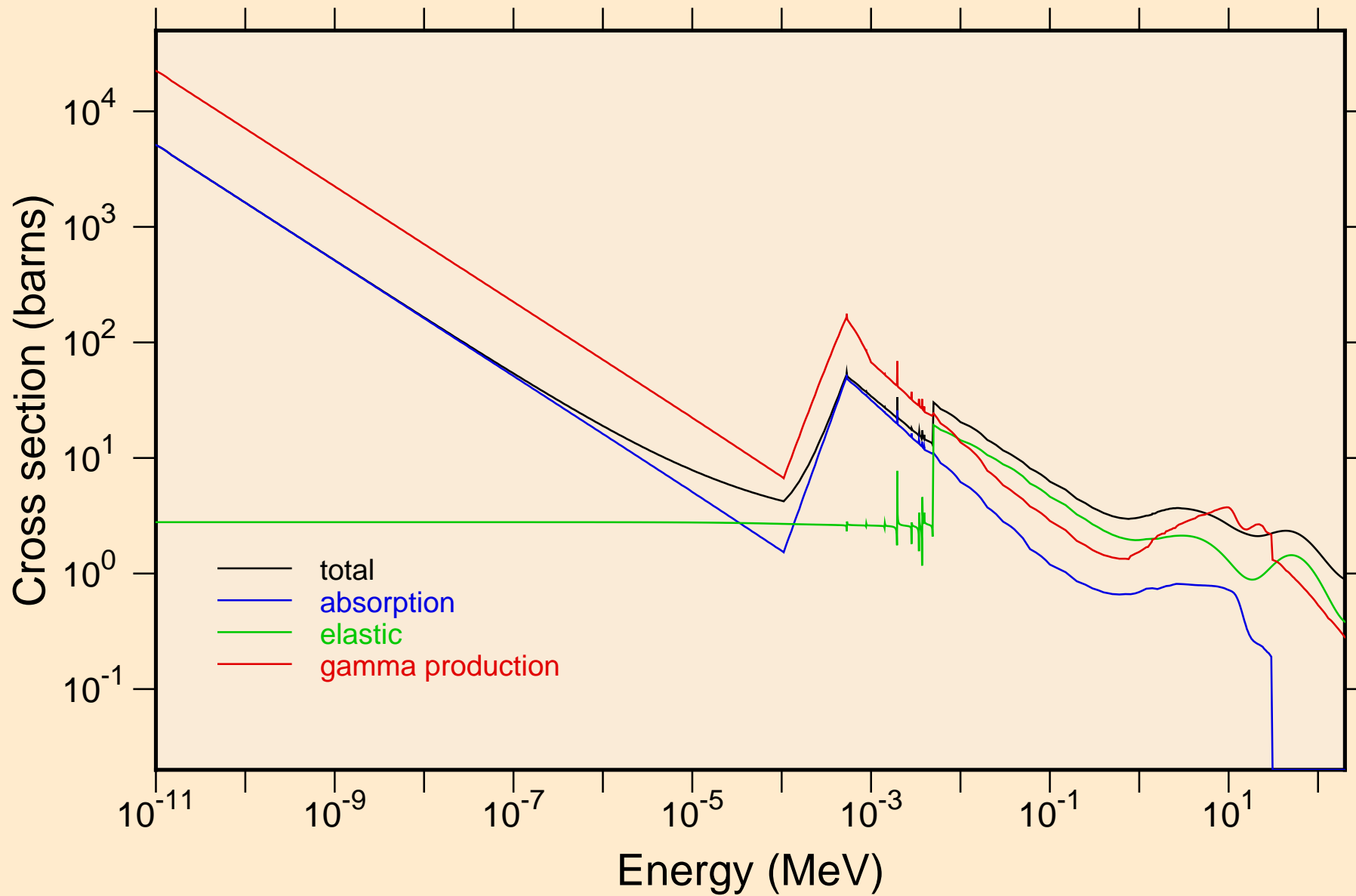
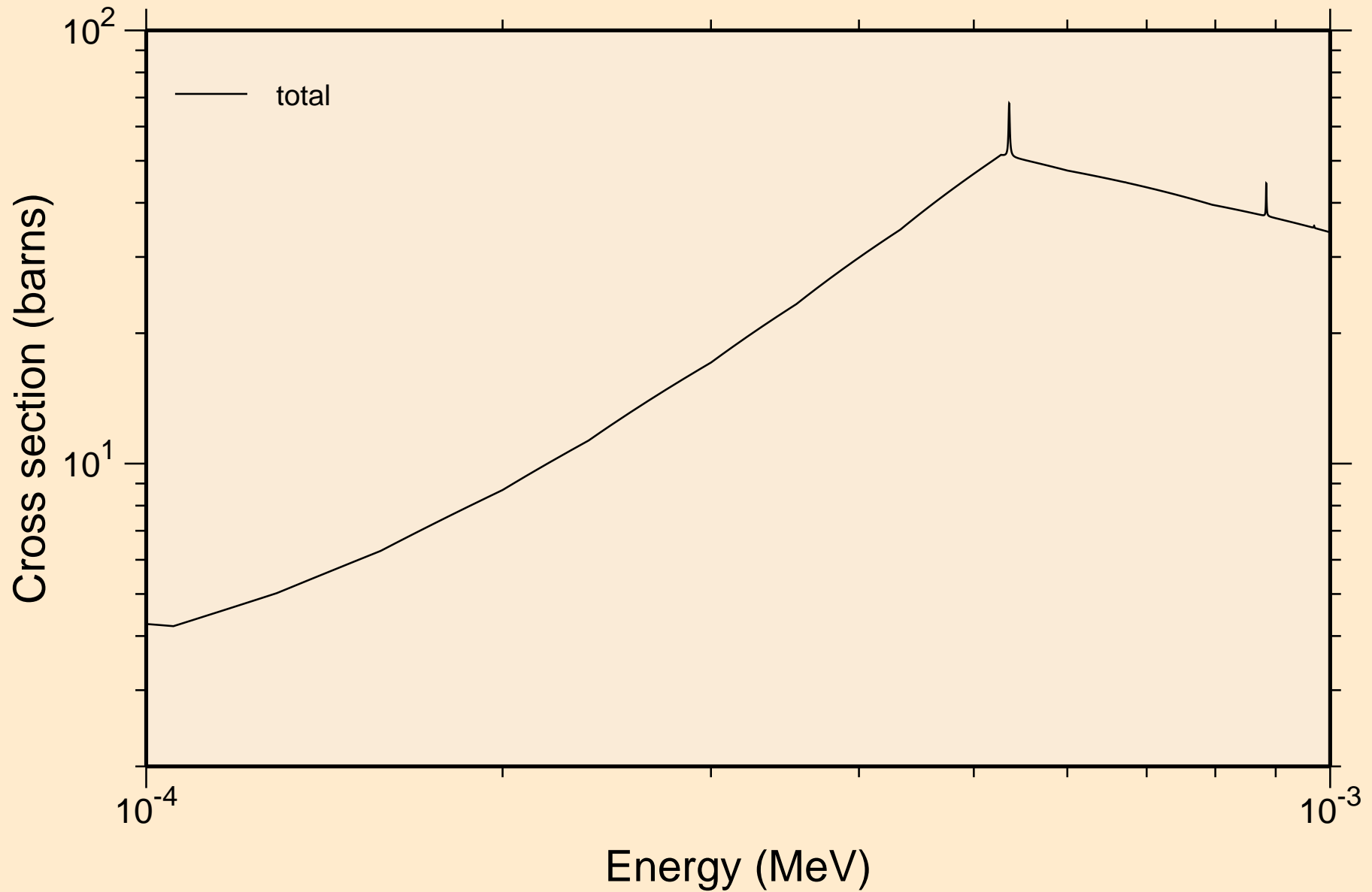


# TI045 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

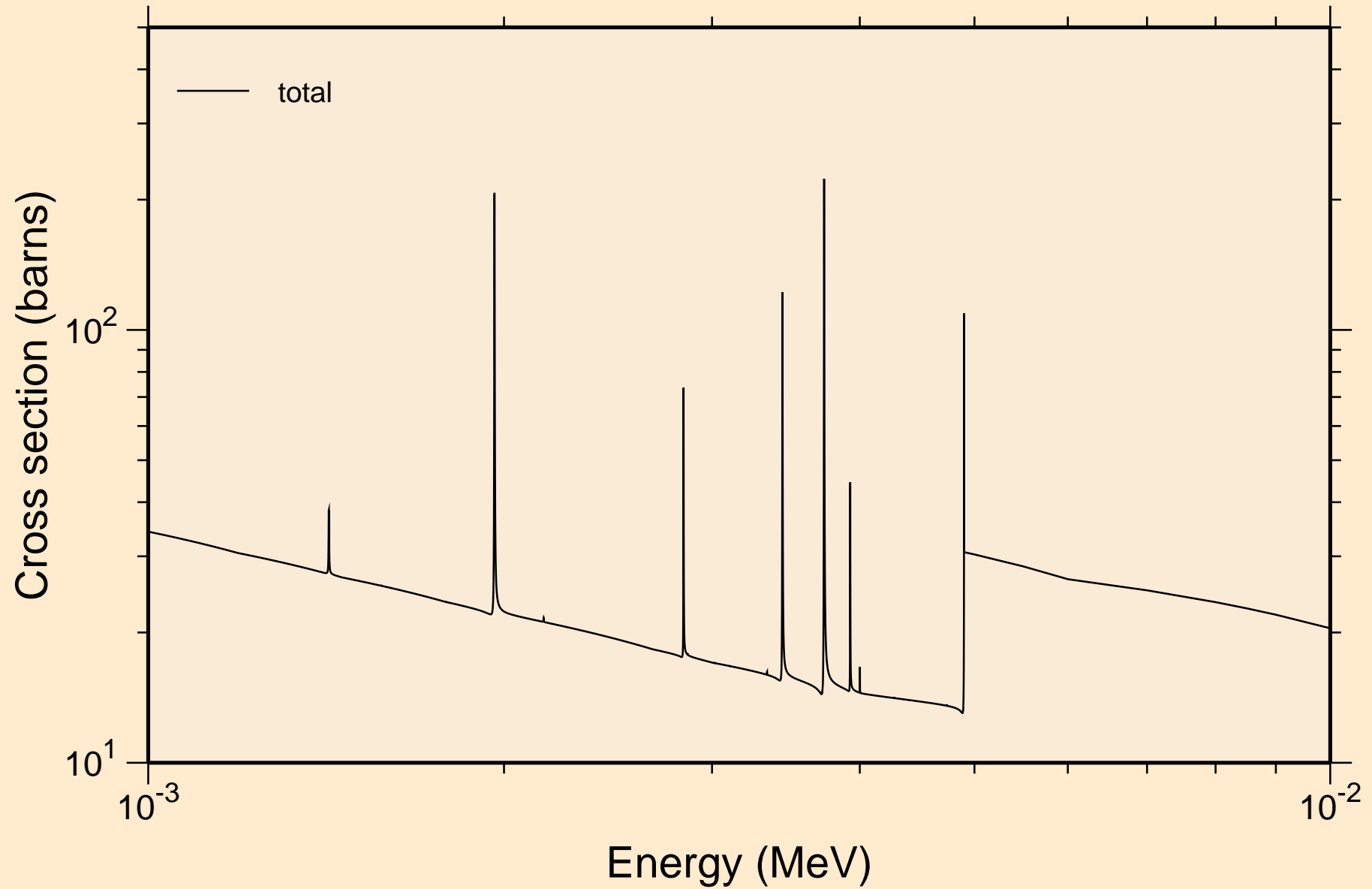
## Principal cross sections



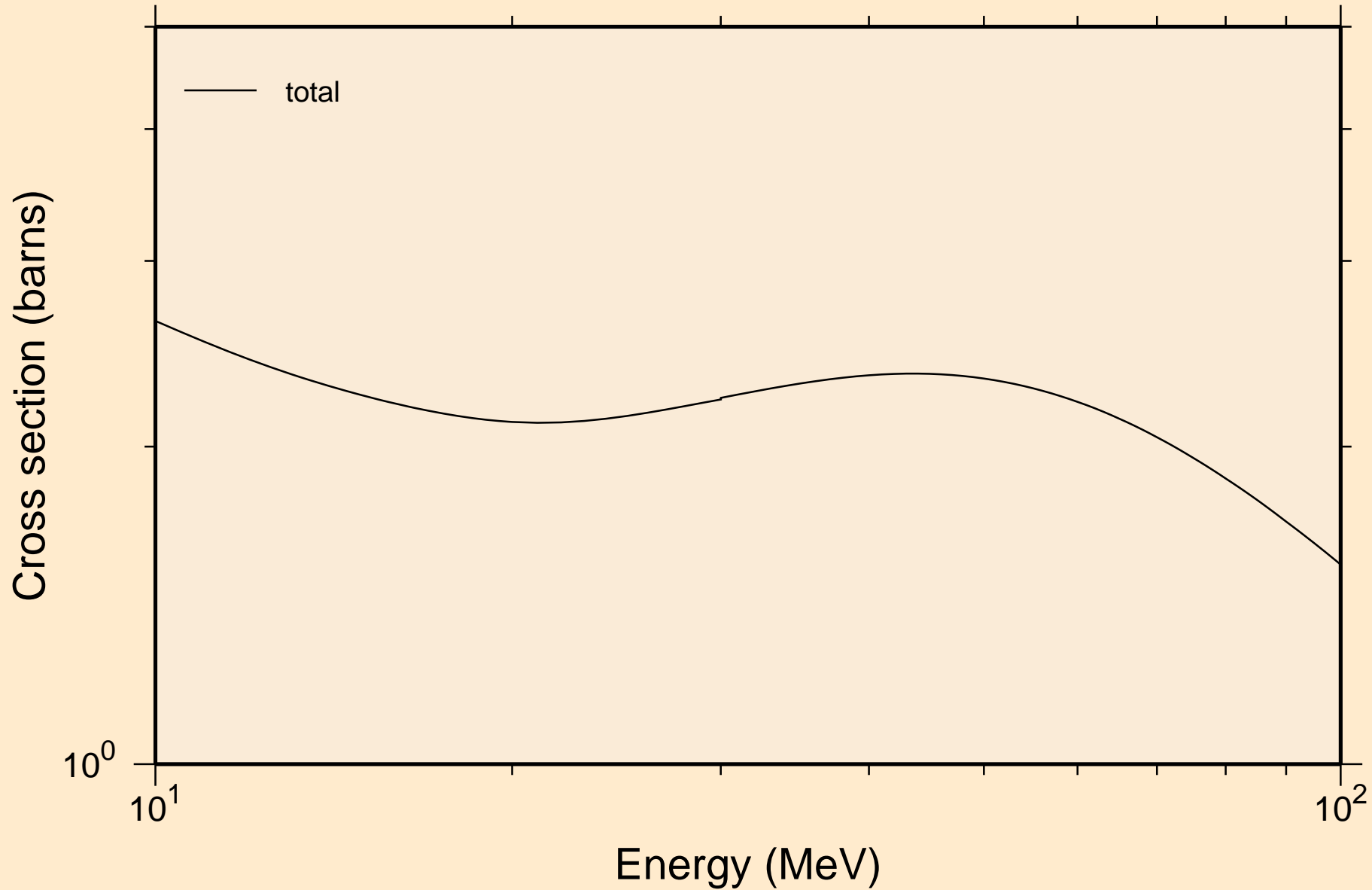
TI045 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
resonance total cross section



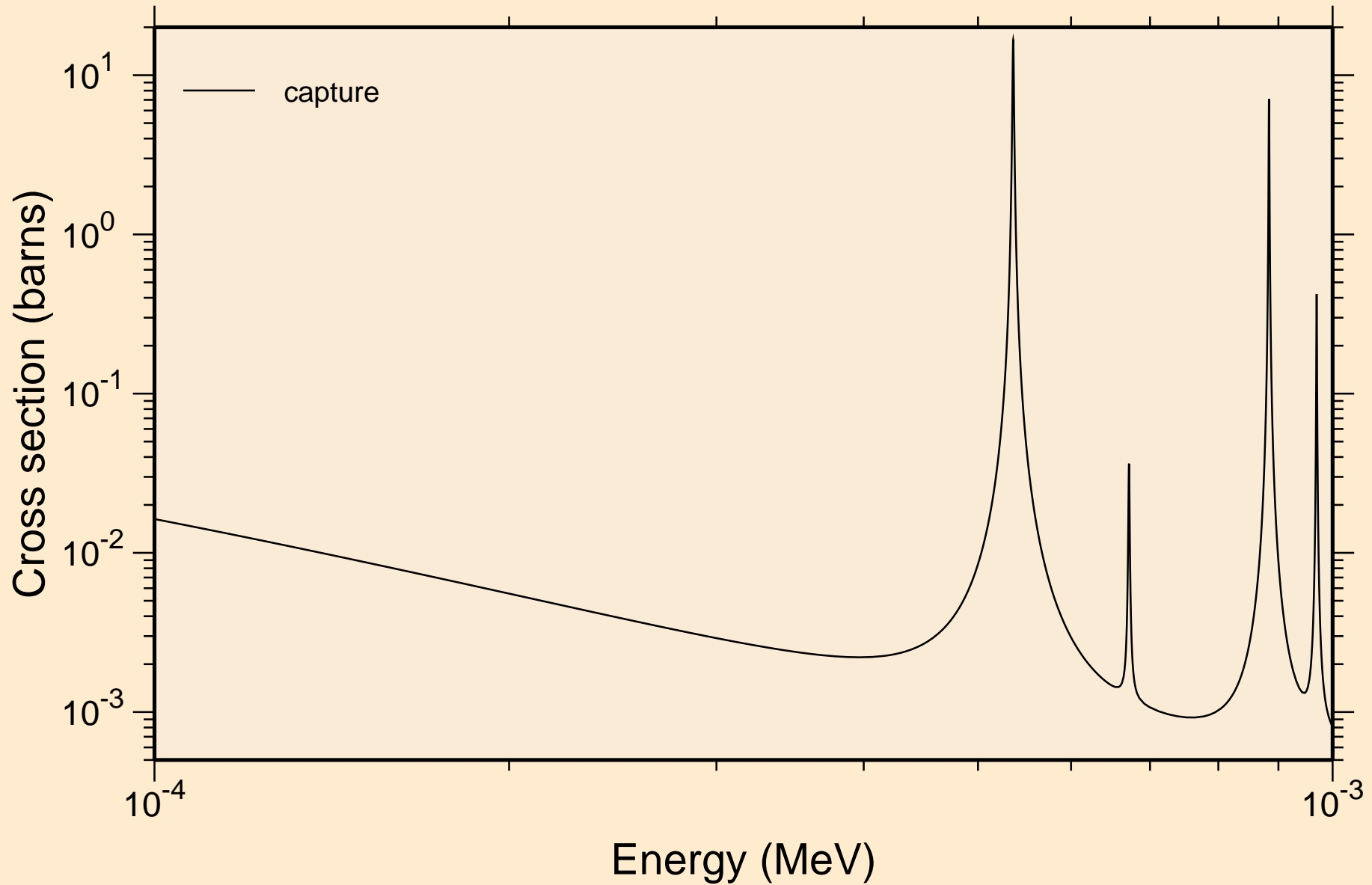
TI045 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
resonance total cross section



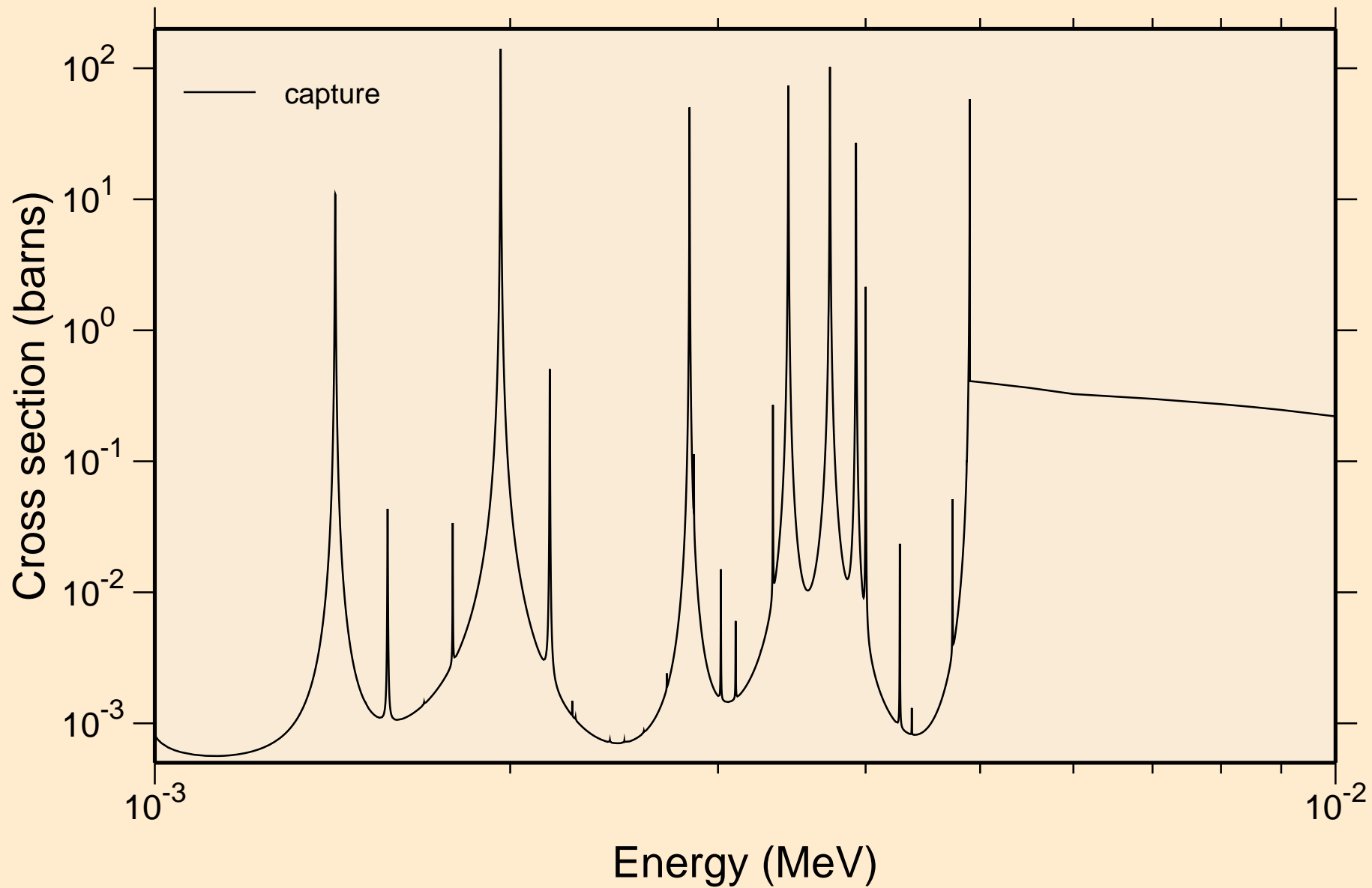
TI045 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
resonance total cross section



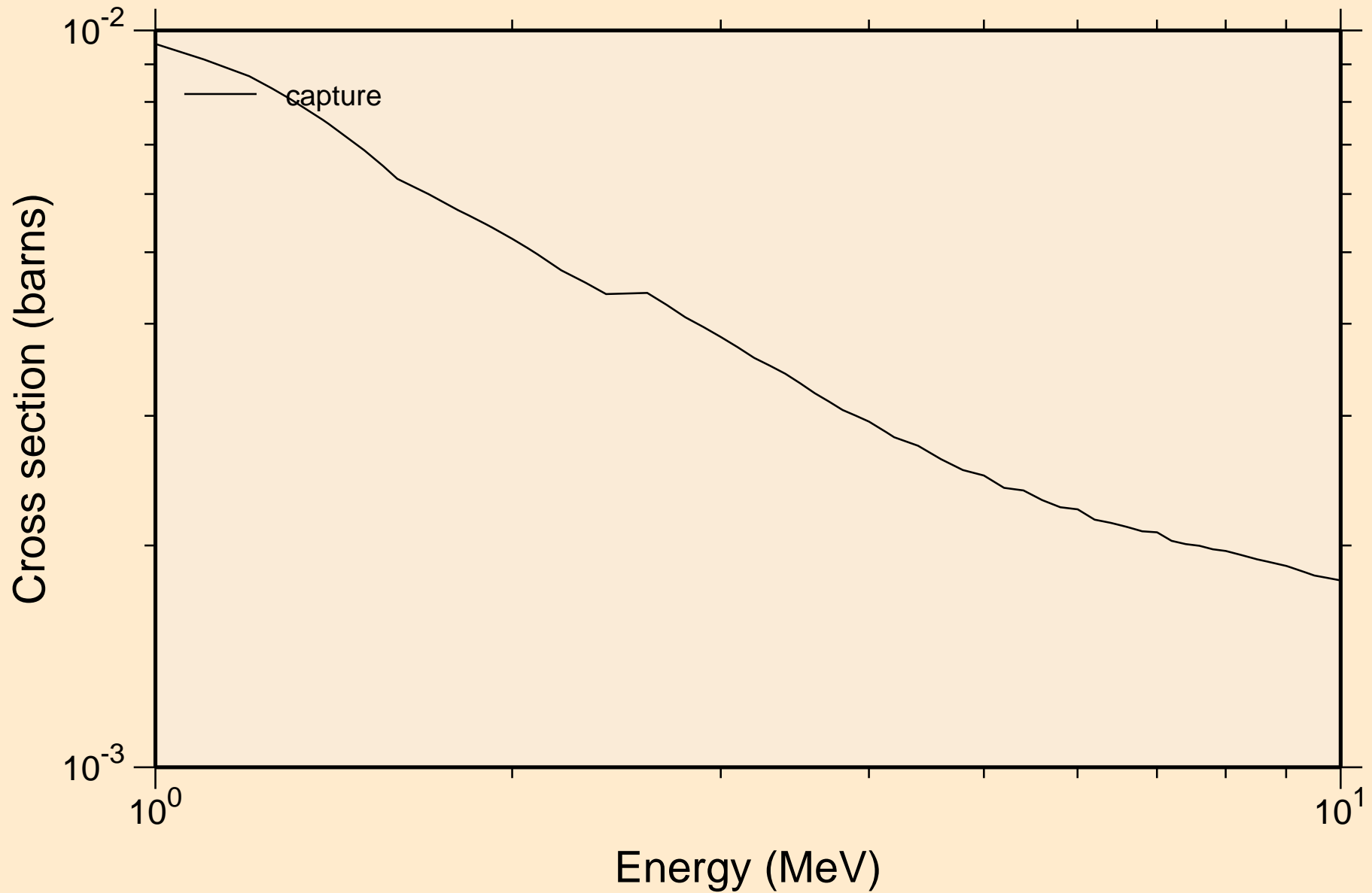
TI045 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
resonance absorption cross sections



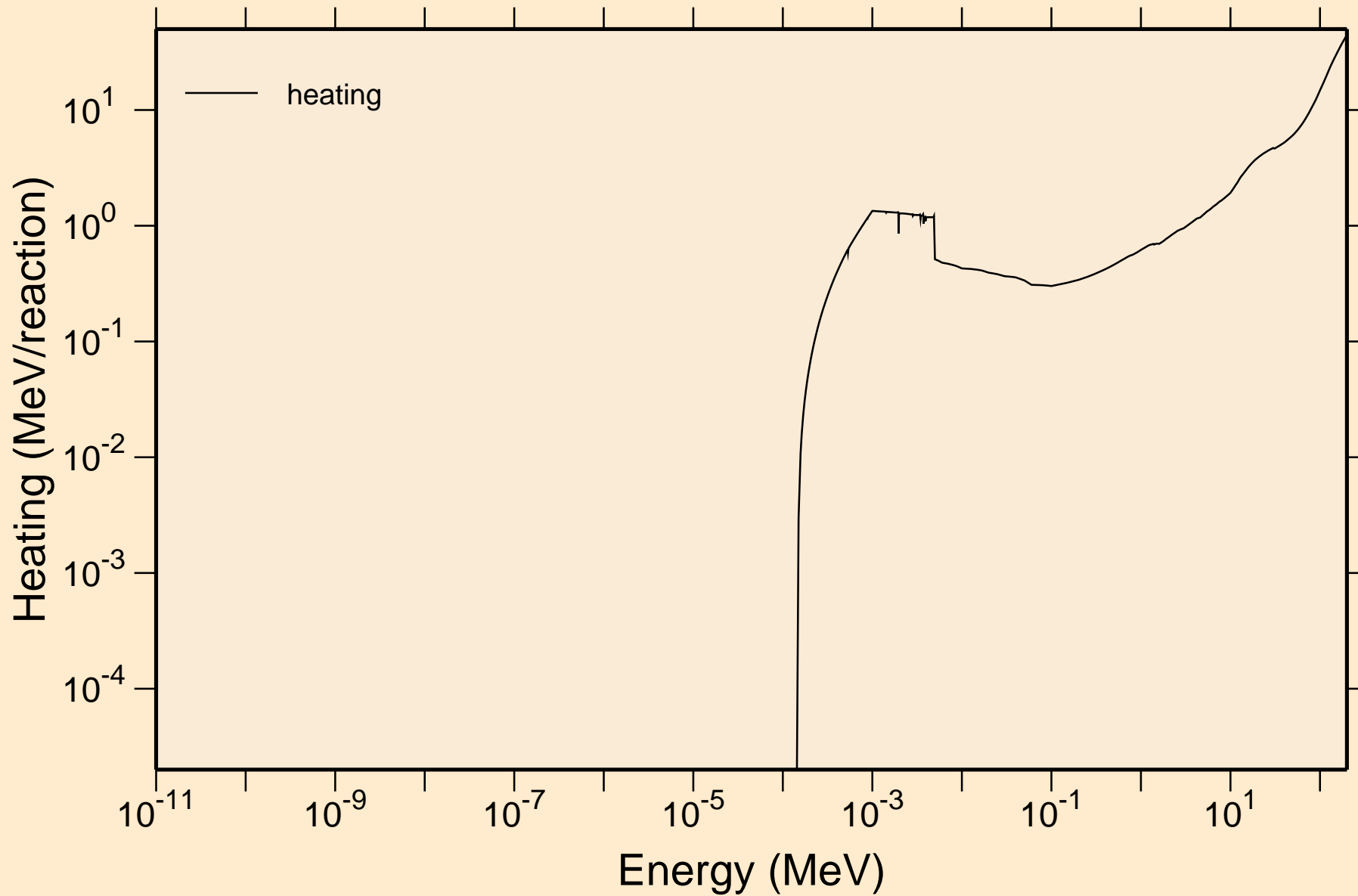
TI045 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
resonance absorption cross sections



TI045 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
resonance absorption cross sections

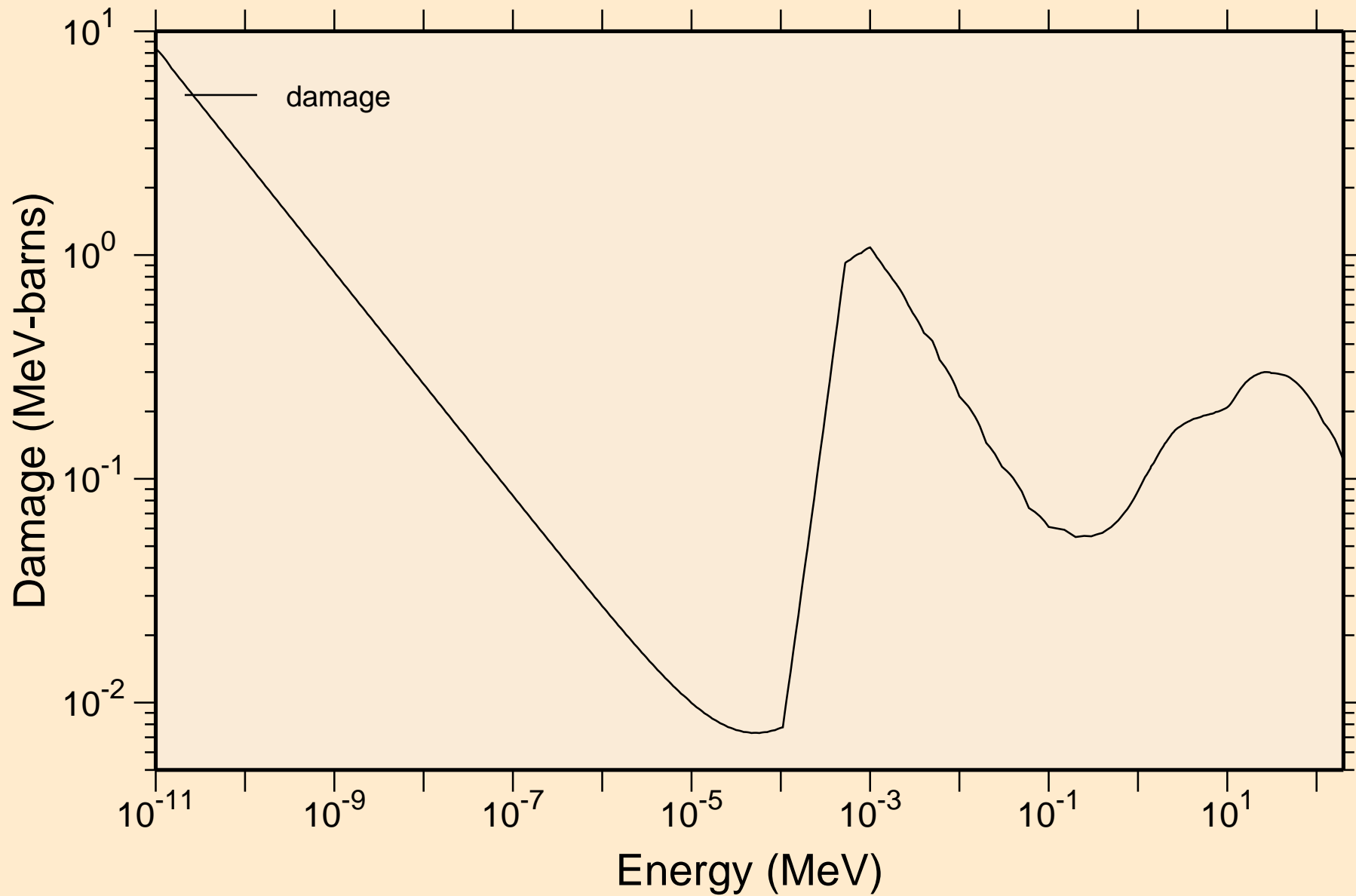


TI045 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Heating



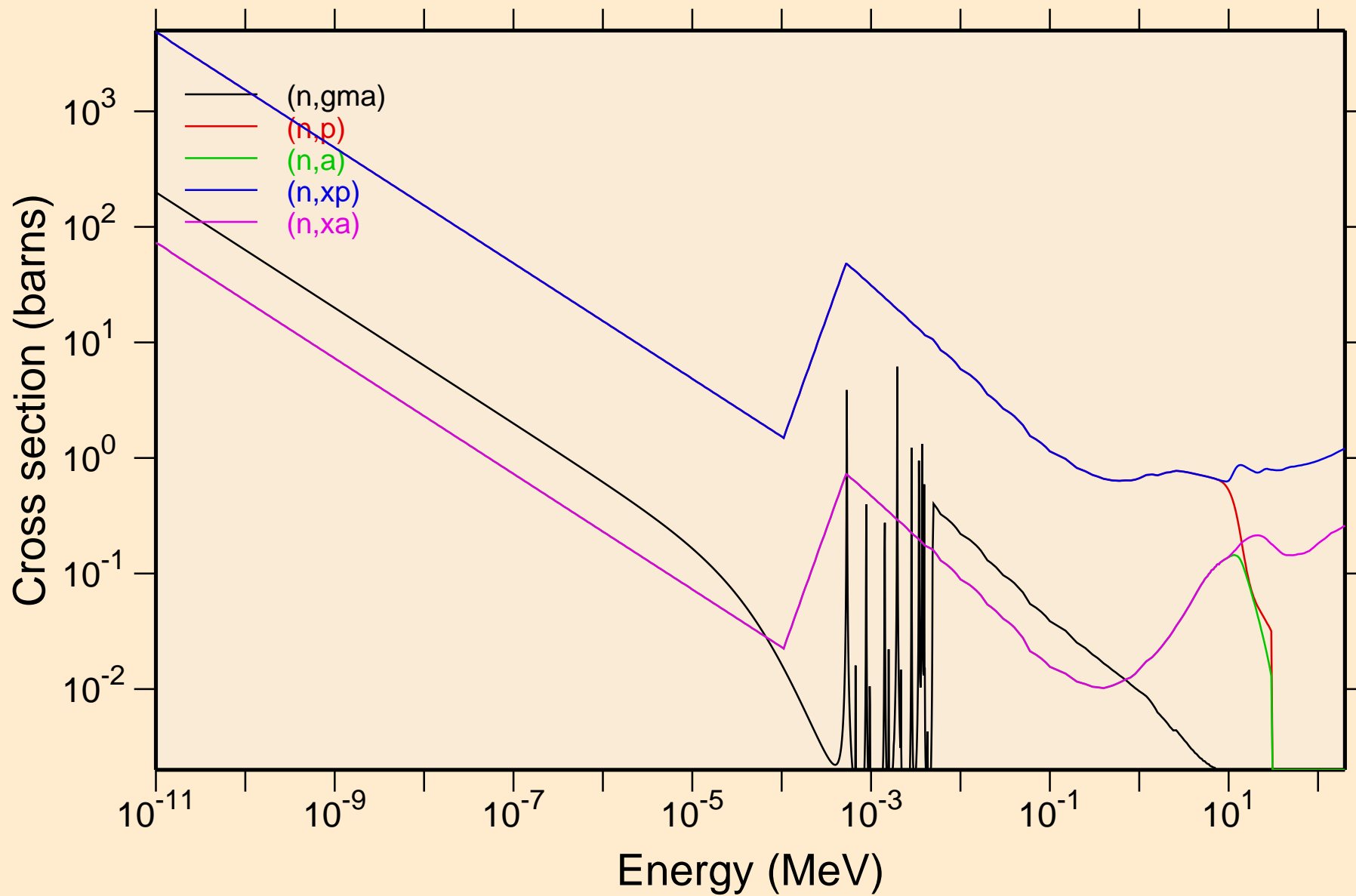


TI045 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Damage



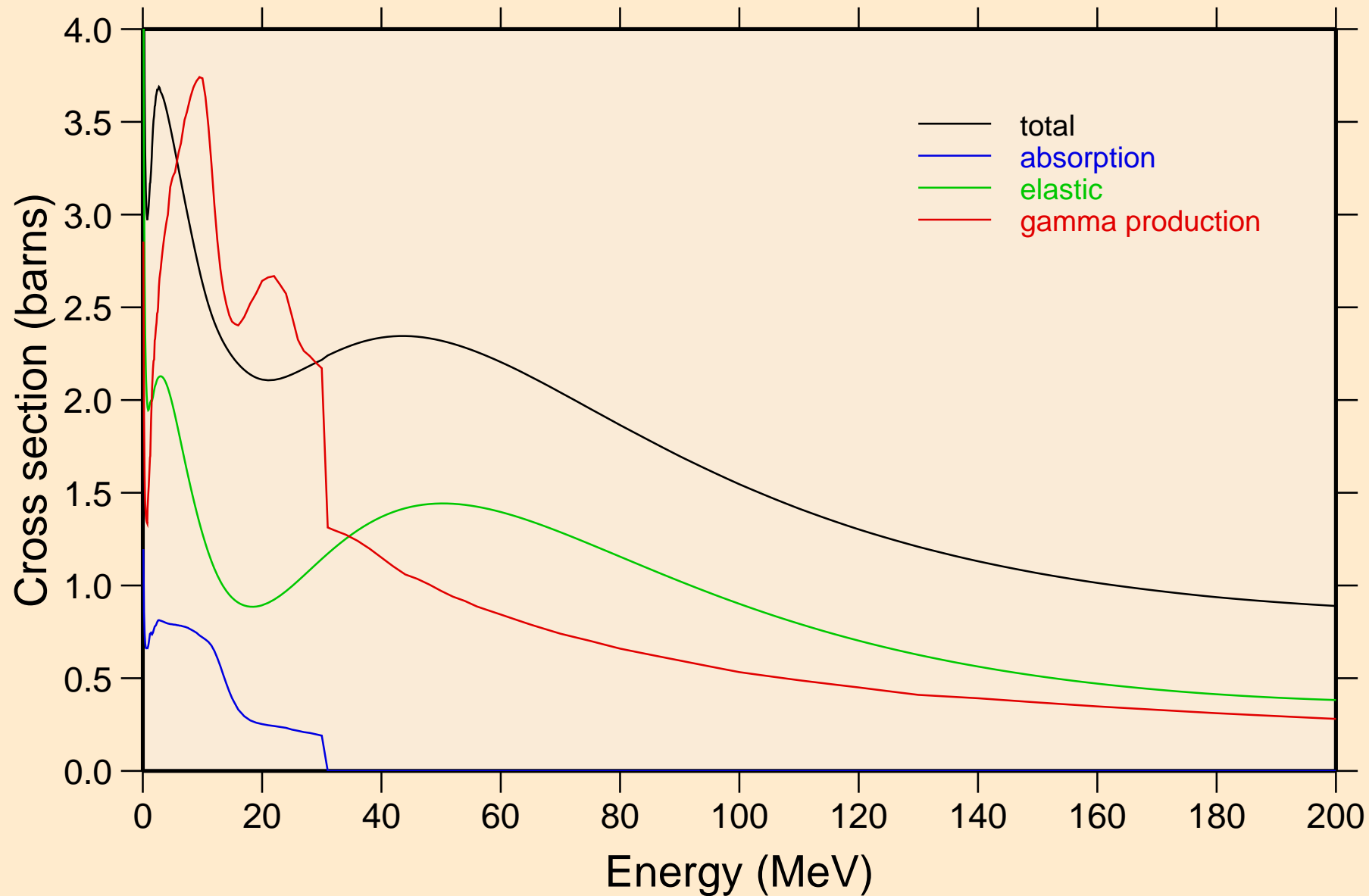
# TI045 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

## Non-threshold reactions

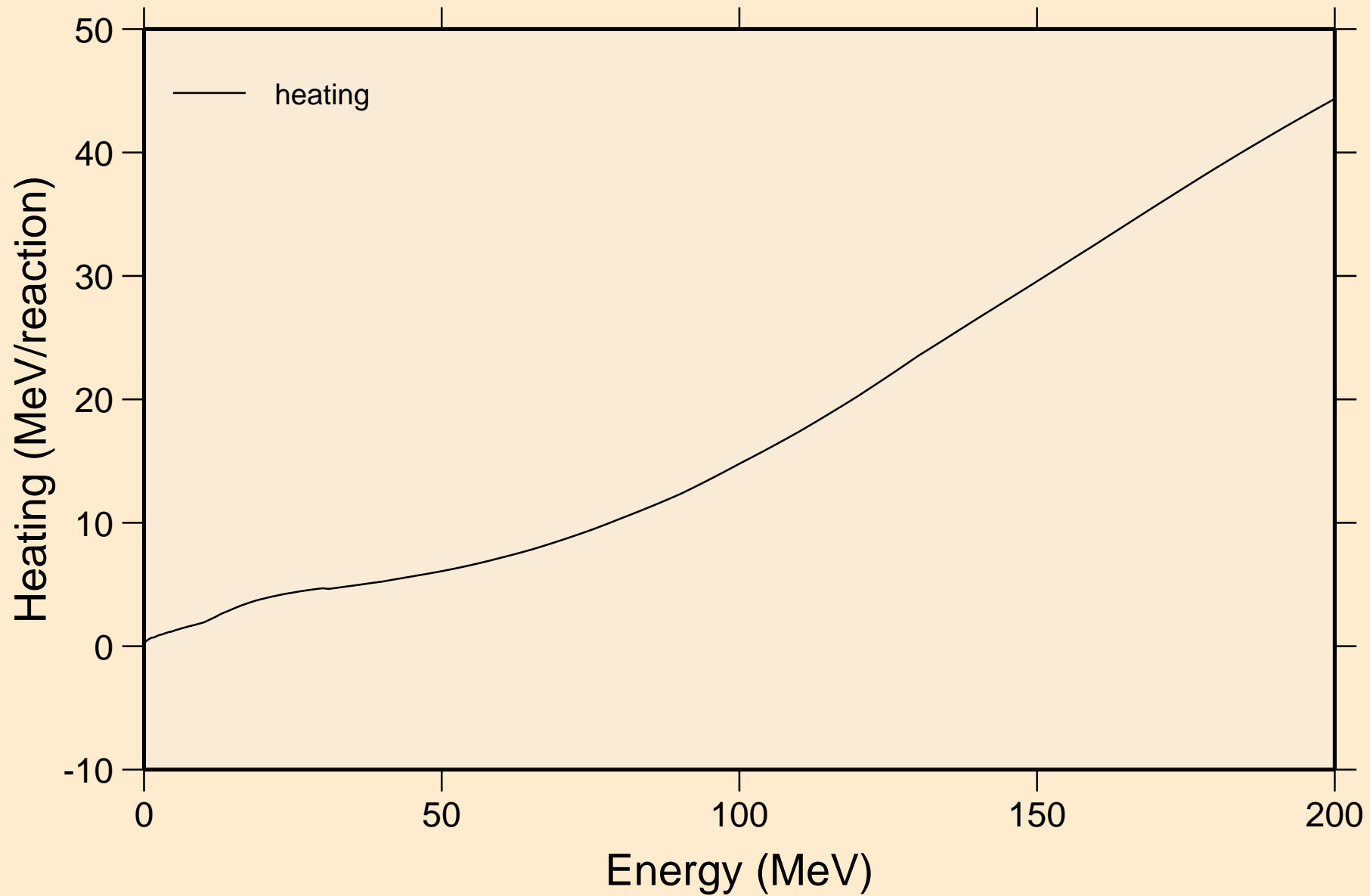


# TI045 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

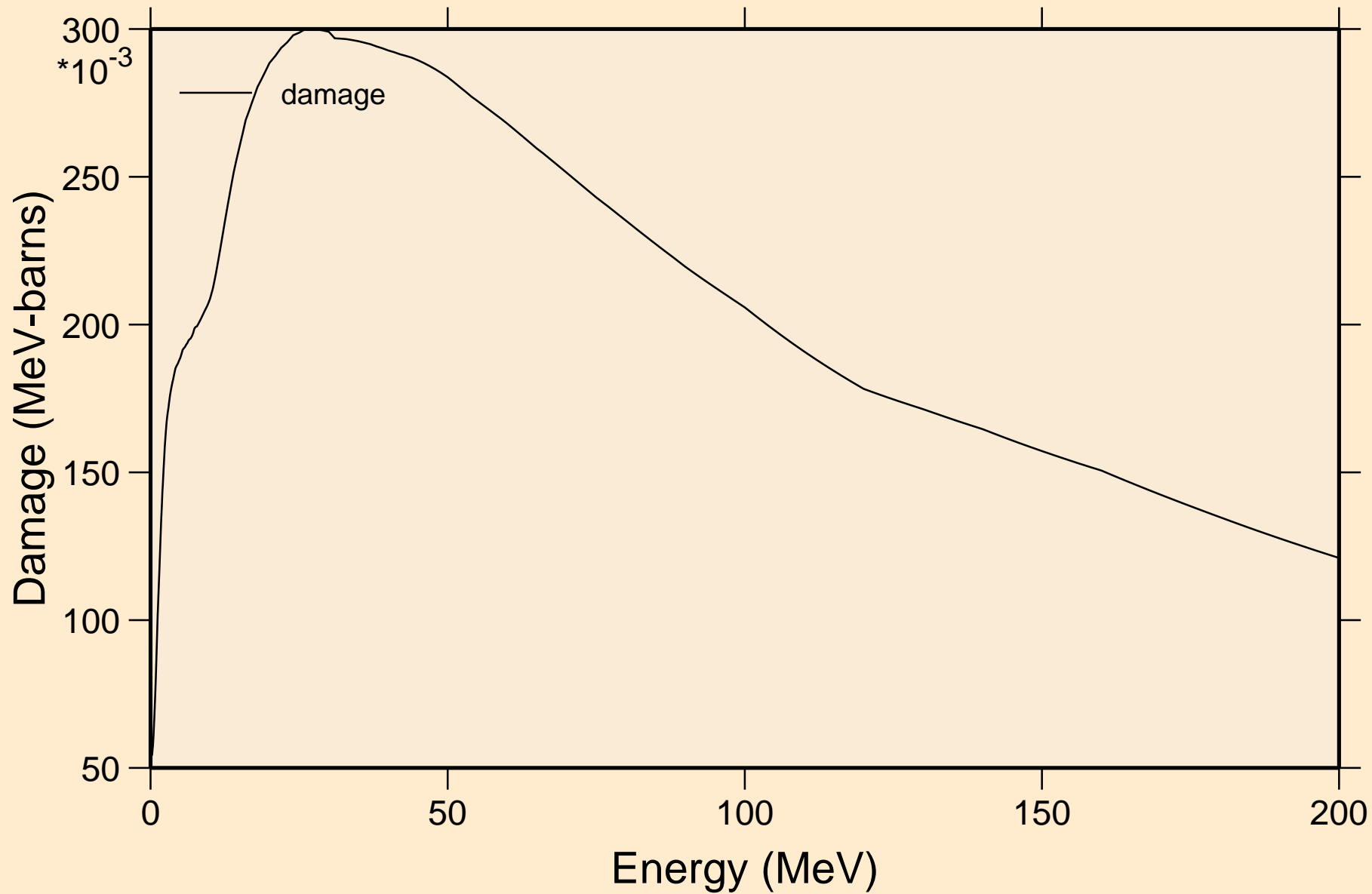
## Principal cross sections



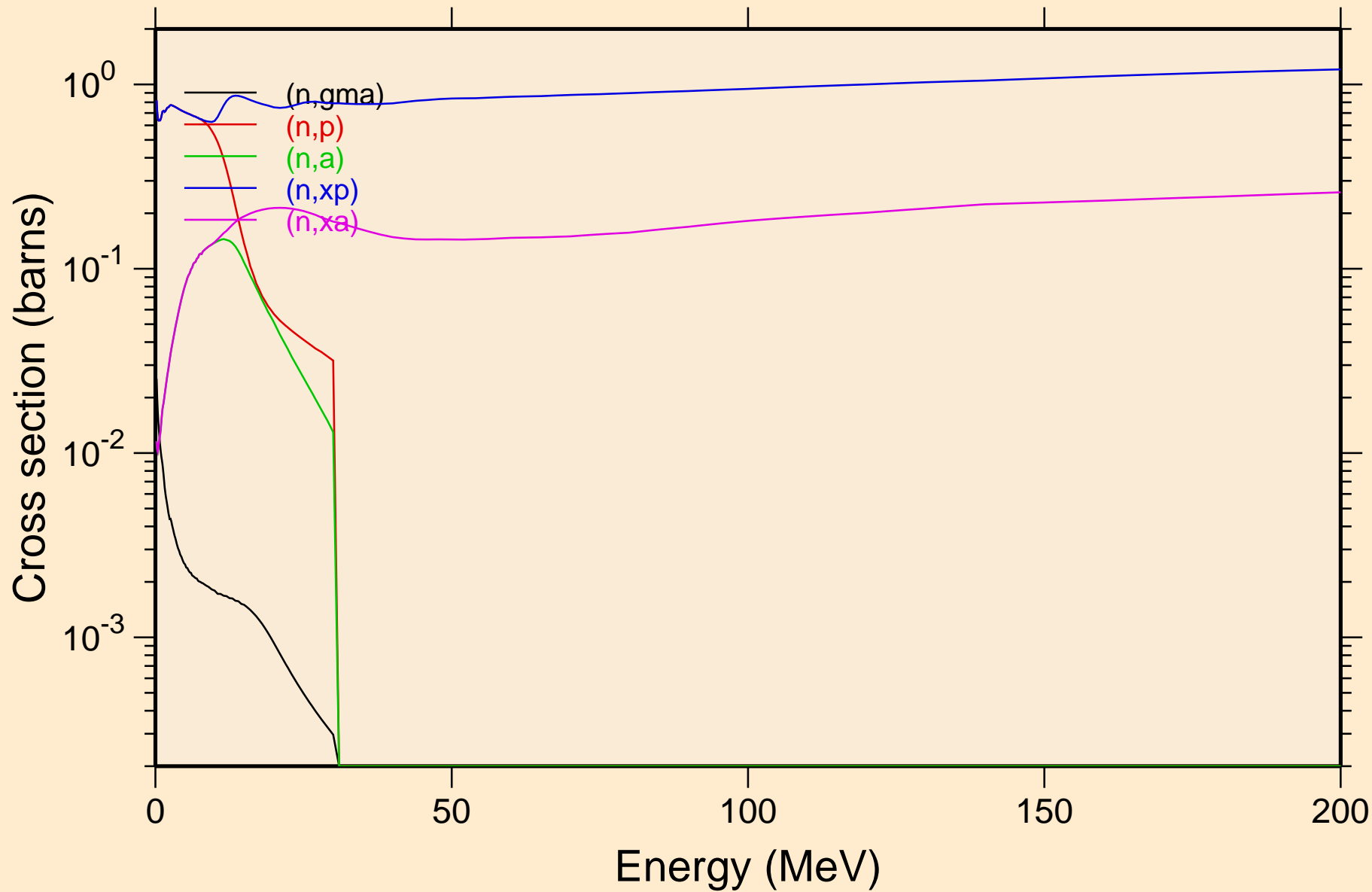
TI045 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Heating



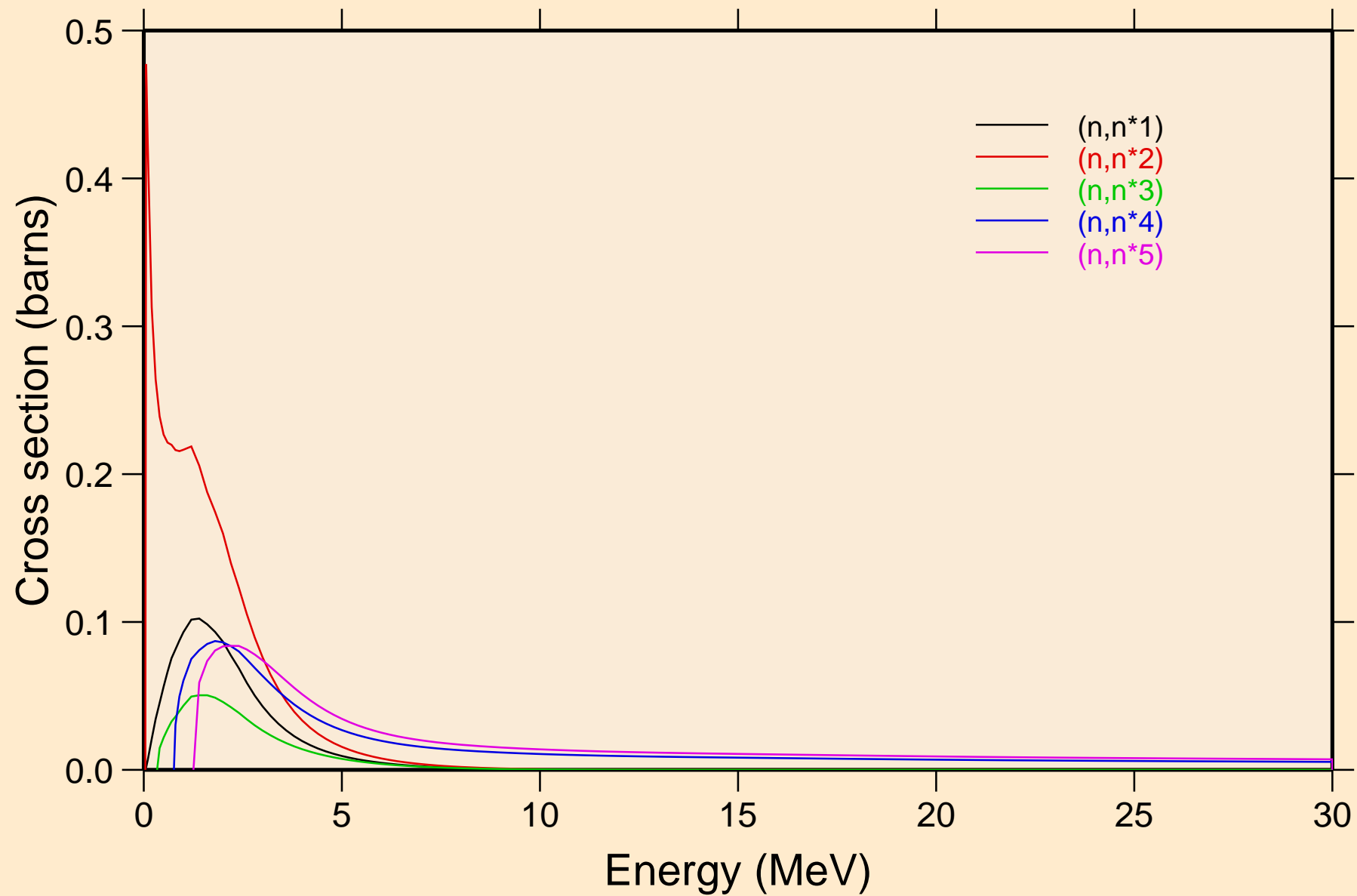
TI045 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Damage



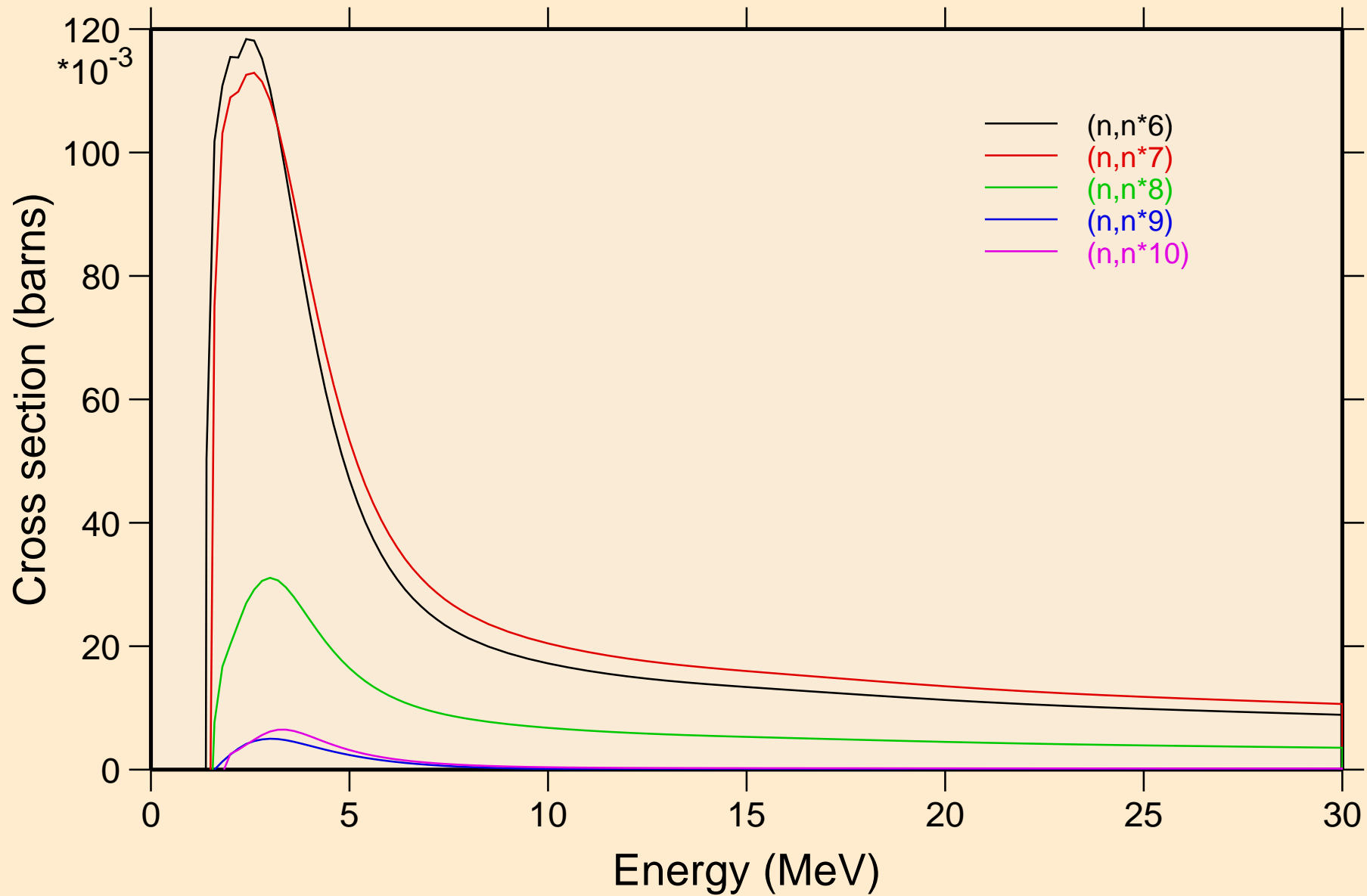
TI045 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Non-threshold reactions



TI045 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Inelastic levels

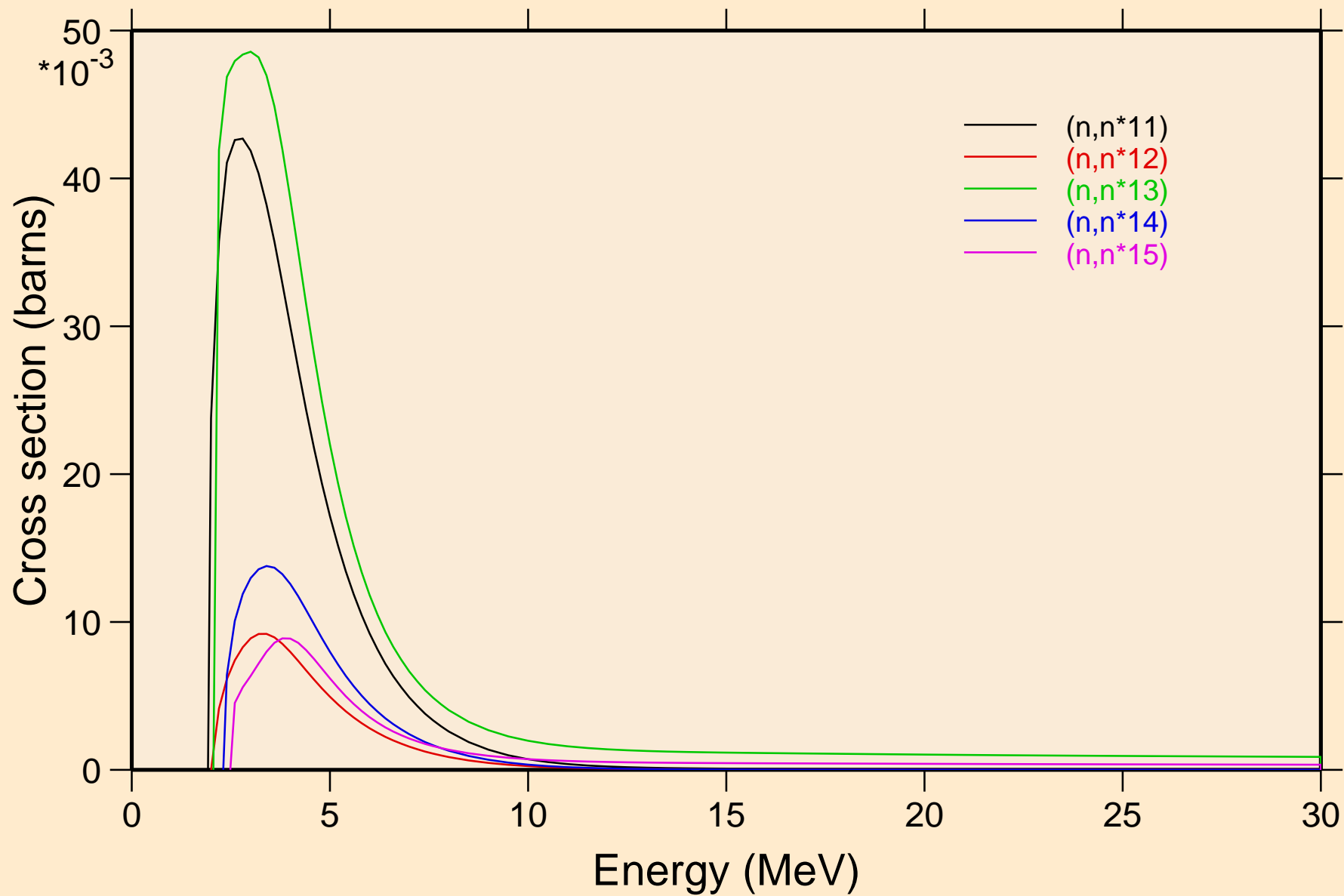


TI045 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Inelastic levels

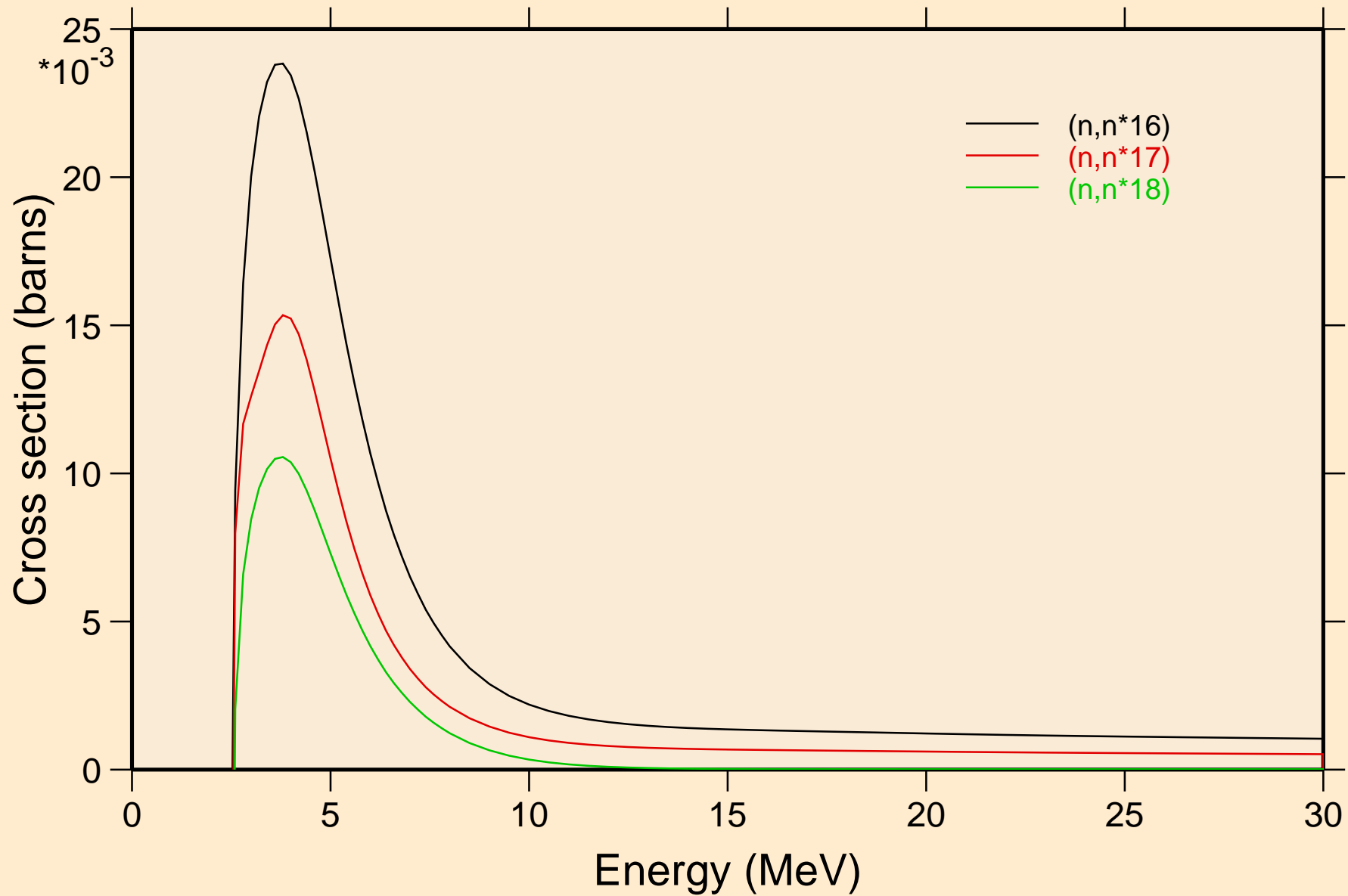




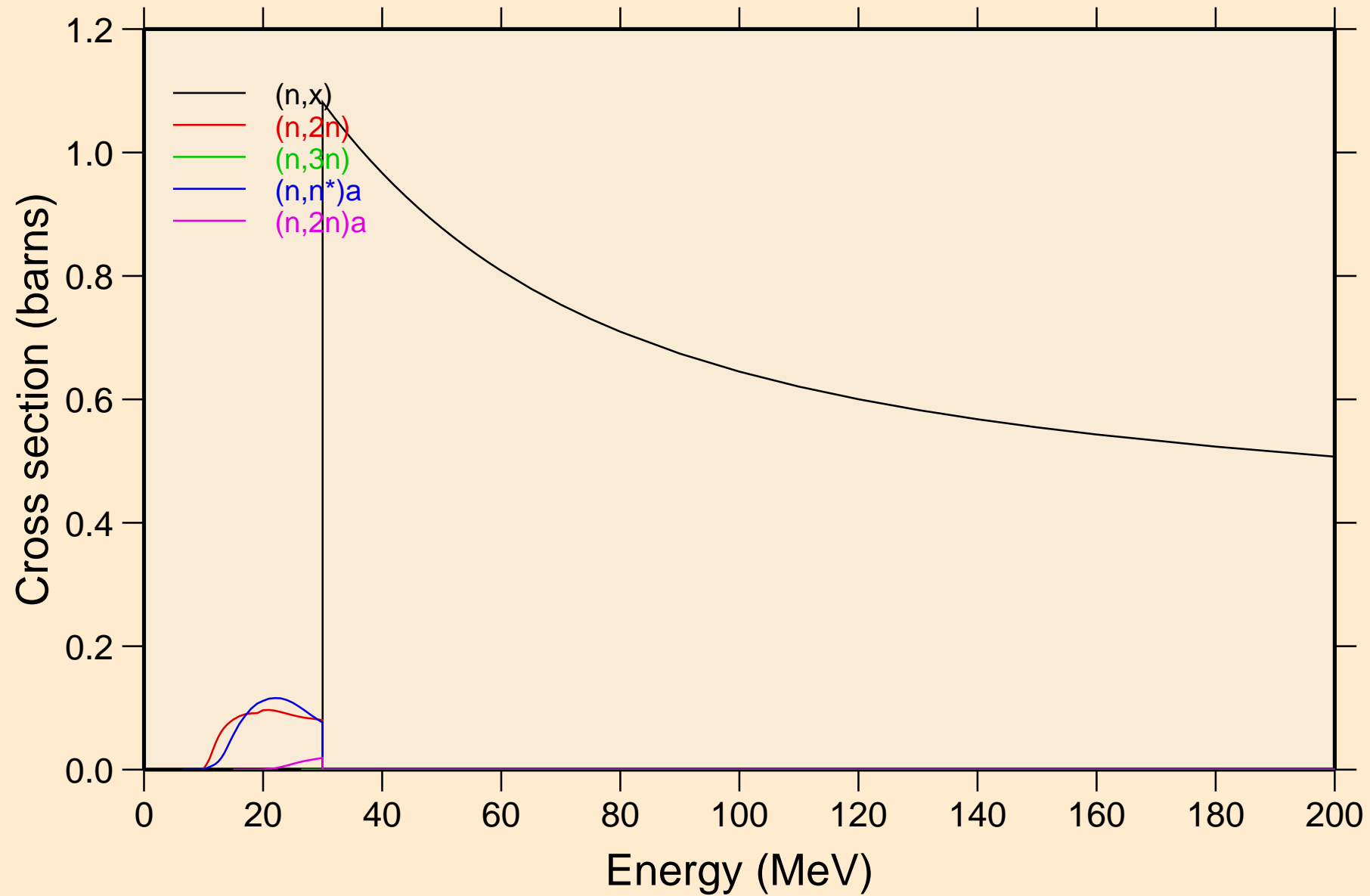
TI045 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Inelastic levels



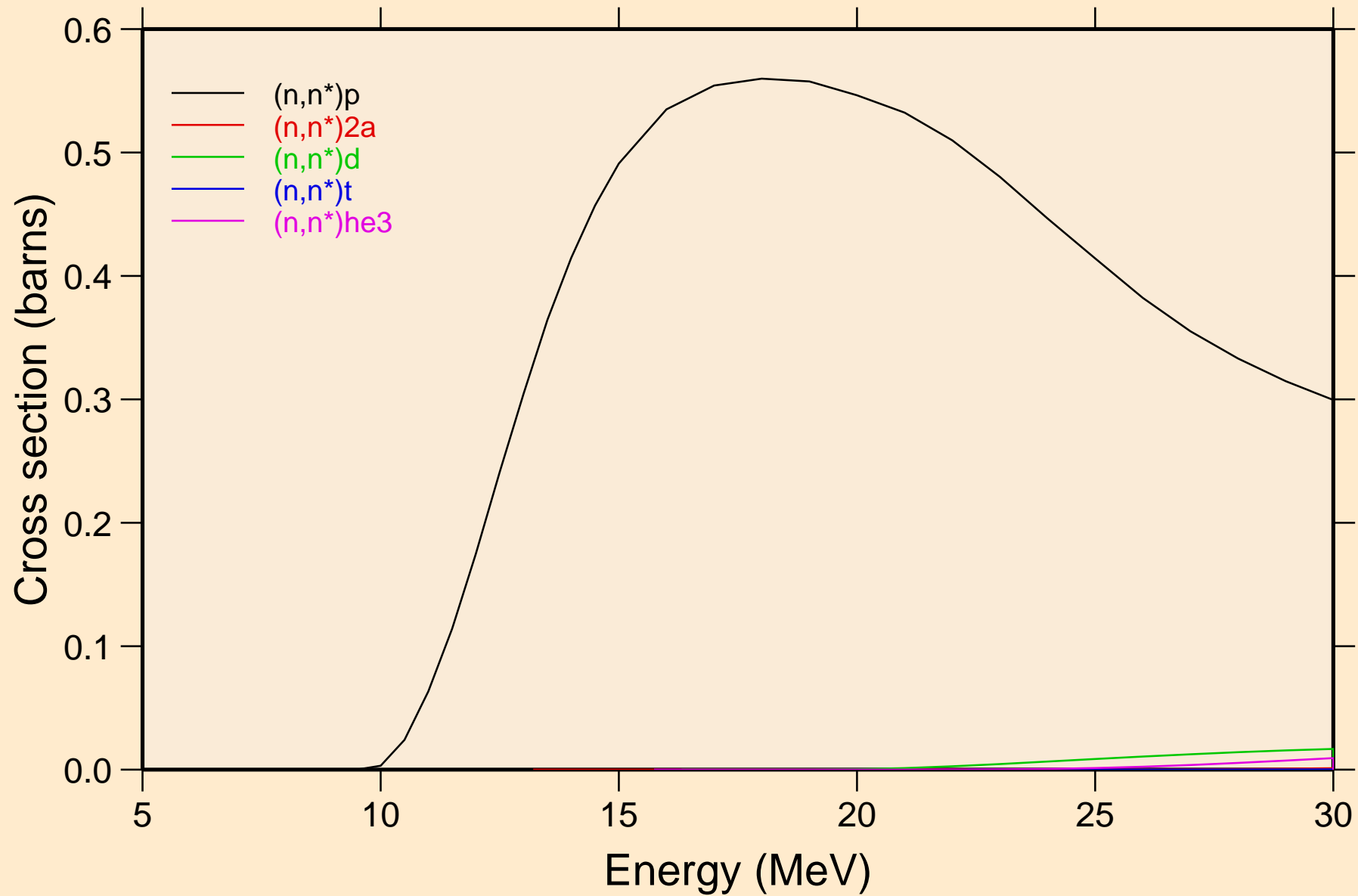
TI045 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Inelastic levels



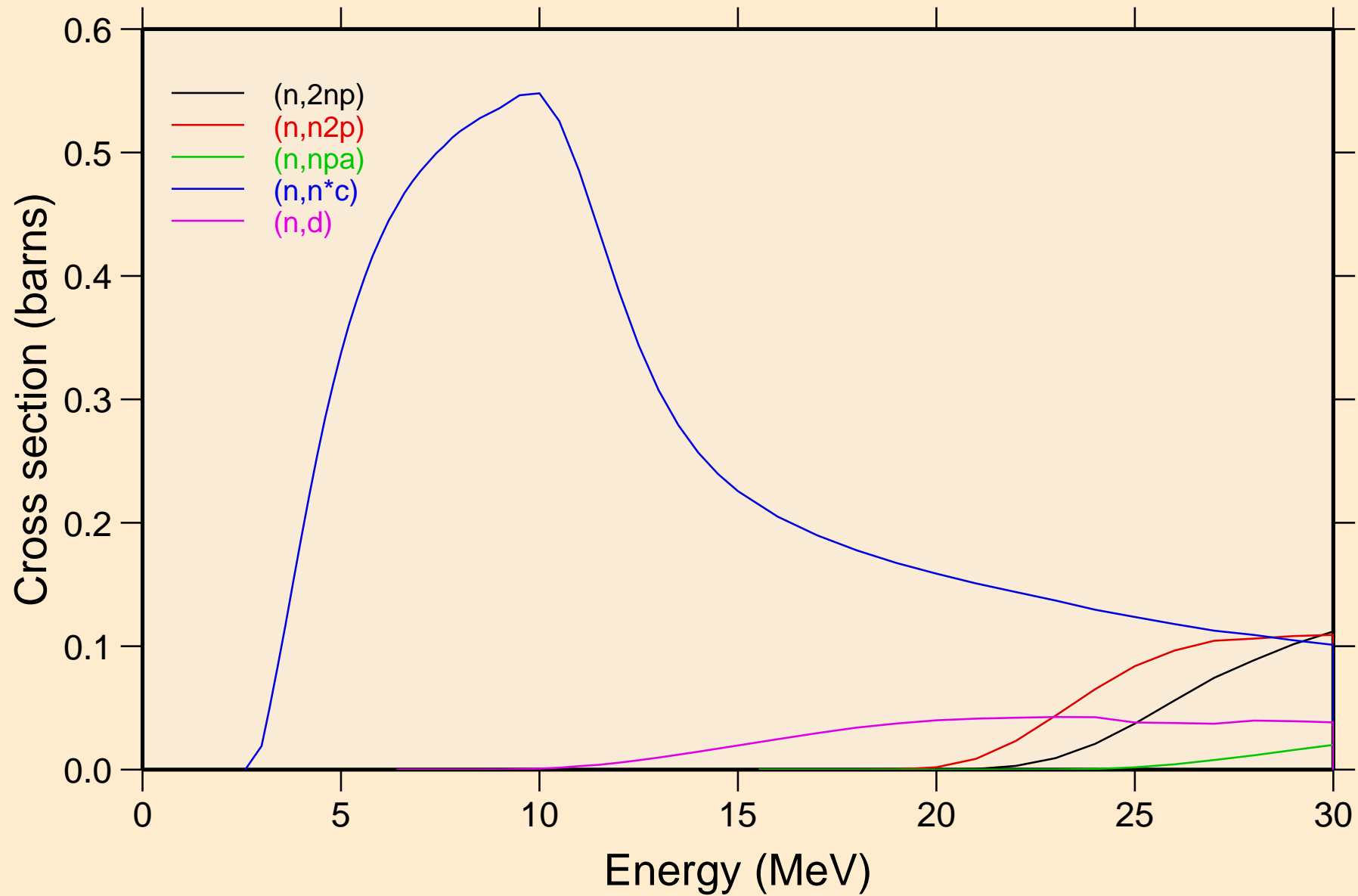
TI045 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Threshold reactions



TI045 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Threshold reactions

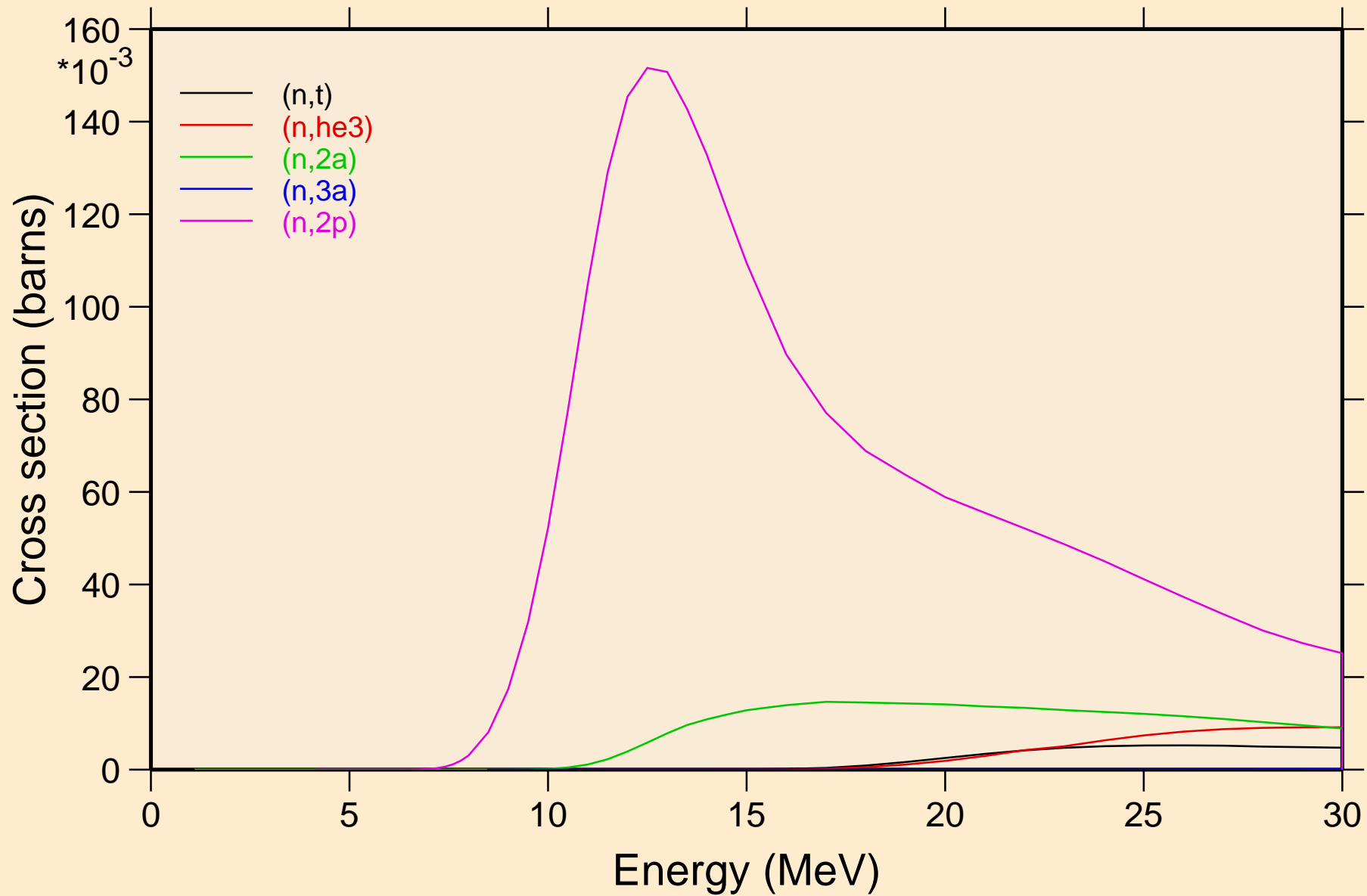


TI045 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Threshold reactions

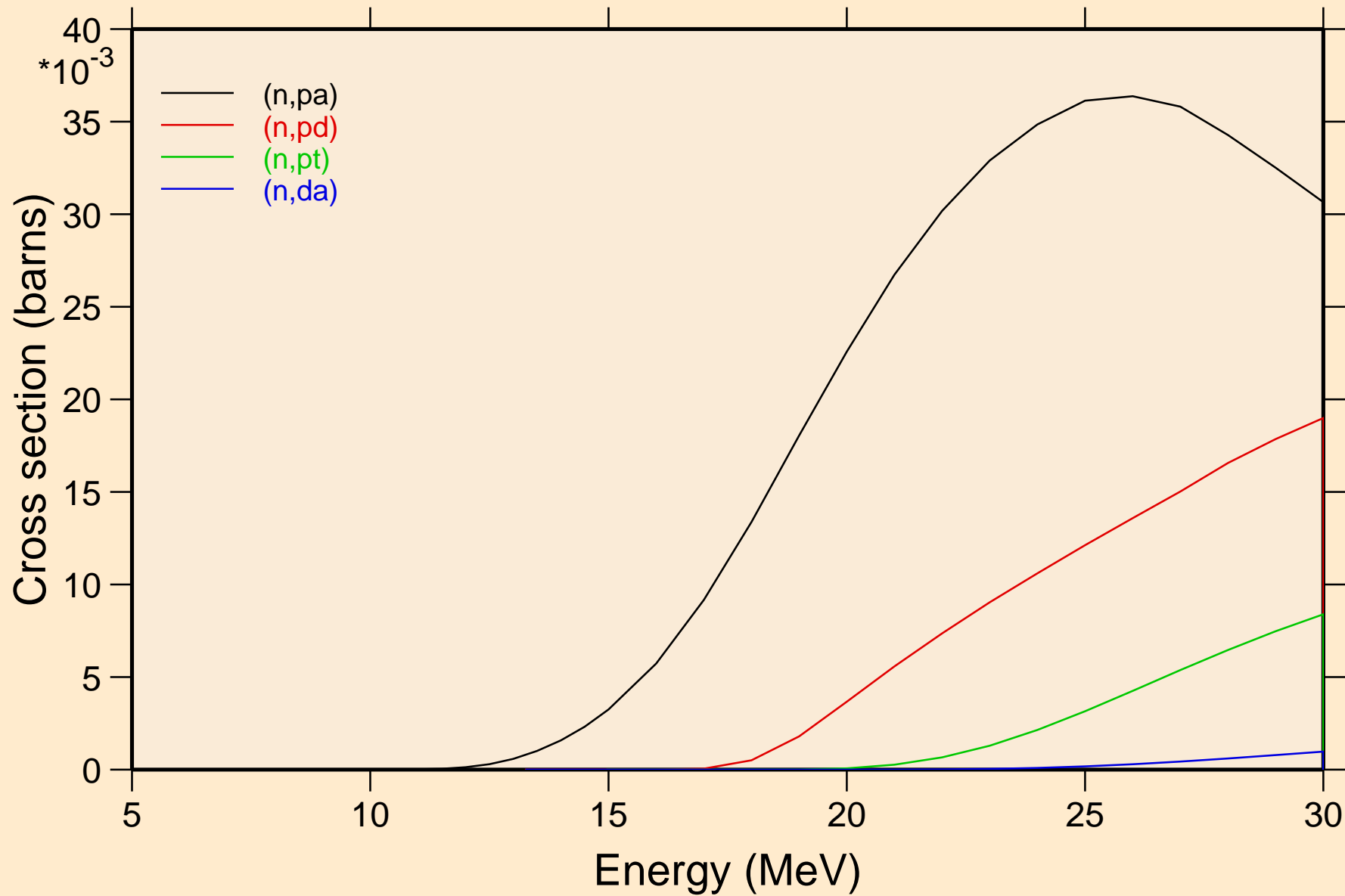


# TI045 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

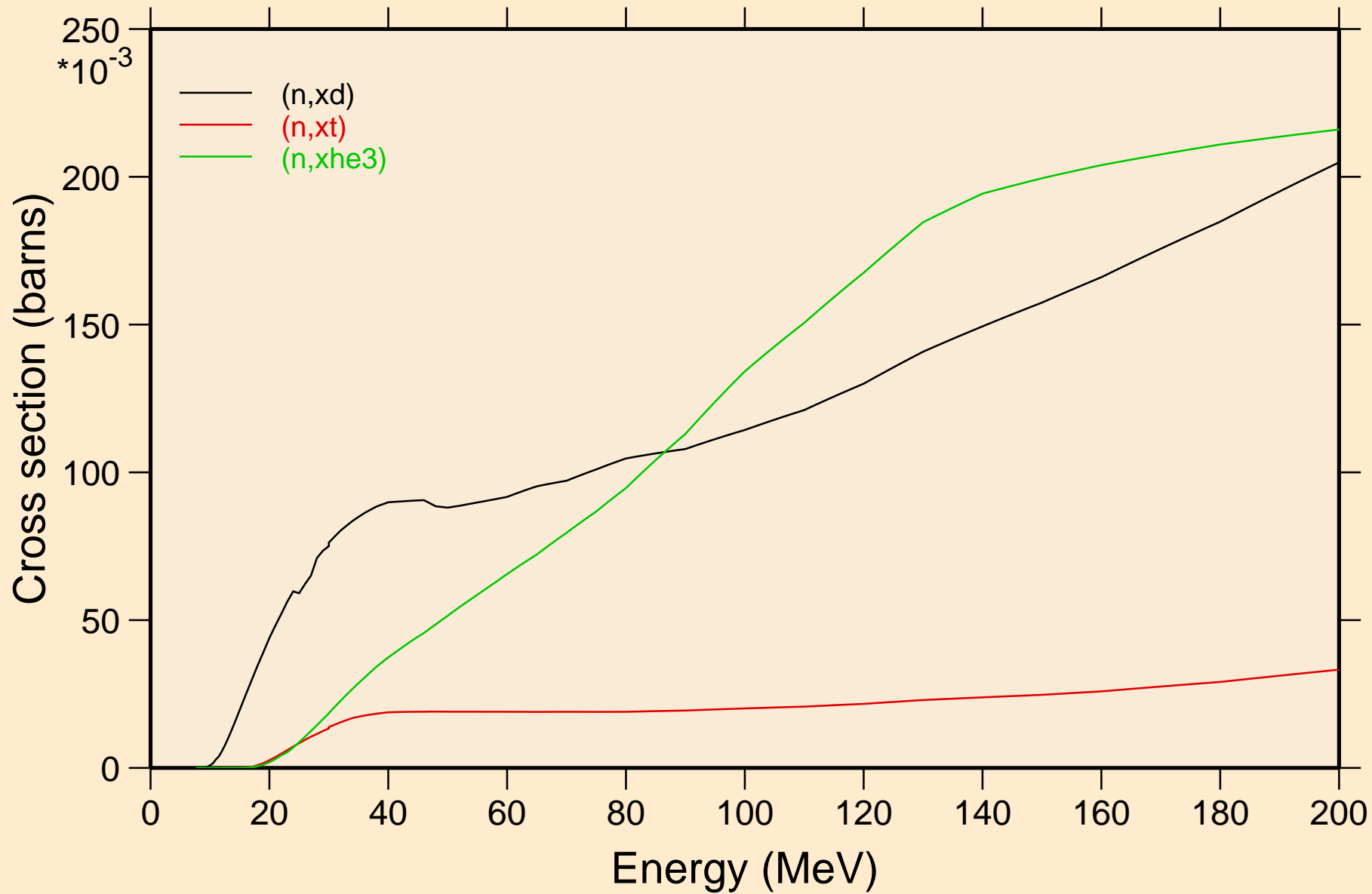
## Threshold reactions



TI045 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Threshold reactions

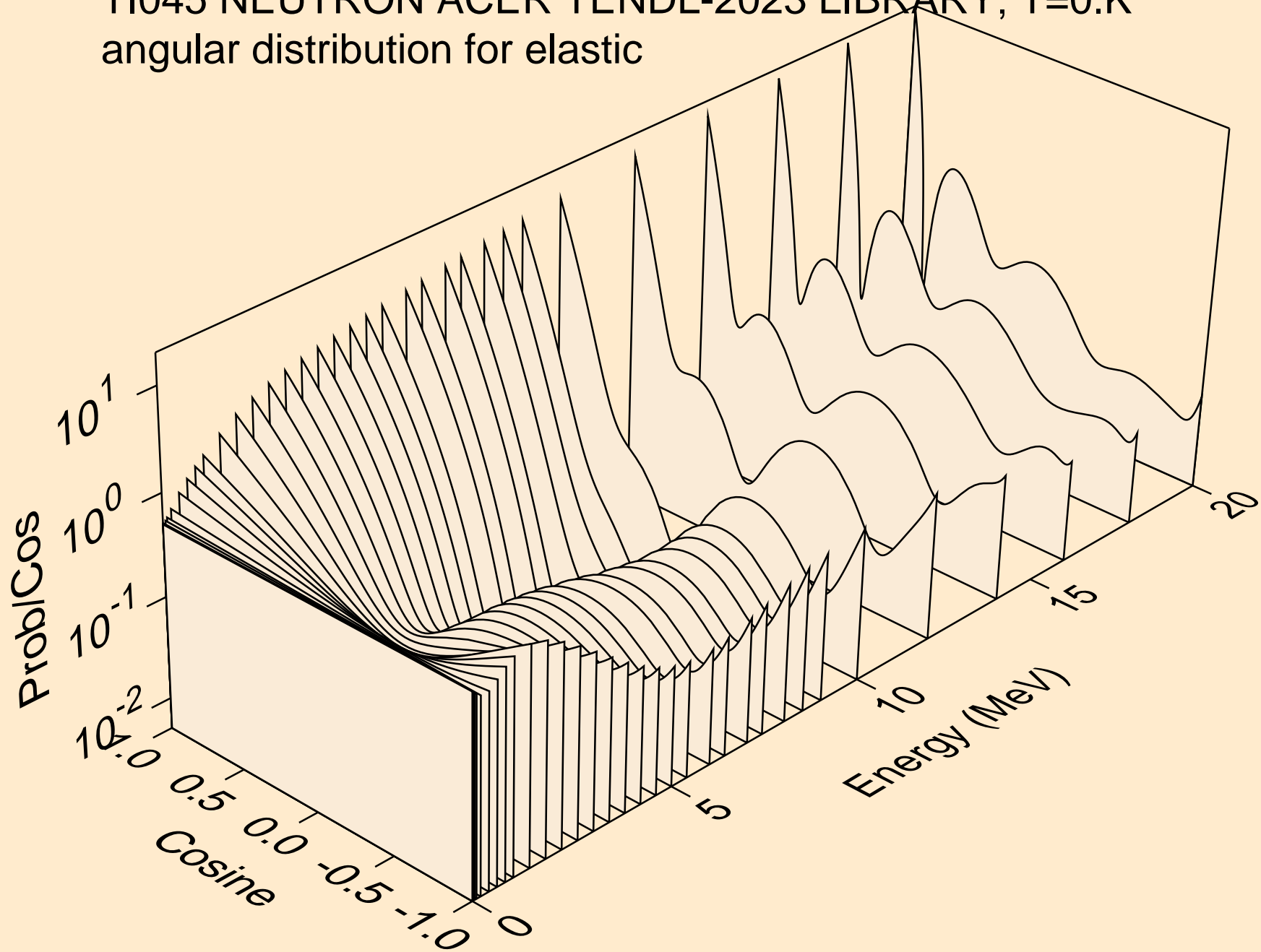


TI045 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Threshold reactions

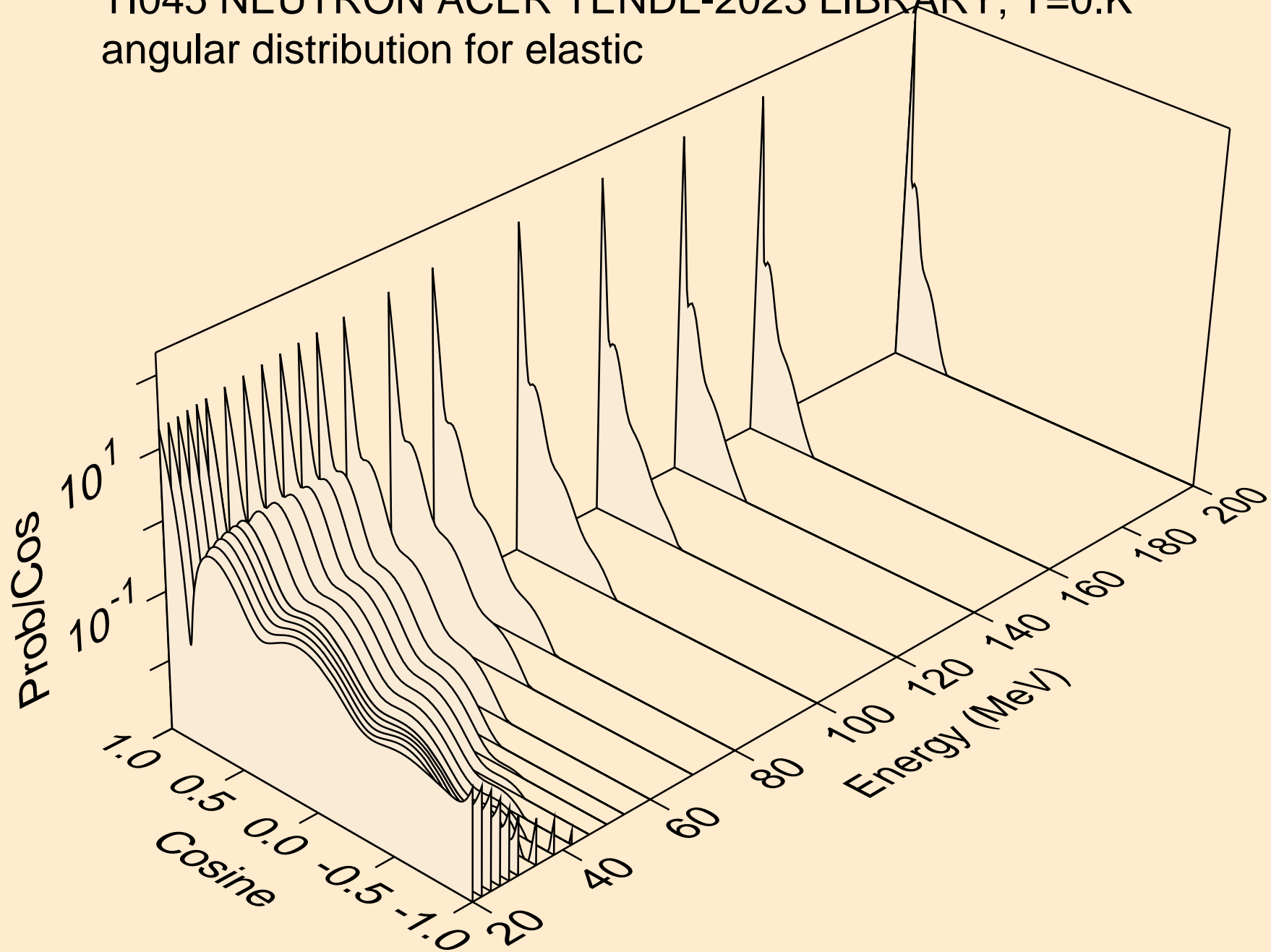




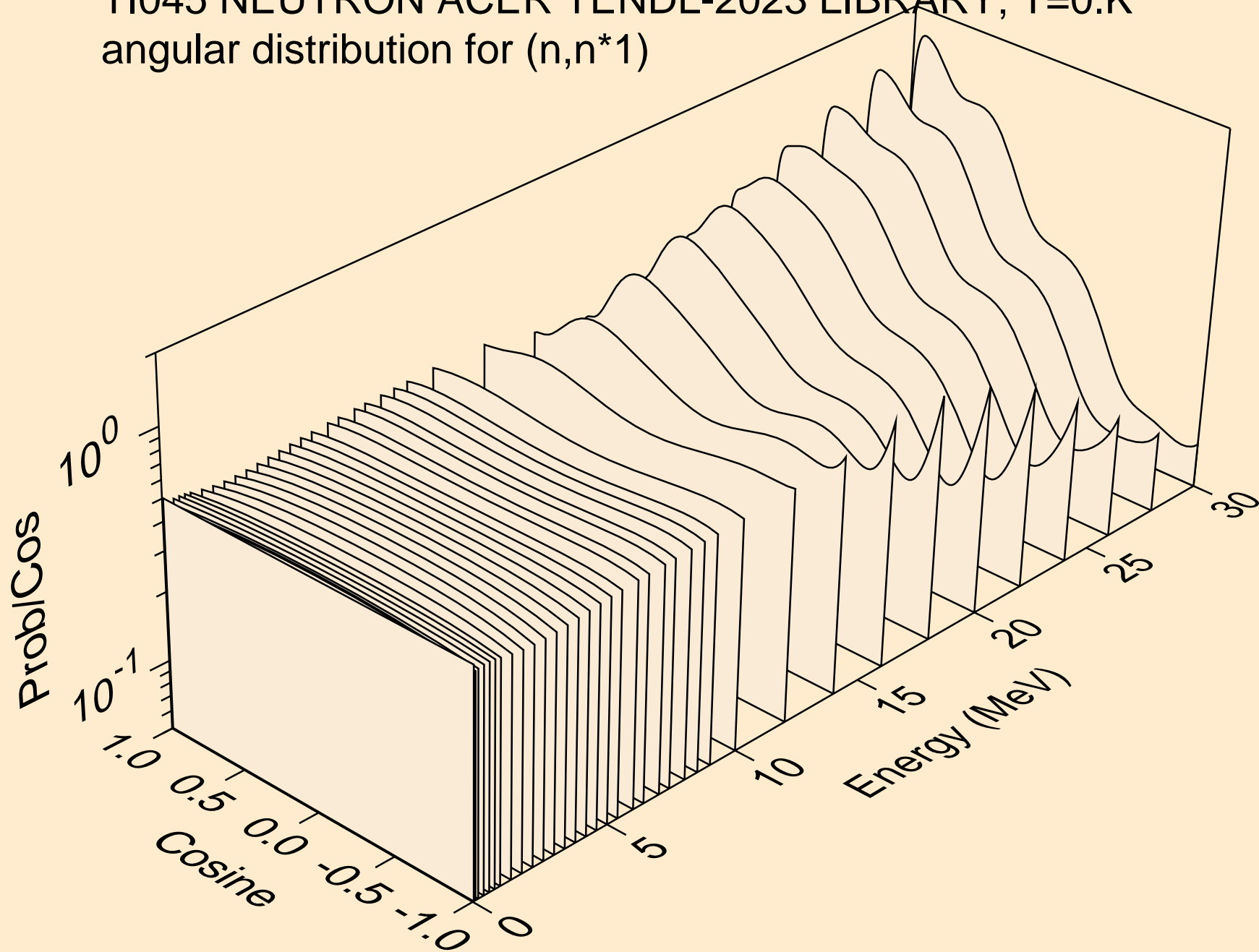
TI045 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for elastic



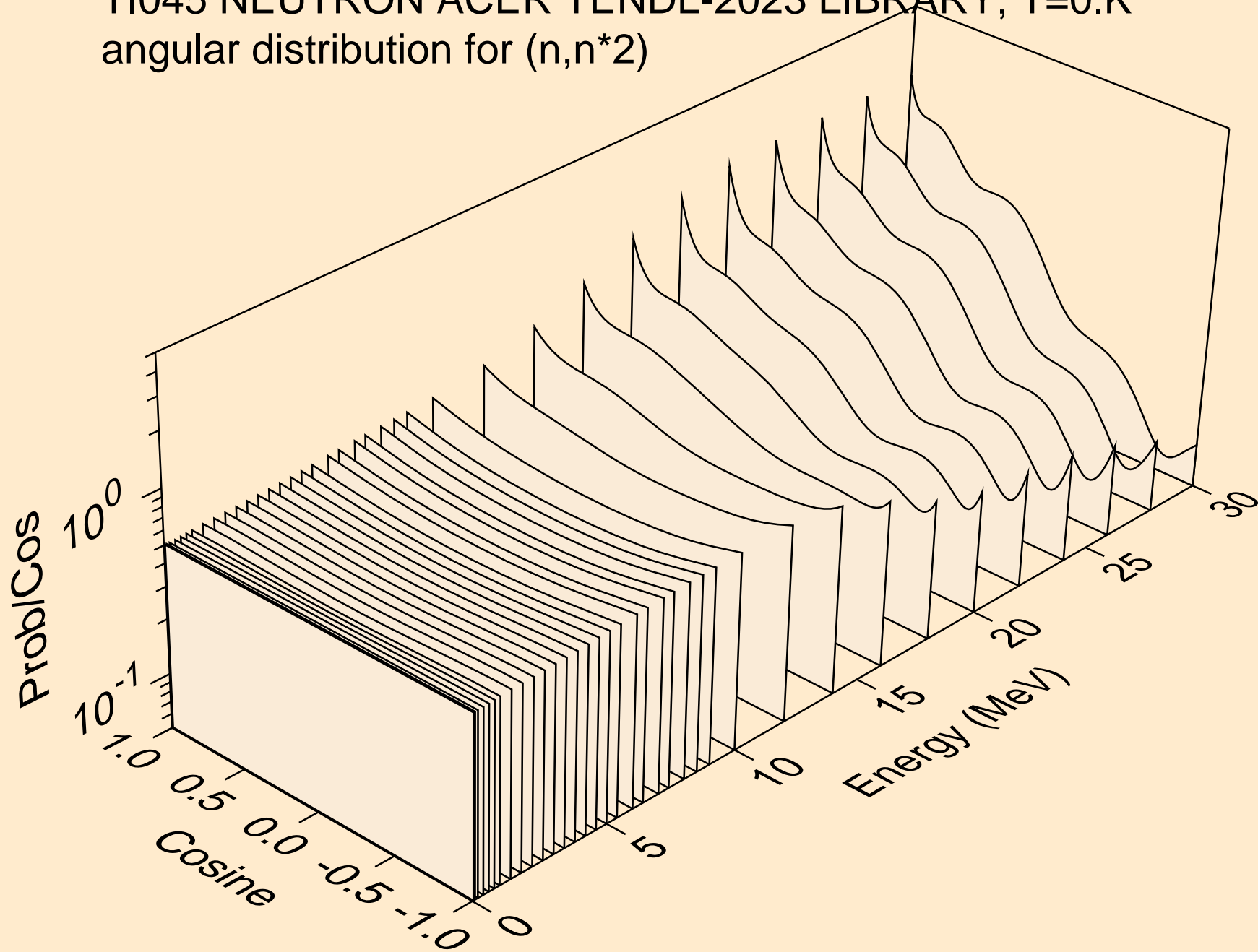
TI045 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for elastic



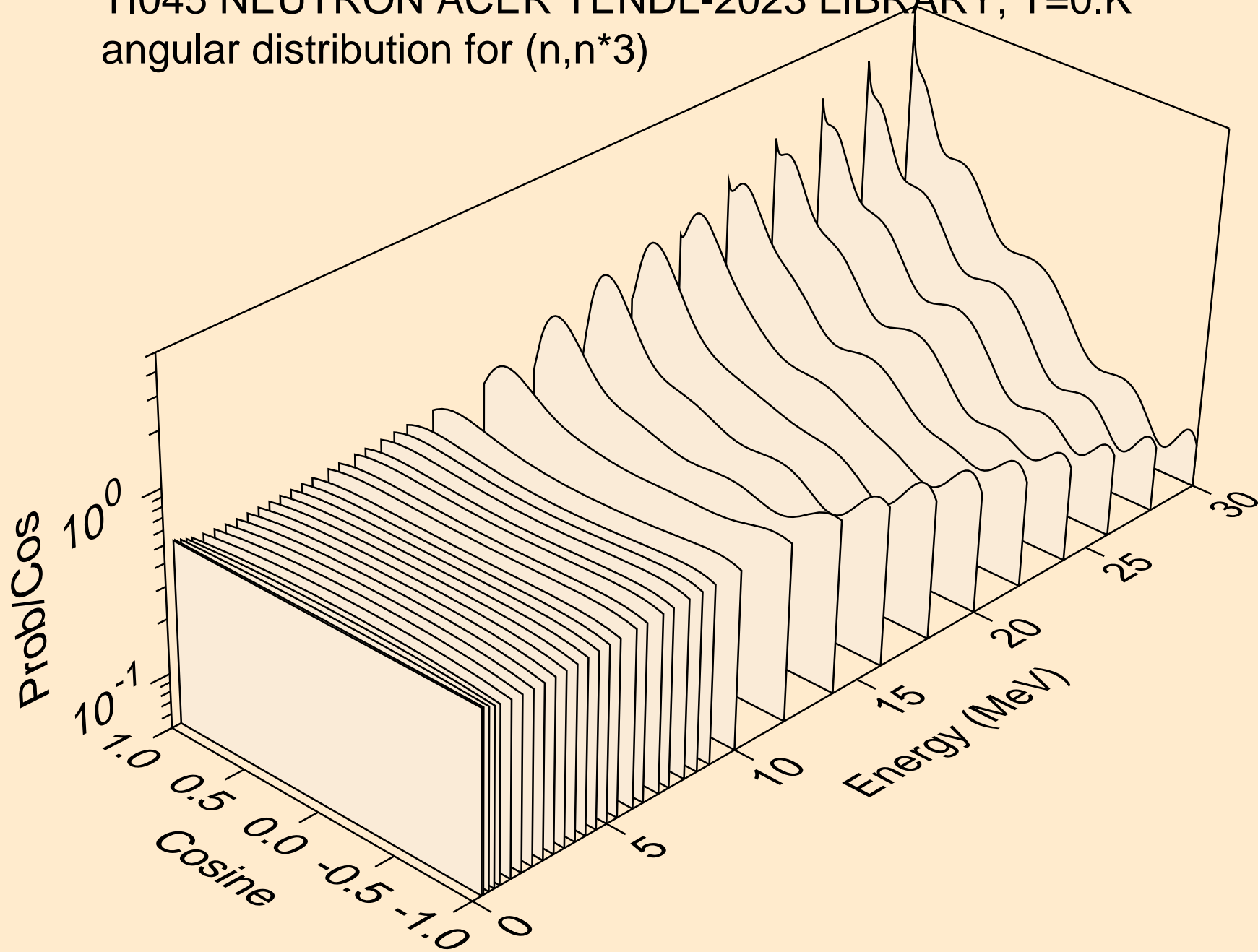
TI045 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*1)



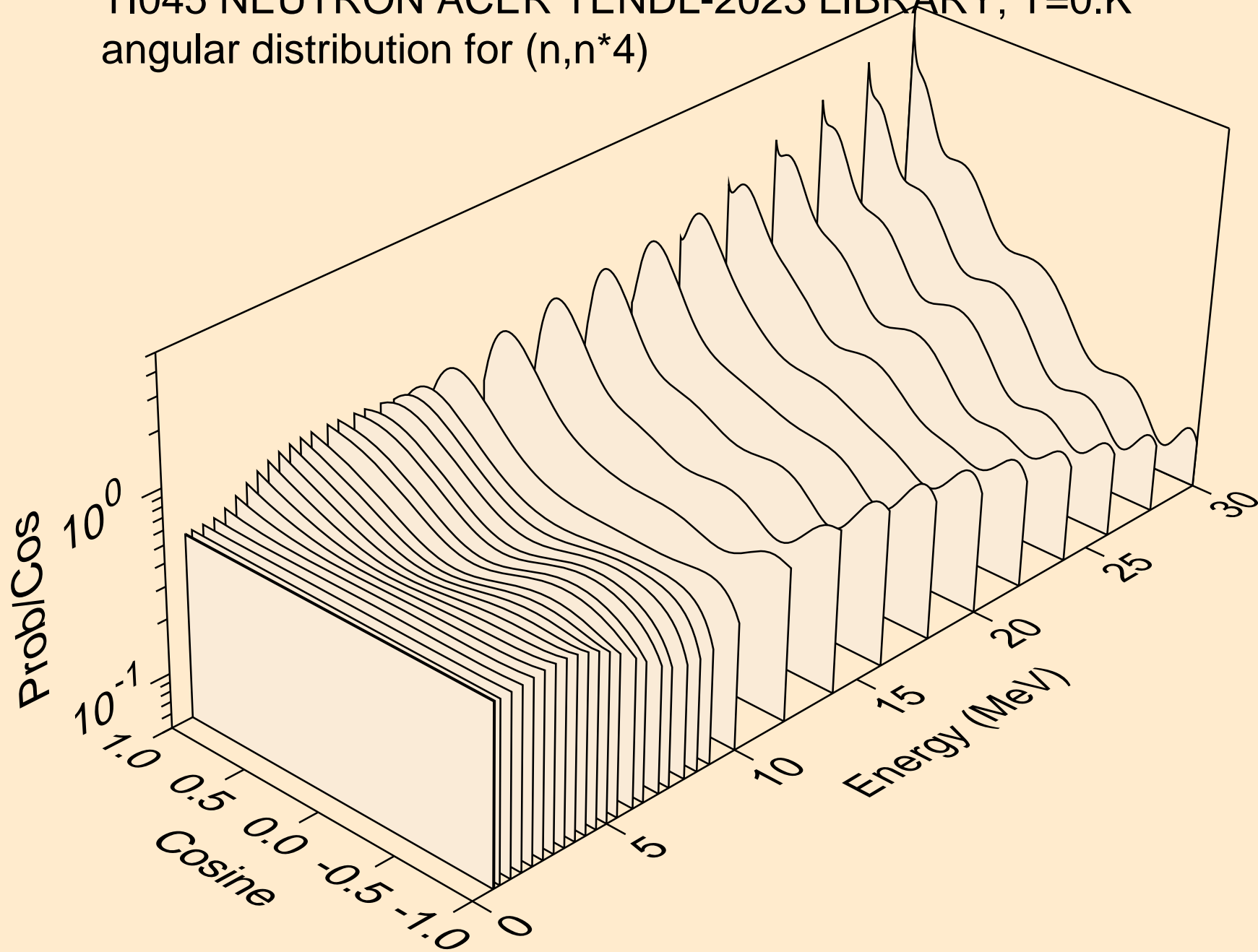
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angular distribution for (n,n\*2)



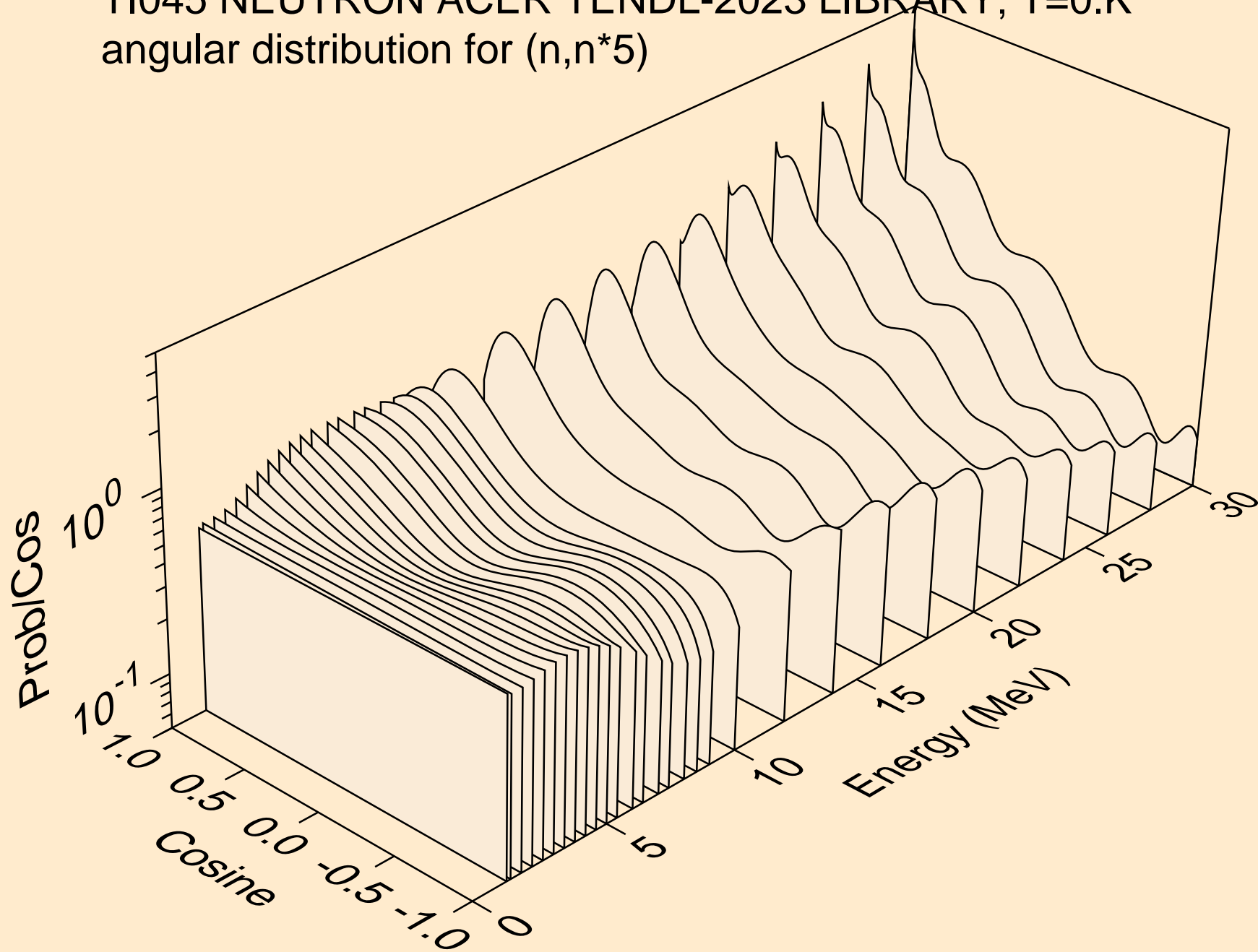
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angular distribution for (n,n\*3)



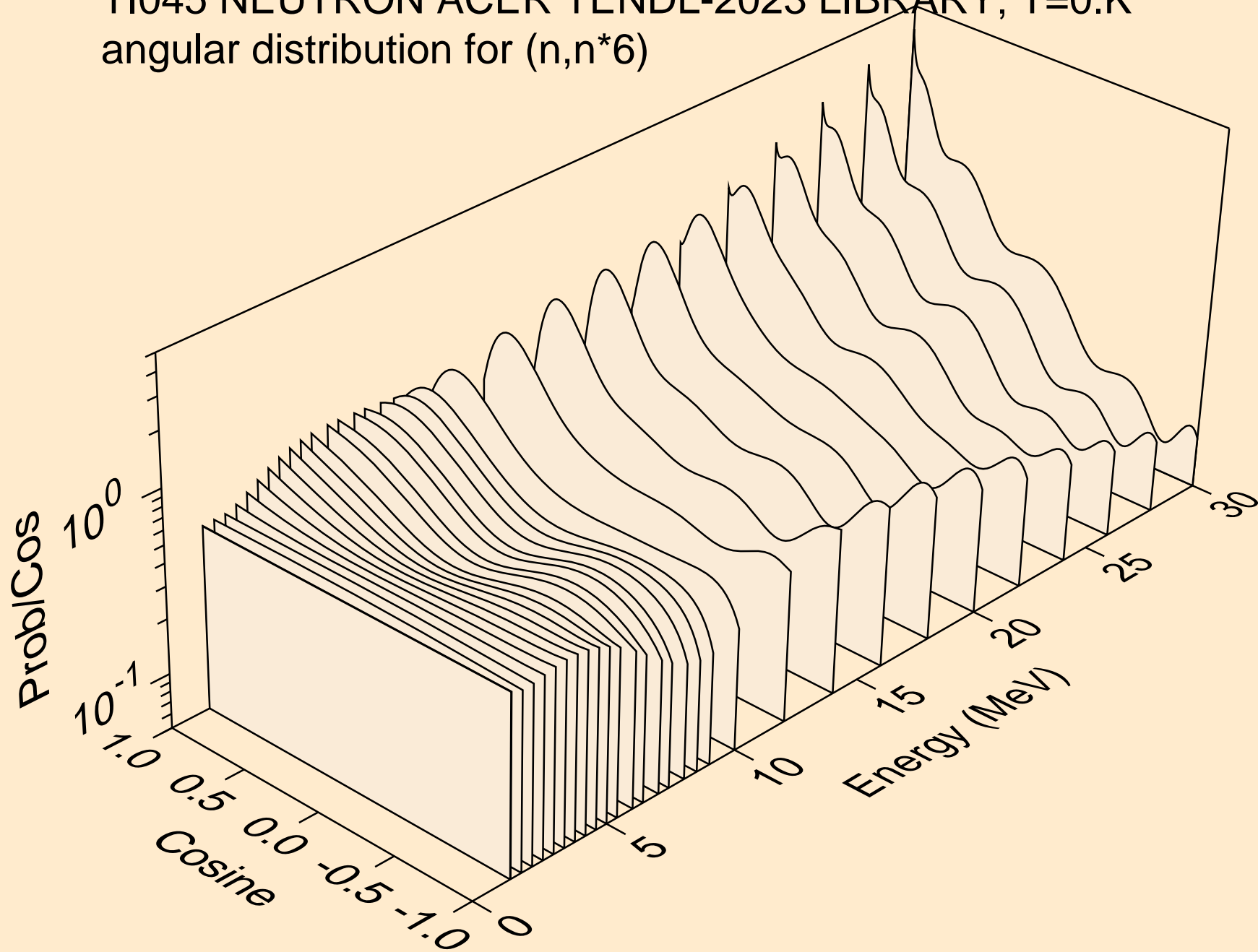
TI045 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*4)



TI045 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*5)

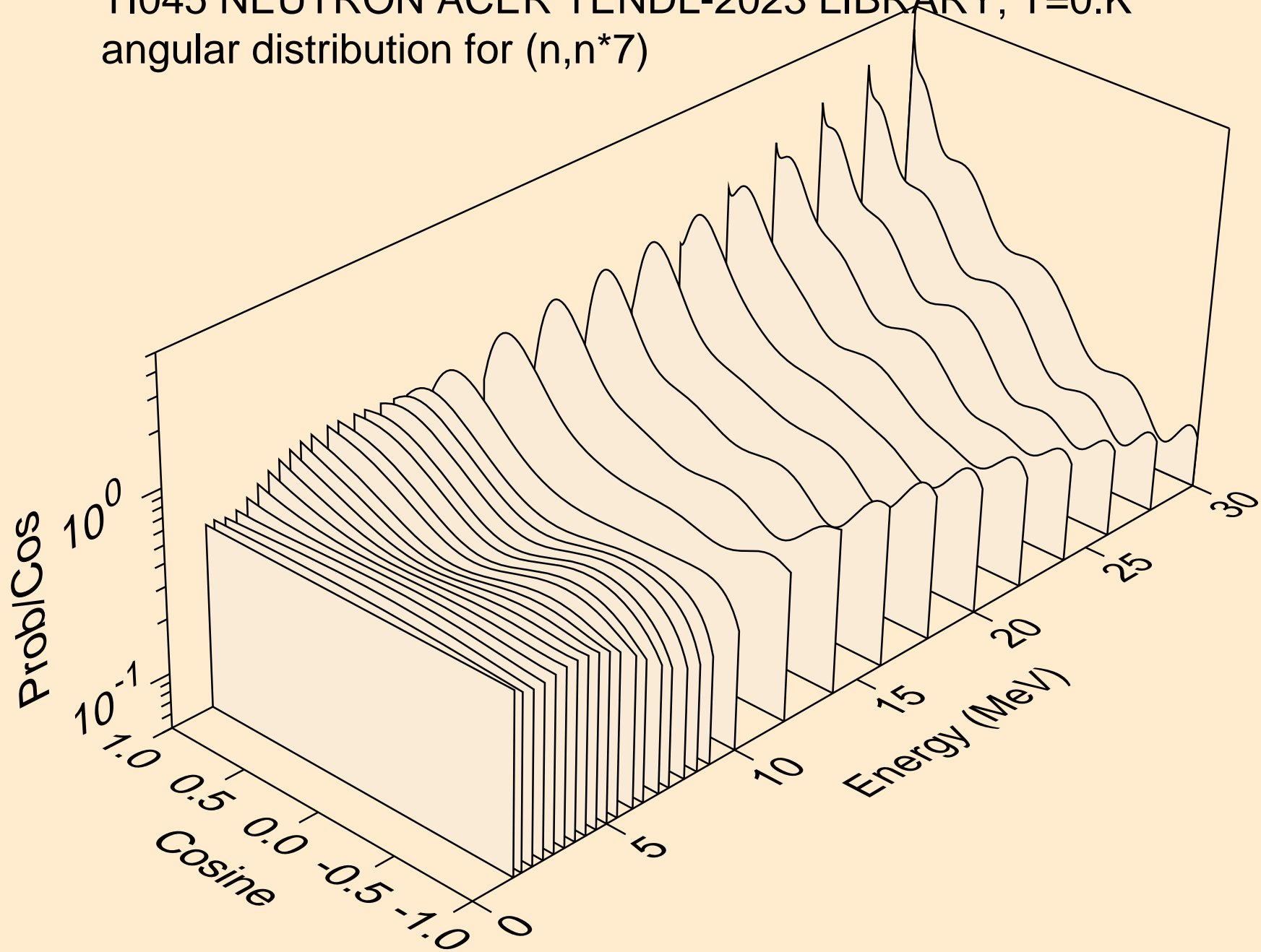


TI045 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*6)

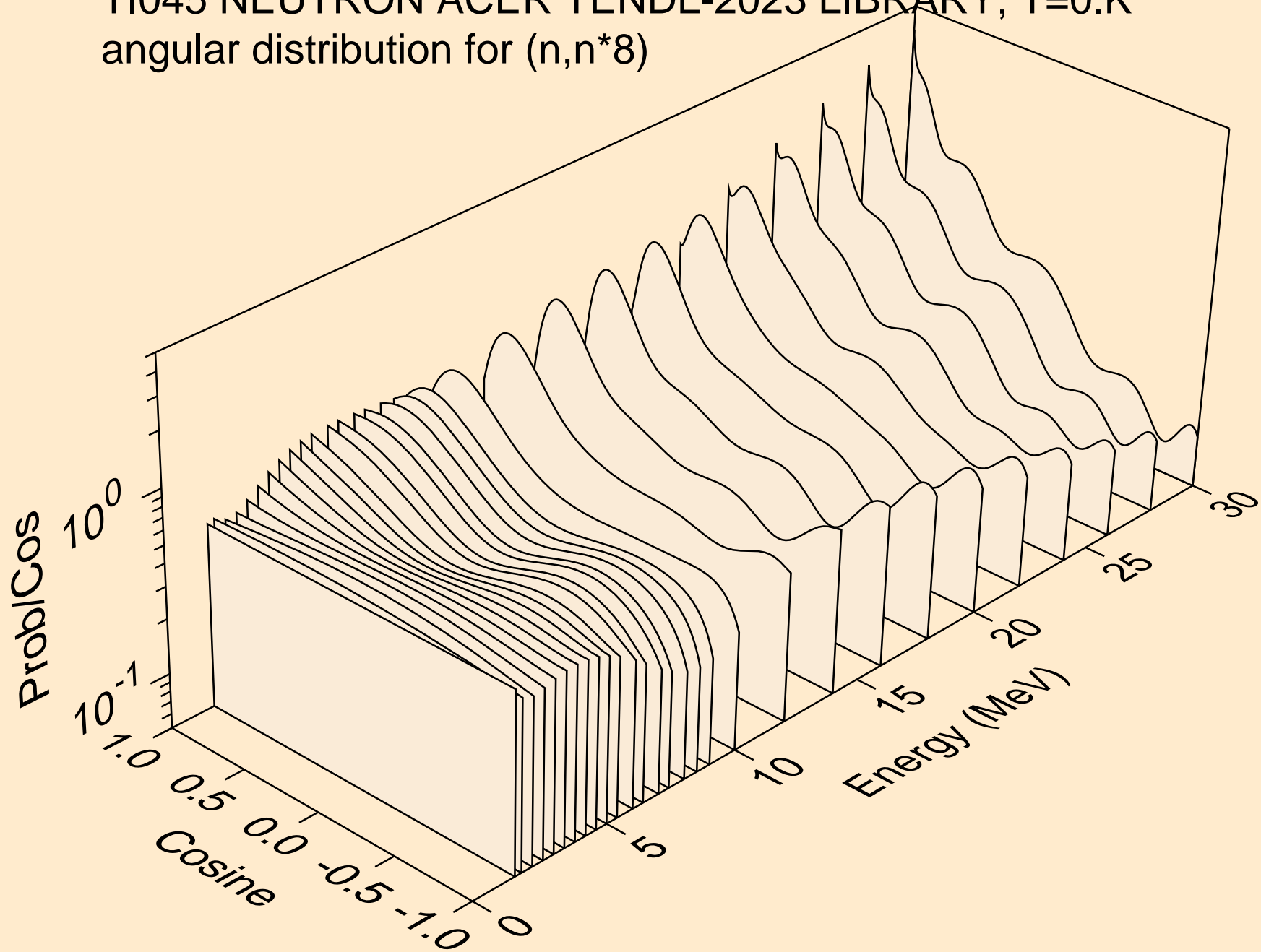




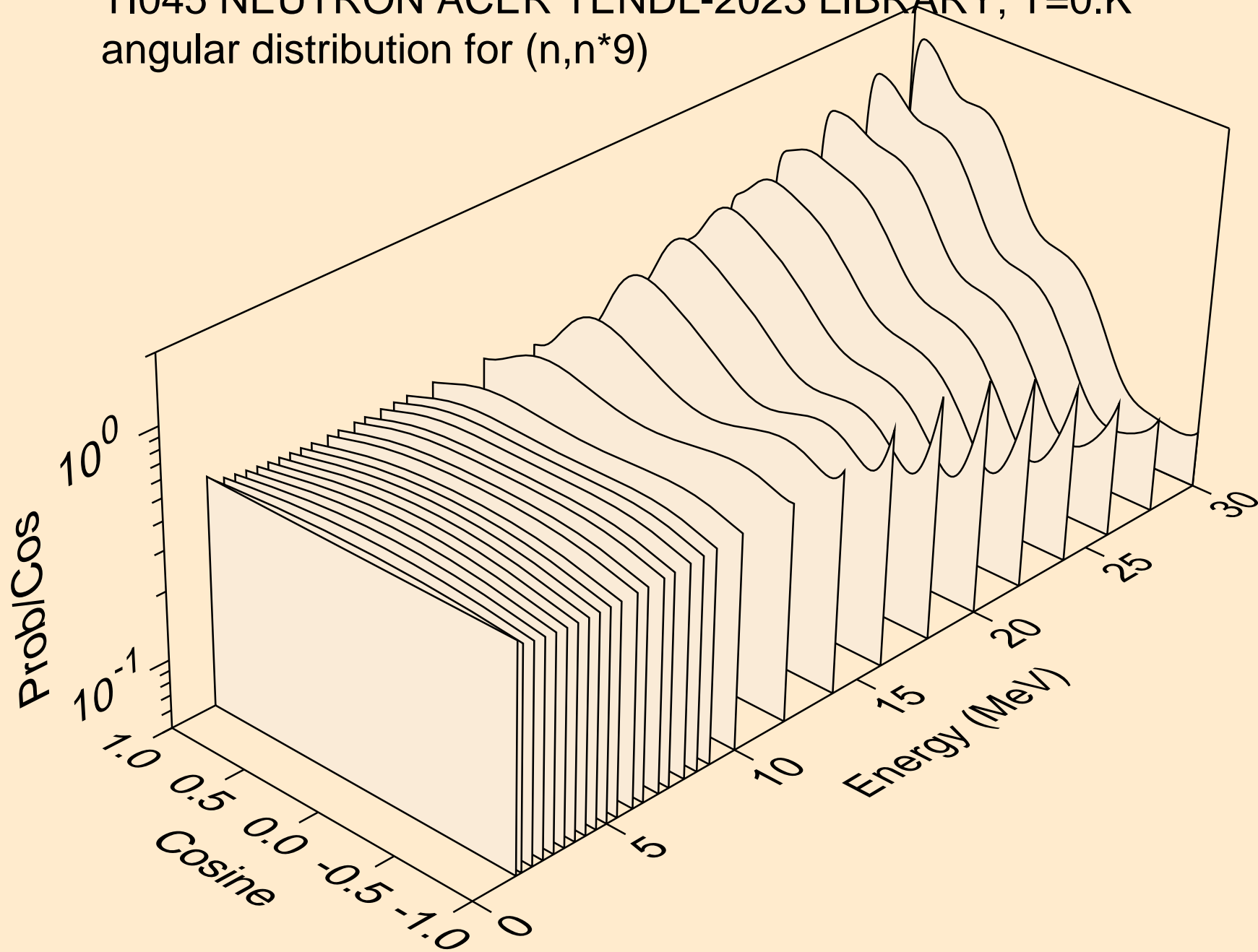
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angular distribution for (n,n\*7)



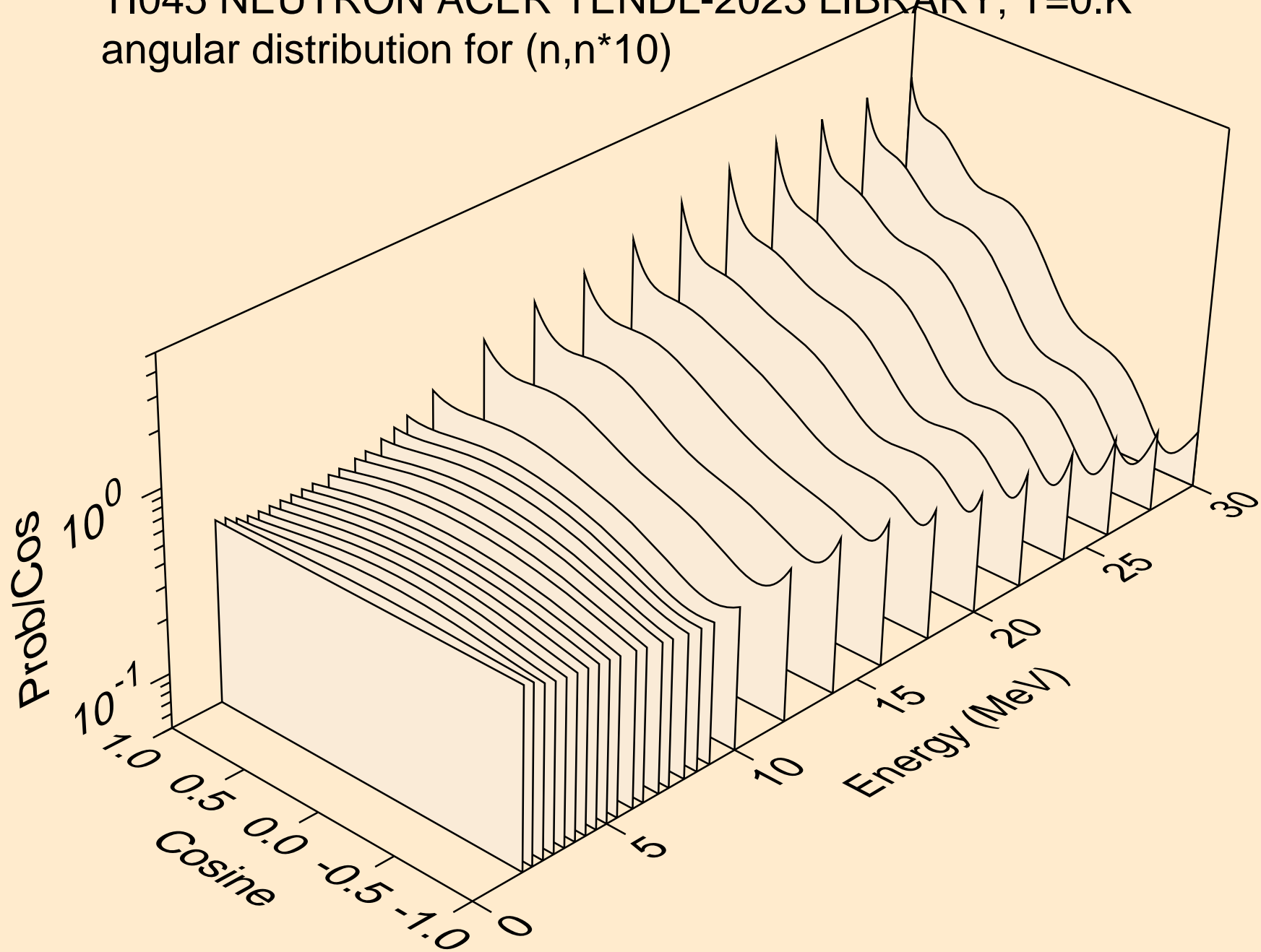
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angular distribution for (n,n\*8)



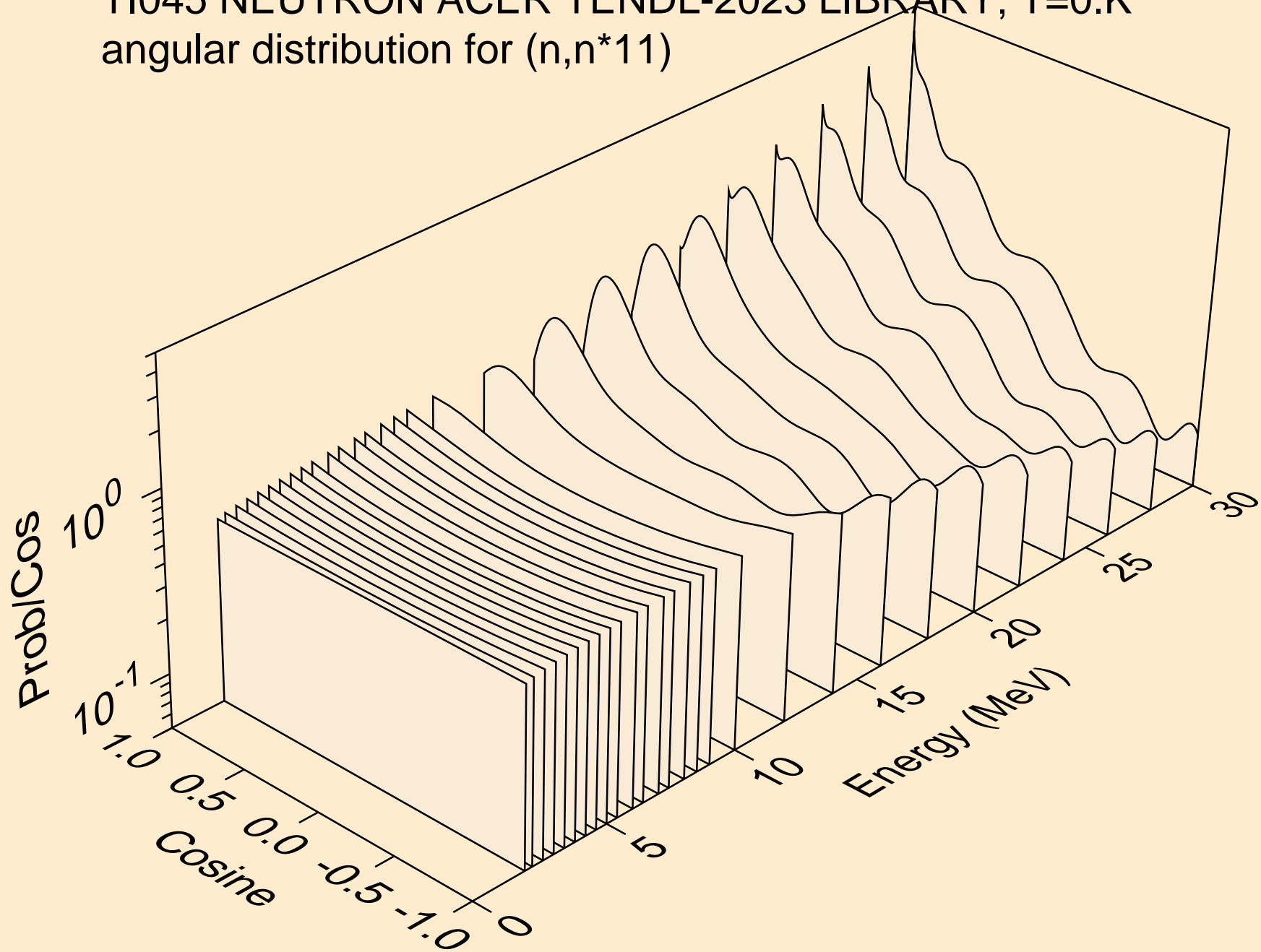
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angular distribution for (n,n\*9)



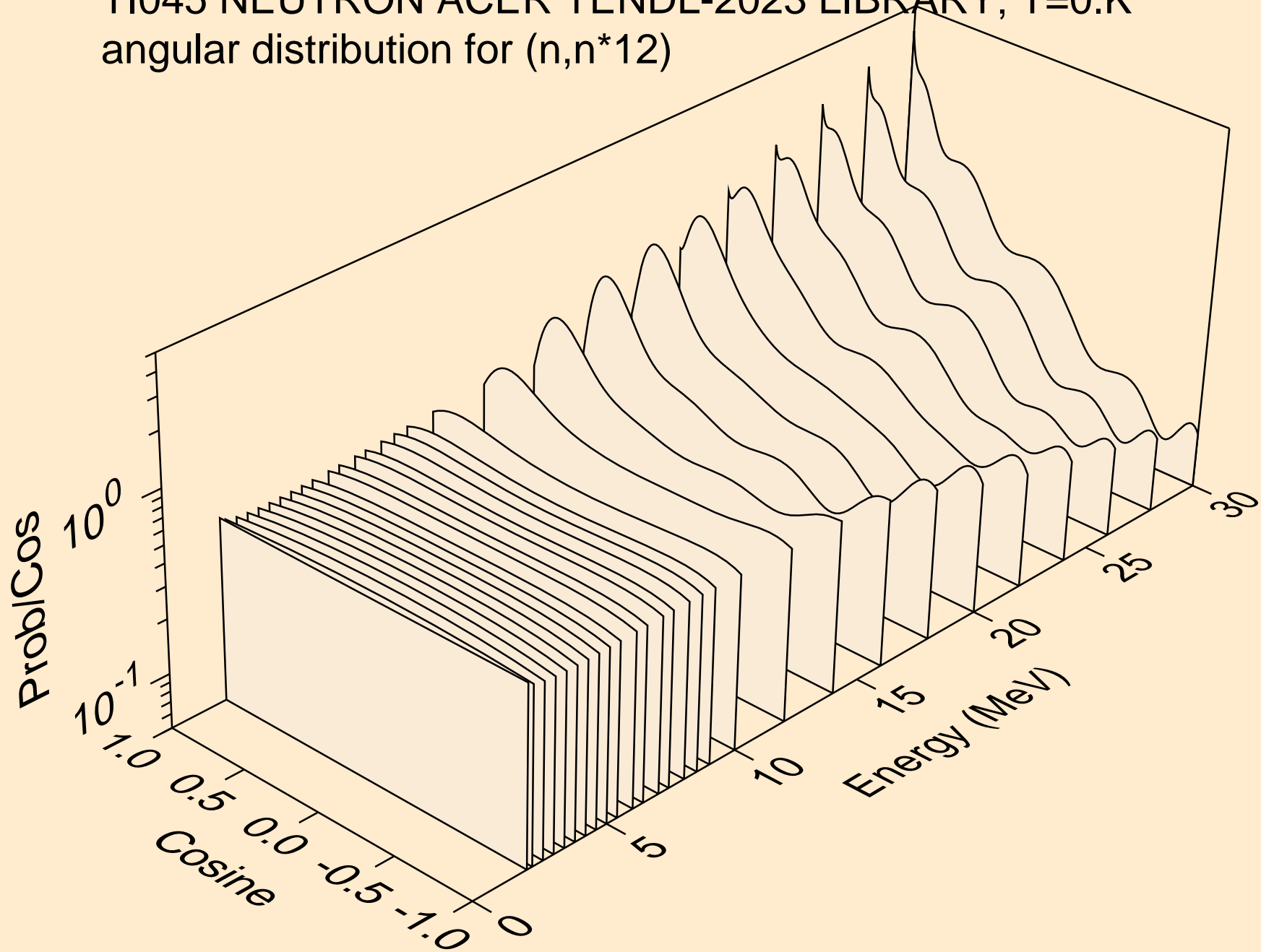
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angular distribution for (n,n\*10)



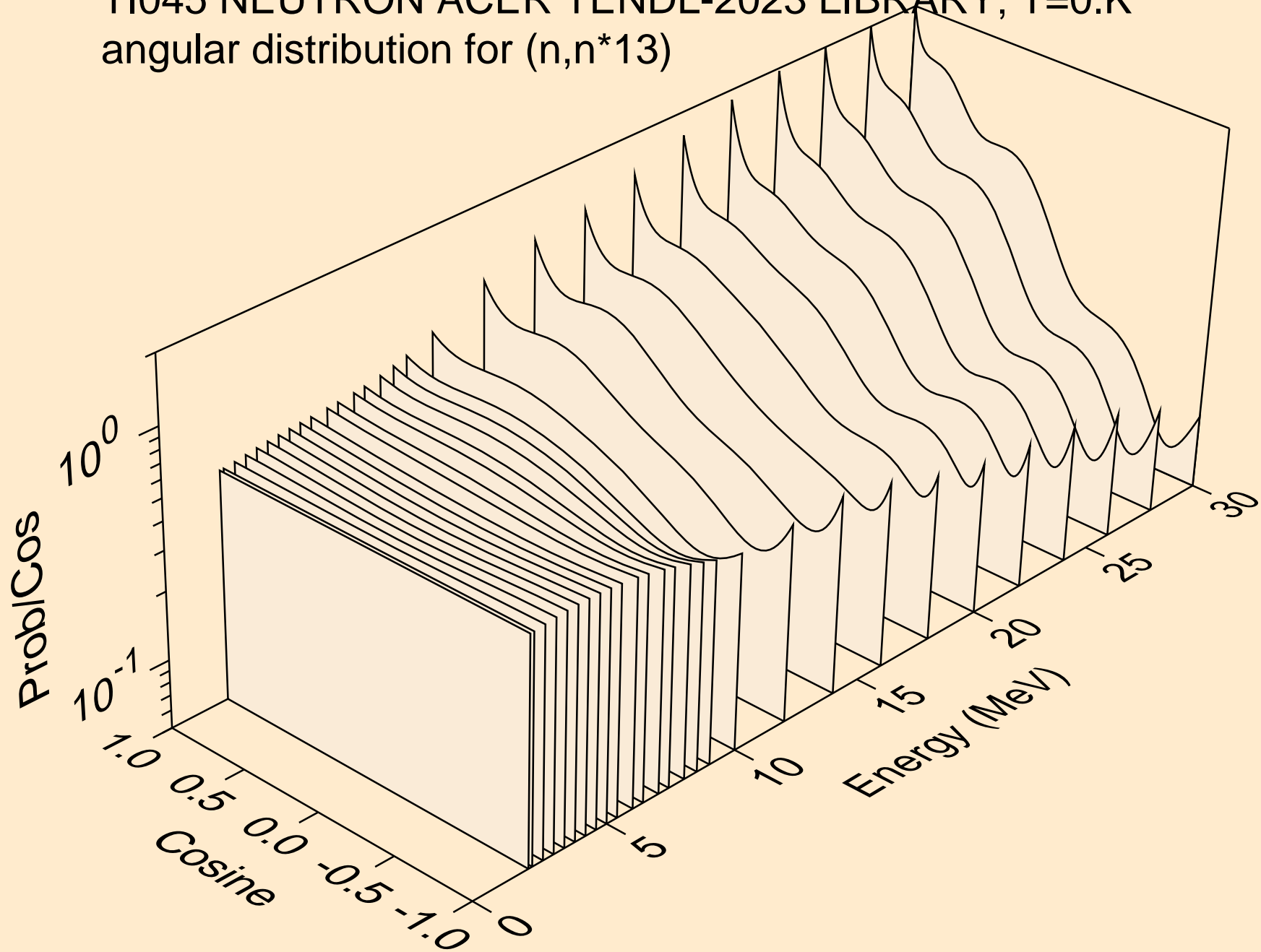
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angular distribution for (n,n\*11)



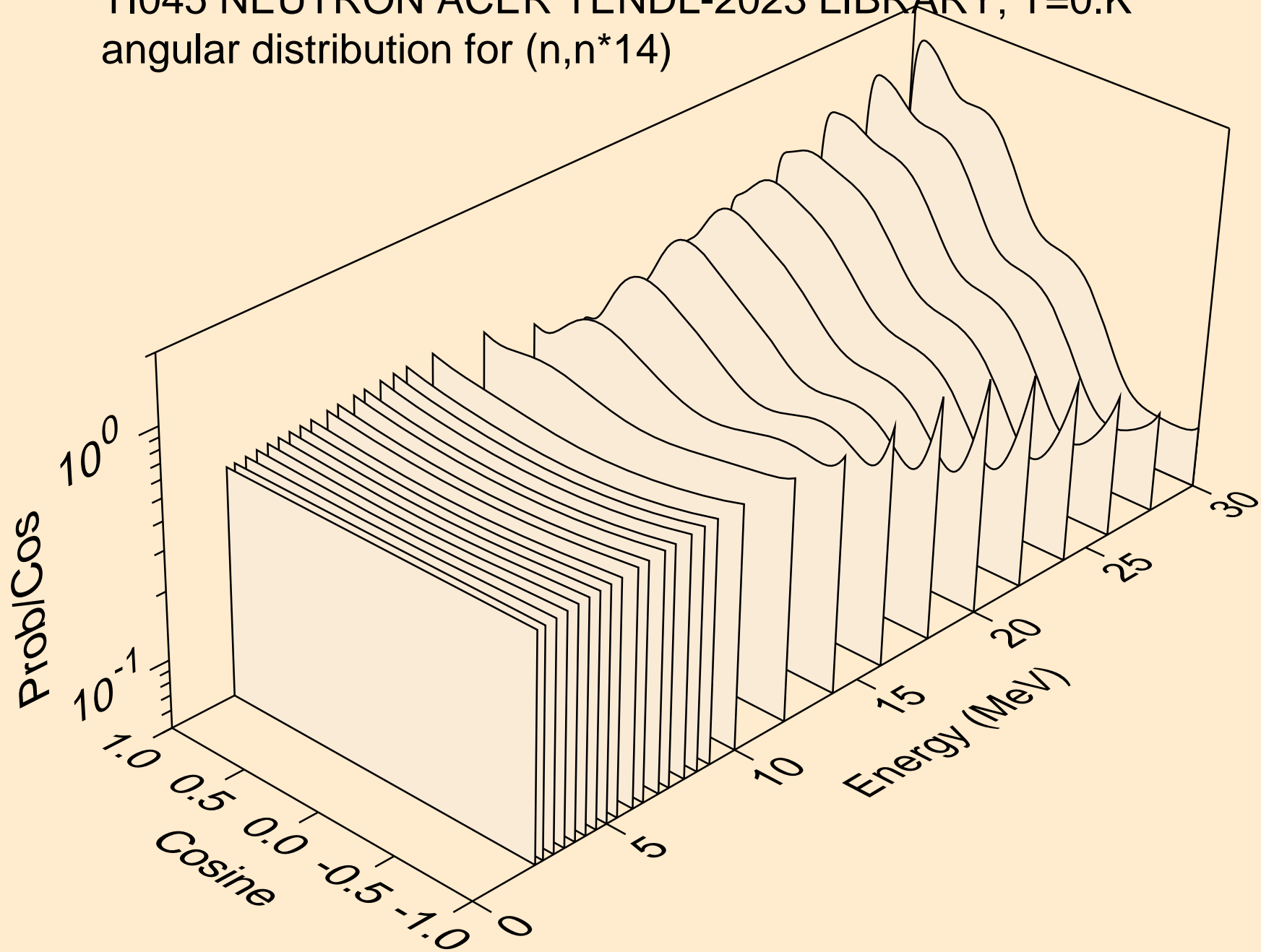
TI045 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*12)



TI045 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*13)

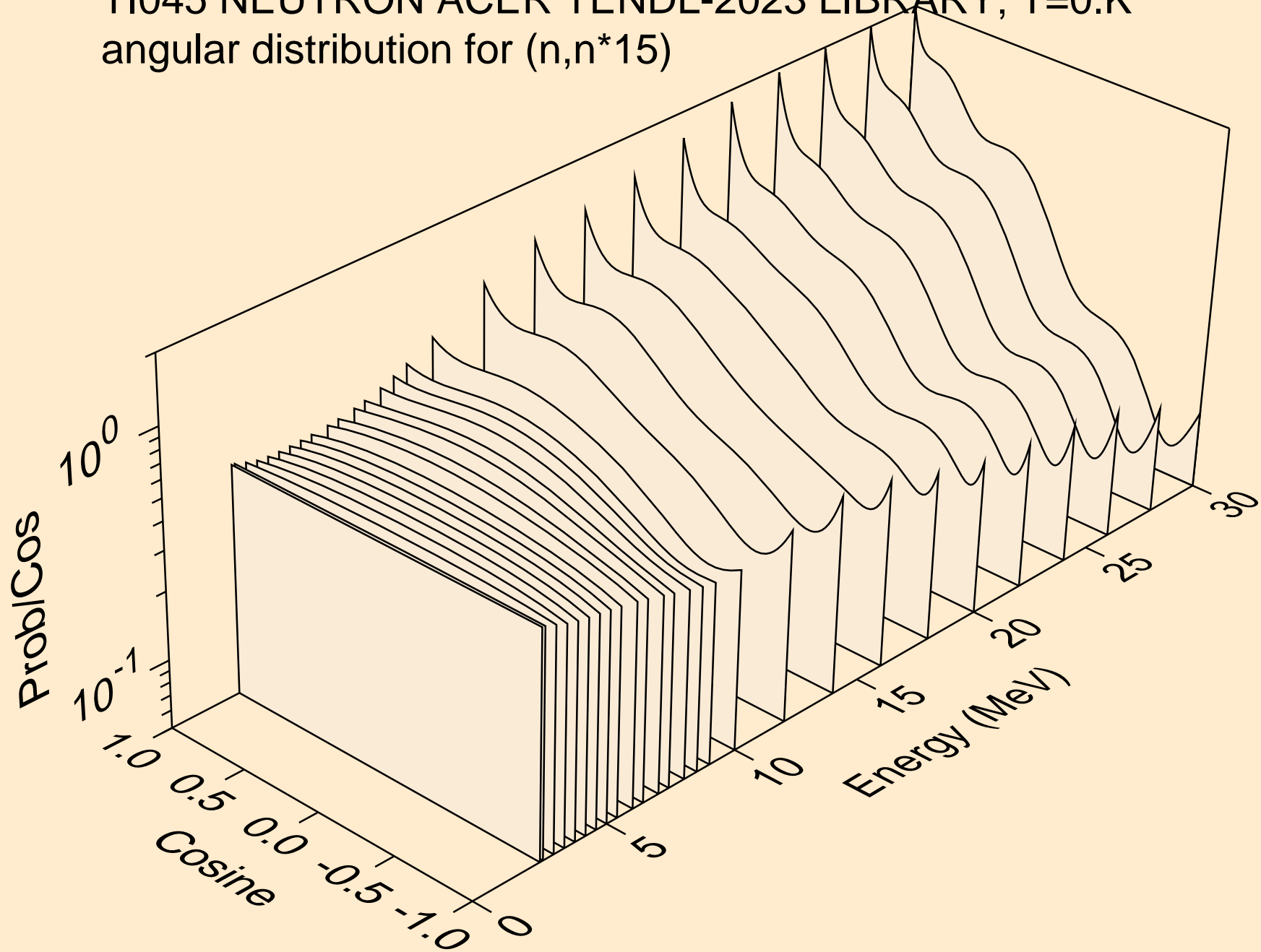


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angular distribution for (n,n\*14)

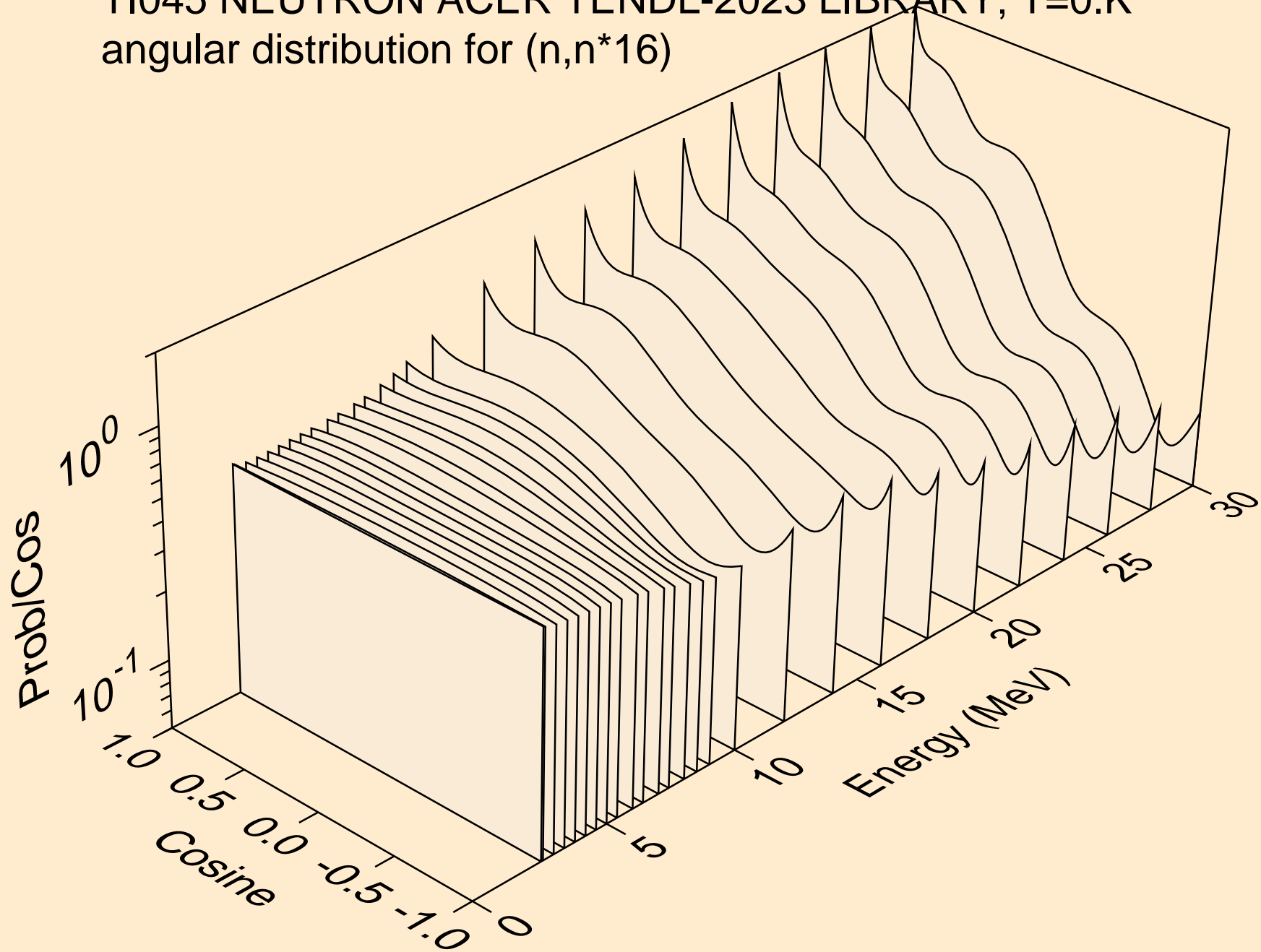




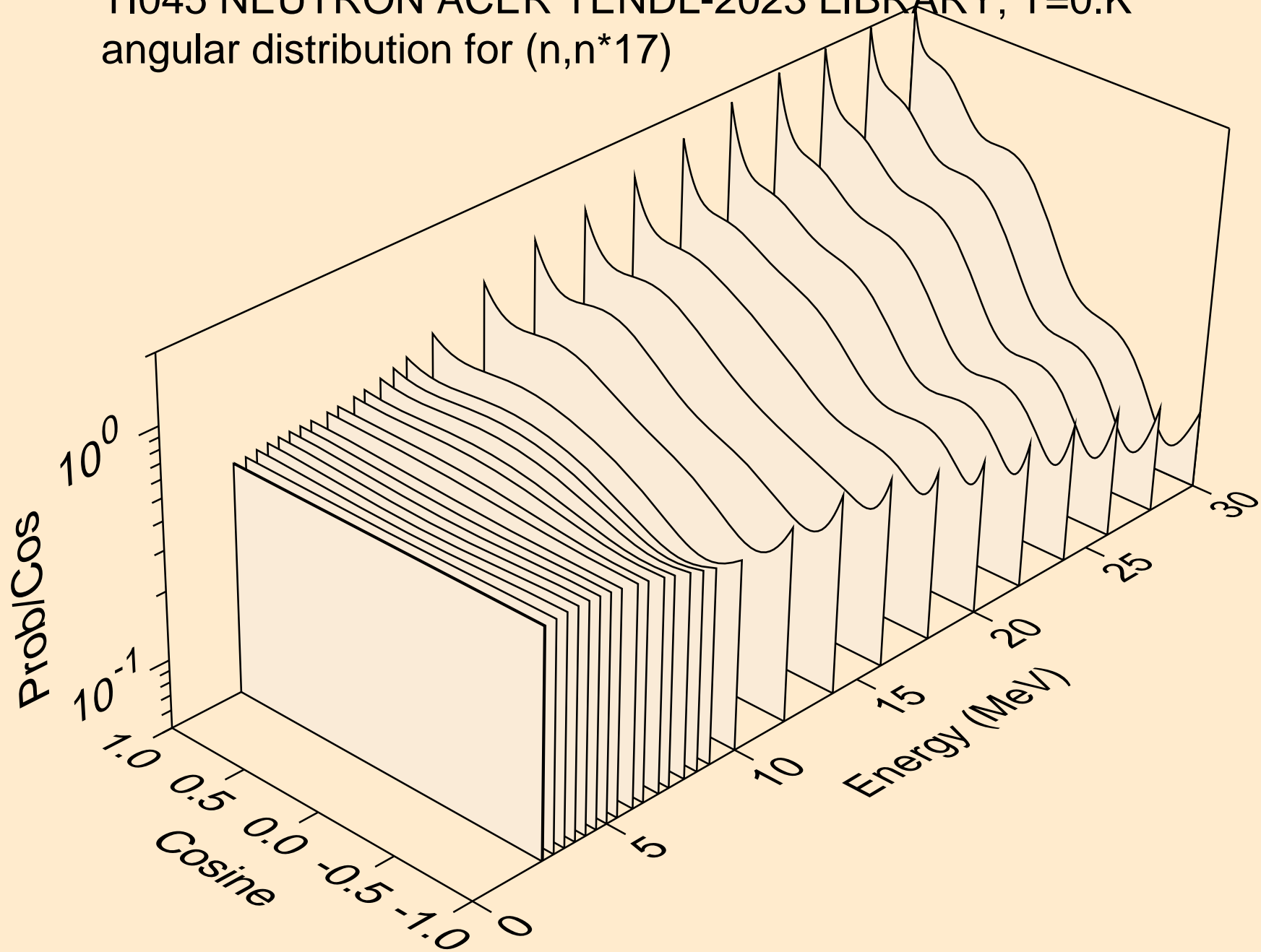
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angular distribution for (n,n\*15)



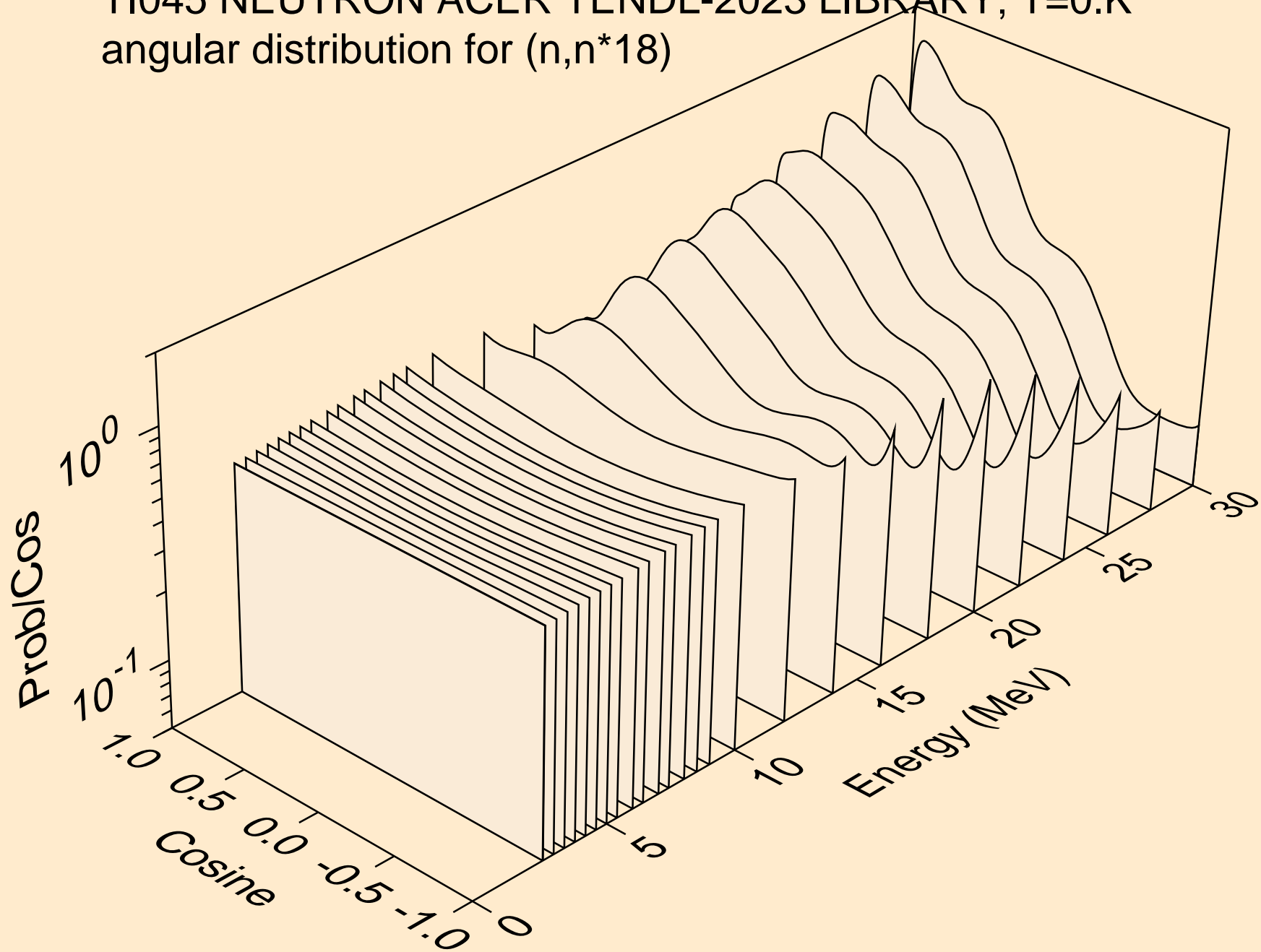
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angular distribution for (n,n\*16)



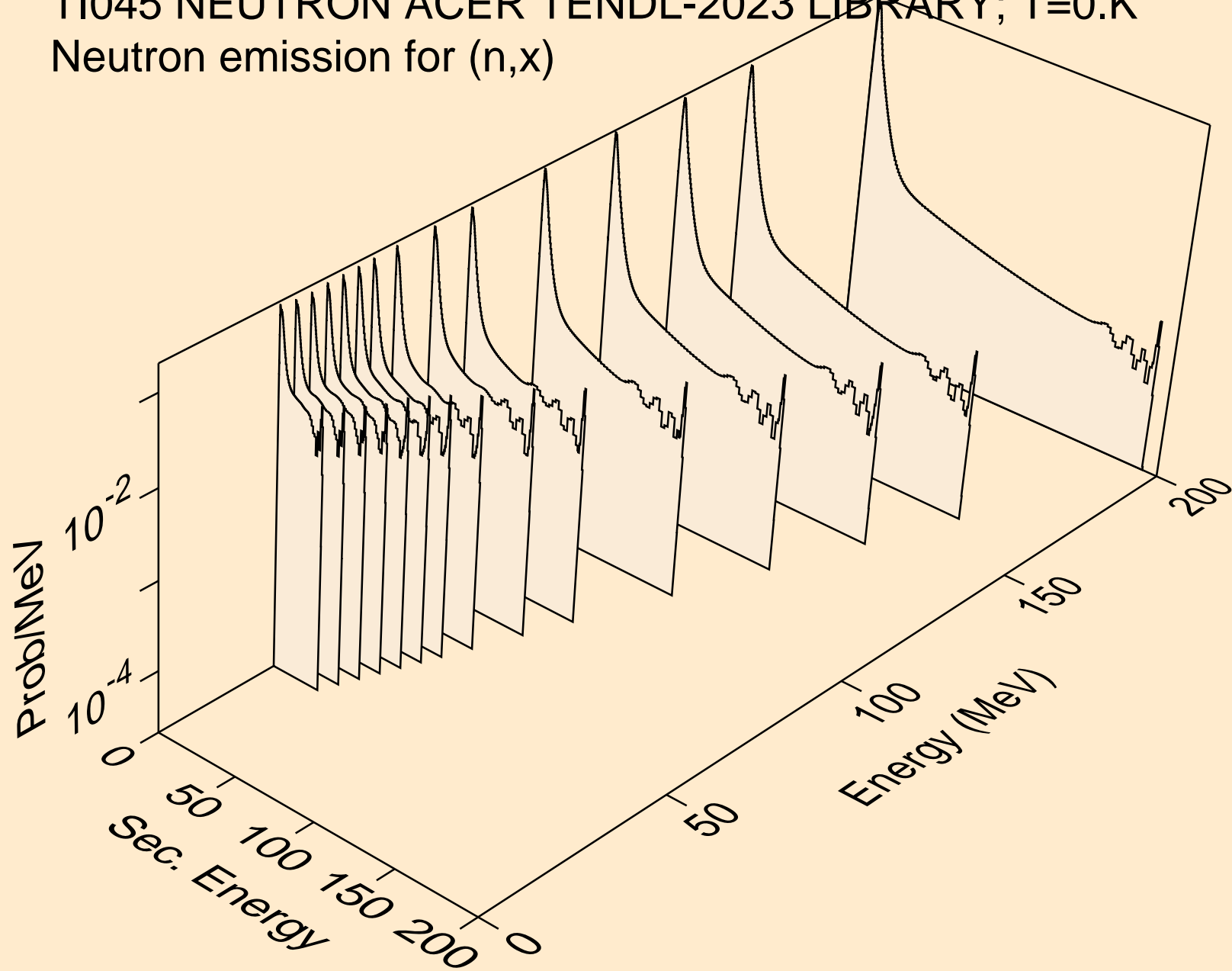
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angular distribution for (n,n\*17)



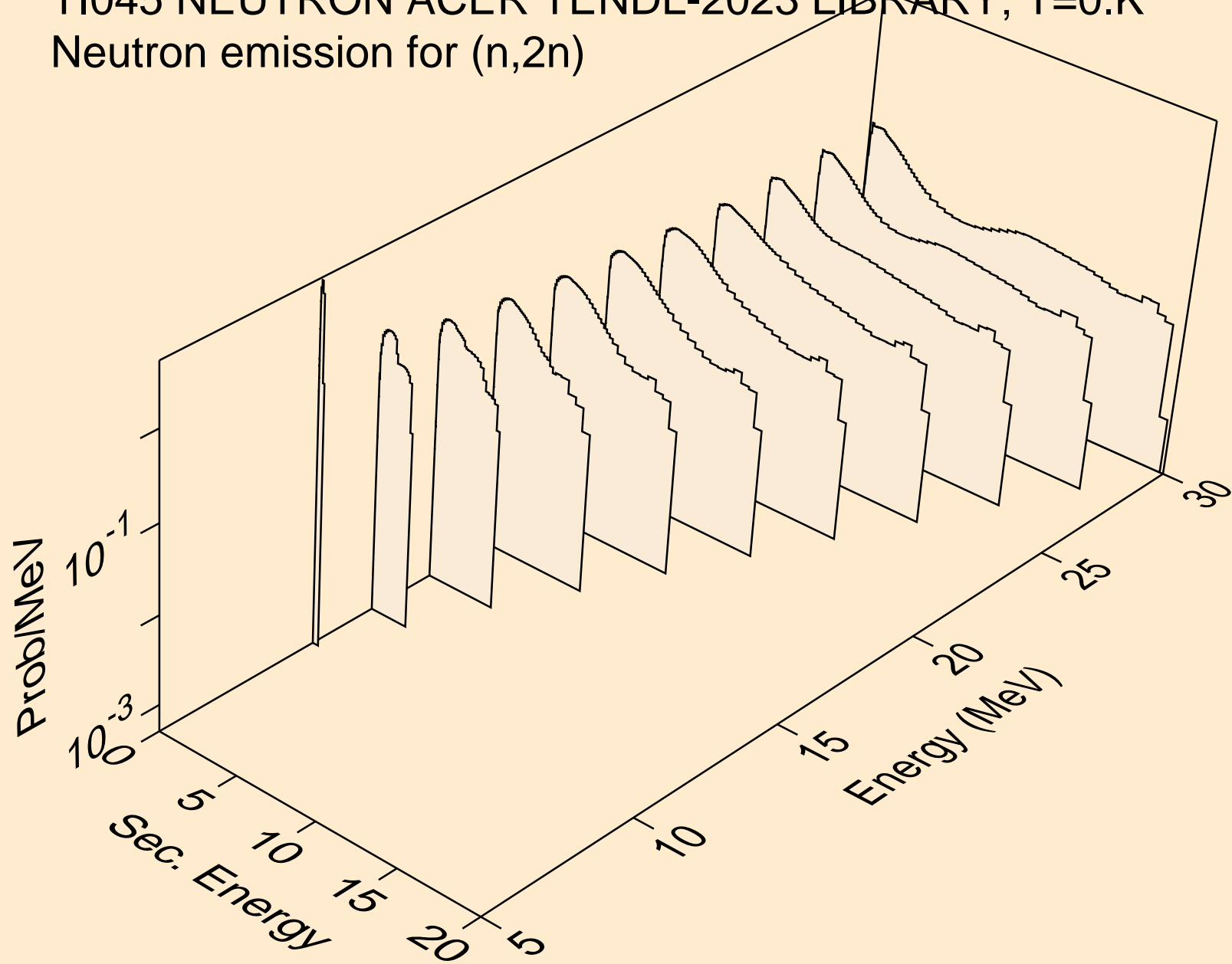
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angular distribution for (n,n\*18)



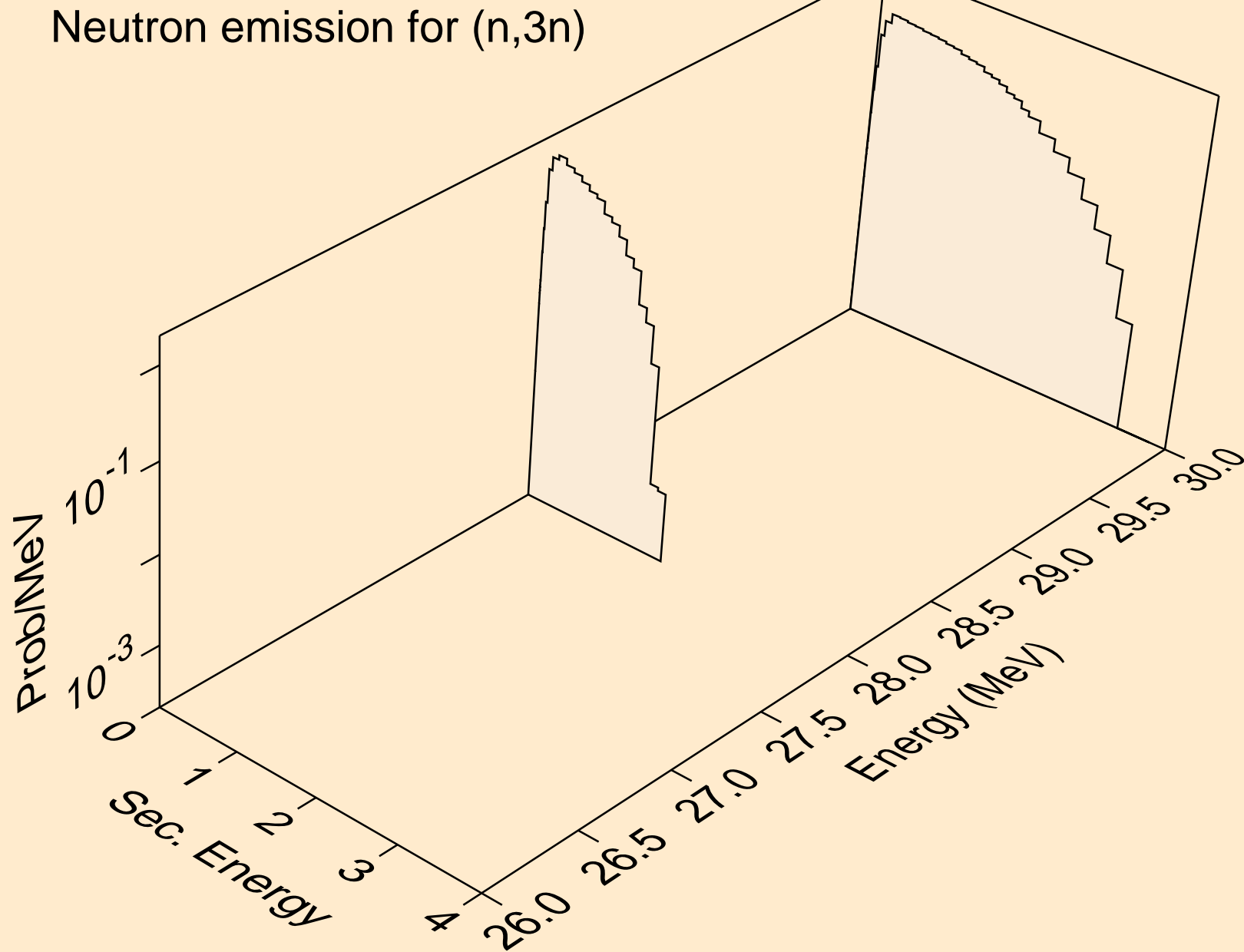
TI045 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,x)



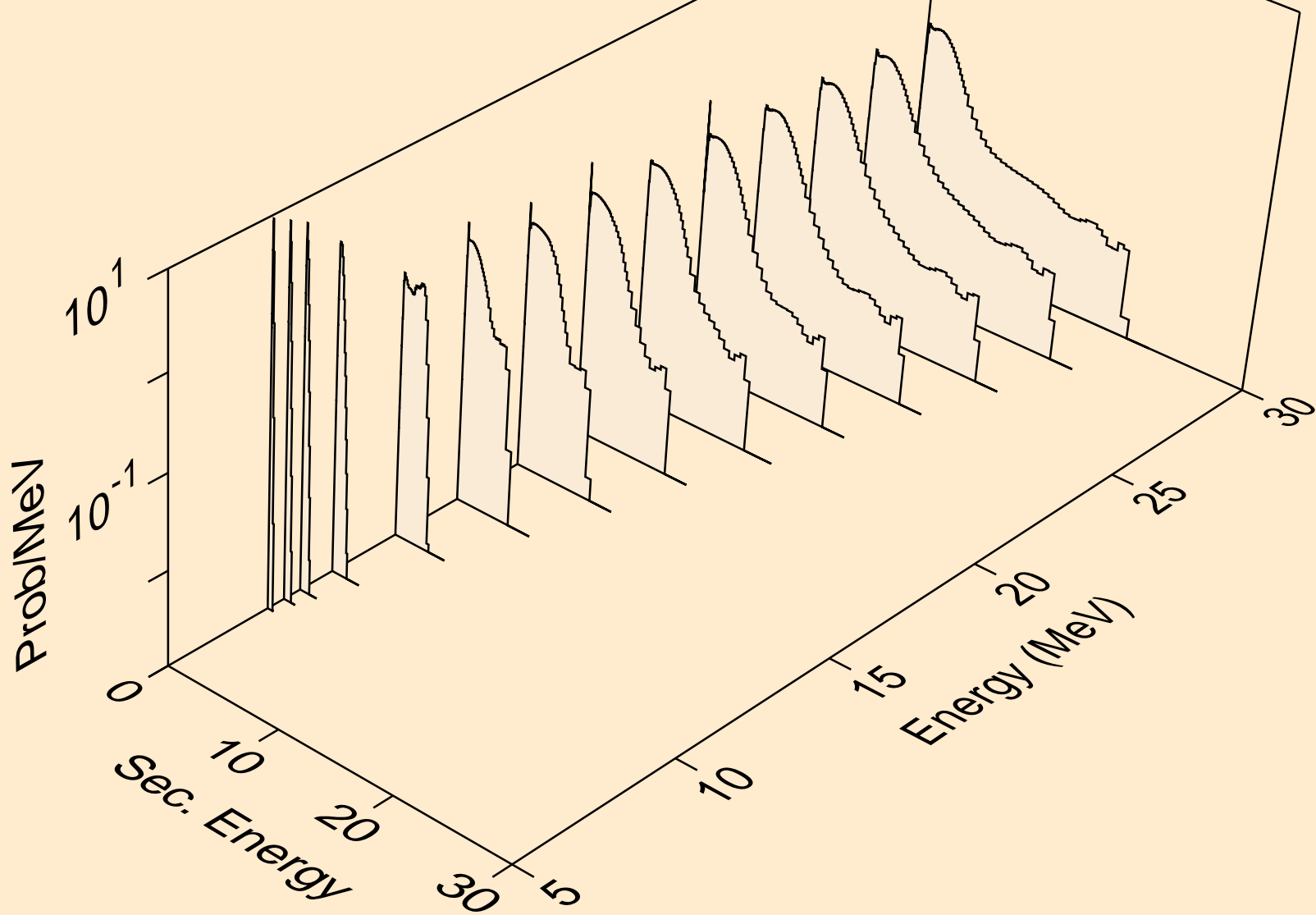
TI045 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,2n)



TI045 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,3n)

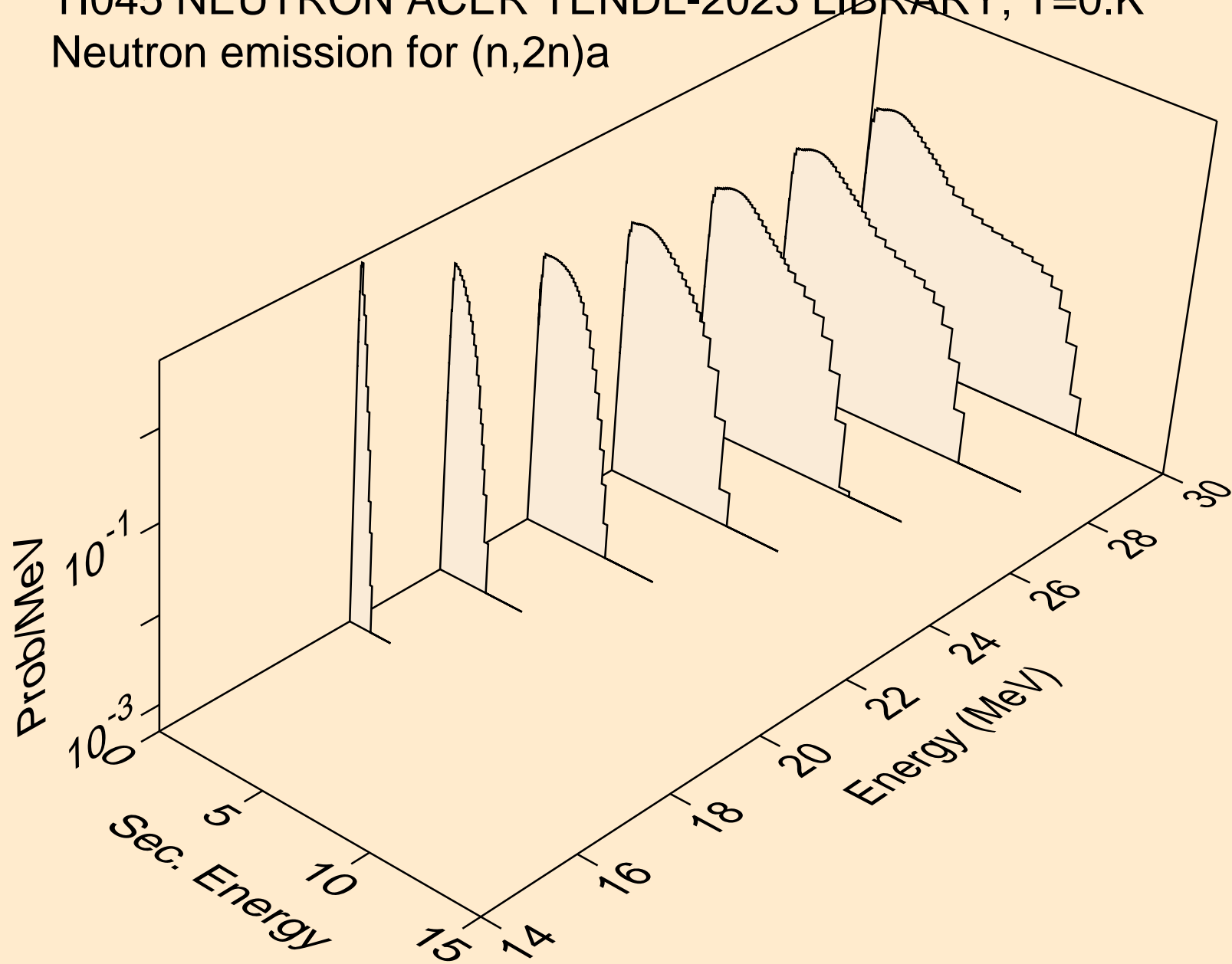


TI045 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,n\*)a

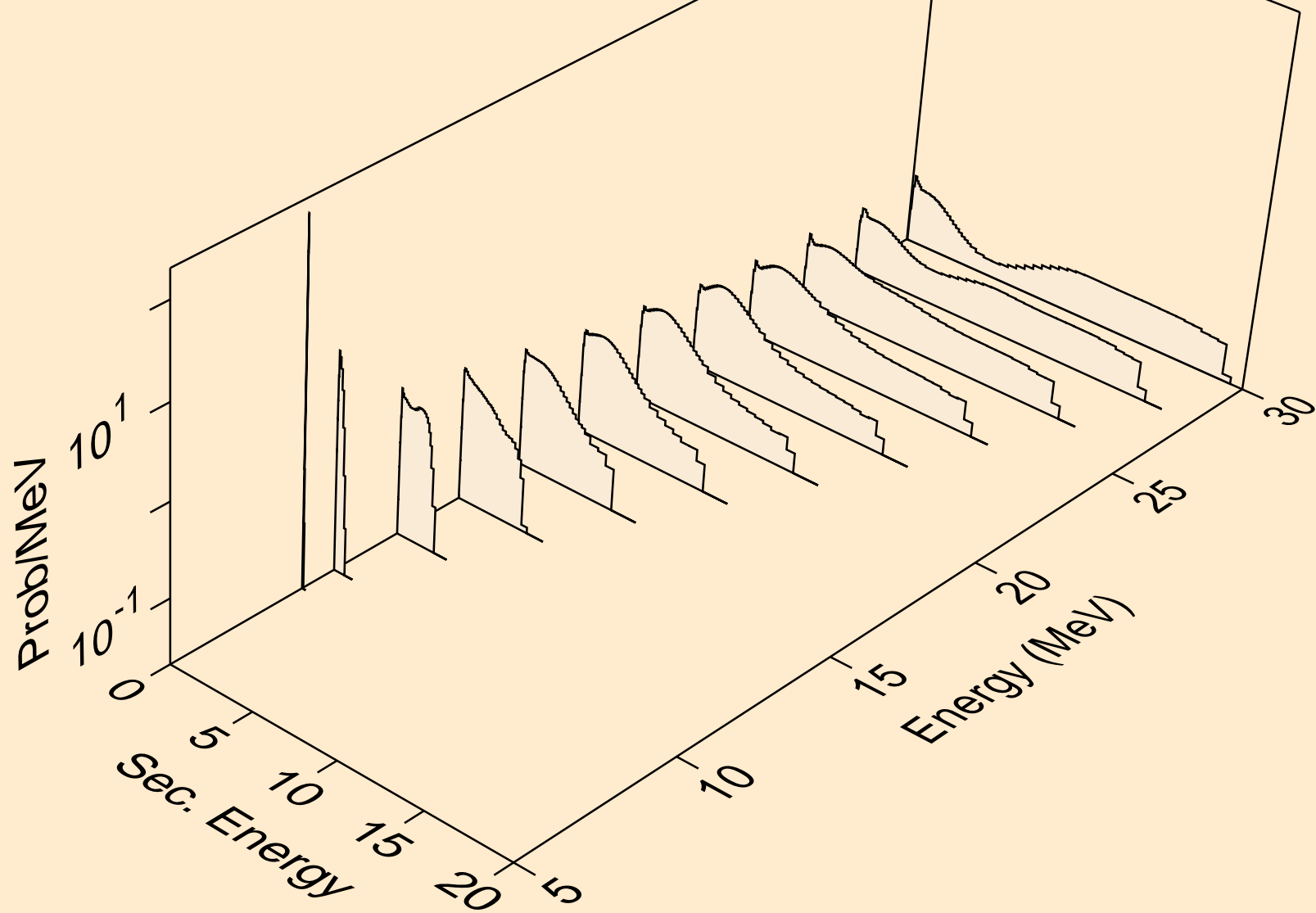




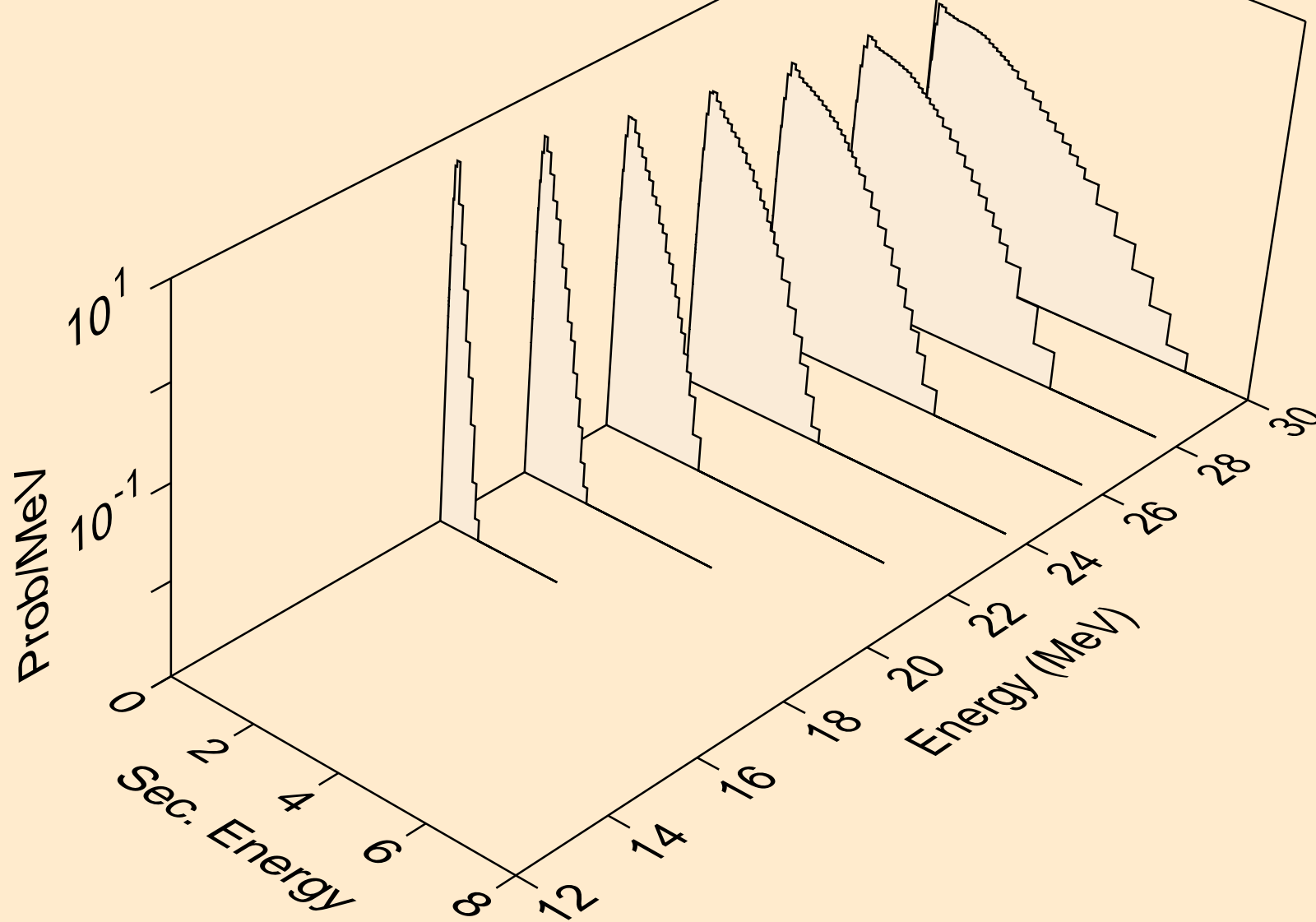
TI045 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,2n)a



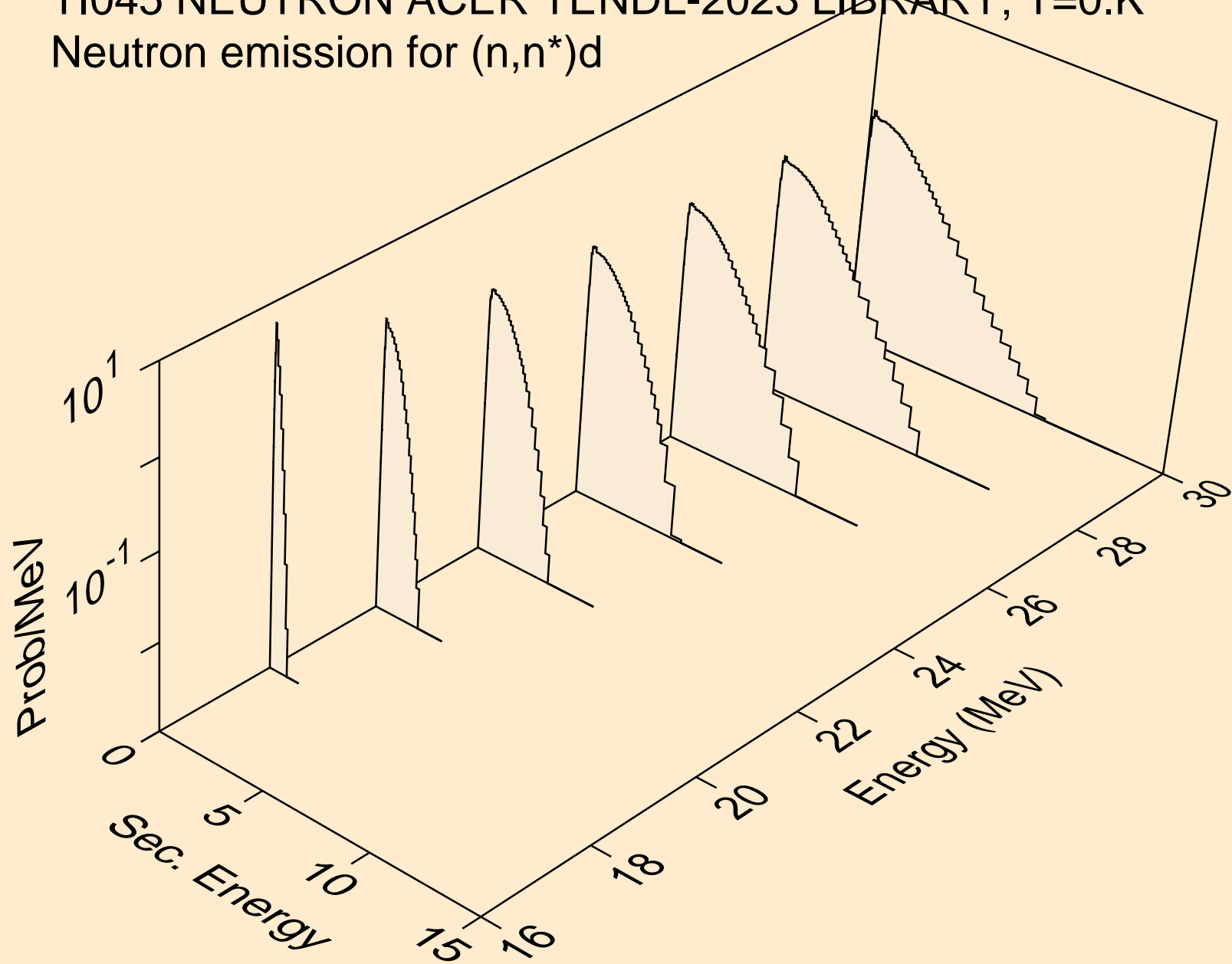
TI045 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,n\*)p



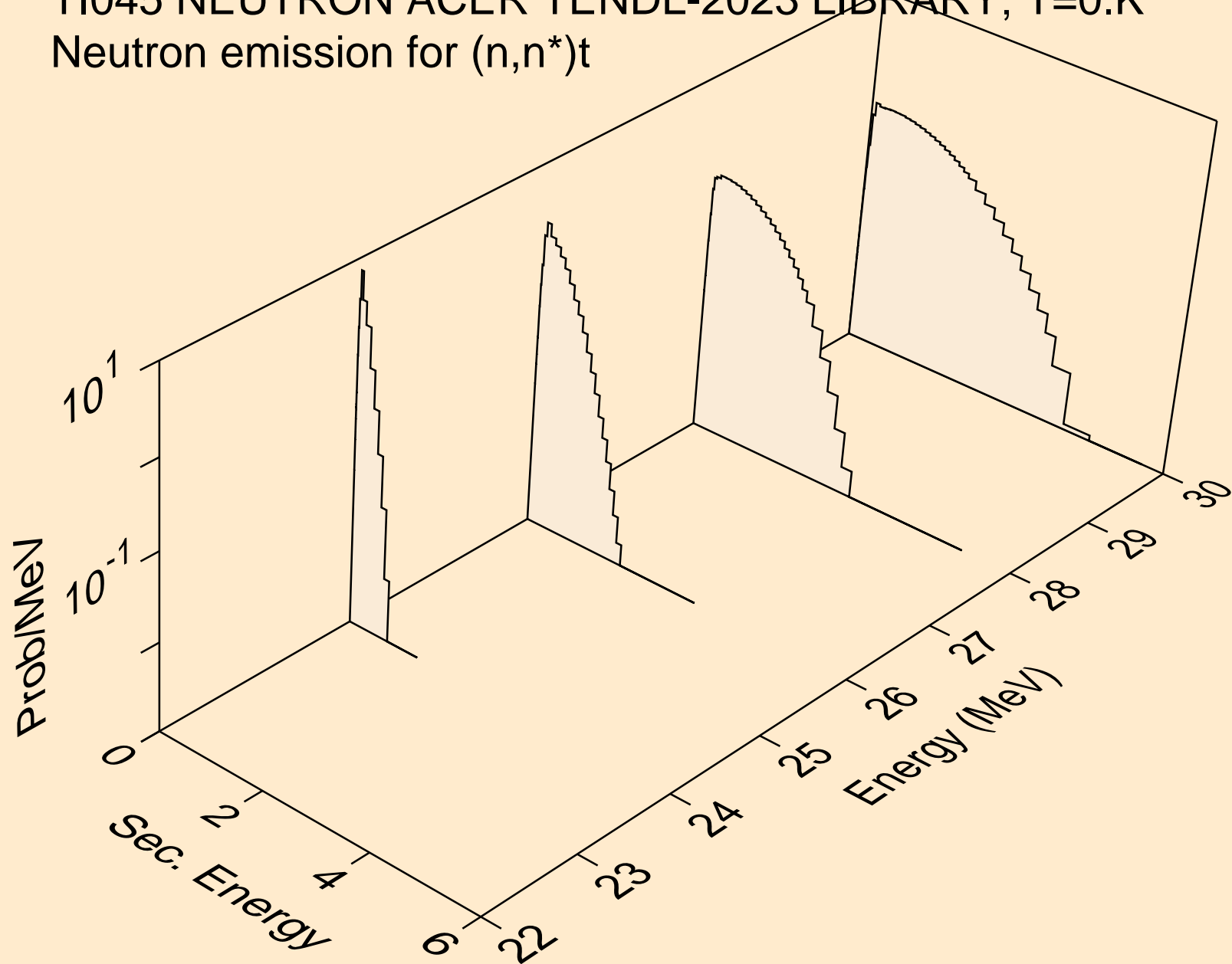
TI045 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,n\*)2a



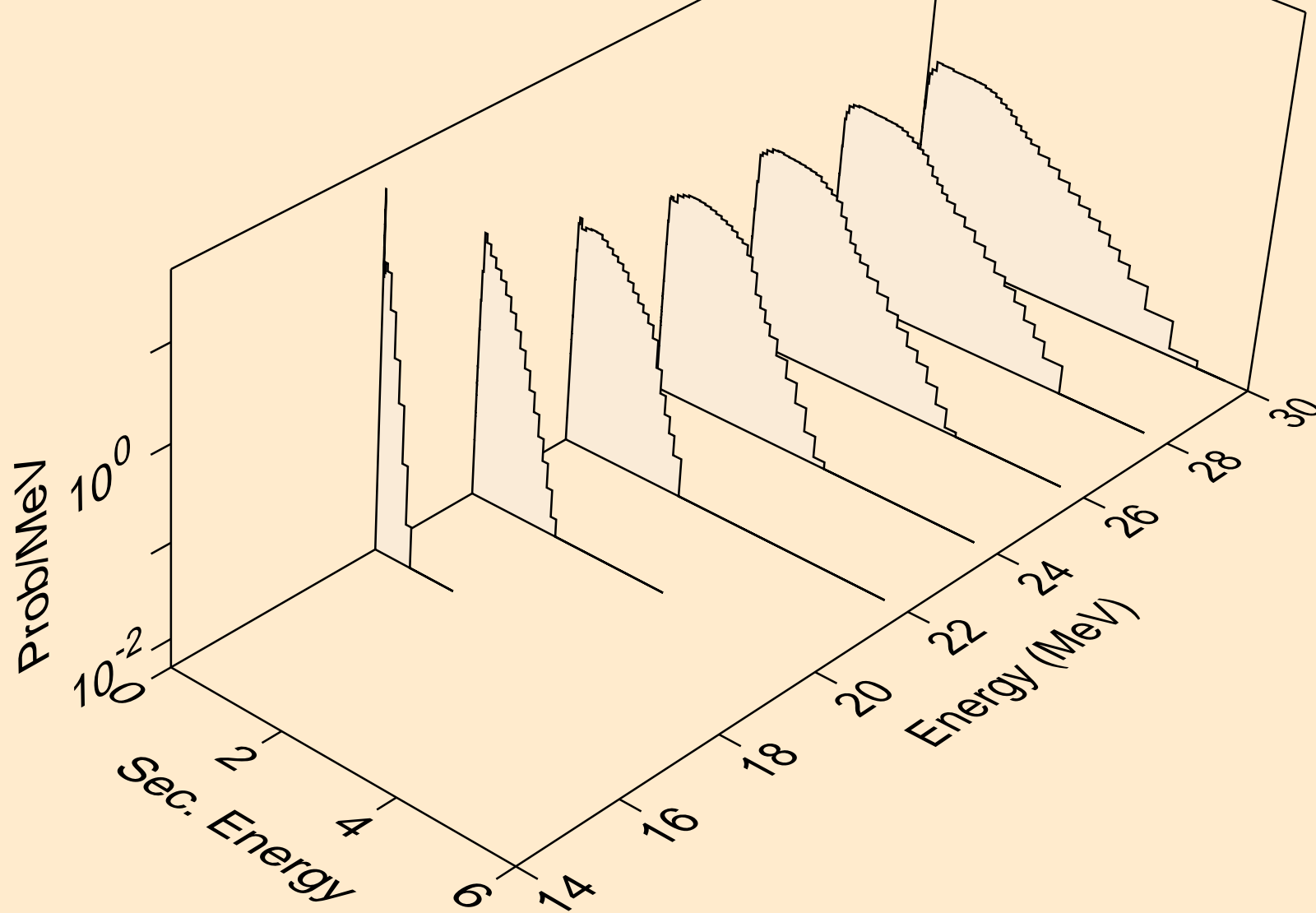
TI045 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,n\*)d



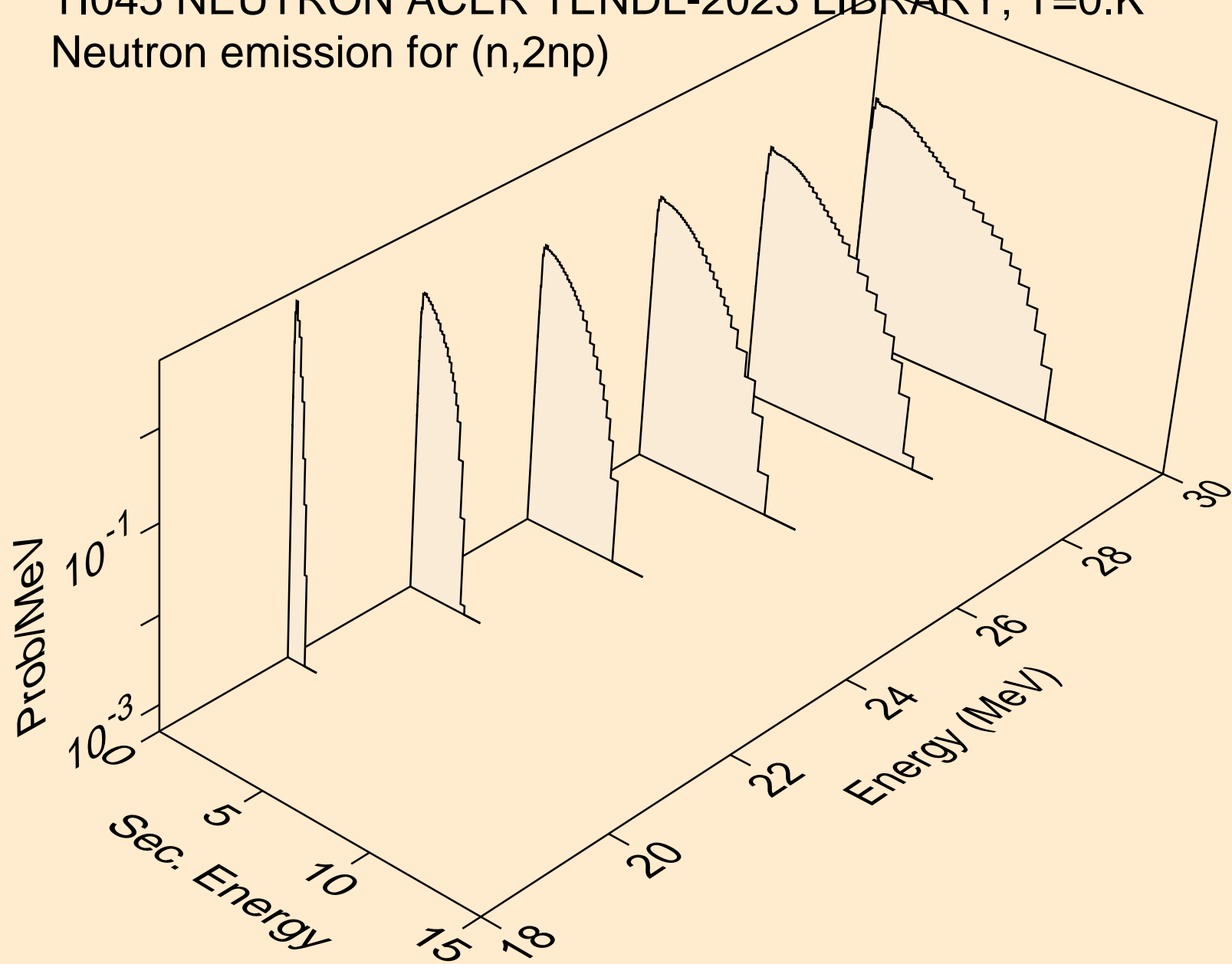
TI045 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,n\*)t



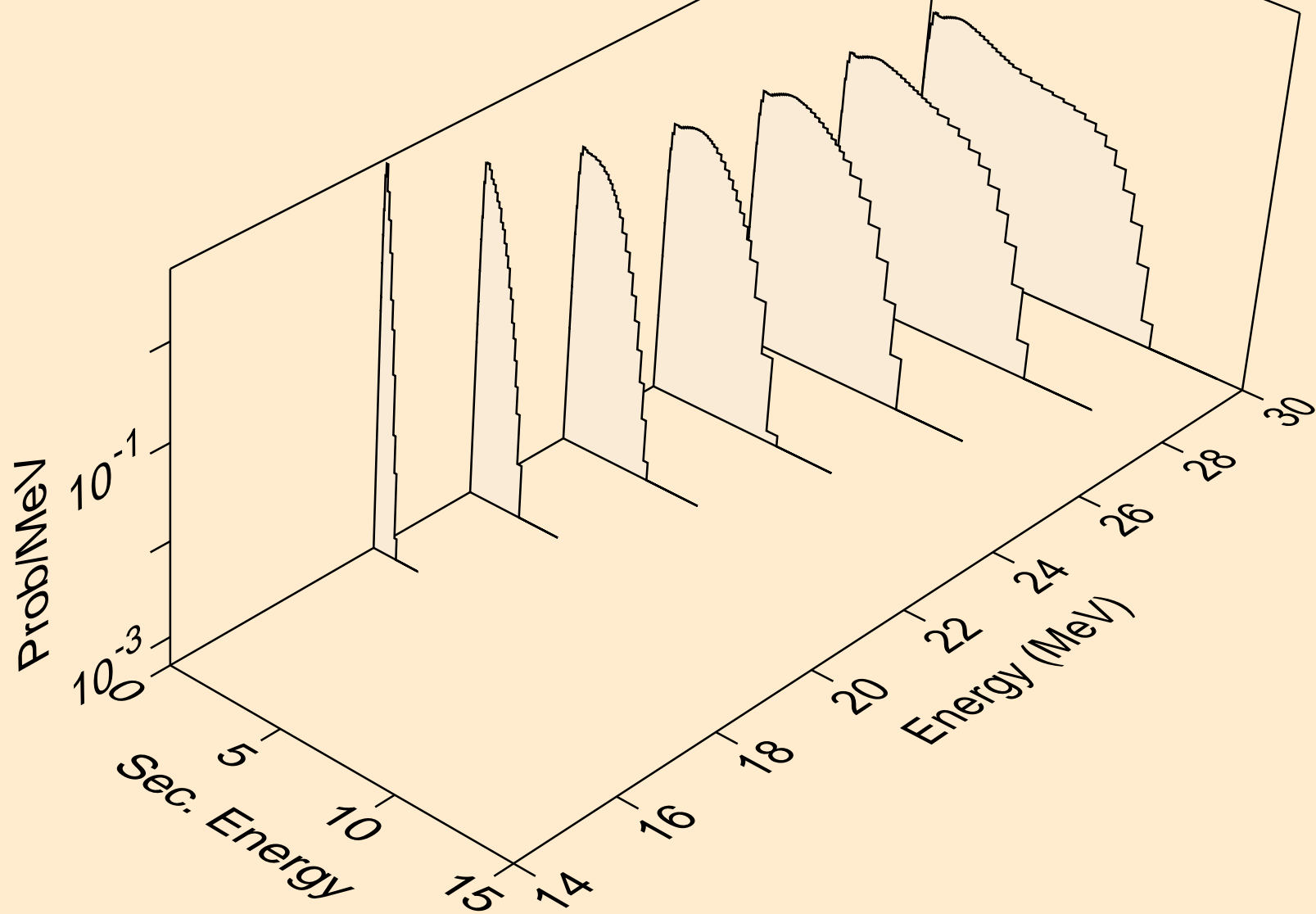
TI045 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,n\*)he3



TI045 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,2np)

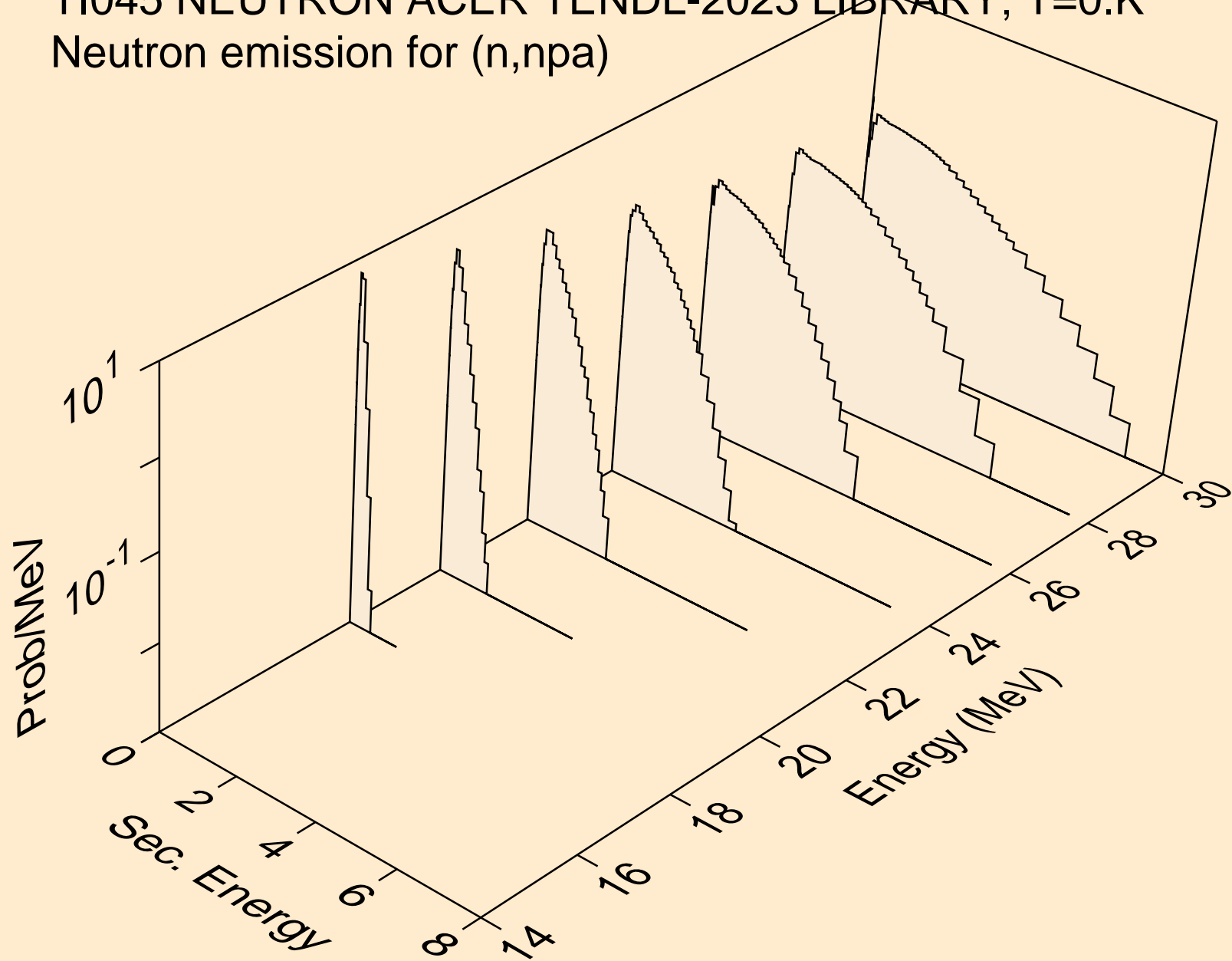


TI045 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,n2p)

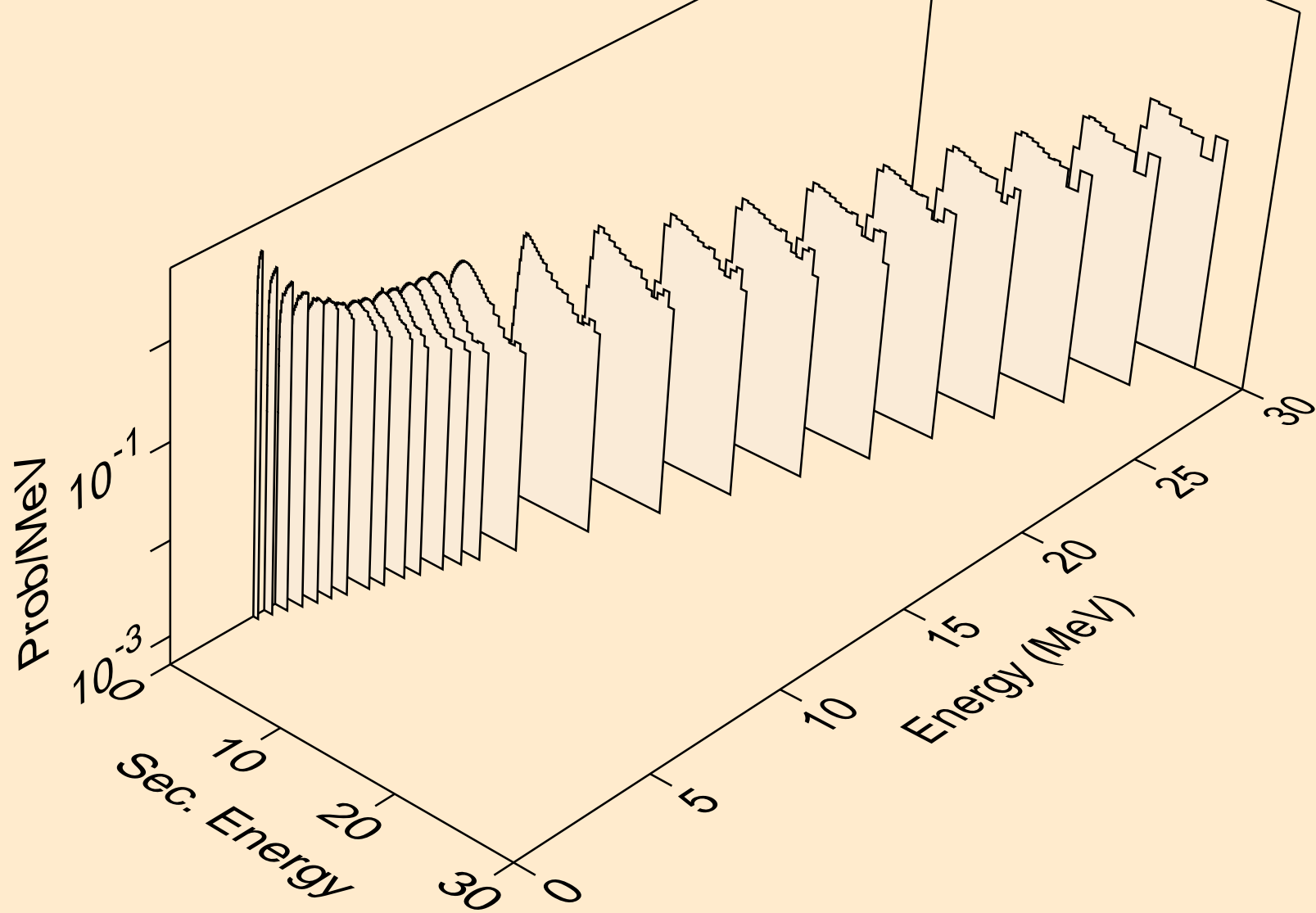




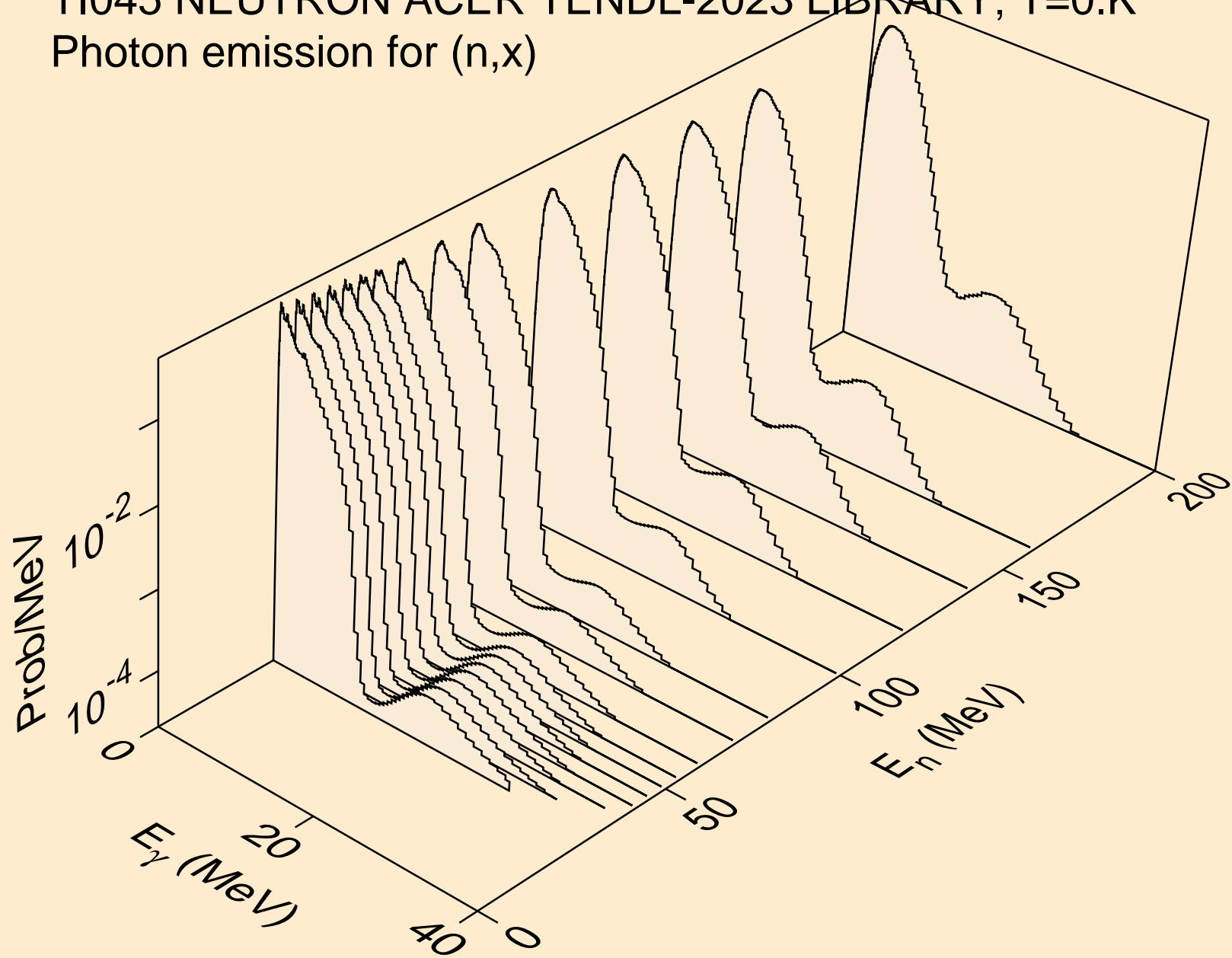
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Neutron emission for (n,npa)



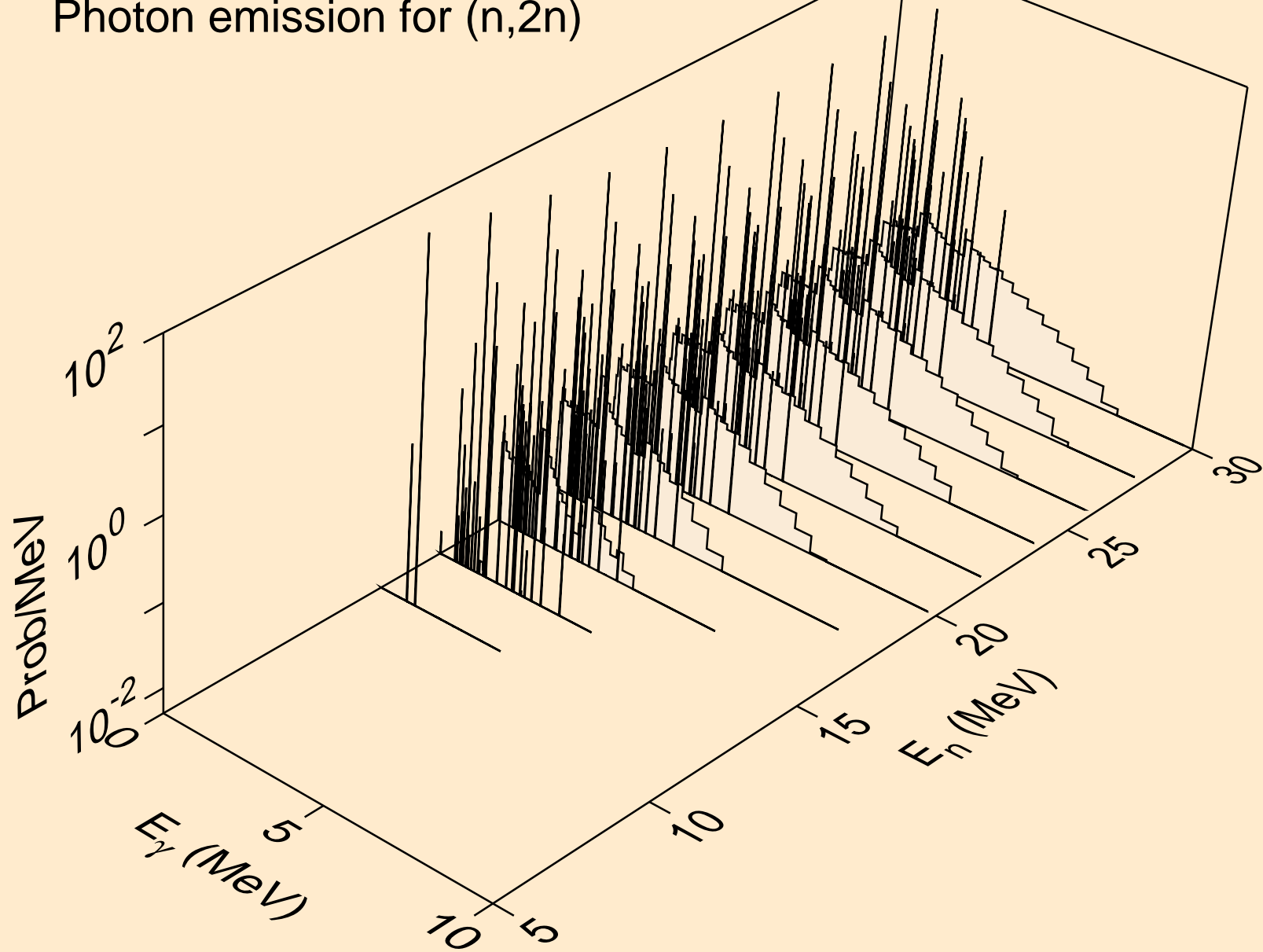
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Neutron emission for (n,n\*c)



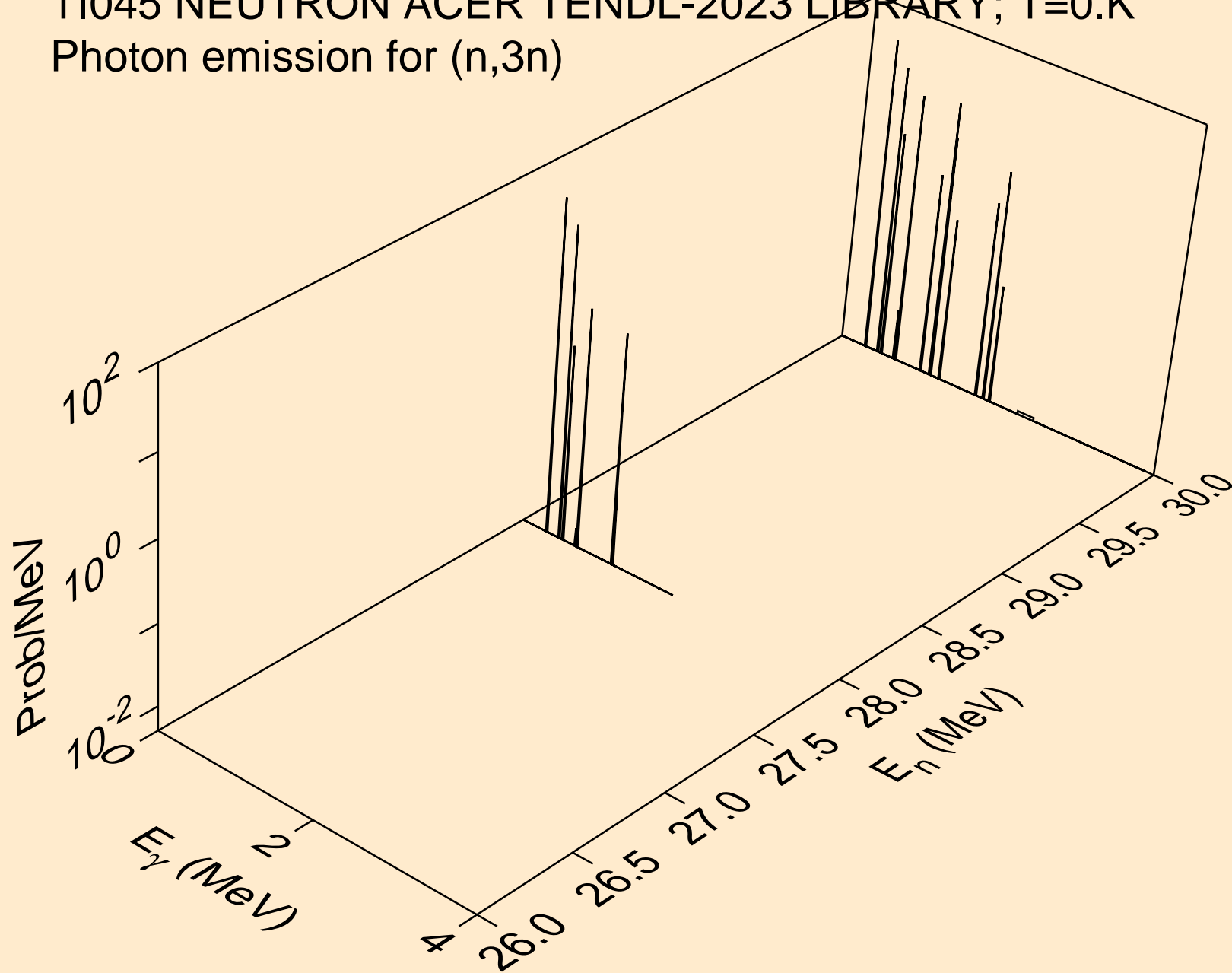
TI045 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,x)



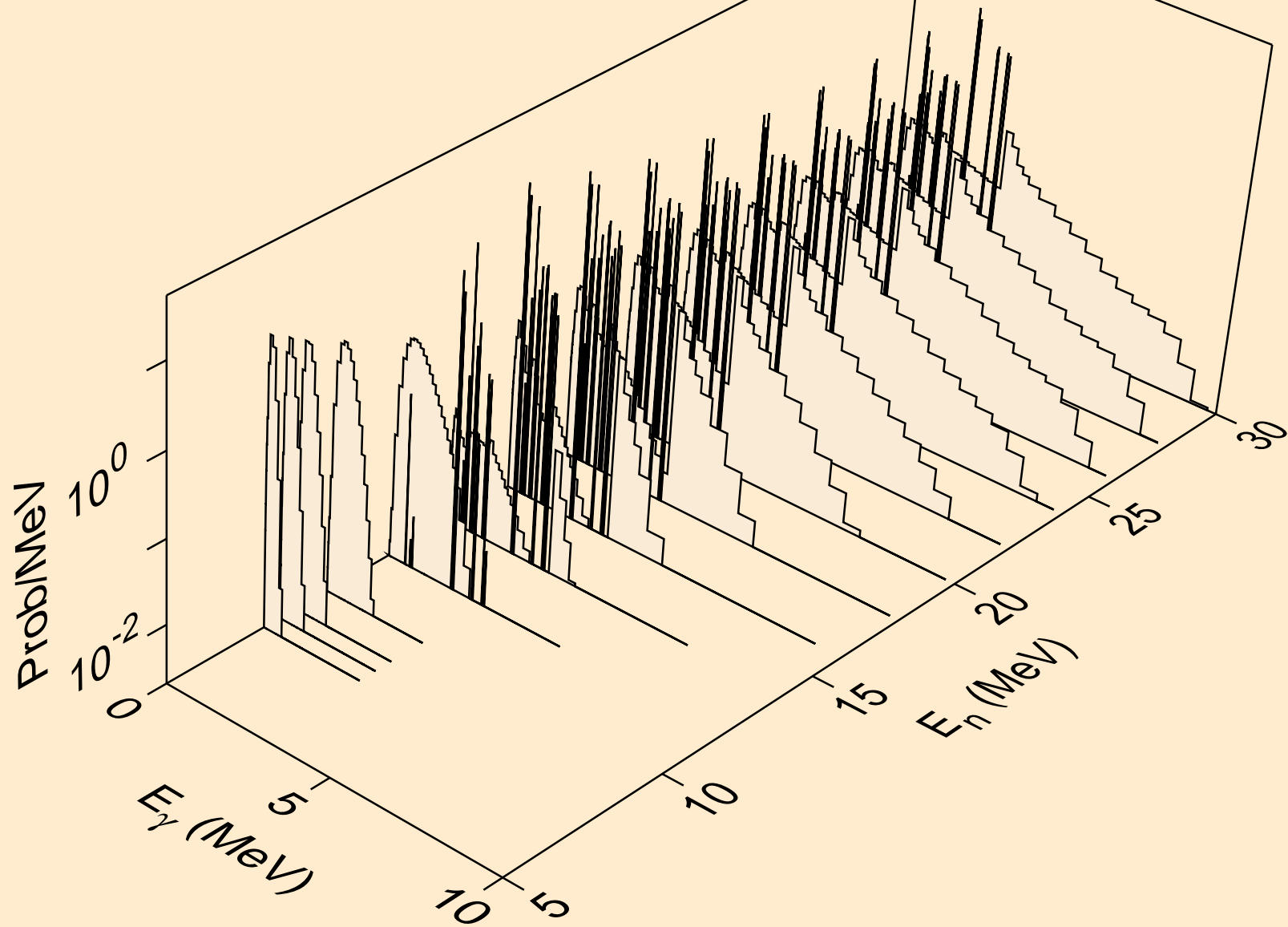
TI045 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2n)



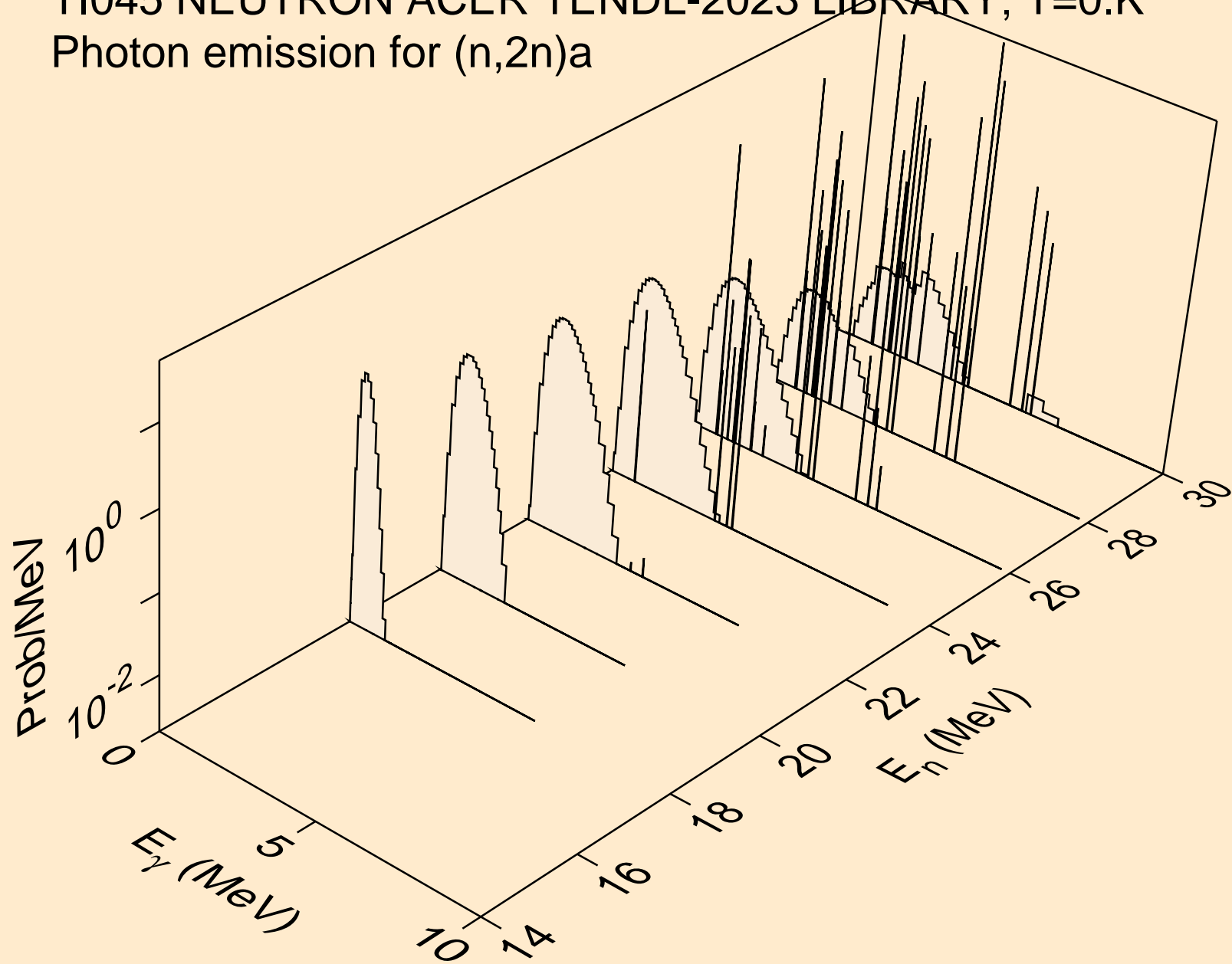
TI045 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,3n)



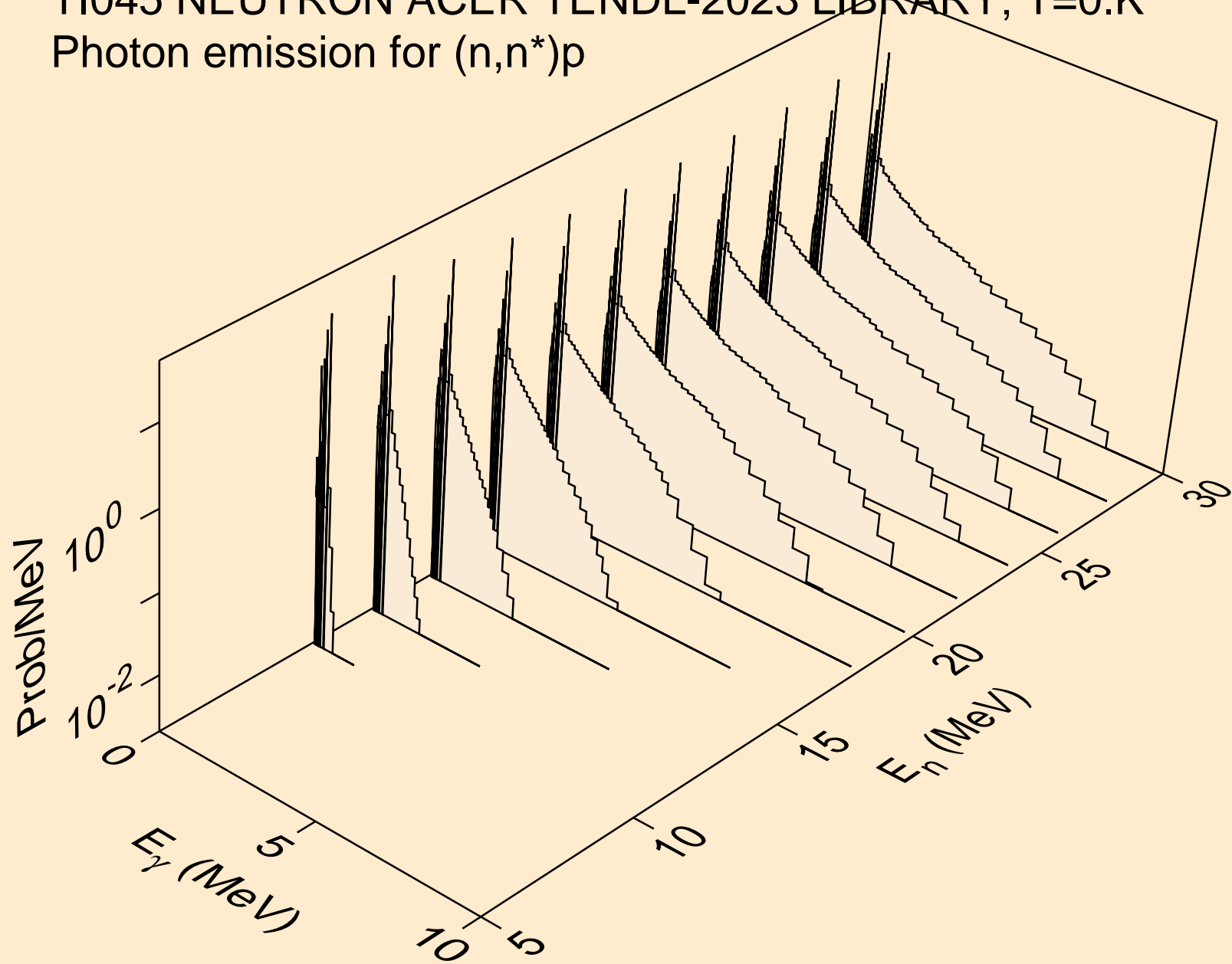
TI045 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)a



TI045 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2n)a

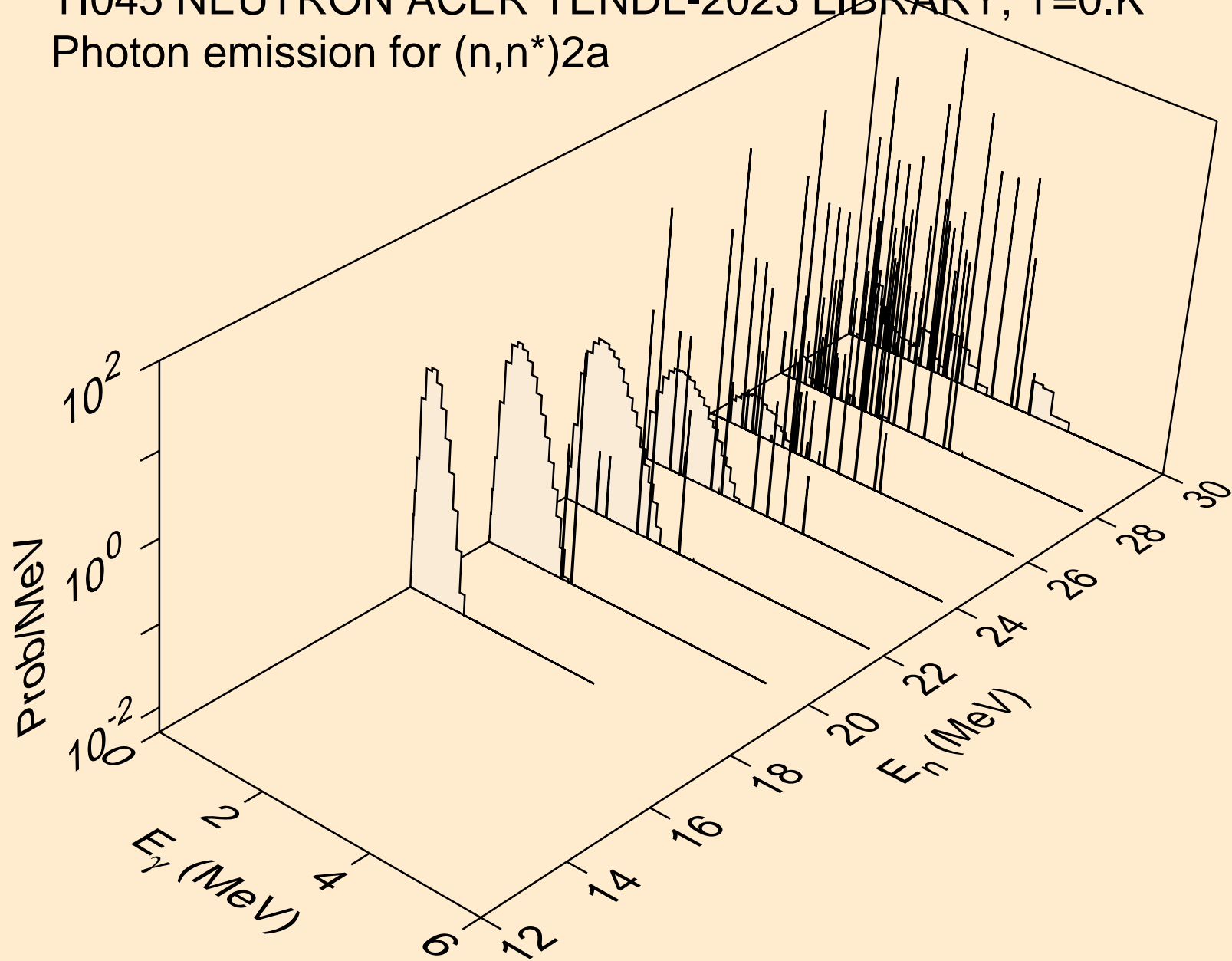


TI045 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)p

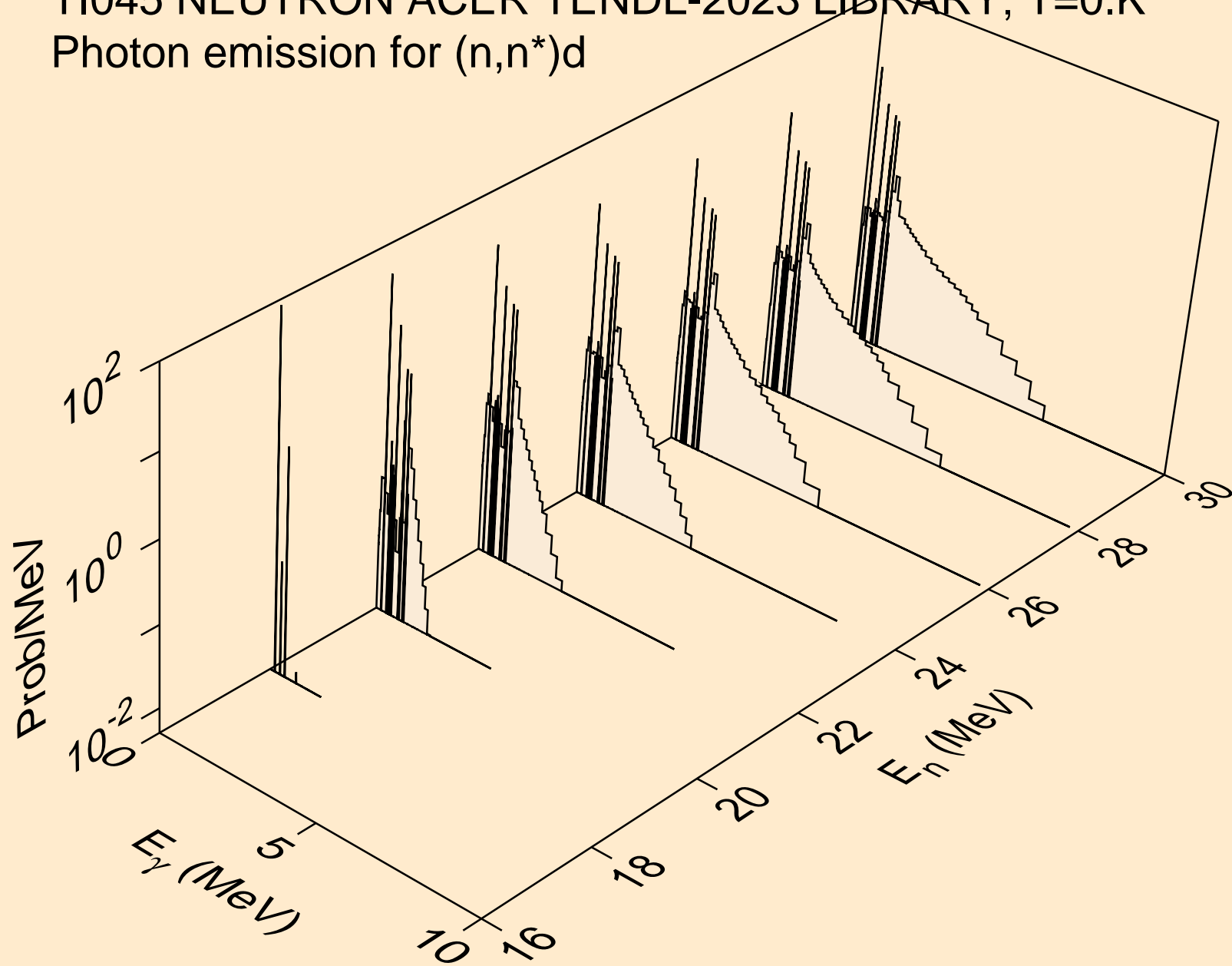




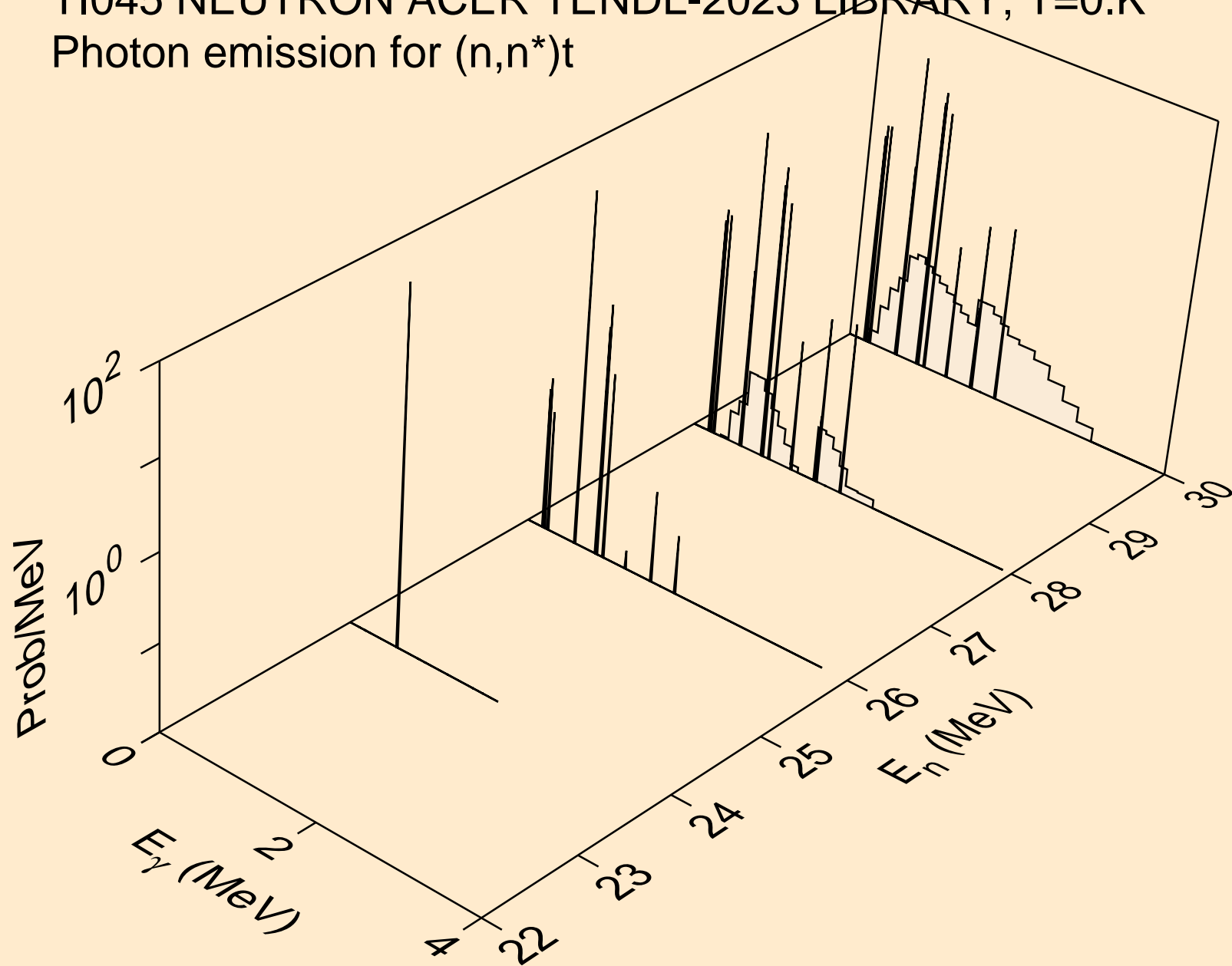
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Photon emission for (n,n\*)2a



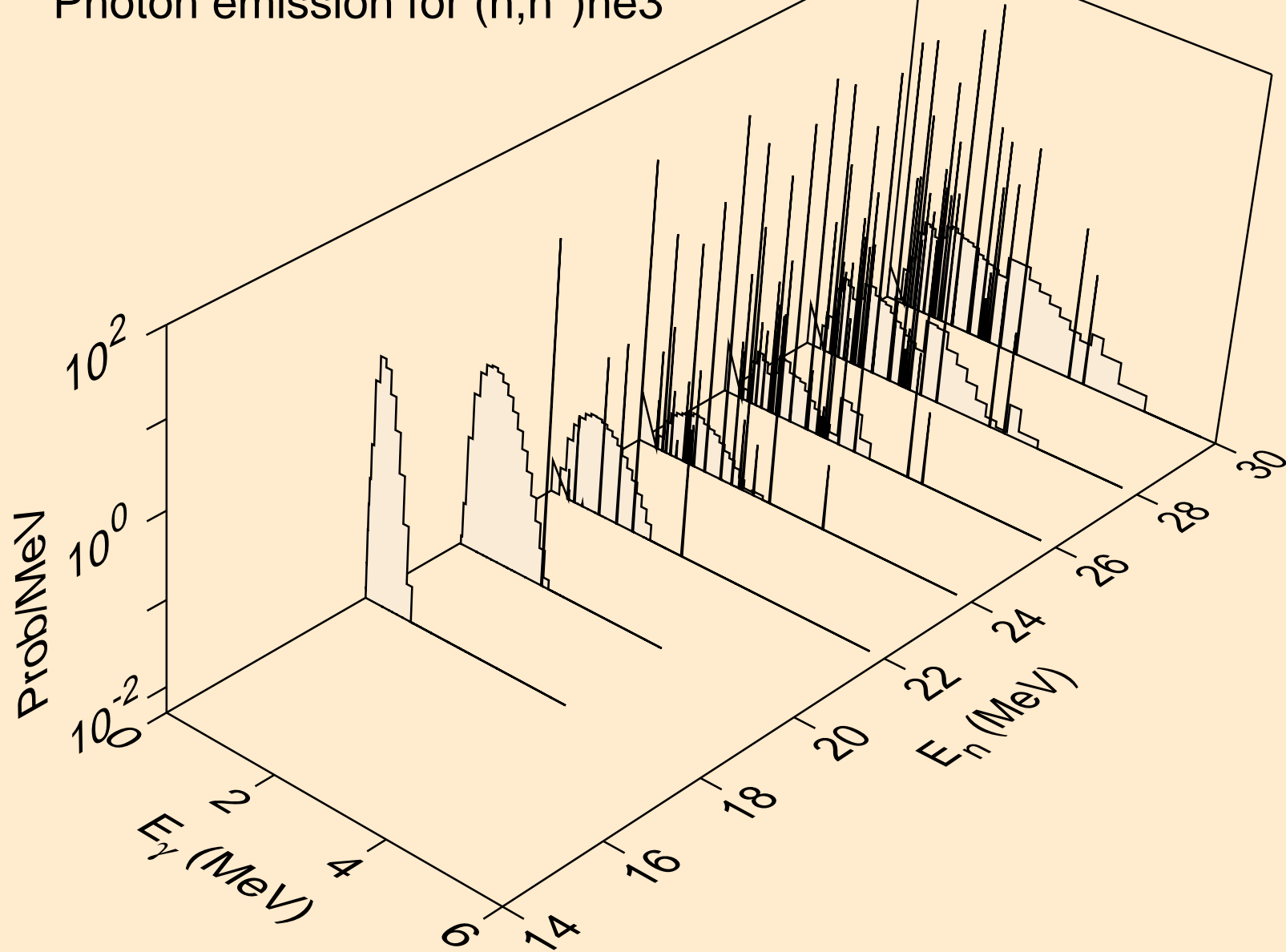
TI045 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)d



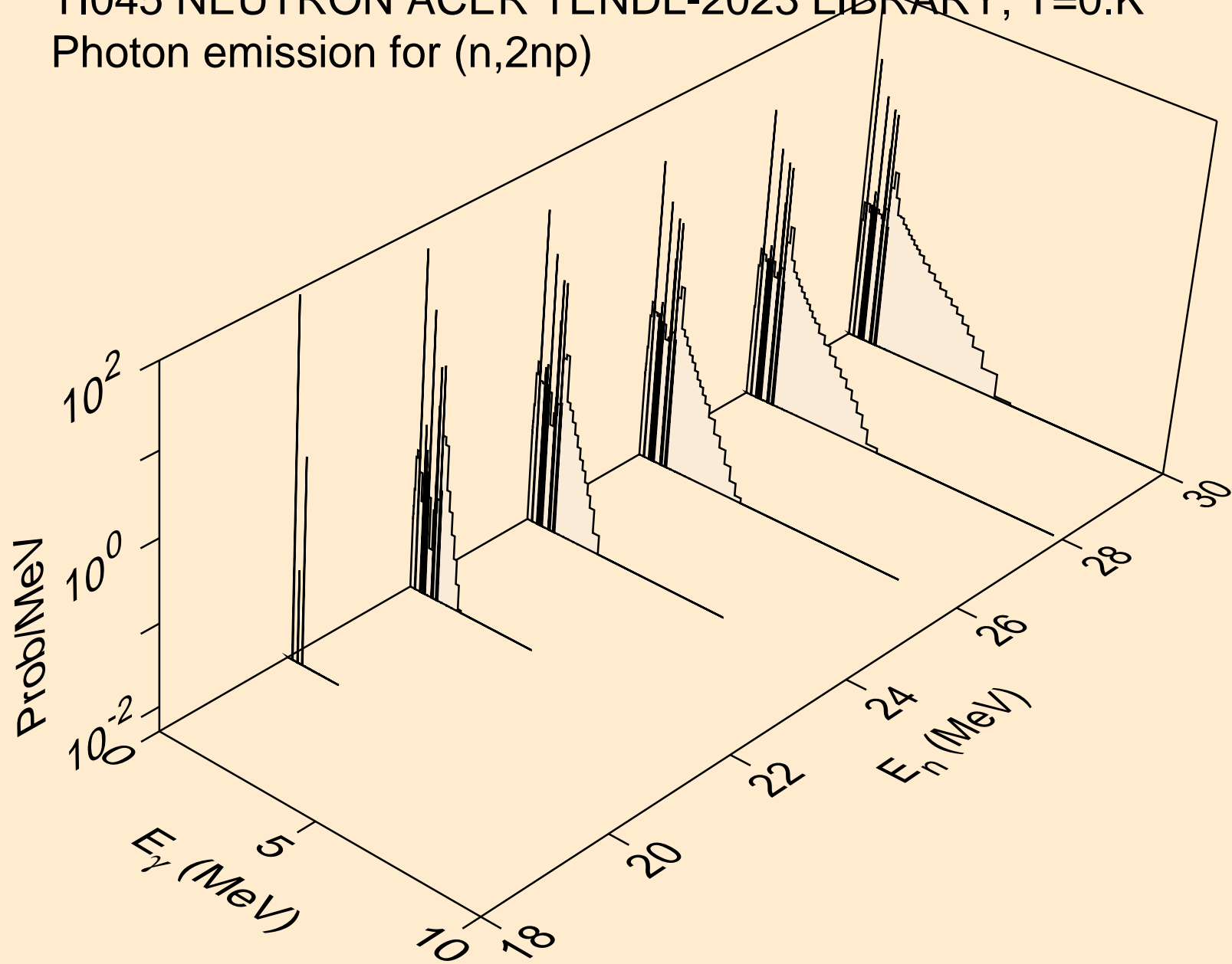
TI045 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)t



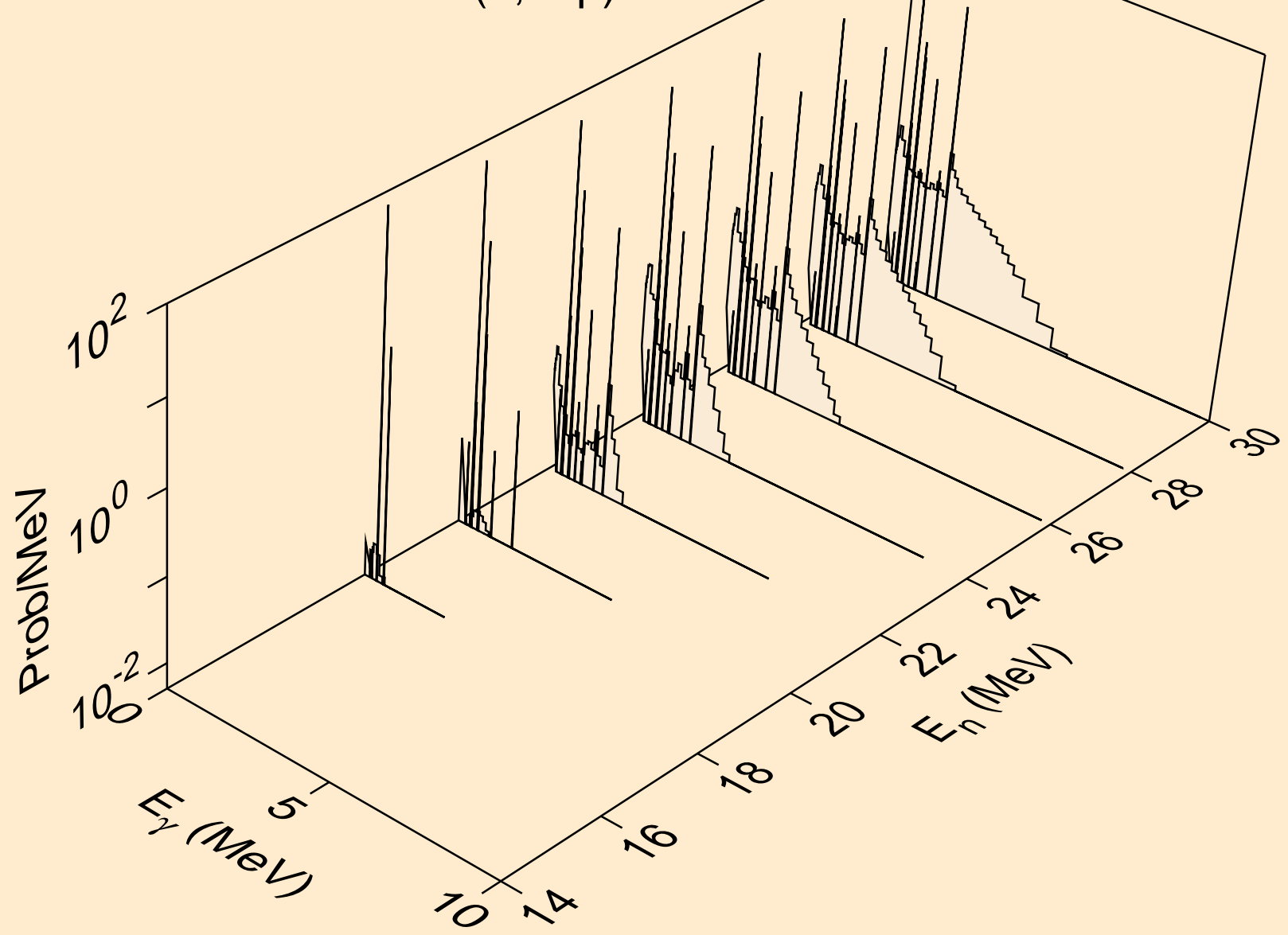
TI045 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)he3



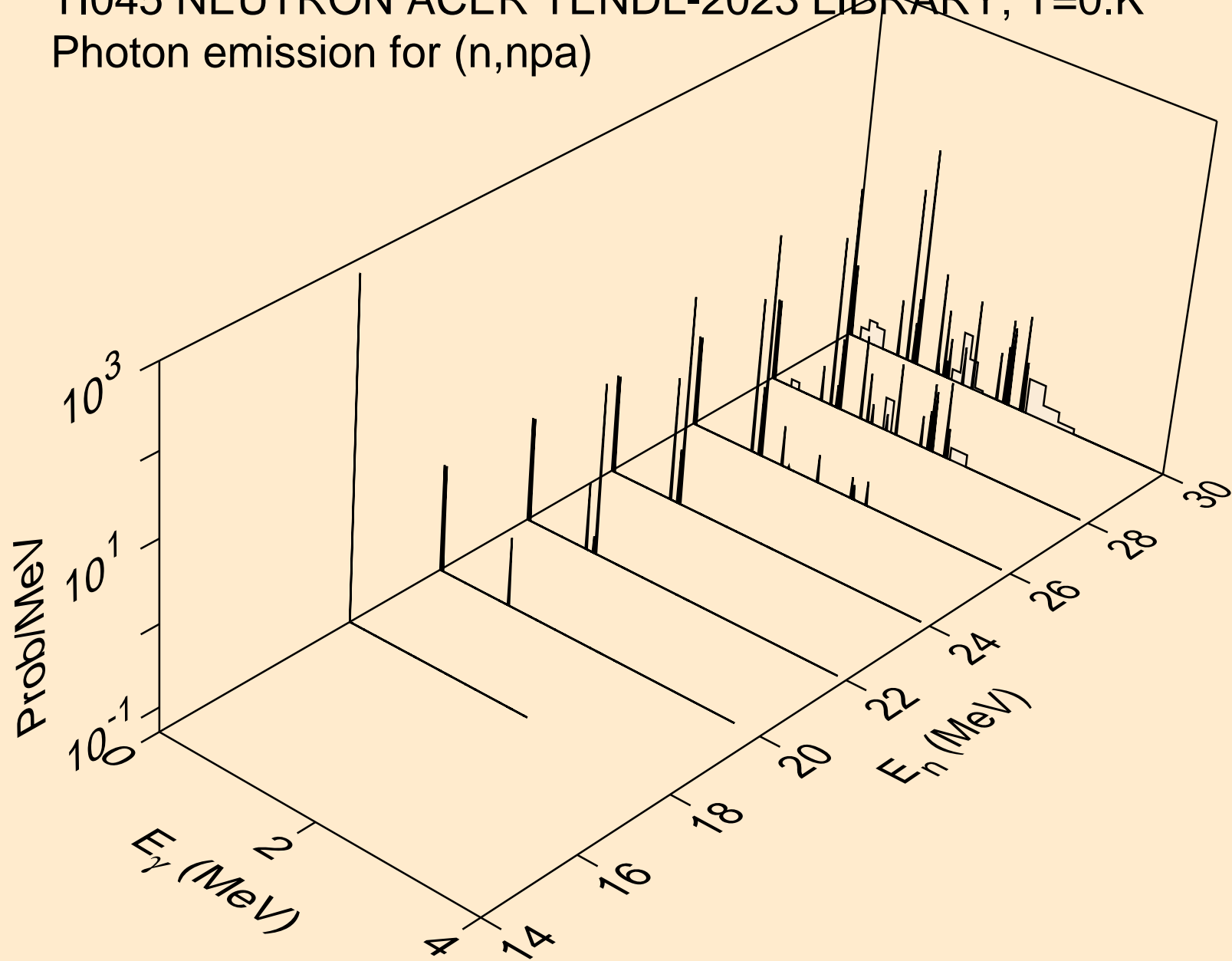
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Photon emission for (n,2np)



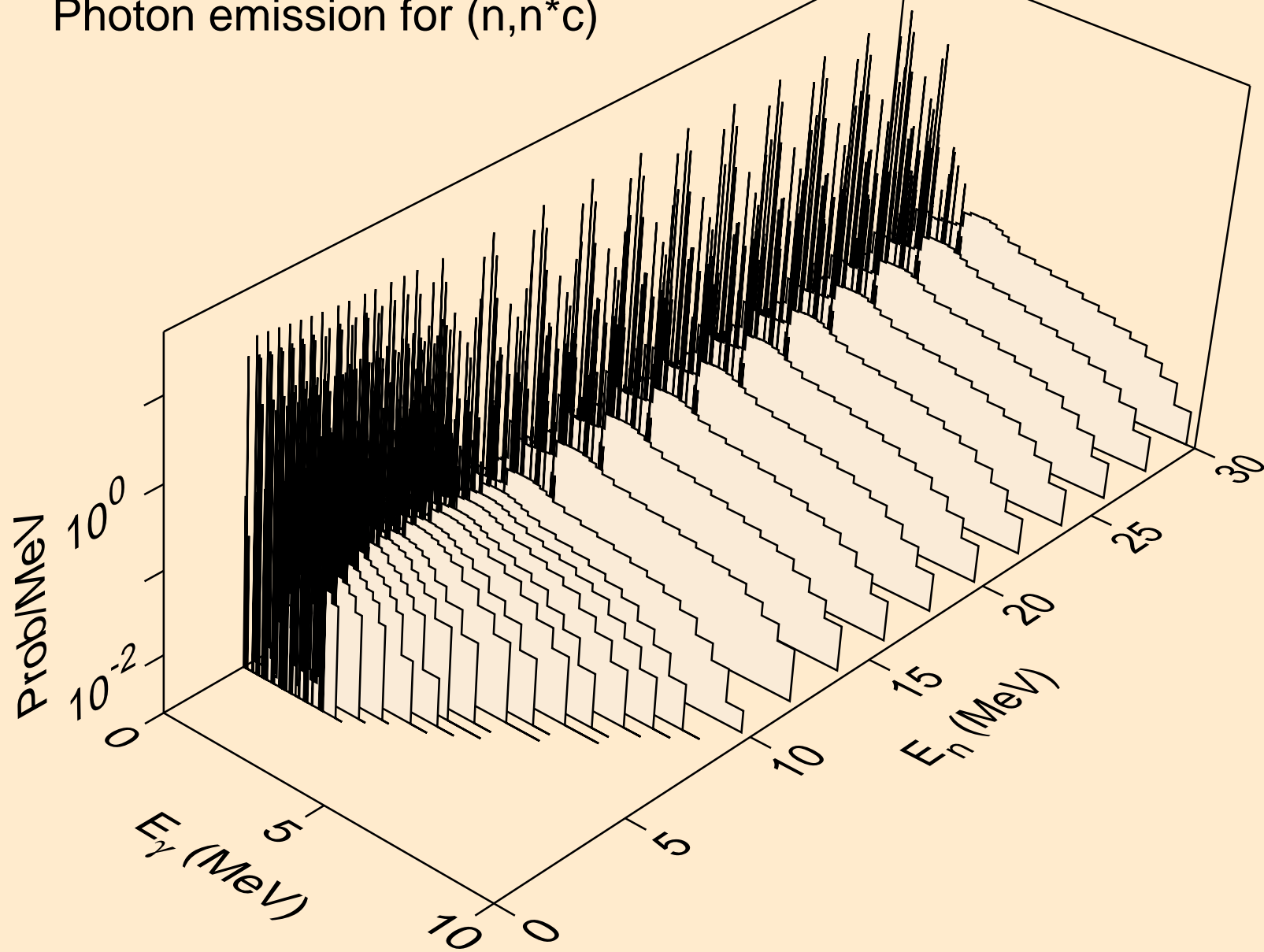
TI045 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n2p)



TI045 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,npa)

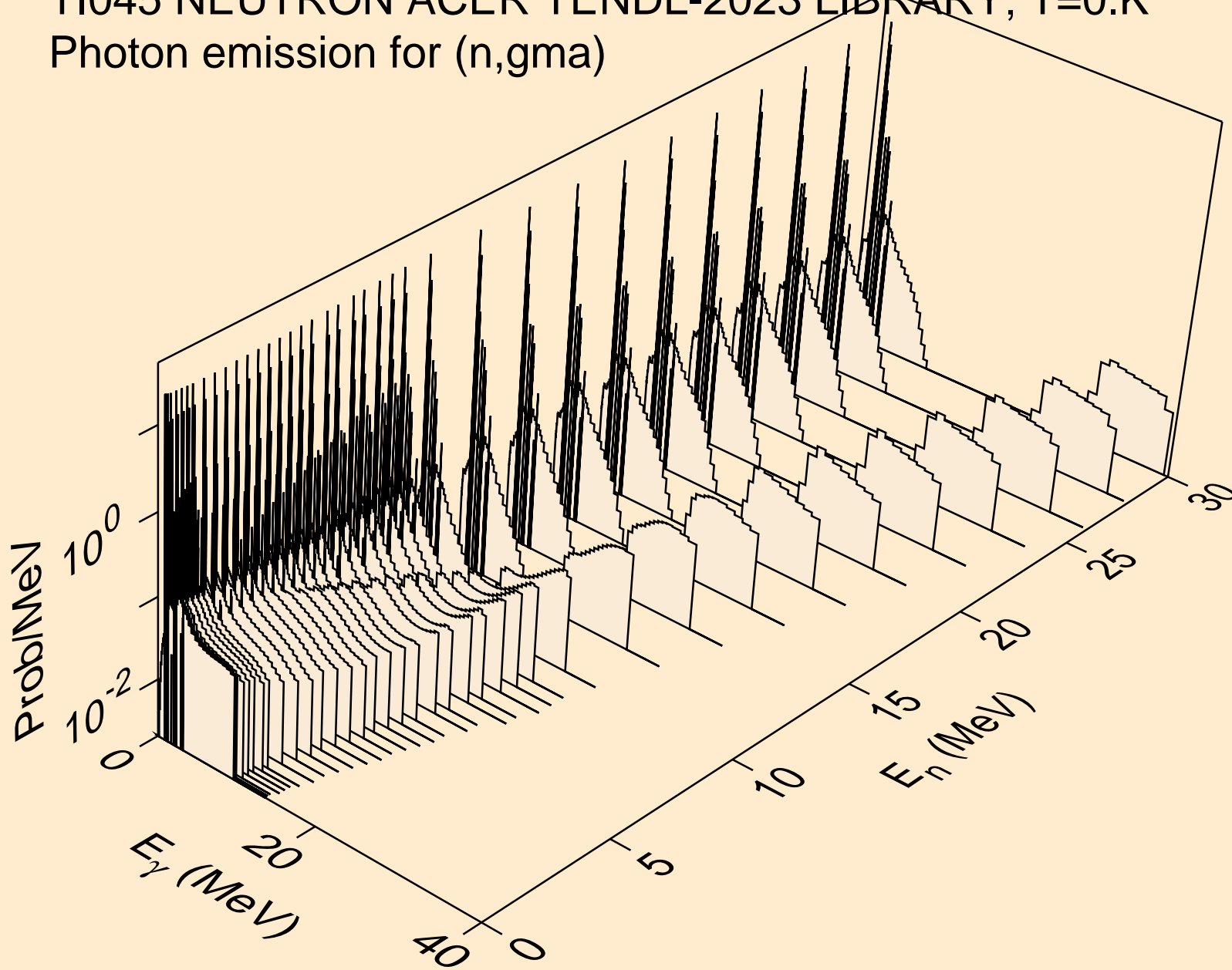


TI045 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*c)

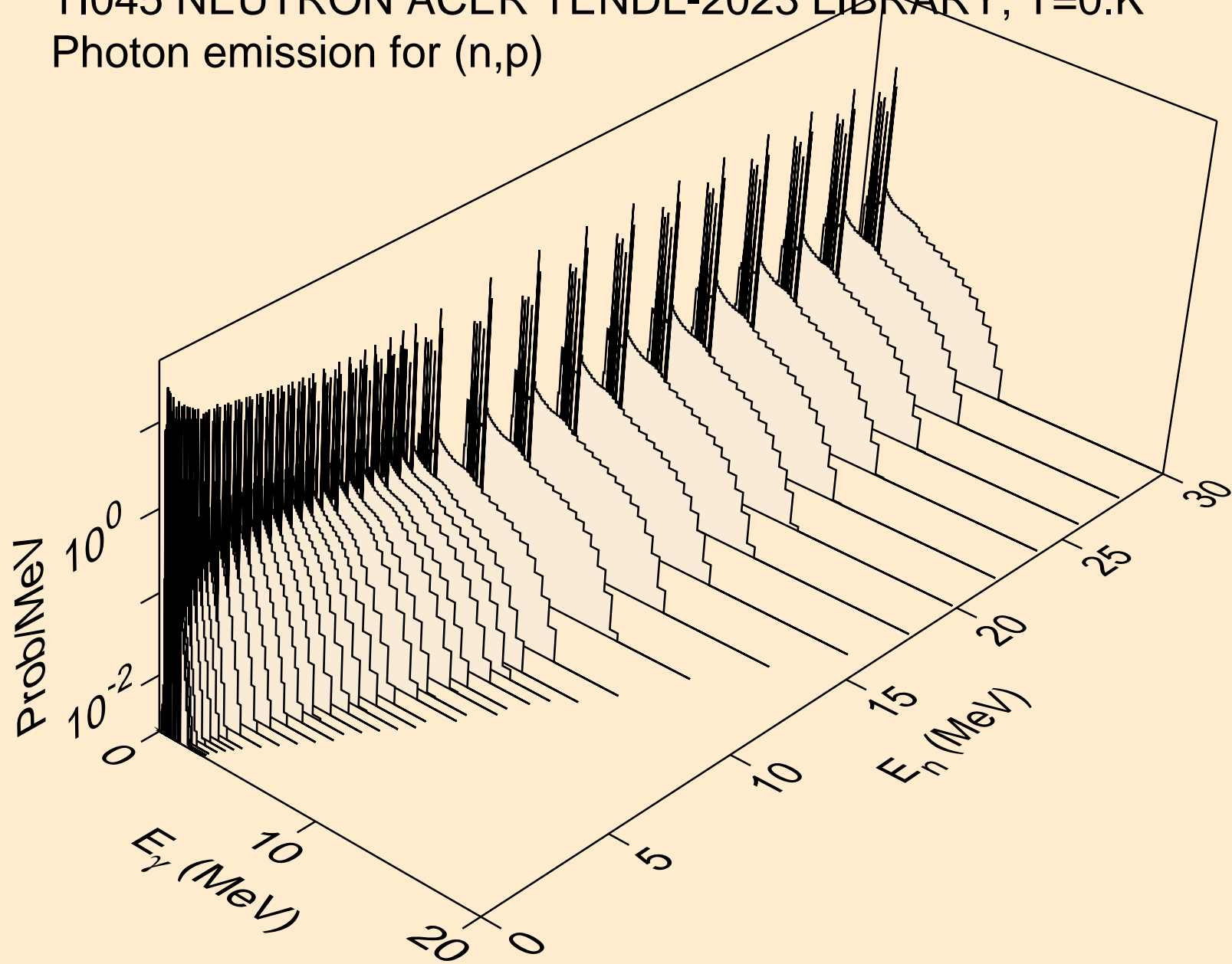




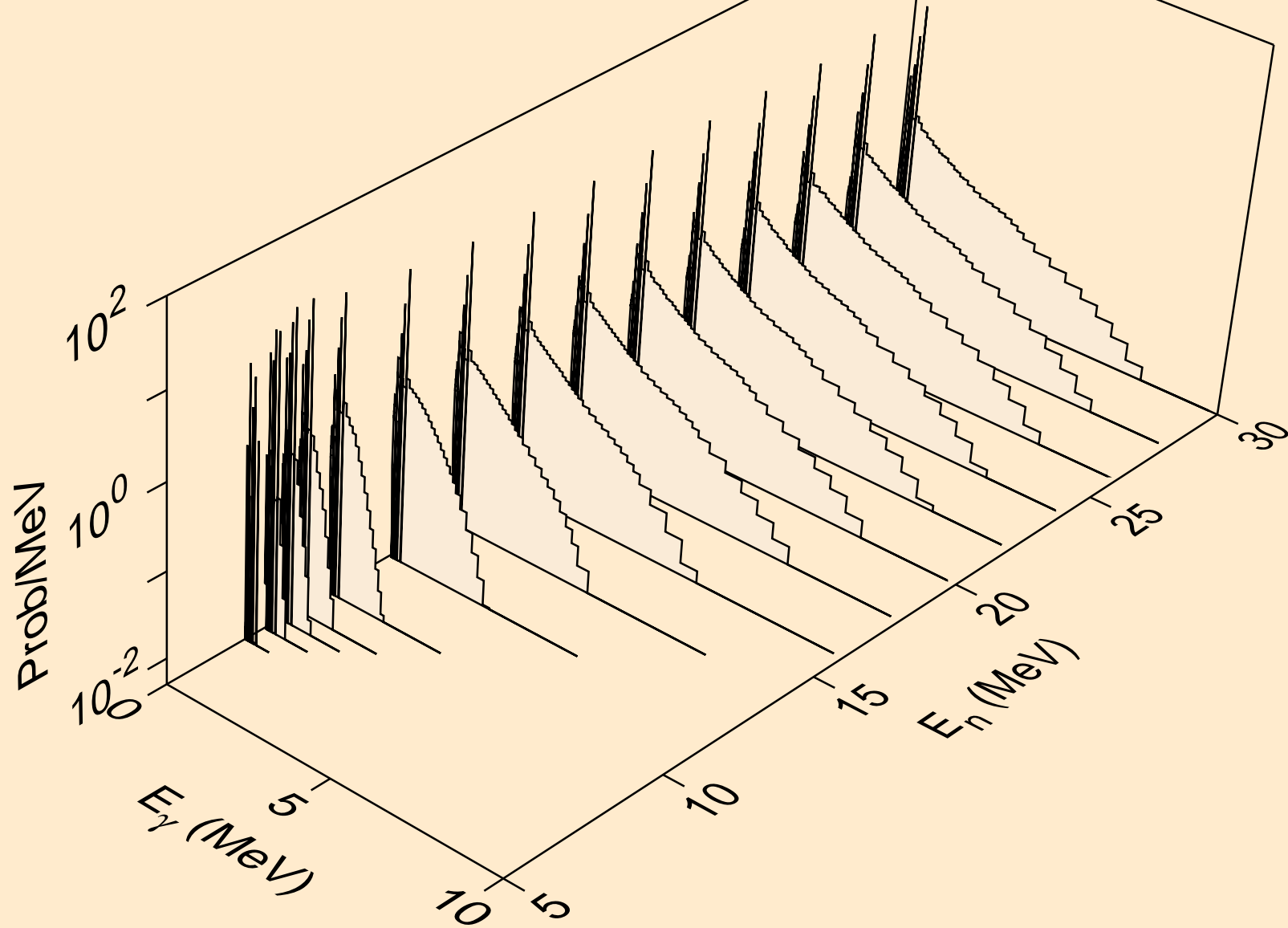
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Photon emission for (n,gma)



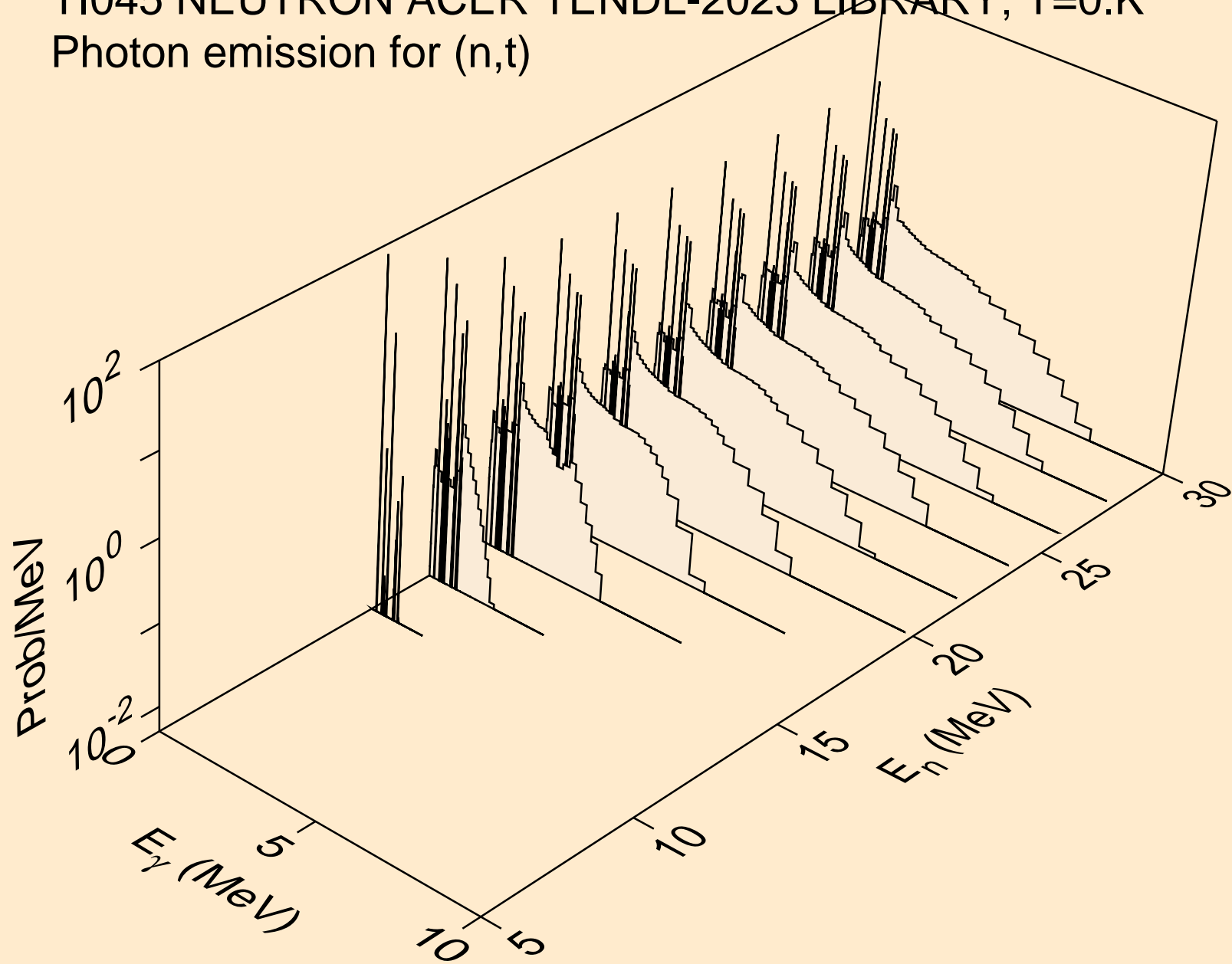
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Photon emission for (n,p)



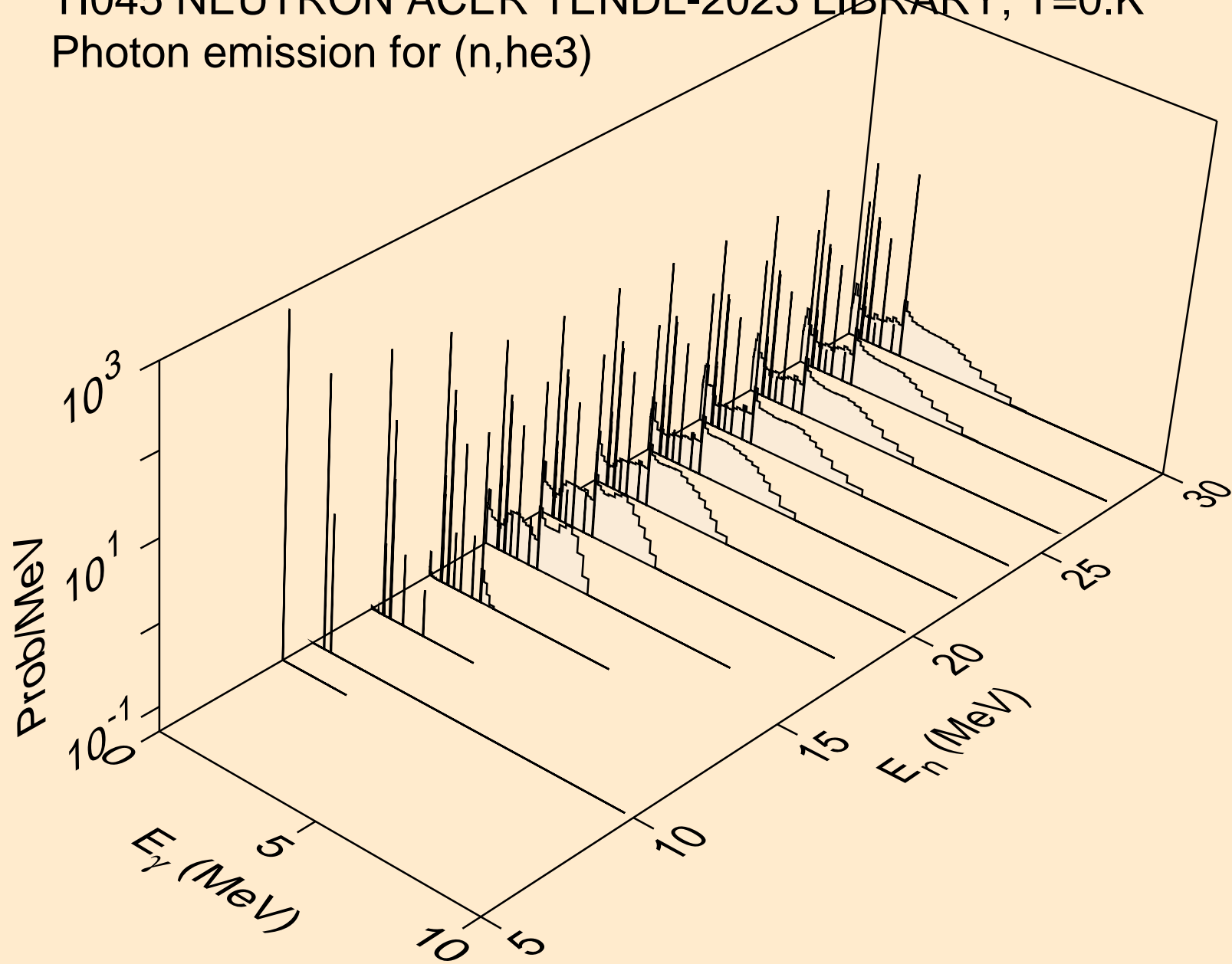
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Photon emission for (n,d)



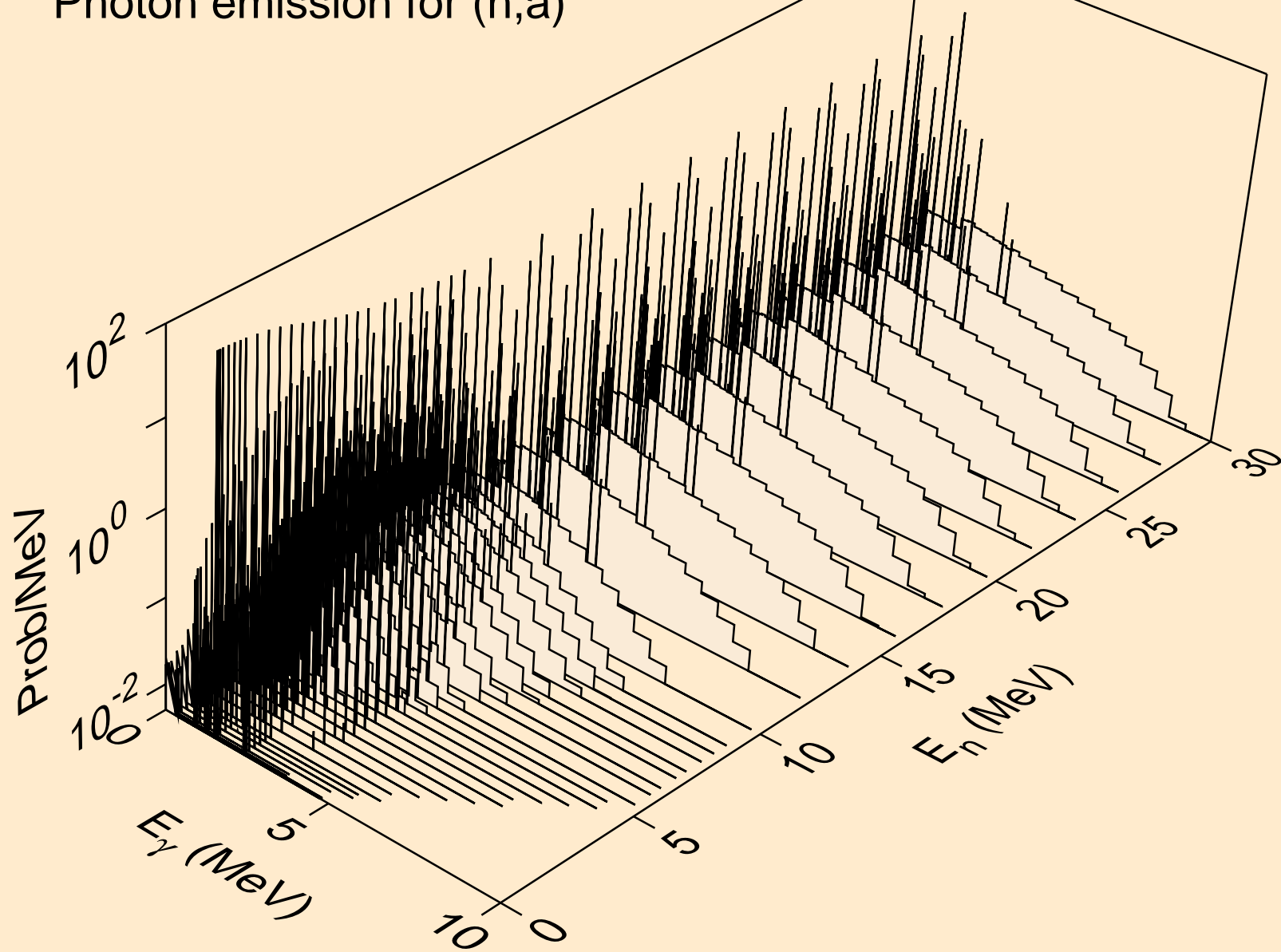
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Photon emission for (n,t)



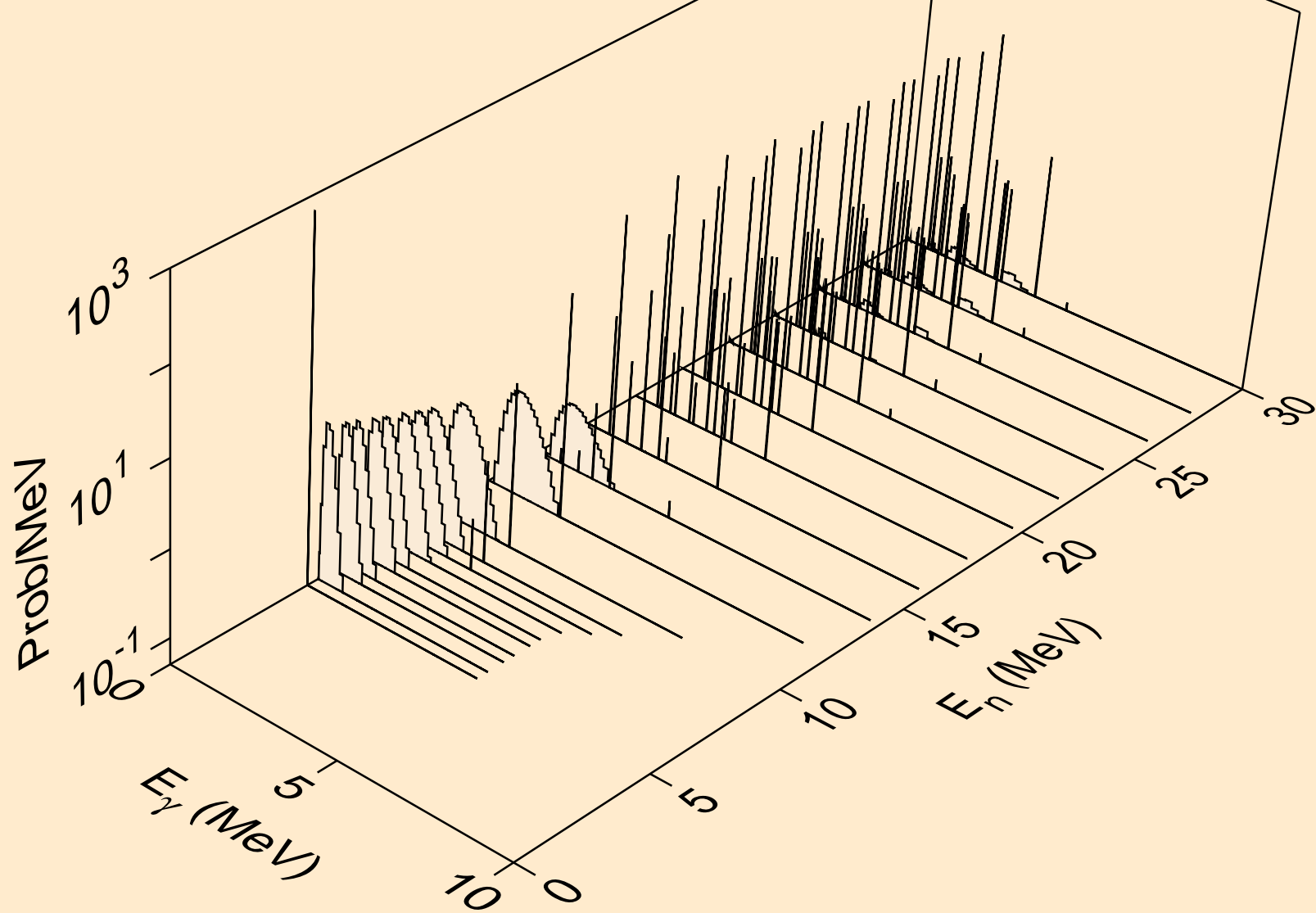
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Photon emission for (n,he3)



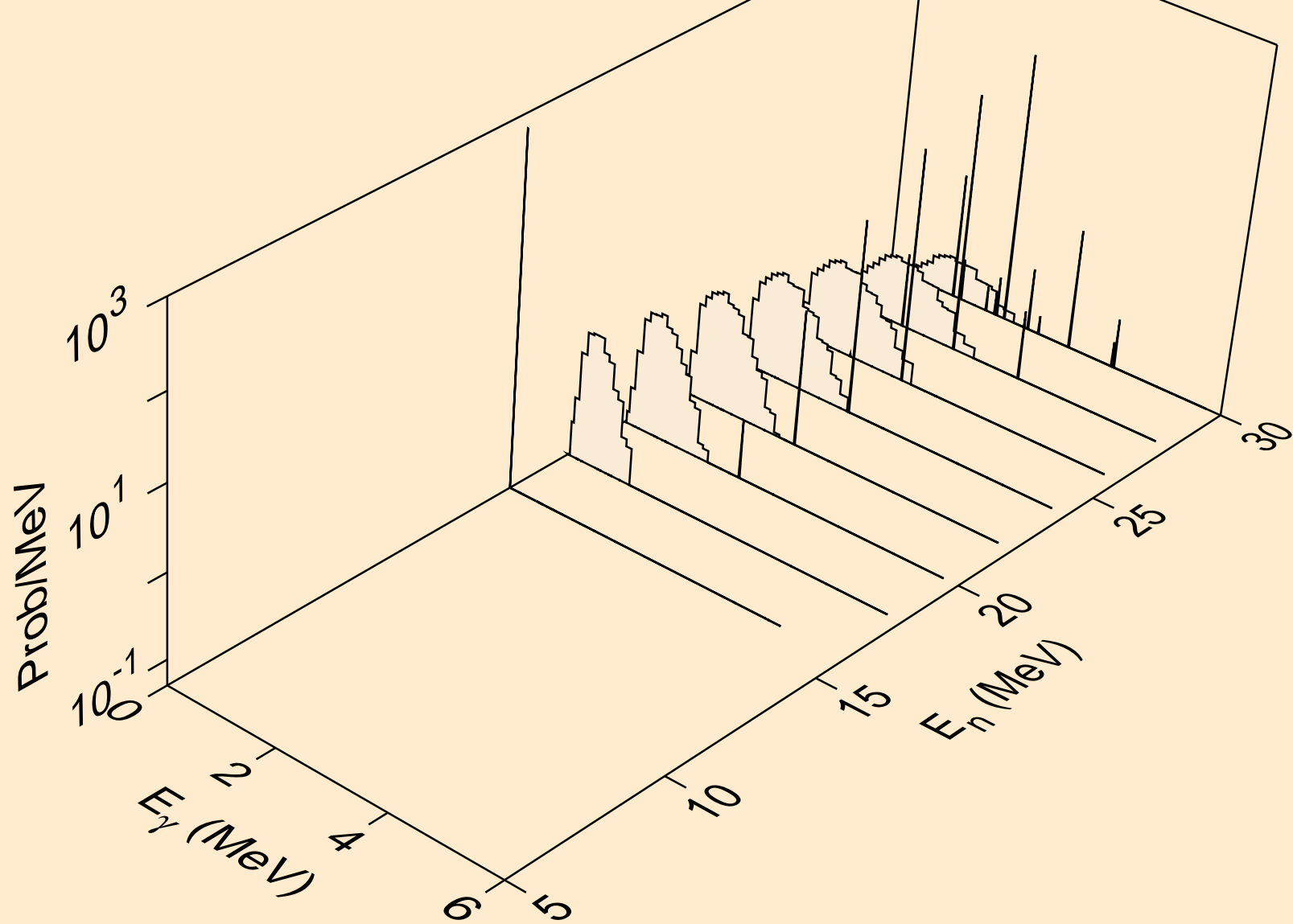
TI045 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,a)



TI045 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2a)

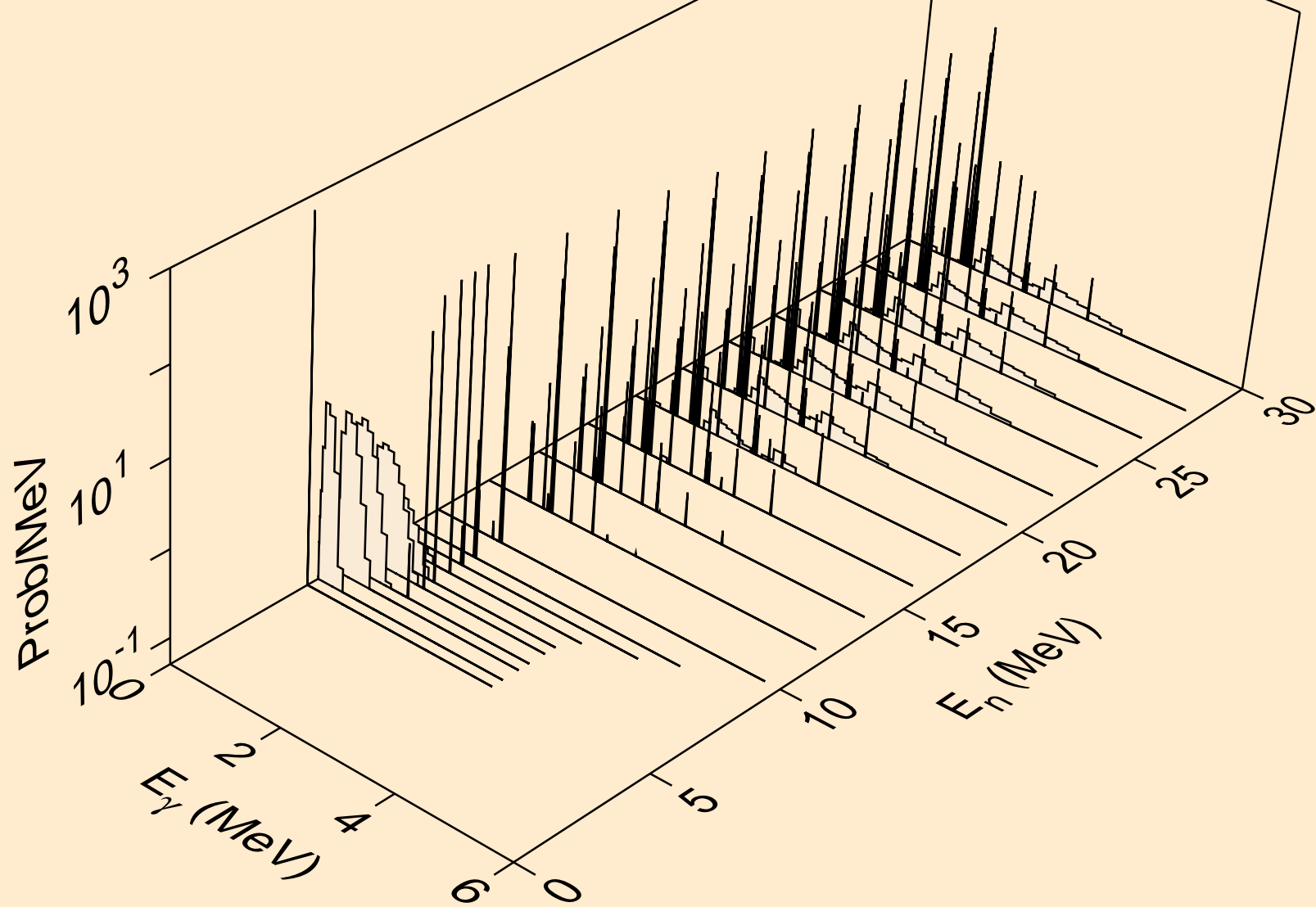


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Photon emission for (n,3a)

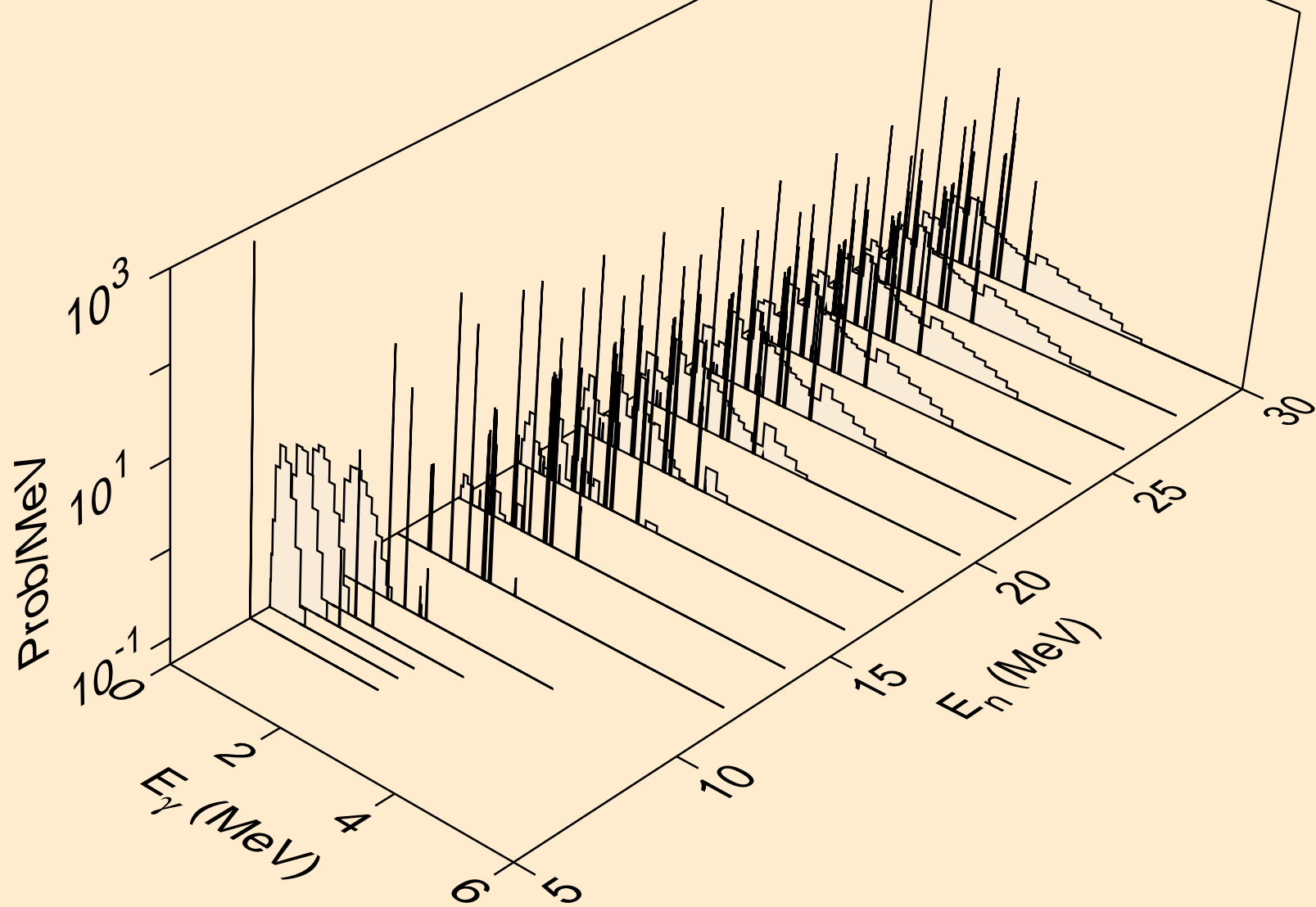




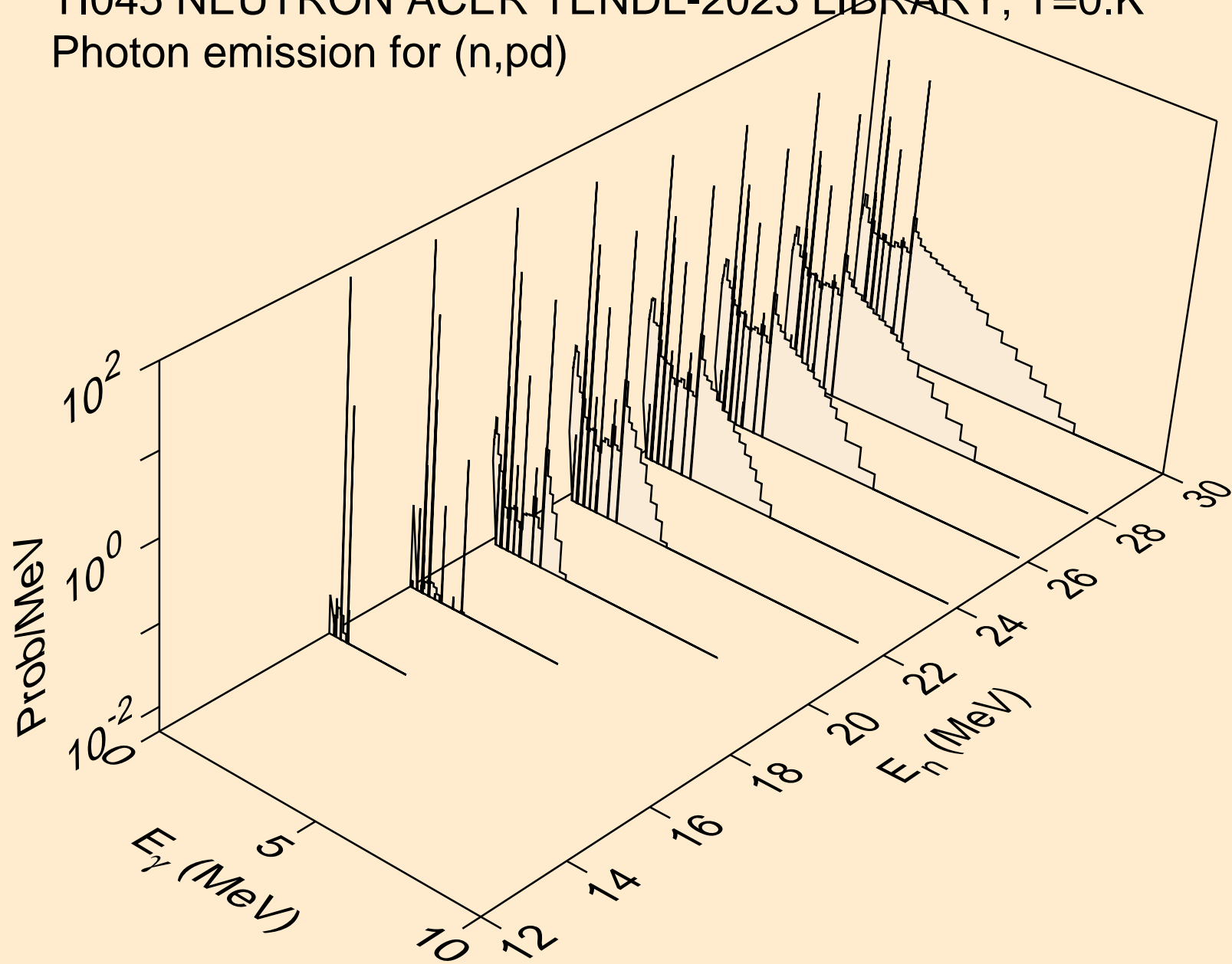
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Photon emission for (n,2p)



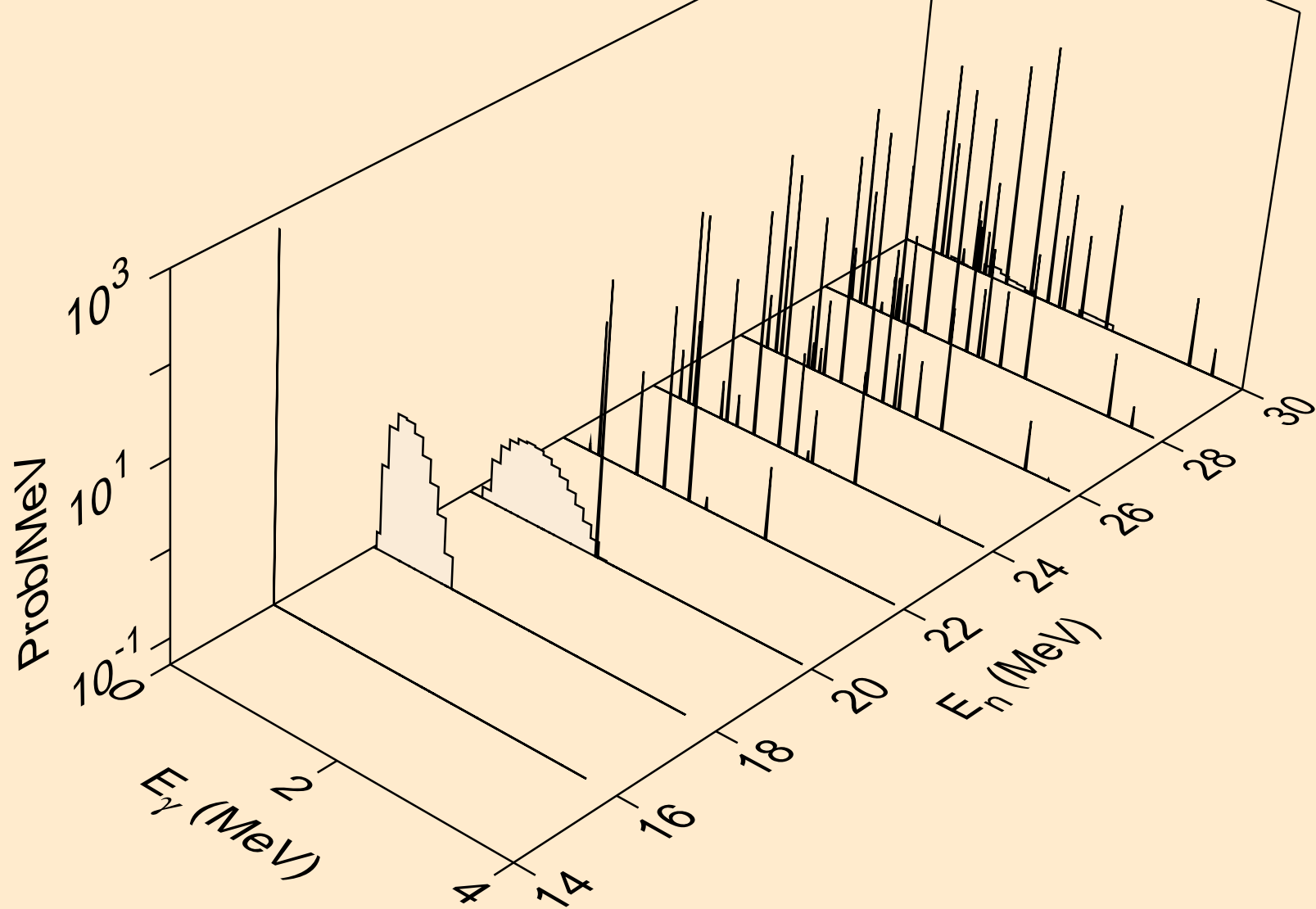
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Photon emission for (n,p)



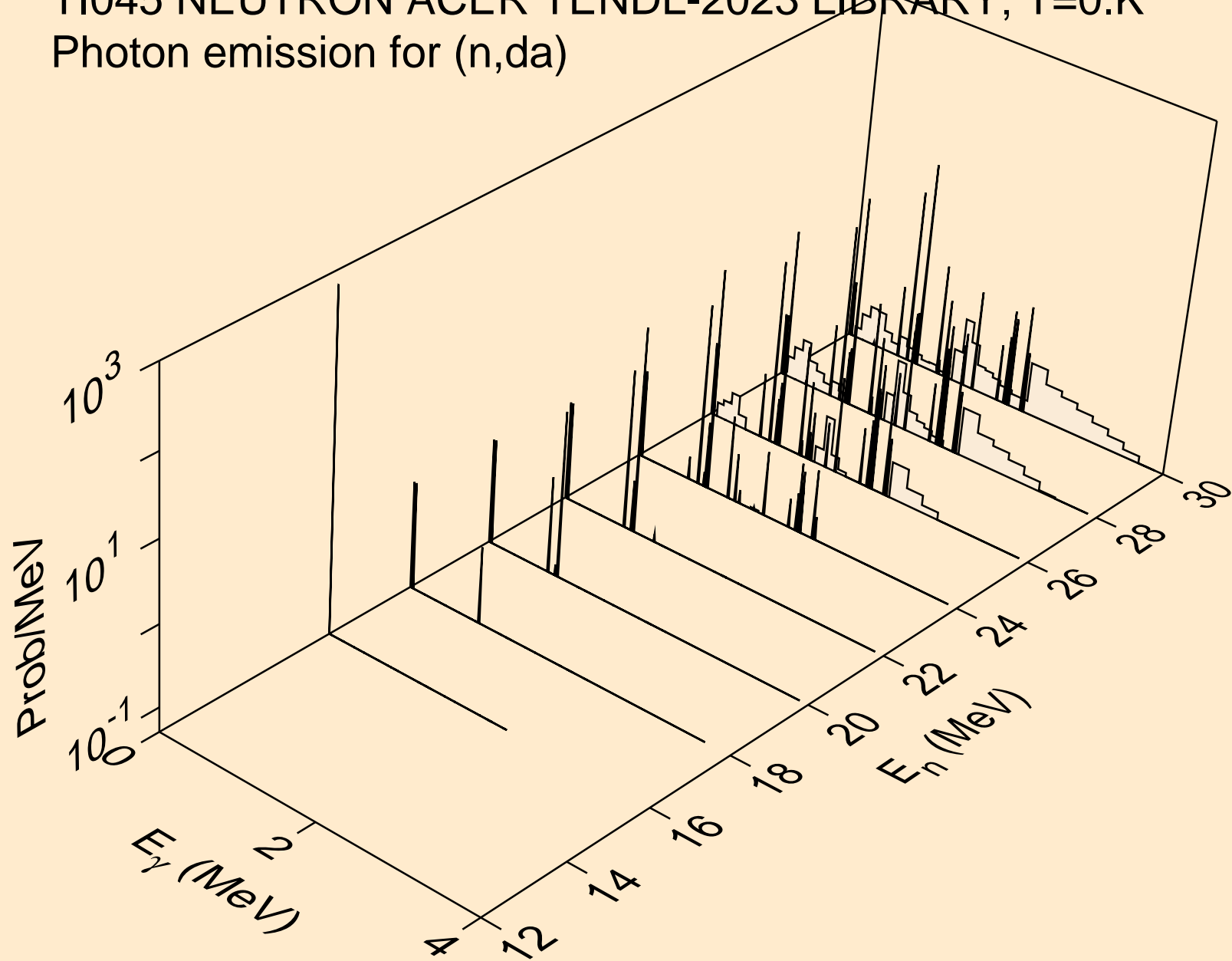
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Photon emission for (n,pd)



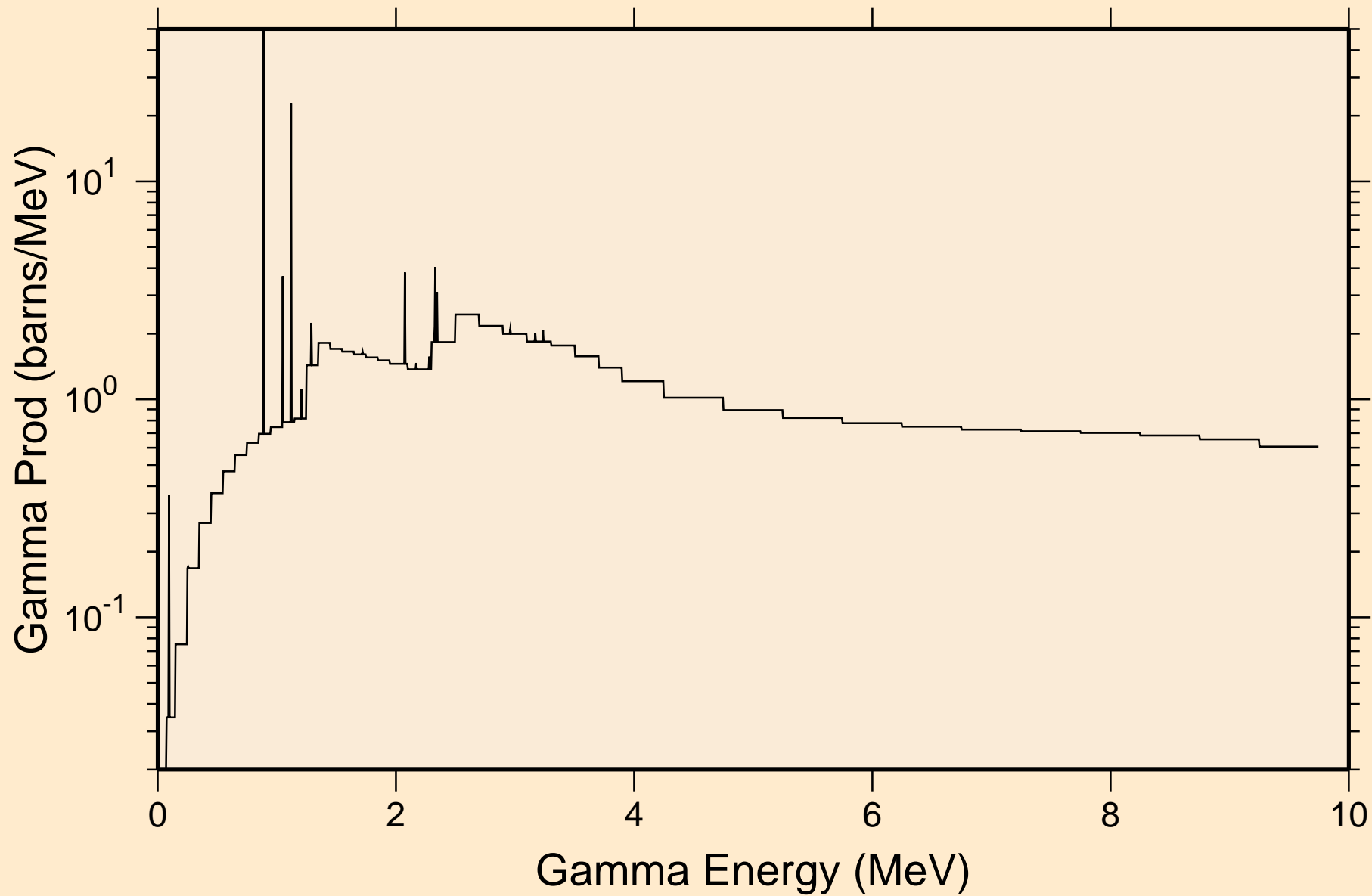
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Photon emission for (n,pt)



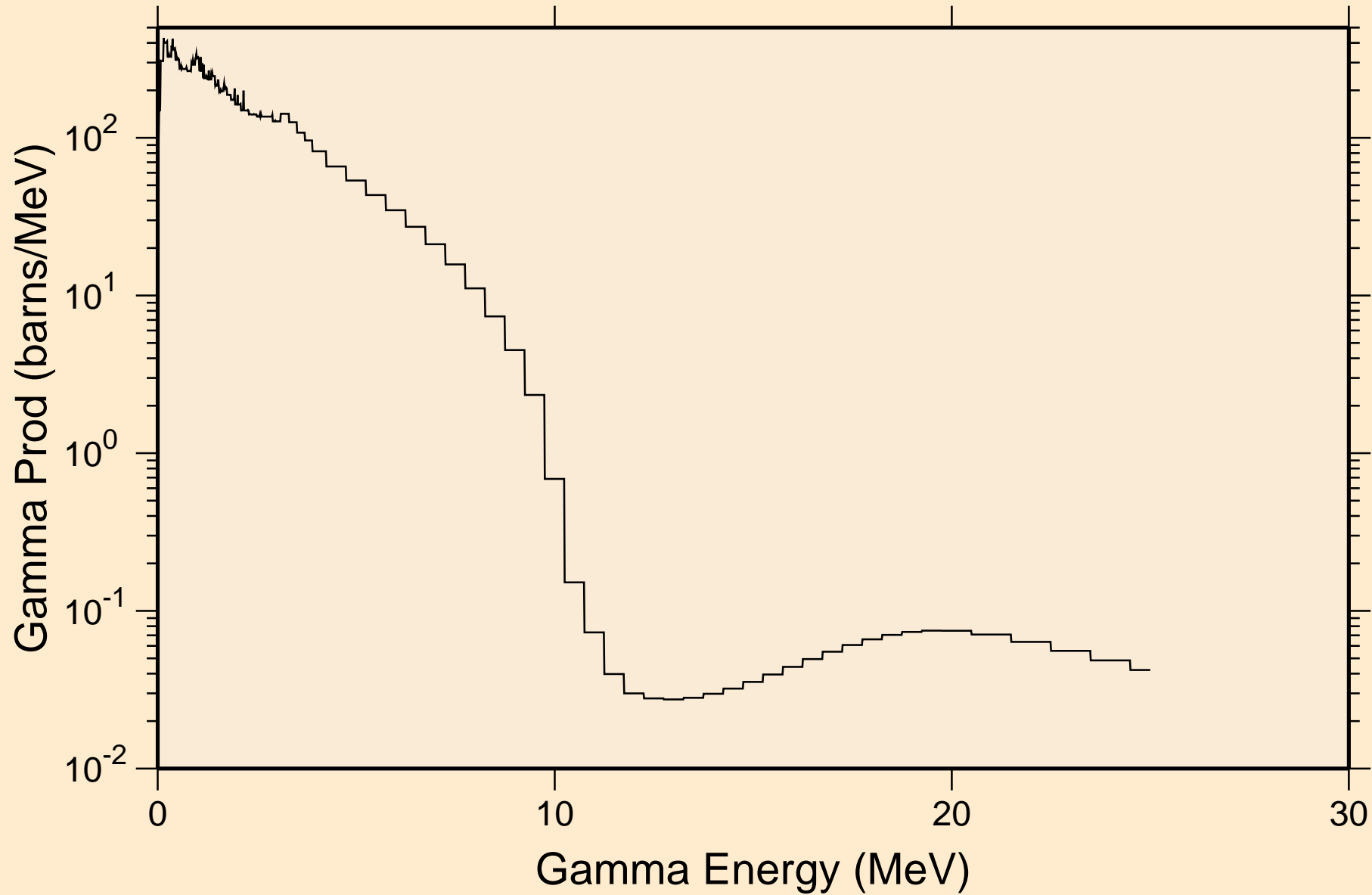
TI045 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,da)



TI045 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
thermal capture photon spectrum

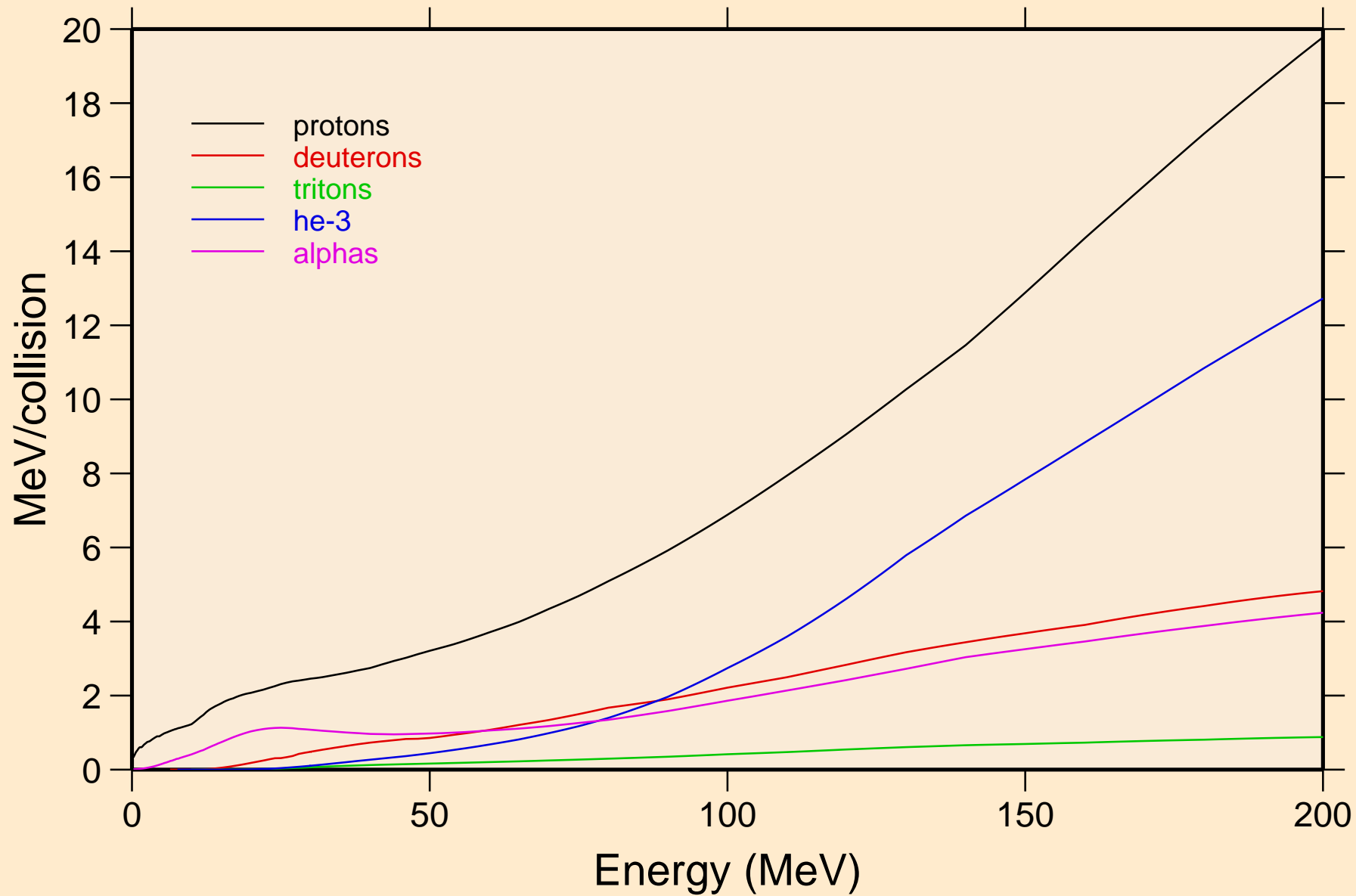


TI045 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
14 MeV photon spectrum



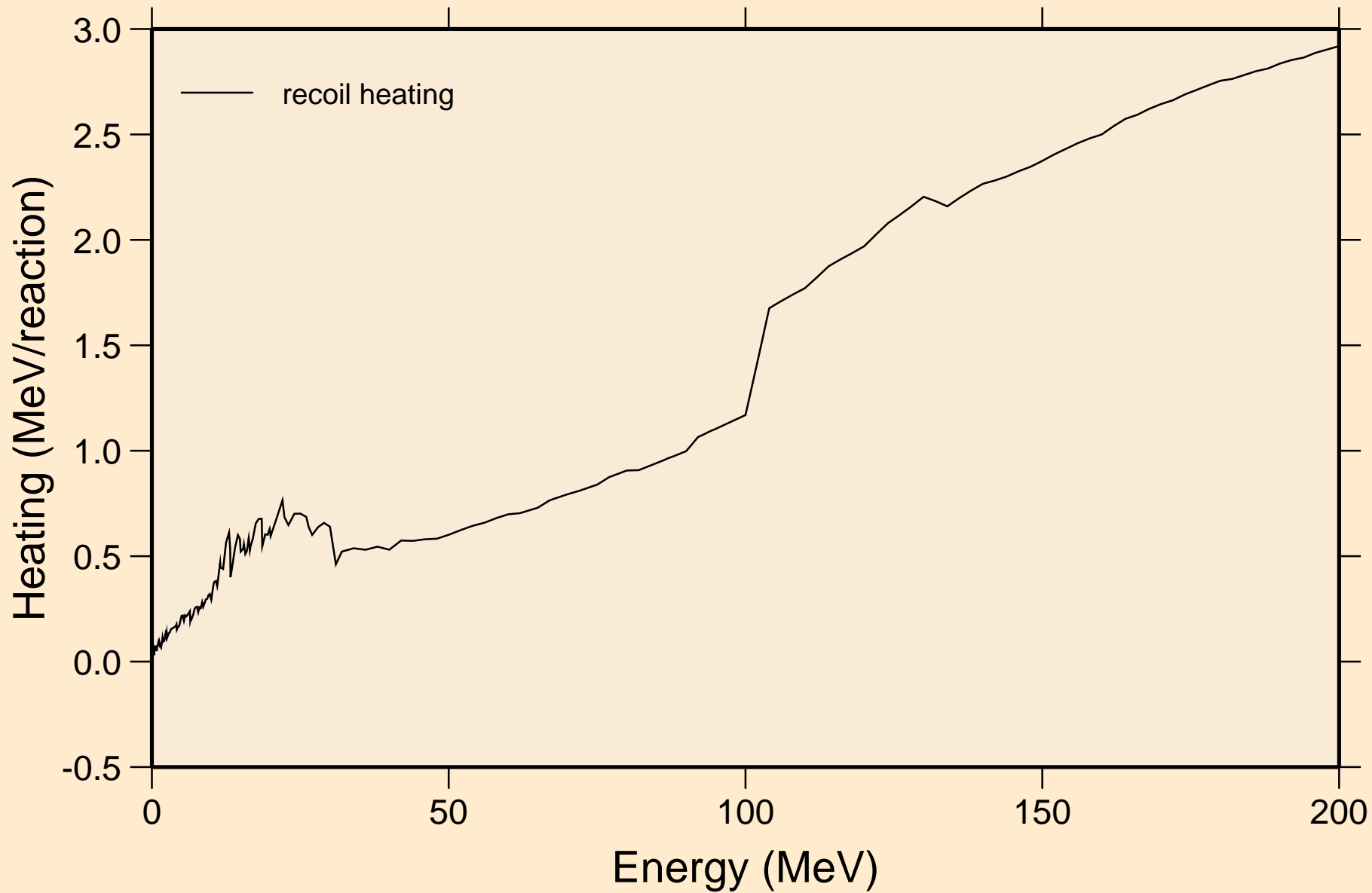
# TI045 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

## Particle heating contributions

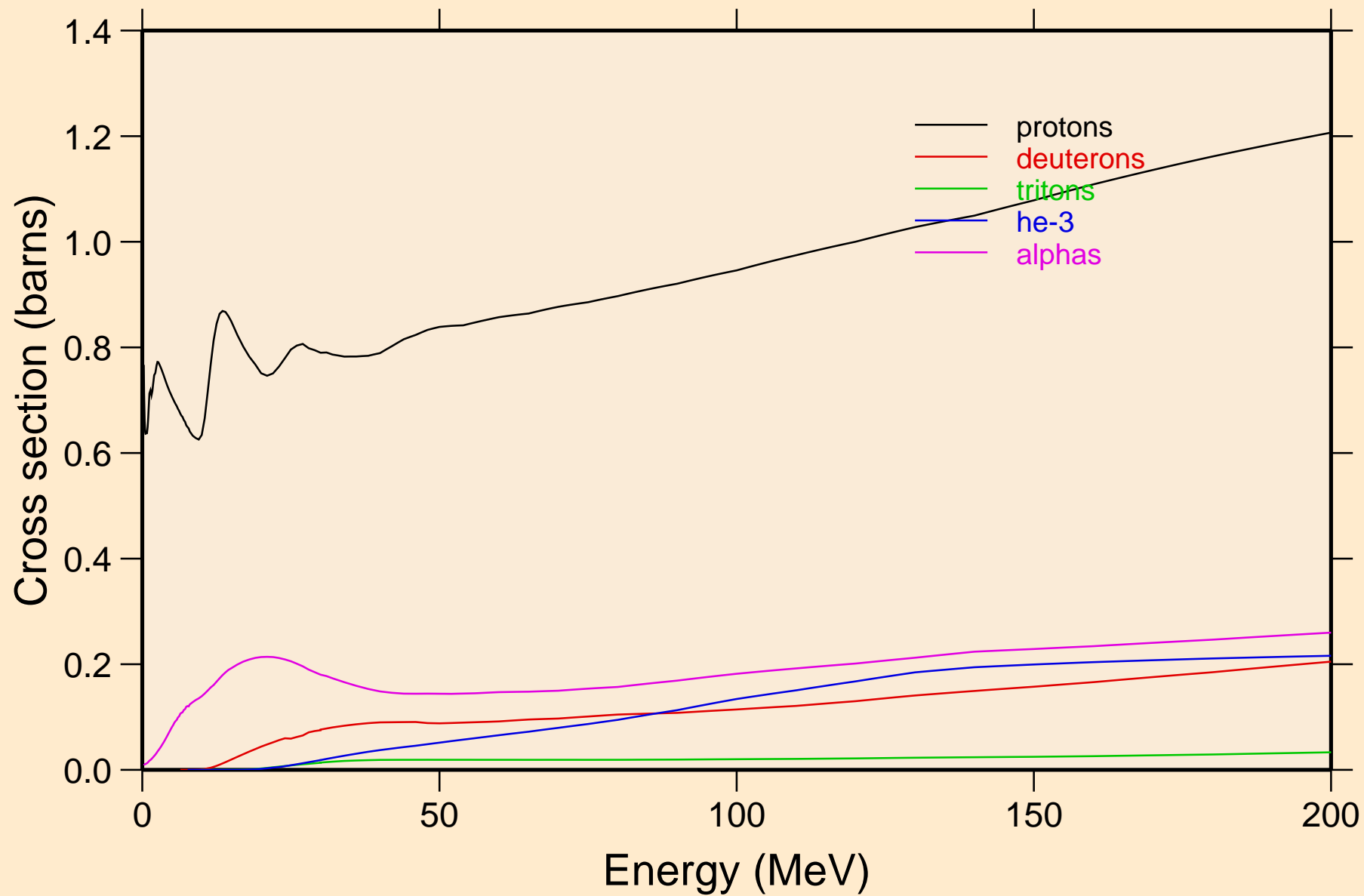




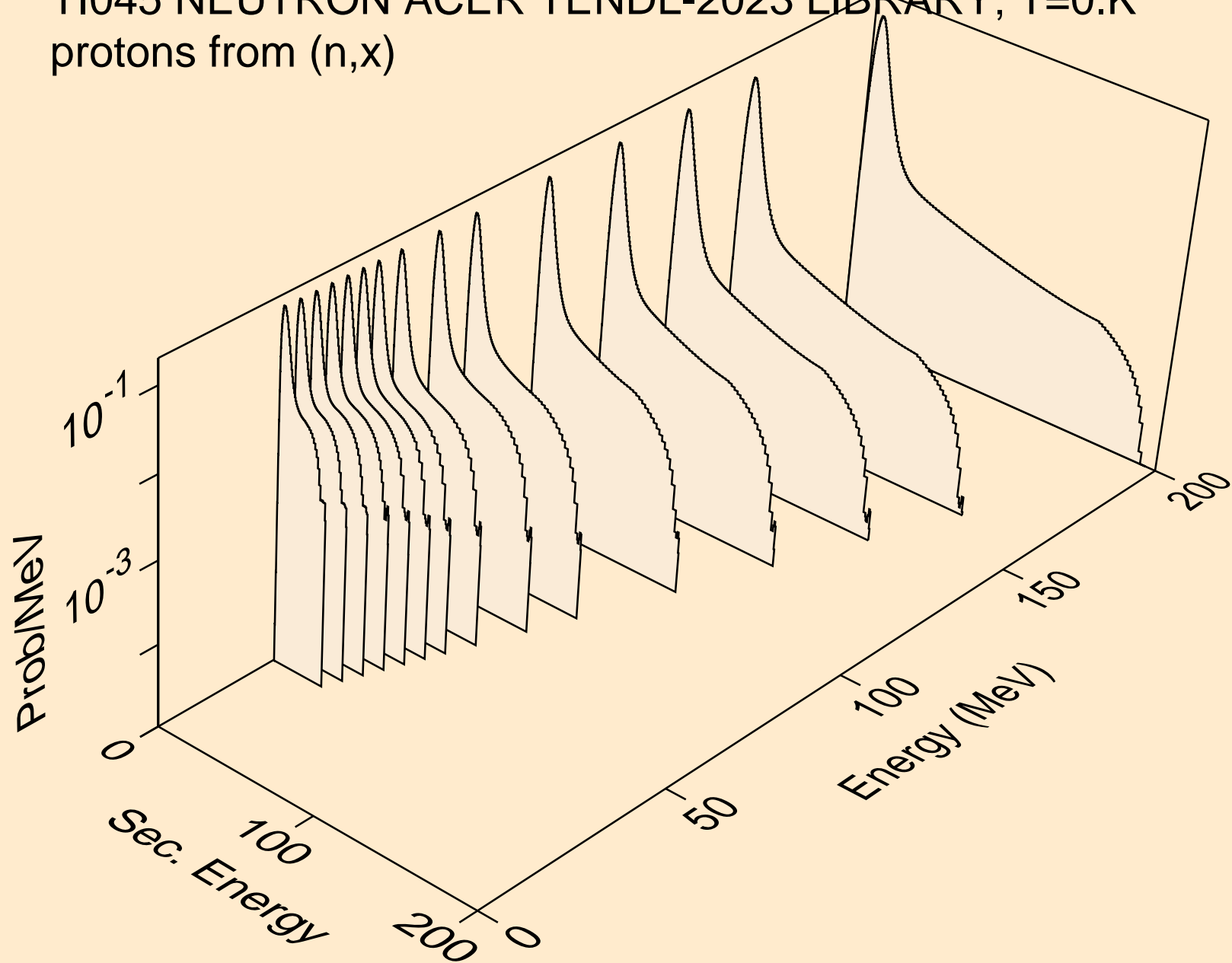
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Recoil Heating



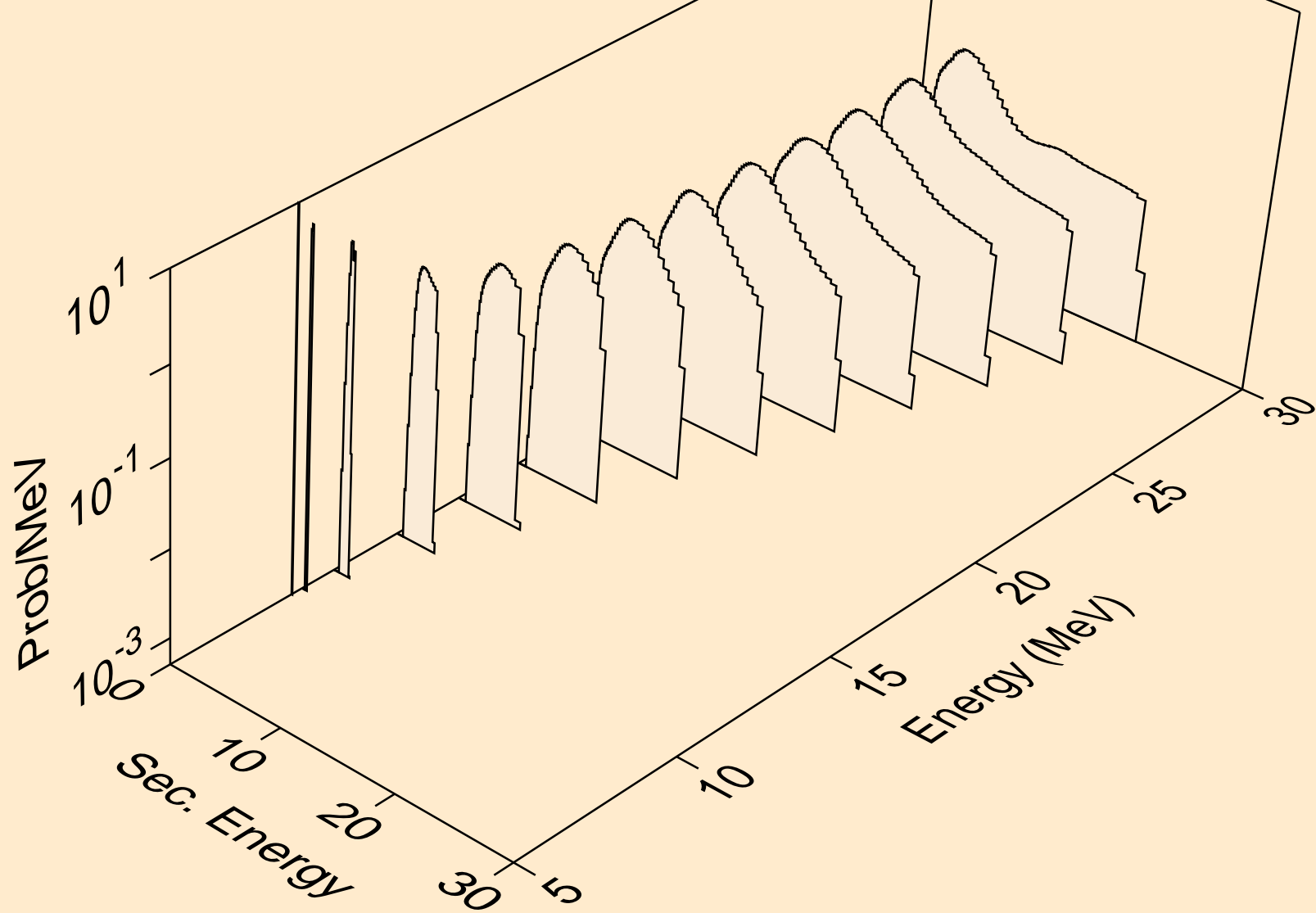
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Particle production cross sections



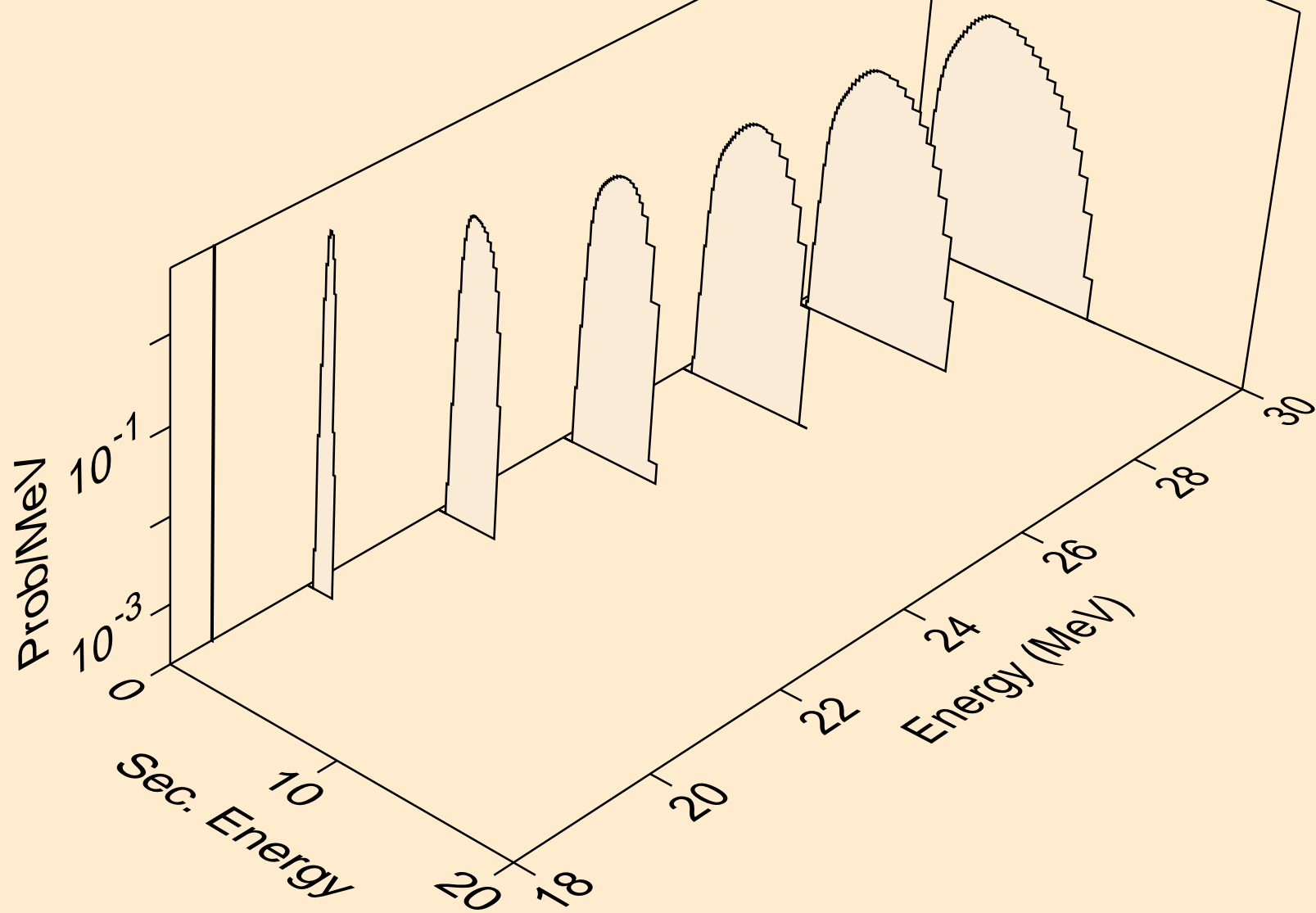
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protons from (n,x)



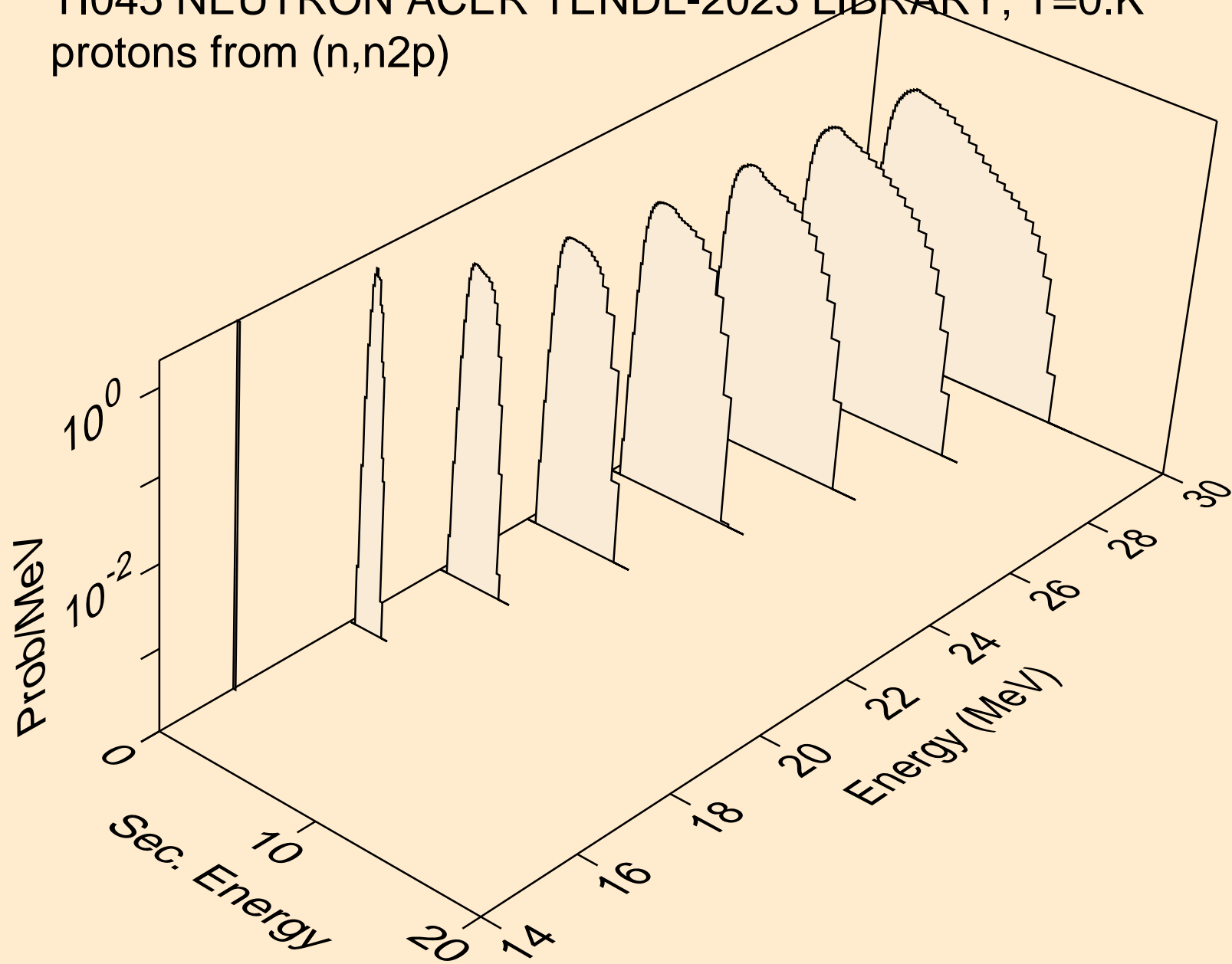
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protons from (n,n\*)p



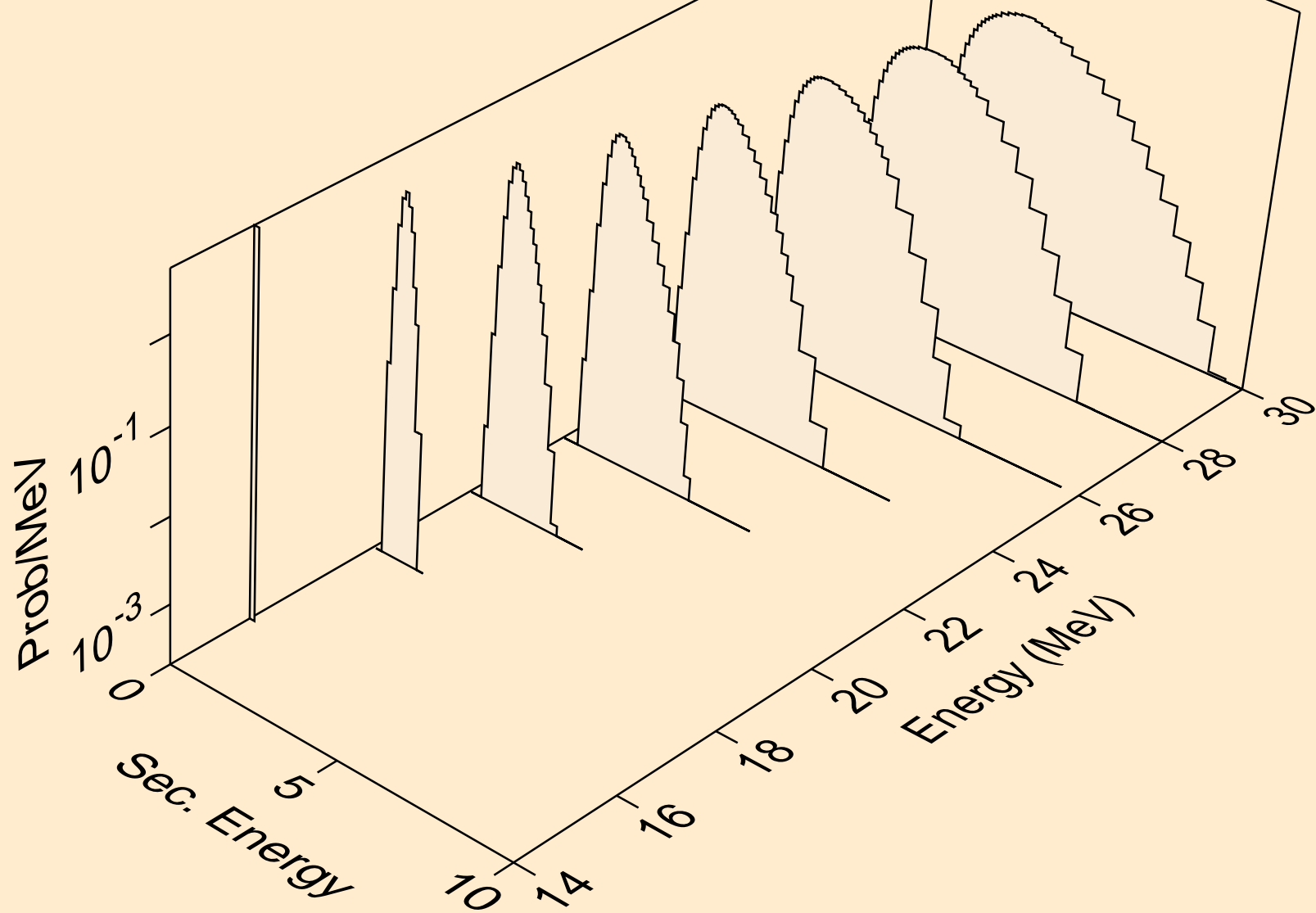
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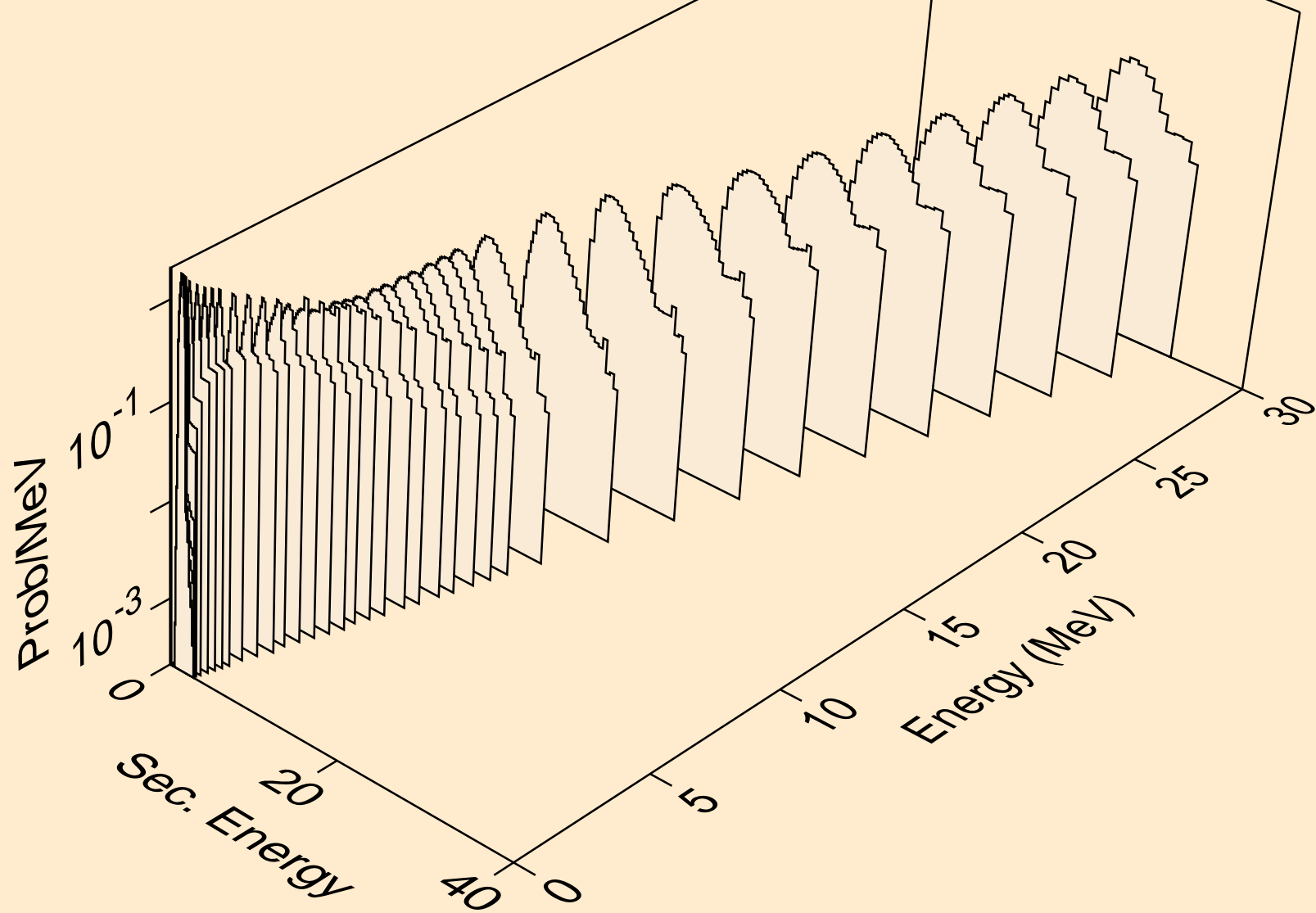
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TI045 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
protons from (n,npa)

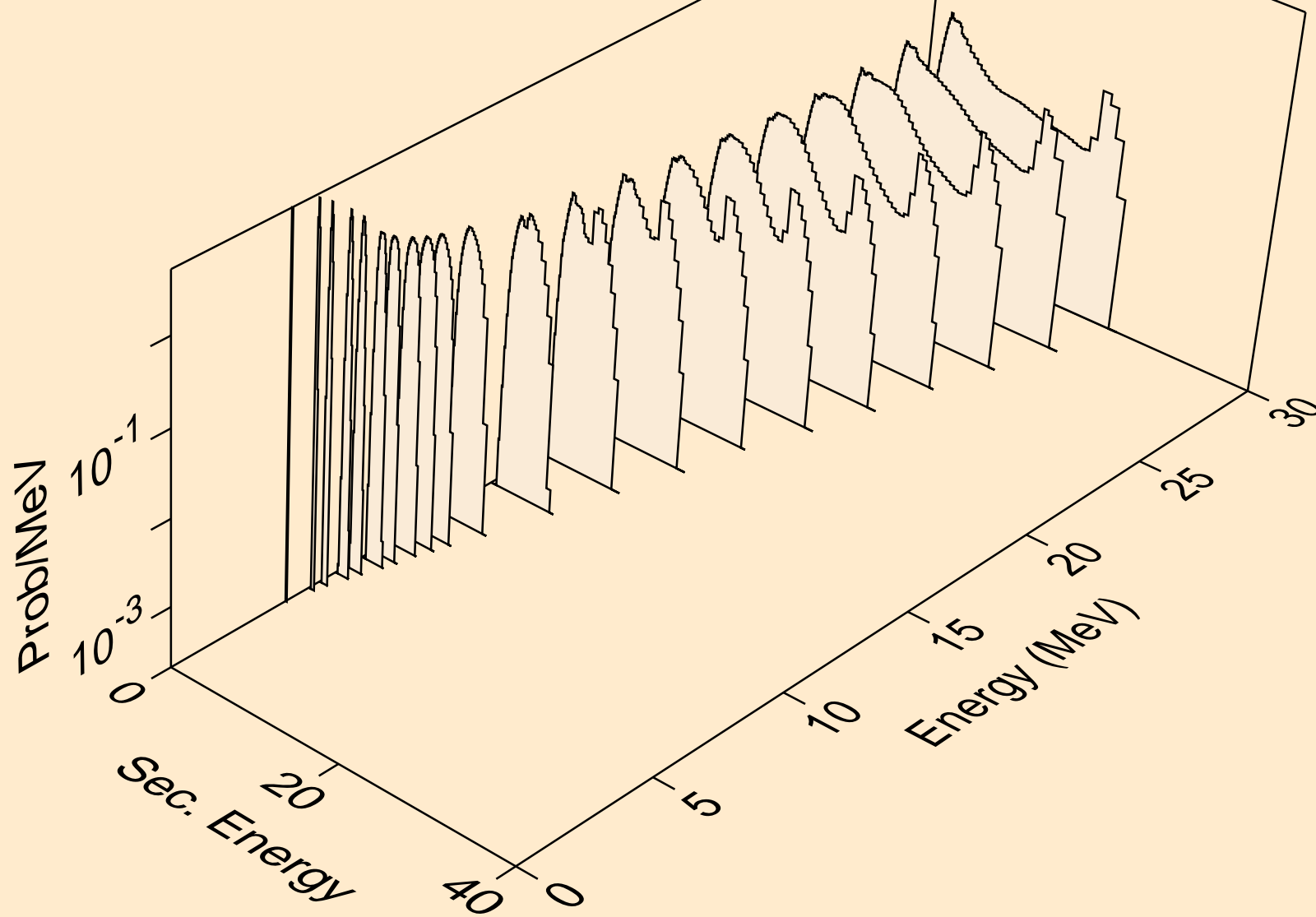


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protons from (n,p)

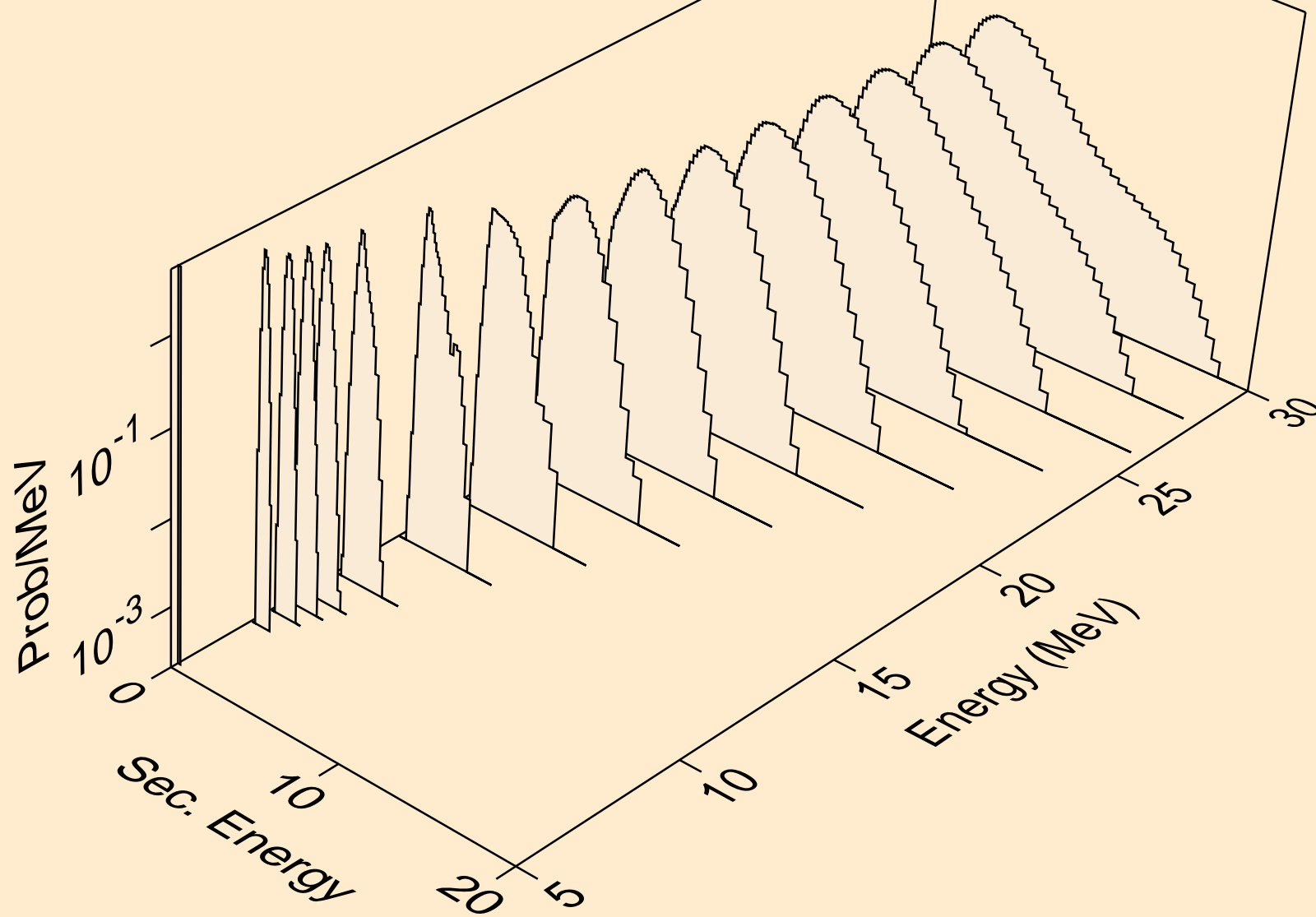




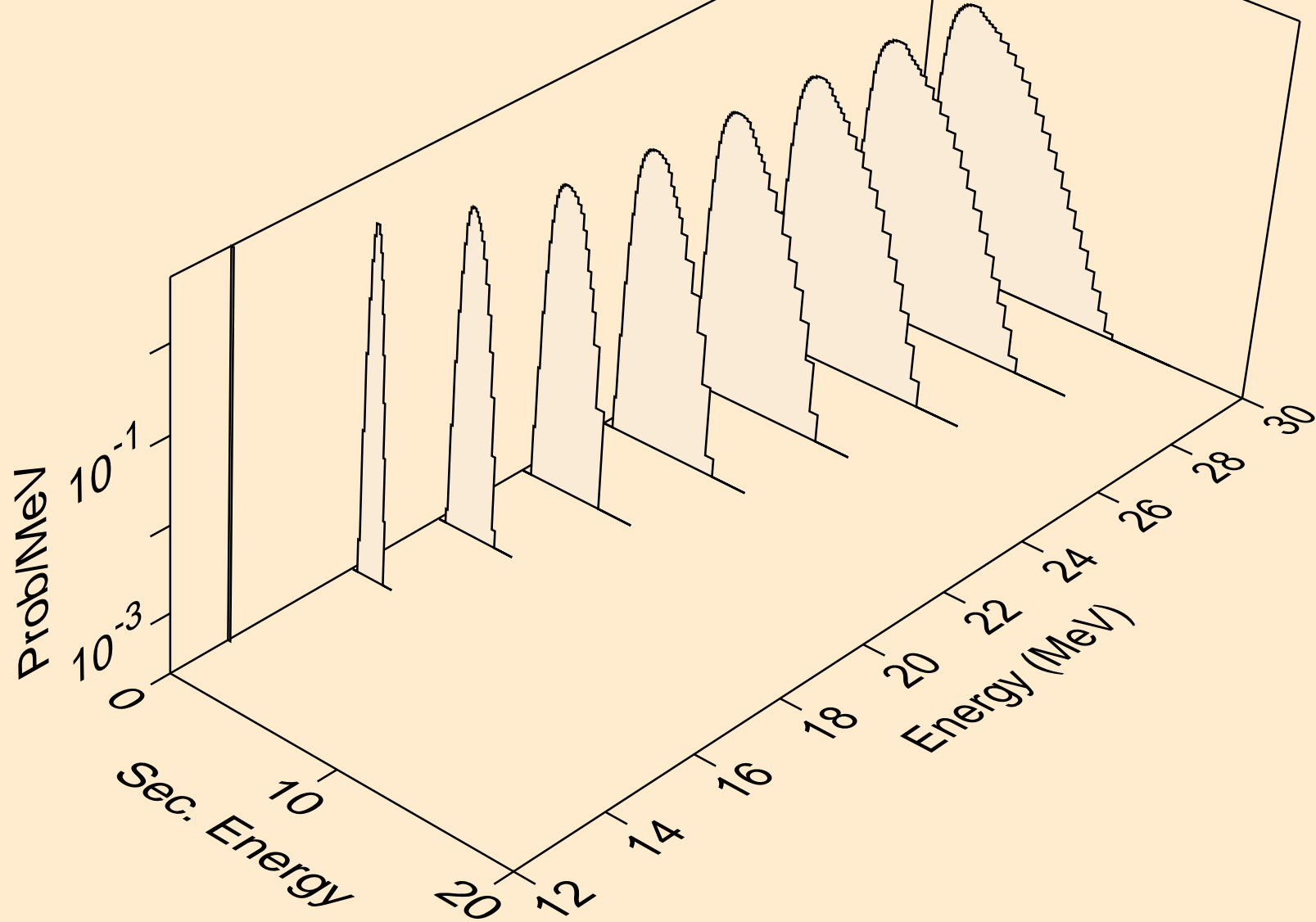
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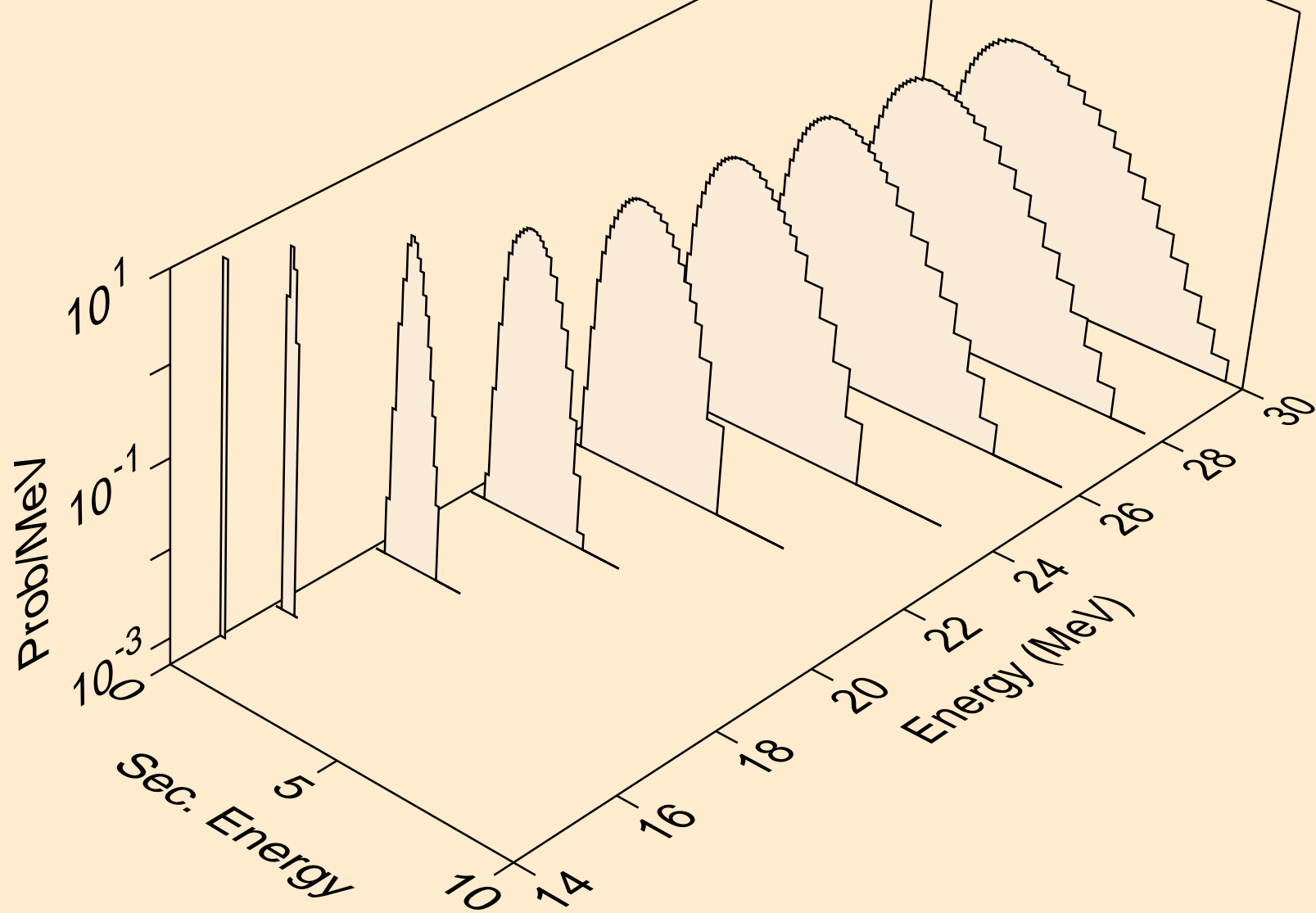
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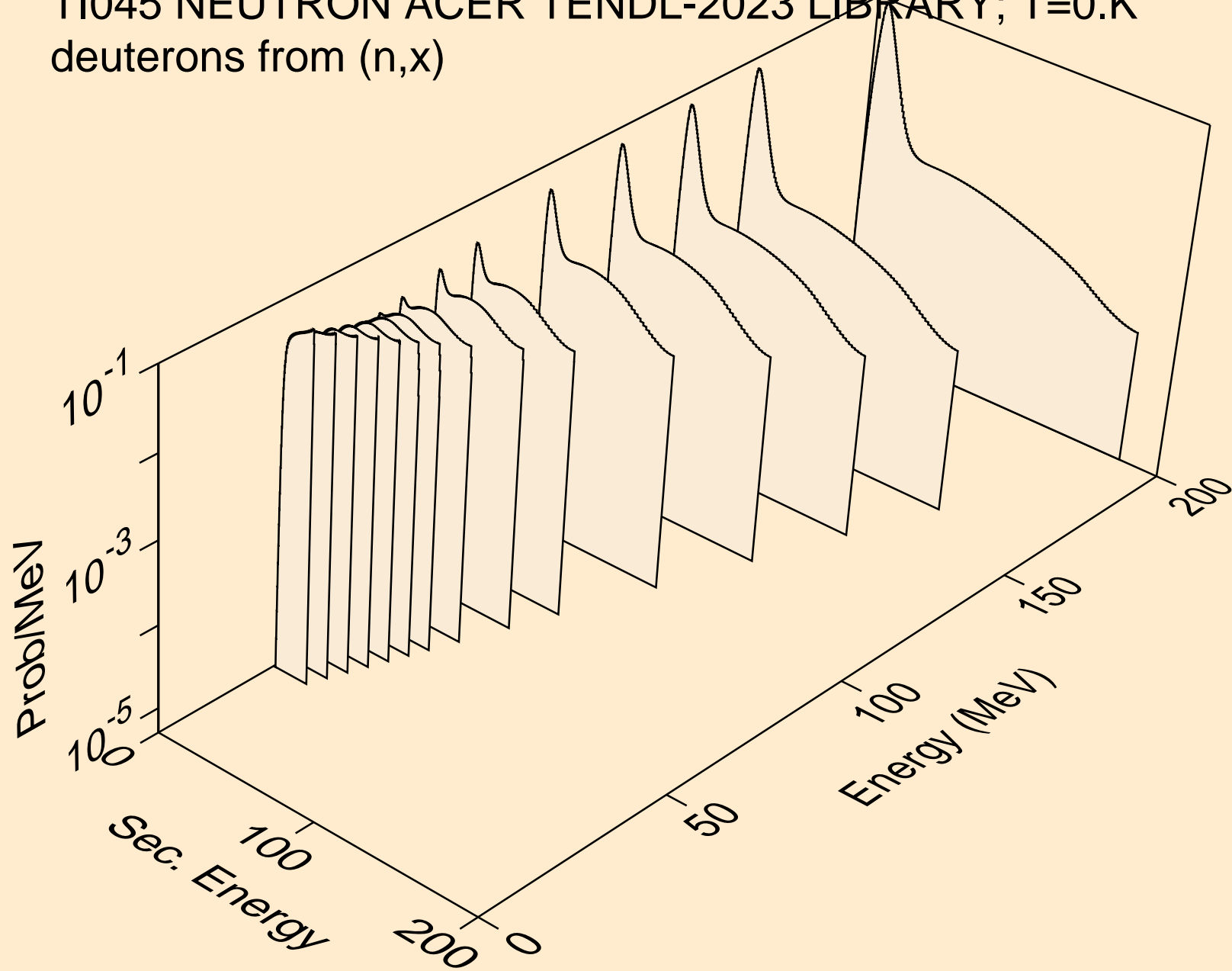
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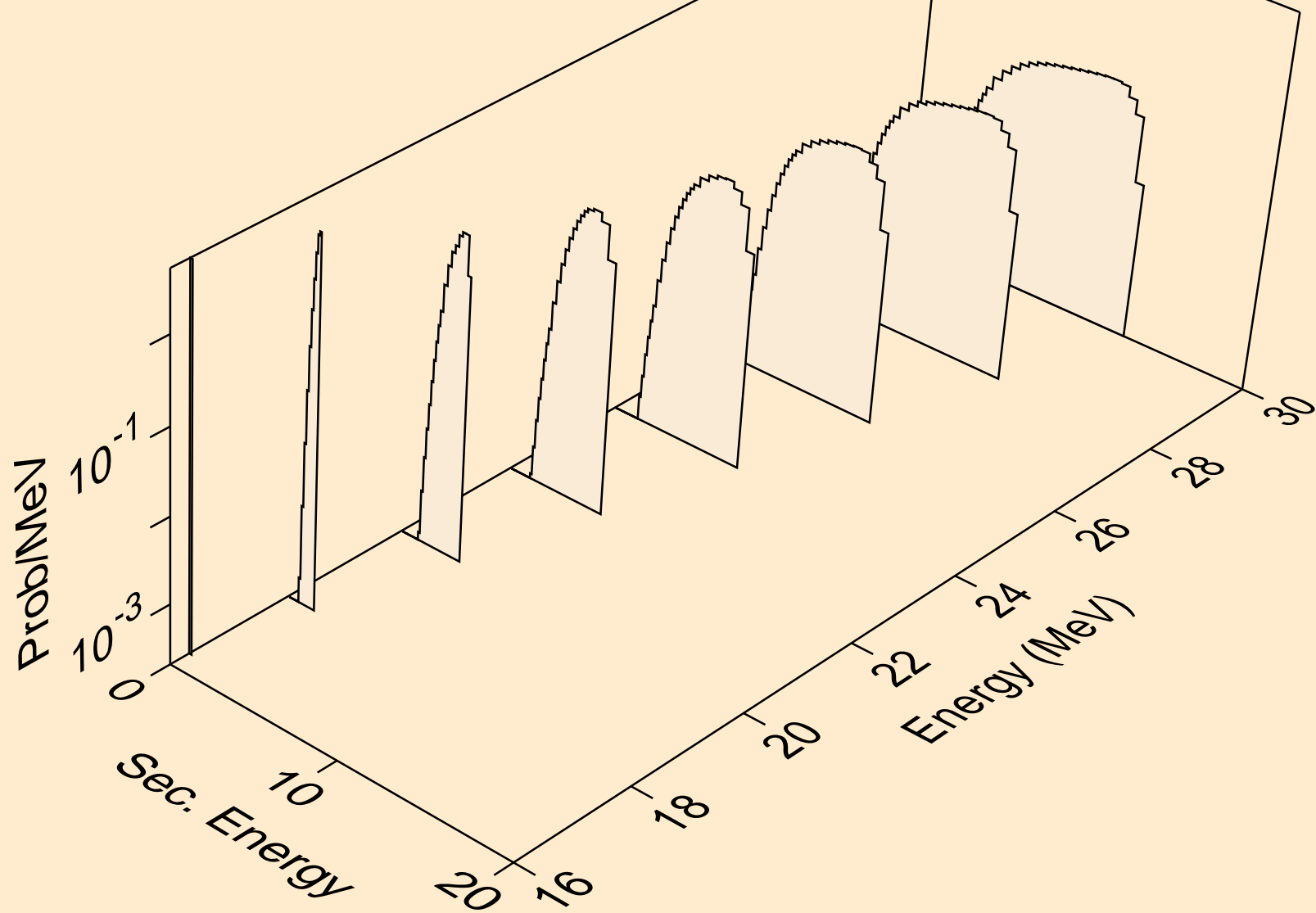
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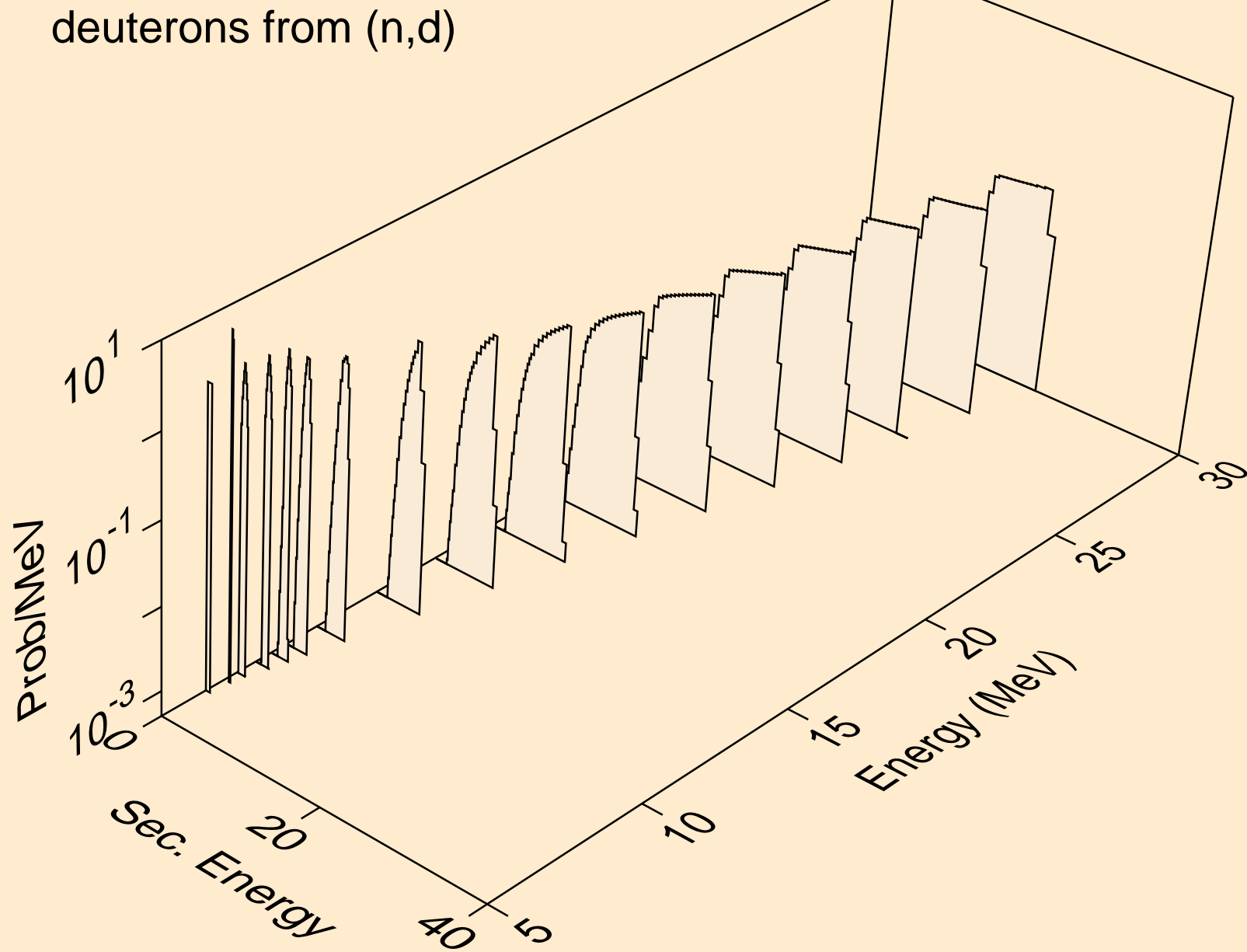
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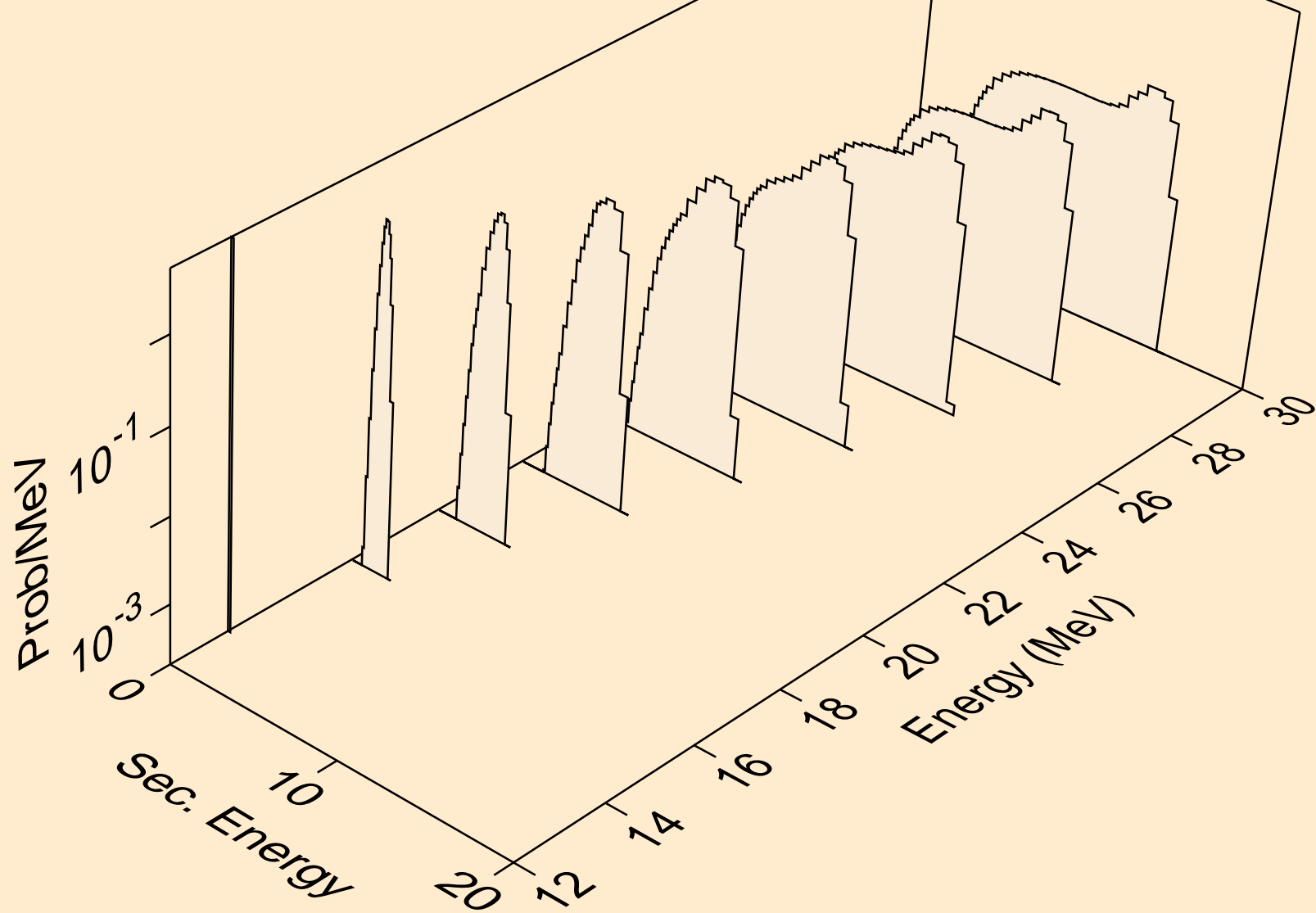
TI045 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
deuterons from (n,n\*)d



TI045 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
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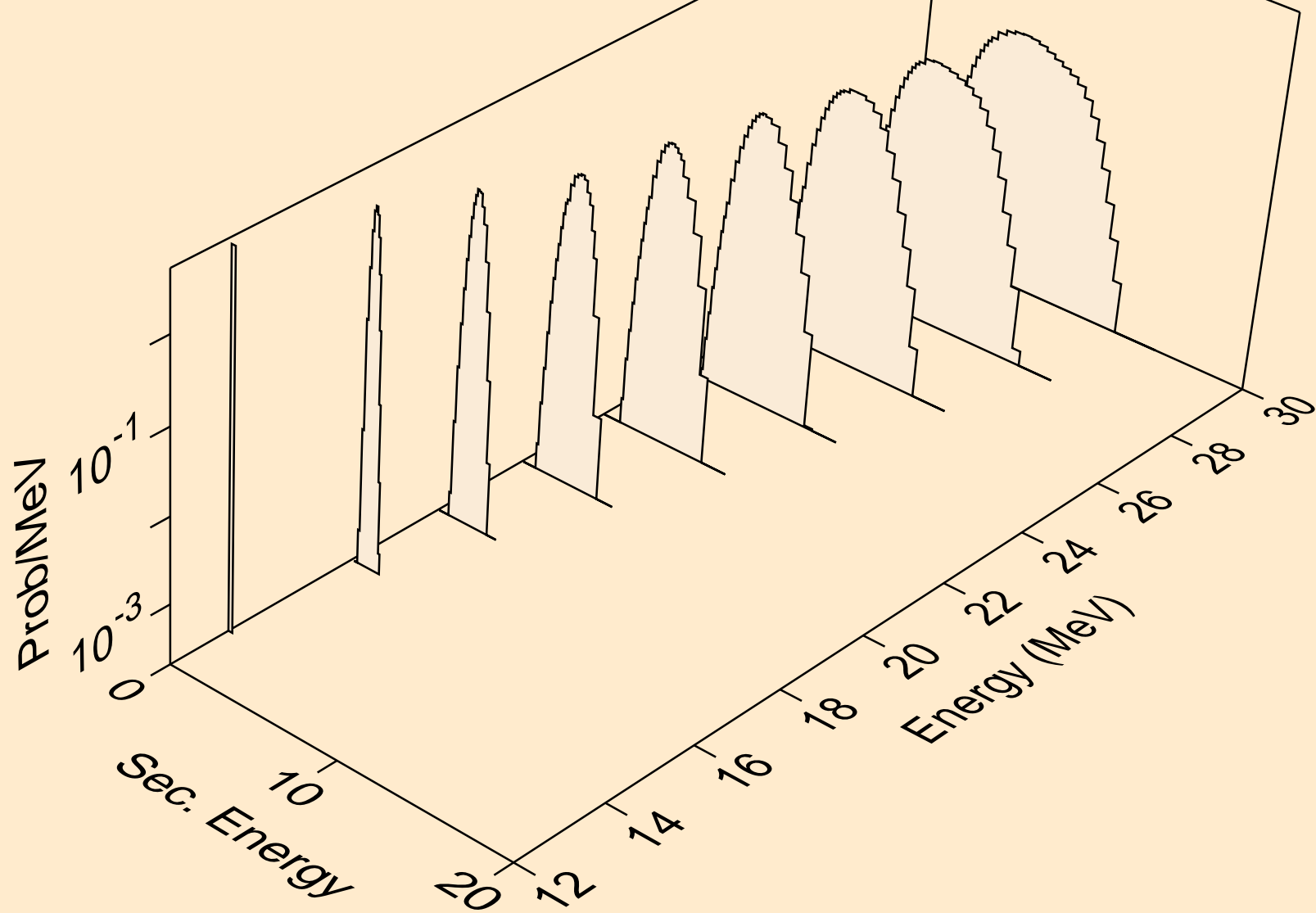


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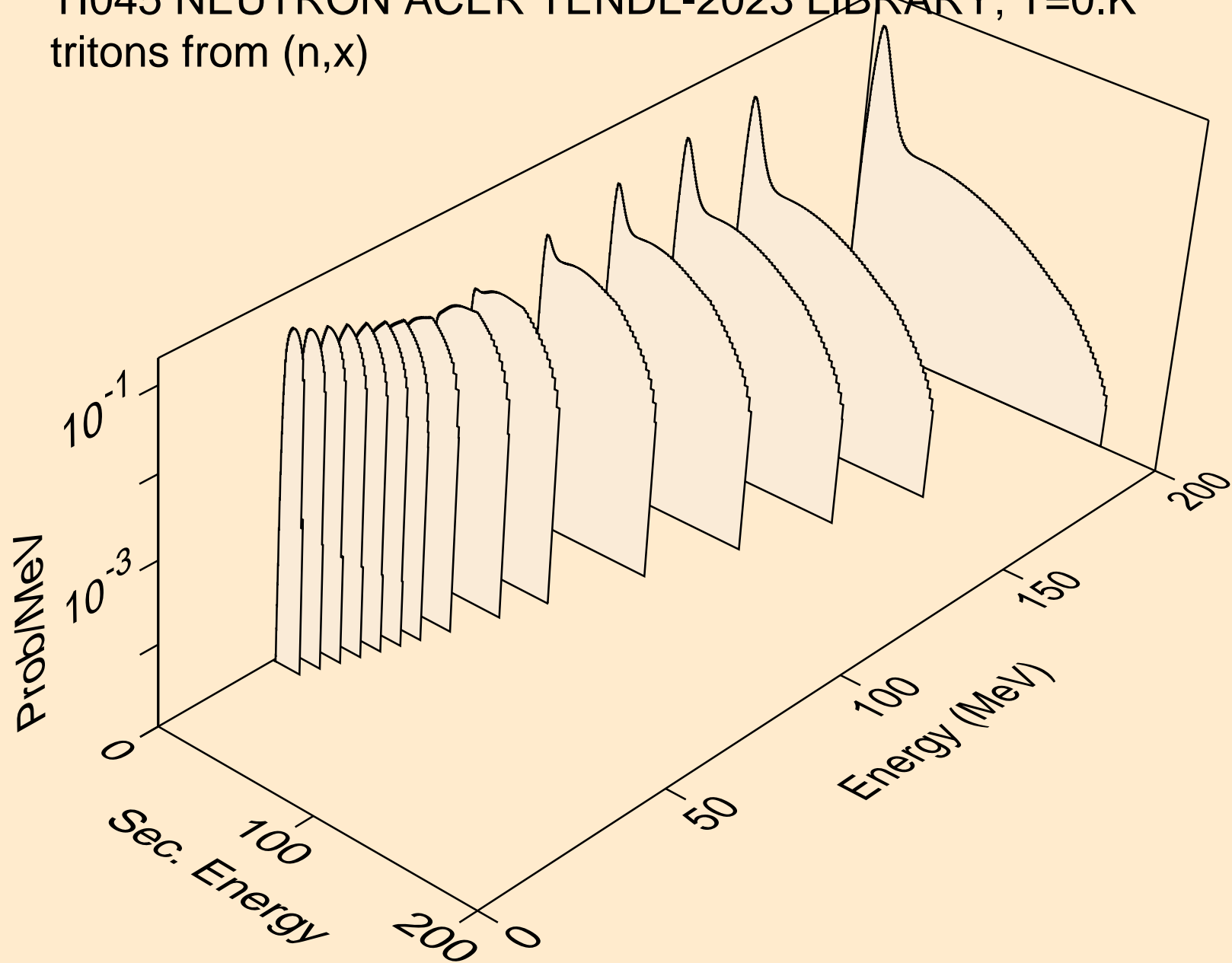




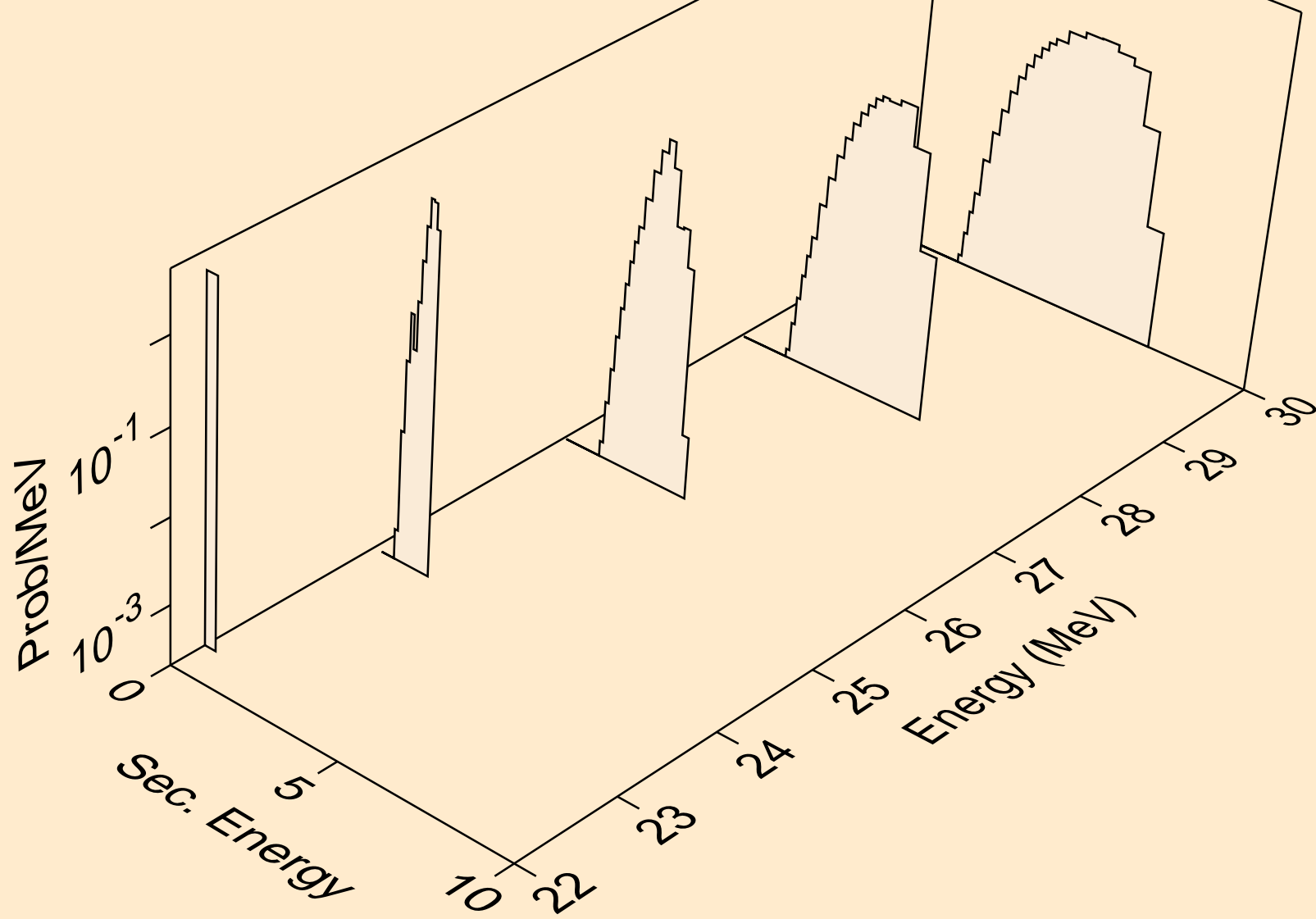
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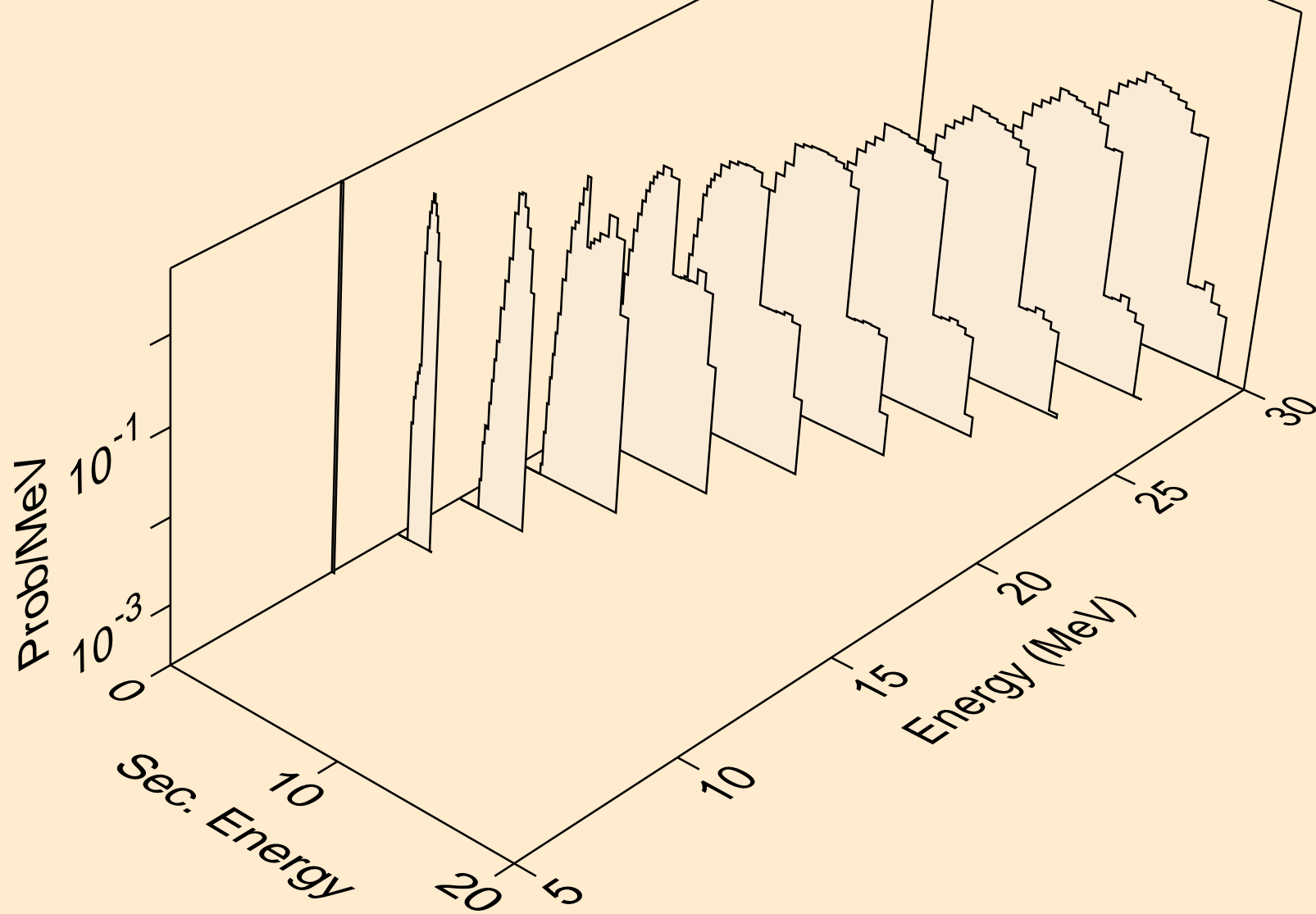
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tritons from (n,x)



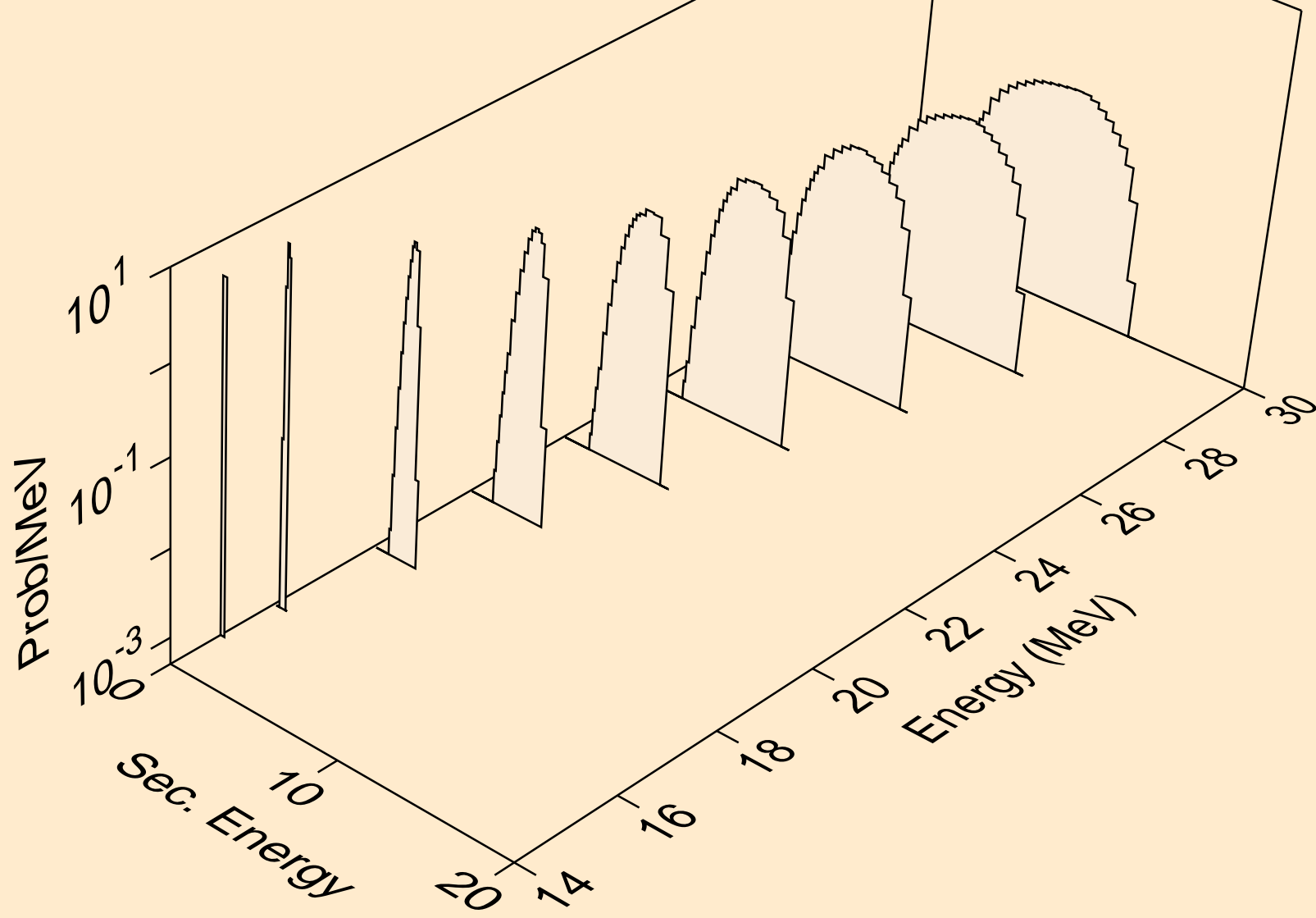
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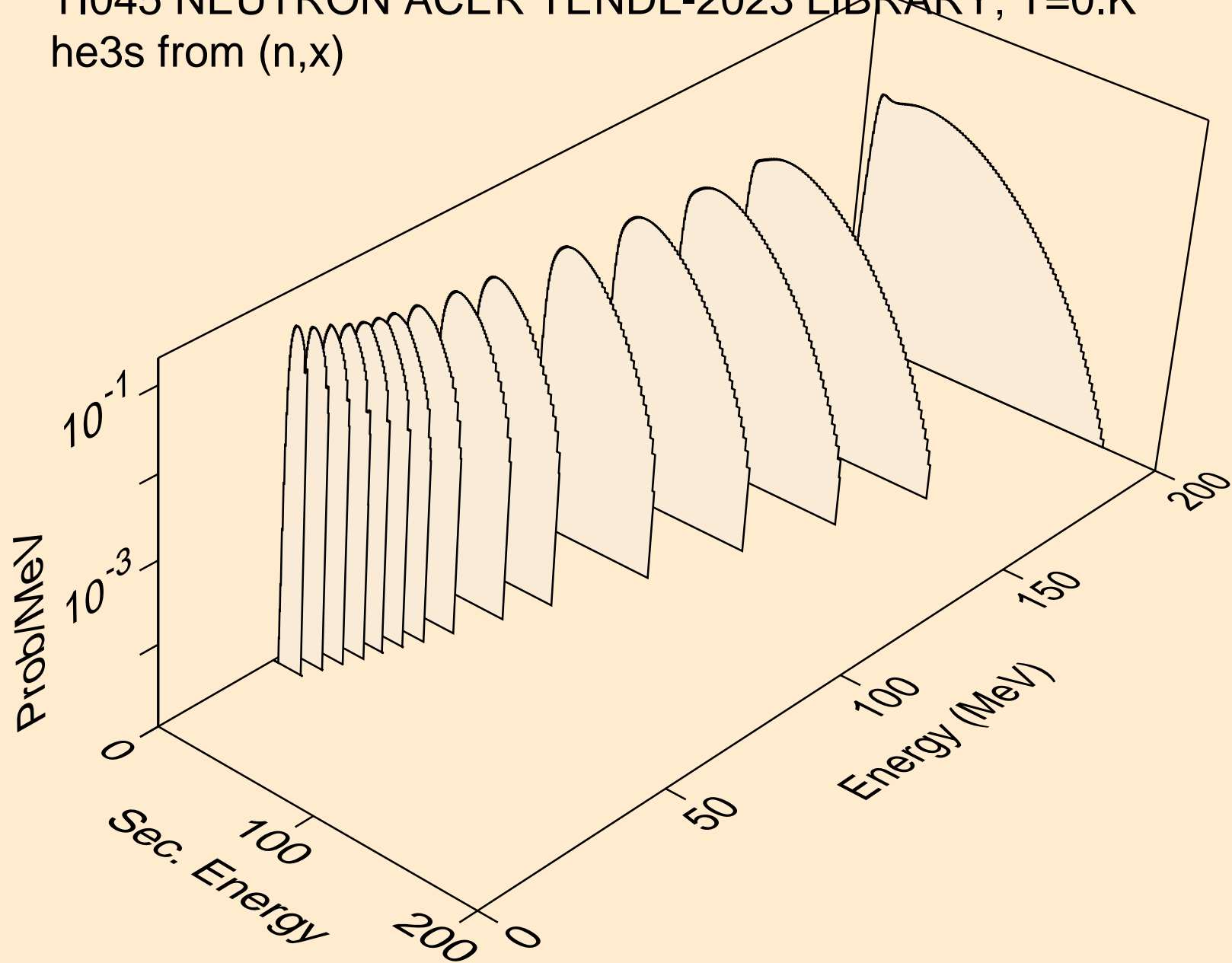
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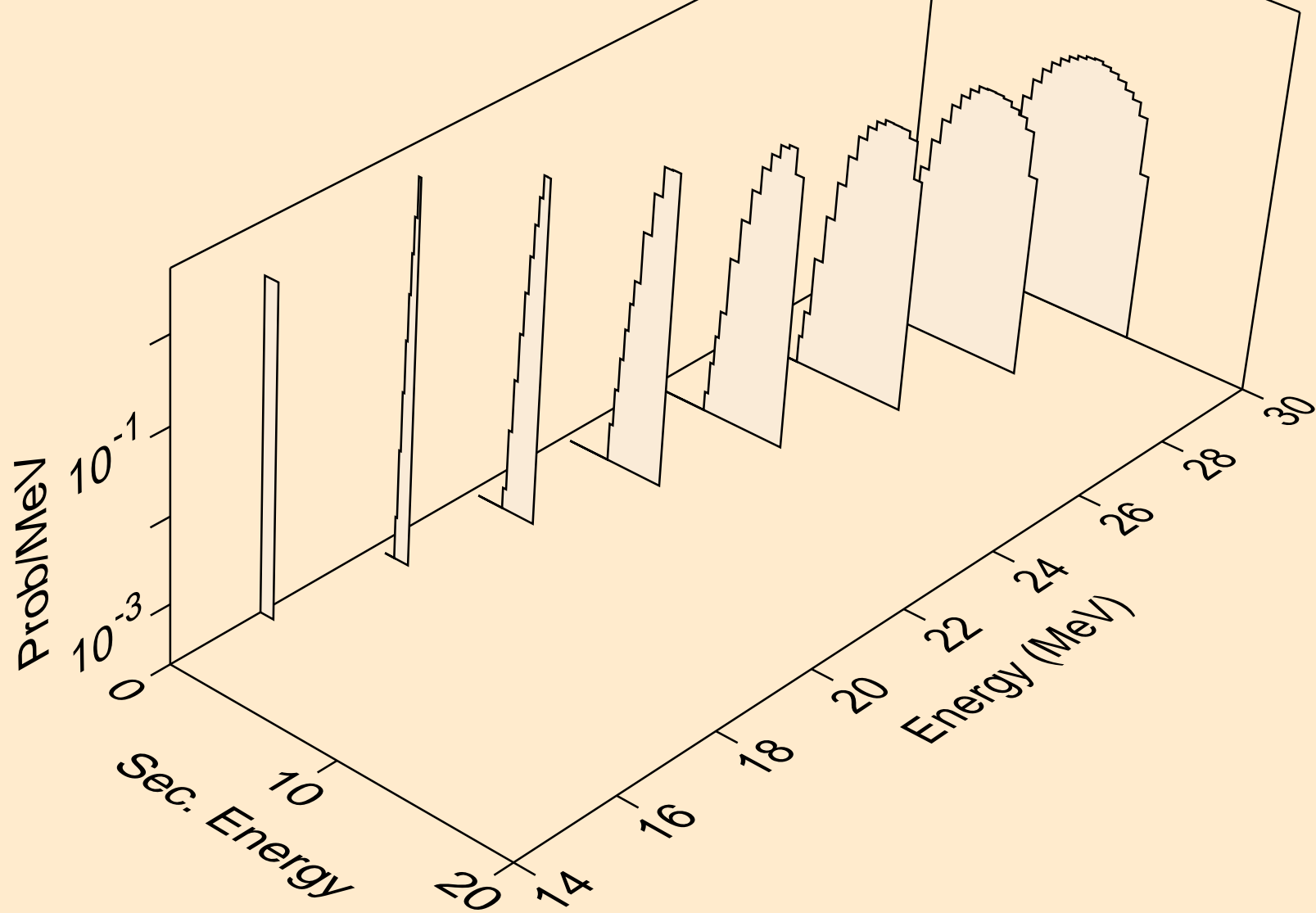
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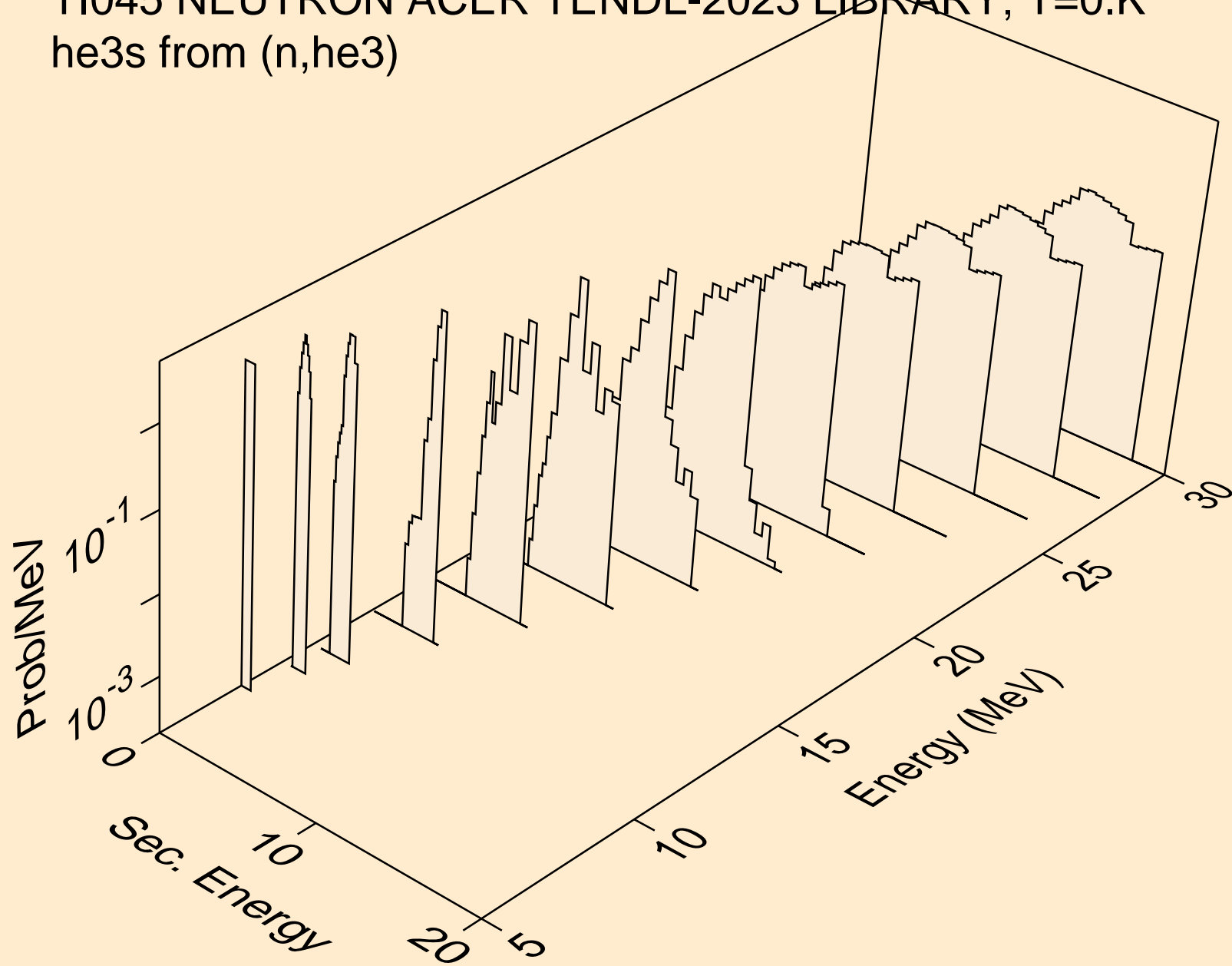
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he3s from (n,x)



TI045 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
he3s from (n,n\*)he3

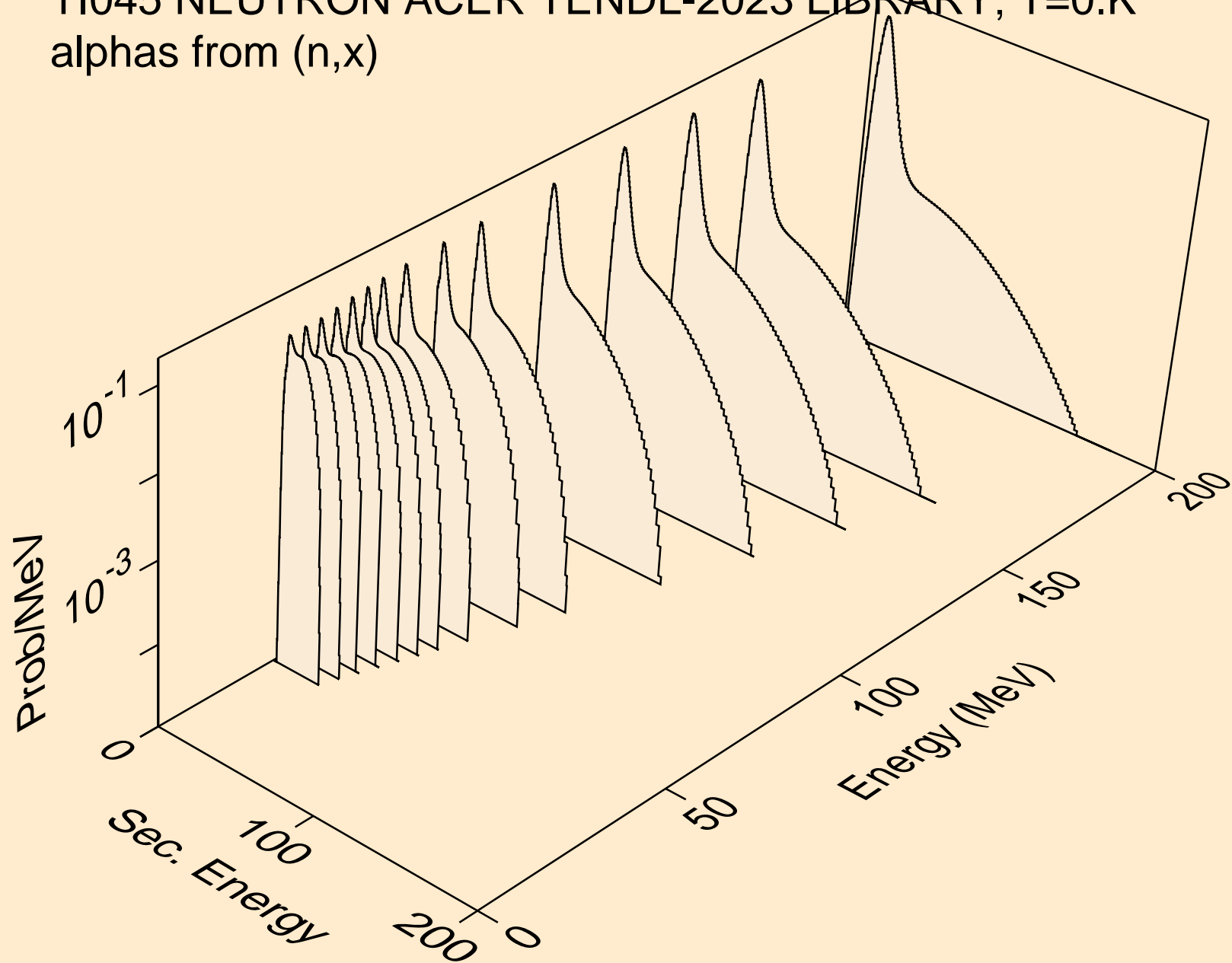


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he3s from (n,he3)

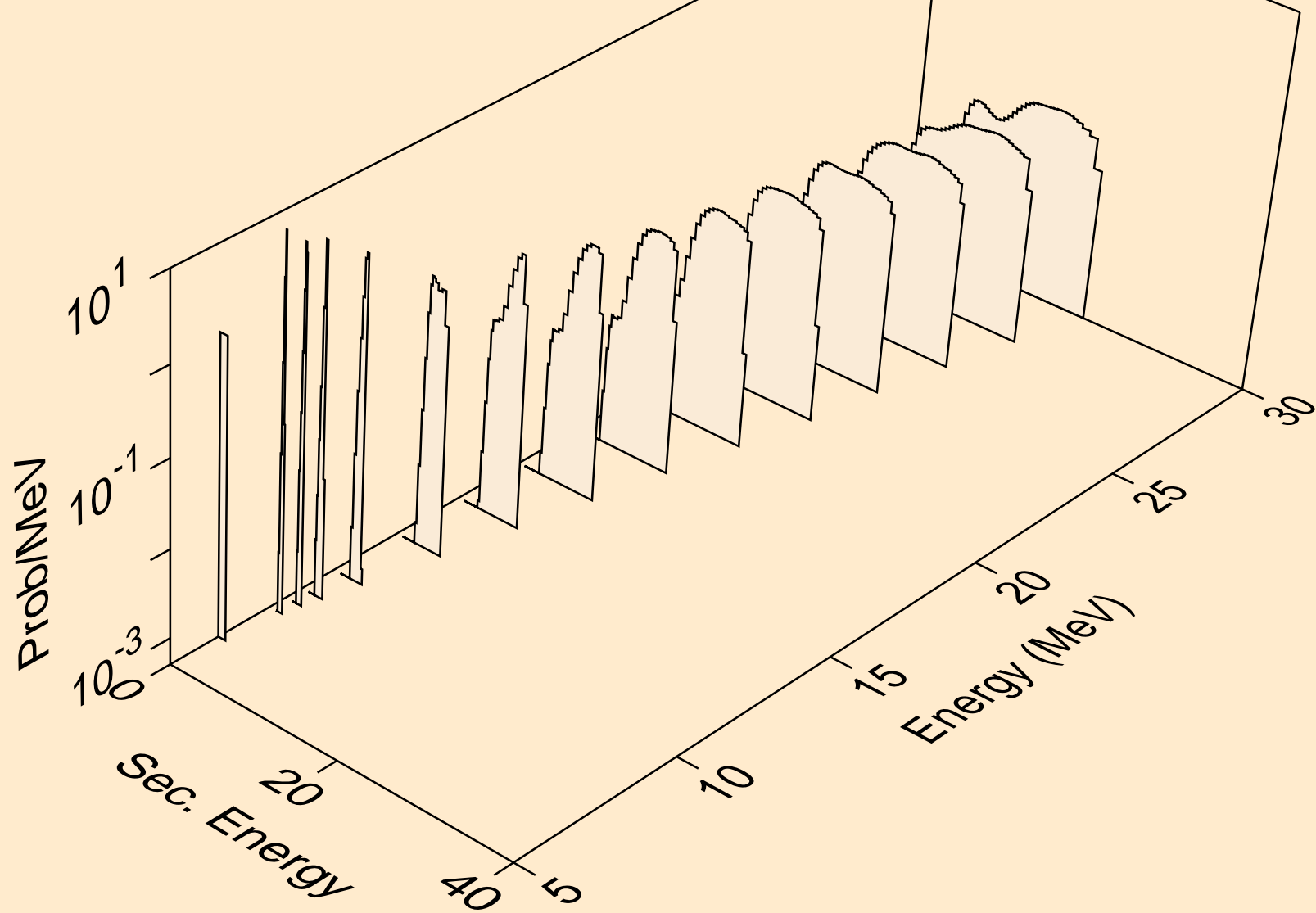




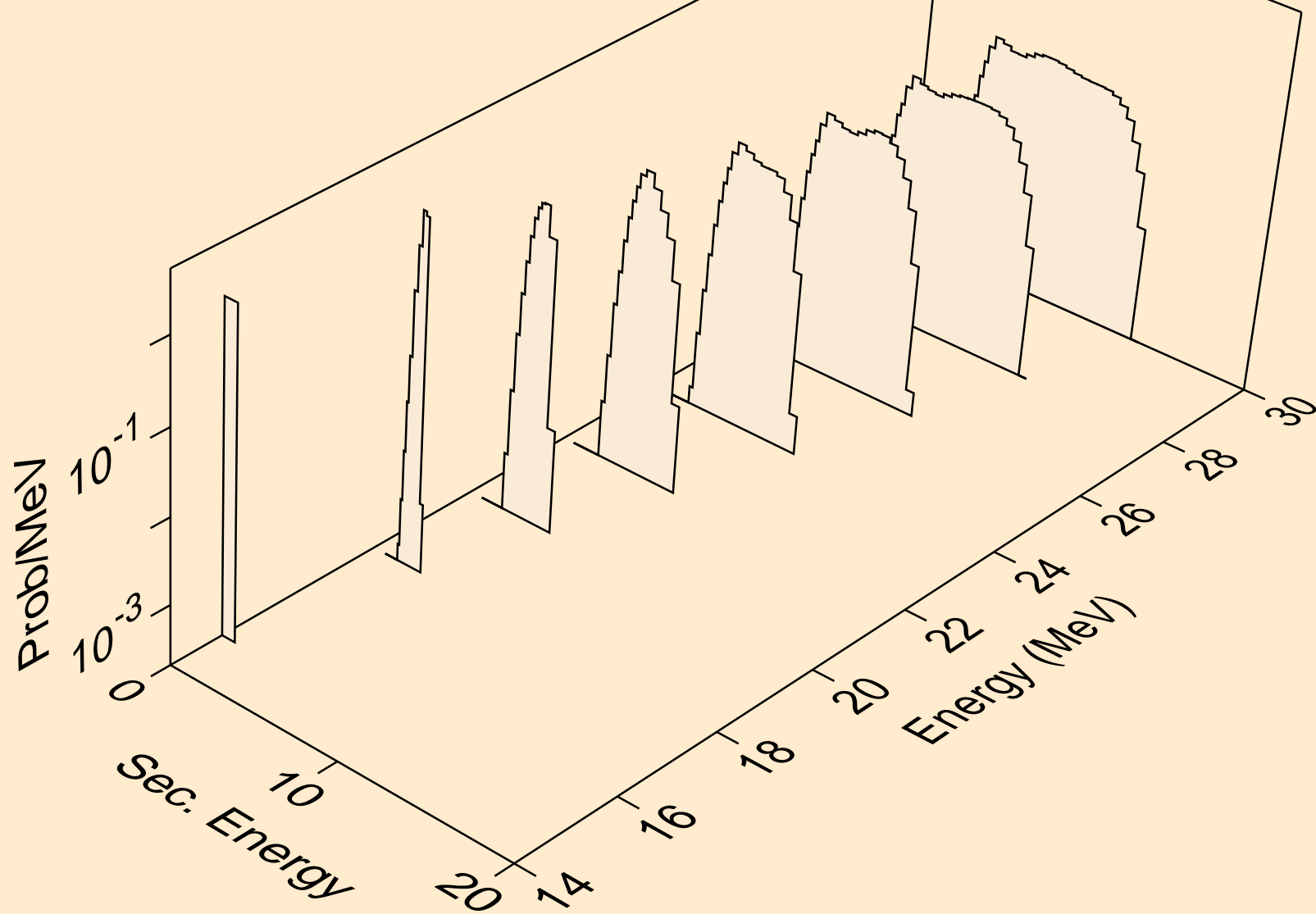
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alphas from (n,x)



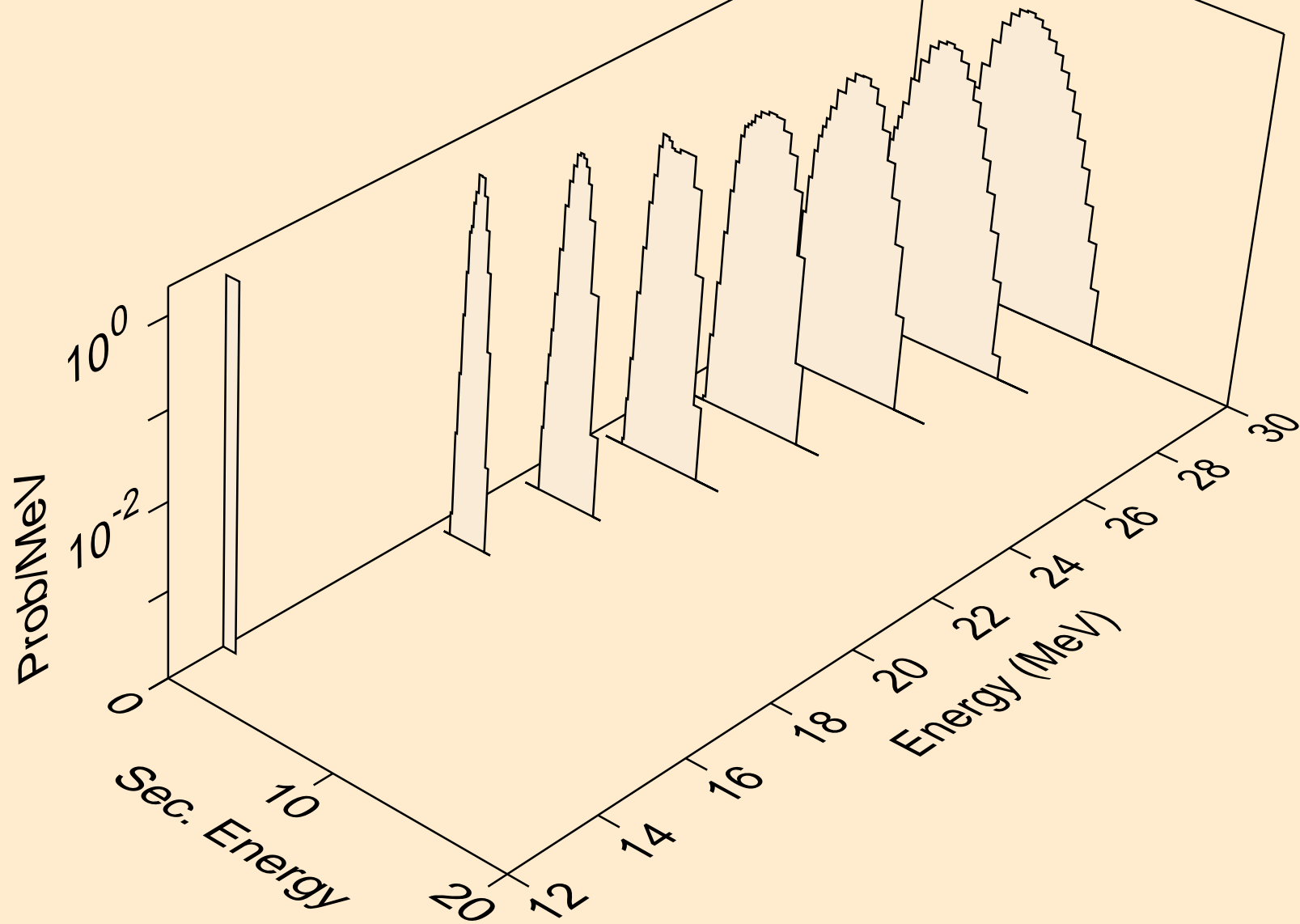
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alphas from (n,n\*)a



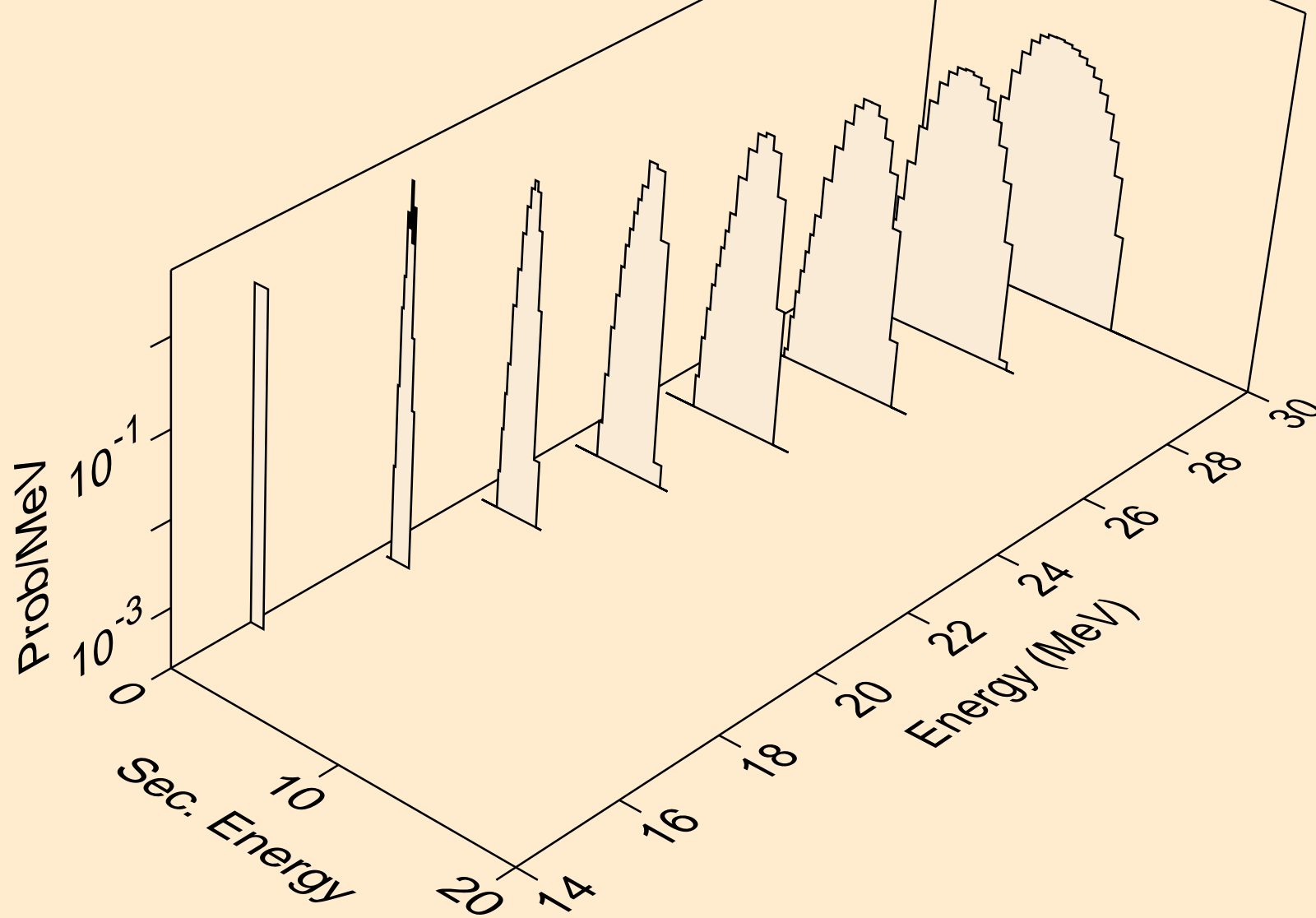
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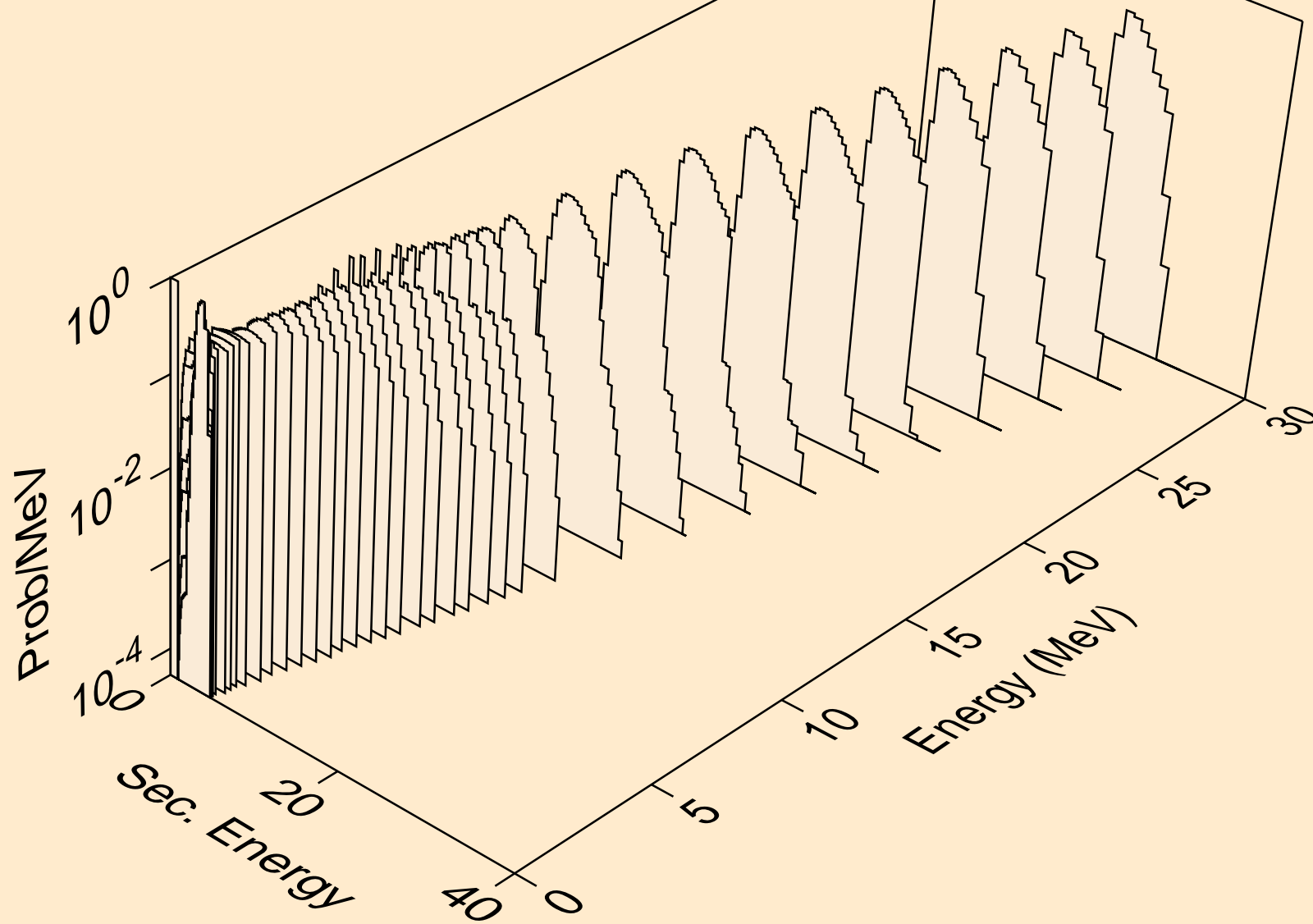
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alphas from (n,n\*)2a



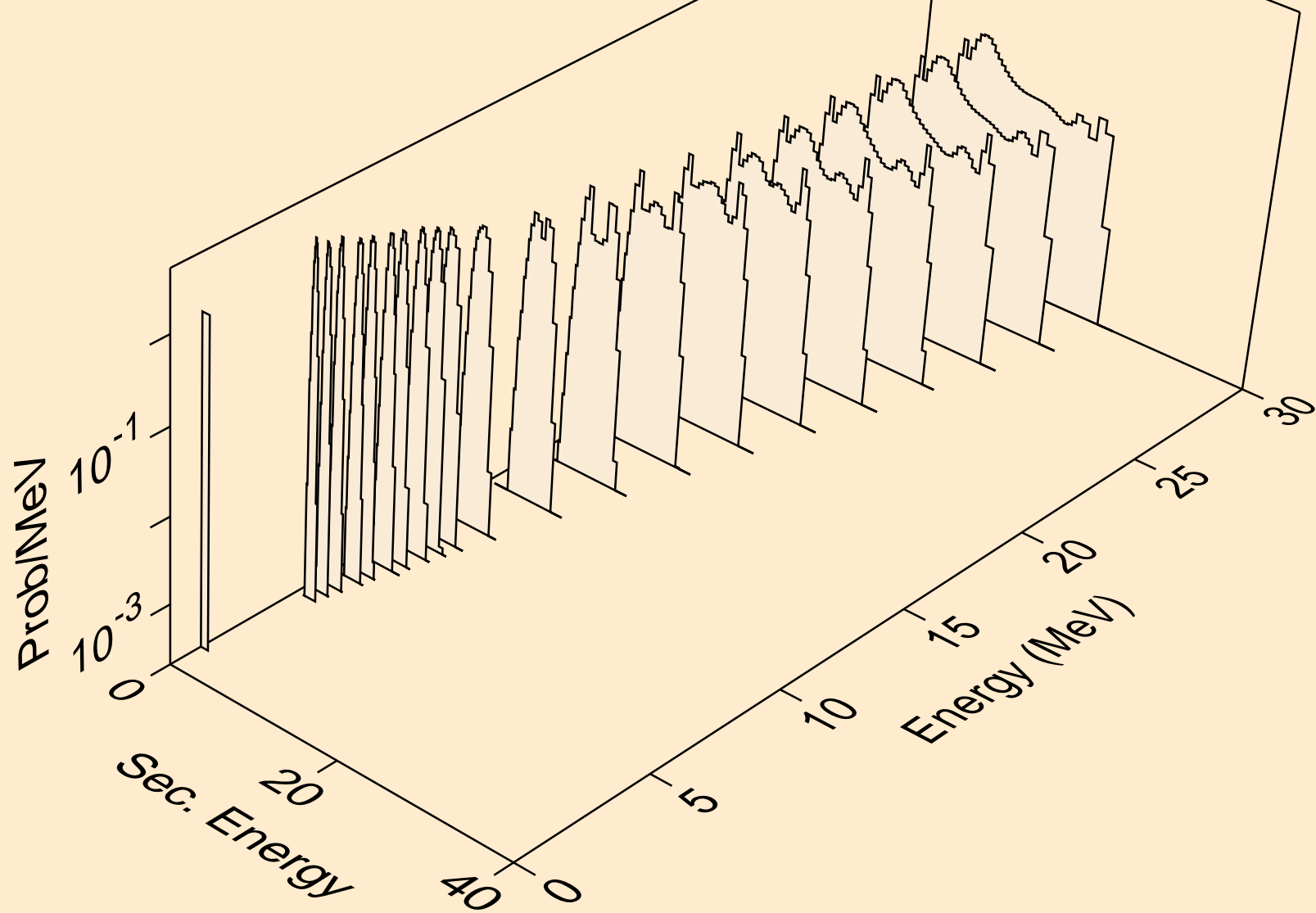
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alphas from (n,npa)



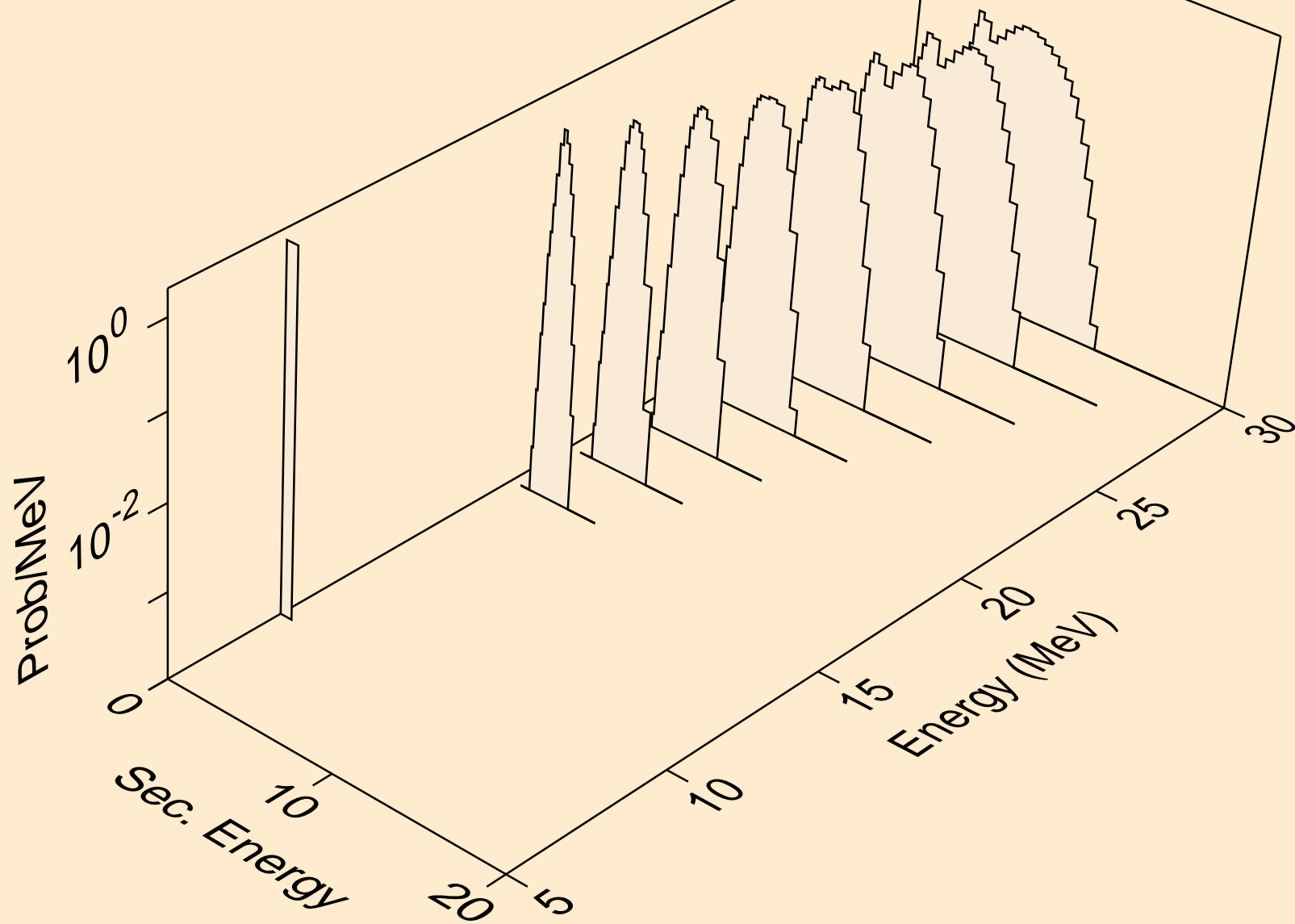
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alphas from (n,a)



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alphas from (n,2a)

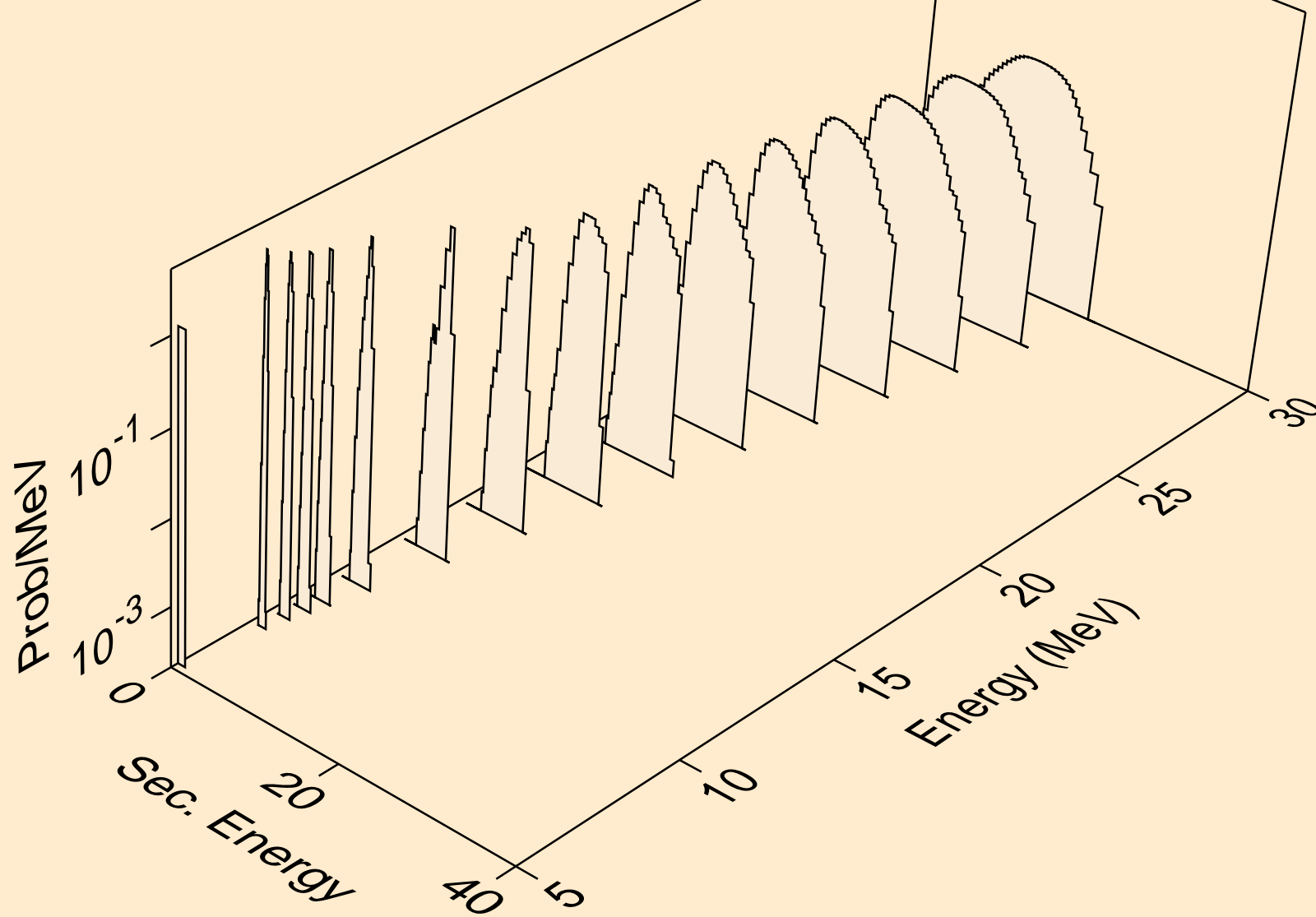


TI045 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,3a)





TI045 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,pa)



TI045 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,da)

