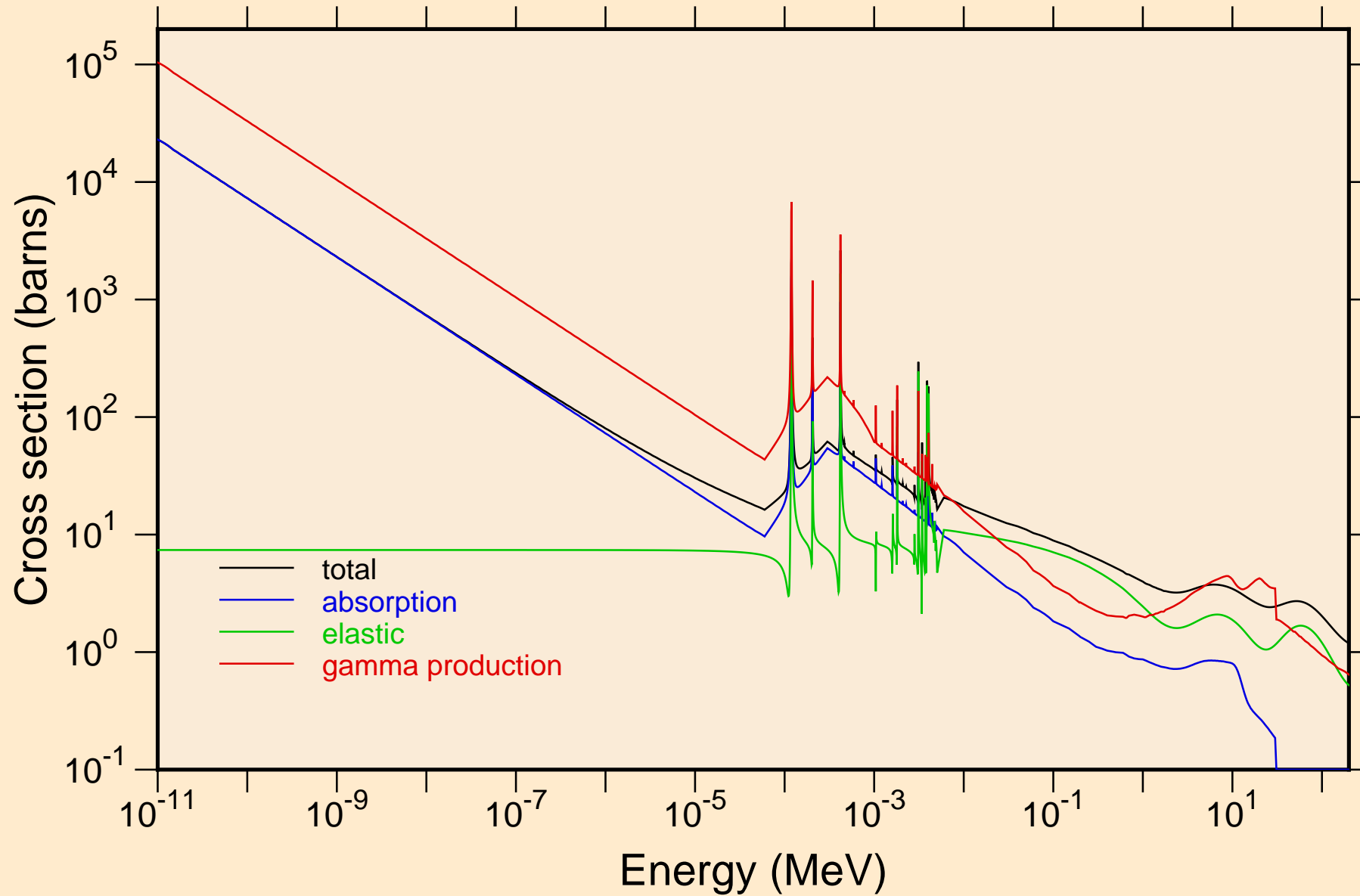
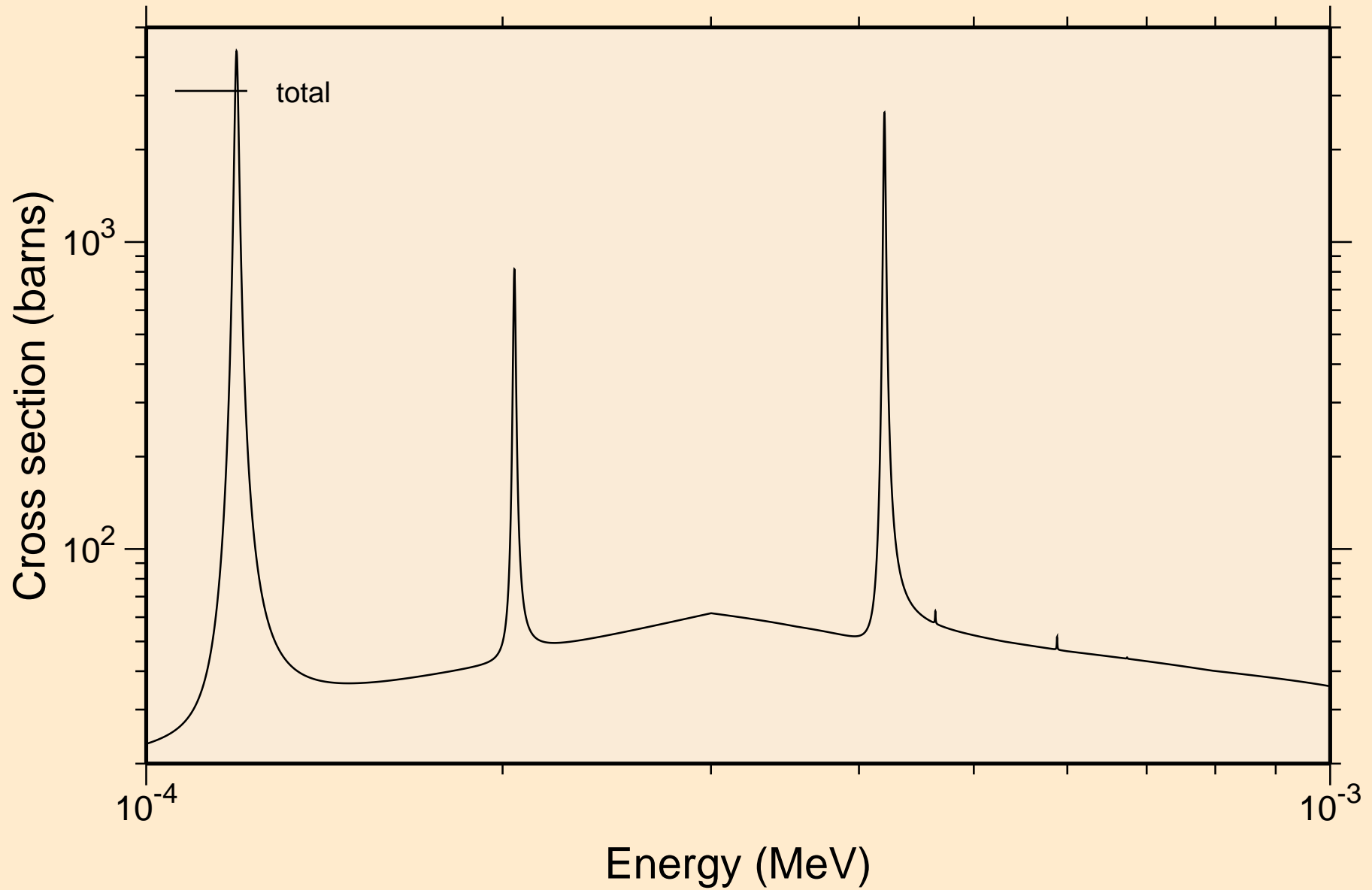


# ZN063 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

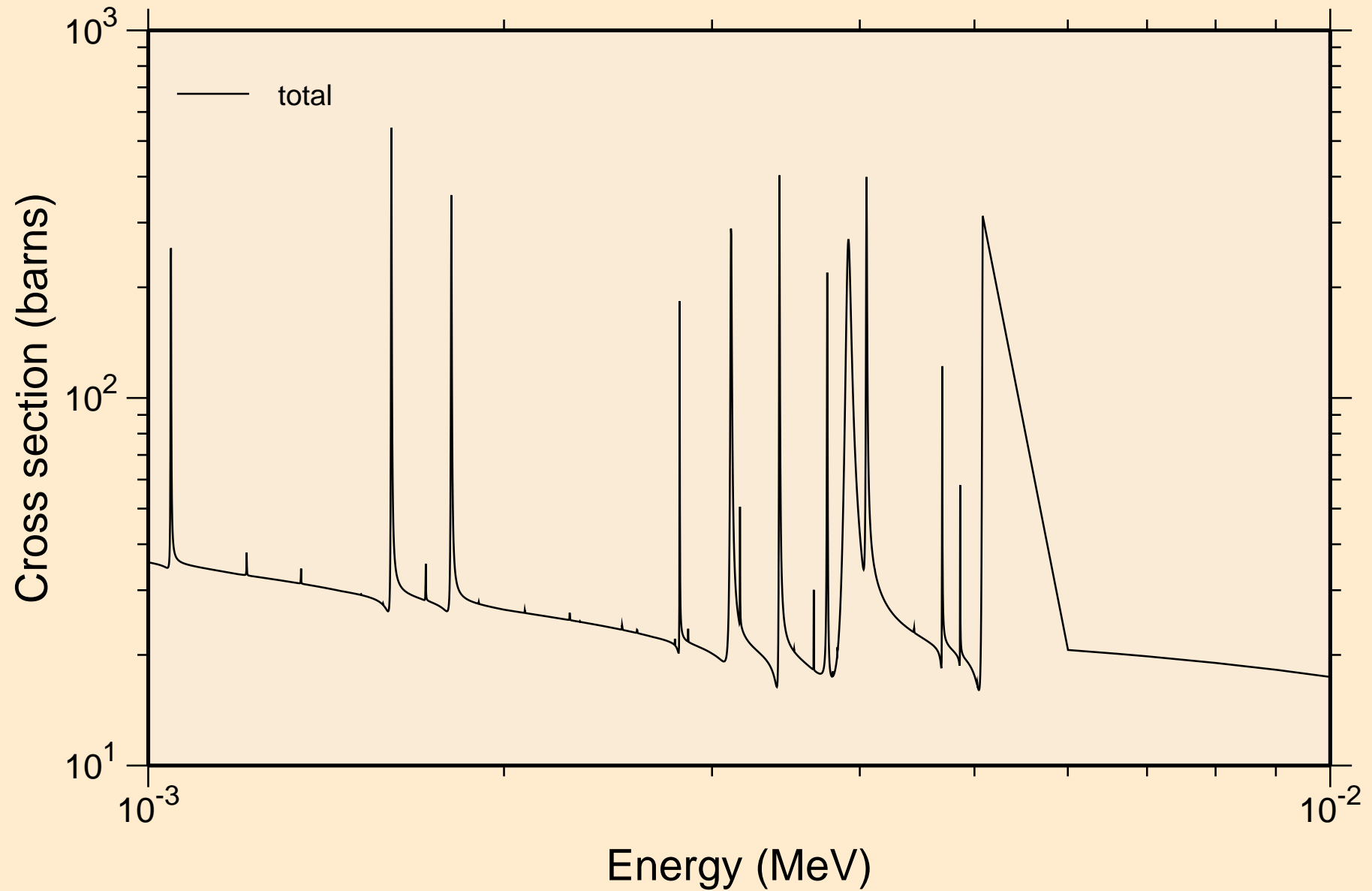
## Principal cross sections



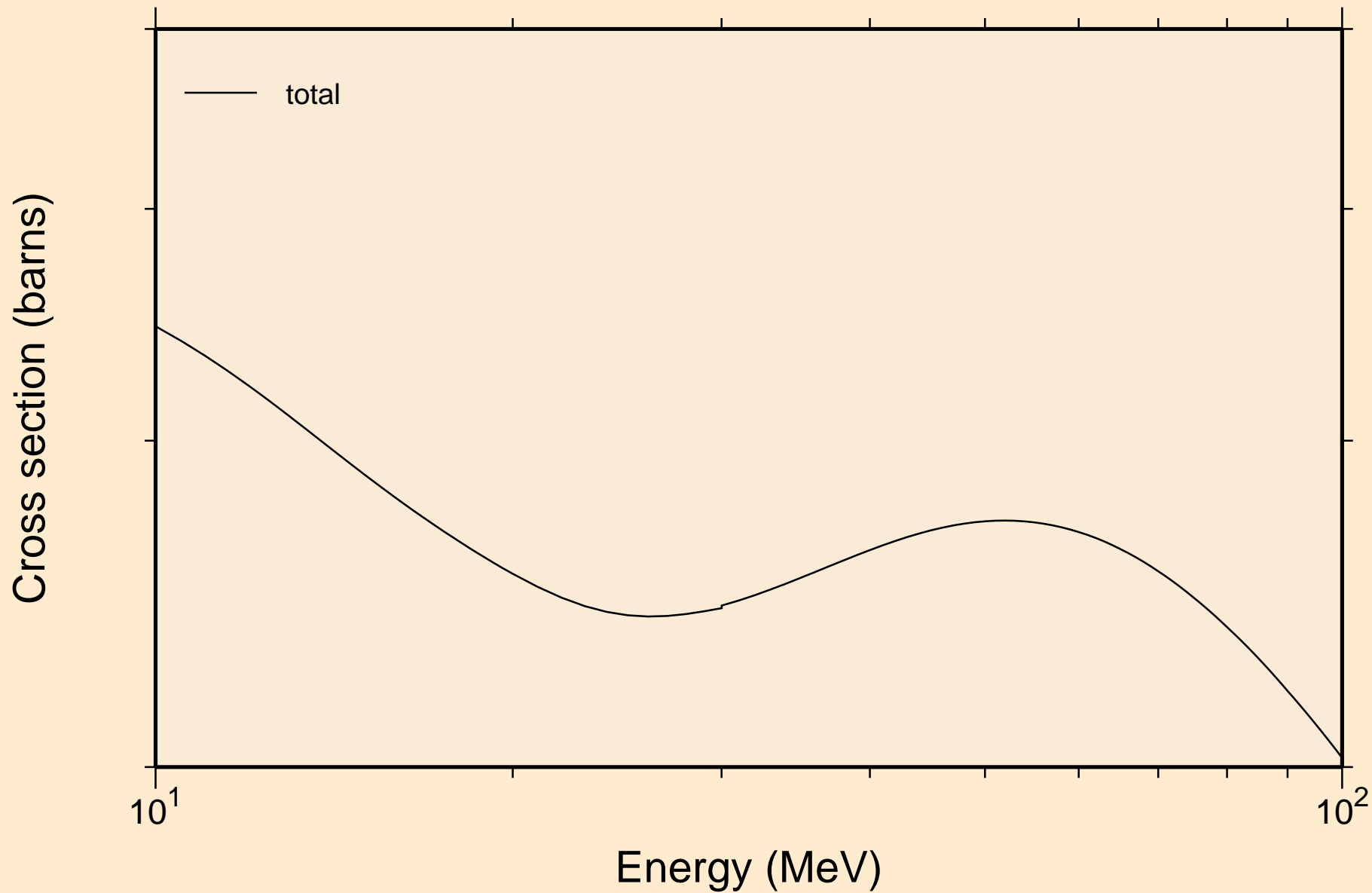
ZN063 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
resonance total cross section



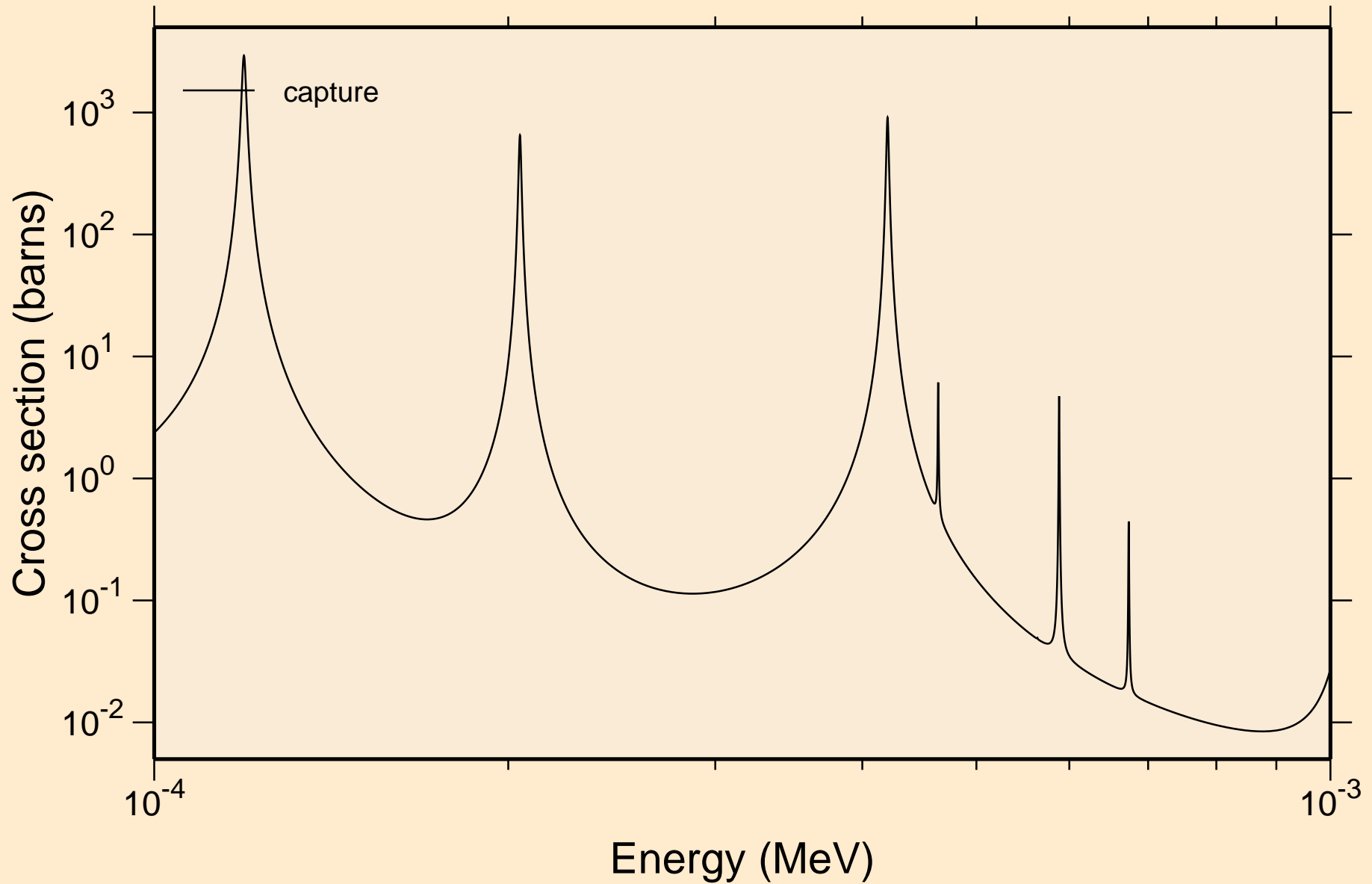
ZN063 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
resonance total cross section



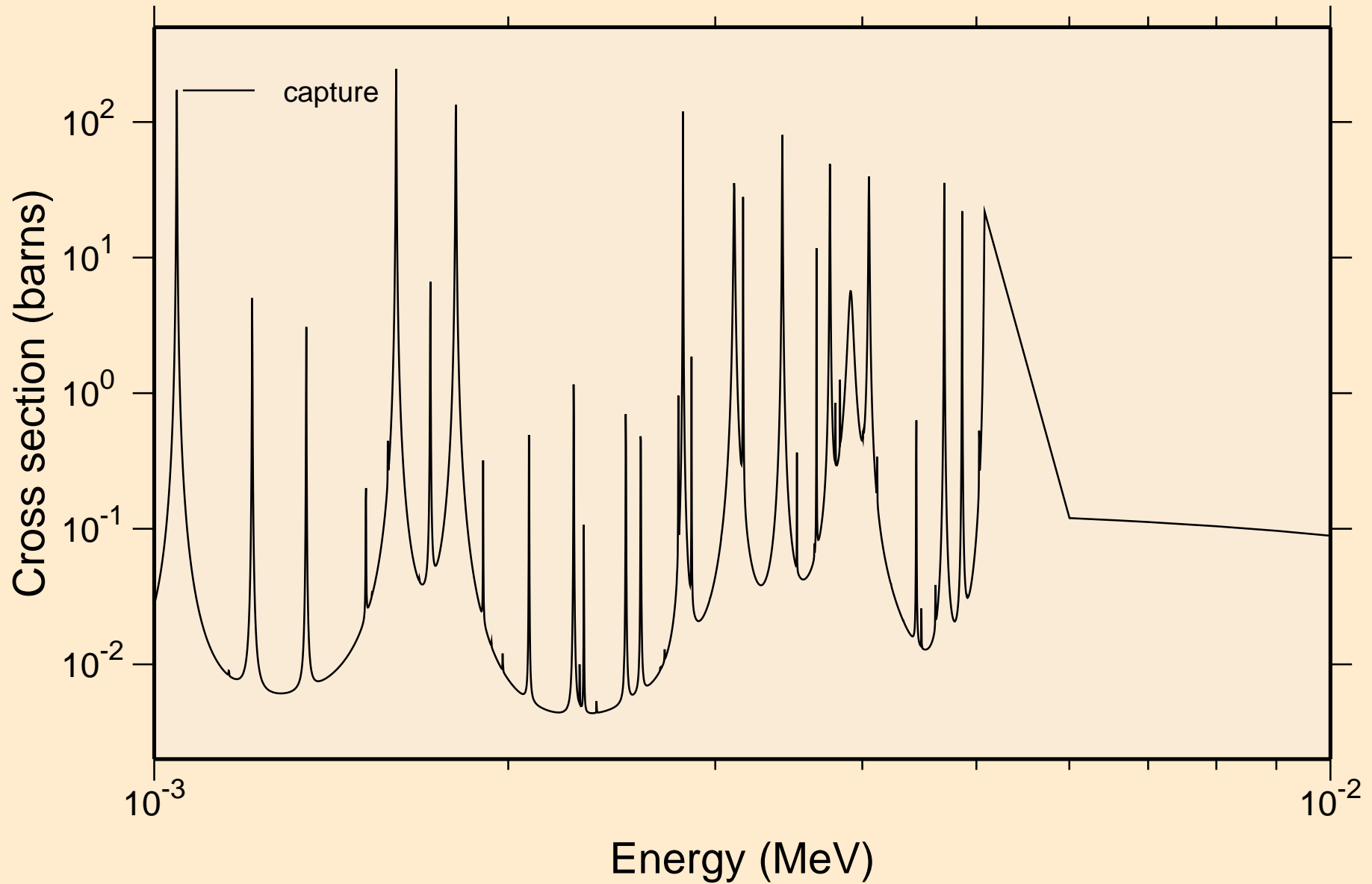
ZN063 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
resonance total cross section



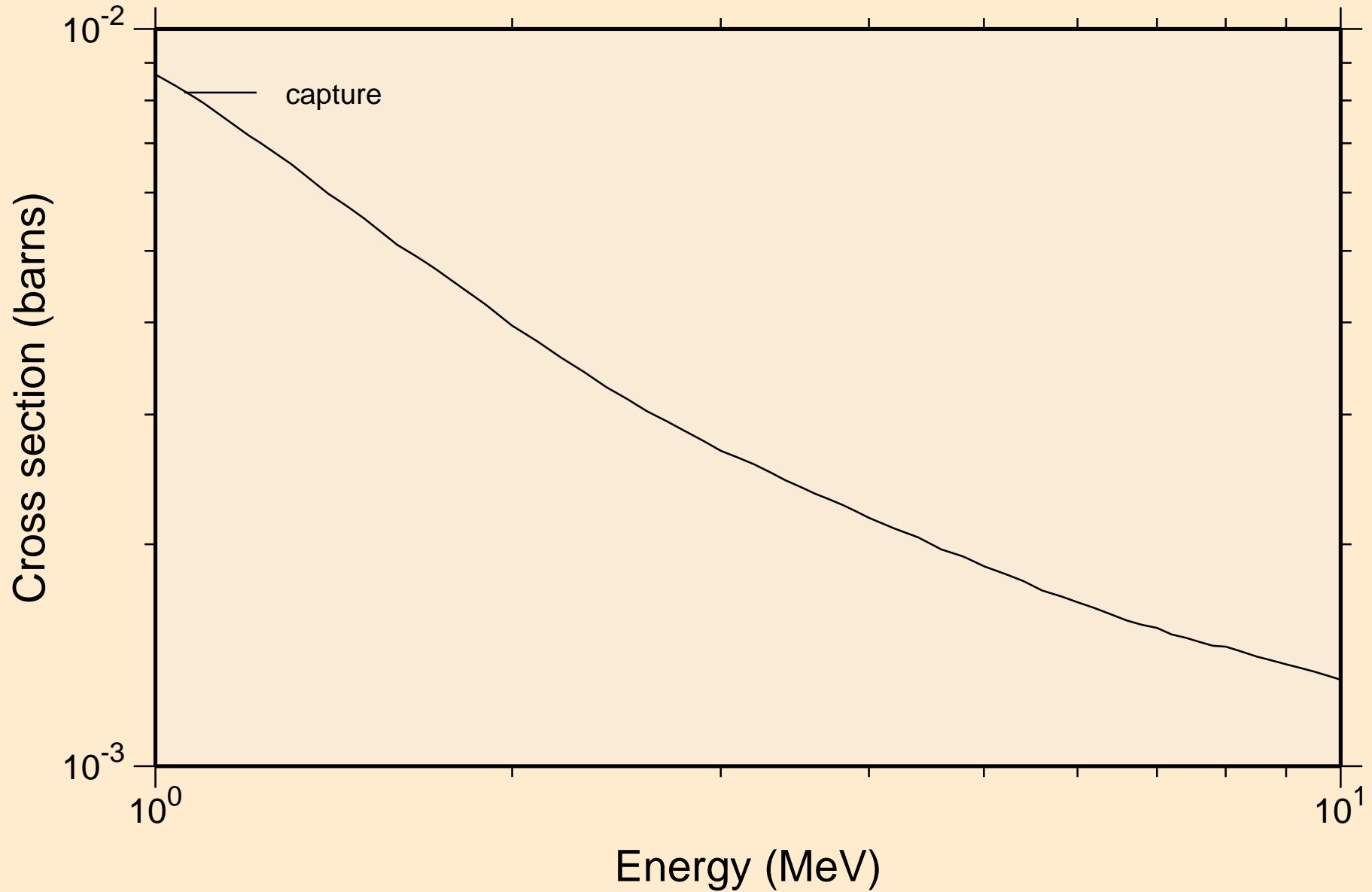
ZN063 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
resonance absorption cross sections



ZN063 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
resonance absorption cross sections

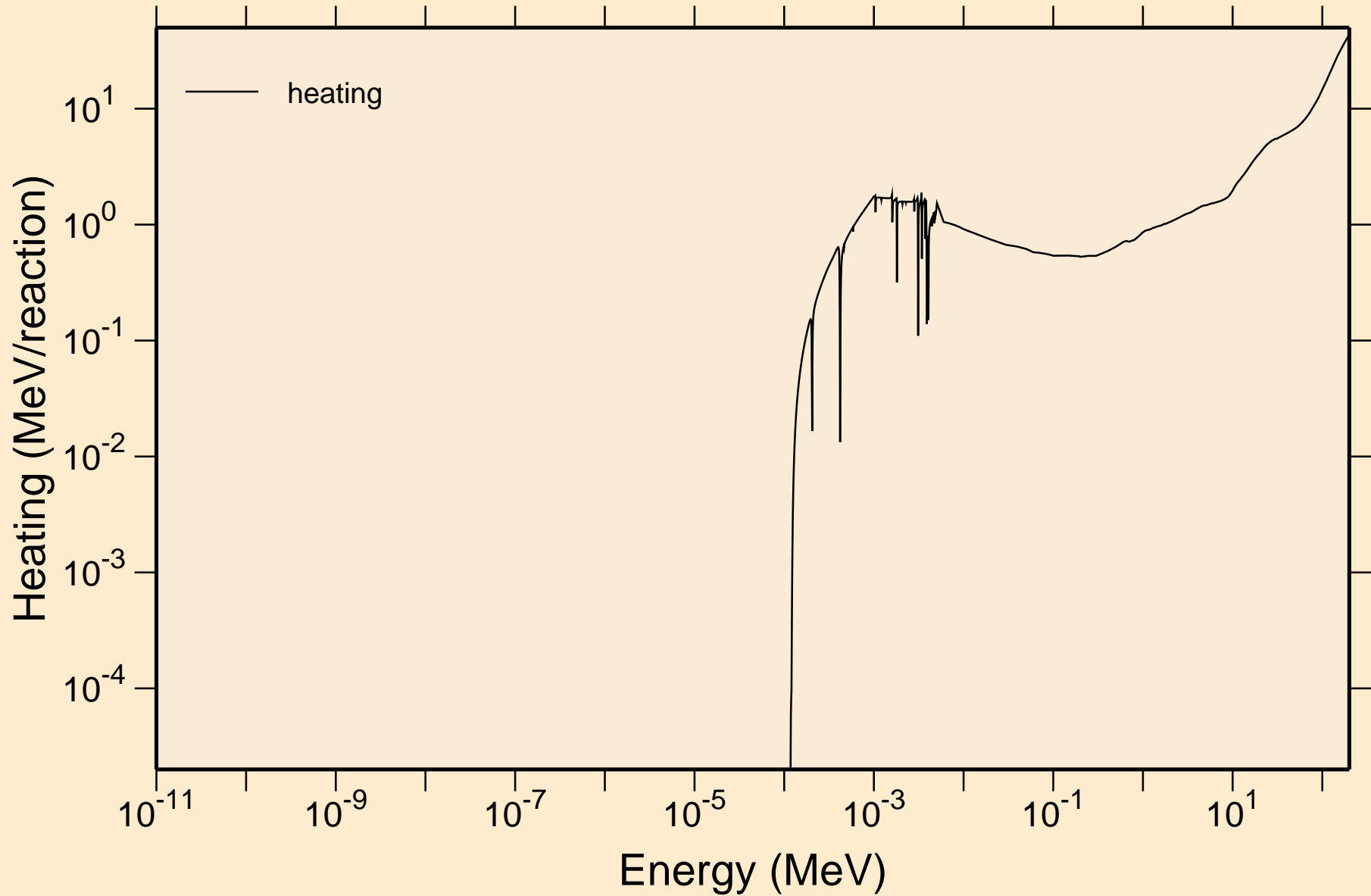


ZN063 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
resonance absorption cross sections



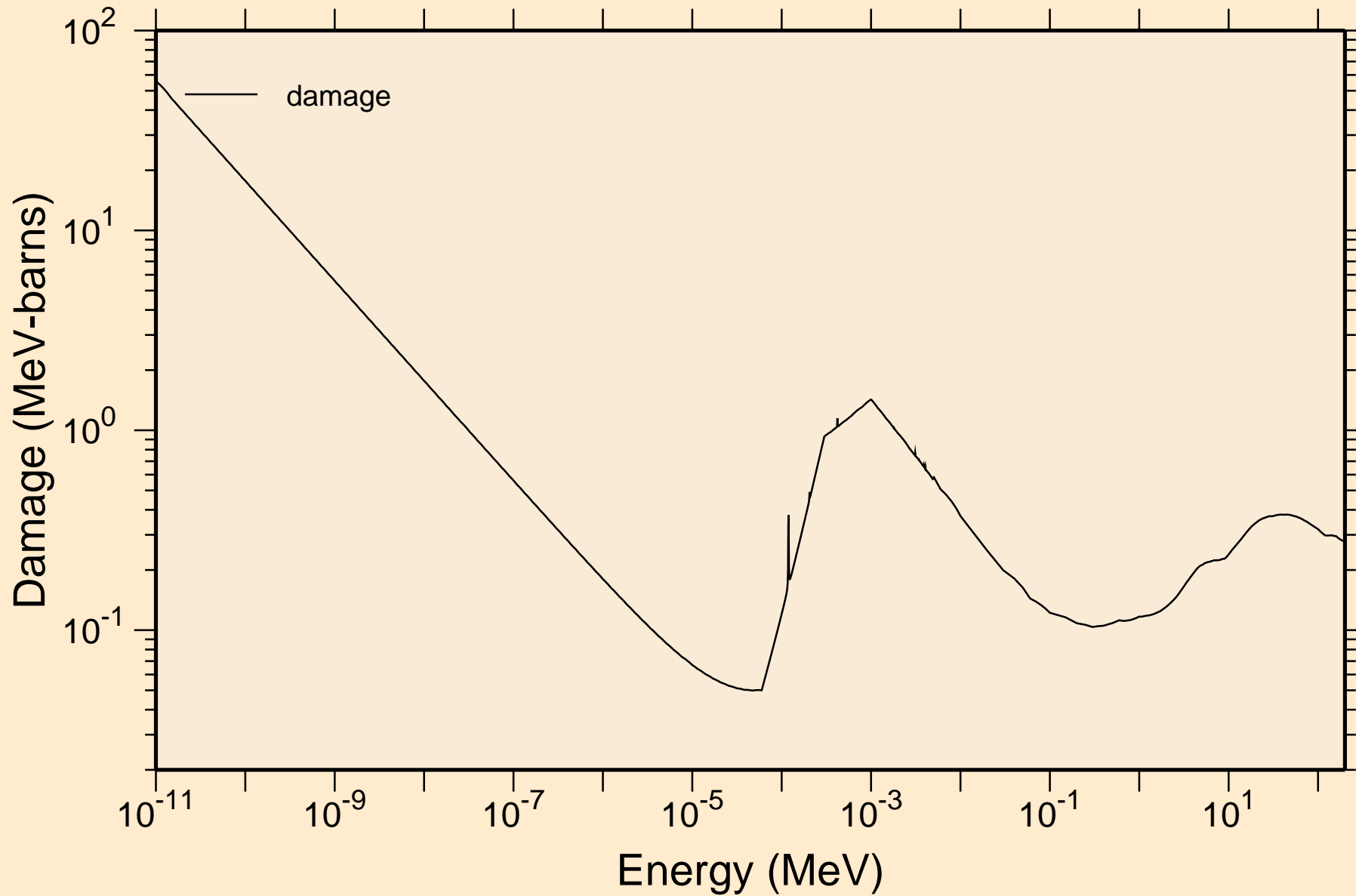
# ZN063 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

## Heating



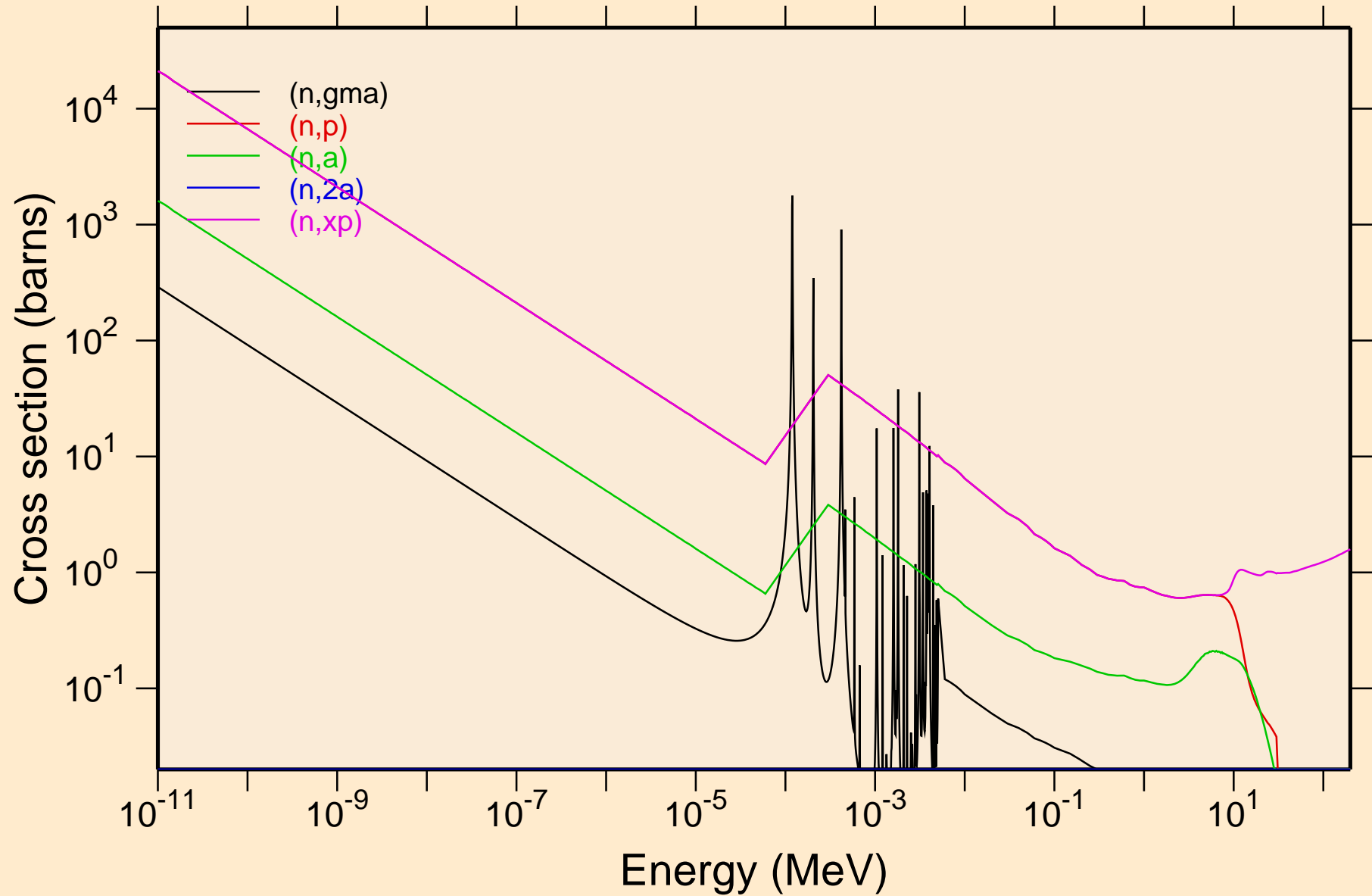


ZN063 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Damage

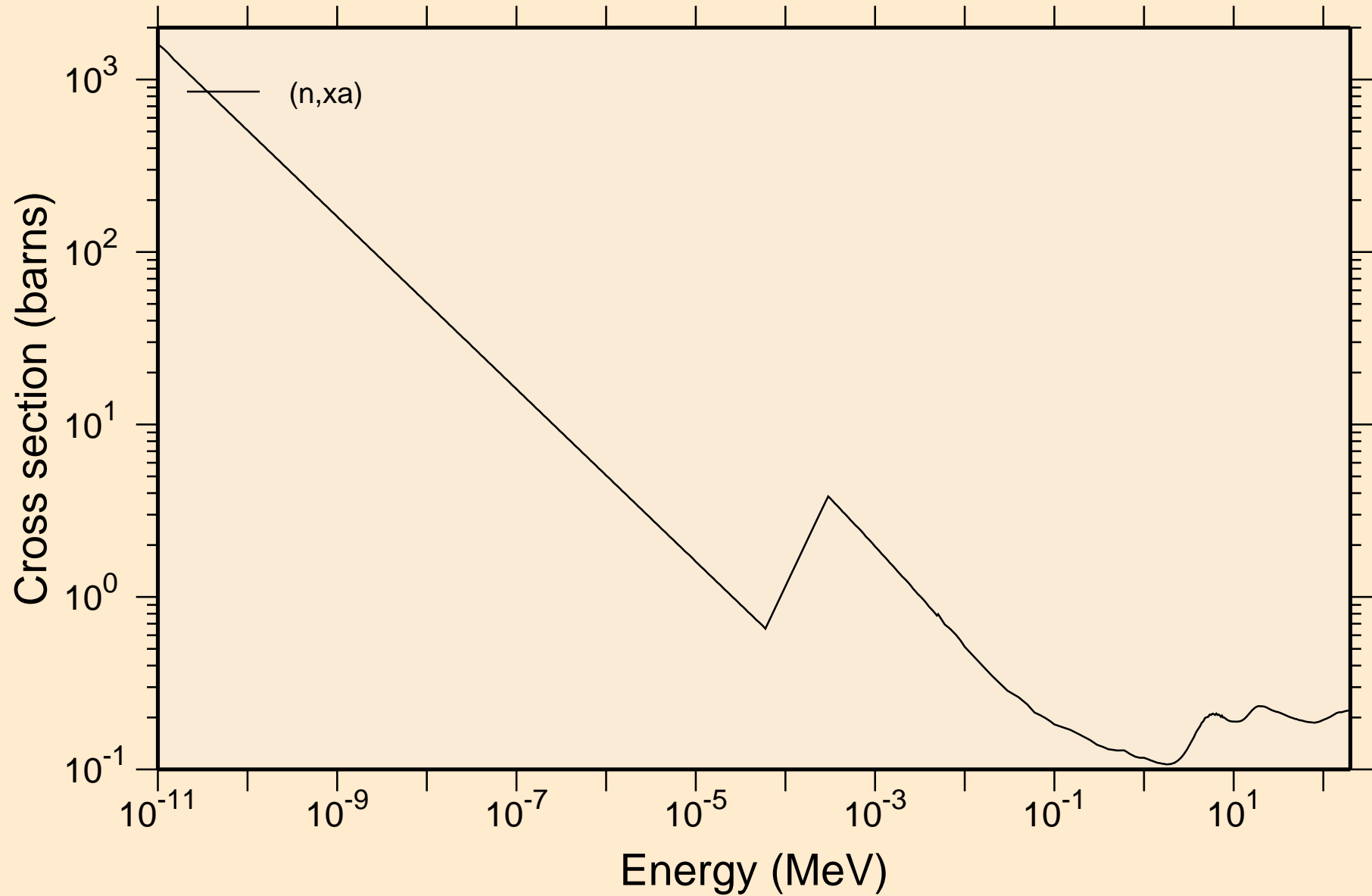


# ZN063 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

## Non-threshold reactions

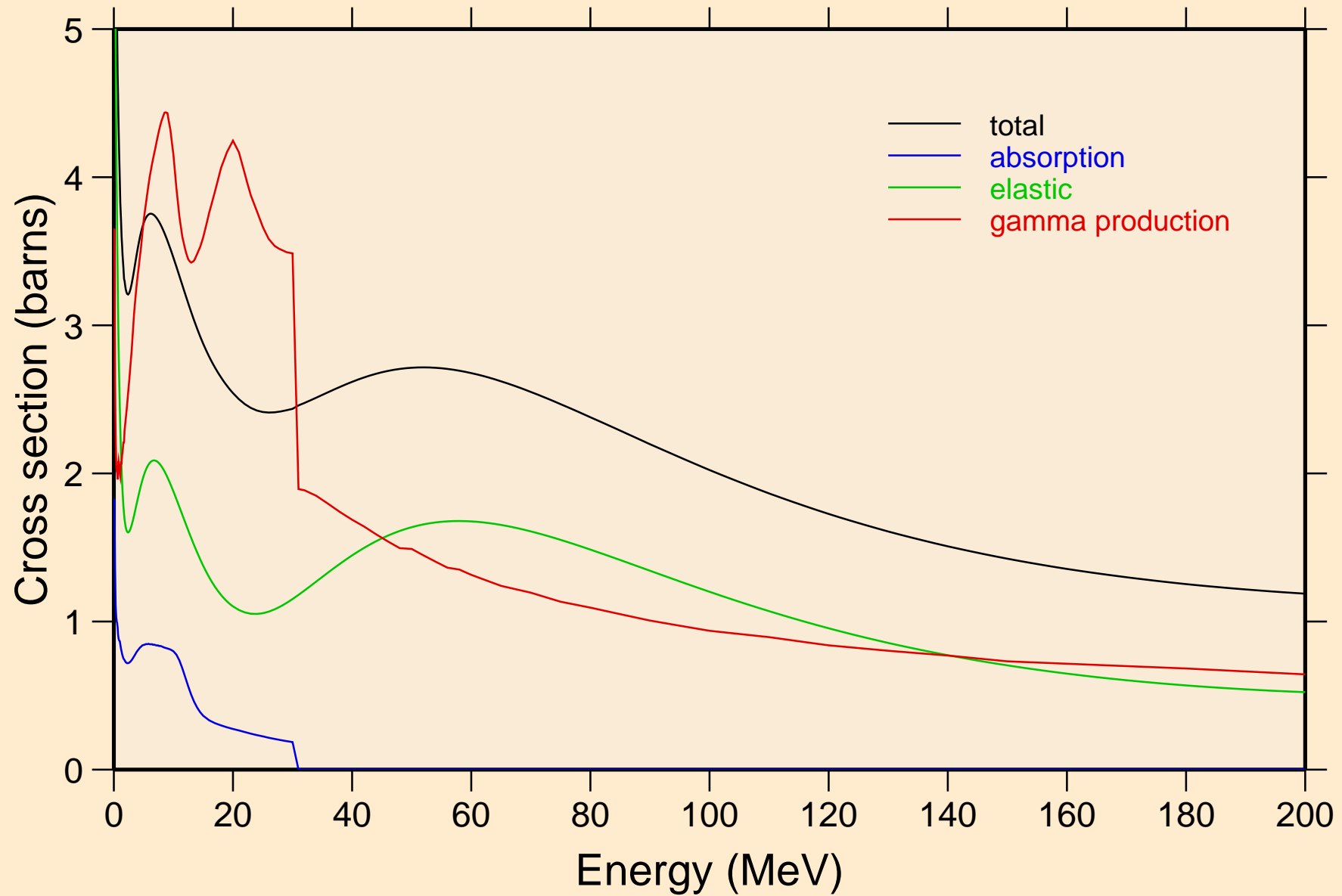


ZN063 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Non-threshold reactions



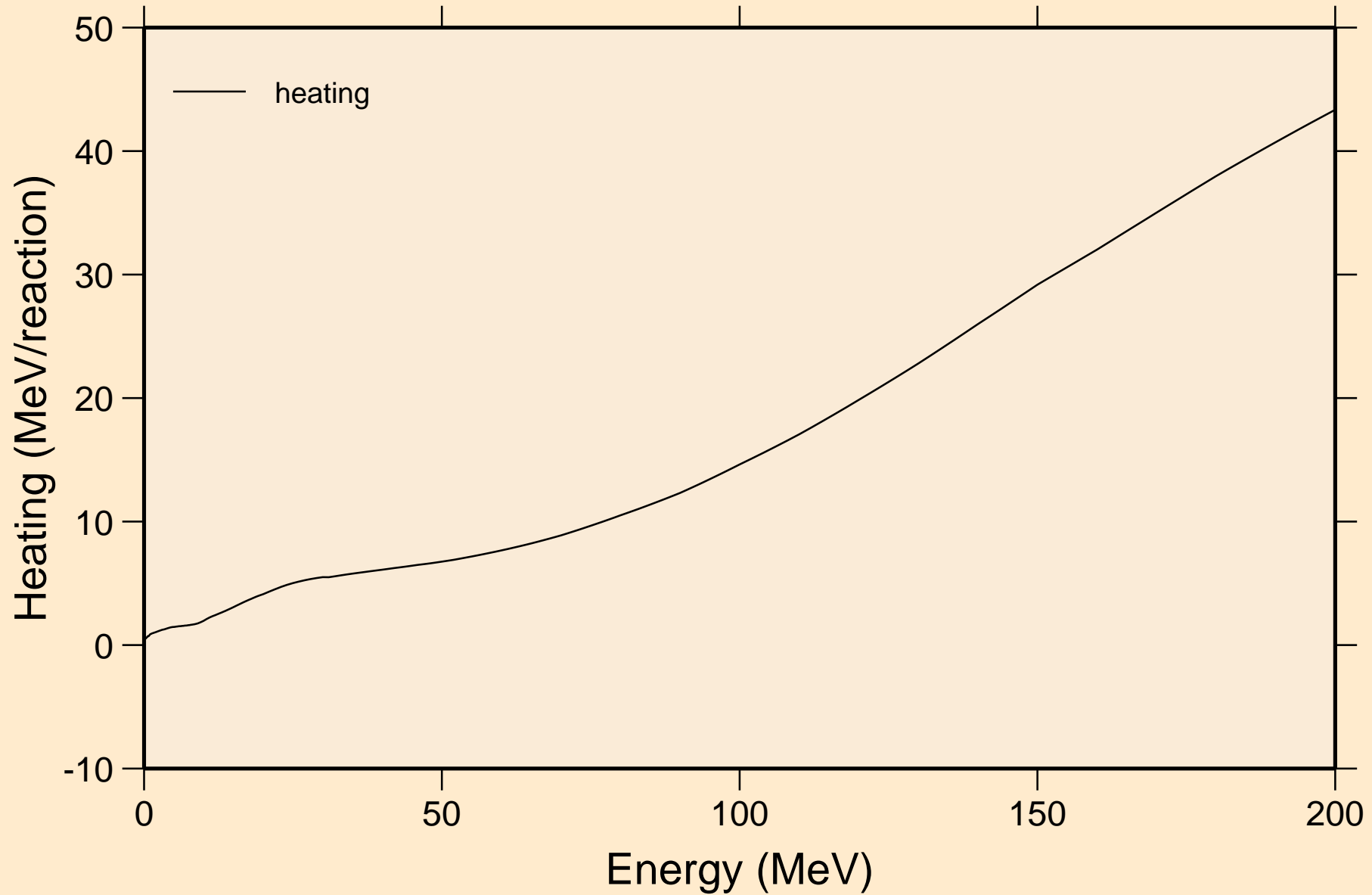
# ZN063 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

## Principal cross sections



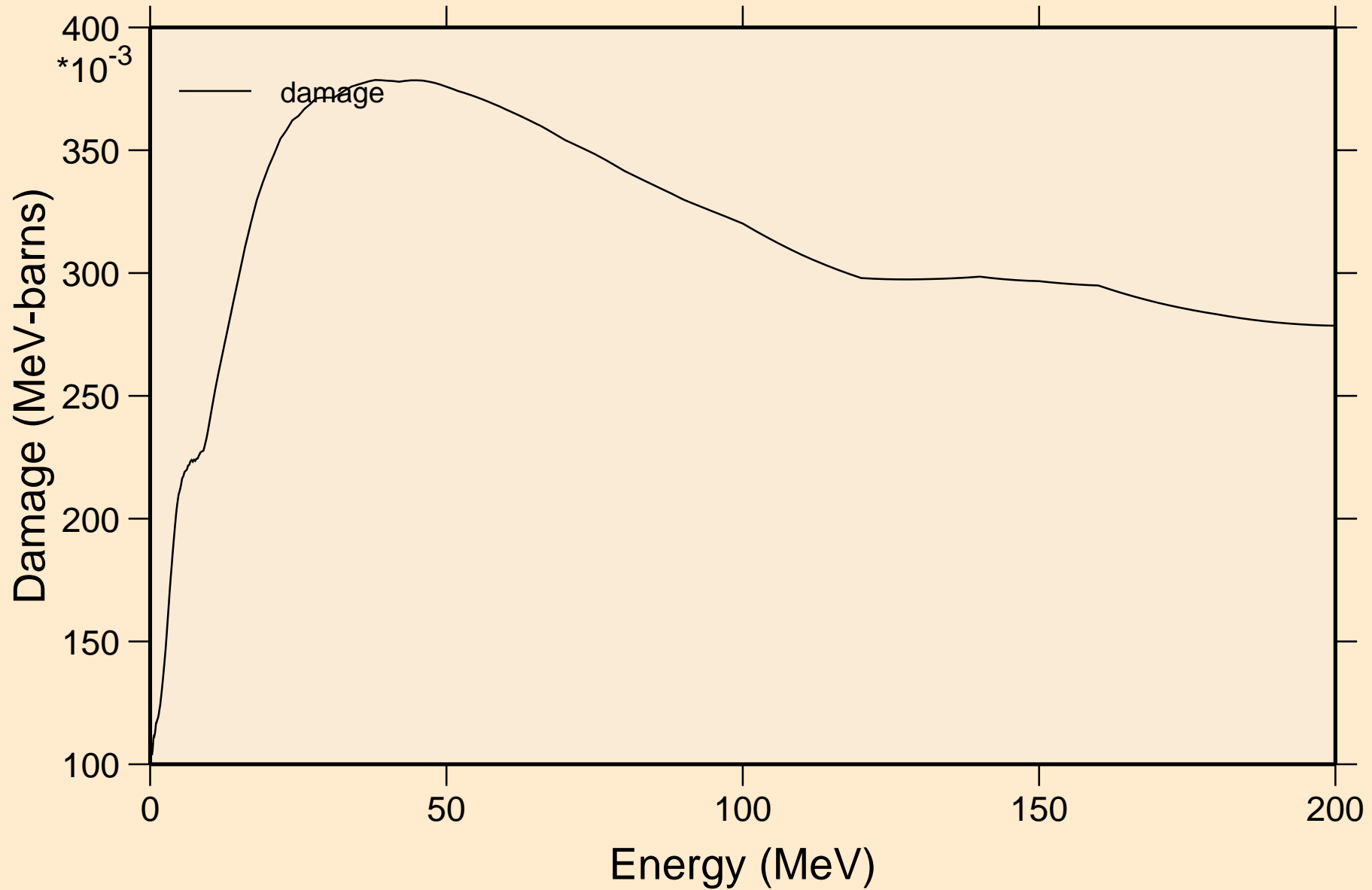
# ZN063 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

## Heating



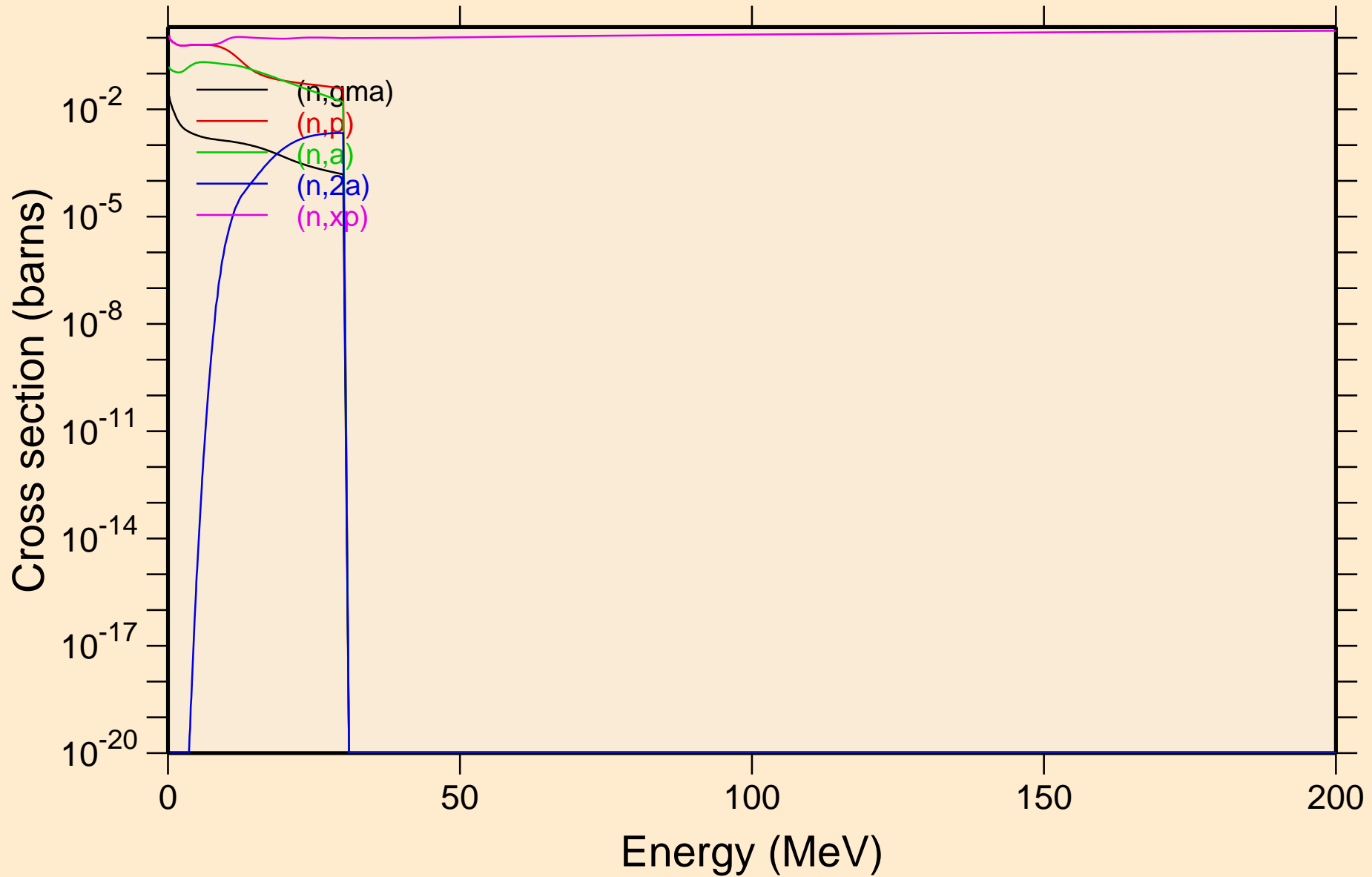
# ZN063 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

## Damage

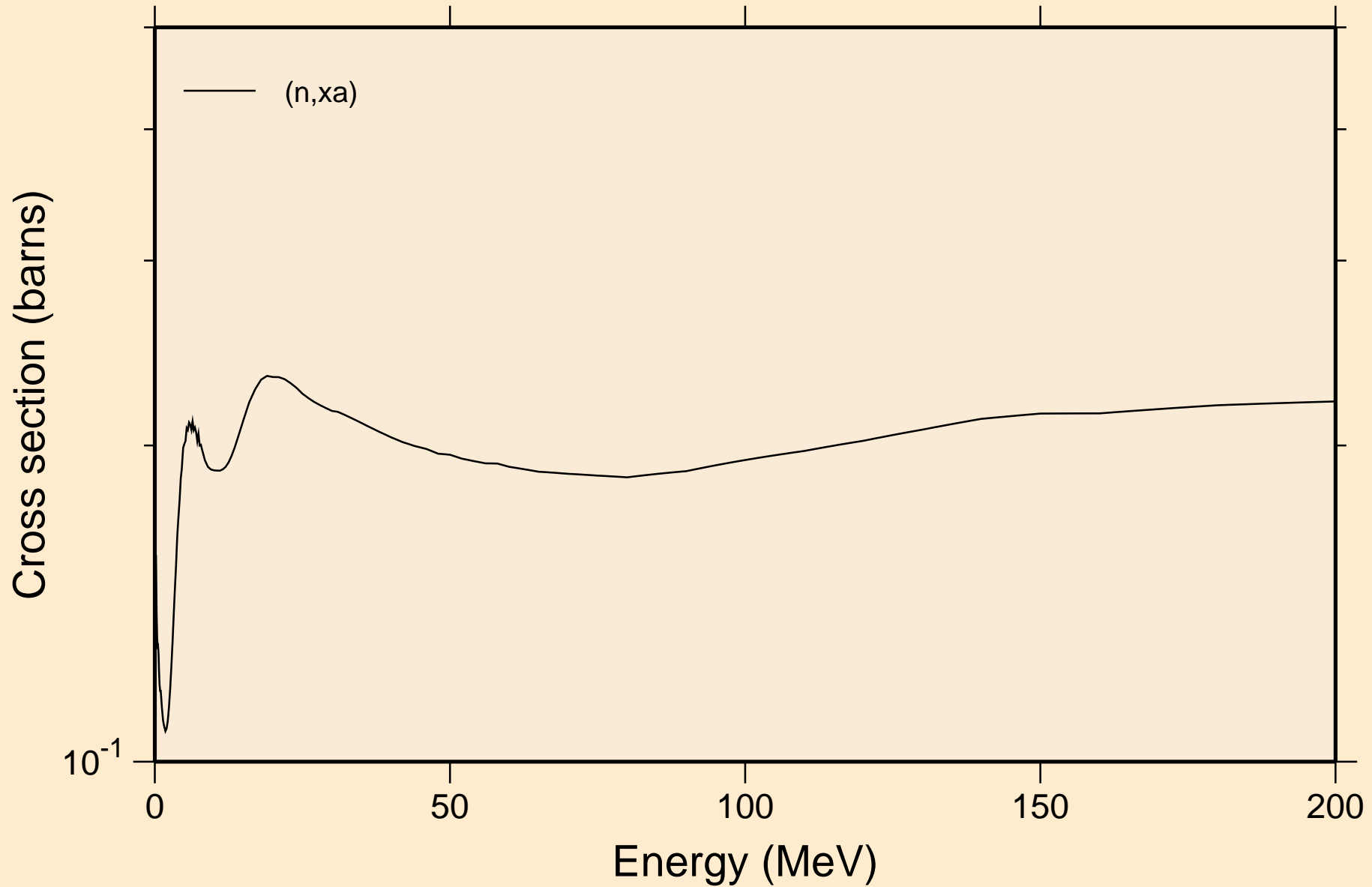


# ZN063 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

## Non-threshold reactions



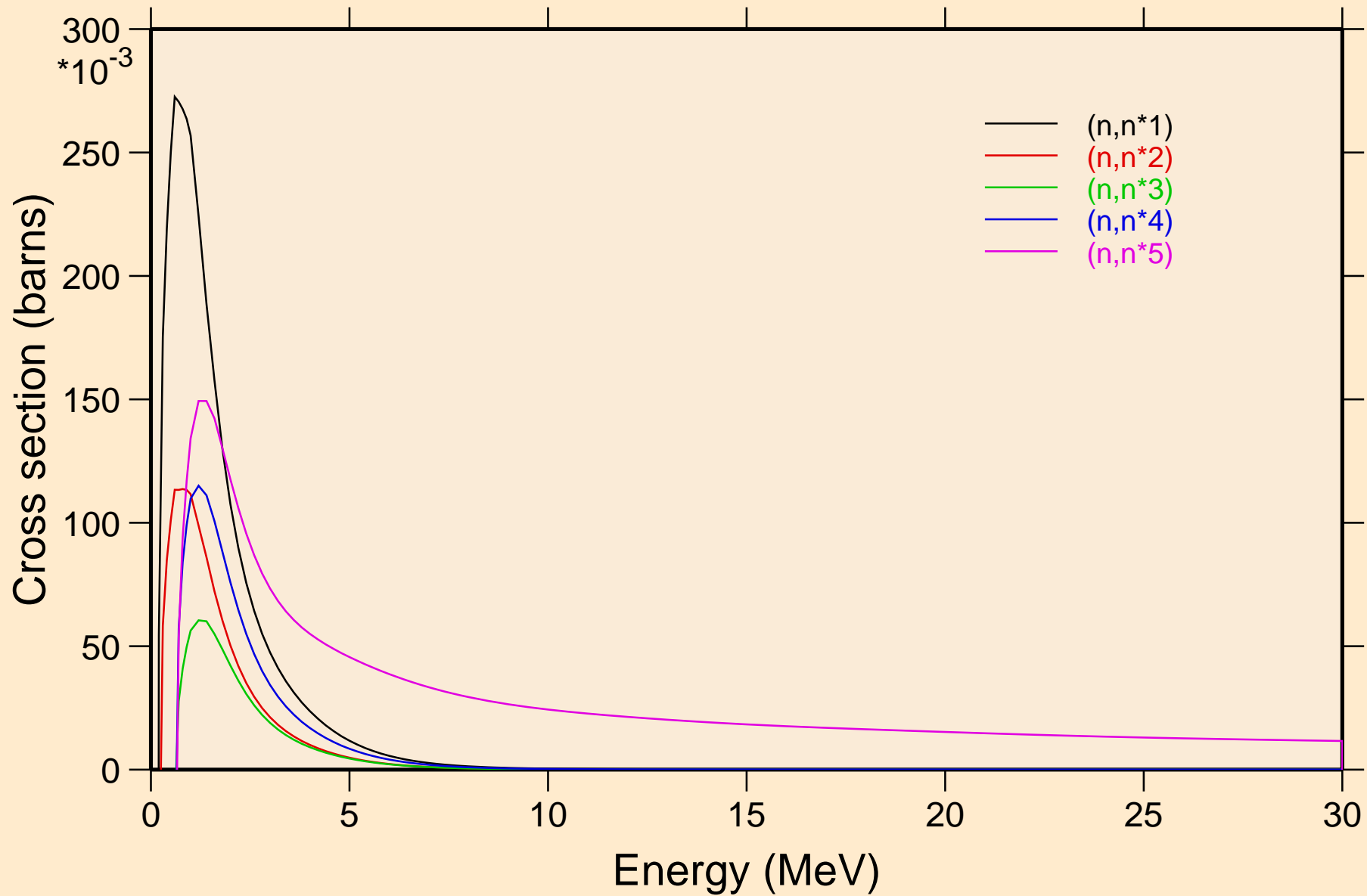
ZN063 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Non-threshold reactions



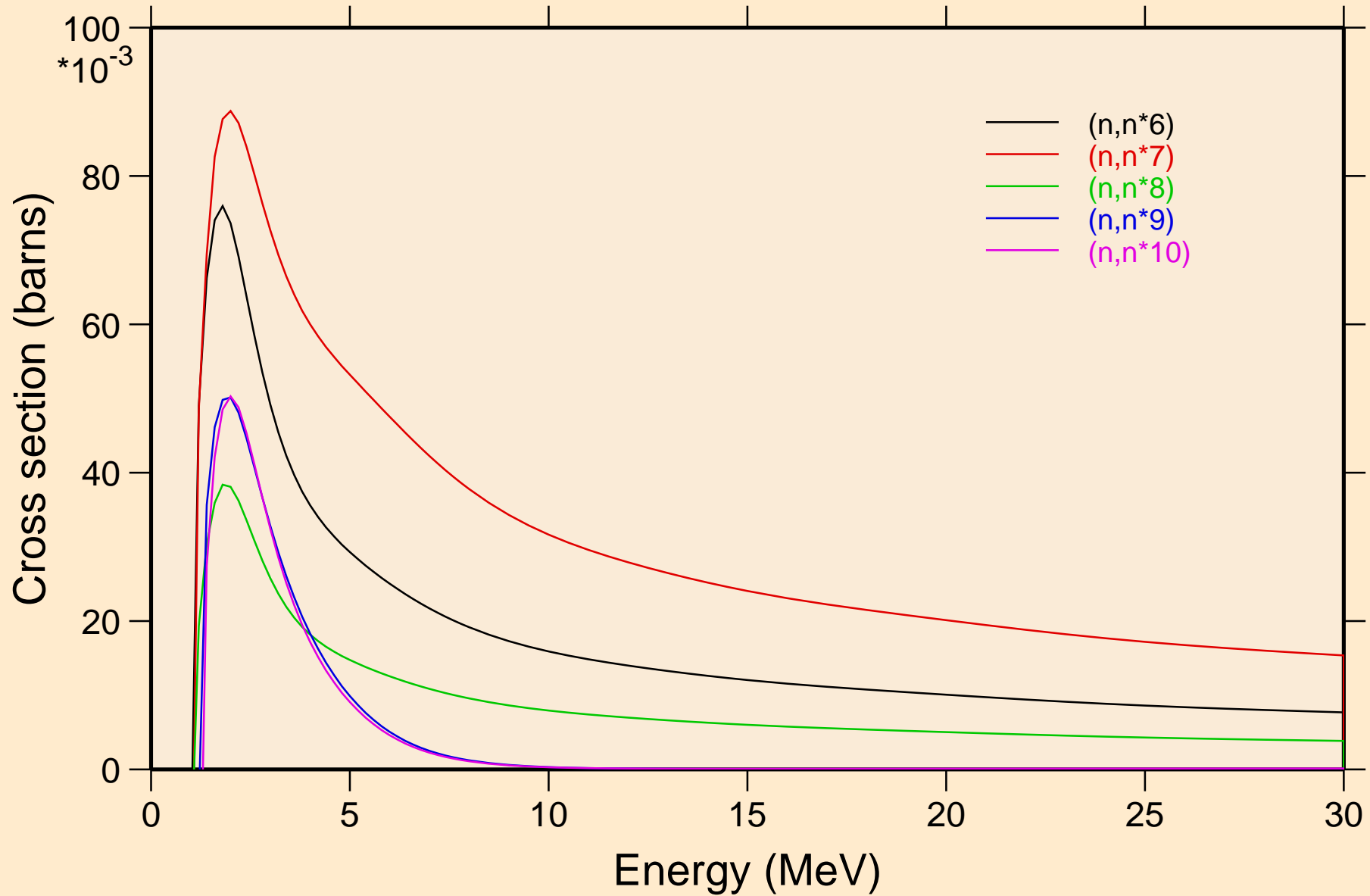


# ZN063 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

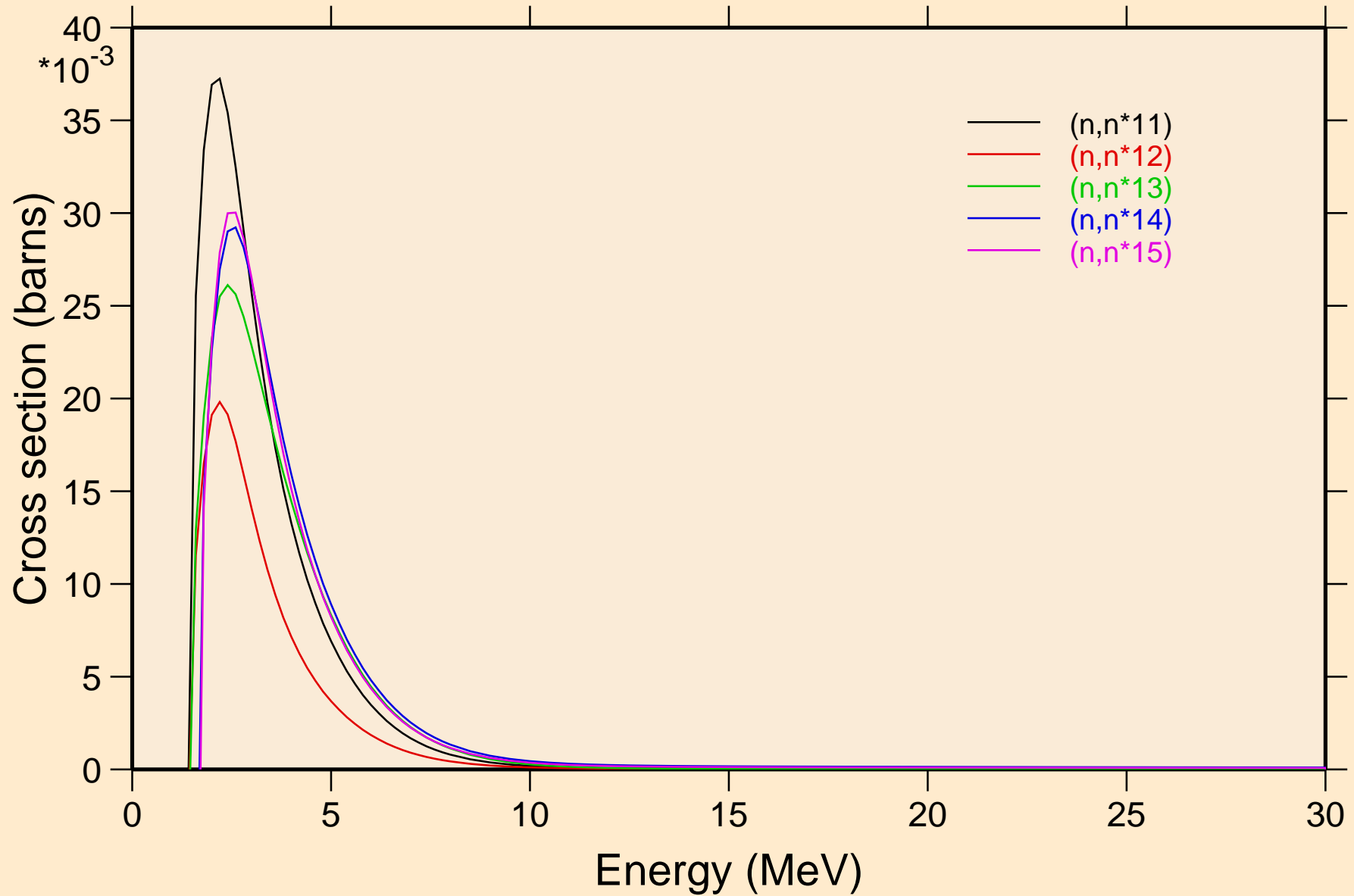
## Inelastic levels



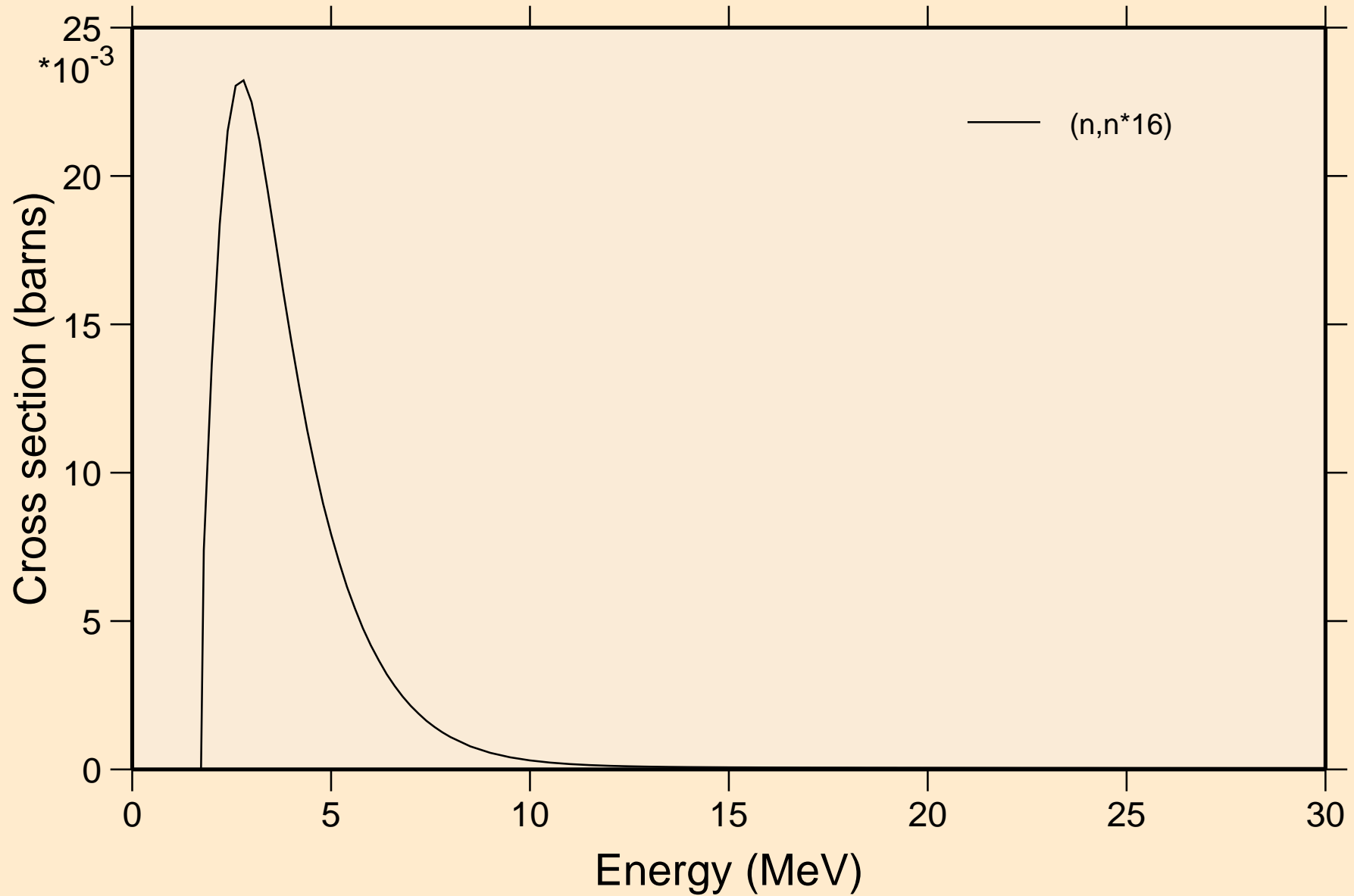
ZN063 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Inelastic levels



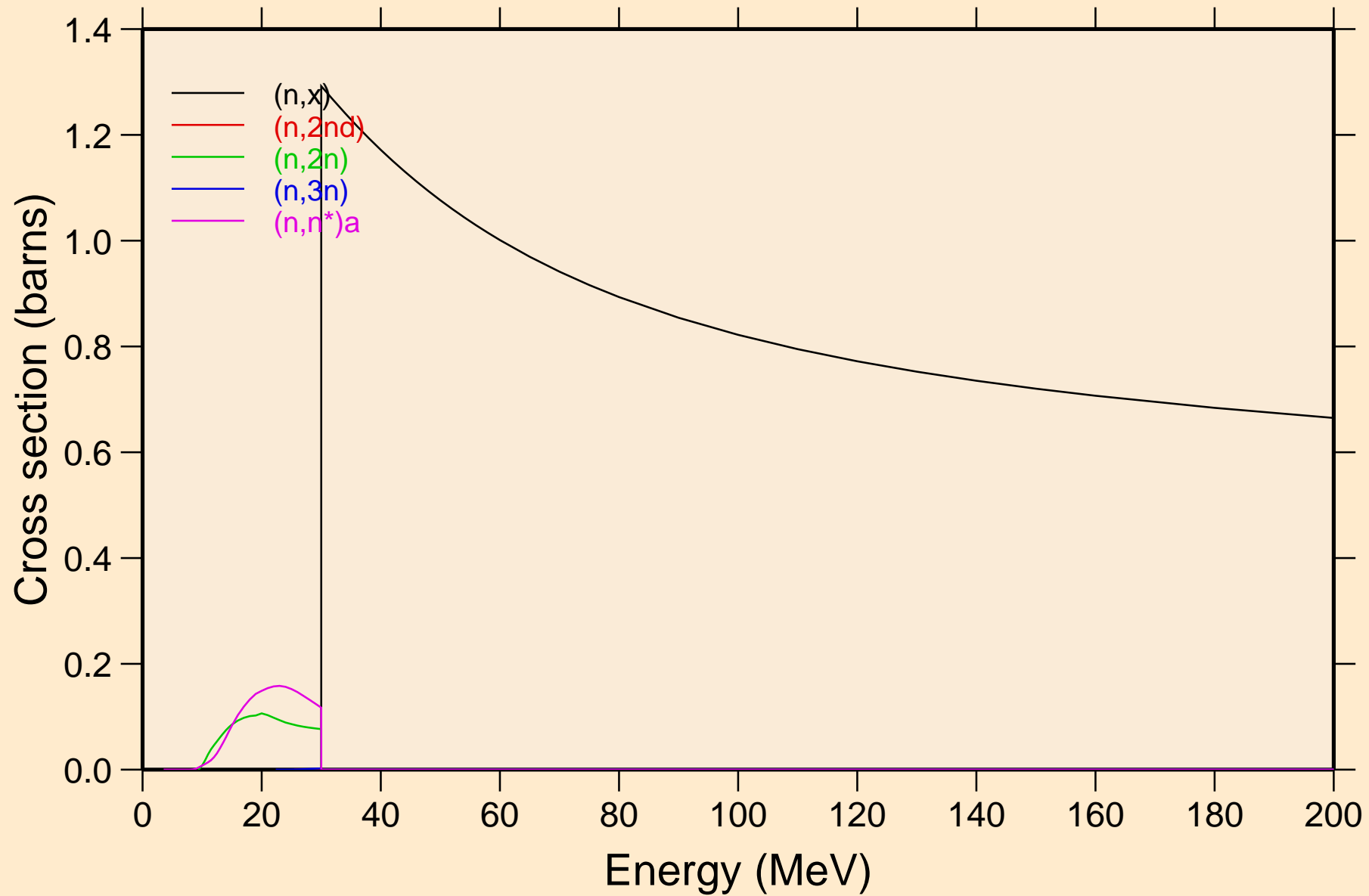
ZN063 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Inelastic levels



ZN063 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Inelastic levels

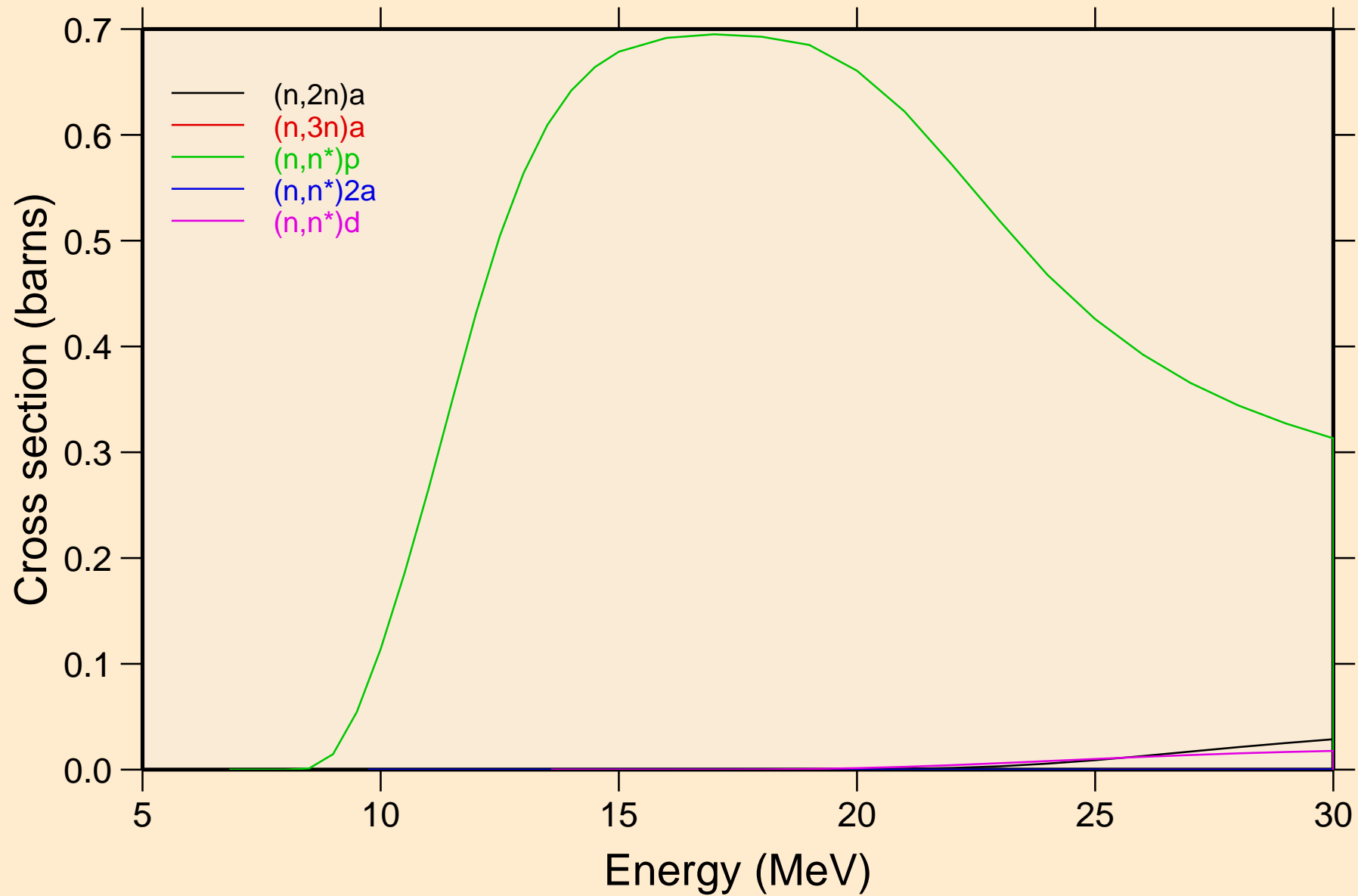


ZN063 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Threshold reactions



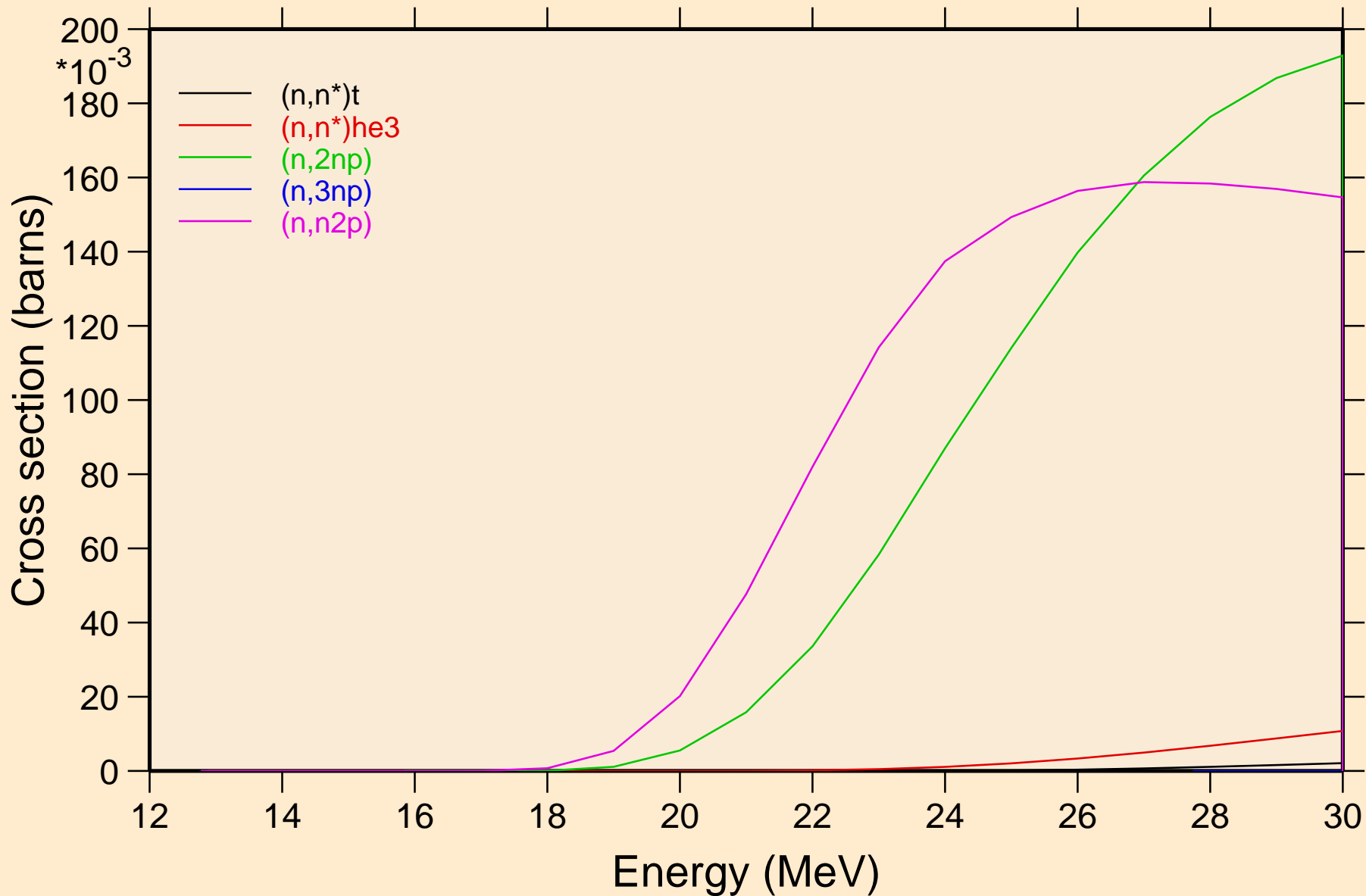
# ZN063 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

## Threshold reactions



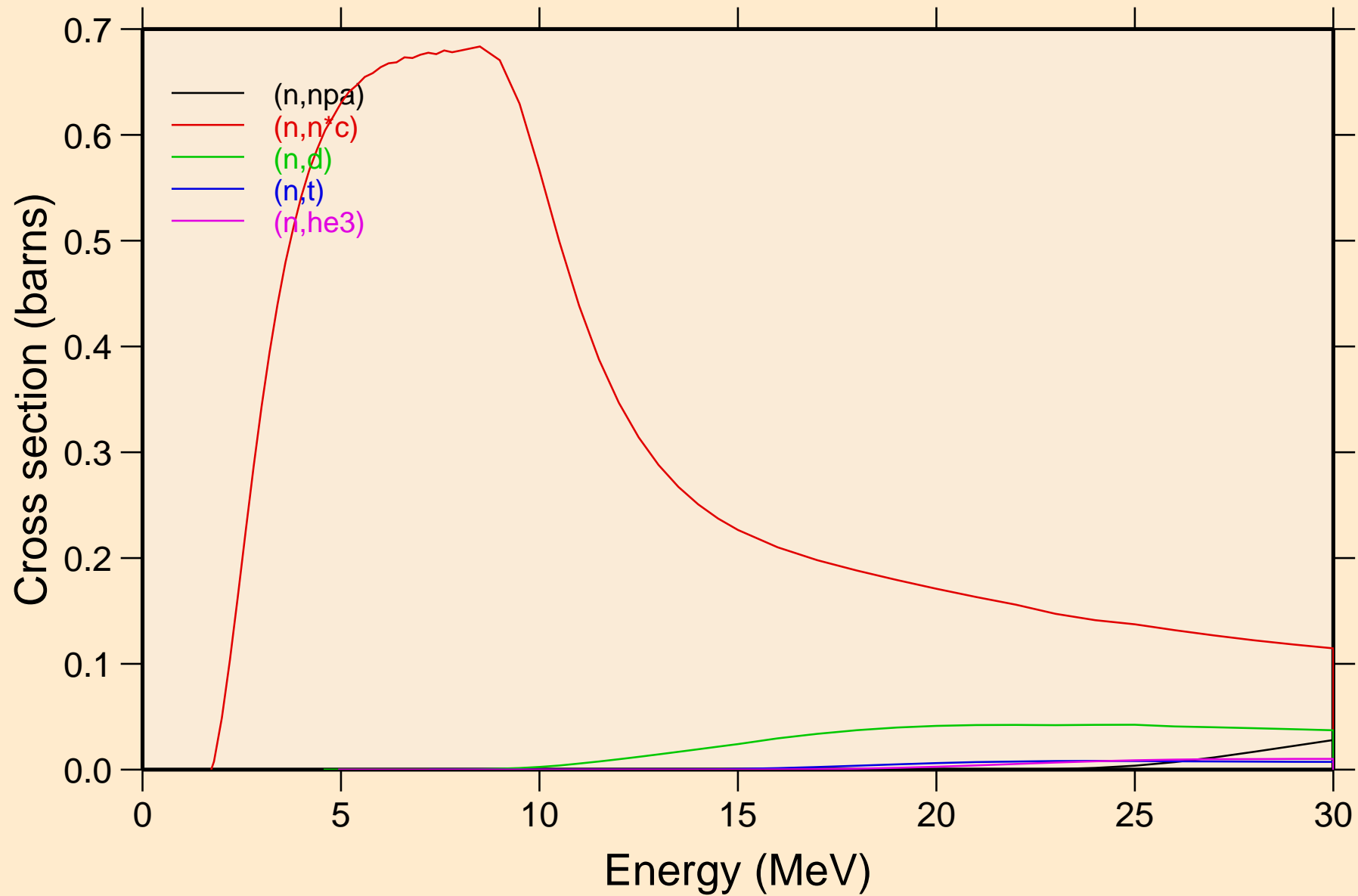
# ZN063 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

## Threshold reactions



# ZN063 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

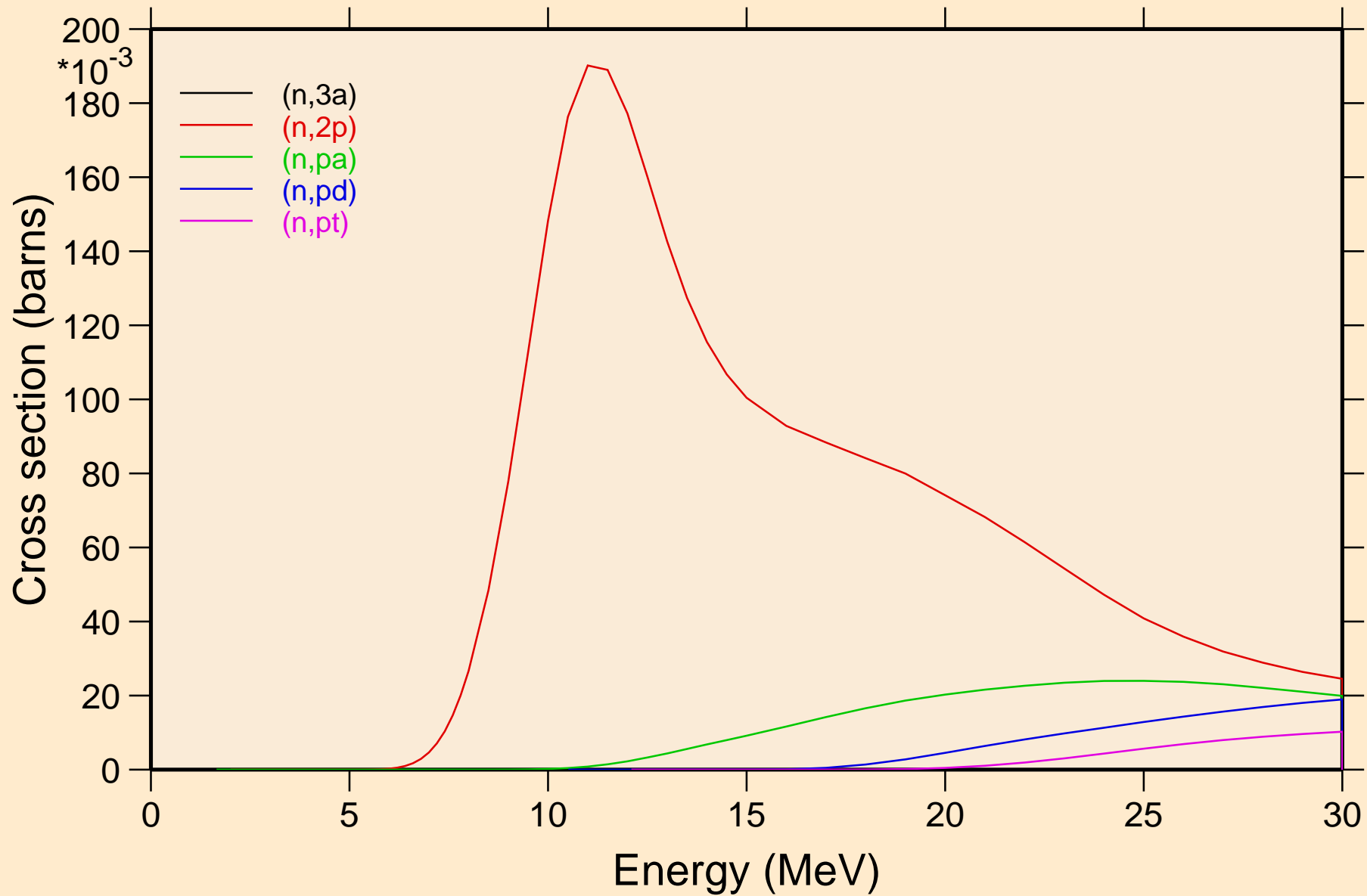
## Threshold reactions



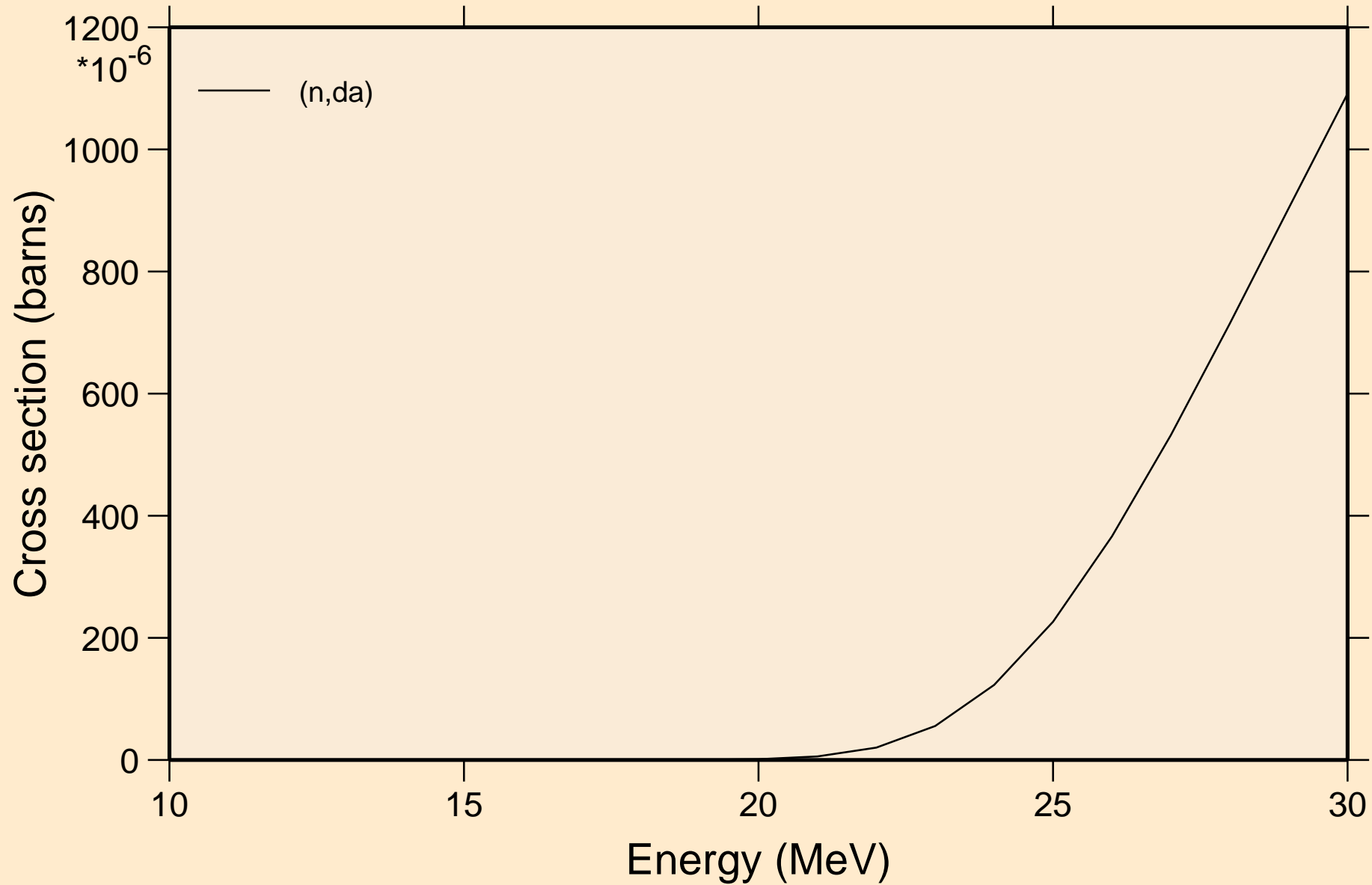


# ZN063 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

## Threshold reactions

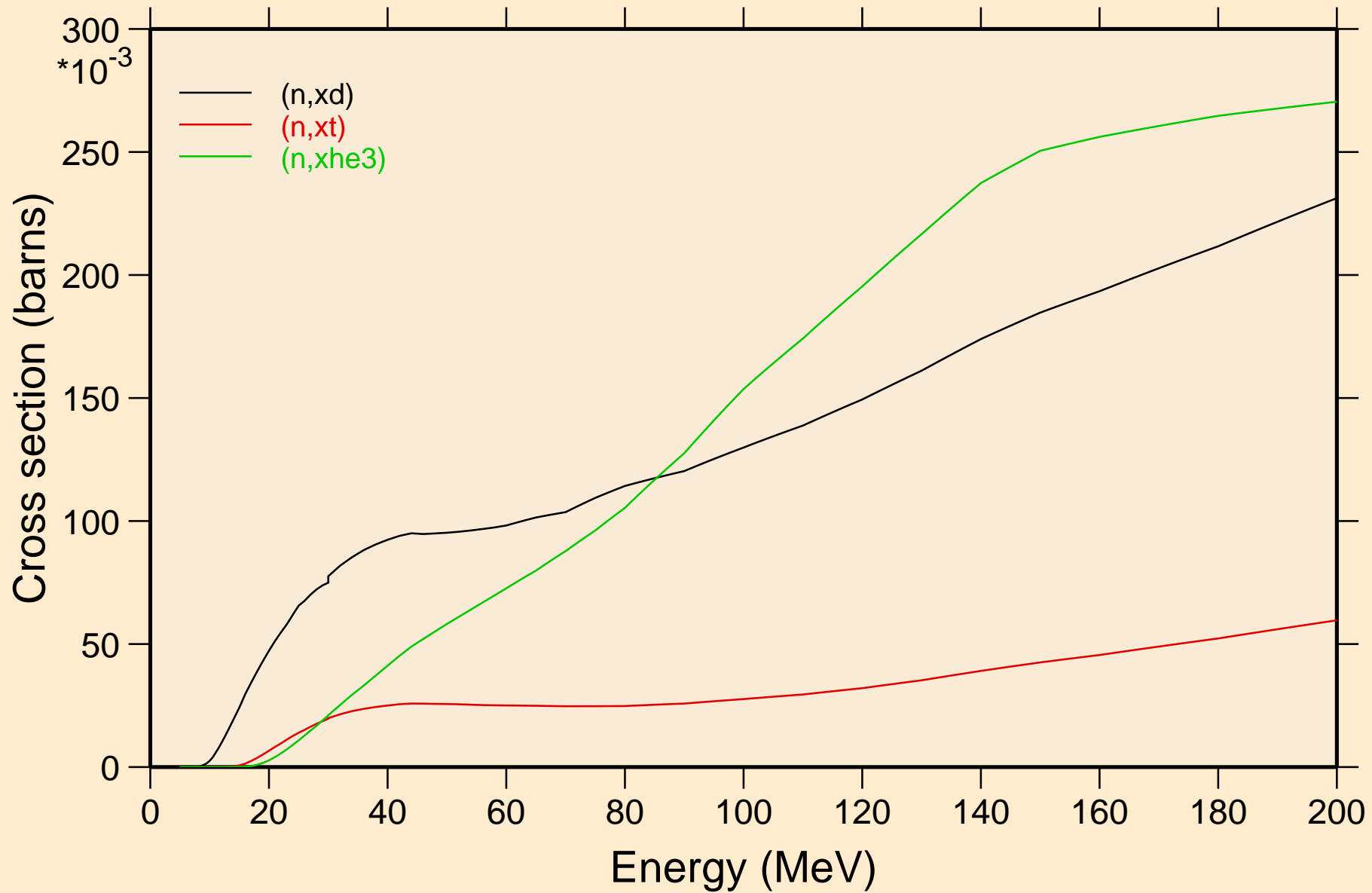


ZN063 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Threshold reactions

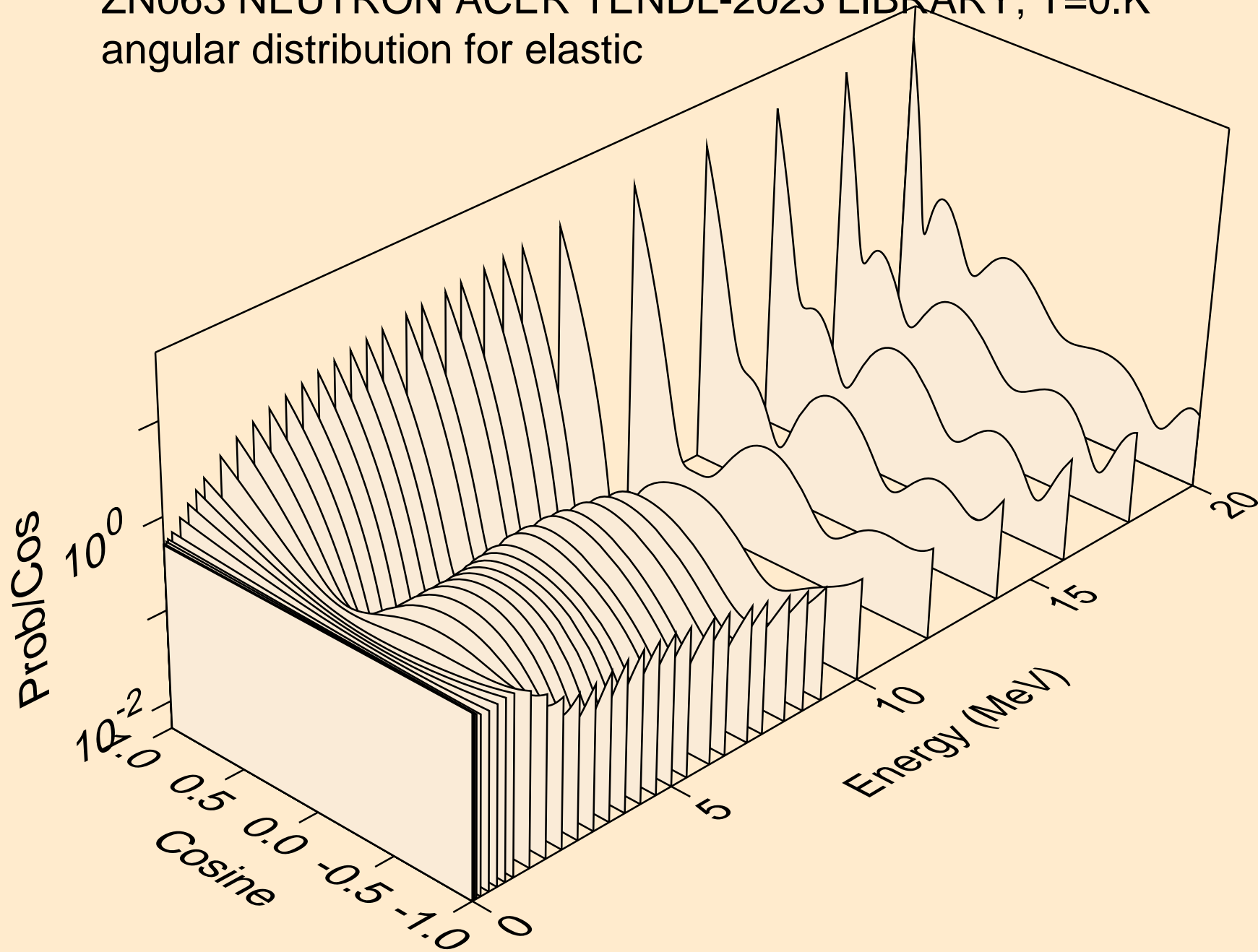


# ZN063 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

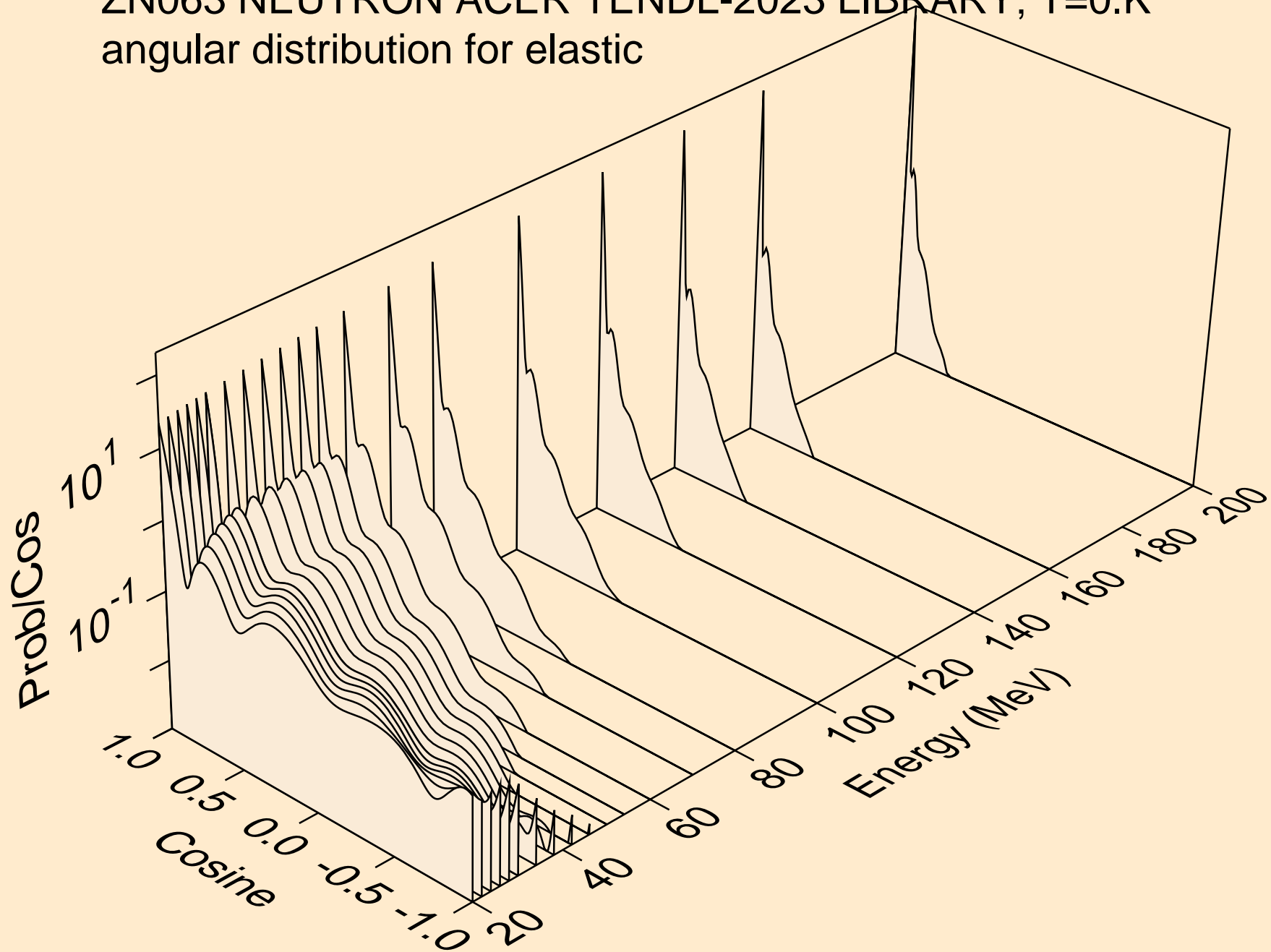
## Threshold reactions



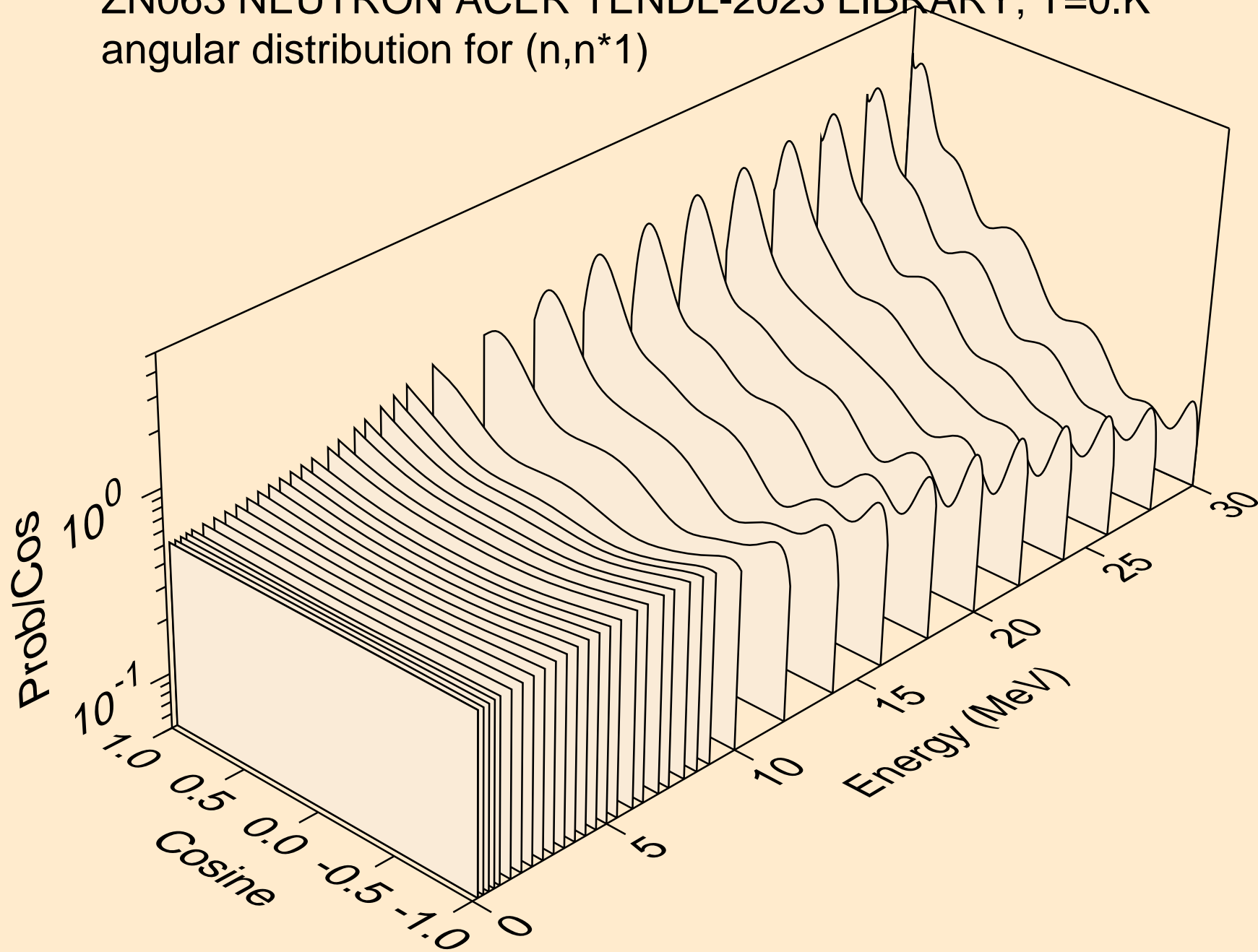
ZN063 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for elastic



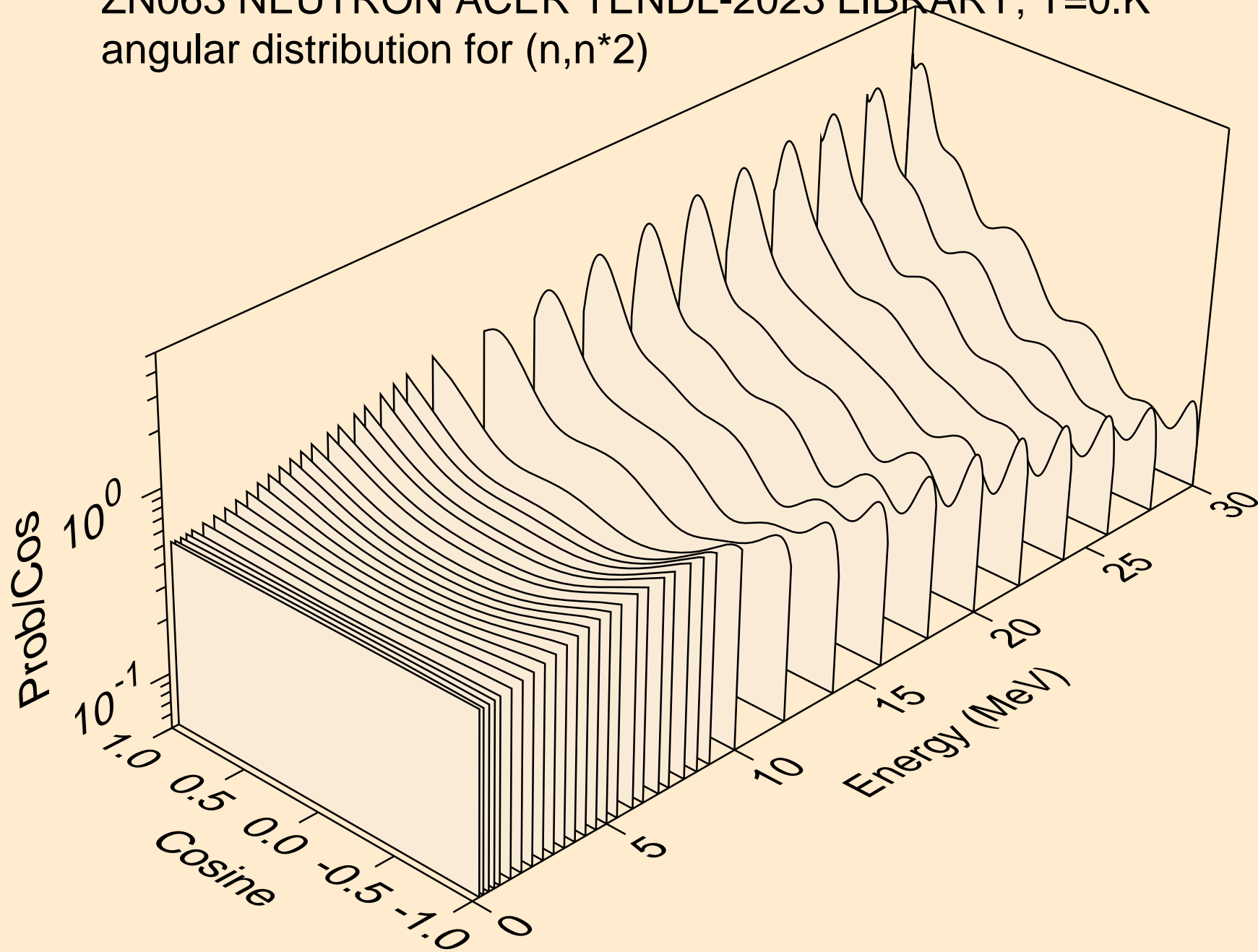
ZN063 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for elastic



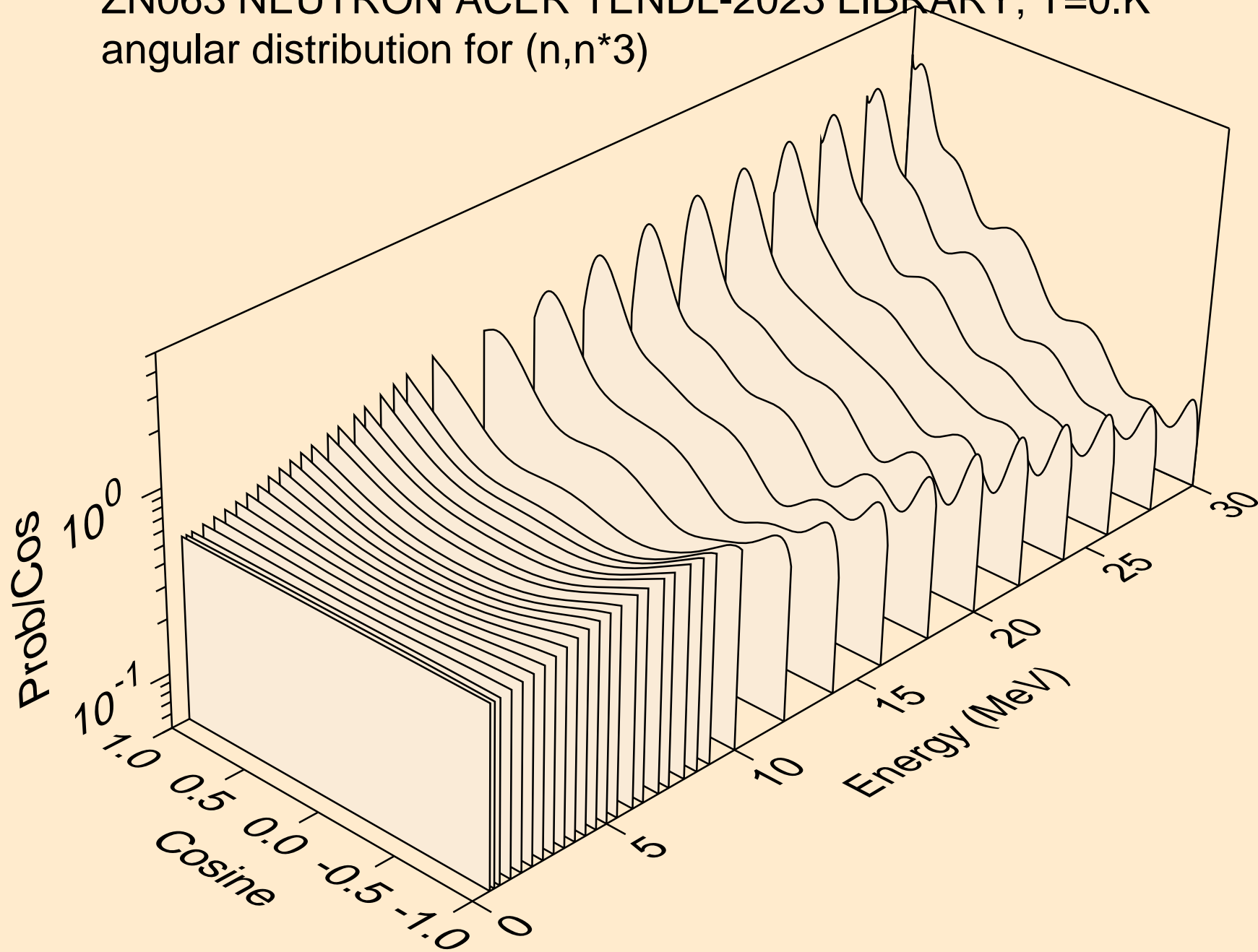
ZN063 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*1)



ZN063 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*2)

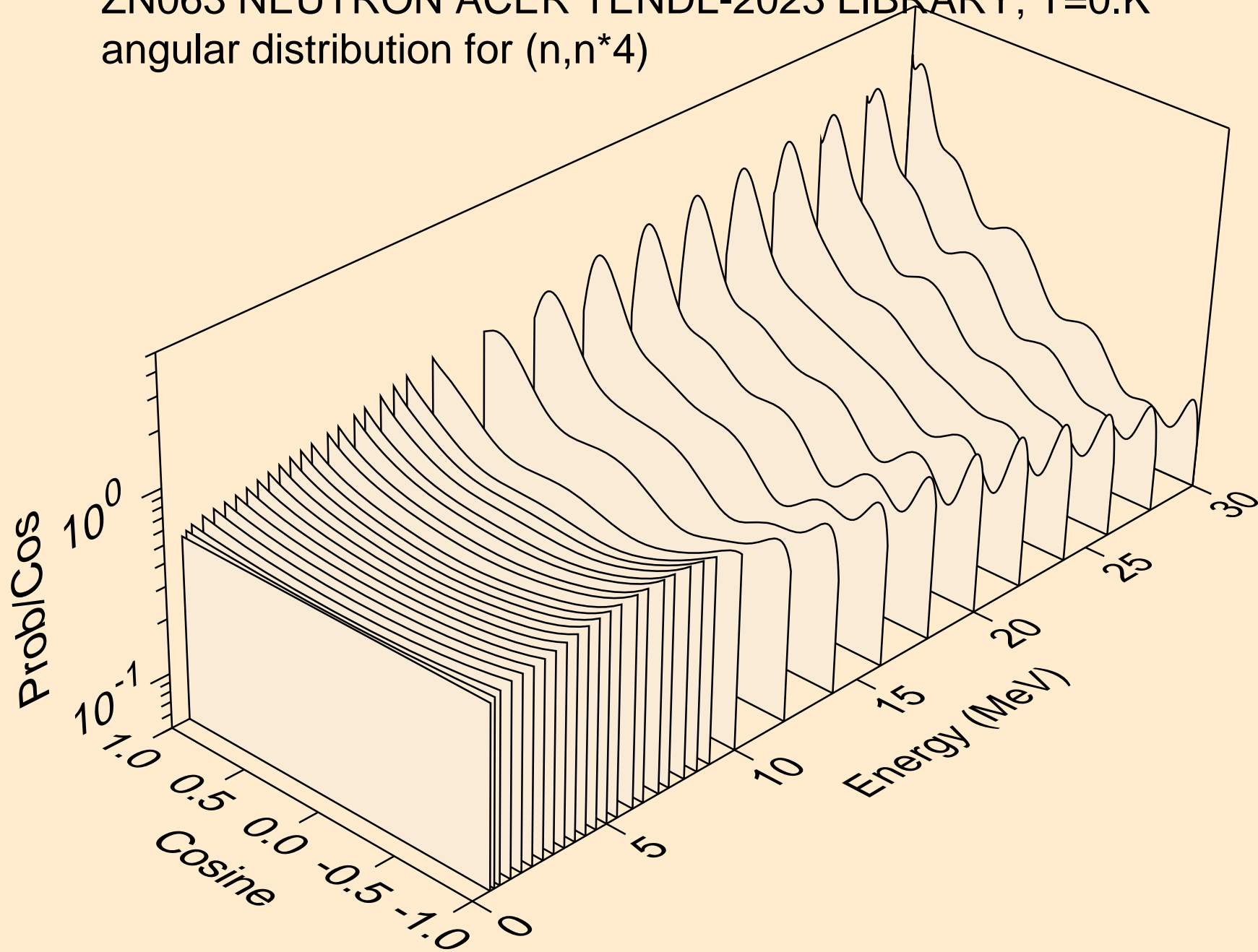


ZN063 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*3)

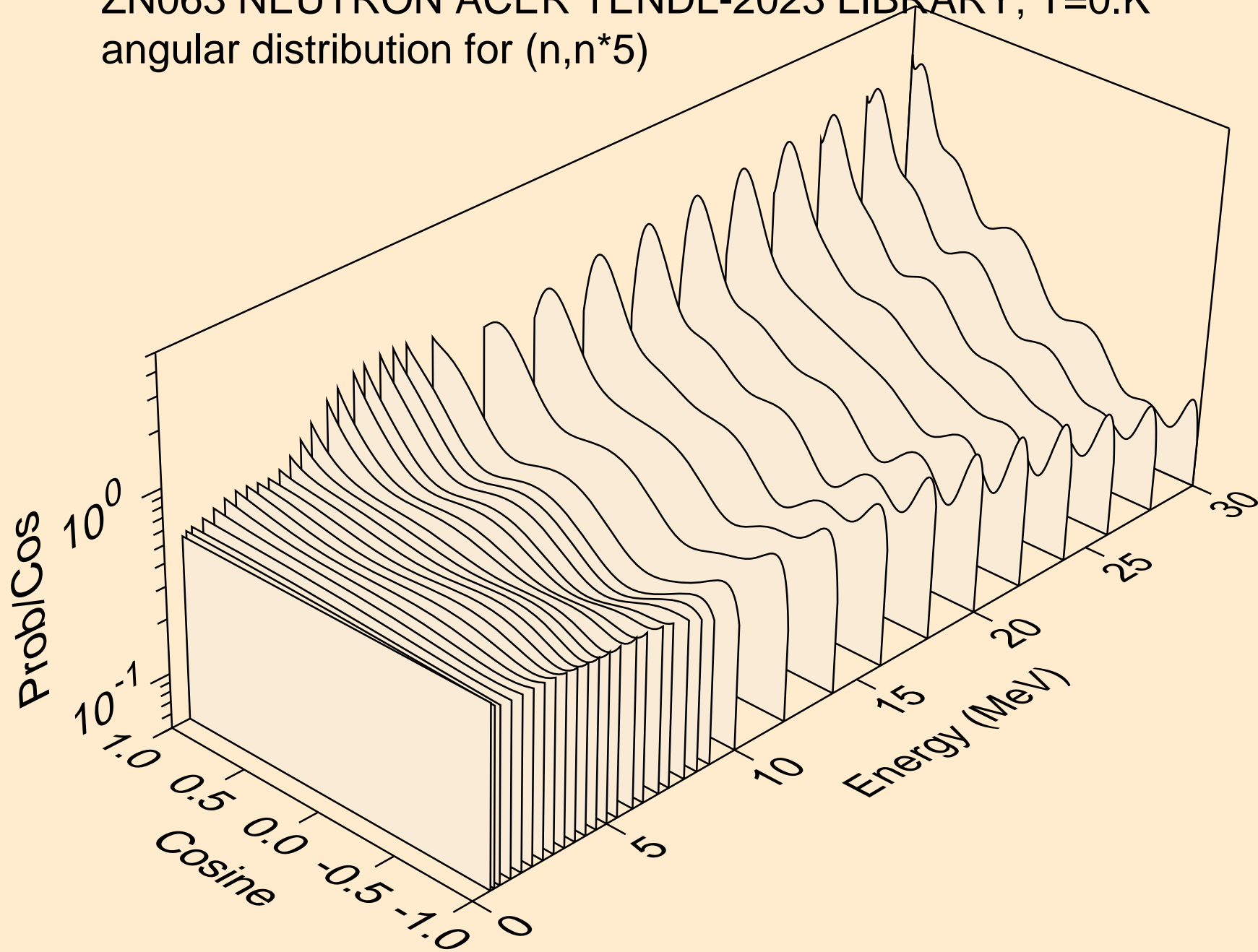




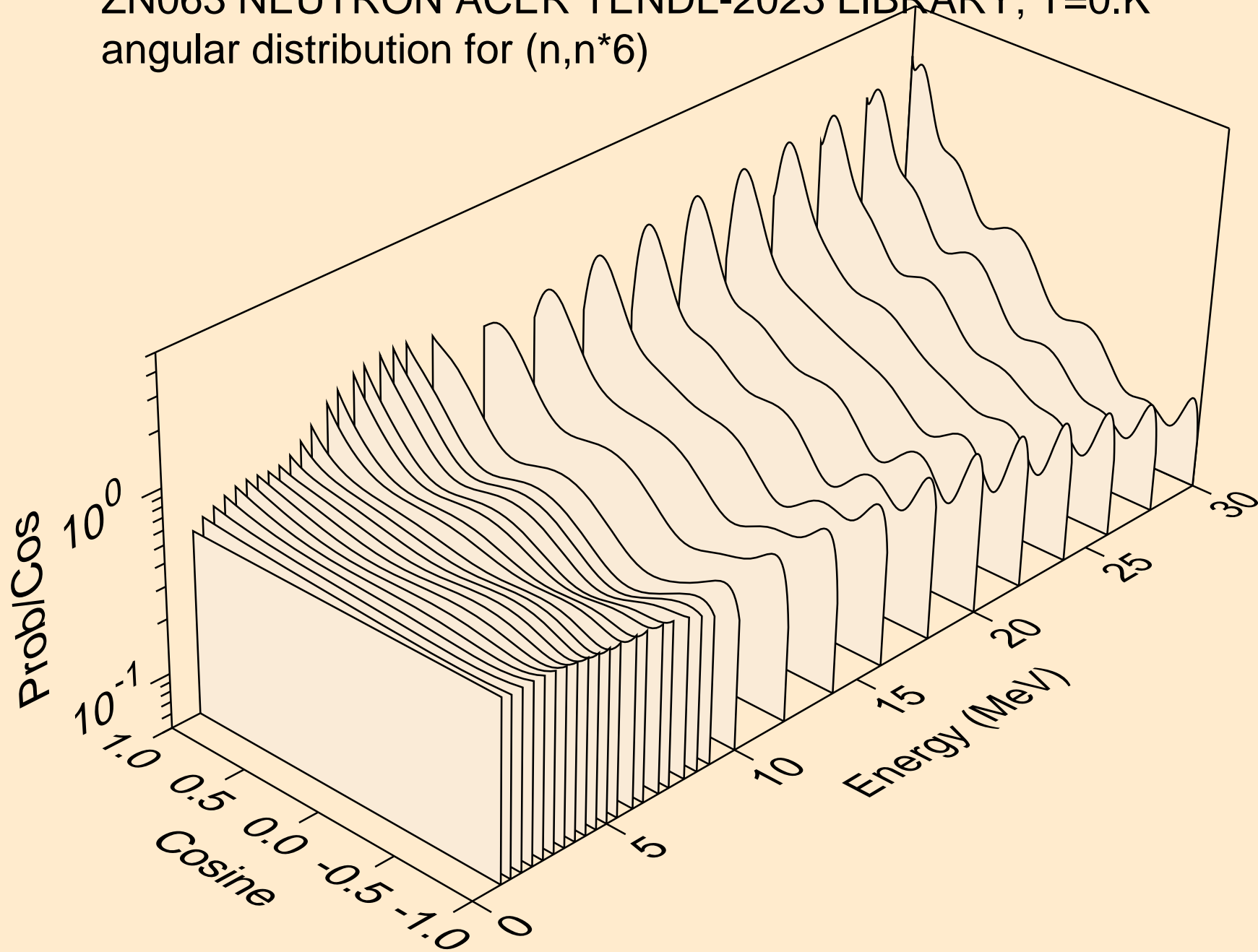
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angular distribution for (n,n\*4)



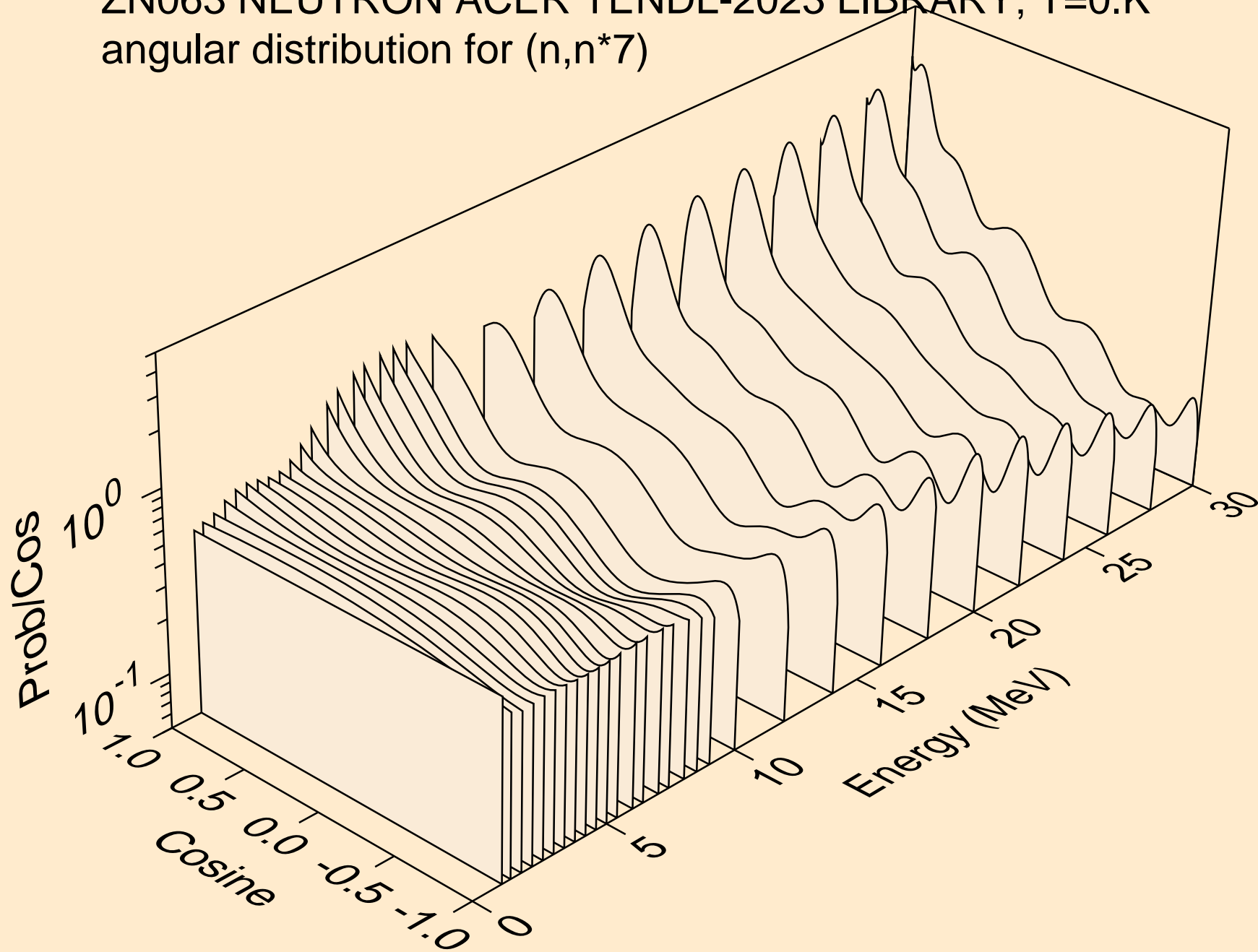
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angular distribution for (n,n\*5)



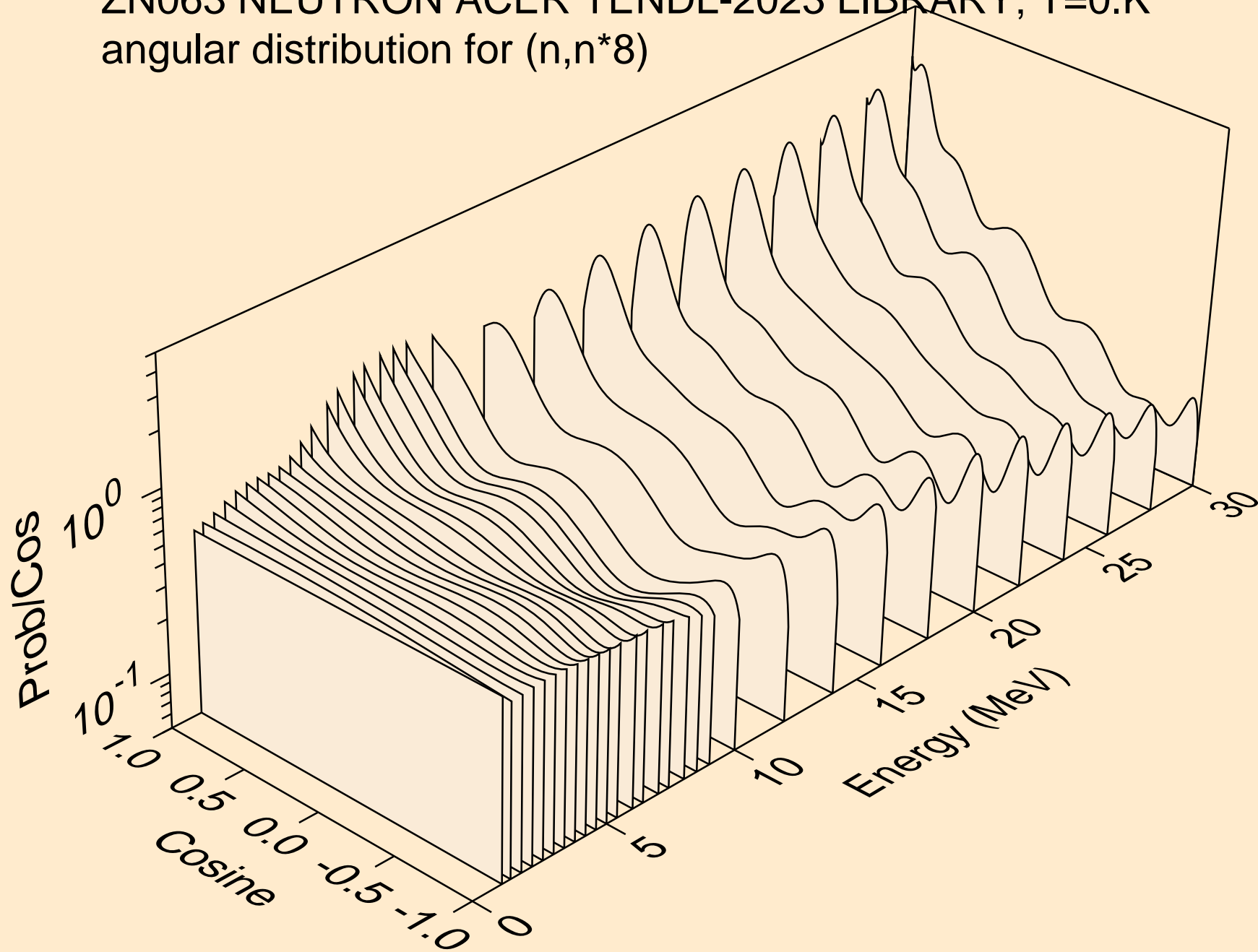
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angular distribution for (n,n\*6)



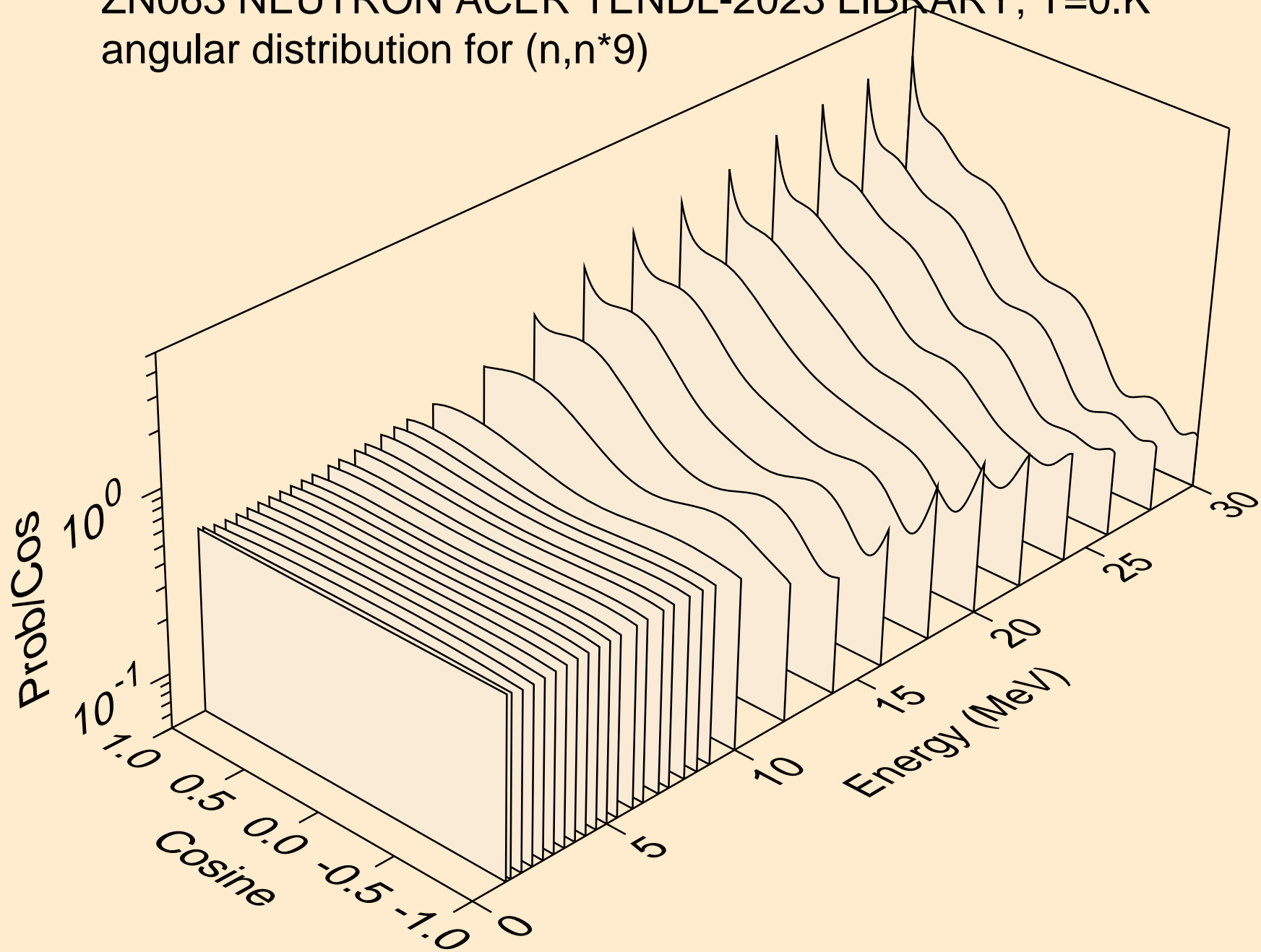
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angular distribution for (n,n\*7)



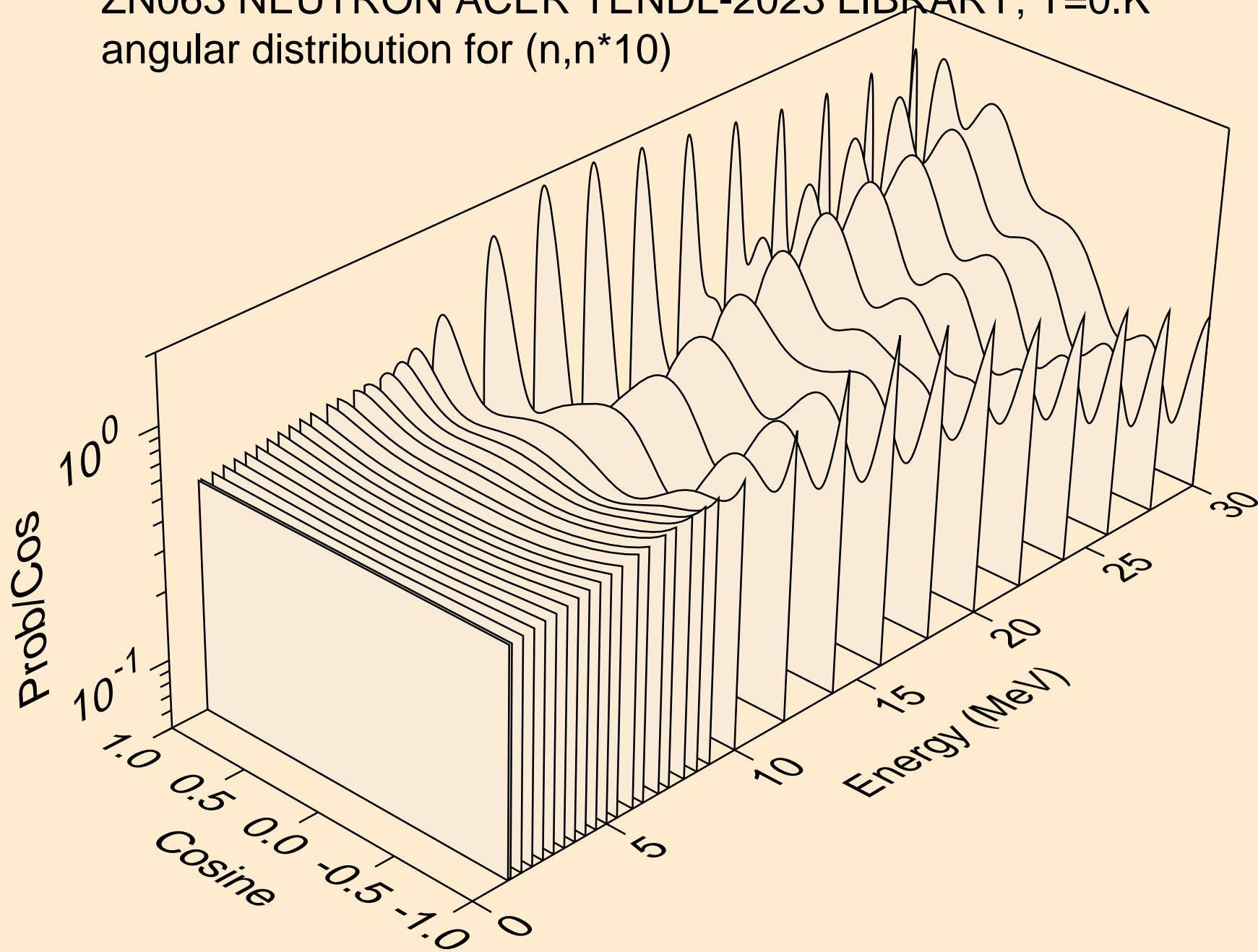
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angular distribution for (n,n\*8)



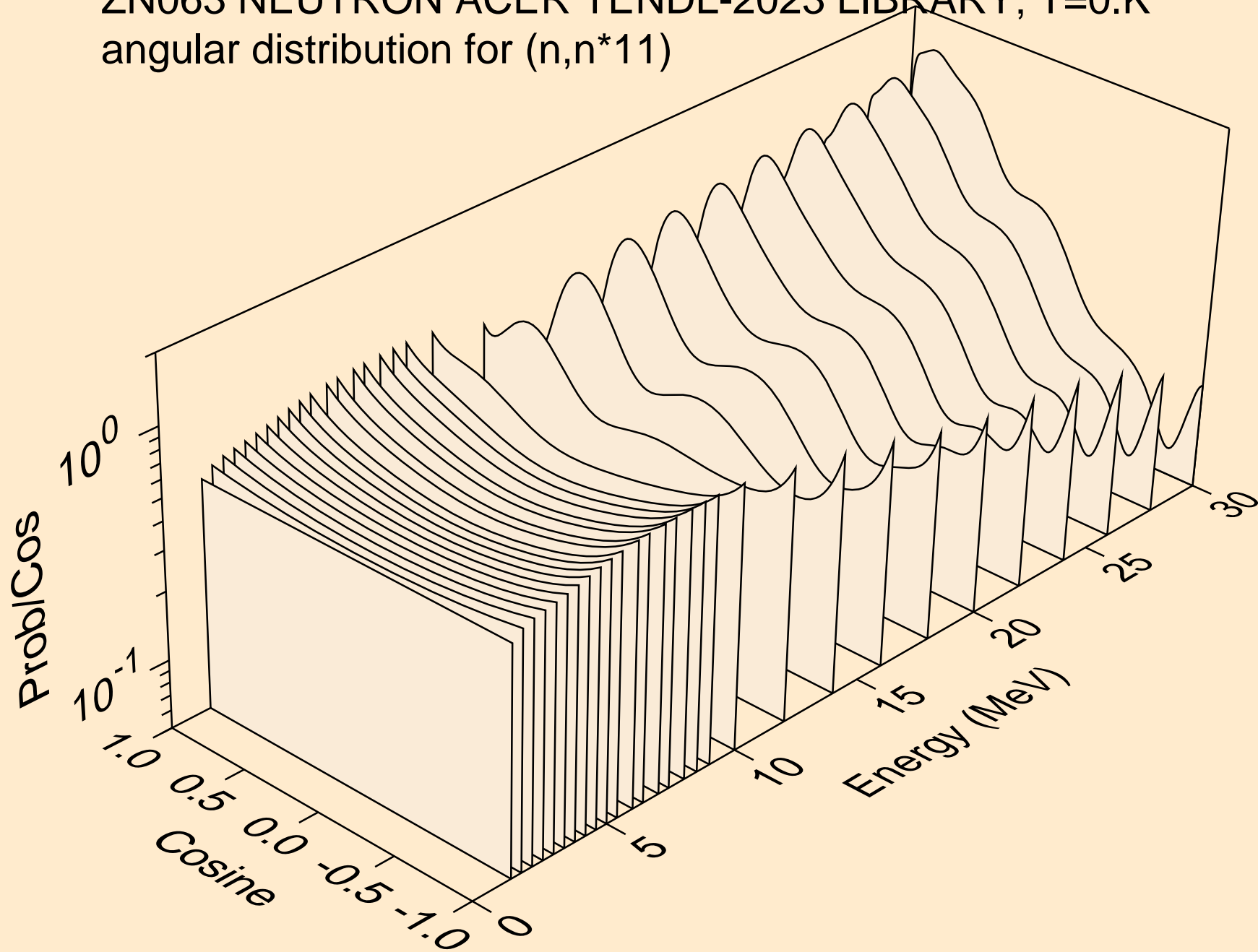
ZN063 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*9)



ZN063 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*10)

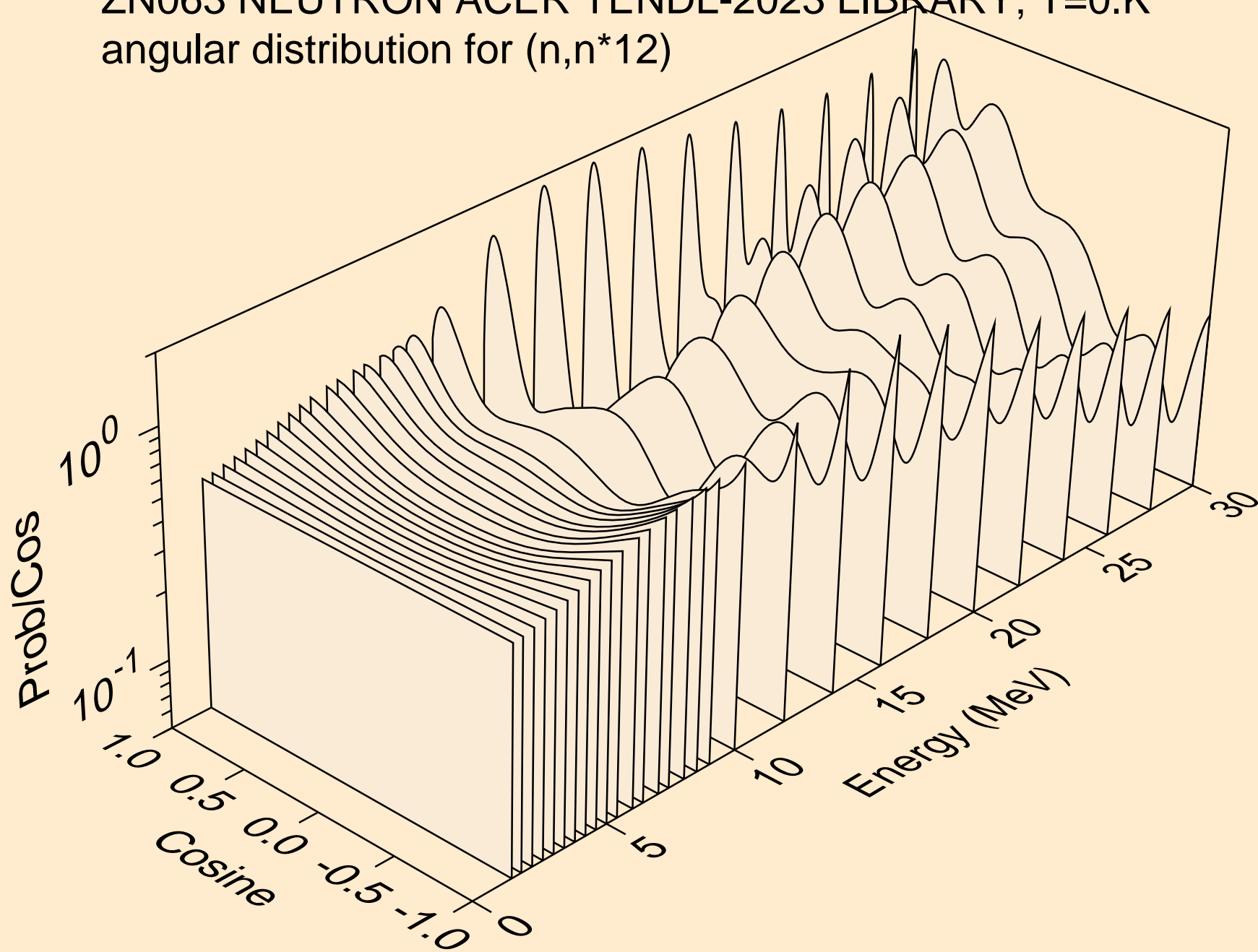


ZN063 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*11)

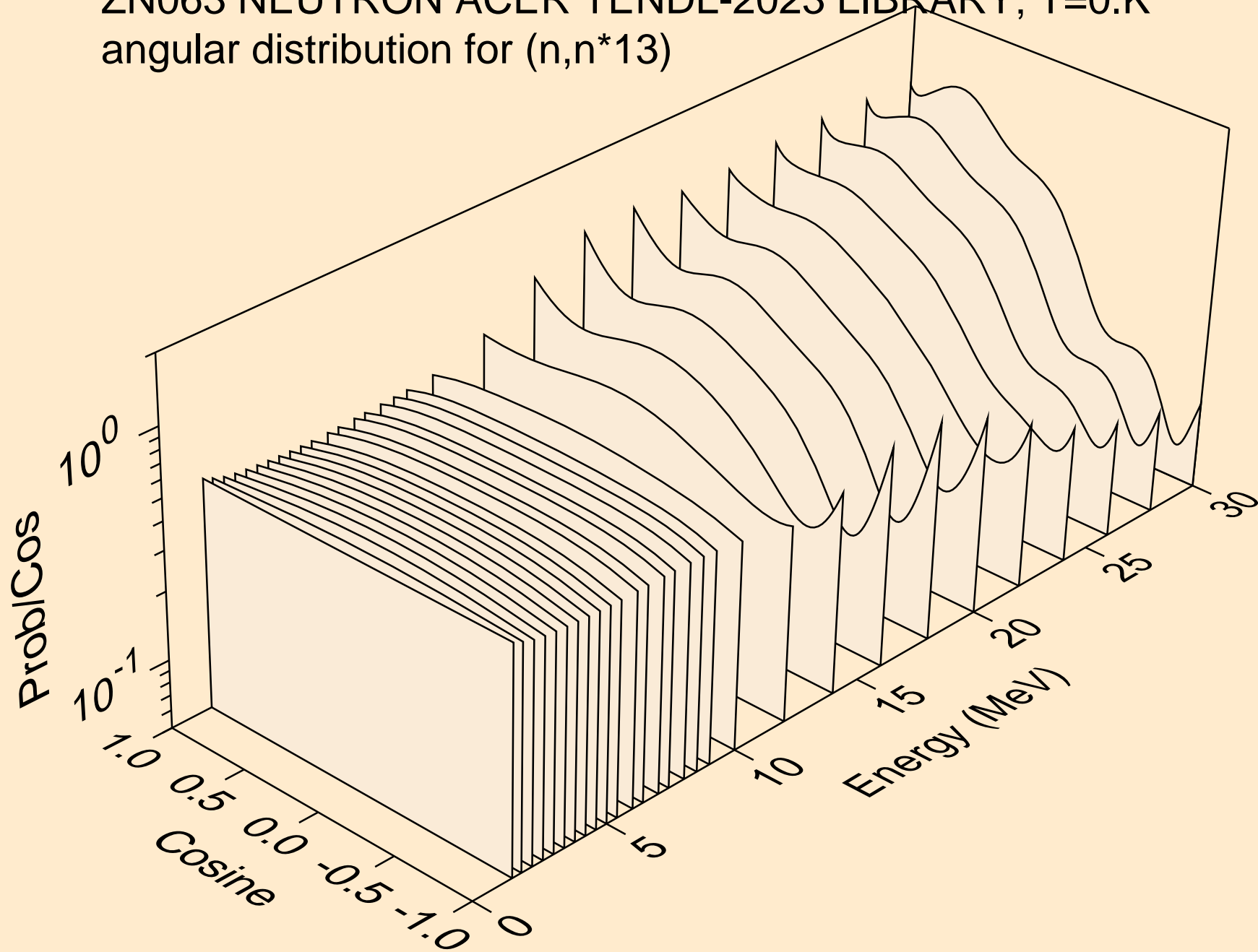




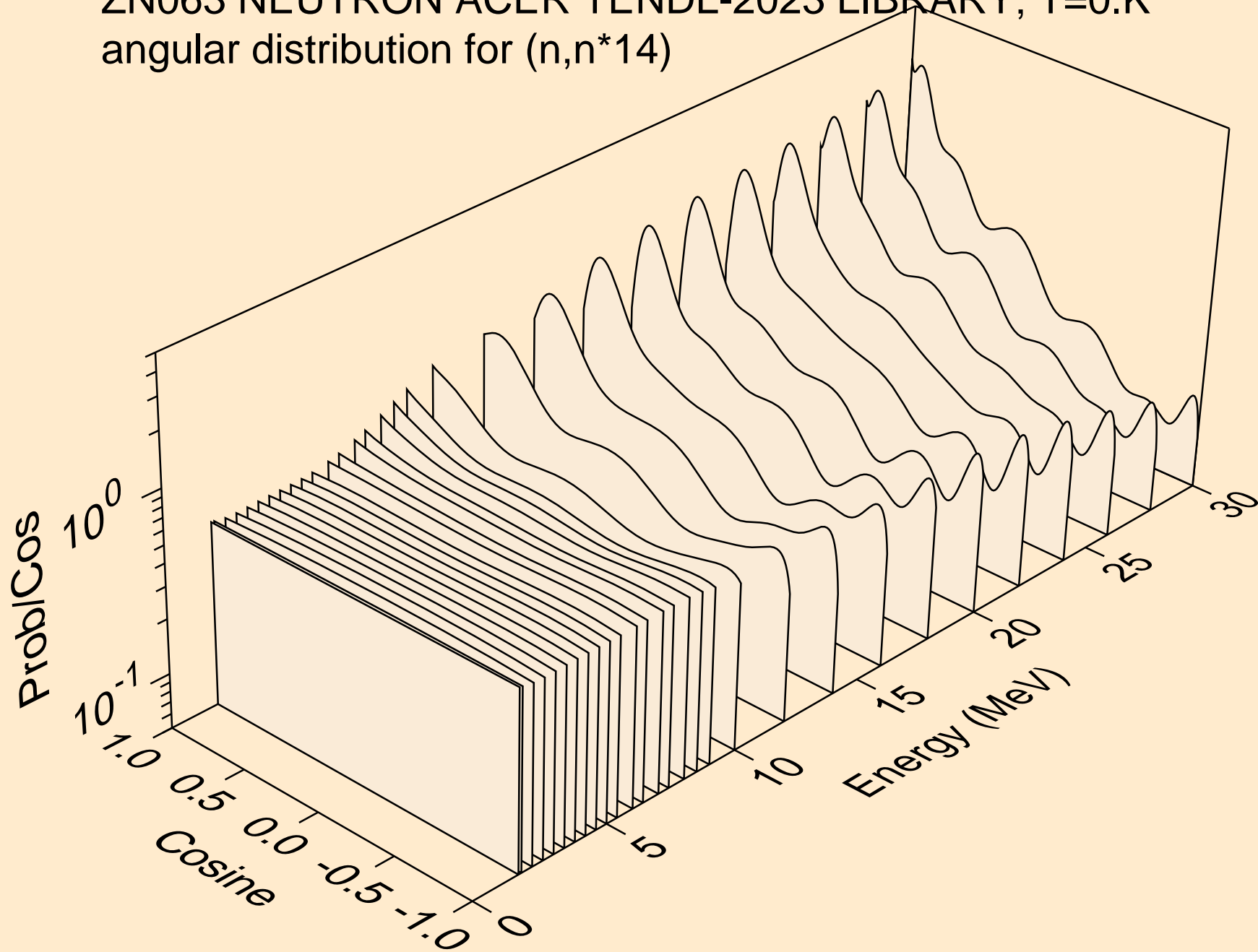
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angular distribution for (n,n\*12)



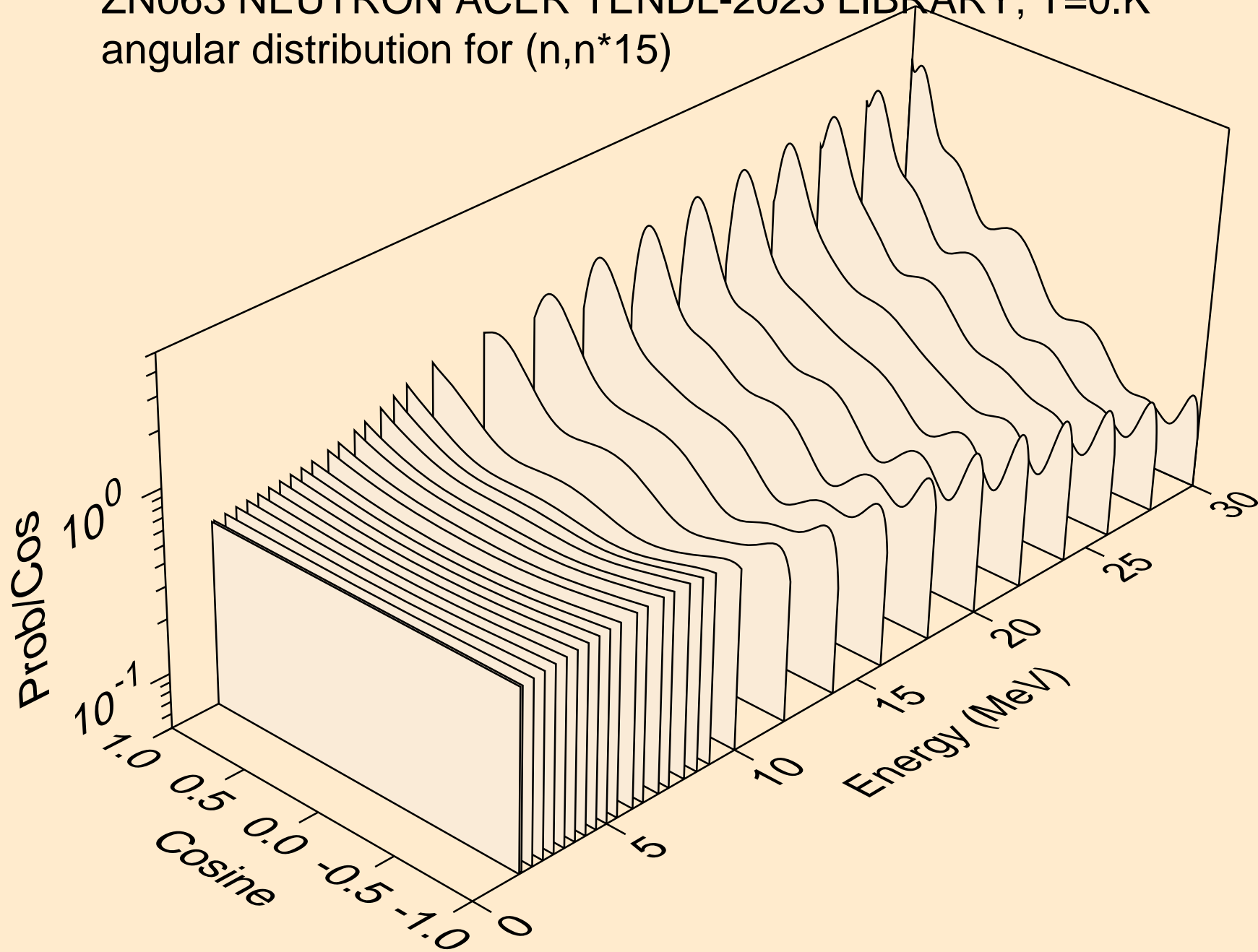
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angular distribution for (n,n\*13)



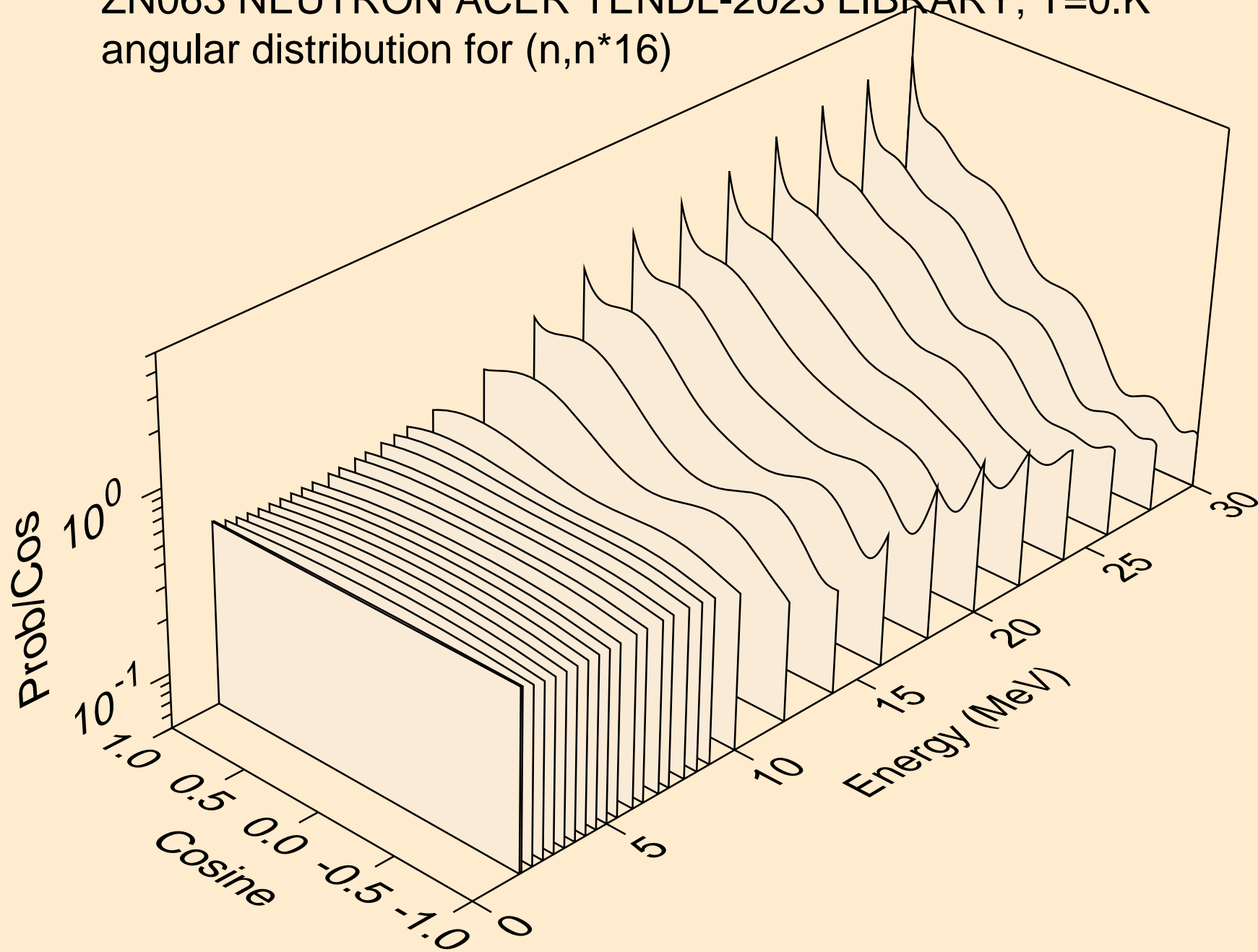
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angular distribution for (n,n\*14)



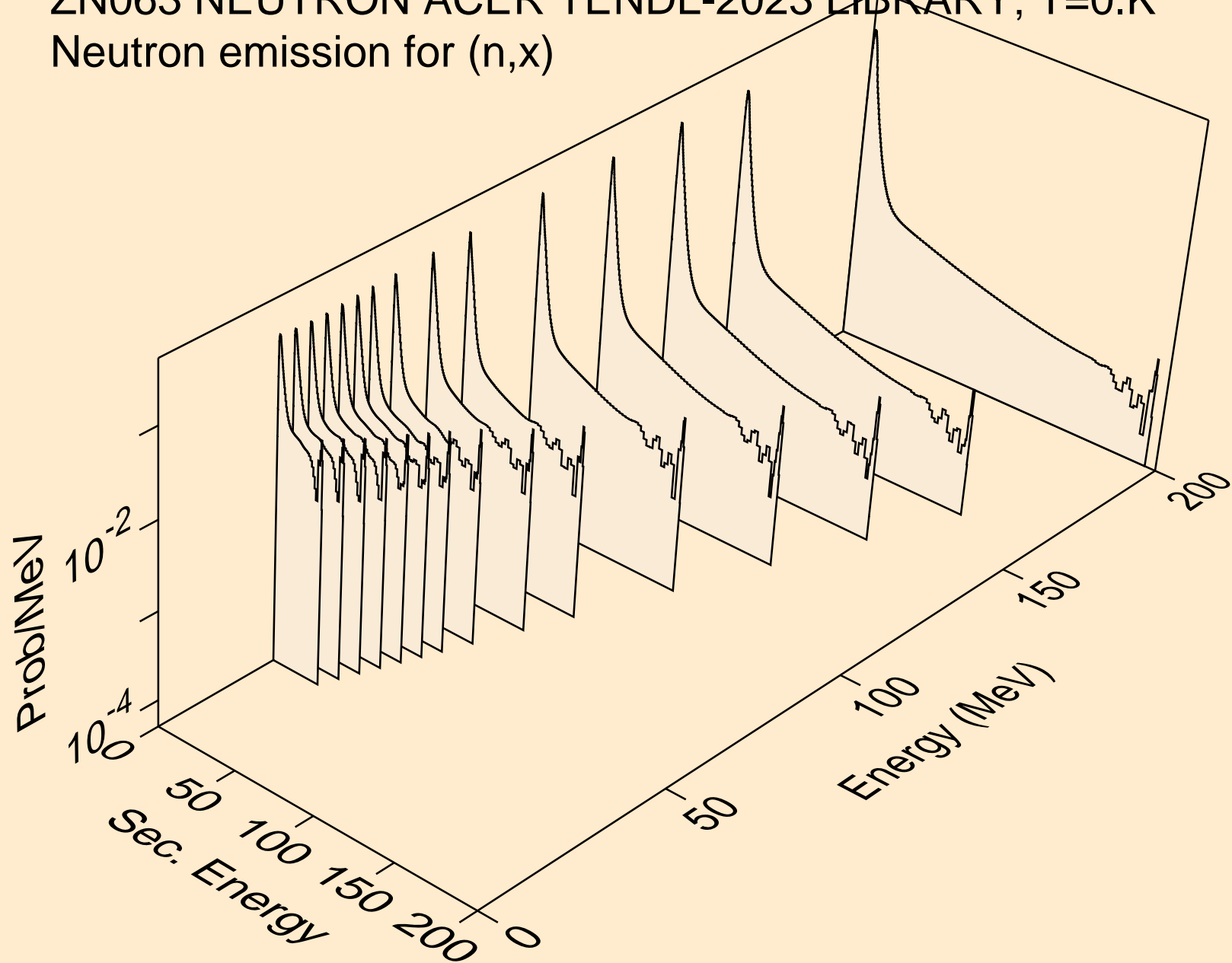
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angular distribution for (n,n\*15)



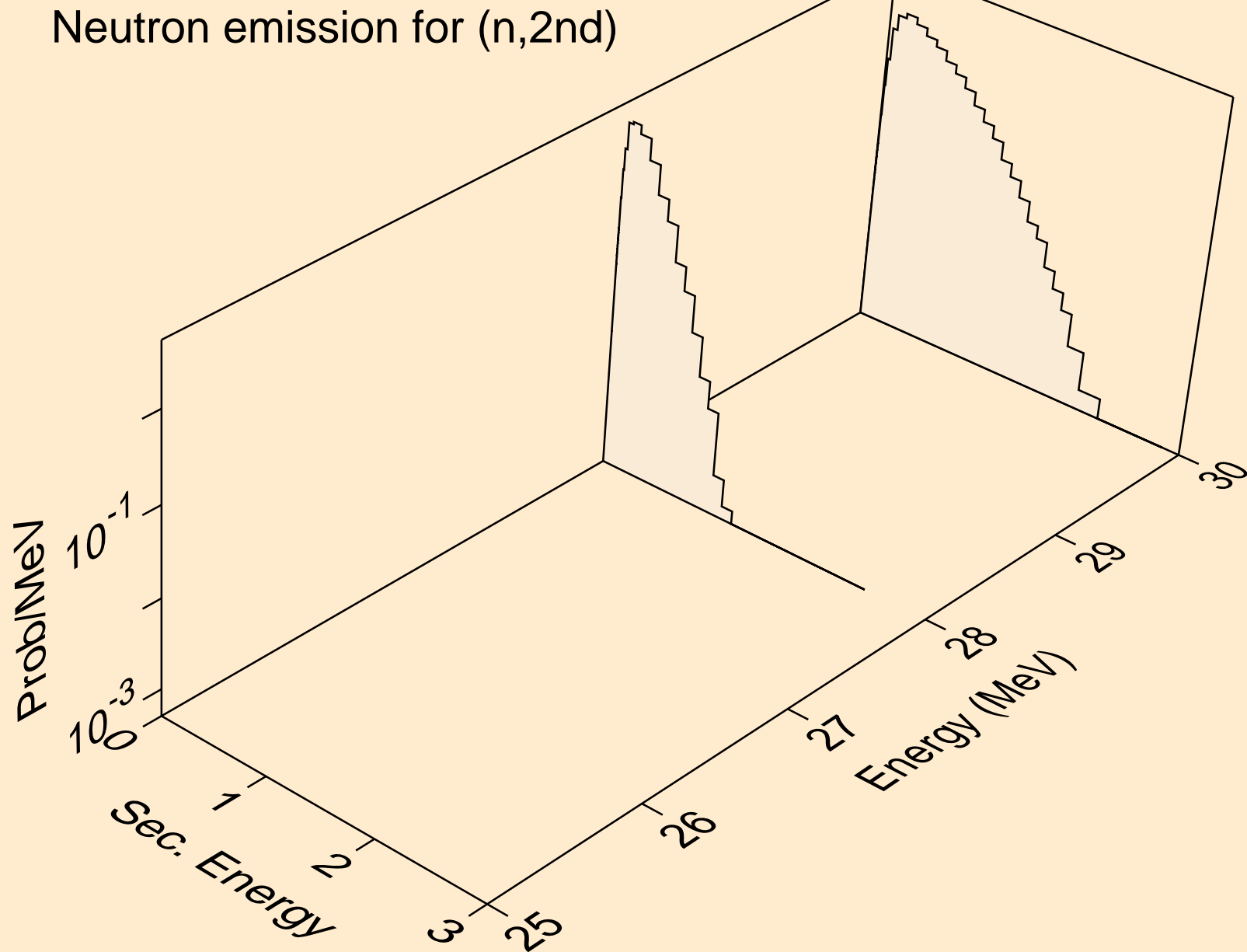
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angular distribution for (n,n\*16)



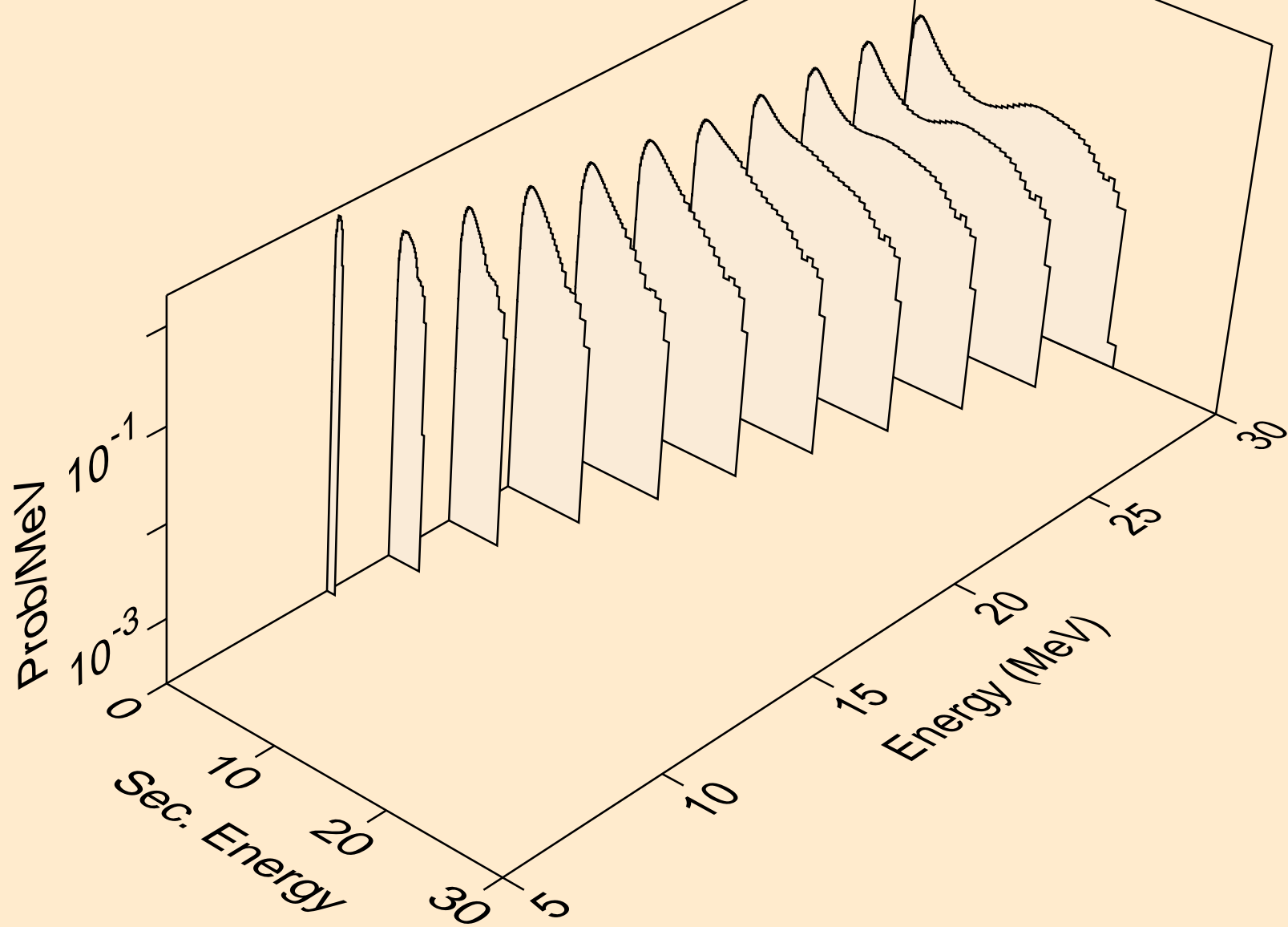
ZN063 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,x)



ZN063 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,2nd)

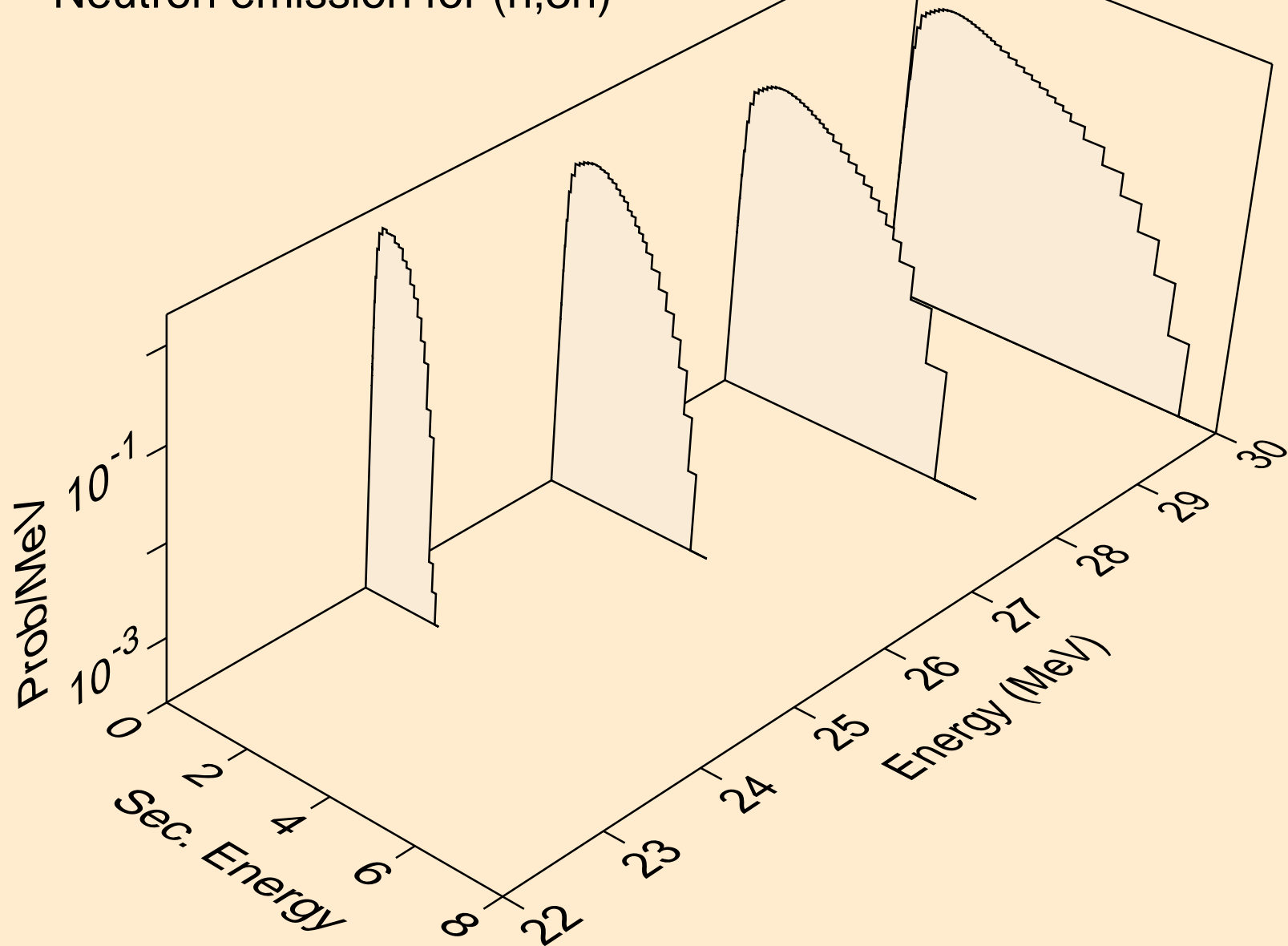


ZN063 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,2n)

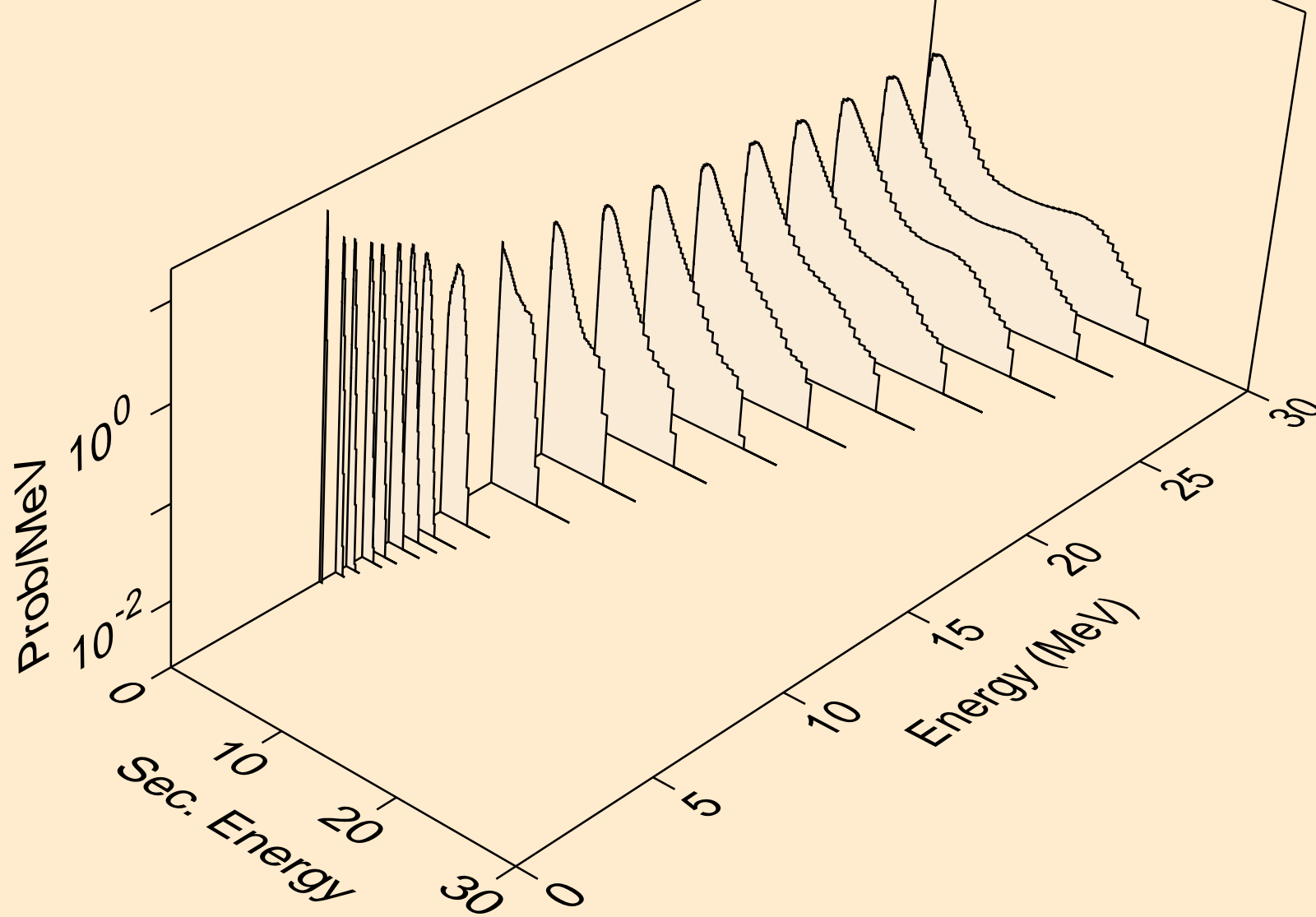




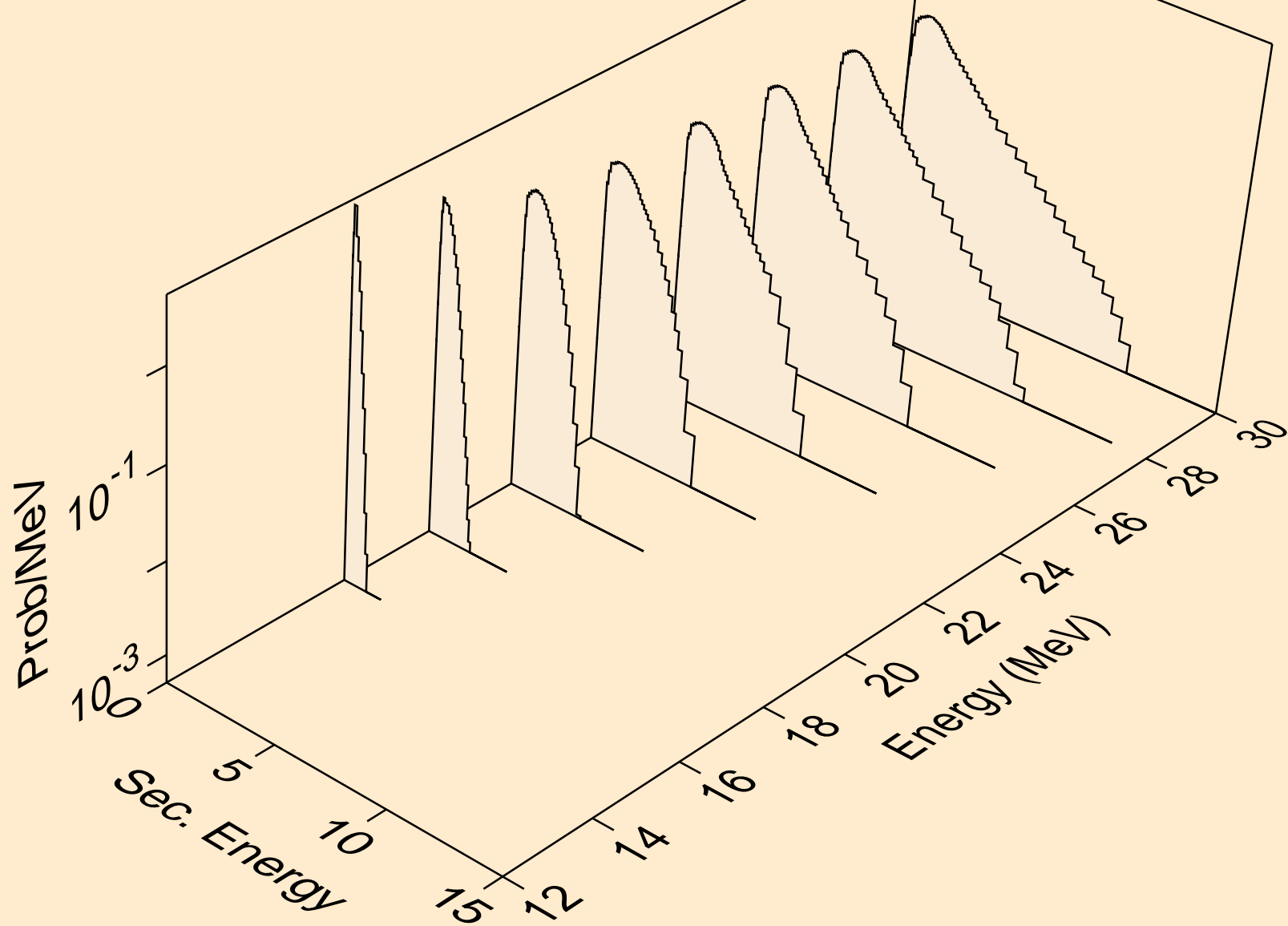
ZN063 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,3n)



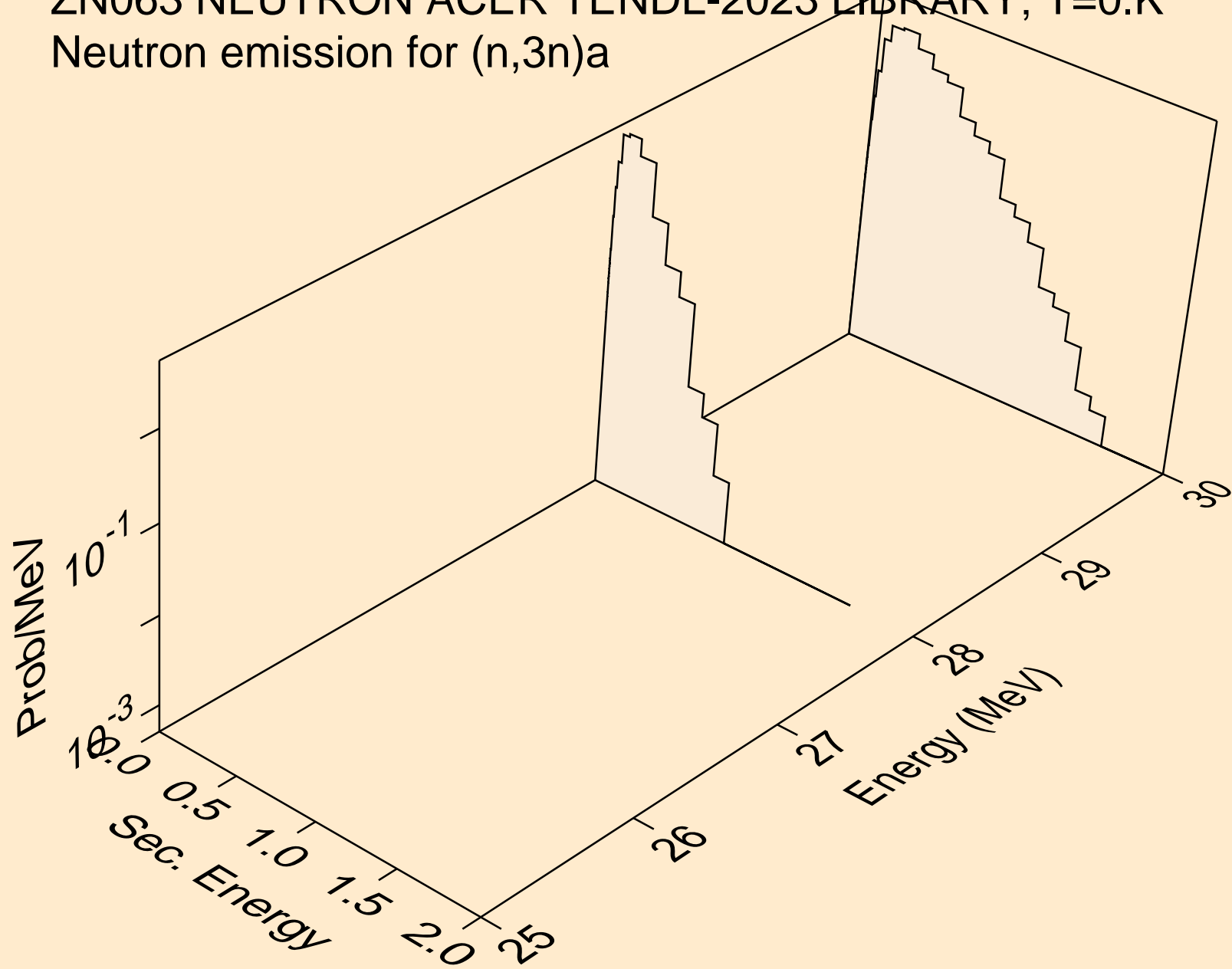
ZN063 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,n\*)a



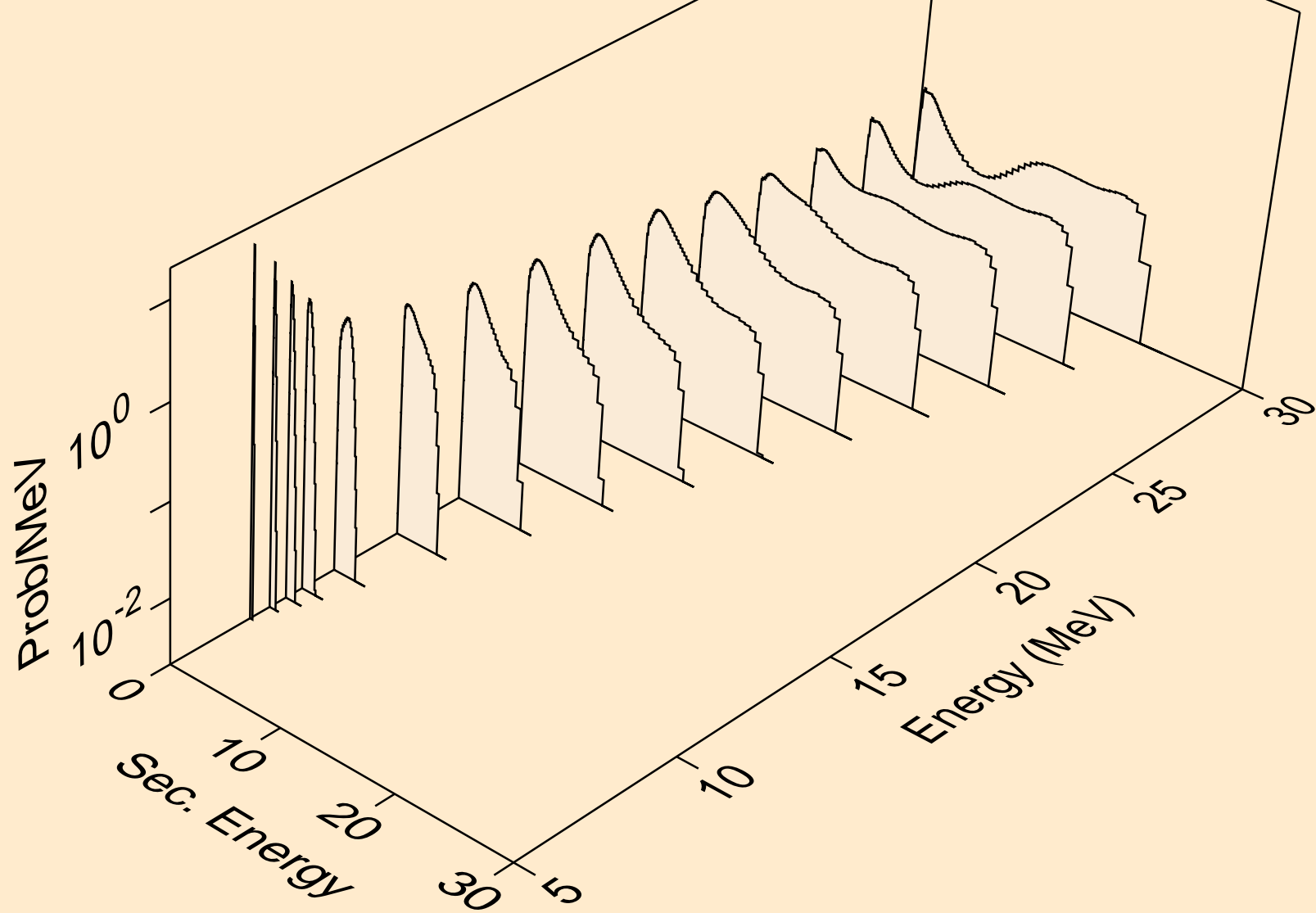
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Neutron emission for (n,2n)a



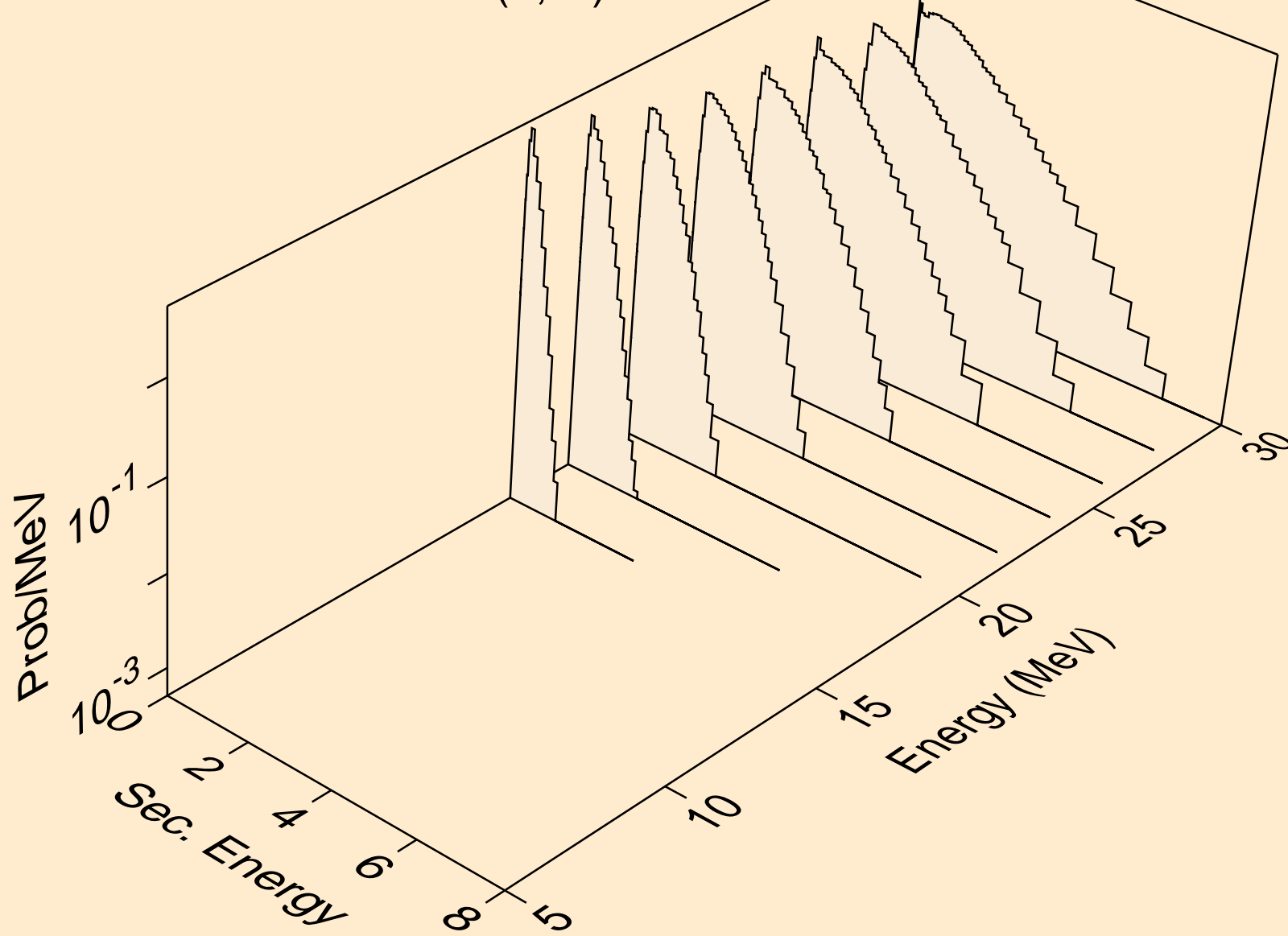
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Neutron emission for (n,3n)a



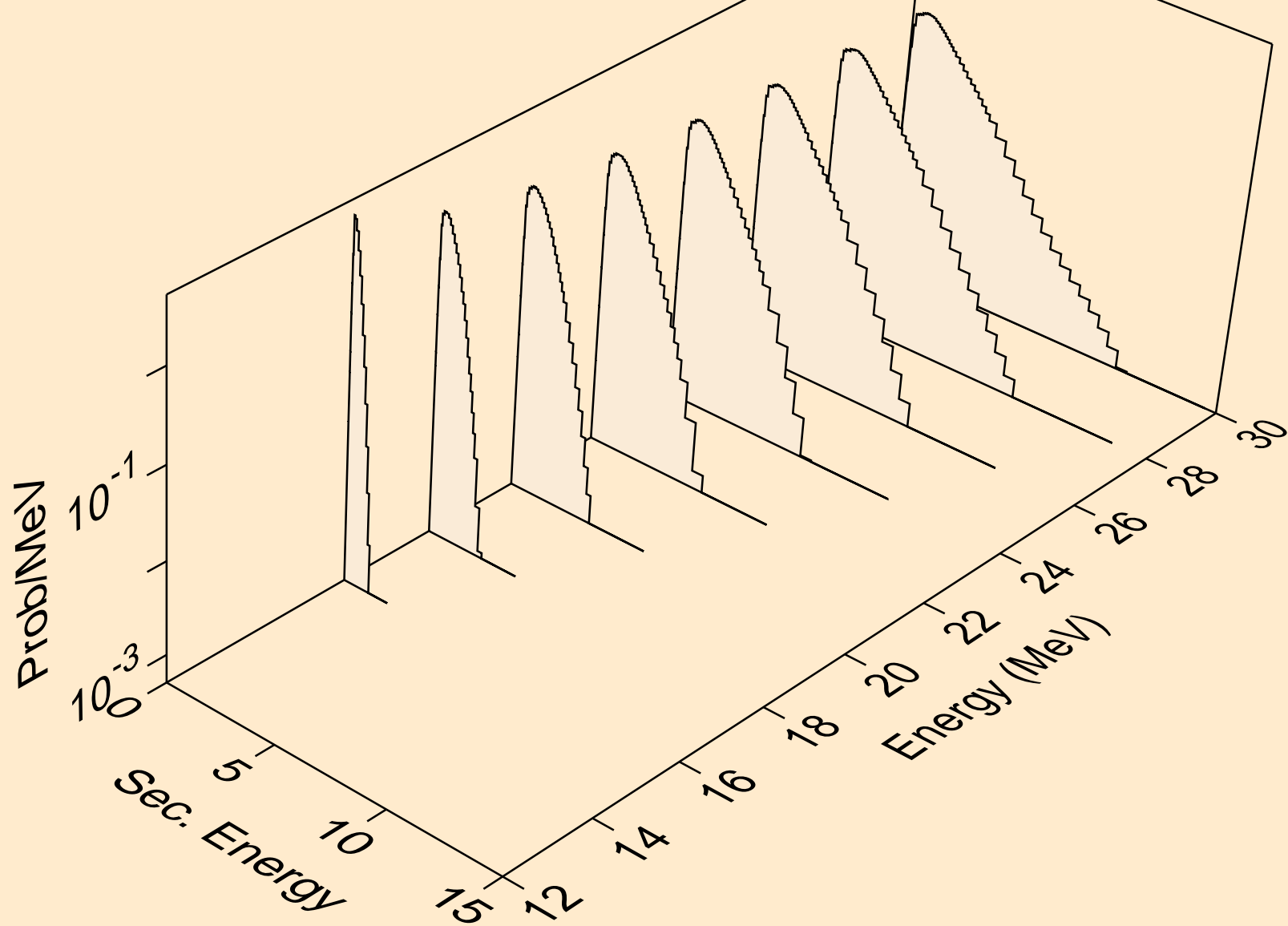
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Neutron emission for (n,n\*)p



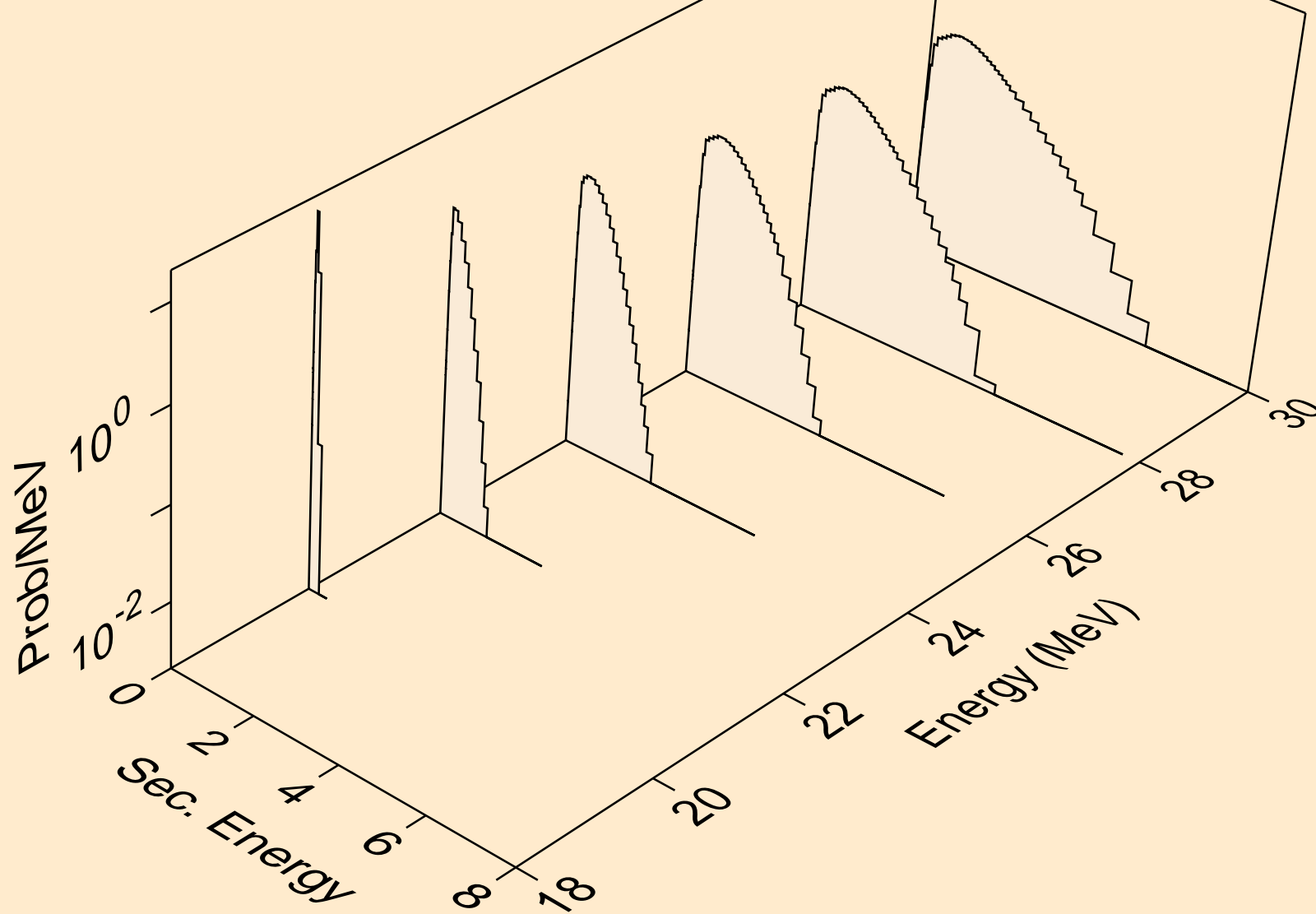
ZN063 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,n\*)2a



ZN063 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,n\*)d

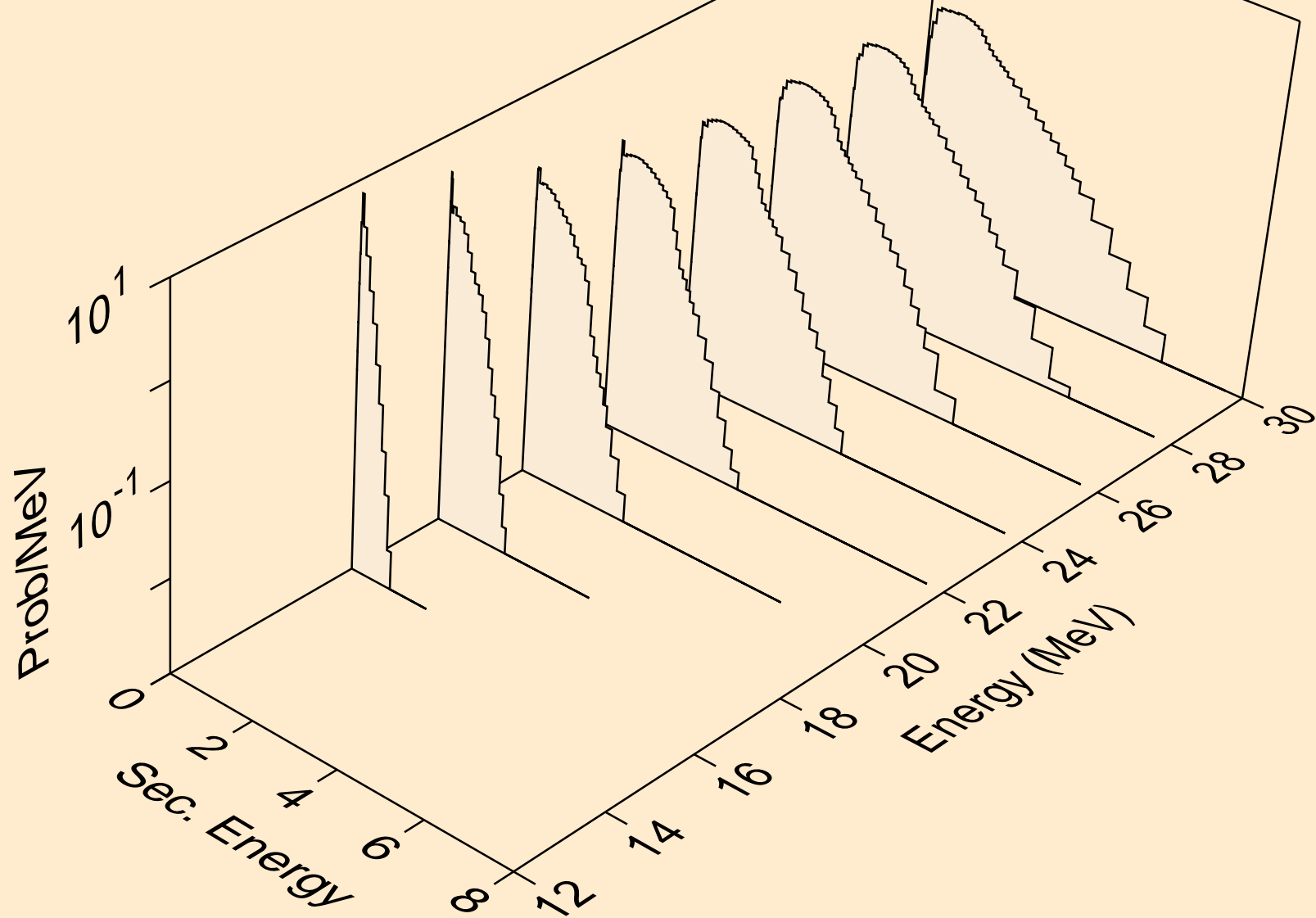


ZN063 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,n\*)t

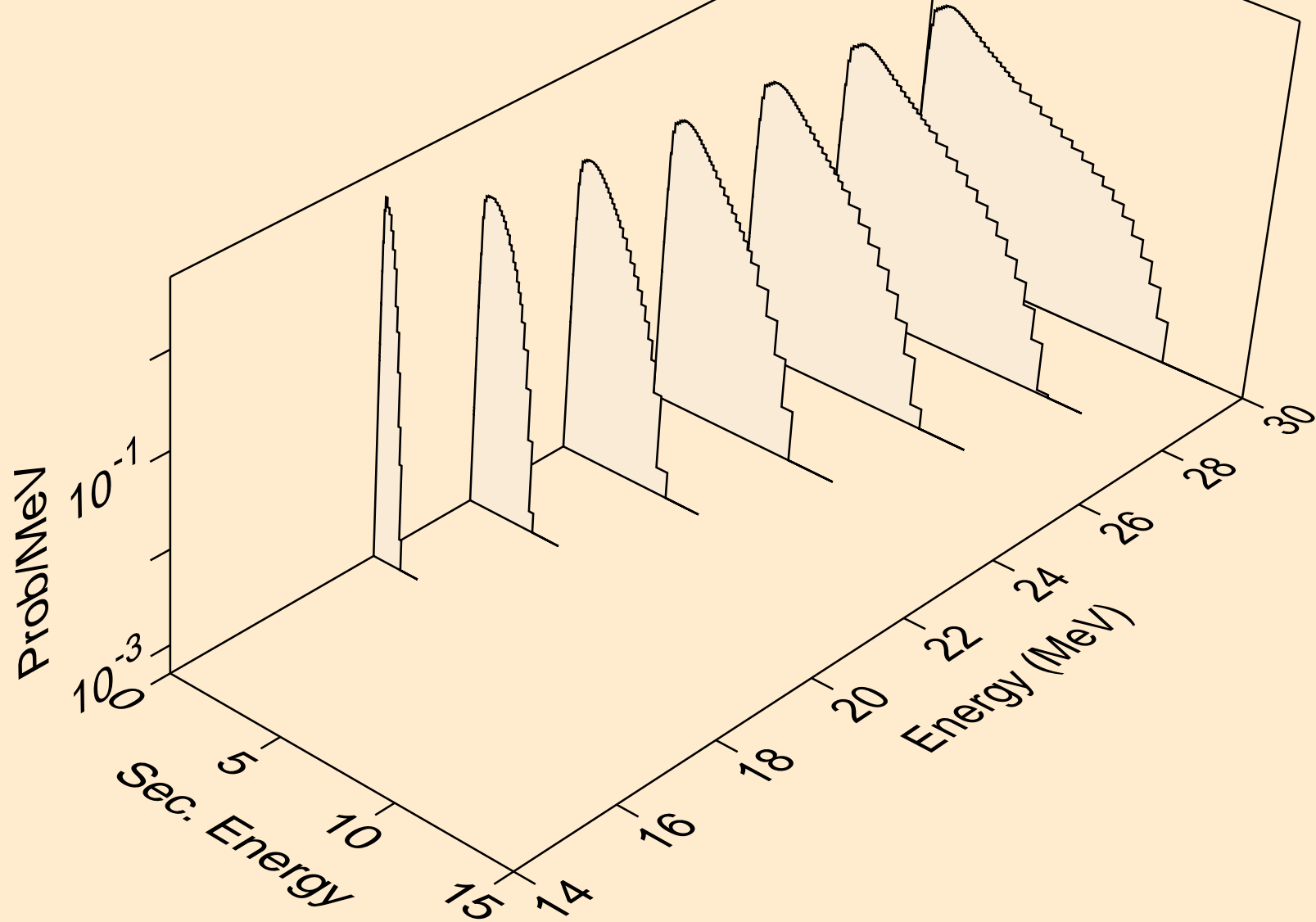




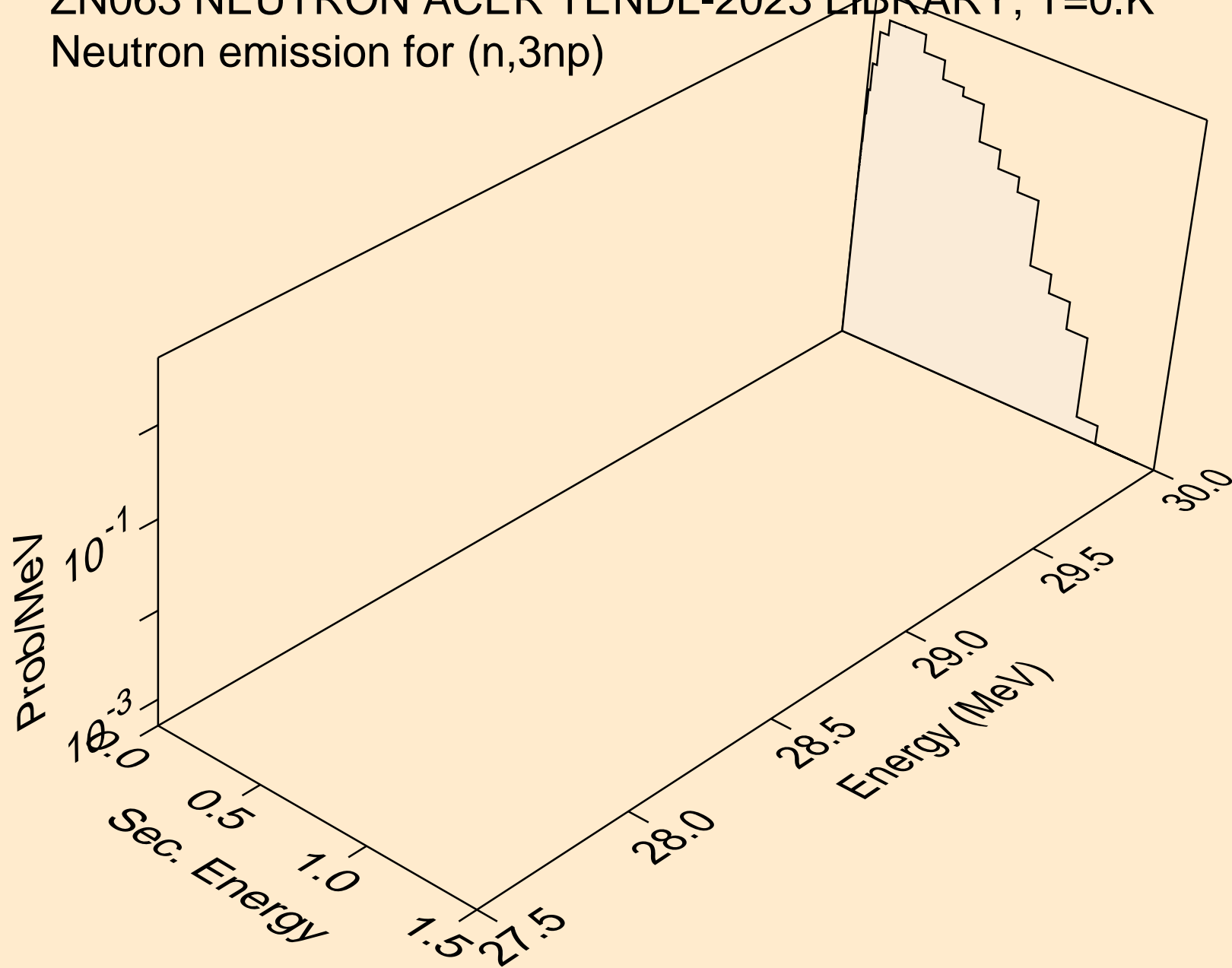
ZN063 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,n\*)he3



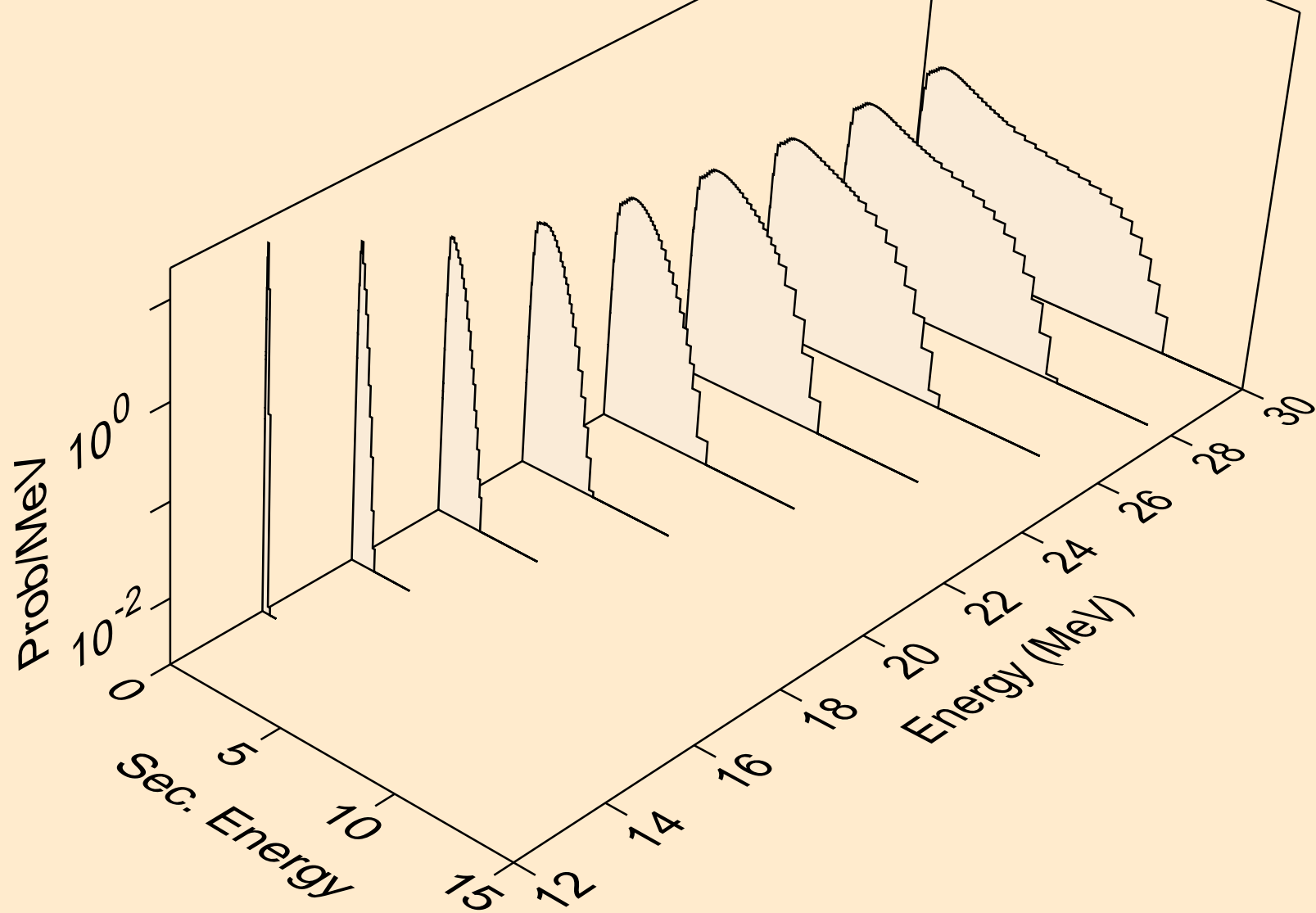
ZN063 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,2np)



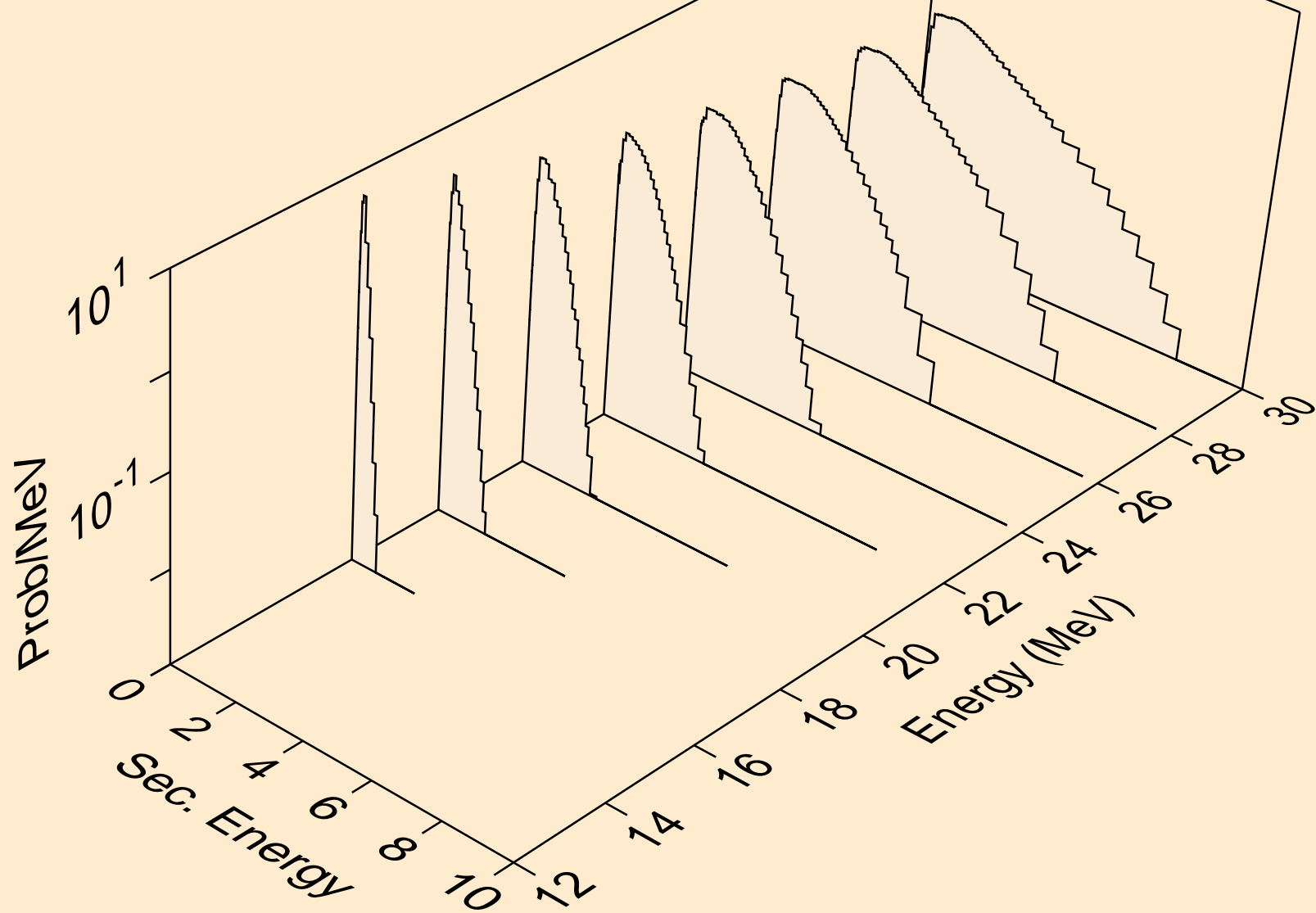
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Neutron emission for (n,3np)



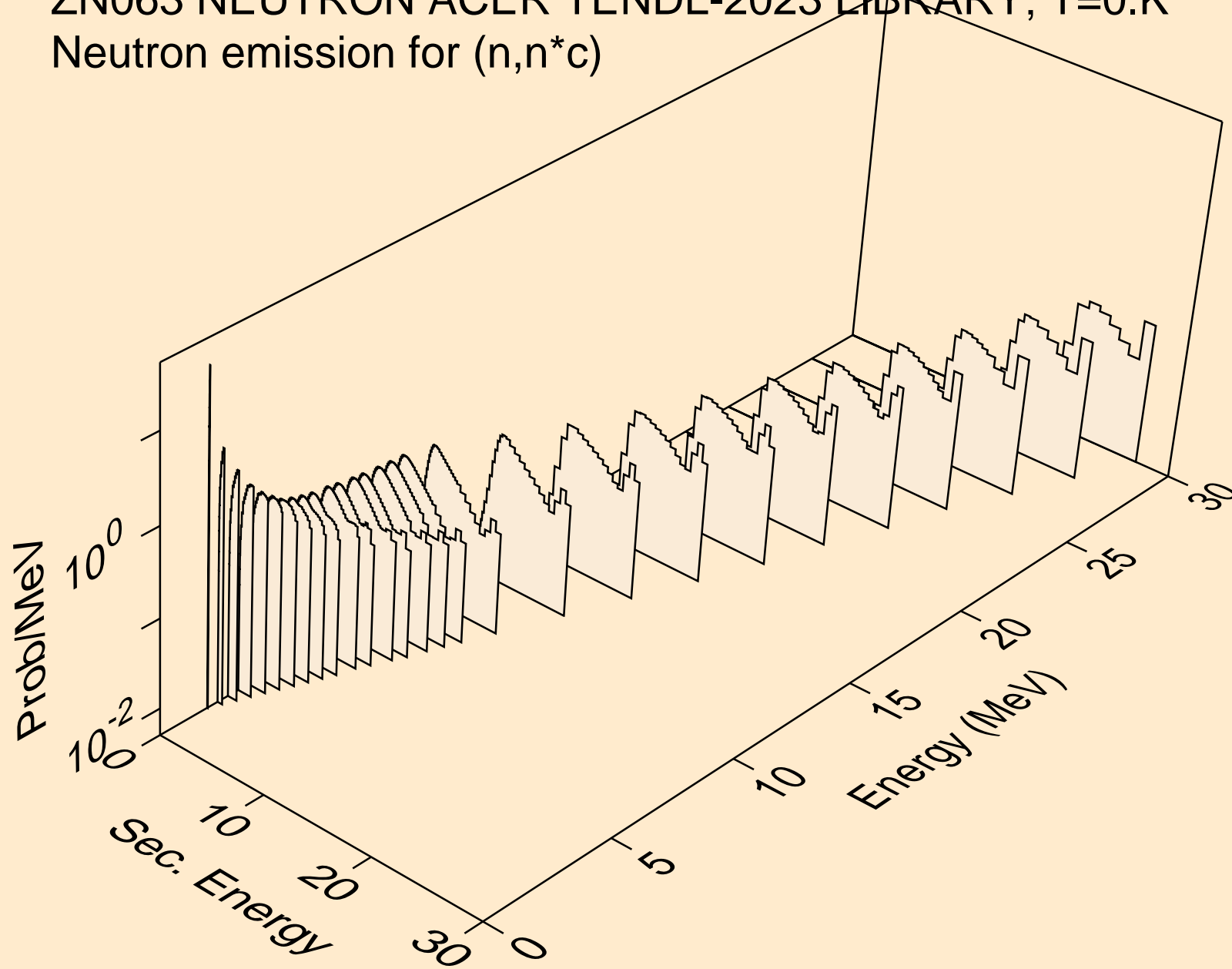
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Neutron emission for (n,n2p)



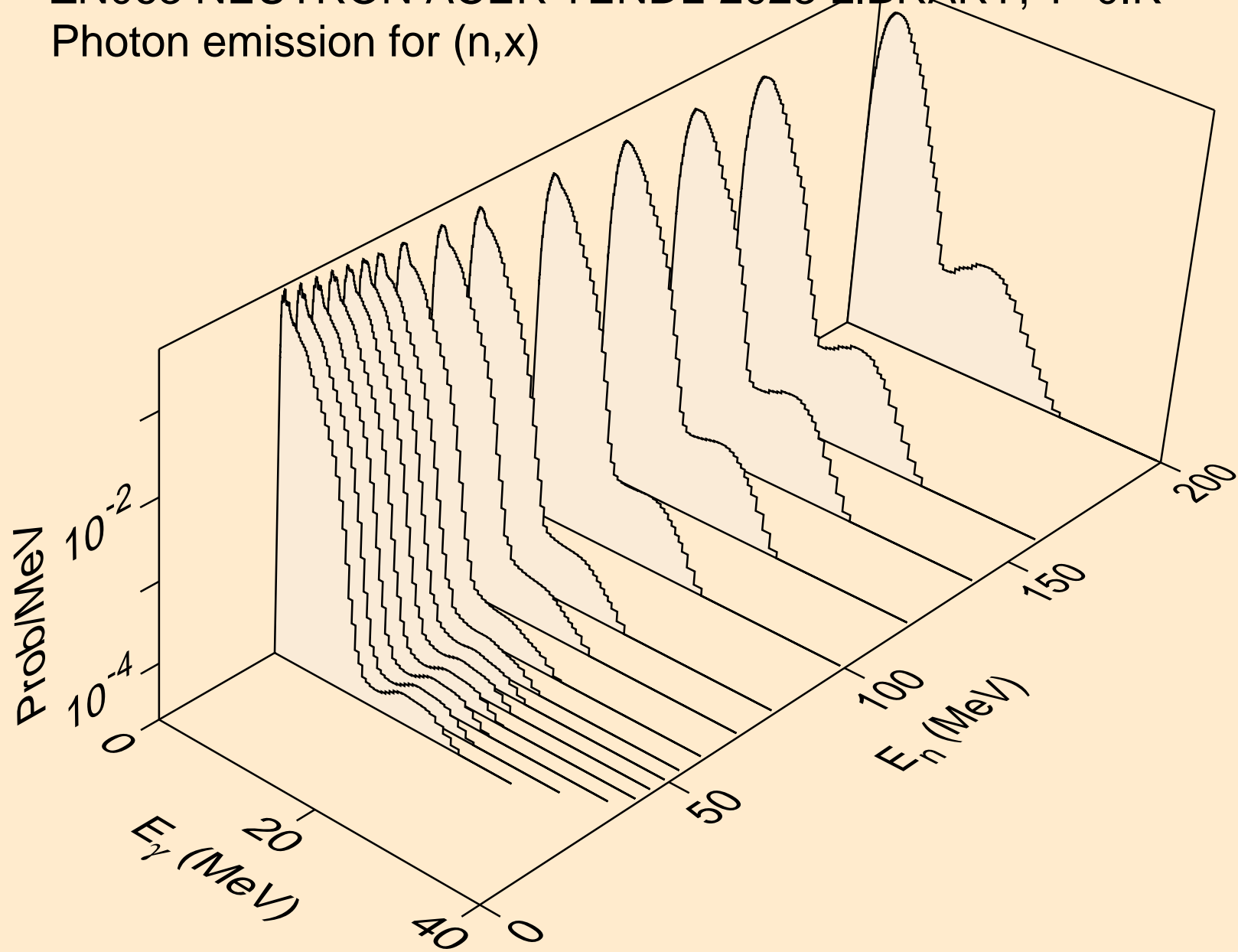
ZN063 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,npa)



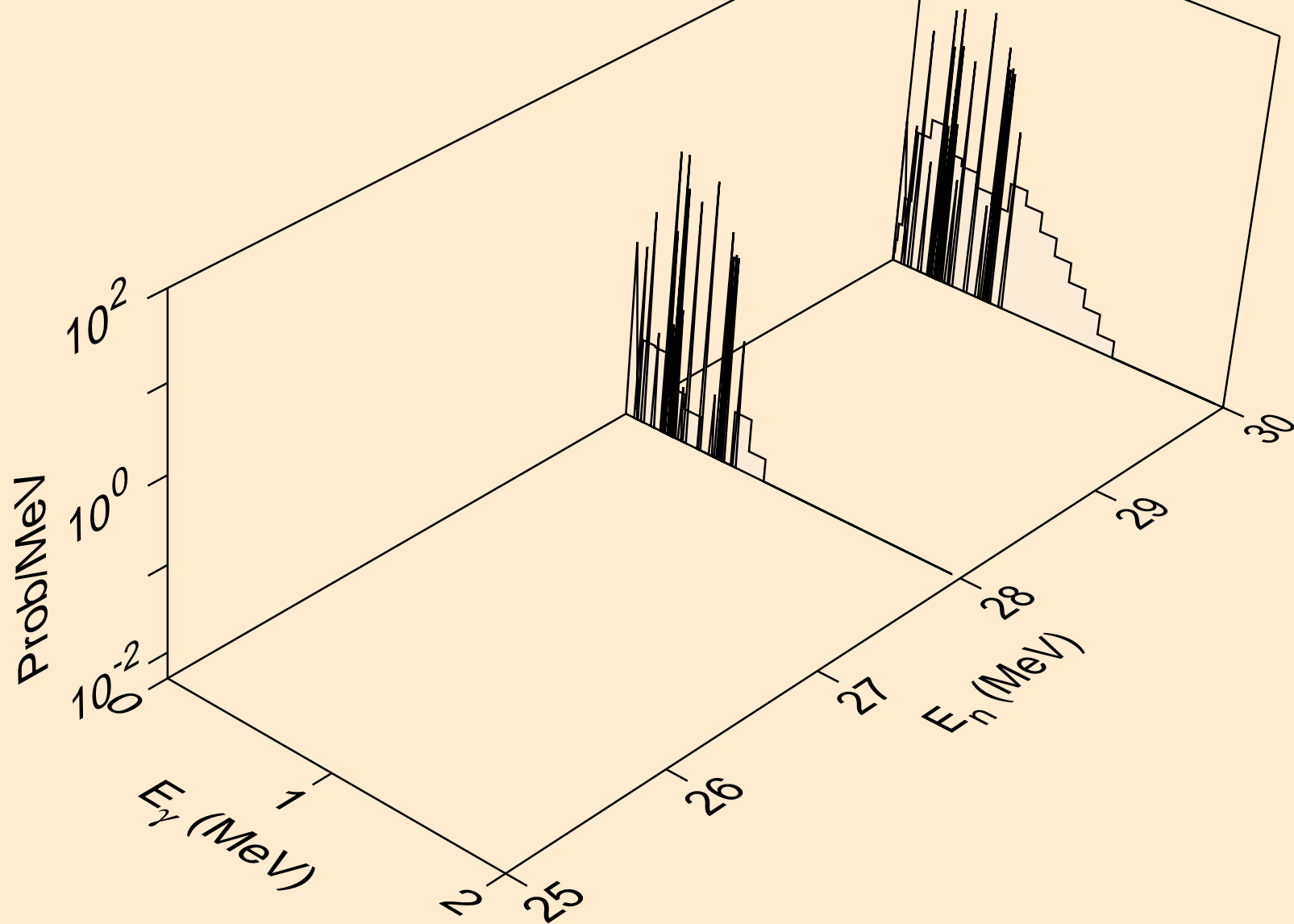
ZN063 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,n\*c)



ZN063 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,x)

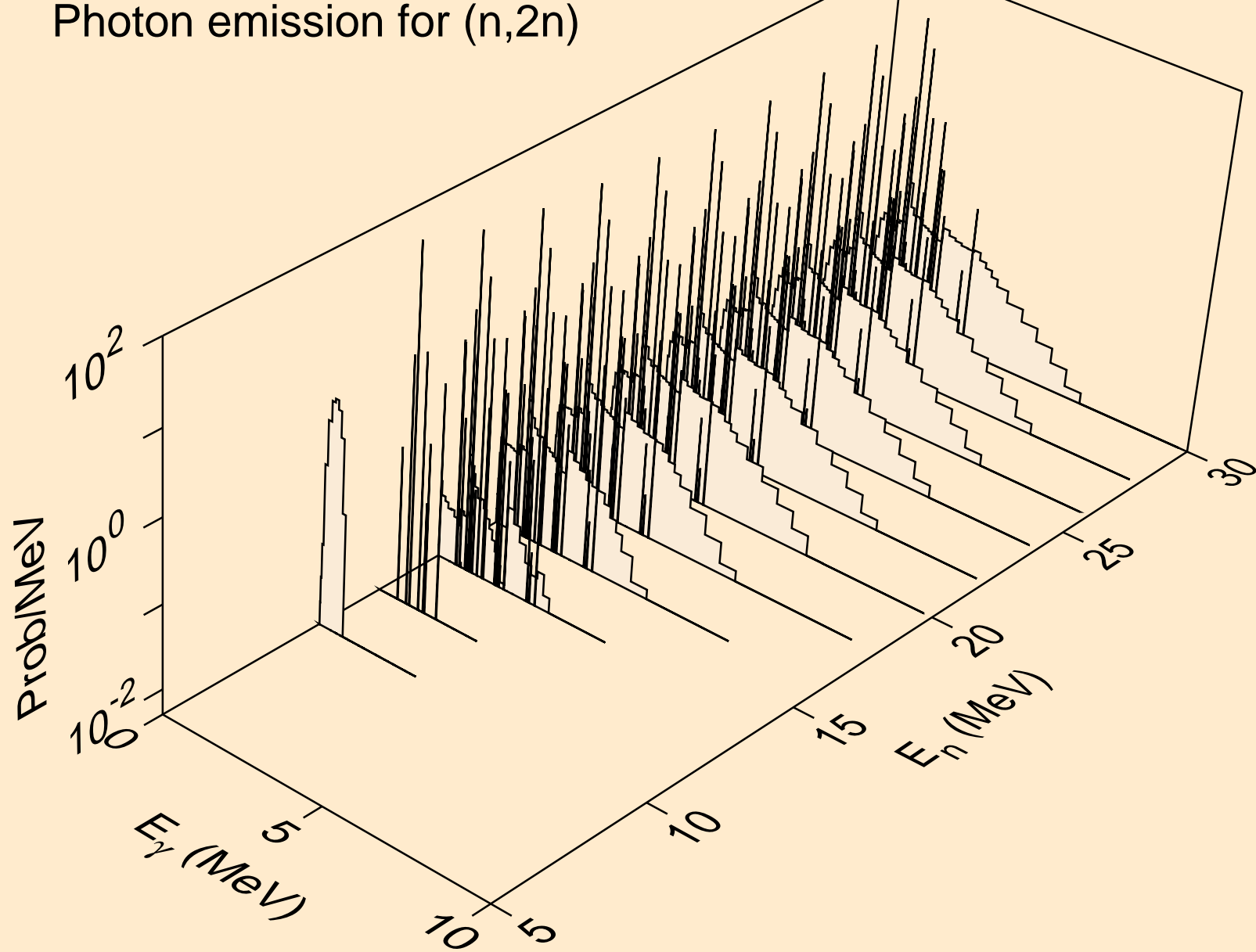


ZN063 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2nd)

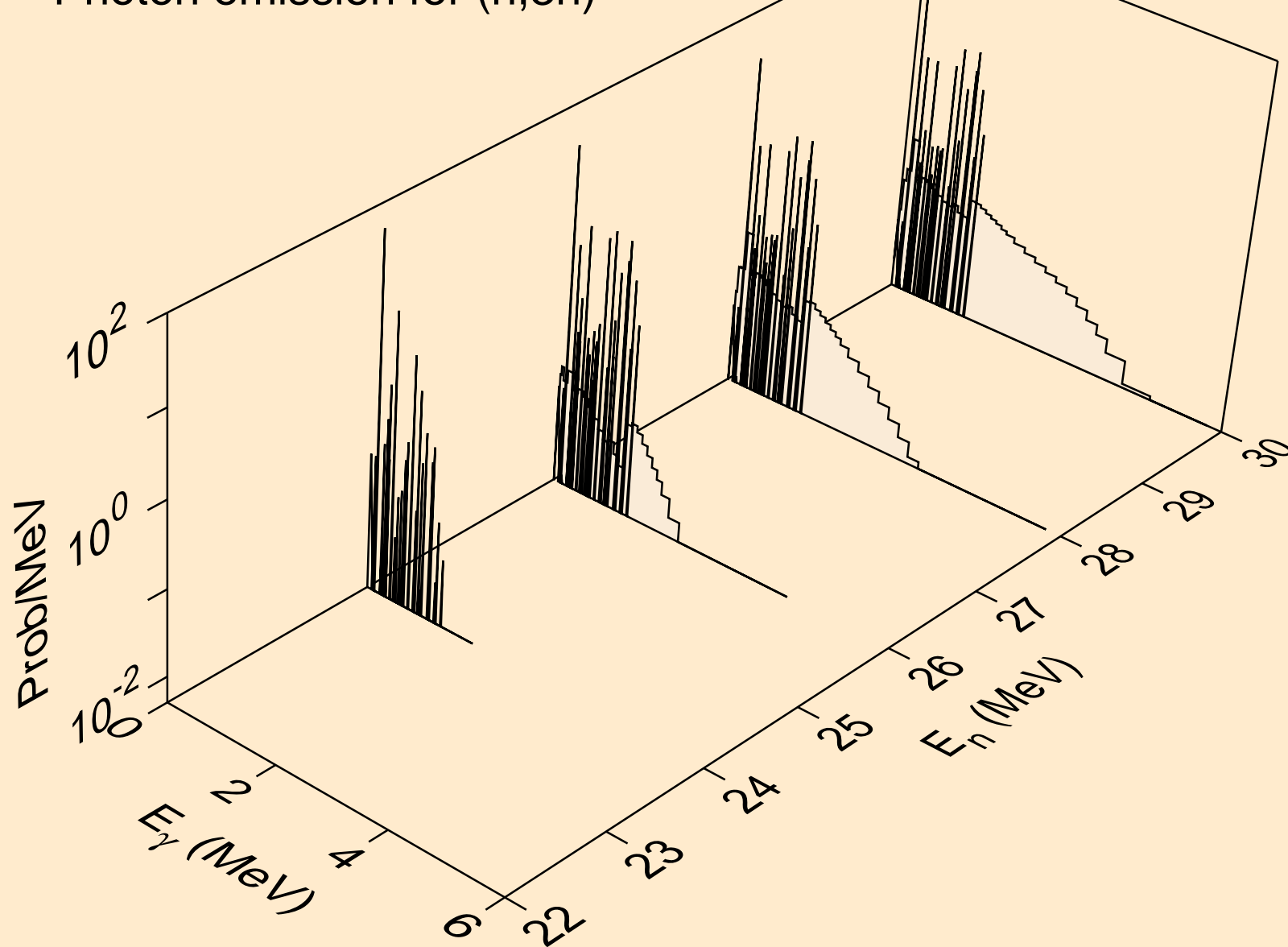




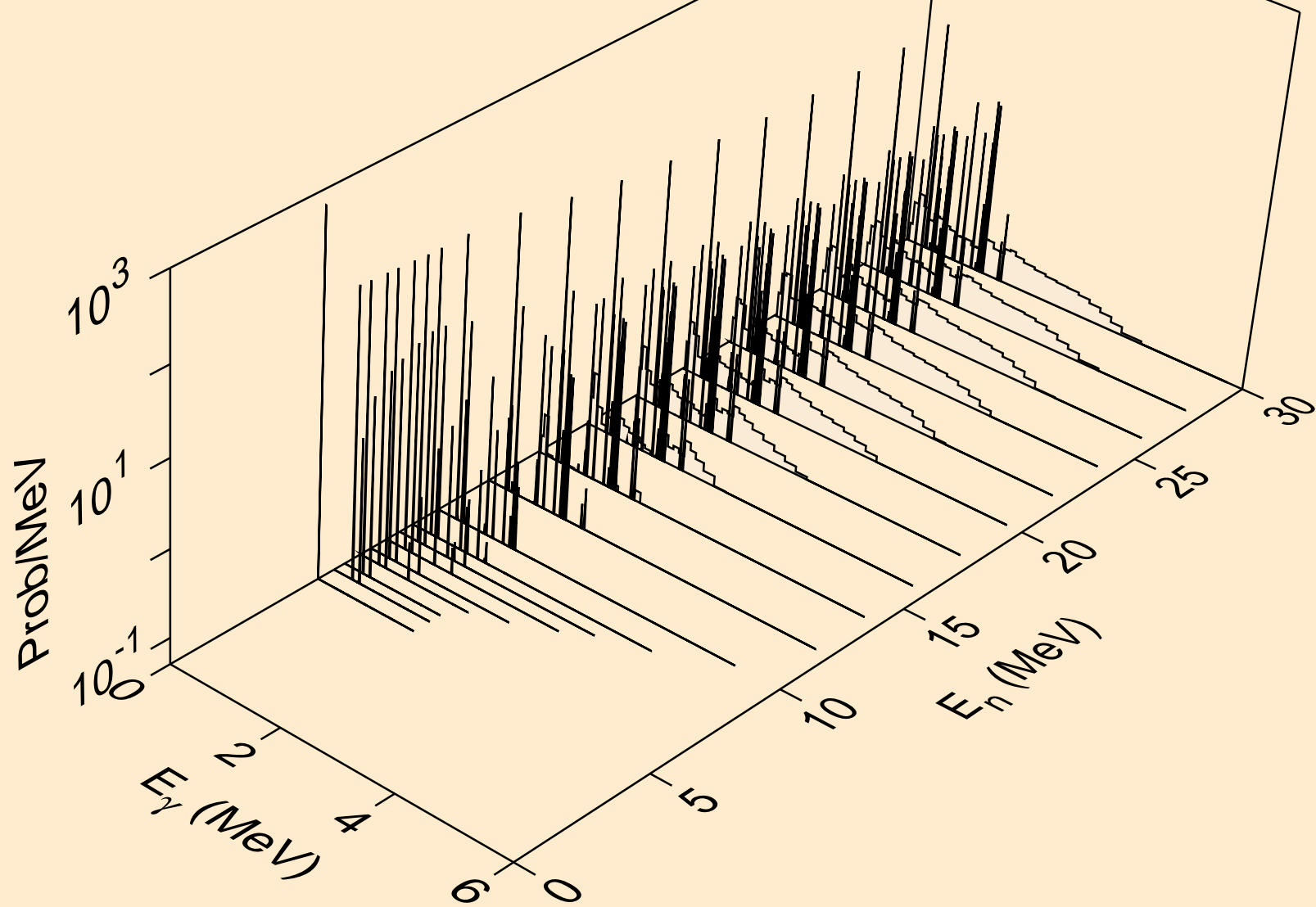
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Photon emission for (n,2n)



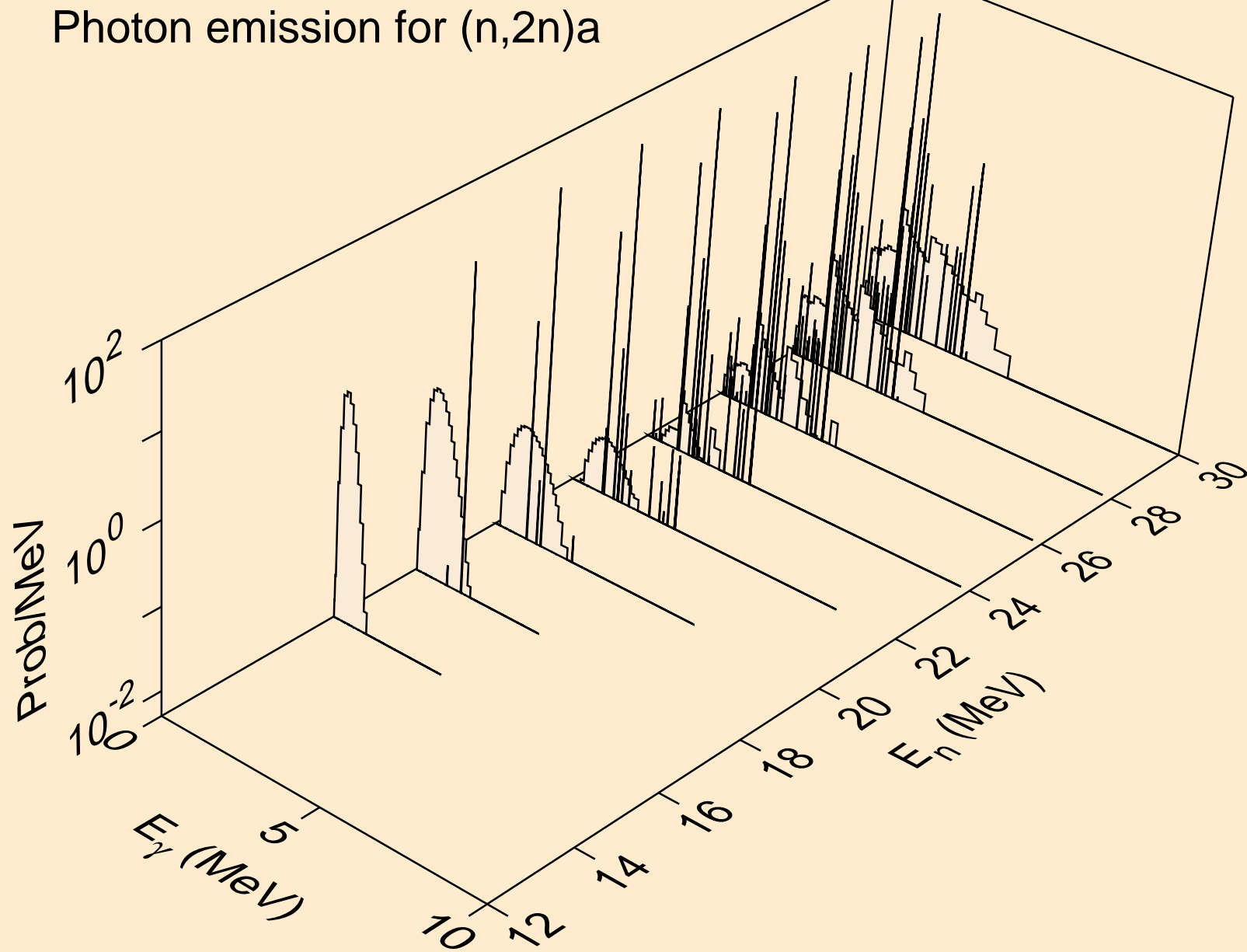
ZN063 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,3n)



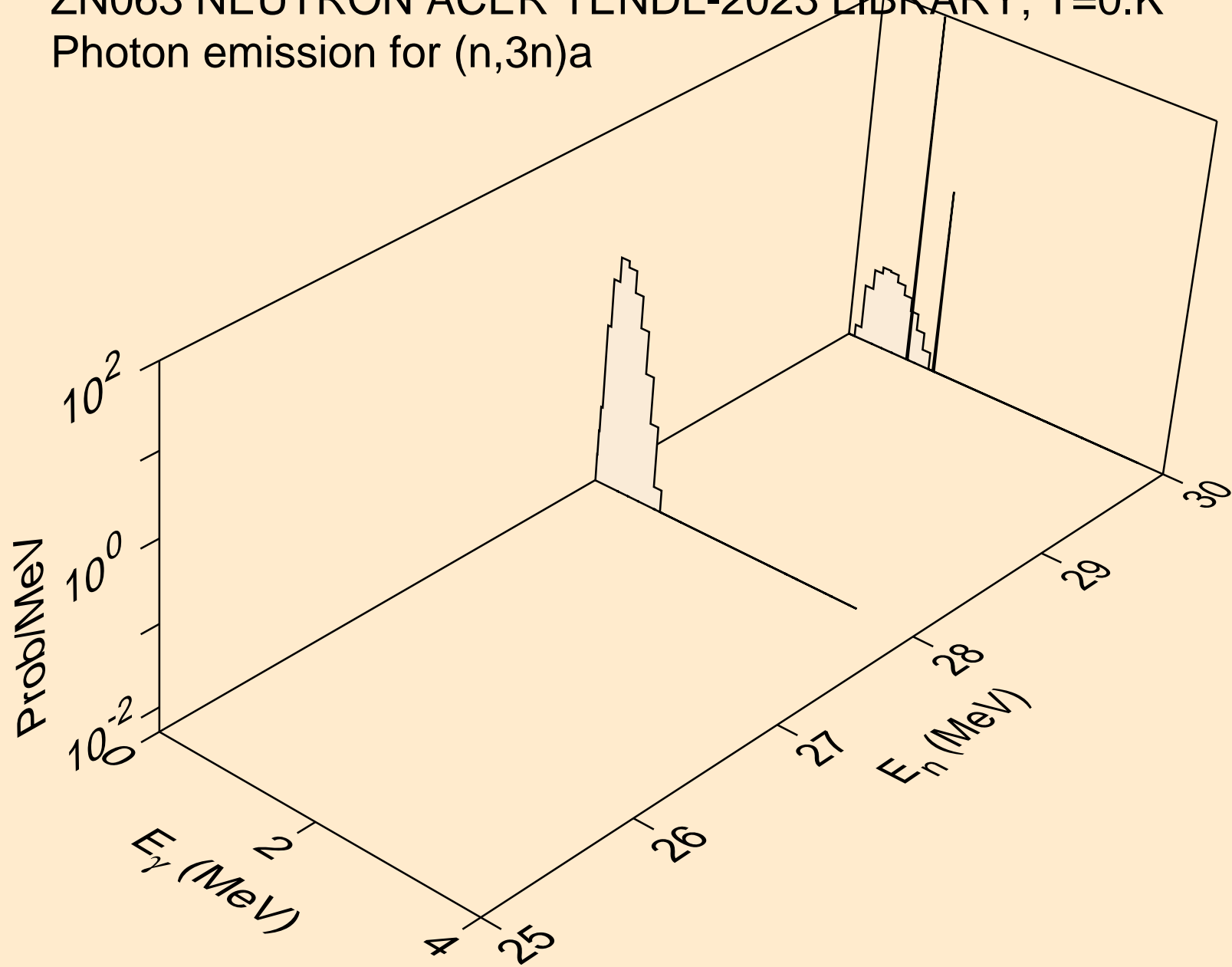
ZN063 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)a



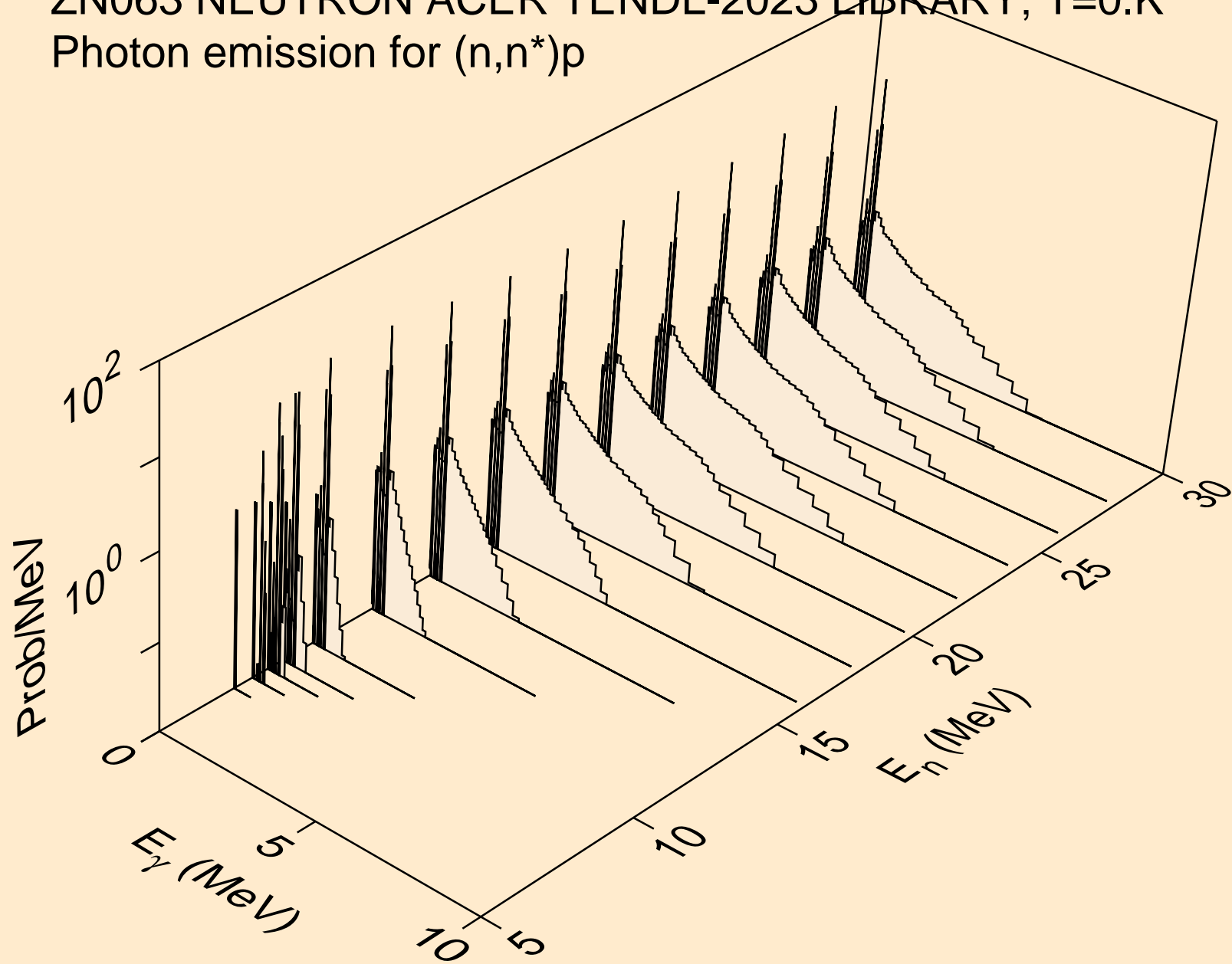
ZN063 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2n)a



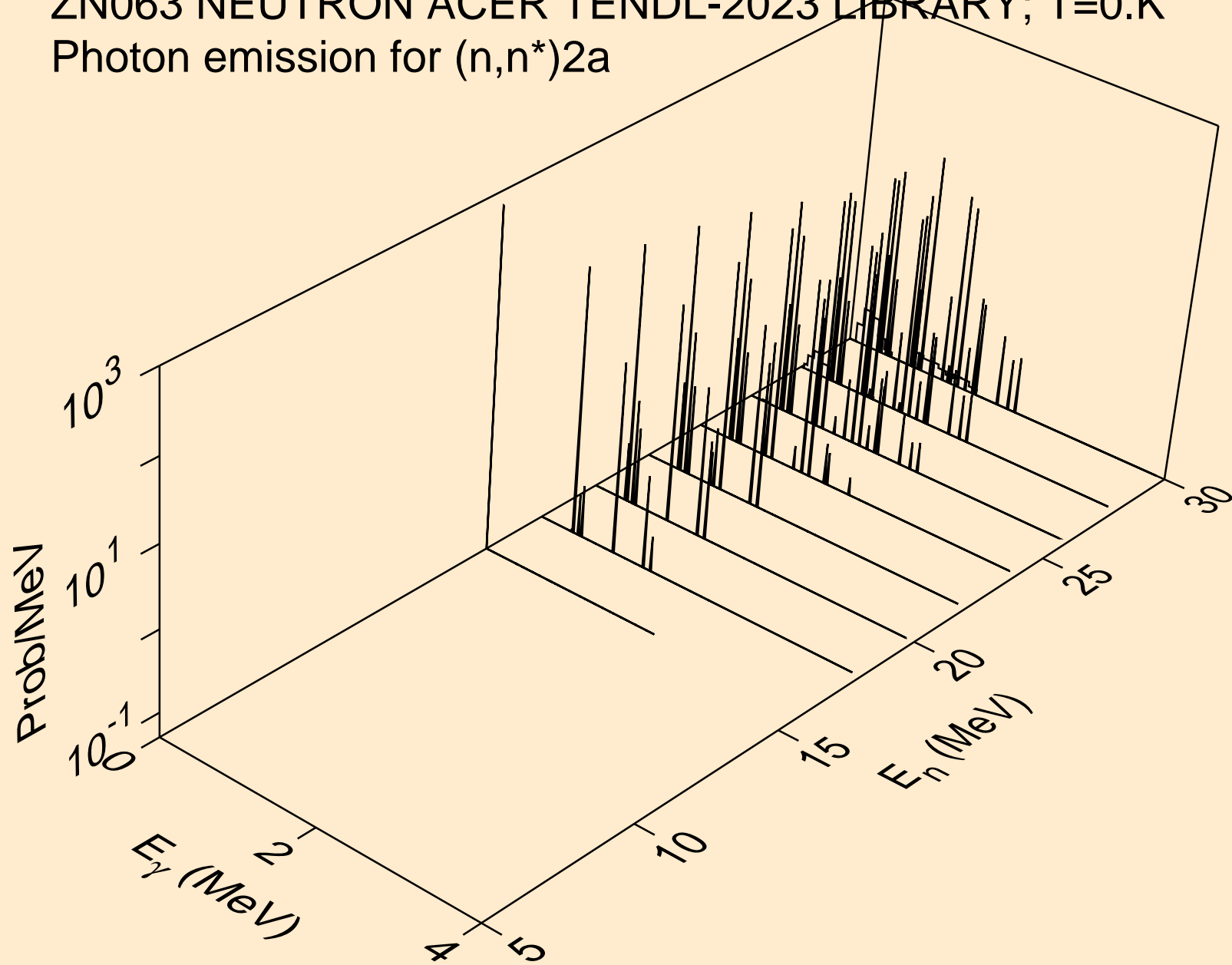
ZN063 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,3n)a



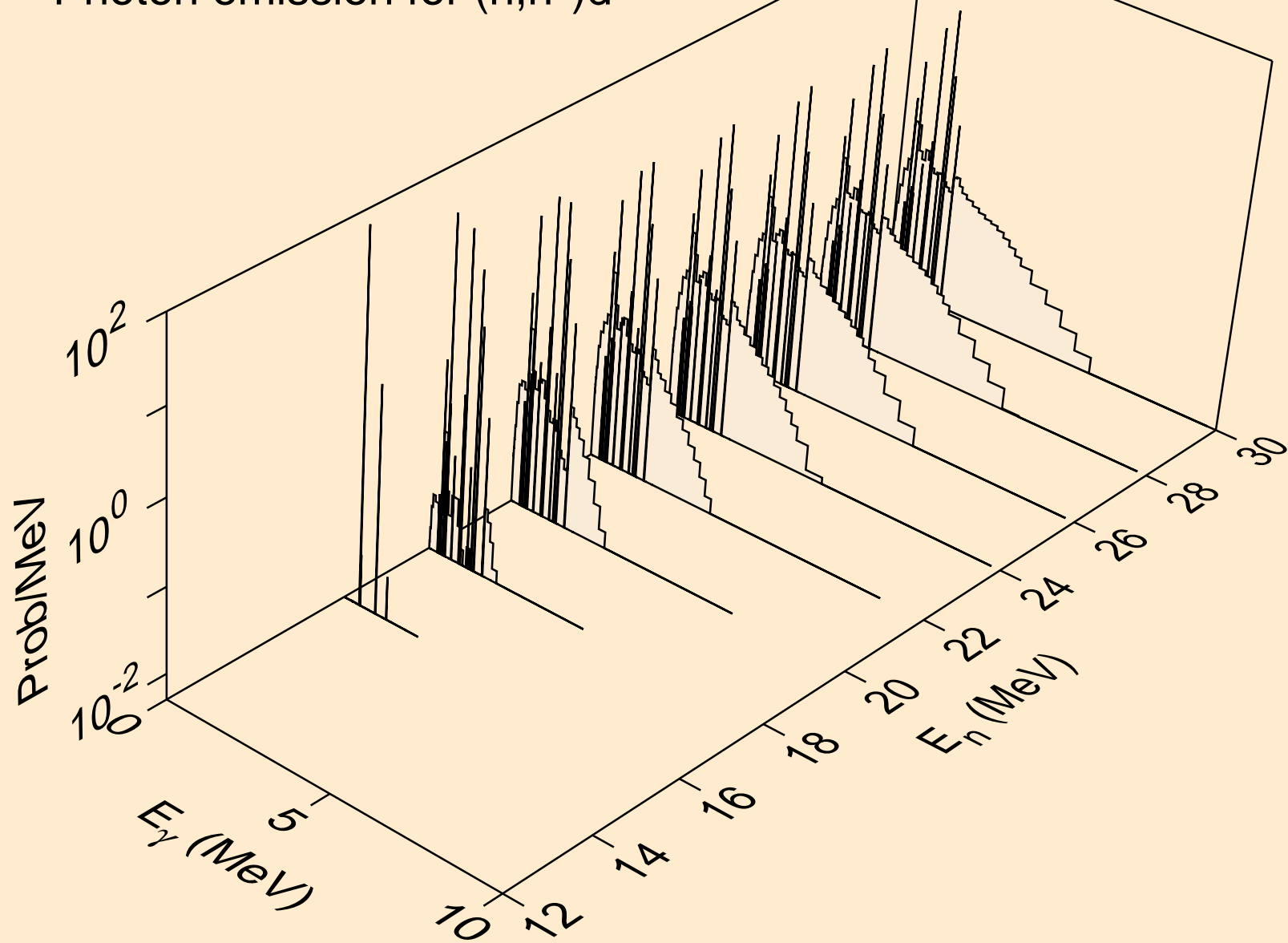
ZN063 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)p



ZN063 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)2a

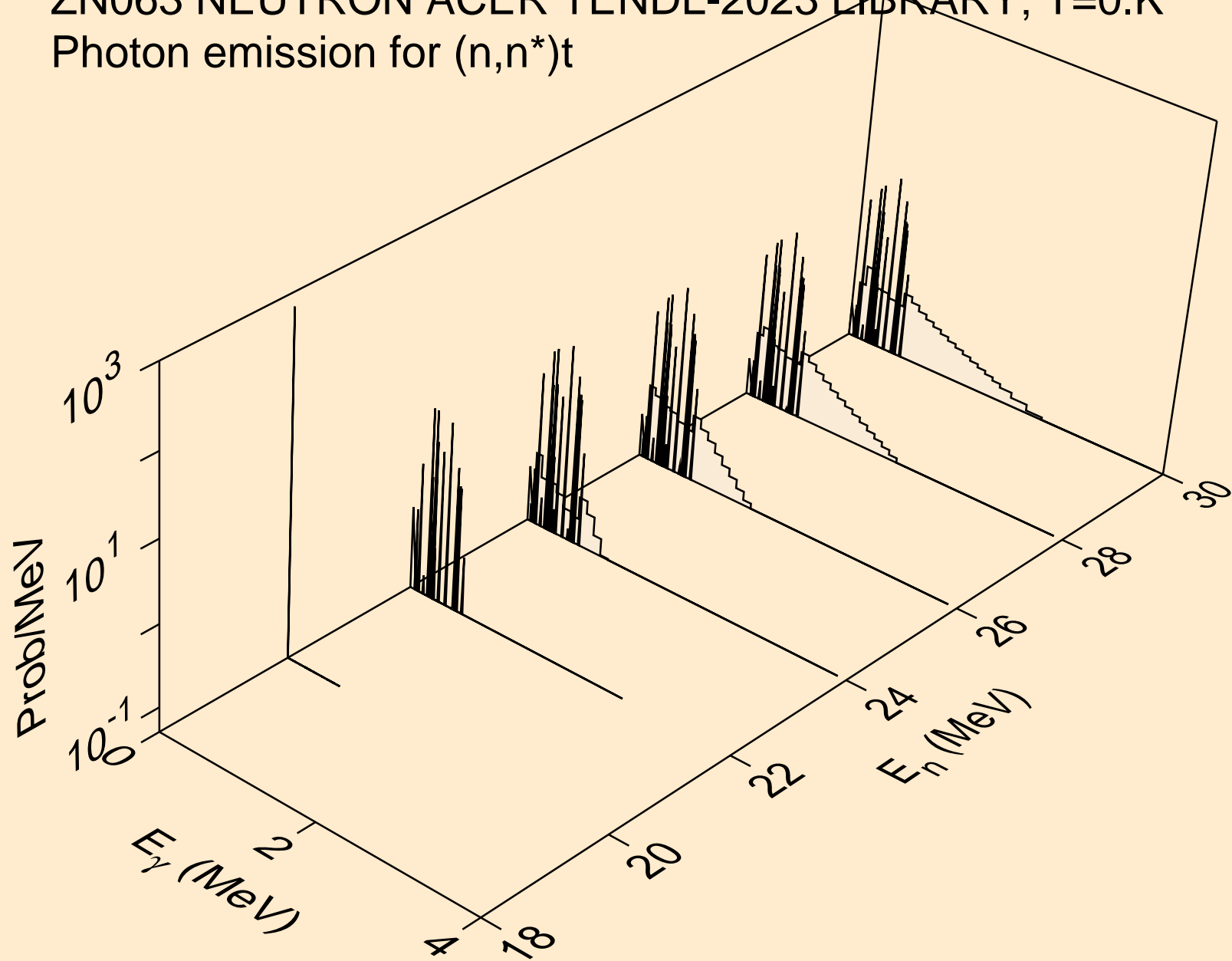


ZN063 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)d

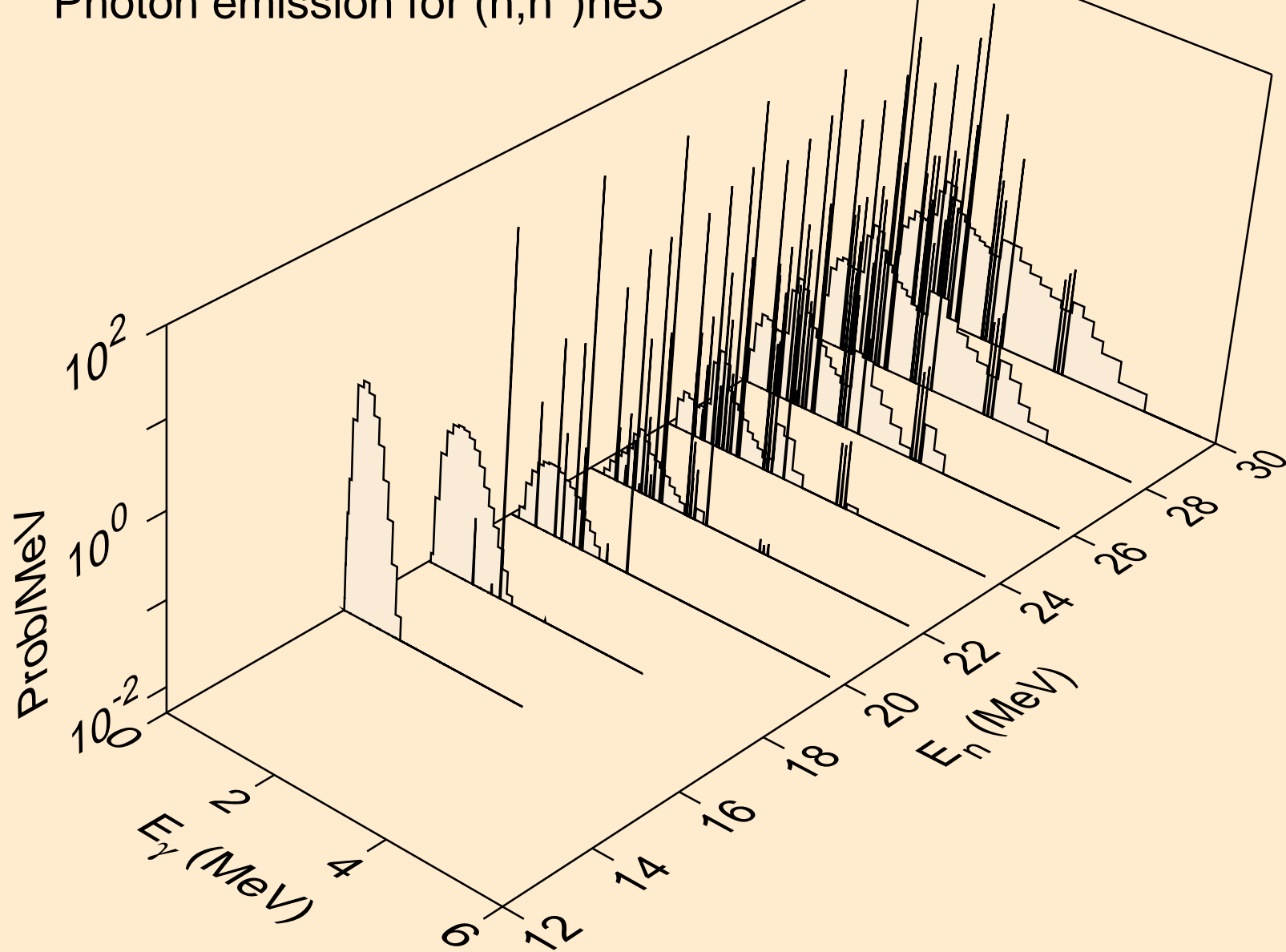




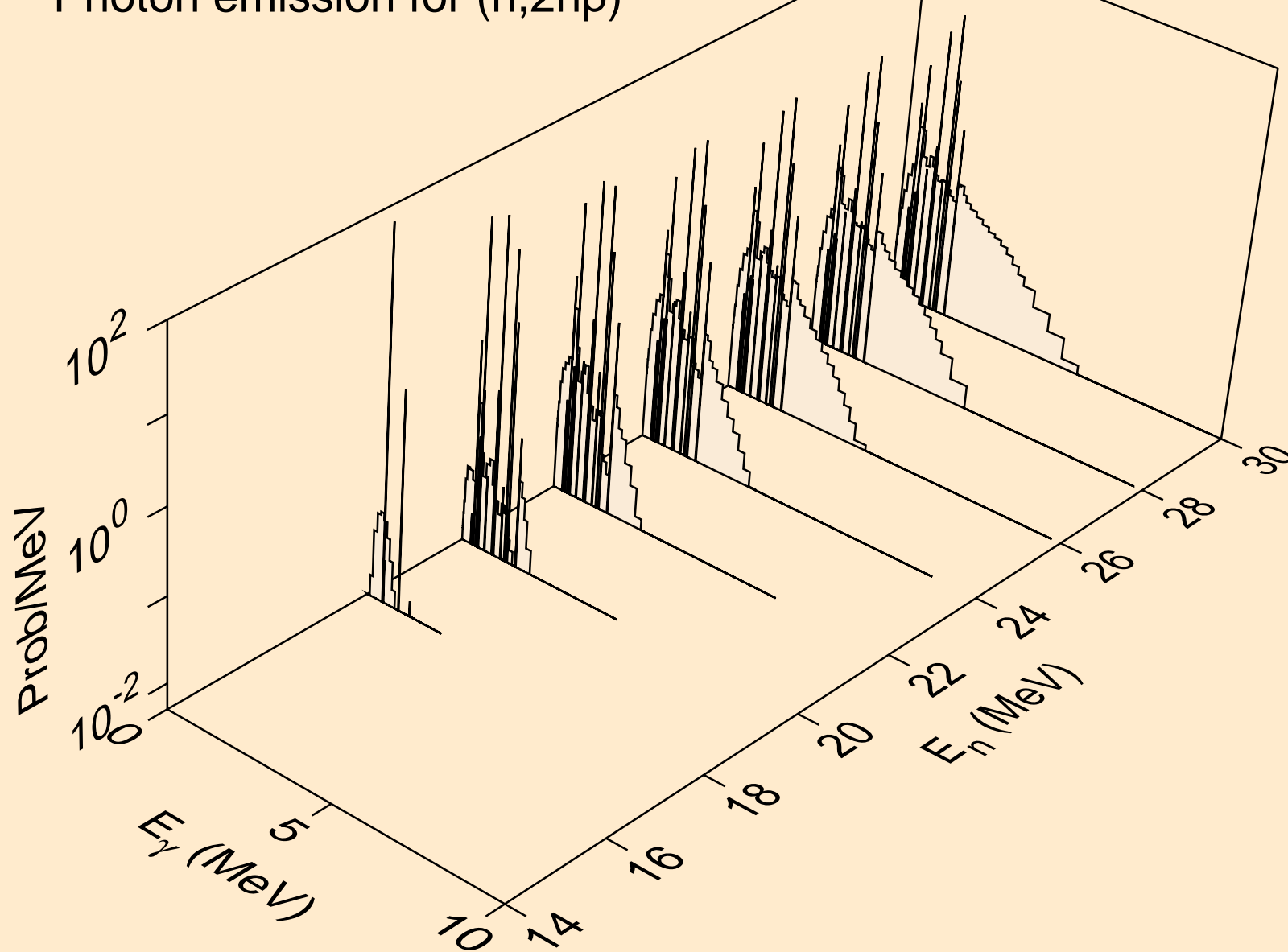
ZN063 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)t



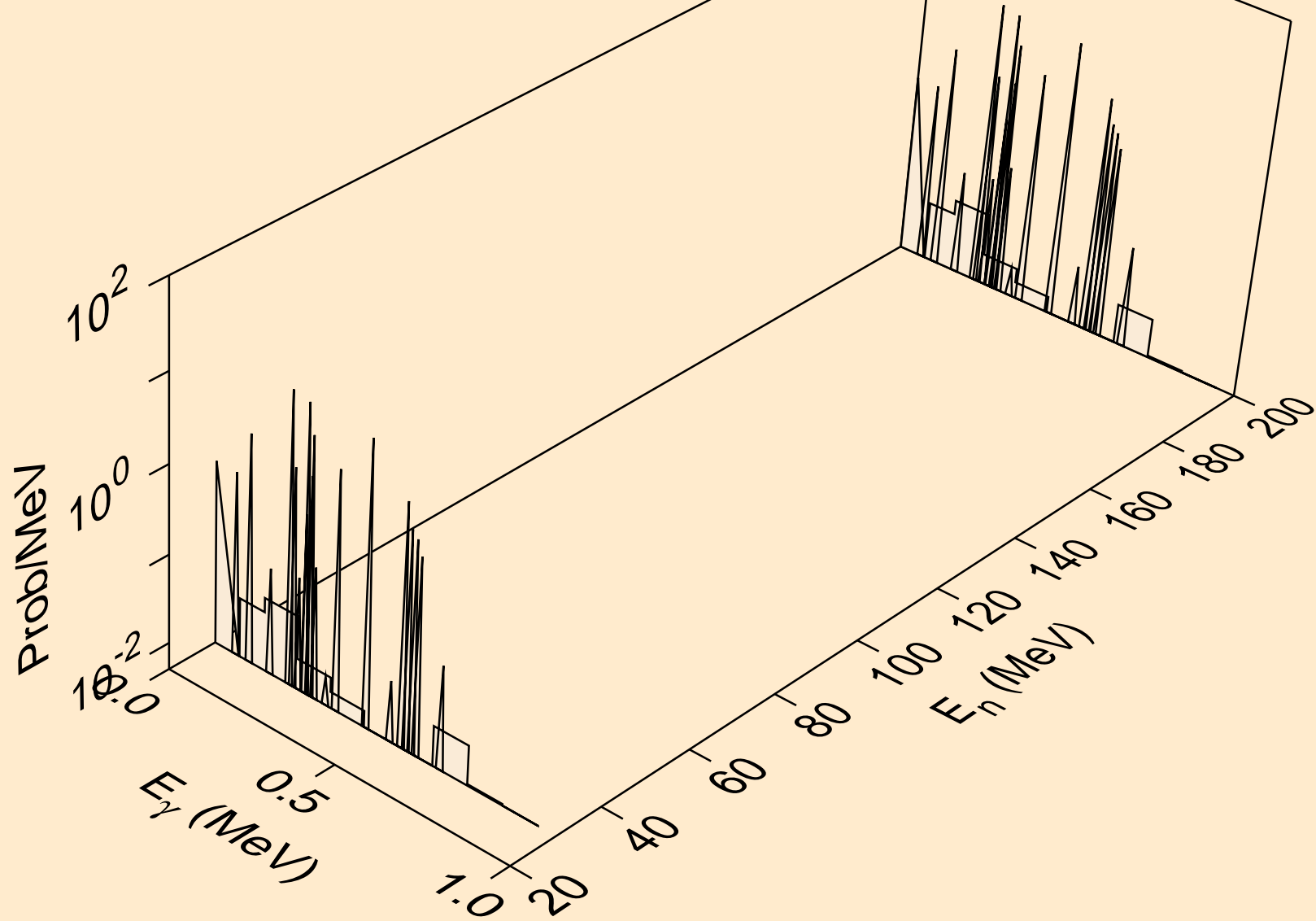
ZN063 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)he3



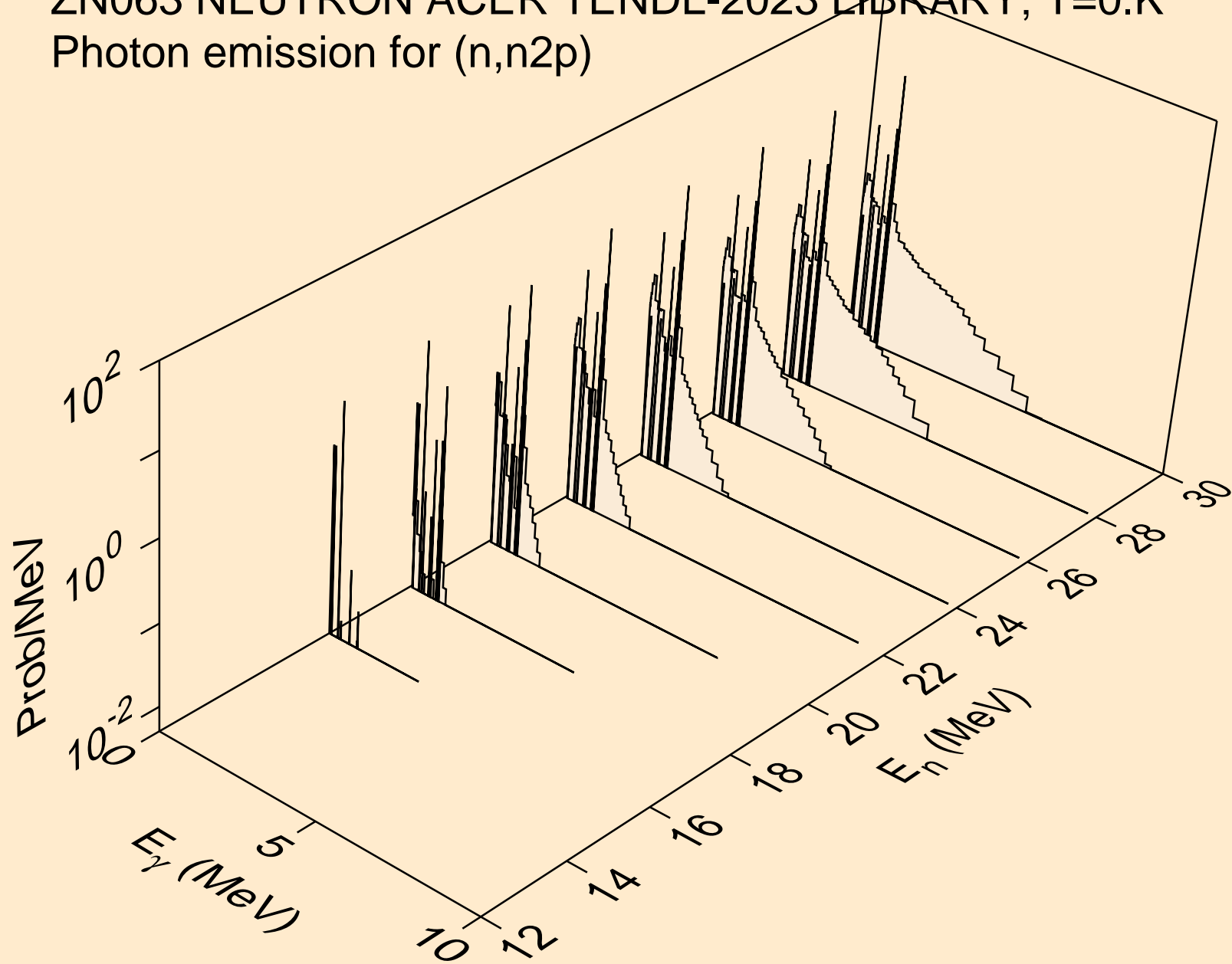
ZN063 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2np)



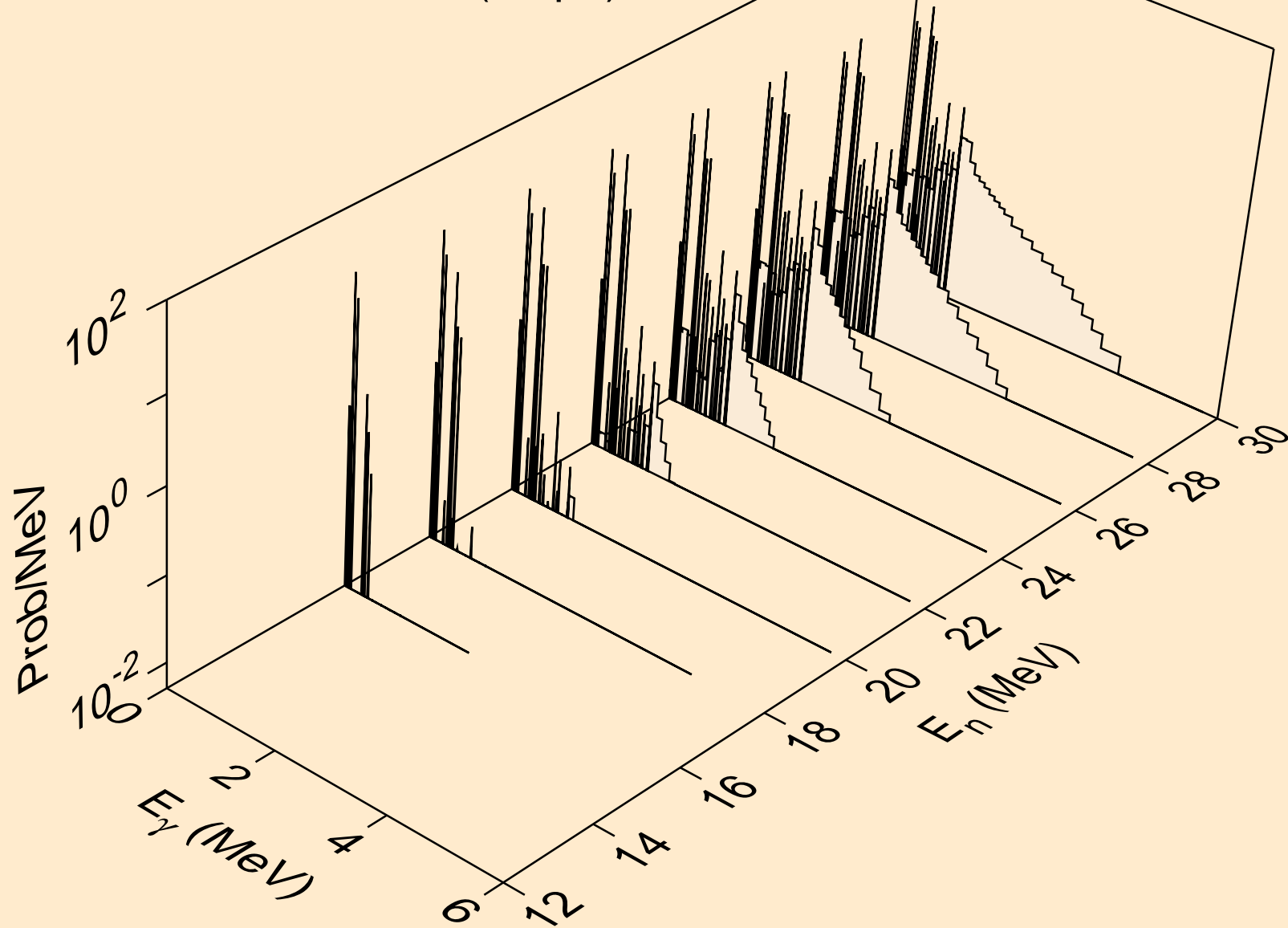
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Photon emission for (n,3np)



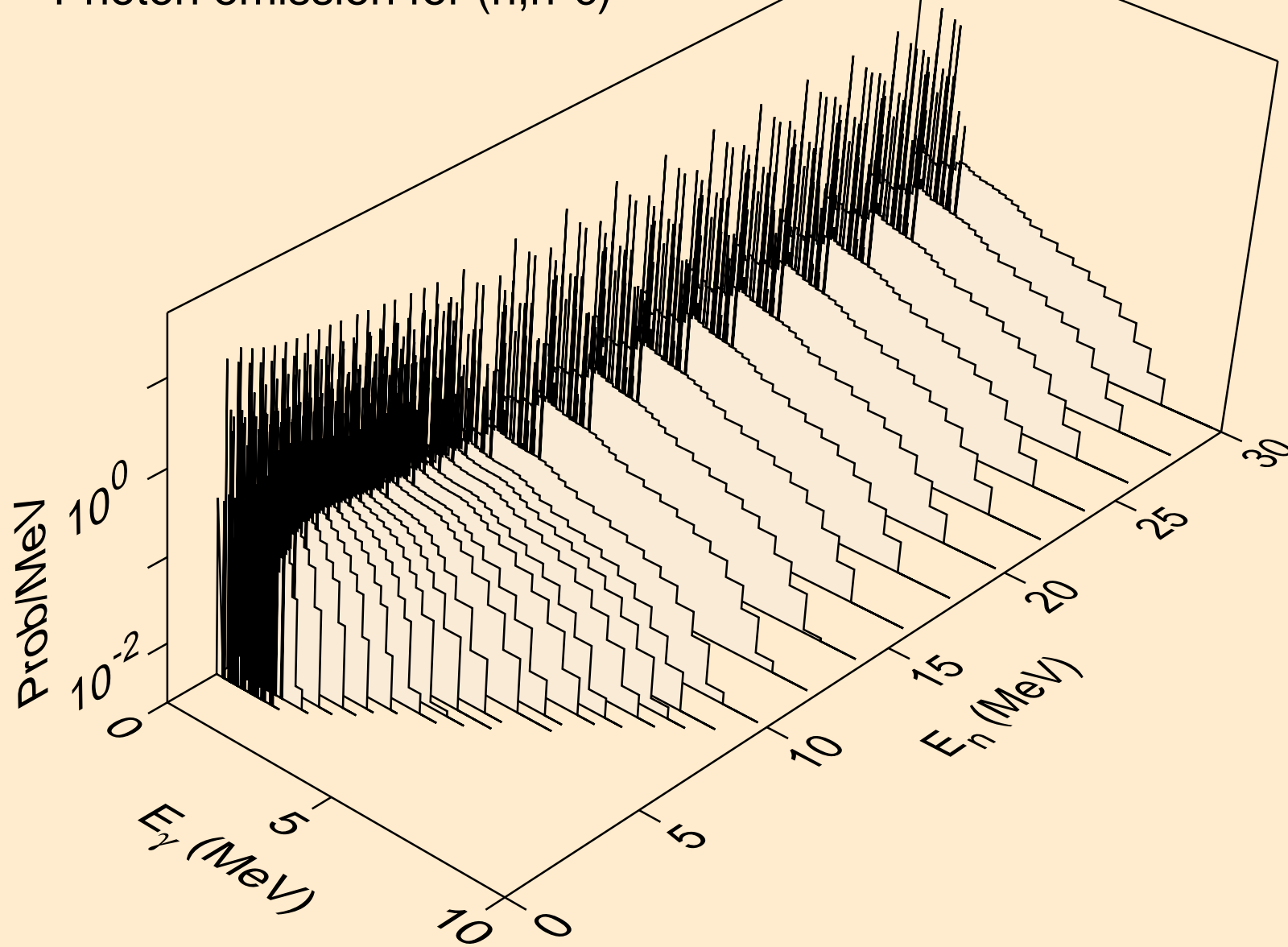
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Photon emission for (n,n2p)



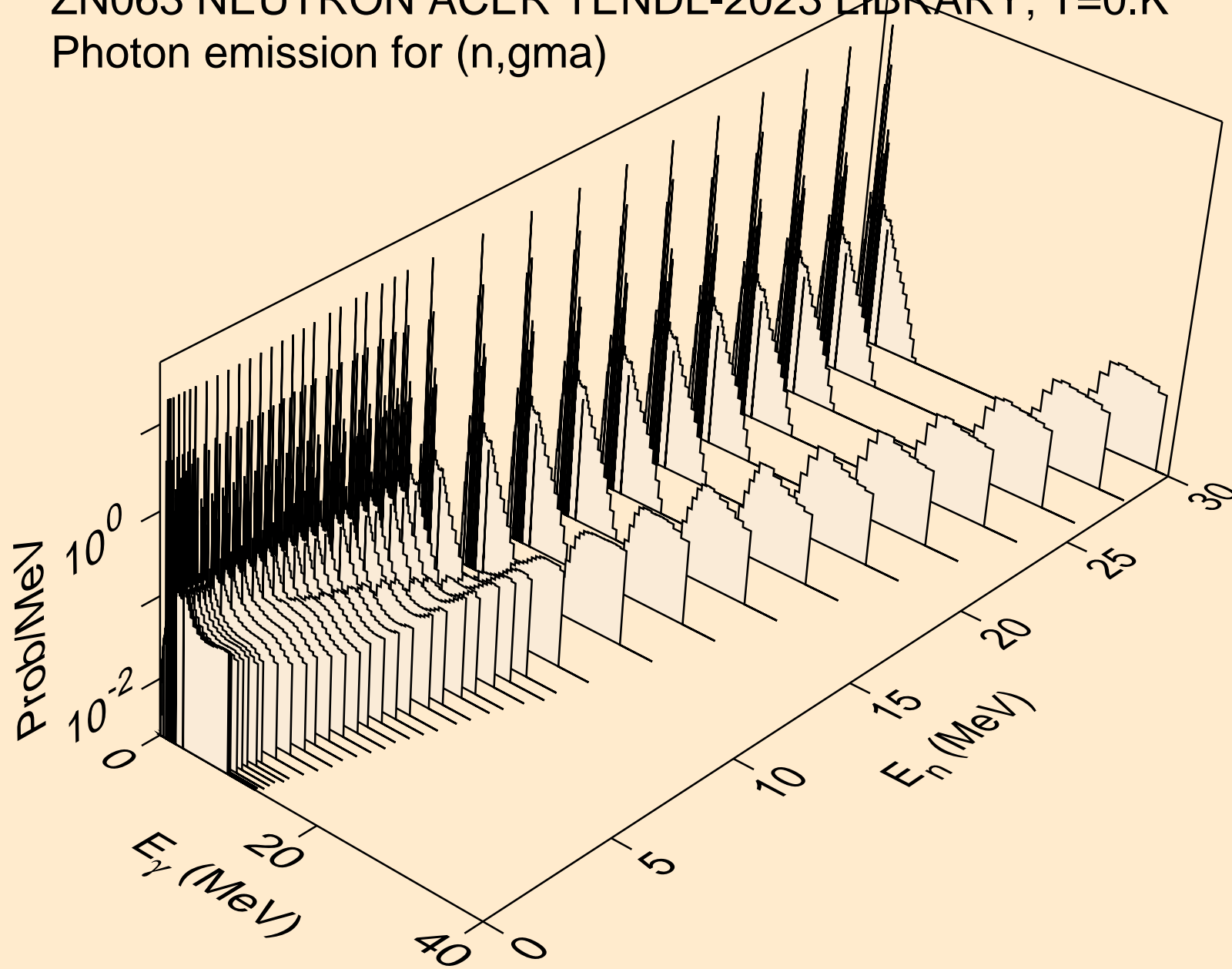
ZN063 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,npa)



ZN063 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*c)

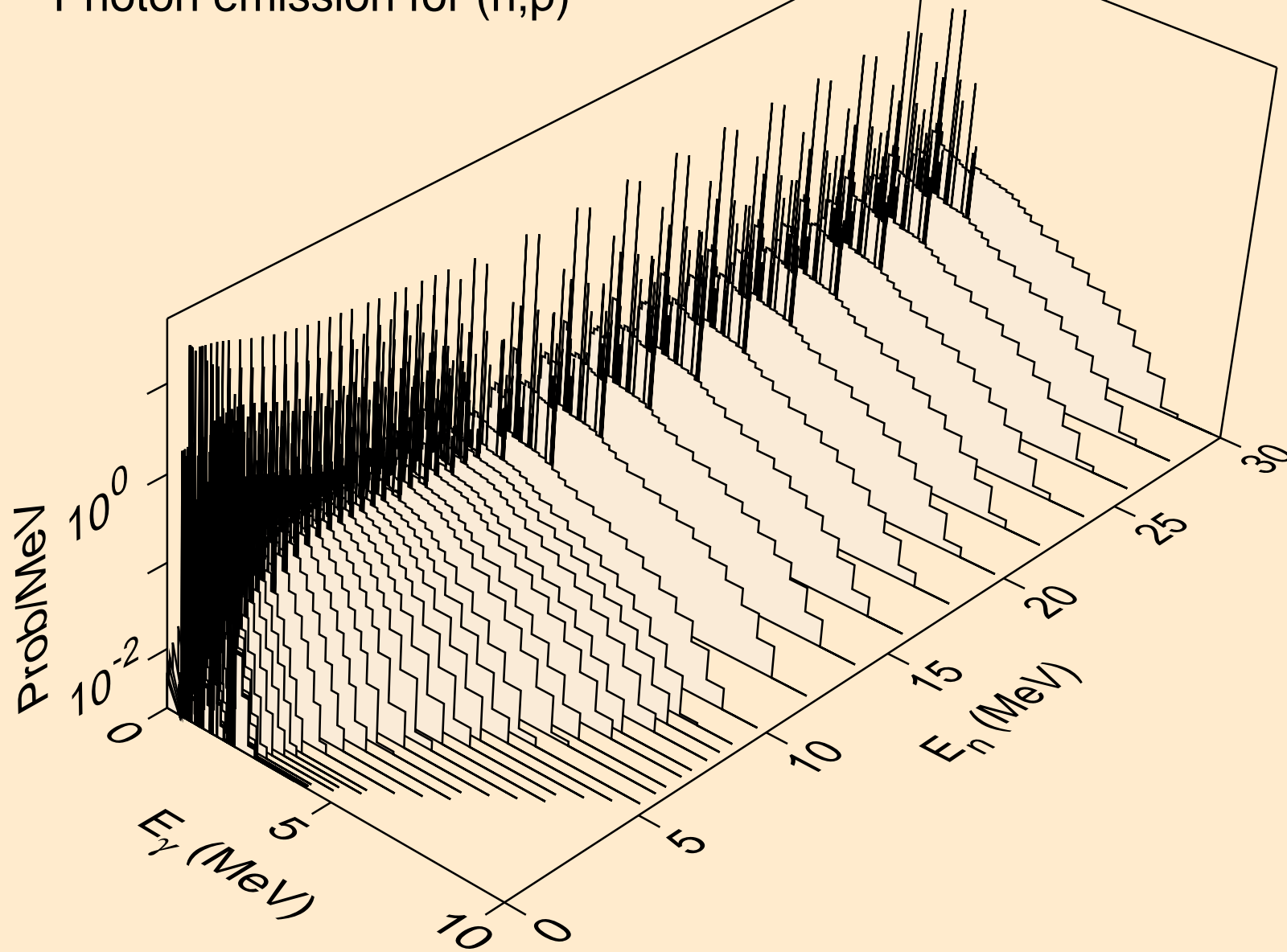


ZN063 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,gma)

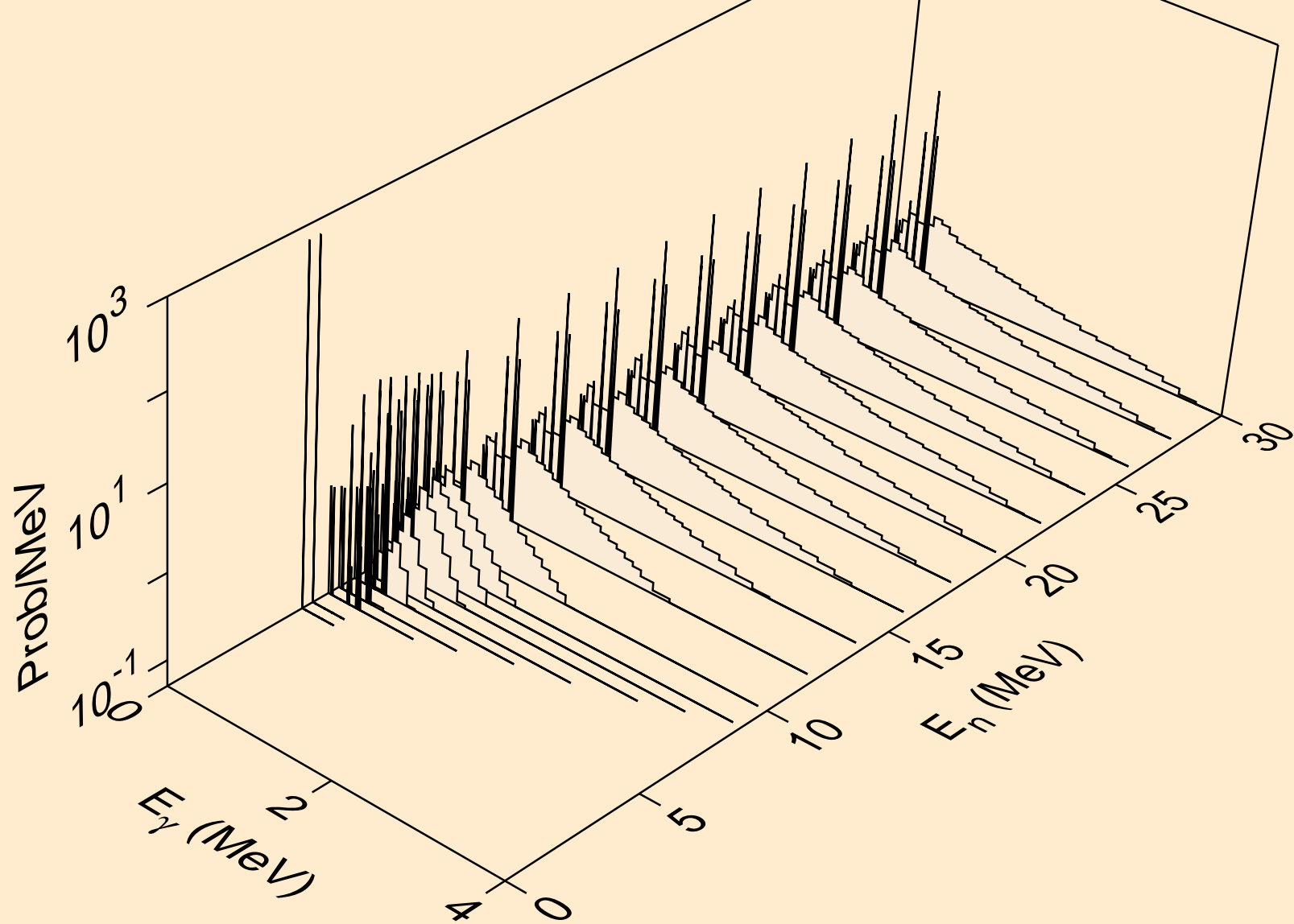




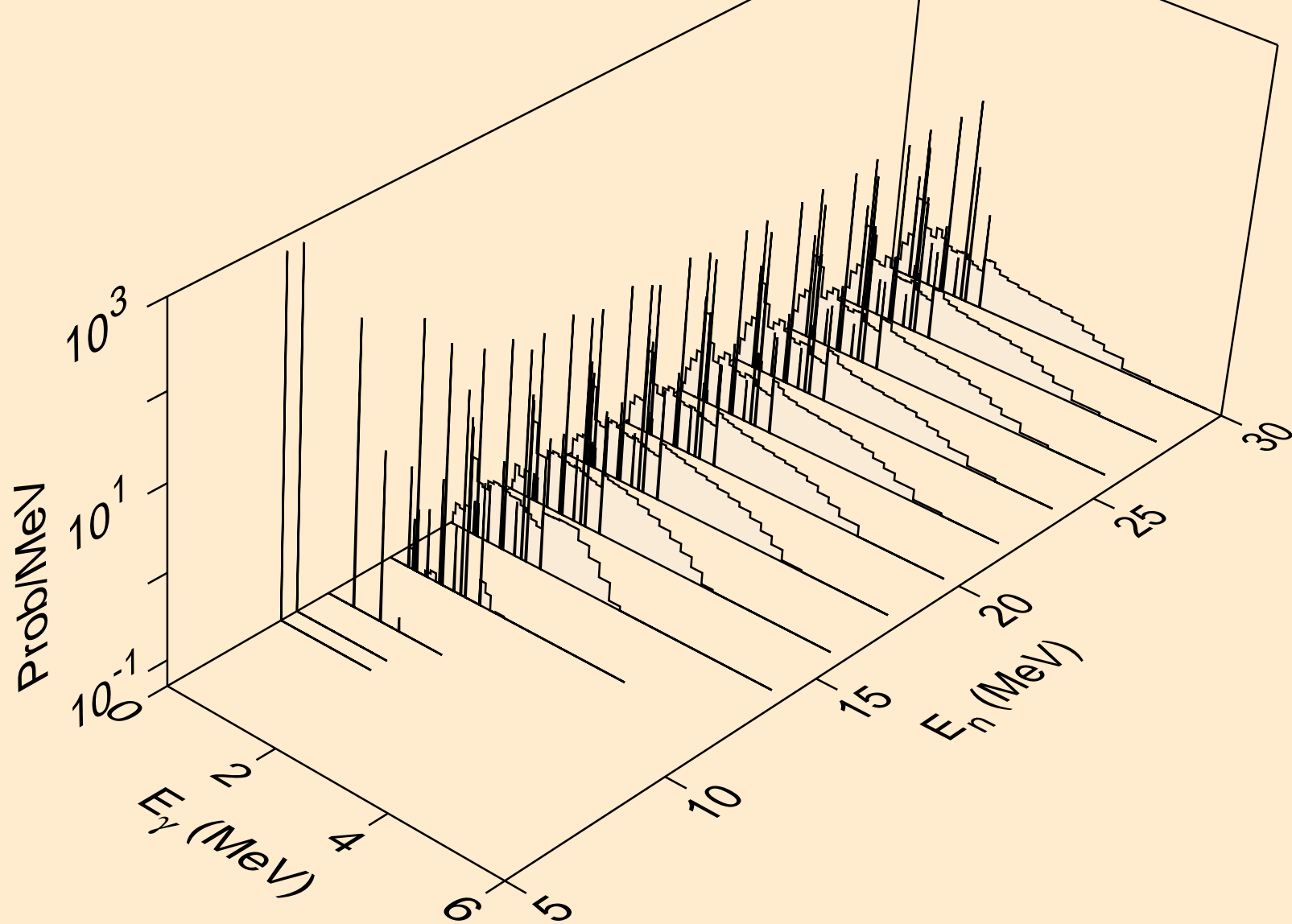
ZN063 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,p)



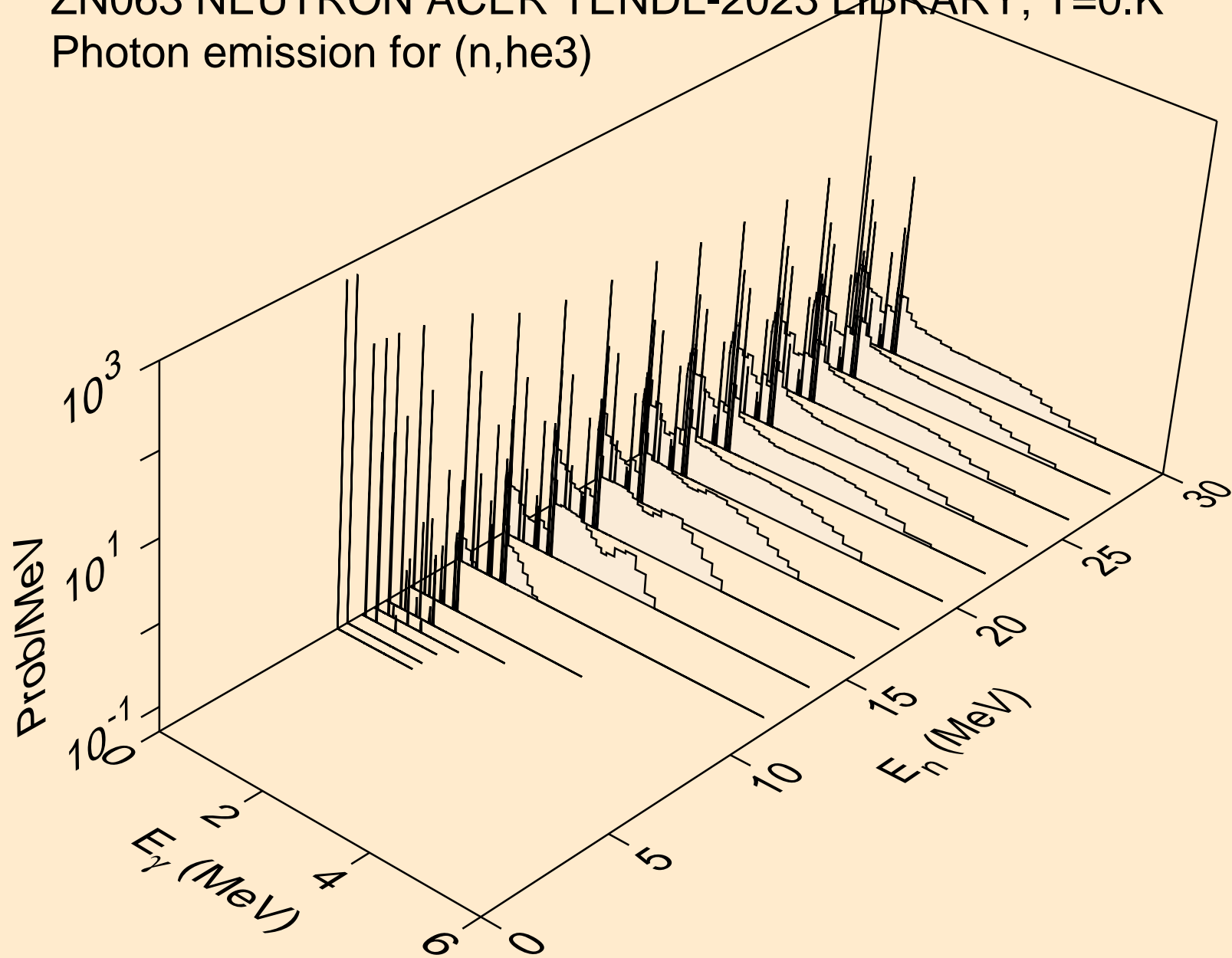
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Photon emission for (n,d)



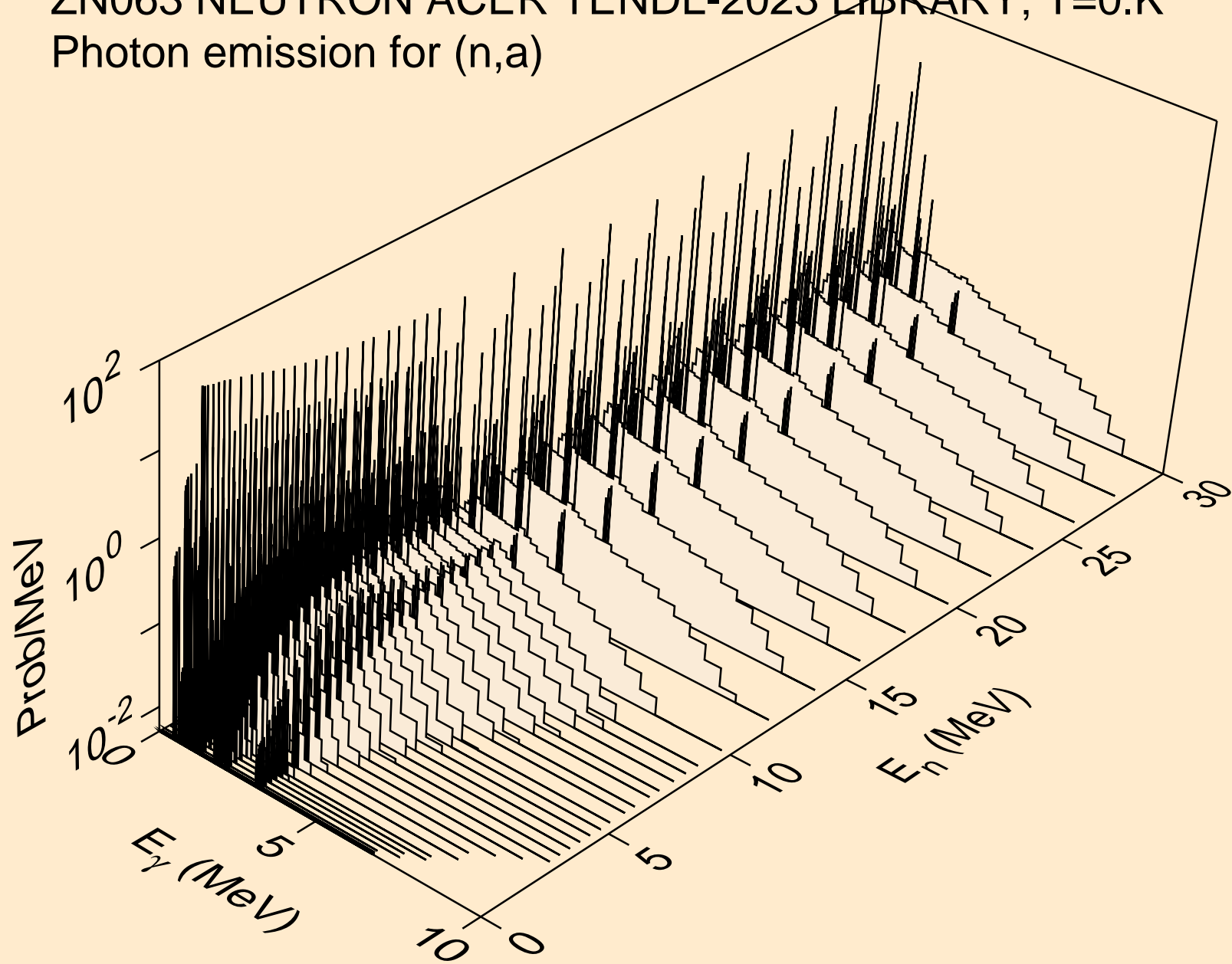
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Photon emission for (n,t)



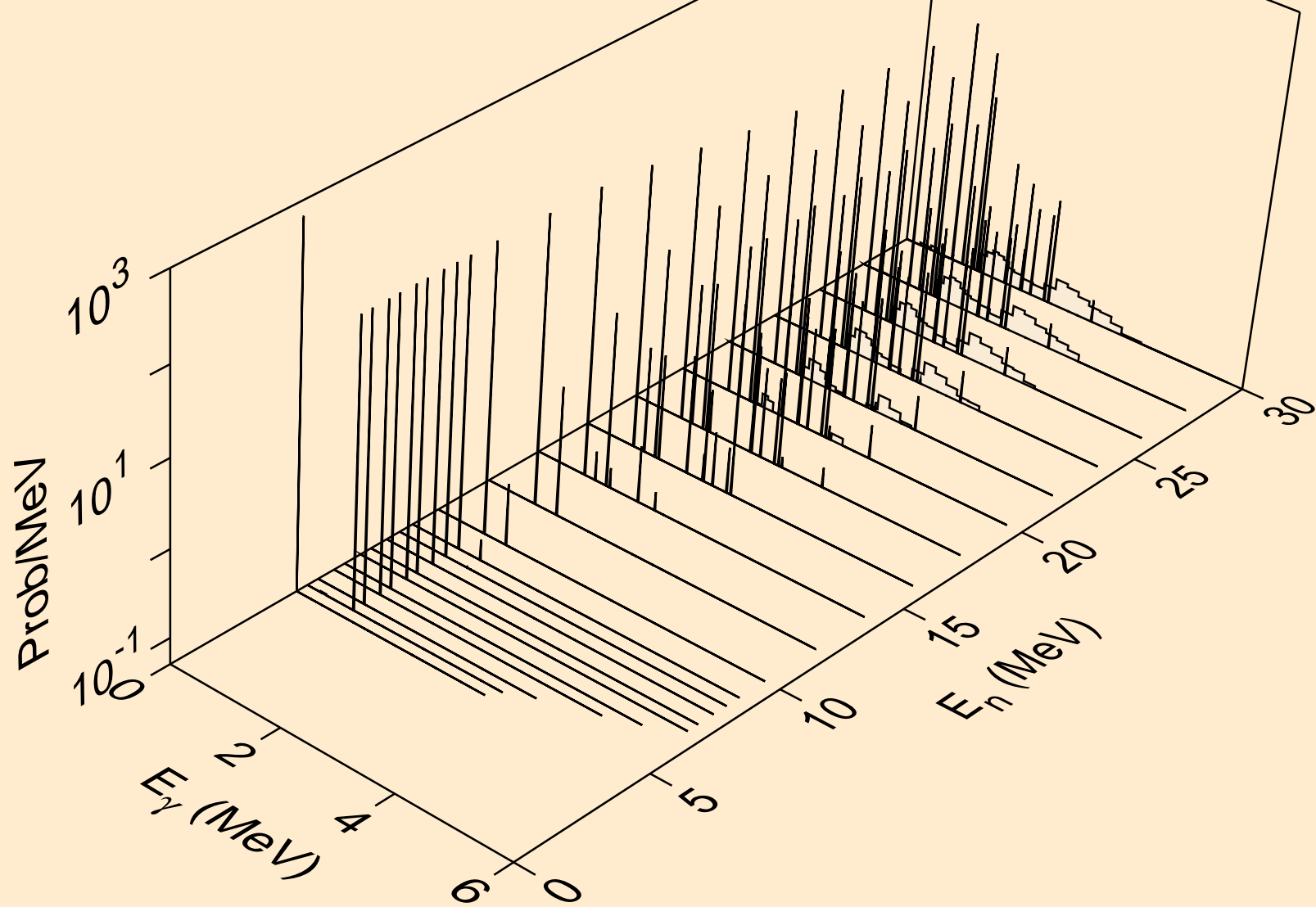
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Photon emission for (n,he3)



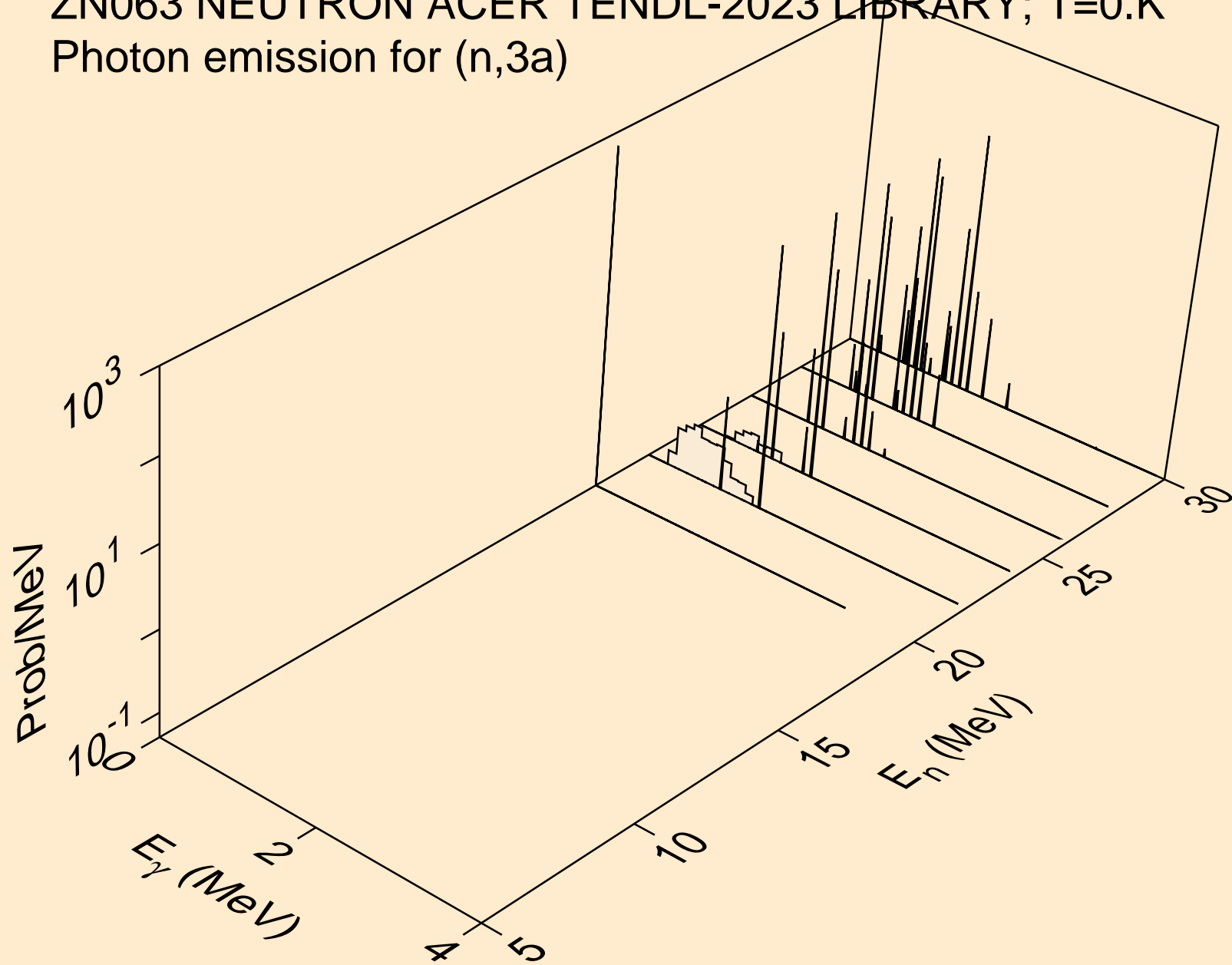
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Photon emission for (n,a)



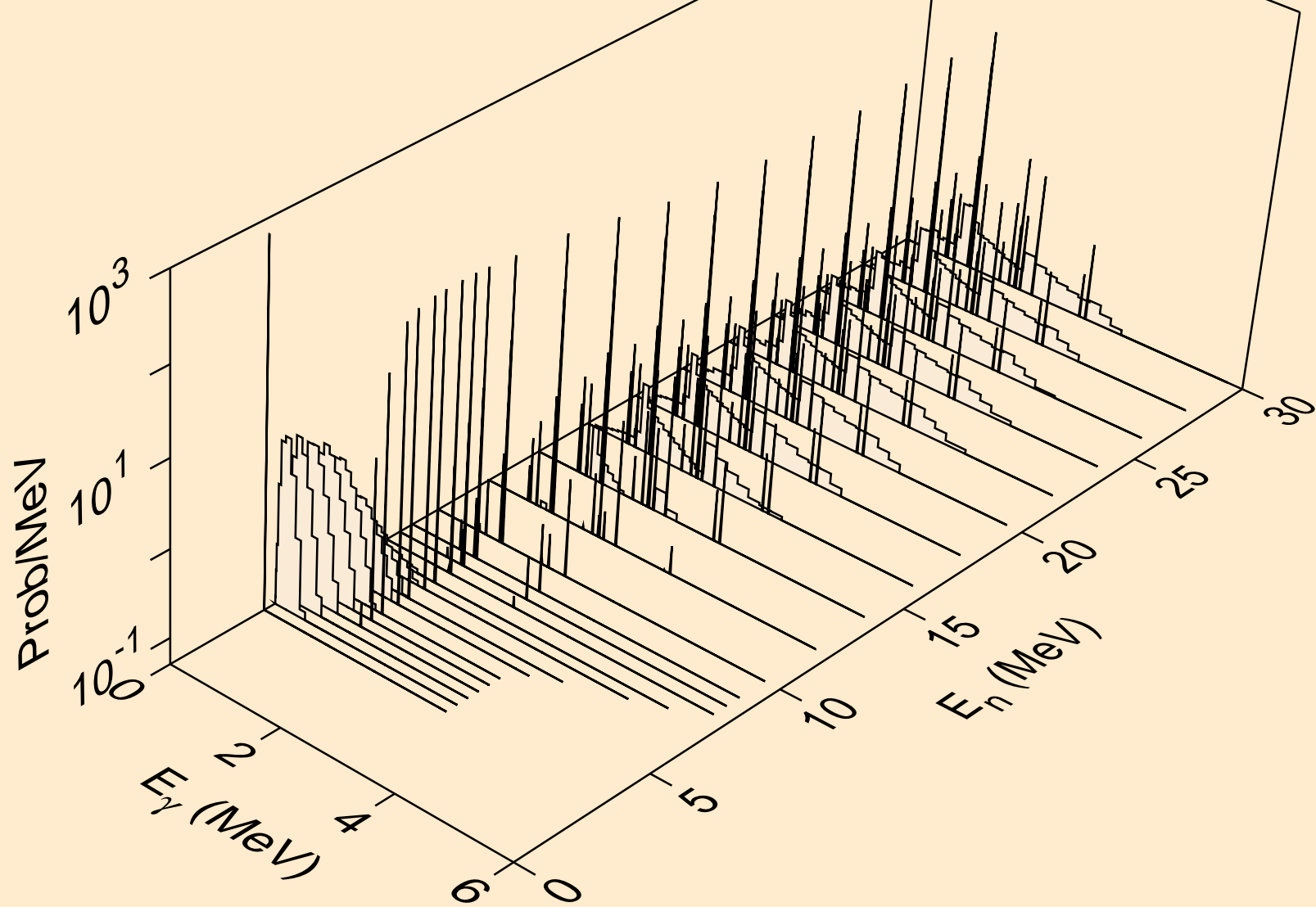
ZN063 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2a)



ZN063 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,3a)

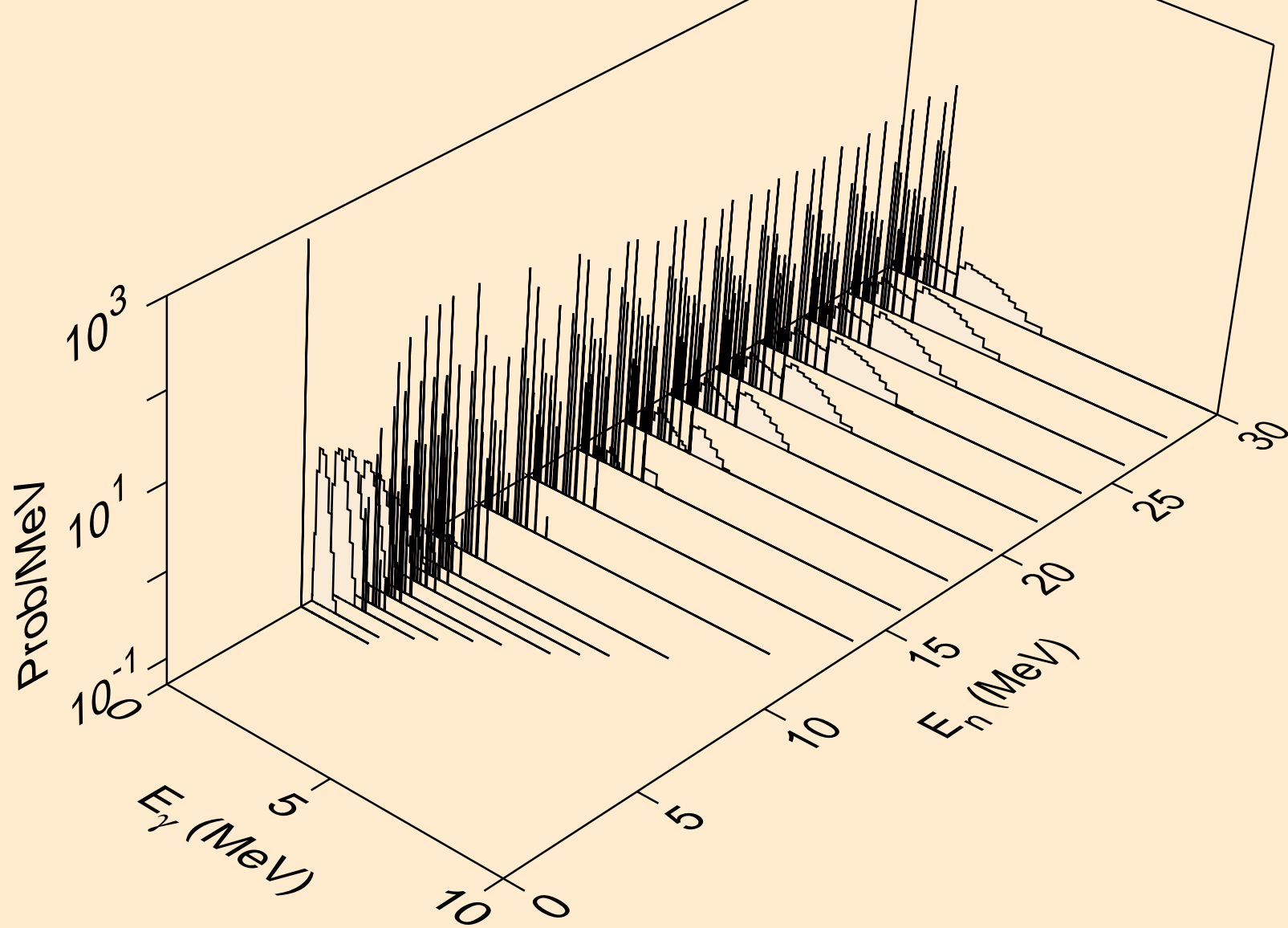


ZN063 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2p)

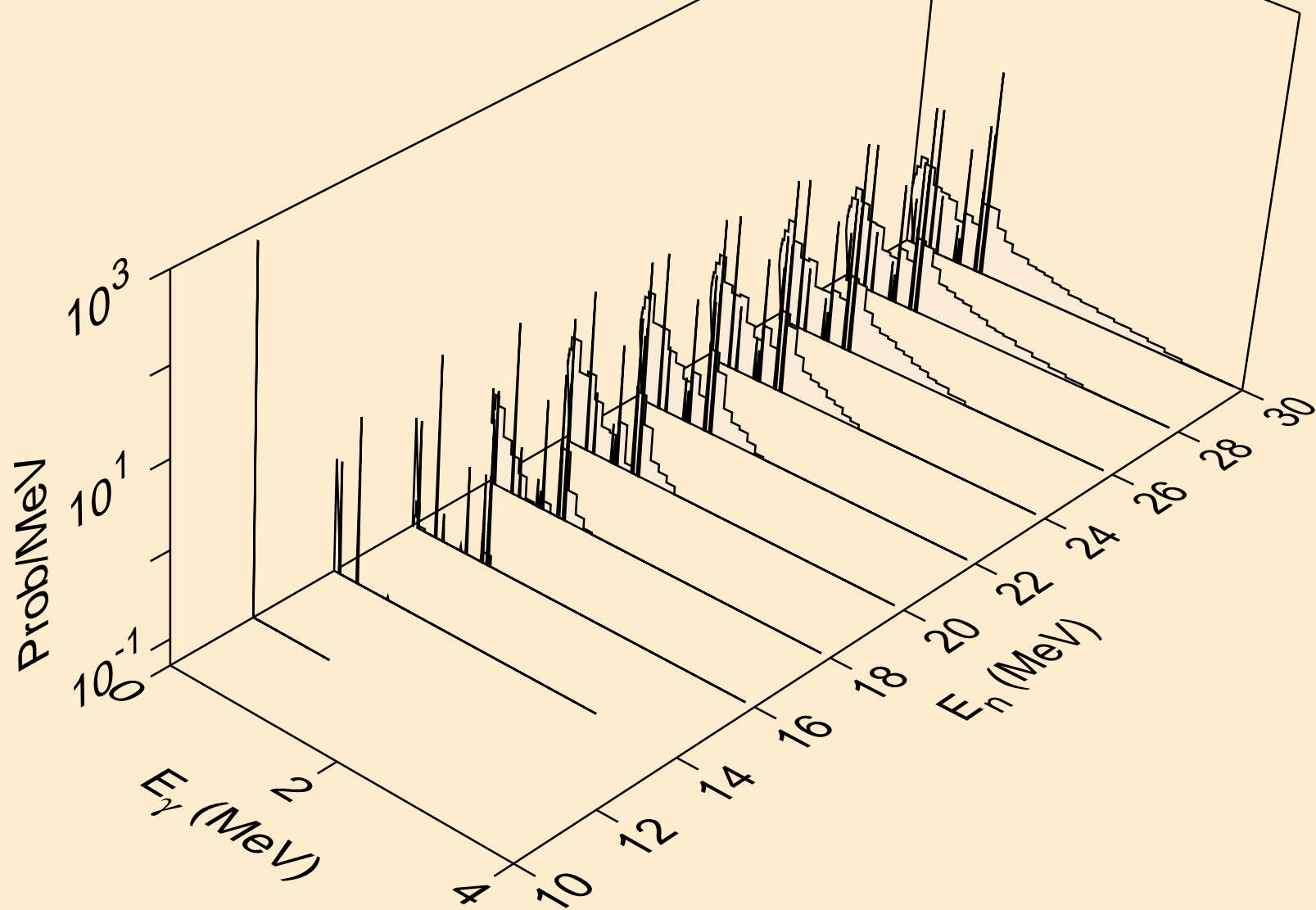




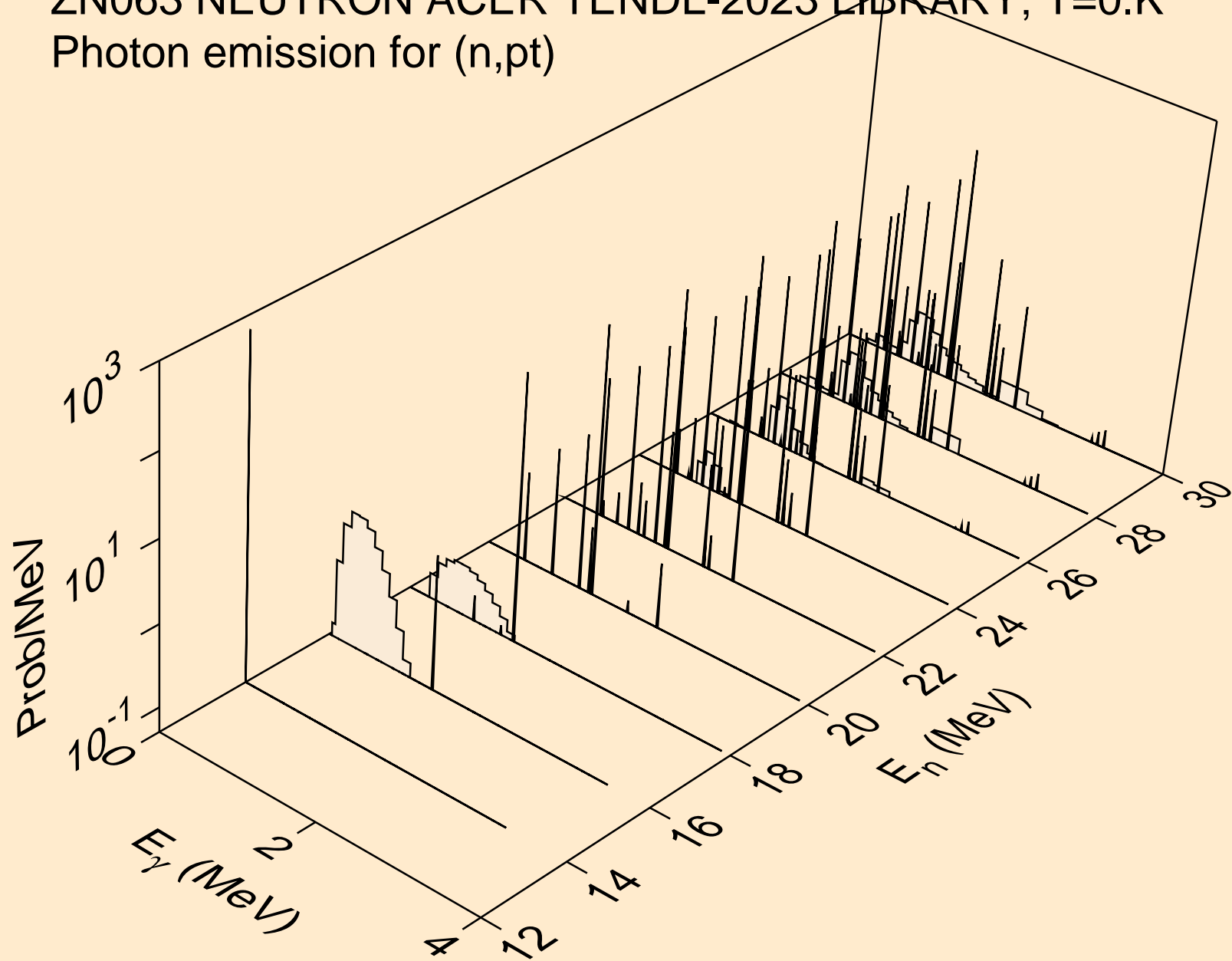
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Photon emission for (n,p $\alpha$ )



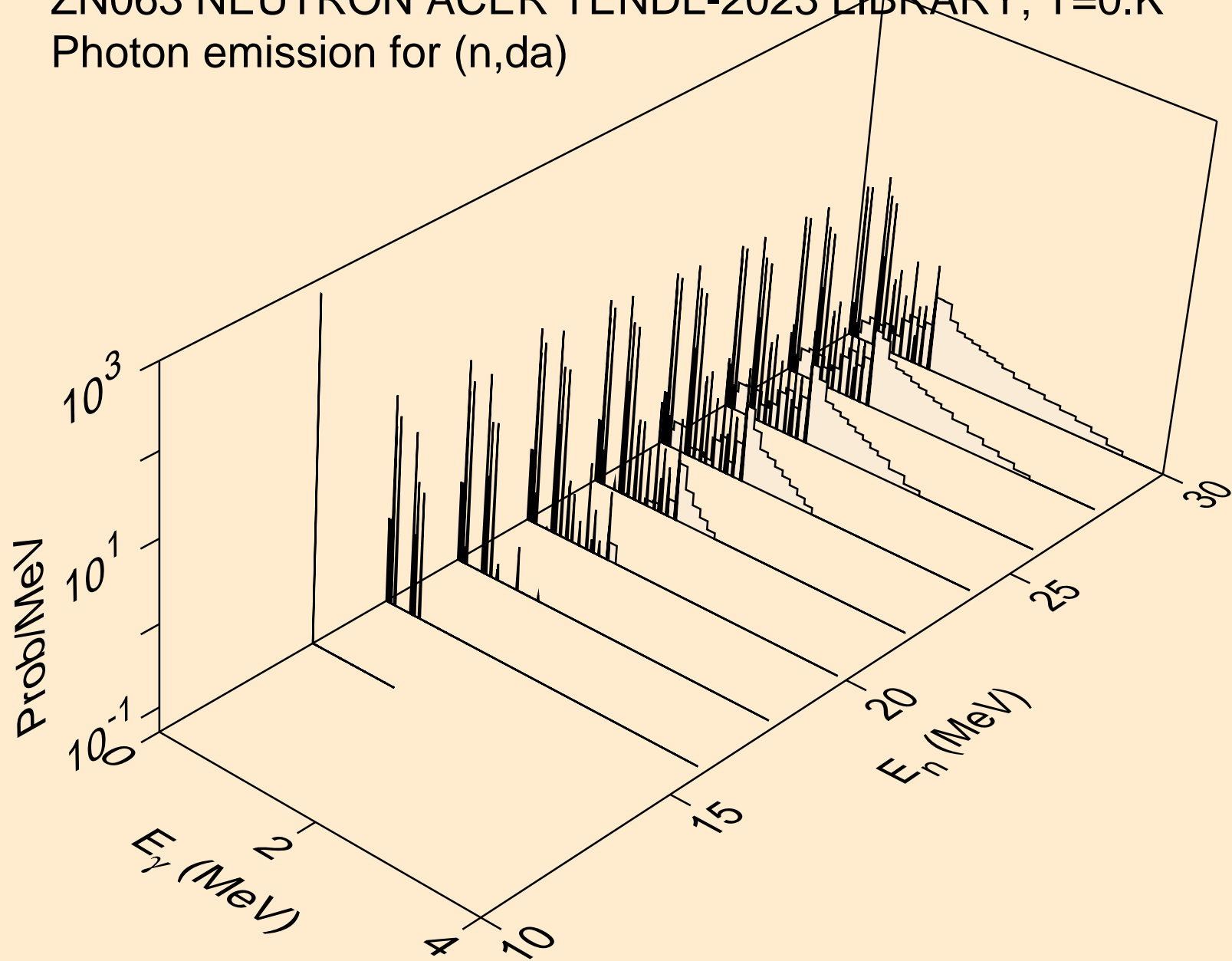
ZN063 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,pd)



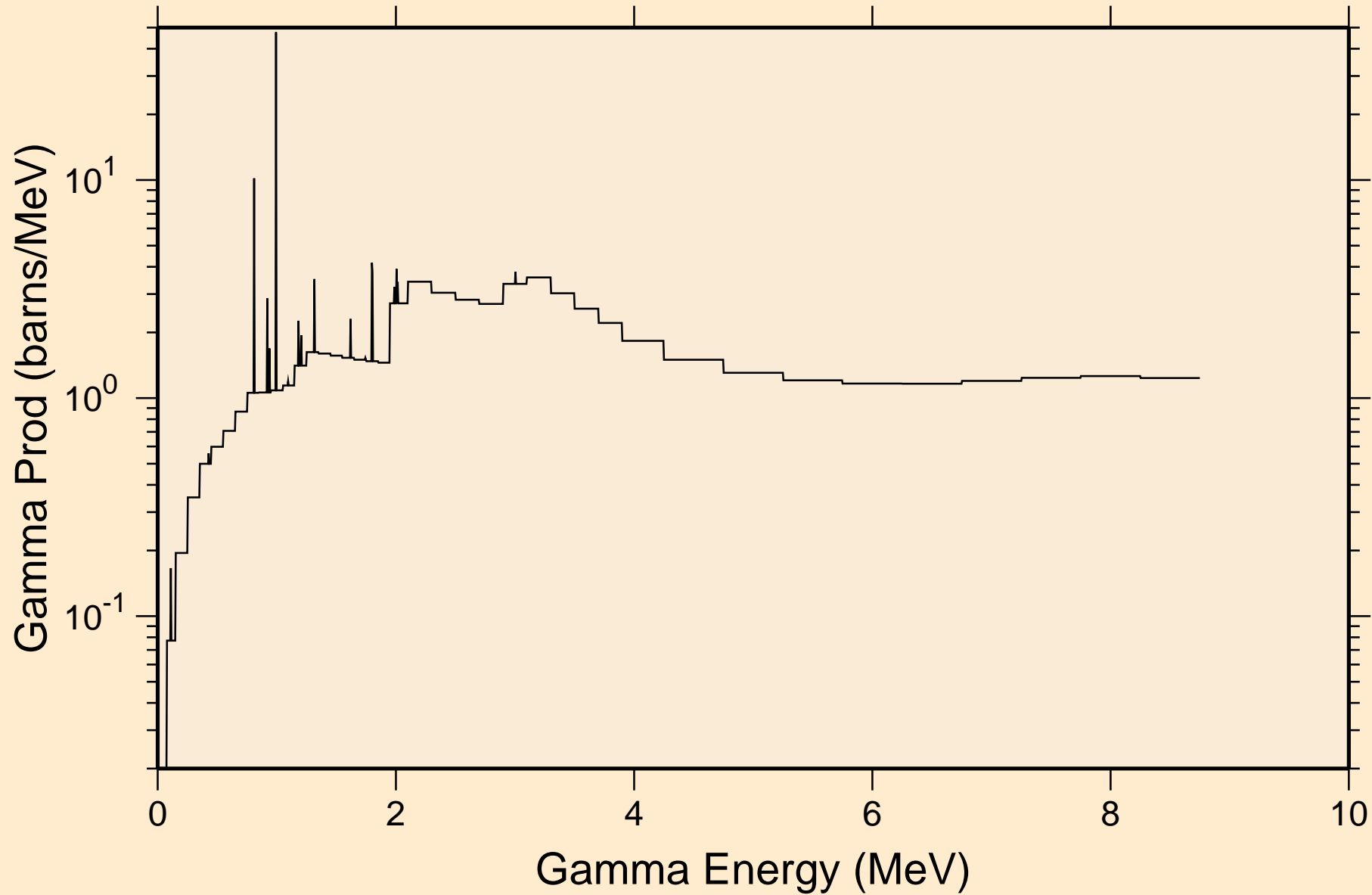
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Photon emission for (n,pt)



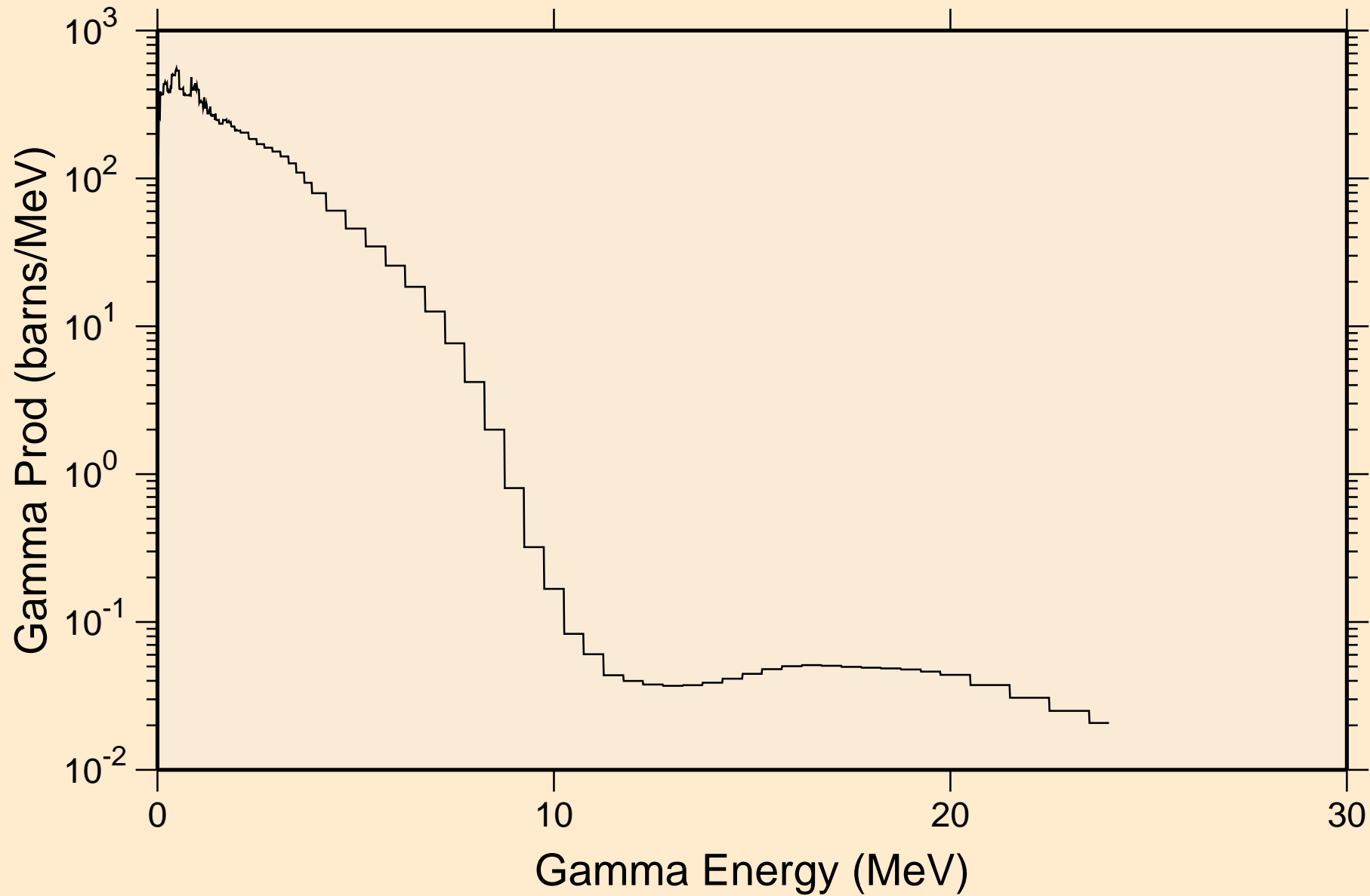
ZN063 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,da)



ZN063 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
thermal capture photon spectrum

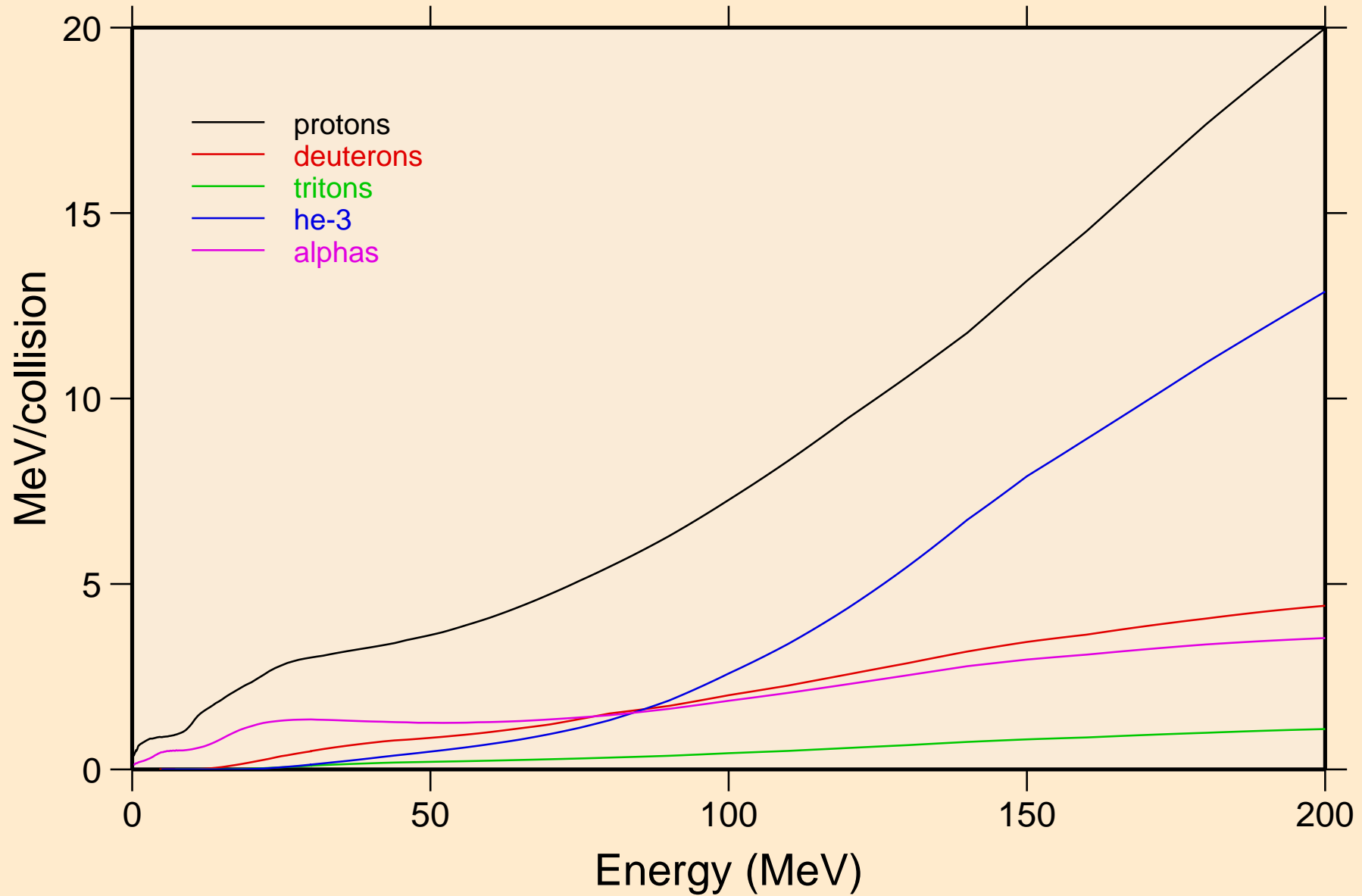


ZN063 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
14 MeV photon spectrum

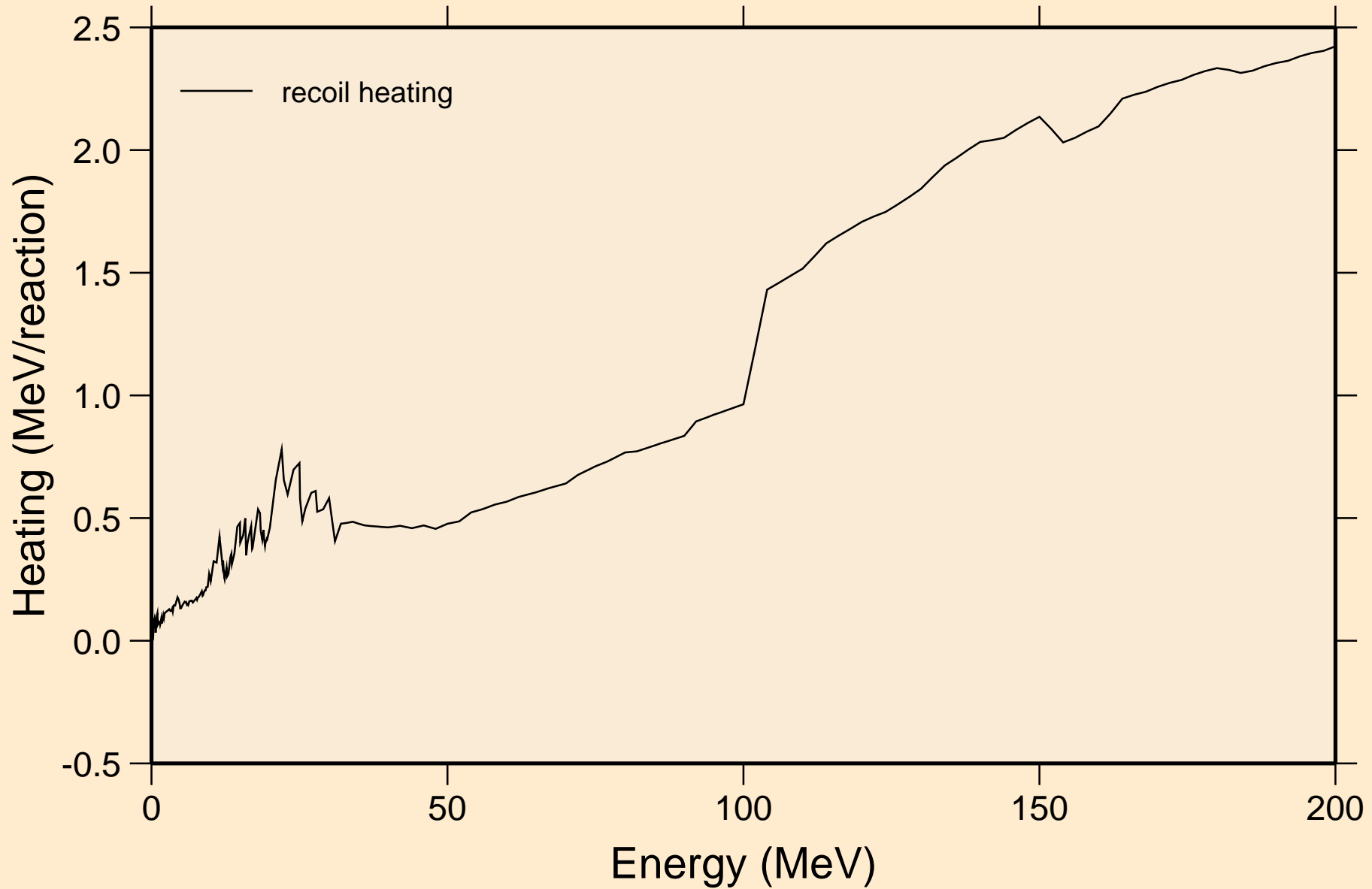


# ZN063 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

## Particle heating contributions



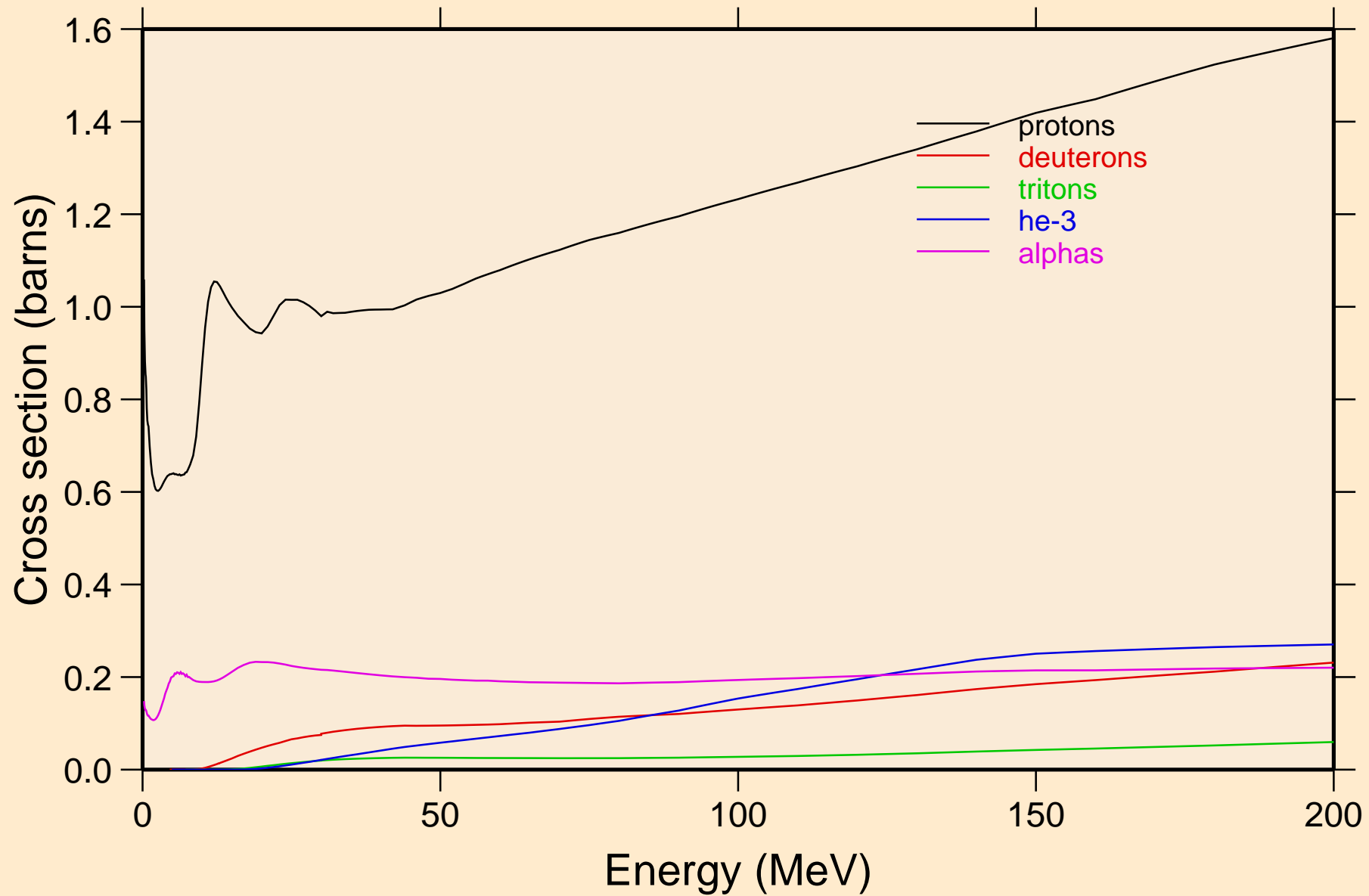
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Recoil Heating



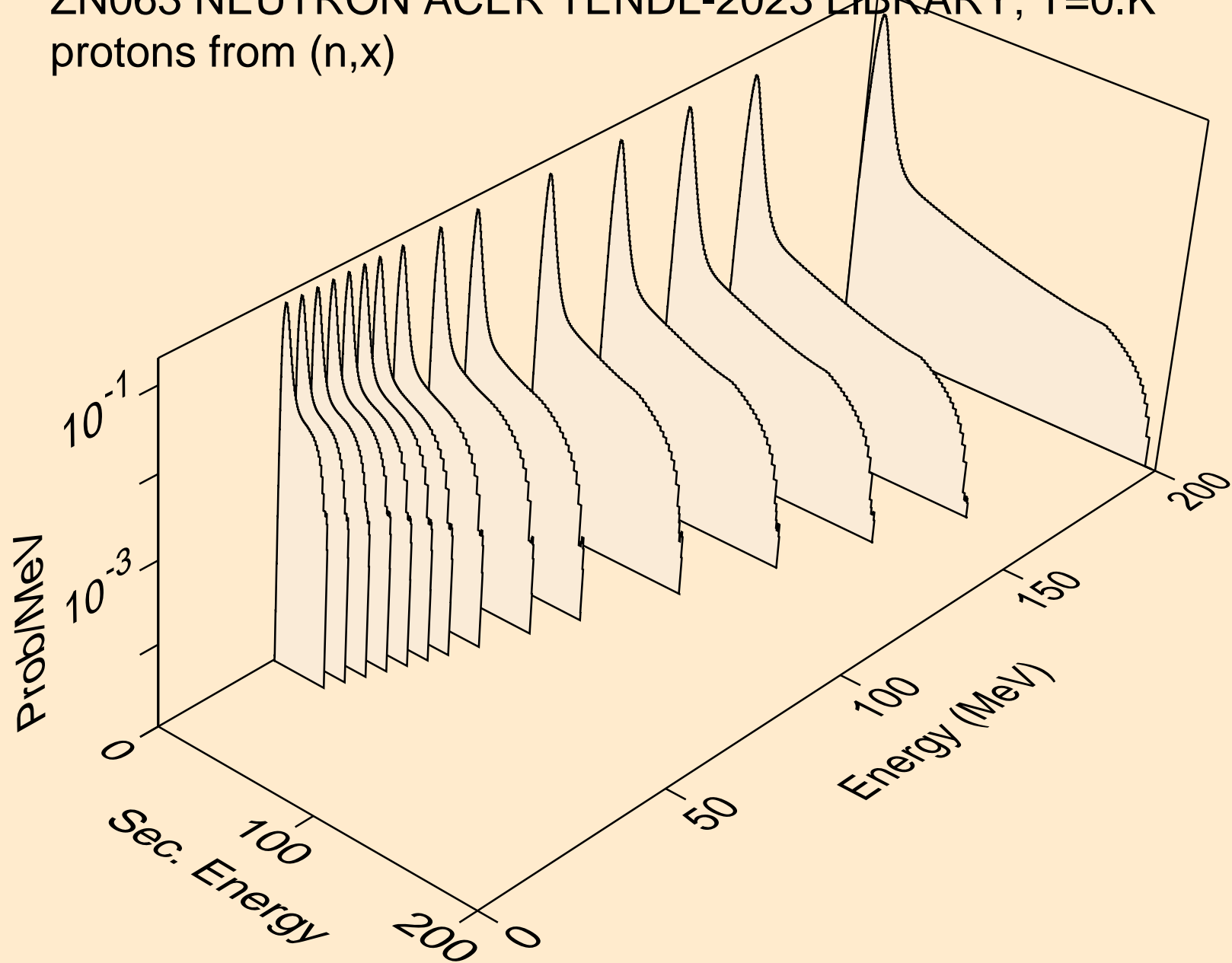


# ZN063 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

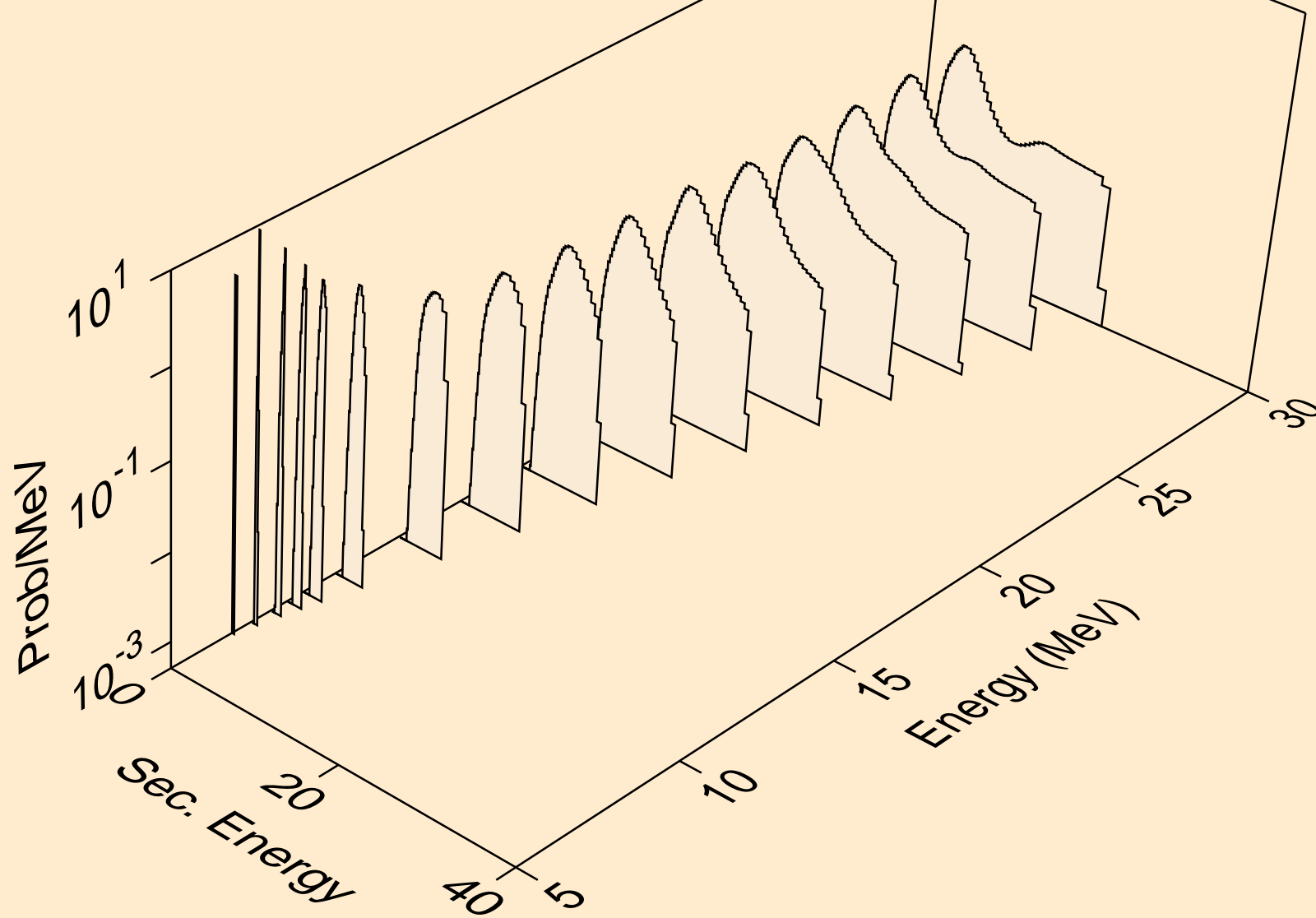
## Particle production cross sections



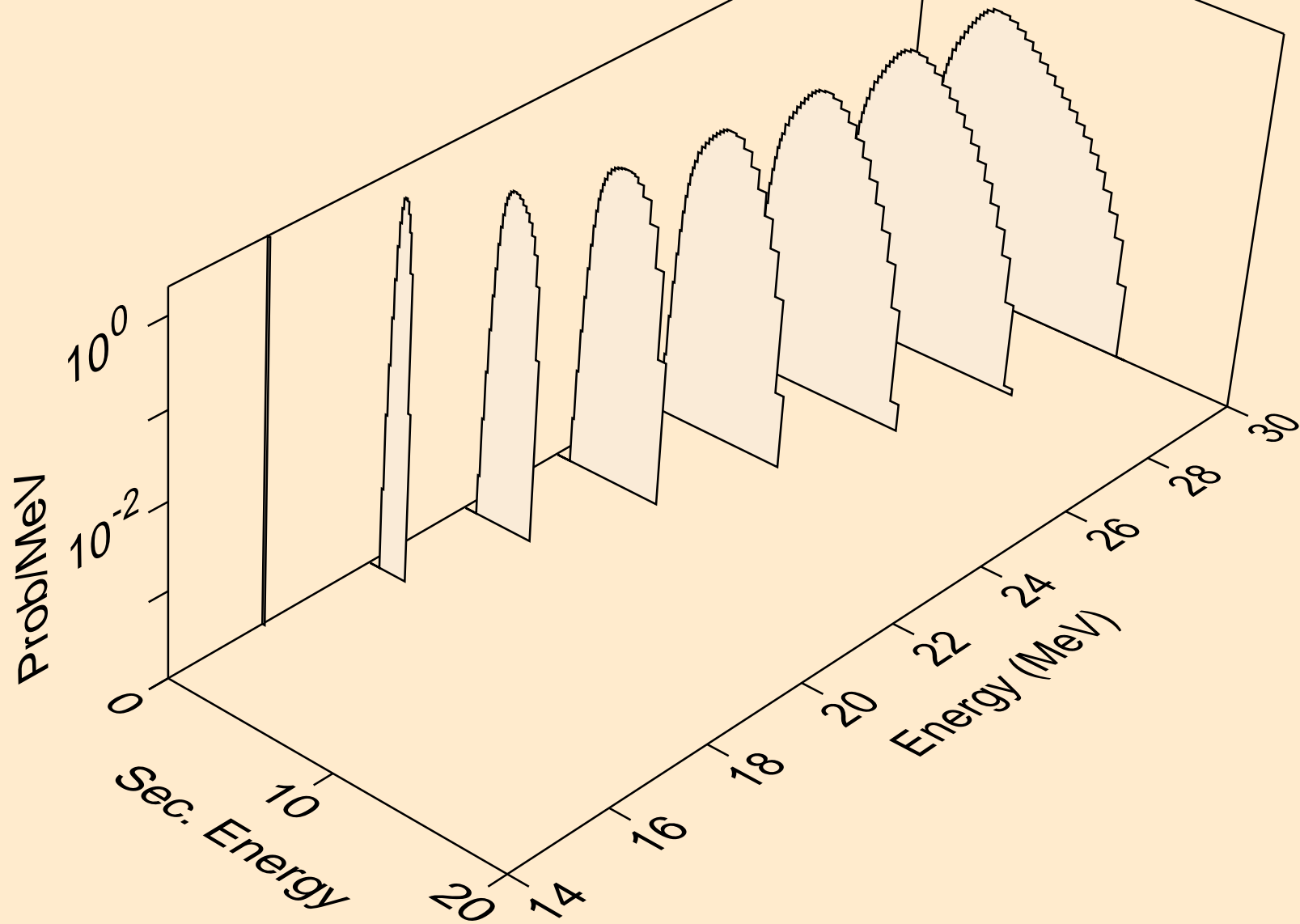
ZN063 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
protons from (n,x)



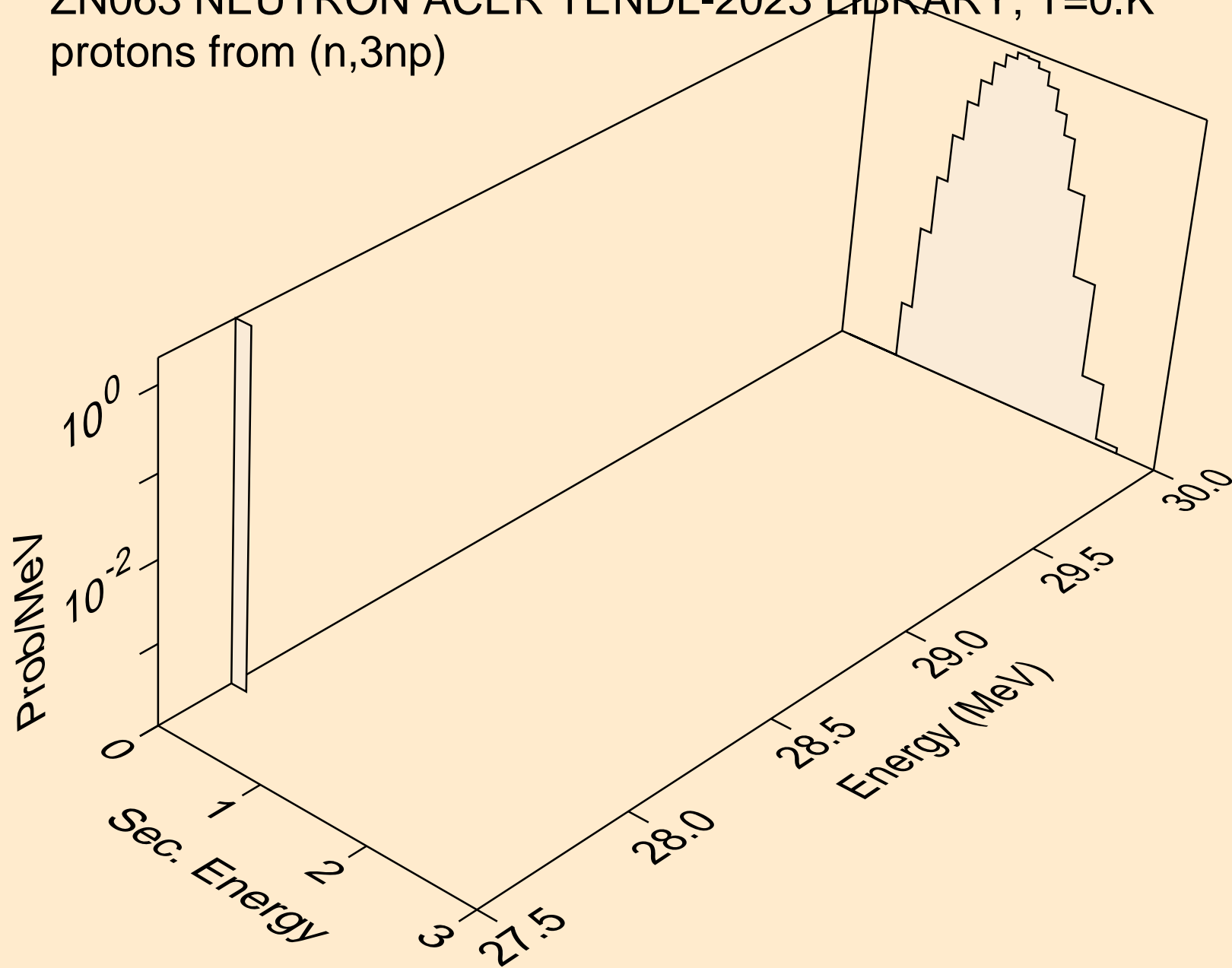
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protons from (n,n\*)p



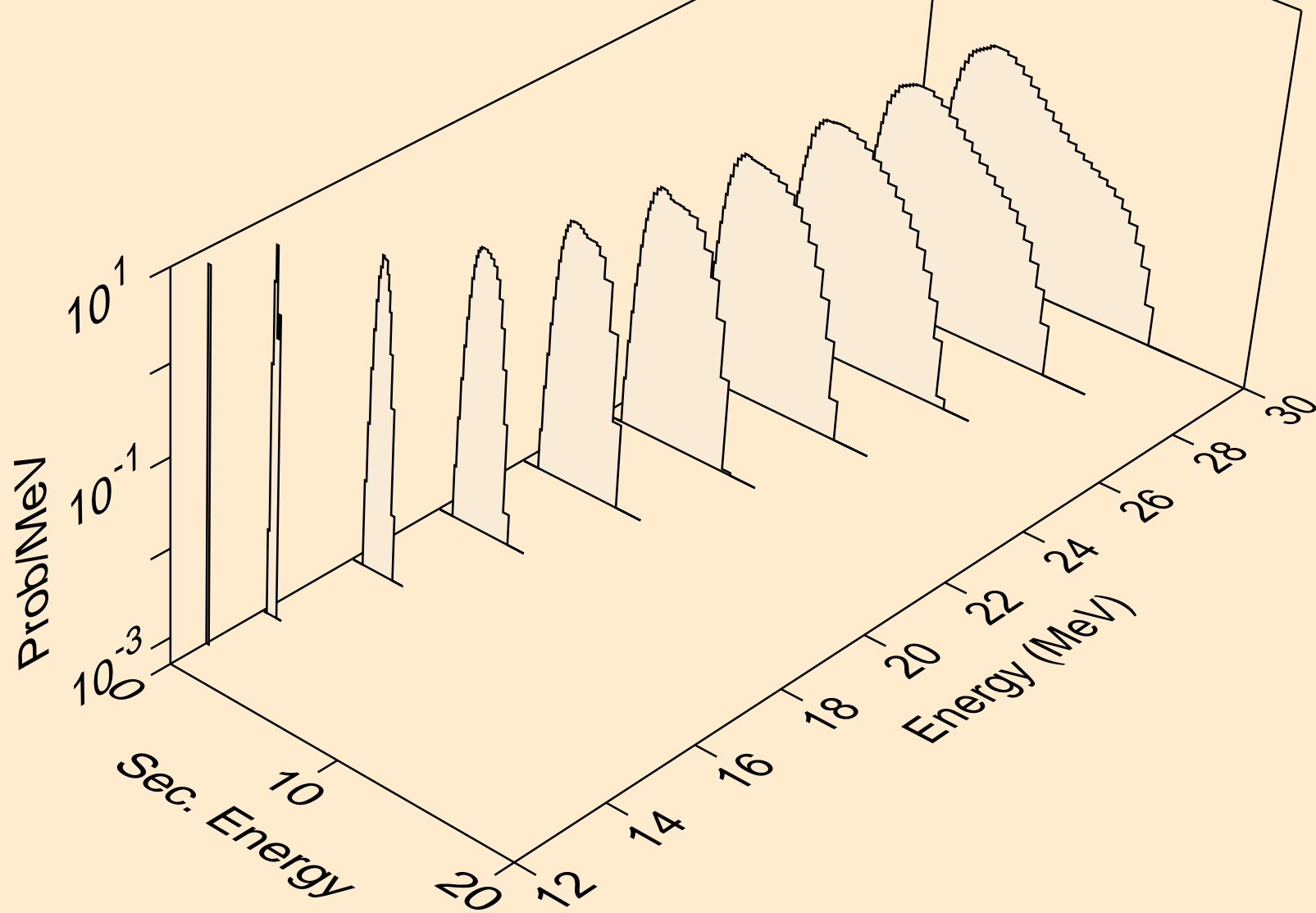
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protons from (n,2np)



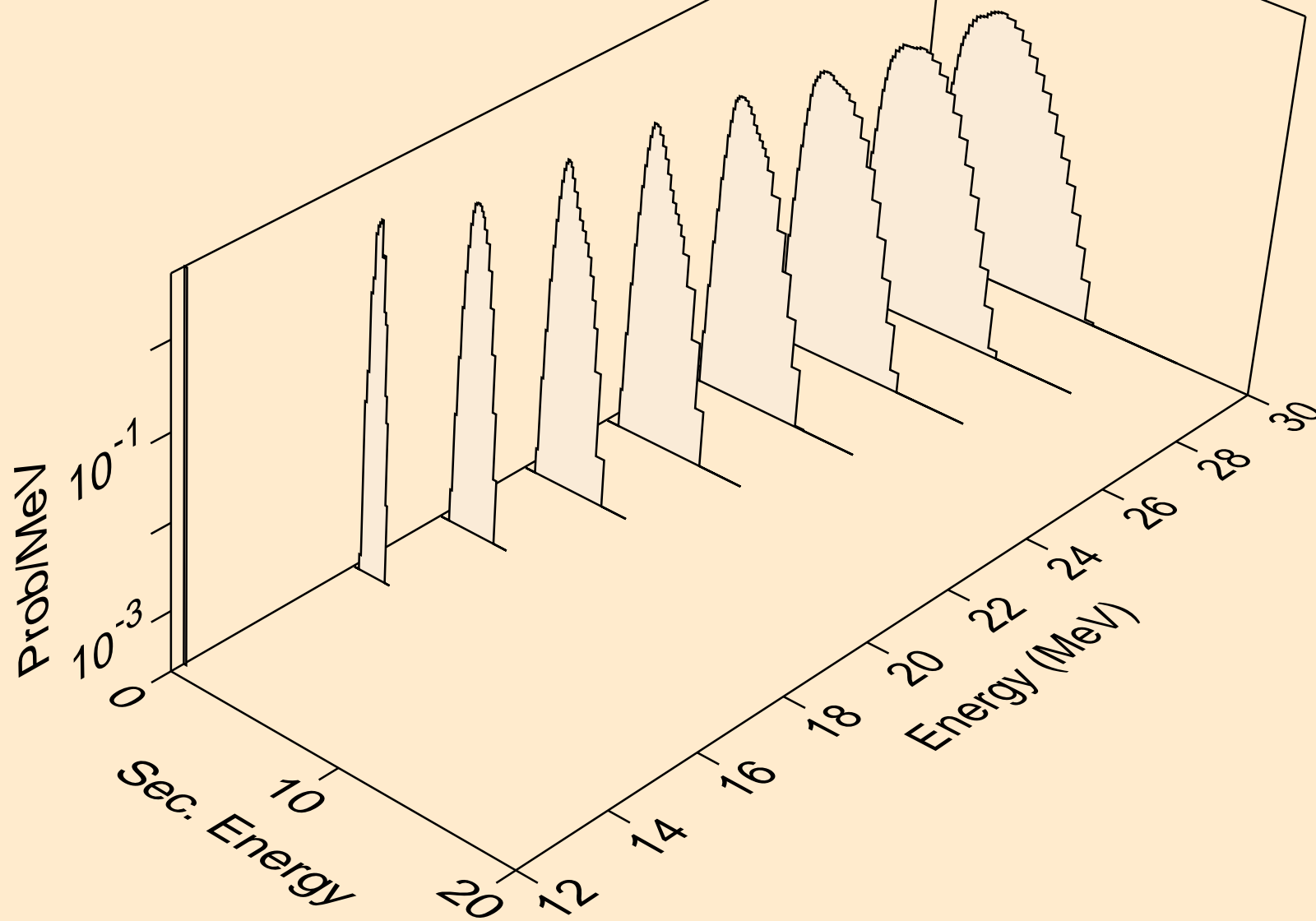
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protons from (n,3np)



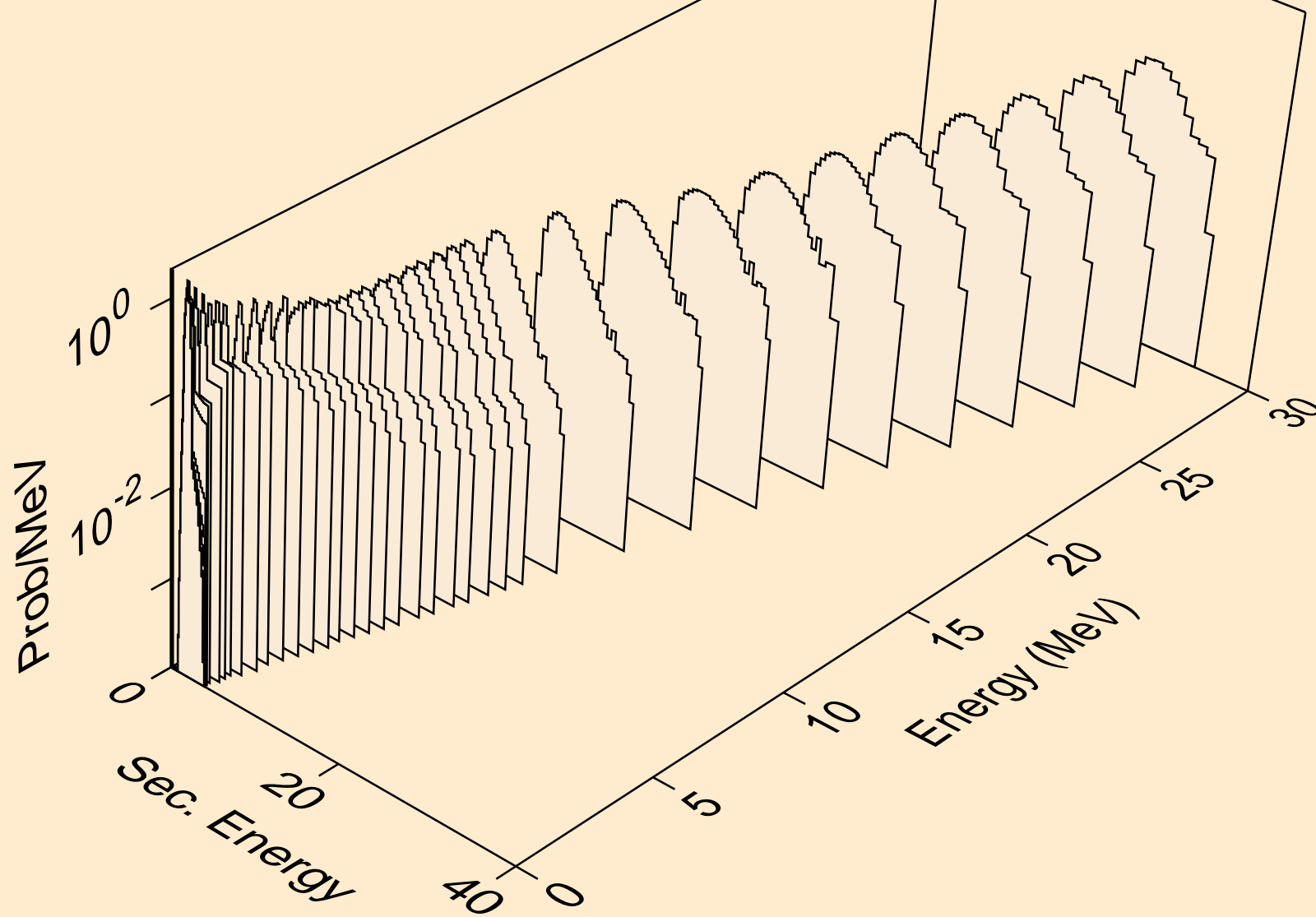
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protons from (n,n2p)



ZN063 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
protons from (n,npa)

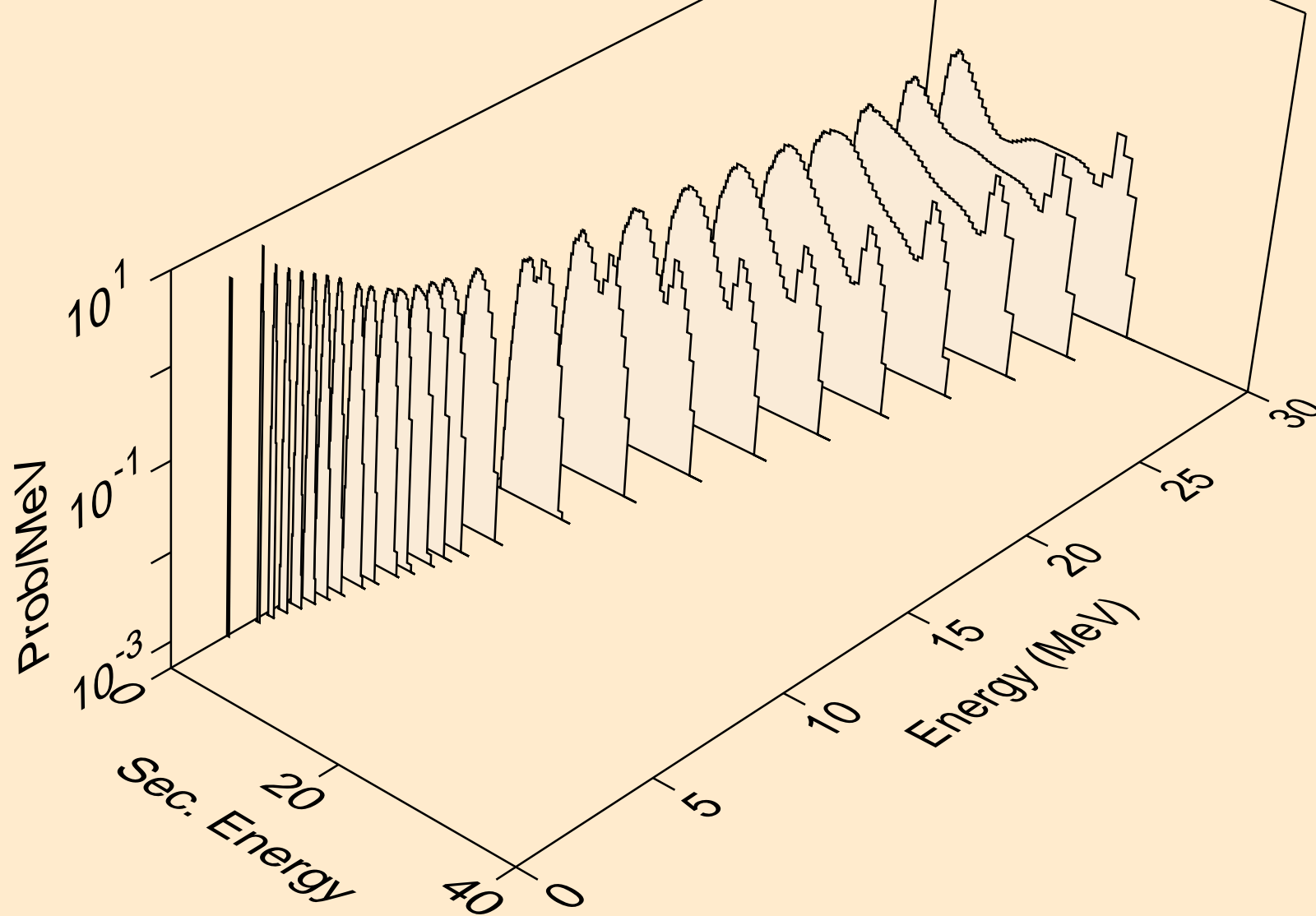


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protons from (n,p)

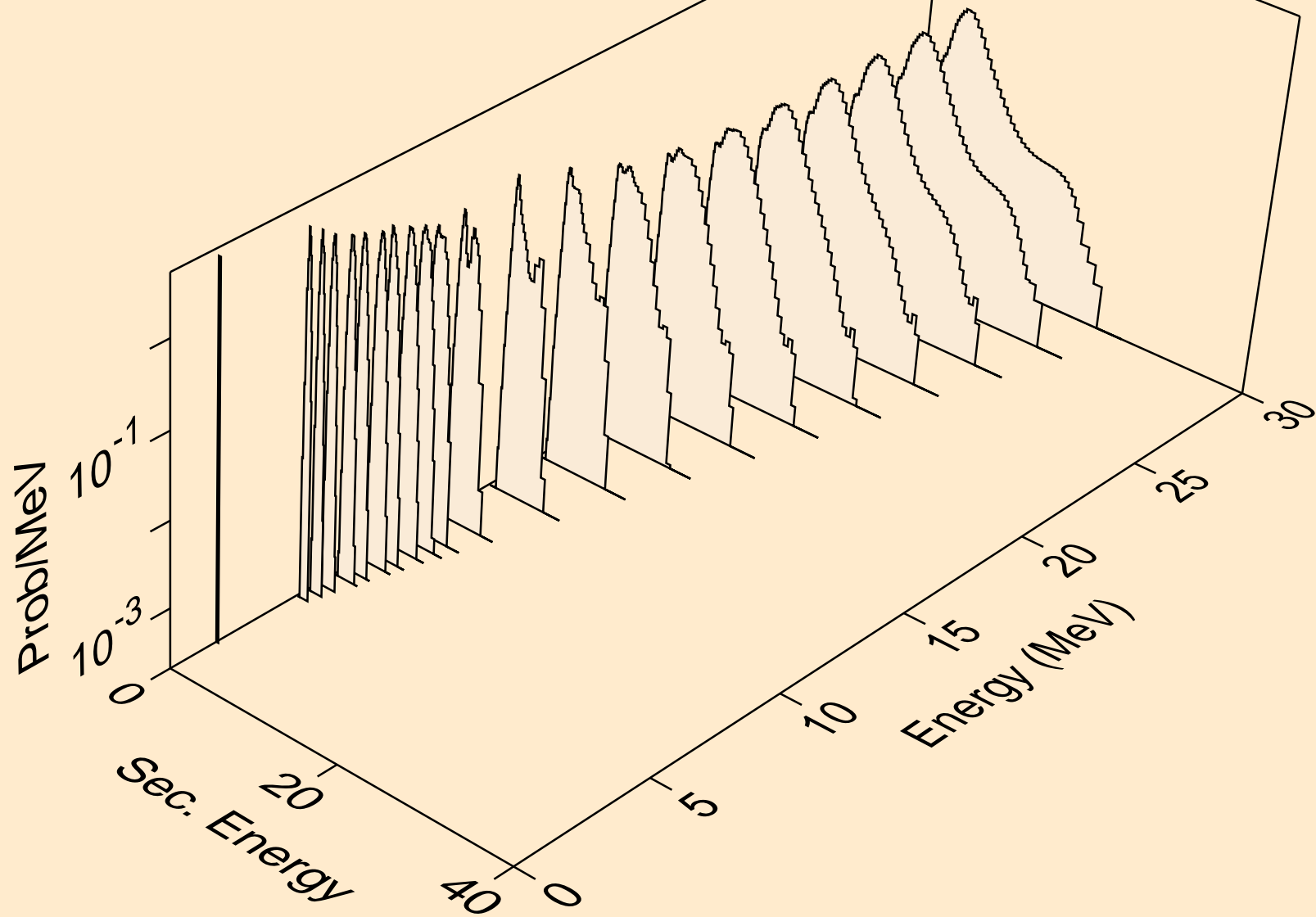




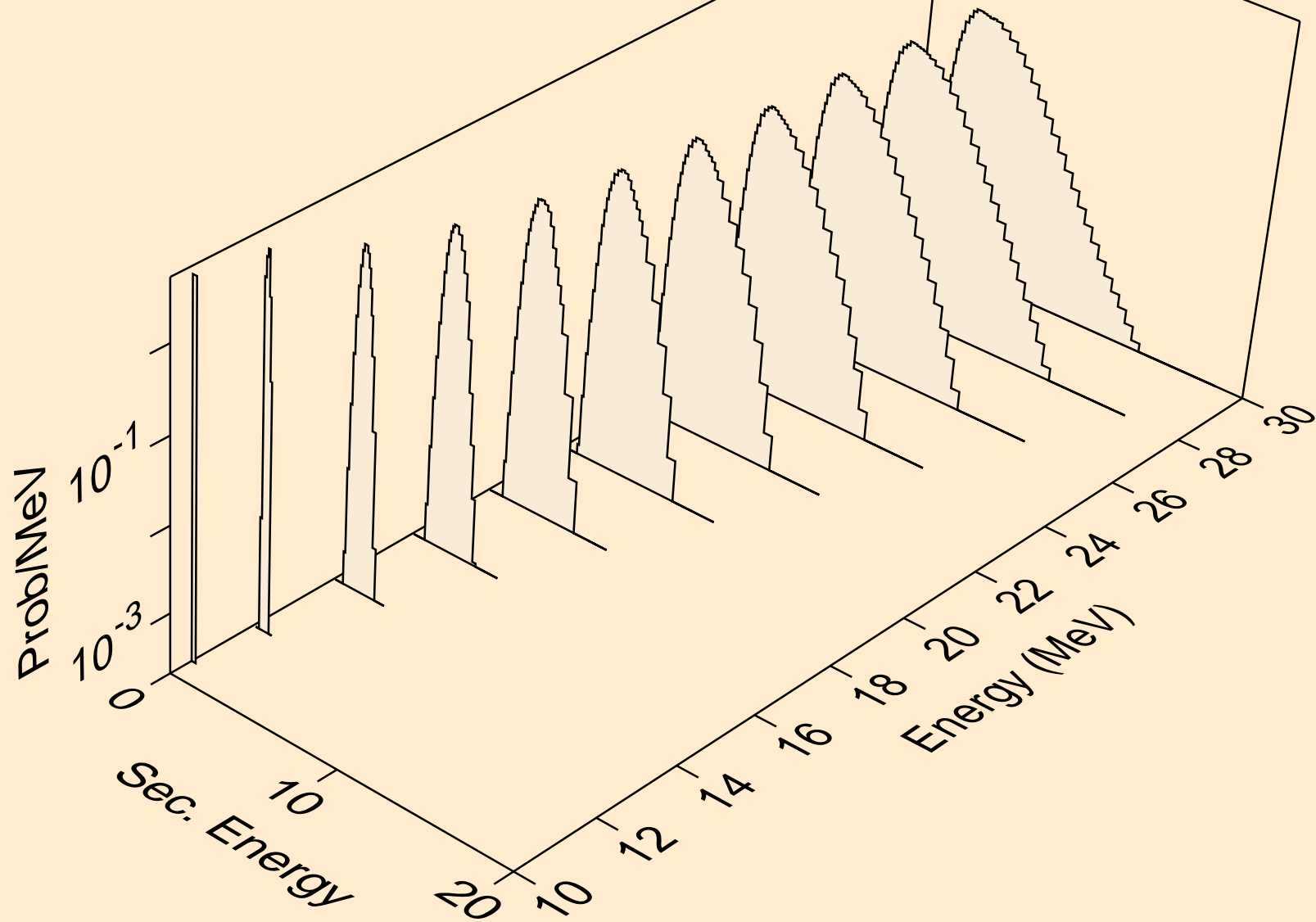
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protons from (n,2p)



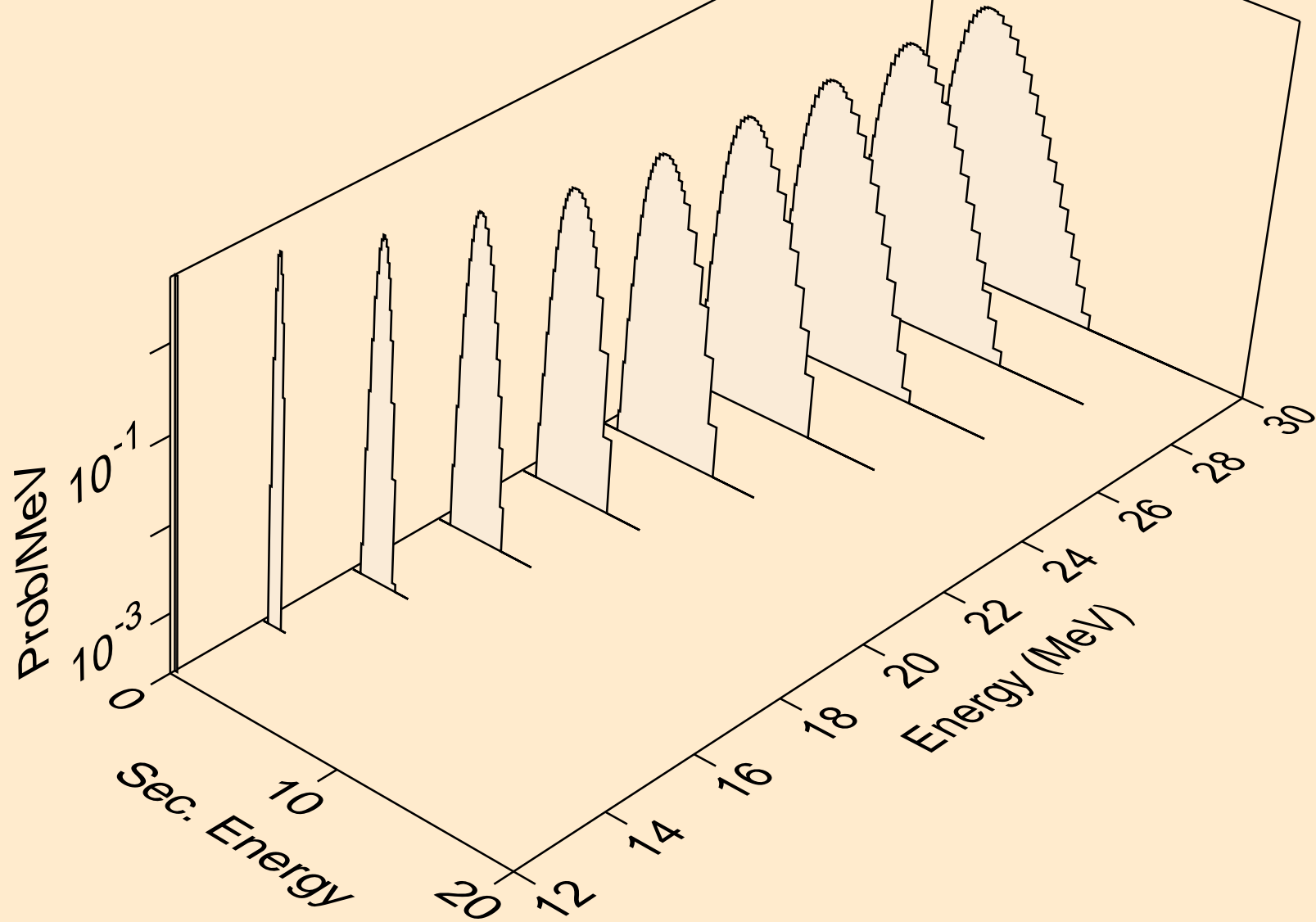
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protons from (n,p)



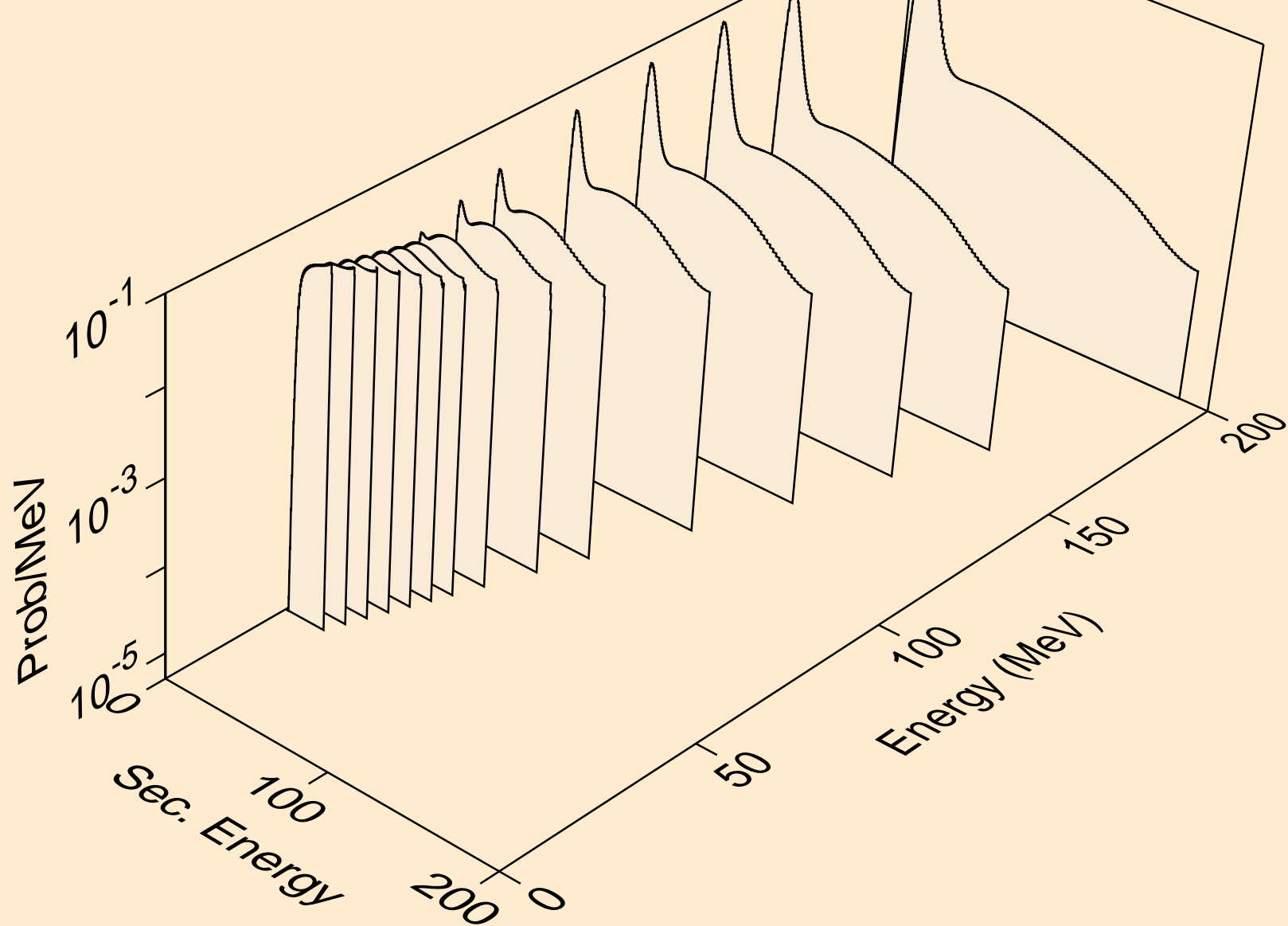
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protons from (n,pd)



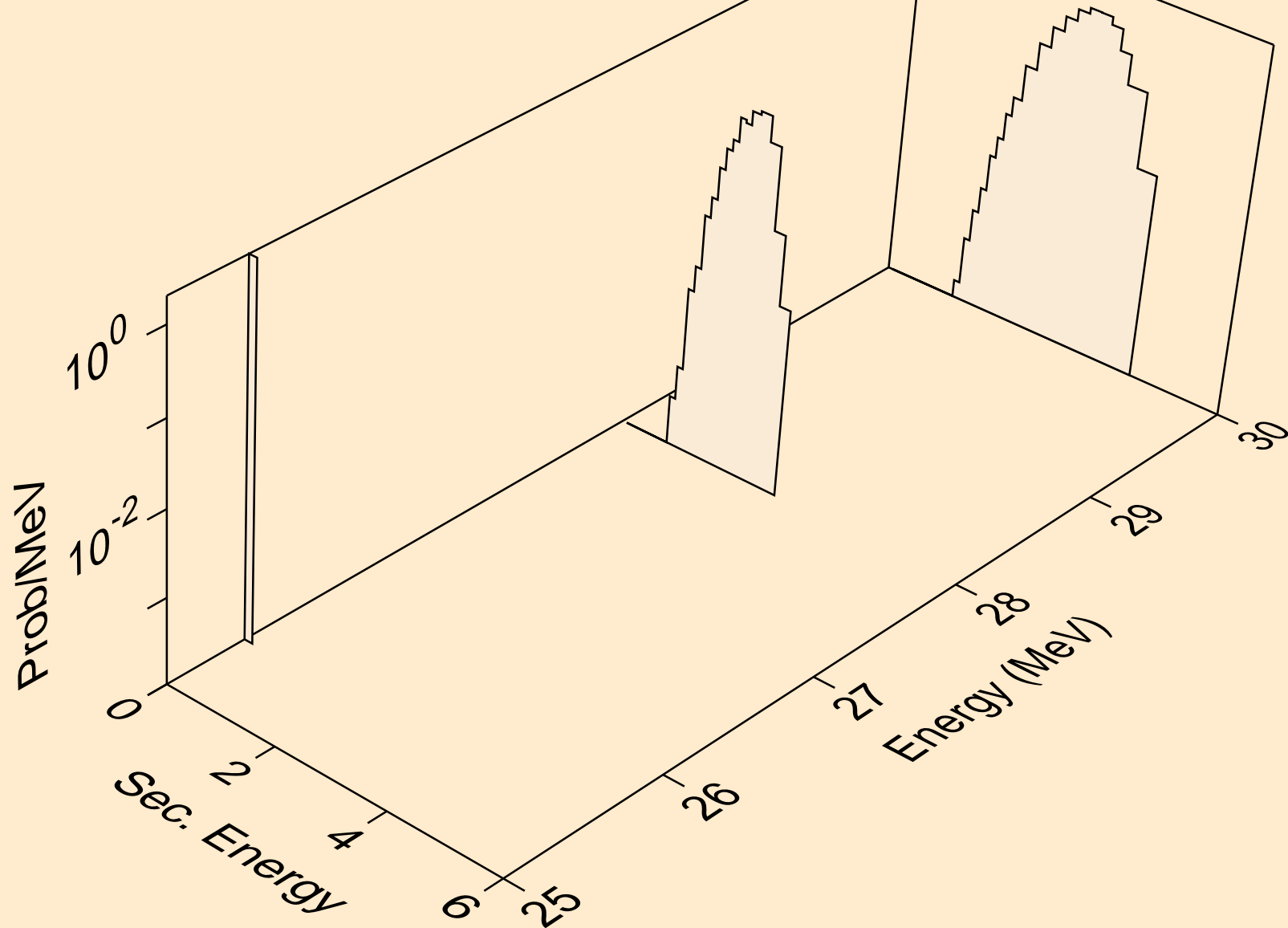
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protons from (n,pt)



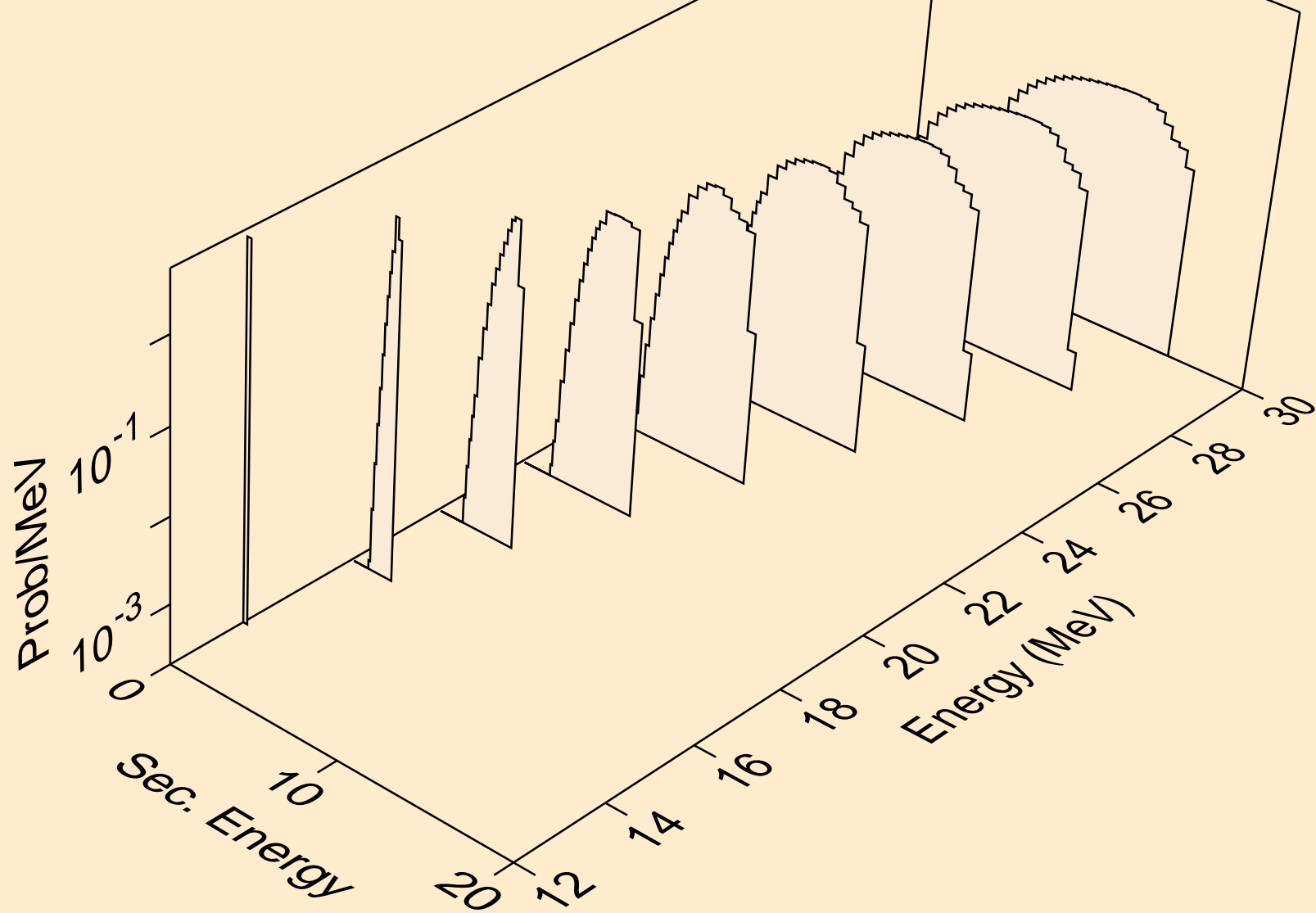
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deuterons from (n,x)



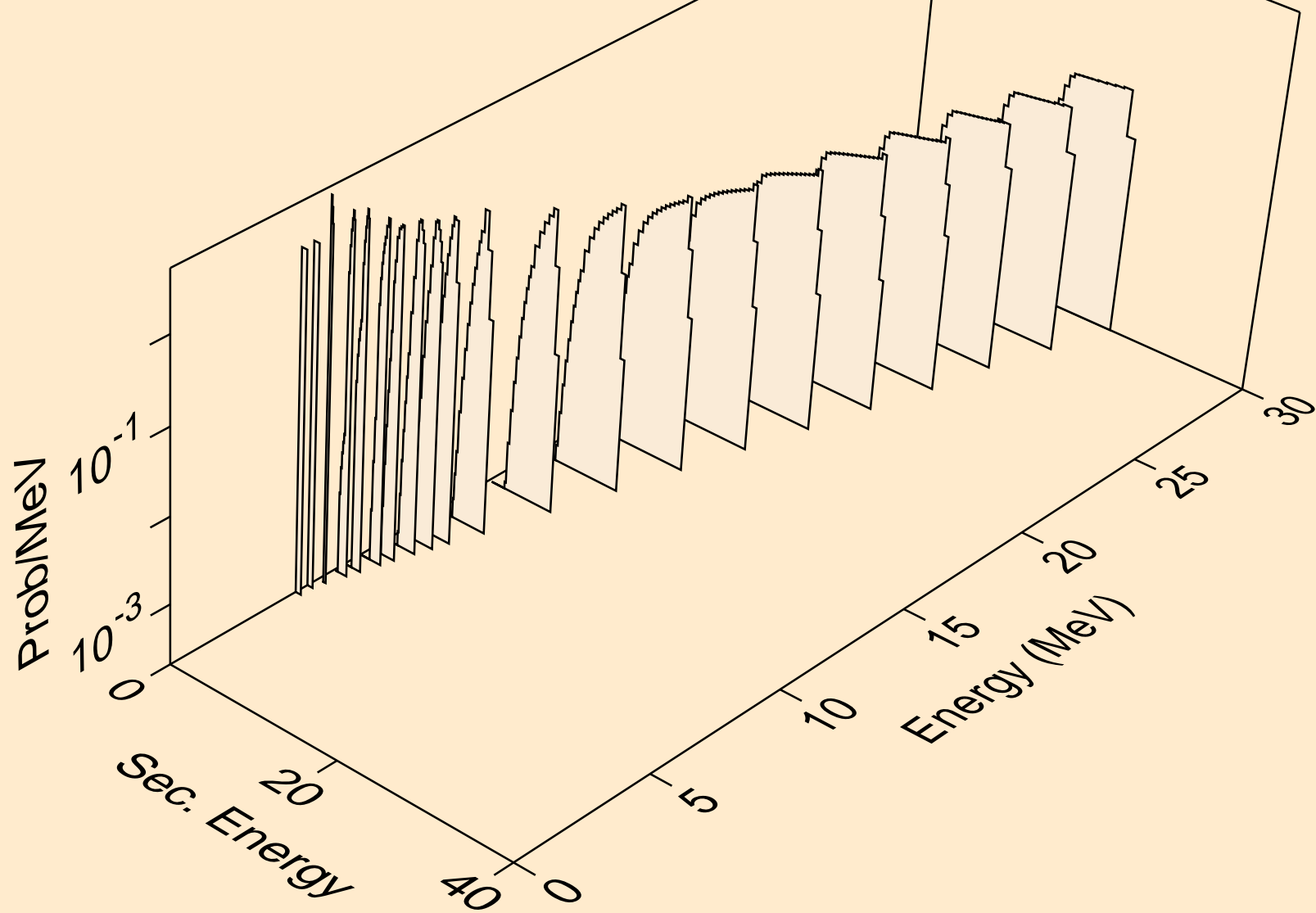
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deuterons from (n,2nd)



ZN063 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
deuterons from (n,n\*)d

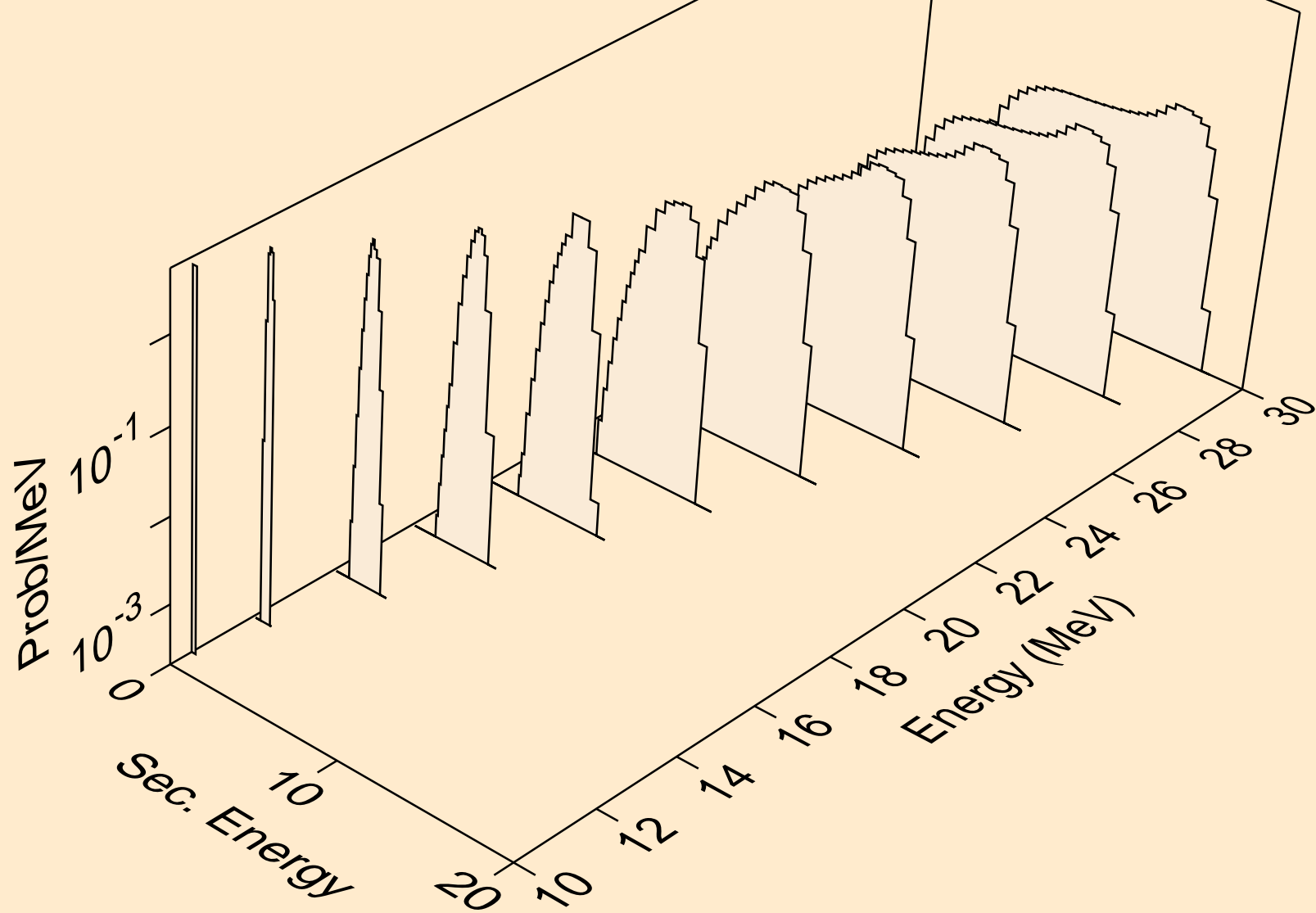


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deuterons from (n,d)

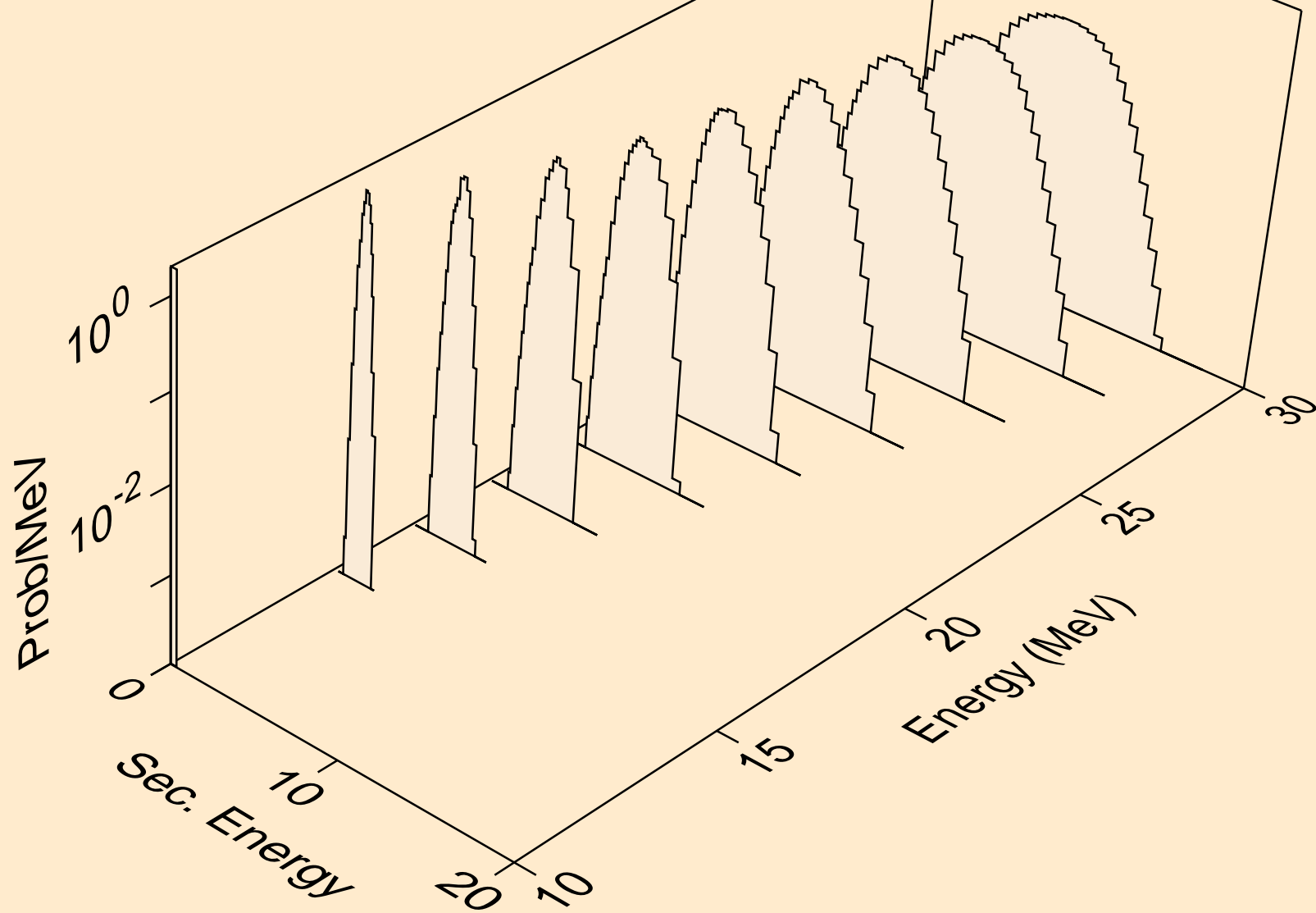




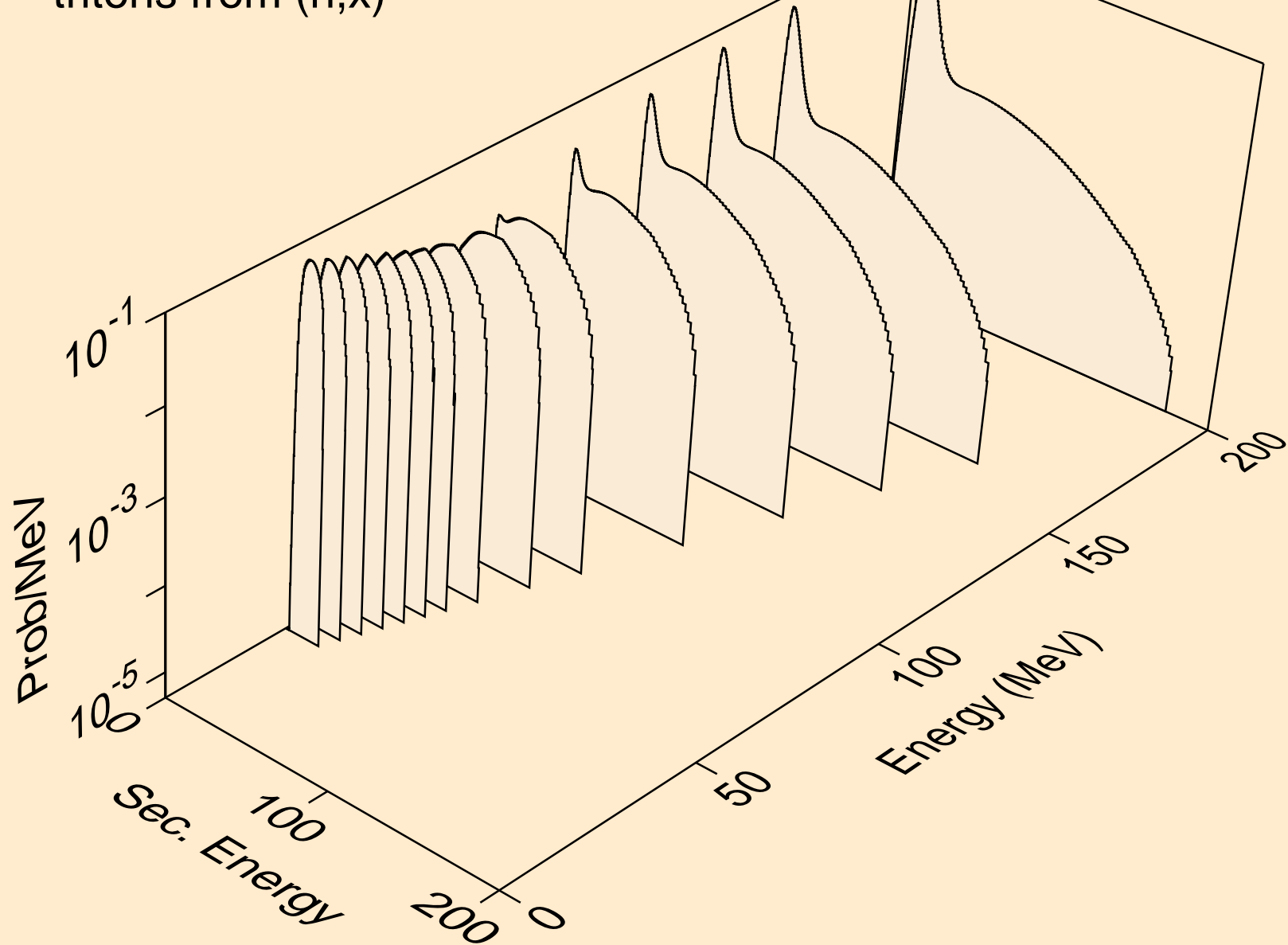
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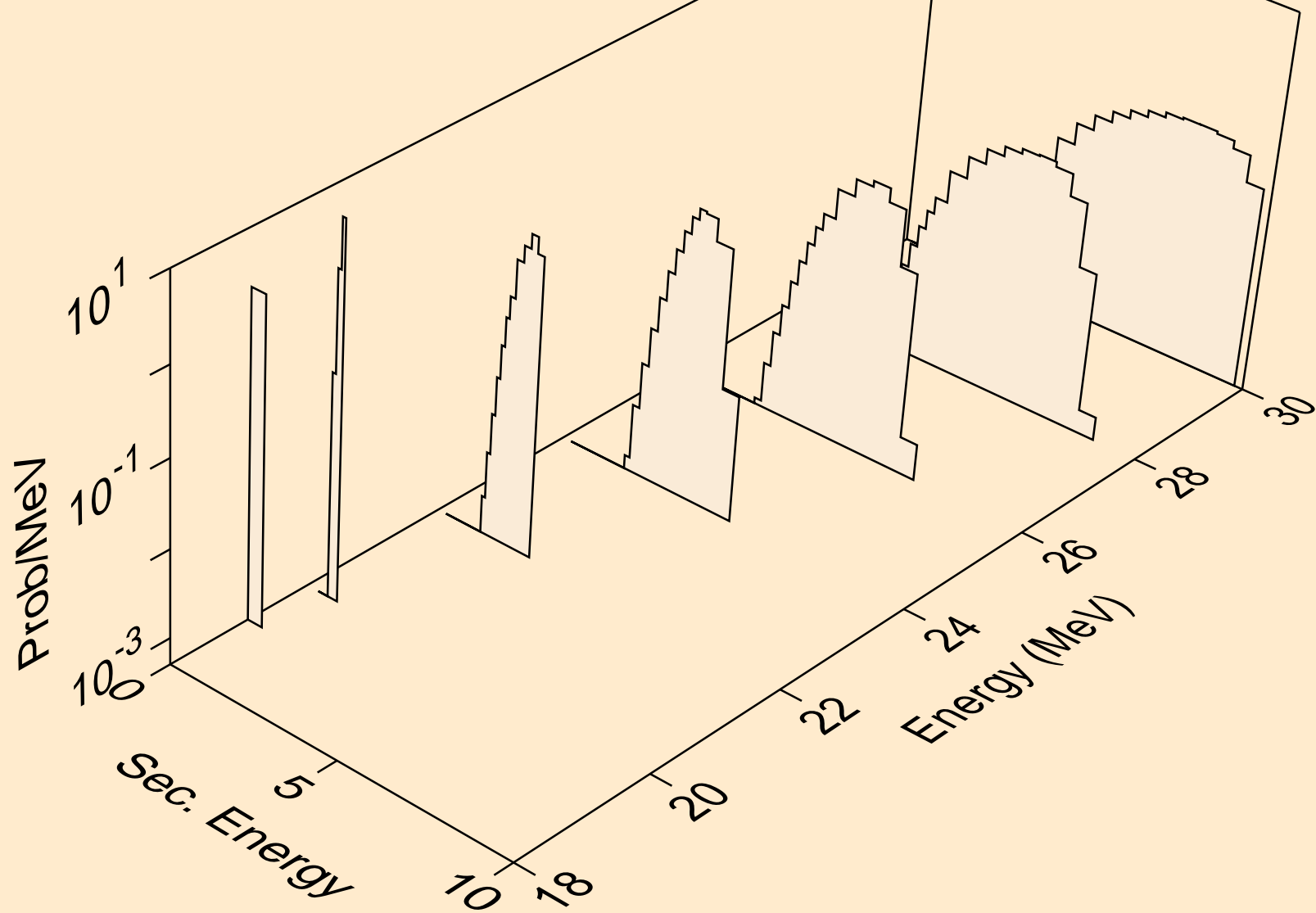
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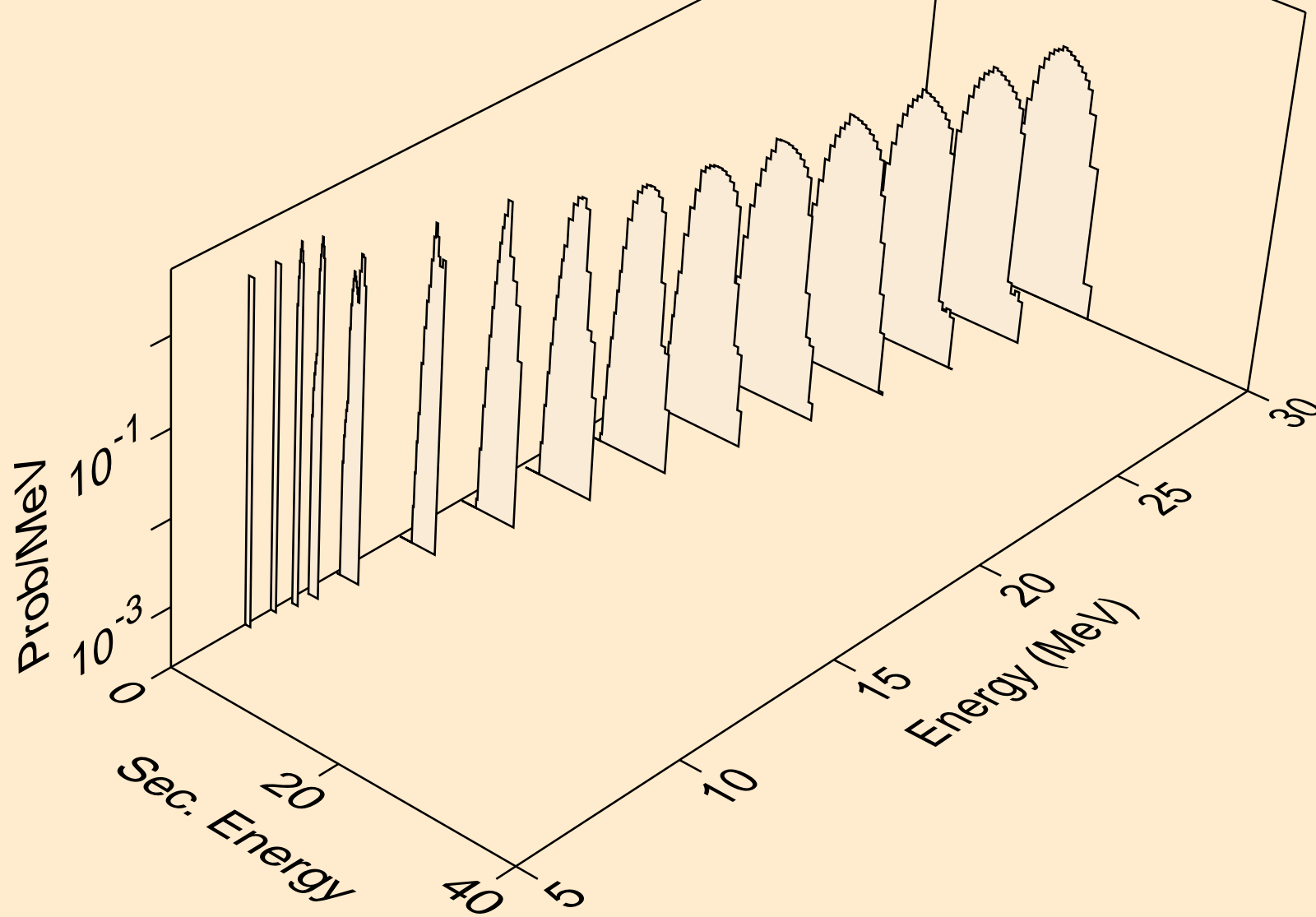
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tritons from (n,x)



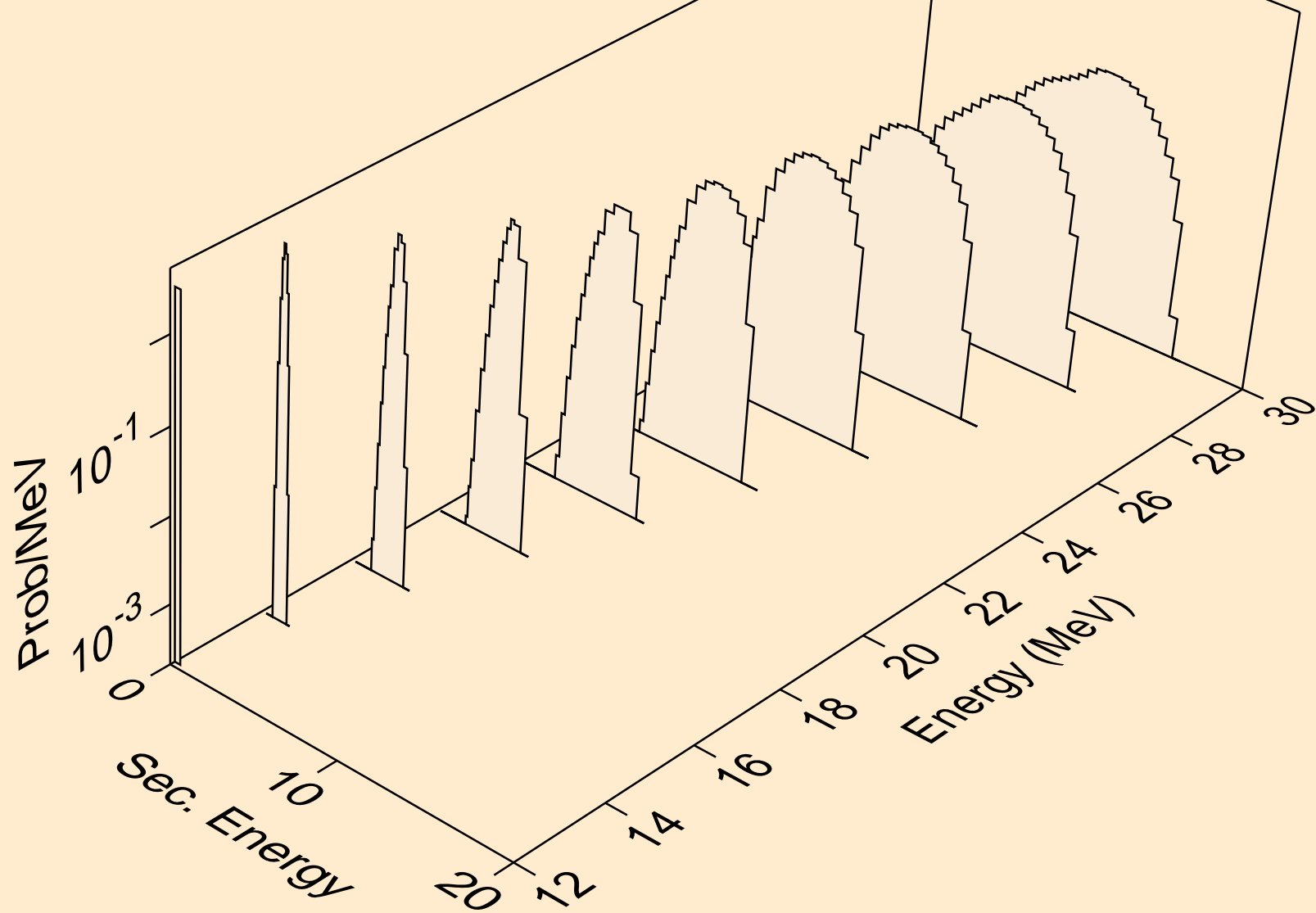
ZN063 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
tritons from (n,n\*)t



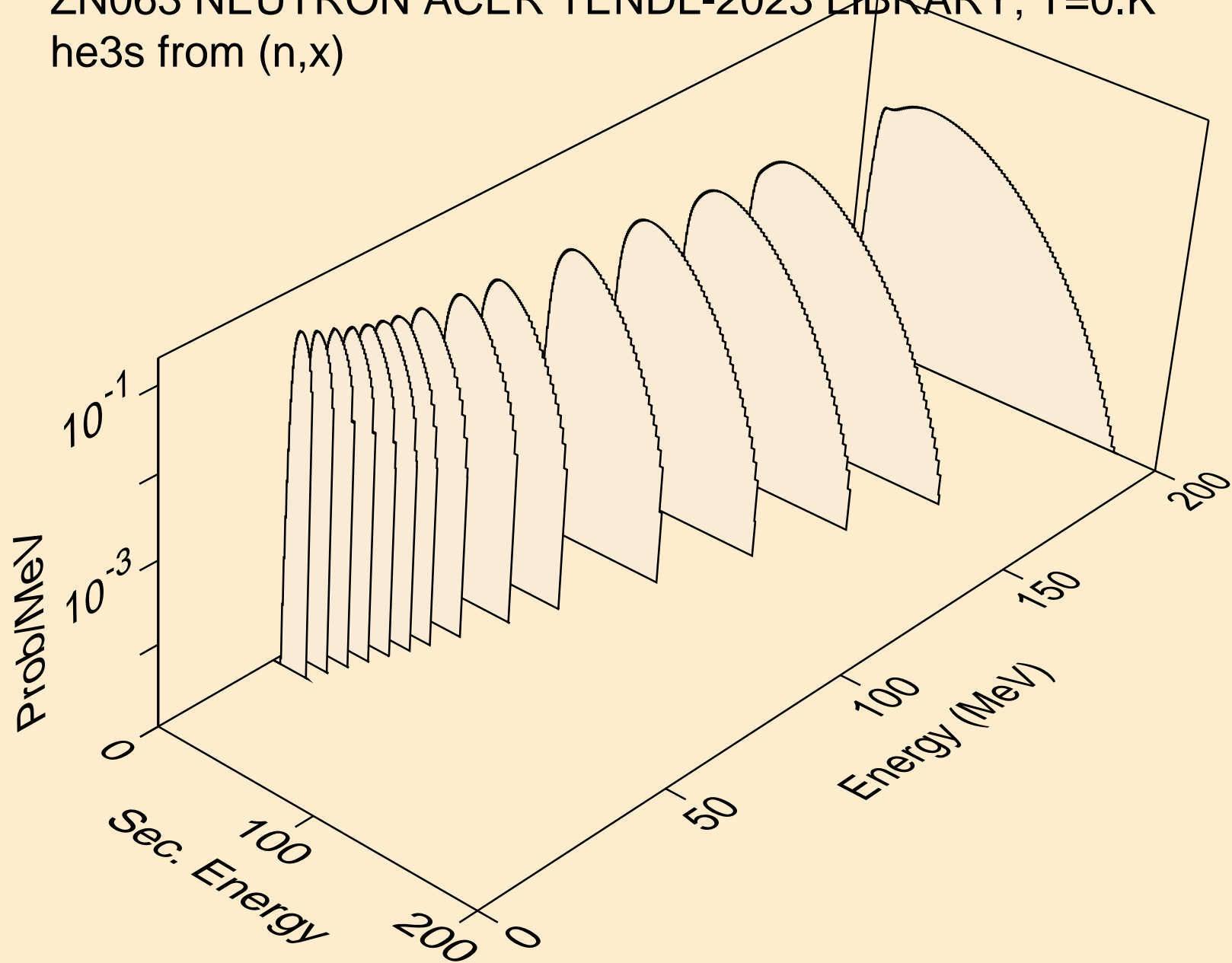
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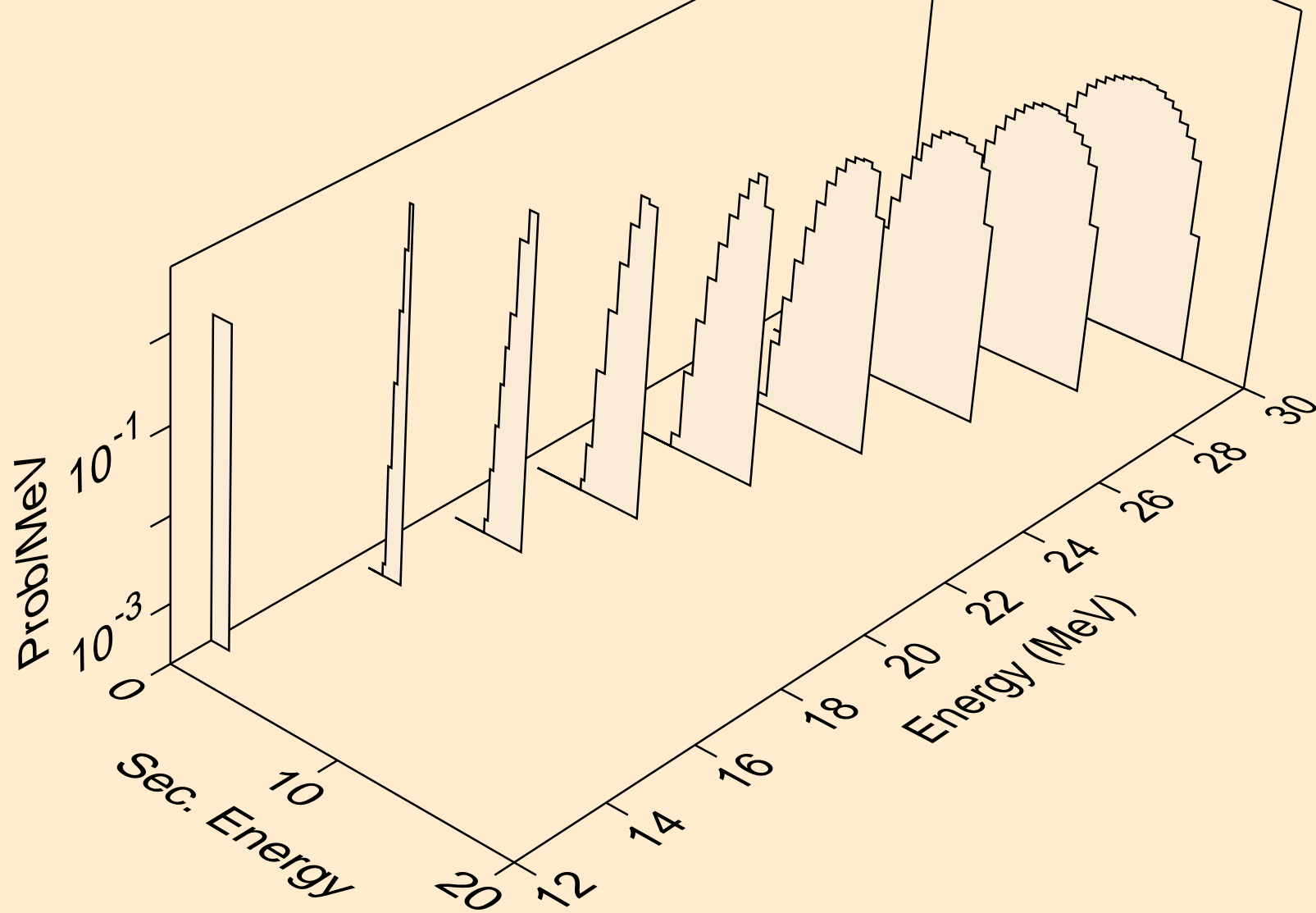
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tritons from (n,pt)



ZN063 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
he3s from (n,x)

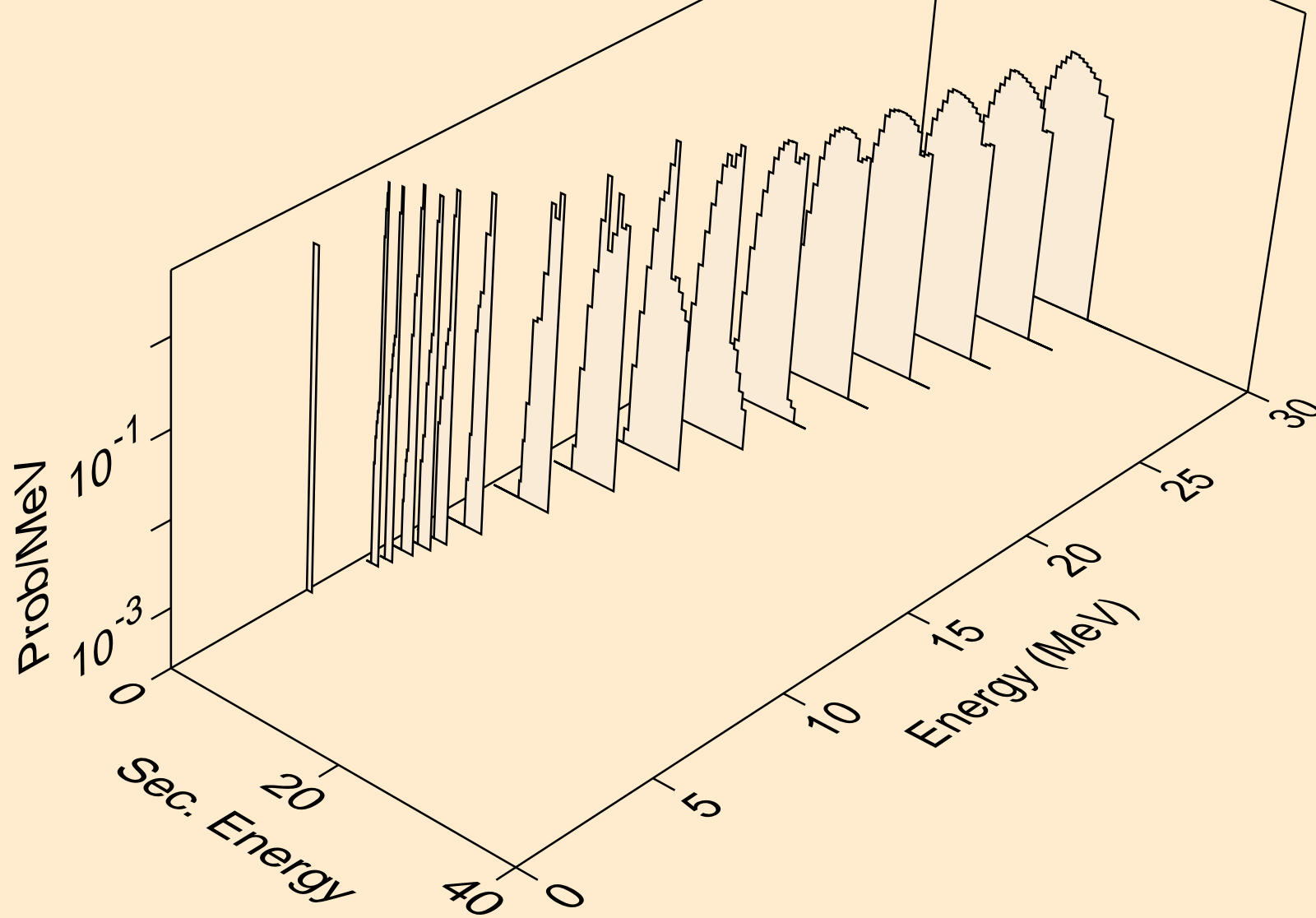


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he3s from (n,n\*)he3

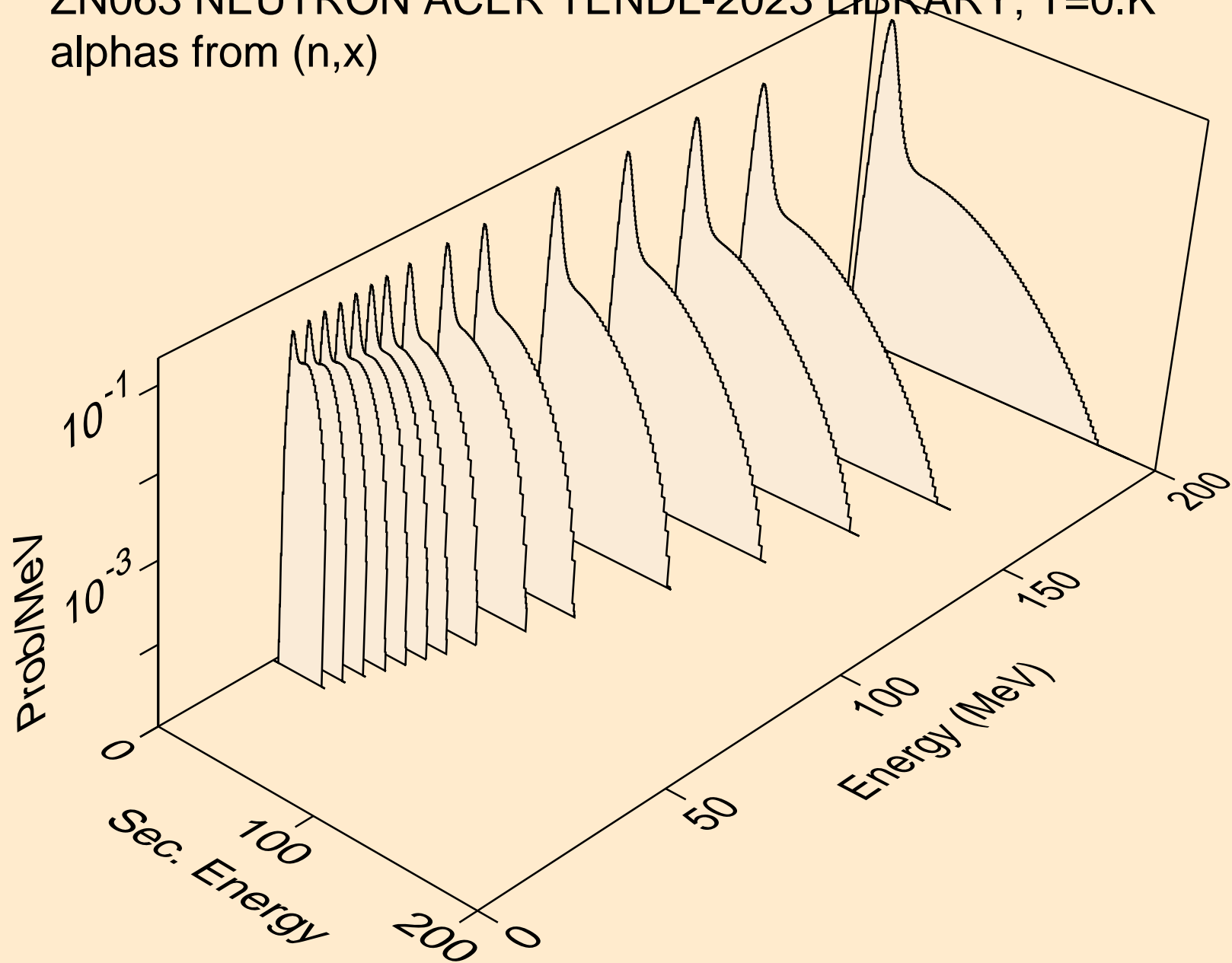




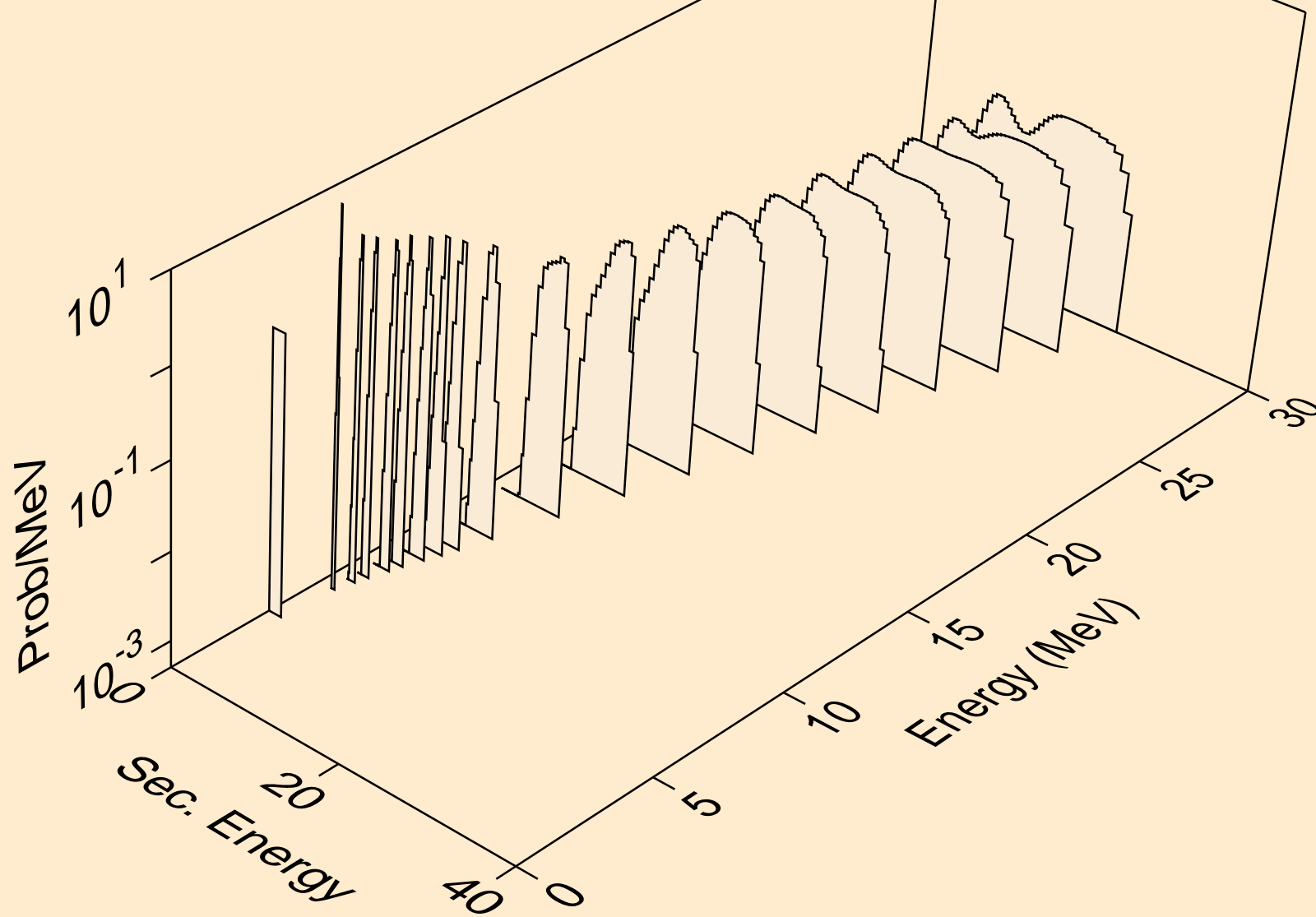
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he3s from (n,he3)



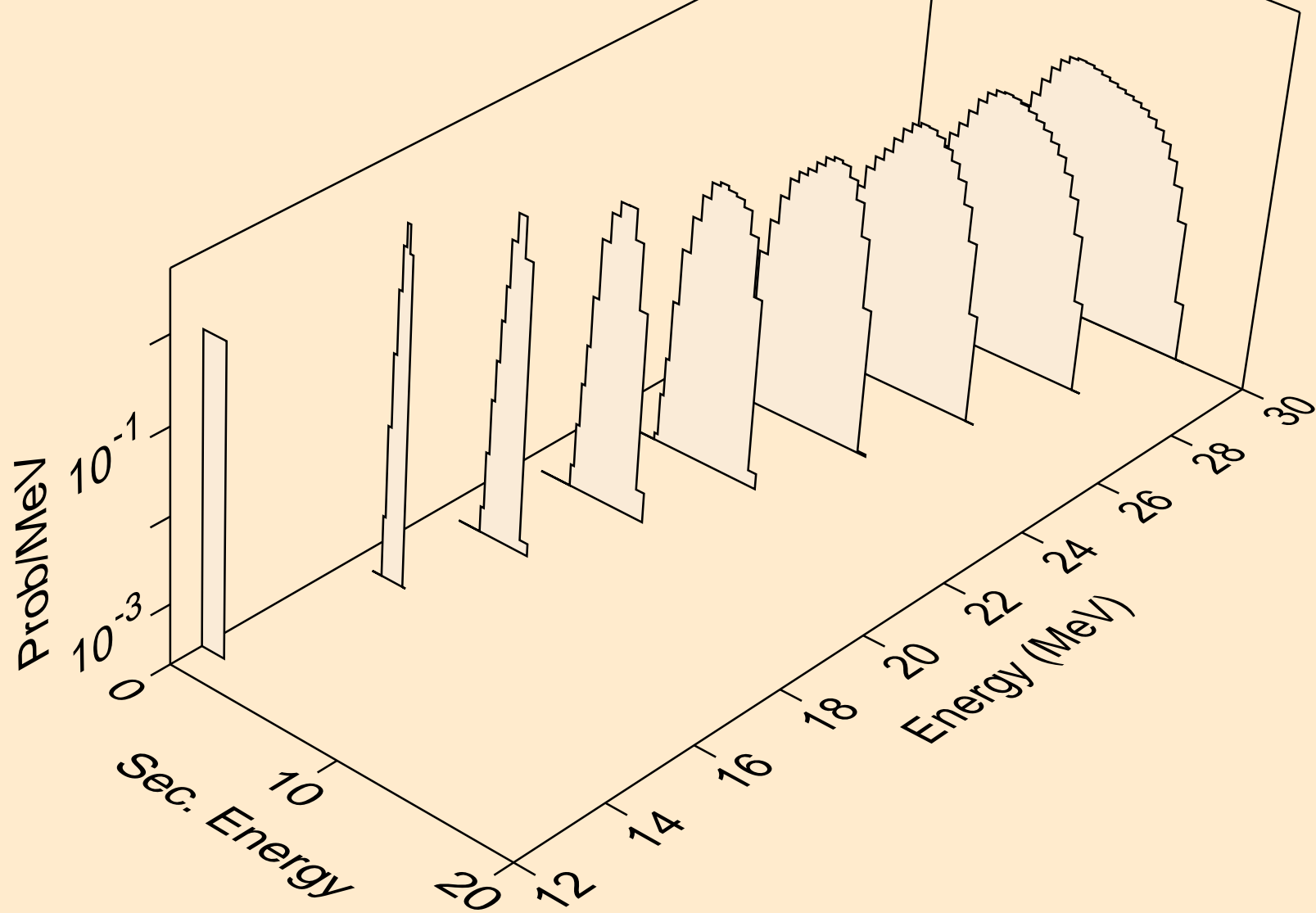
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alphas from (n,x)



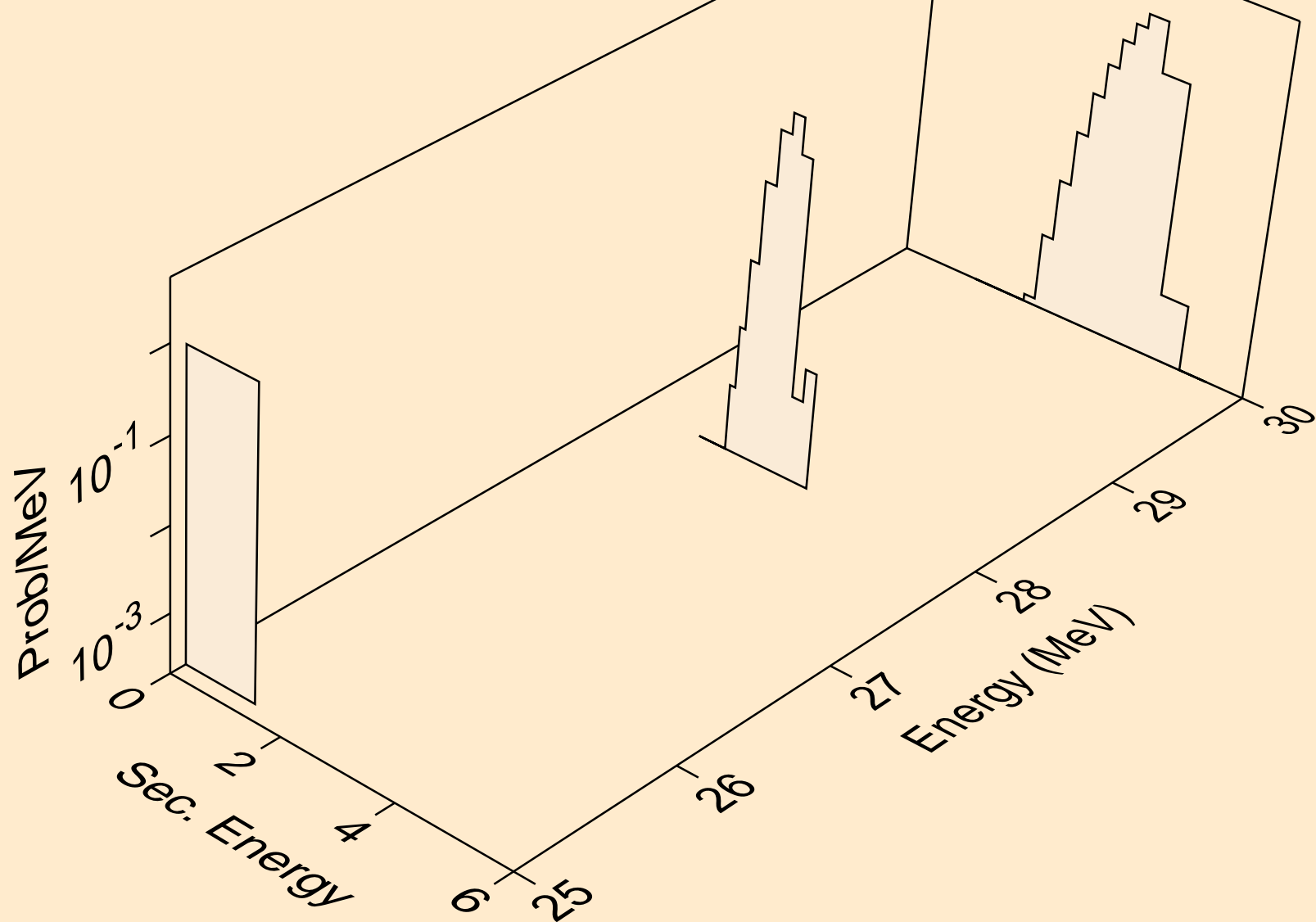
ZN063 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,n\*)a



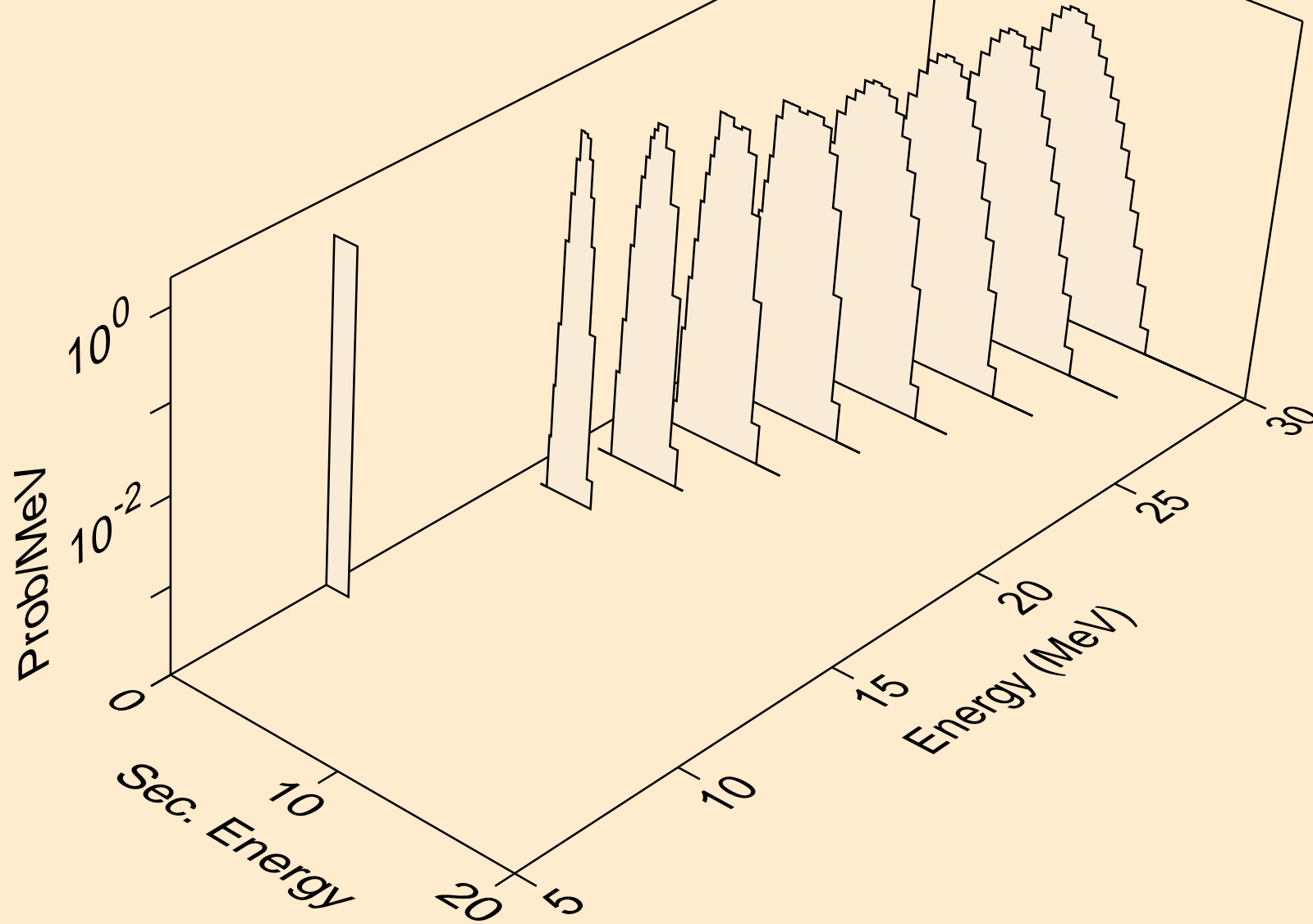
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alphas from (n,2n)a



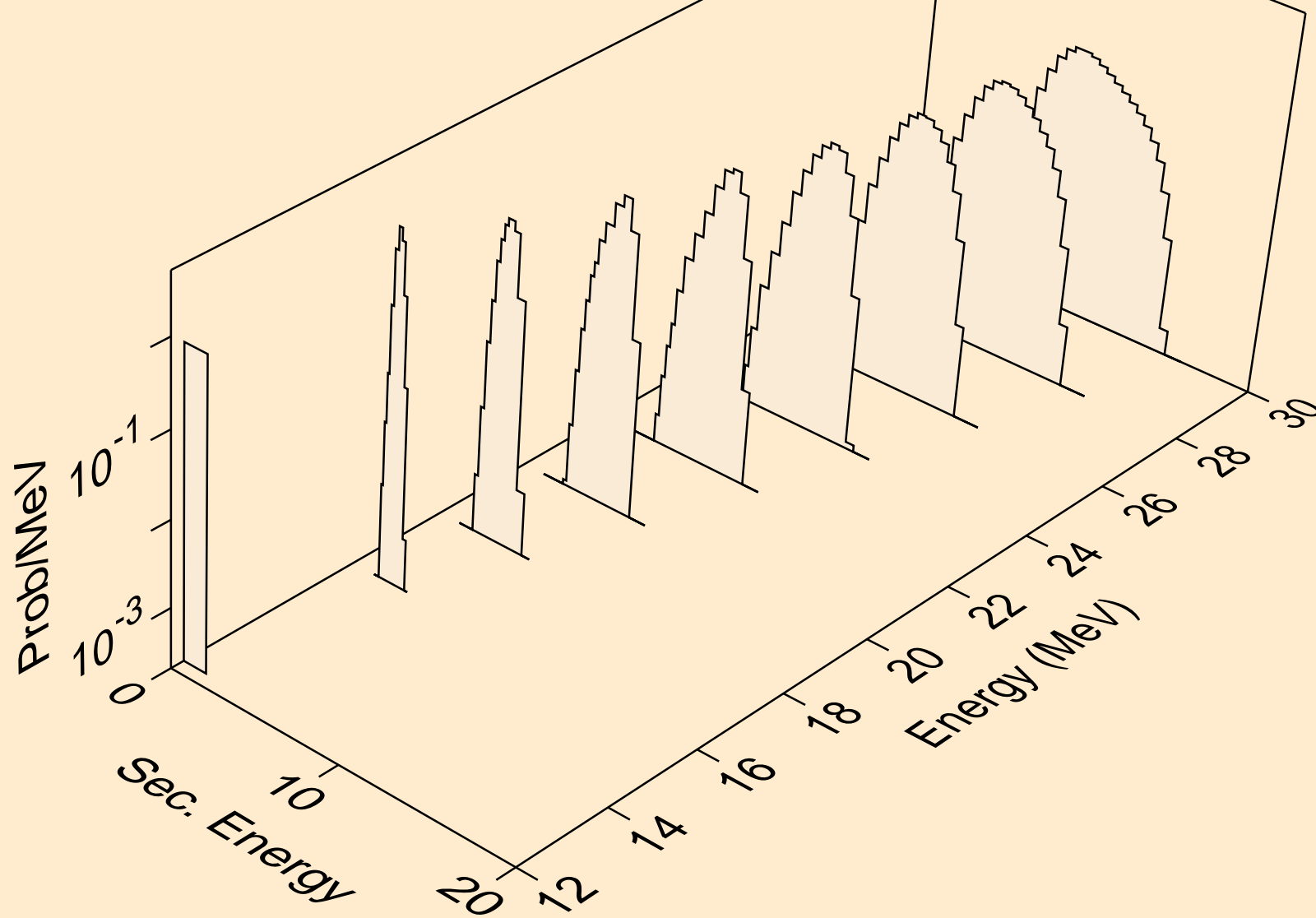
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alphas from (n,3n)a



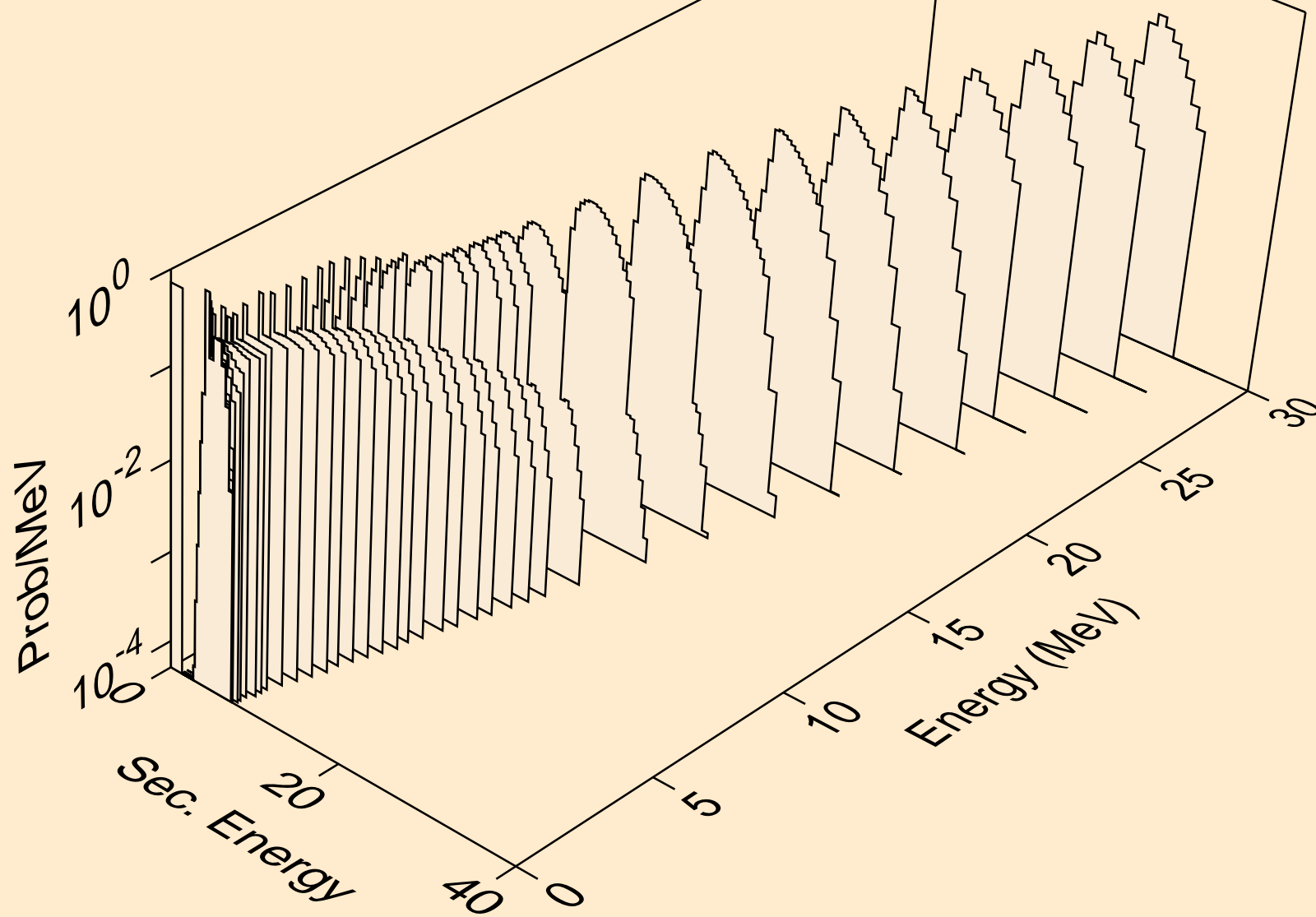
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alphas from (n,n\*)2a



ZN063 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,npa)

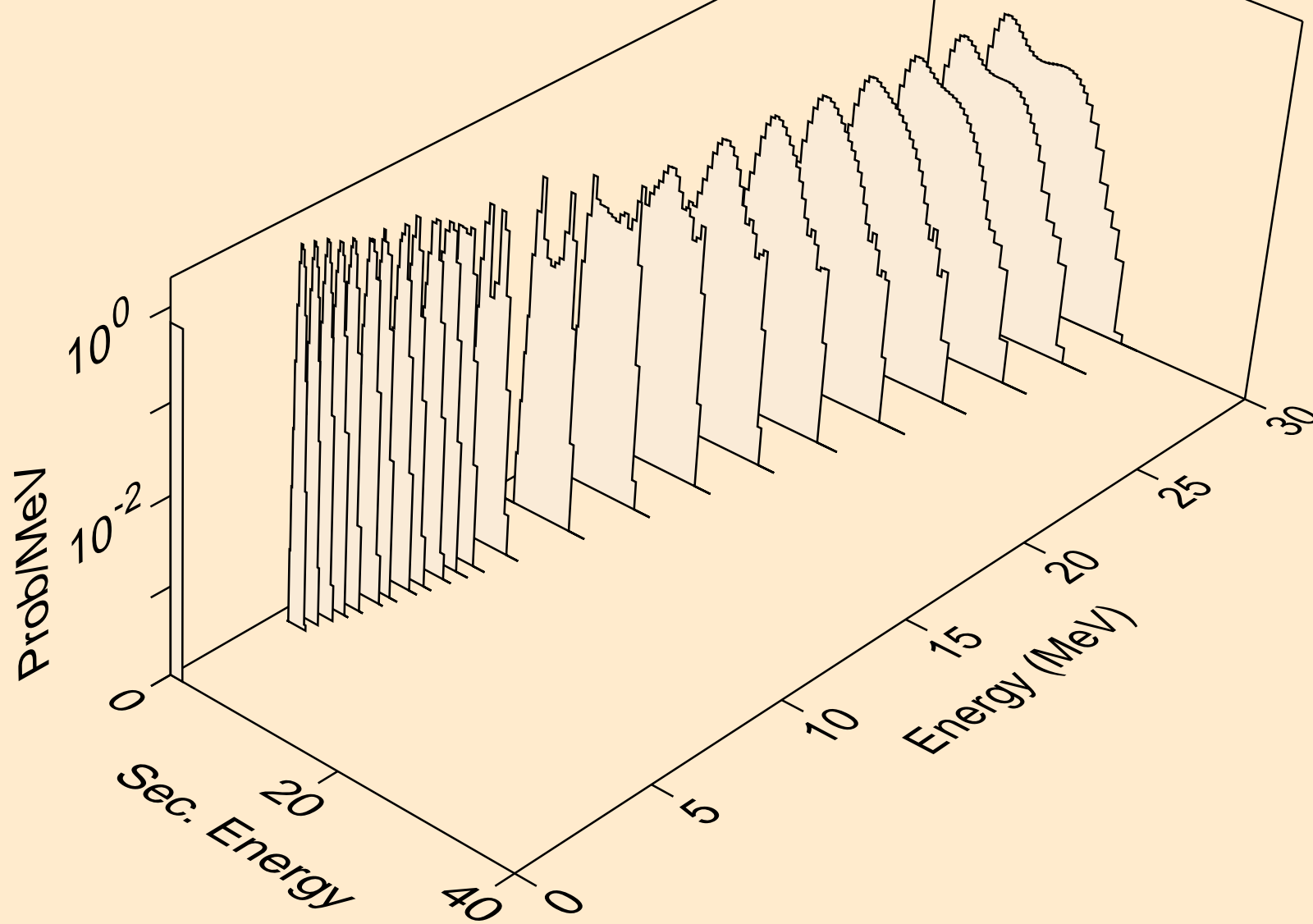


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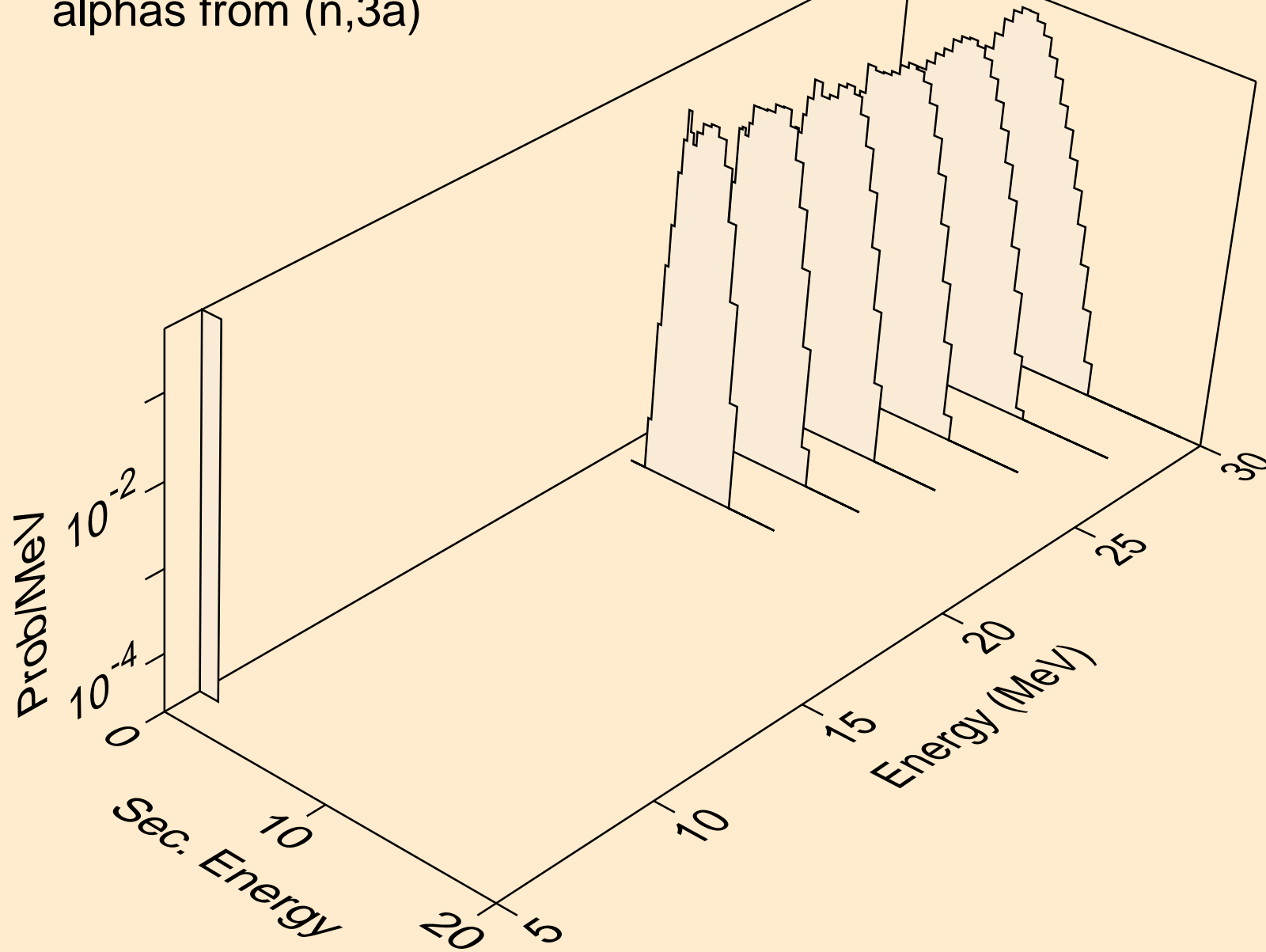




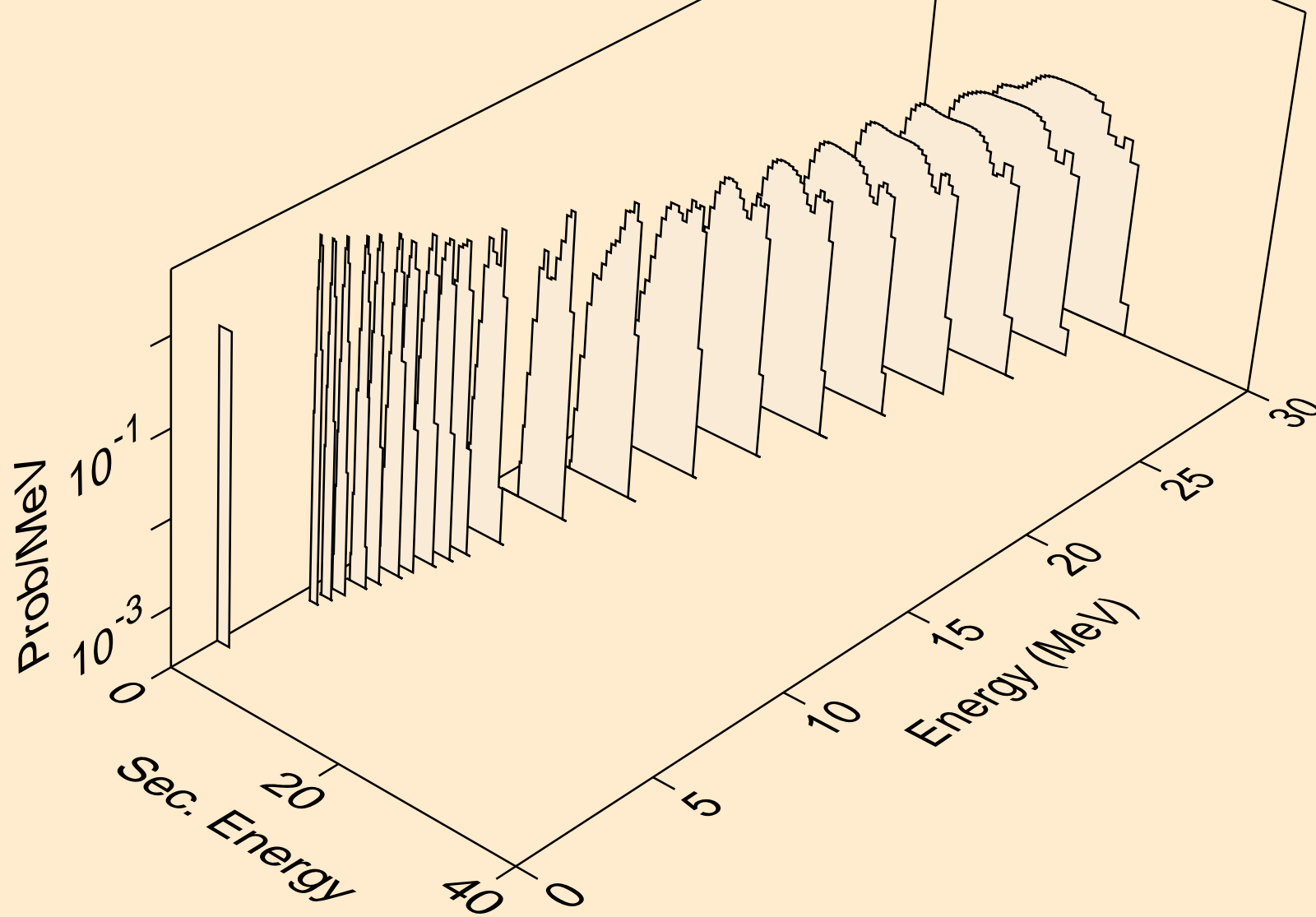
ZN063 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,2a)



ZN063 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,3a)



ZN063 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,pa)



ZN063 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,da)

