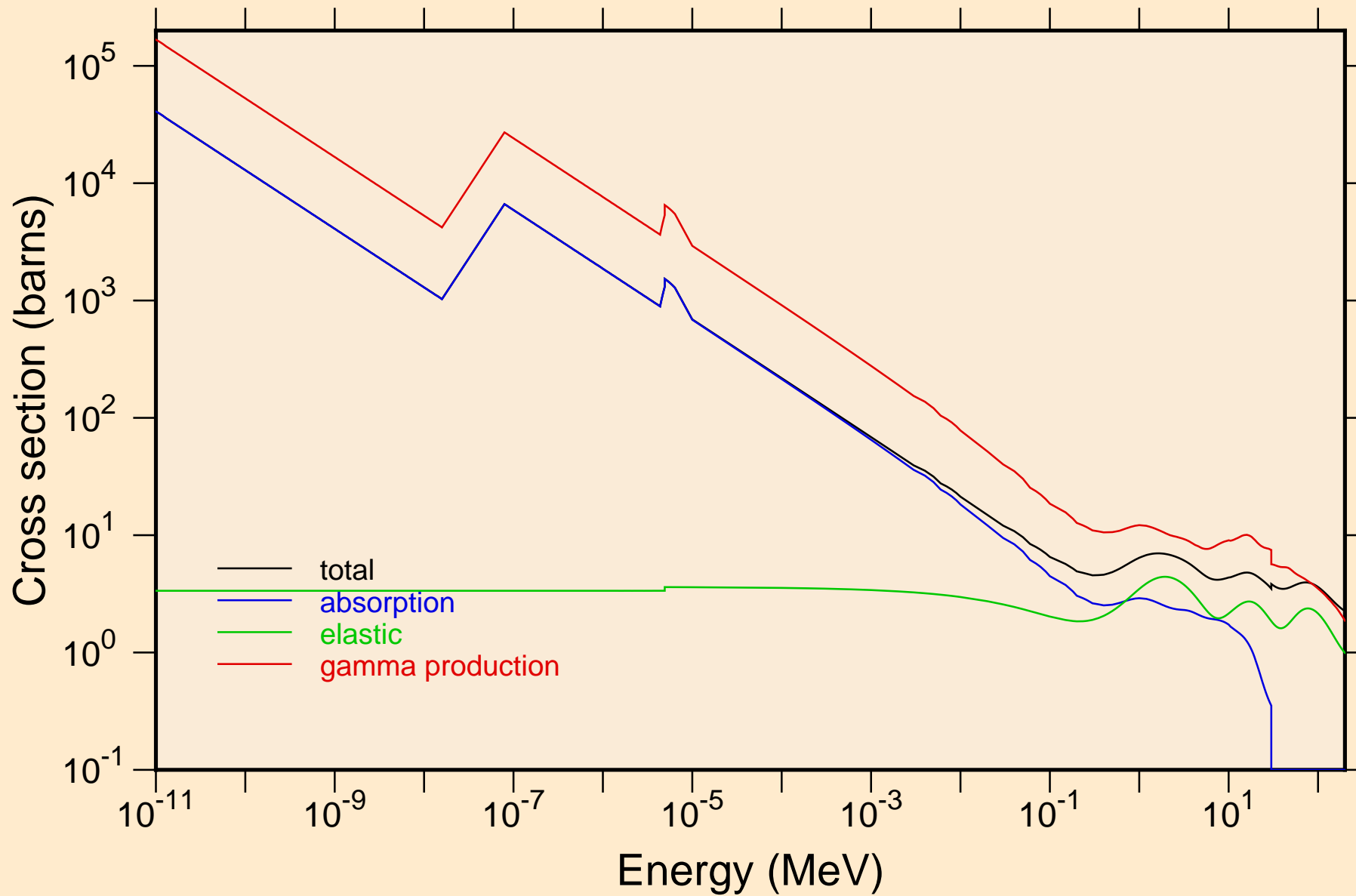


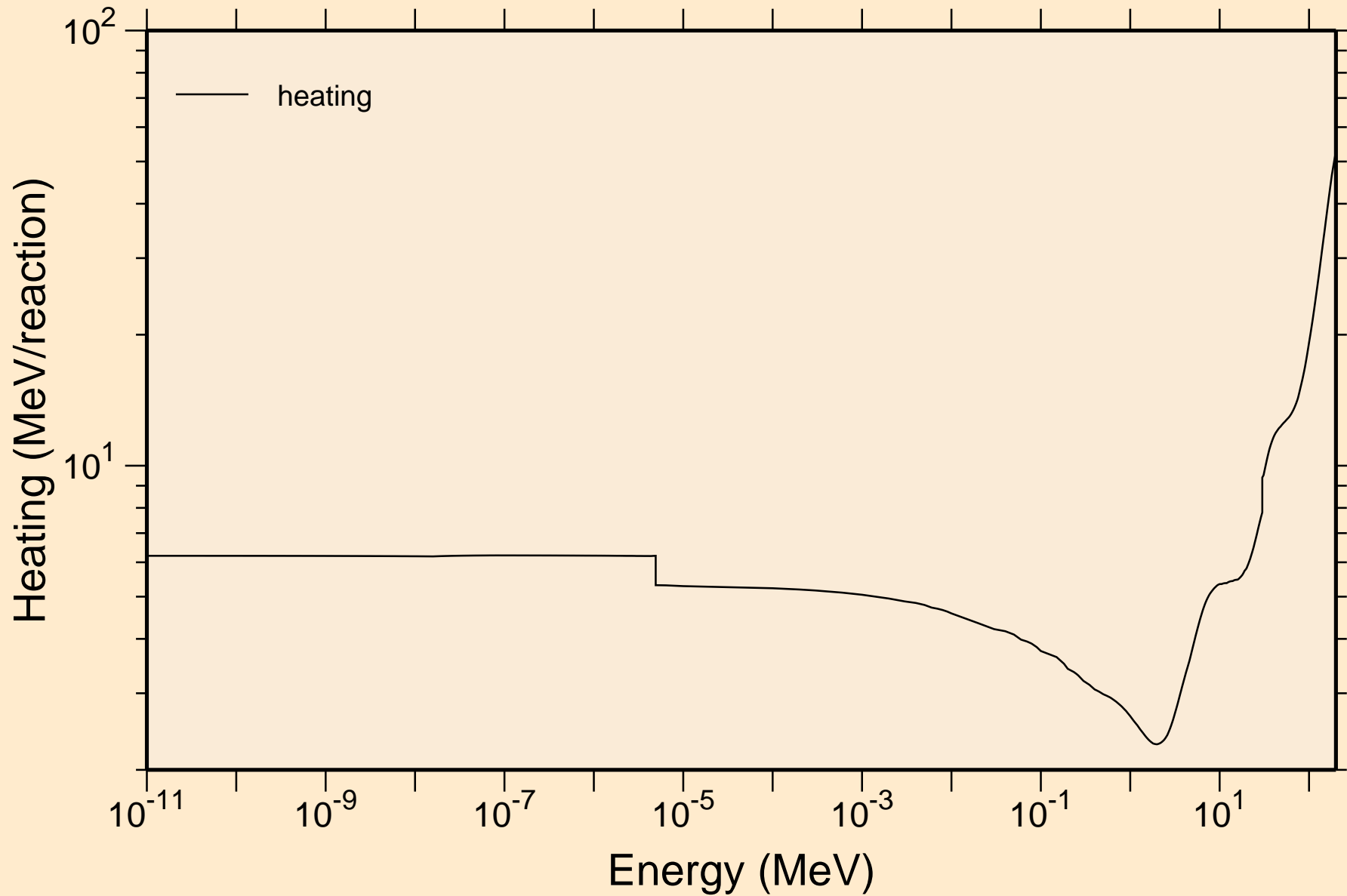
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## Principal cross sections



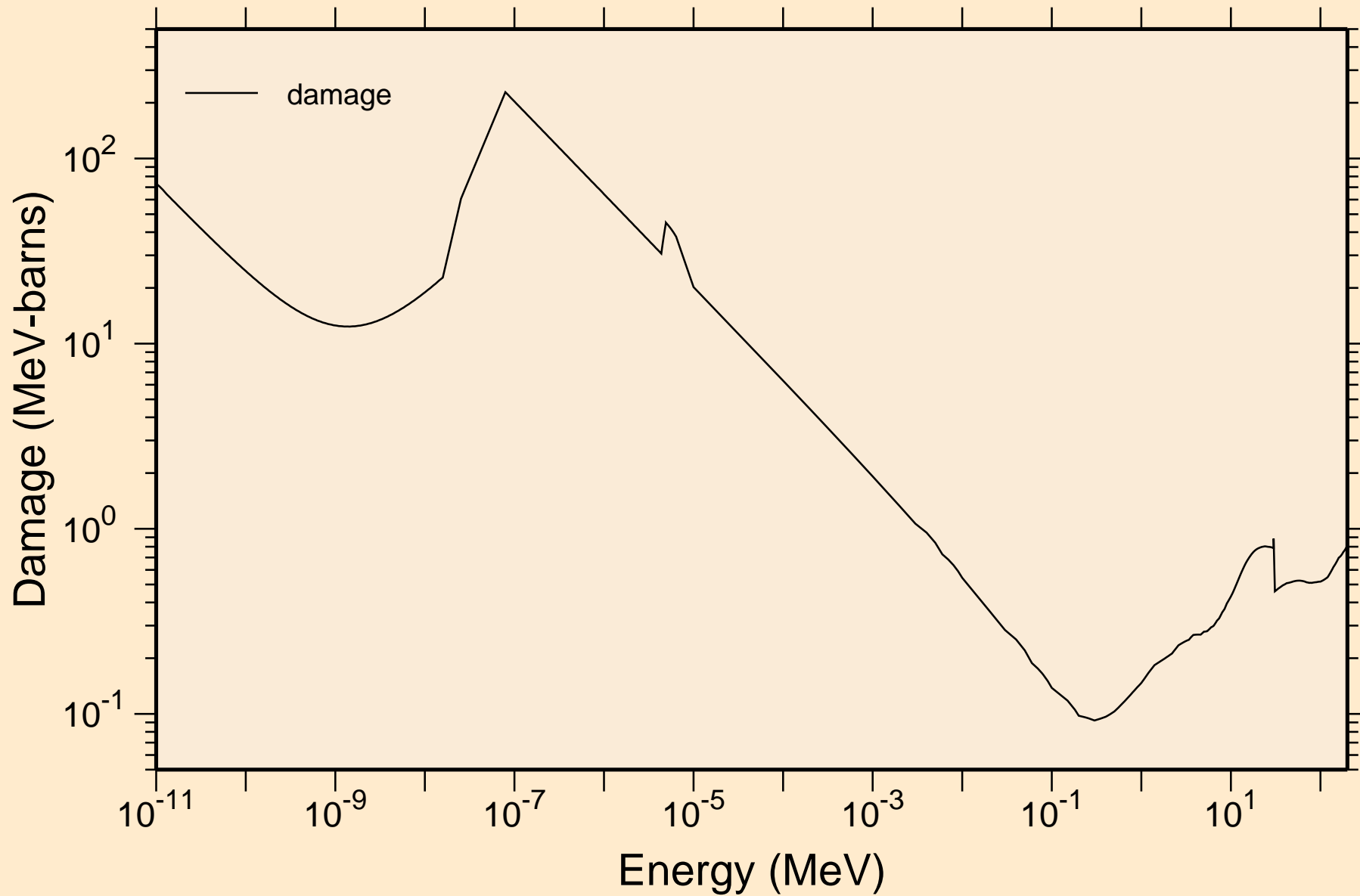
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## Heating



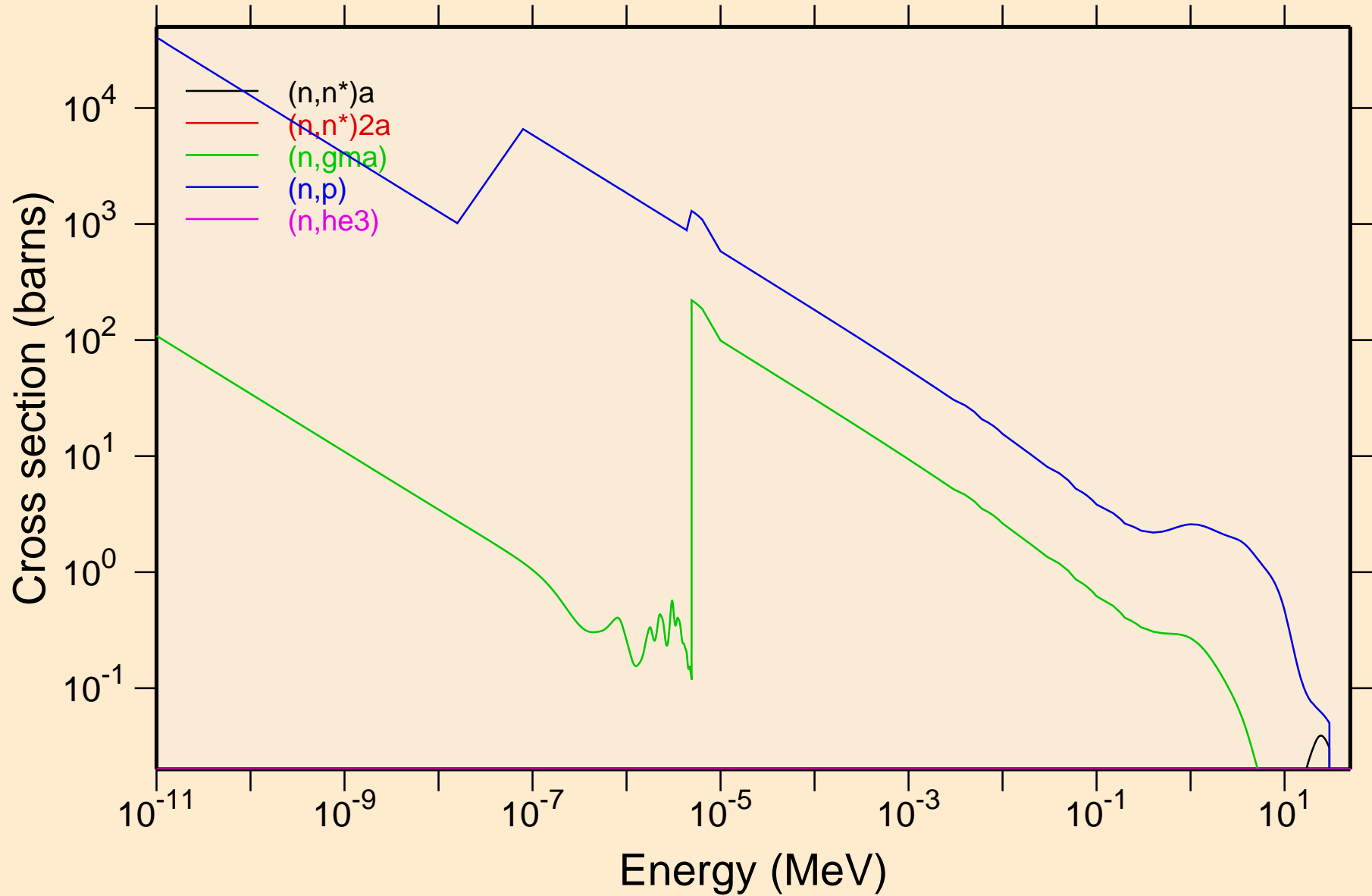
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## Damage



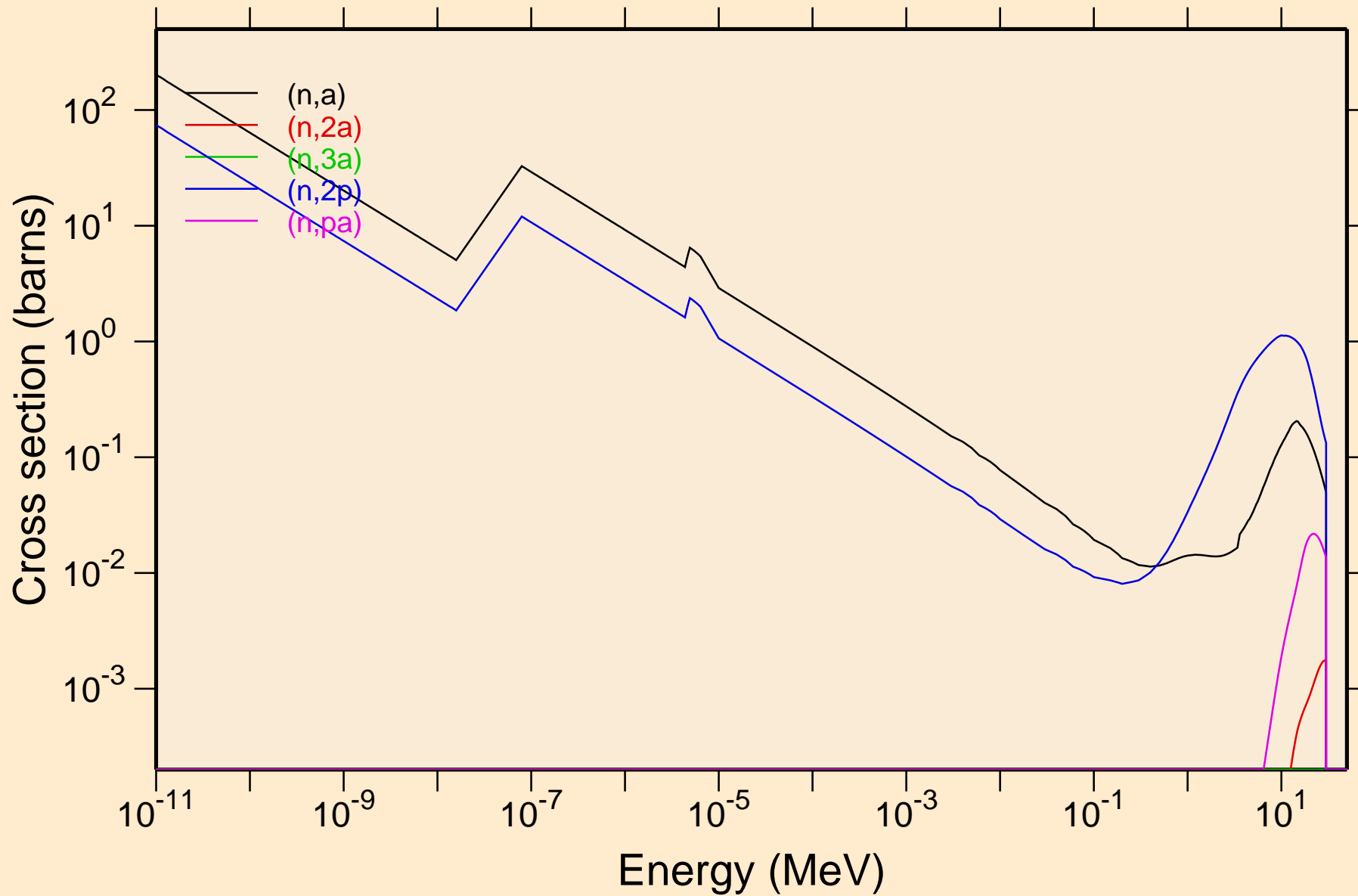
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## Non-threshold reactions



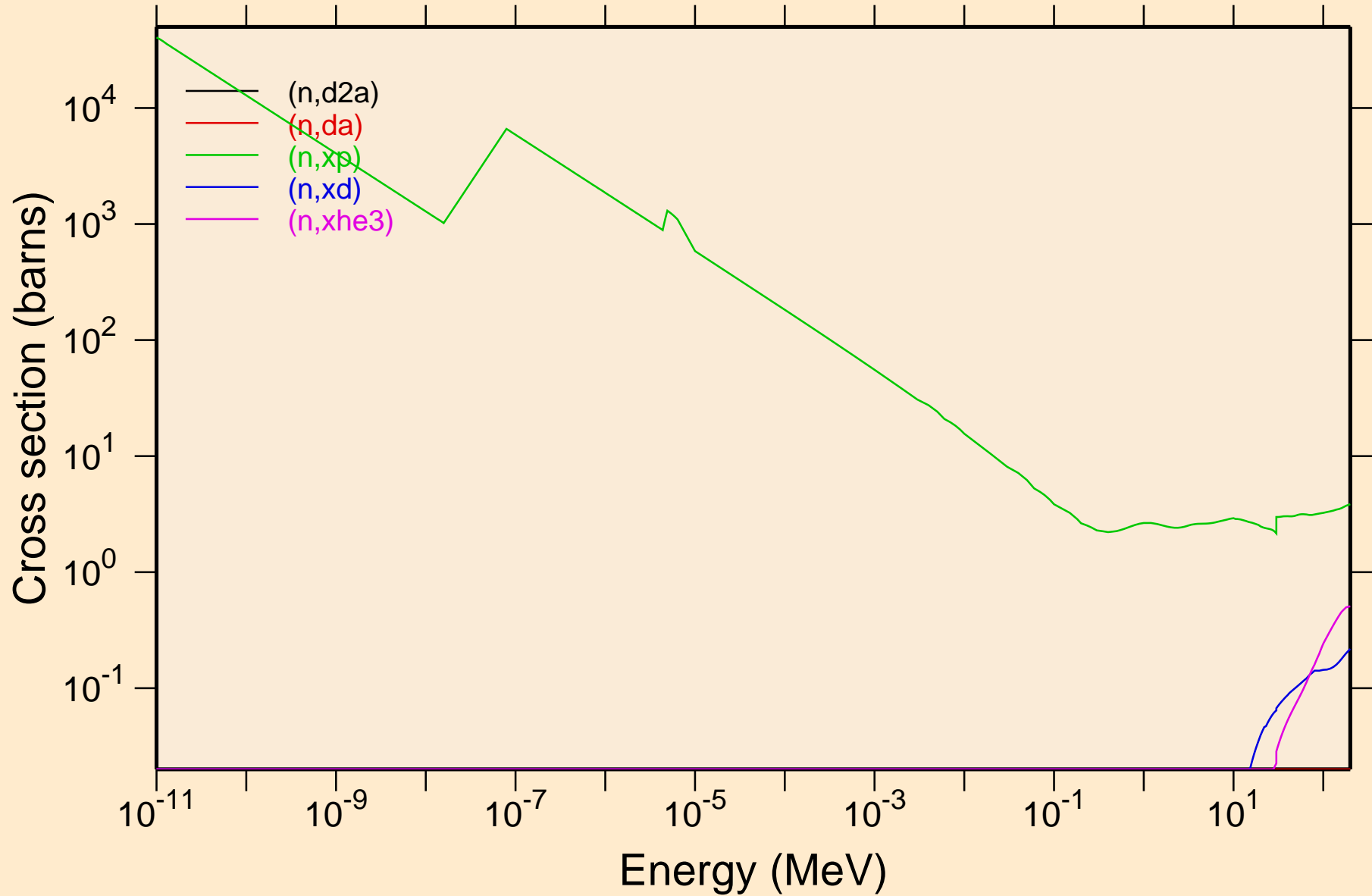
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## Non-threshold reactions

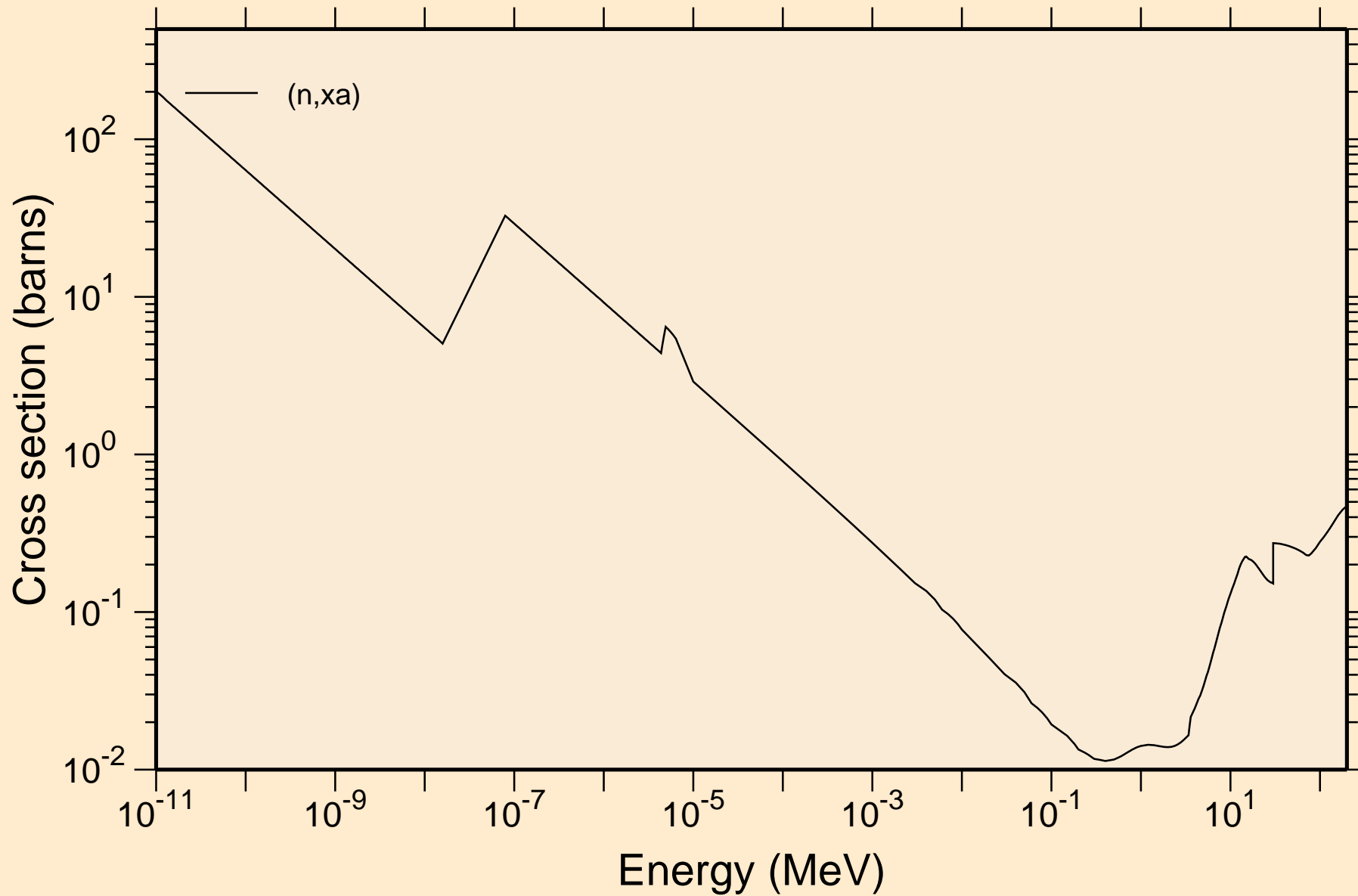


# GD139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

## Non-threshold reactions

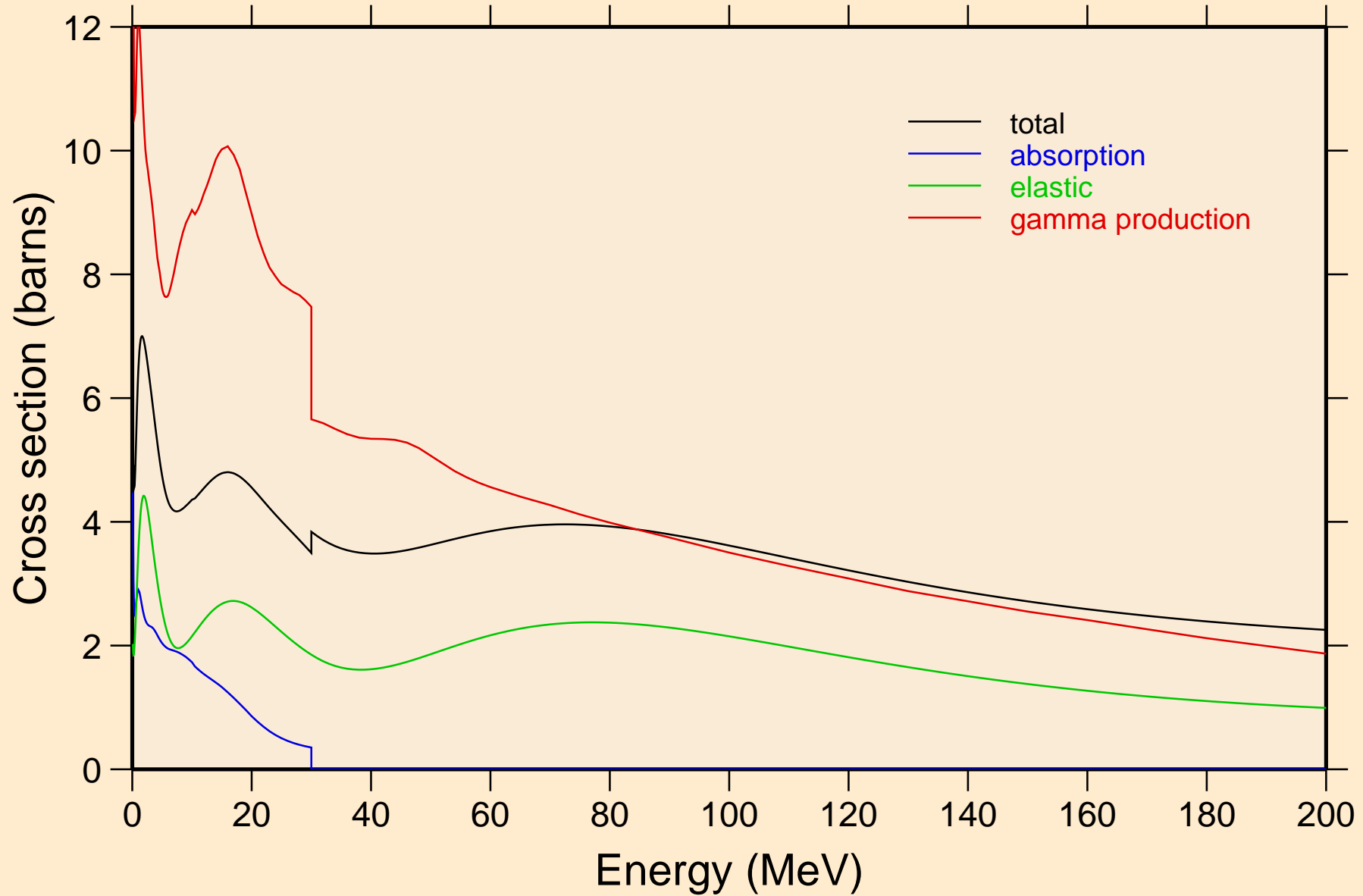


GD139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Non-threshold reactions



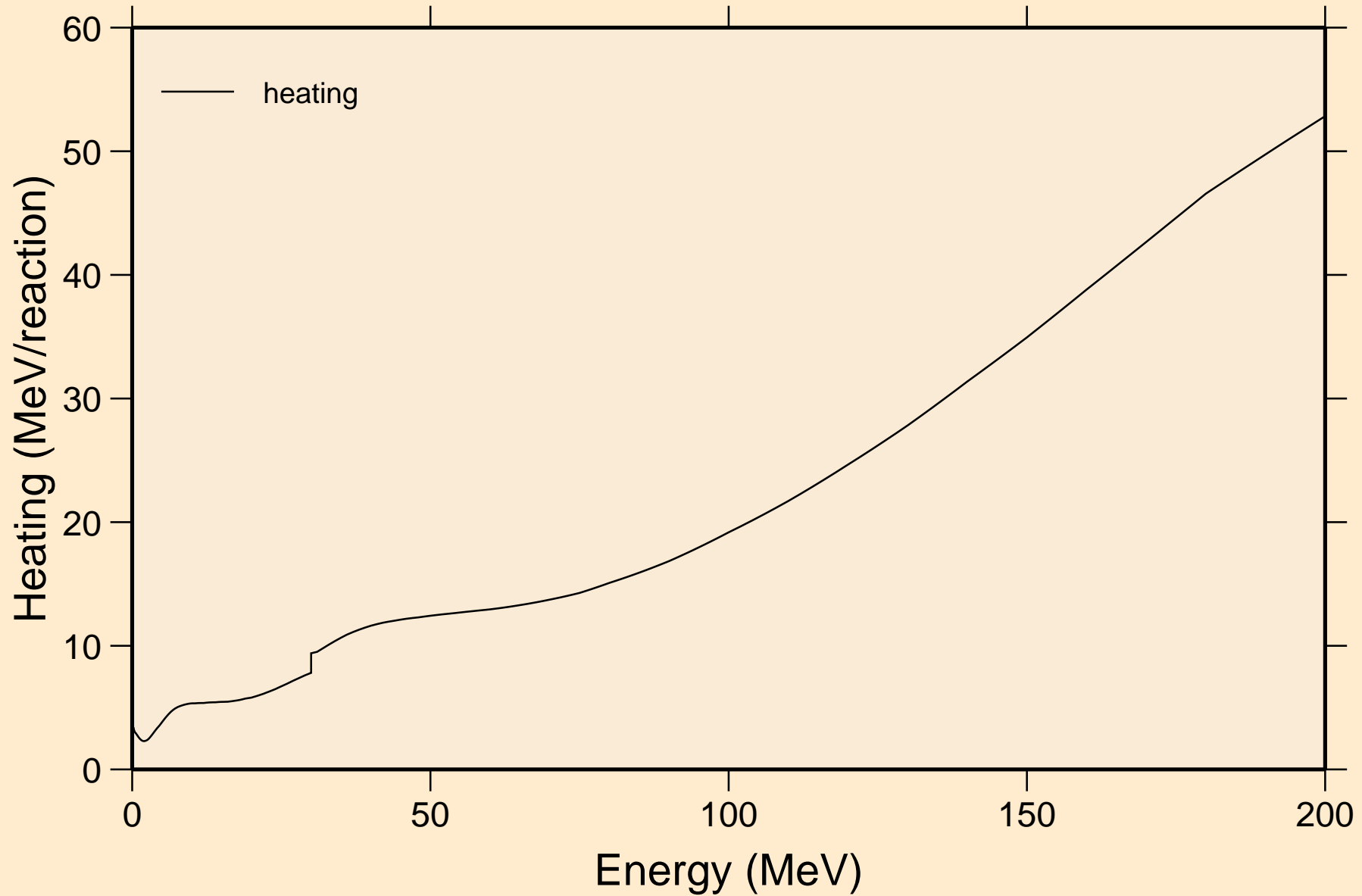
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## Principal cross sections



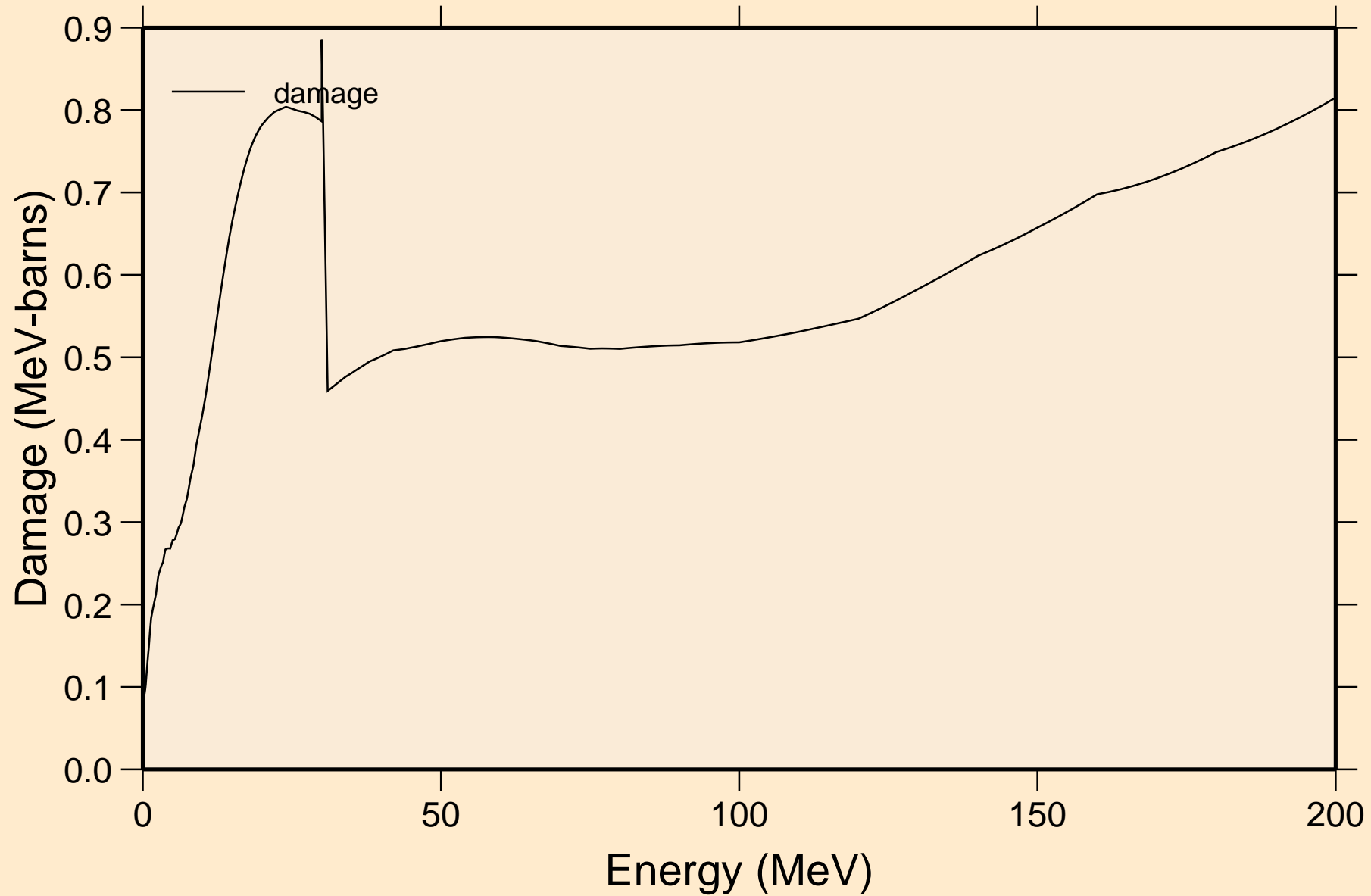
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## Heating



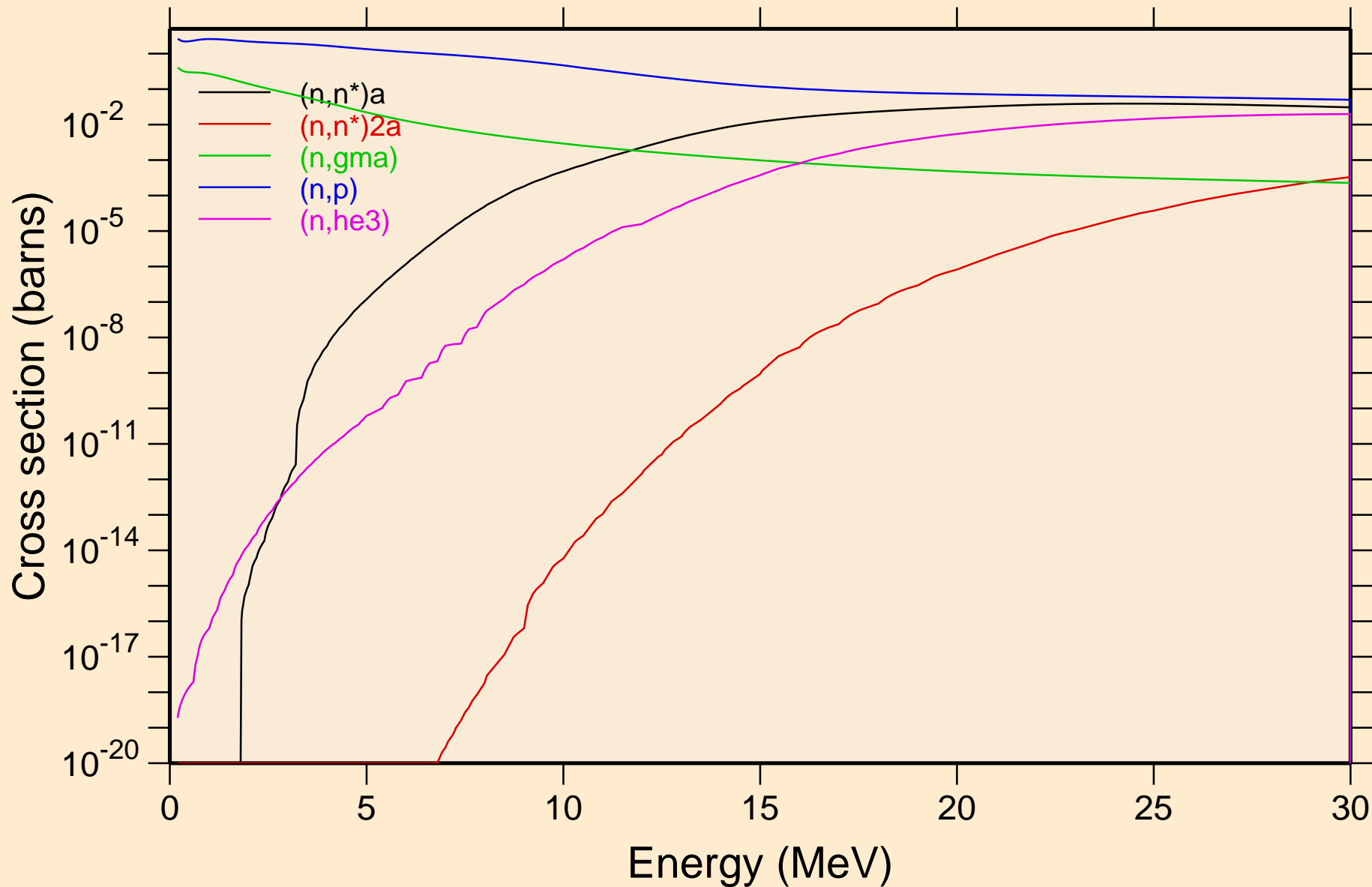
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## Damage



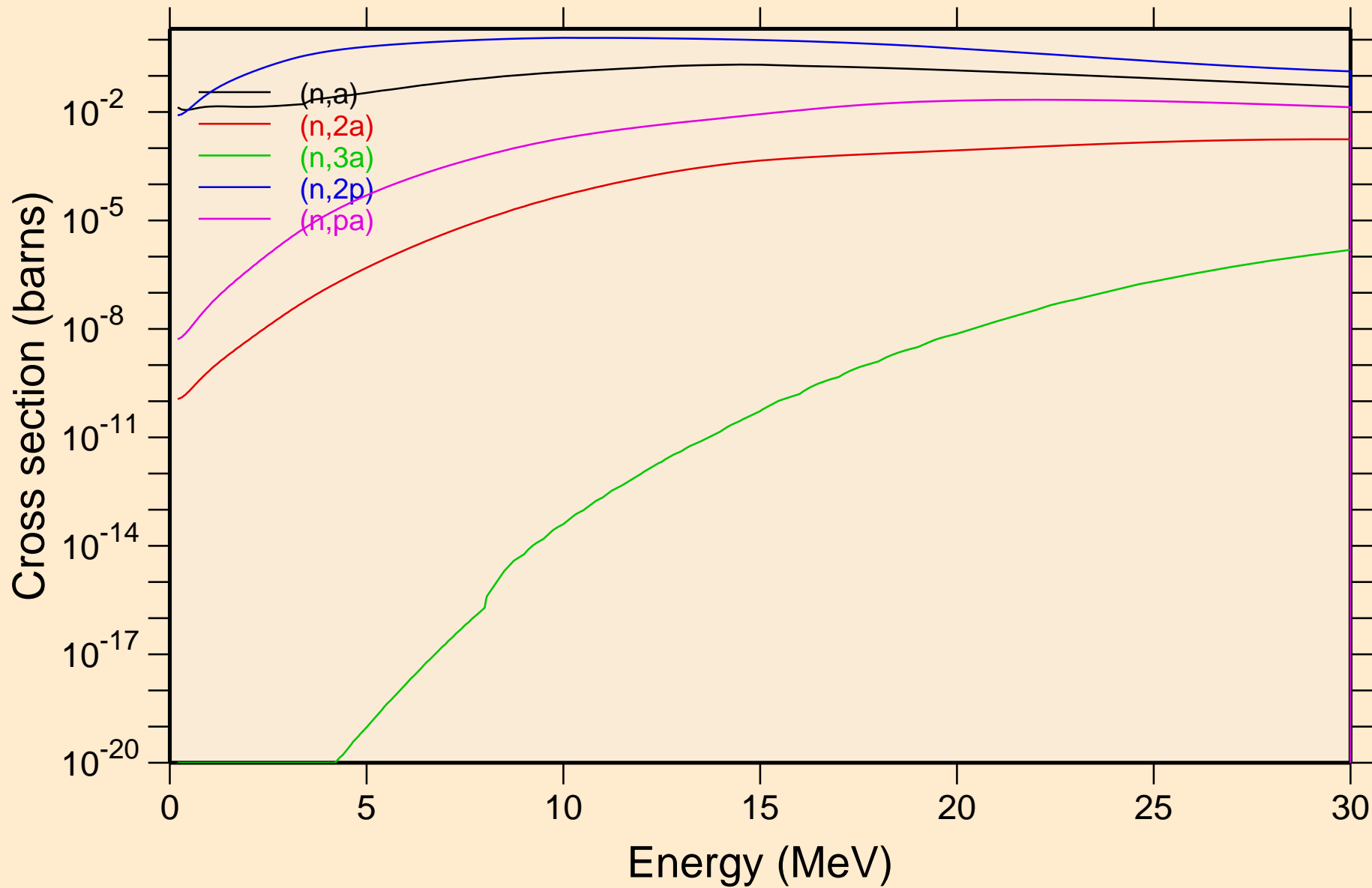
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## Non-threshold reactions



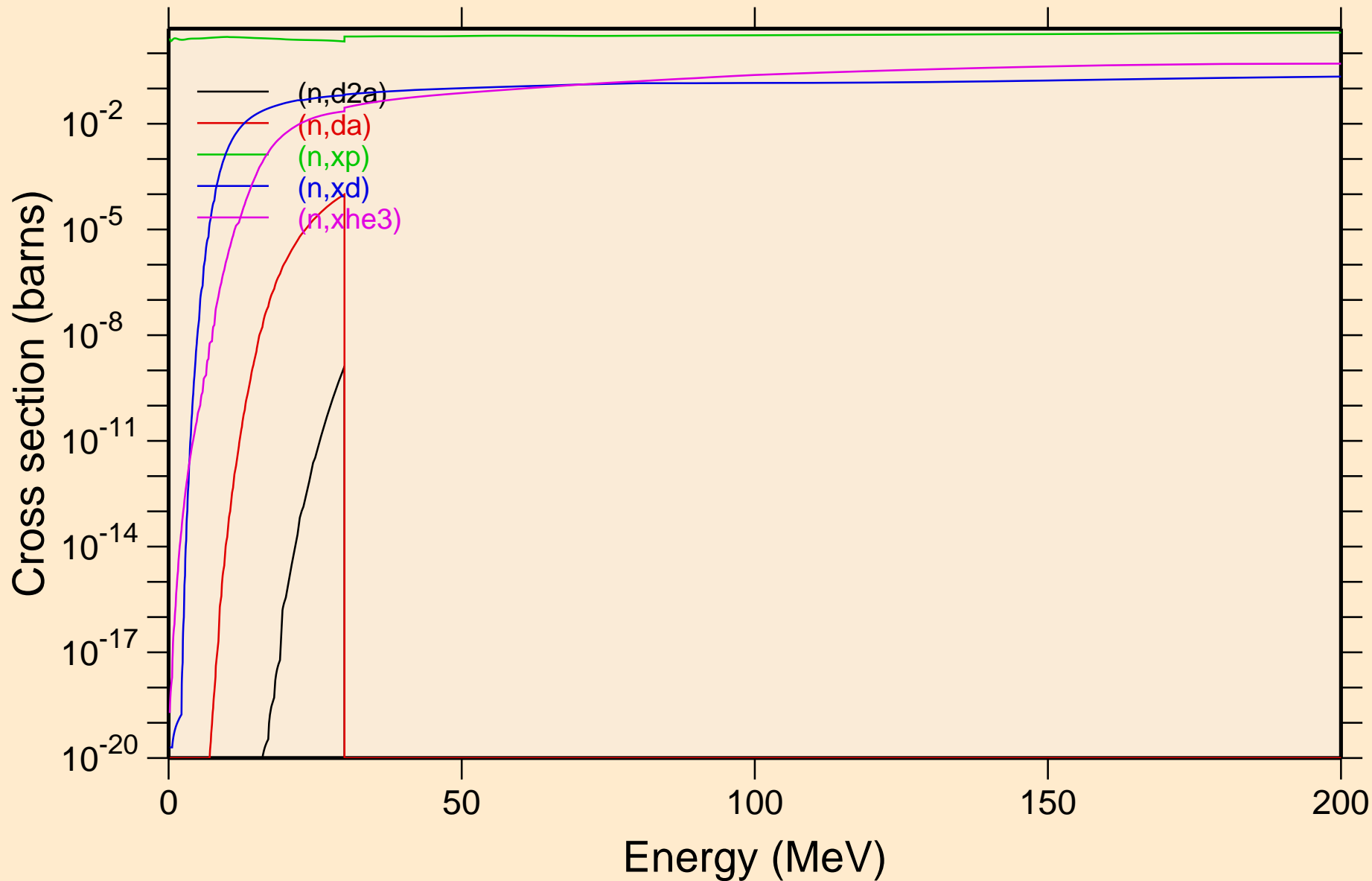
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## Non-threshold reactions

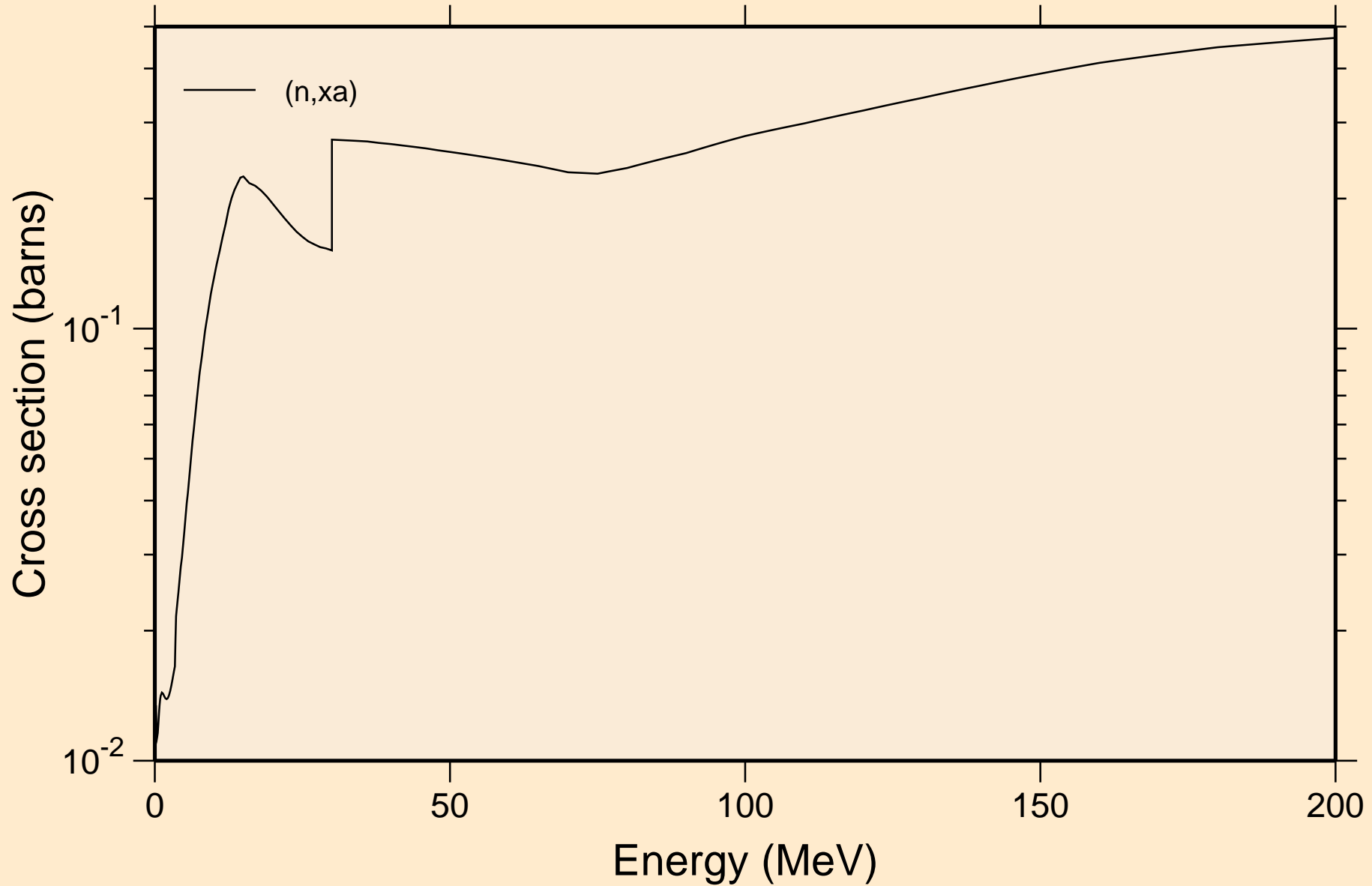


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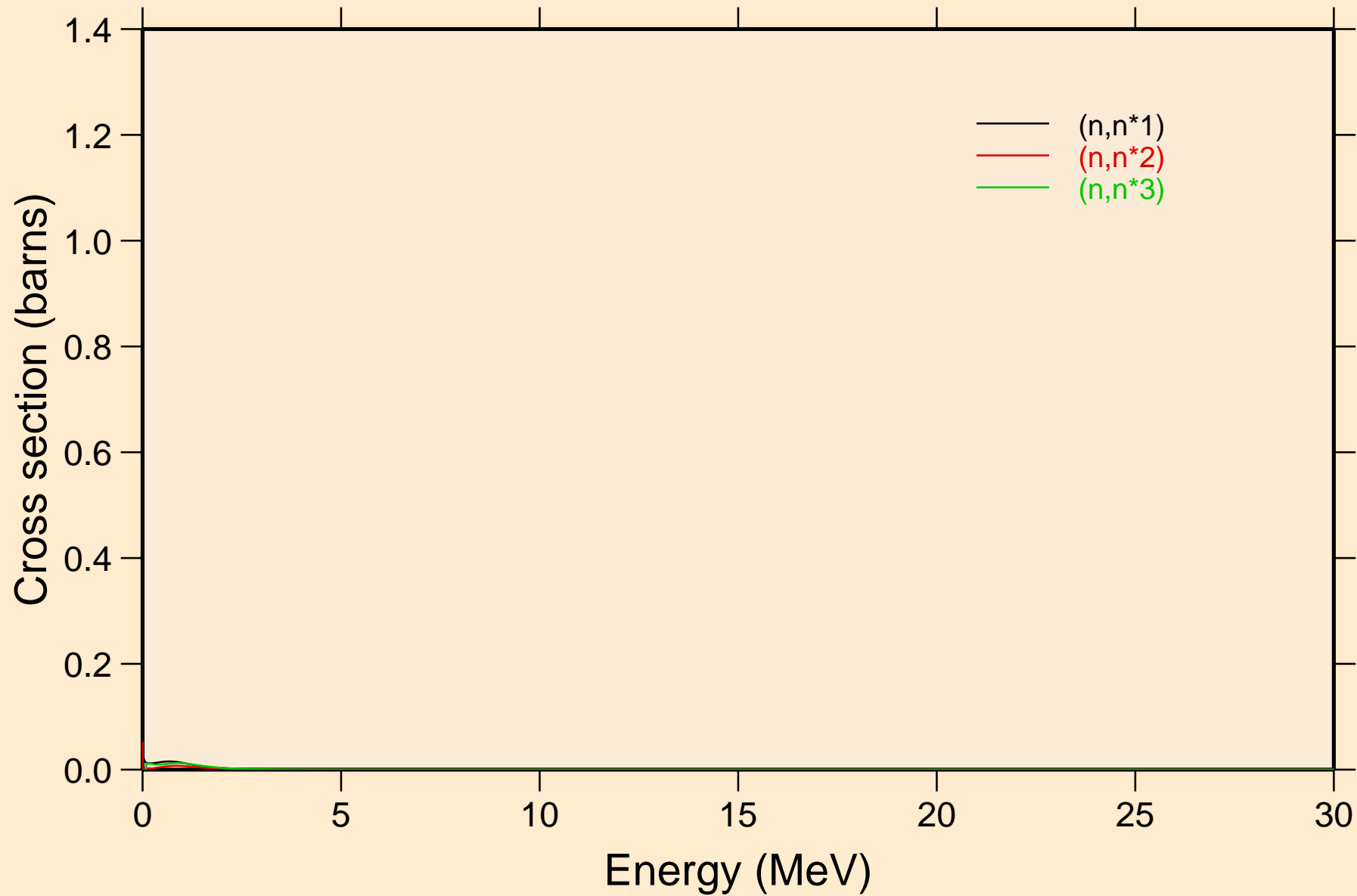
## Non-threshold reactions



GD139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Non-threshold reactions

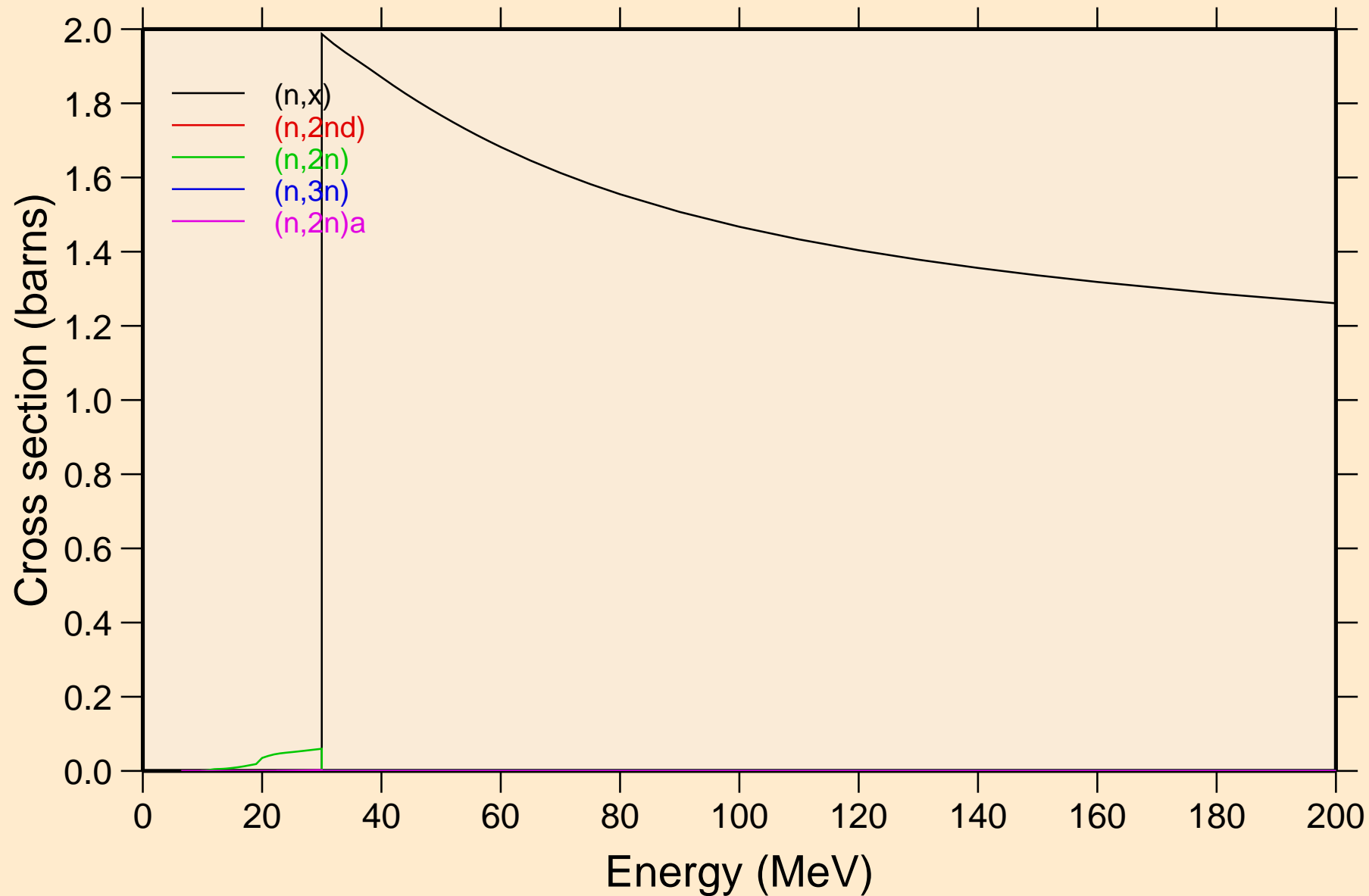


GD139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Inelastic levels



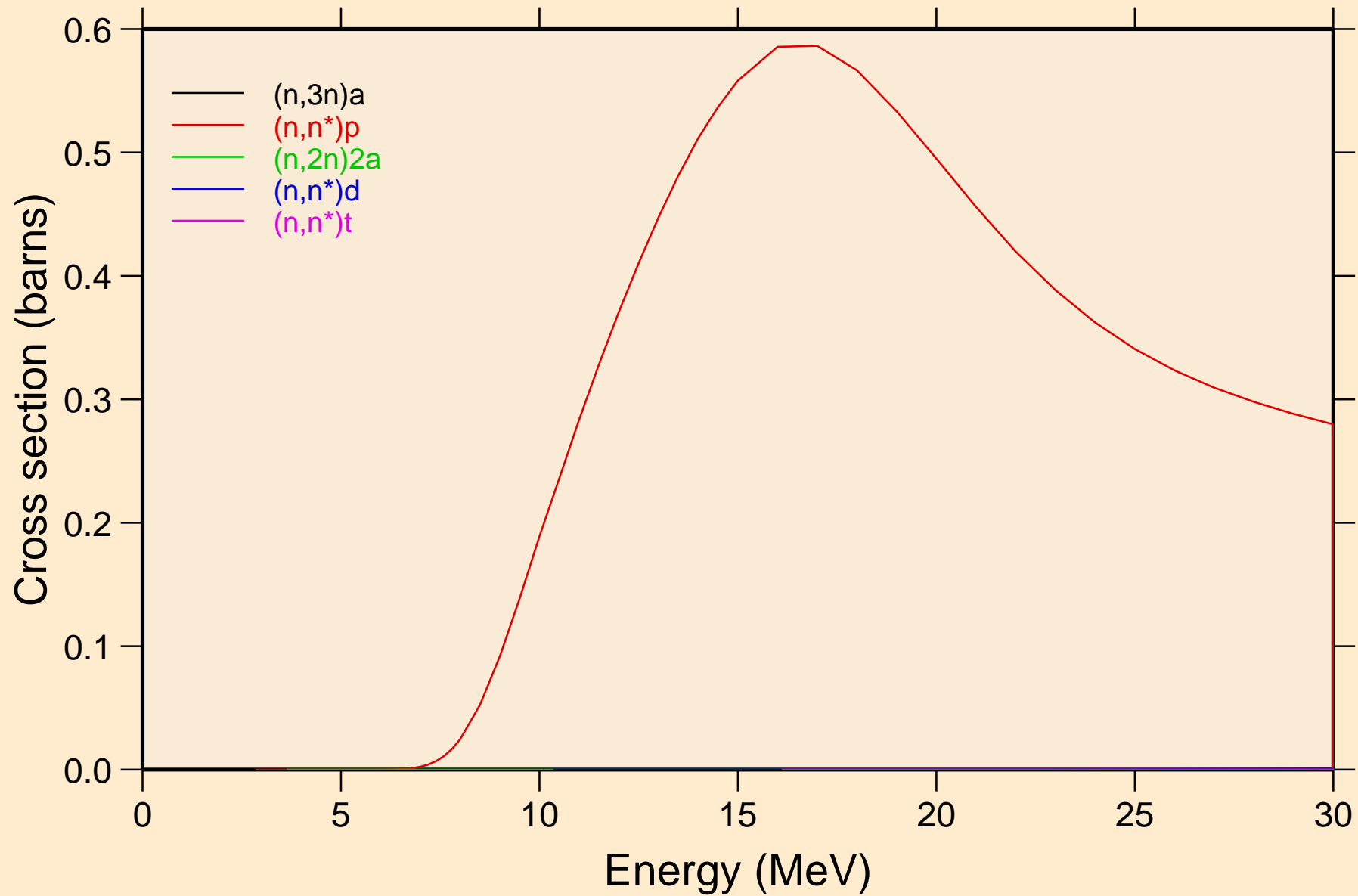
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## Threshold reactions



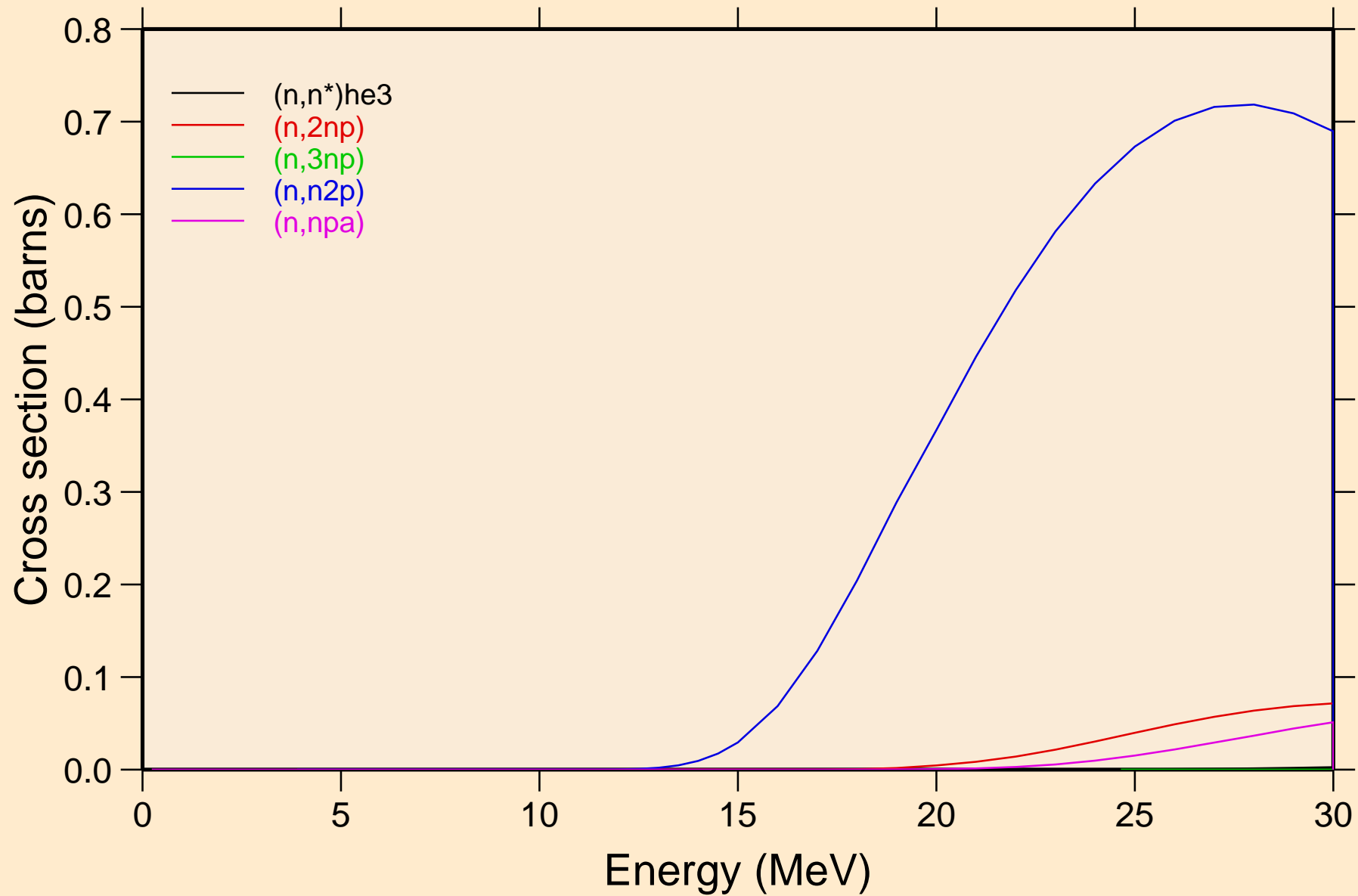
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## Threshold reactions



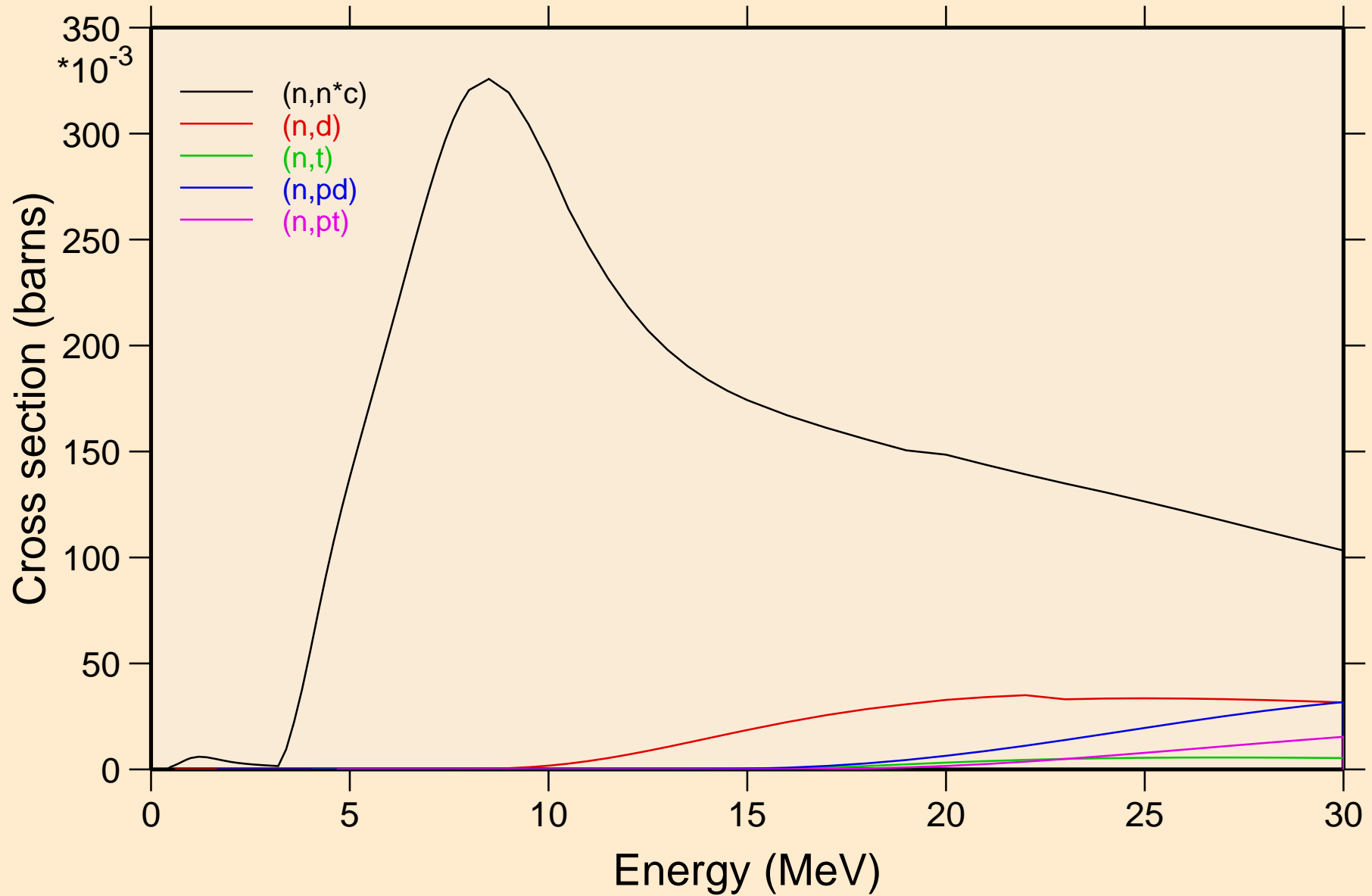
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## Threshold reactions

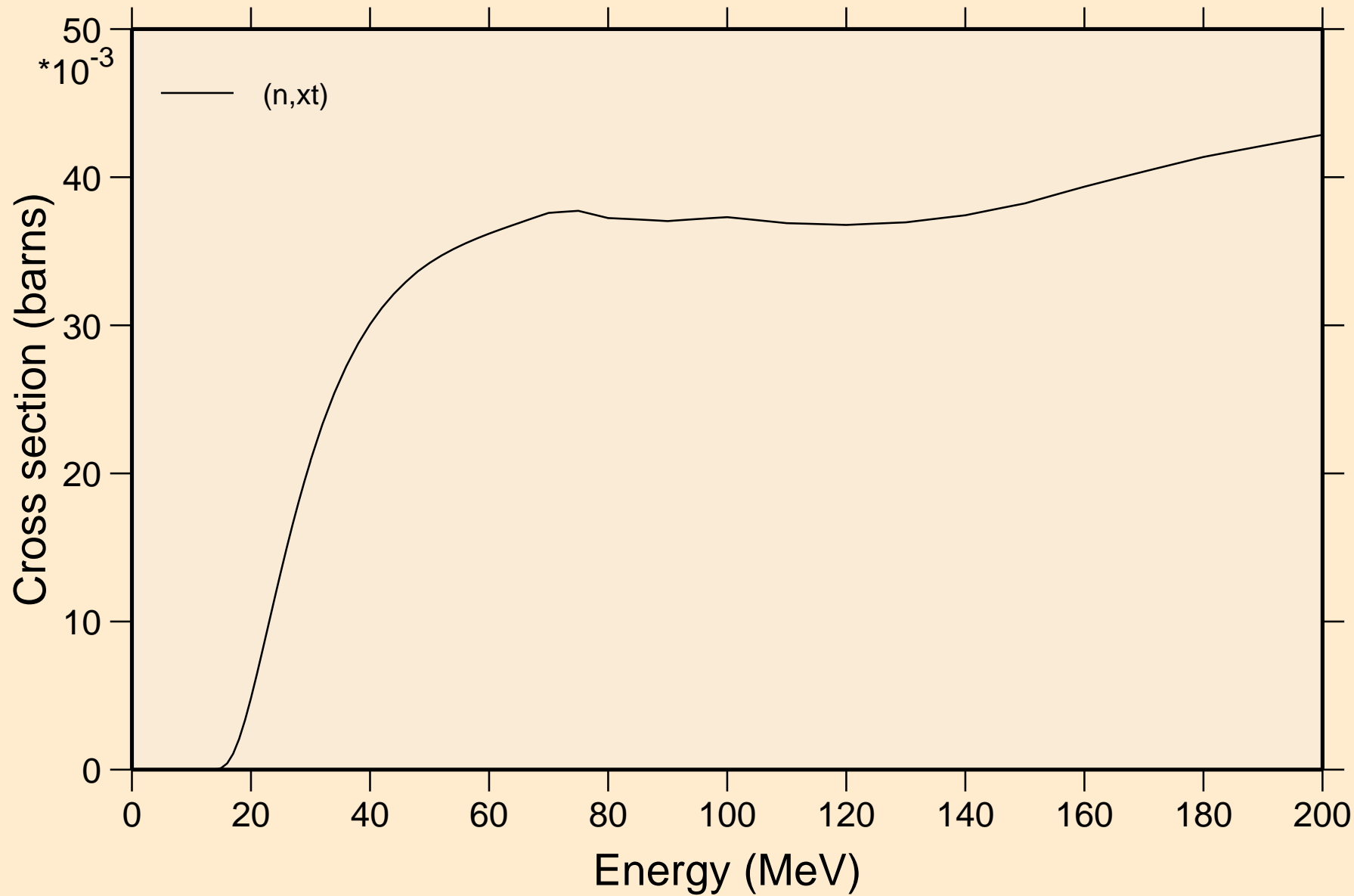


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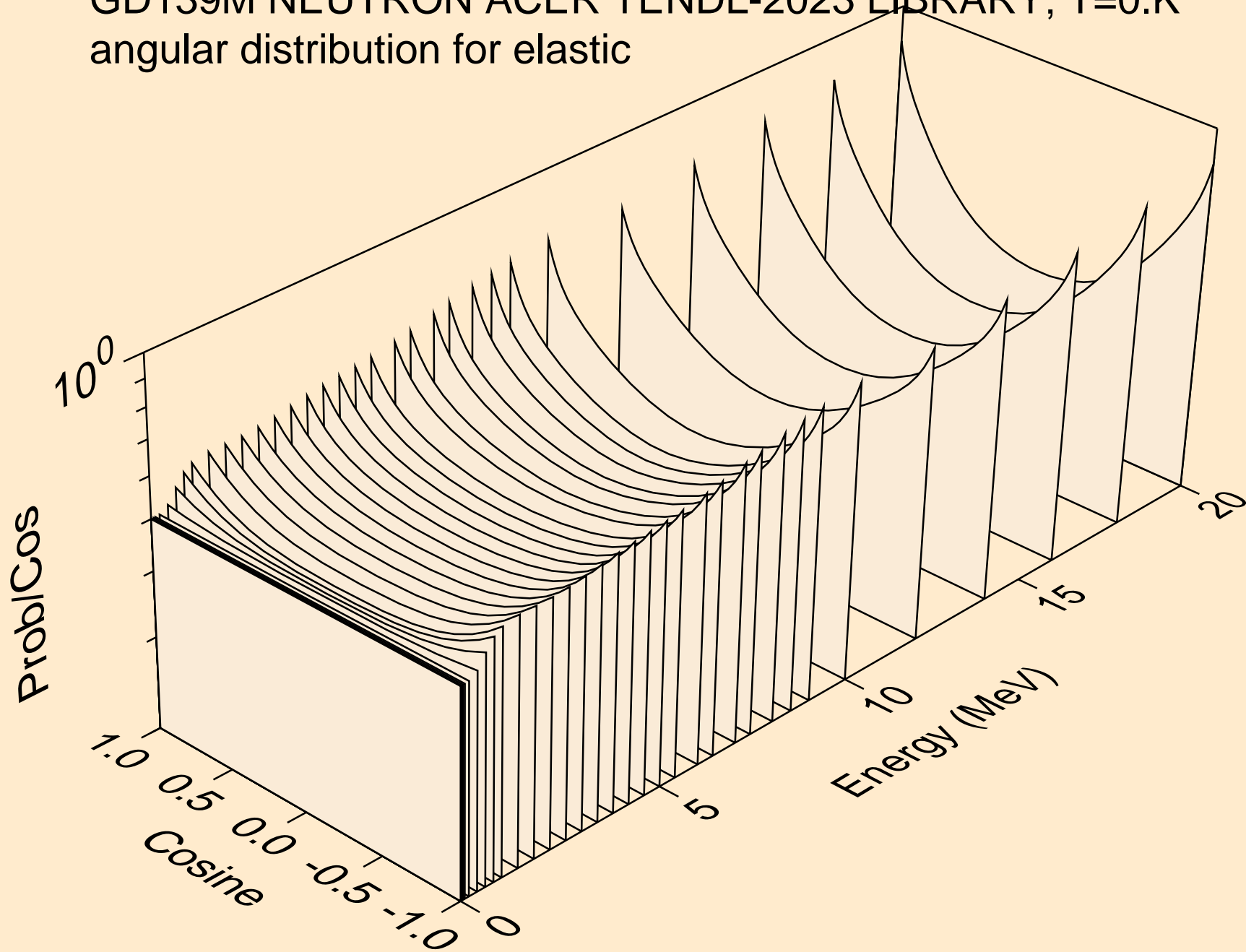
## Threshold reactions



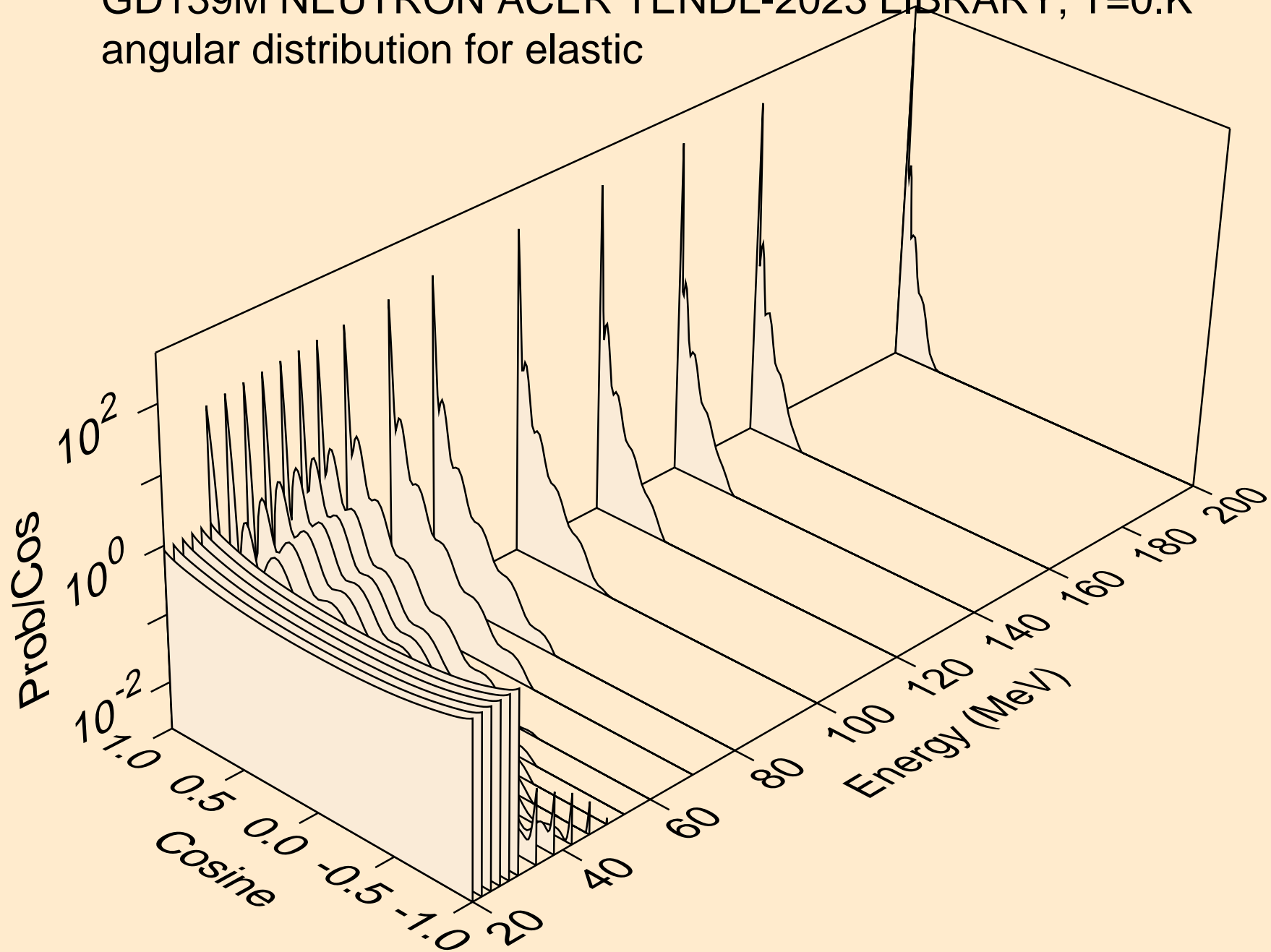
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Threshold reactions



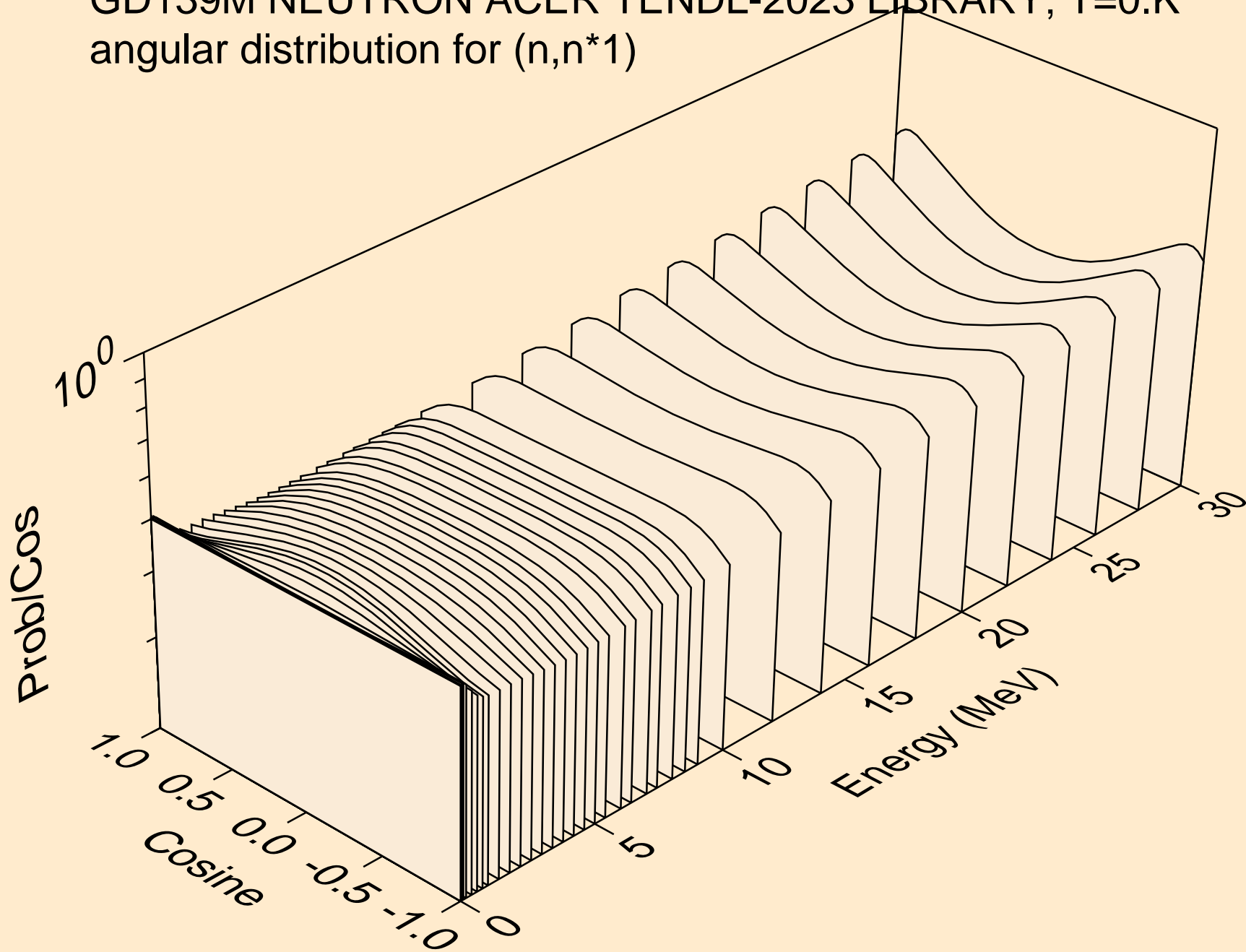
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angular distribution for elastic



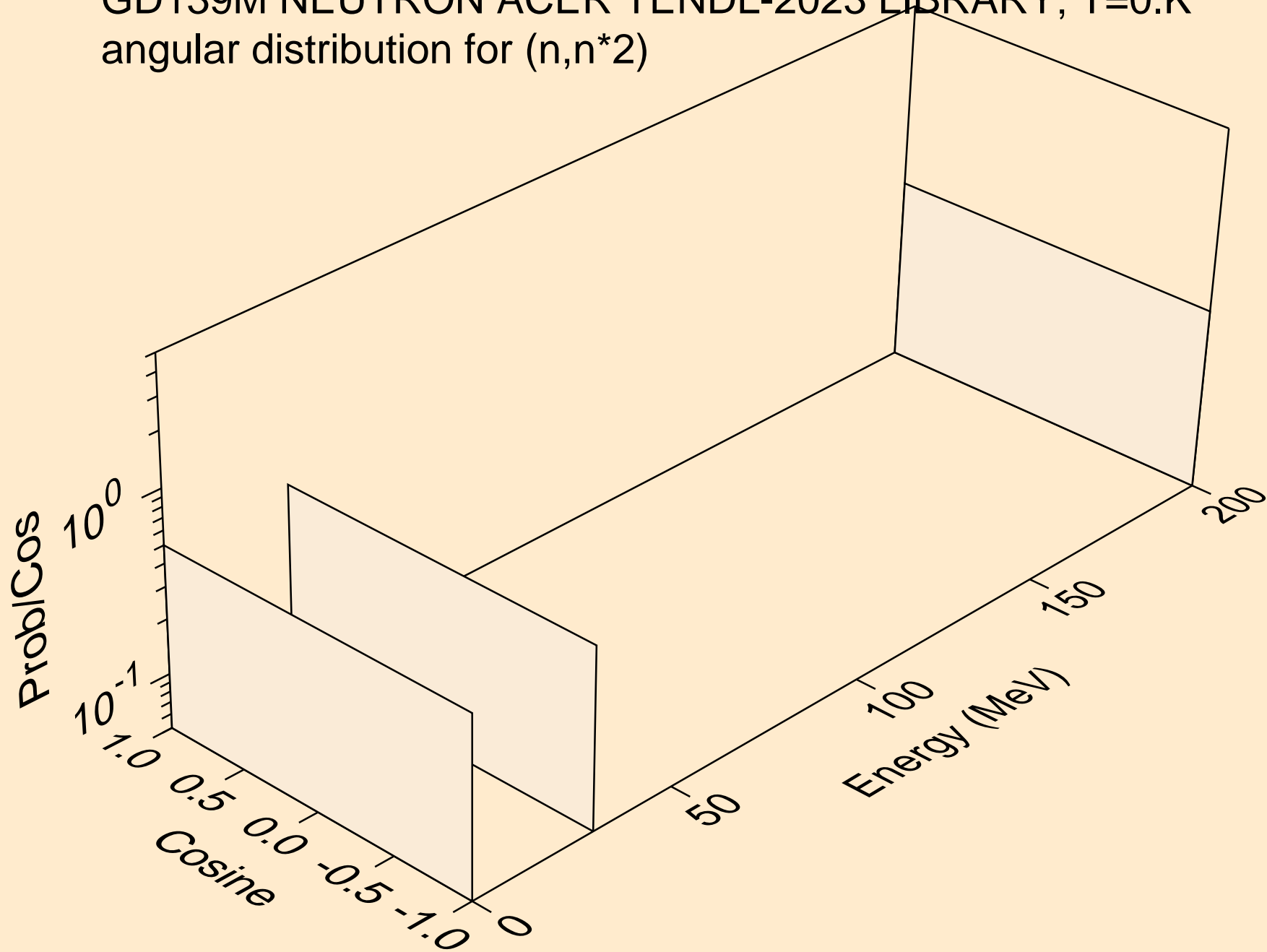
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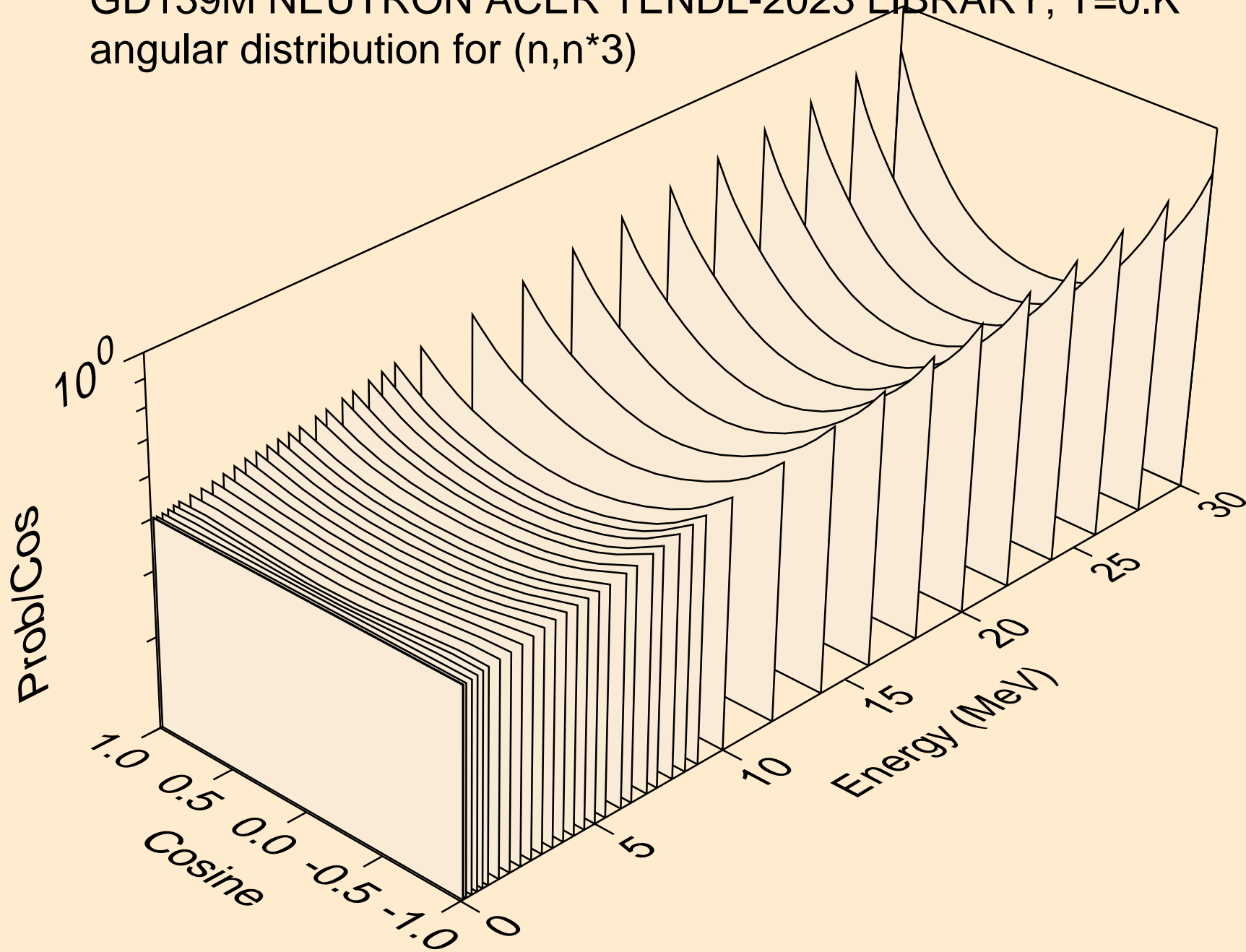
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angular distribution for (n,n\*1)



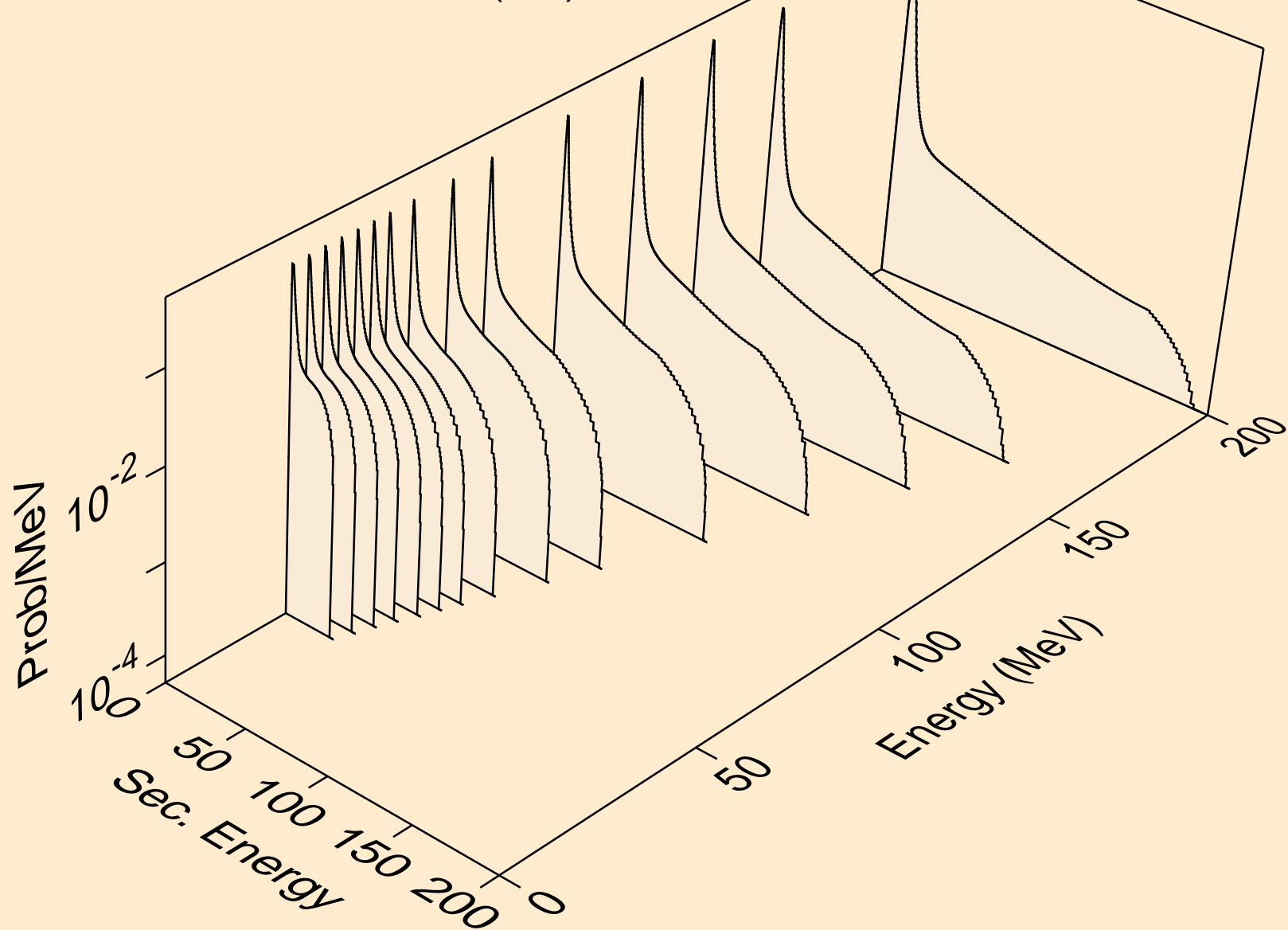
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angular distribution for (n,n\*2)



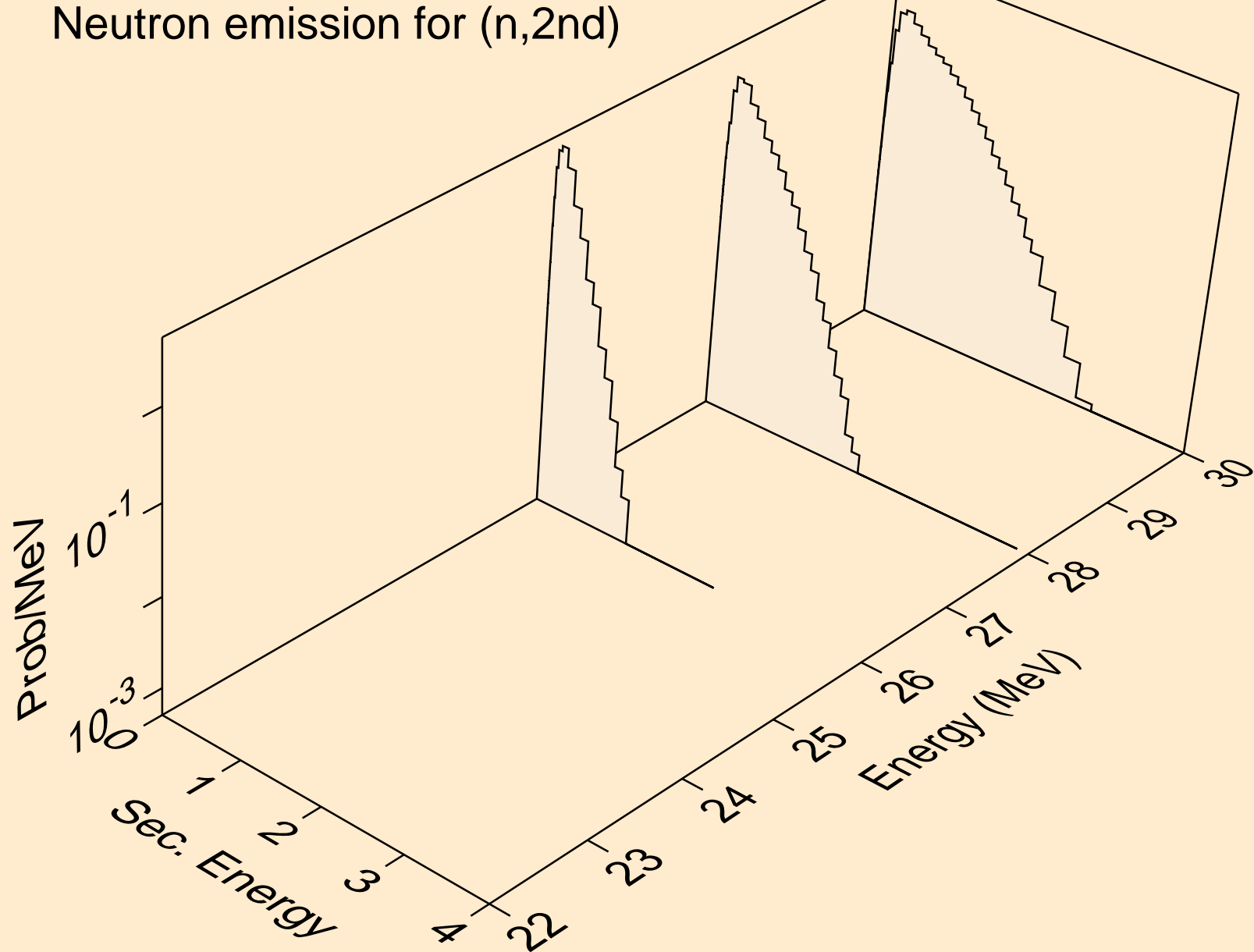
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angular distribution for (n,n\*3)



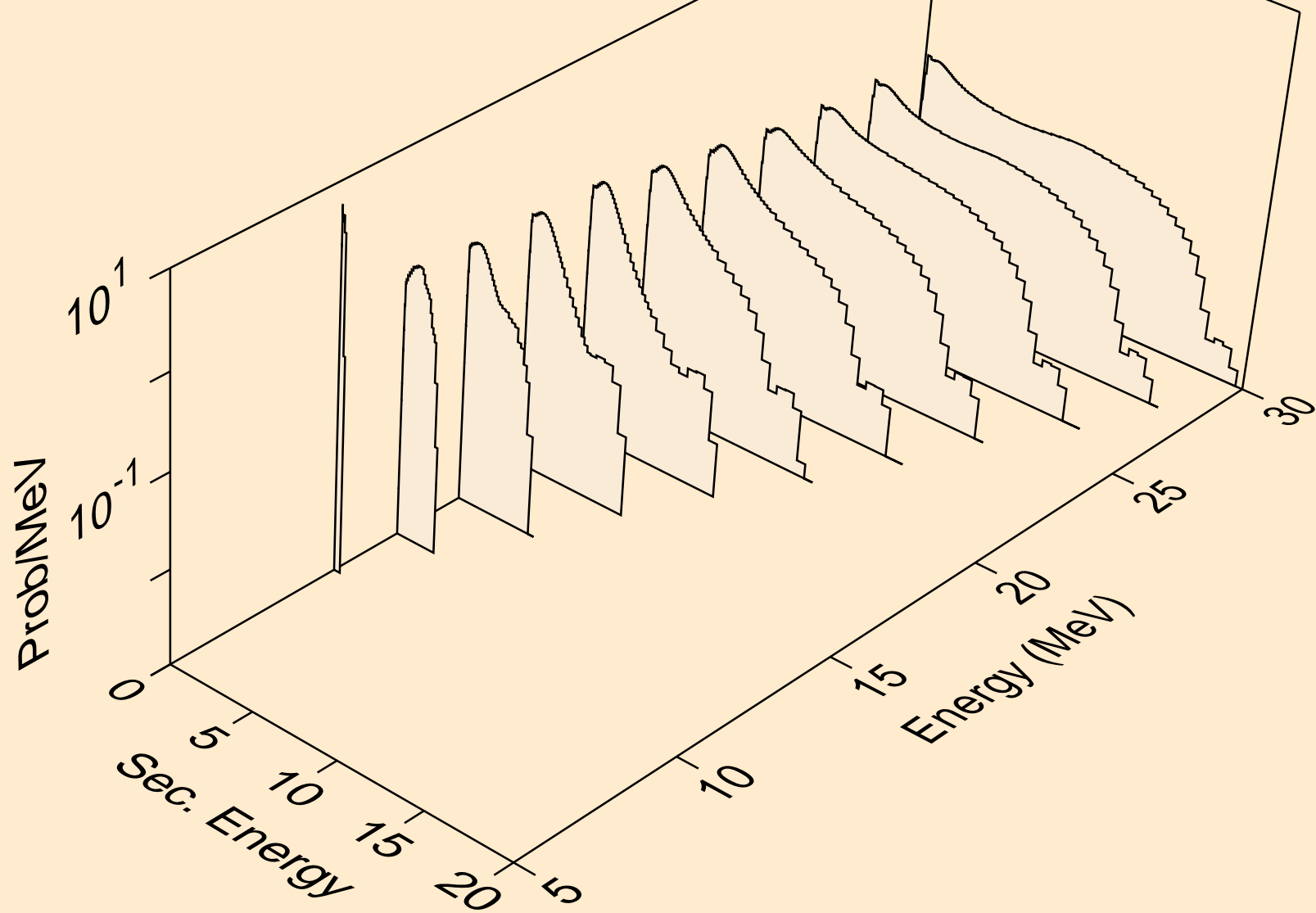
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Neutron emission for (n,x)



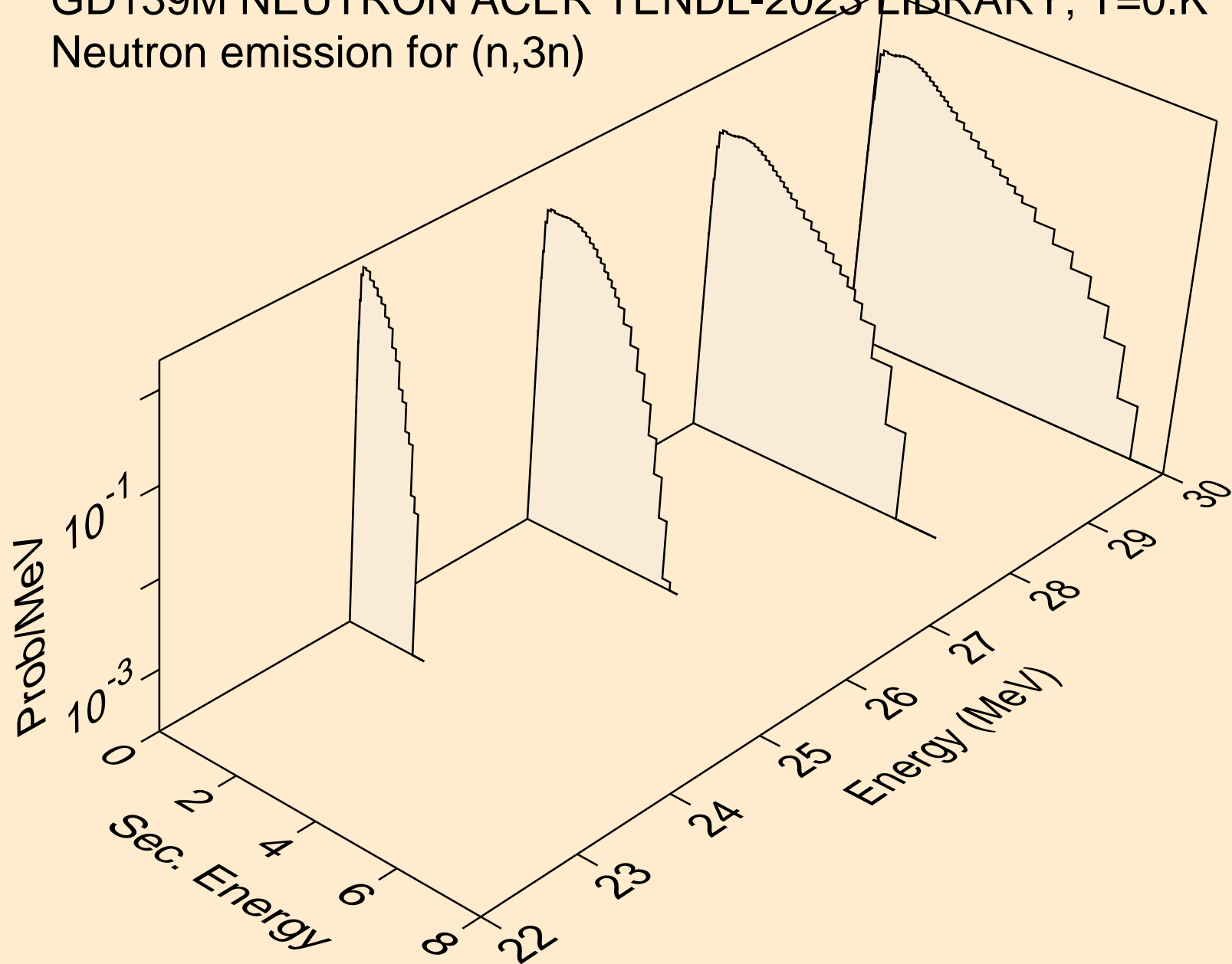
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Neutron emission for (n,2nd)



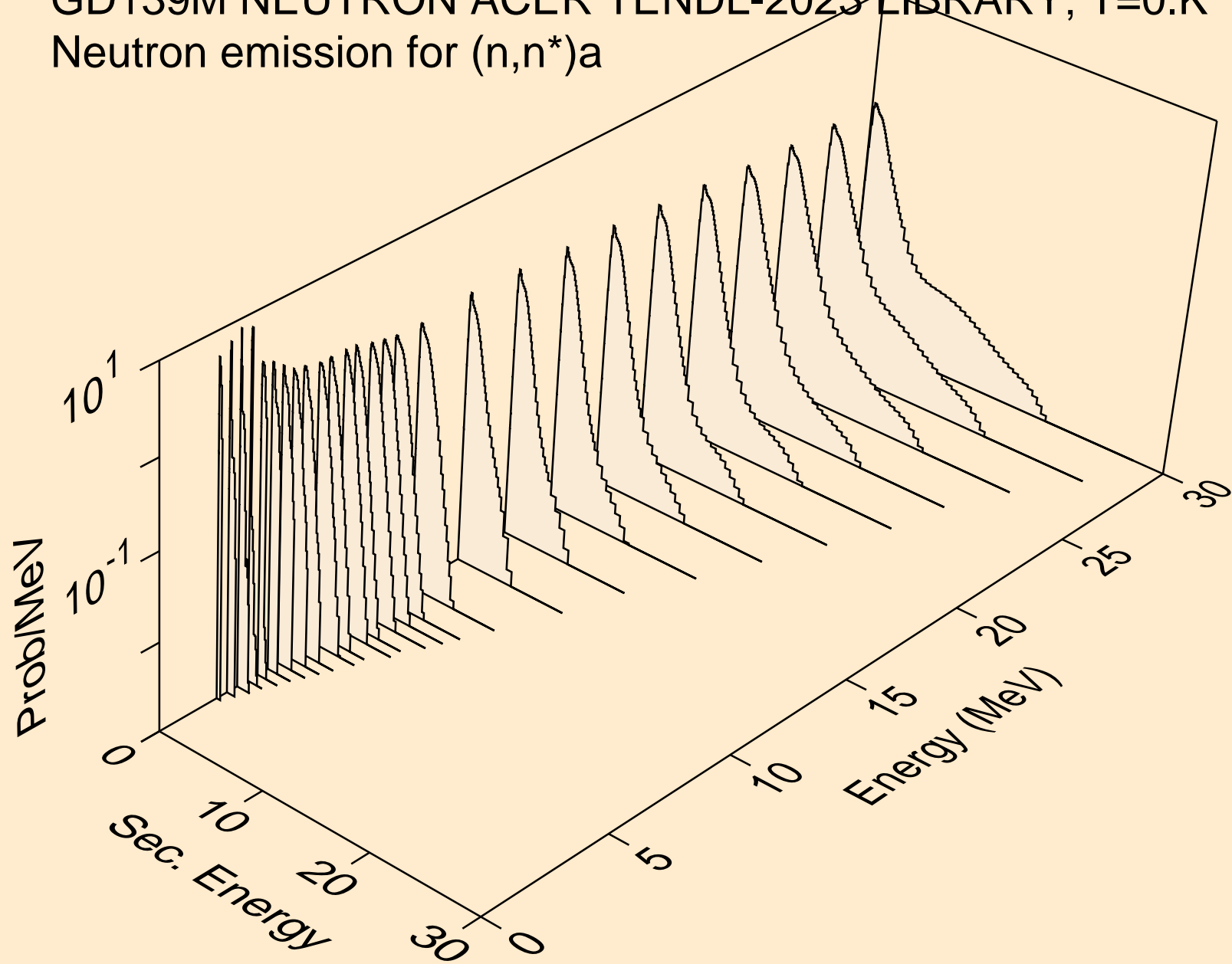
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Neutron emission for (n,2n)



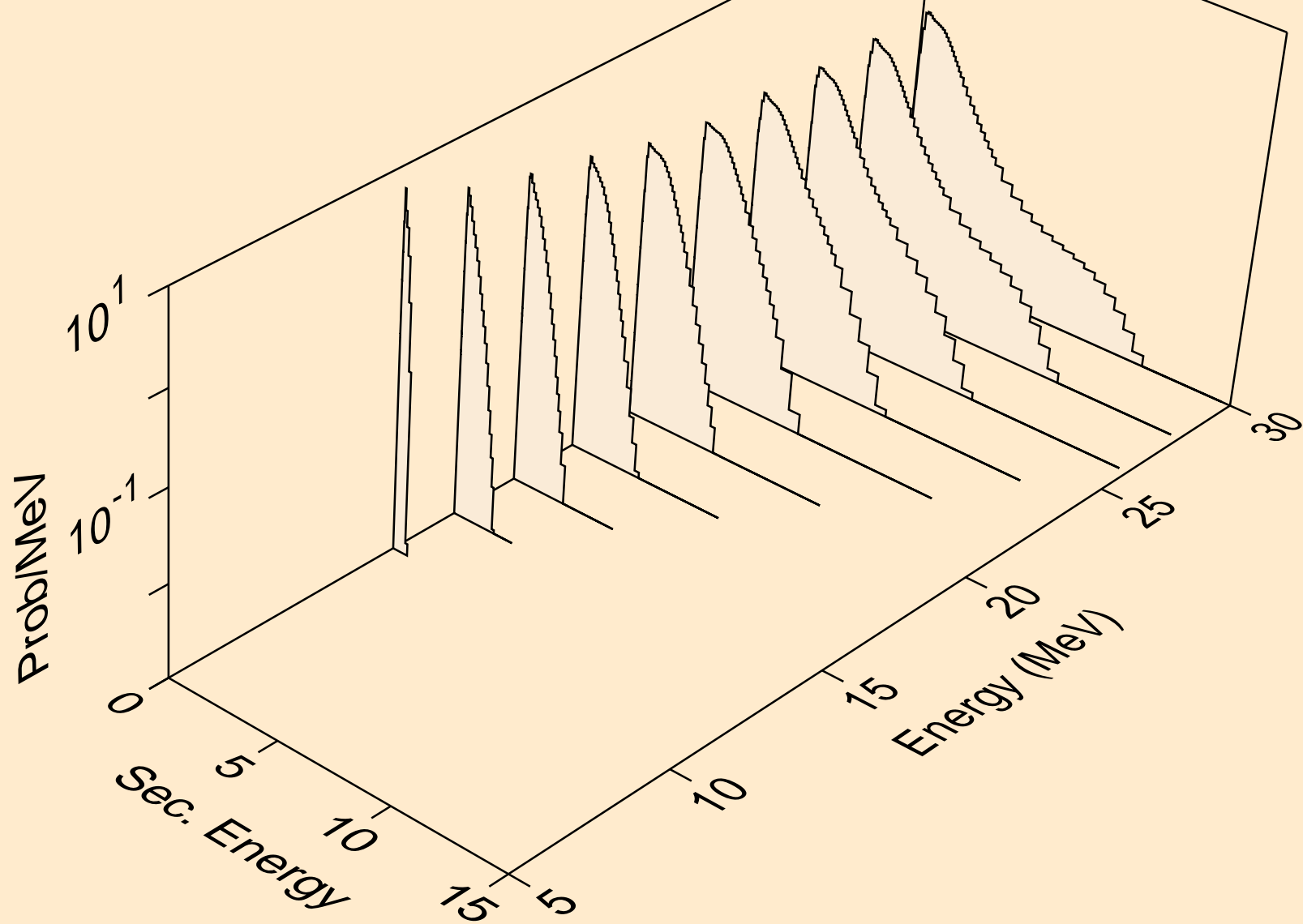
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Neutron emission for (n,3n)



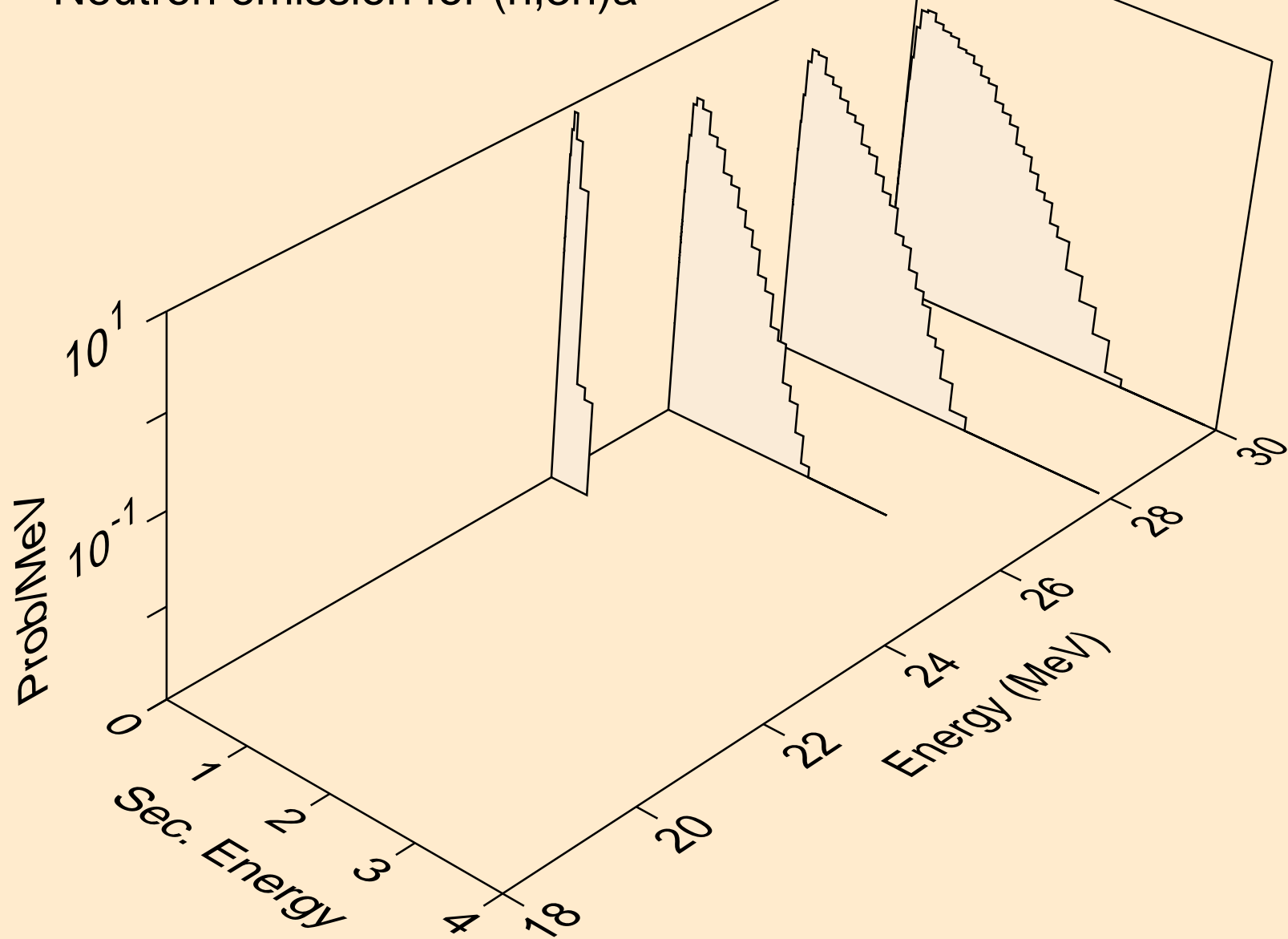
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Neutron emission for (n,n\*)a



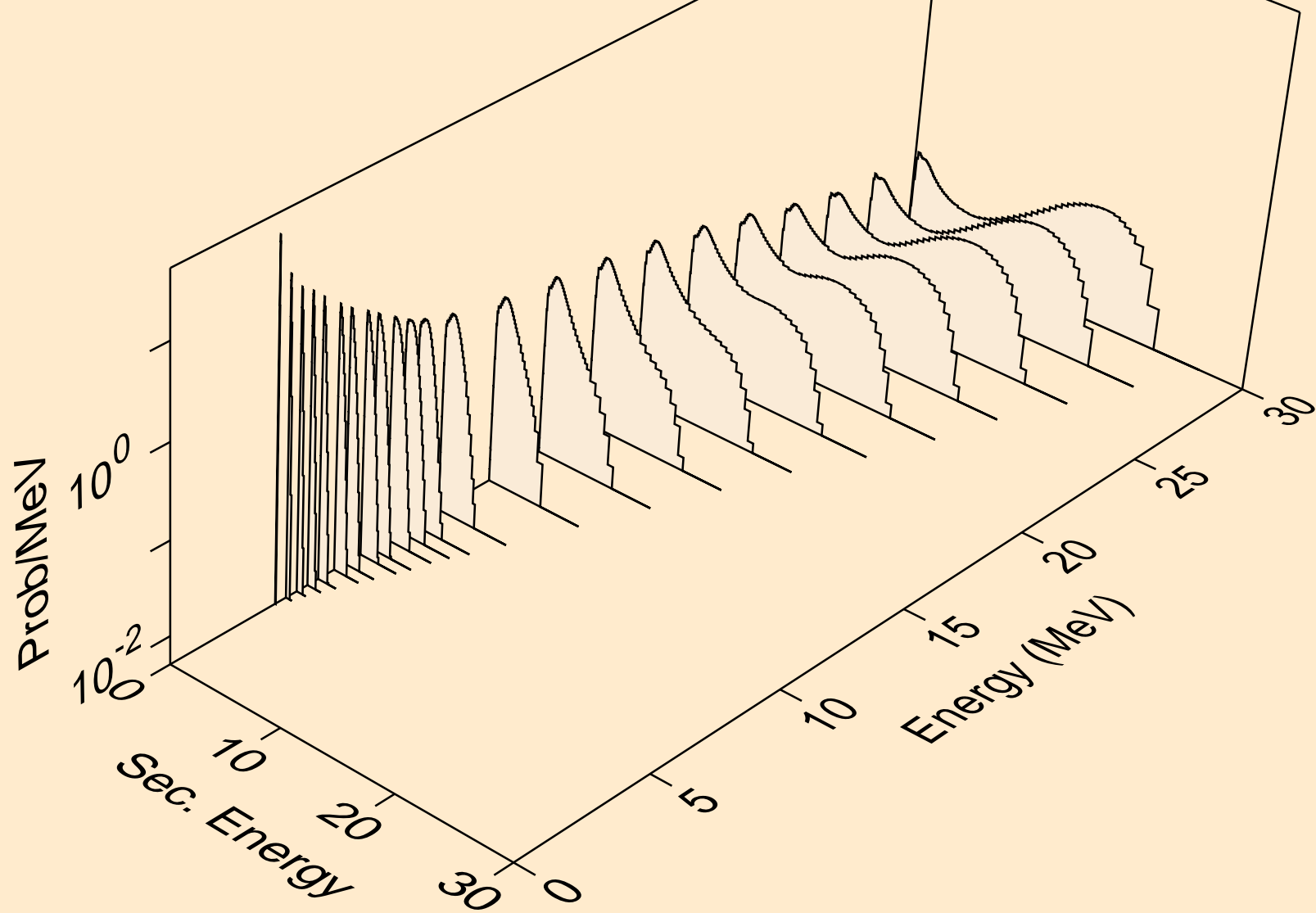
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Neutron emission for (n,2n)a



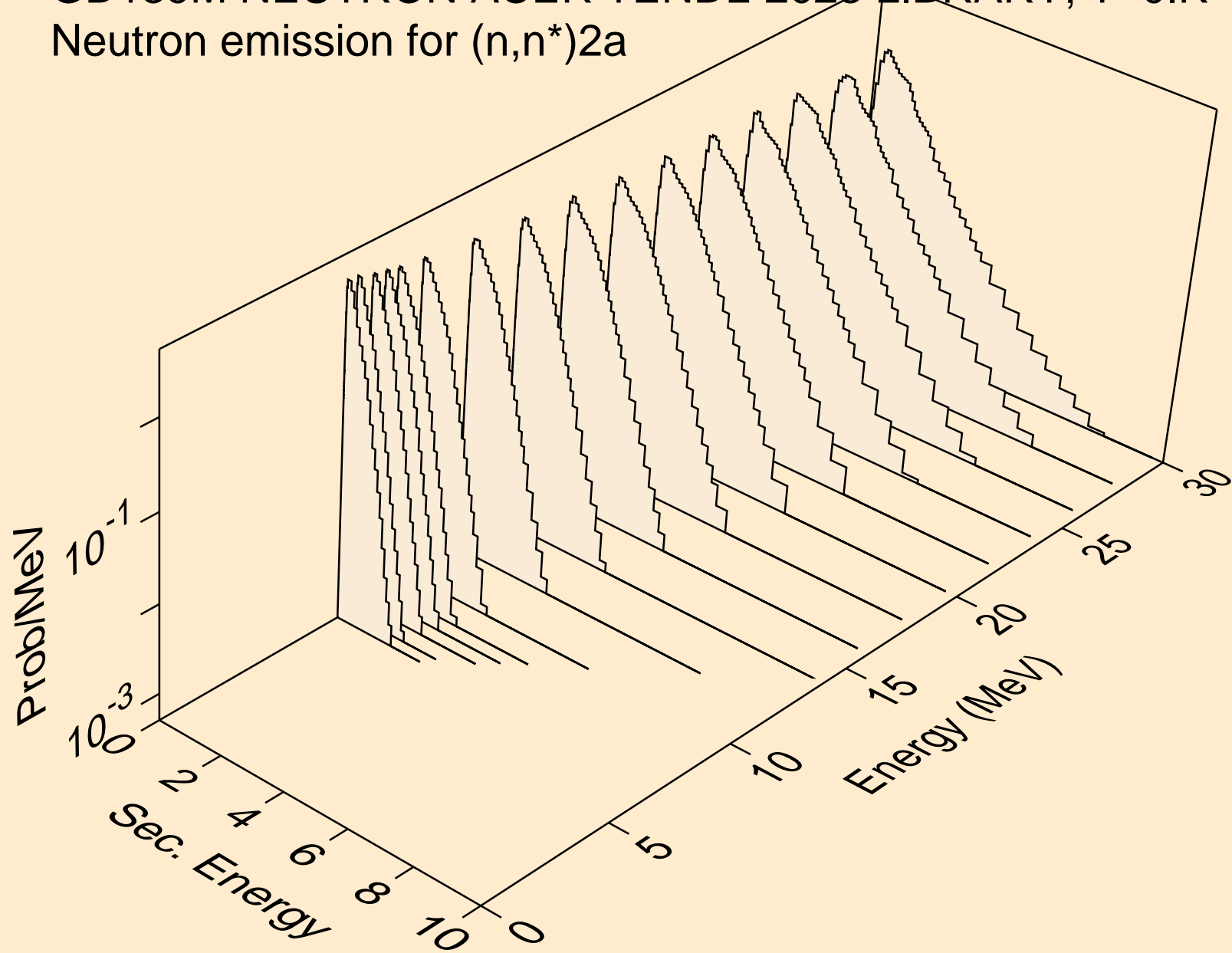
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Neutron emission for (n,3n)a



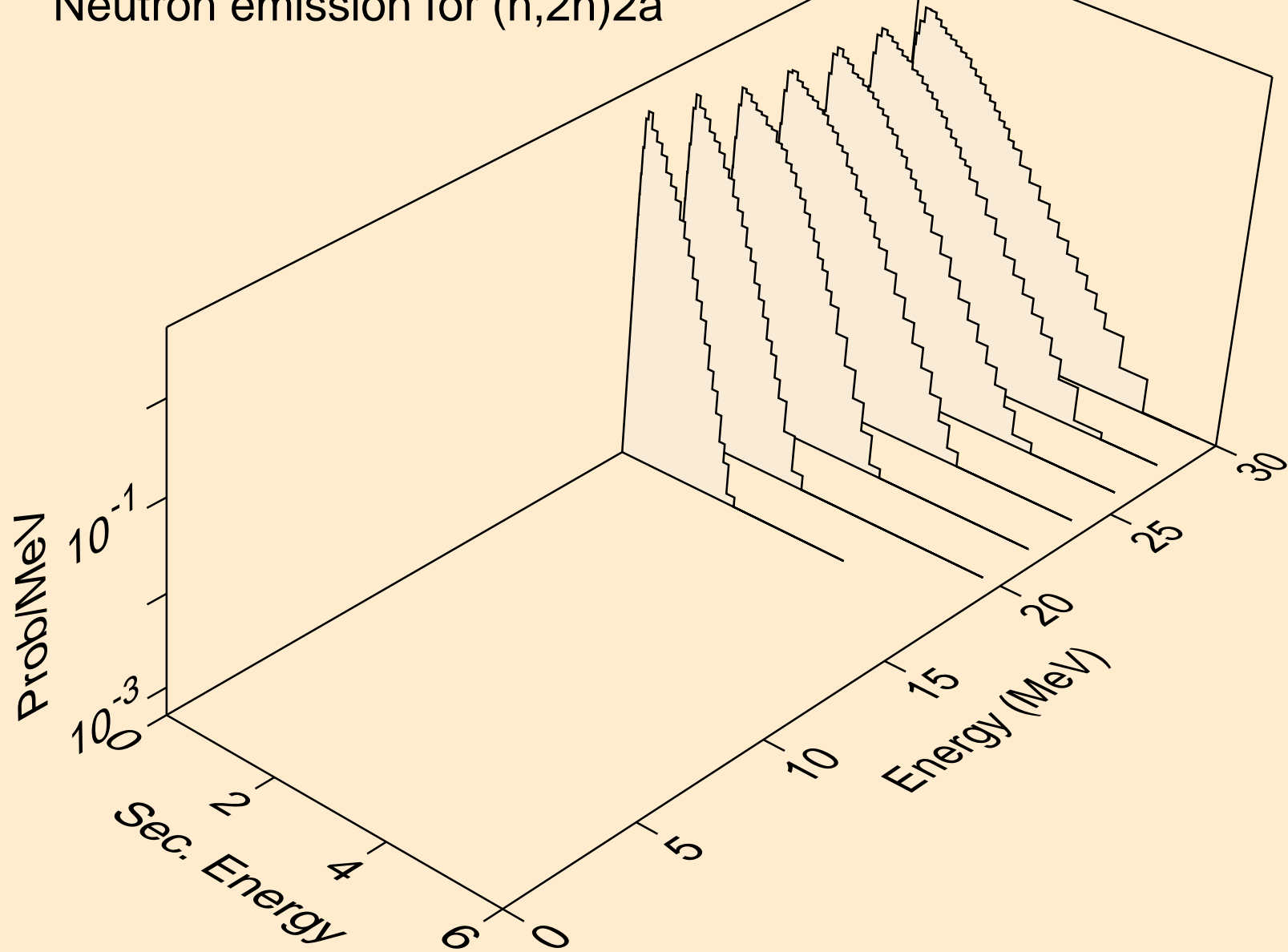
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Neutron emission for (n,n\*)p



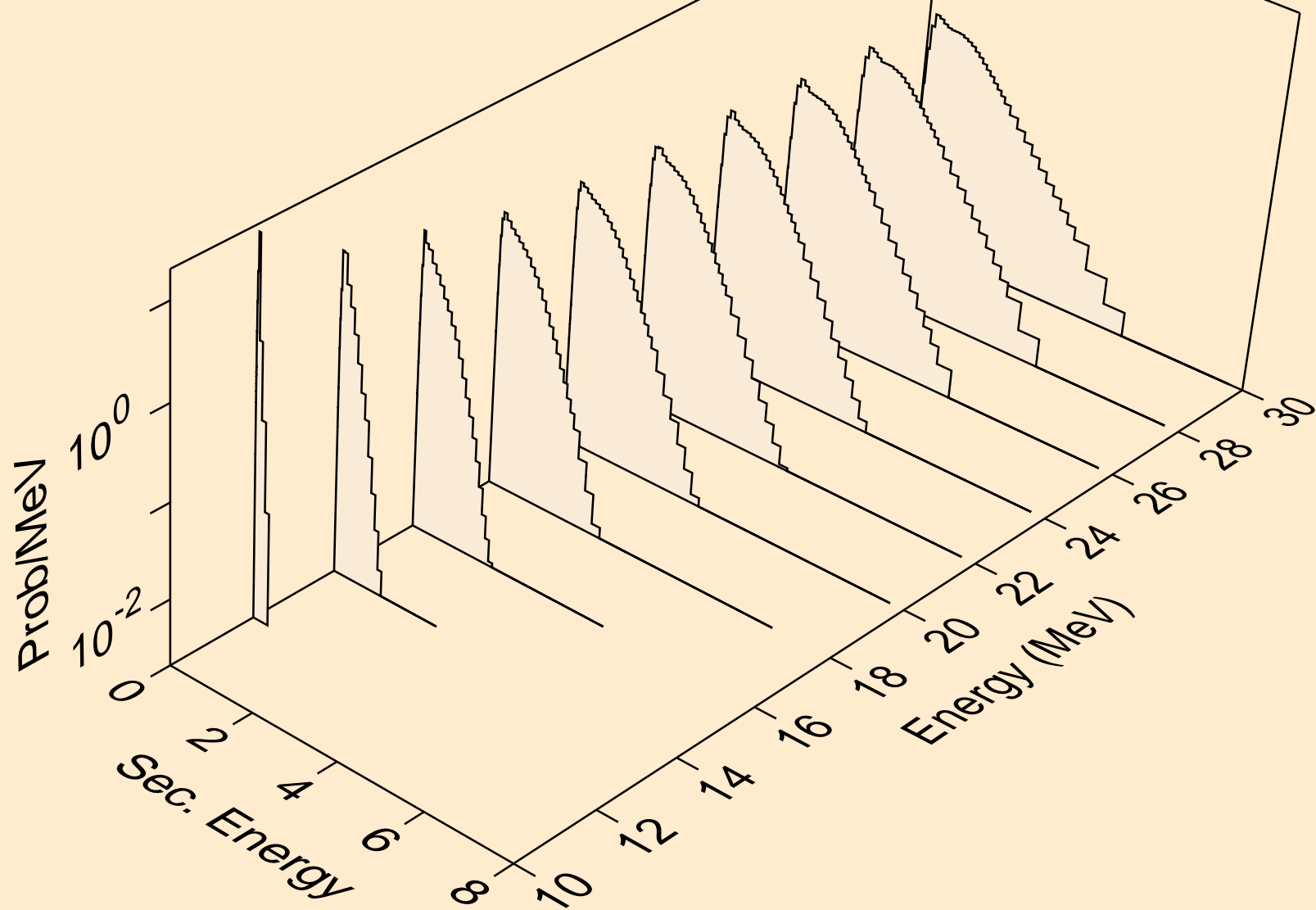
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Neutron emission for (n,n\*)2a



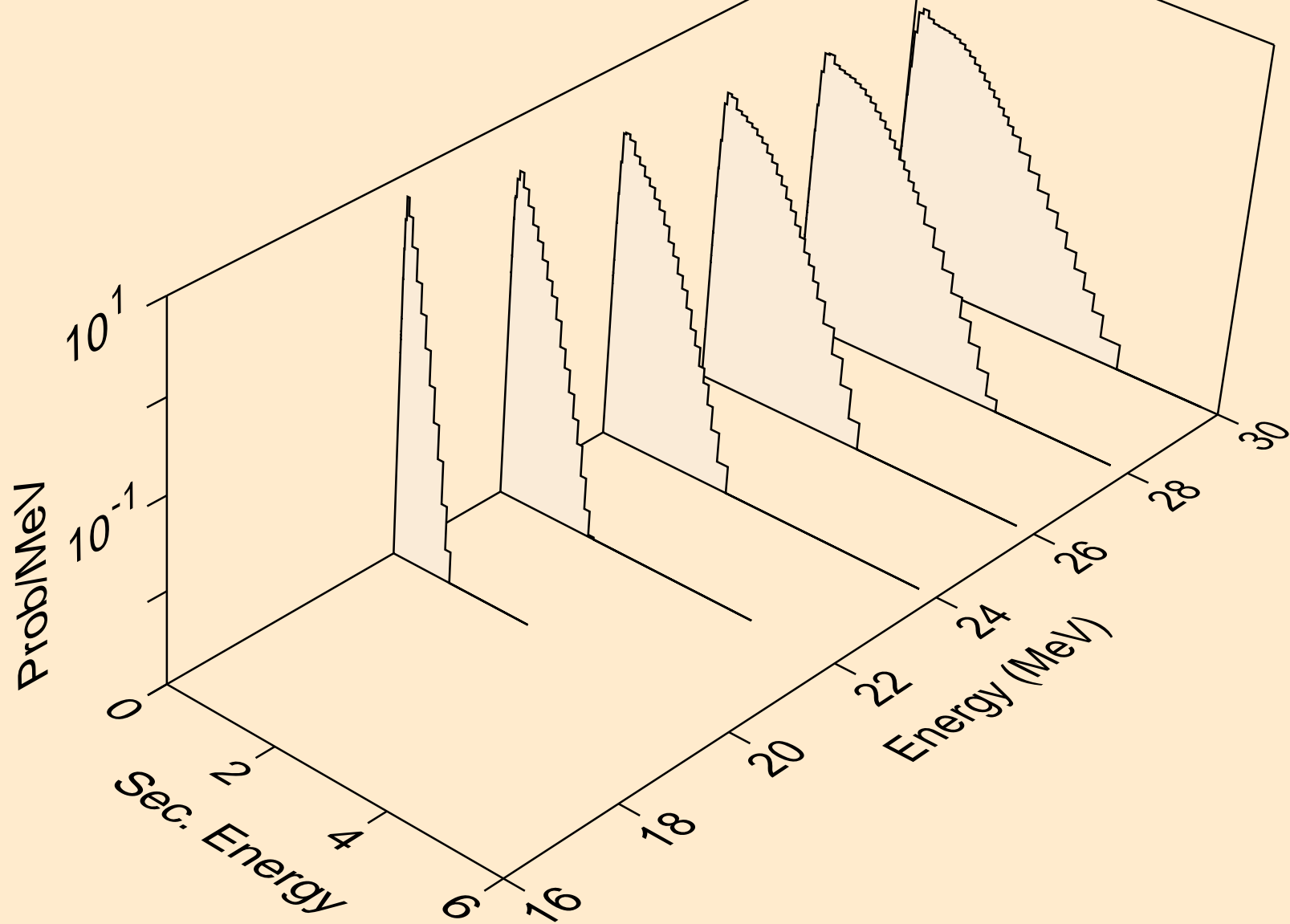
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Neutron emission for (n,2n)2a



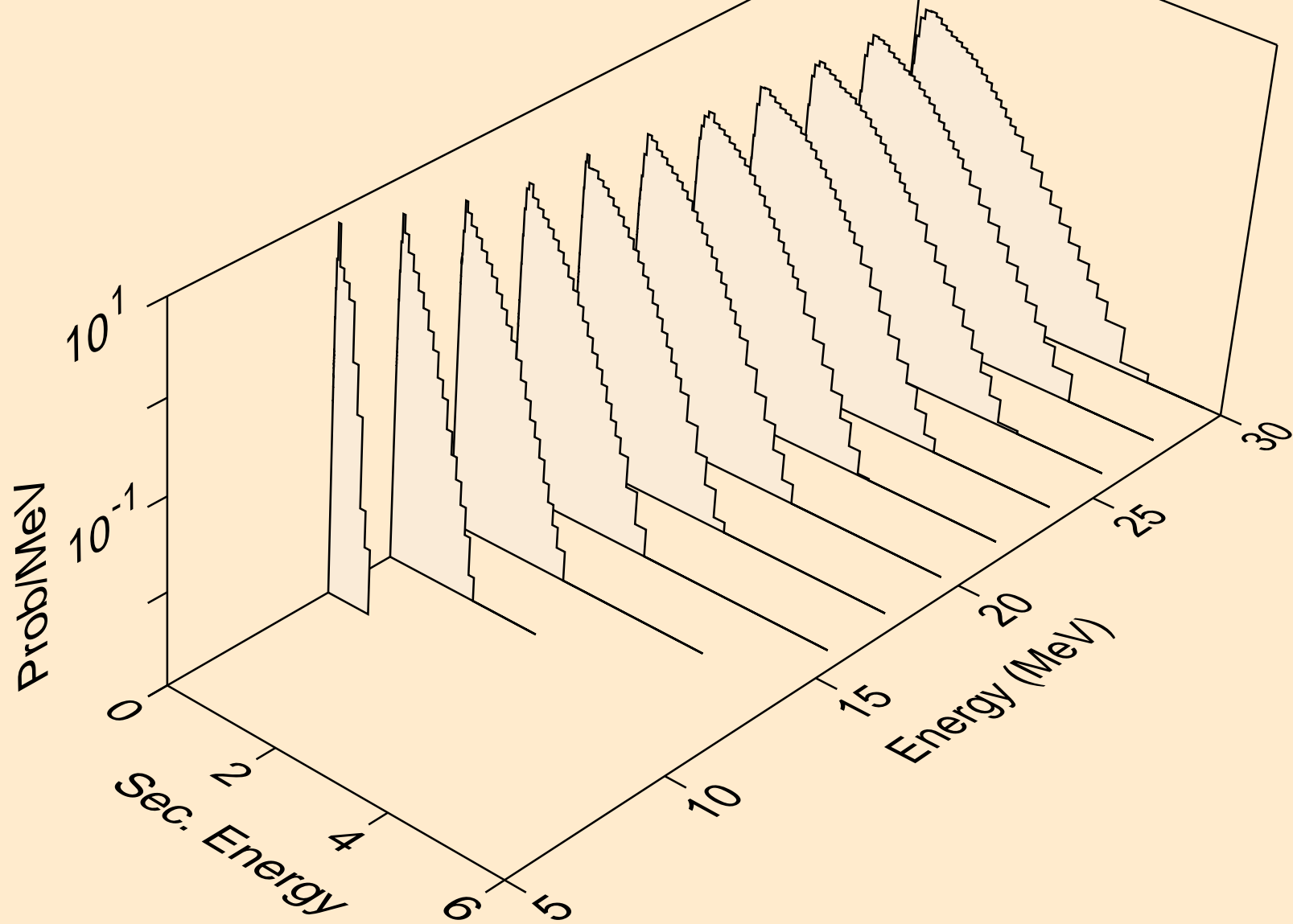
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Neutron emission for (n,n\*)d



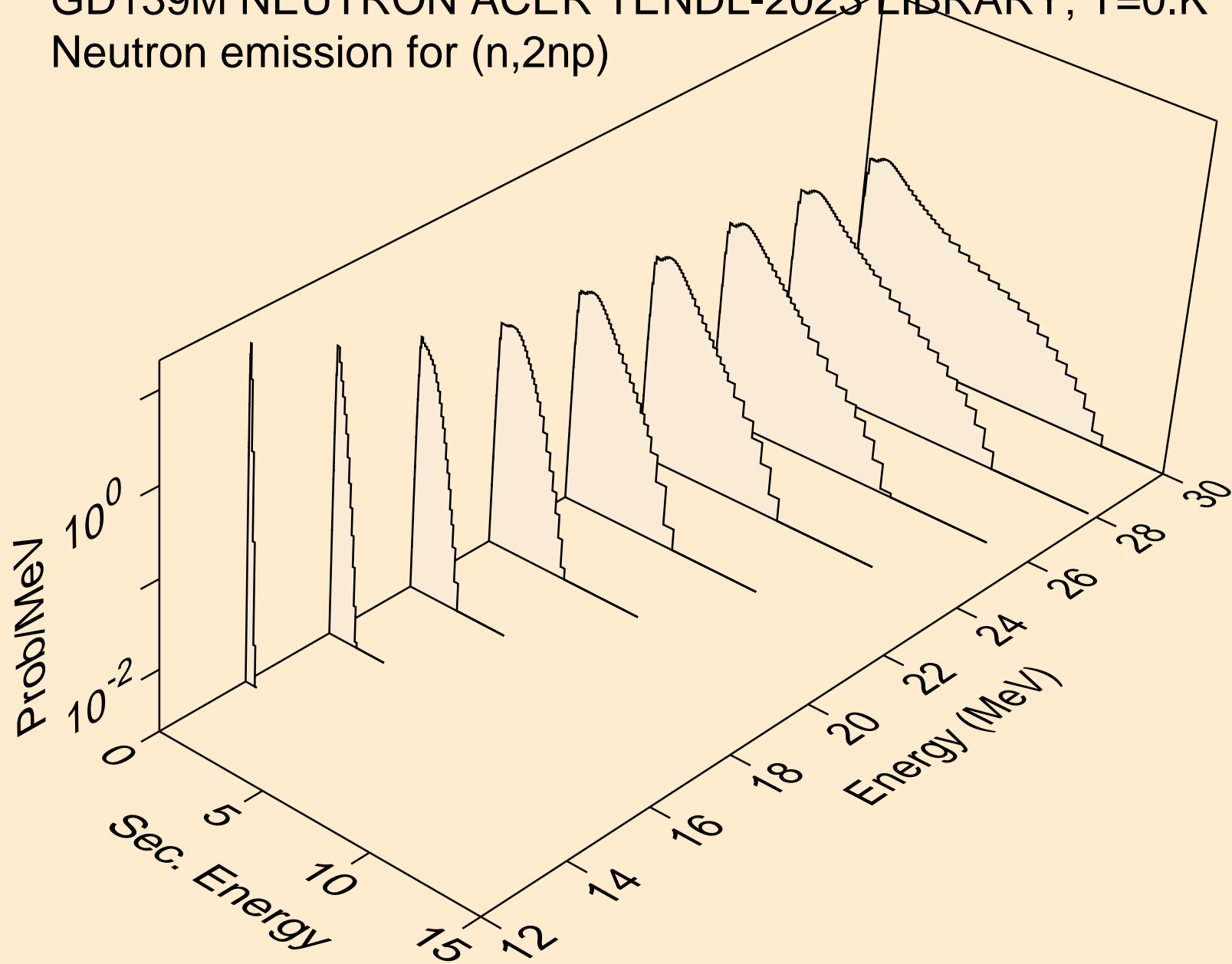
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Neutron emission for (n,n\*)t



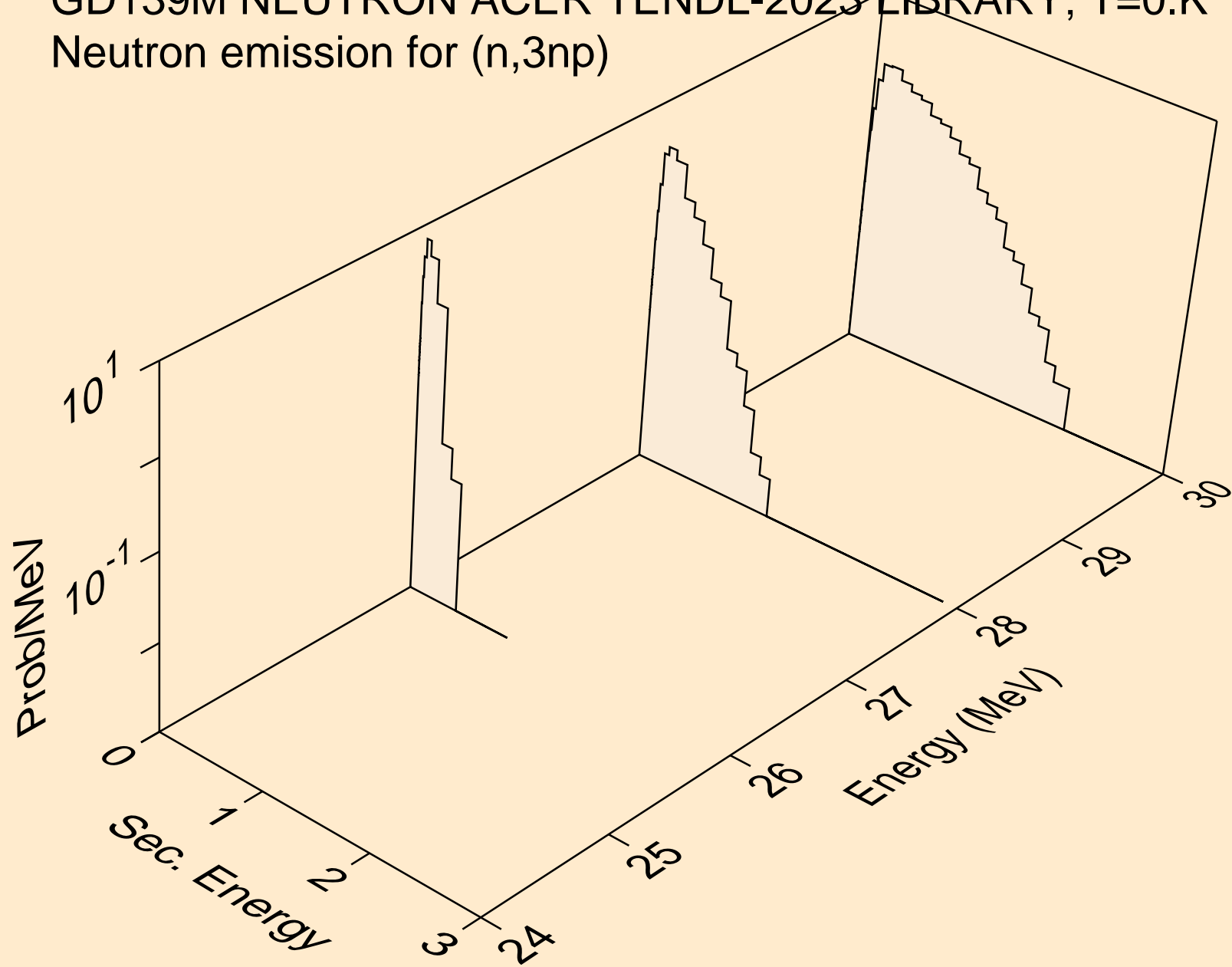
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Neutron emission for (n,n\*)he3



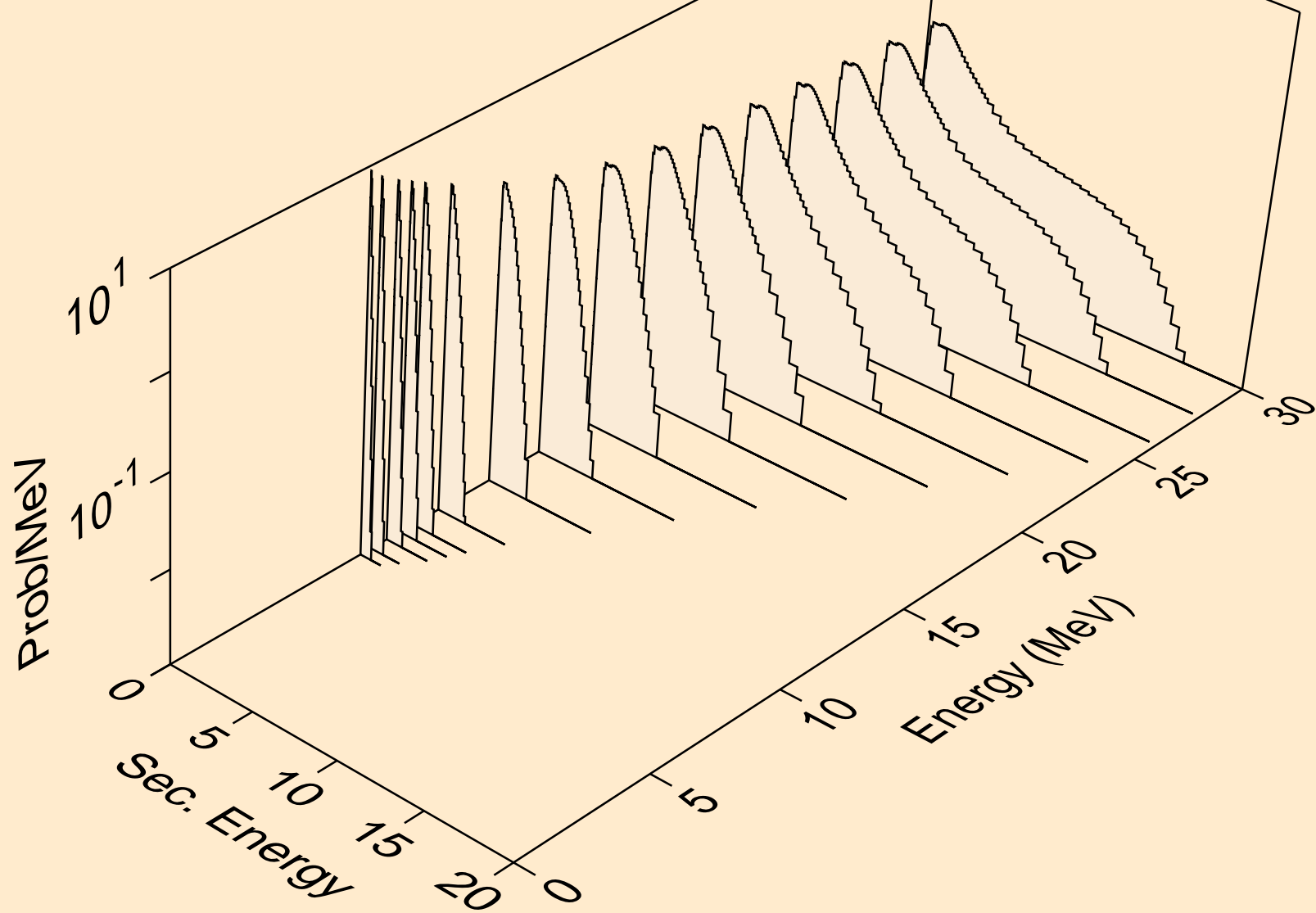
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Neutron emission for (n,2np)



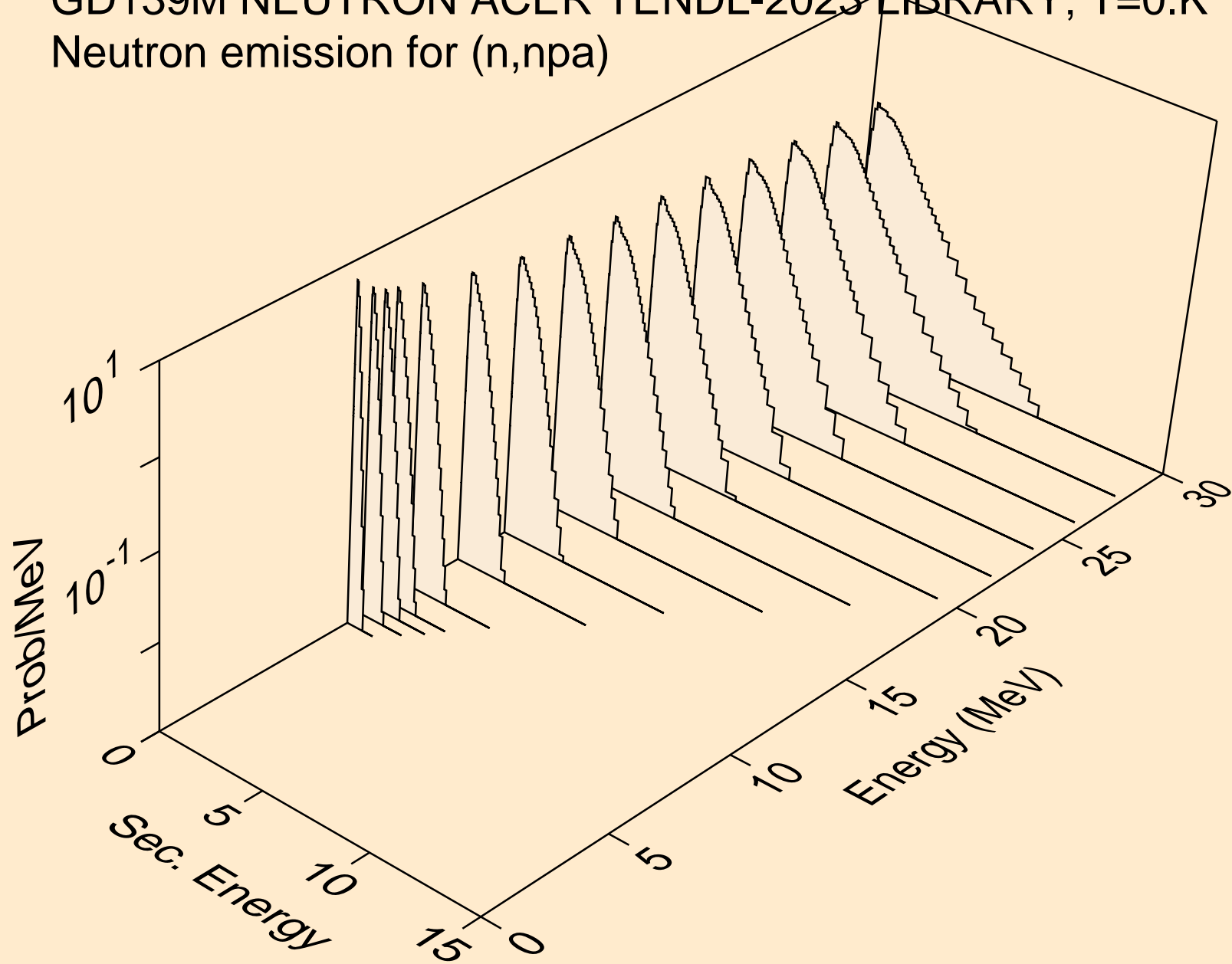
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Neutron emission for (n,3np)



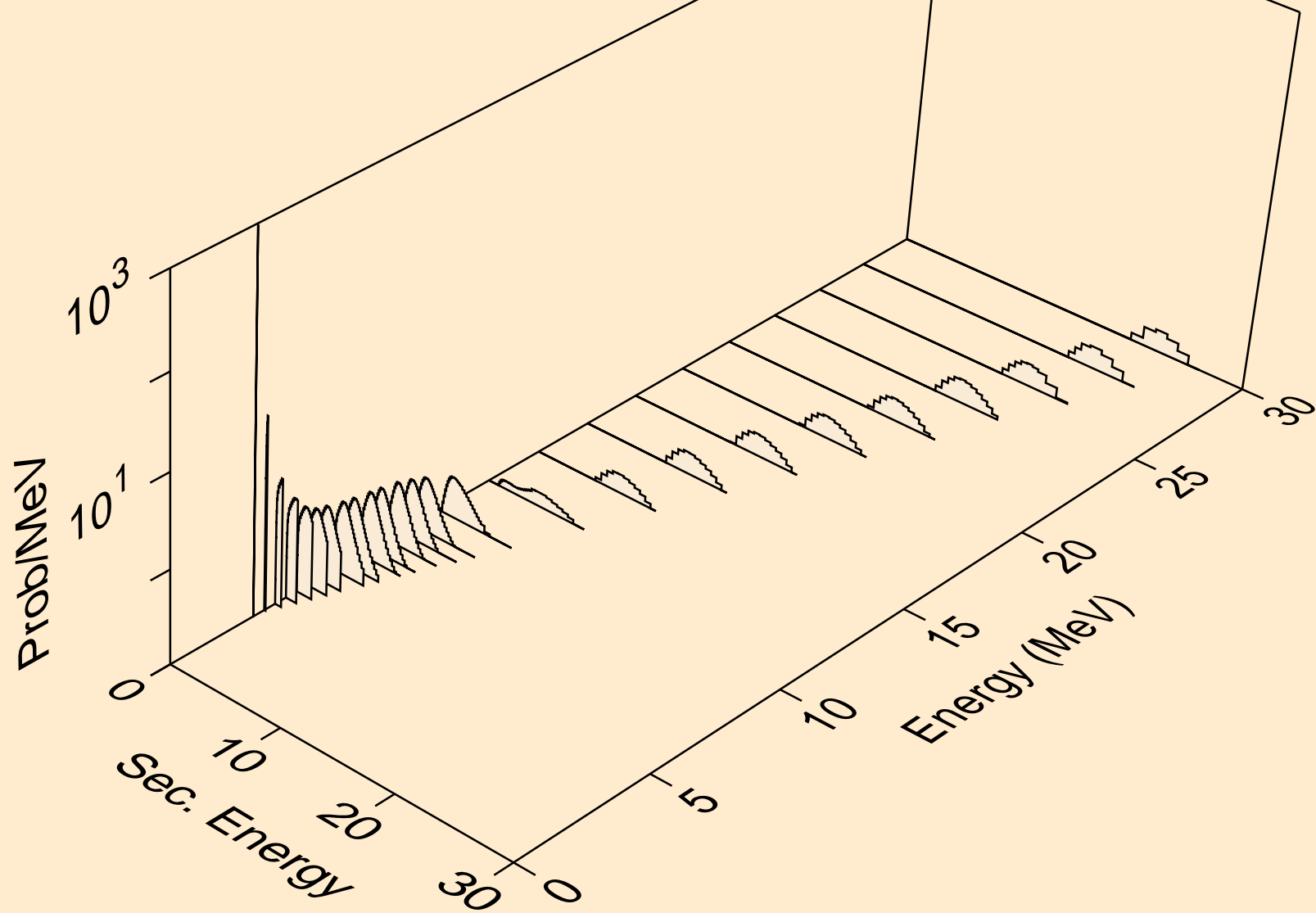
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Neutron emission for (n,n2p)



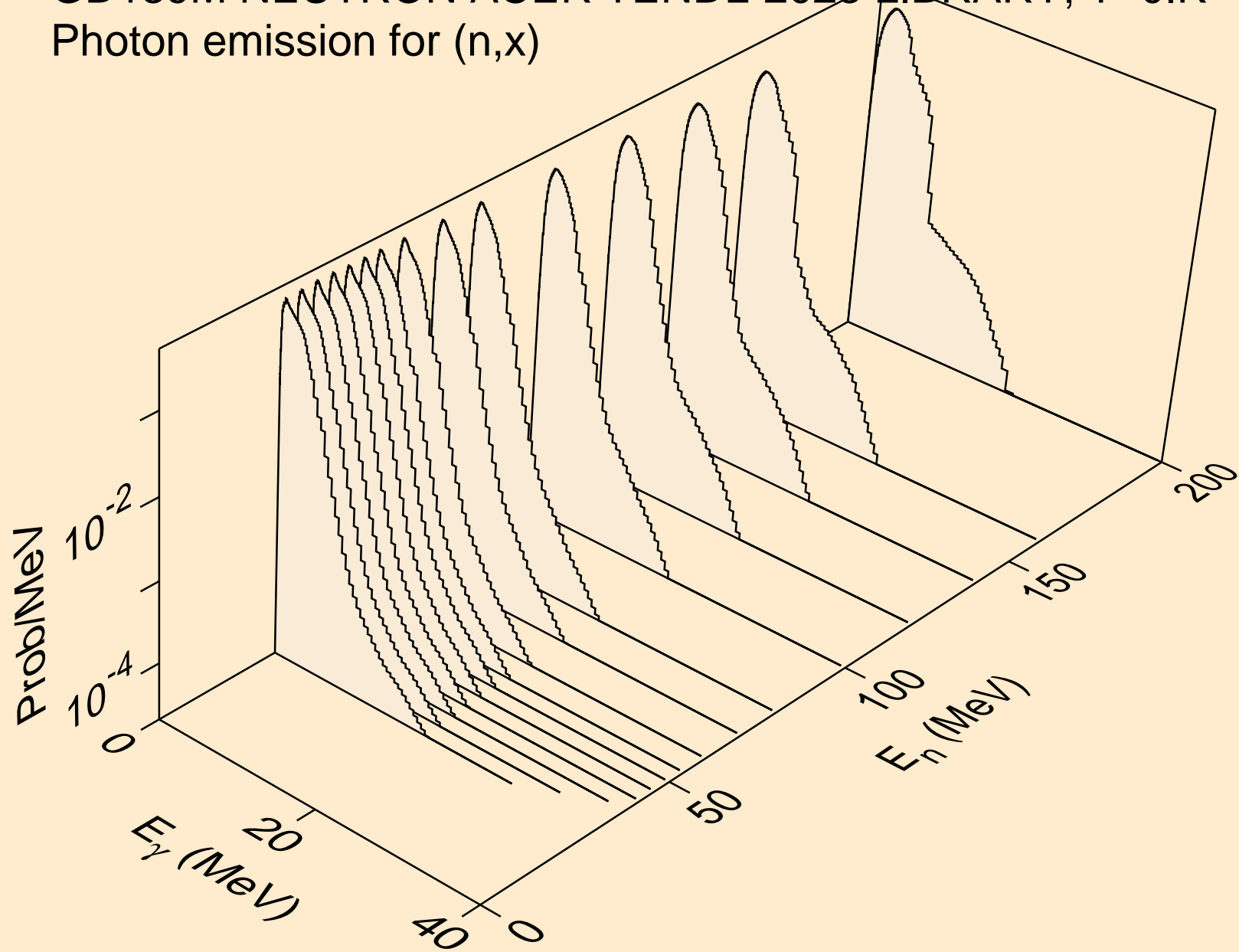
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Neutron emission for (n,npa)



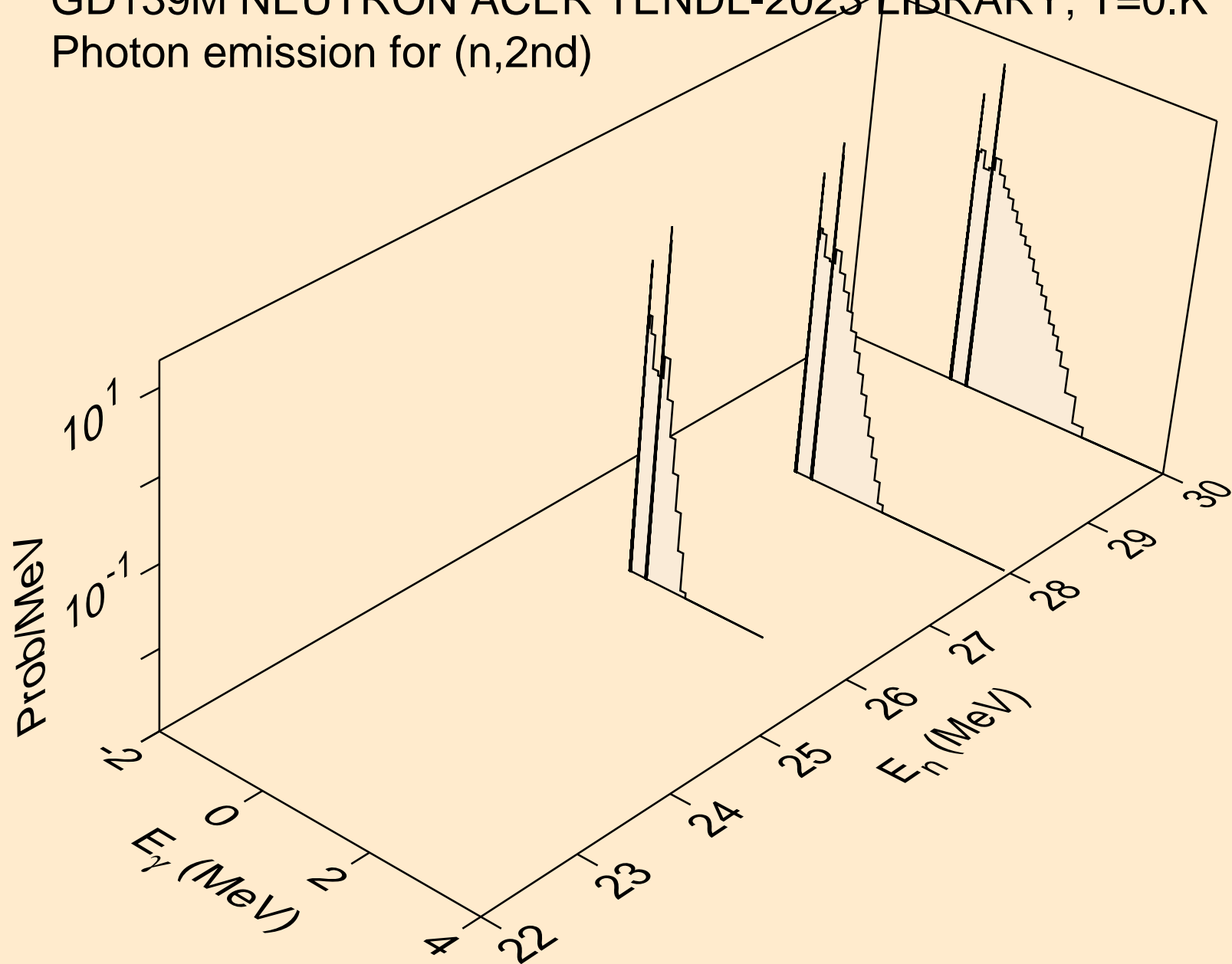
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Neutron emission for (n,n\*c)



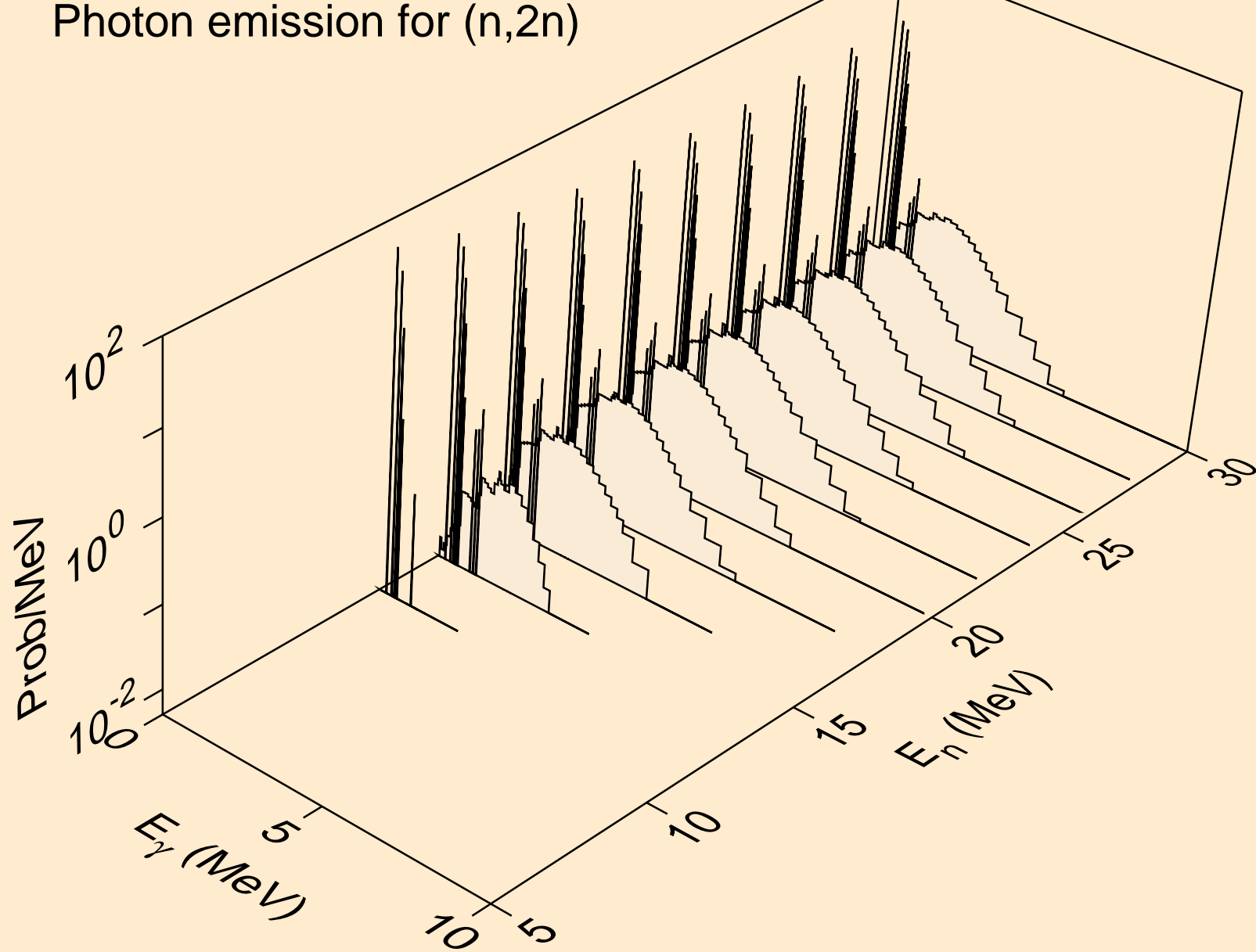
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Photon emission for (n,x)



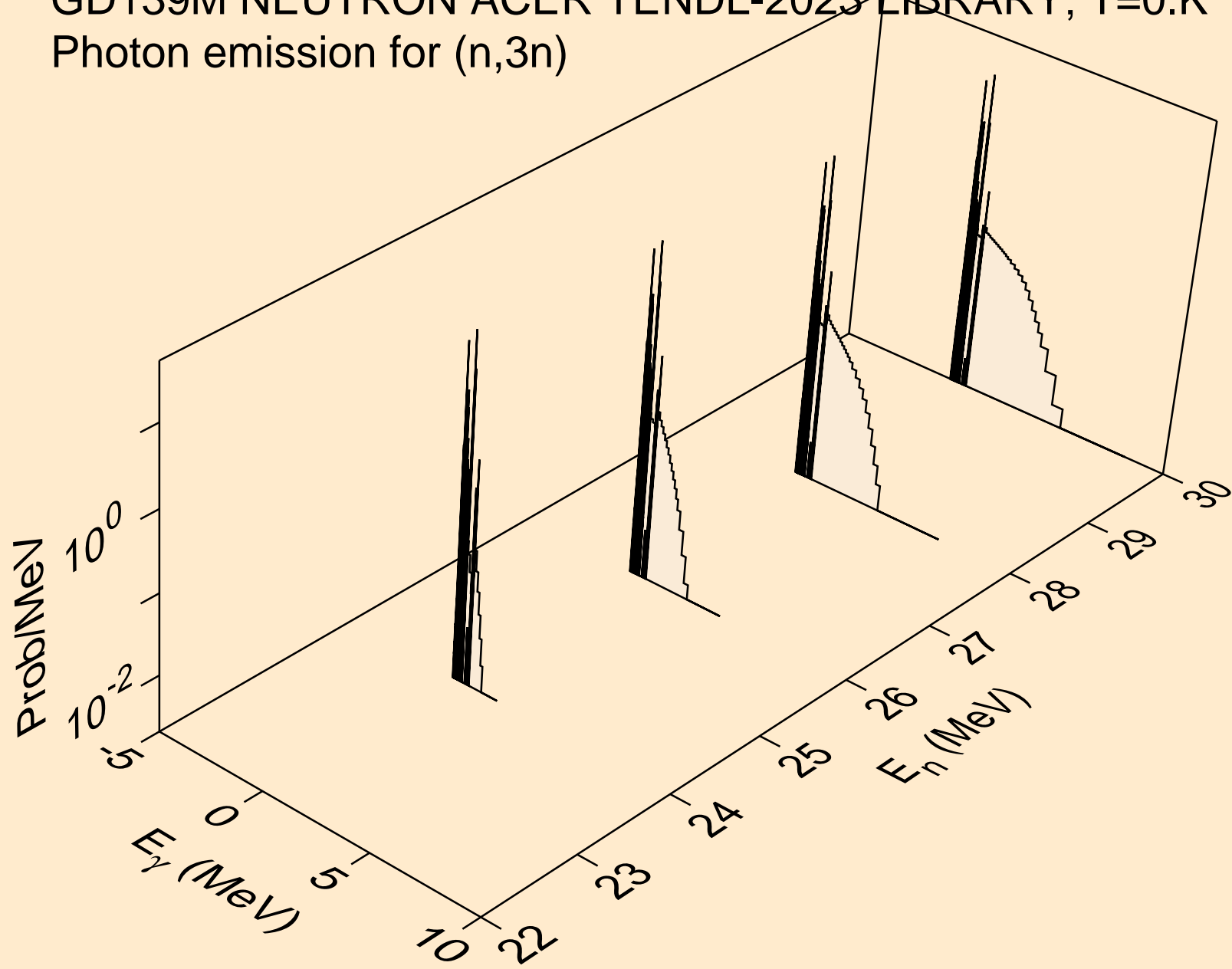
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Photon emission for (n,2nd)



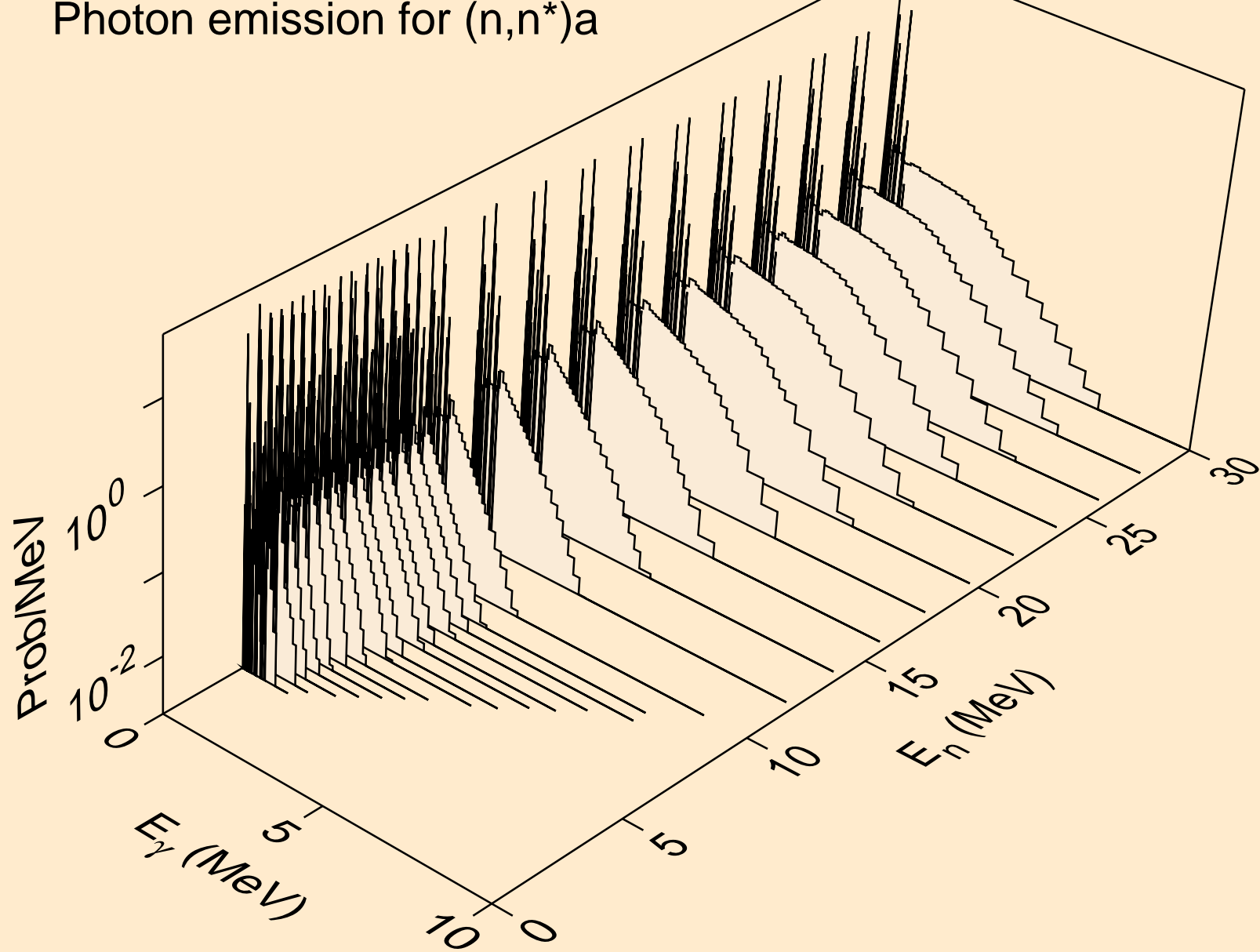
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Photon emission for (n,2n)



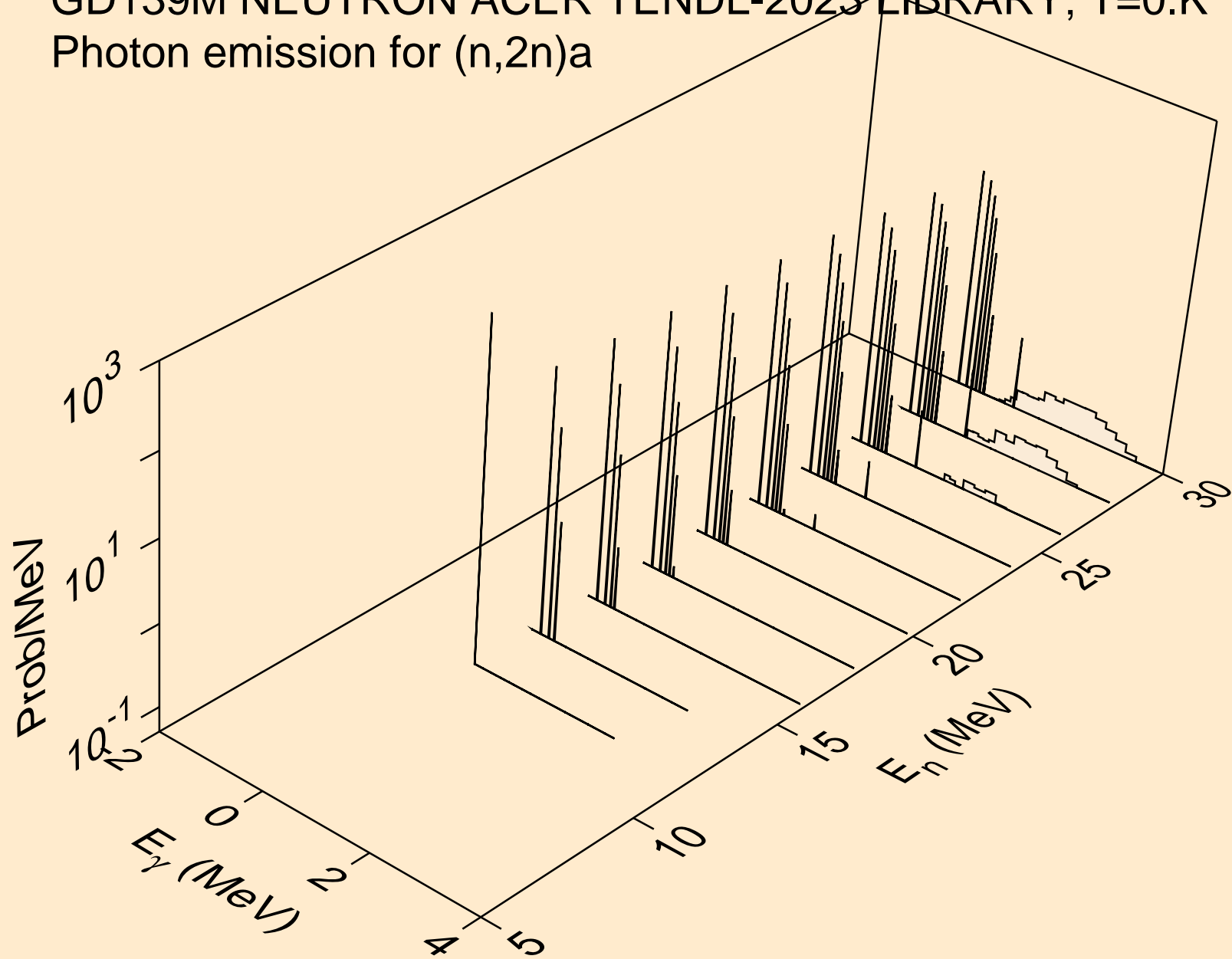
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Photon emission for (n,3n)



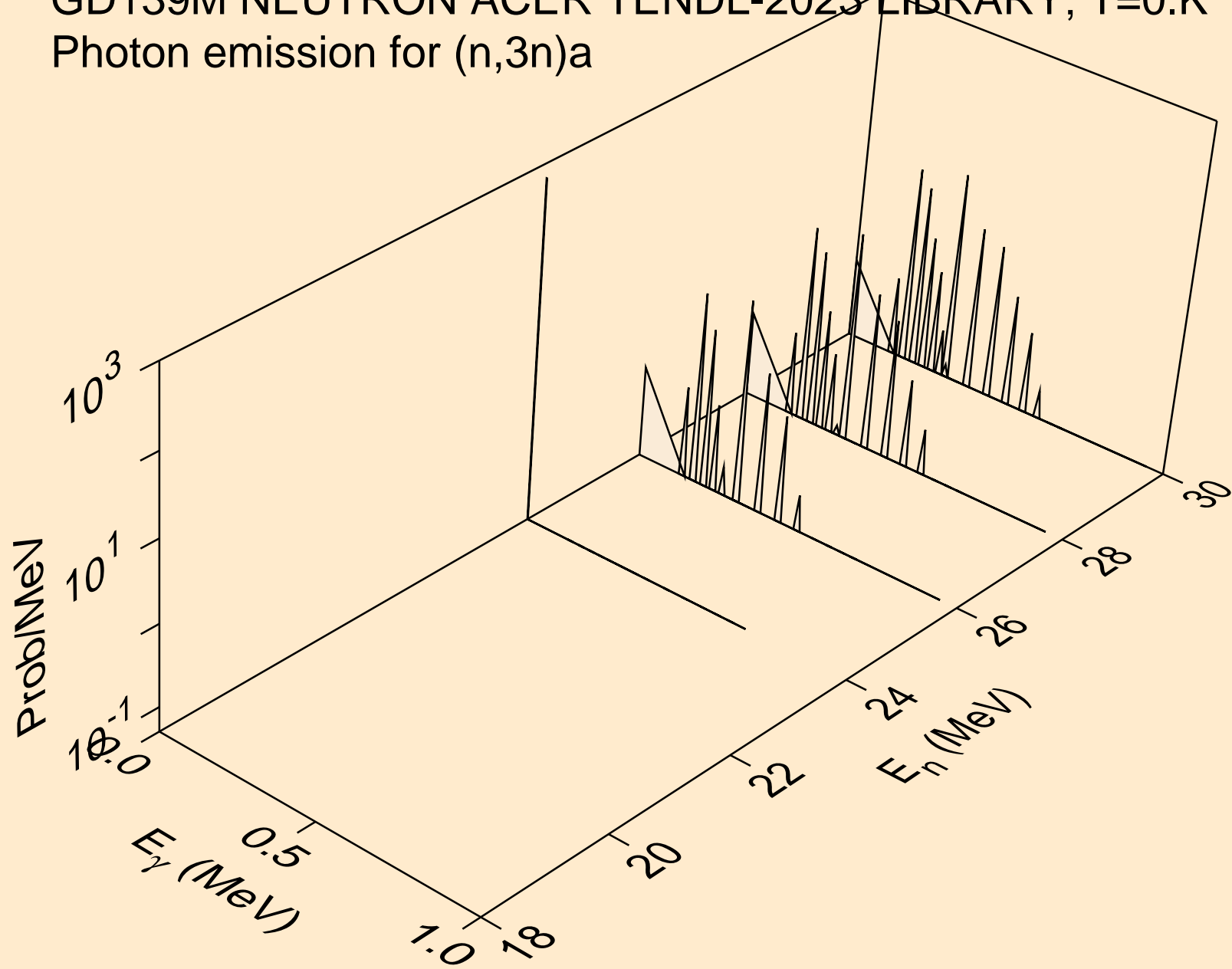
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Photon emission for (n,n\*)a



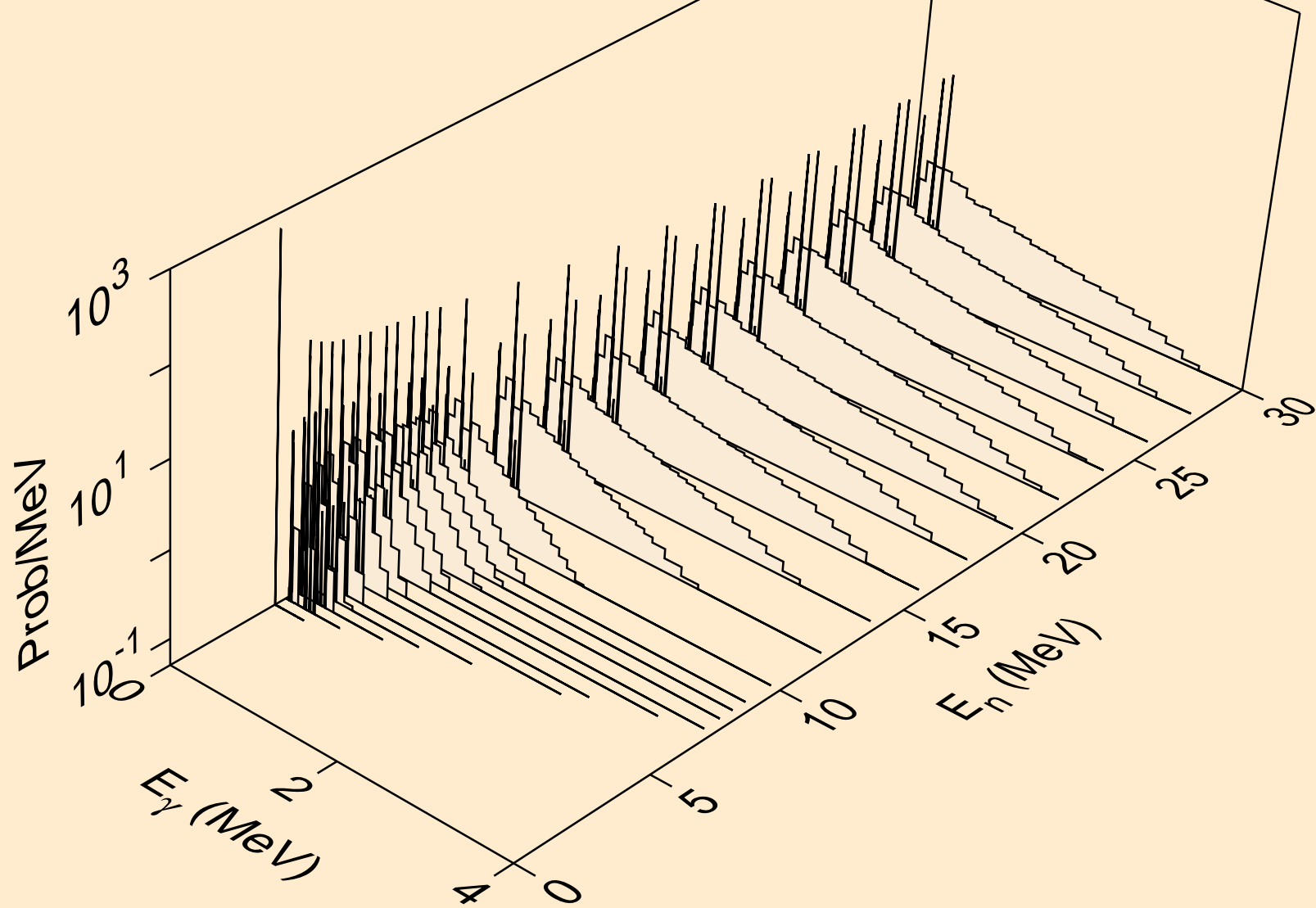
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Photon emission for (n,2n)a



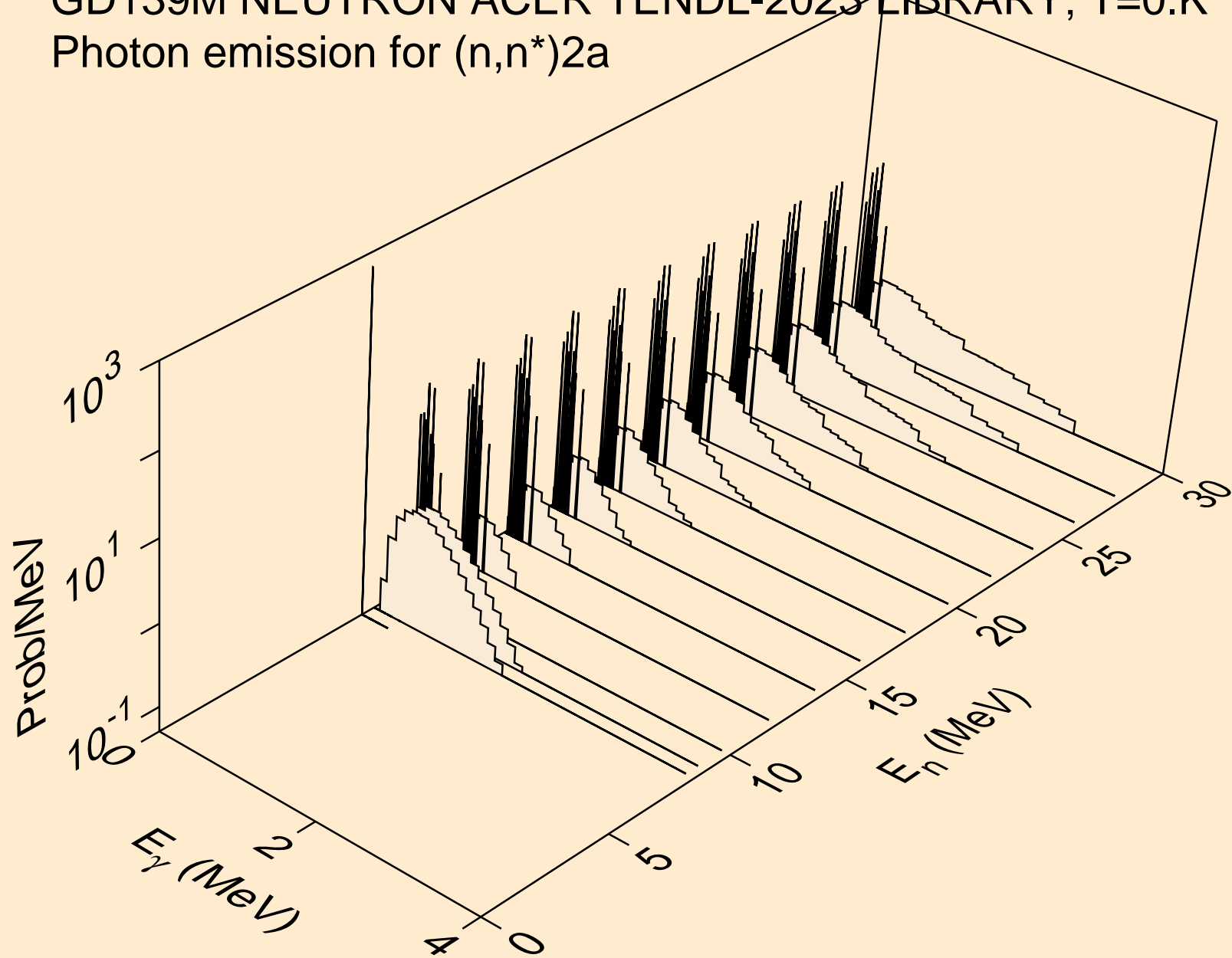
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Photon emission for (n,3n)a



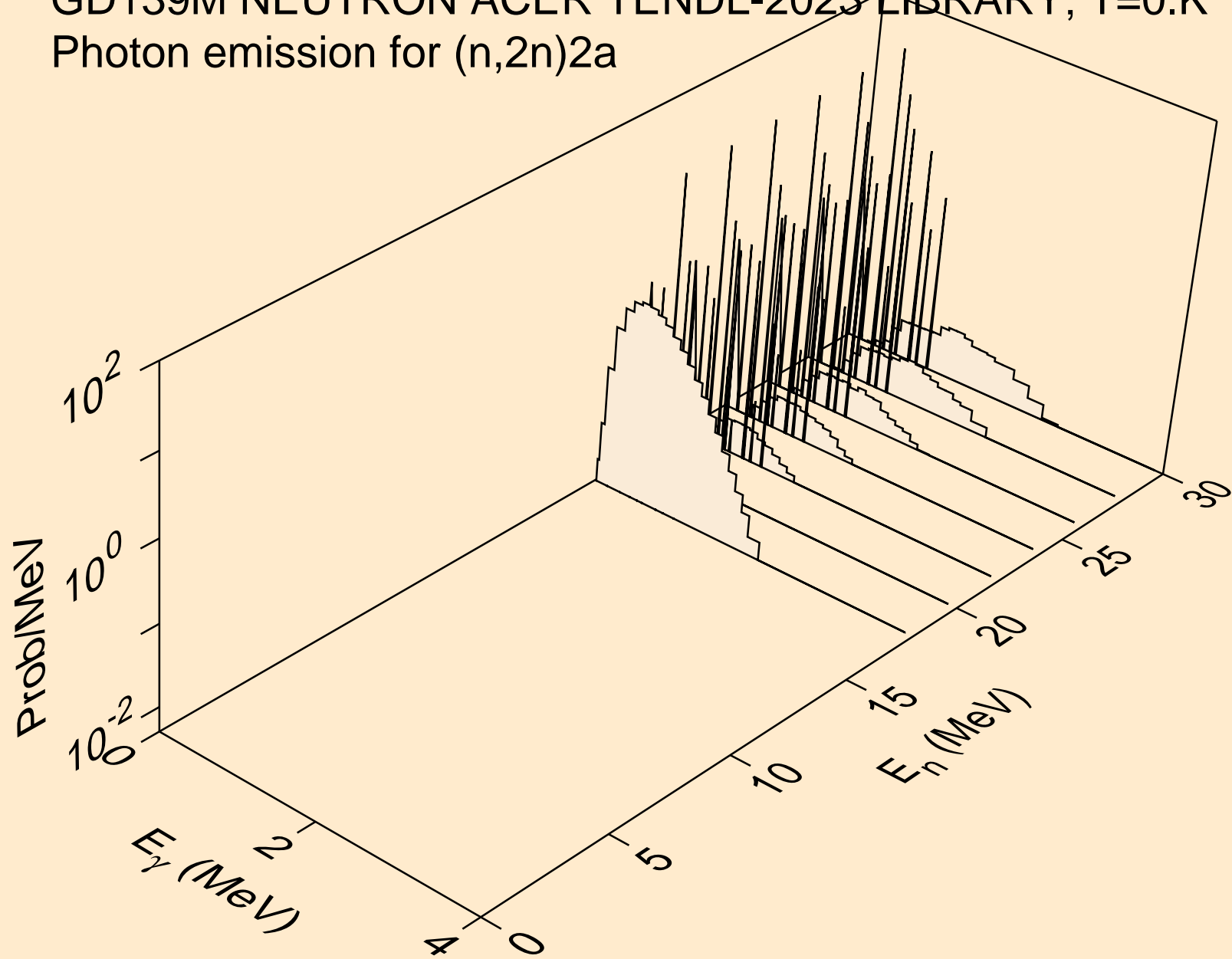
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Photon emission for (n,n\*)p



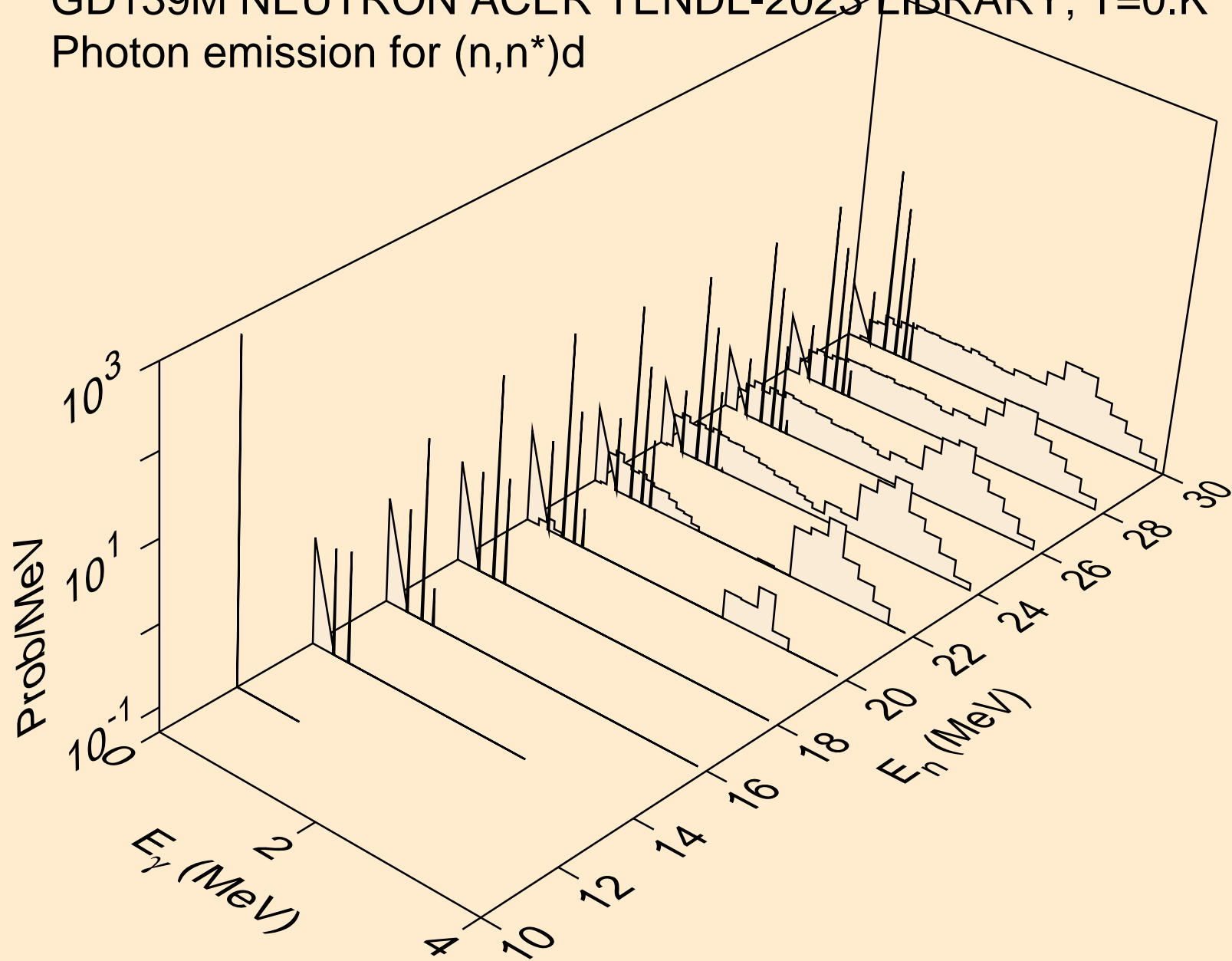
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Photon emission for (n,n\*)2a



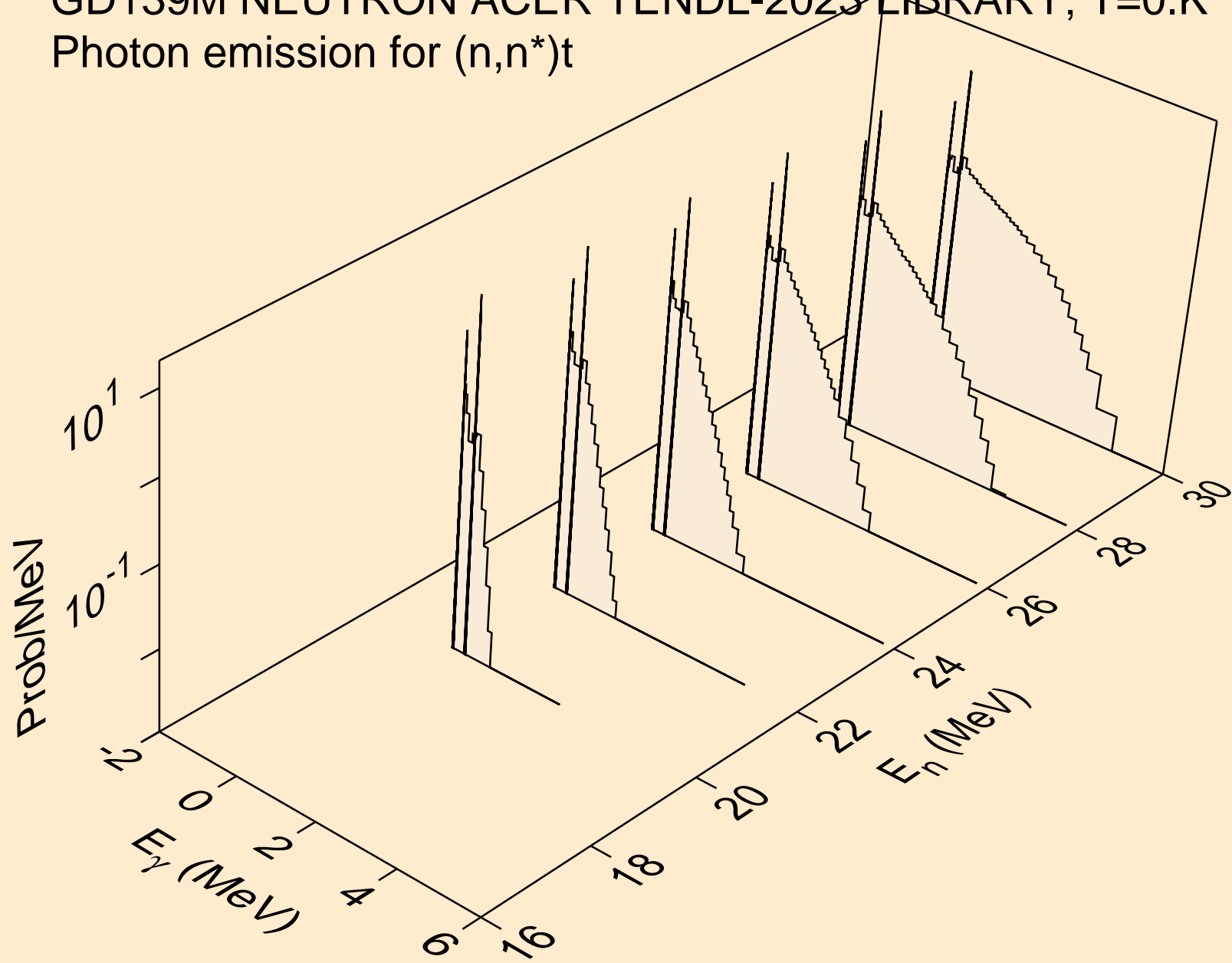
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Photon emission for (n,2n)2a



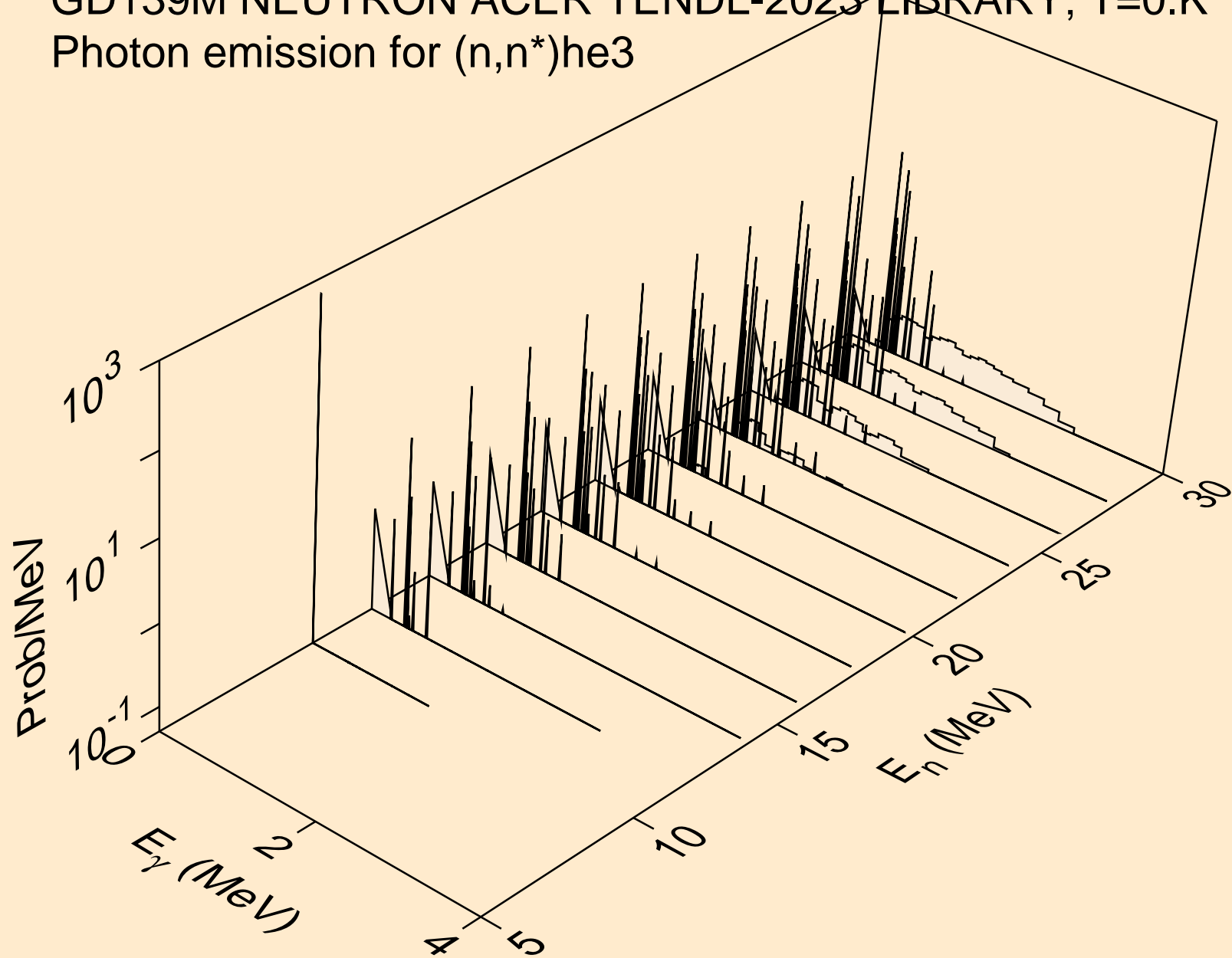
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Photon emission for (n,n\*)d



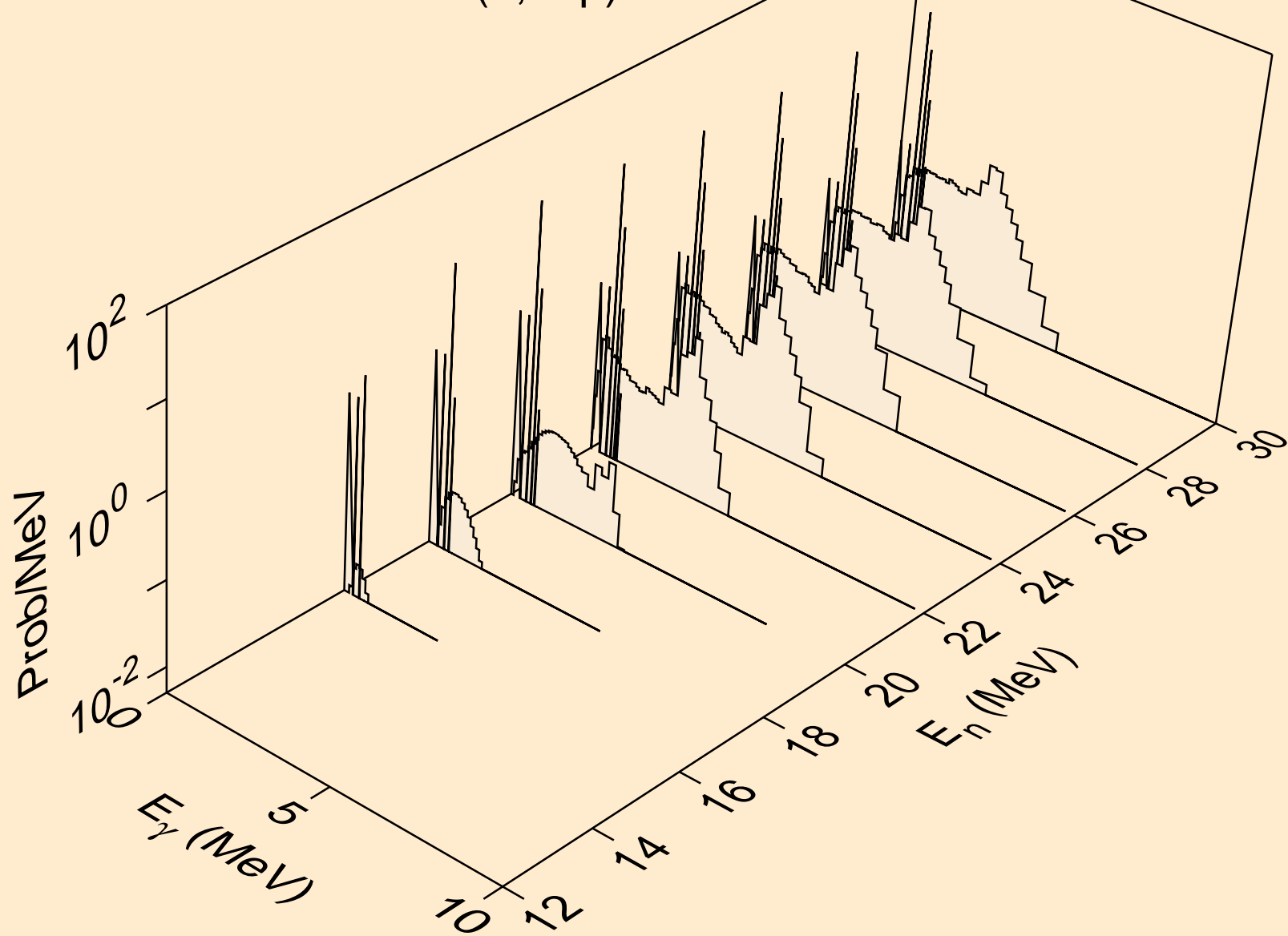
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Photon emission for (n,n\*)t



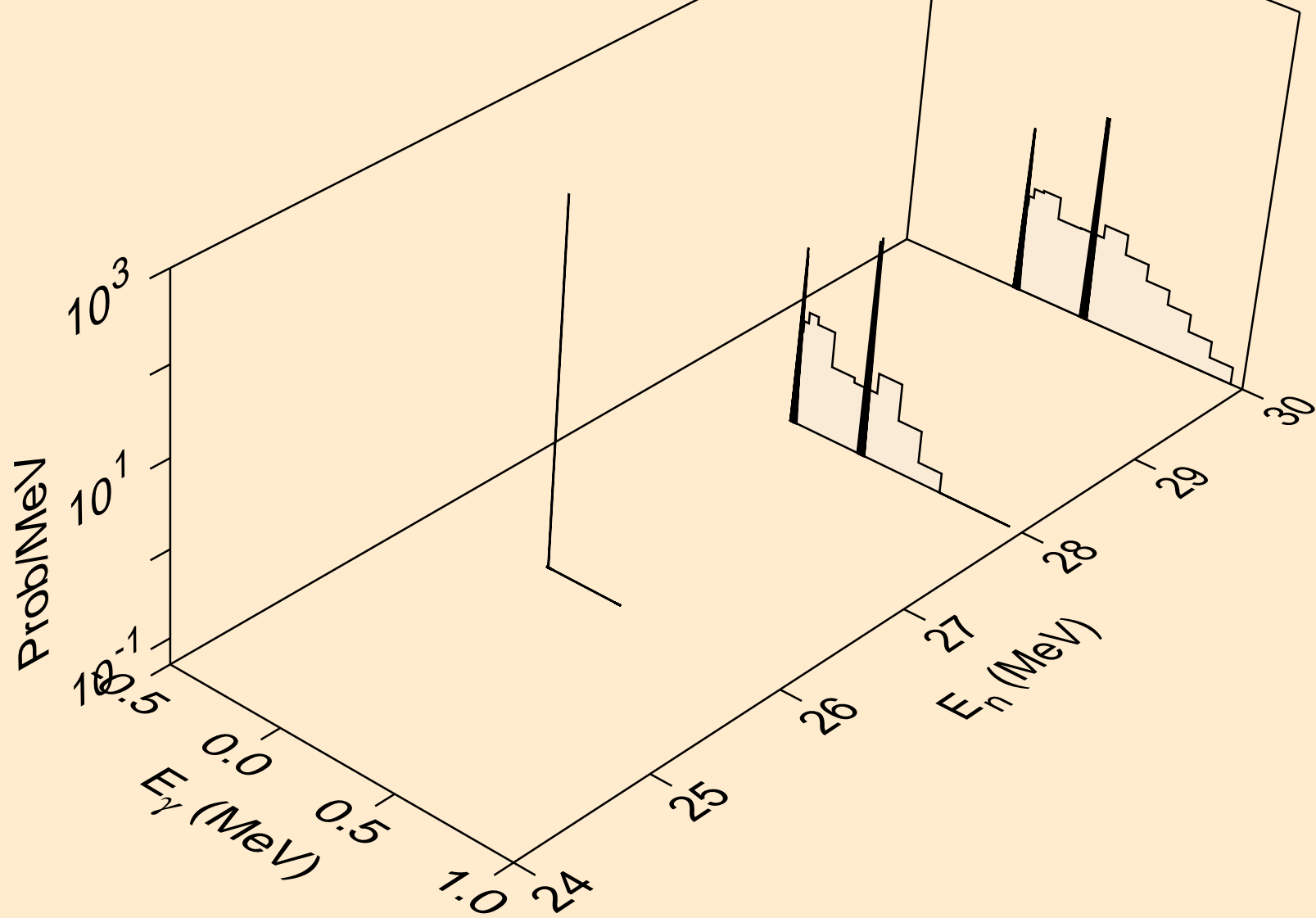
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Photon emission for (n,n\*)he3



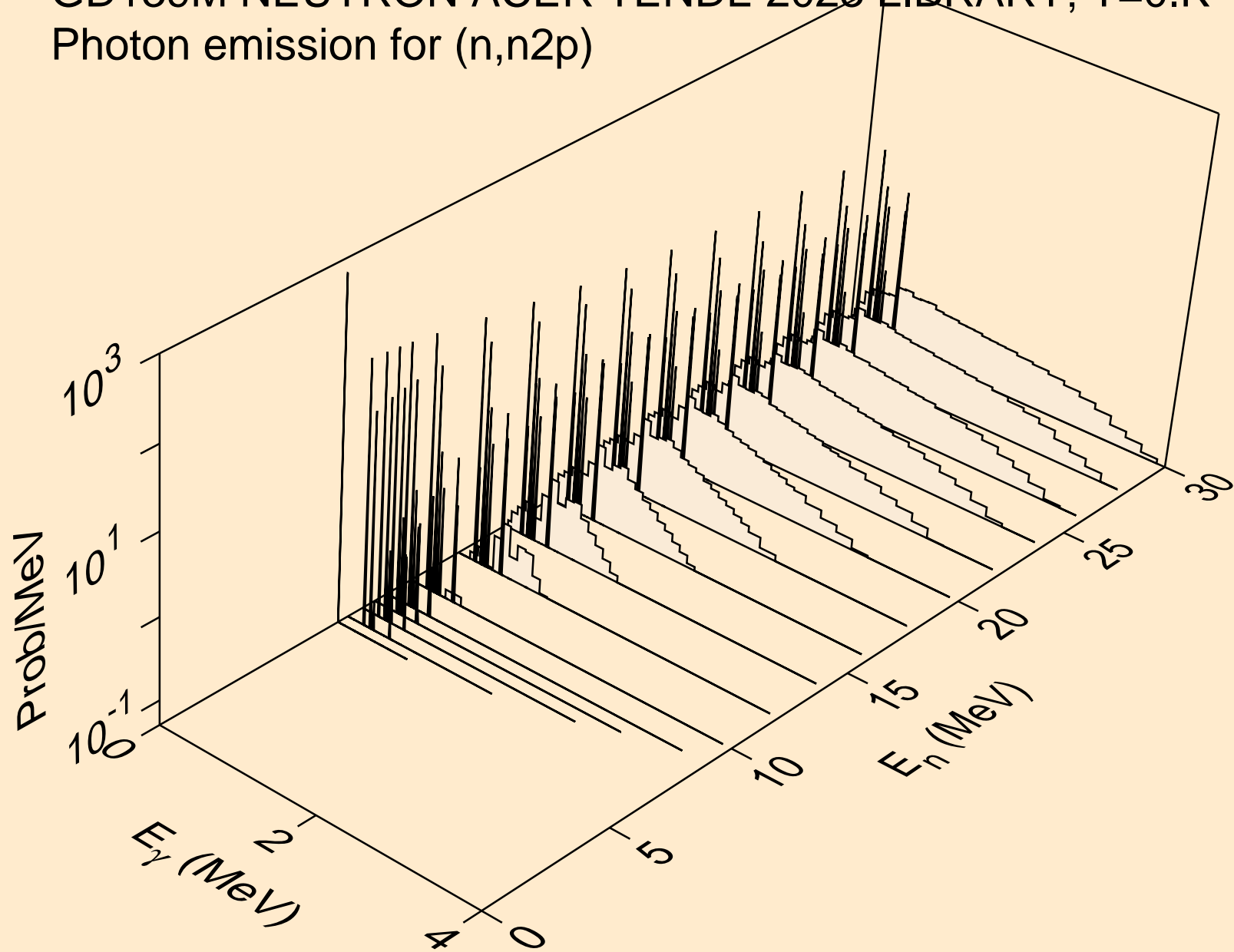
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Photon emission for (n,2np)



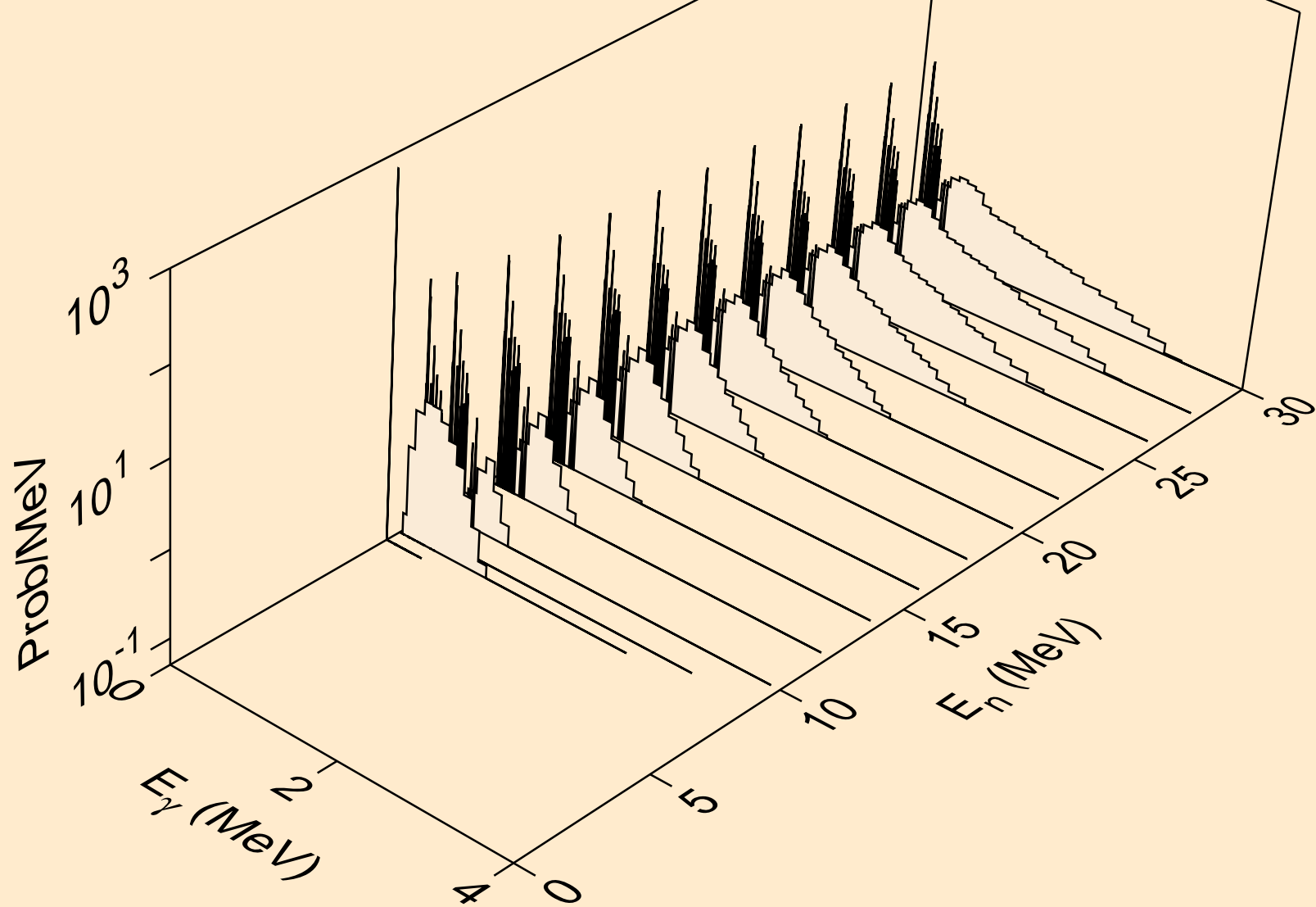
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Photon emission for (n,3np)



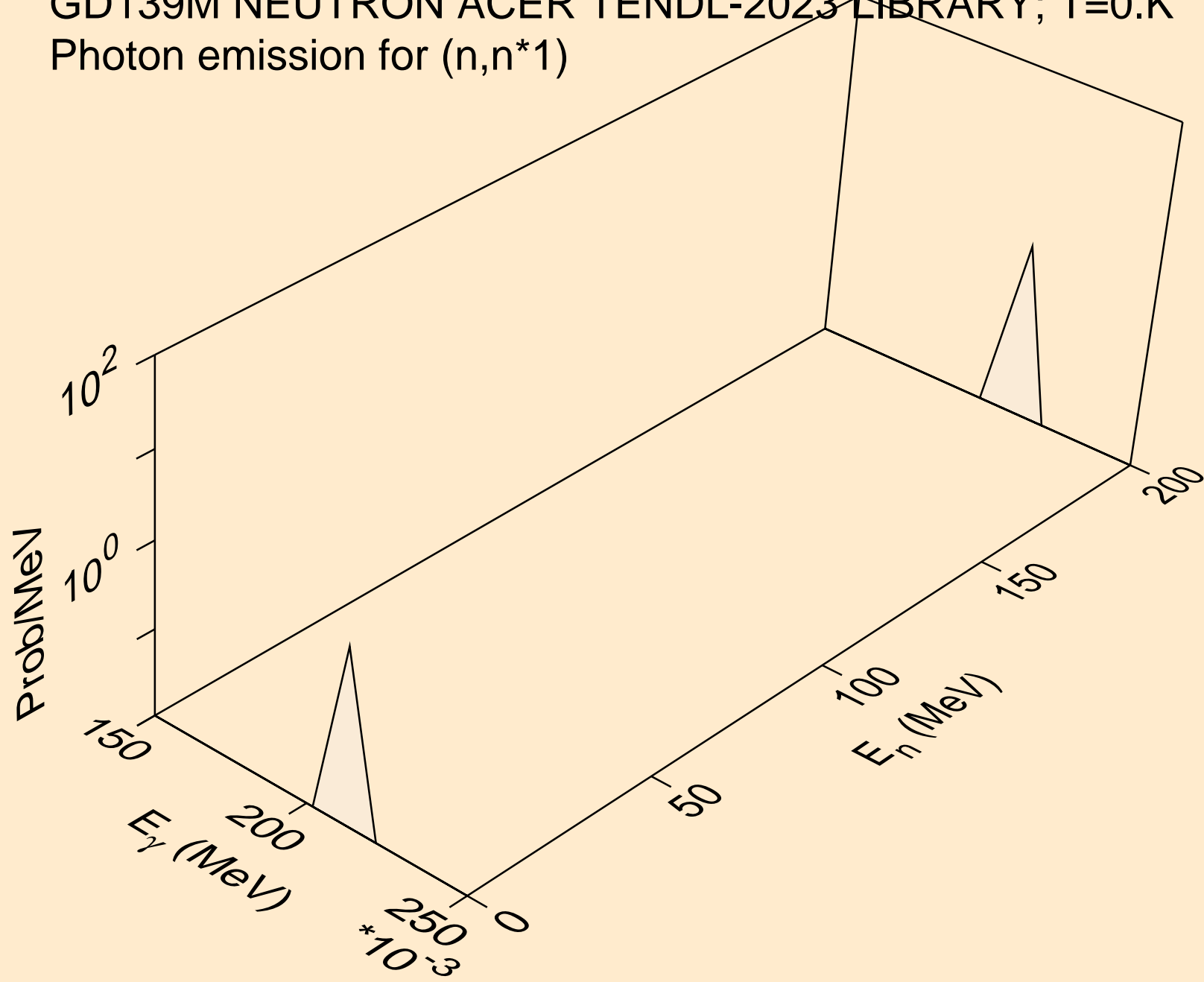
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Photon emission for (n,n2p)



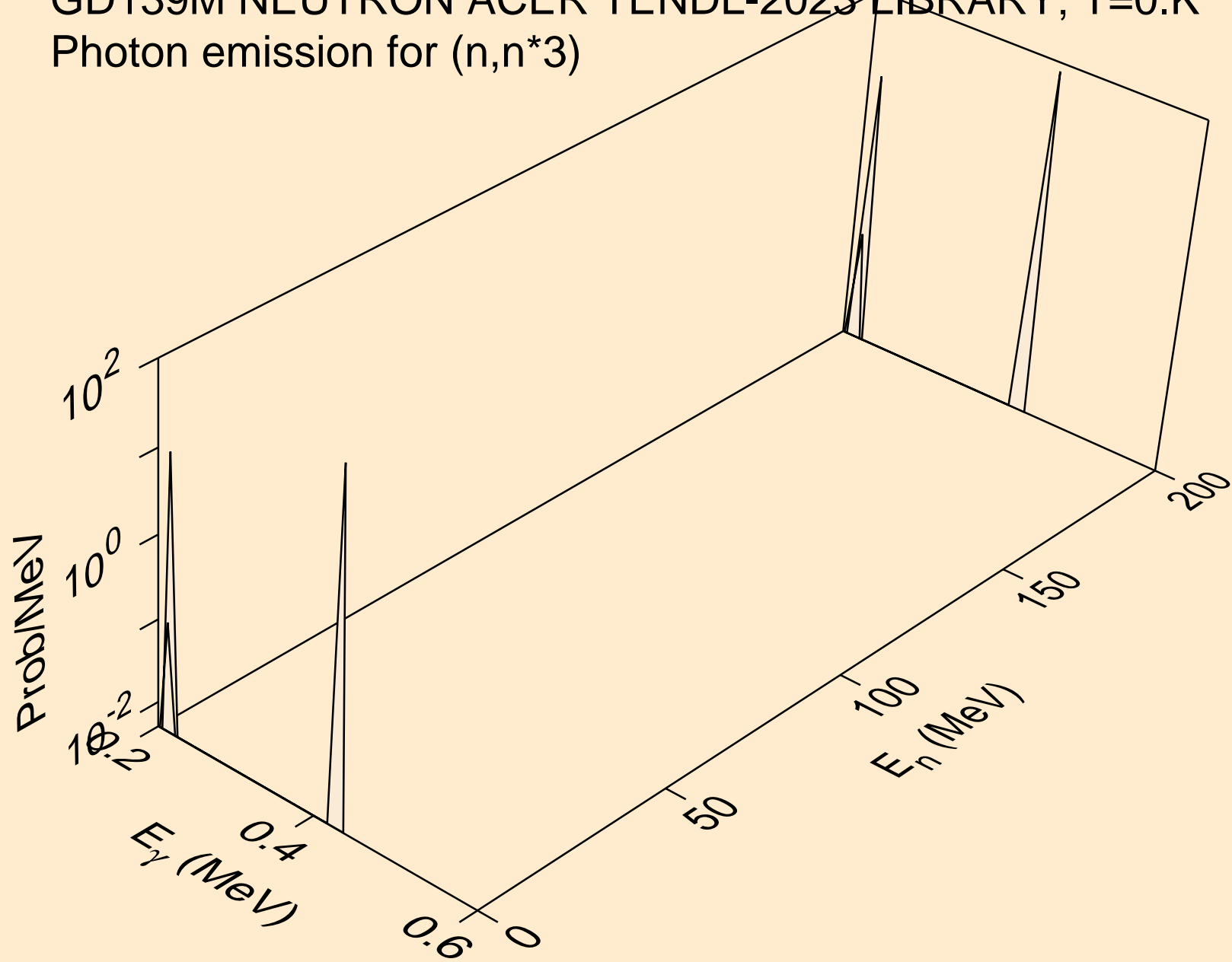
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Photon emission for (n,npa)



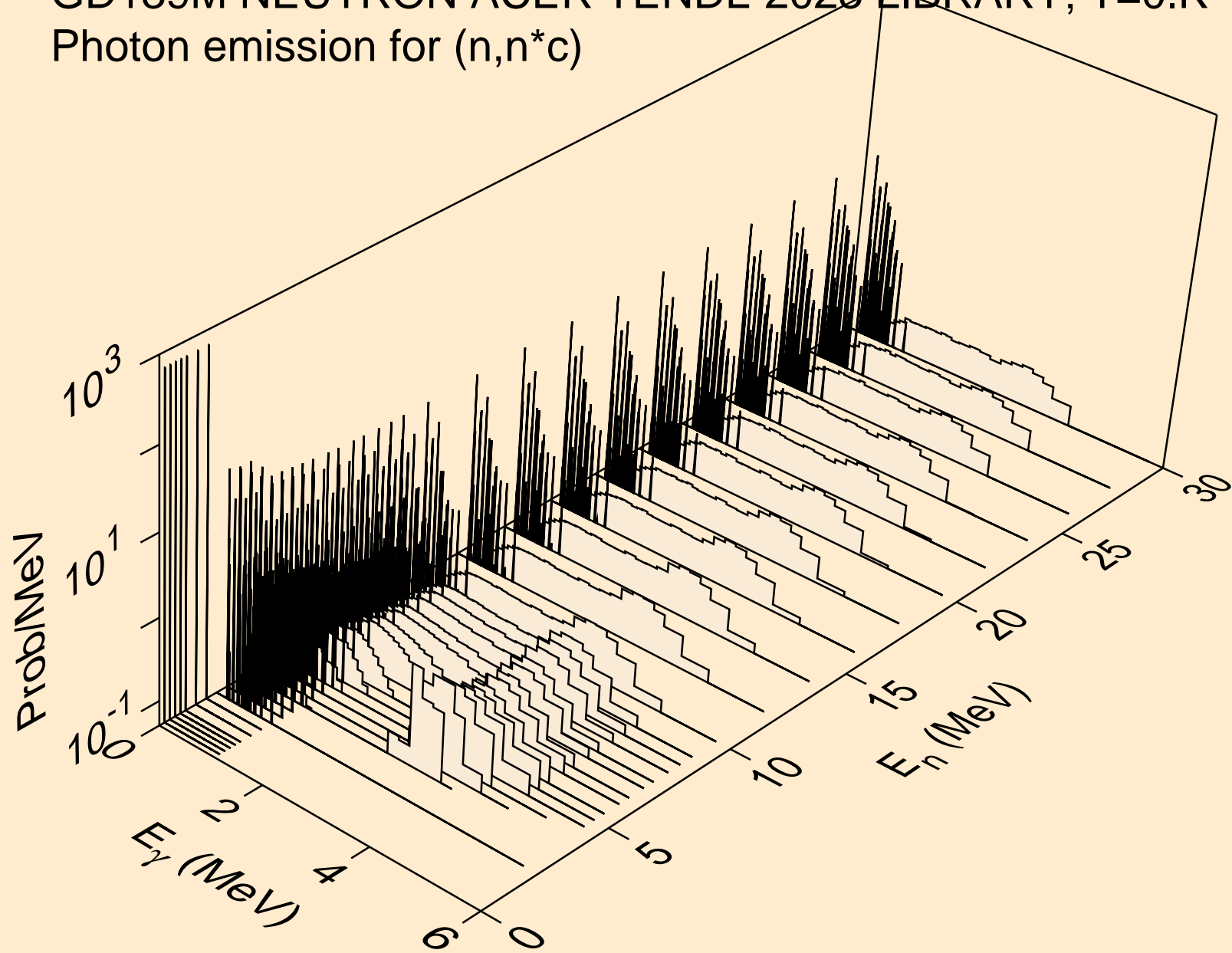
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Photon emission for (n,n\*1)



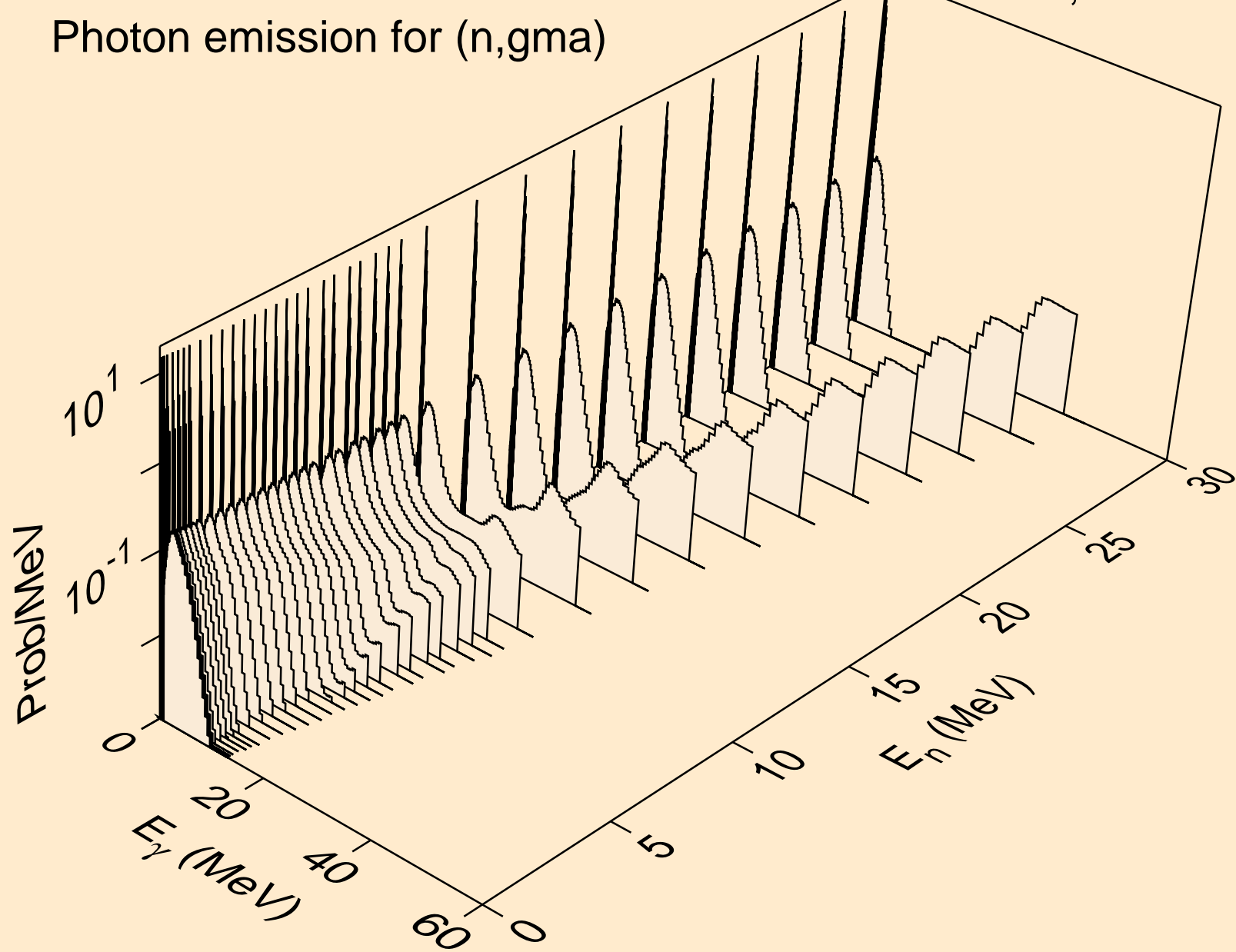
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Photon emission for (n,n\*3)



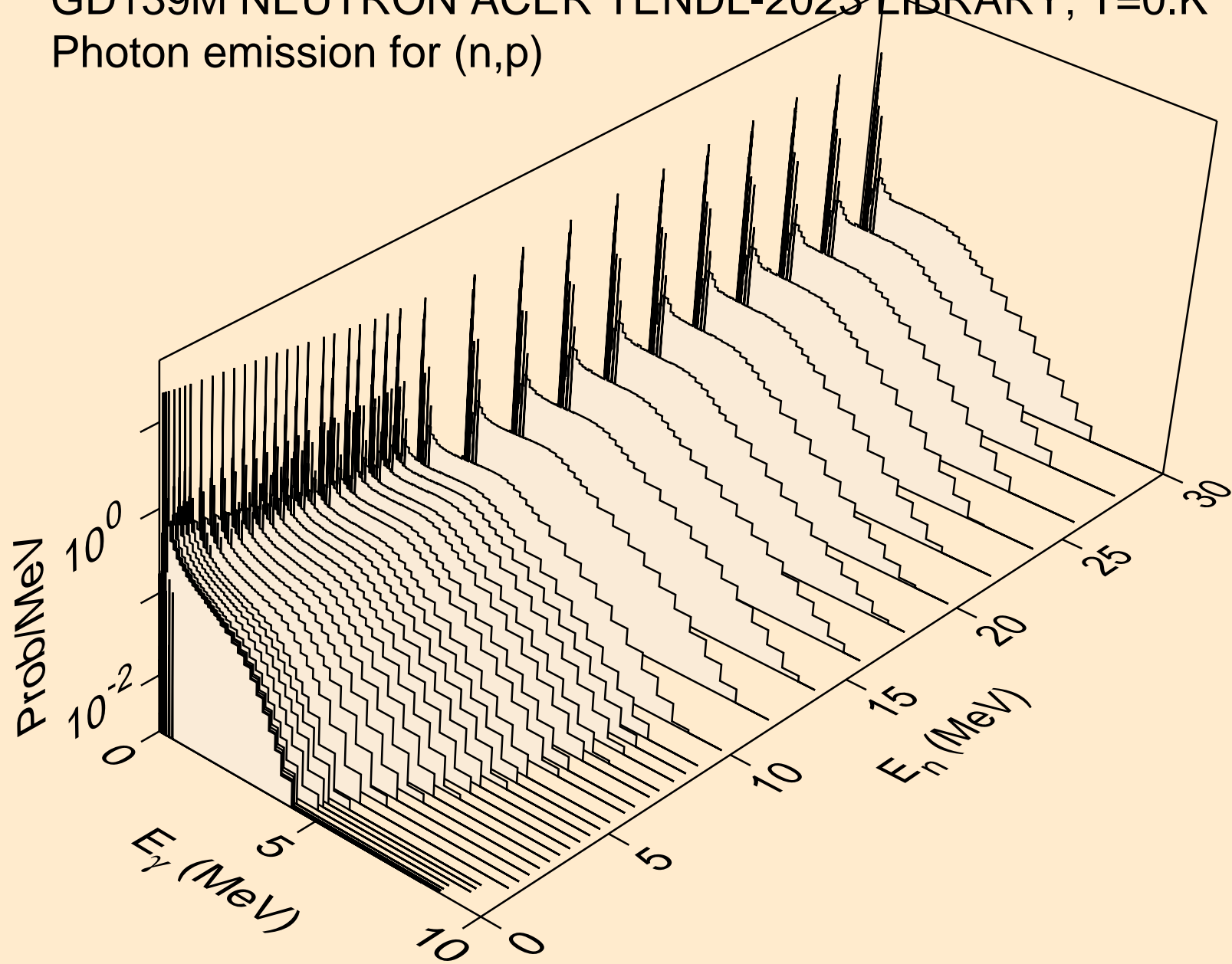
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Photon emission for (n,n\*c)



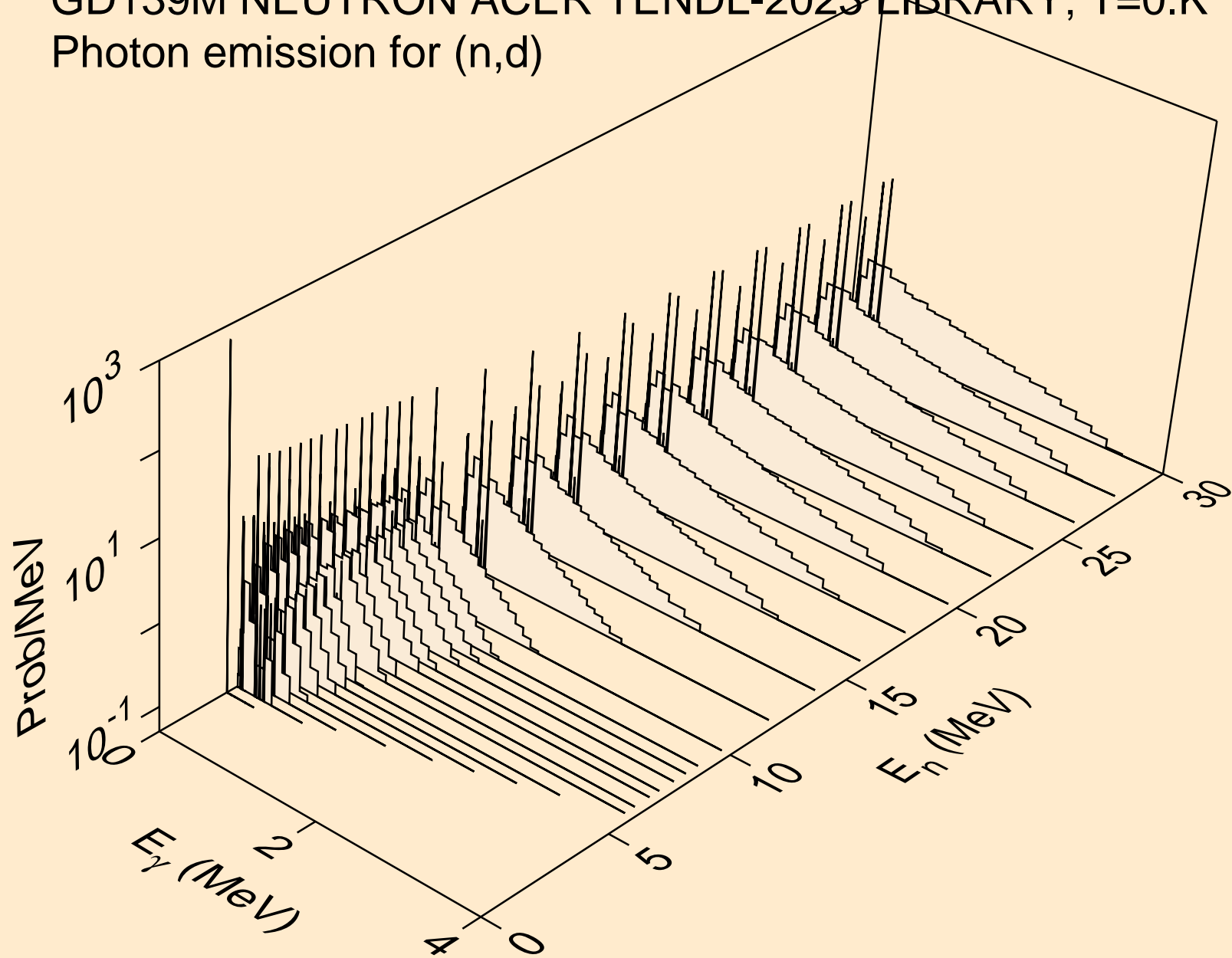
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Photon emission for (n,gma)



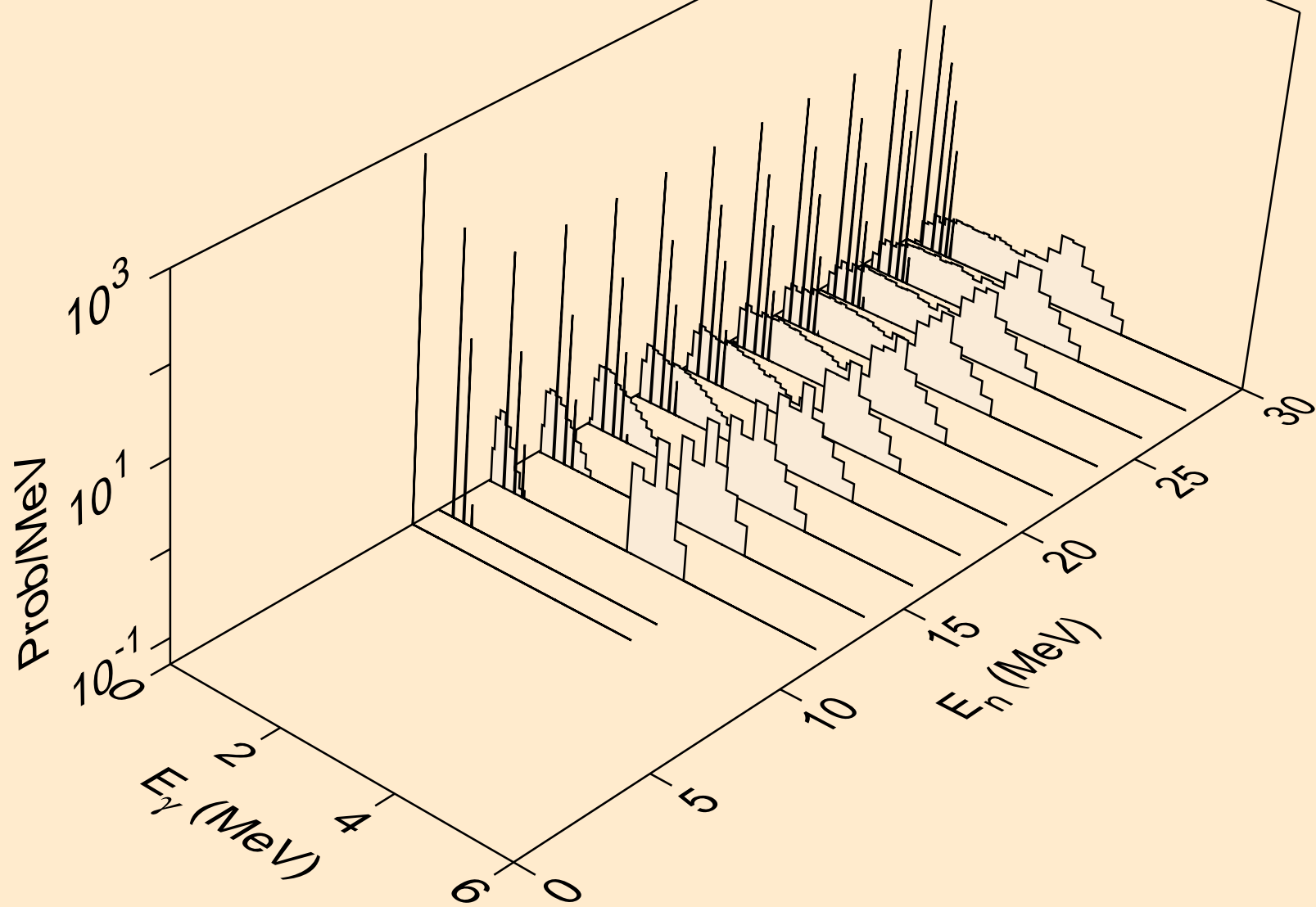
GD139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,p)



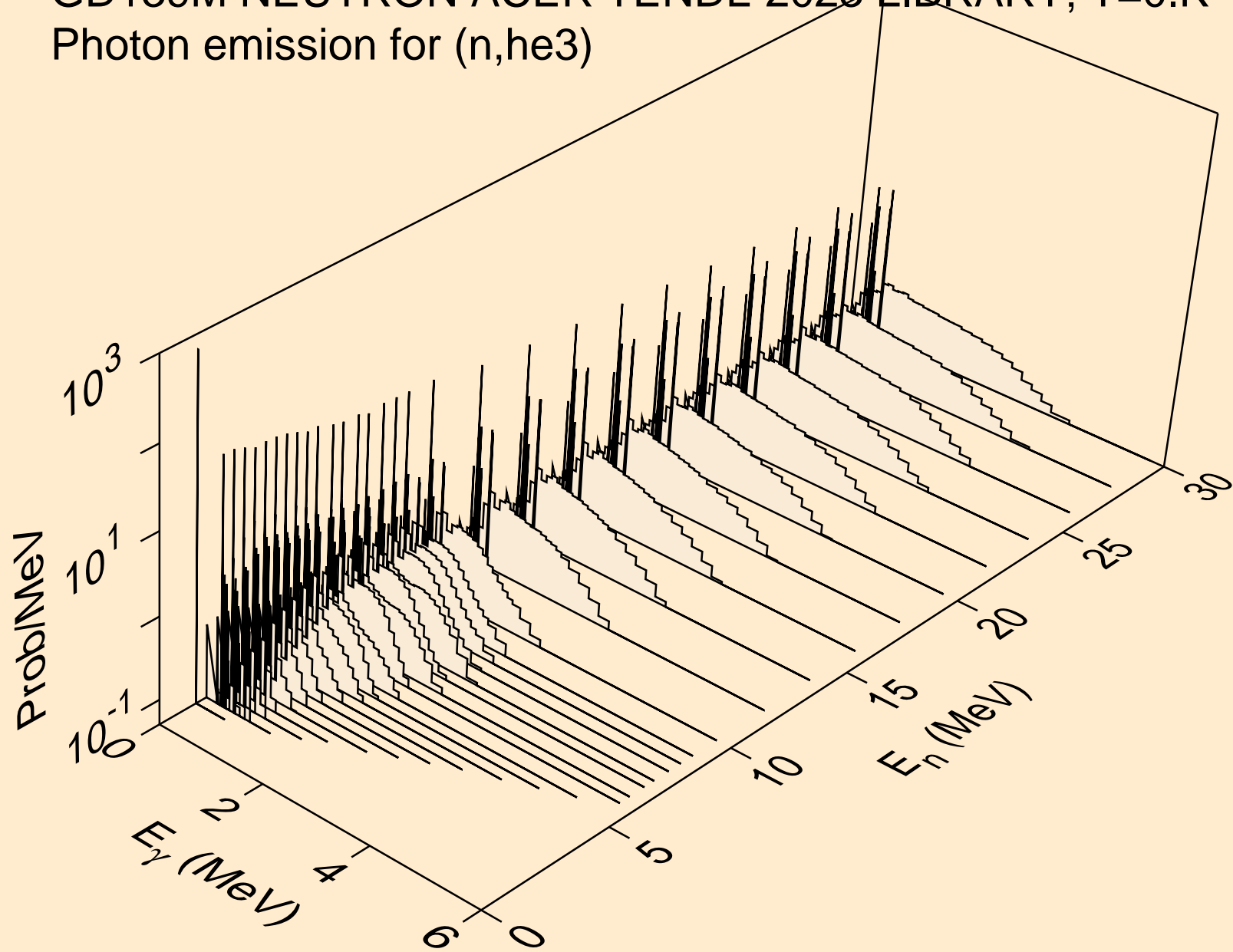
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Photon emission for (n,d)



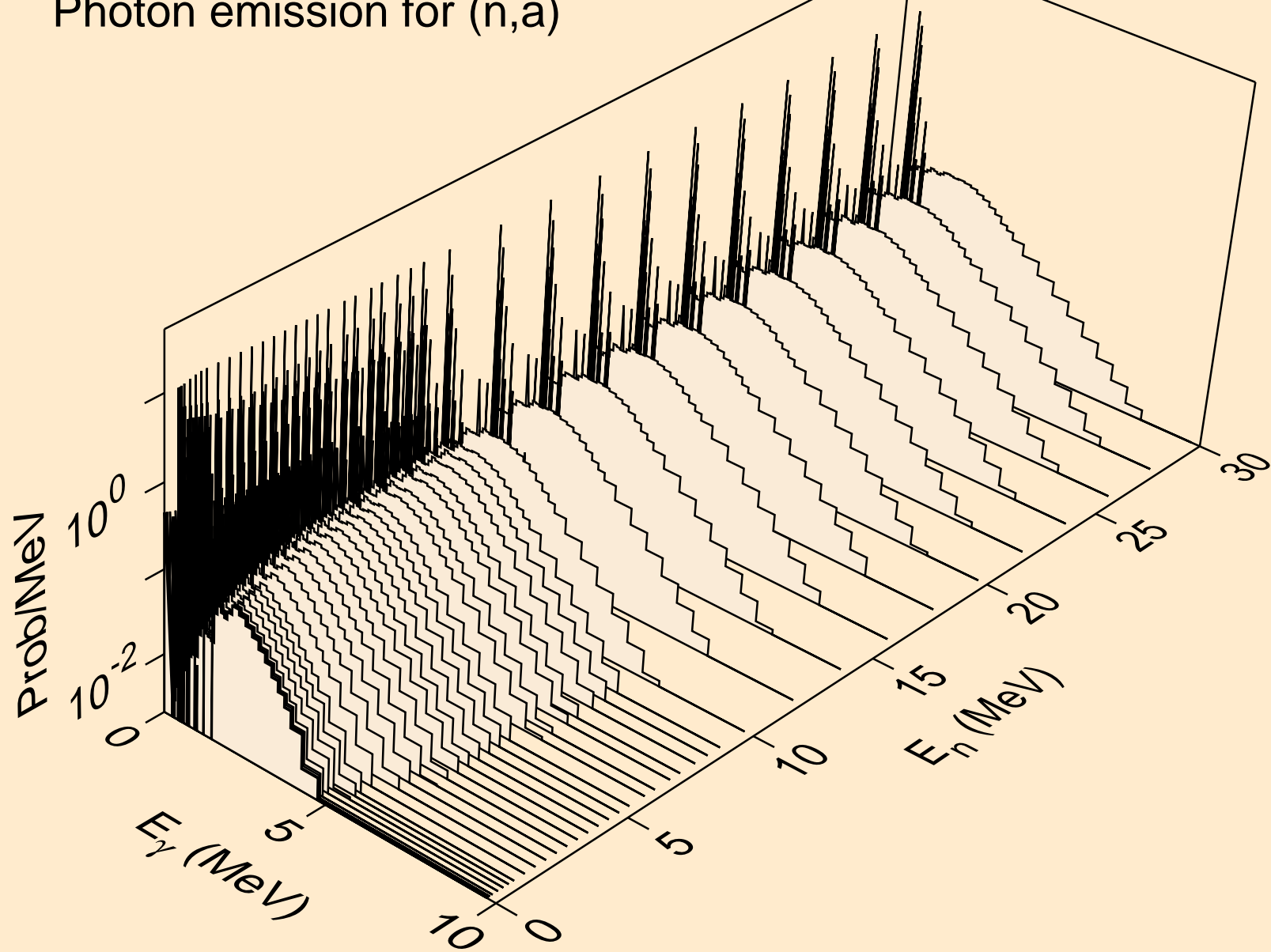
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Photon emission for (n,t)



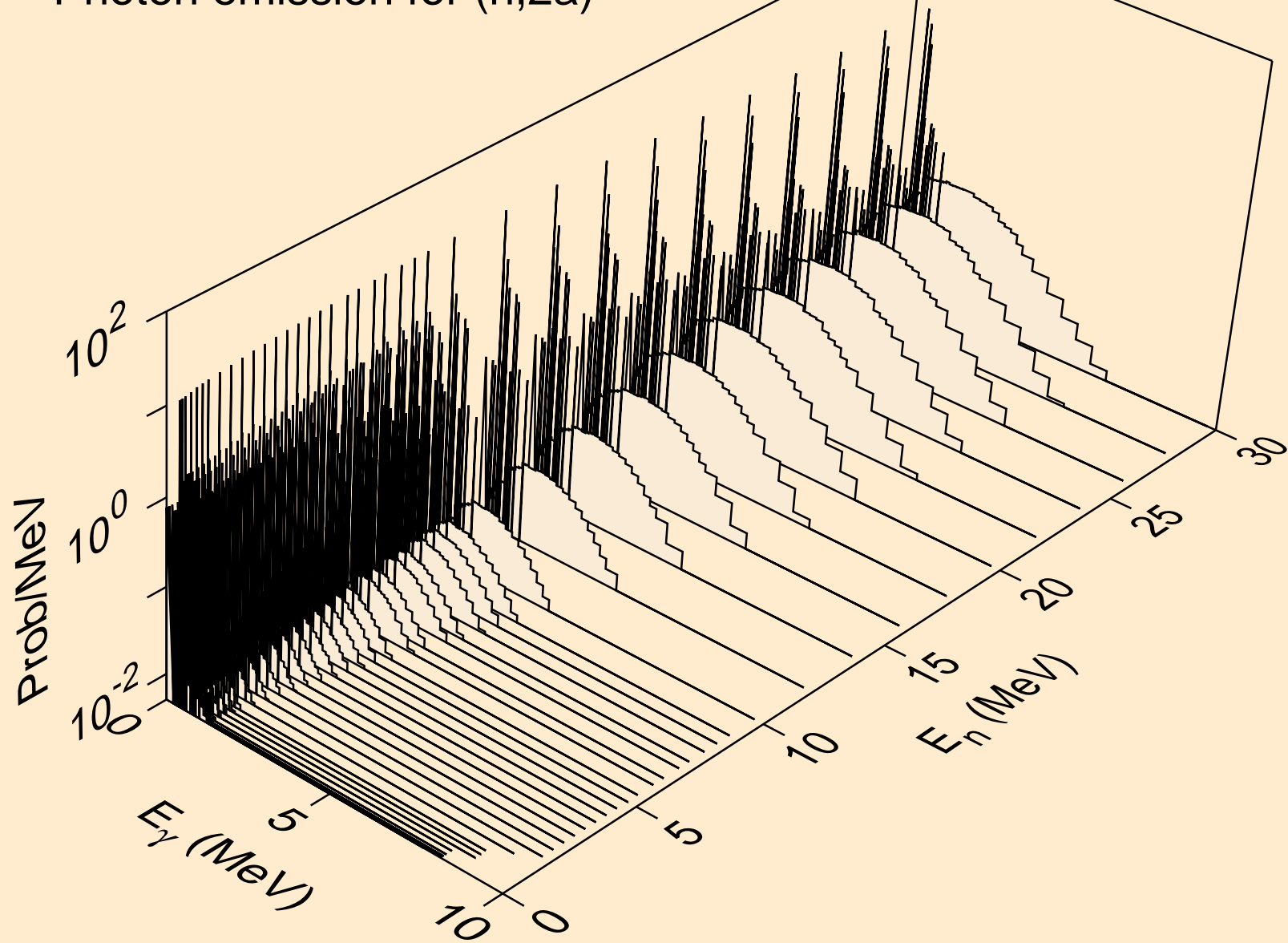
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Photon emission for (n,he3)



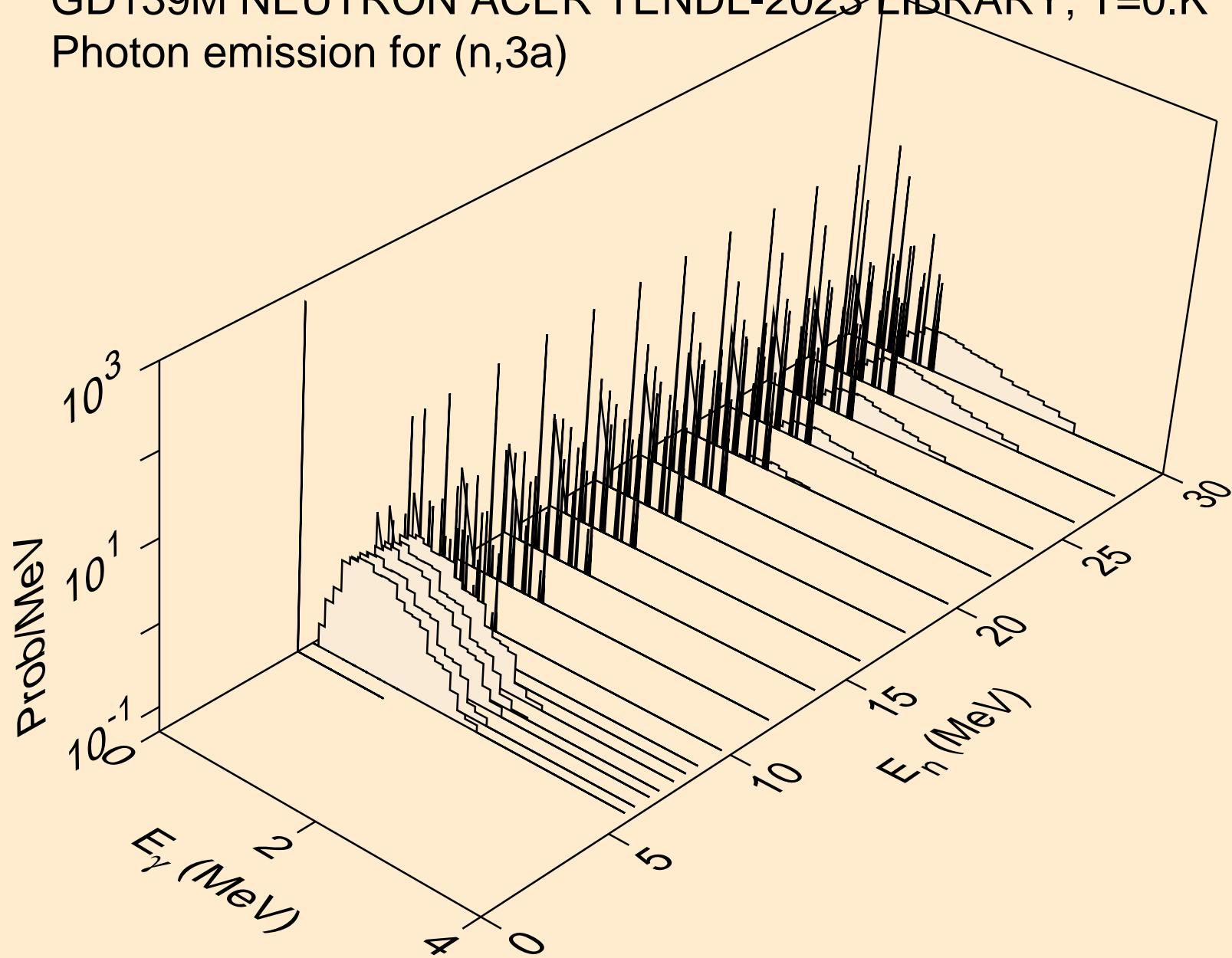
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Photon emission for (n,a)



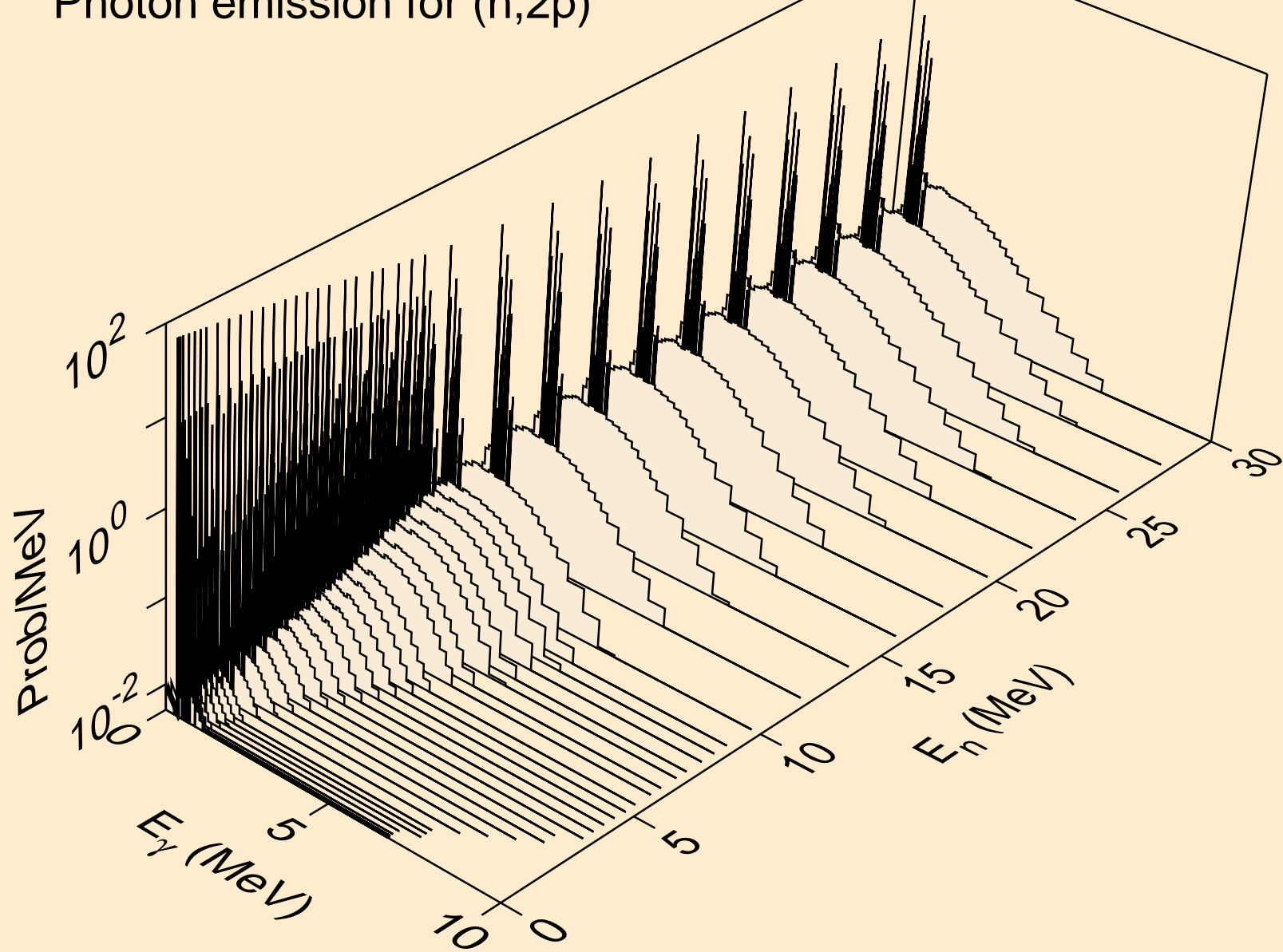
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Photon emission for (n,2a)



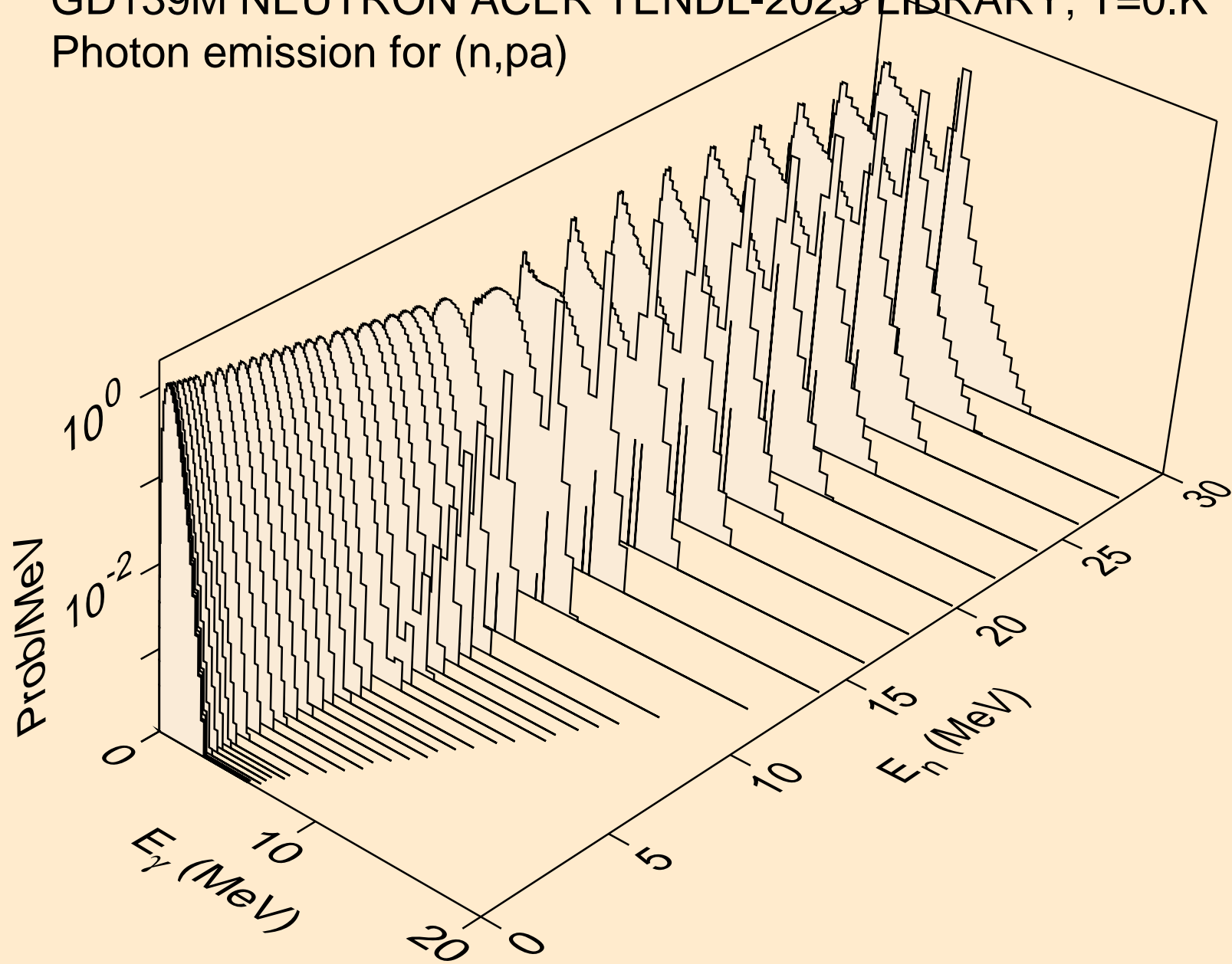
GD139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,3a)



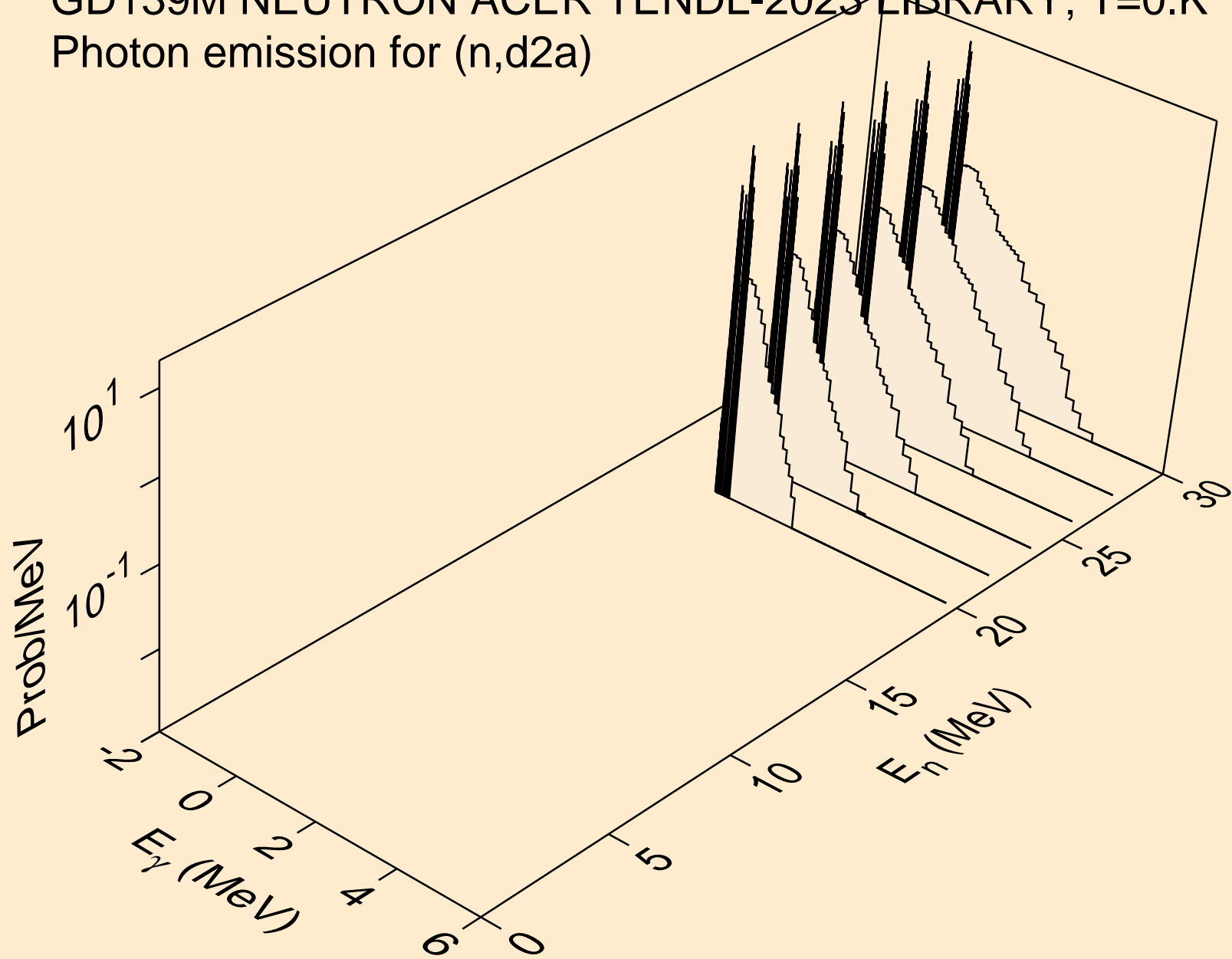
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Photon emission for (n,2p)



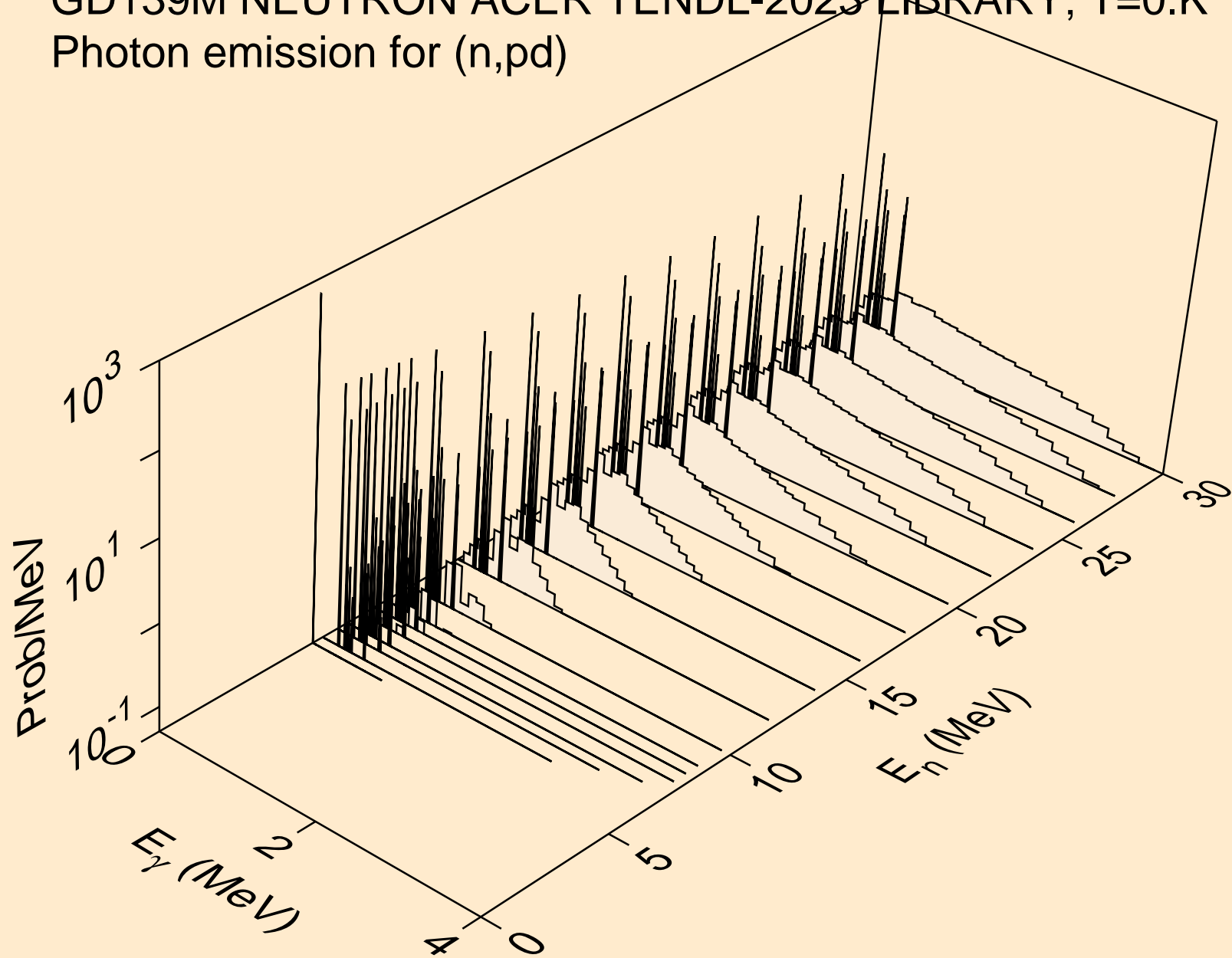
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Photon emission for (n,p $\alpha$ )



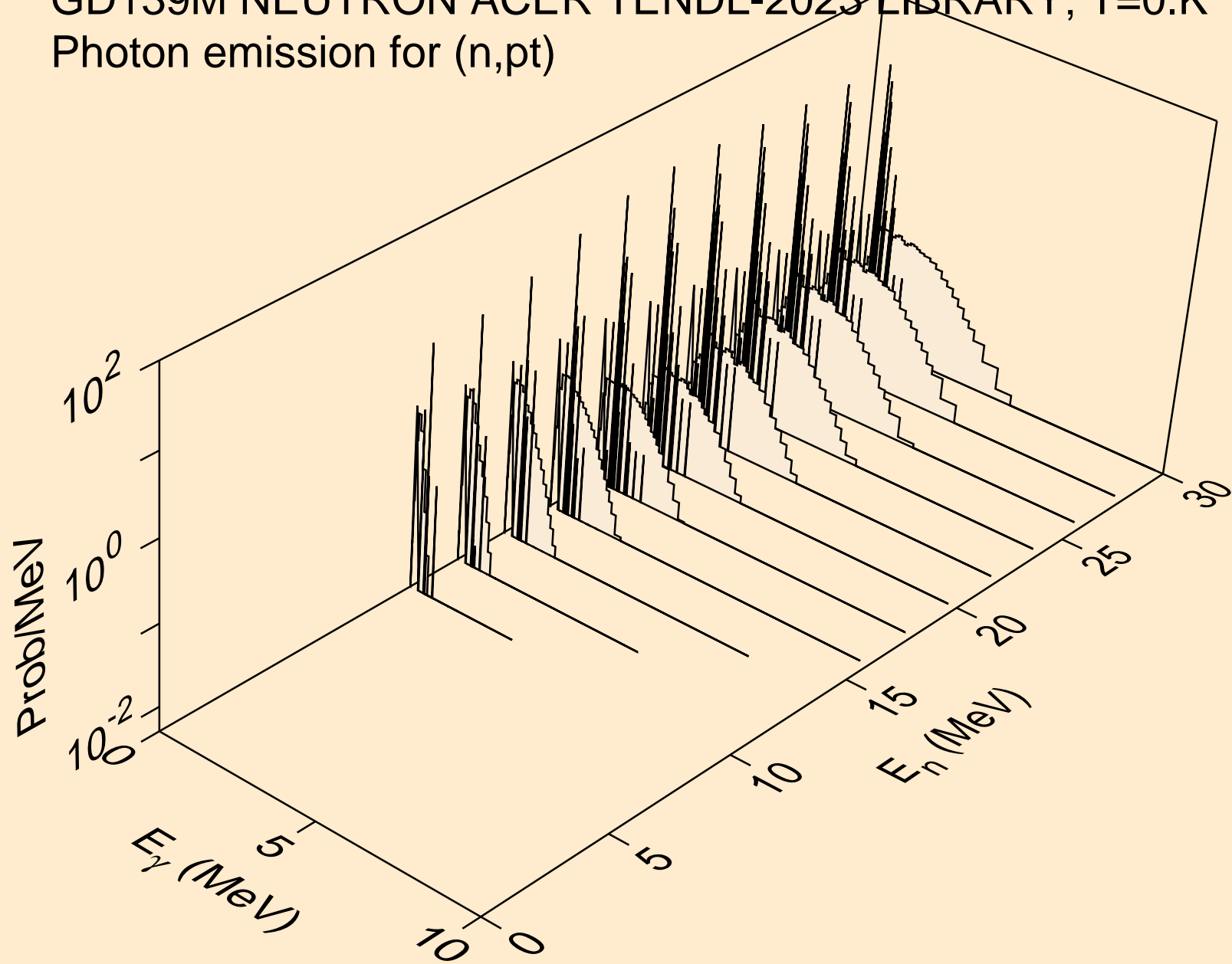
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Photon emission for (n,d2a)



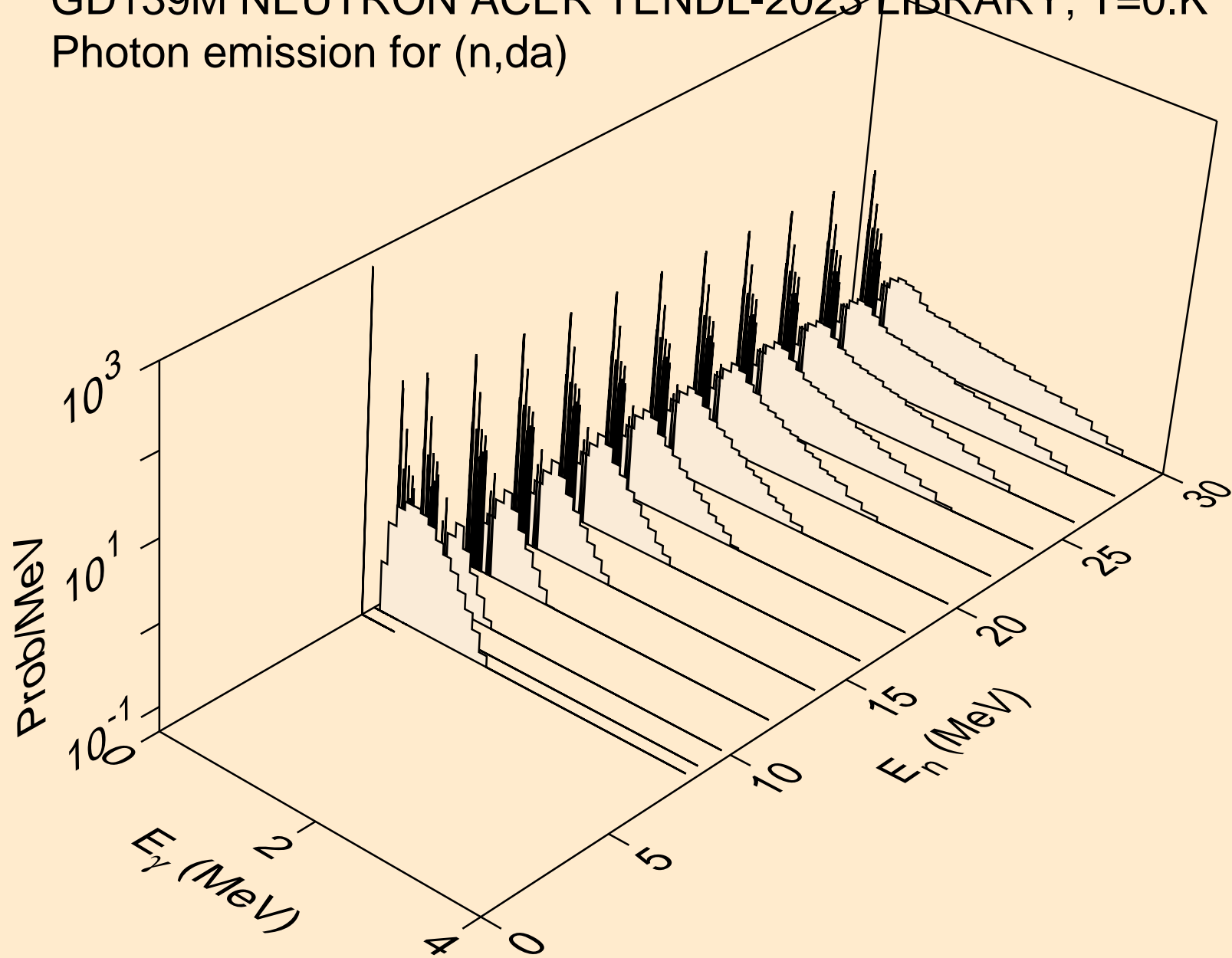
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Photon emission for (n,pd)



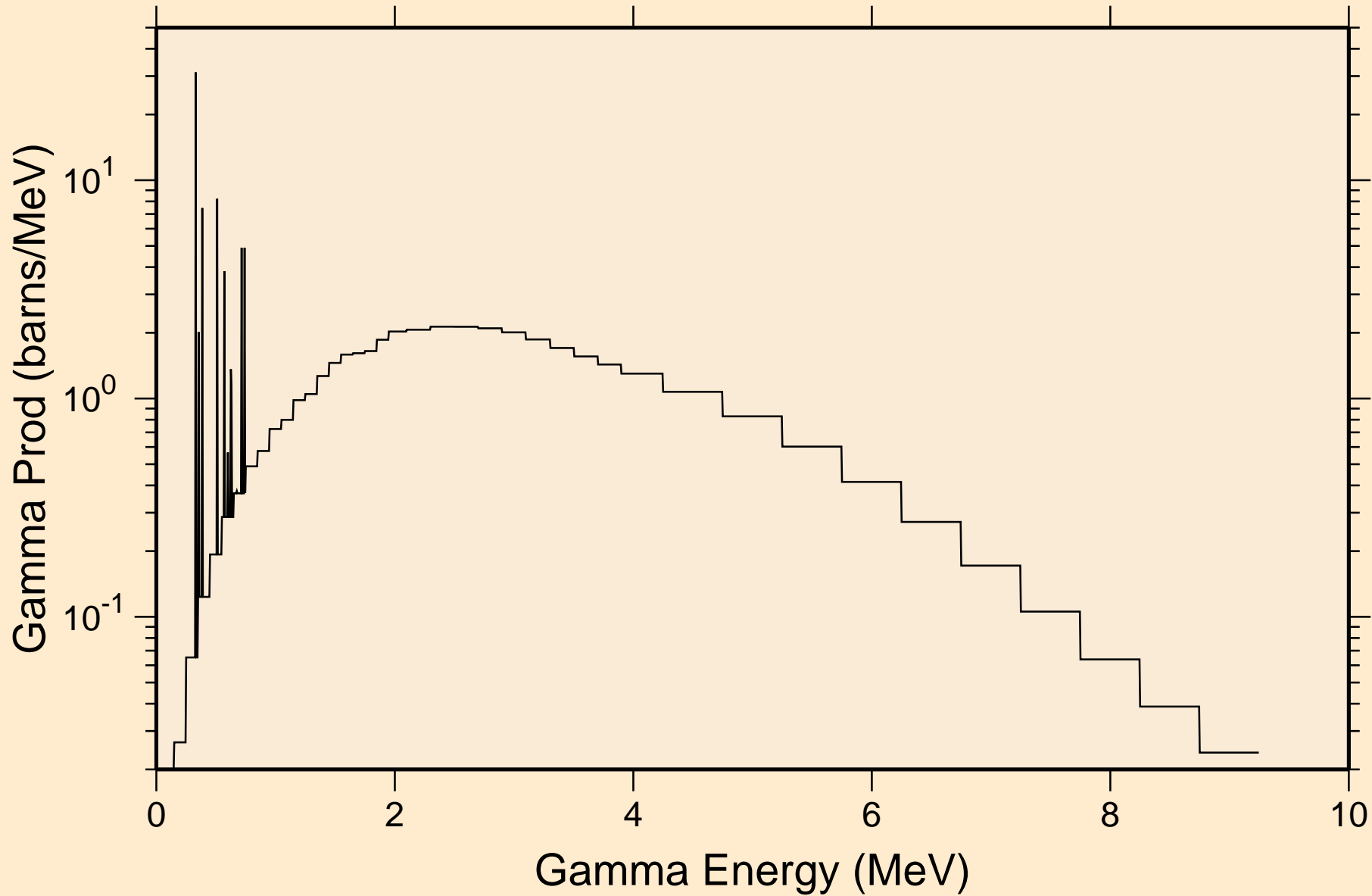
GD139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,pt)



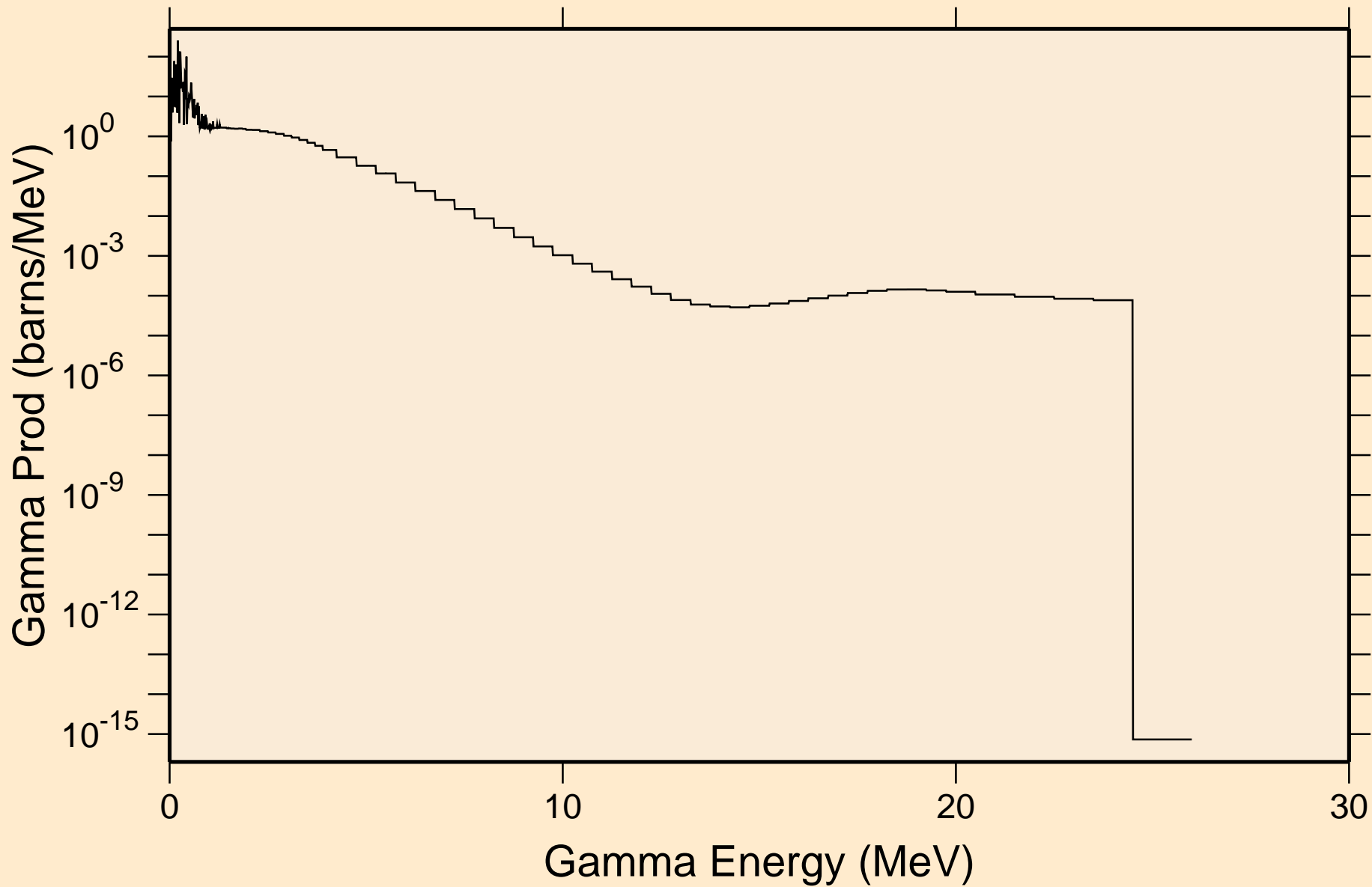
GD139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,da)



GD139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
thermal capture photon spectrum

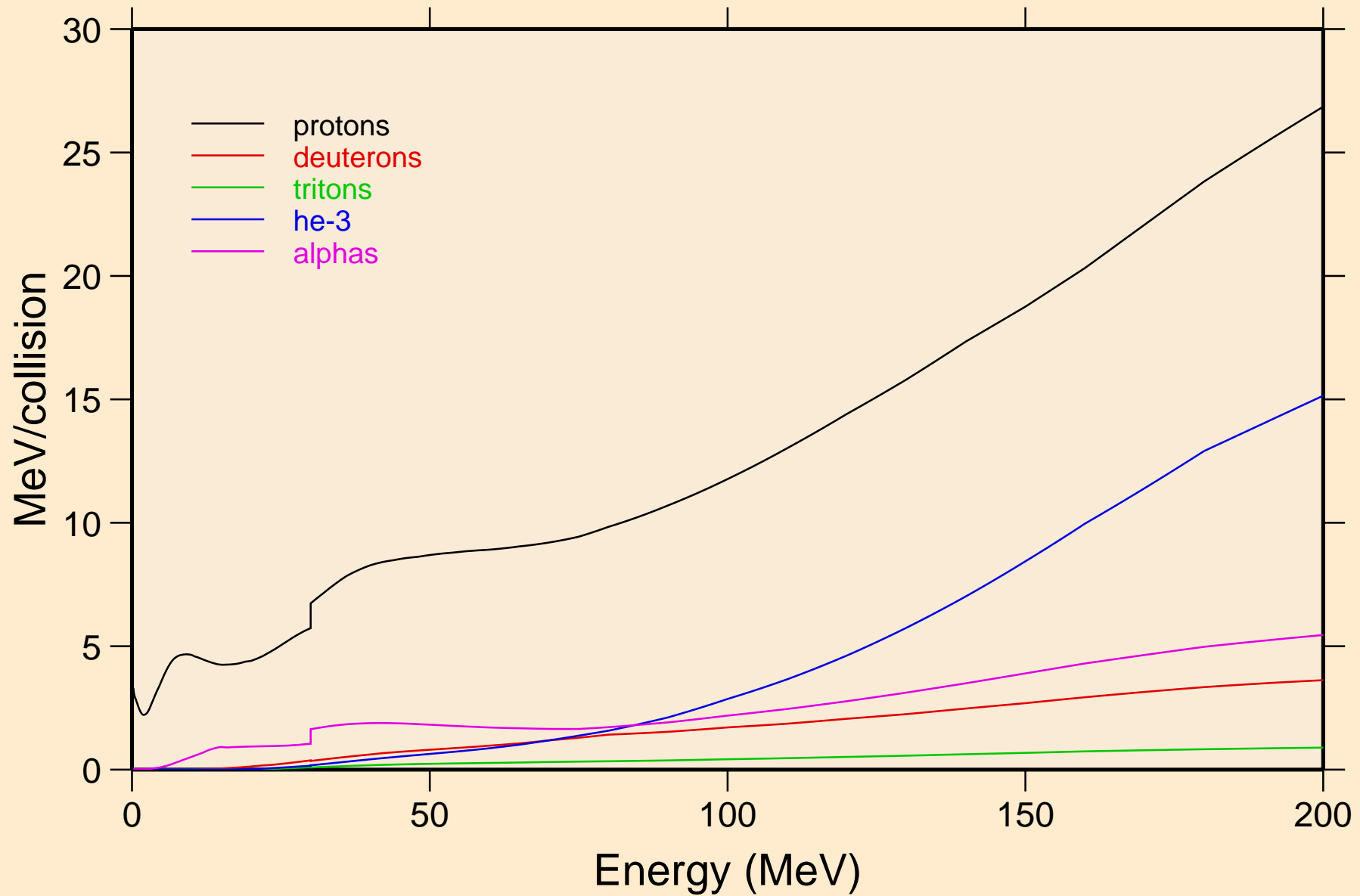


GD139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
14 MeV photon spectrum

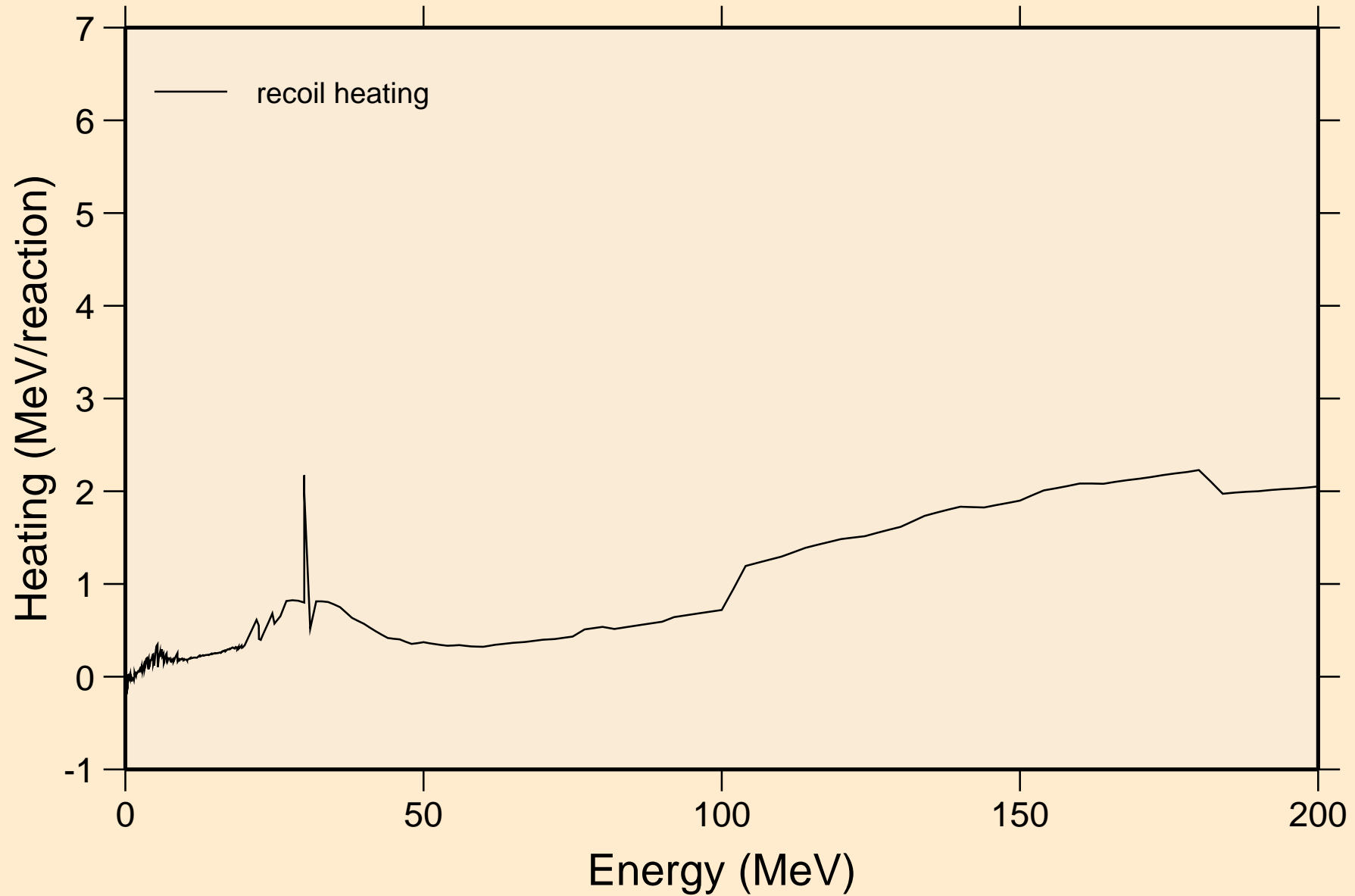


# GD139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

## Particle heating contributions

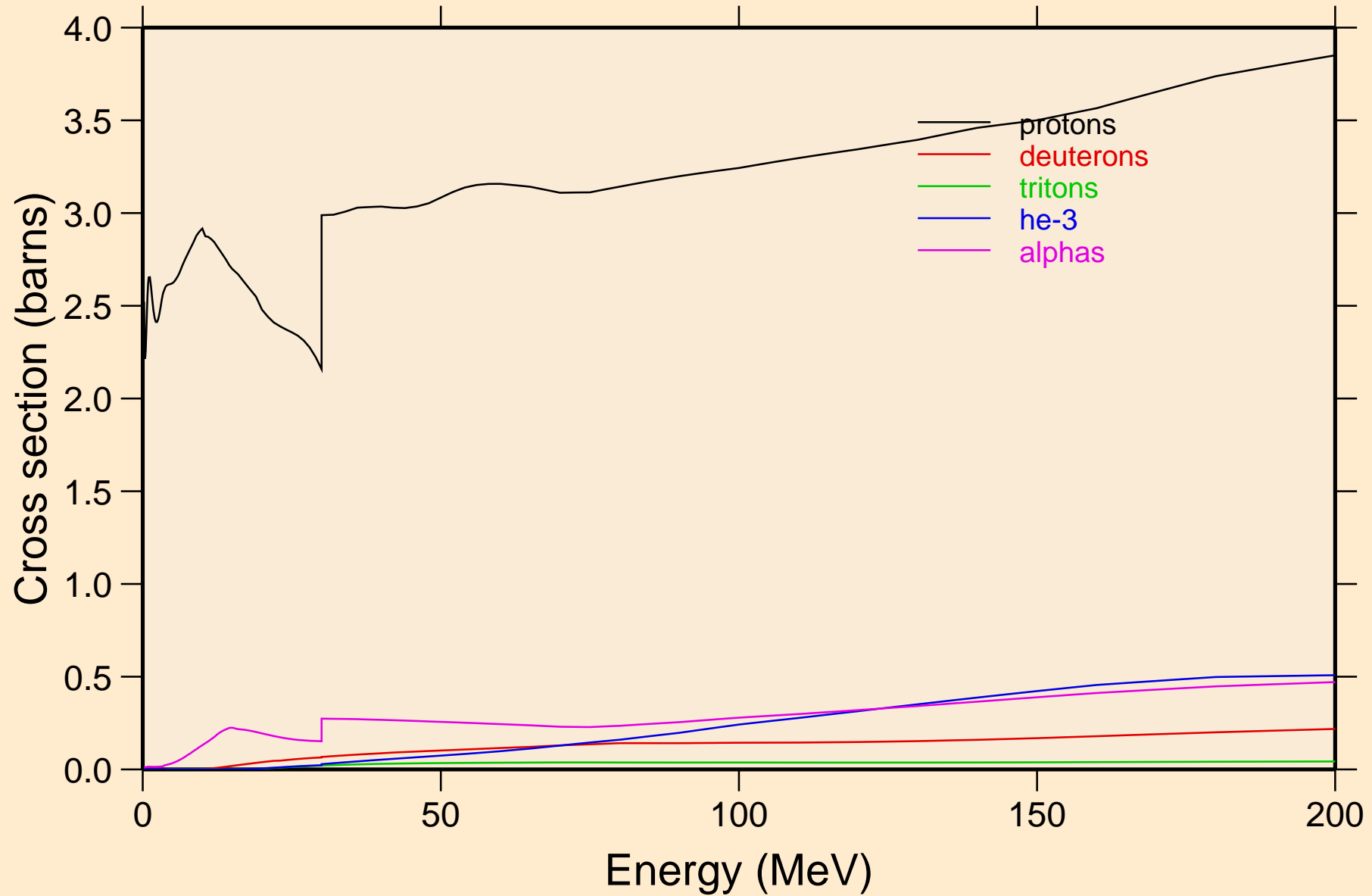


GD139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Recoil Heating

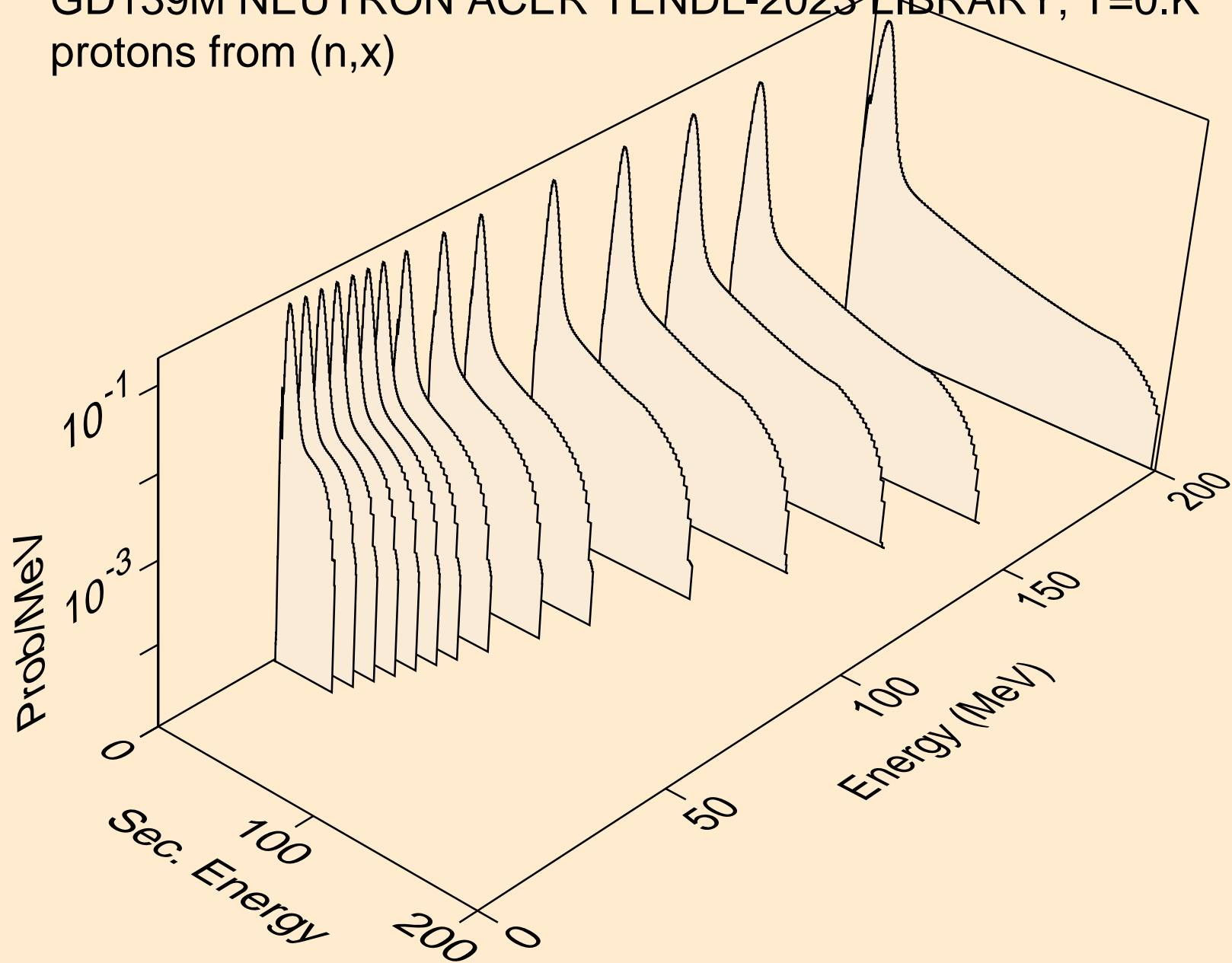


# GD139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

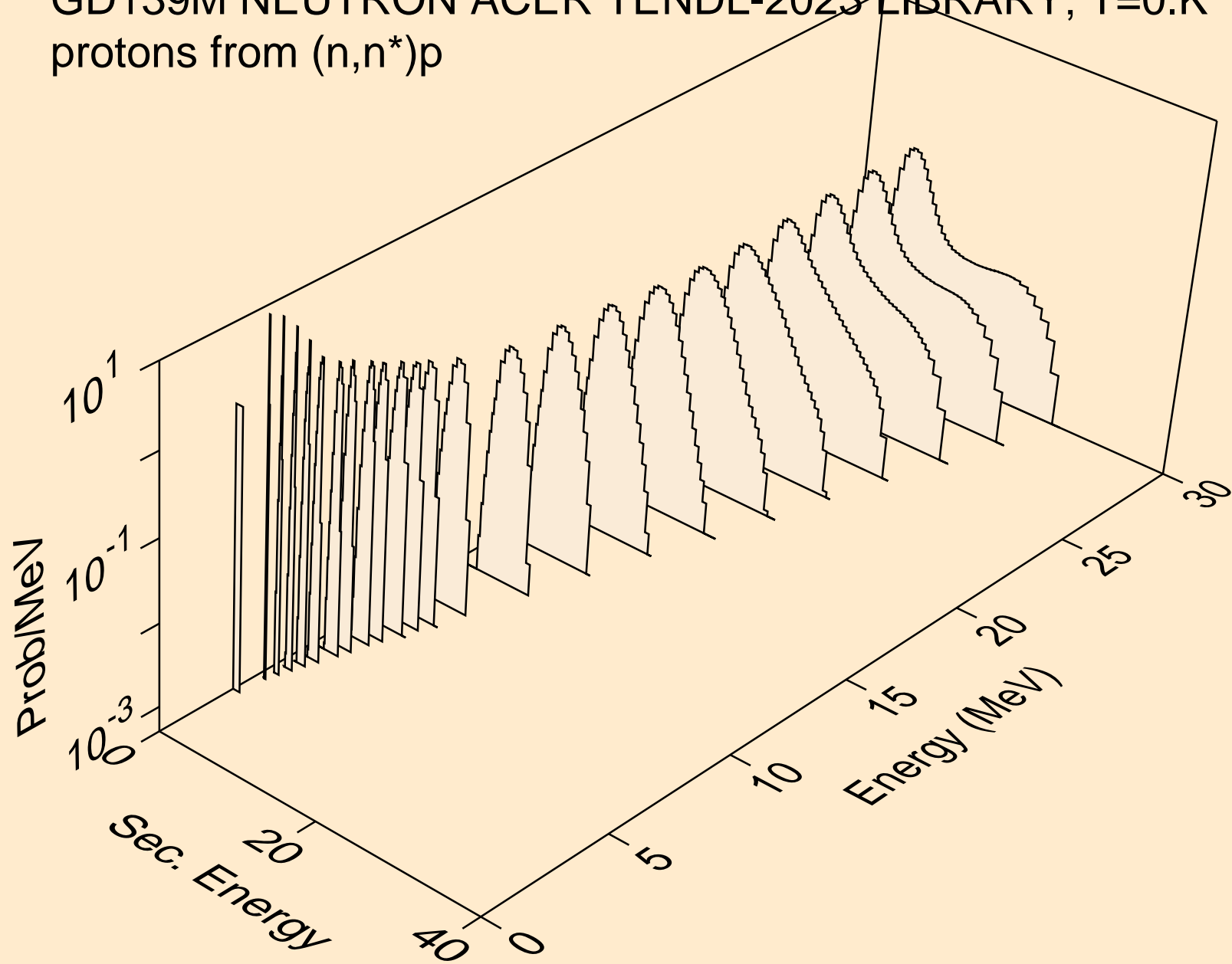
## Particle production cross sections



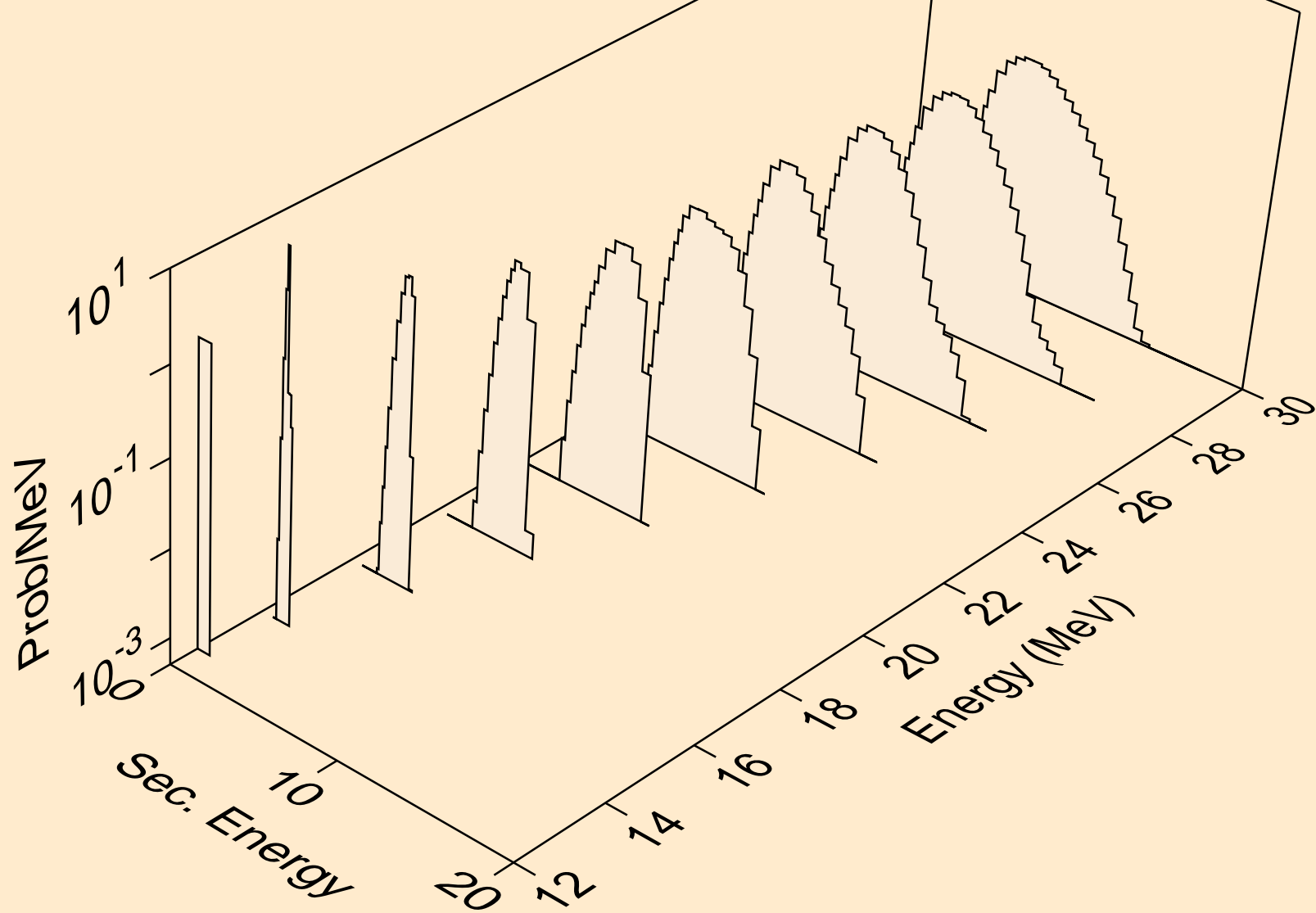
GD139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
protons from (n,x)



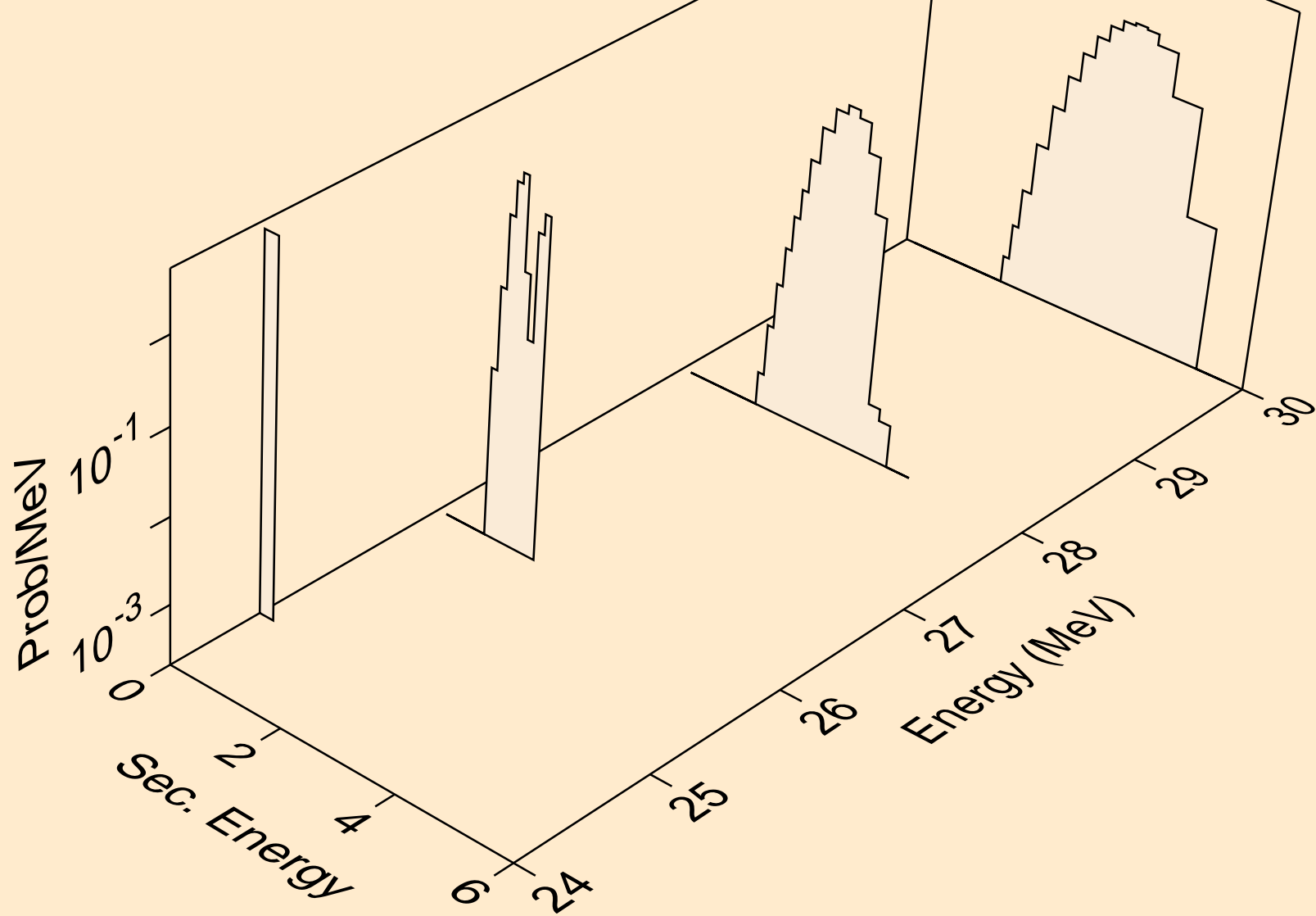
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protons from (n,n\*)p



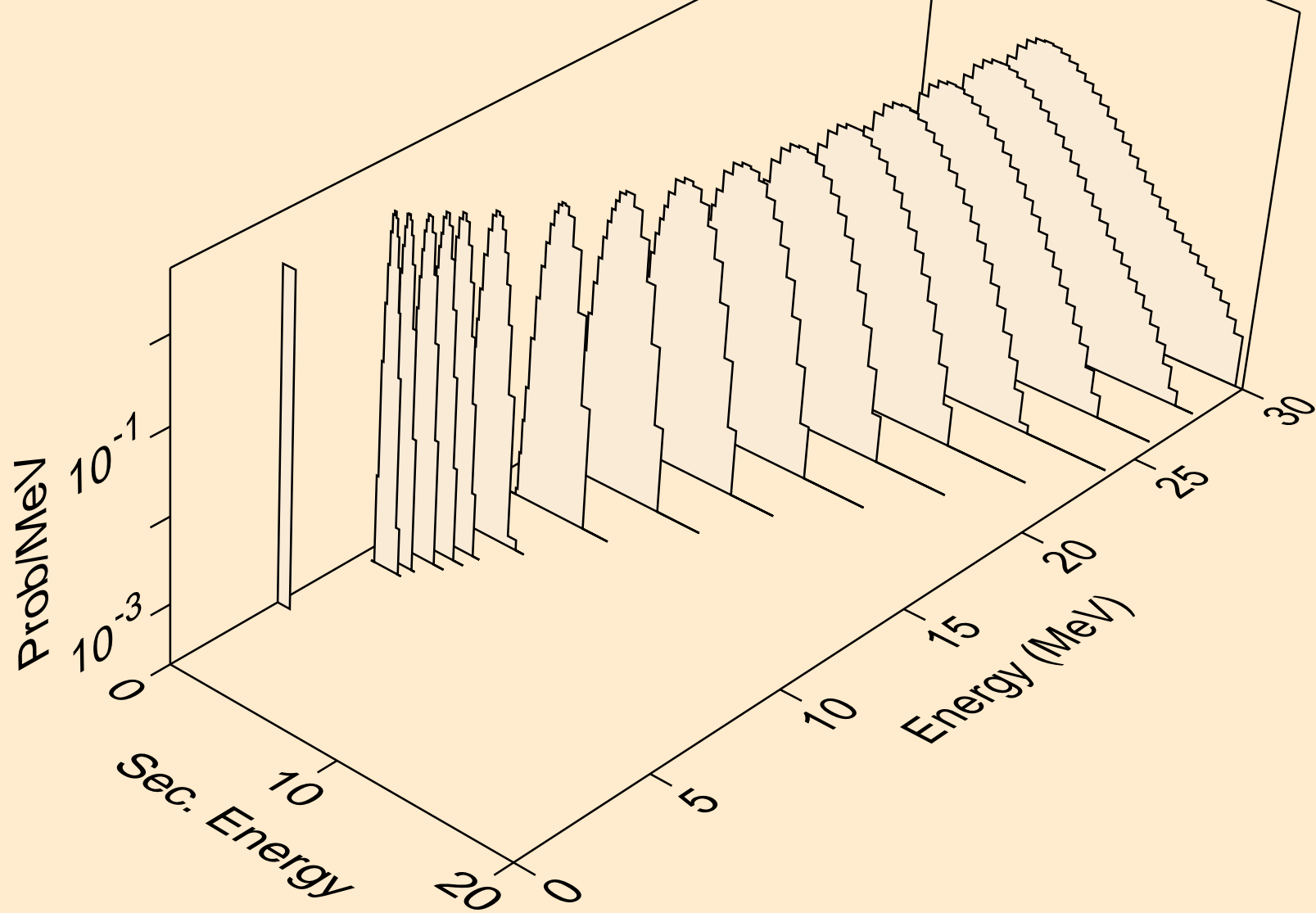
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protons from (n,2np)



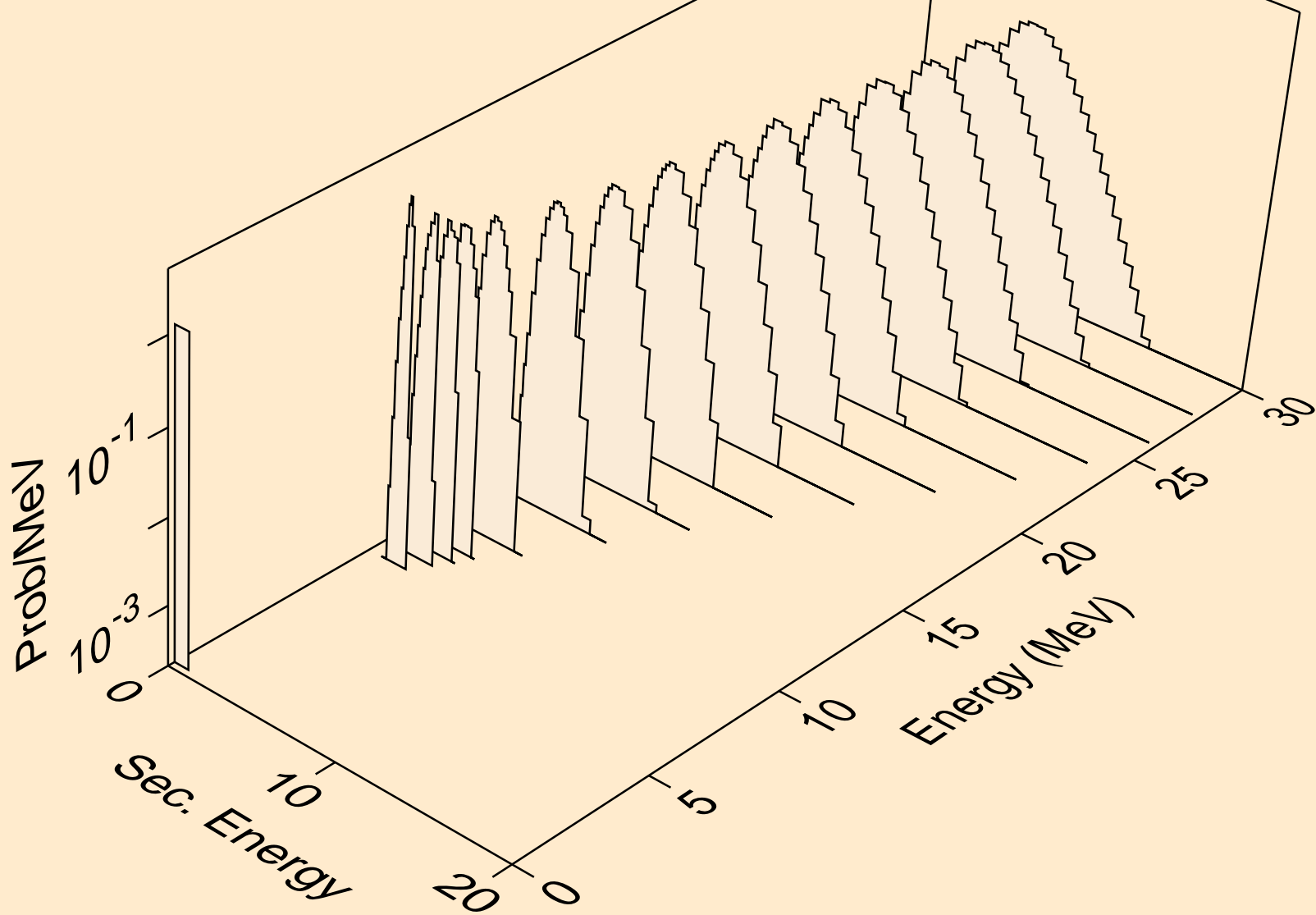
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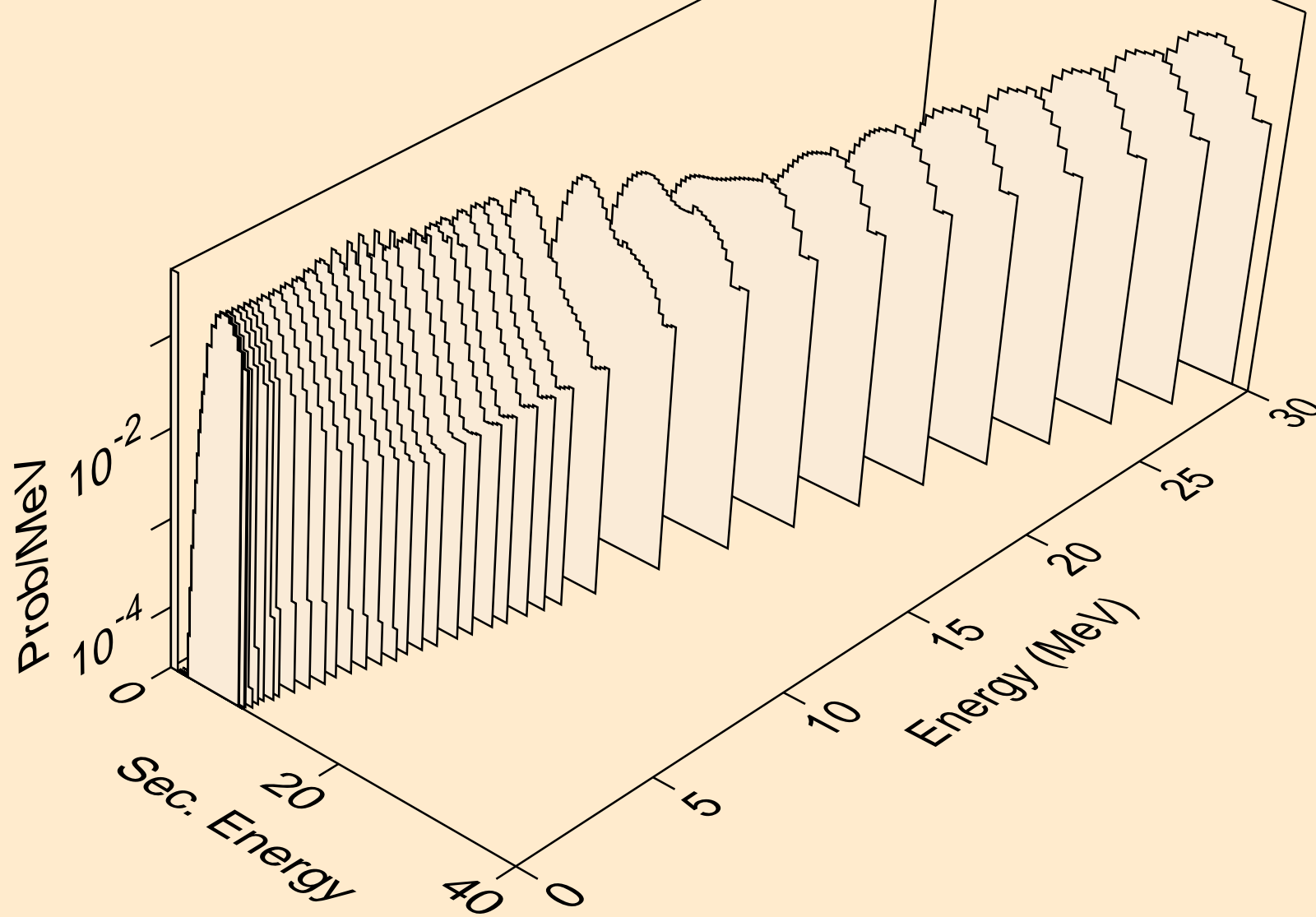
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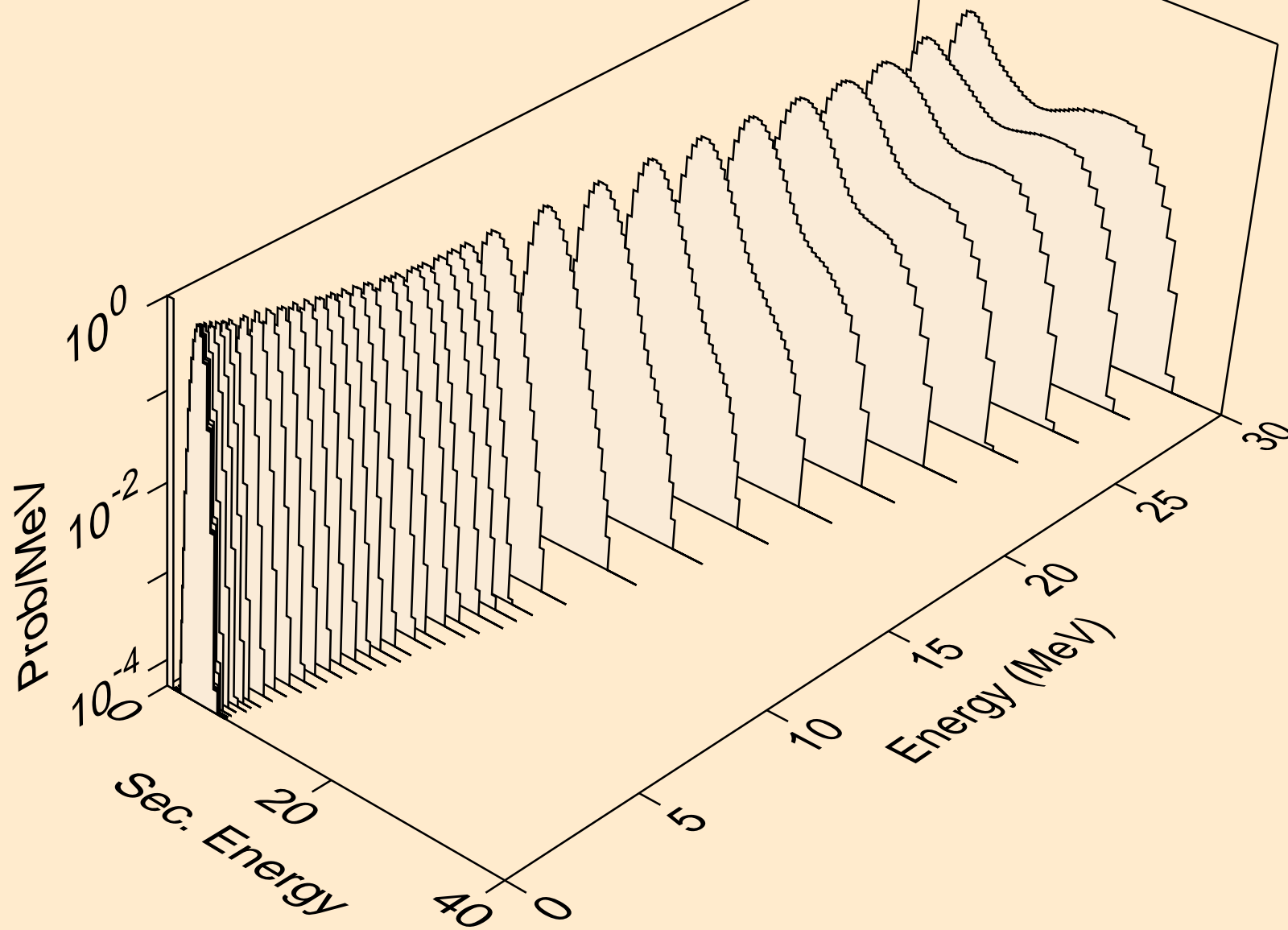
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protons from (n,npa)



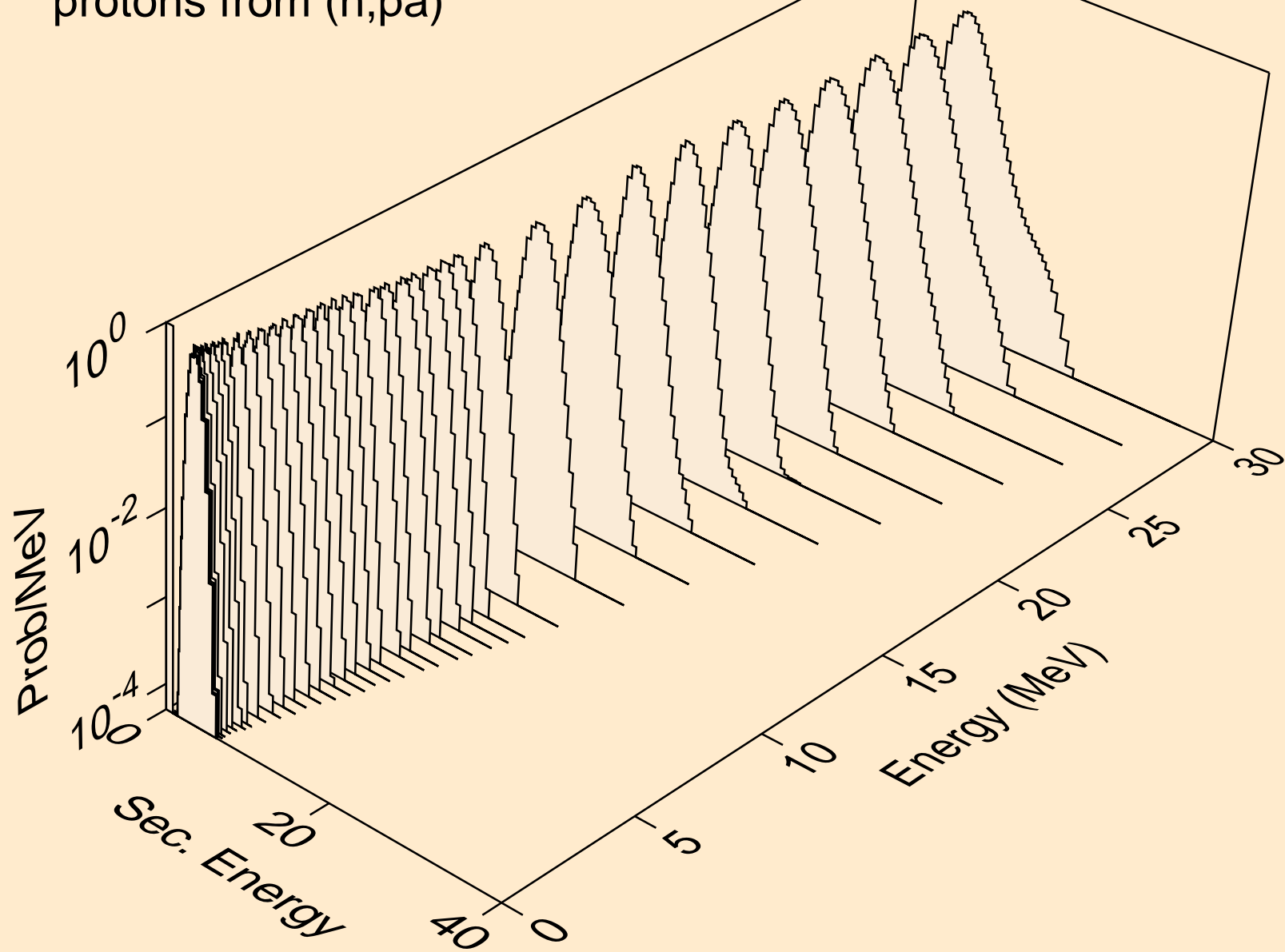
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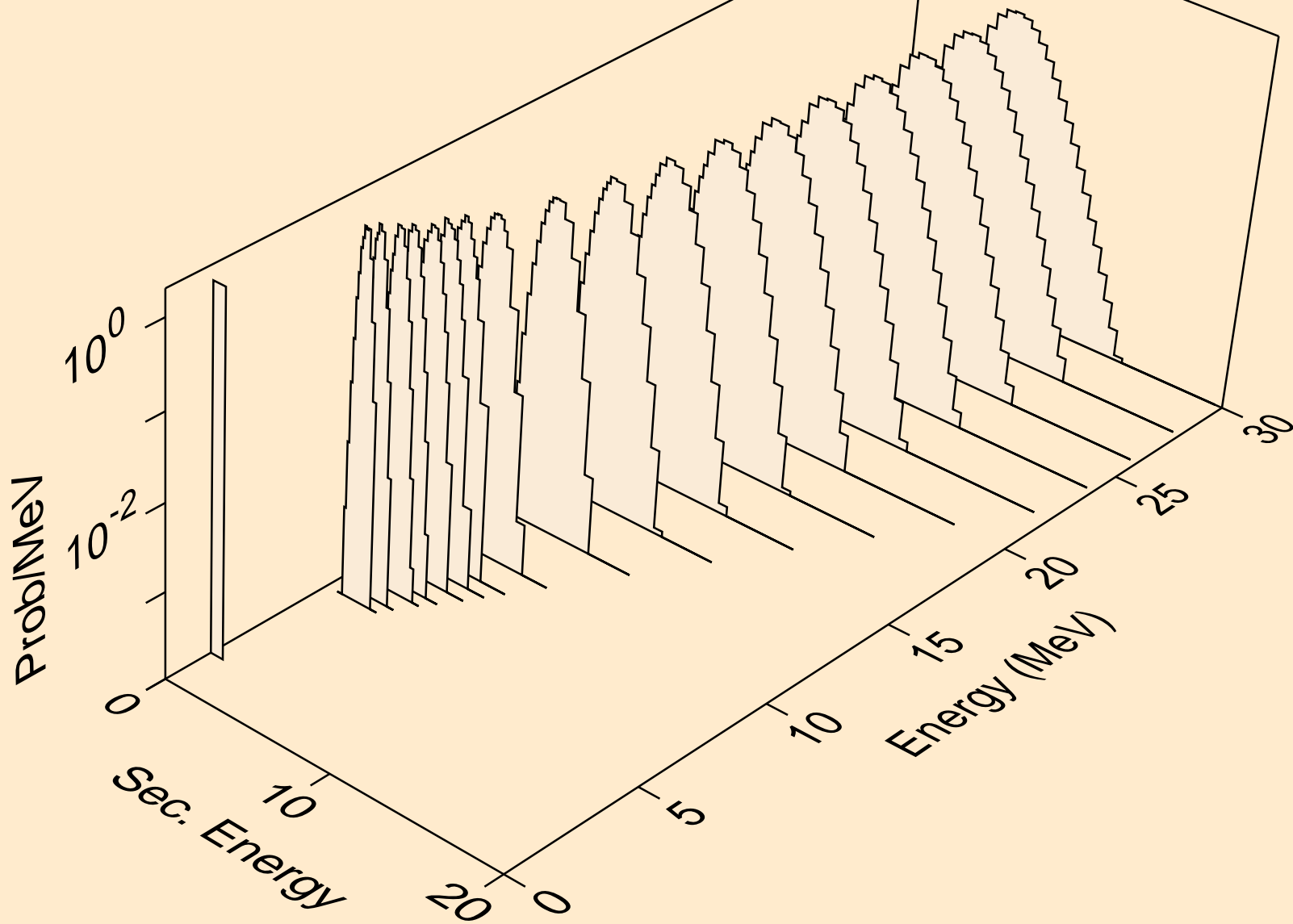
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protons from (n,2p)



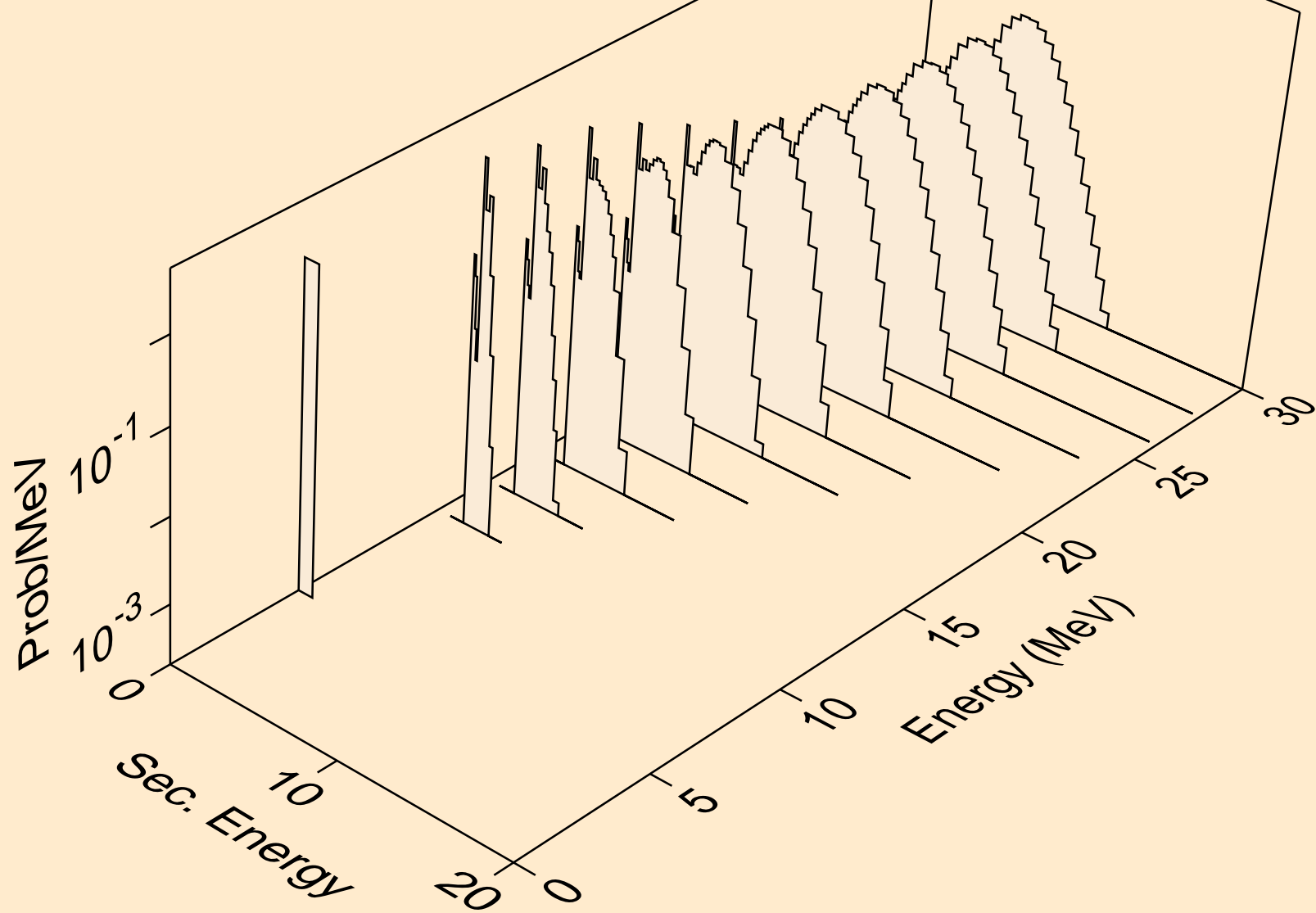
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protons from (n,p)



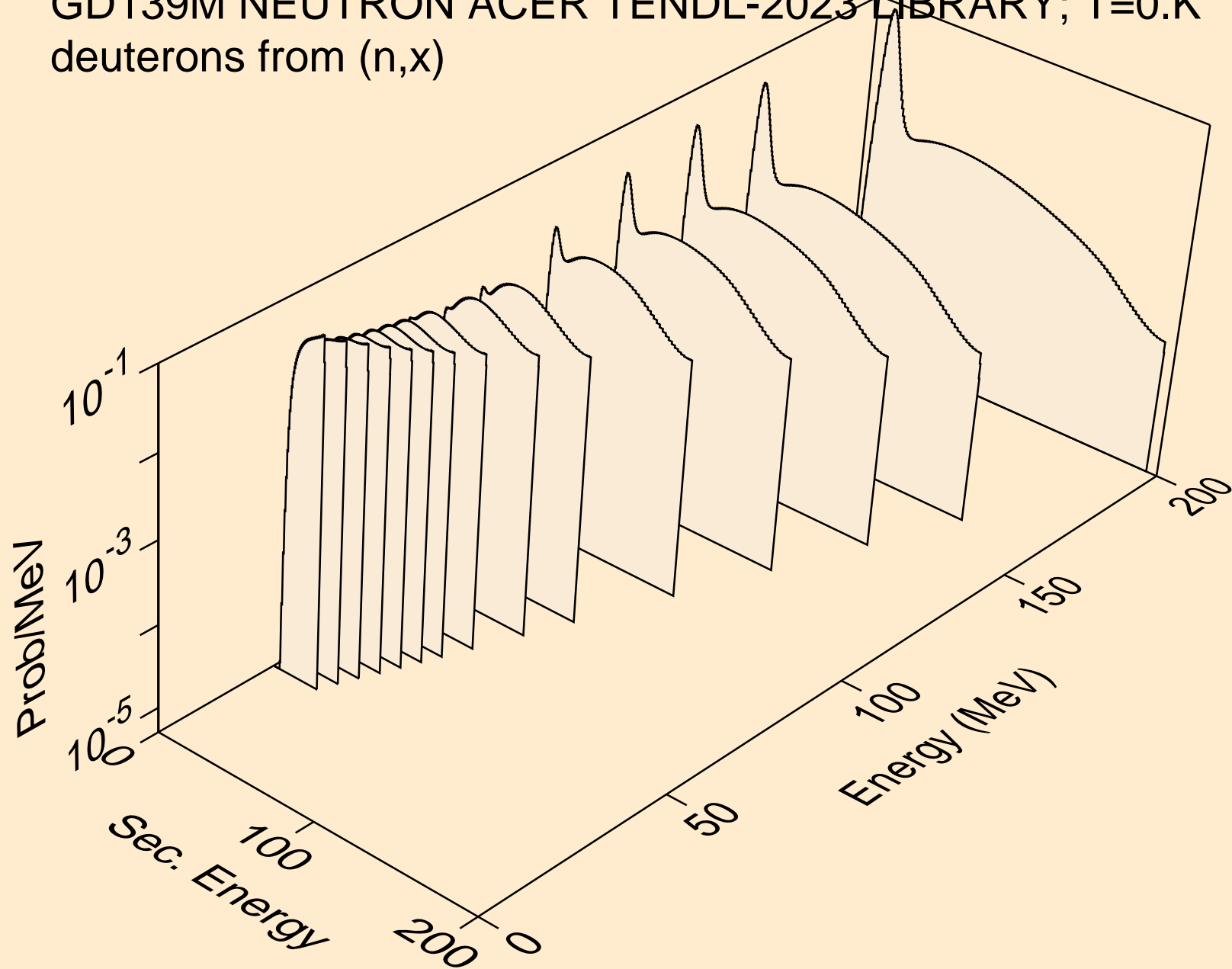
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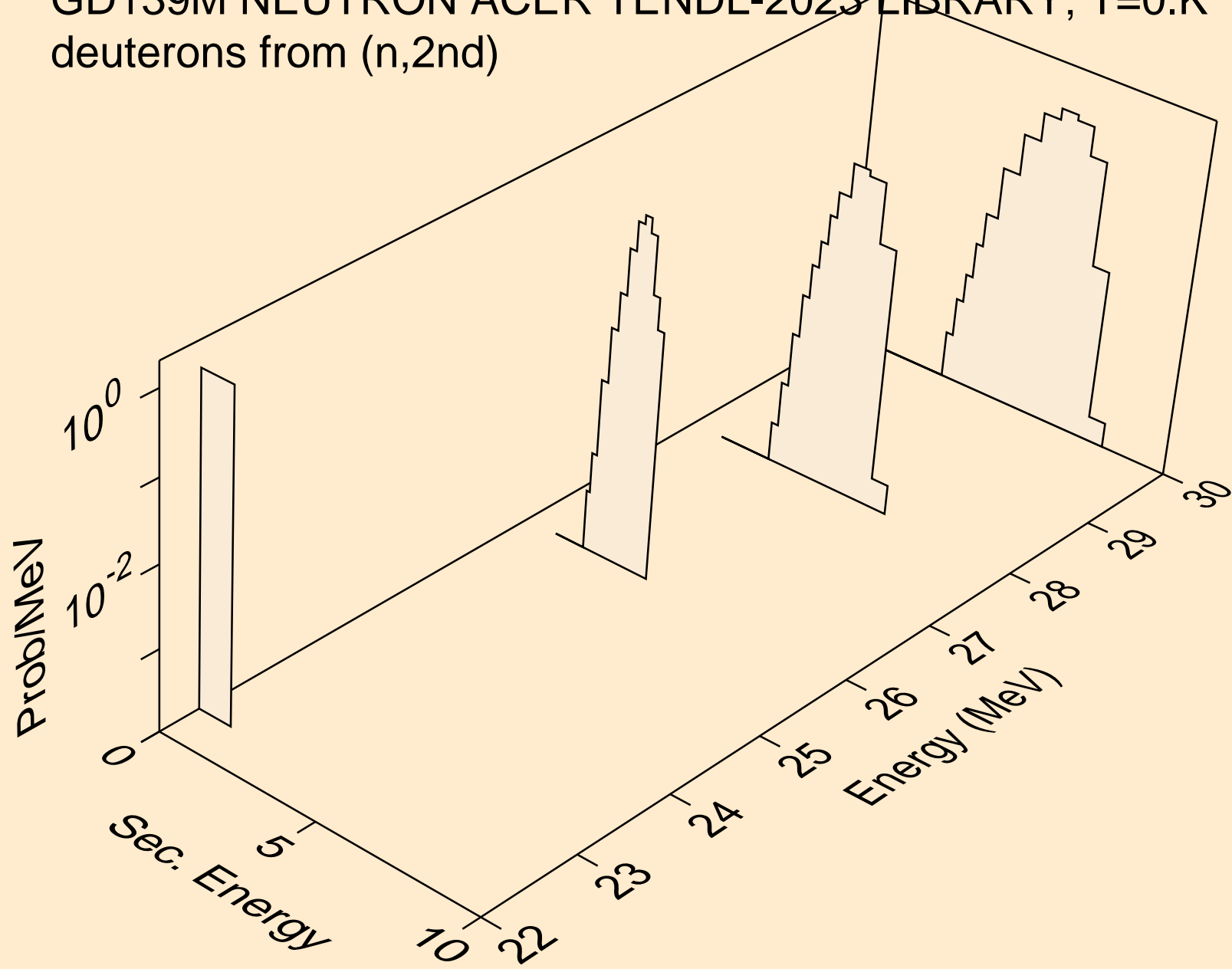
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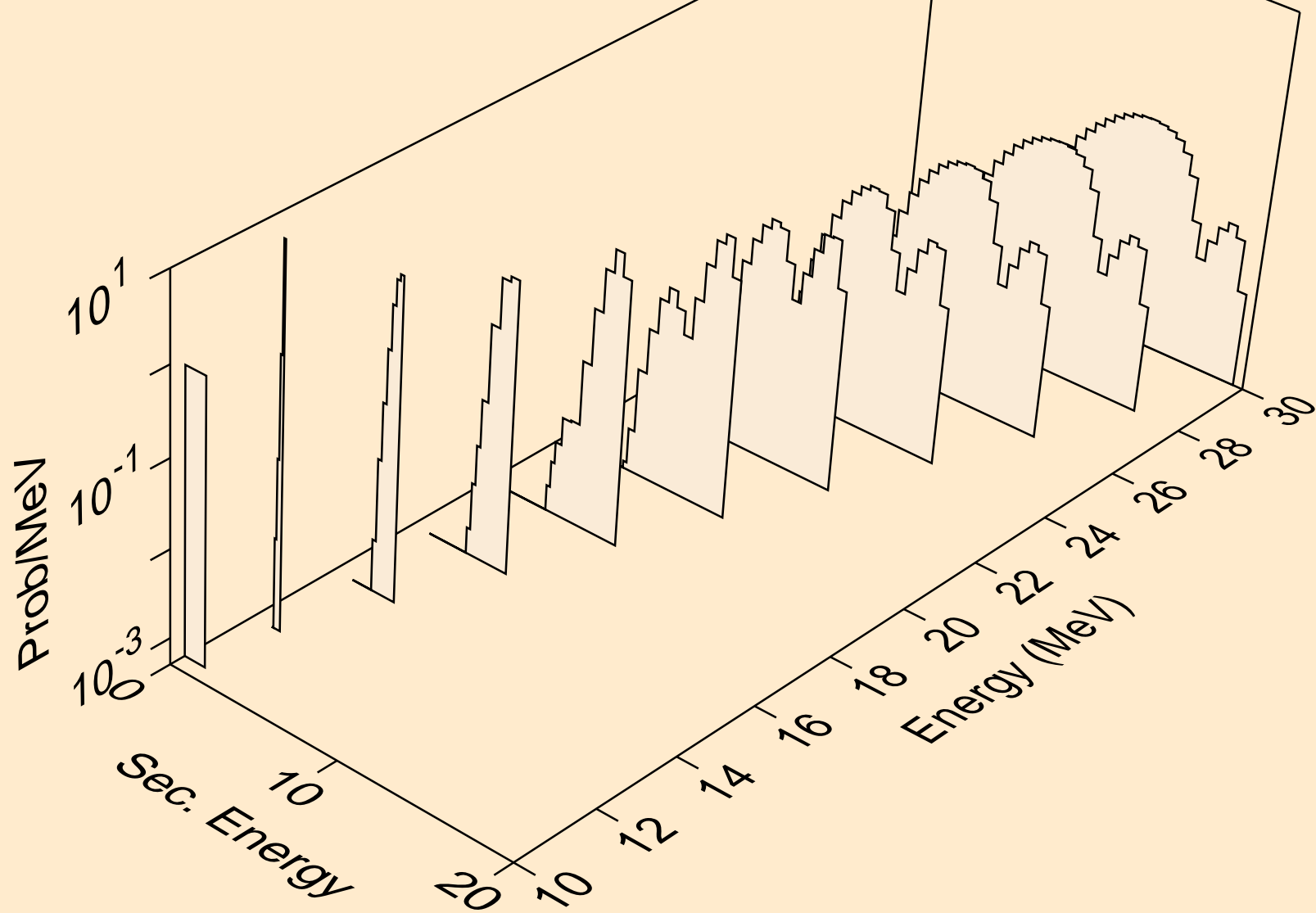
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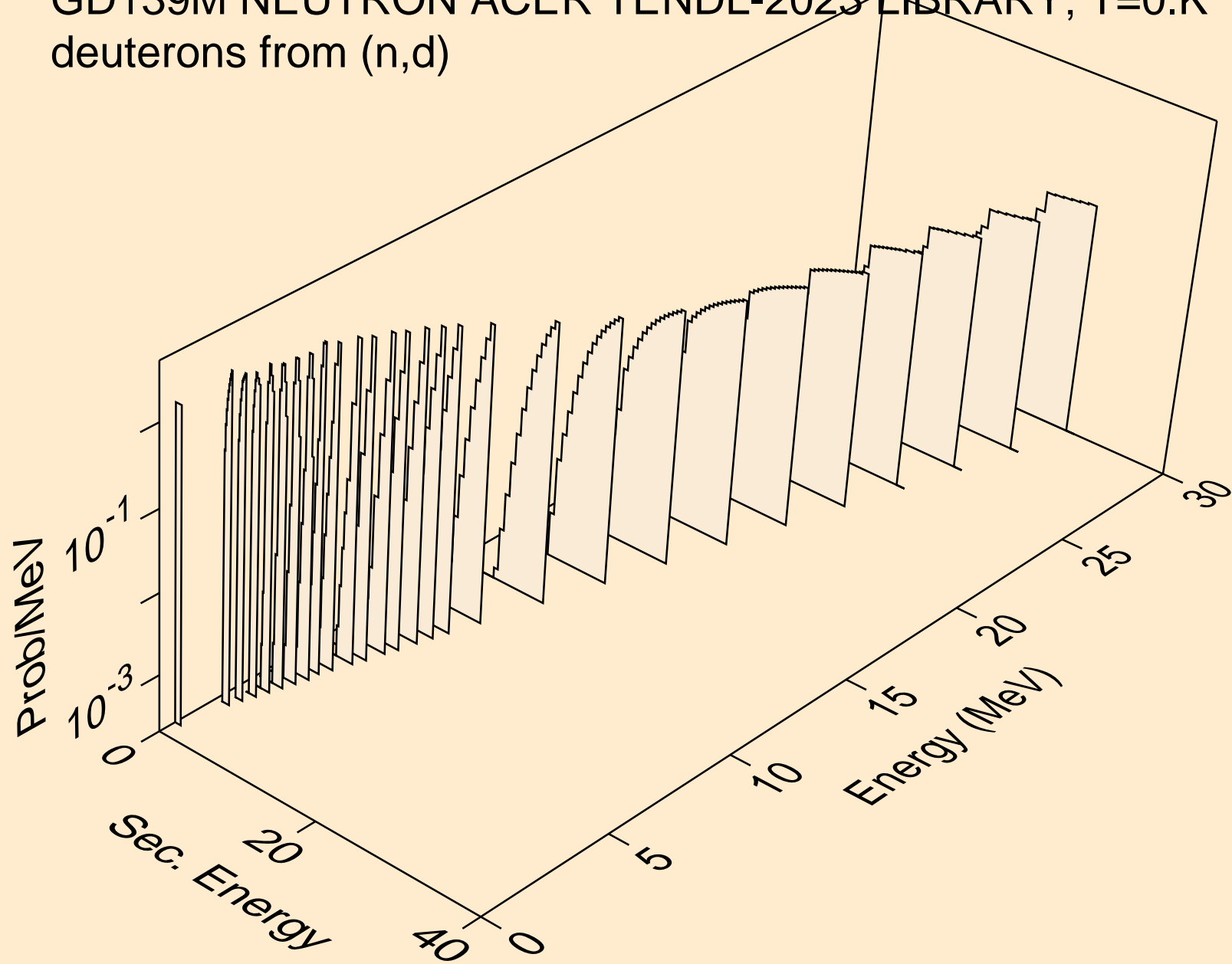
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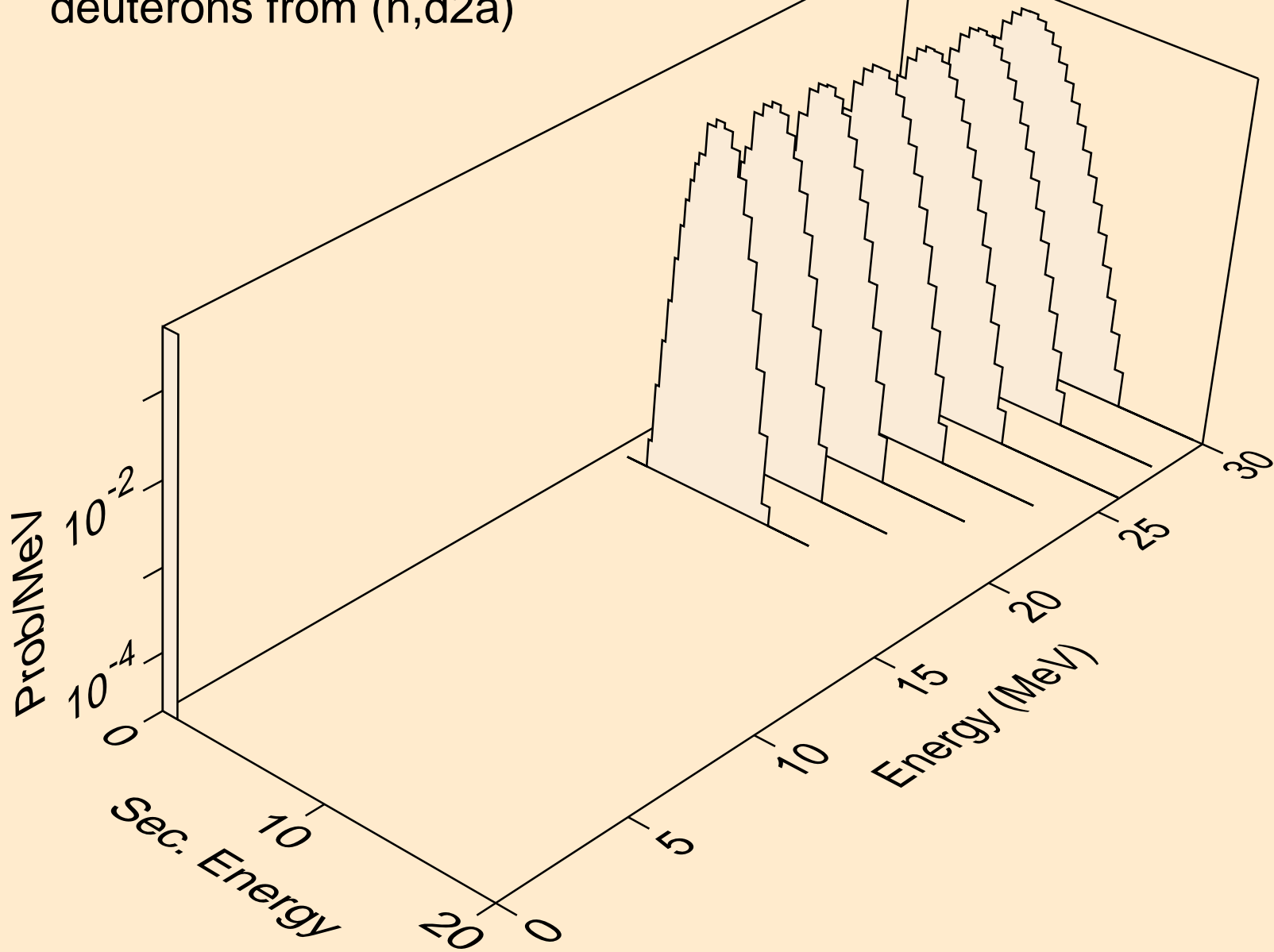
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deuterons from (n,n\*)d



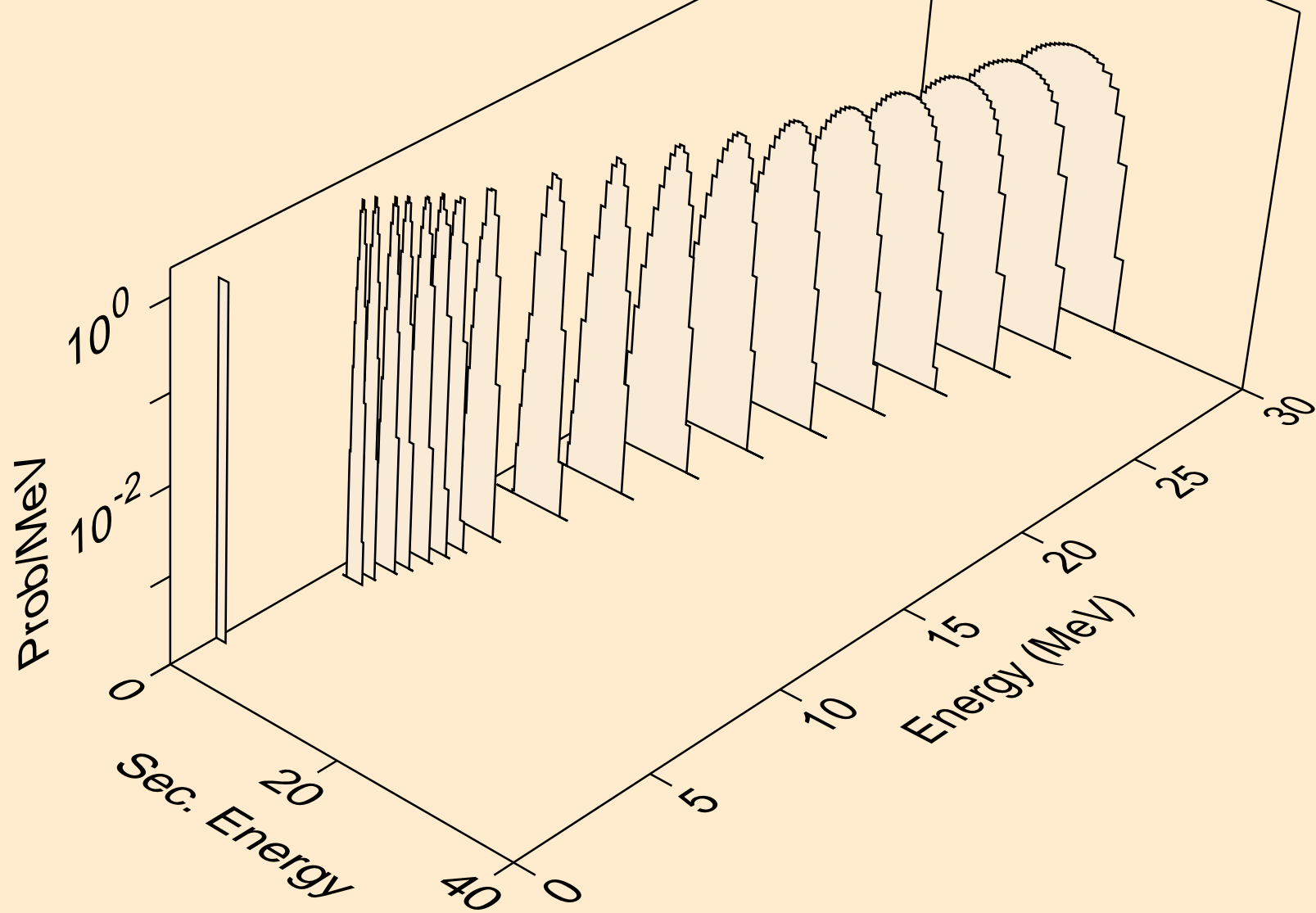
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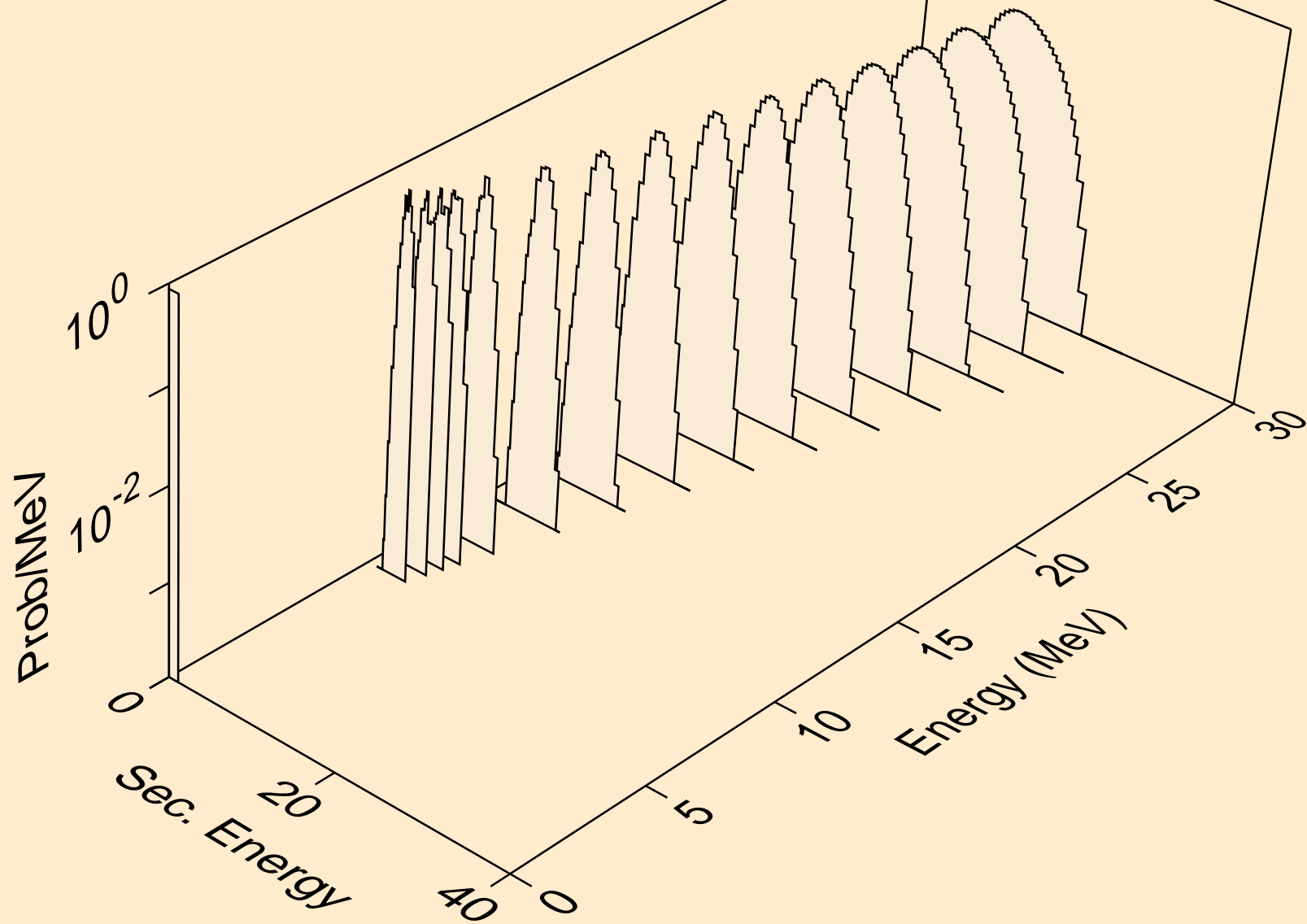
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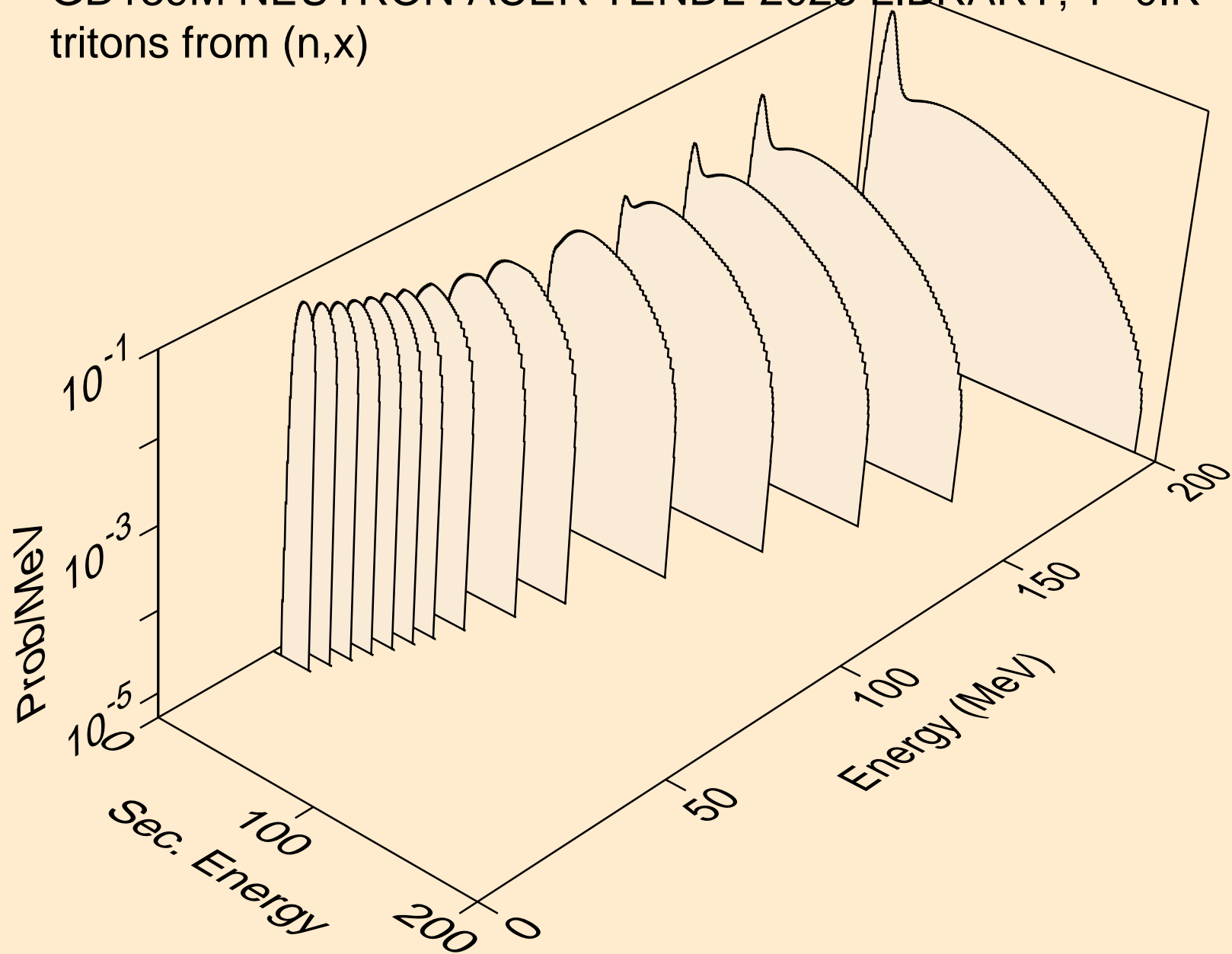
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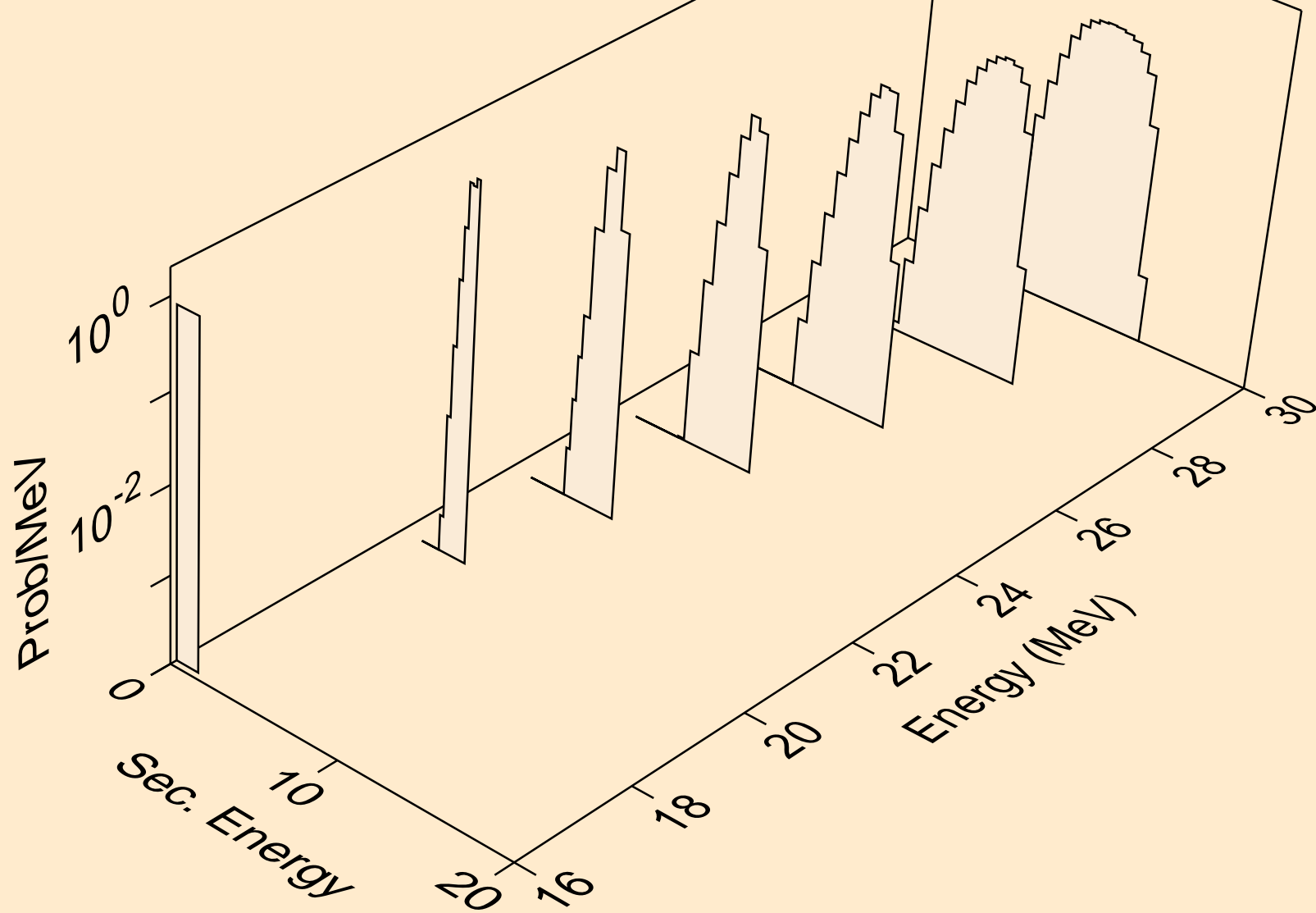
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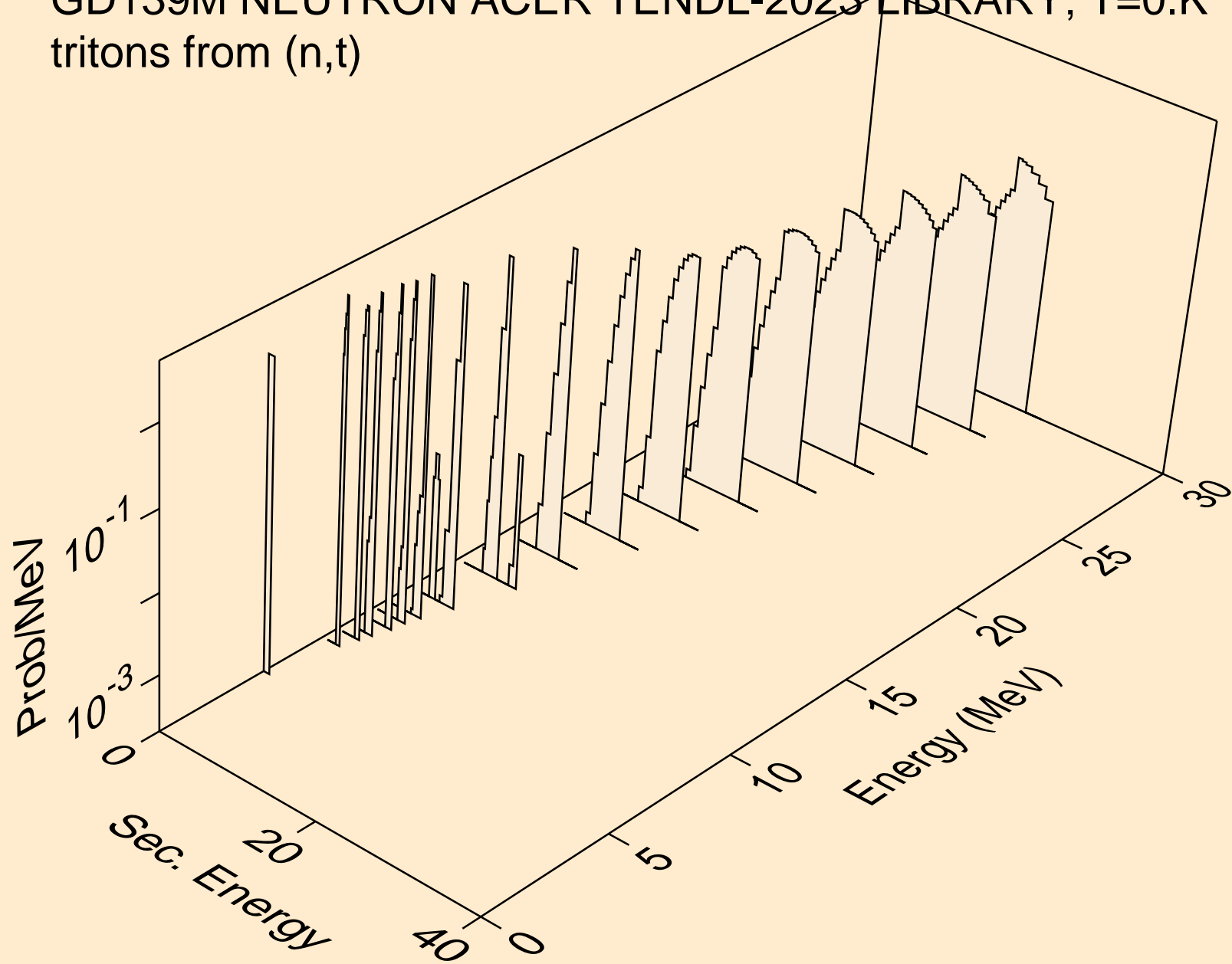
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tritons from (n,x)



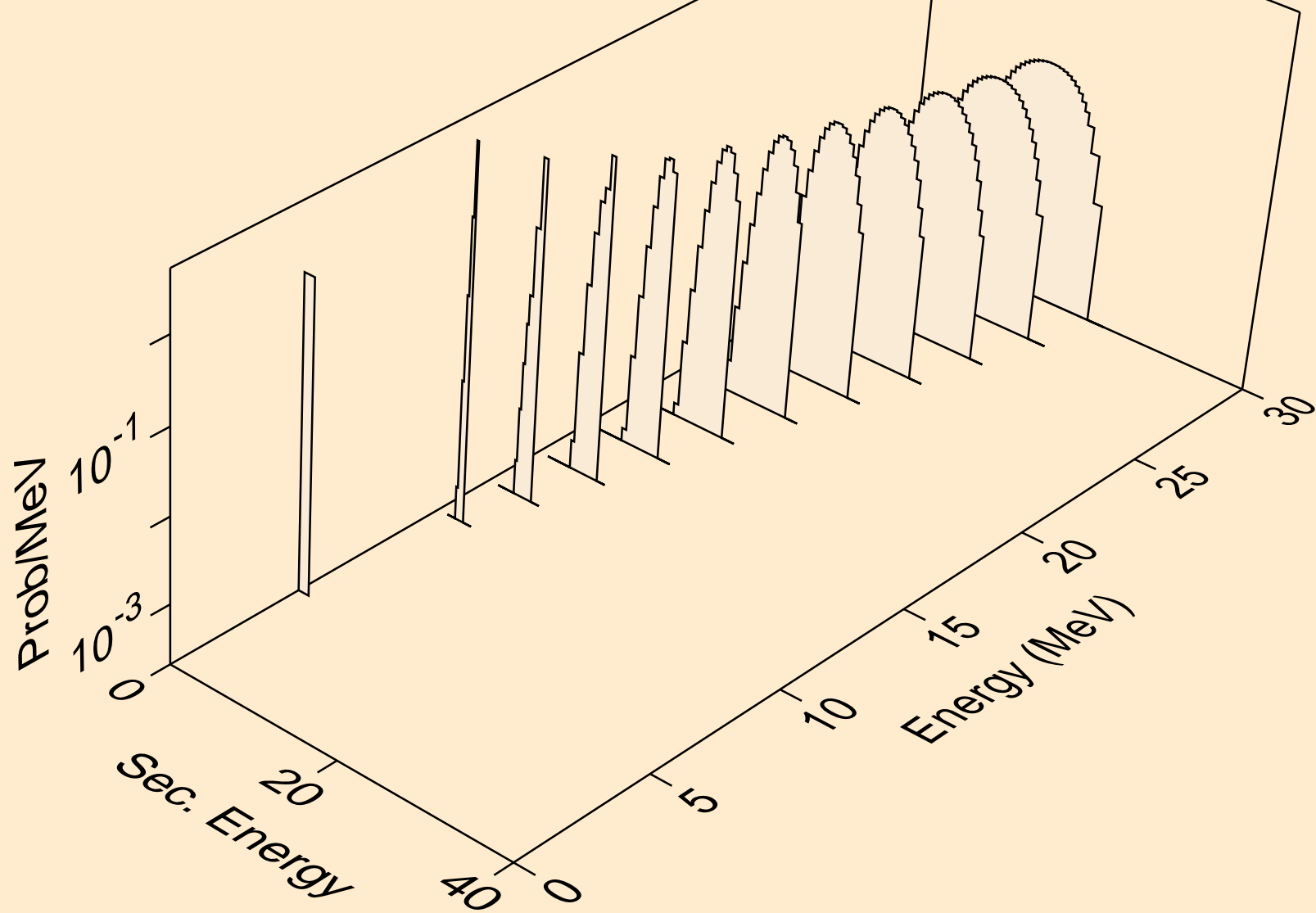
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tritons from (n,n\*)t



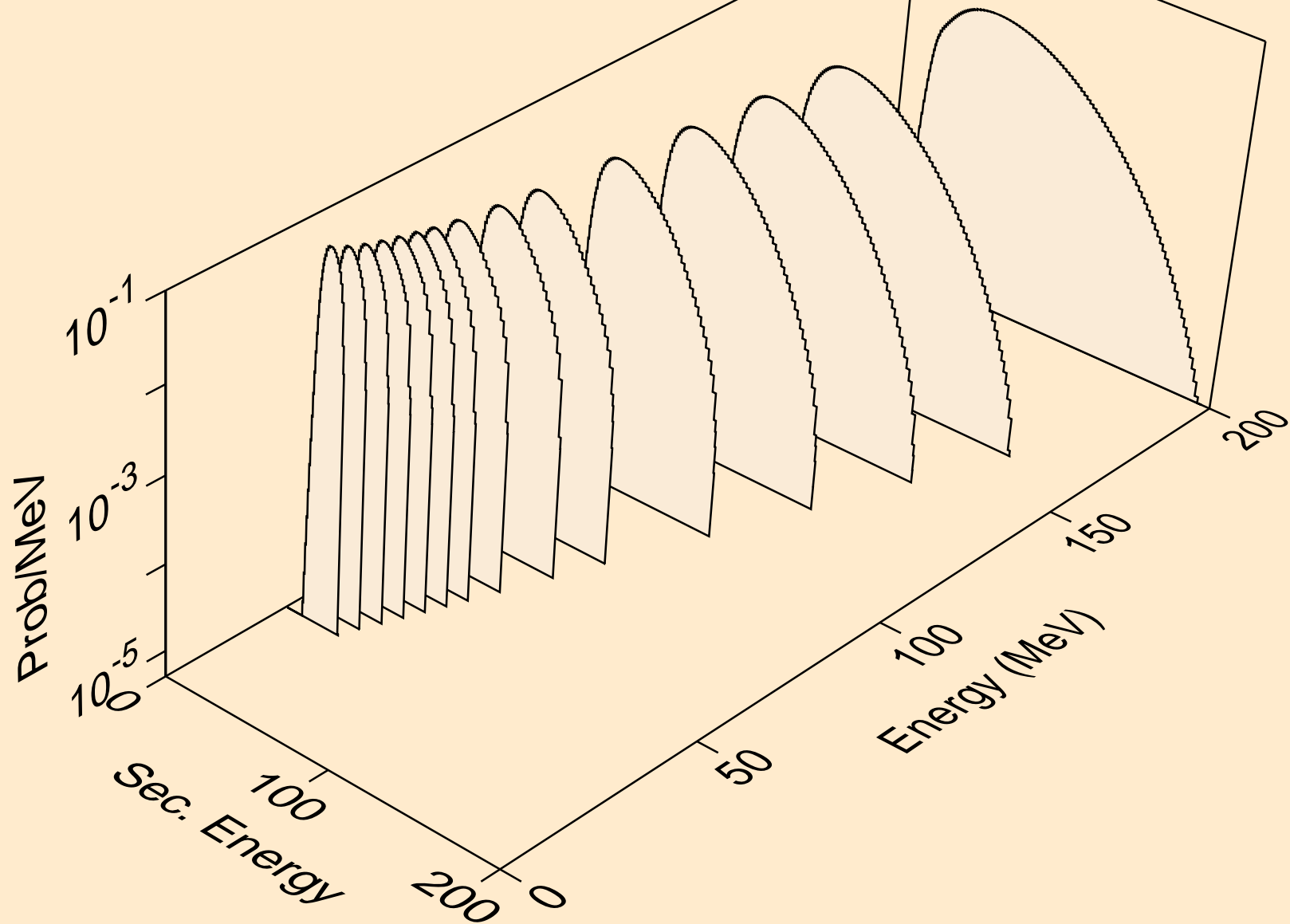
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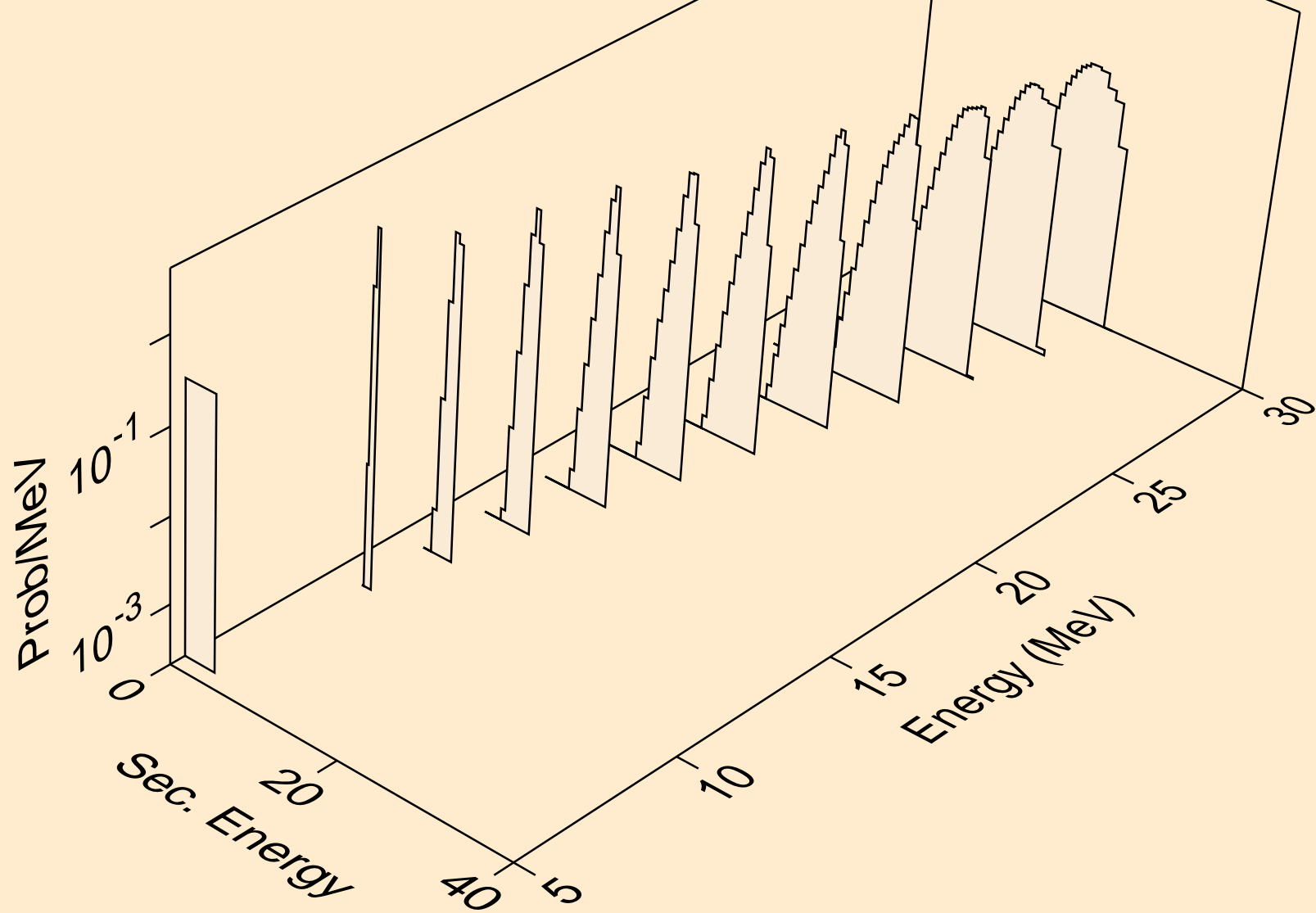
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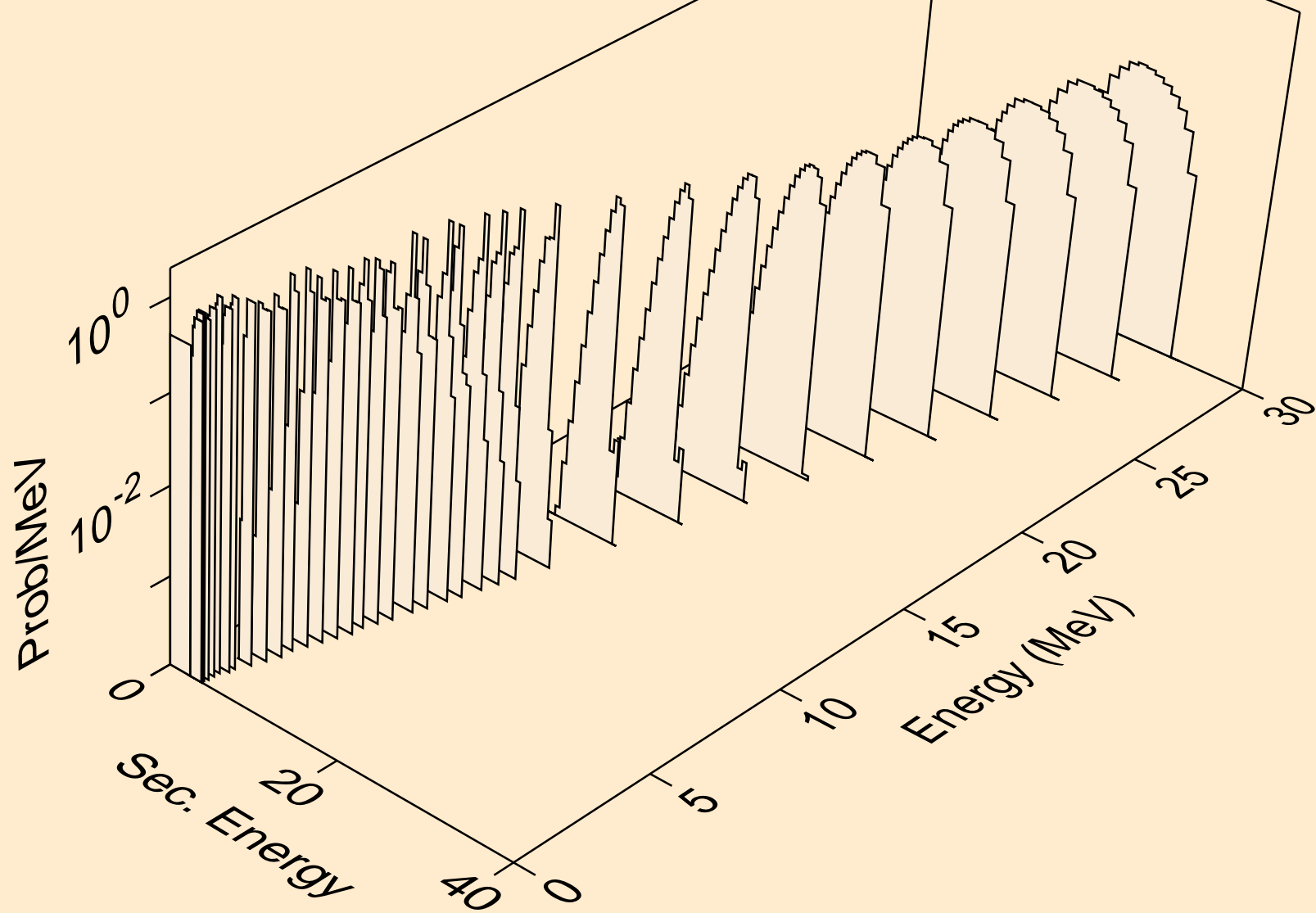
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he3s from (n,x)



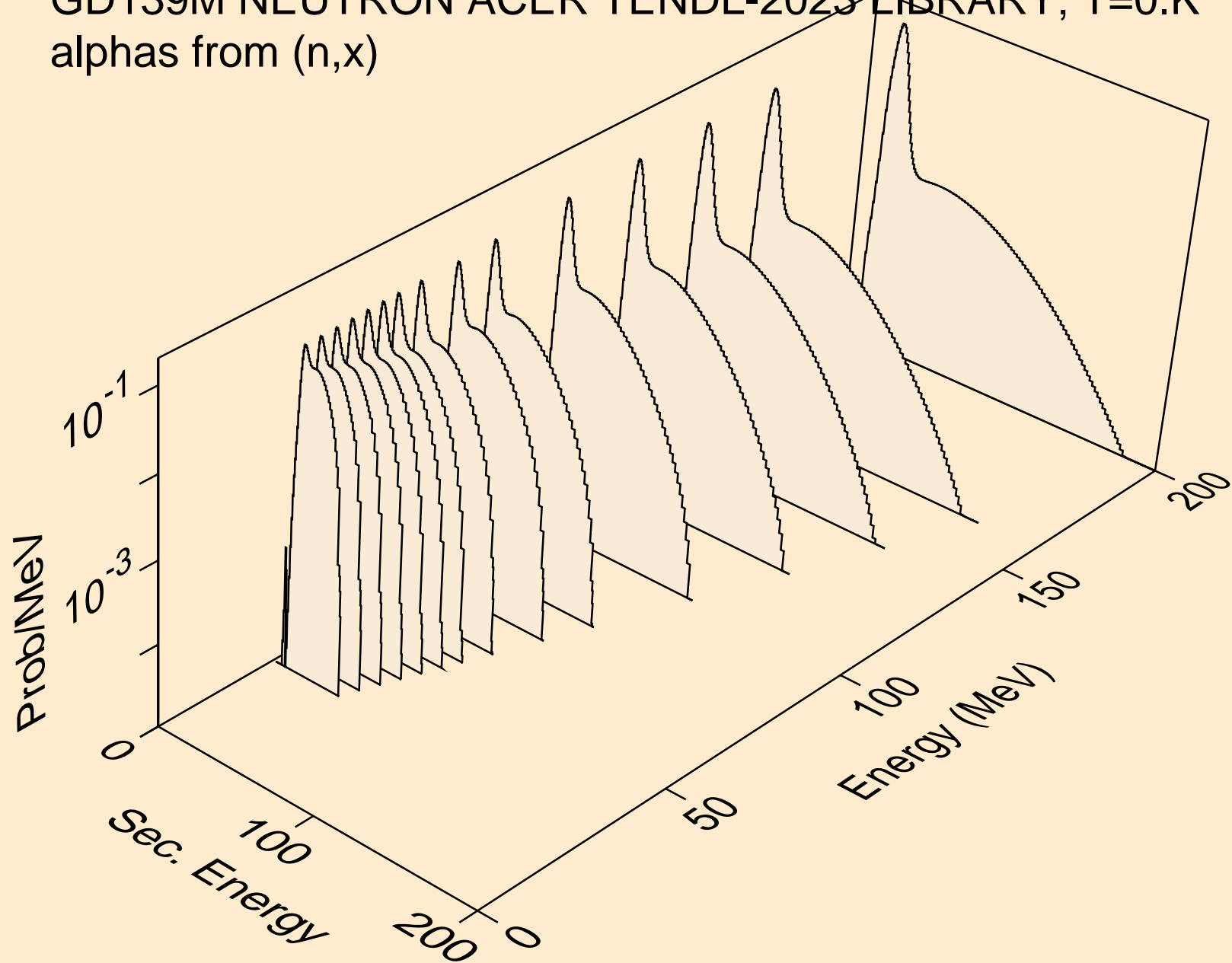
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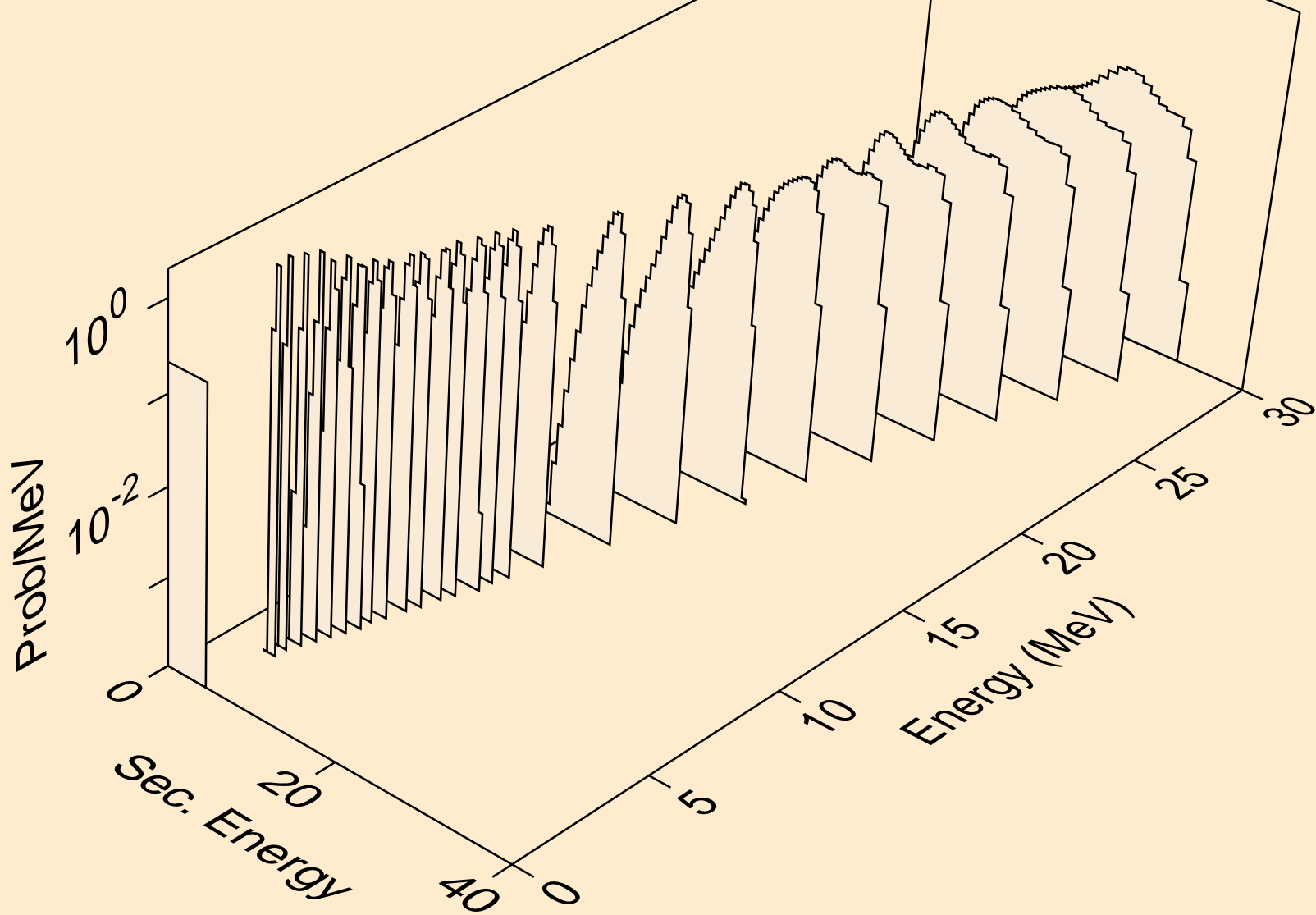
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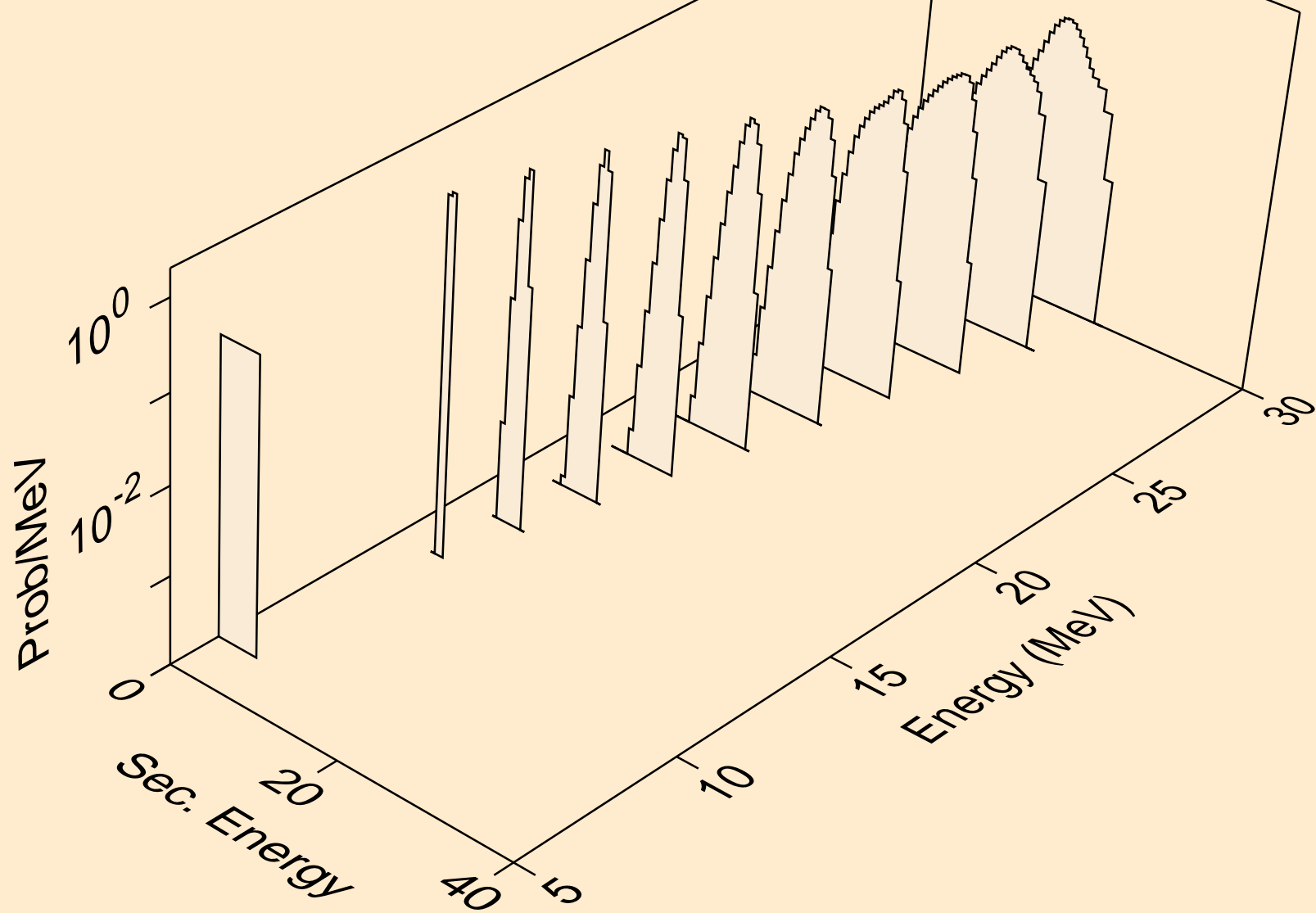
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alphas from (n,x)



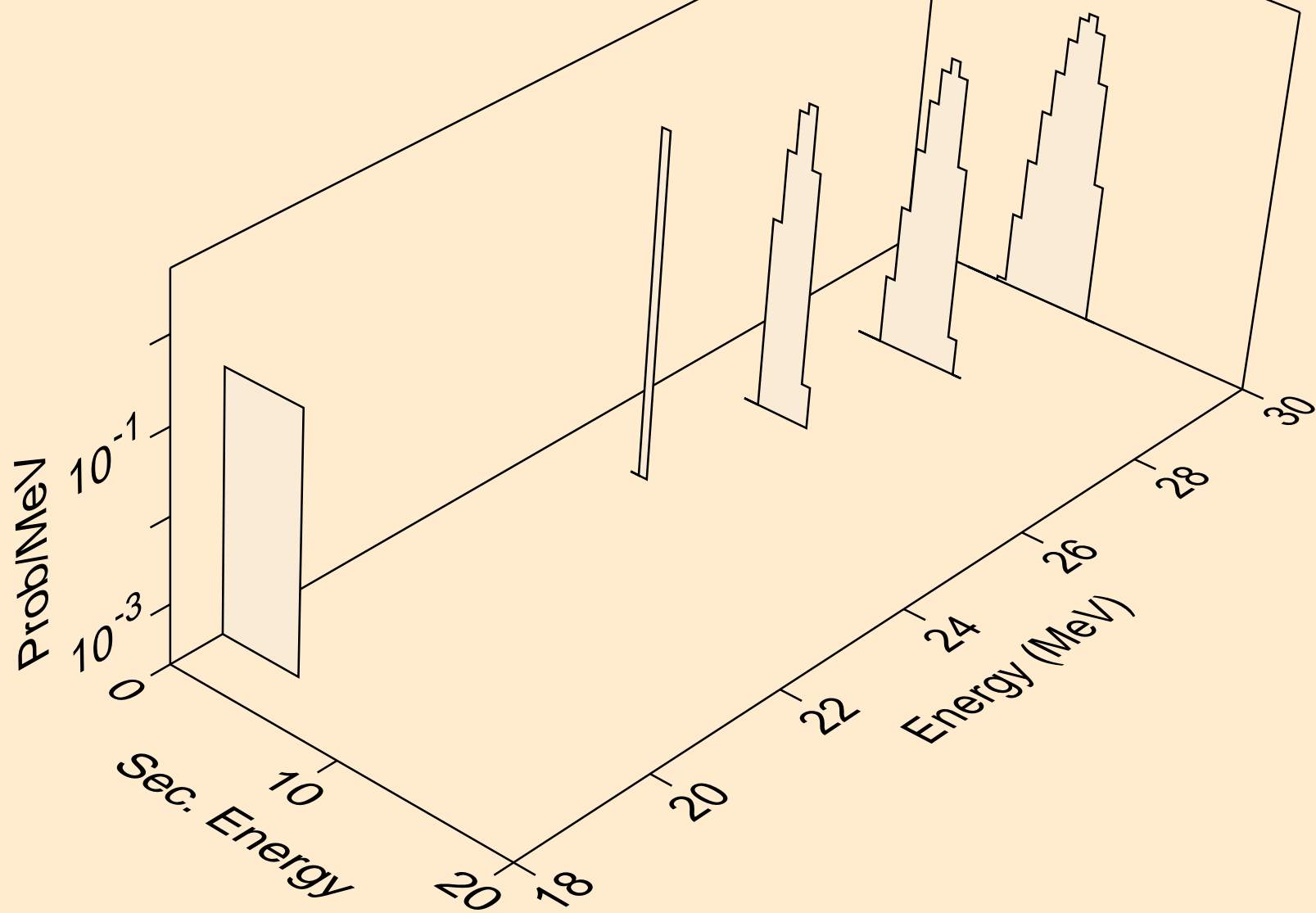
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alphas from (n,n\*)a



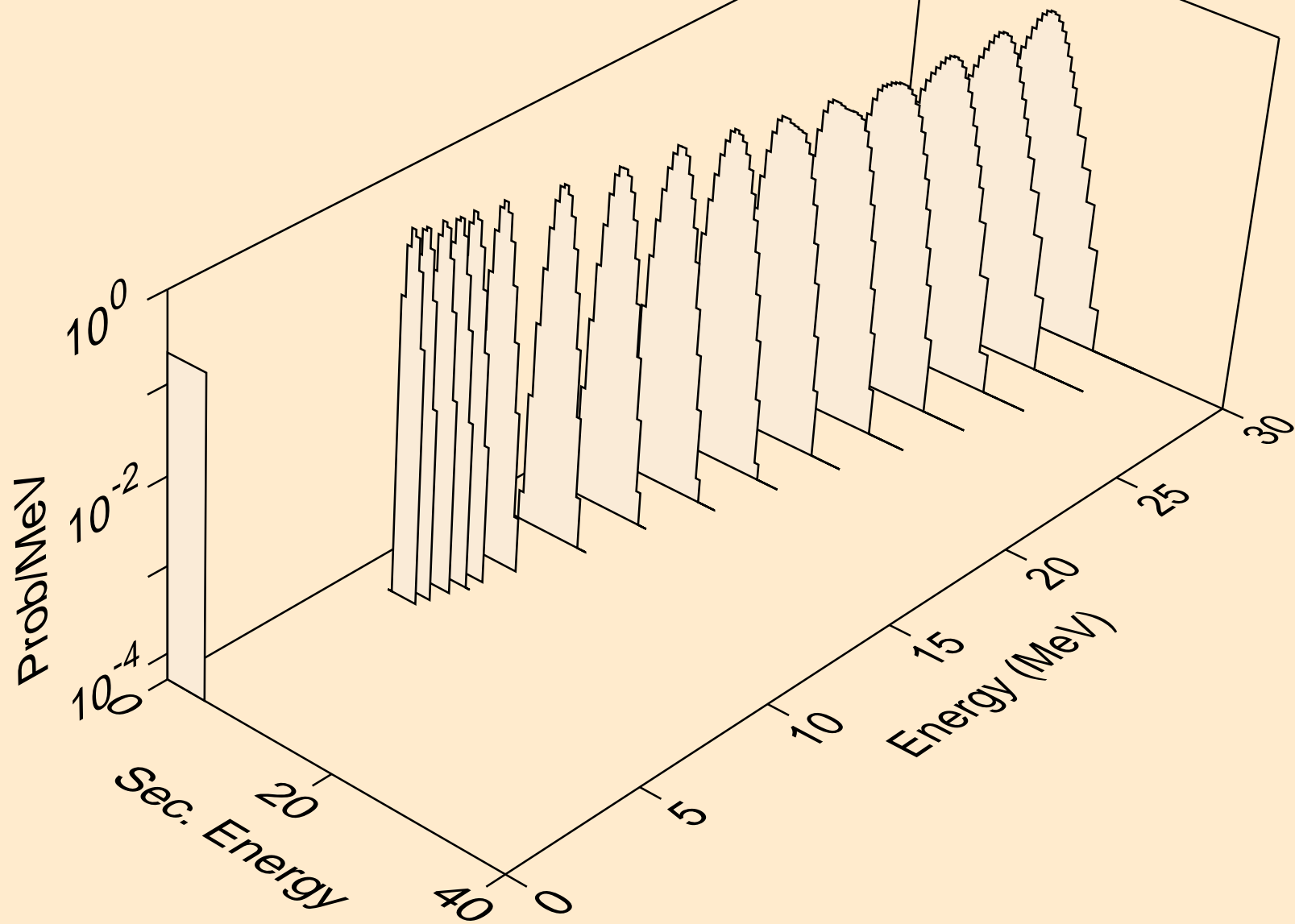
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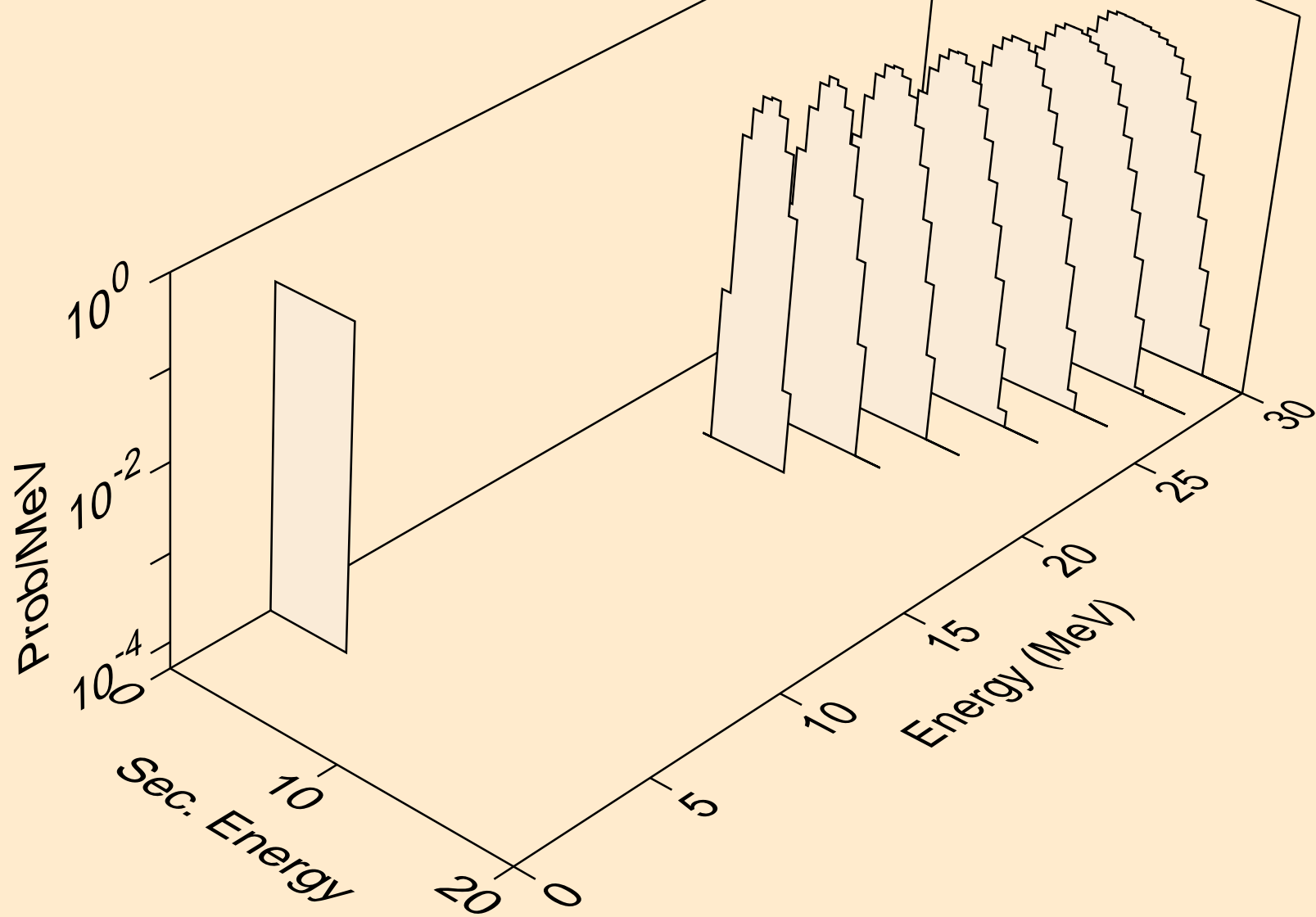
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alphas from (n,3n)a



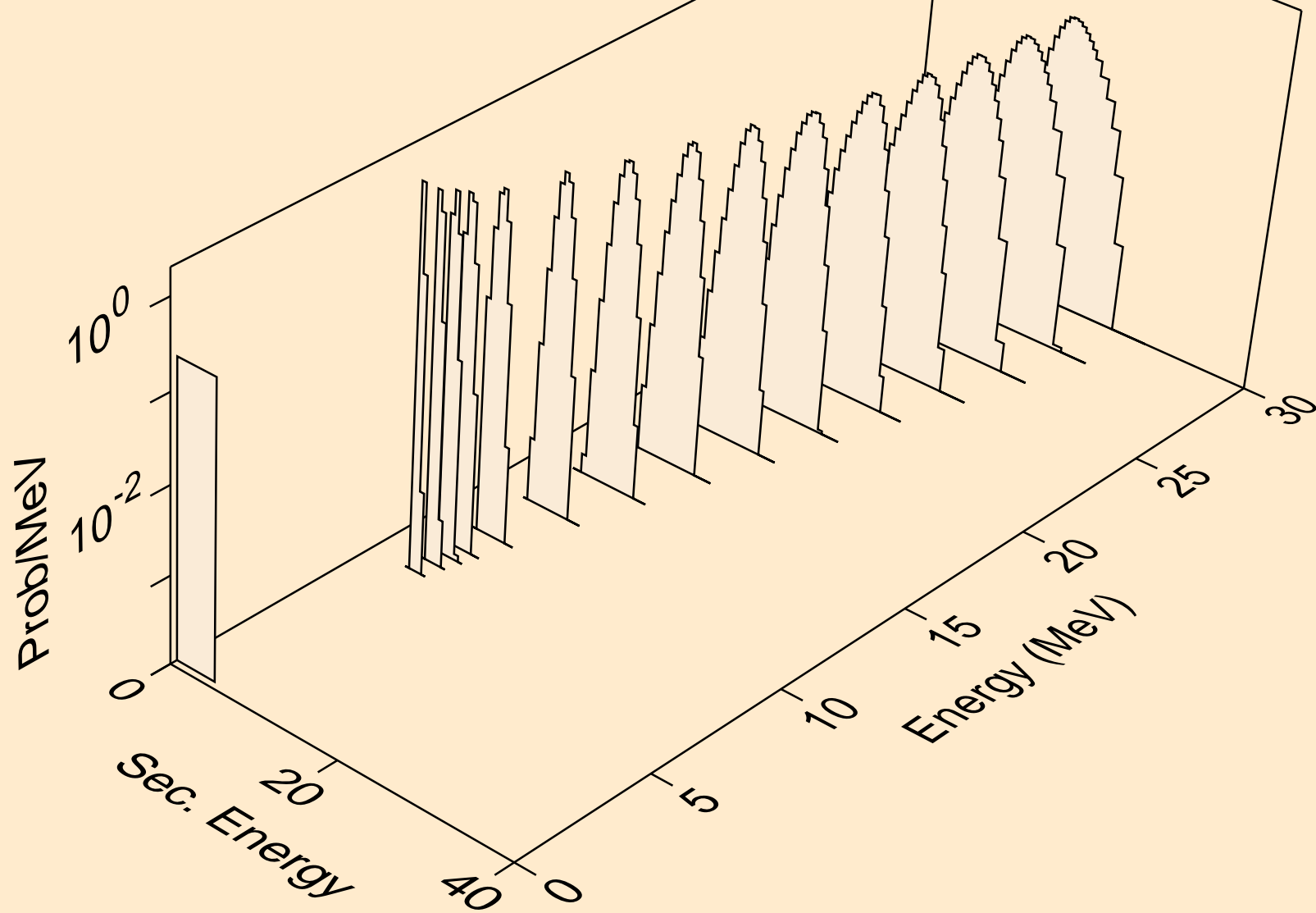
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alphas from (n,n\*)2a



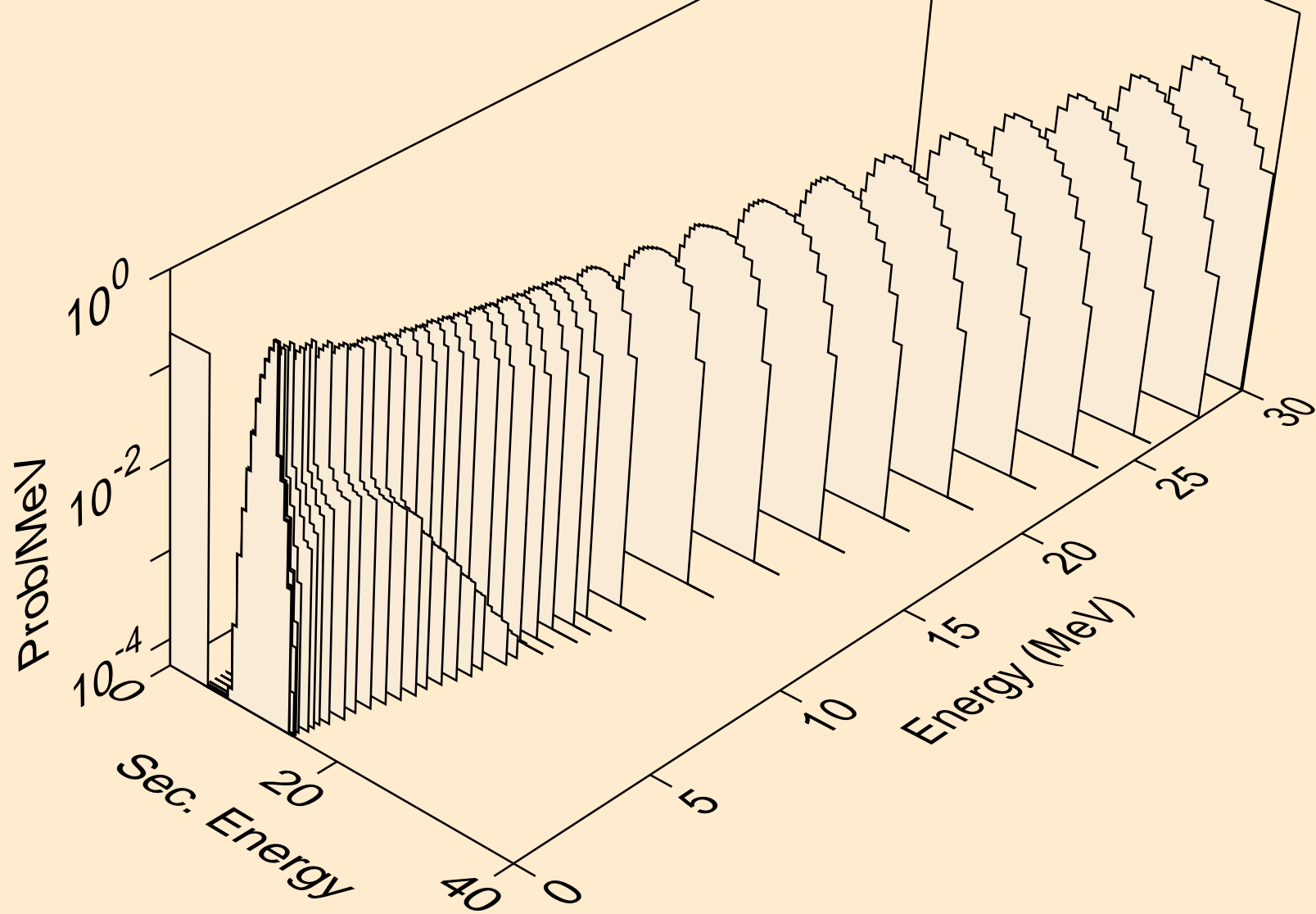
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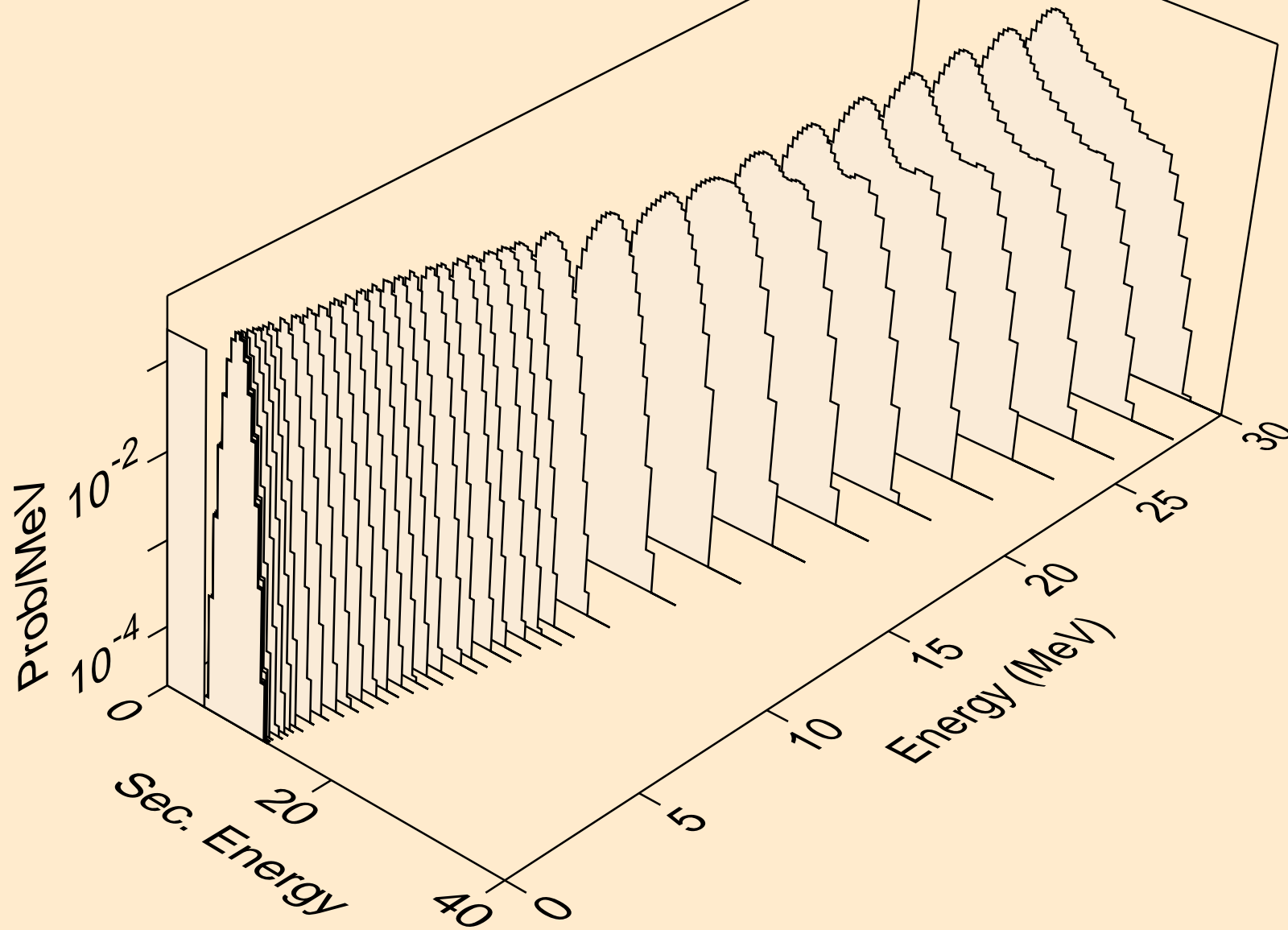
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alphas from (n,npa)



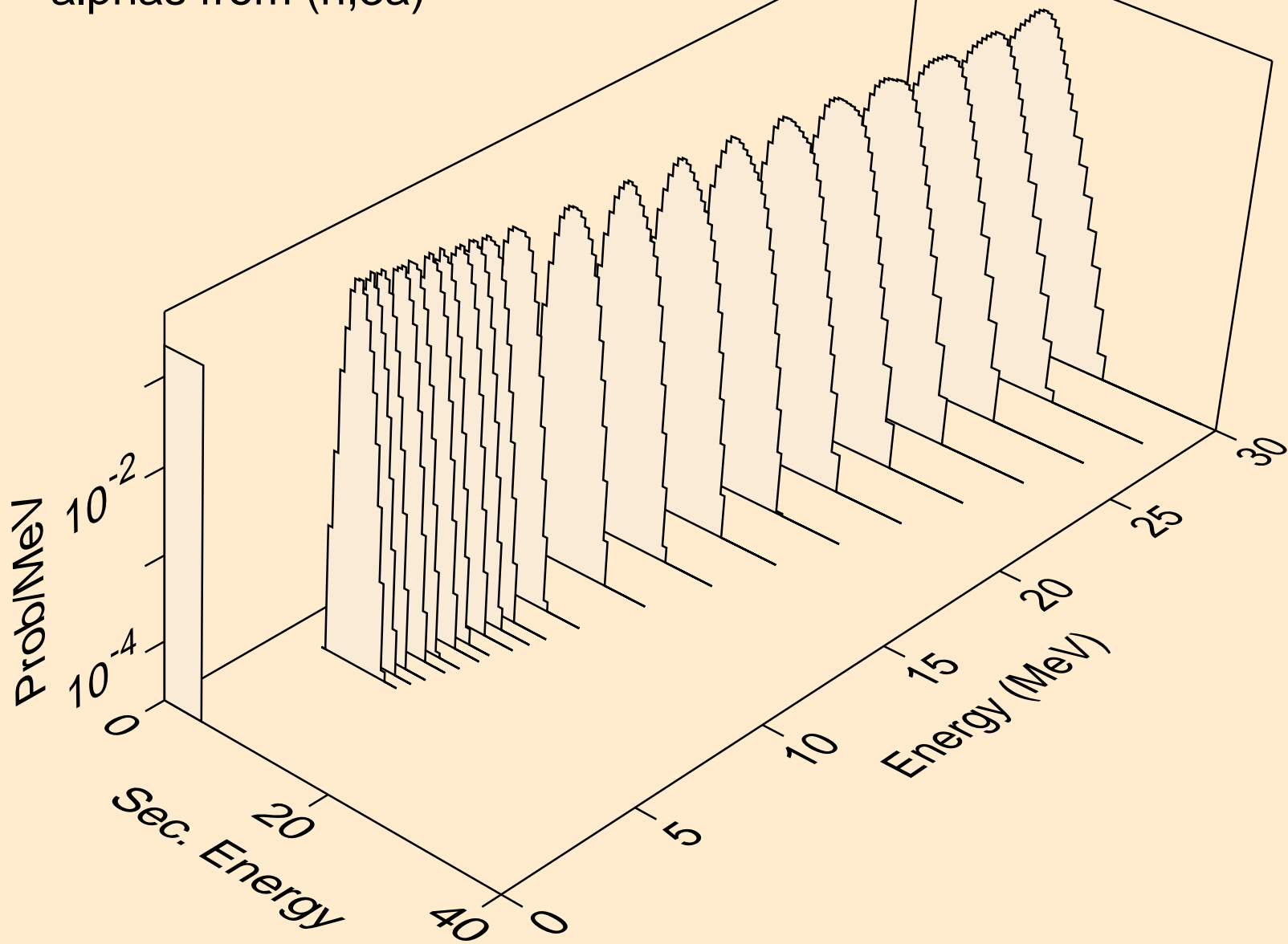
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alphas from (n,a)



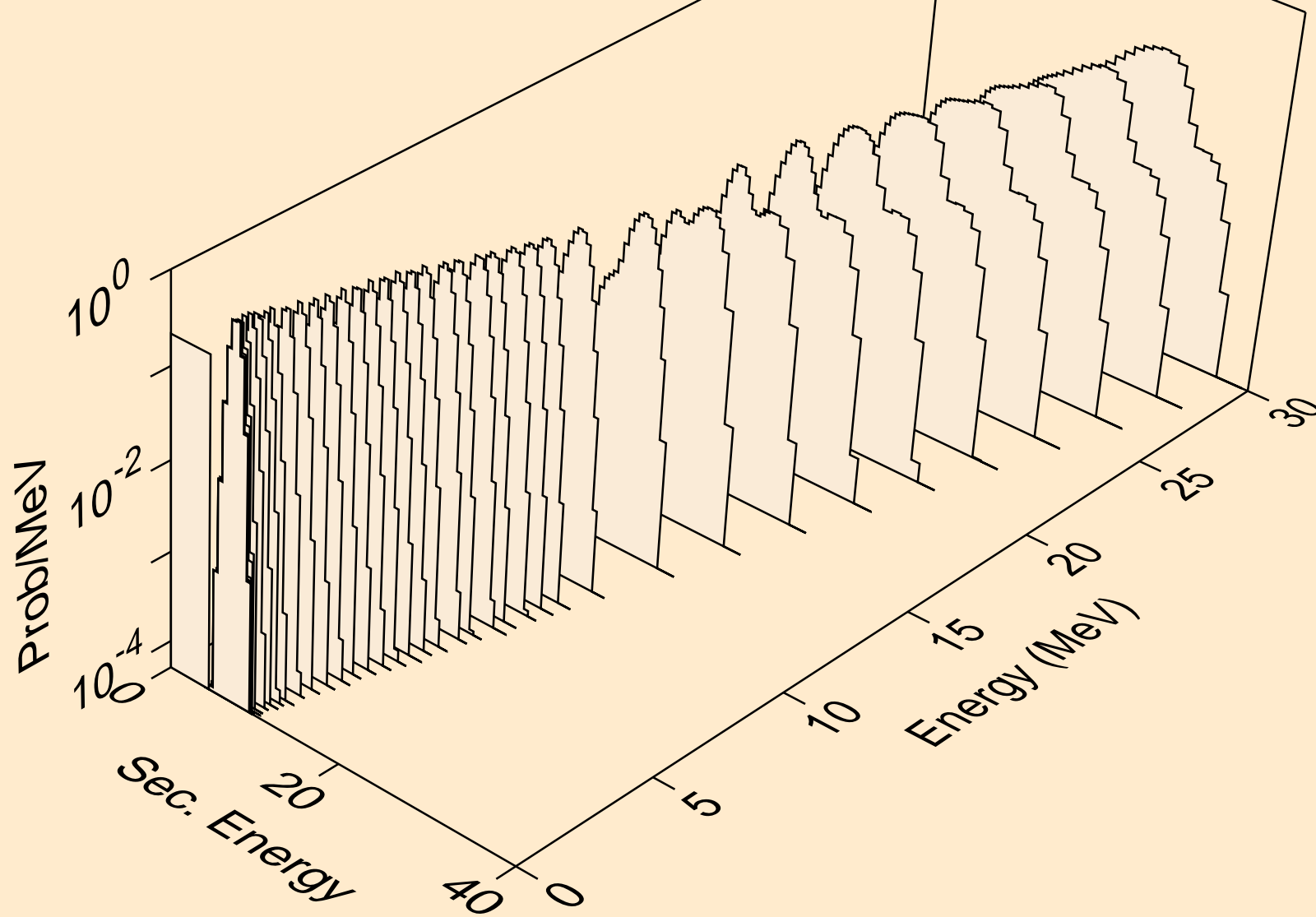
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alphas from (n,2a)



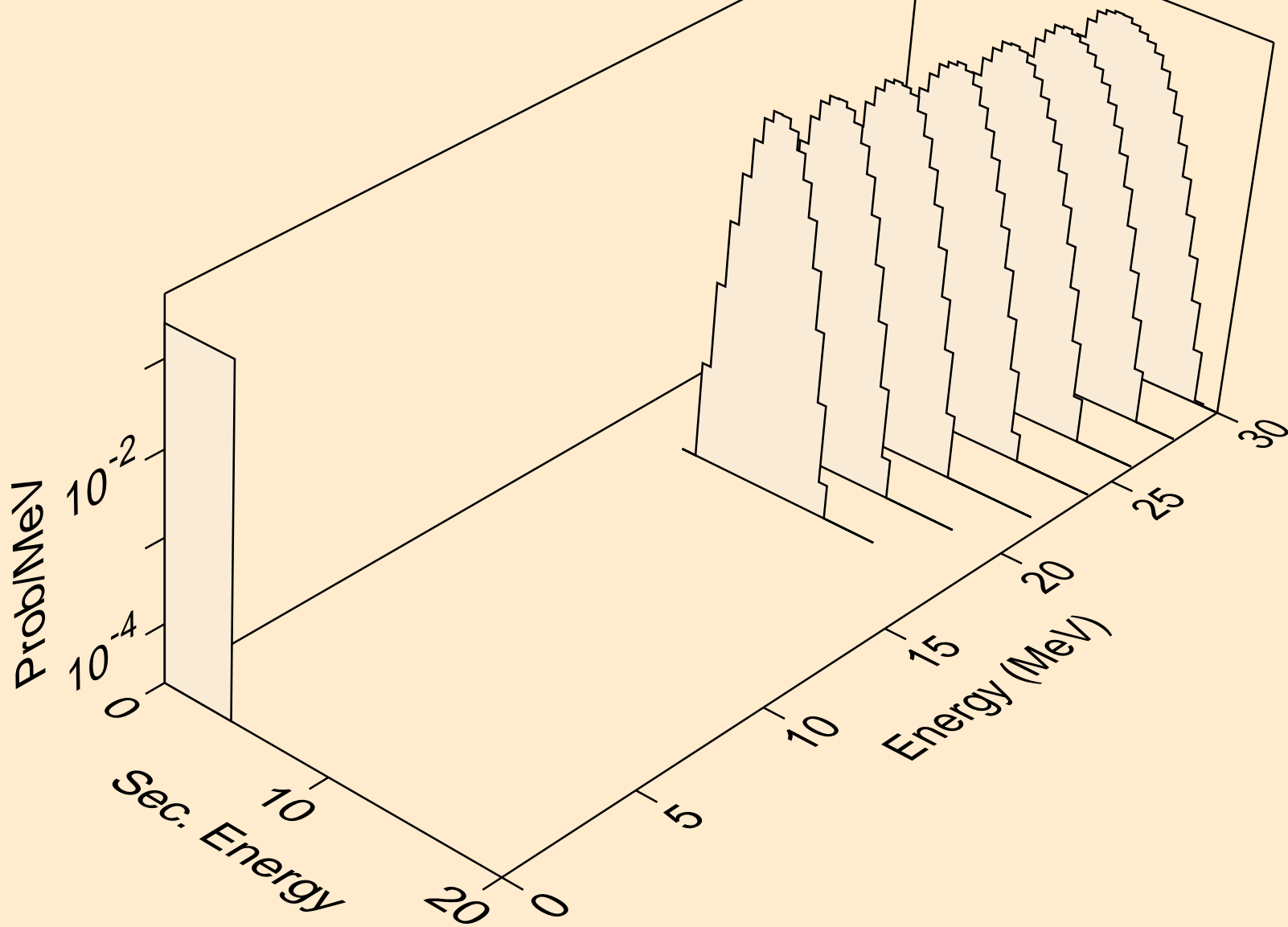
GD139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,3a)



GD139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,pa)



GD139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,d2a)



GD139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,da)

