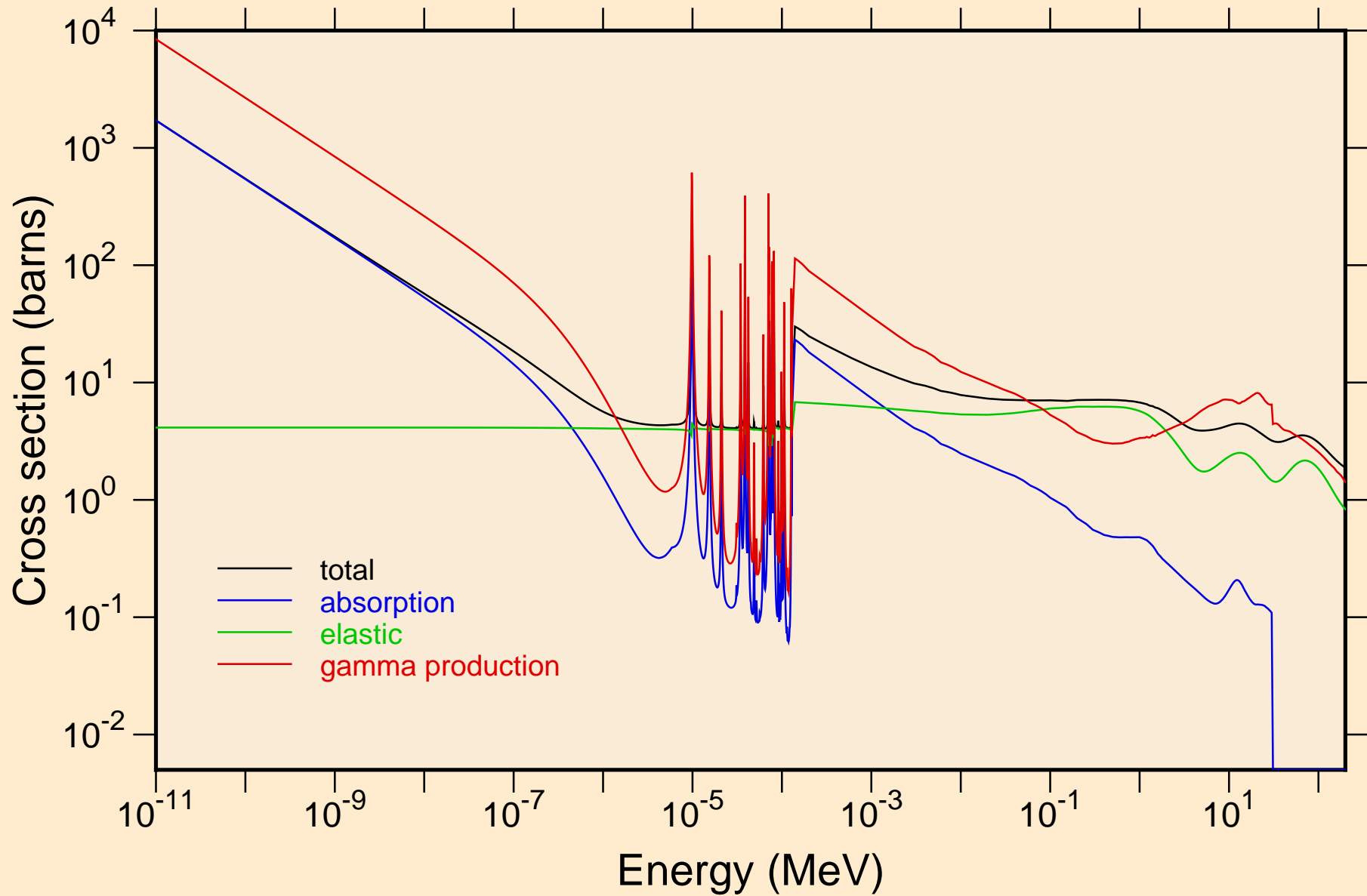
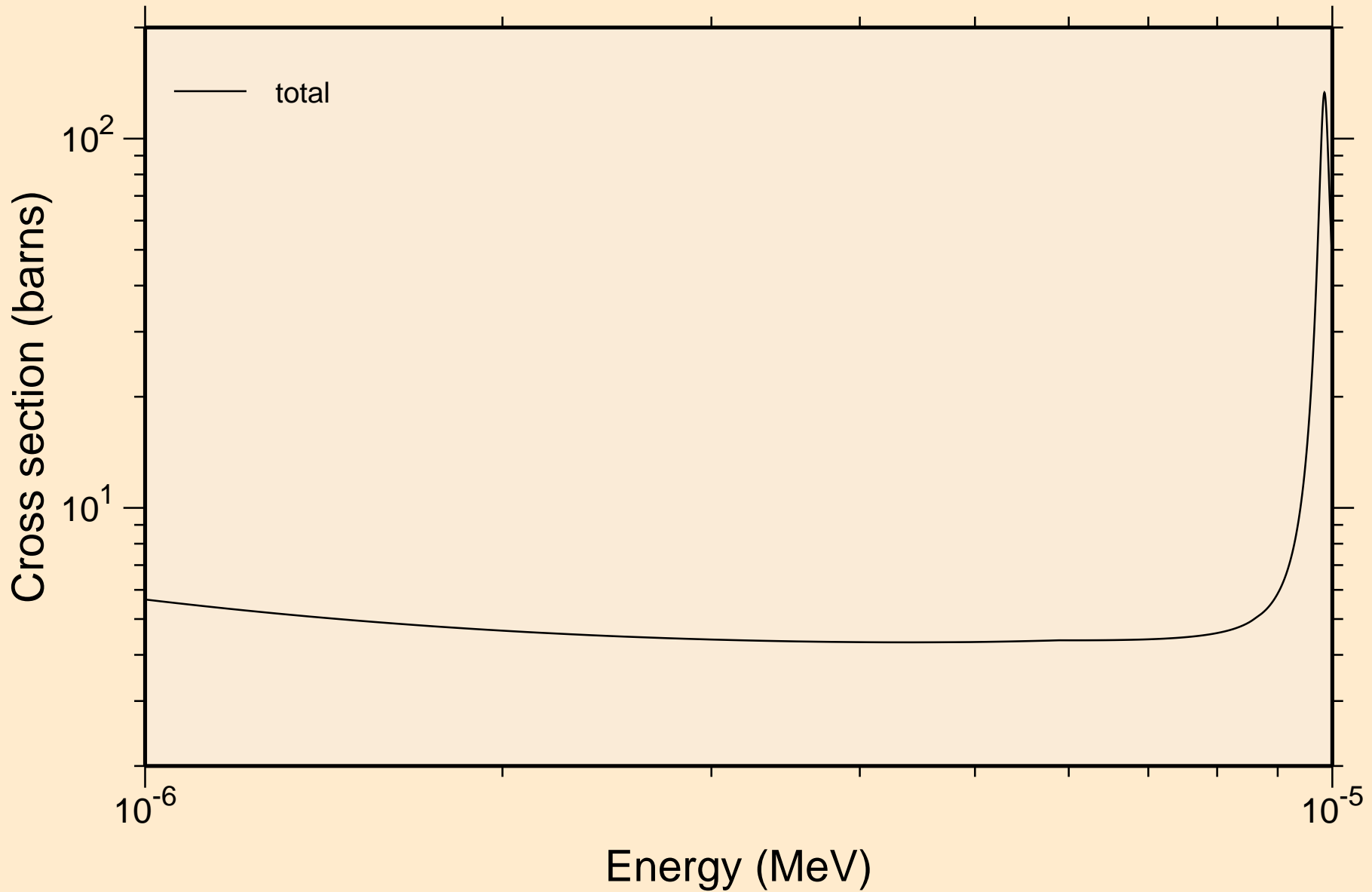


# SN111 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

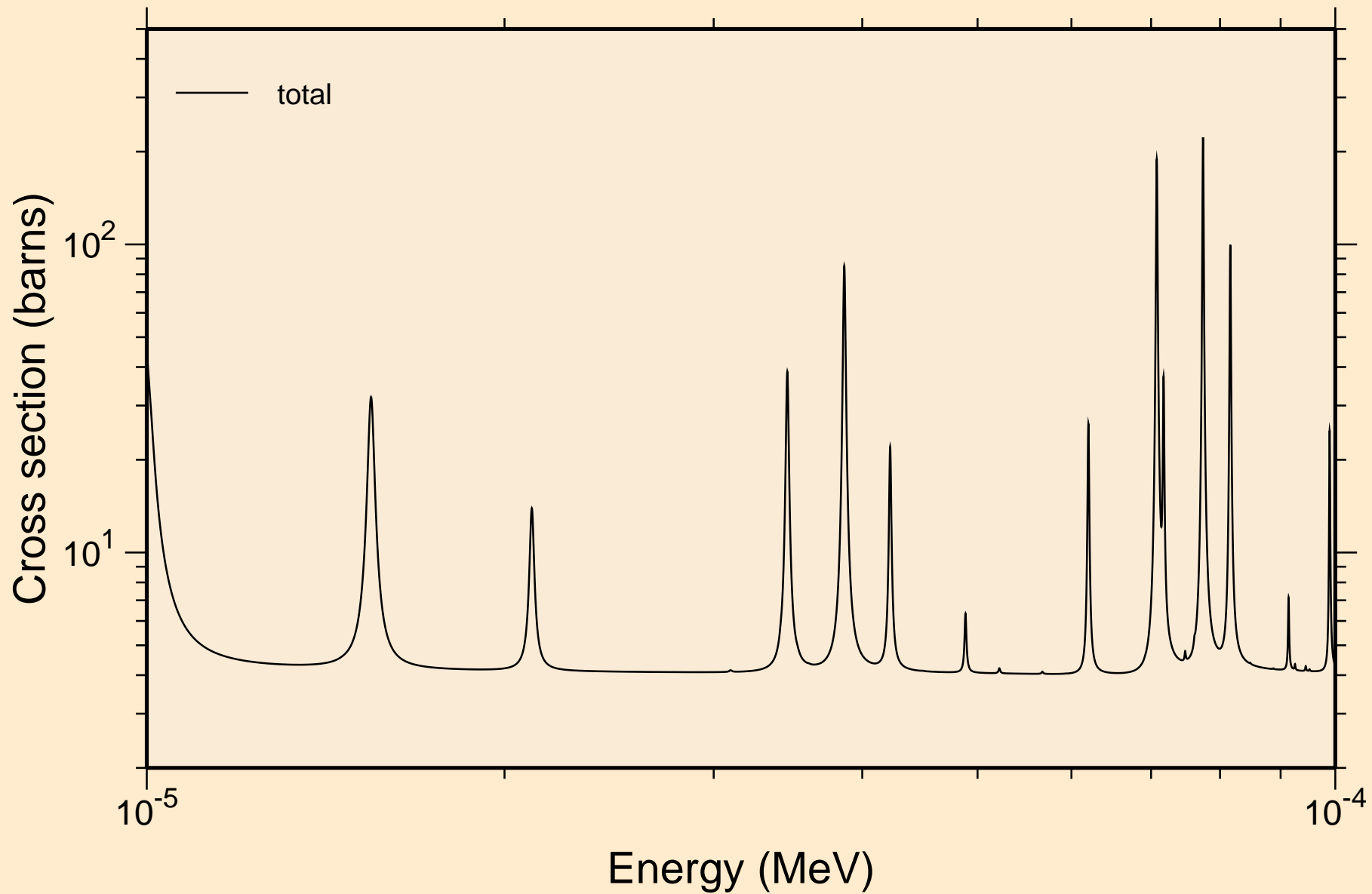
## Principal cross sections



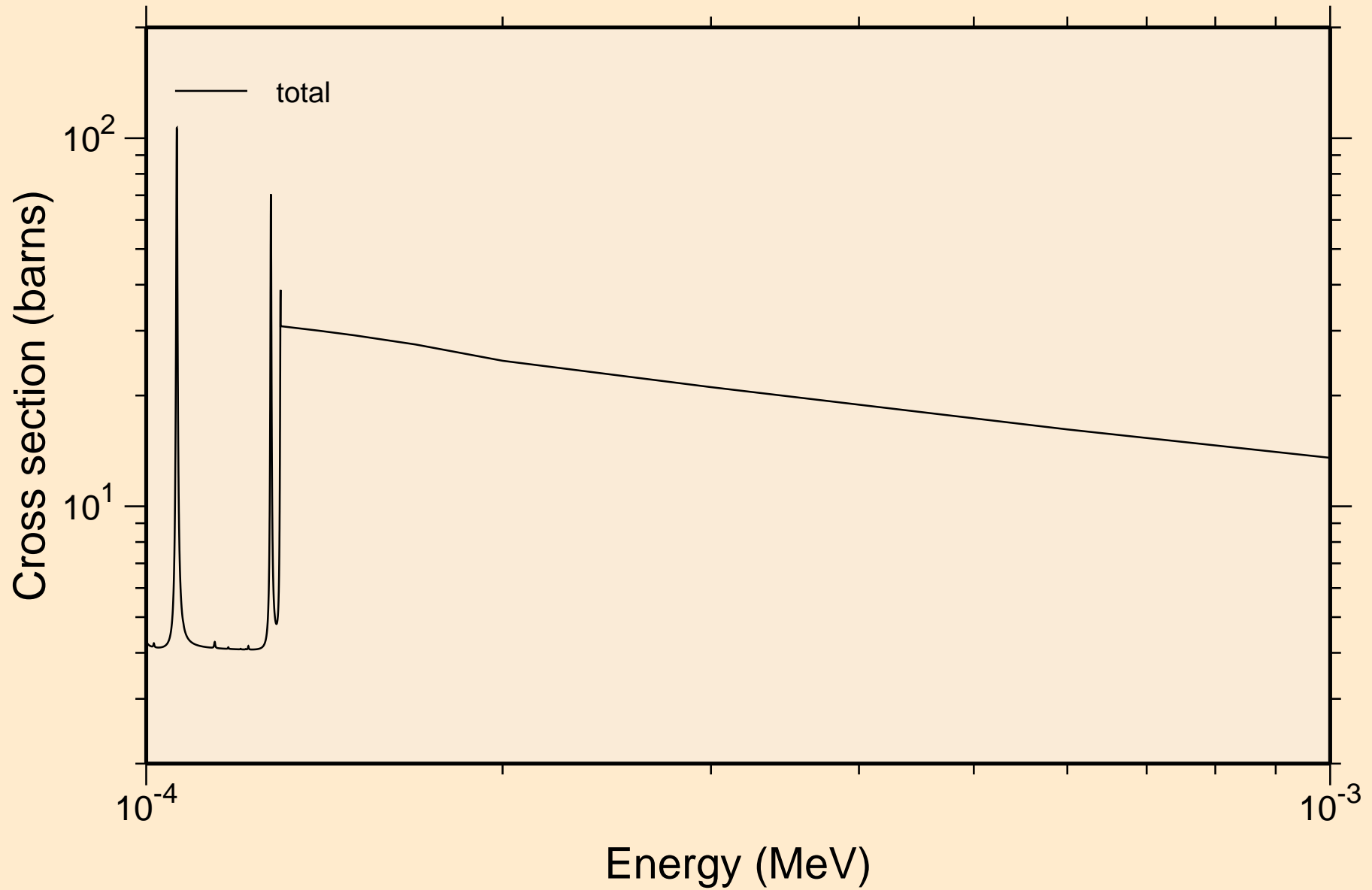
SN111 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
resonance total cross section



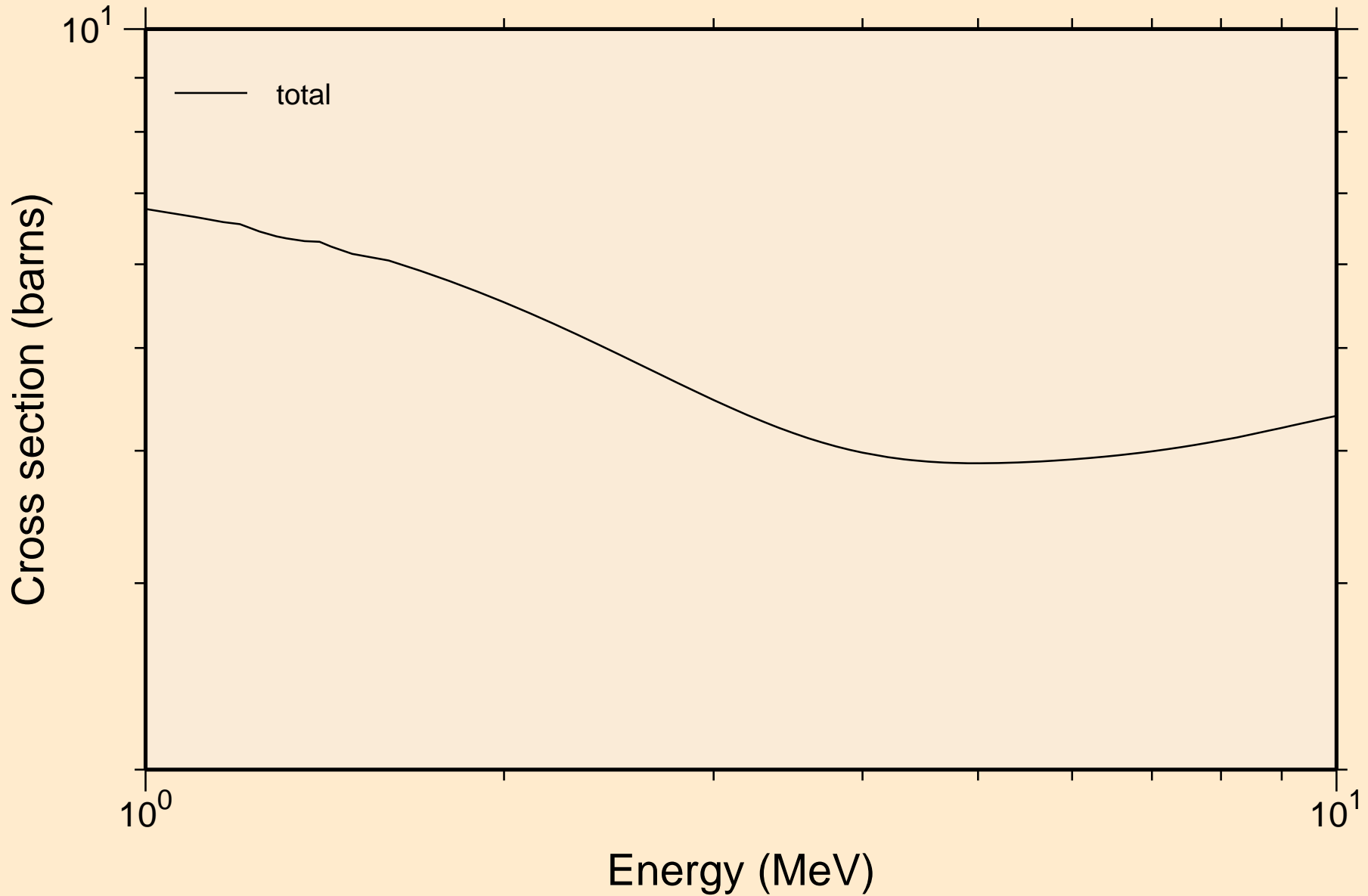
SN111 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
resonance total cross section



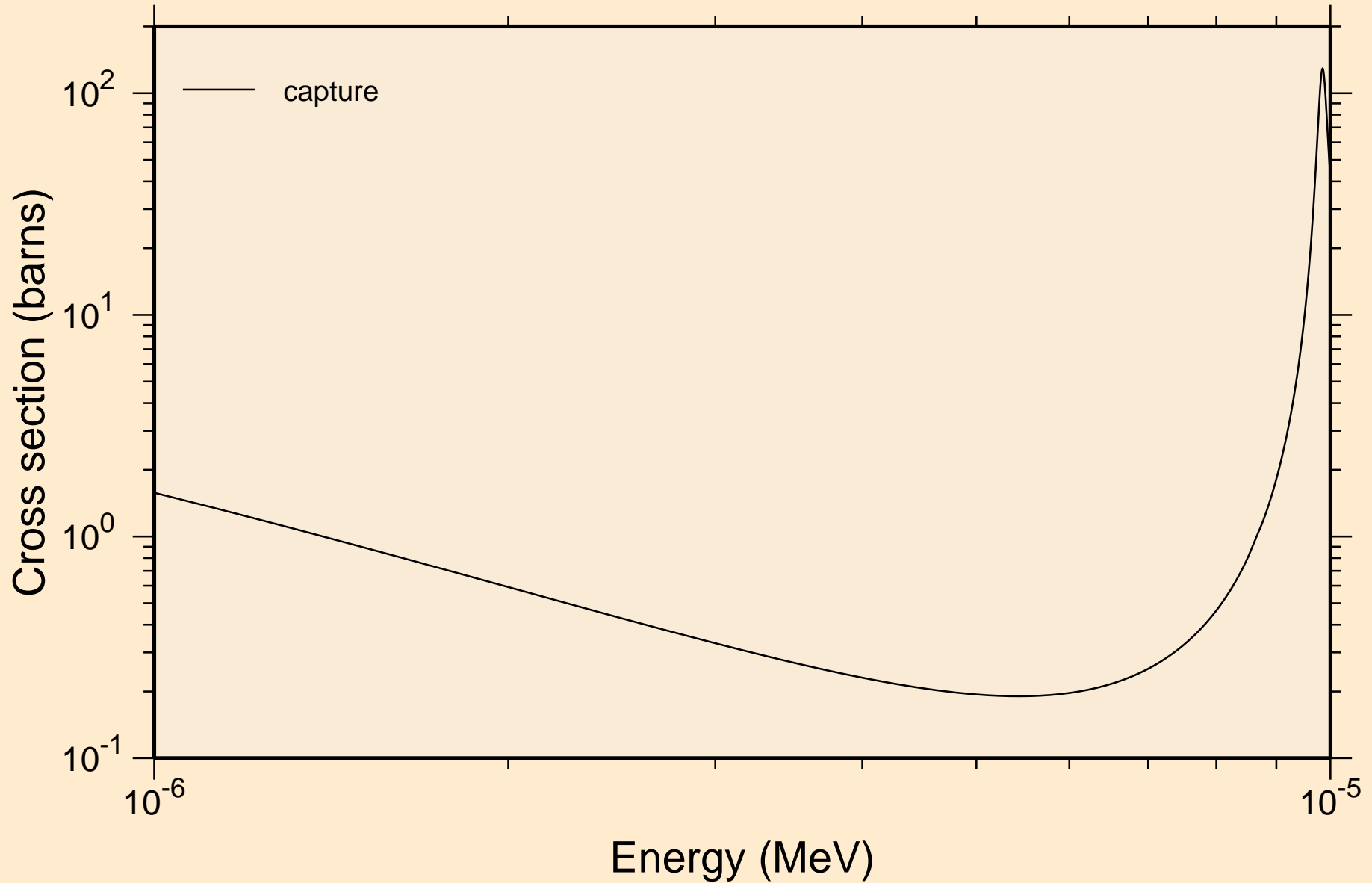
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resonance total cross section



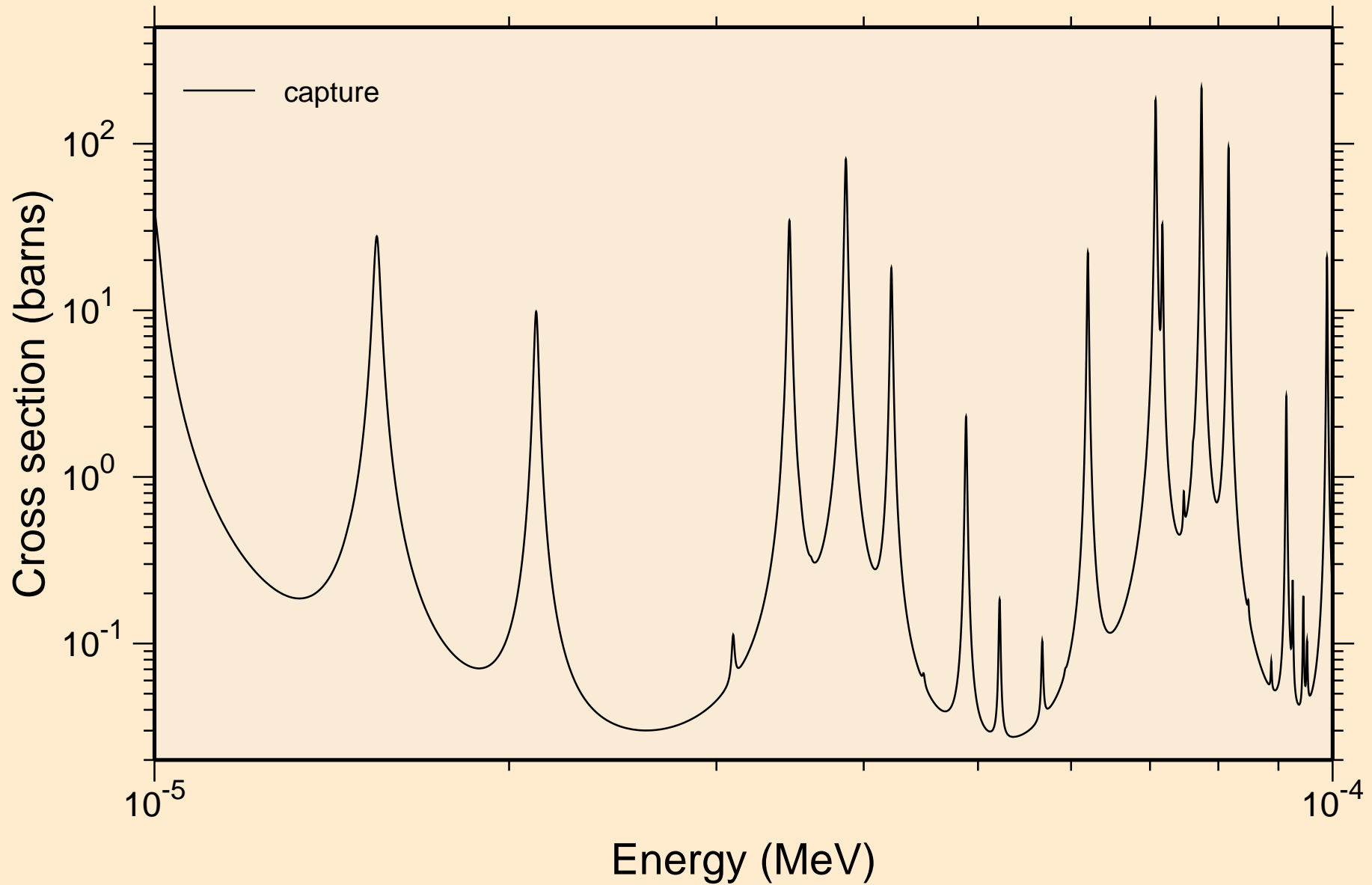
SN111 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
resonance total cross section



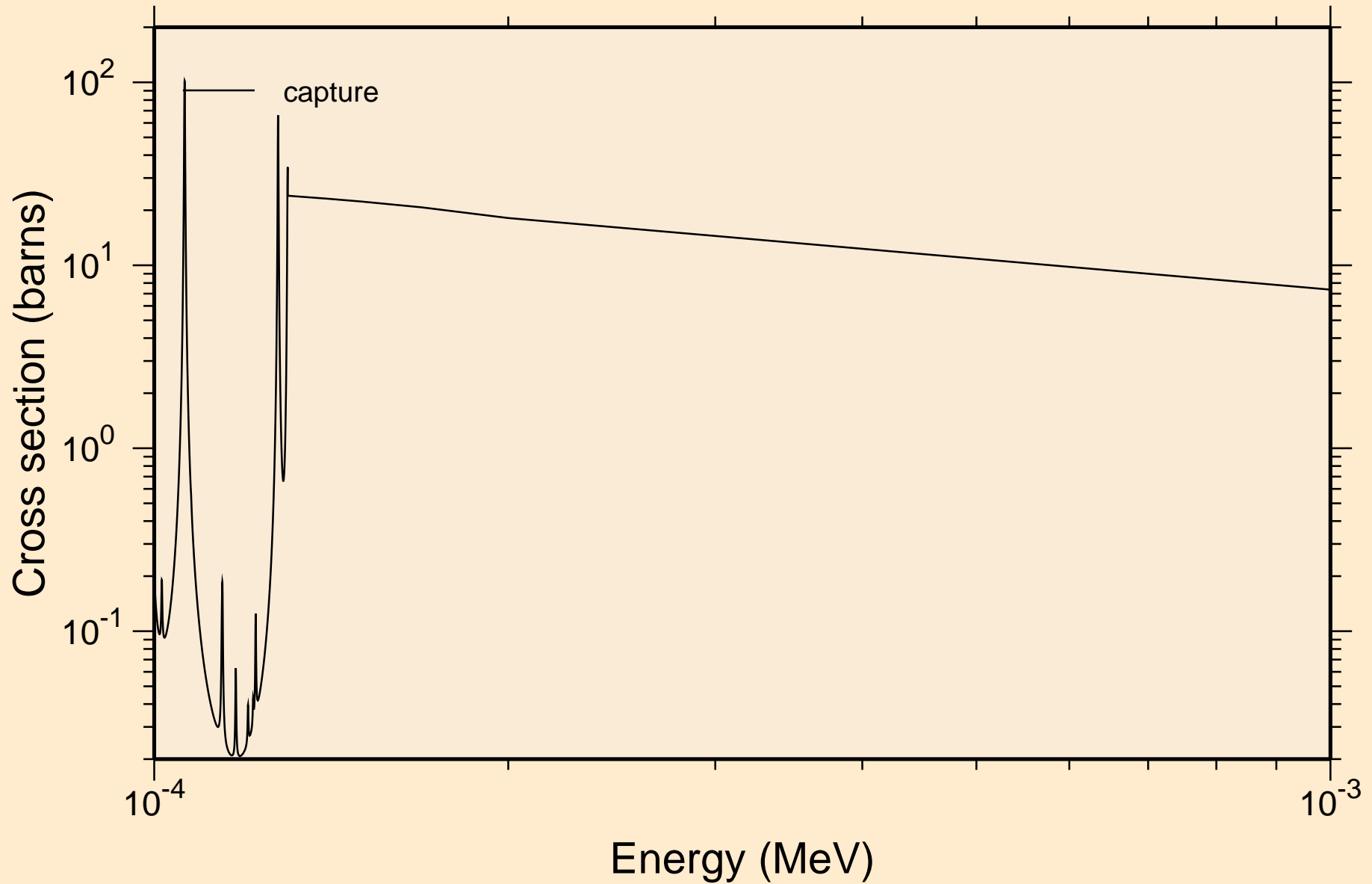
SN111 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
resonance absorption cross sections



SN111 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
resonance absorption cross sections

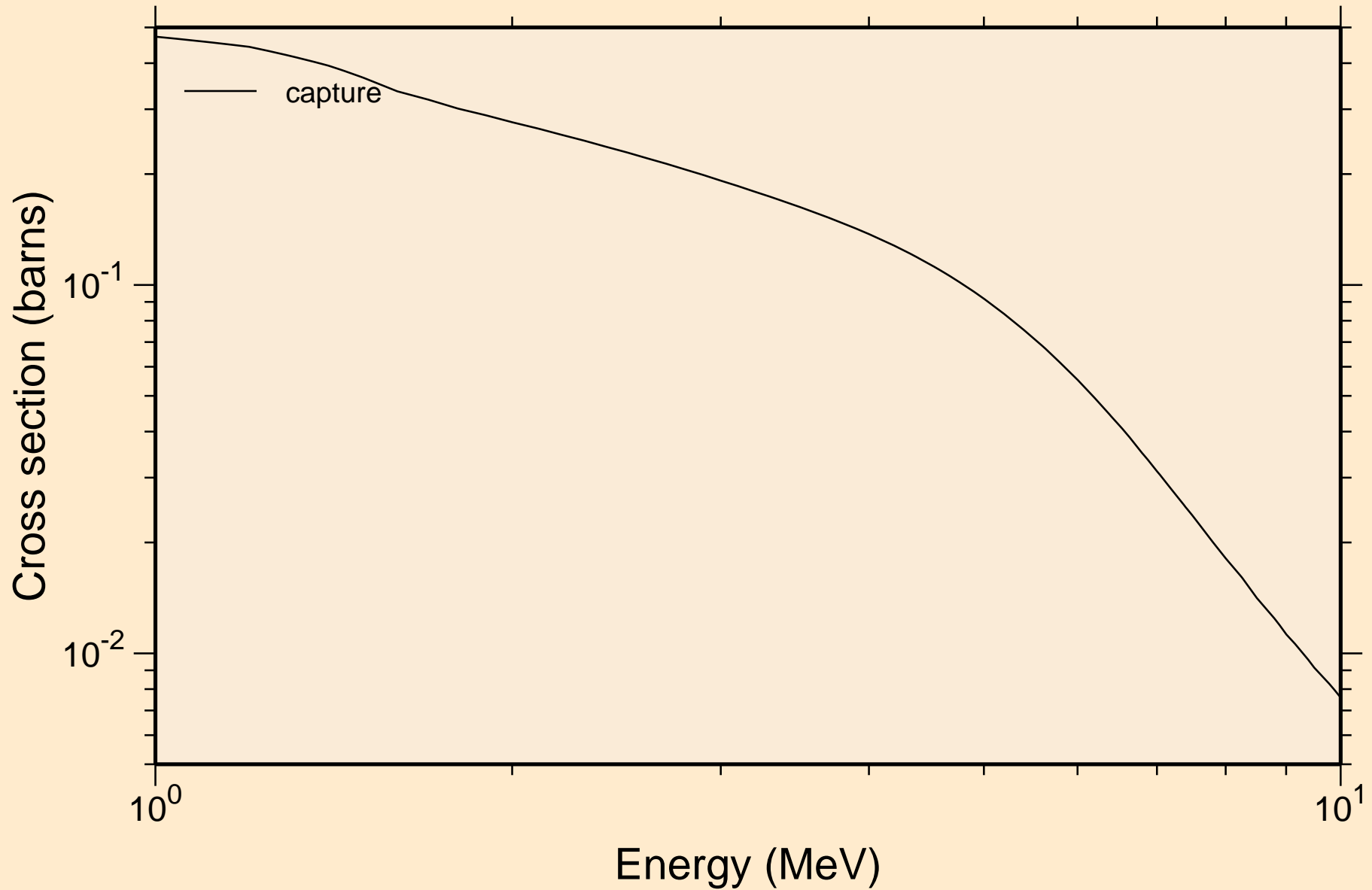


SN111 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
resonance absorption cross sections



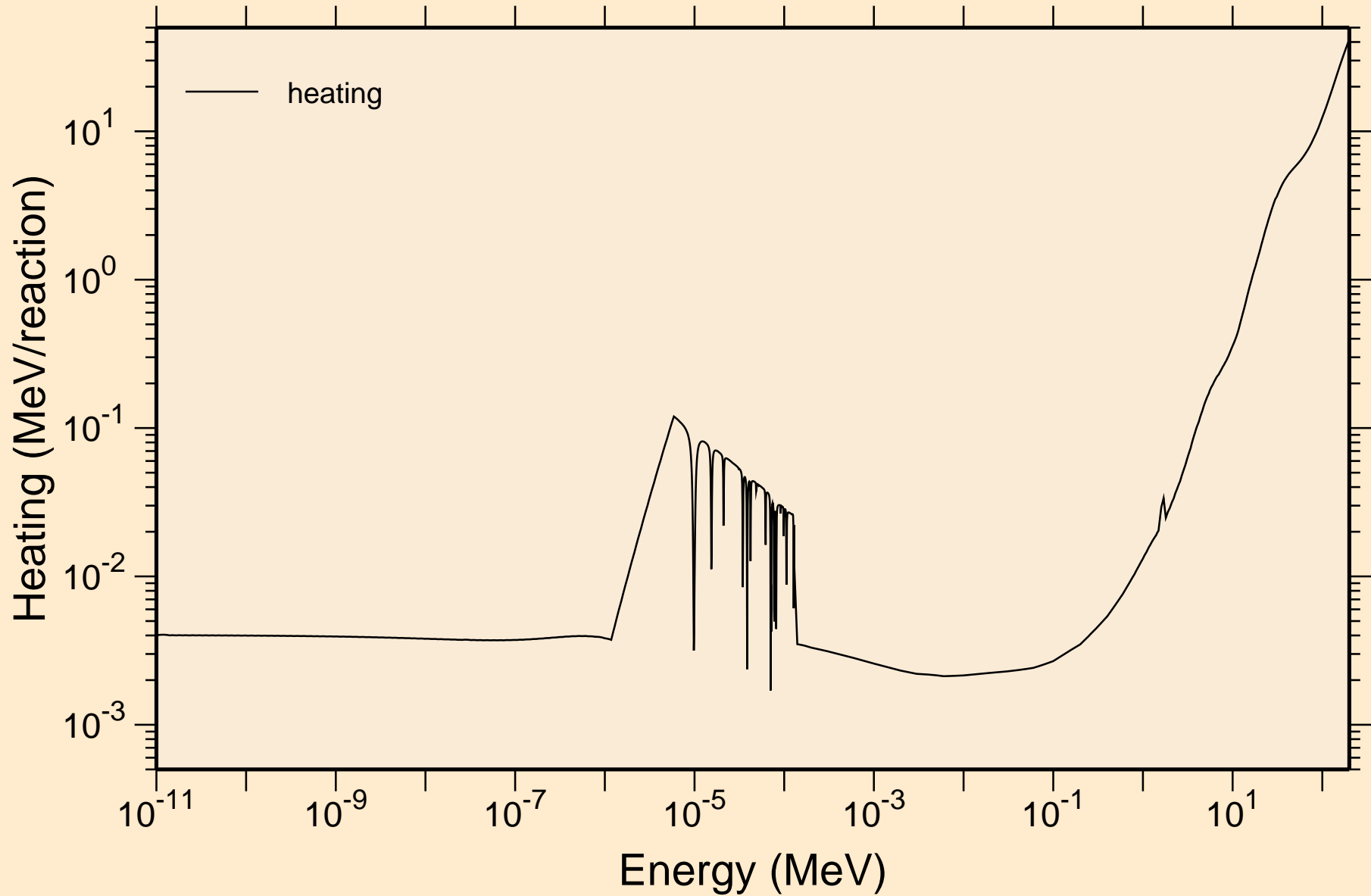


SN111 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
resonance absorption cross sections



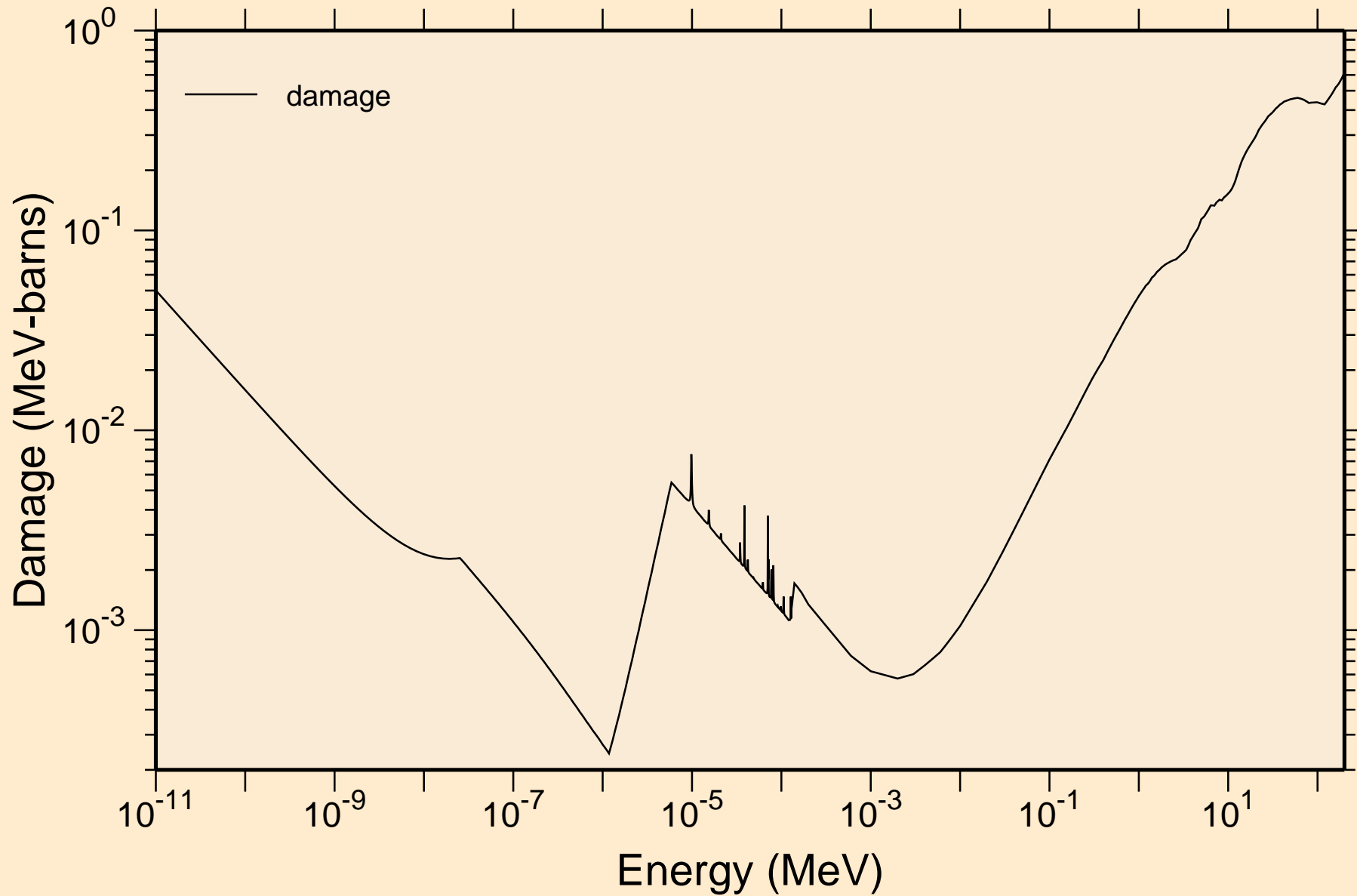
# SN111 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

## Heating



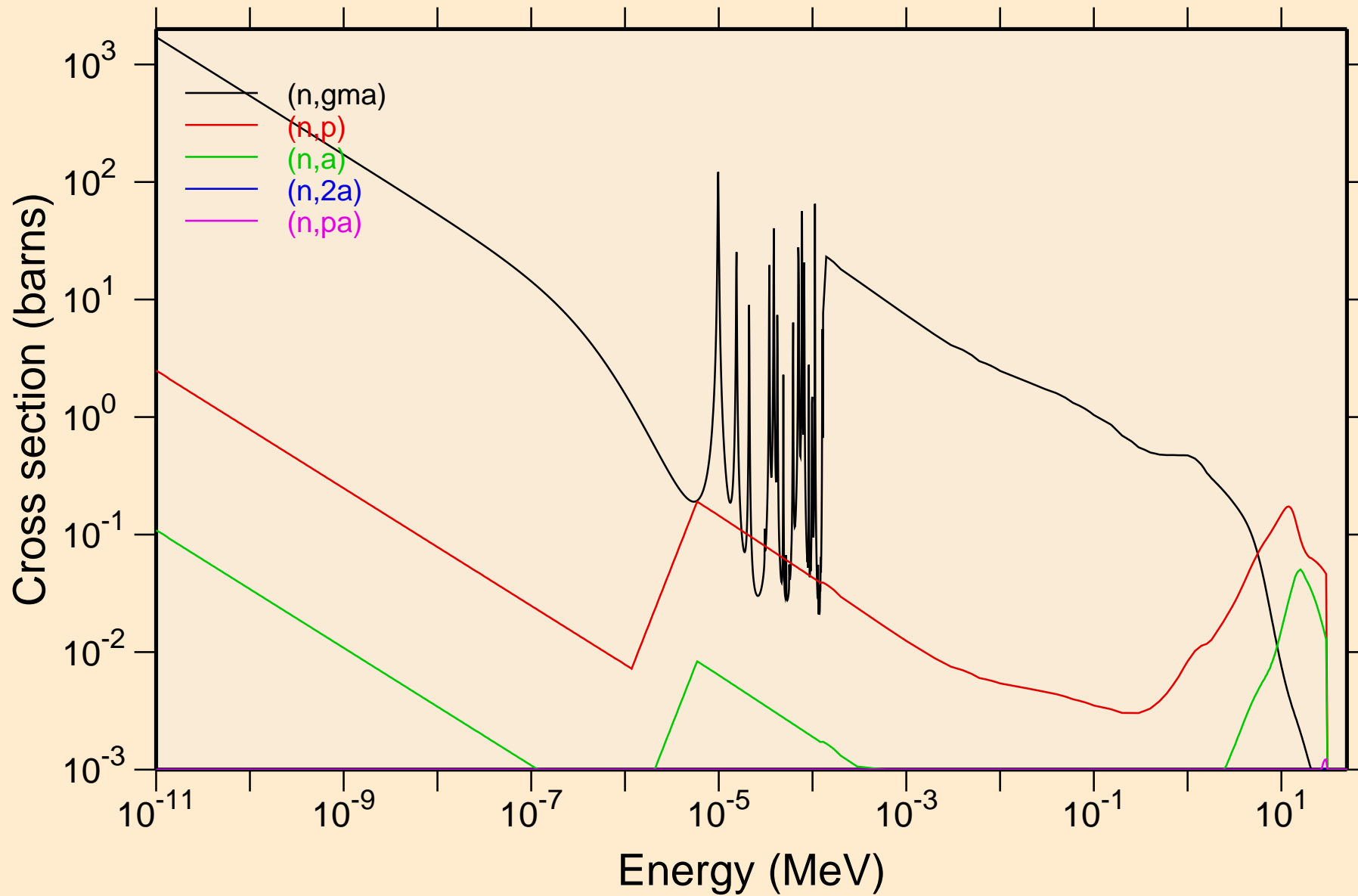
# SN111 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

## Damage



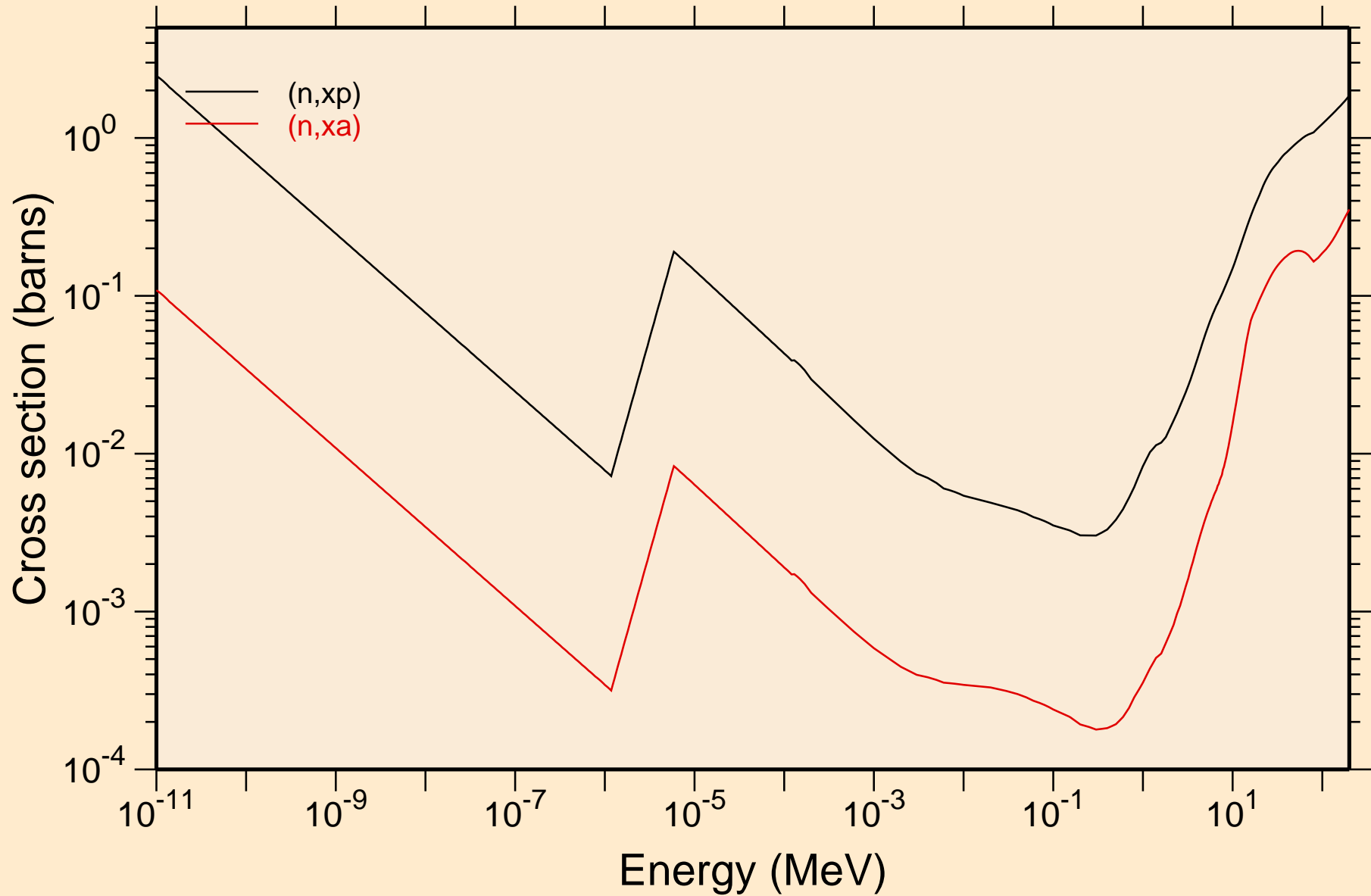
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## Non-threshold reactions



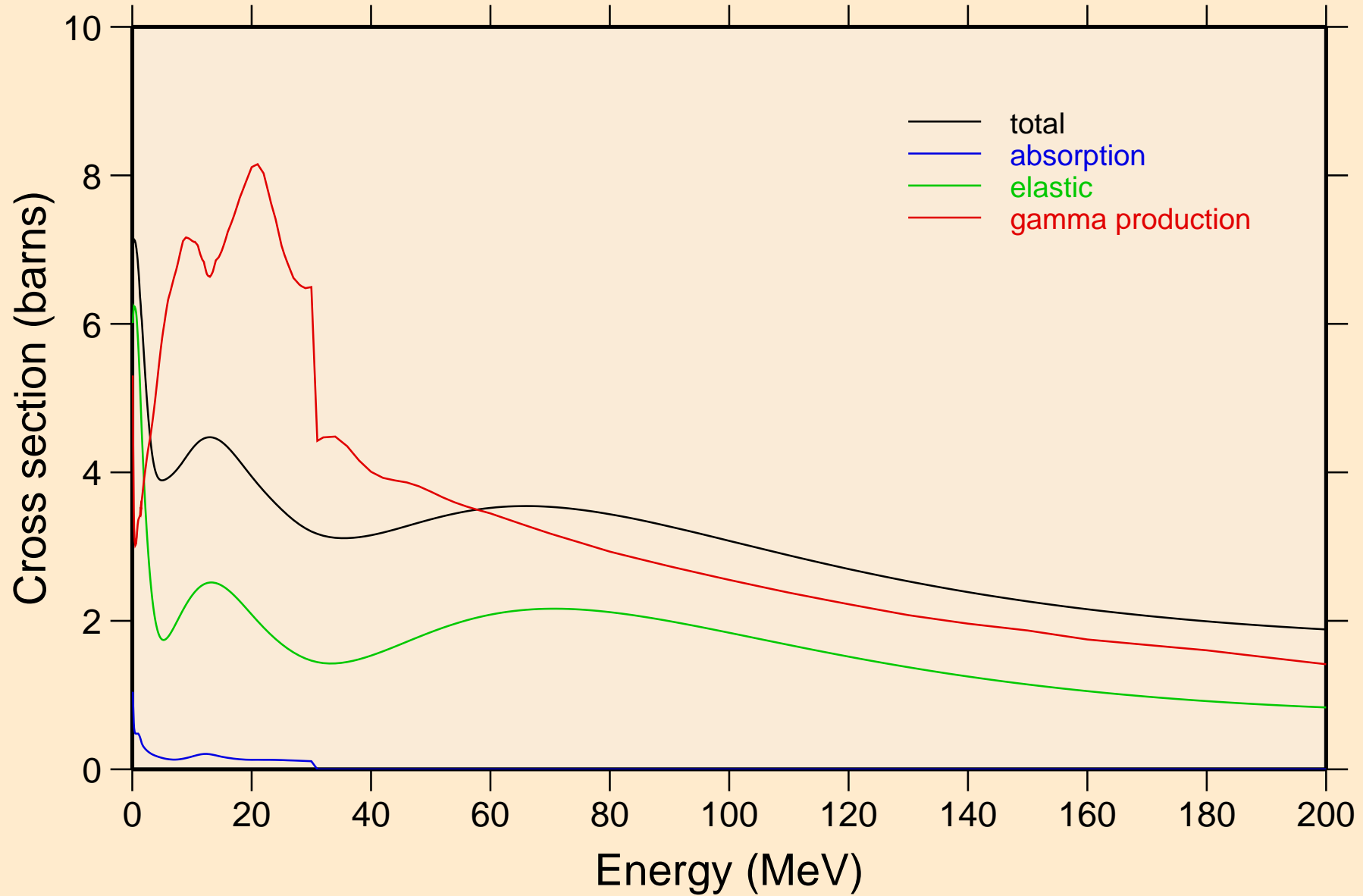
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## Non-threshold reactions



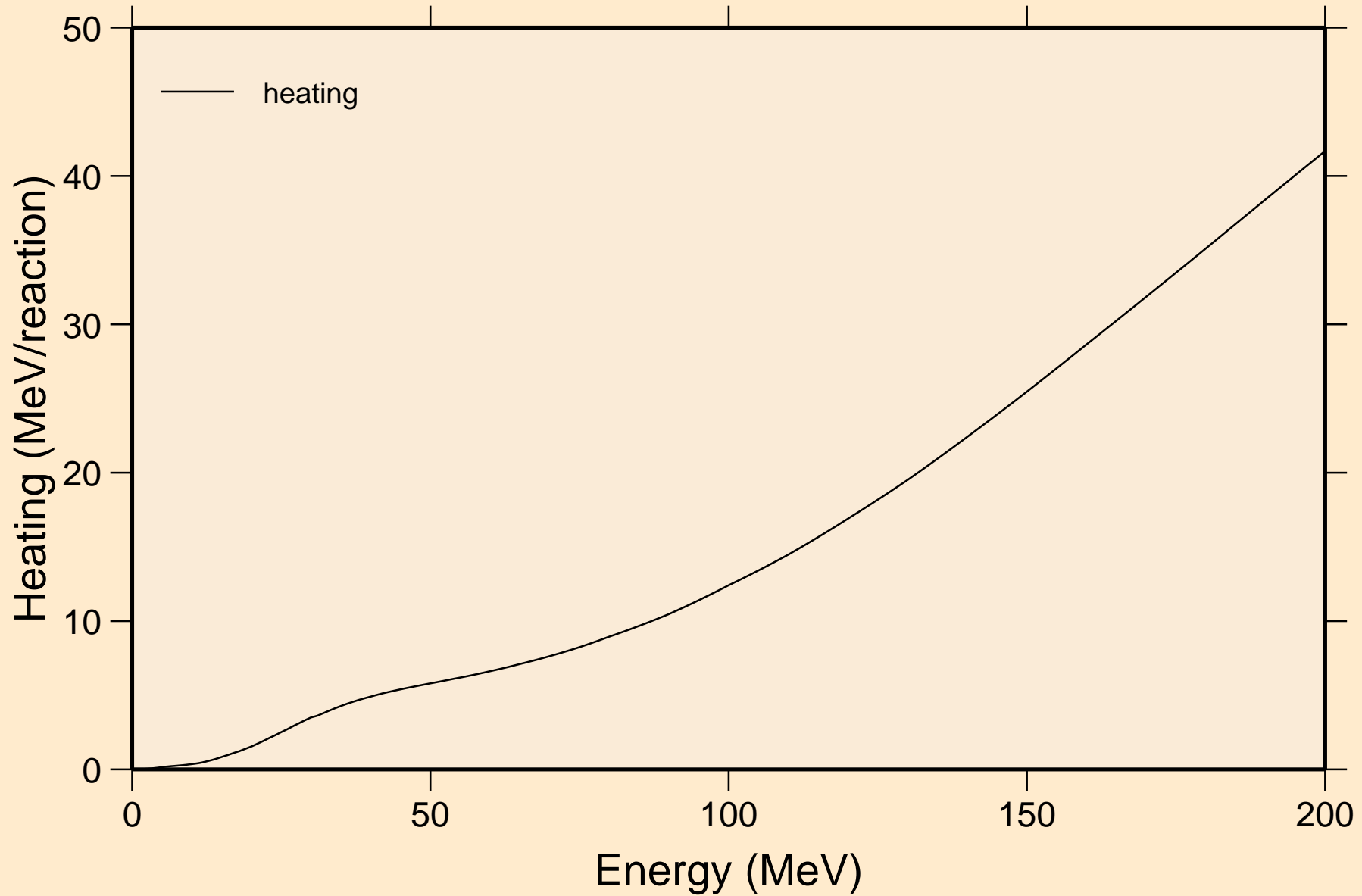
# SN111 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

## Principal cross sections



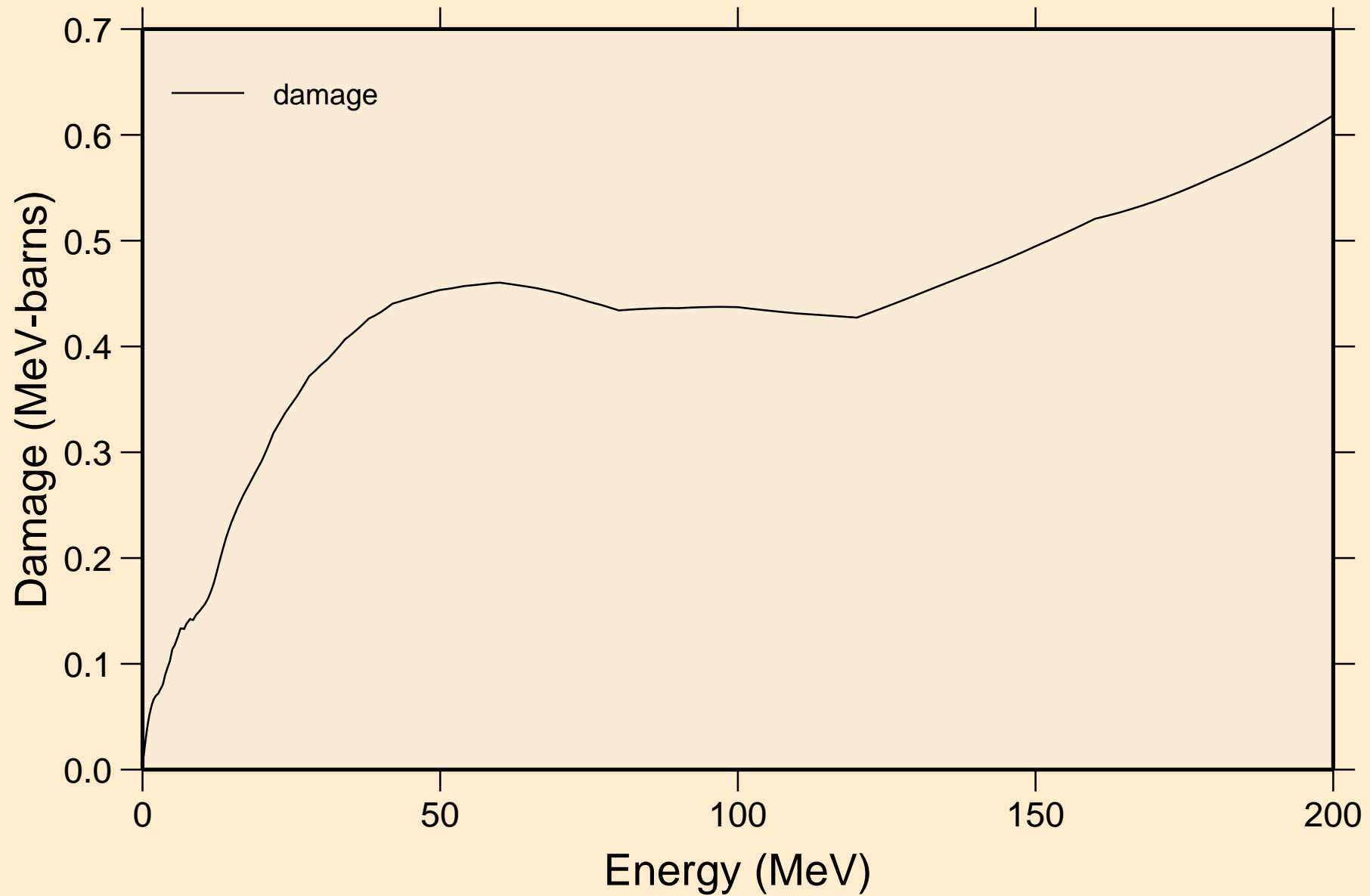
# SN111 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

## Heating



# SN111 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

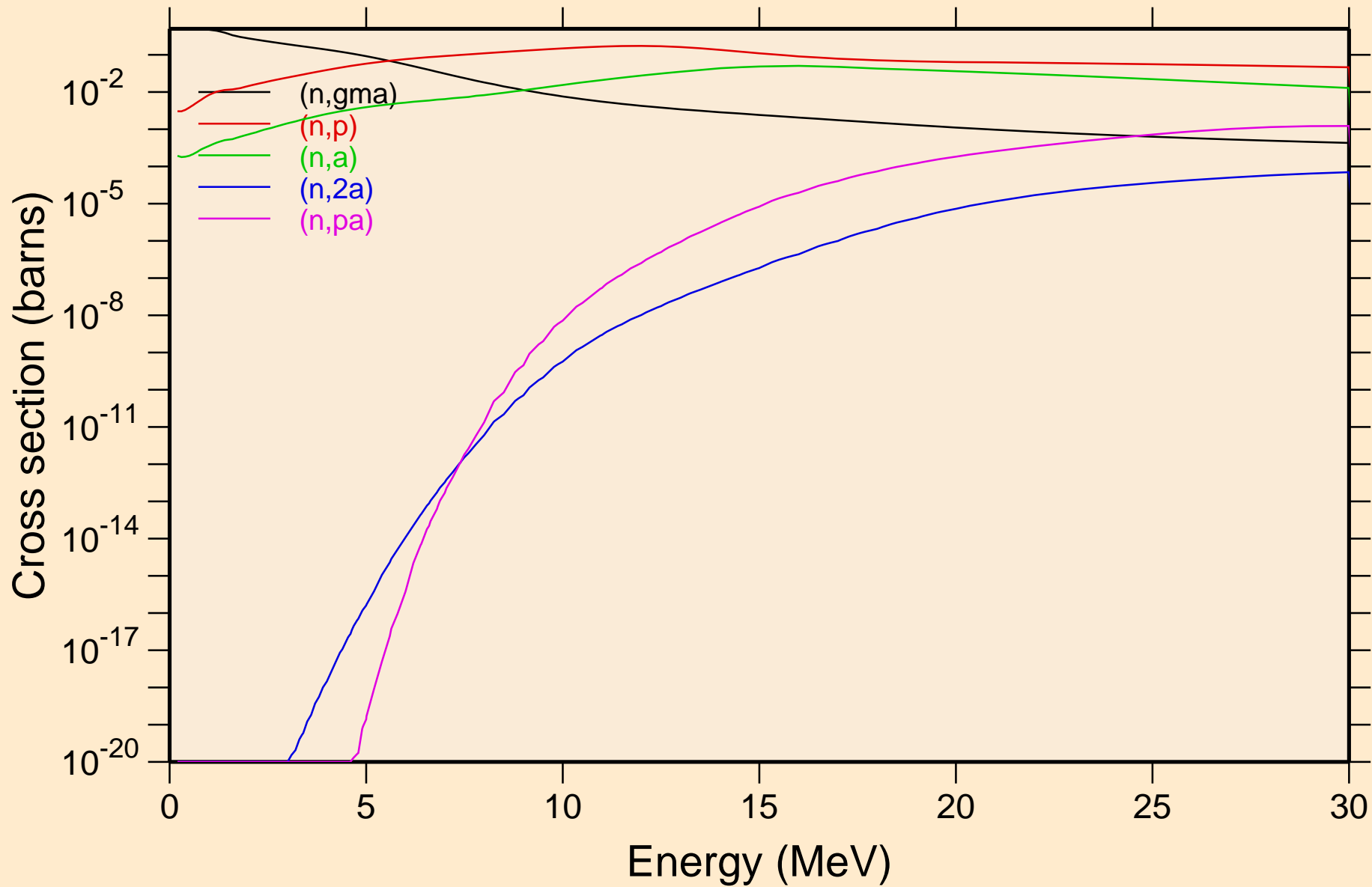
## Damage



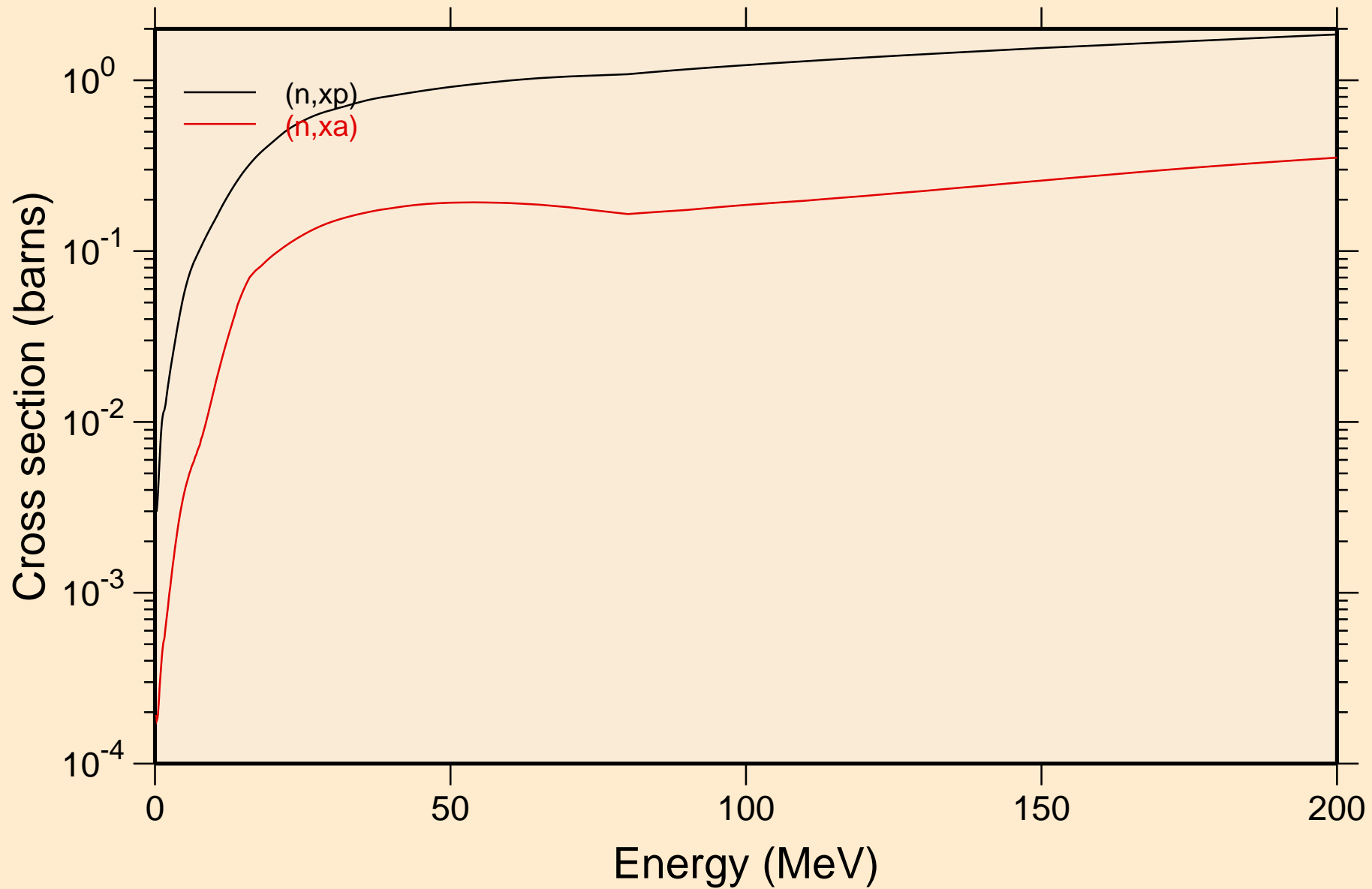


# SN111 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

## Non-threshold reactions

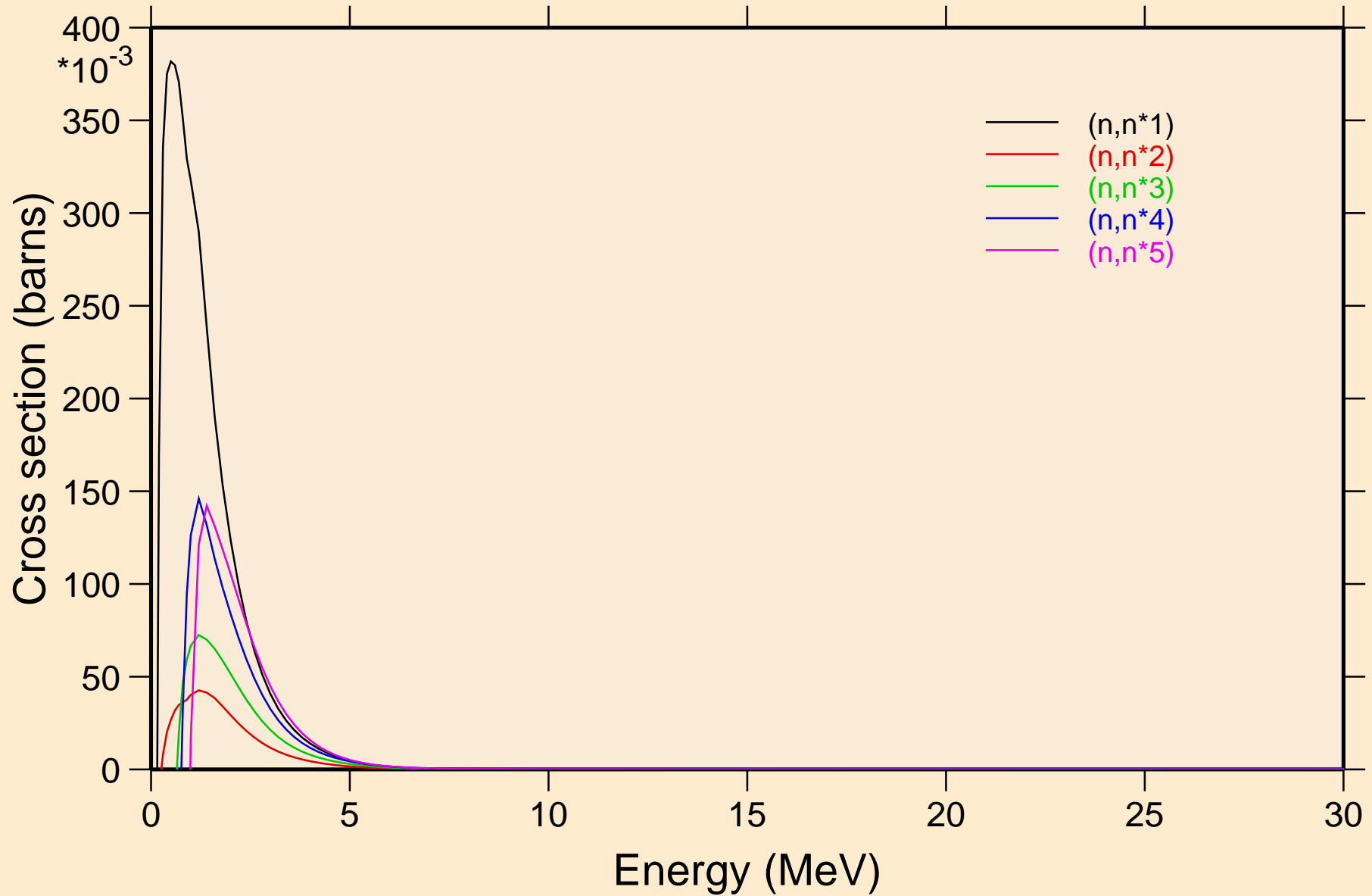


SN111 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Non-threshold reactions



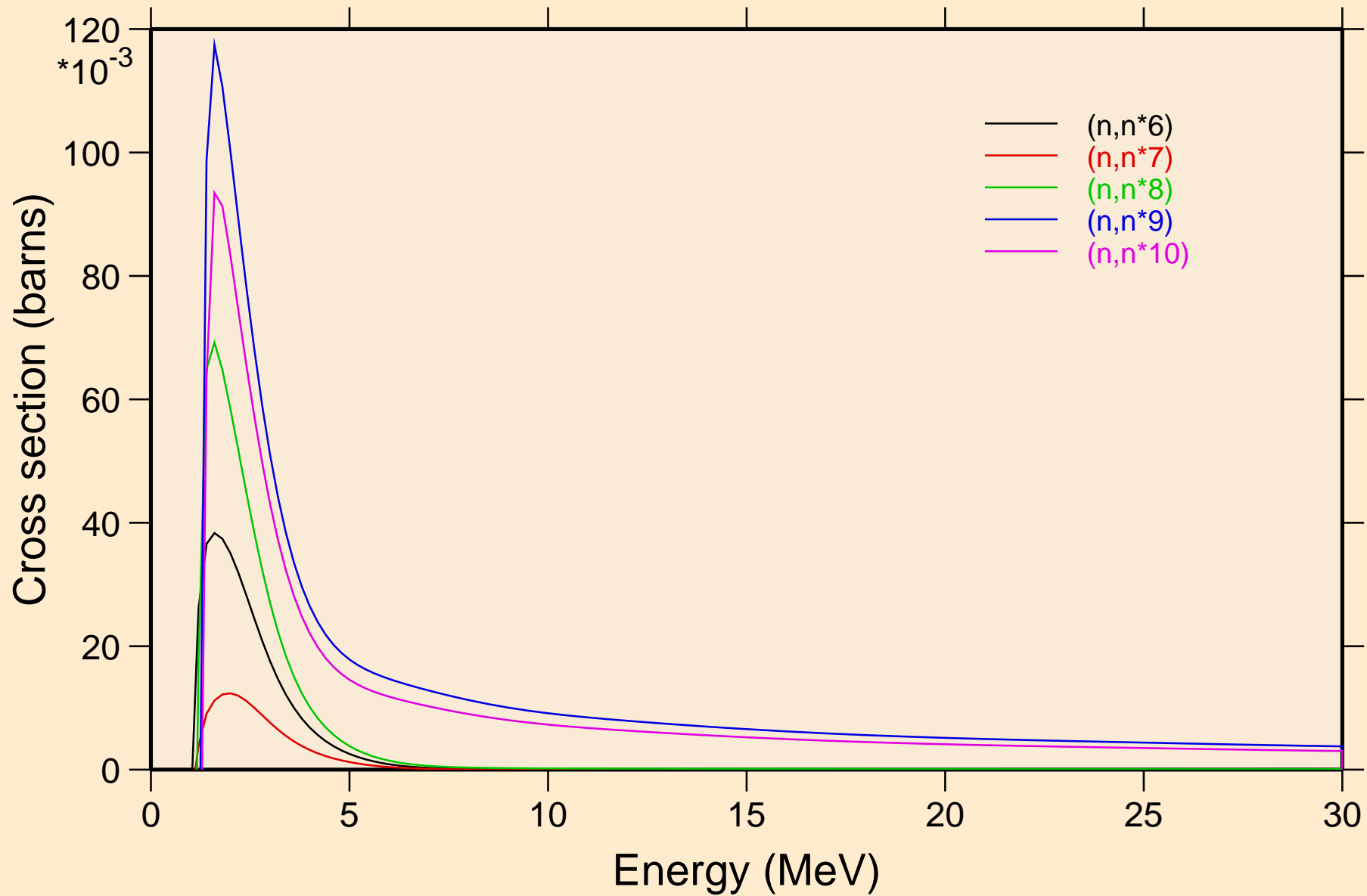
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## Inelastic levels



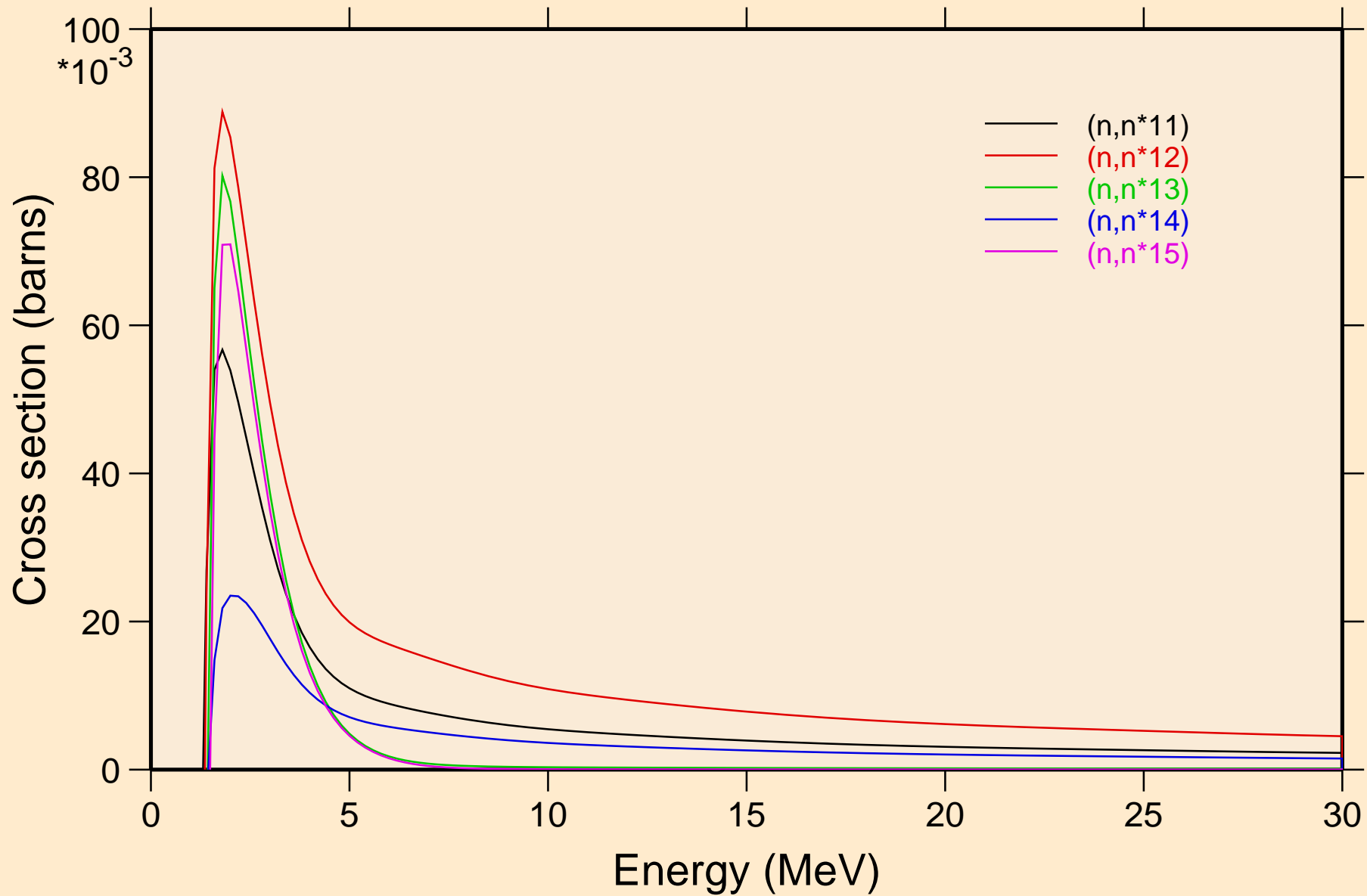
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## Inelastic levels



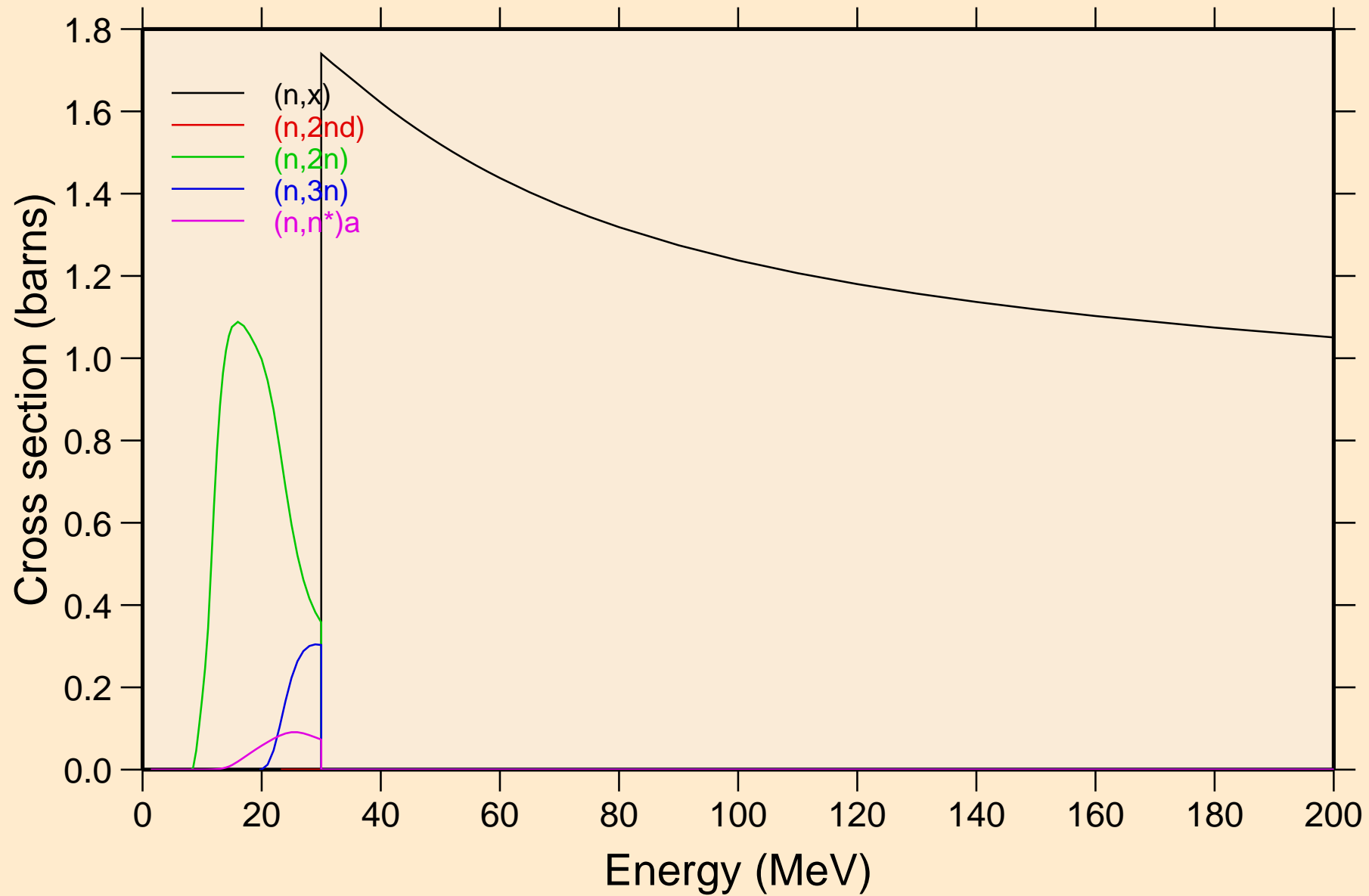
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## Inelastic levels



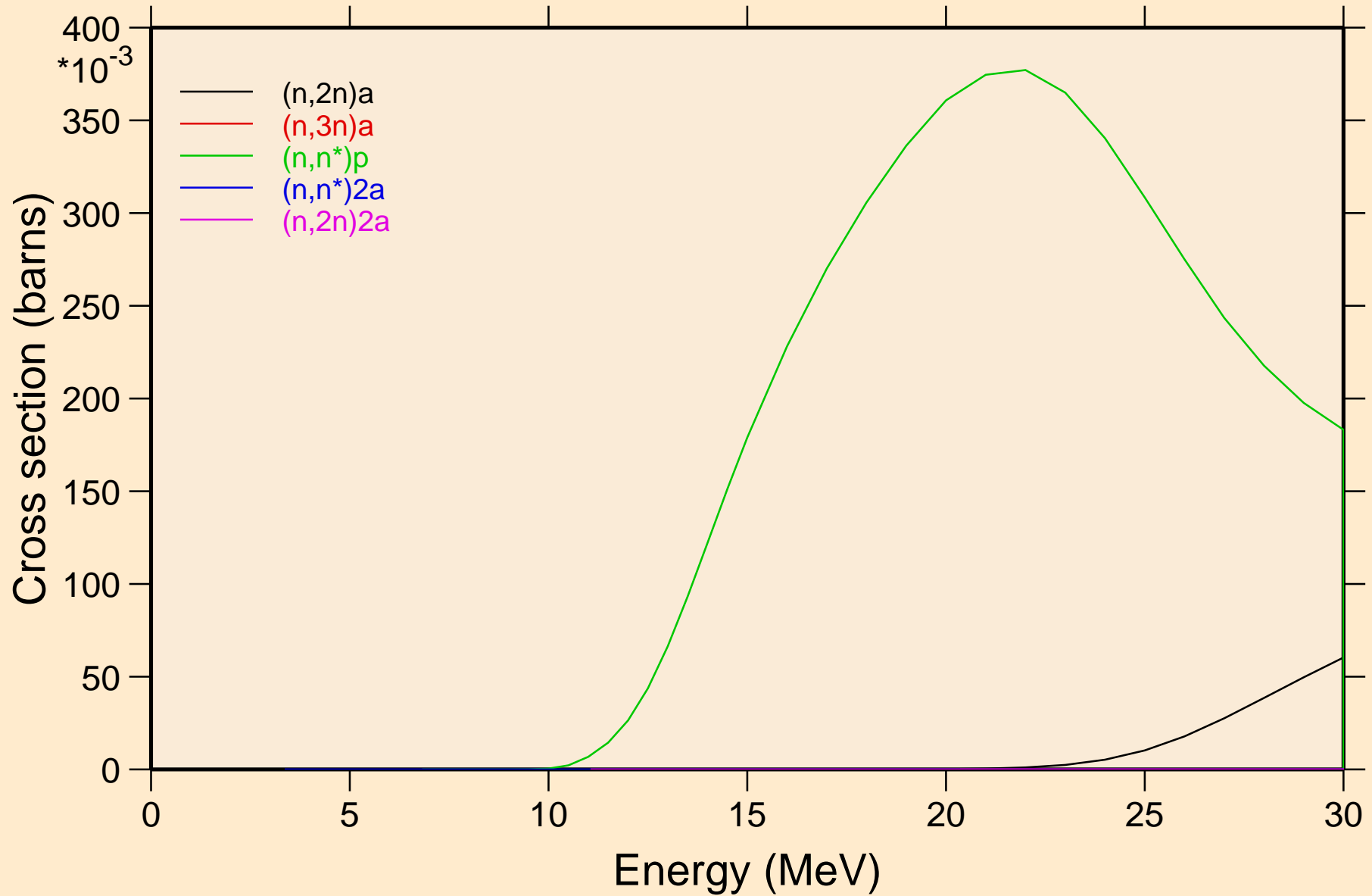
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## Threshold reactions



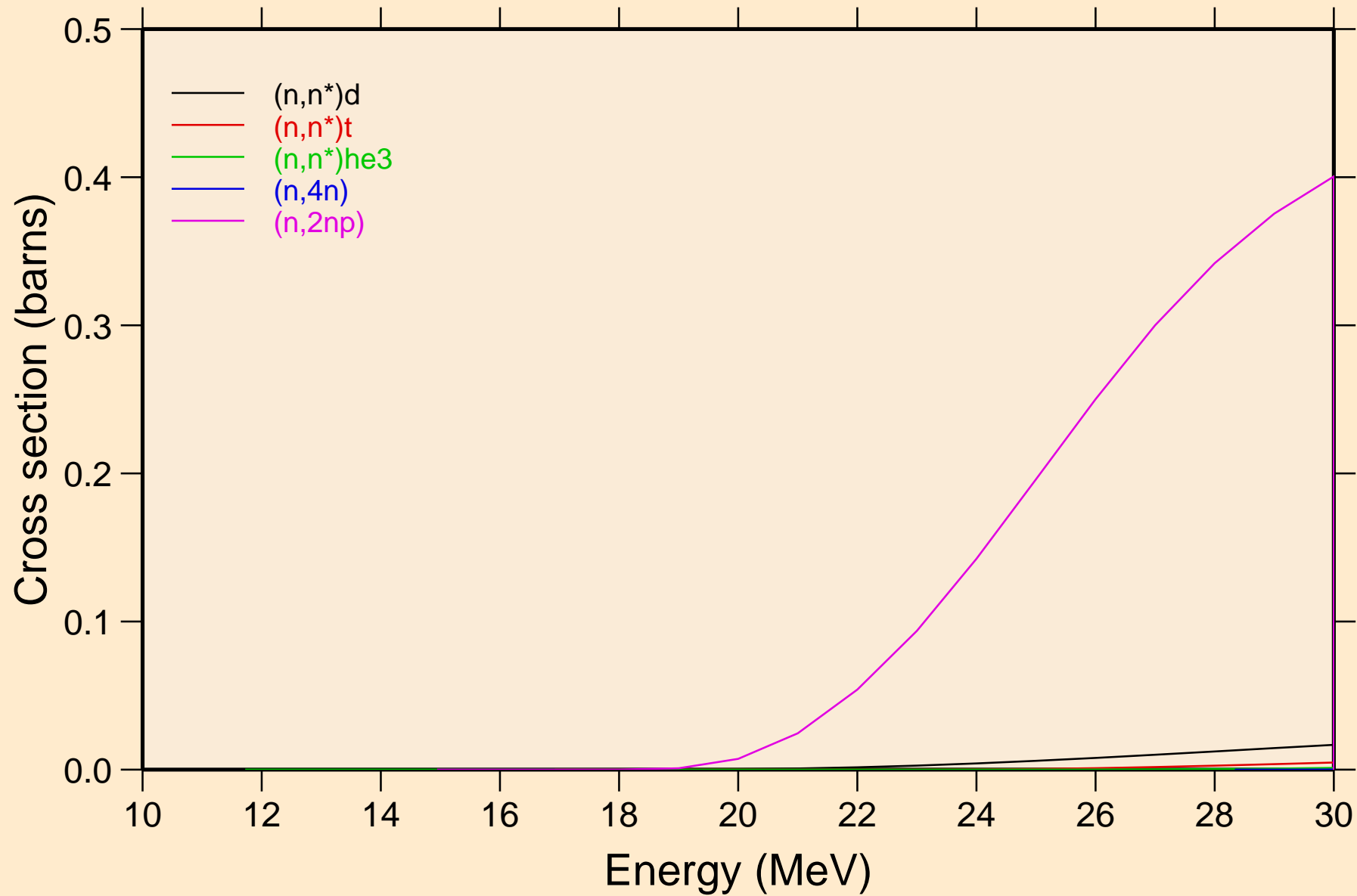
# SN111 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

## Threshold reactions



# SN111 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

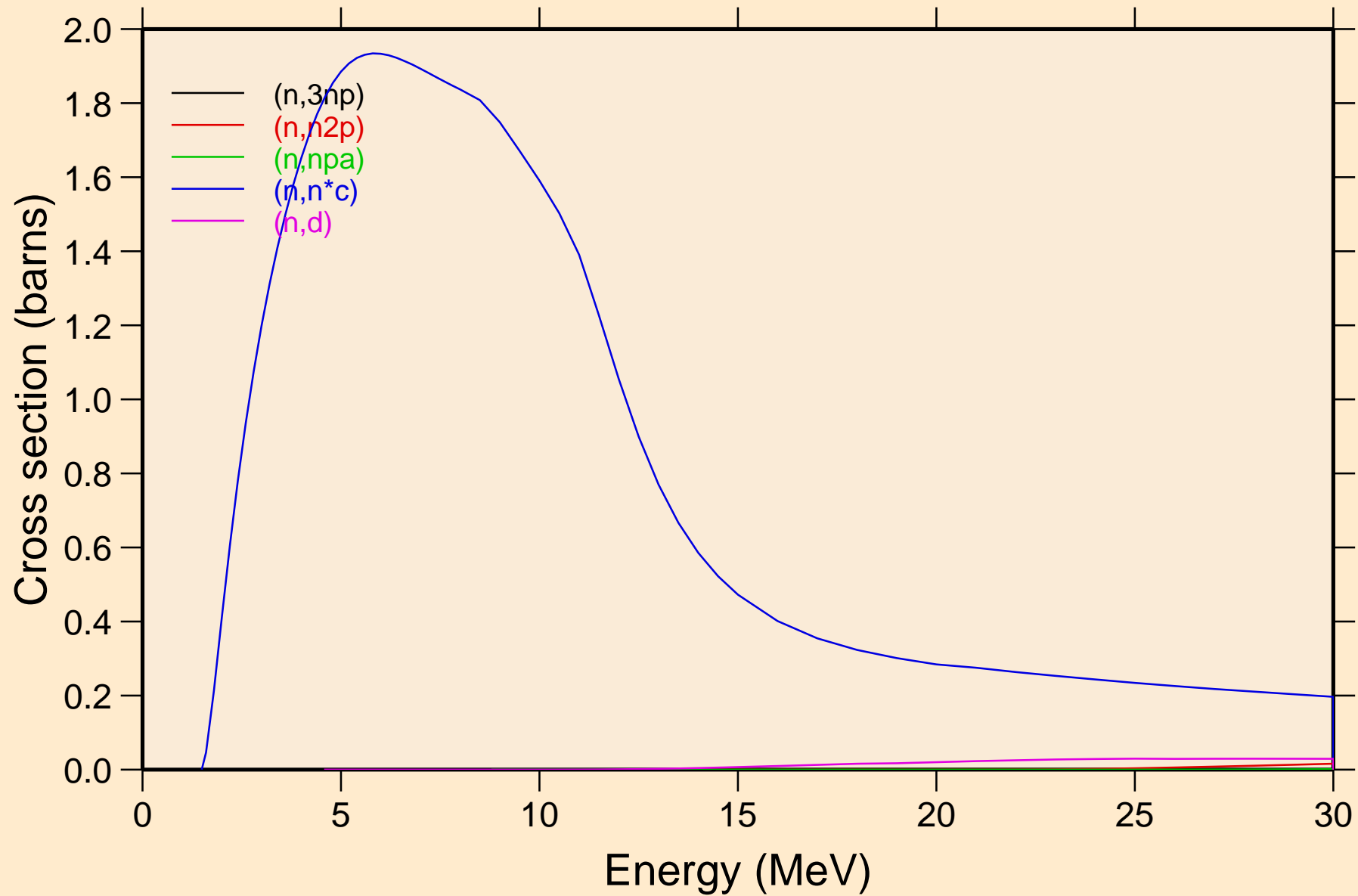
## Threshold reactions





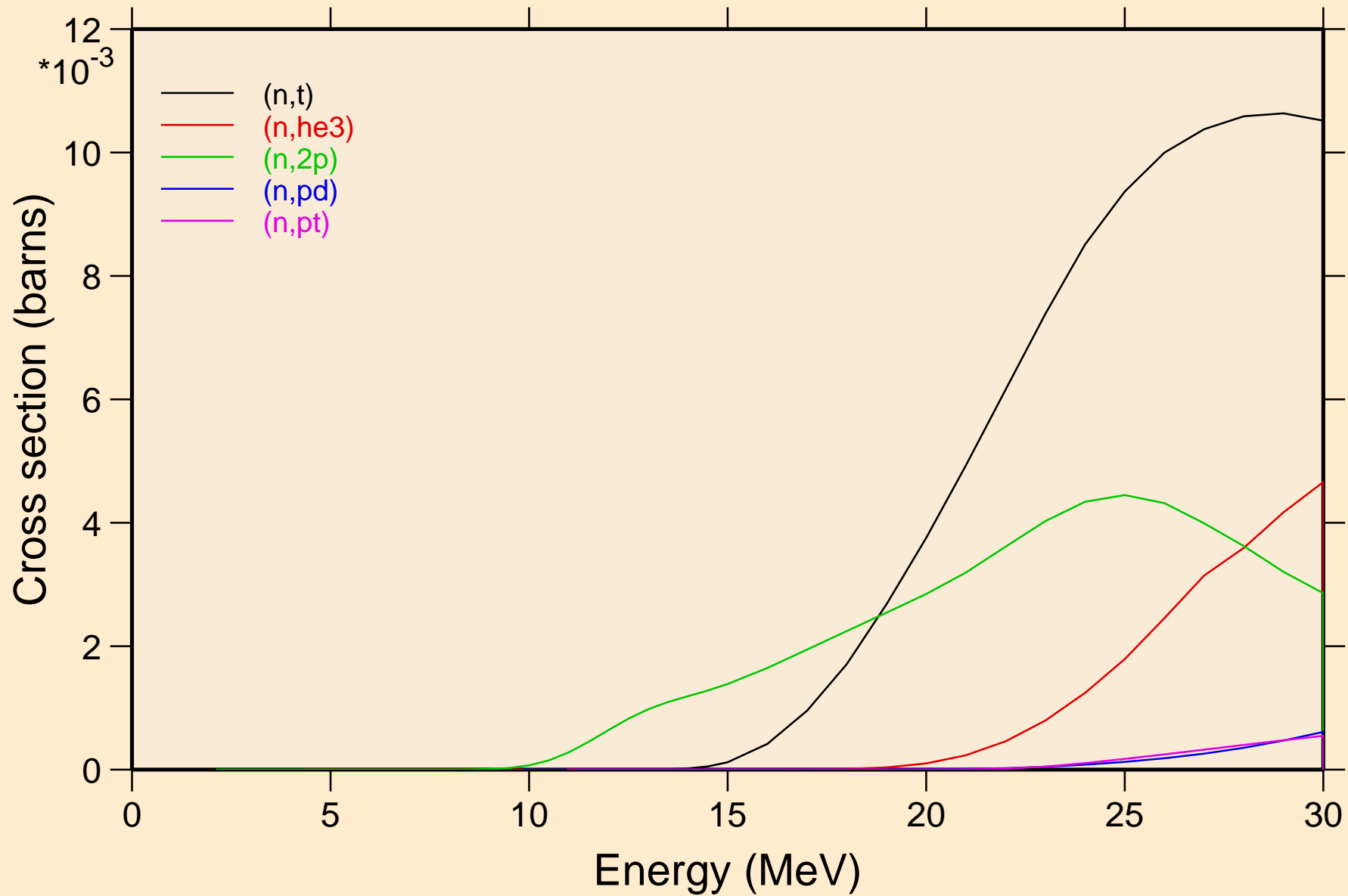
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## Threshold reactions

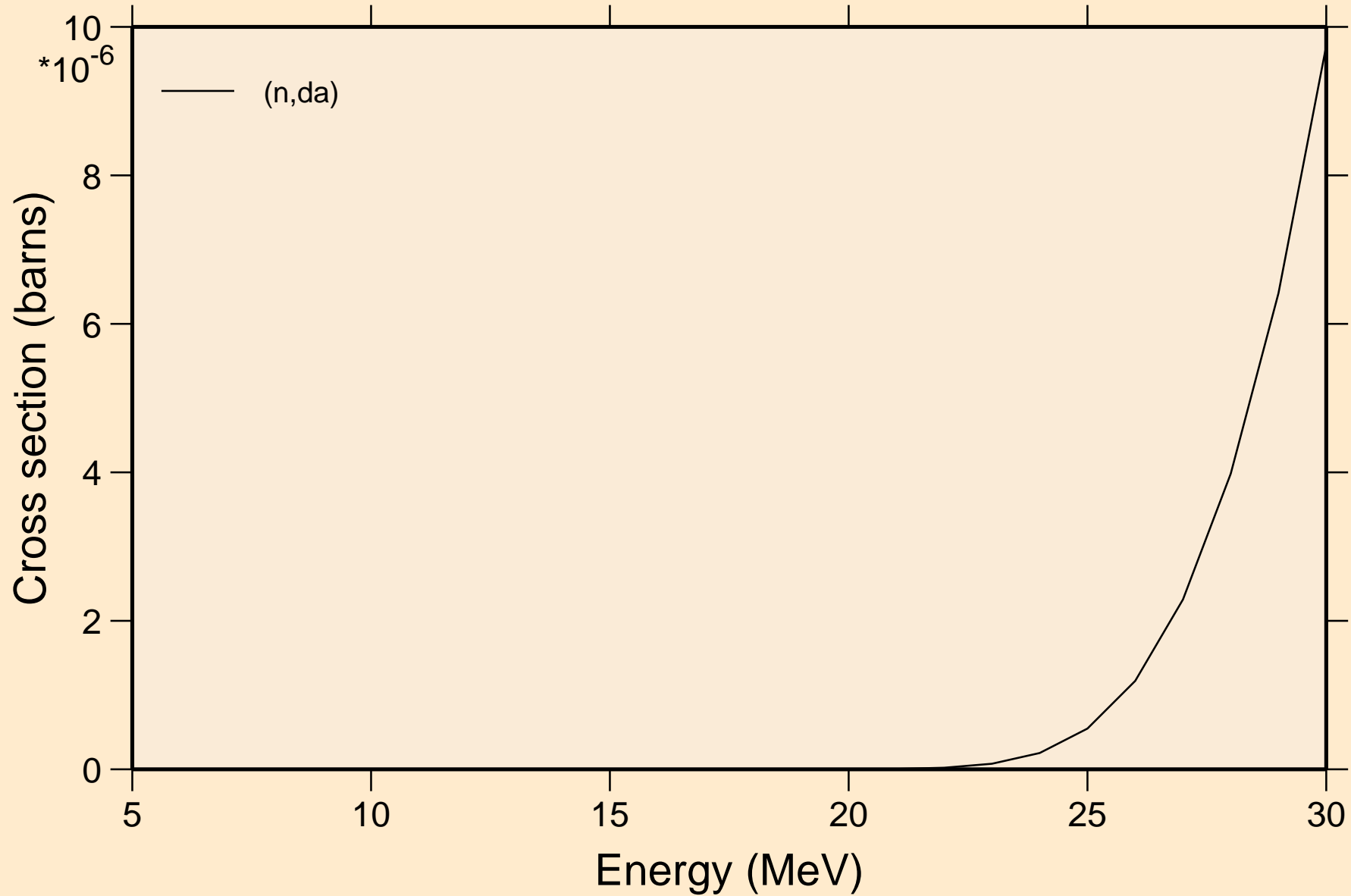


# SN111 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

## Threshold reactions

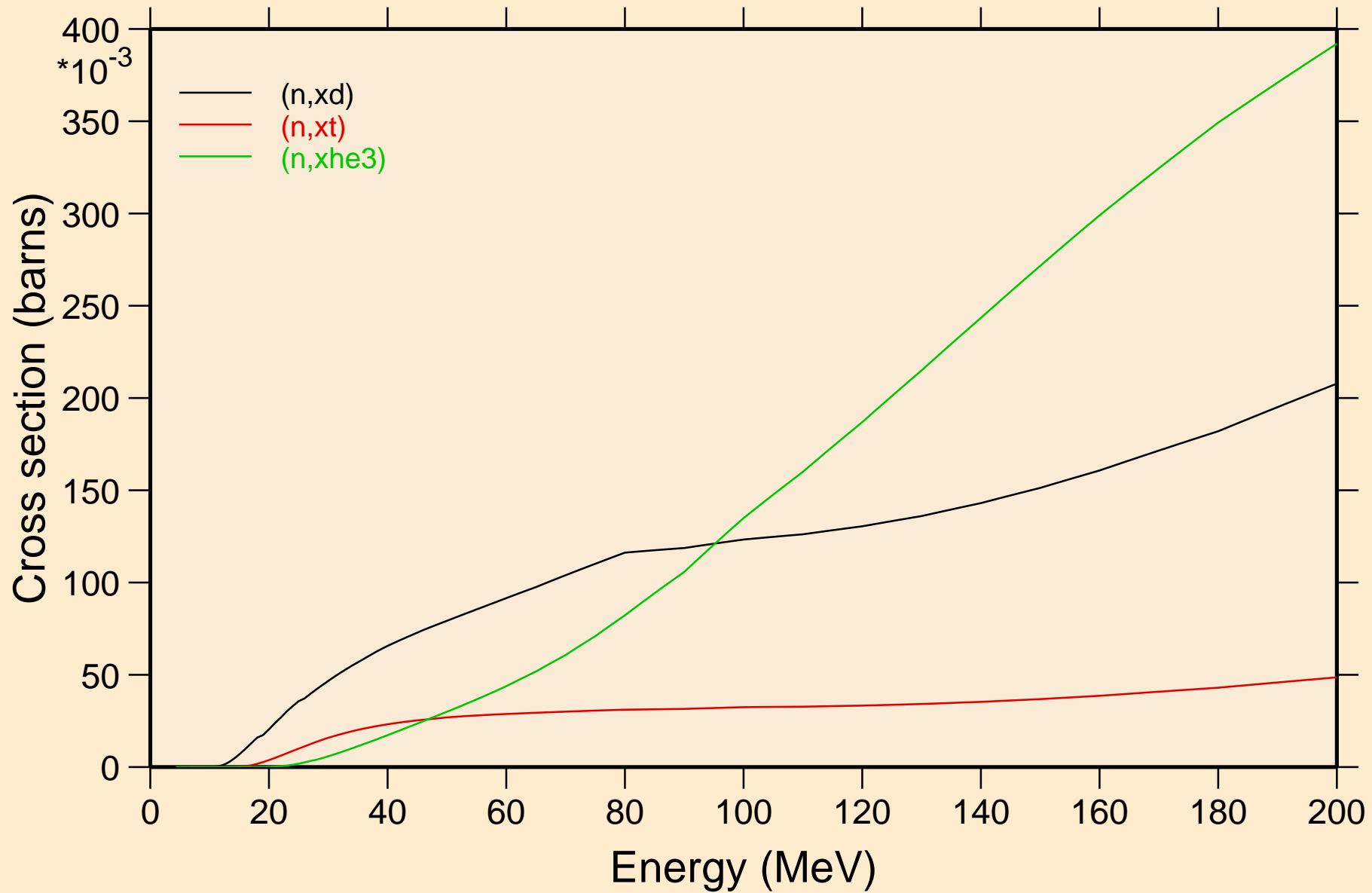


SN111 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Threshold reactions

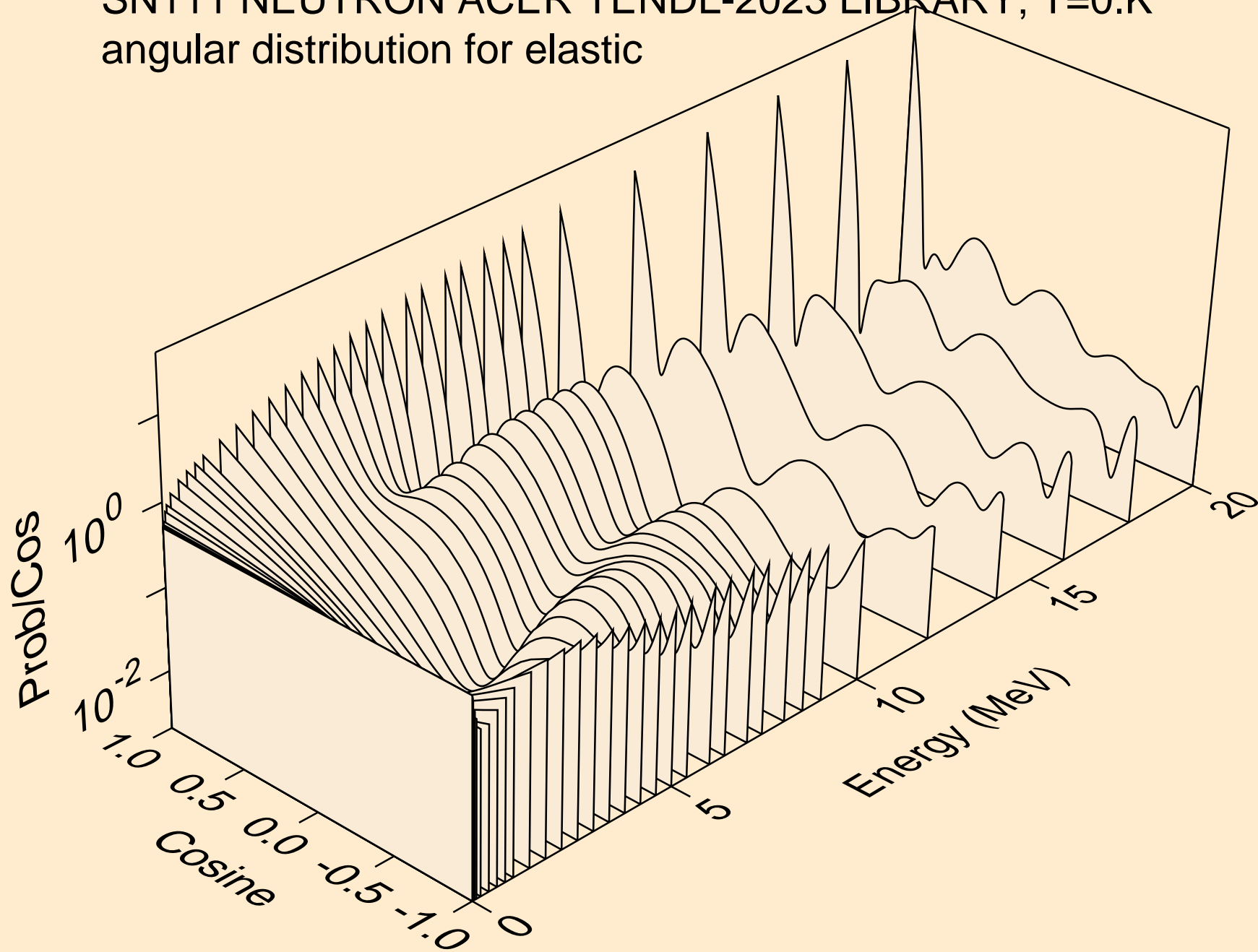


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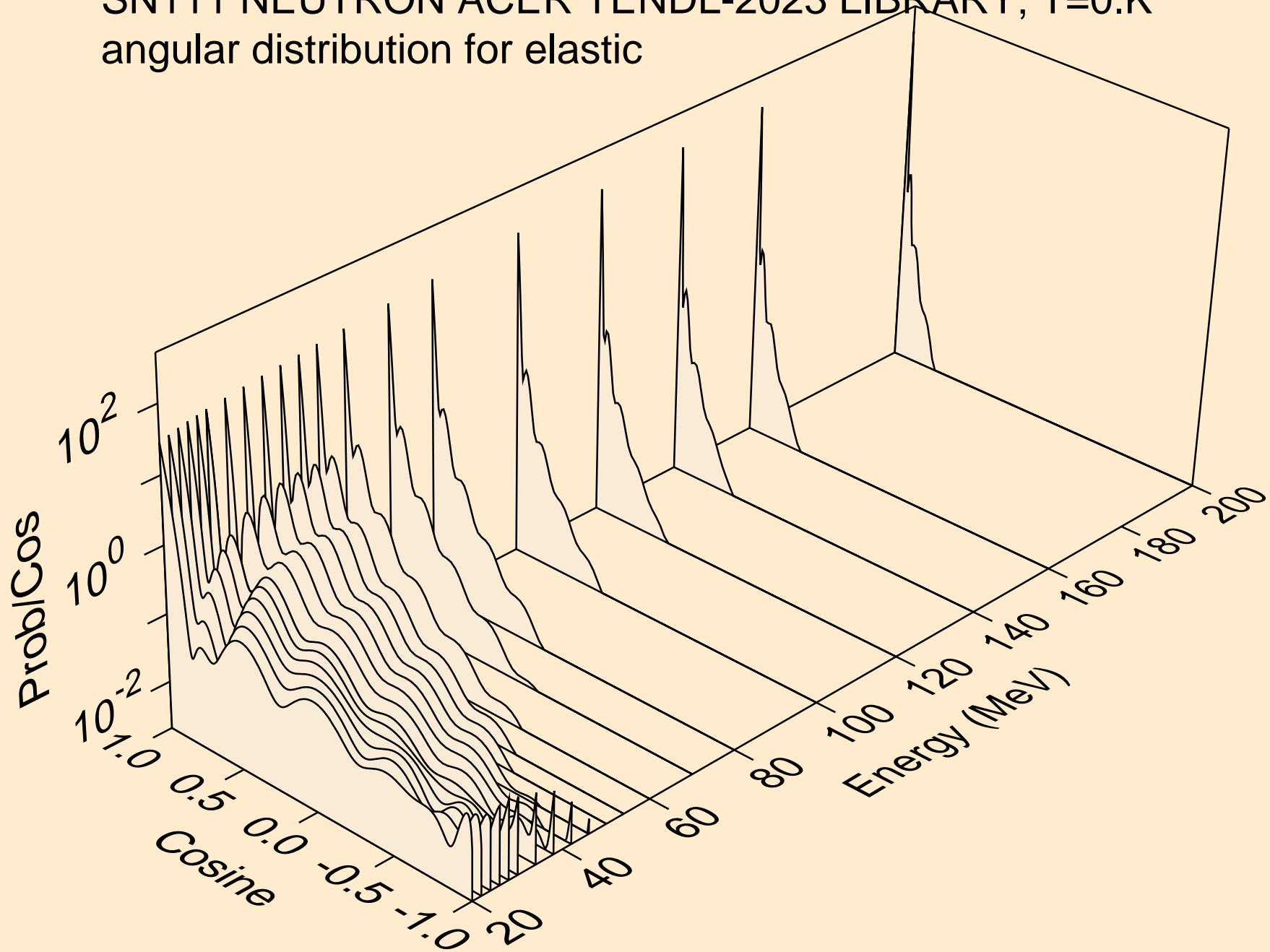
## Threshold reactions



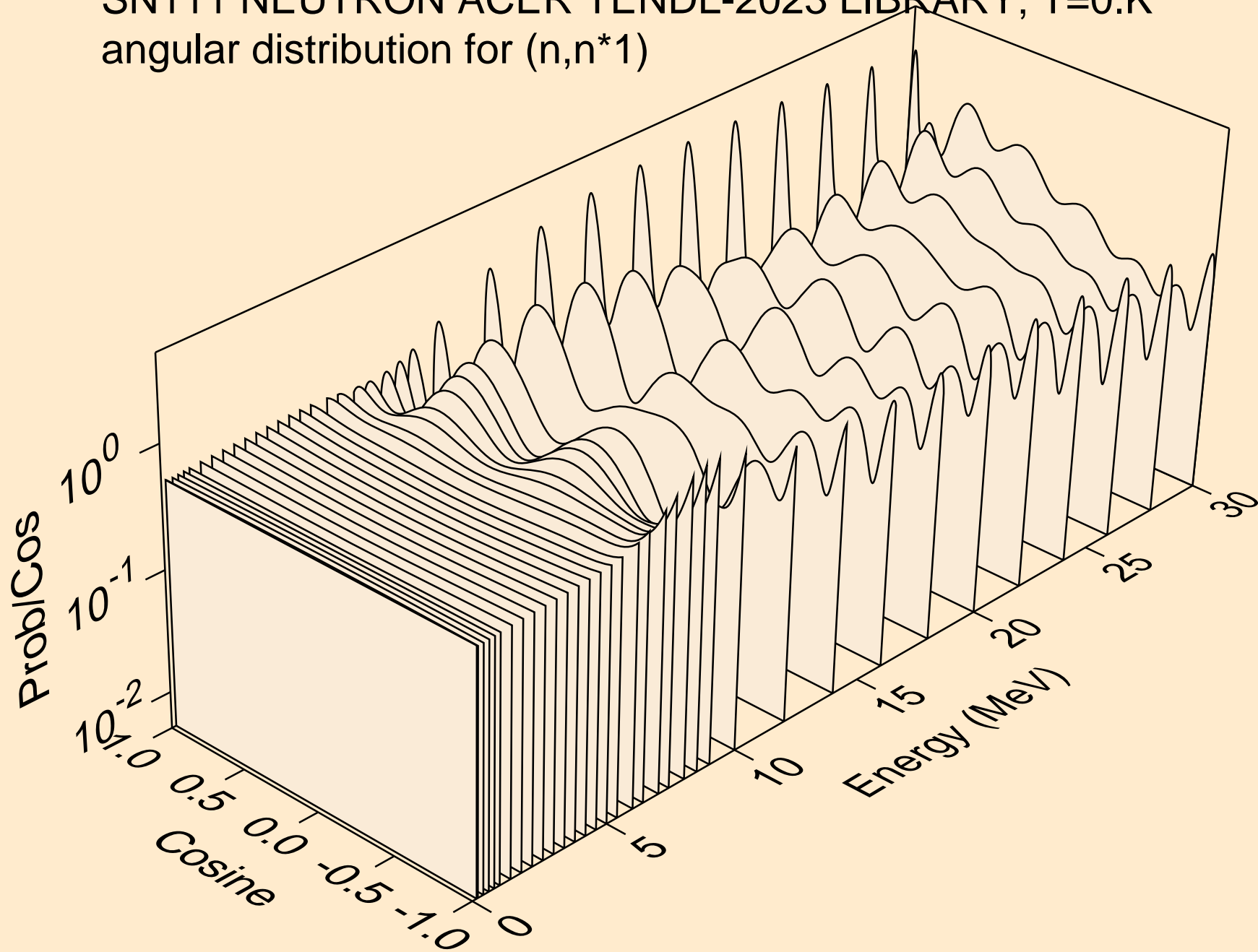
SN111 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for elastic



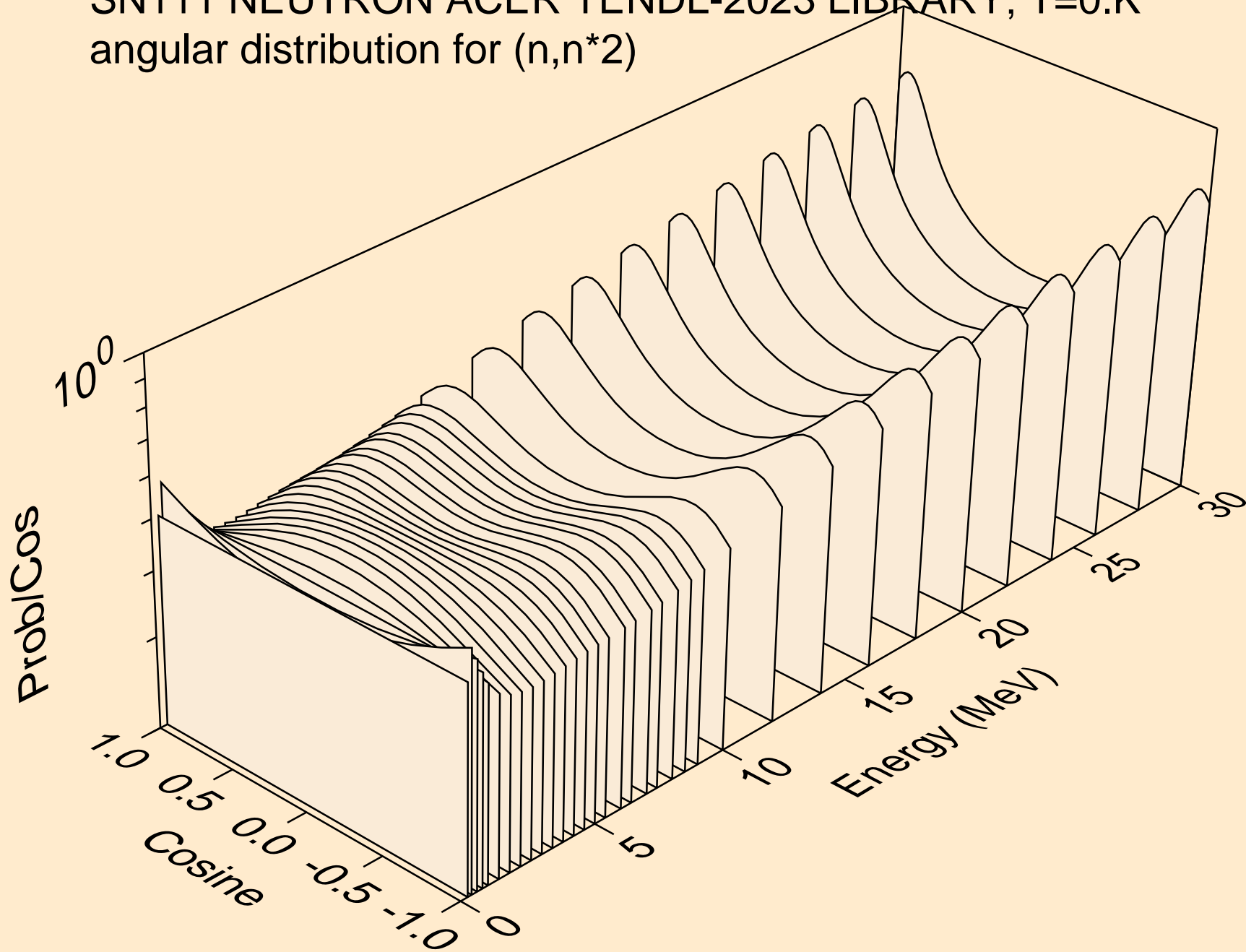
SN111 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for elastic



SN111 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*1)

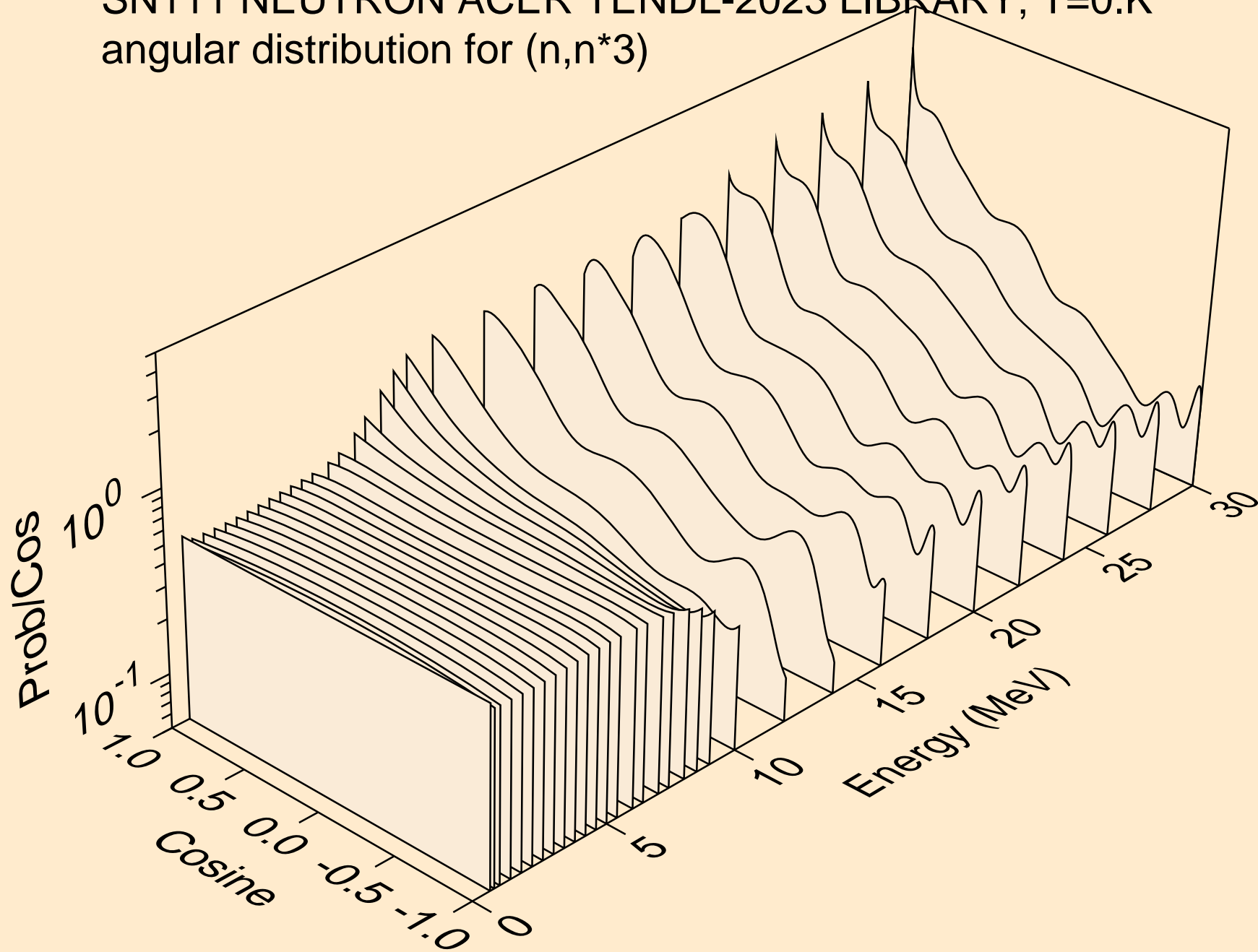


SN111 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*2)

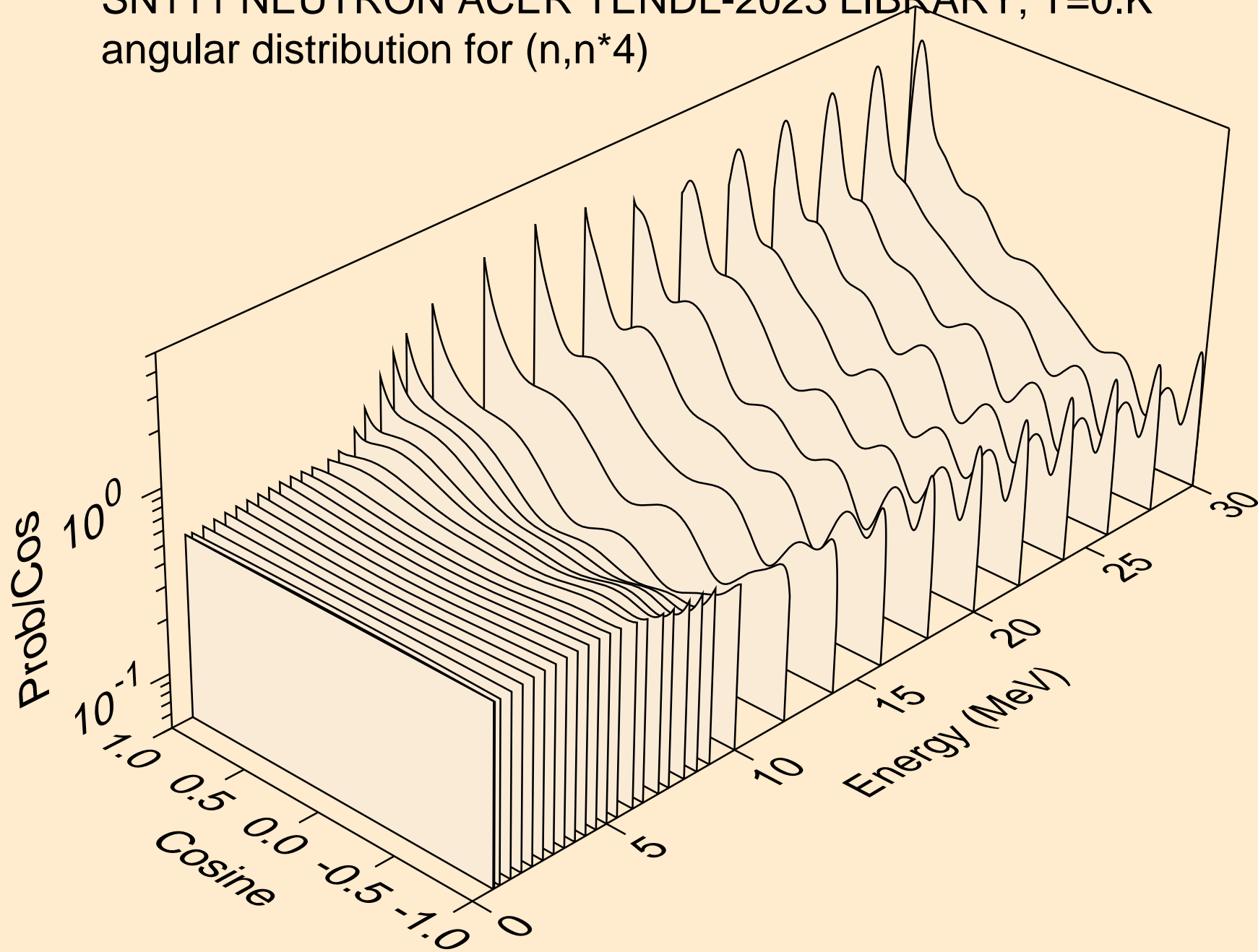




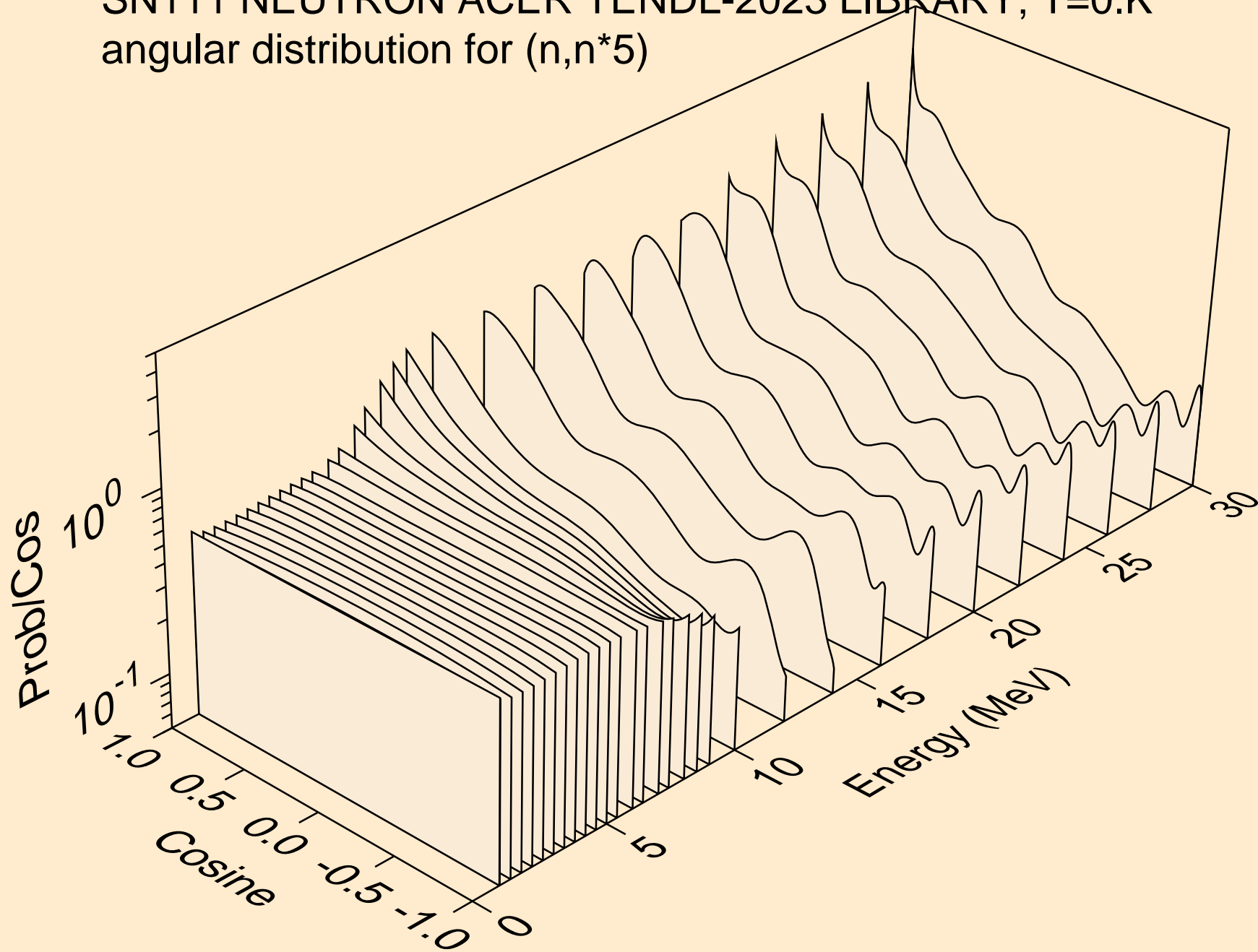
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angular distribution for (n,n\*3)



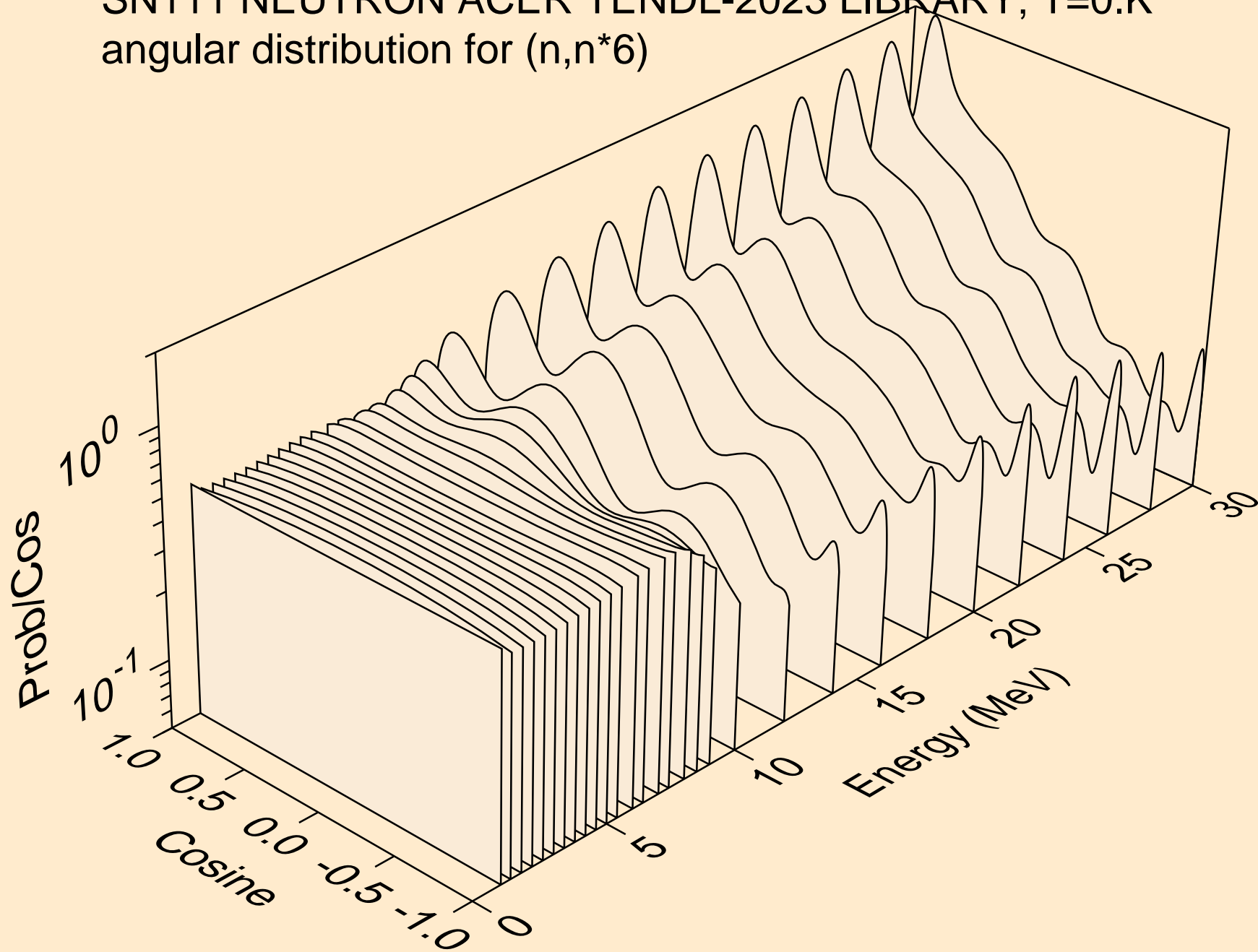
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angular distribution for (n,n\*4)



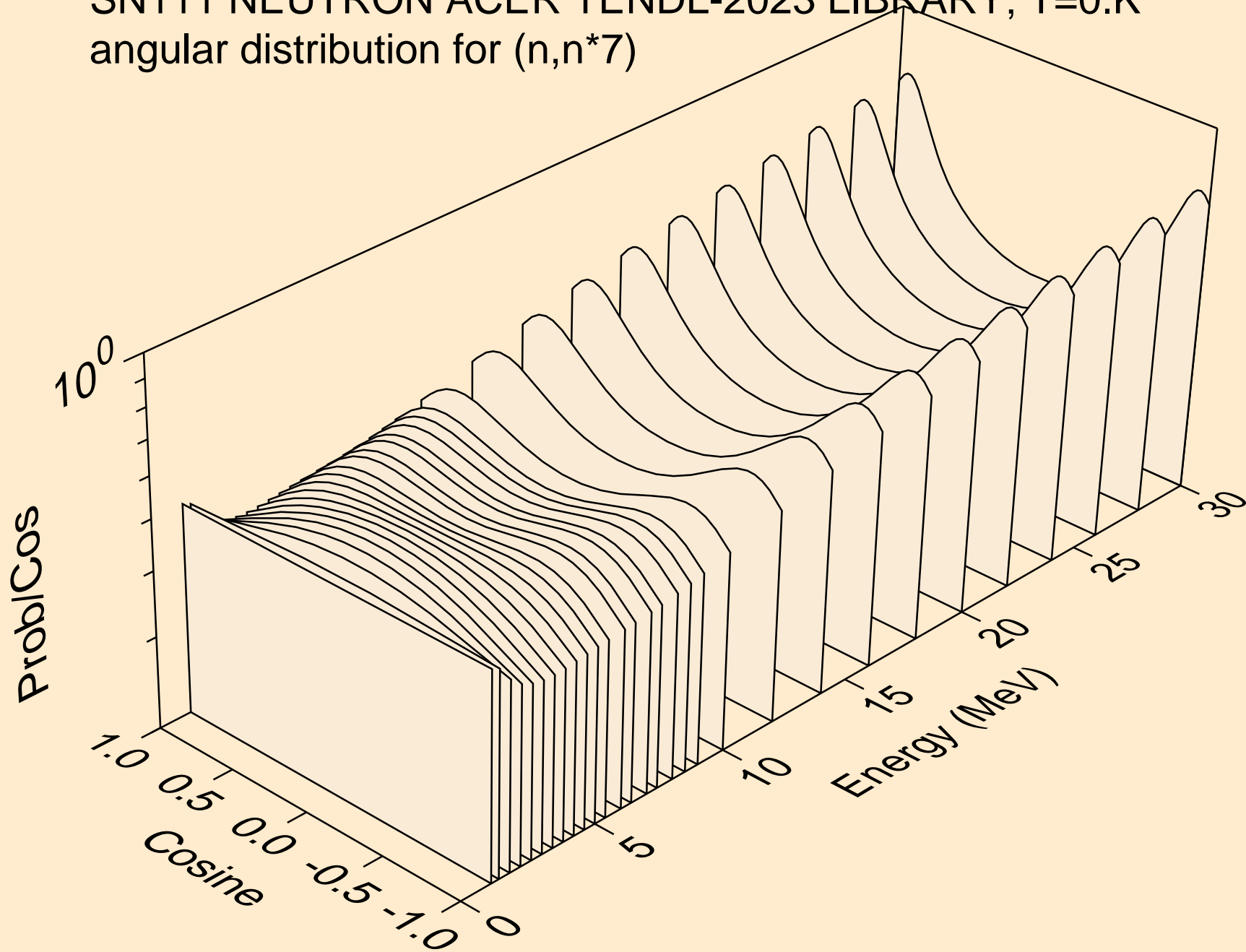
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angular distribution for (n,n\*5)



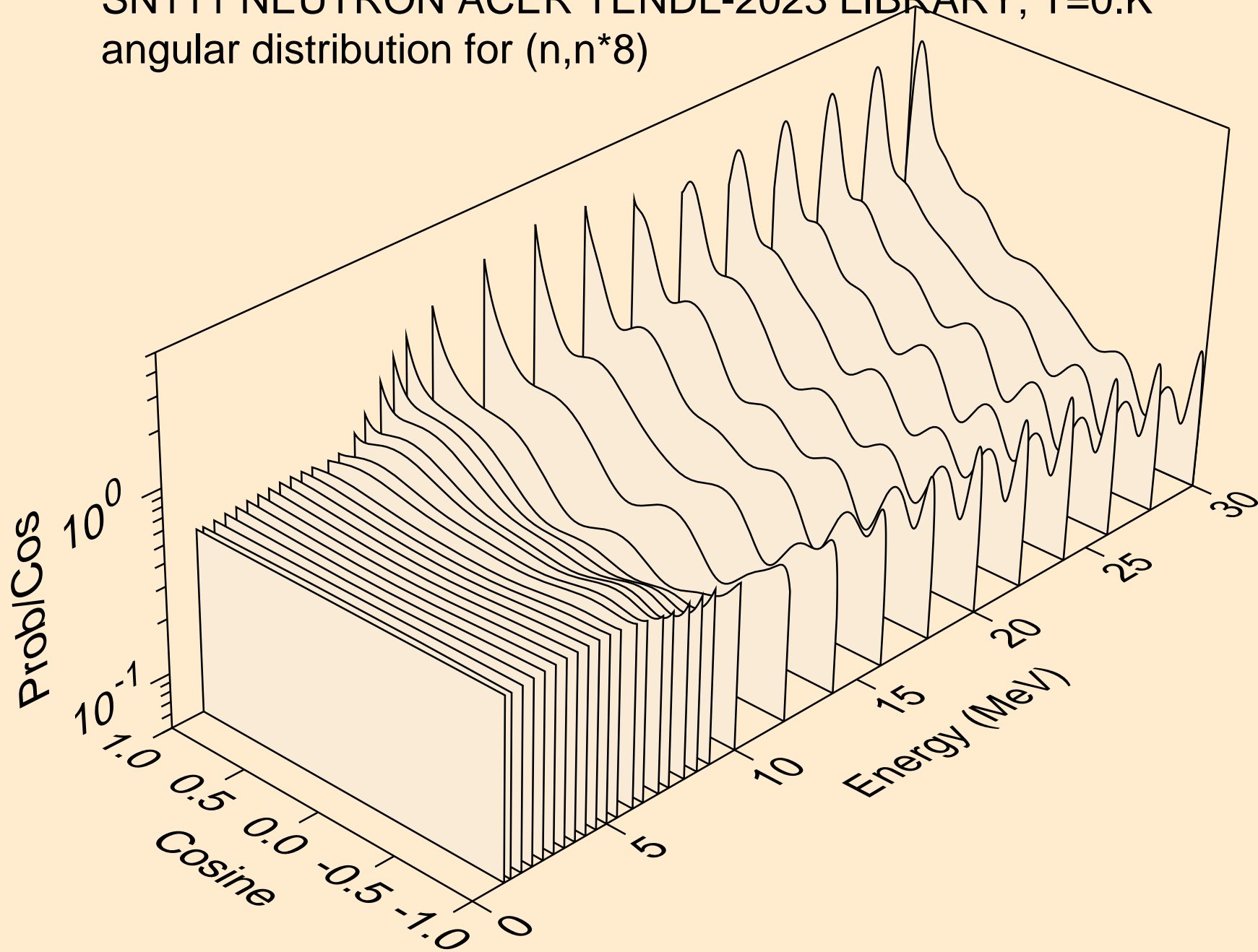
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angular distribution for (n,n\*6)



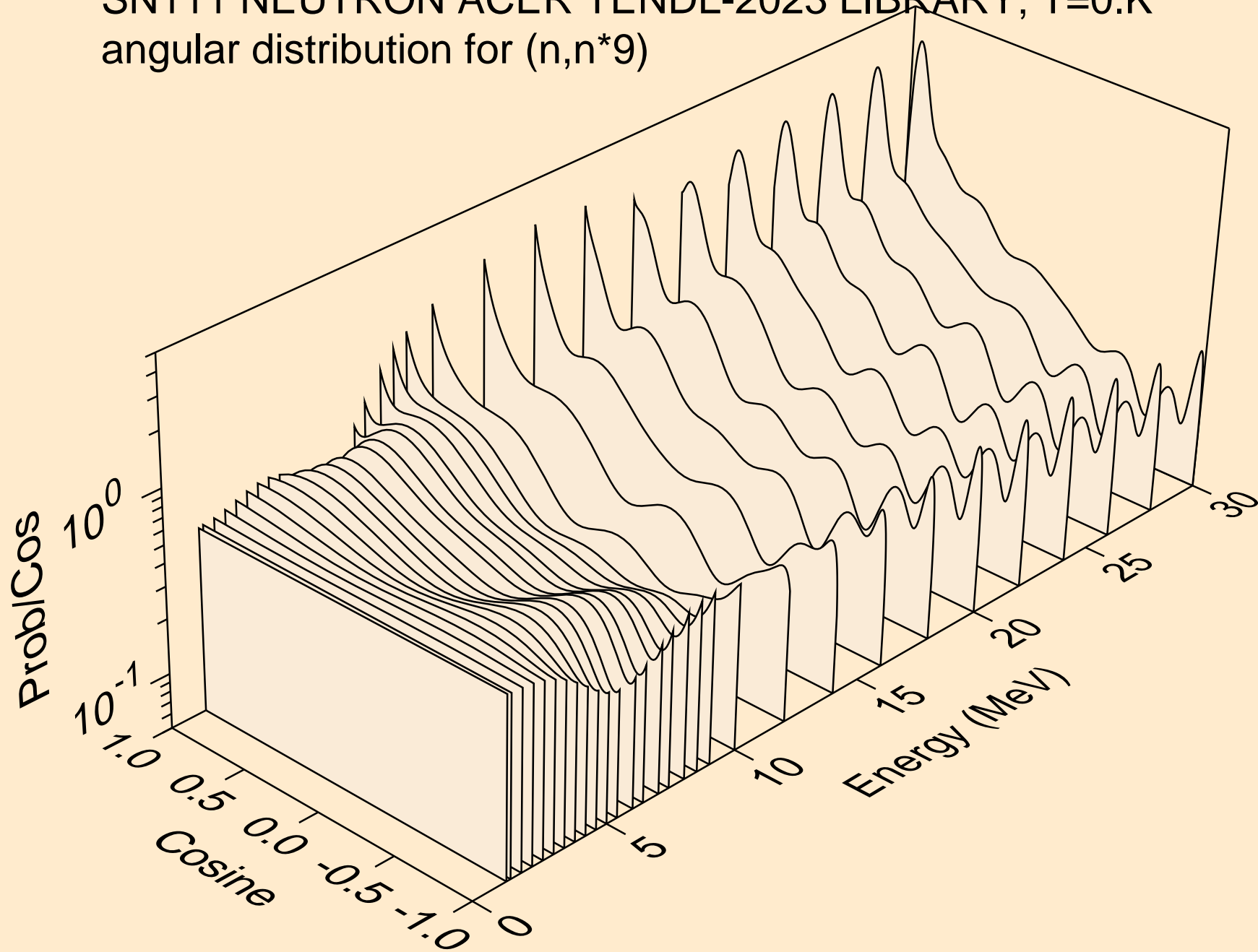
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angular distribution for (n,n\*7)



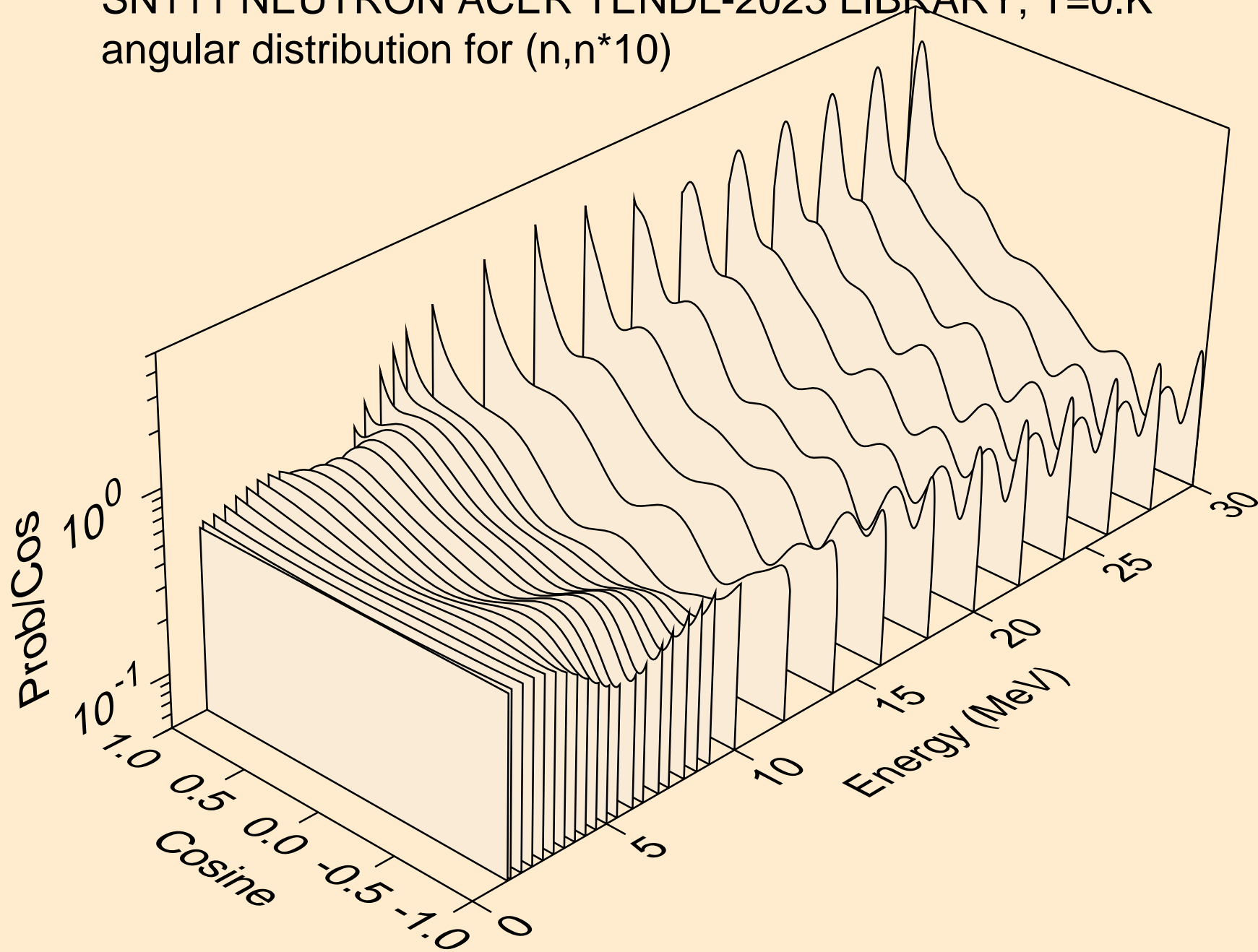
SN111 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*8)



SN111 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*9)

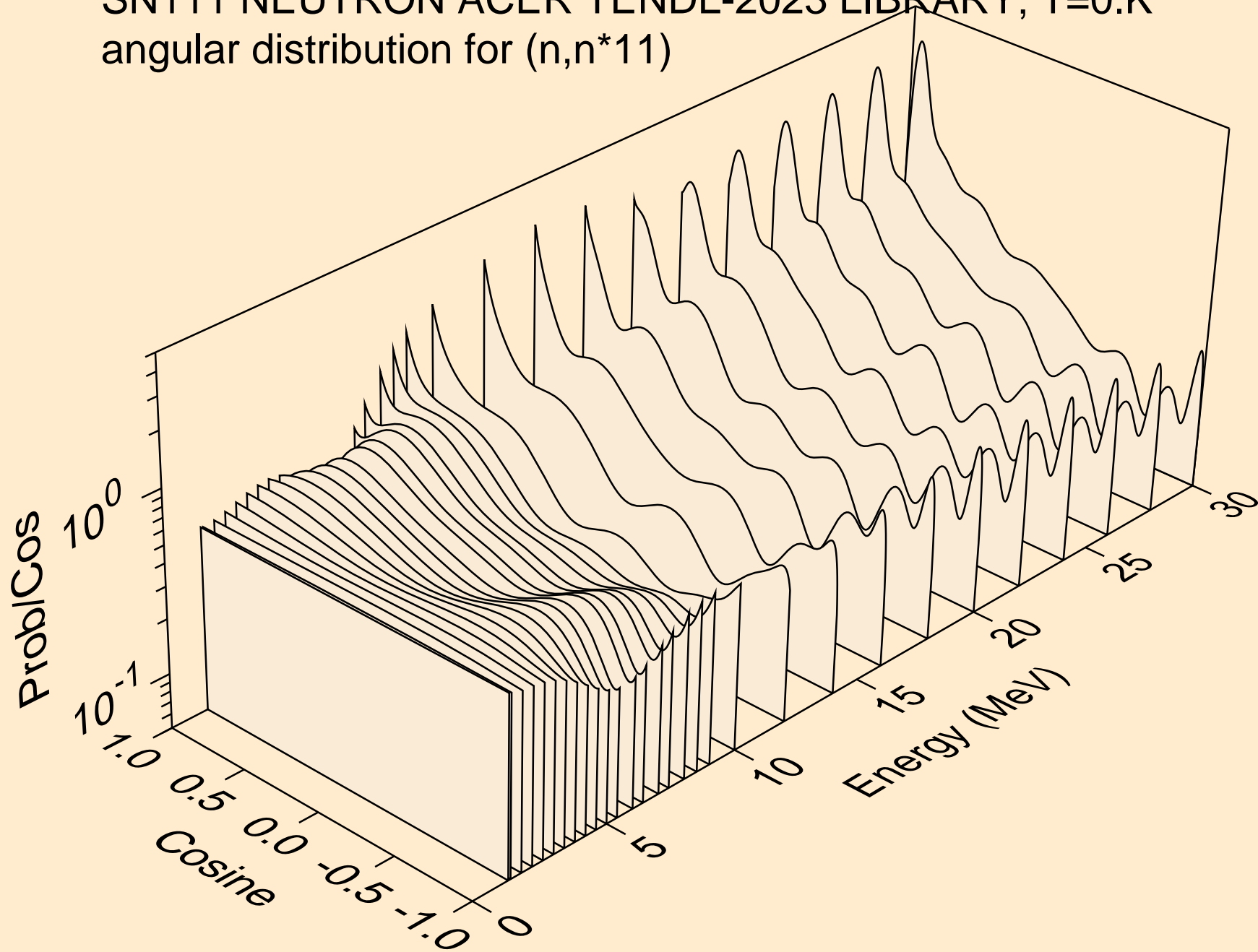


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angular distribution for (n,n\*10)

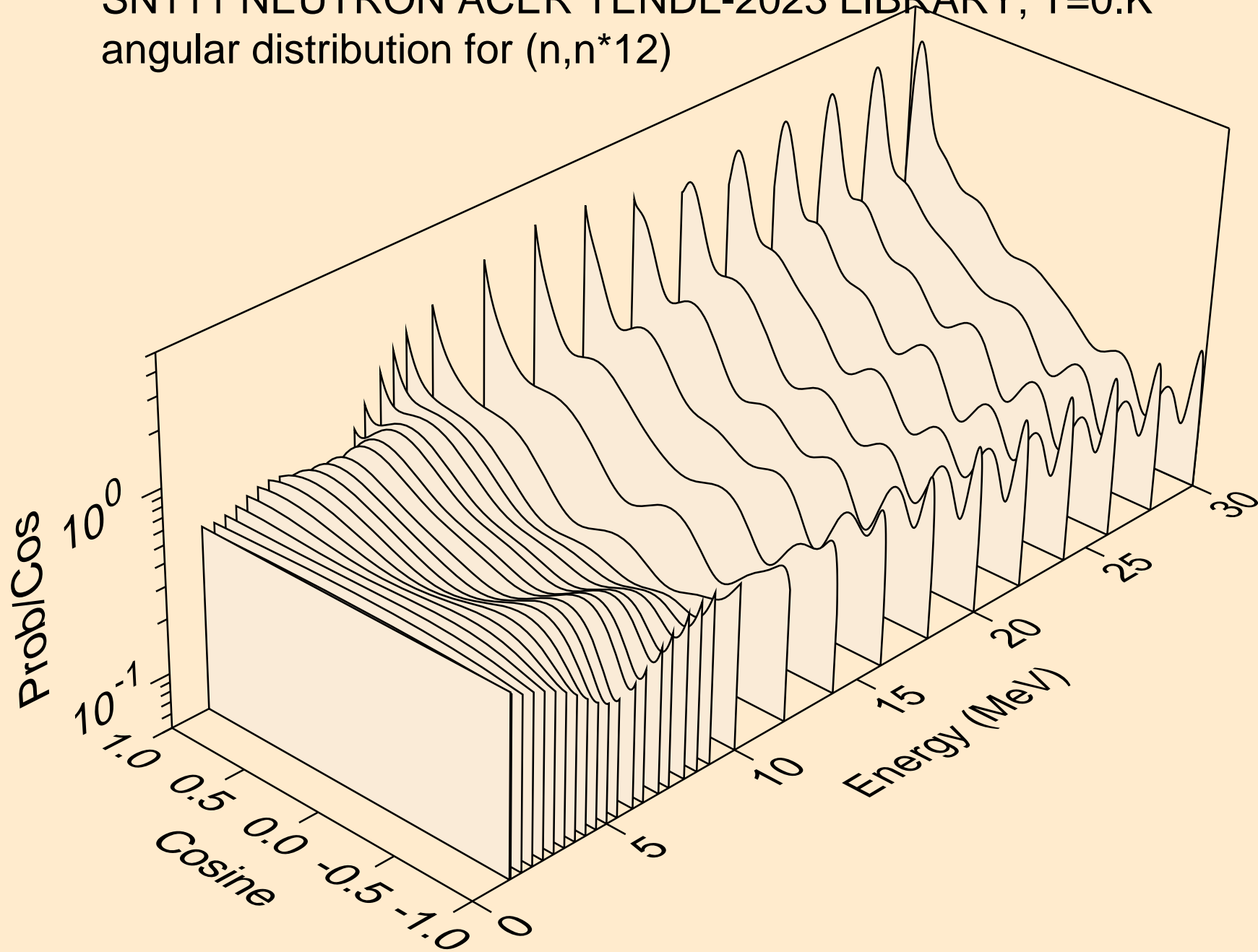




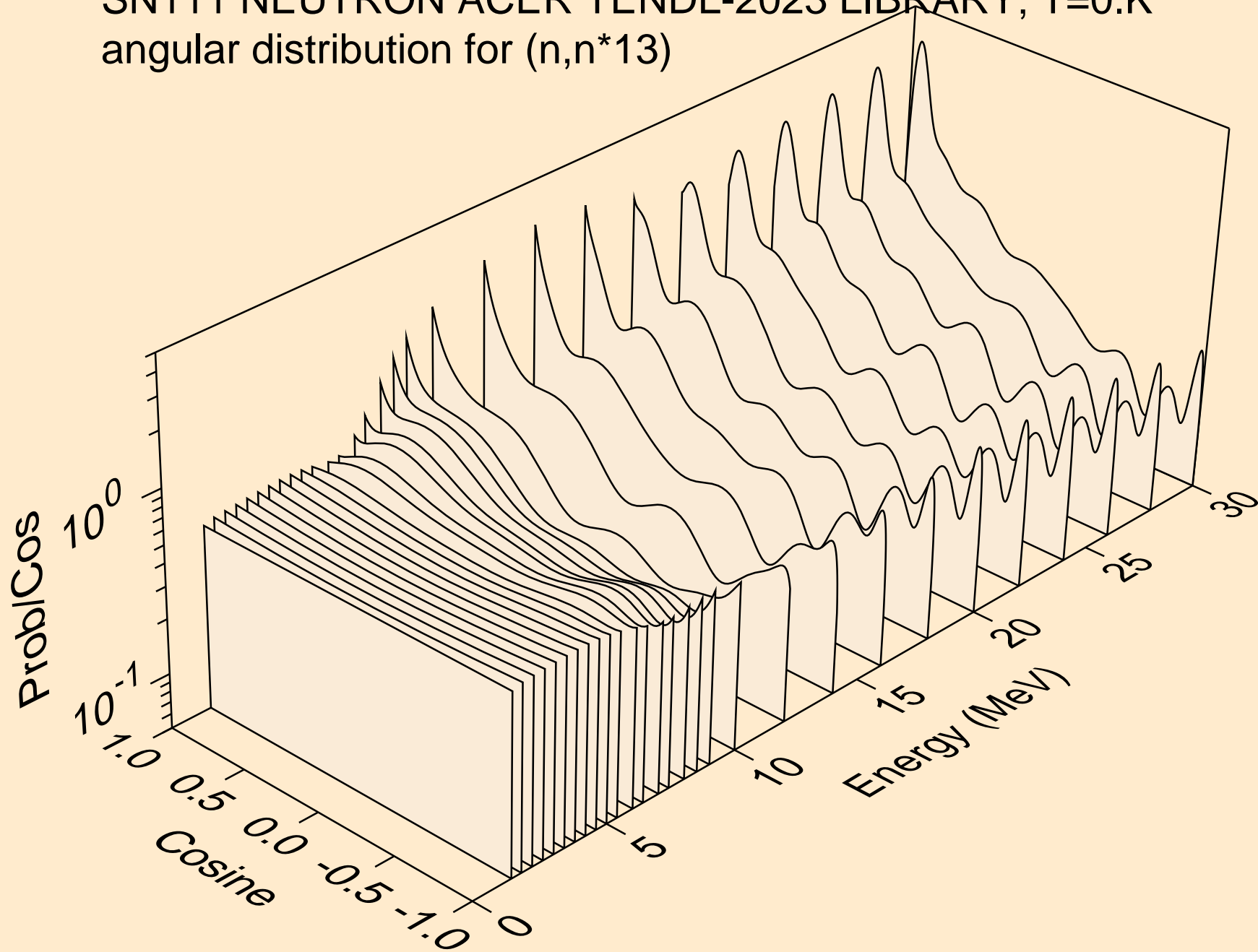
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angular distribution for (n,n\*11)



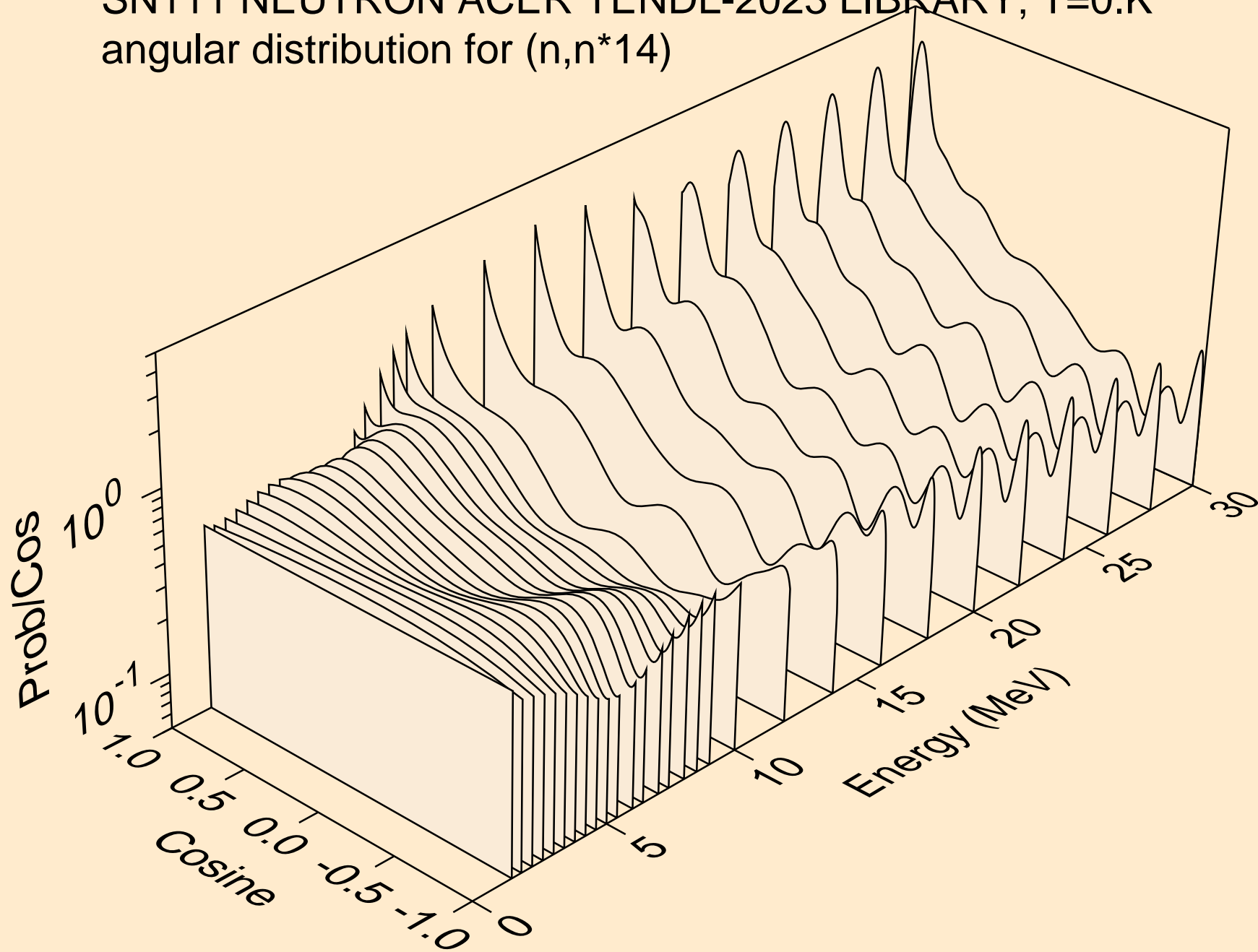
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angular distribution for (n,n\*12)



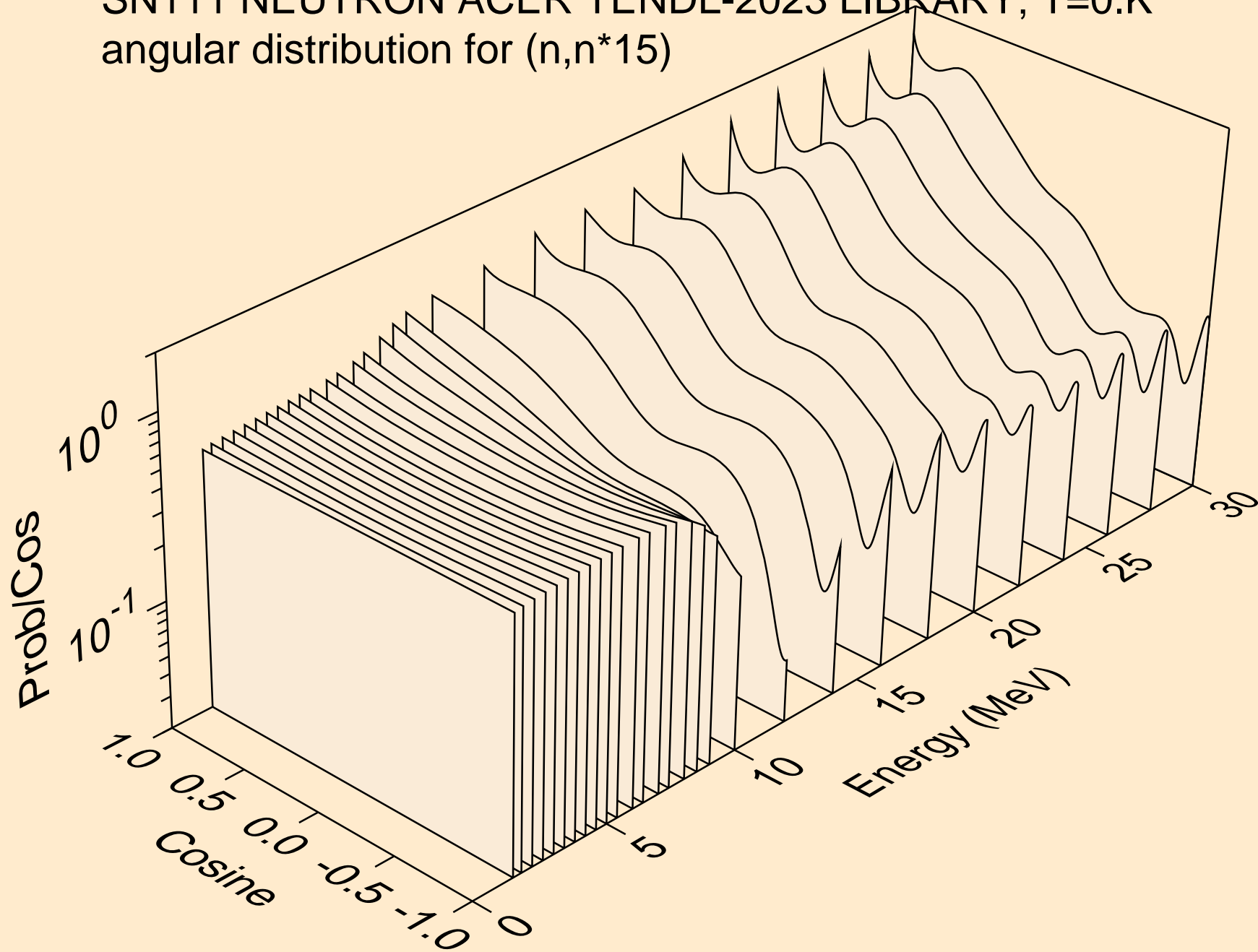
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angular distribution for (n,n\*13)



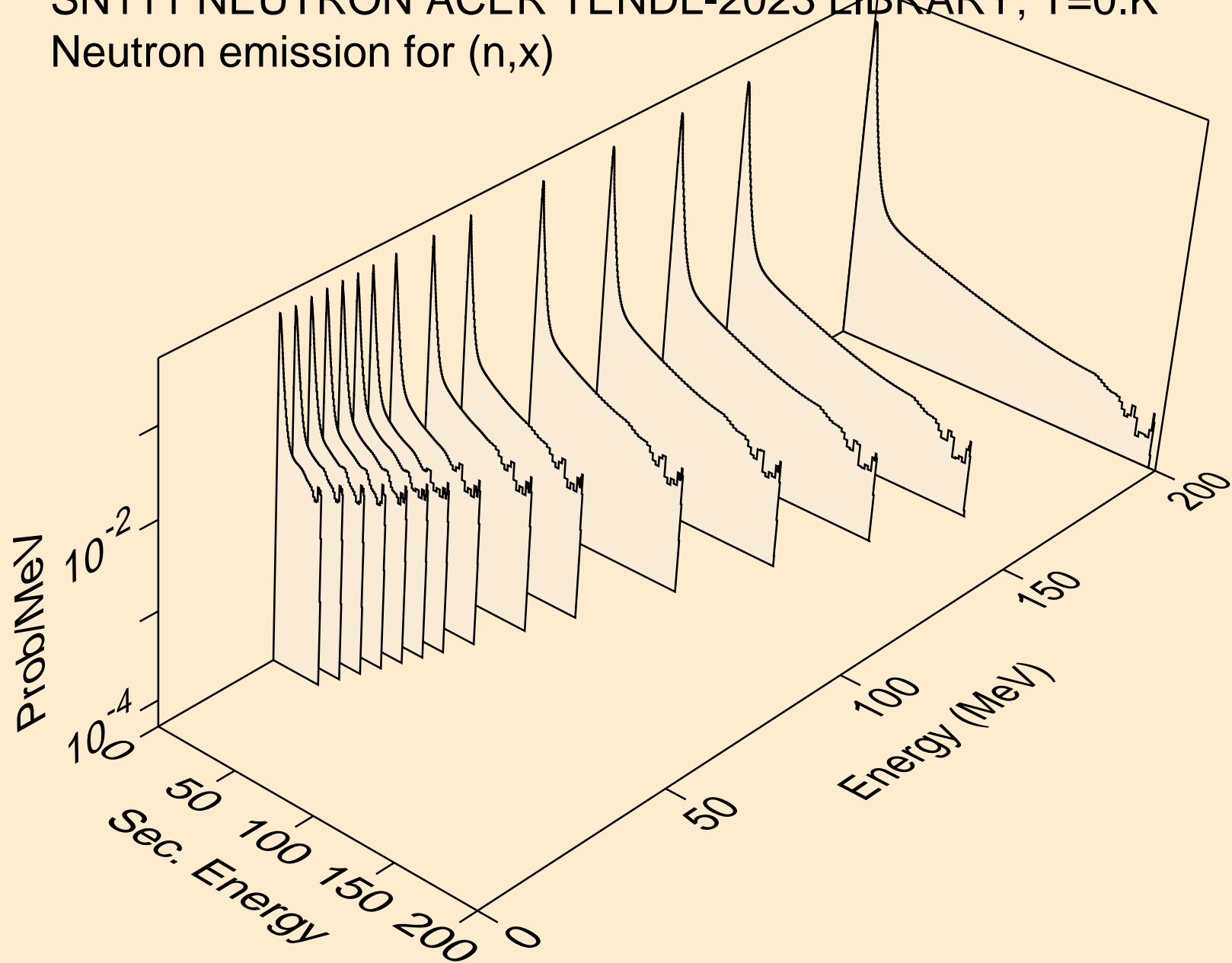
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angular distribution for (n,n\*14)



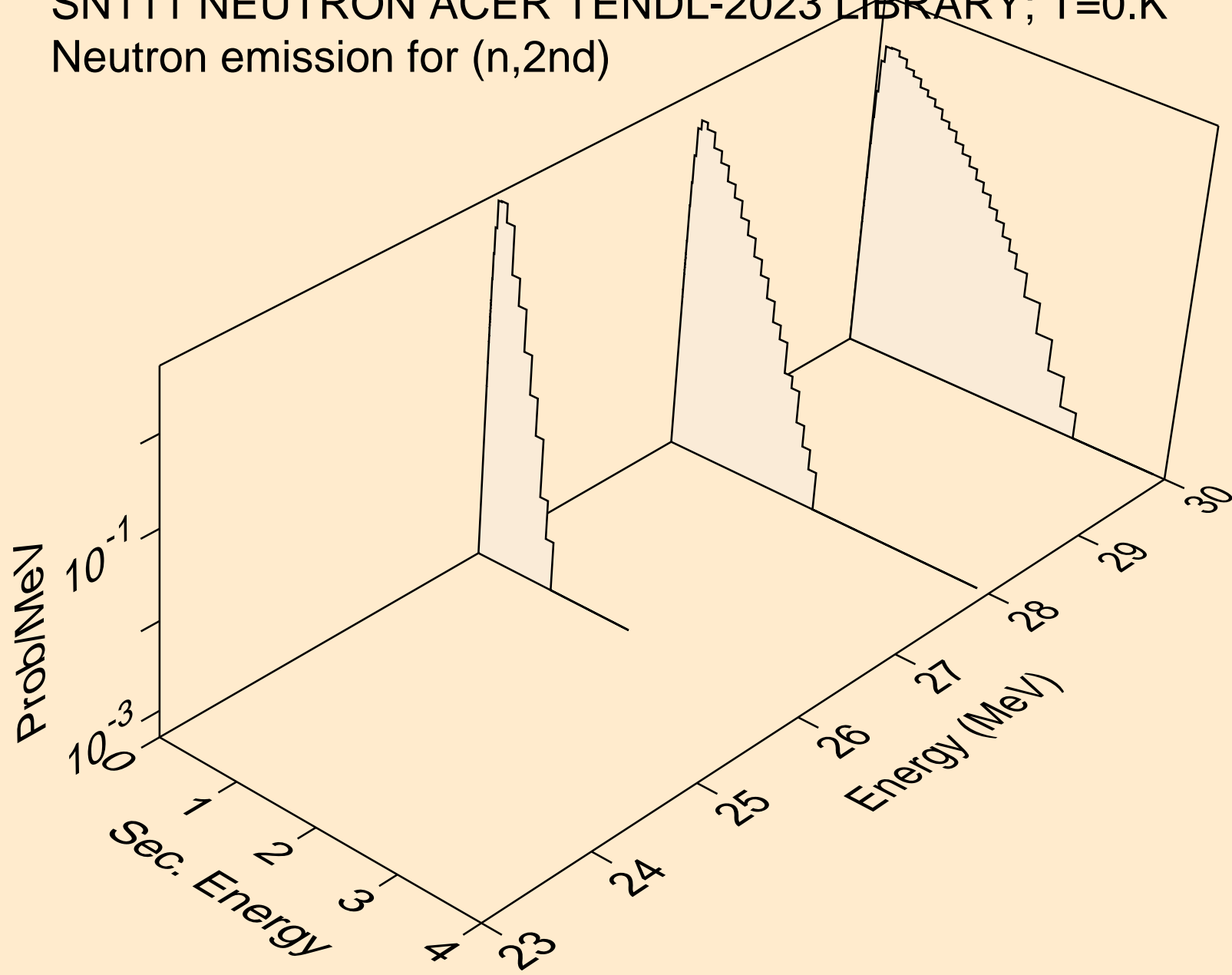
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angular distribution for (n,n\*15)



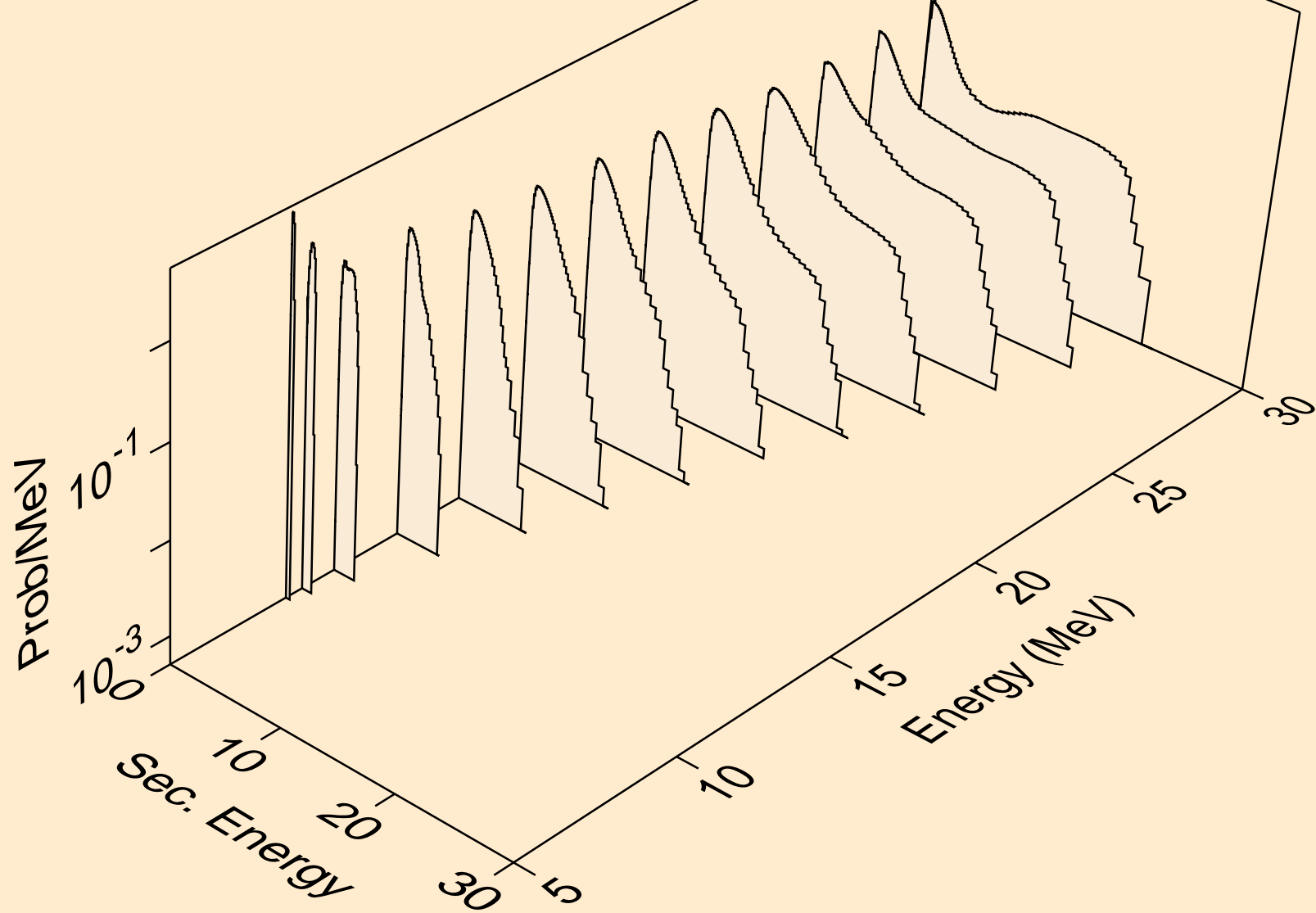
SN111 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,x)



SN111 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,2nd)

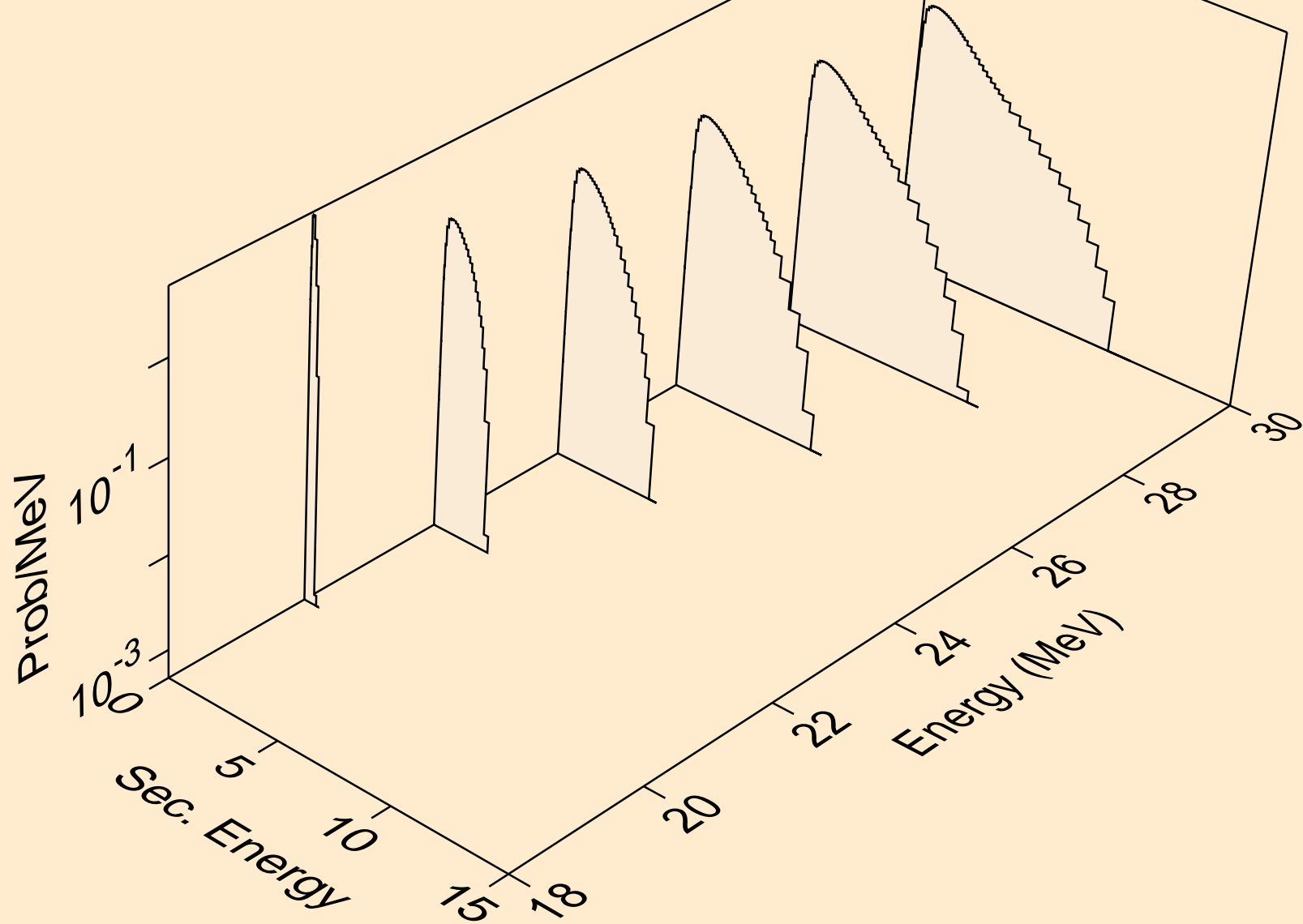


SN111 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,2n)

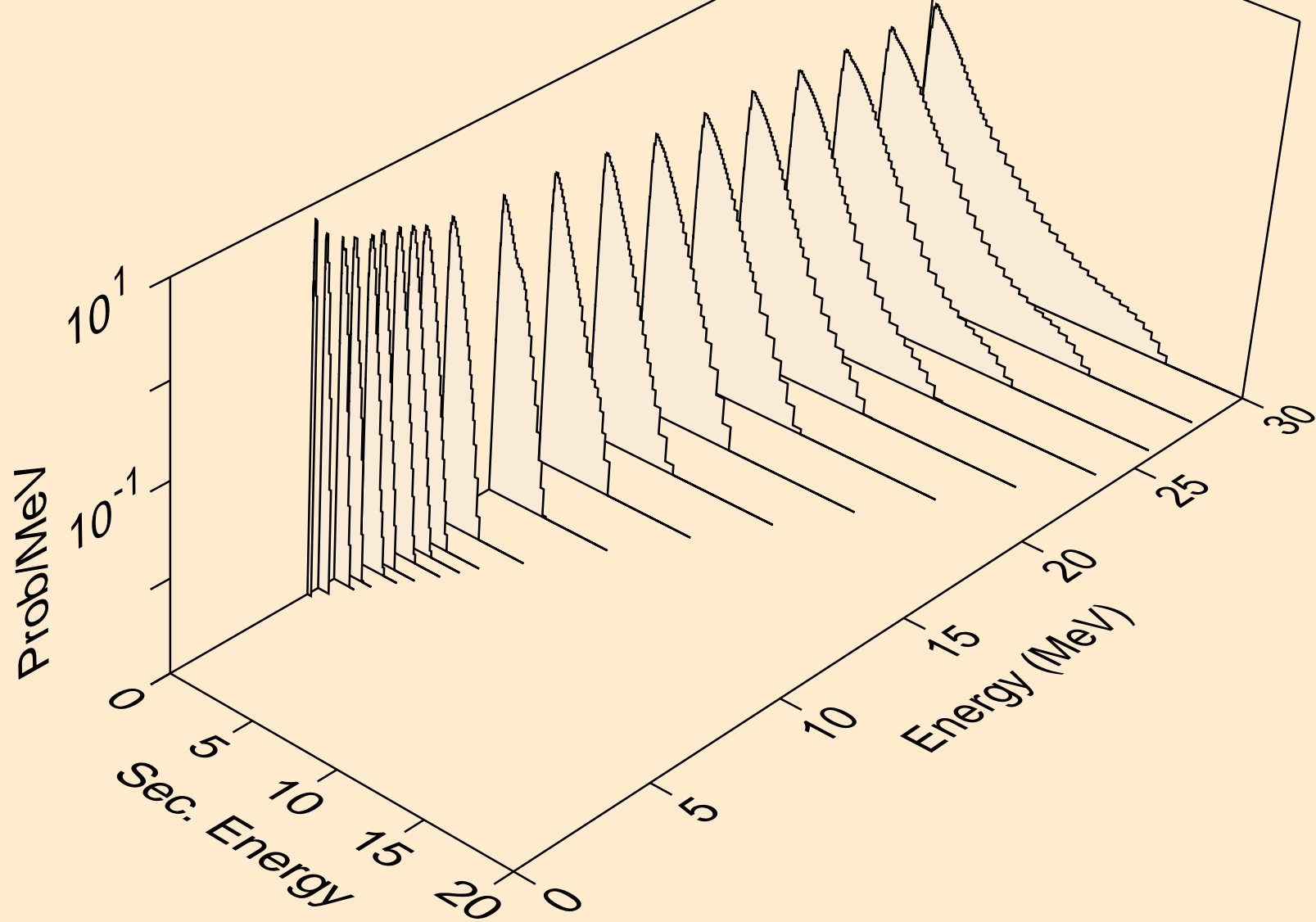




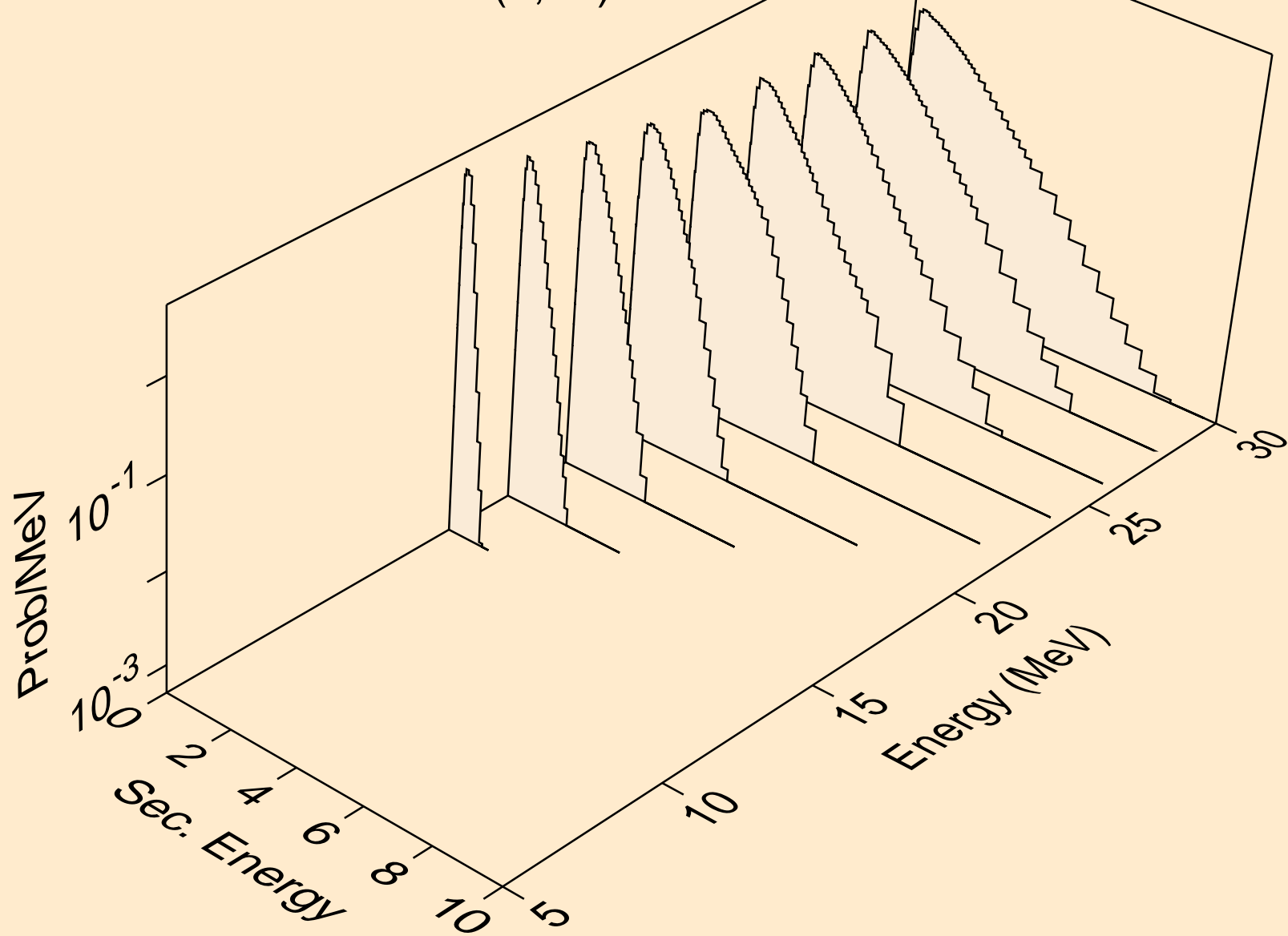
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Neutron emission for (n,3n)



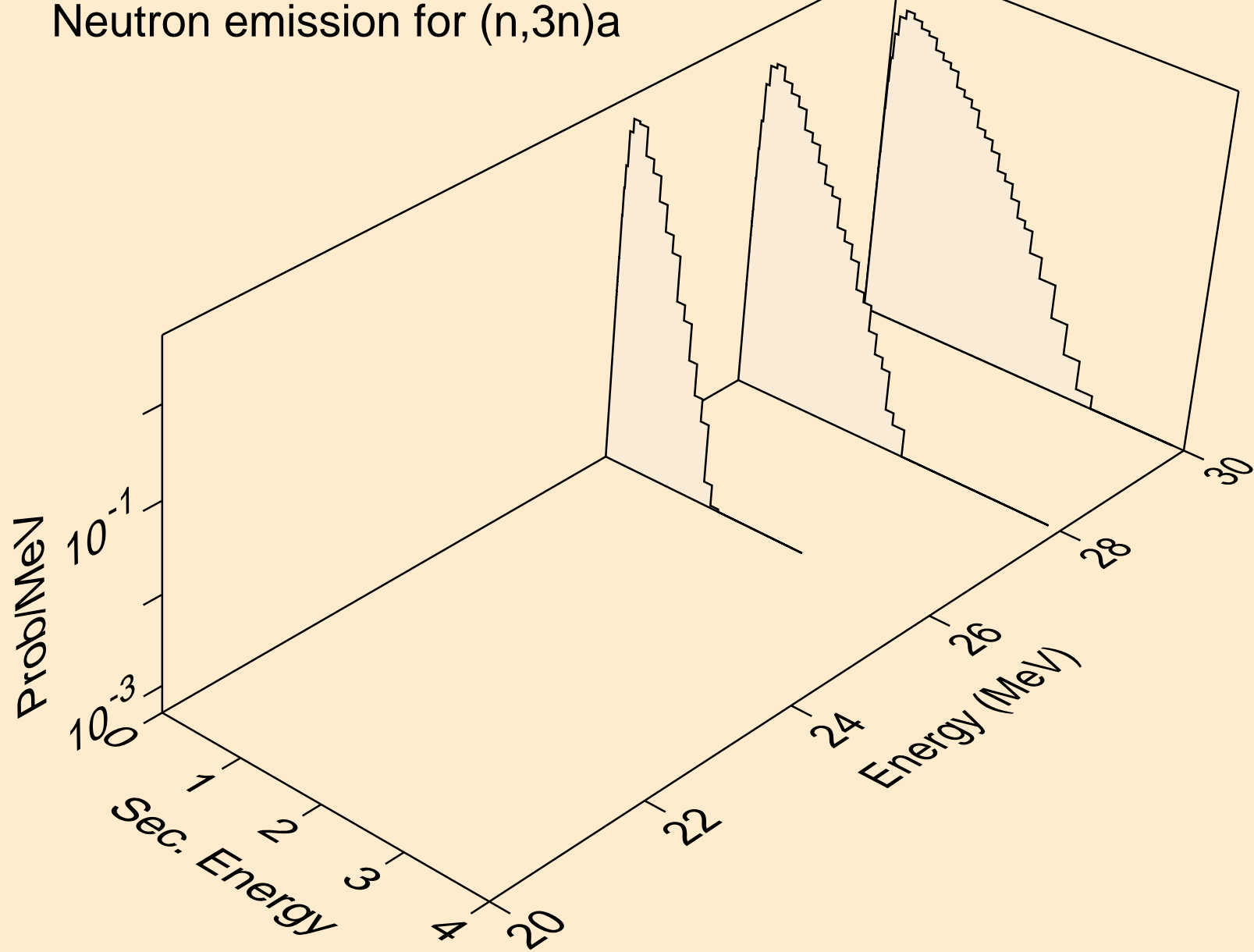
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Neutron emission for (n,n\*)a



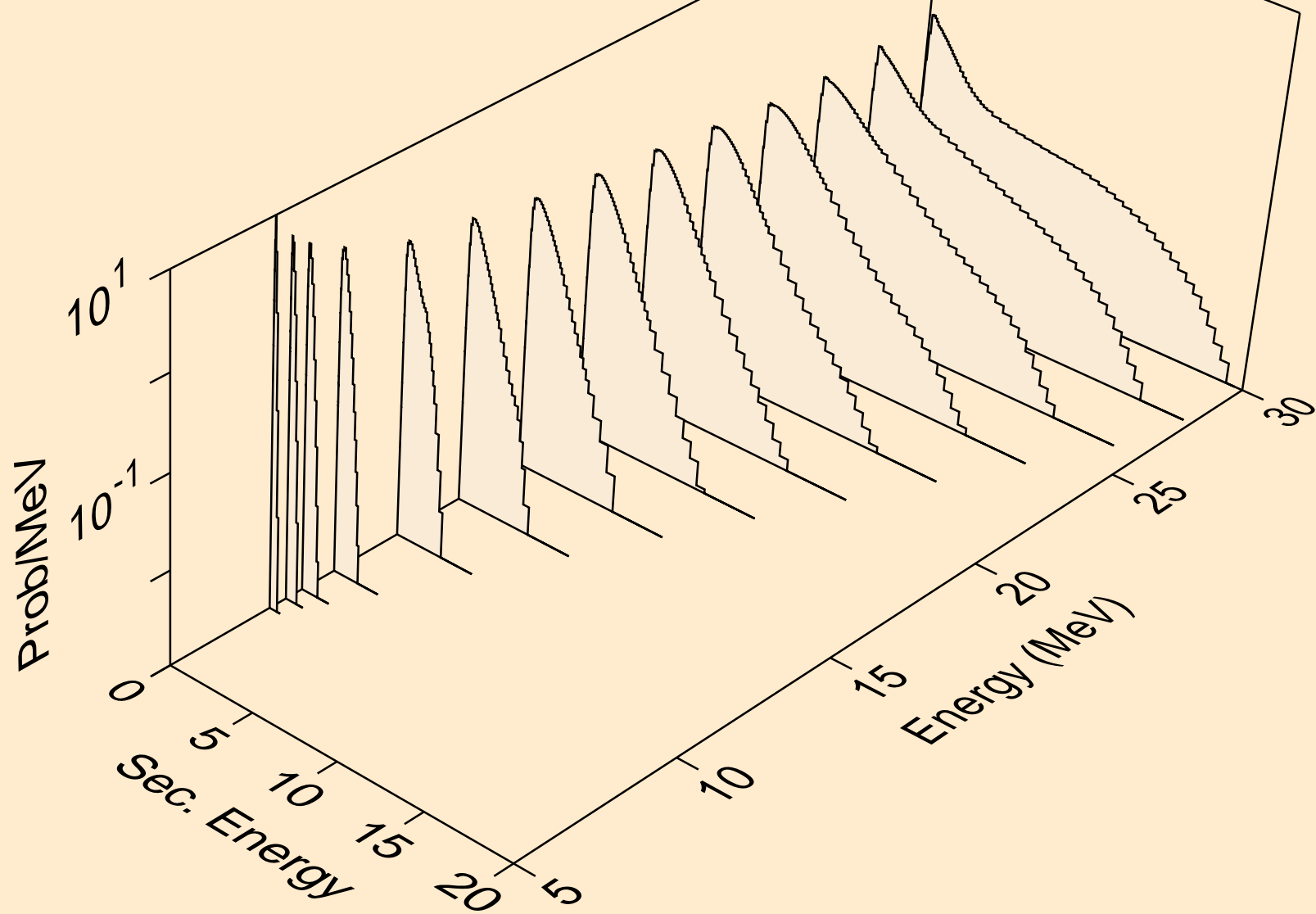
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Neutron emission for (n,2n)a



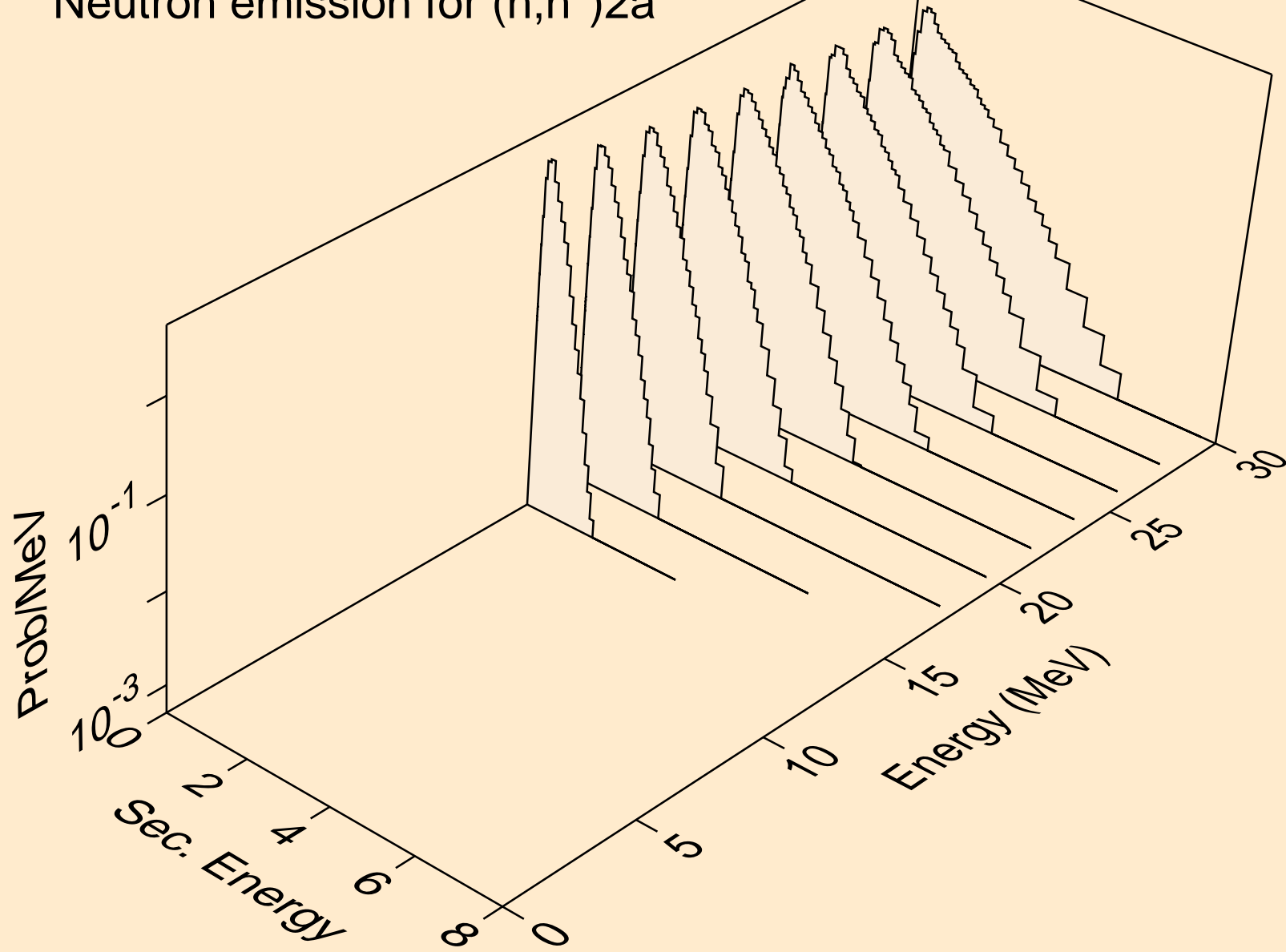
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Neutron emission for (n,3n)a



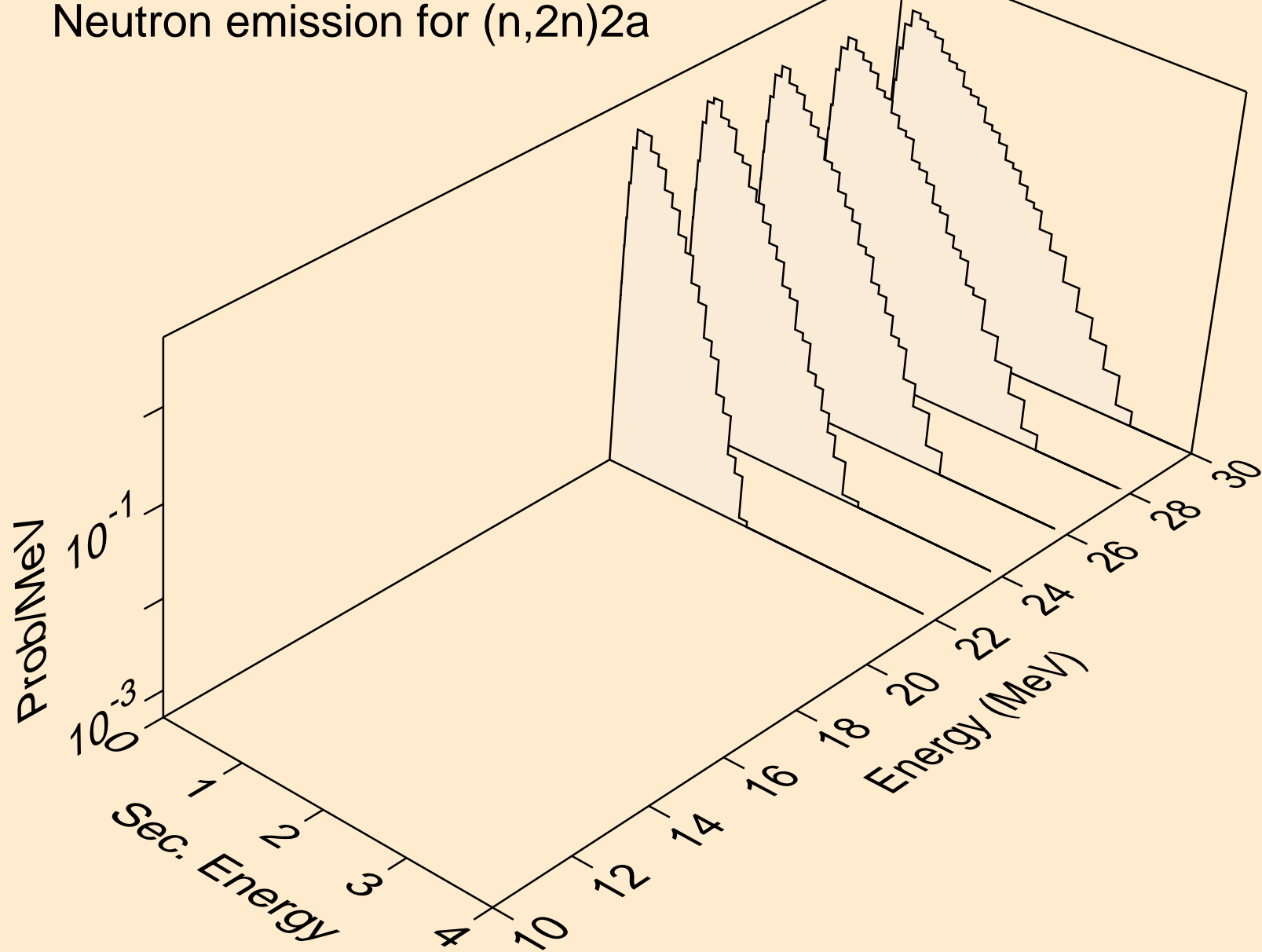
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Neutron emission for (n,n\*)p



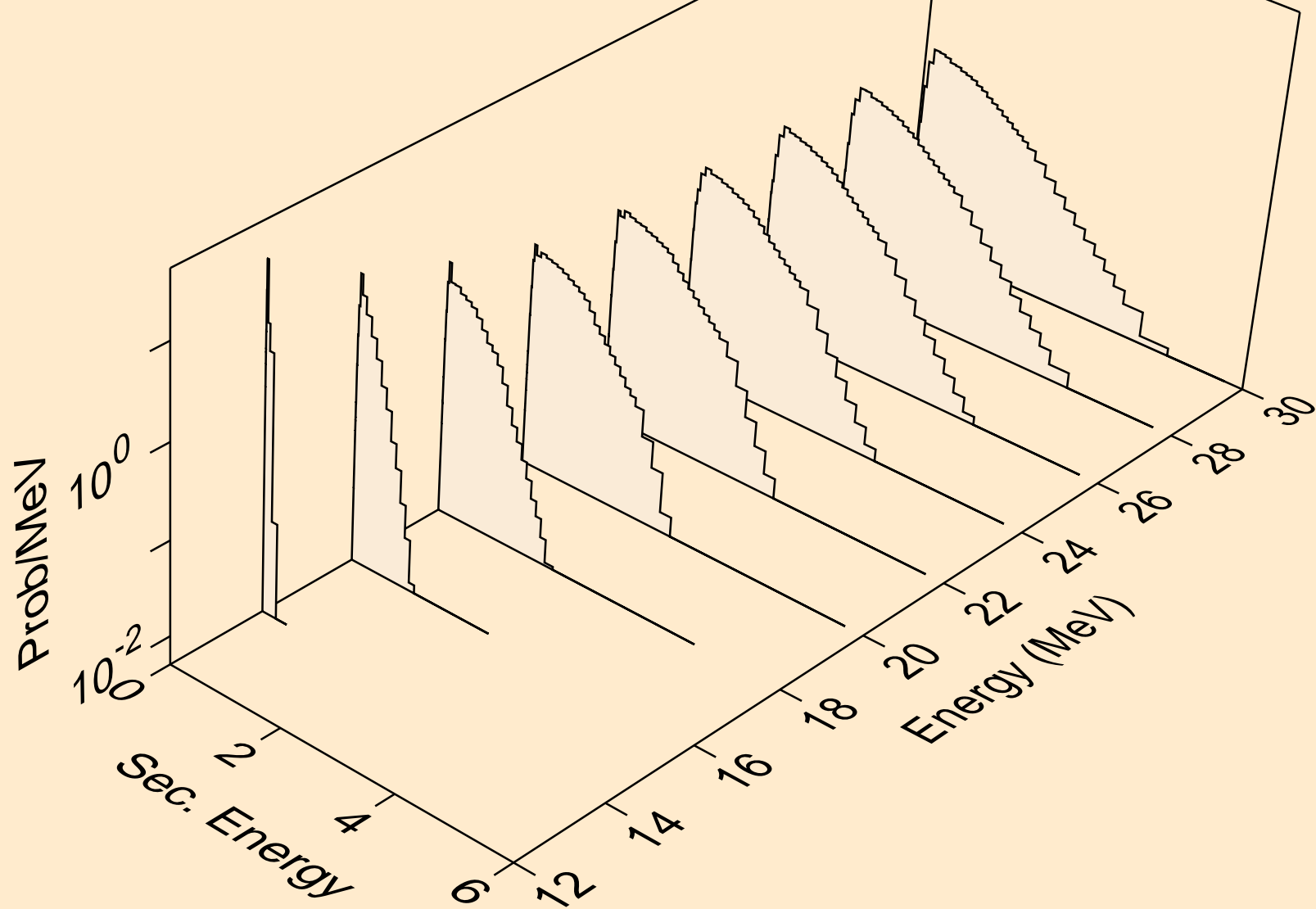
SN111 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,n\*)2a



SN111 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,2n)2a

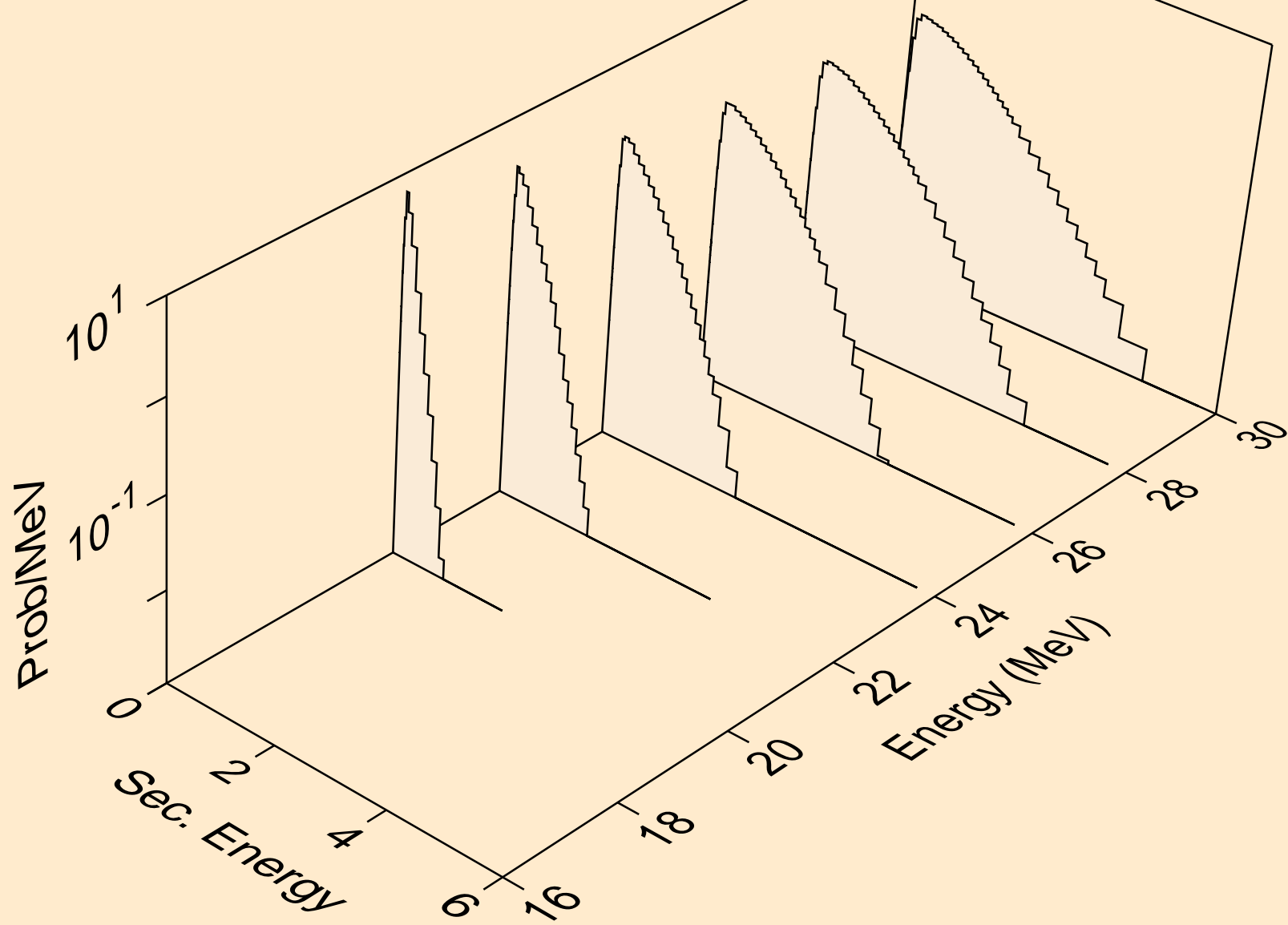


SN111 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,n\*)d

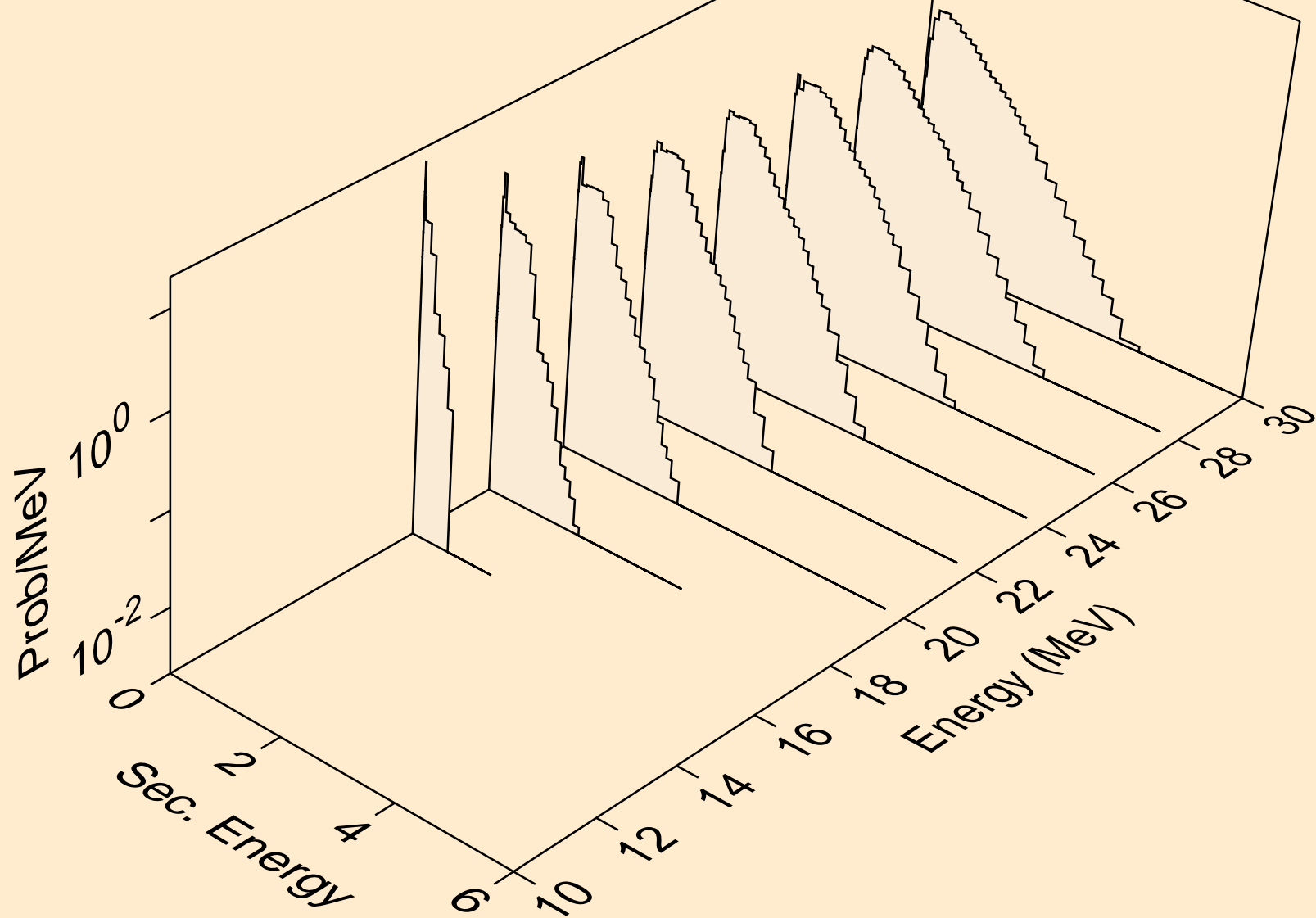




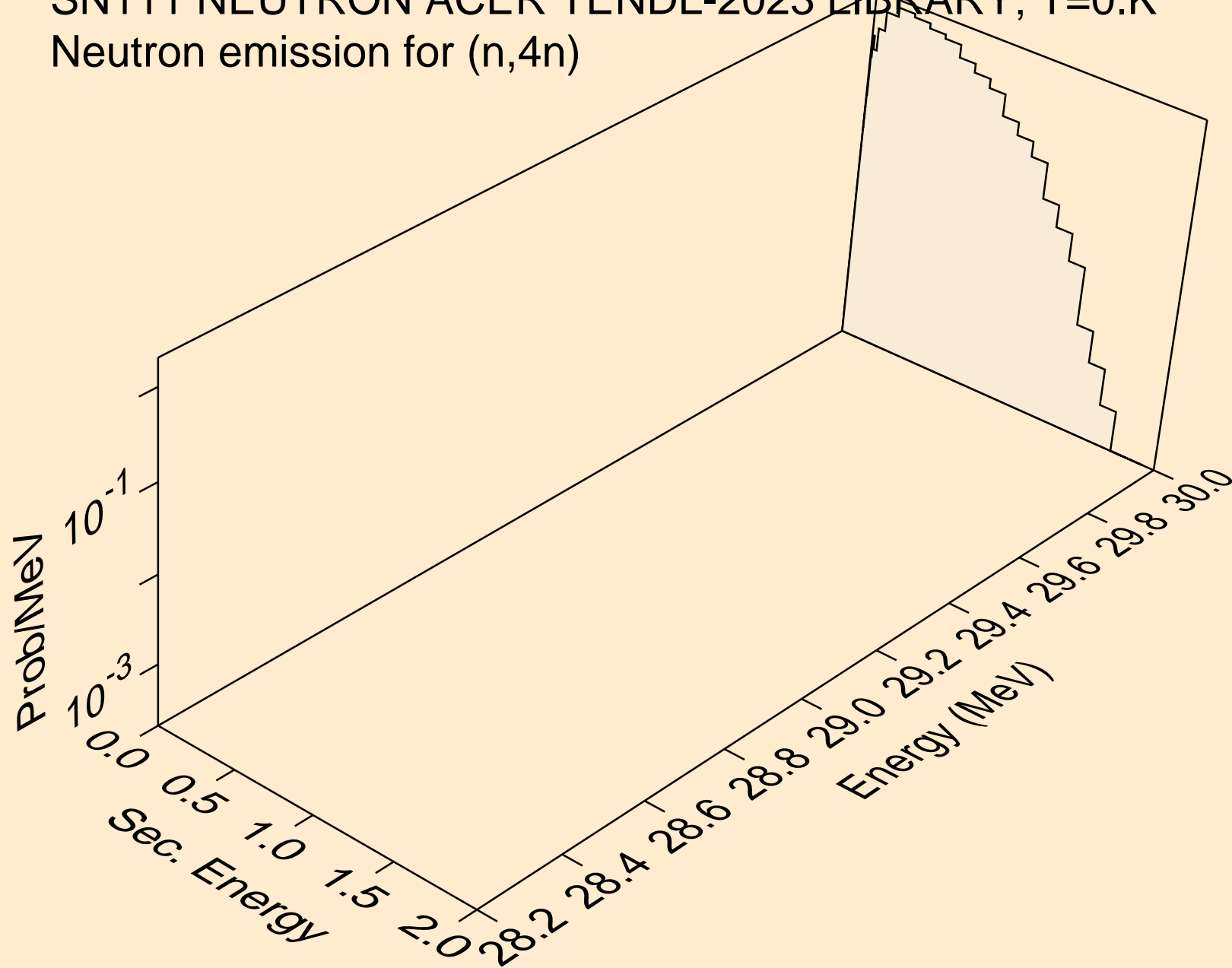
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Neutron emission for (n,n\*)t



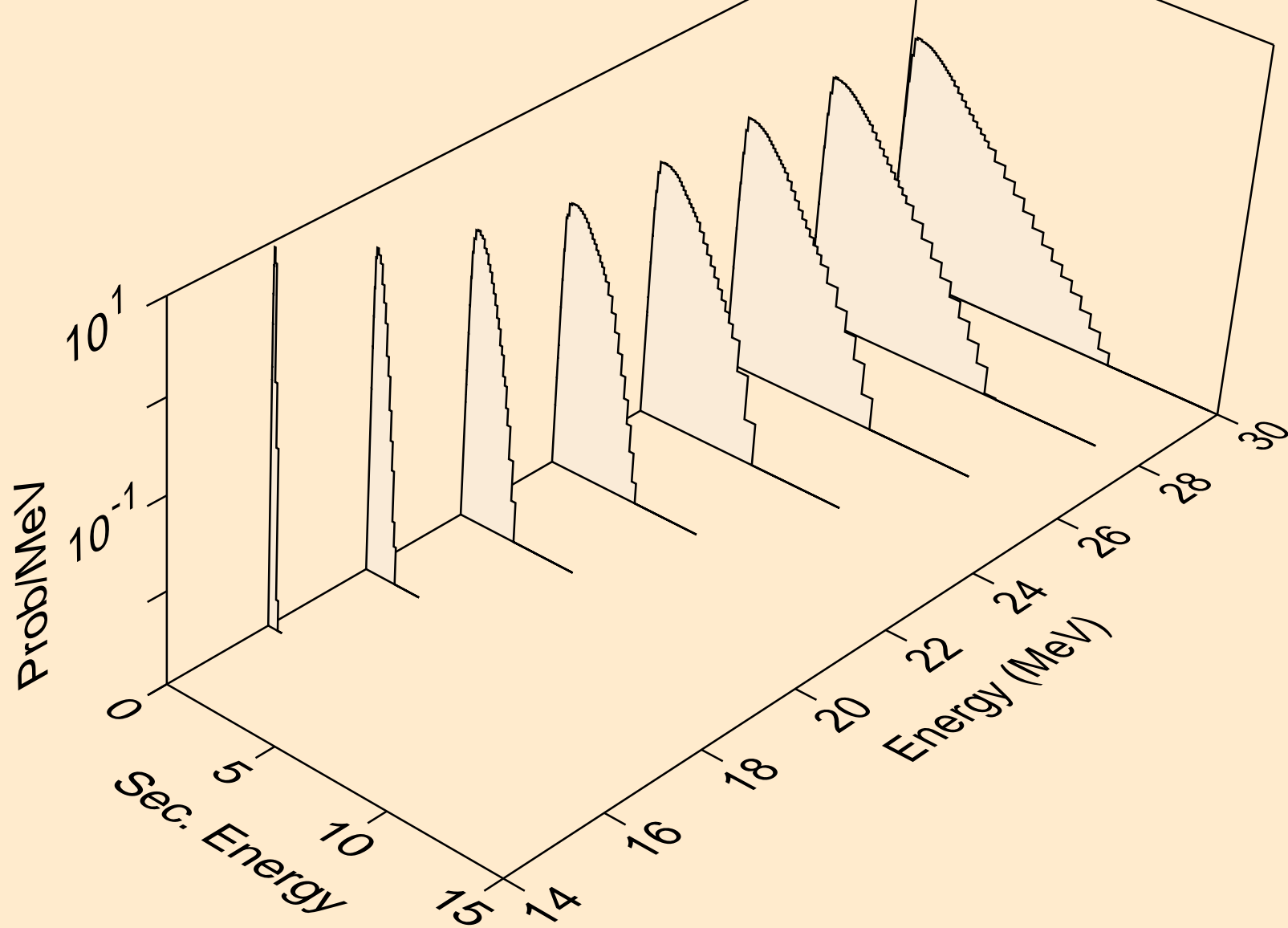
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Neutron emission for (n,n\*)he3



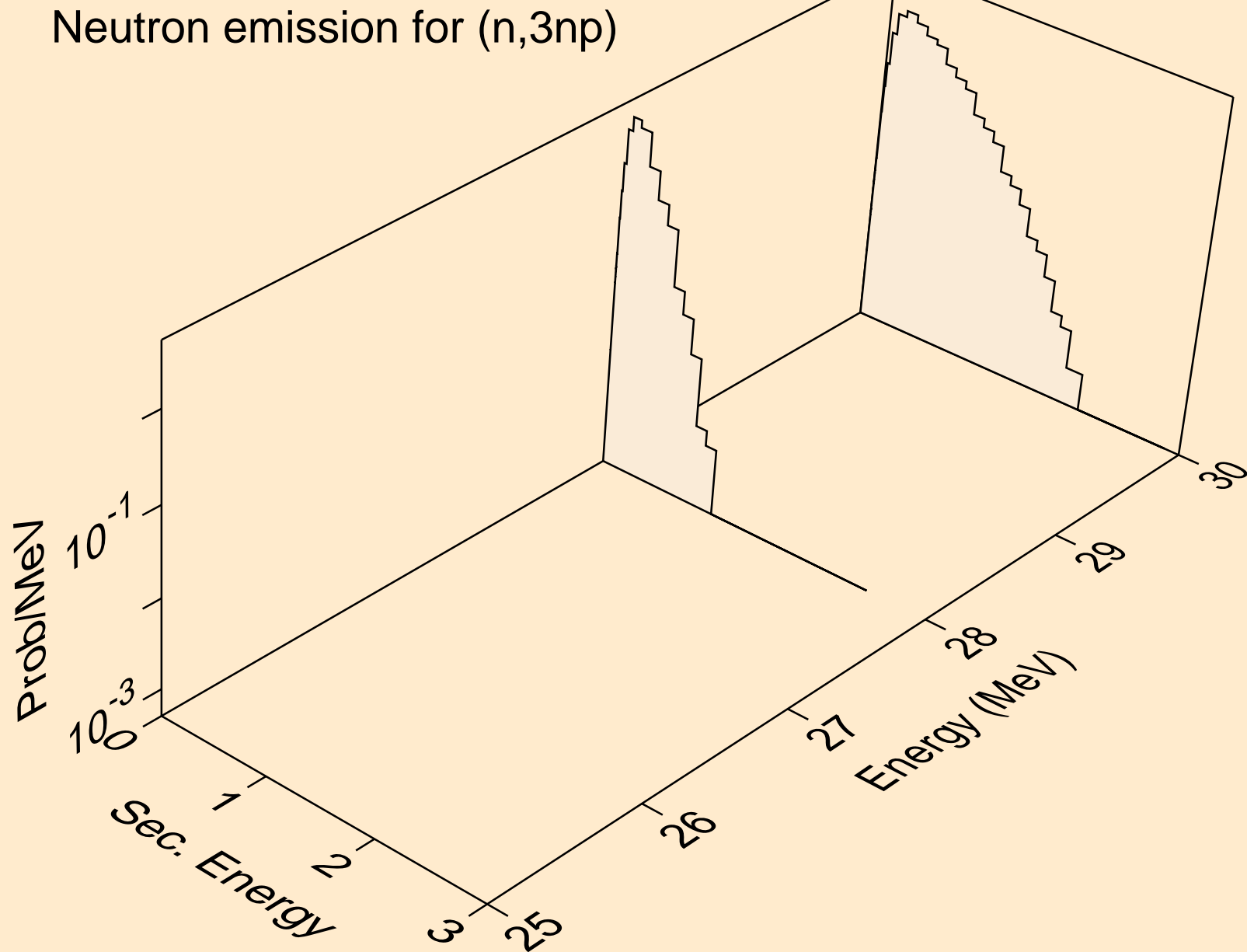
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Neutron emission for (n,4n)



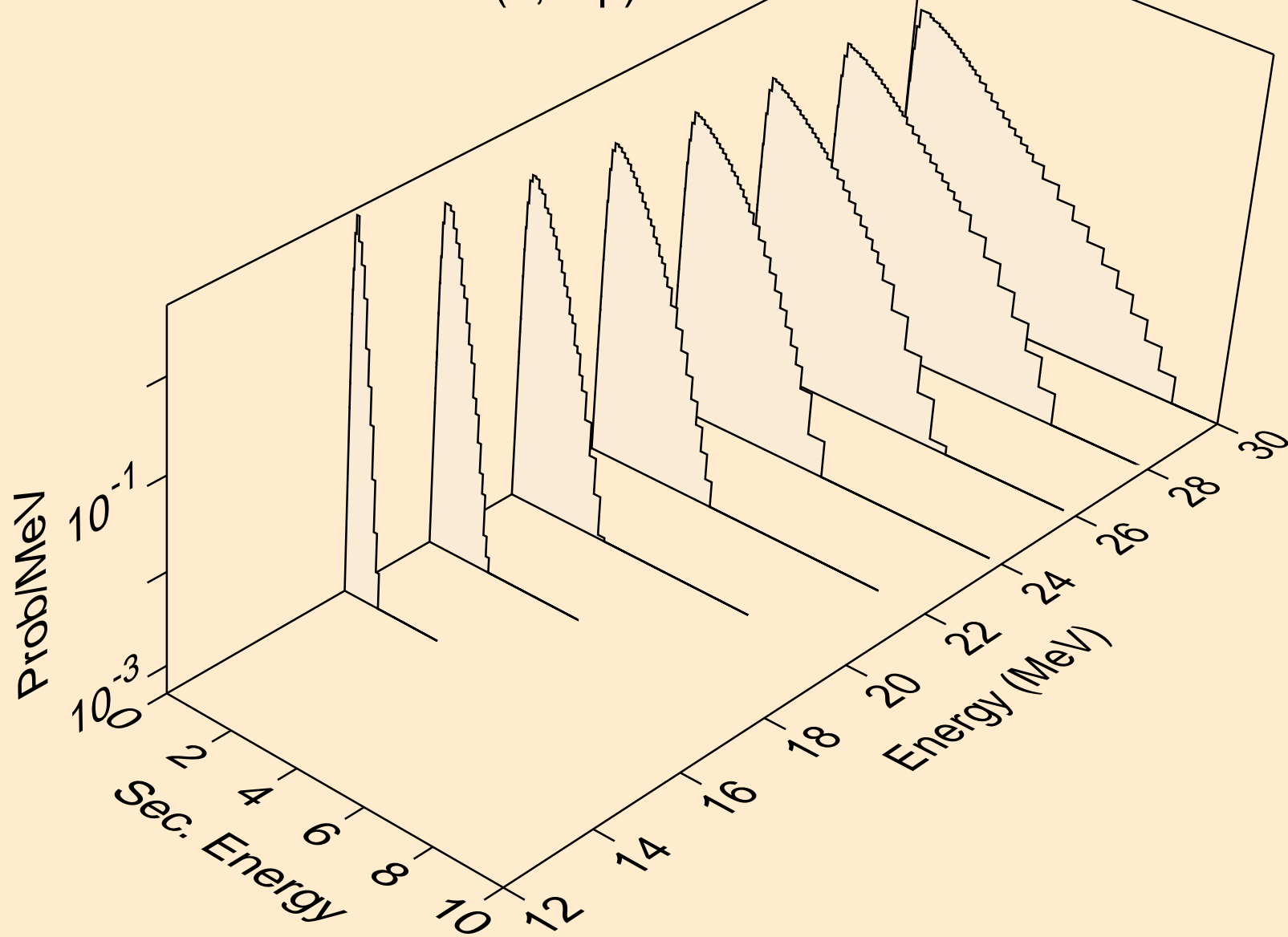
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Neutron emission for (n,2np)



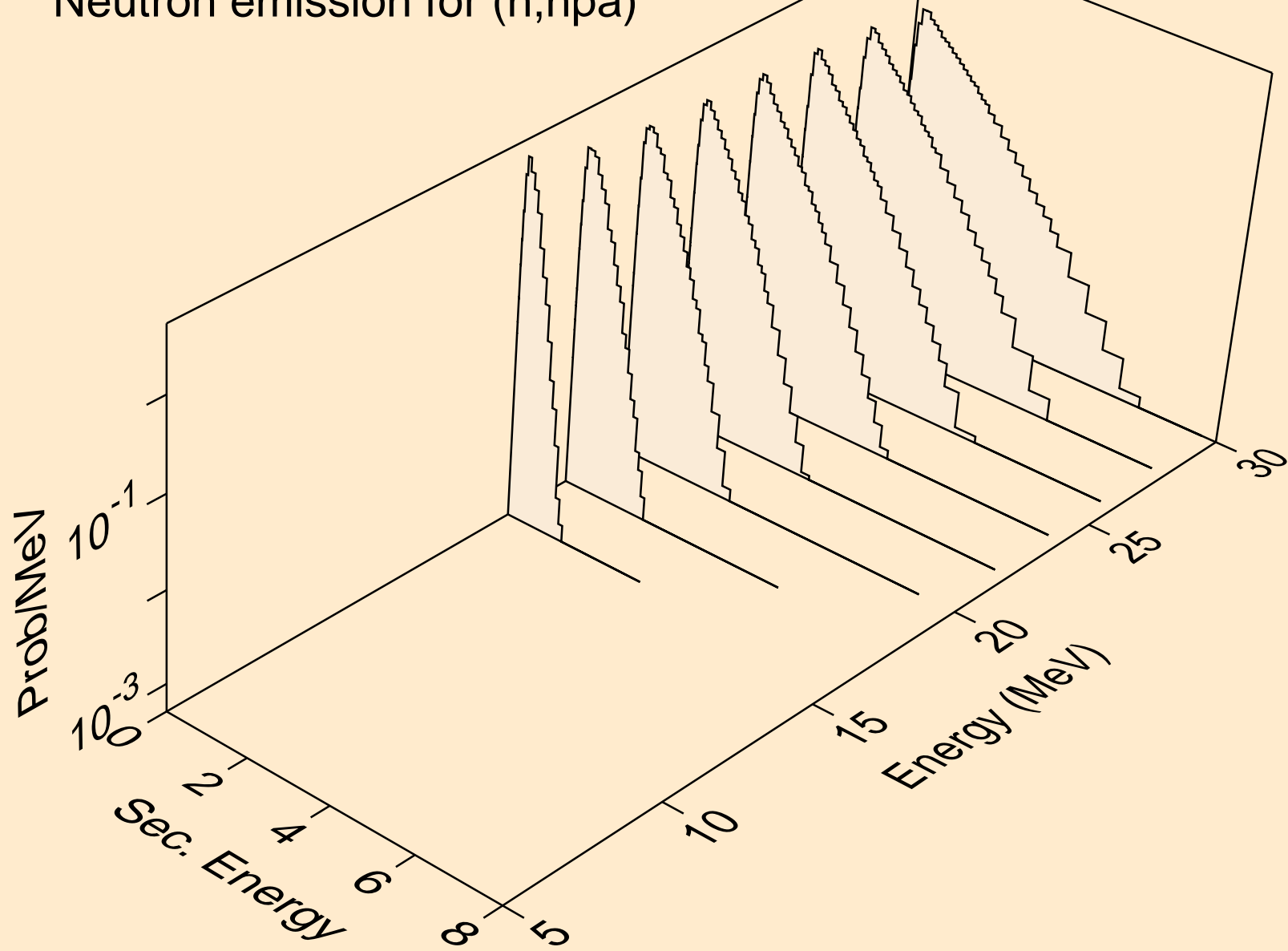
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Neutron emission for (n,3np)



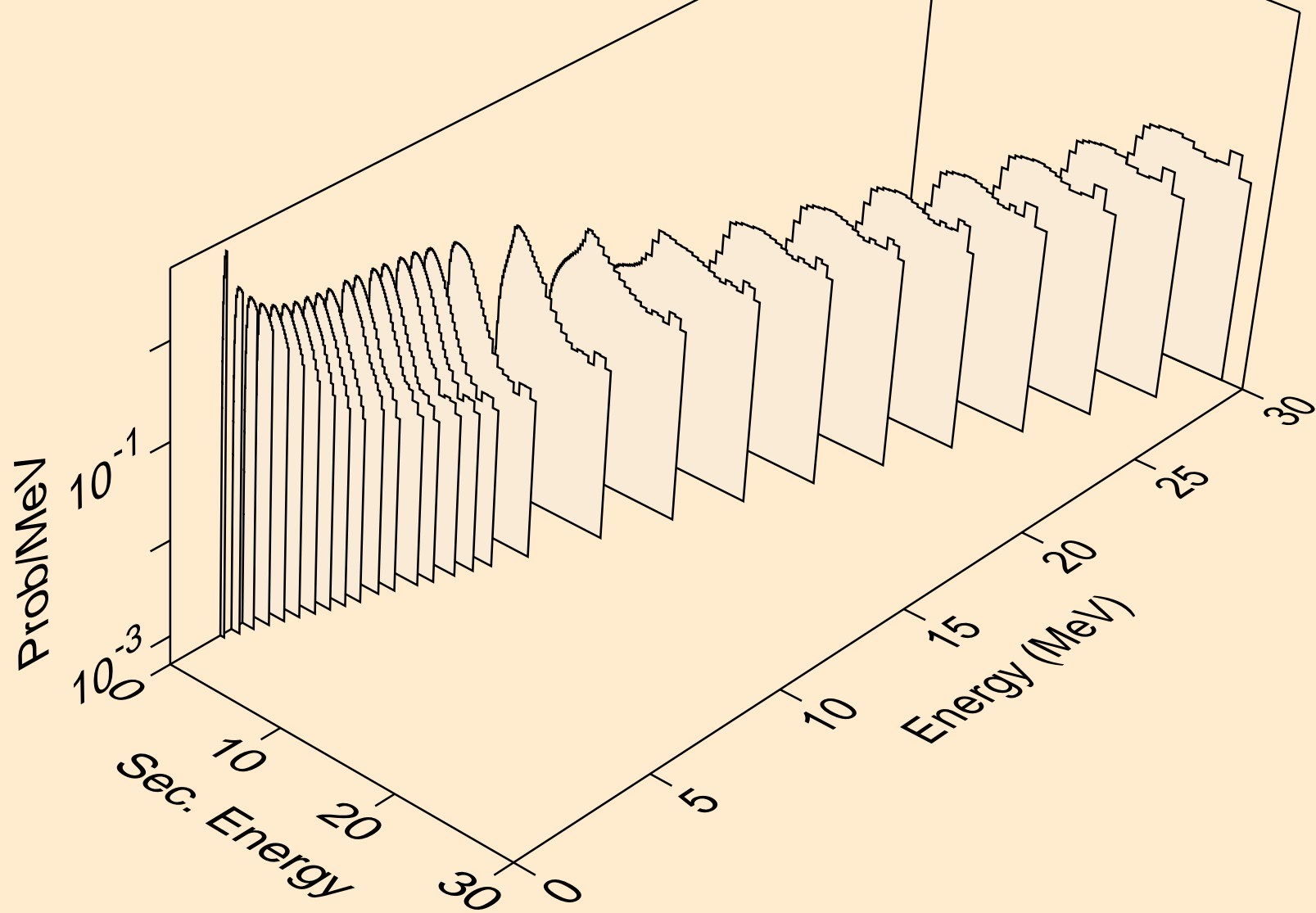
SN111 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,n2p)



SN111 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,npa)

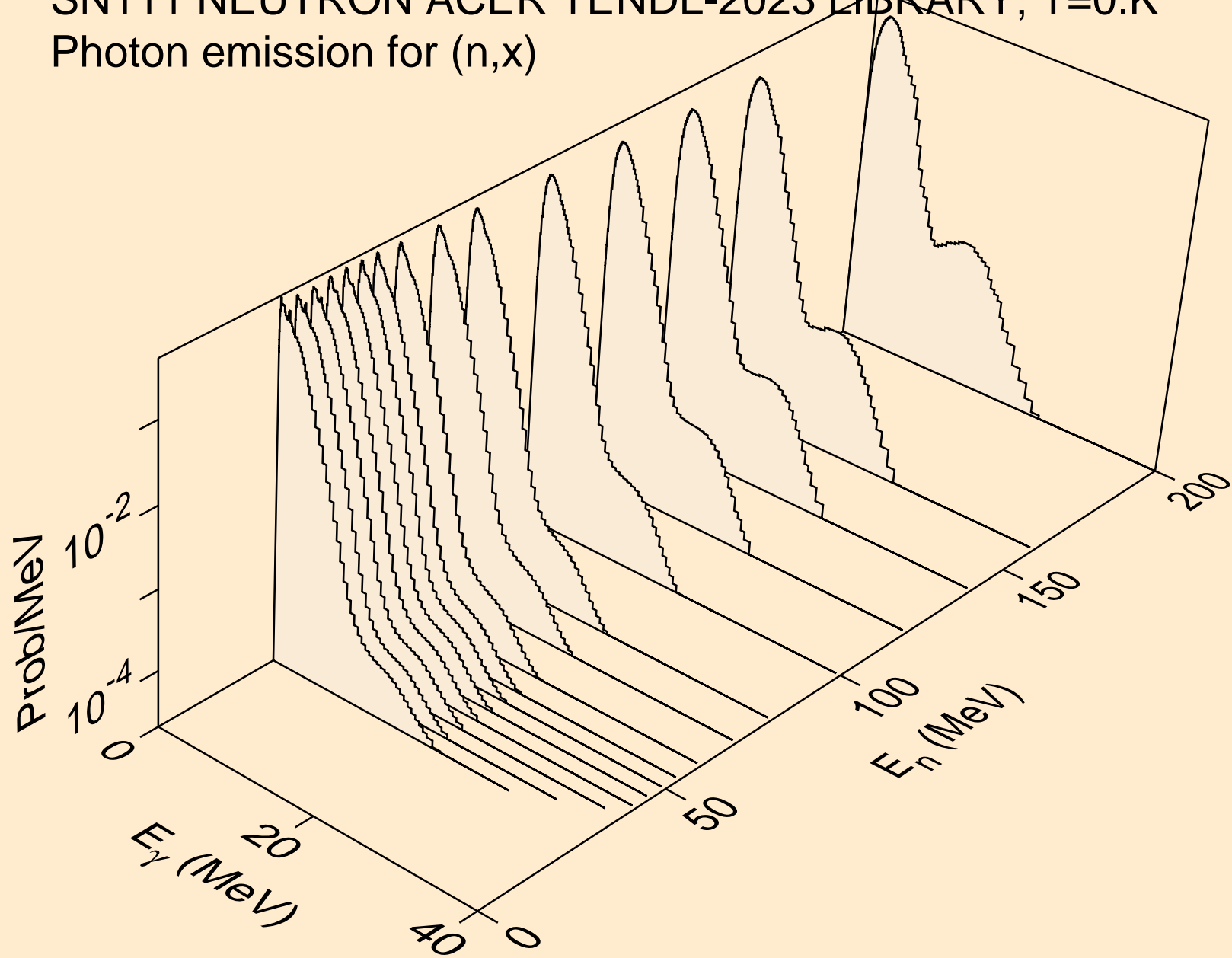


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Neutron emission for (n,n\*c)

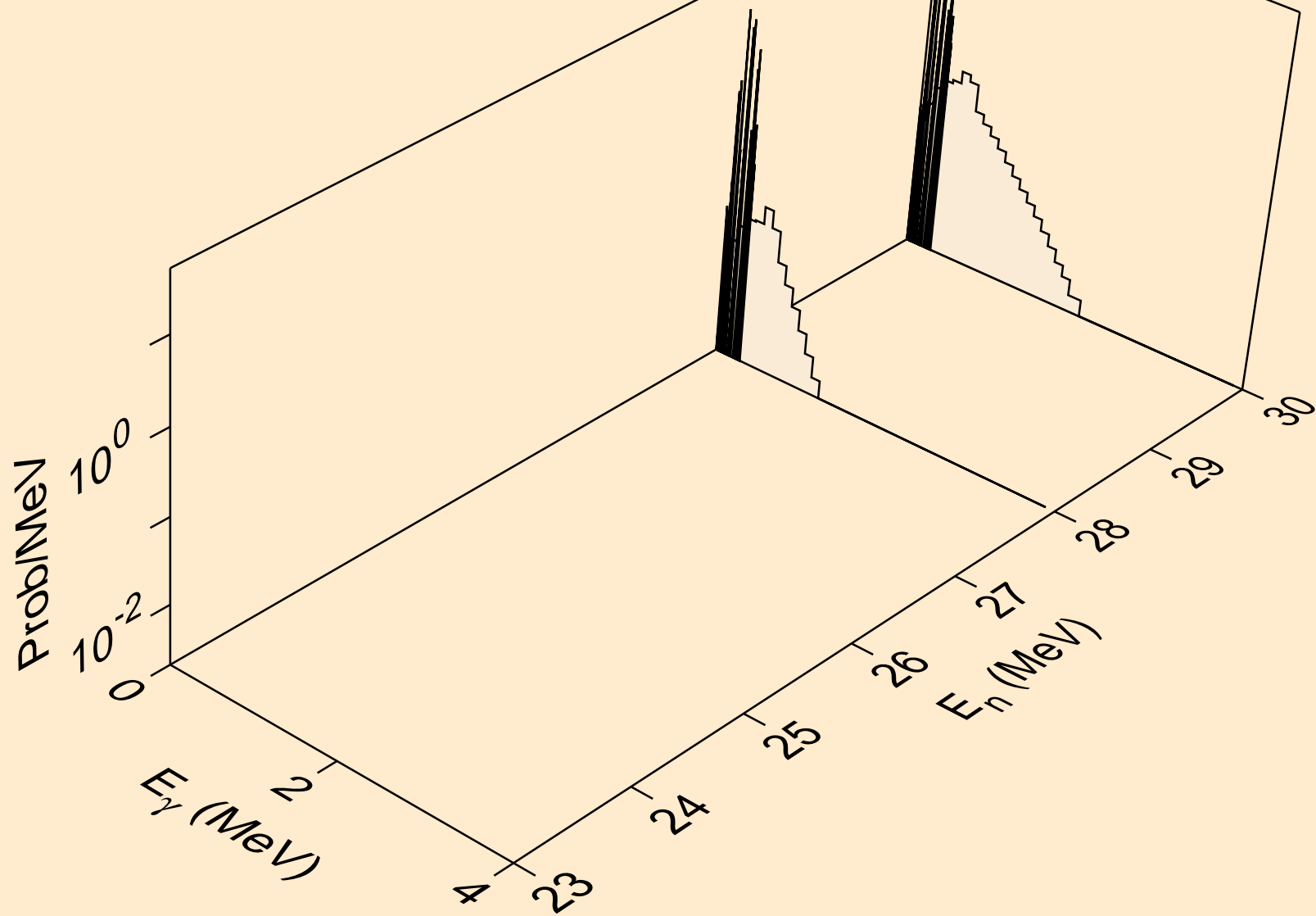




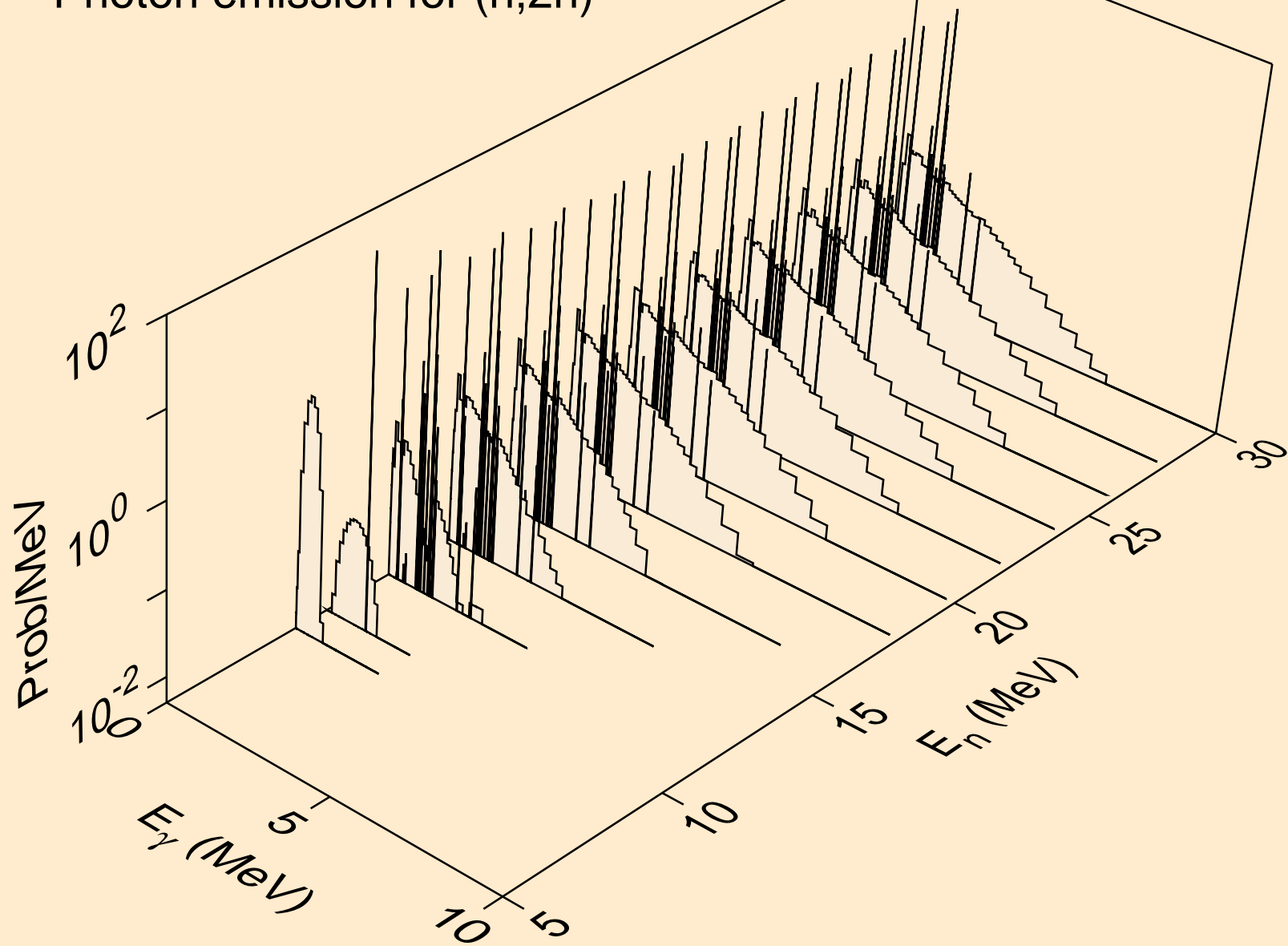
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Photon emission for (n,x)



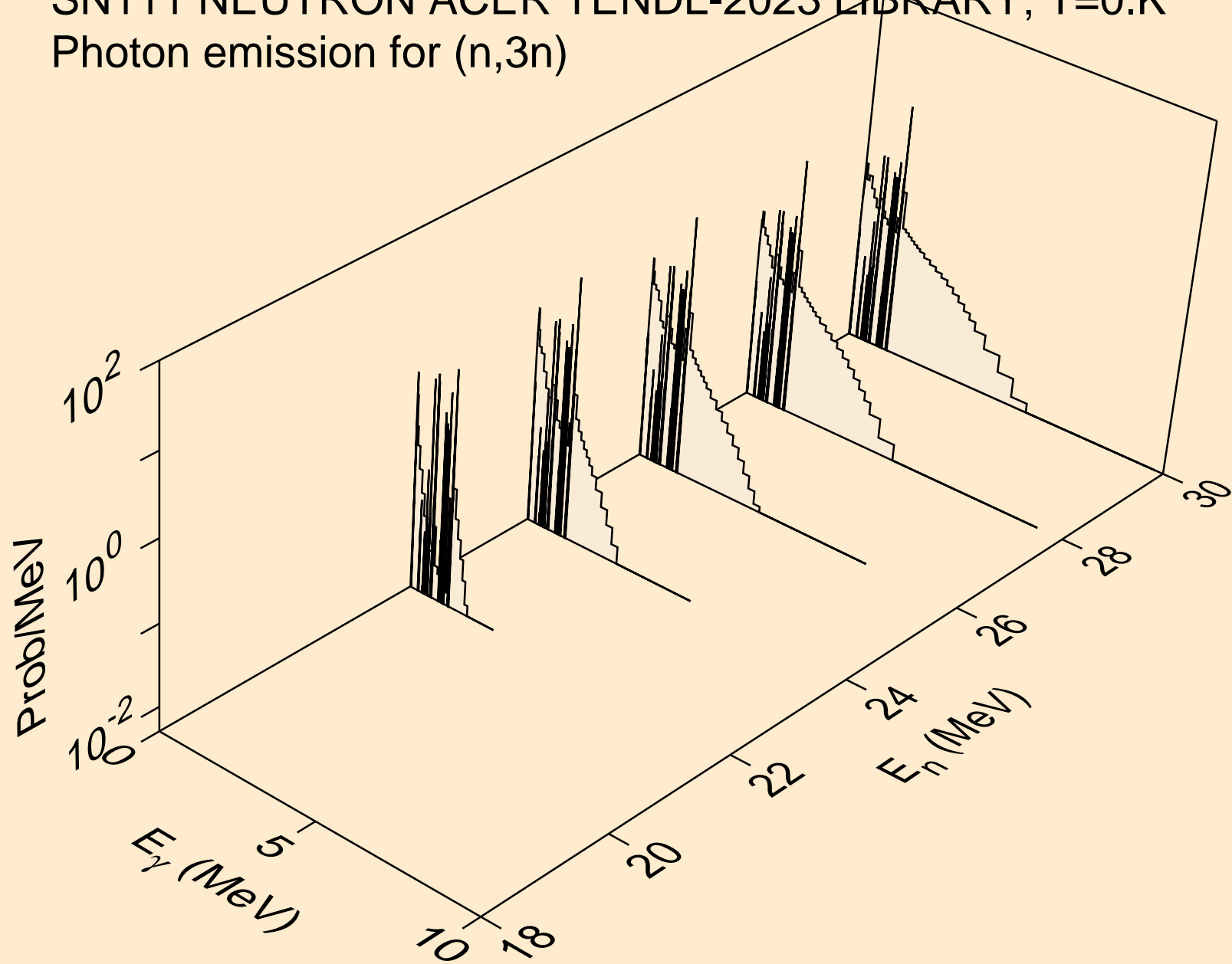
SN111 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2nd)



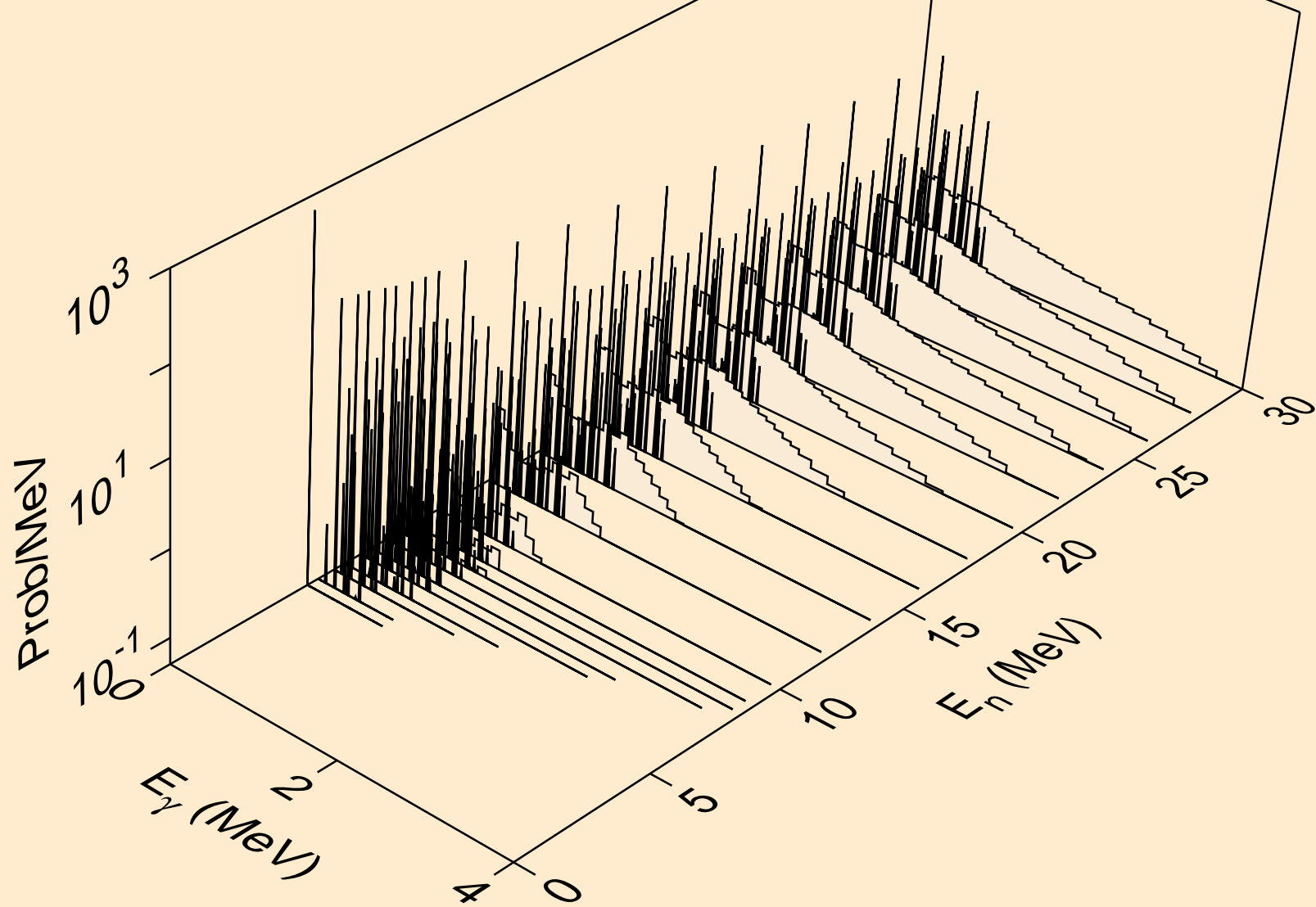
SN111 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2n)



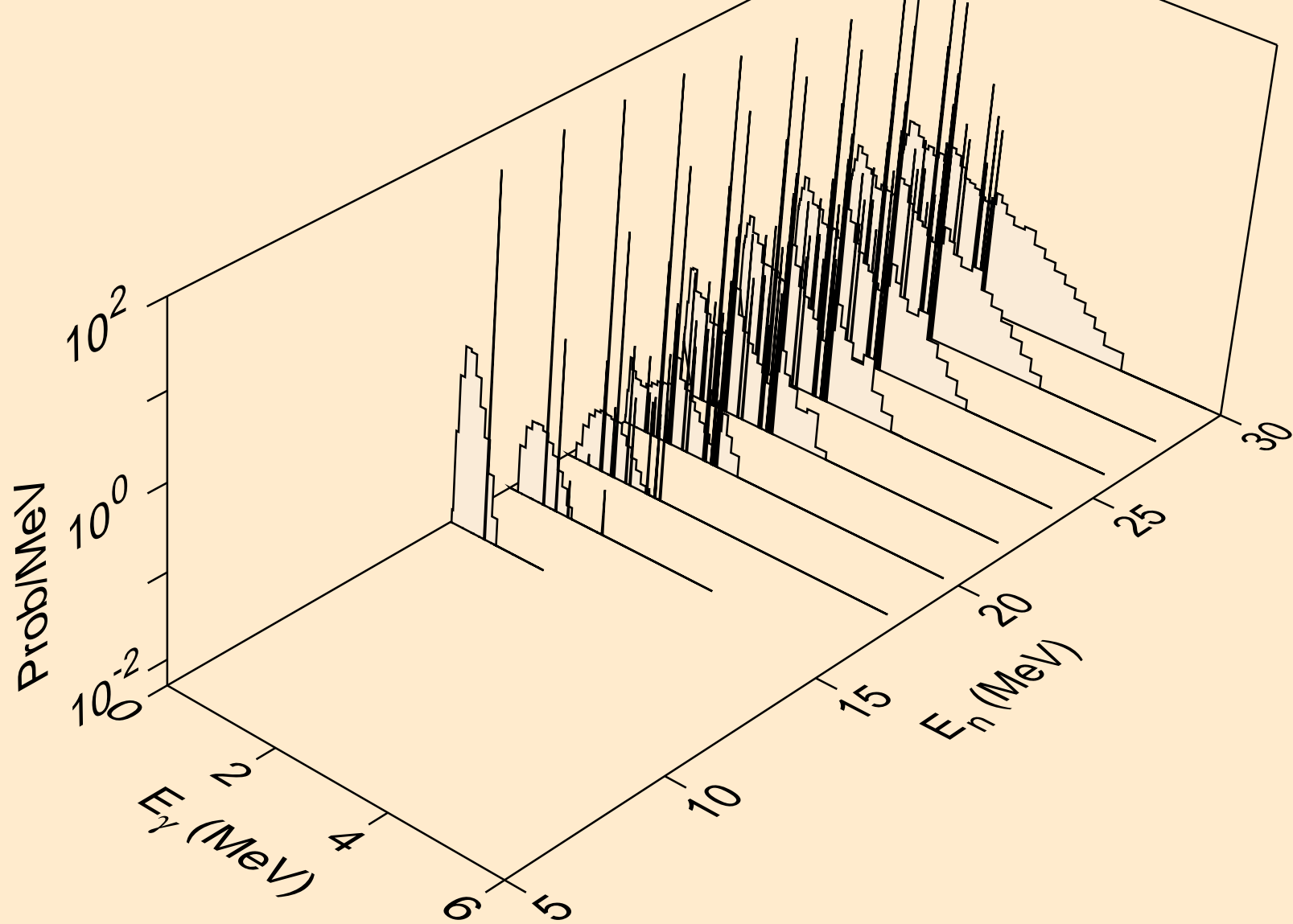
SN111 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,3n)



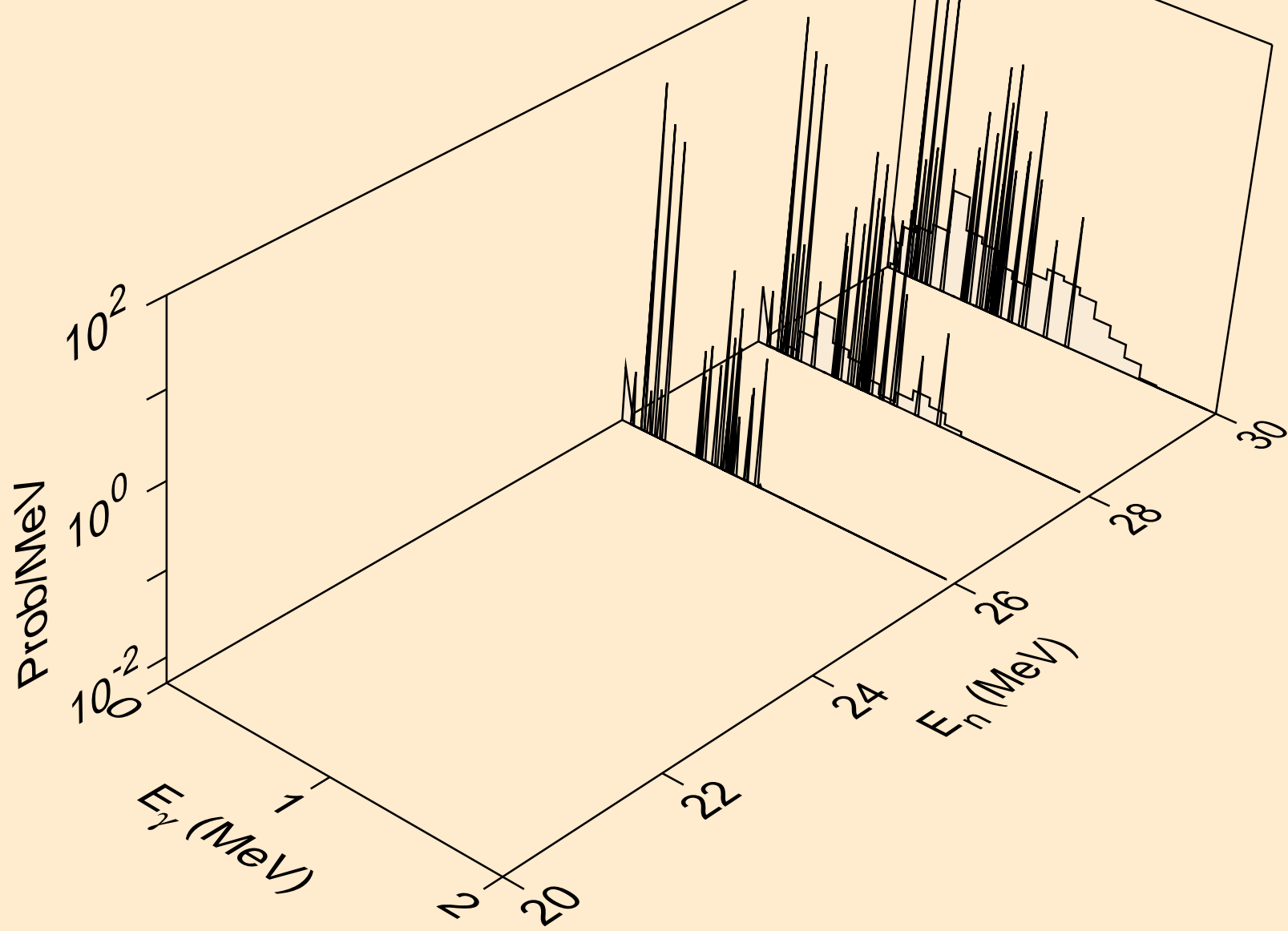
SN111 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)a



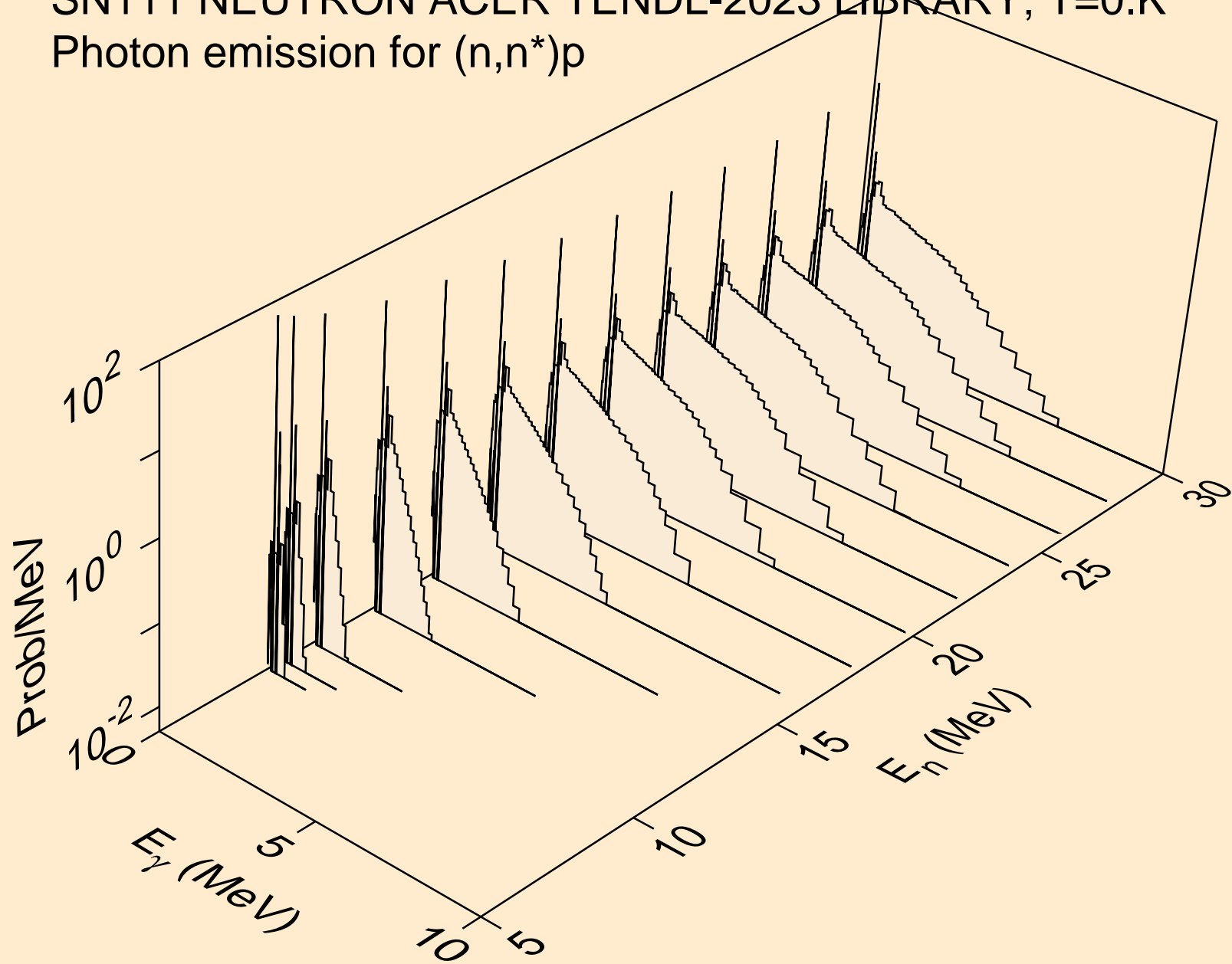
SN111 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2n)a



SN111 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,3n)a

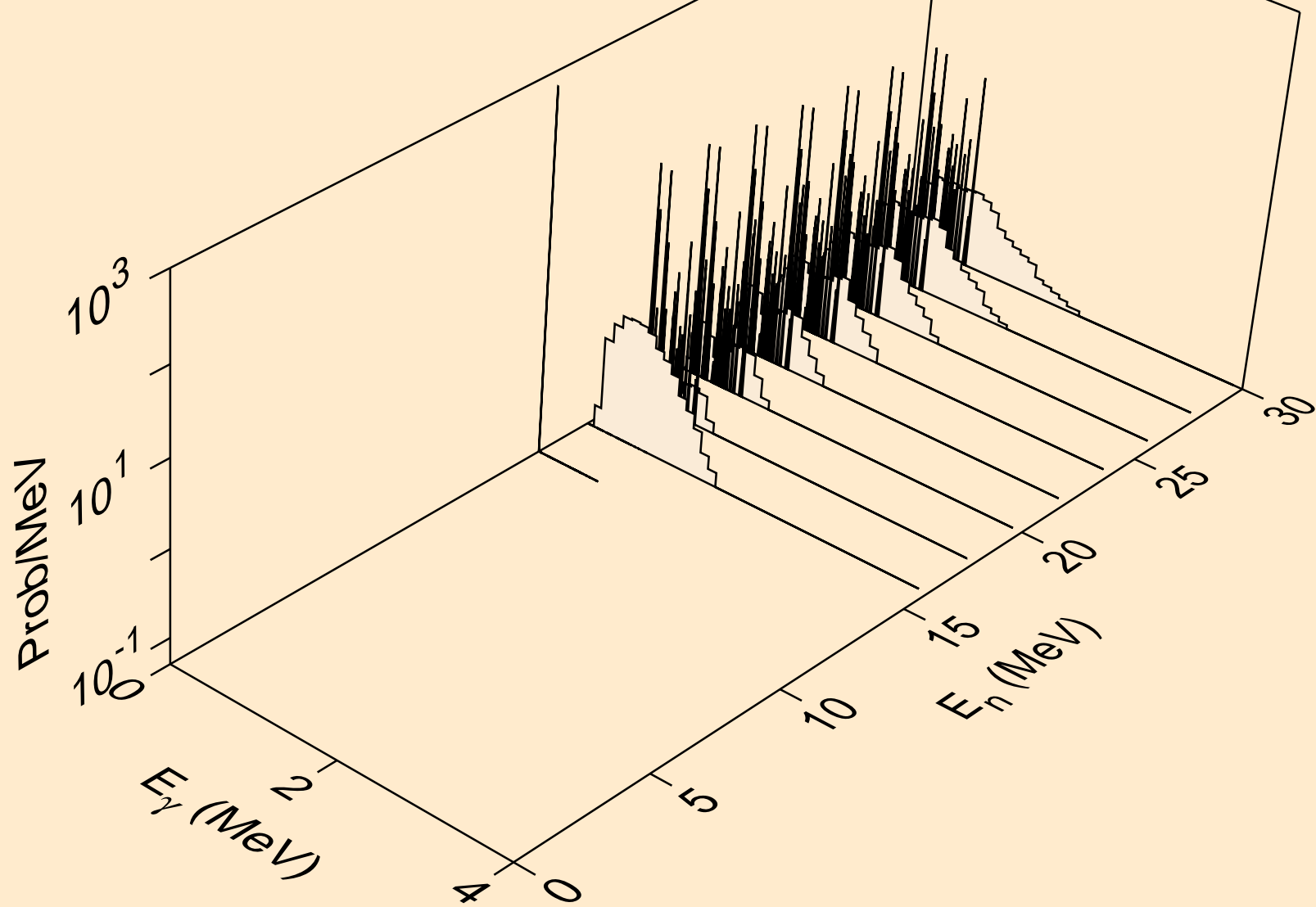


SN111 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)p

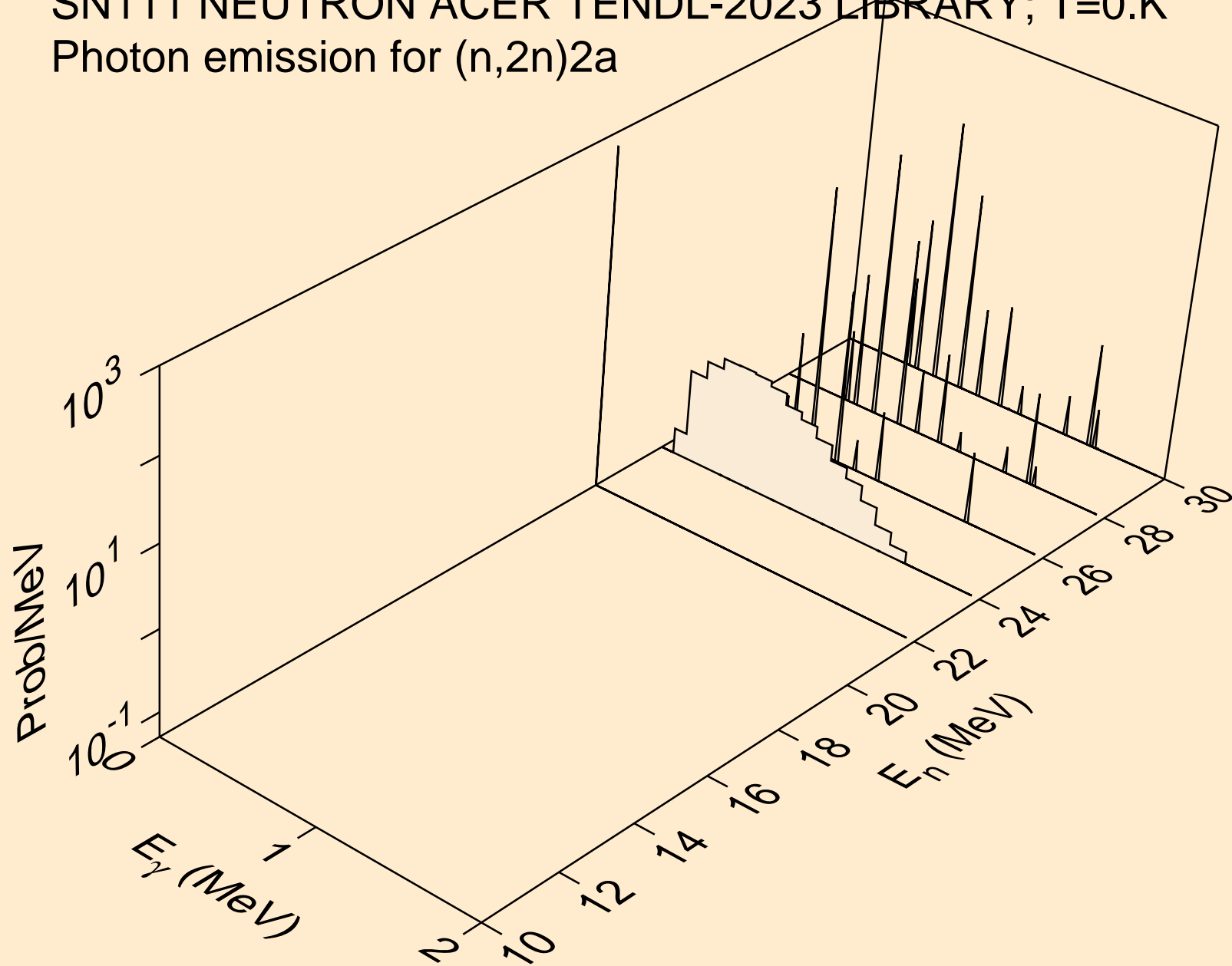




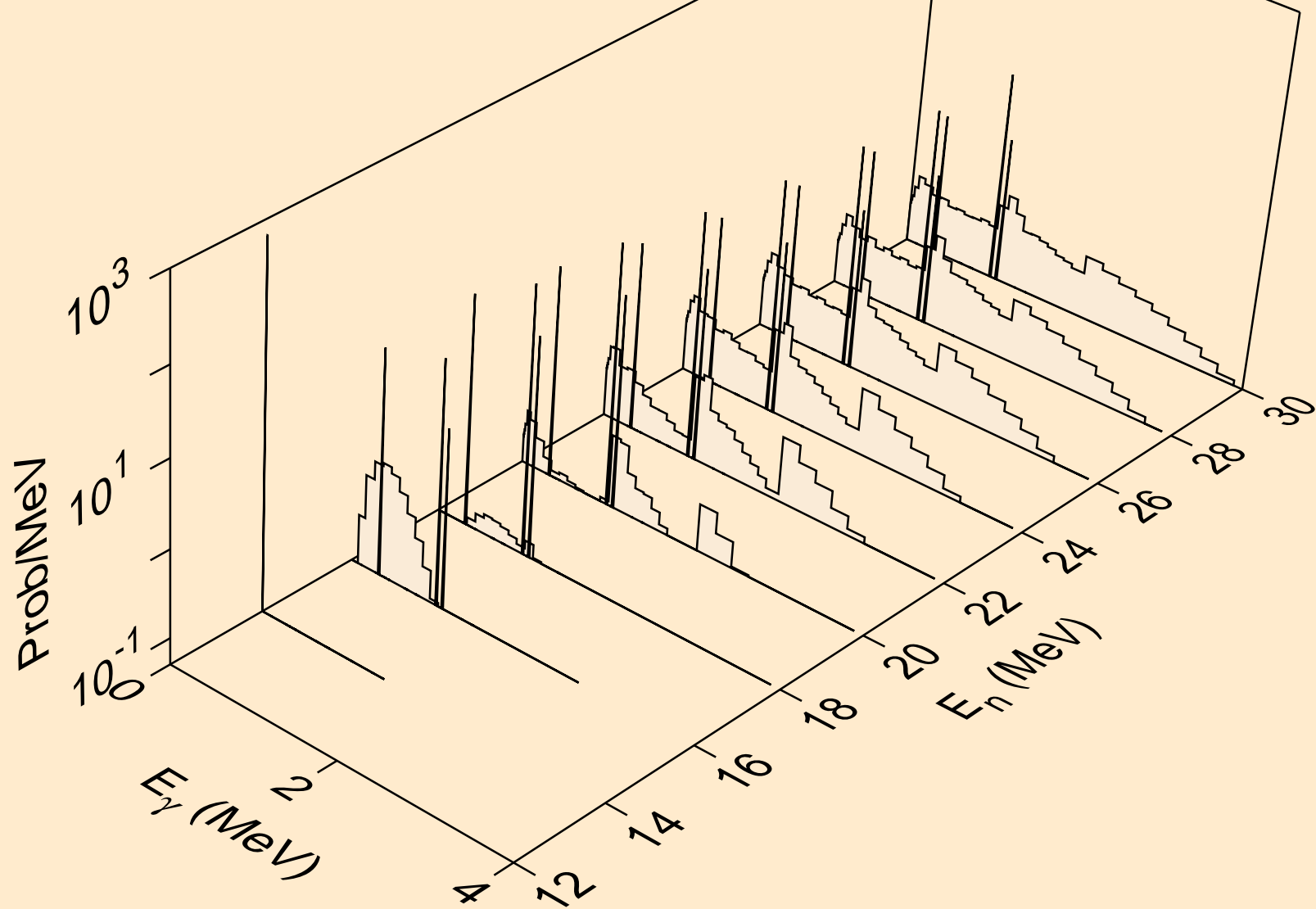
SN111 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)2a



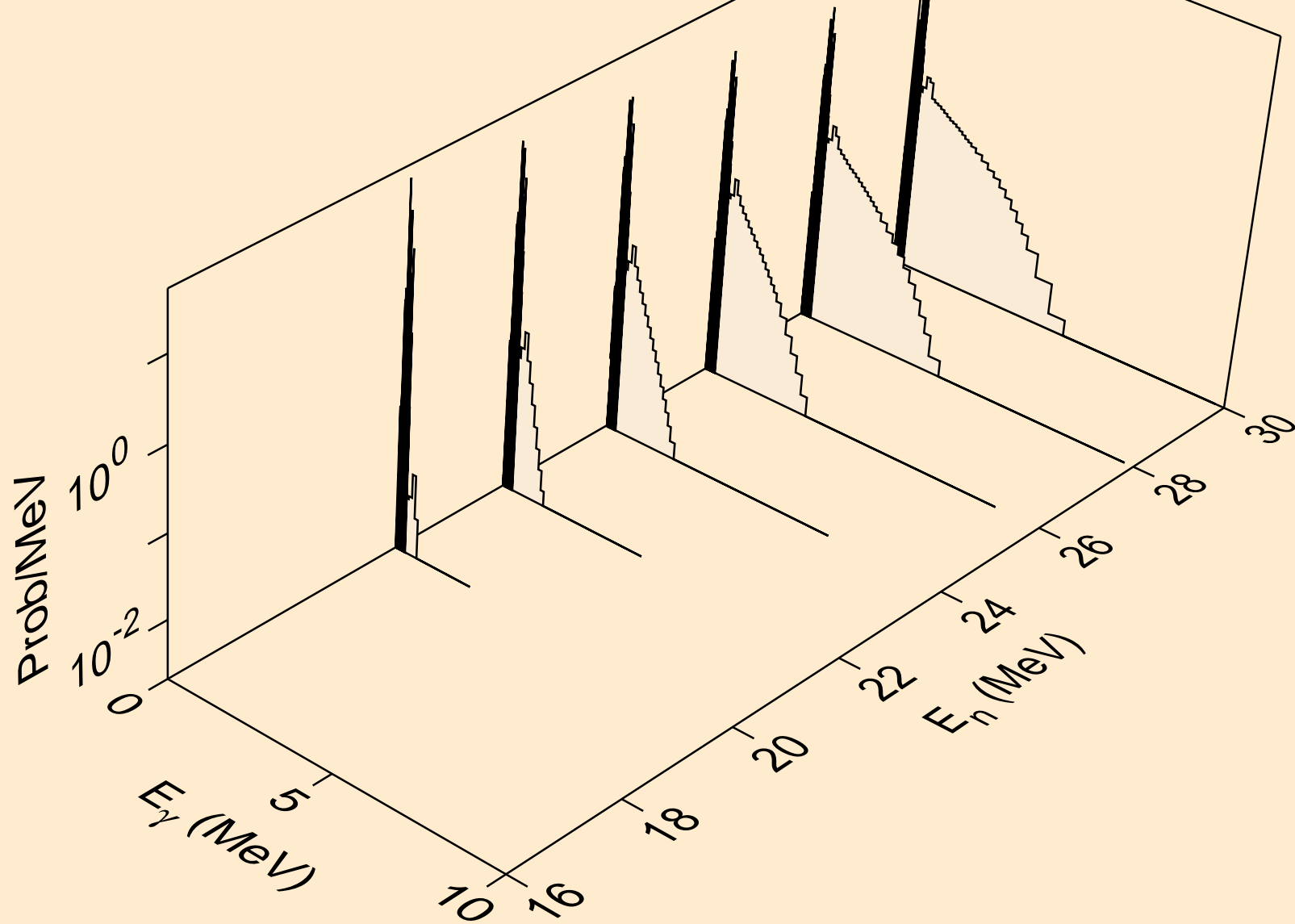
SN111 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2n)2a



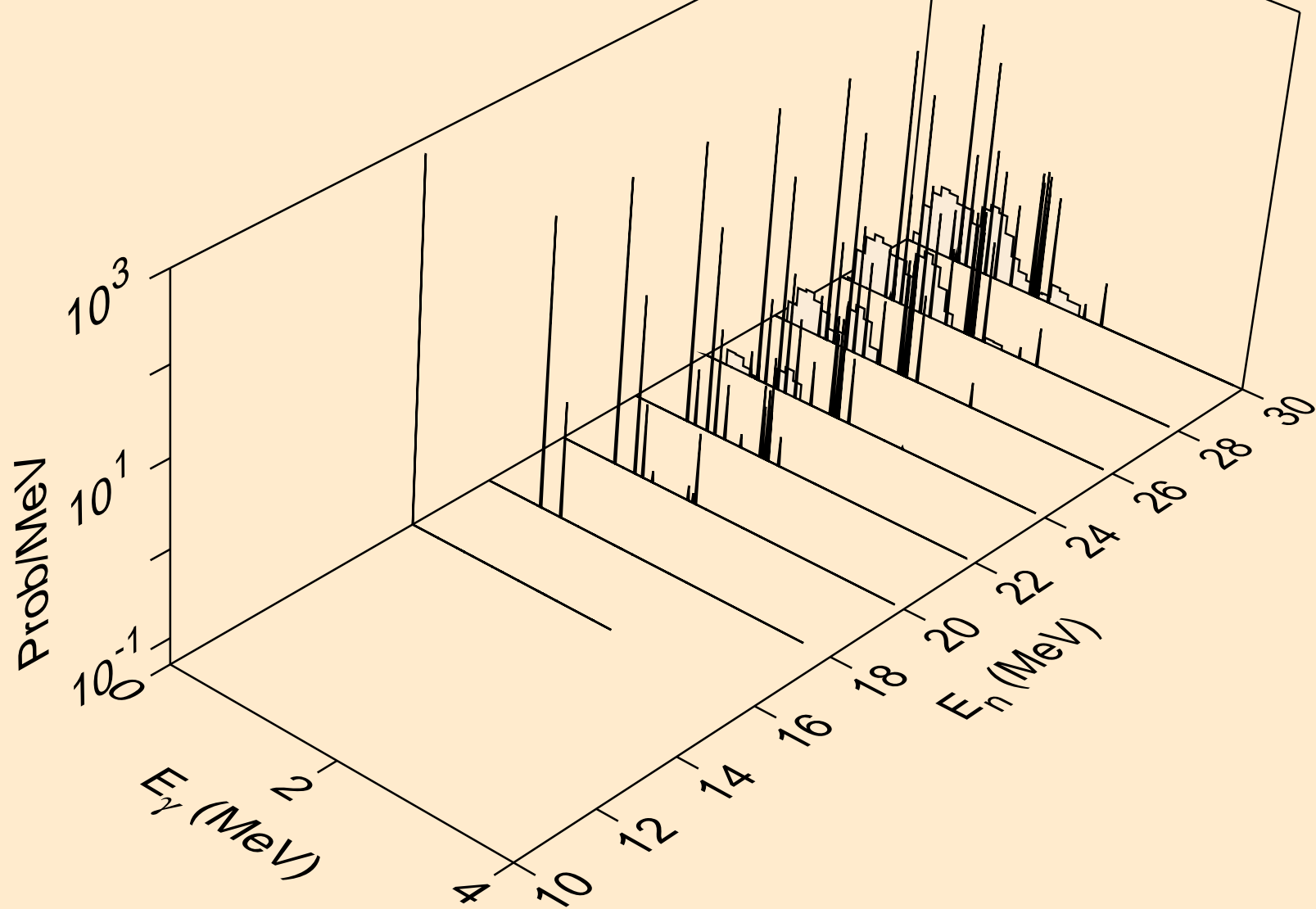
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Photon emission for (n,n\*)d



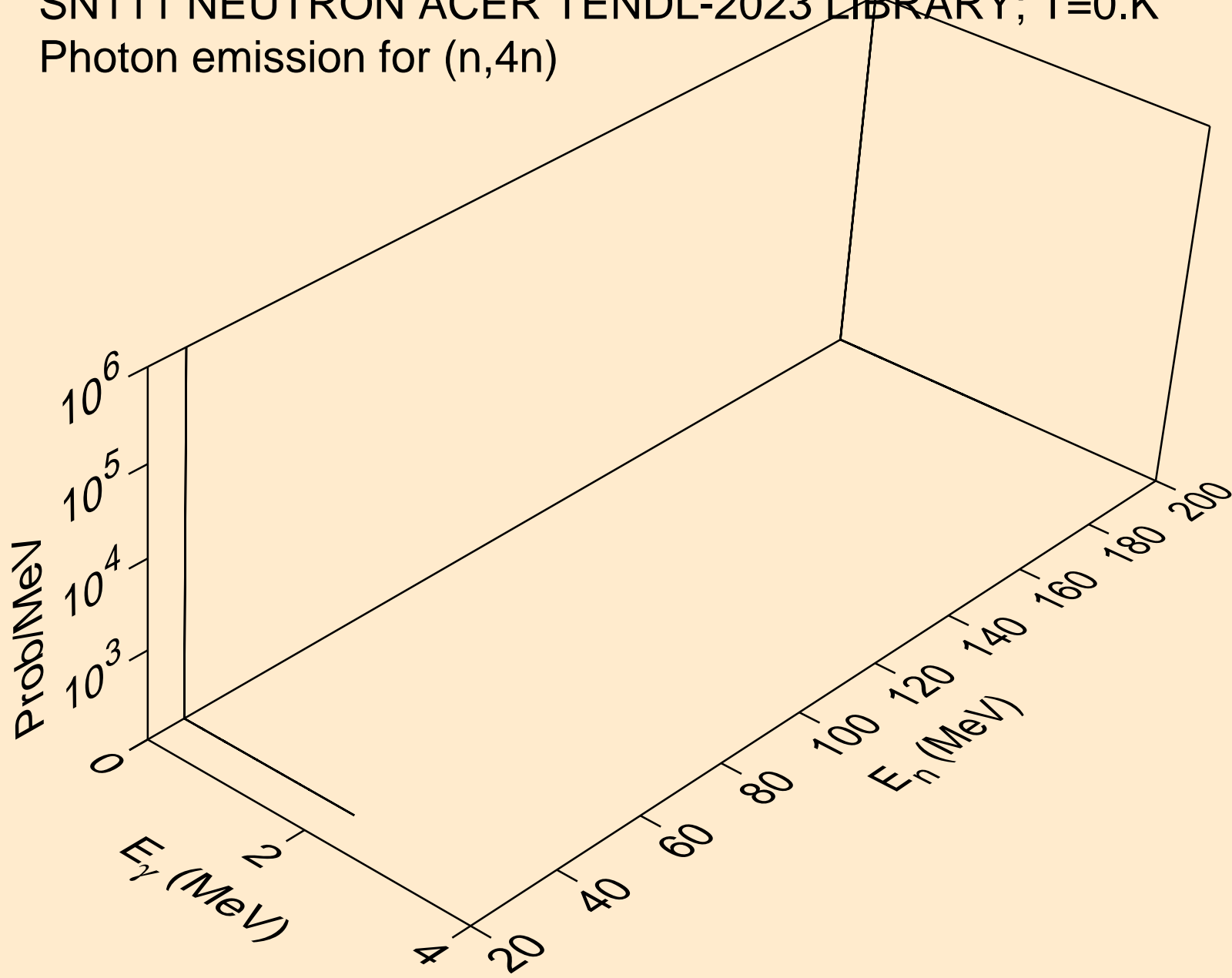
SN111 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)t



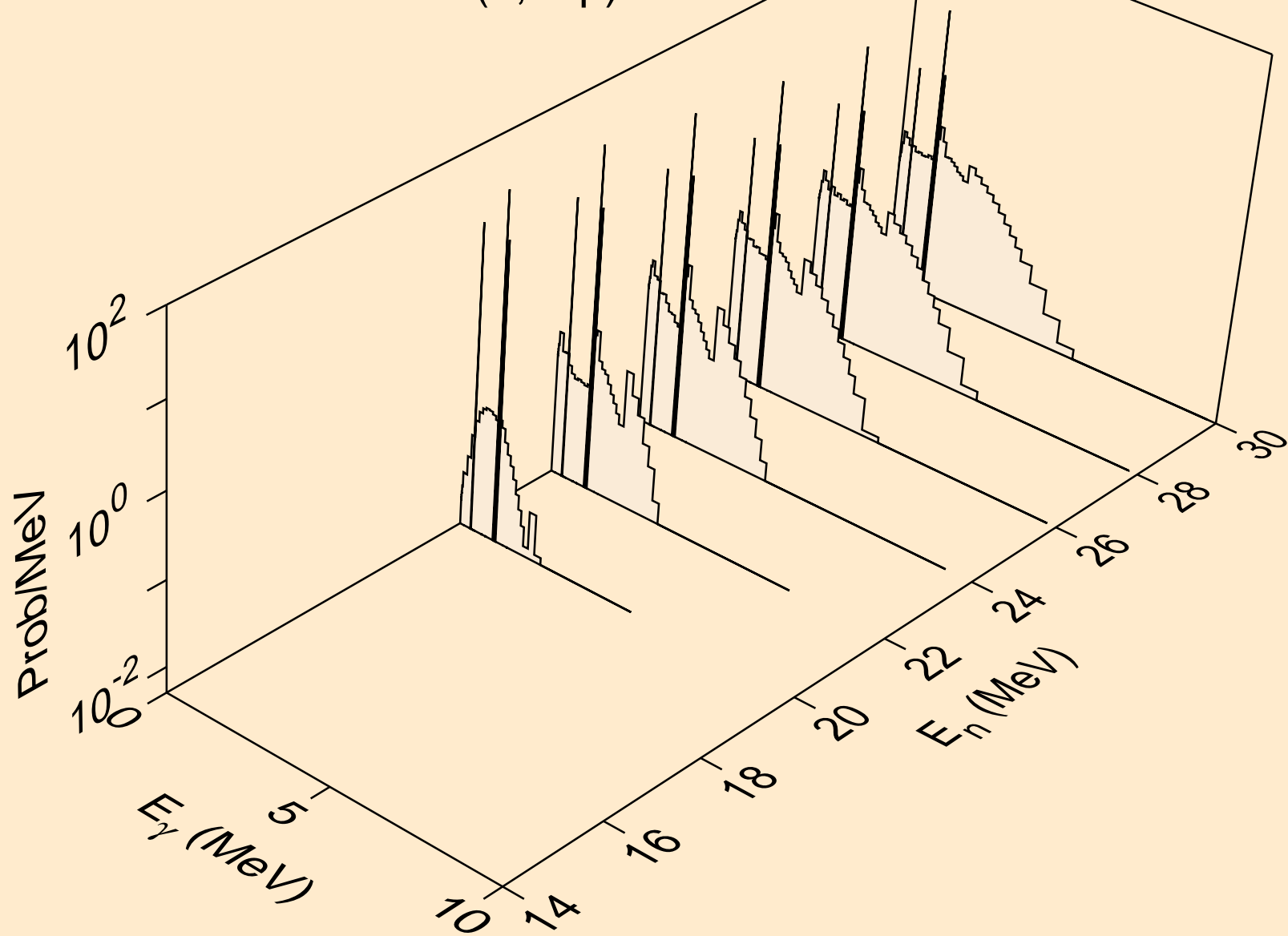
SN111 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)he3



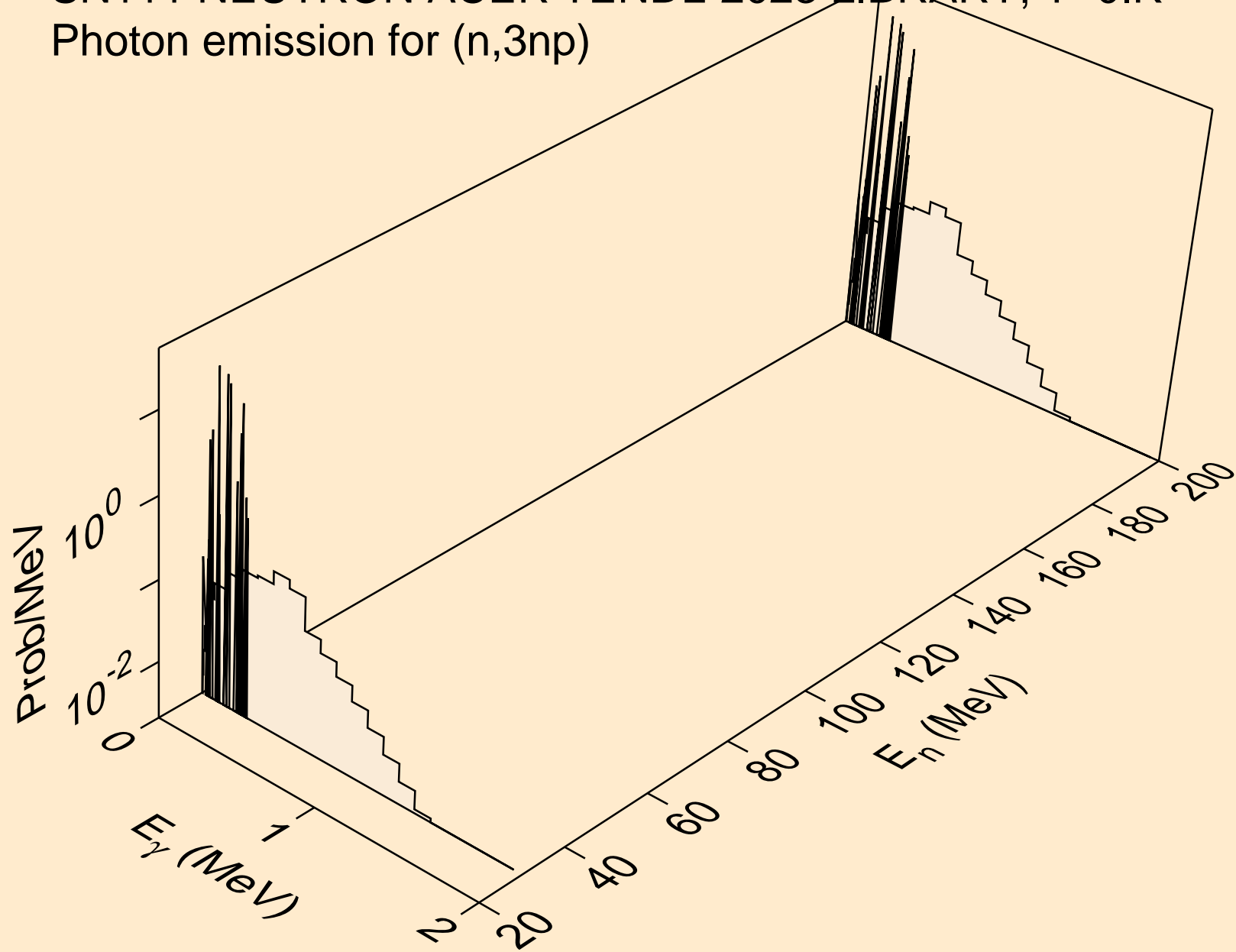
SN111 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,4n)



SN111 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2np)

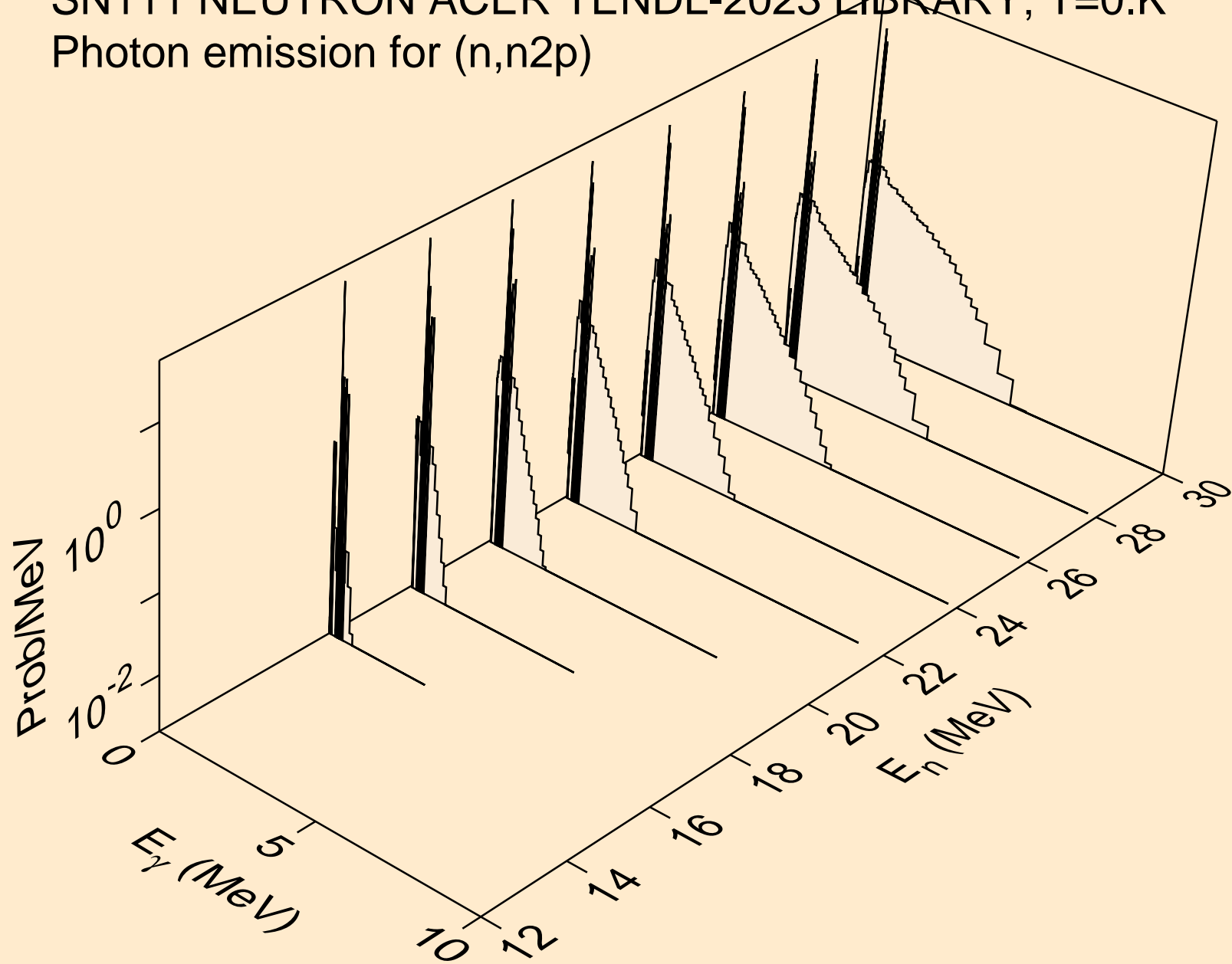


SN111 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,3np)

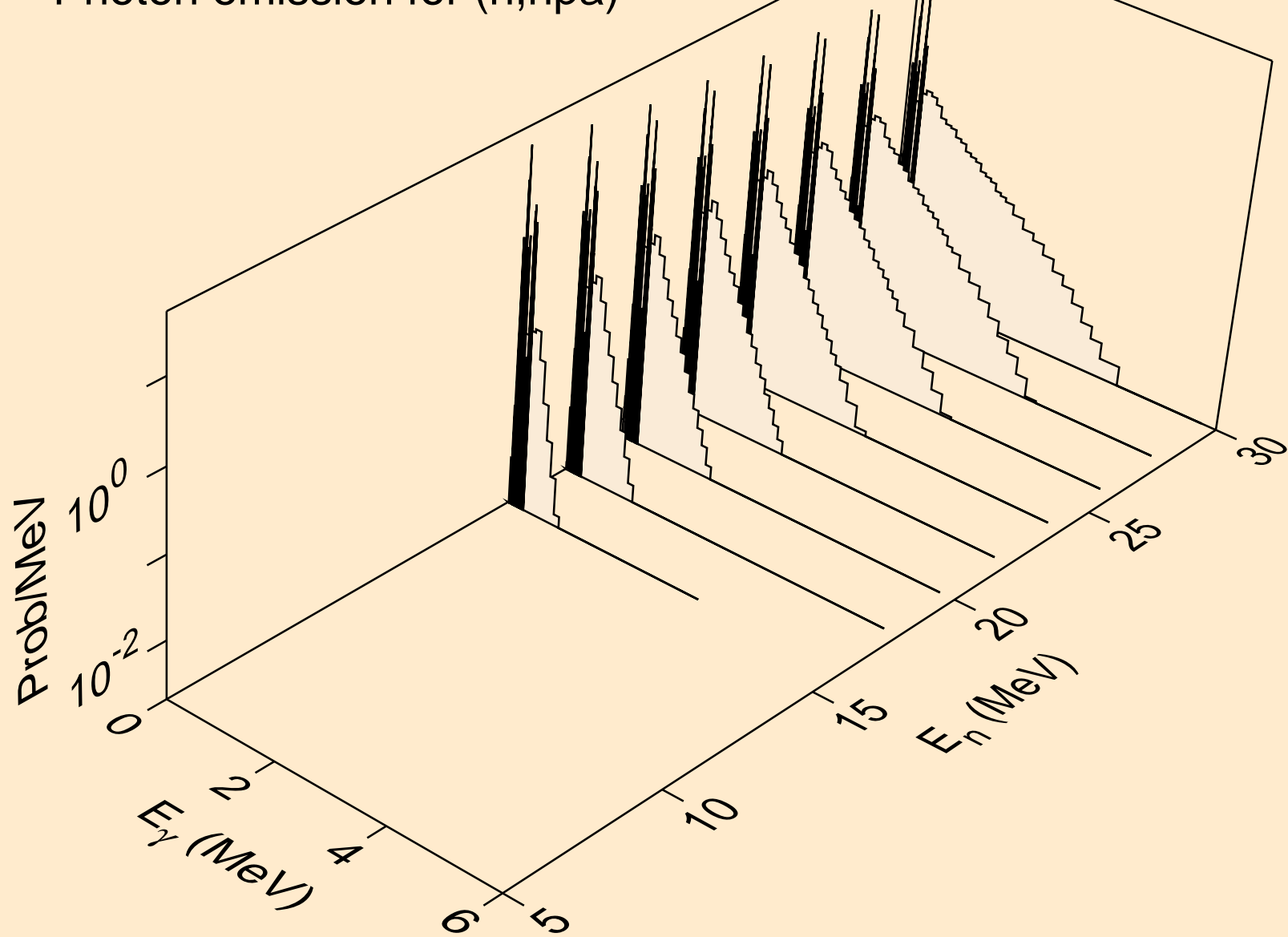




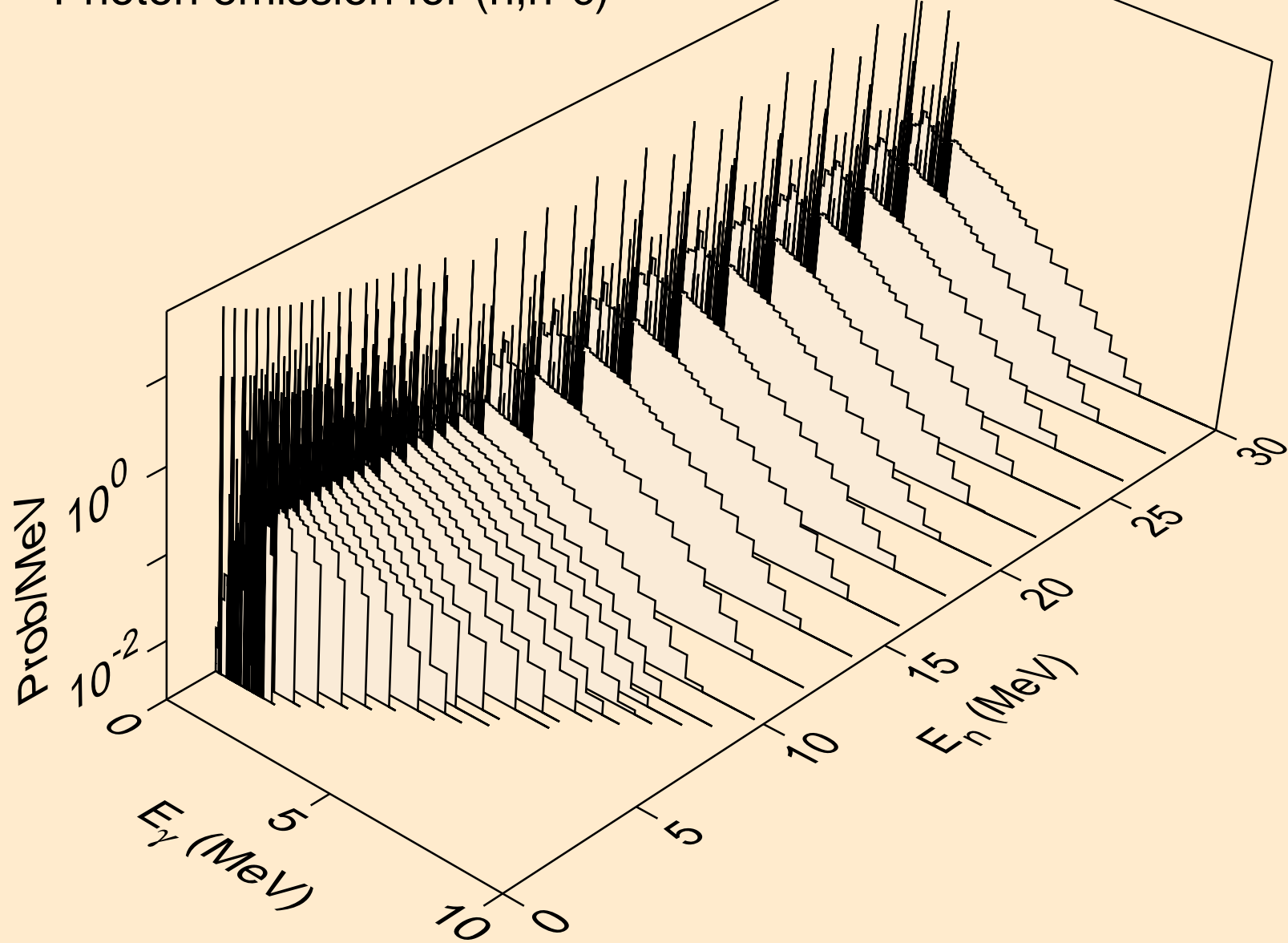
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Photon emission for (n,n2p)



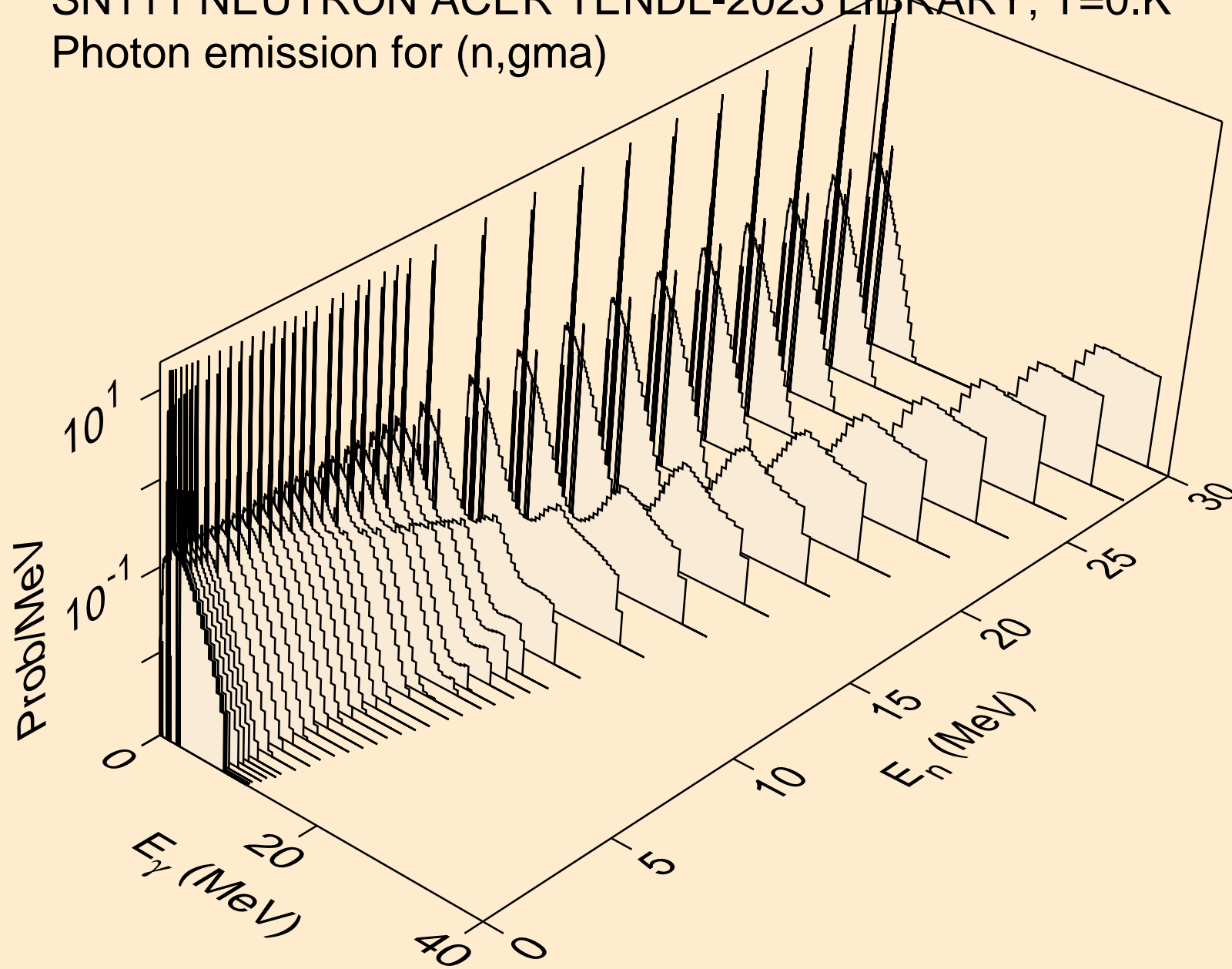
SN111 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,npa)



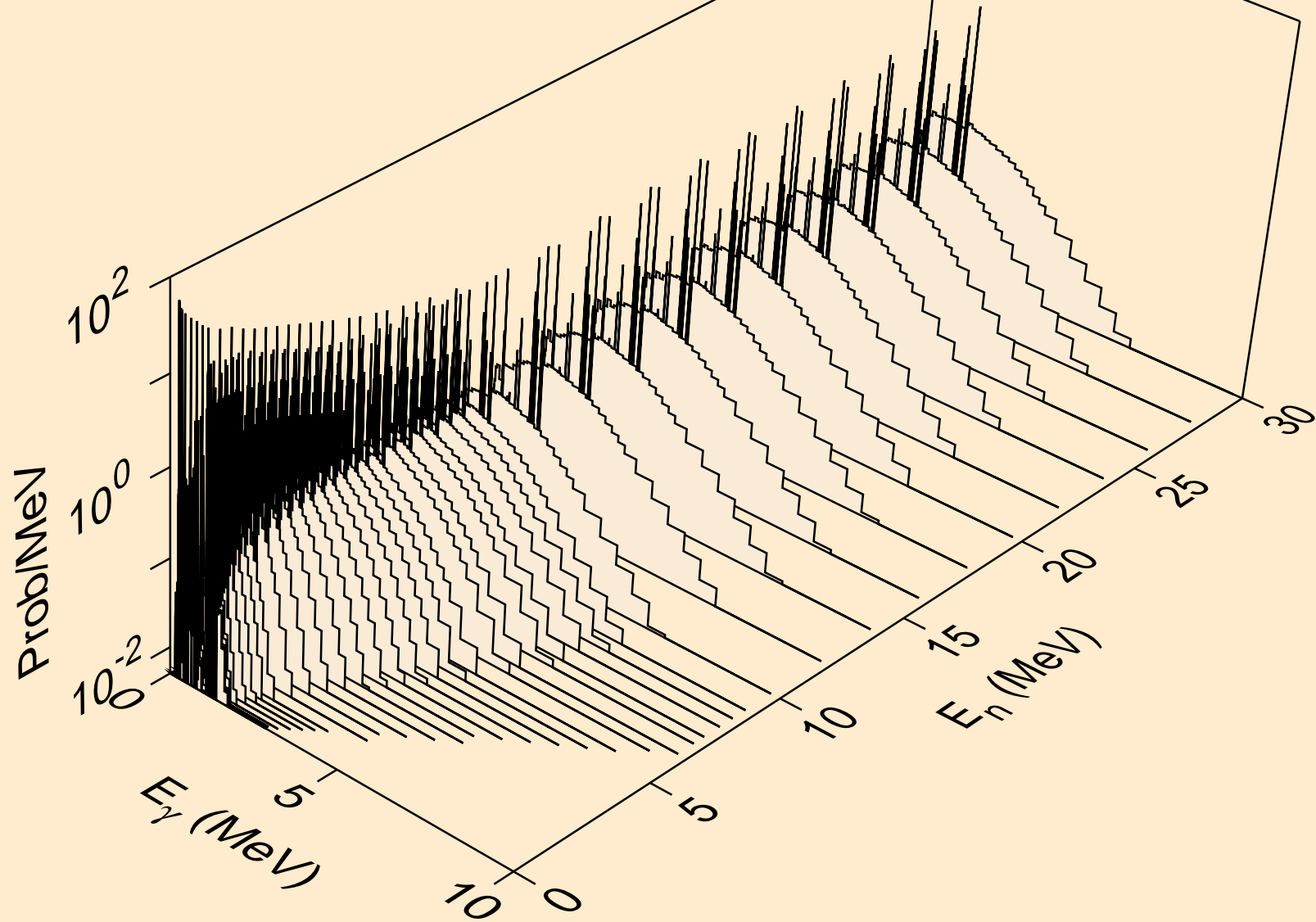
SN111 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*c)



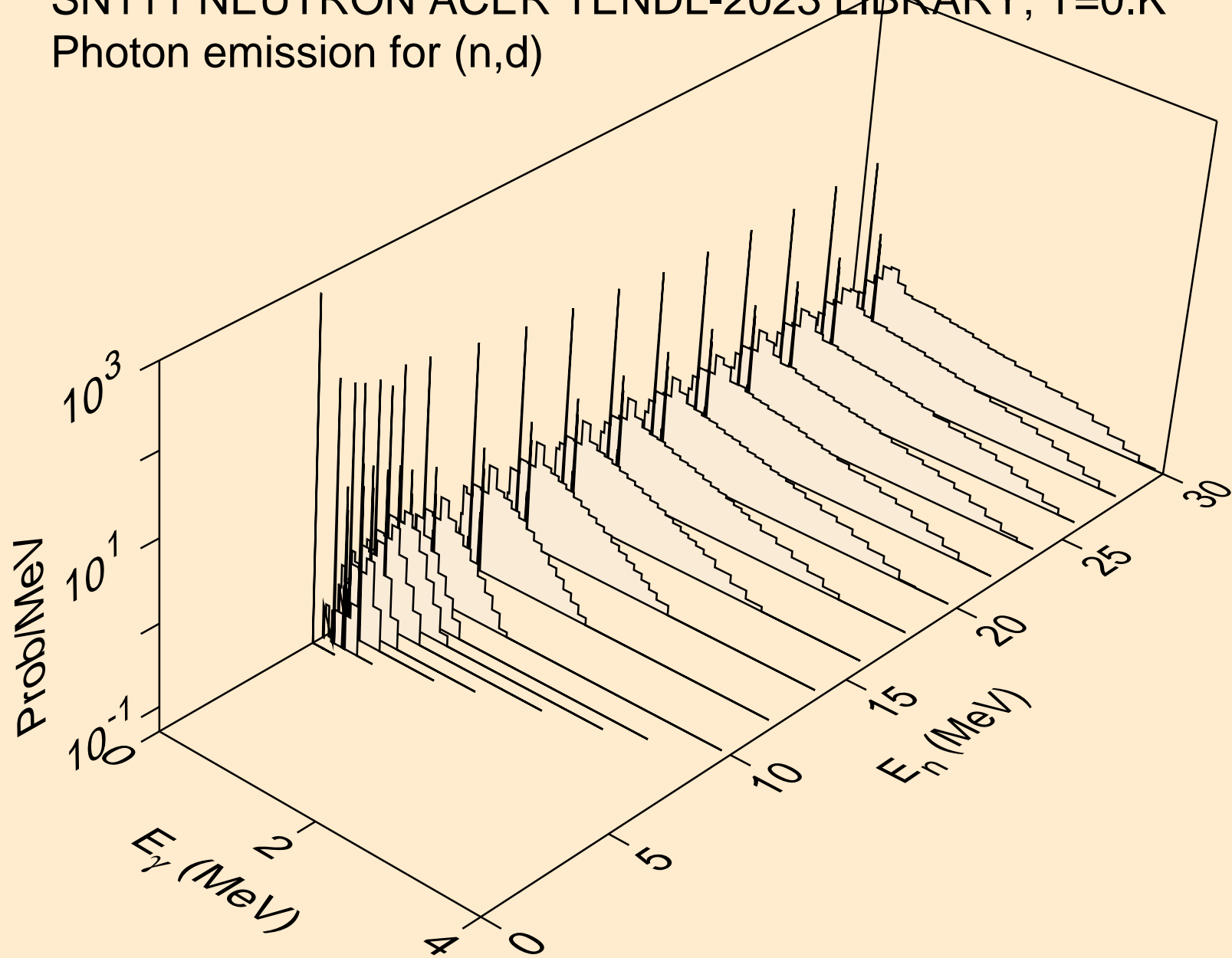
SN111 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,gma)



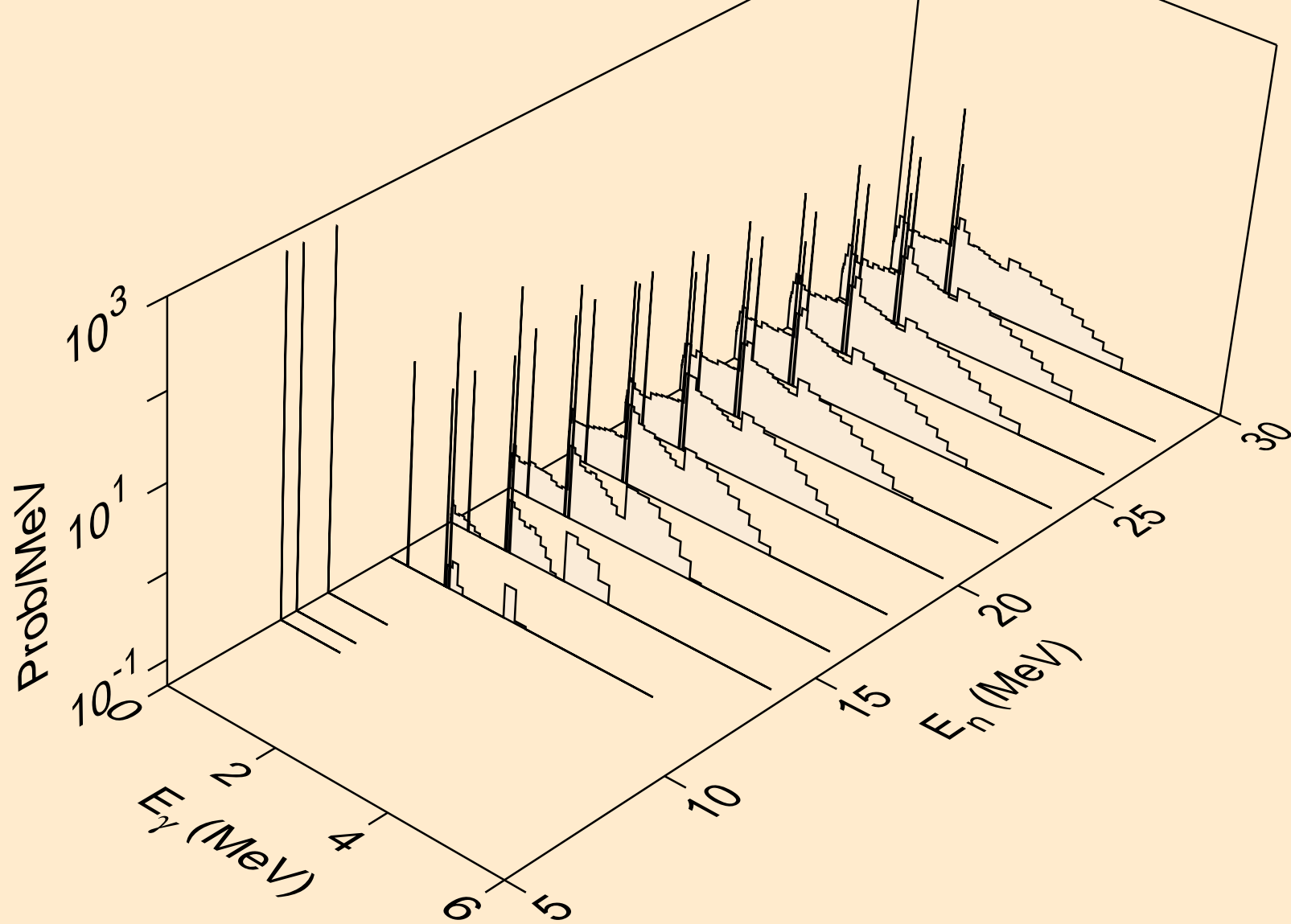
SN111 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,p)



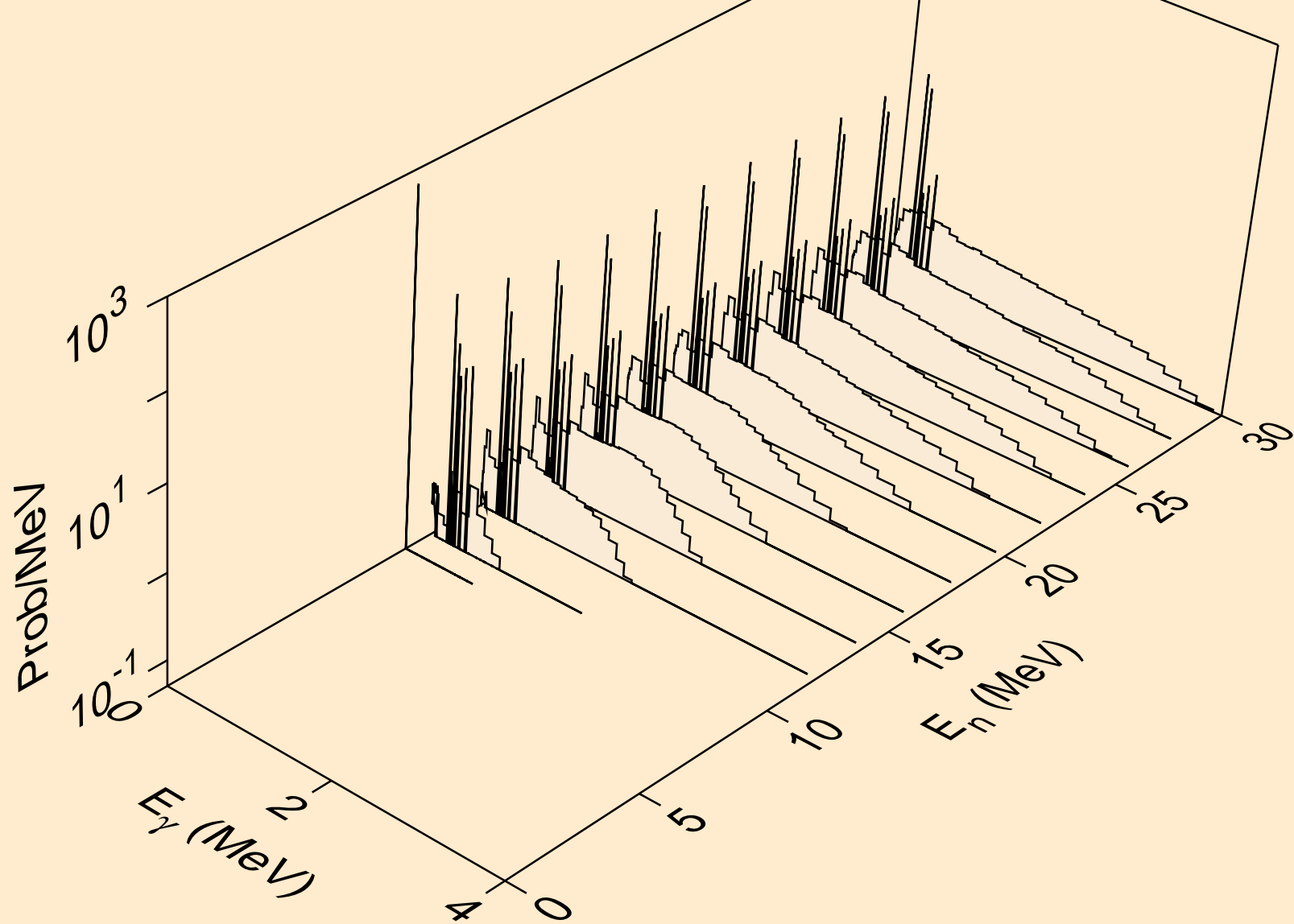
SN111 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,d)



SN111 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,t)

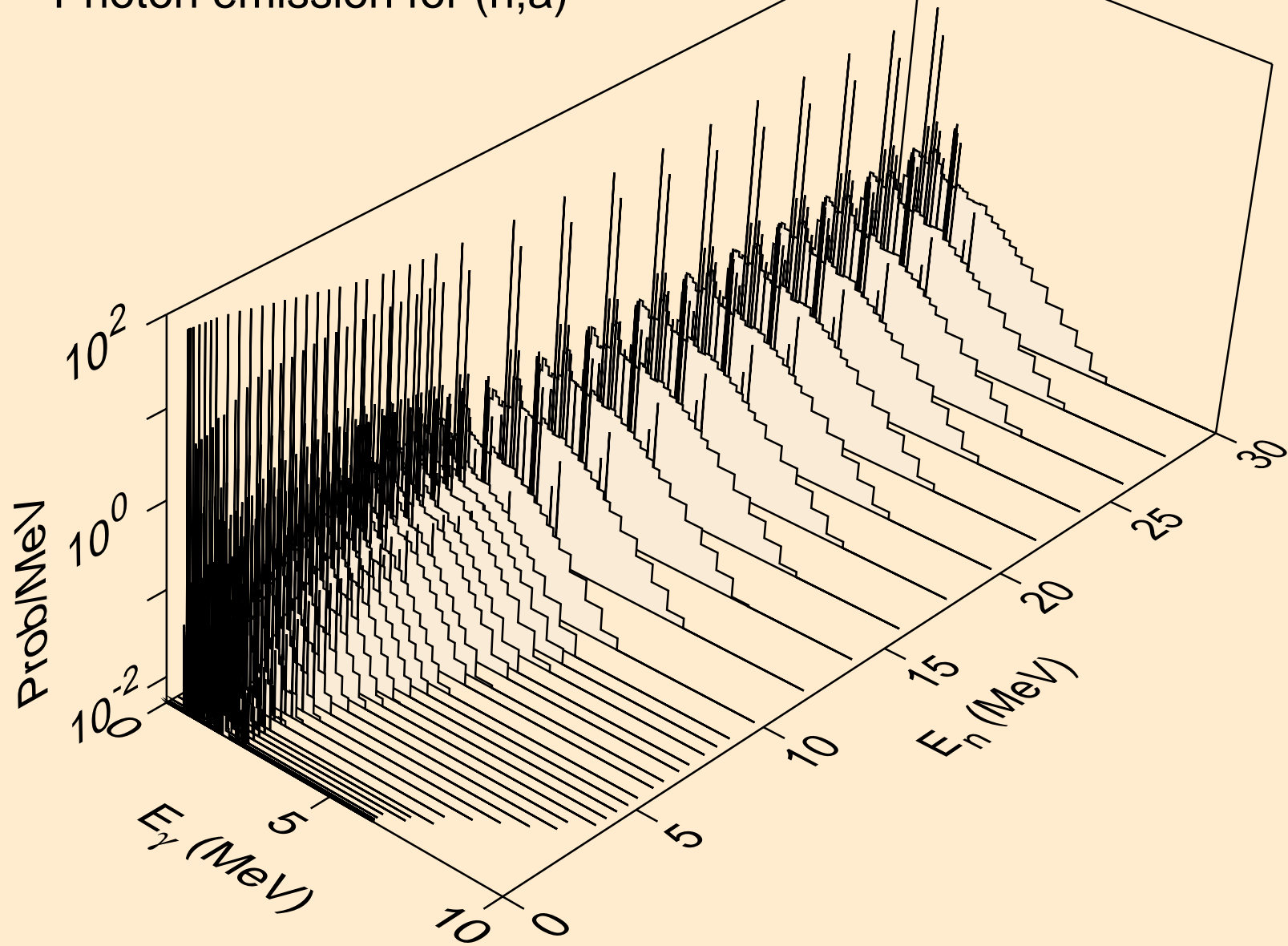


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Photon emission for (n,he3)

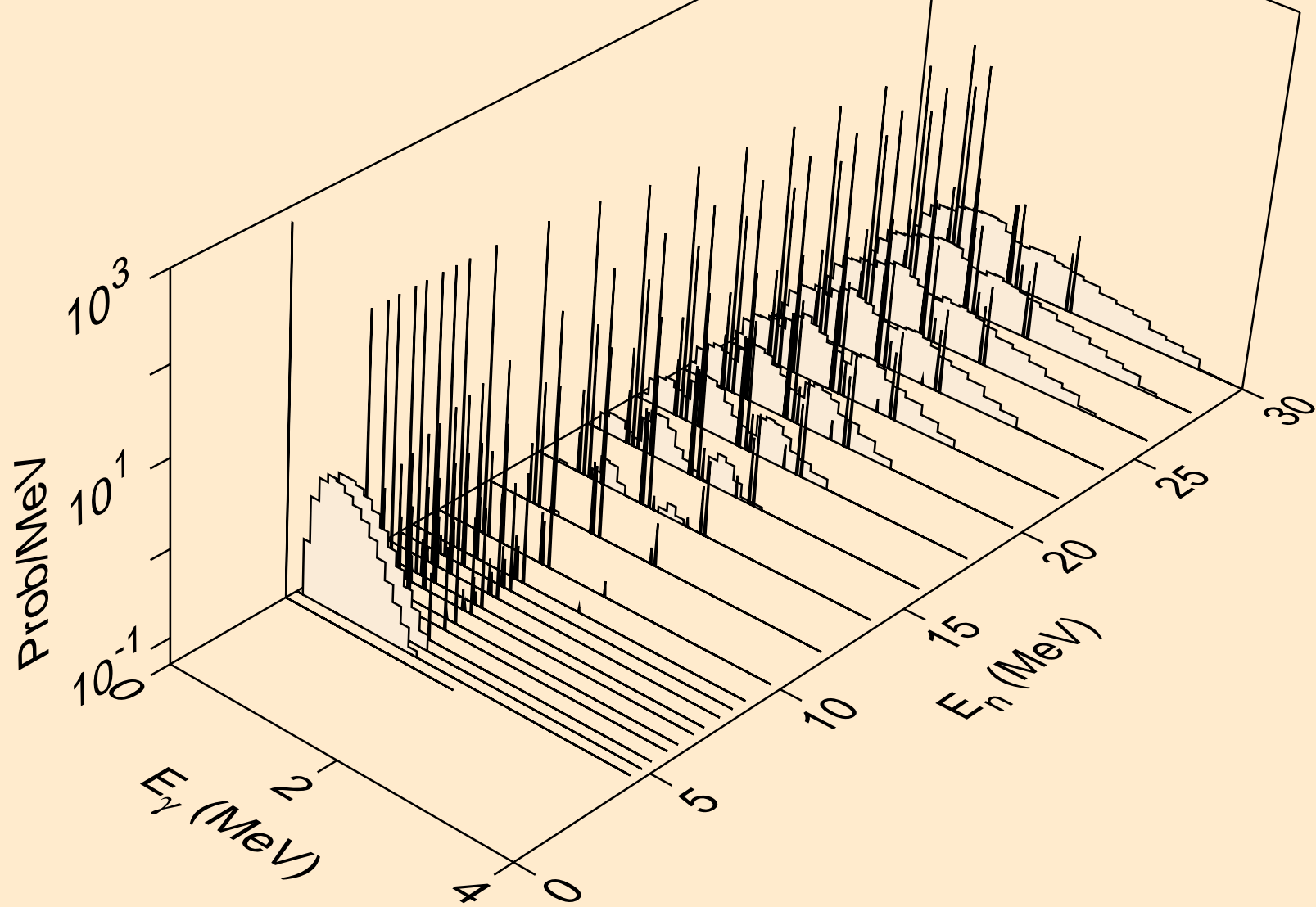




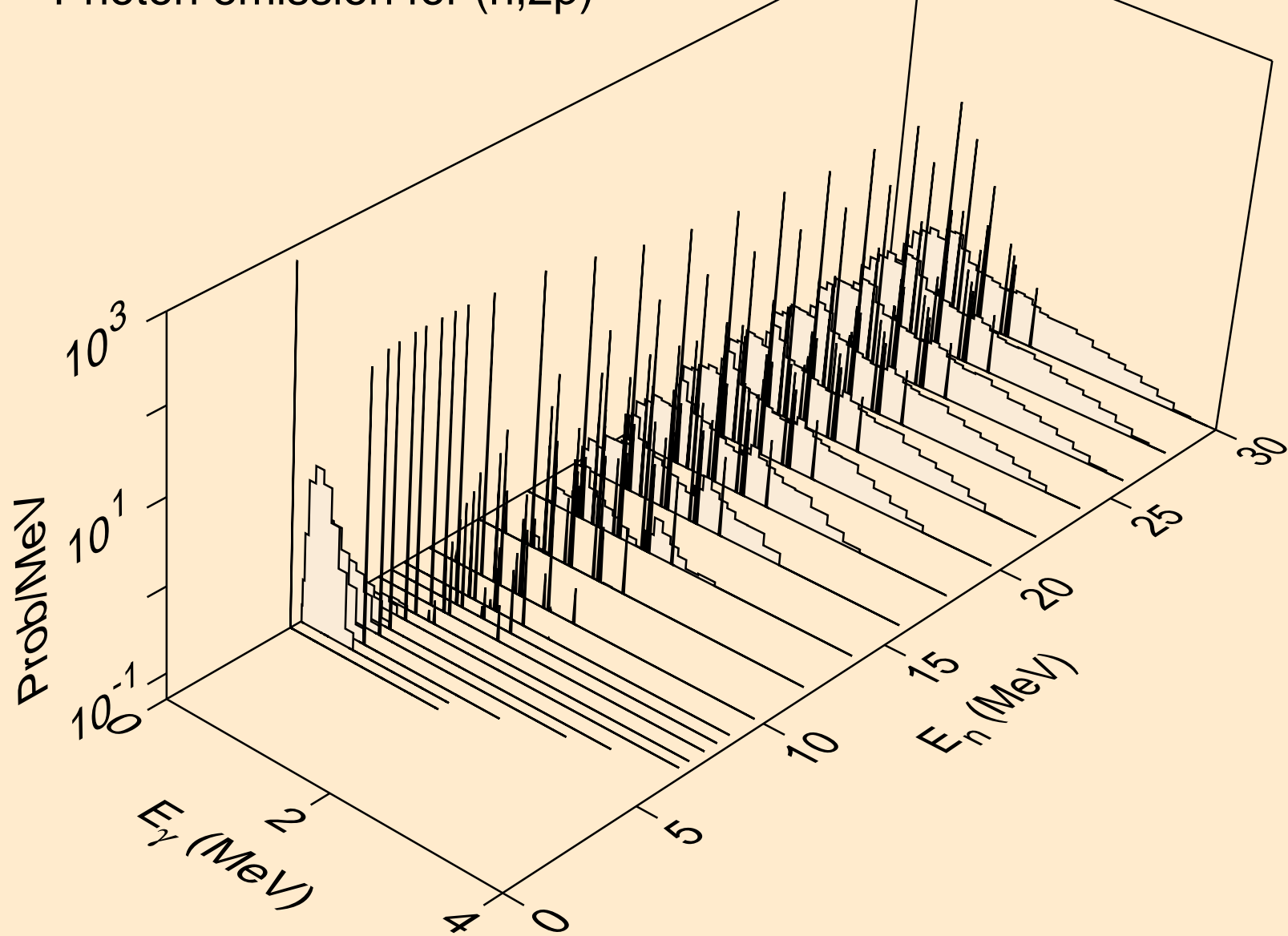
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Photon emission for (n,a)



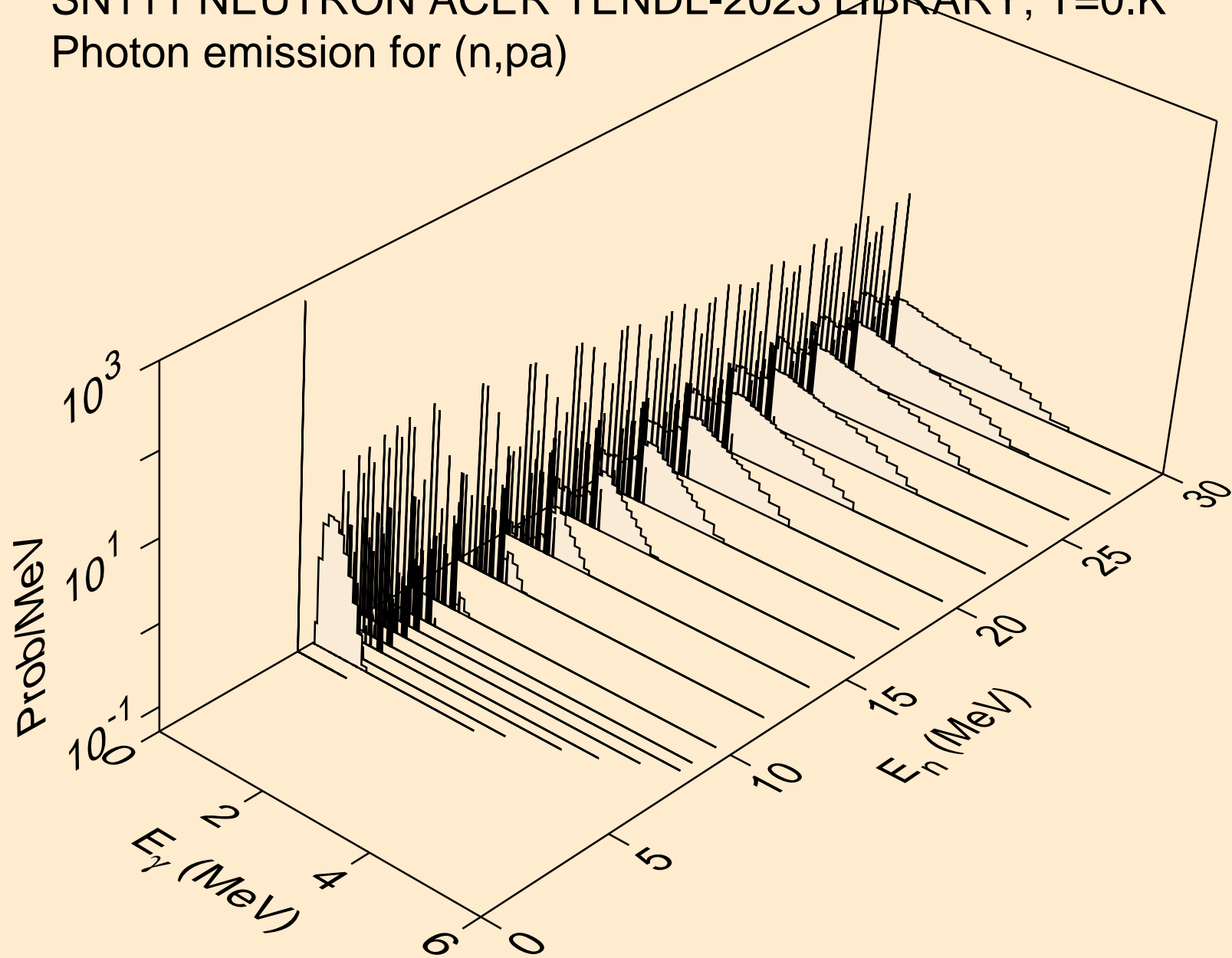
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Photon emission for (n,2a)



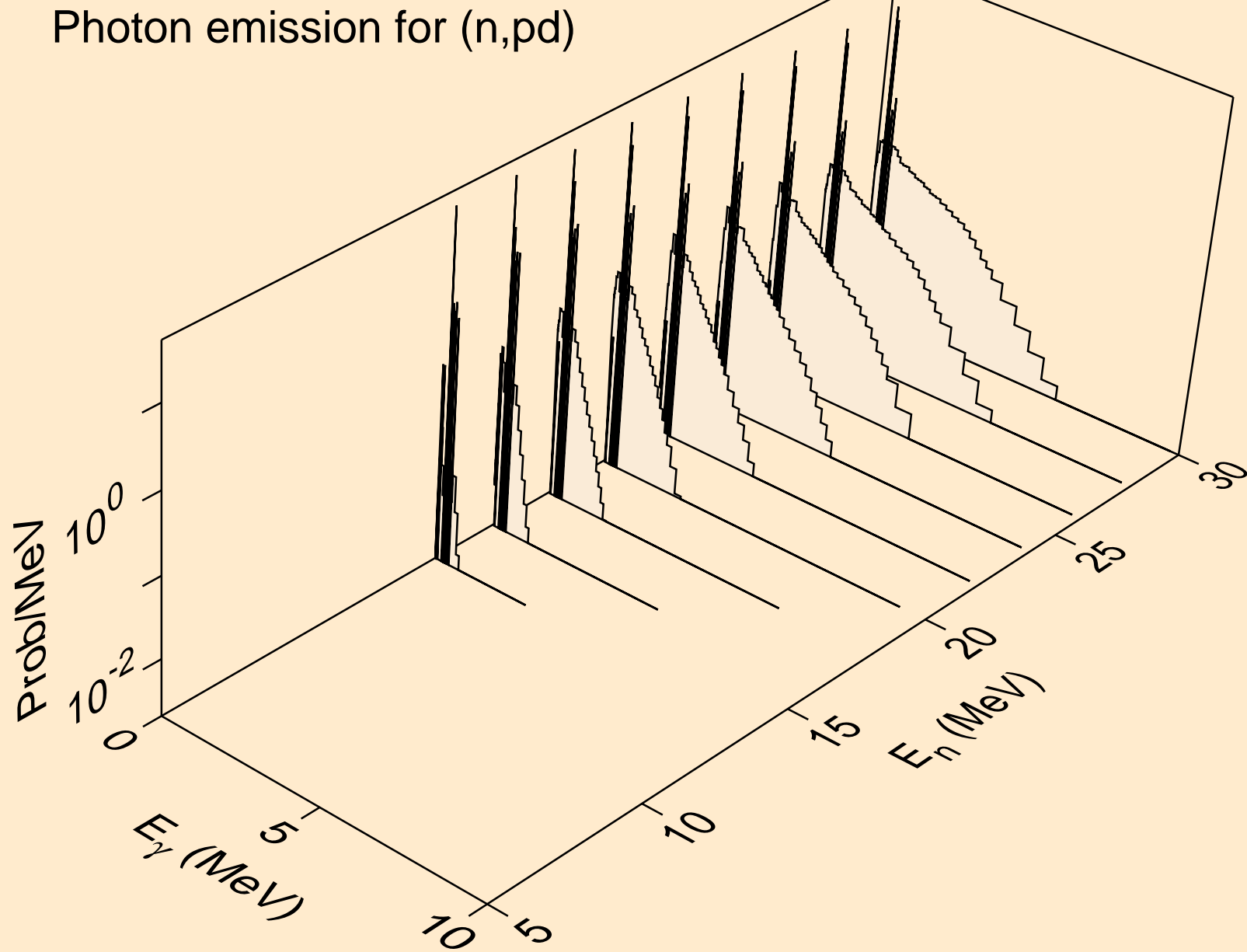
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Photon emission for (n,2p)



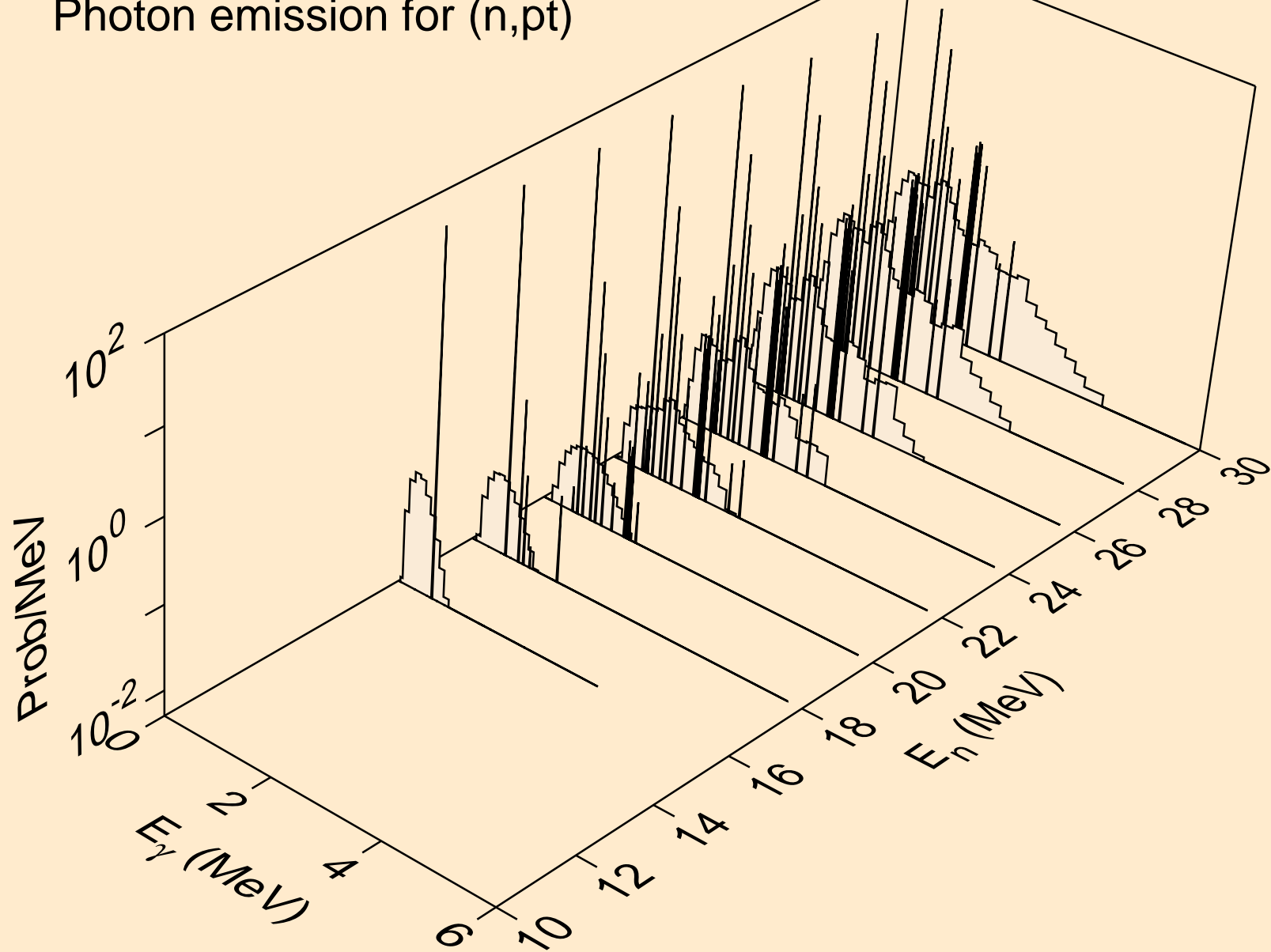
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Photon emission for (n,p $\alpha$ )



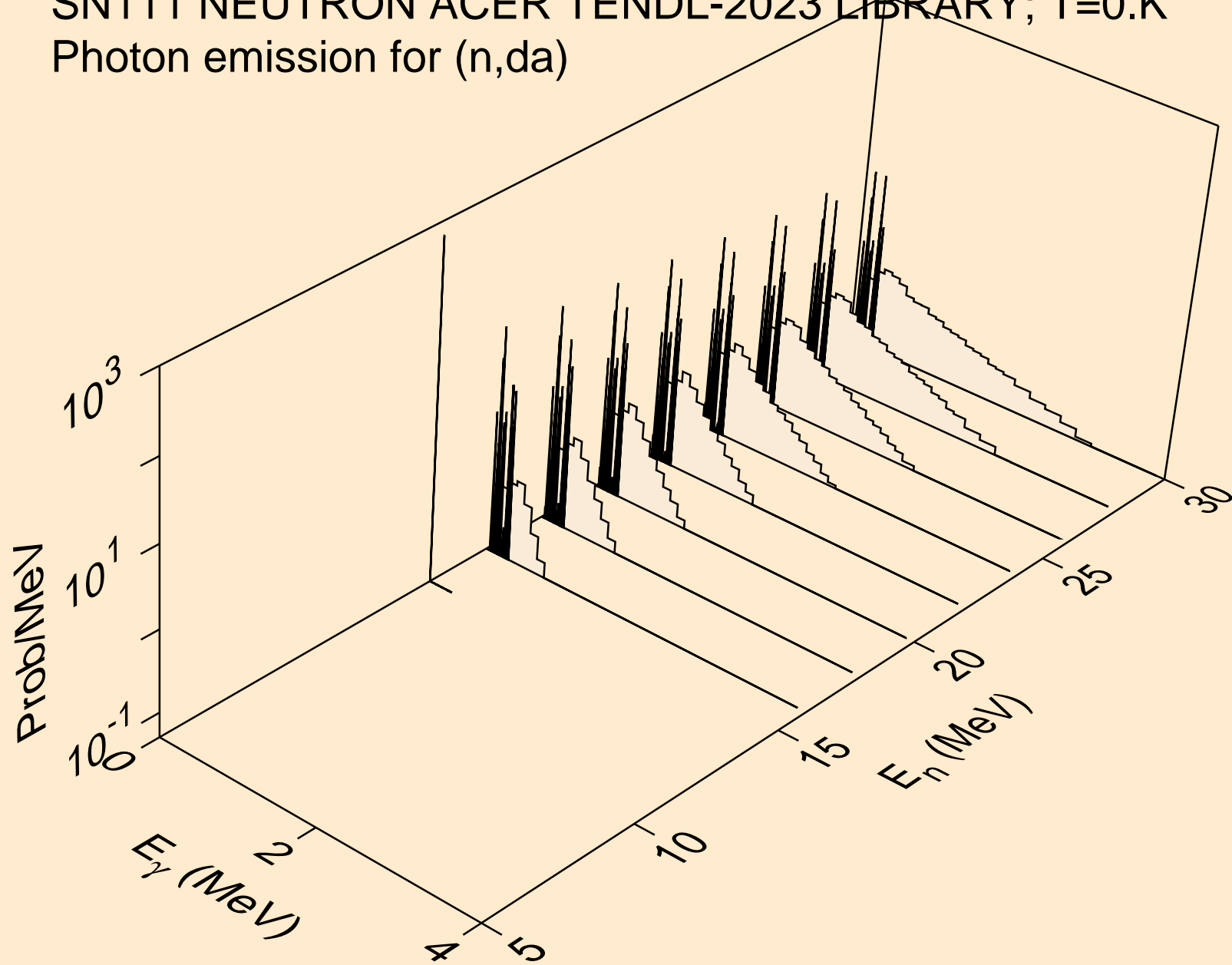
SN111 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,pd)



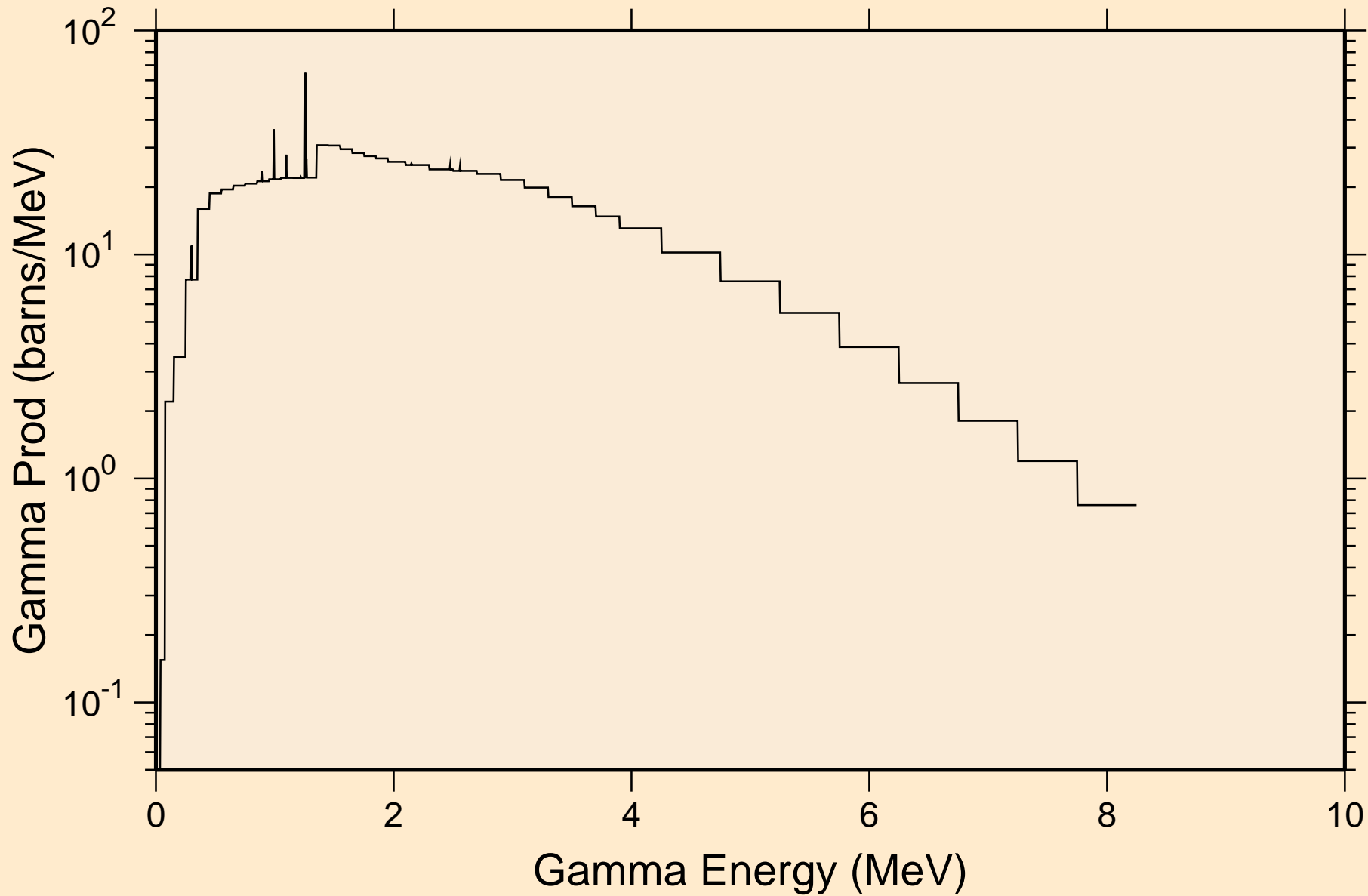
SN111 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,pt)



SN111 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,da)

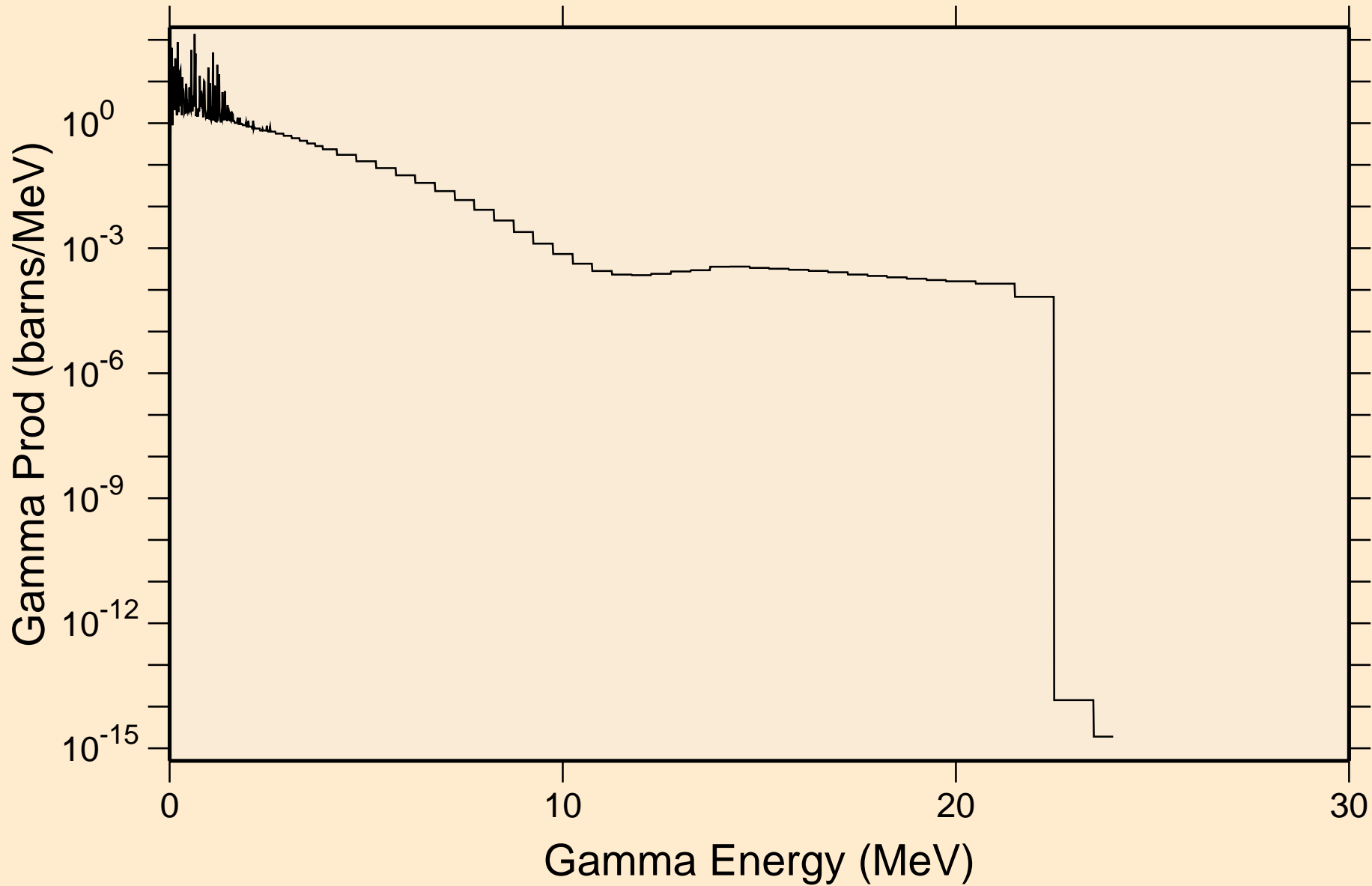


SN111 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
thermal capture photon spectrum



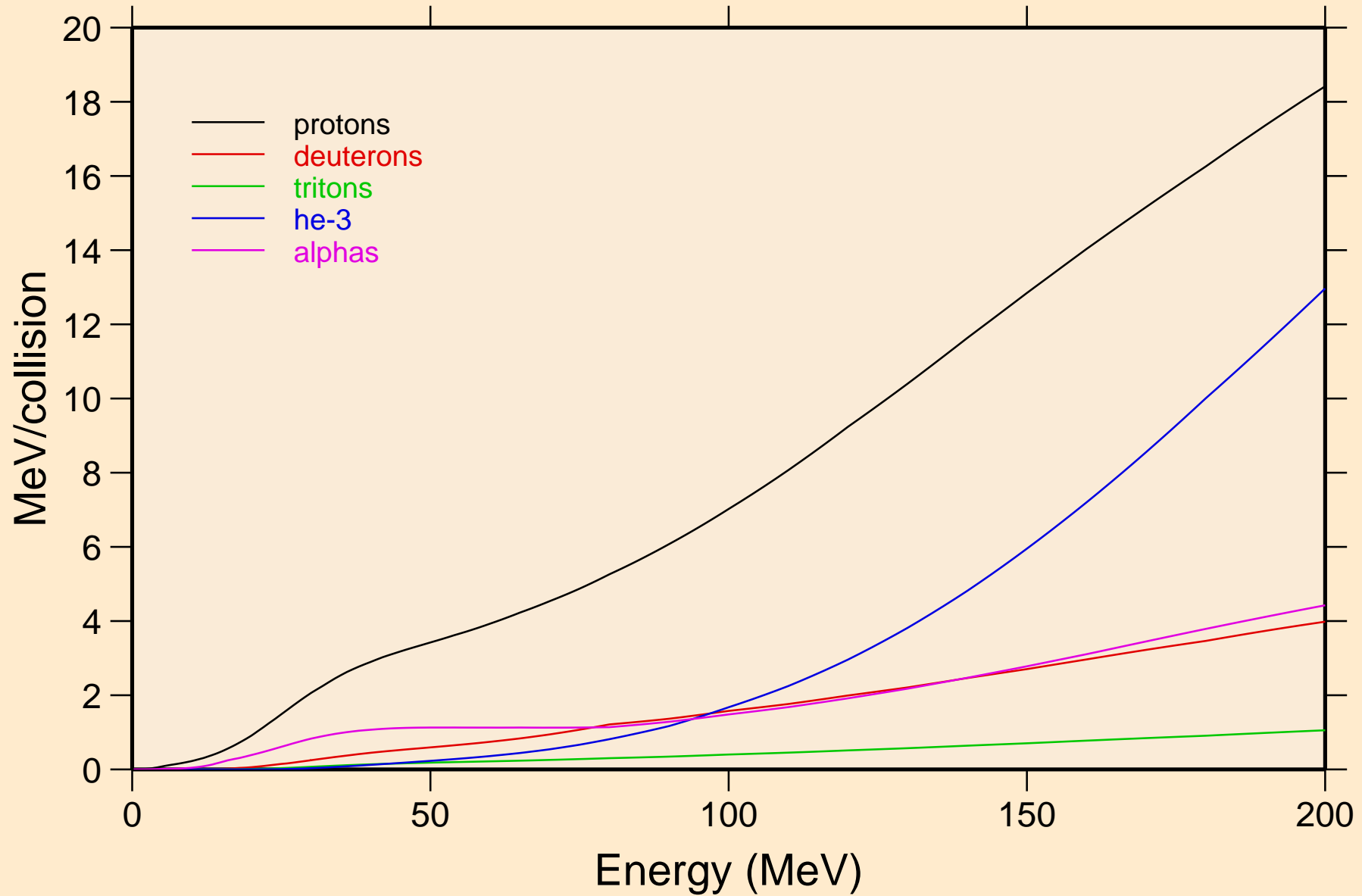


SN111 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
14 MeV photon spectrum



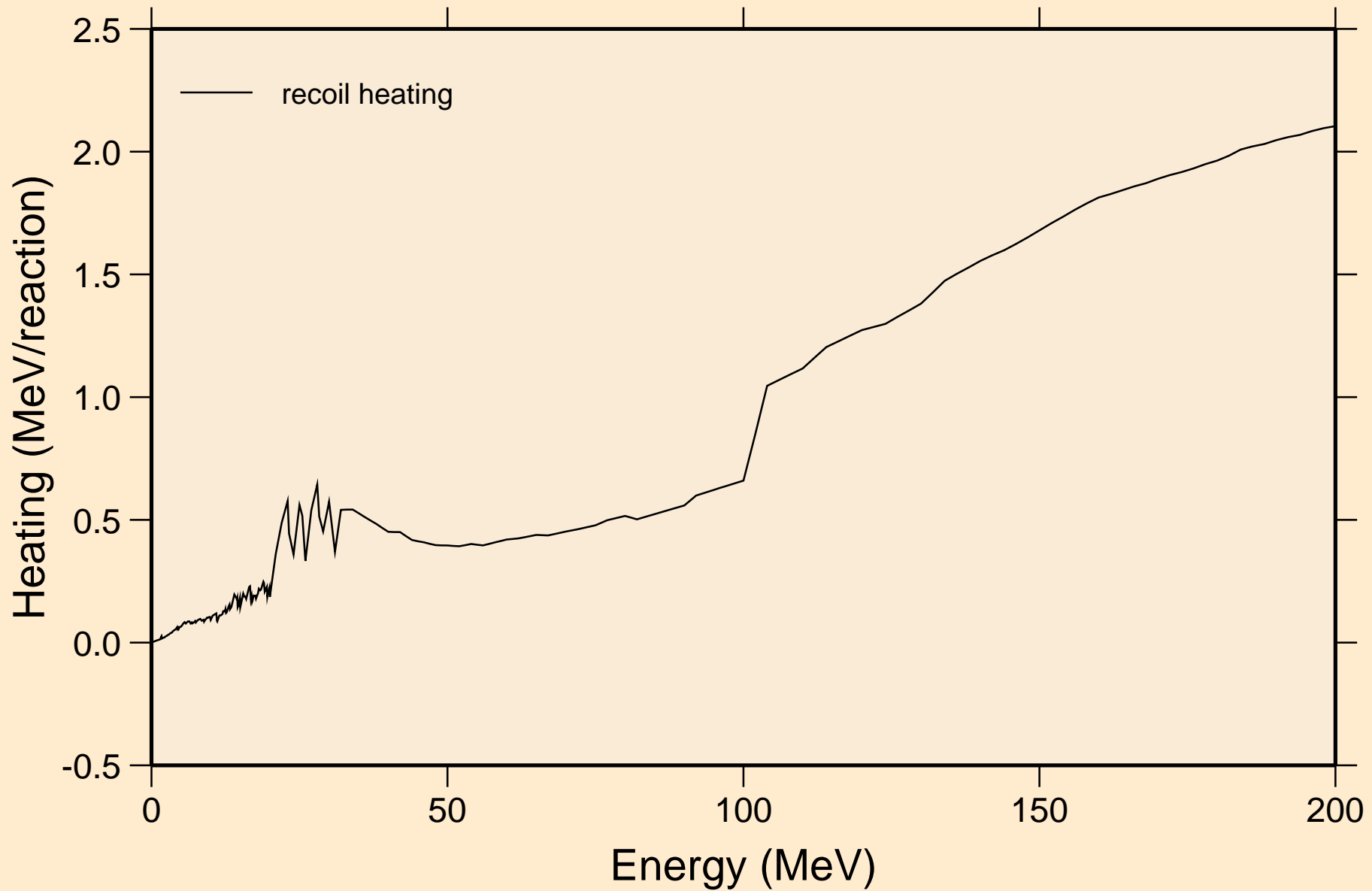
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## Particle heating contributions



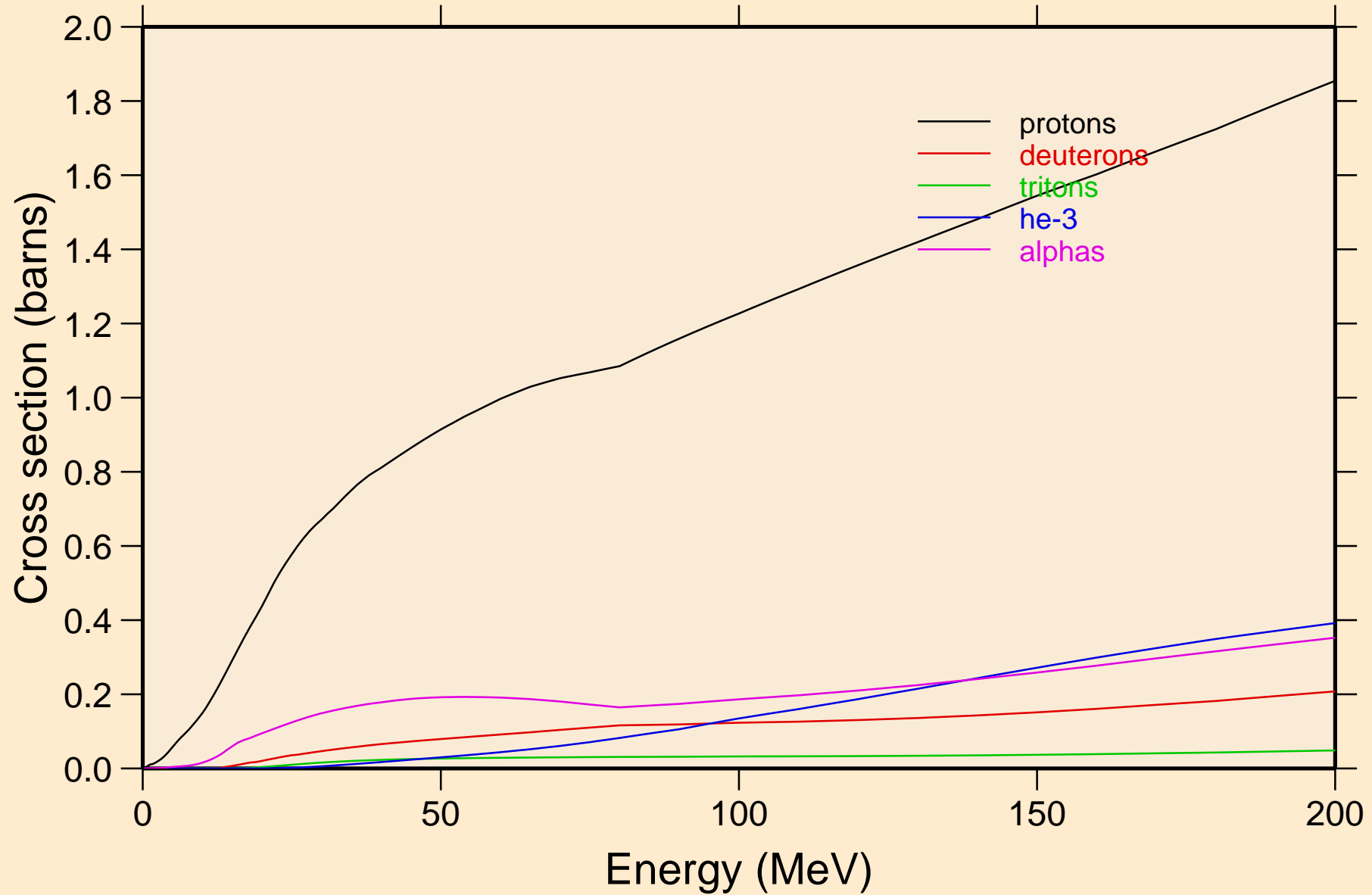
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## Recoil Heating

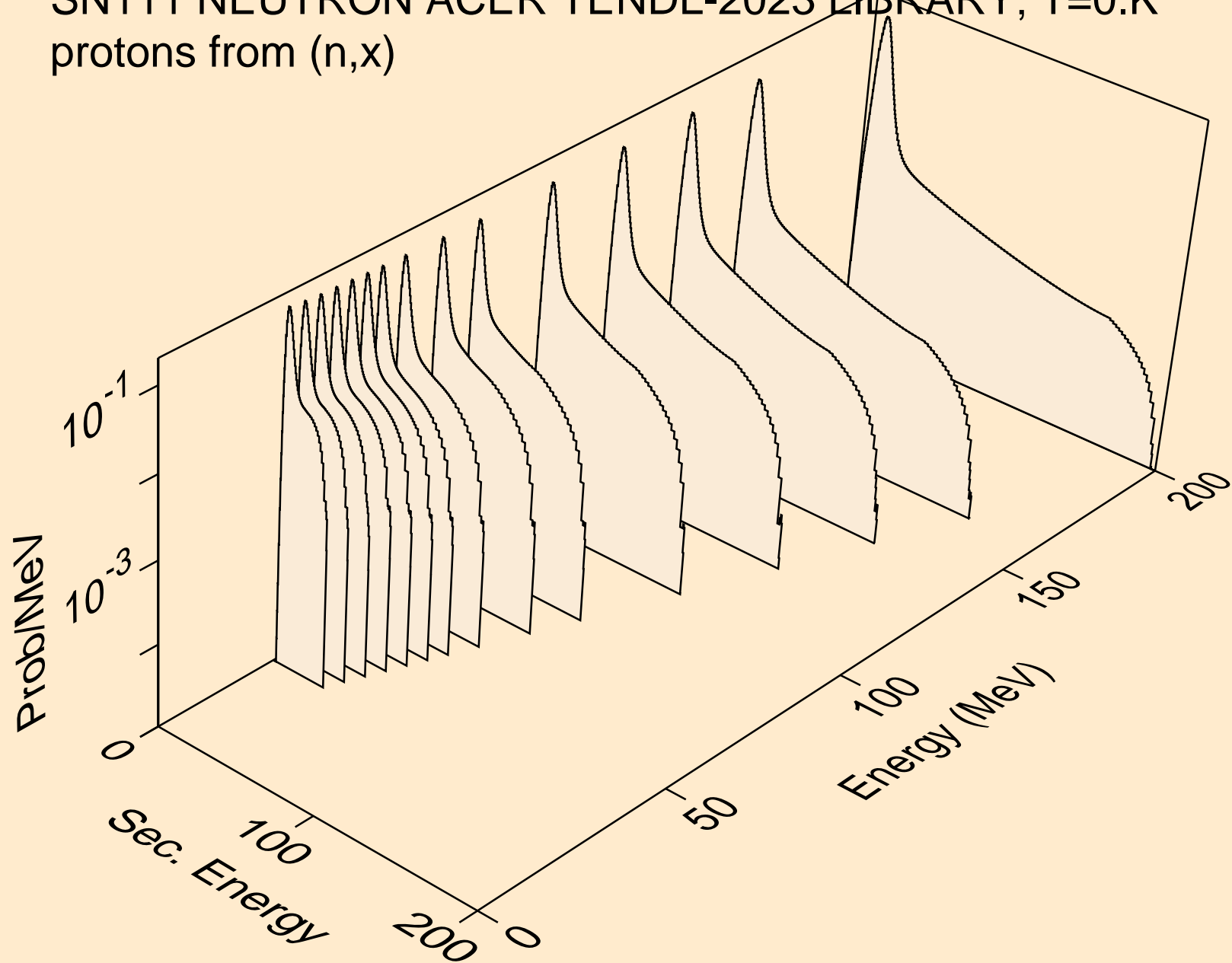


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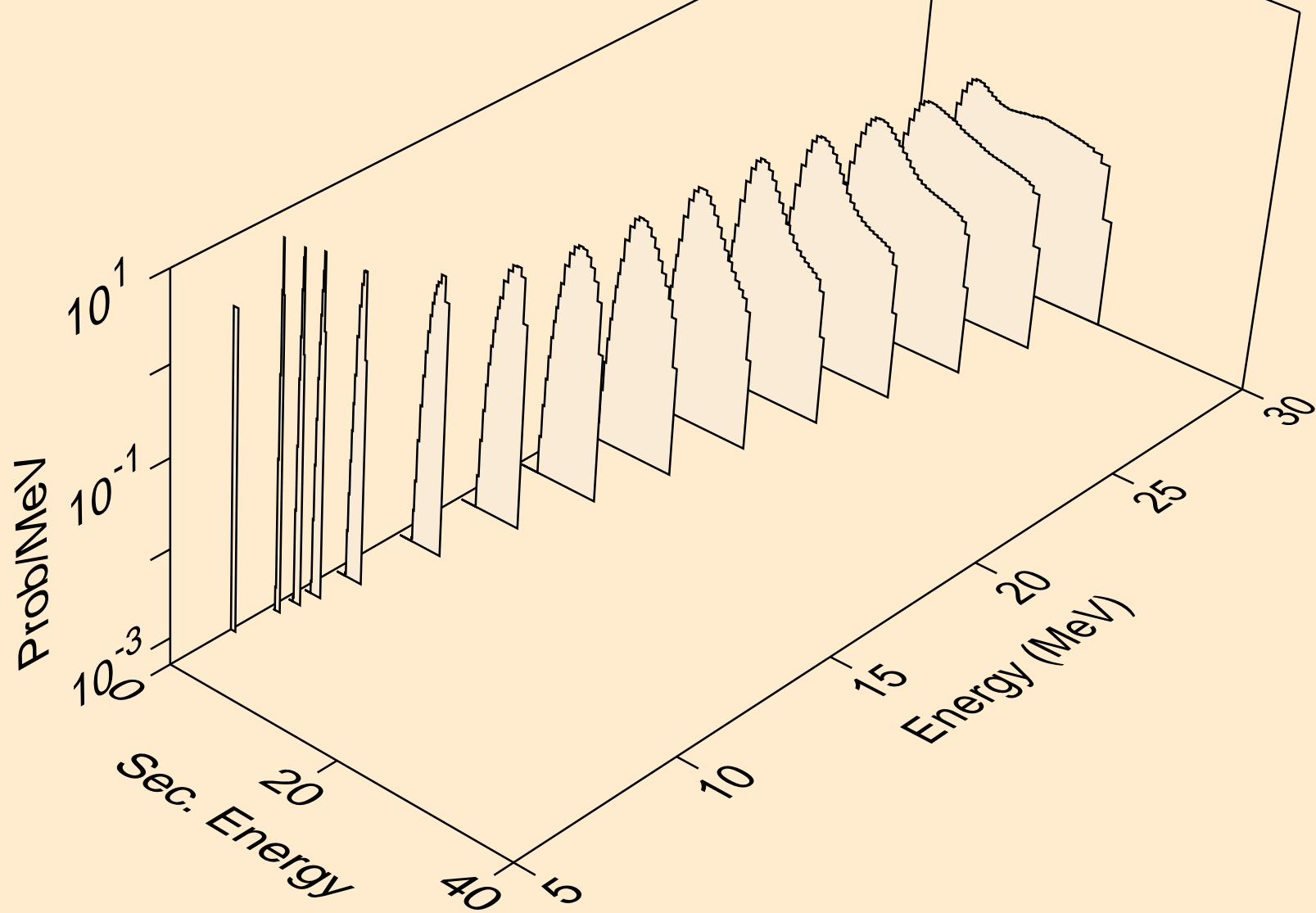
## Particle production cross sections



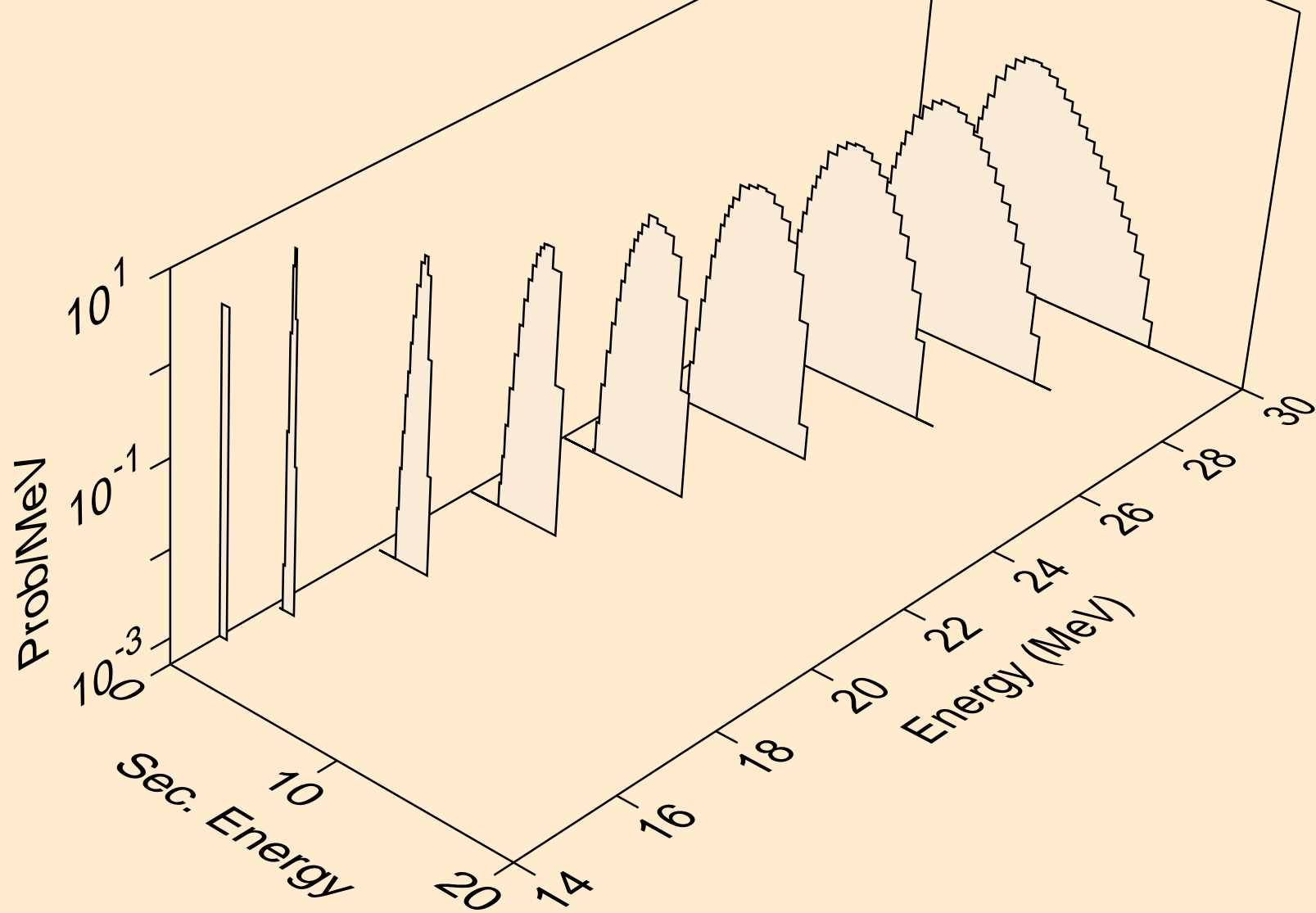
SN111 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
protons from (n,x)



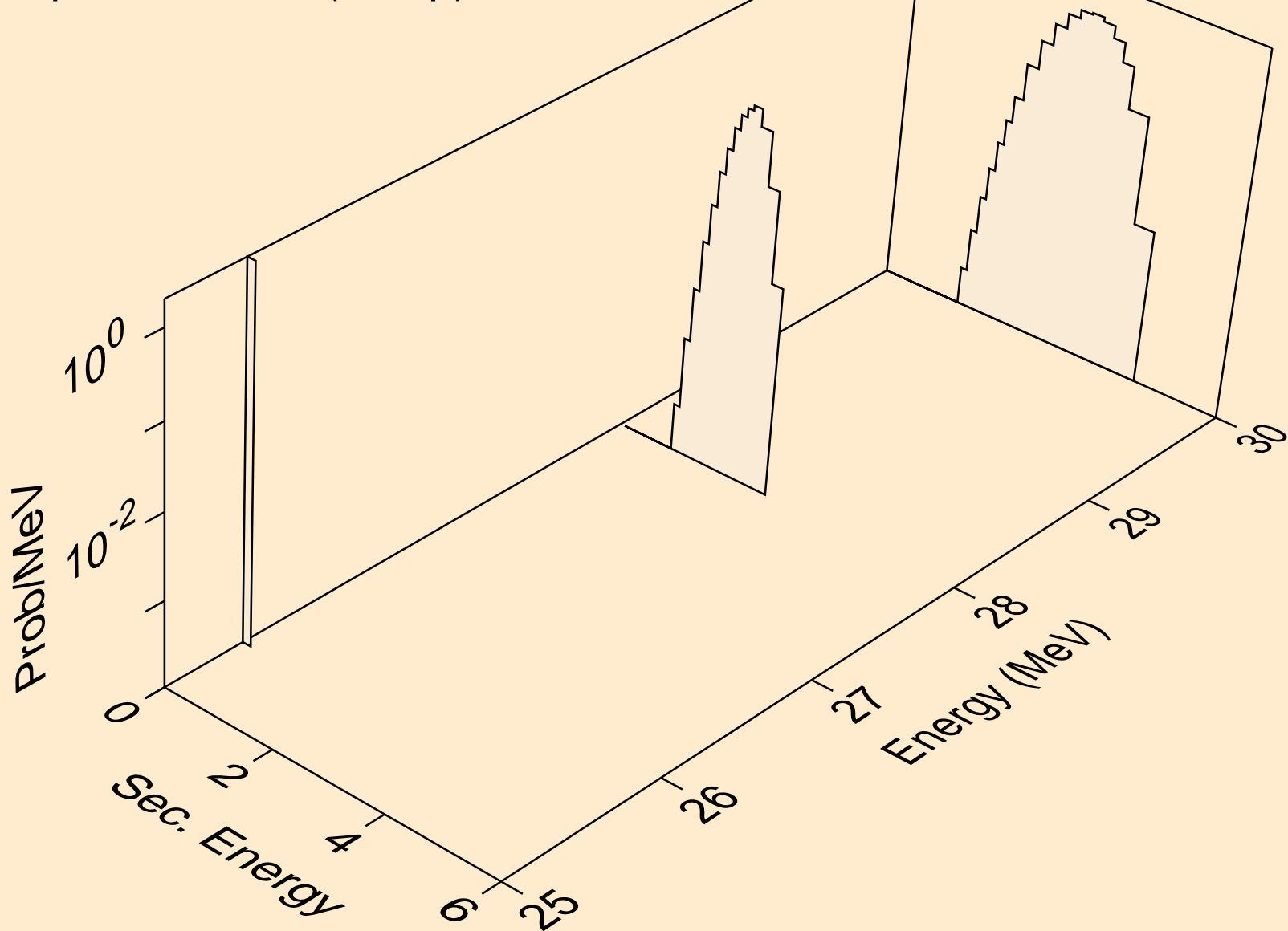
SN111 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
protons from (n,n\*)p



SN111 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
protons from (n,2np)

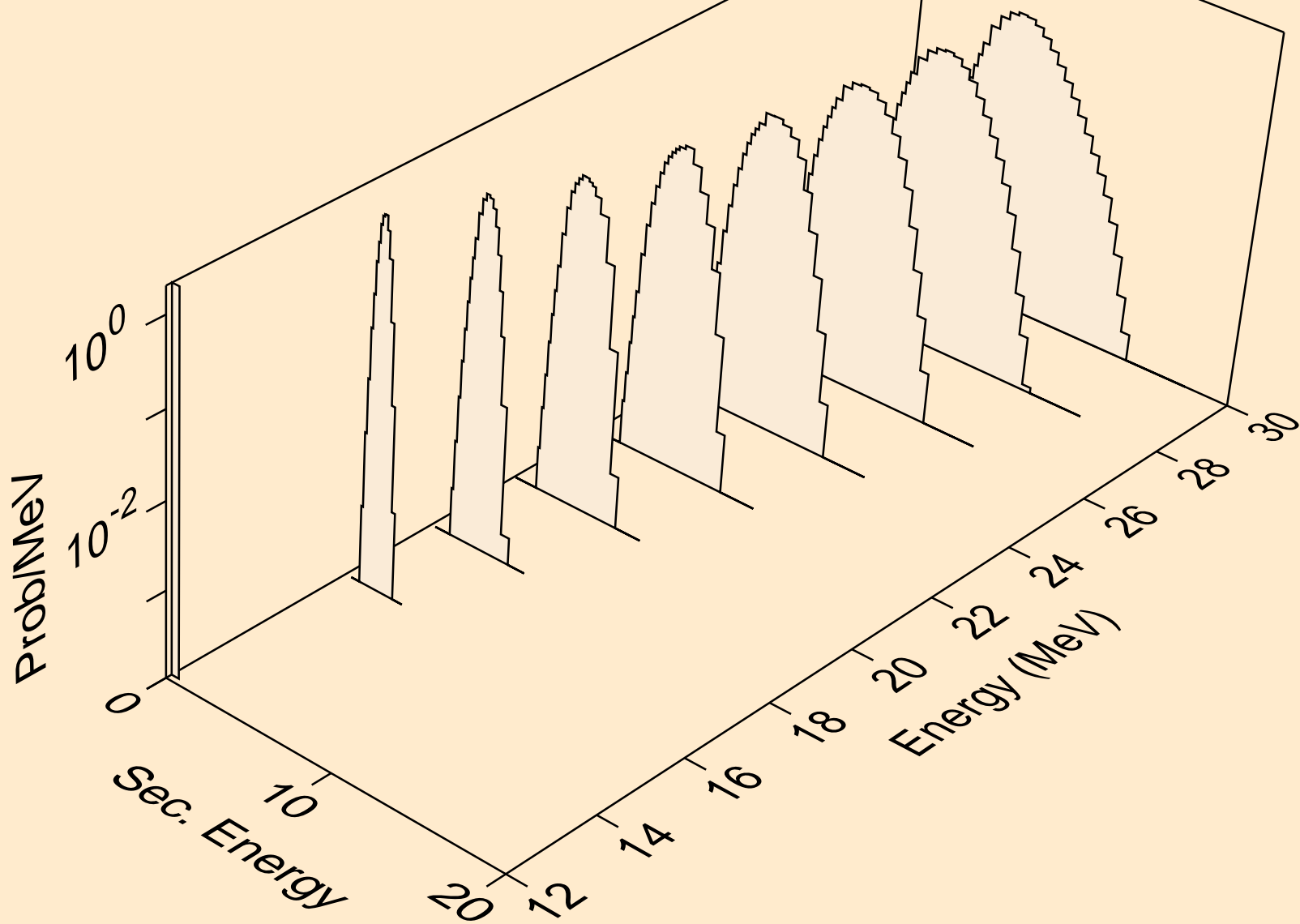


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protons from (n,3np)

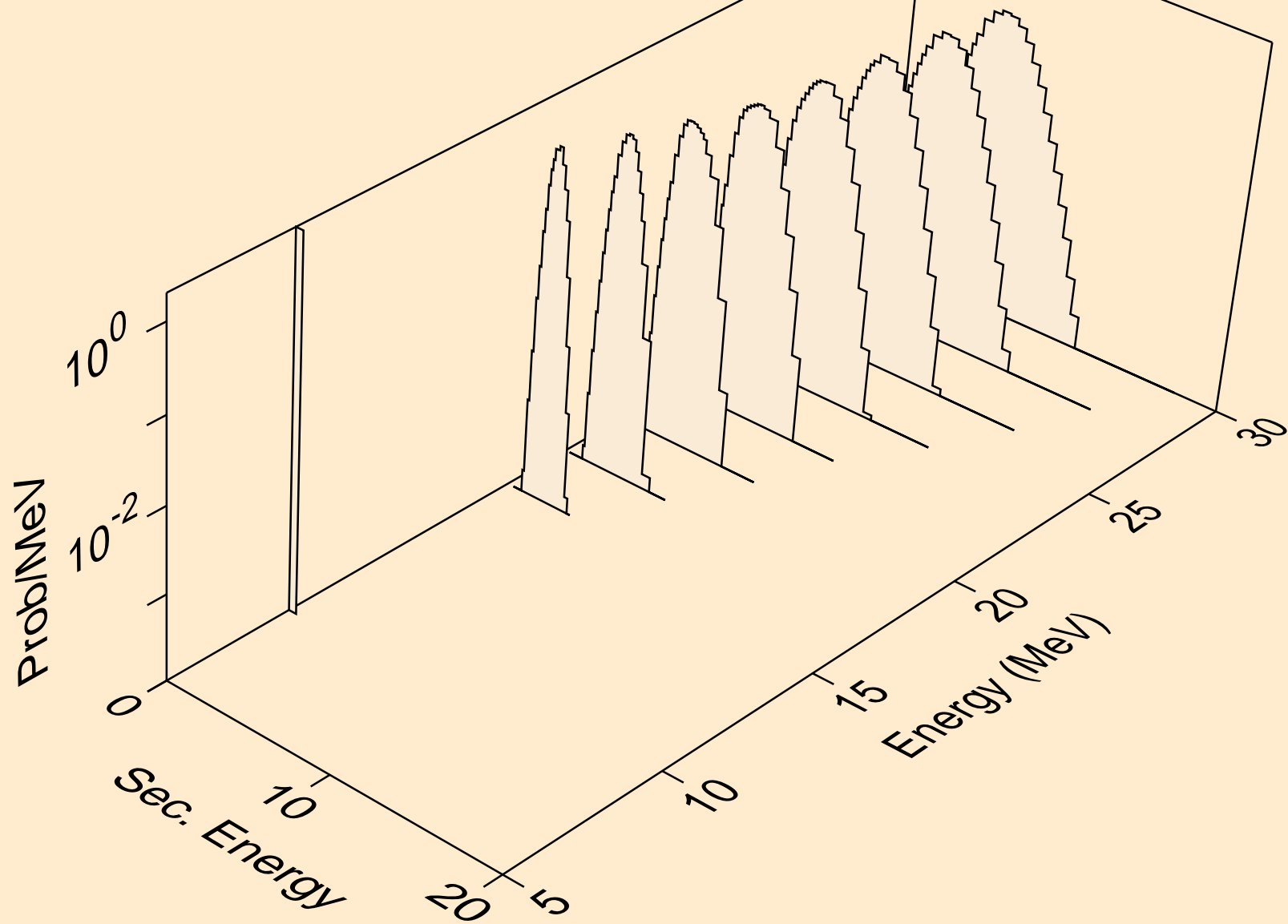




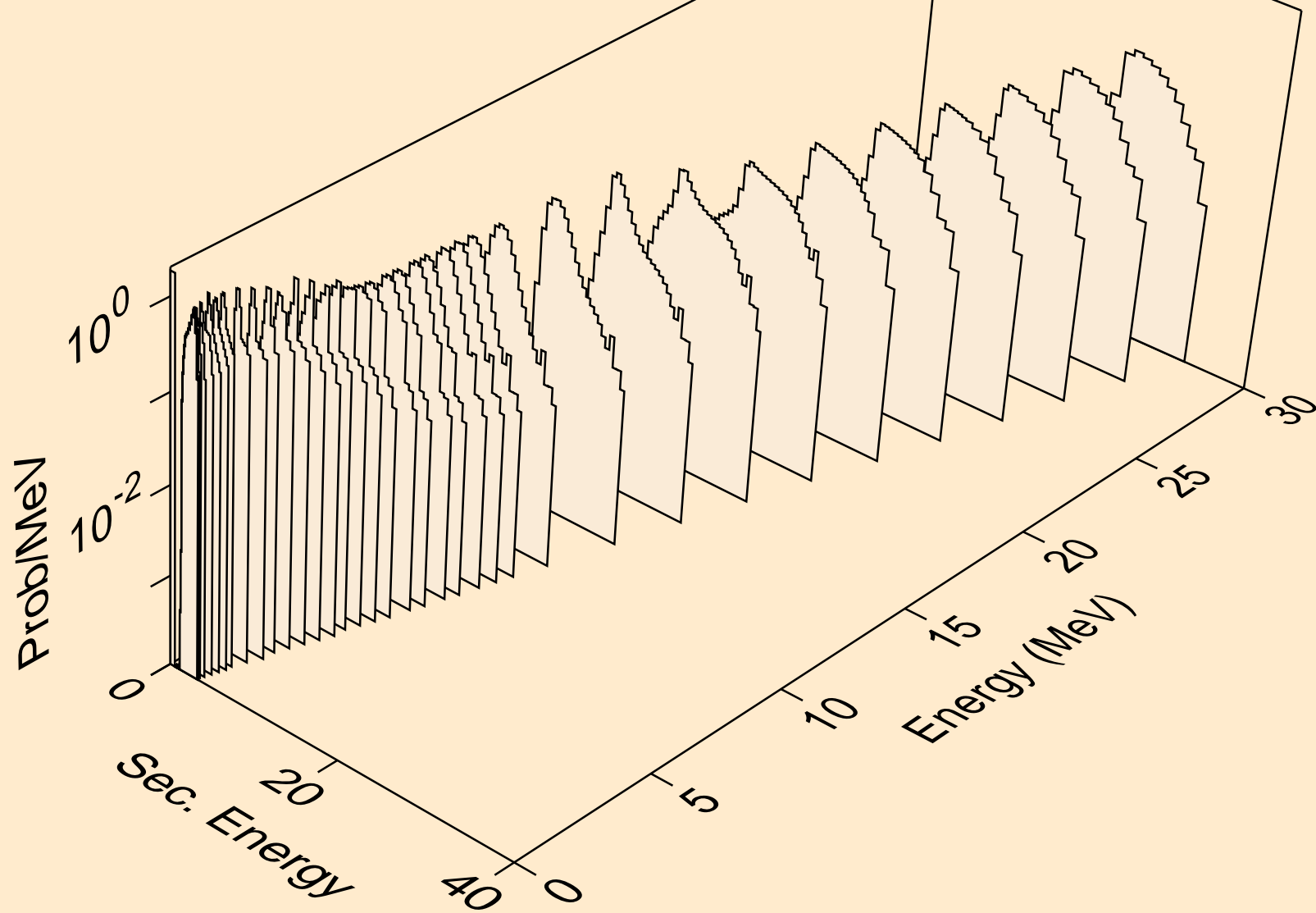
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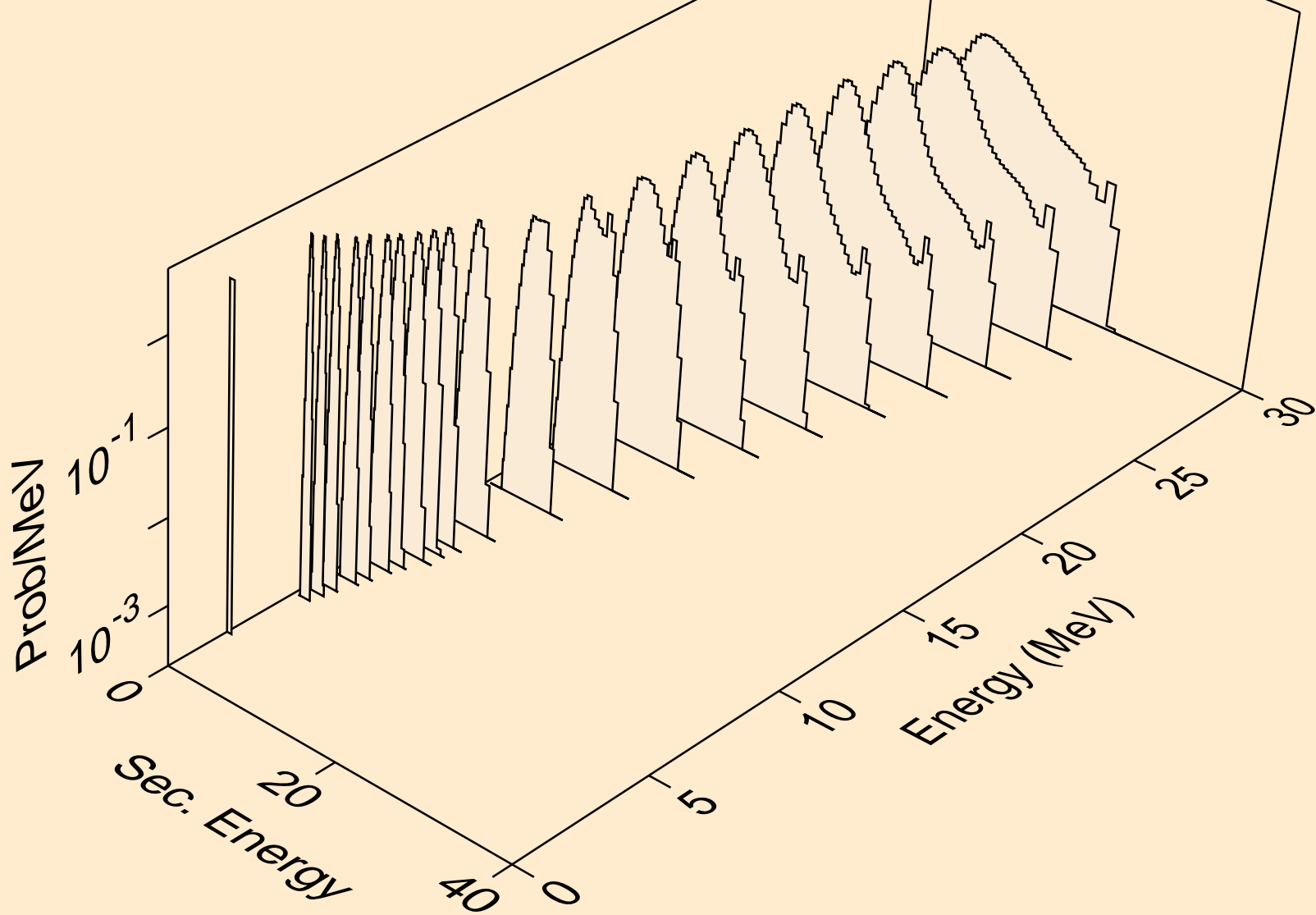
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protons from (n,npa)



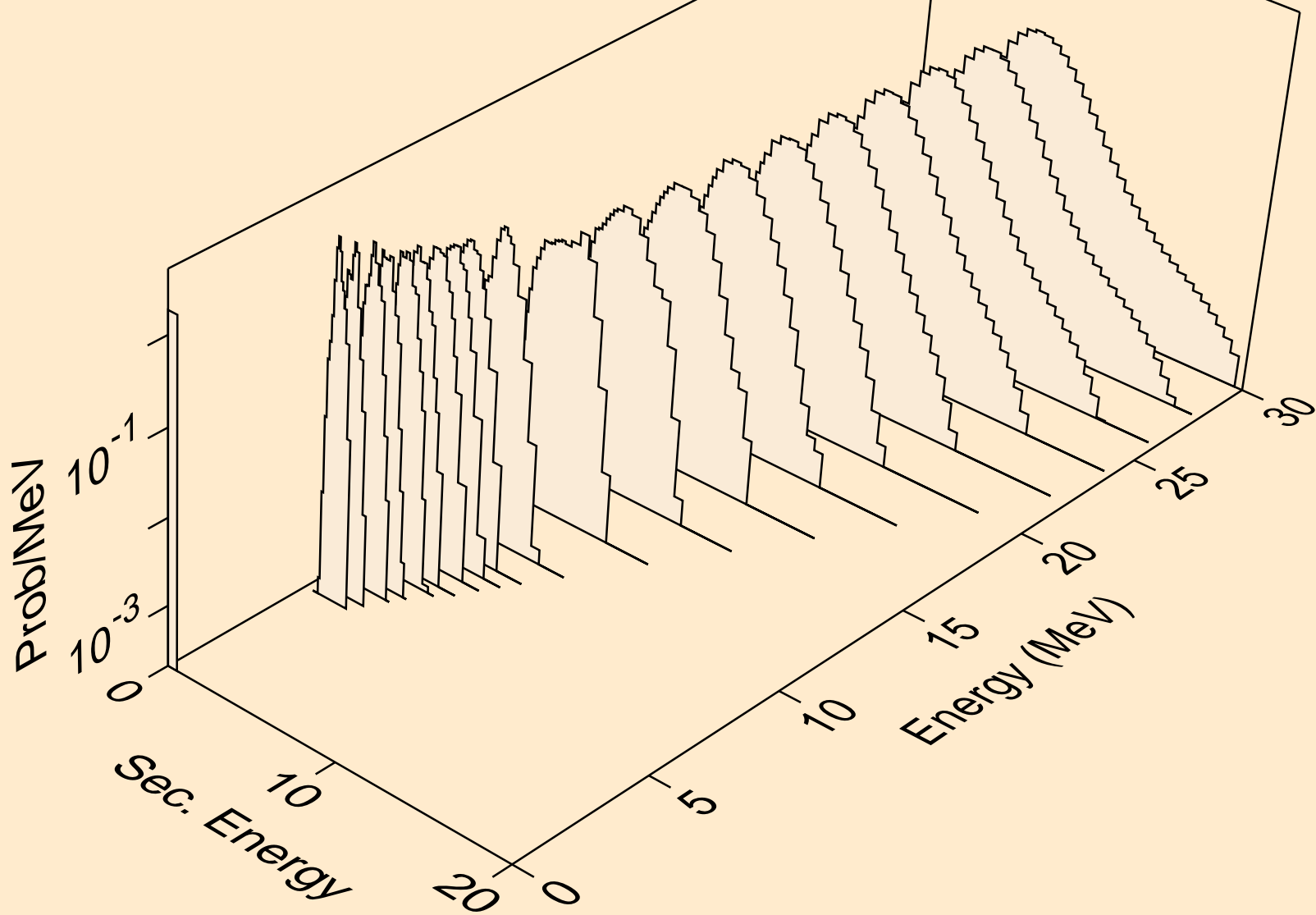
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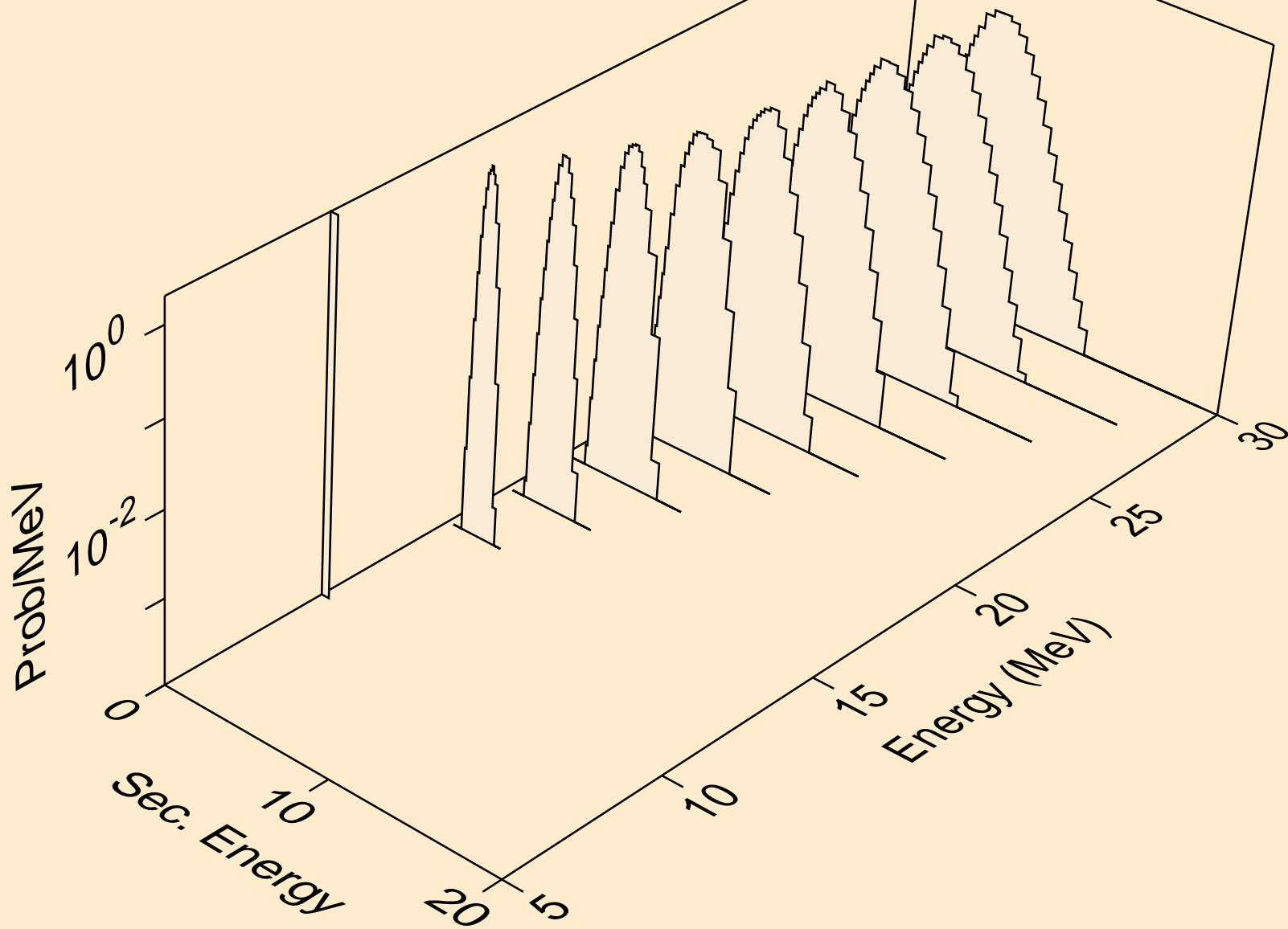
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protons from (n,2p)



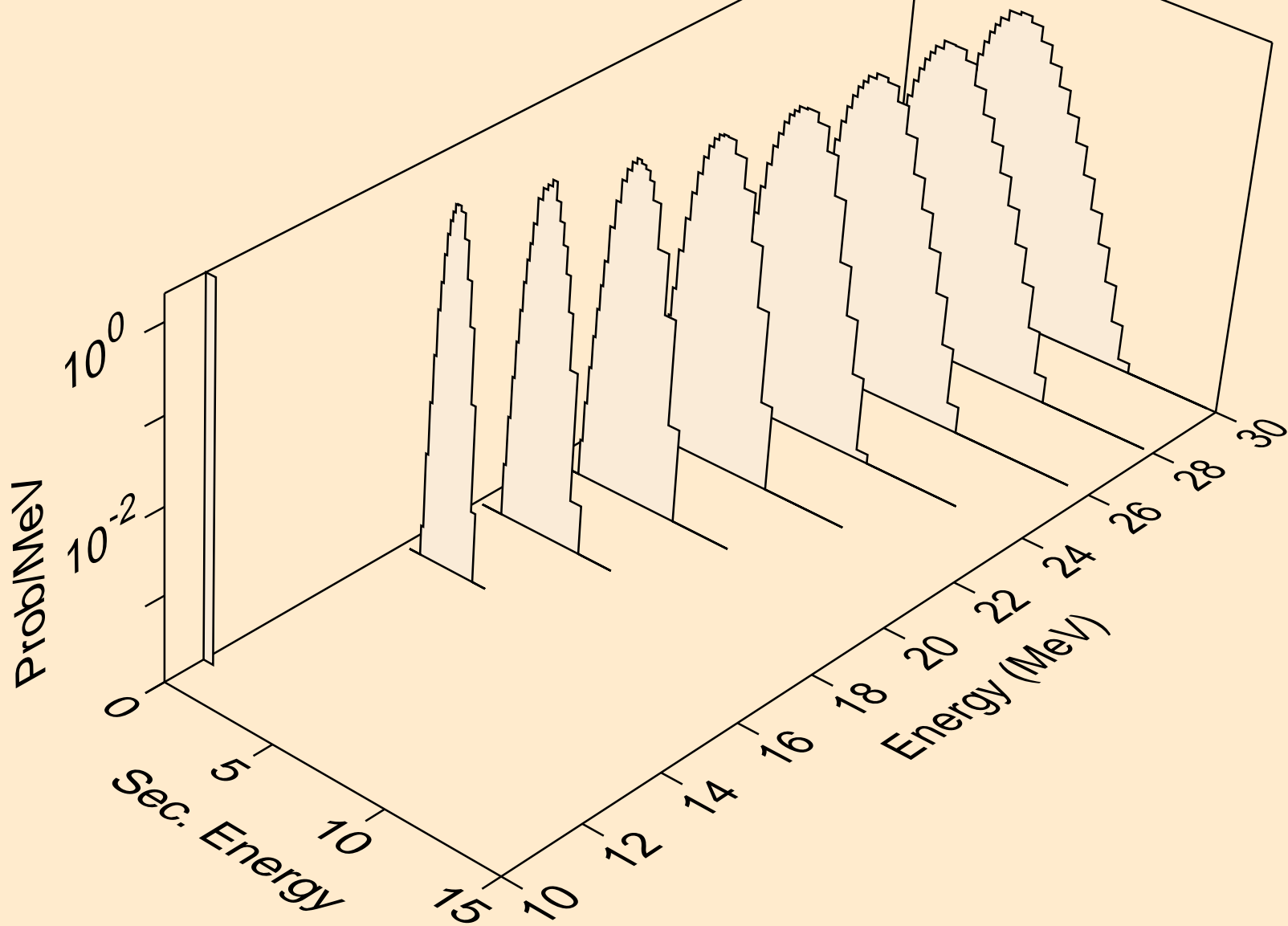
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protons from (n,p)



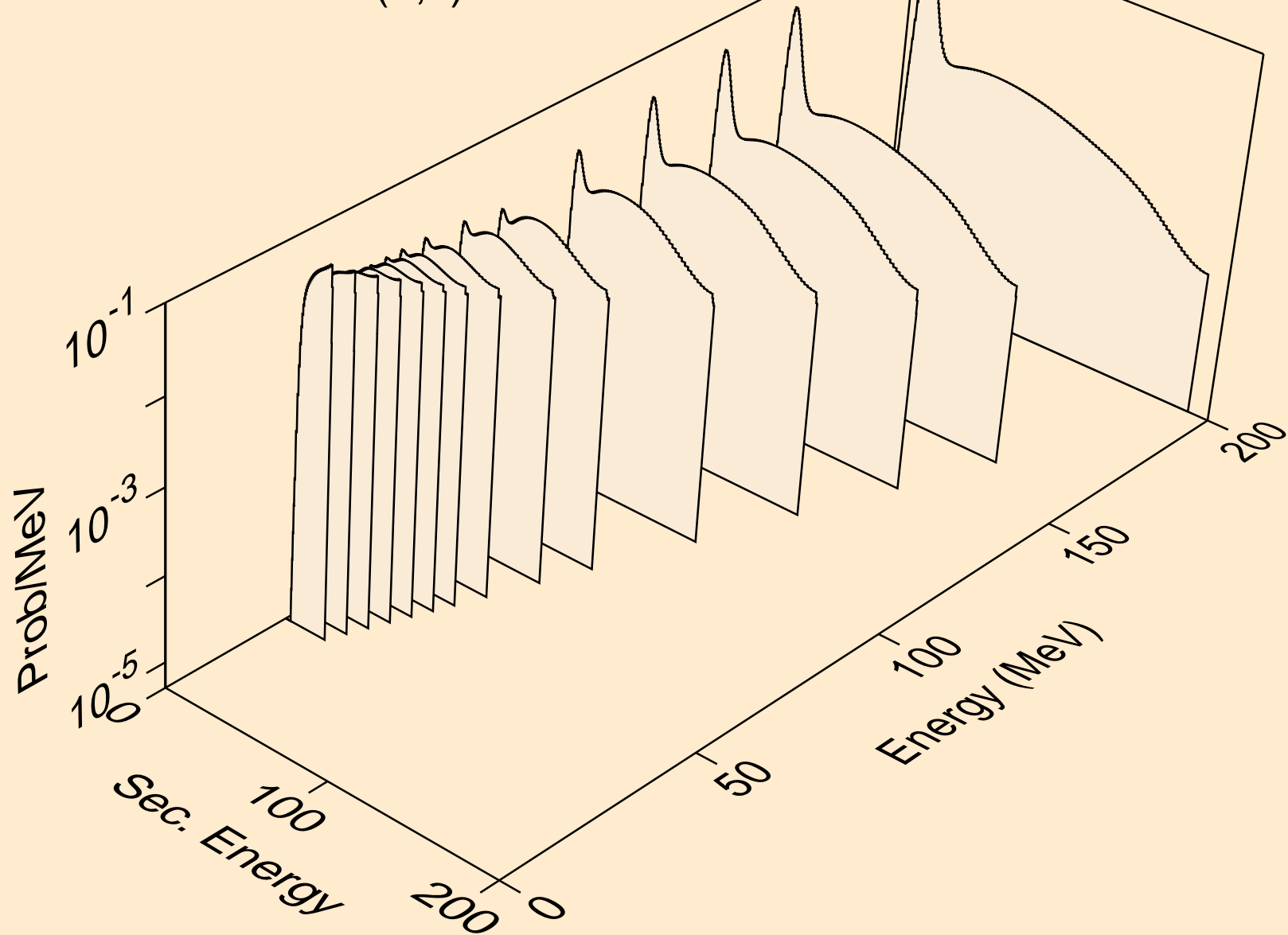
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protons from (n,pd)



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protons from (n,pt)

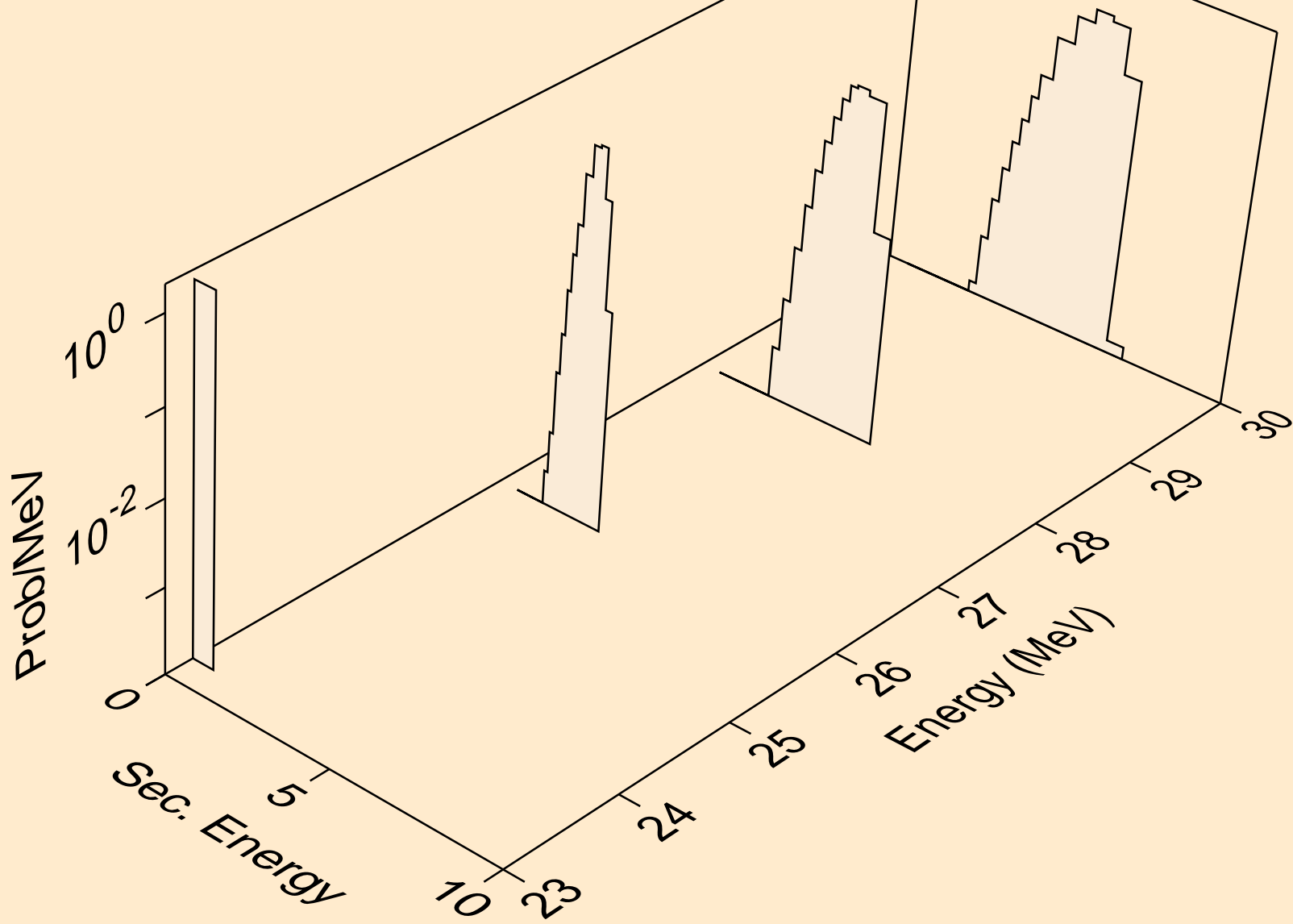


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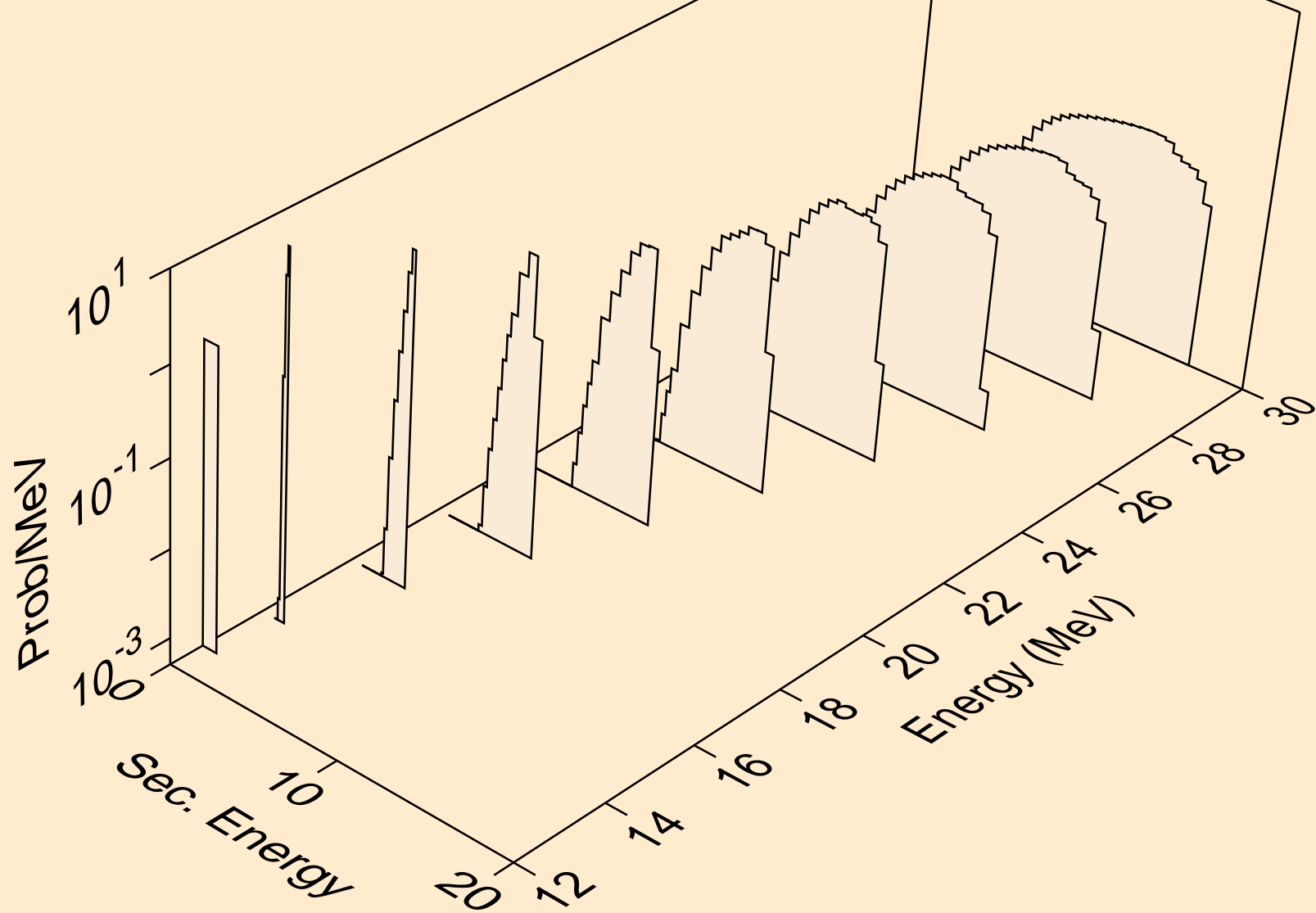




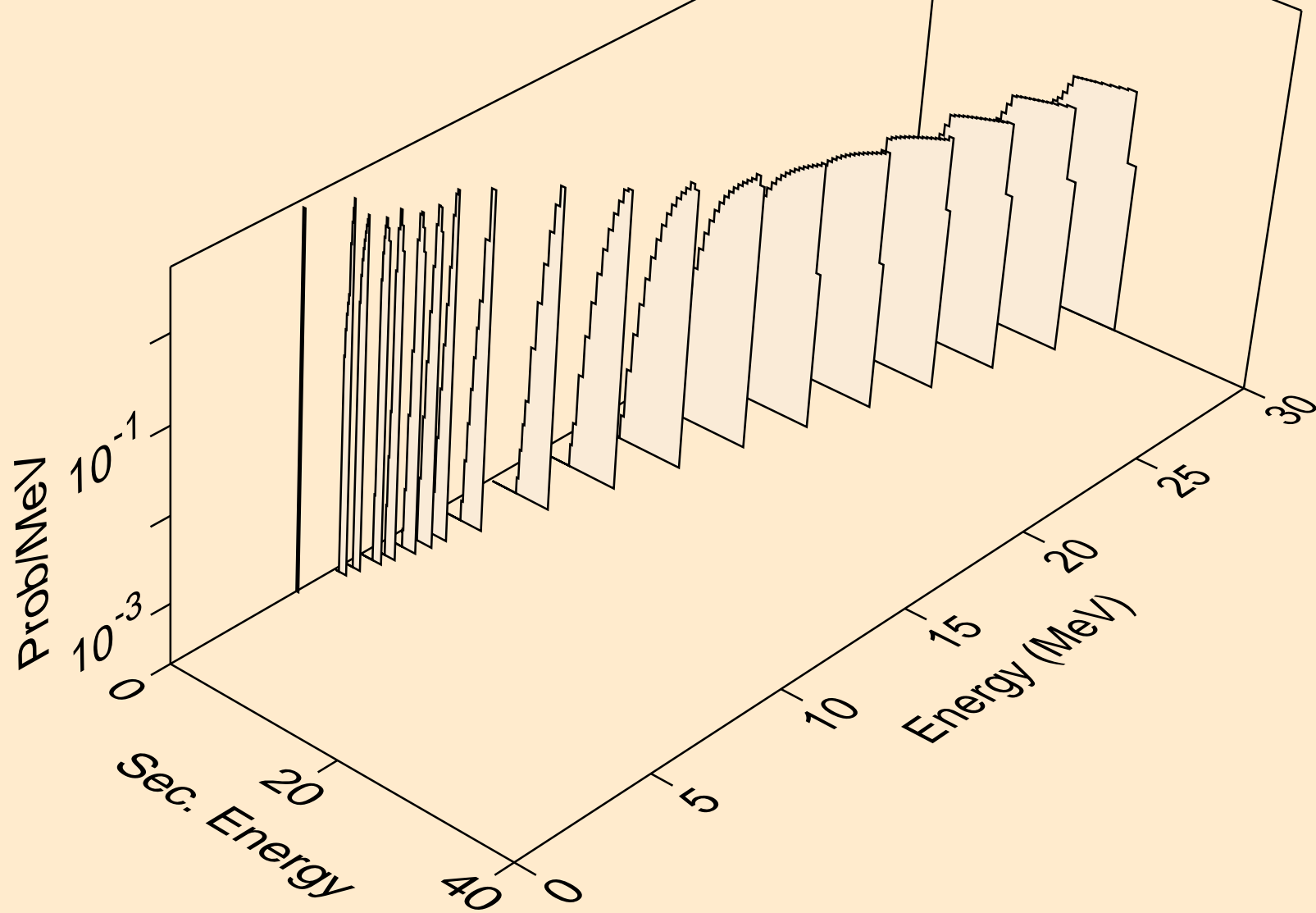
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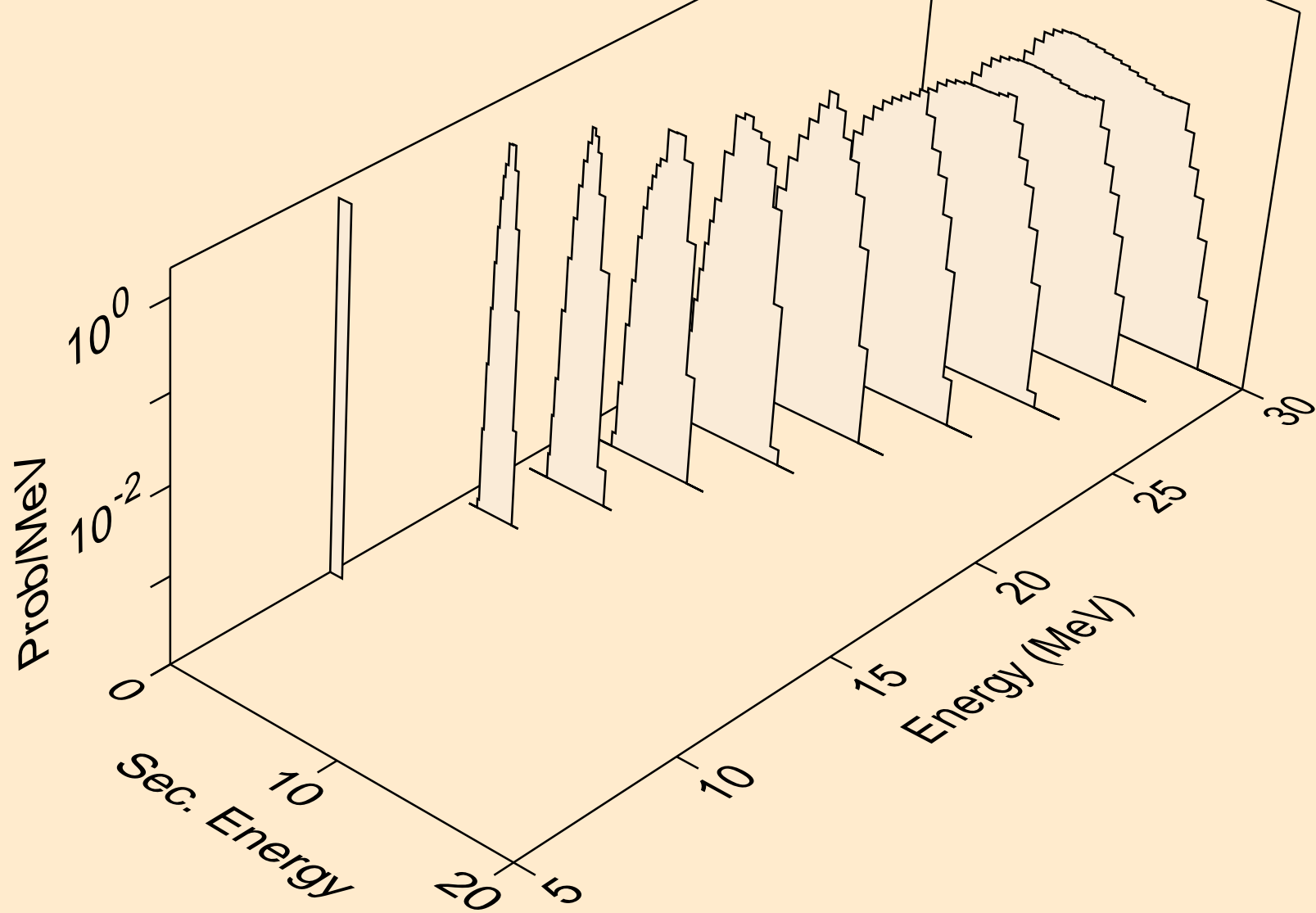
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deuterons from (n,n\*)d



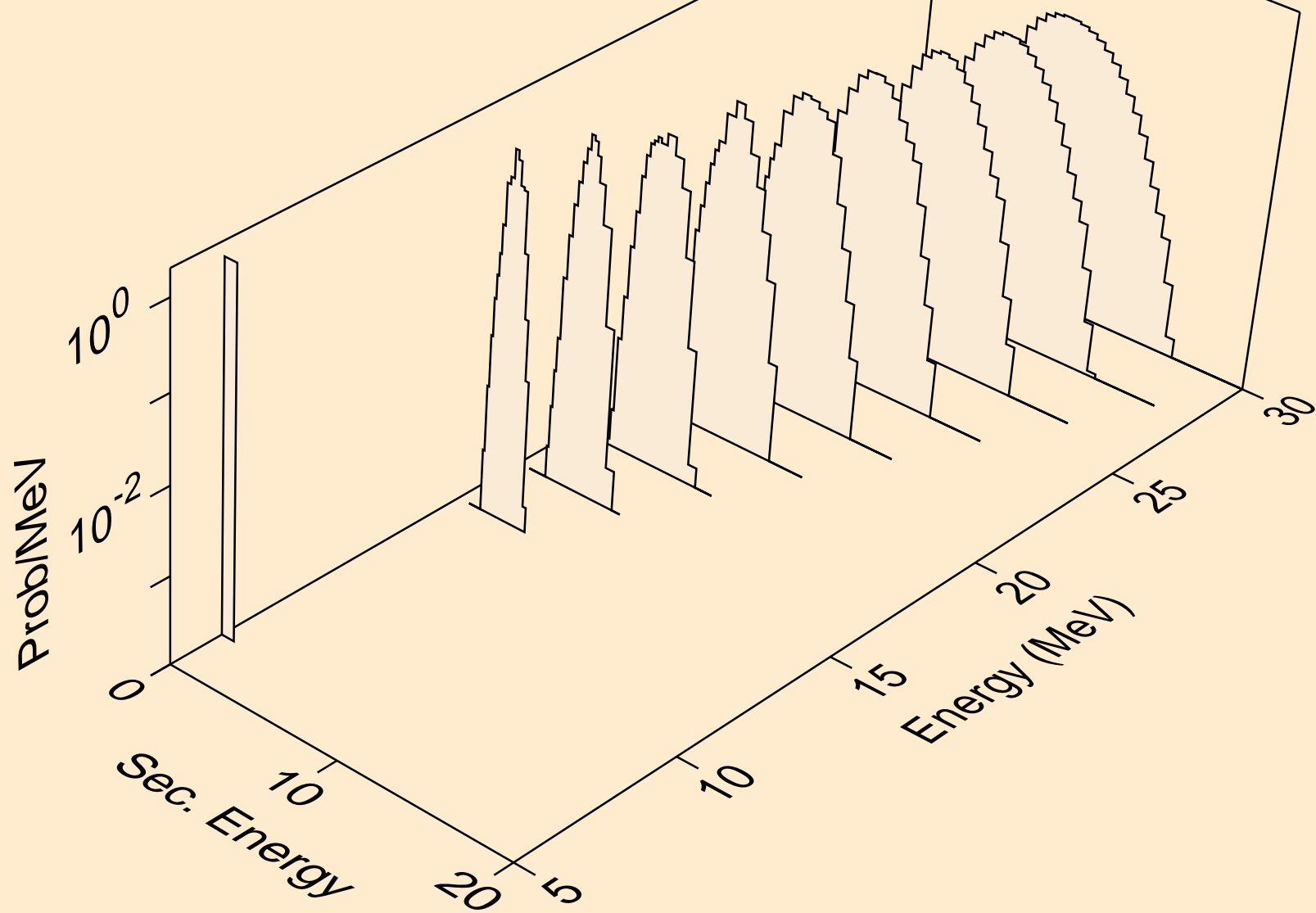
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deuterons from (n,d)



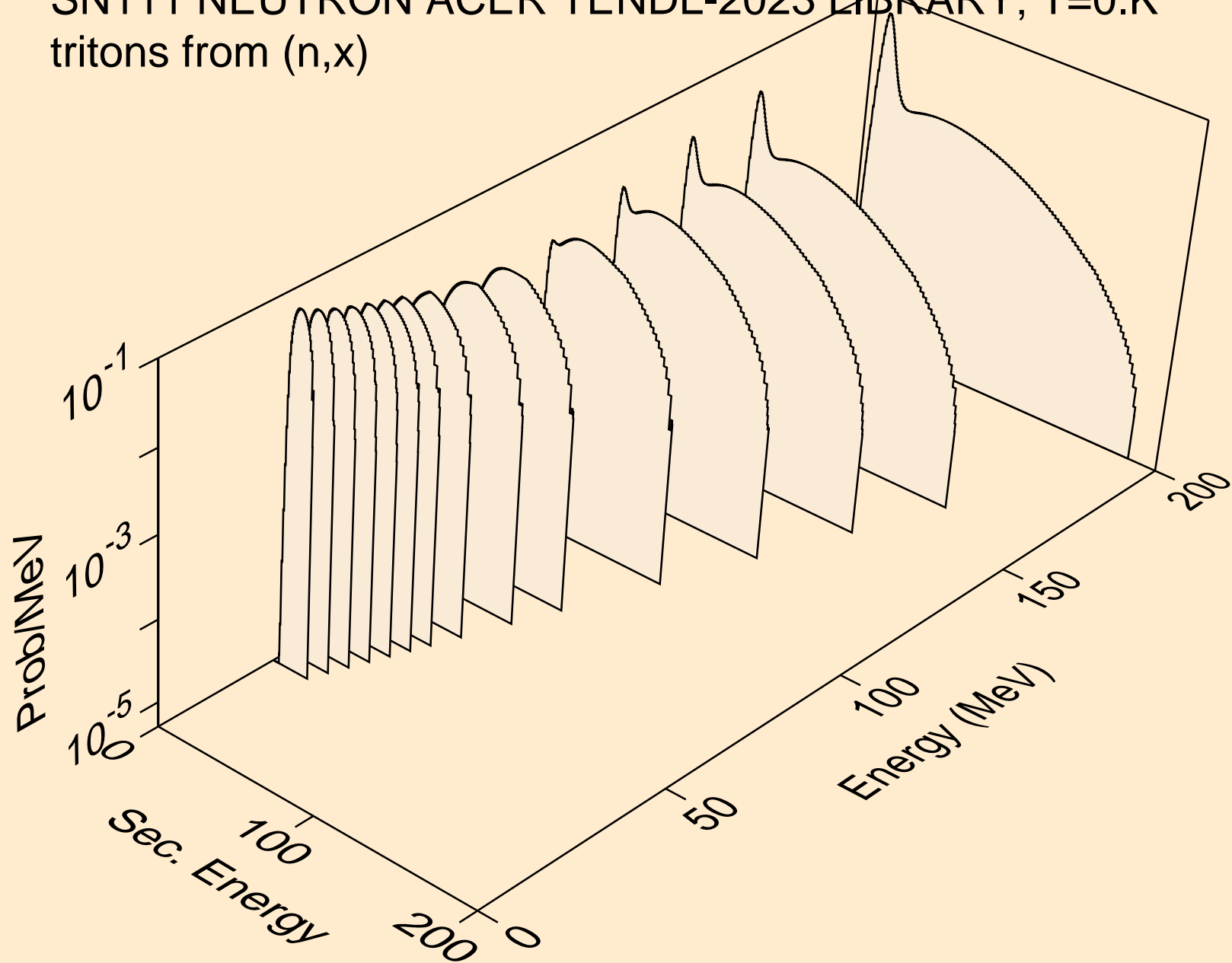
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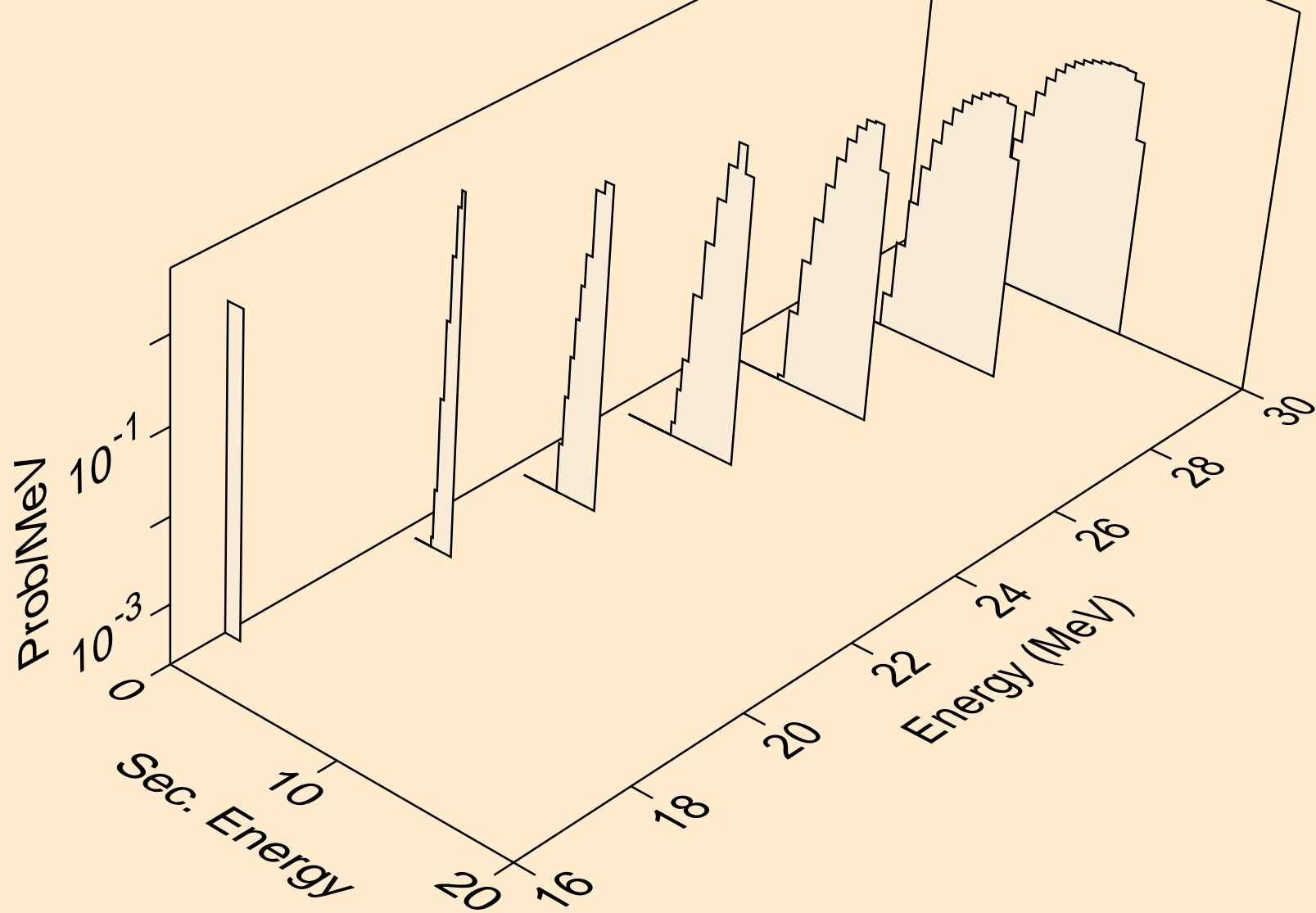
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deuterons from (n,da)



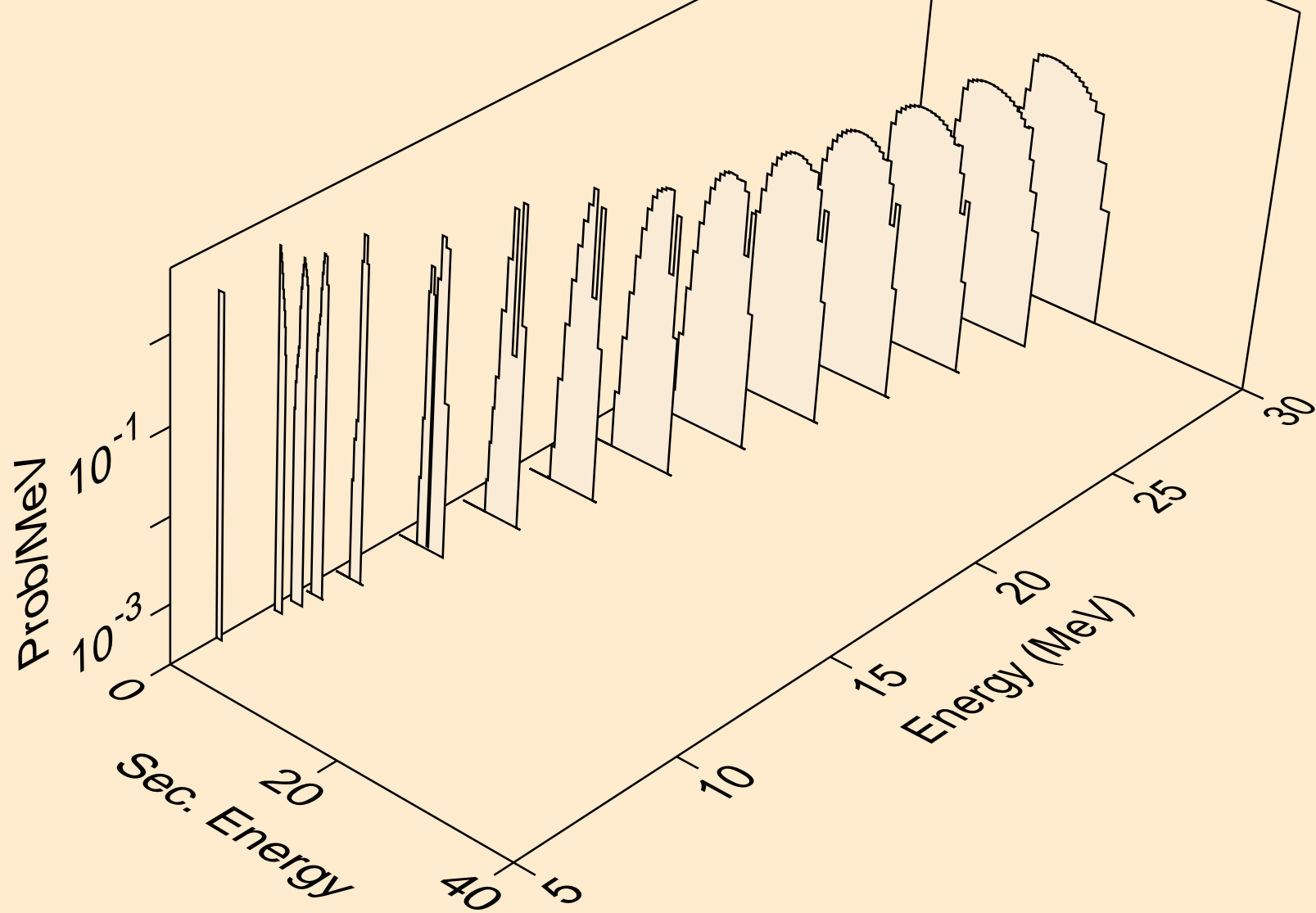
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tritons from (n,x)



SN111 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
tritons from (n,n\*)t

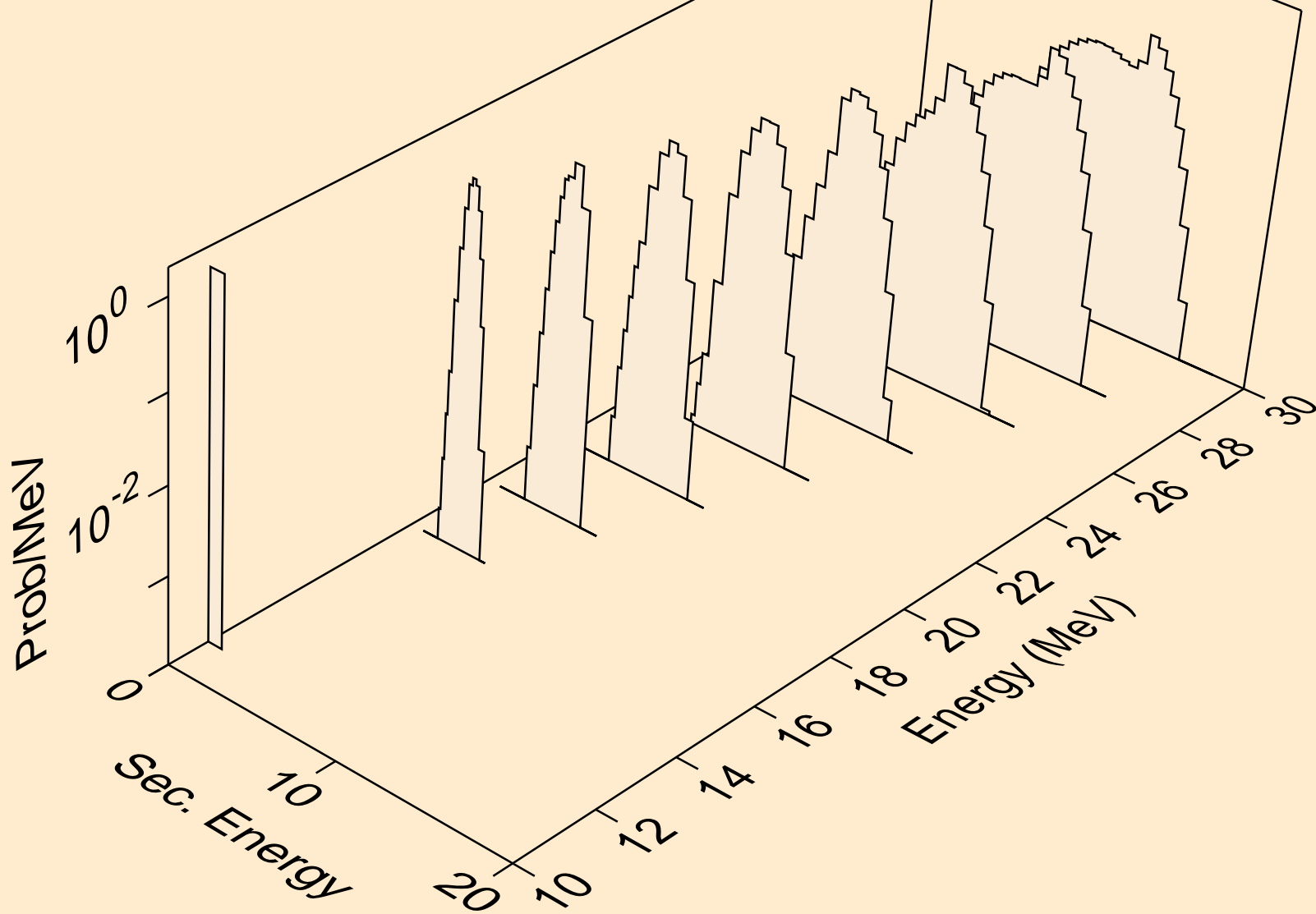


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tritons from (n,t)

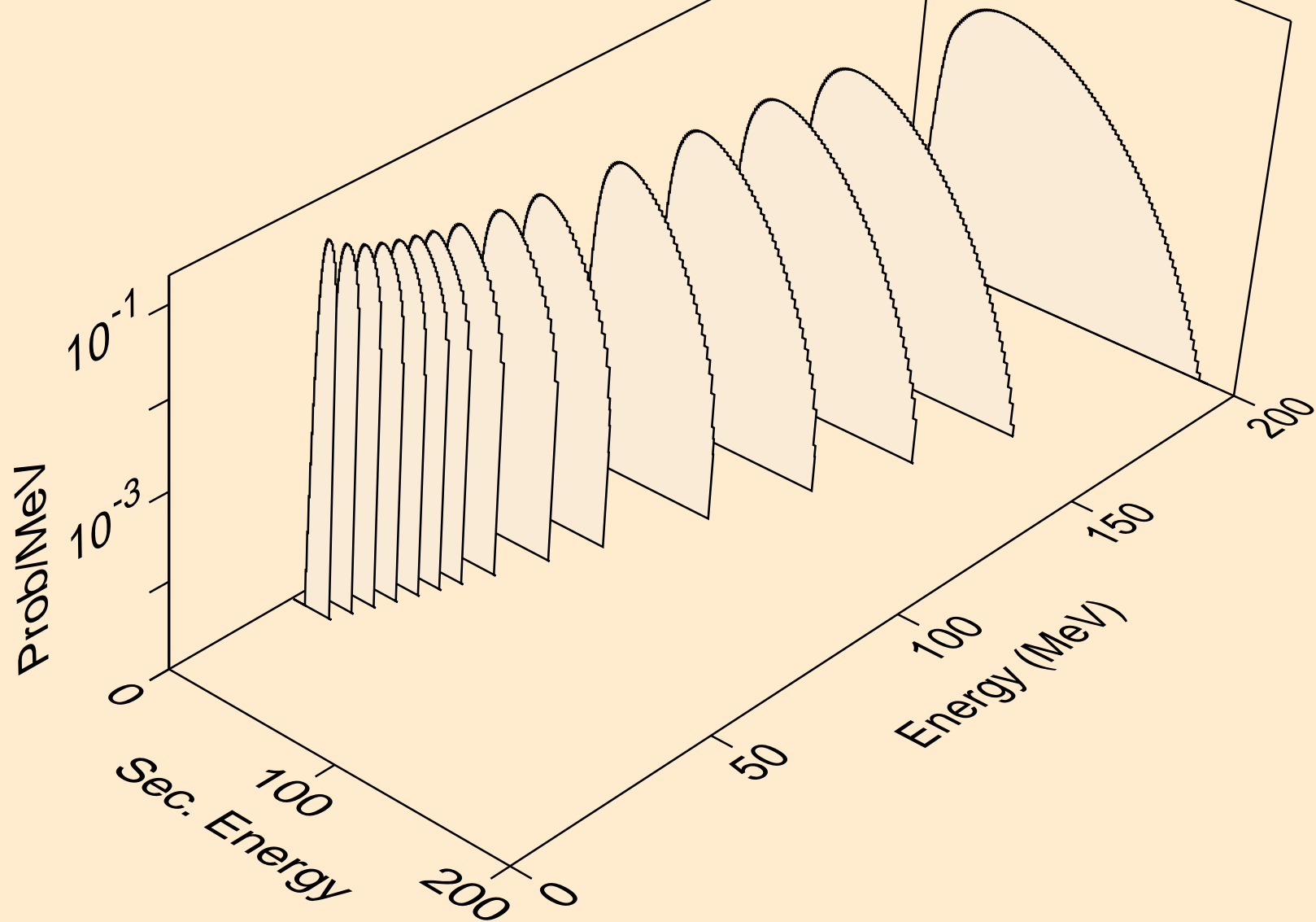




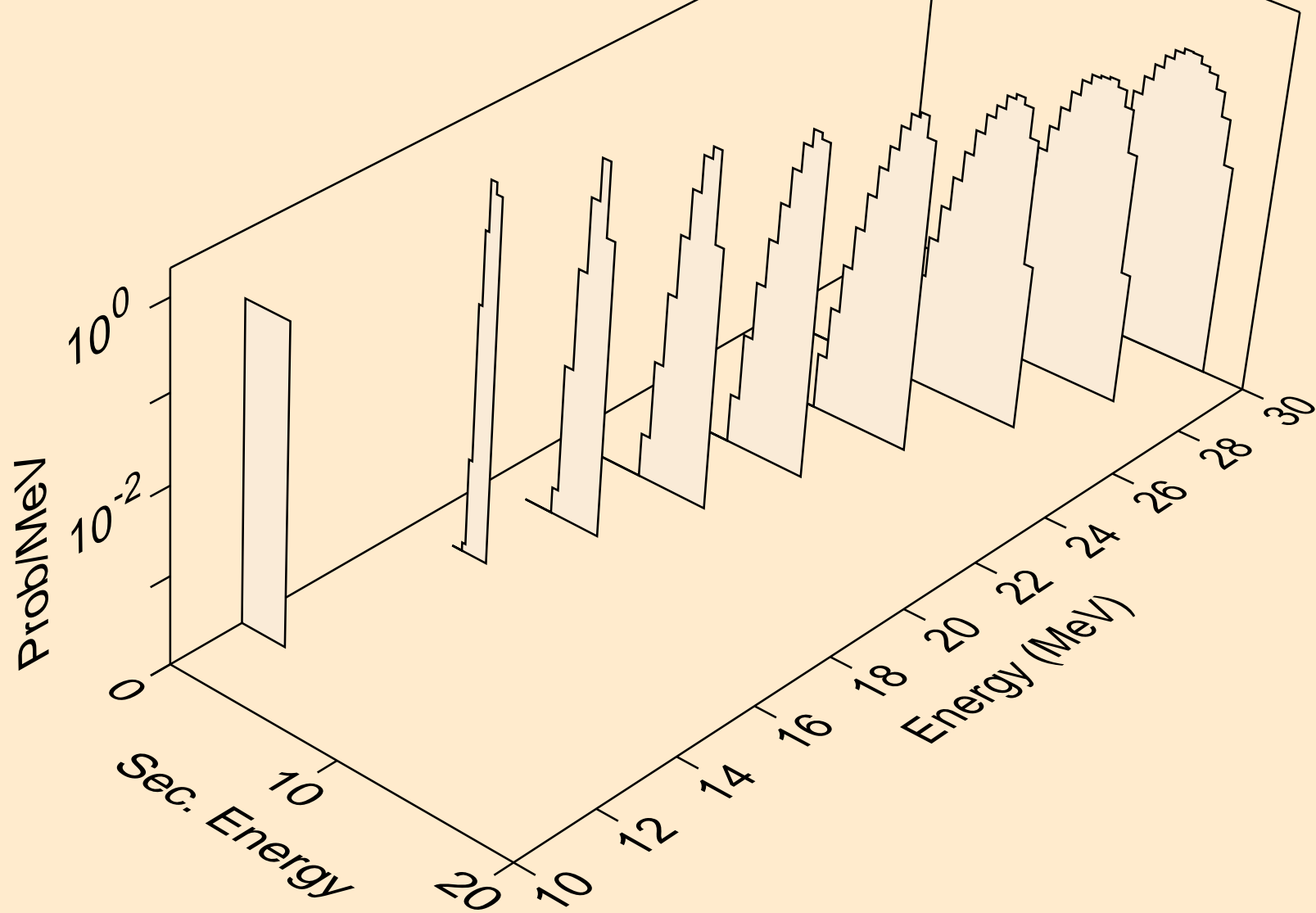
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tritons from (n,pt)



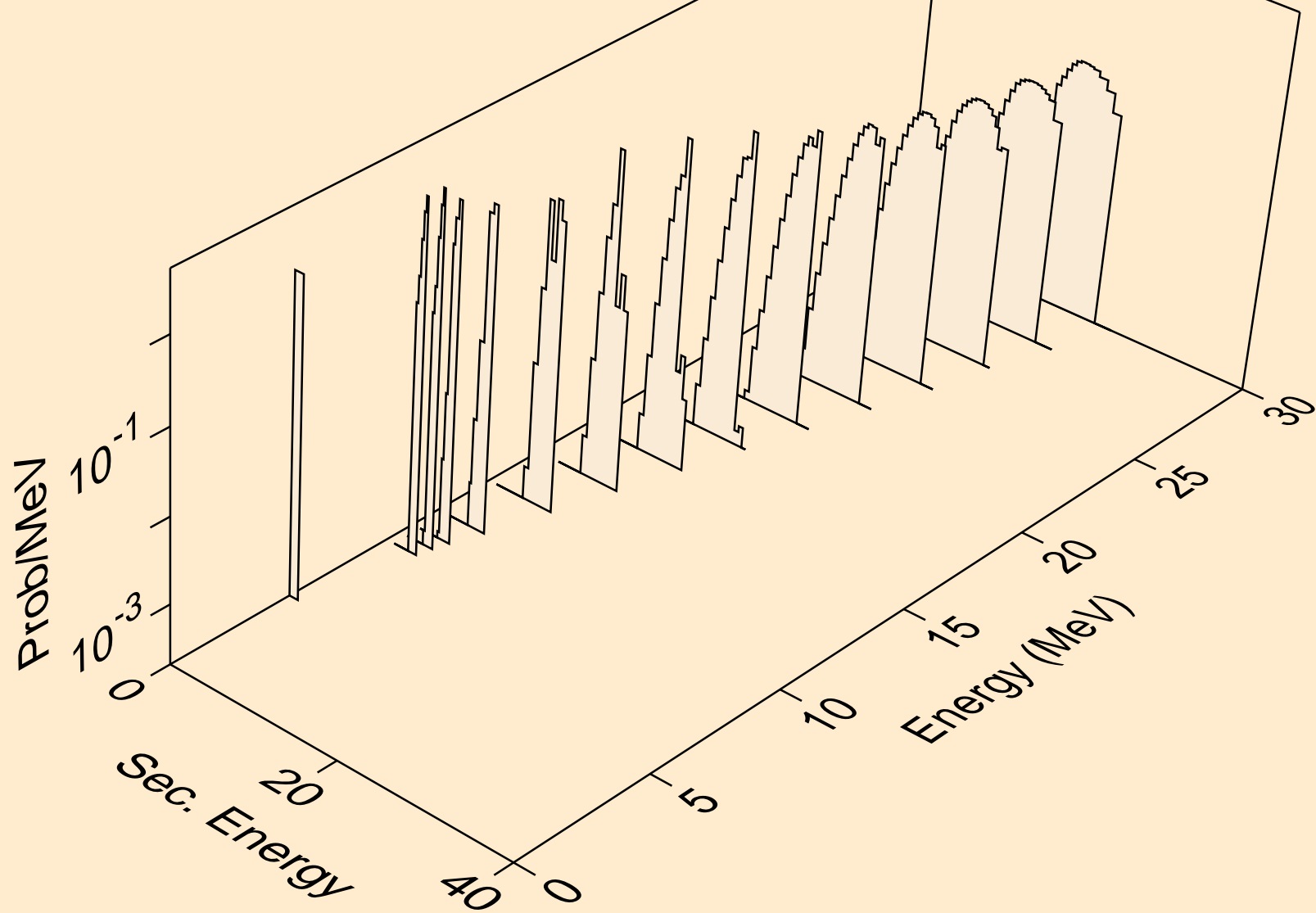
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he3s from (n,x)



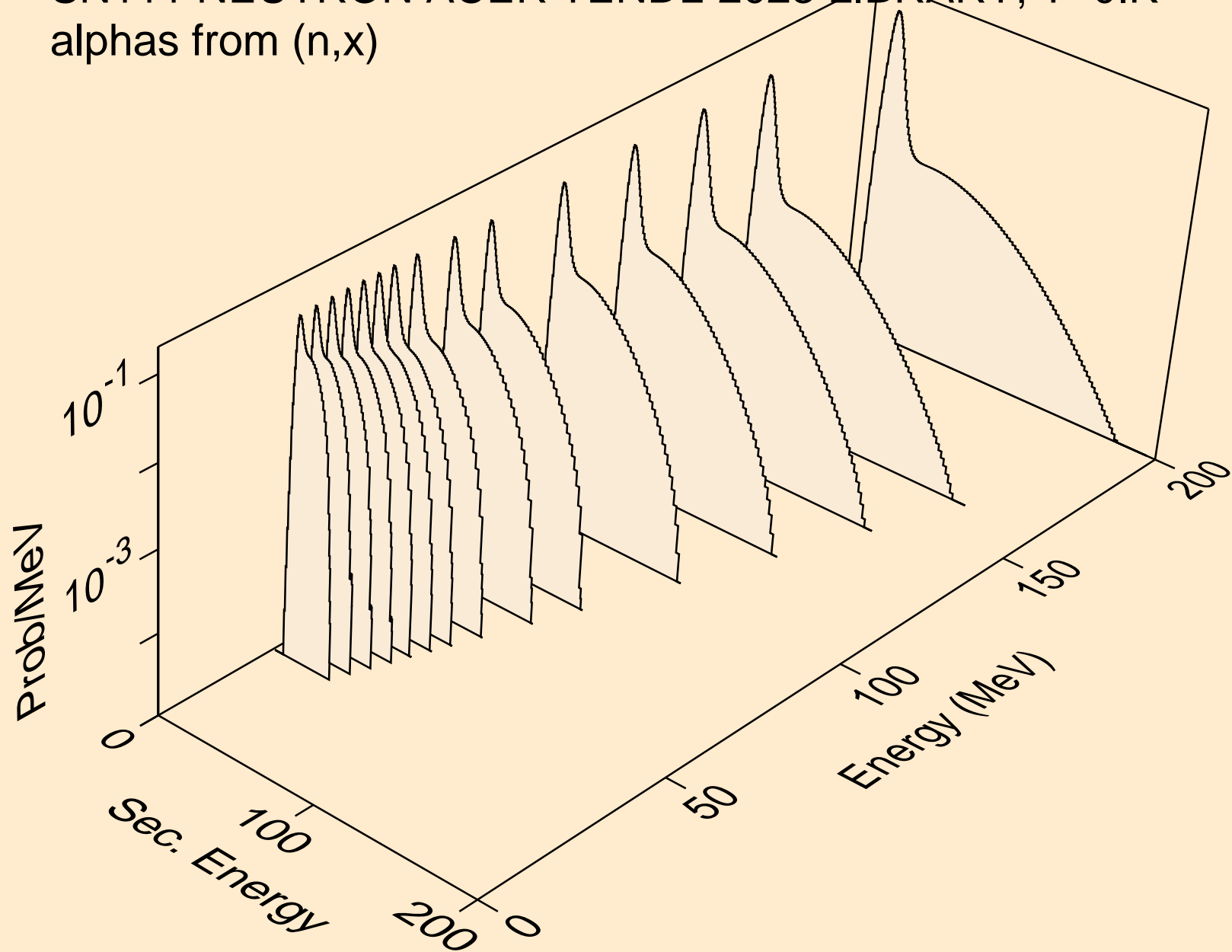
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he3s from (n,n\*)he3



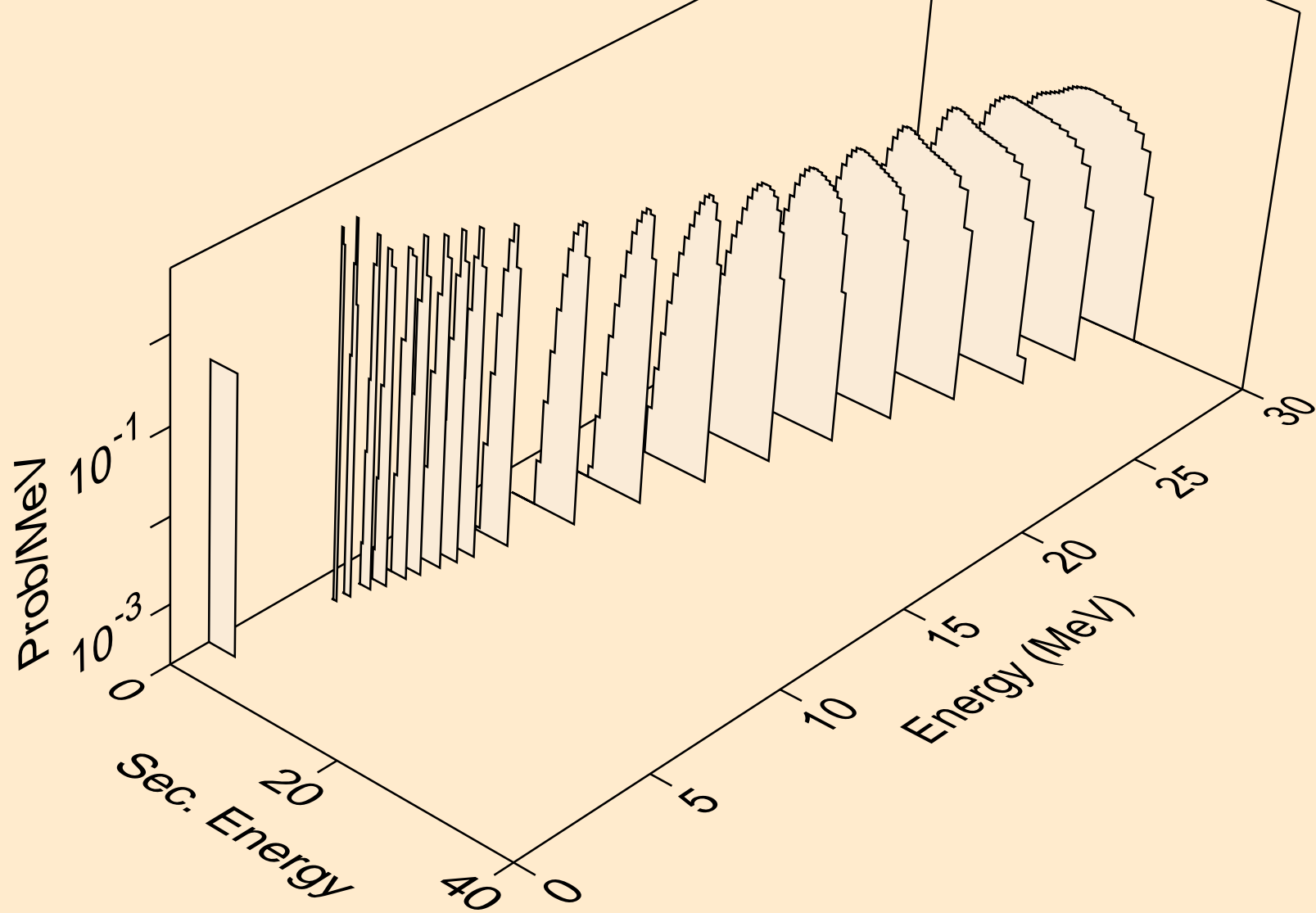
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he3s from (n,he3)



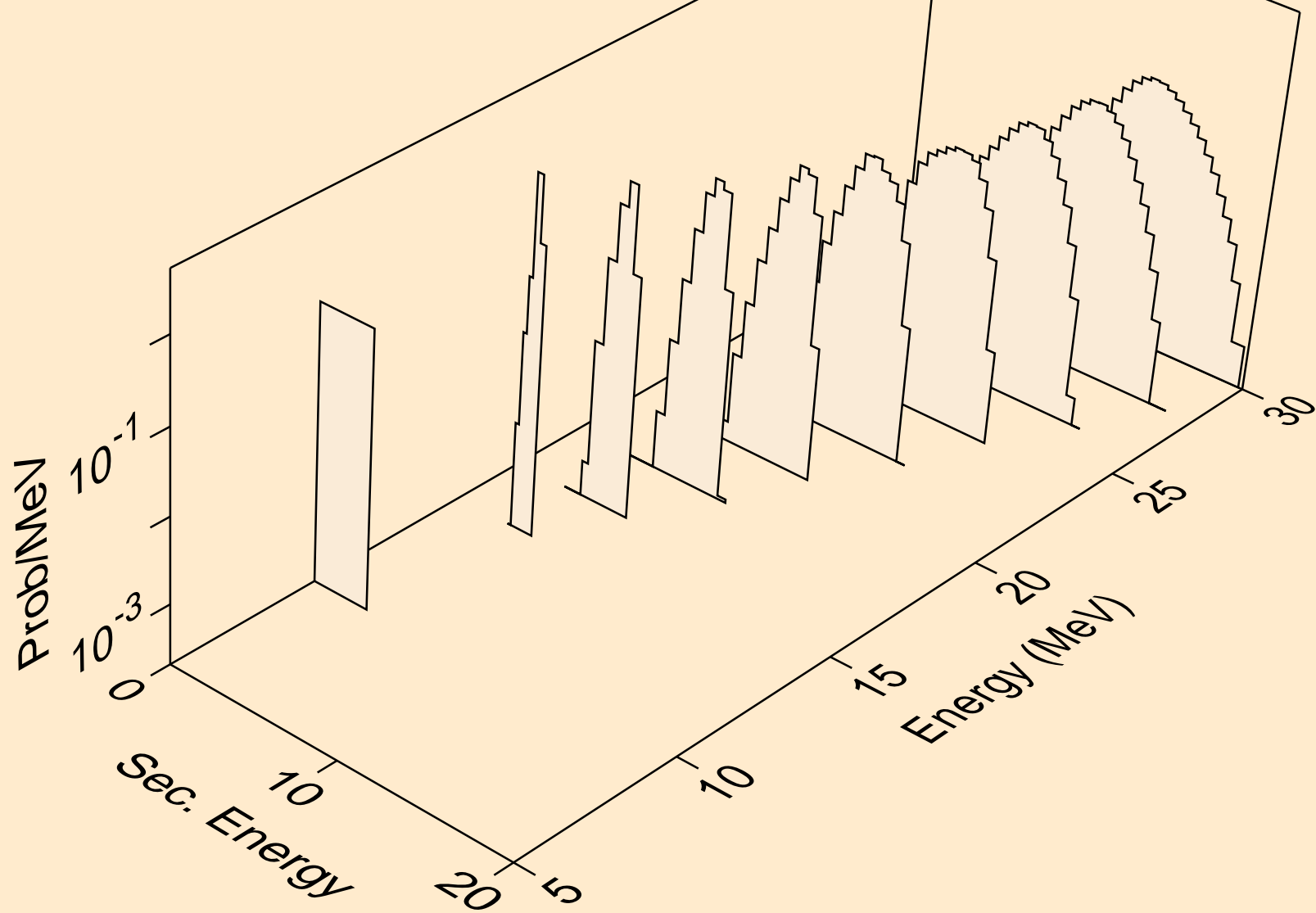
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alphas from (n,x)



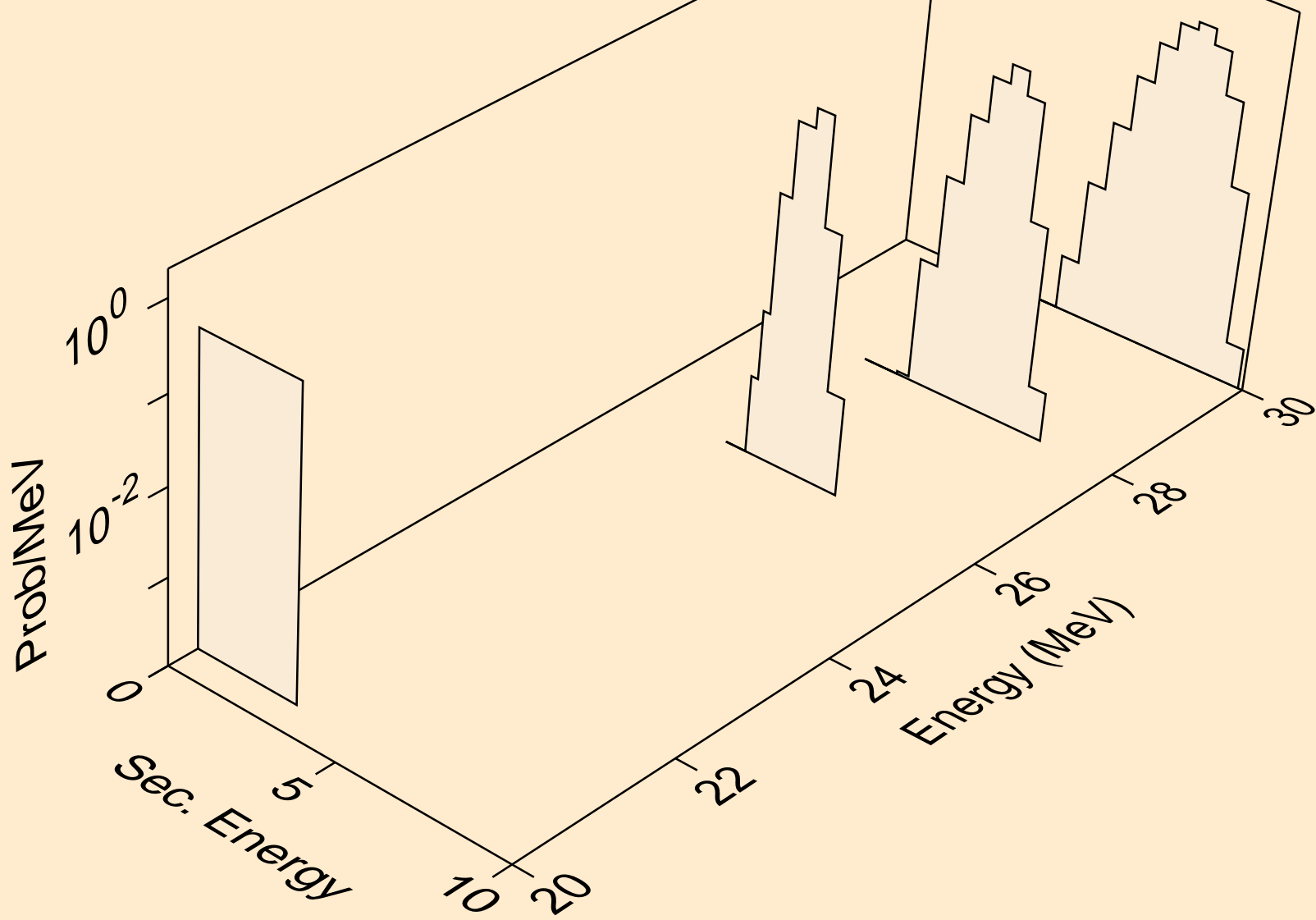
SN111 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,n\*)a



SN111 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,2n)a

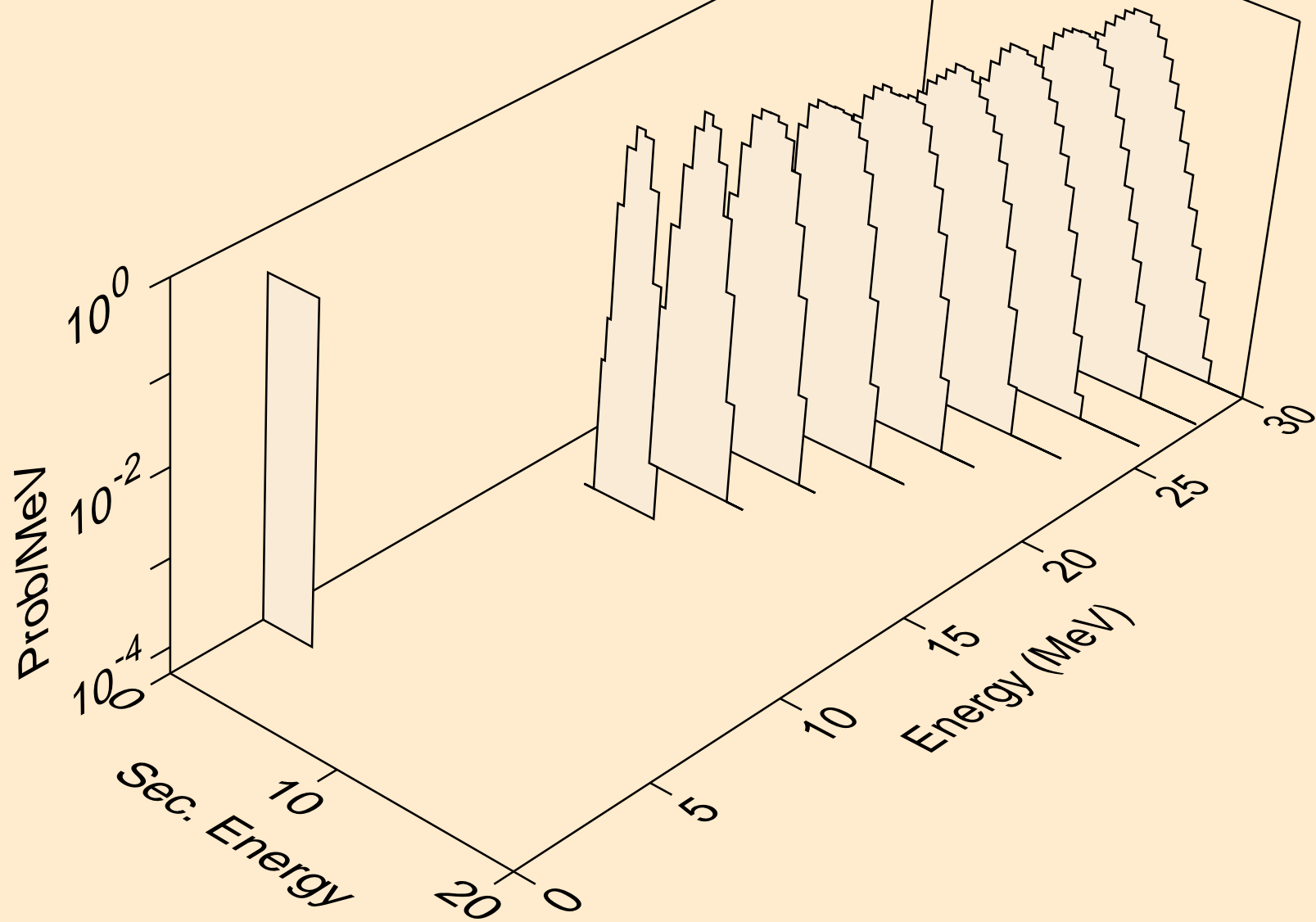


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alphas from (n,3n)a

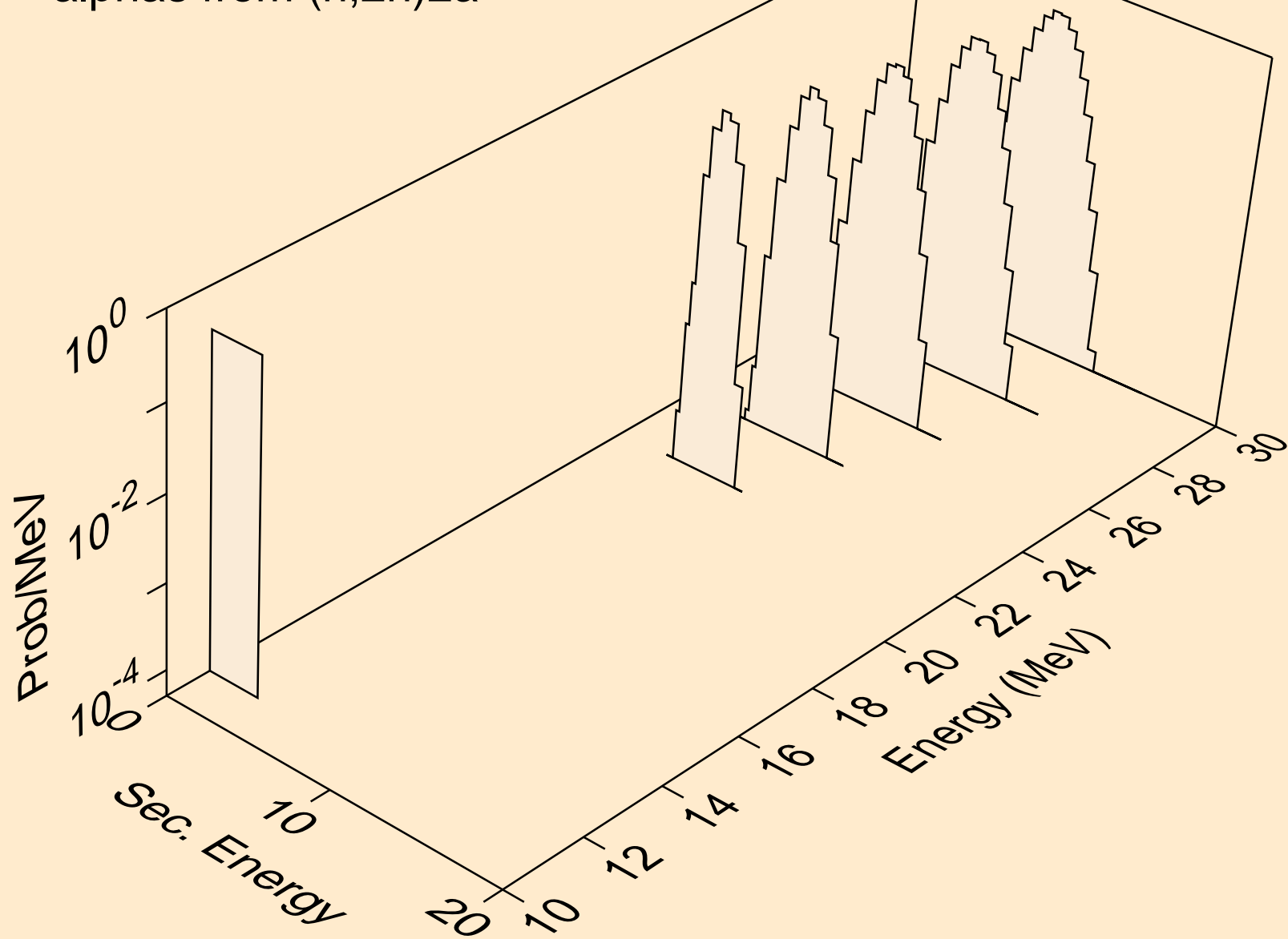




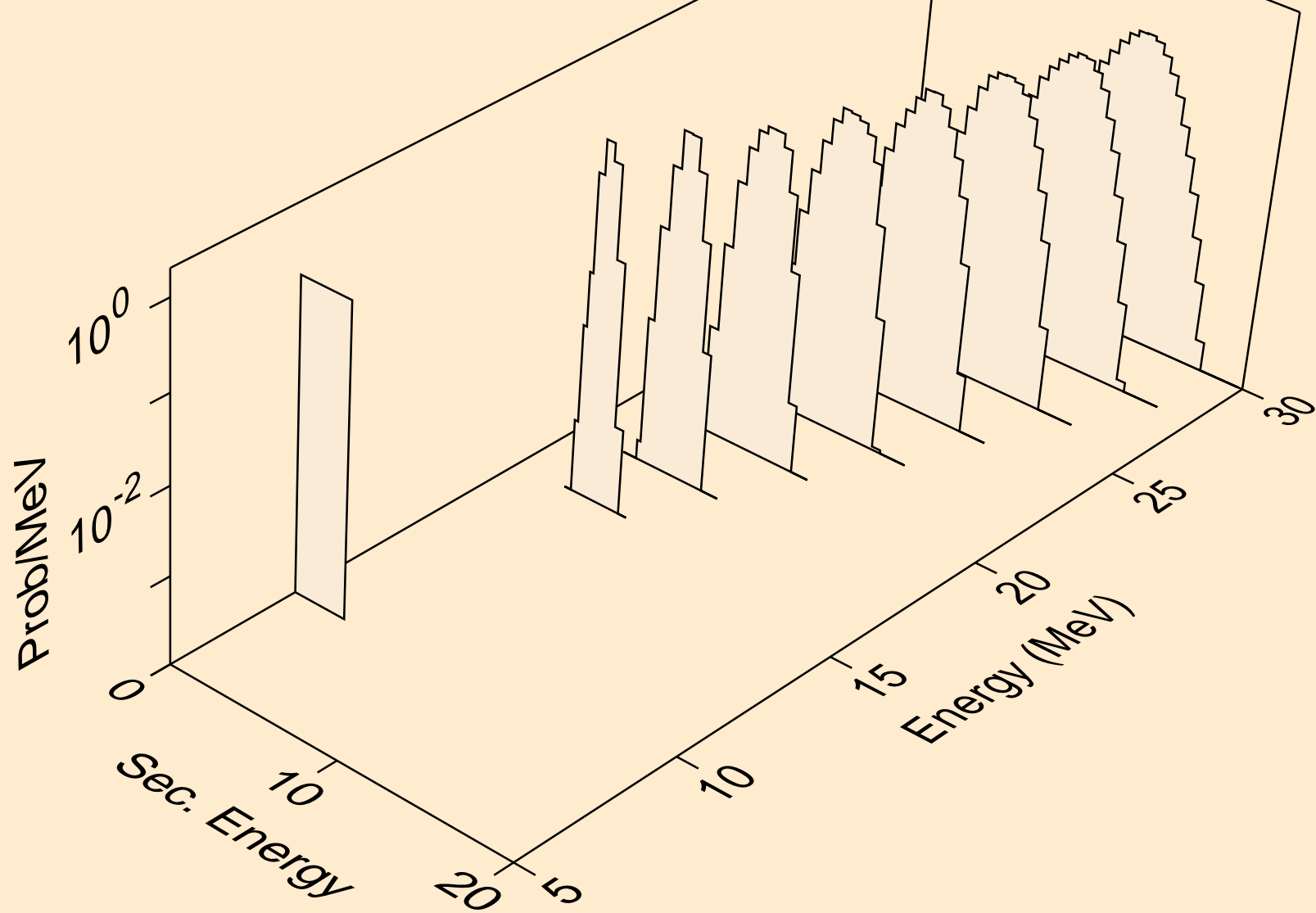
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alphas from (n,n\*)2a



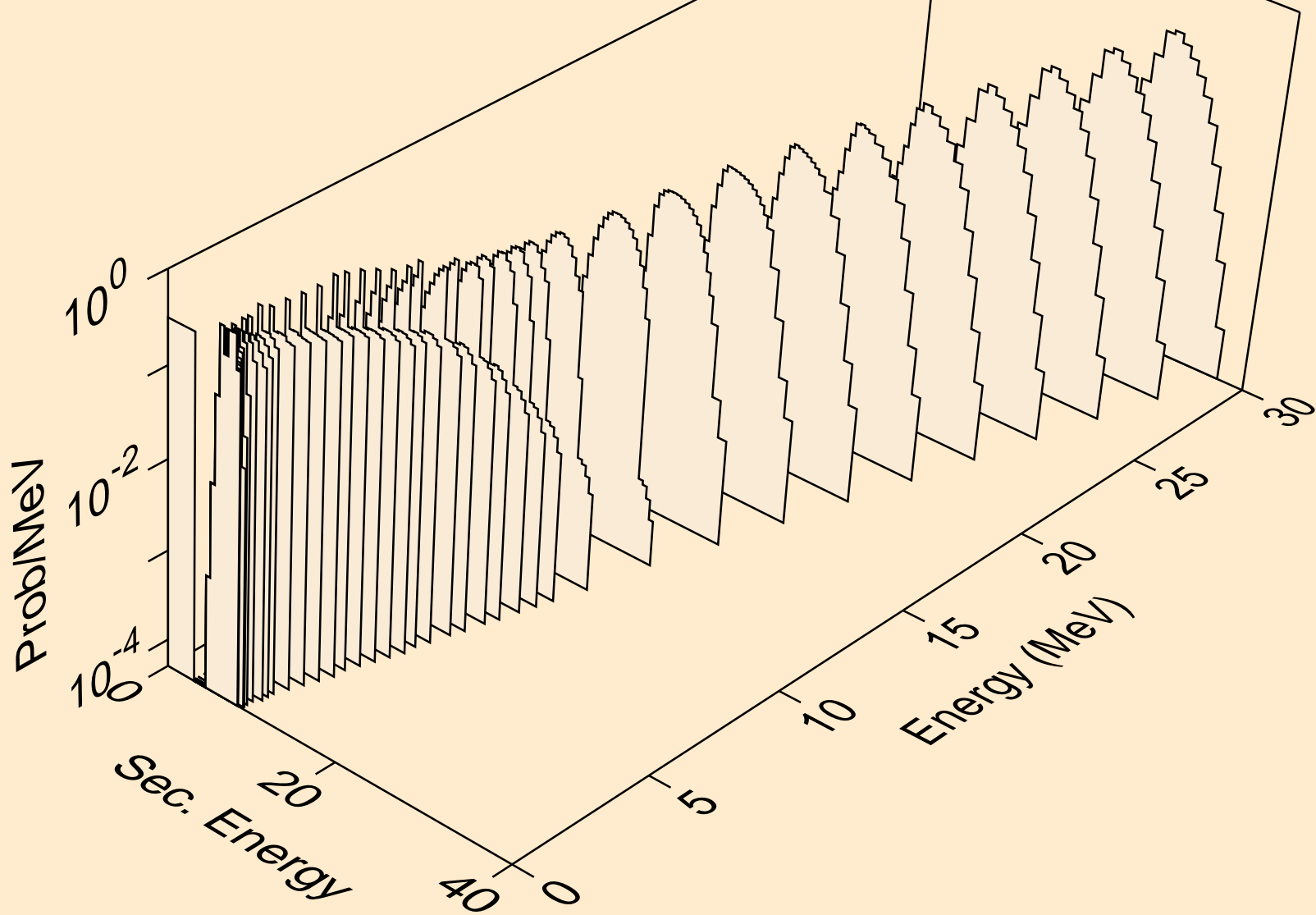
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alphas from (n,2n)2a



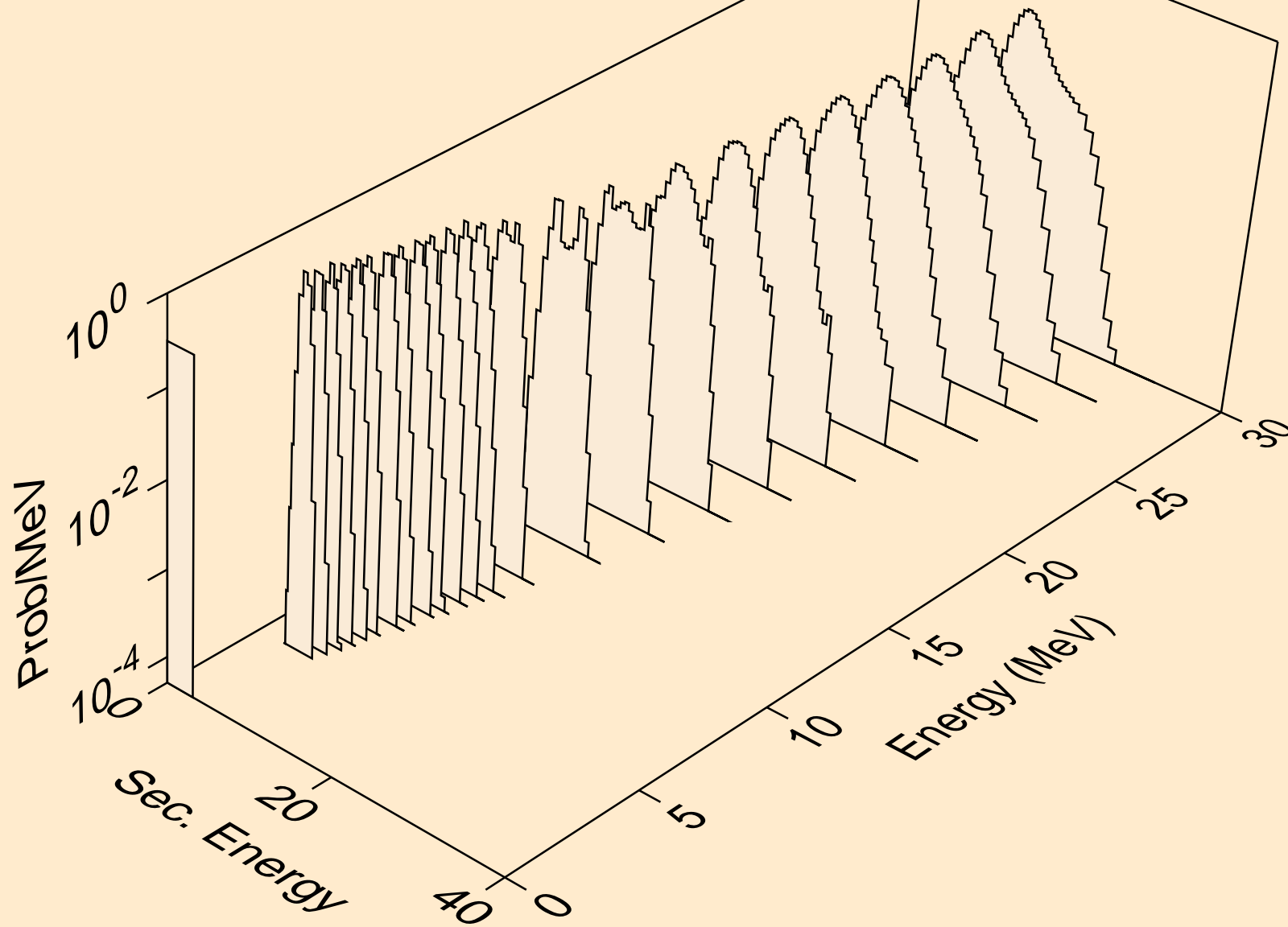
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alphas from (n,npa)



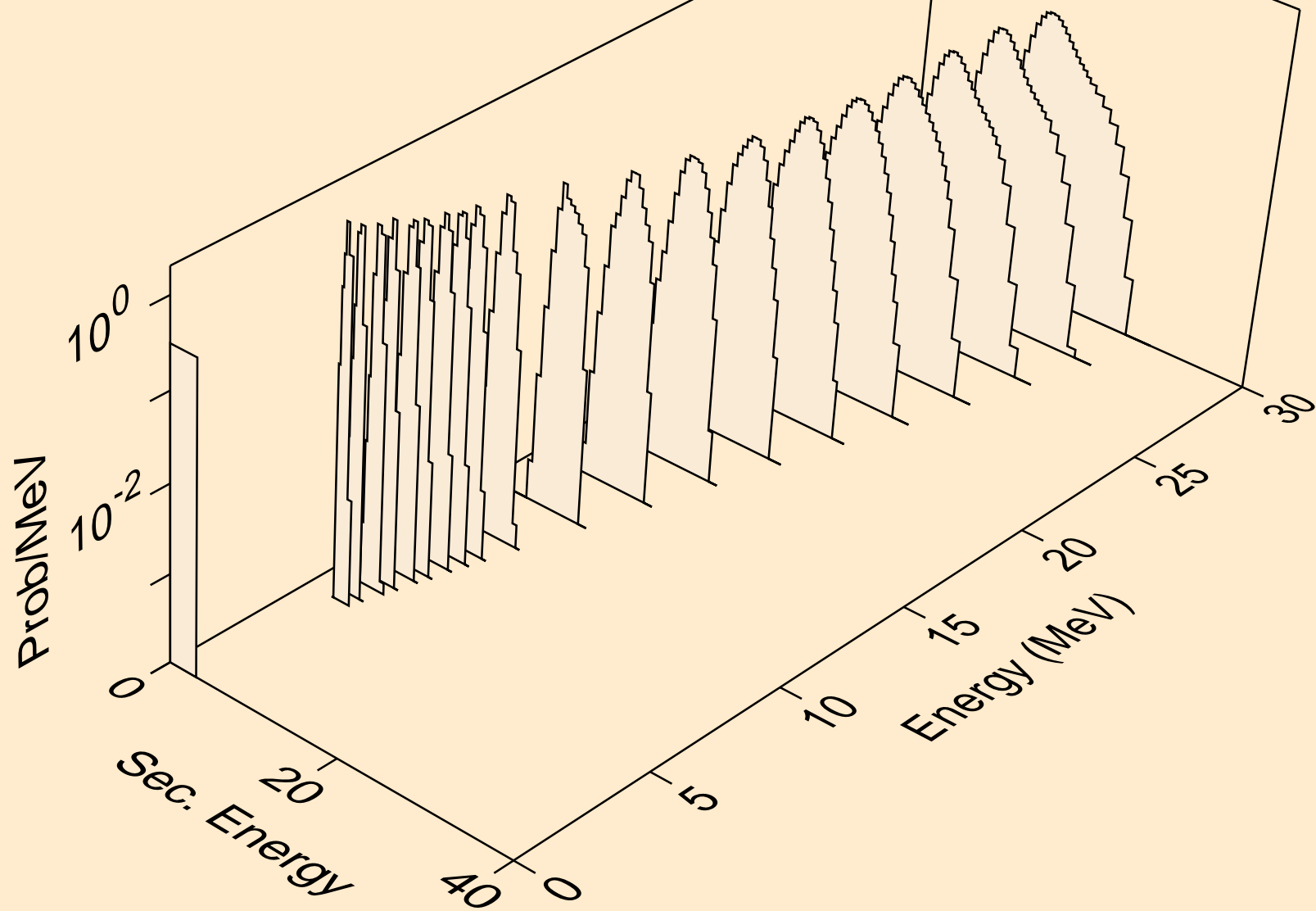
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alphas from (n,a)



SN111 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,2a)



SN111 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,pa)



SN111 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,da)

