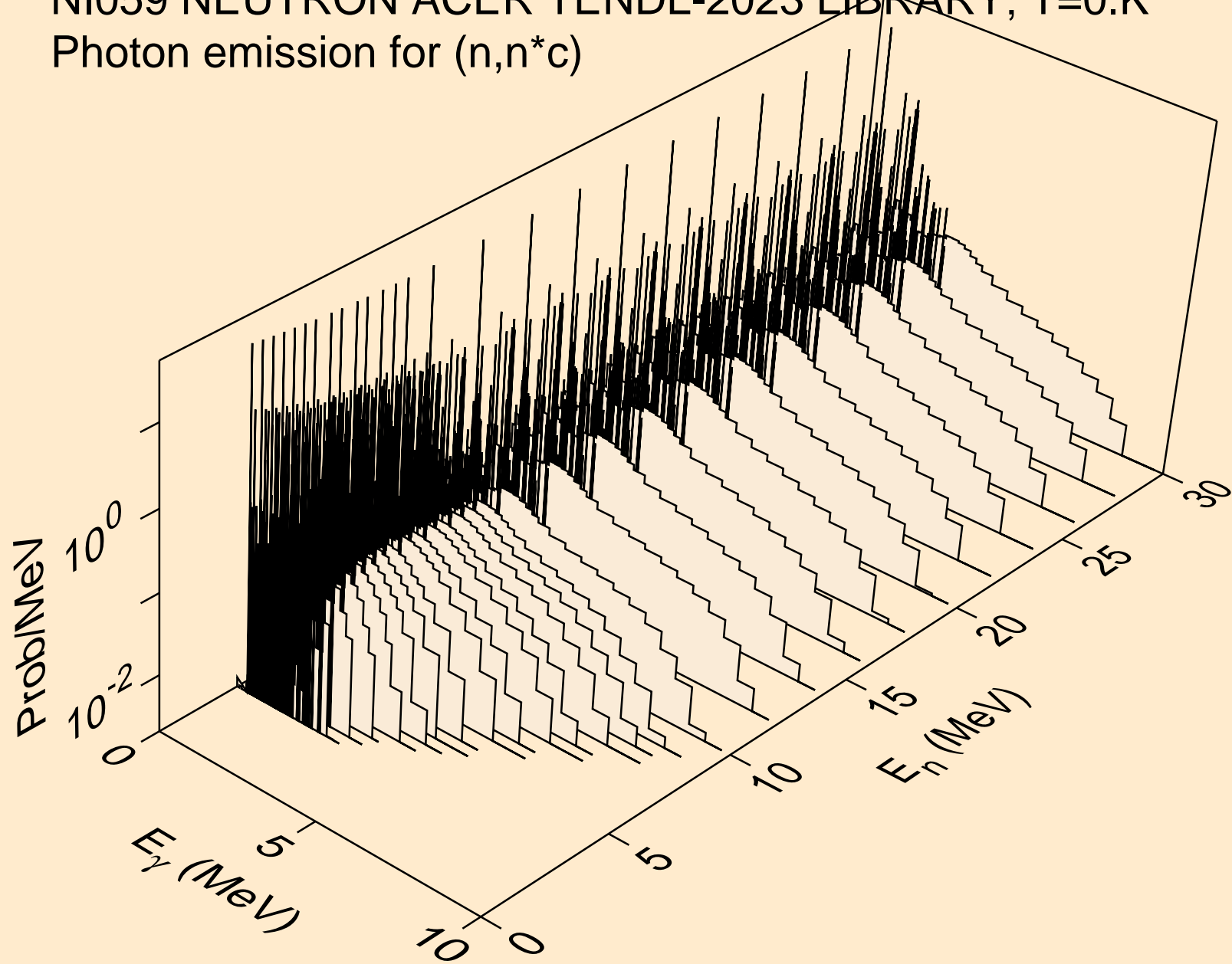




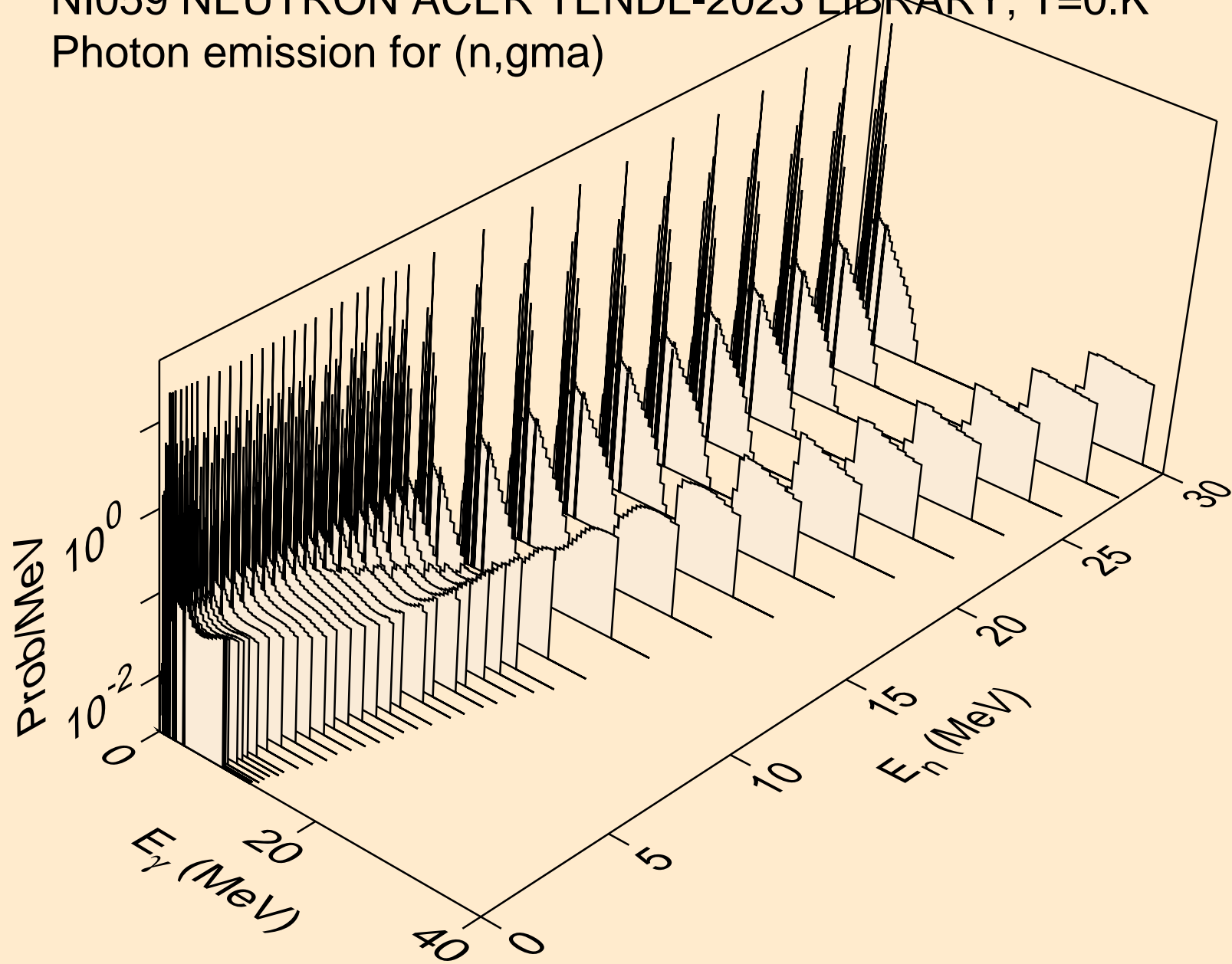
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Photon emission for (n,npa)



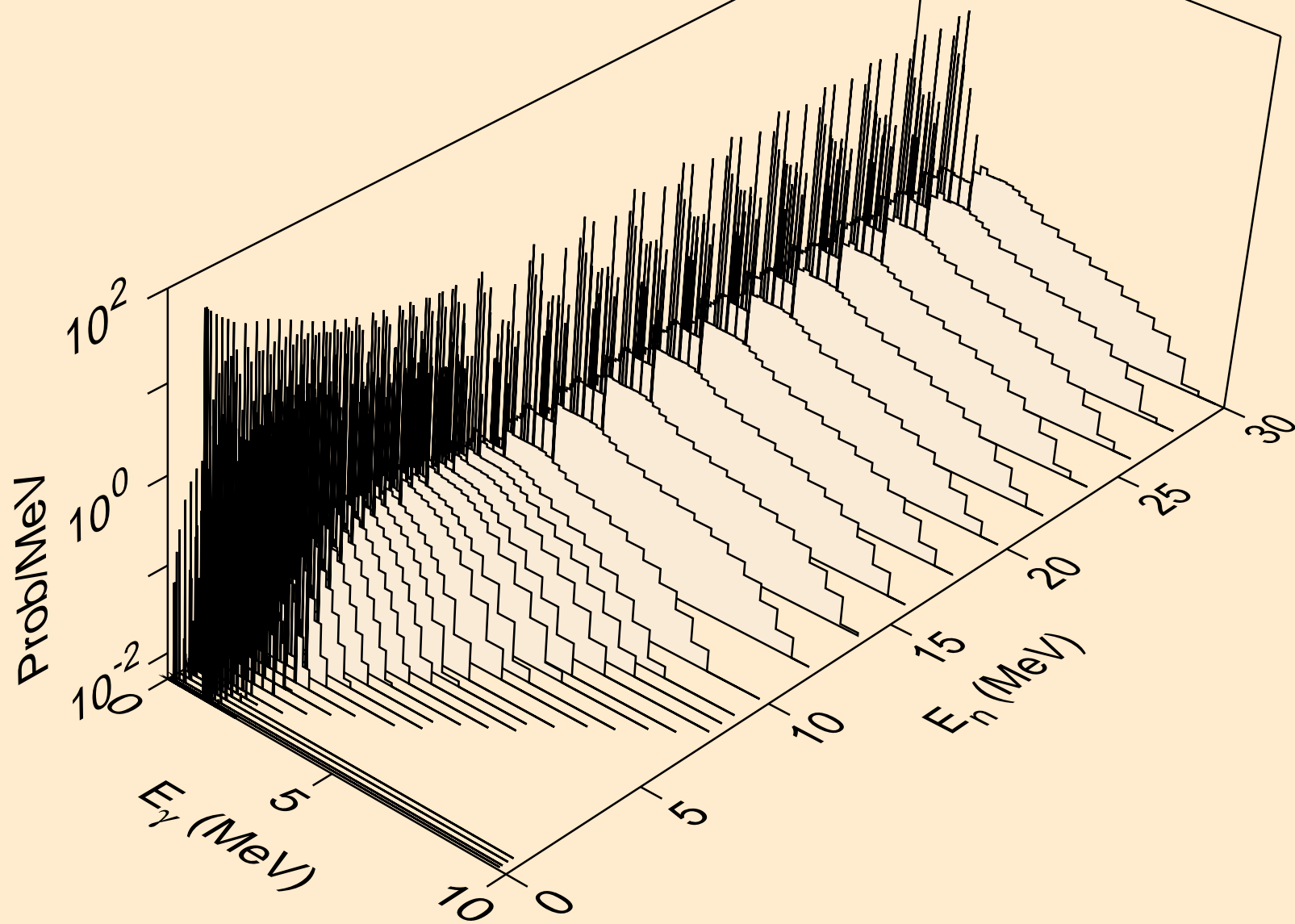
NI059 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*c)



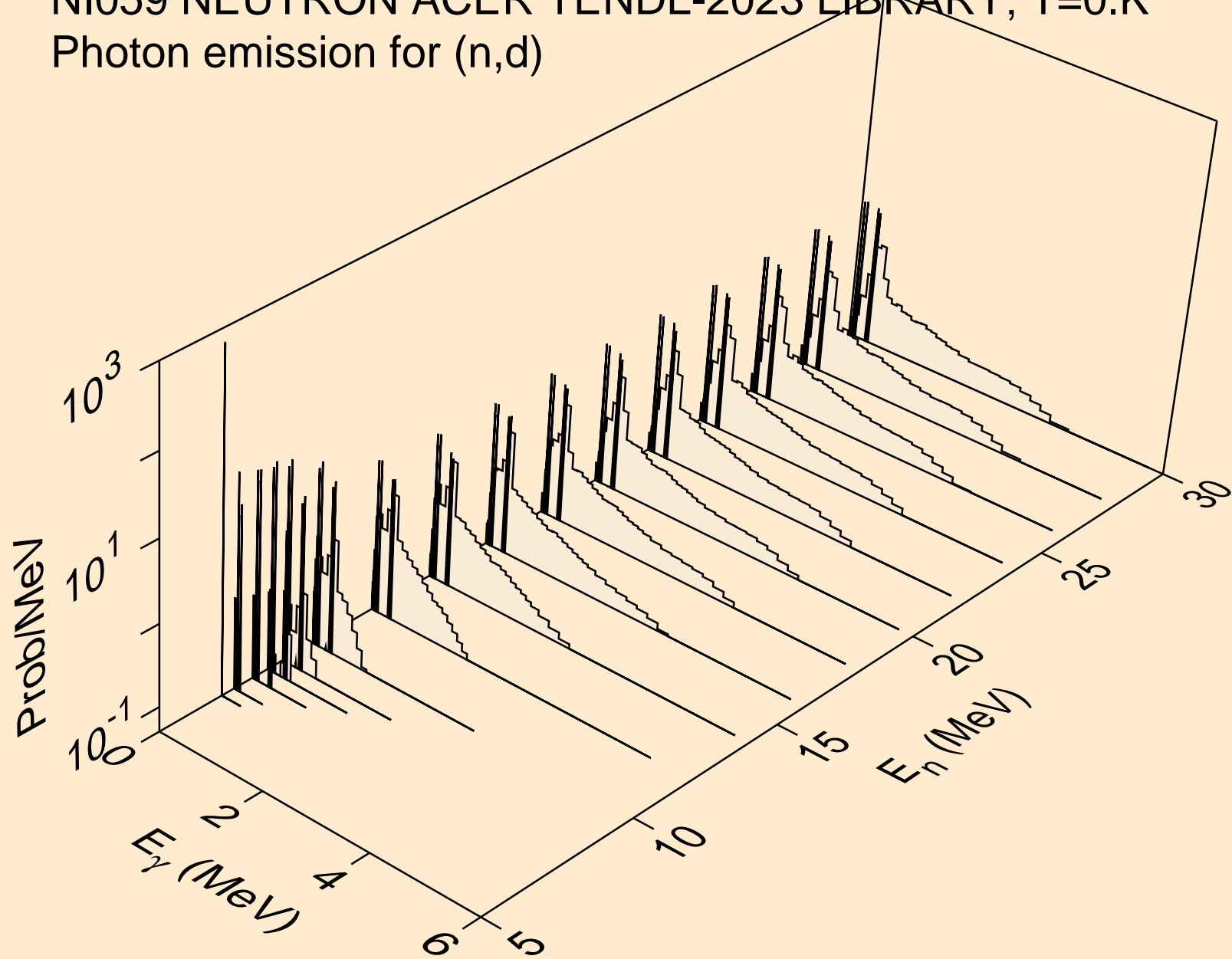
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Photon emission for (n,gma)



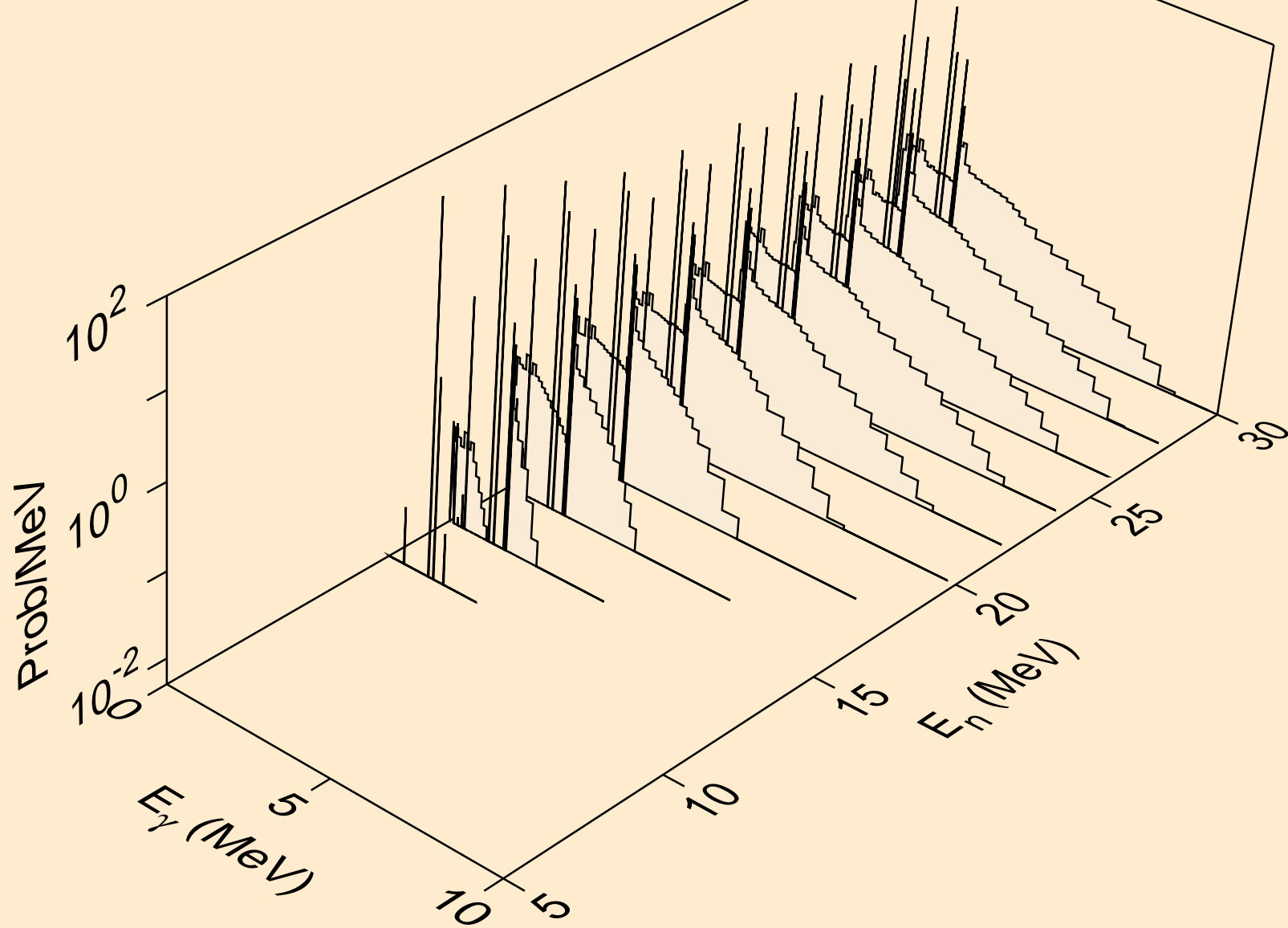
NI059 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,p)



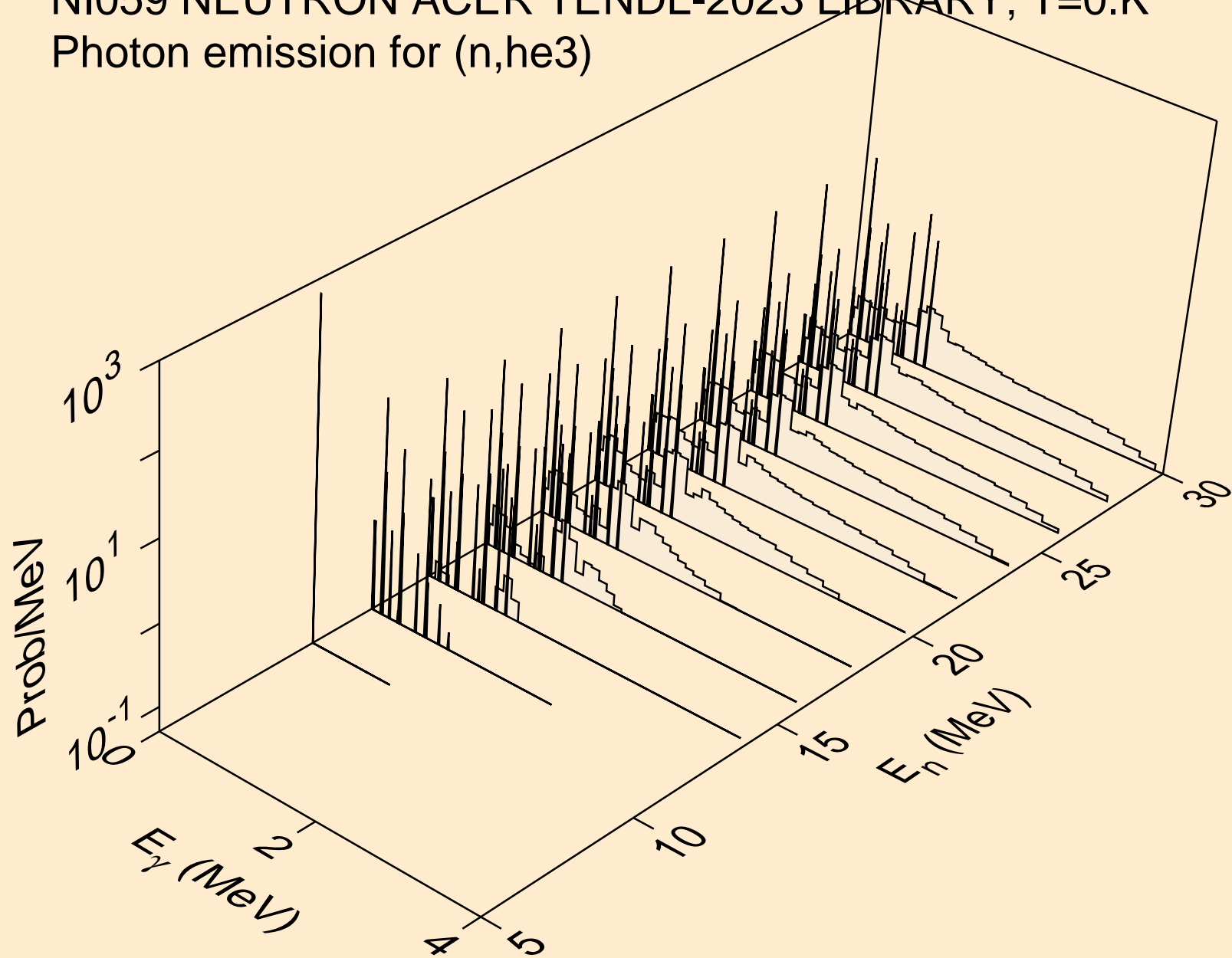
NI059 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,d)



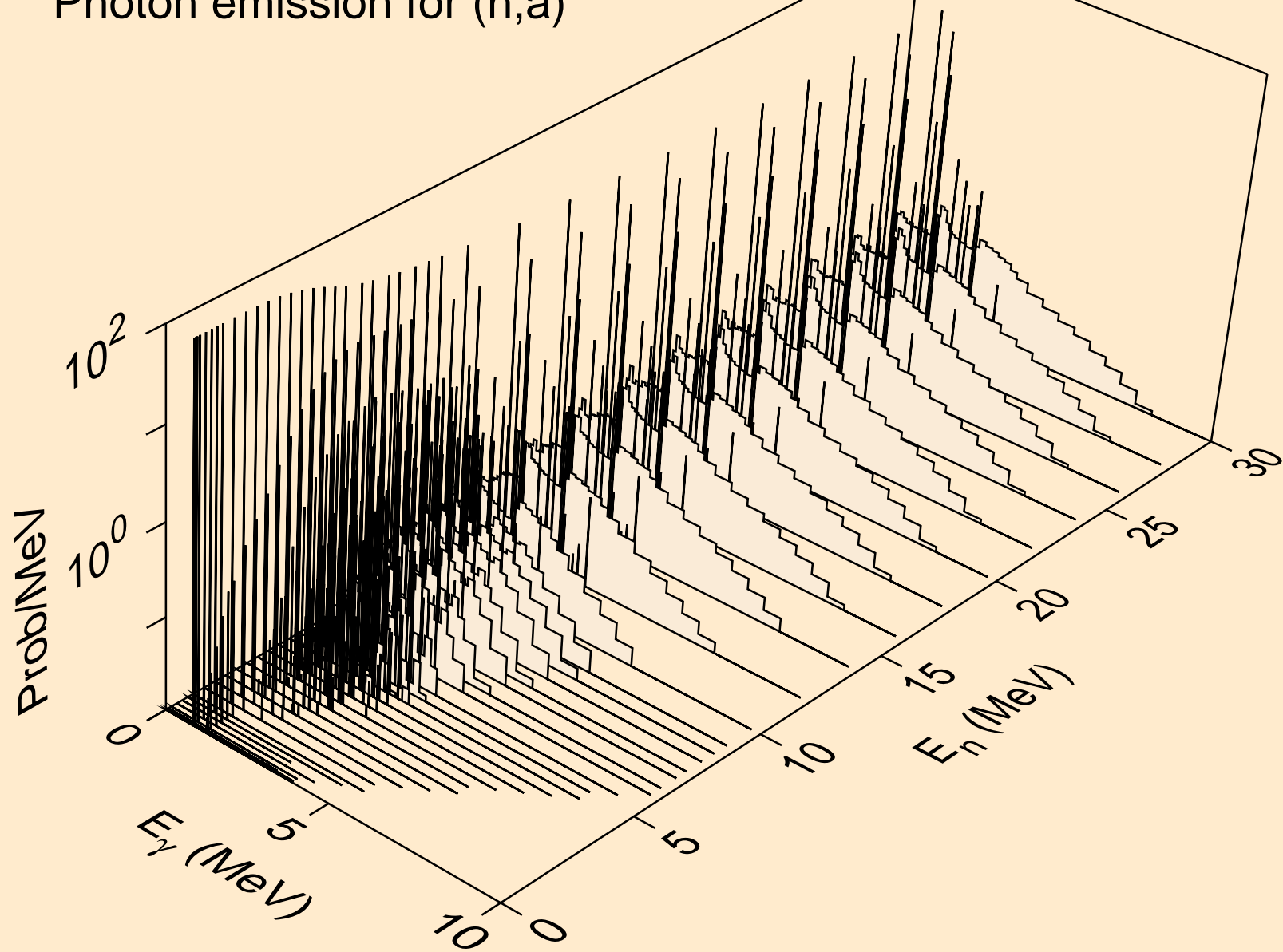
NI059 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,t)



NI059 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,he3)

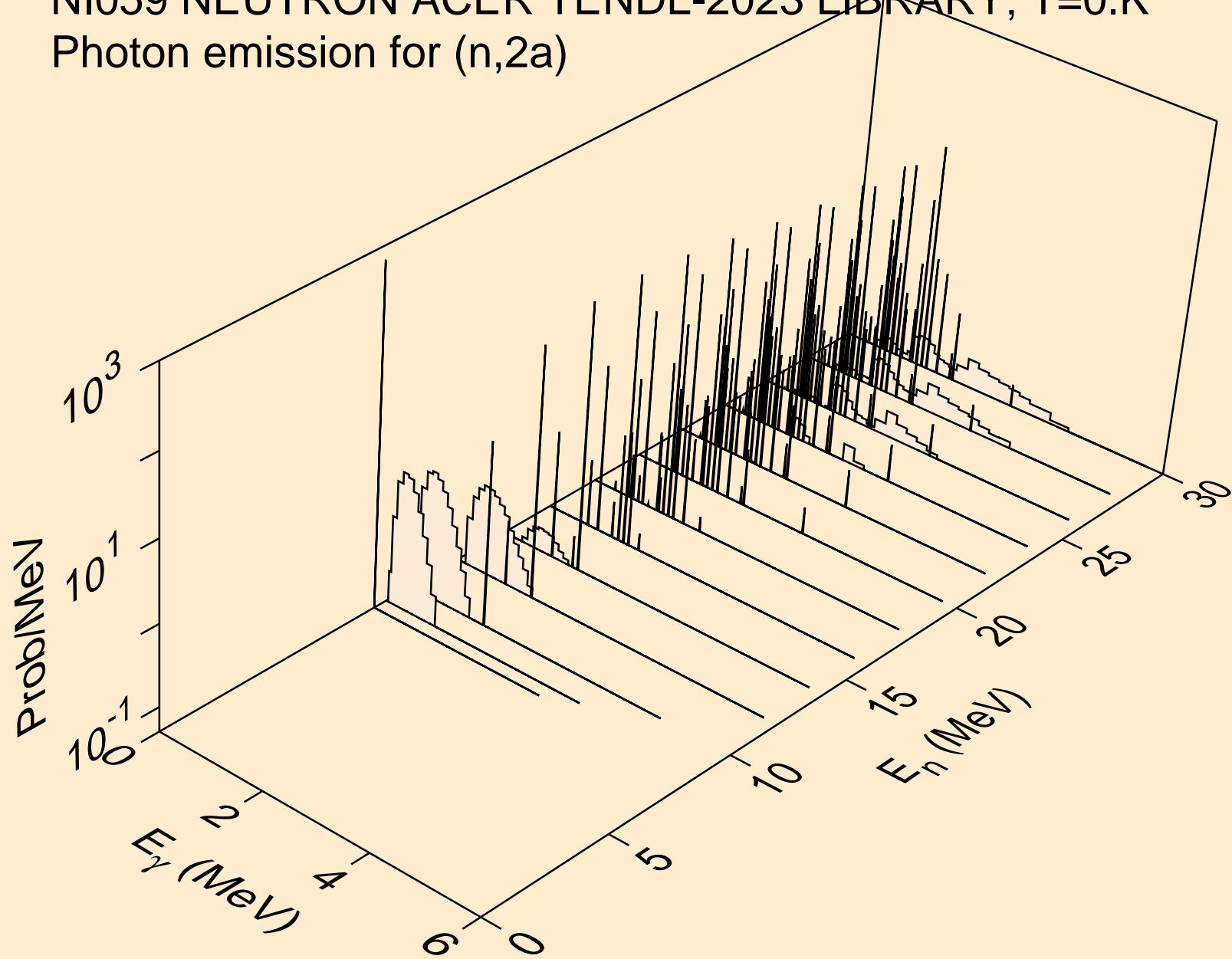


NI059 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,a)

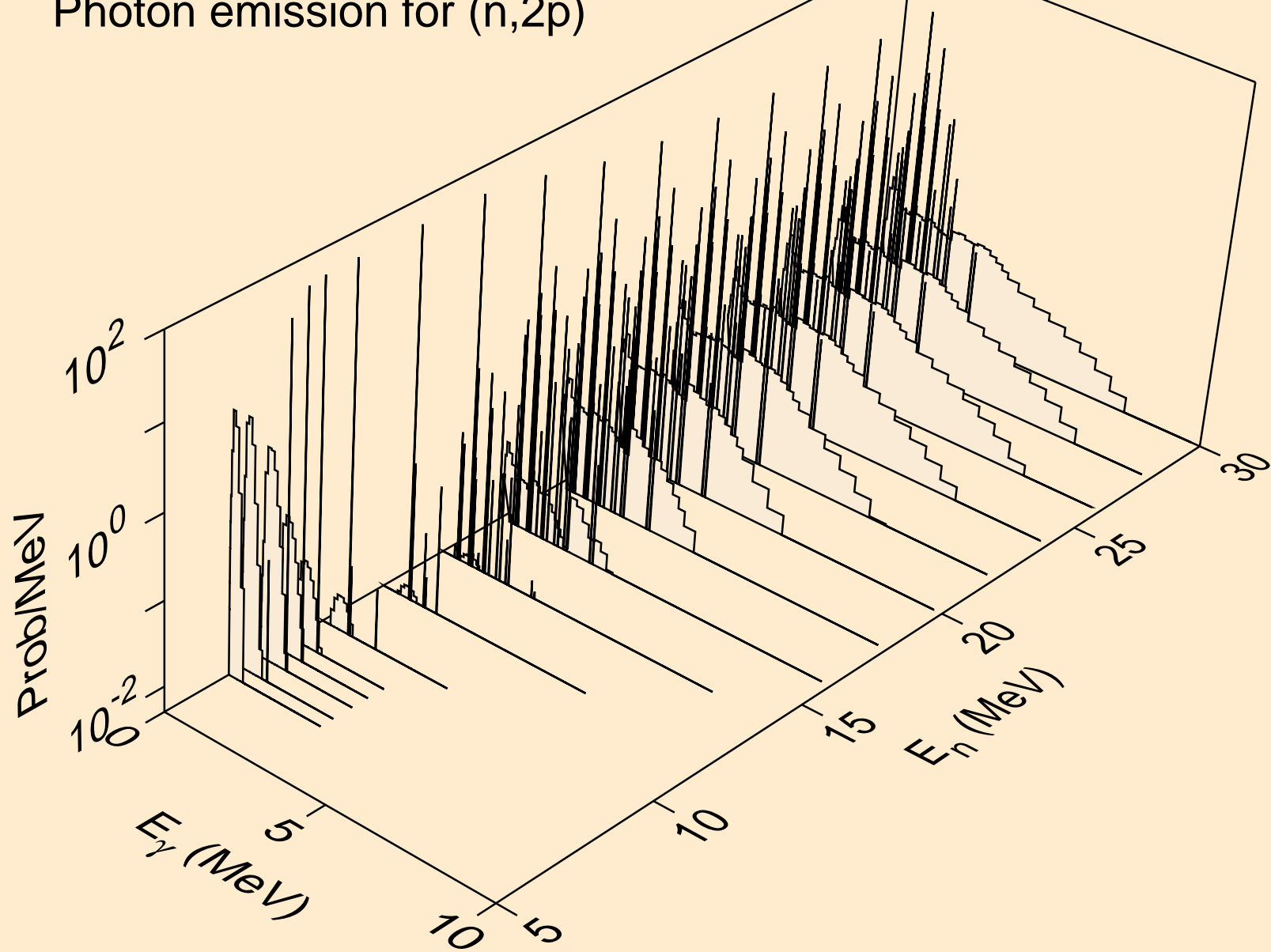




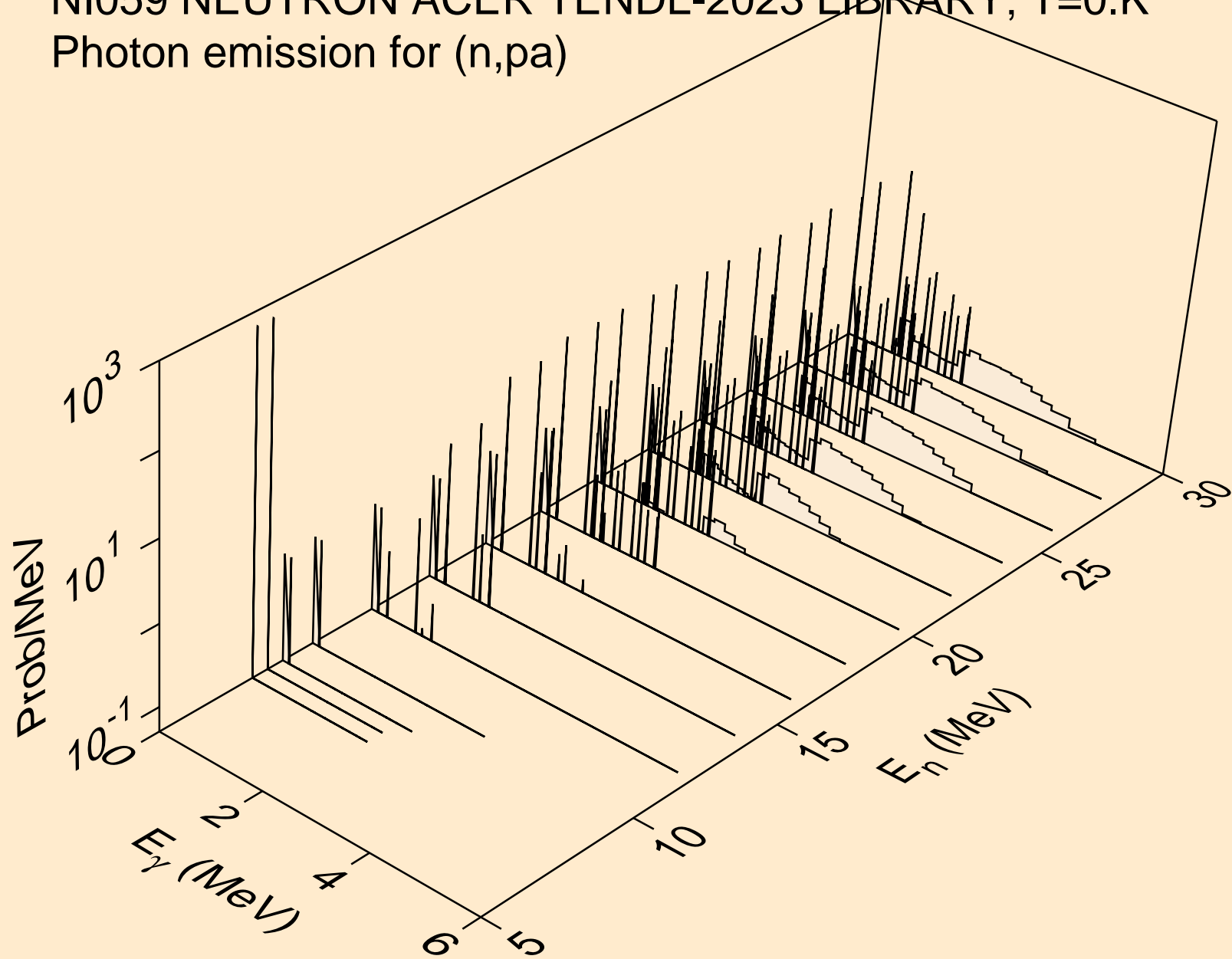
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Photon emission for (n,2a)



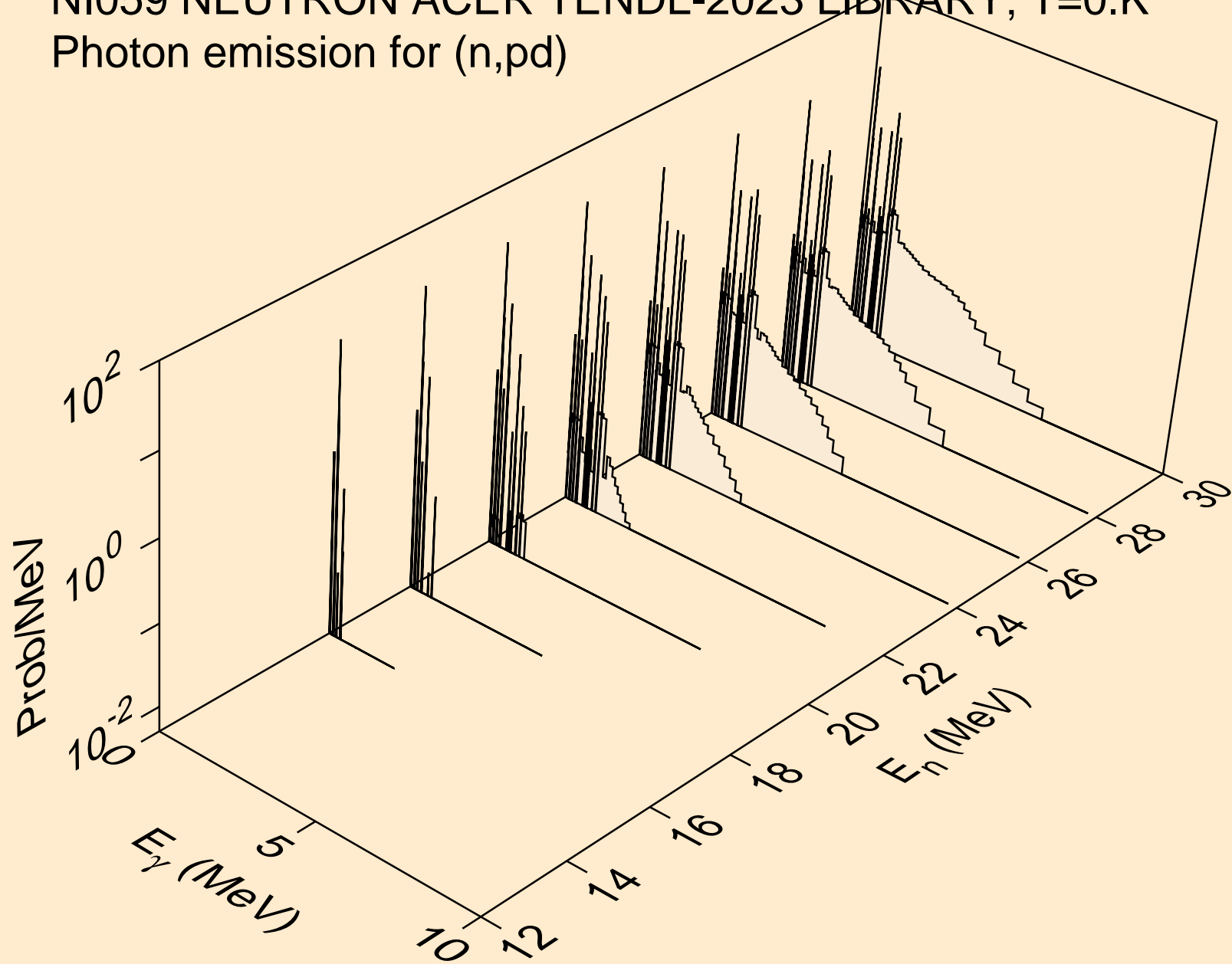
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Photon emission for (n,2p)



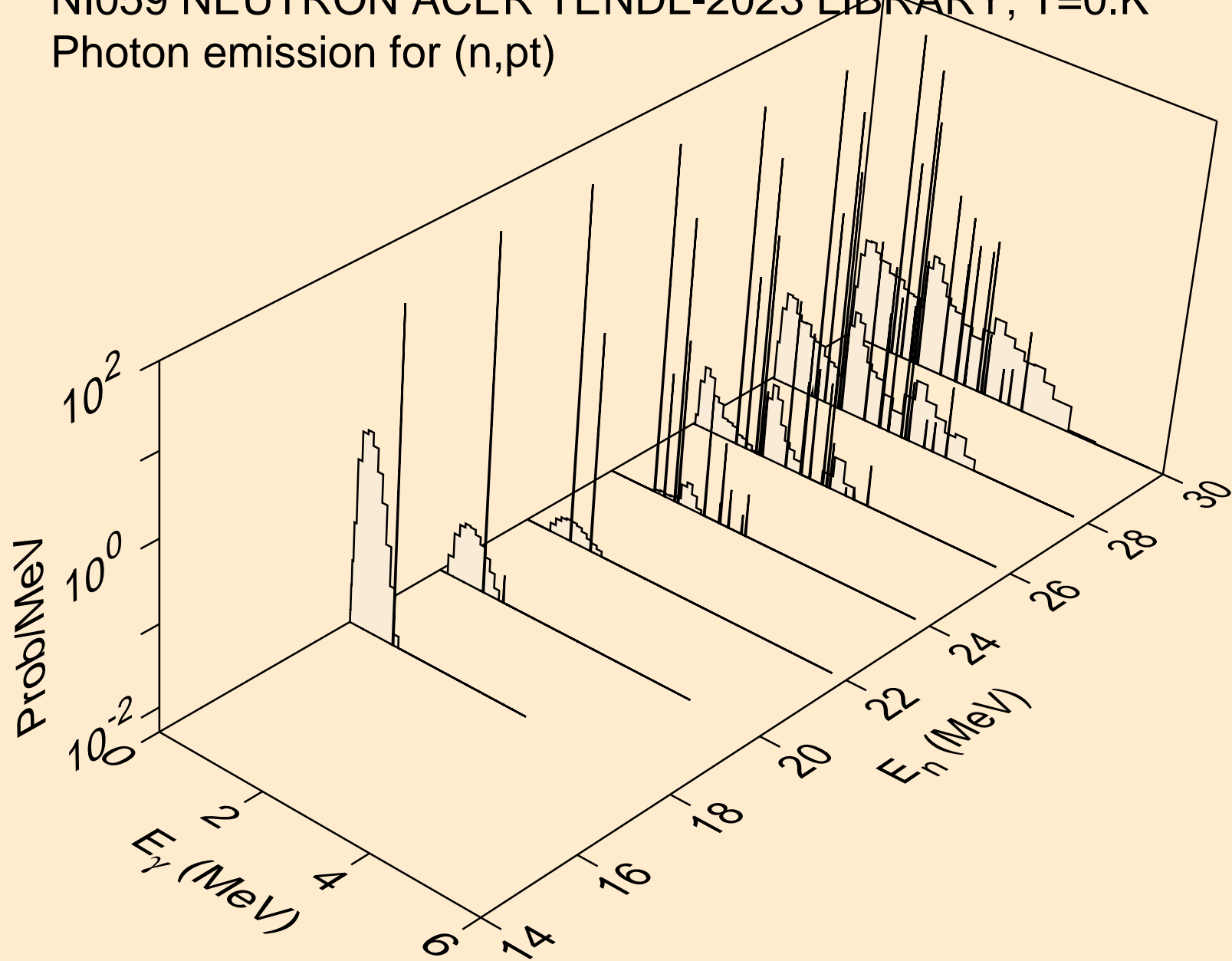
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Photon emission for (n,p $\alpha$ )



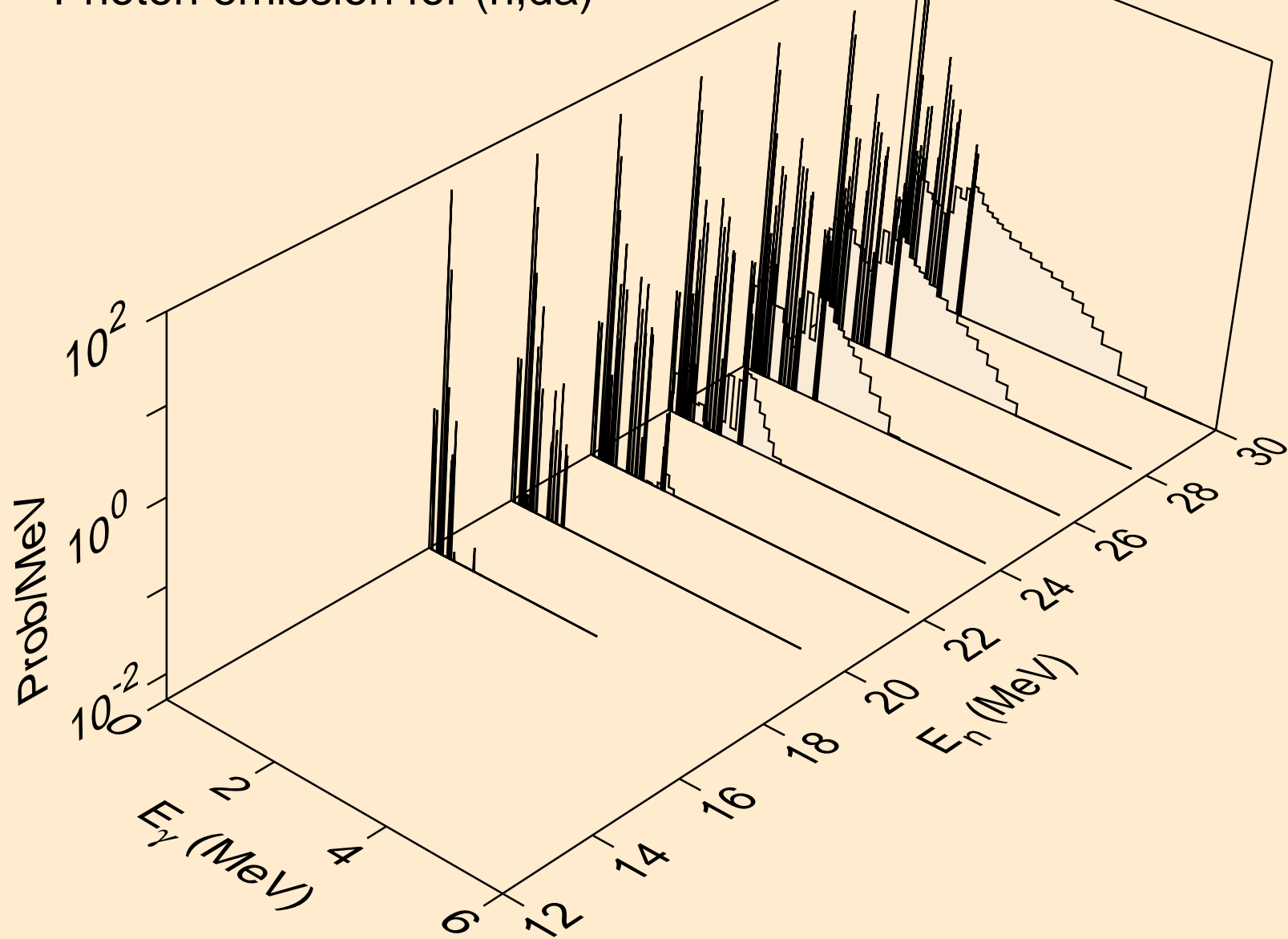
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Photon emission for (n,pd)



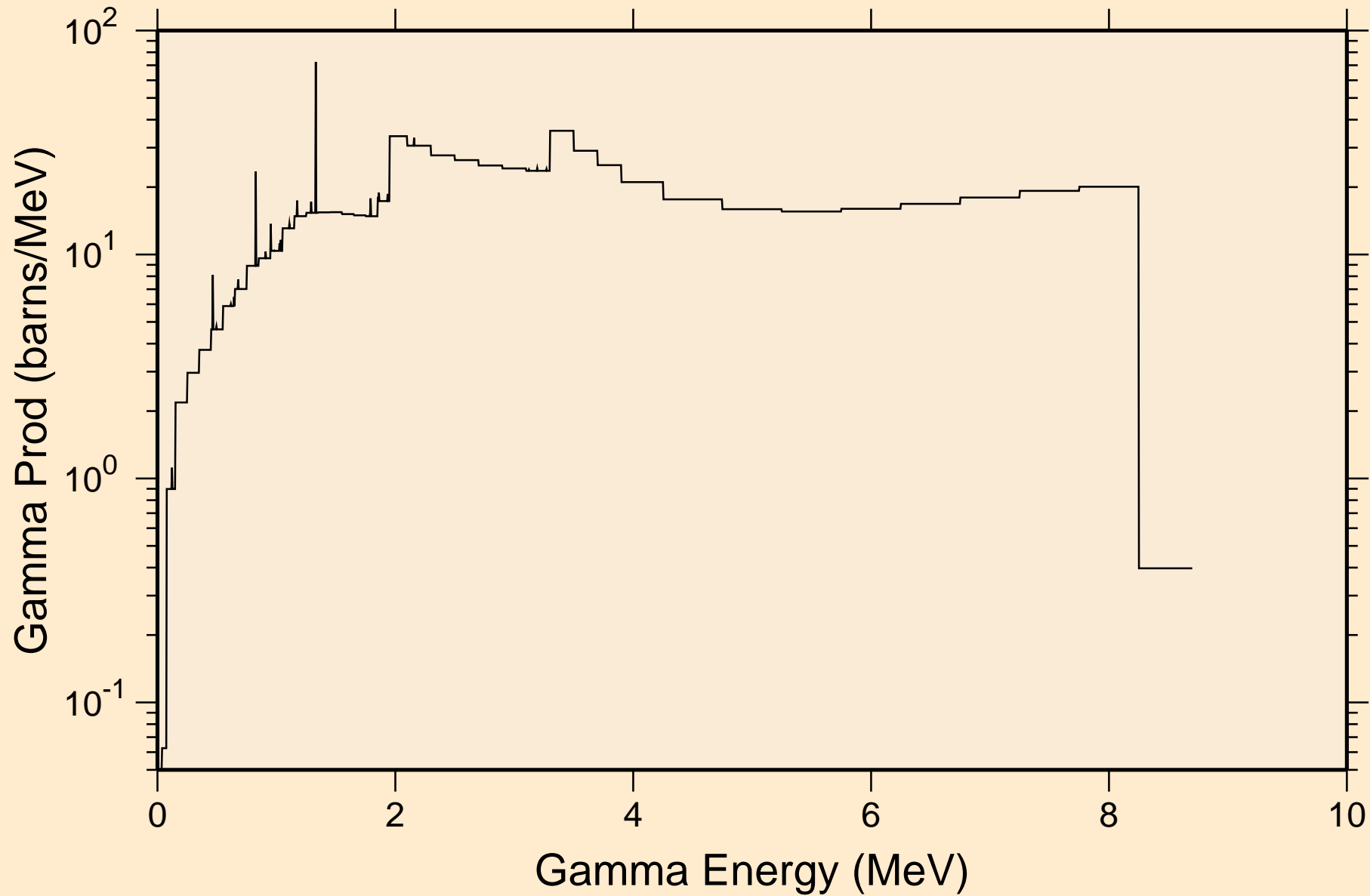
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Photon emission for (n,pt)



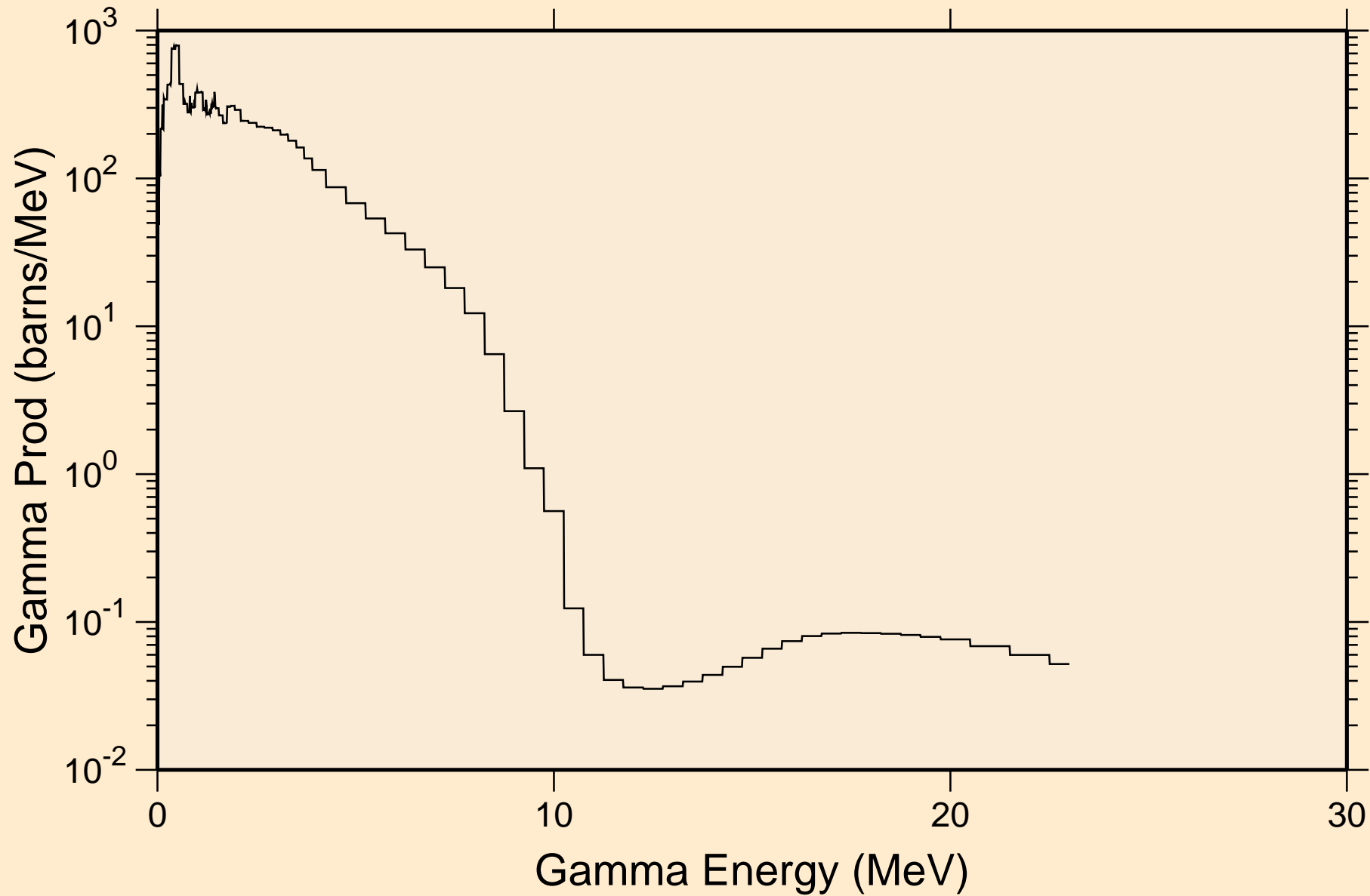
NI059 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,da)



NI059 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
thermal capture photon spectrum



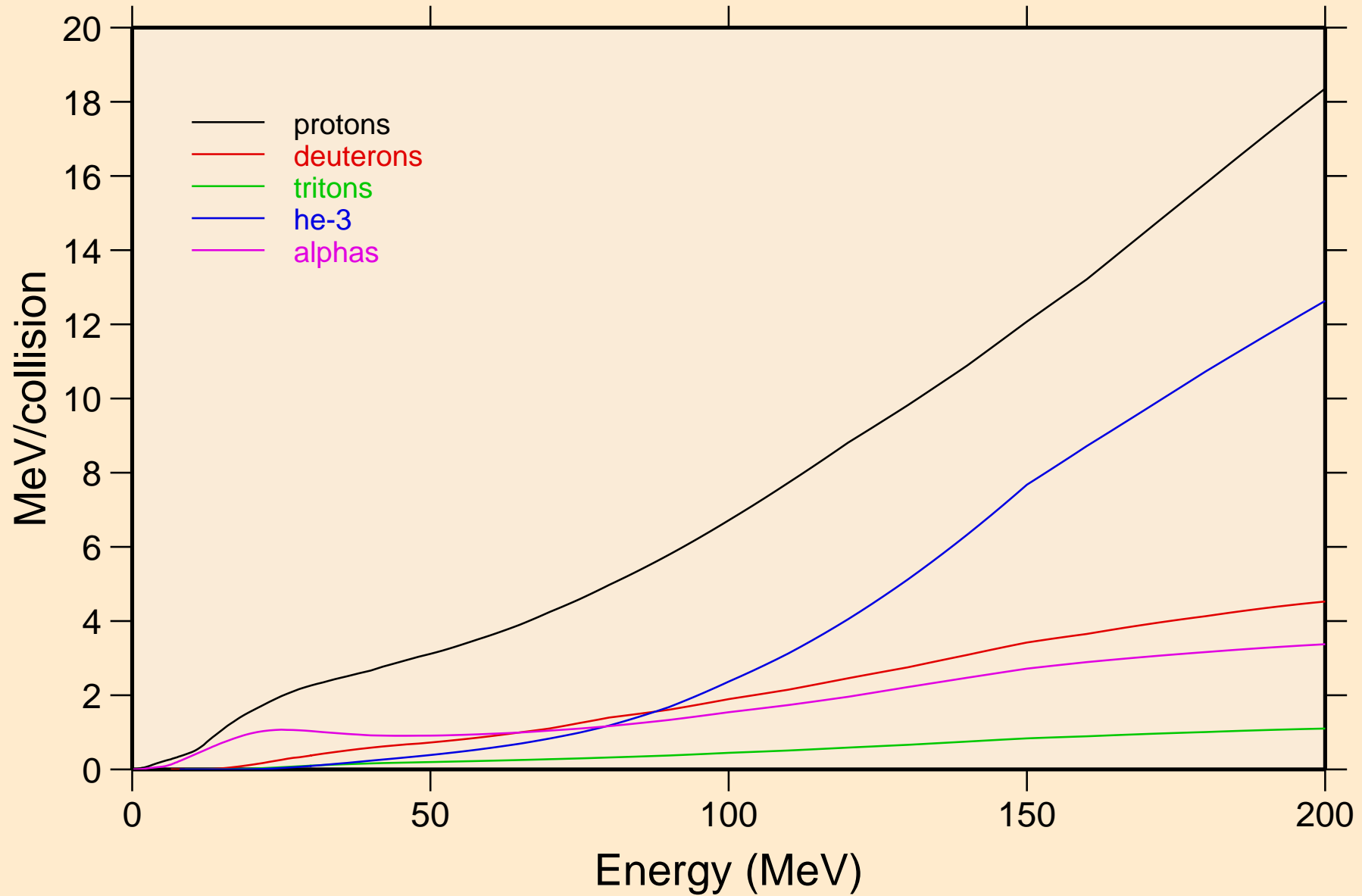
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14 MeV photon spectrum





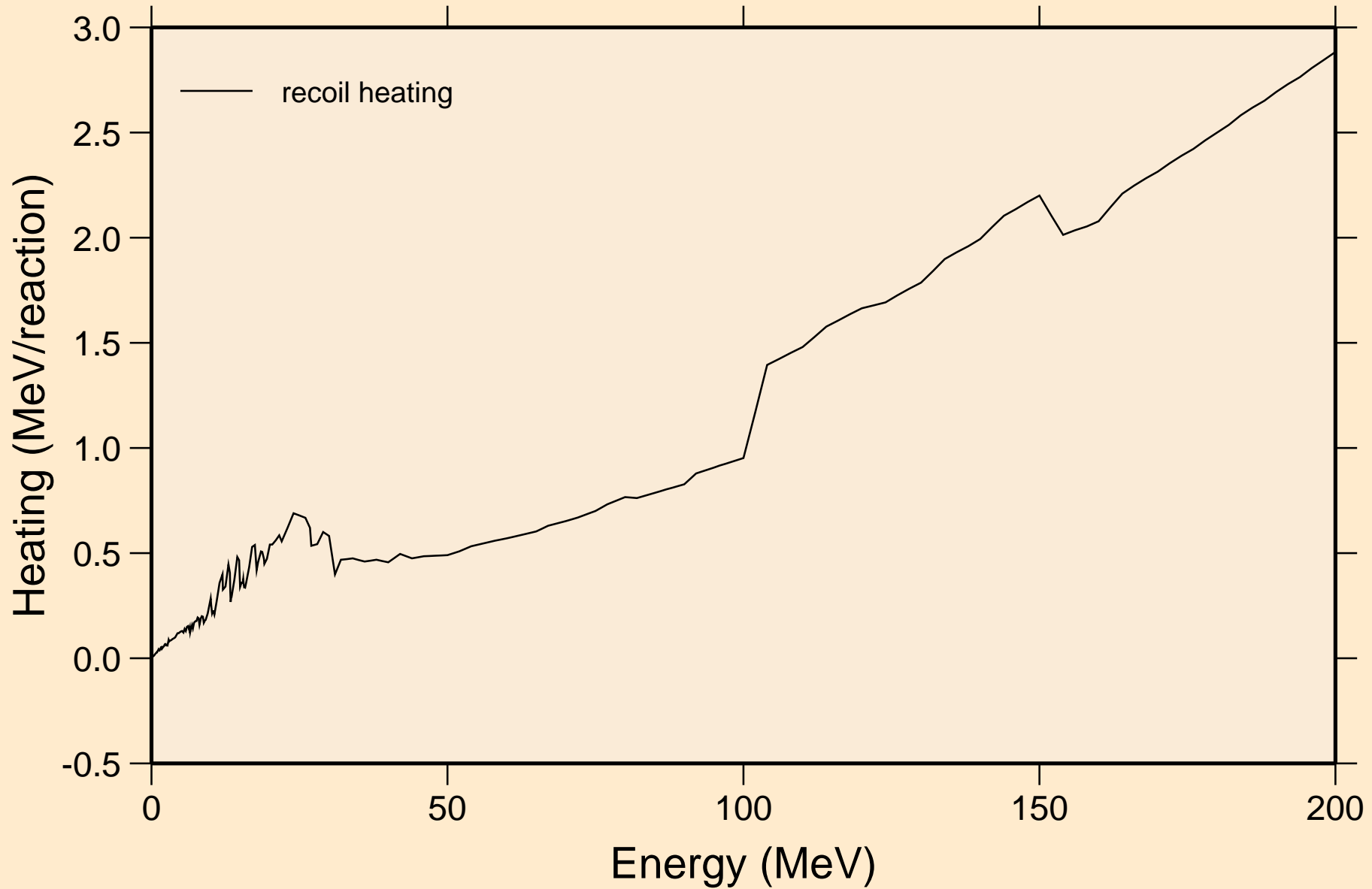
# NI059 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

## Particle heating contributions

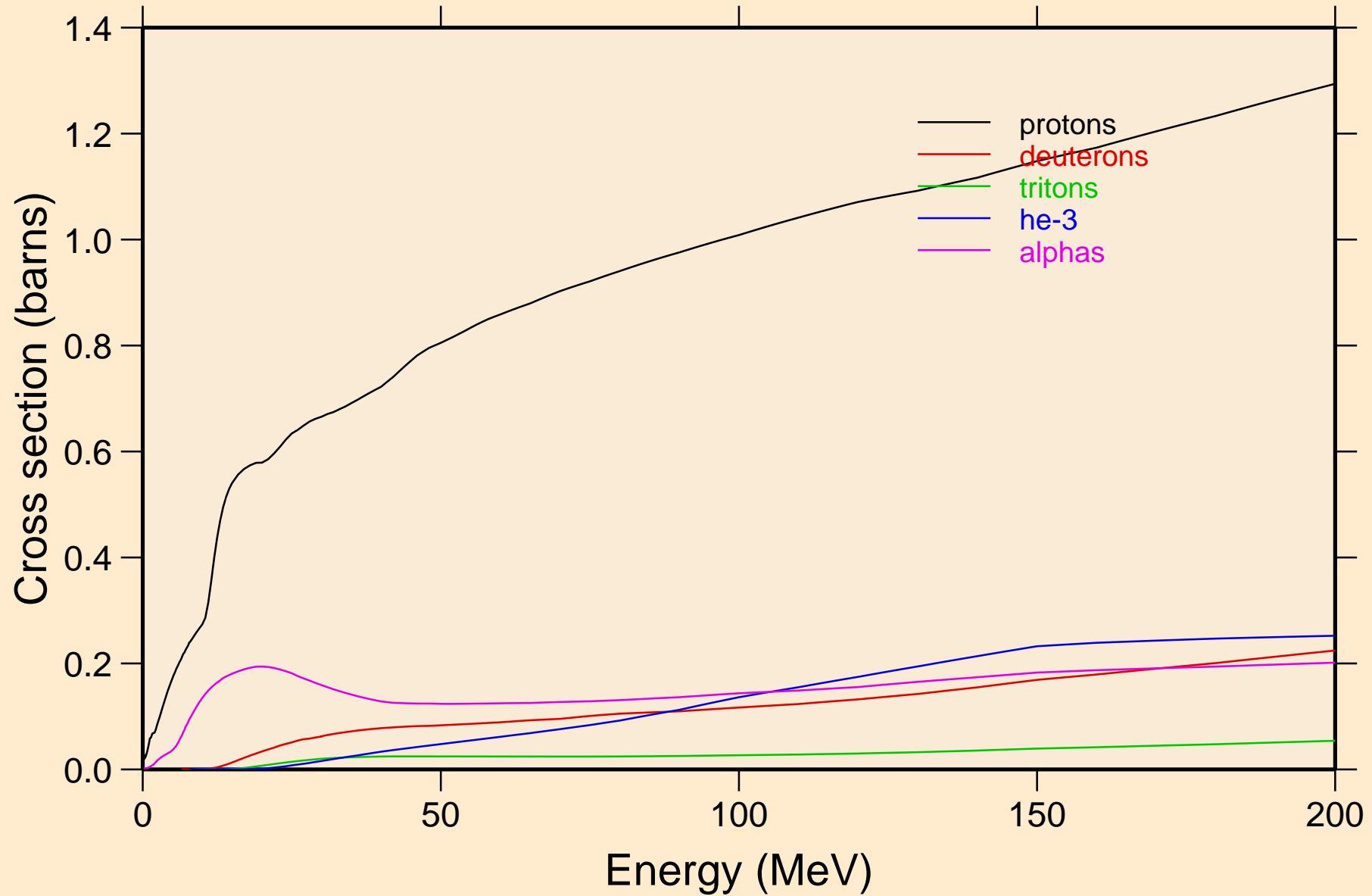


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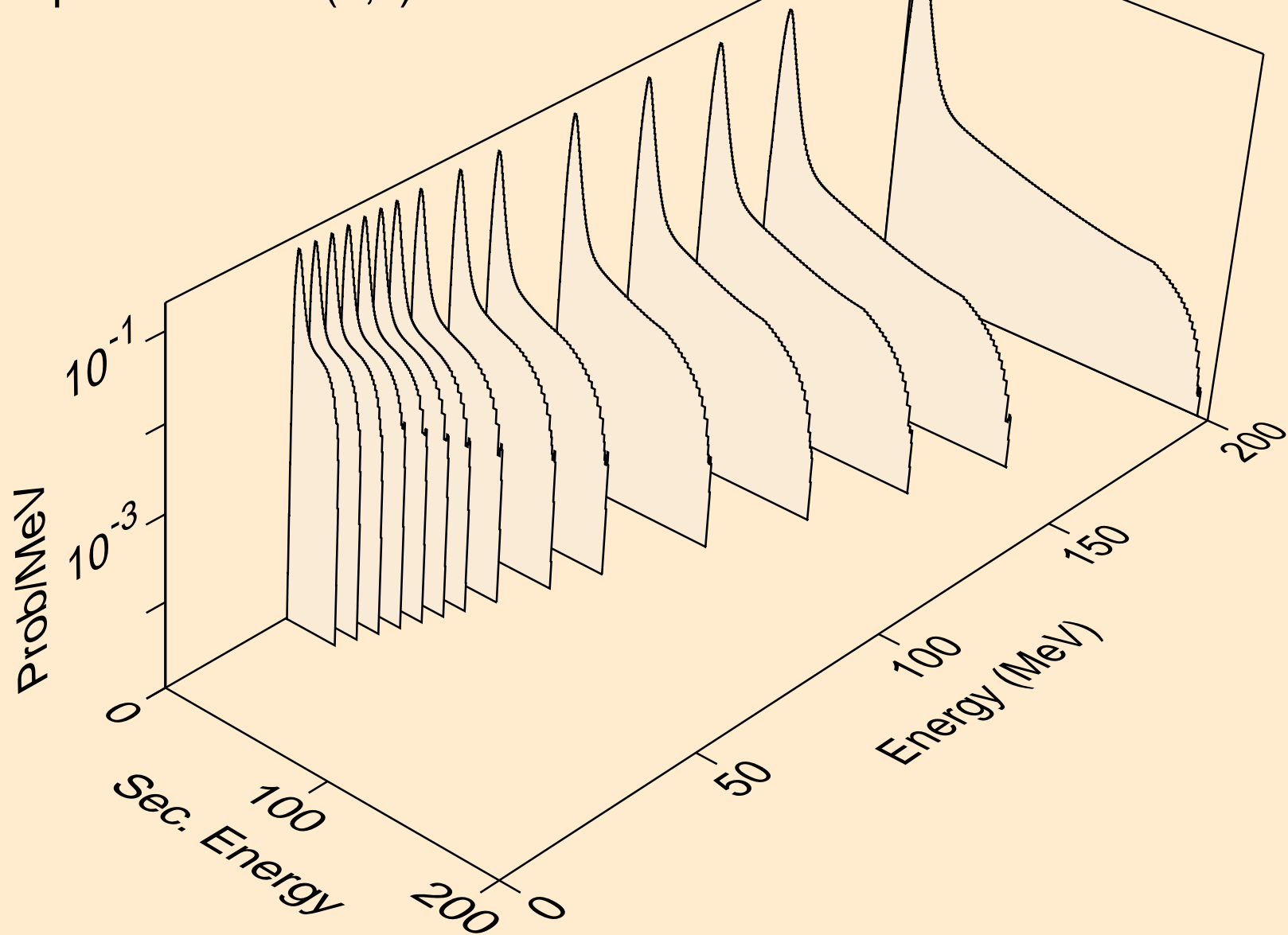
## Recoil Heating



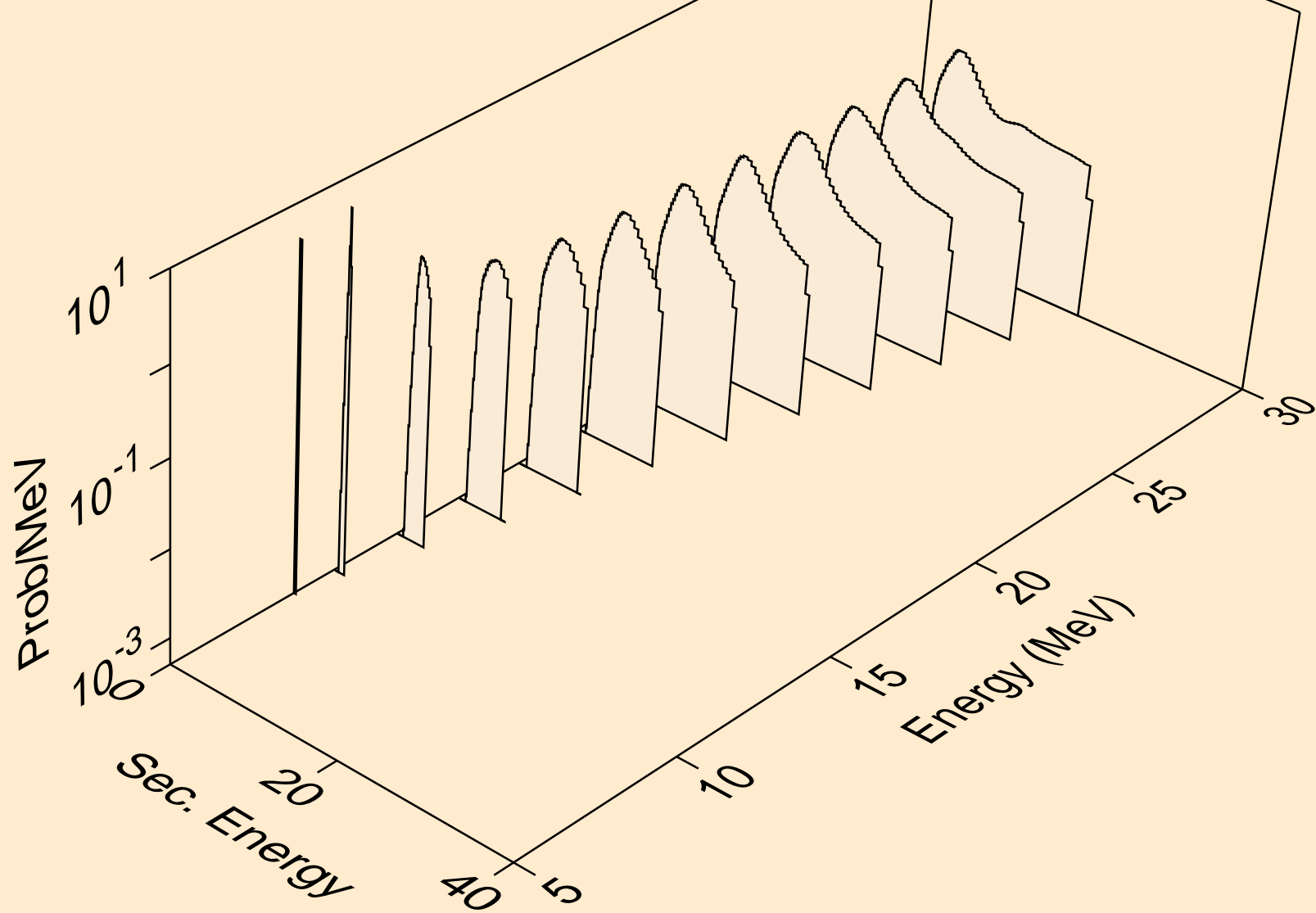
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Particle production cross sections



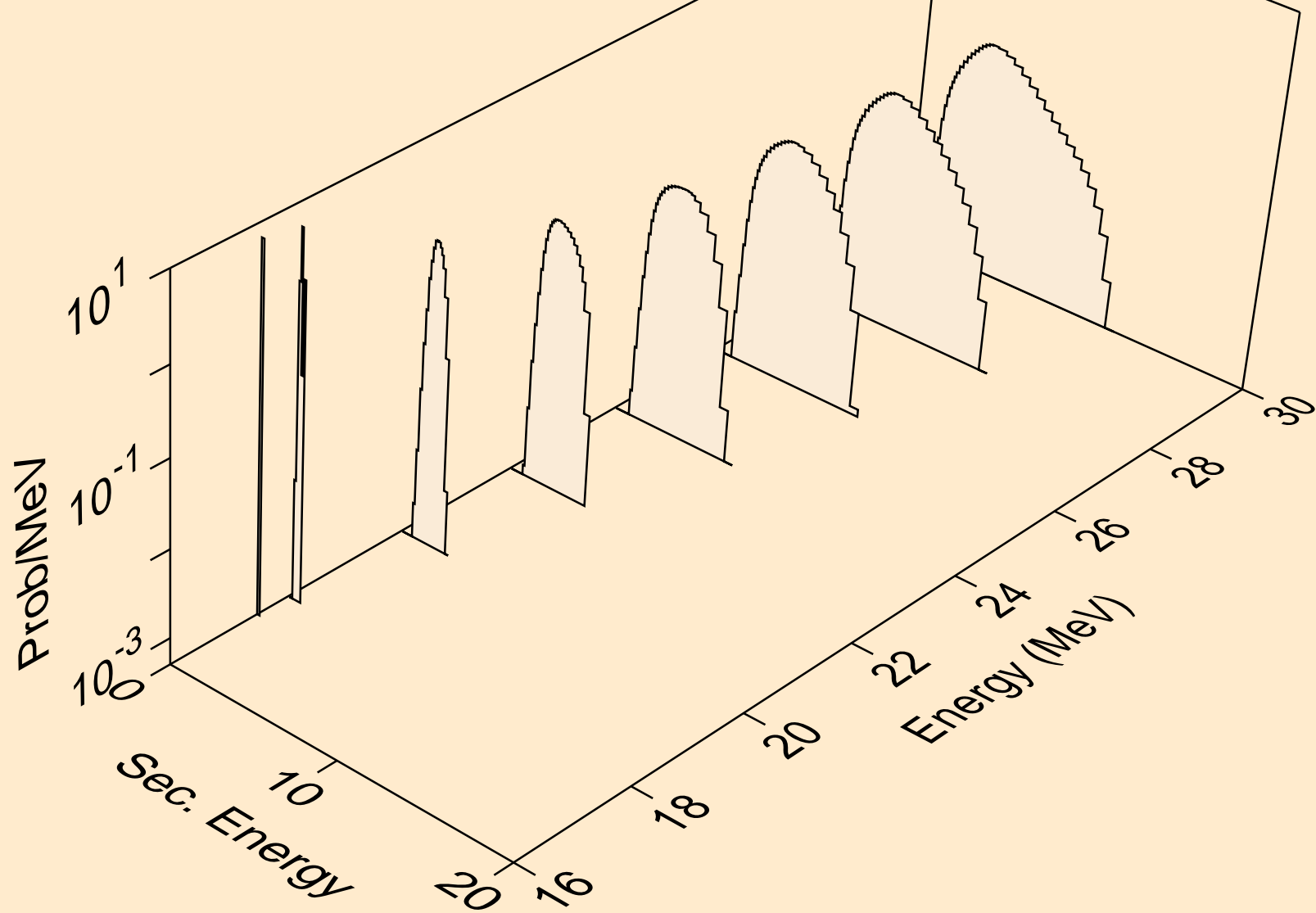
NI059 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
protons from (n,x)



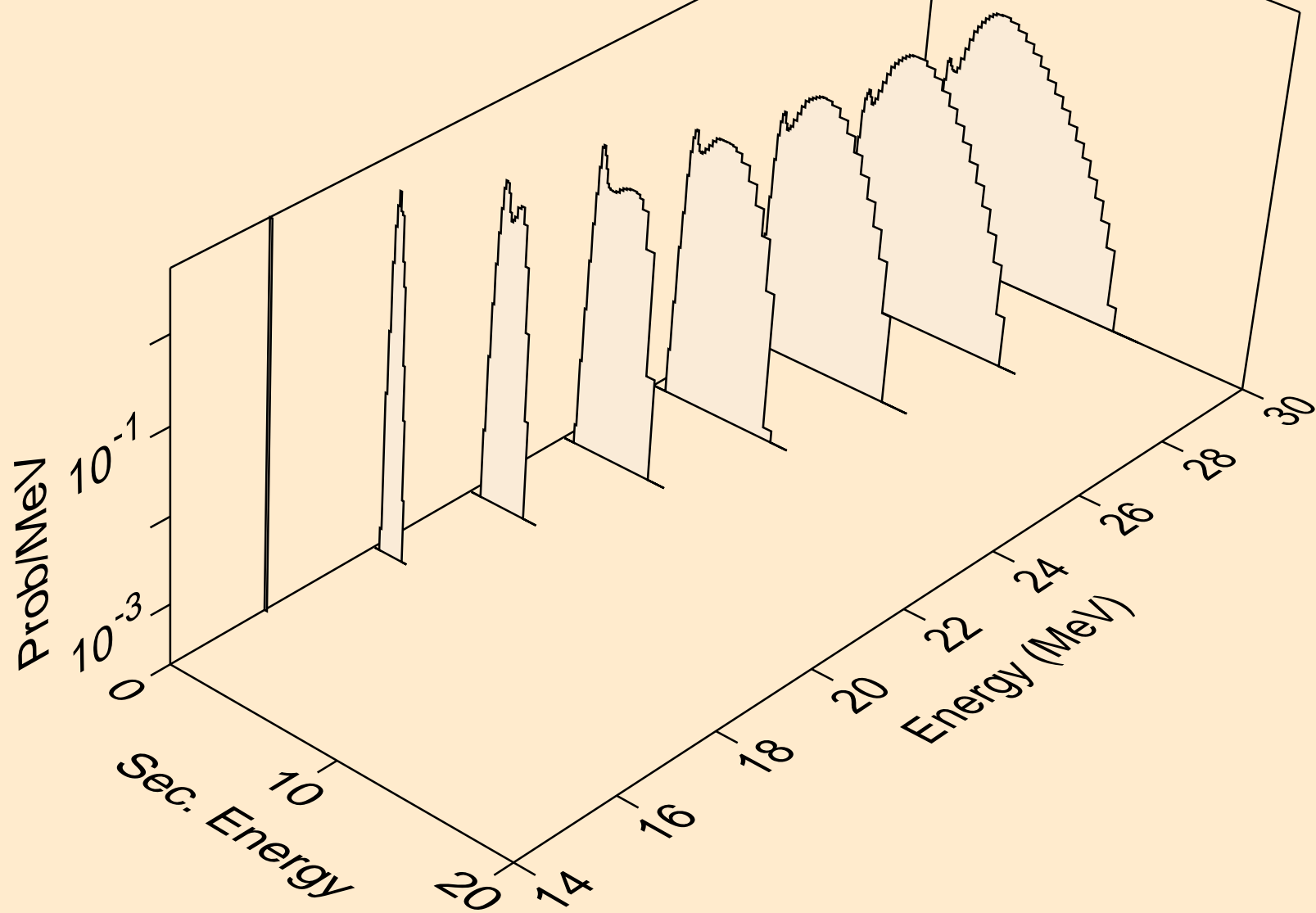
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protons from (n,n\*)p



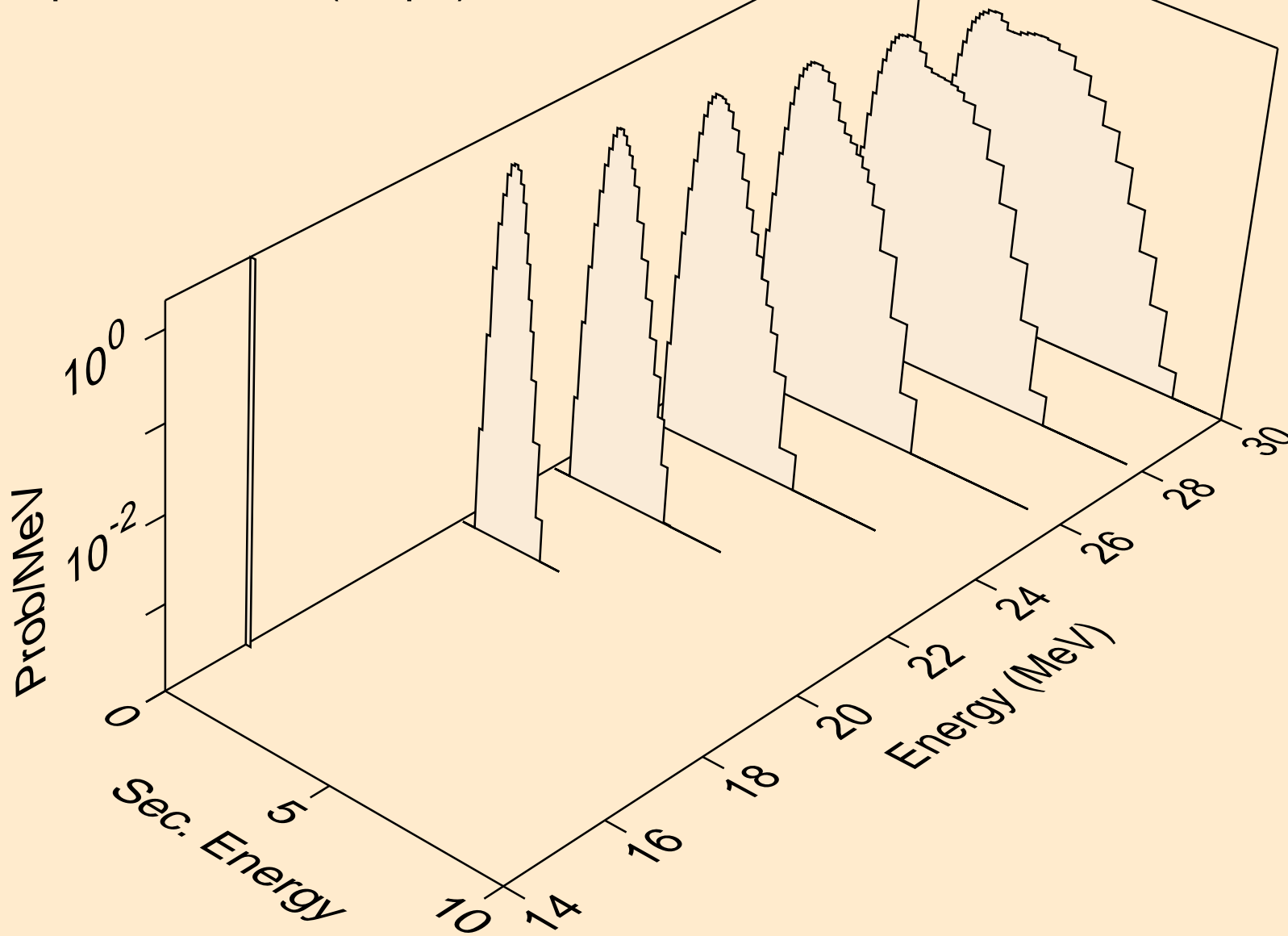
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protons from (n,2np)



NI059 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
protons from (n,n2p)

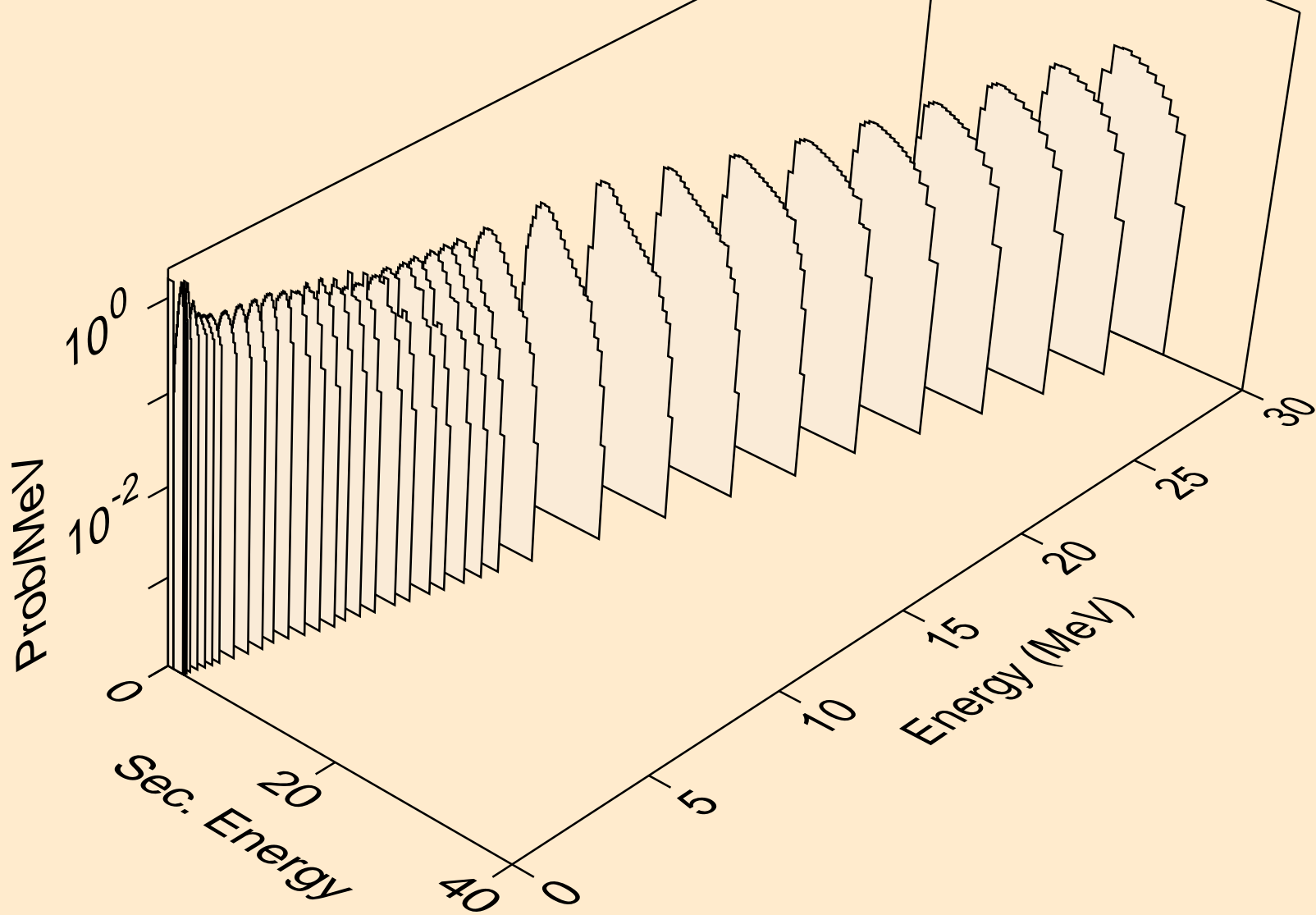


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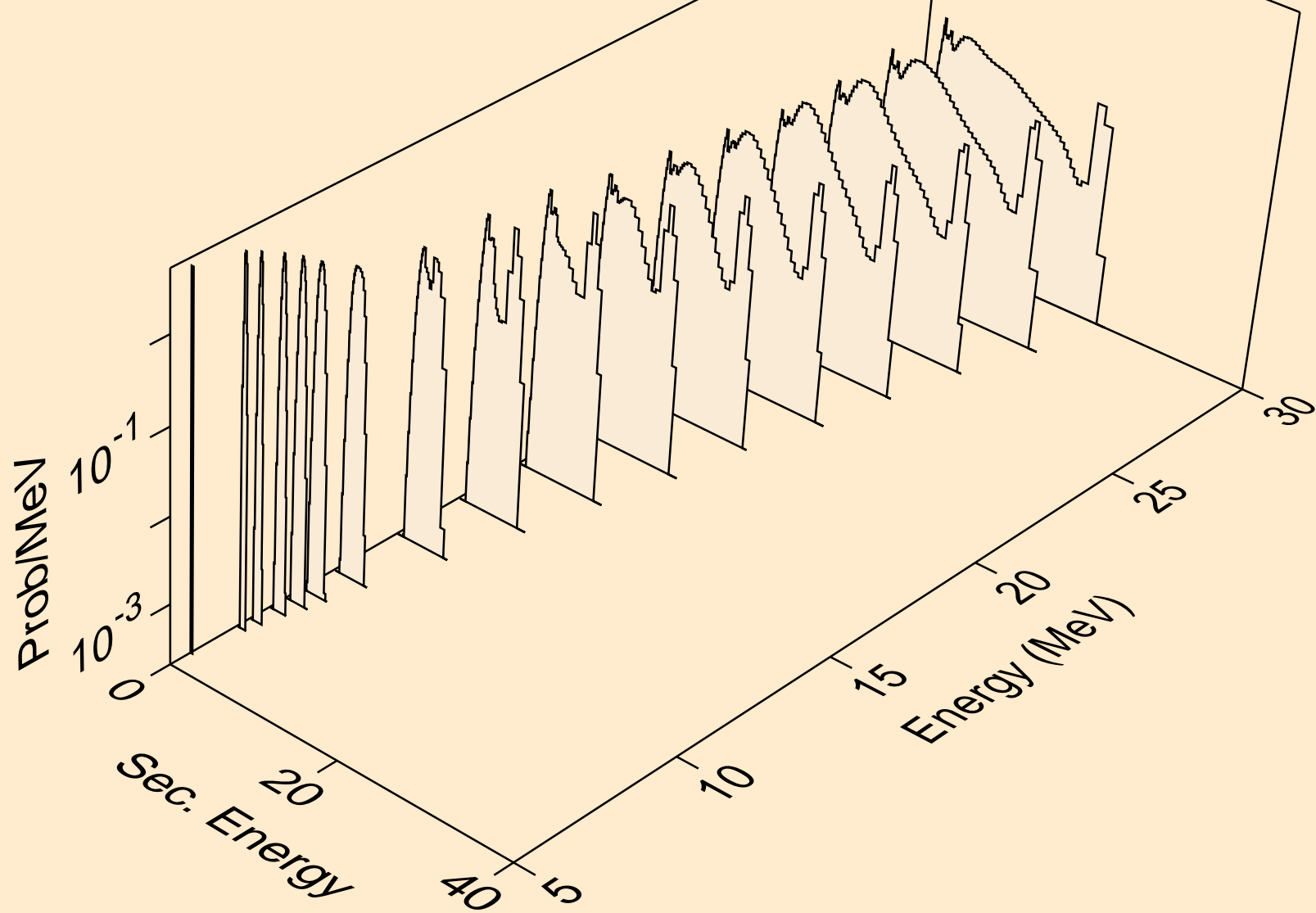




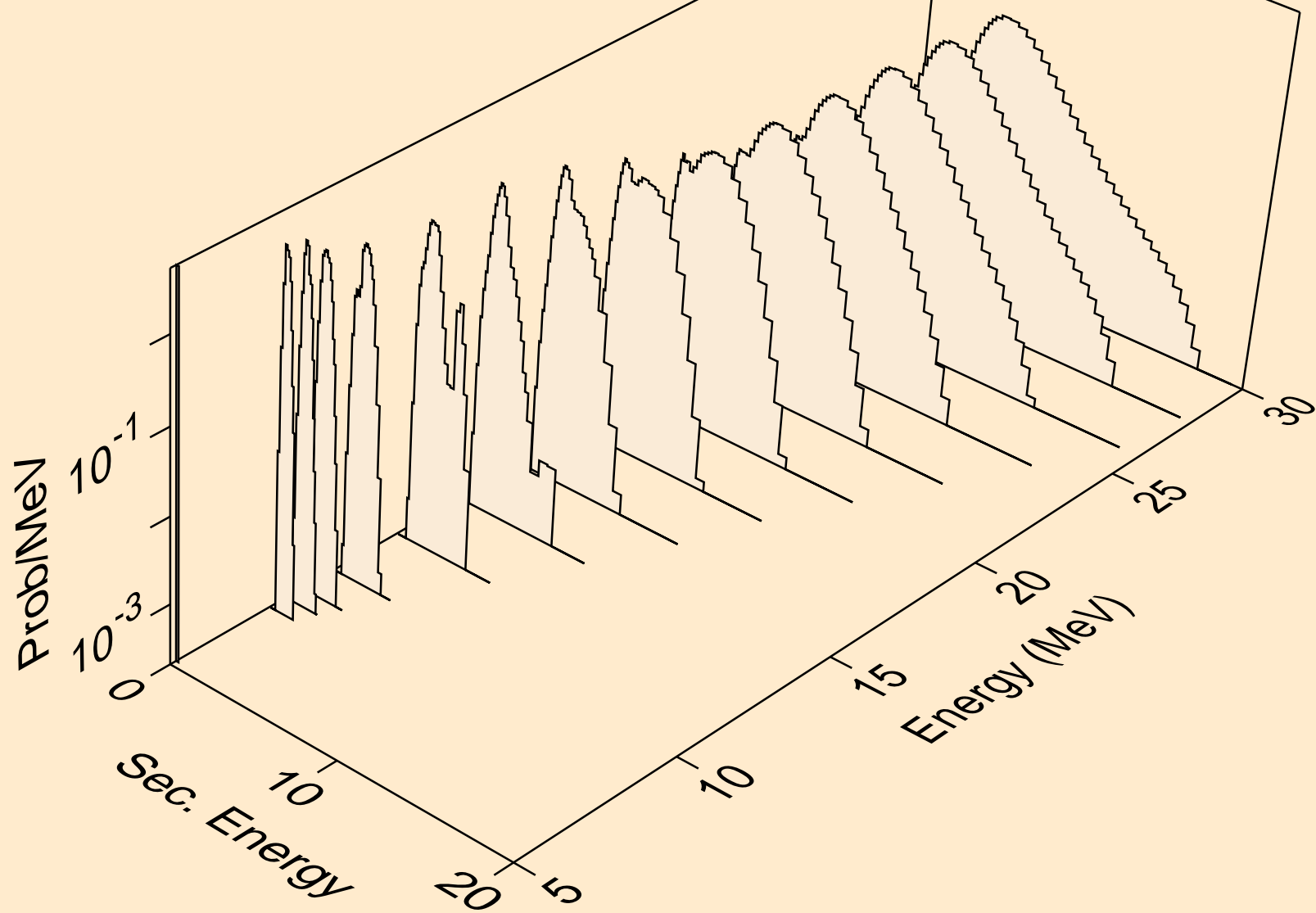
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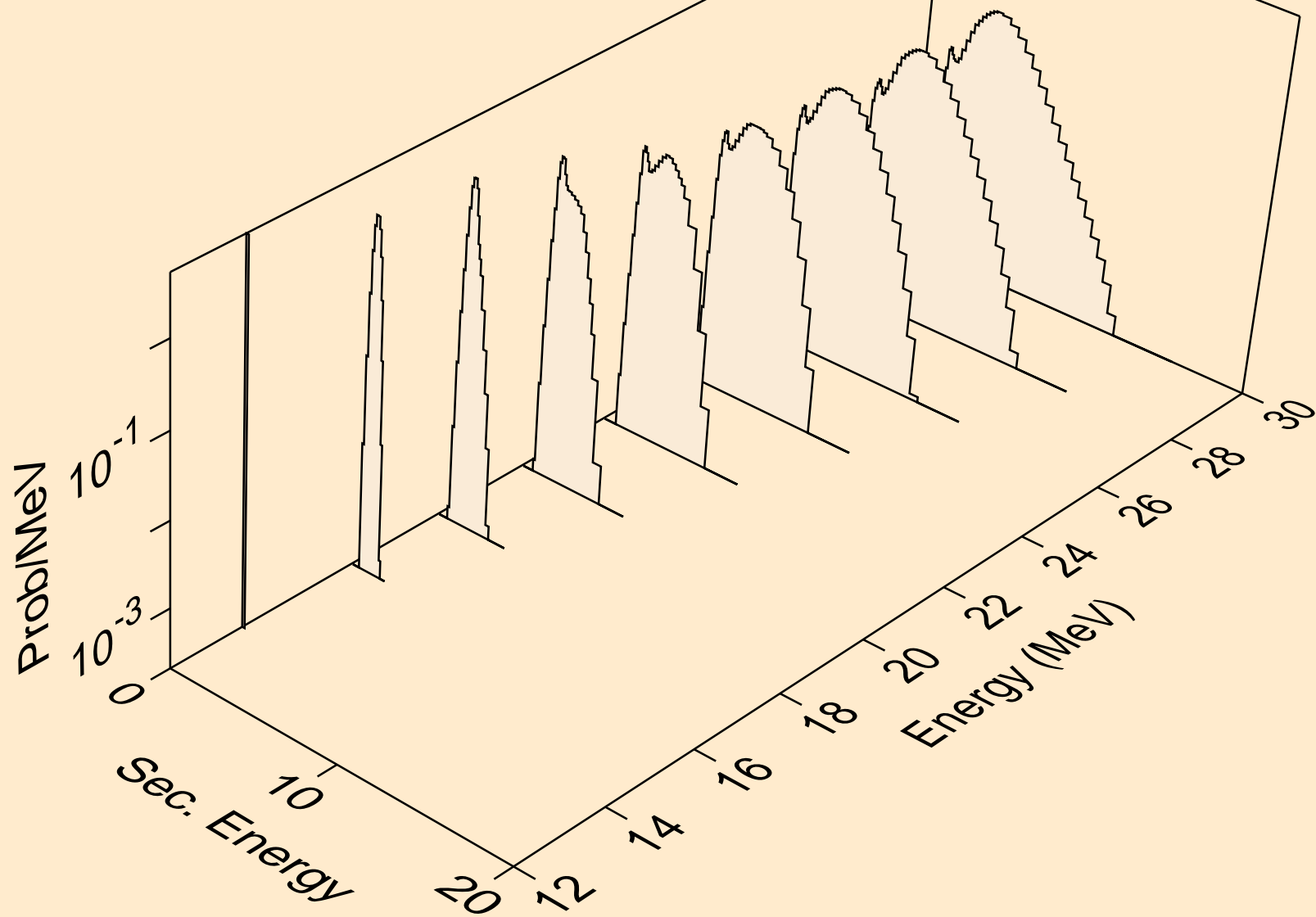
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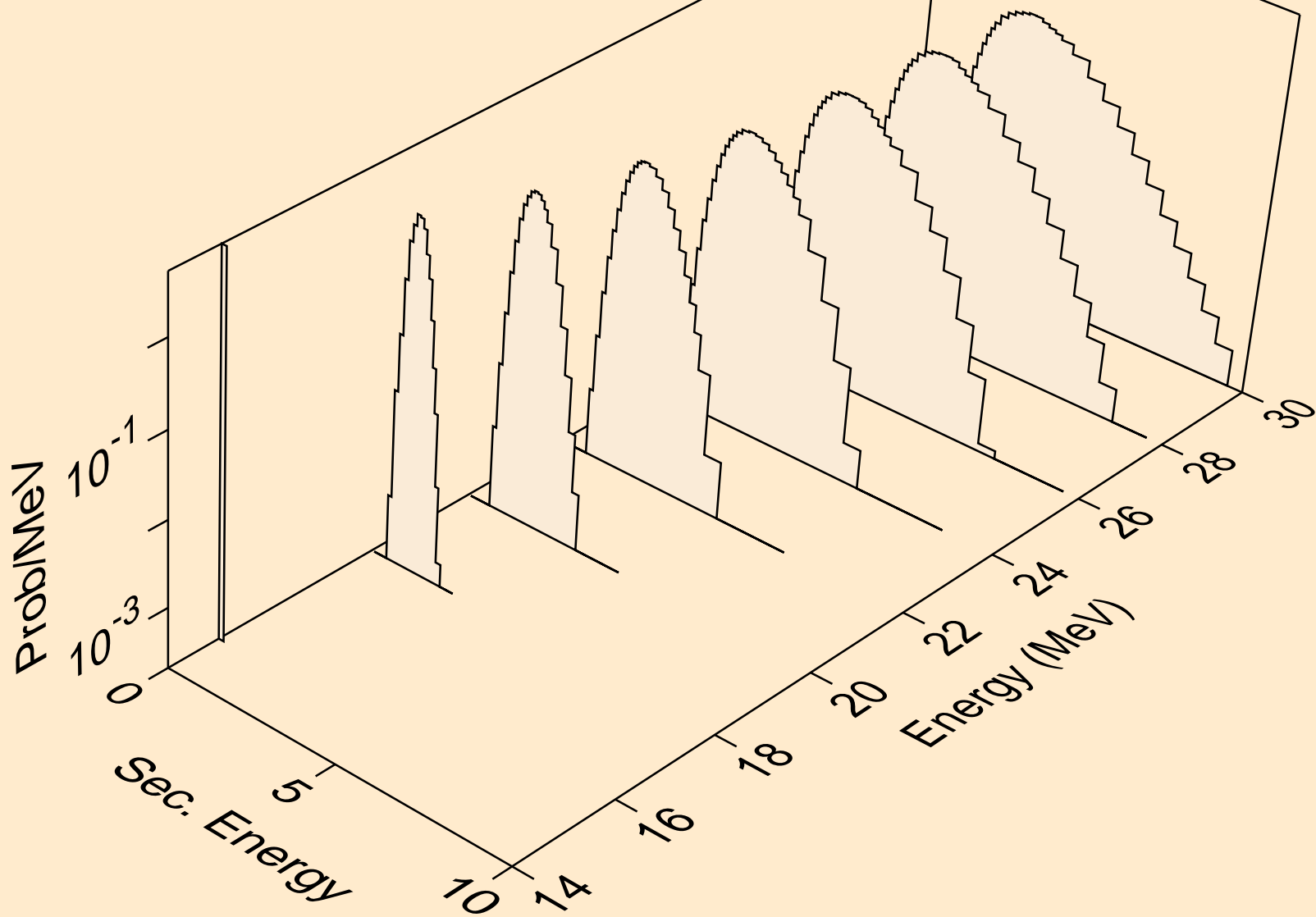
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protons from (n,p)



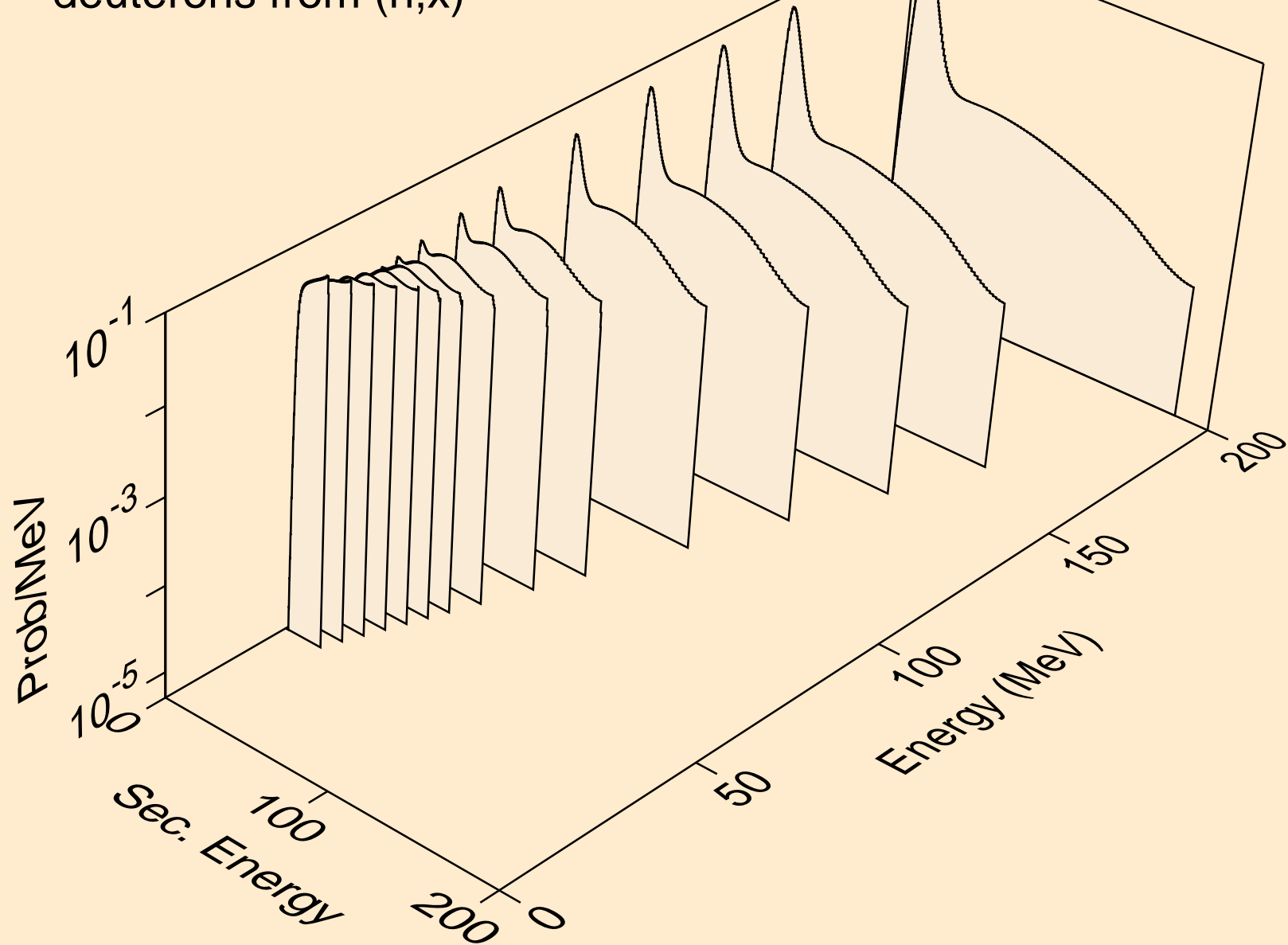
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protons from (n,pd)



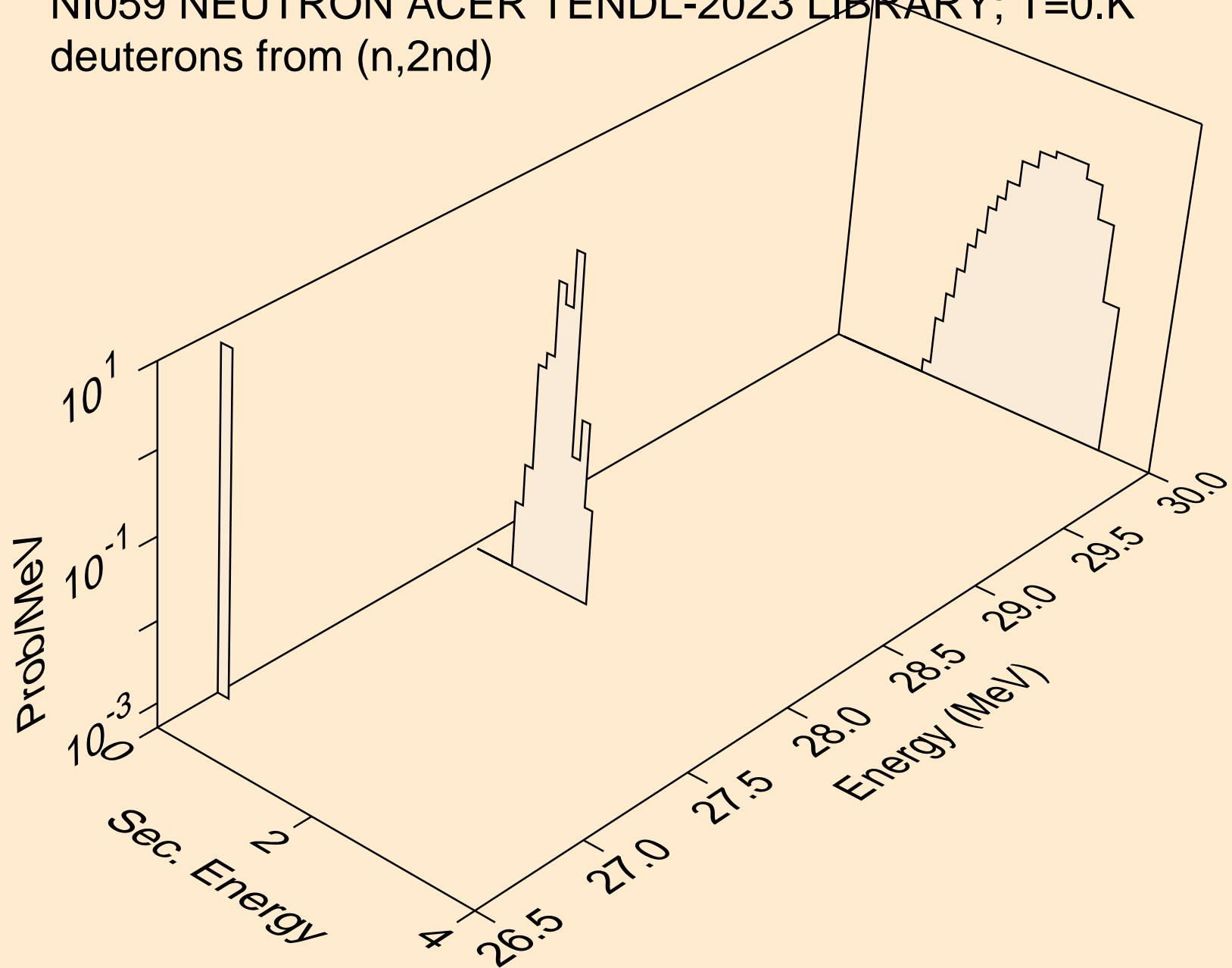
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protons from (n,pt)



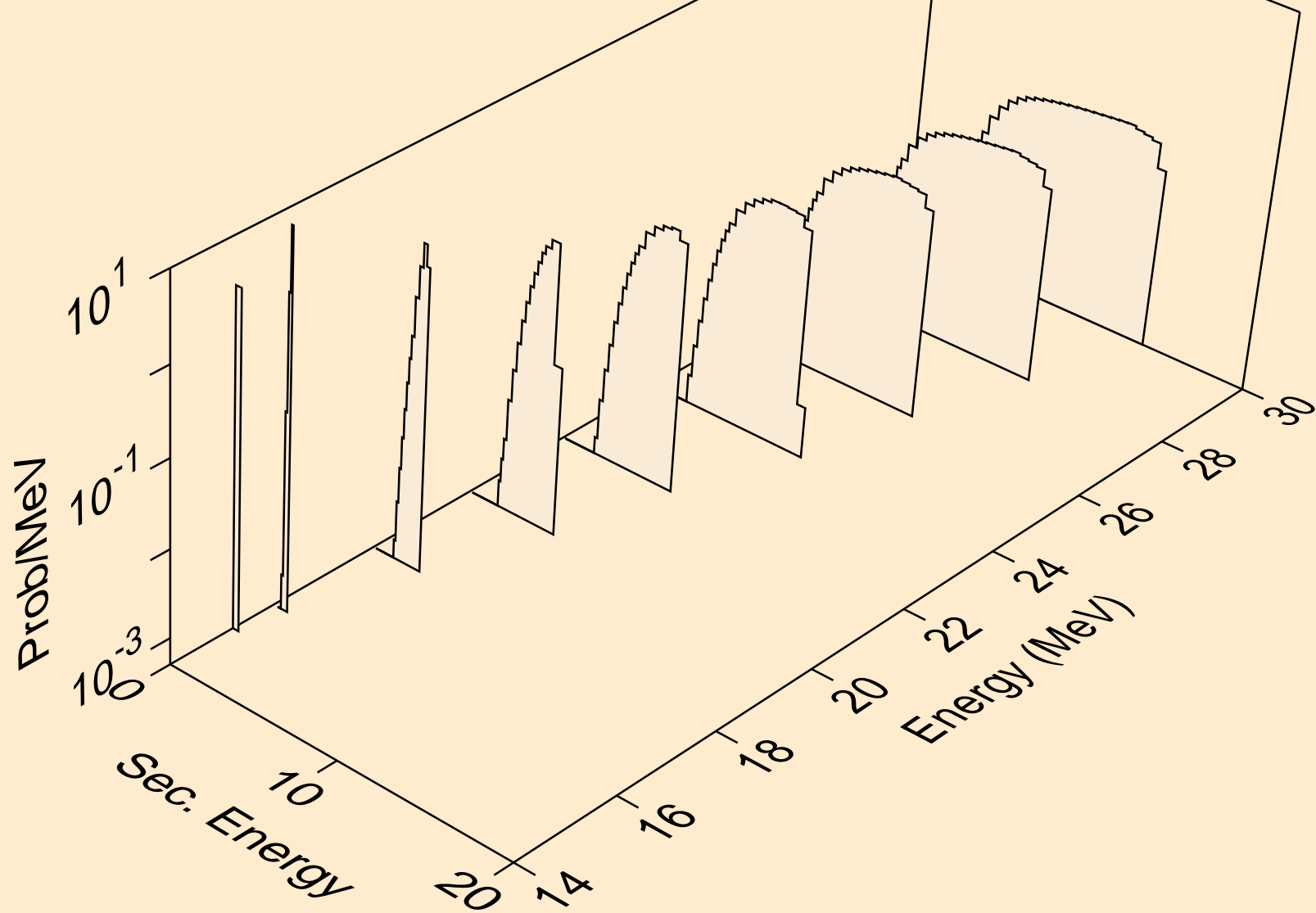
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deuterons from (n,x)



NI059 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
deuterons from (n,2nd)

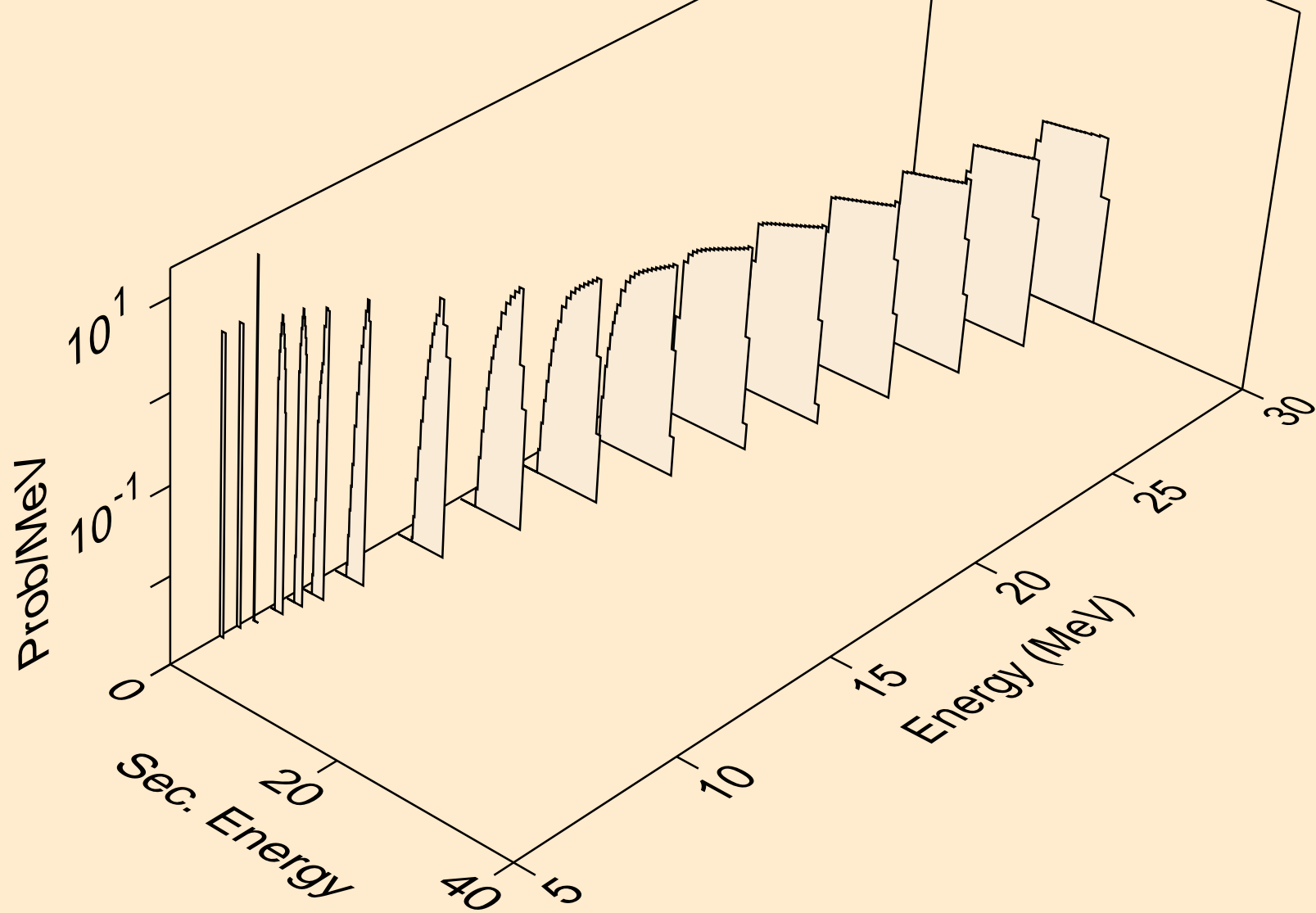


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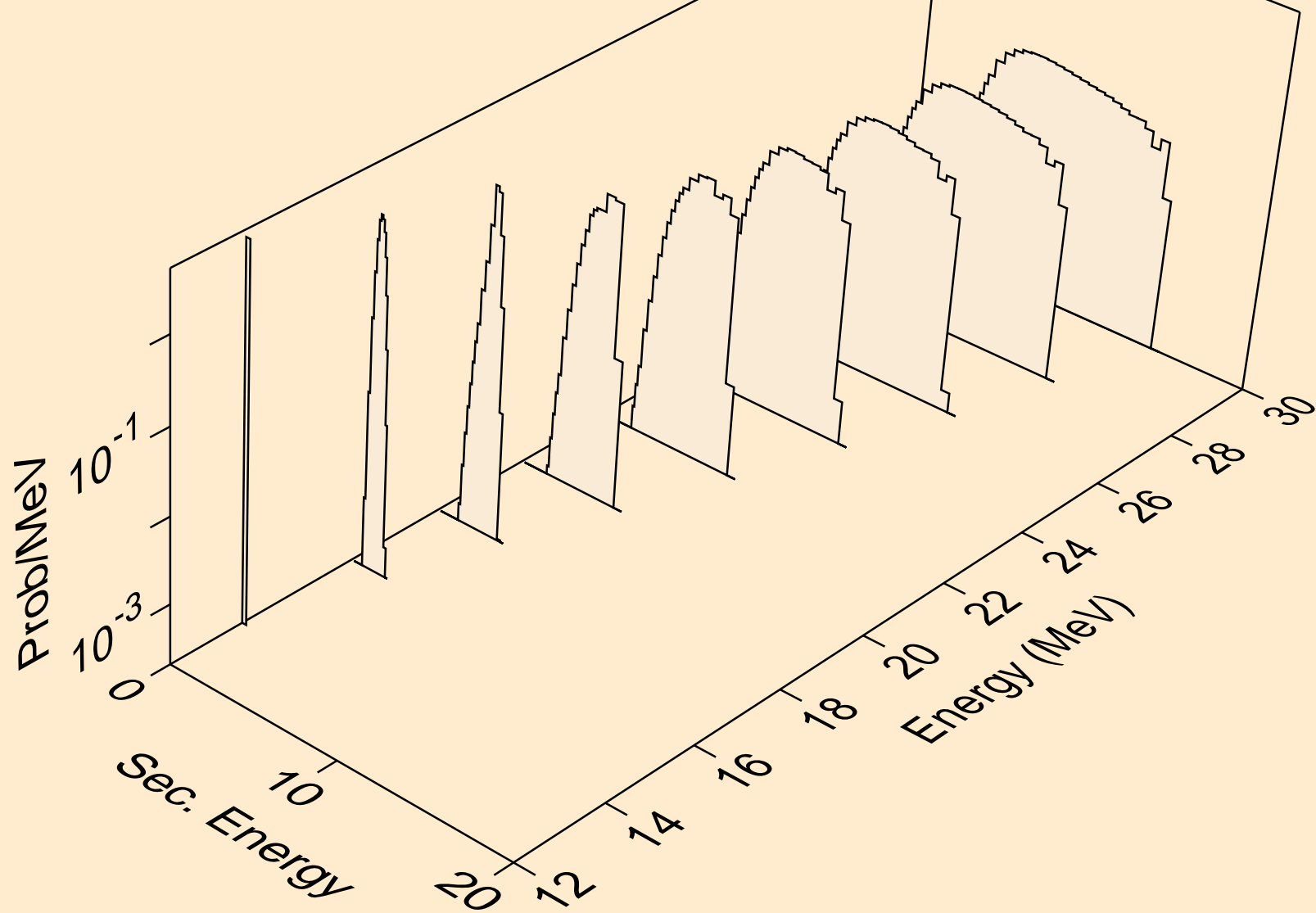




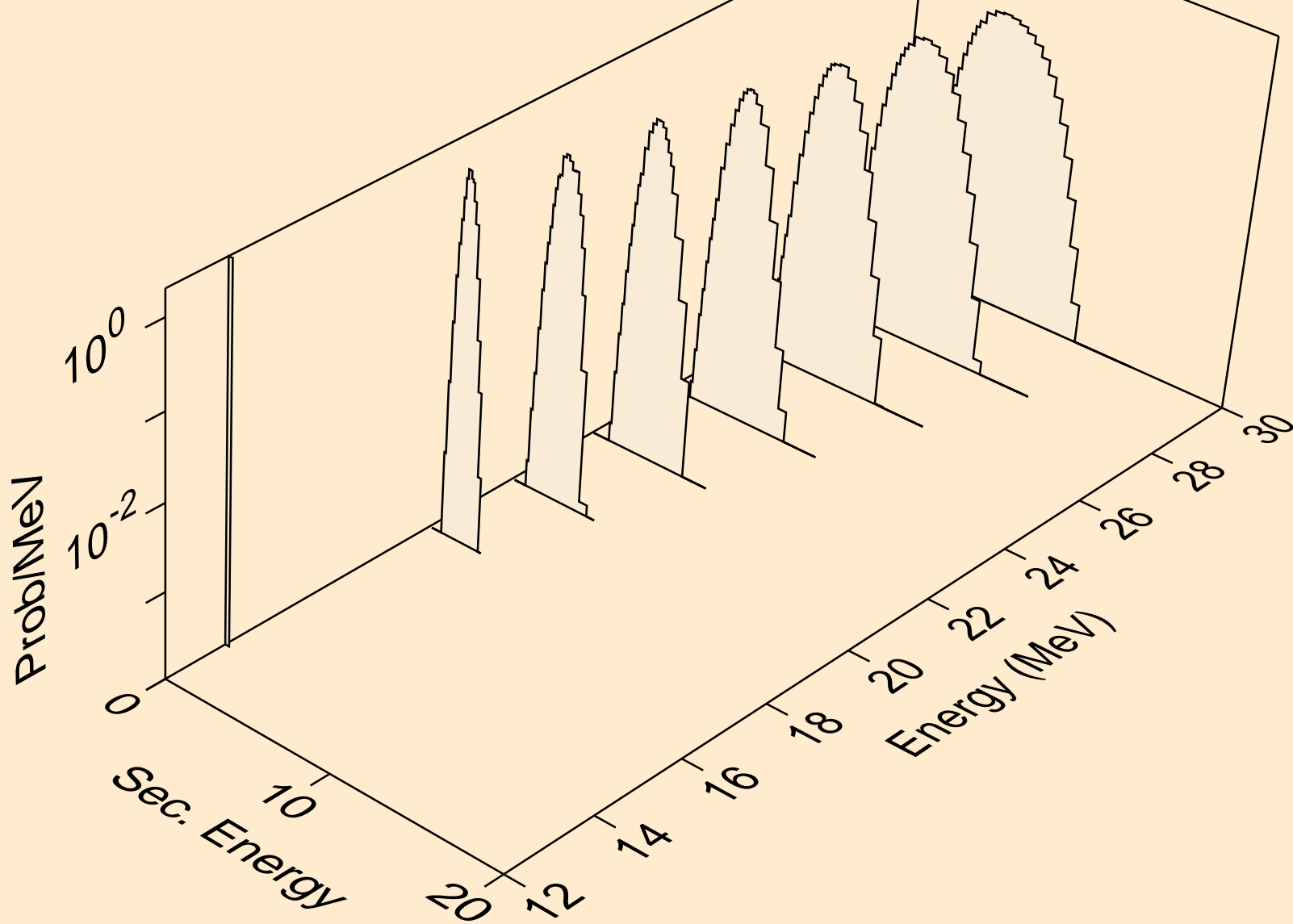
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deuterons from (n,d)



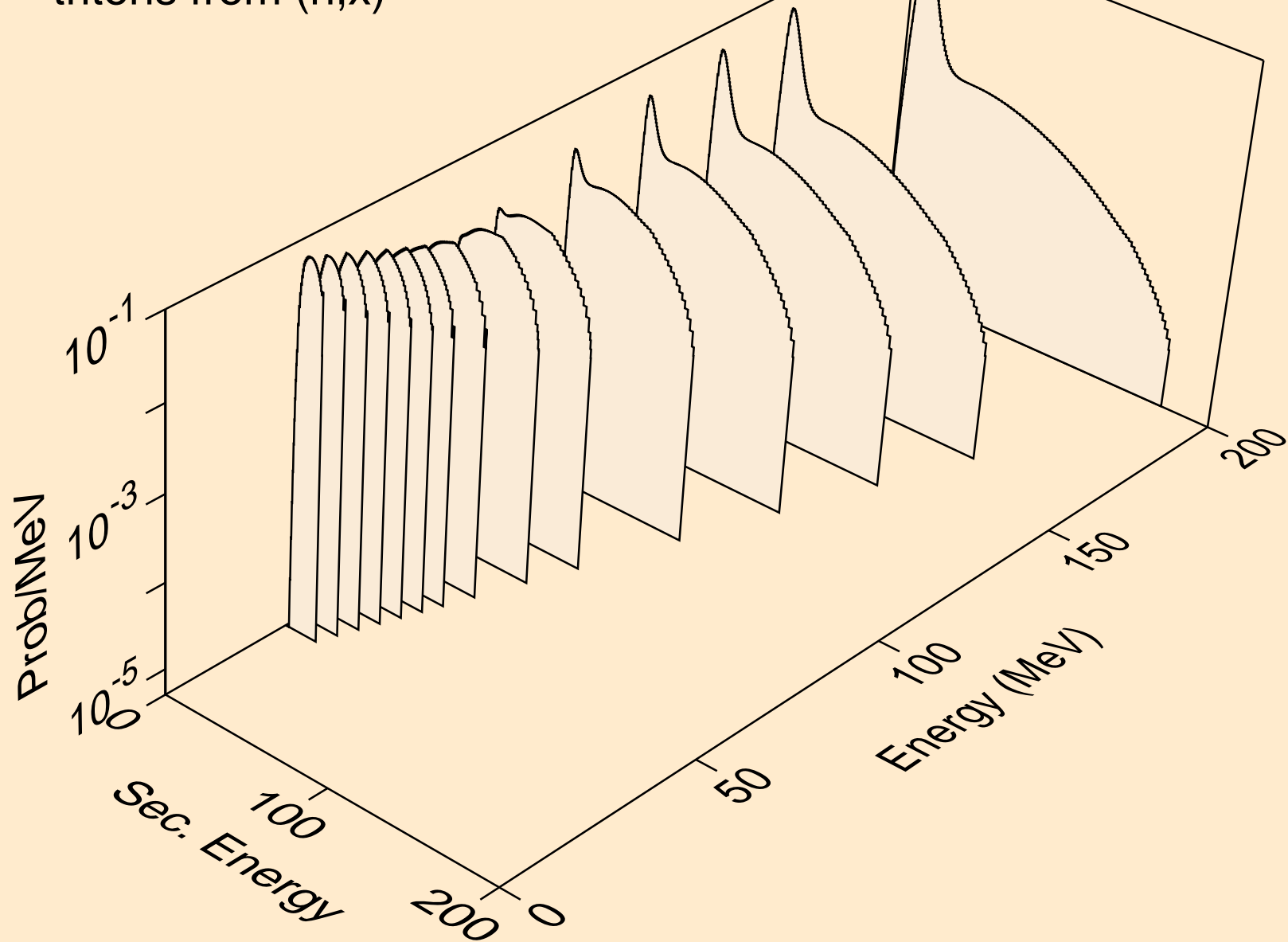
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deuterons from (n,pd)



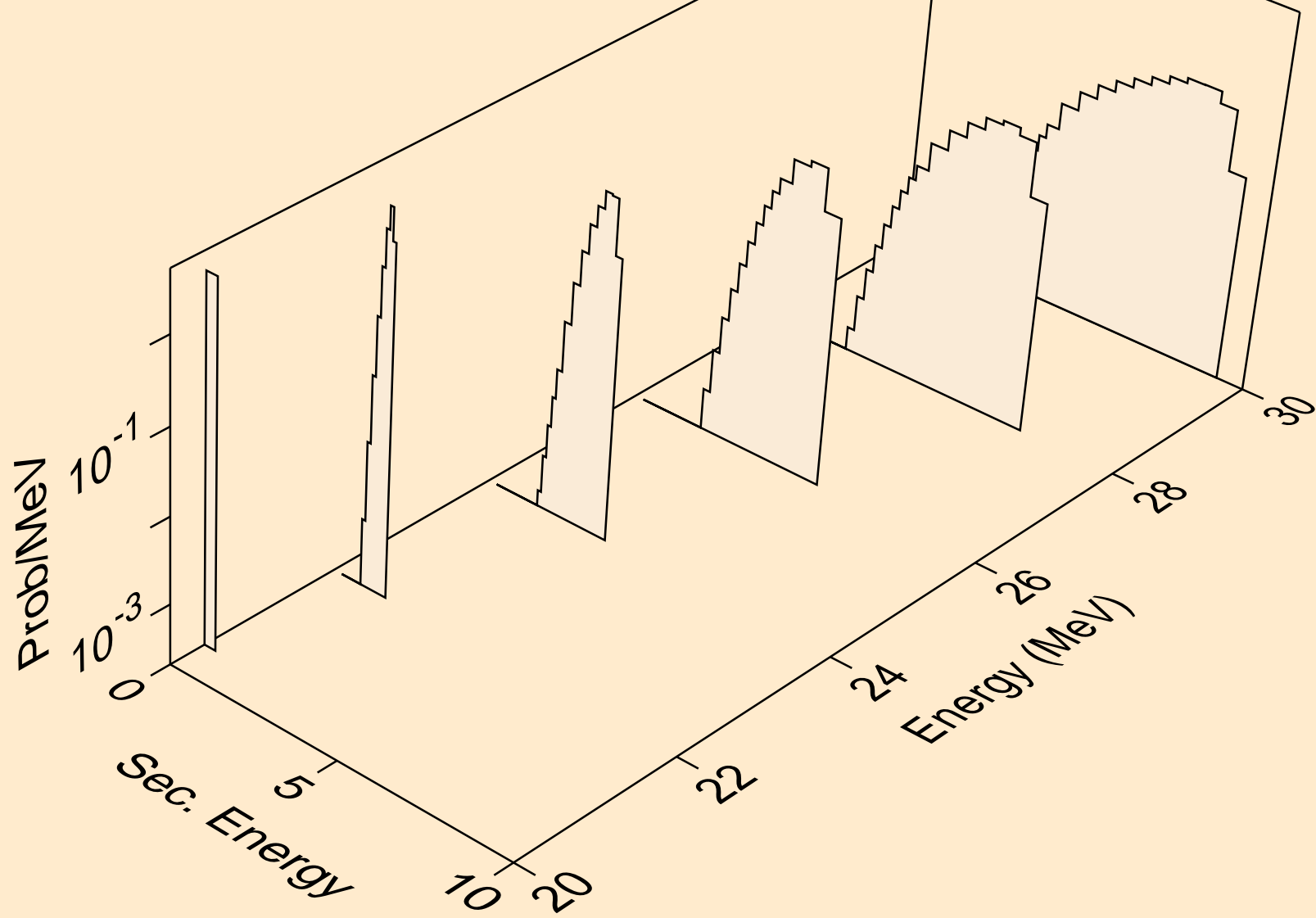
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deuterons from (n,da)



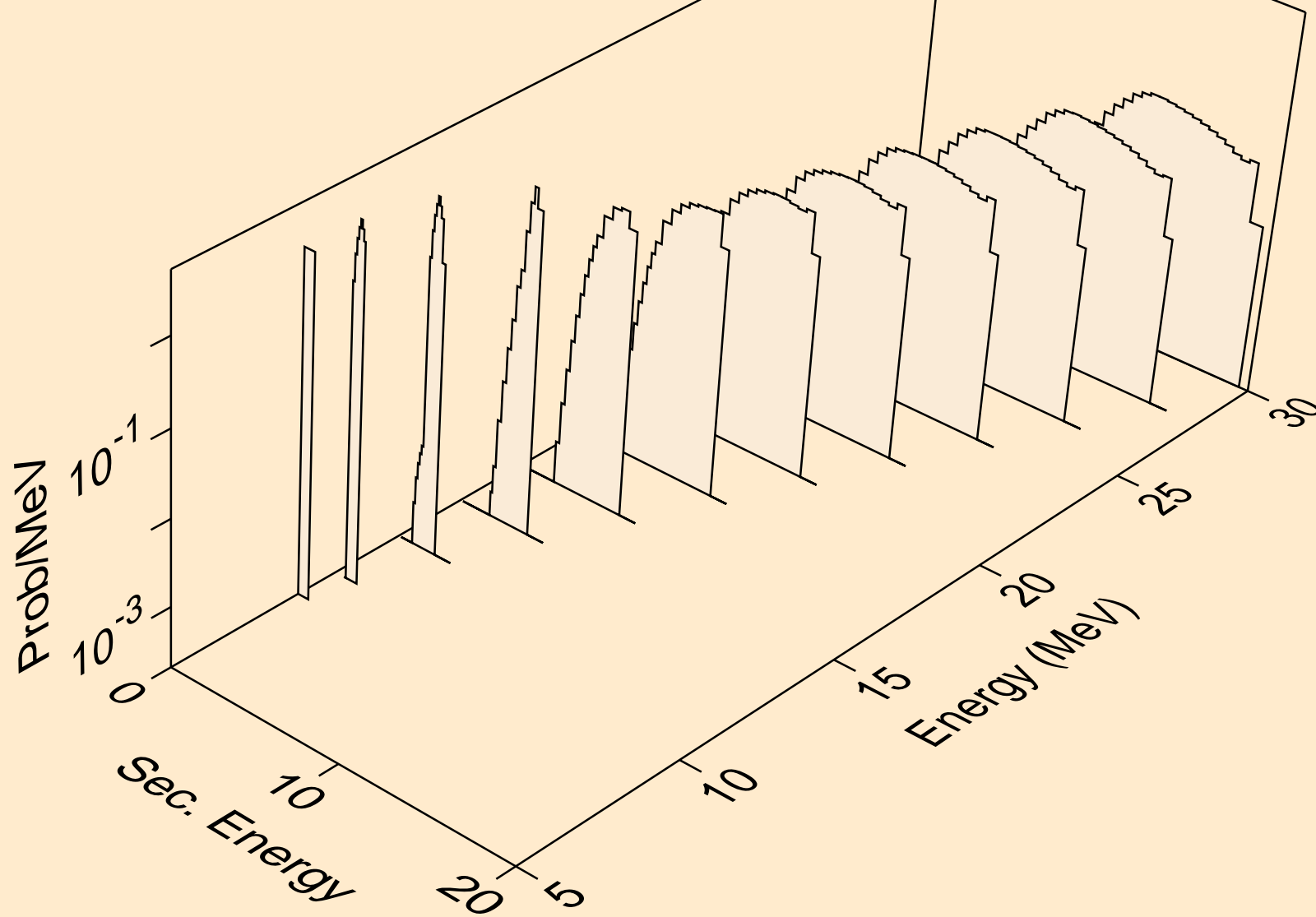
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tritons from (n,x)



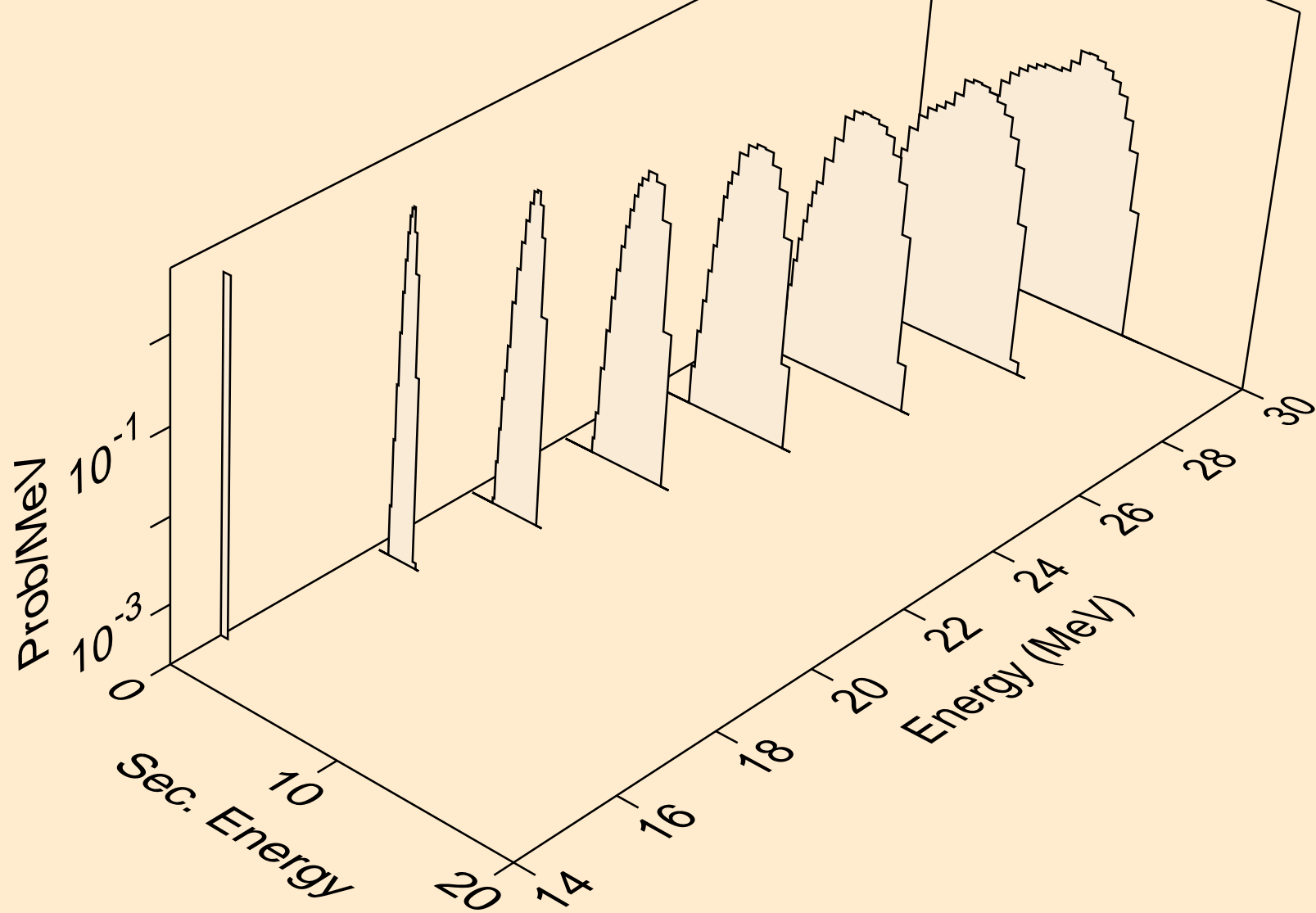
NI059 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
tritons from (n,n\*)t



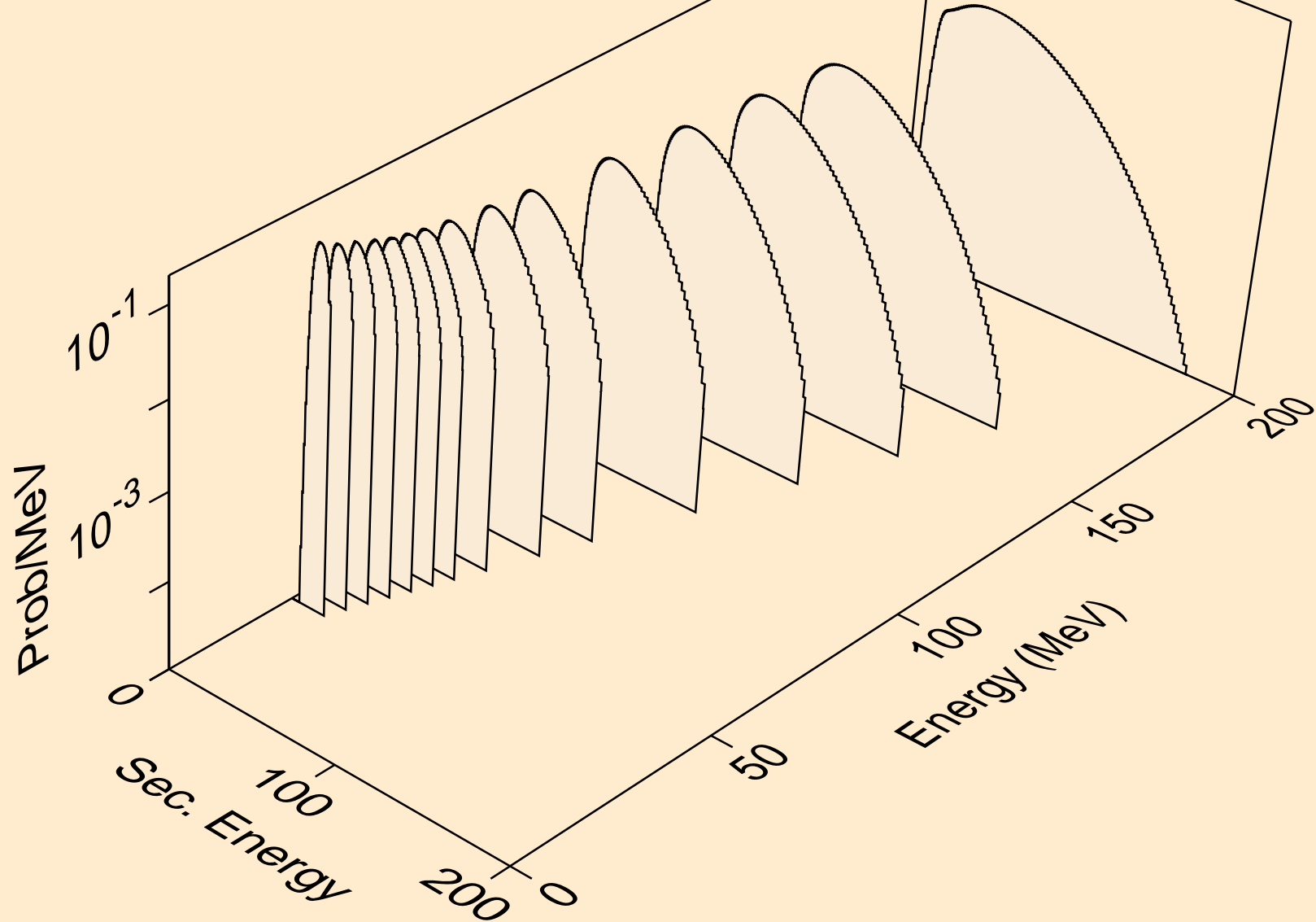
NI059 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
tritons from (n,t)



NI059 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
tritons from (n,pt)

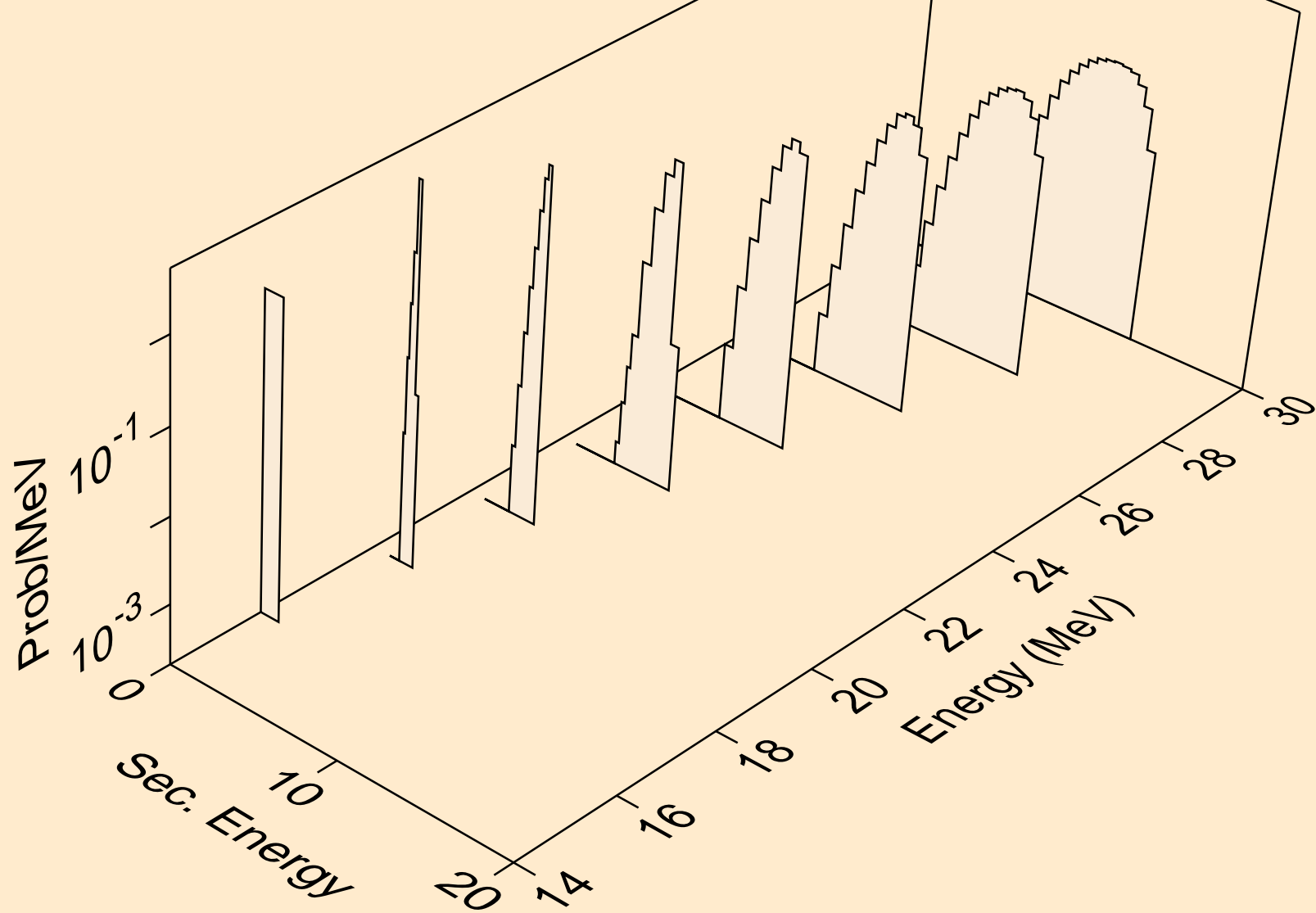


NI059 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
he3s from (n,x)

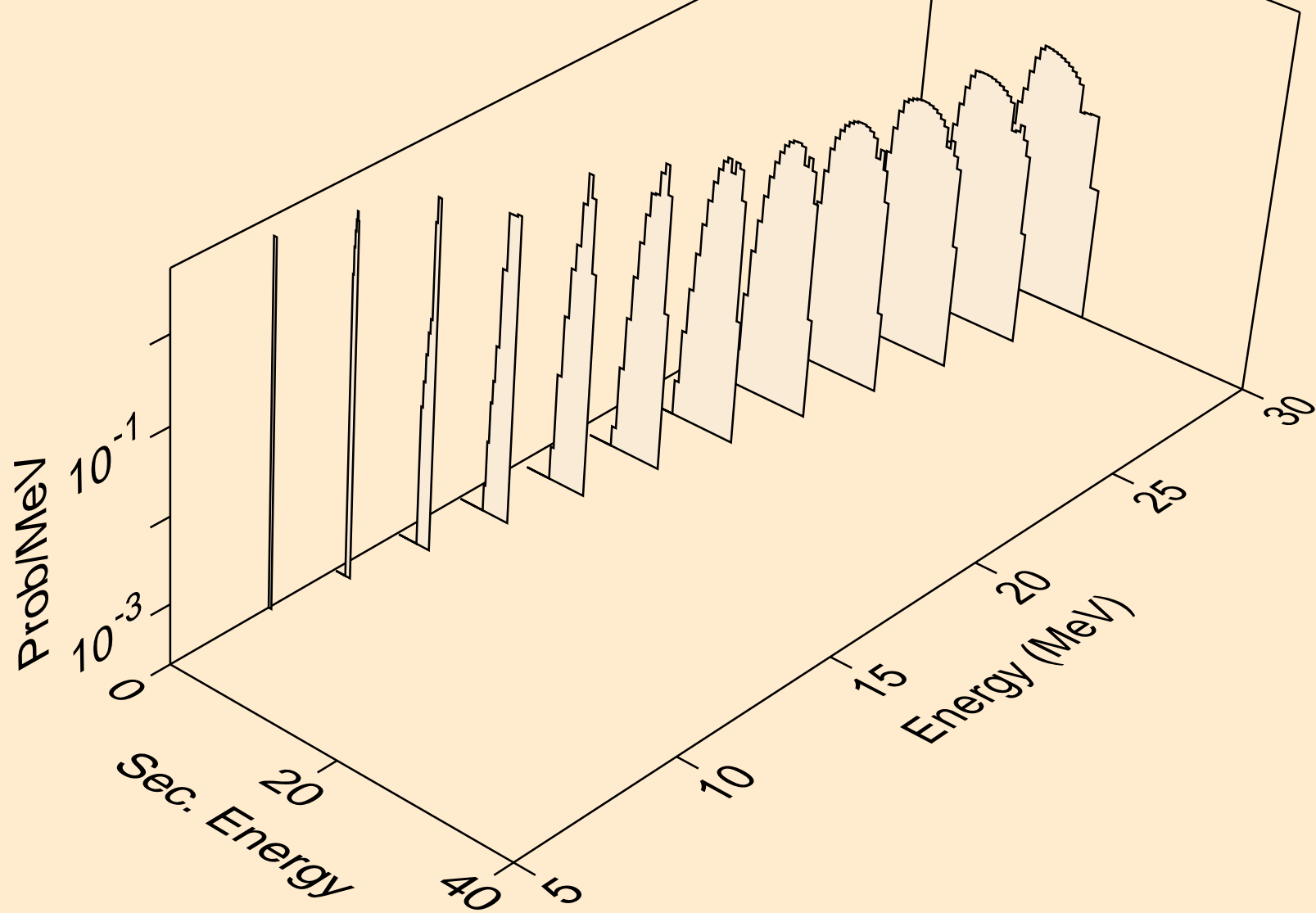




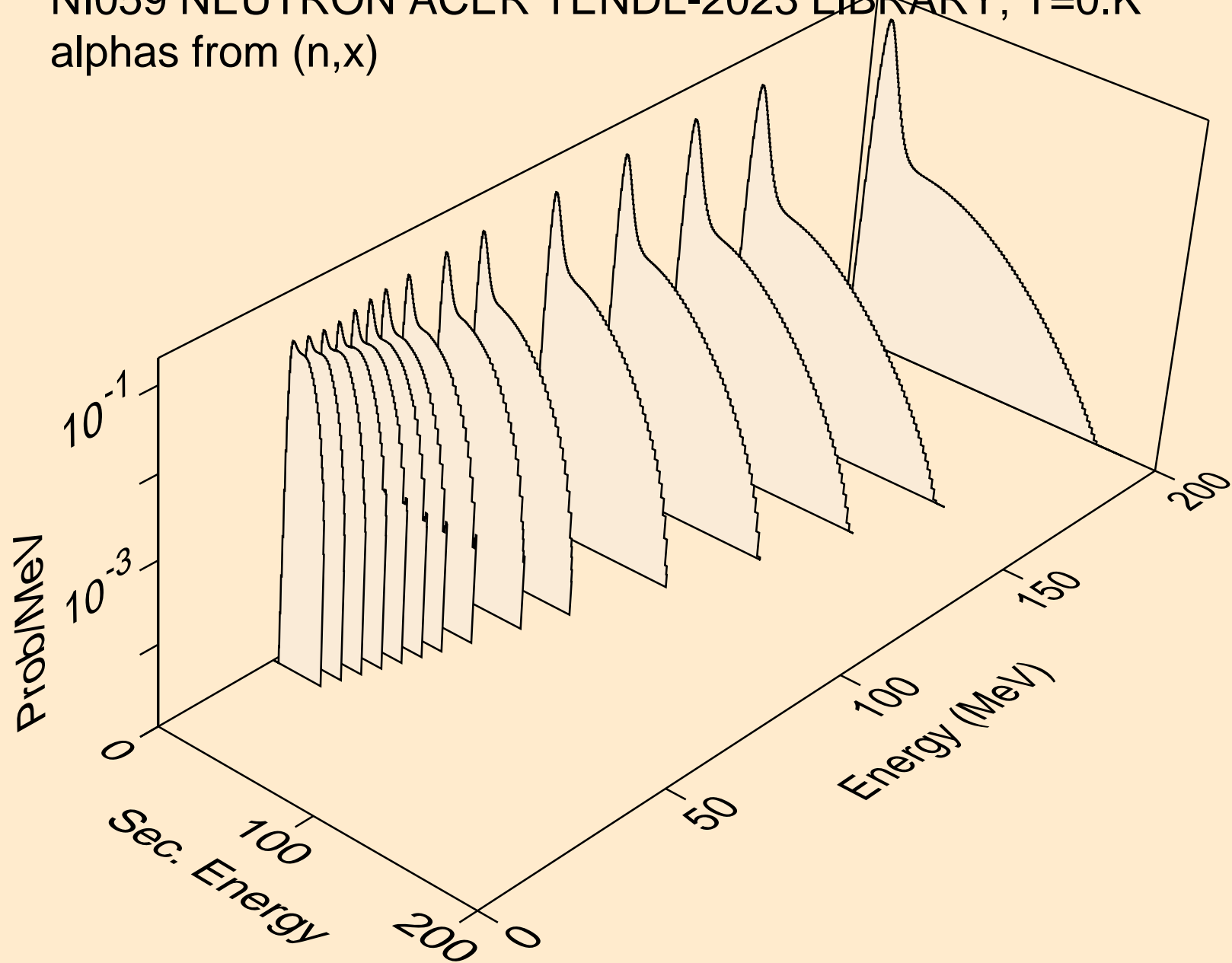
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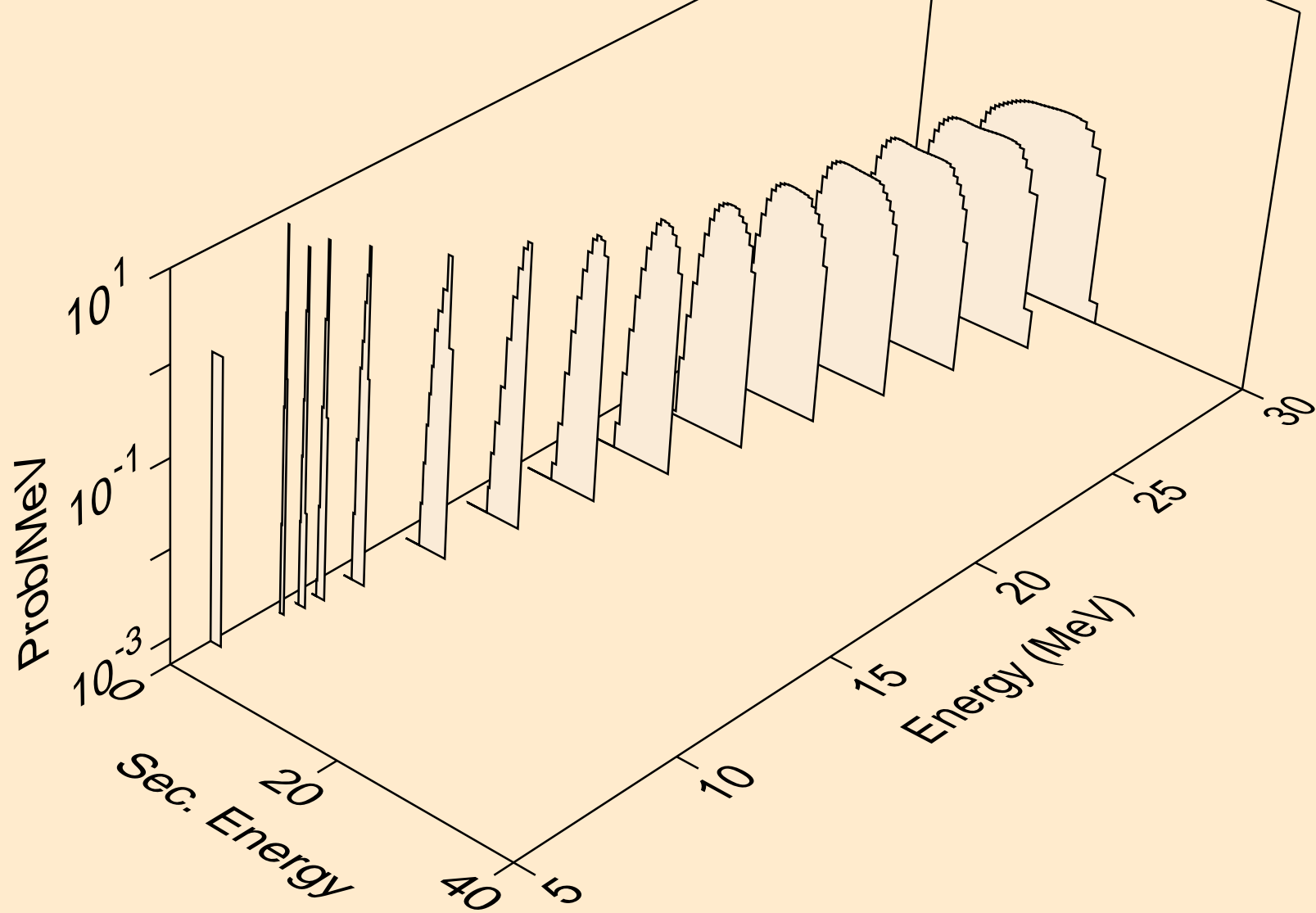
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he3s from (n,he3)



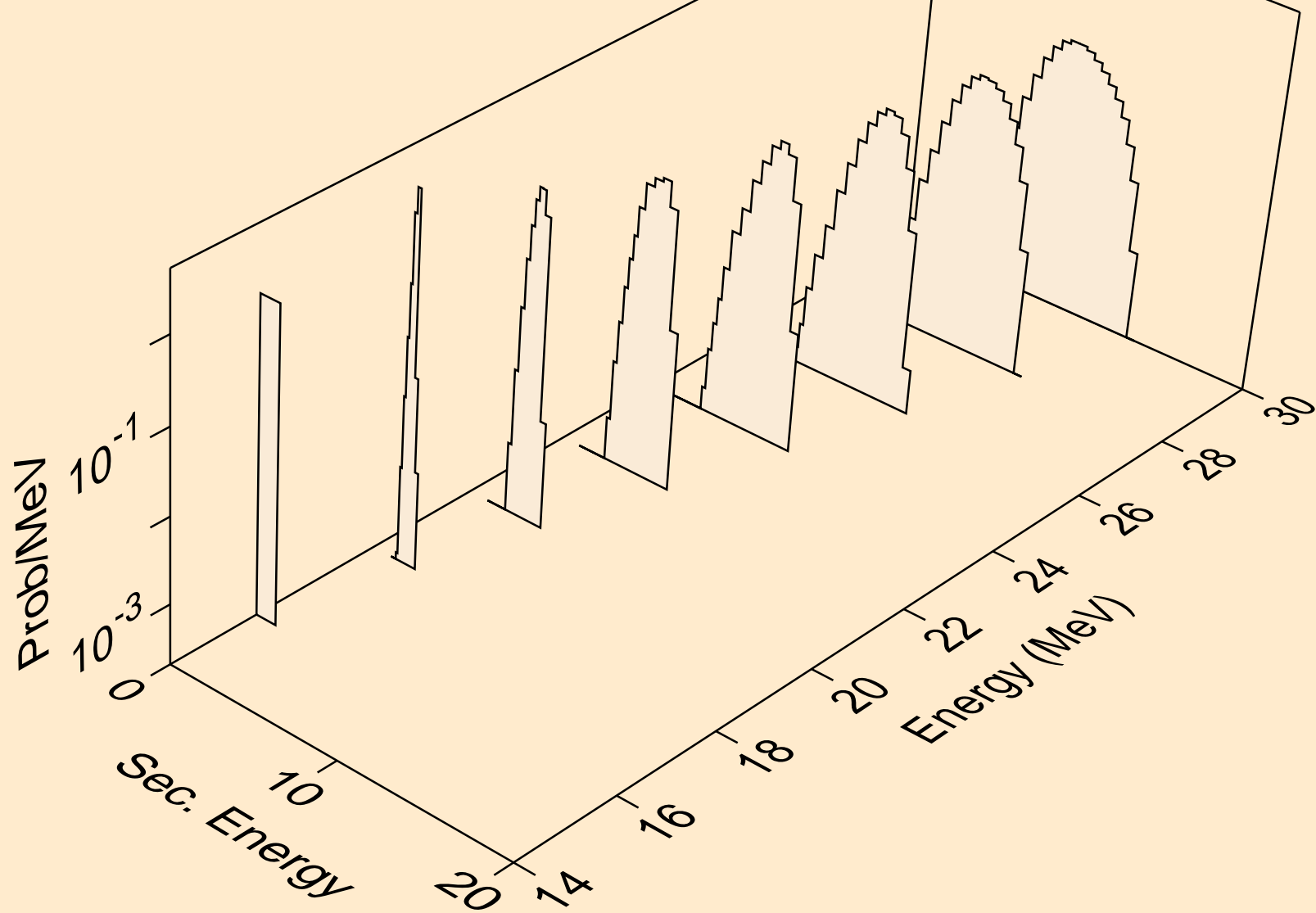
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alphas from (n,x)



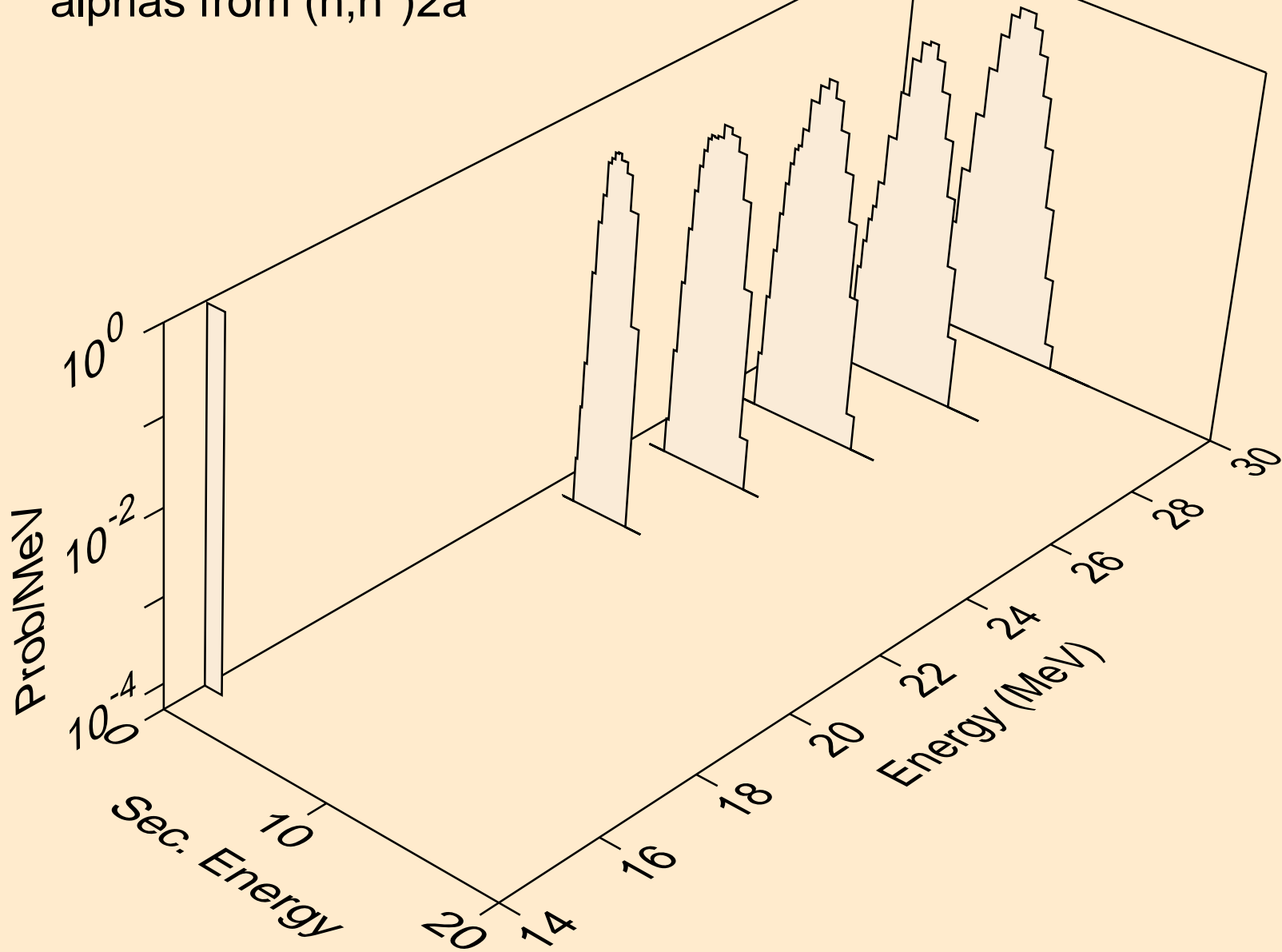
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alphas from (n,n\*)a



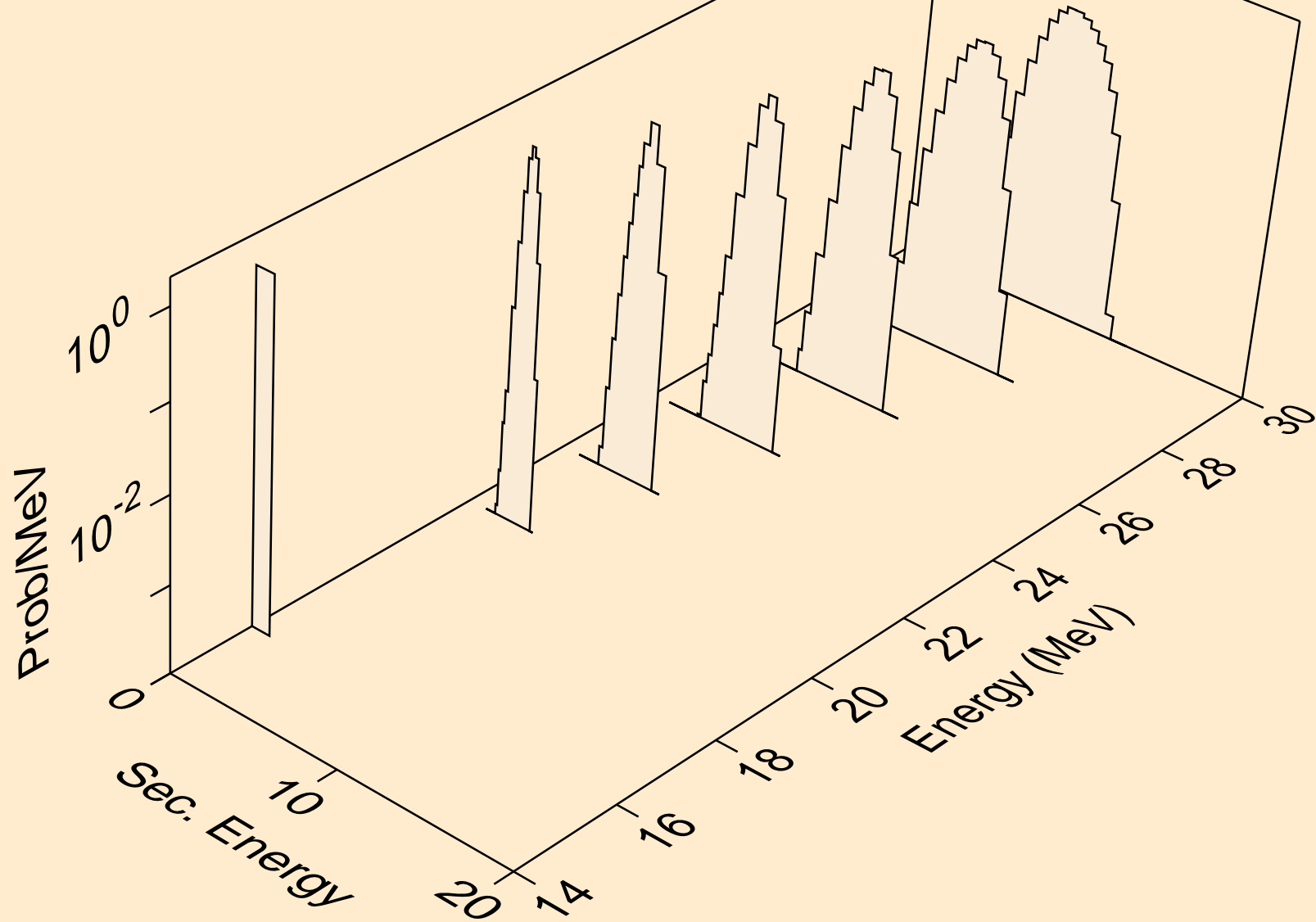
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alphas from (n,2n)a



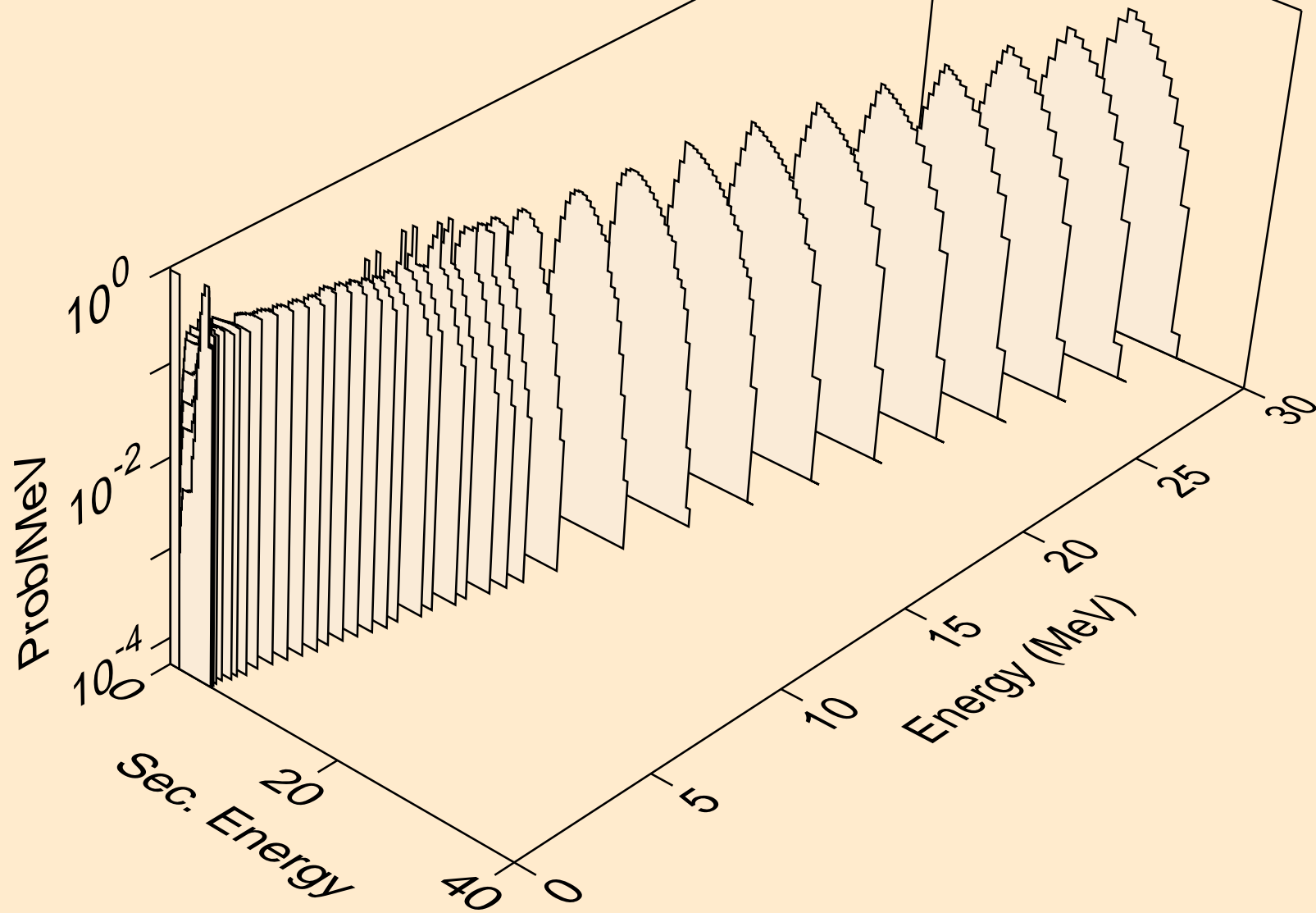
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alphas from (n,n\*)2a



NI059 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,npa)

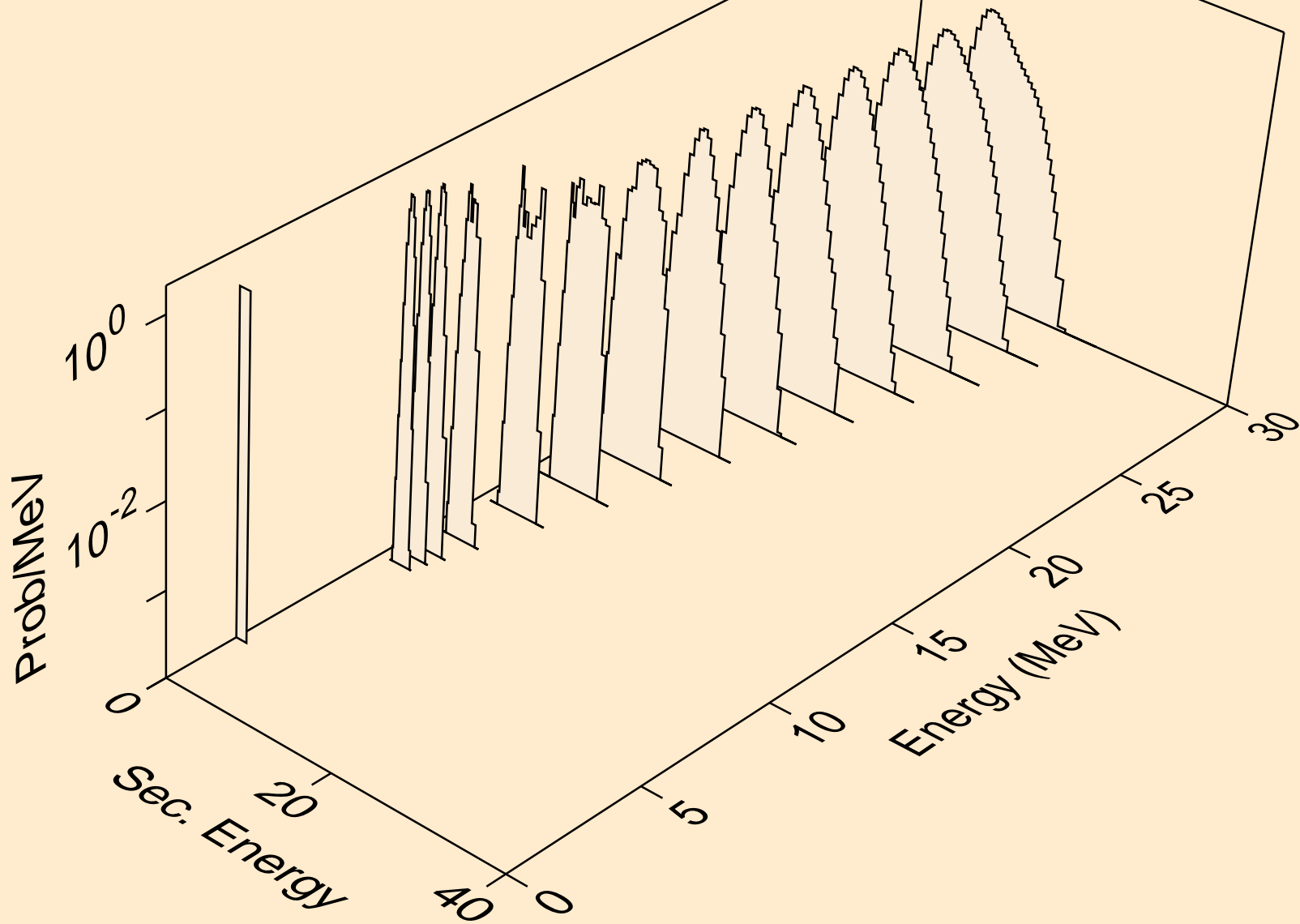


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alphas from (n,a)

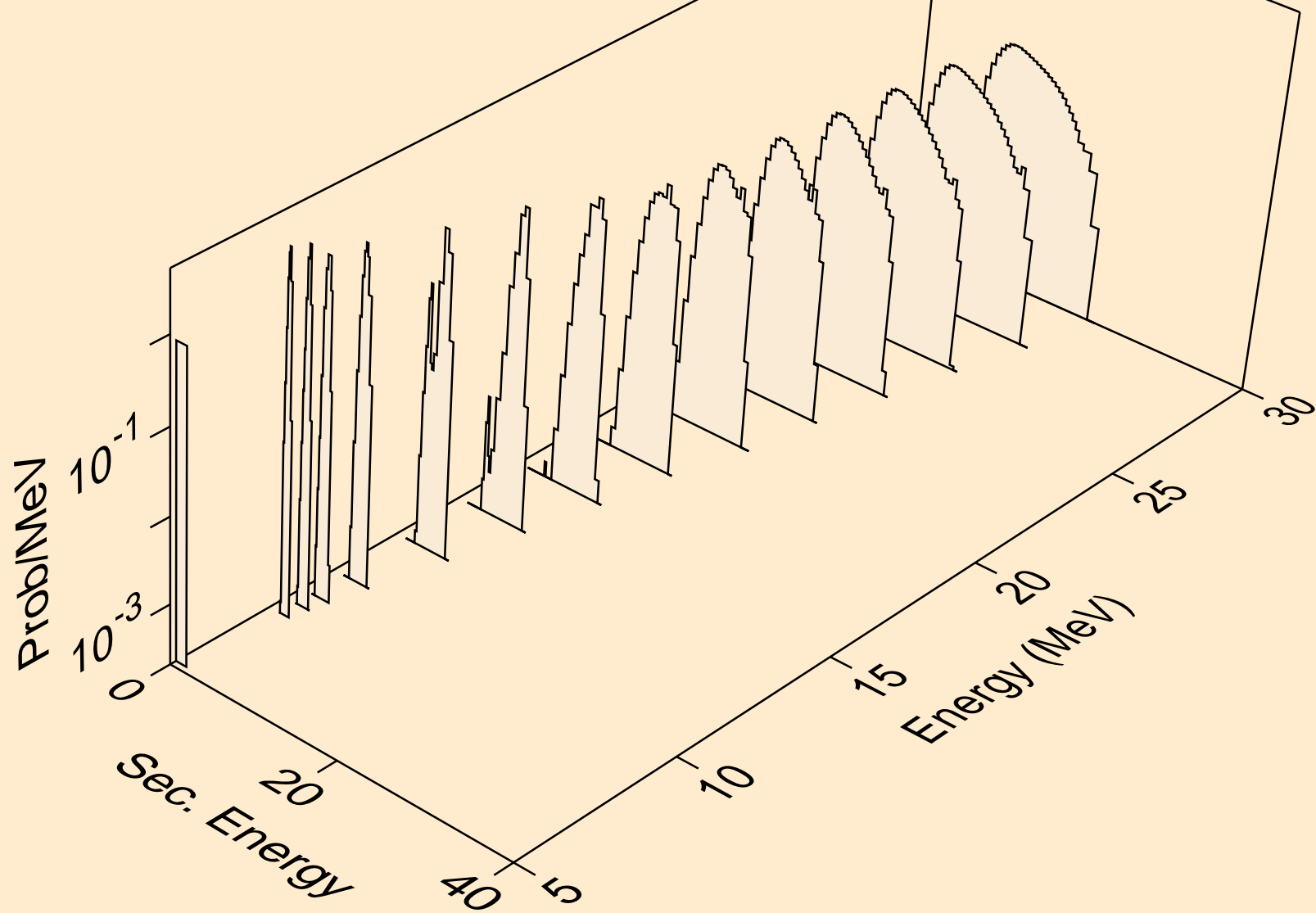




NI059 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,2a)



NI059 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,pa)



NI059 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,da)

