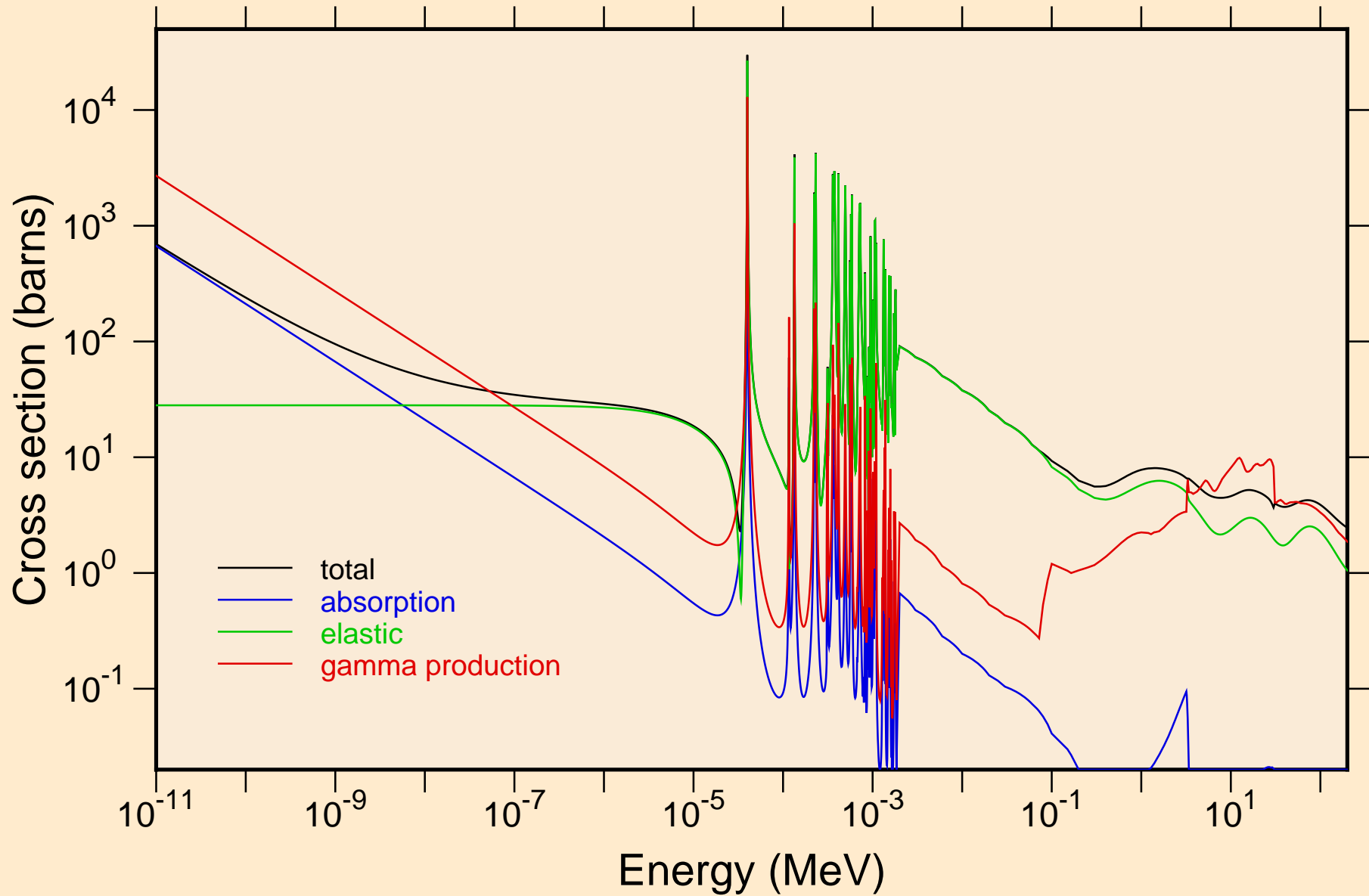
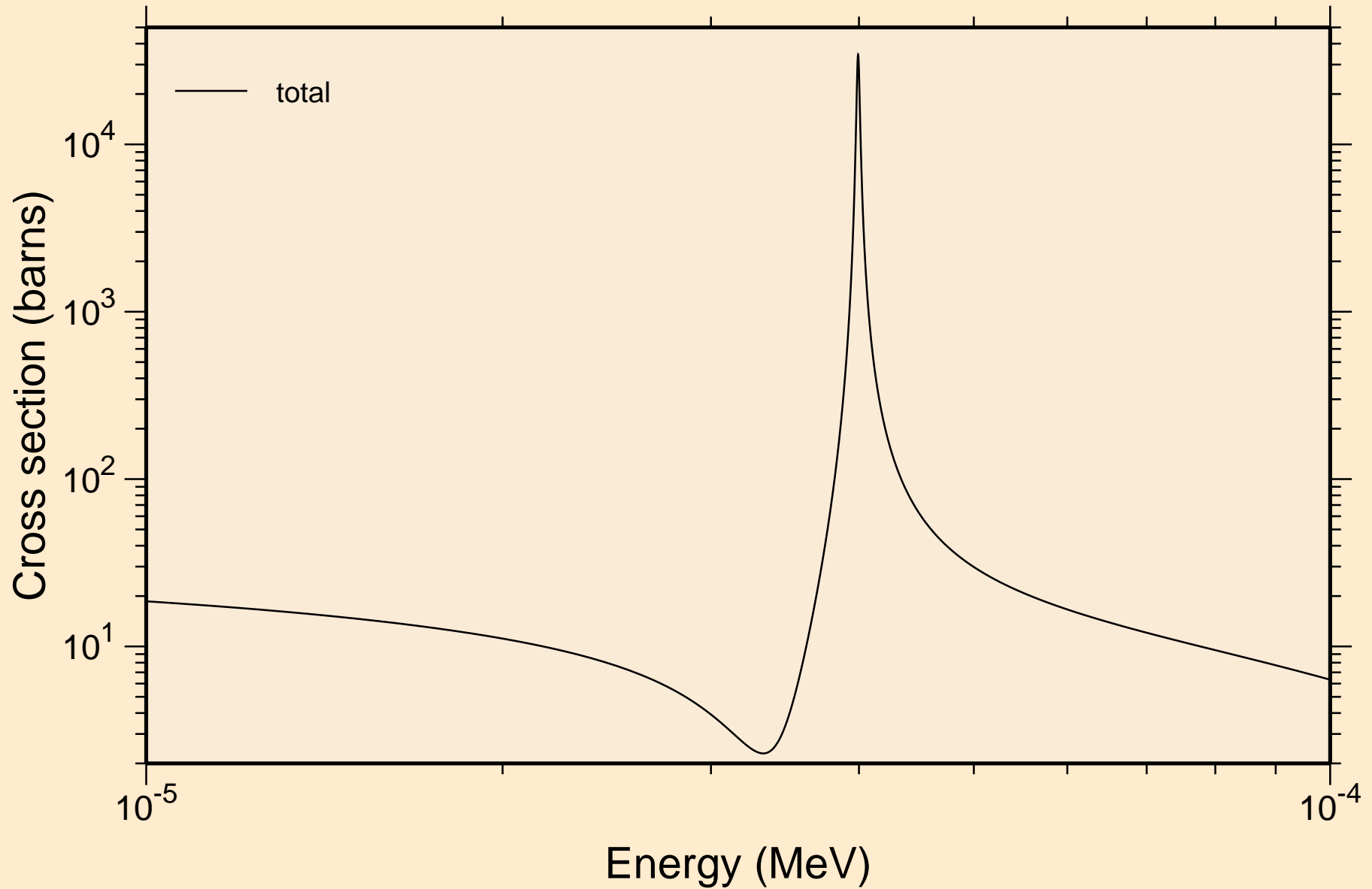


# SM159 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

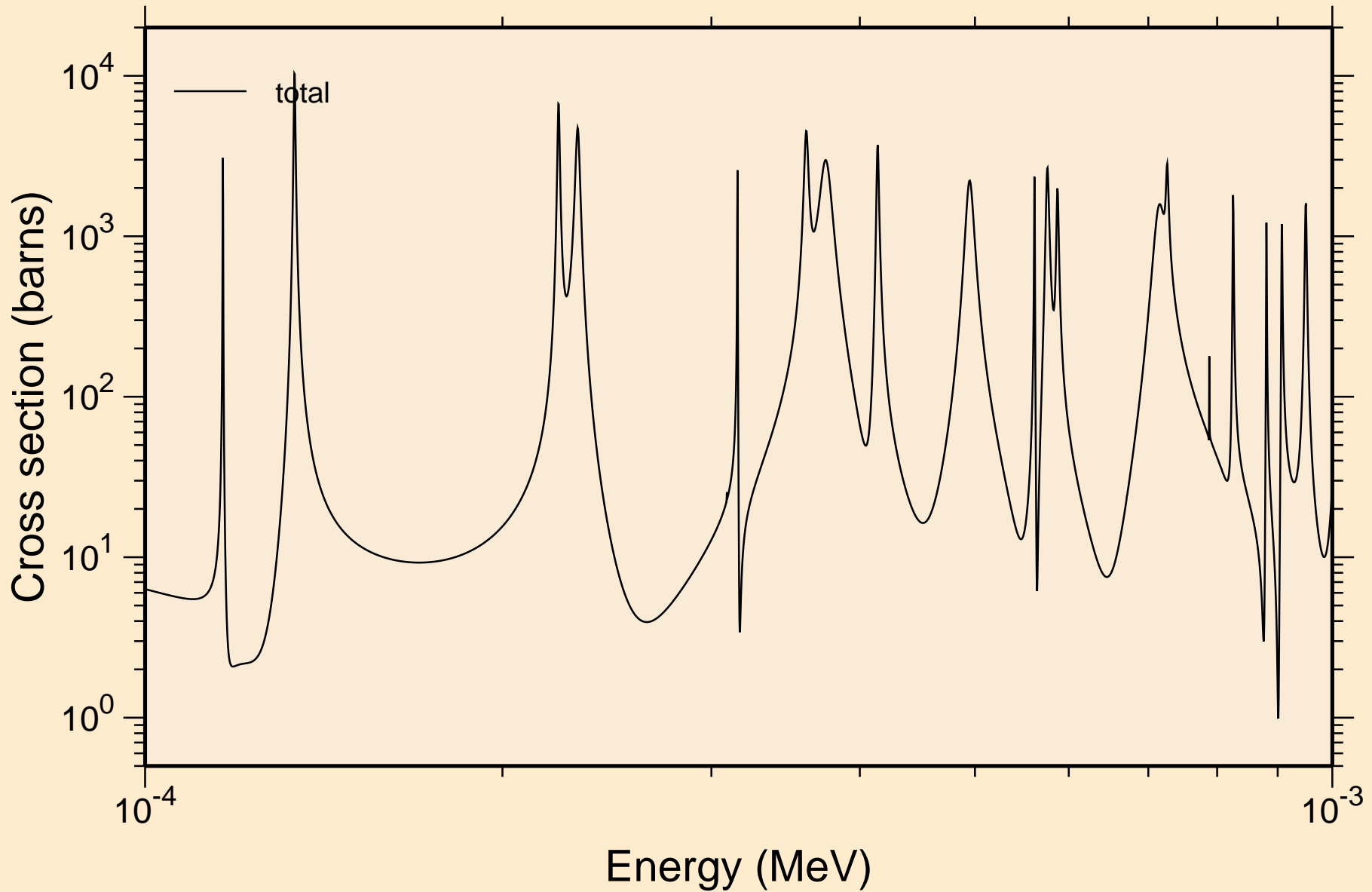
## Principal cross sections



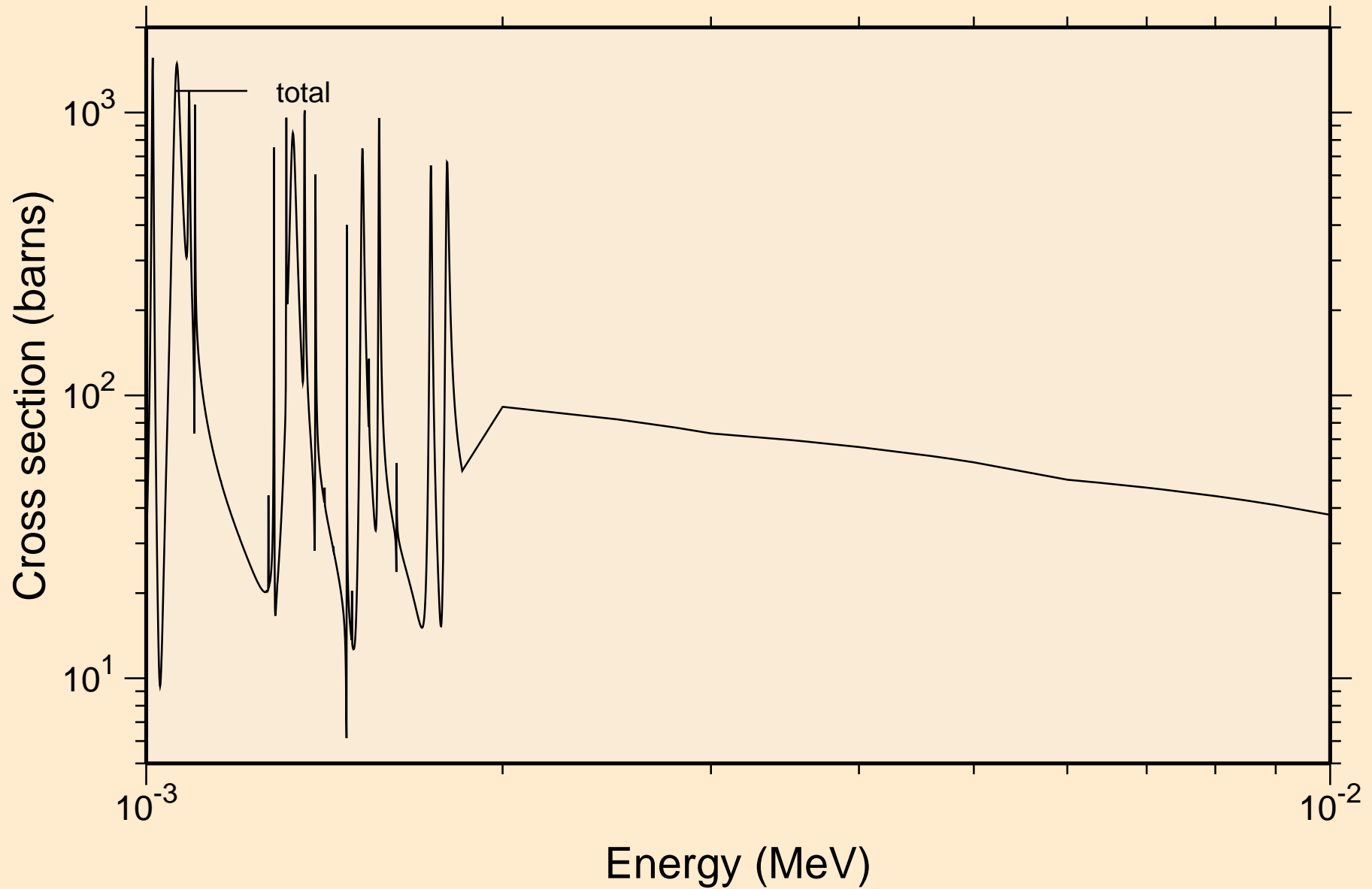
SM159 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
resonance total cross section



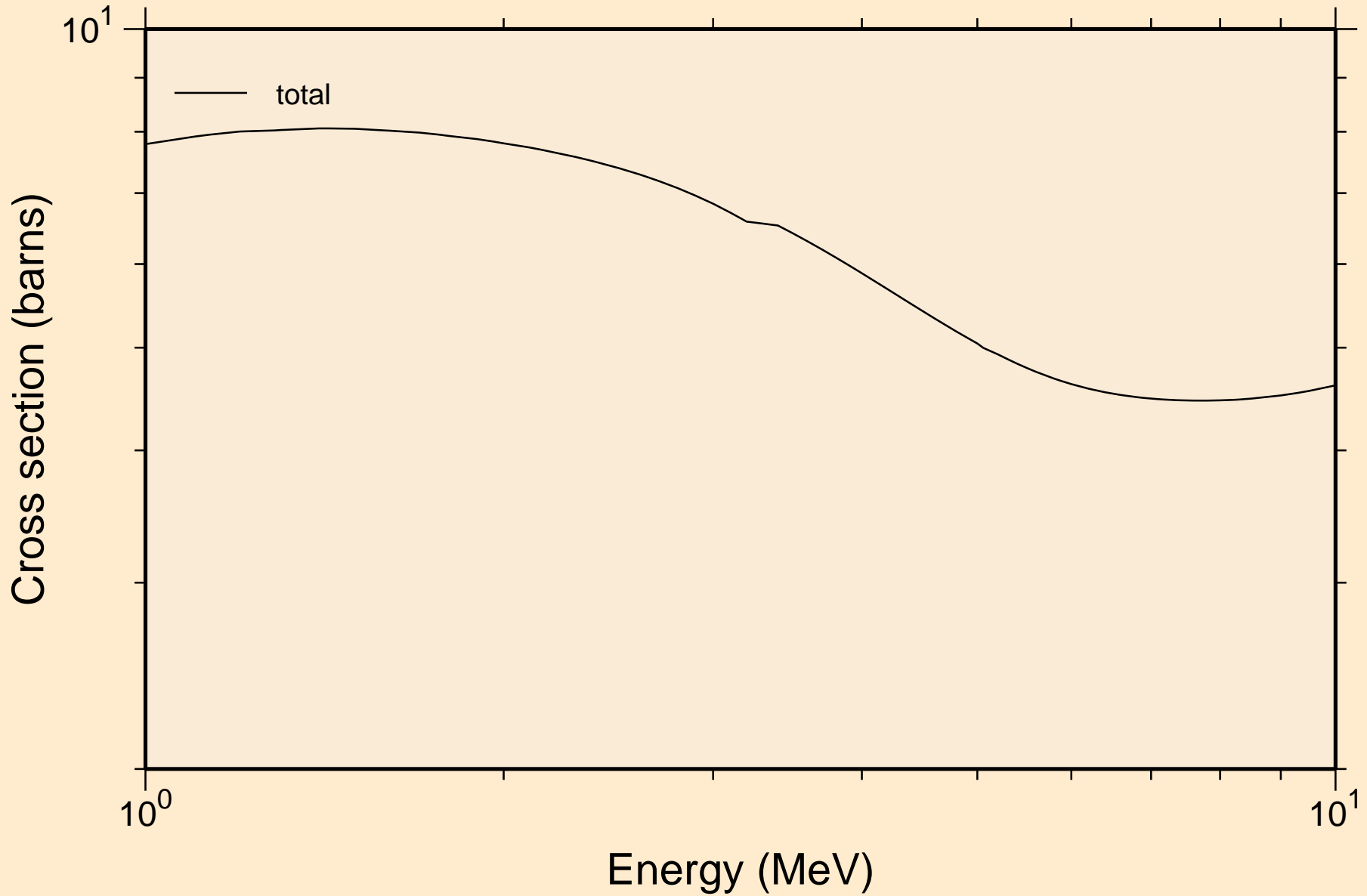
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resonance total cross section



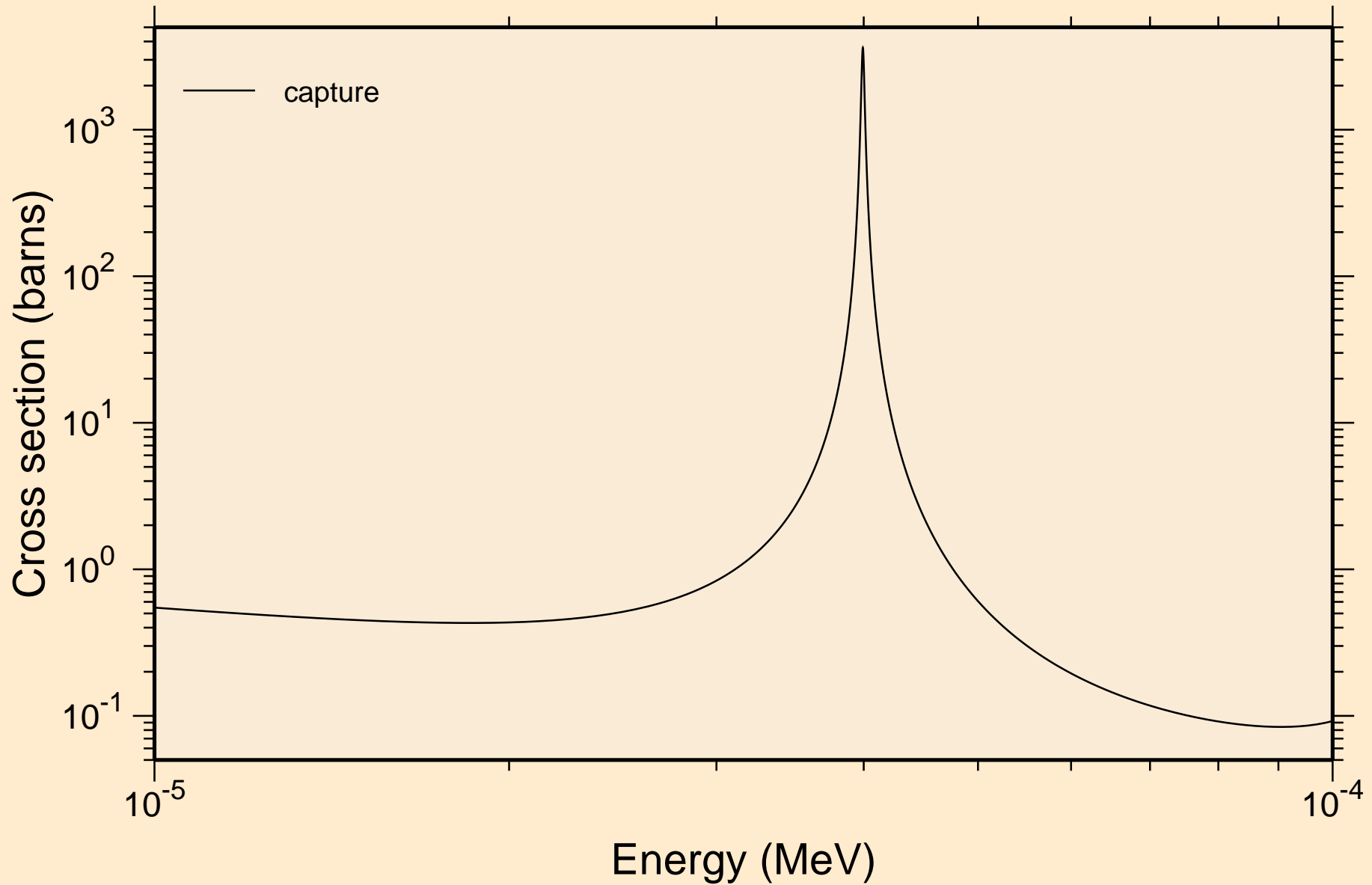
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resonance total cross section



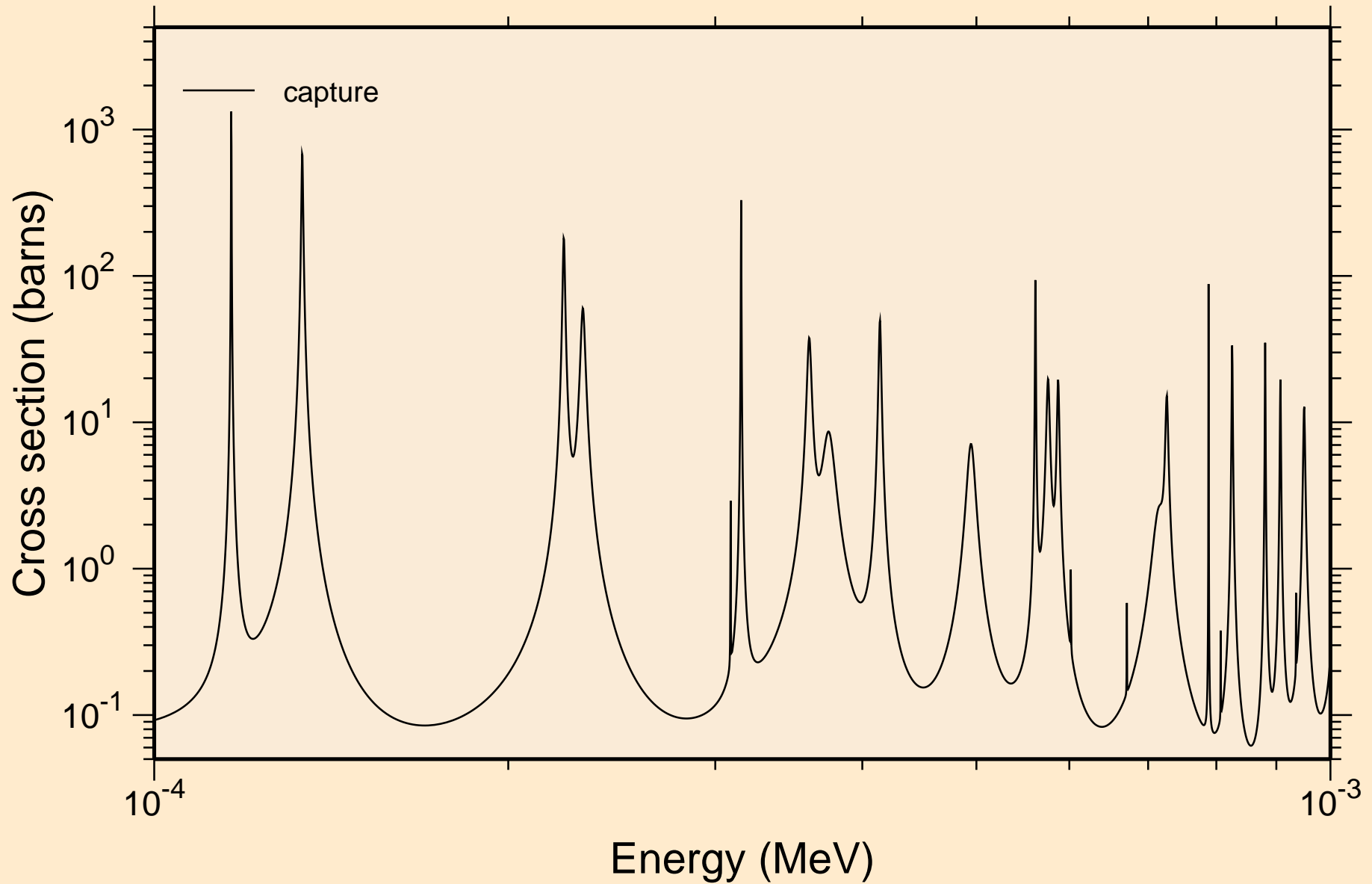
SM159 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
resonance total cross section



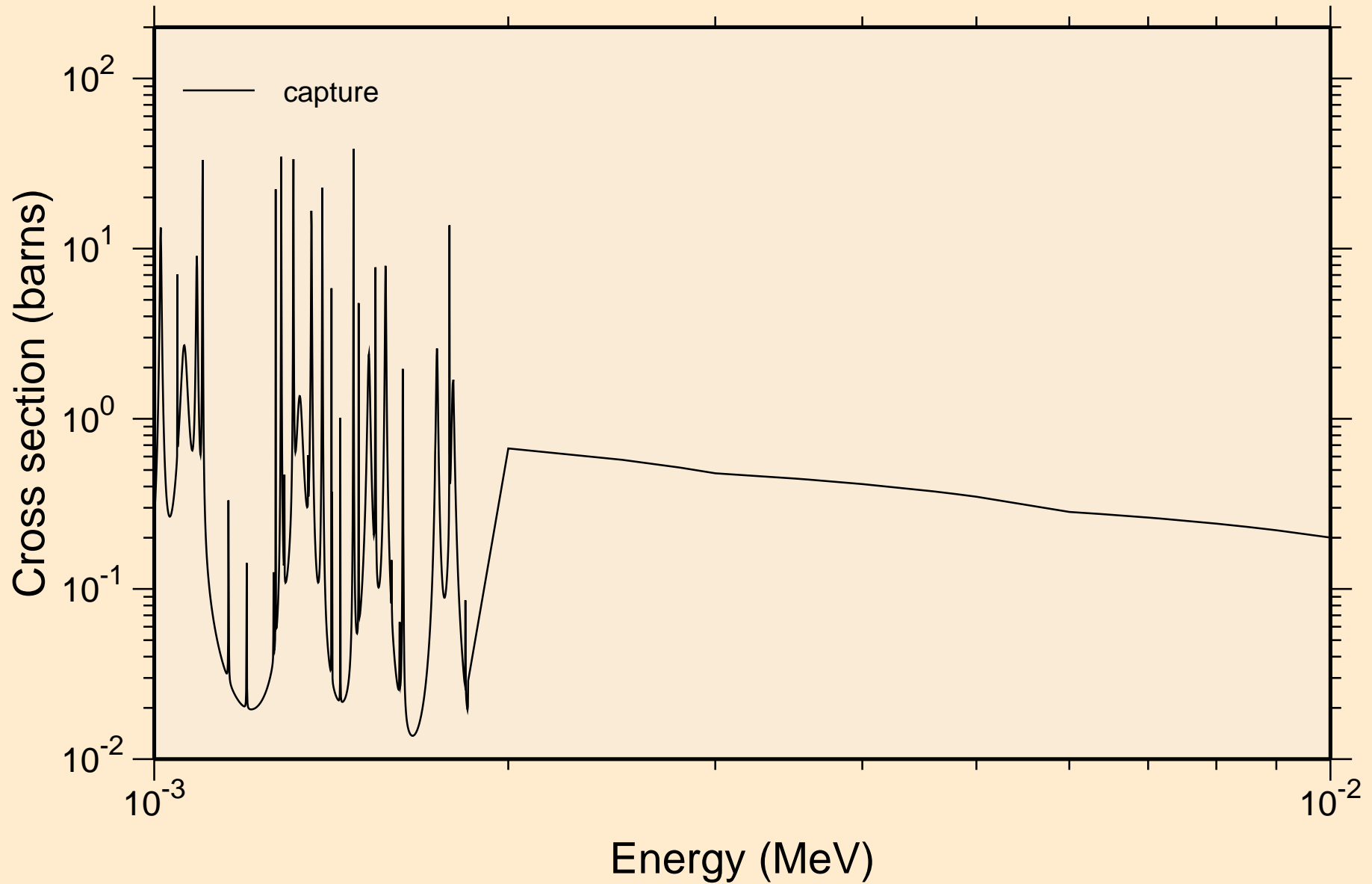
SM159 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
resonance absorption cross sections



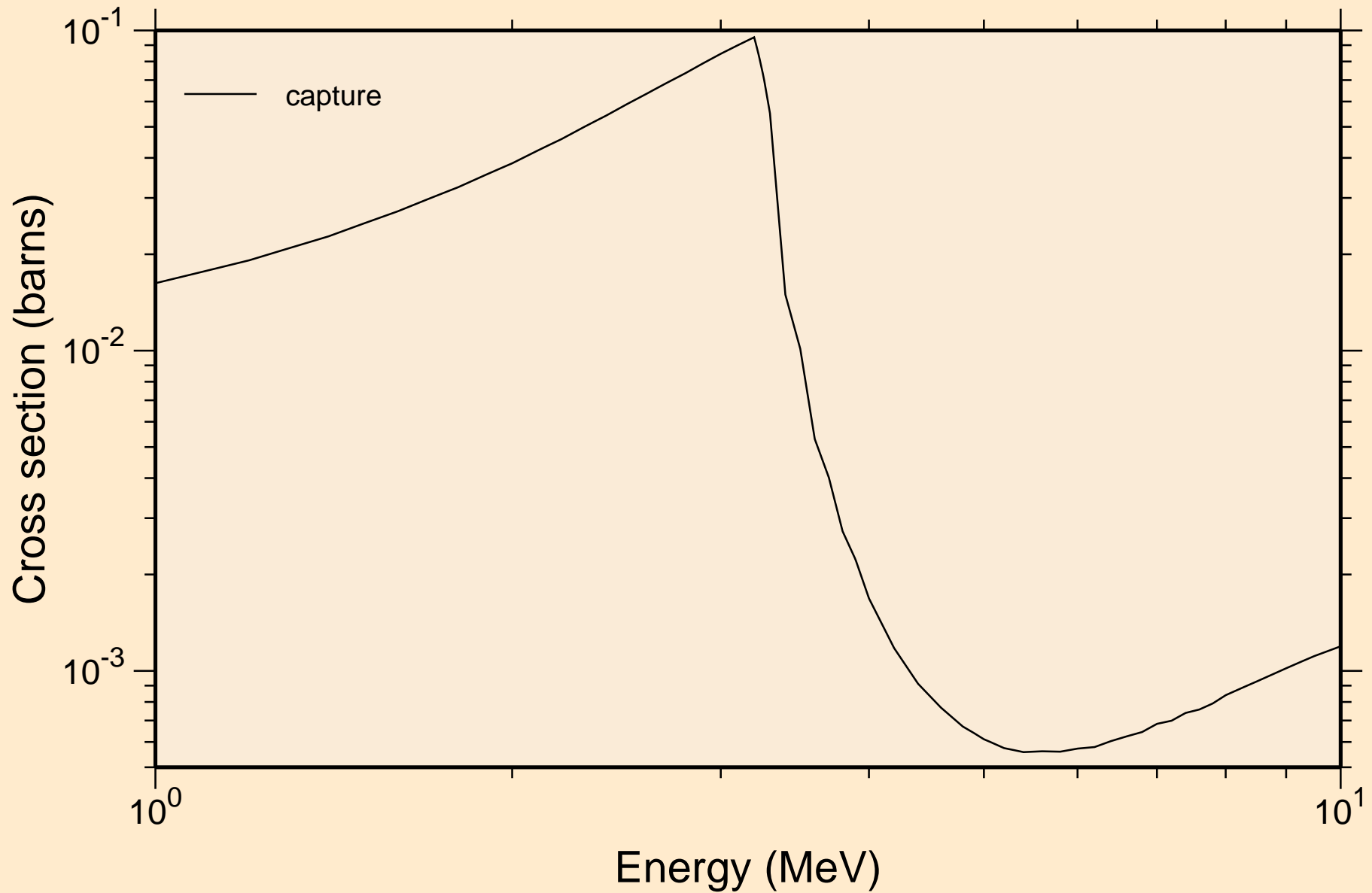
SM159 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
resonance absorption cross sections



SM159 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
resonance absorption cross sections

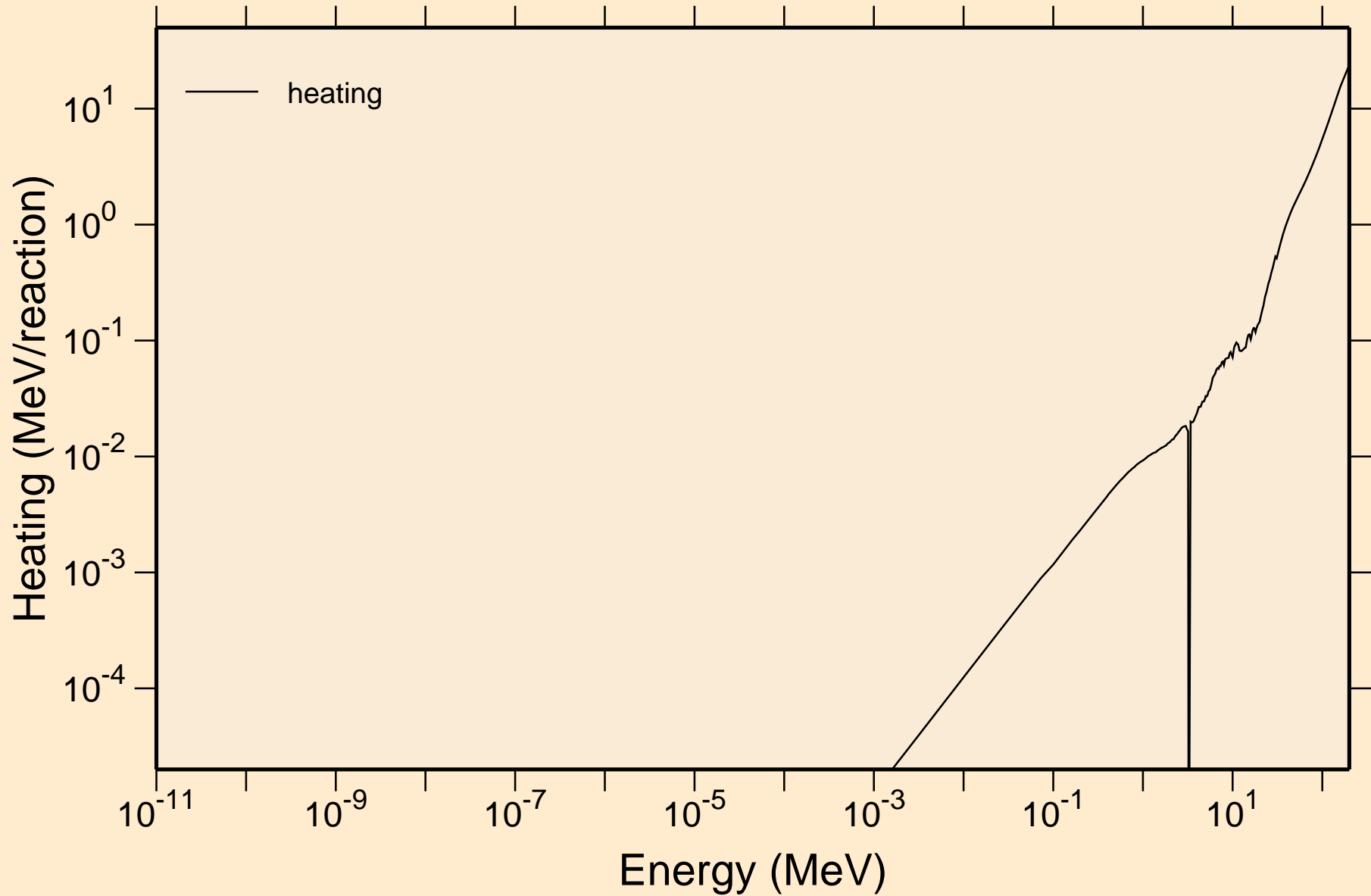


SM159 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
resonance absorption cross sections



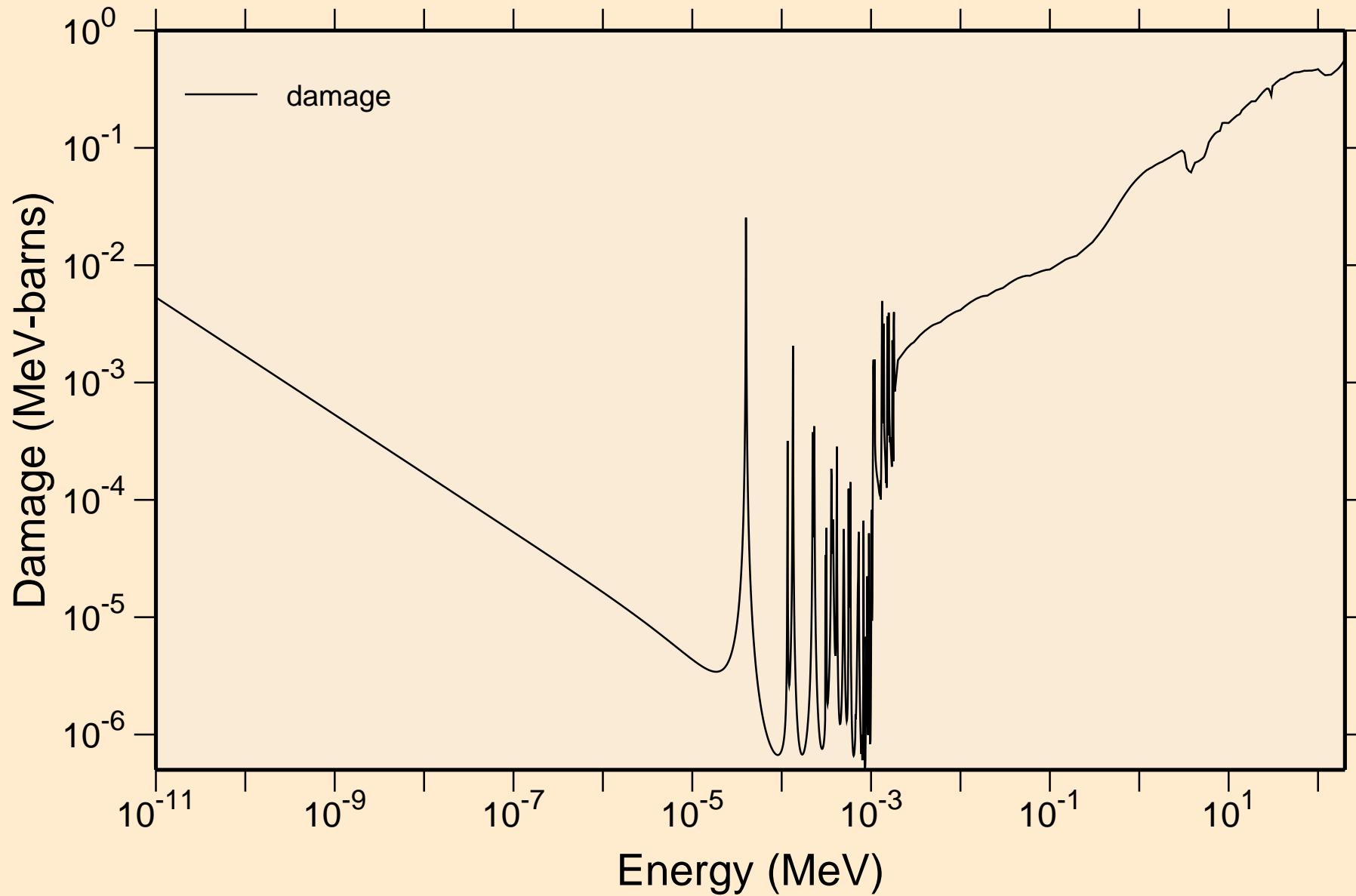
# SM159 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

## Heating

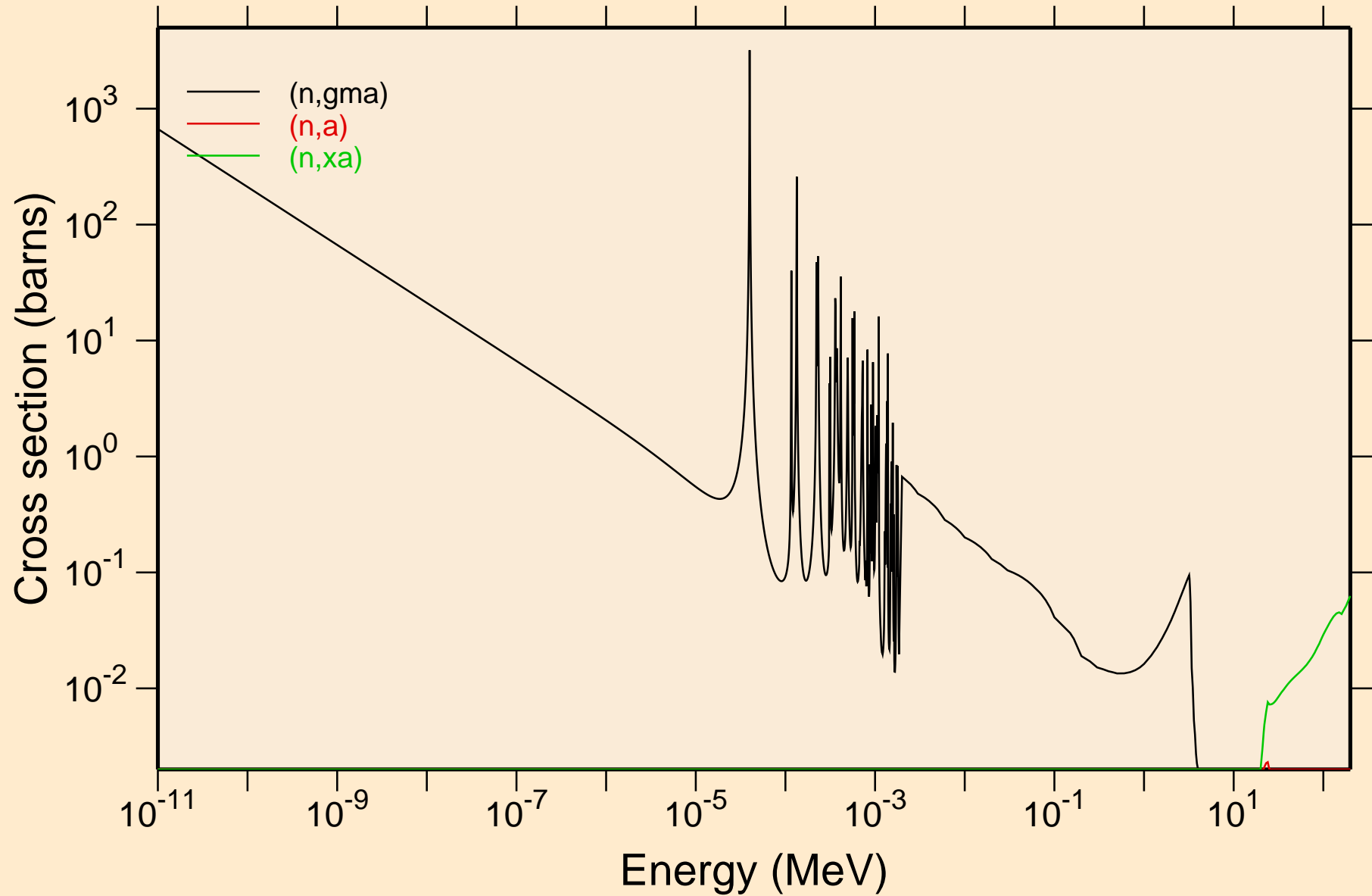


# SM159 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

## Damage

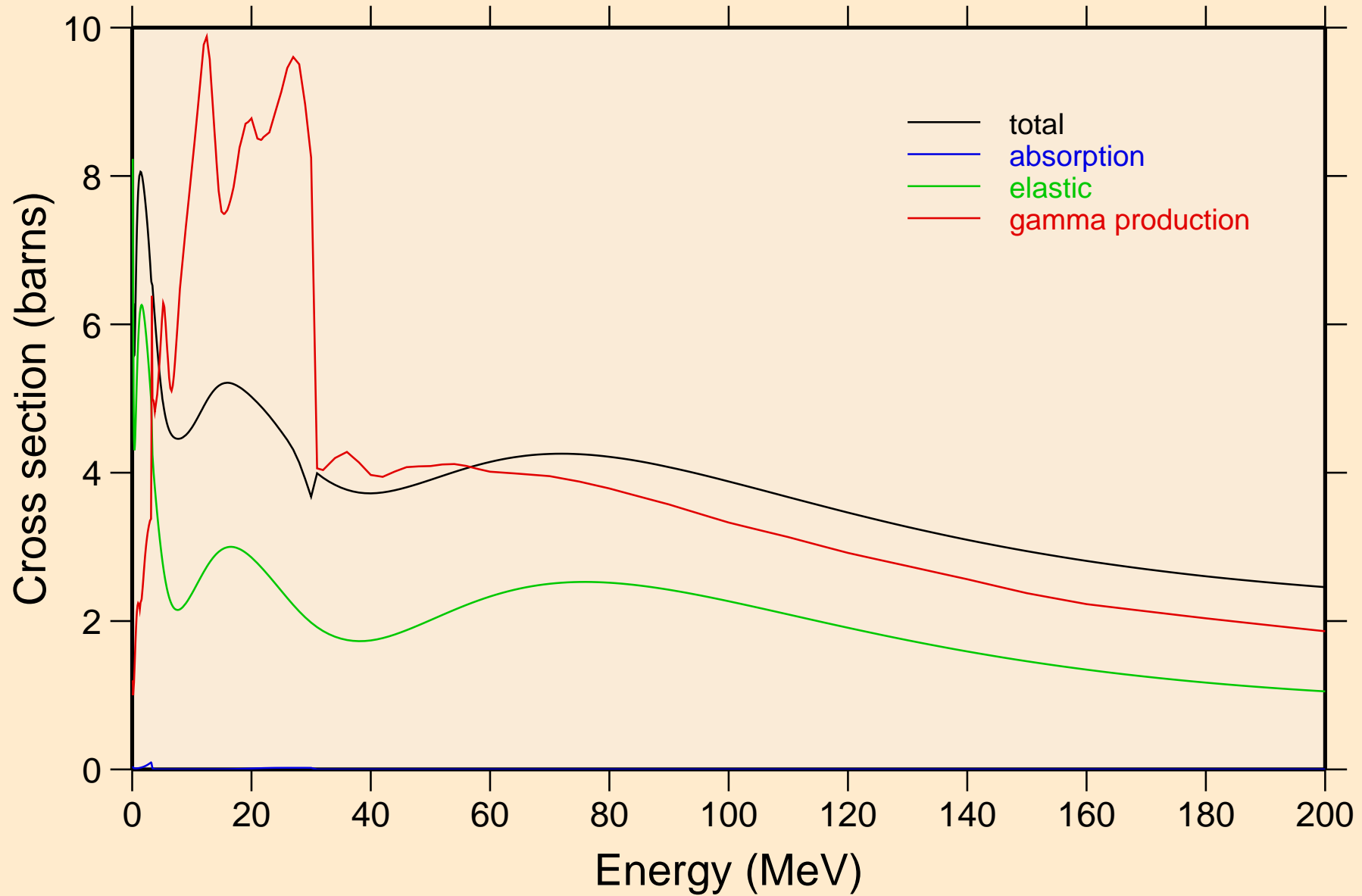


SM159 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Non-threshold reactions



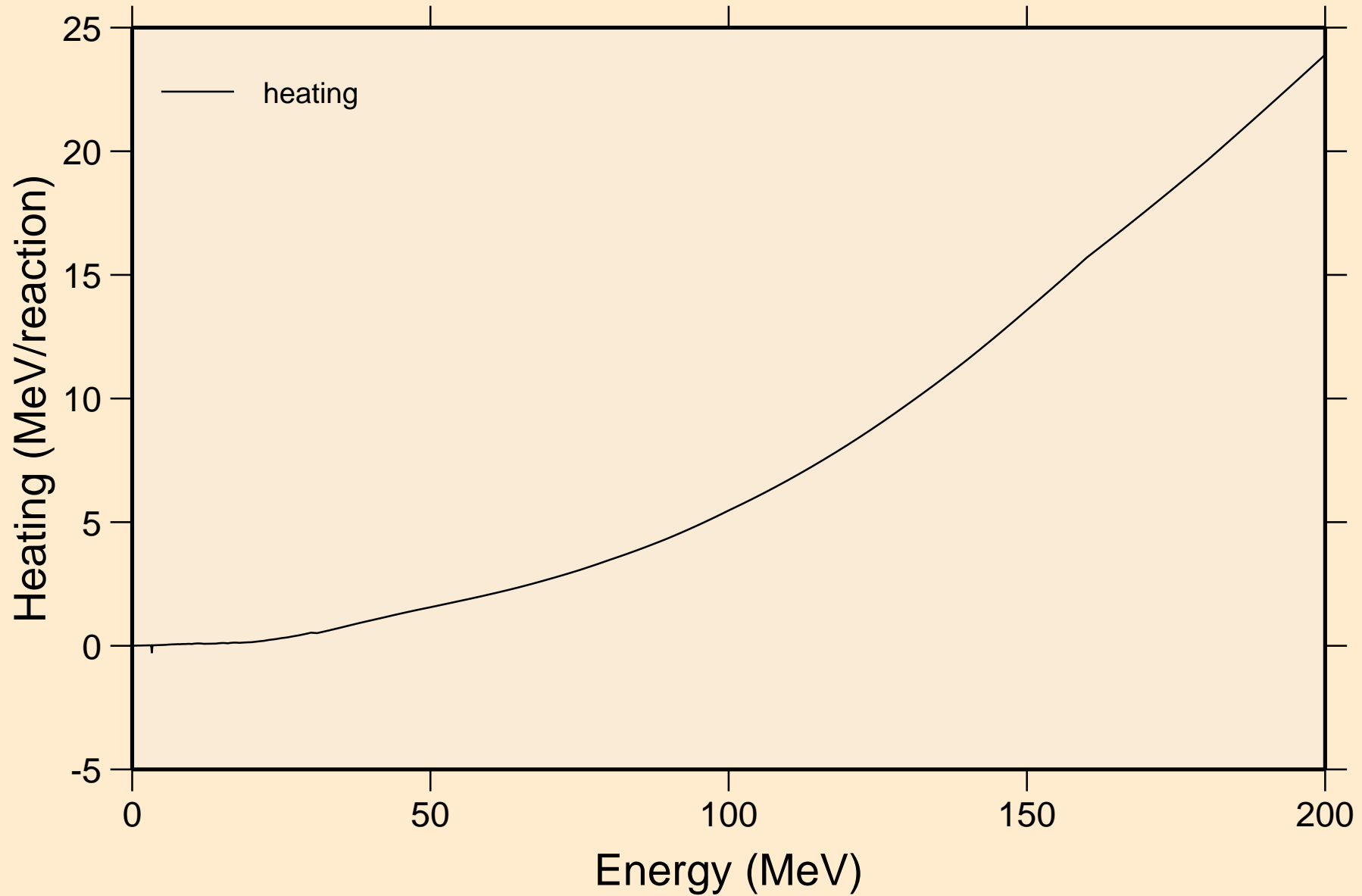
# SM159 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

## Principal cross sections



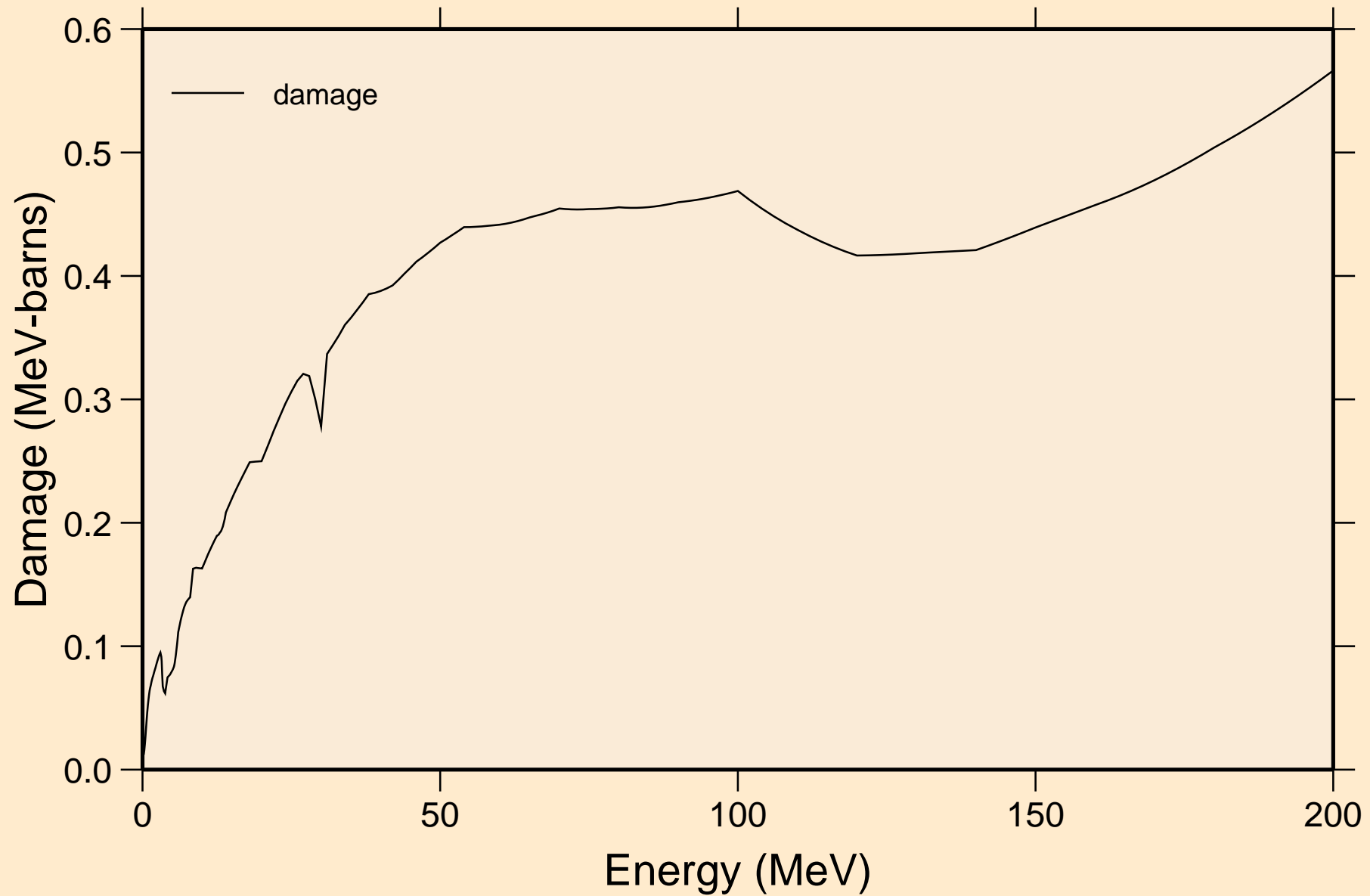
# SM159 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

## Heating

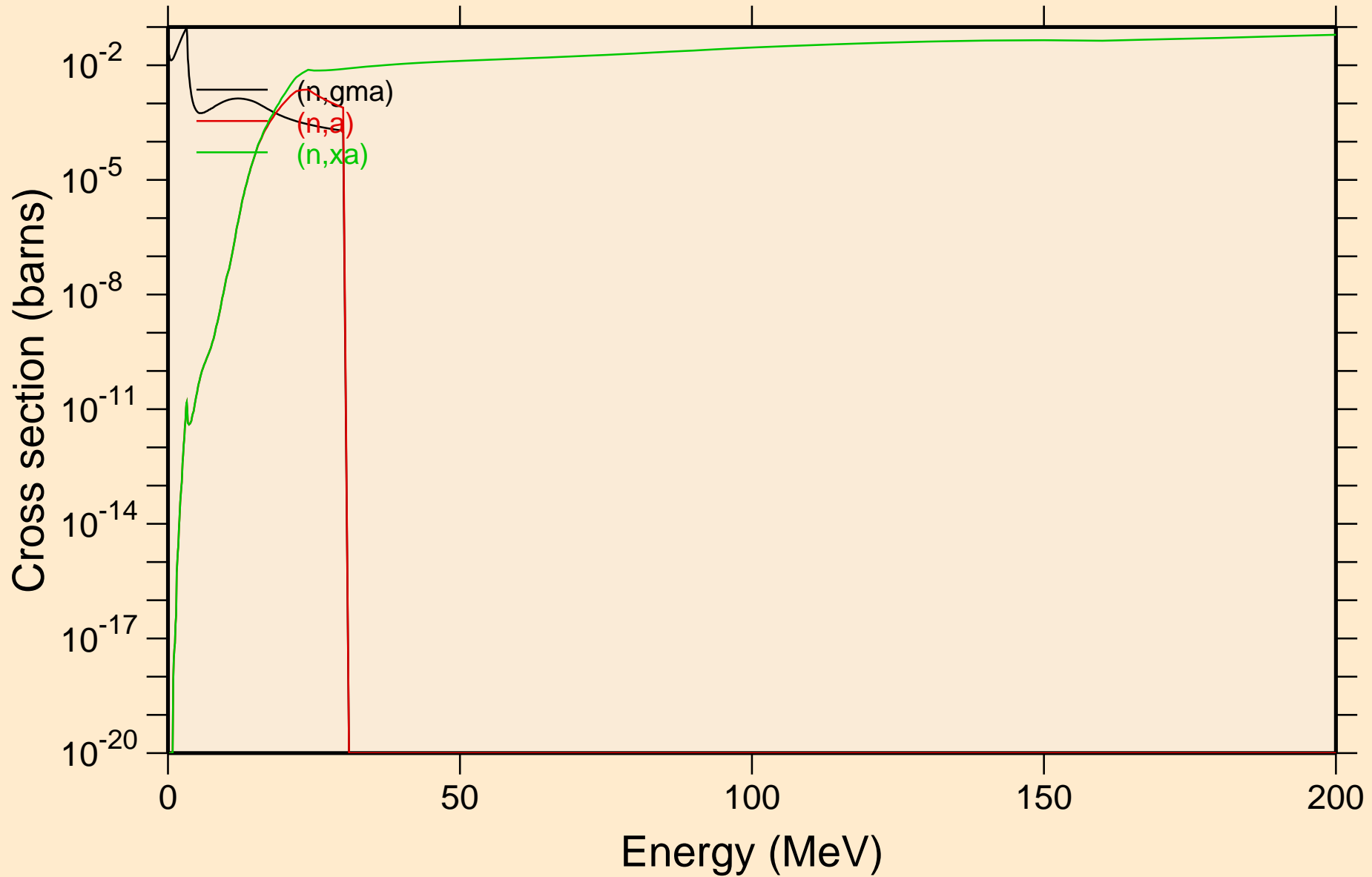


# SM159 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

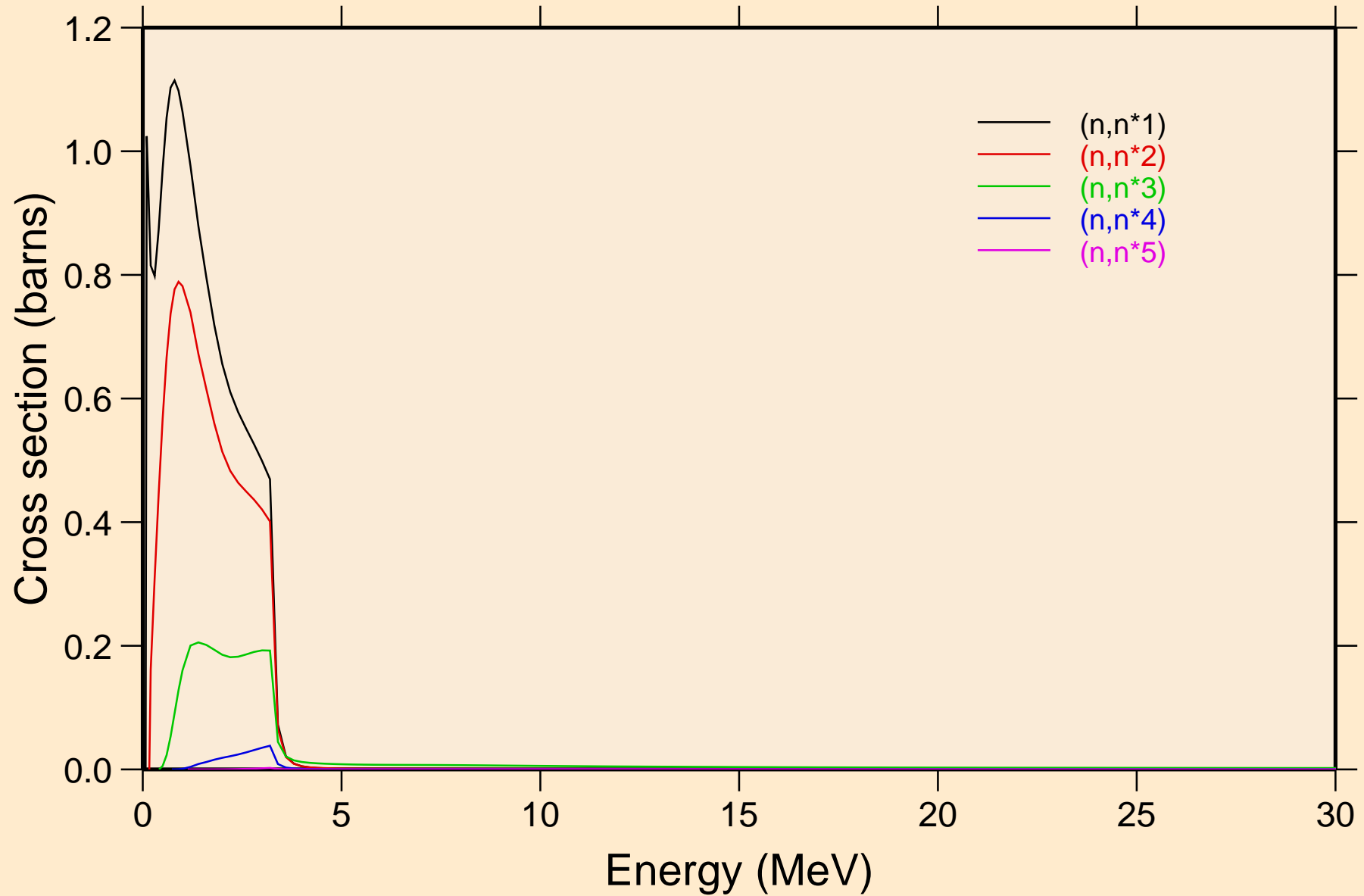
## Damage



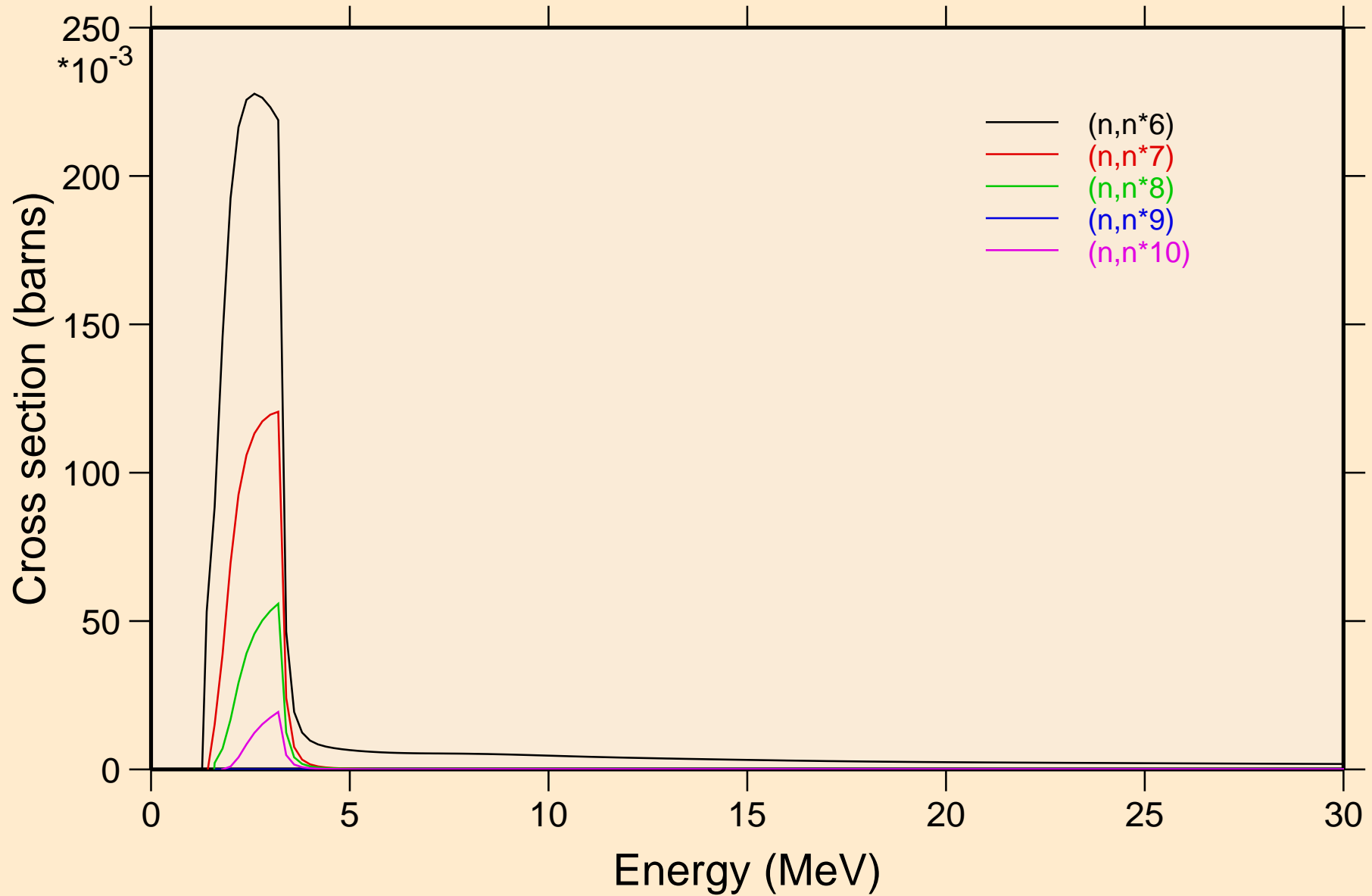
SM159 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Non-threshold reactions



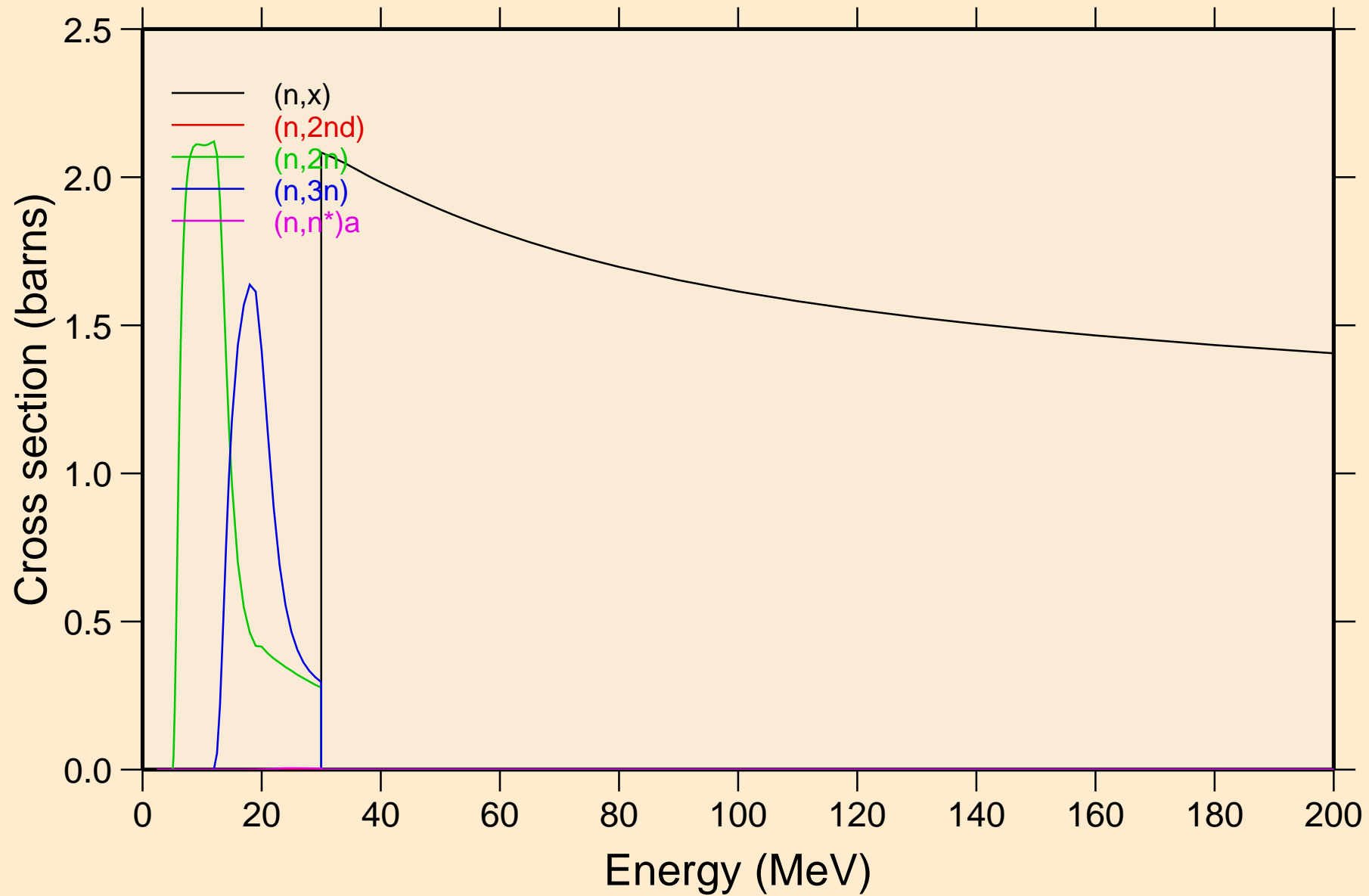
SM159 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Inelastic levels



SM159 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Inelastic levels

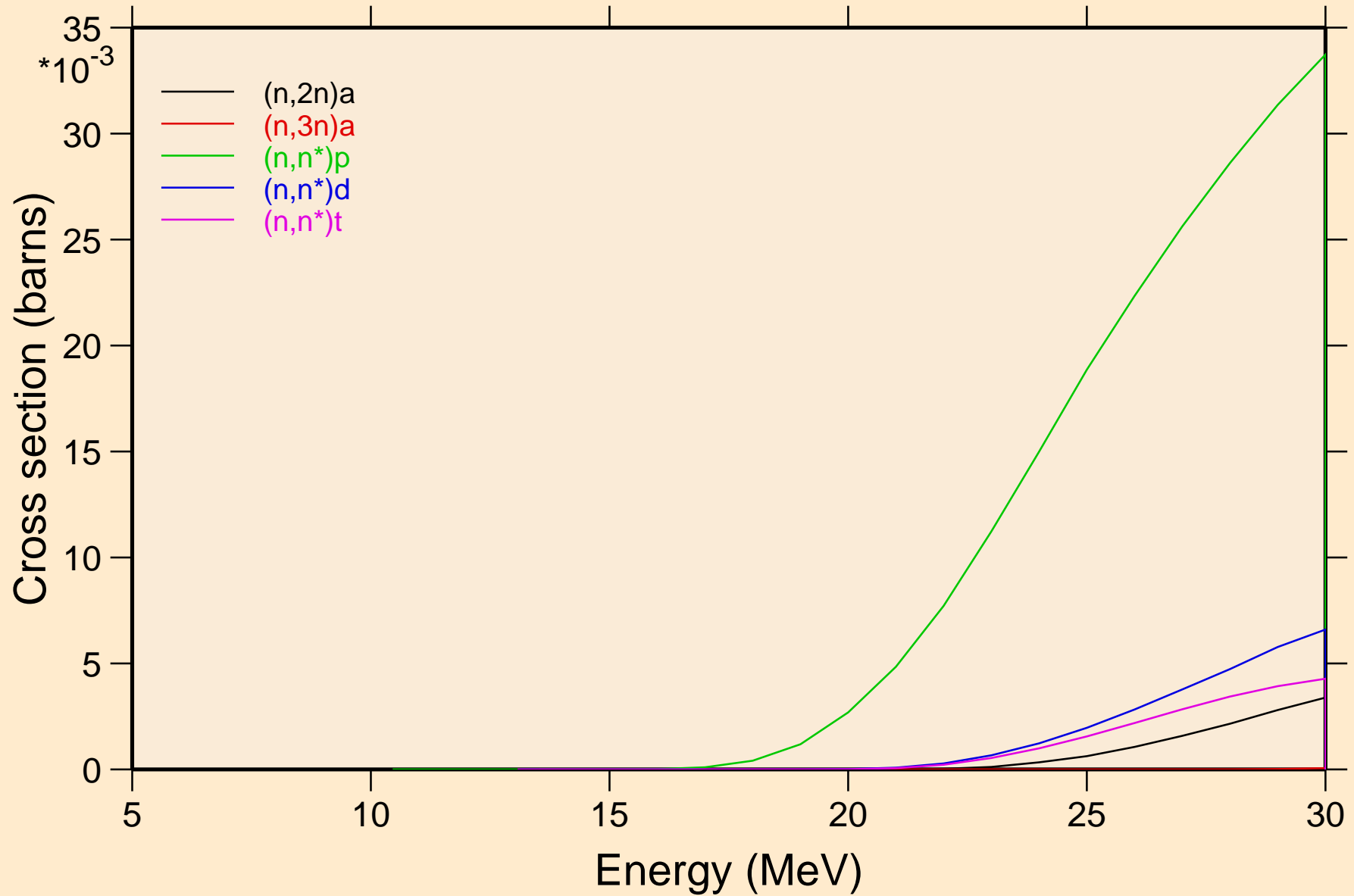


SM159 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Threshold reactions



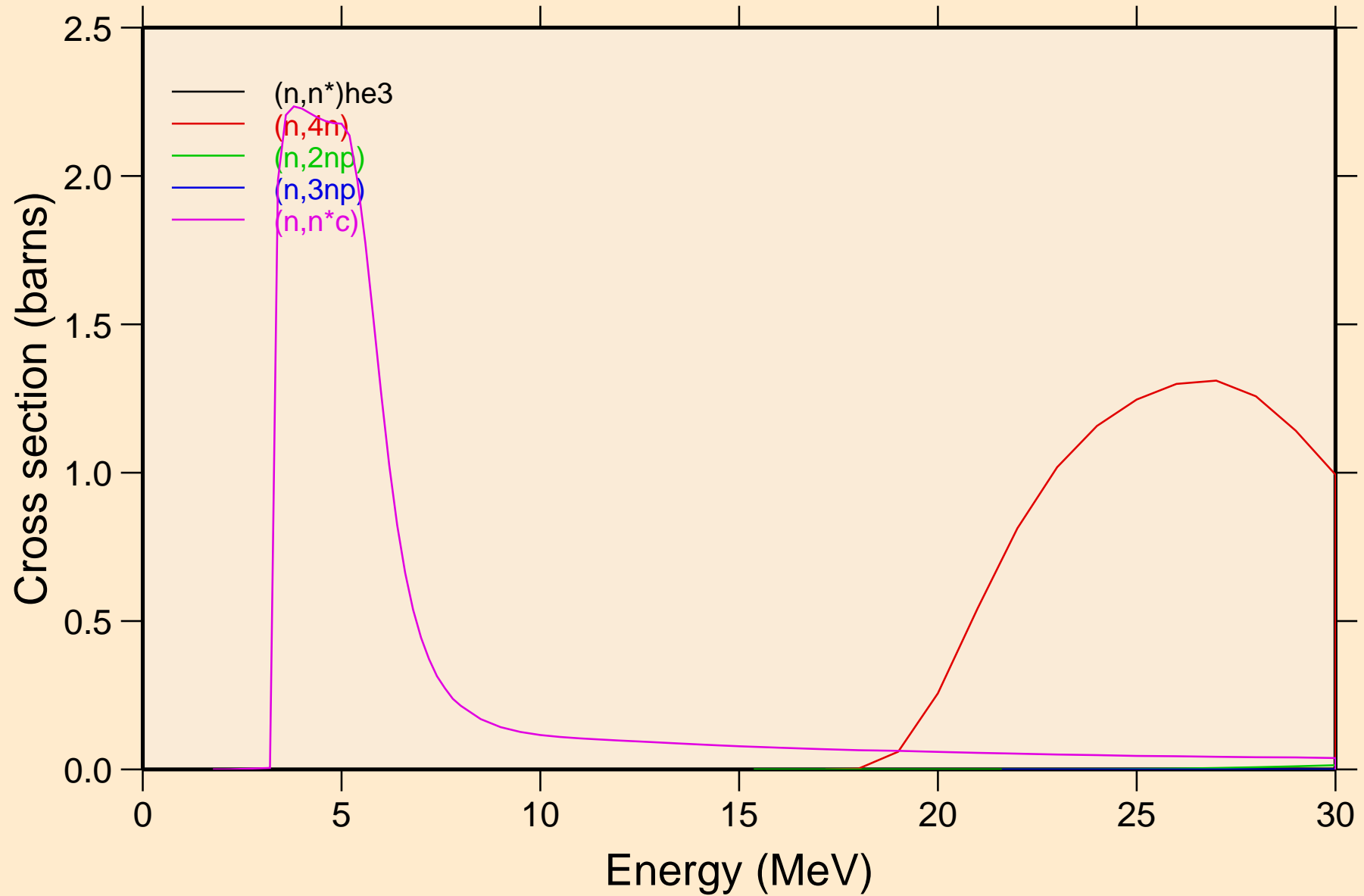
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## Threshold reactions



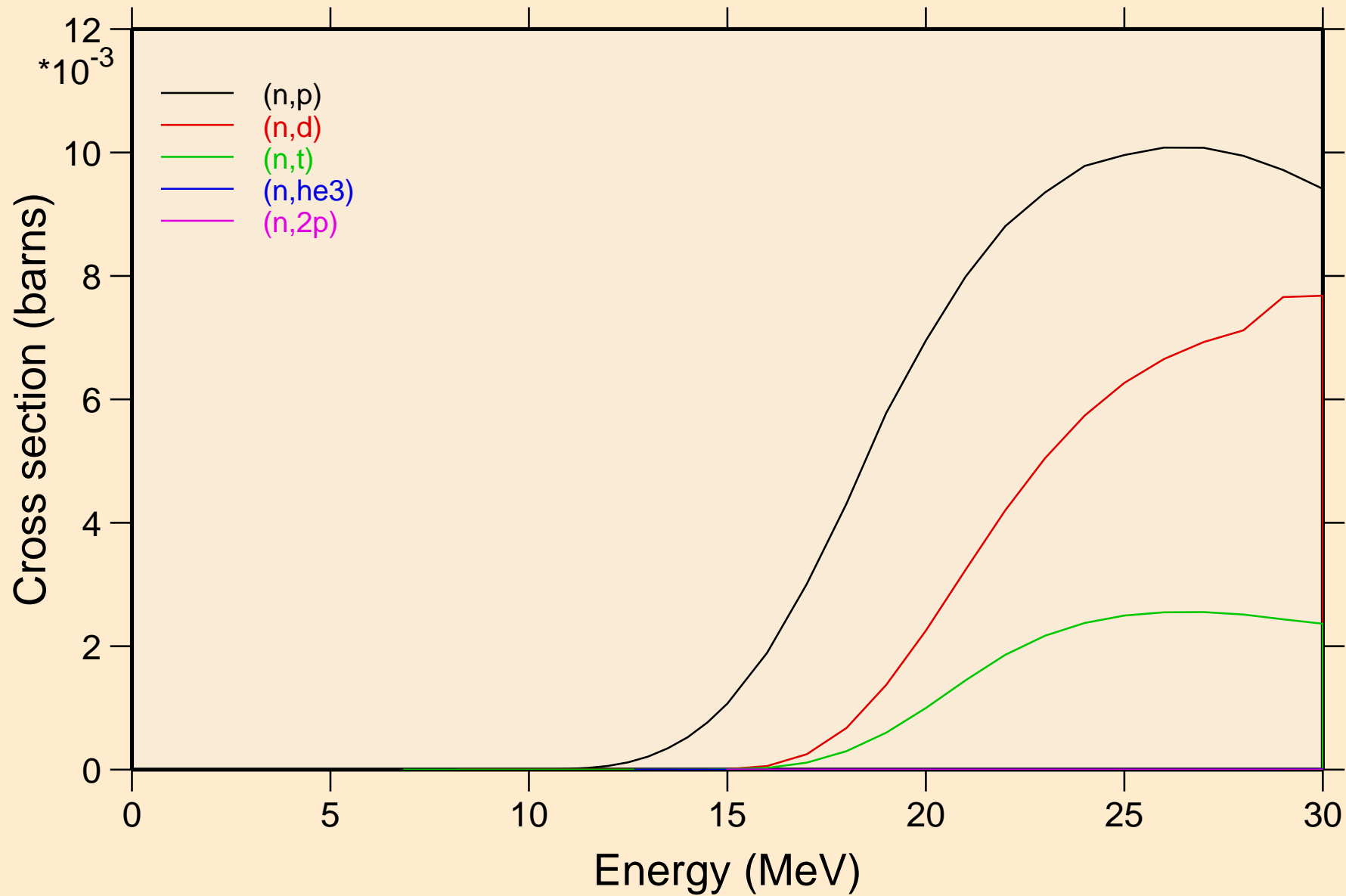
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## Threshold reactions

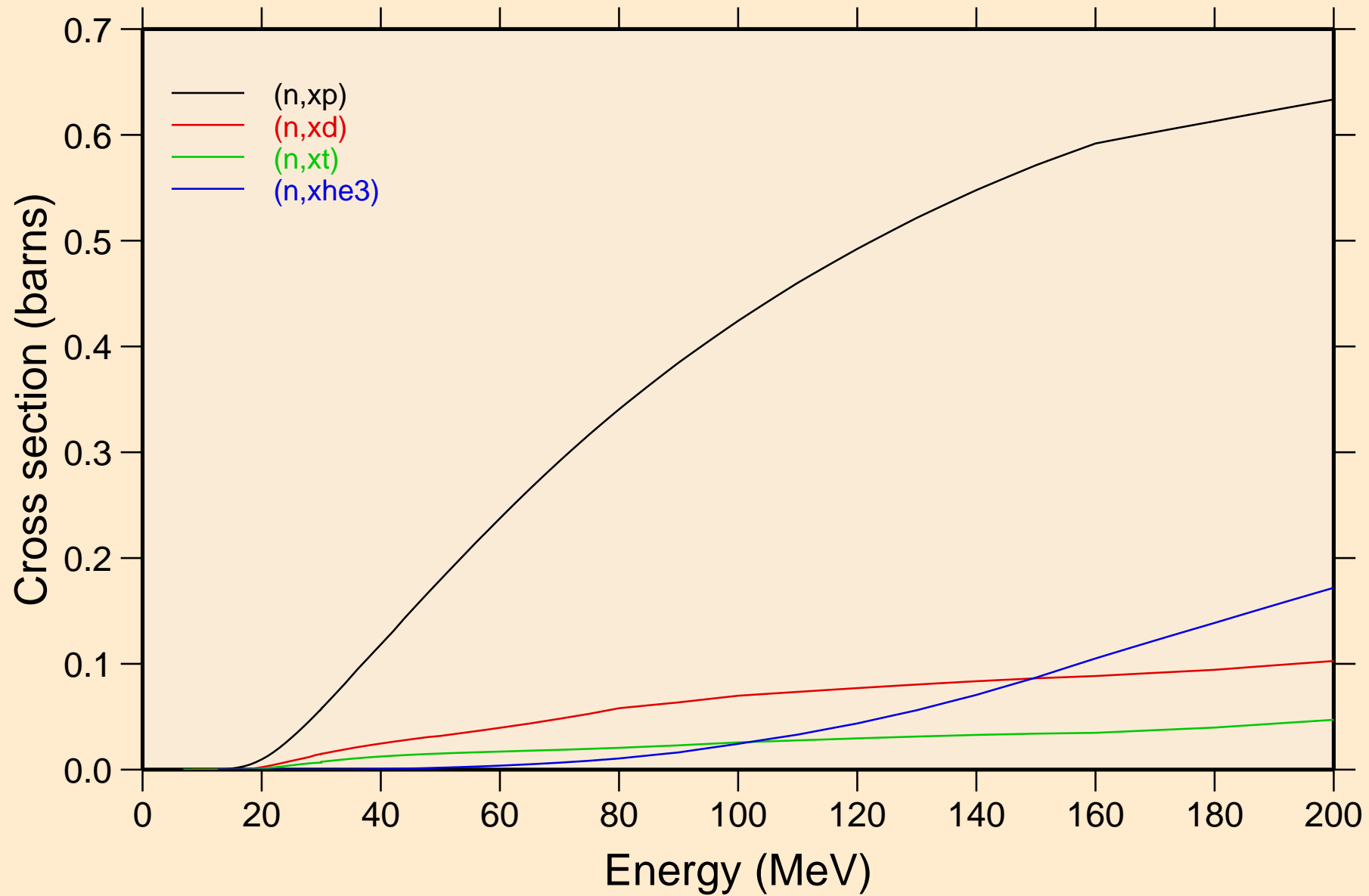


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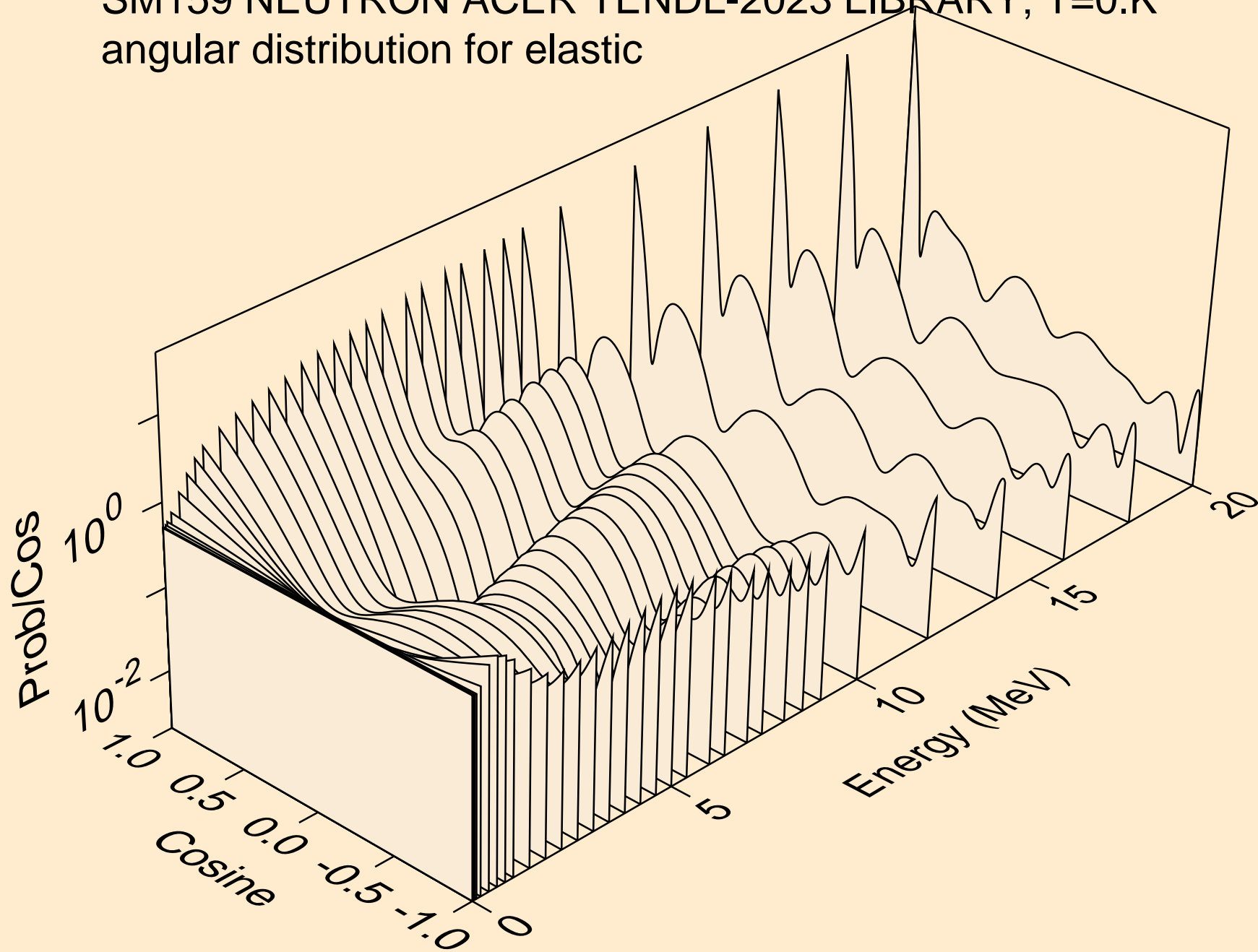
## Threshold reactions



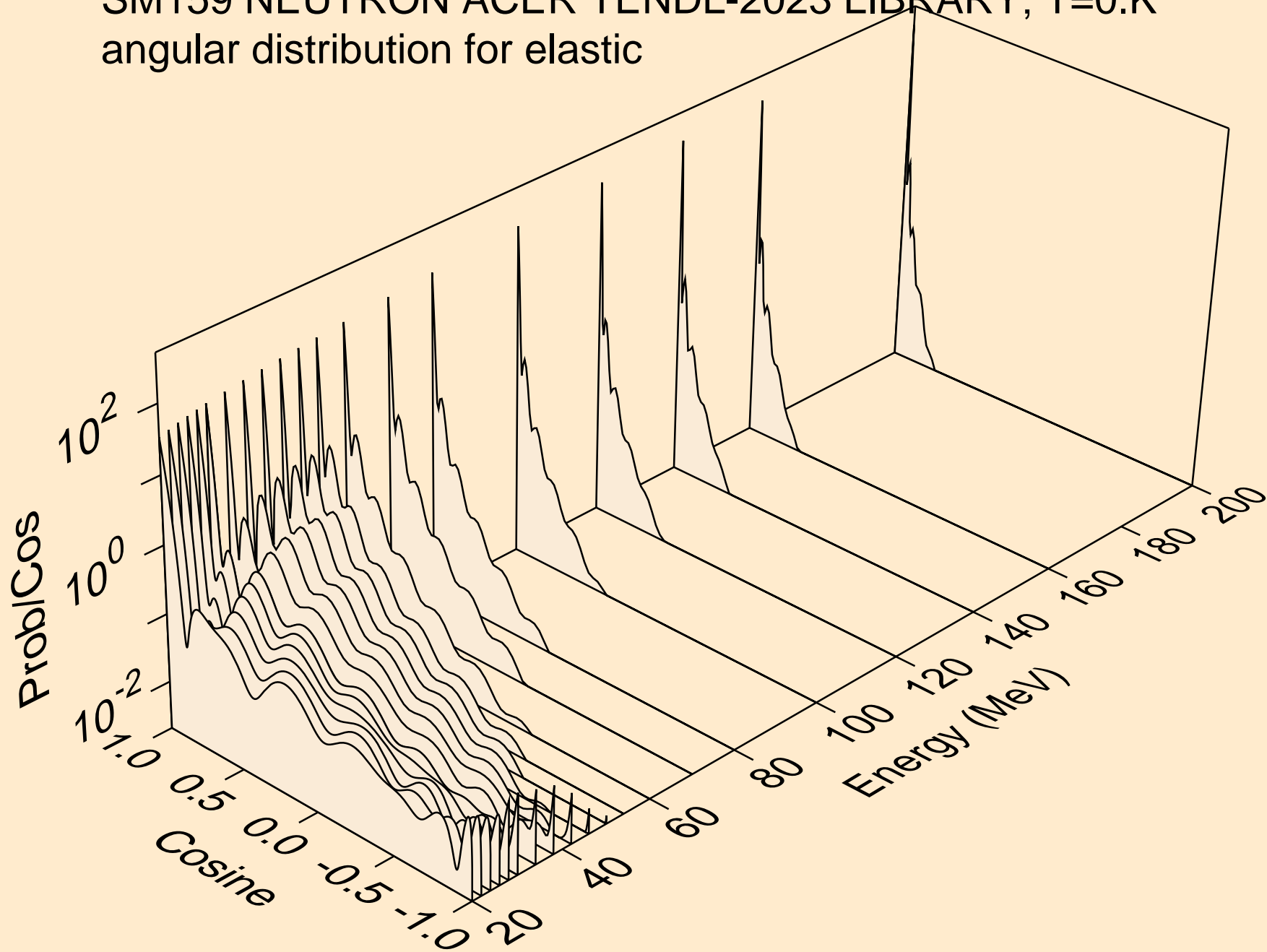
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Threshold reactions



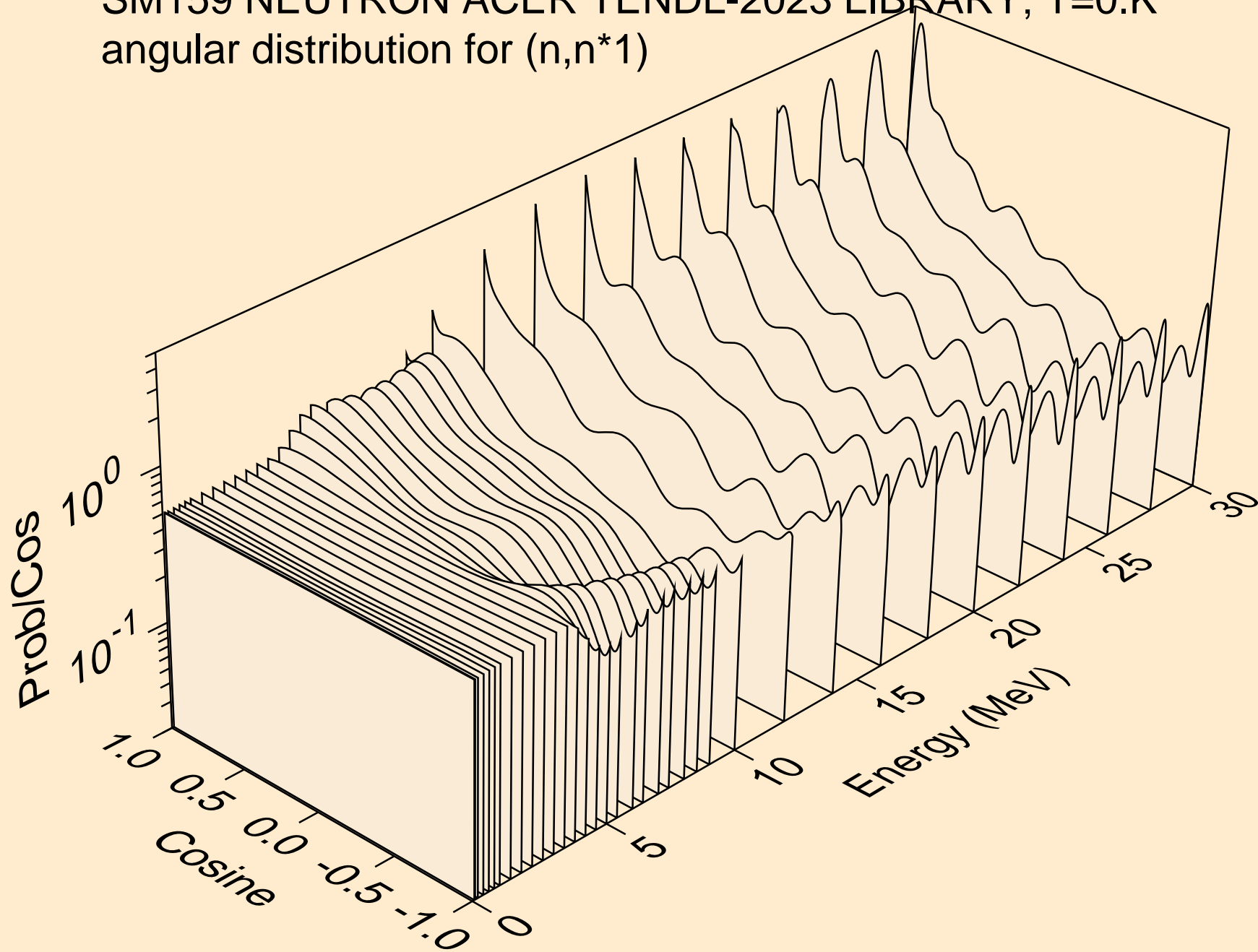
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angular distribution for elastic



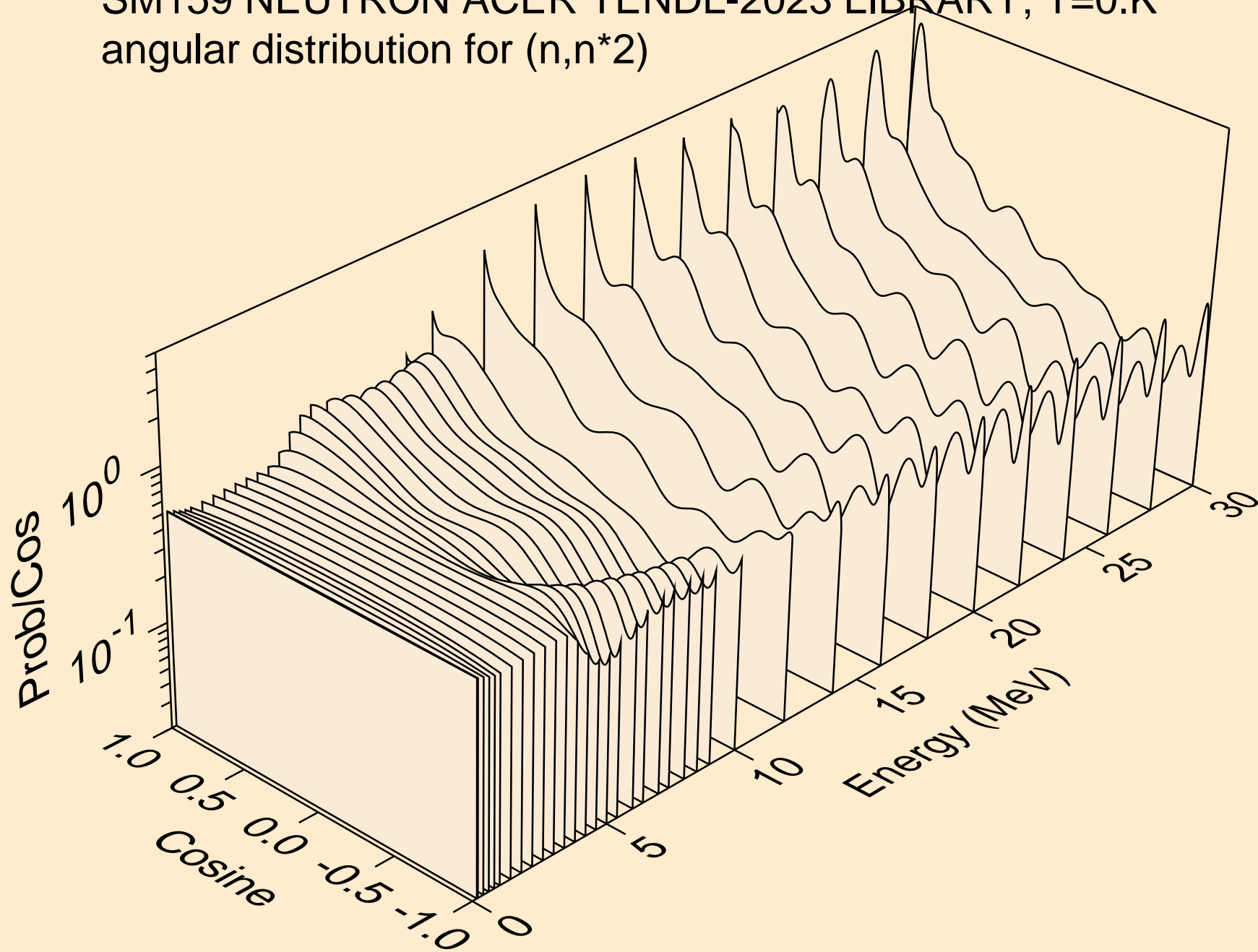
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angular distribution for elastic



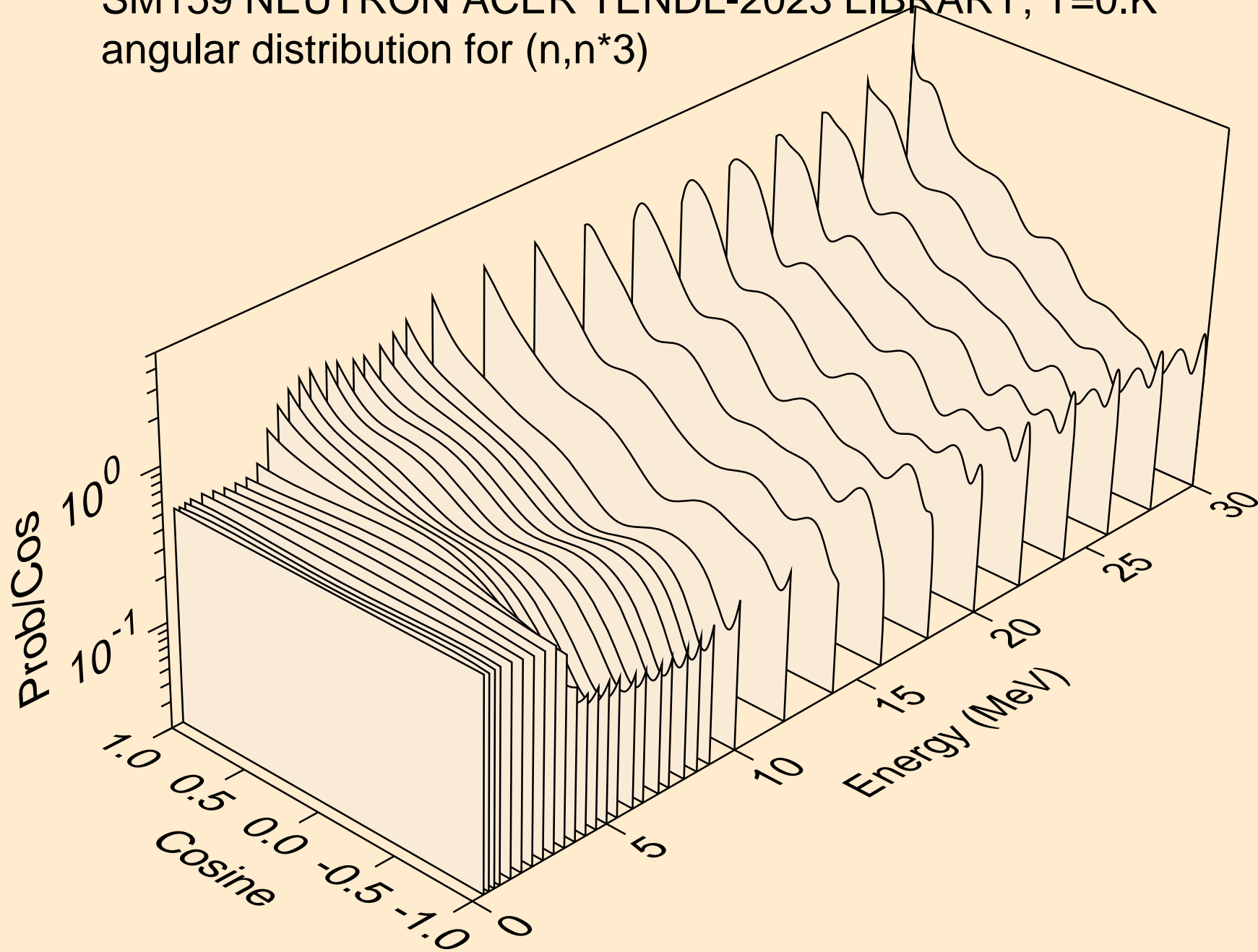
SM159 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*1)



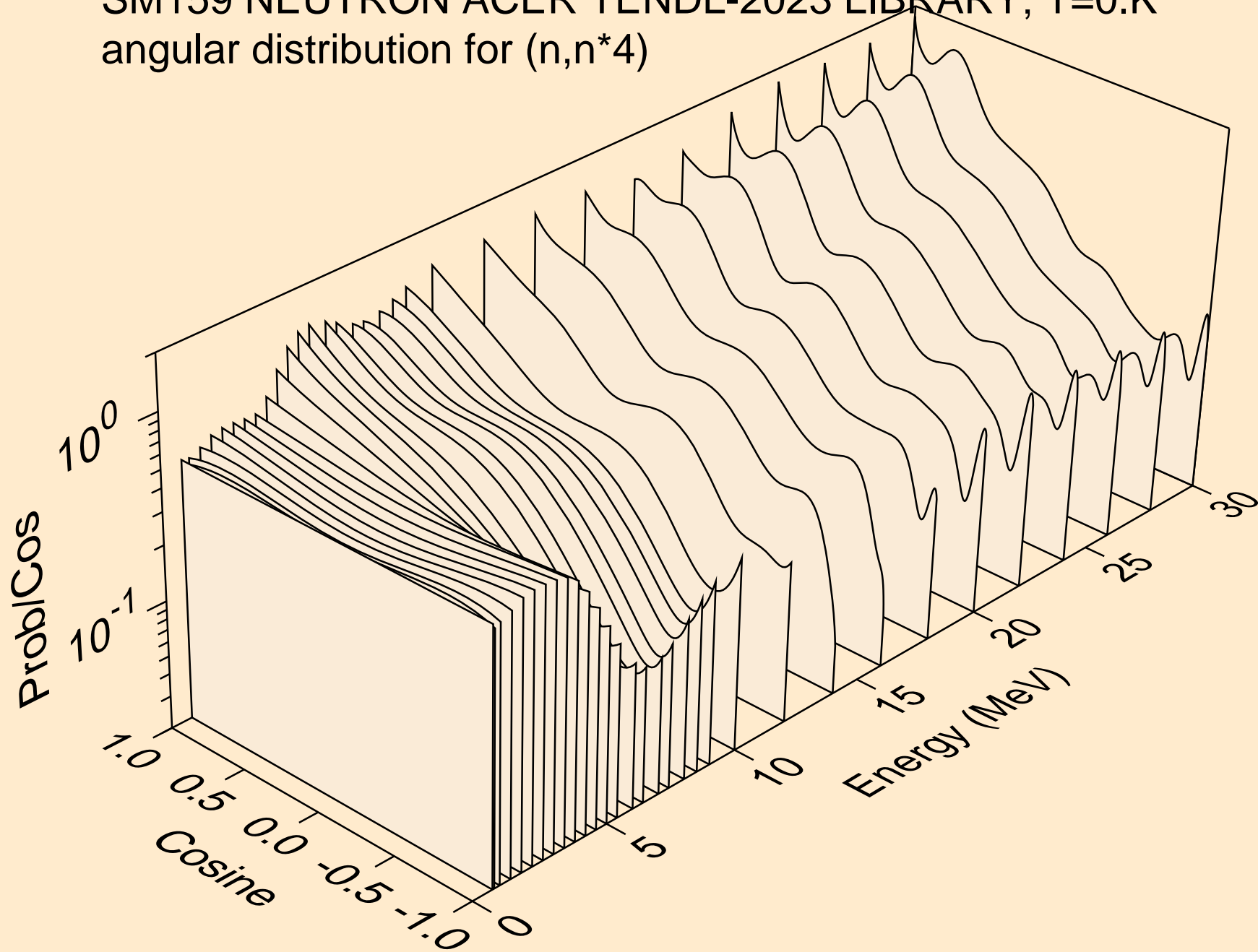
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angular distribution for (n,n\*2)



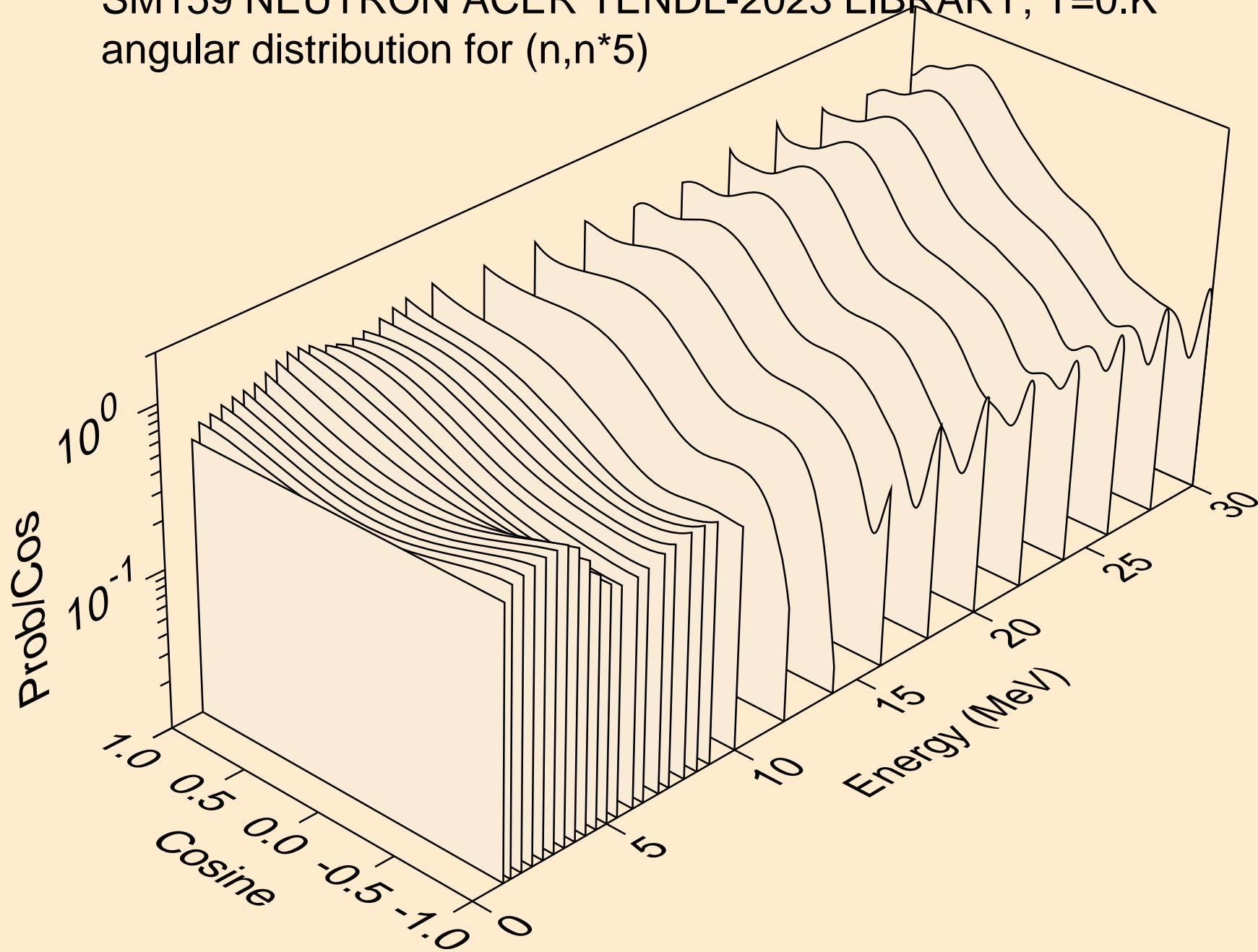
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angular distribution for (n,n\*3)



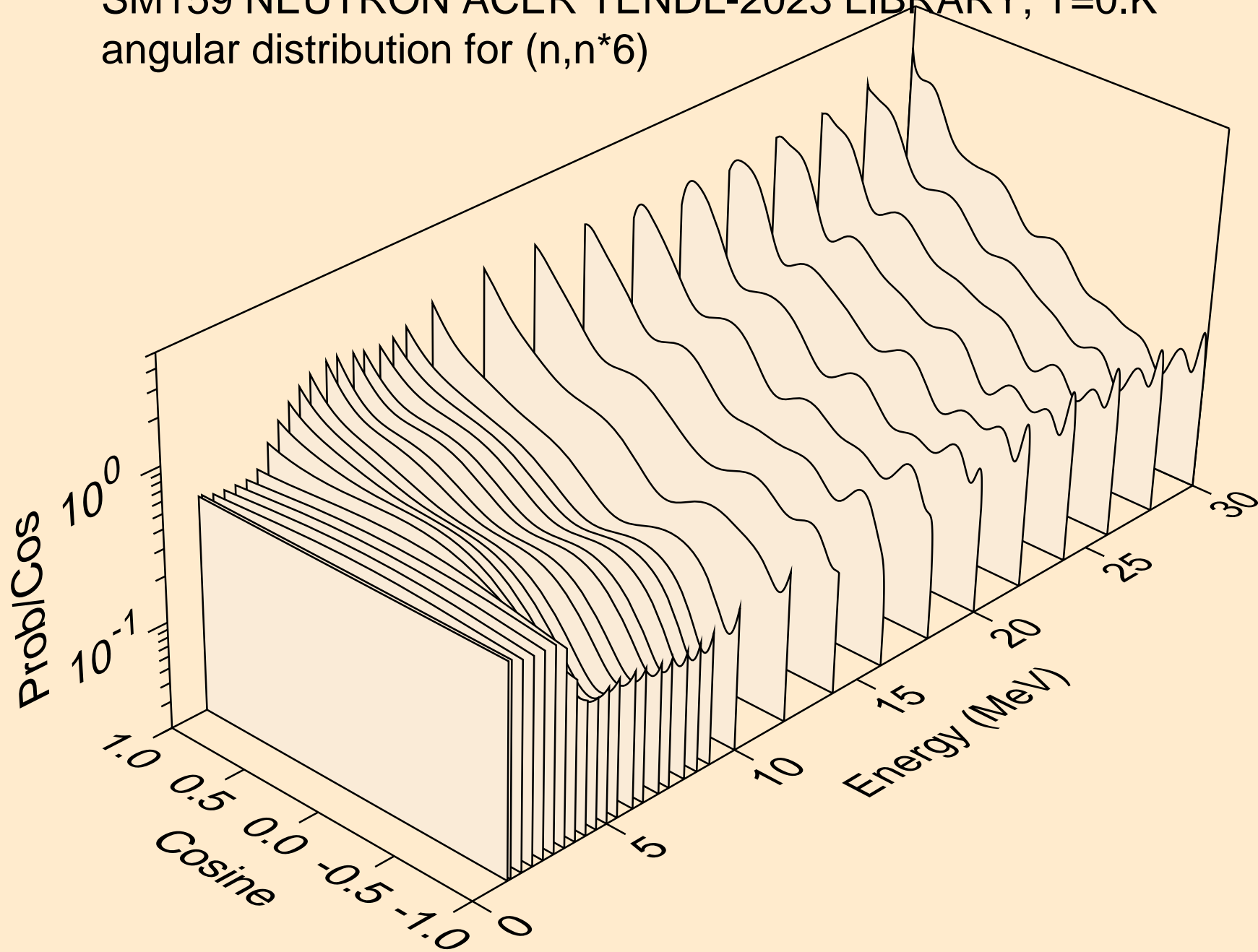
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angular distribution for (n,n\*4)



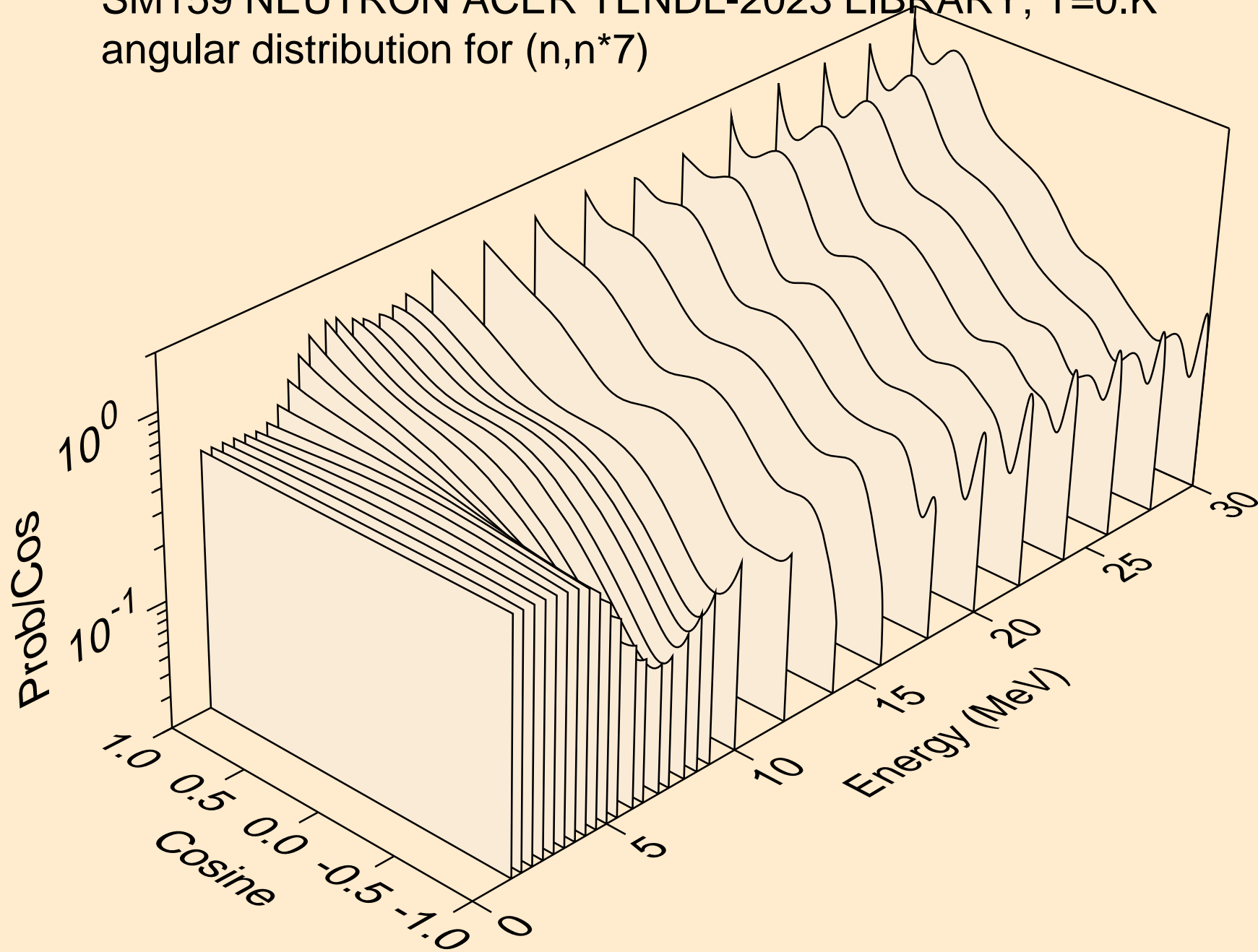
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angular distribution for (n,n\*5)



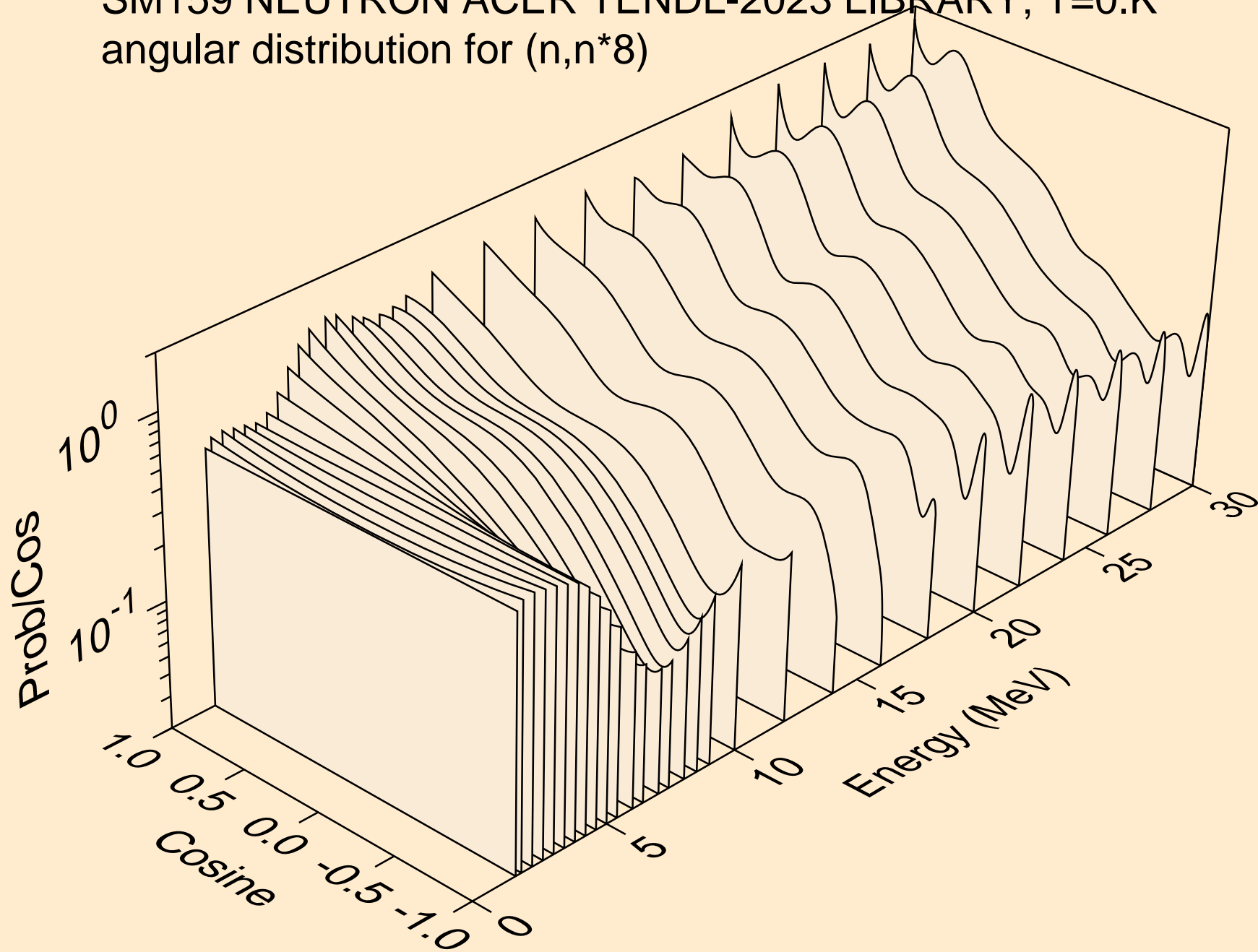
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angular distribution for (n,n\*6)



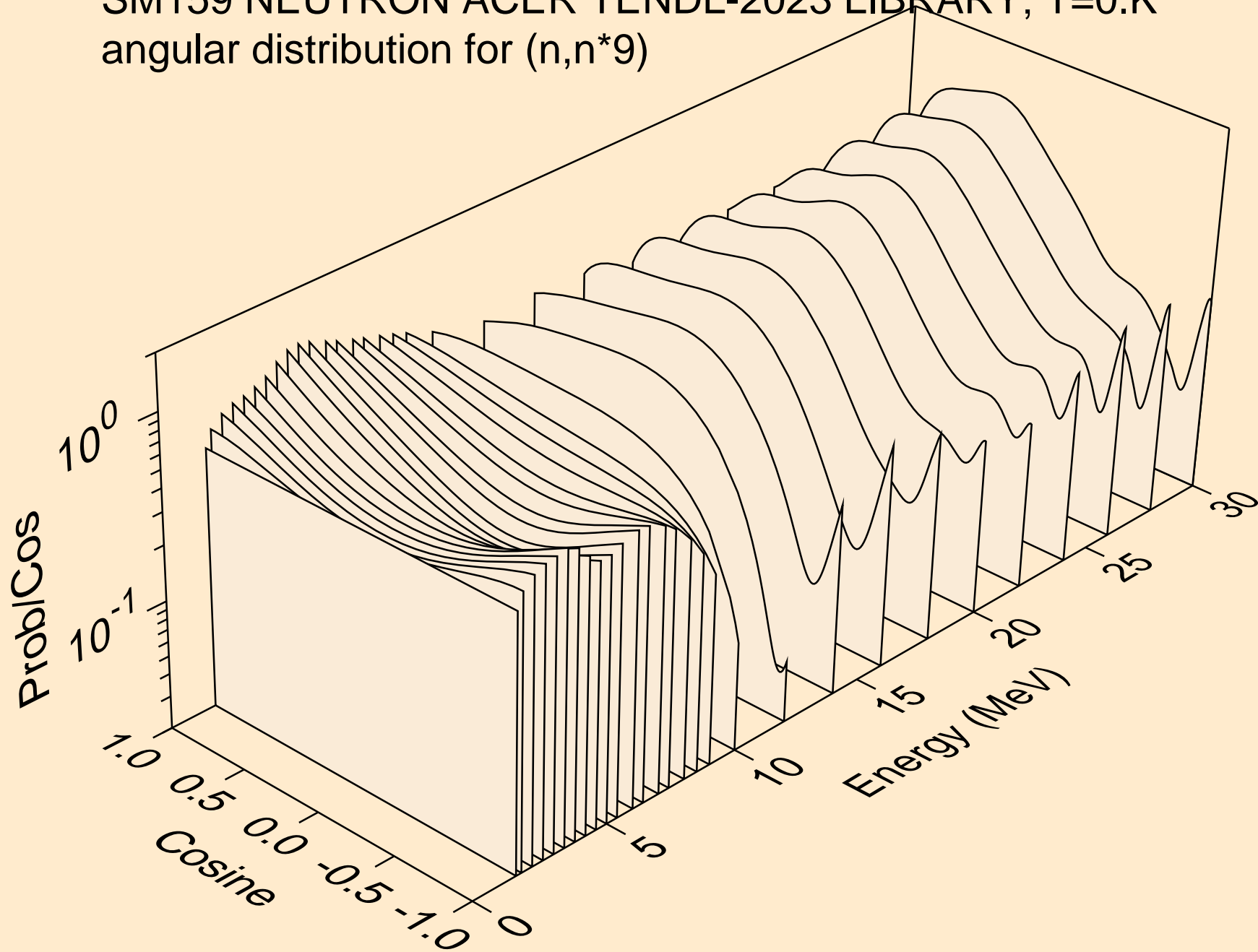
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angular distribution for (n,n\*7)



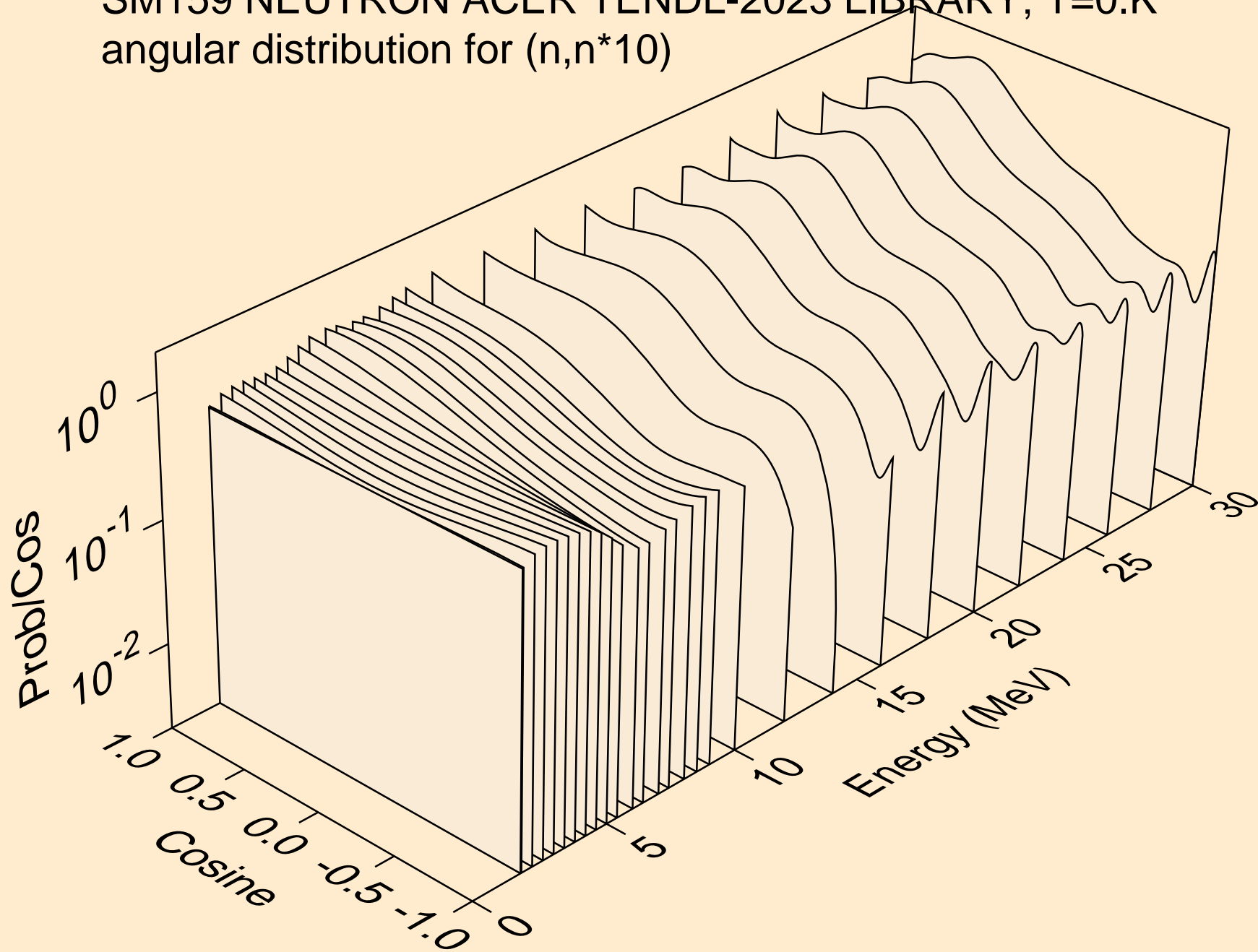
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angular distribution for (n,n\*8)



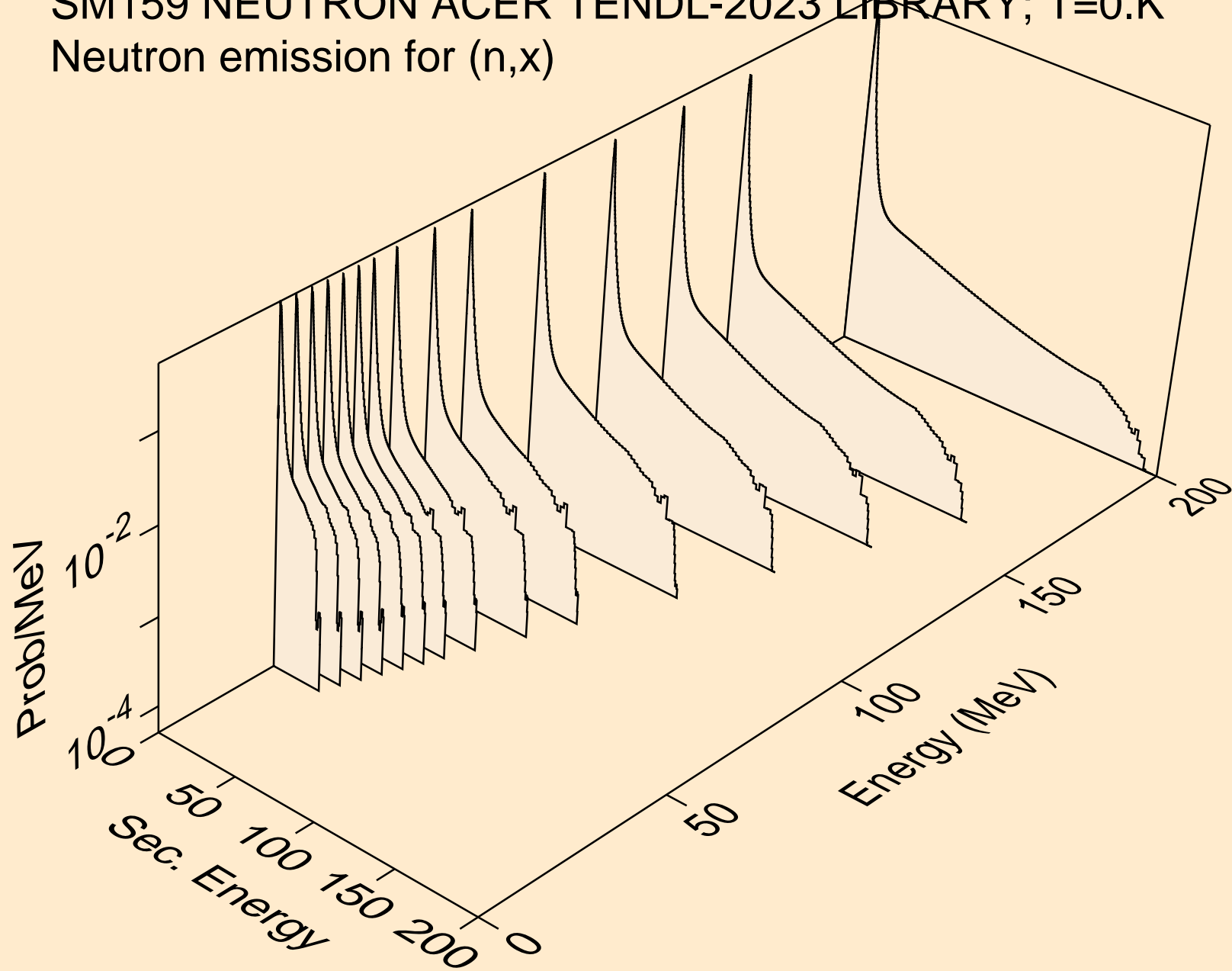
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angular distribution for (n,n\*9)



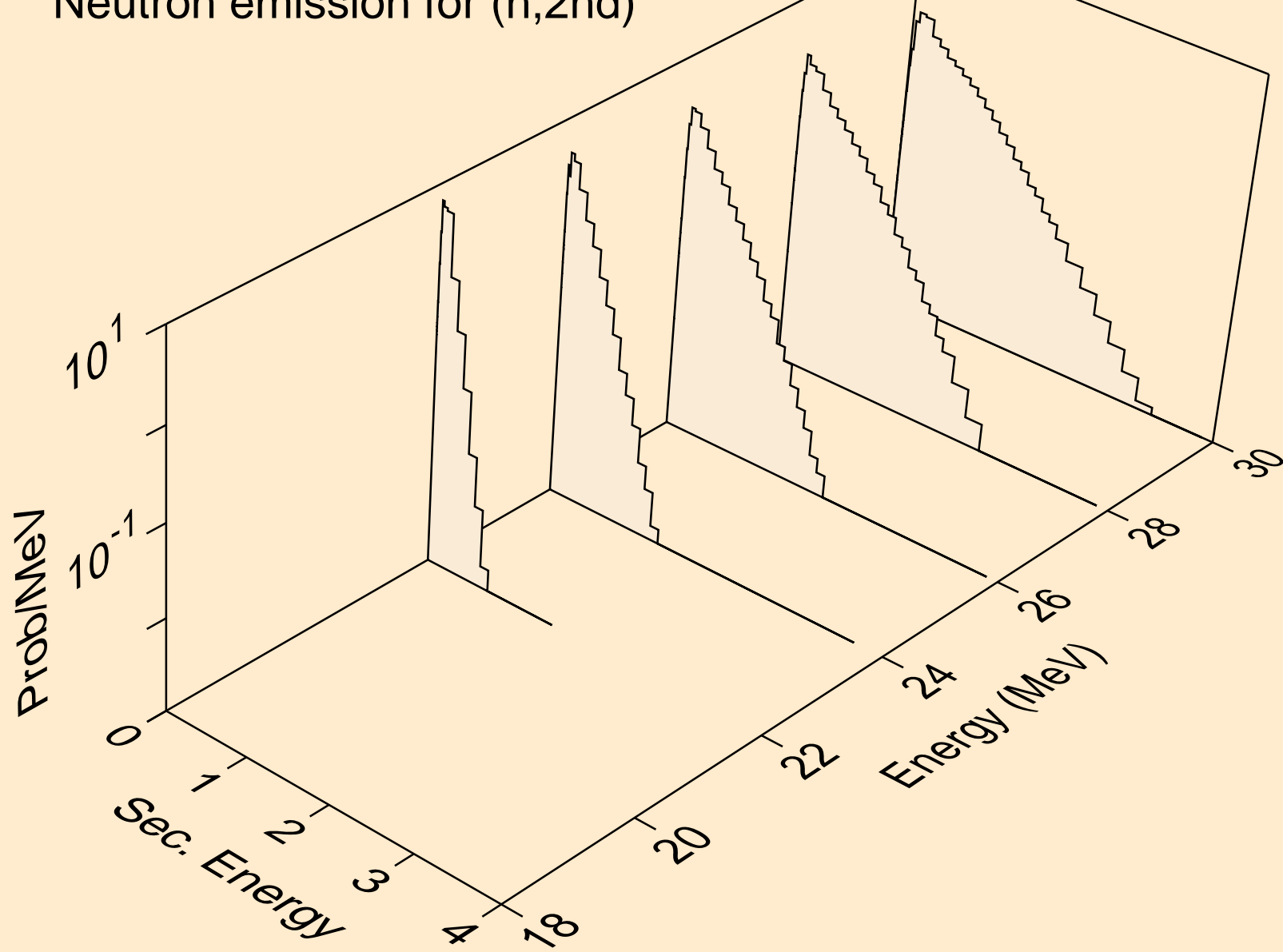
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angular distribution for (n,n\*10)



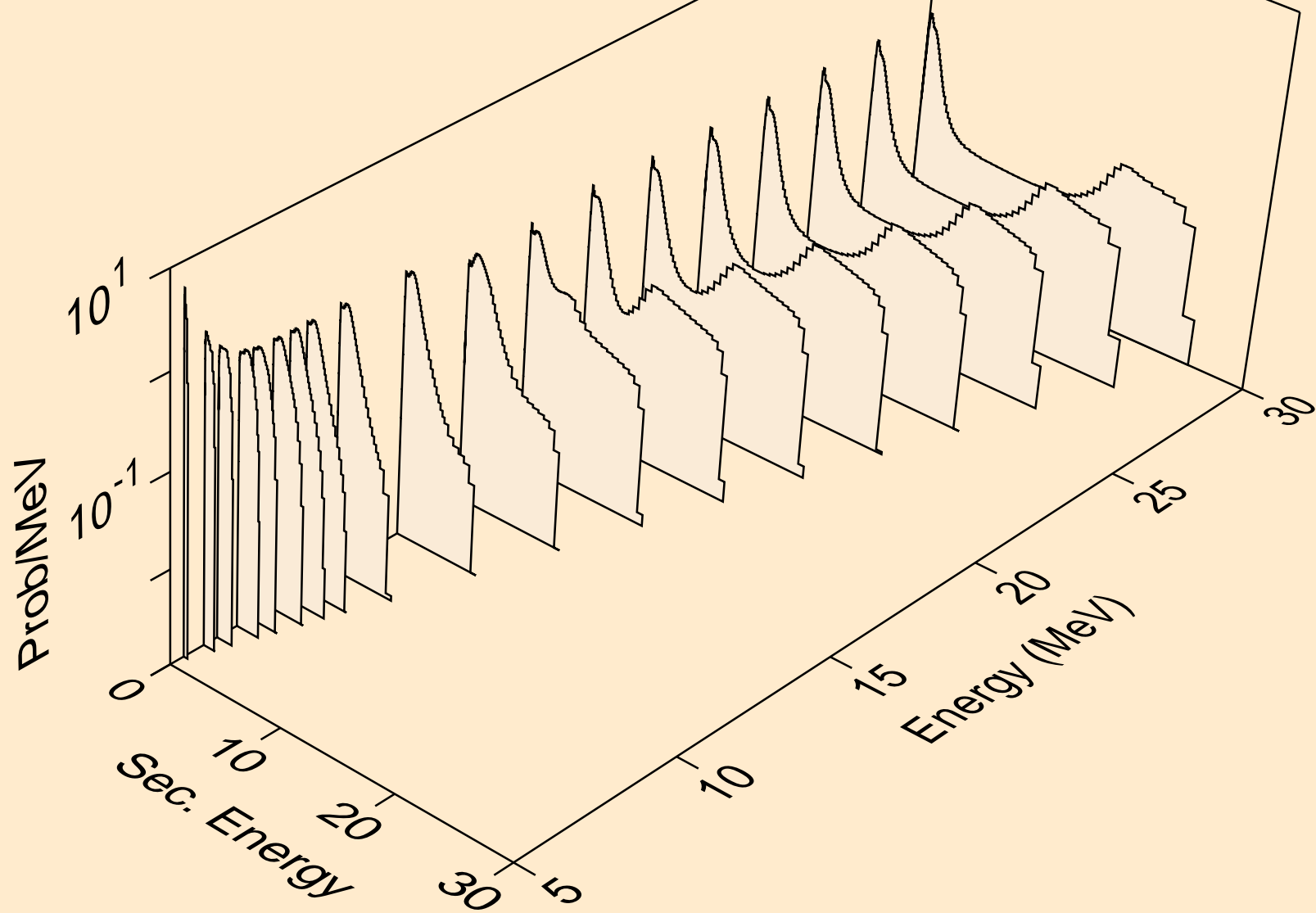
SM159 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,x)



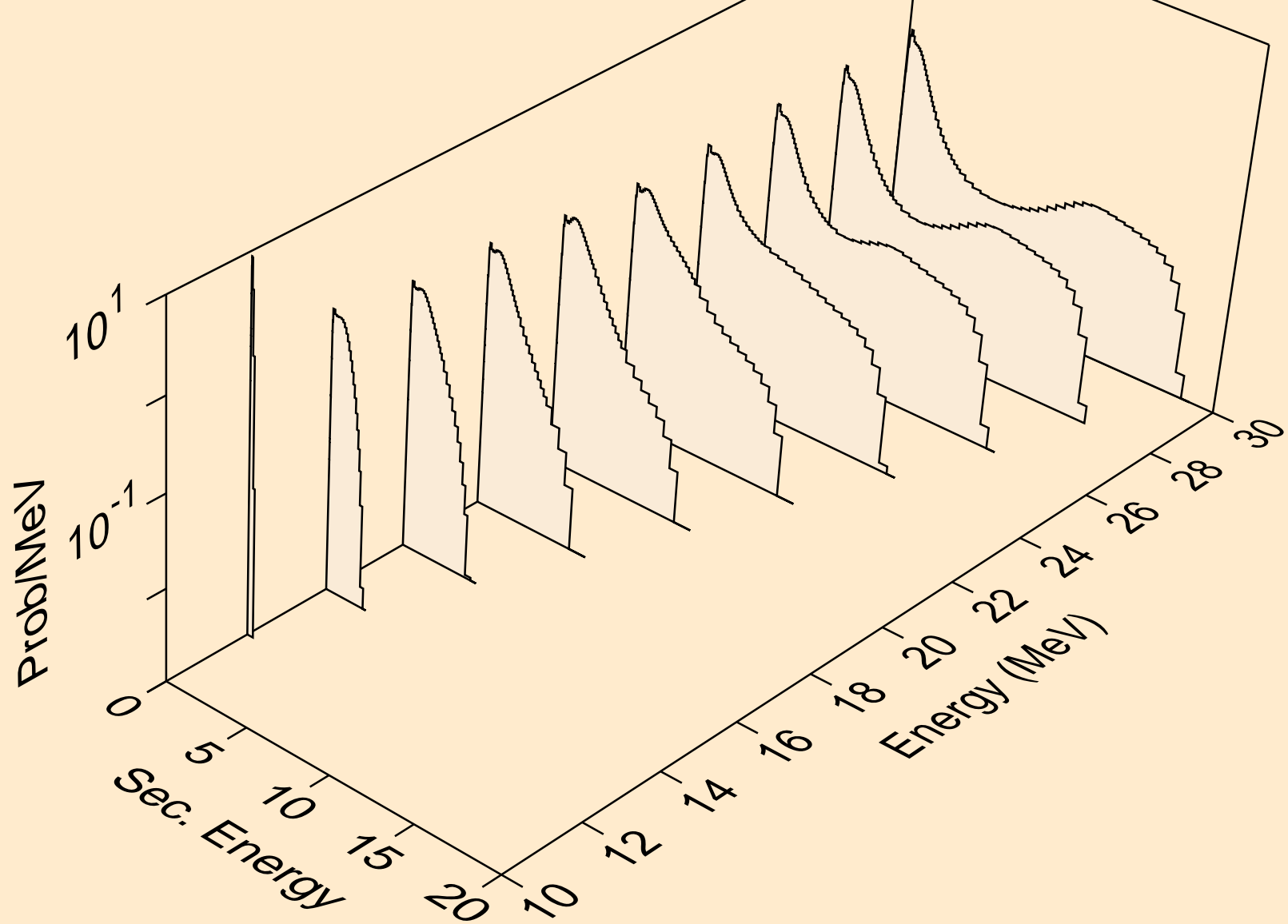
SM159 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,2nd)



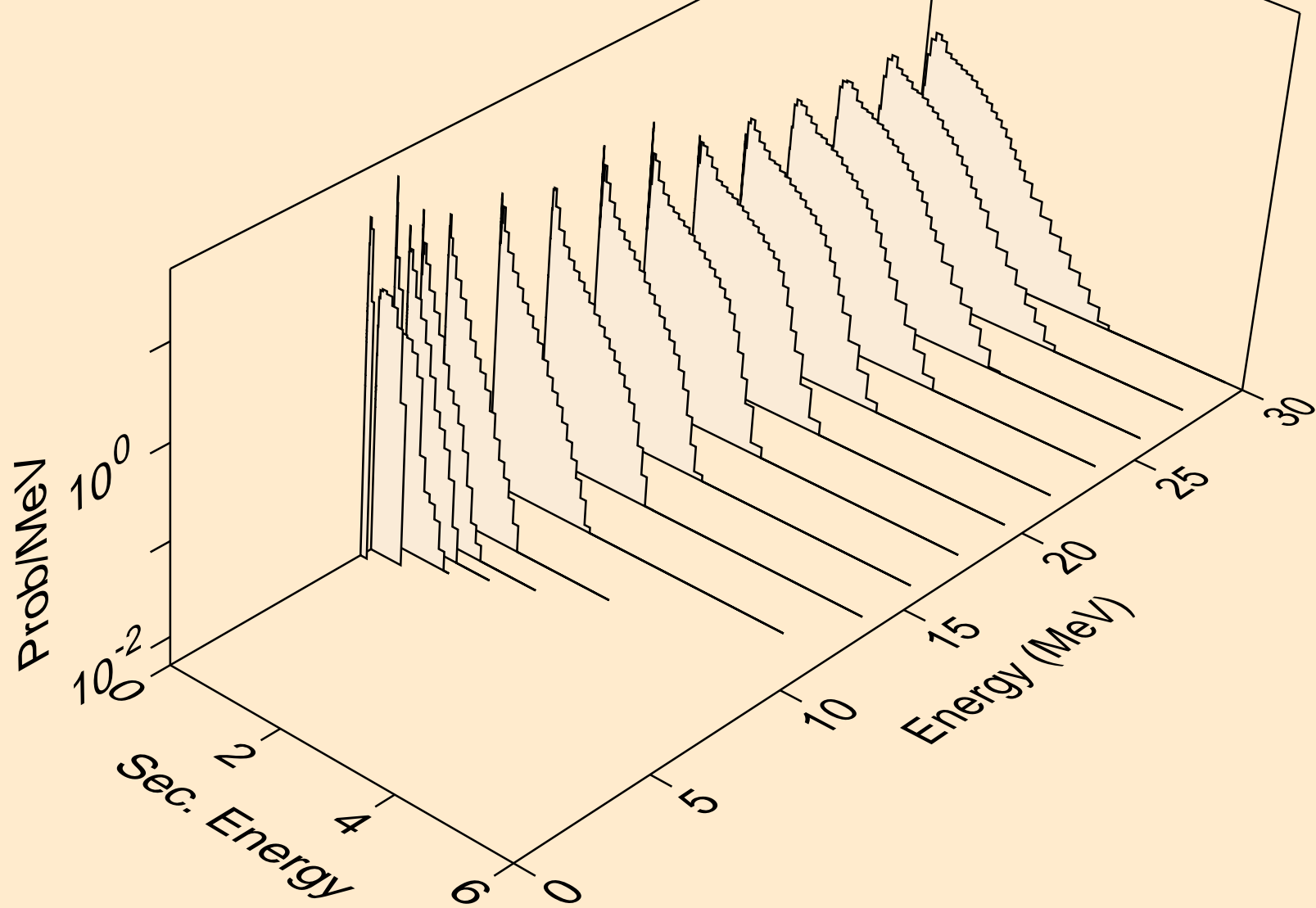
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Neutron emission for (n,2n)



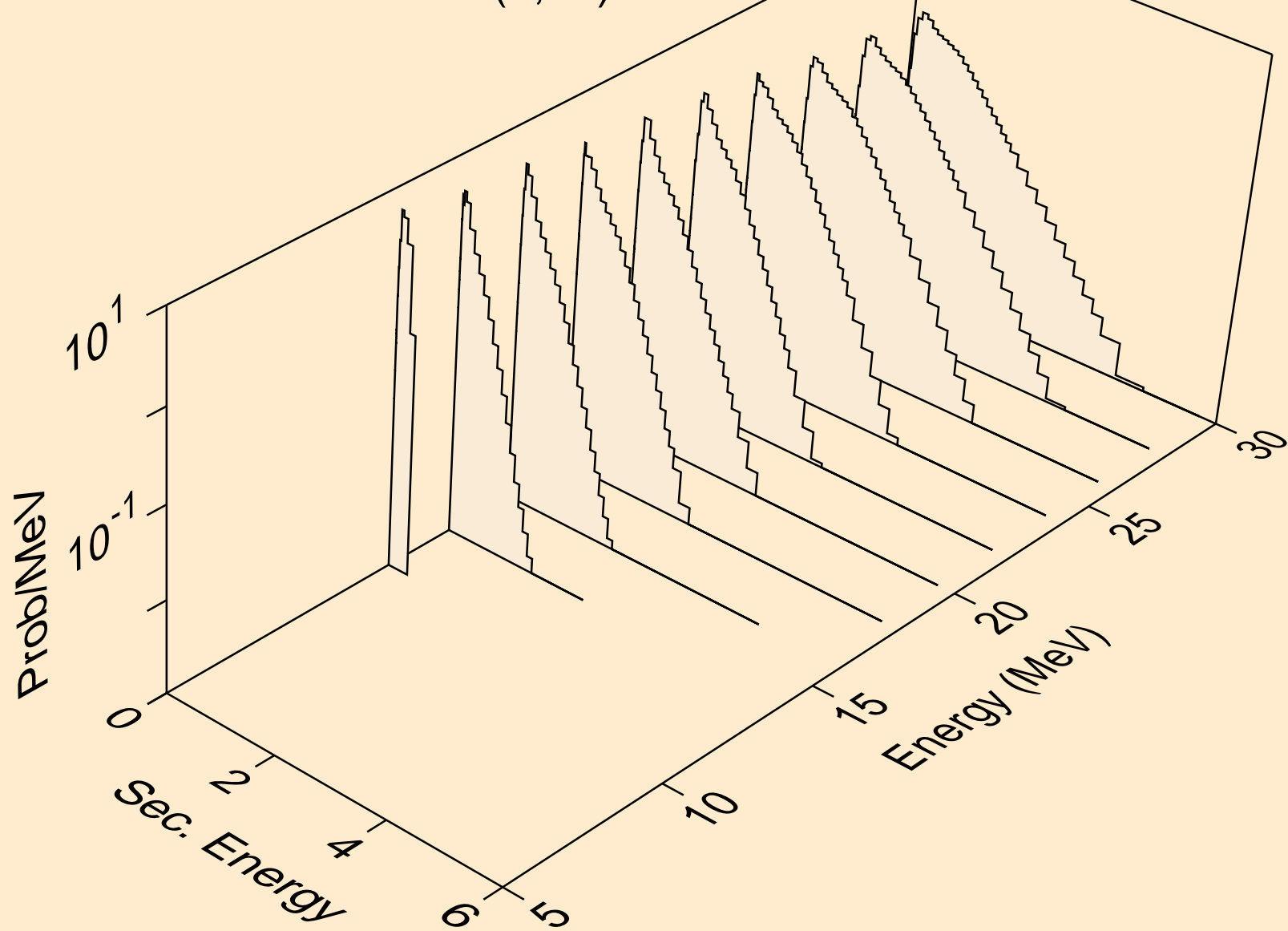
SM159 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,3n)



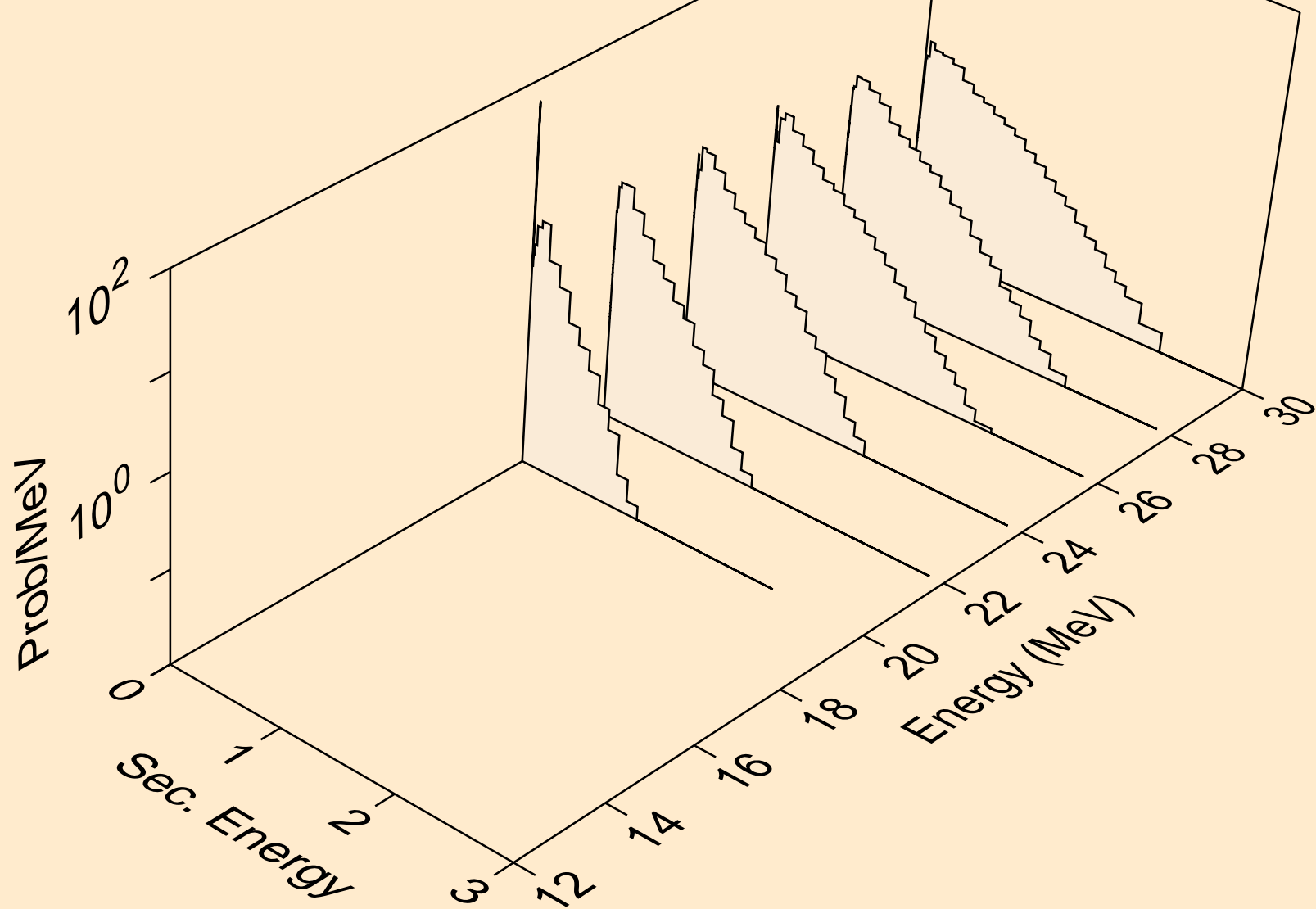
SM159 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,n\*)a



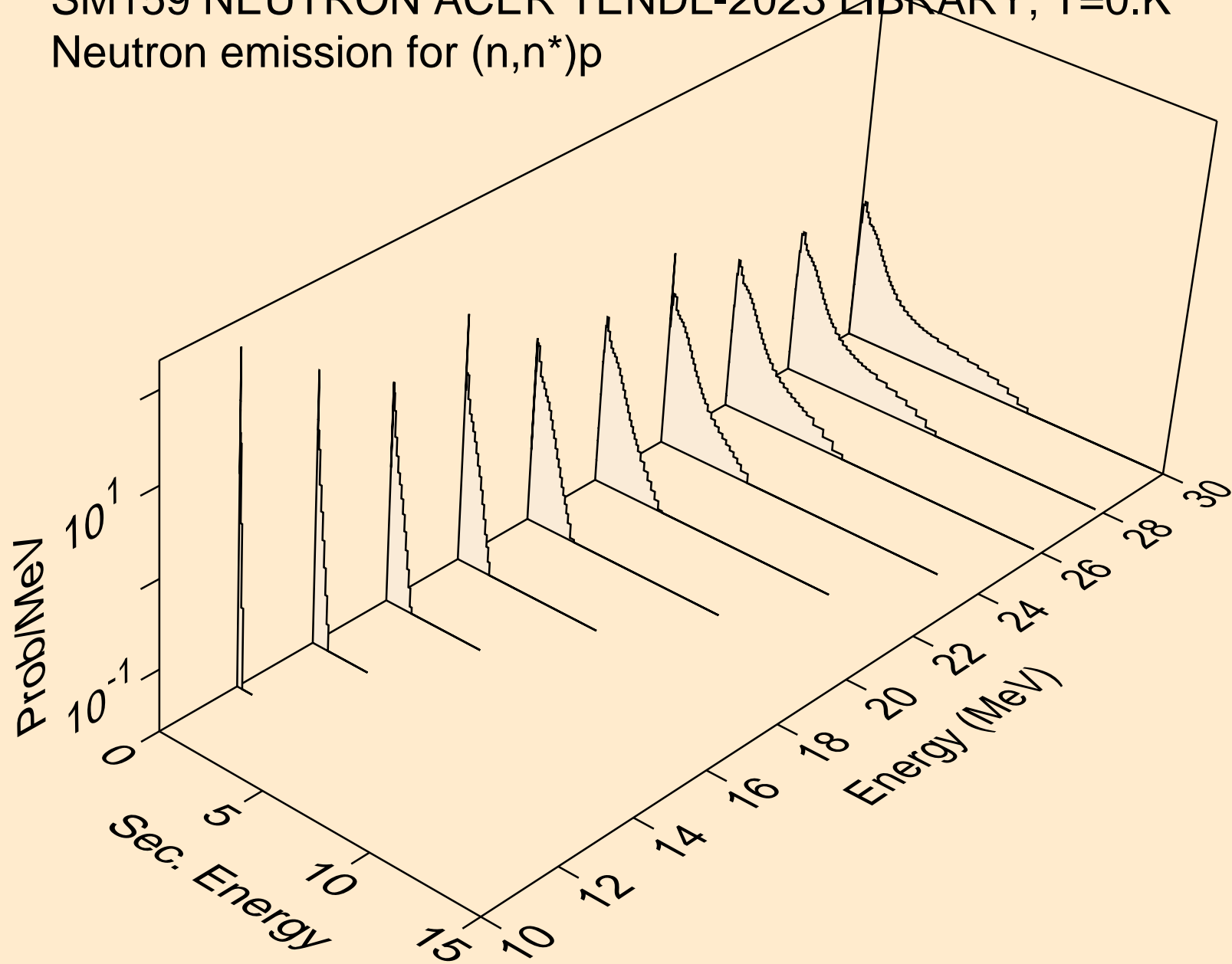
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Neutron emission for (n,2n)a



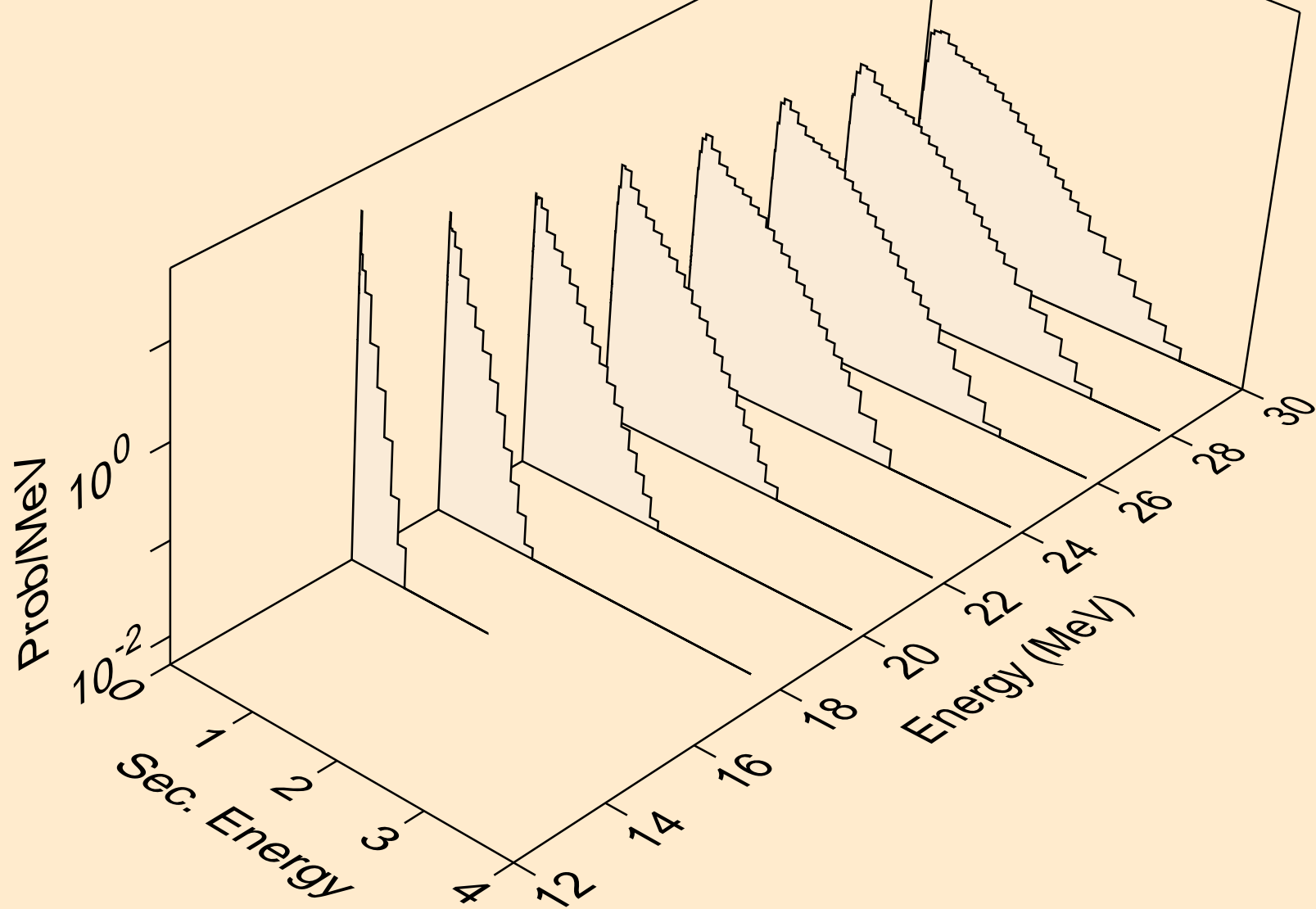
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Neutron emission for (n,3n)a



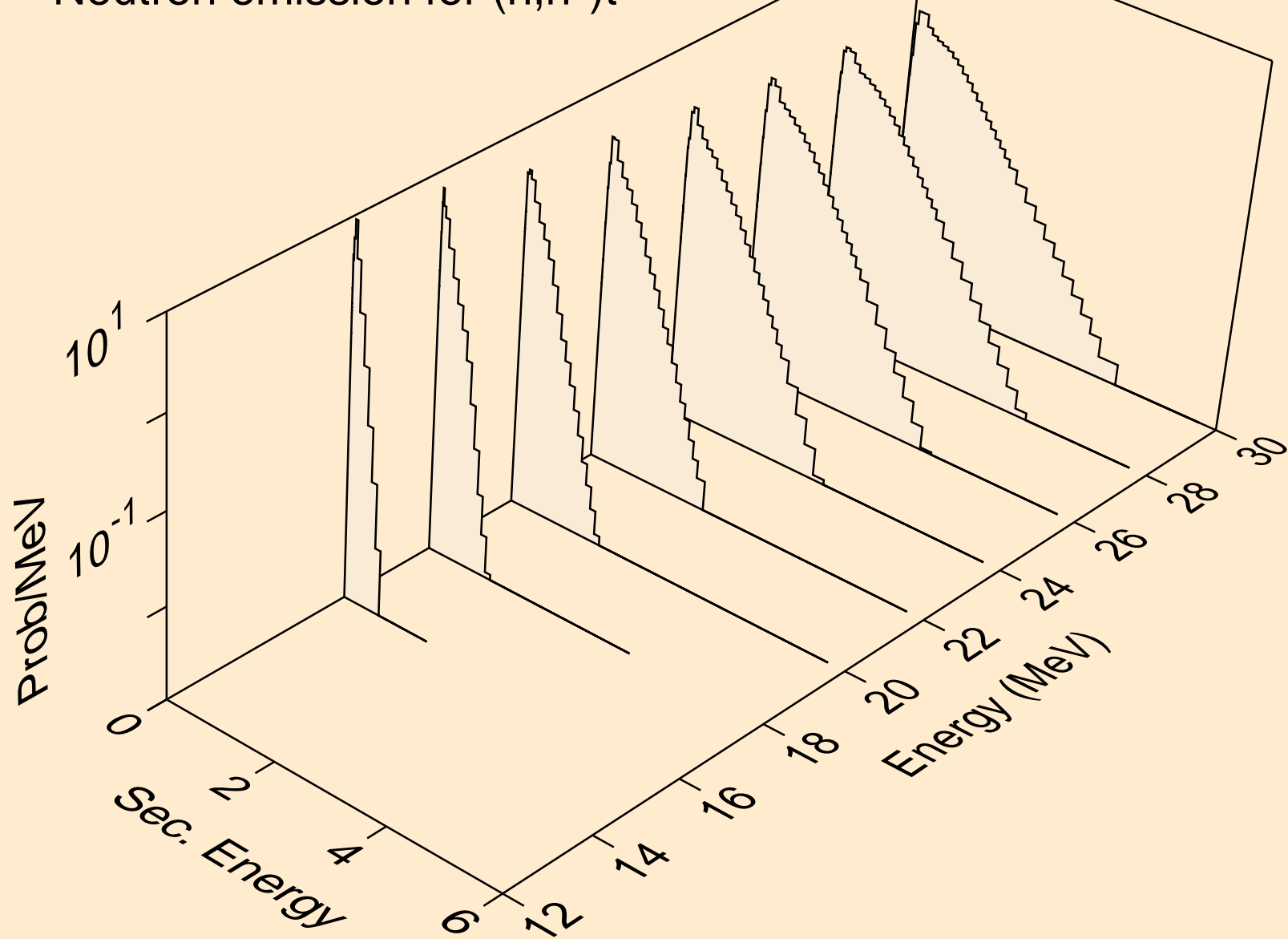
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Neutron emission for (n,n\*)p



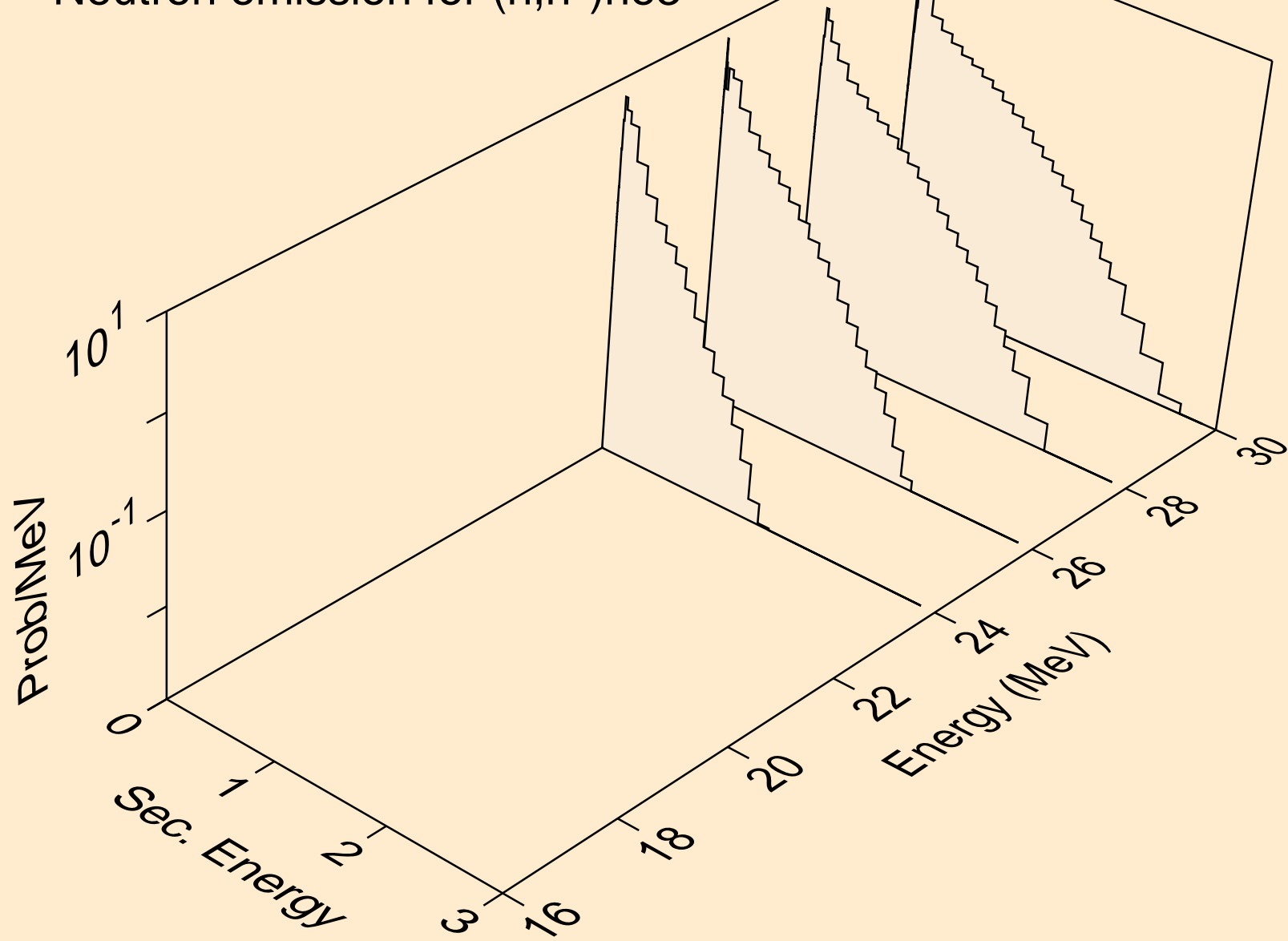
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Neutron emission for (n,n\*)d



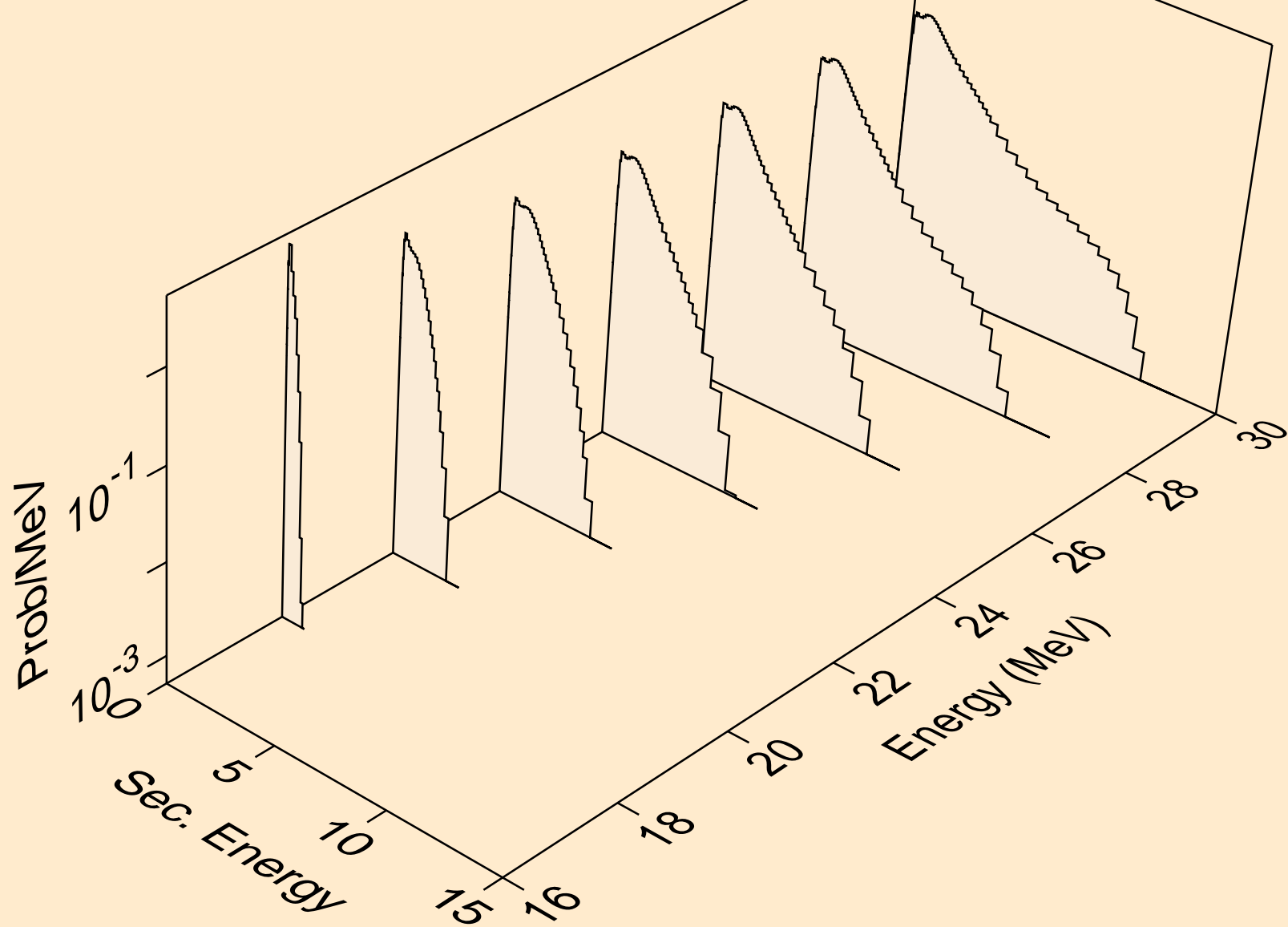
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Neutron emission for (n,n\*)t



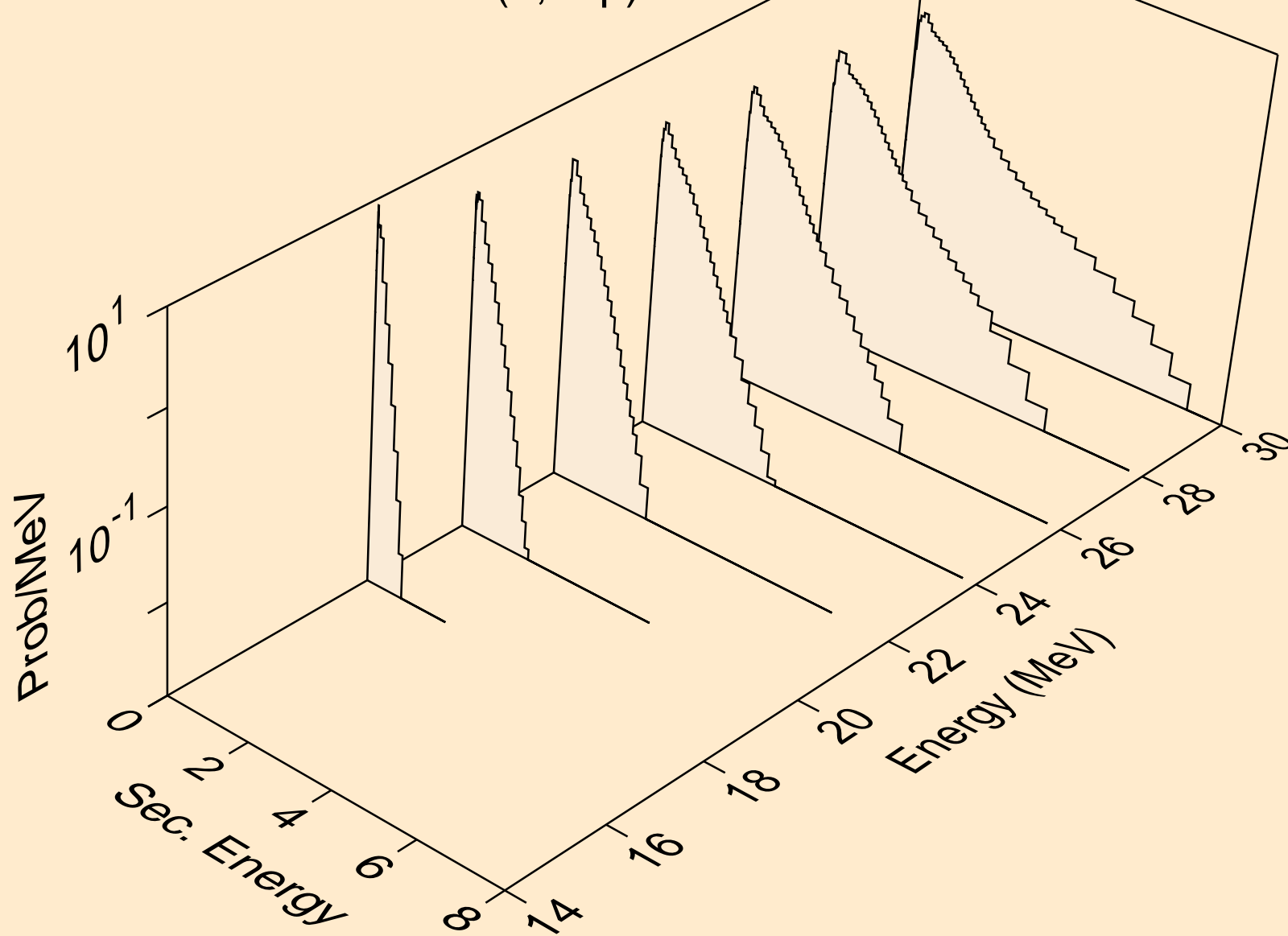
SM159 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,n\*)he3



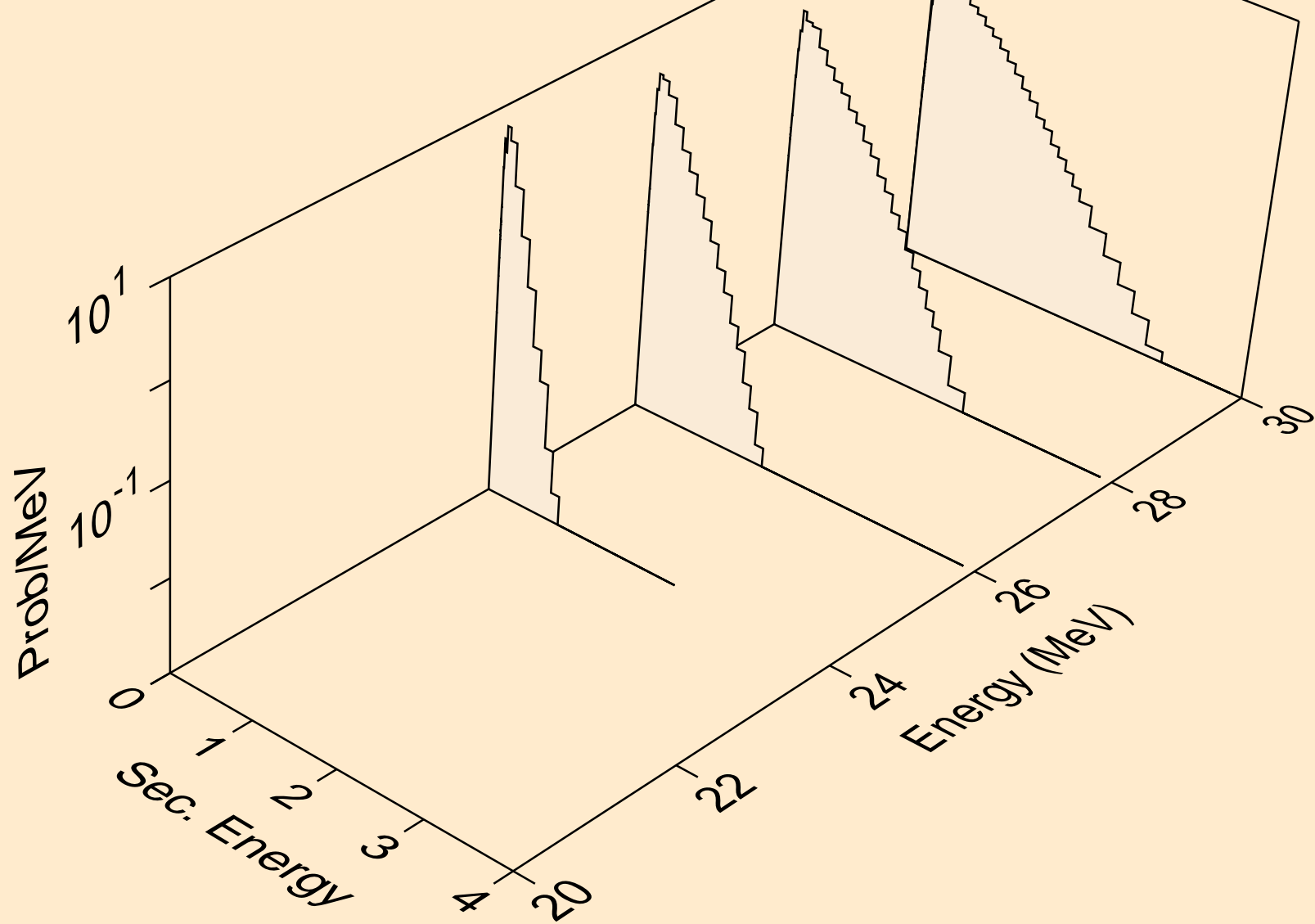
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Neutron emission for (n,4n)



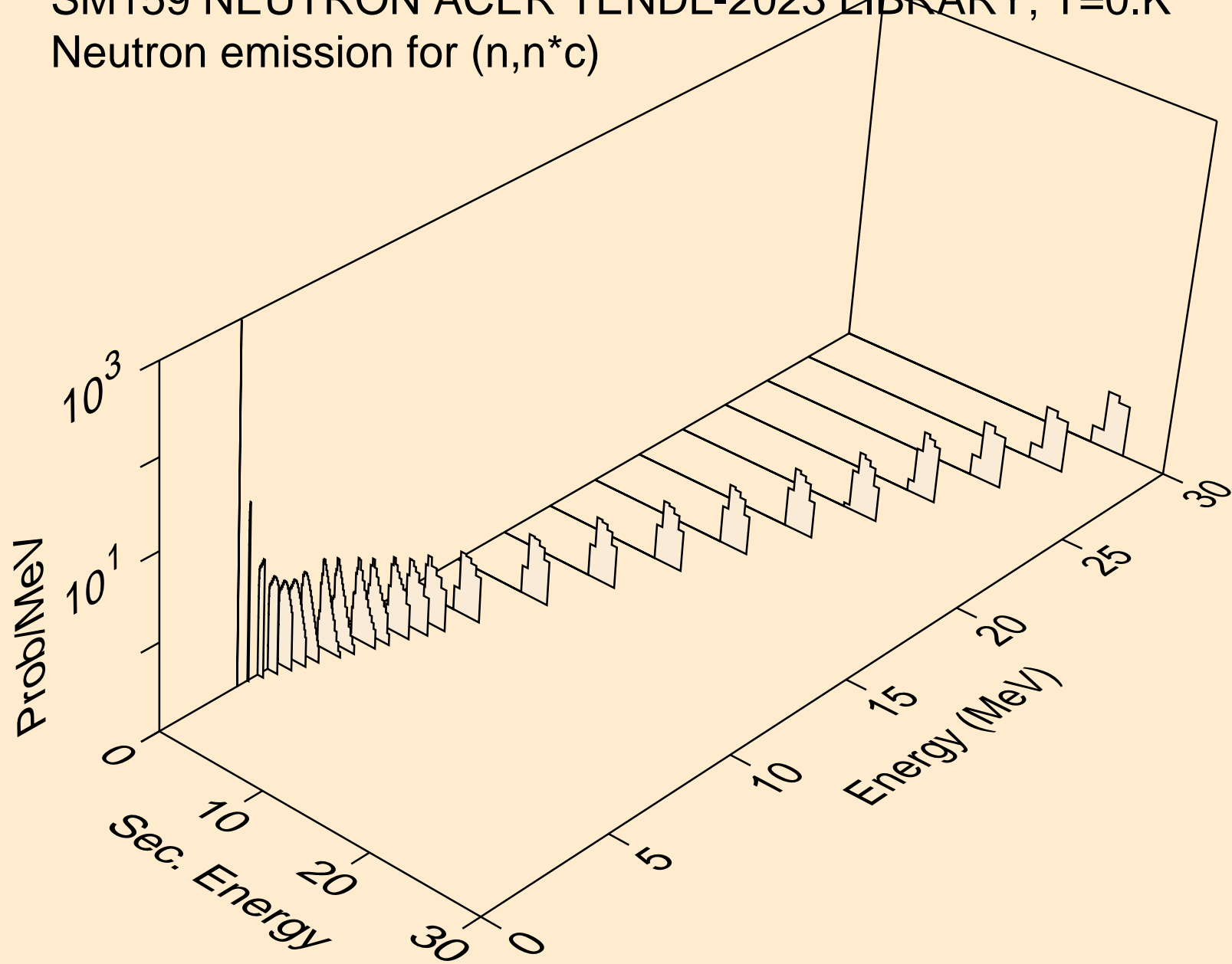
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Neutron emission for (n,2np)



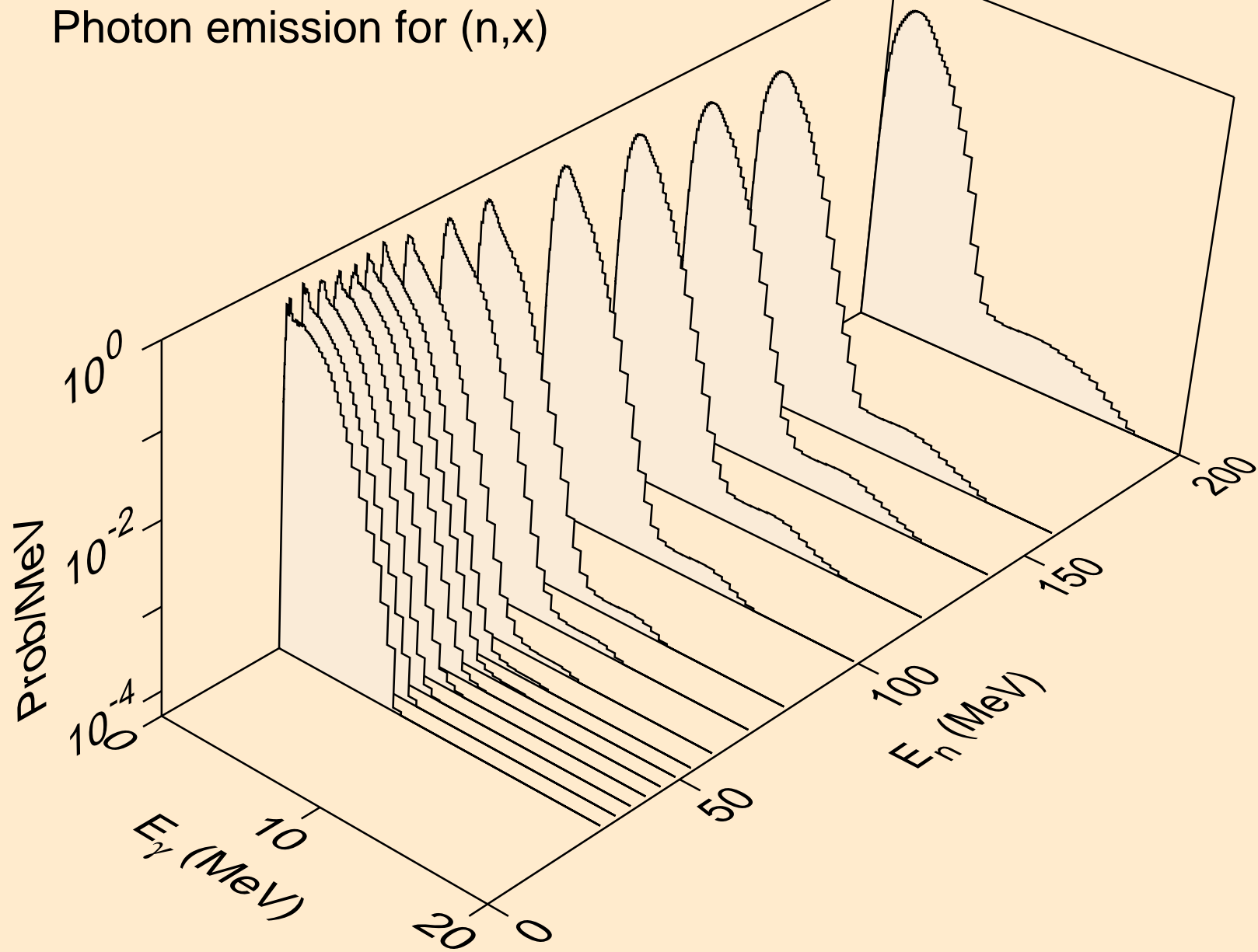
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Neutron emission for (n,3np)



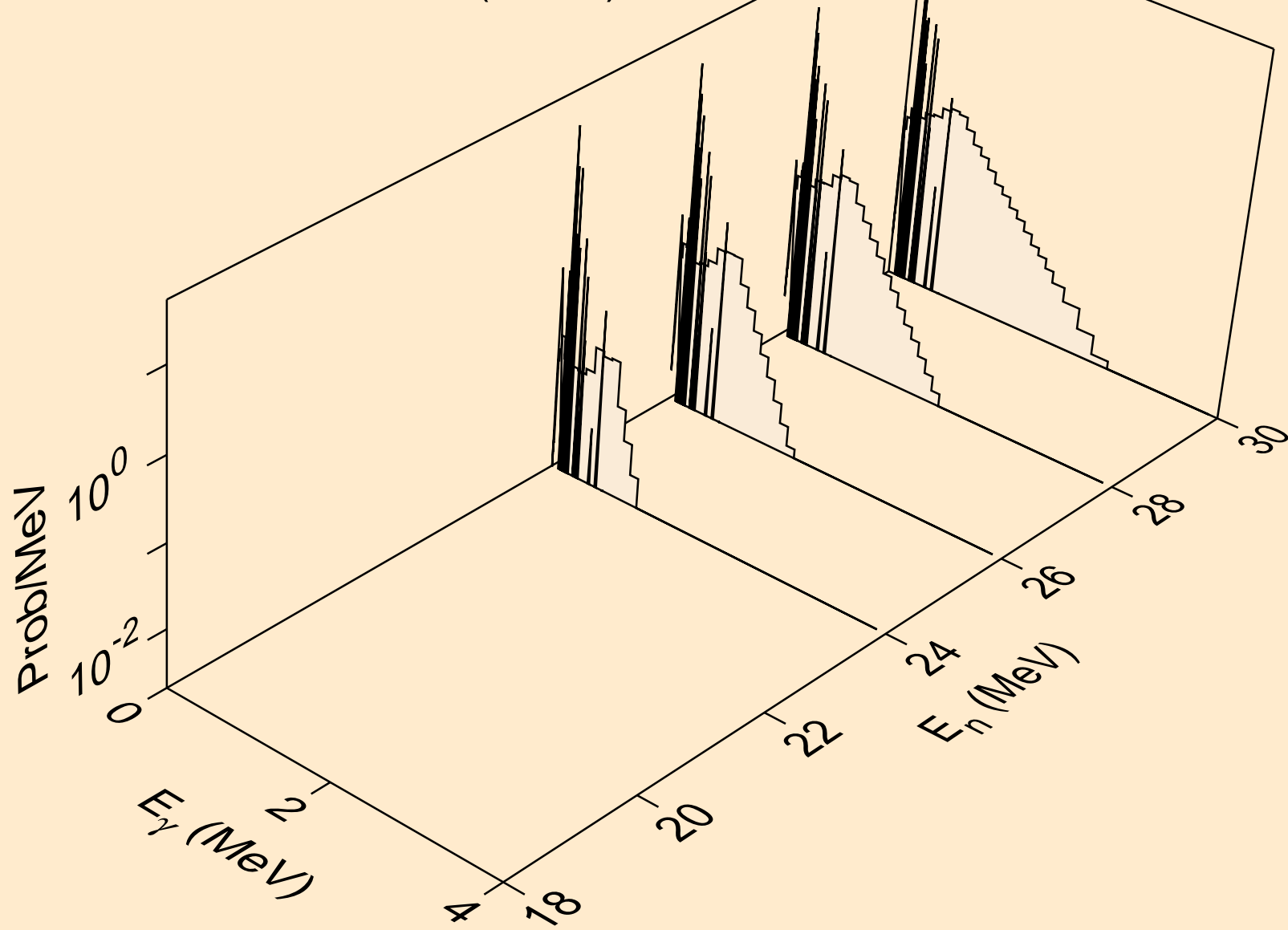
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Neutron emission for (n,n\*c)



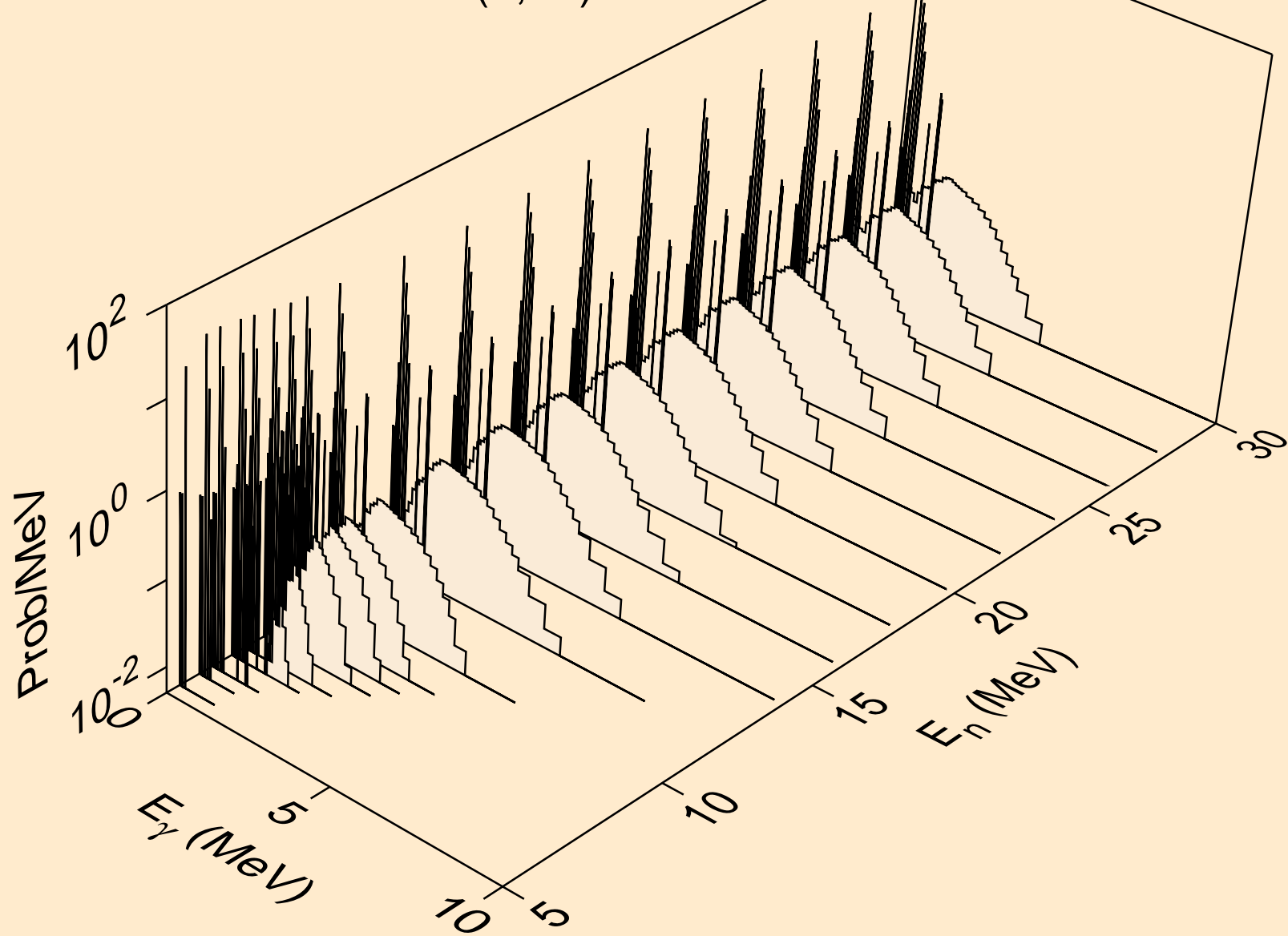
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Photon emission for (n,x)



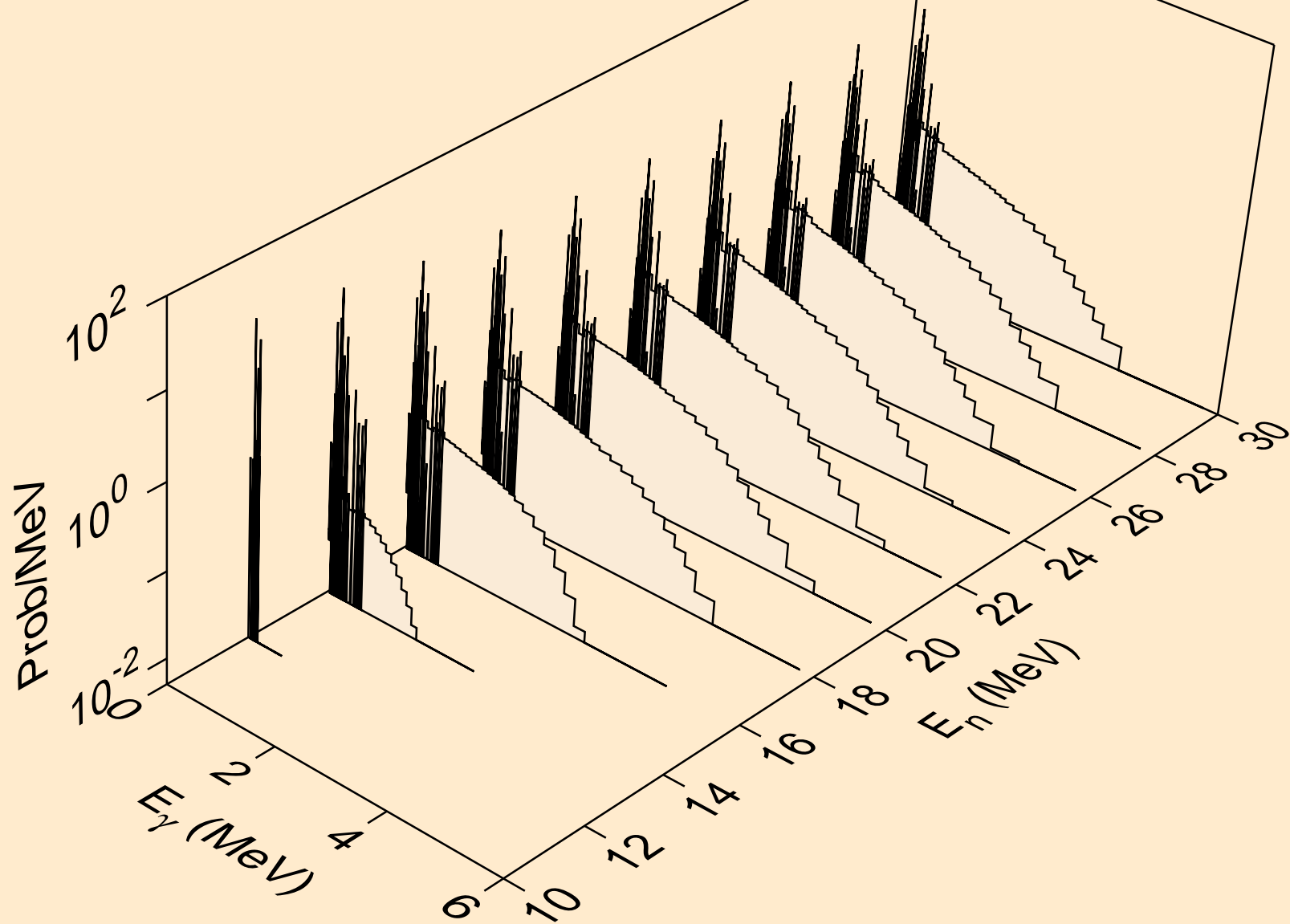
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Photon emission for (n,2nd)



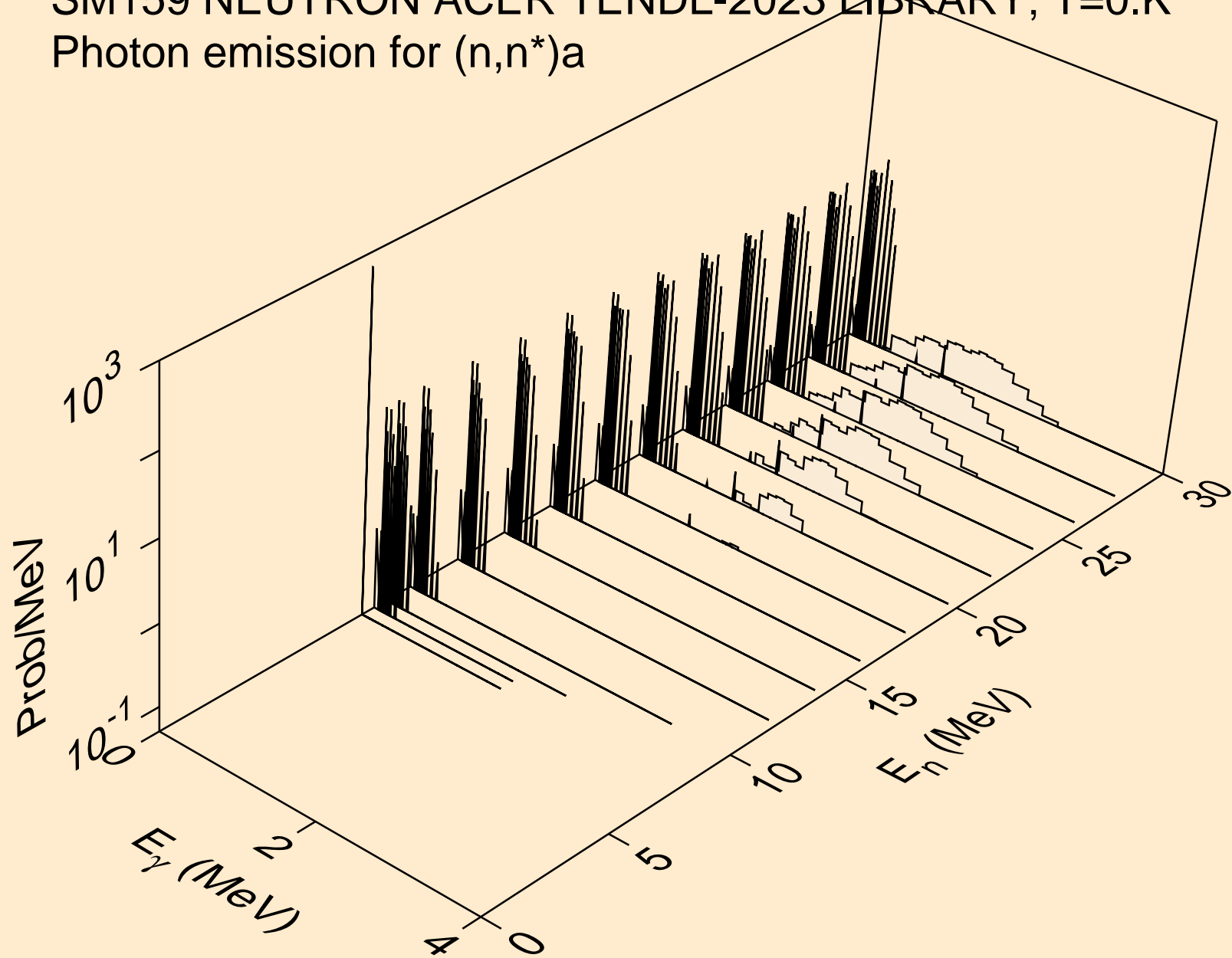
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Photon emission for (n,2n)



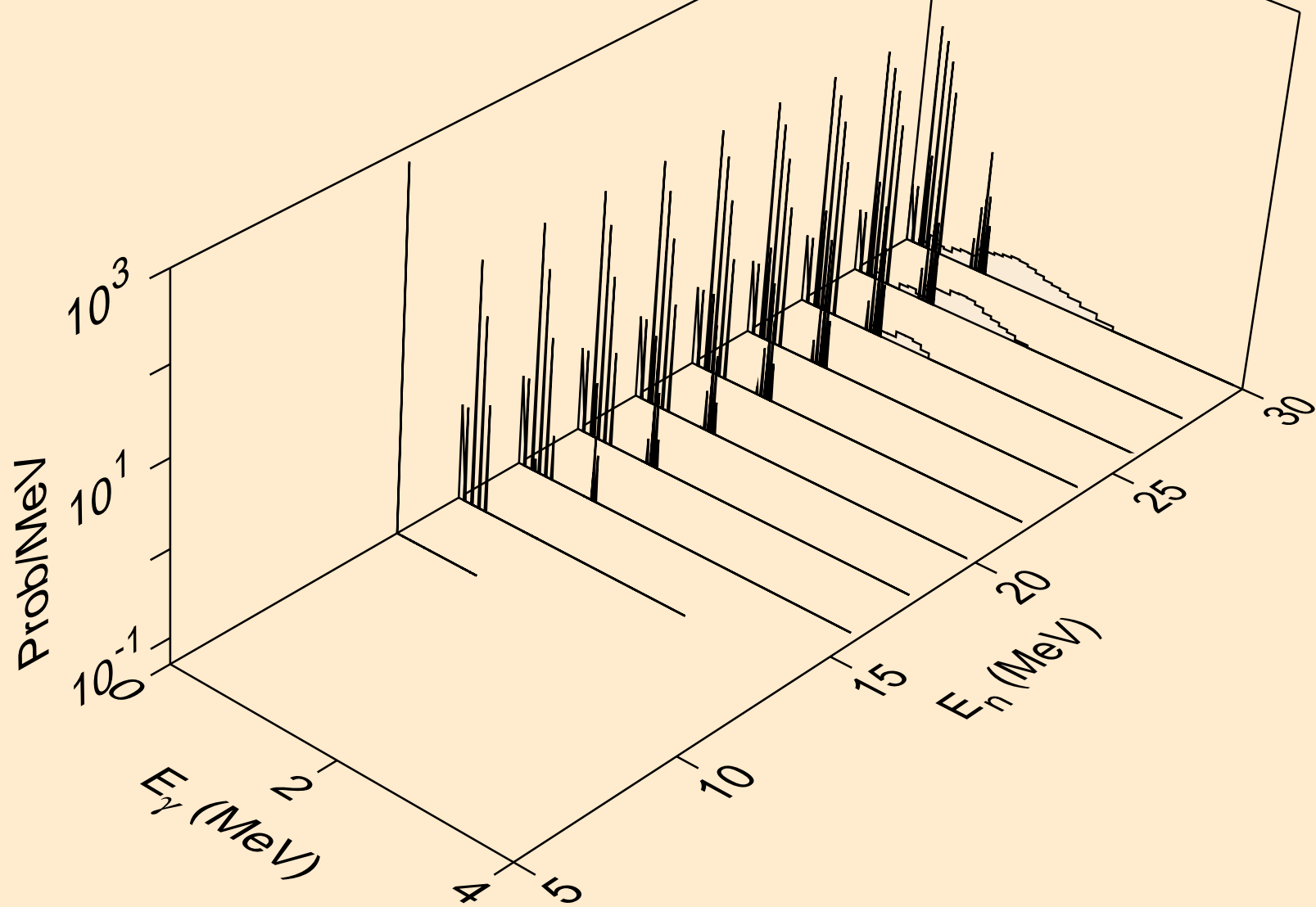
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Photon emission for (n,3n)



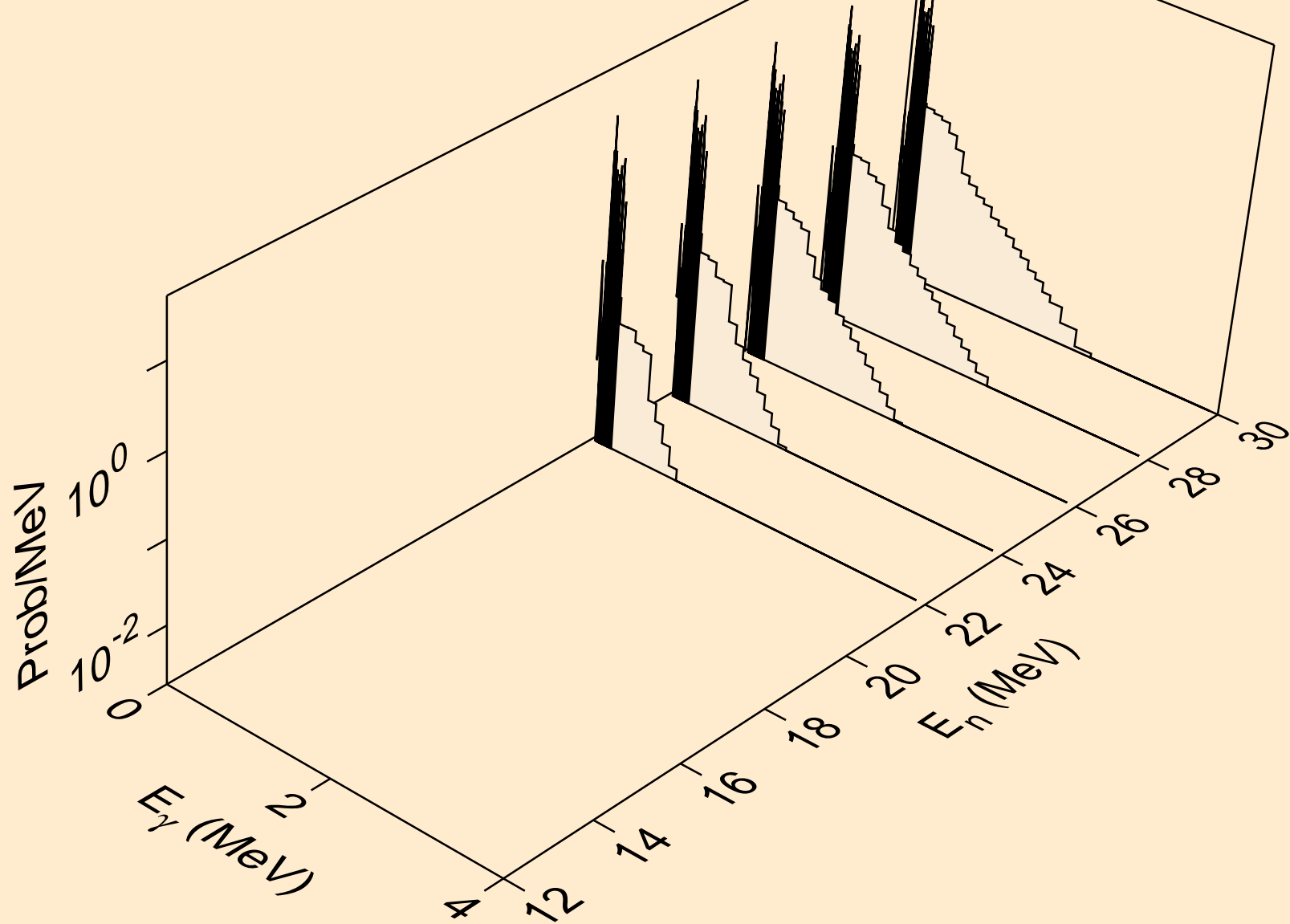
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Photon emission for (n,n\*)a



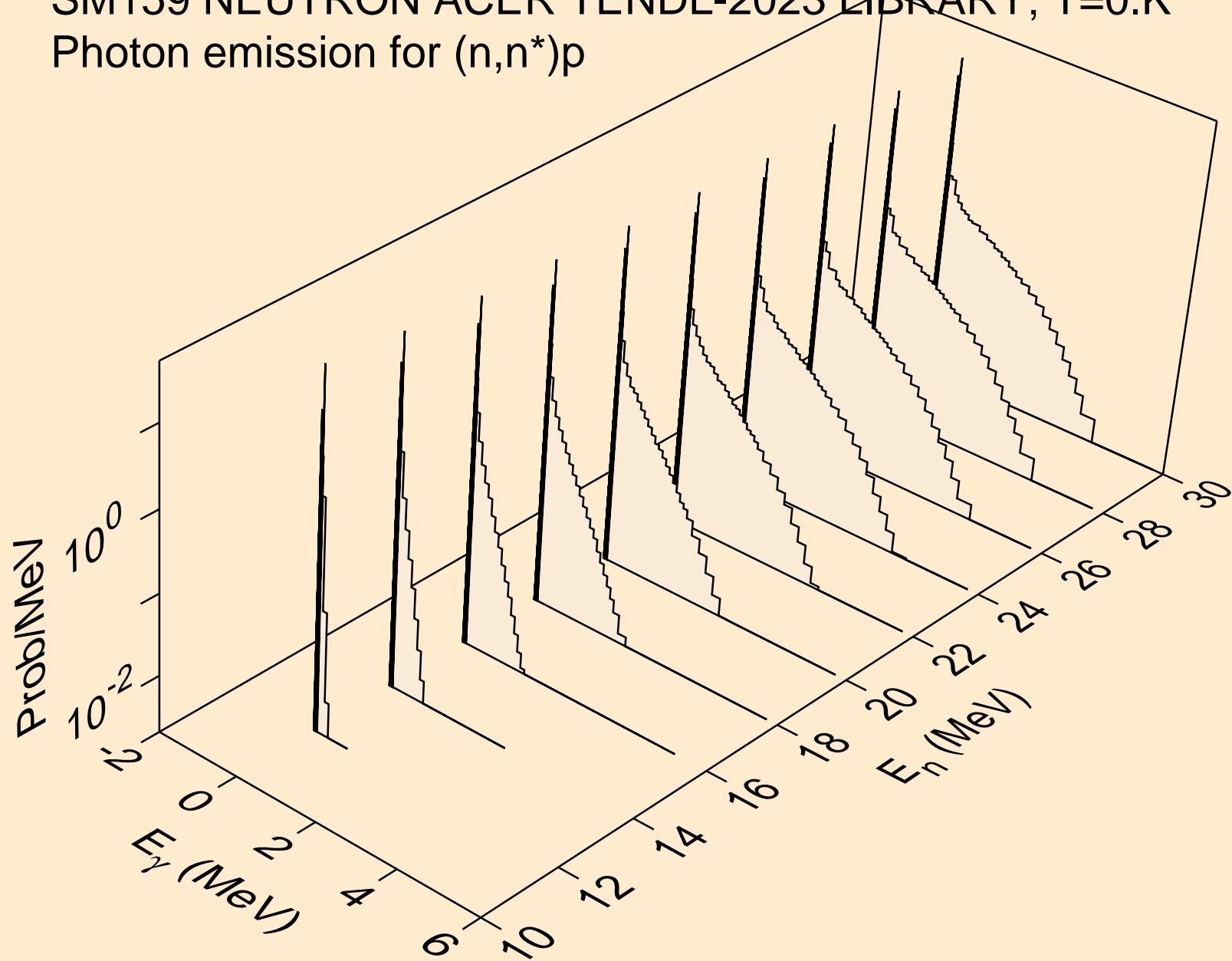
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Photon emission for (n,2n)a



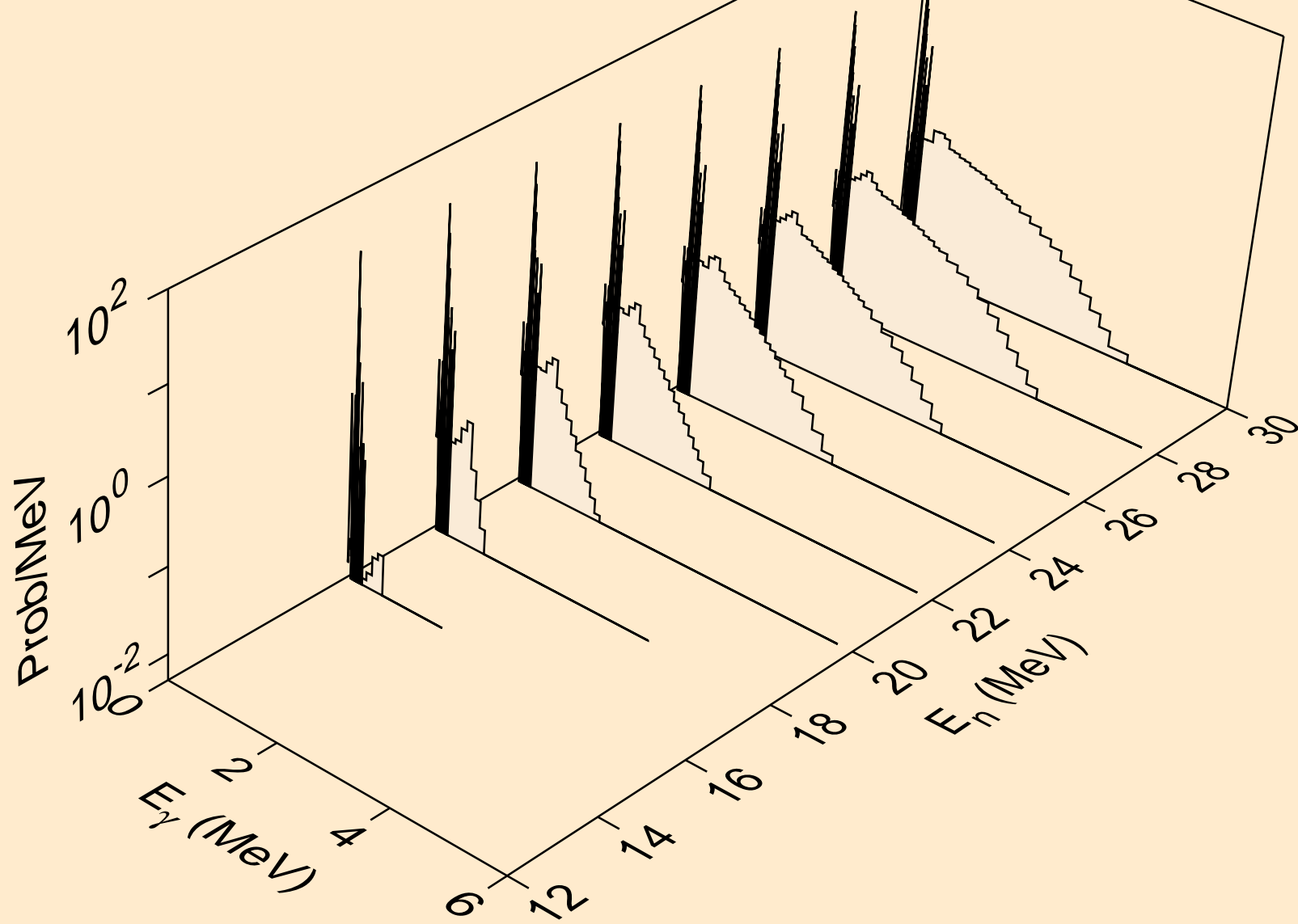
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Photon emission for (n,3n)a



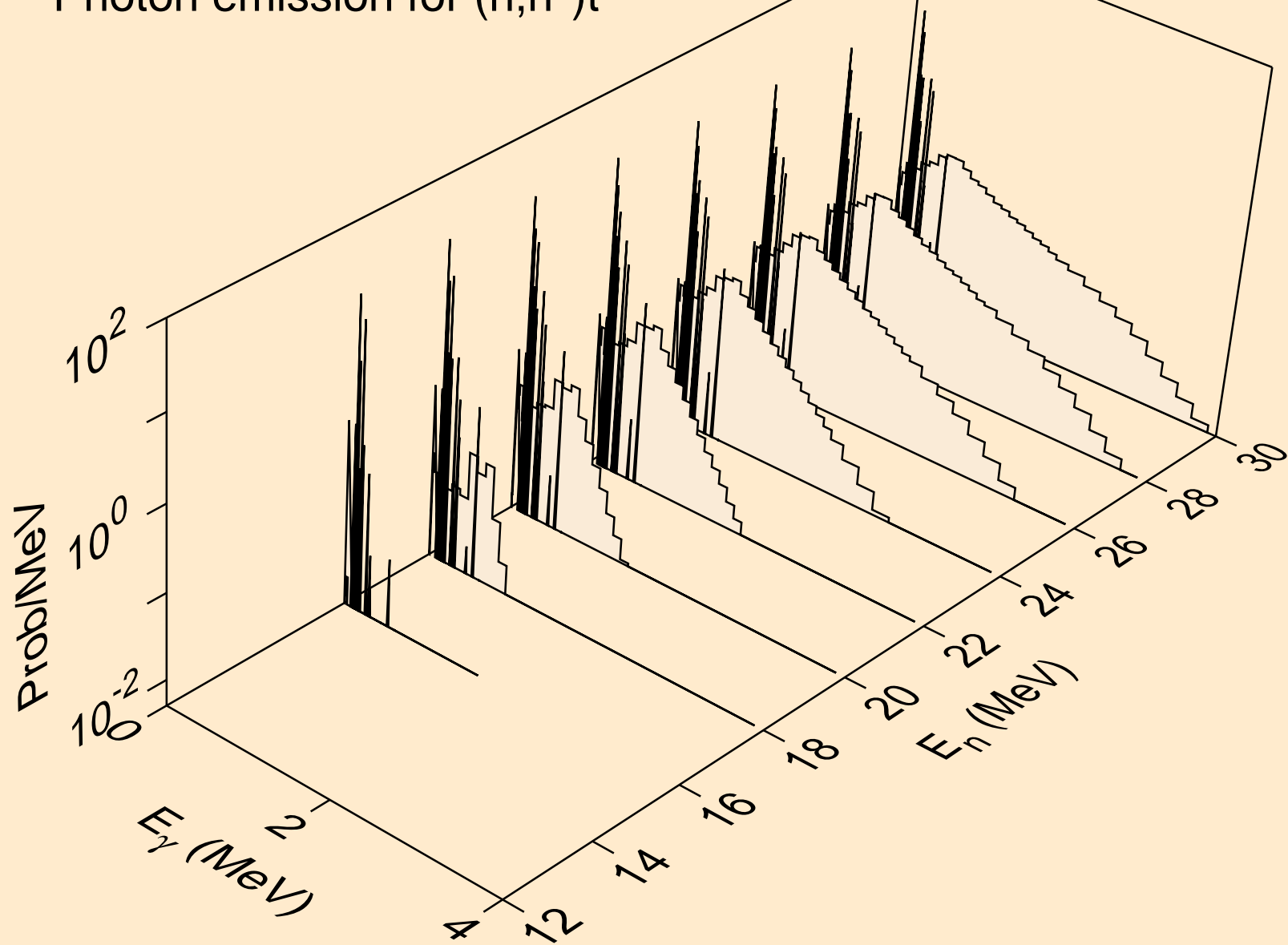
SM159 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)p



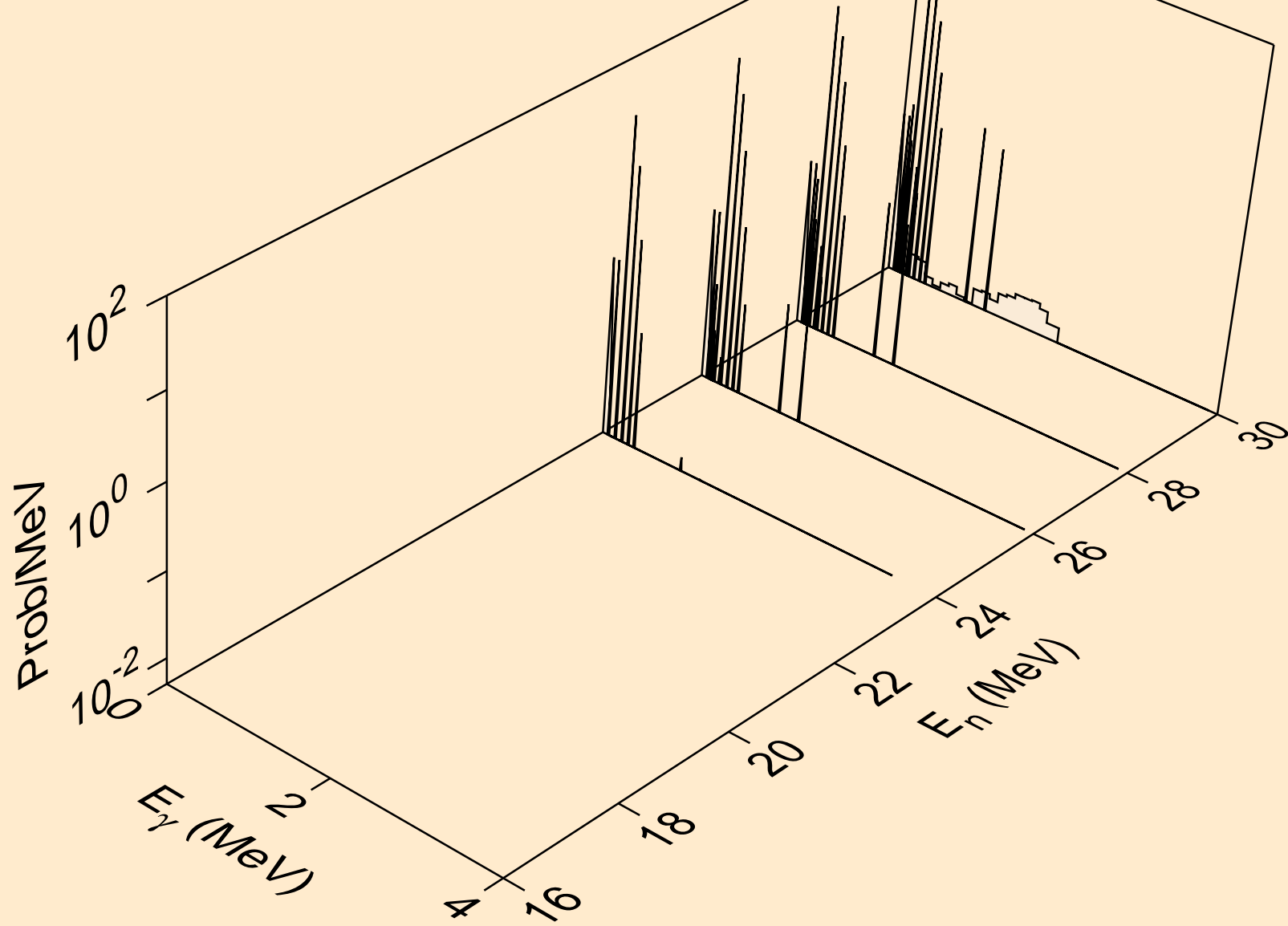
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Photon emission for (n,n\*)d



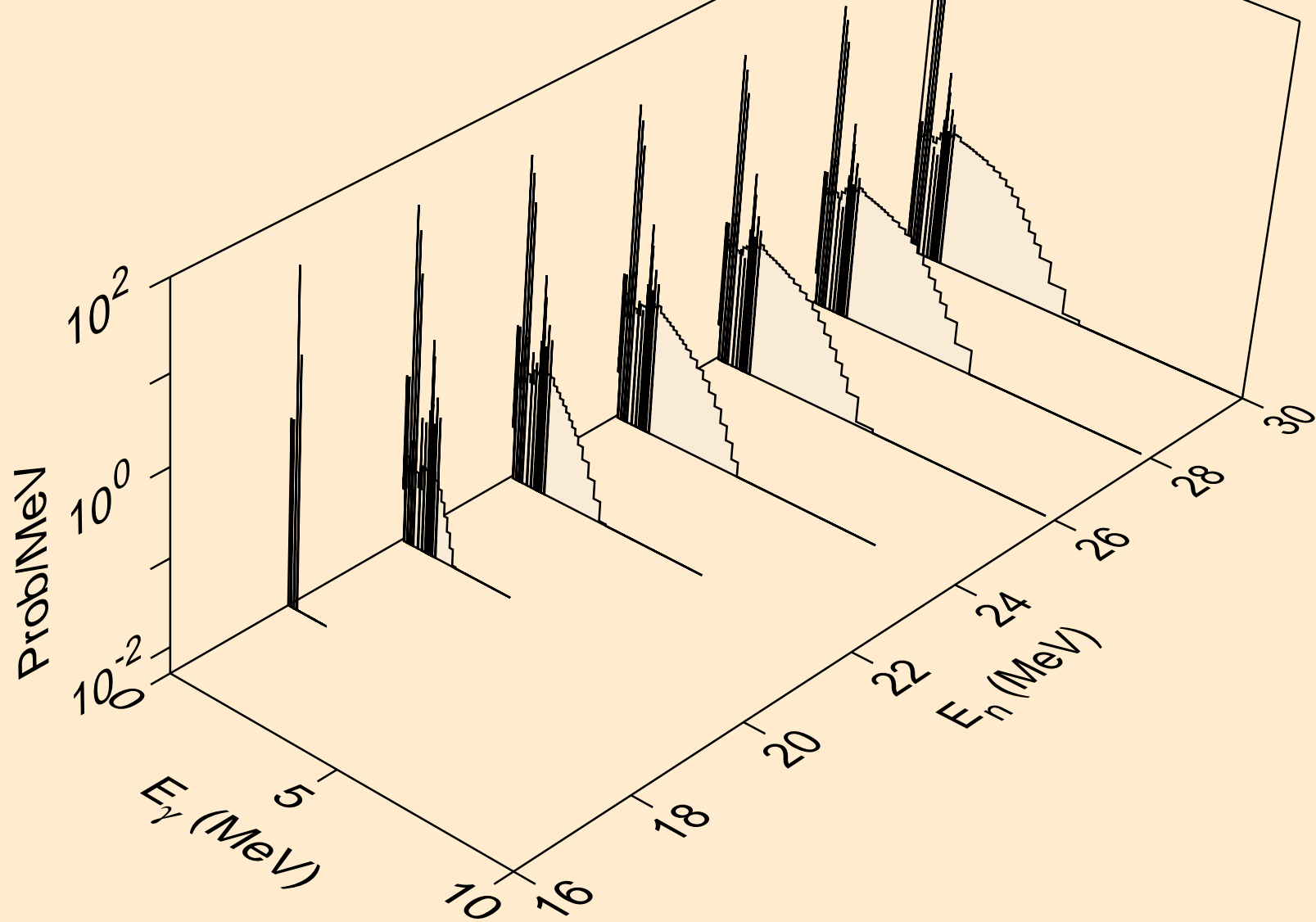
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Photon emission for (n,n\*)t



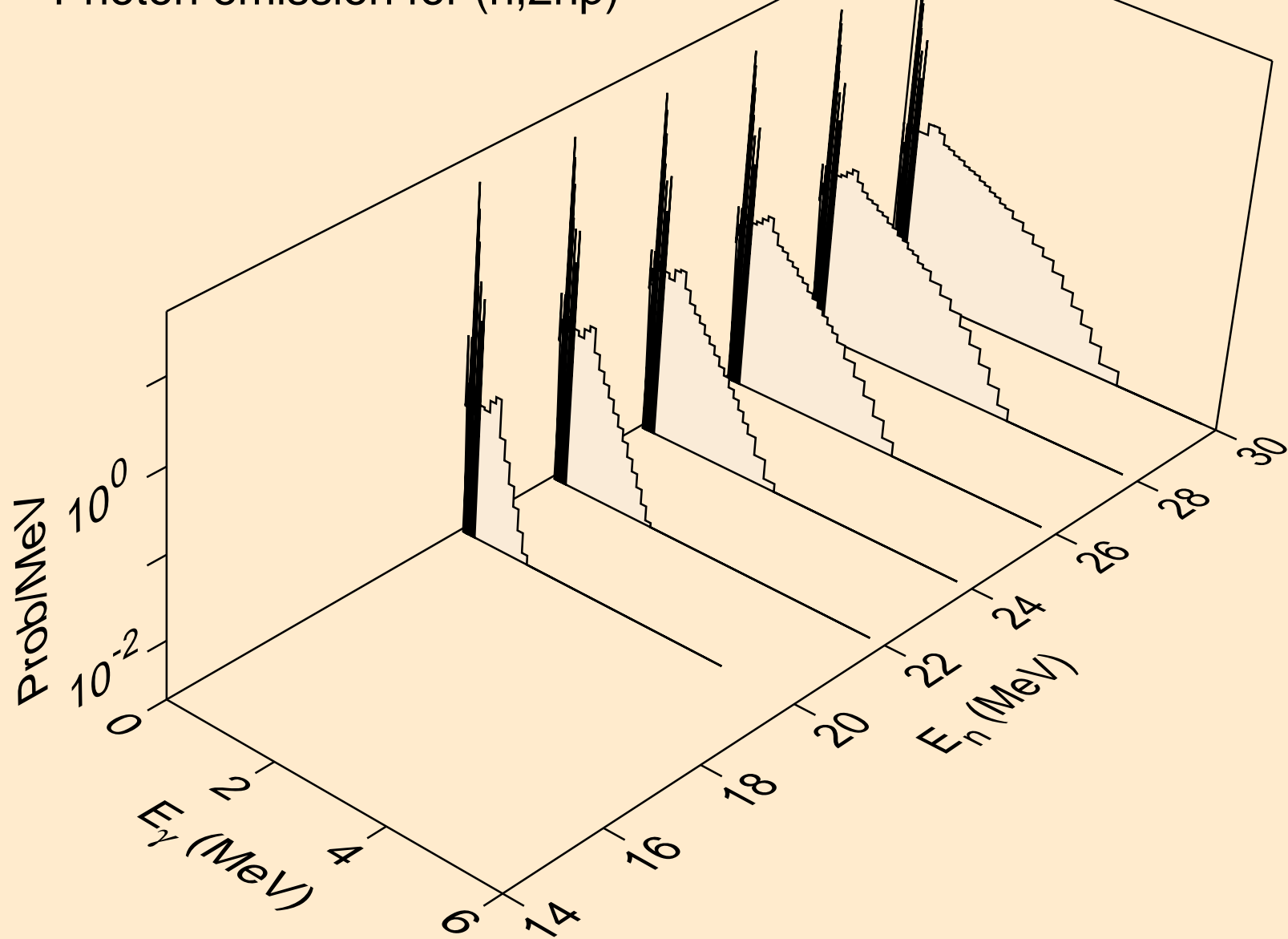
SM159 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)he3



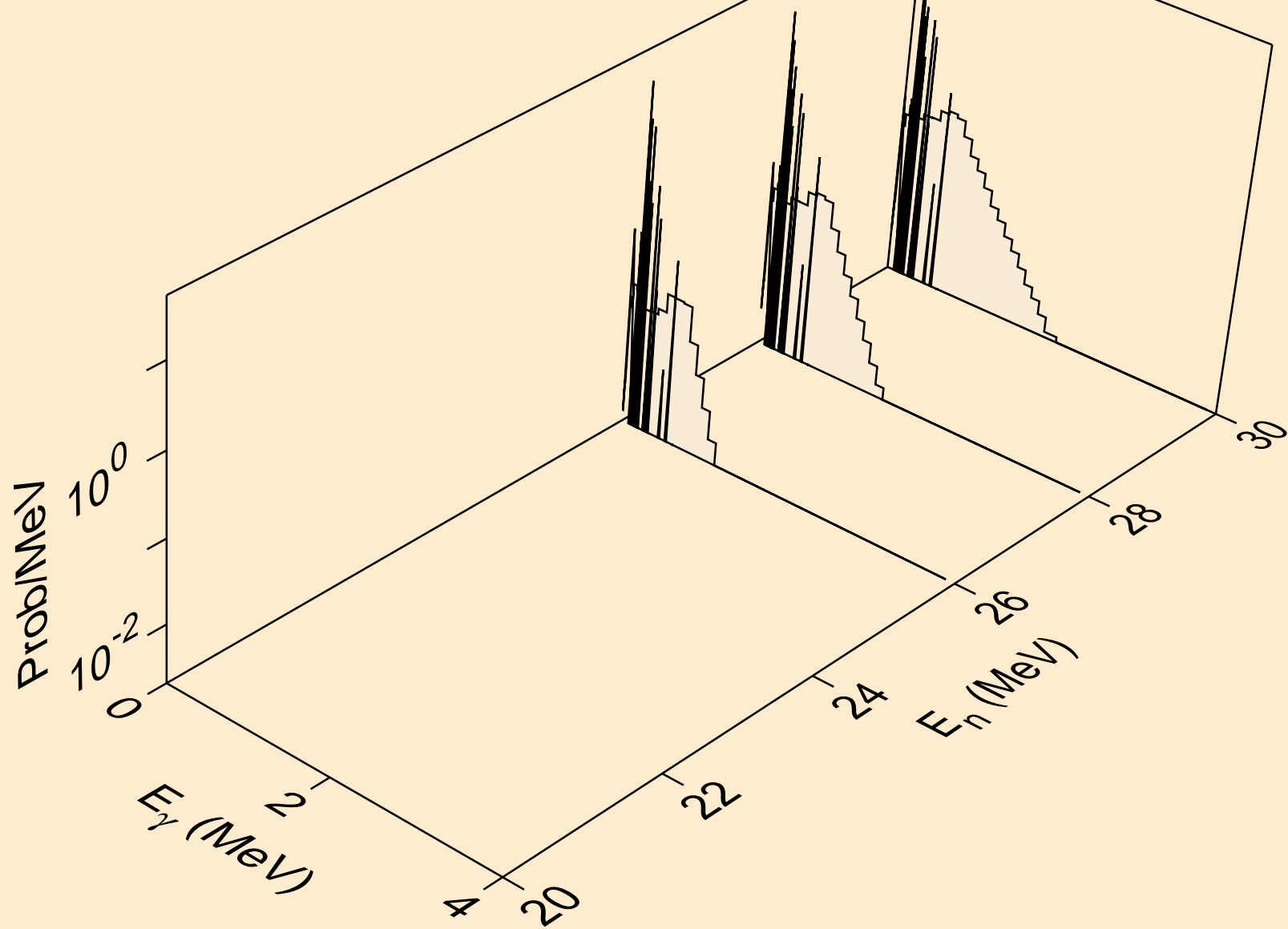
SM159 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,4n)



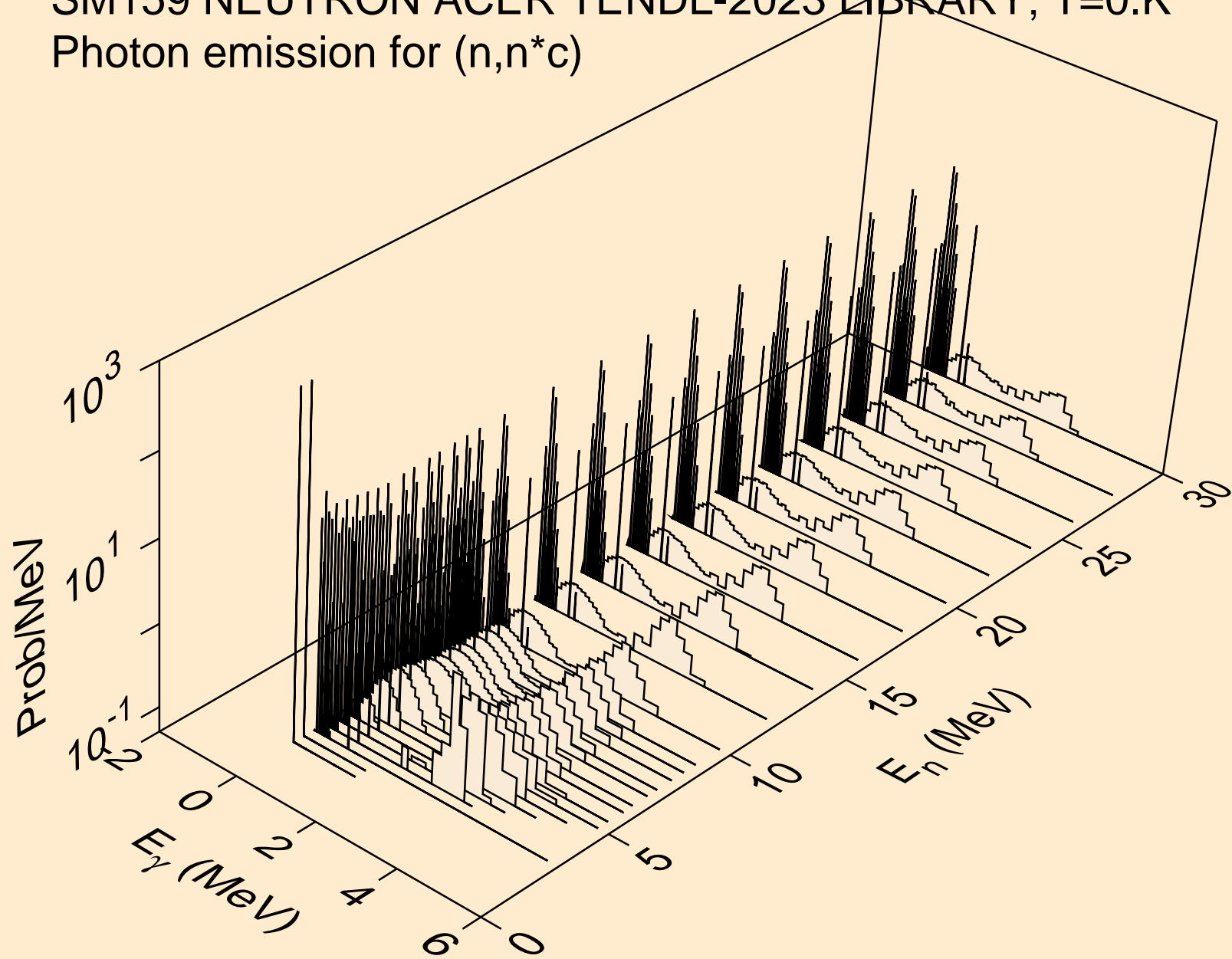
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Photon emission for (n,2np)



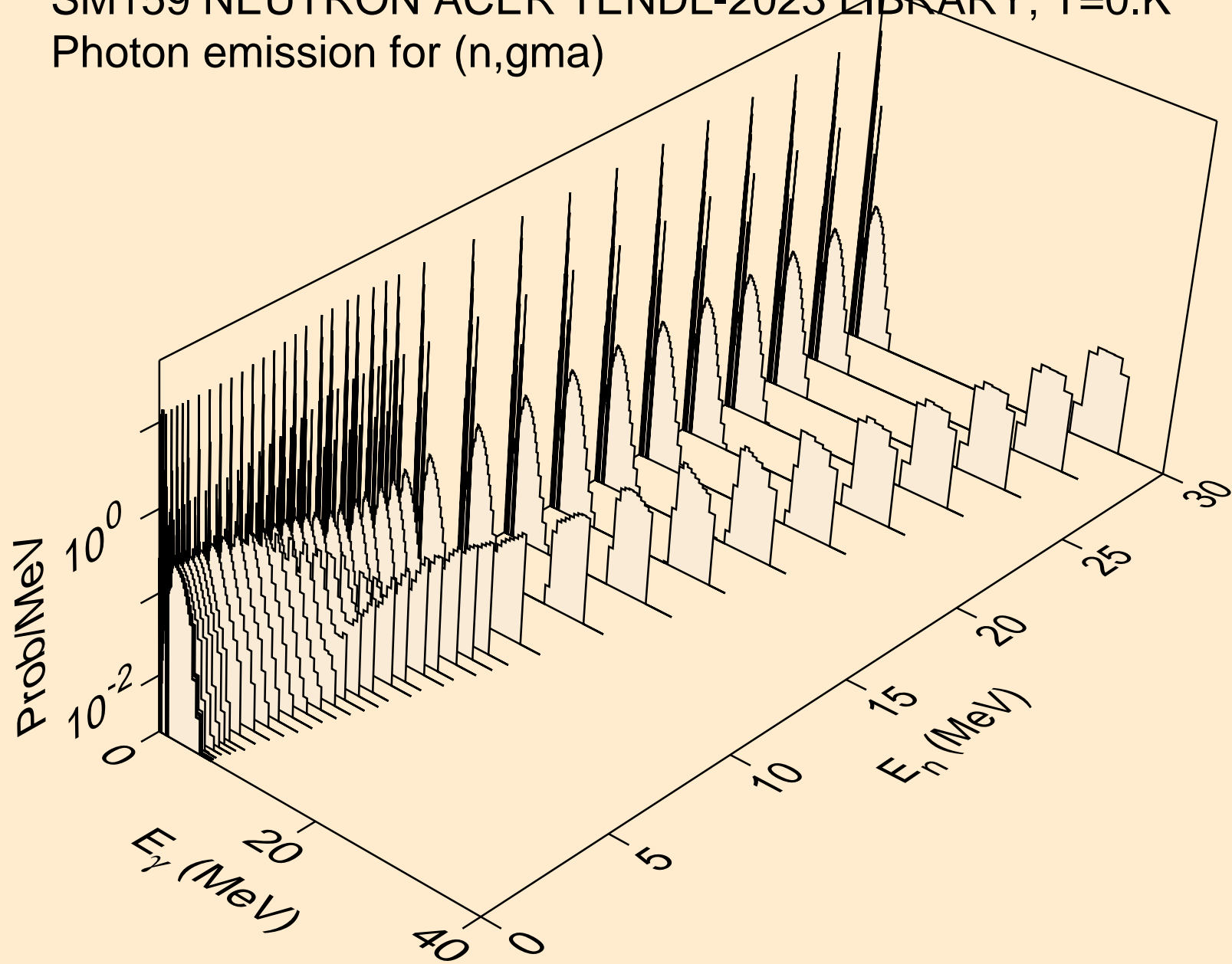
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Photon emission for (n,3np)



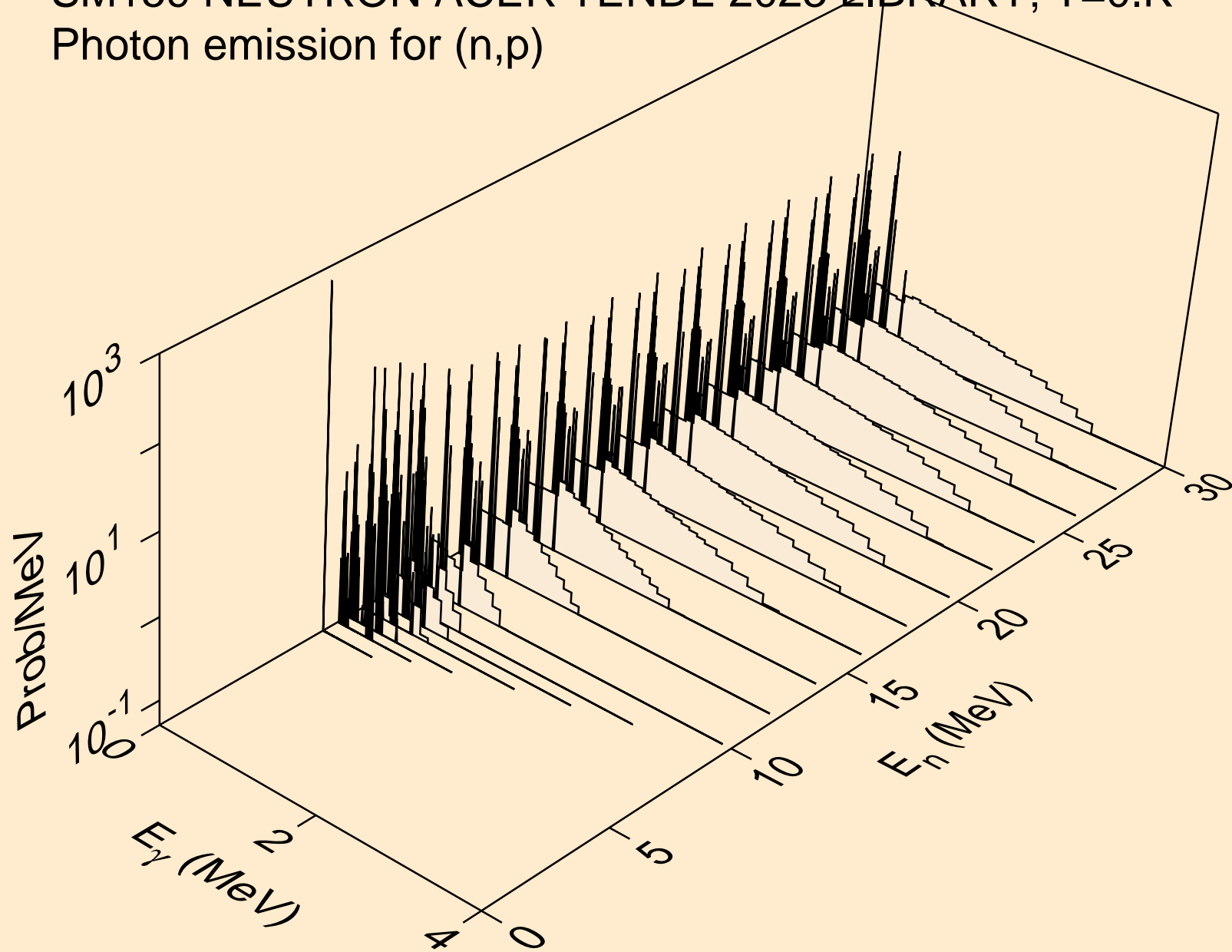
SM159 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*c)



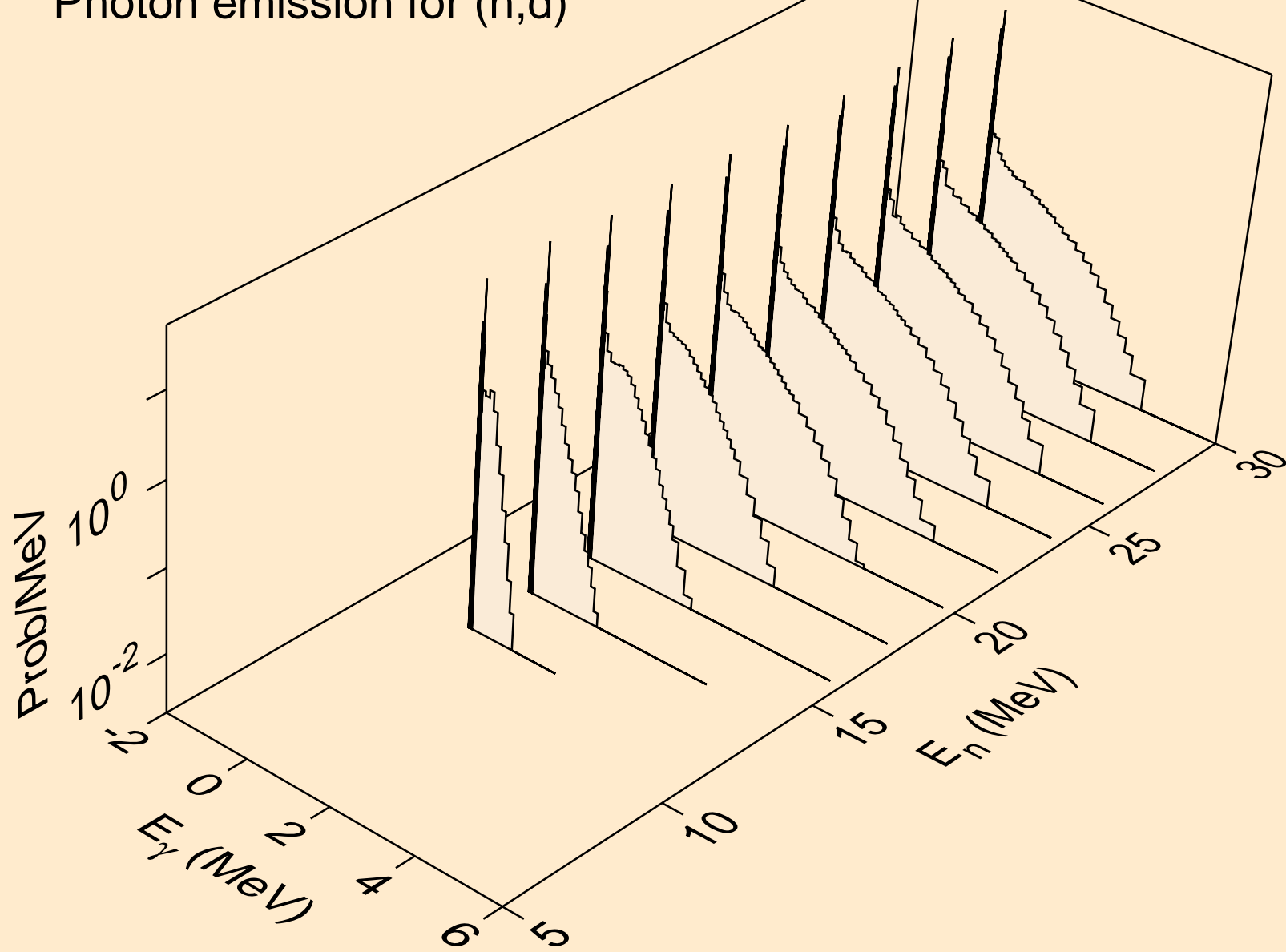
SM159 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,gma)



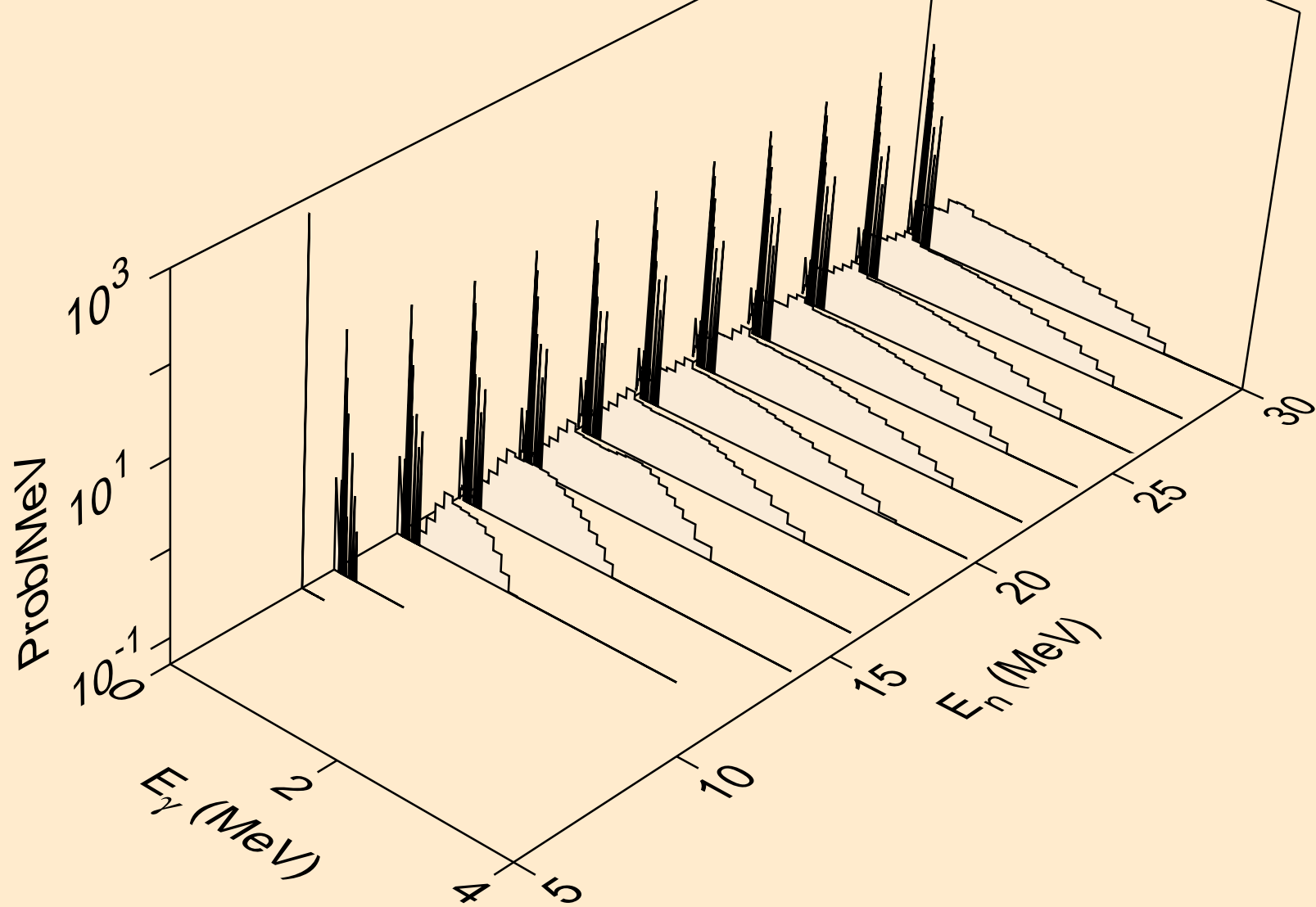
SM159 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,p)



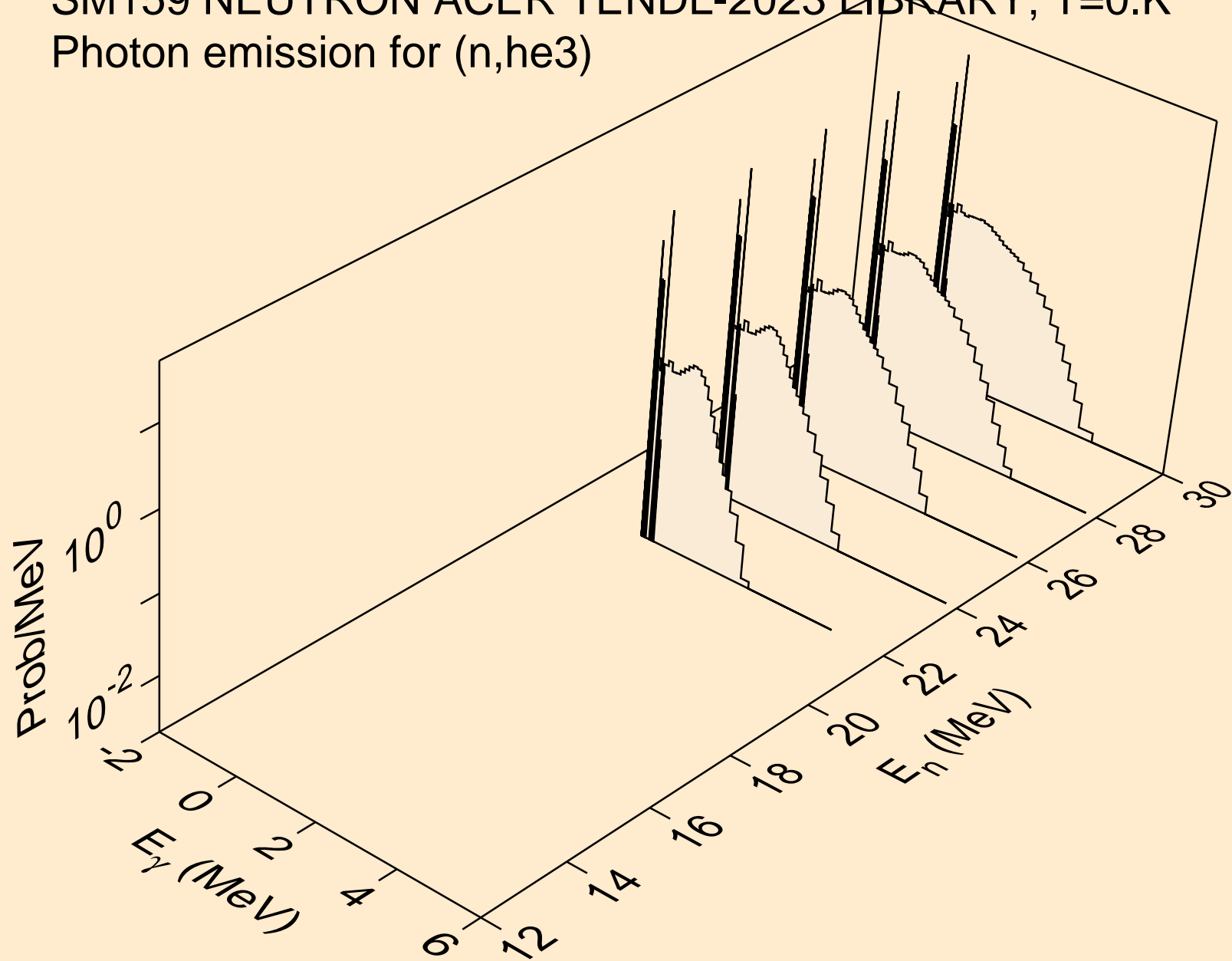
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Photon emission for (n,d)



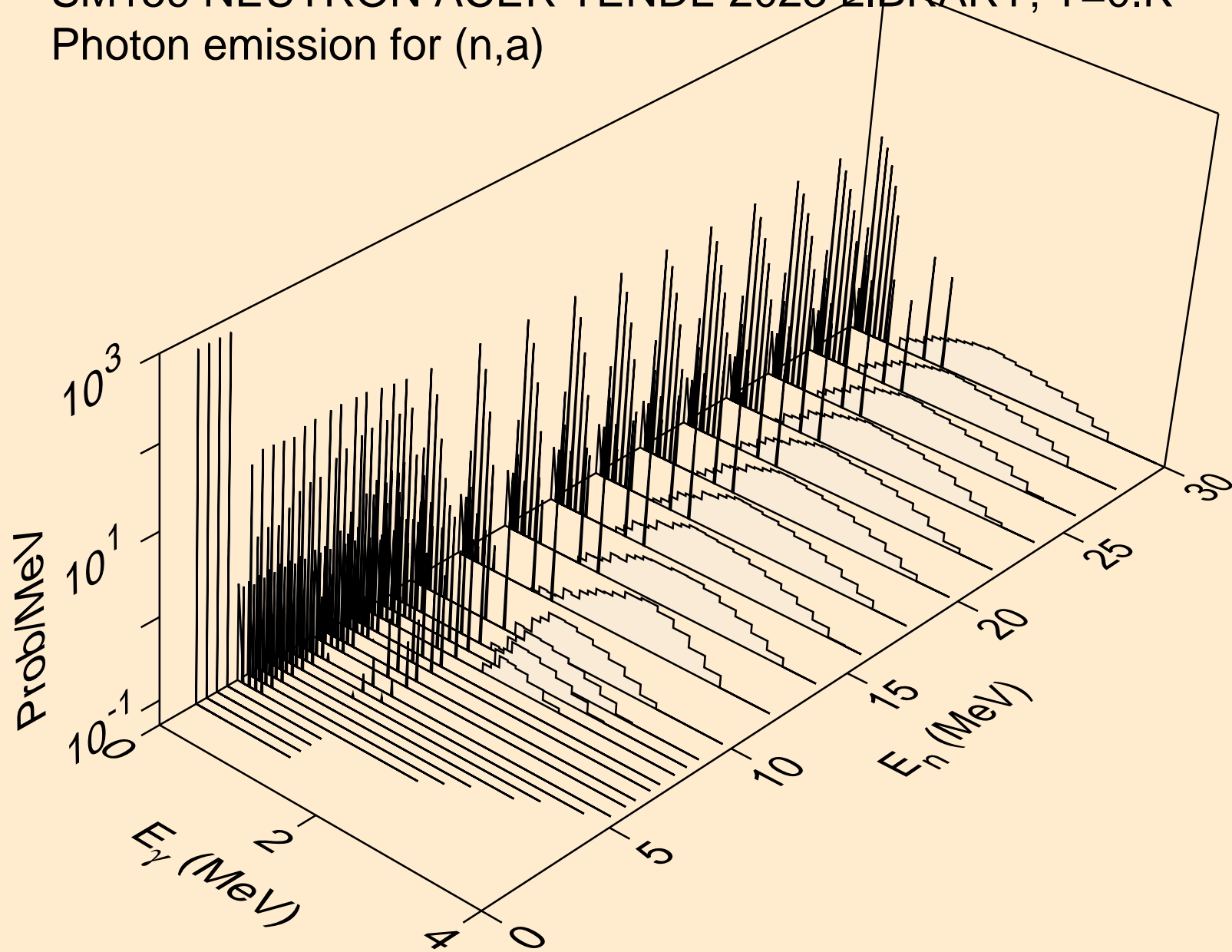
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Photon emission for (n,t)



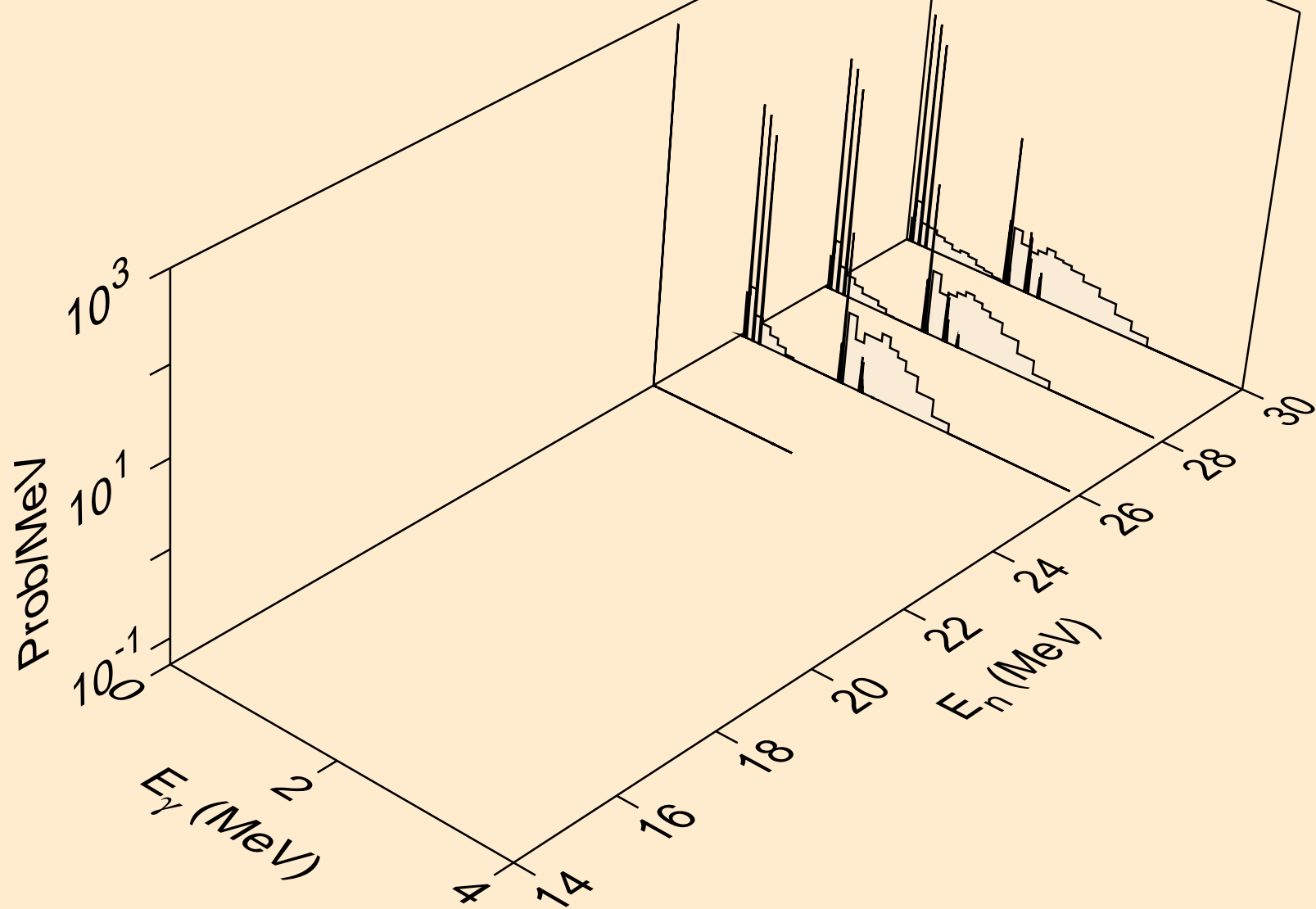
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Photon emission for (n,he3)



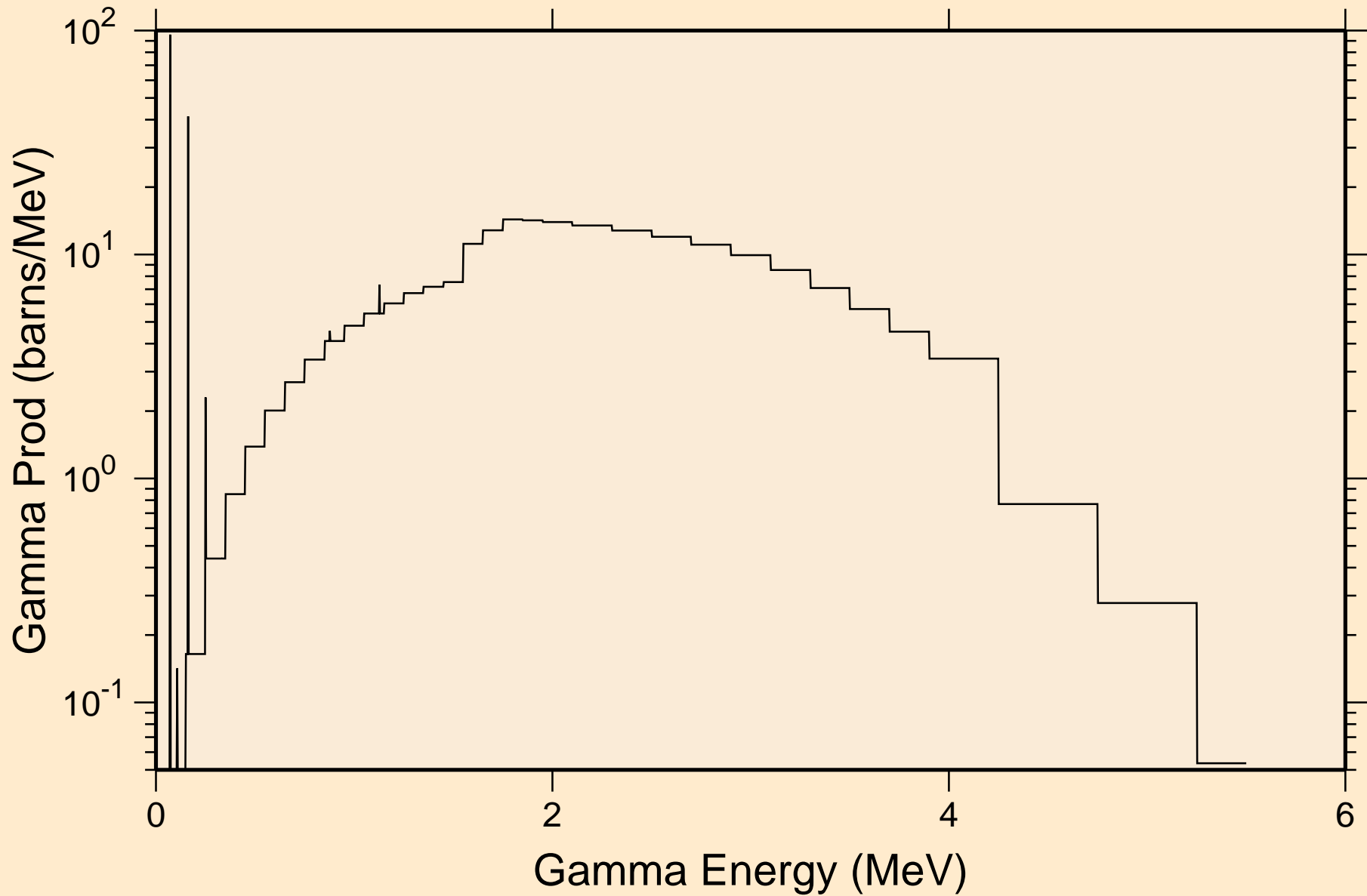
SM159 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,a)



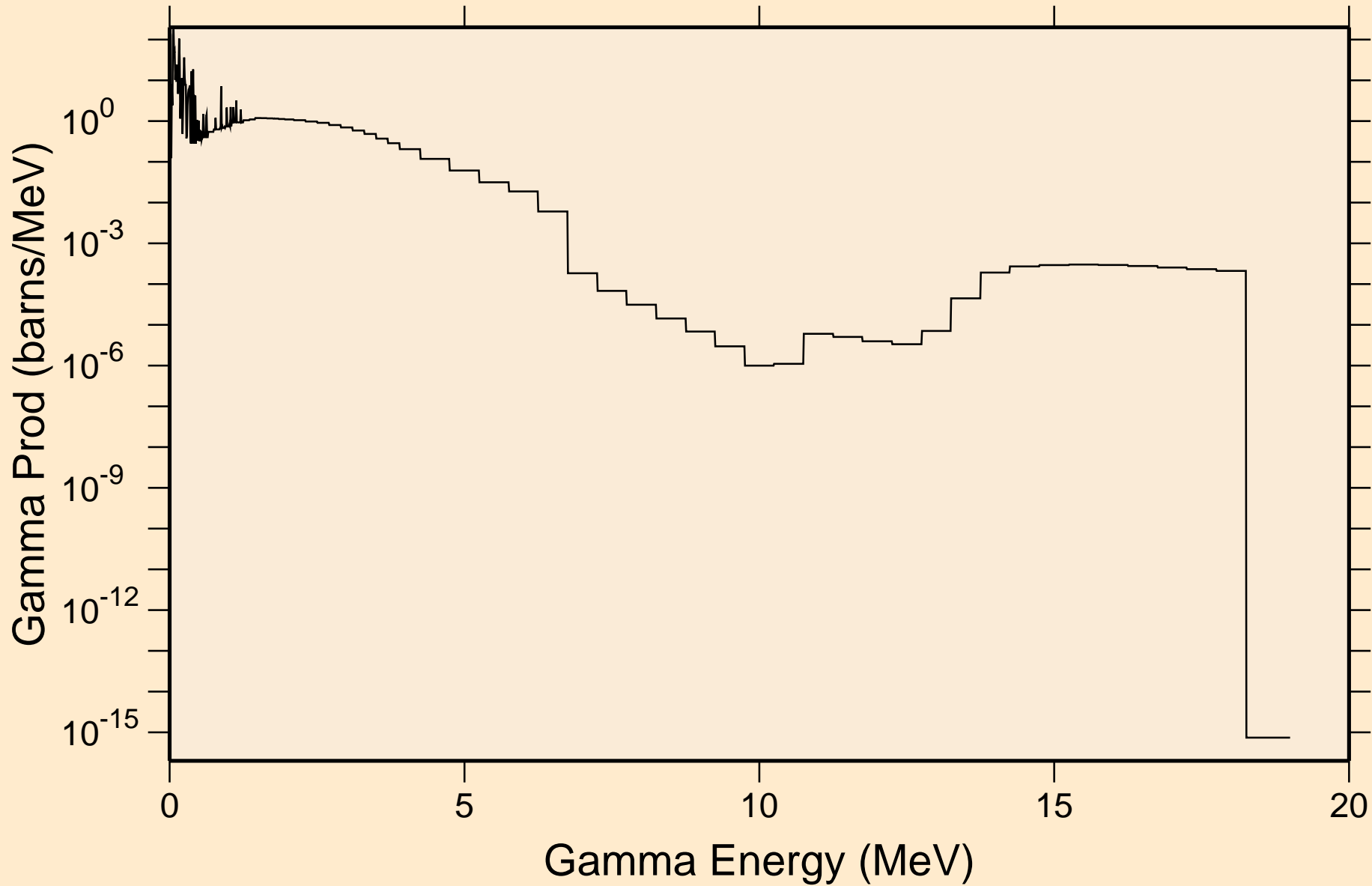
SM159 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2p)



SM159 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
thermal capture photon spectrum

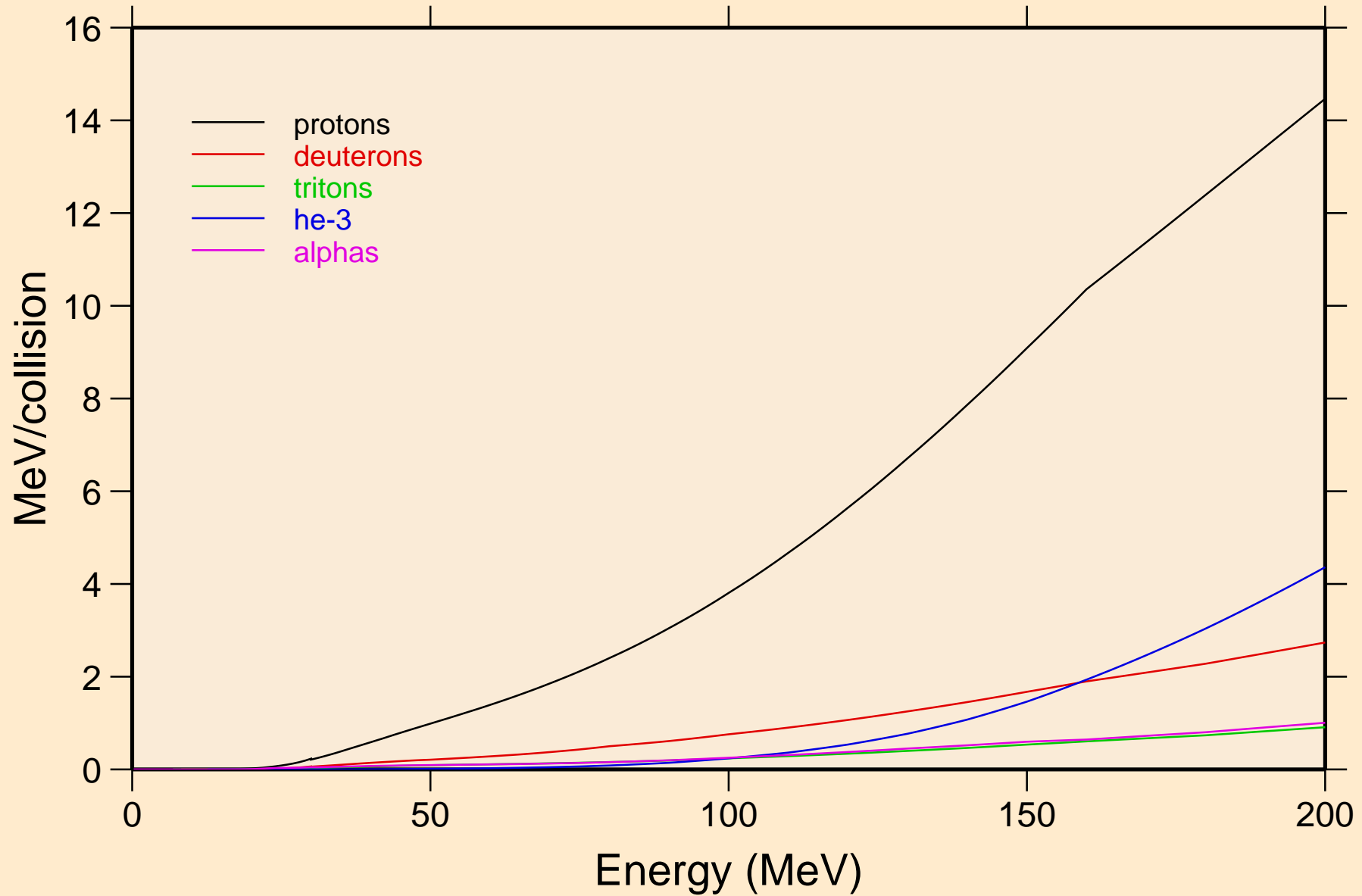


SM159 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
14 MeV photon spectrum



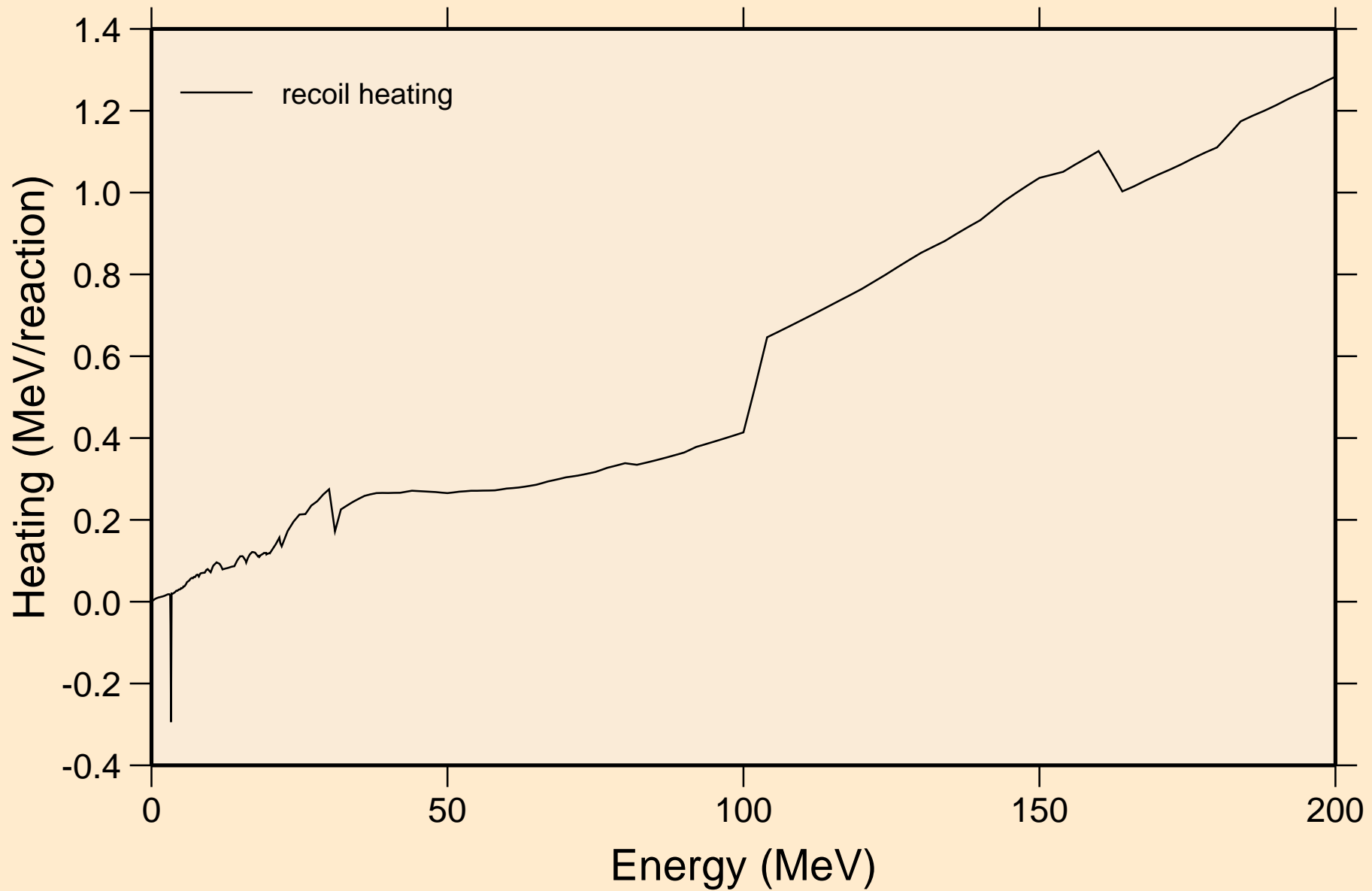
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## Particle heating contributions

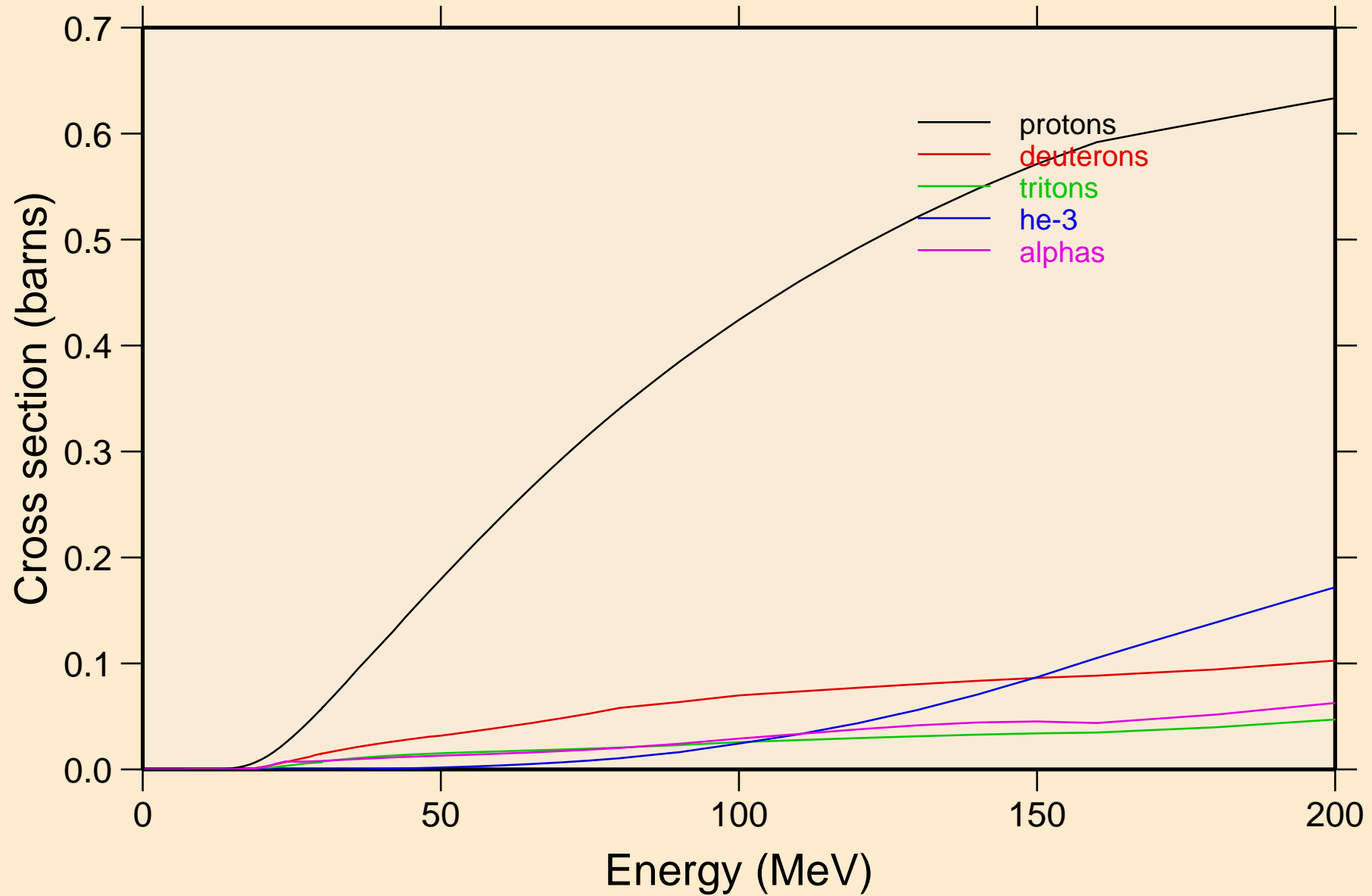


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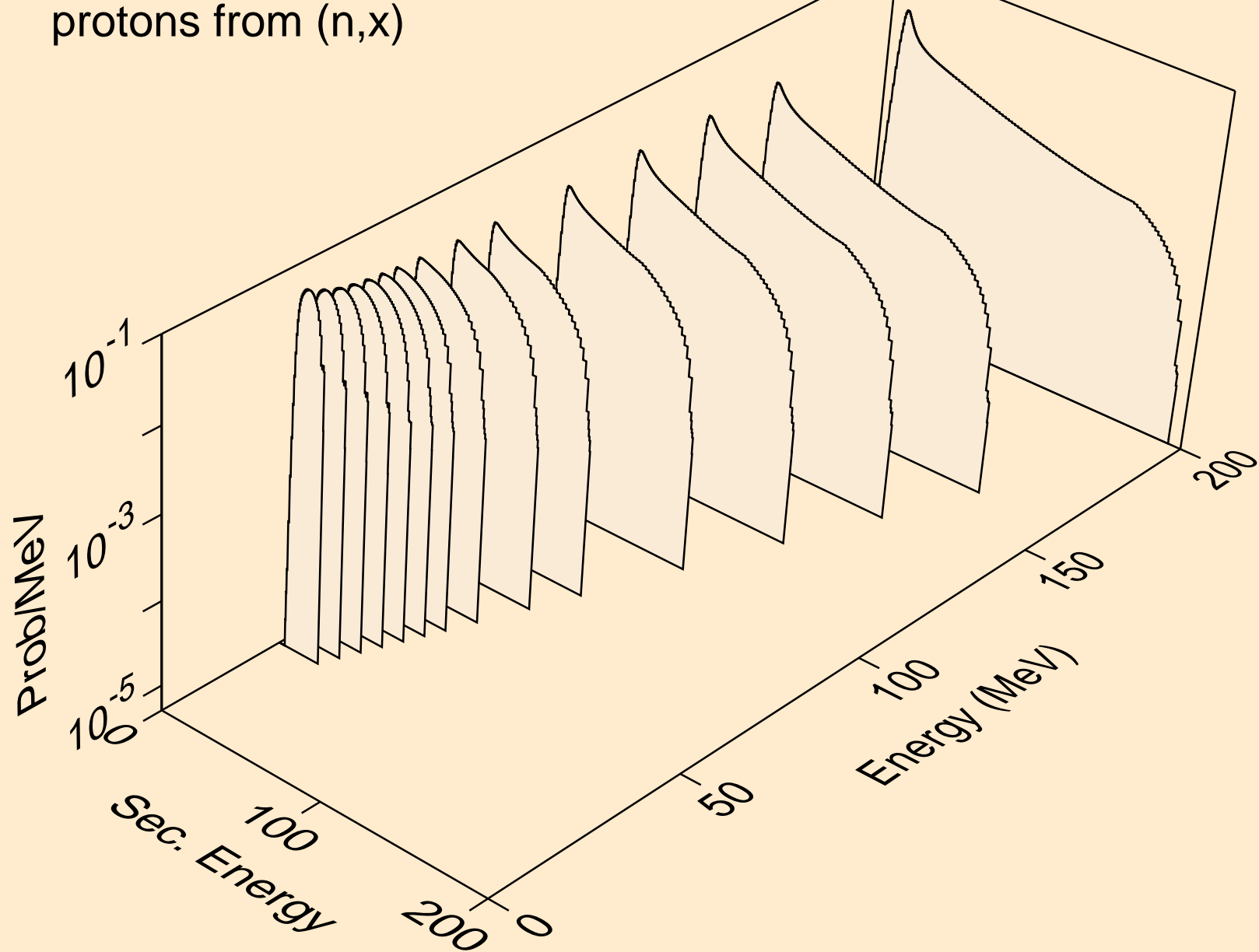
## Recoil Heating



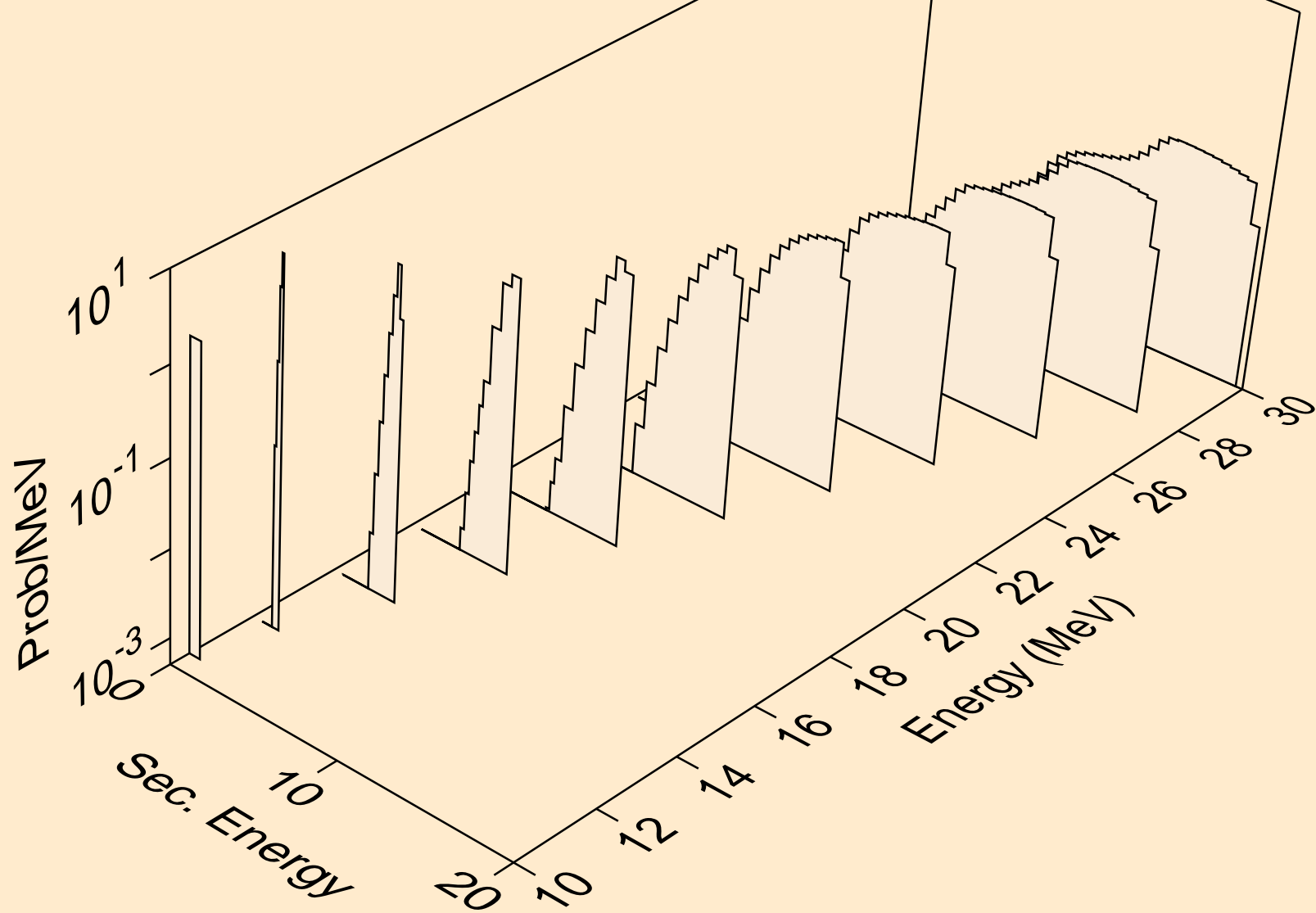
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Particle production cross sections



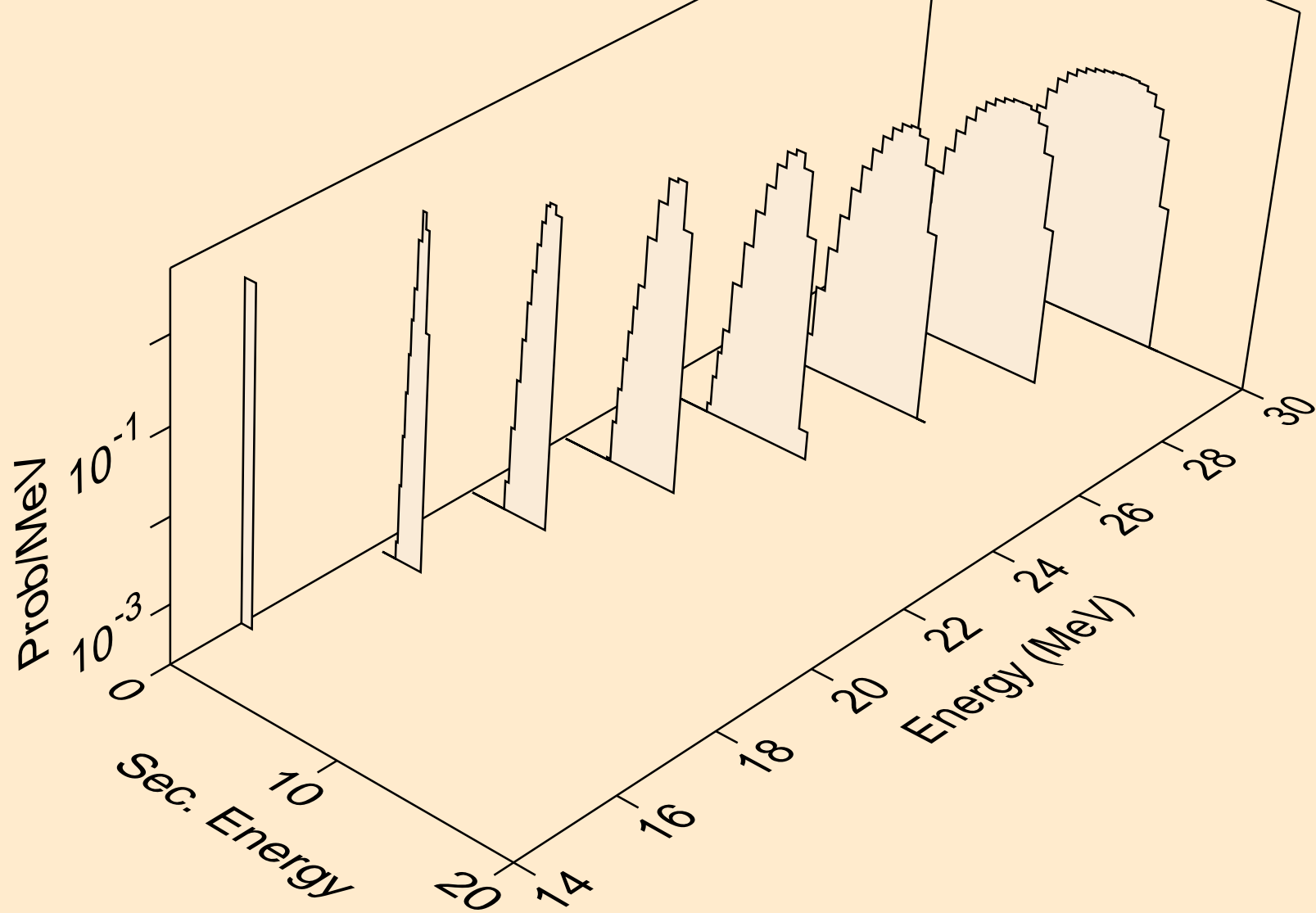
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protons from (n,x)



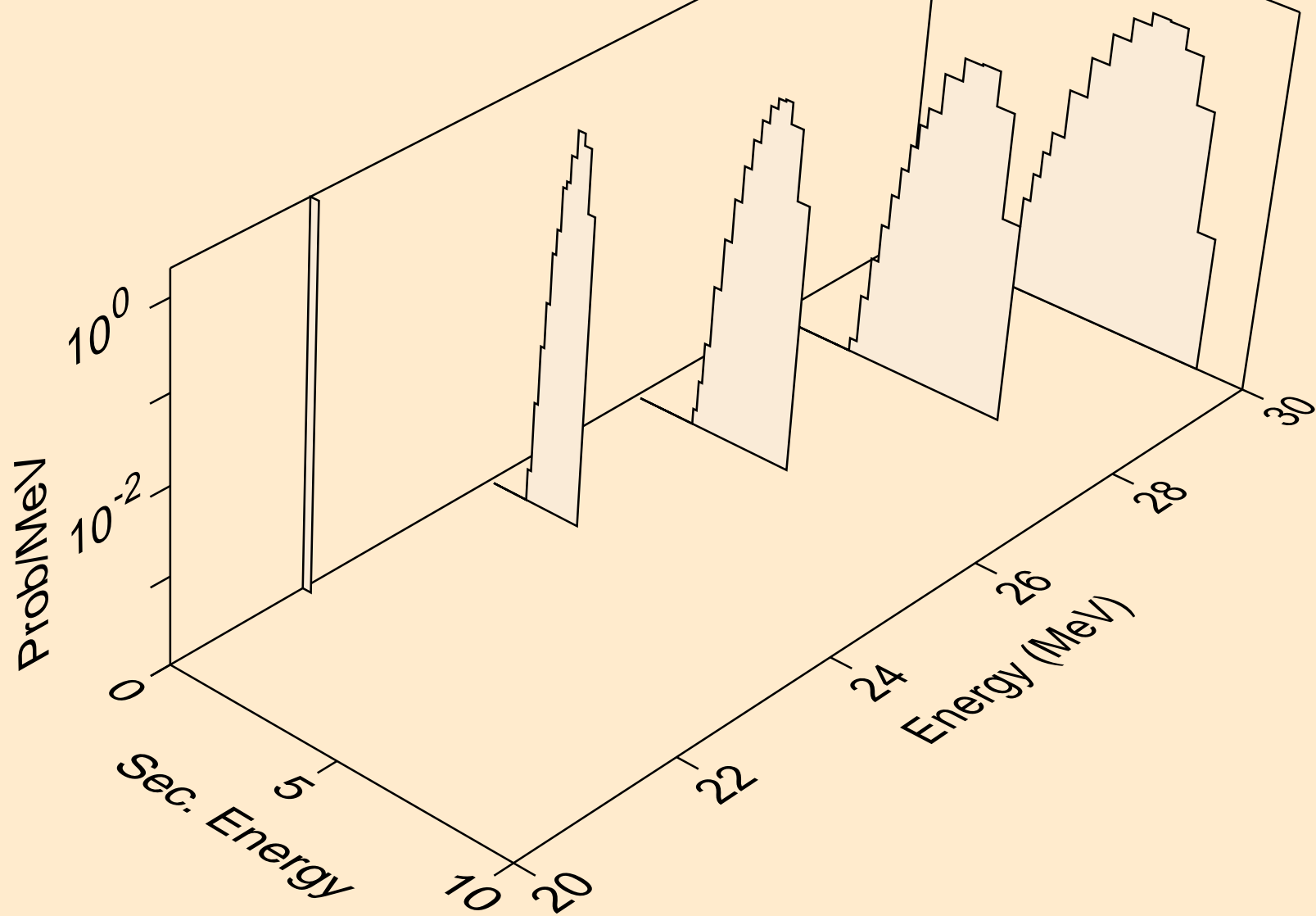
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protons from (n,n\*)p



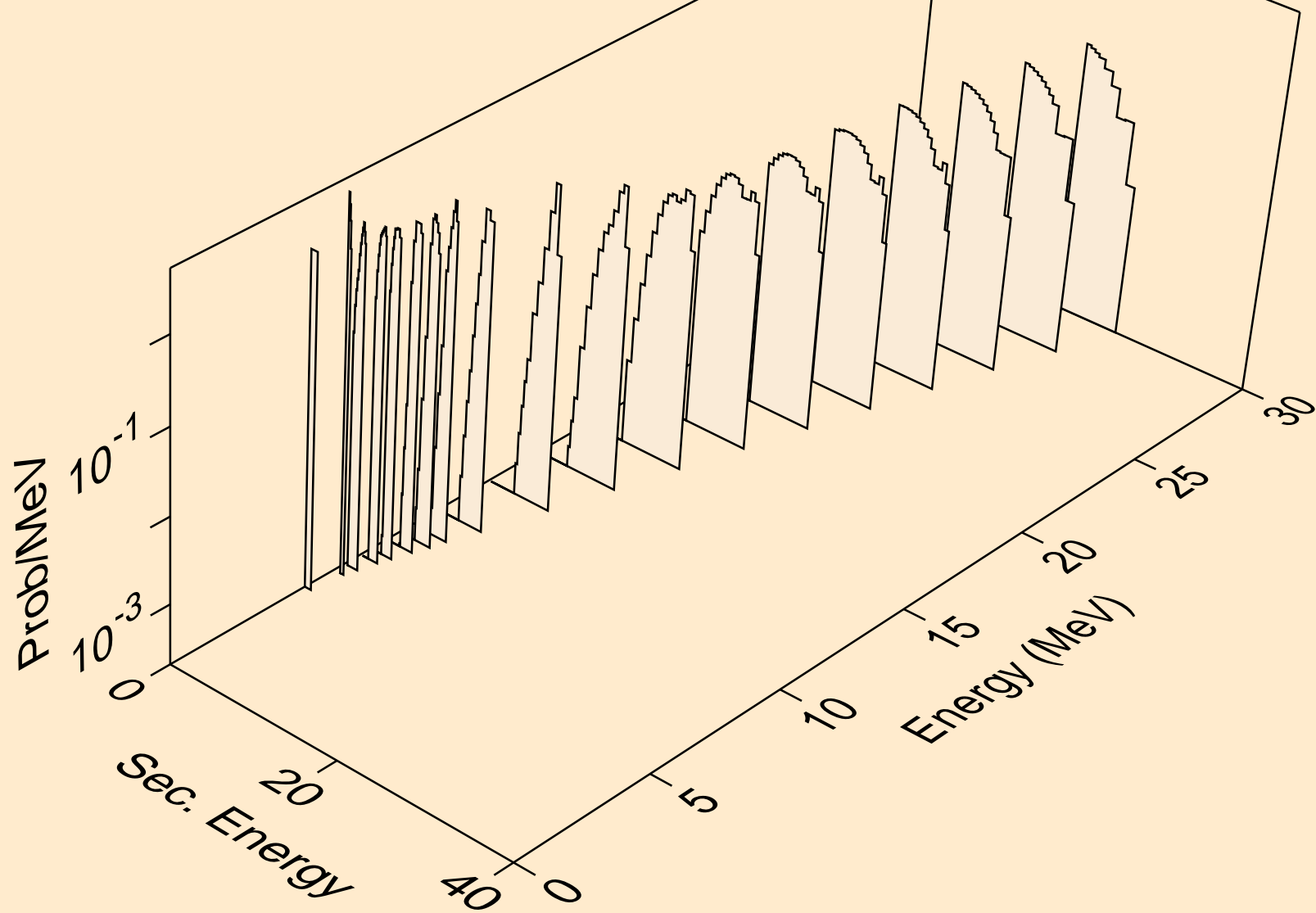
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protons from (n,2np)



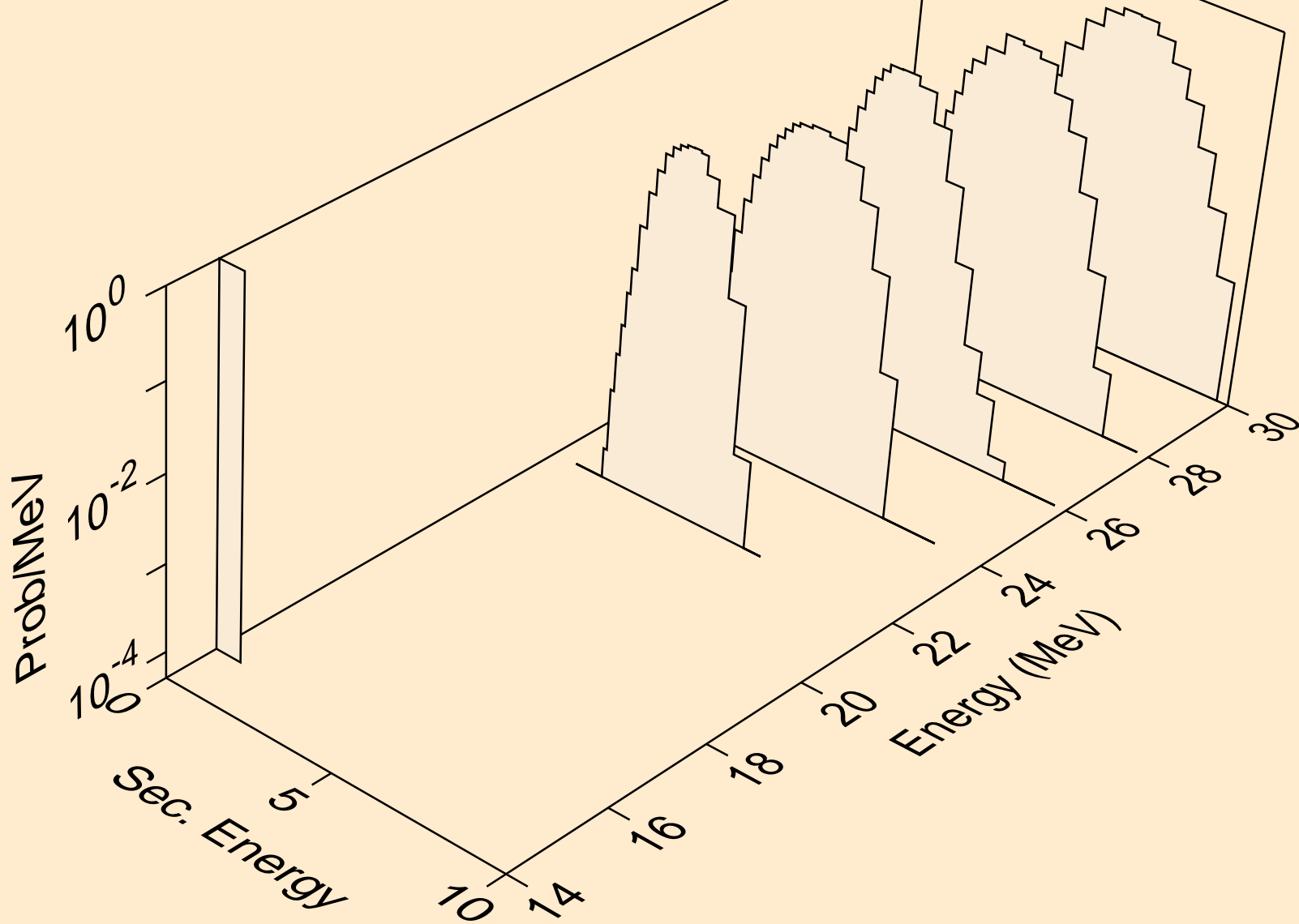
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protons from (n,3np)



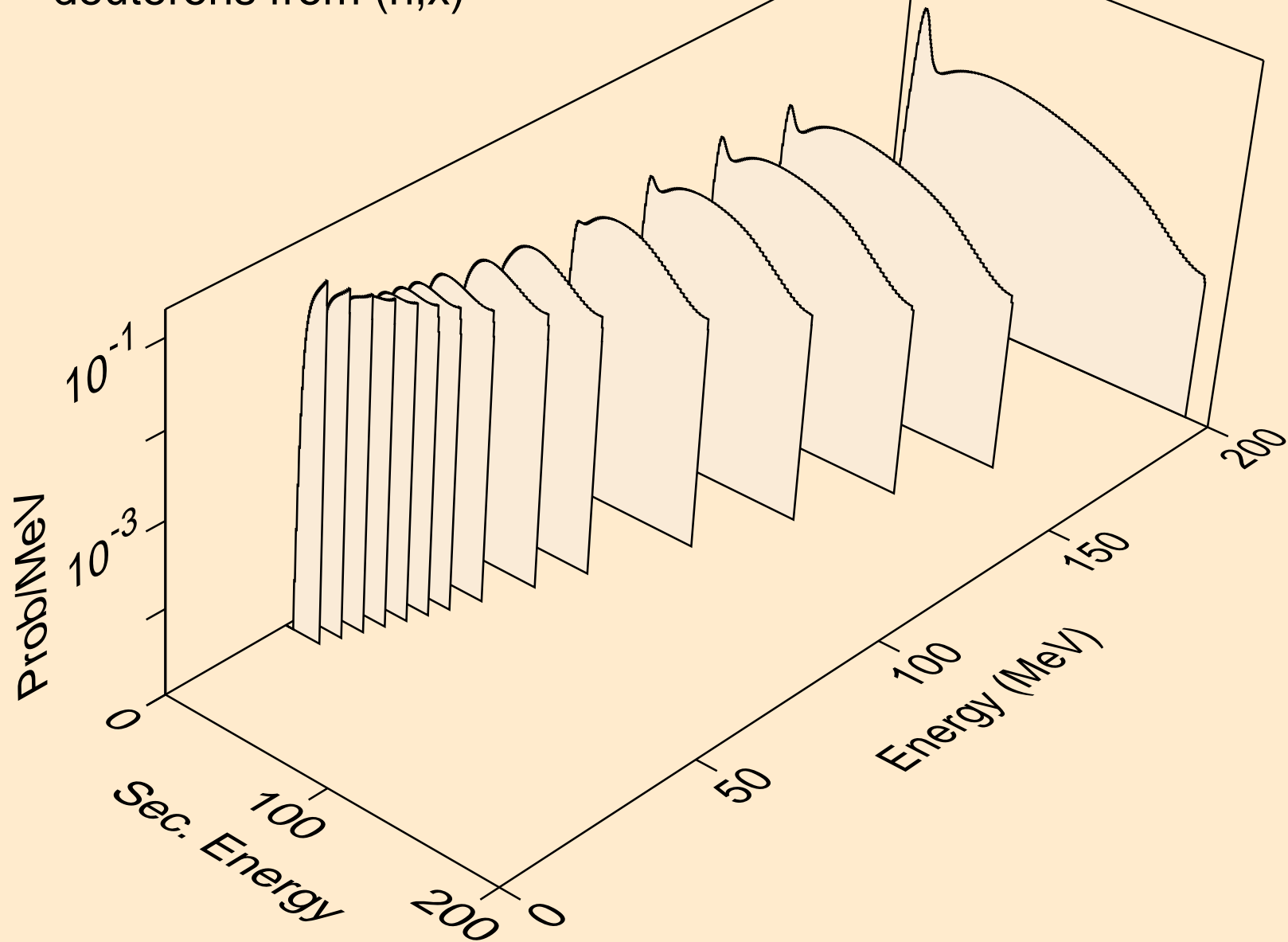
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protons from (n,p)



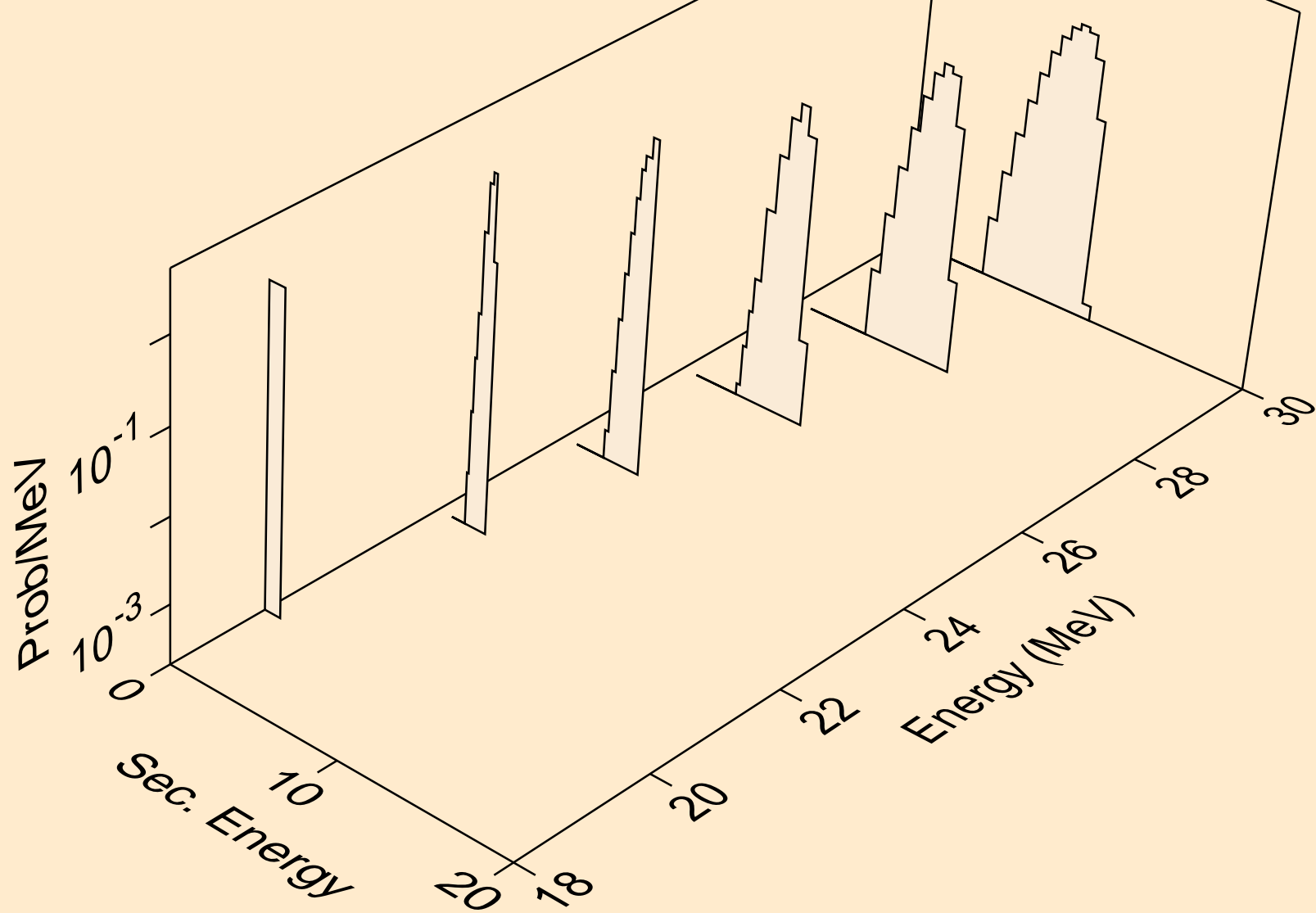
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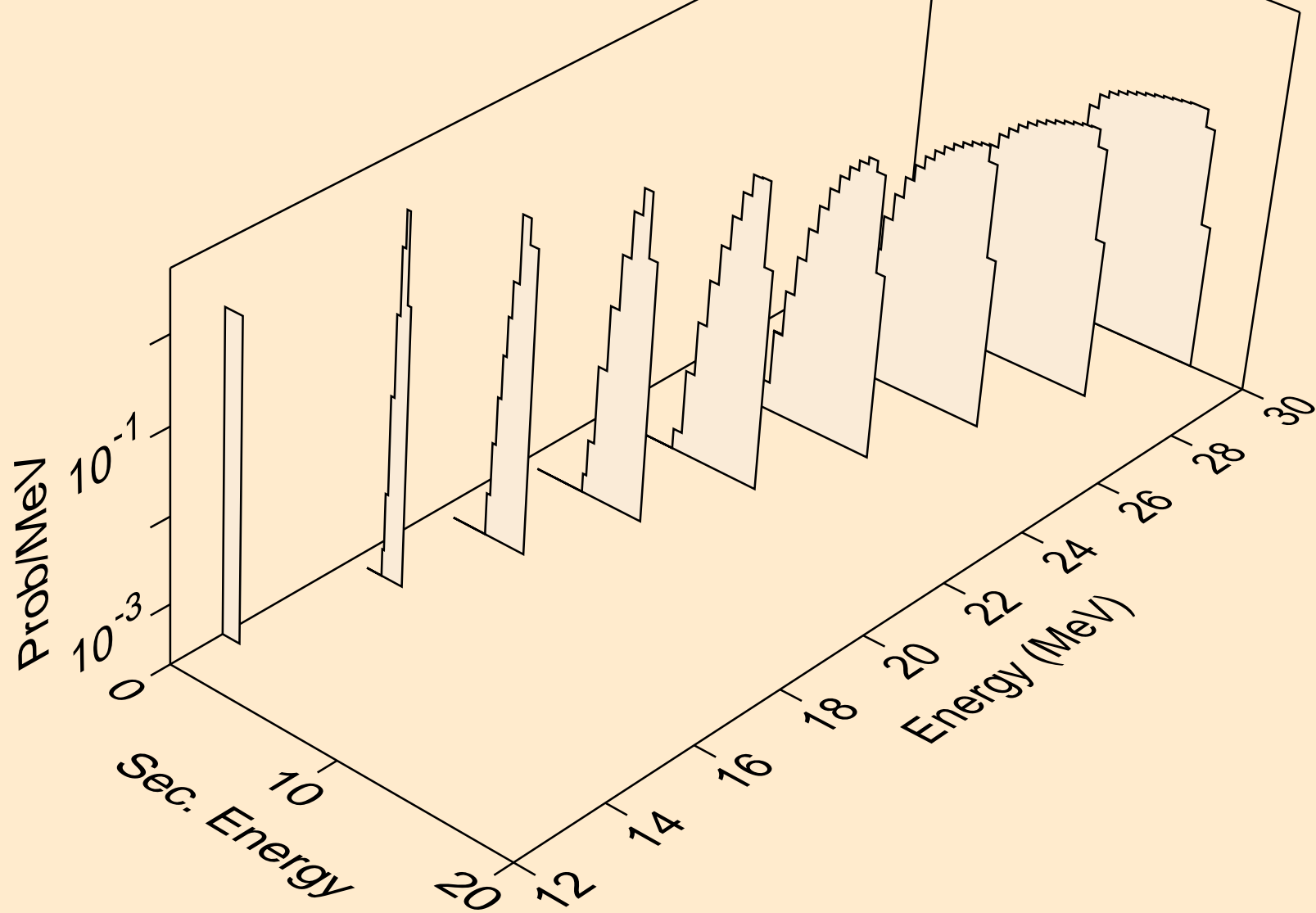
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deuterons from (n,x)



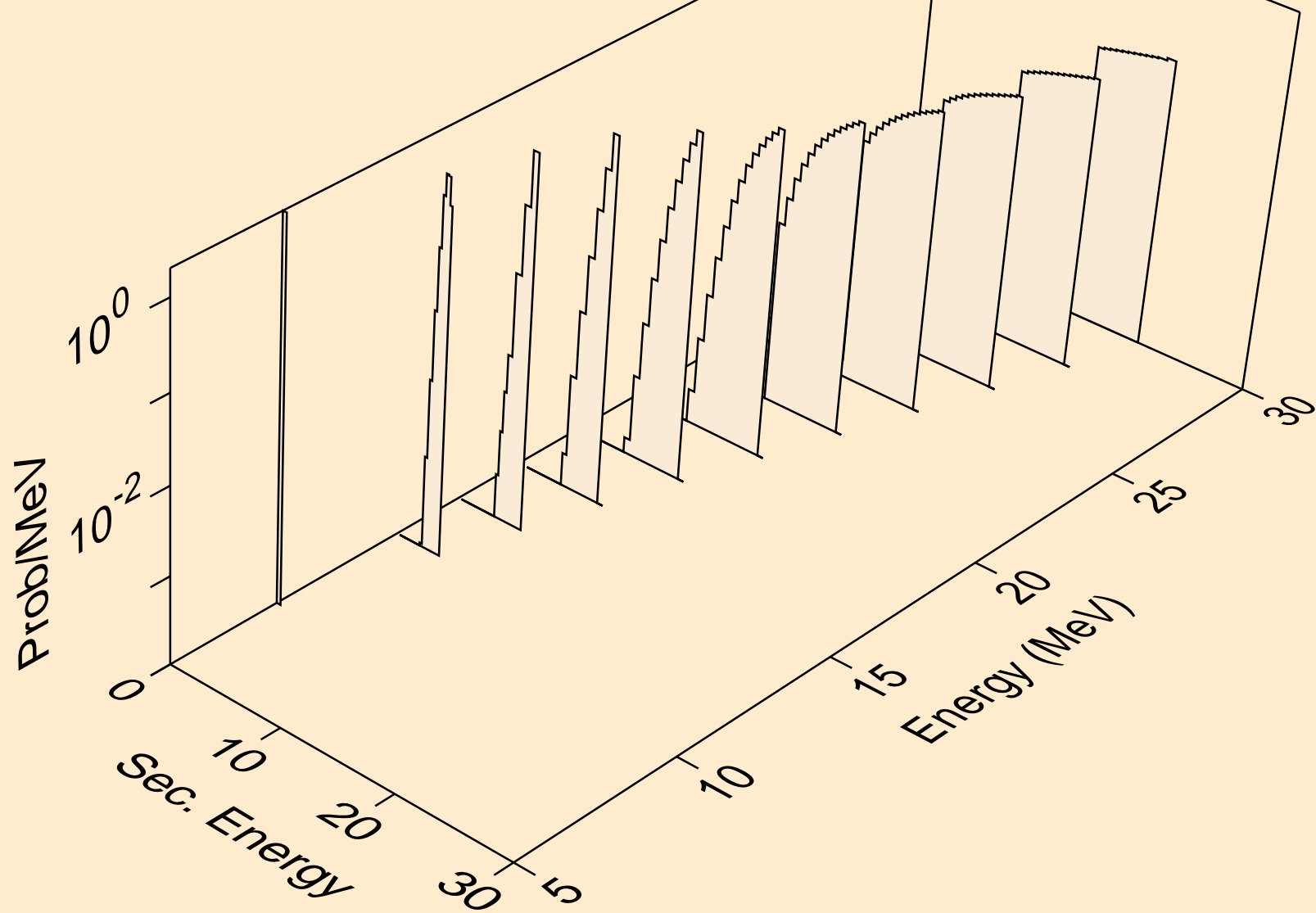
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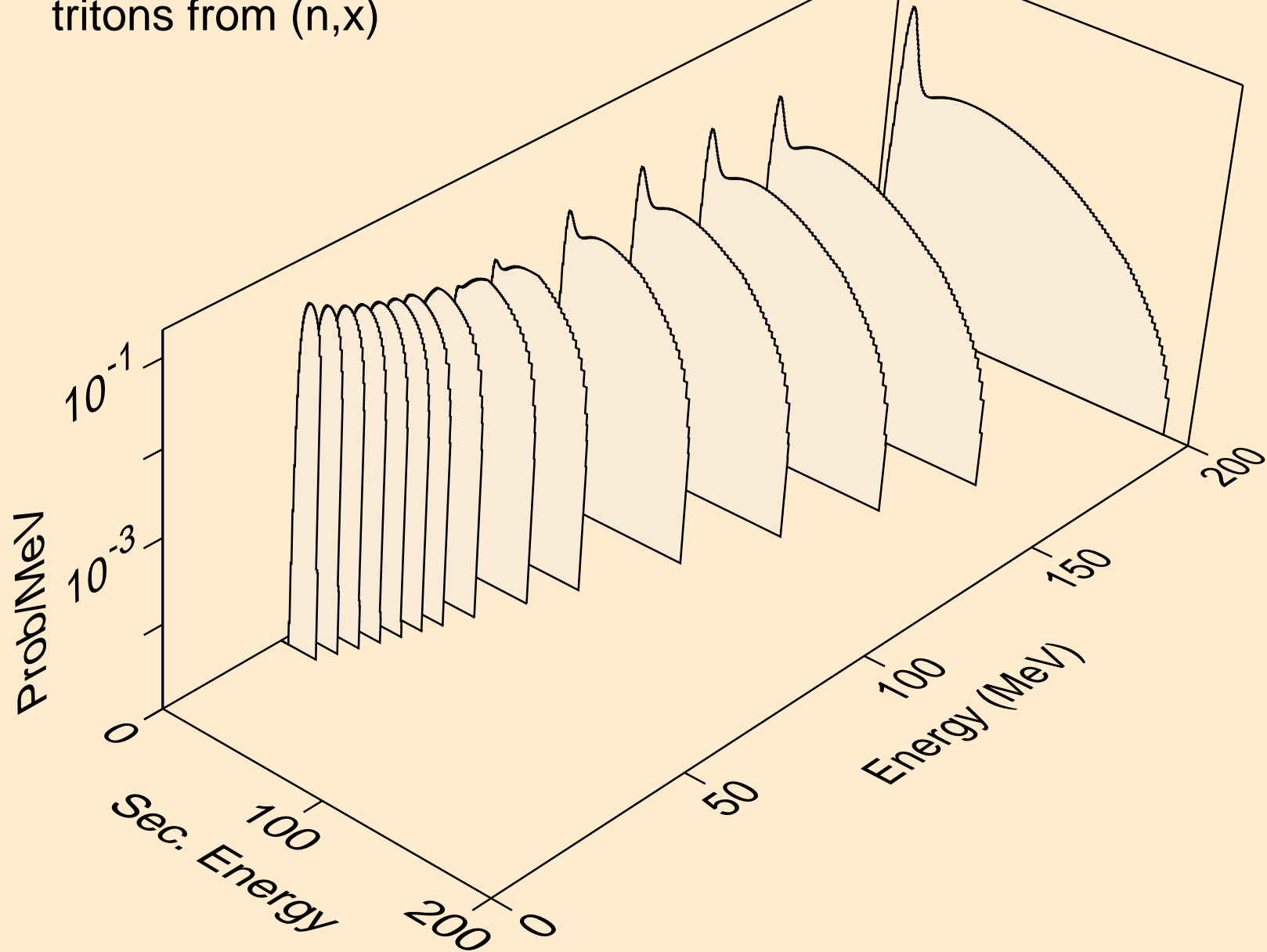
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deuterons from (n,n\*)d



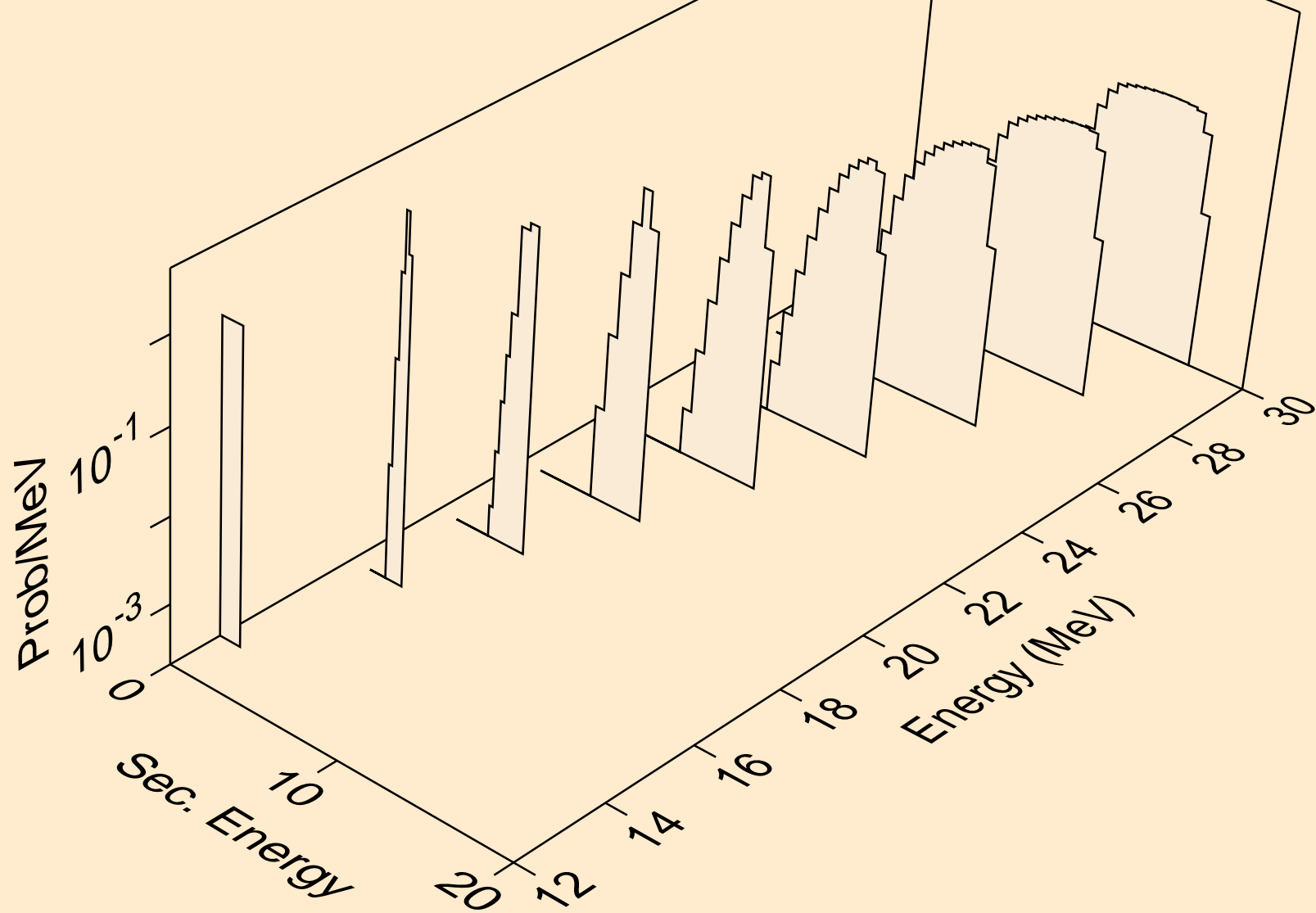
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deuterons from (n,d)



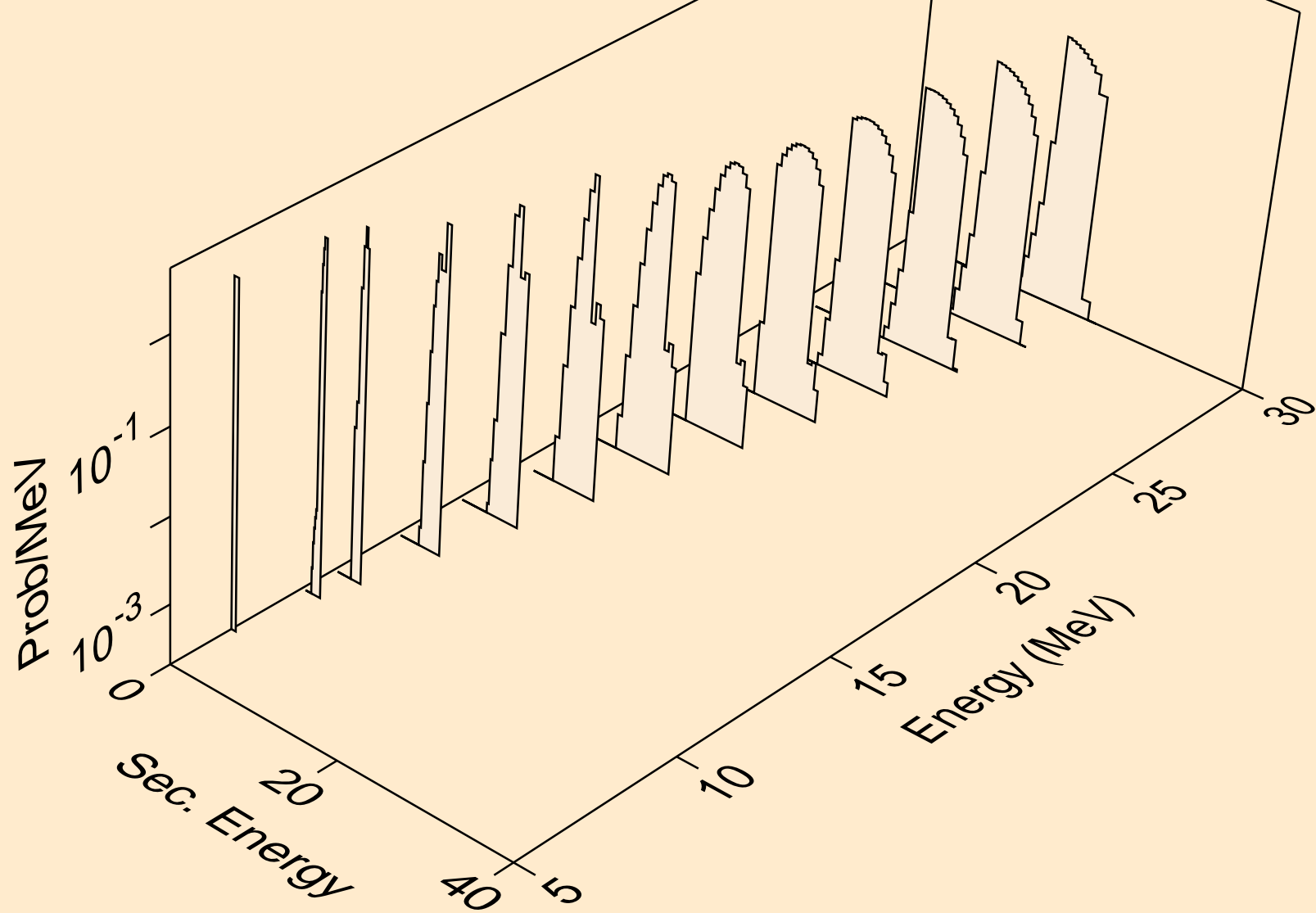
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tritons from (n,x)



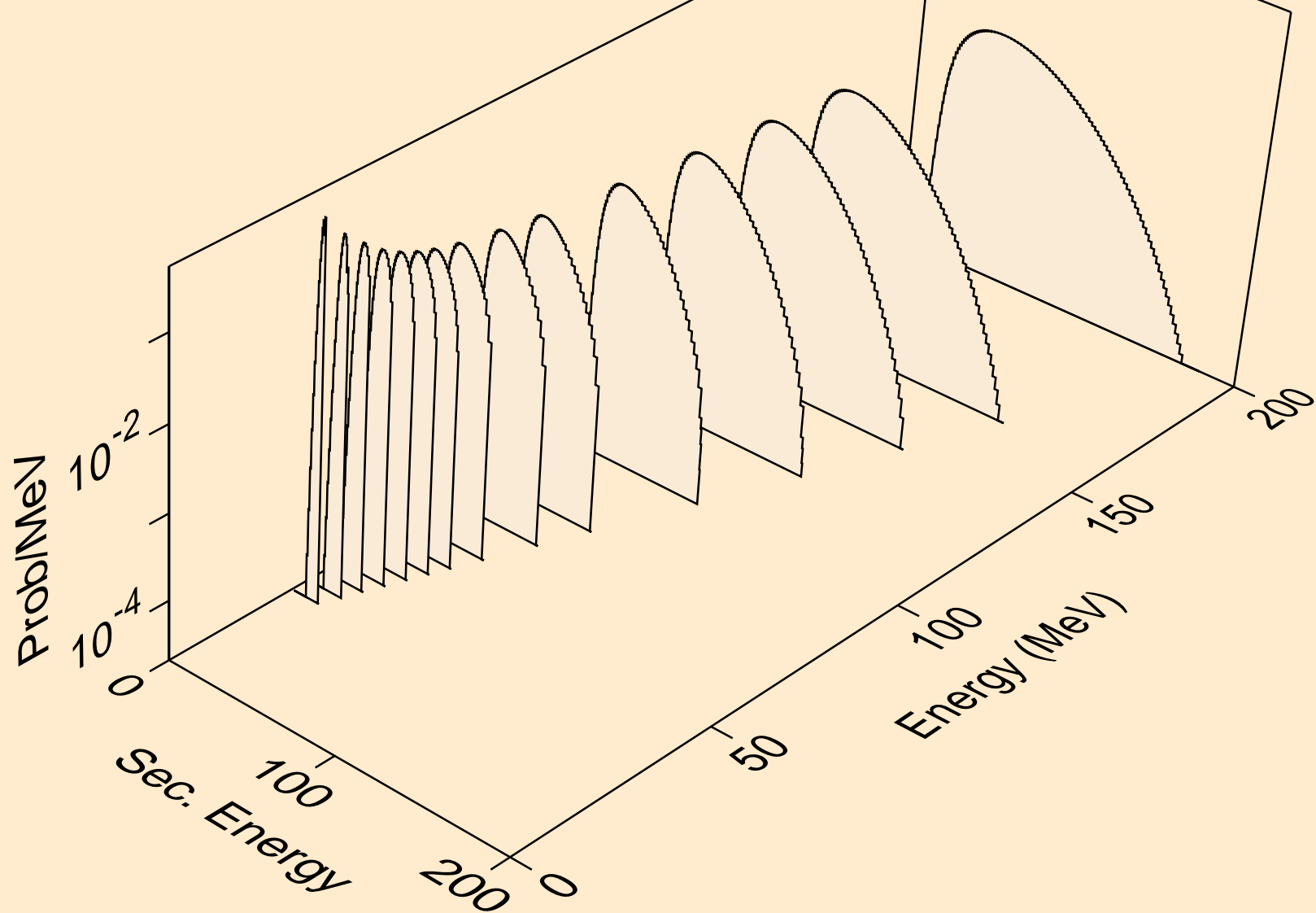
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tritons from (n,n\*)t



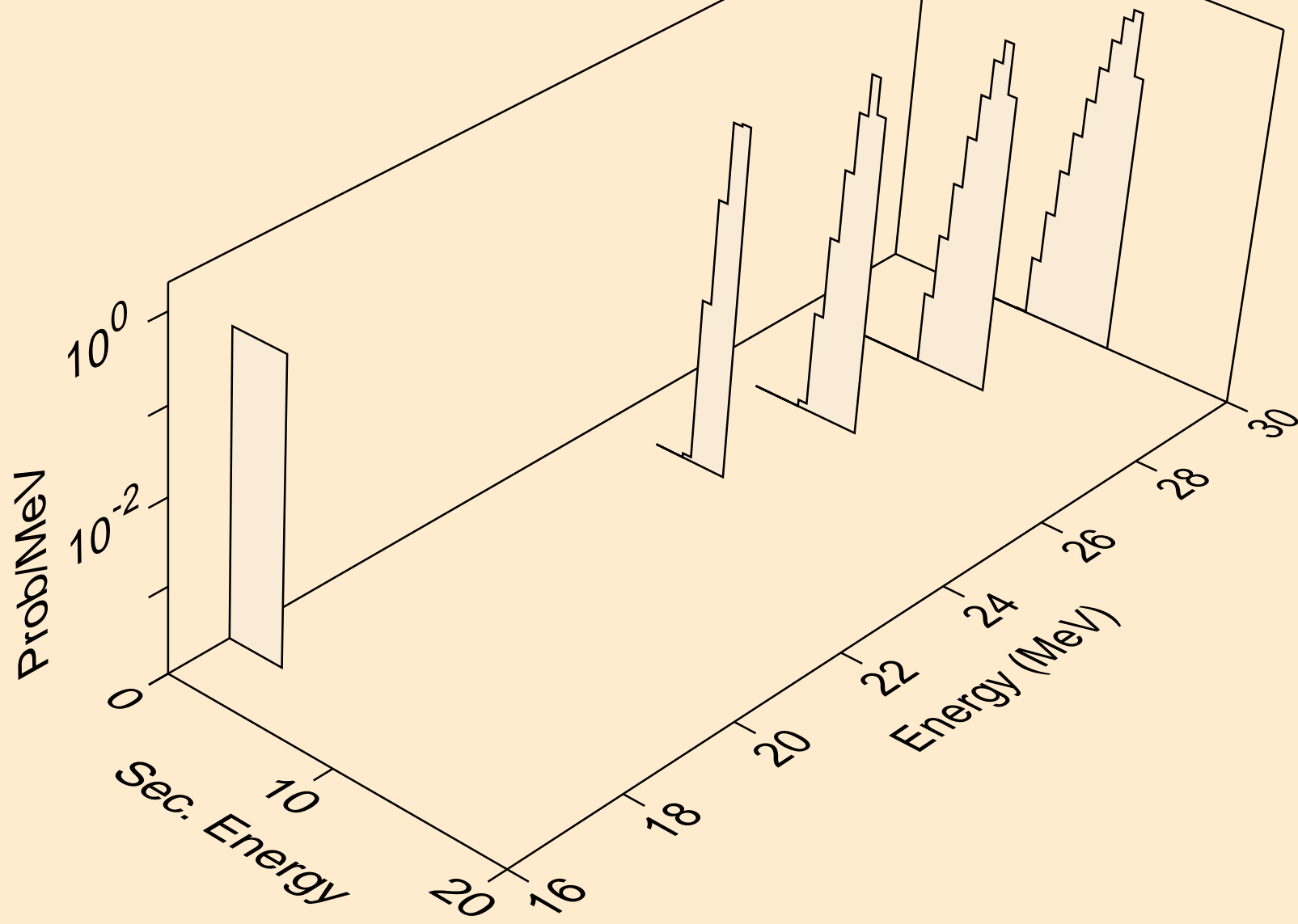
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tritons from (n,t)



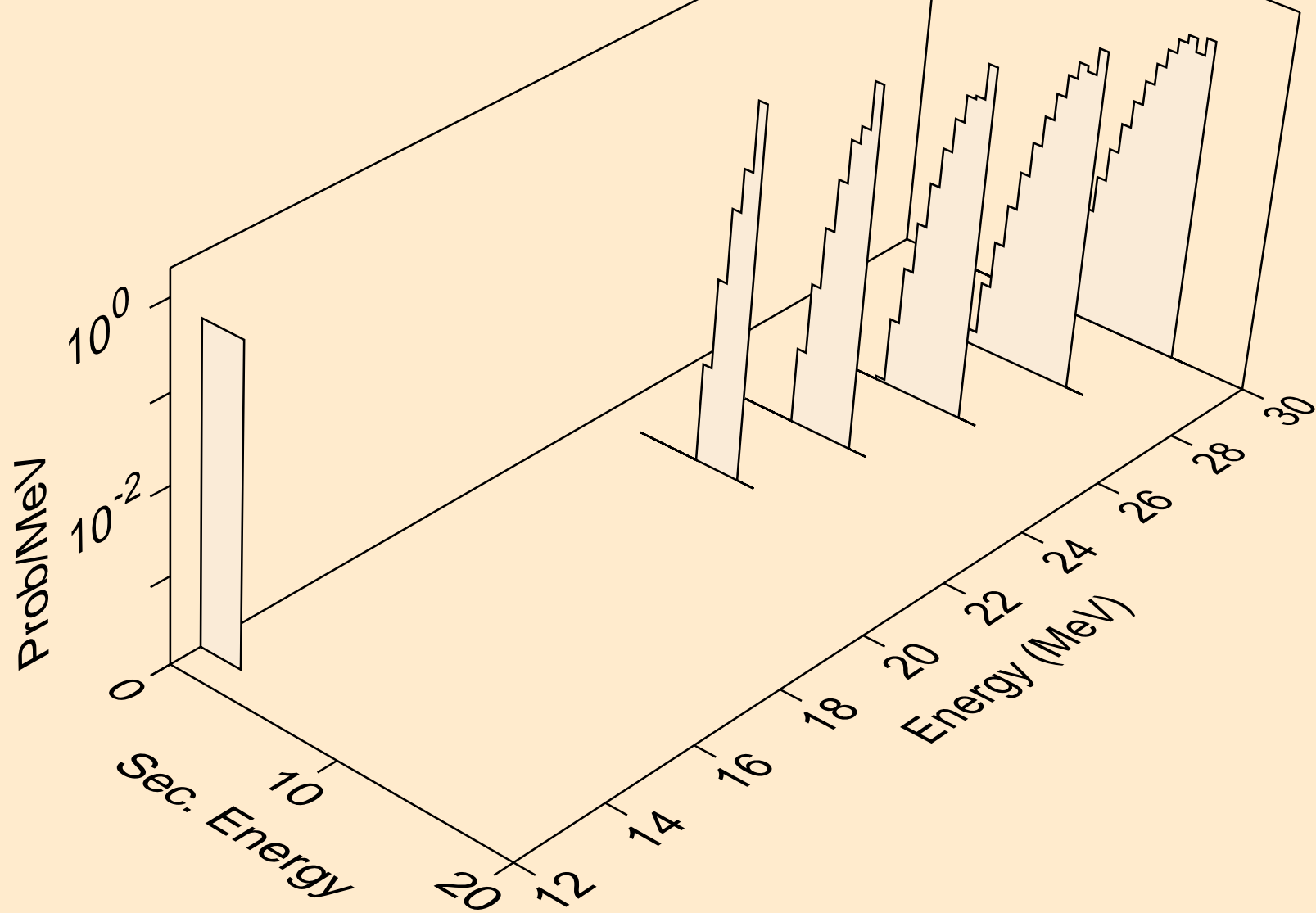
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he3s from (n,x)



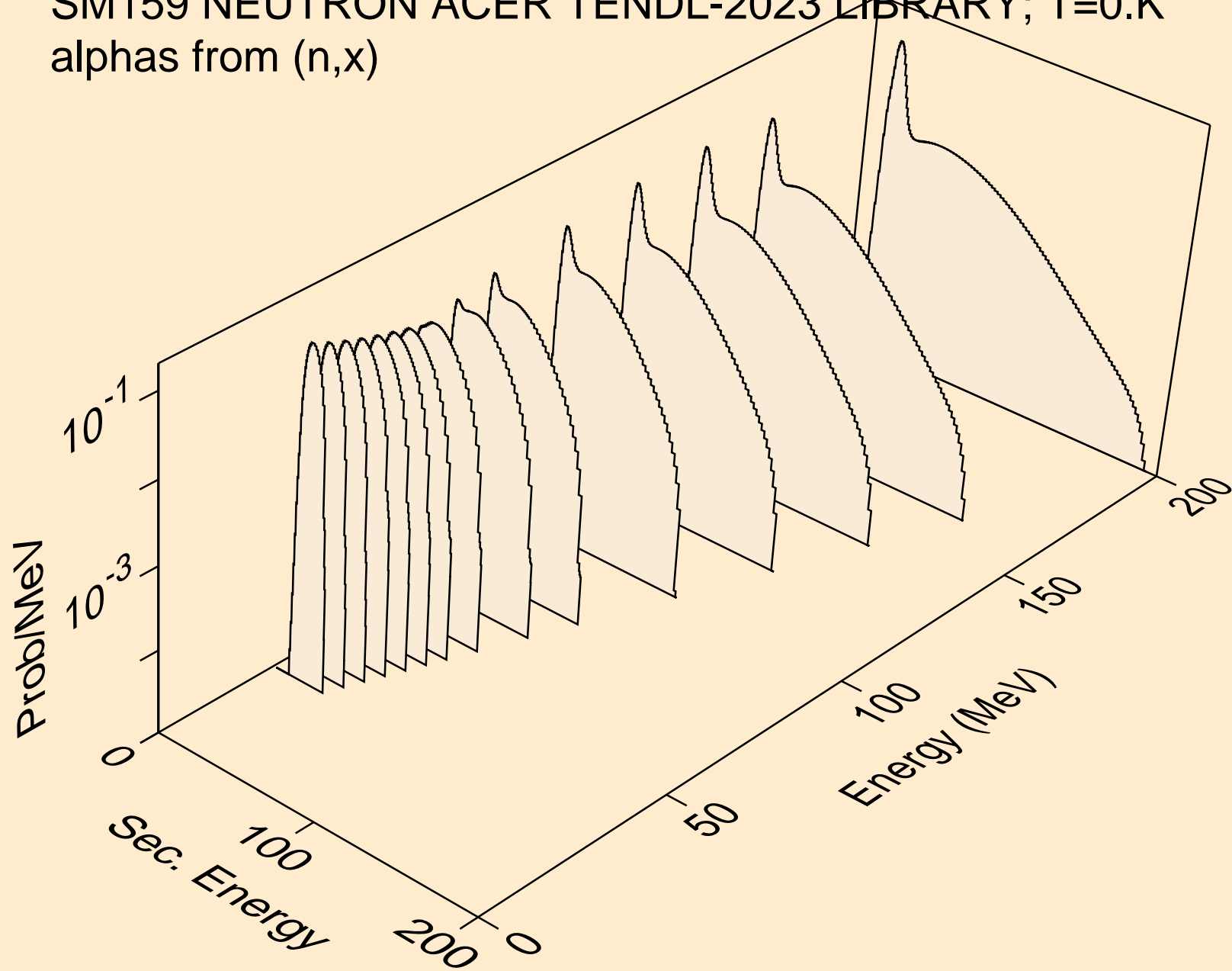
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he3s from (n,n\*)he3



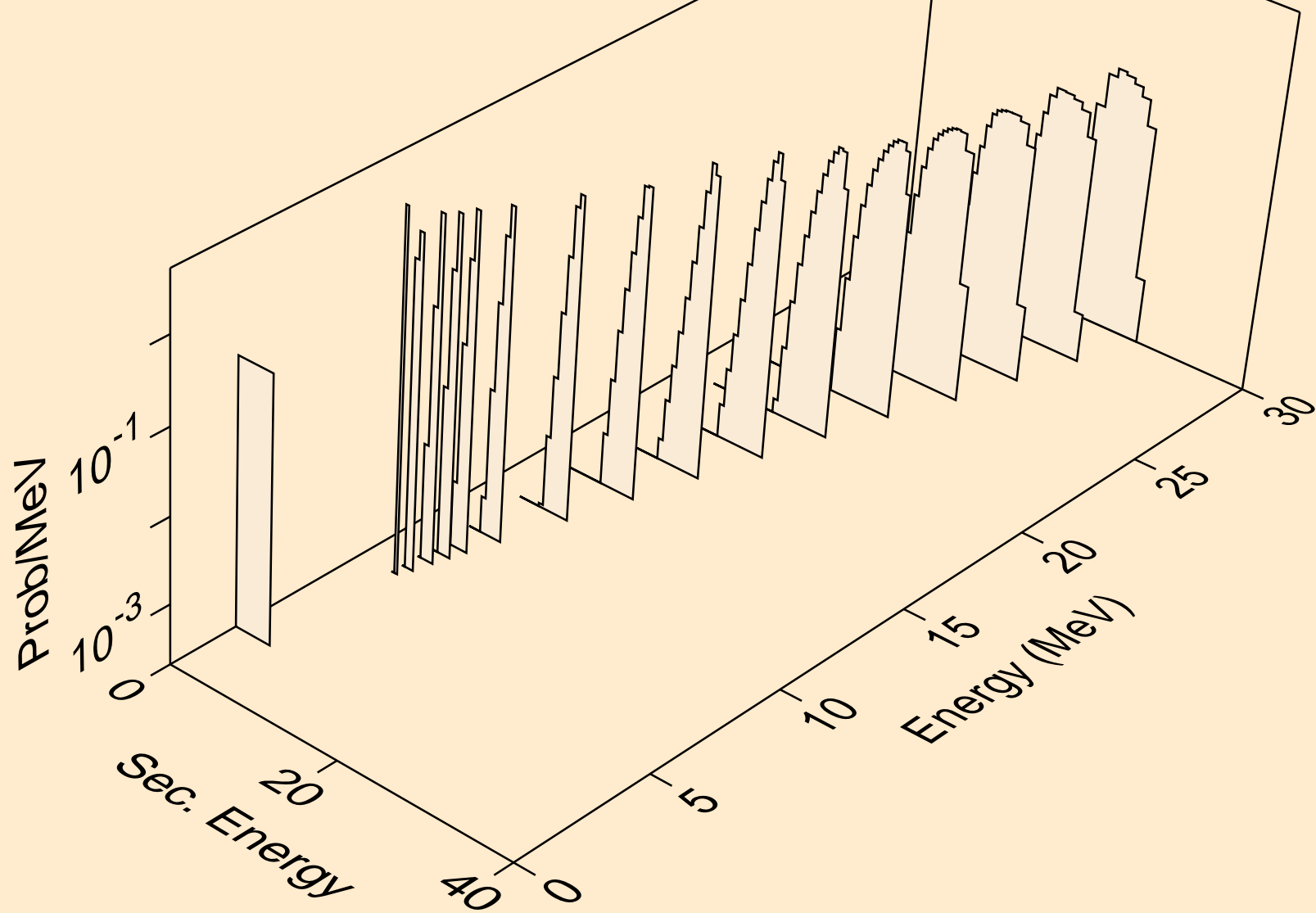
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he3s from (n,he3)



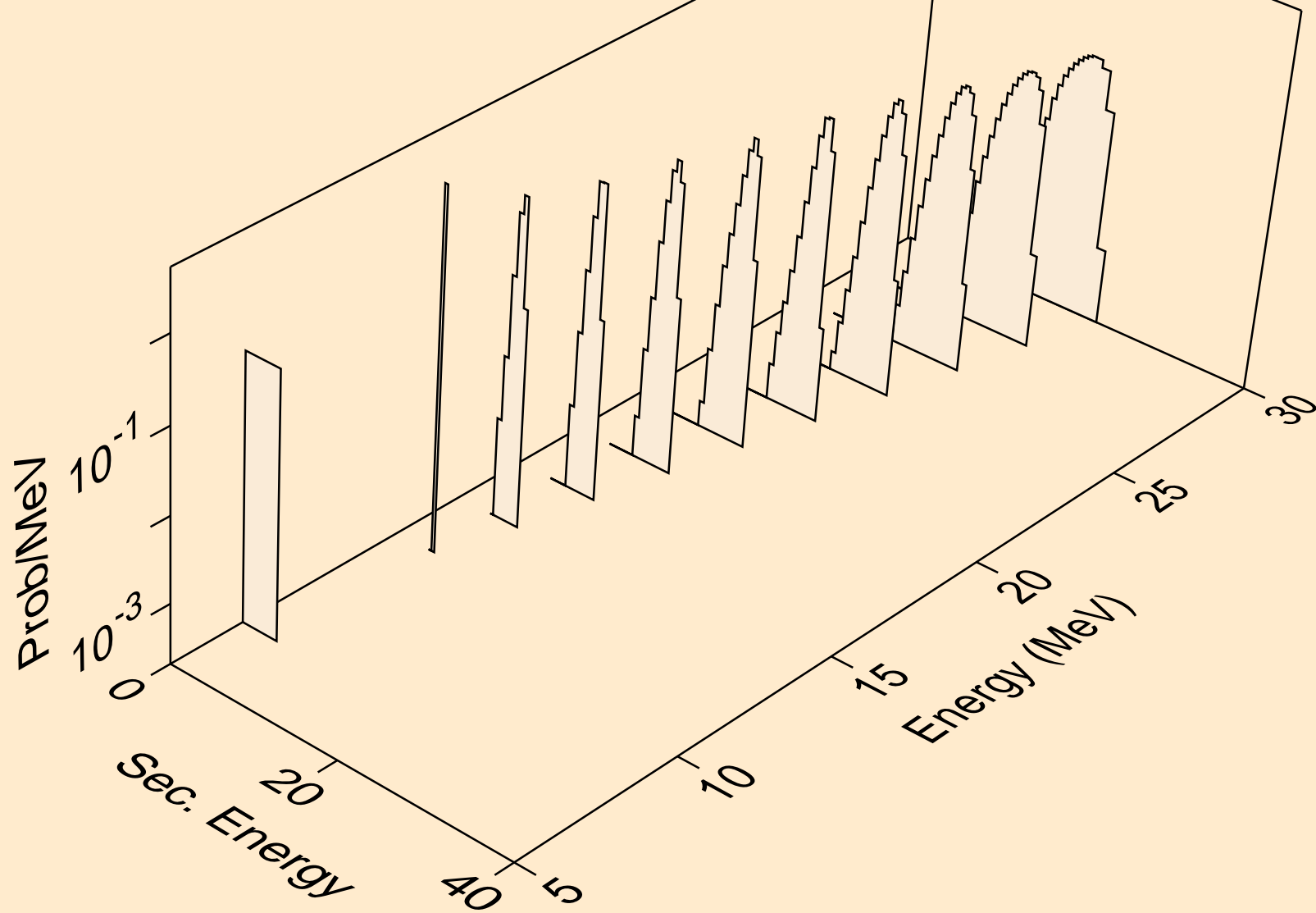
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alphas from (n,x)



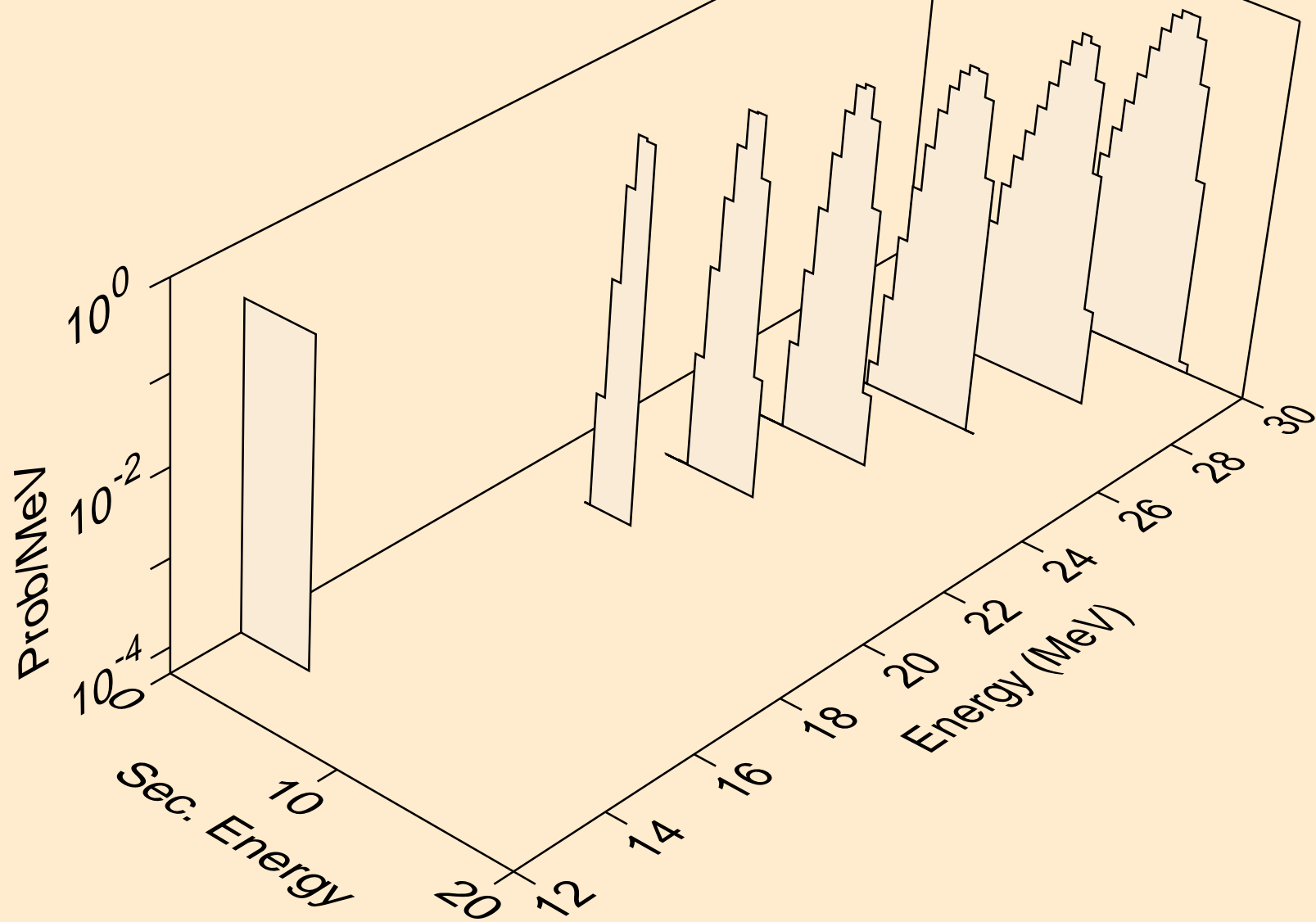
SM159 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,n\*)a



SM159 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,2n)a



SM159 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,3n)a



SM159 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,a)

