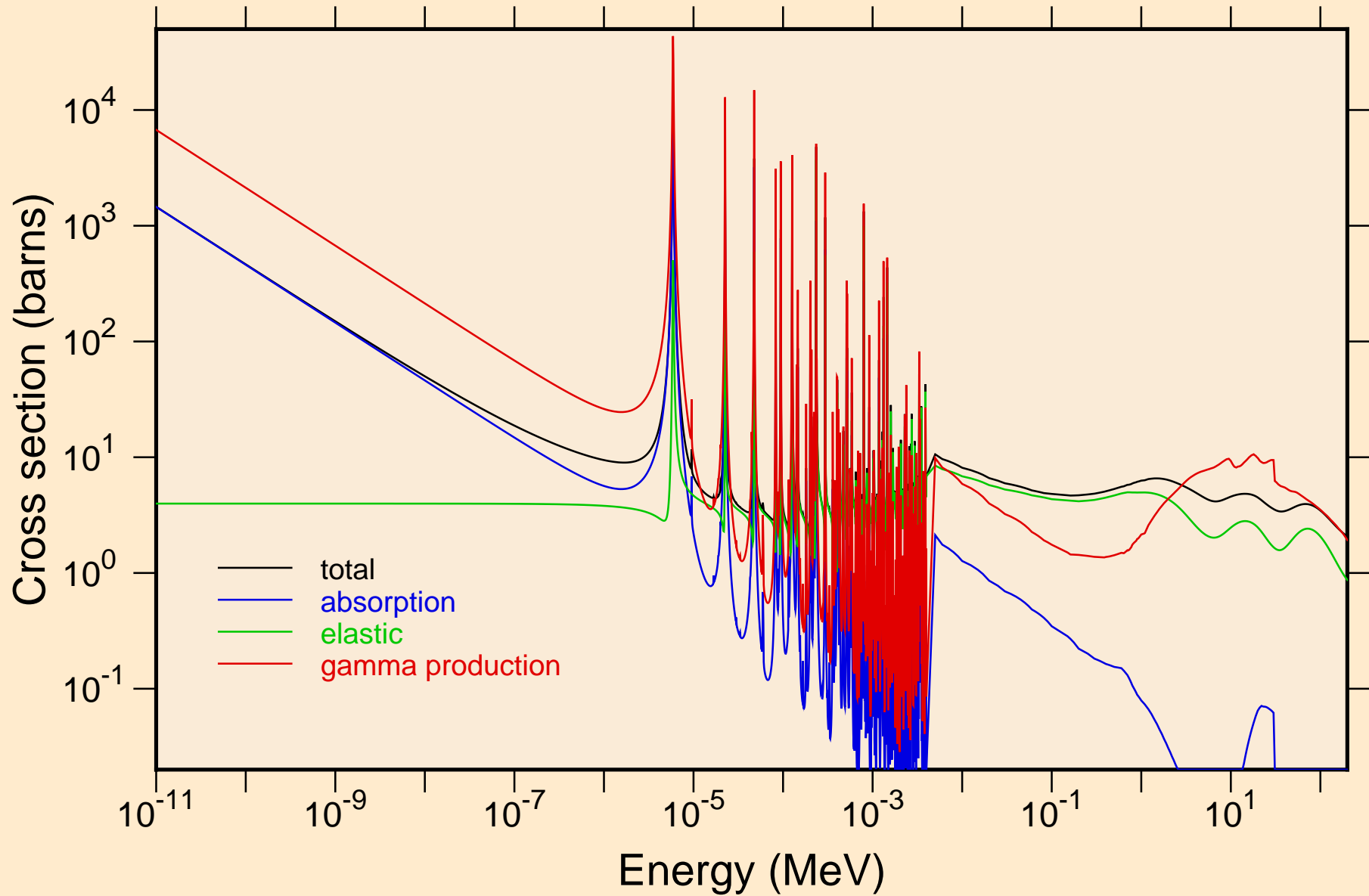
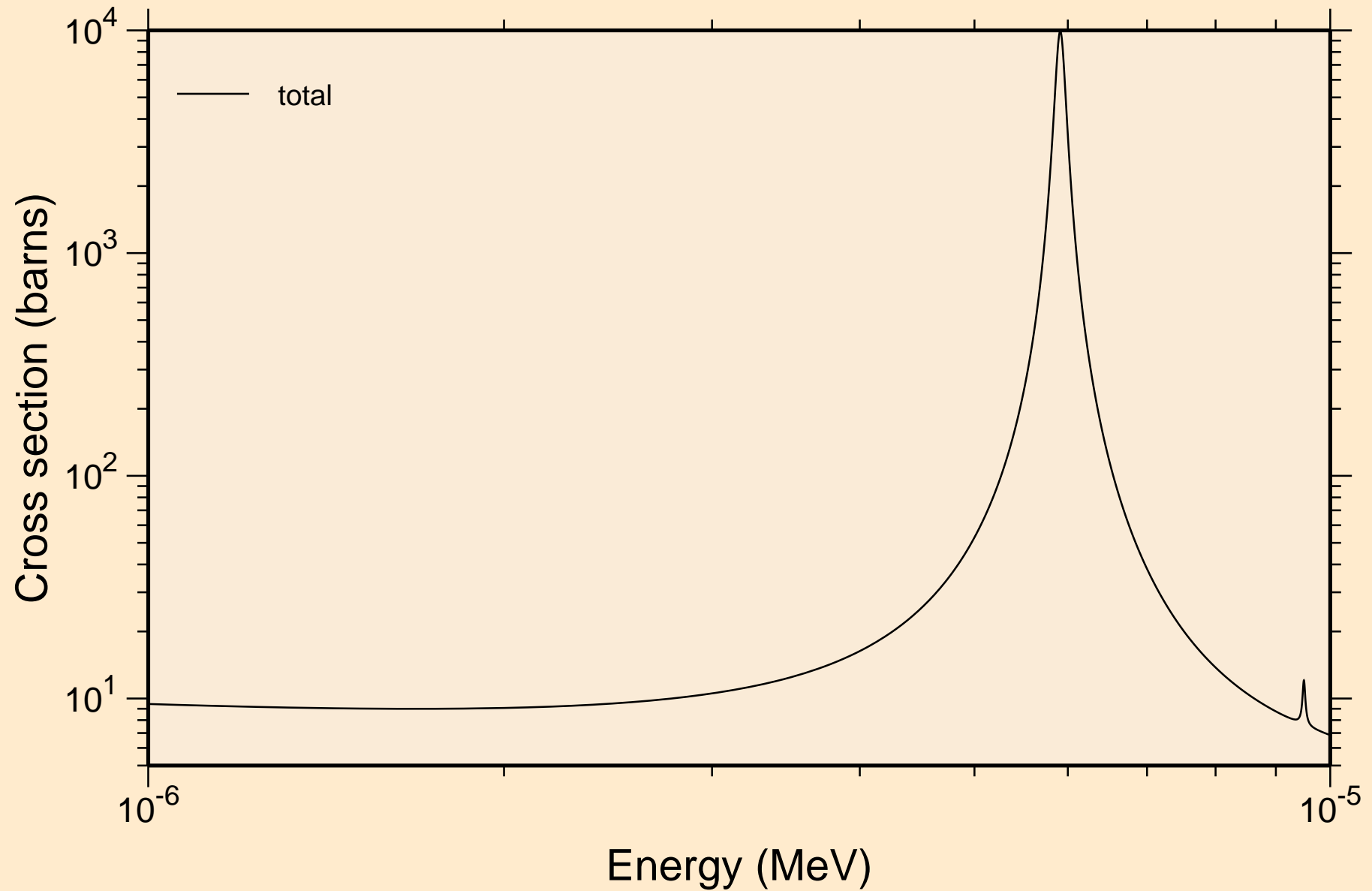


# CS133 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

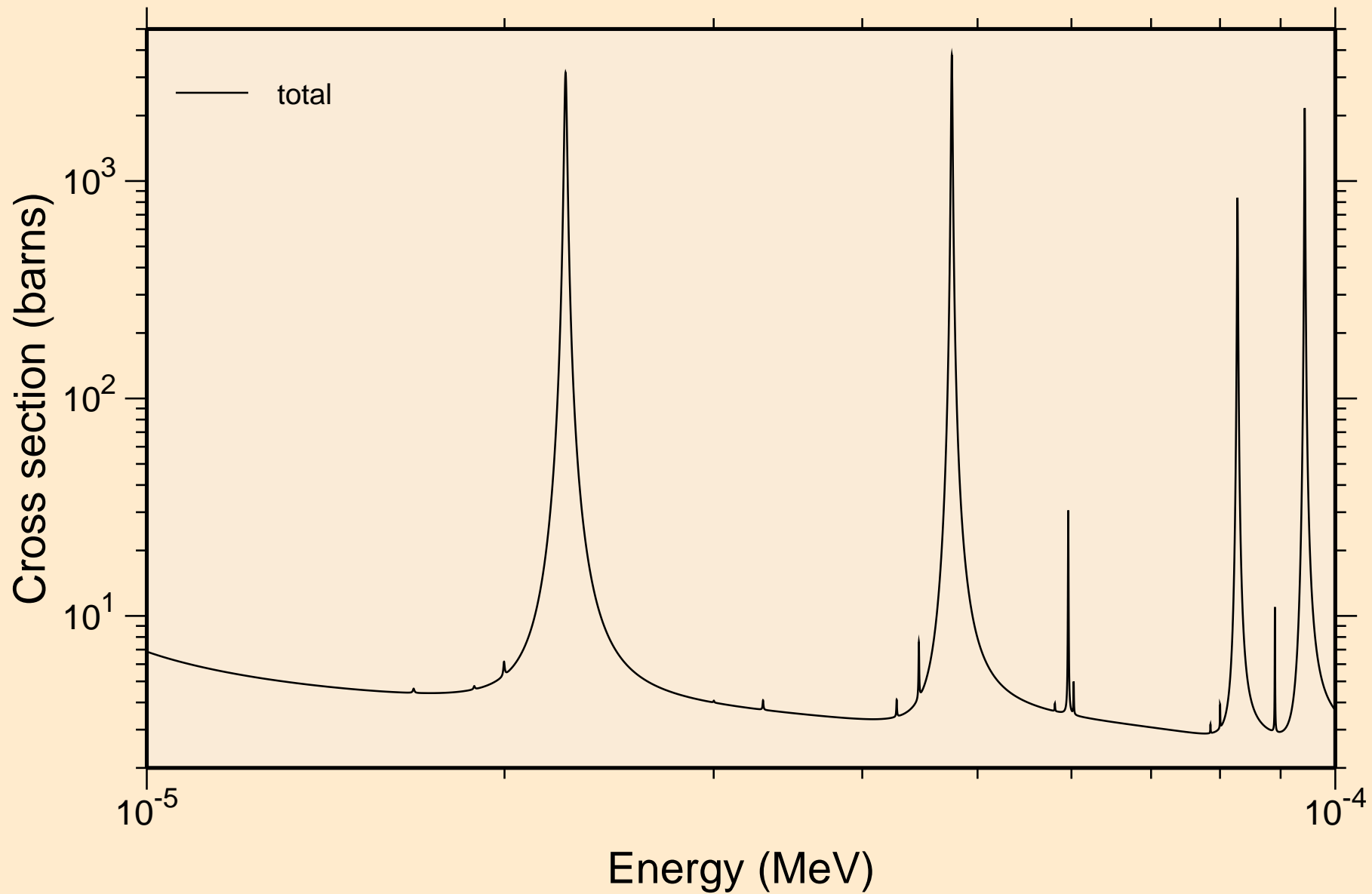
## Principal cross sections



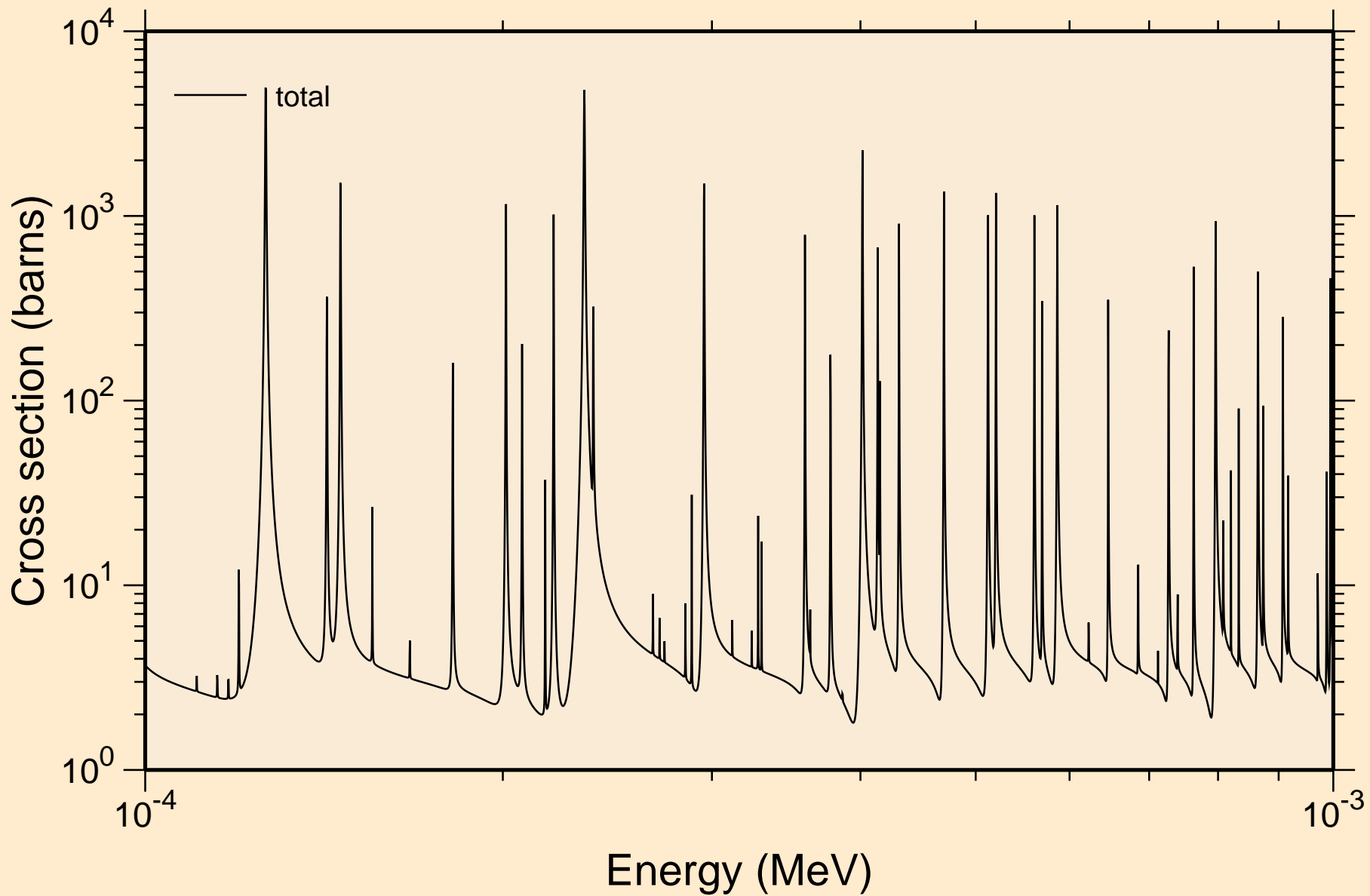
CS133 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
resonance total cross section



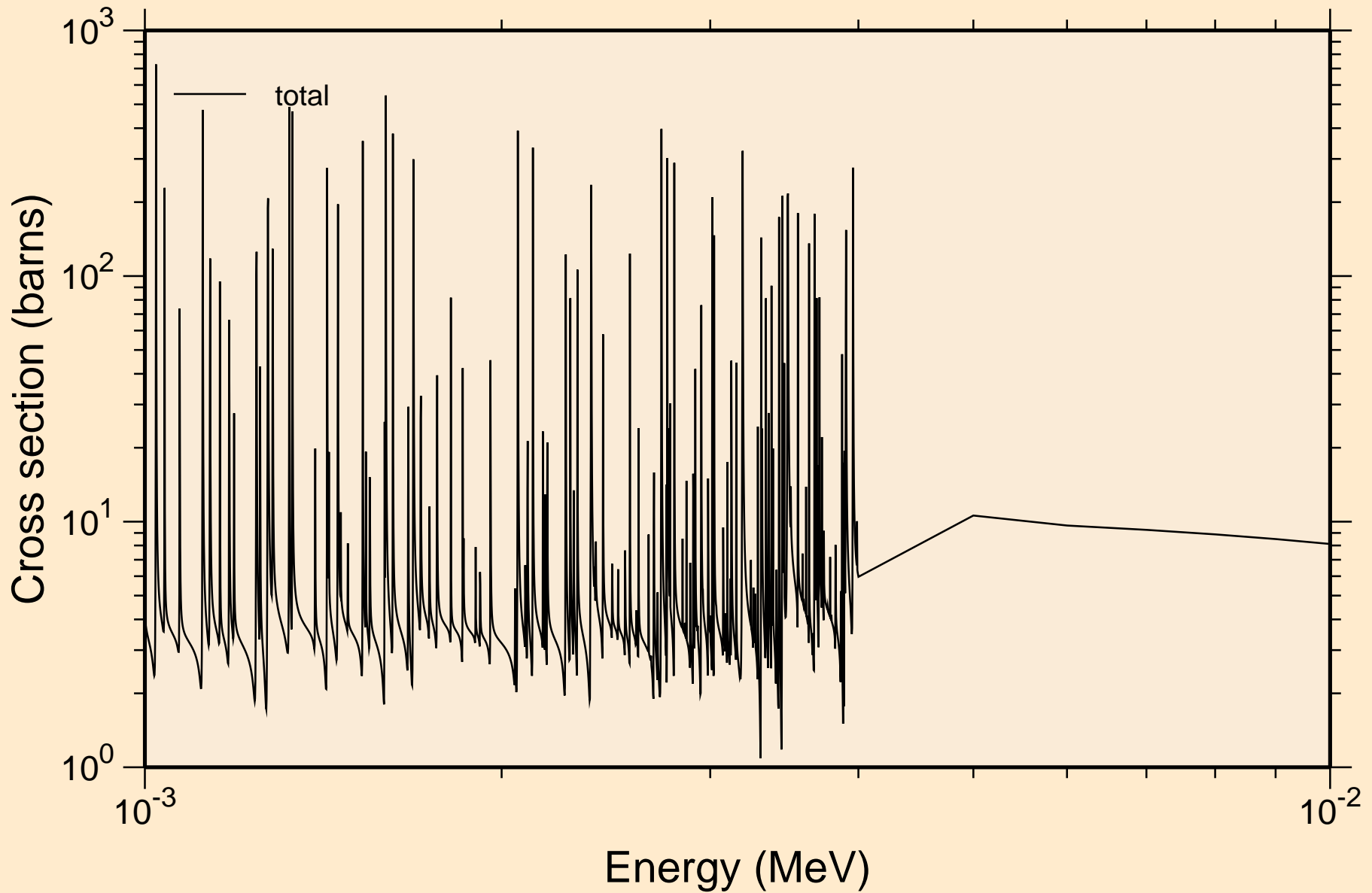
CS133 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
resonance total cross section



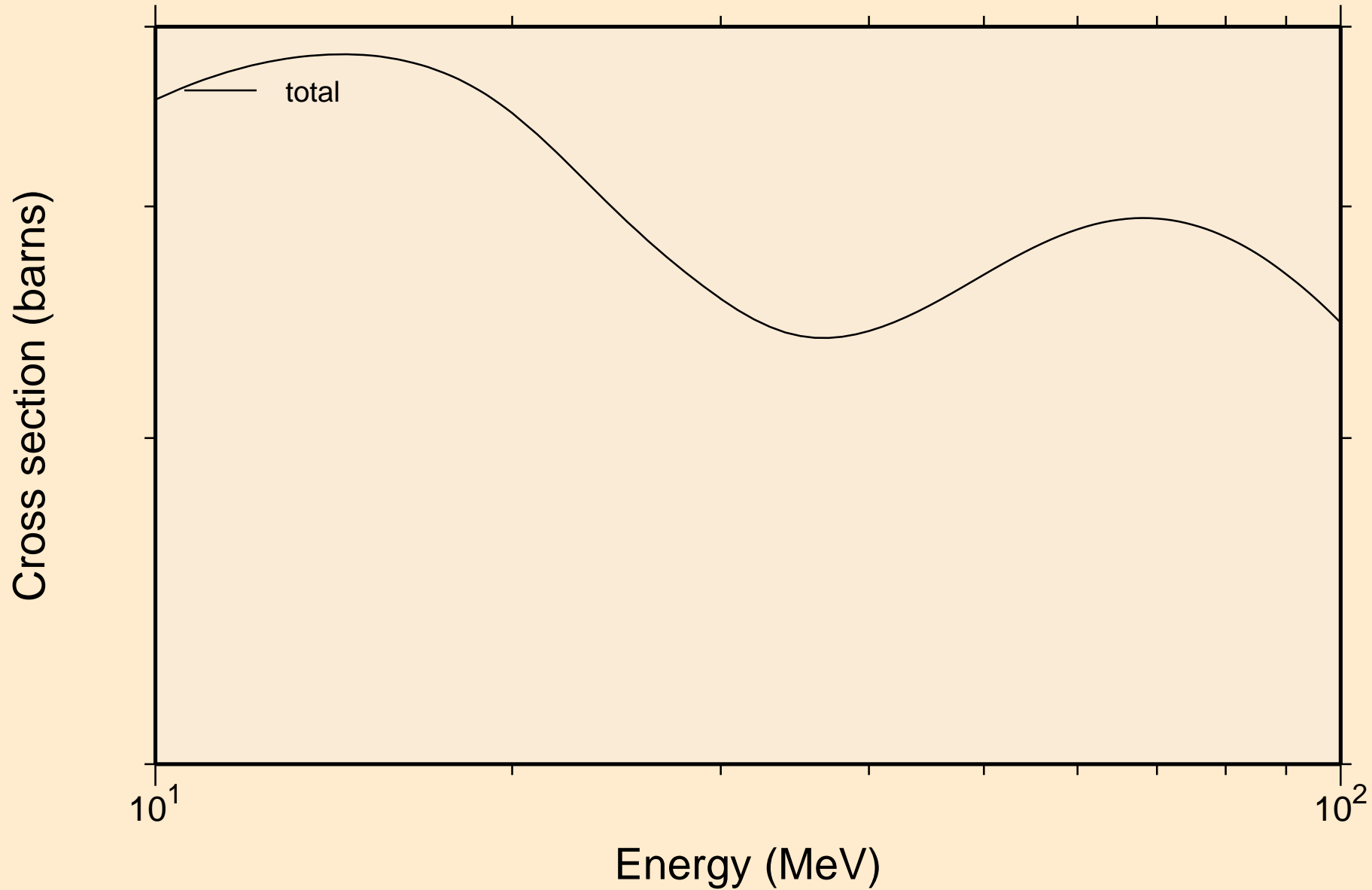
CS133 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
resonance total cross section



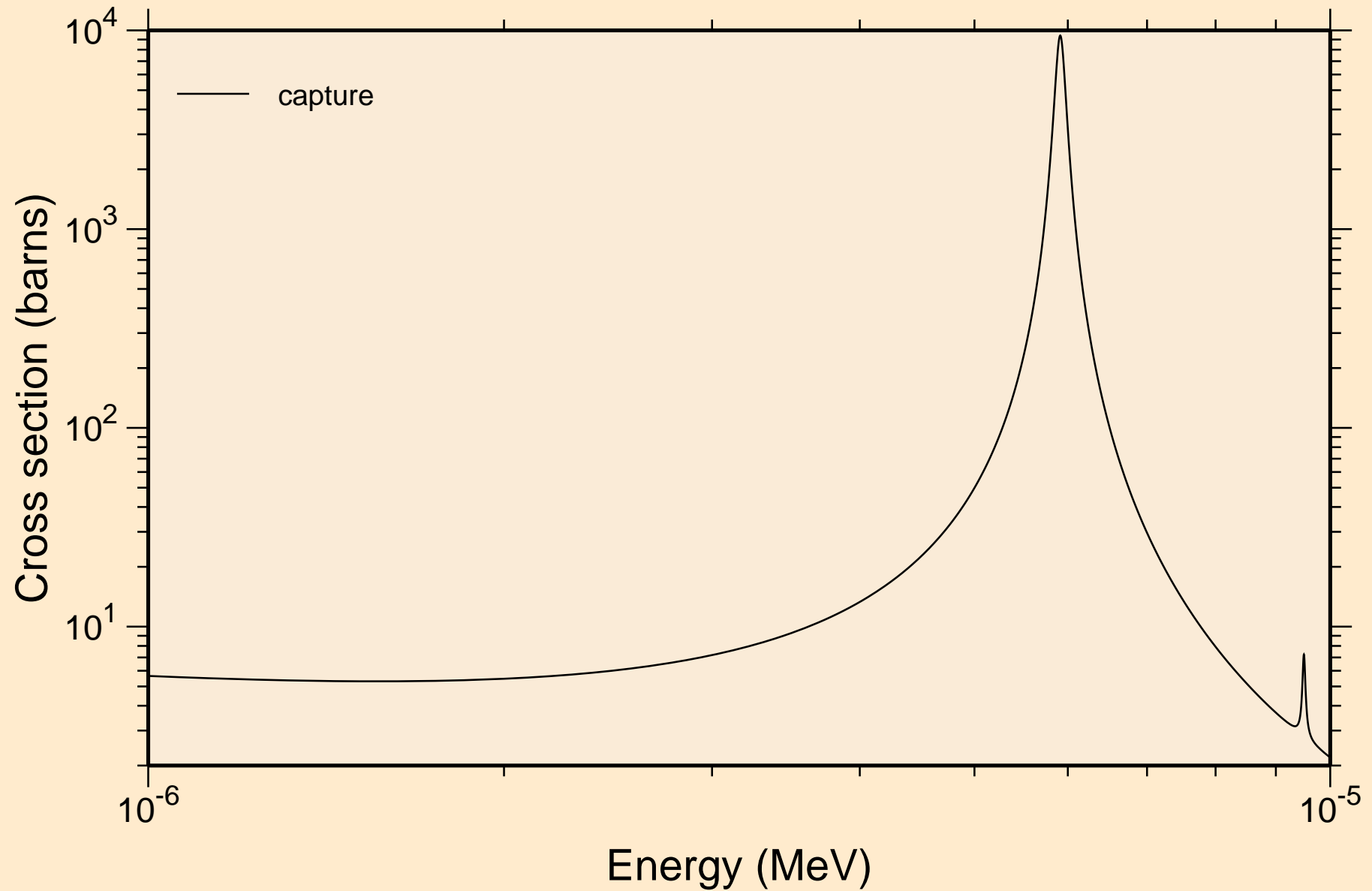
CS133 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
resonance total cross section



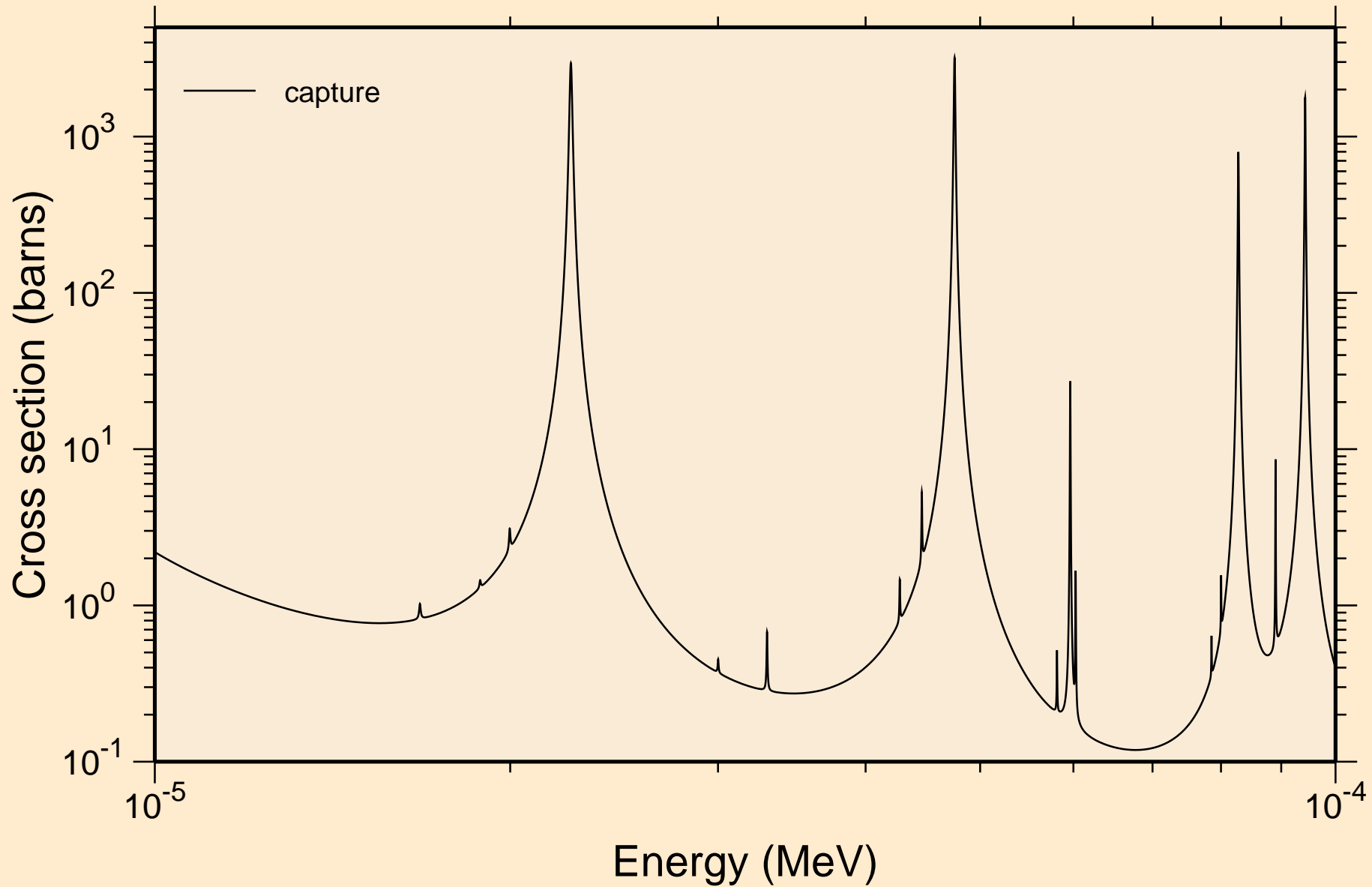
C<sup>133</sup> NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
resonance total cross section



CS133 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
resonance absorption cross sections

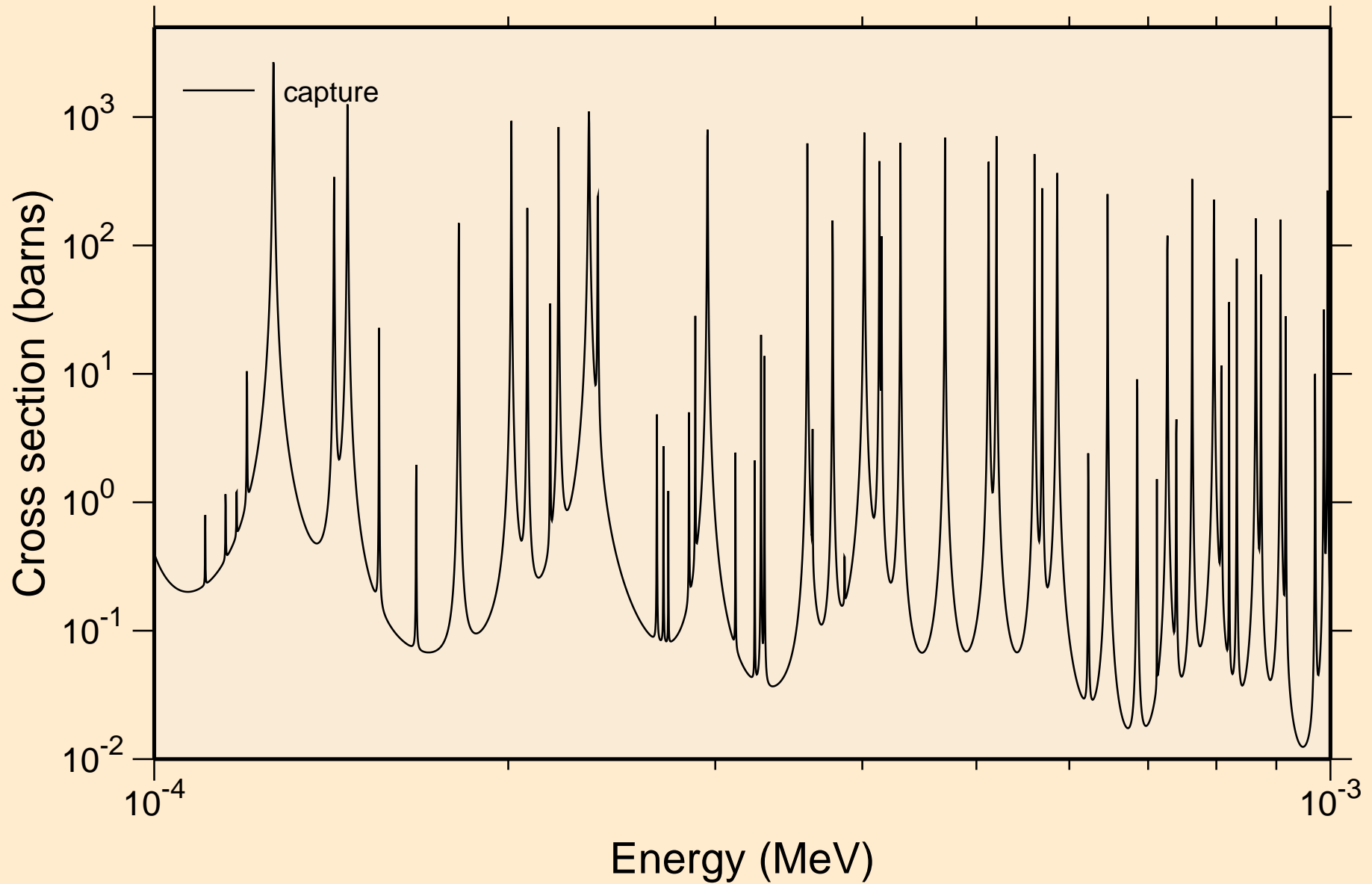


CS133 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
resonance absorption cross sections

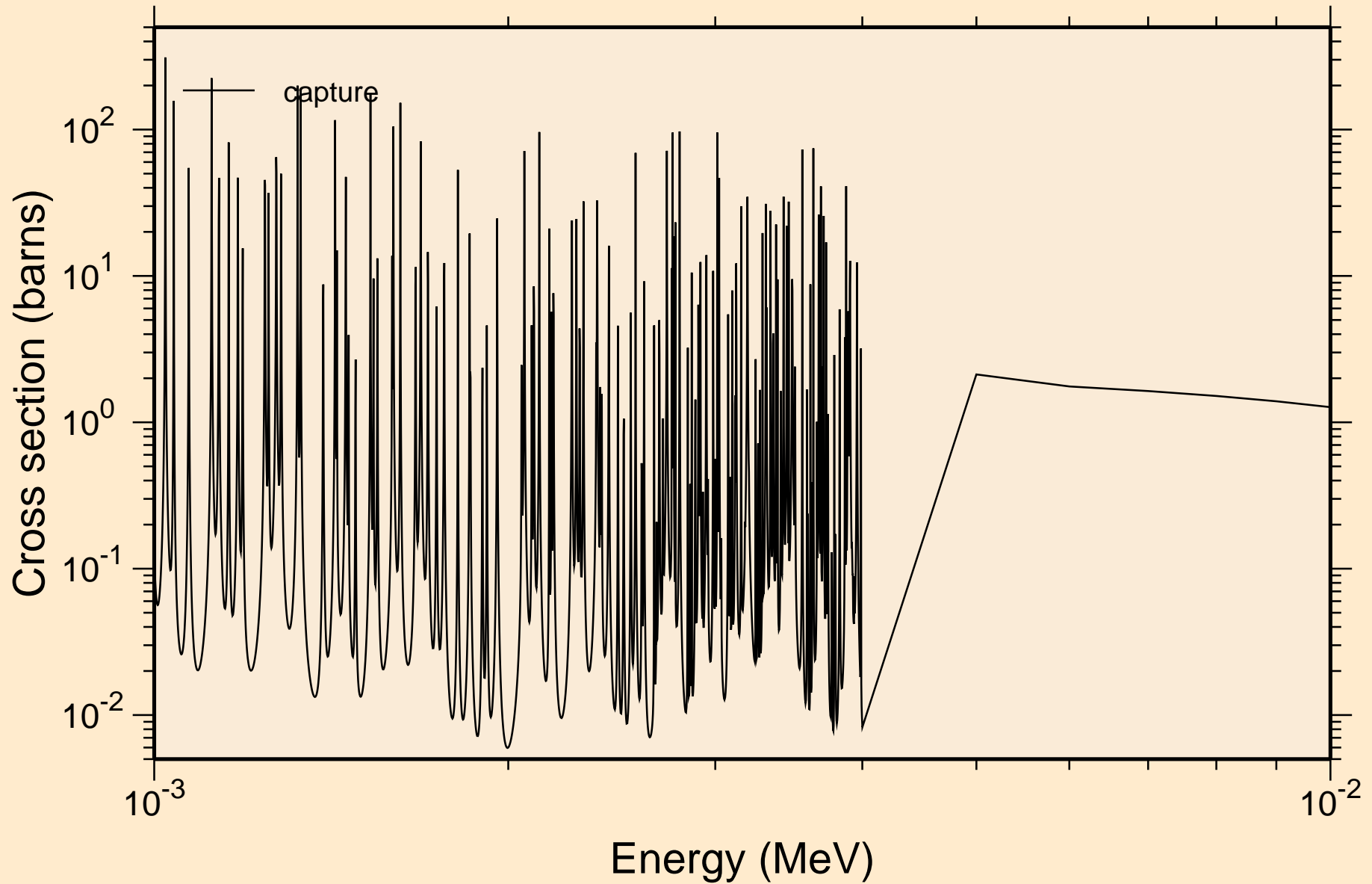




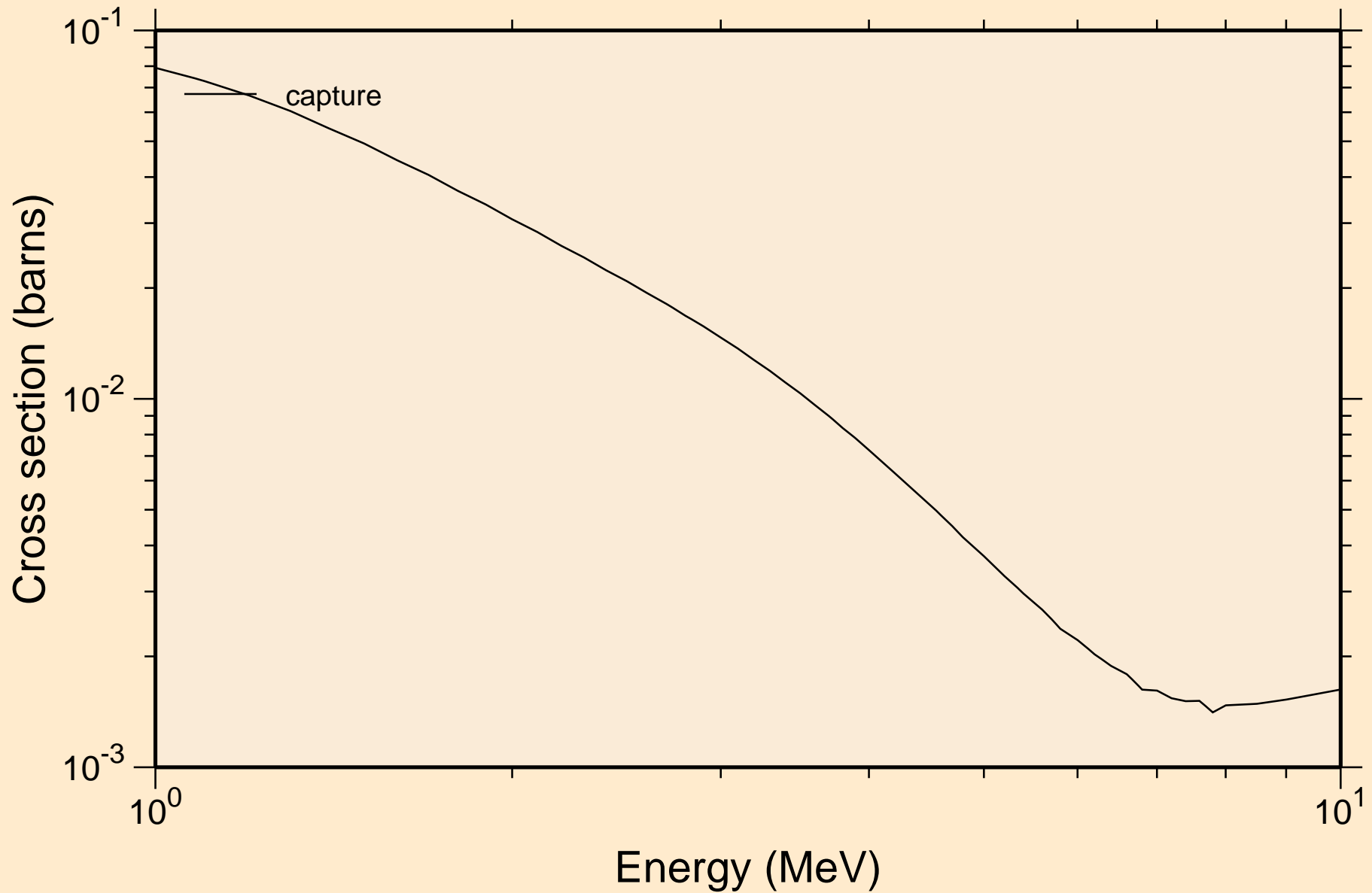
CS133 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
resonance absorption cross sections



CS133 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
resonance absorption cross sections

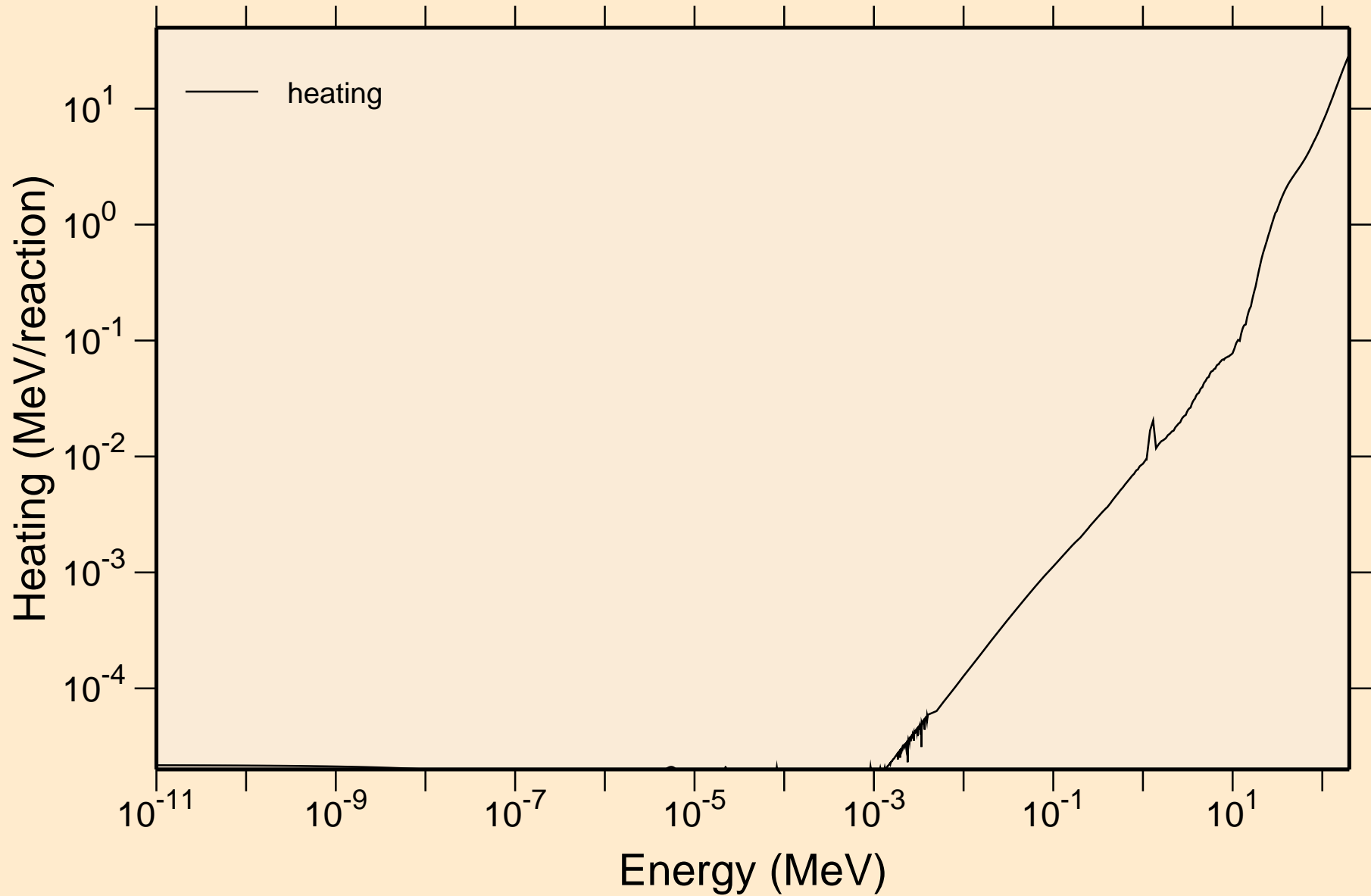


CS133 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
resonance absorption cross sections



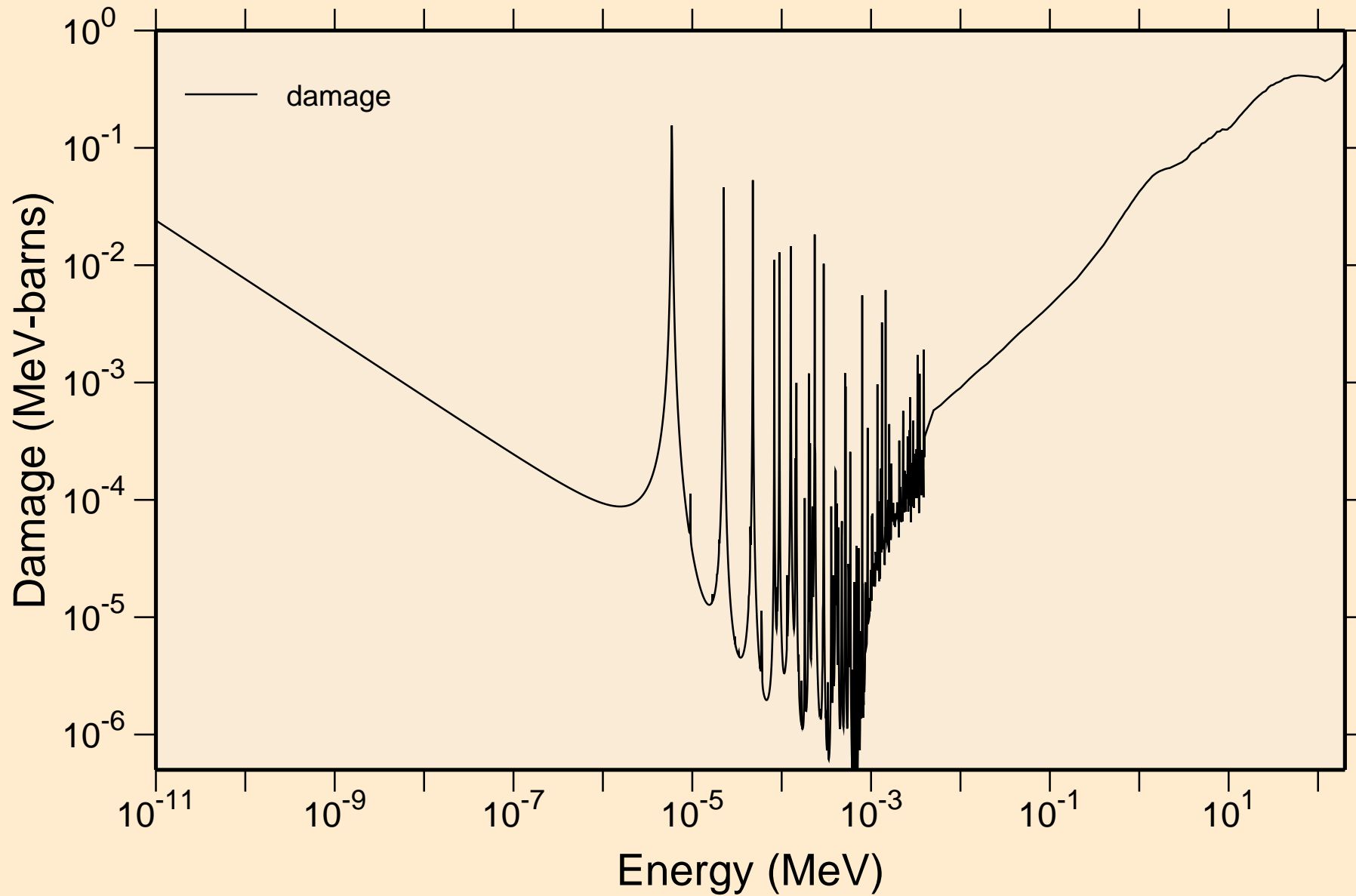
# CS133 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

## Heating



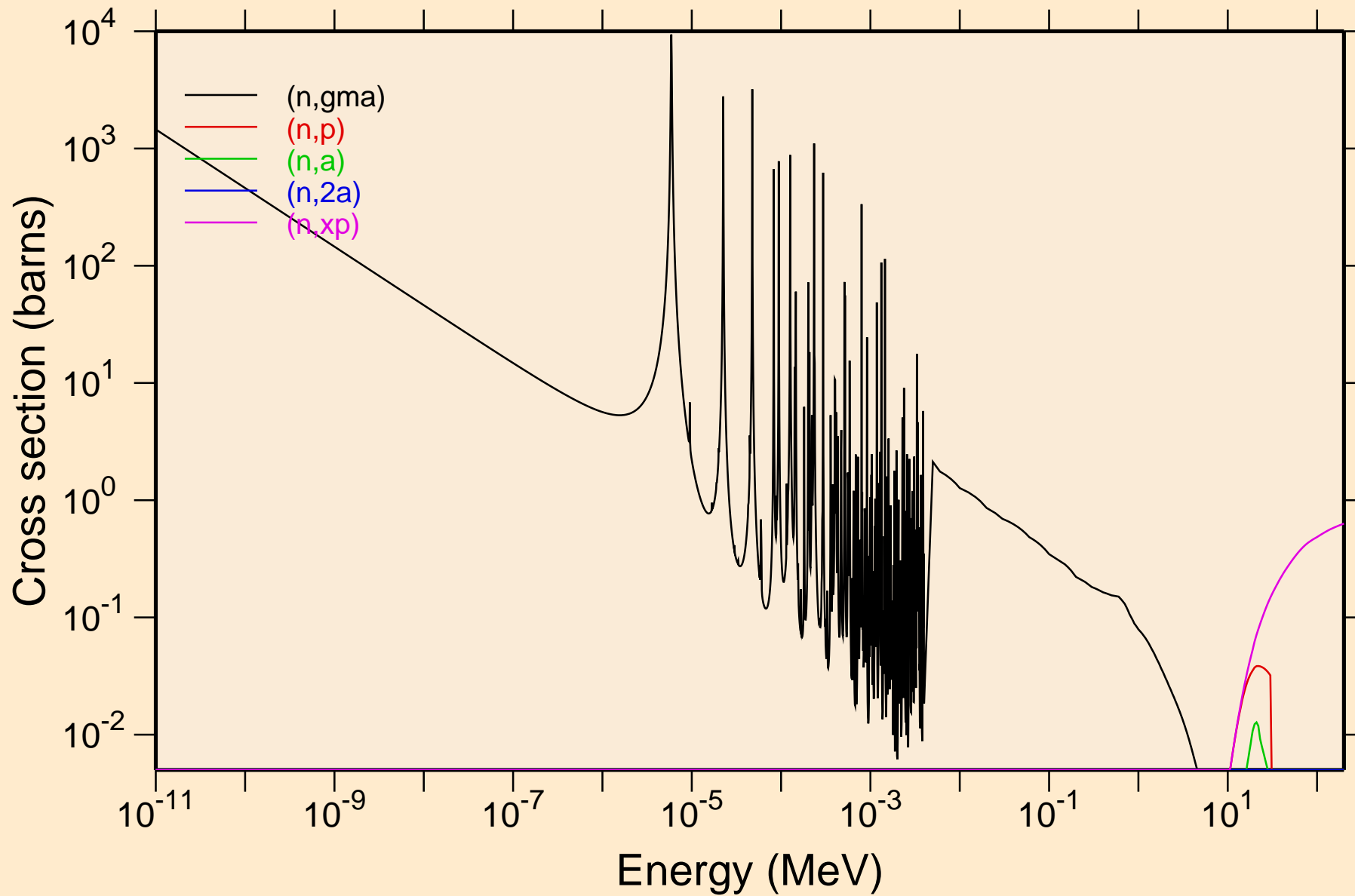
# CS133 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

## Damage

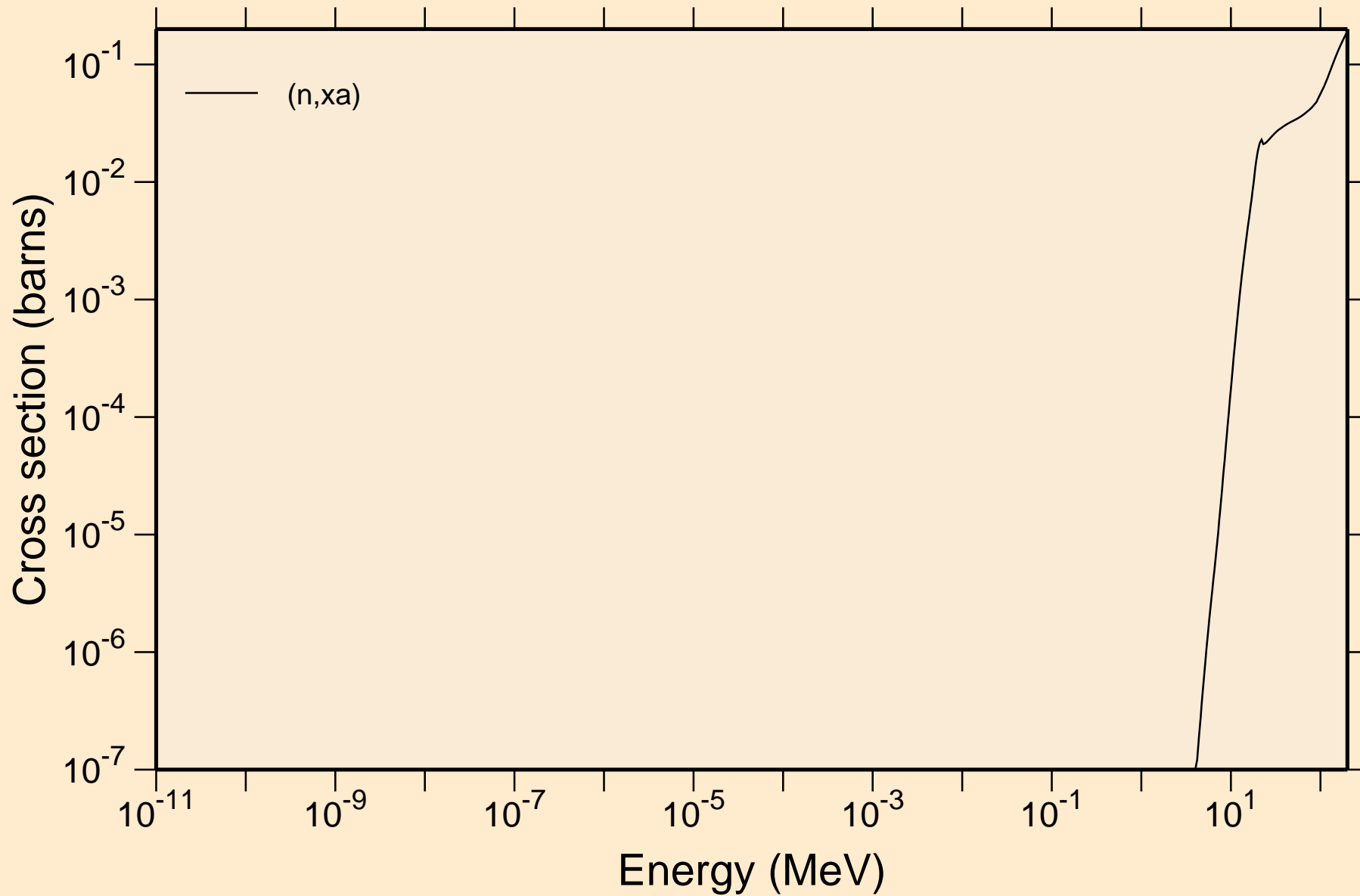


# CS133 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

## Non-threshold reactions

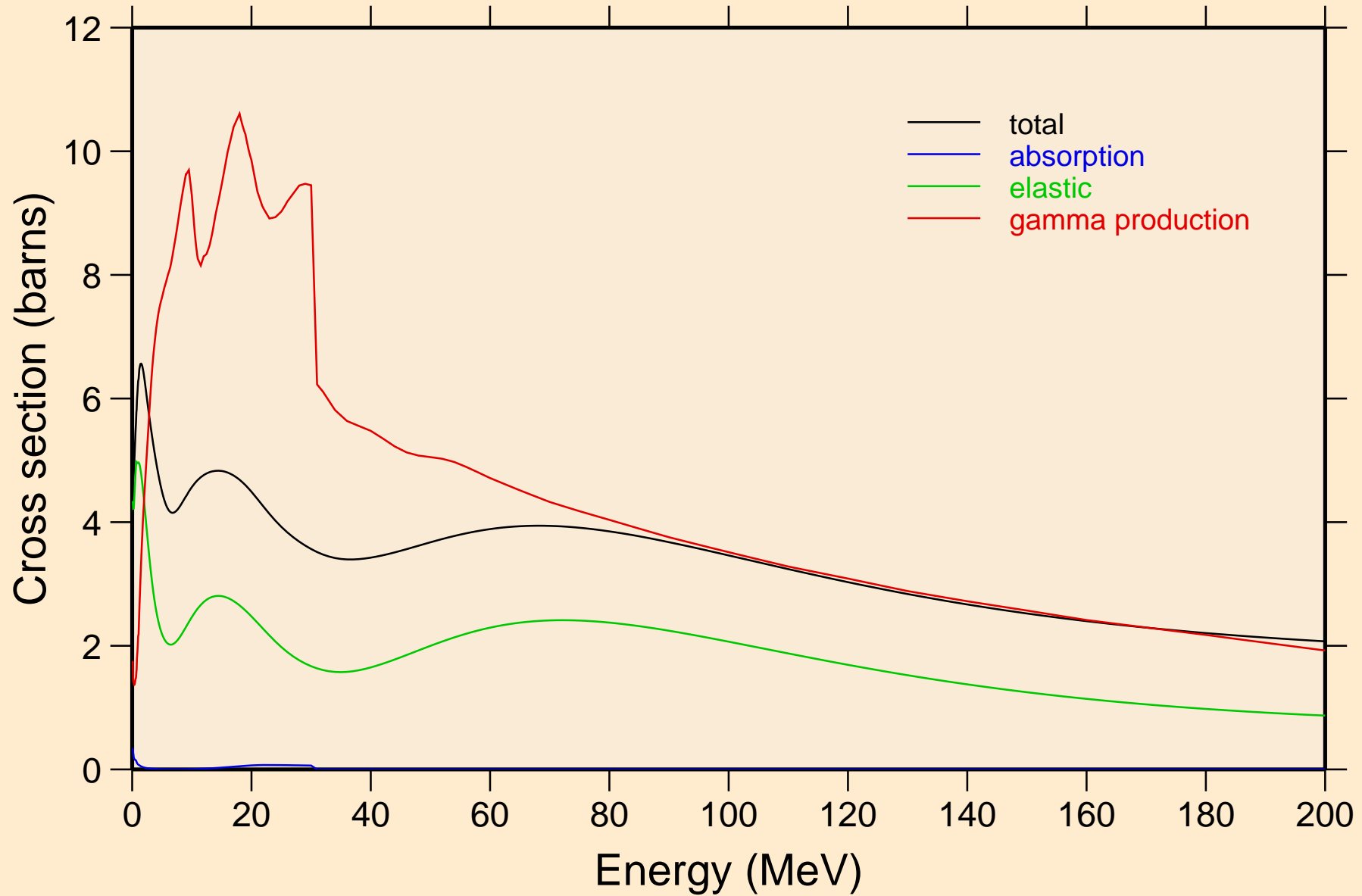


CS133 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Non-threshold reactions



# CS133 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

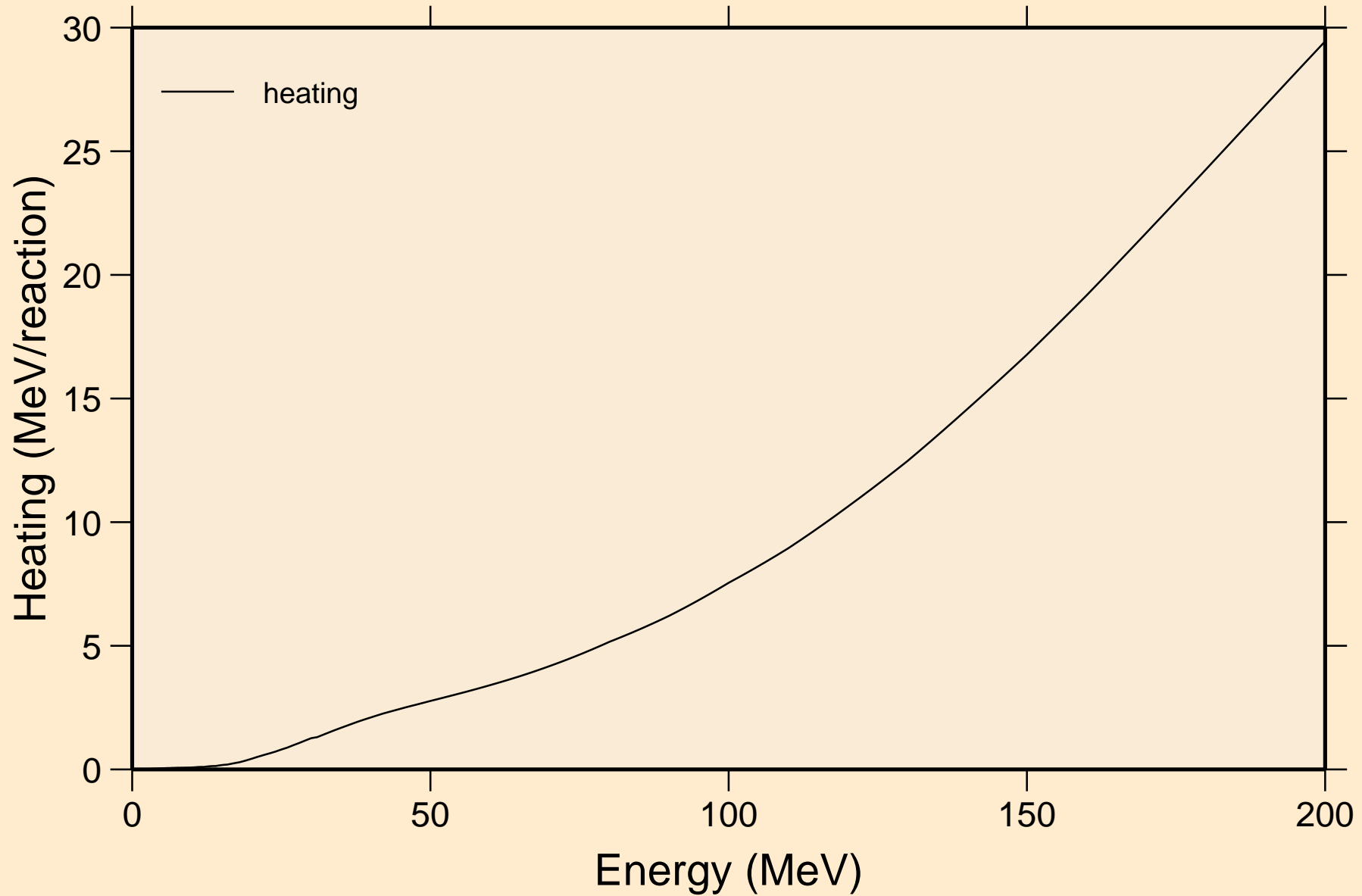
## Principal cross sections





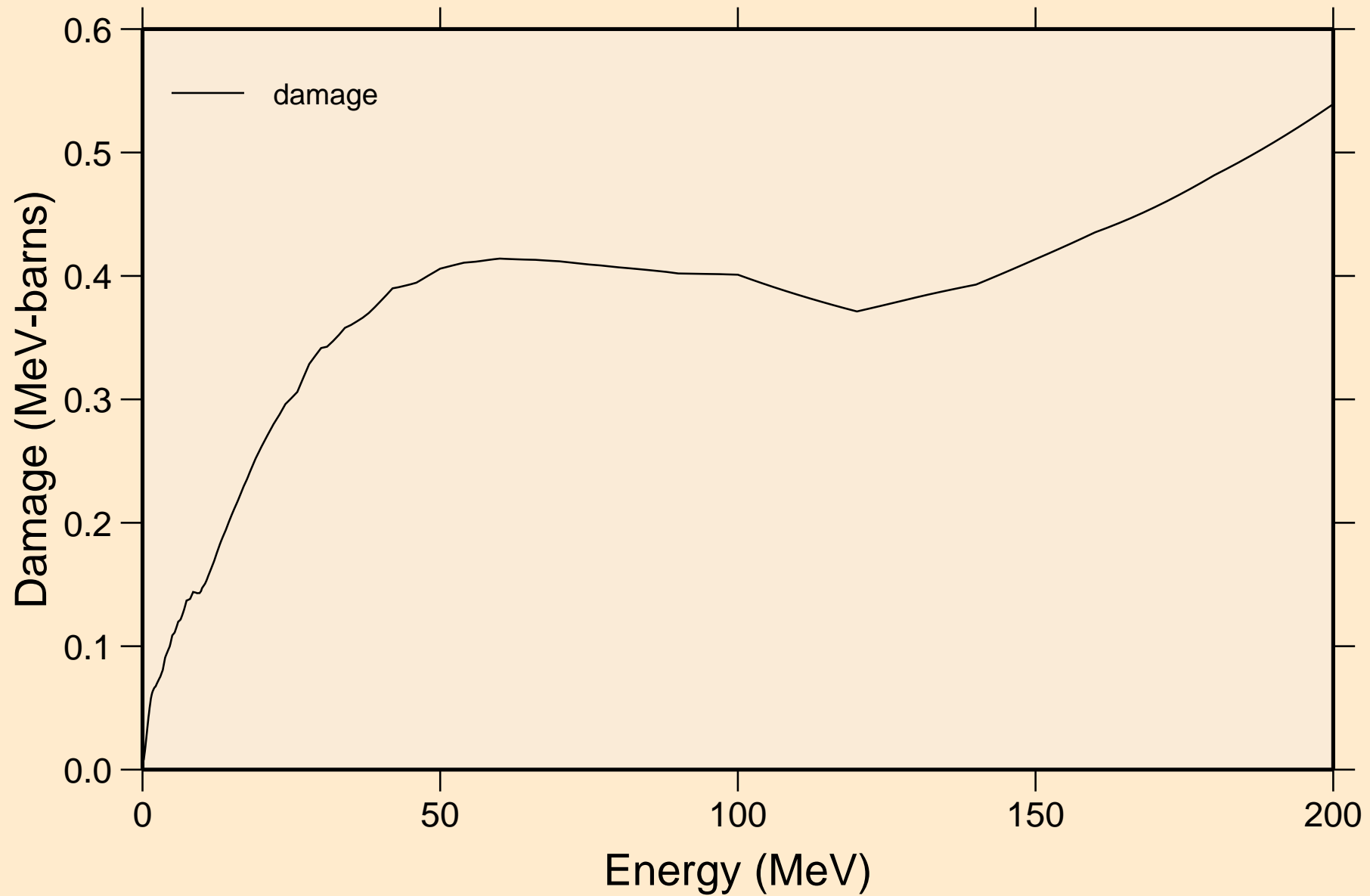
# CS133 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

## Heating



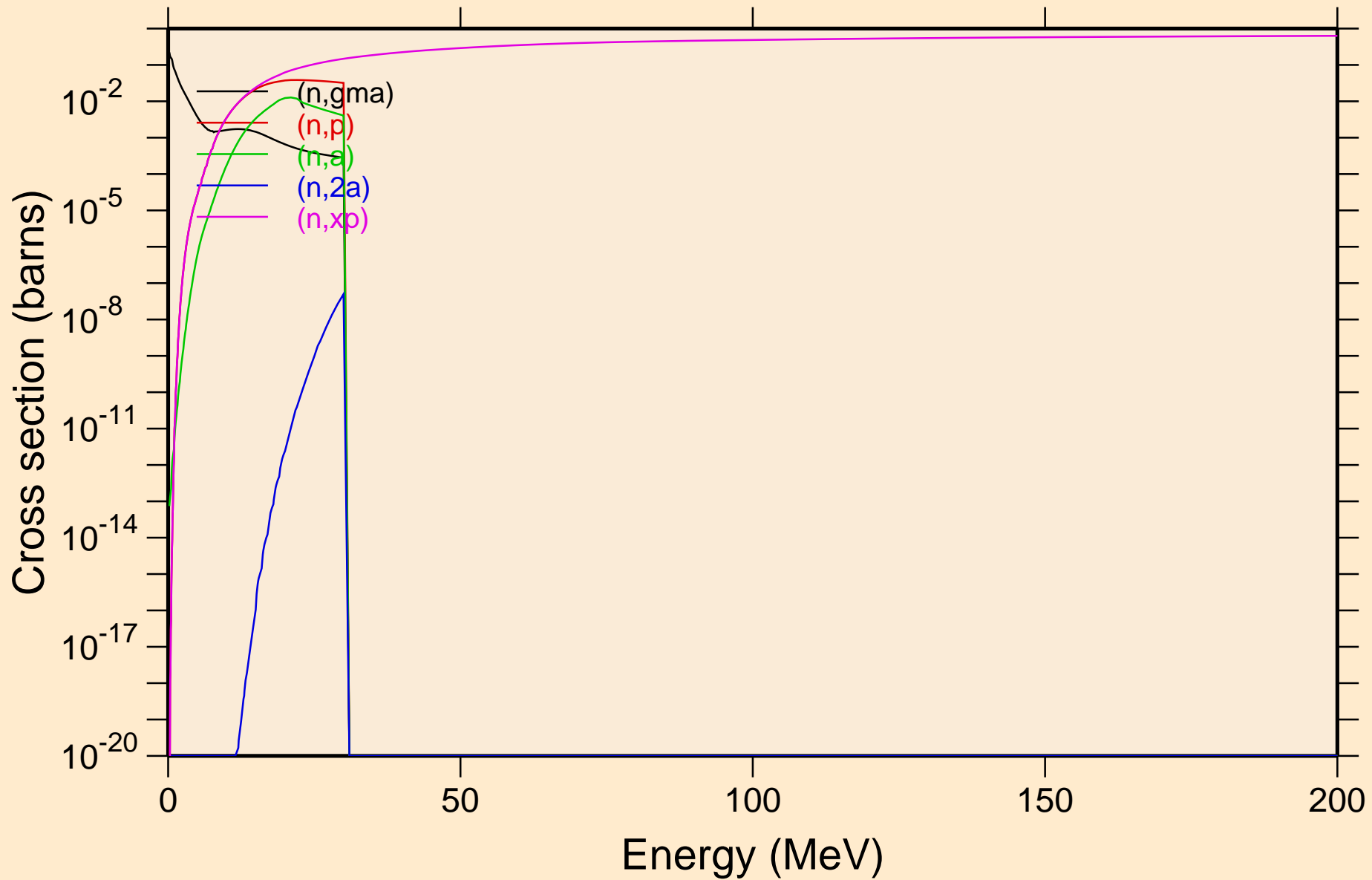
# CS133 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

## Damage

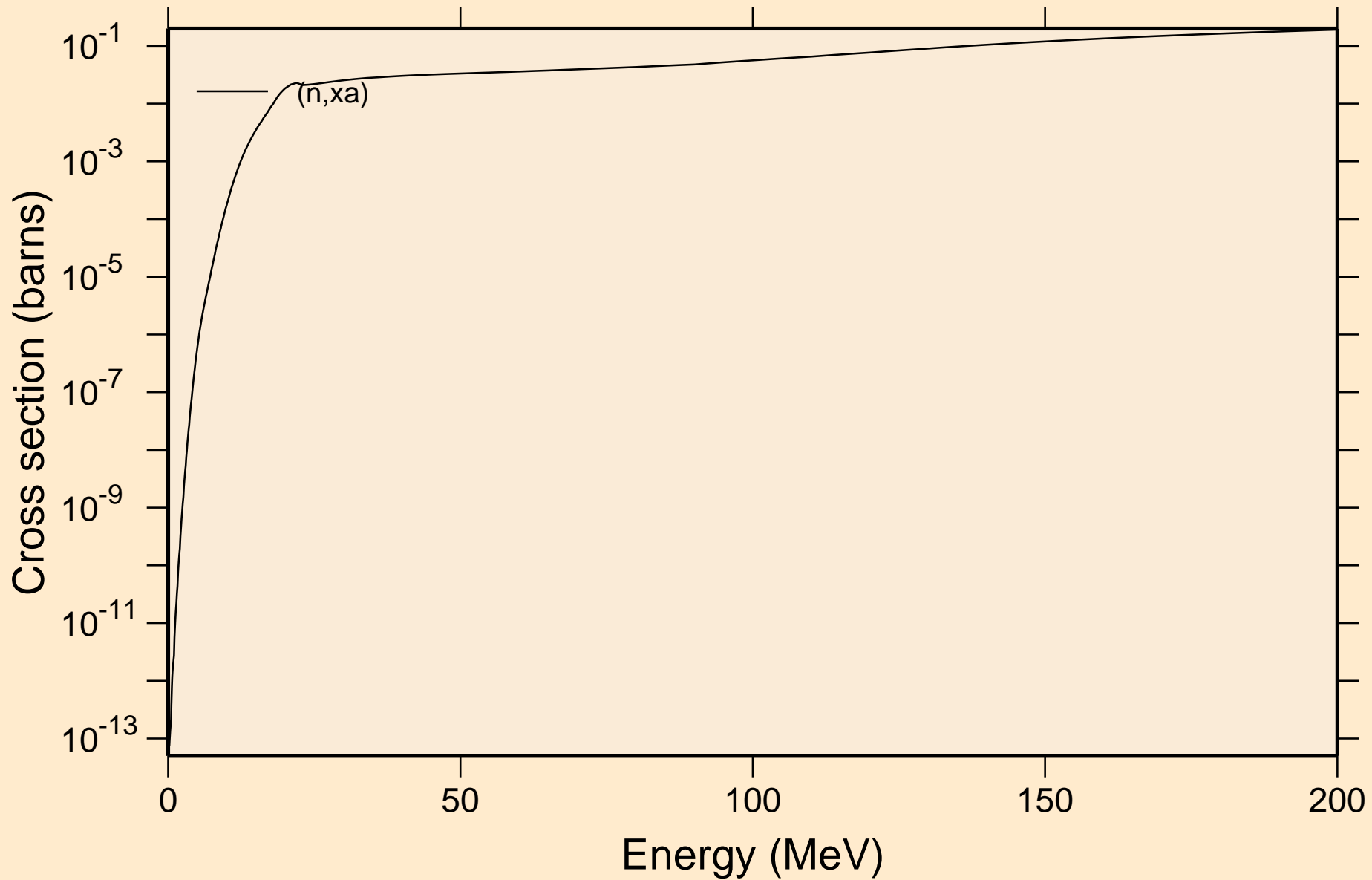


# CS133 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

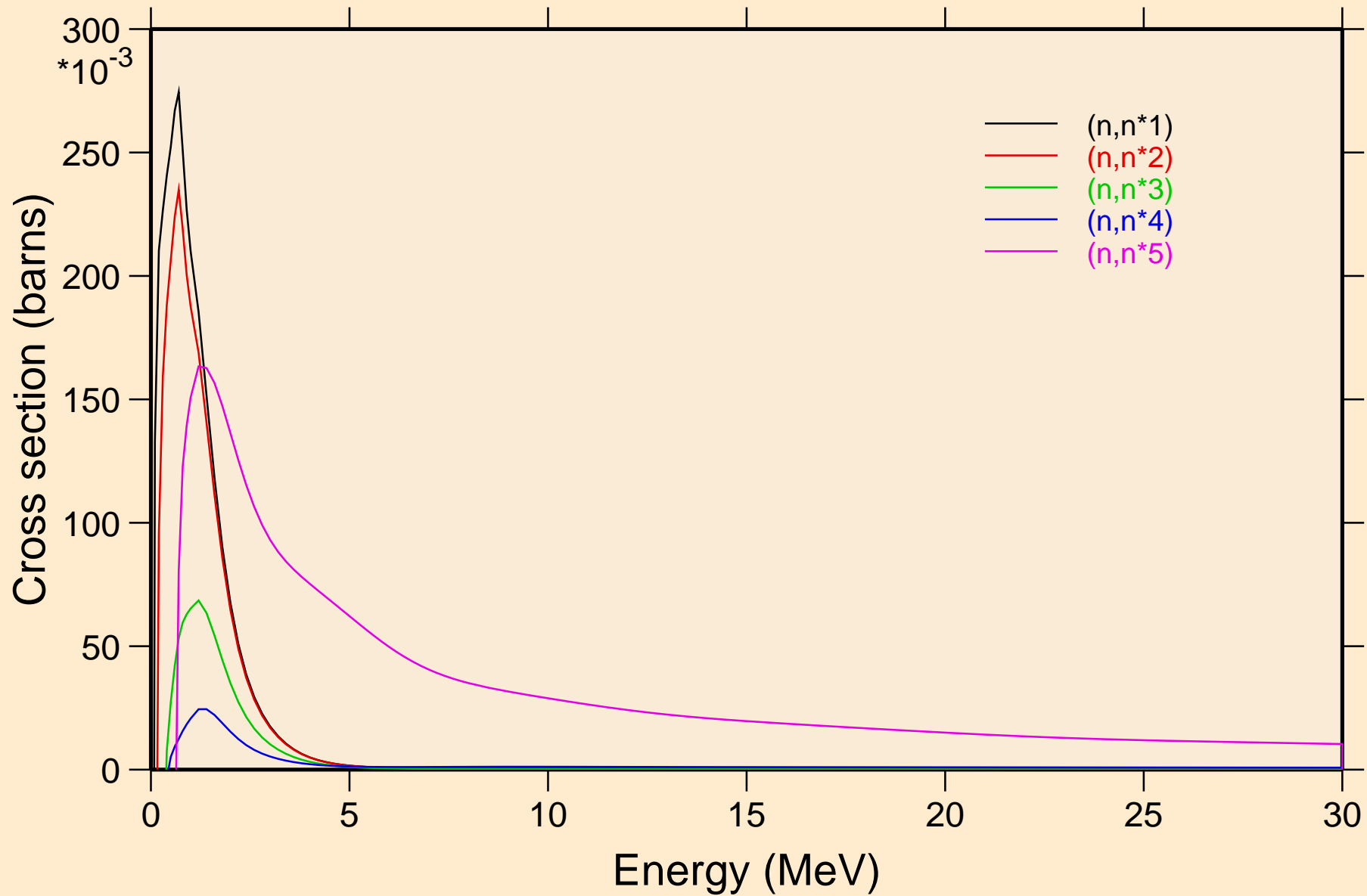
## Non-threshold reactions



CS133 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Non-threshold reactions

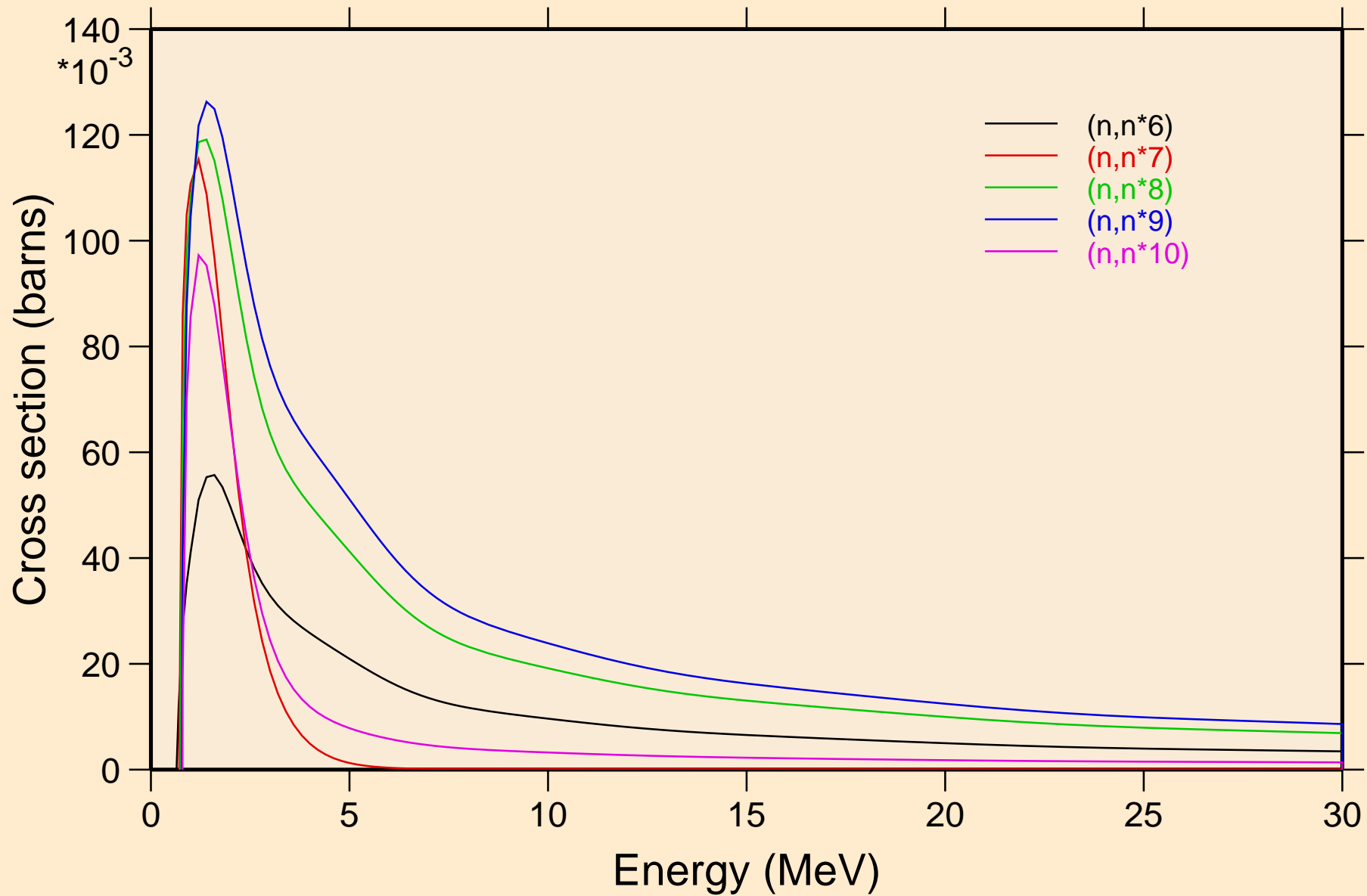


CS133 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Inelastic levels



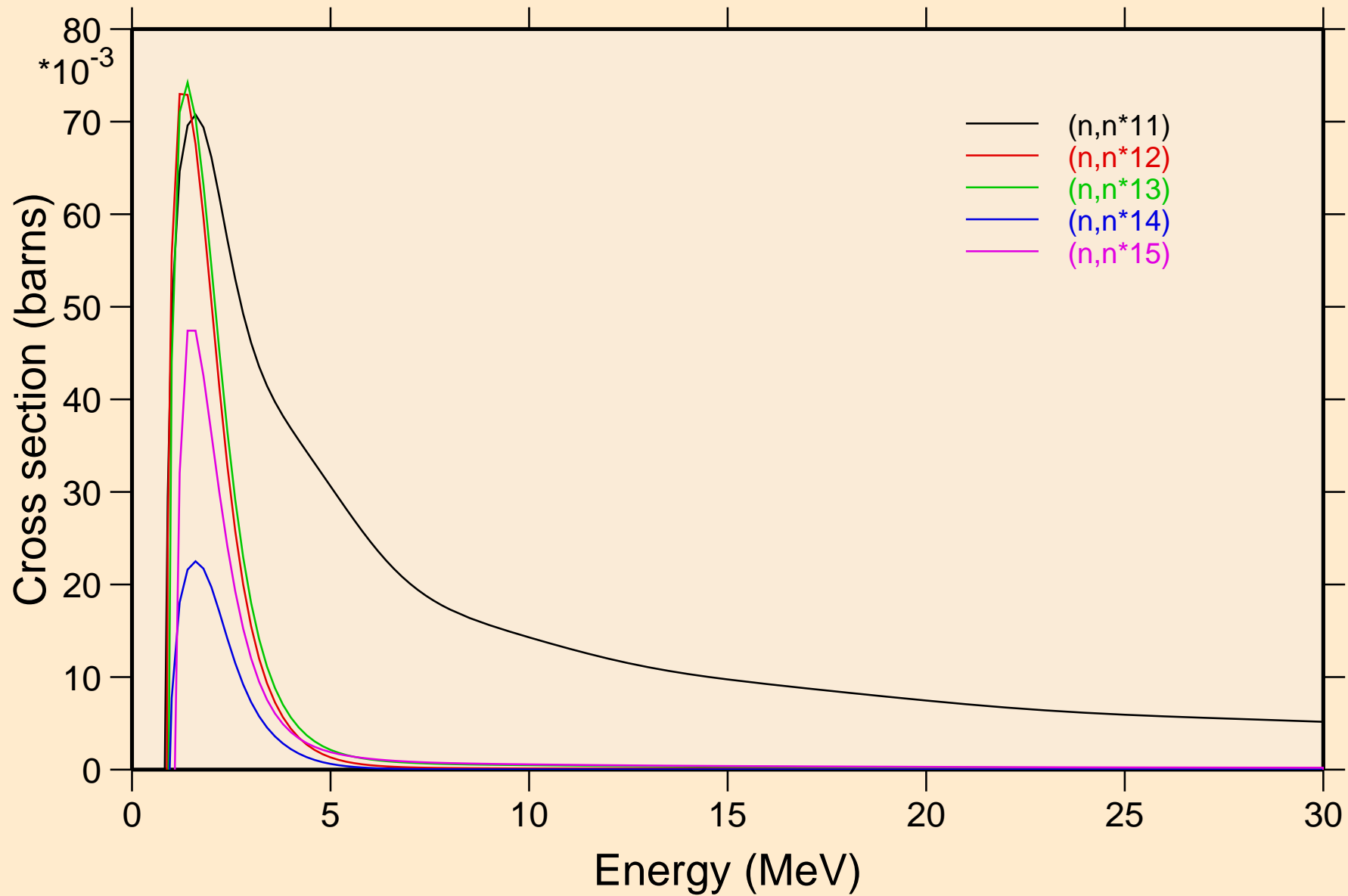
# CS133 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

## Inelastic levels

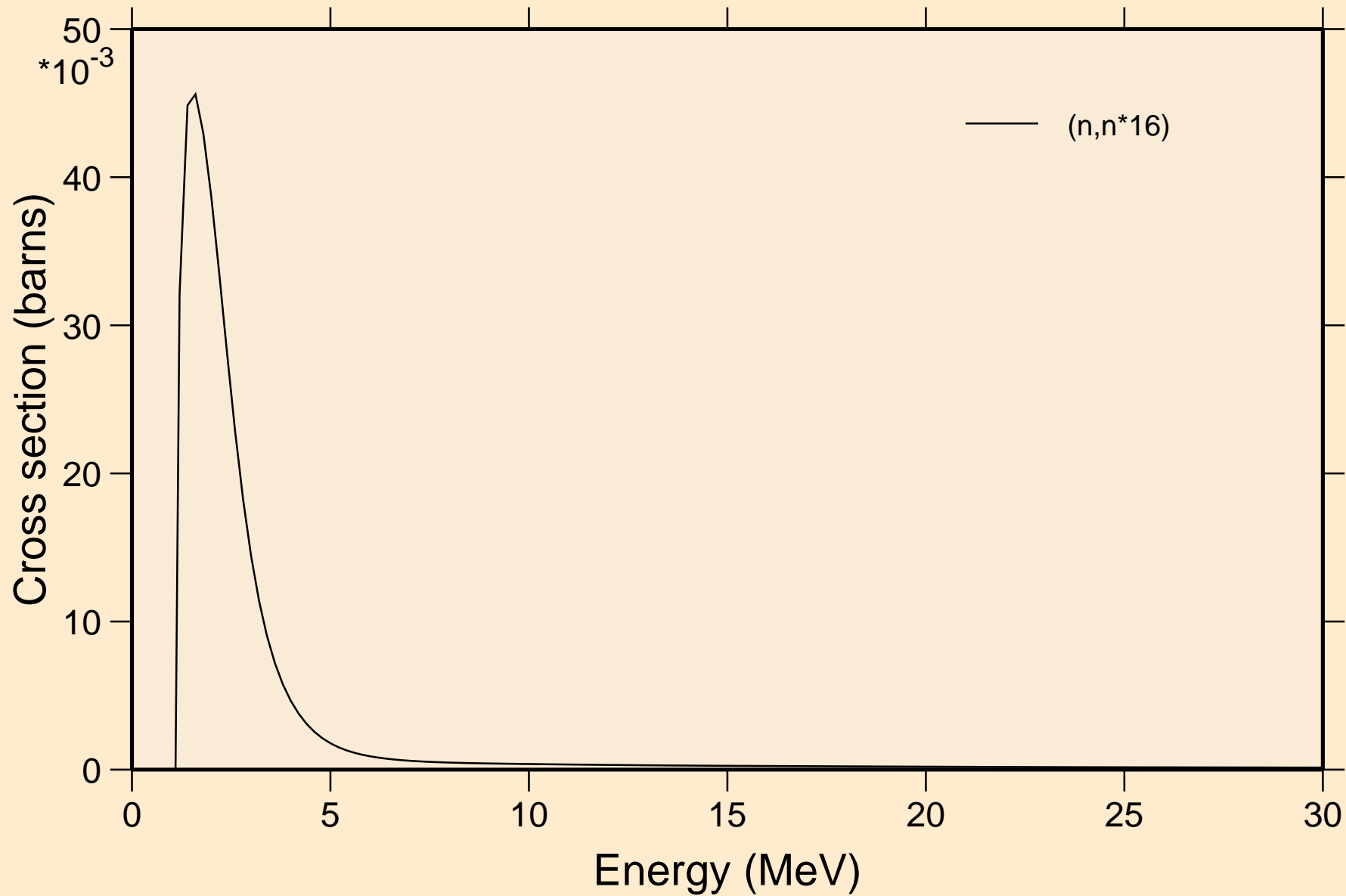


# CS133 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

## Inelastic levels



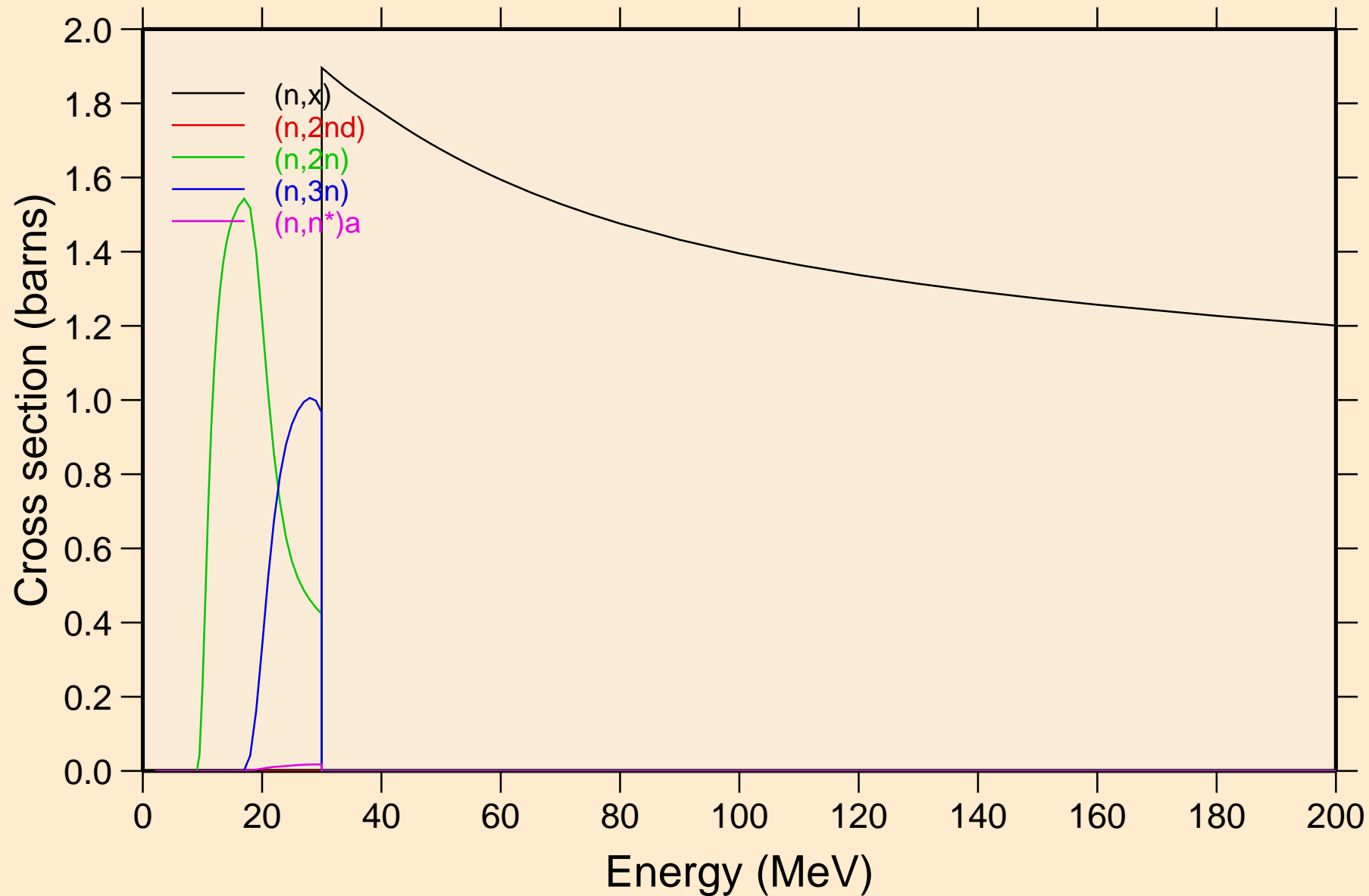
CS133 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Inelastic levels





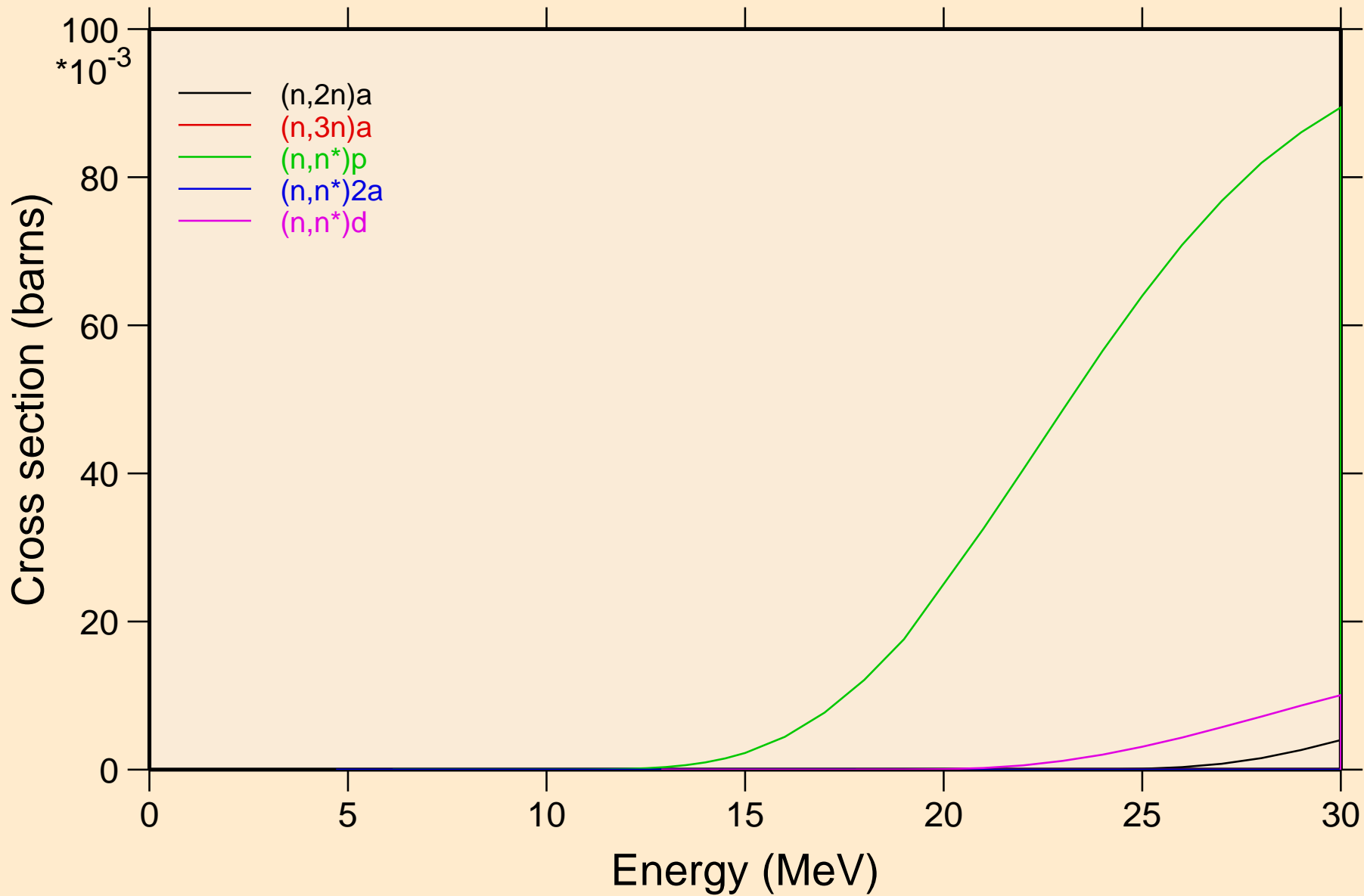
# CS133 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

## Threshold reactions



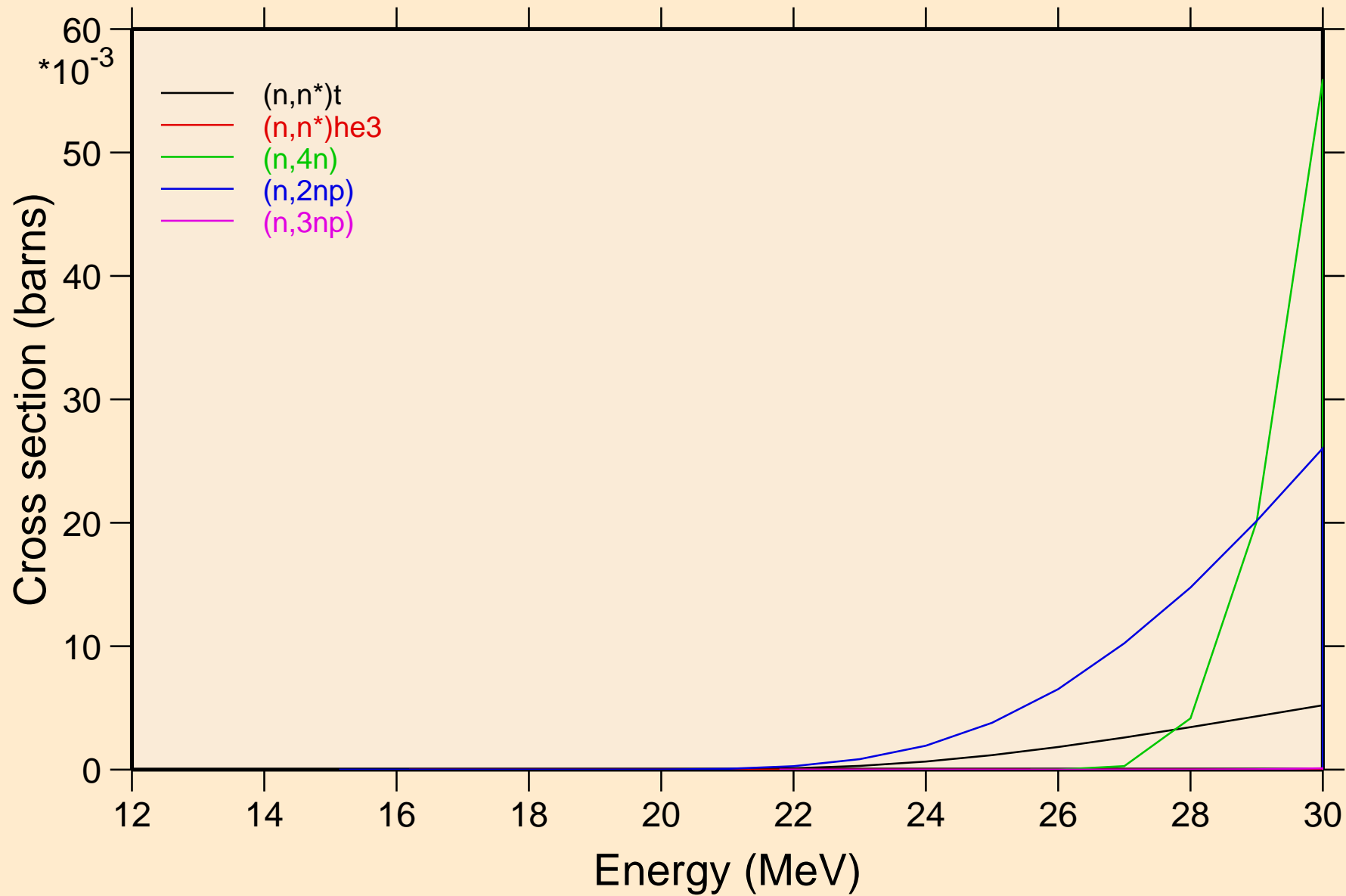
# CS133 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

## Threshold reactions



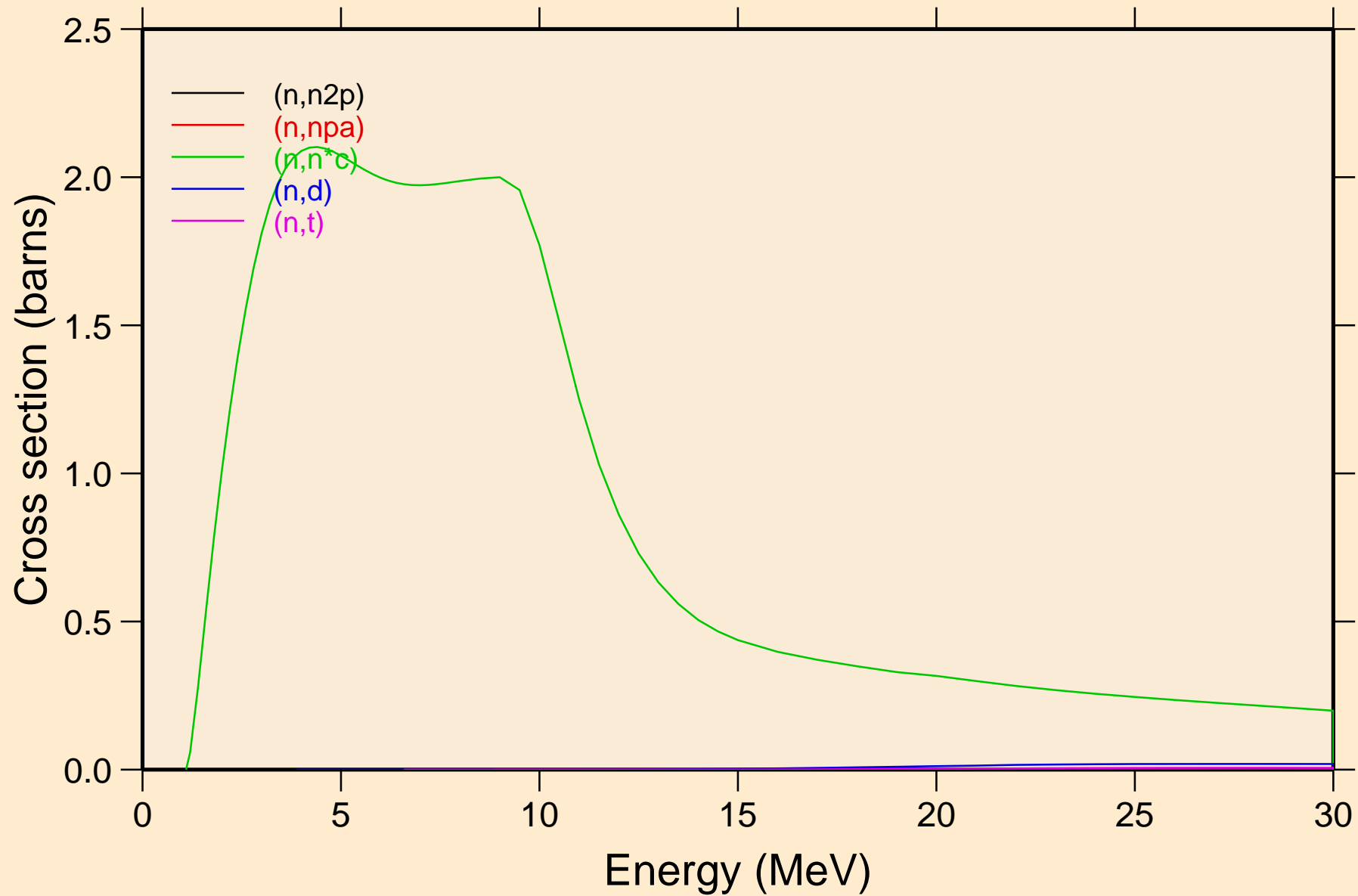
# CS133 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

## Threshold reactions



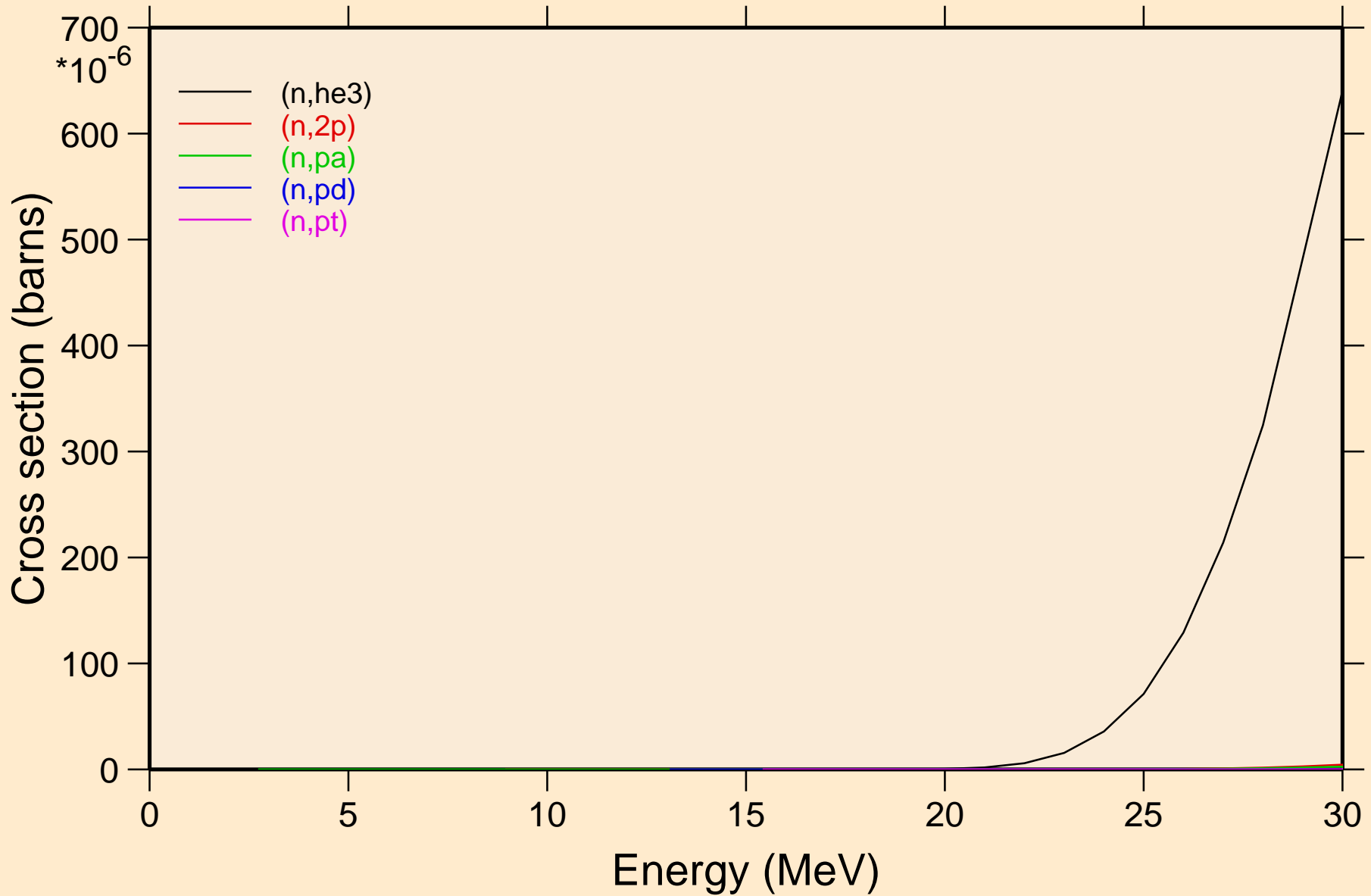
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## Threshold reactions

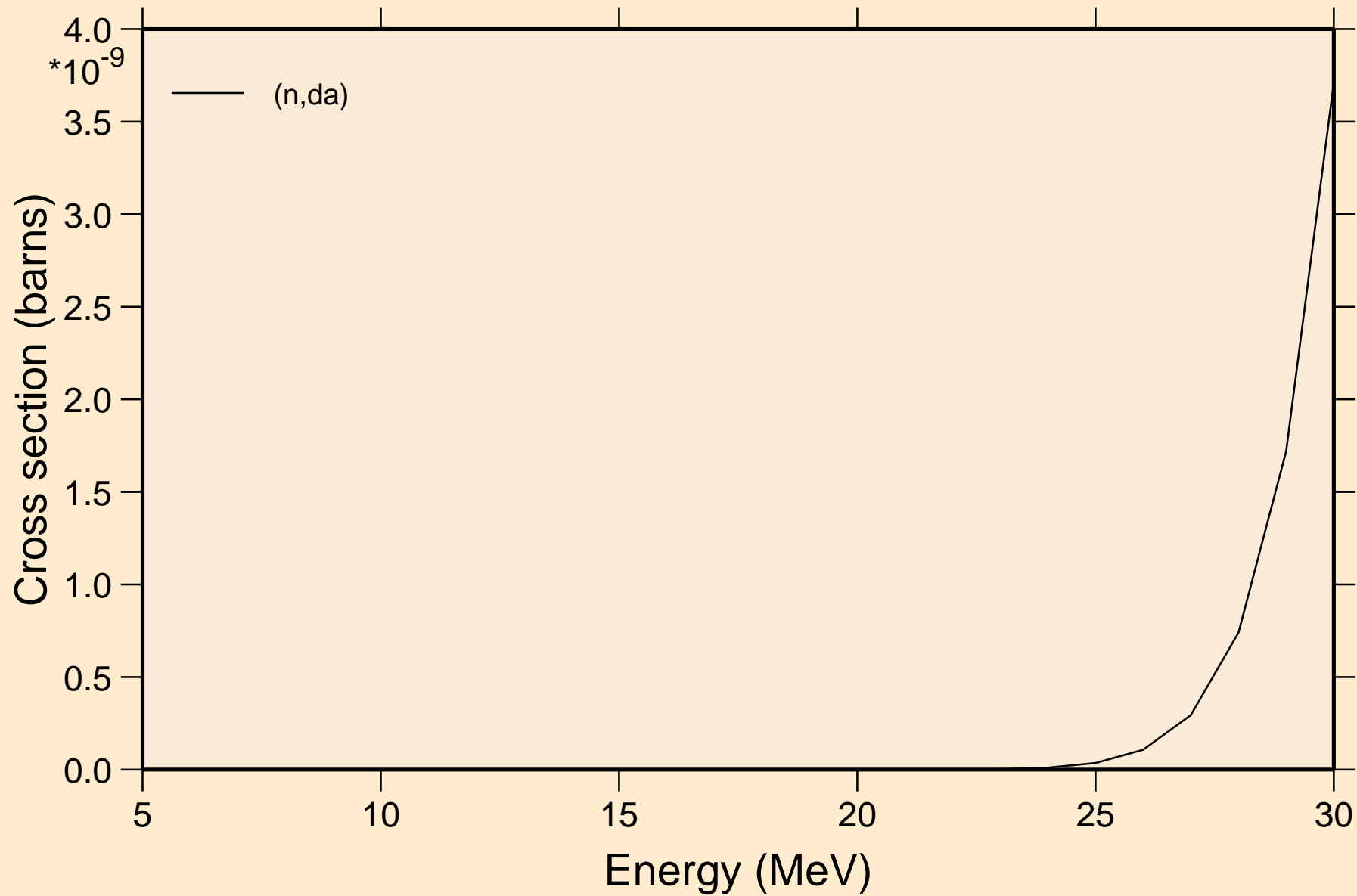


# CS133 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

## Threshold reactions

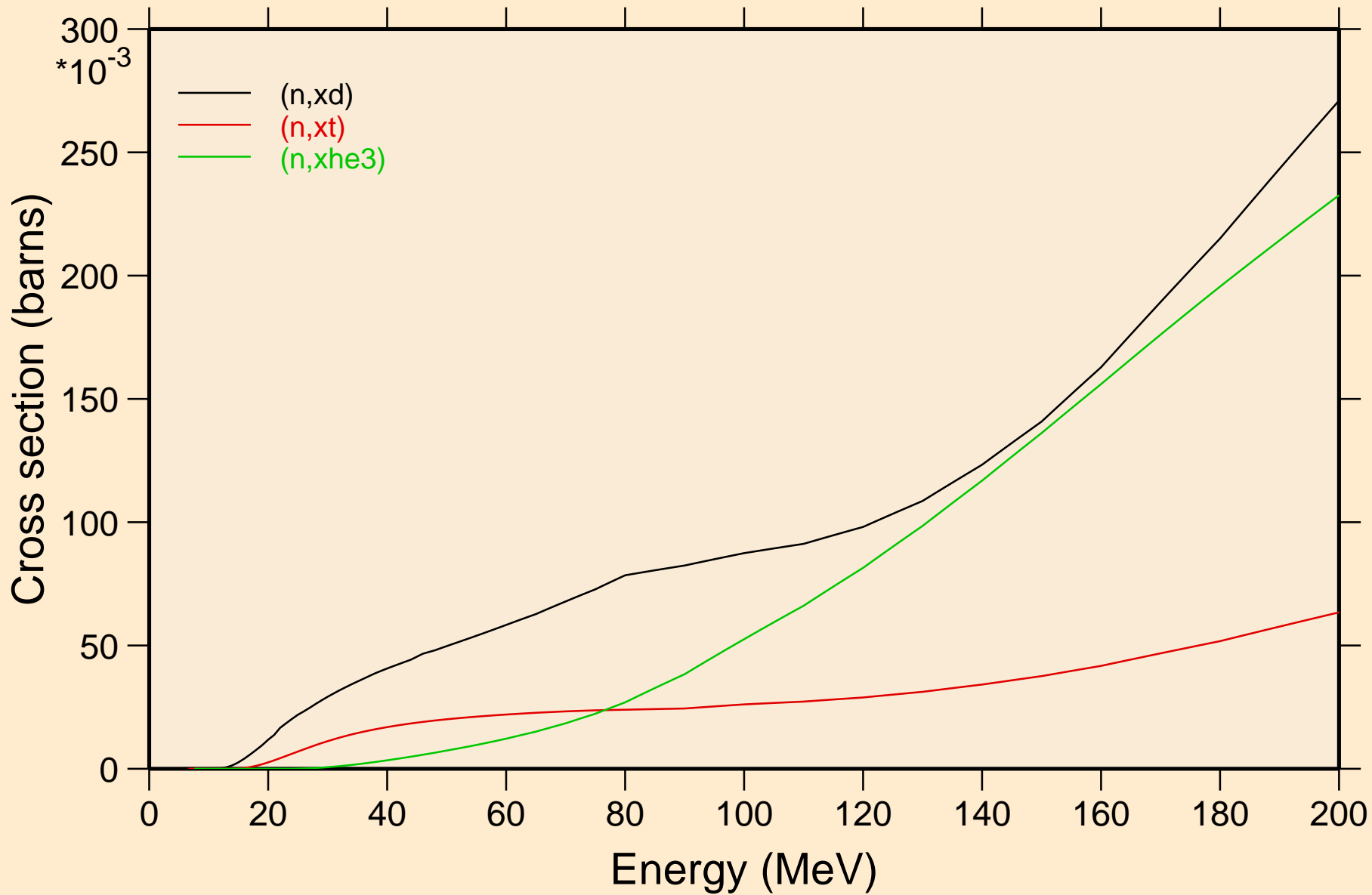


CS133 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Threshold reactions

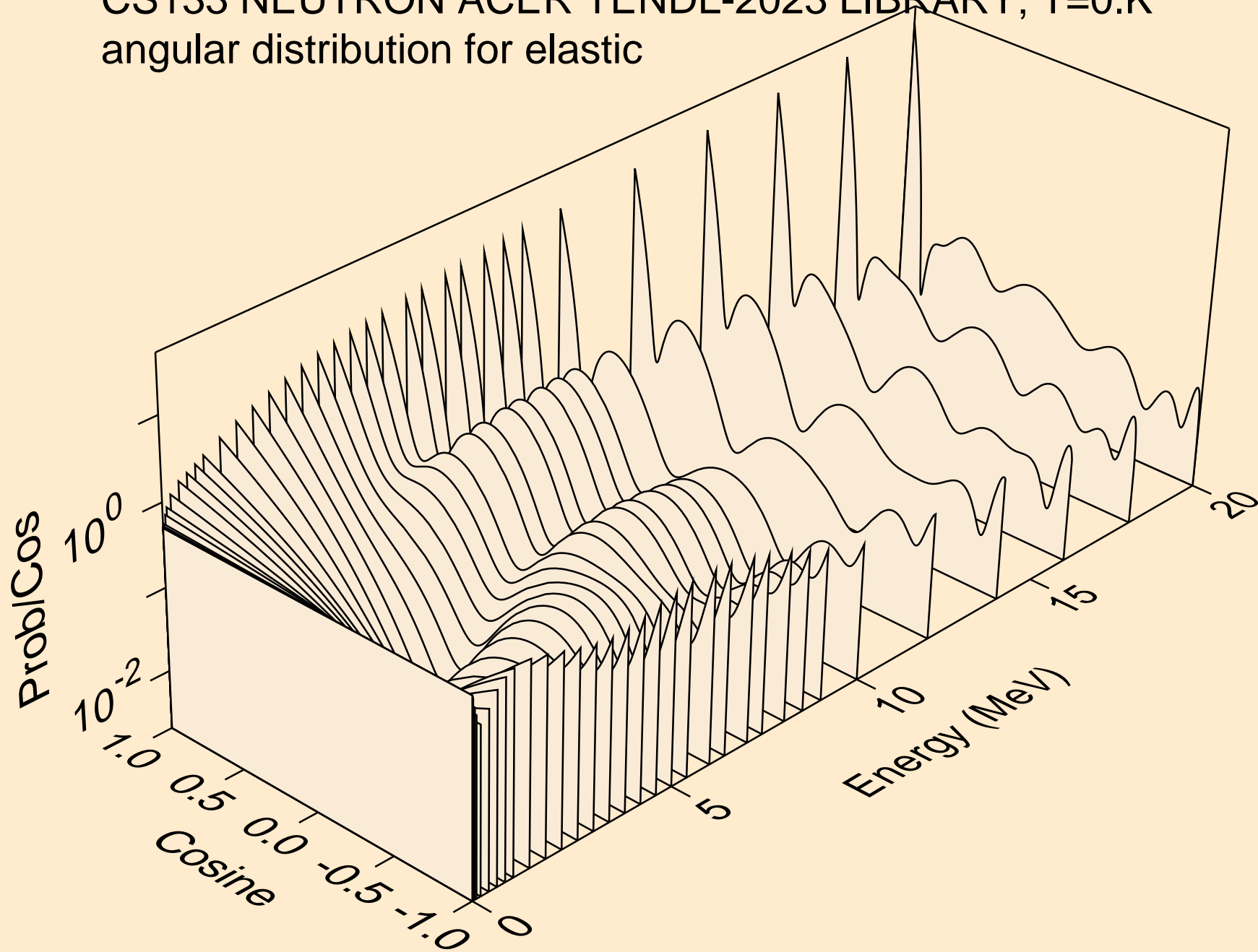


# CS133 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

## Threshold reactions

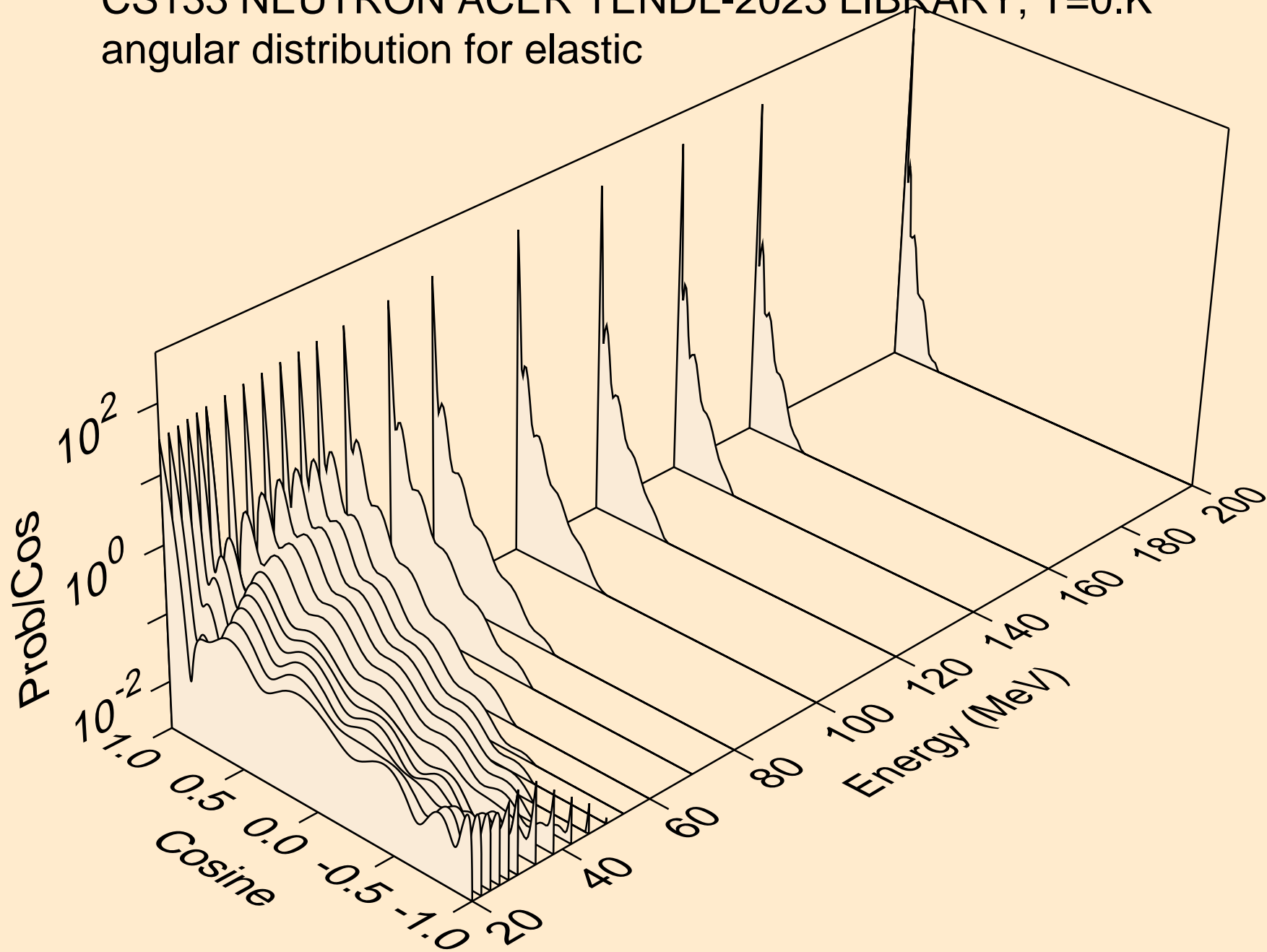


CS133 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for elastic

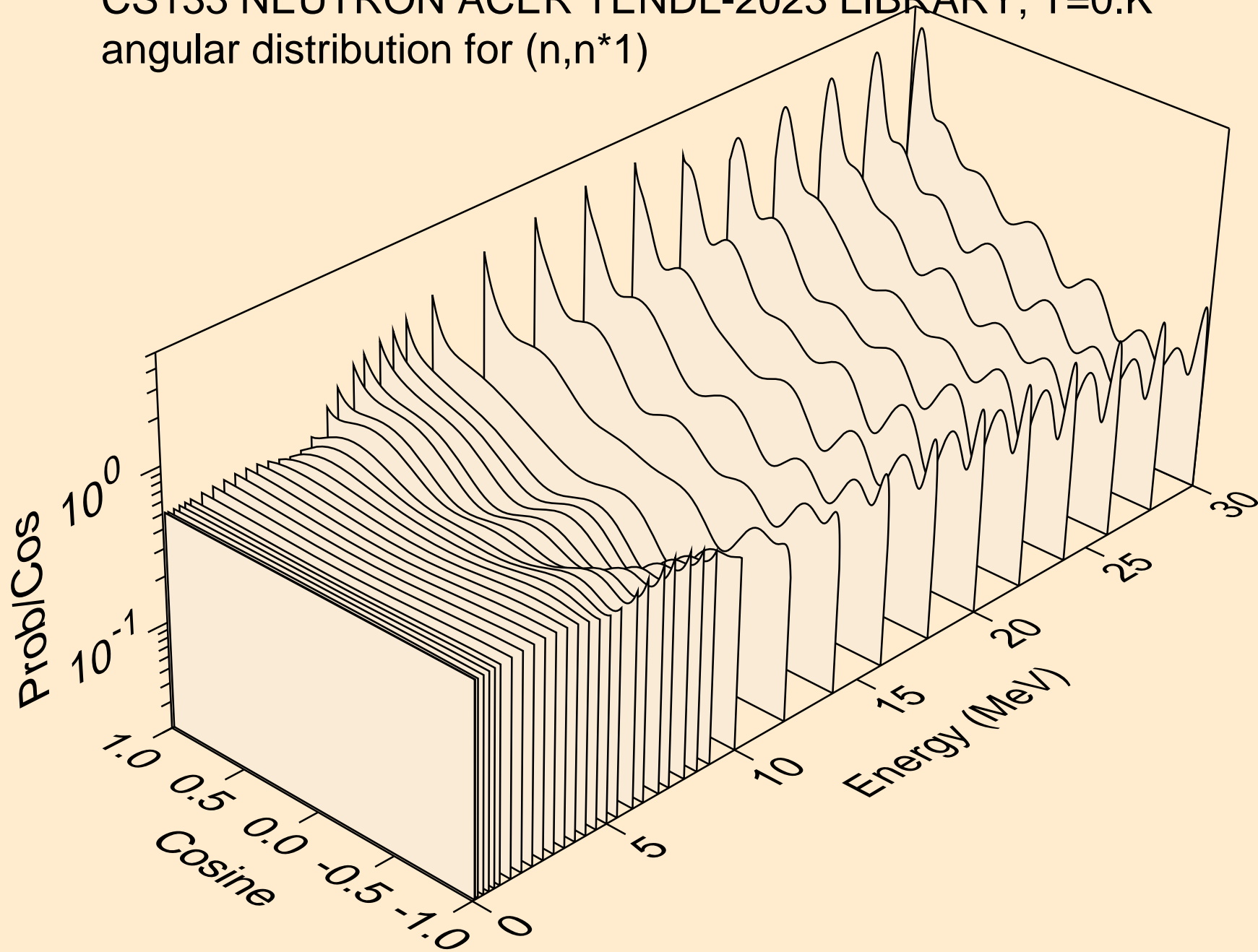




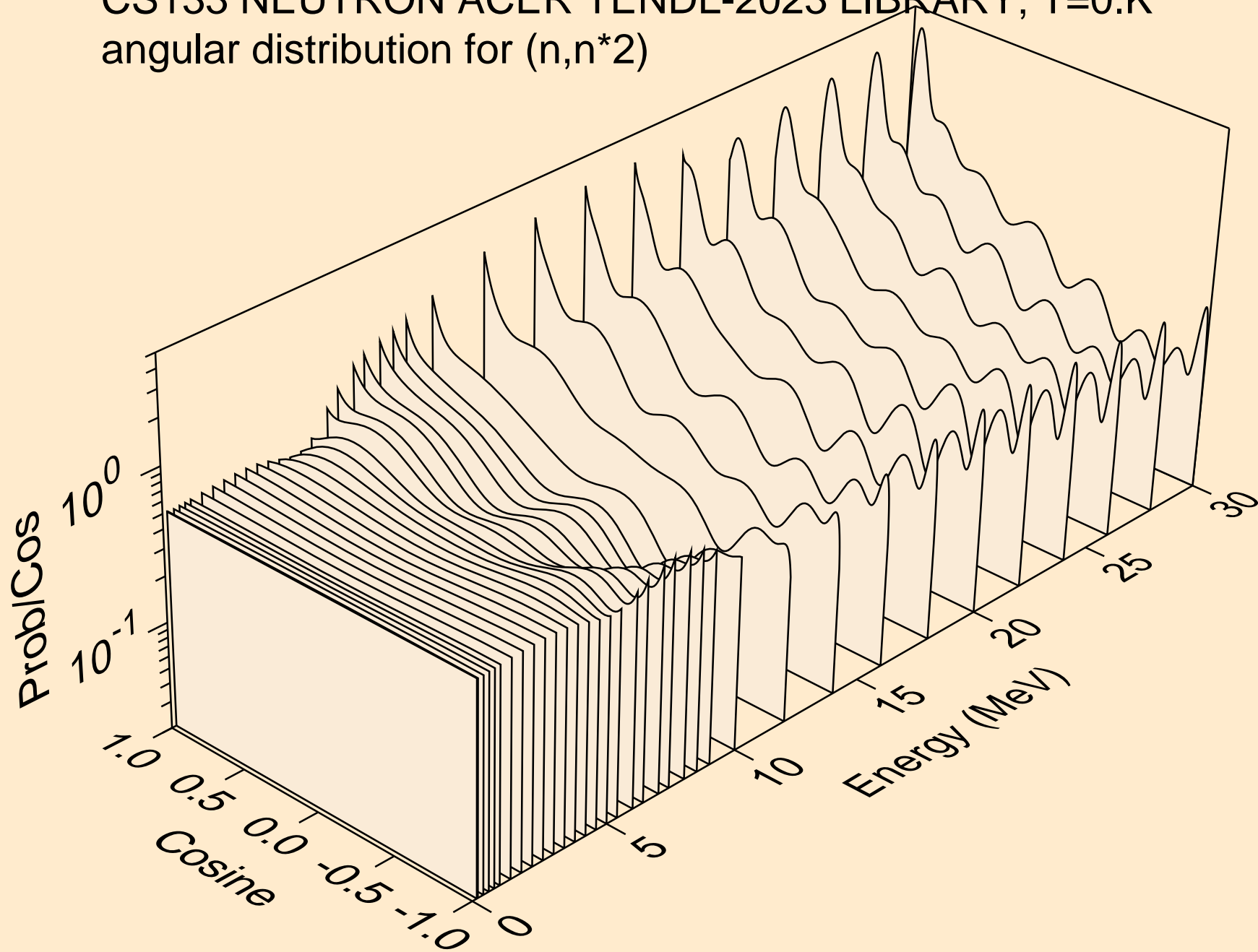
CS133 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for elastic



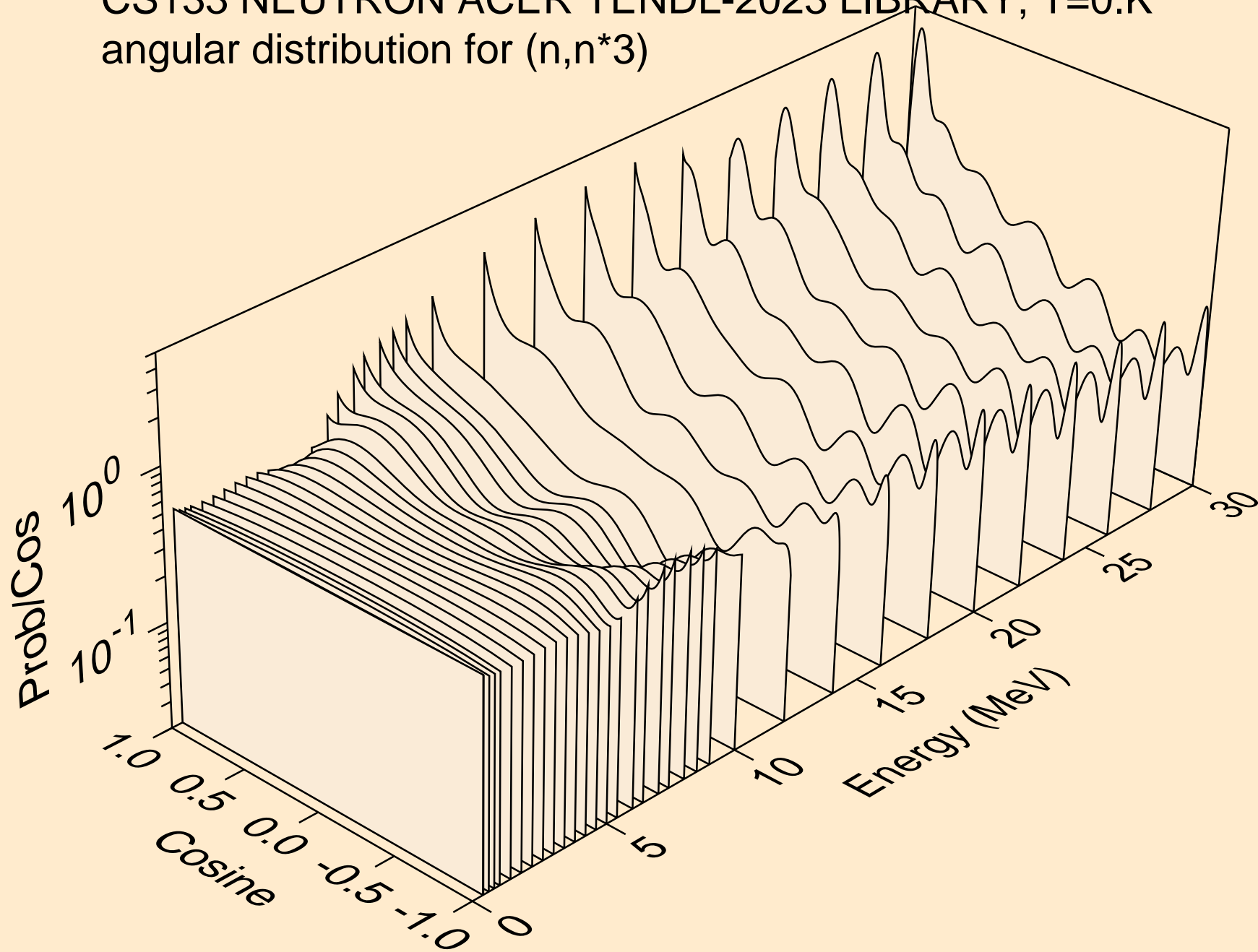
CS133 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*1)



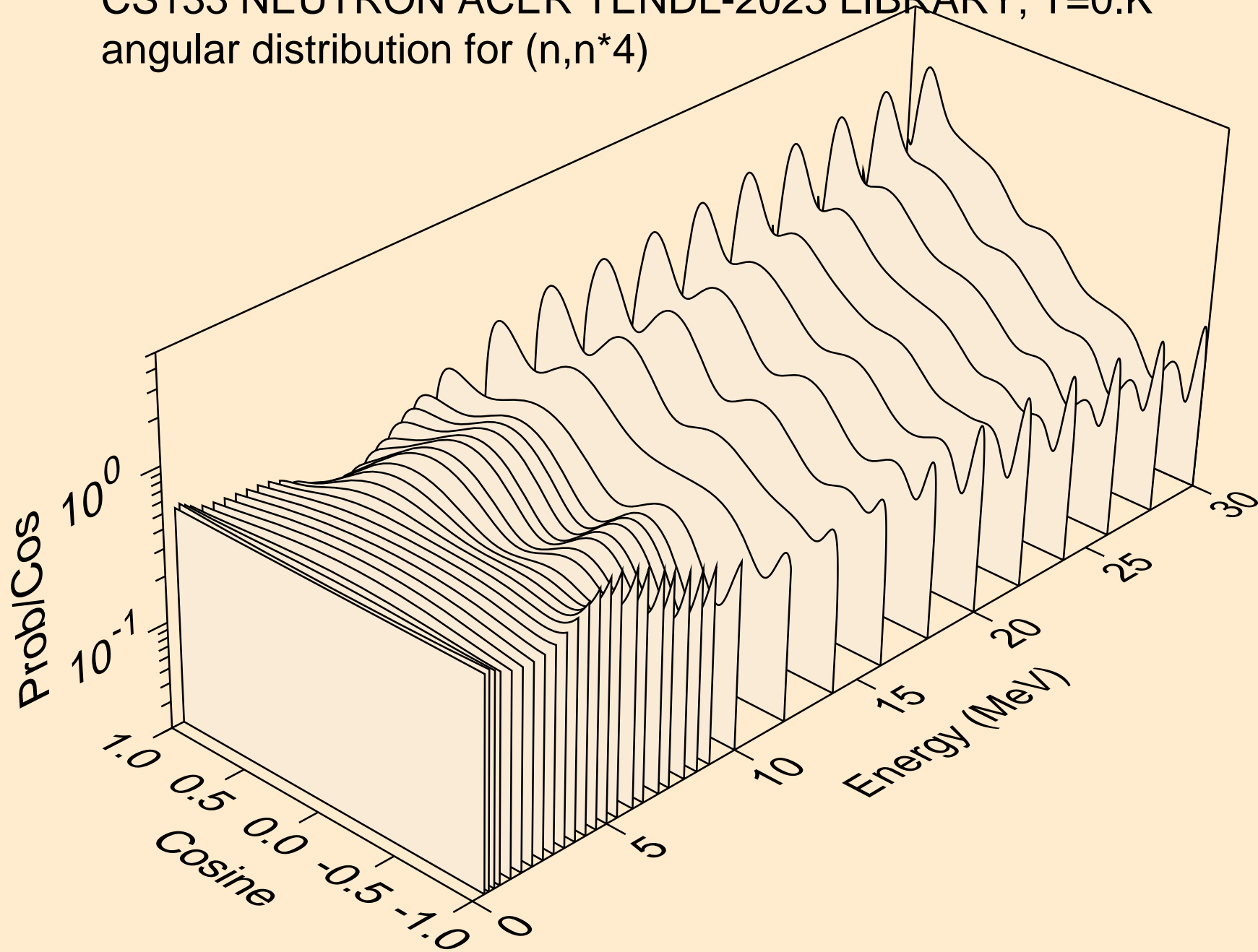
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angular distribution for (n,n\*2)



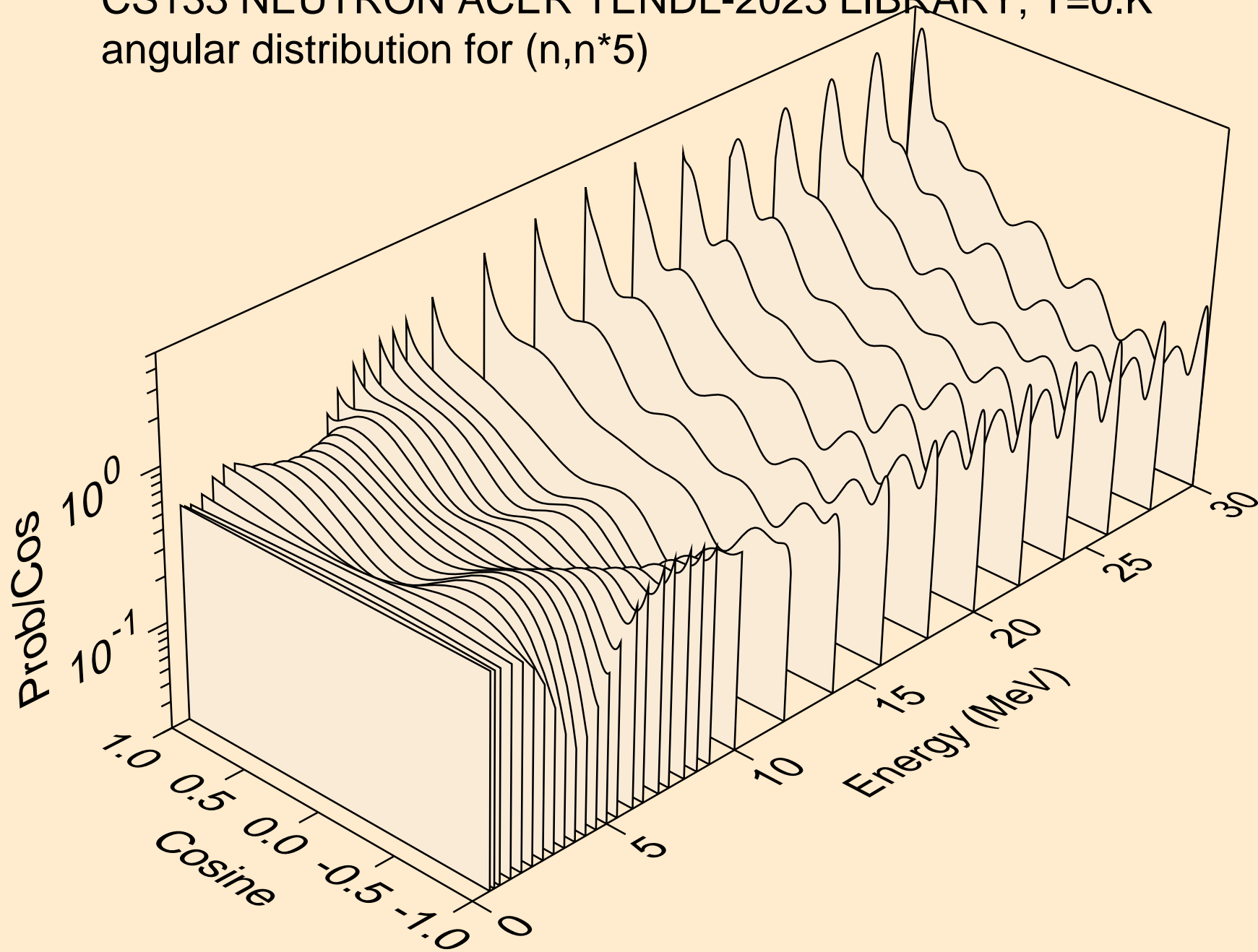
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angular distribution for (n,n\*3)



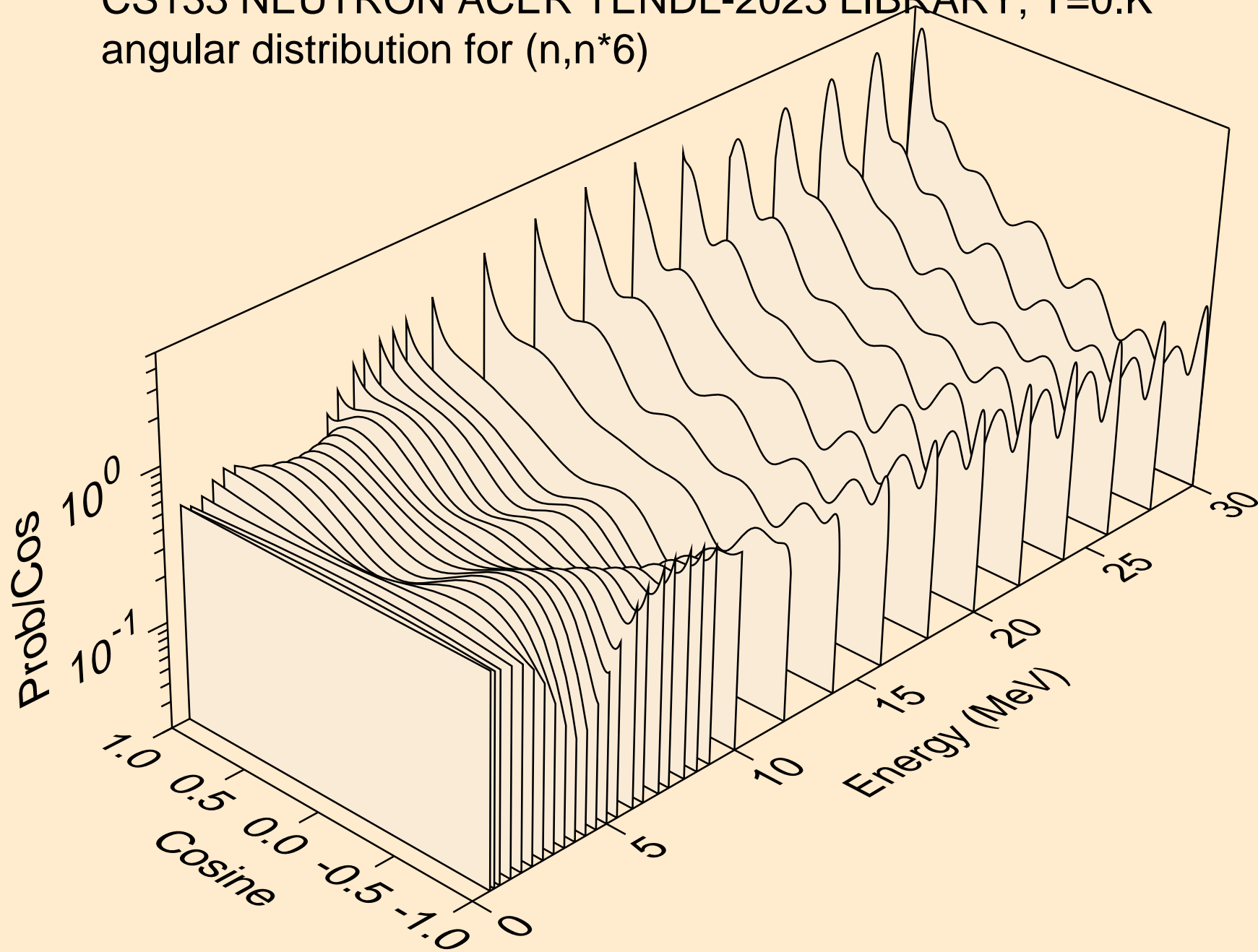
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angular distribution for (n,n\*4)



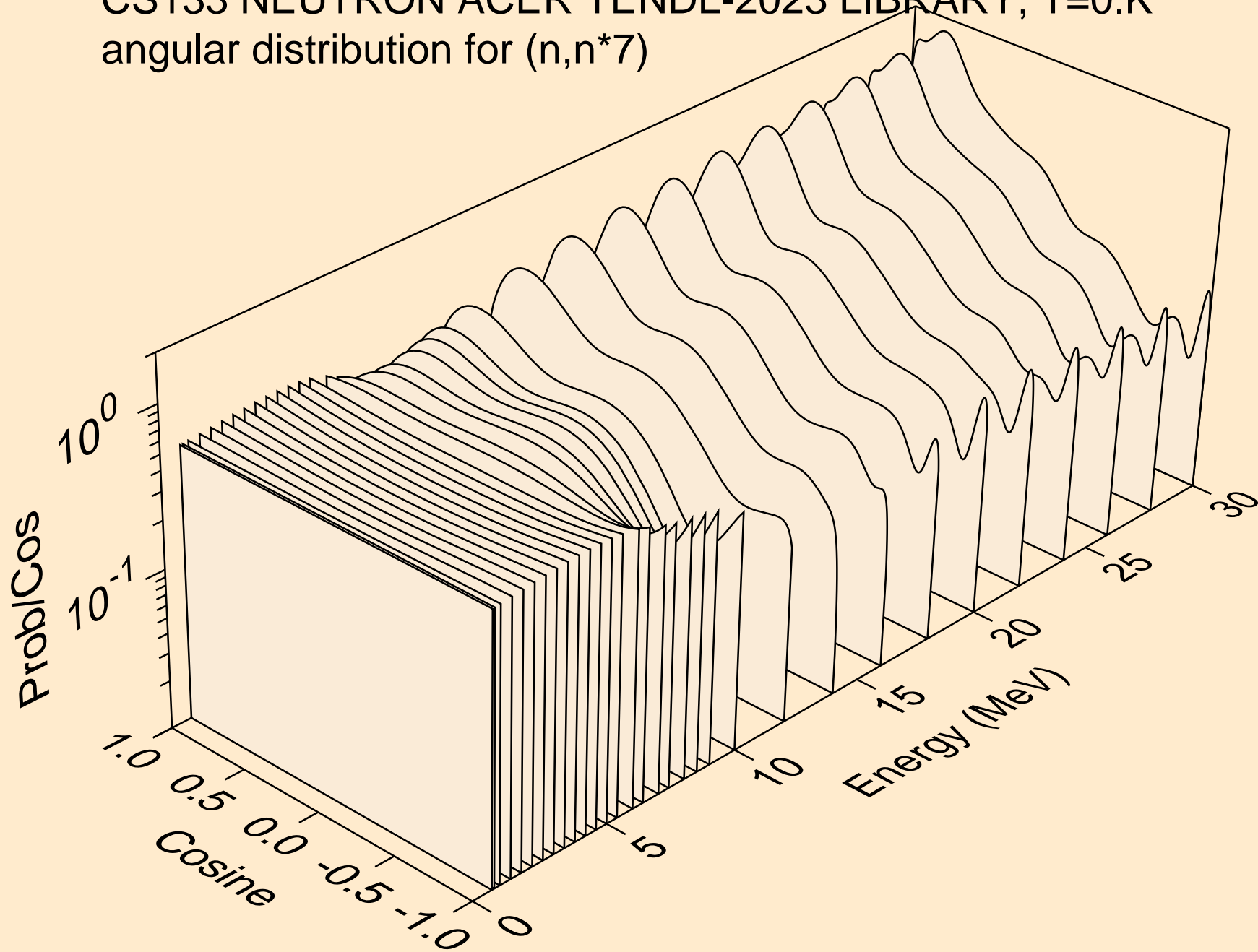
CS133 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*5)



CS133 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*6)

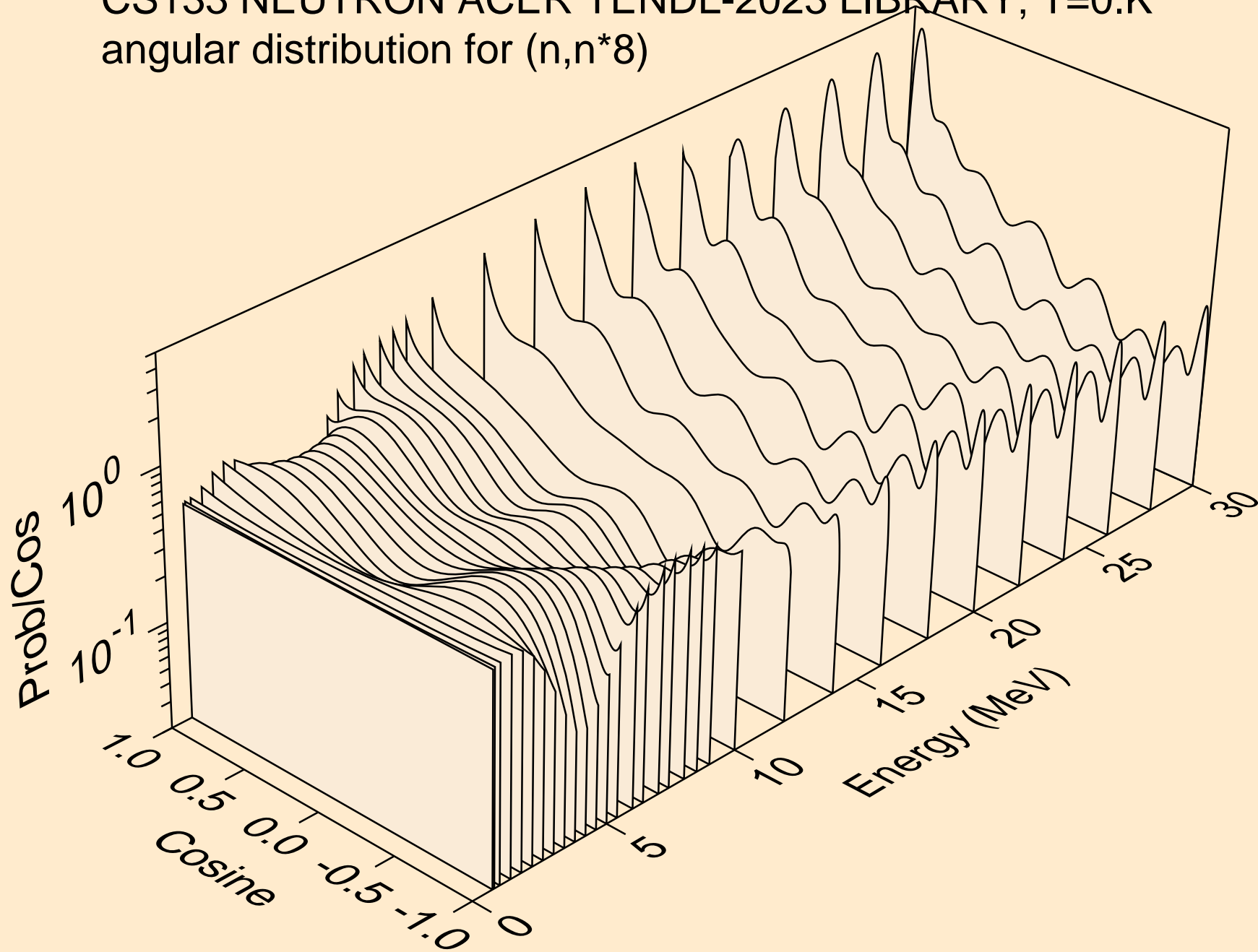


CS133 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*7)

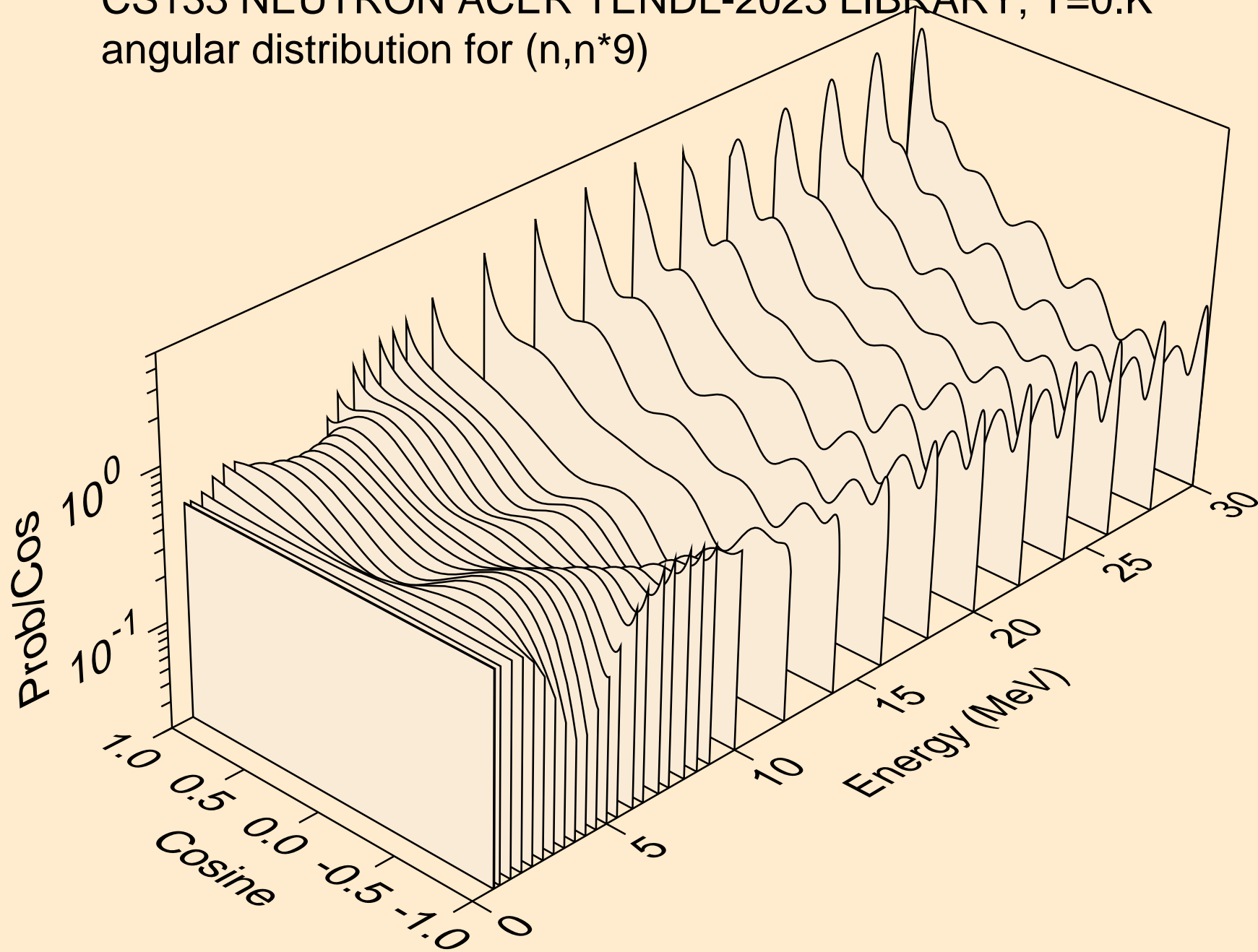




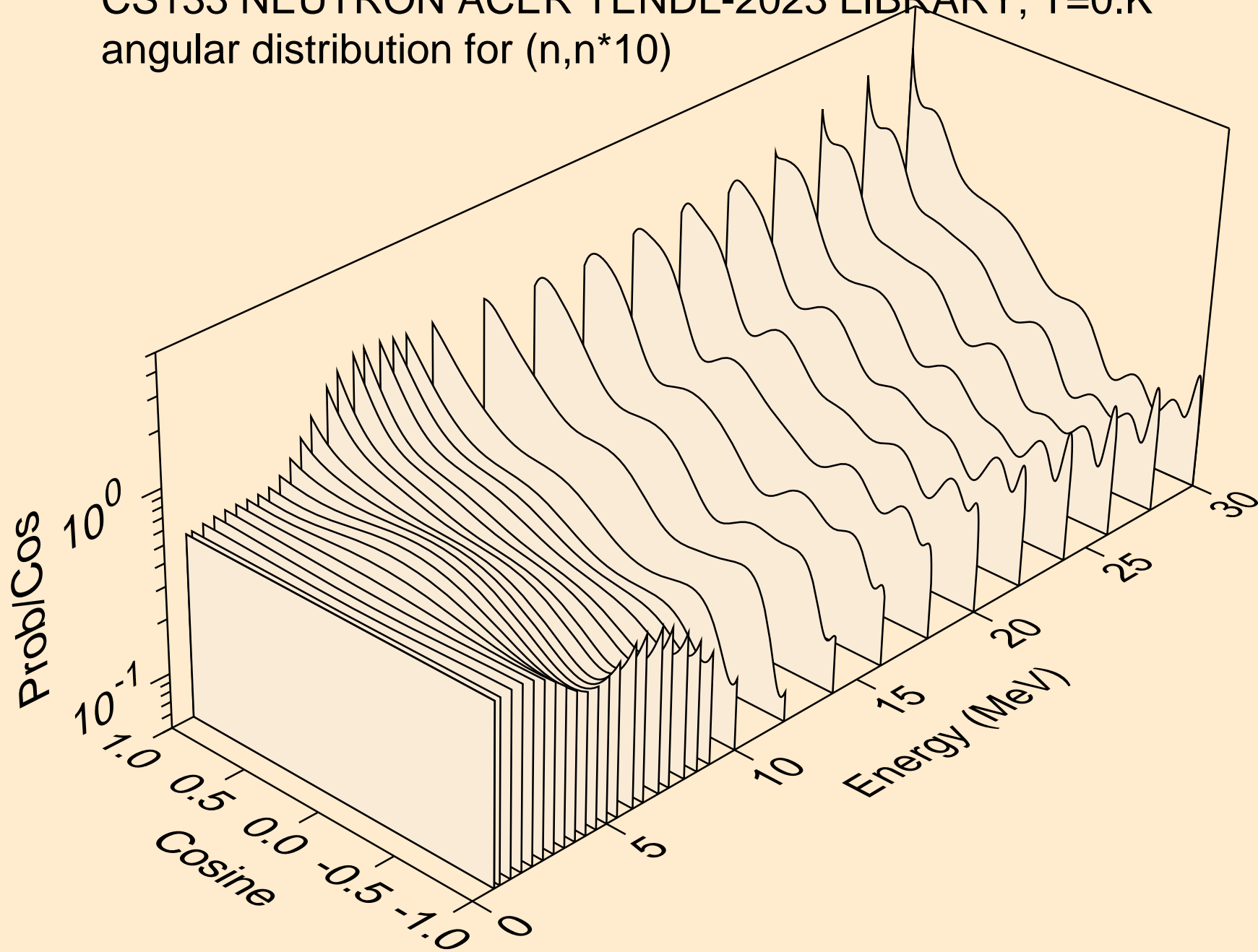
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angular distribution for (n,n\*8)



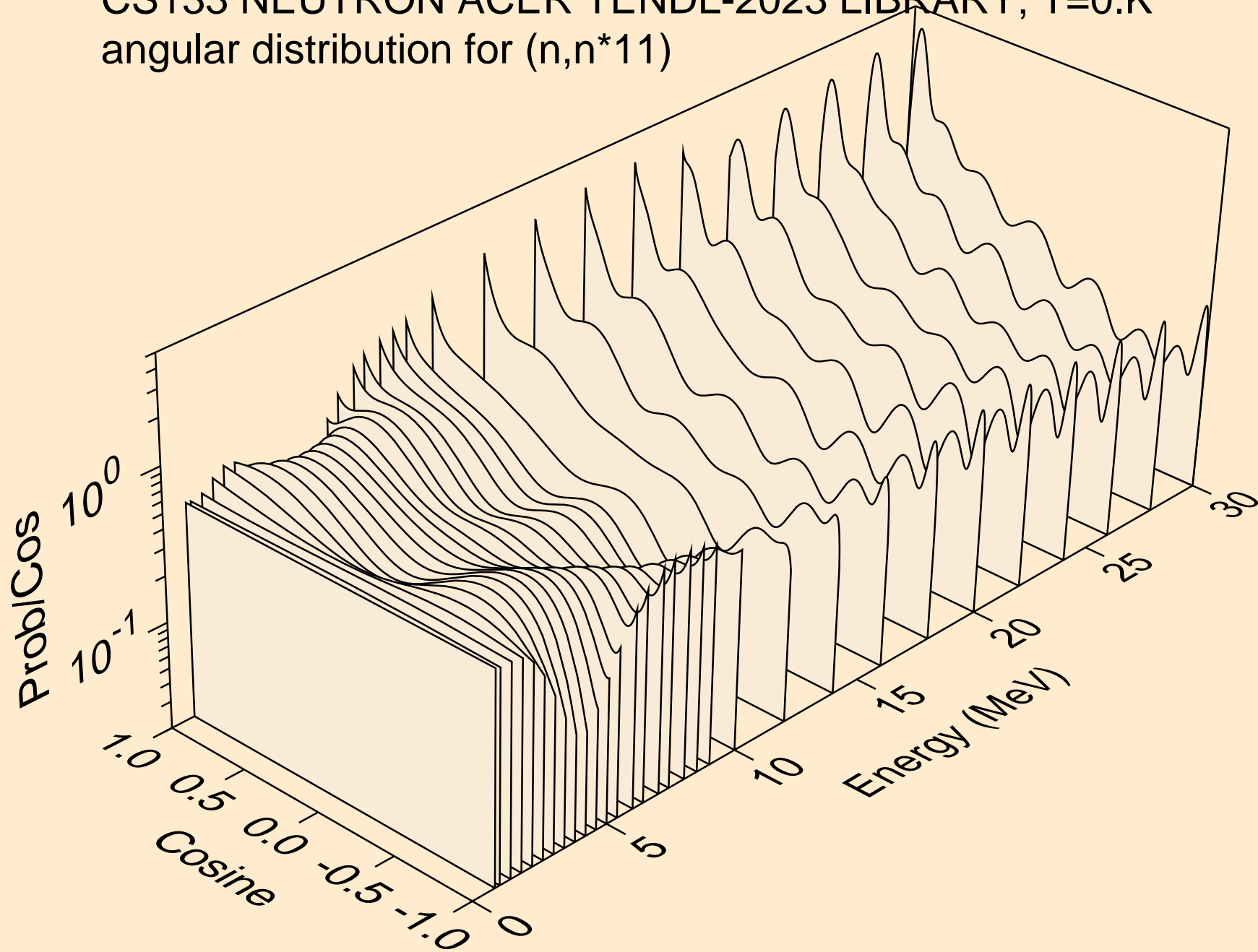
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angular distribution for (n,n\*9)



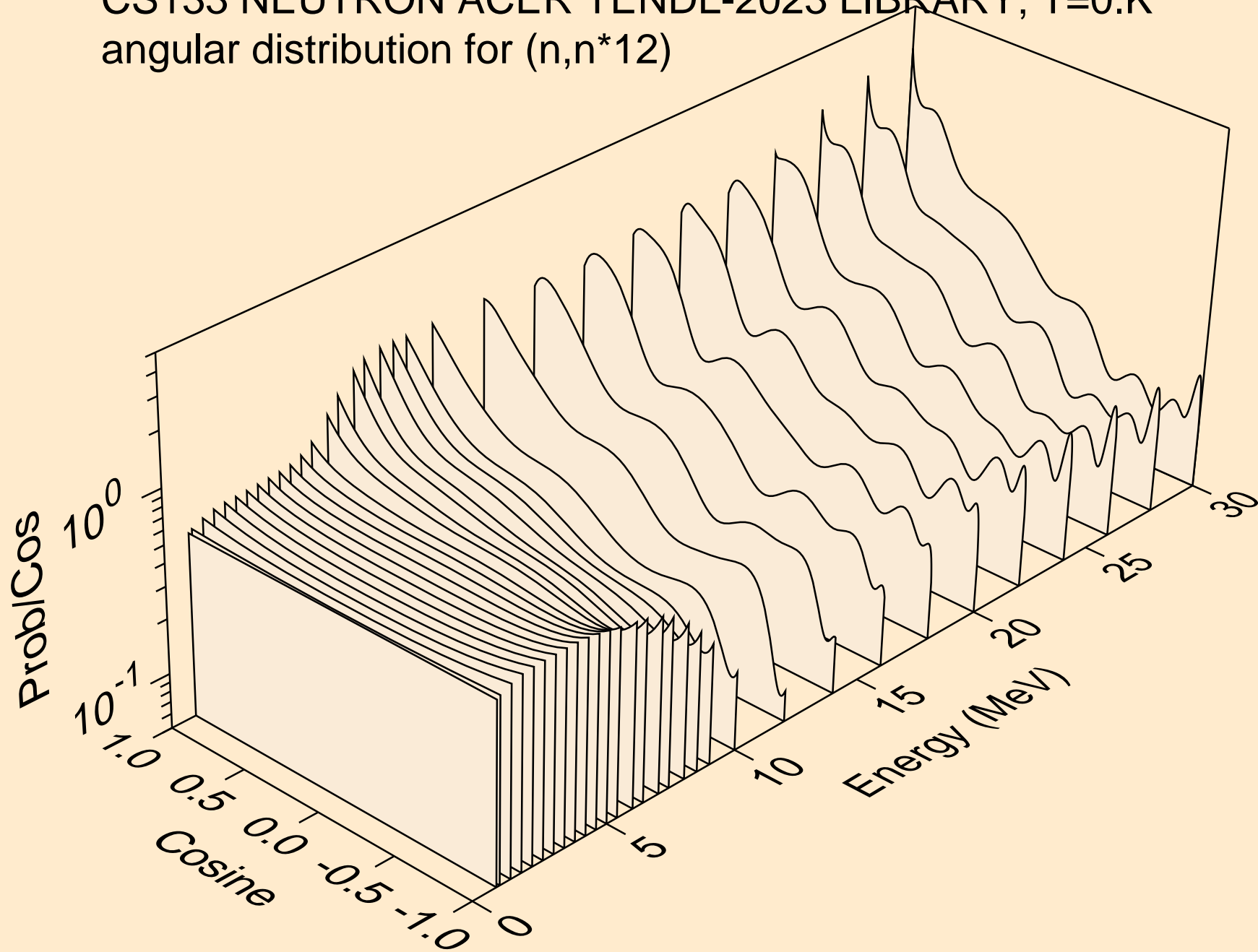
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angular distribution for (n,n\*10)



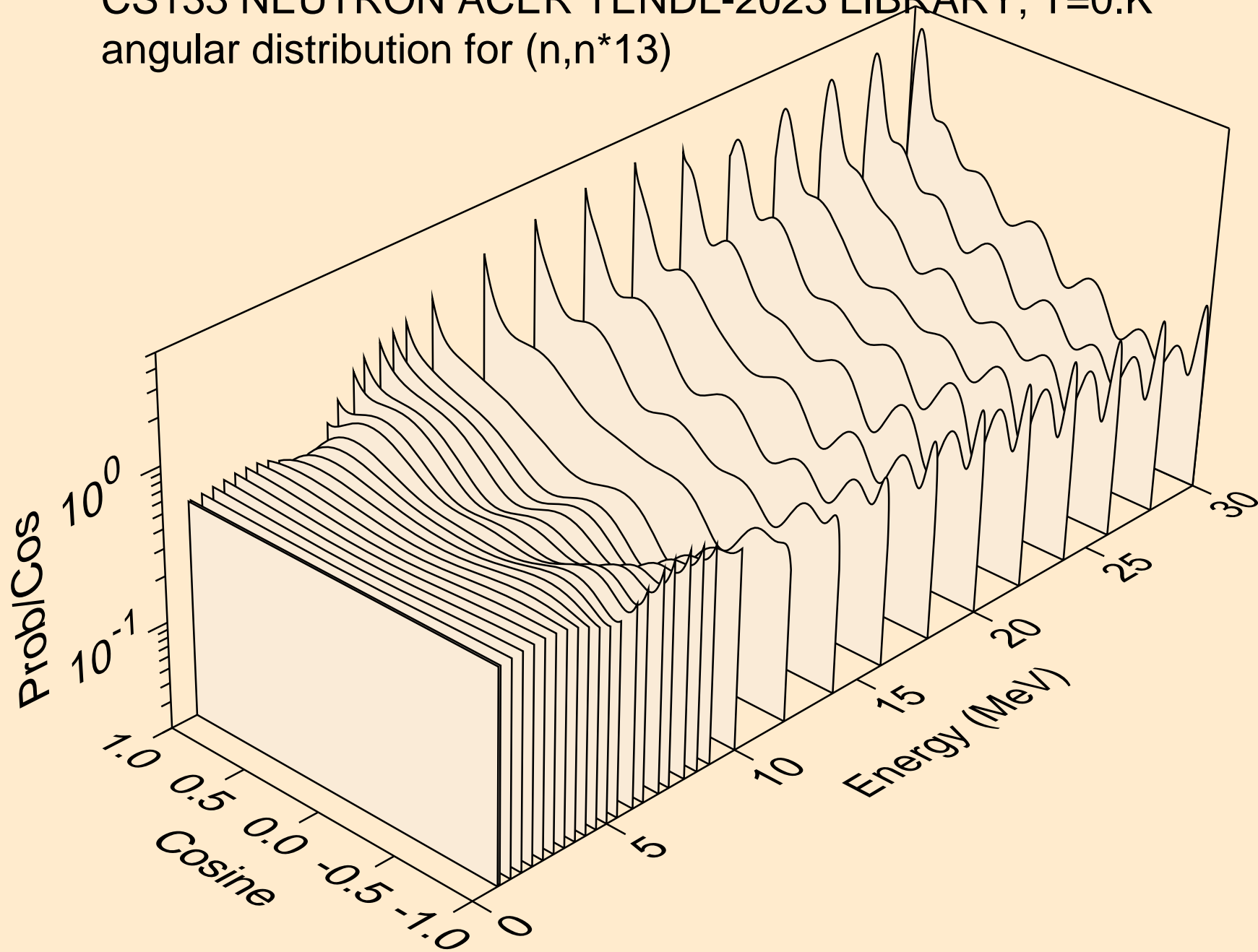
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angular distribution for (n,n\*11)



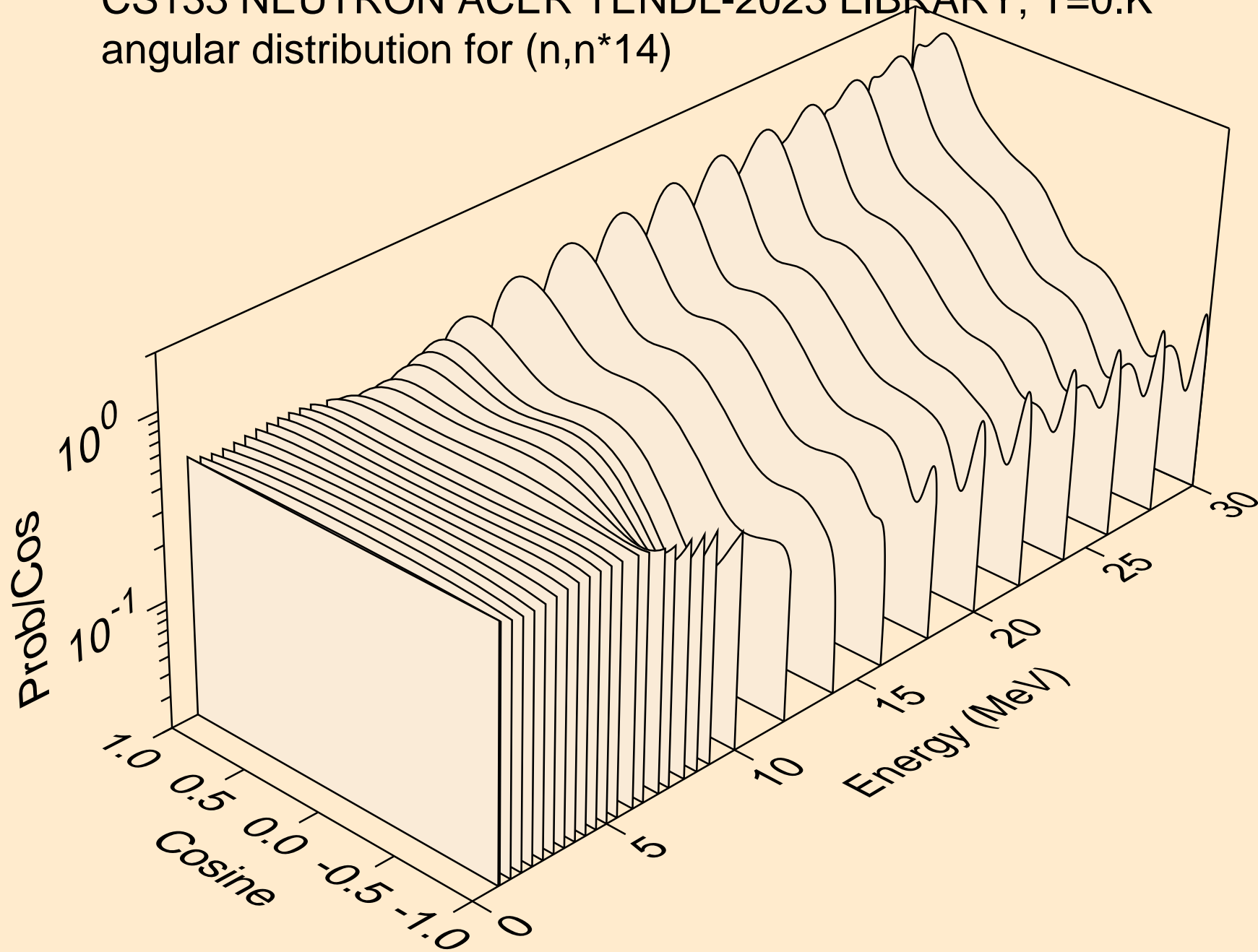
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angular distribution for (n,n\*12)



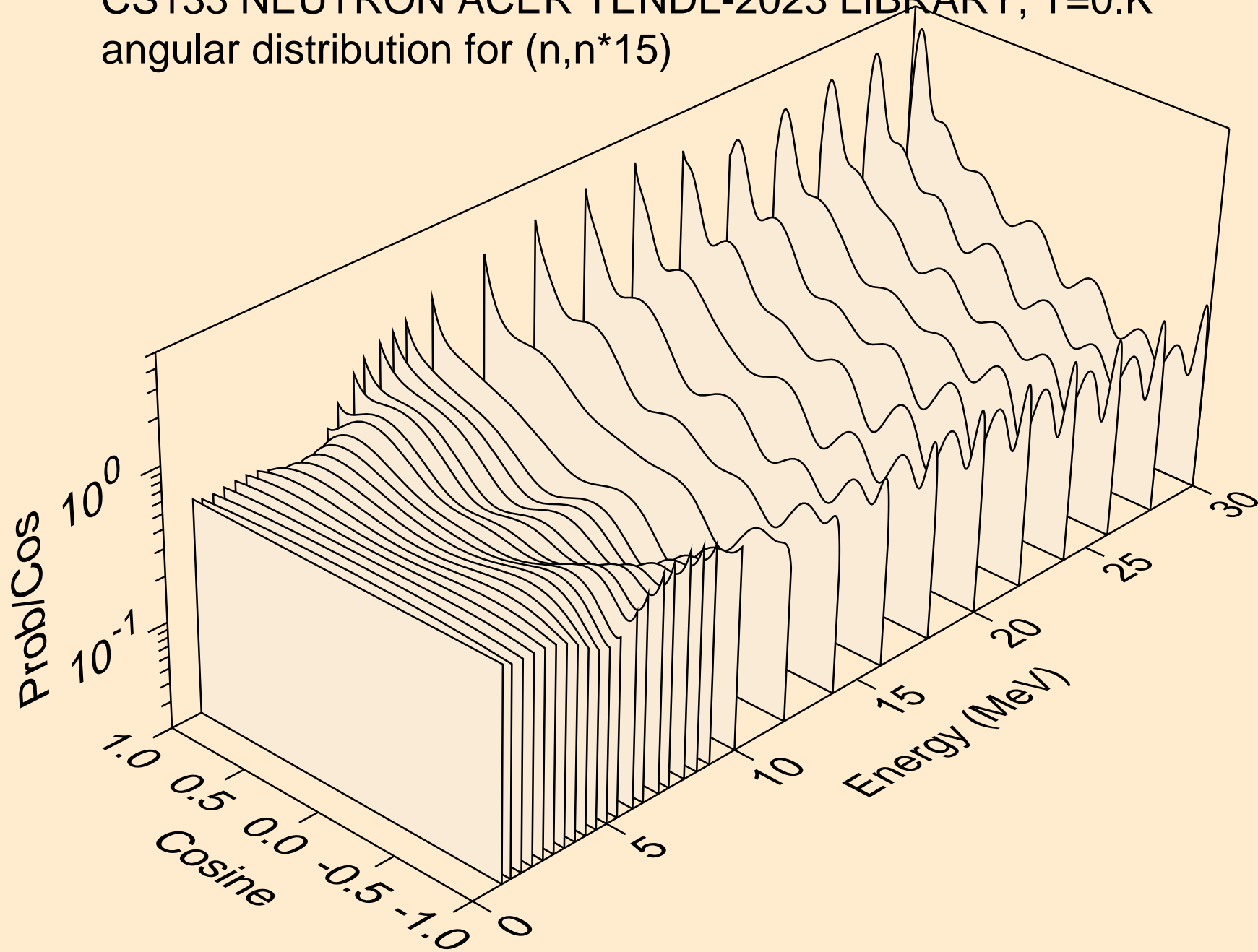
CS133 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*13)



CS133 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*14)

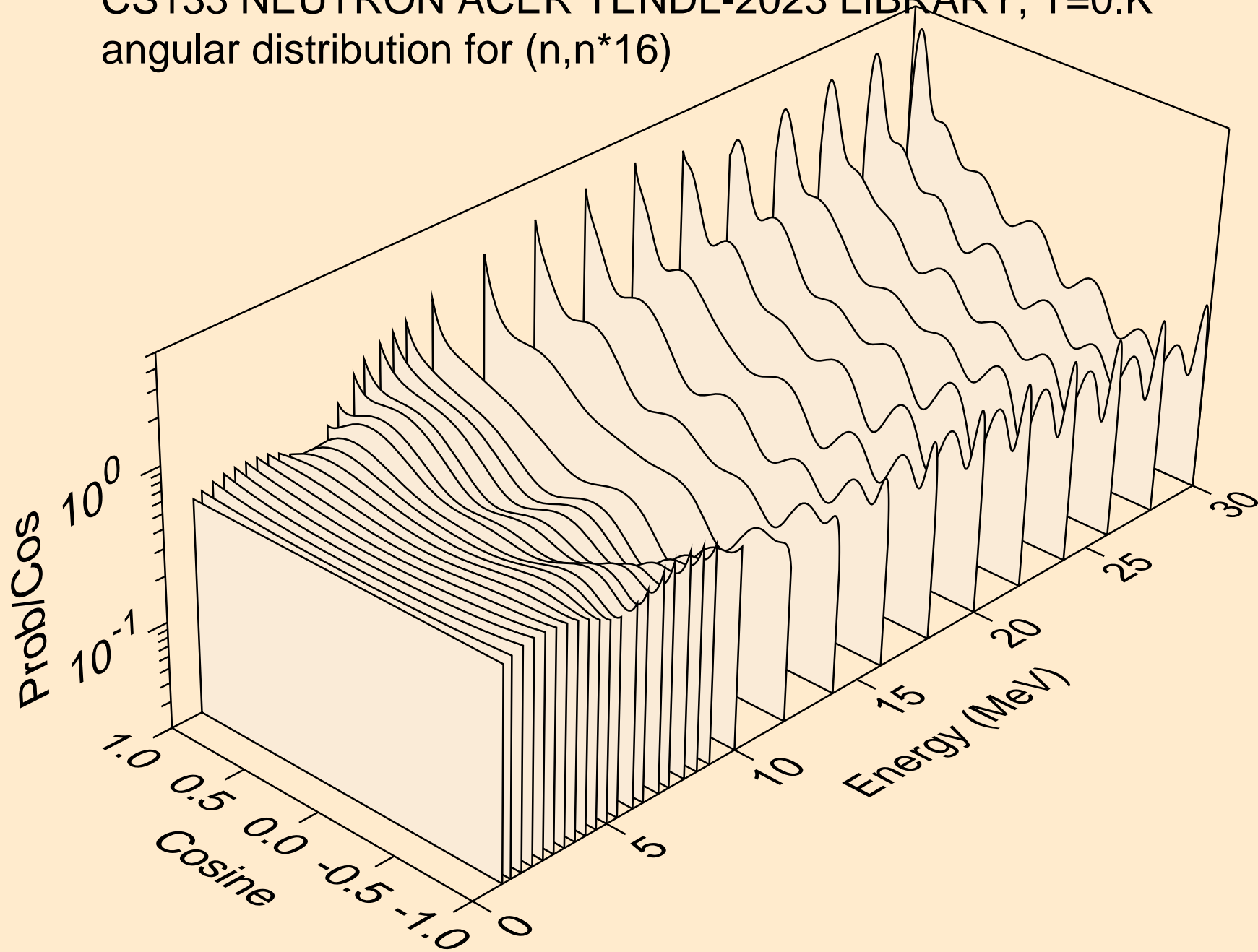


CS133 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*15)

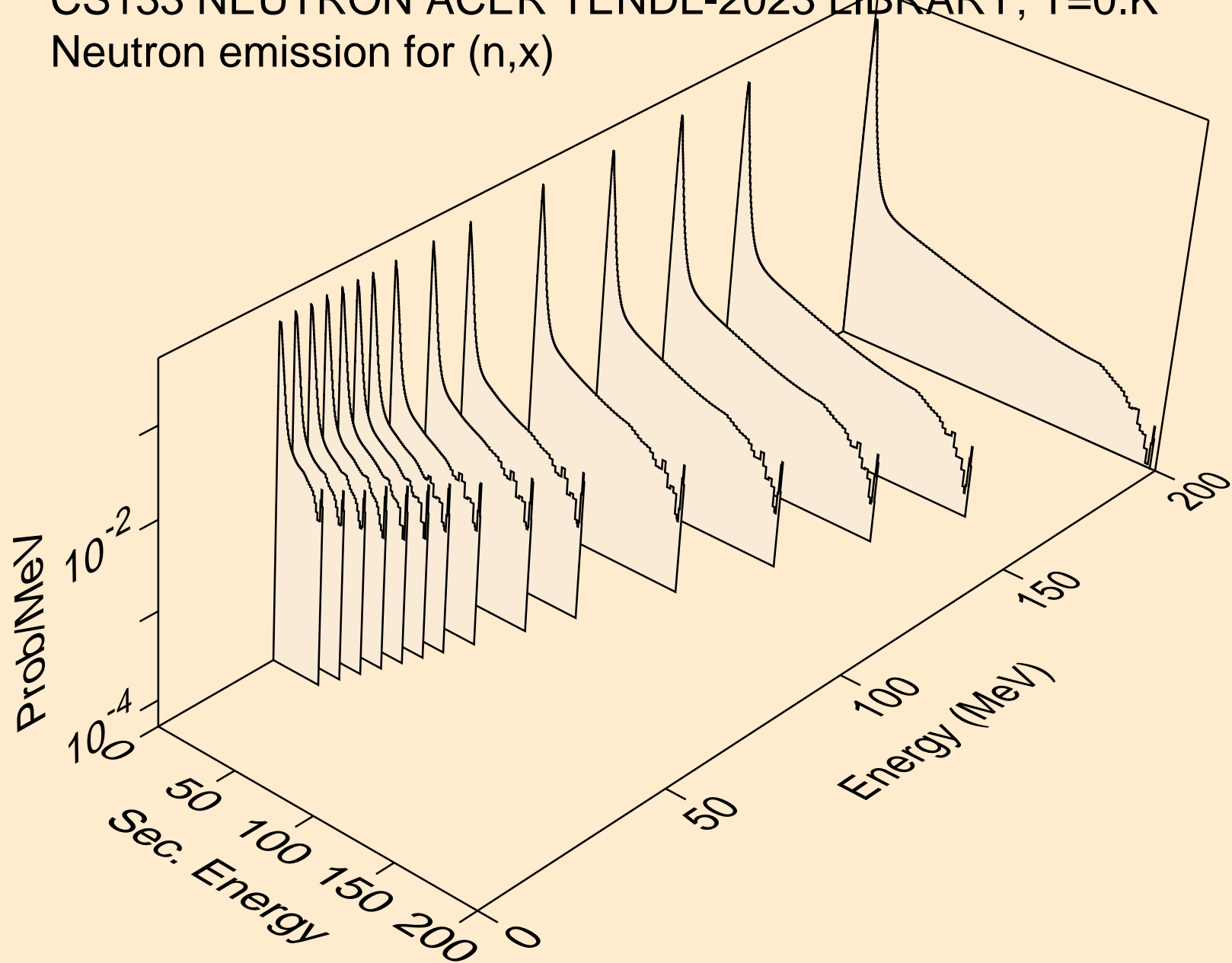




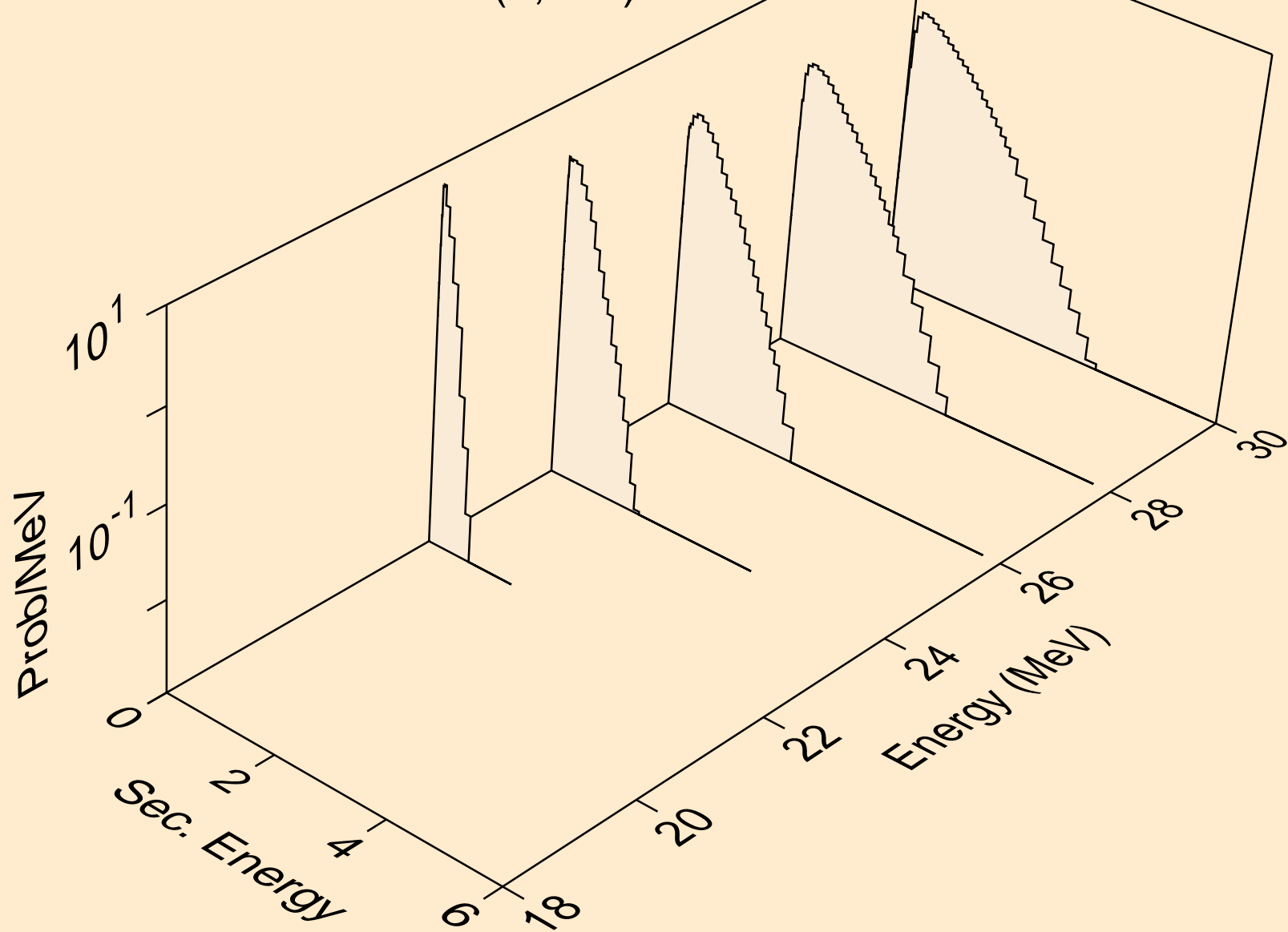
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angular distribution for (n,n\*16)



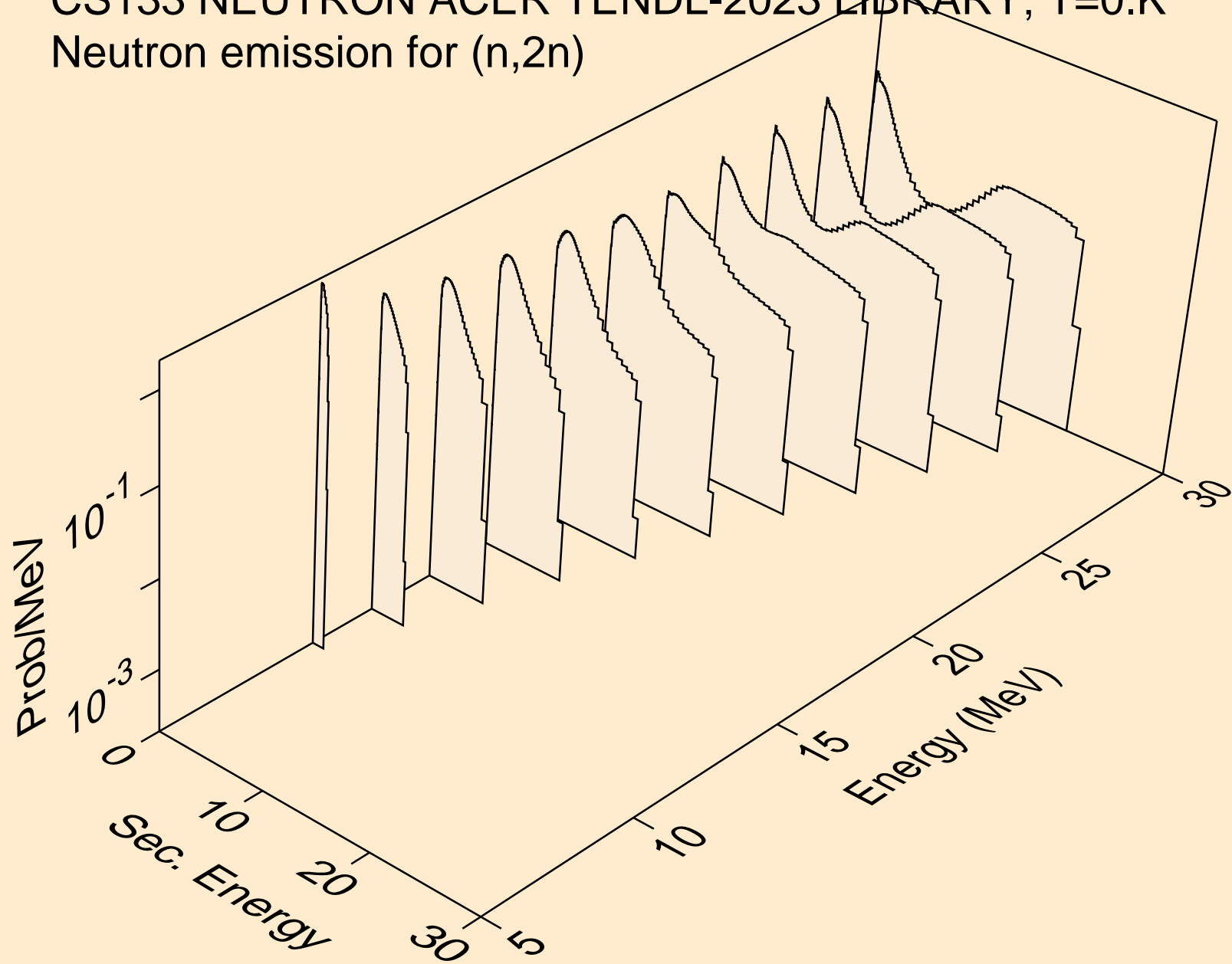
CS133 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,x)



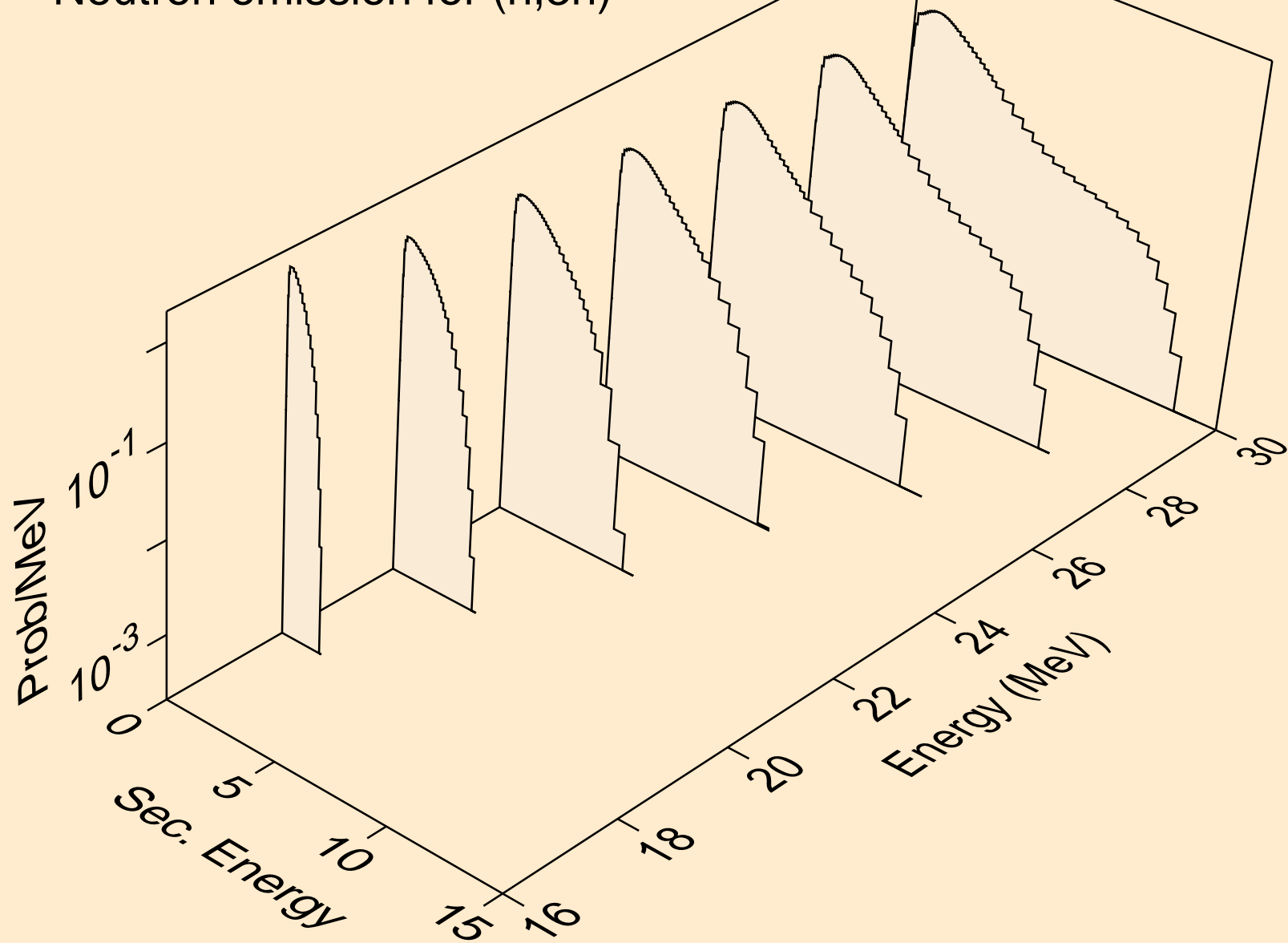
CS133 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,2nd)



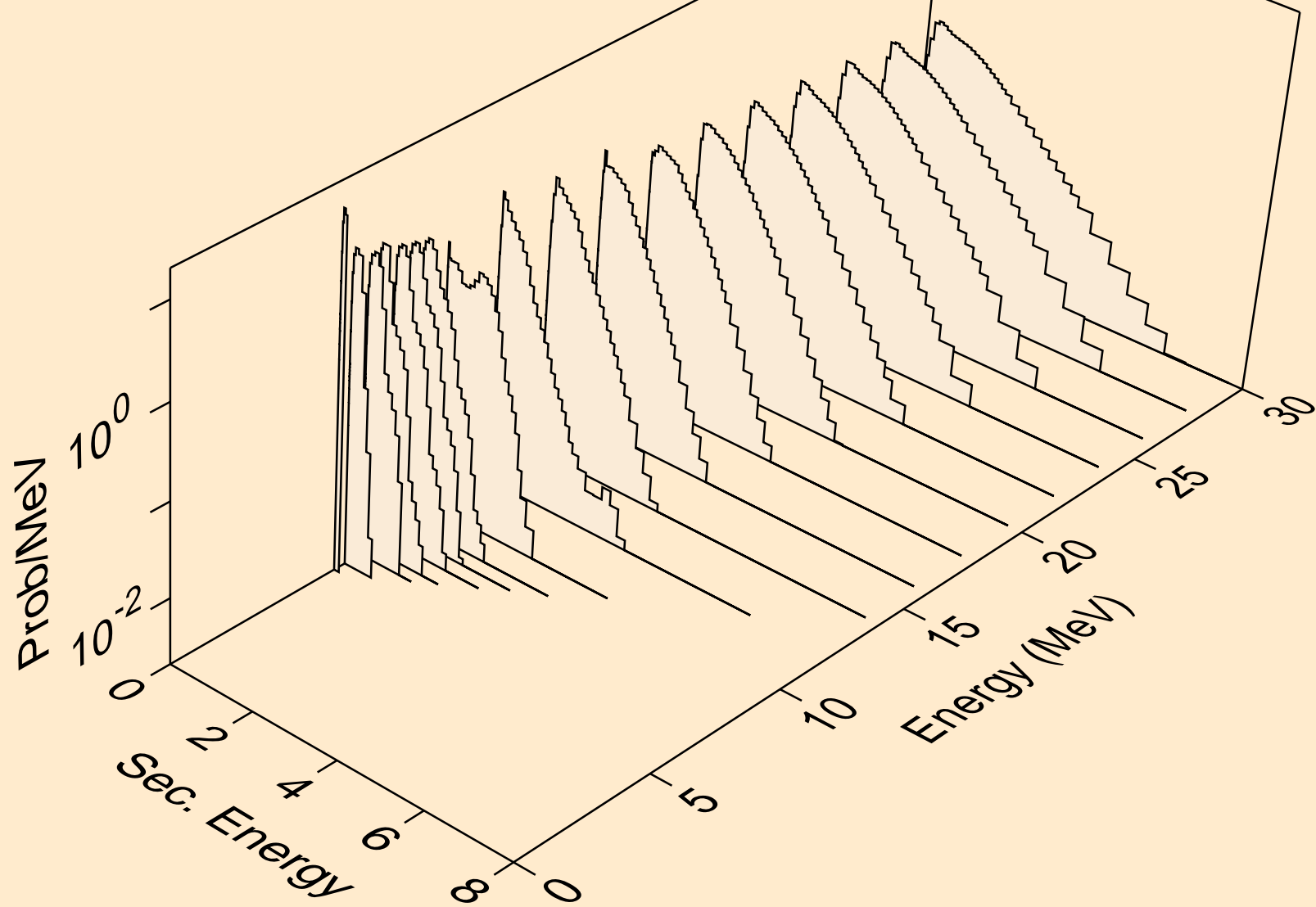
CS133 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,2n)



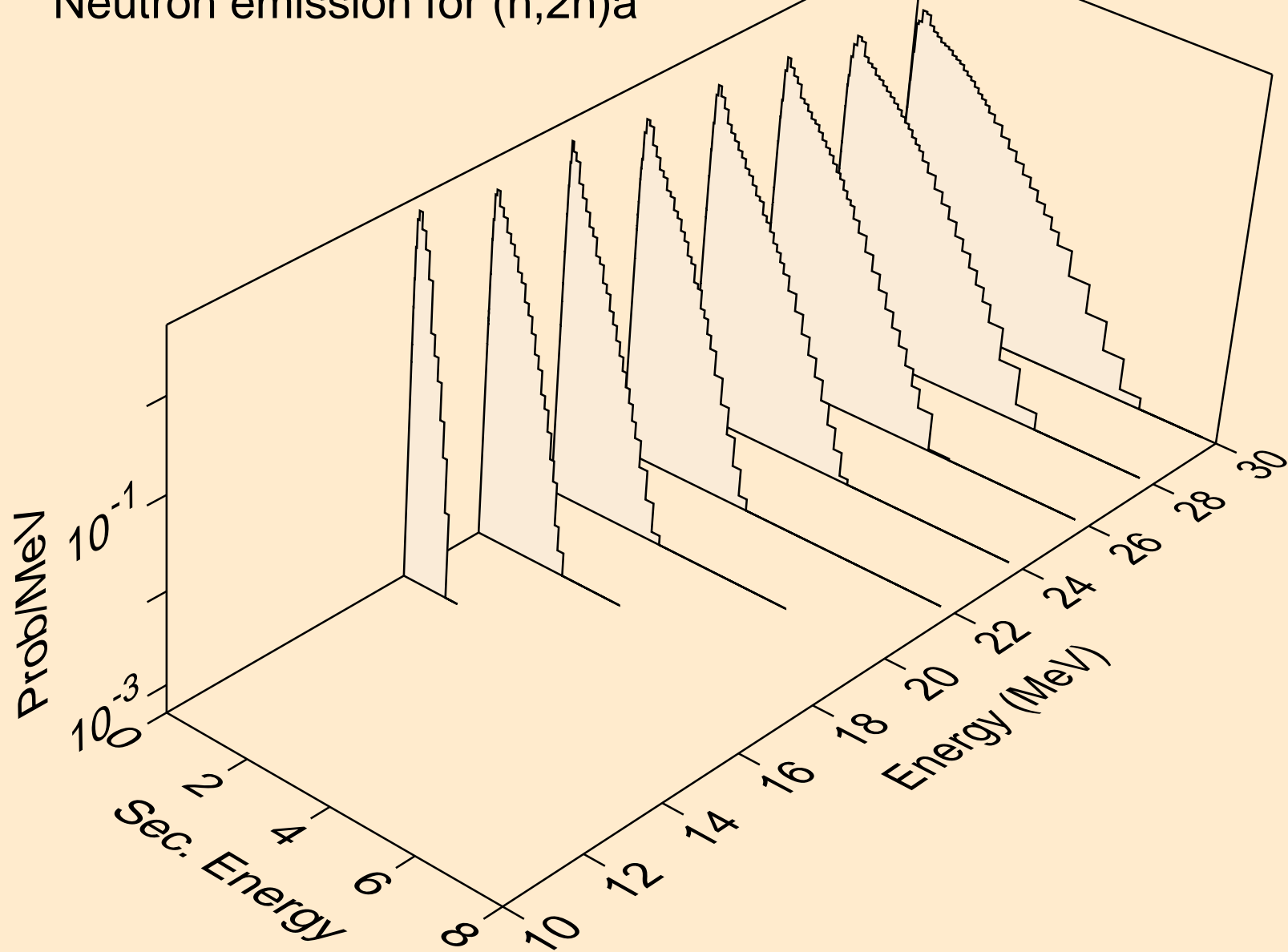
CS133 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,3n)



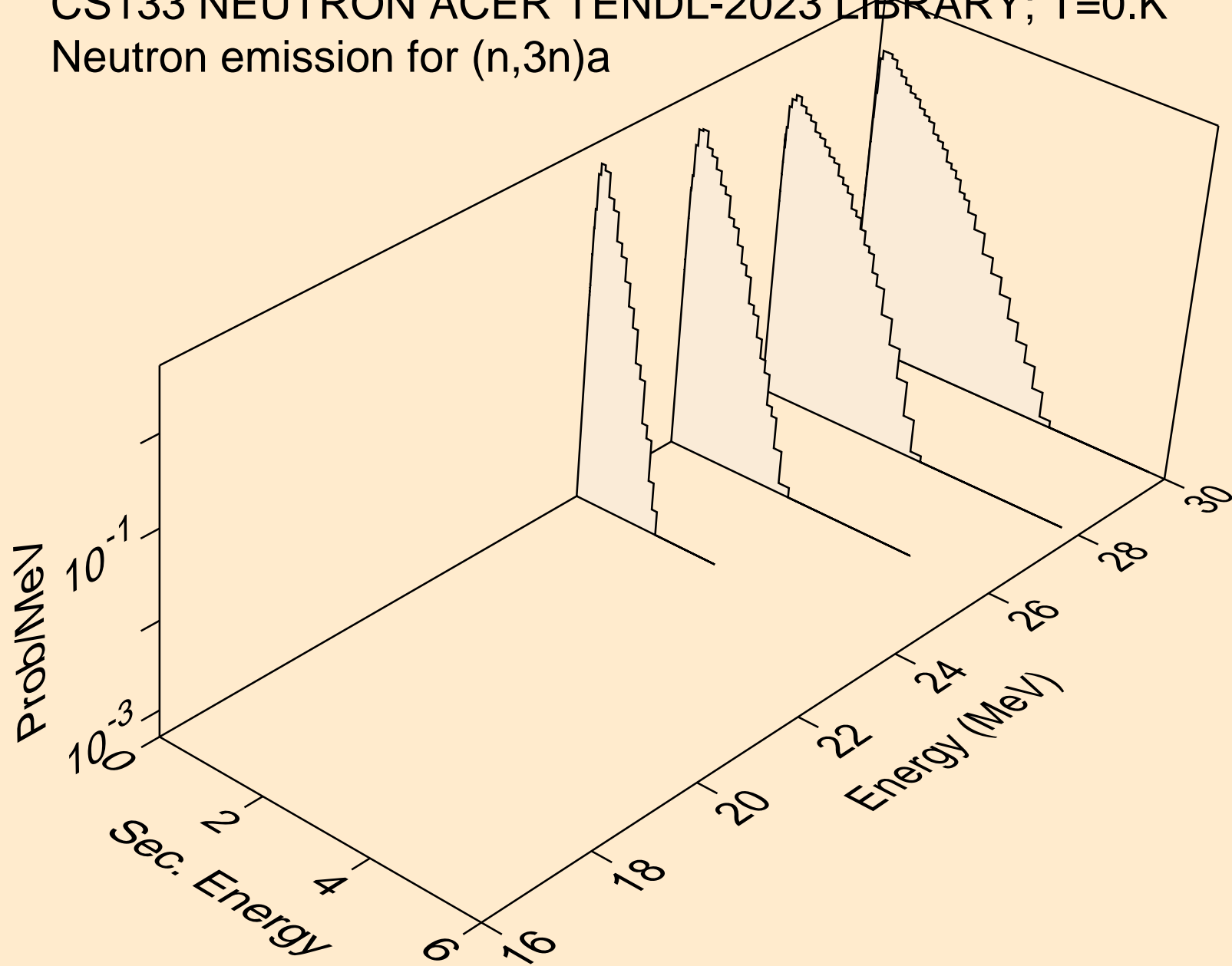
CS133 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,n\*)a



CS133 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,2n)a

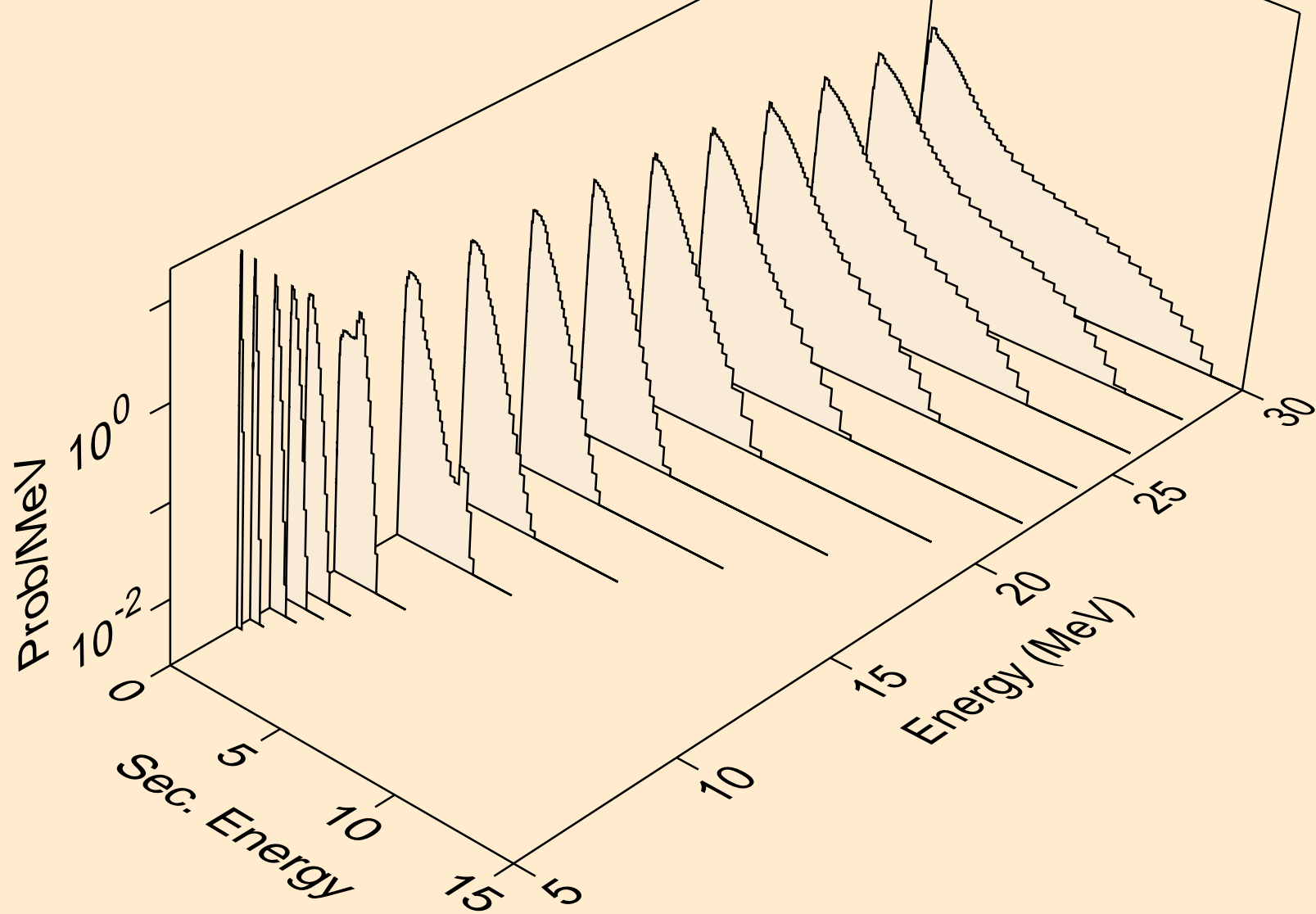


CS133 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,3n)a

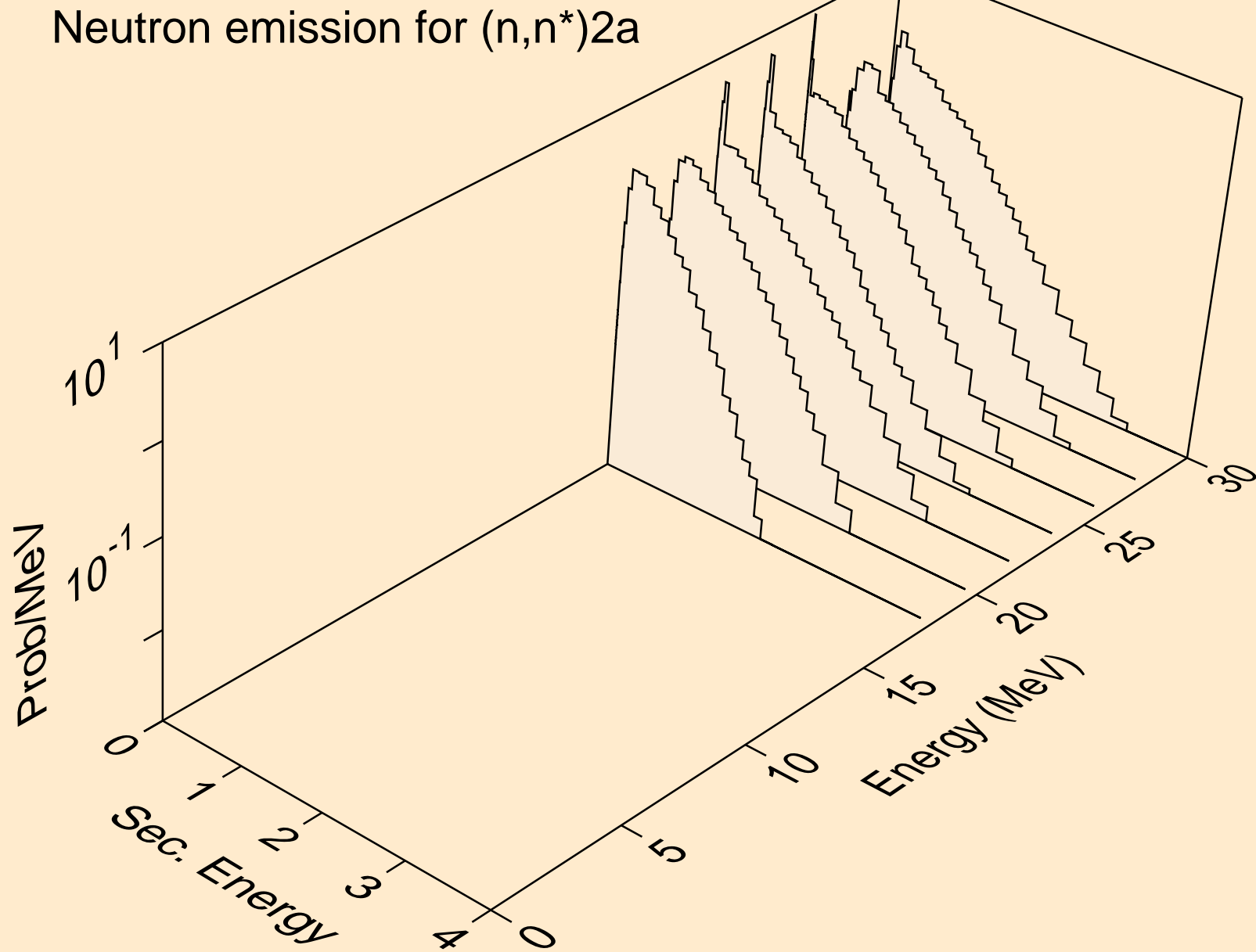




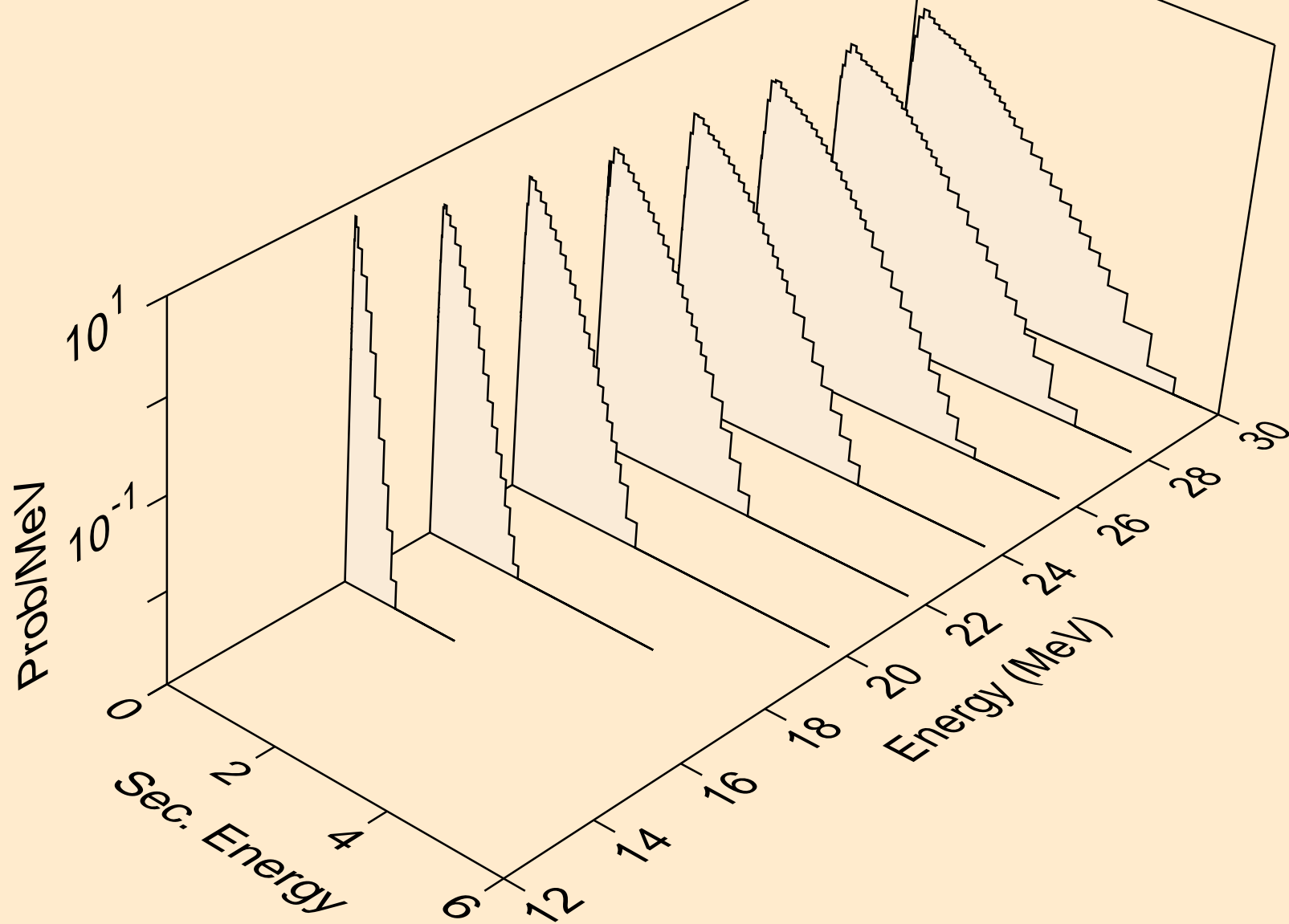
CS133 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,n\*)p



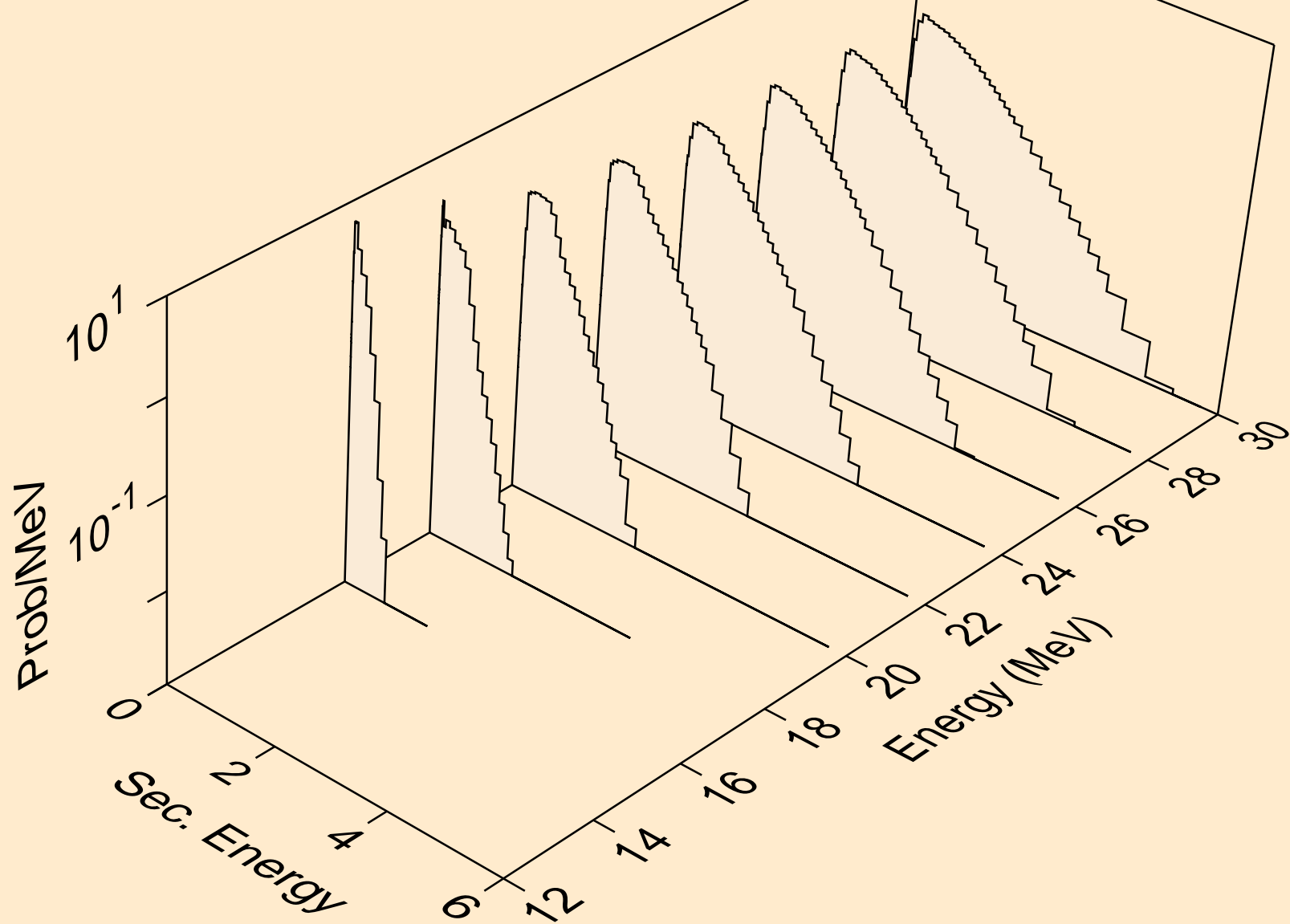
CS133 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,n\*)2a



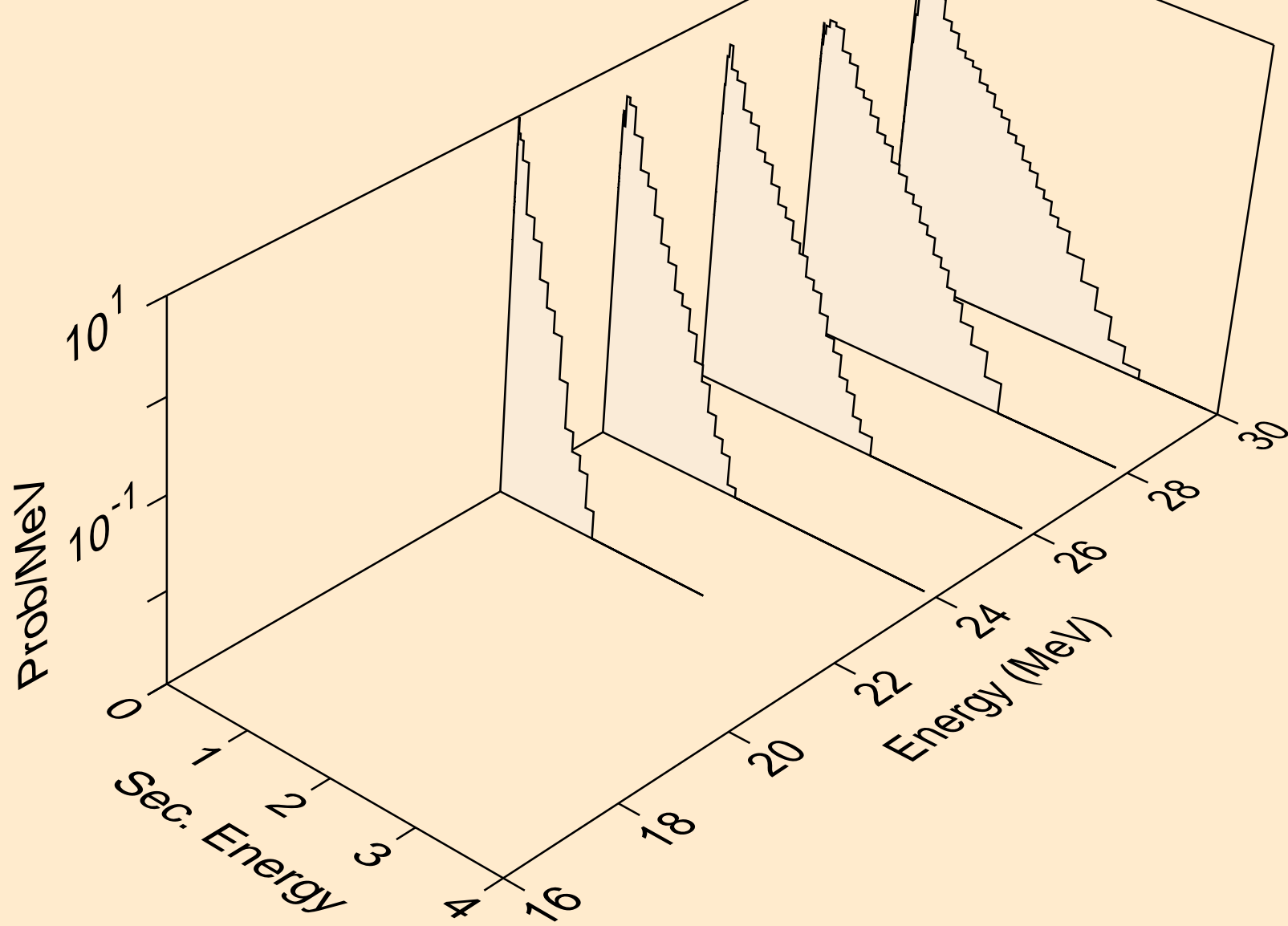
CS133 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,n\*)d



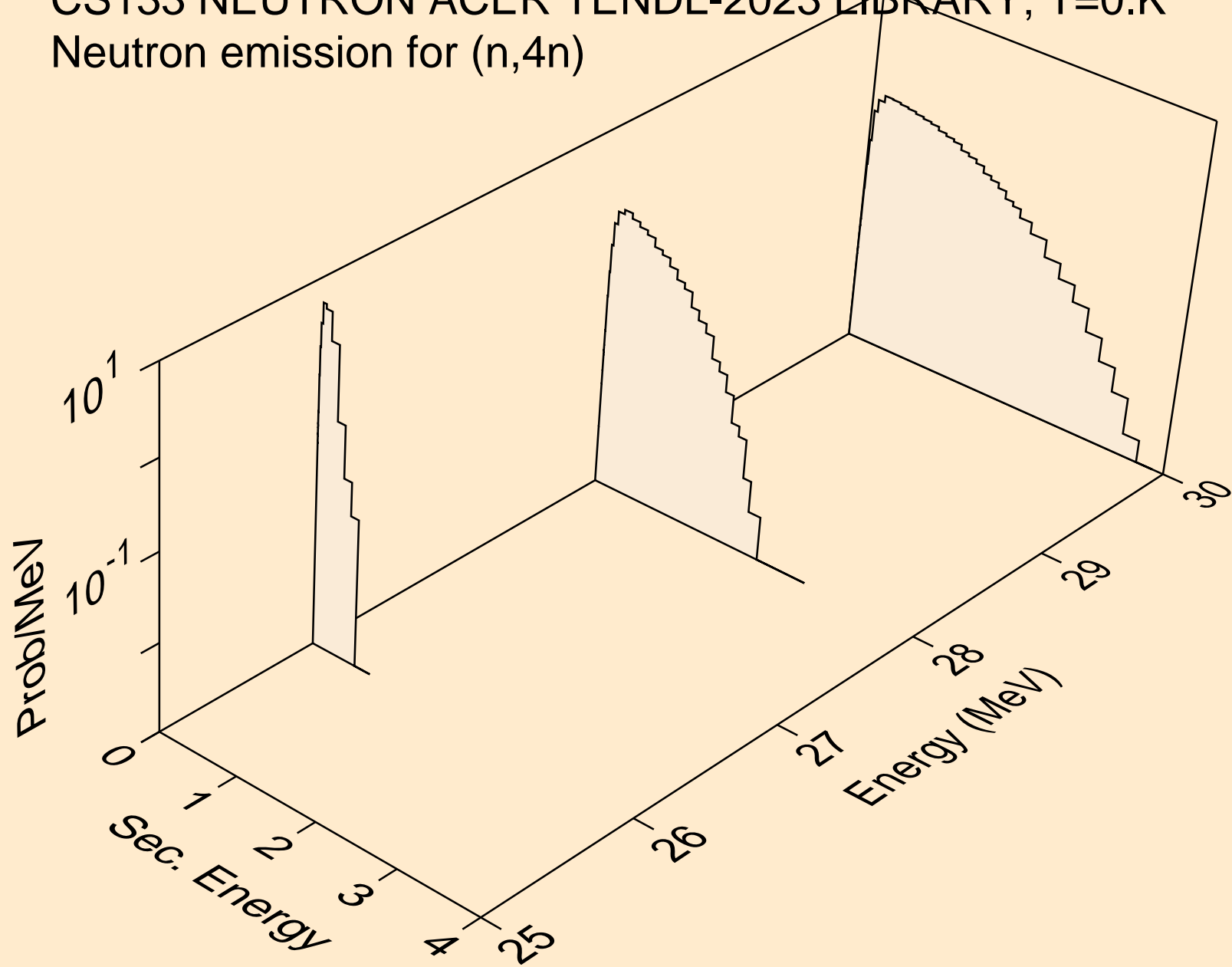
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Neutron emission for (n,n\*)t



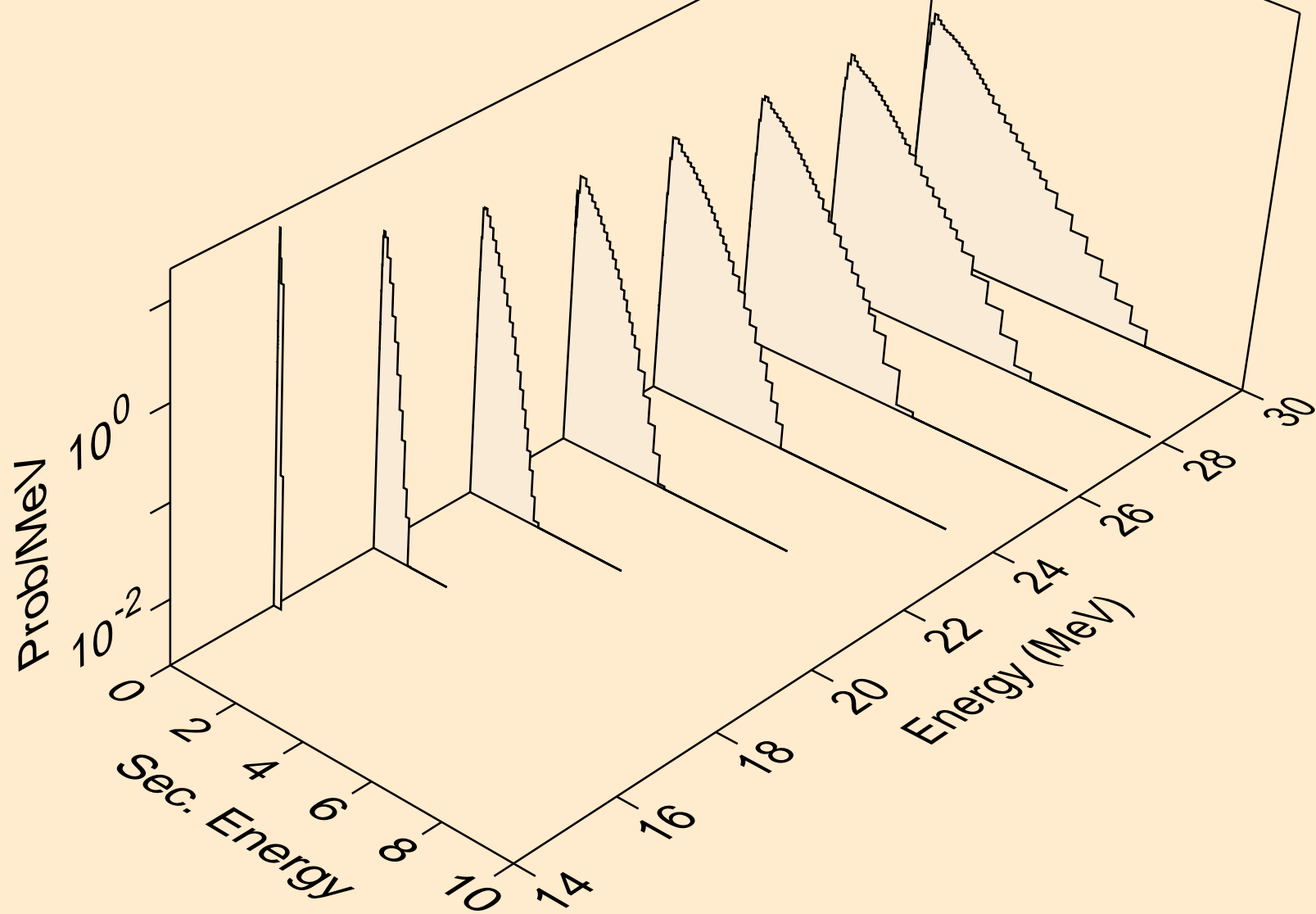
CS133 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,n\*)he3



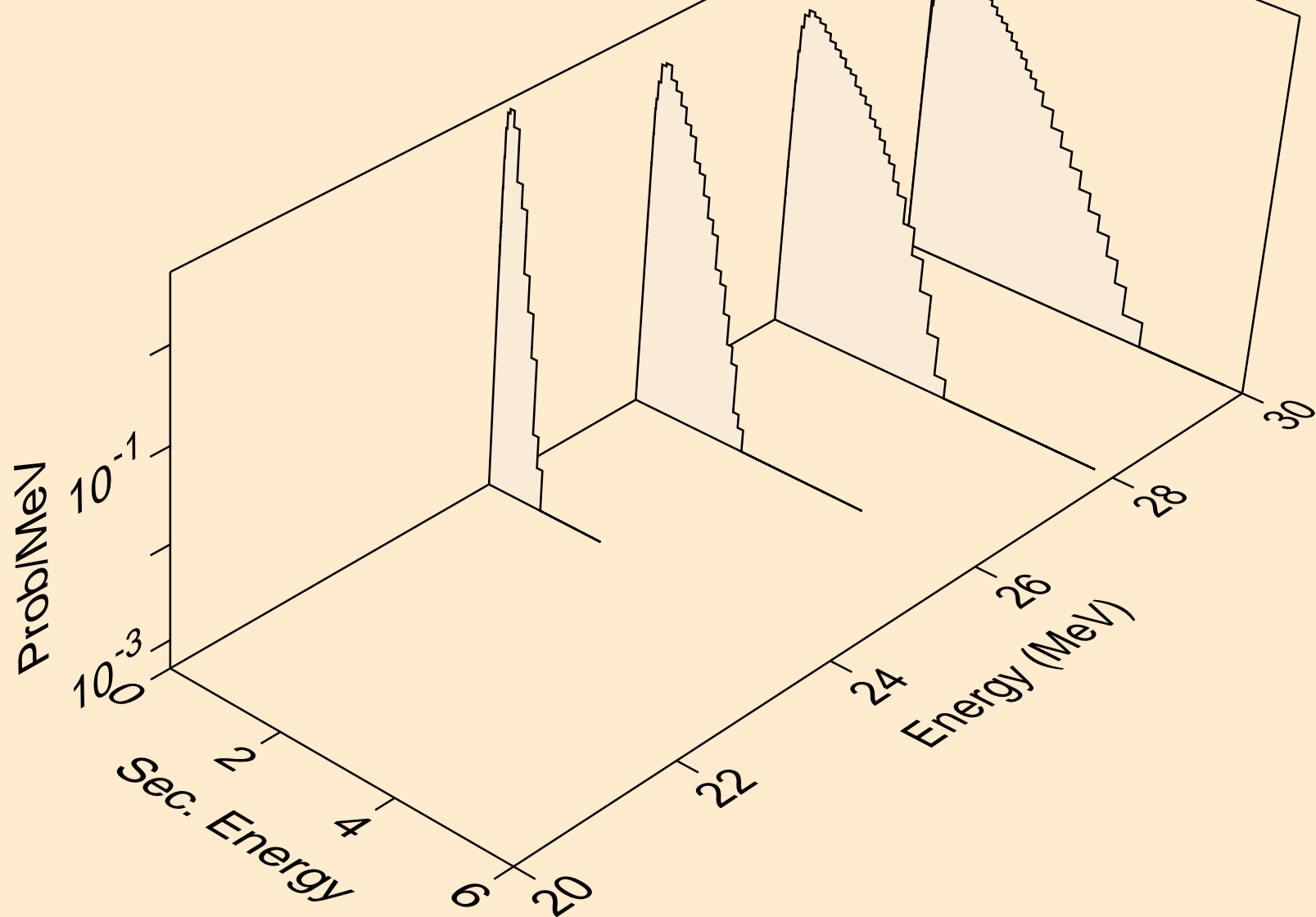
CS133 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,4n)



CS133 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,2np)

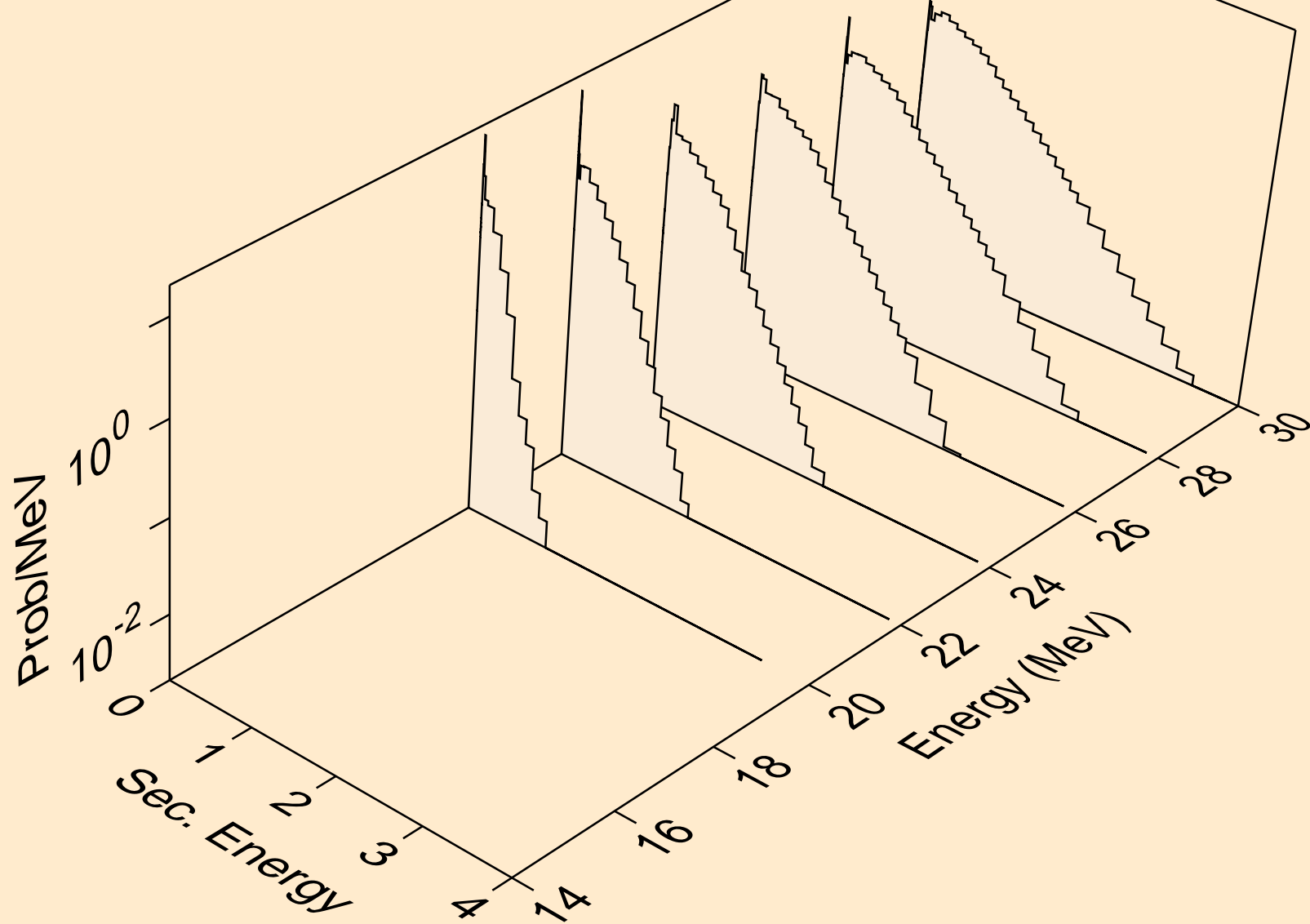


CS133 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,3np)

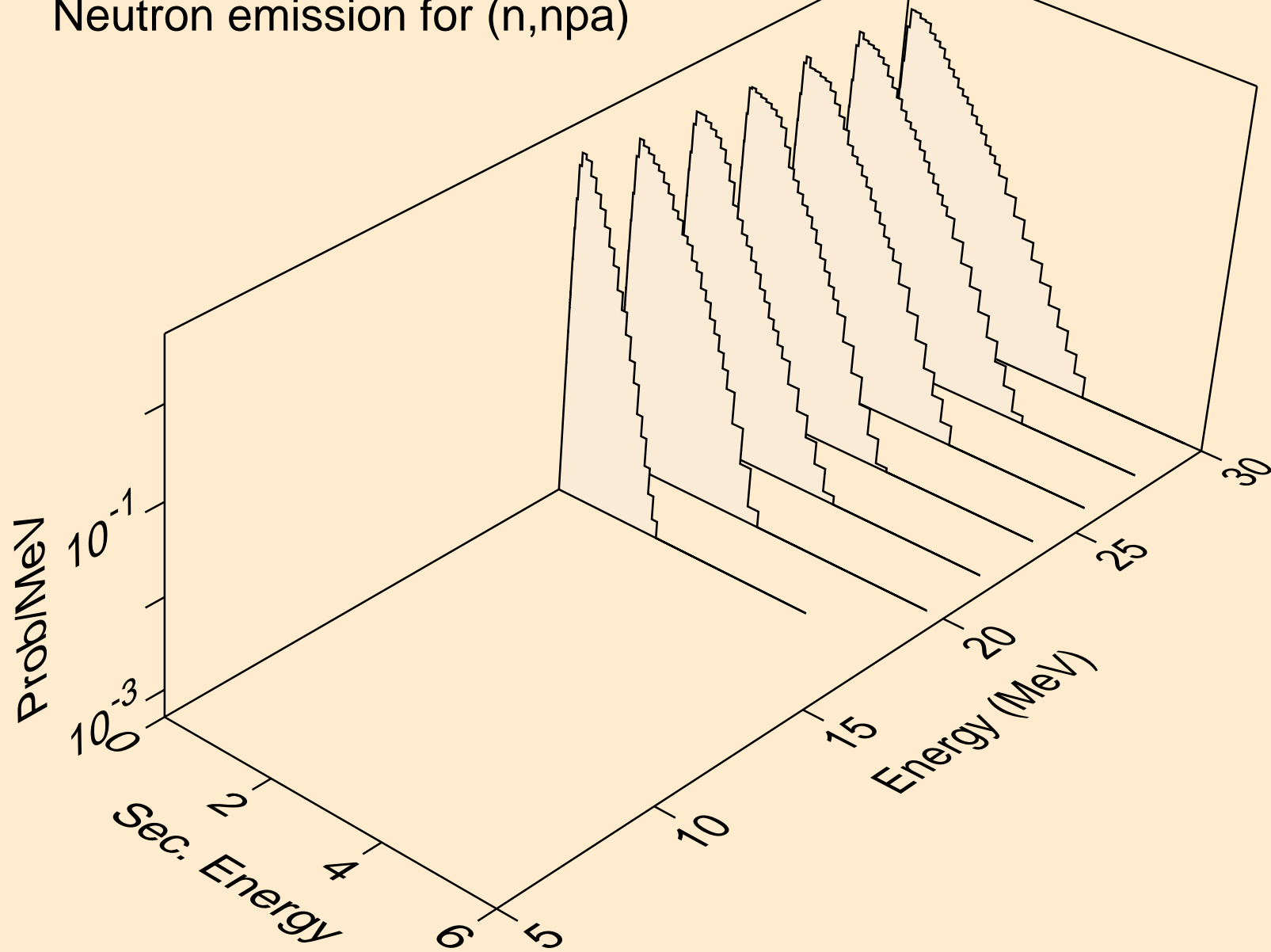




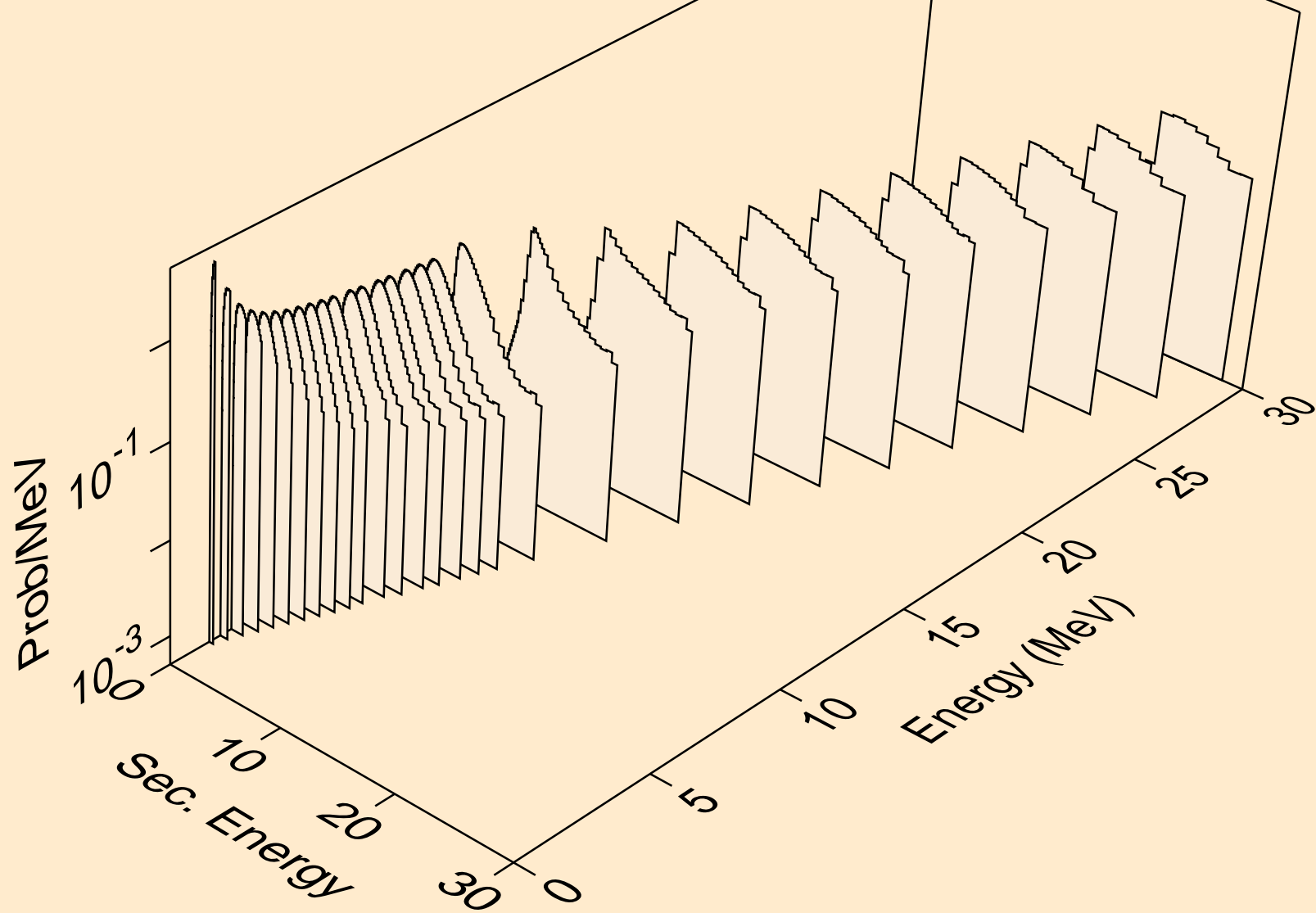
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Neutron emission for (n,n2p)



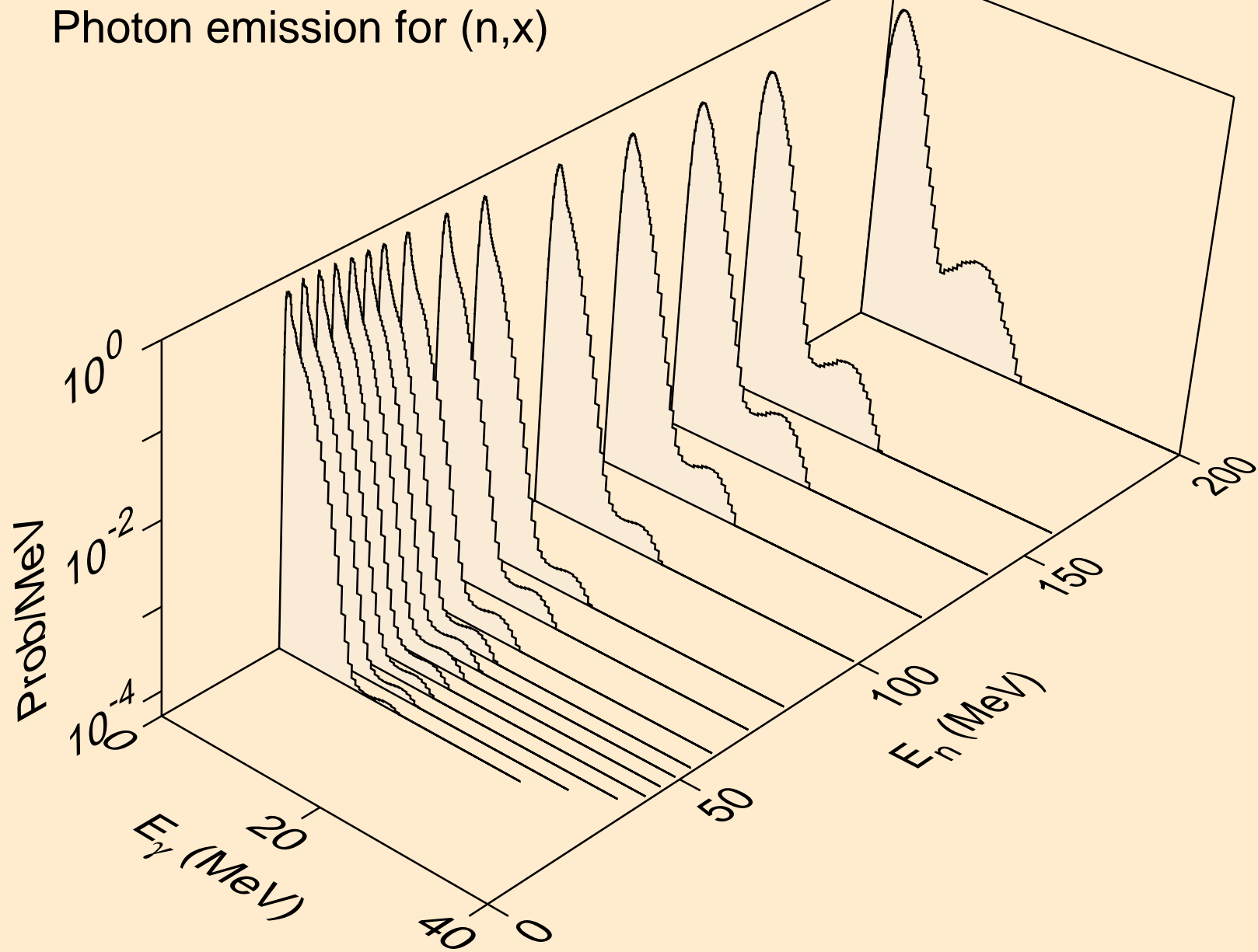
CS133 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,npa)



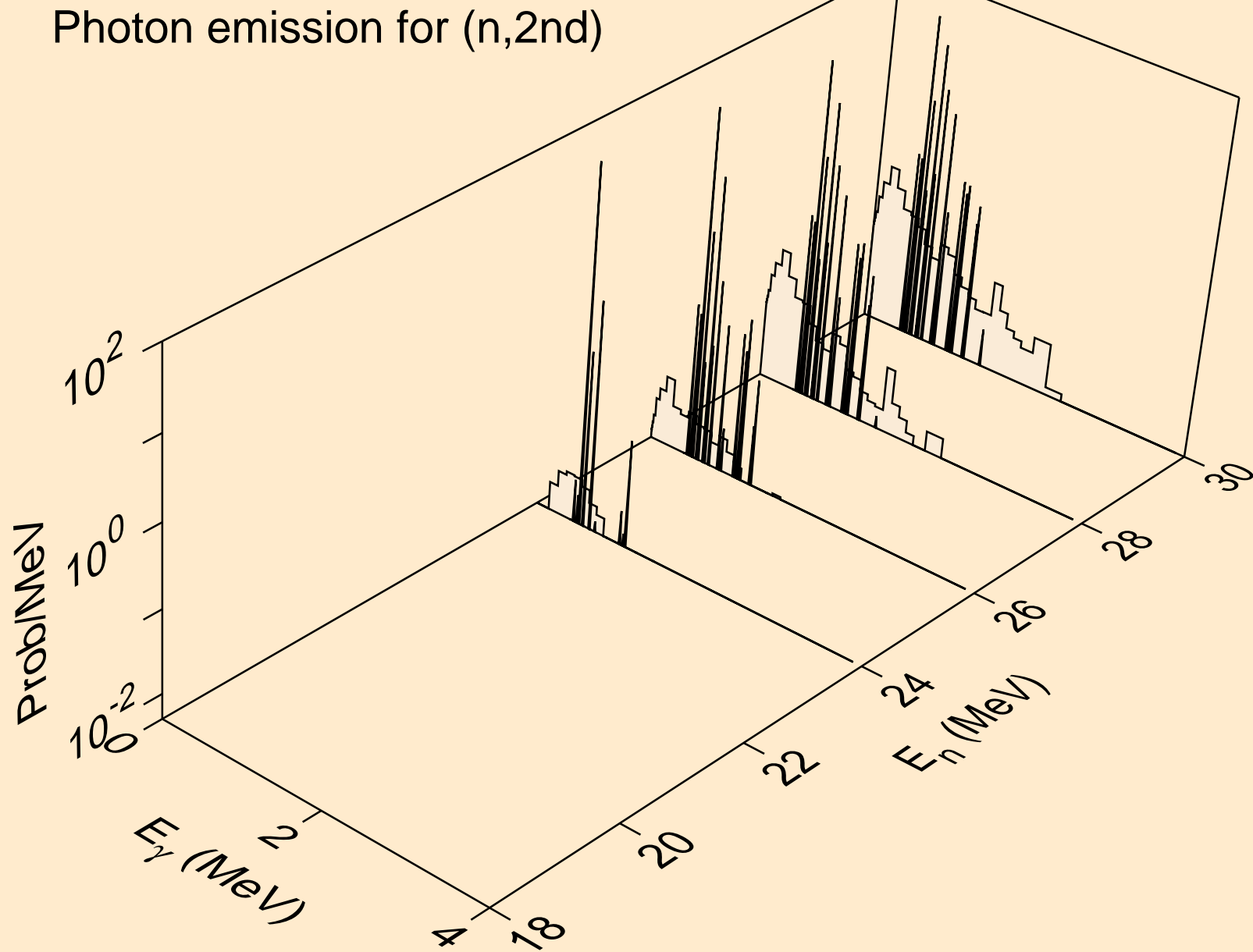
CS133 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,n\*c)



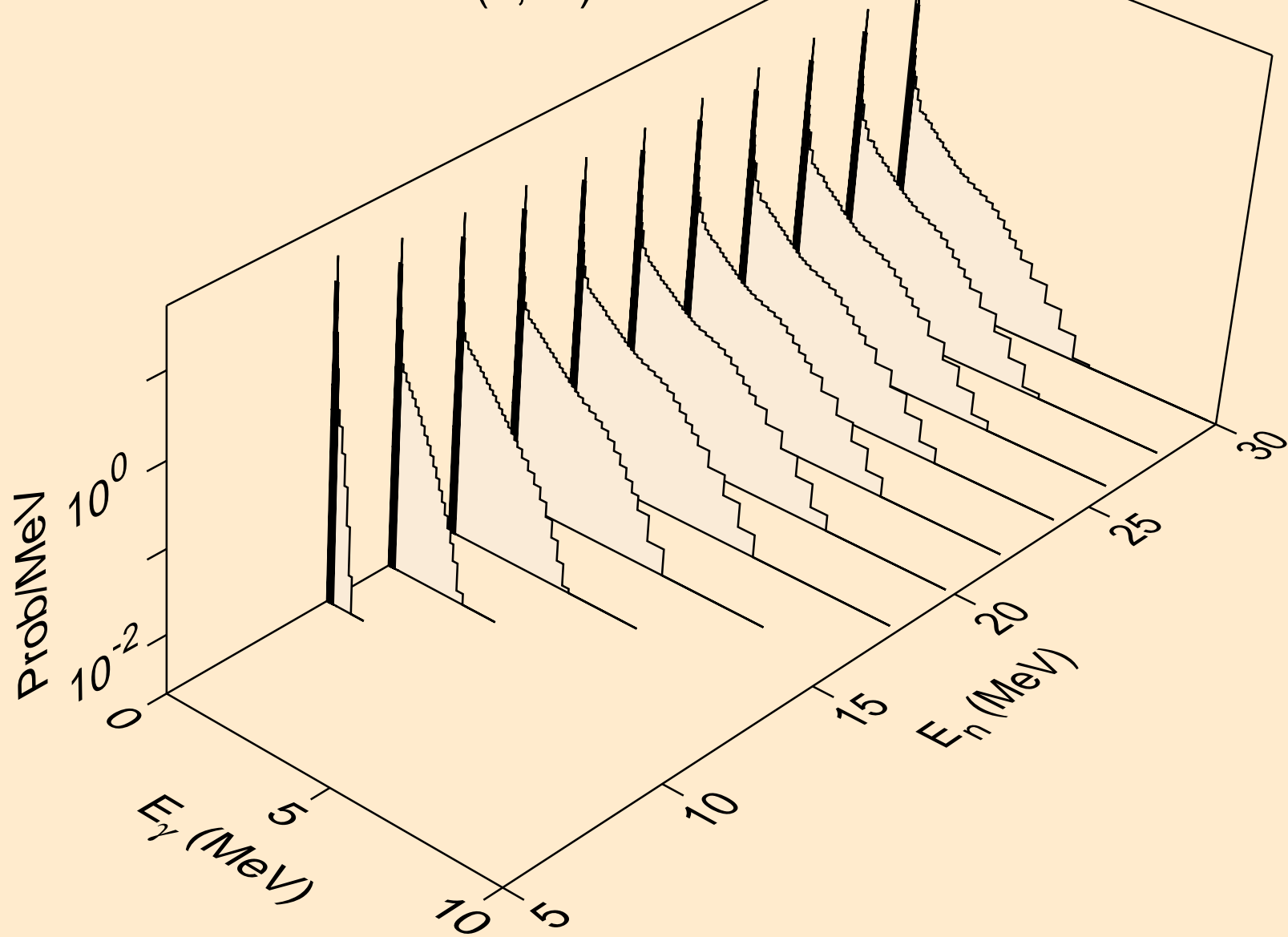
CS133 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,x)



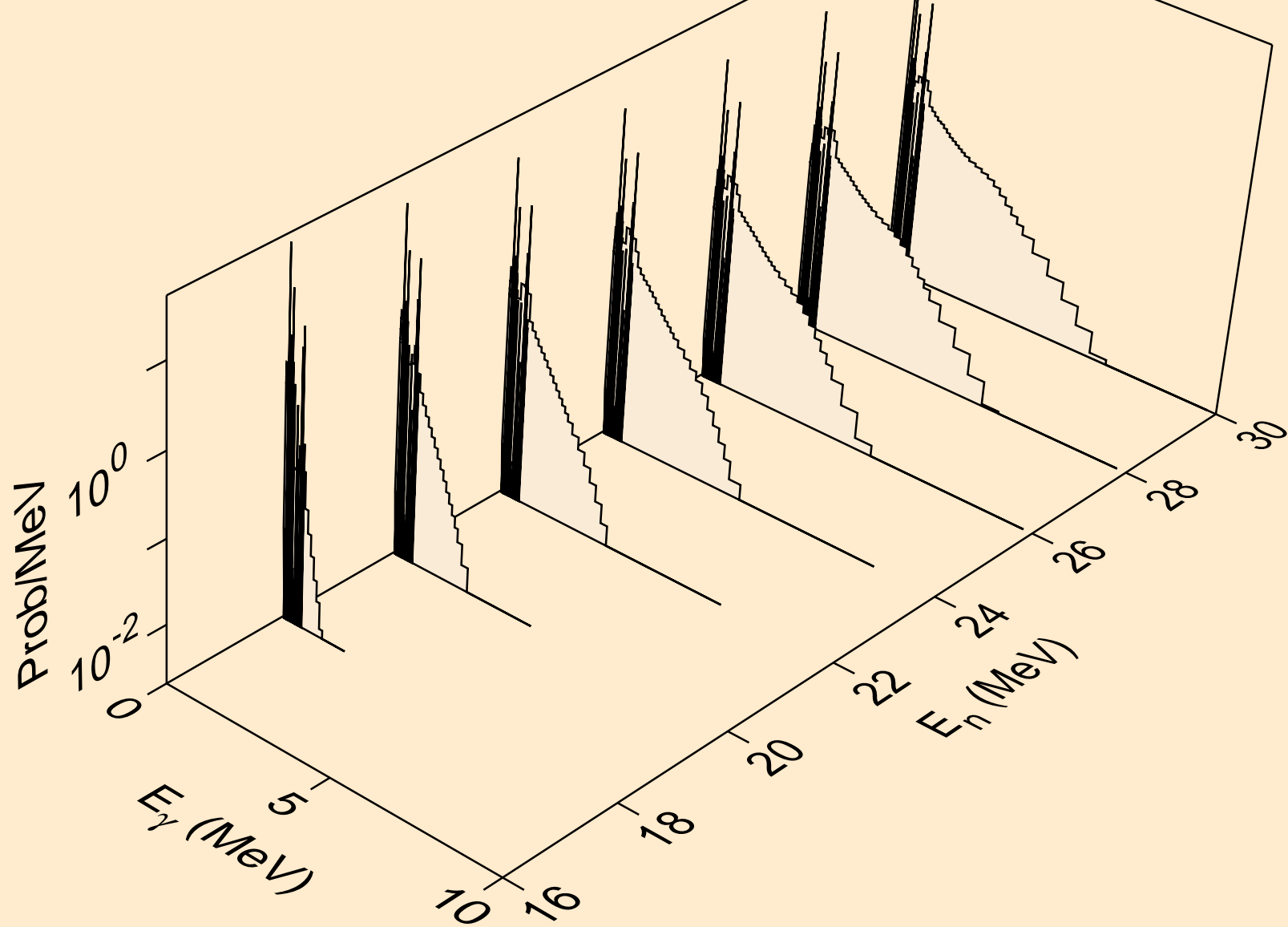
CS133 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2nd)



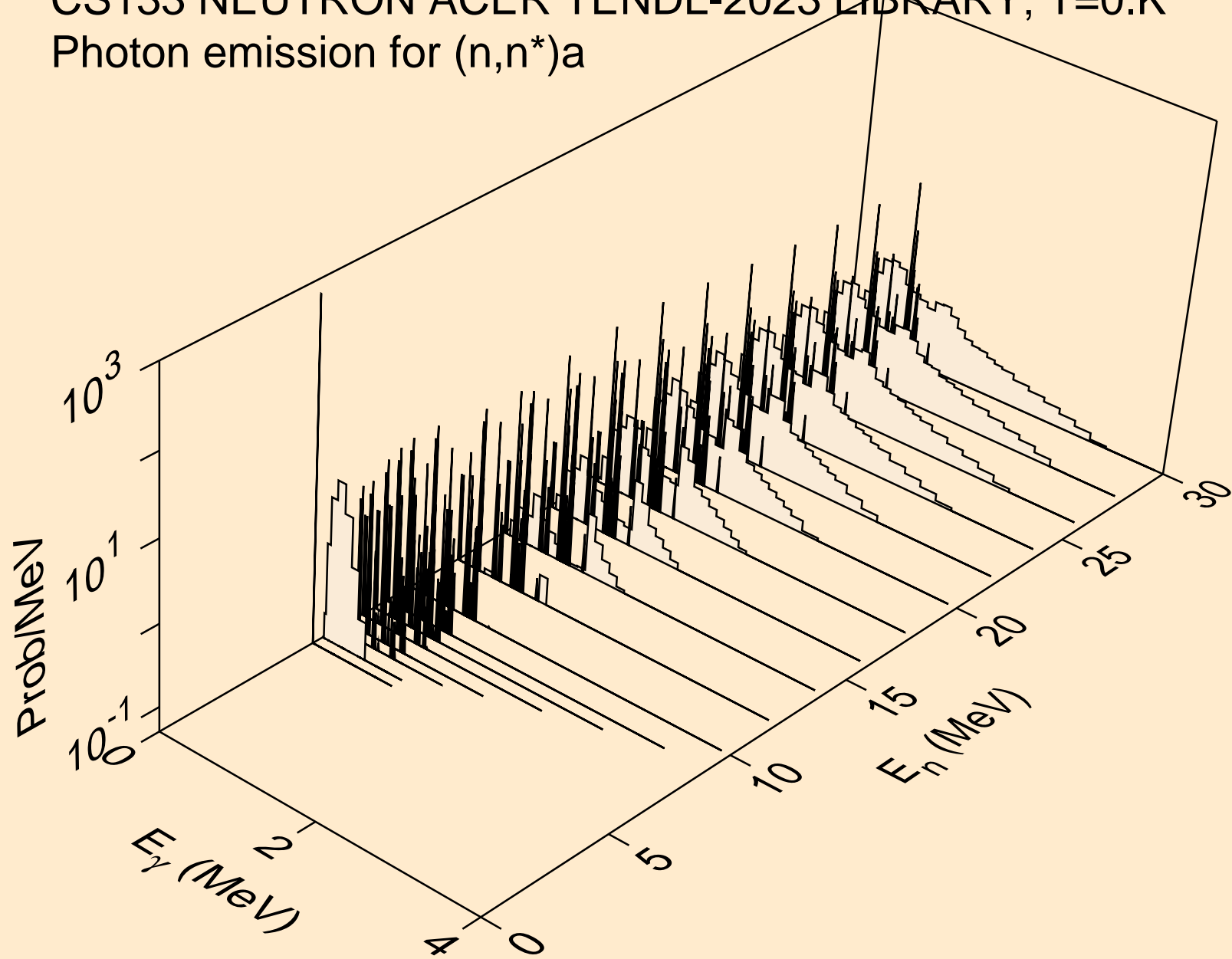
CS133 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2n)



CS133 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,3n)

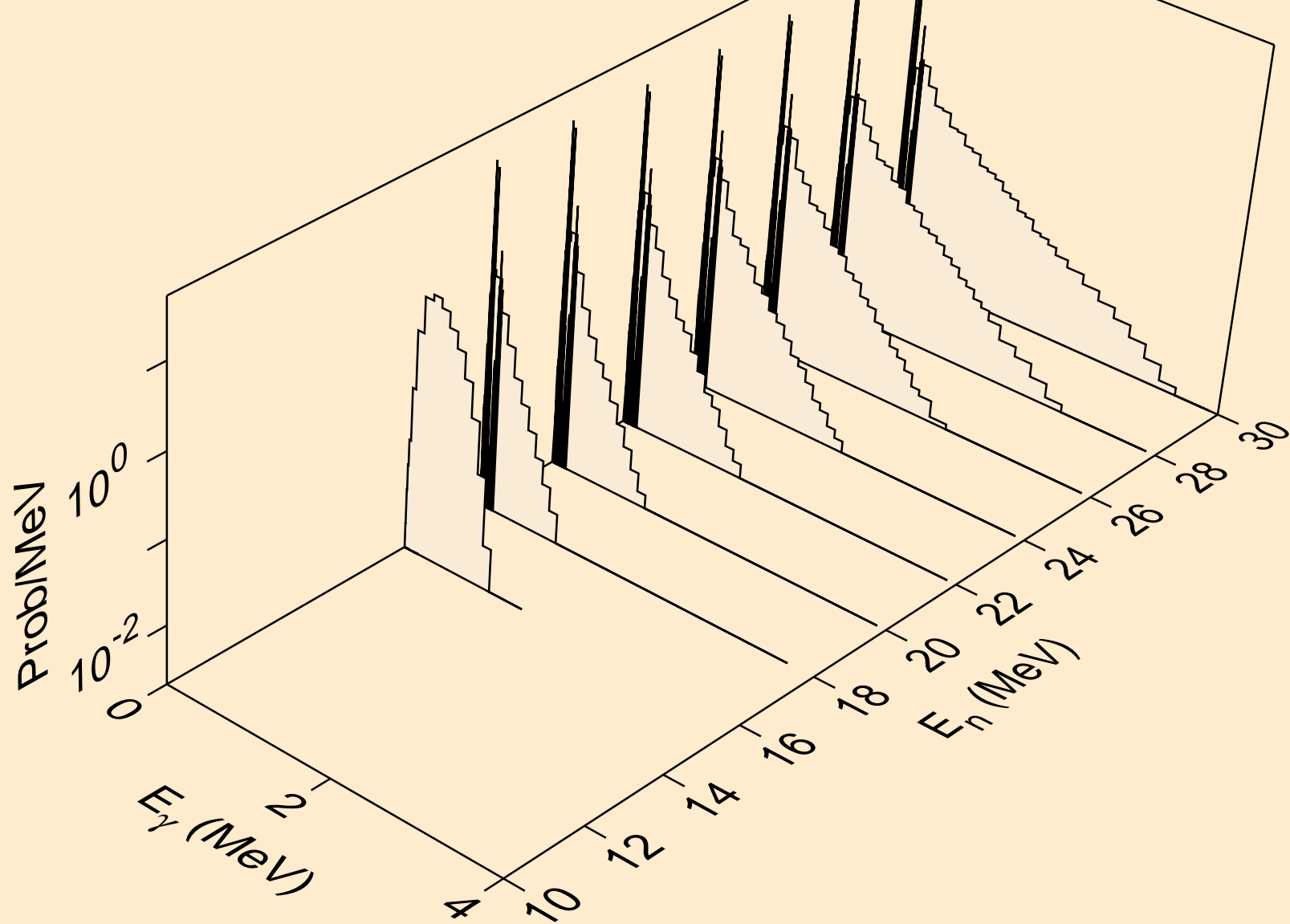


CS133 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)a

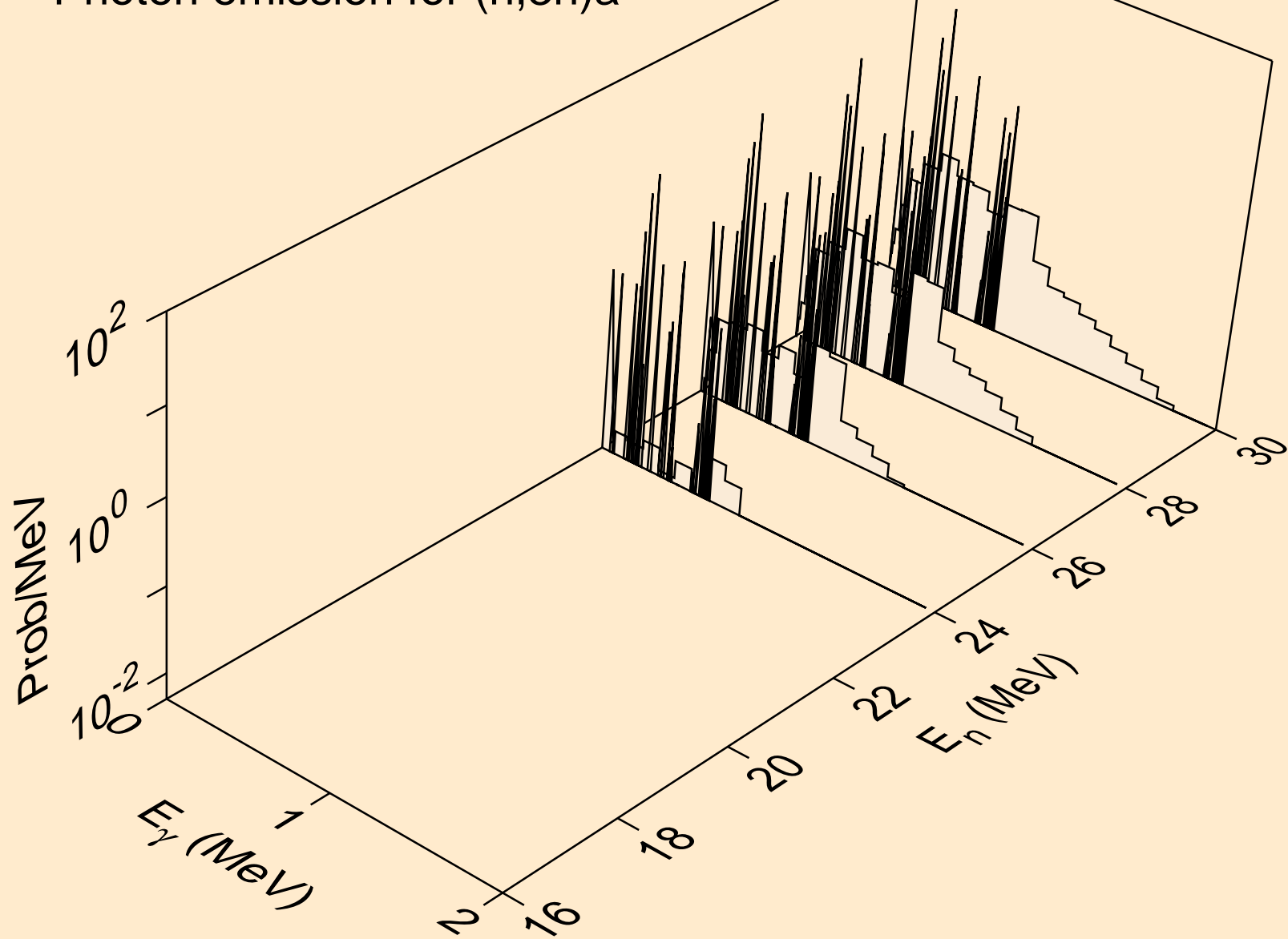




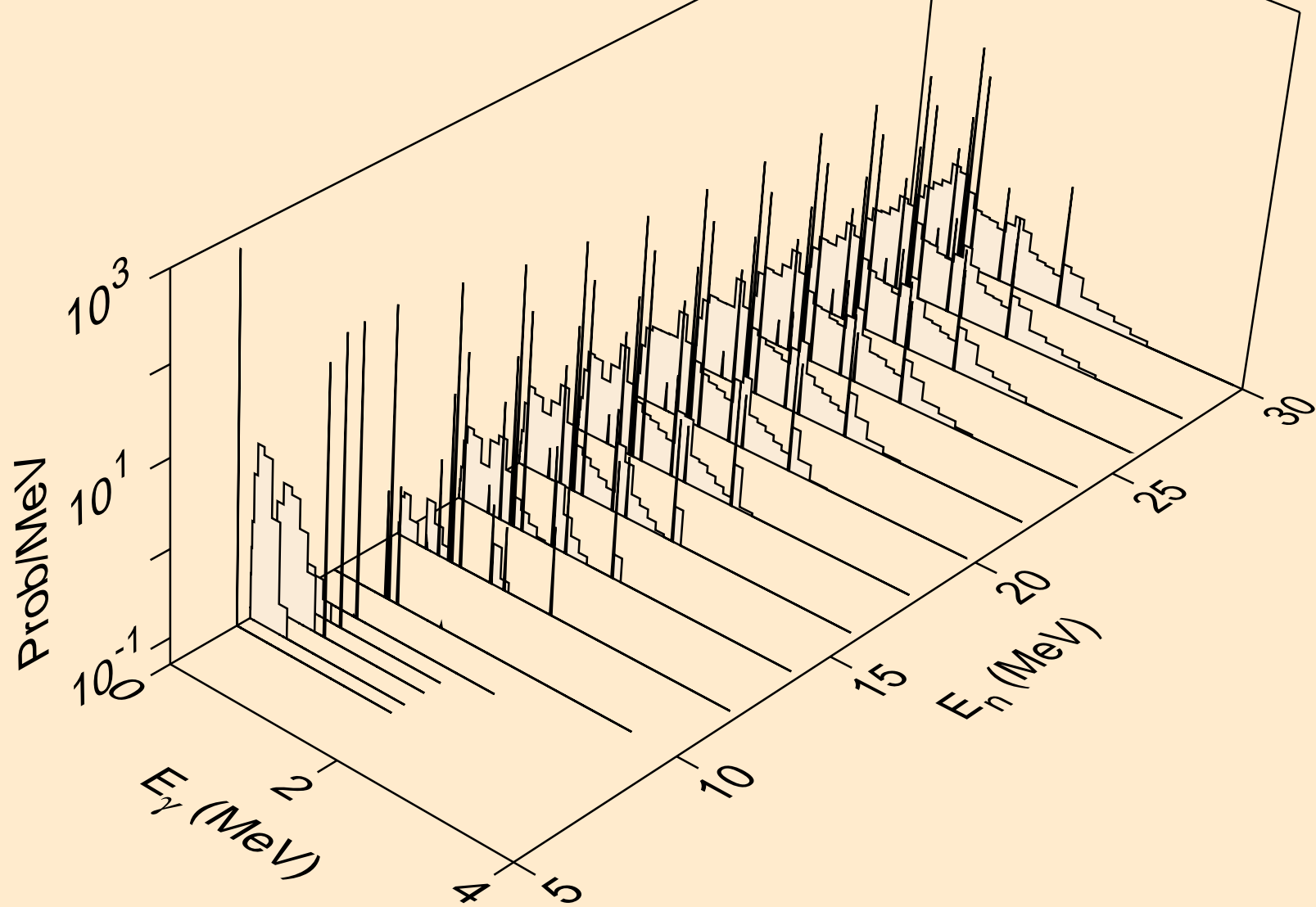
CS133 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2n)a



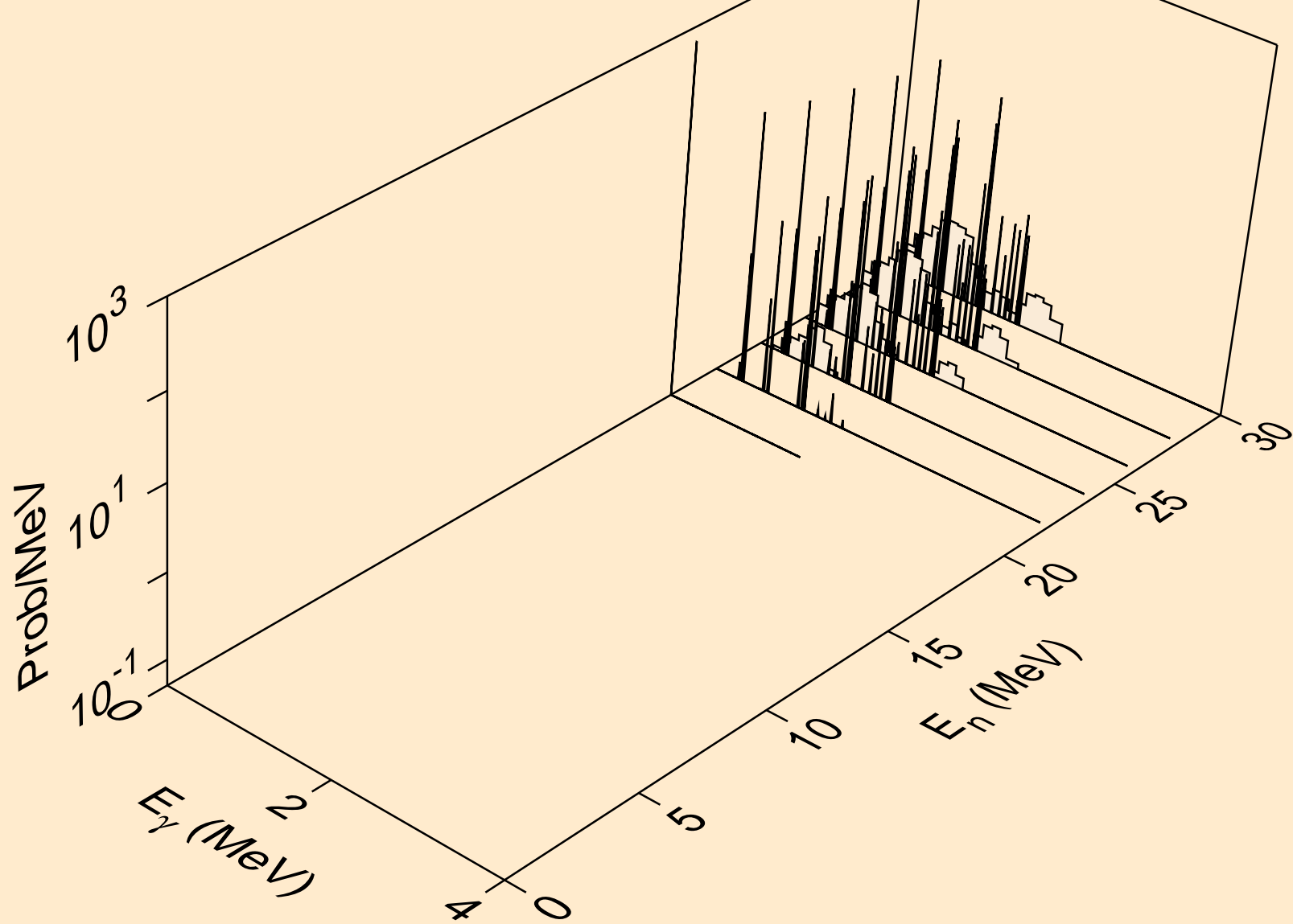
CS133 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,3n)a



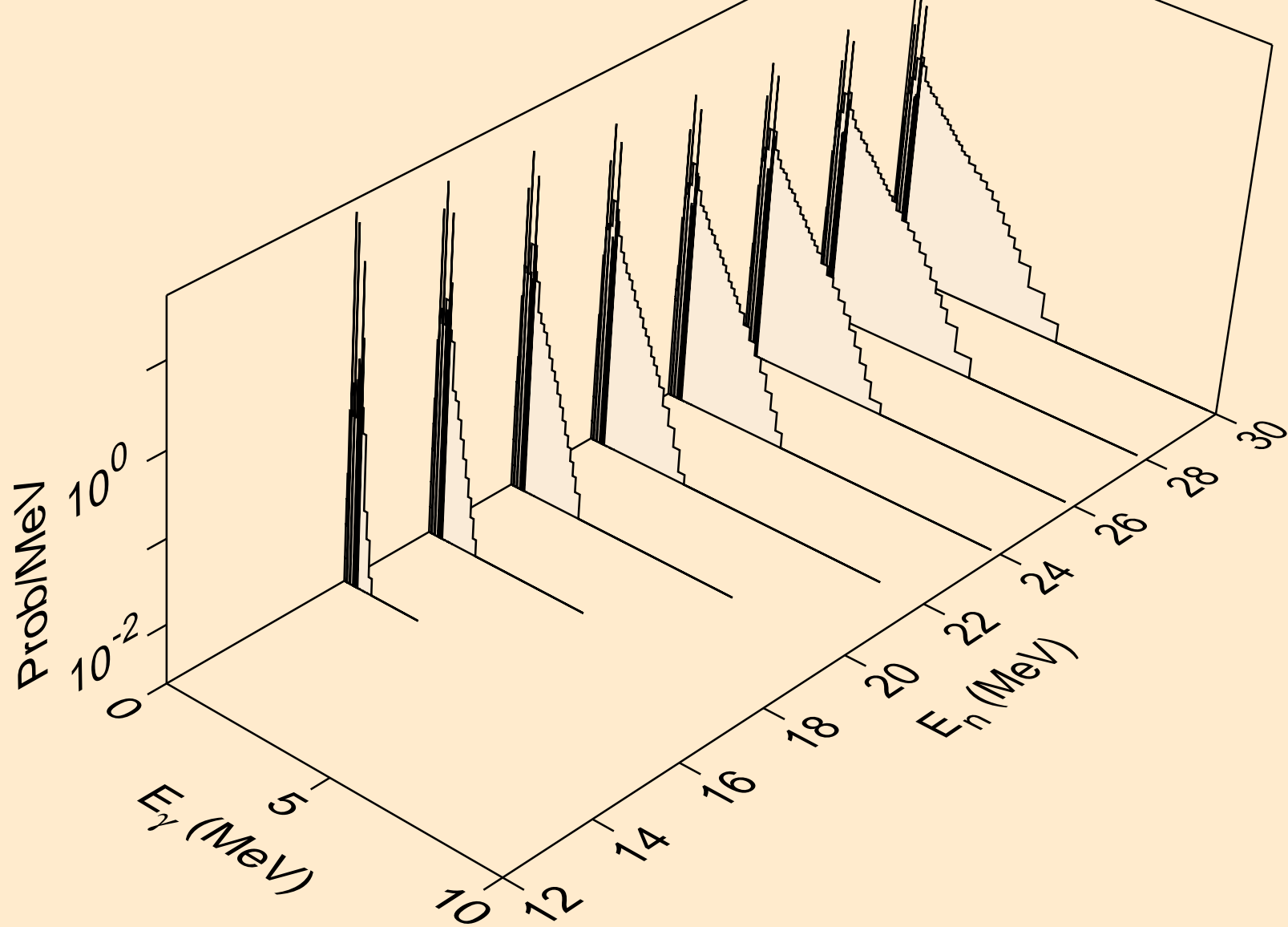
CS133 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)p



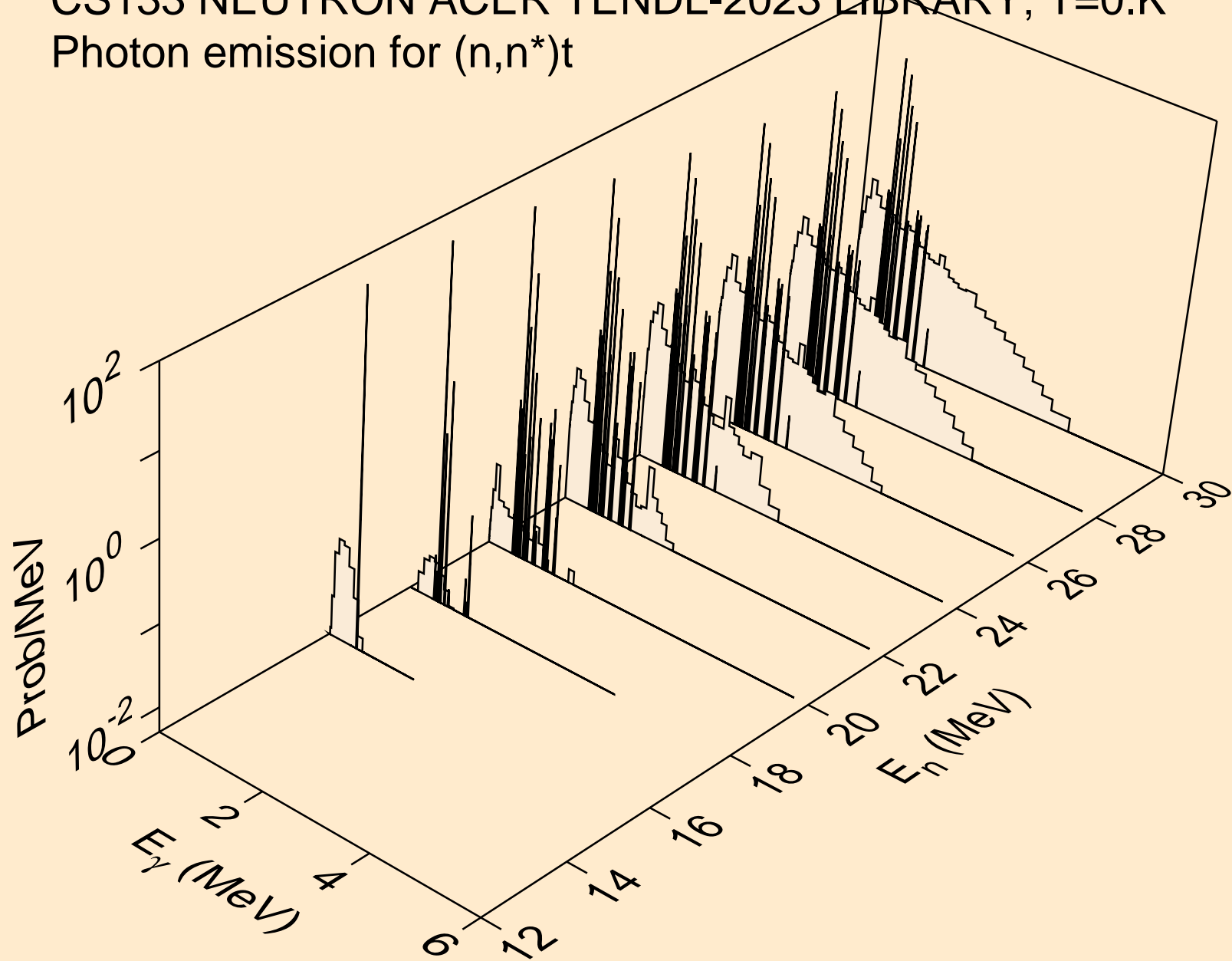
CS133 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)2a



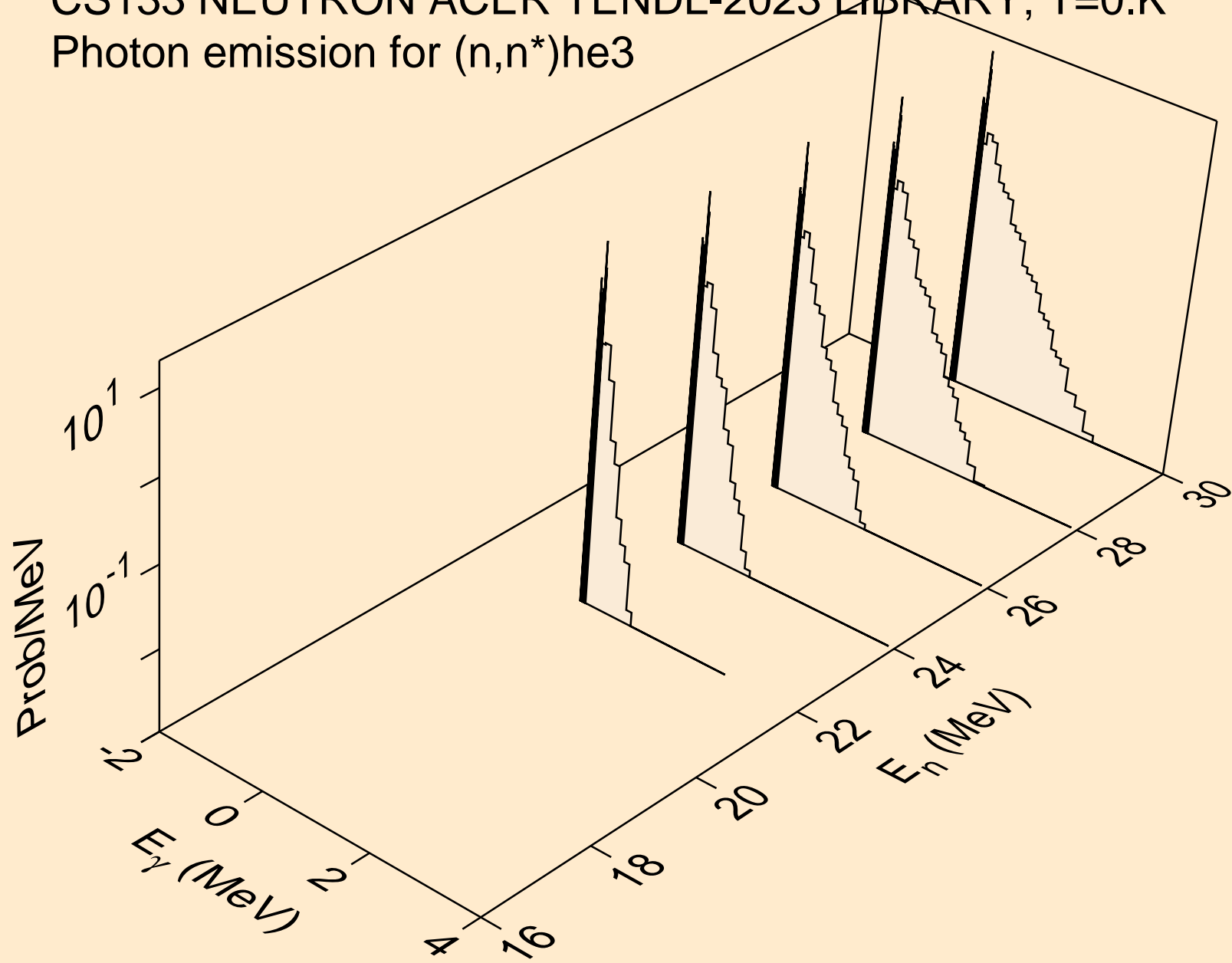
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Photon emission for (n,n\*)d



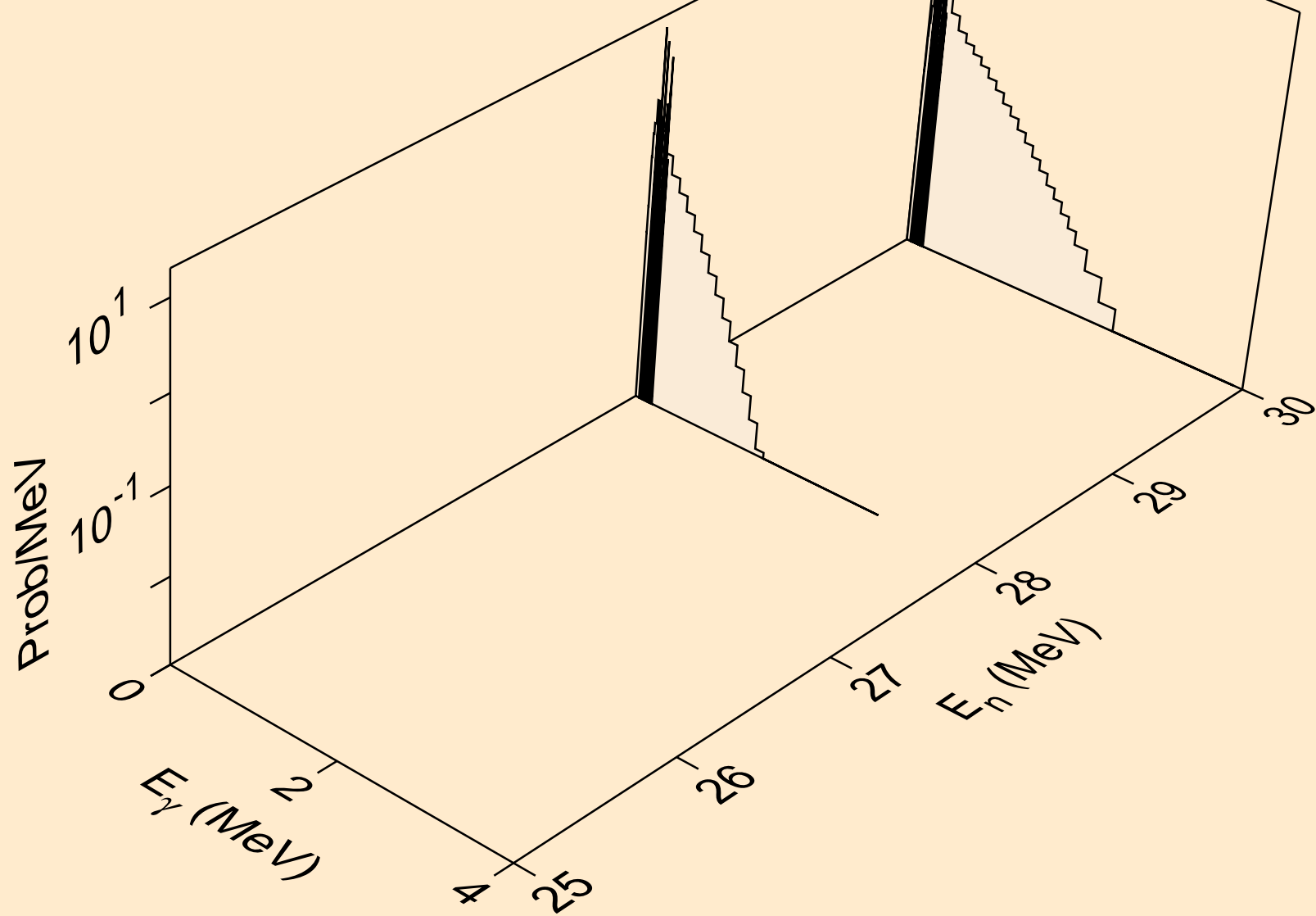
CS133 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)t



CS133 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)he3

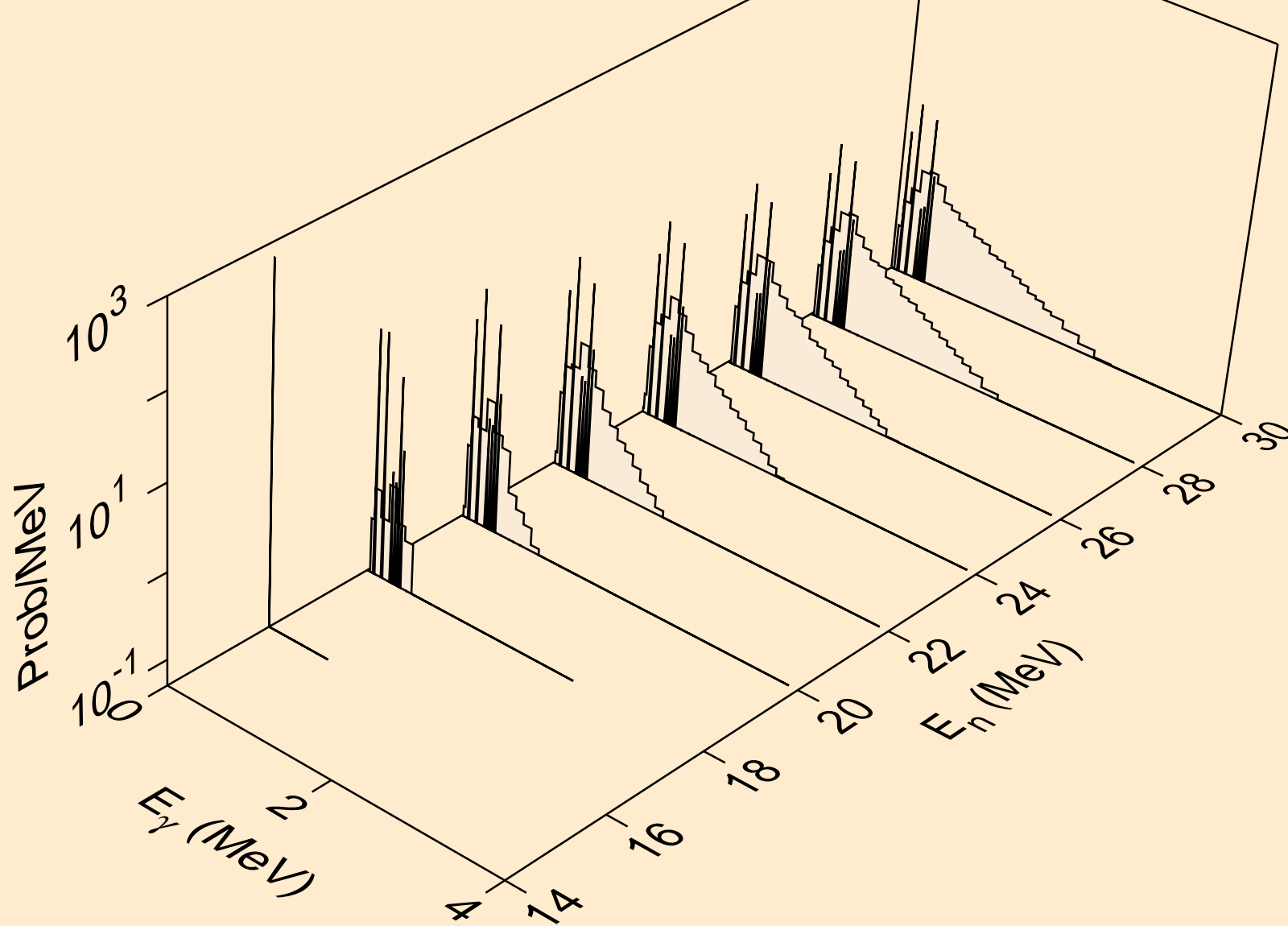


CS133 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,4n)

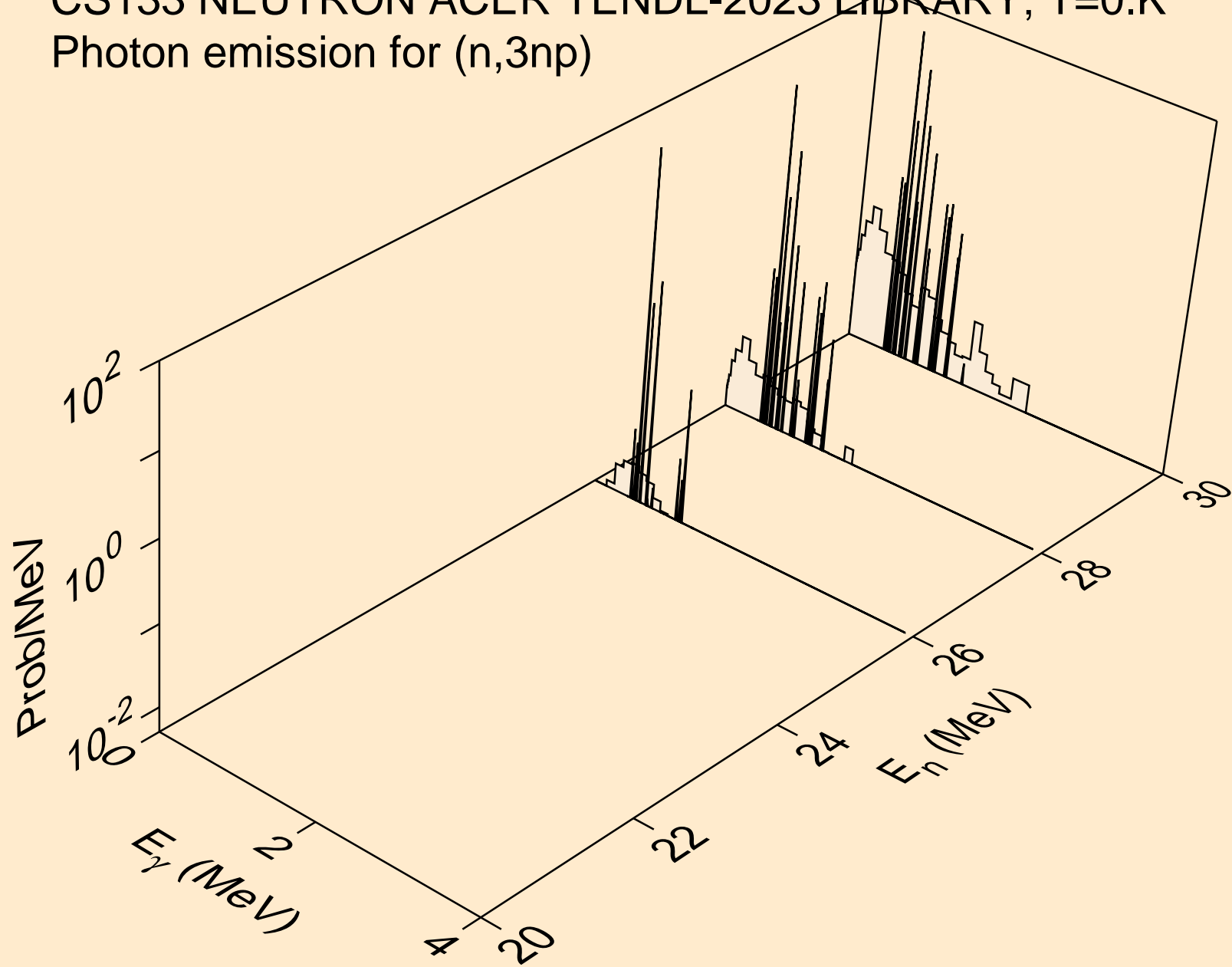




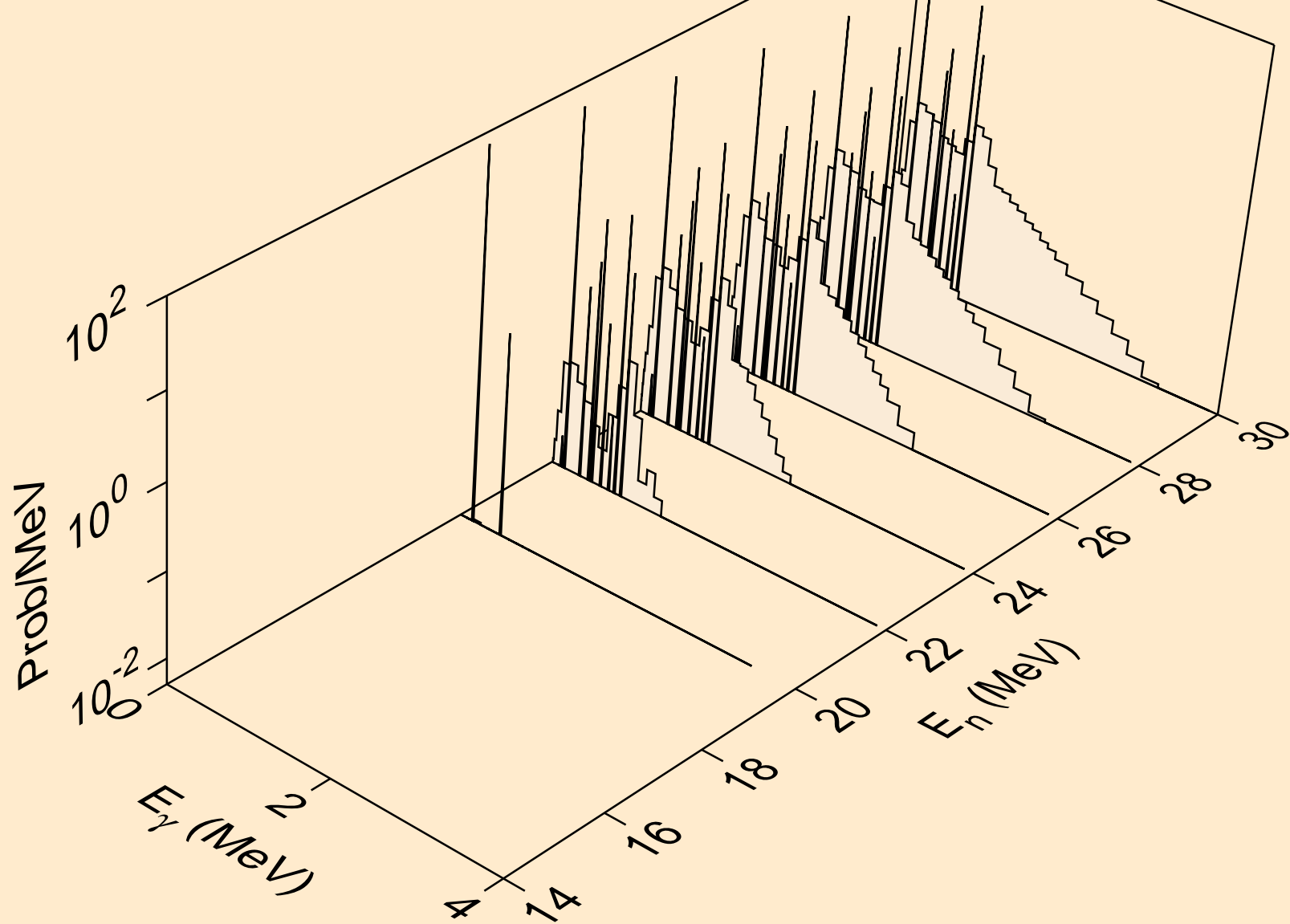
CS133 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2np)



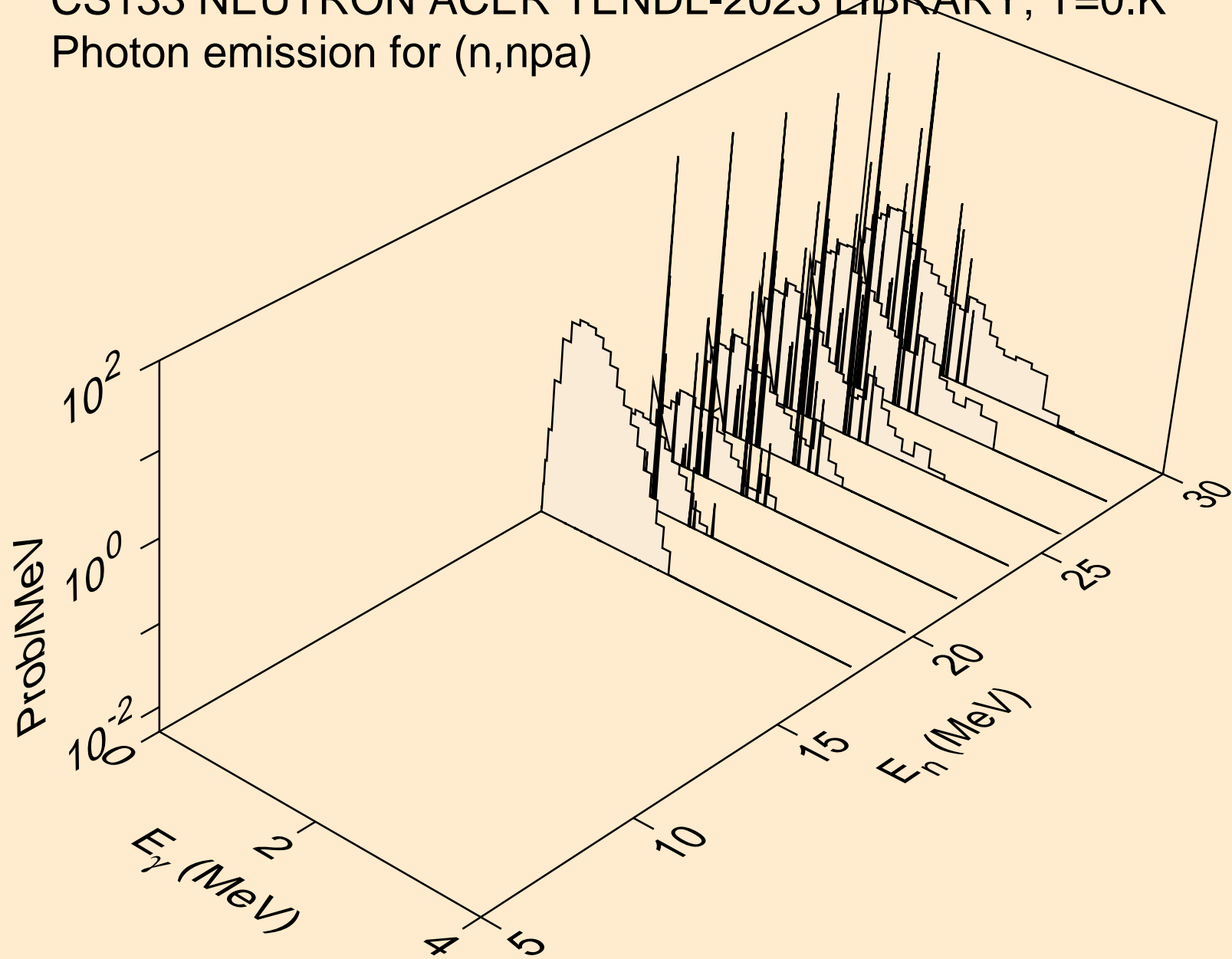
CS133 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,3np)



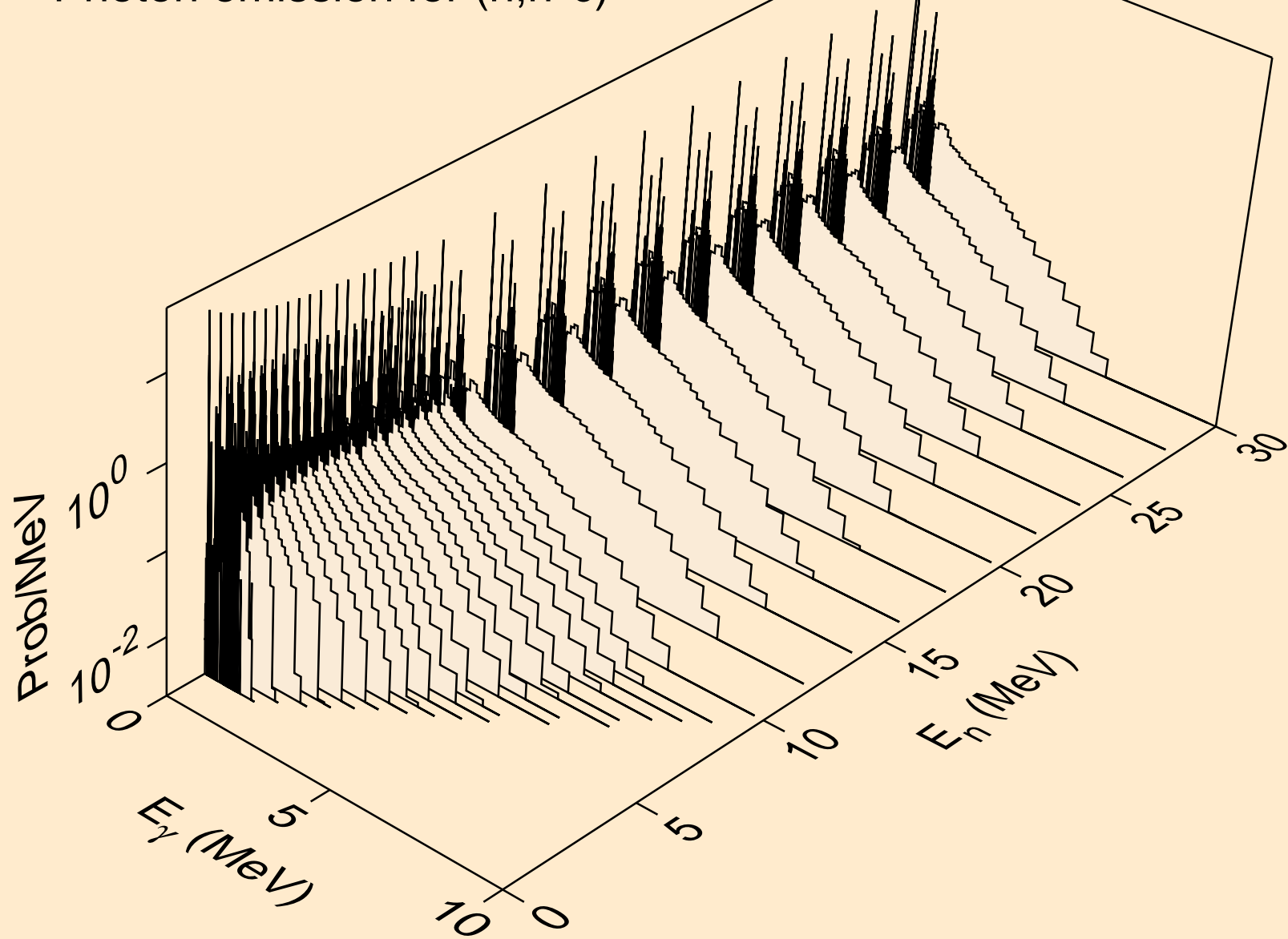
CS133 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n2p)



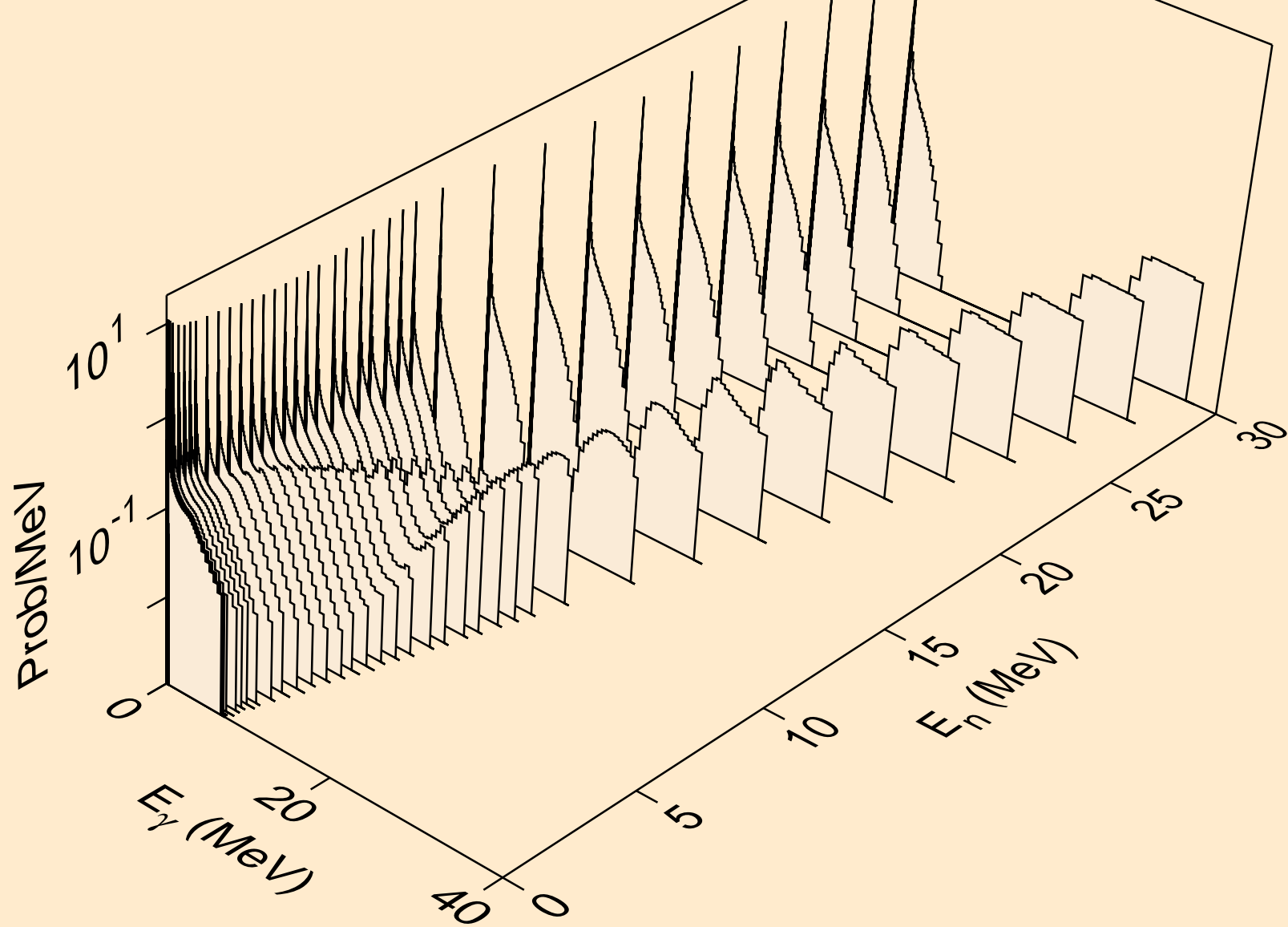
CS133 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,npa)



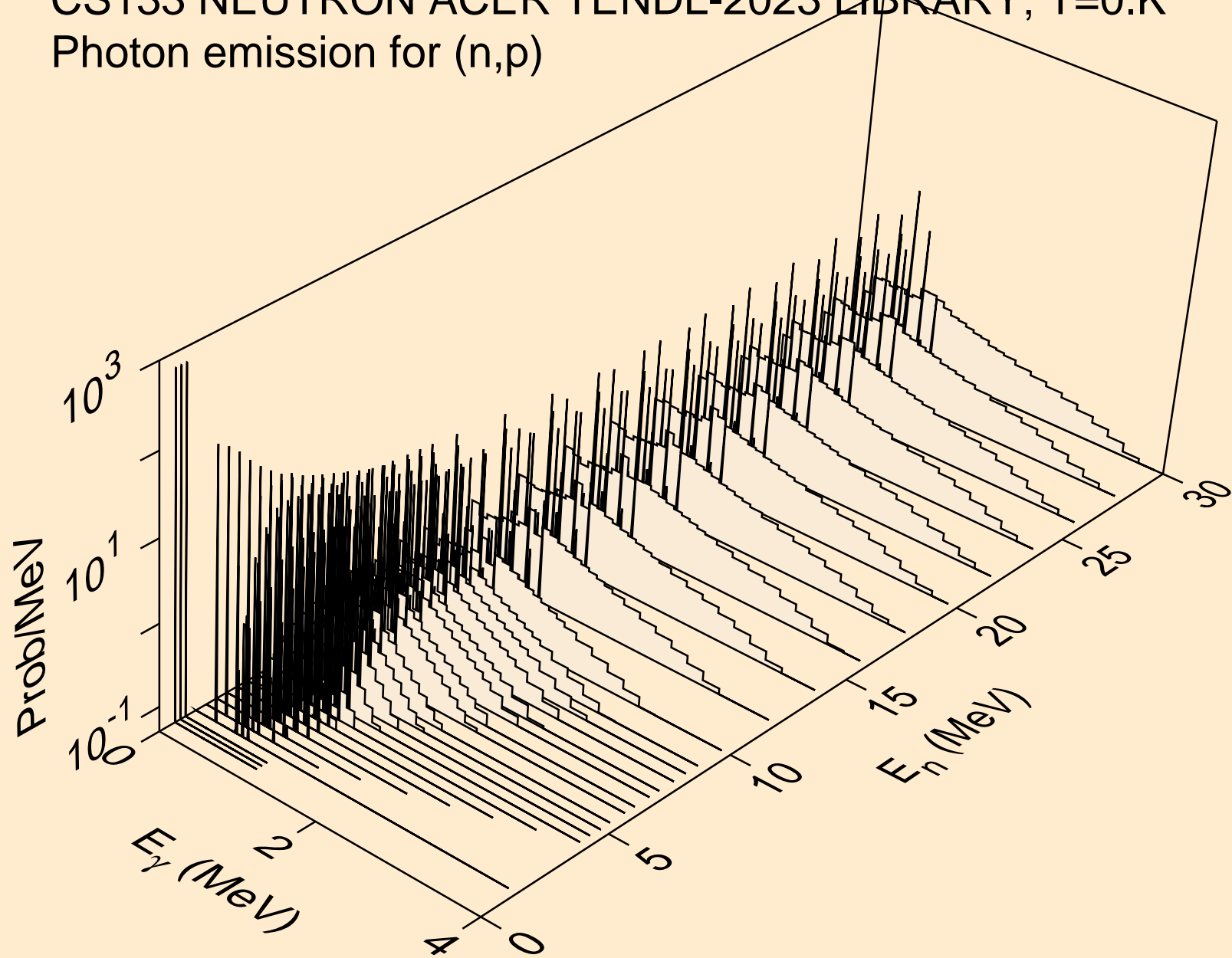
CS133 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*c)



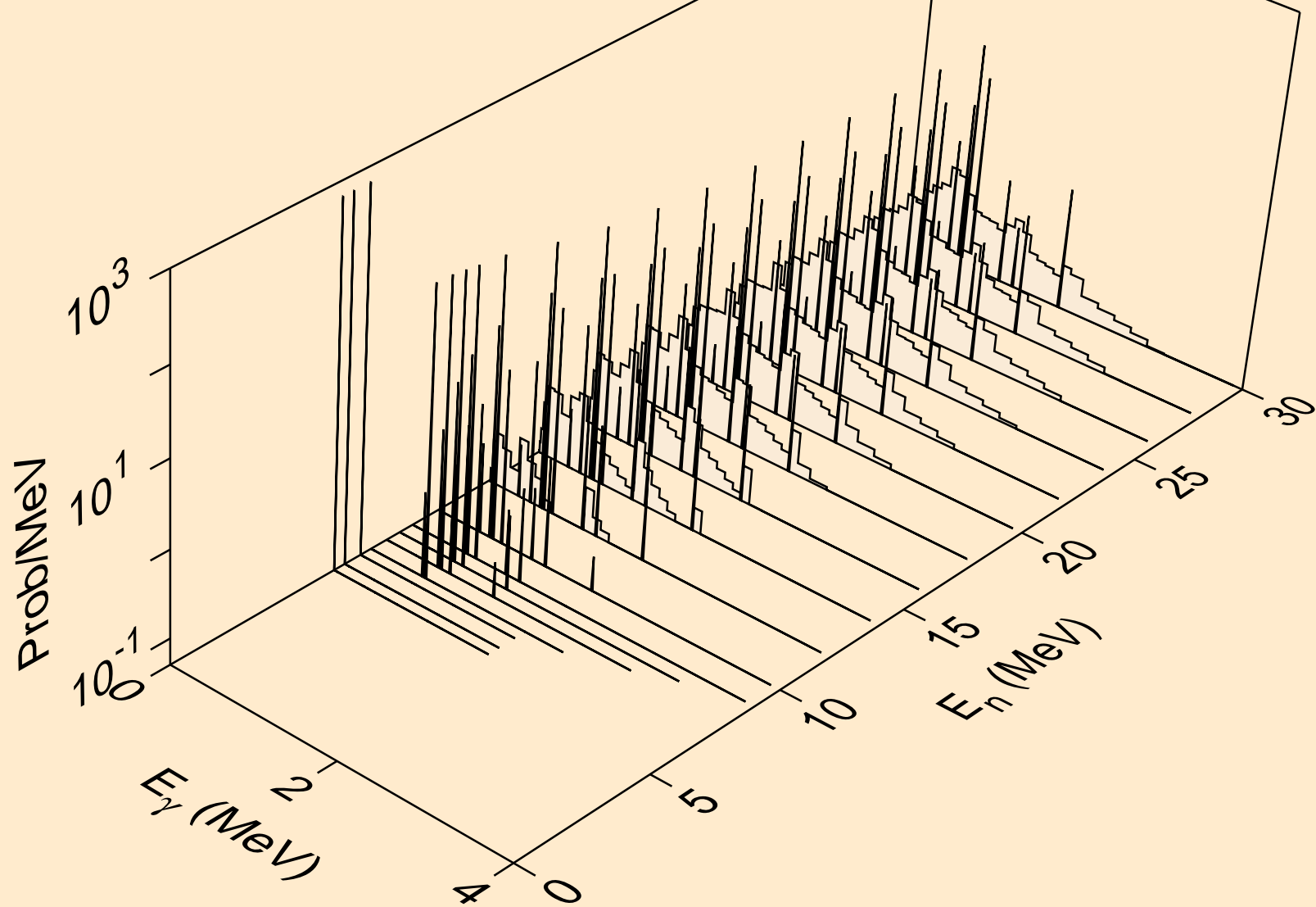
CS133 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,gma)



CS133 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,p)

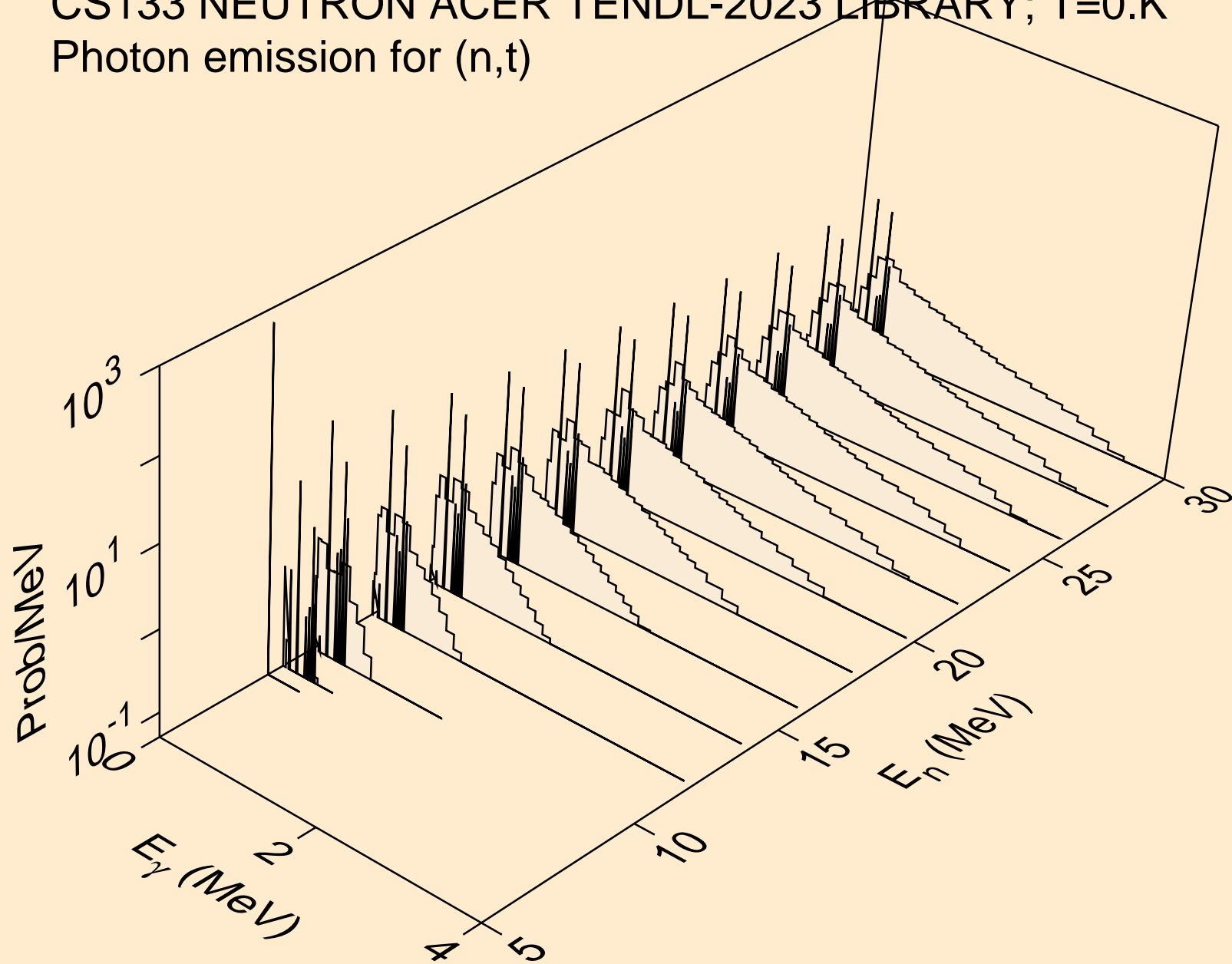


CS133 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,d)

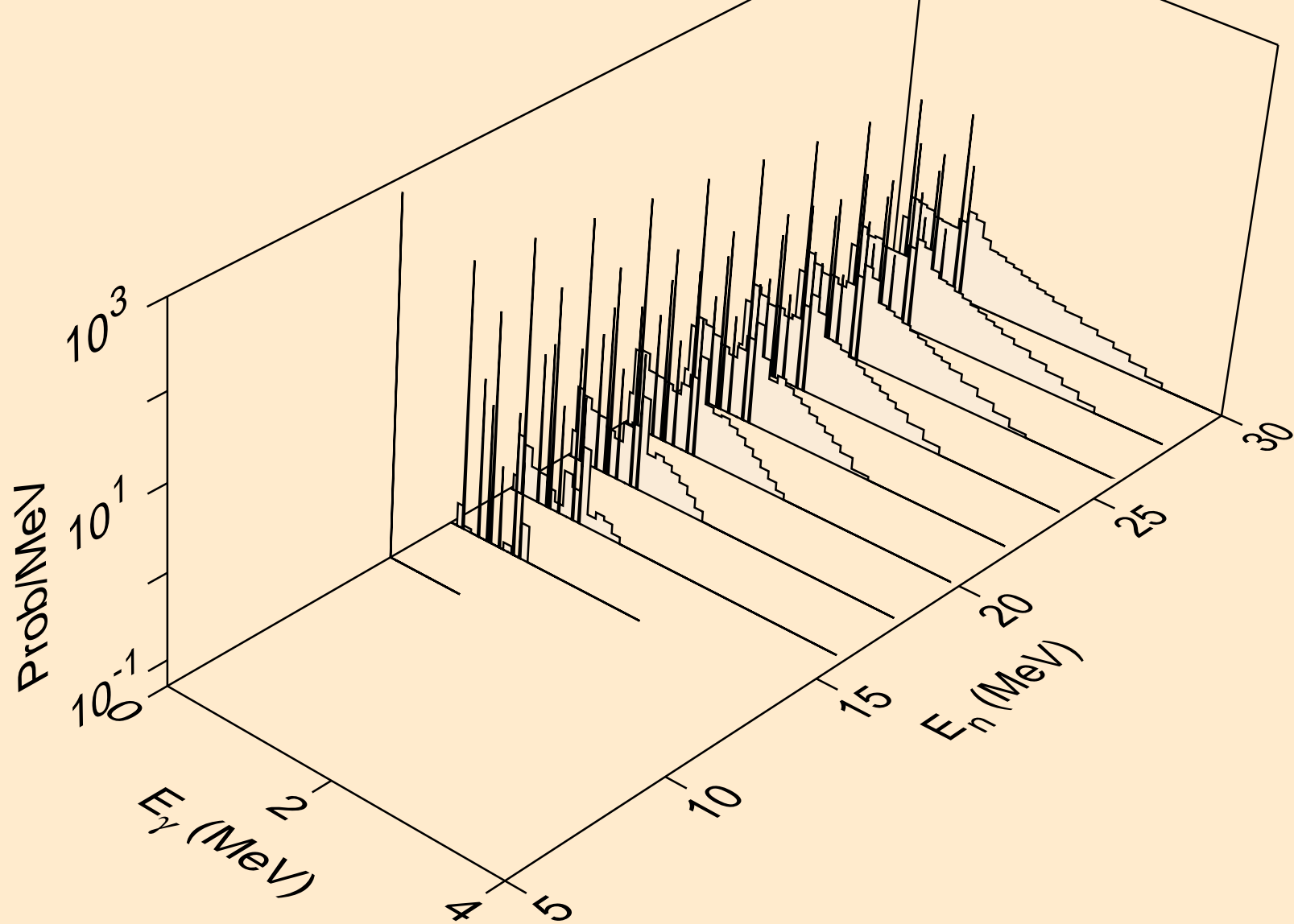




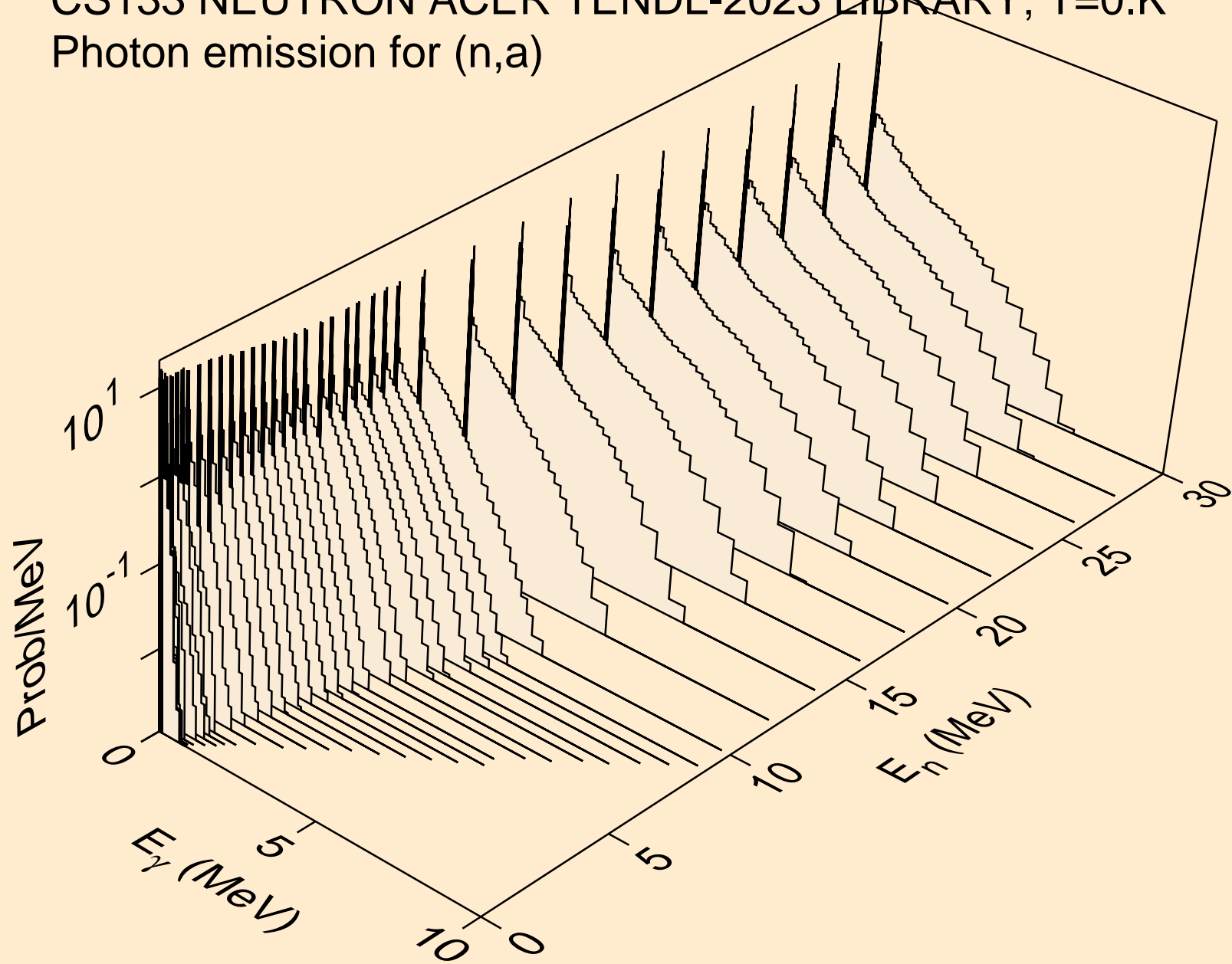
CS133 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,t)



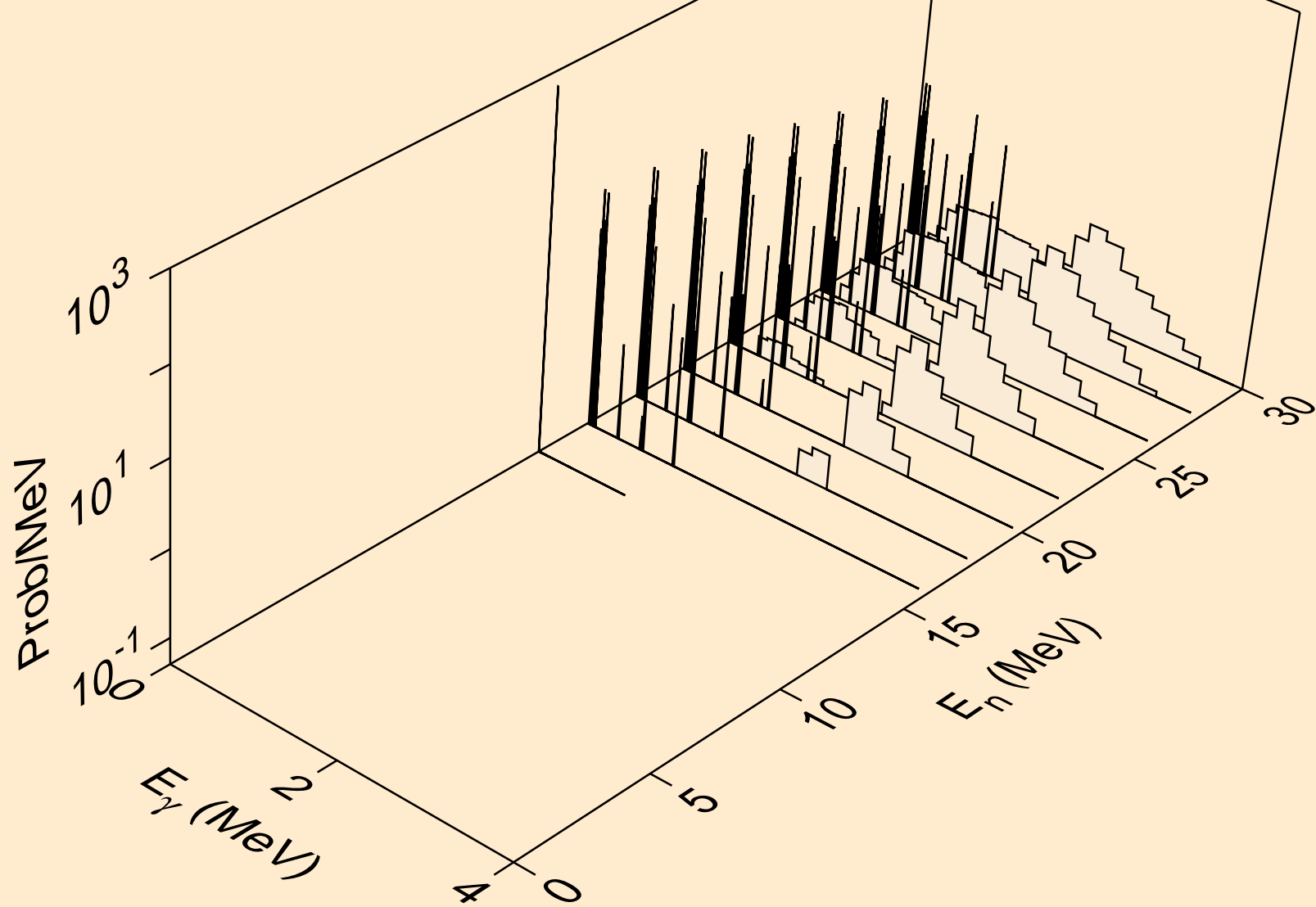
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Photon emission for (n,he3)



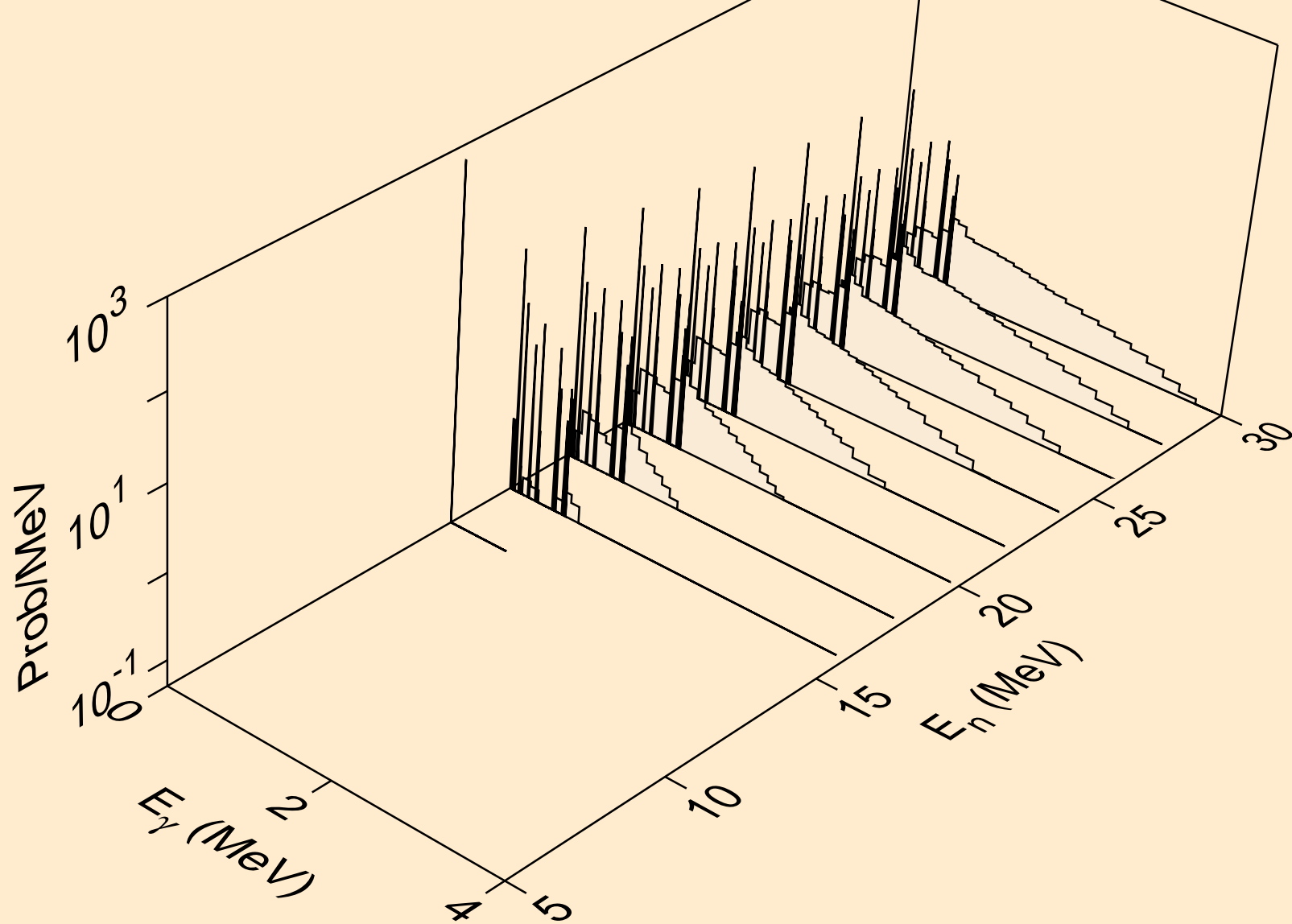
CS133 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,a)



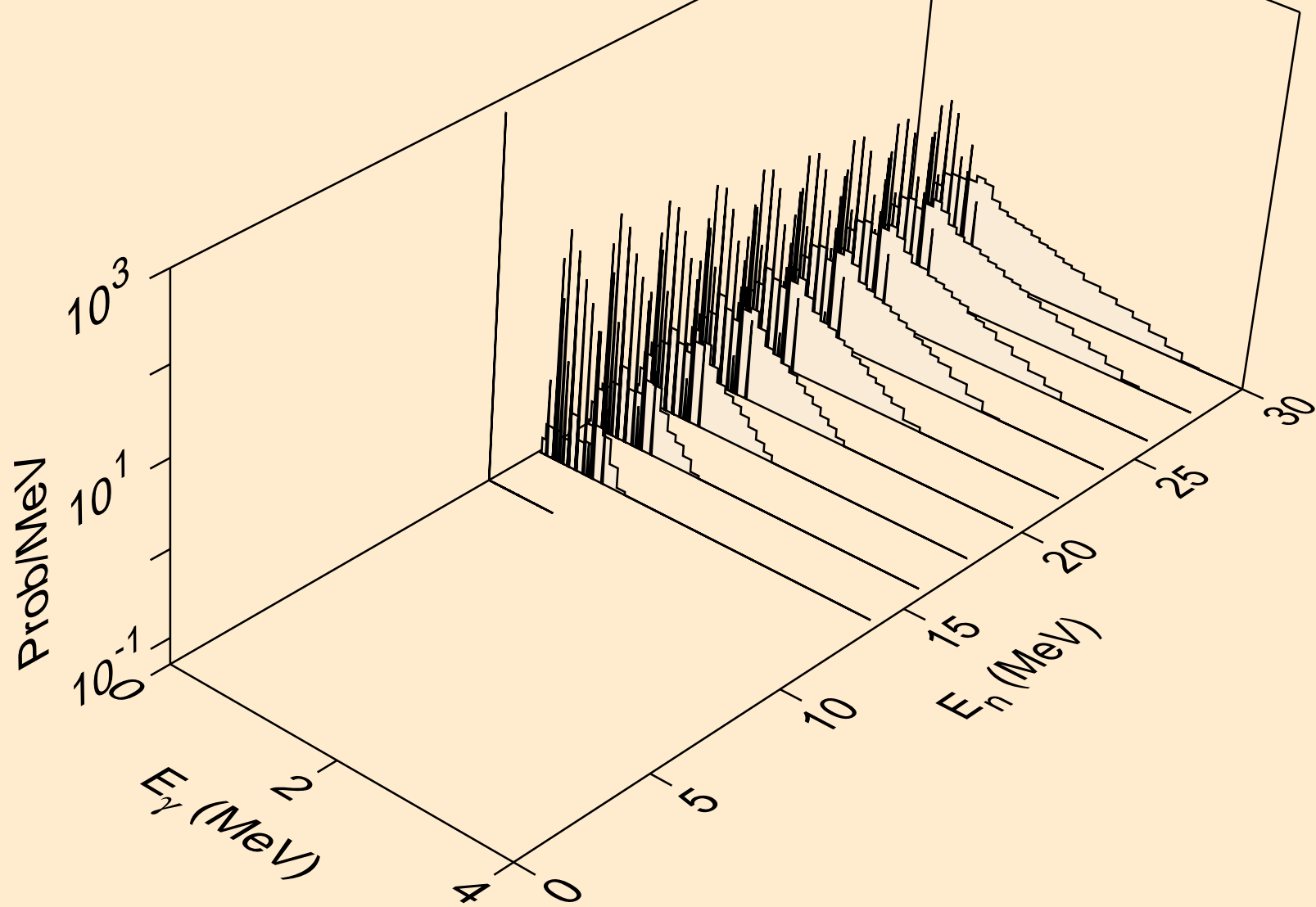
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Photon emission for (n,2a)



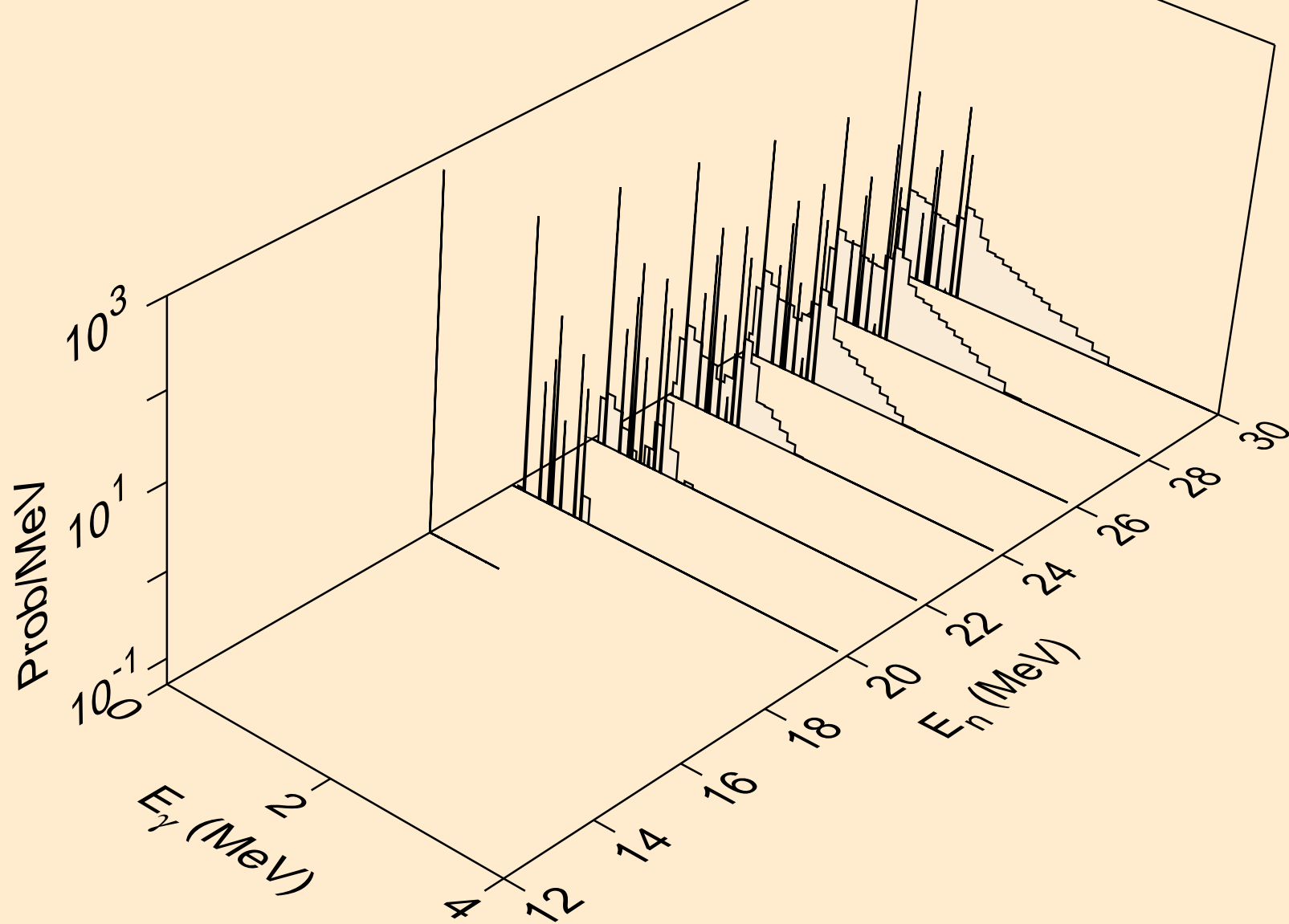
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Photon emission for (n,2p)



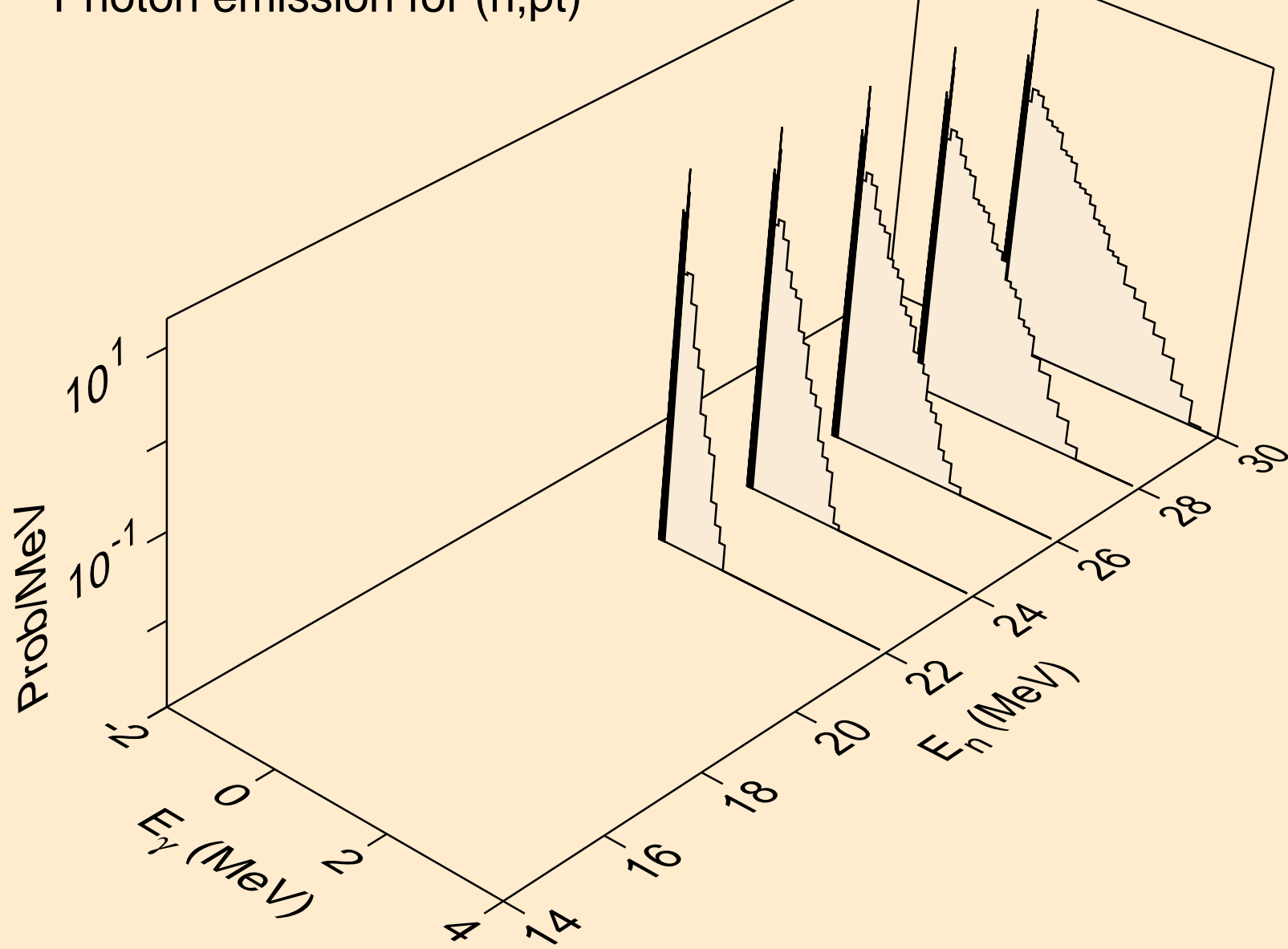
CS133 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,p $\alpha$ )



CS133 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,pd)

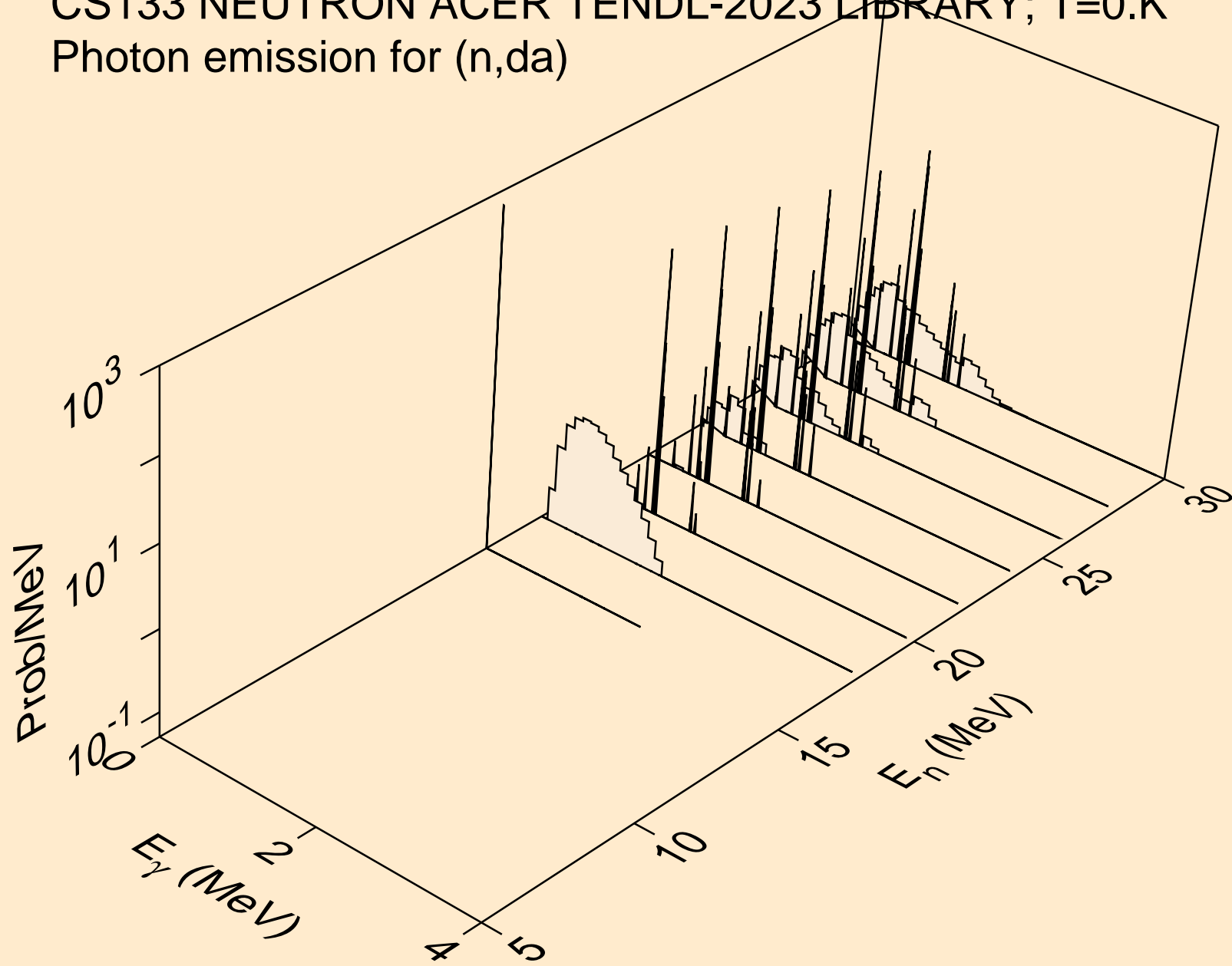


CS133 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,pt)

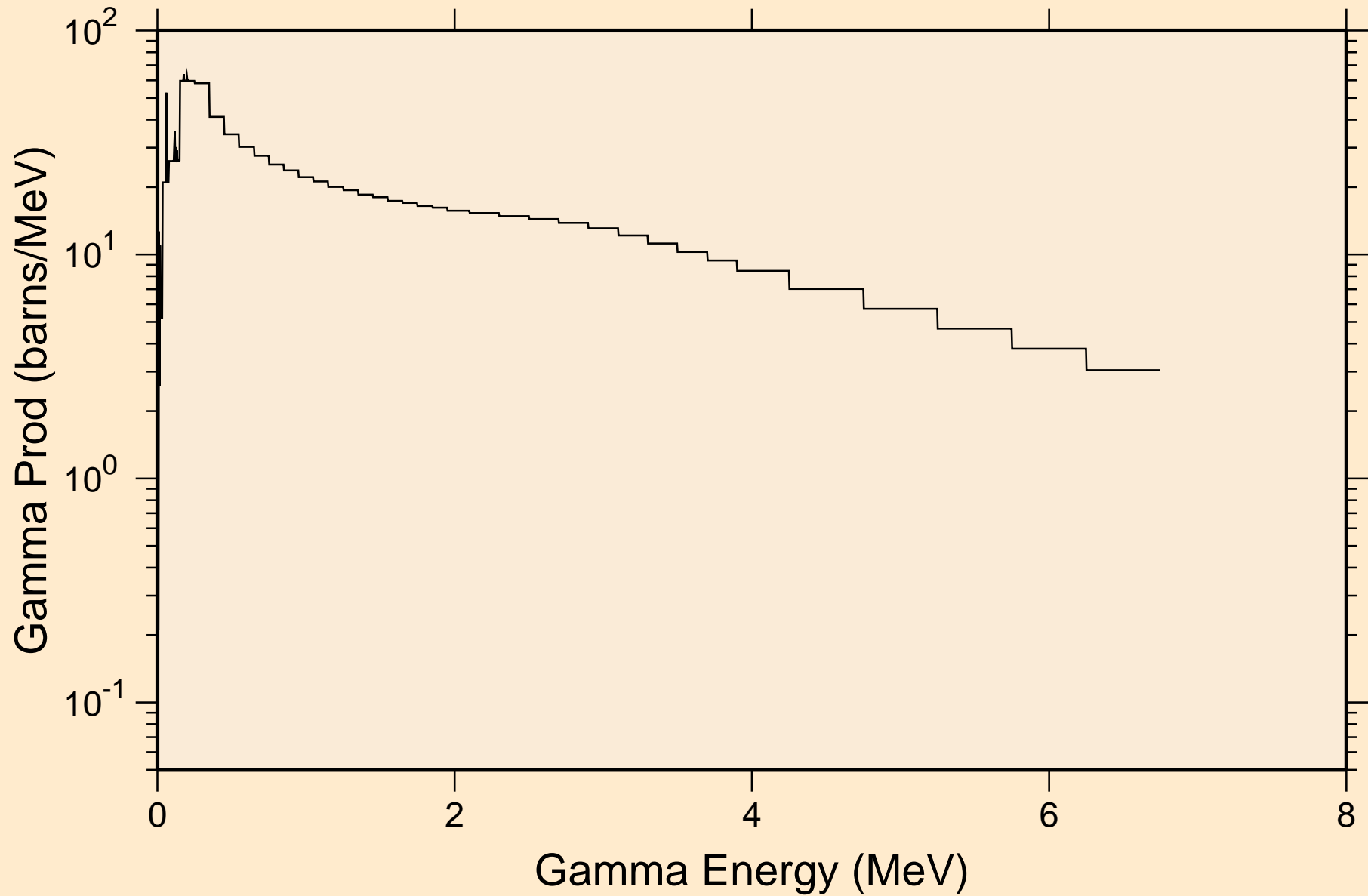




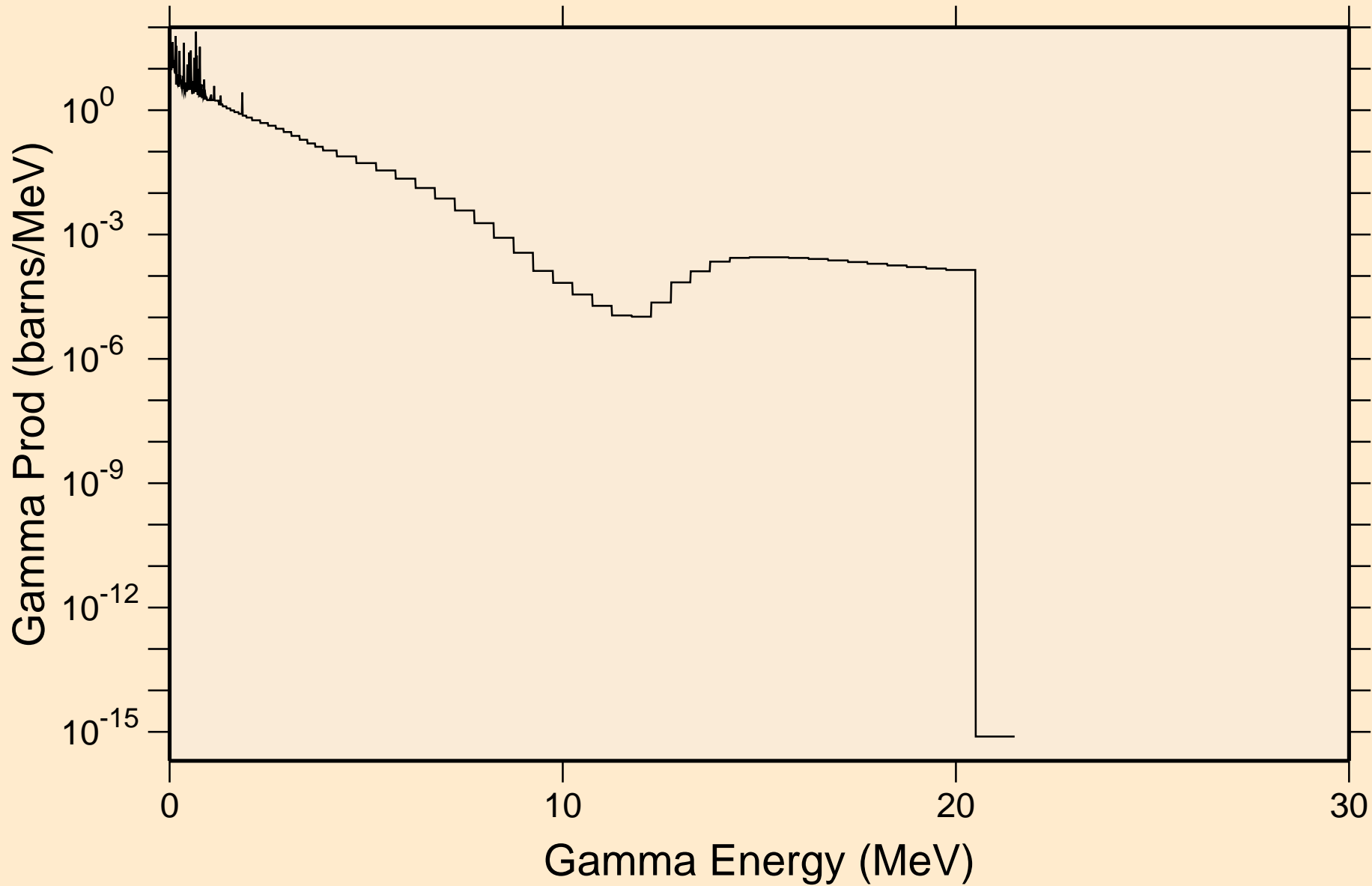
CS133 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,da)



CS133 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
thermal capture photon spectrum

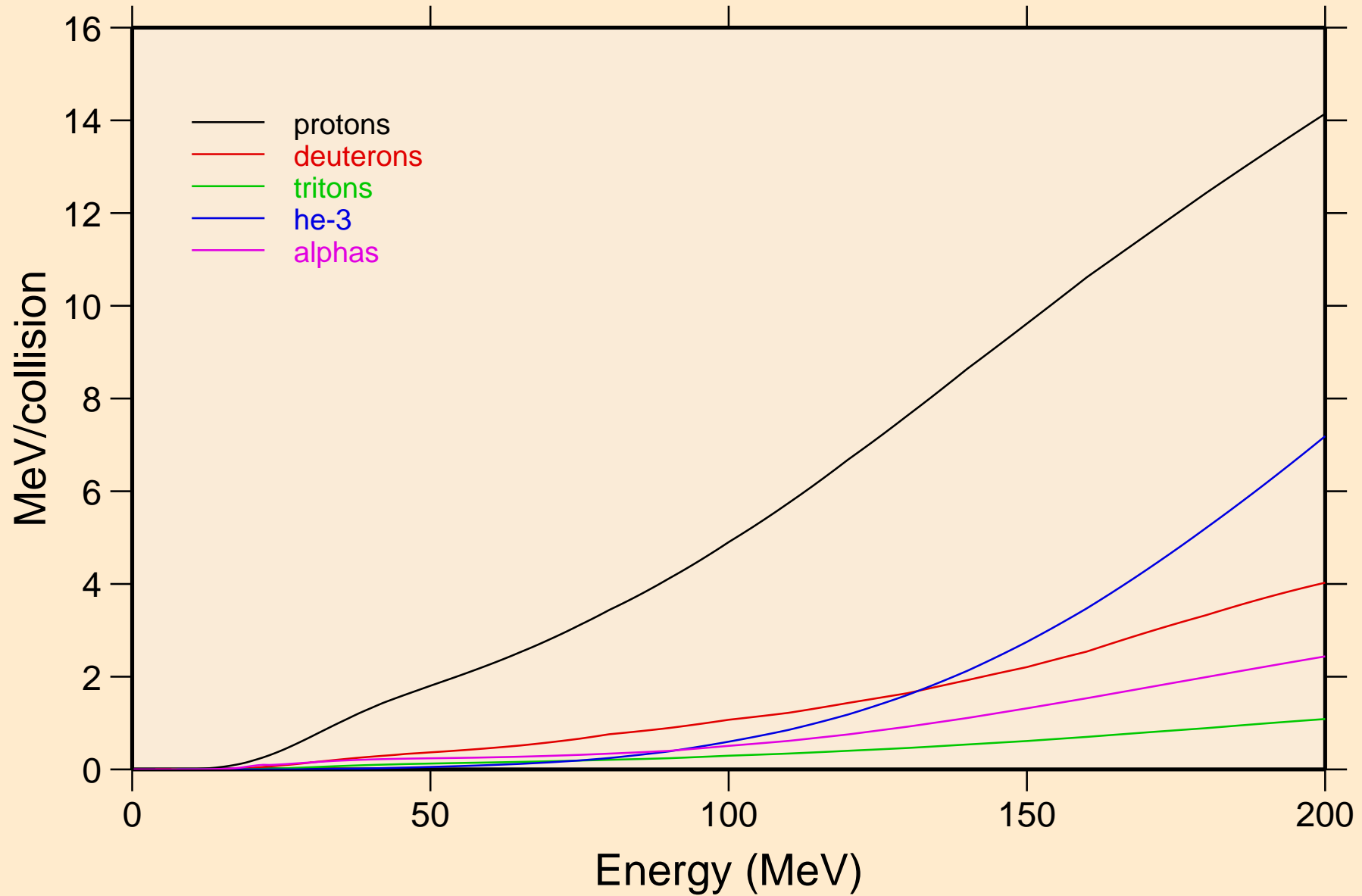


CS133 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
14 MeV photon spectrum



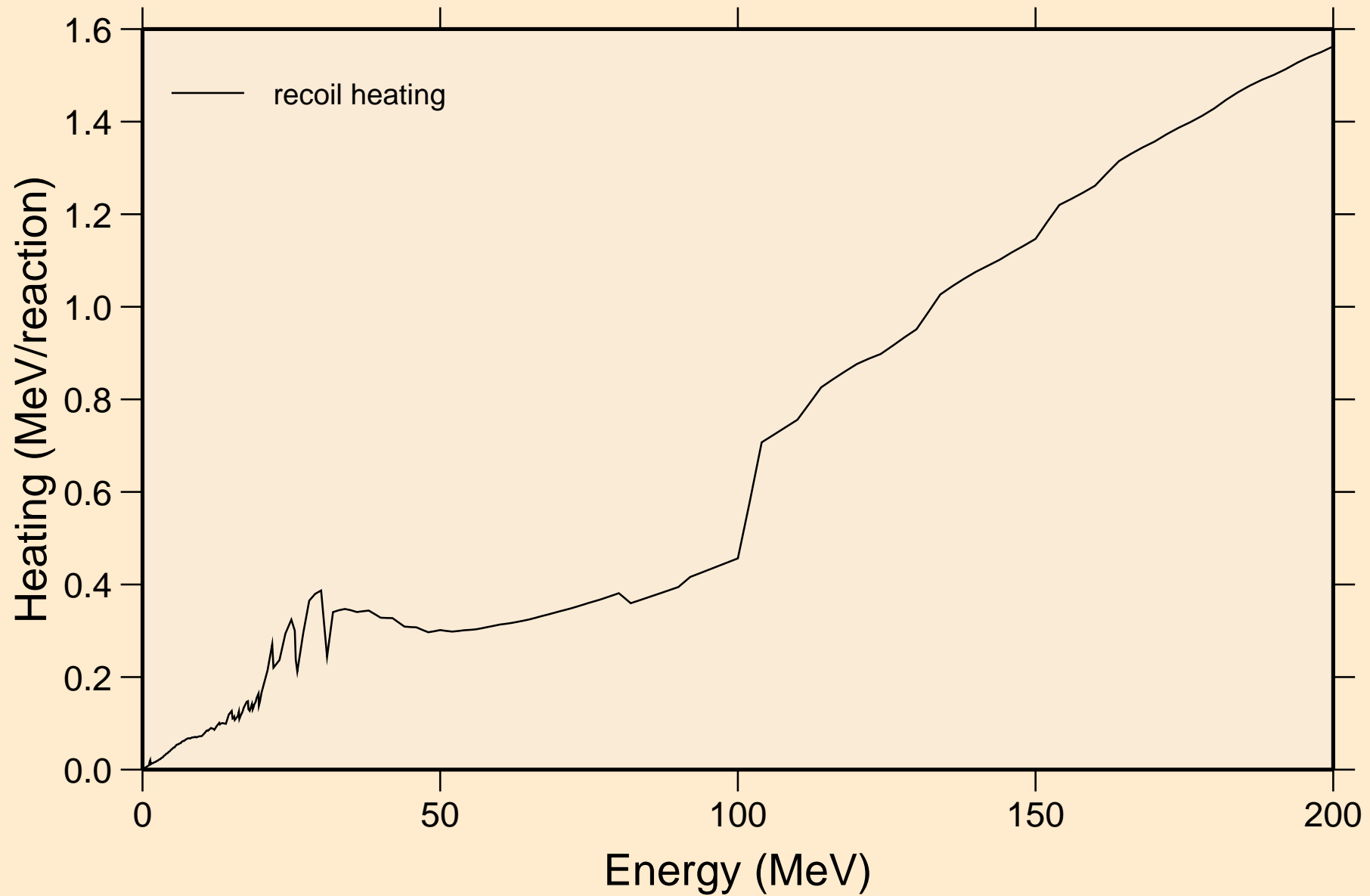
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## Particle heating contributions



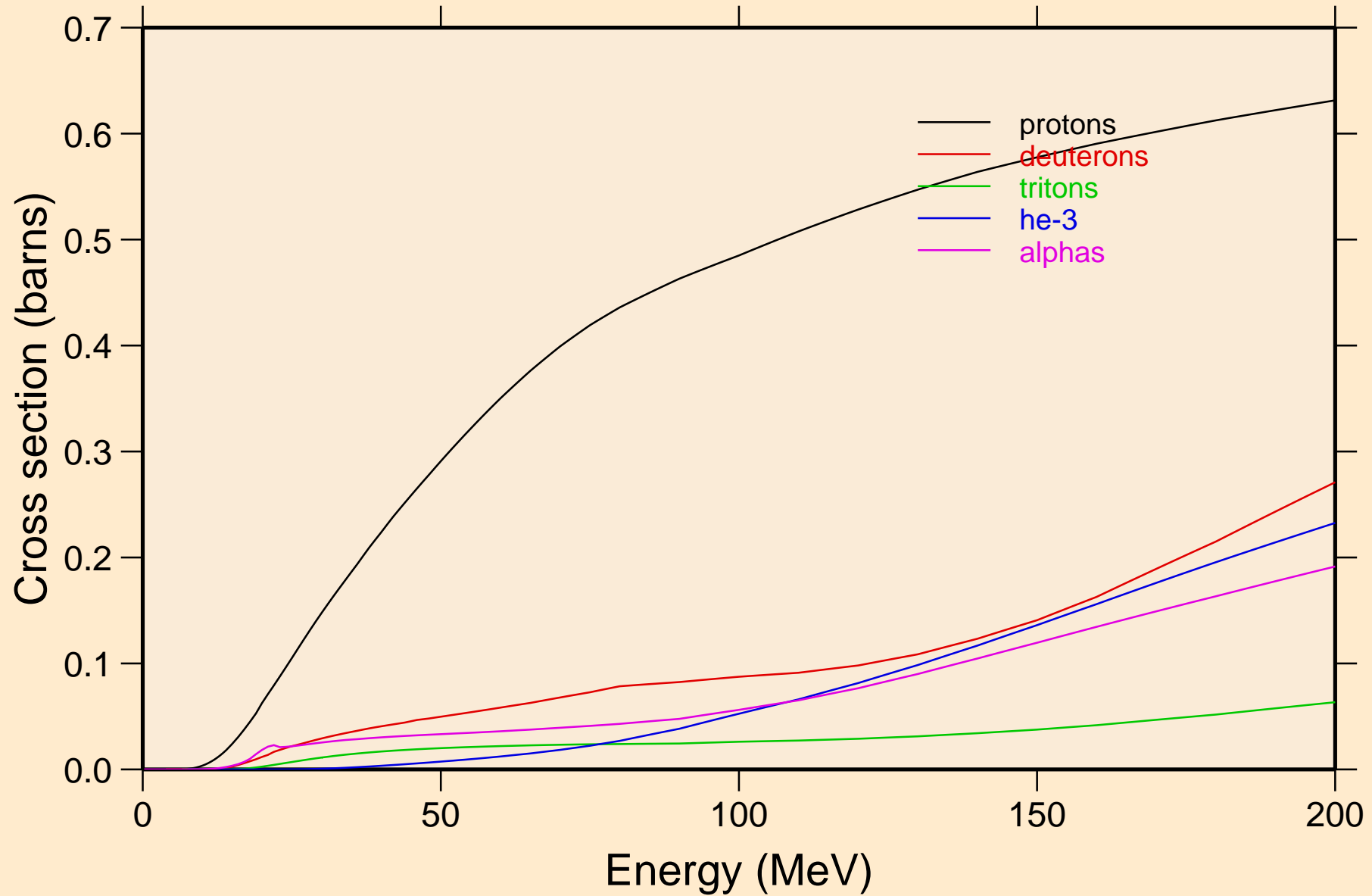
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## Recoil Heating

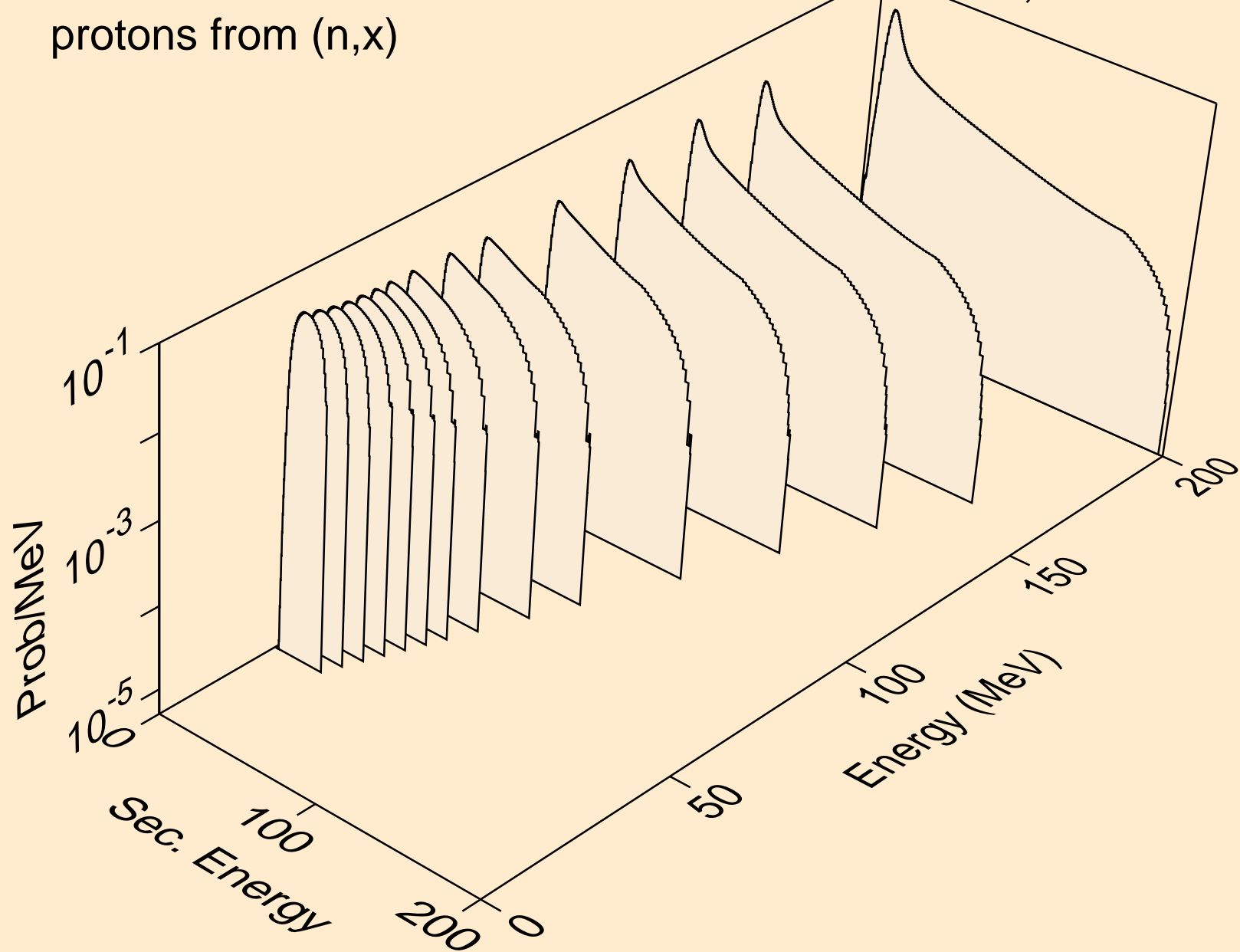


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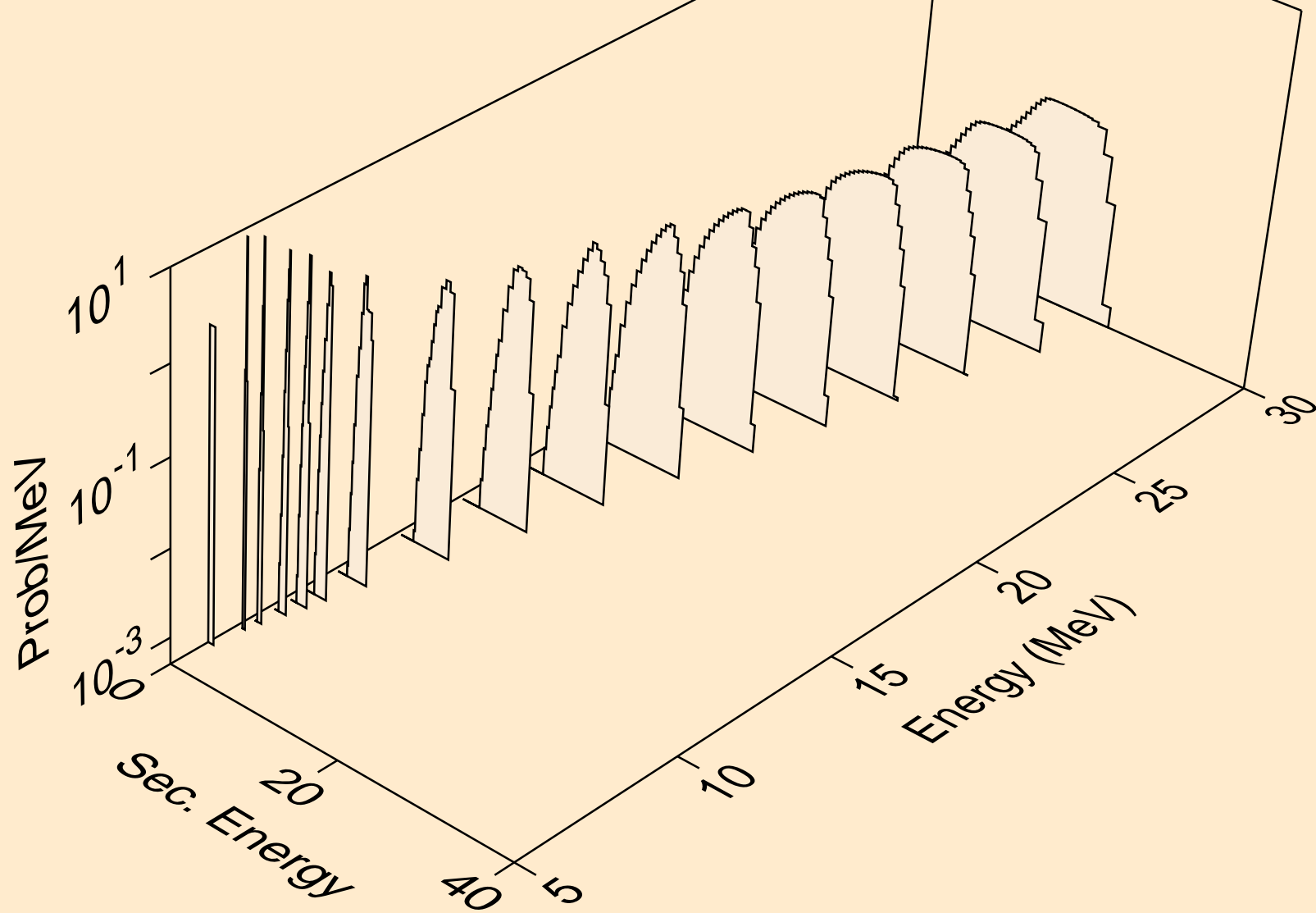
## Particle production cross sections



CS133 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
protons from (n,x)

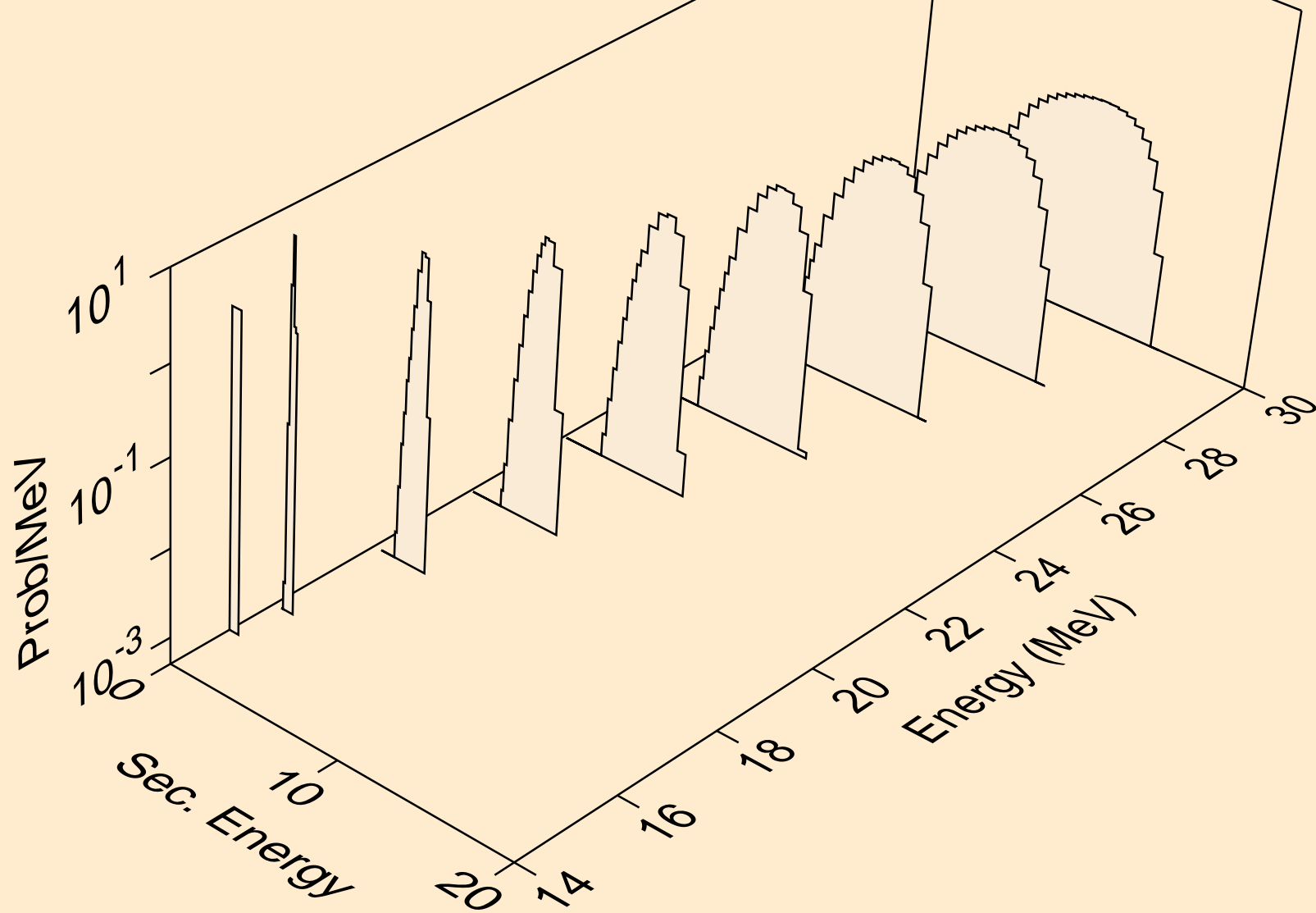


CS133 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
protons from (n,n\*)p

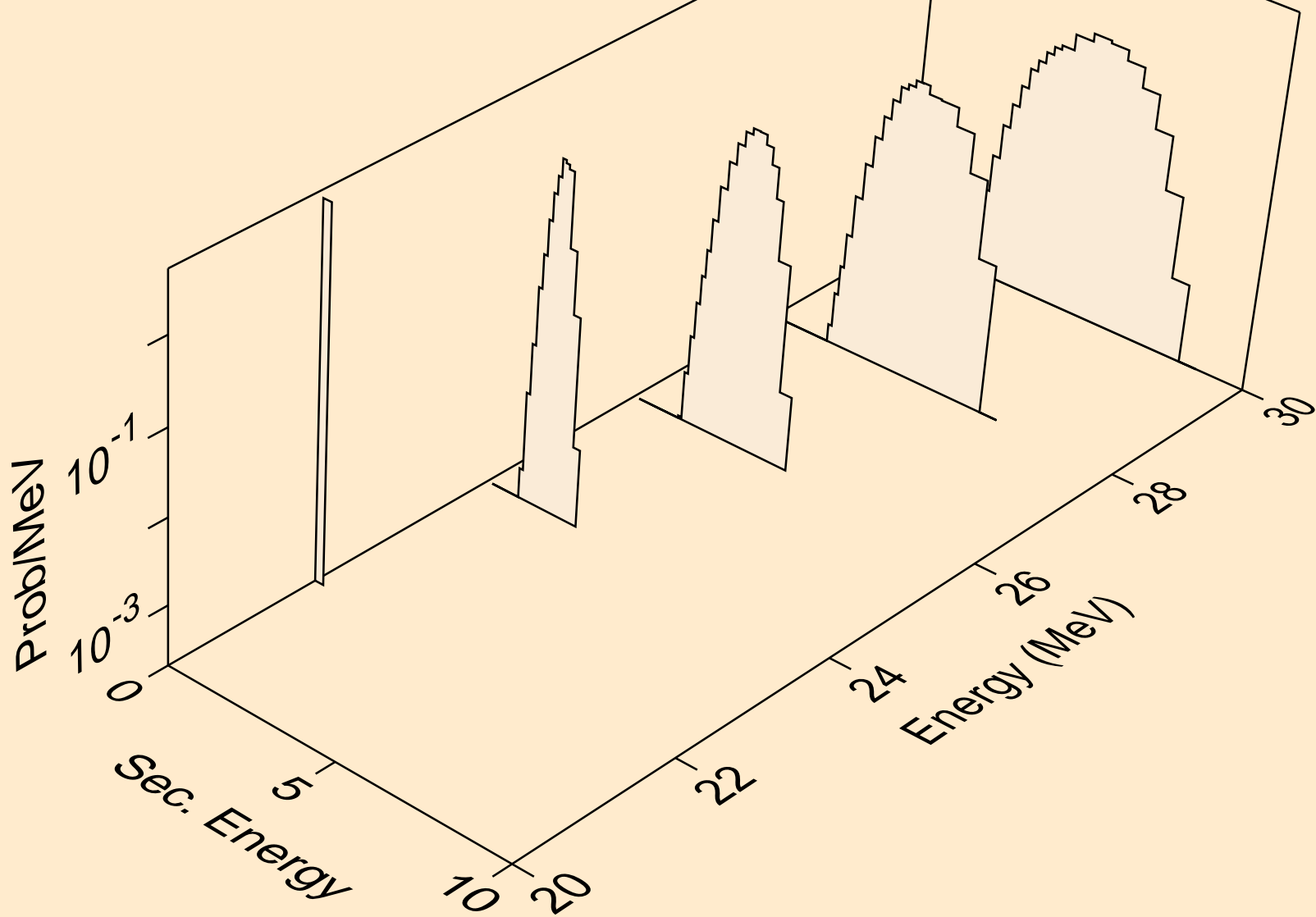




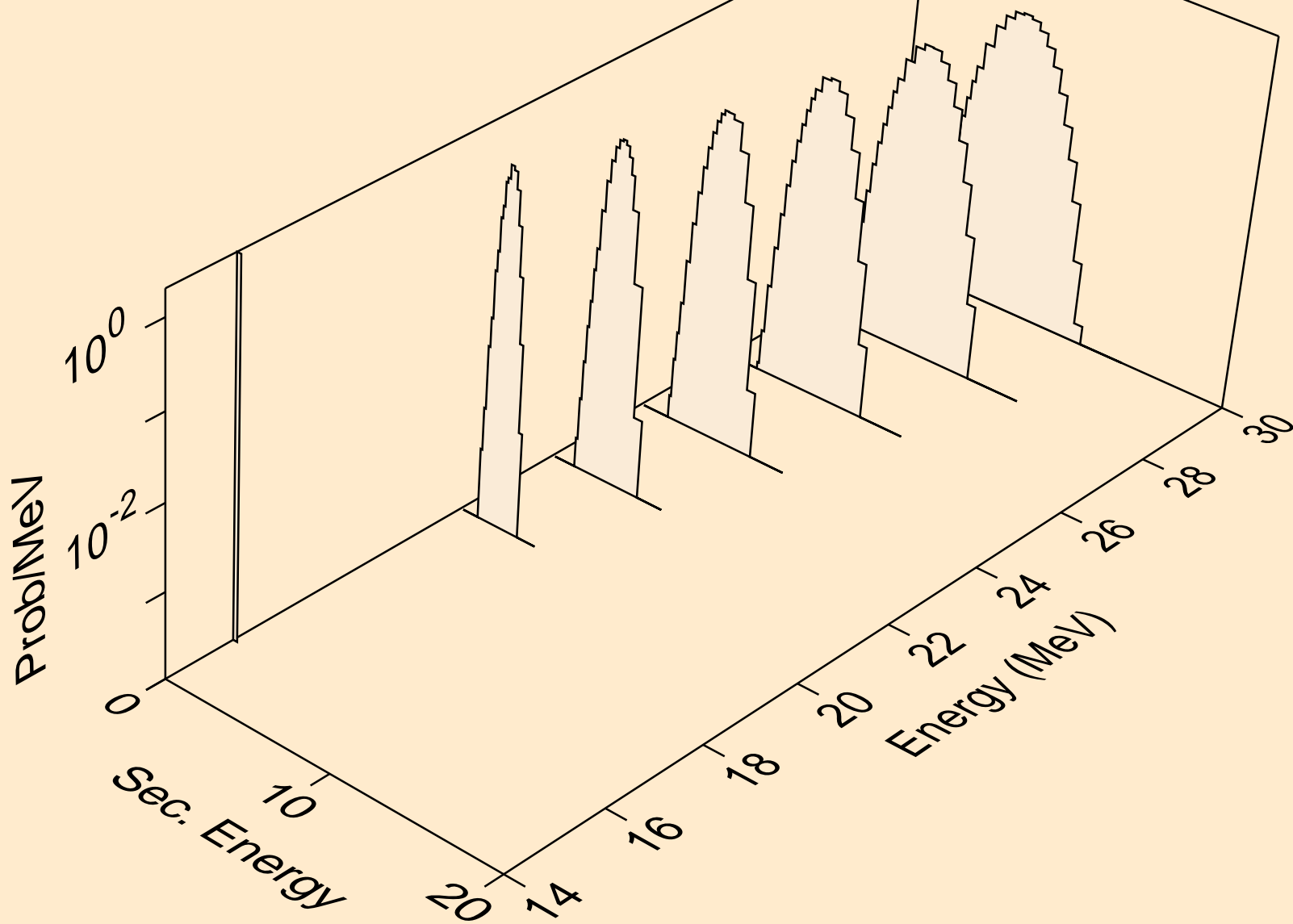
CS133 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
protons from (n,2np)



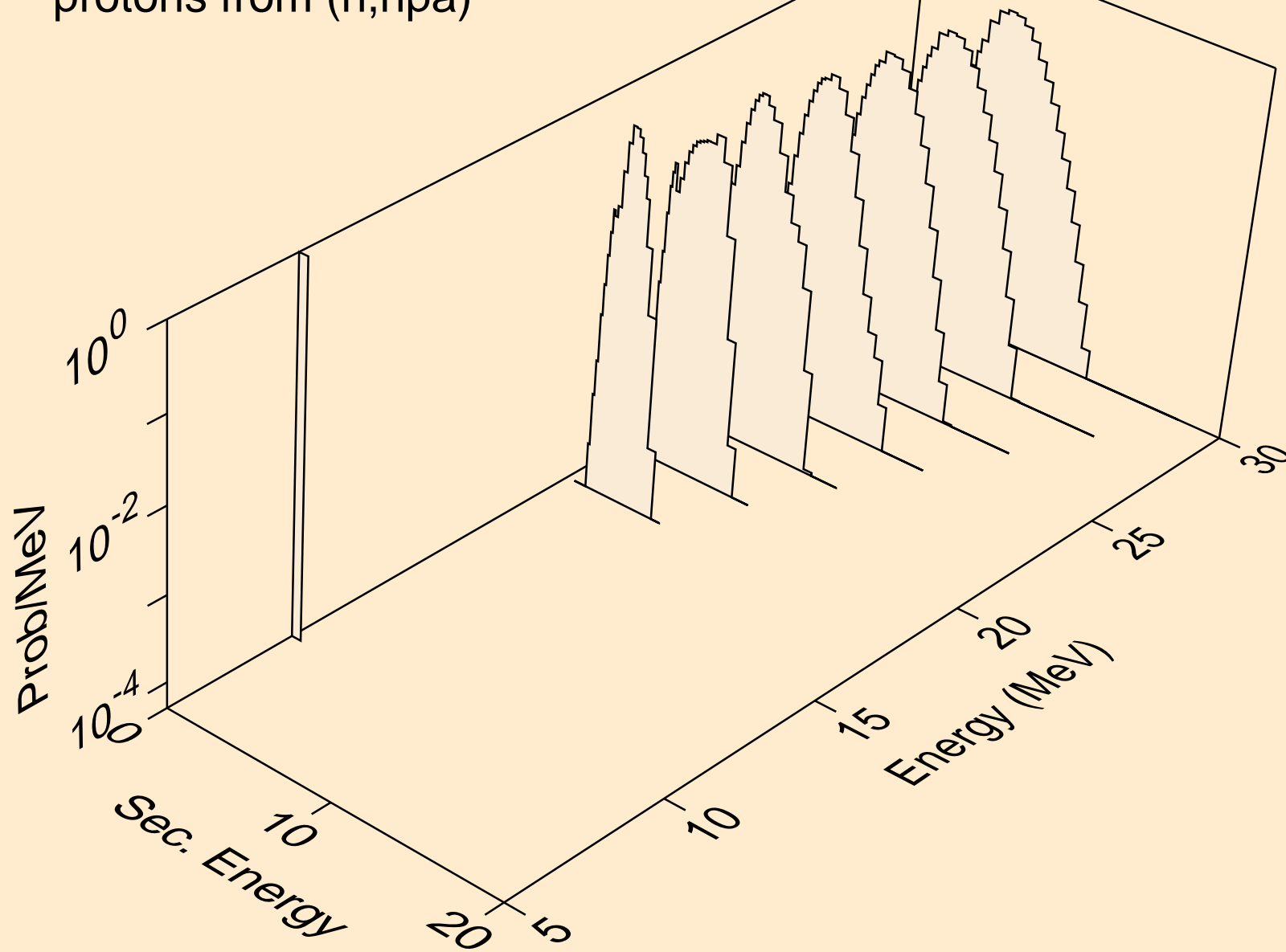
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protons from (n,3np)



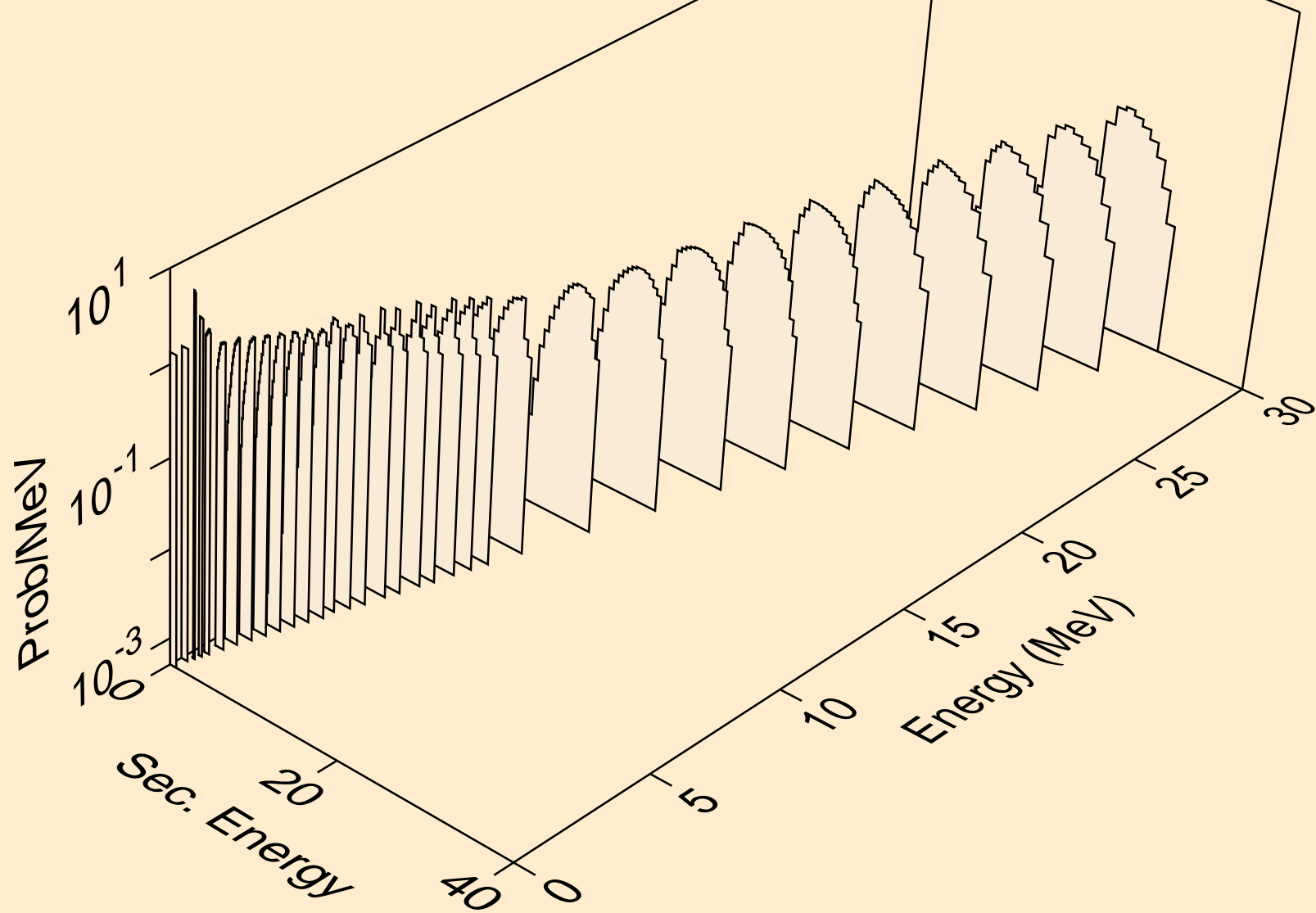
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protons from (n,n2p)



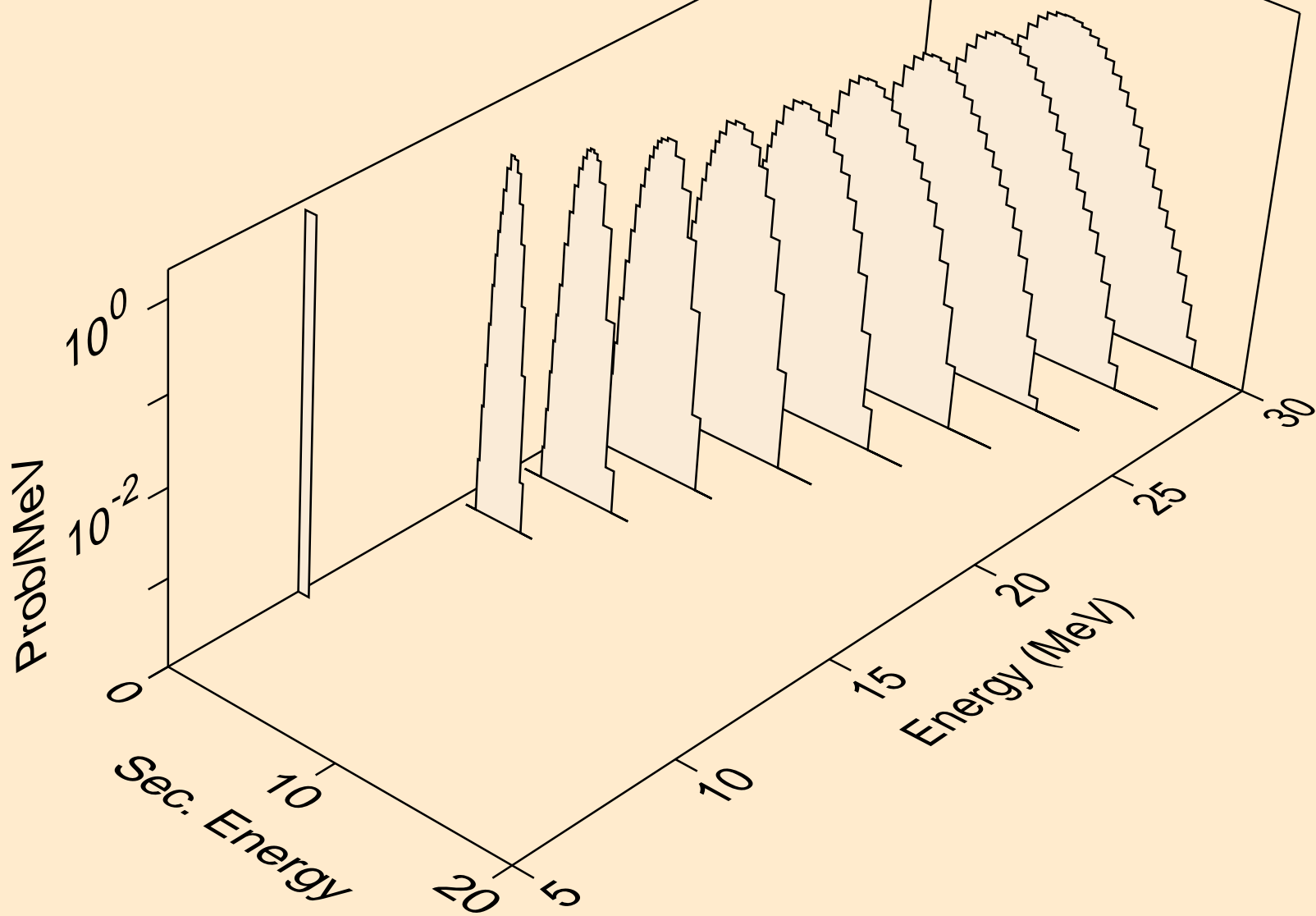
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protons from (n,npa)



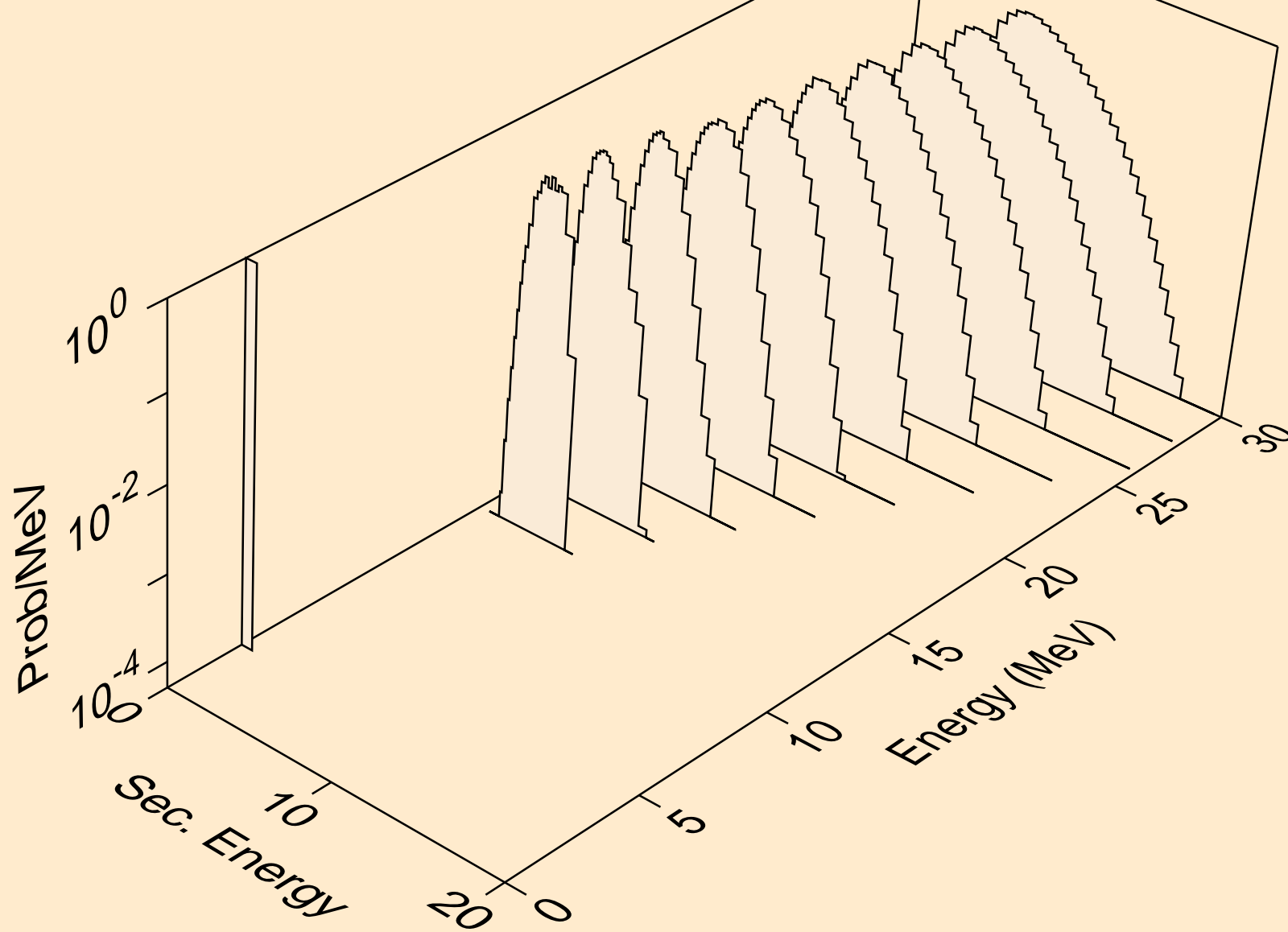
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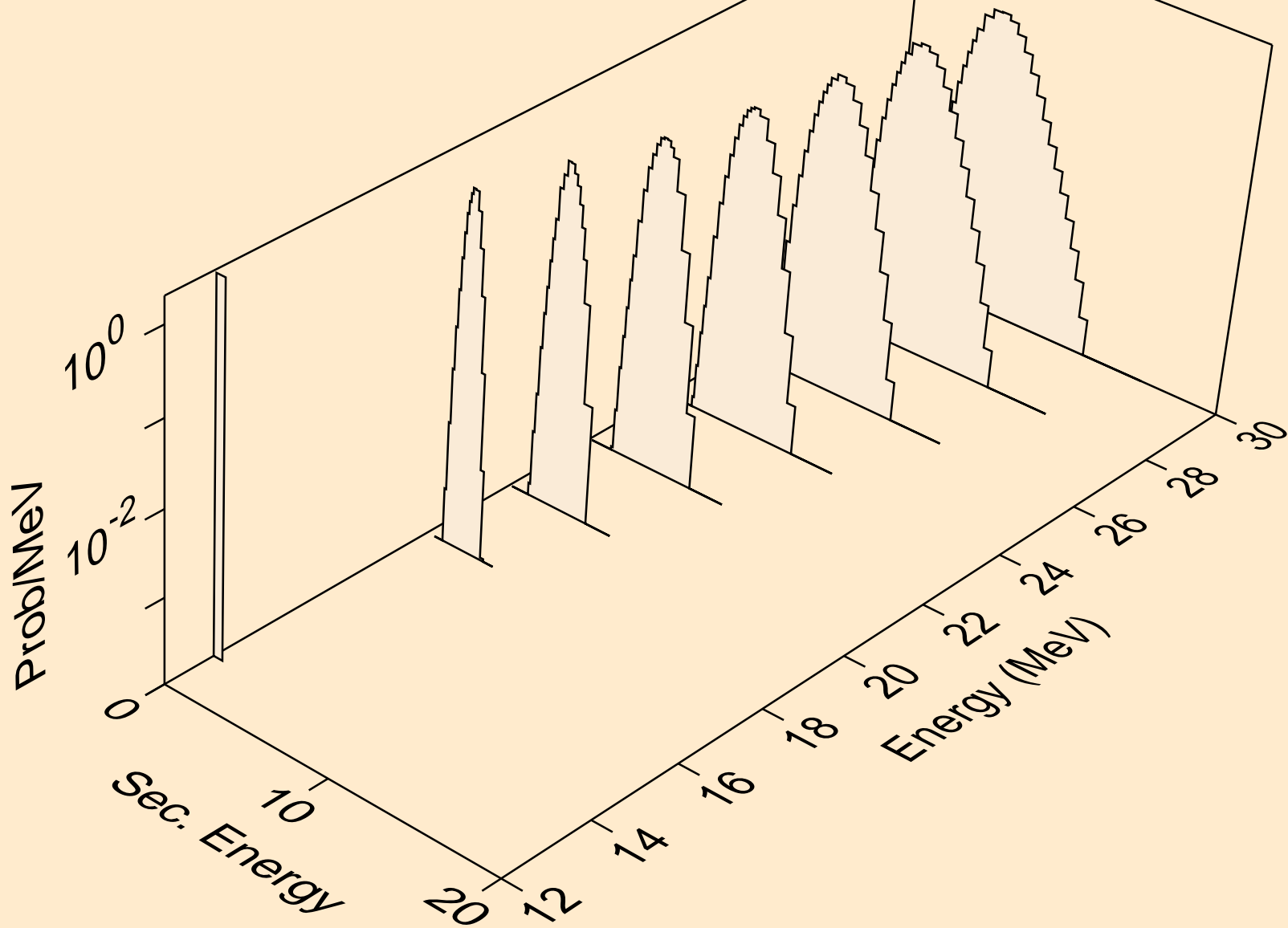
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protons from (n,2p)



CS133 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
protons from (n,p)

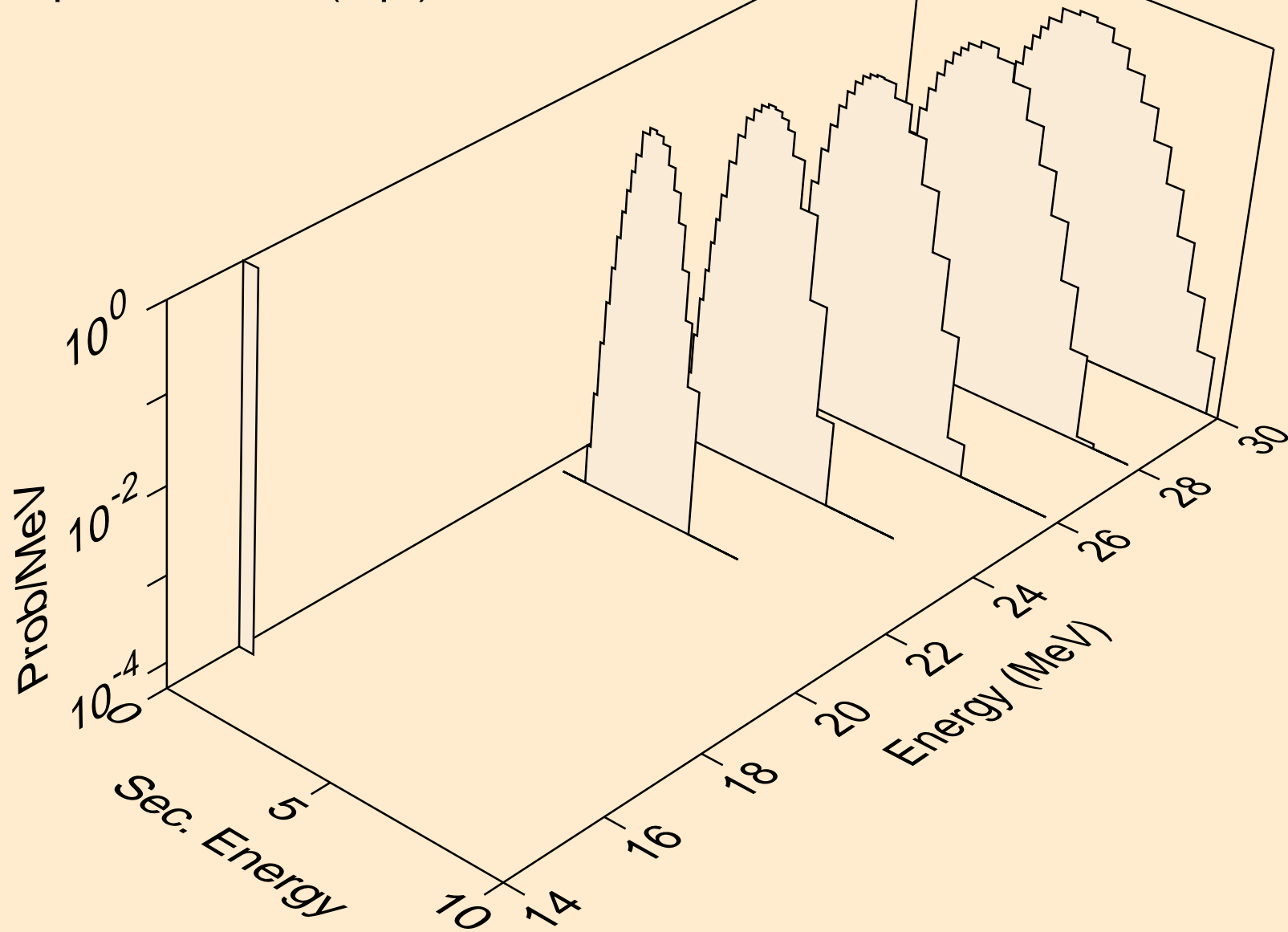


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protons from (n,pd)

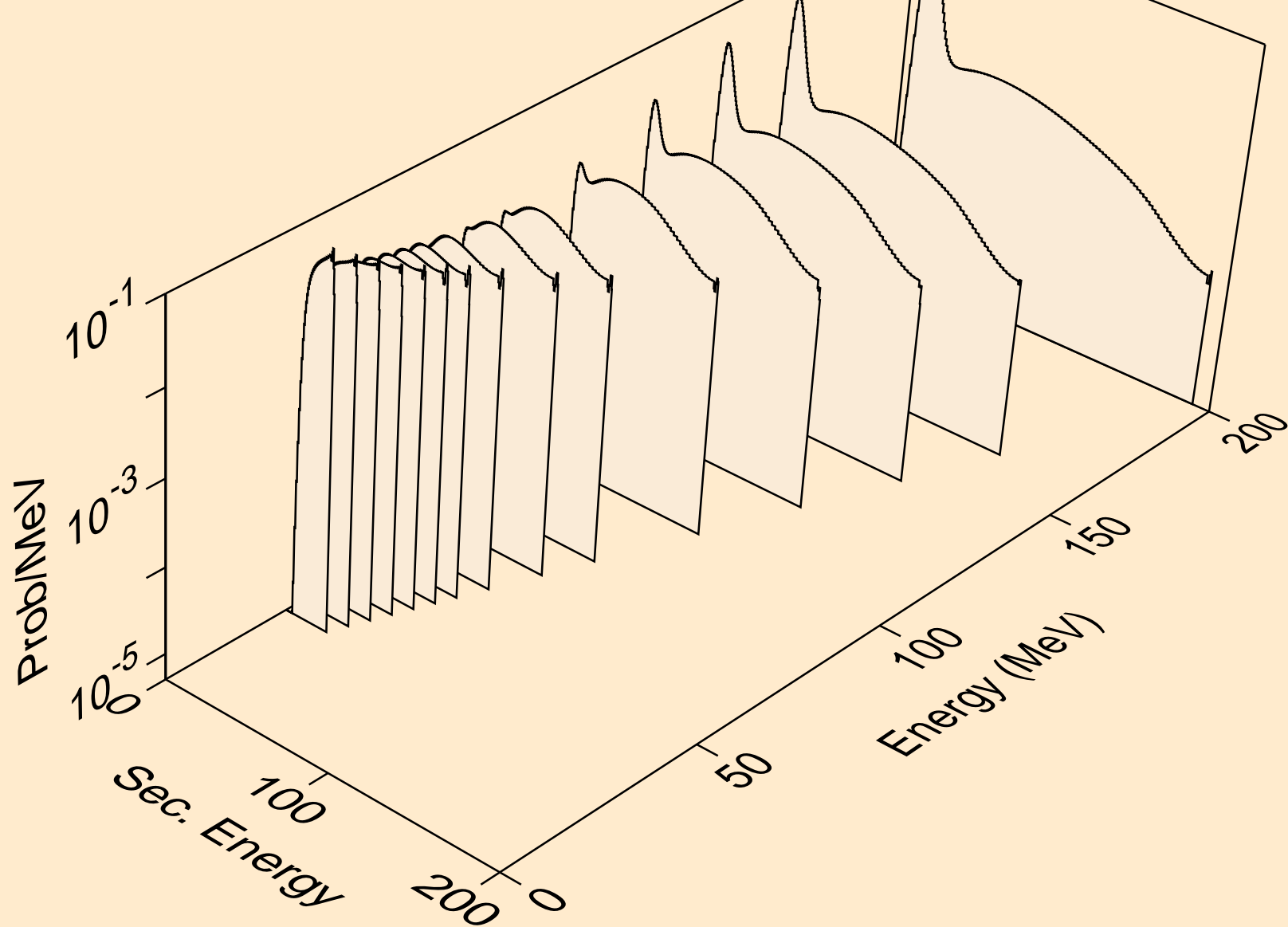




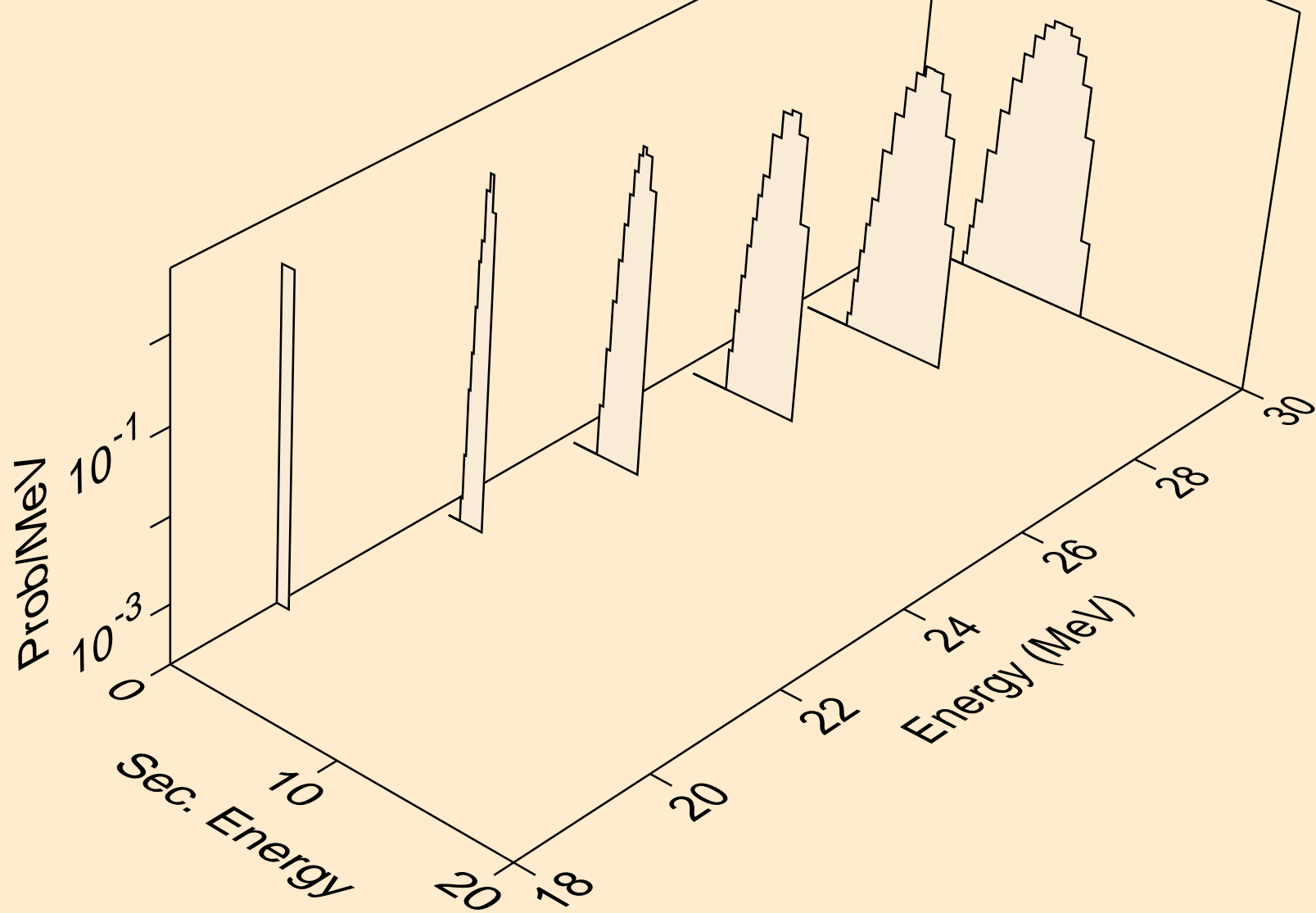
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protons from (n,pt)



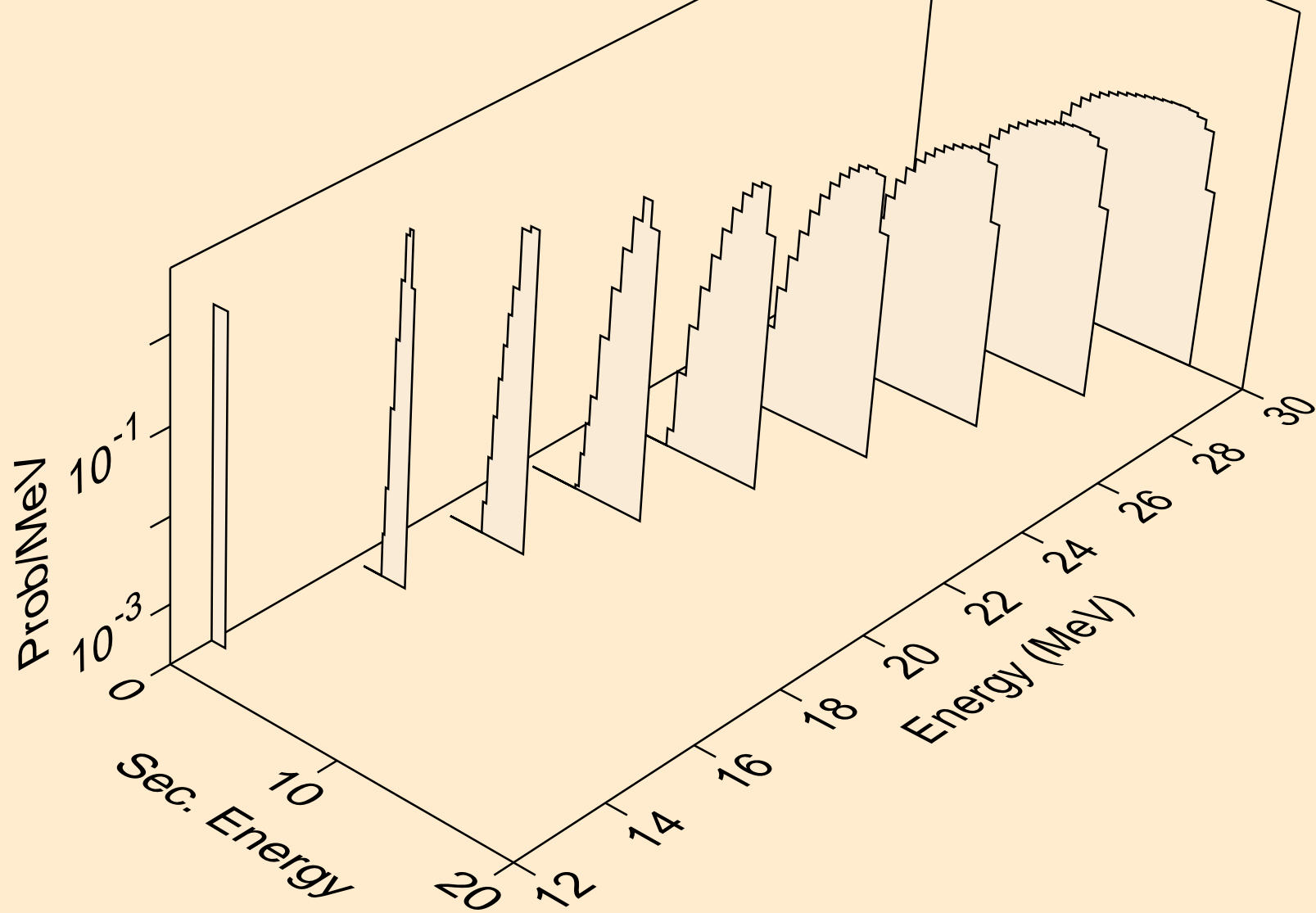
CS133 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
deuterons from (n,x)



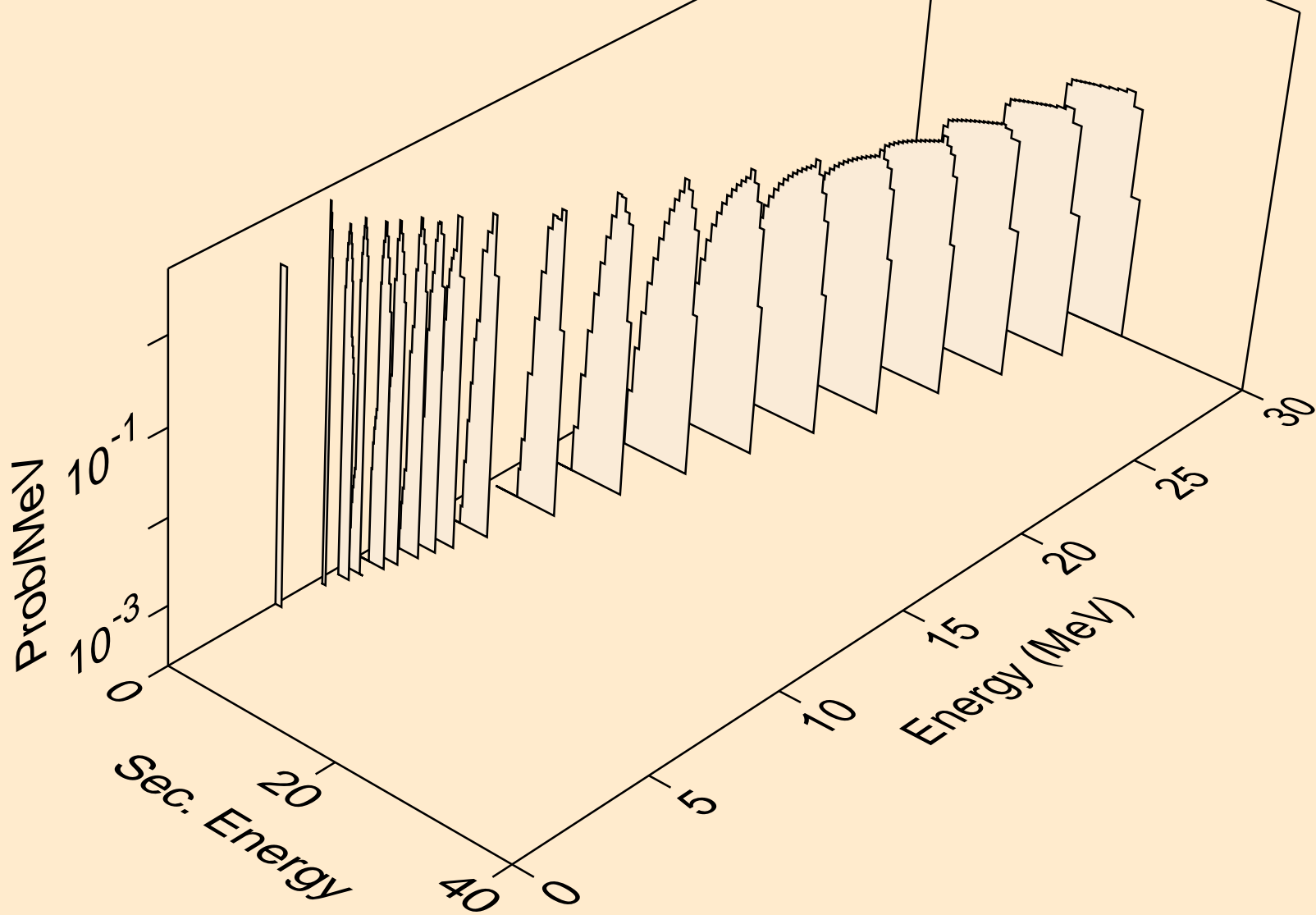
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deuterons from (n,2nd)



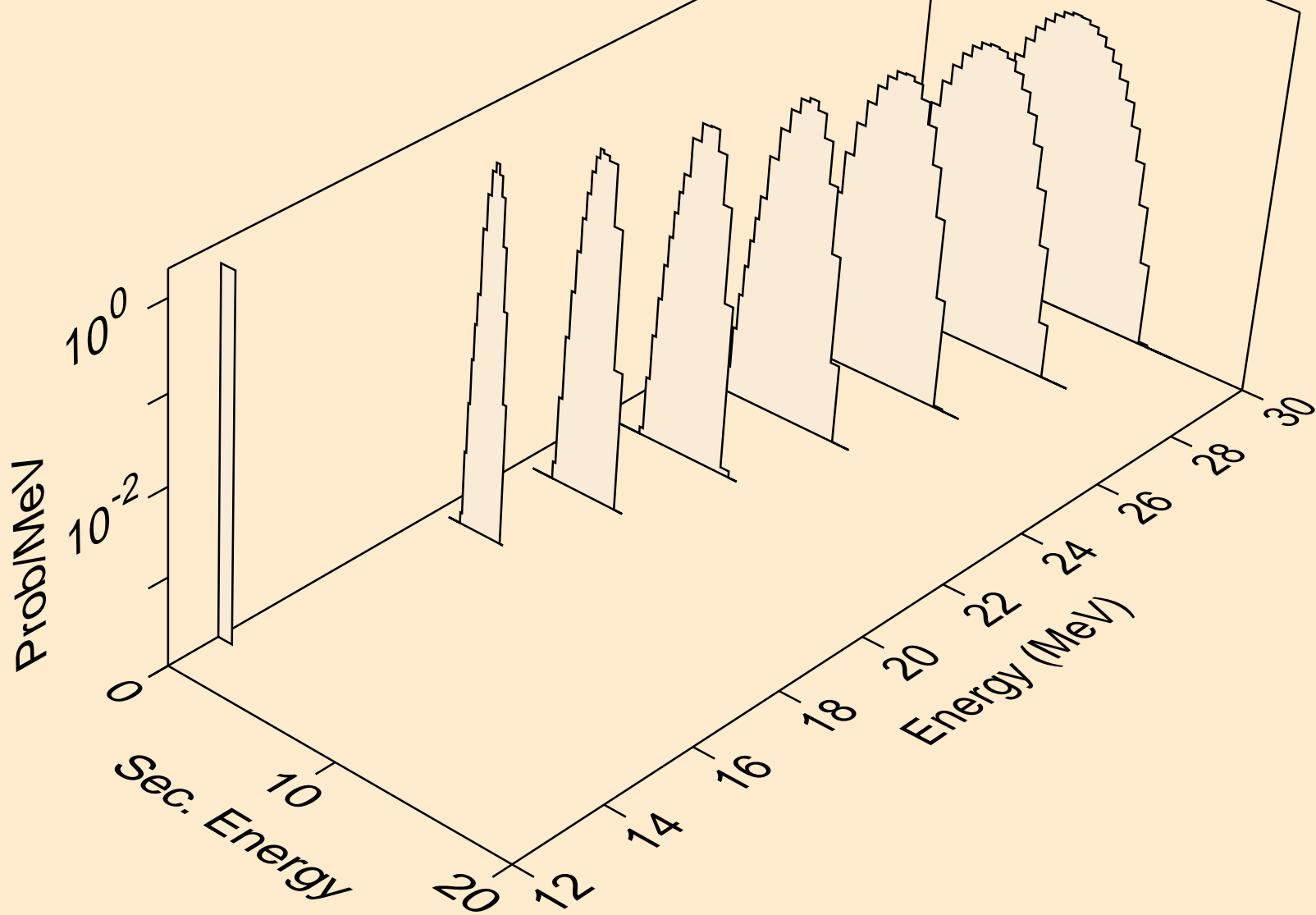
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deuterons from (n,n\*)d



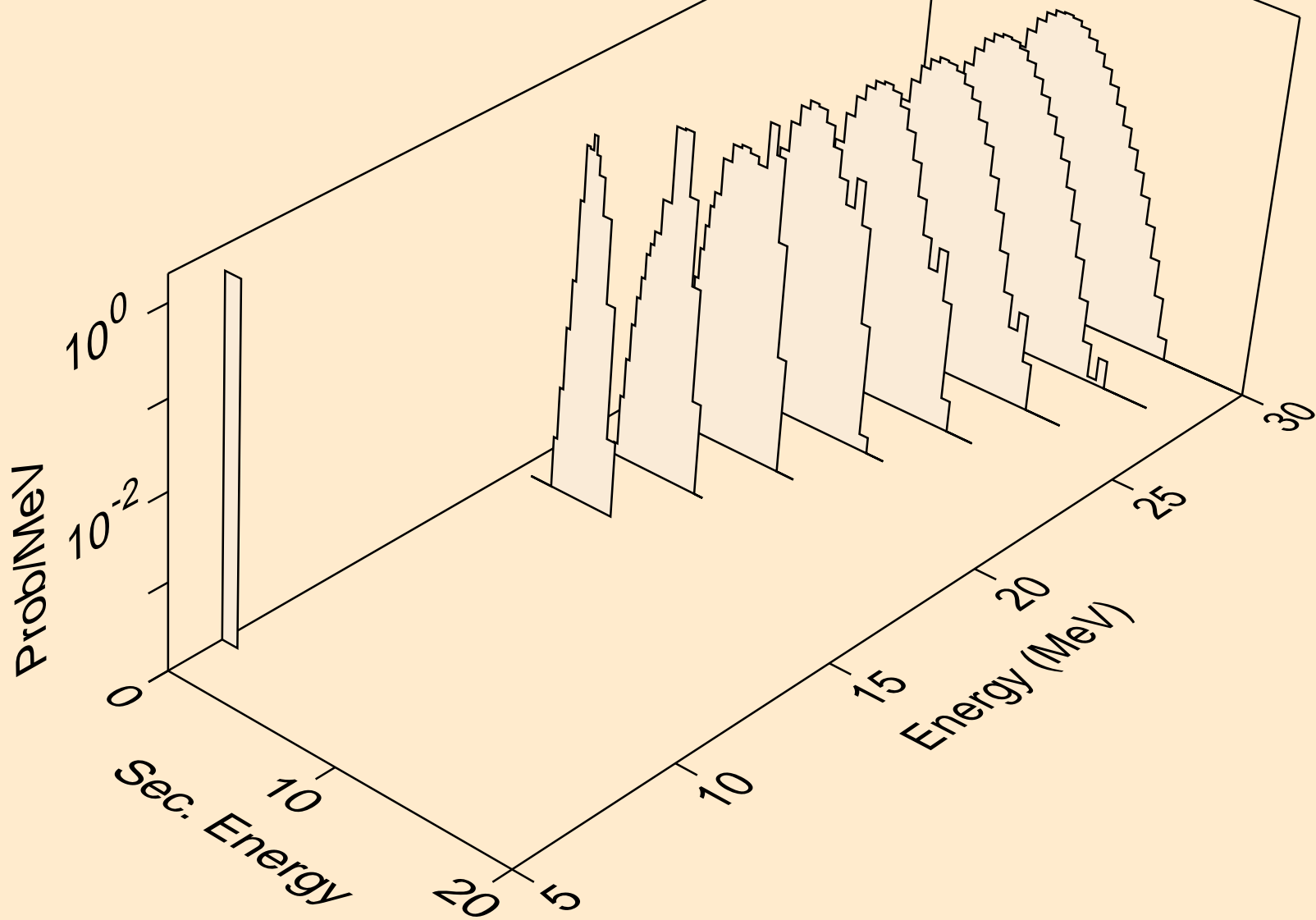
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deuterons from (n,d)



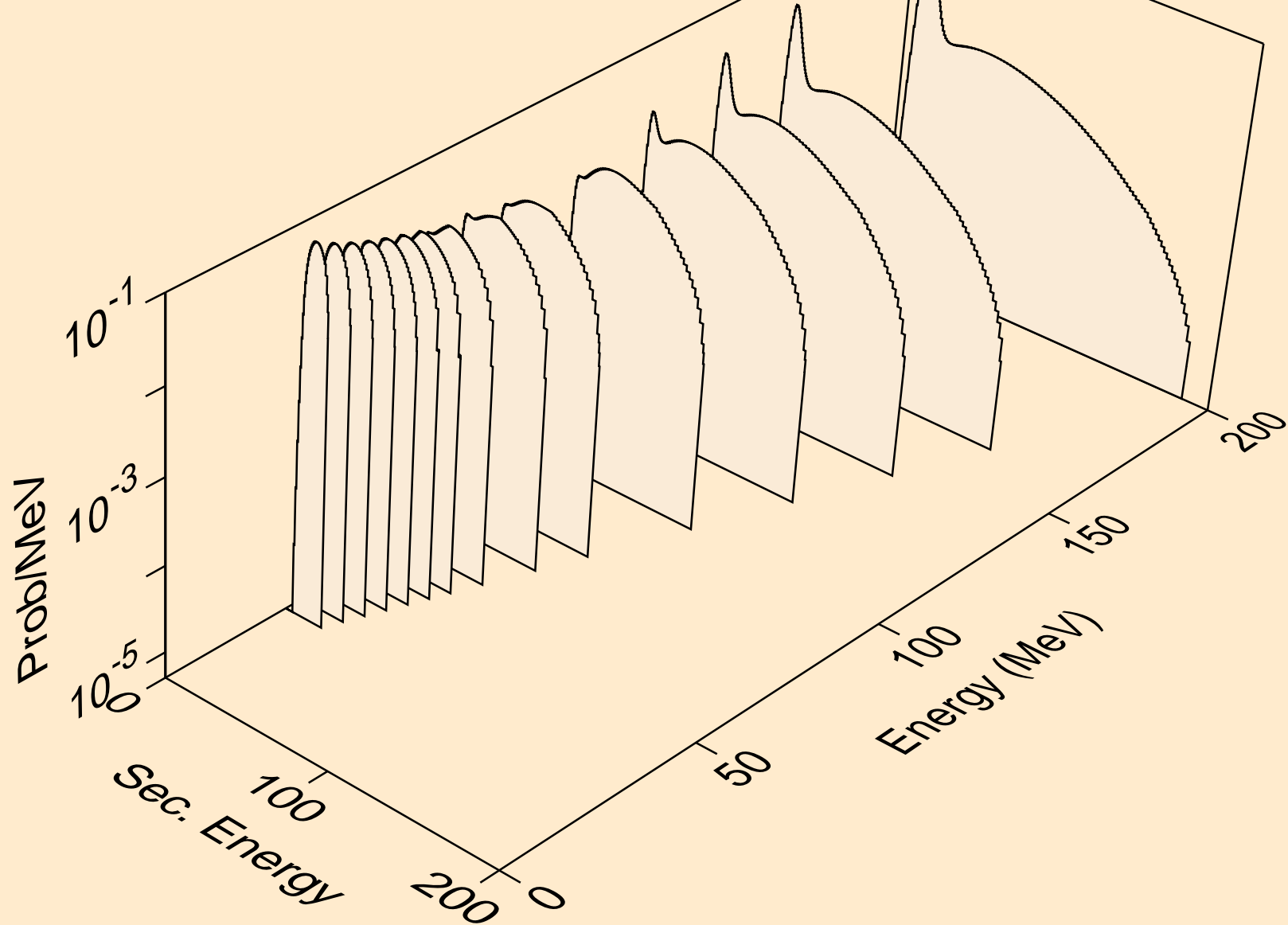
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deuterons from (n,pd)



CS133 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
deuterons from (n,da)

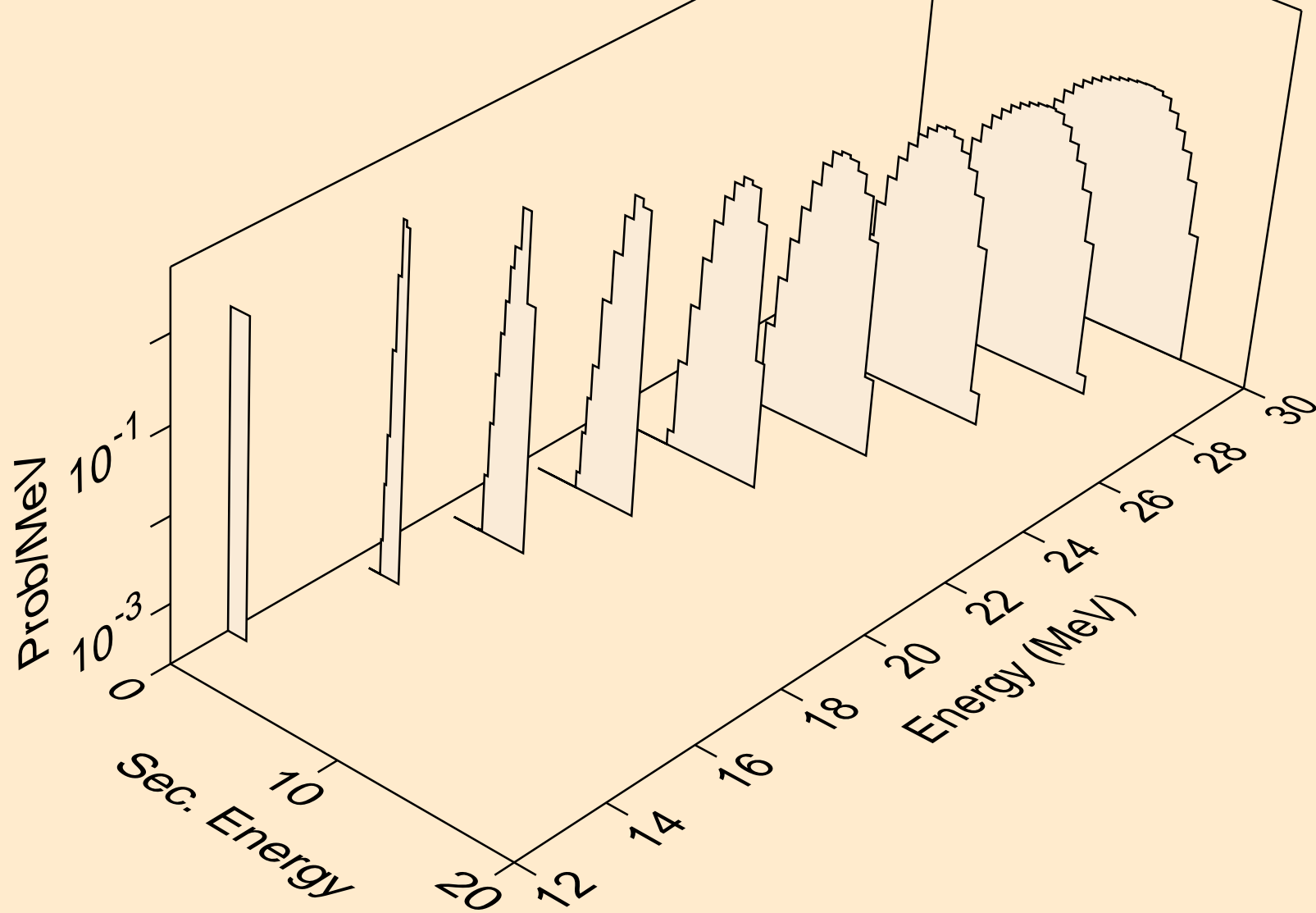


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tritons from (n,x)

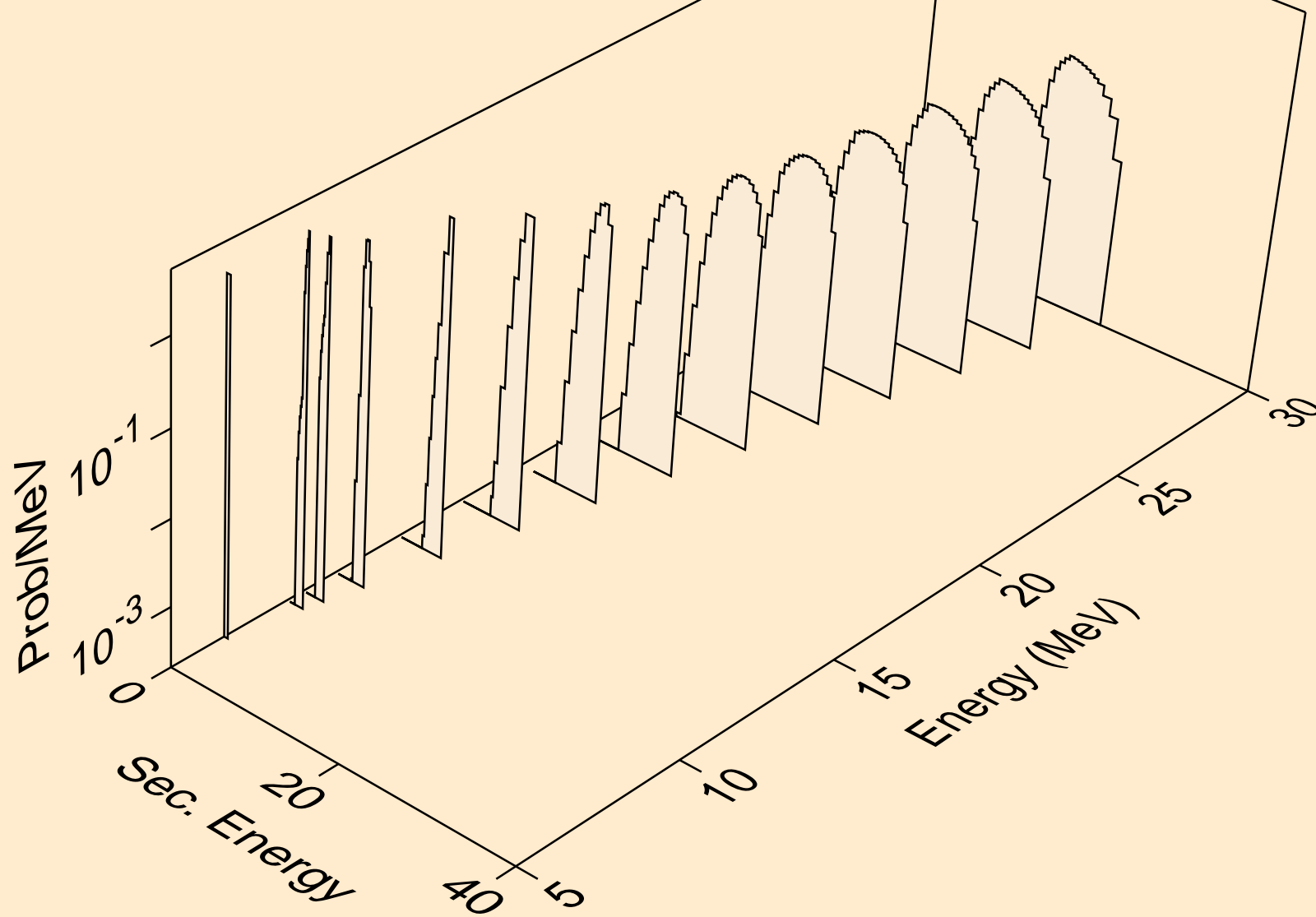




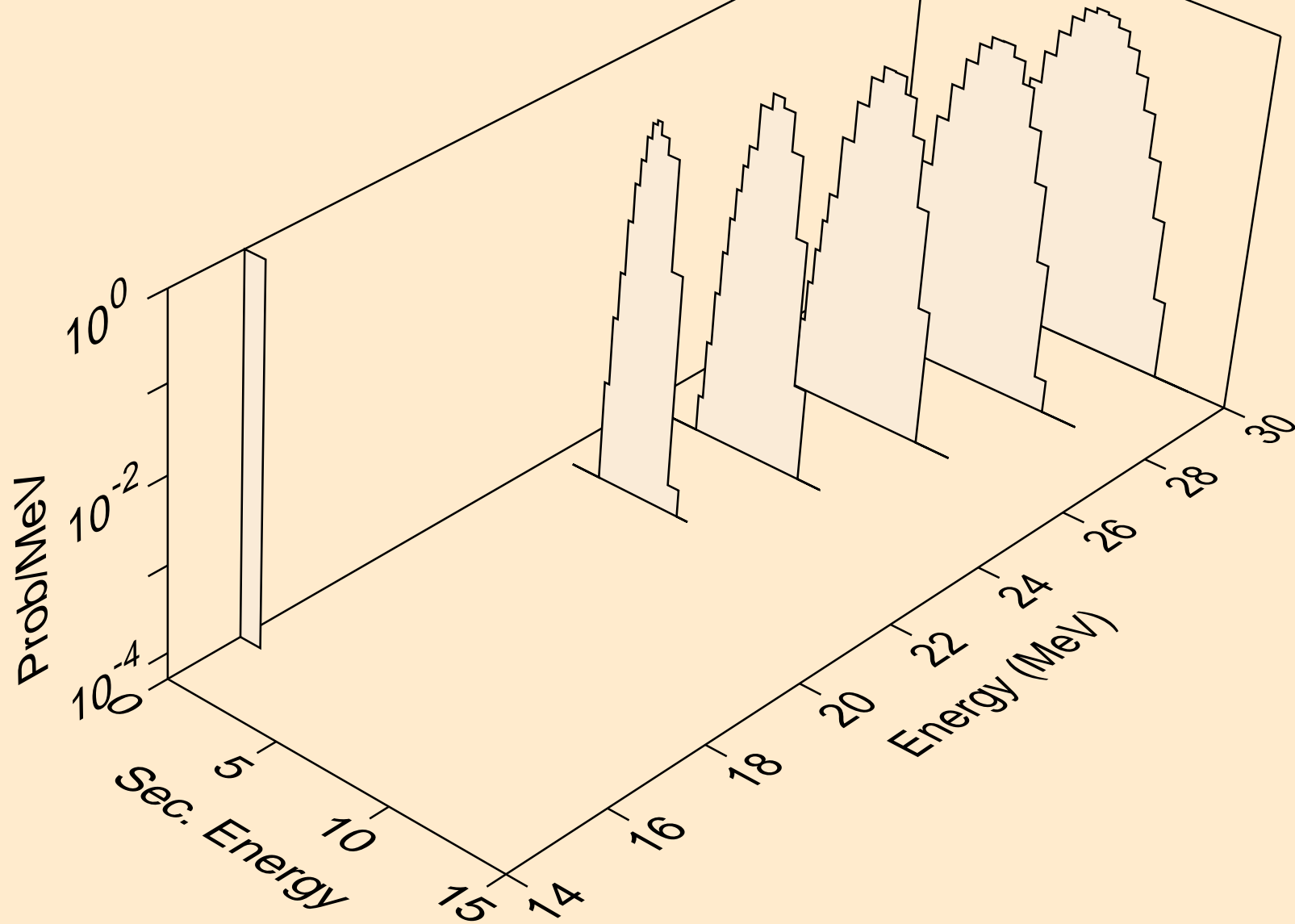
CS133 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
tritons from (n,n\*)t



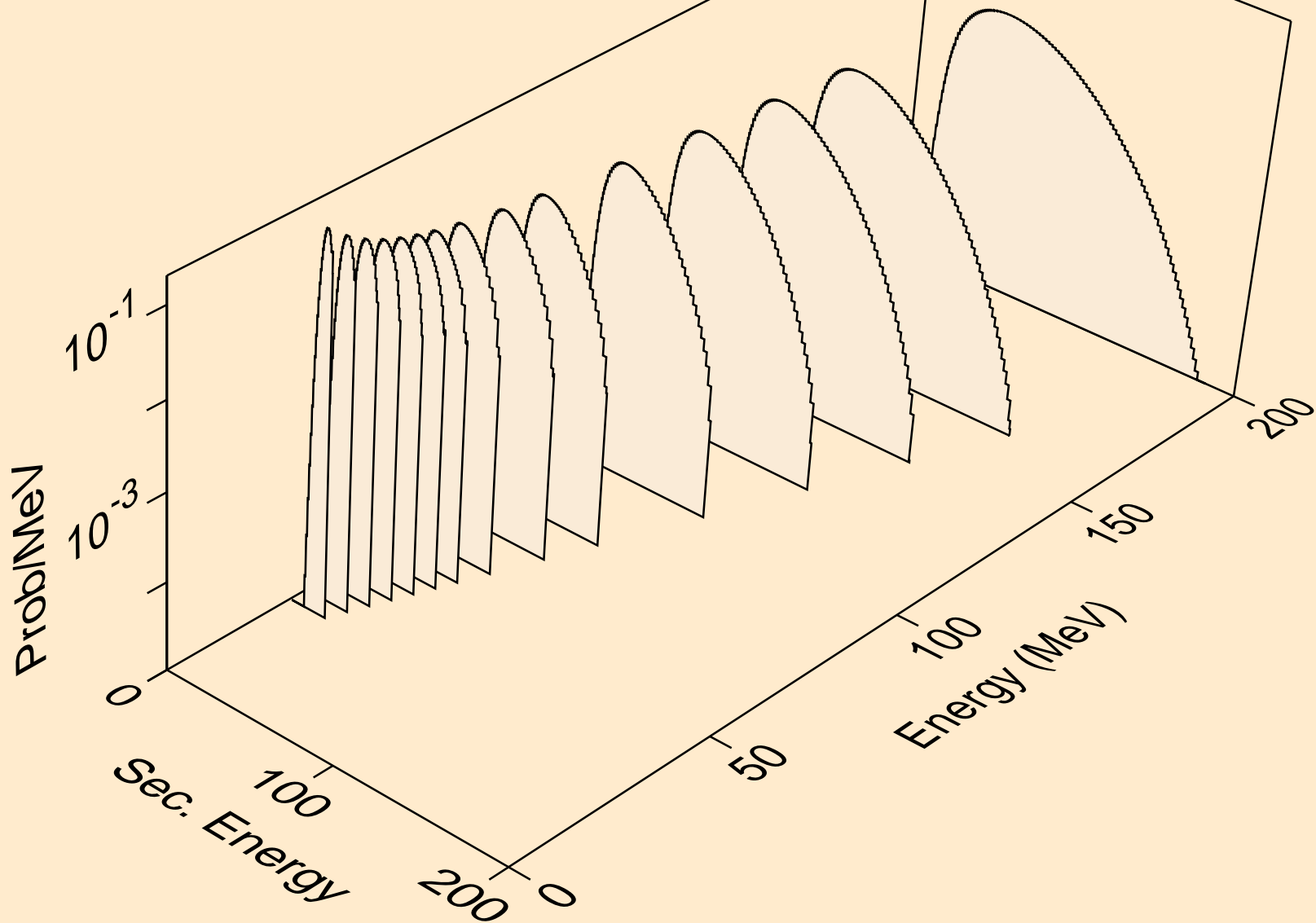
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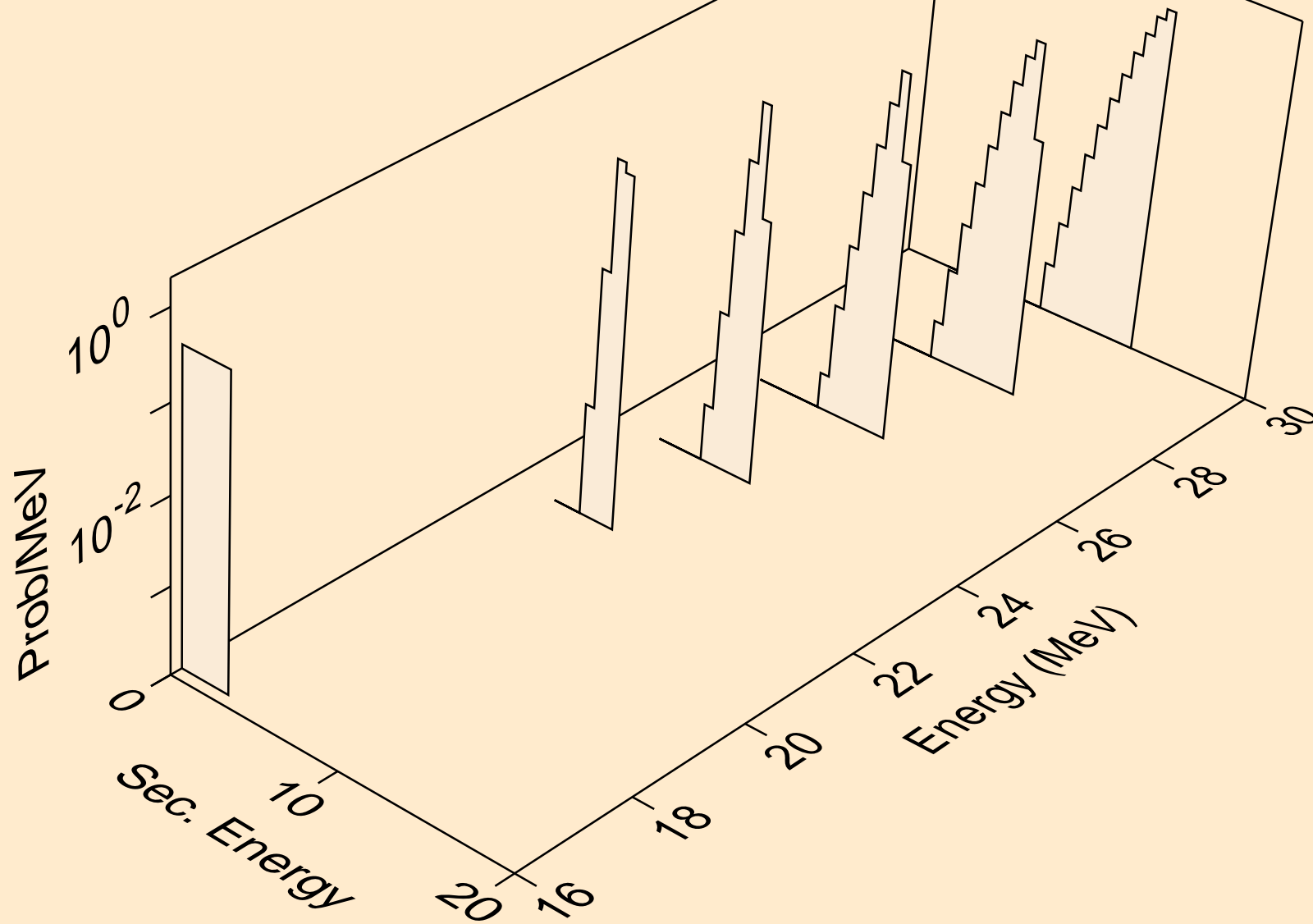
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tritons from (n,pt)



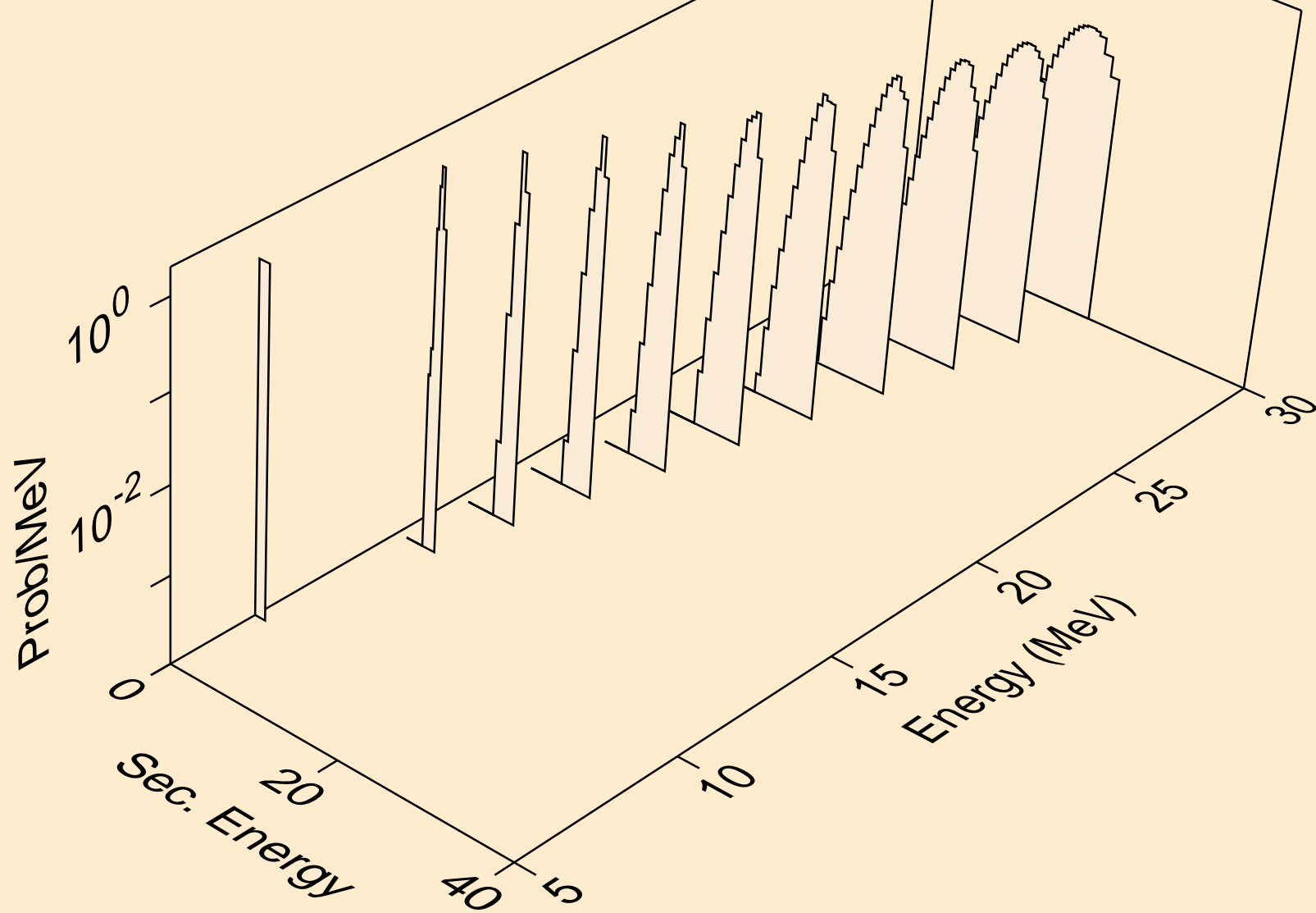
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he3s from (n,x)



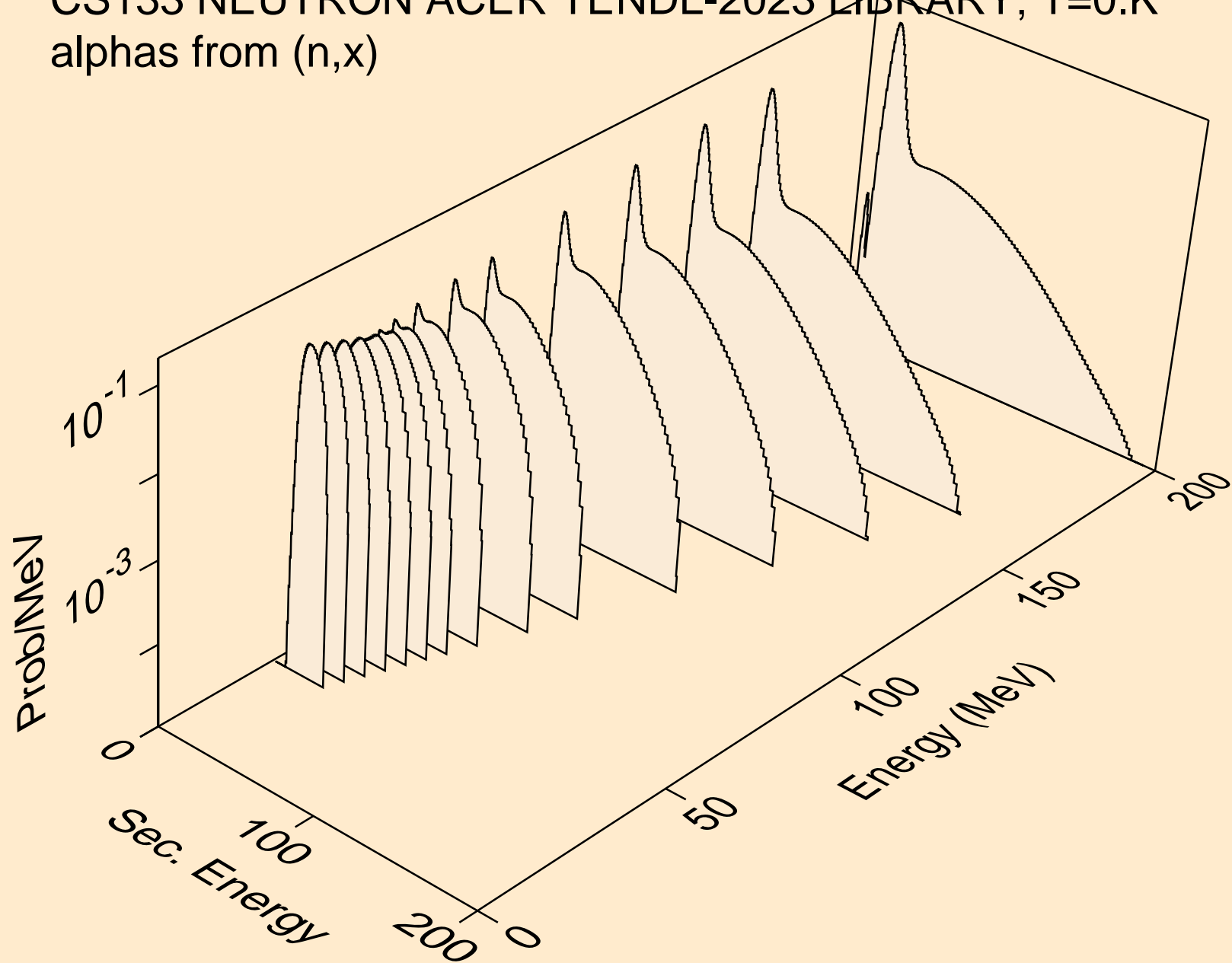
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he3s from (n,n\*)he3



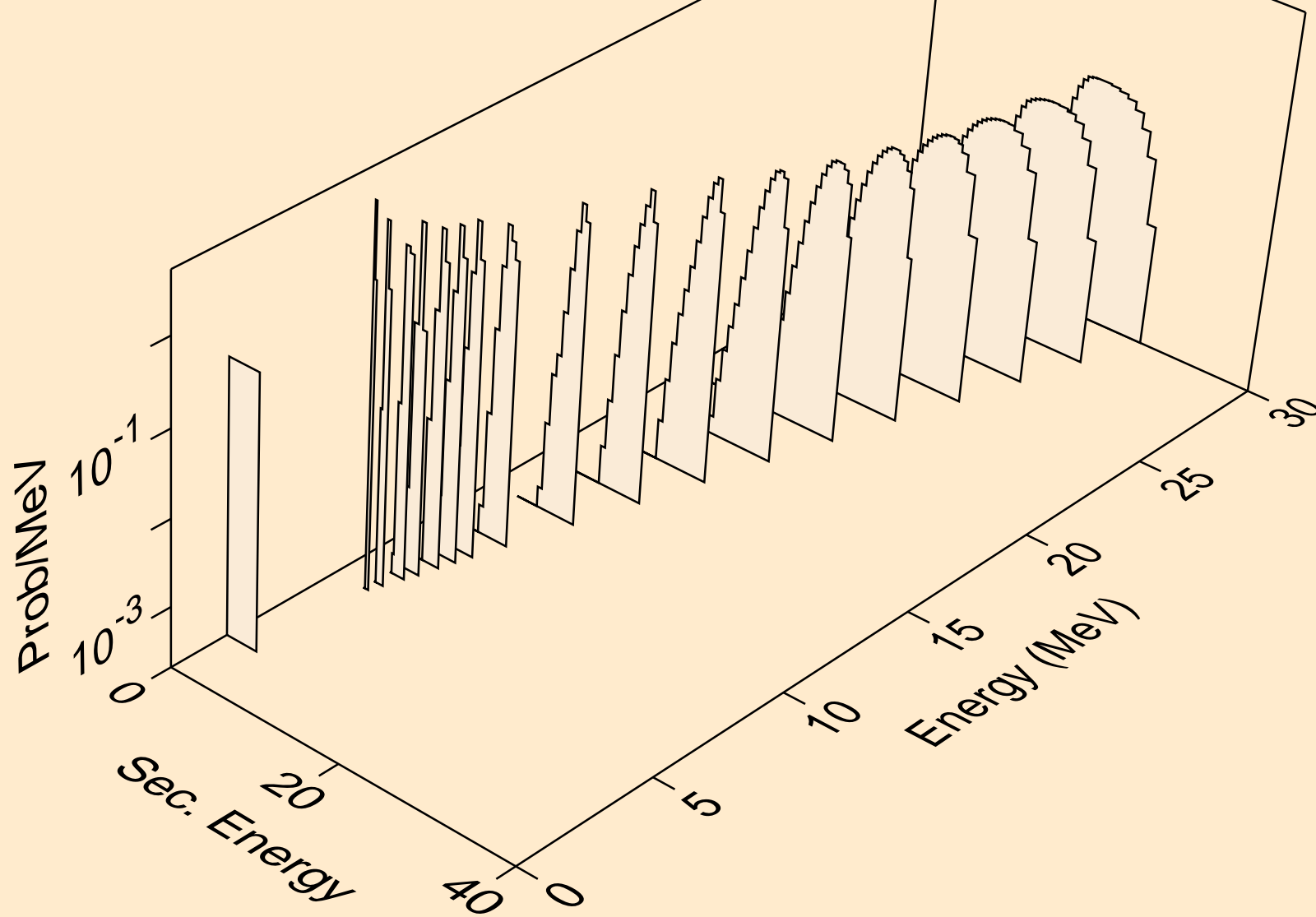
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he3s from (n,he3)



CS133 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,x)

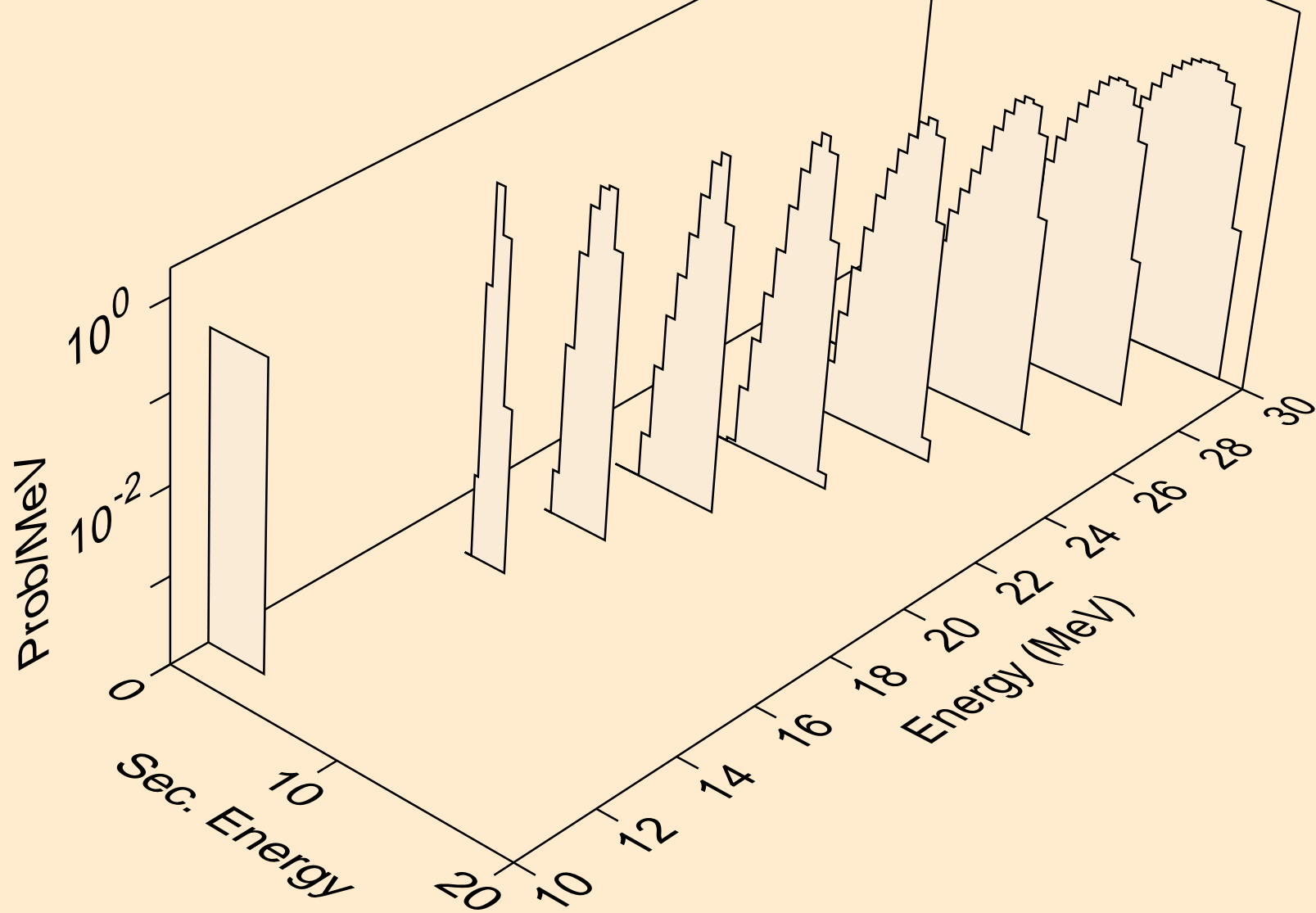


CS133 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,n\*)a

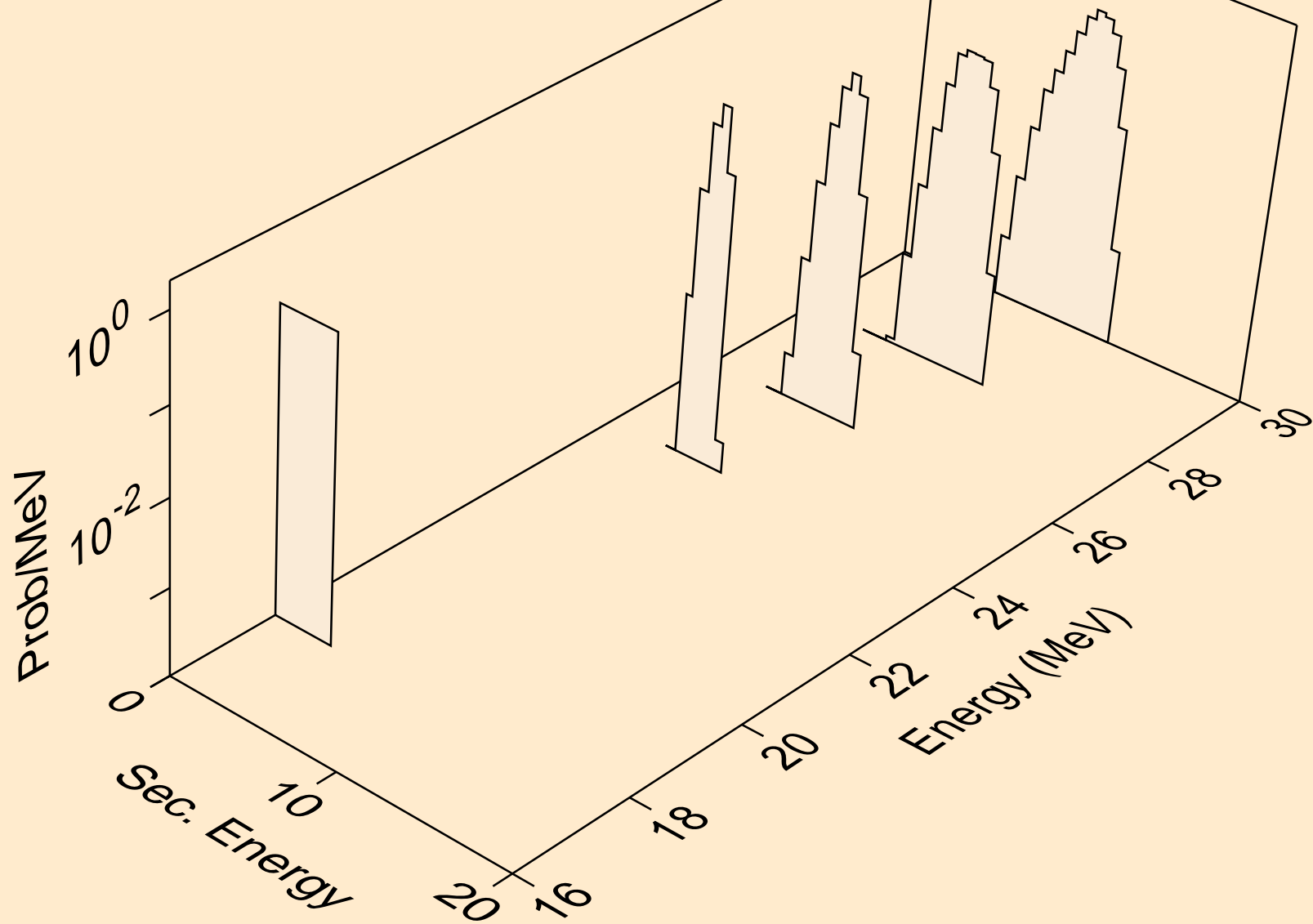




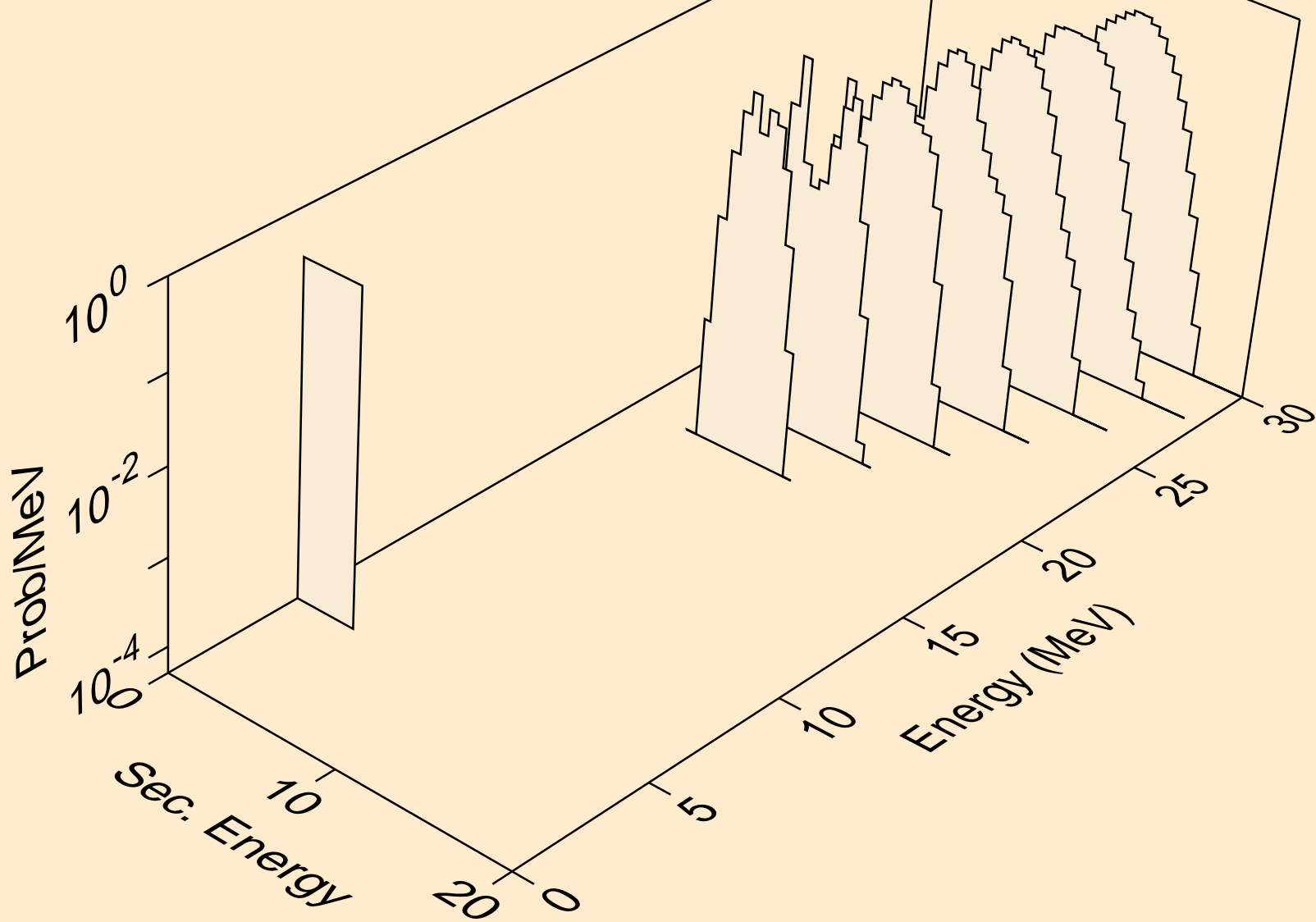
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alphas from (n,2n)a



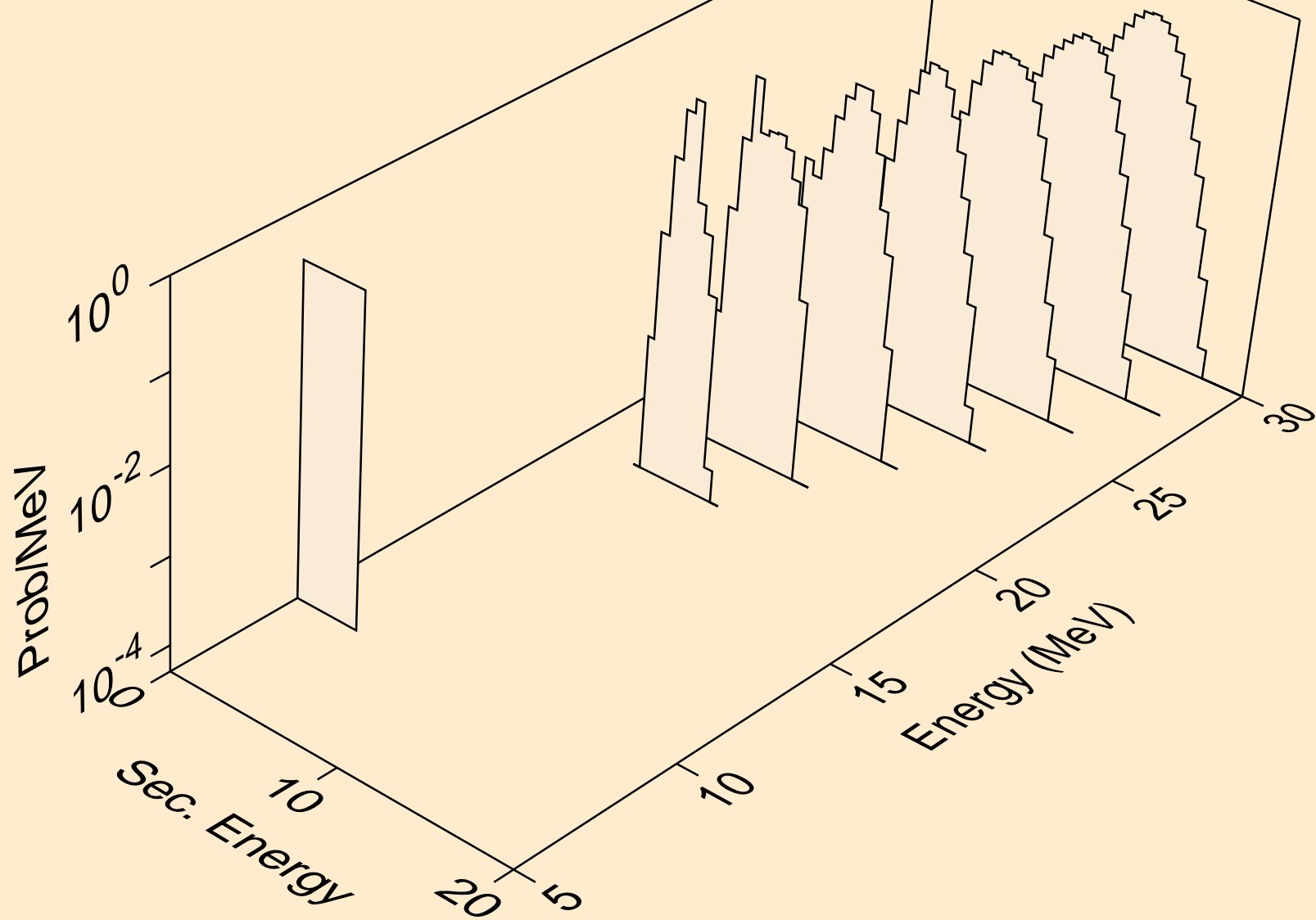
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alphas from (n,3n)a



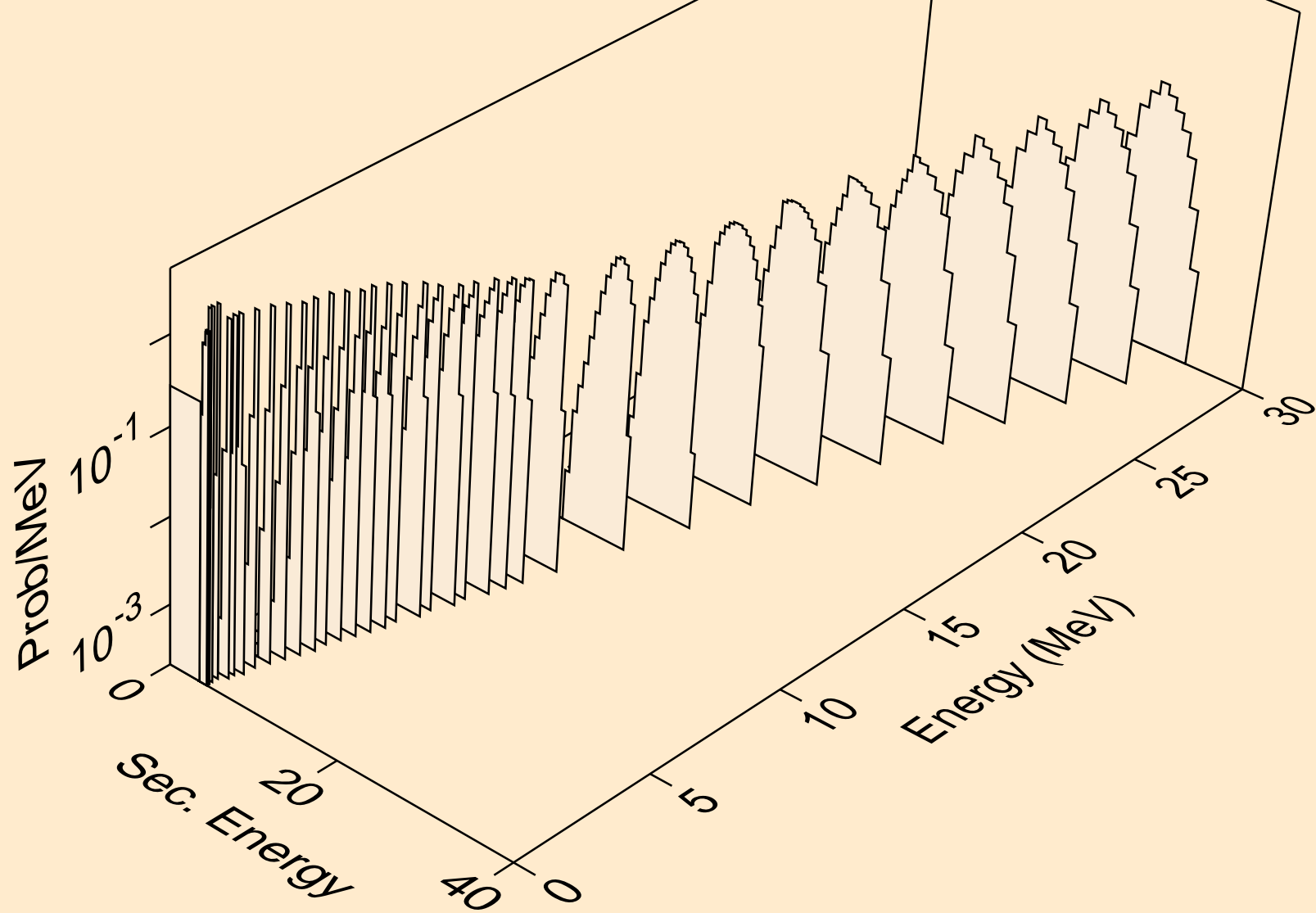
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alphas from (n,n\*)2a



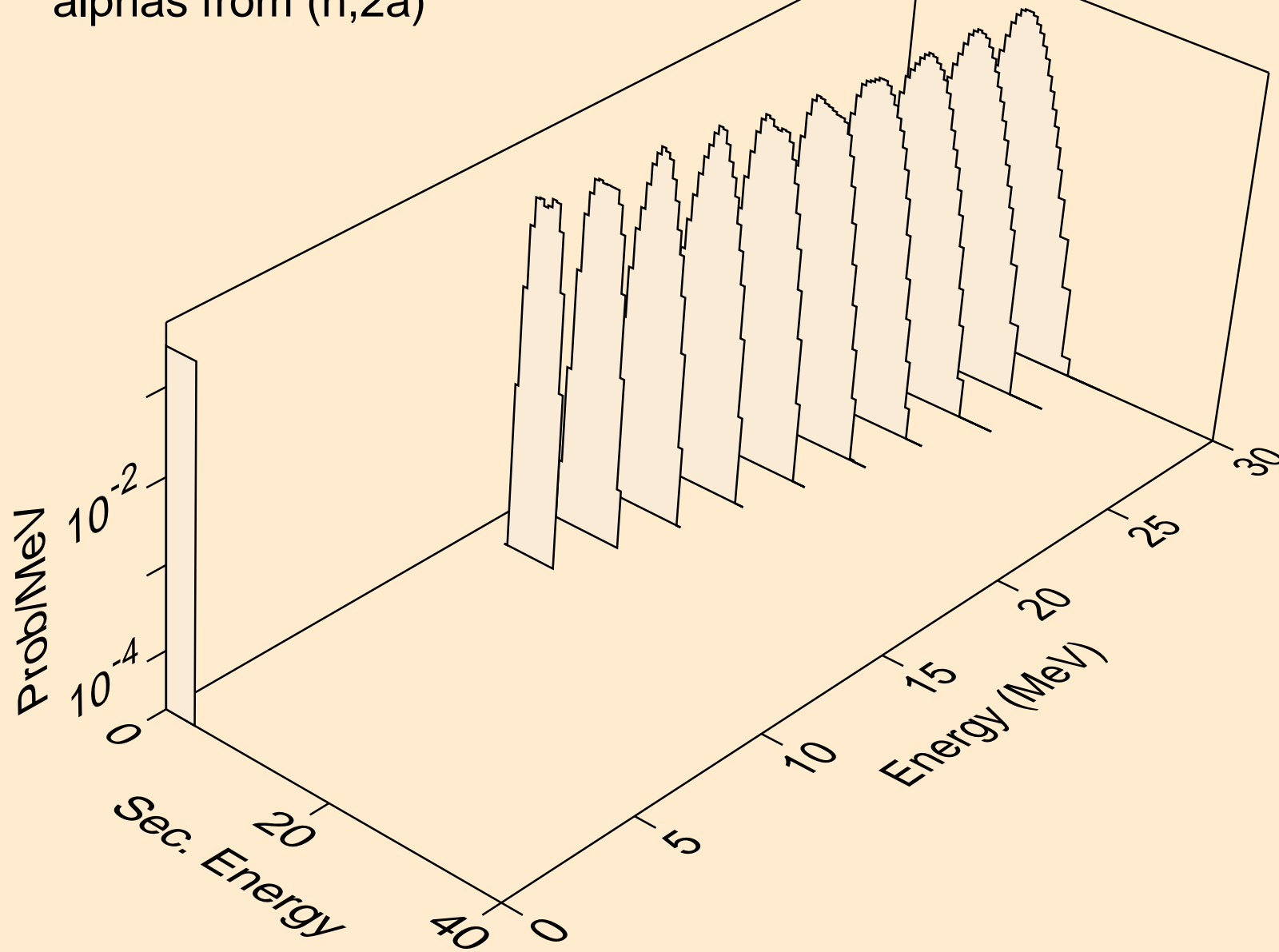
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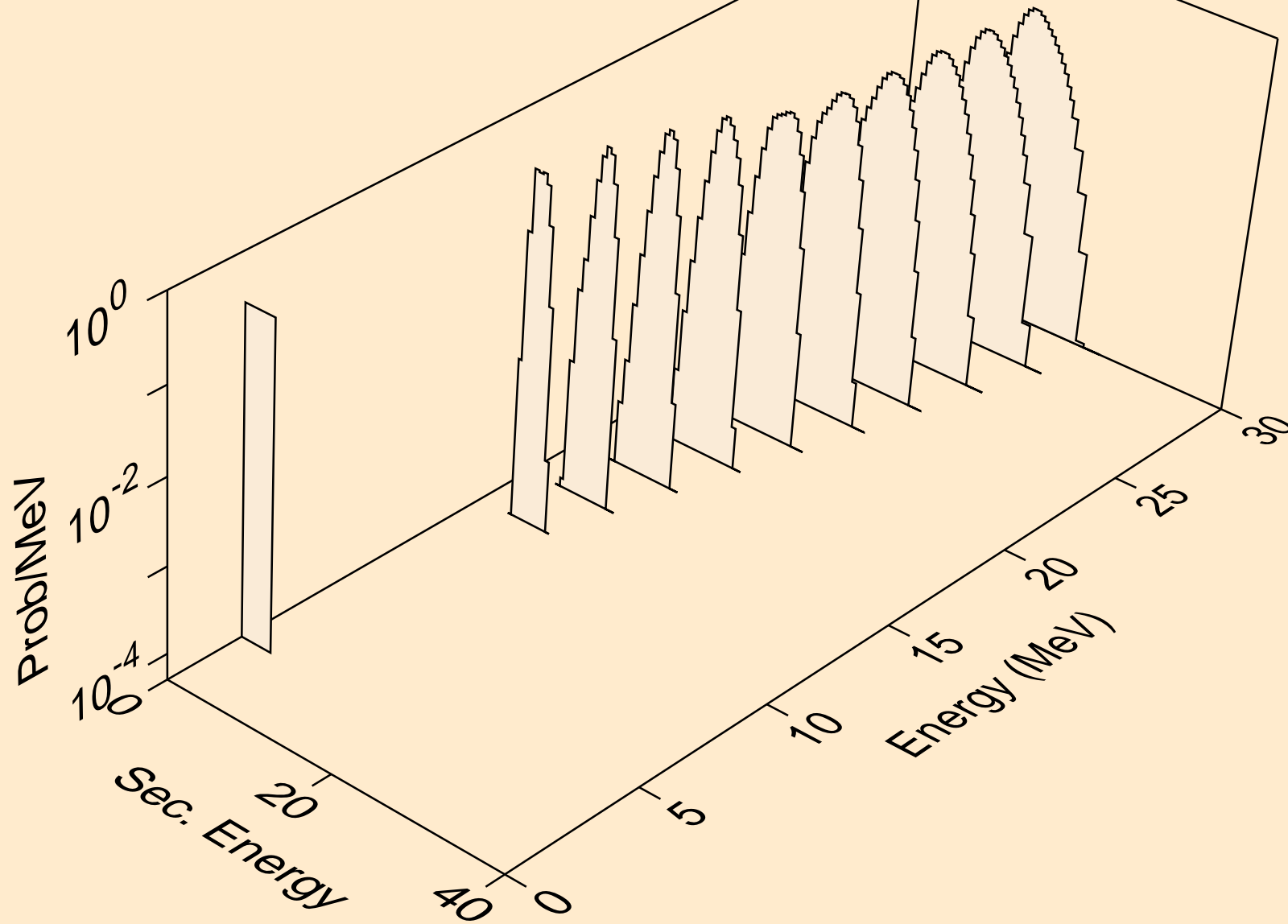
CS133 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,a)



CS133 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,2a)



CS133 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,pa)



CS133 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,da)

