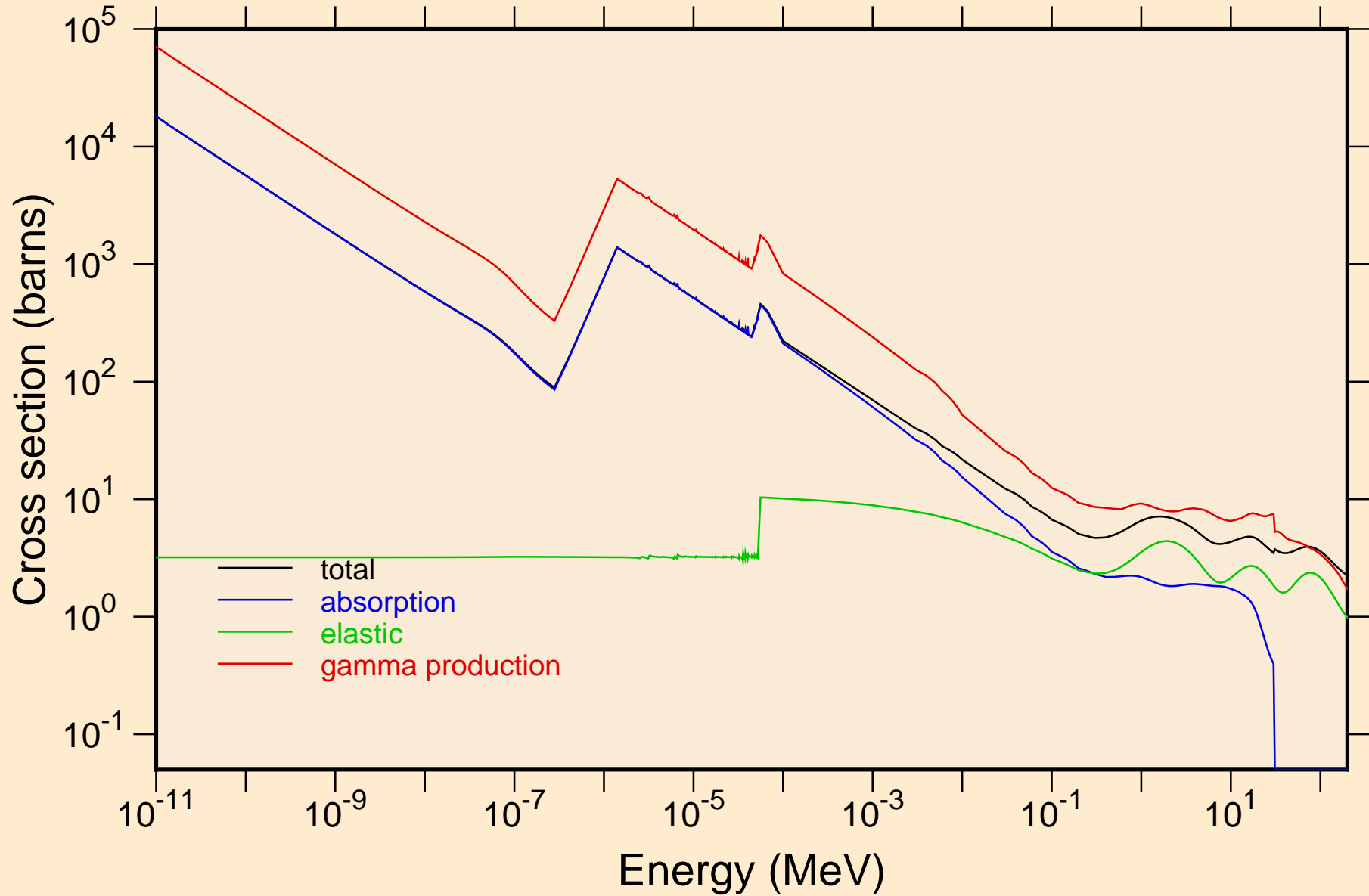
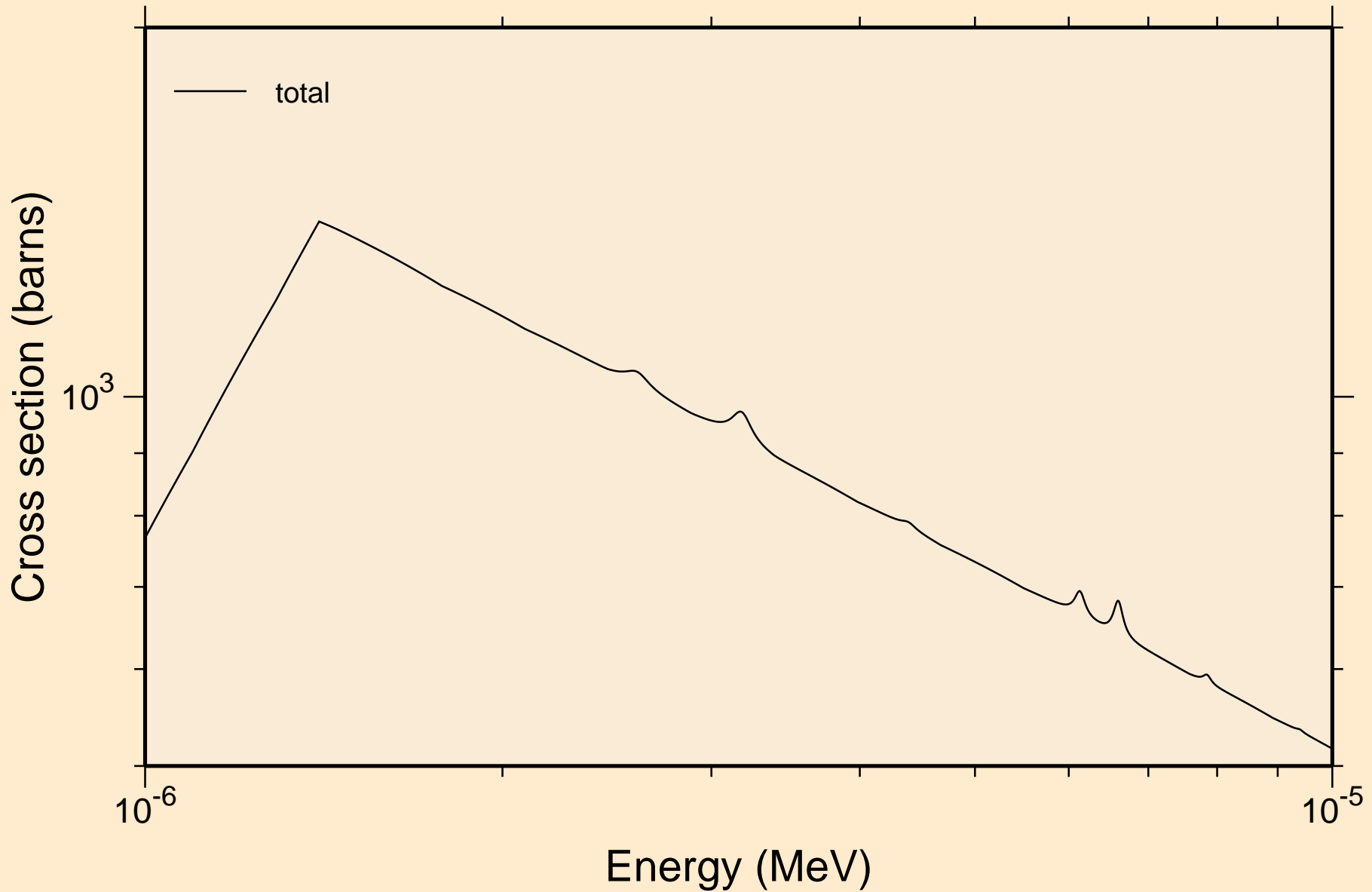


# GD138 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

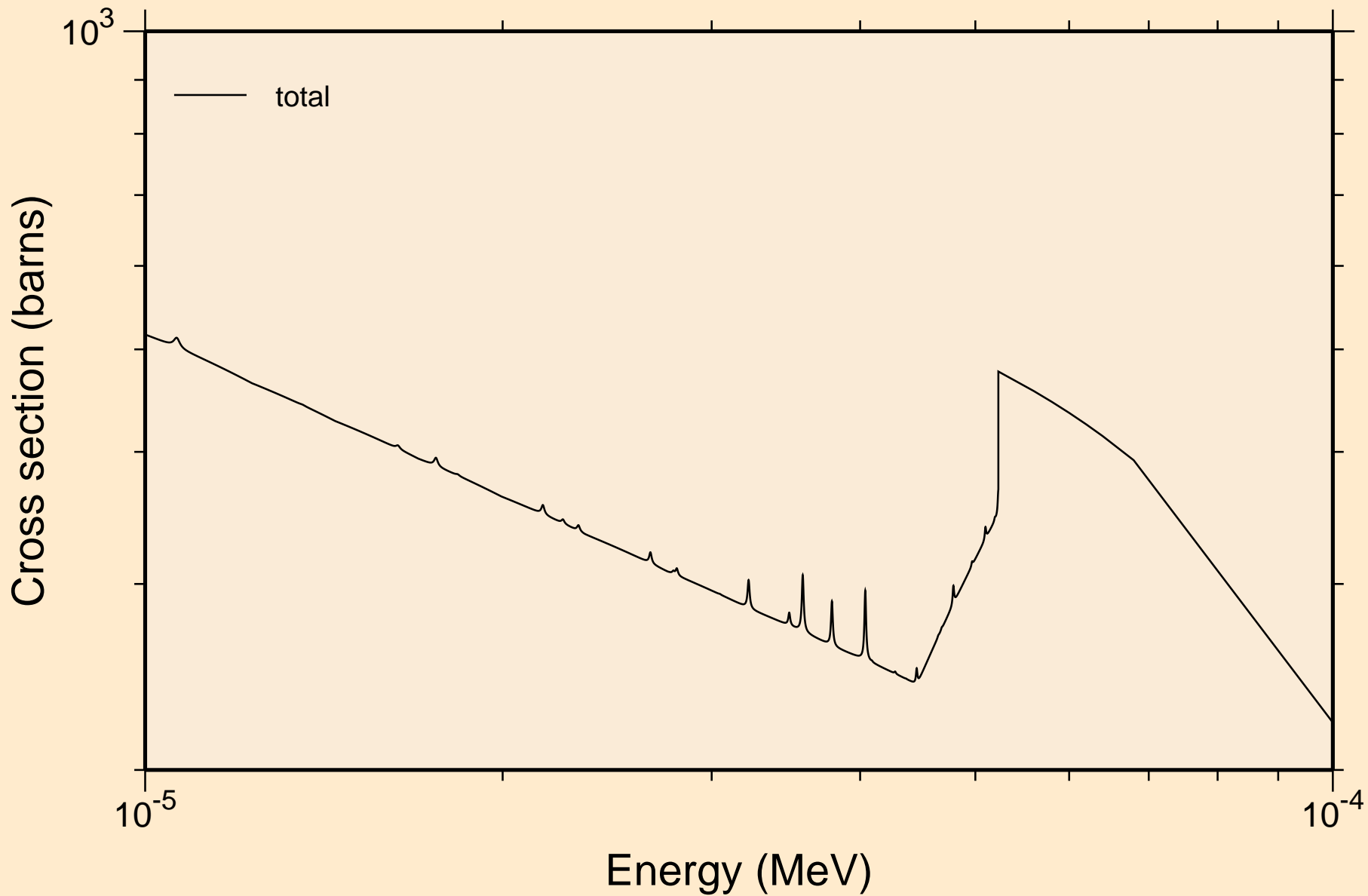
## Principal cross sections



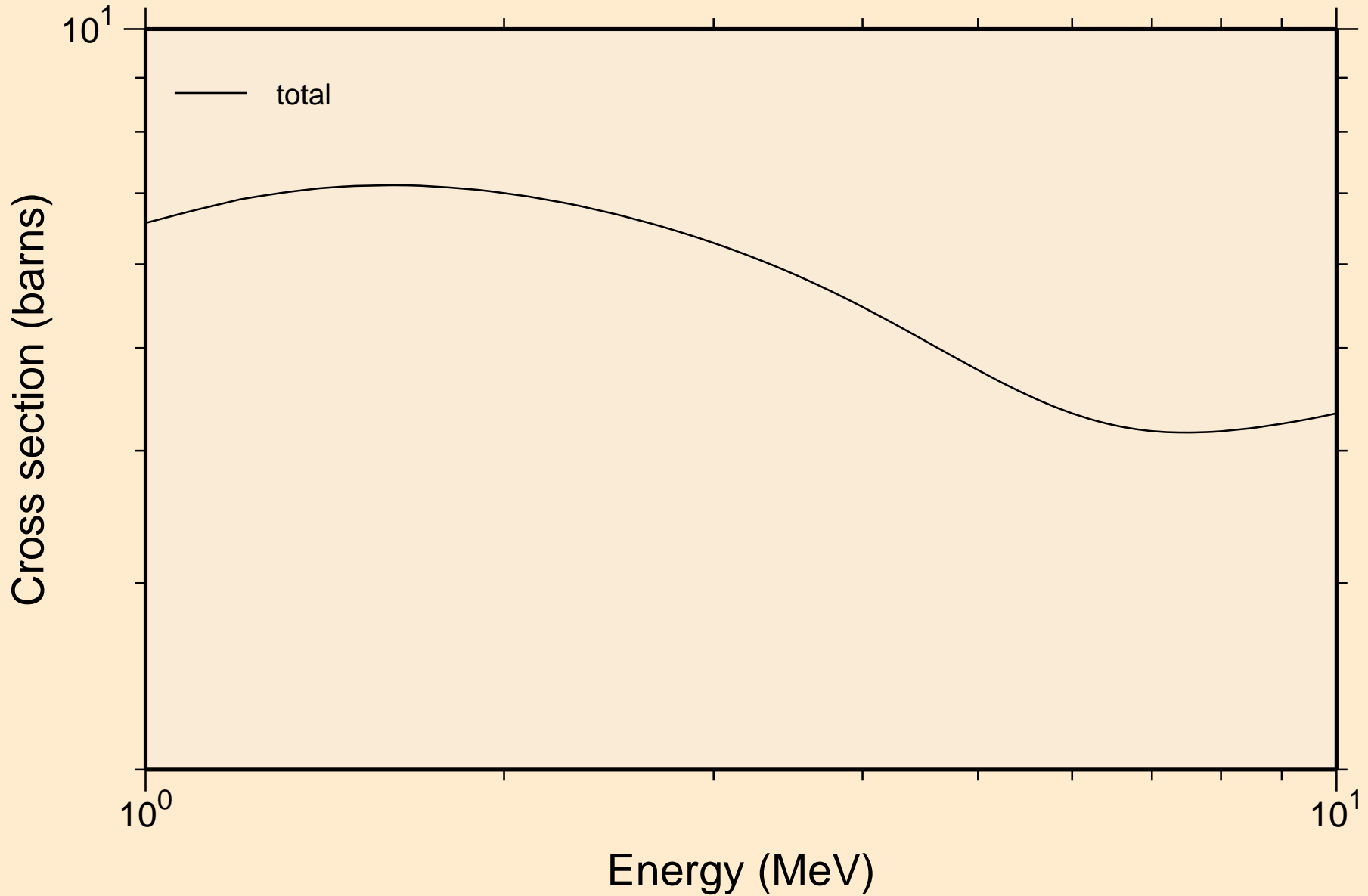
GD138 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
resonance total cross section



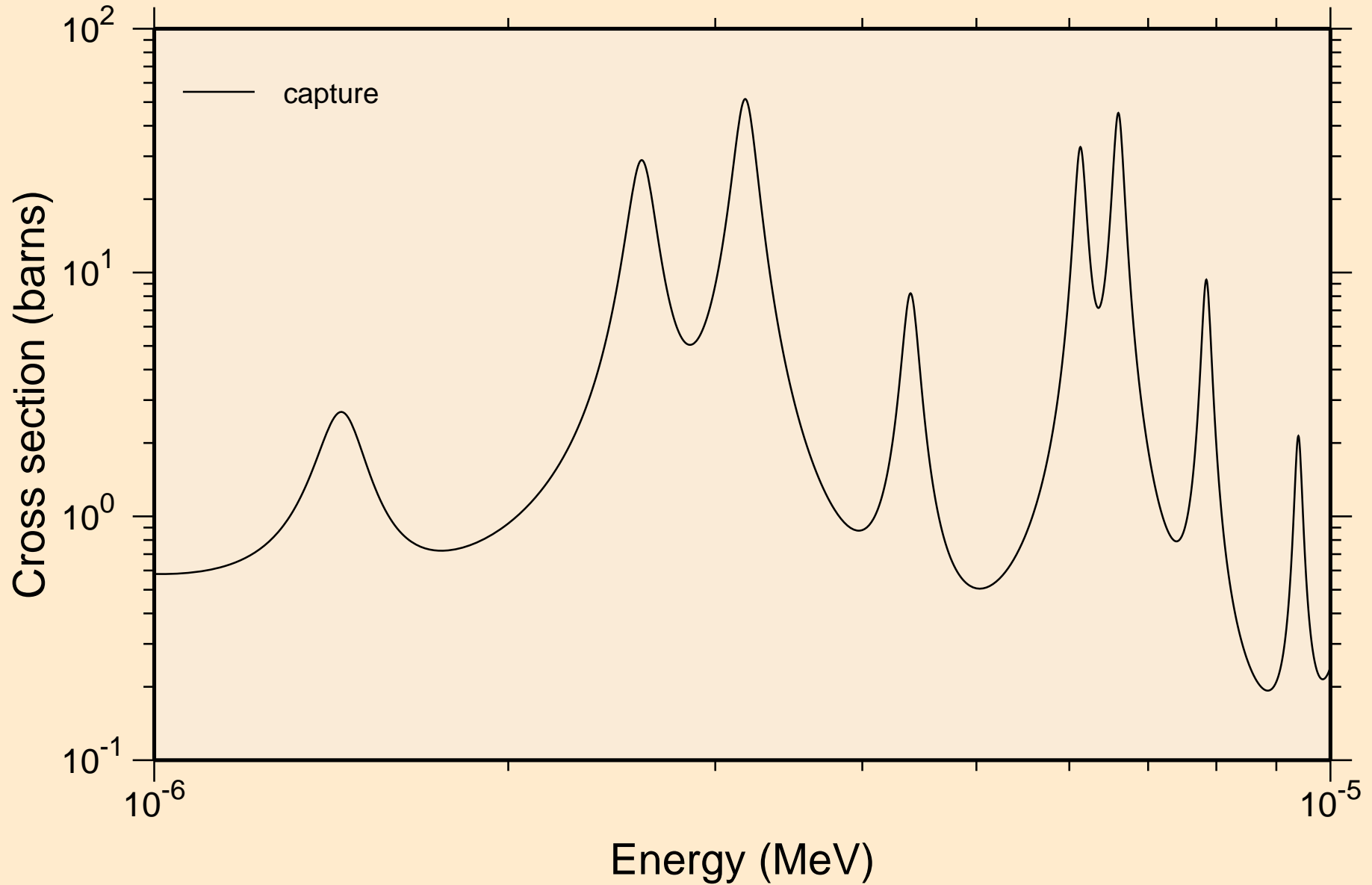
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resonance total cross section



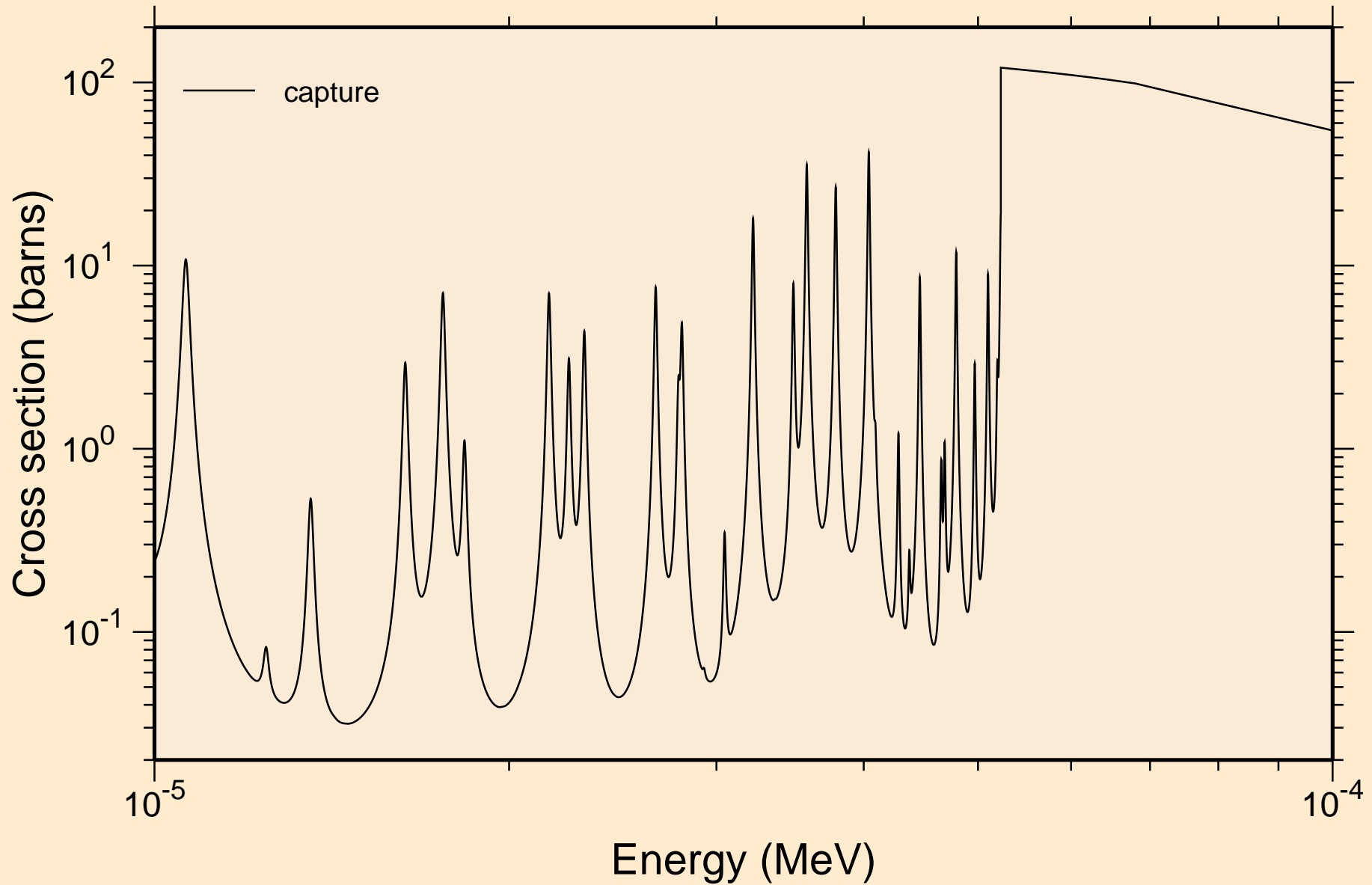
GD138 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
resonance total cross section



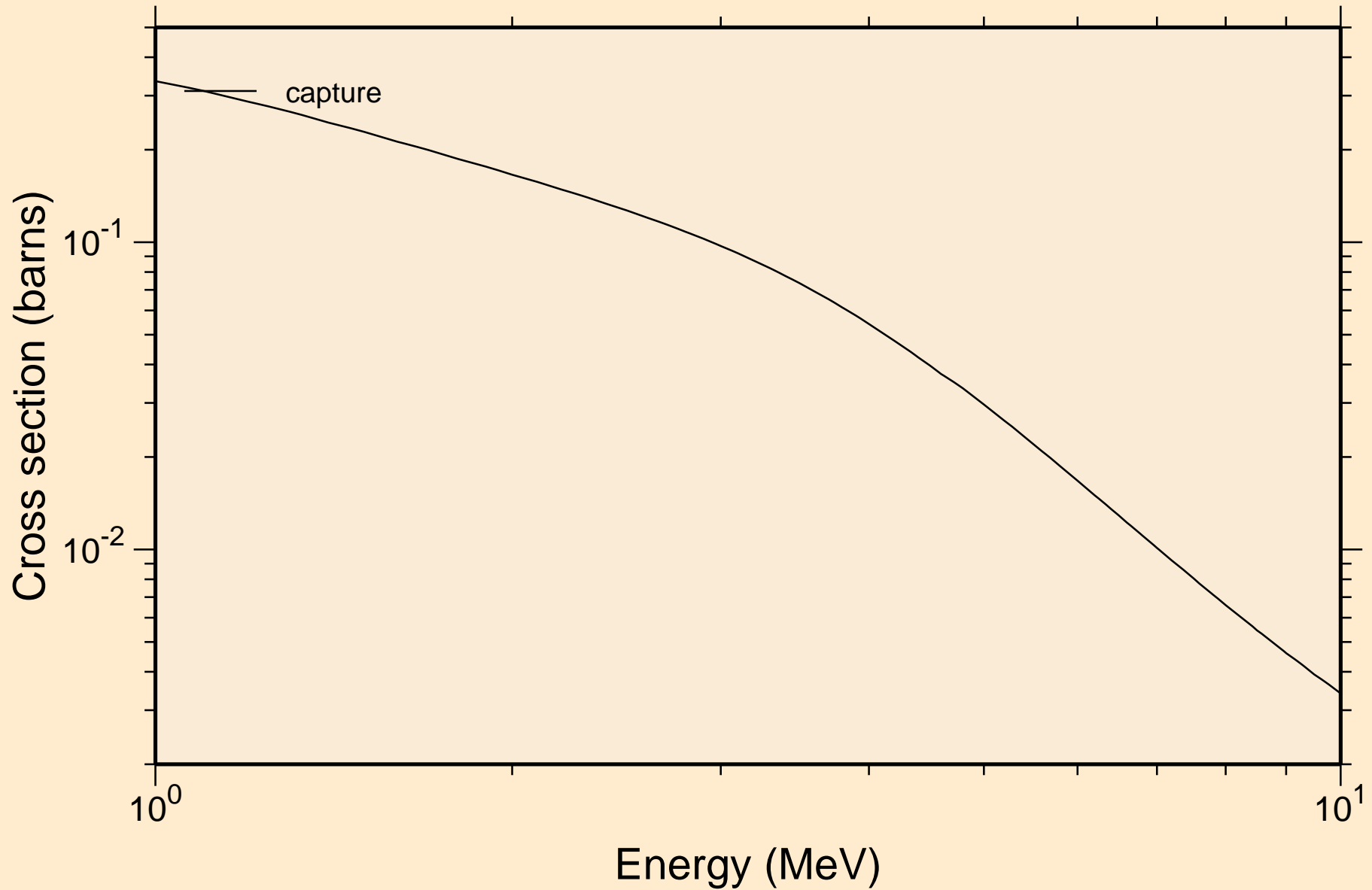
GD138 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
resonance absorption cross sections



GD138 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
resonance absorption cross sections

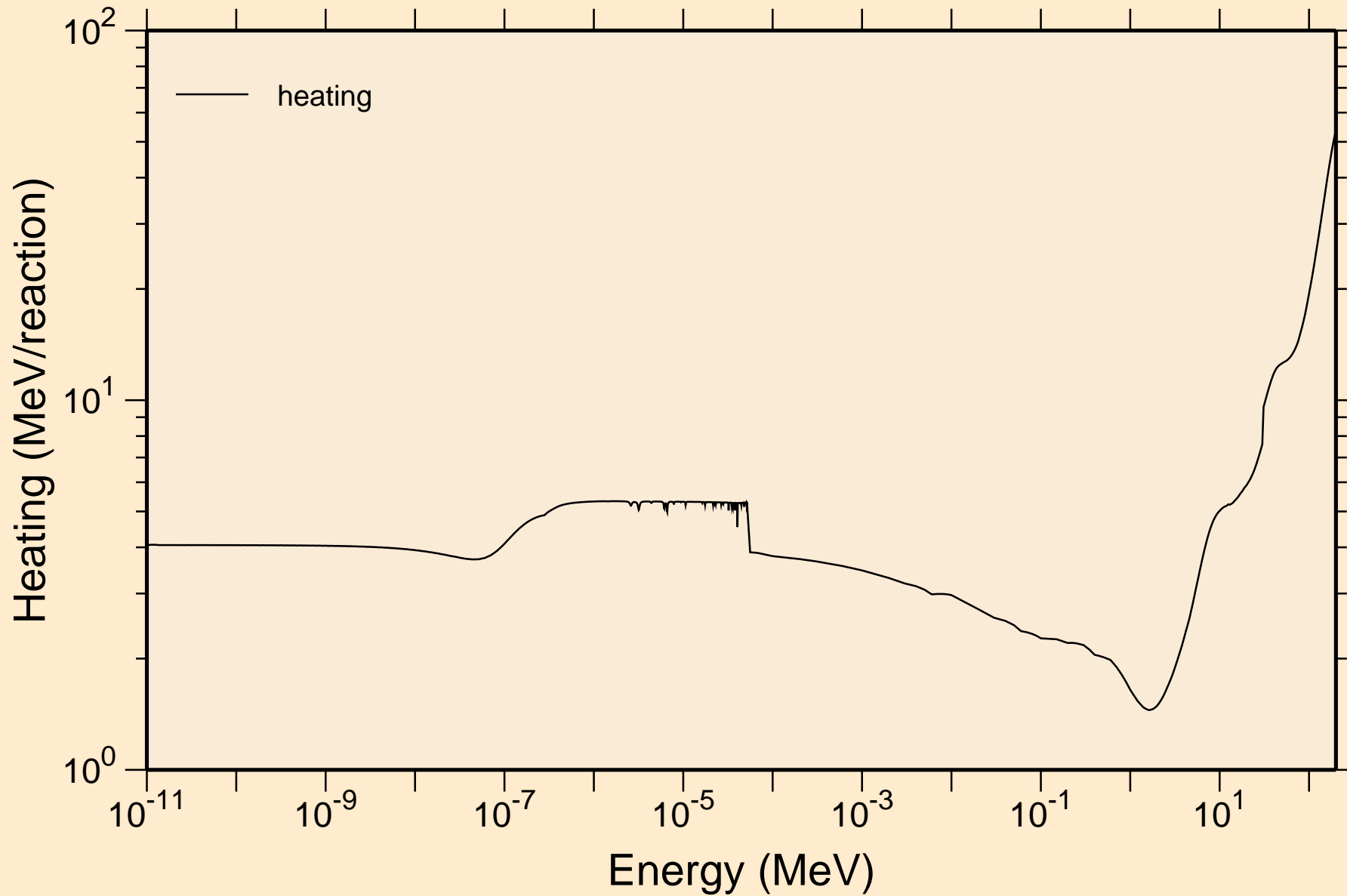


GD138 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
resonance absorption cross sections



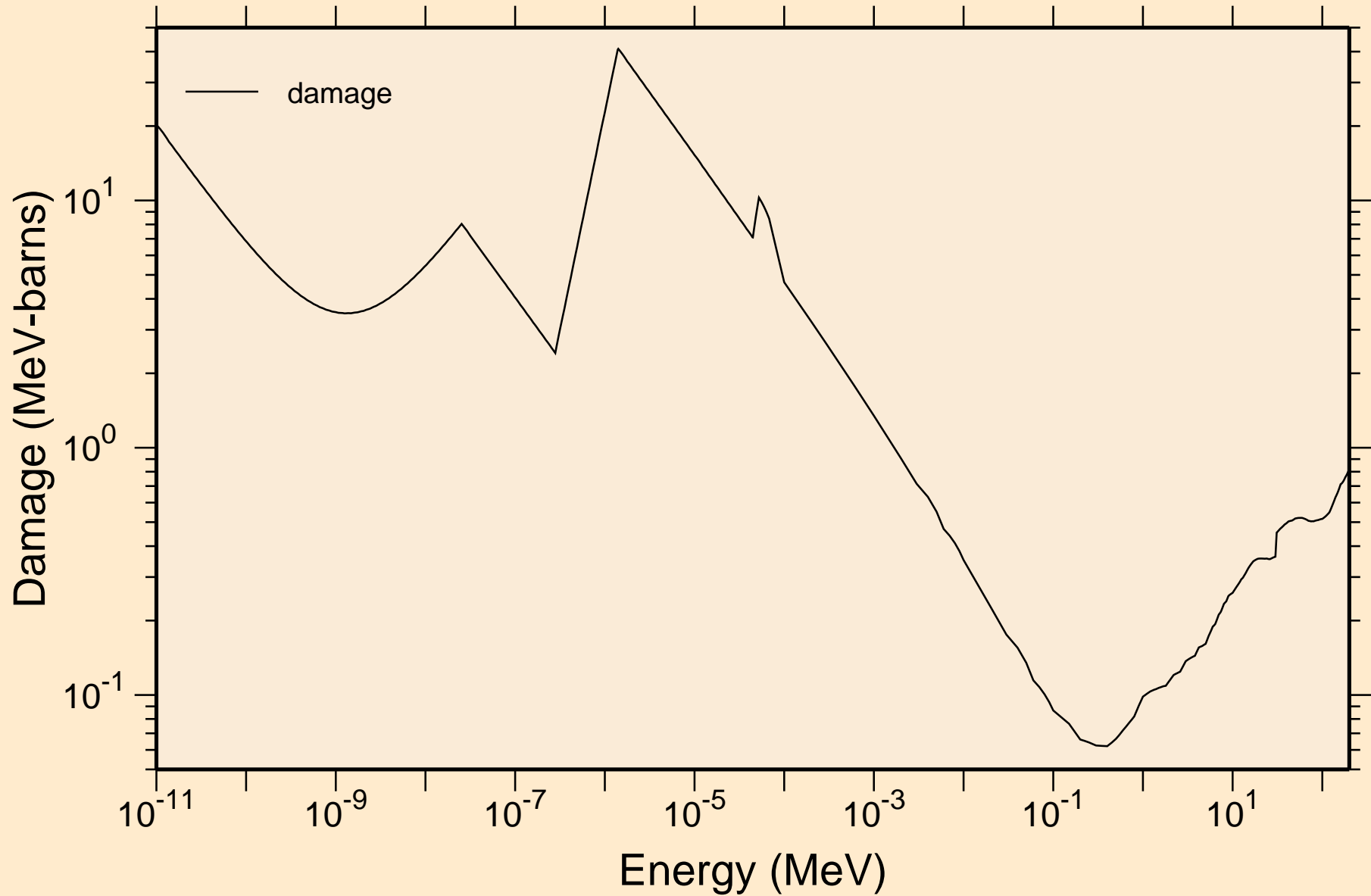
# GD138 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

## Heating



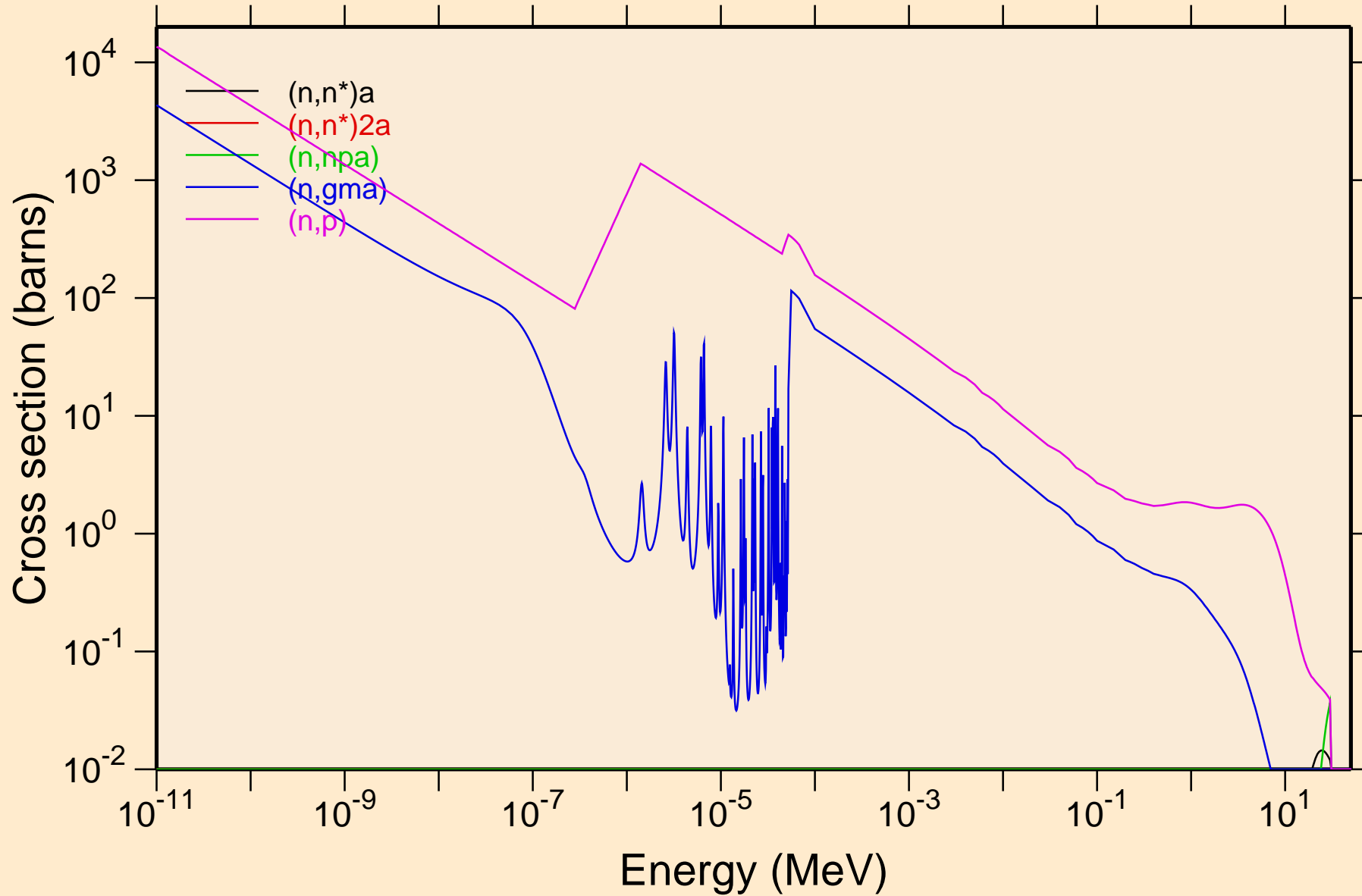
# GD138 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

## Damage



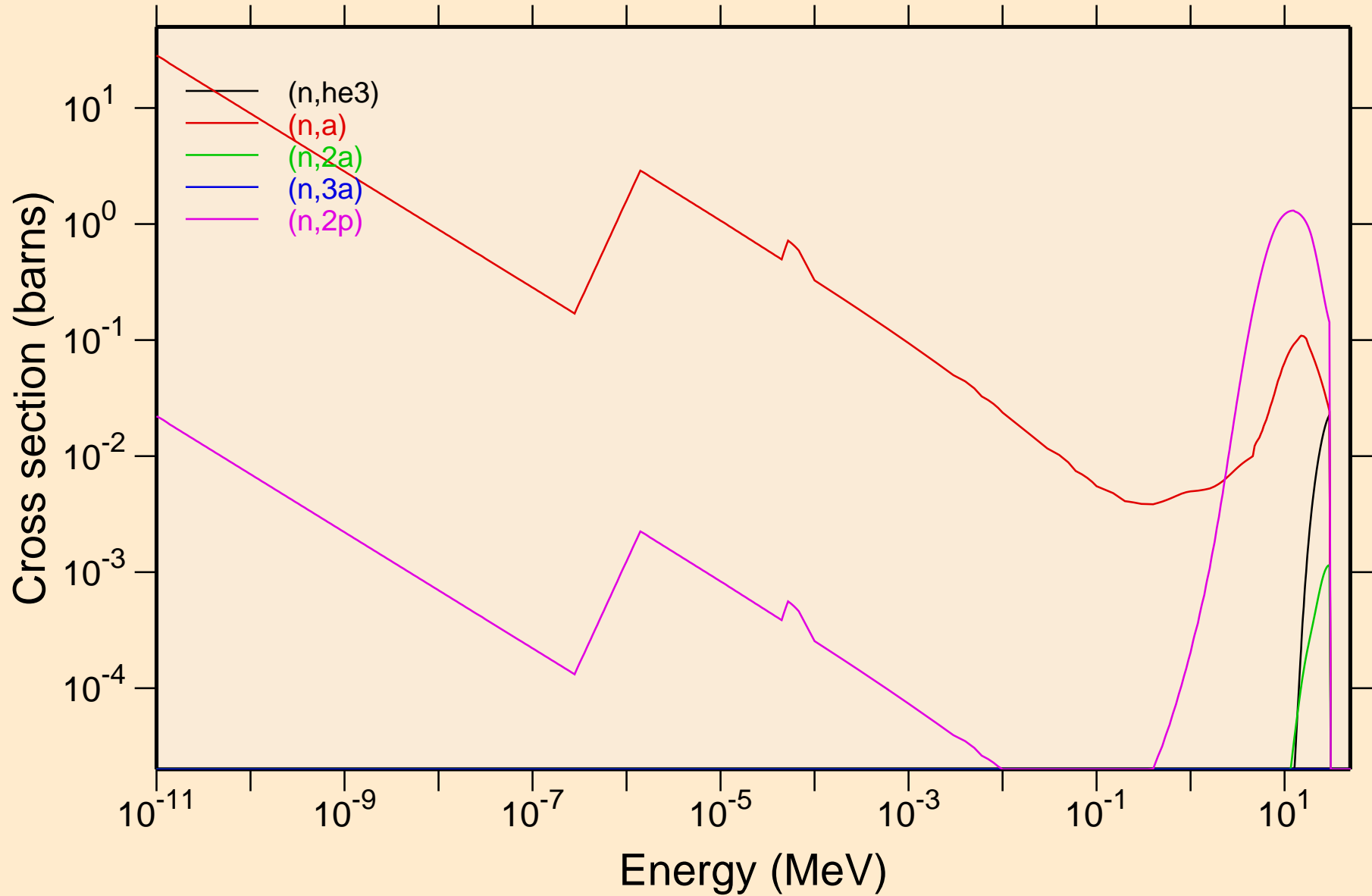
# GD138 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

## Non-threshold reactions



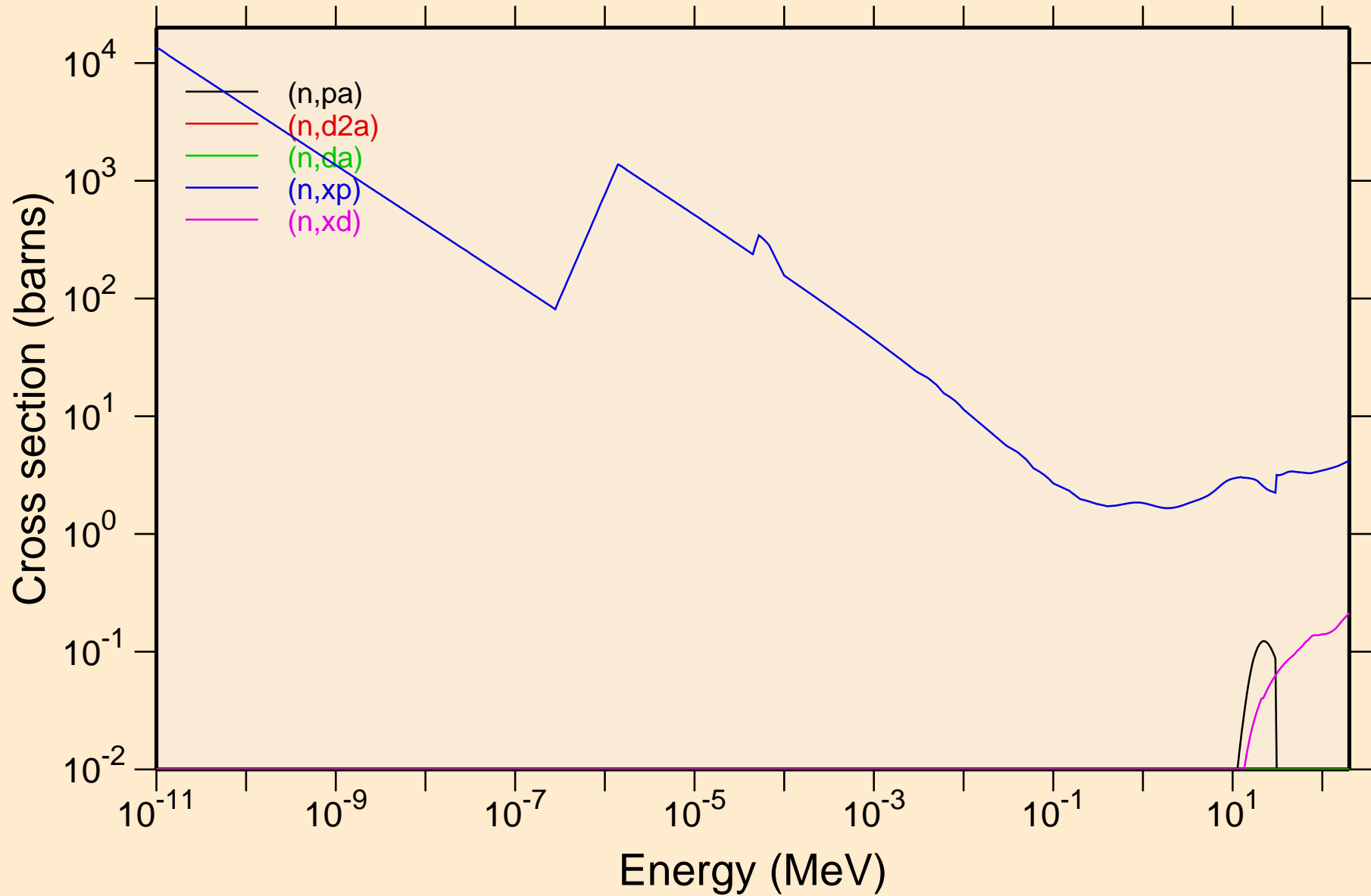
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## Non-threshold reactions

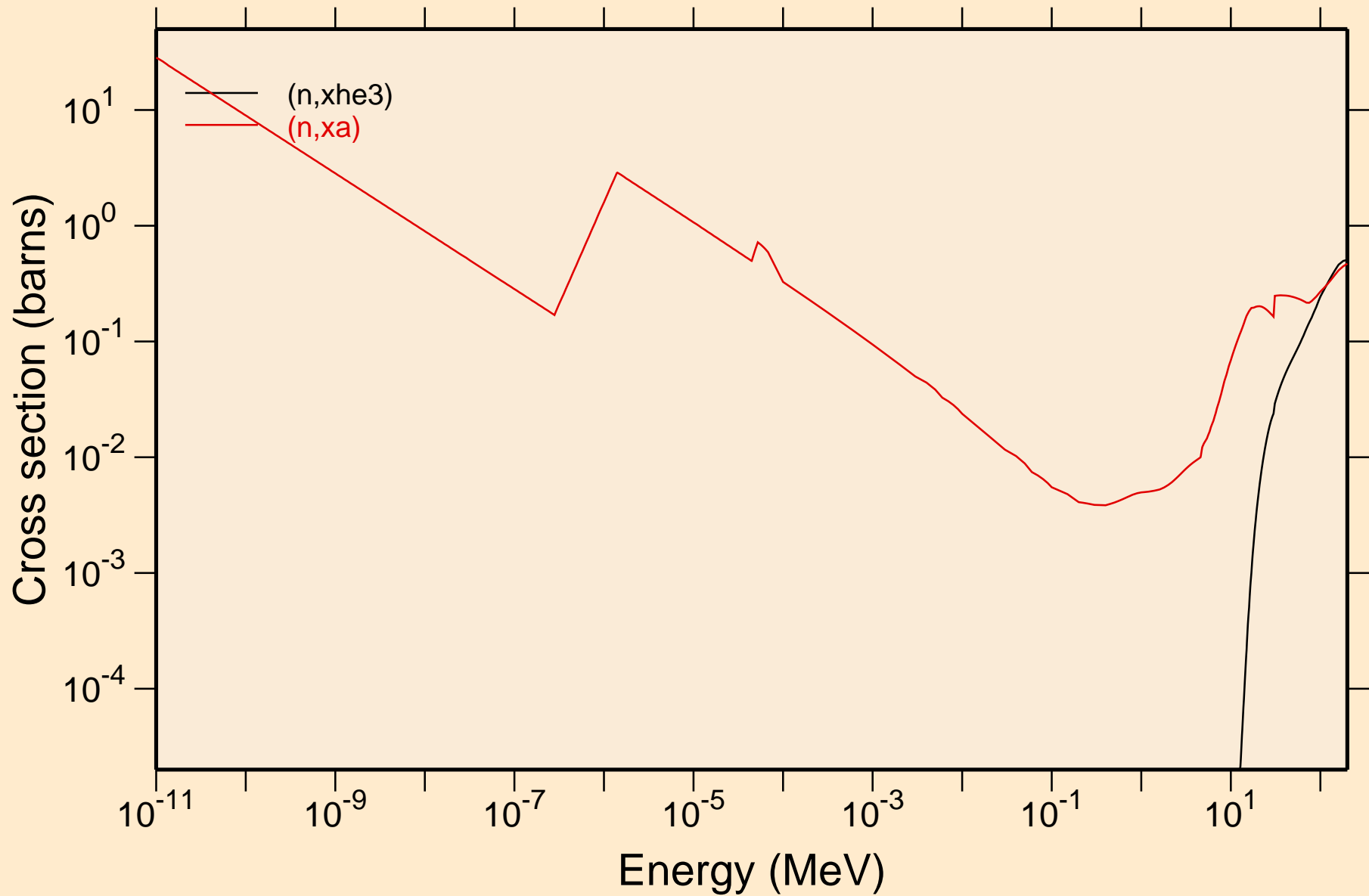


# GD138 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

## Non-threshold reactions

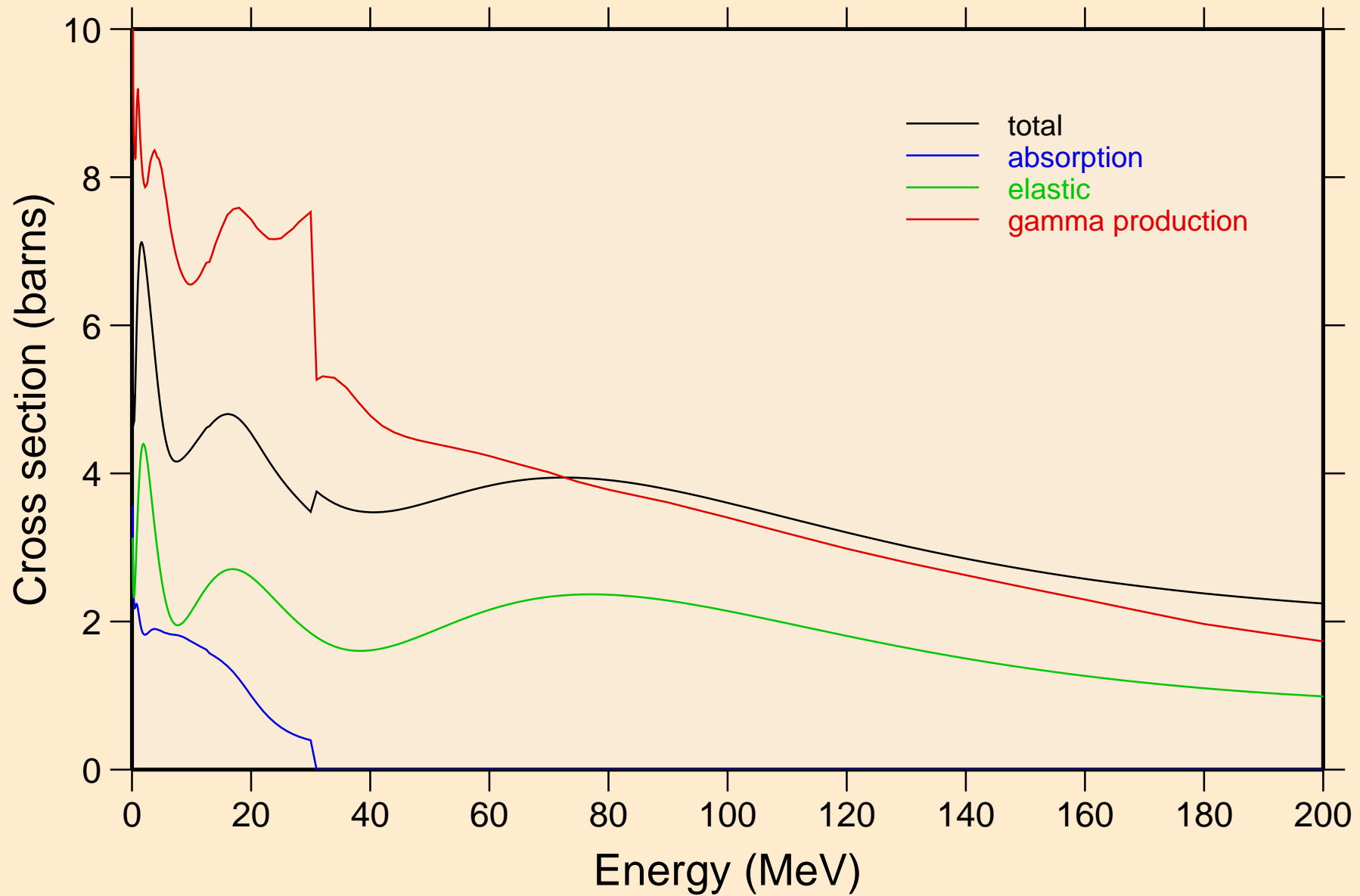


GD138 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Non-threshold reactions



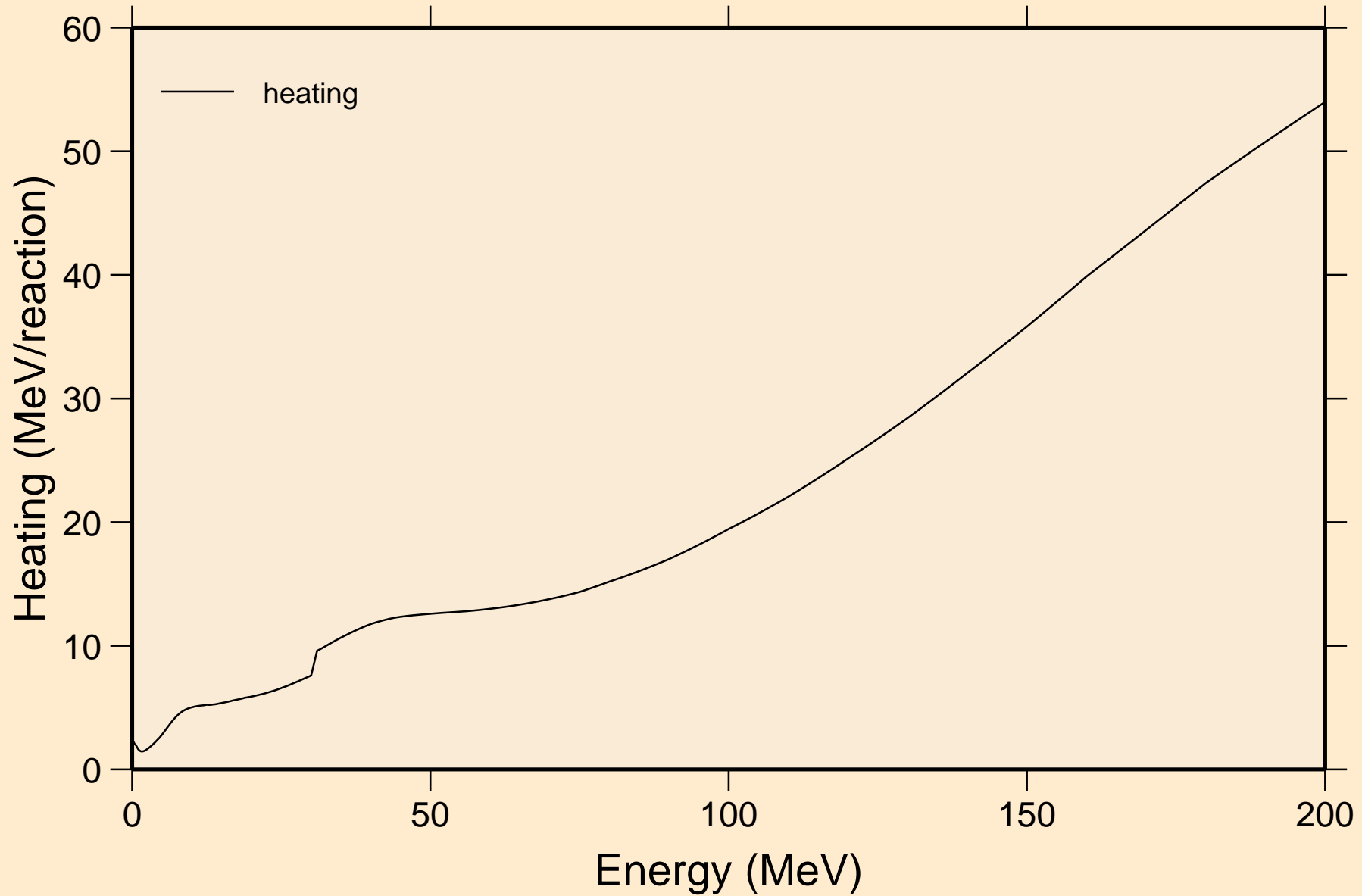
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## Principal cross sections



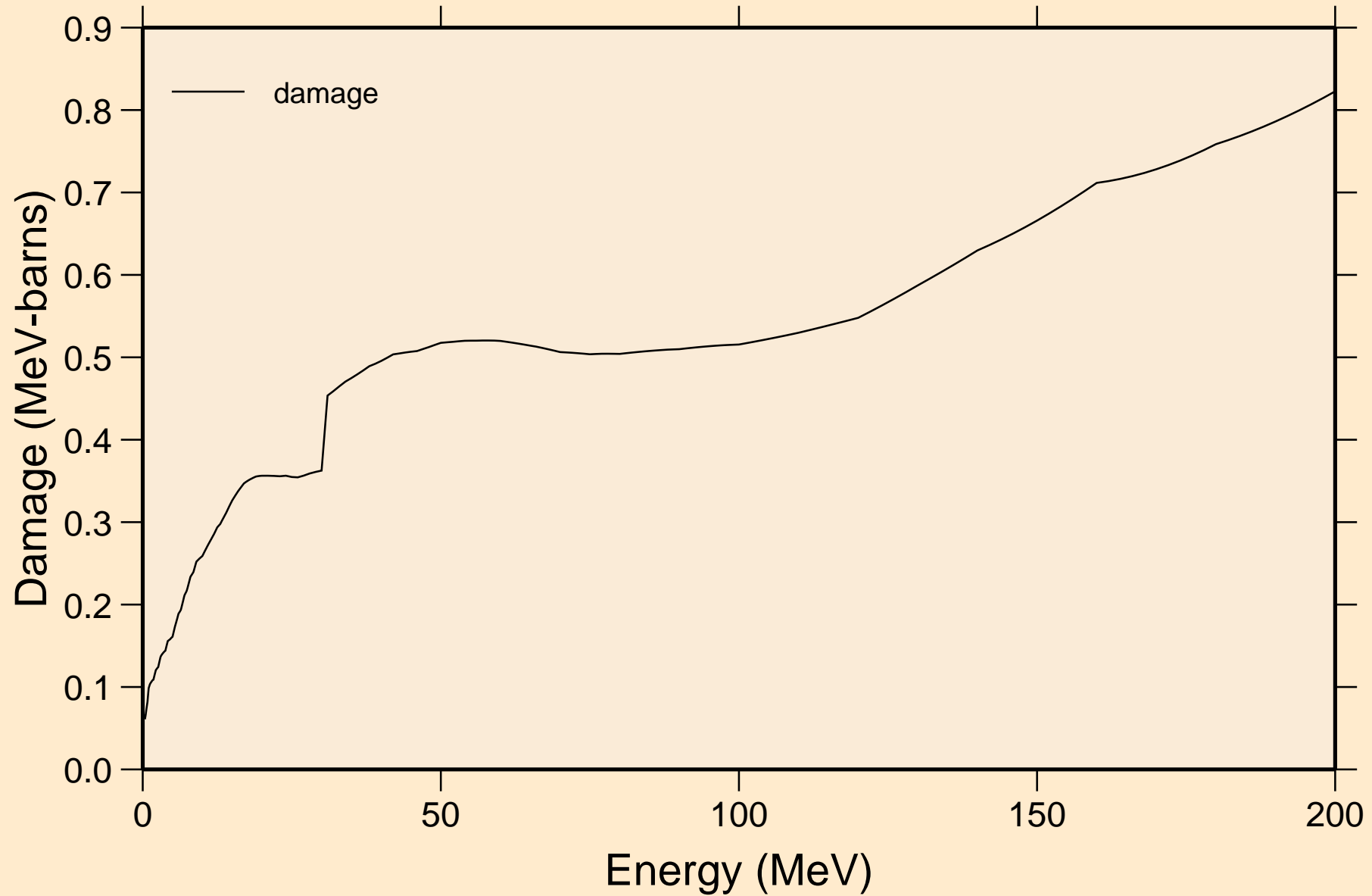
# GD138 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

## Heating



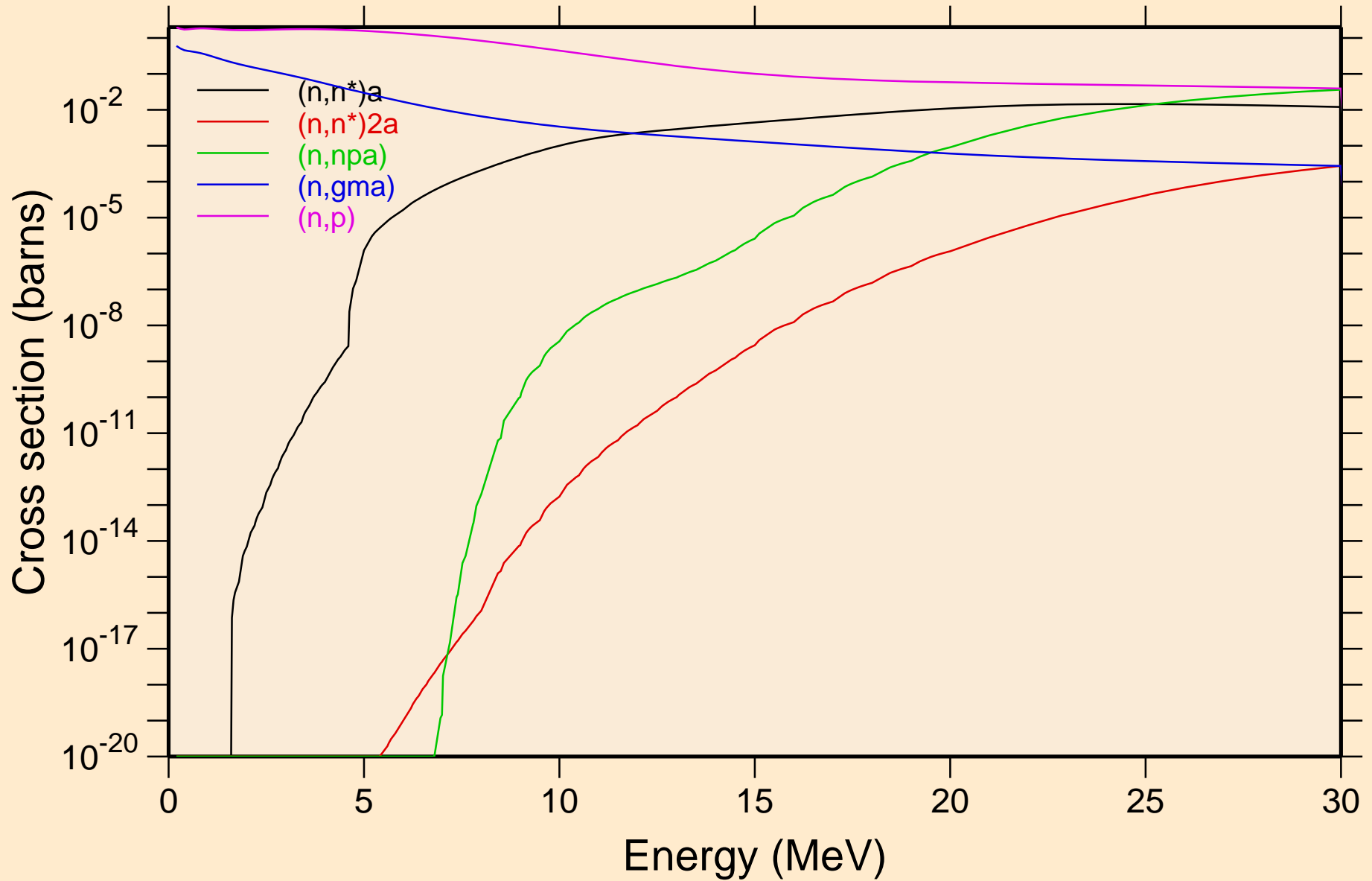
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## Damage

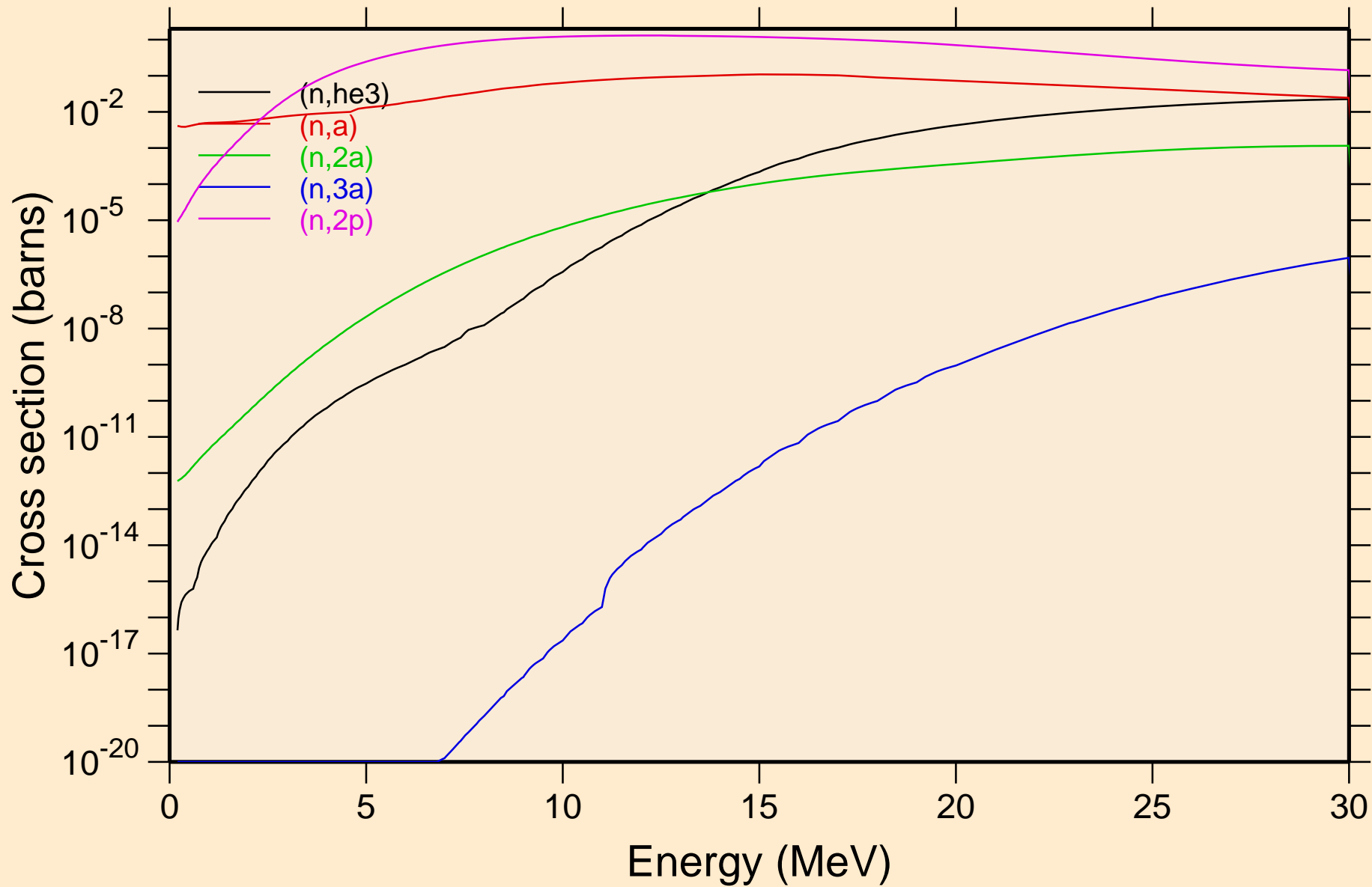


# GD138 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

## Non-threshold reactions

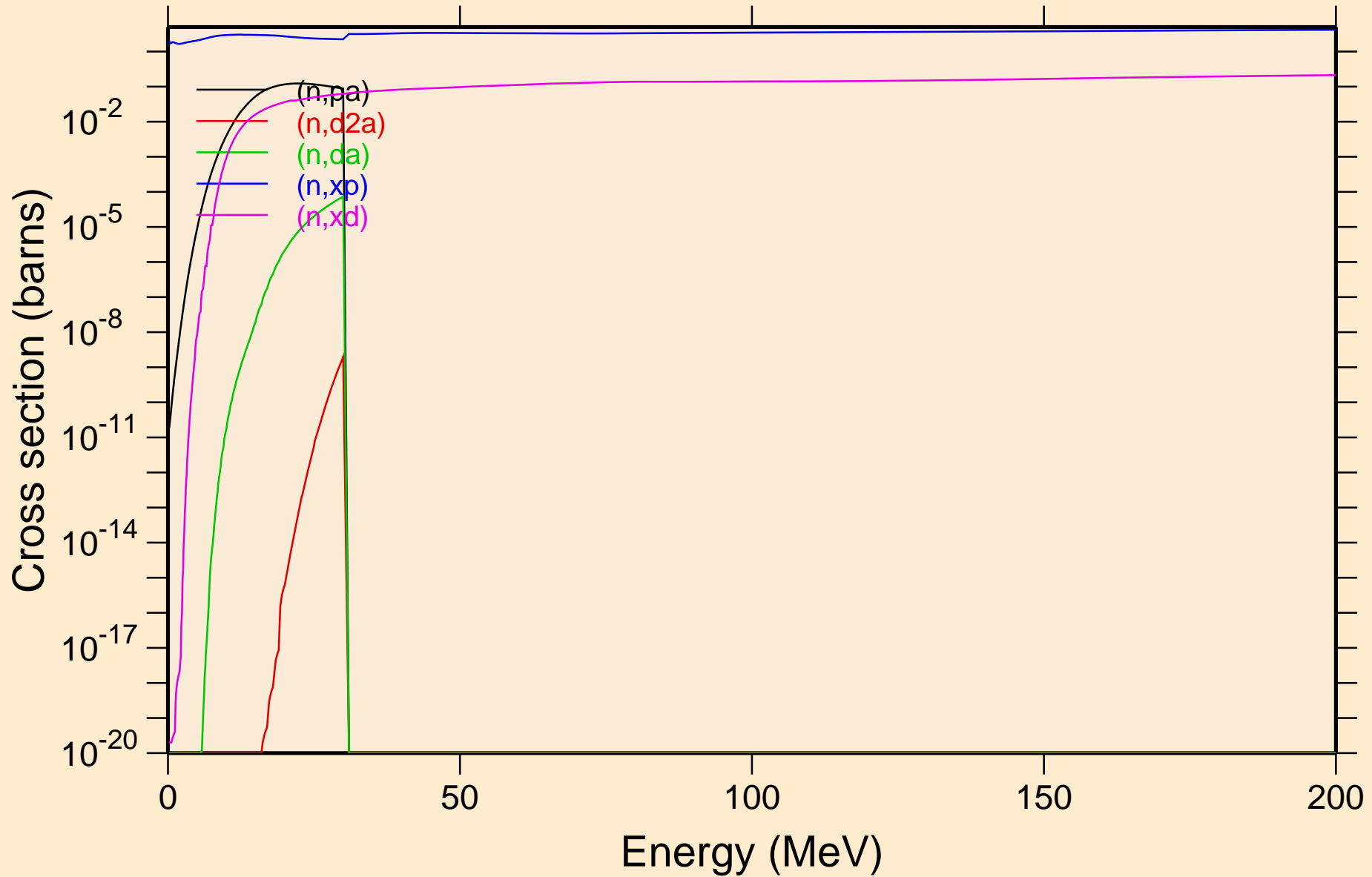


GD138 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Non-threshold reactions

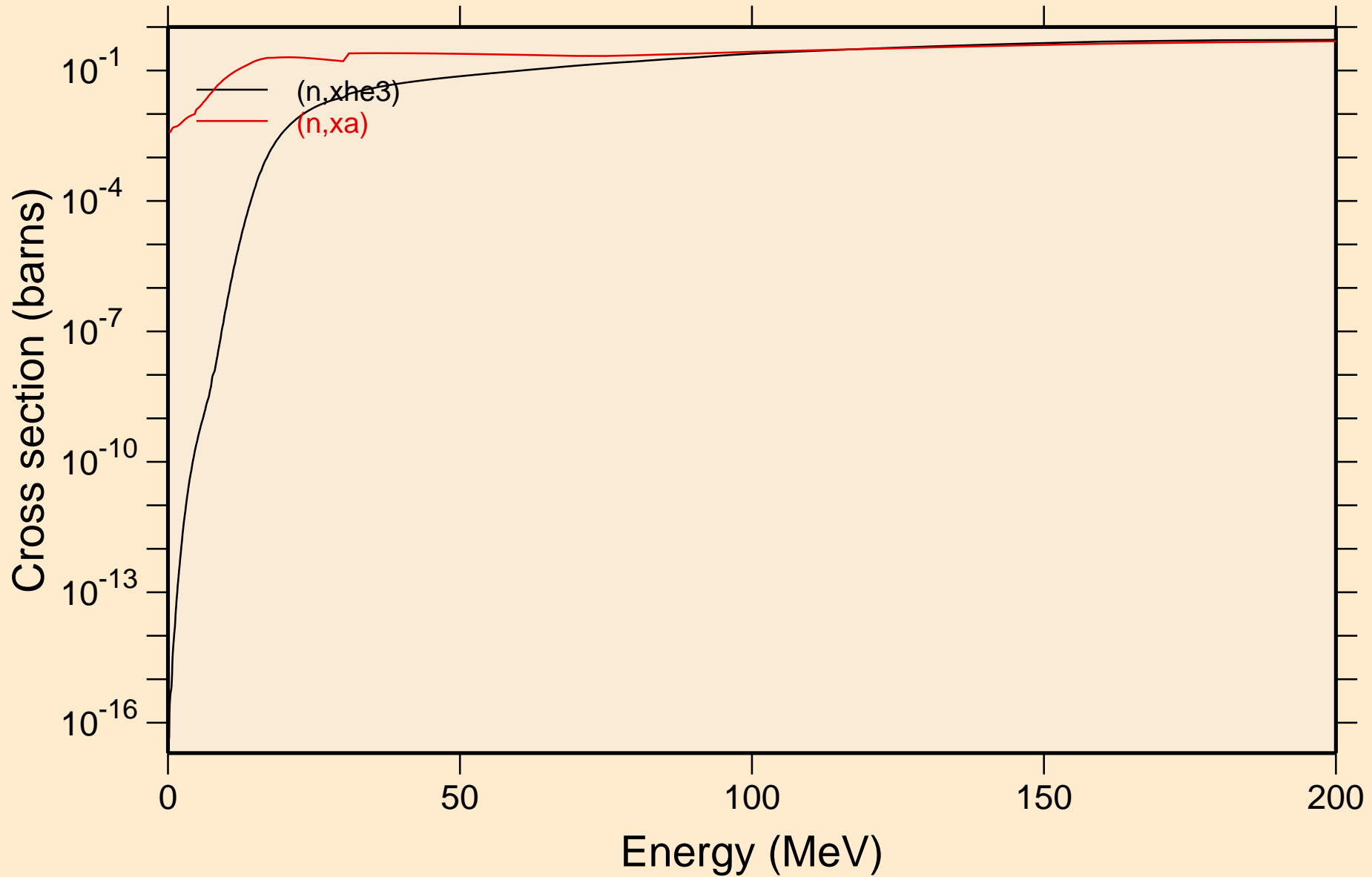


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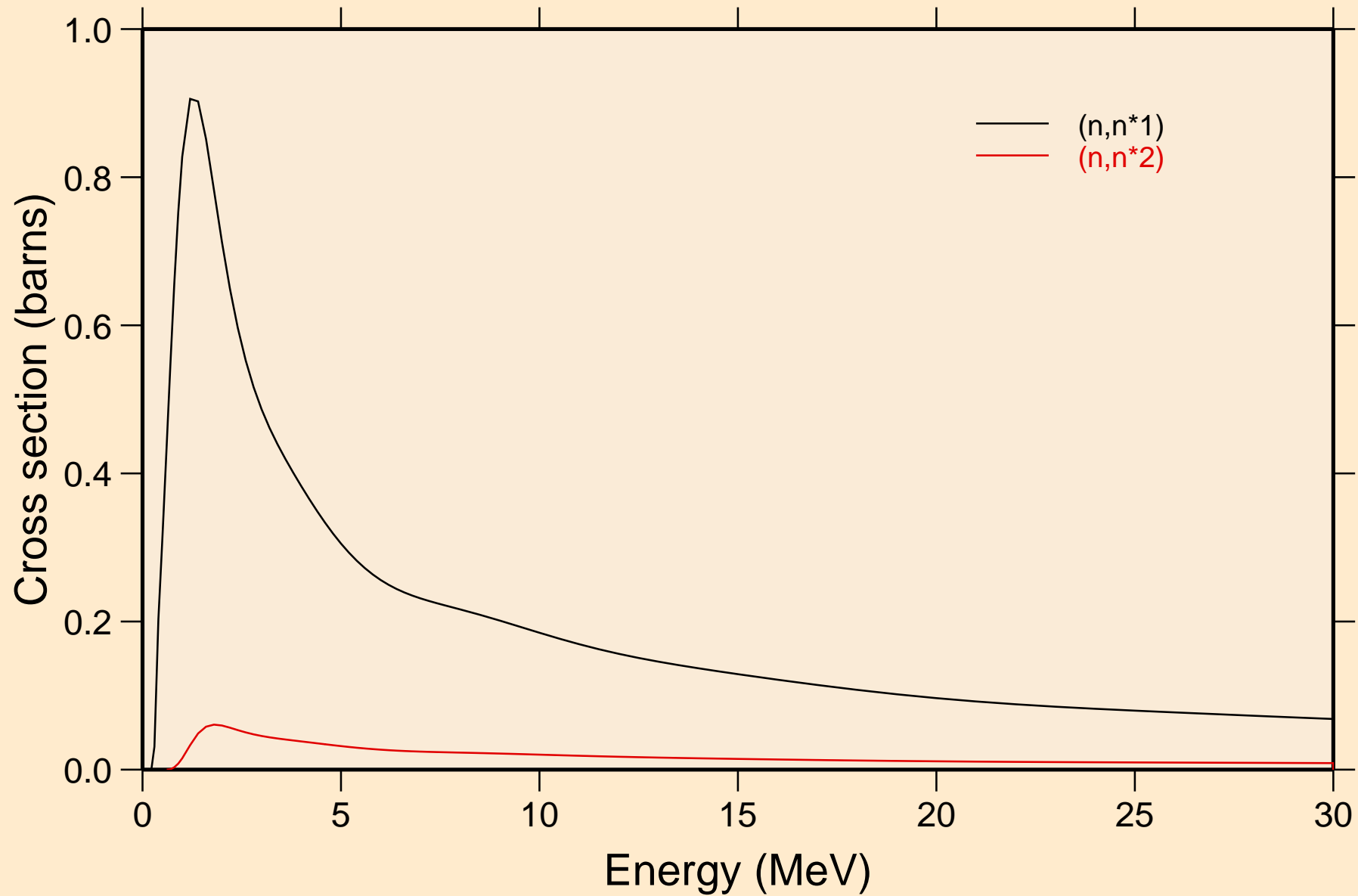
## Non-threshold reactions



GD138 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Non-threshold reactions

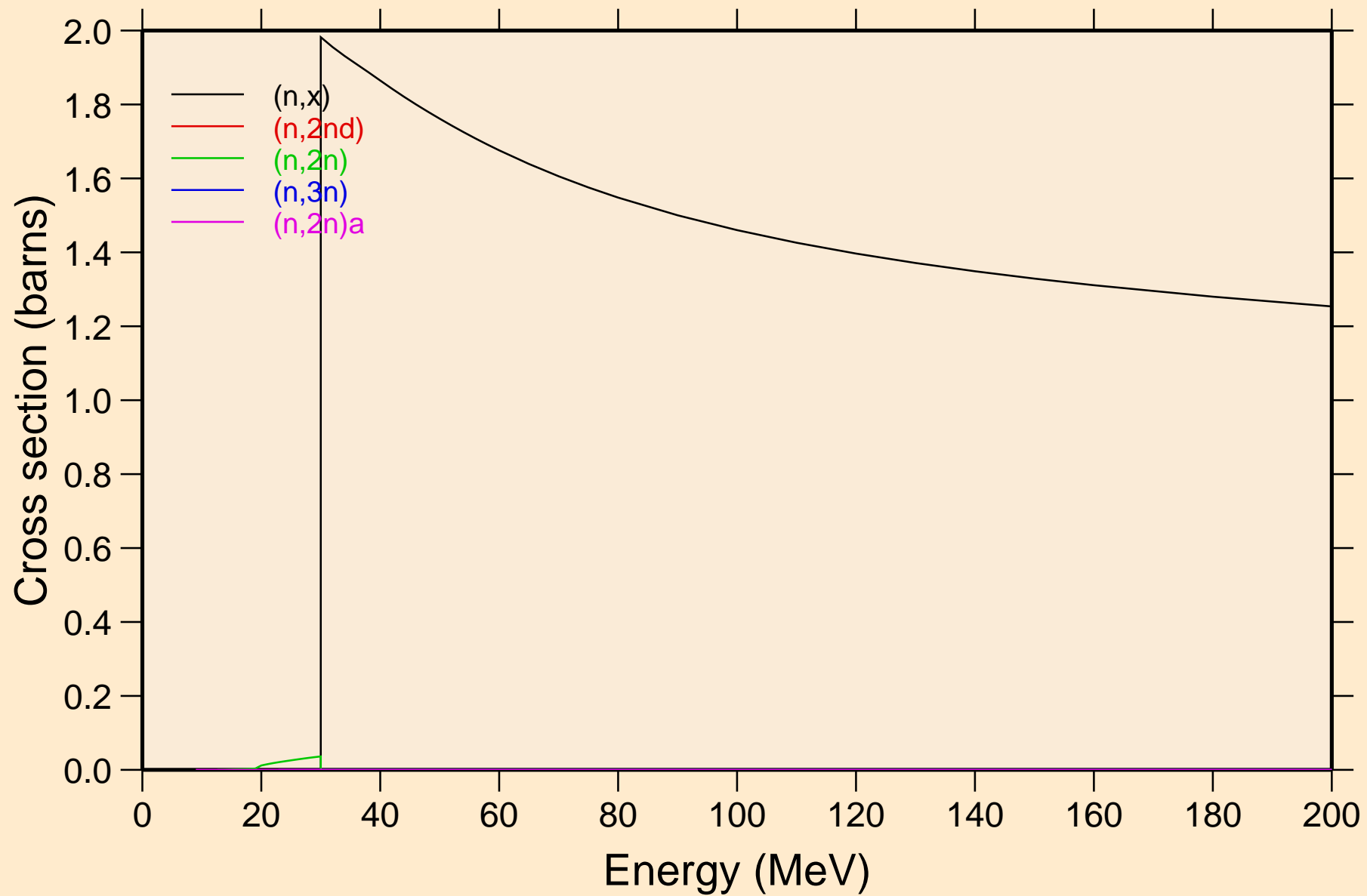


GD138 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Inelastic levels



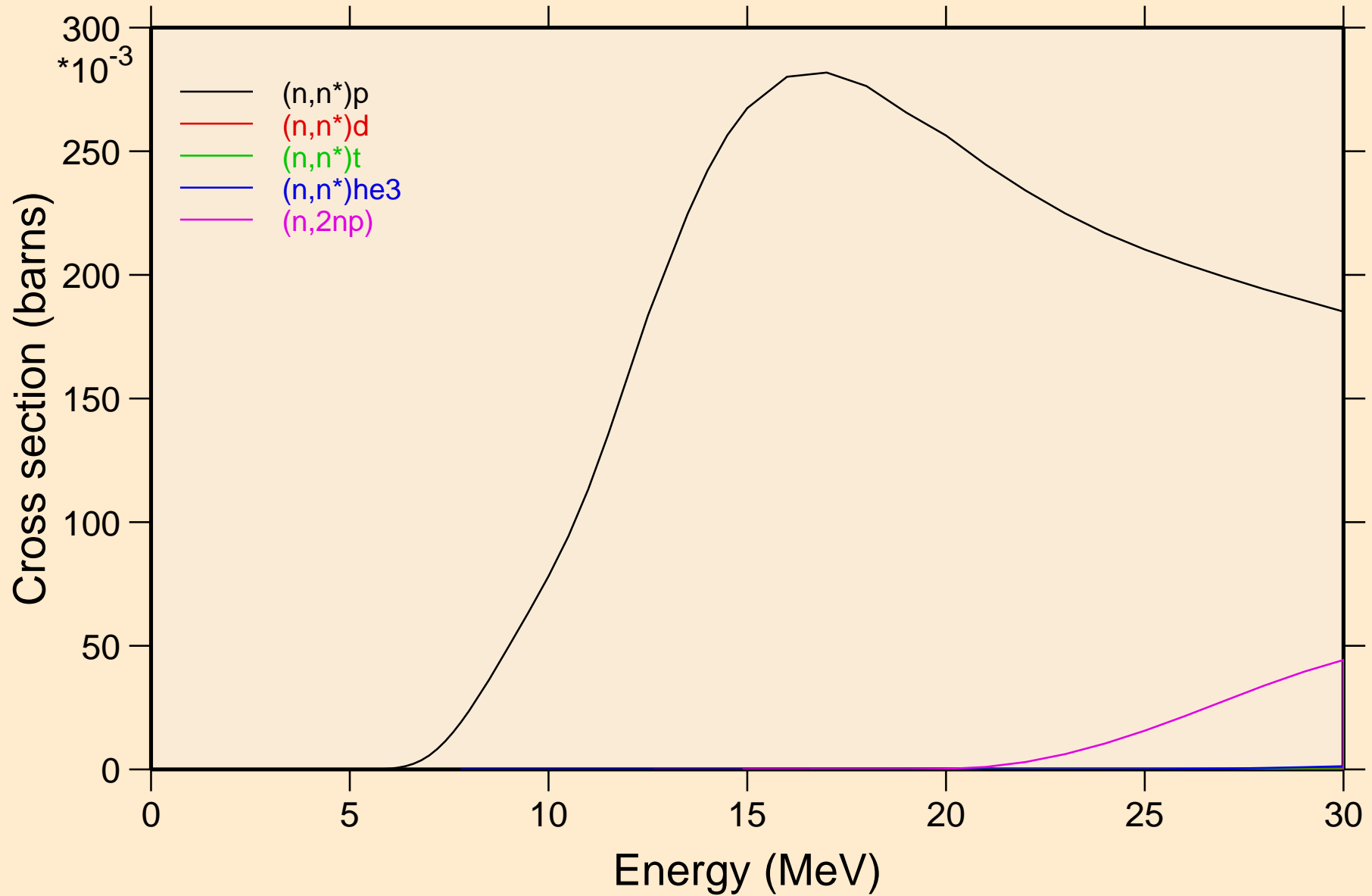
# GD138 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

## Threshold reactions



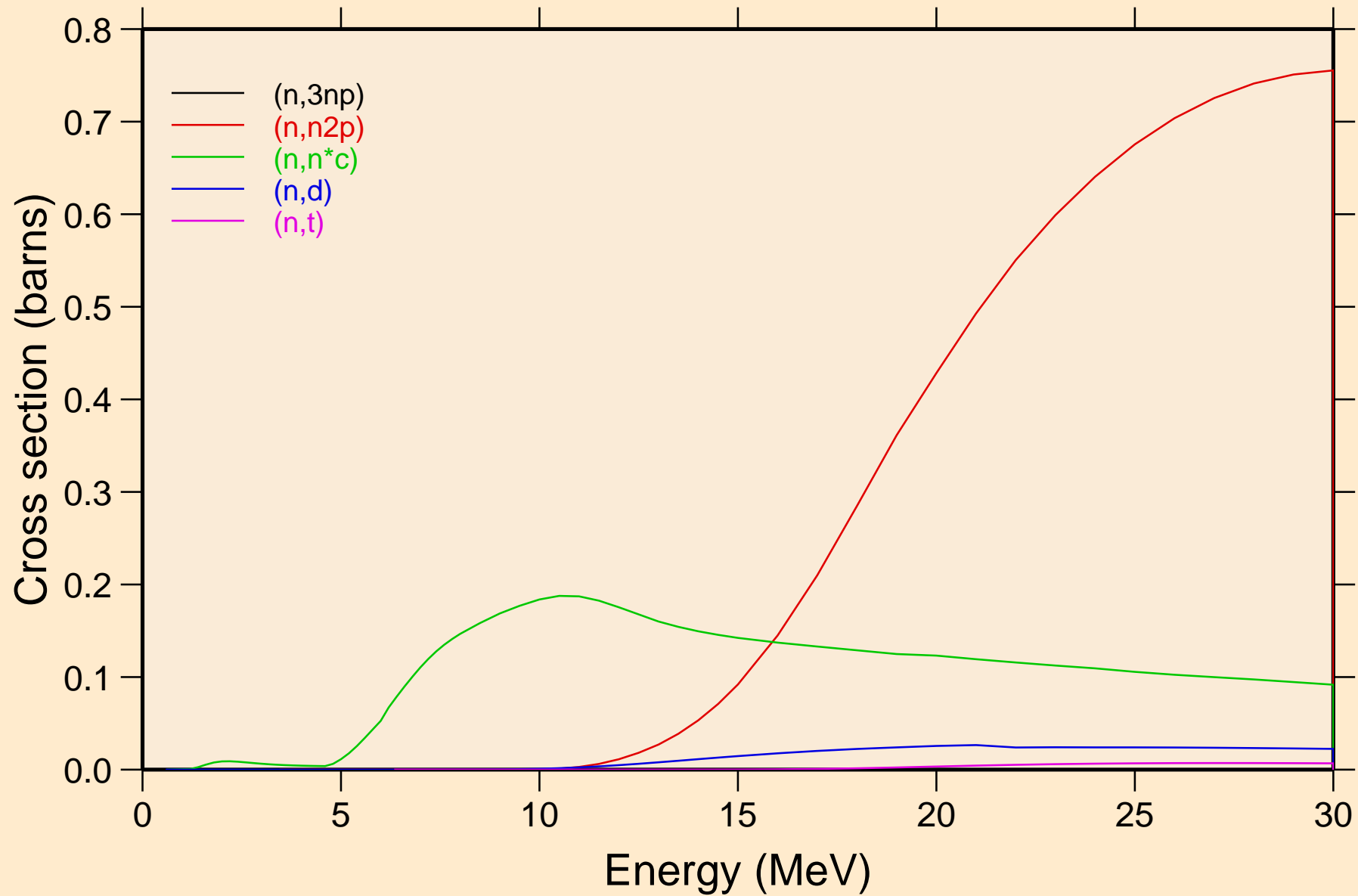
# GD138 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

## Threshold reactions



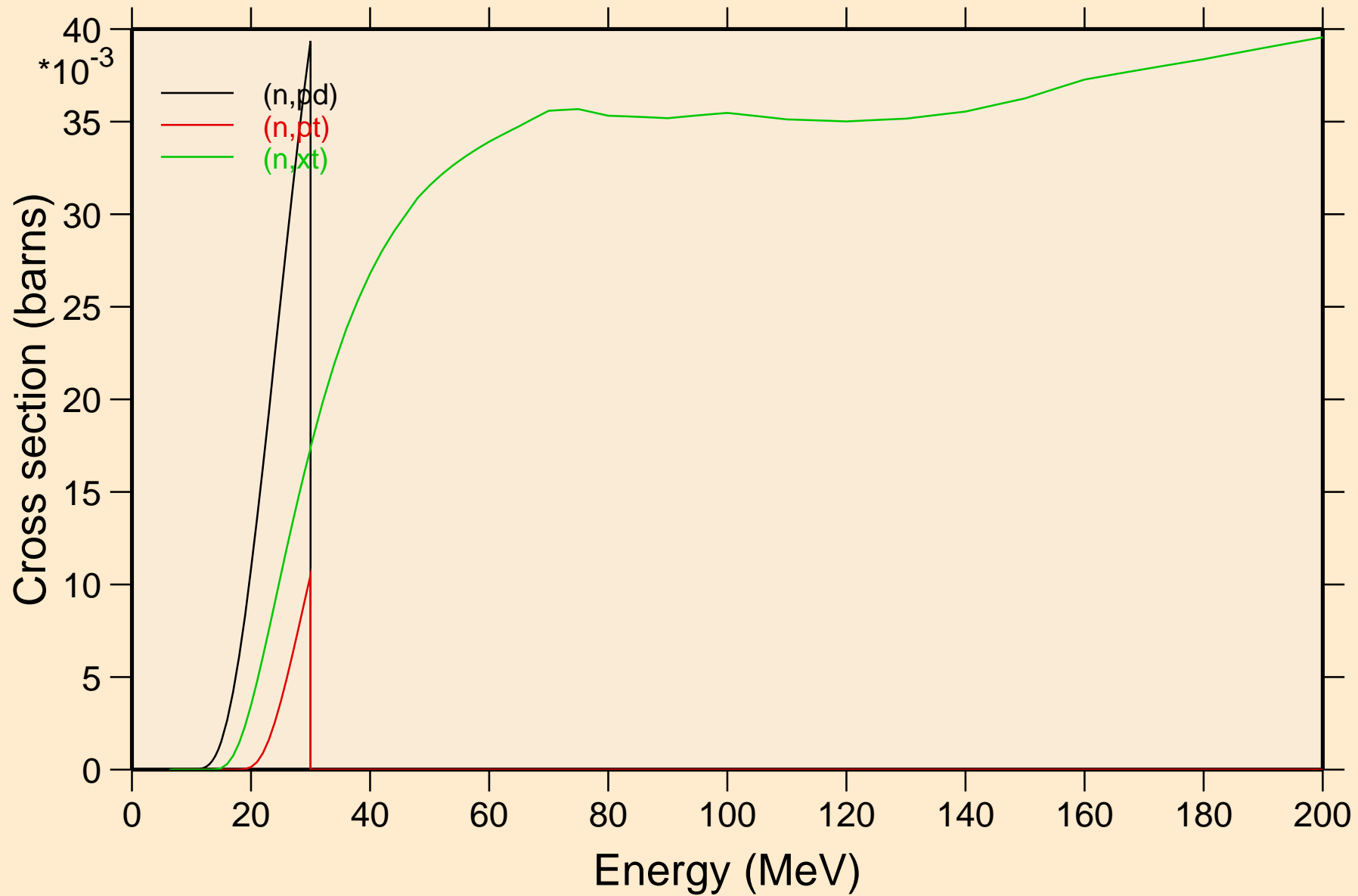
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## Threshold reactions

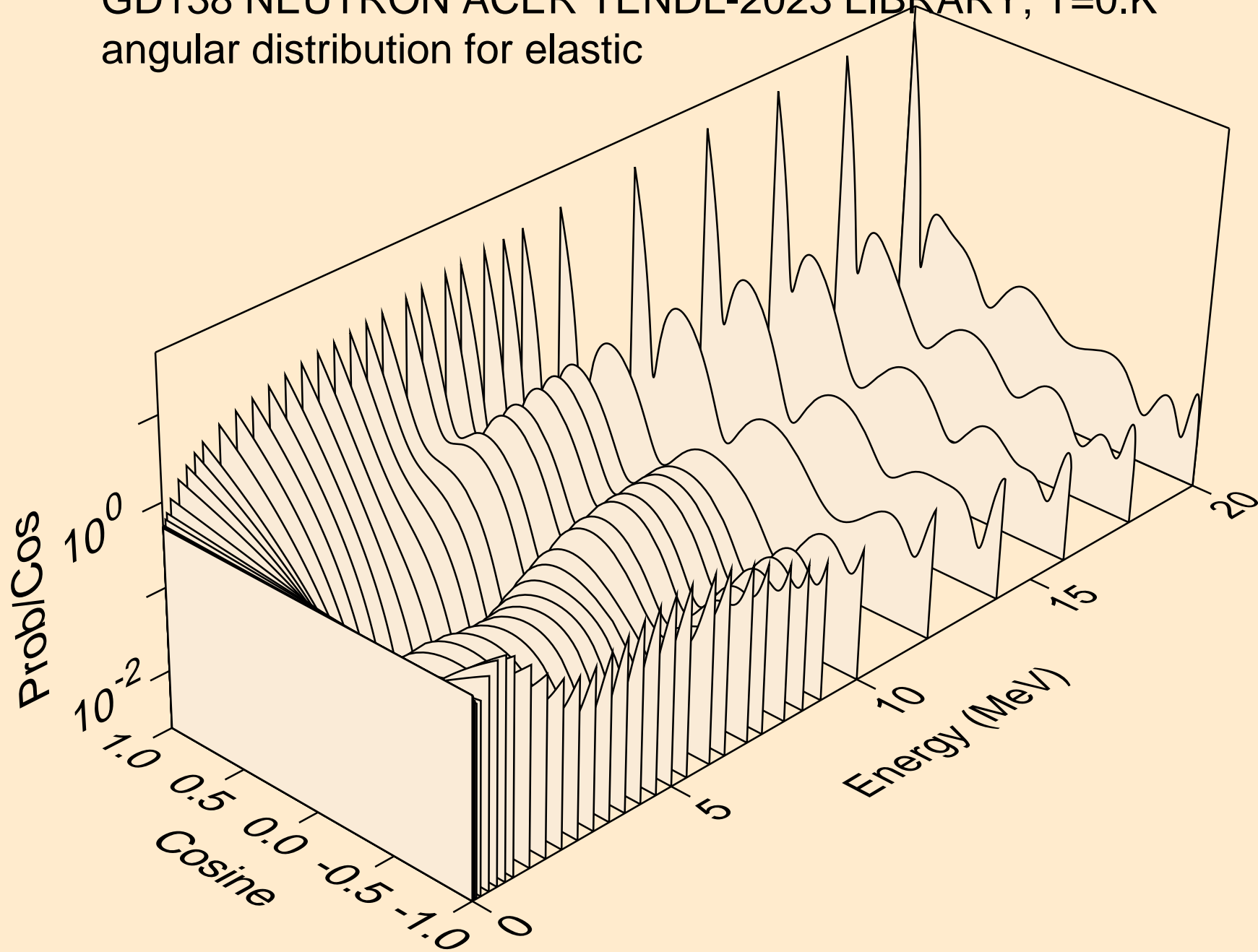


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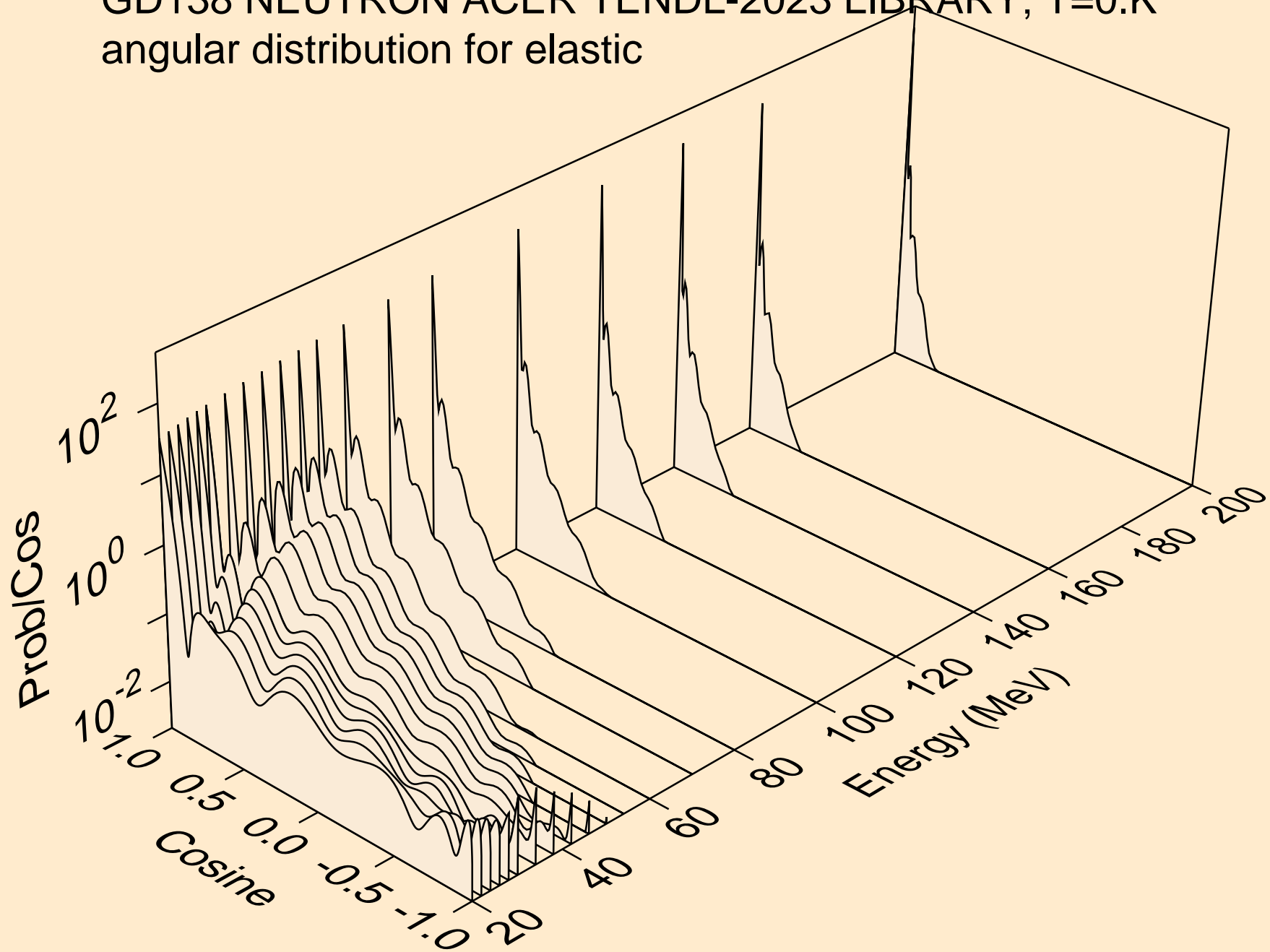
## Threshold reactions



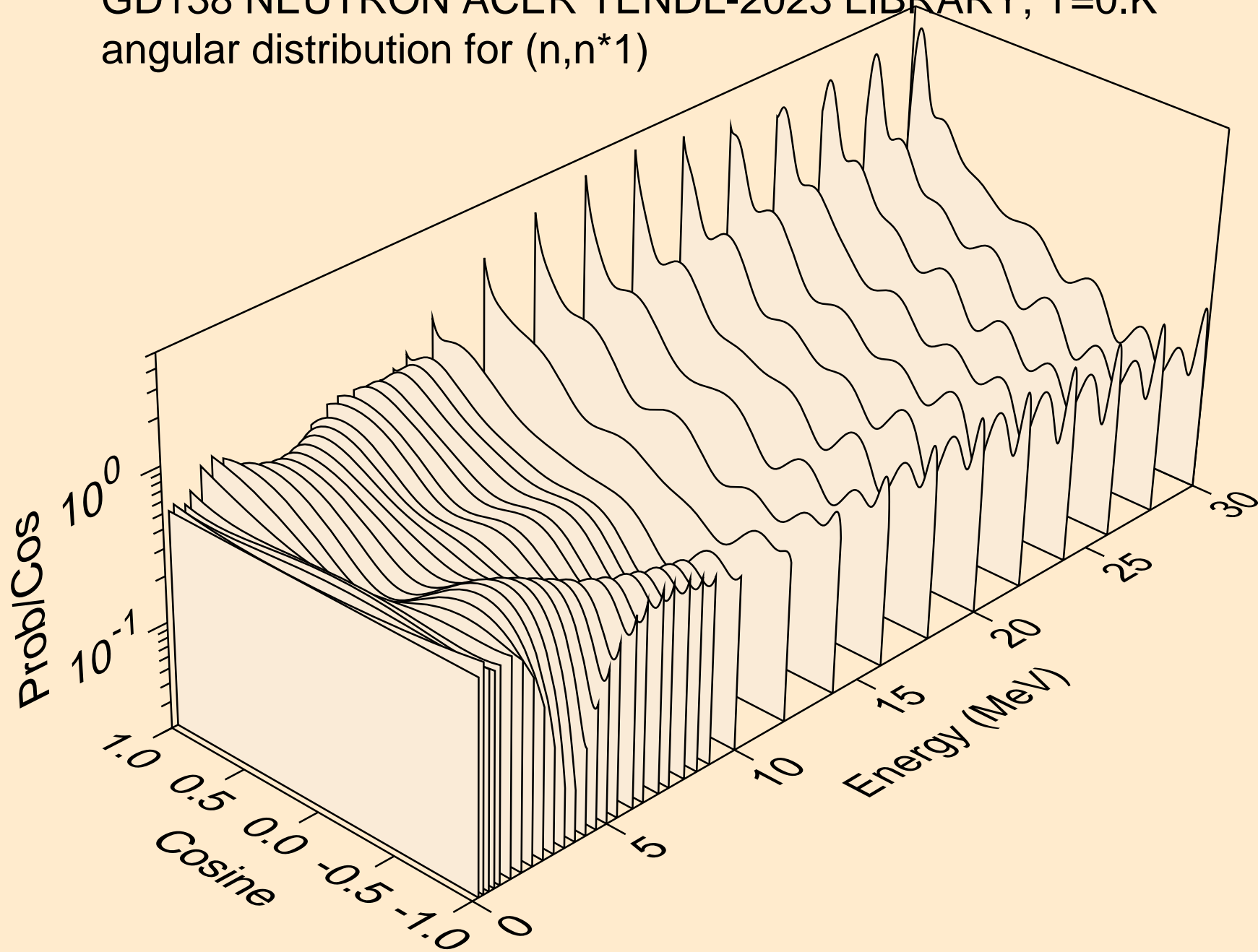
GD138 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for elastic



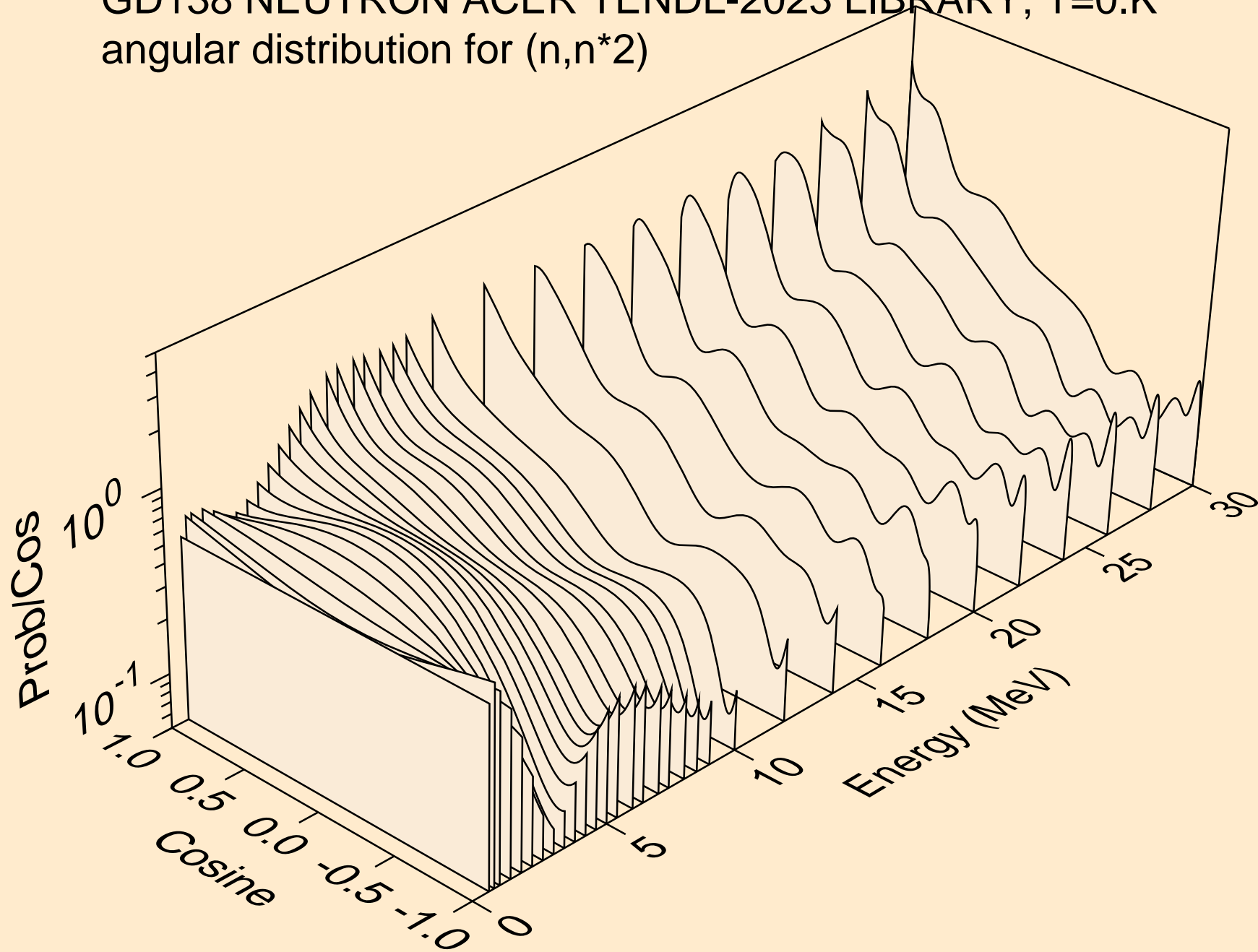
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angular distribution for elastic



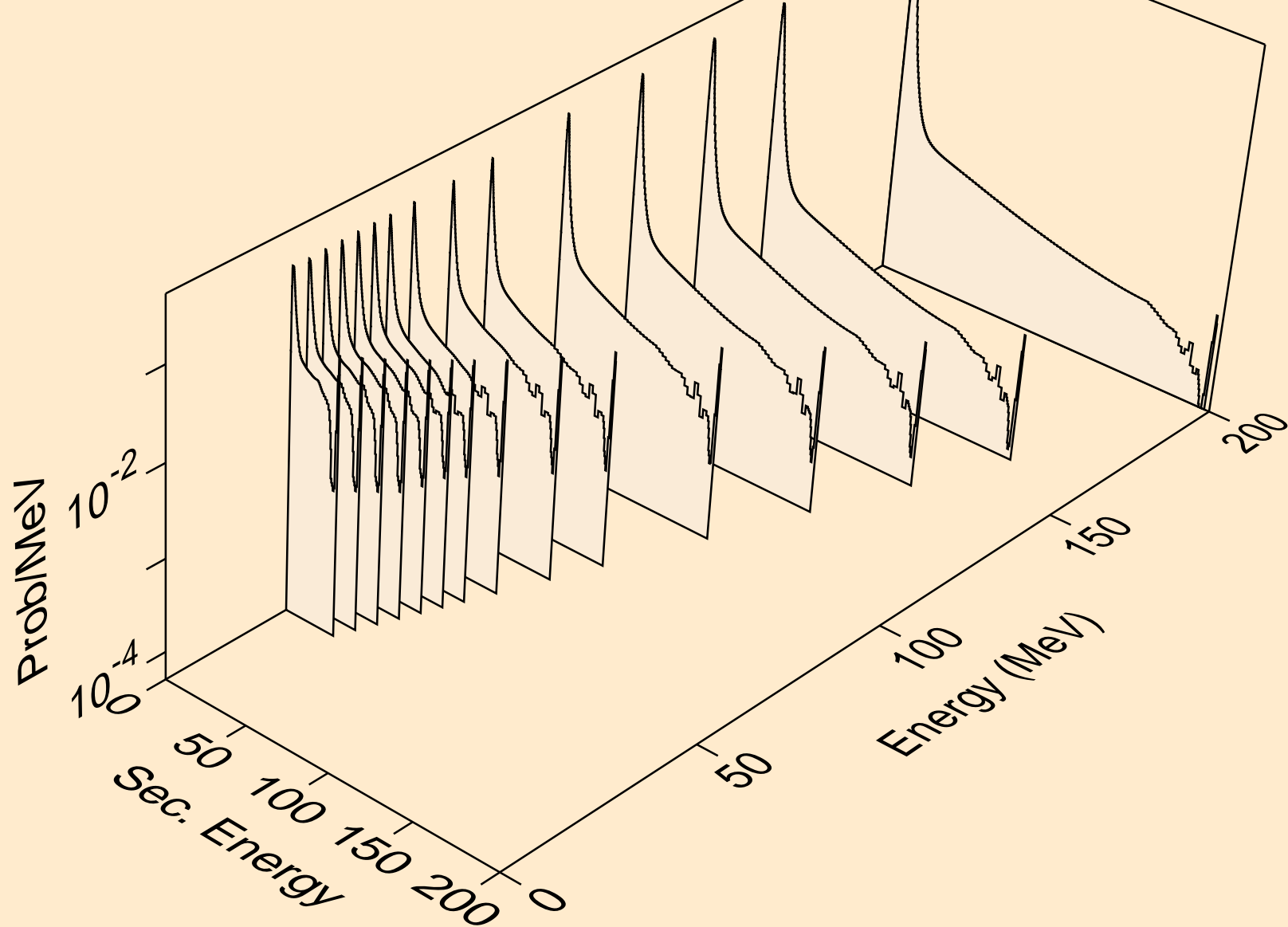
GD138 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*1)



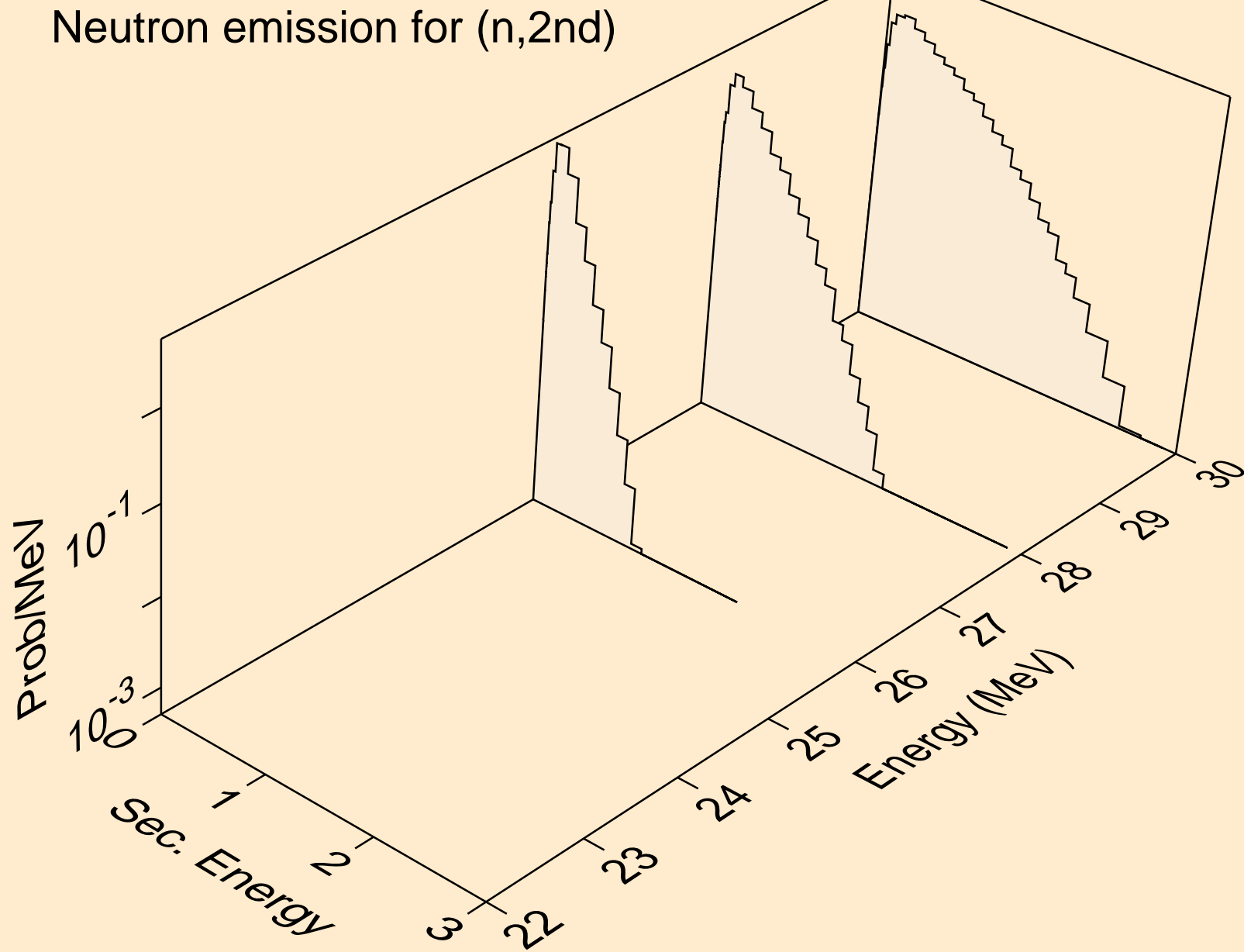
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angular distribution for (n,n\*2)



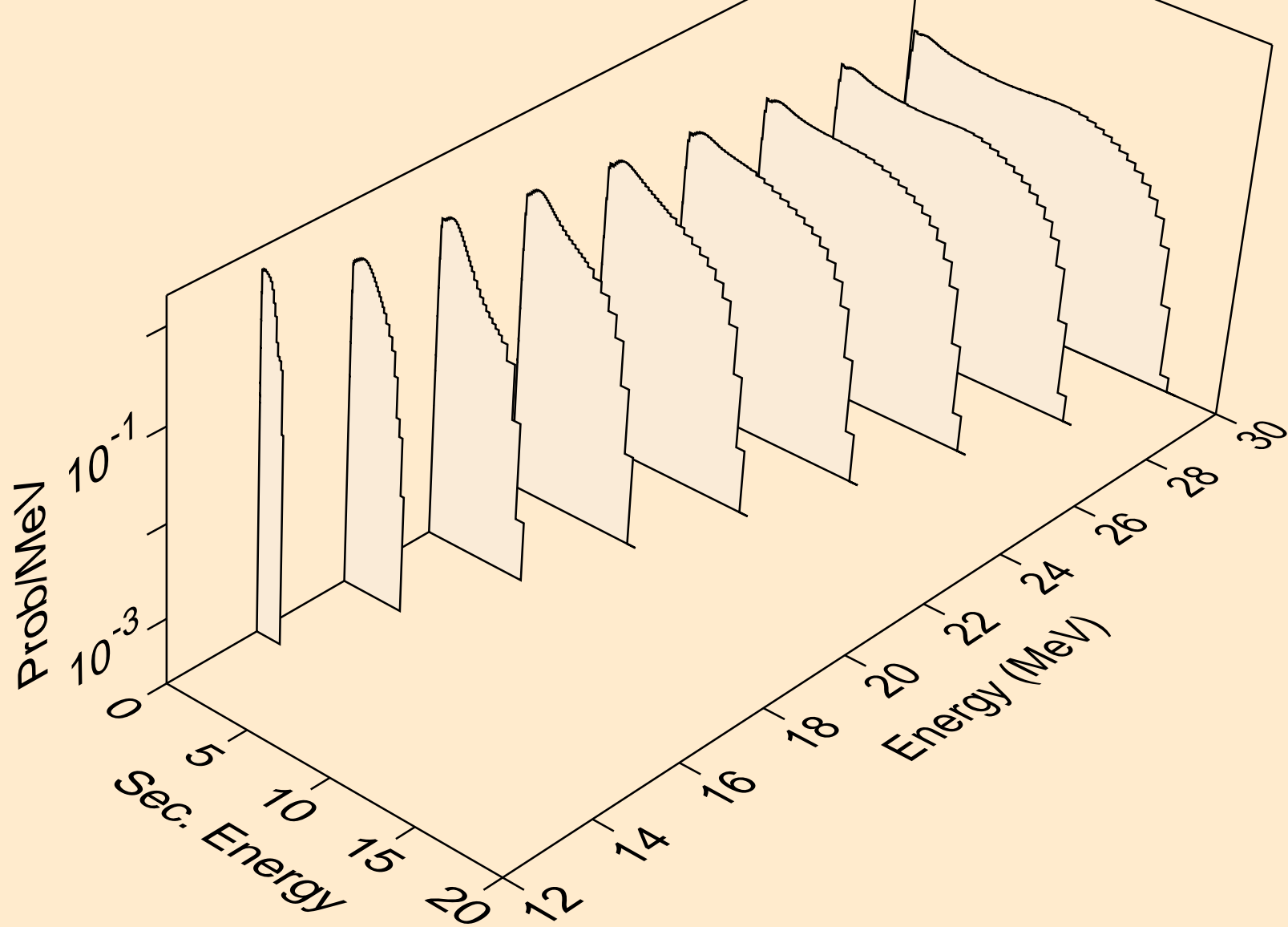
GD138 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,x)



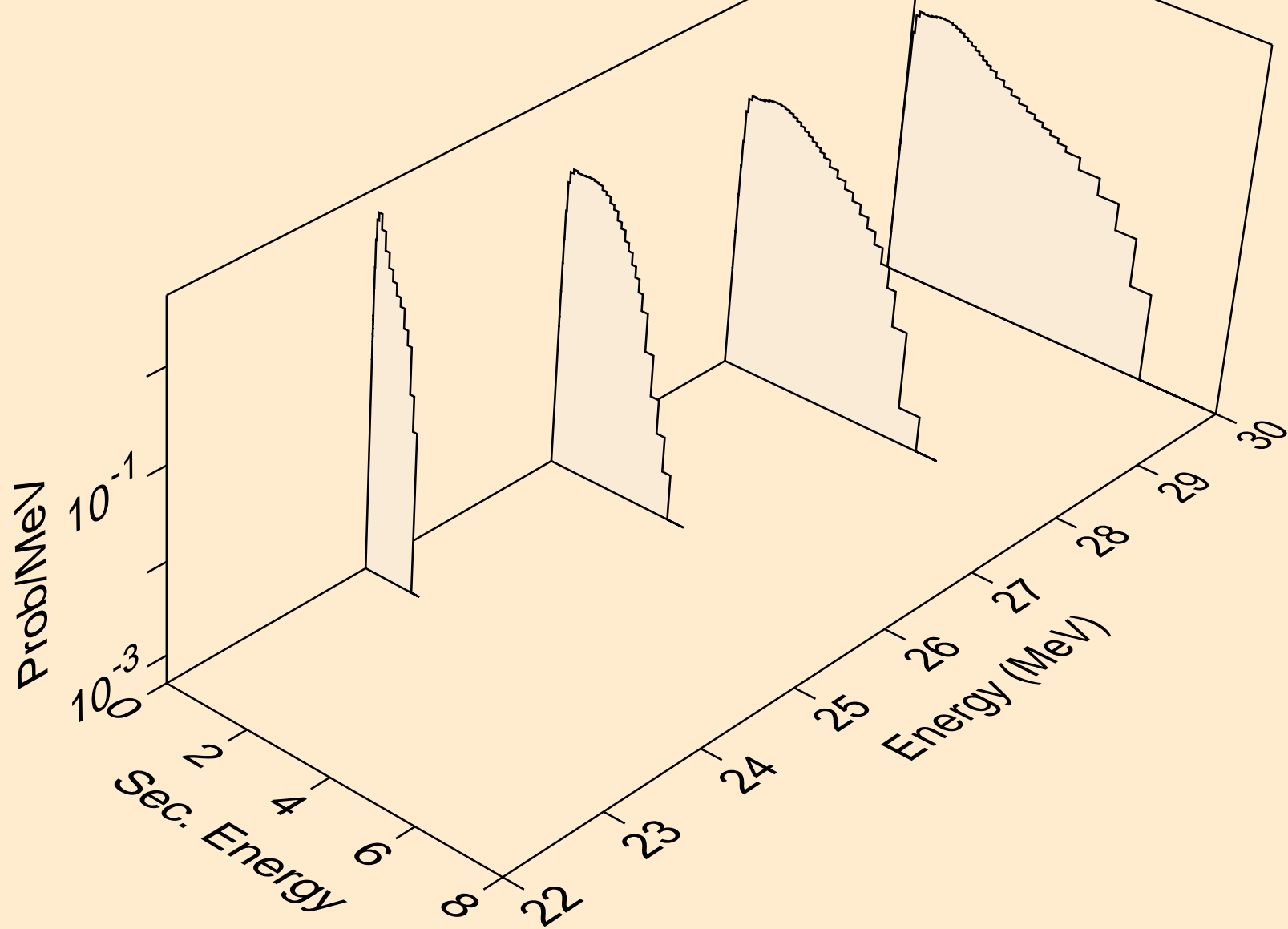
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Neutron emission for (n,2nd)



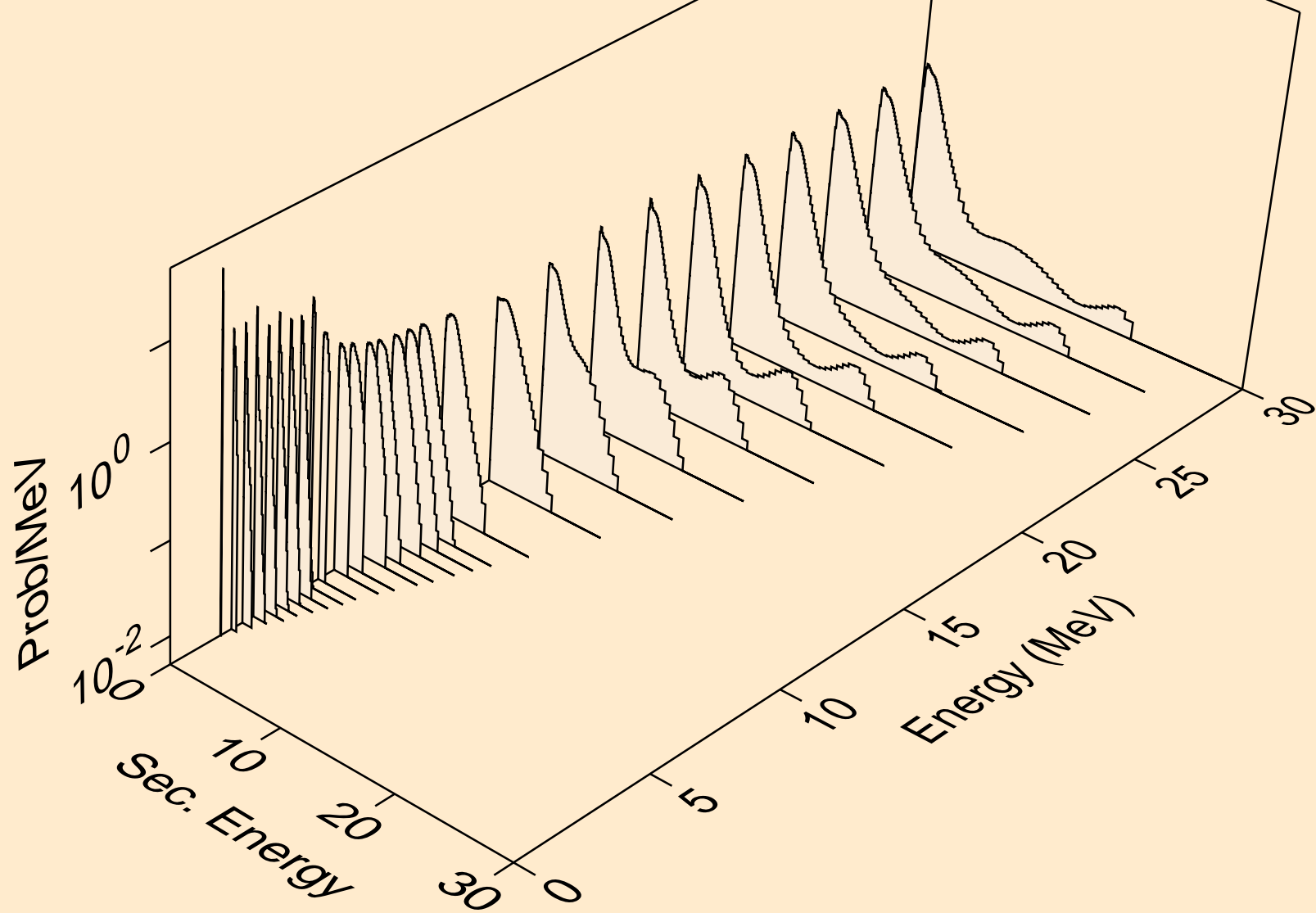
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Neutron emission for (n,2n)



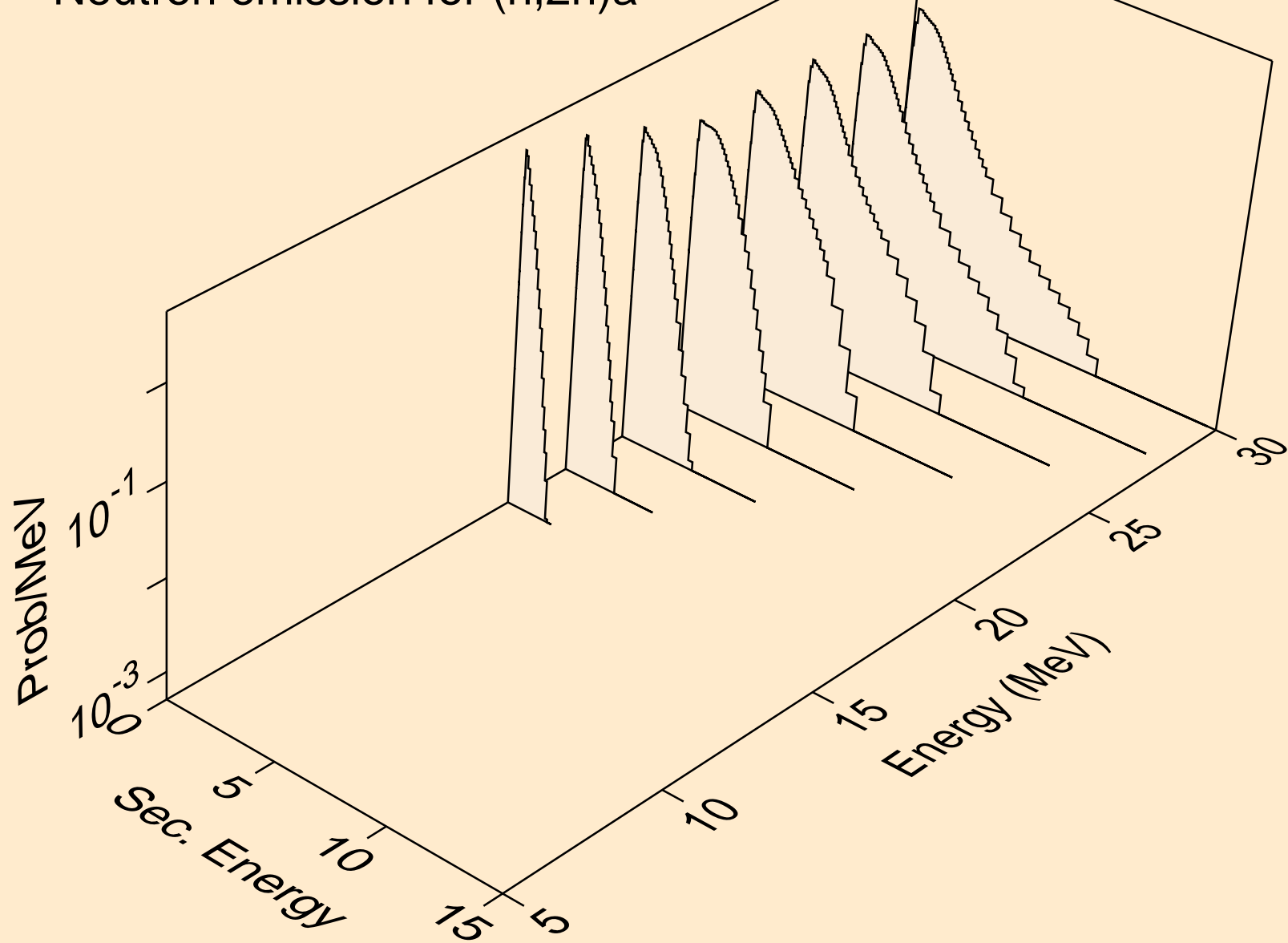
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Neutron emission for (n,3n)



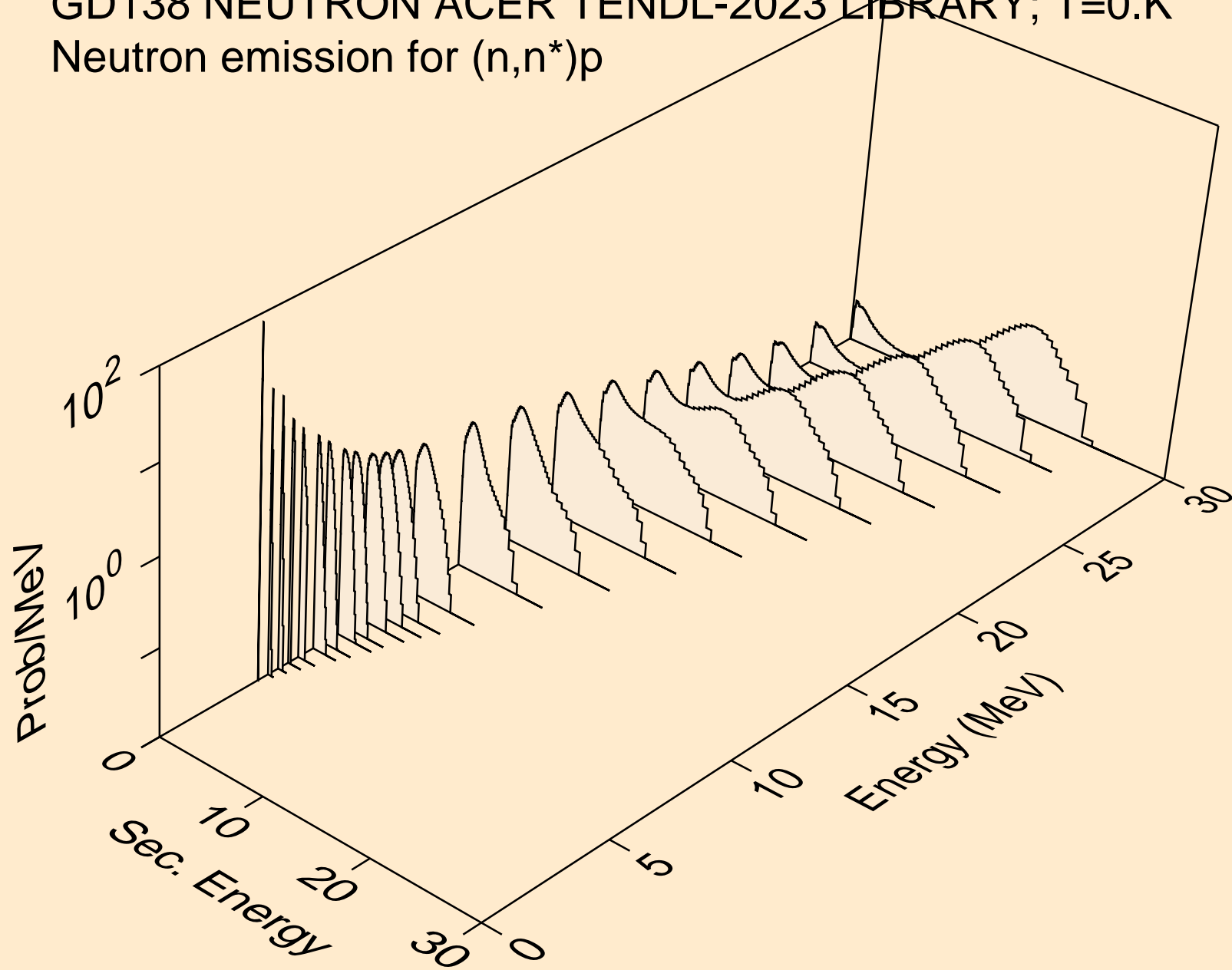
GD138 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,n\*)a



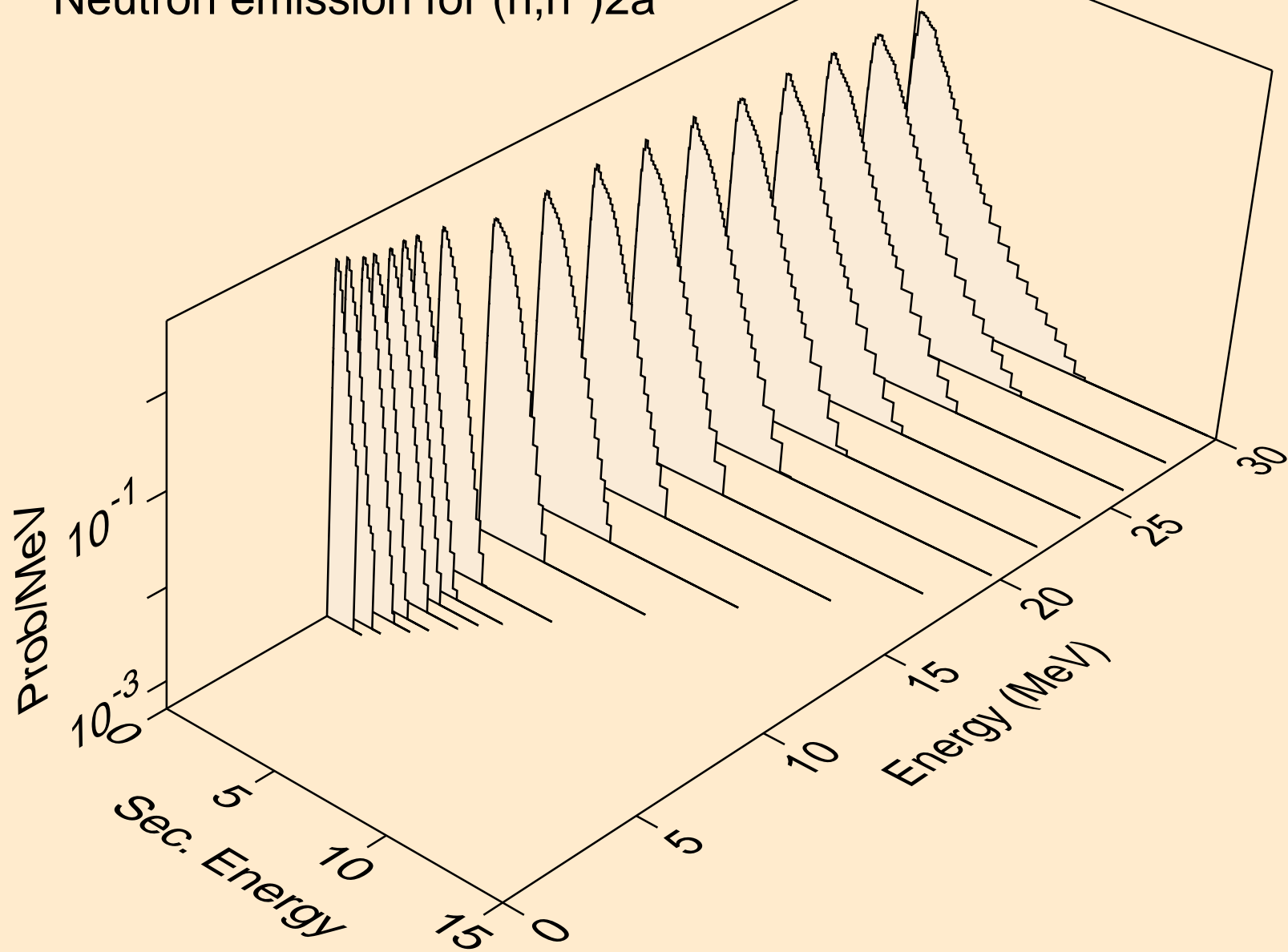
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Neutron emission for (n,2n)a



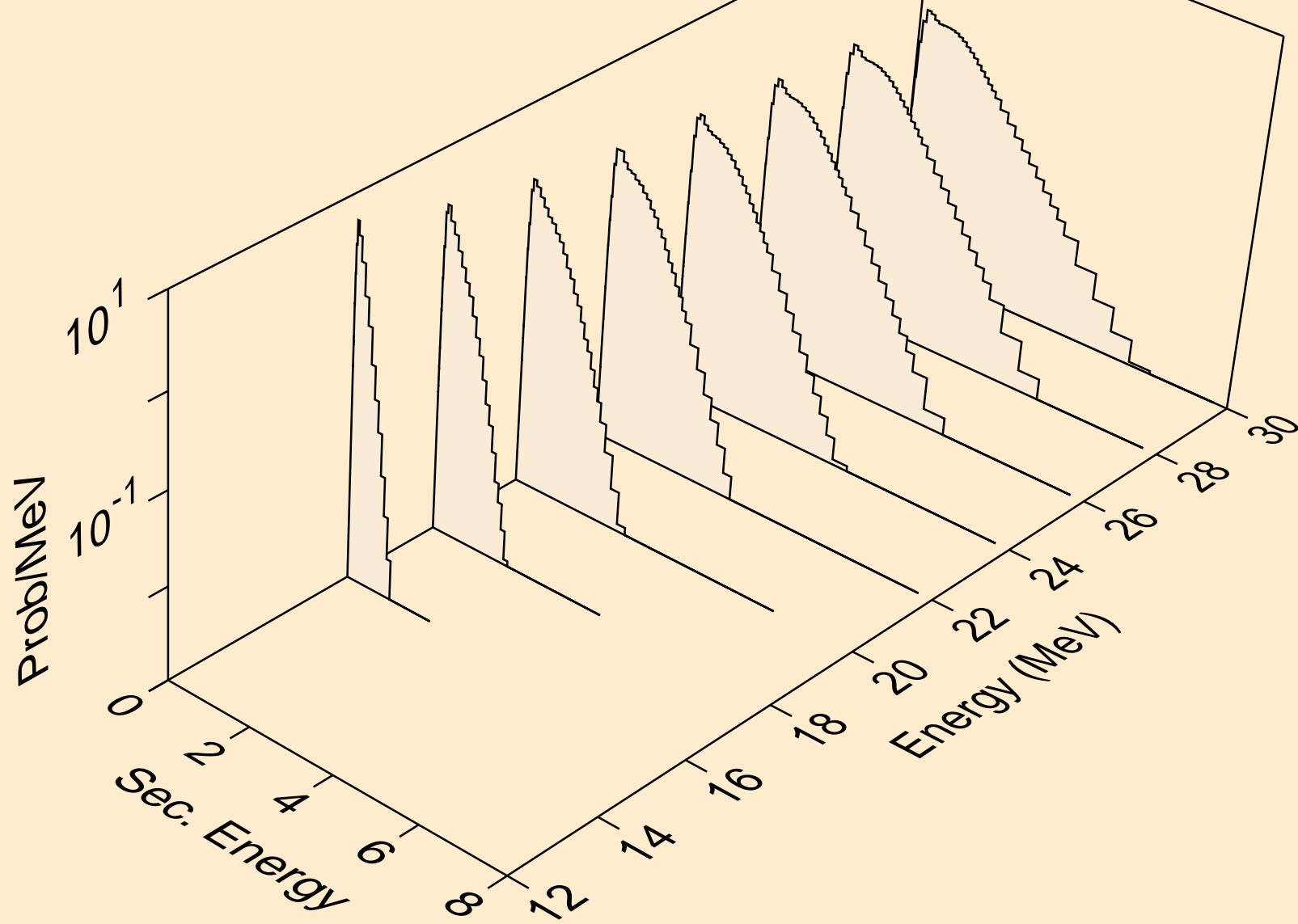
GD138 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,n\*)p



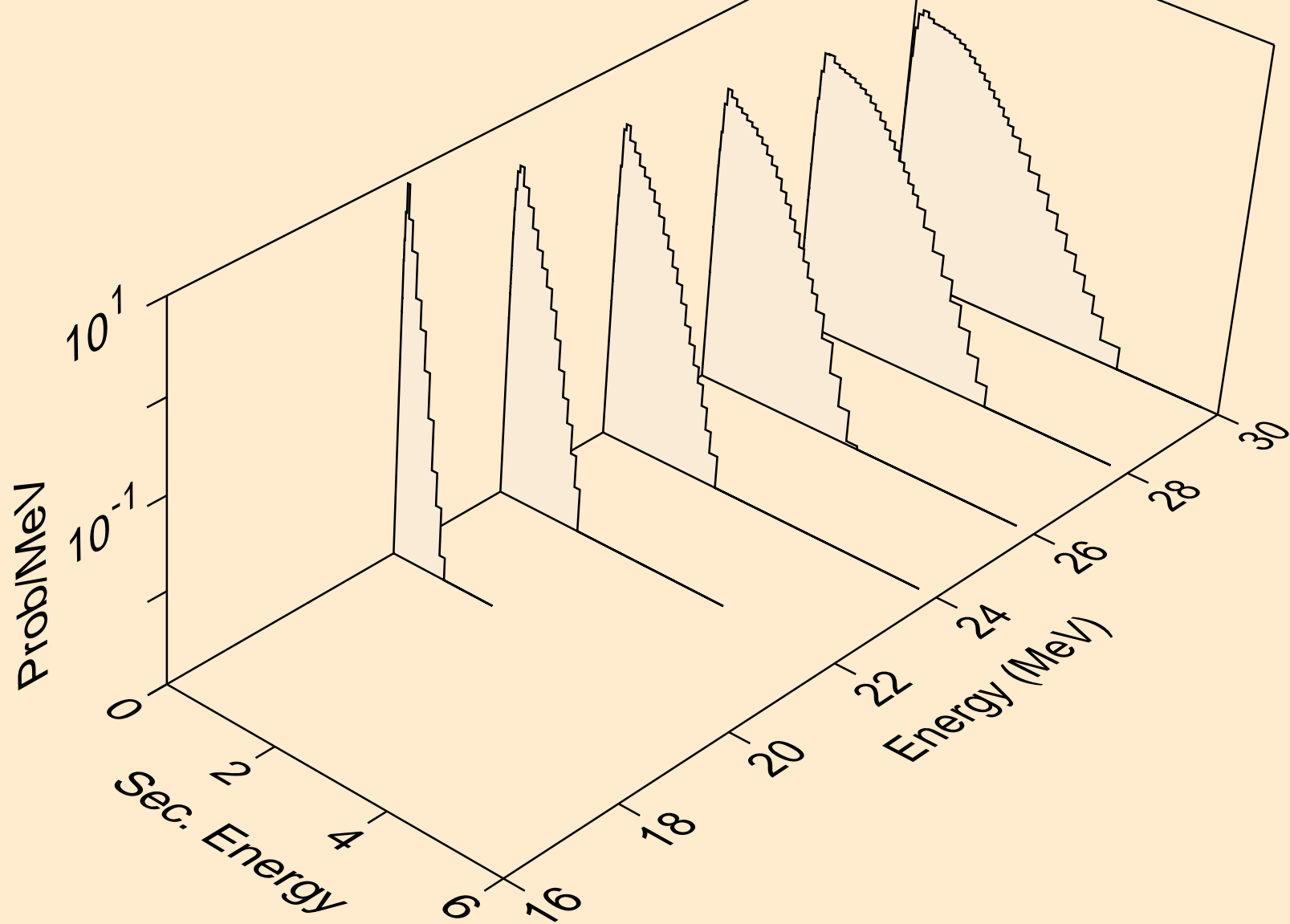
GD138 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,n\*)2a



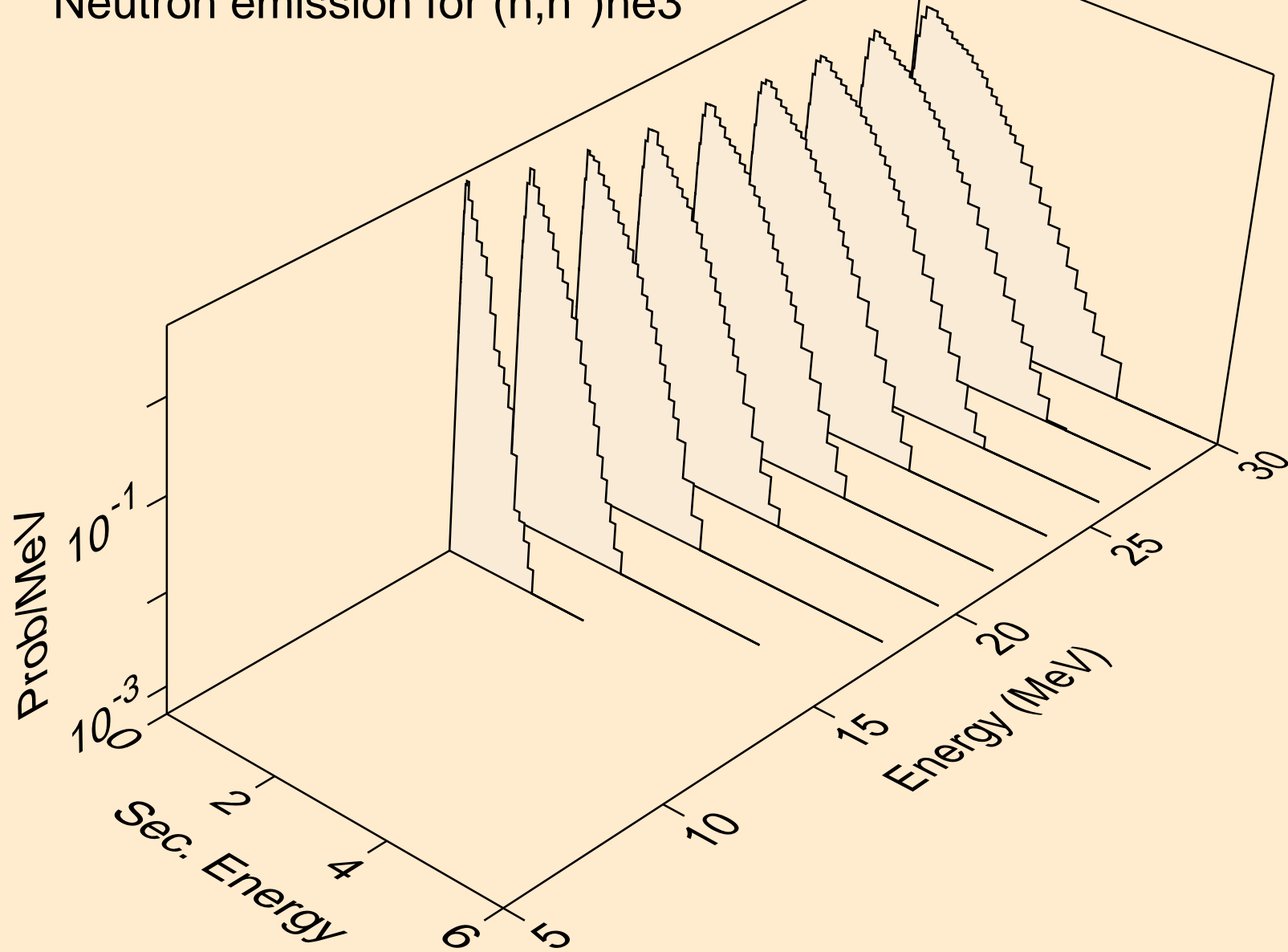
GD138 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,n\*)d



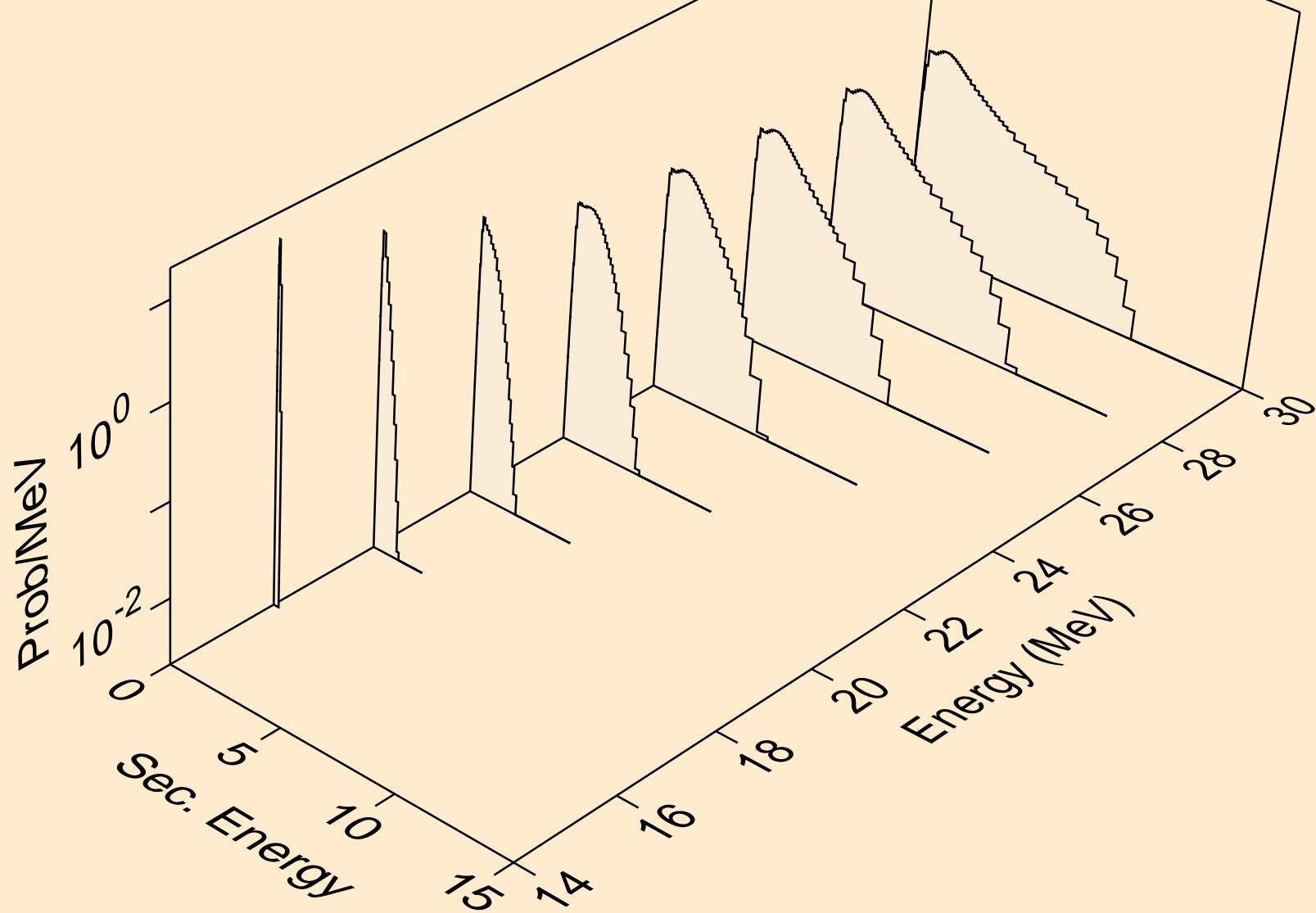
GD138 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,n\*)t



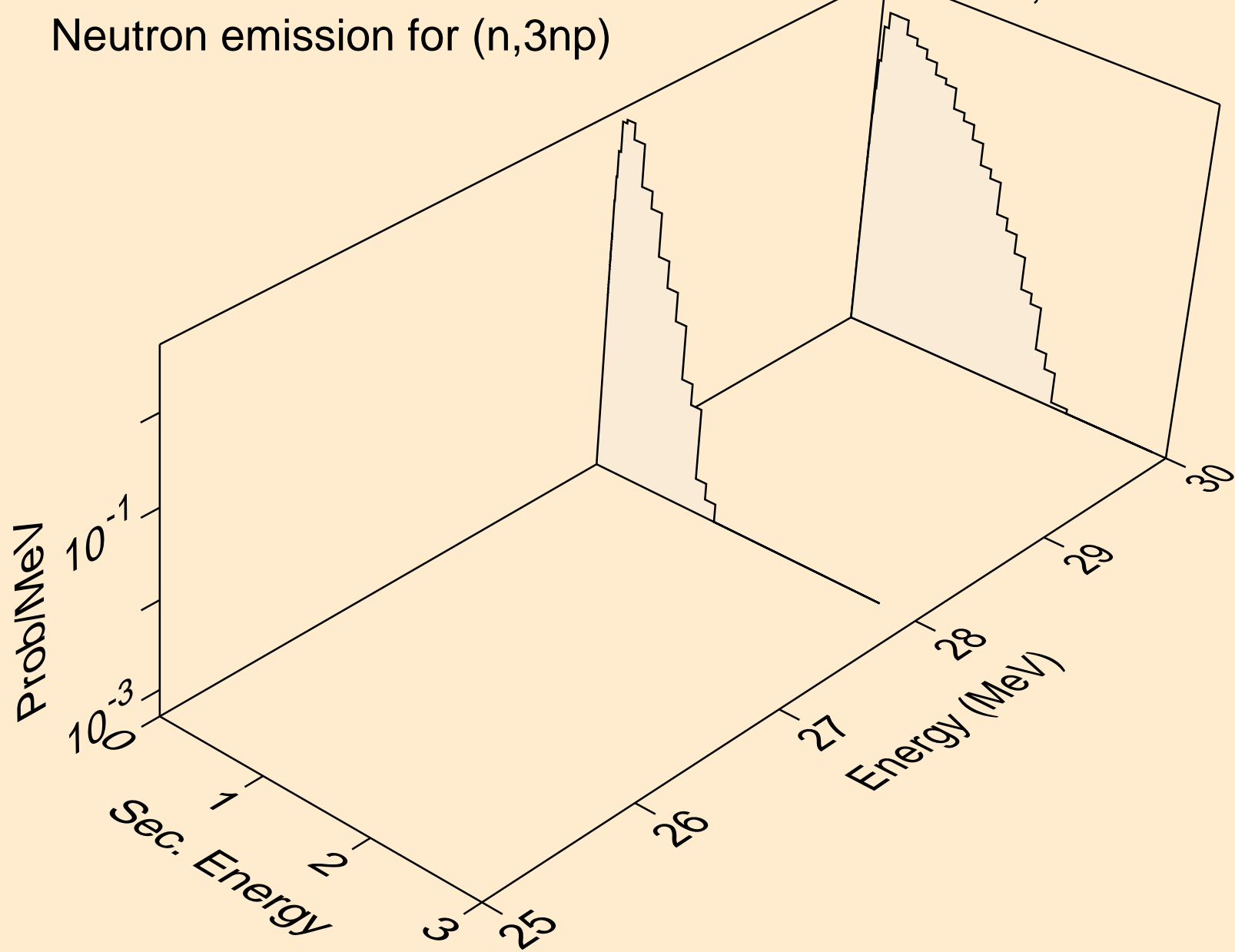
GD138 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,n\*)he3



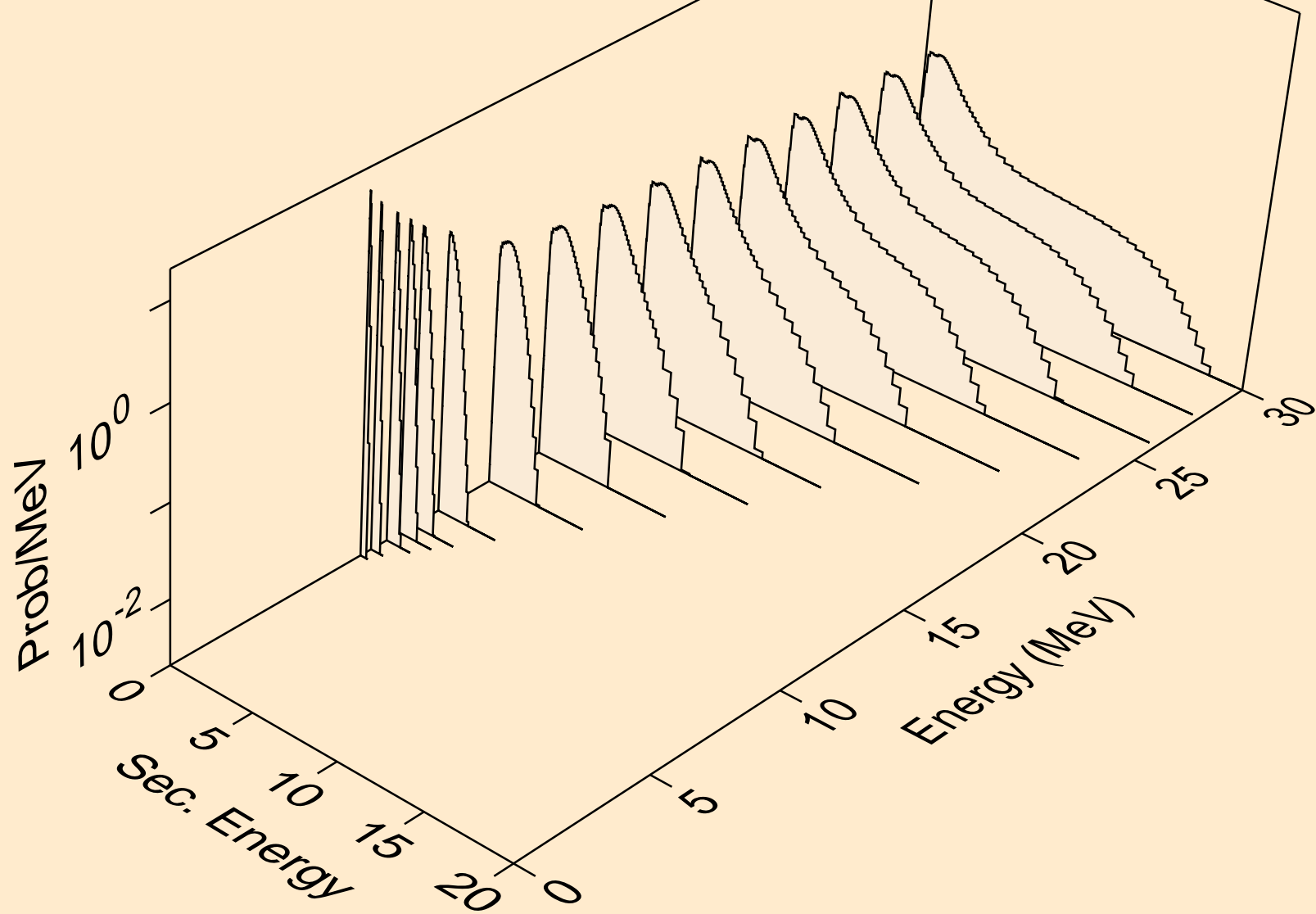
GD138 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,2np)



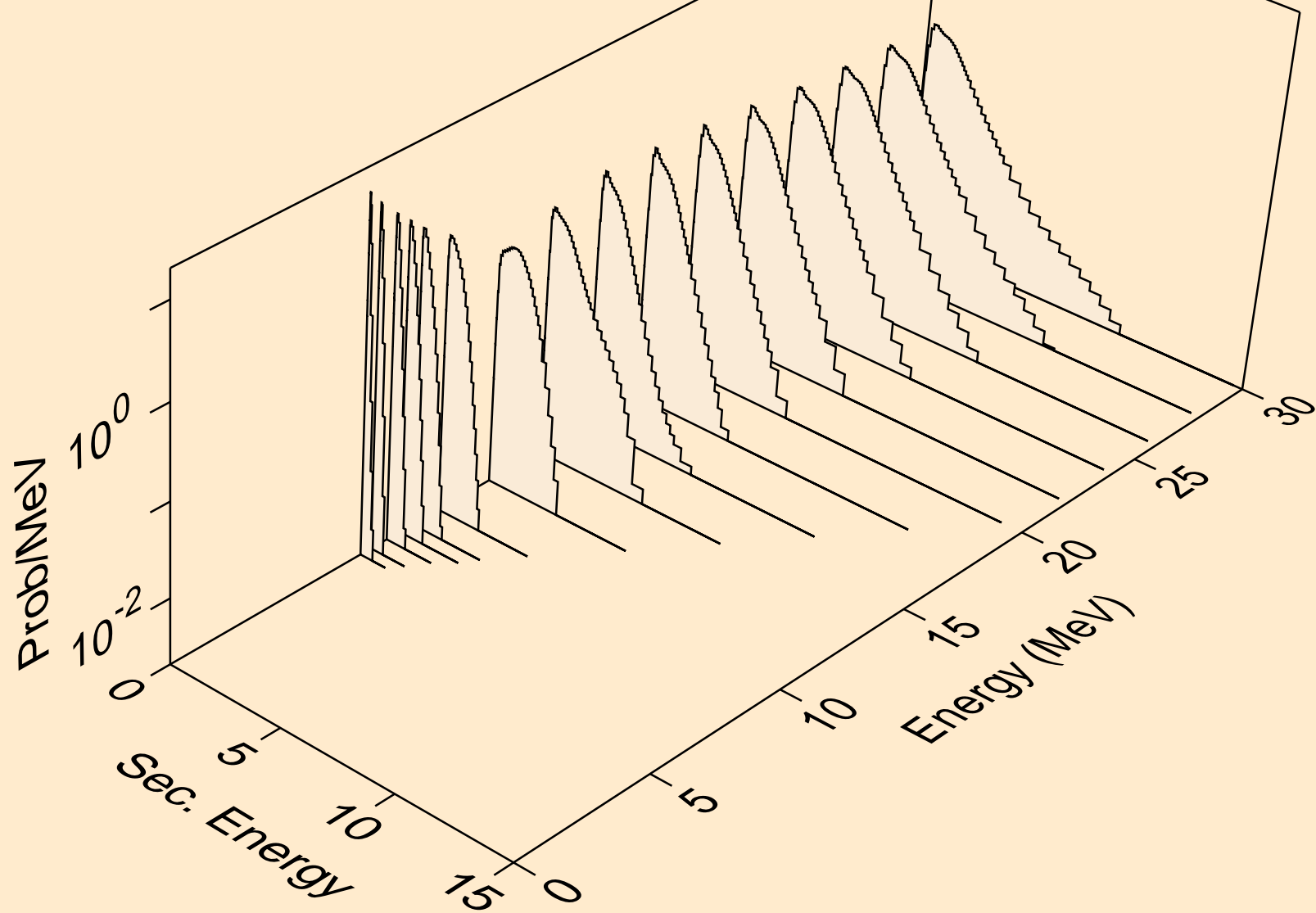
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Neutron emission for (n,3np)



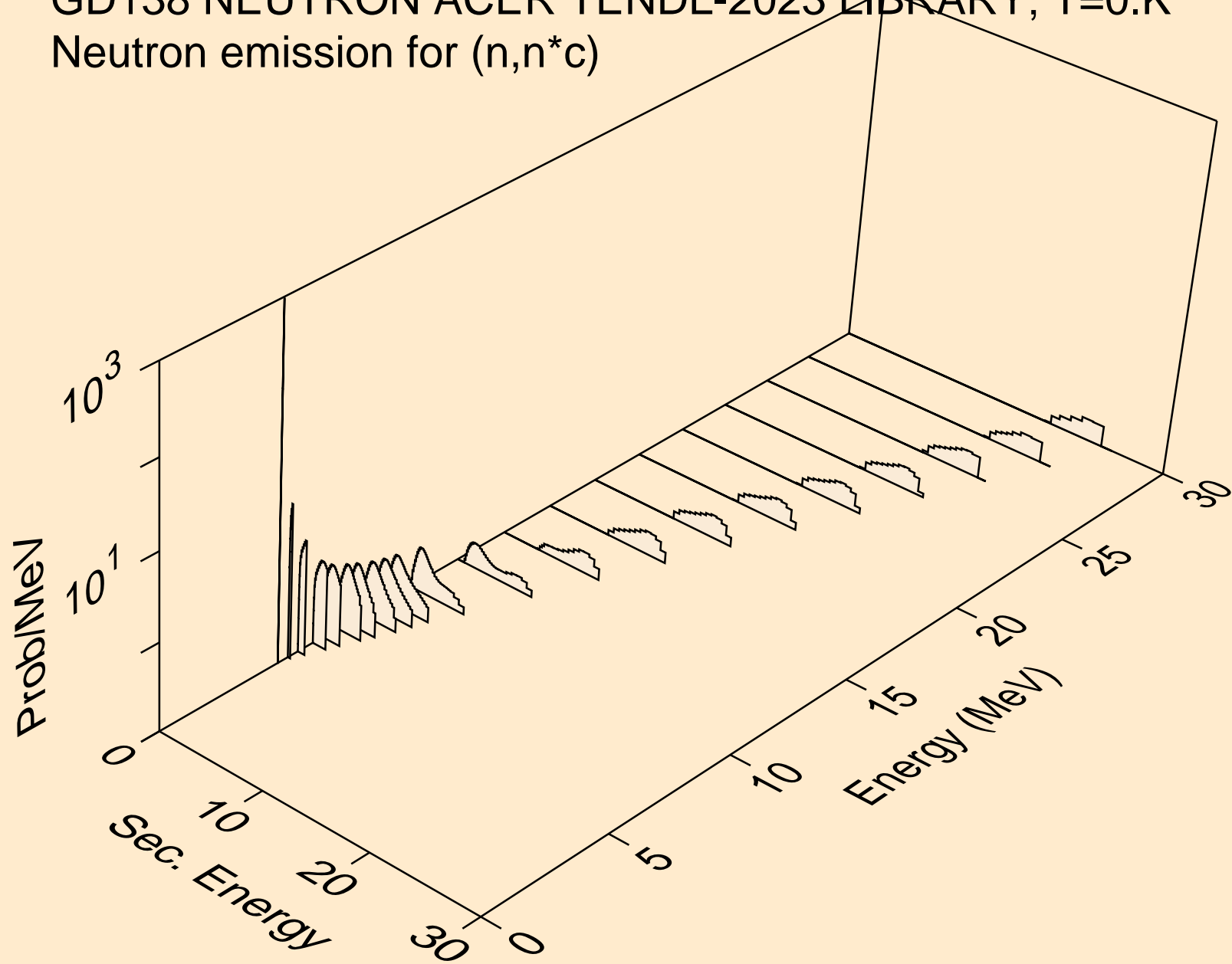
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Neutron emission for (n,n2p)



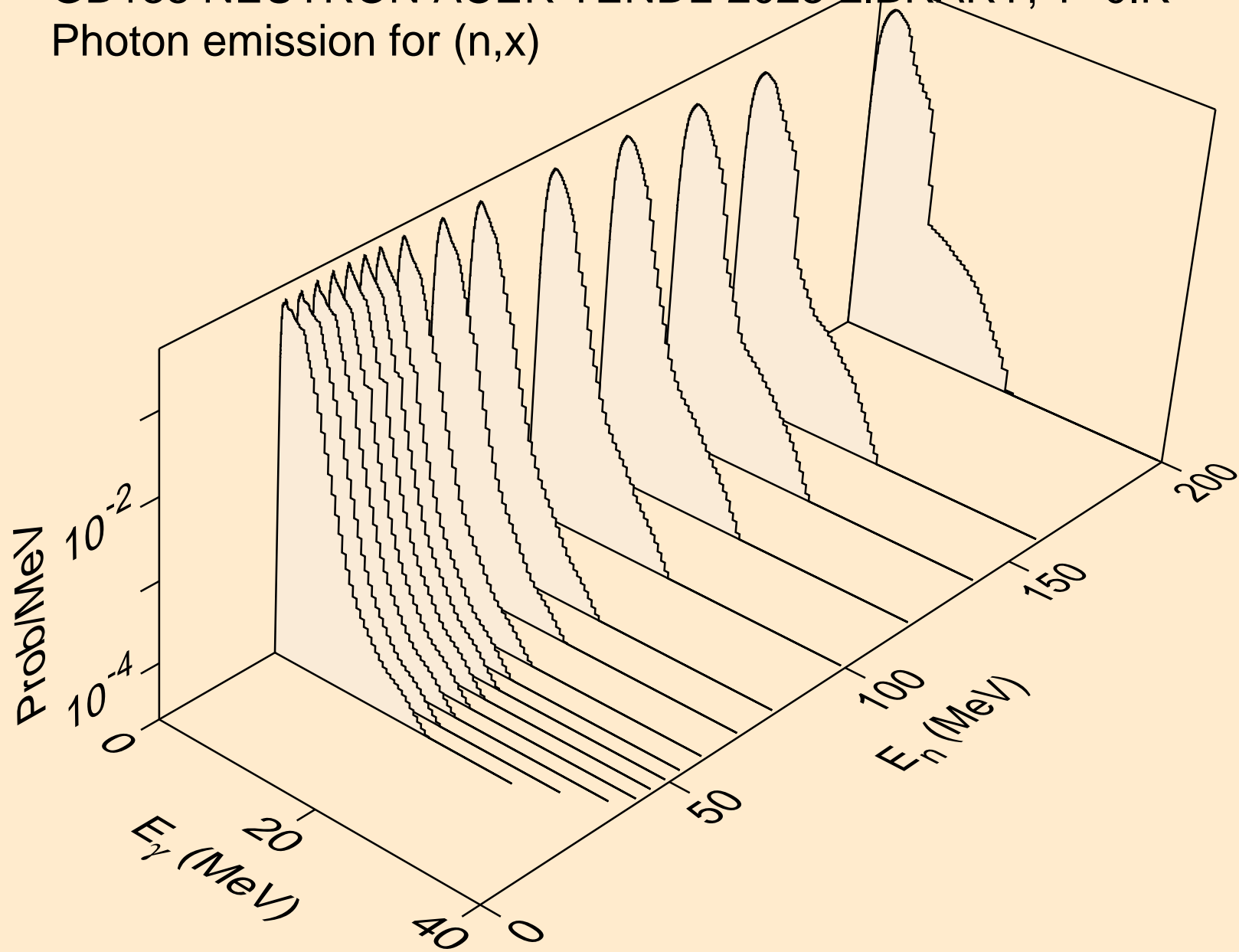
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Neutron emission for (n,npa)



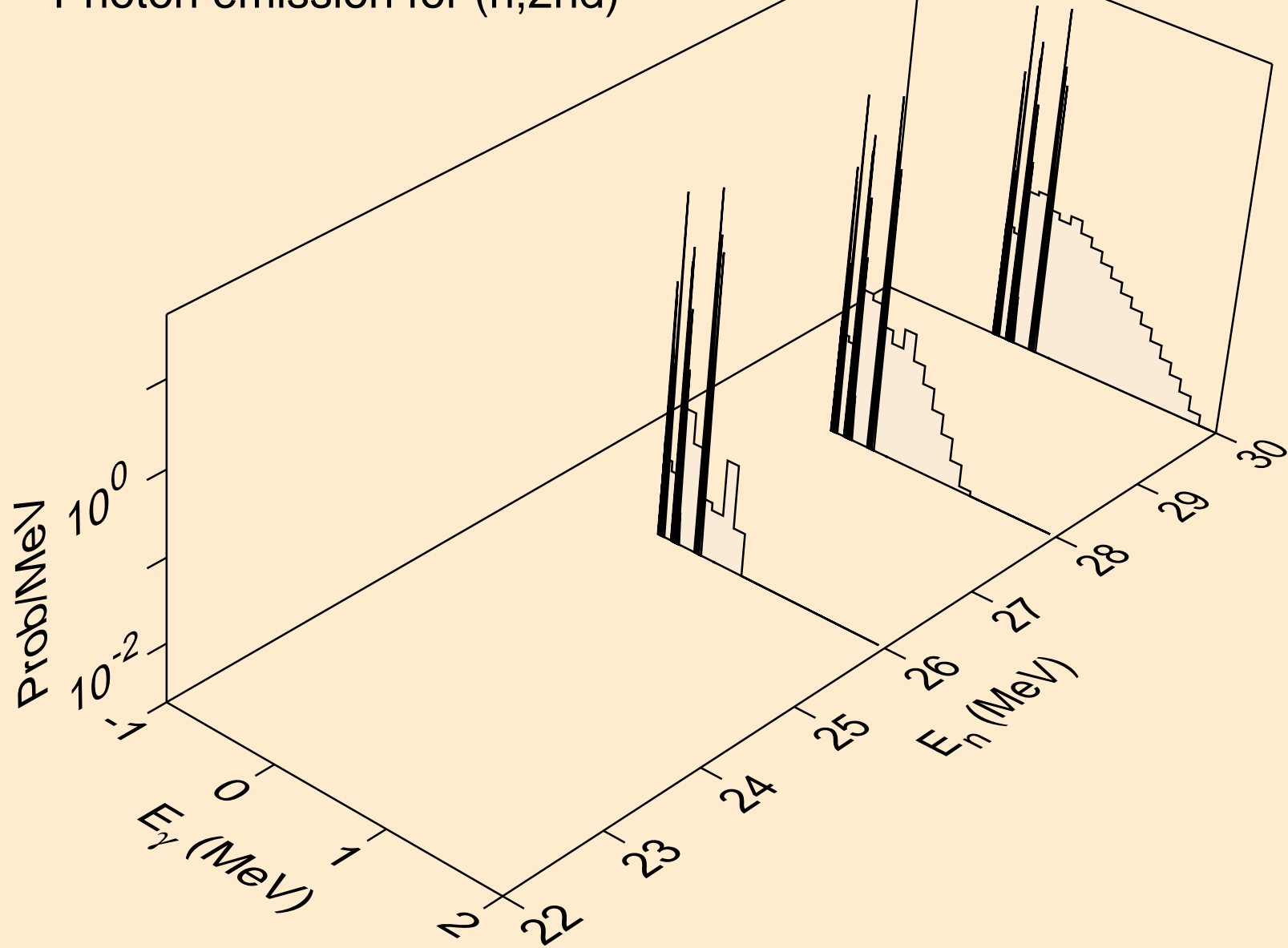
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Neutron emission for (n,n\*c)



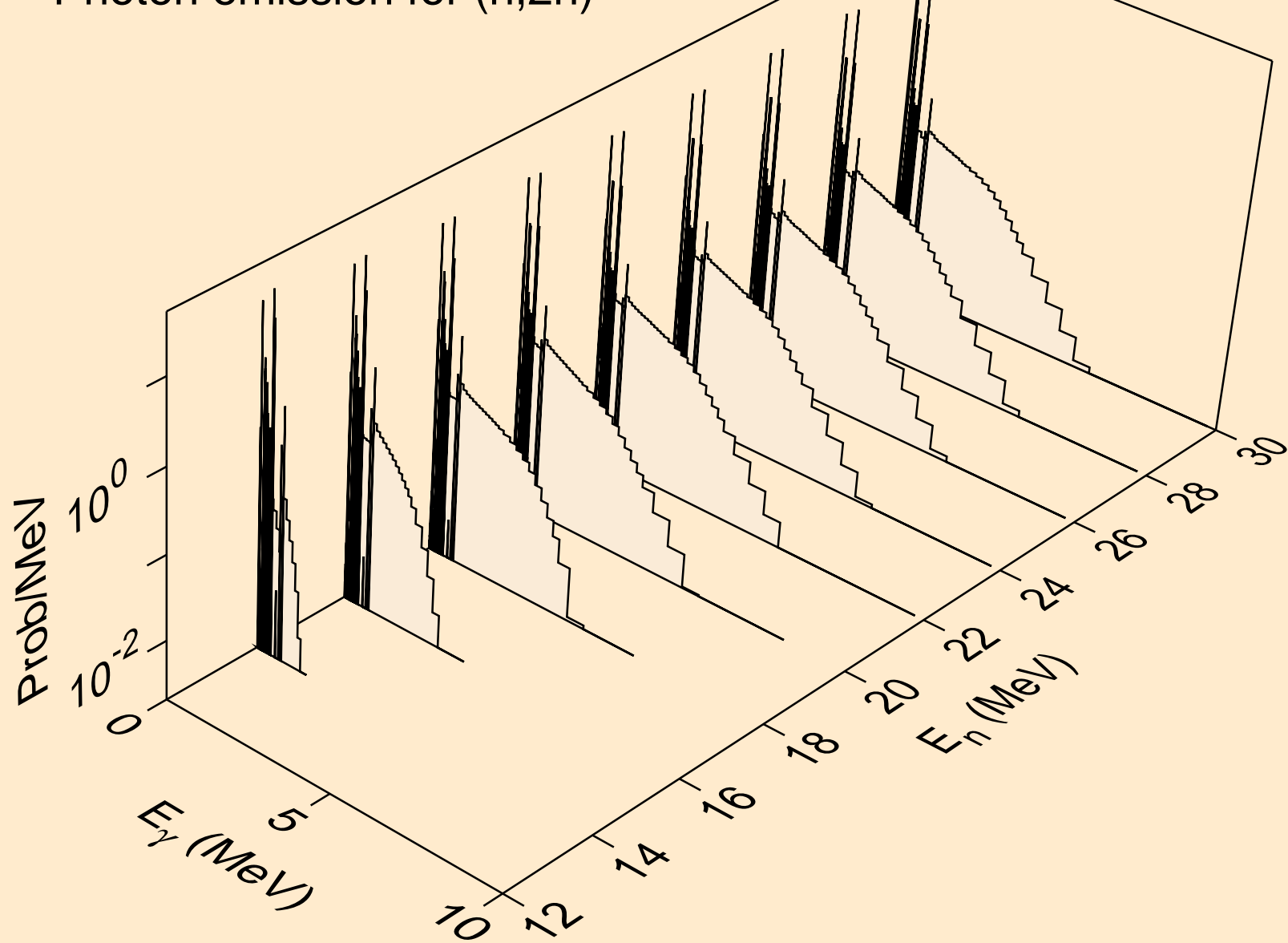
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Photon emission for (n,x)



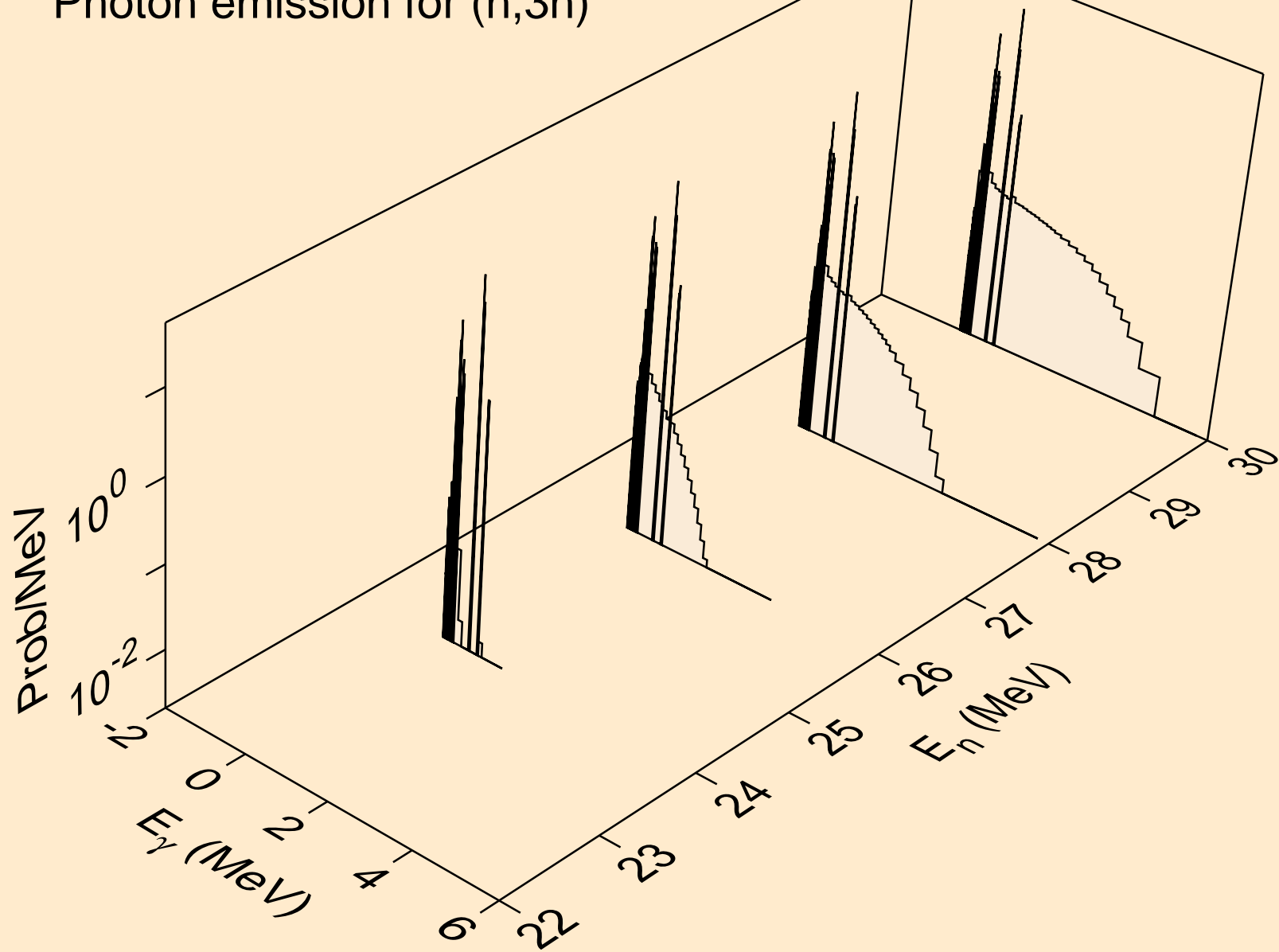
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Photon emission for (n,2nd)



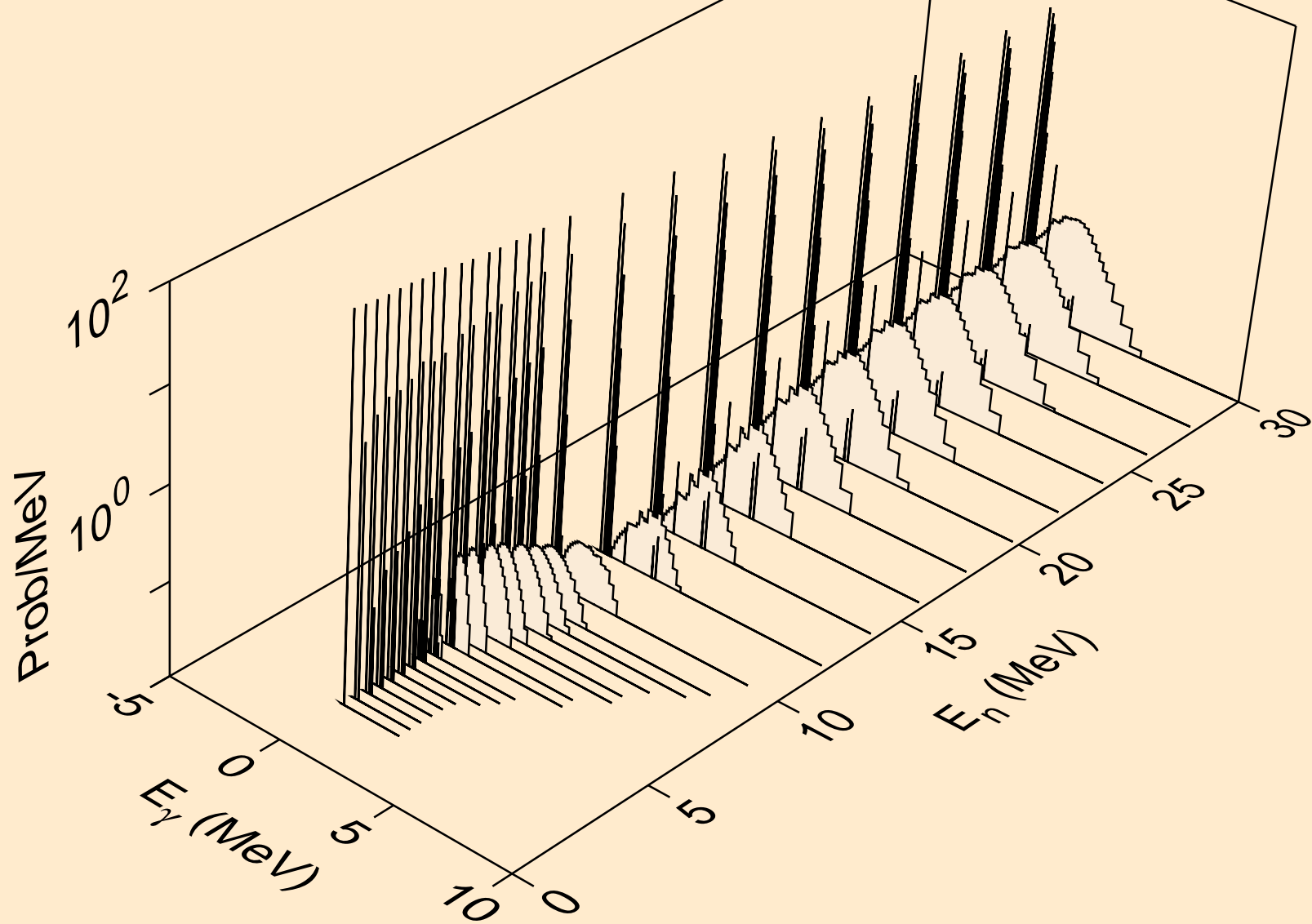
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Photon emission for (n,2n)



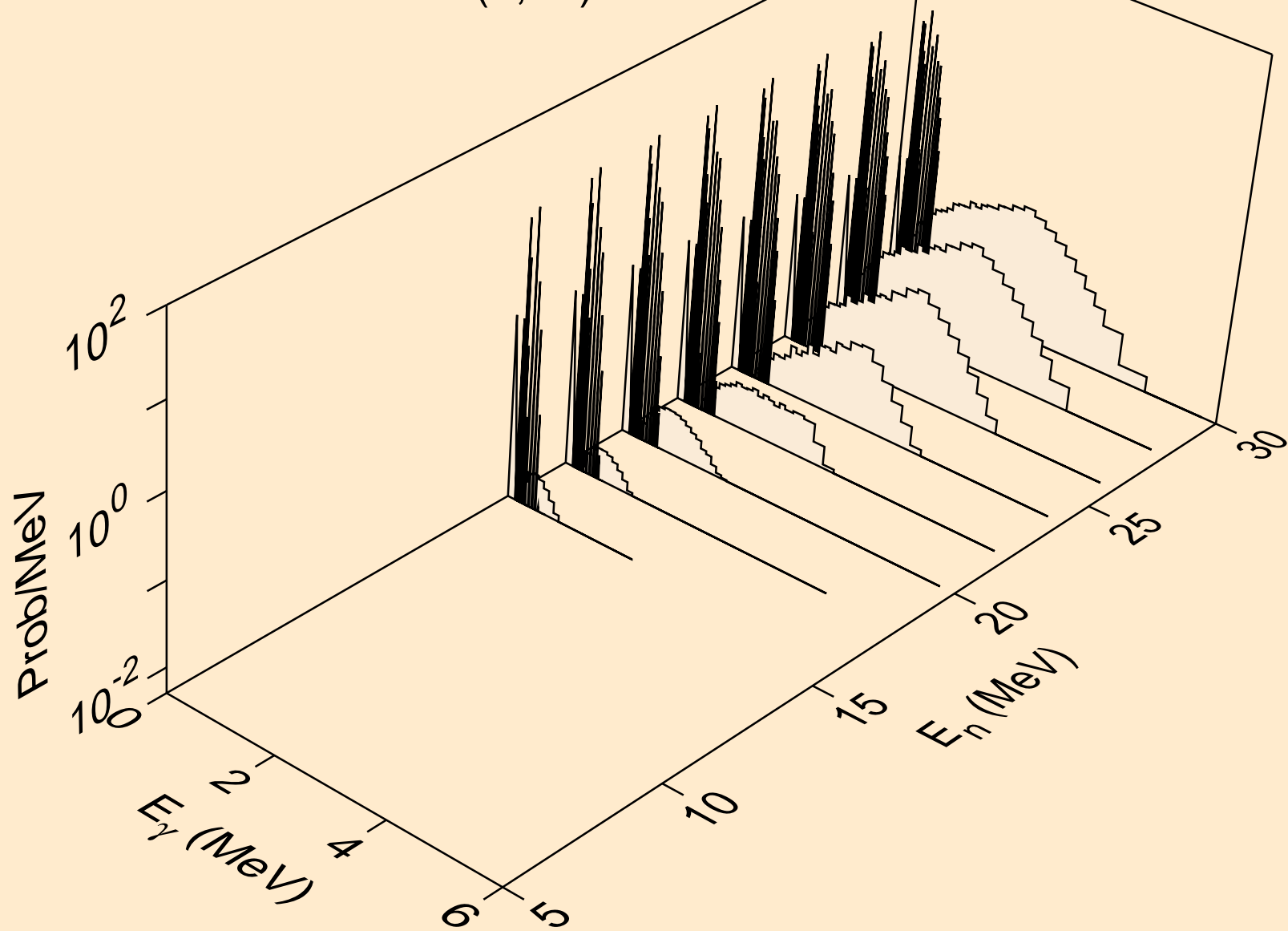
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Photon emission for (n,3n)



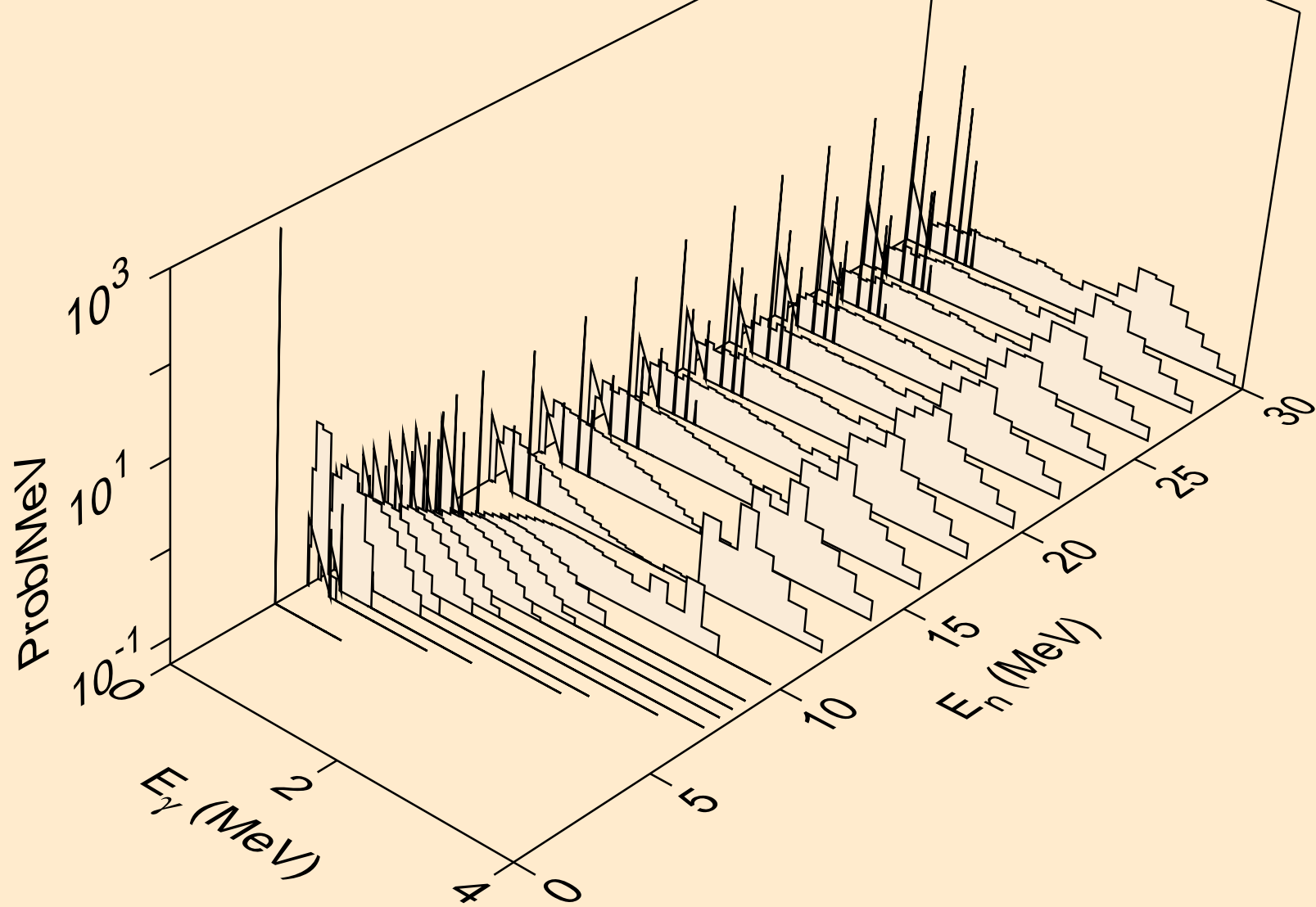
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Photon emission for (n,n\*)a



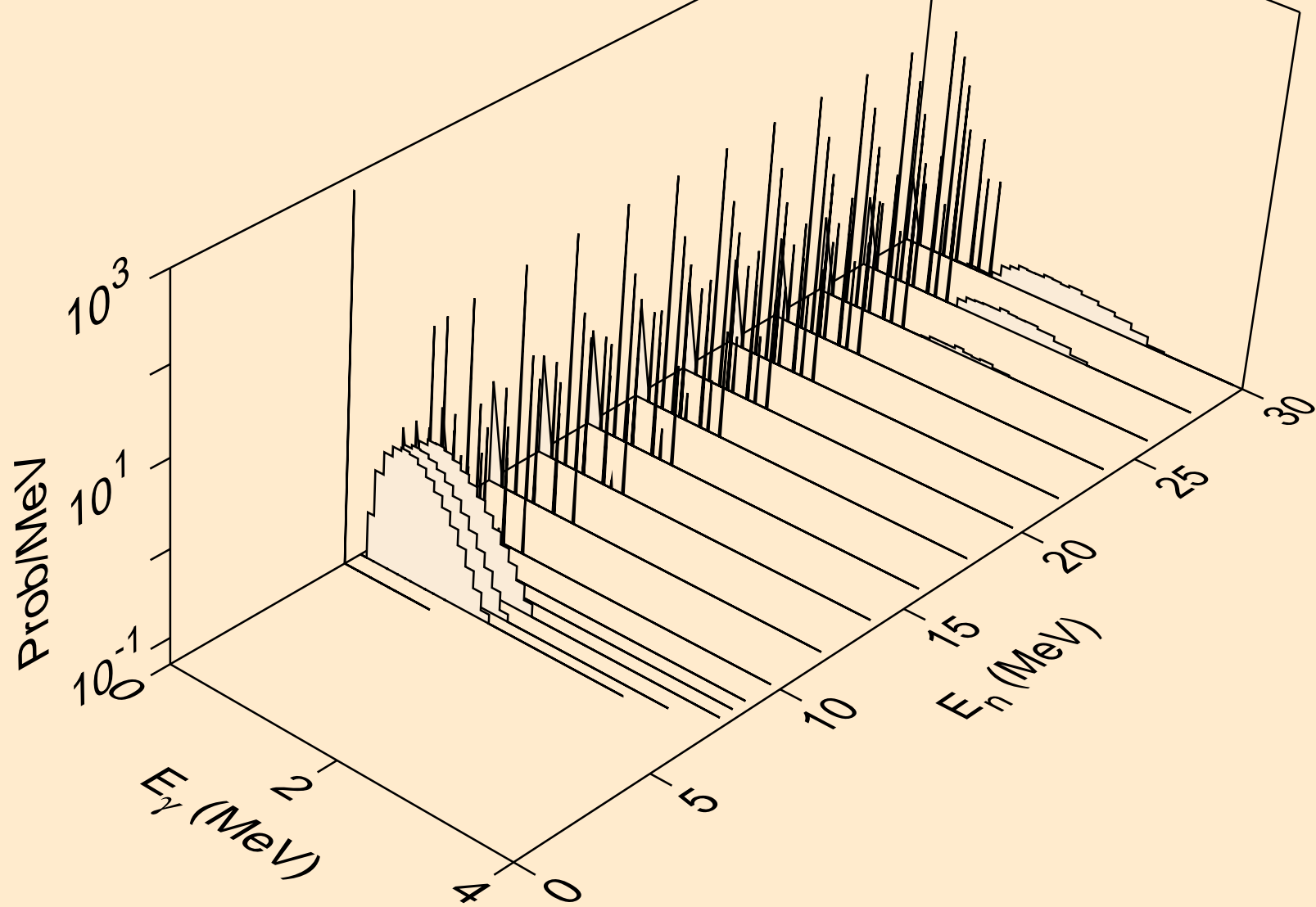
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Photon emission for (n,2n)a



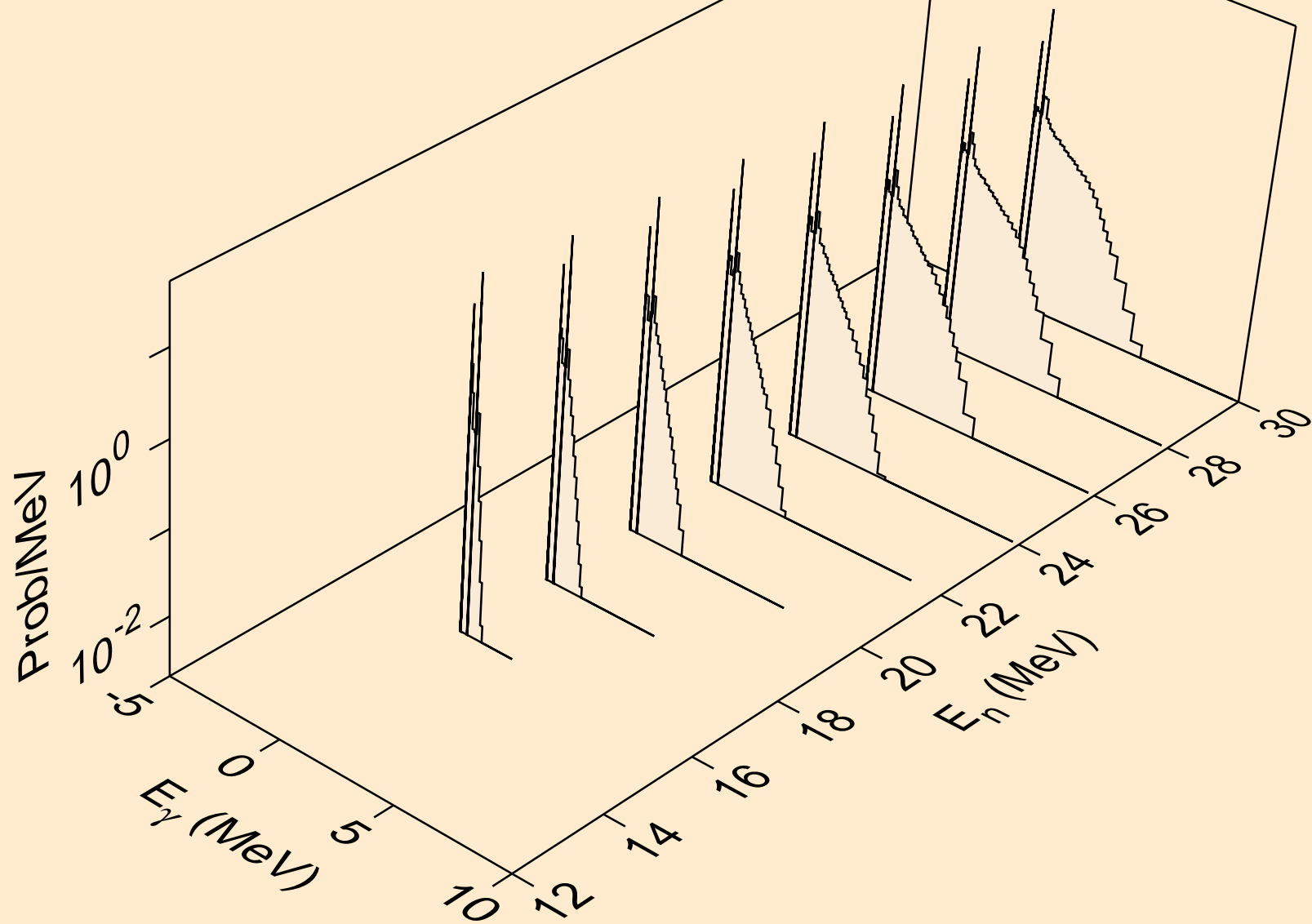
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Photon emission for (n,n\*)p



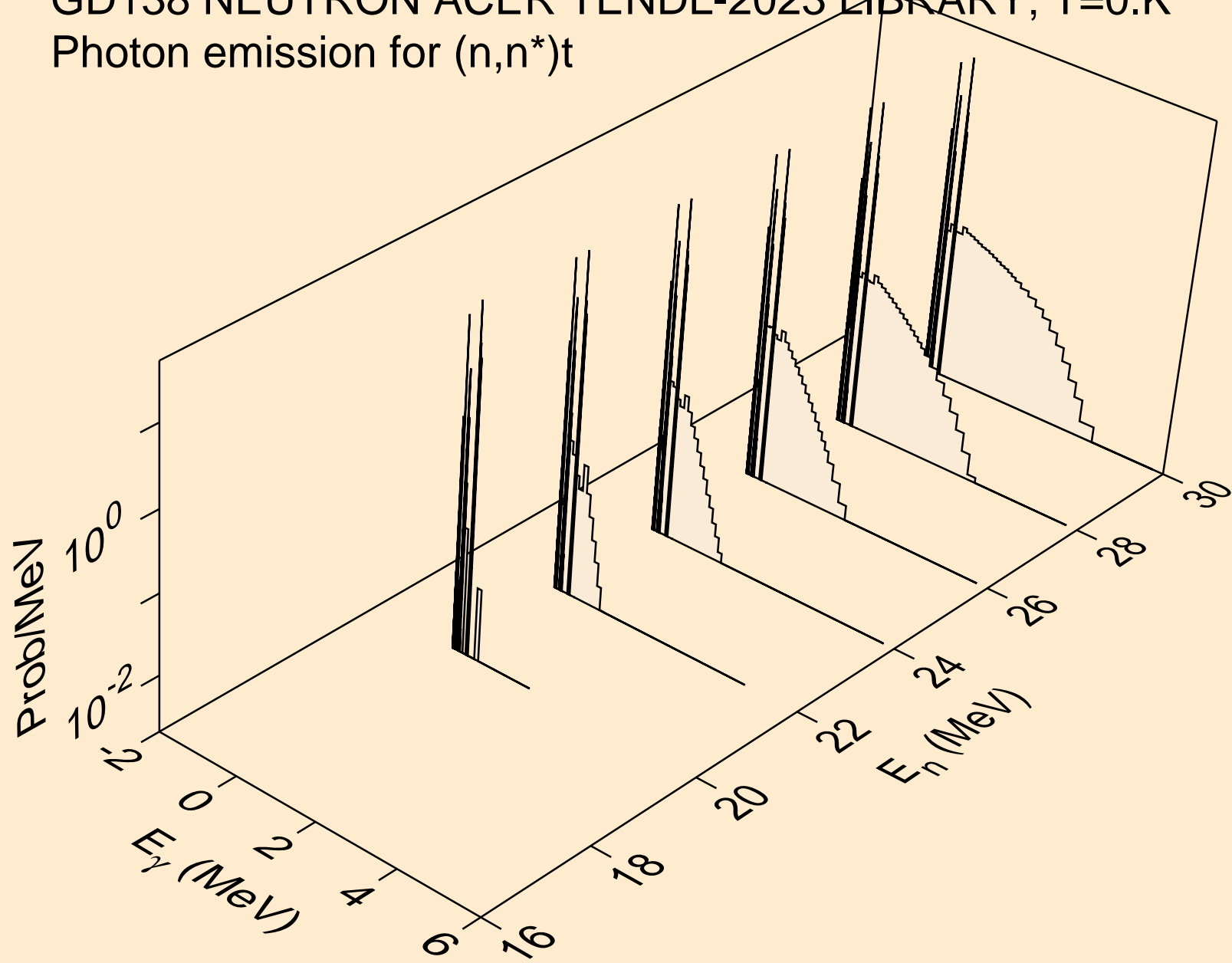
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Photon emission for (n,n\*)2a



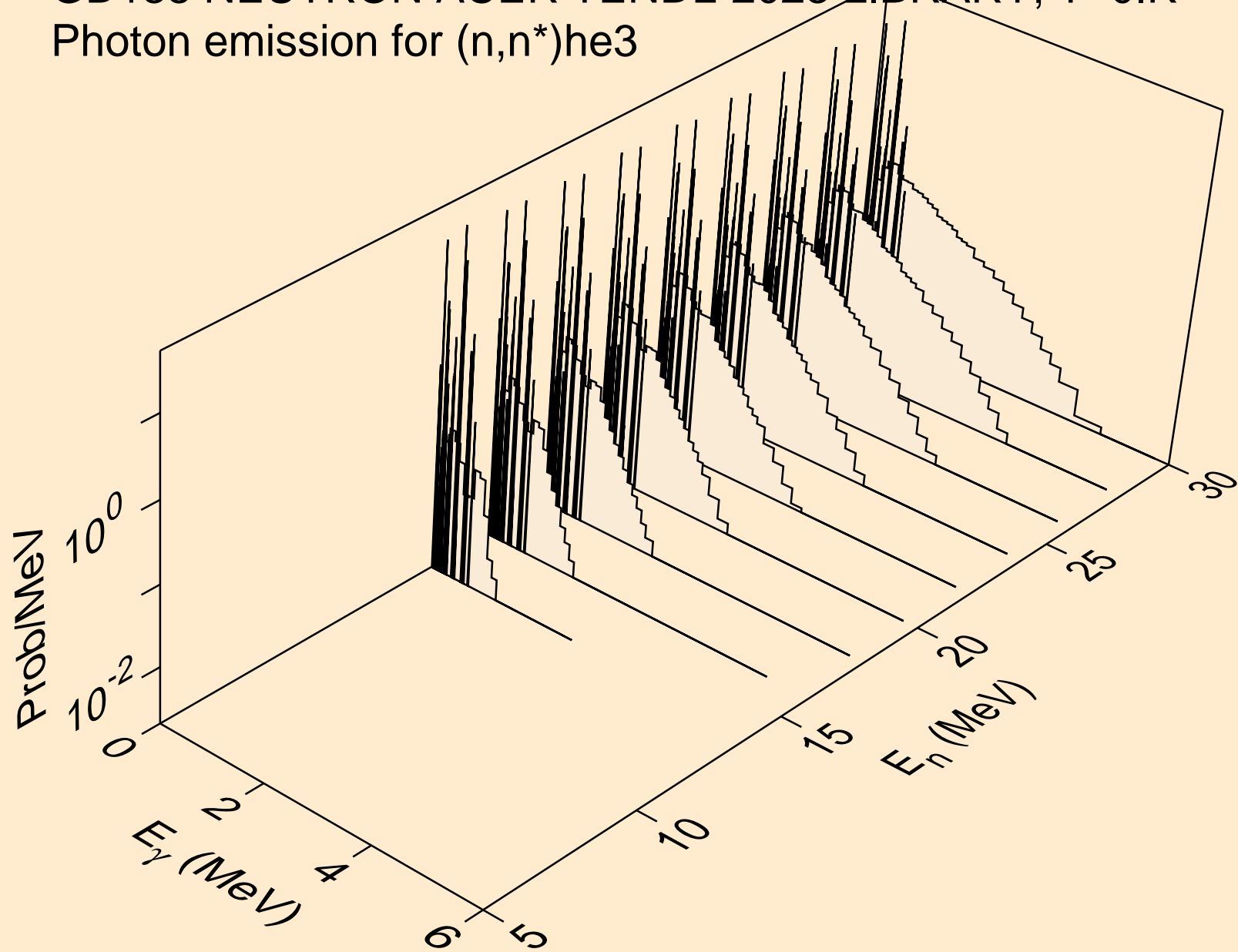
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Photon emission for (n,n\*)d



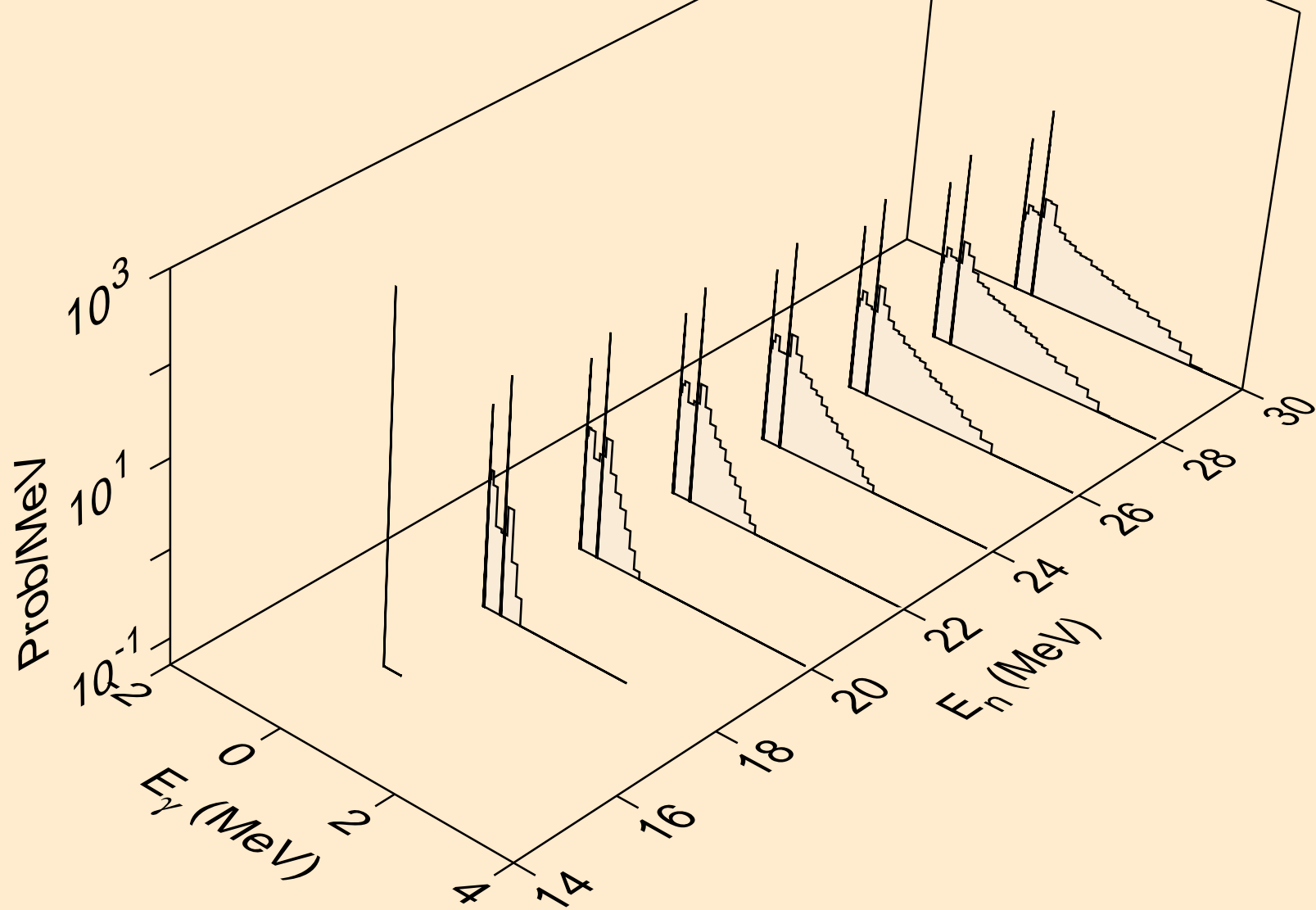
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Photon emission for (n,n\*)t



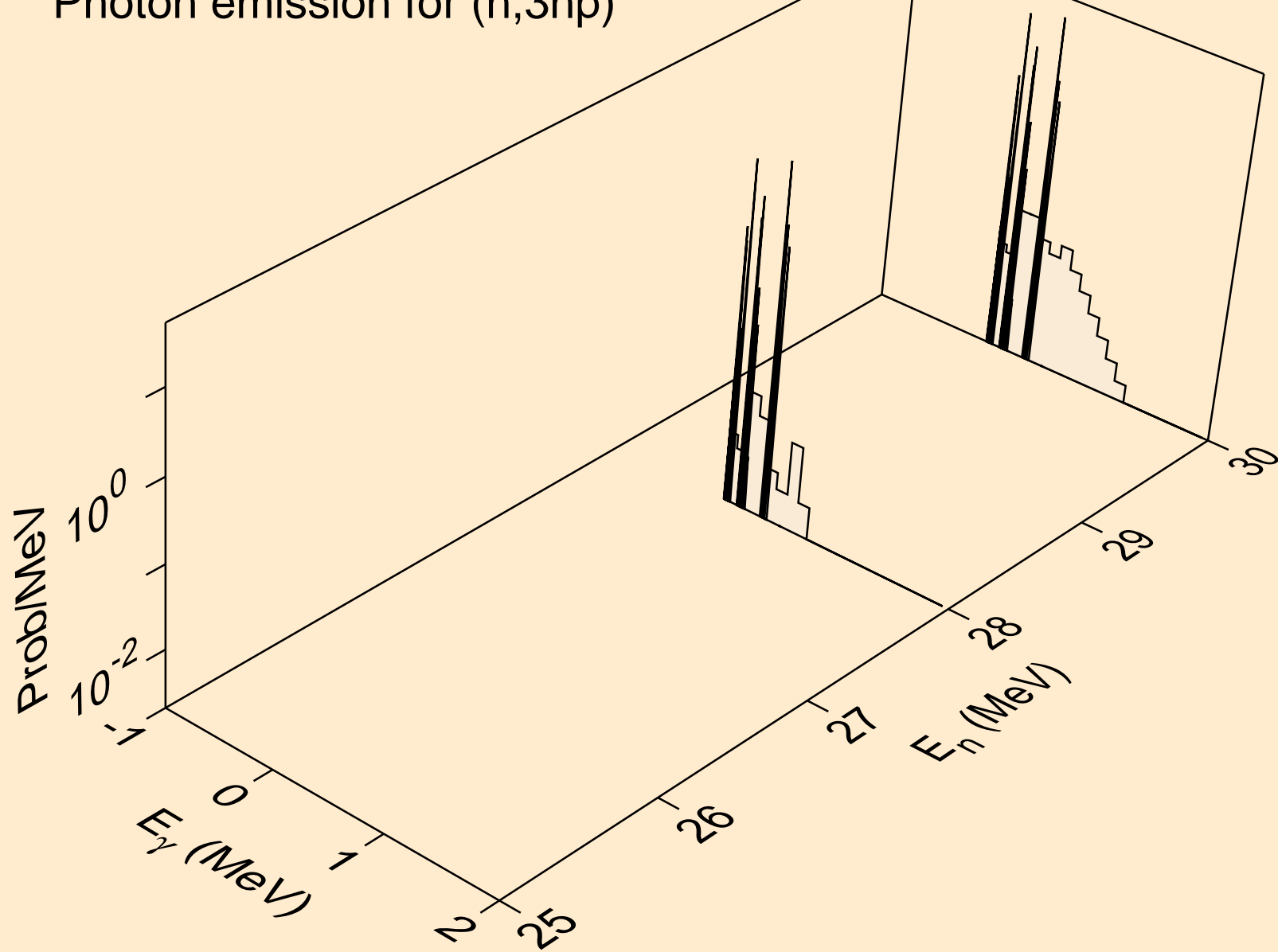
GD138 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)he3



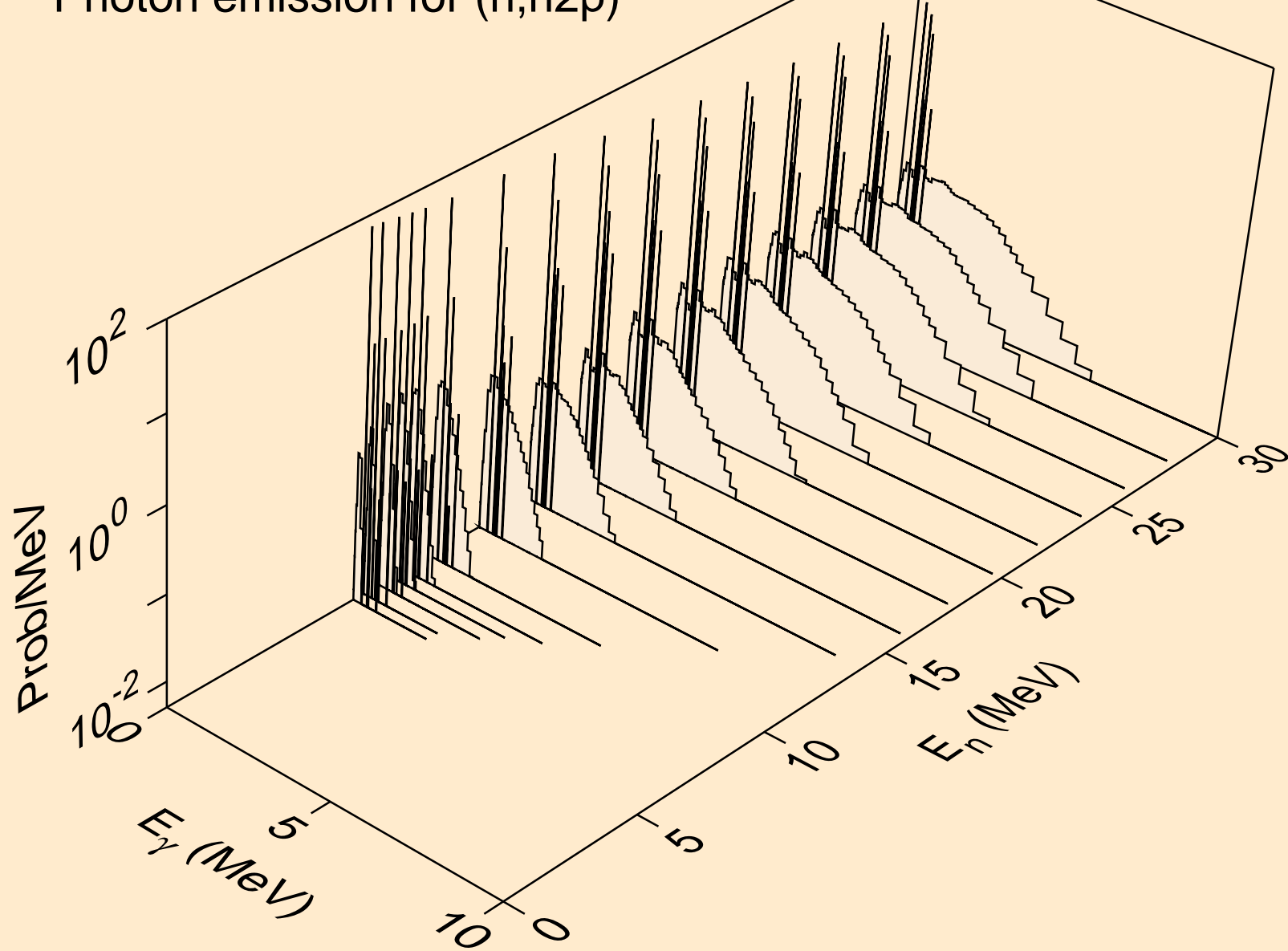
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Photon emission for (n,2np)



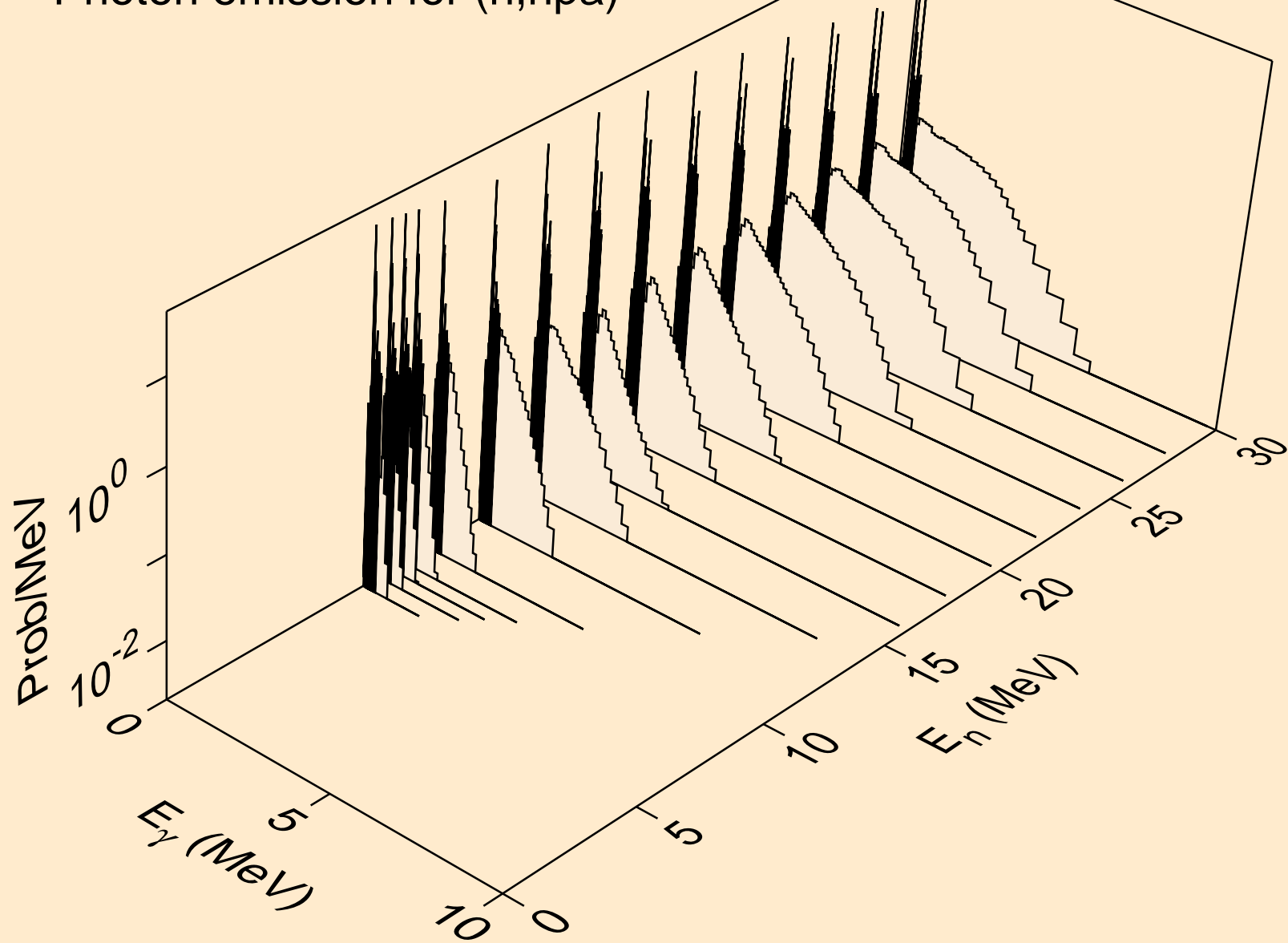
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Photon emission for (n,3np)



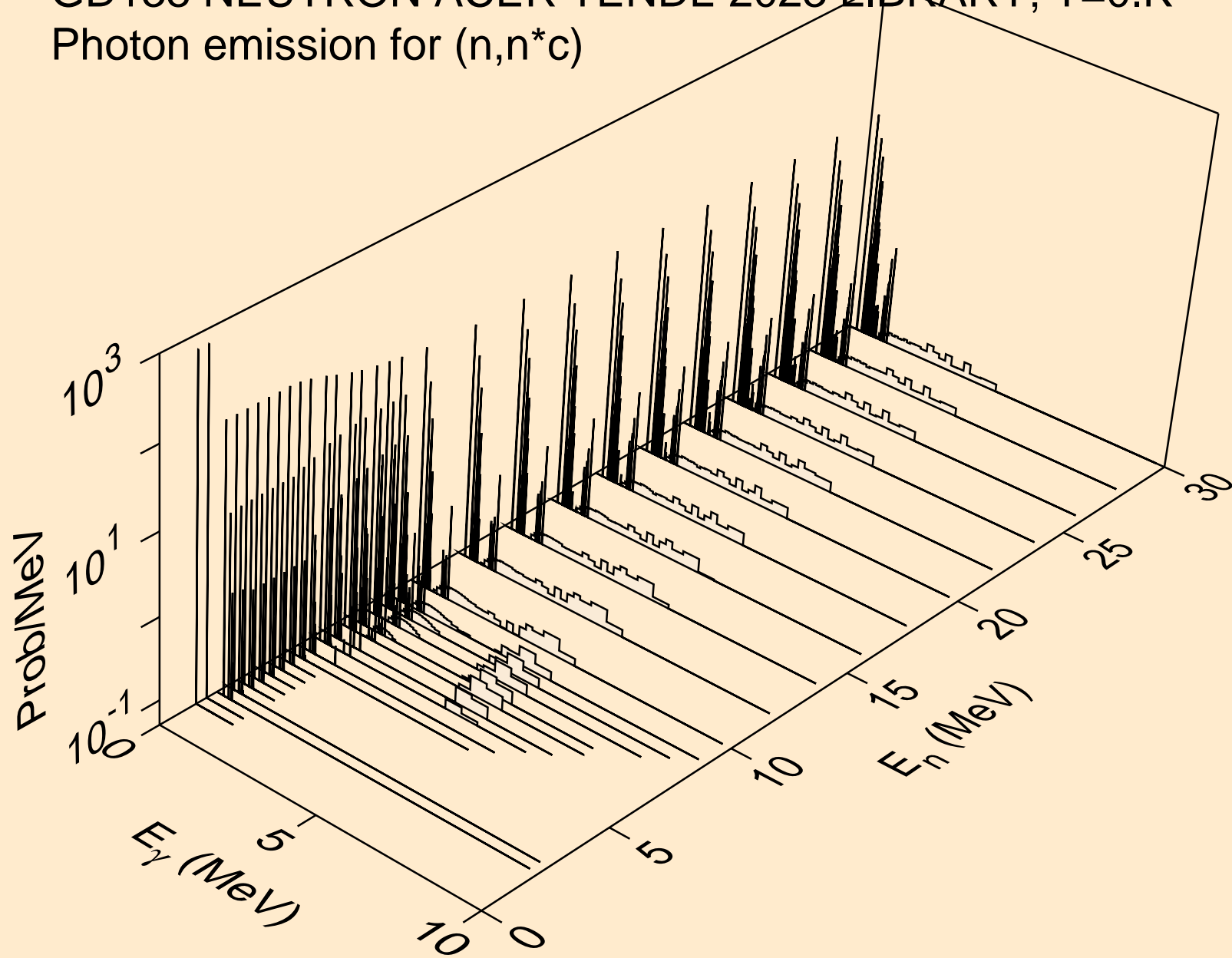
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Photon emission for (n,n2p)



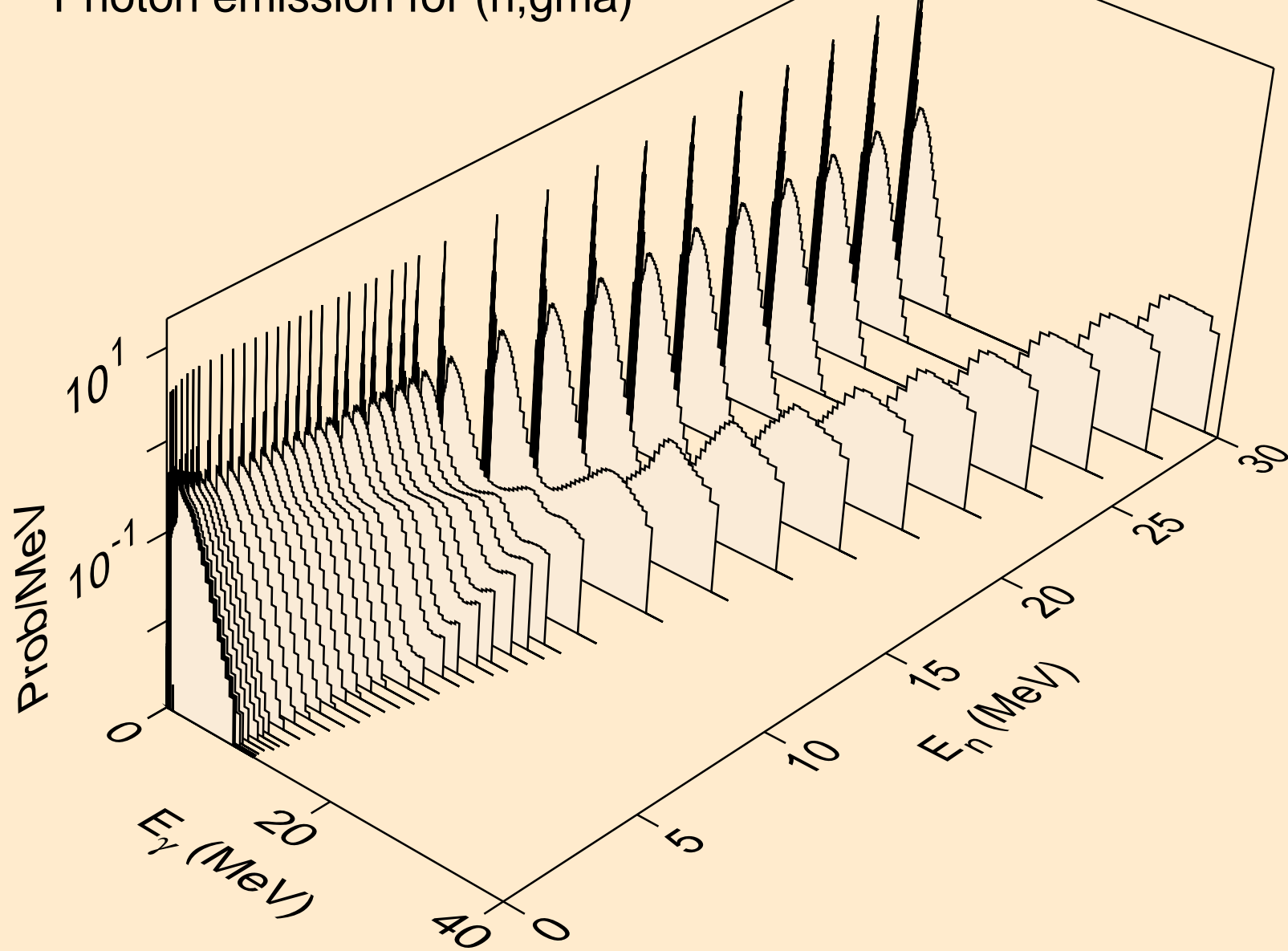
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Photon emission for (n,npa)



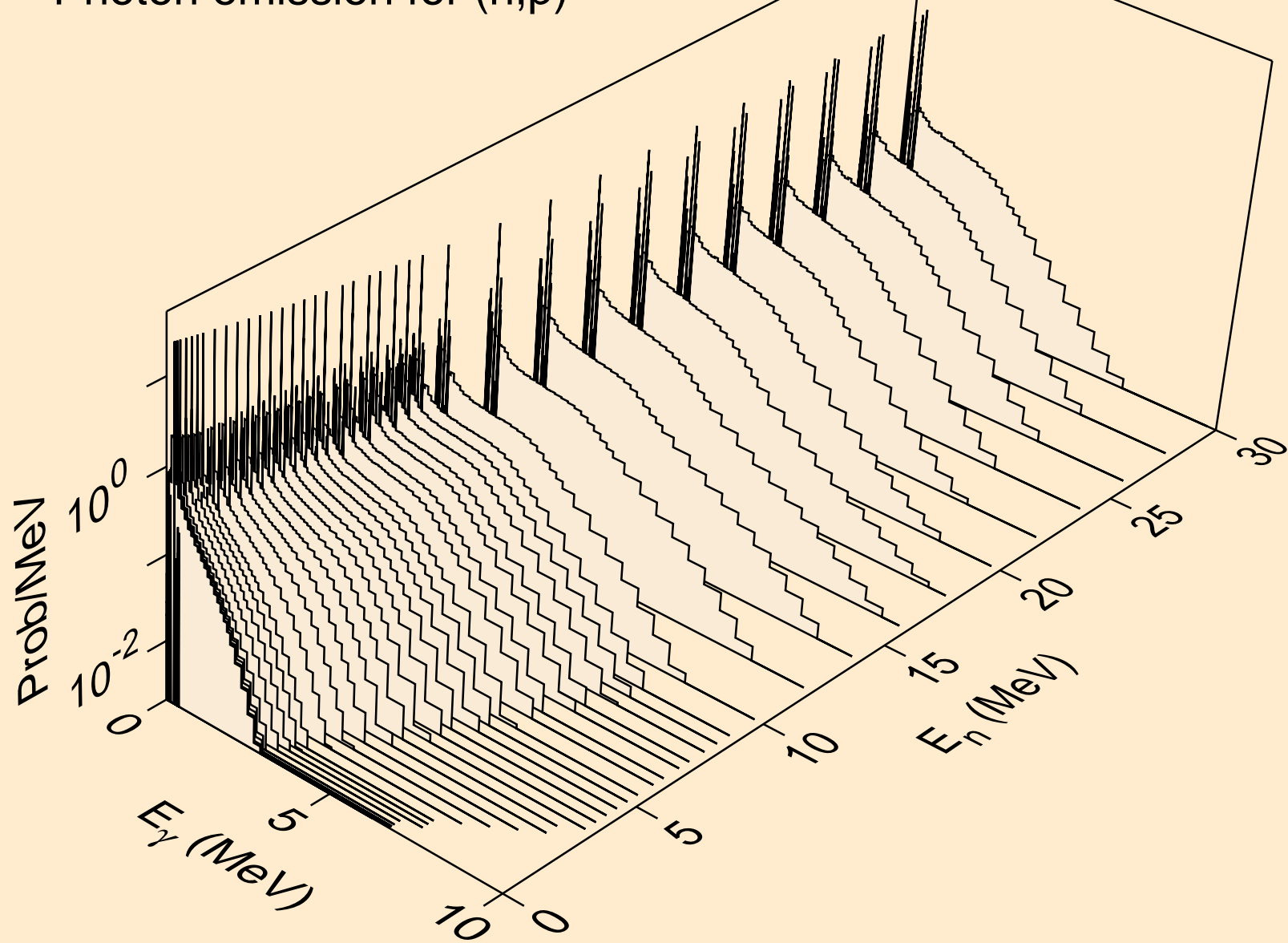
GD138 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*c)



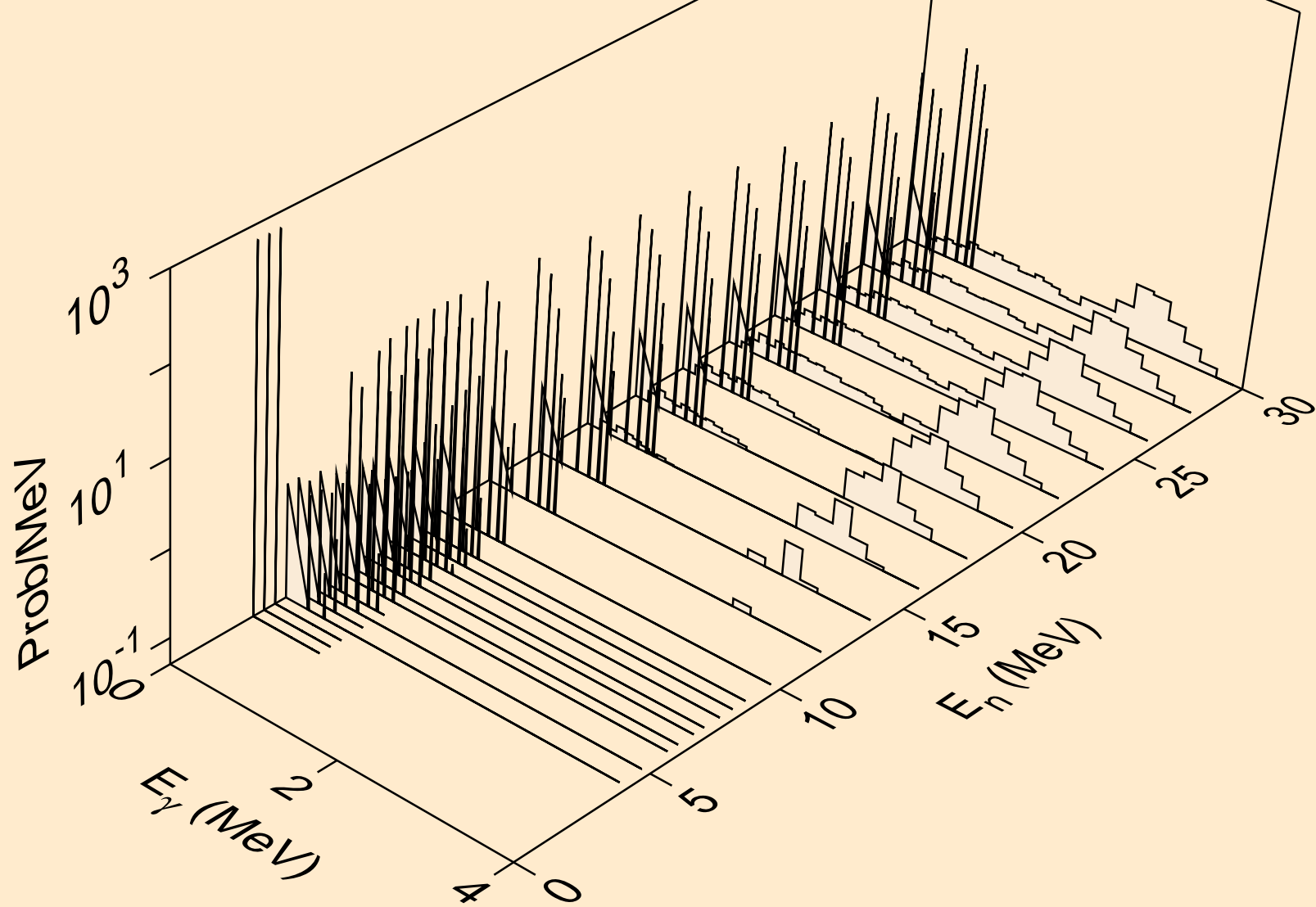
GD138 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,gma)



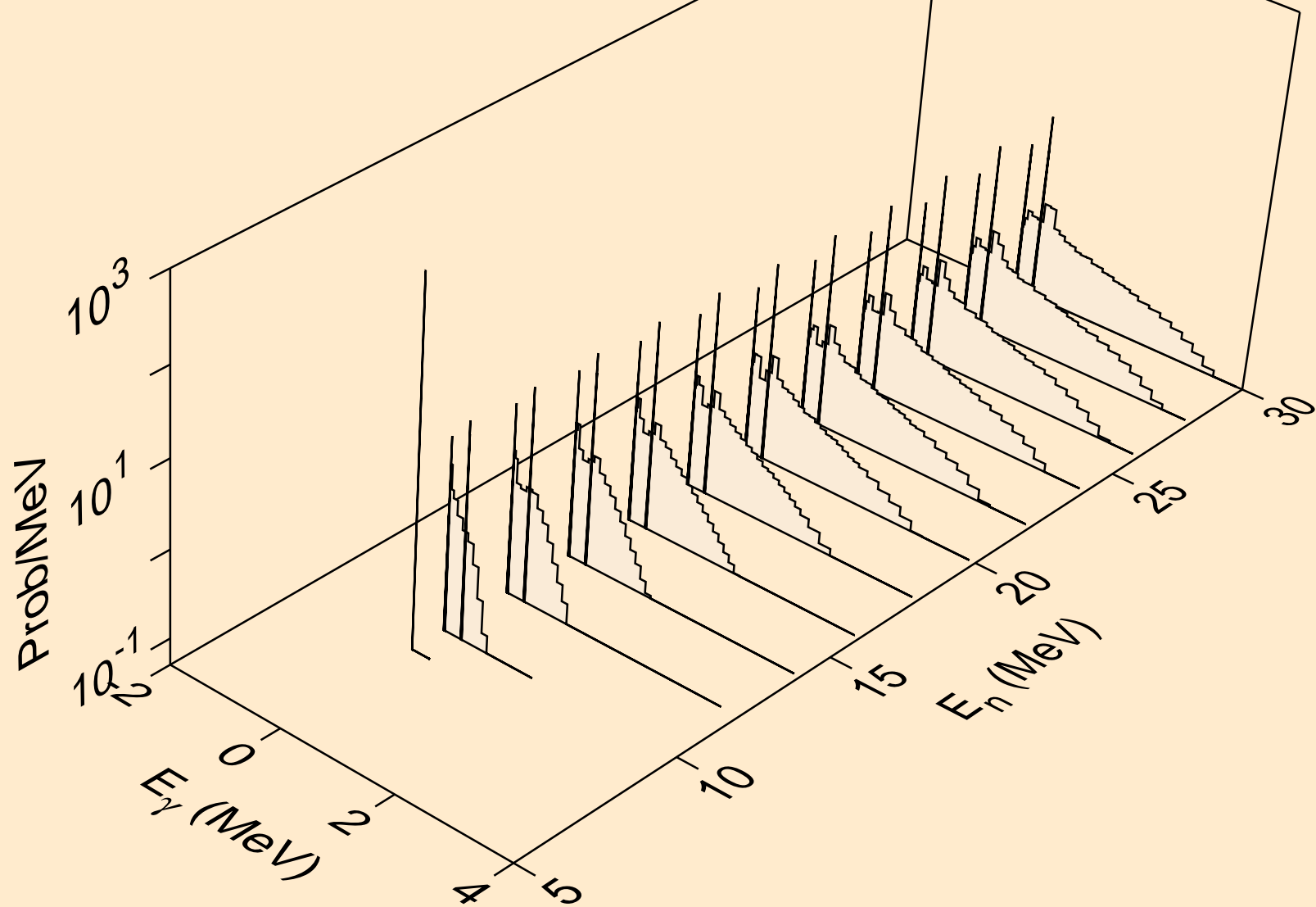
GD138 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,p)



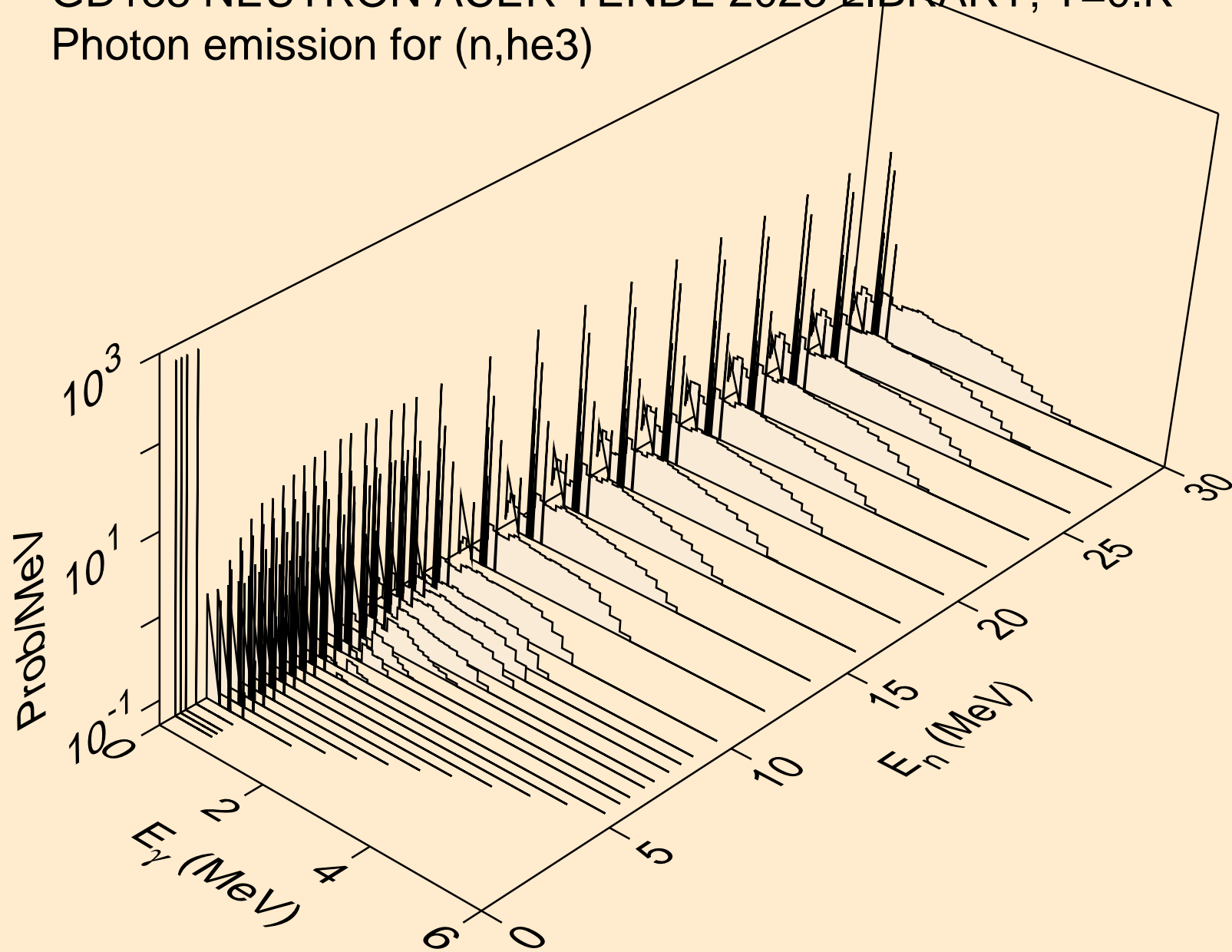
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Photon emission for (n,d)



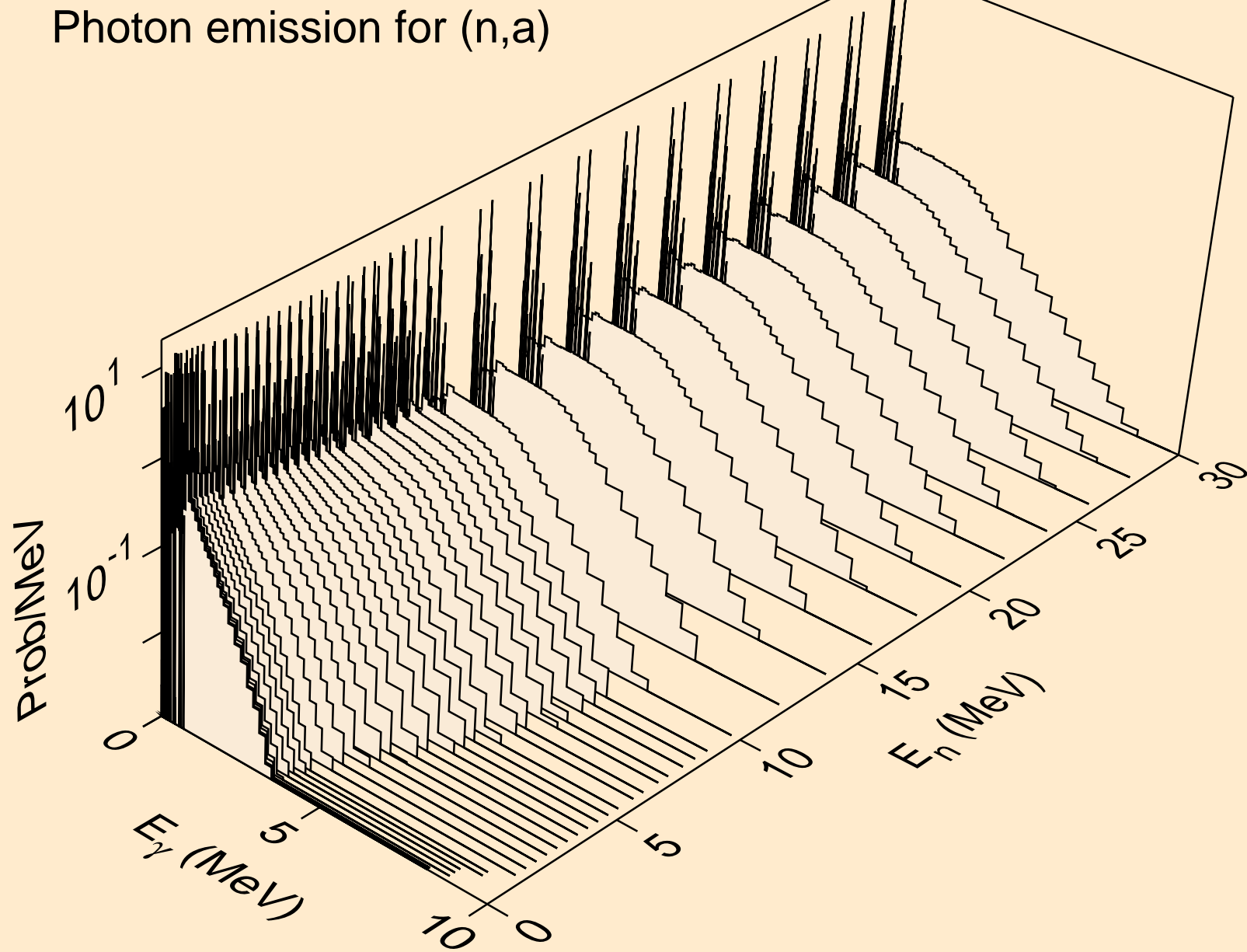
GD138 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,t)



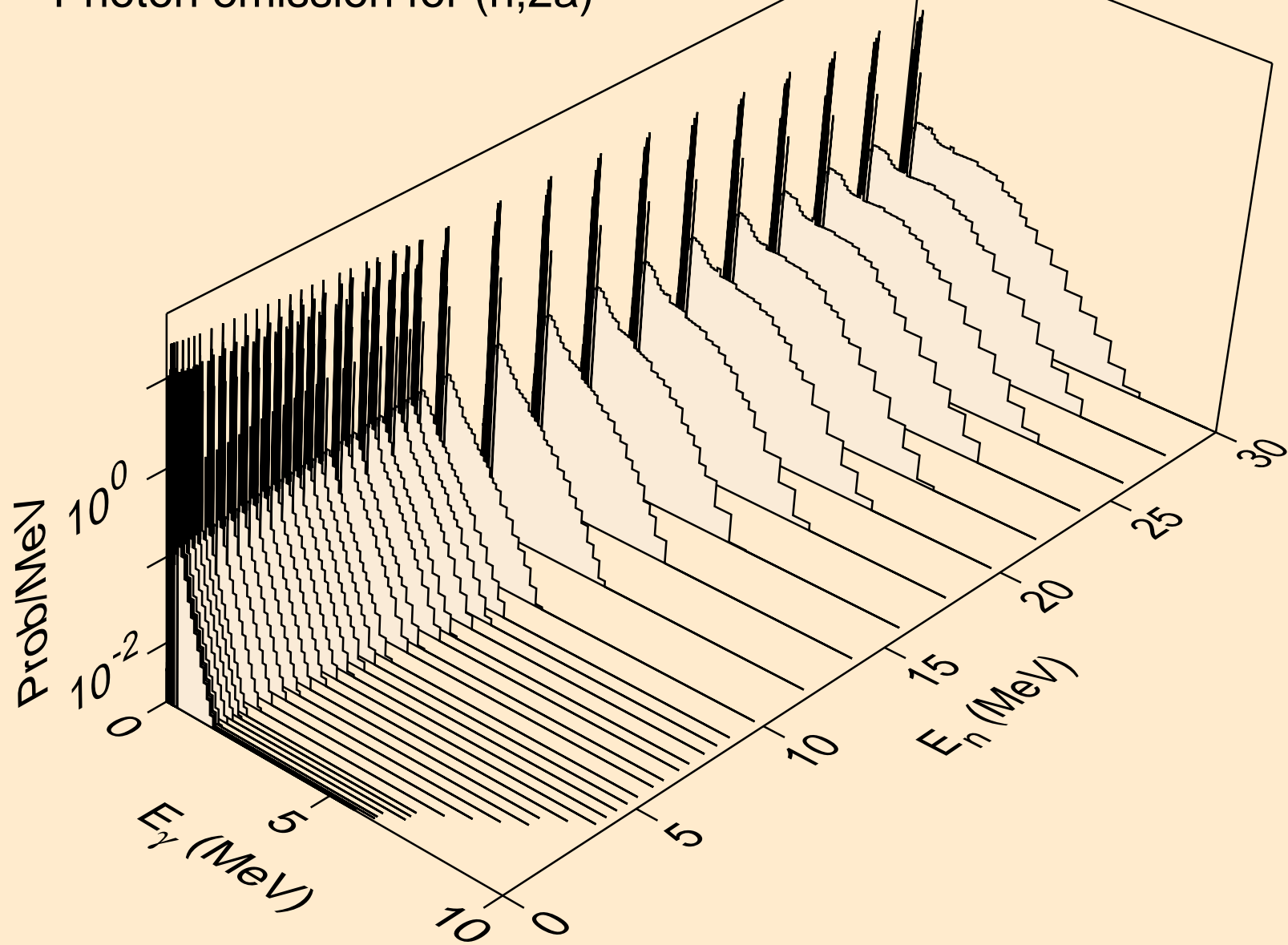
GD138 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,he3)



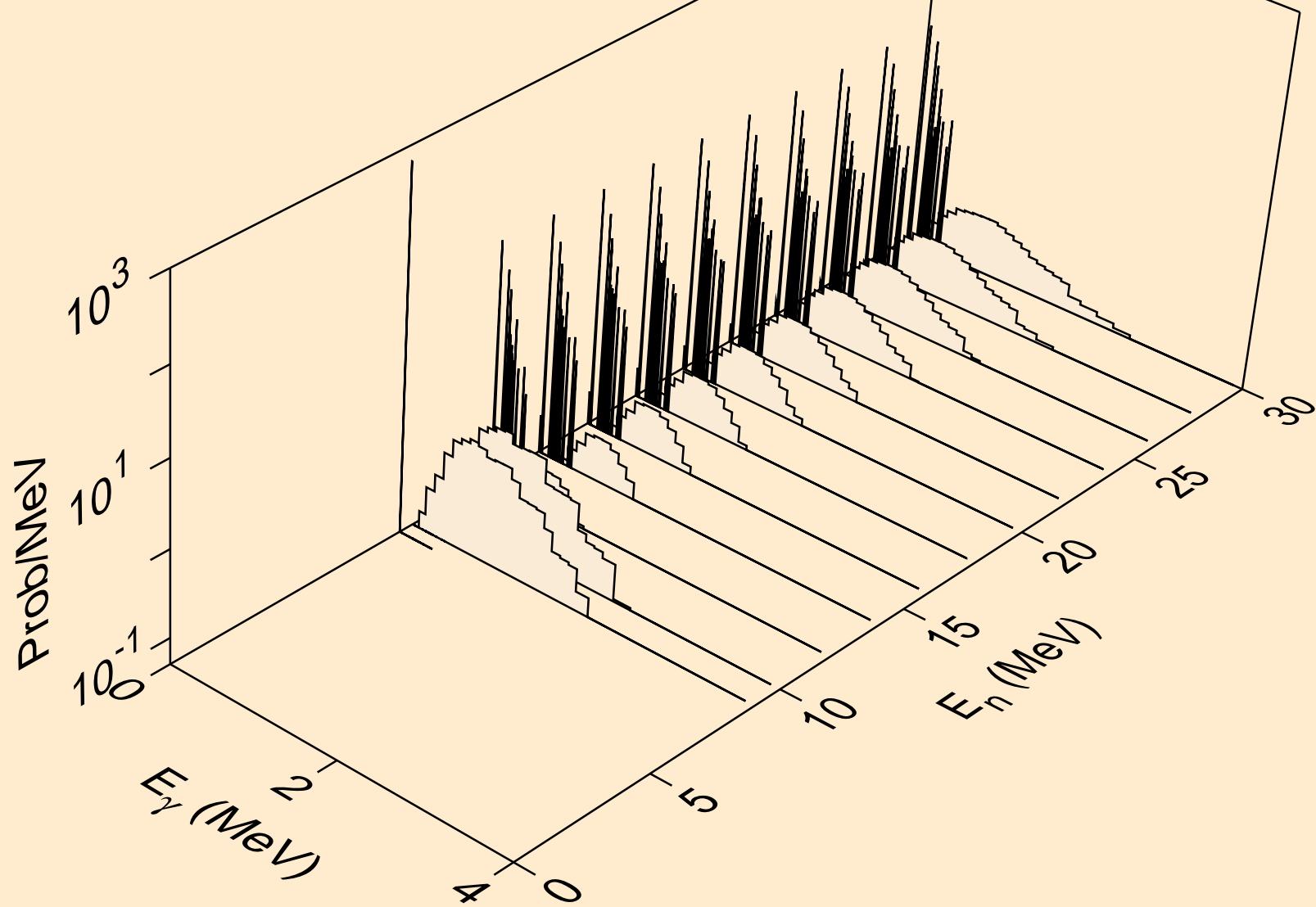
GD138 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,a)



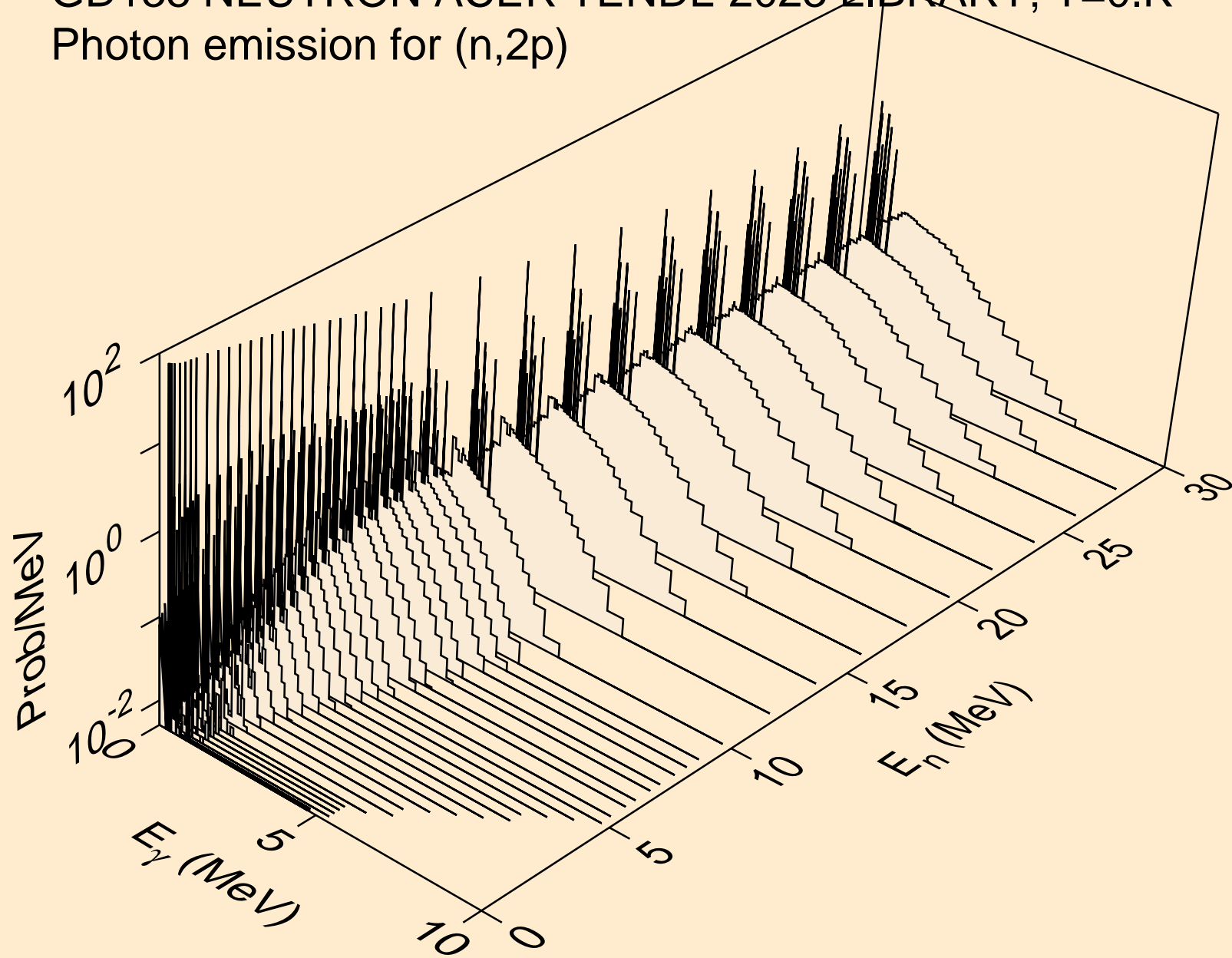
GD138 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2a)



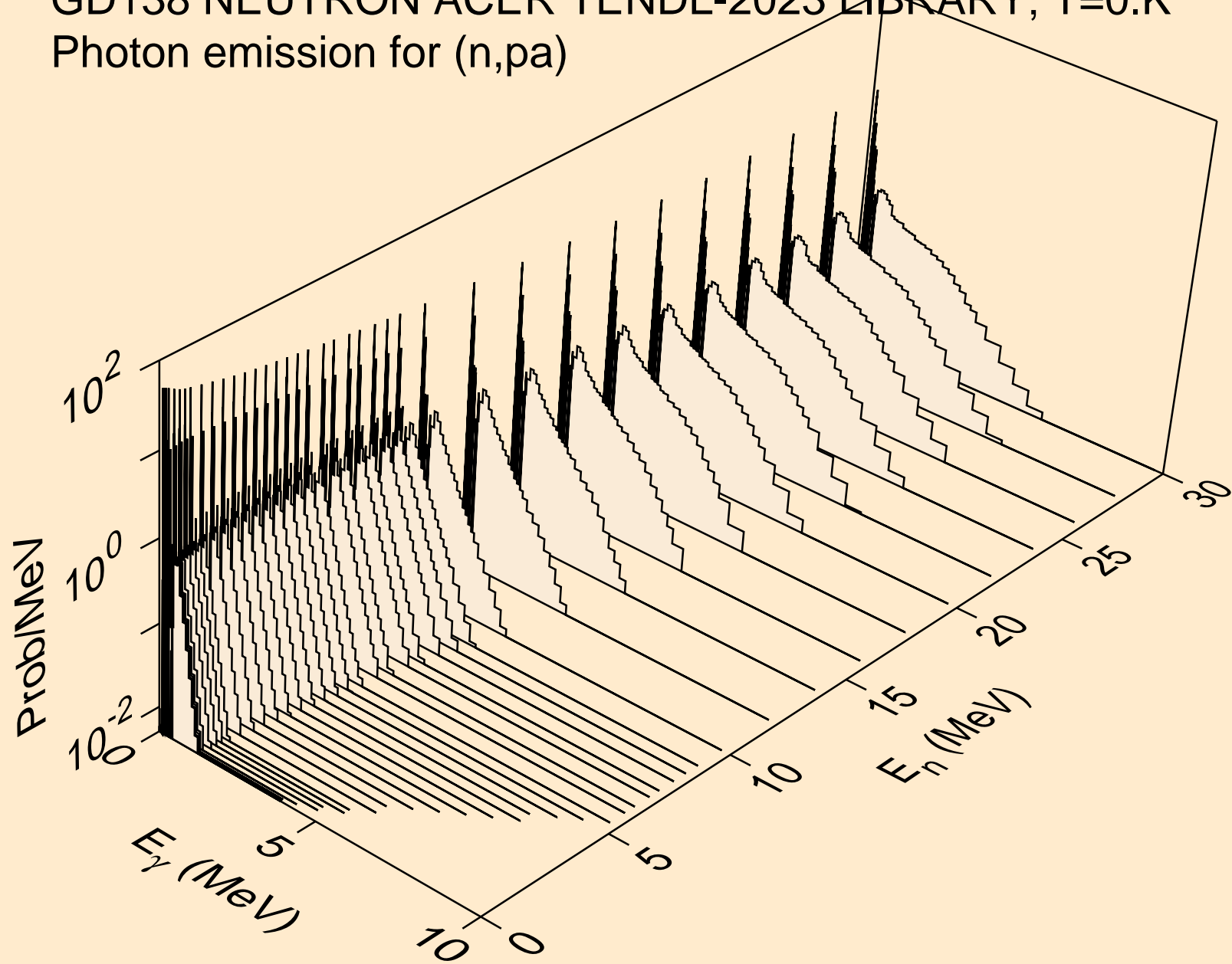
GD138 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,3a)



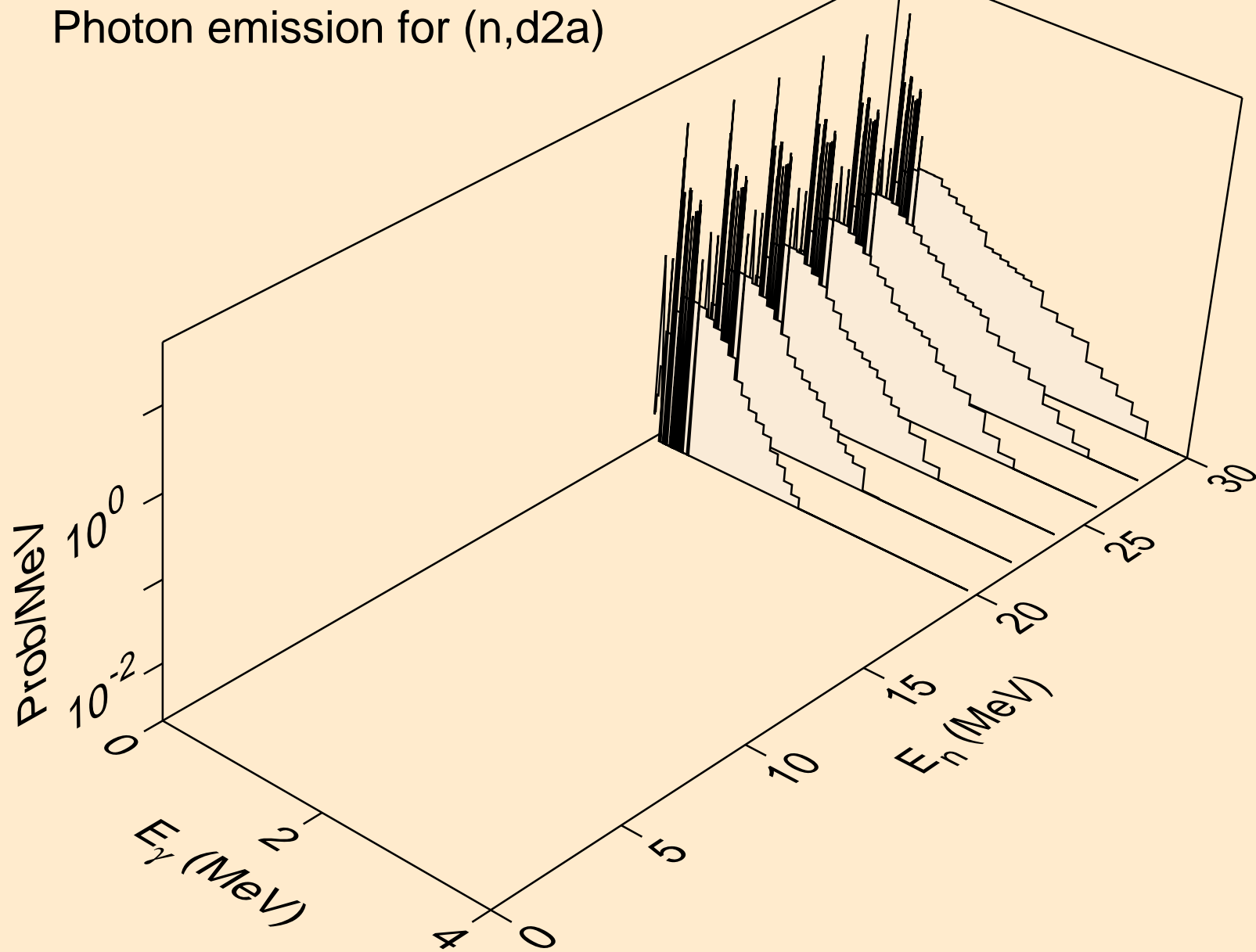
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Photon emission for (n,2p)



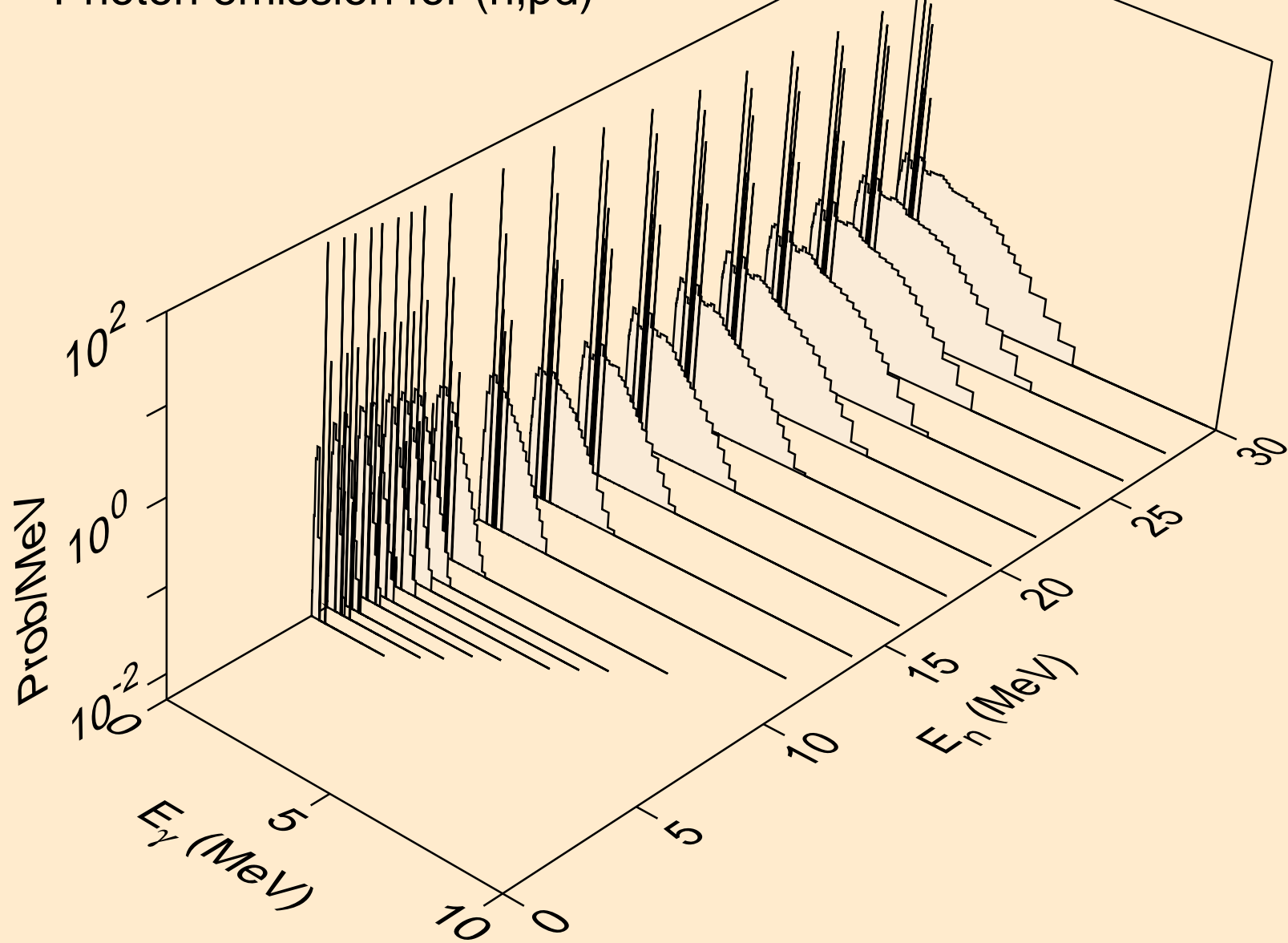
GD138 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,p)



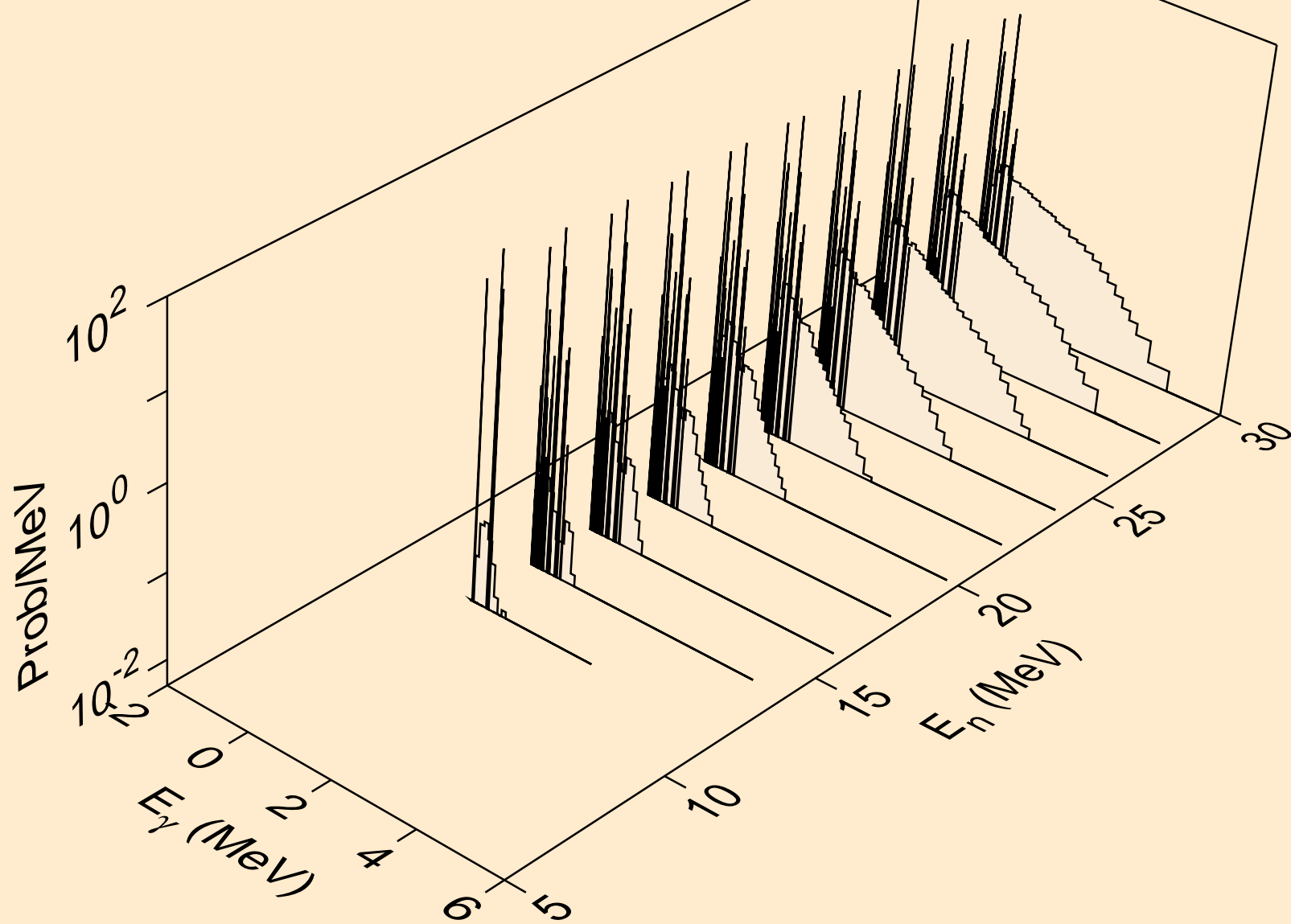
GD138 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,d2a)



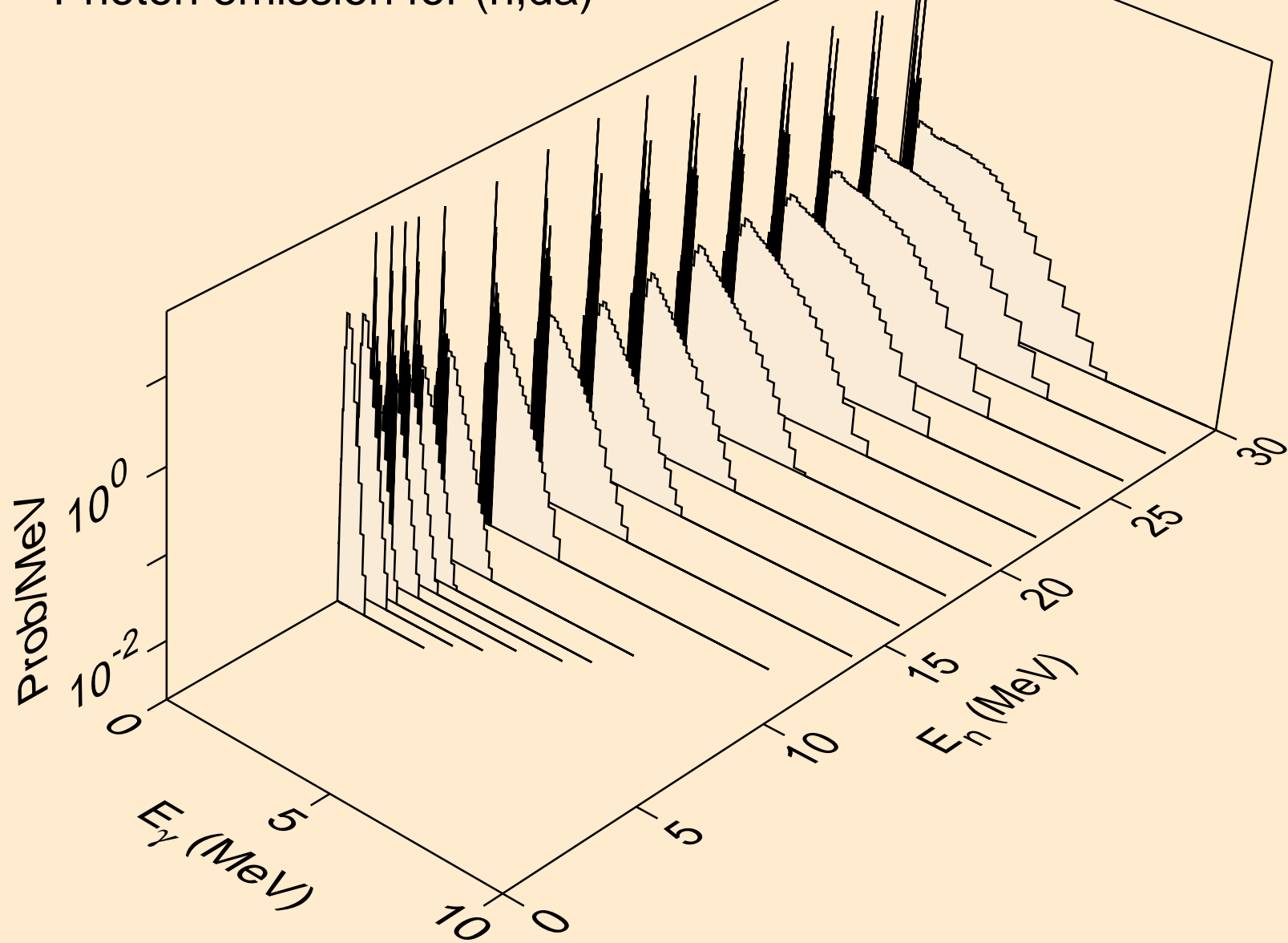
GD138 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,pd)



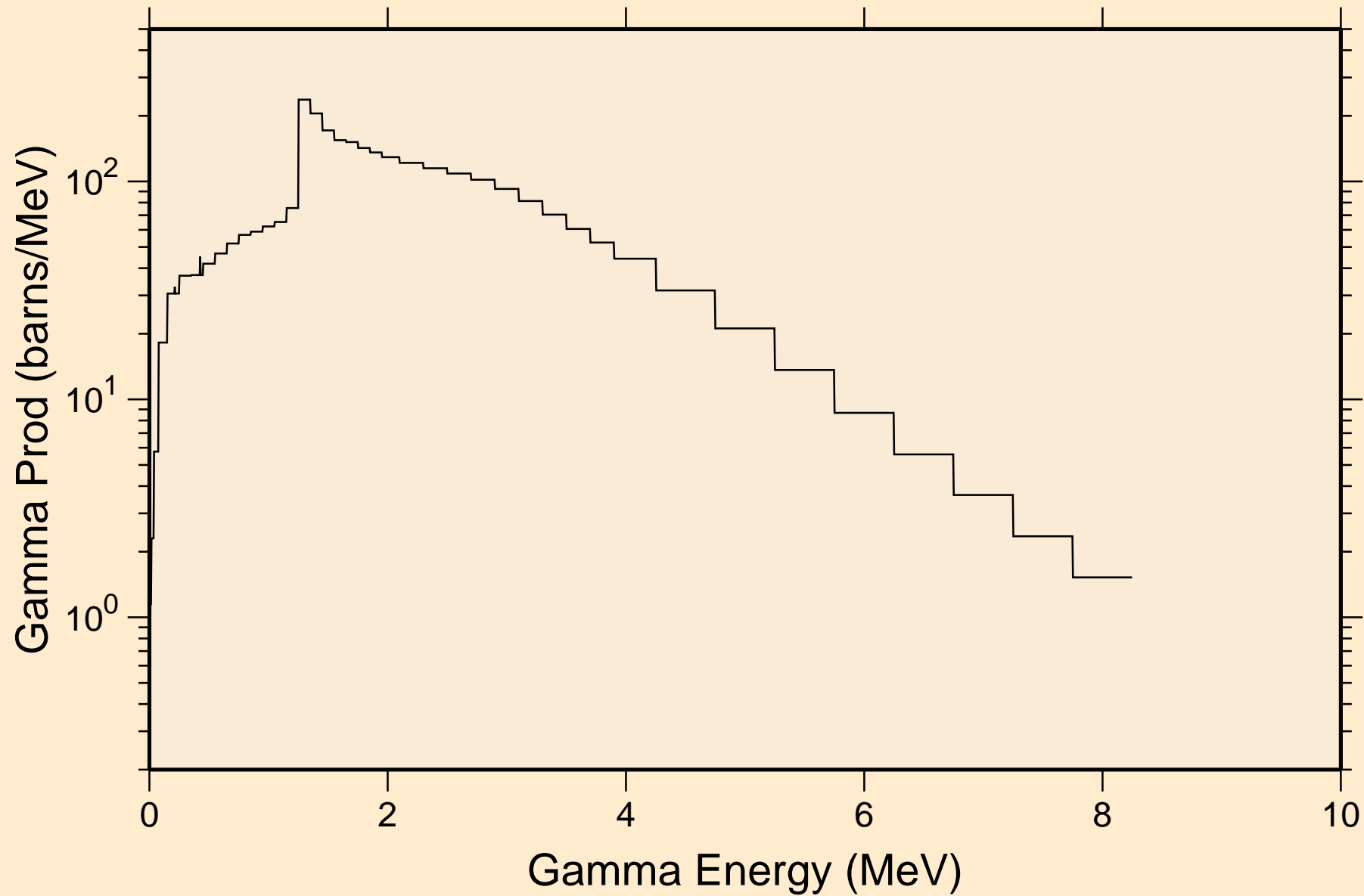
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Photon emission for (n,pt)



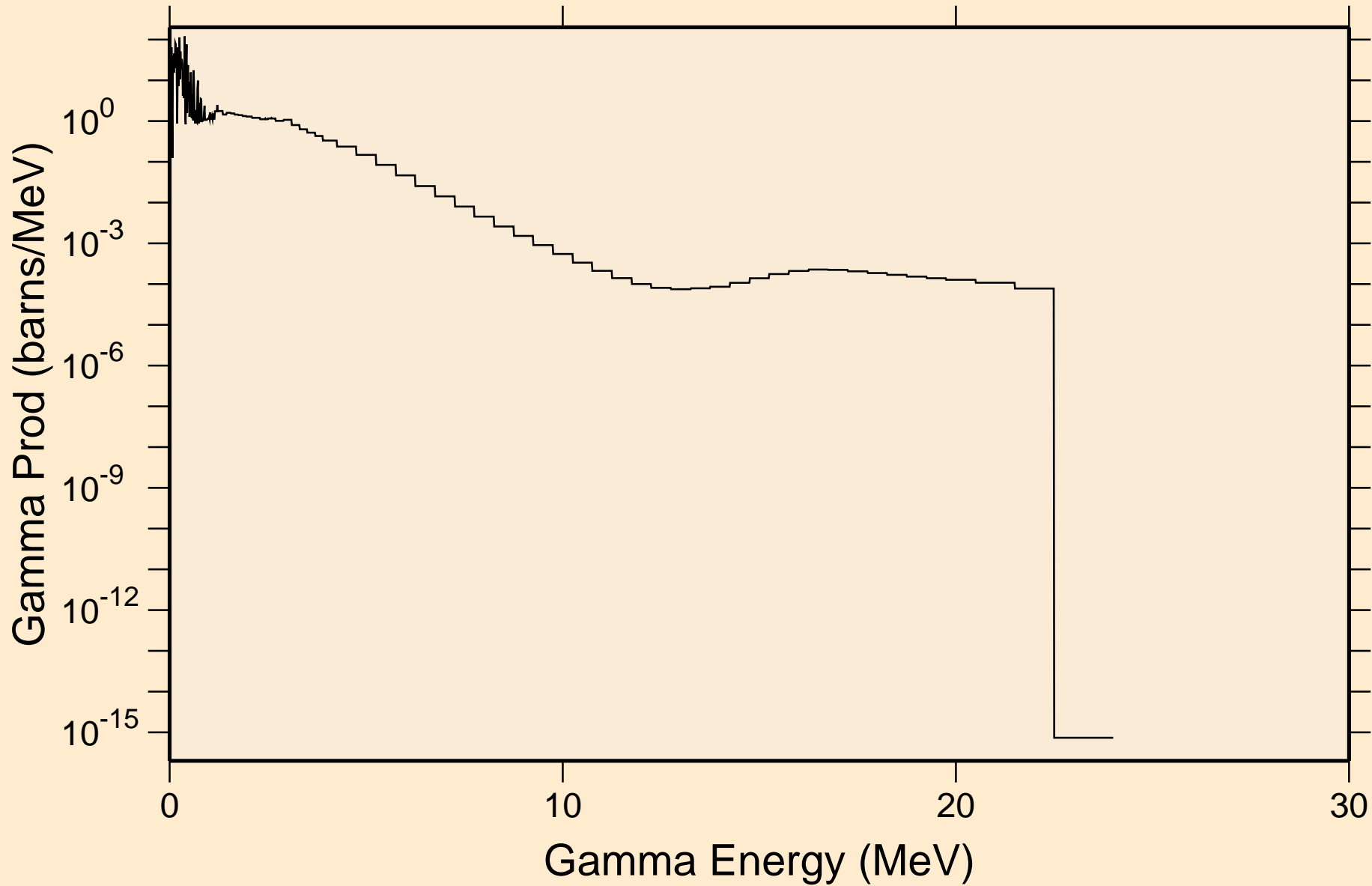
GD138 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,da)



GD138 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
thermal capture photon spectrum

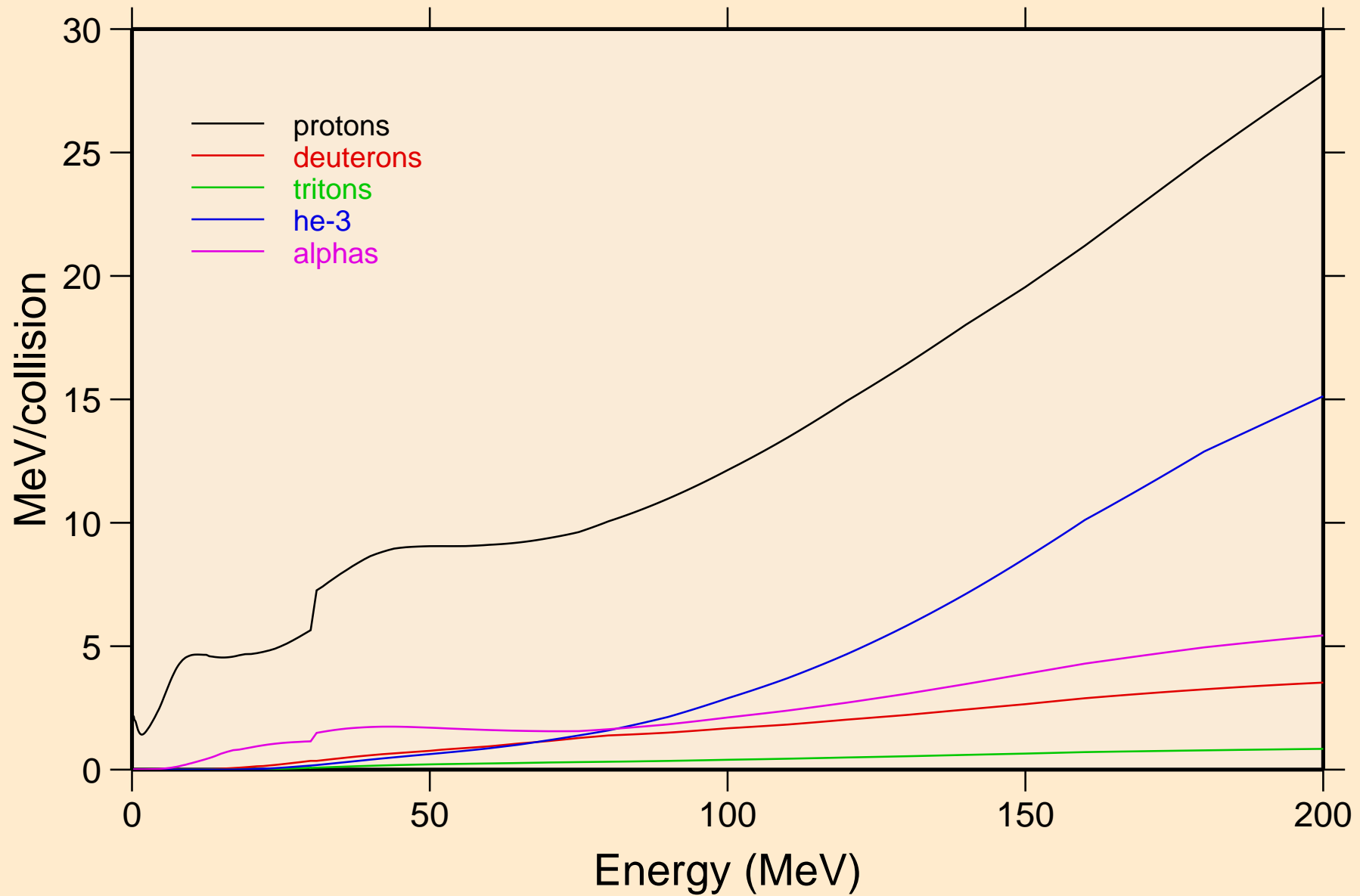


GD138 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
14 MeV photon spectrum



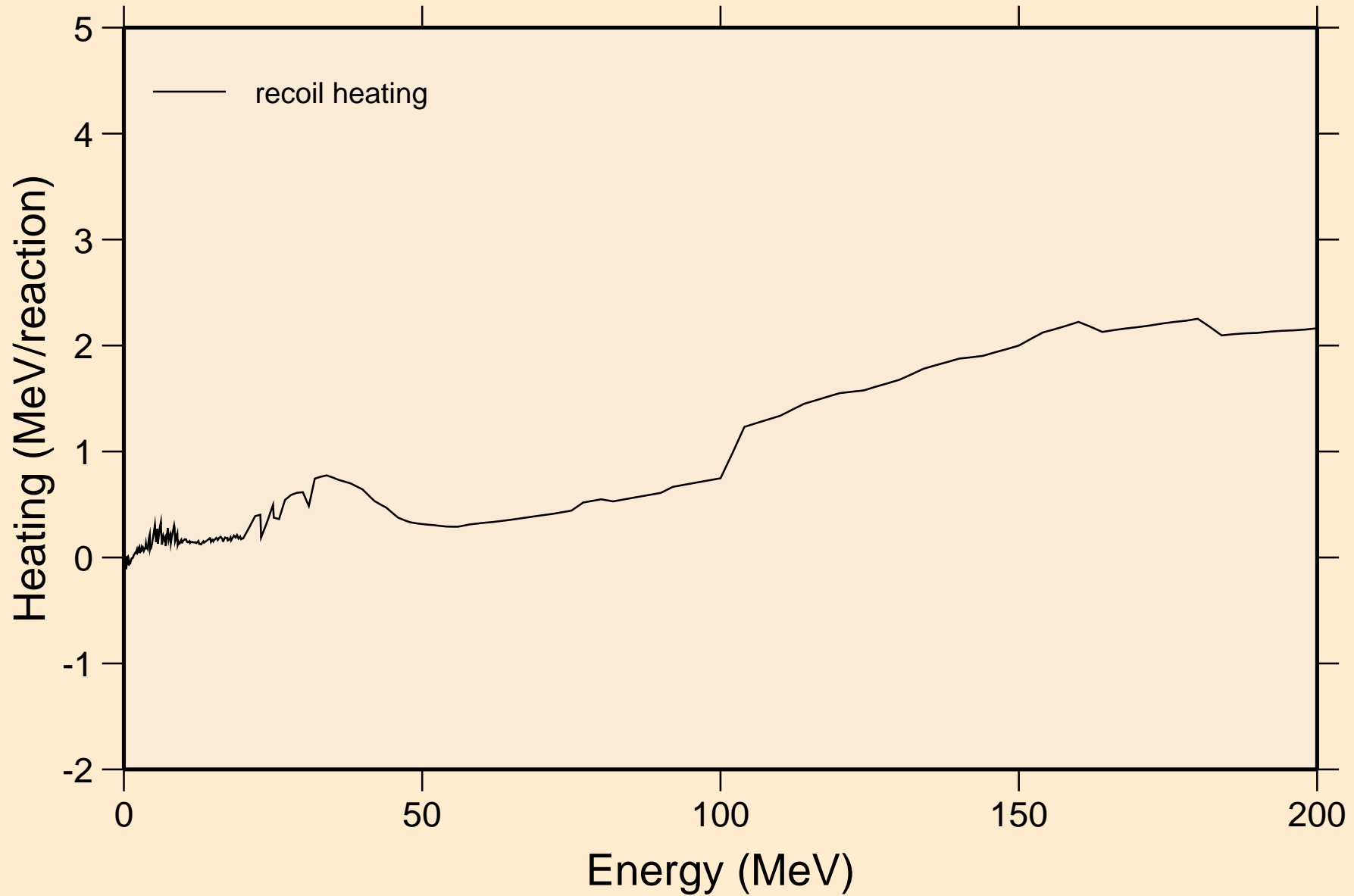
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## Particle heating contributions



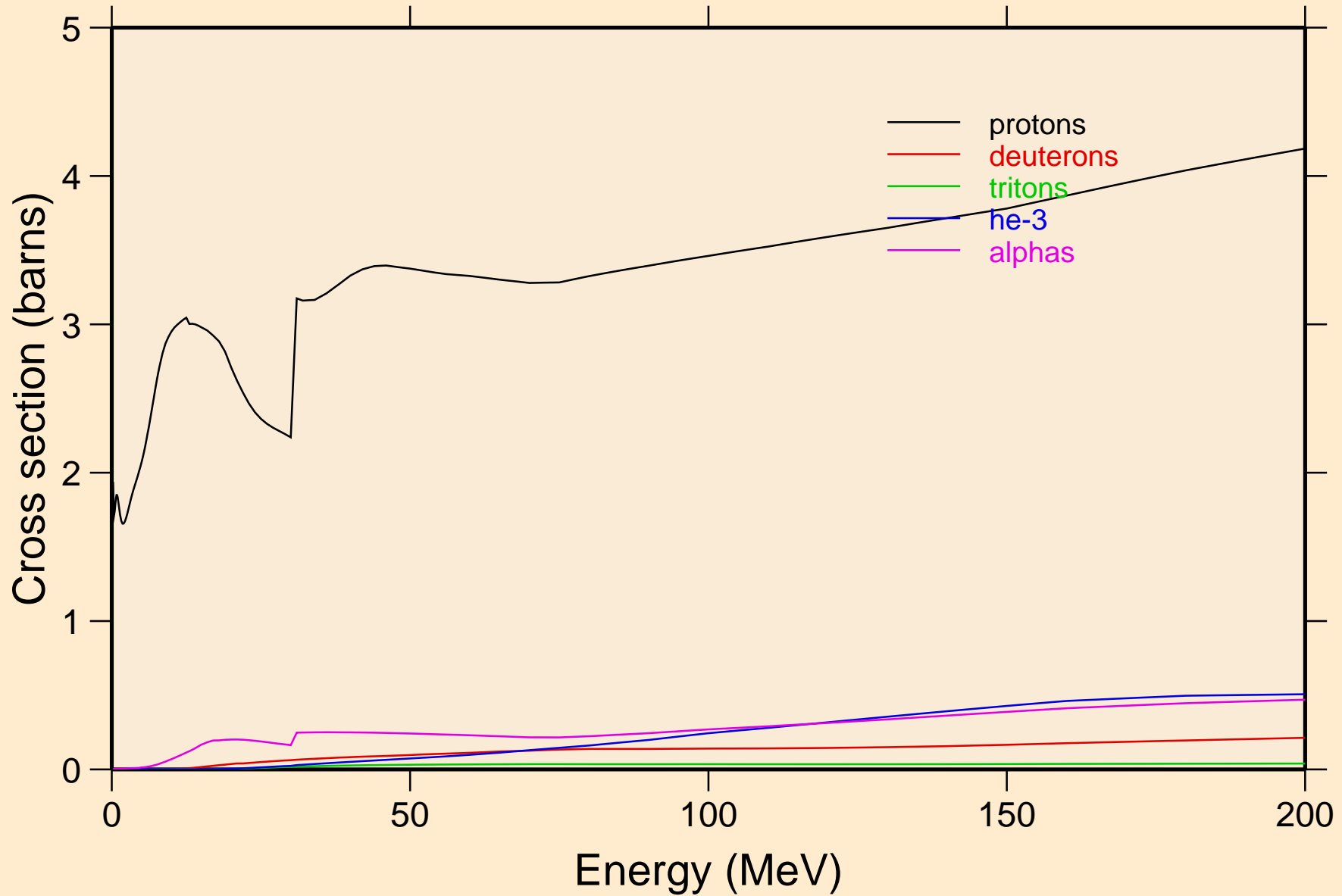
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## Recoil Heating

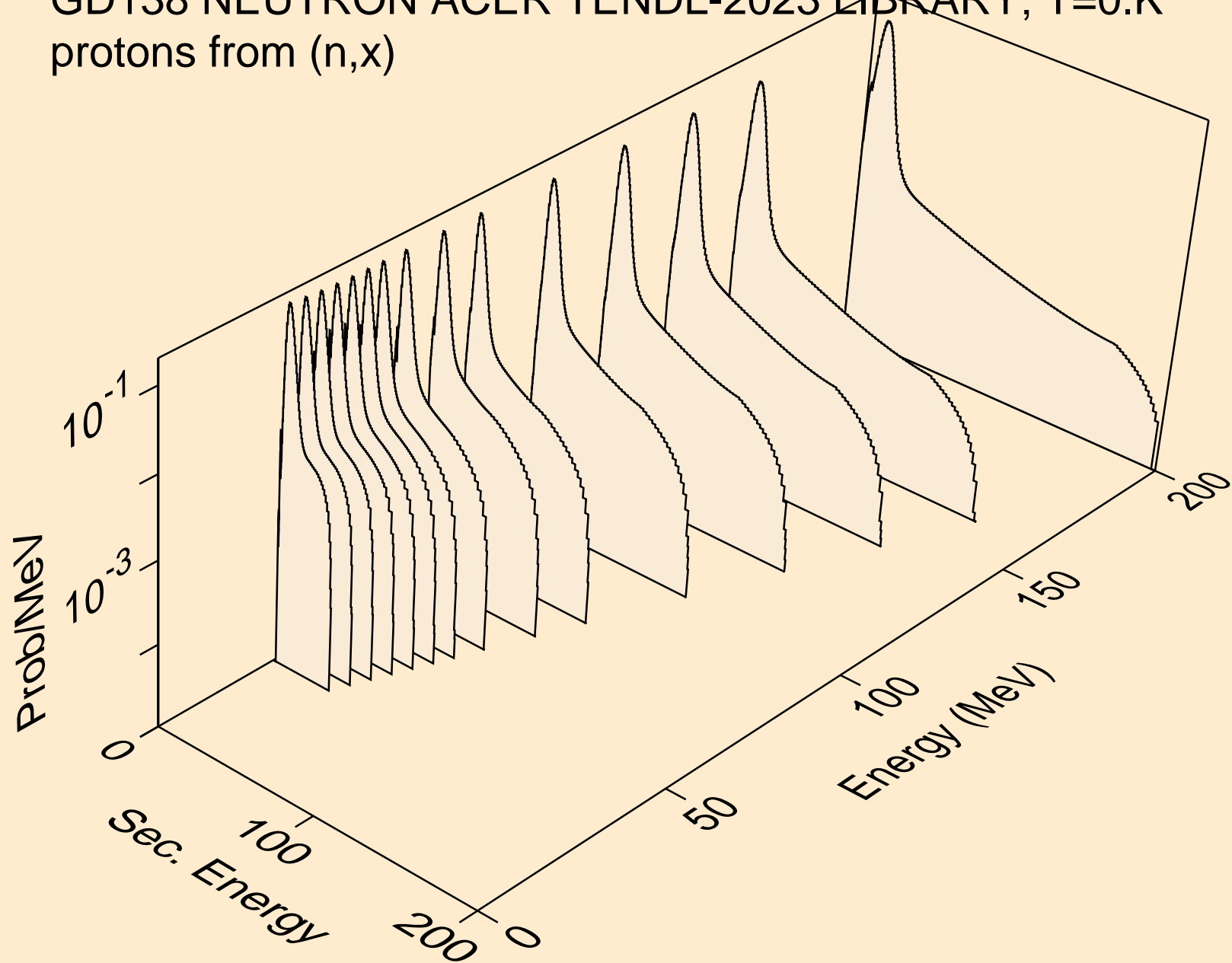


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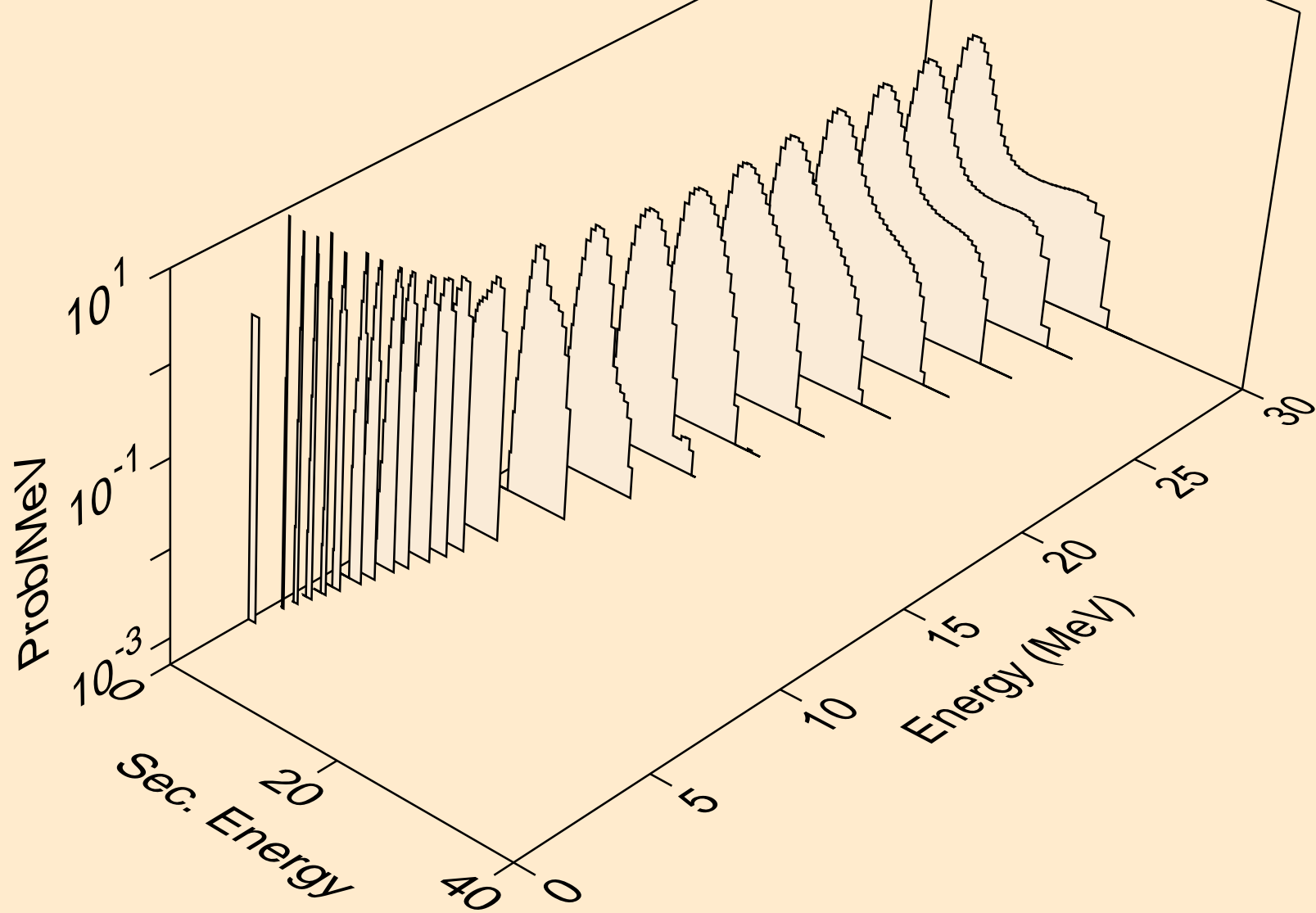
## Particle production cross sections



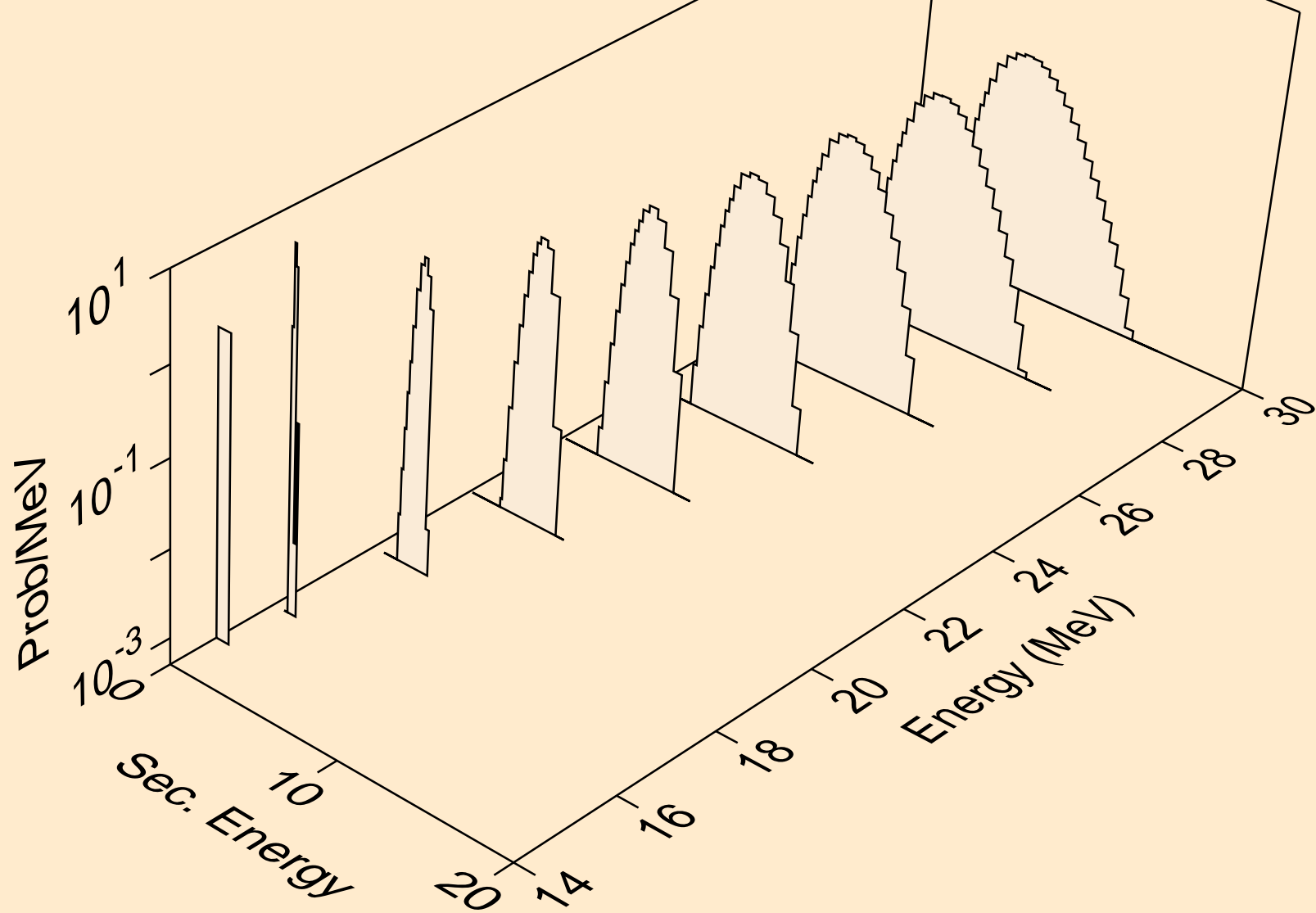
GD138 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
protons from (n,x)



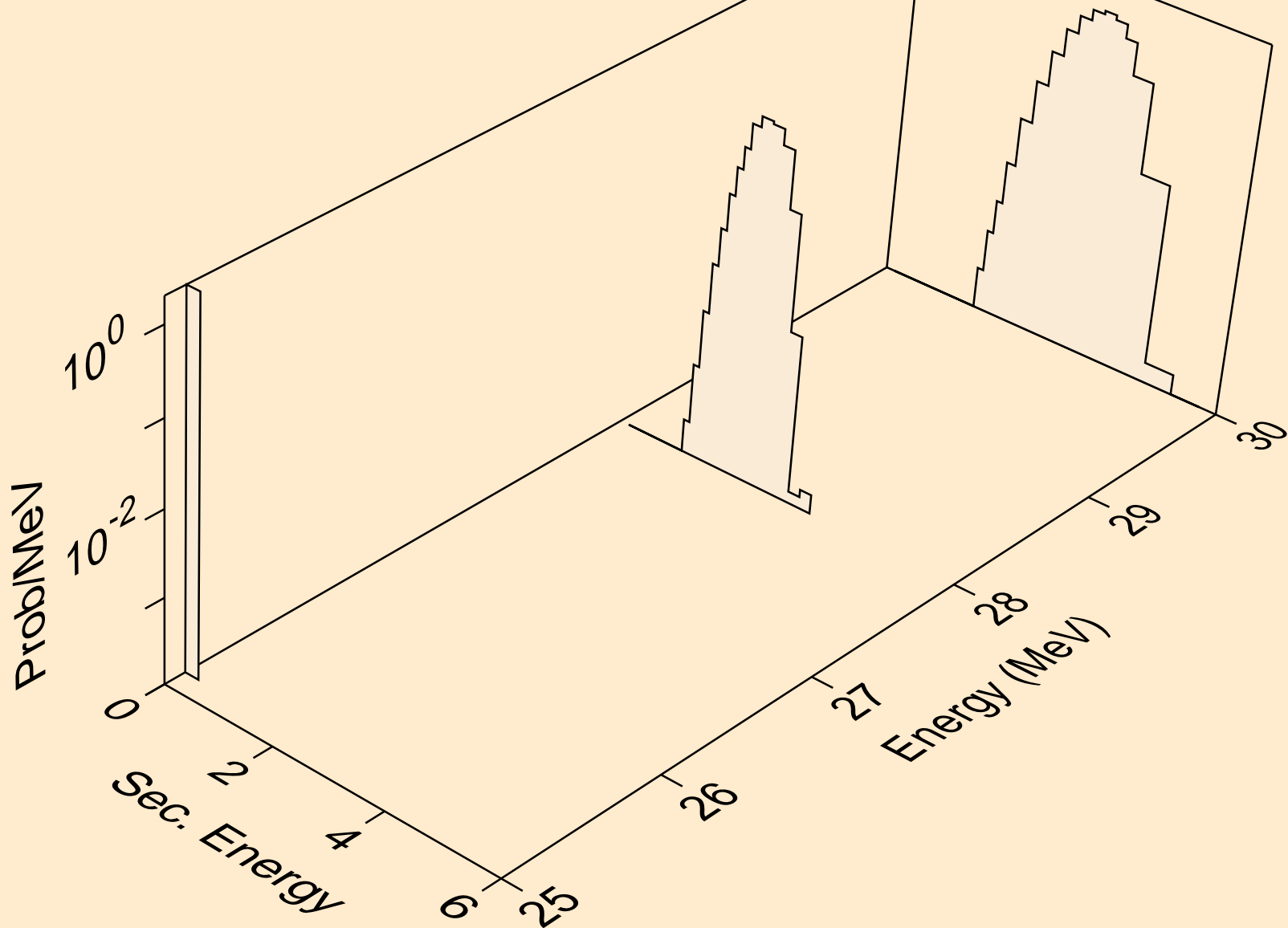
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protons from (n,n\*)p



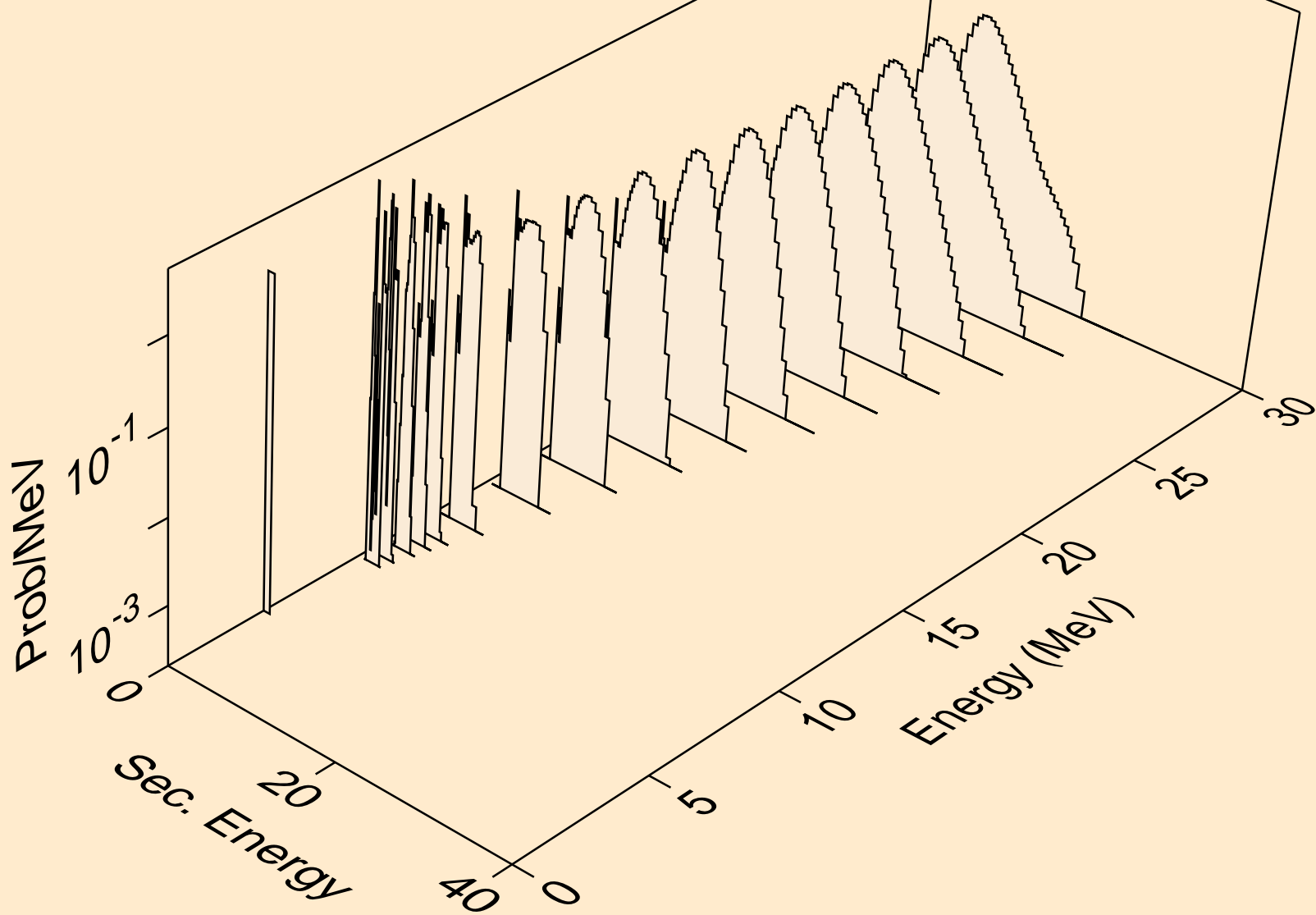
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protons from (n,2np)



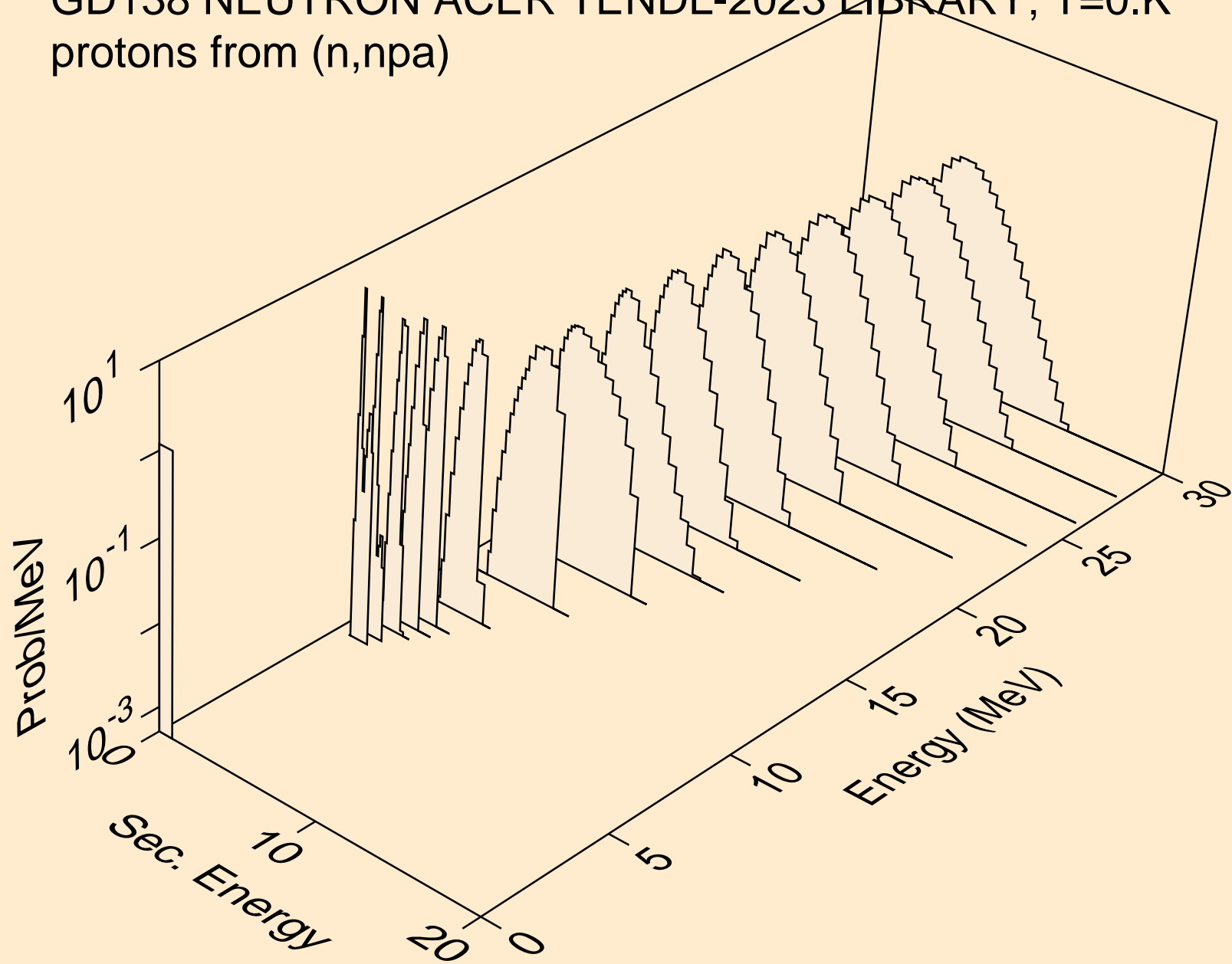
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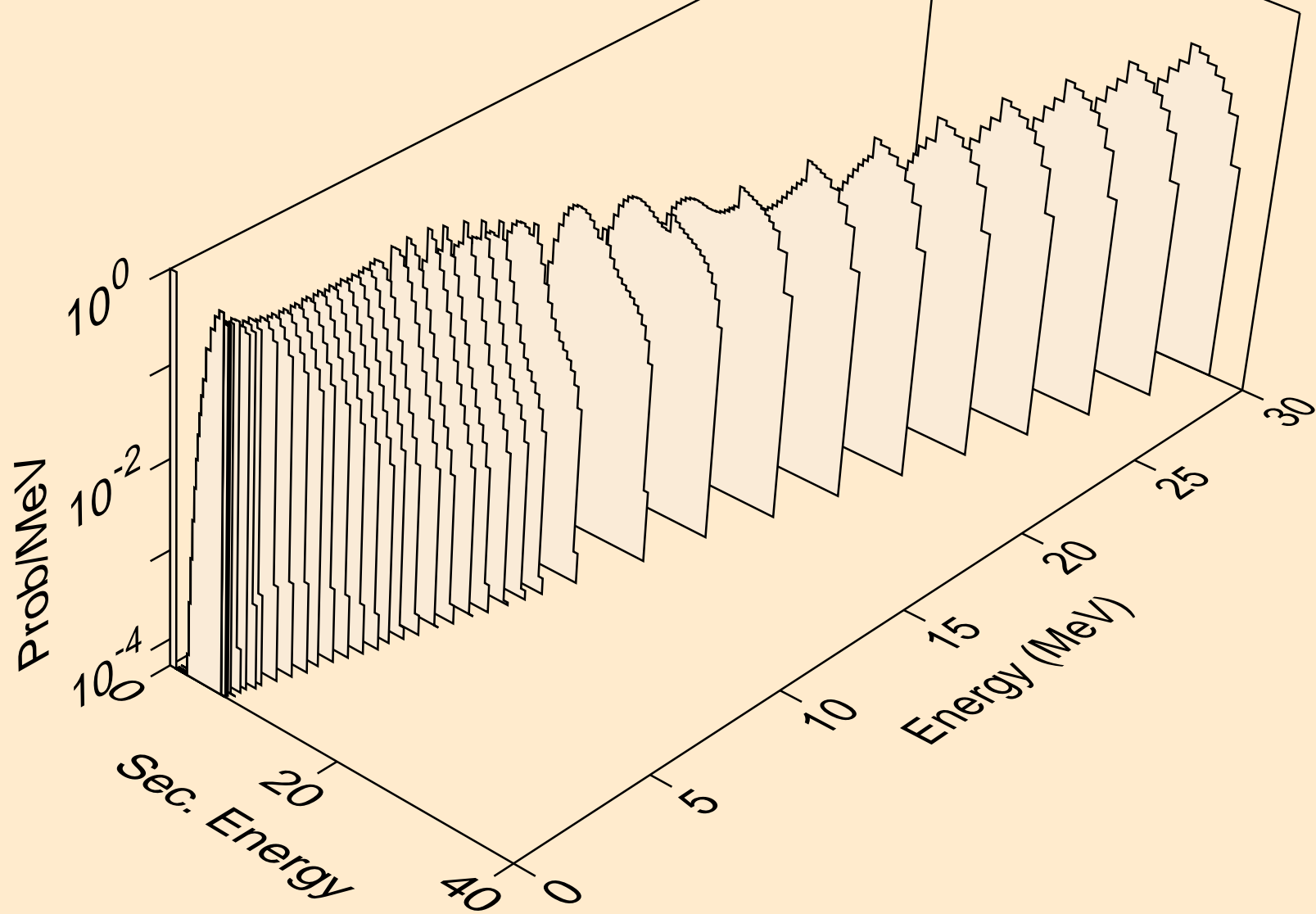
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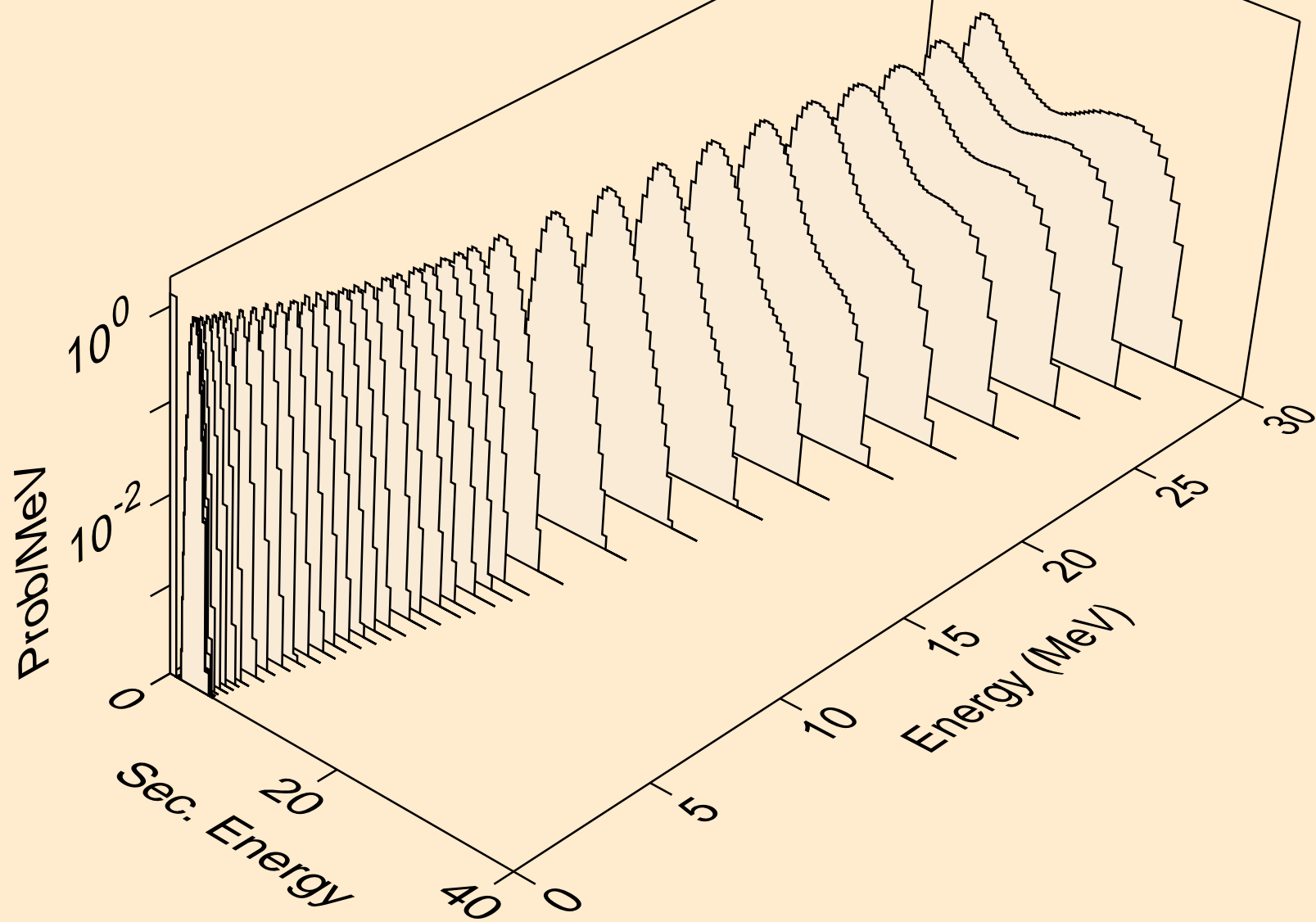
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protons from (n,npa)



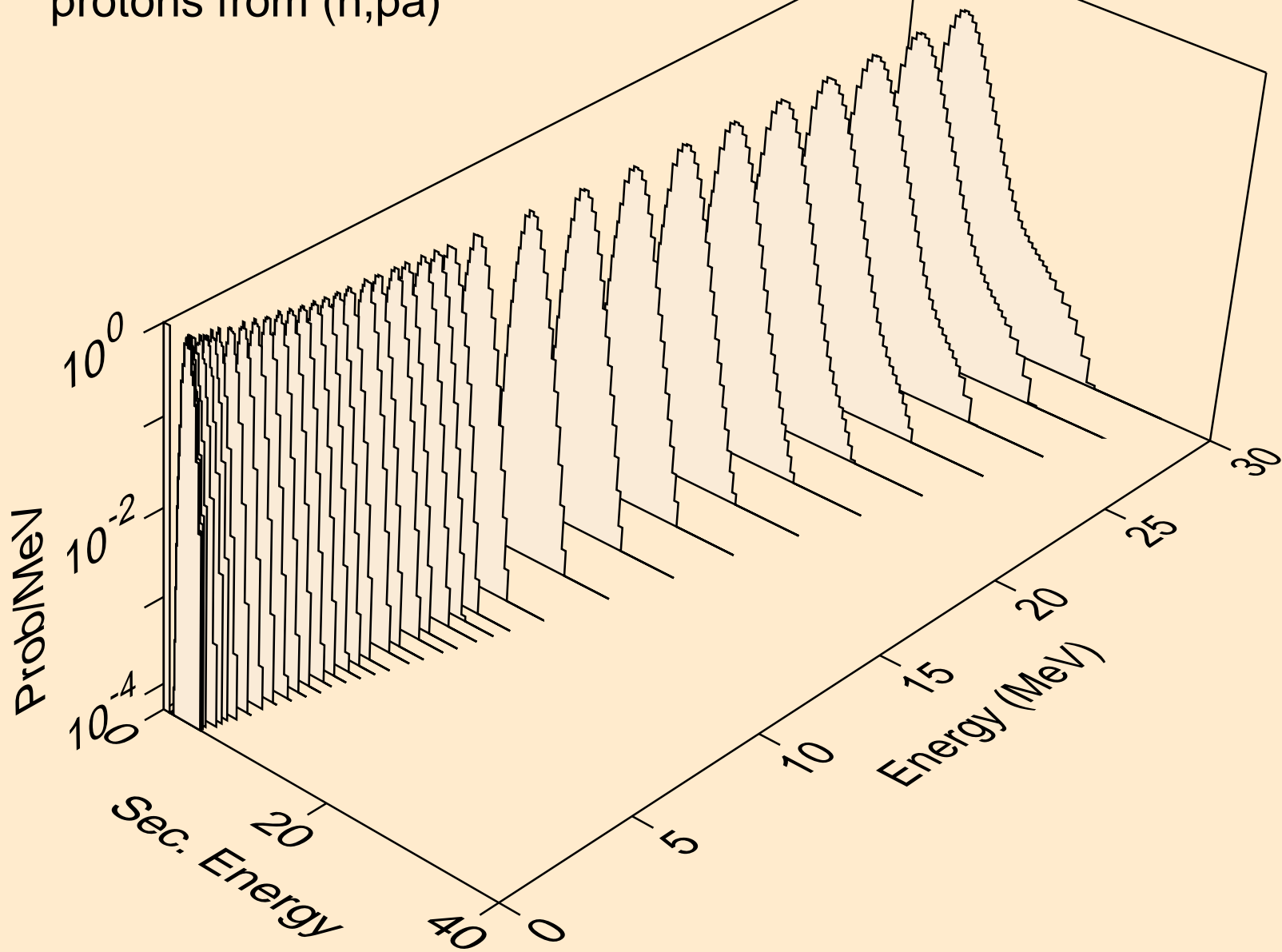
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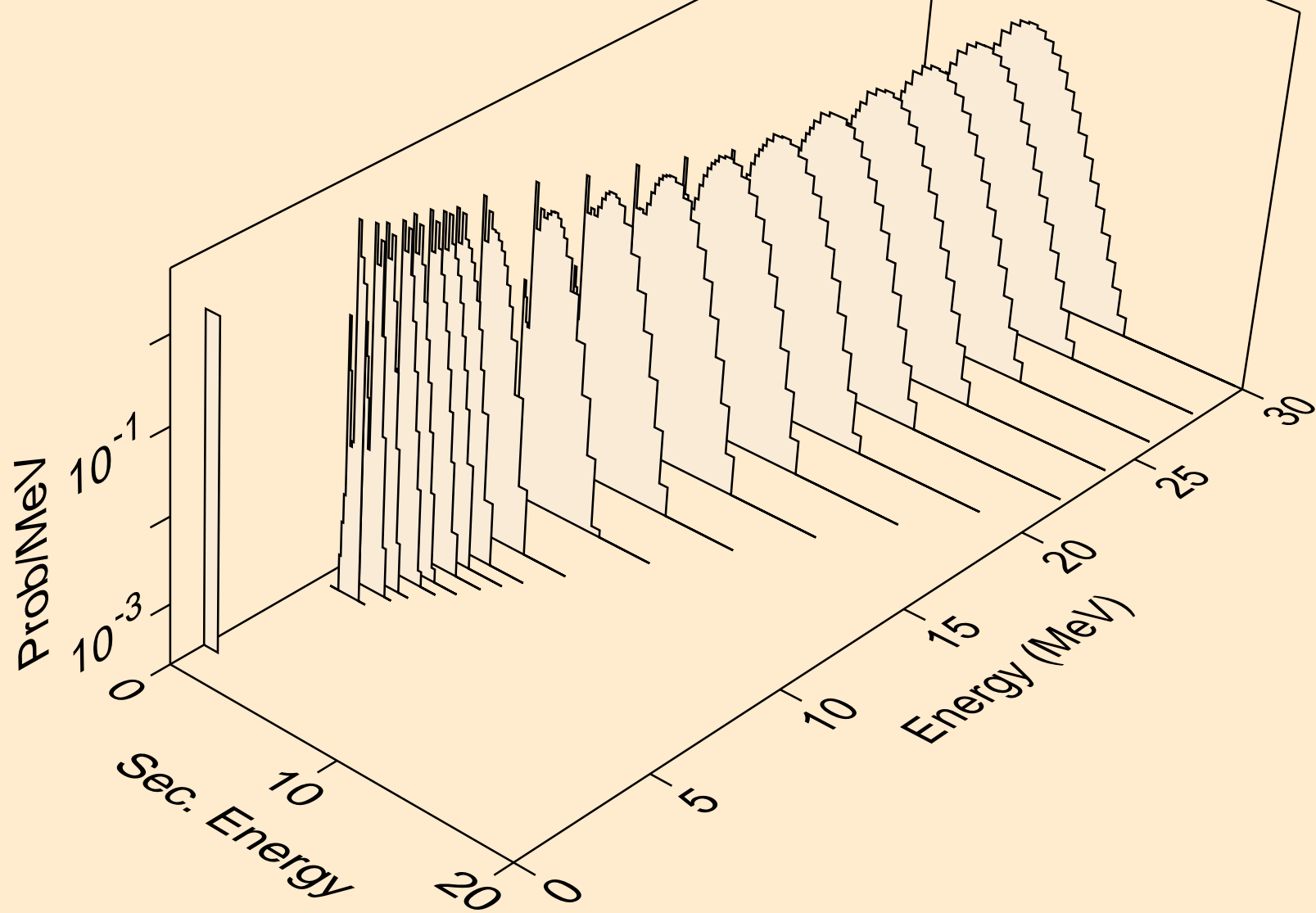
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protons from (n,2p)



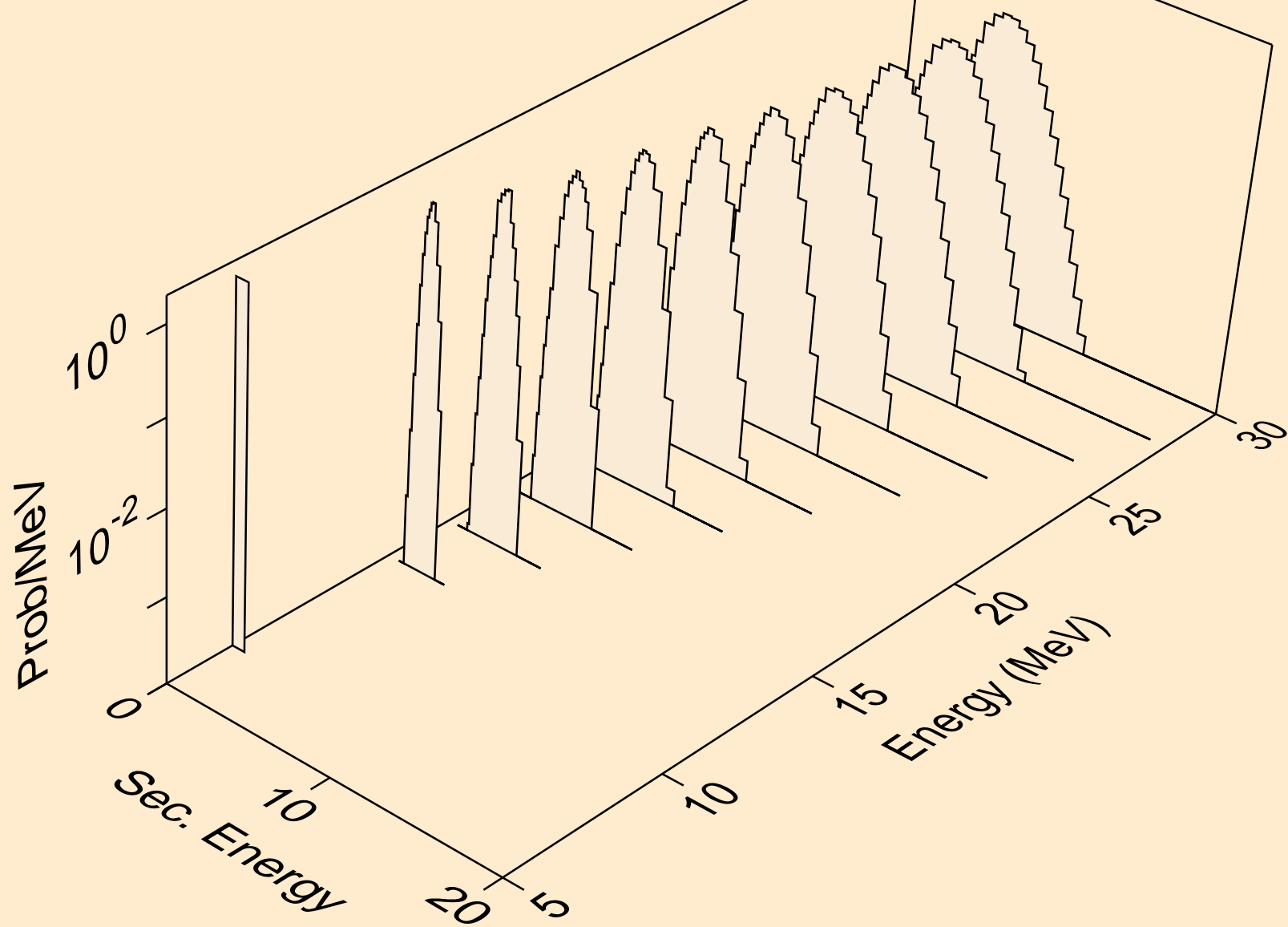
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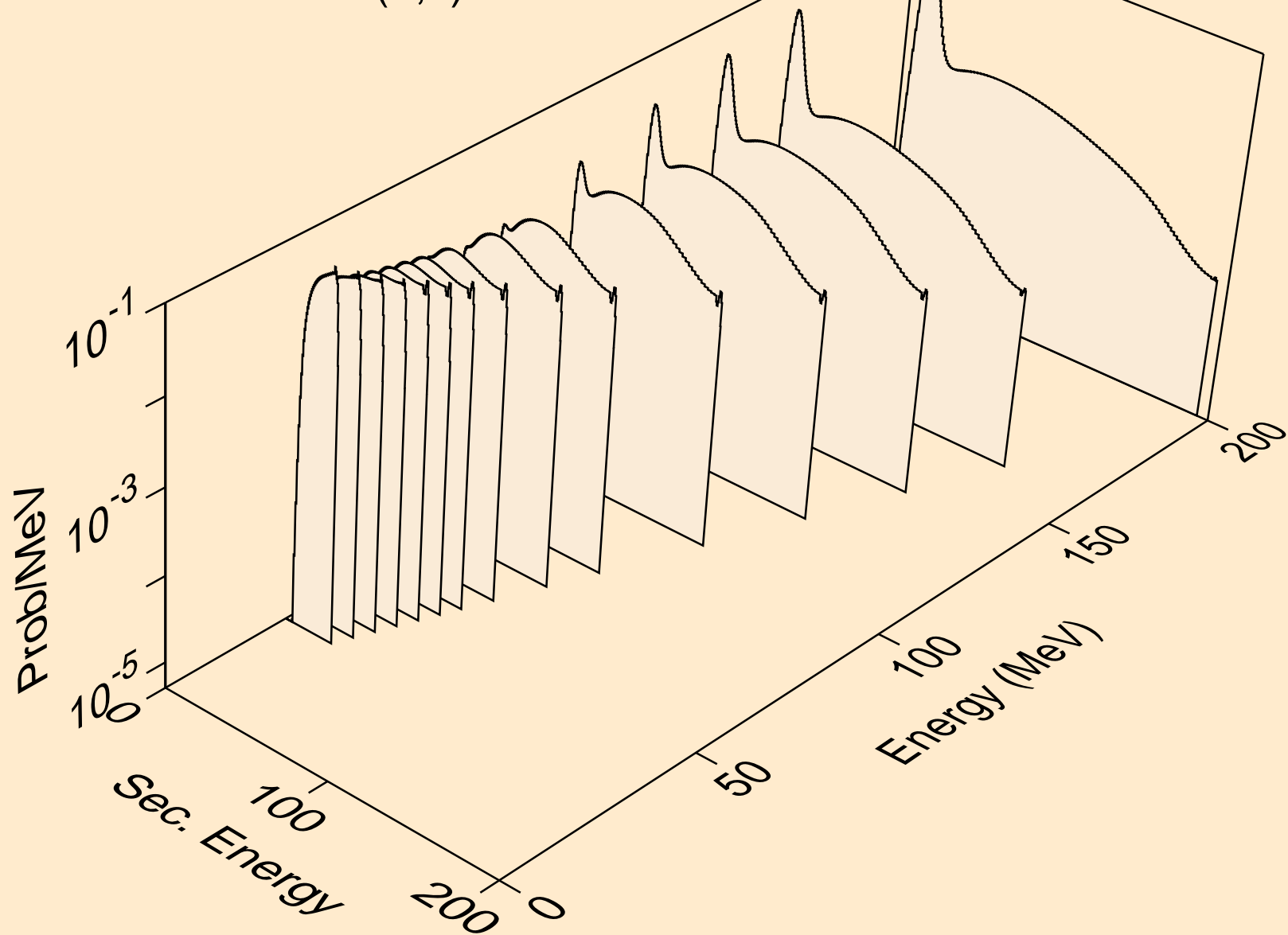
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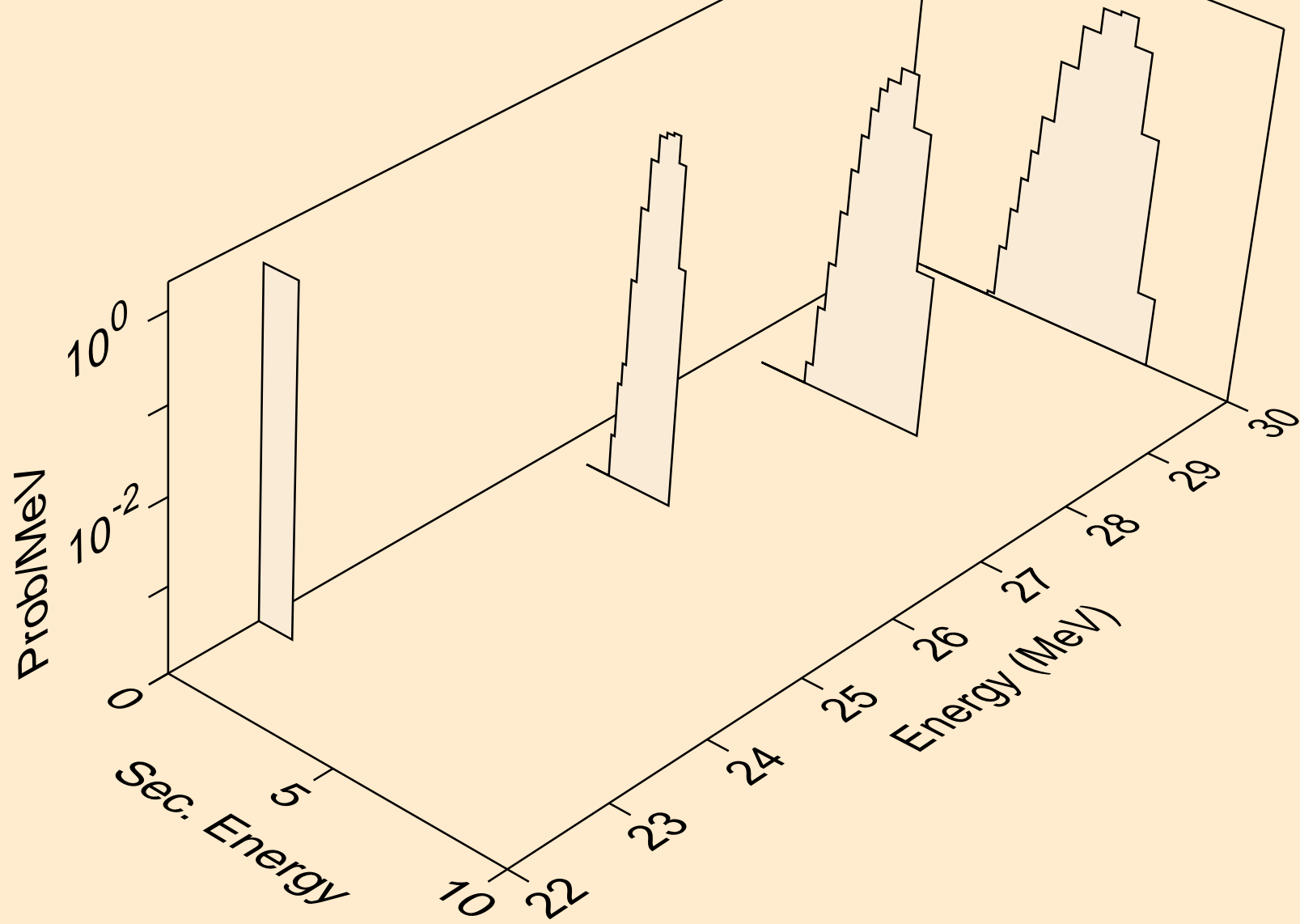
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protons from (n,pt)



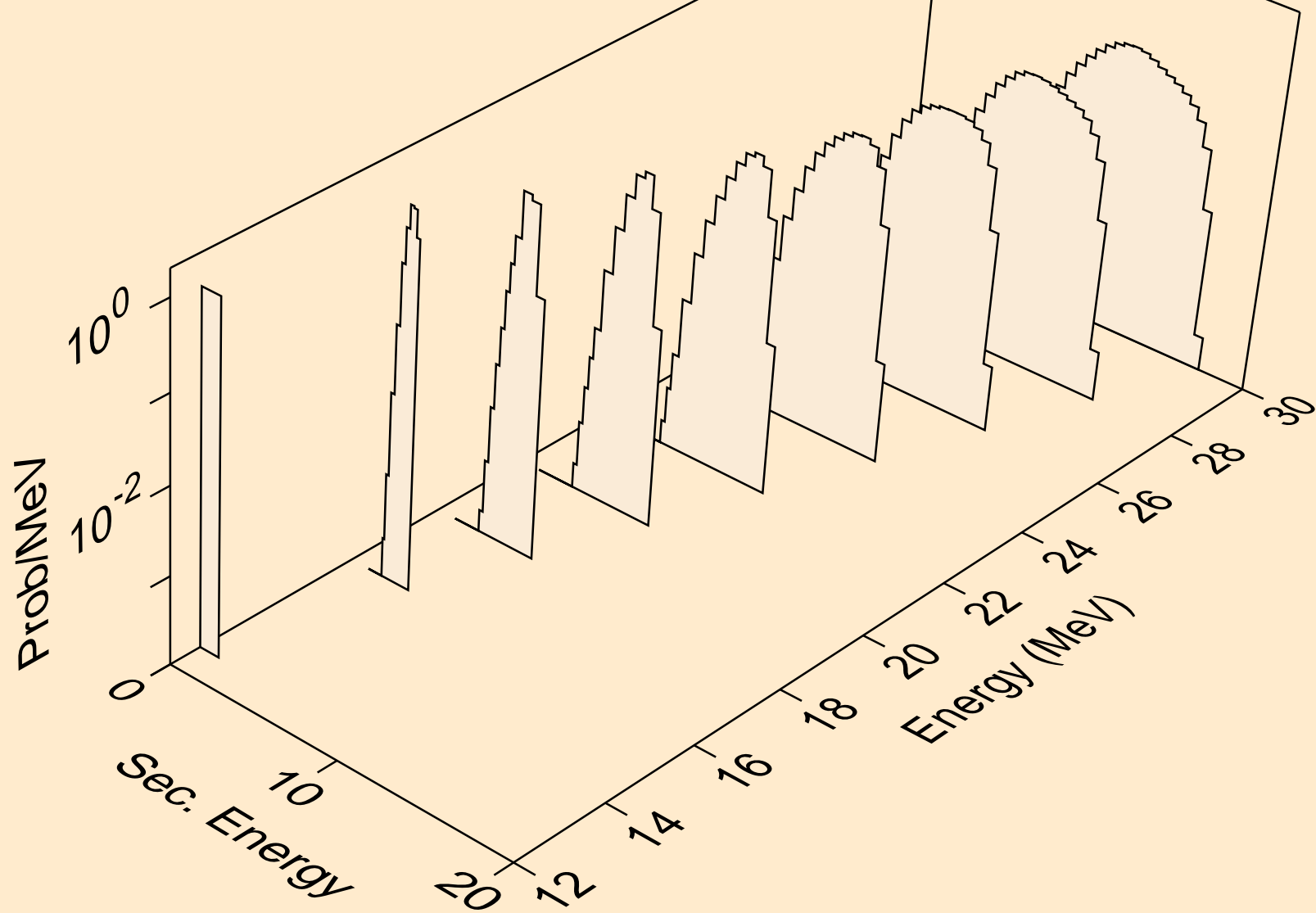
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deuterons from (n,x)



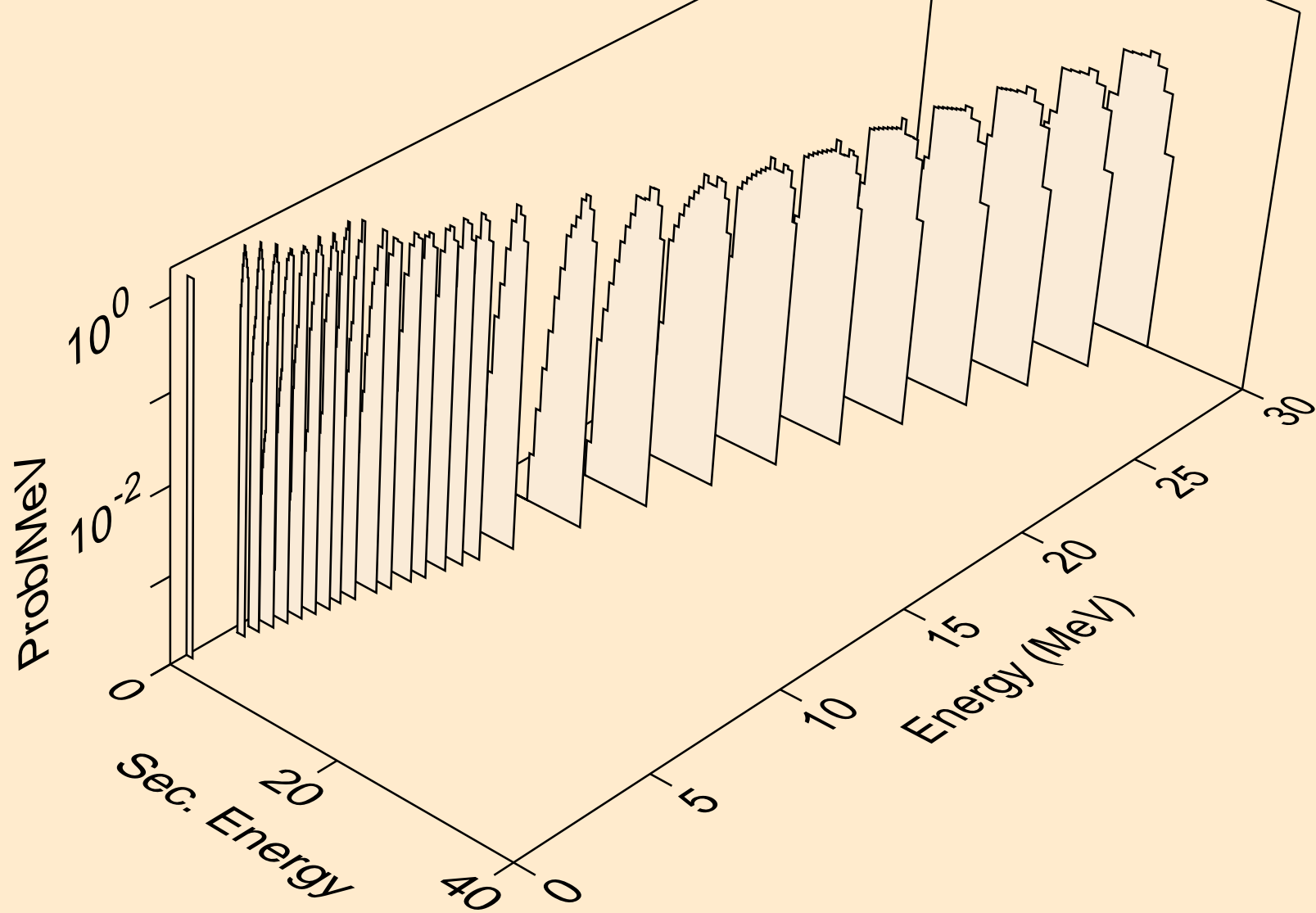
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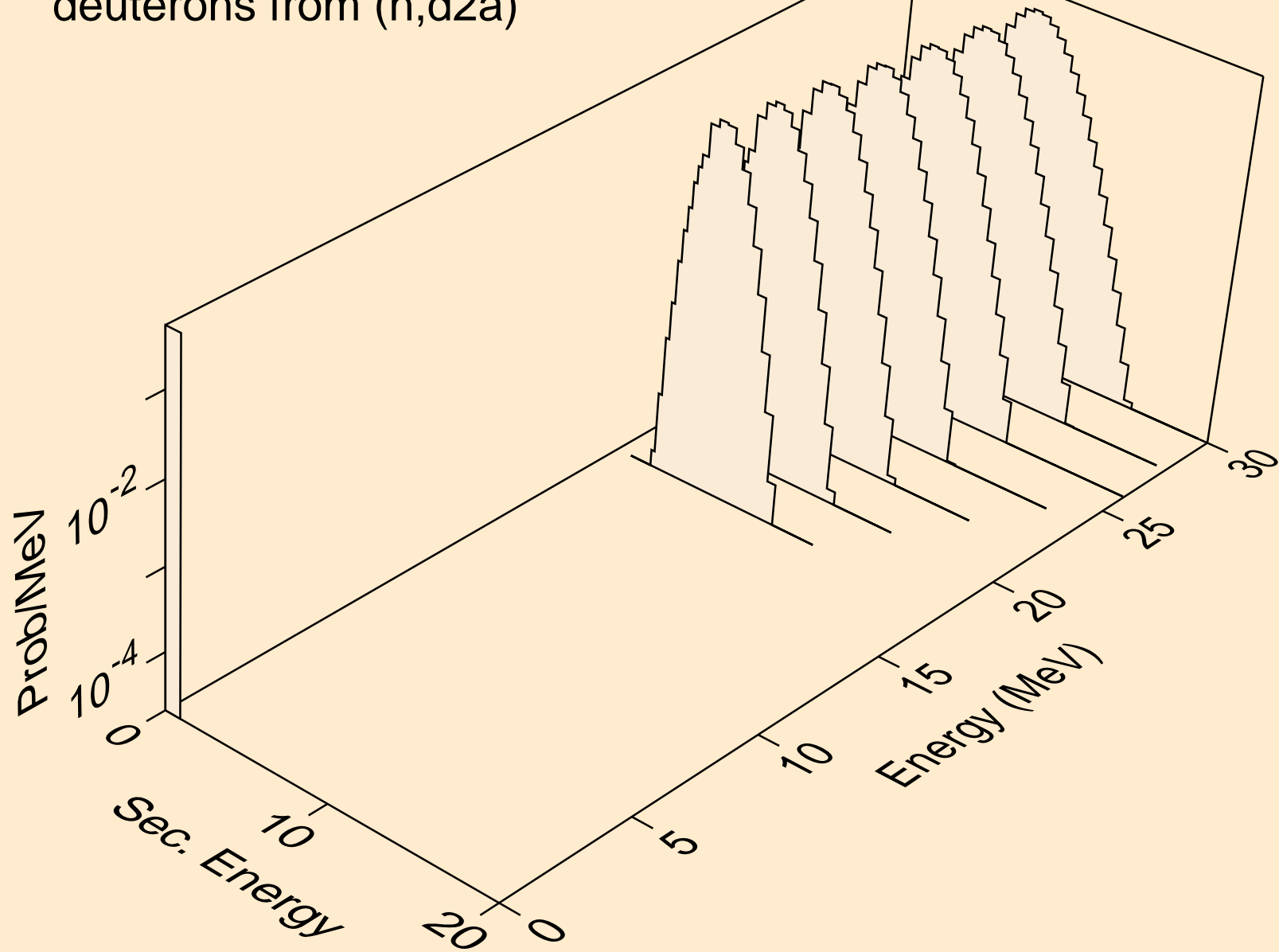
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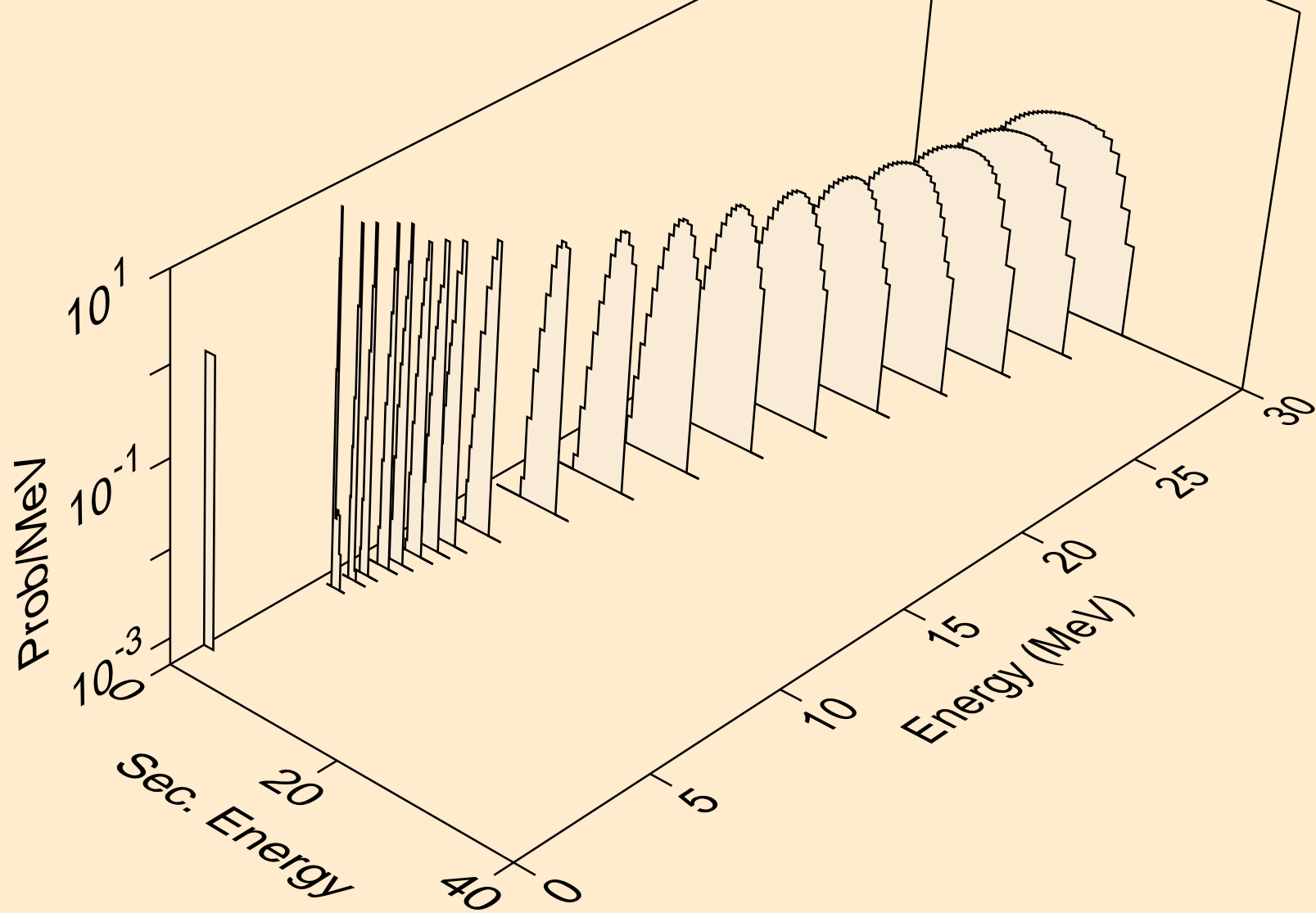
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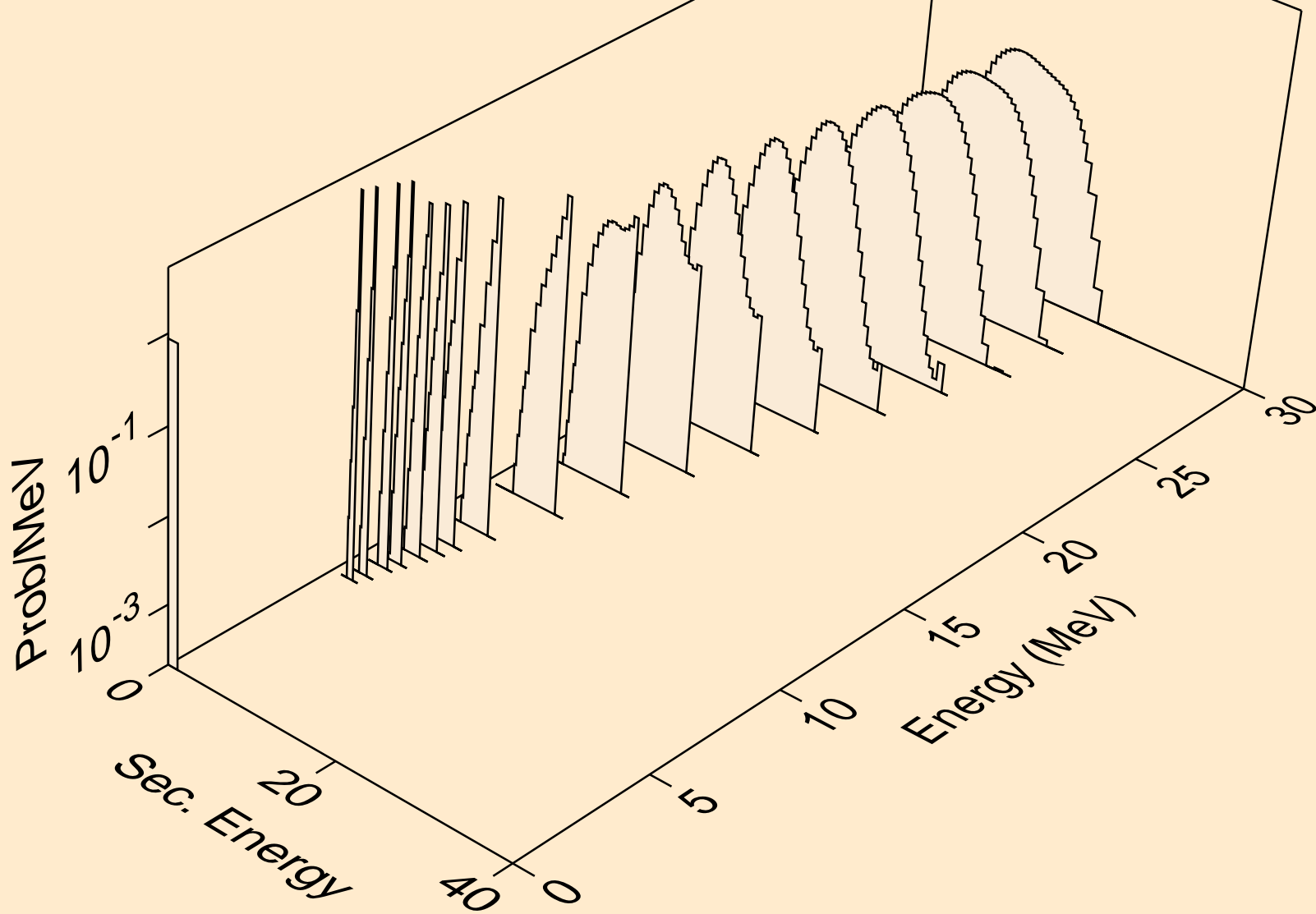
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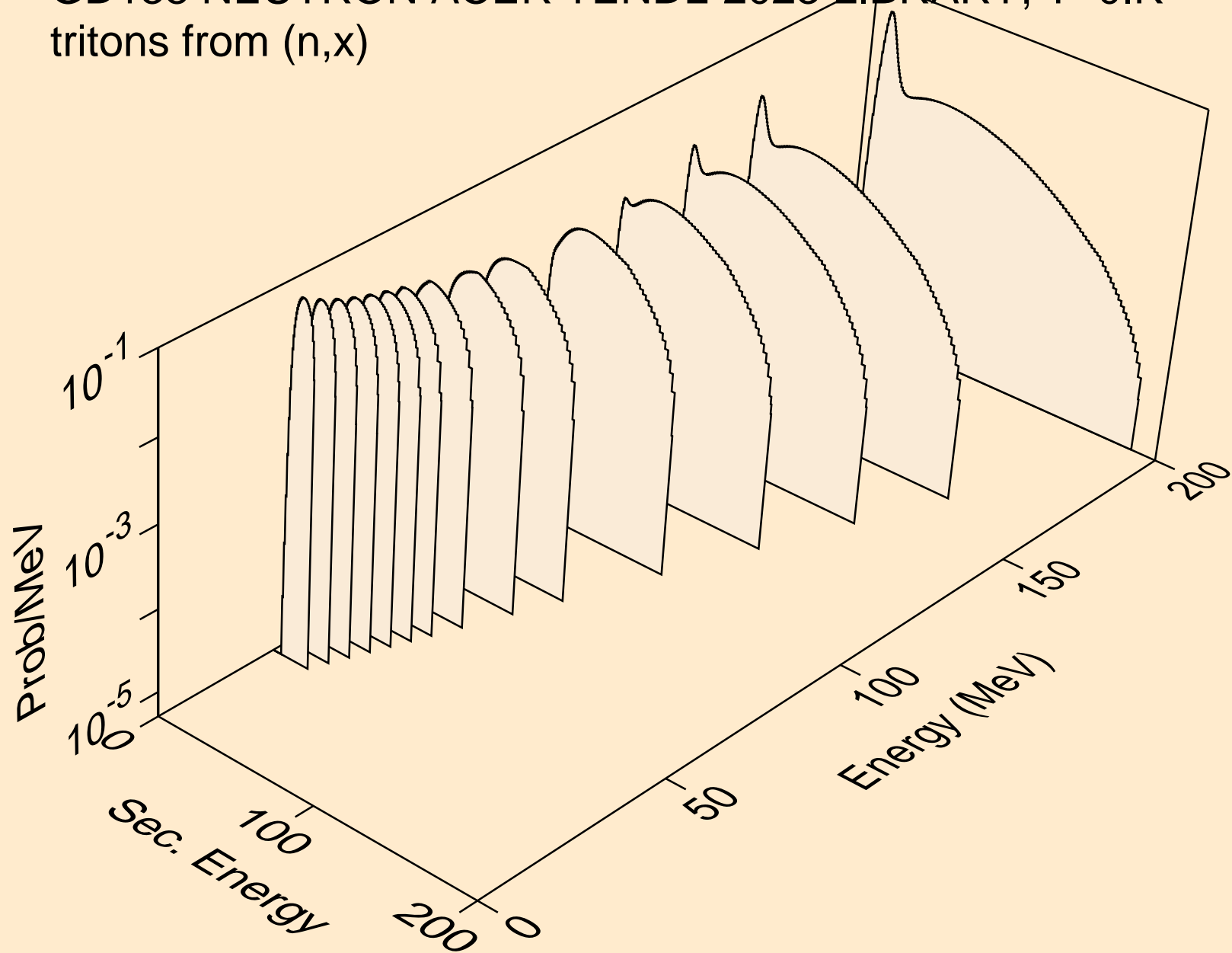
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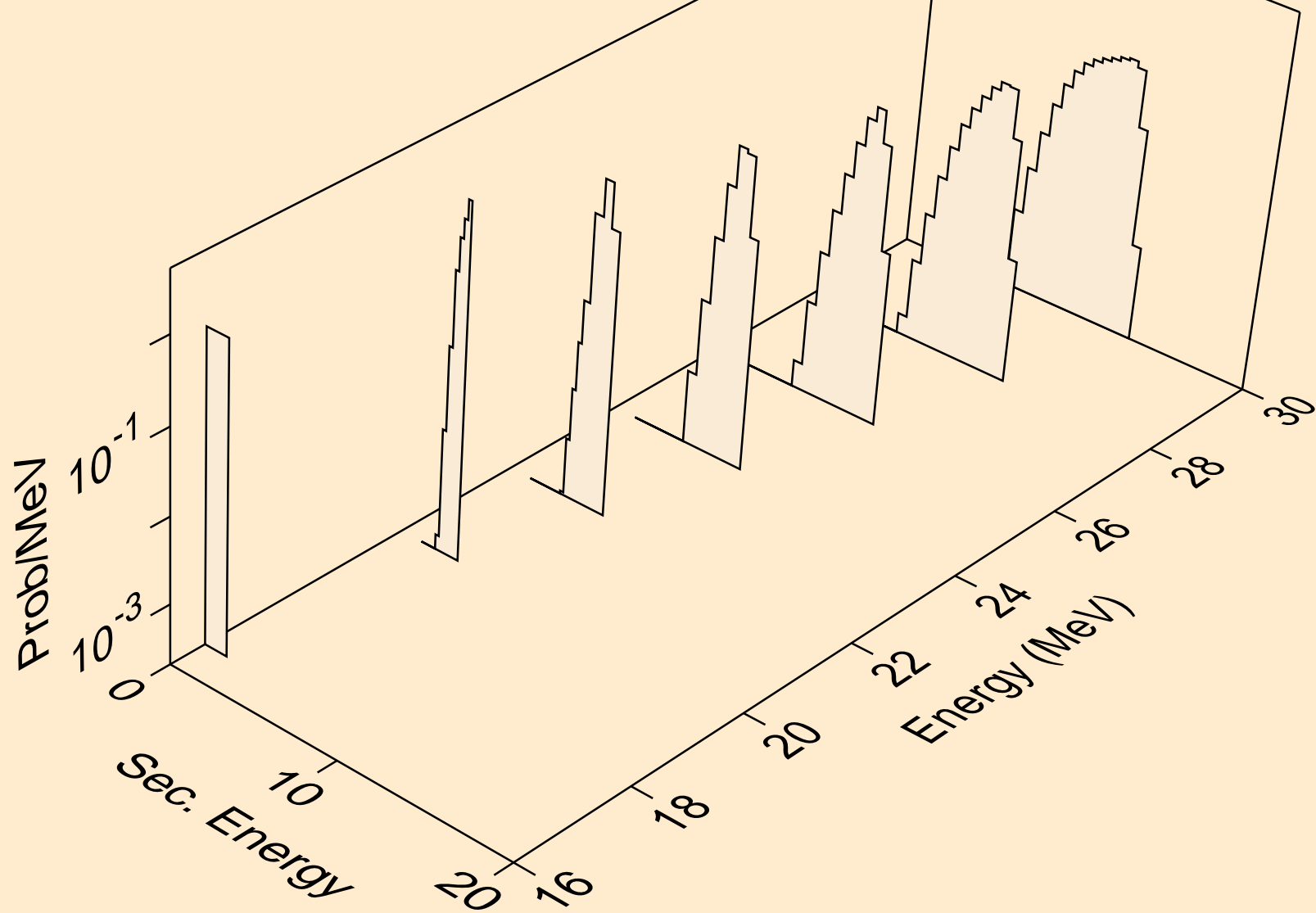
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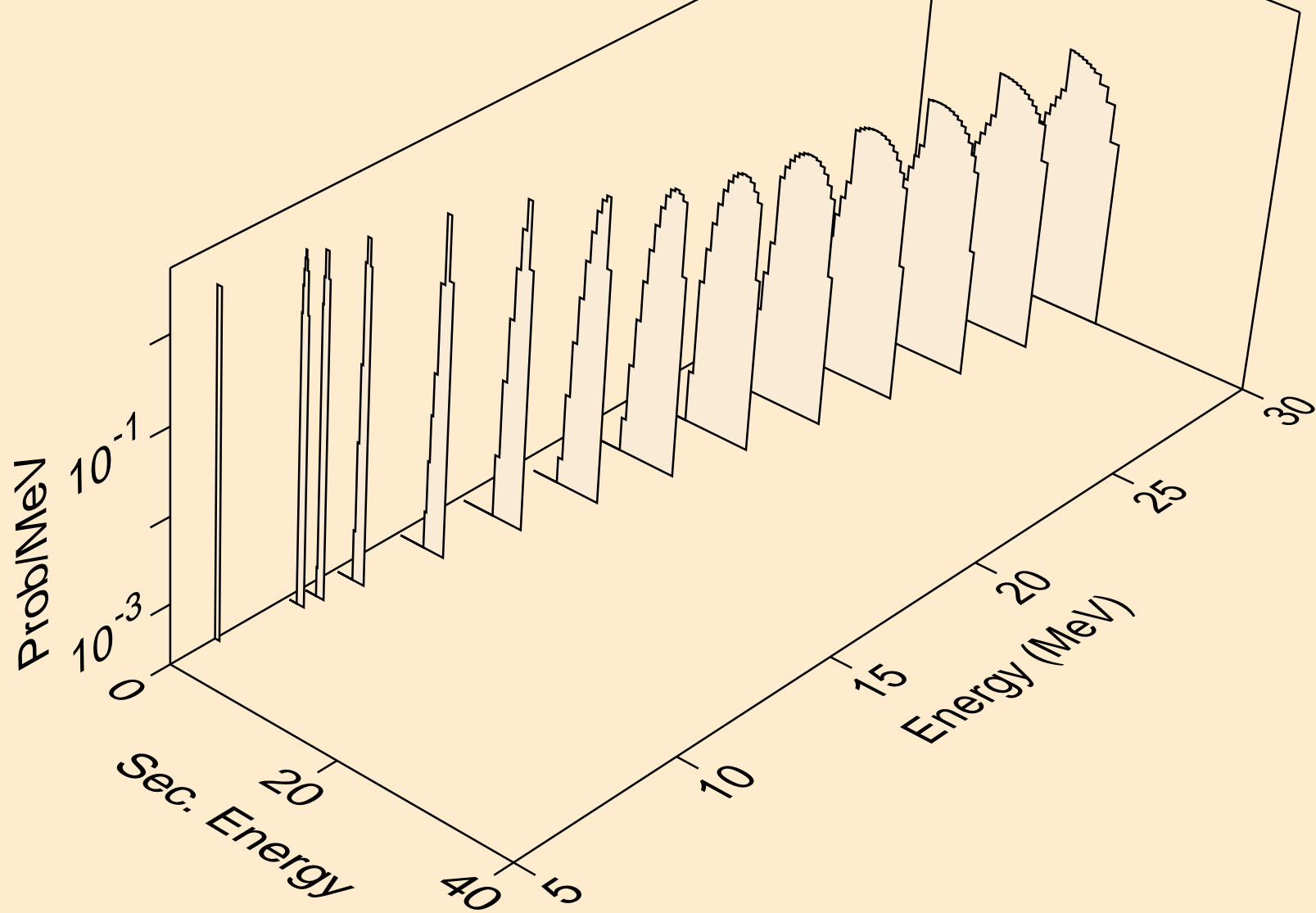
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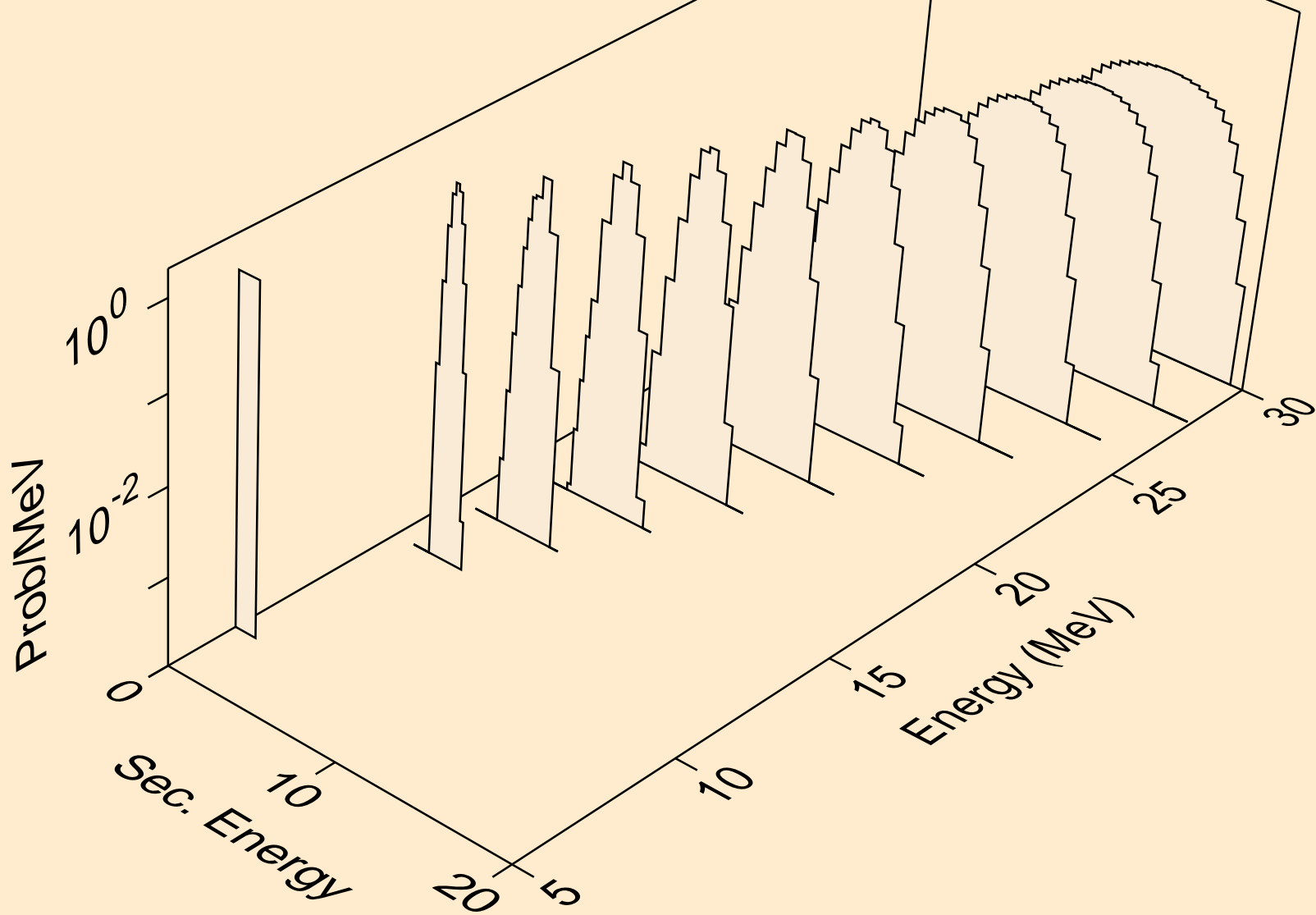
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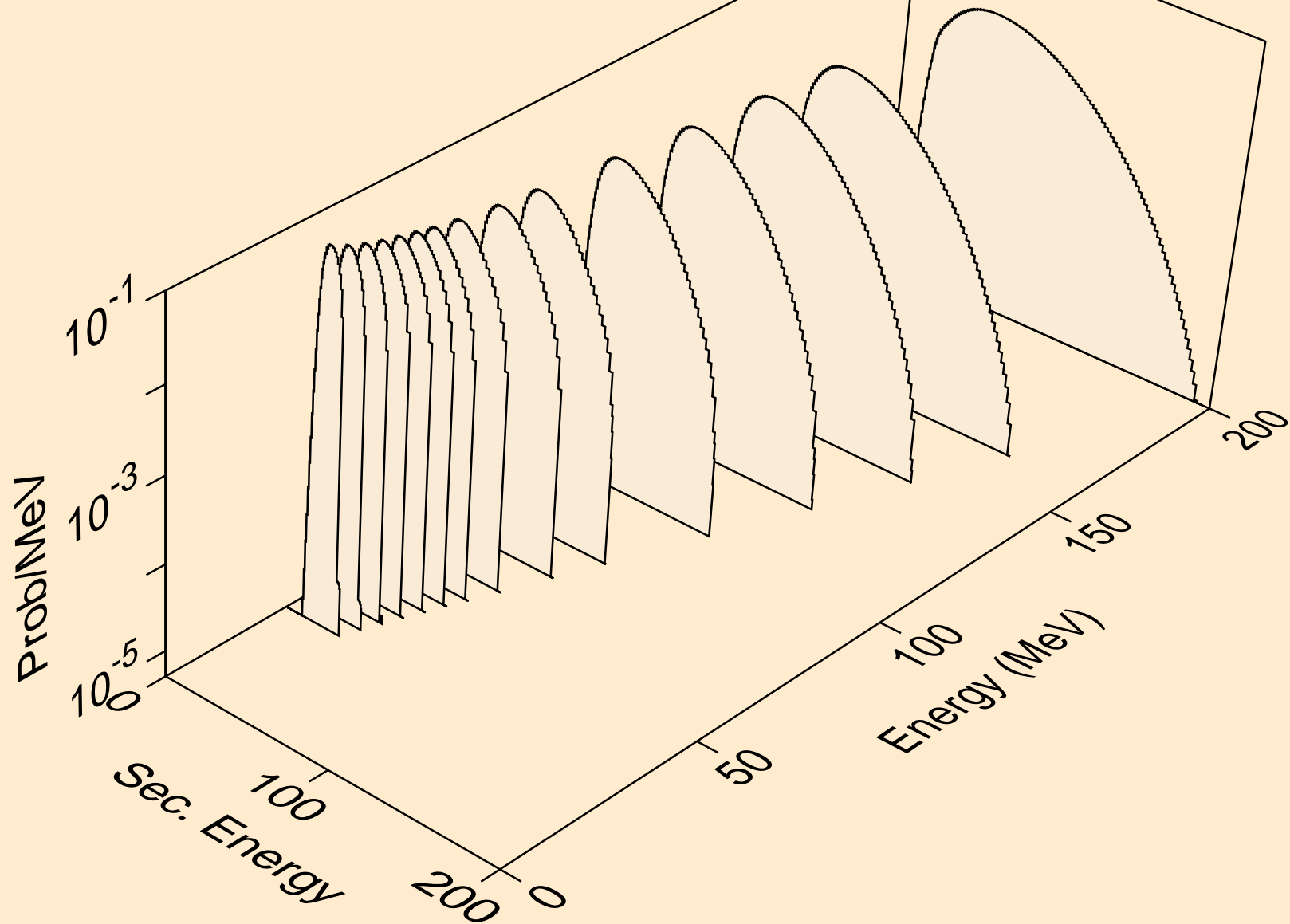
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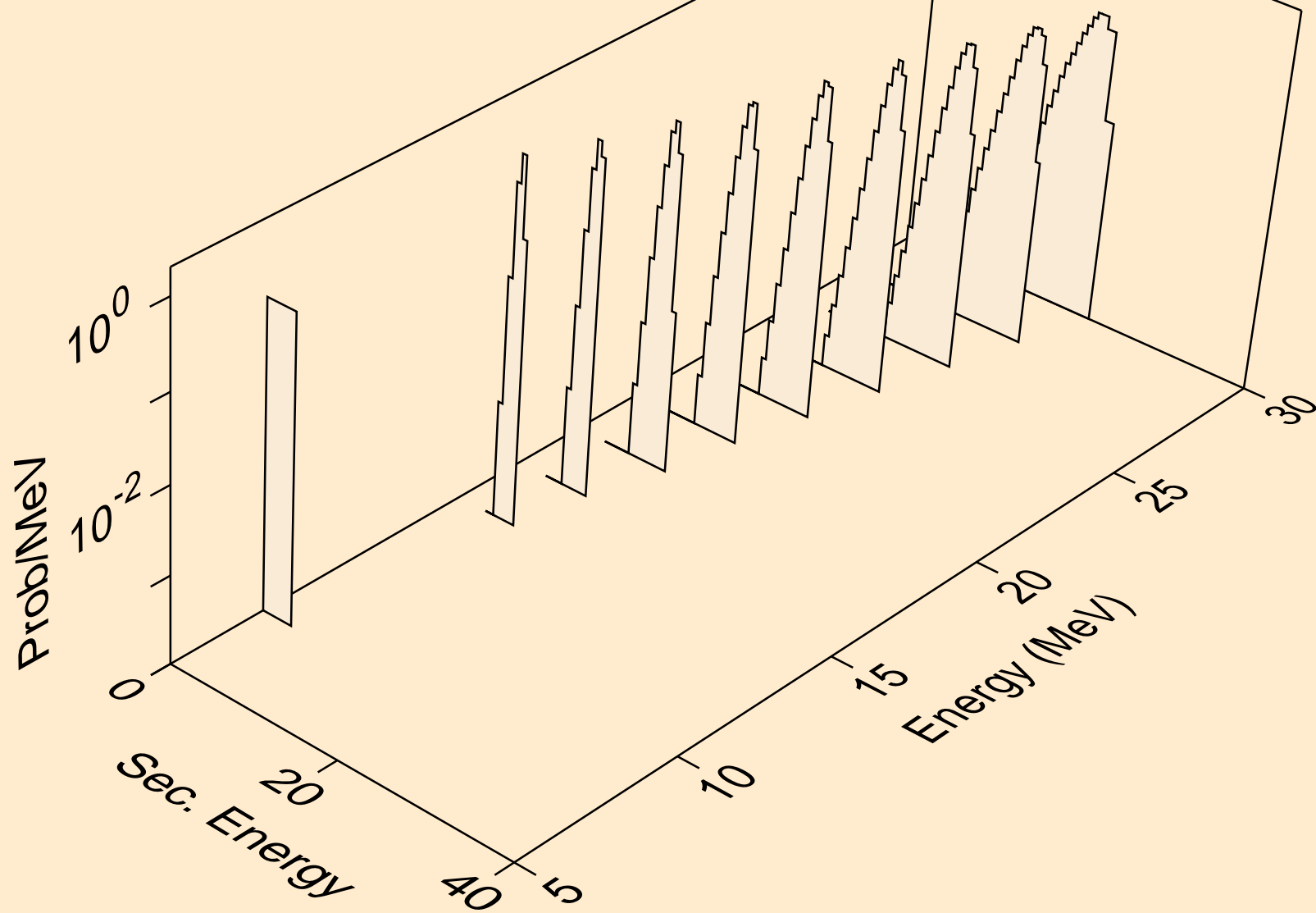
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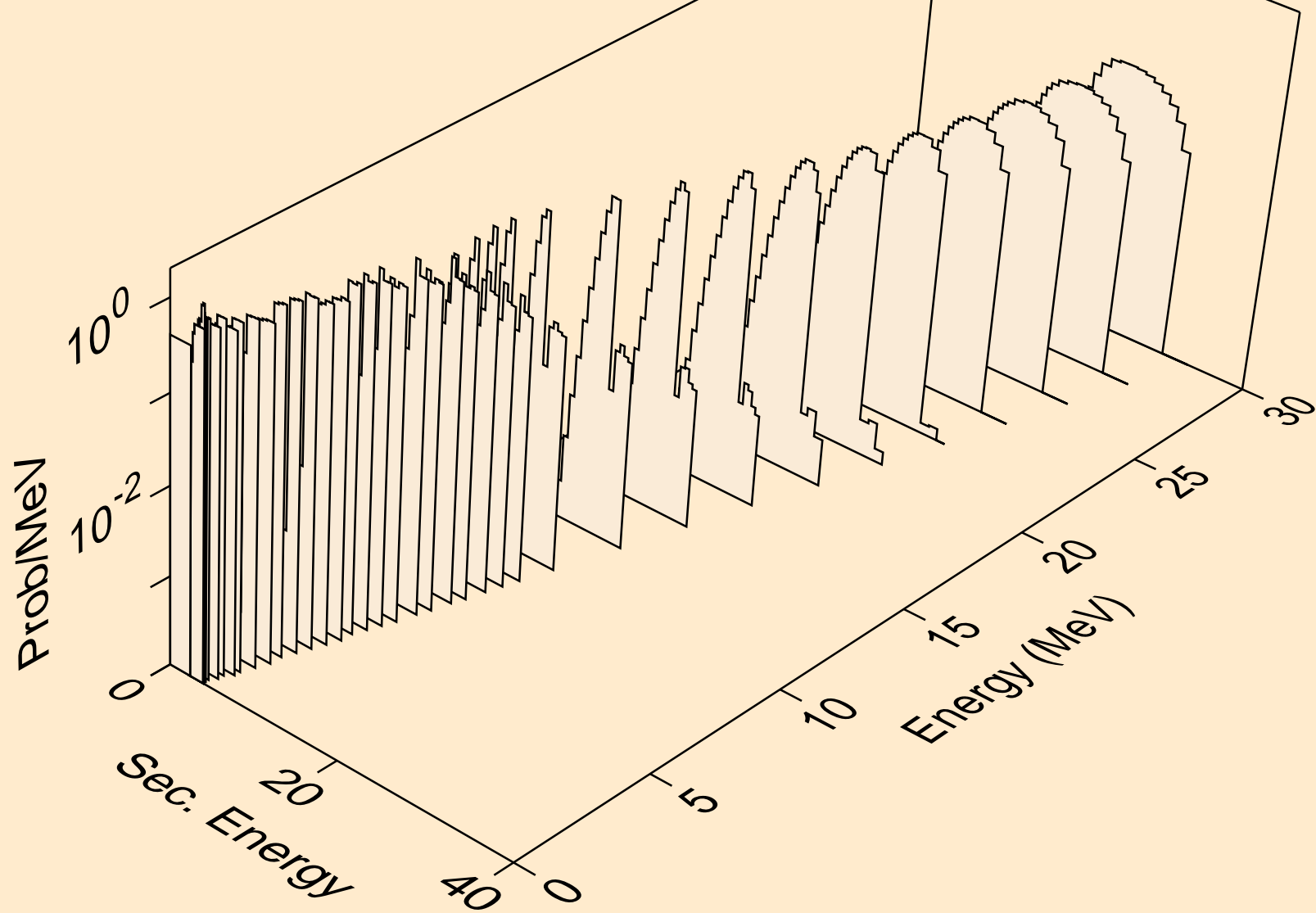
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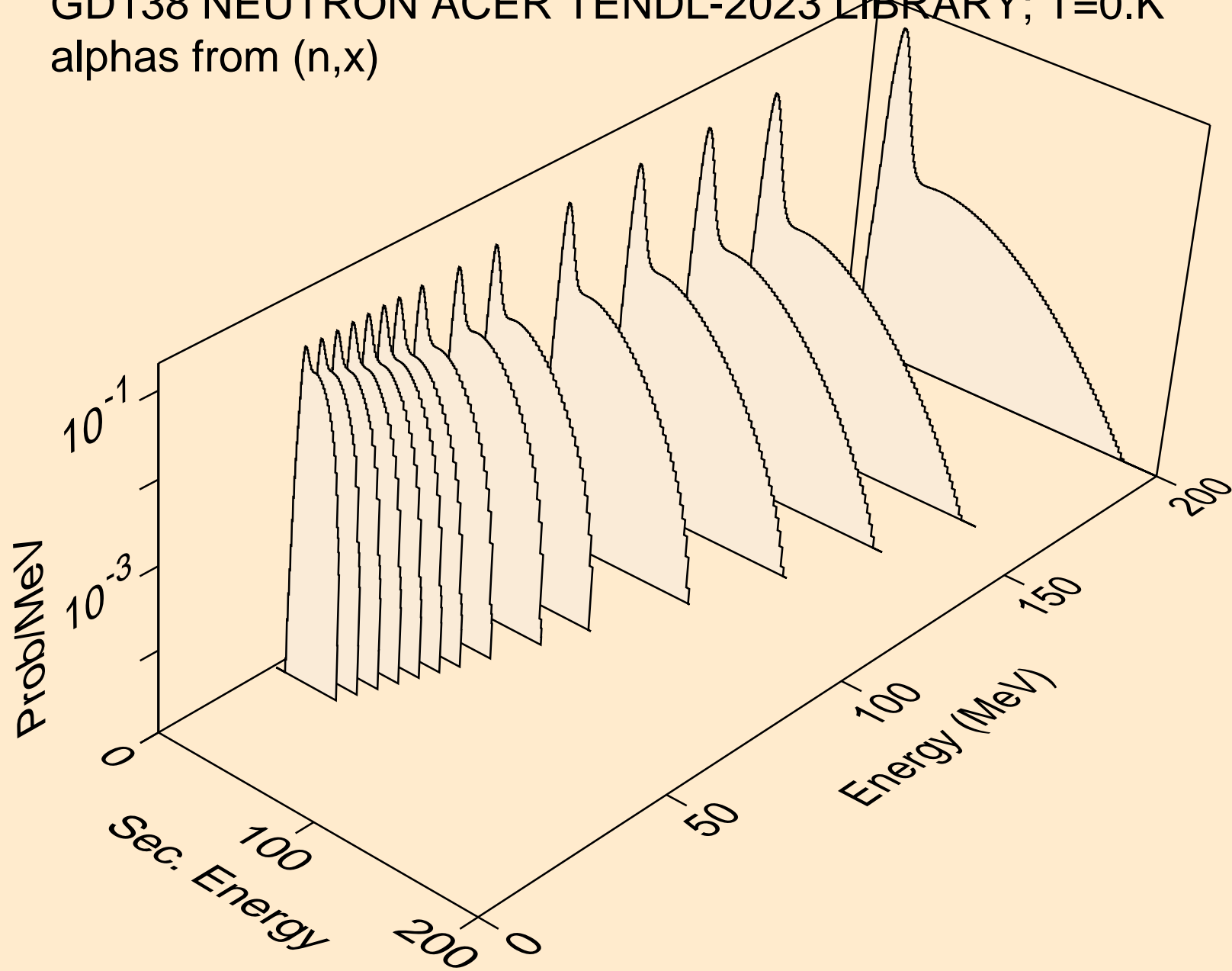
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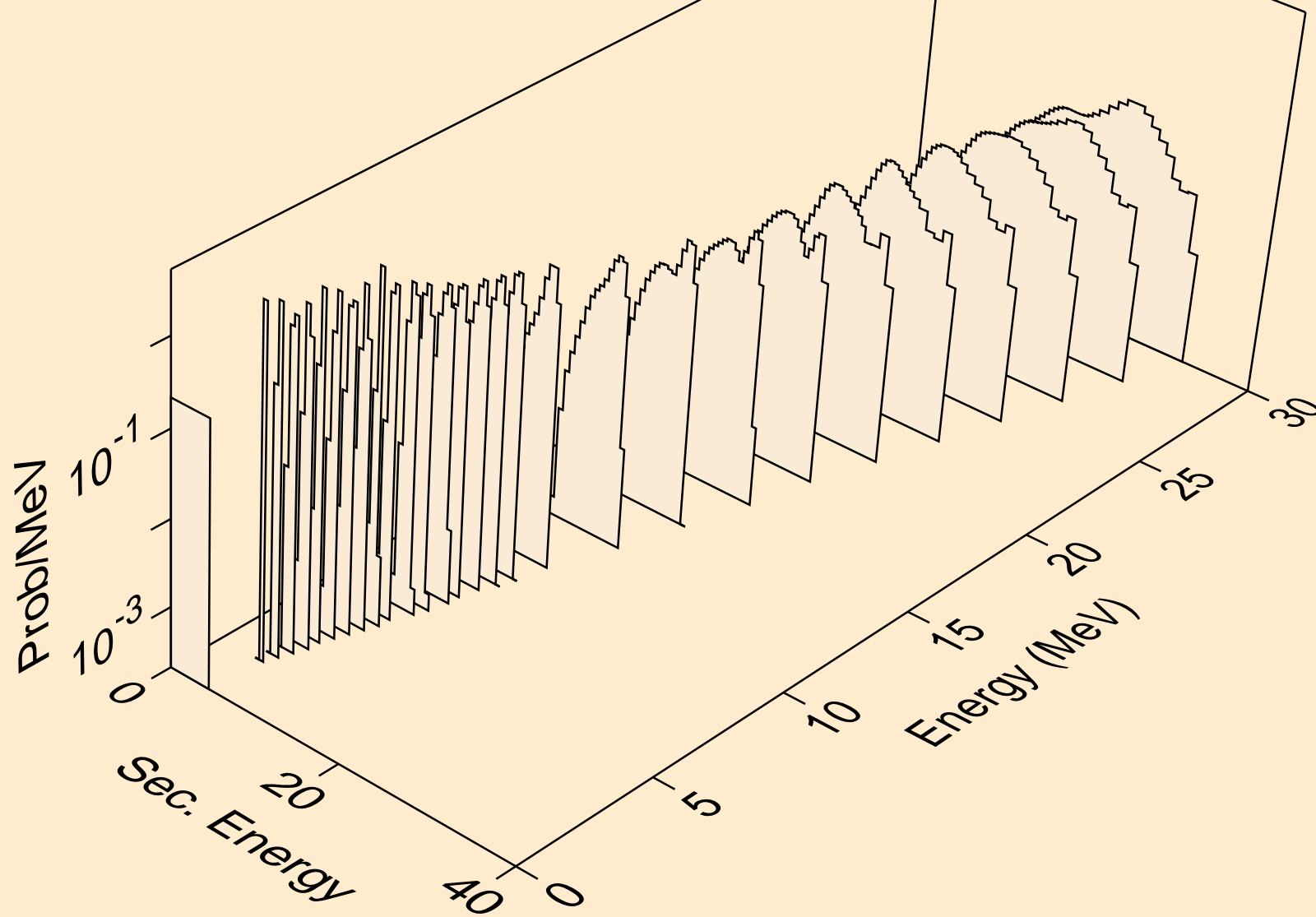
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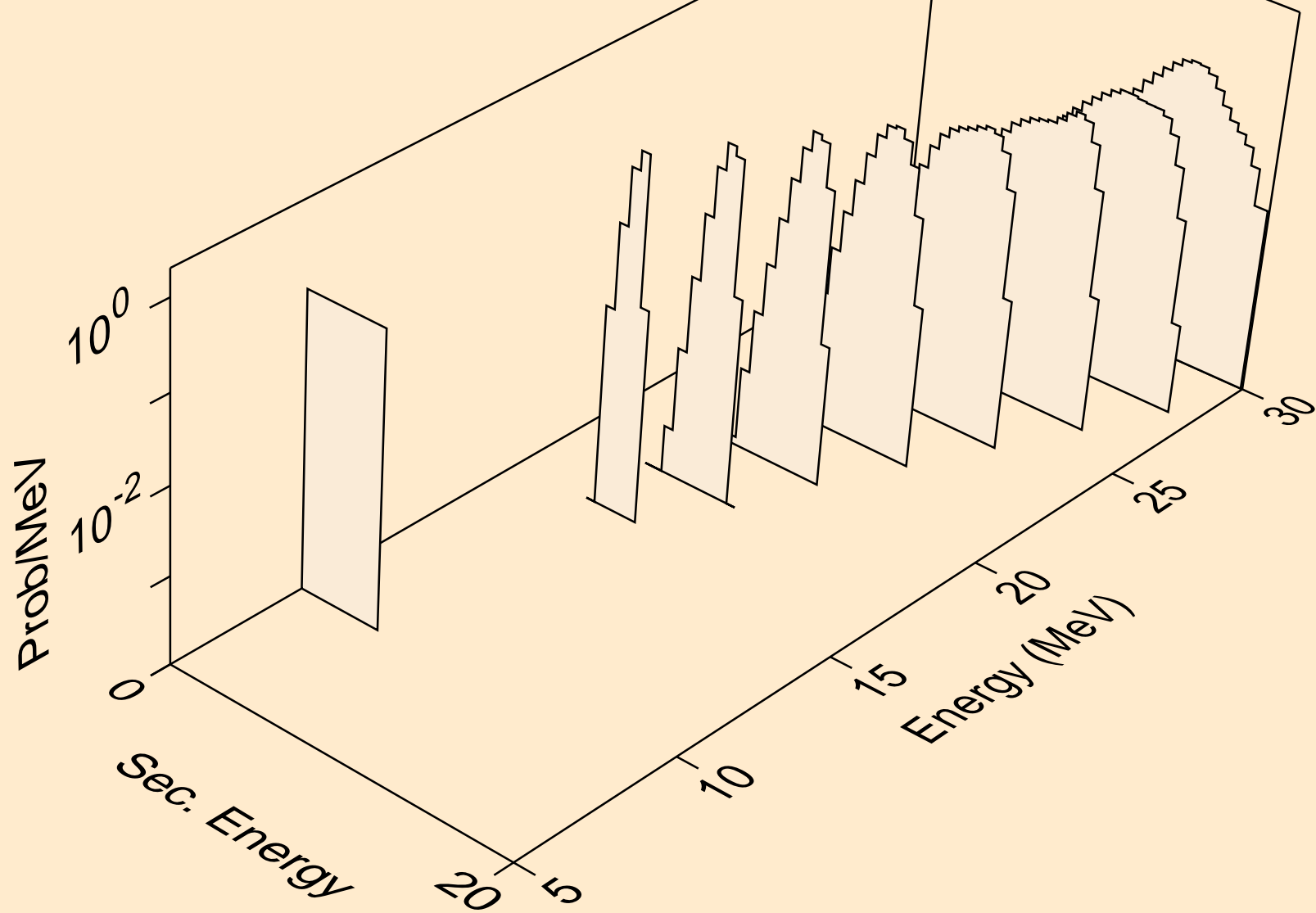
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alphas from (n,x)



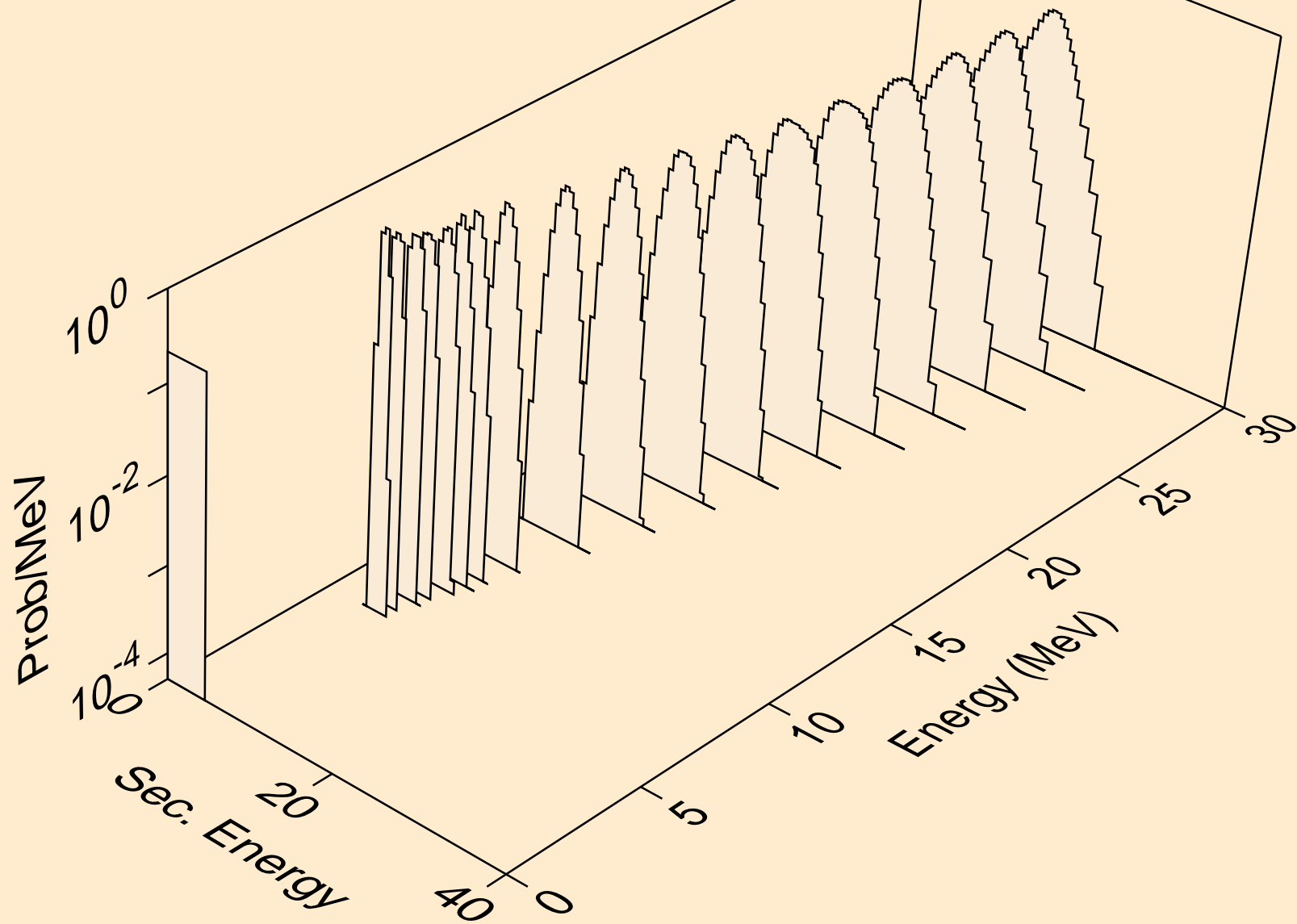
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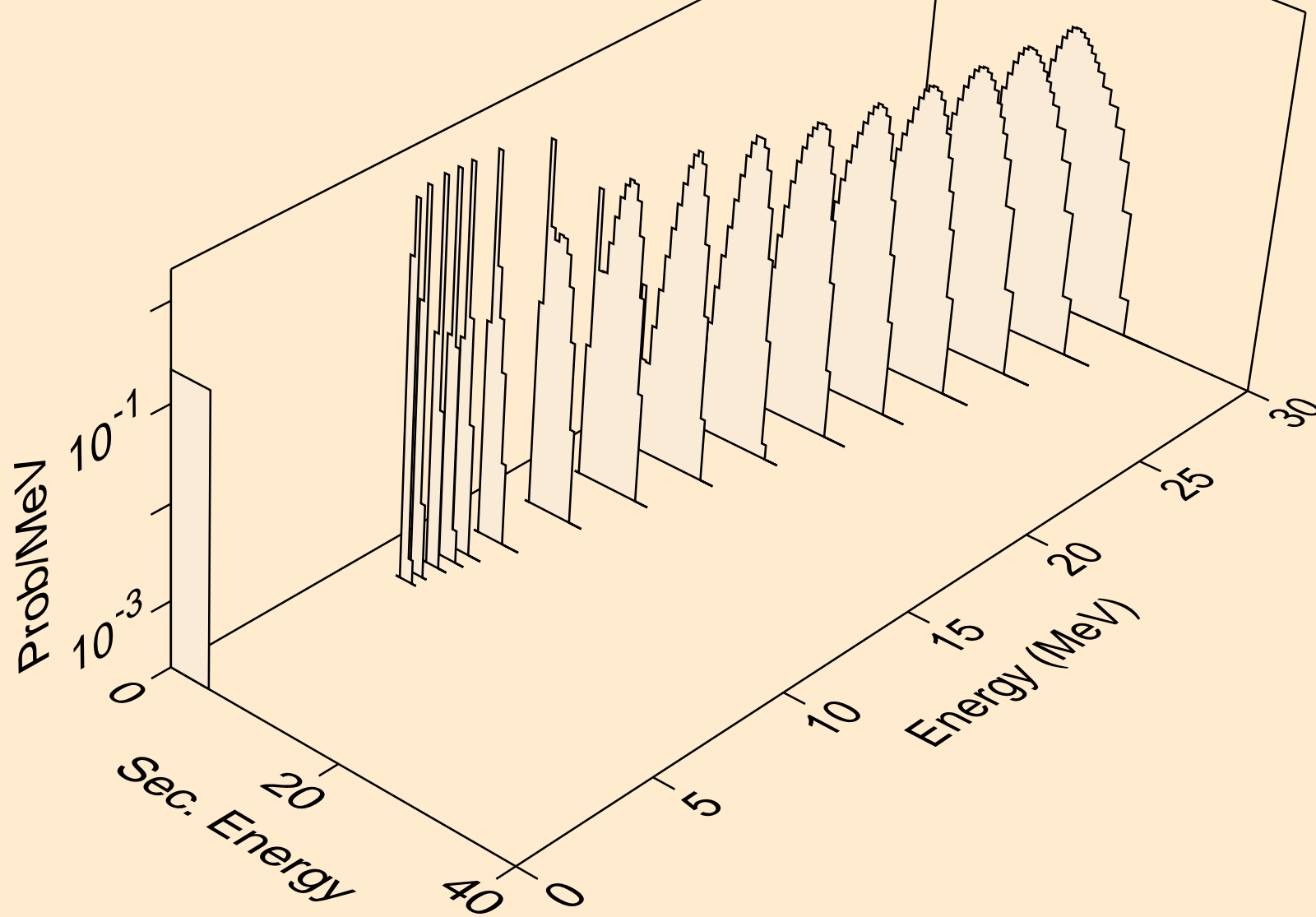
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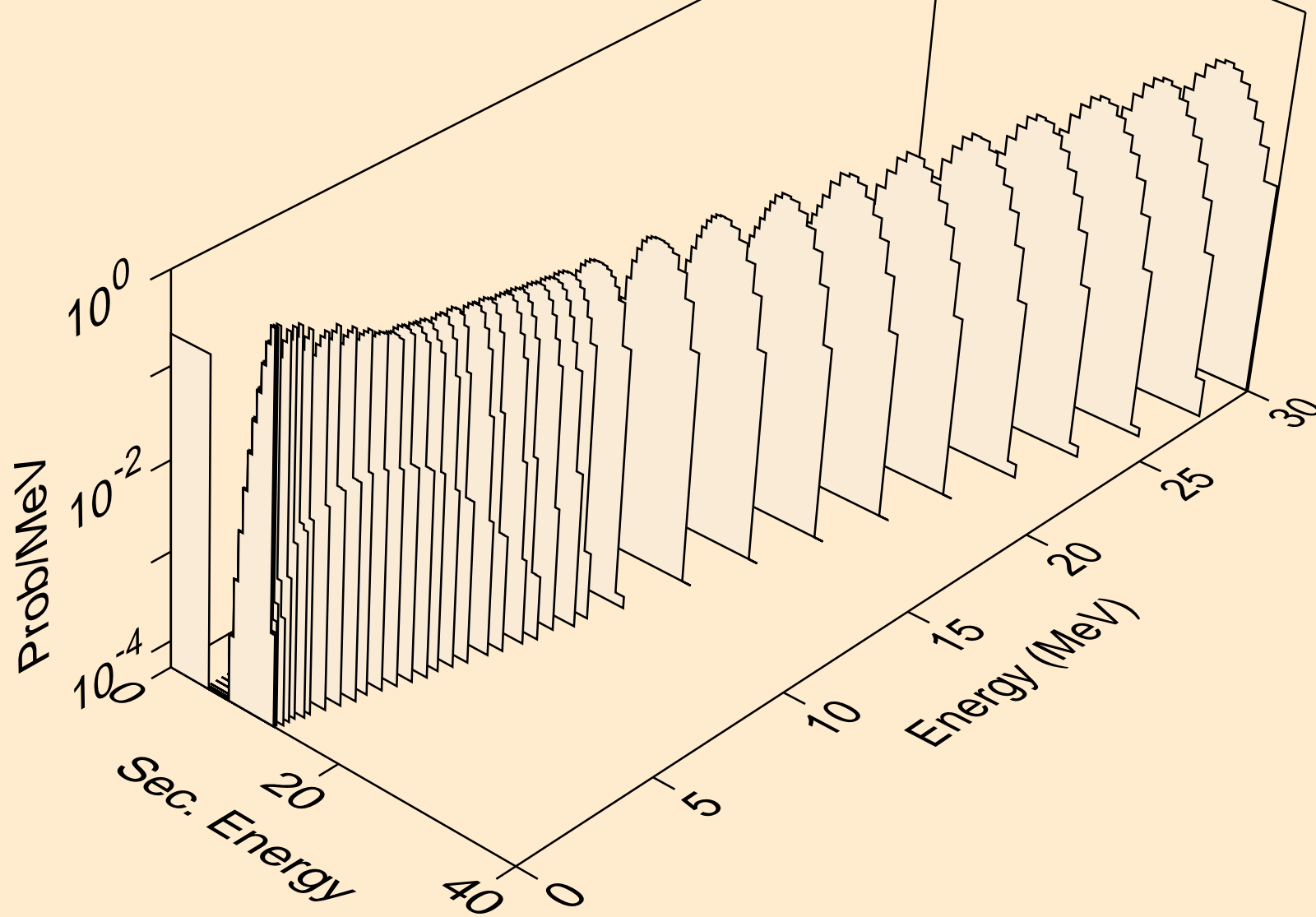
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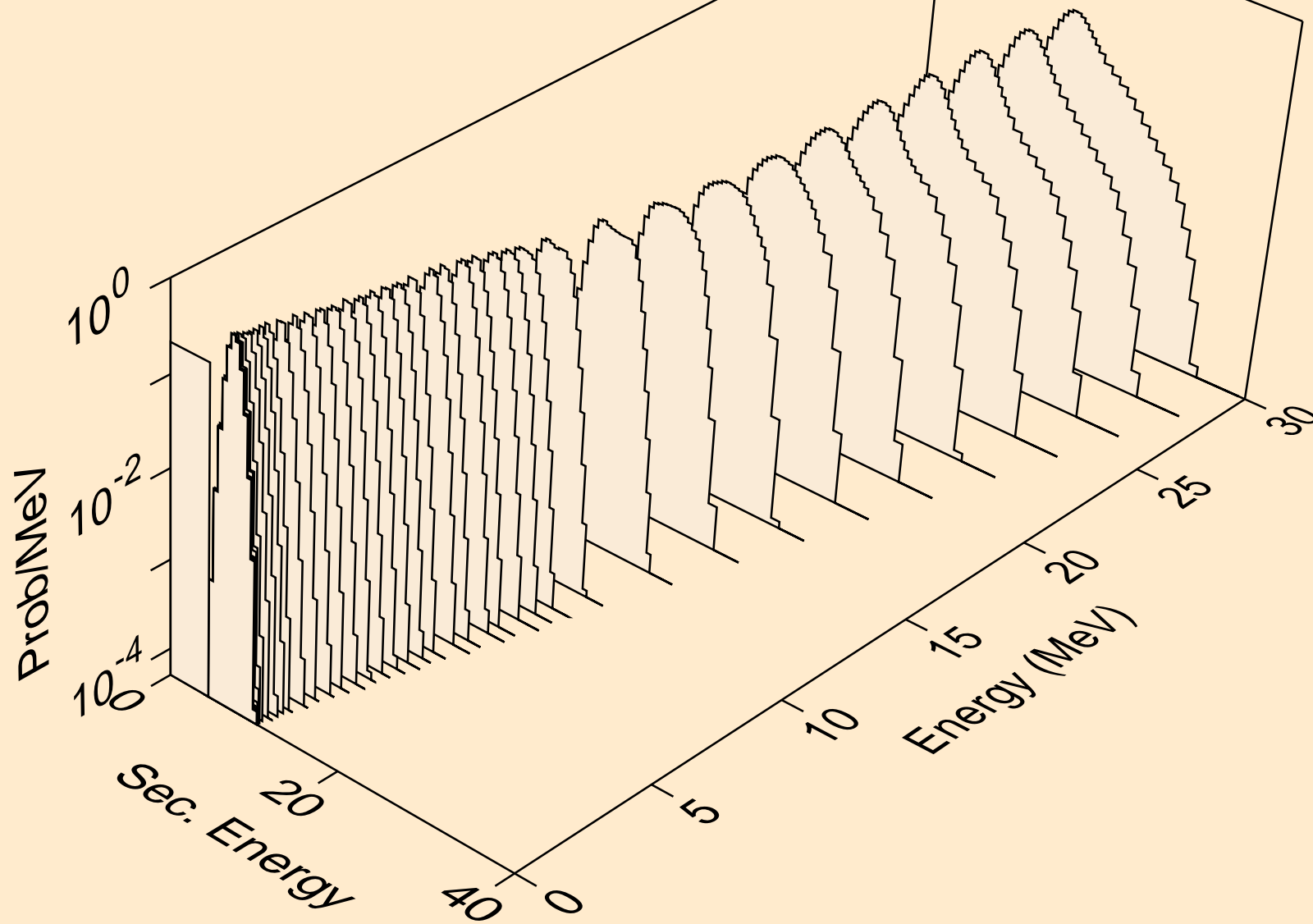
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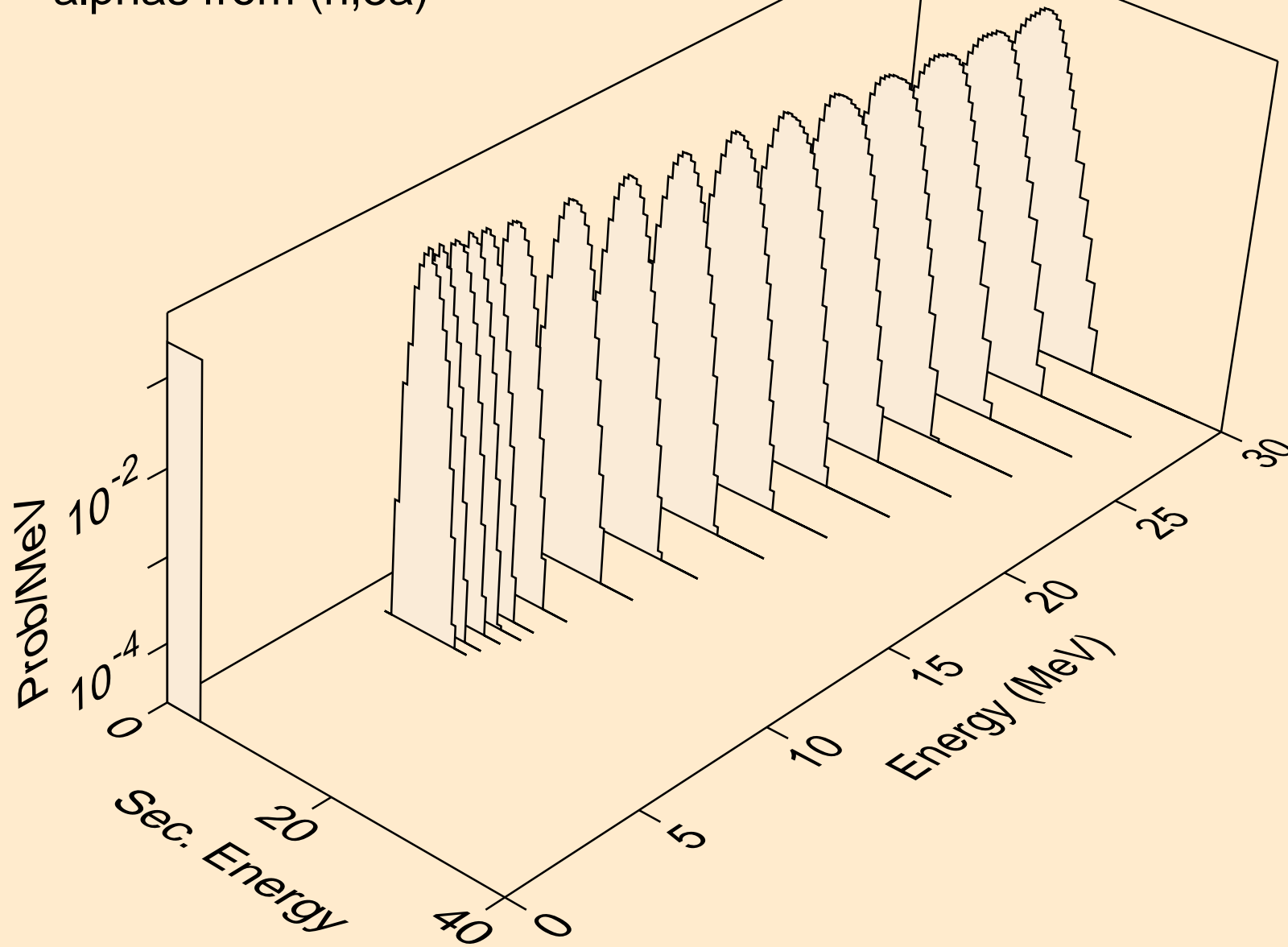
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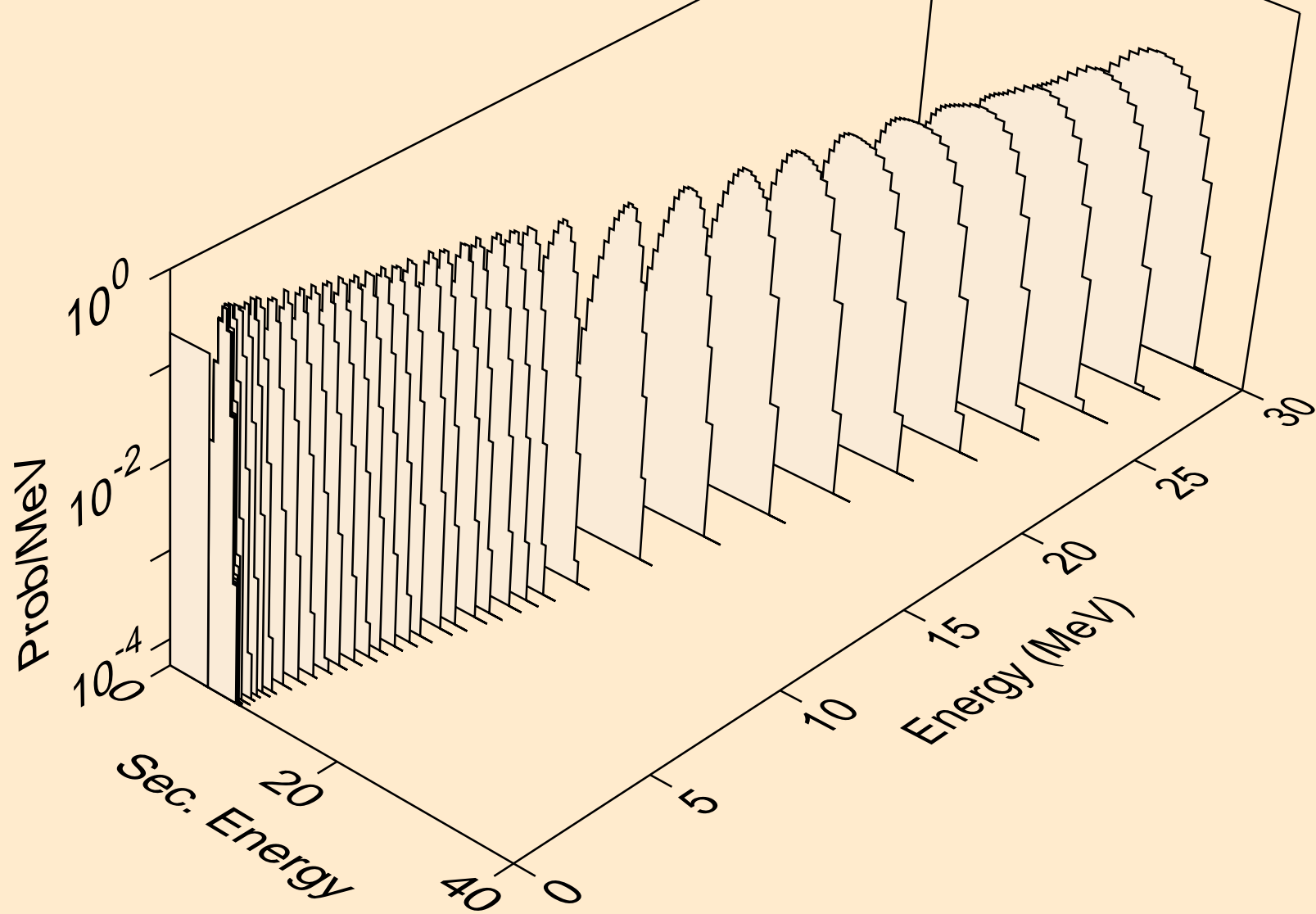
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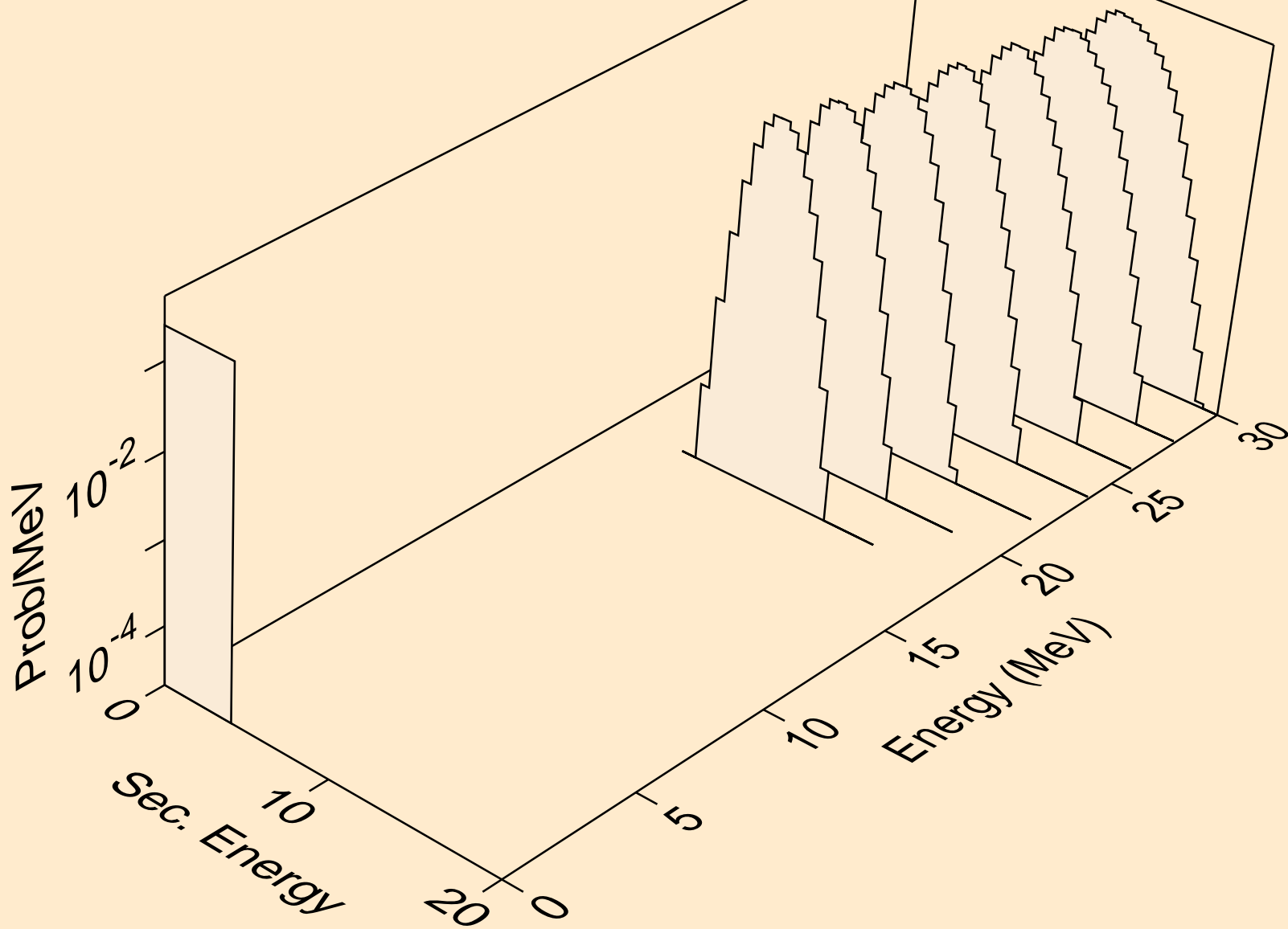
GD138 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,3a)



GD138 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,pa)



GD138 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,d2a)



GD138 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,da)

