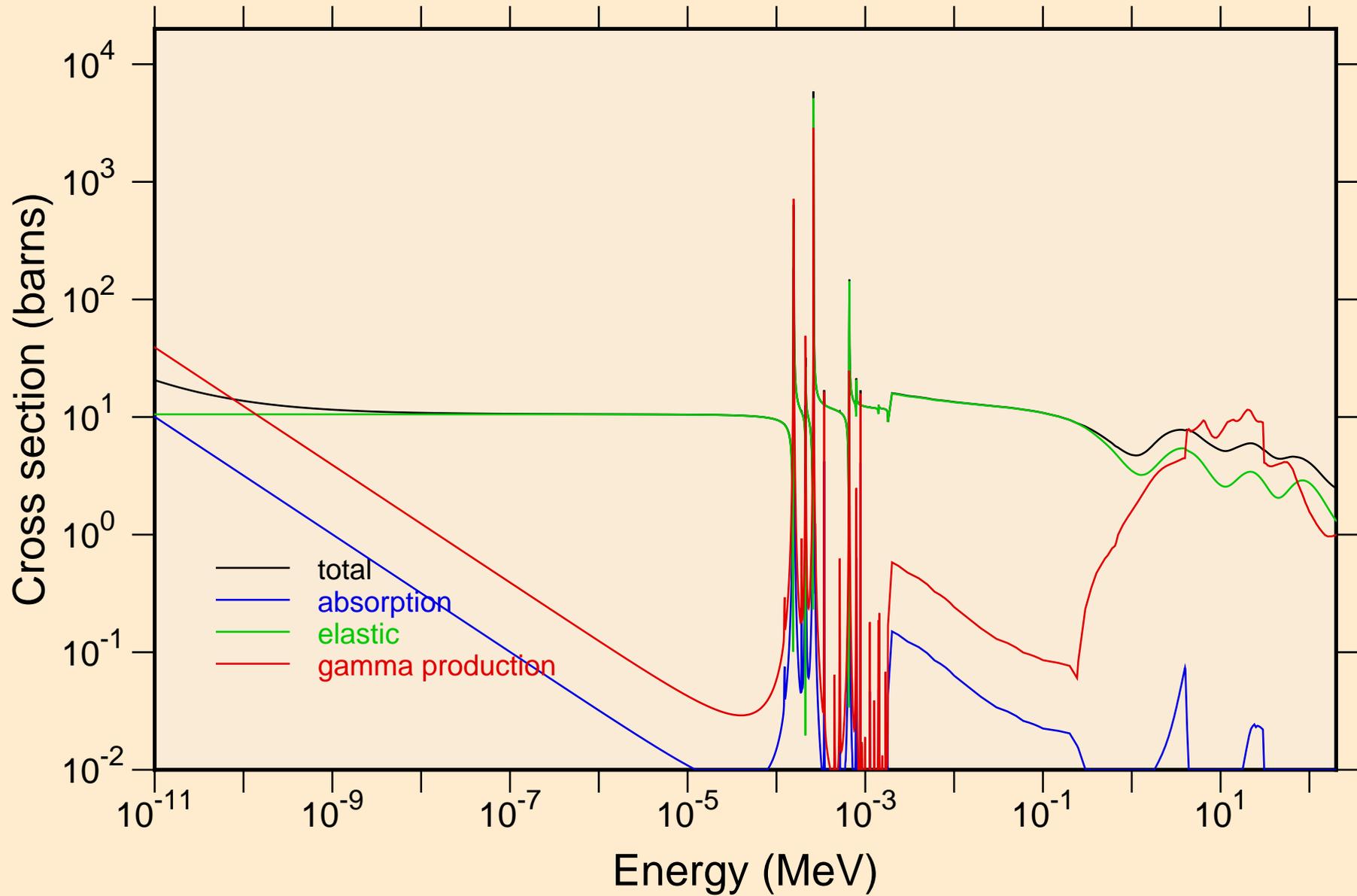
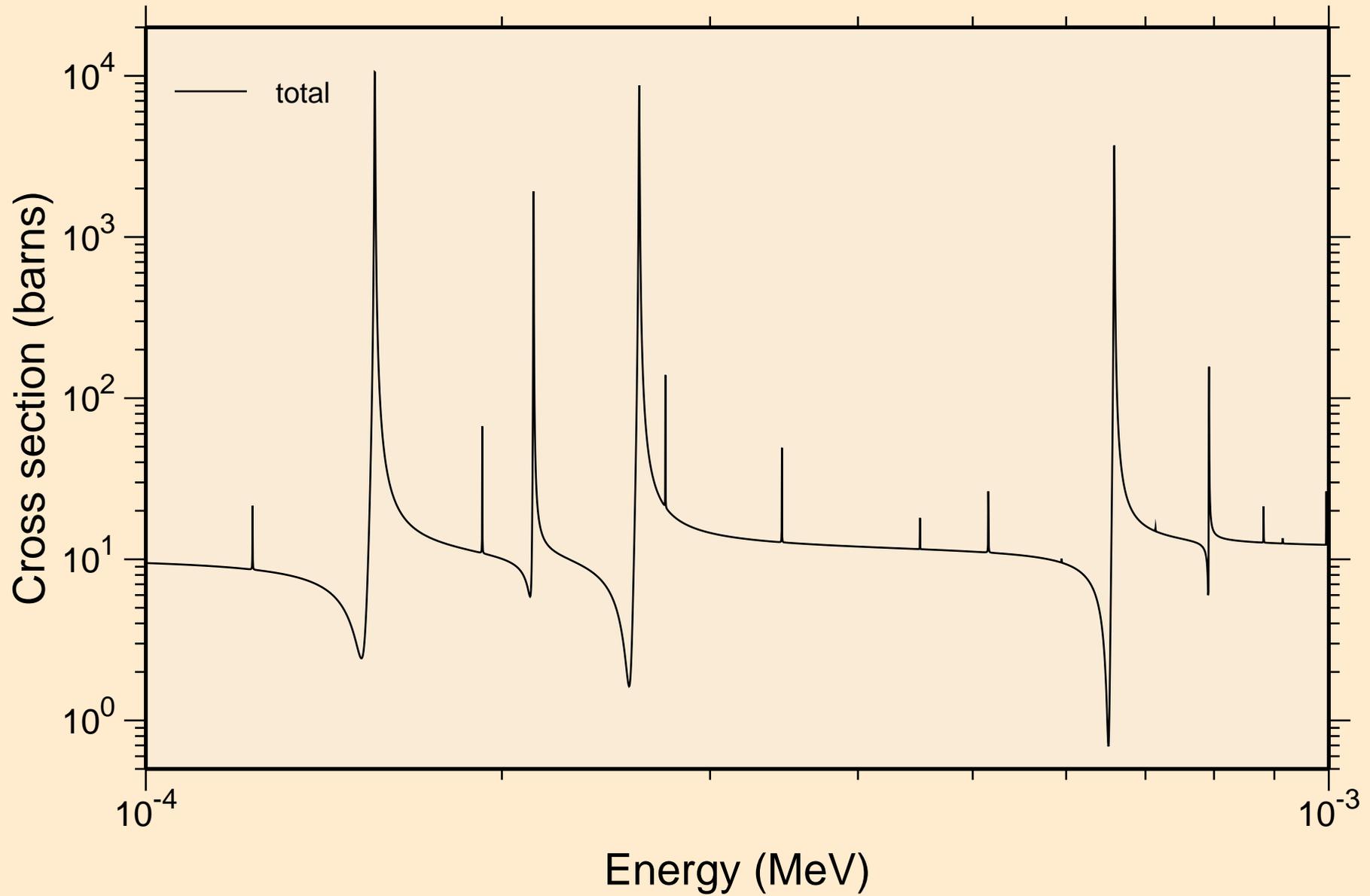


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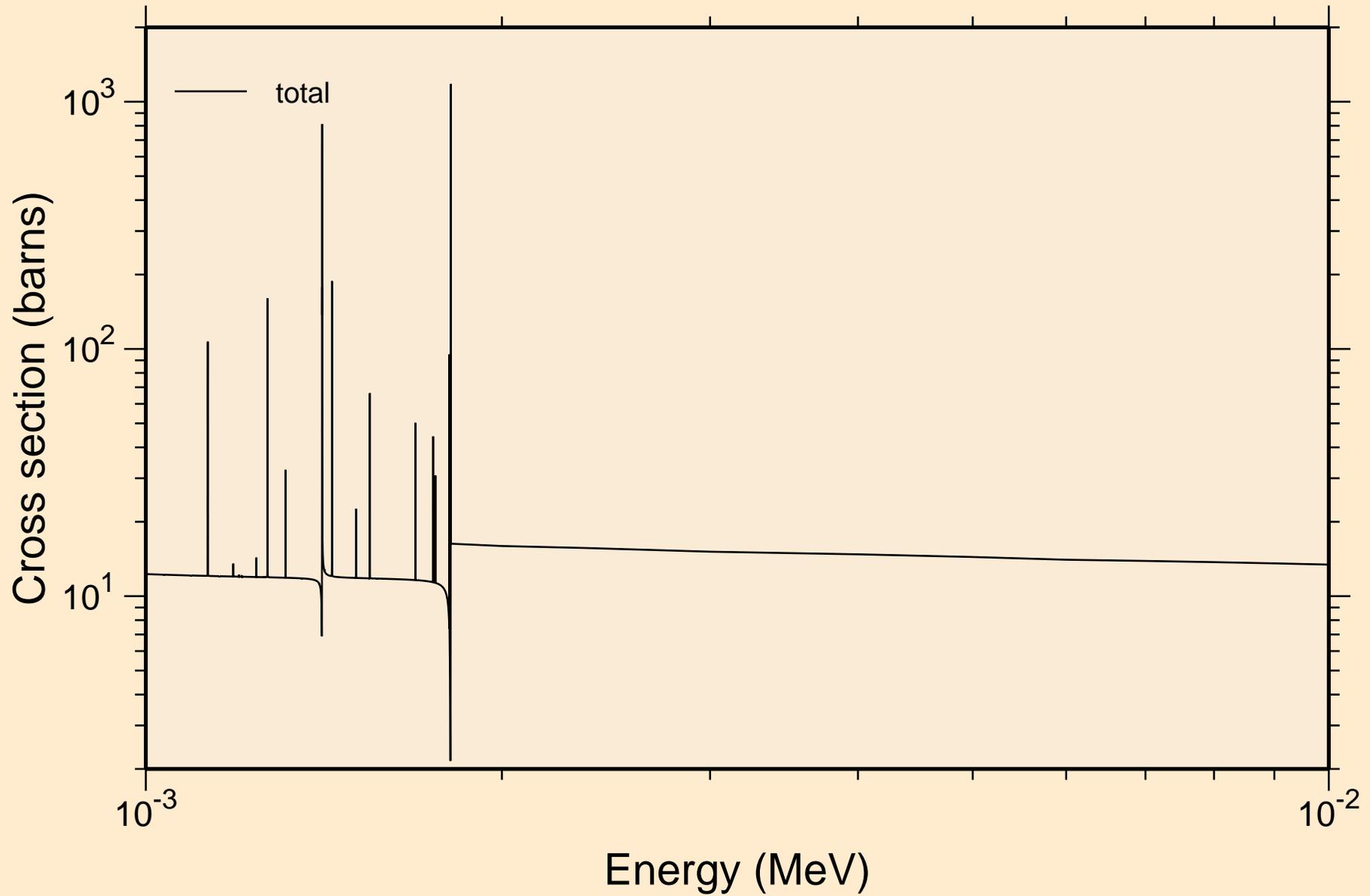
## Principal cross sections



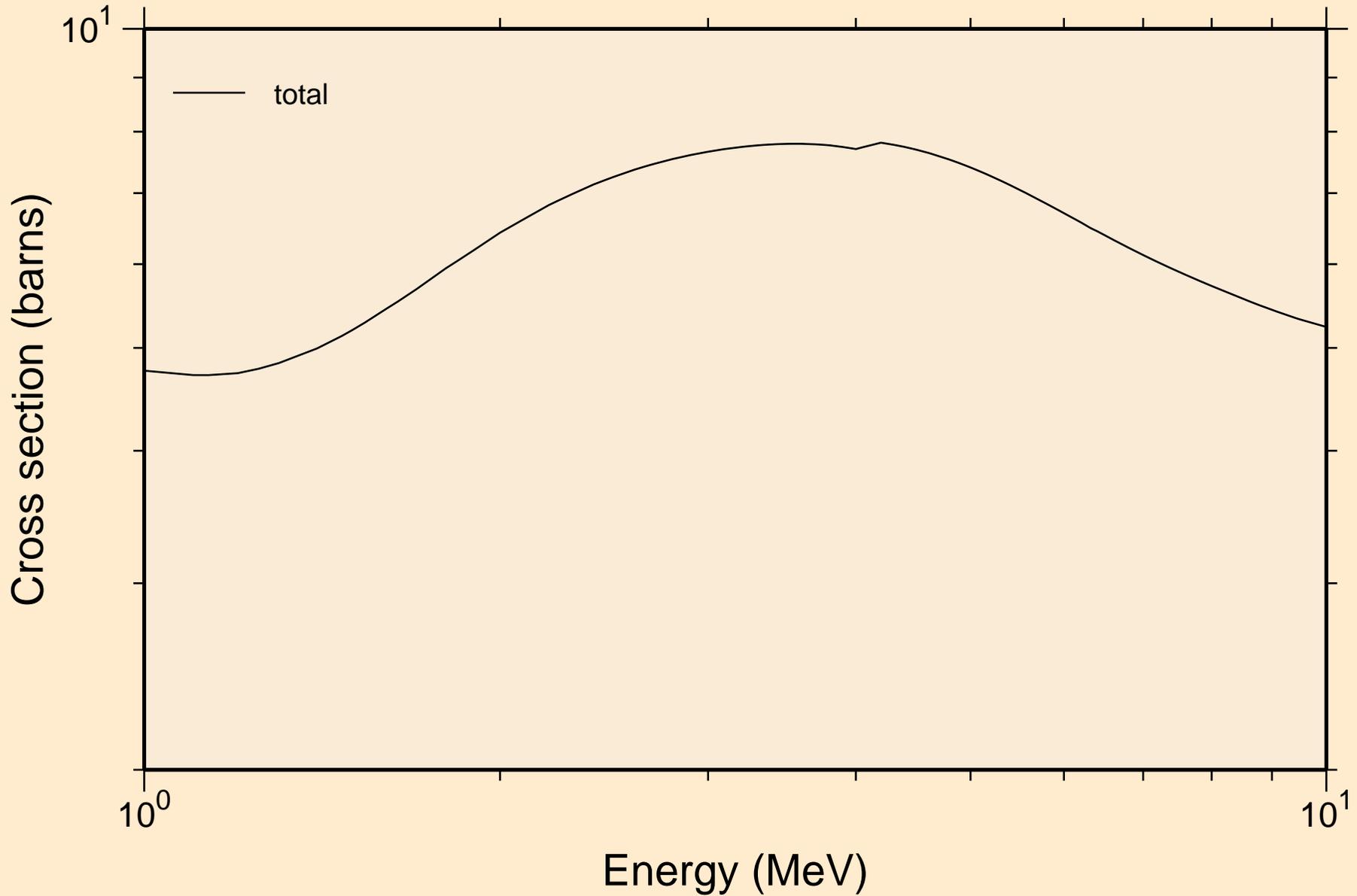
RN220 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
resonance total cross section



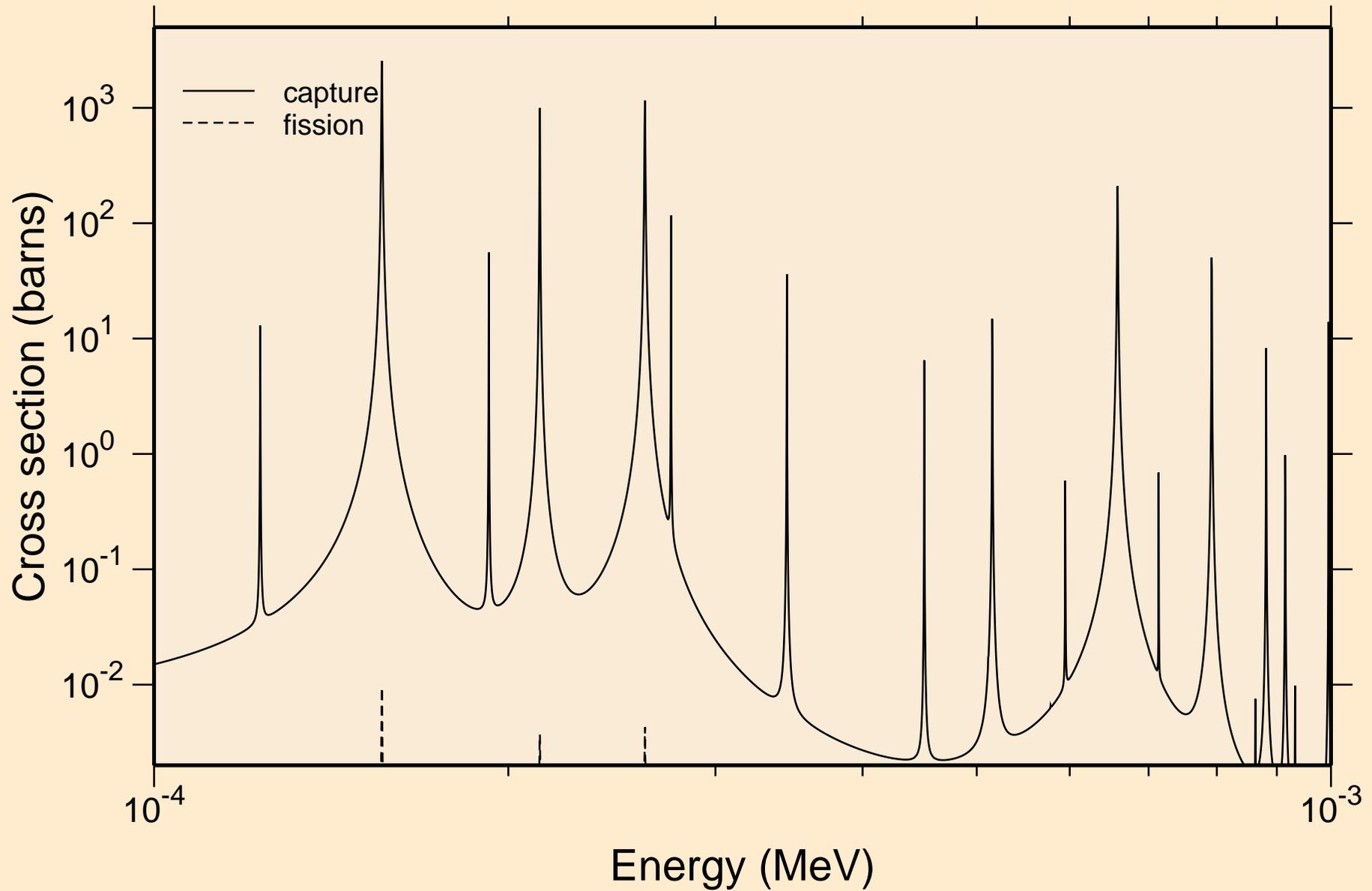
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resonance total cross section



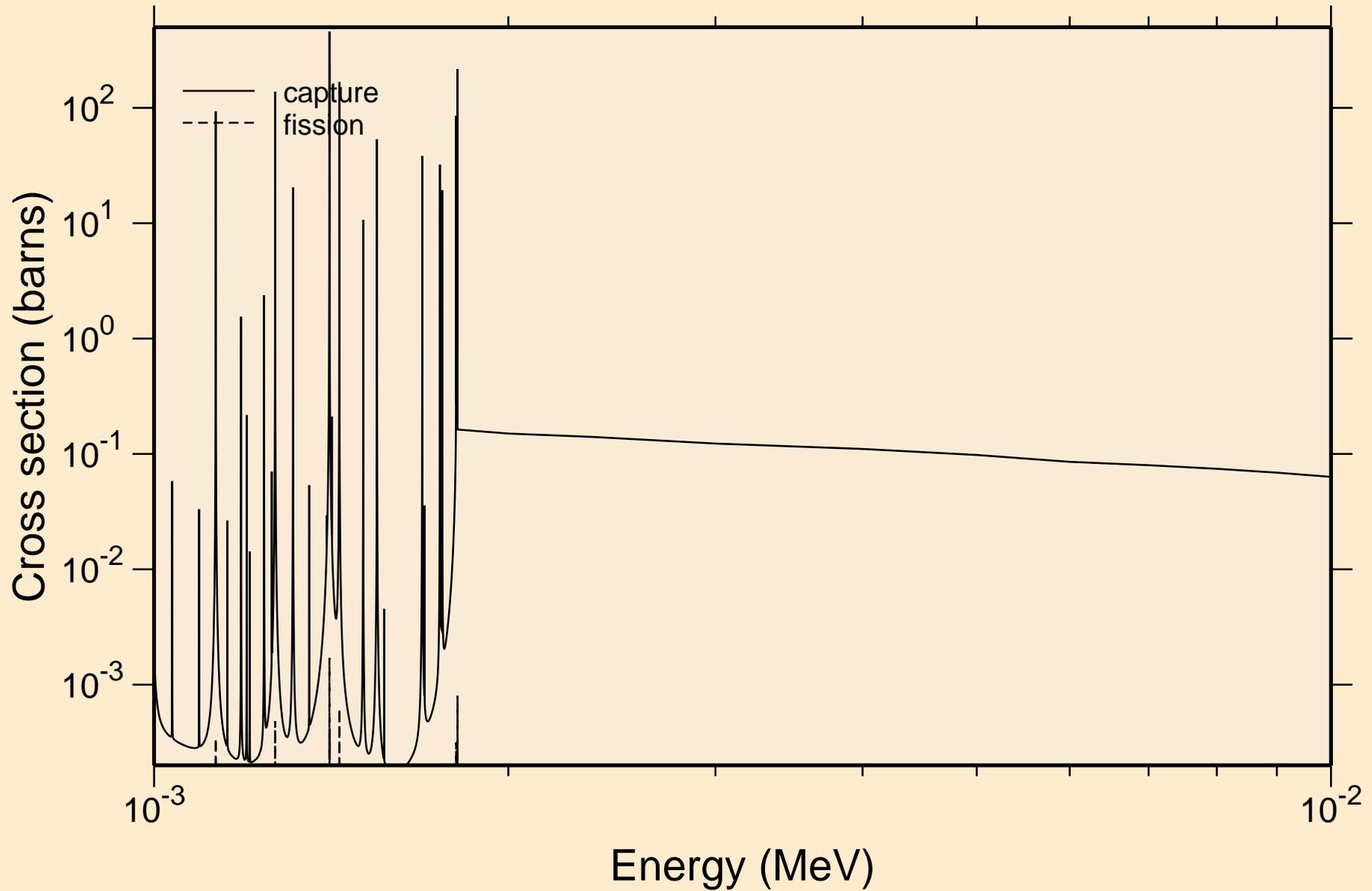
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resonance total cross section



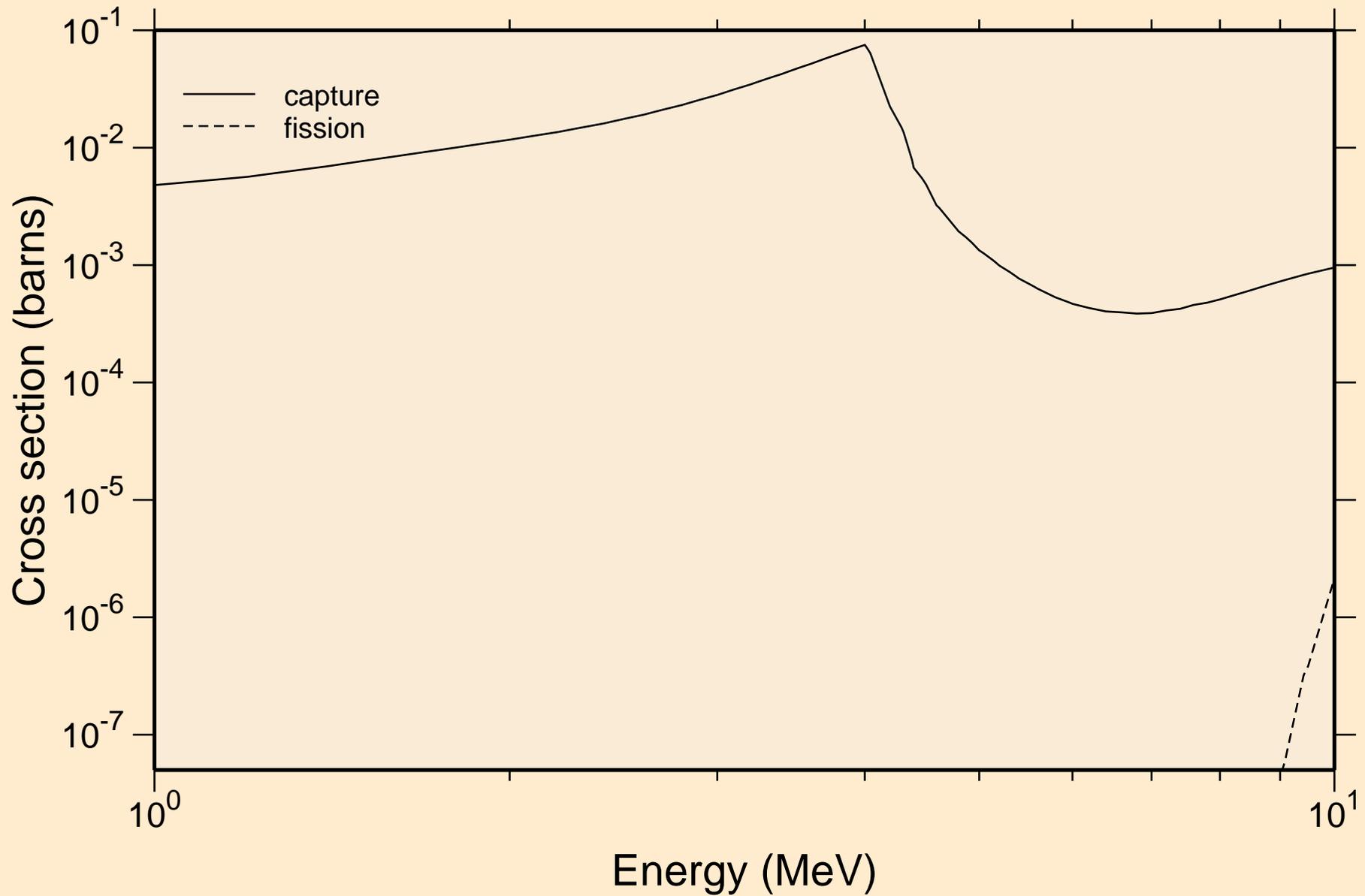
RN220 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
resonance absorption cross sections



RN220 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
resonance absorption cross sections

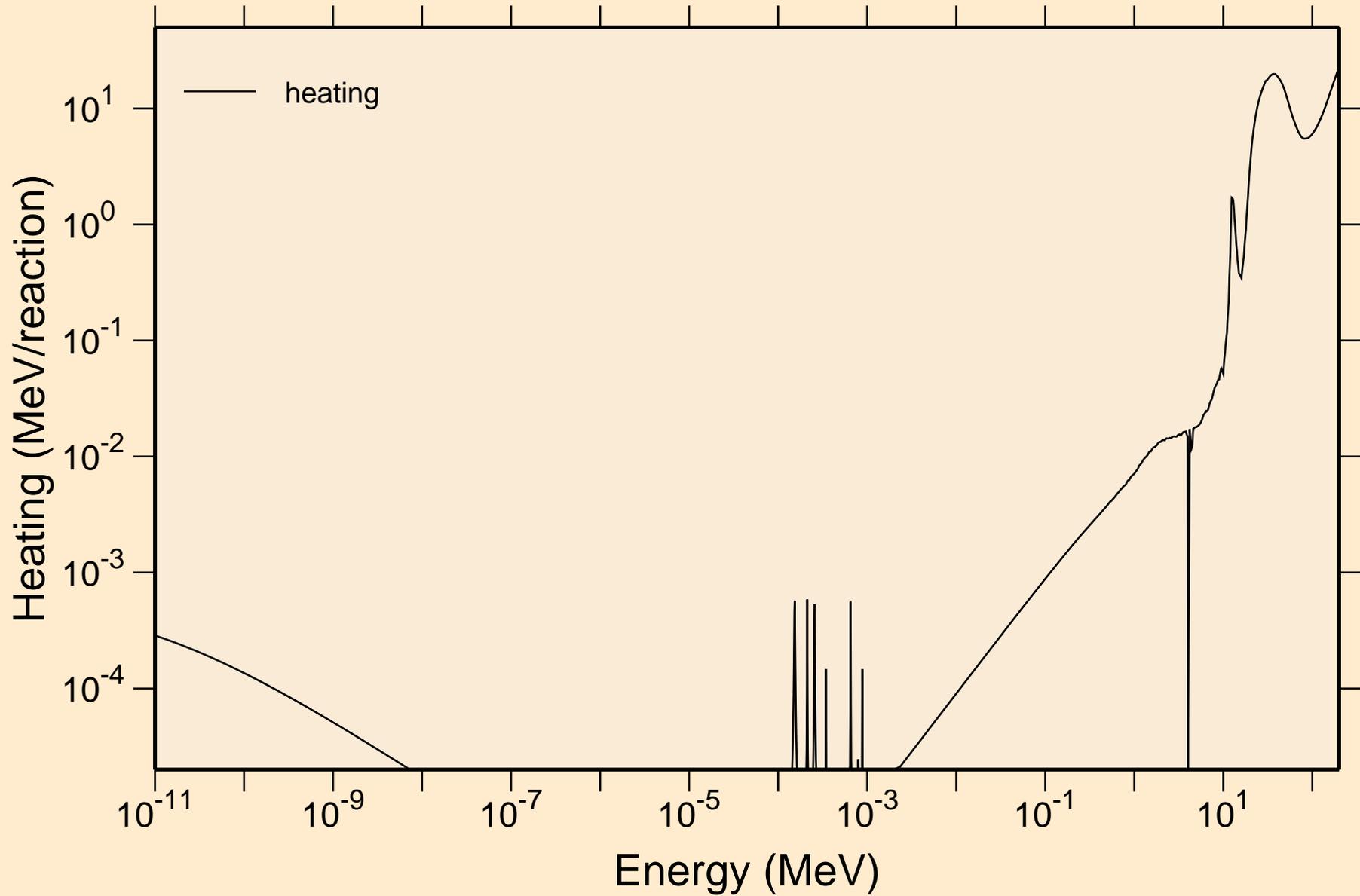


RN220 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
resonance absorption cross sections



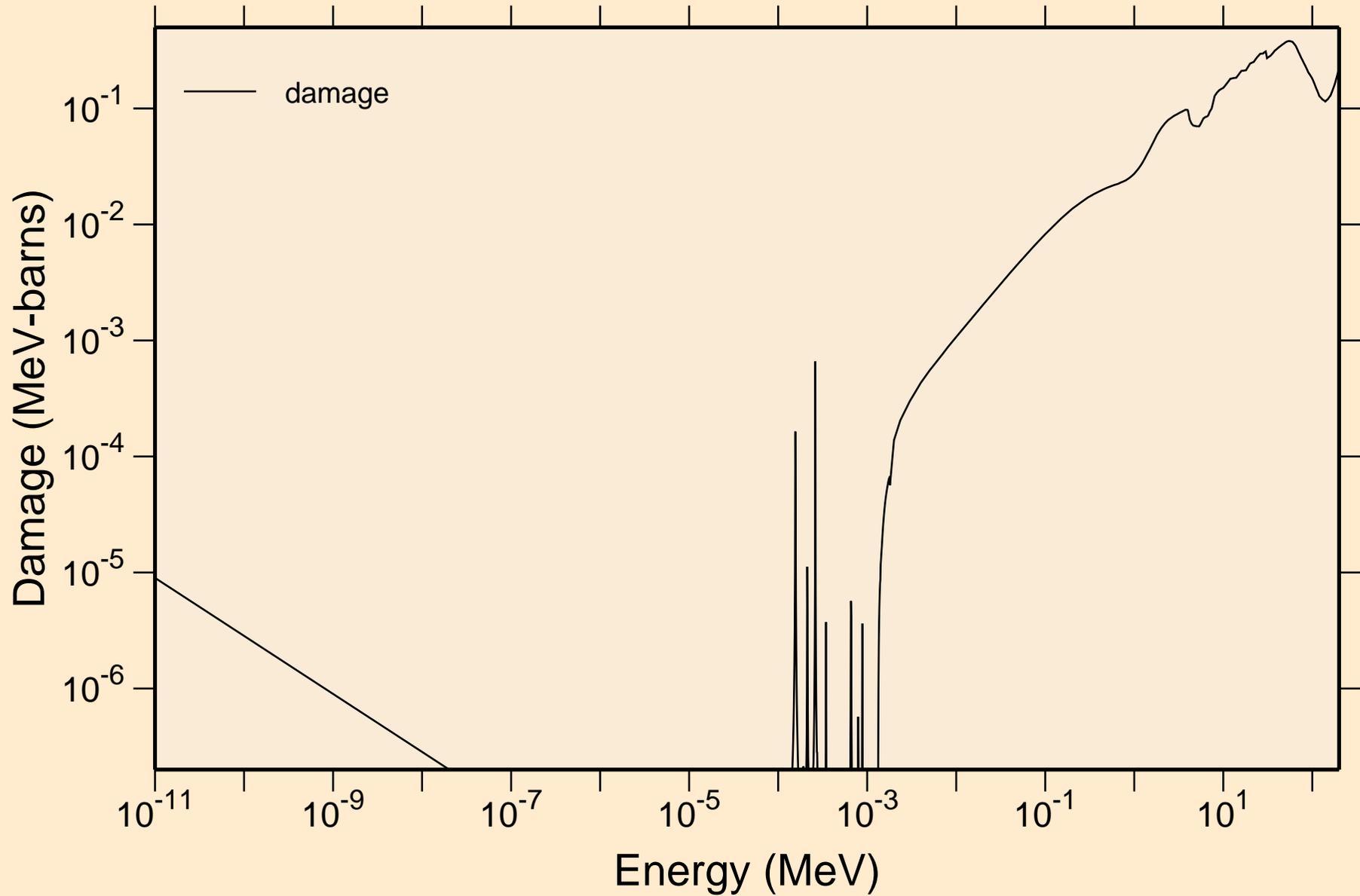
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## Heating



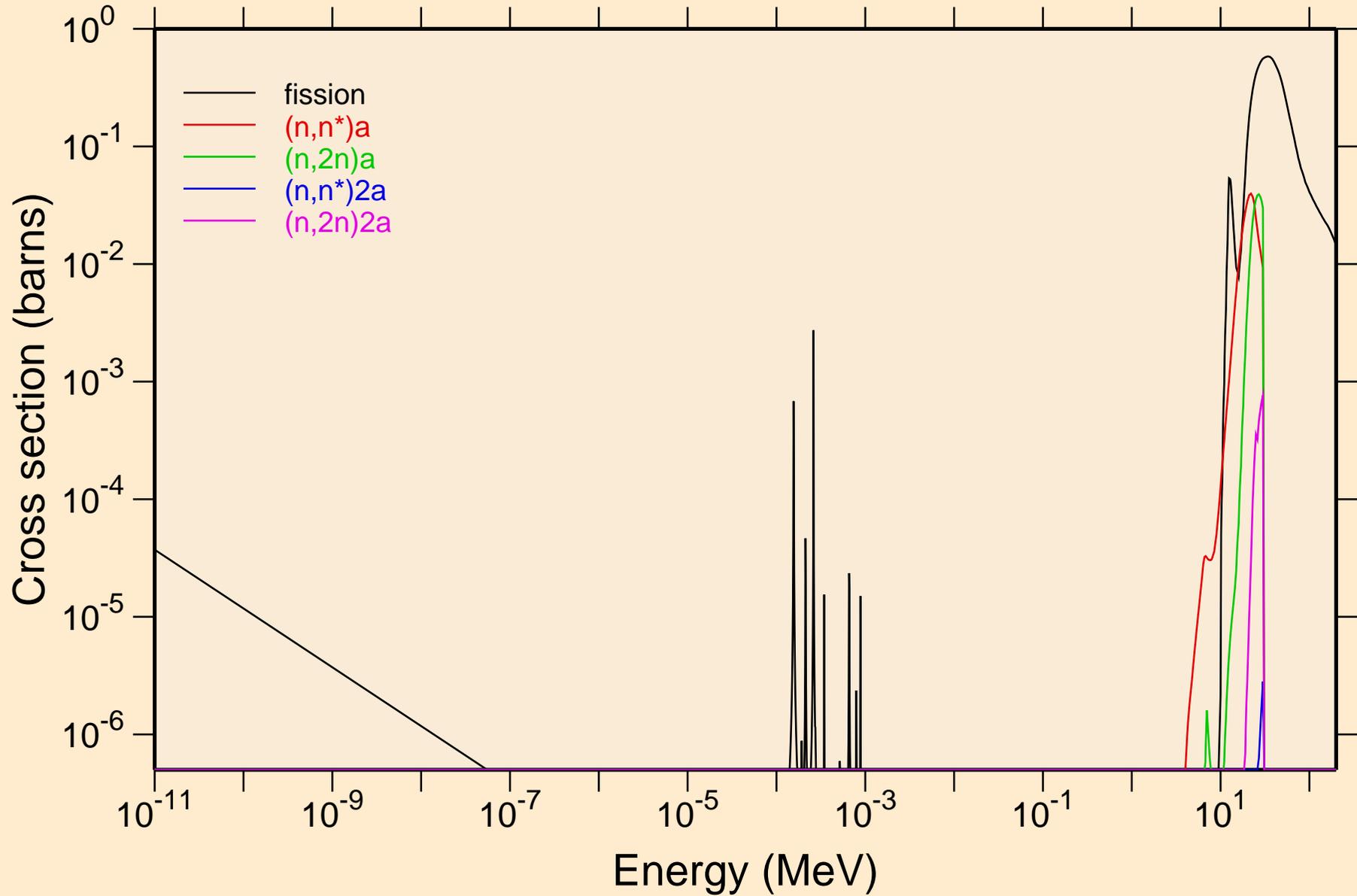
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## Damage



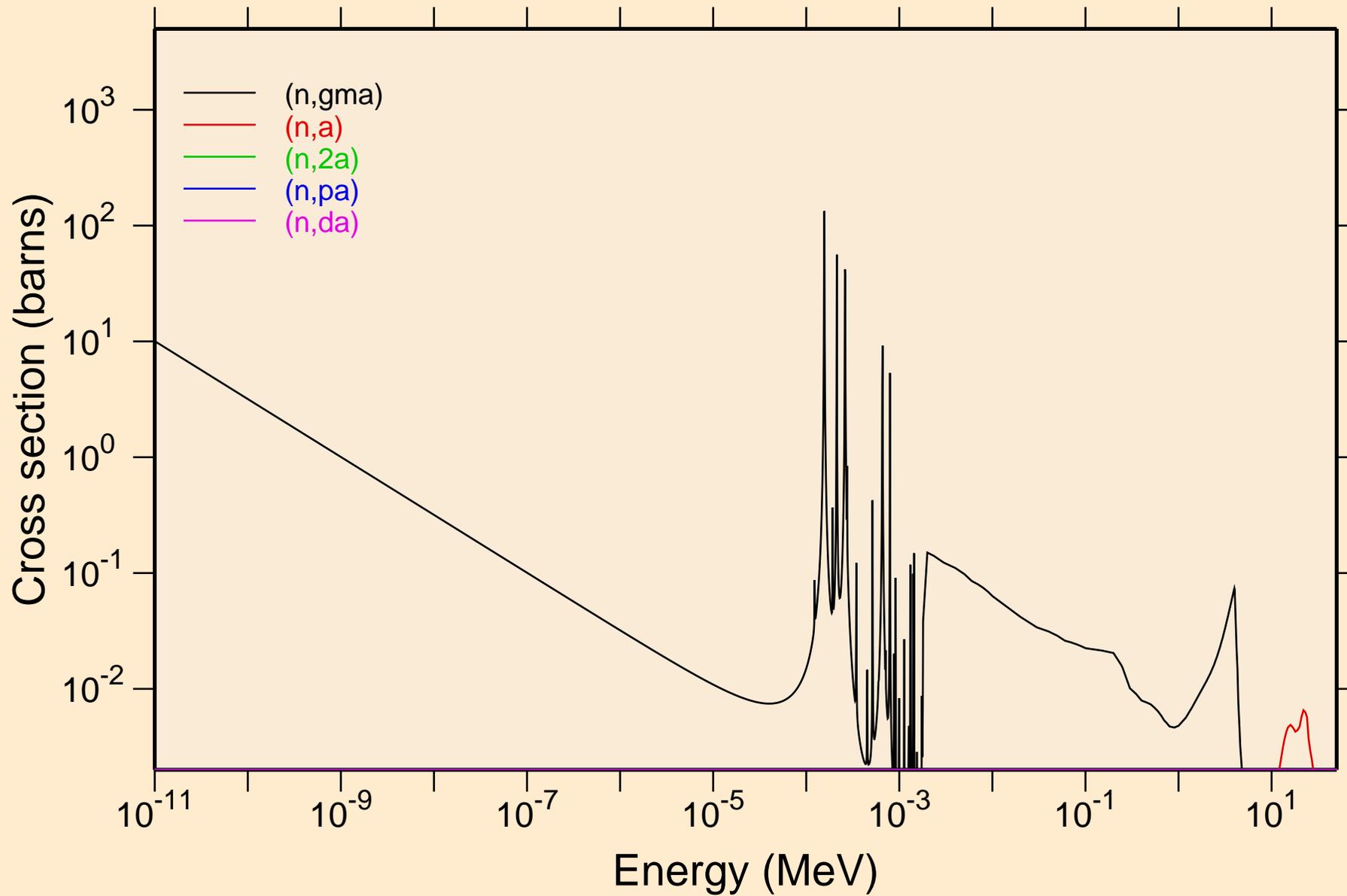
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## Non-threshold reactions

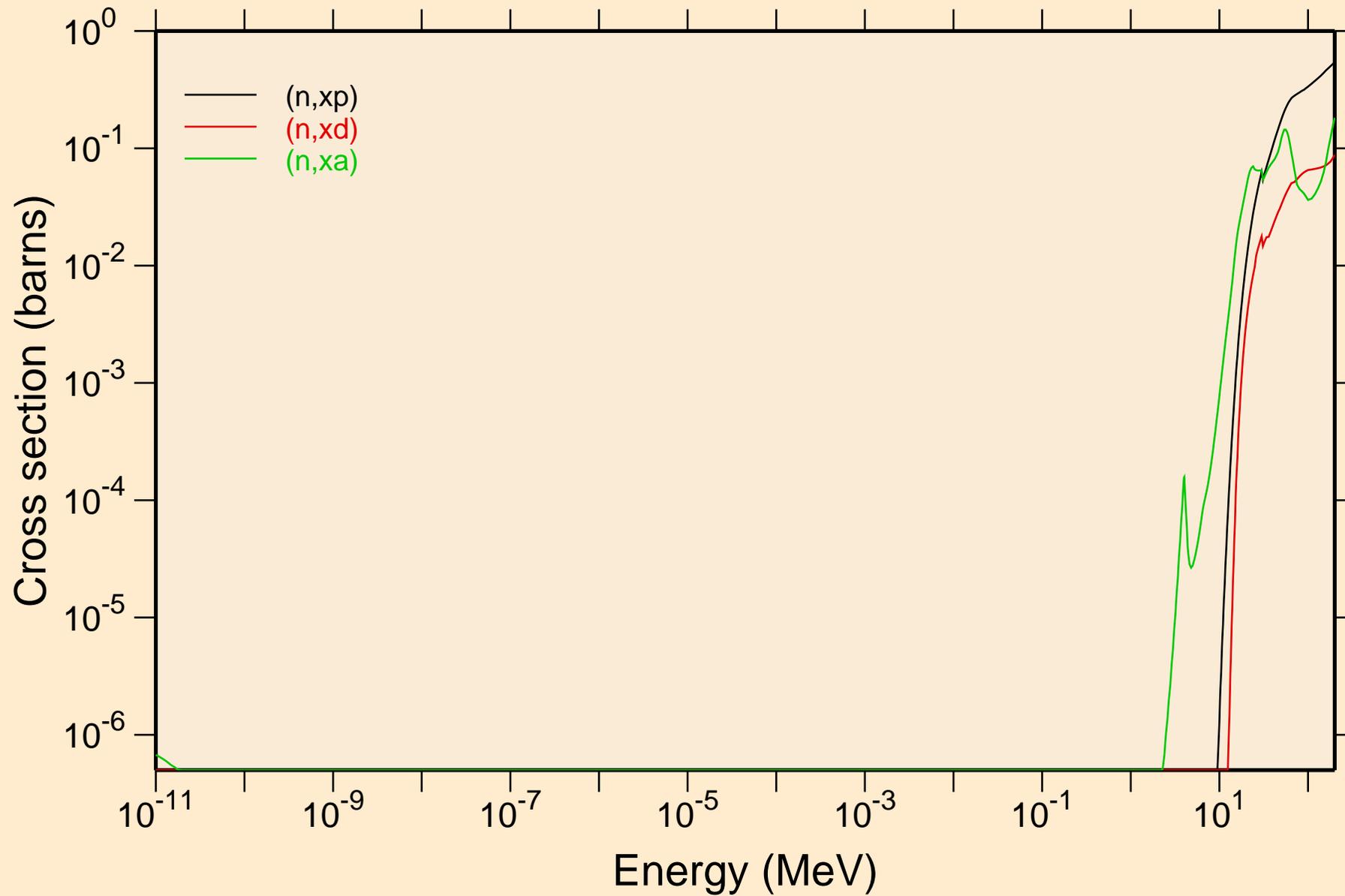


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## Non-threshold reactions

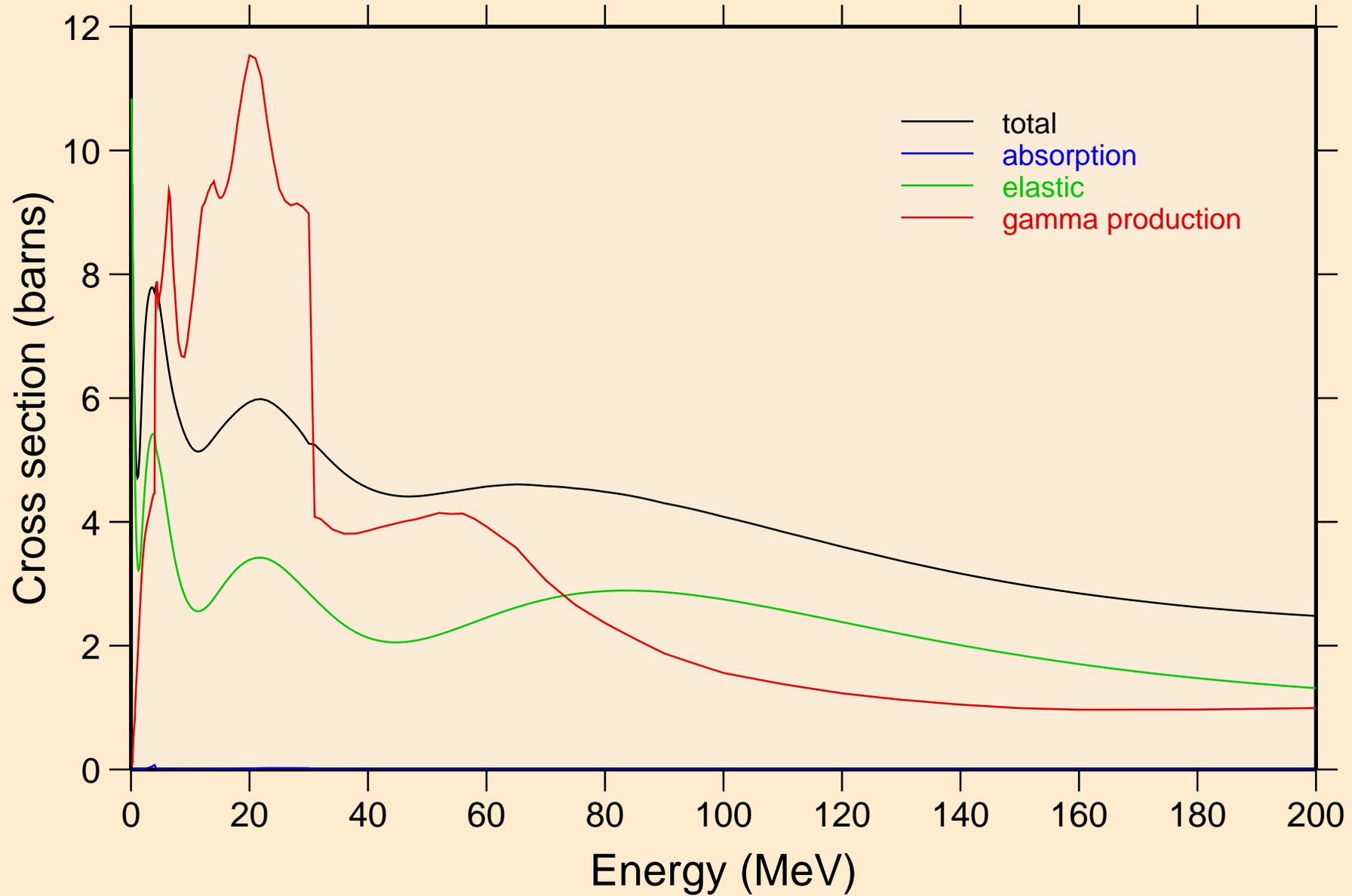


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Non-threshold reactions



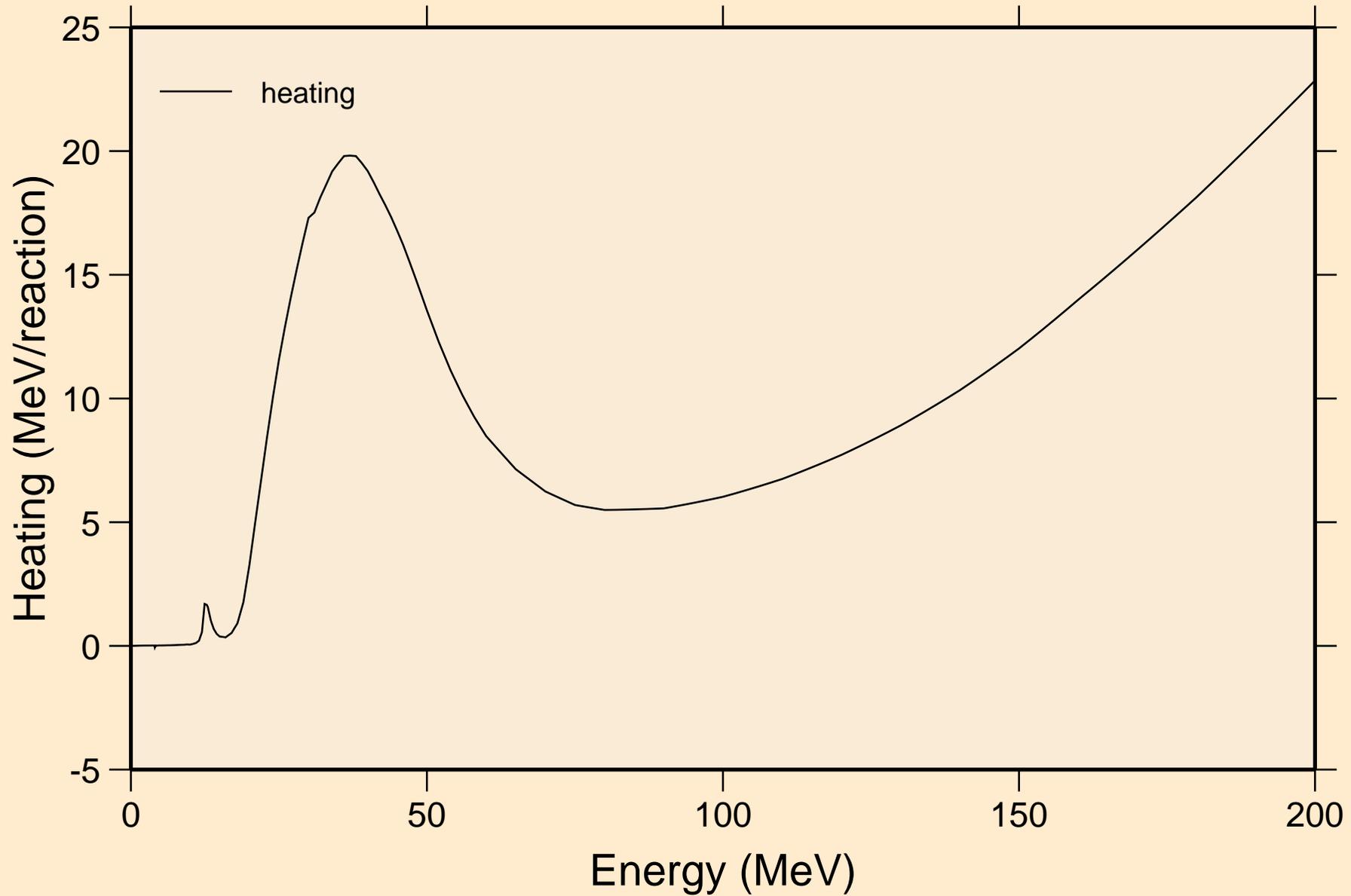
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## Principal cross sections



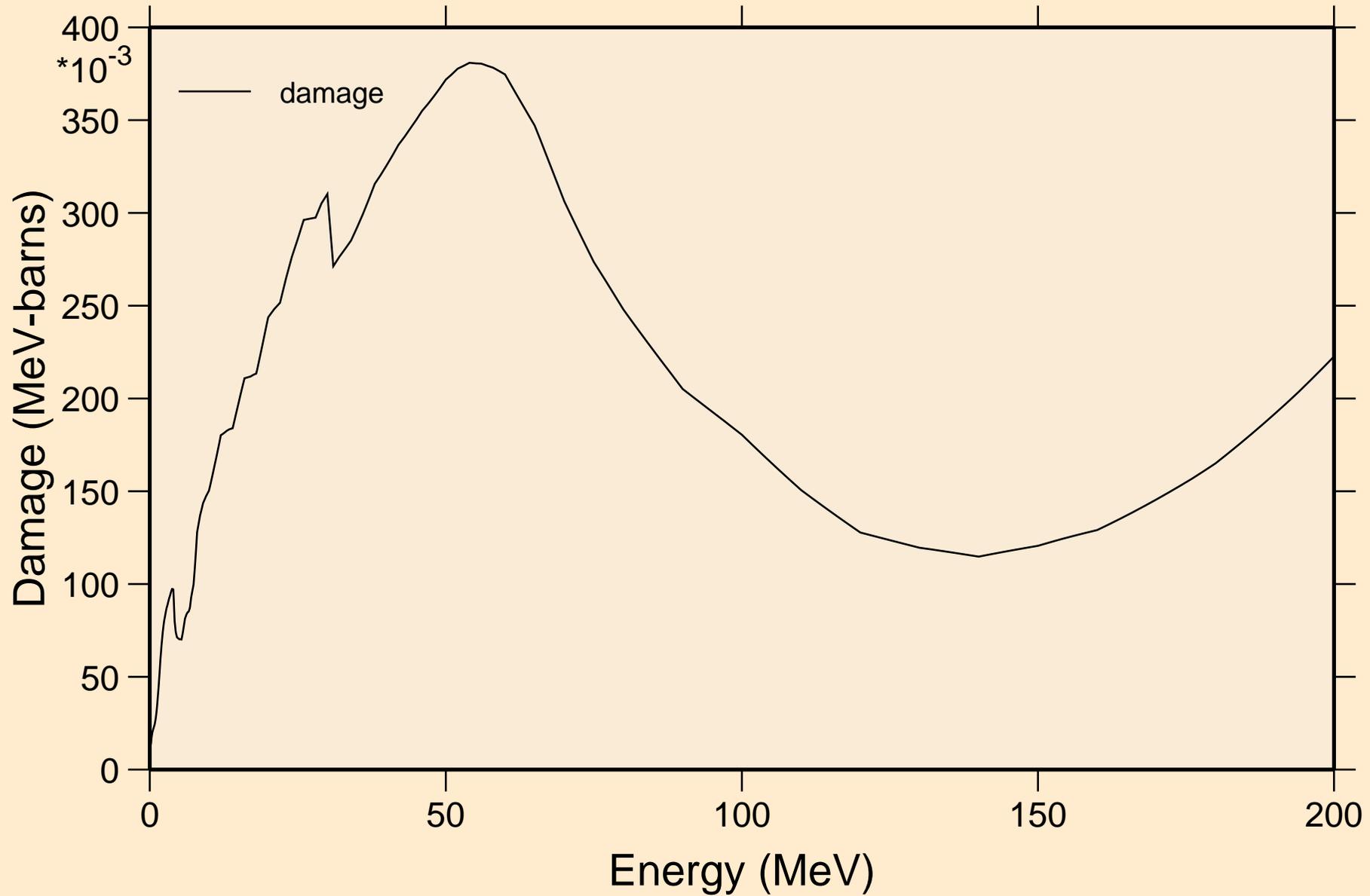
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## Heating



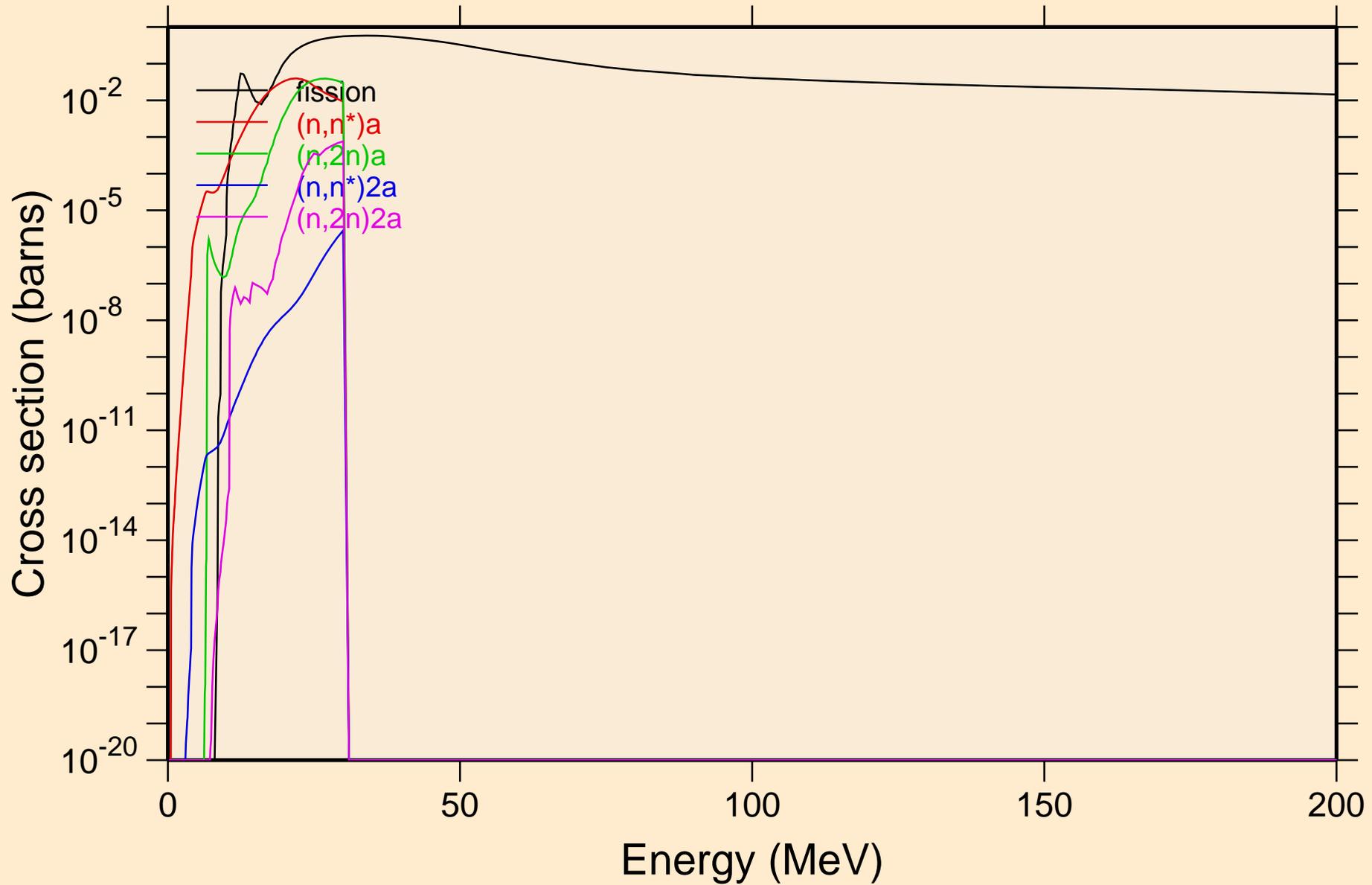
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## Damage



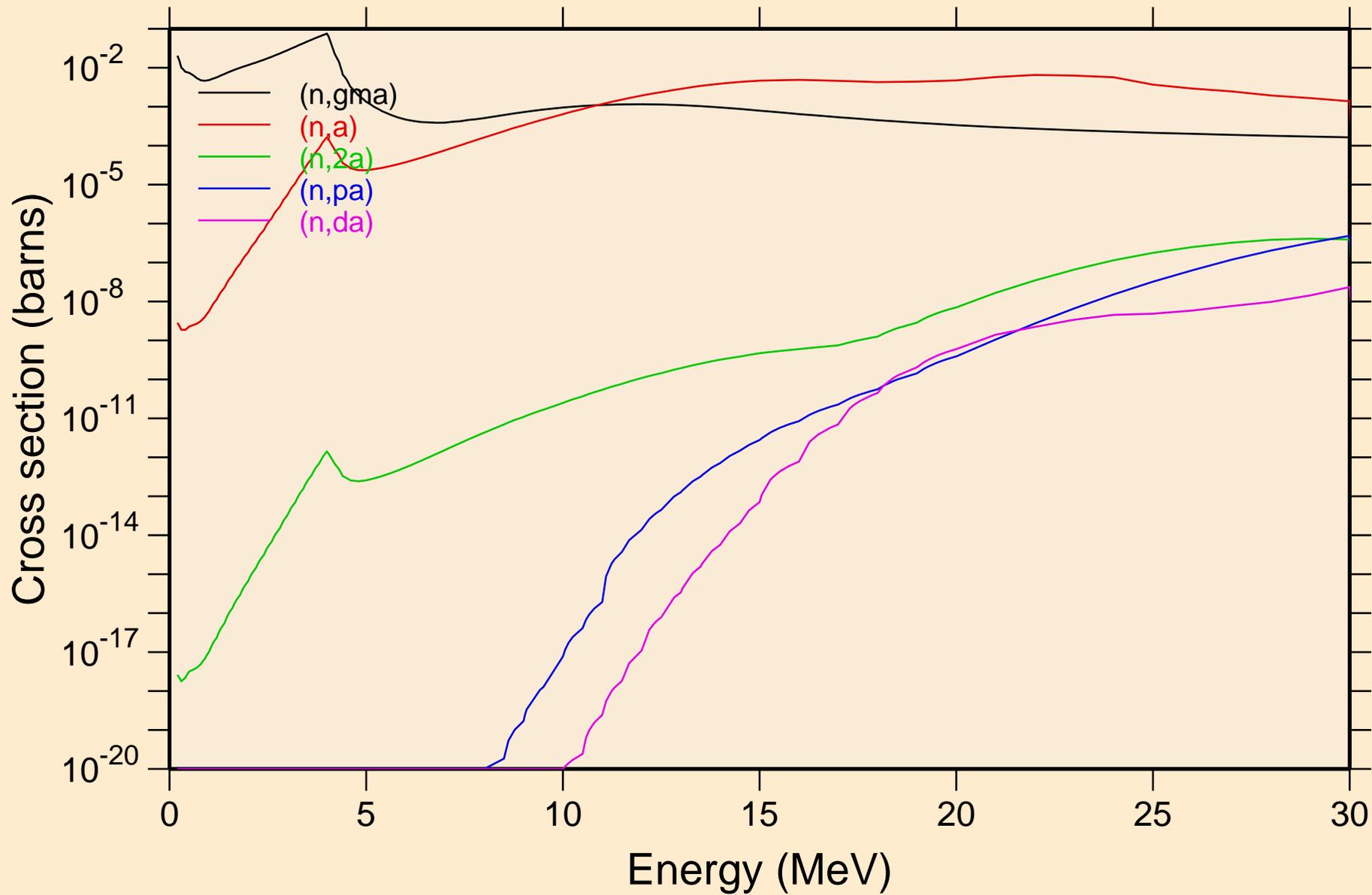
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## Non-threshold reactions

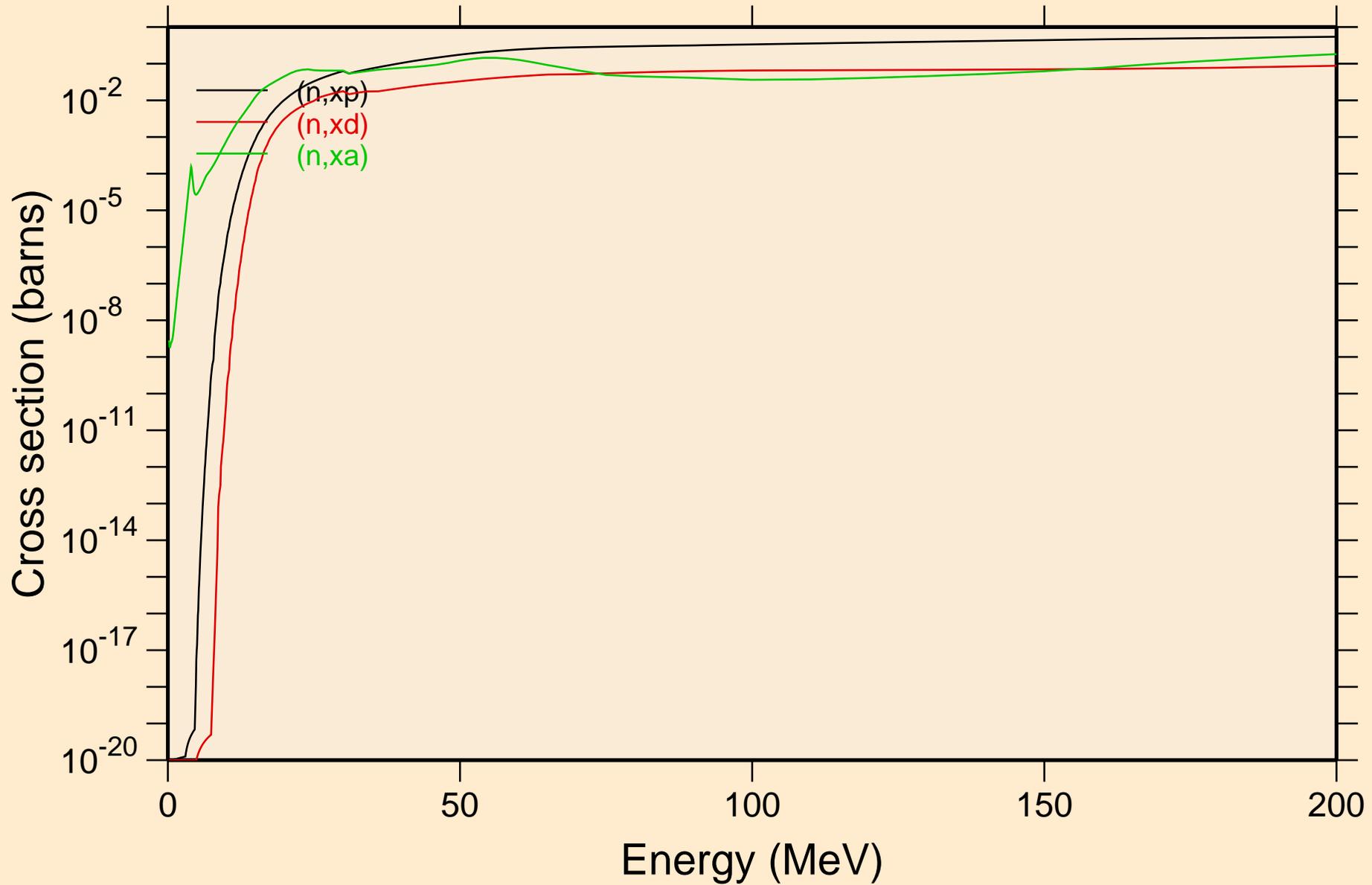


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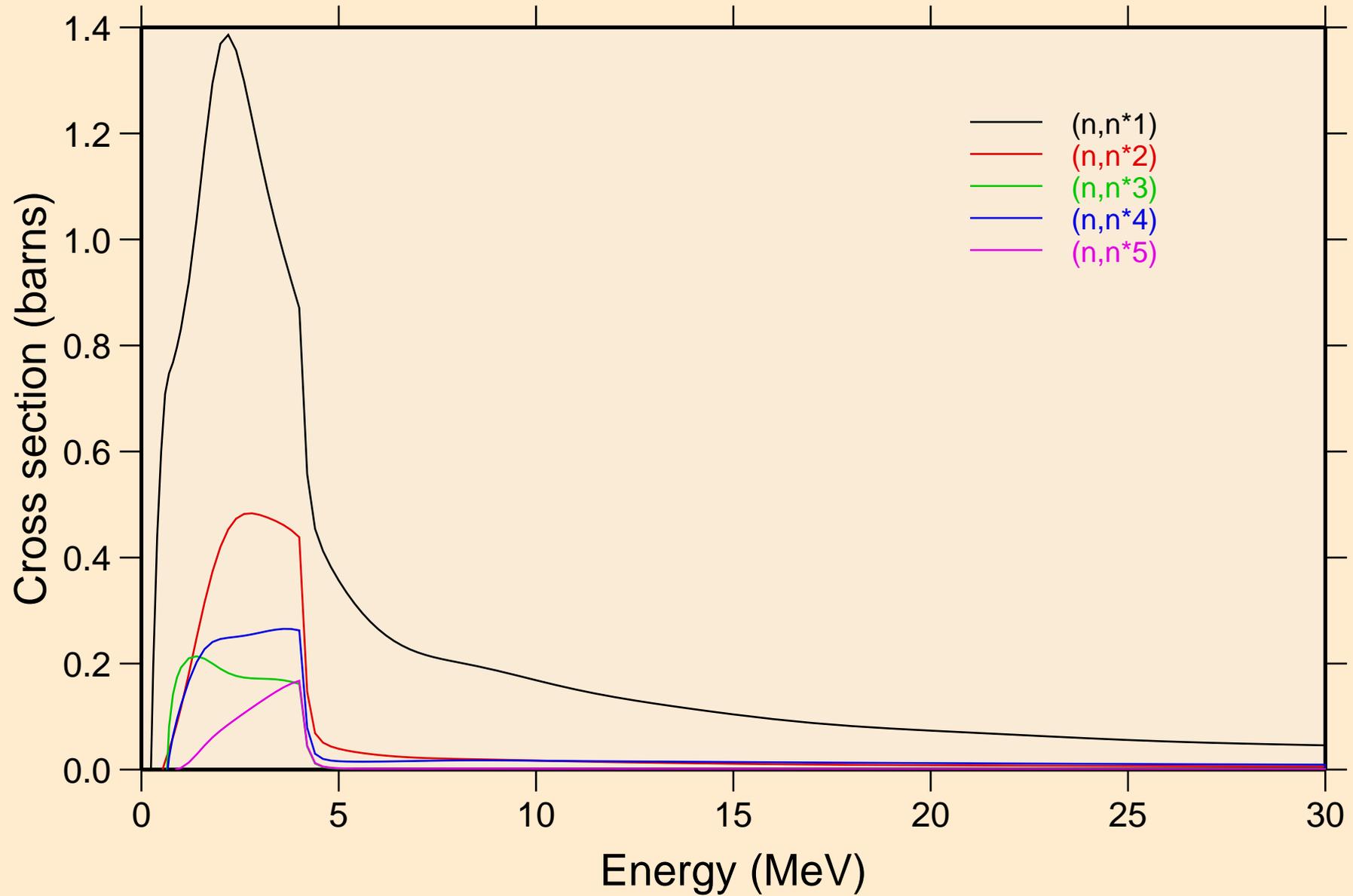
## Non-threshold reactions



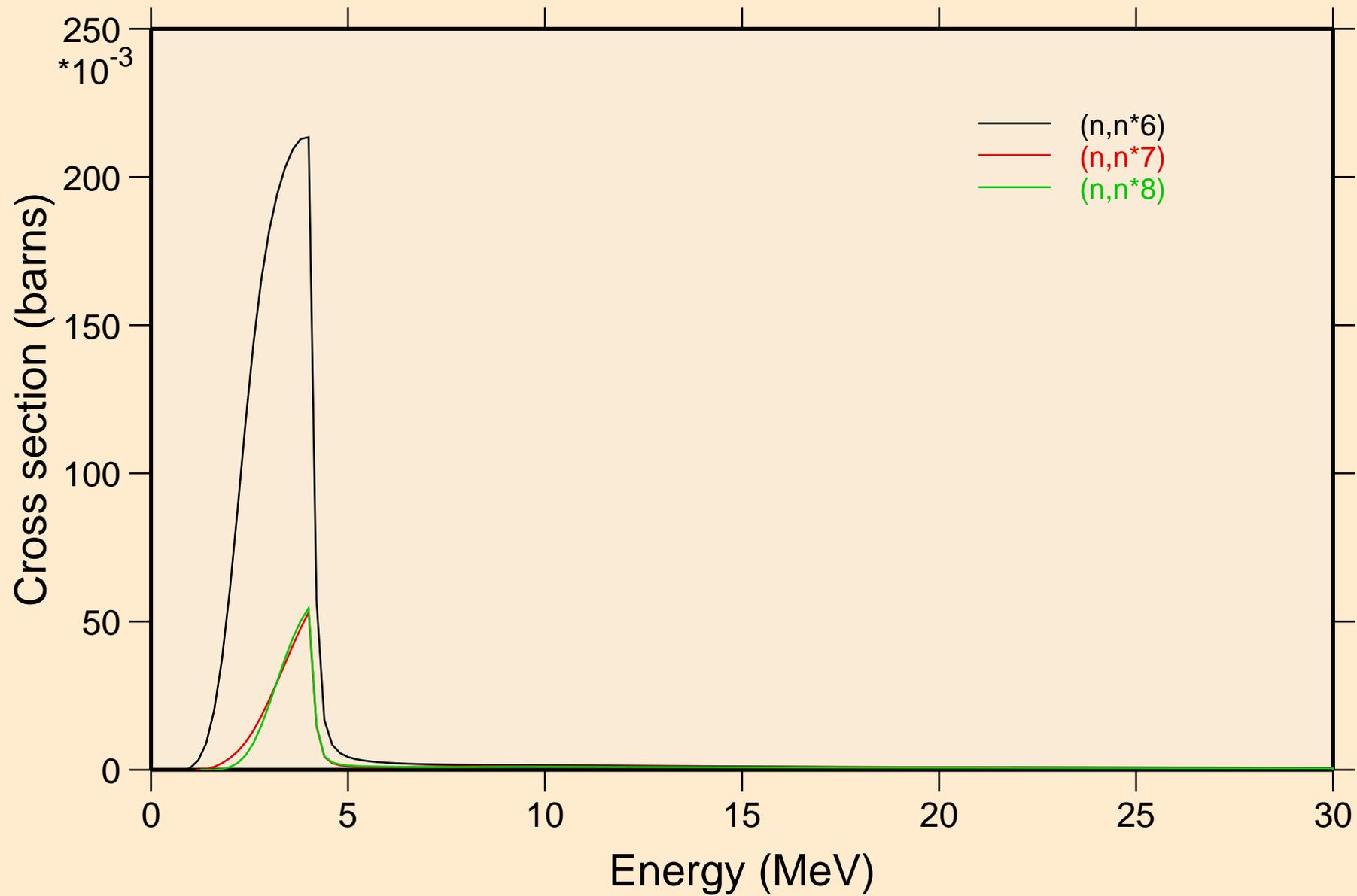
RN220 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Non-threshold reactions



RN220 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Inelastic levels

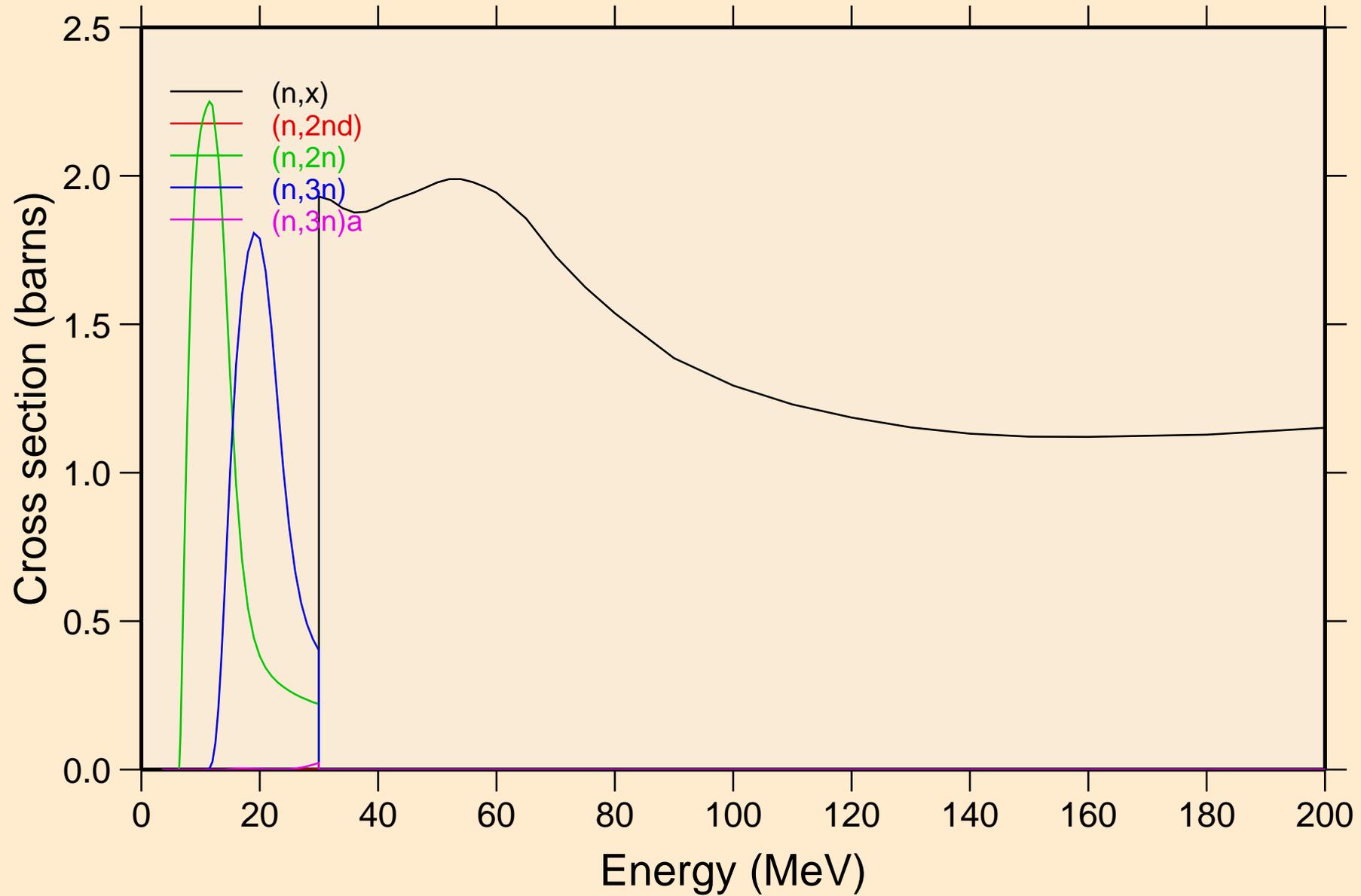


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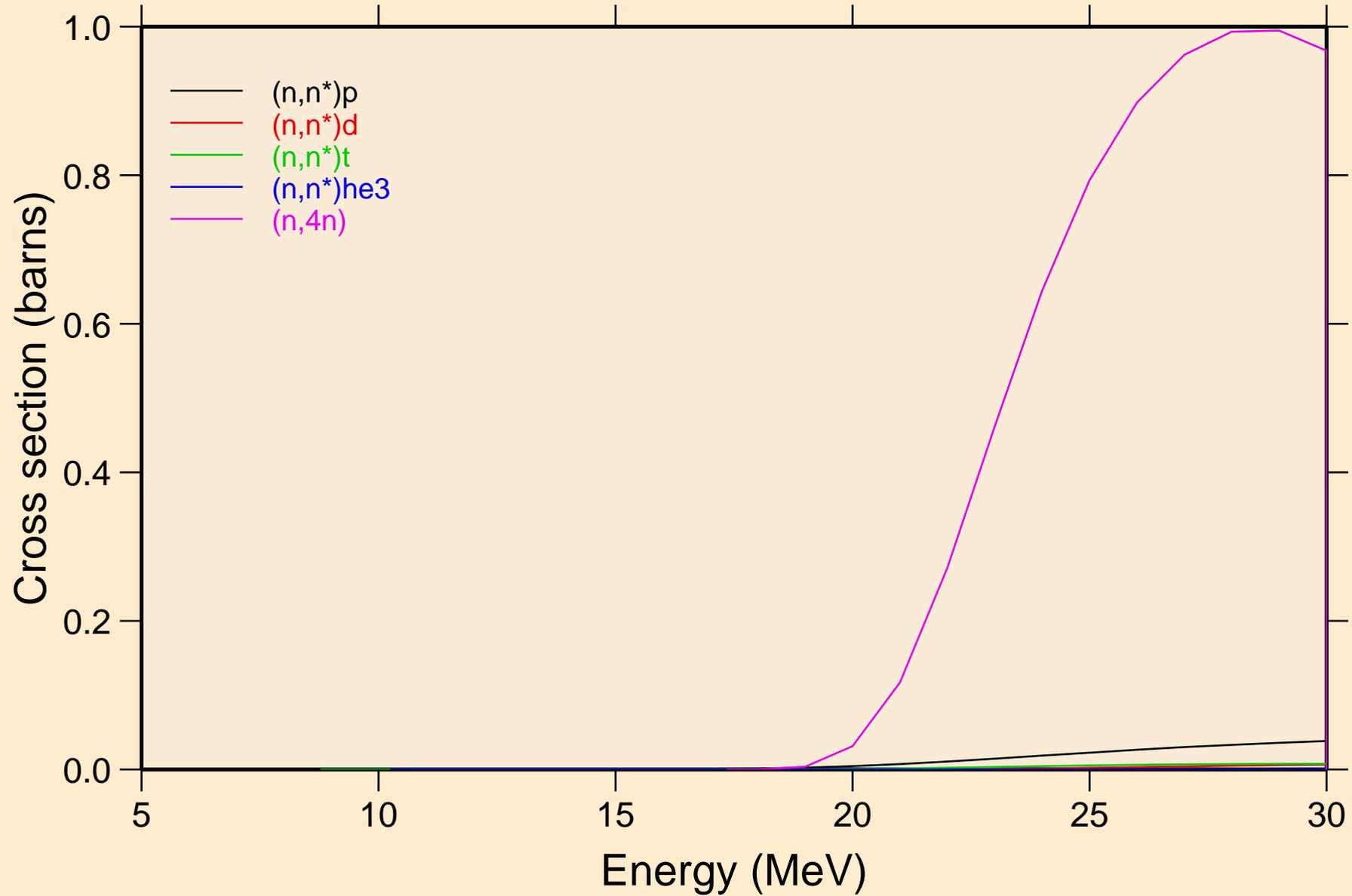


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## Threshold reactions

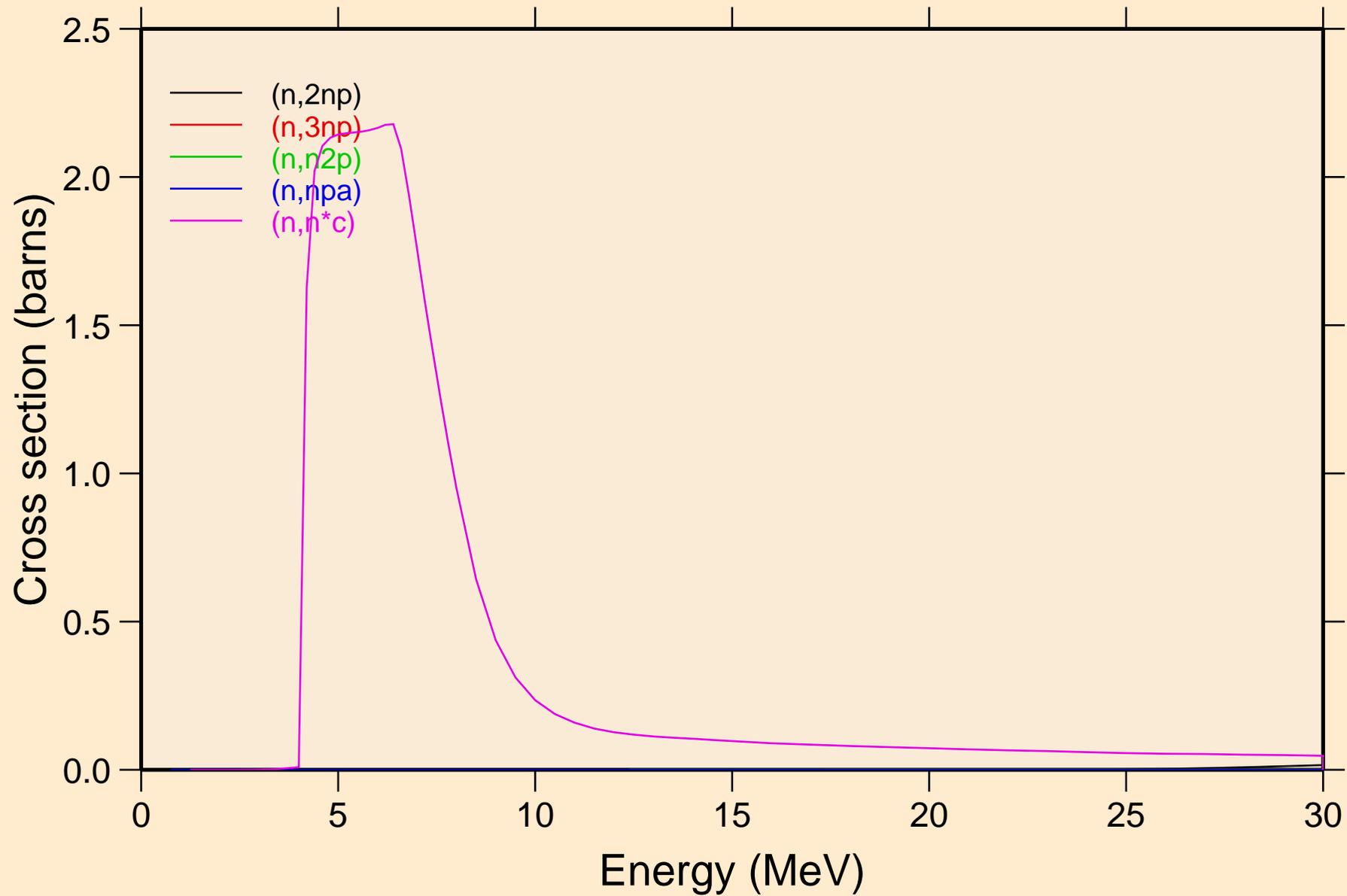


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Threshold reactions

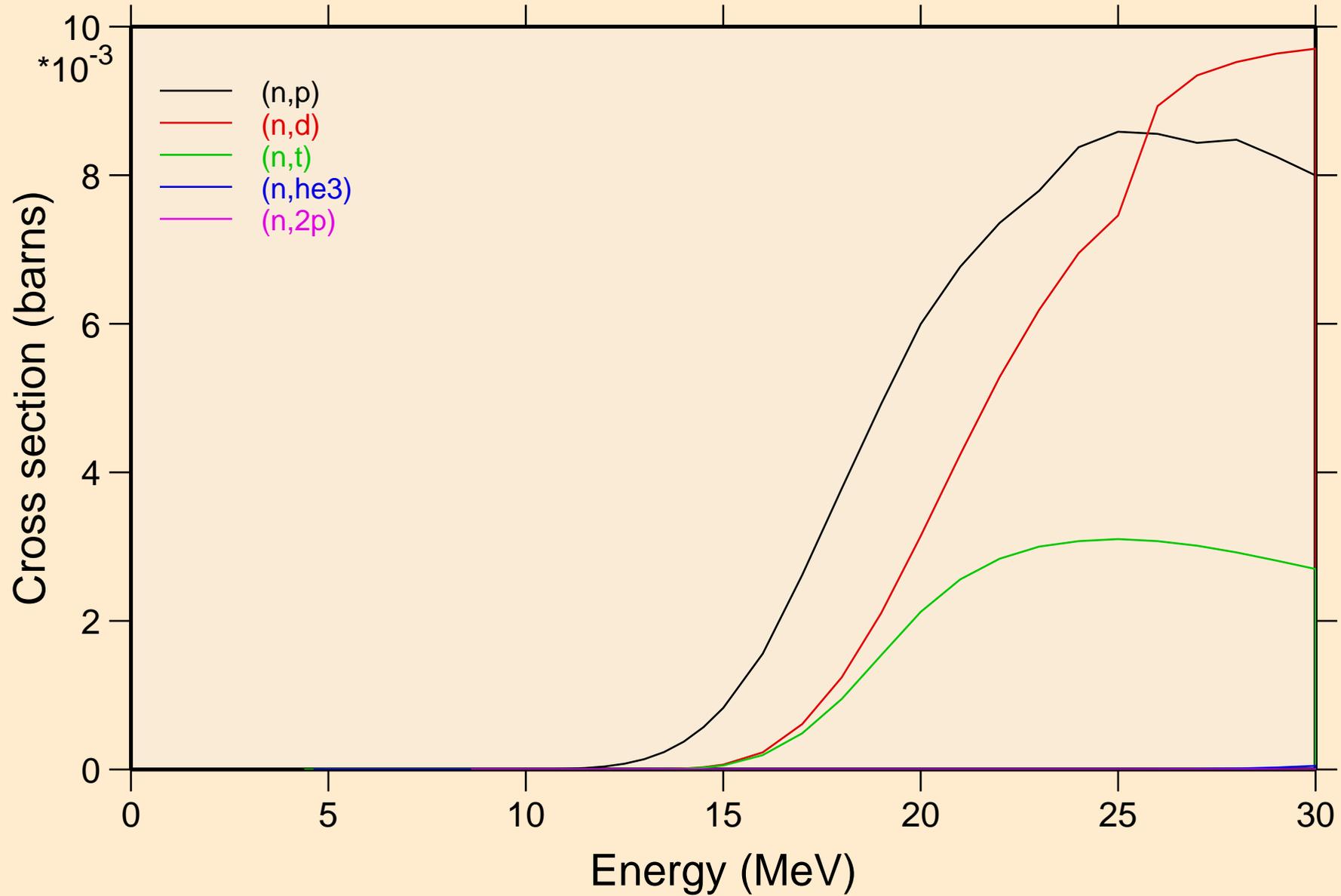


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## Threshold reactions

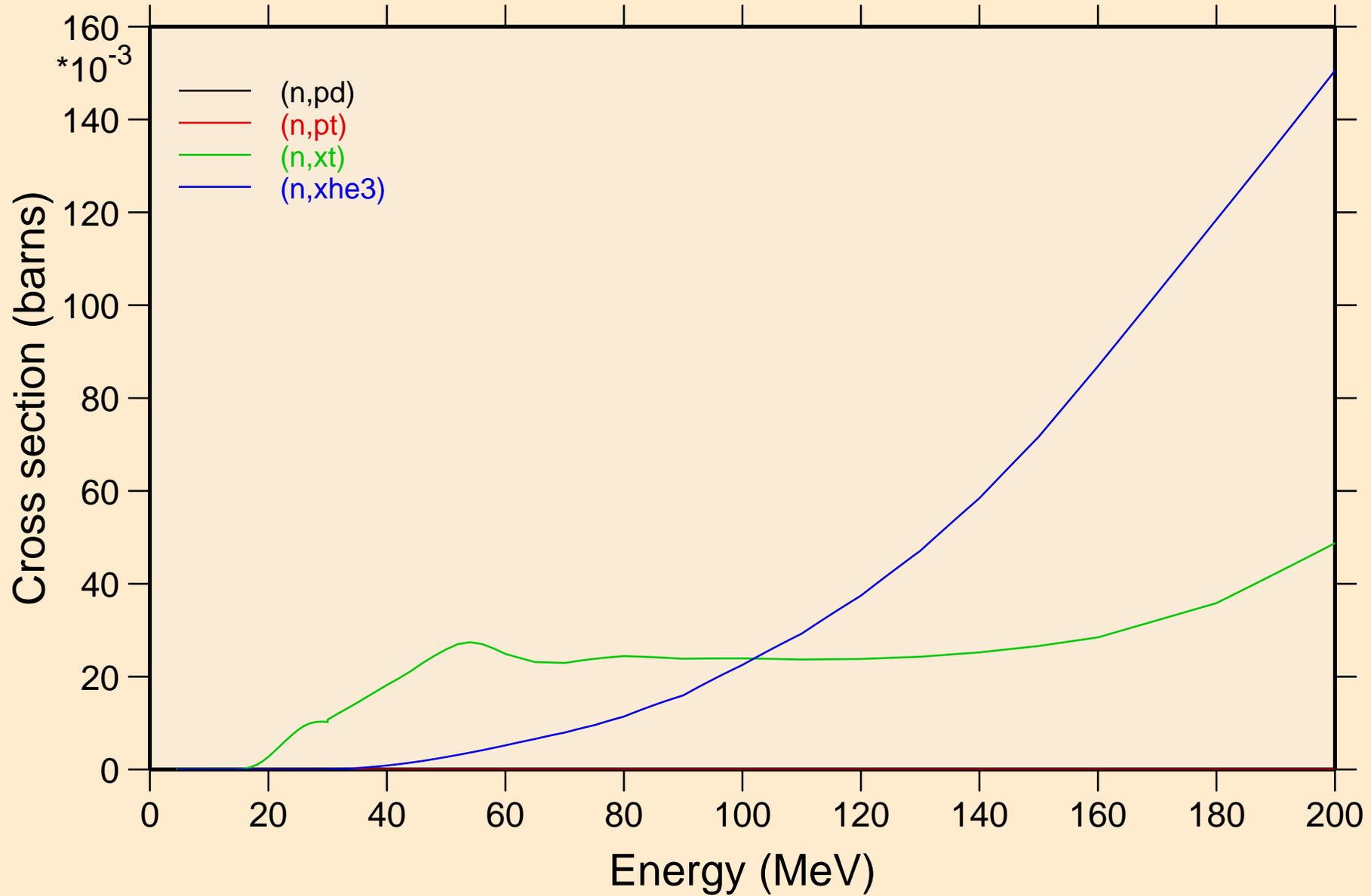


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Threshold reactions

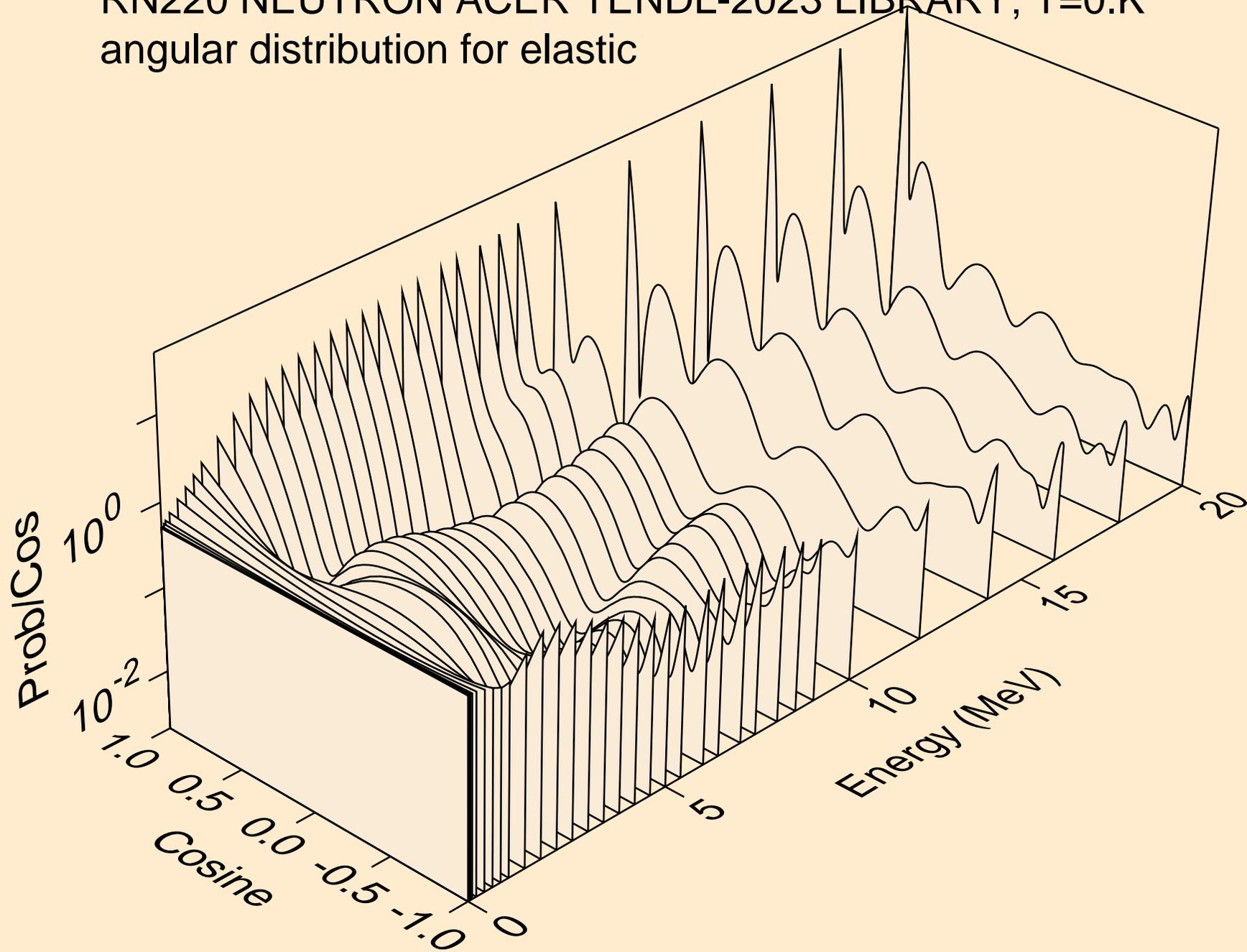


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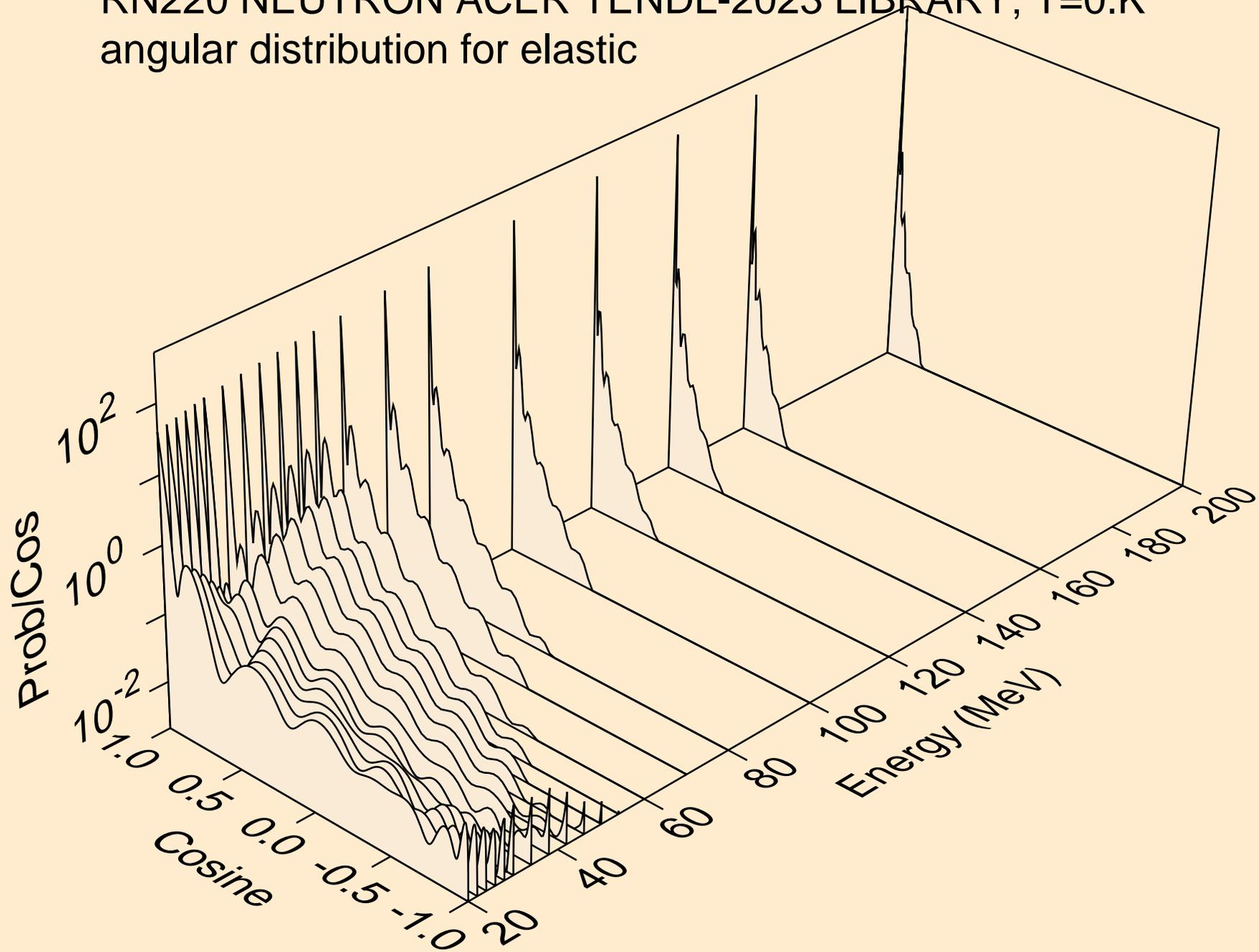
## Threshold reactions



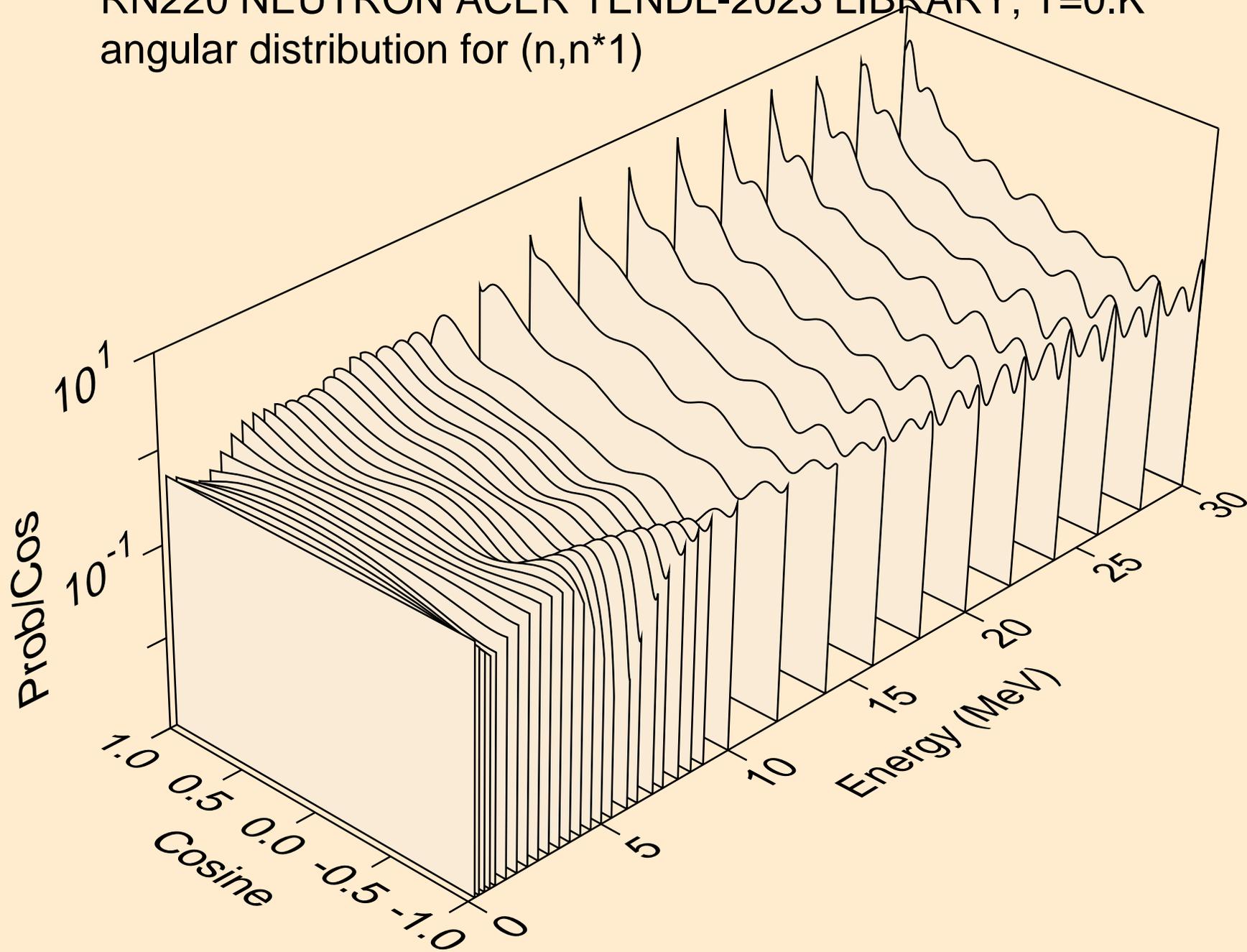
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angular distribution for elastic



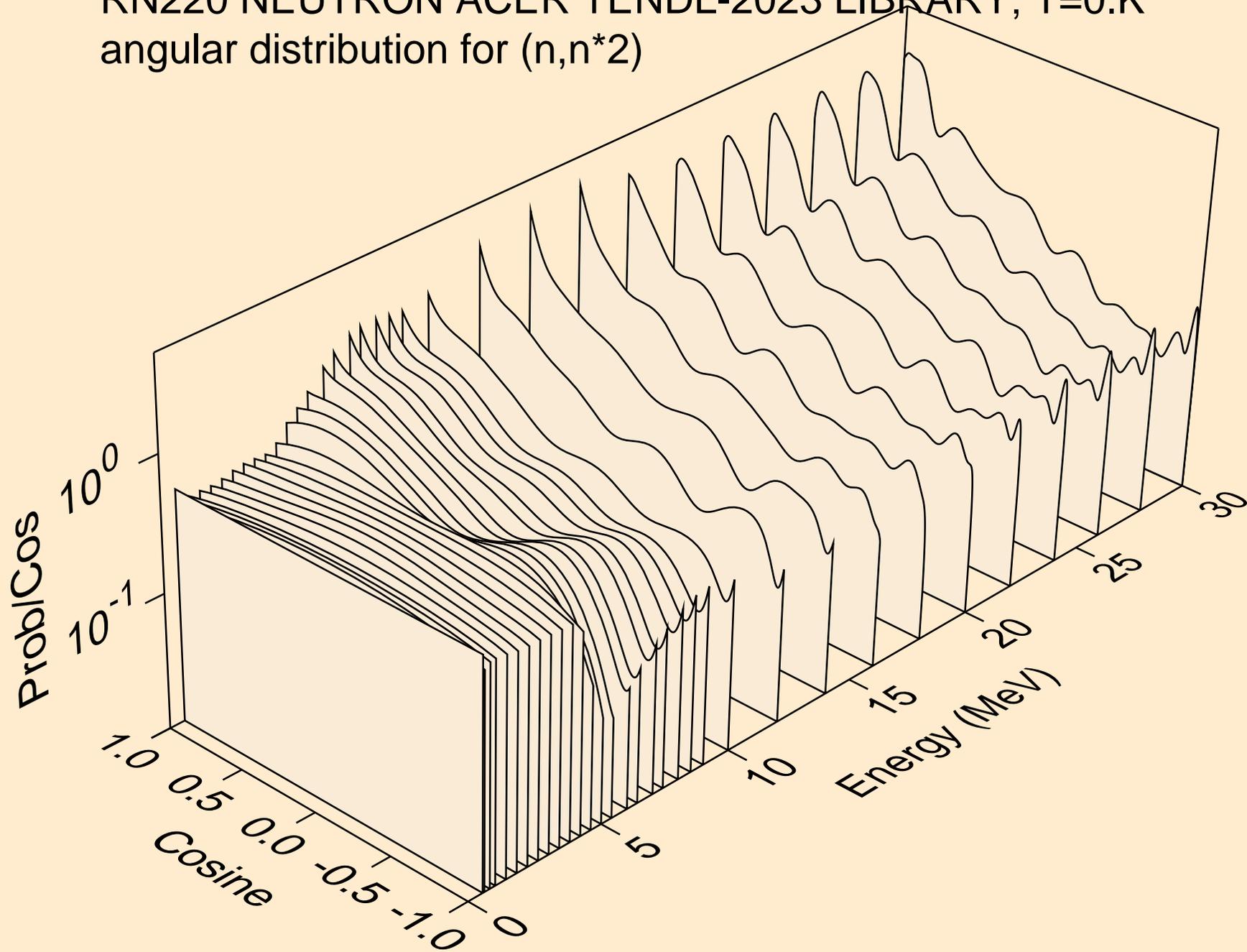
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angular distribution for elastic



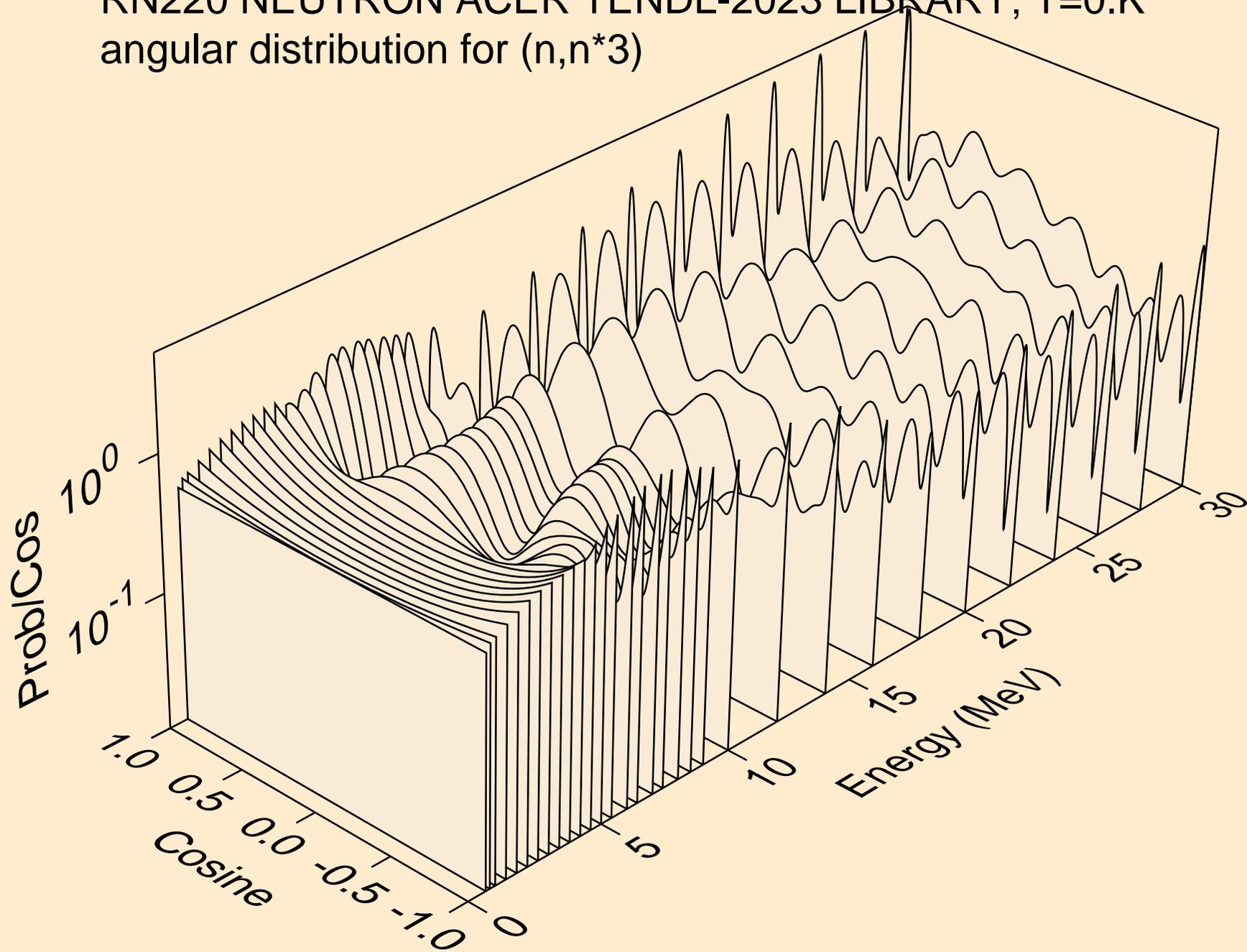
RN220 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*1)



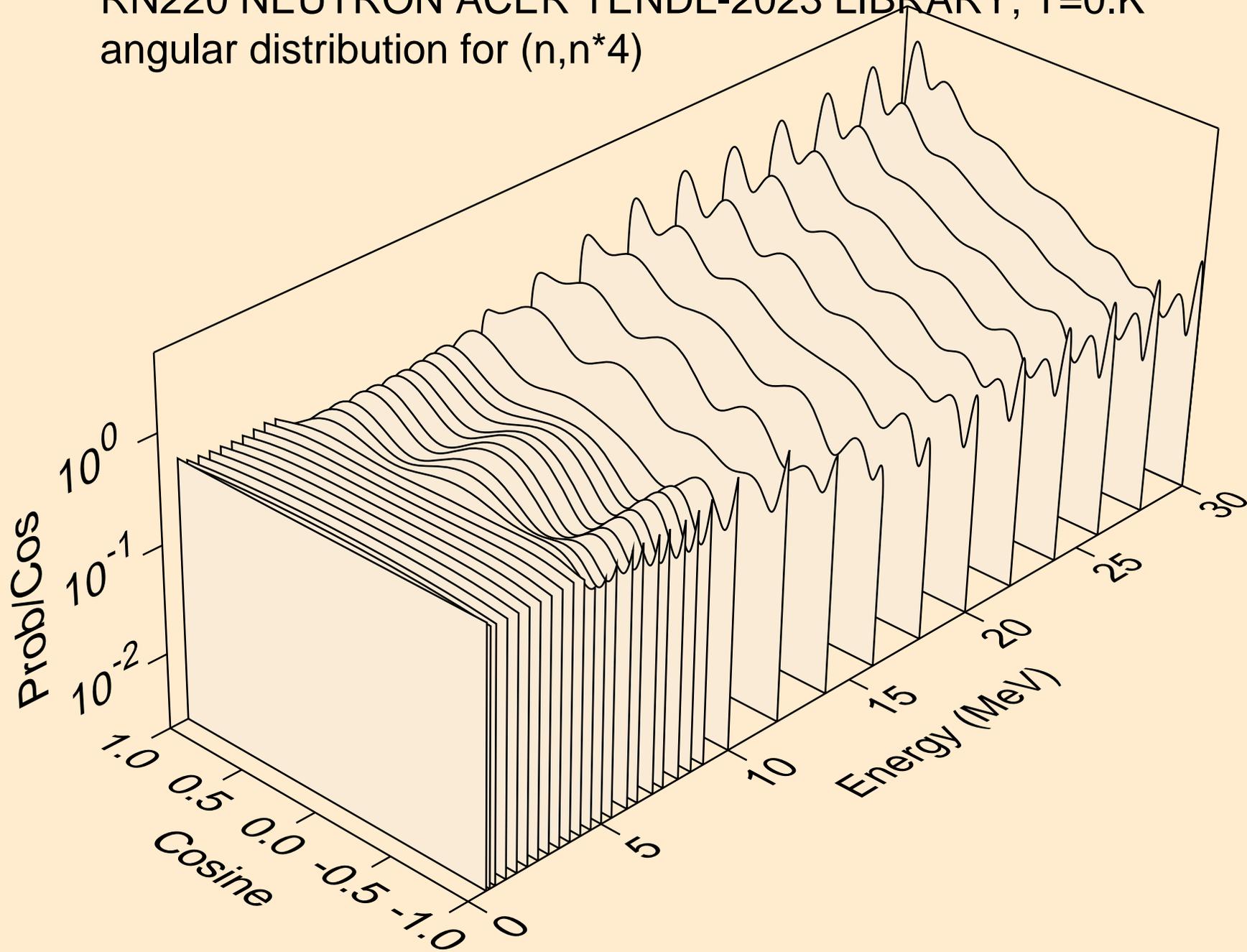
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angular distribution for (n,n\*2)



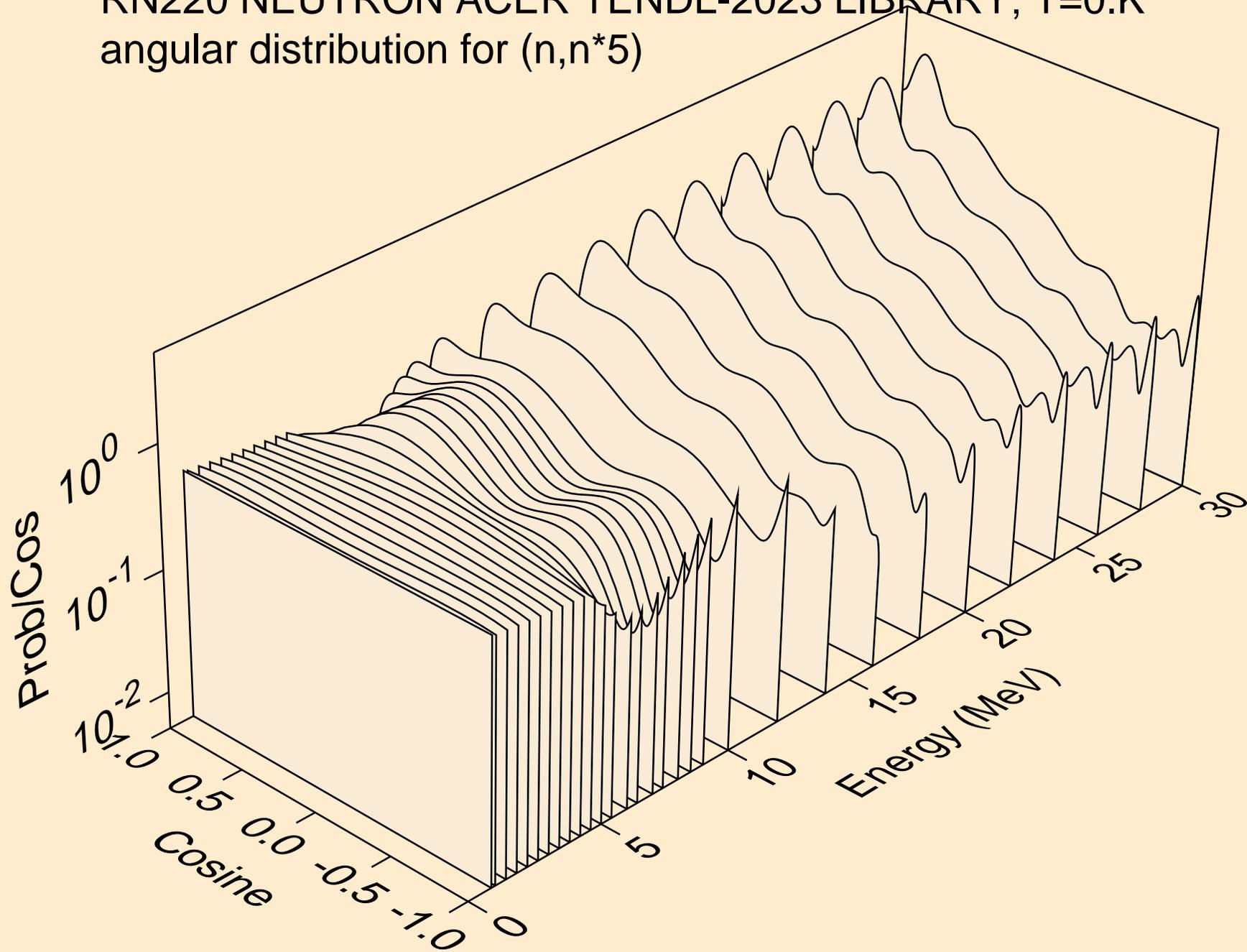
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angular distribution for (n,n\*3)



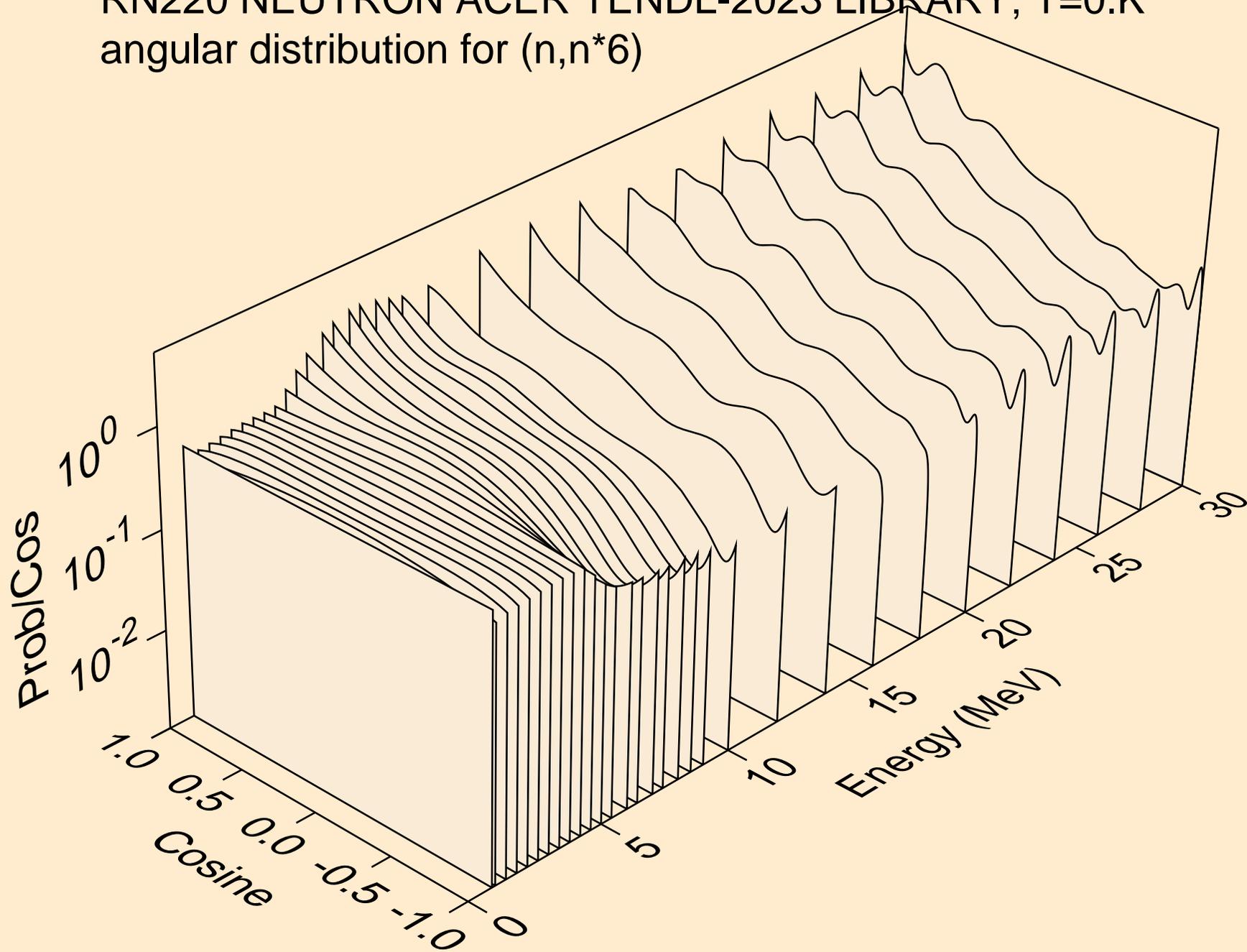
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angular distribution for (n,n\*4)



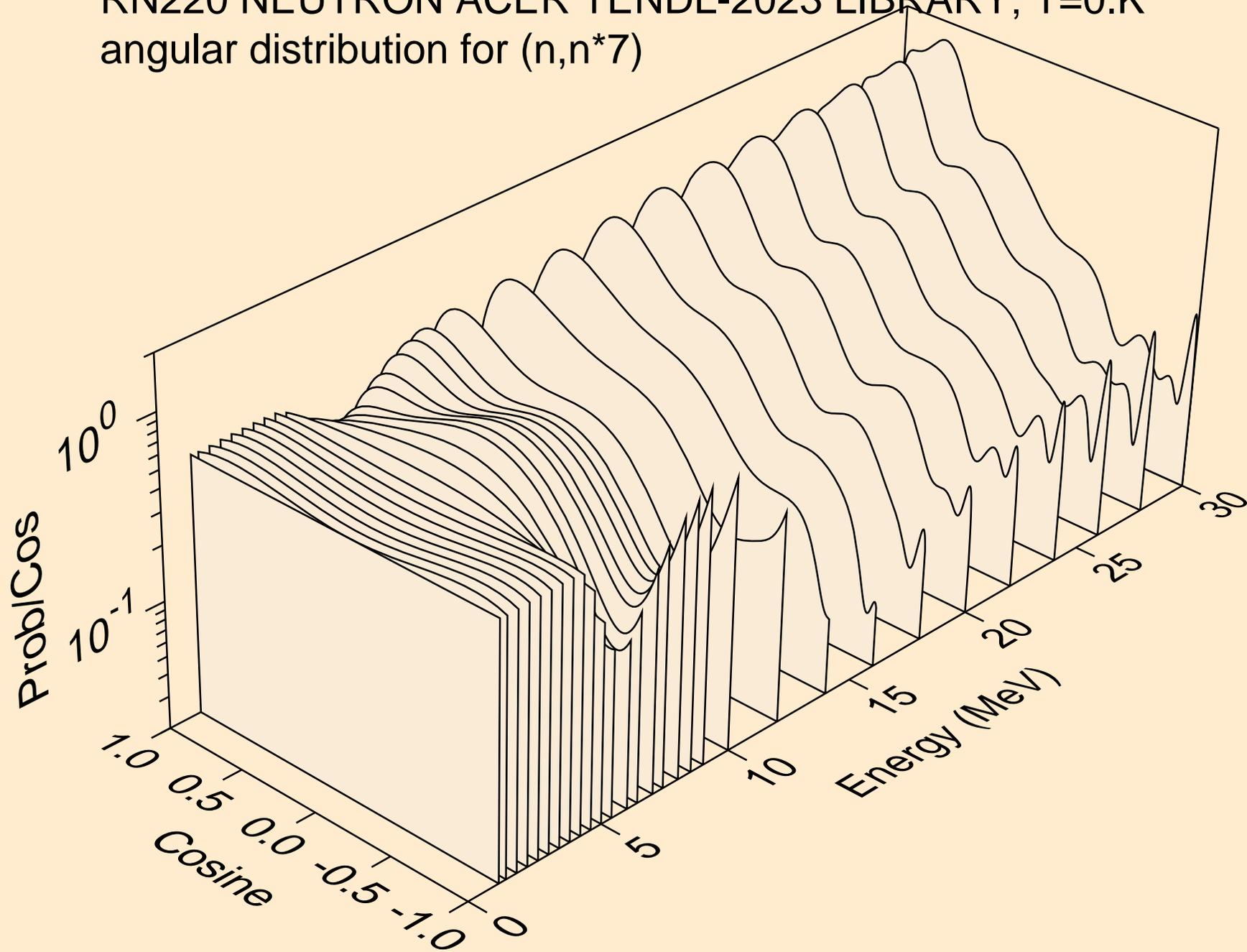
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angular distribution for (n,n\*5)



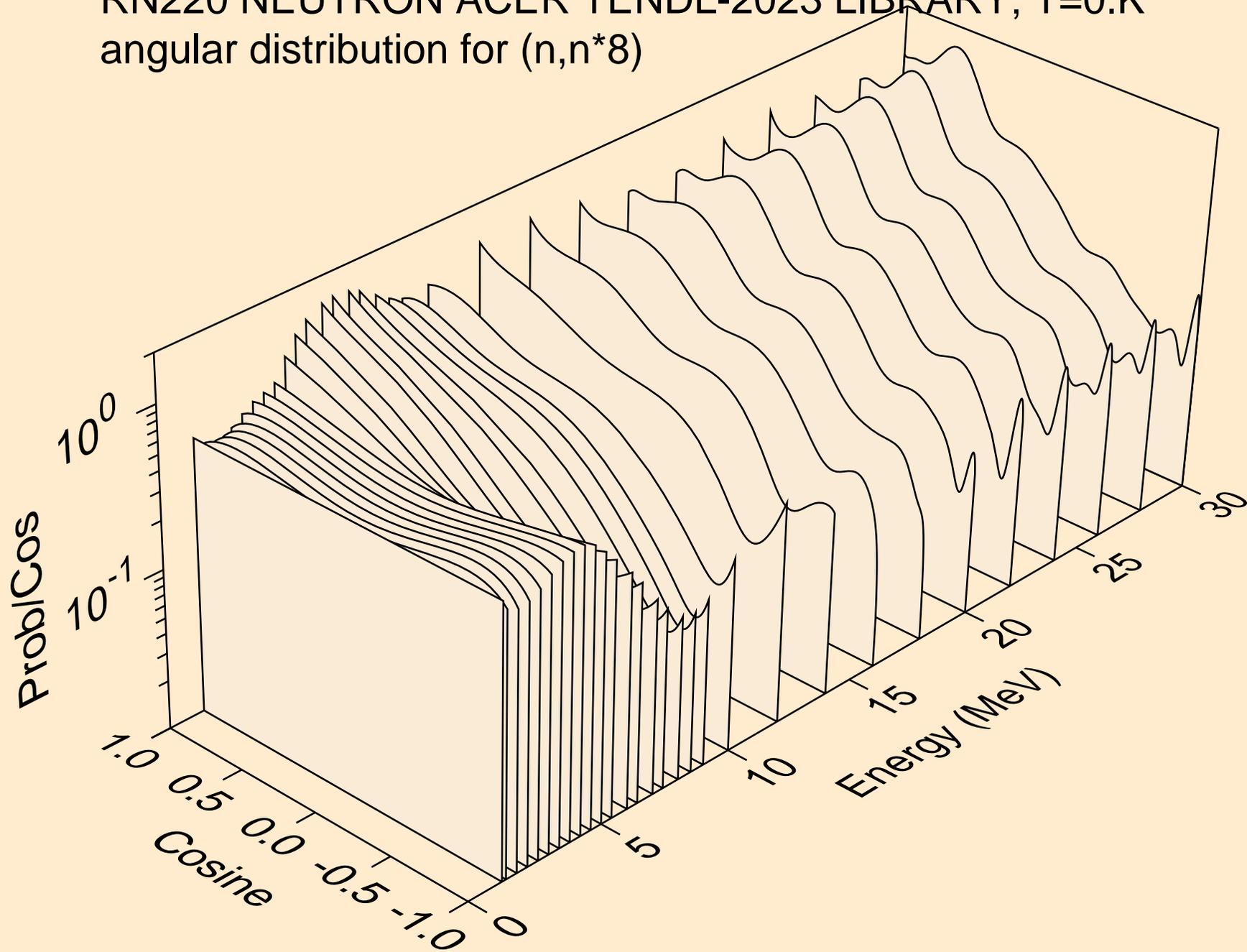
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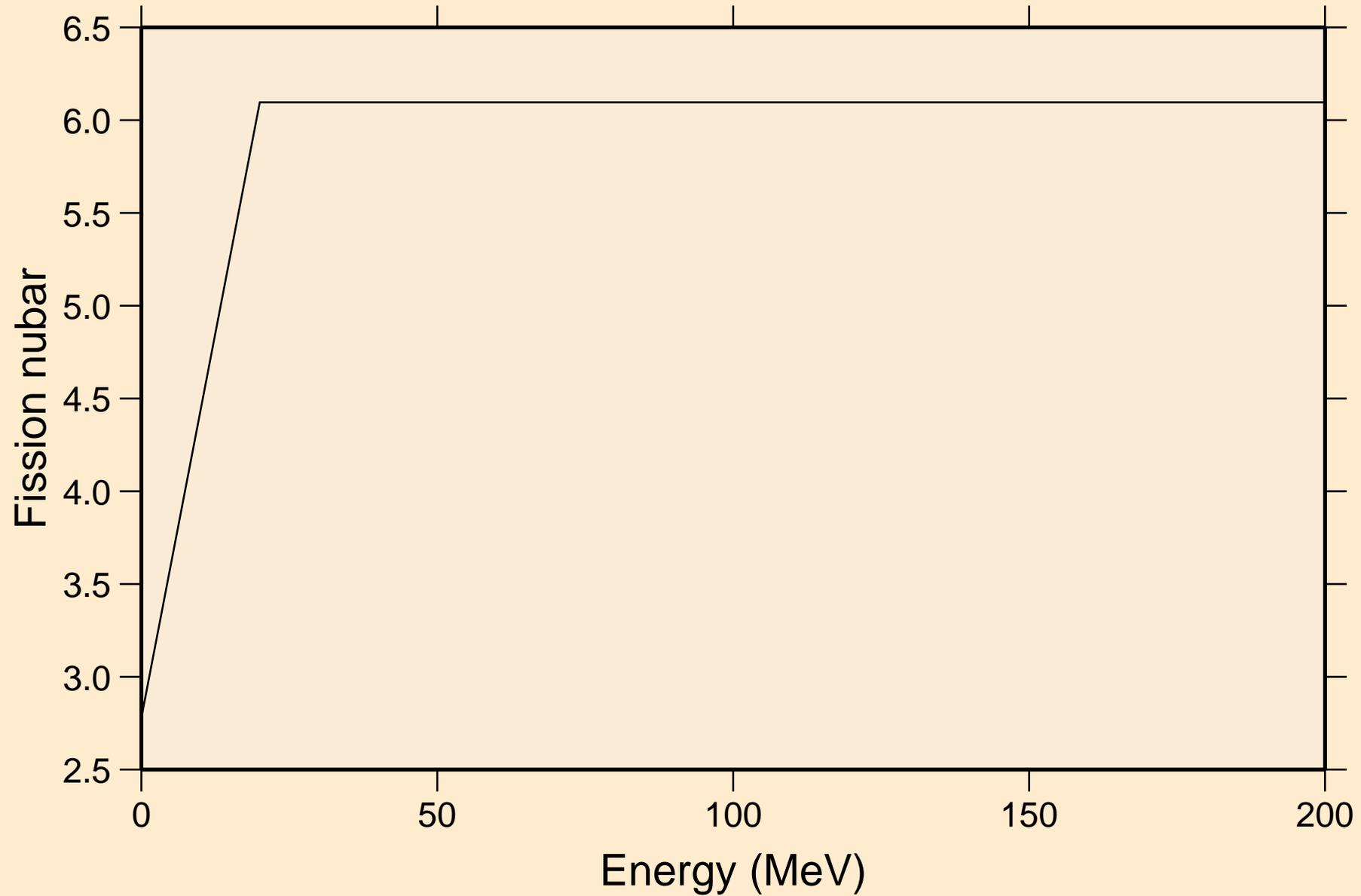
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angular distribution for (n,n\*7)



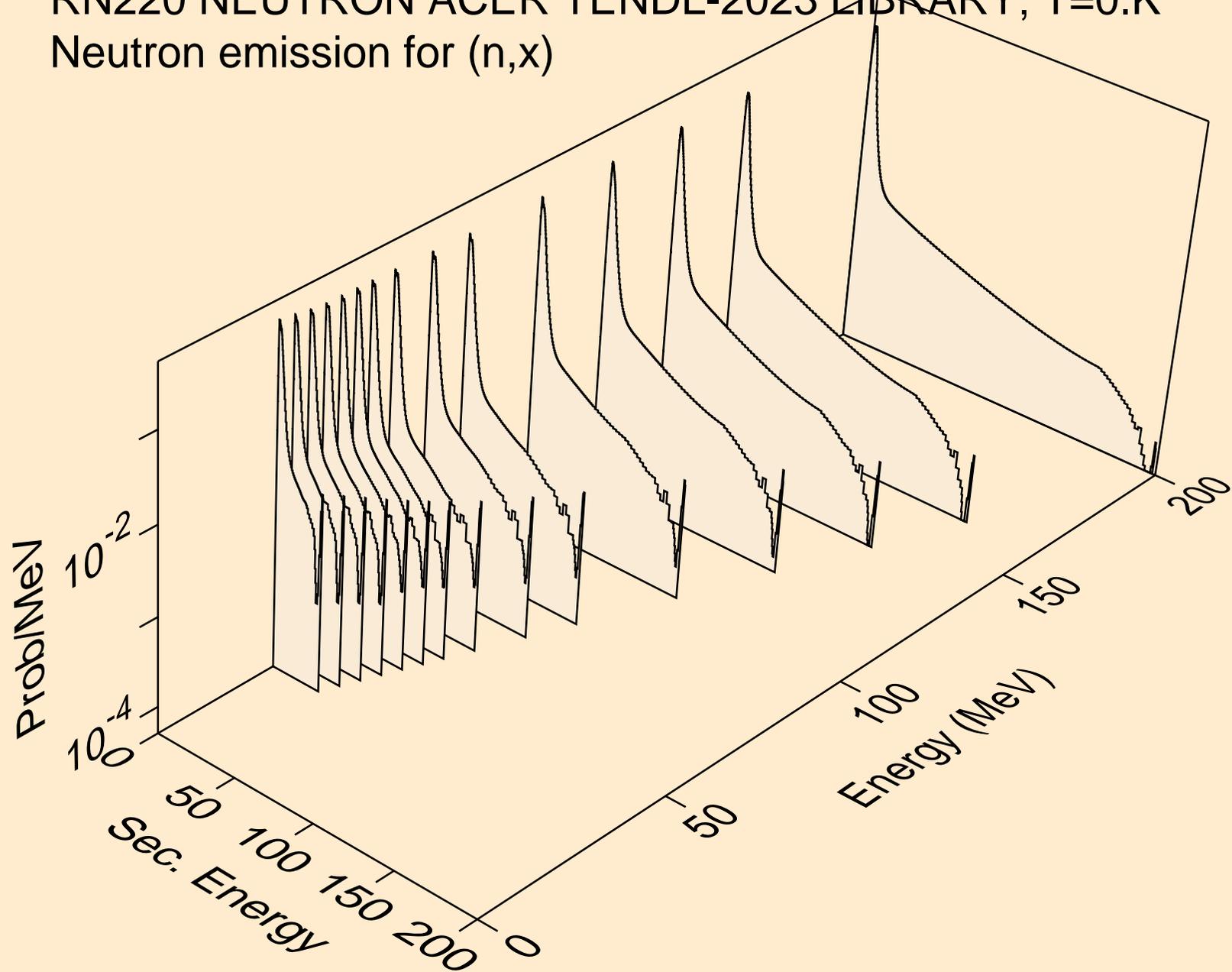
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angular distribution for (n,n\*8)



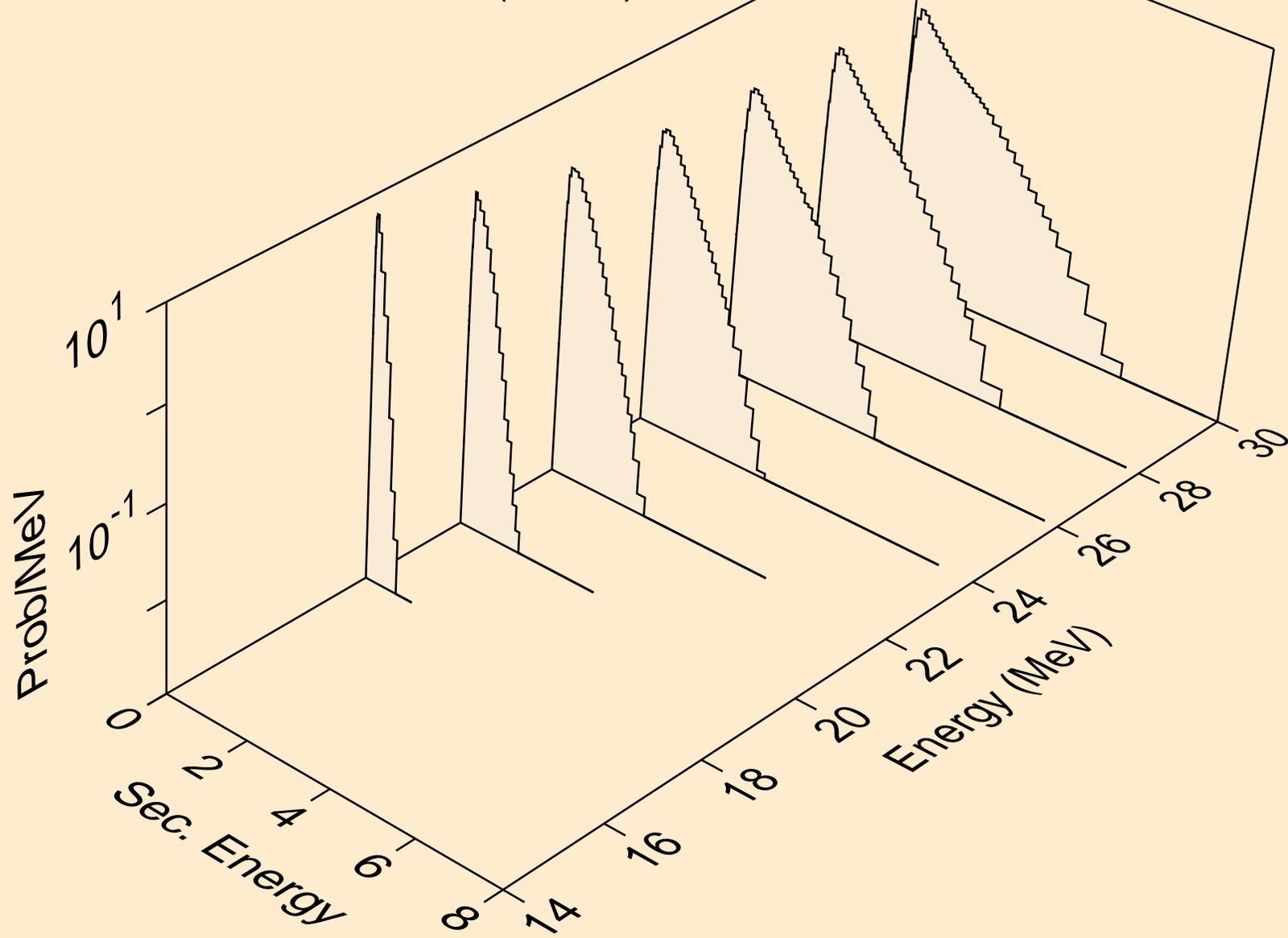
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Total fission nubar



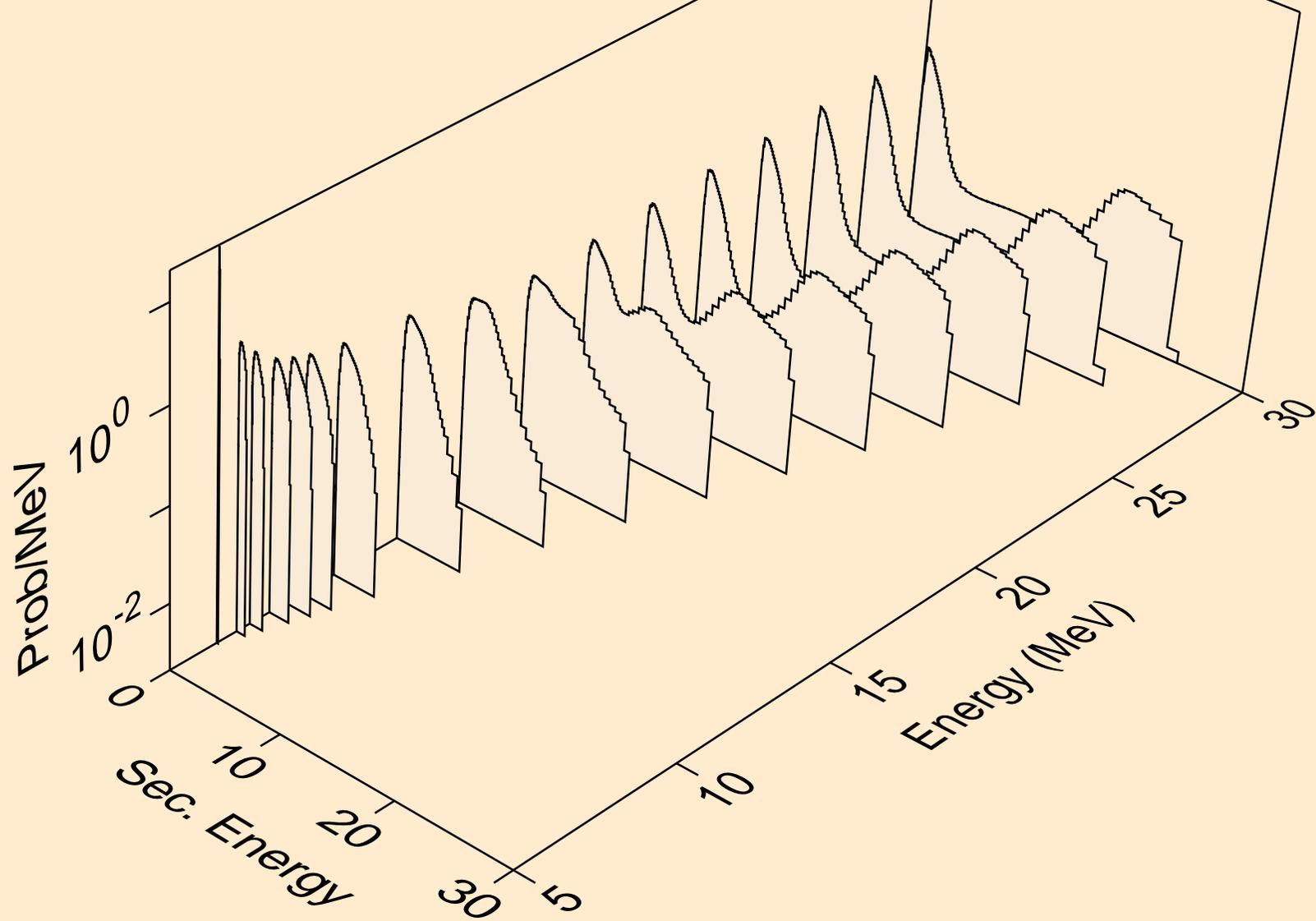
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Neutron emission for (n,x)



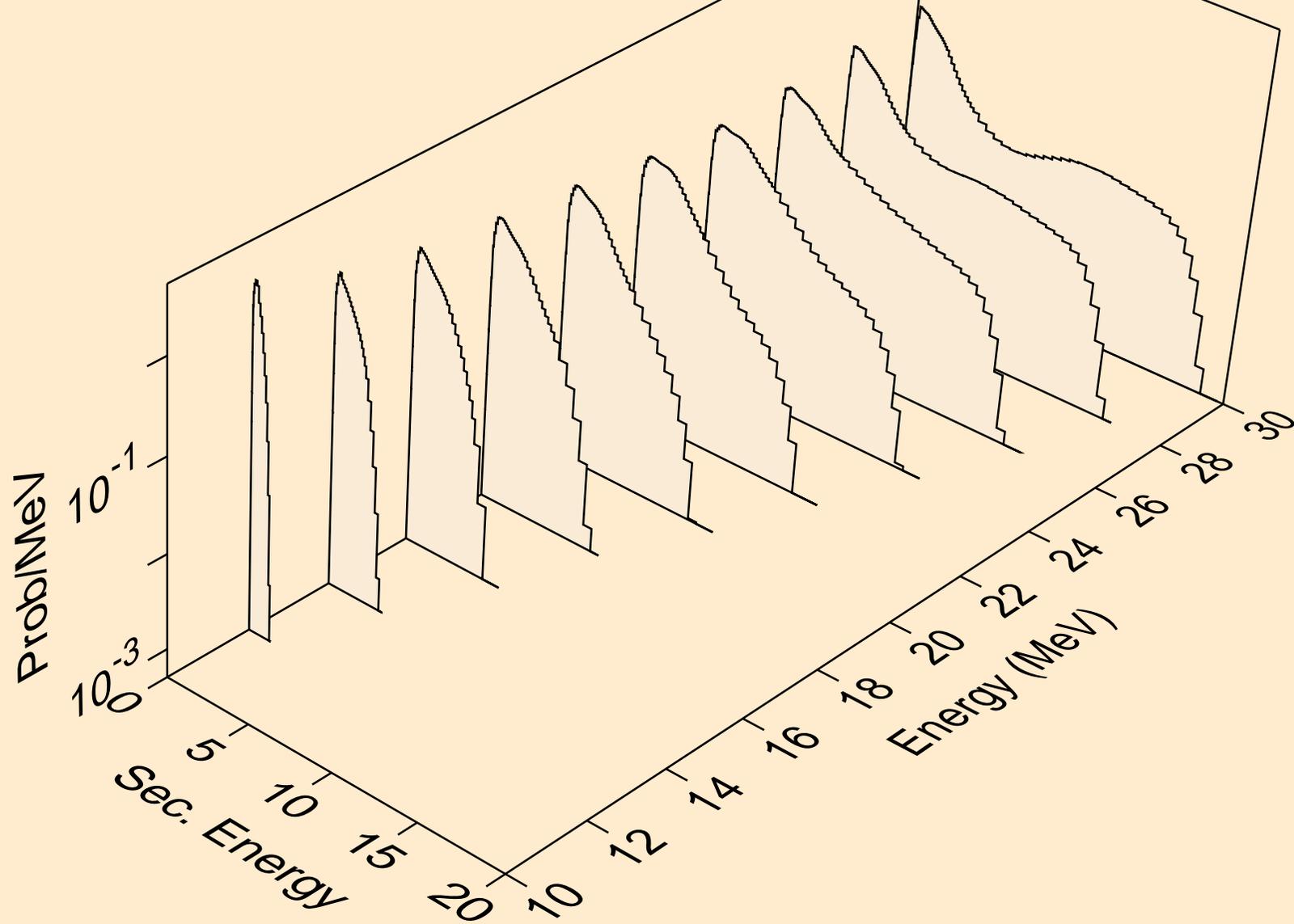
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Neutron emission for (n,2nd)



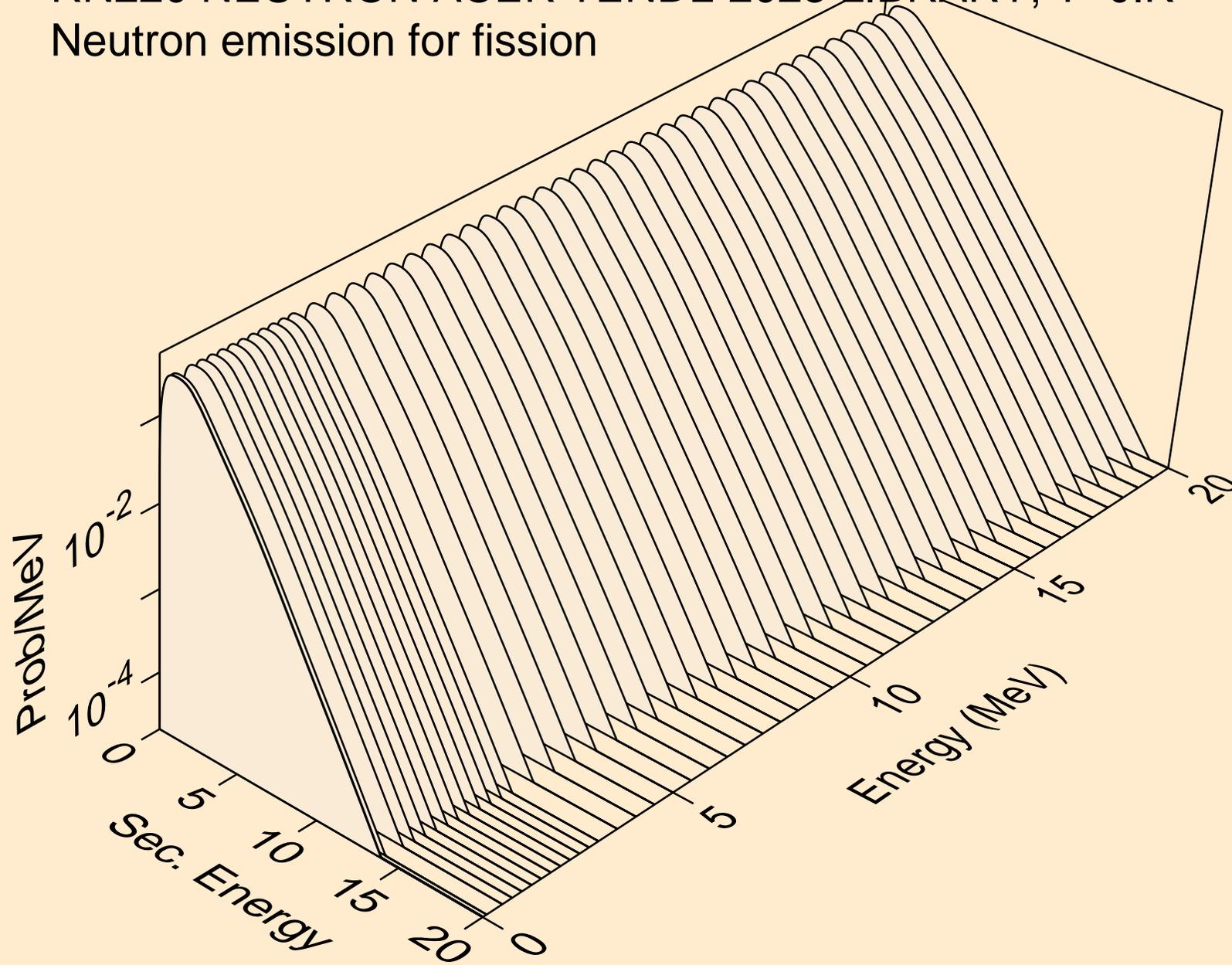
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Neutron emission for (n,2n)



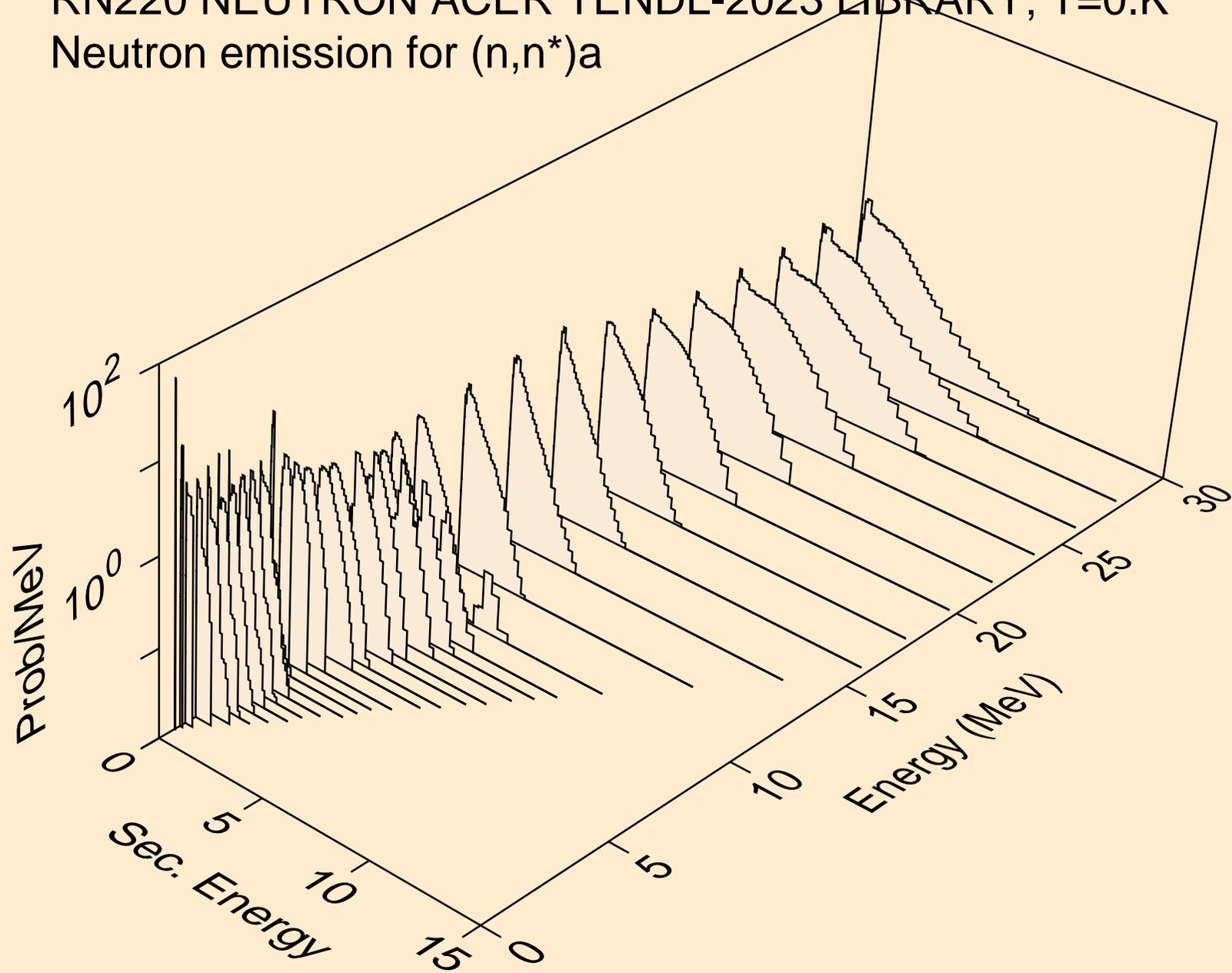
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Neutron emission for (n,3n)



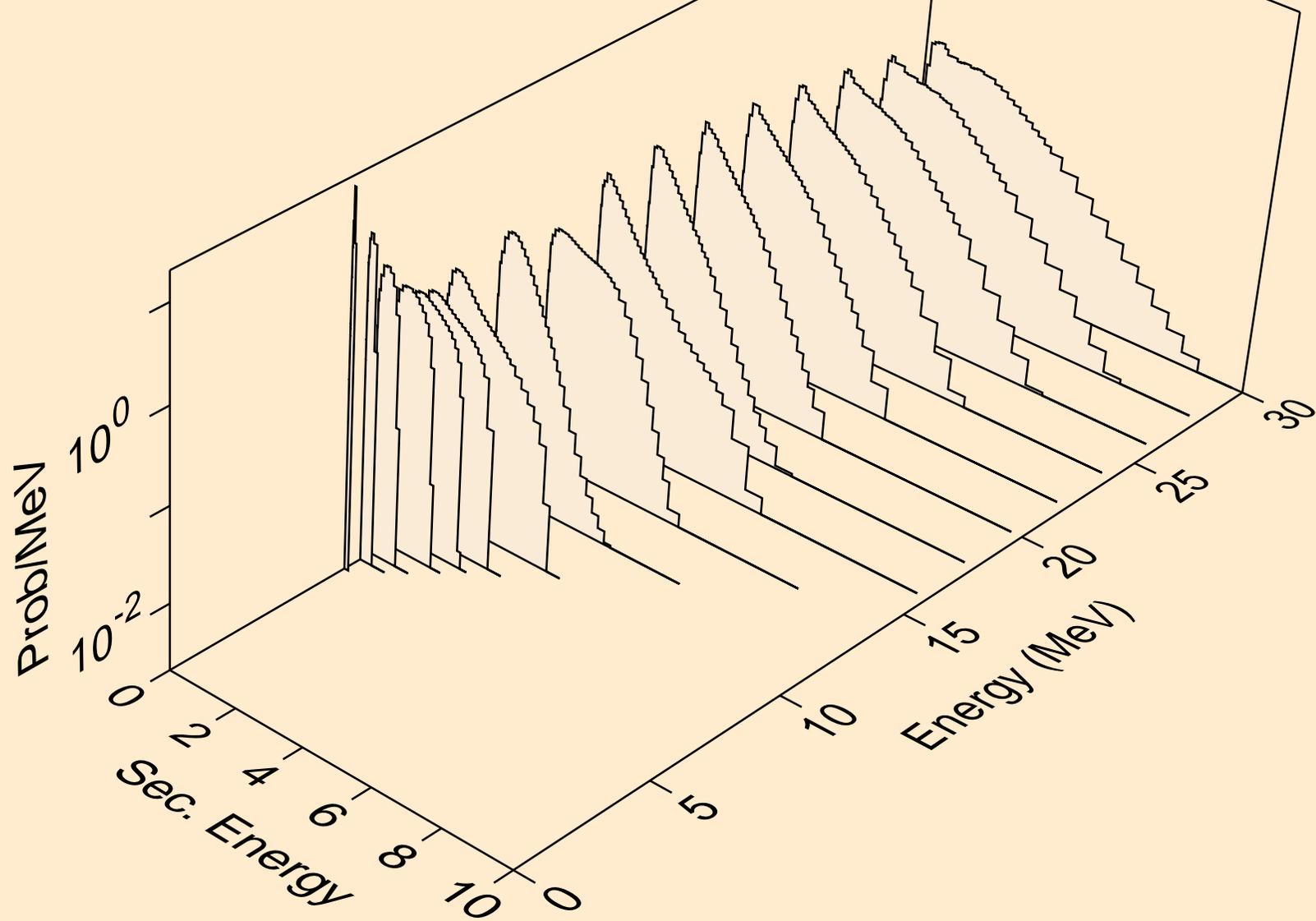
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Neutron emission for fission



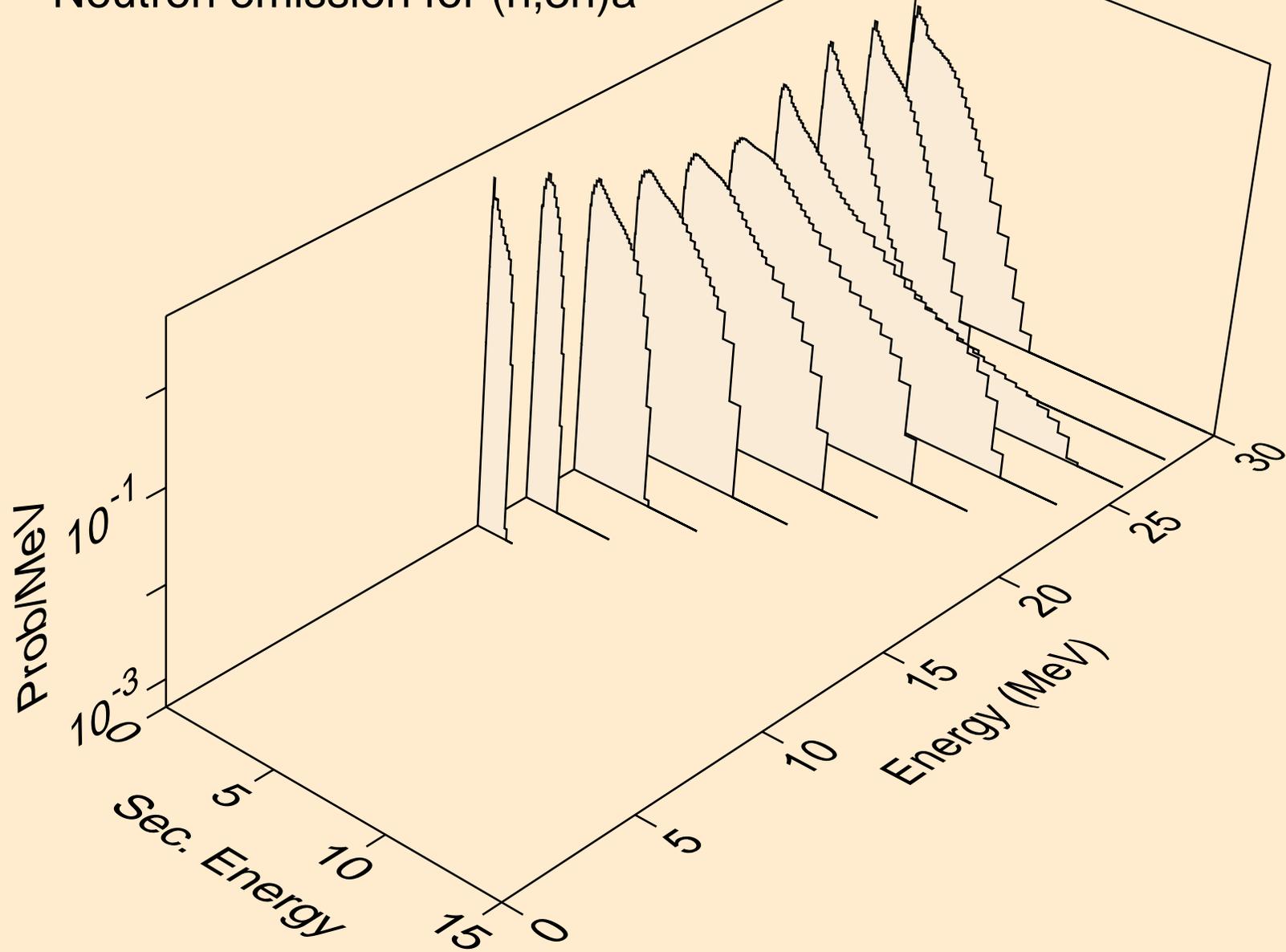
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Neutron emission for (n,n\*)a



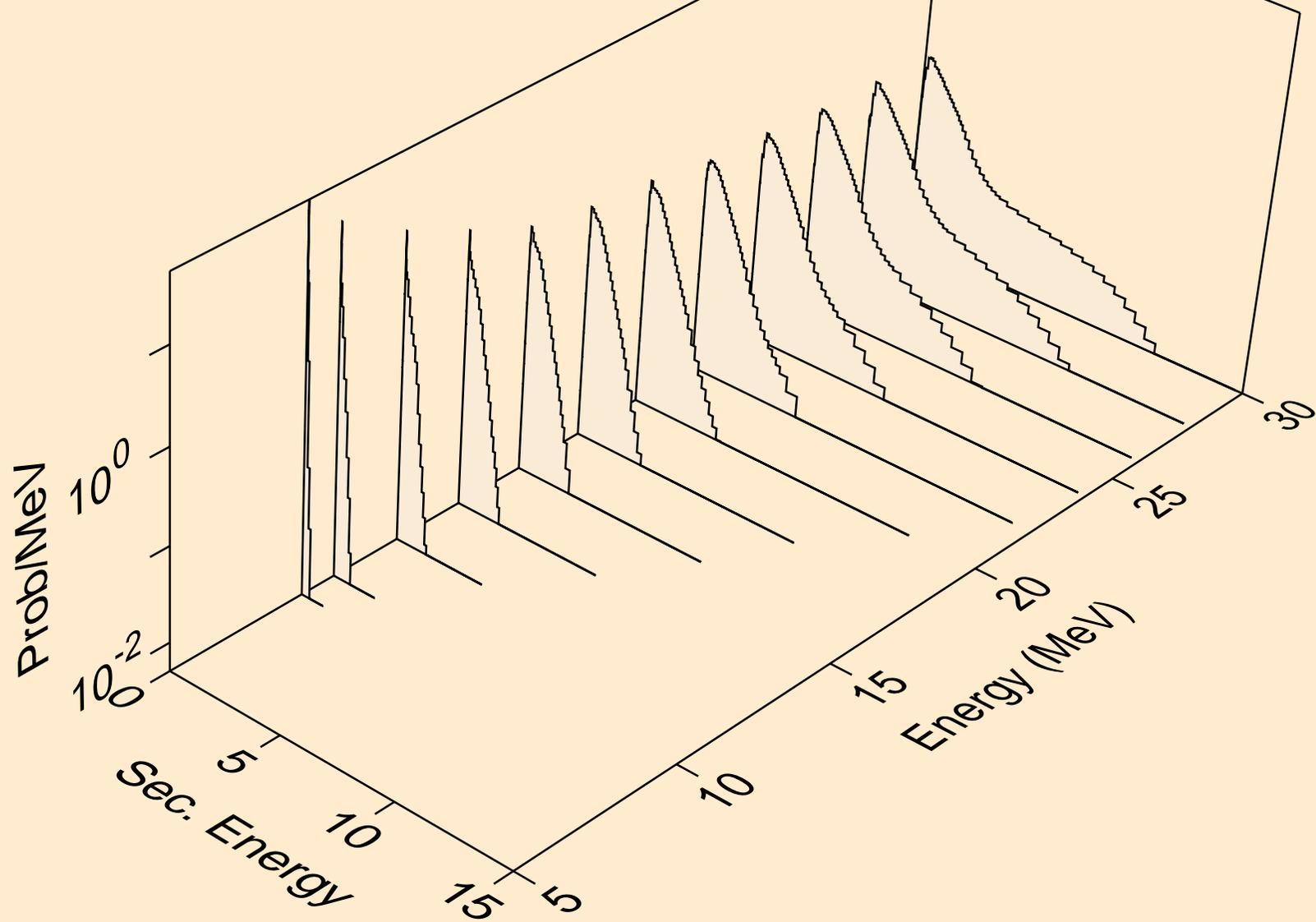
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Neutron emission for (n,2n)a



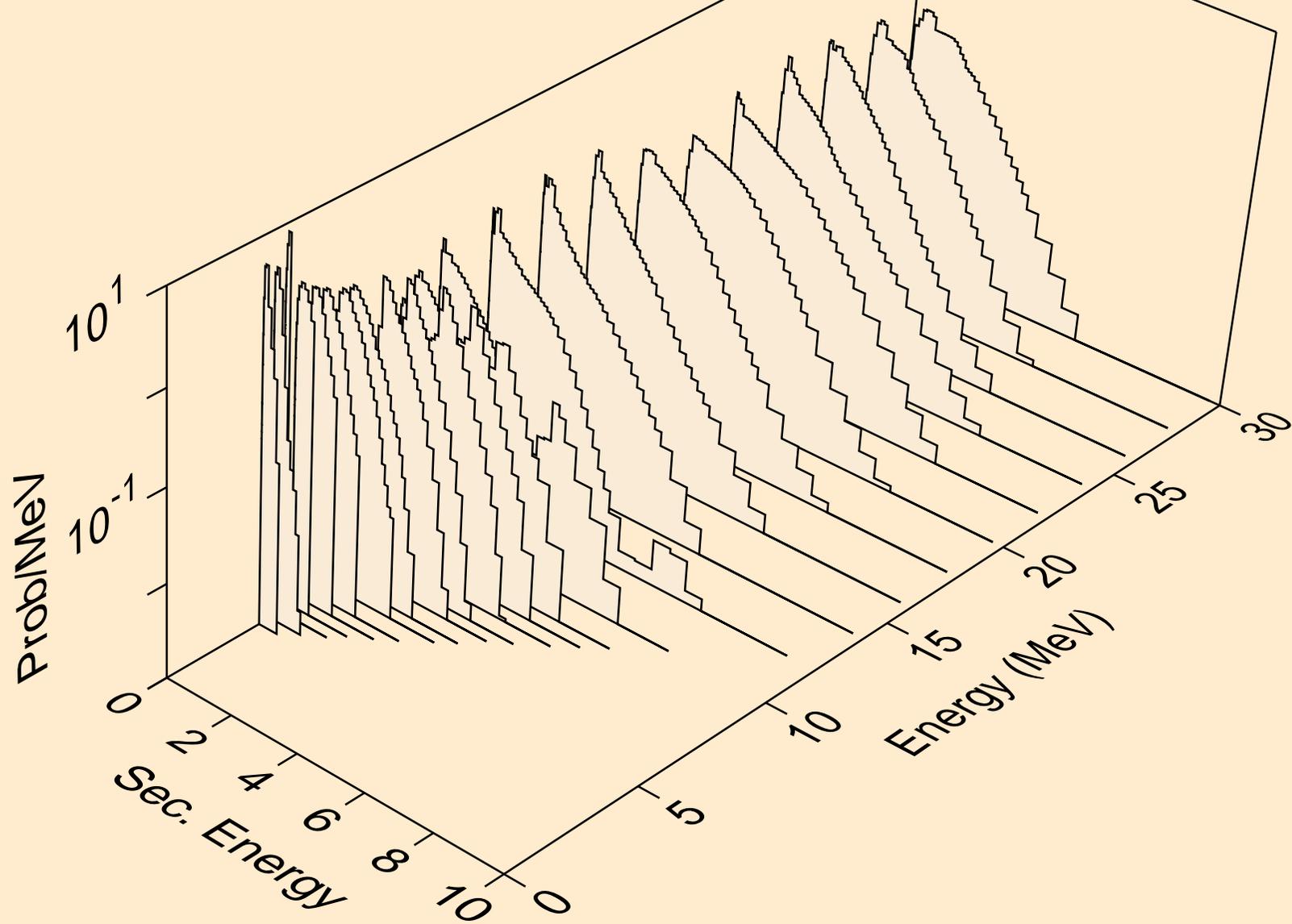
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Neutron emission for (n,3n)a



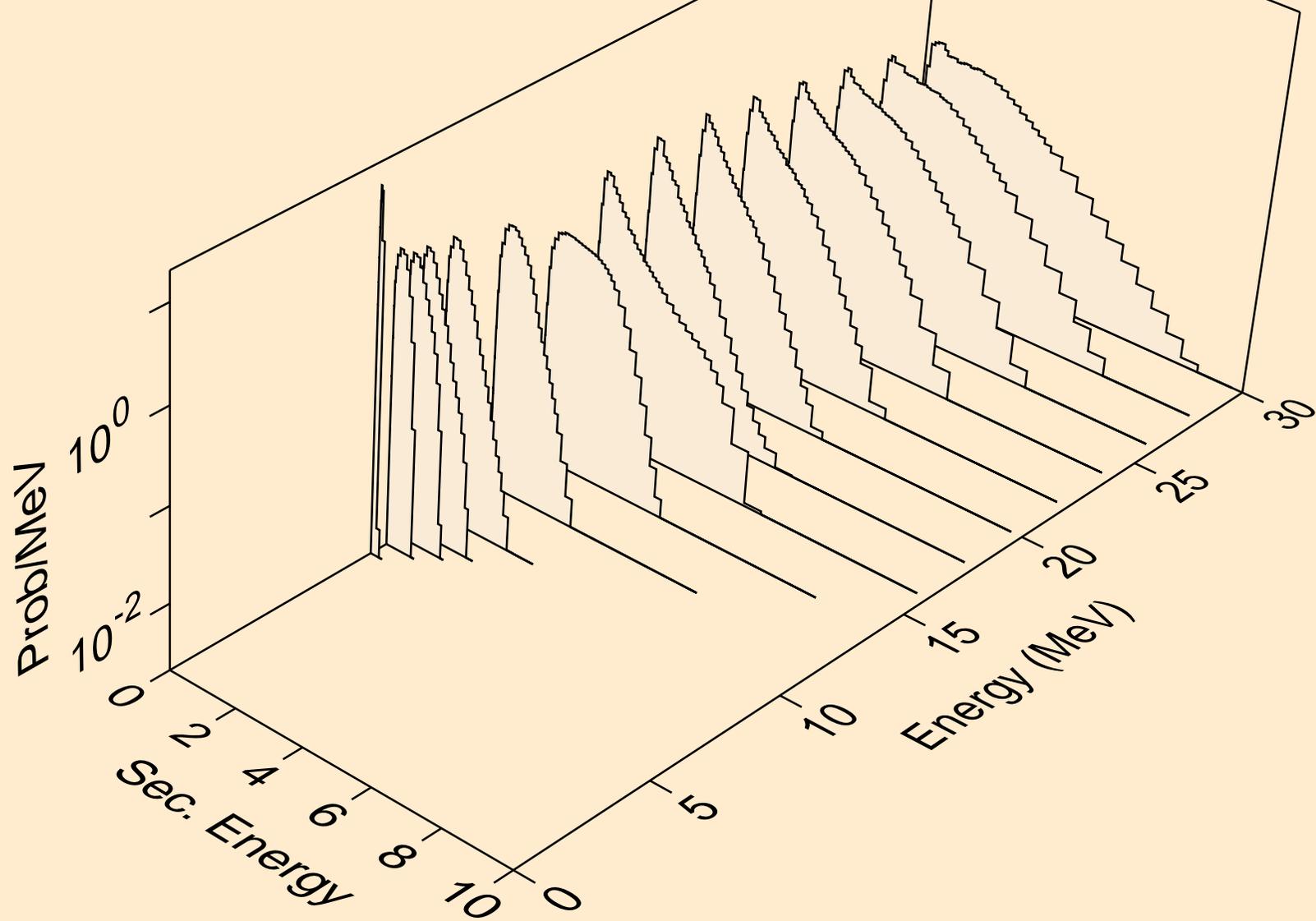
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Neutron emission for (n,n\*)p



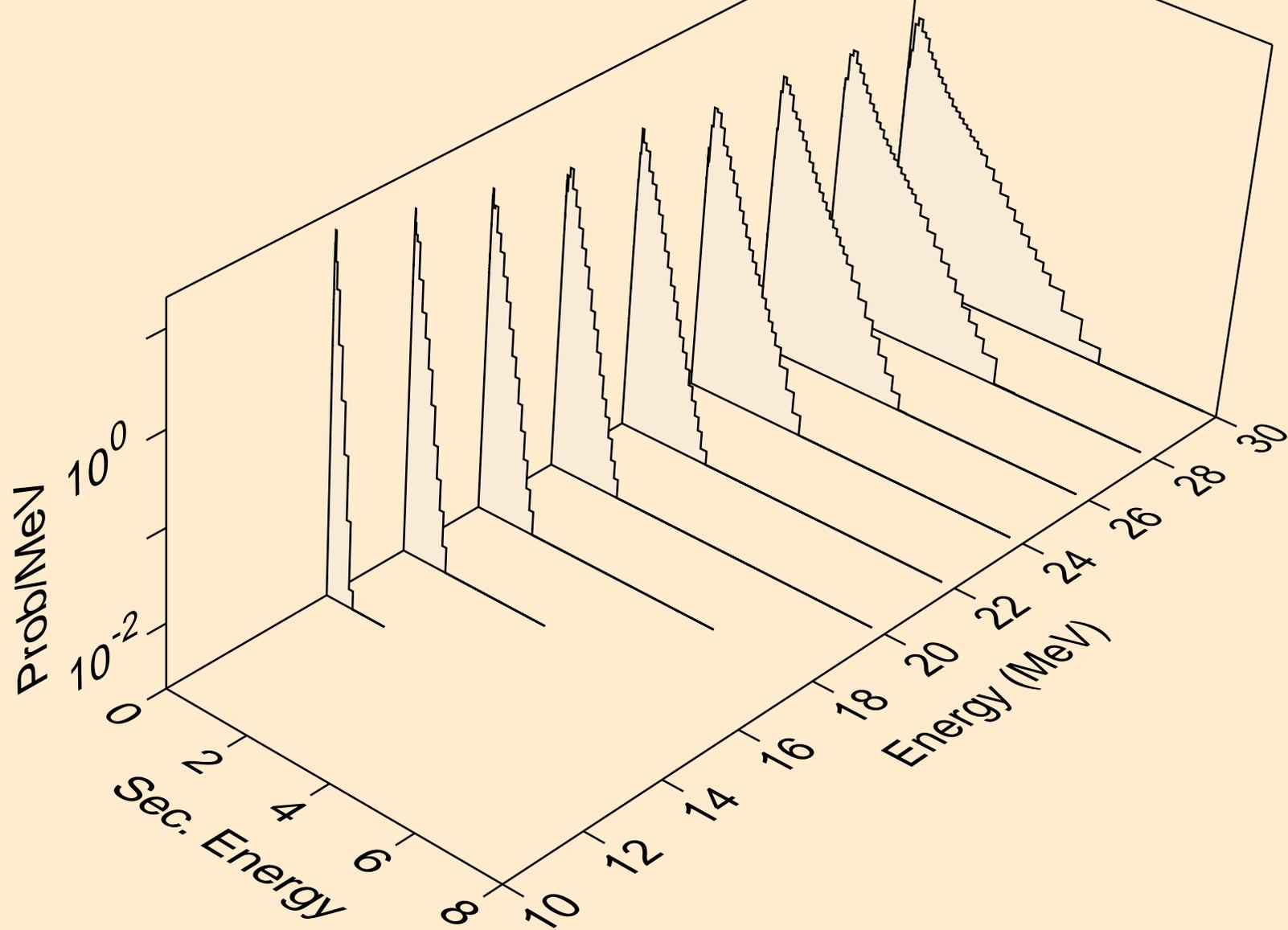
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Neutron emission for (n,n\*)2a



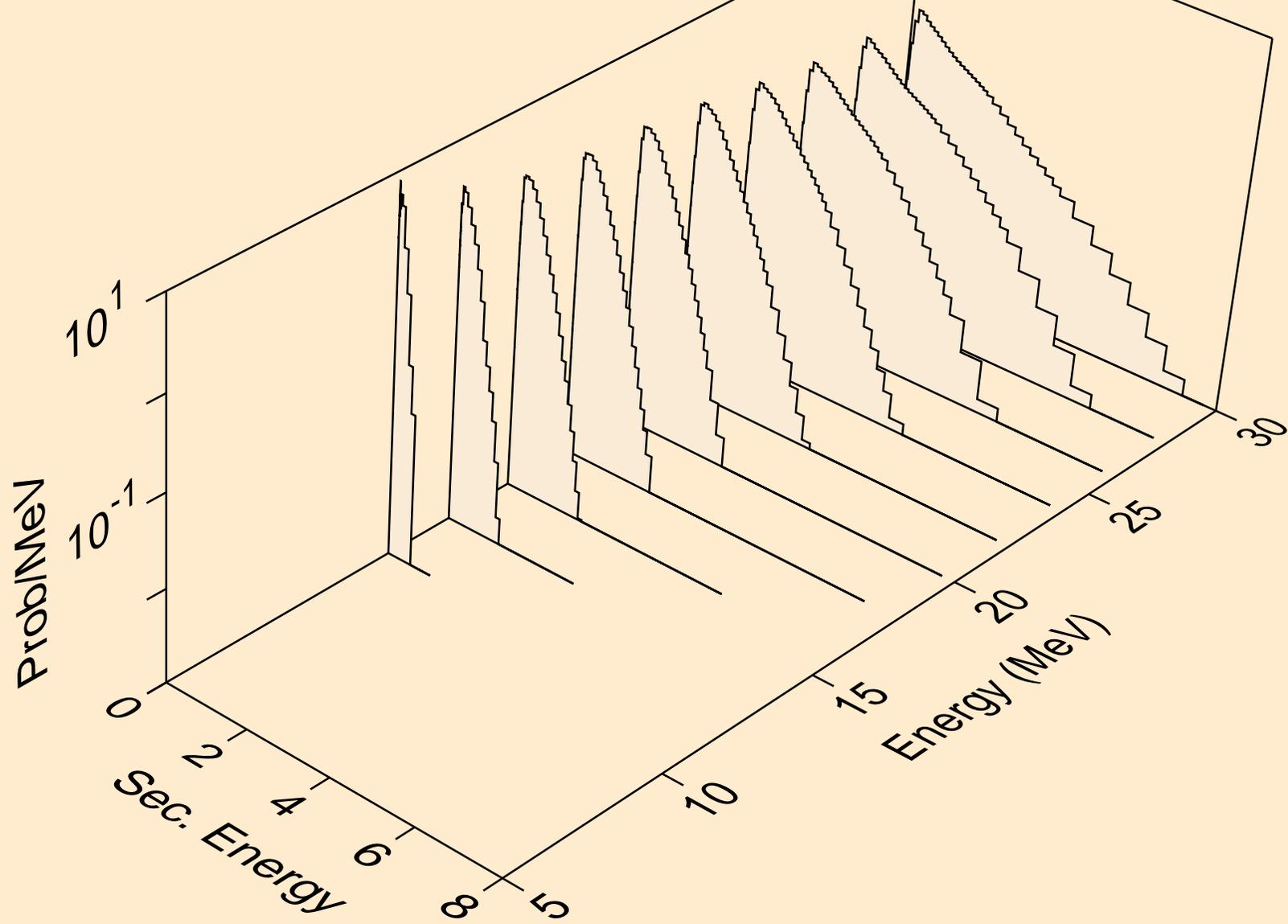
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Neutron emission for (n,2n)2a



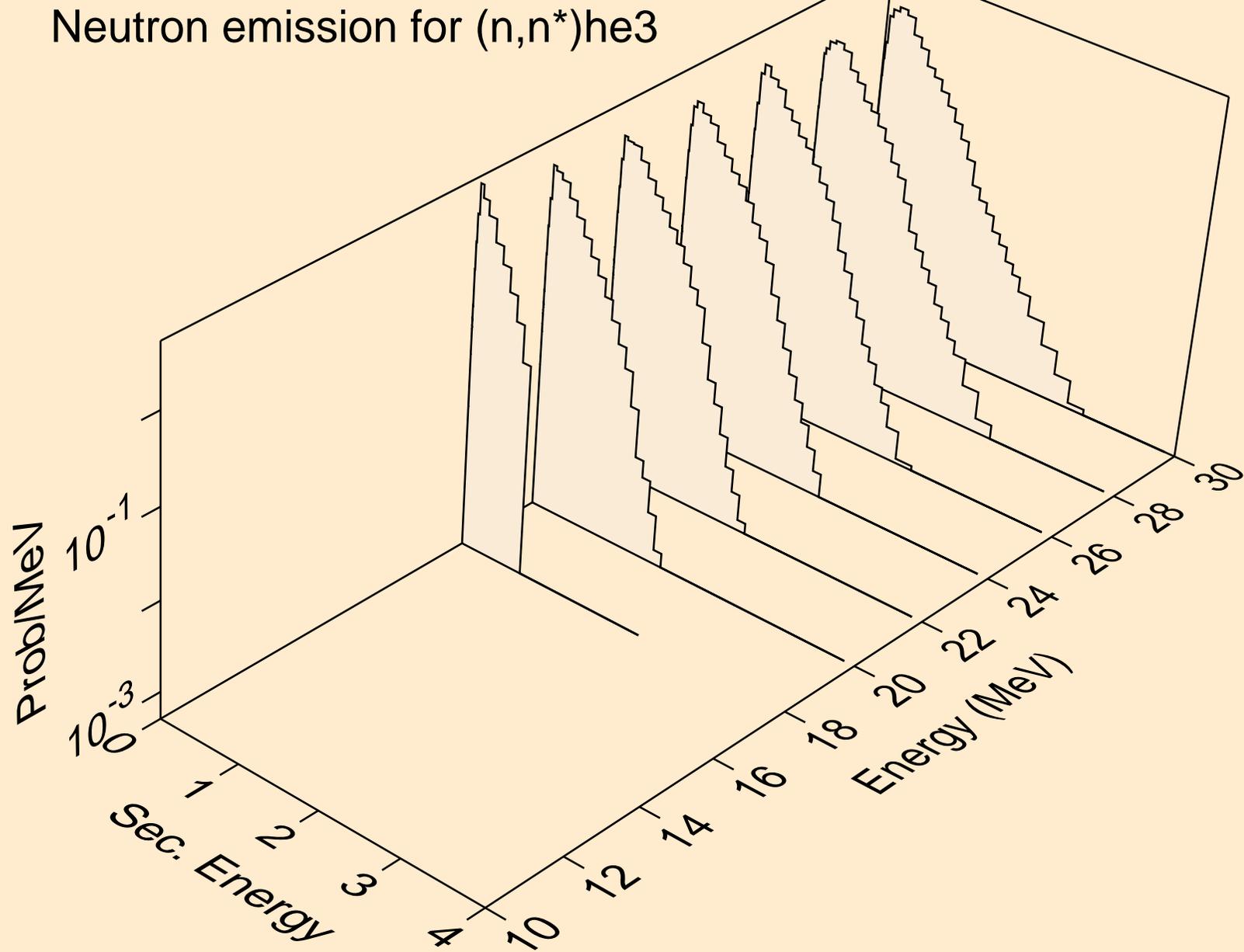
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Neutron emission for (n,n\*)d



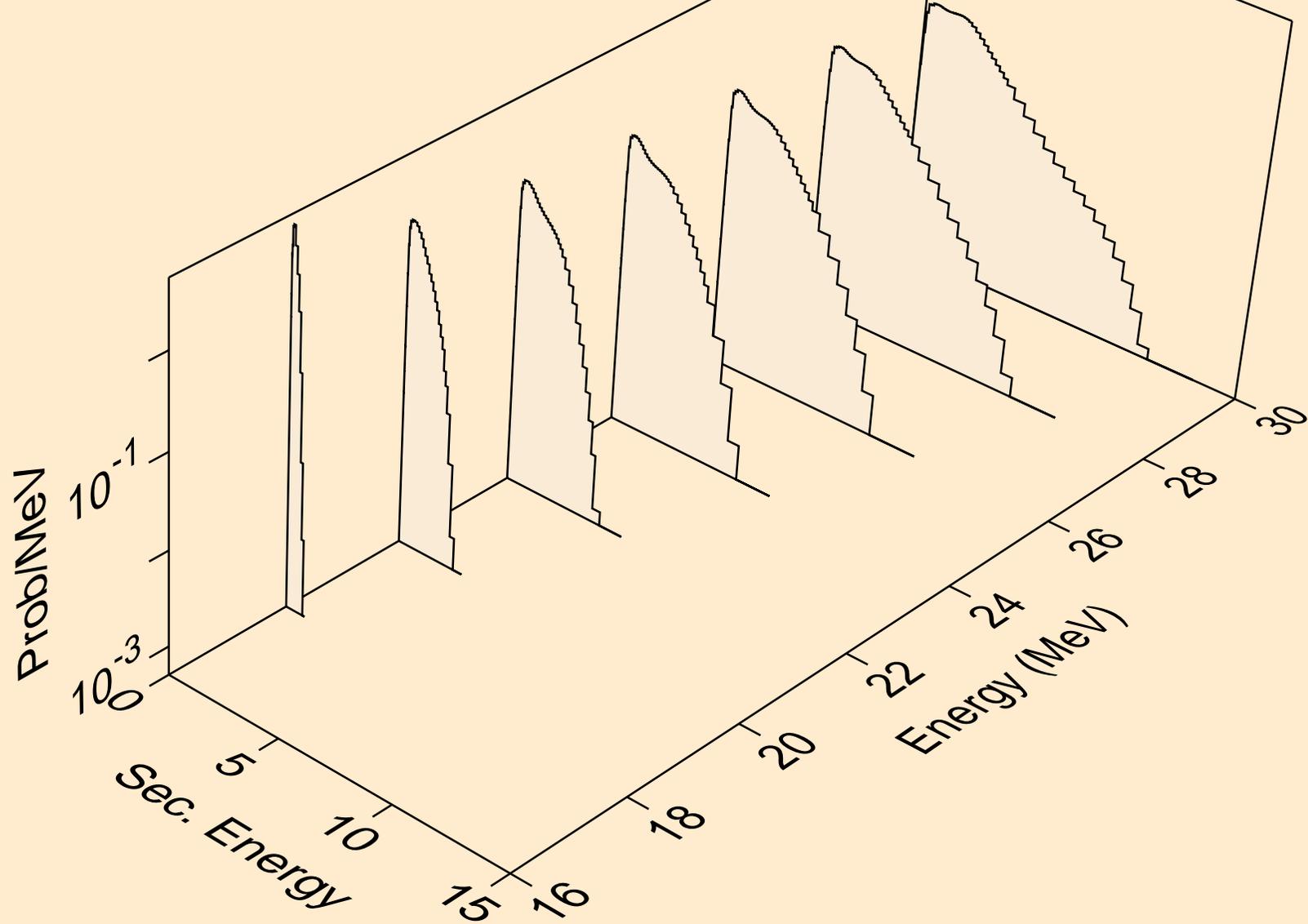
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Neutron emission for (n,n\*)t



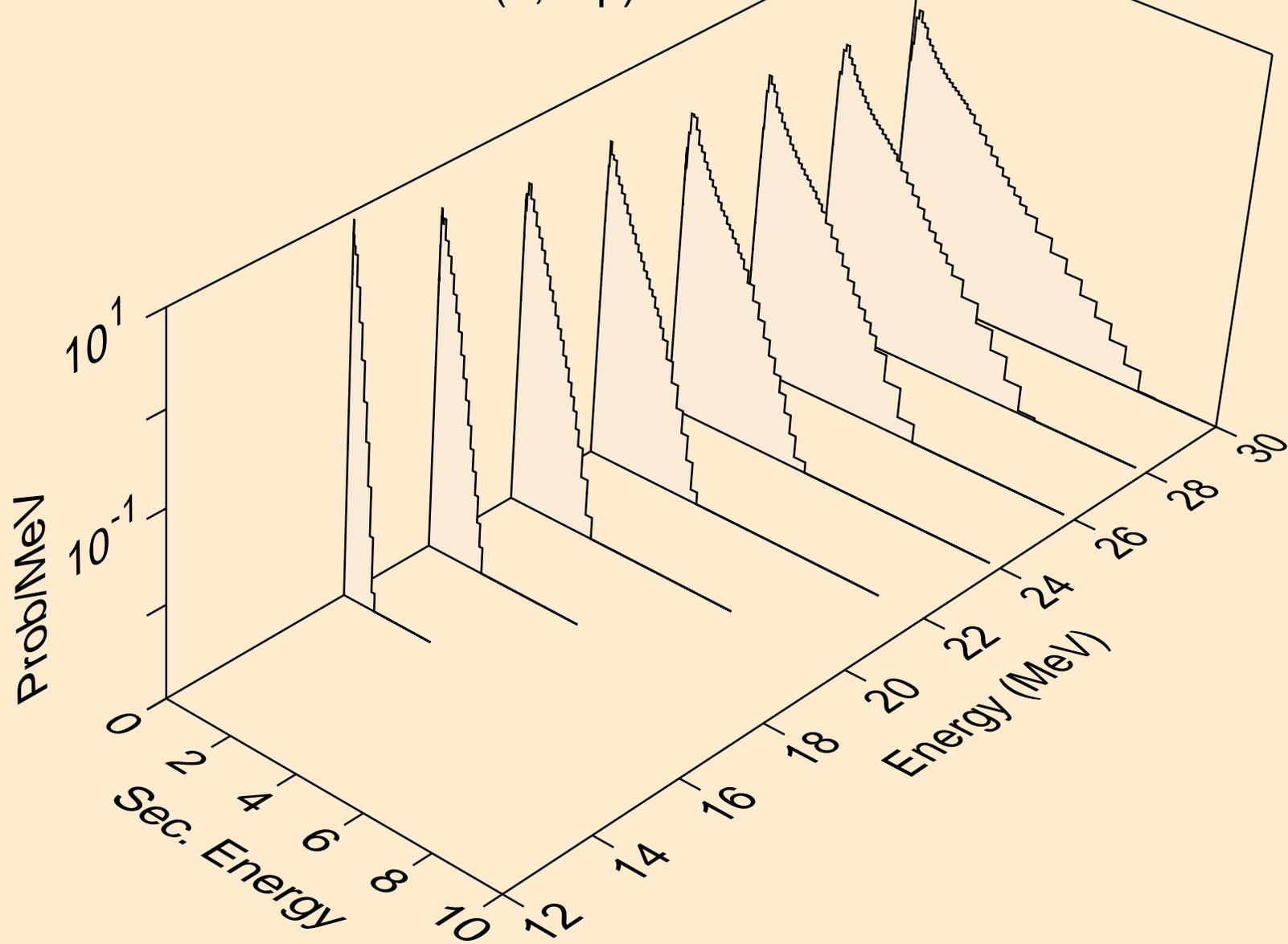
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Neutron emission for (n,n\*)he3



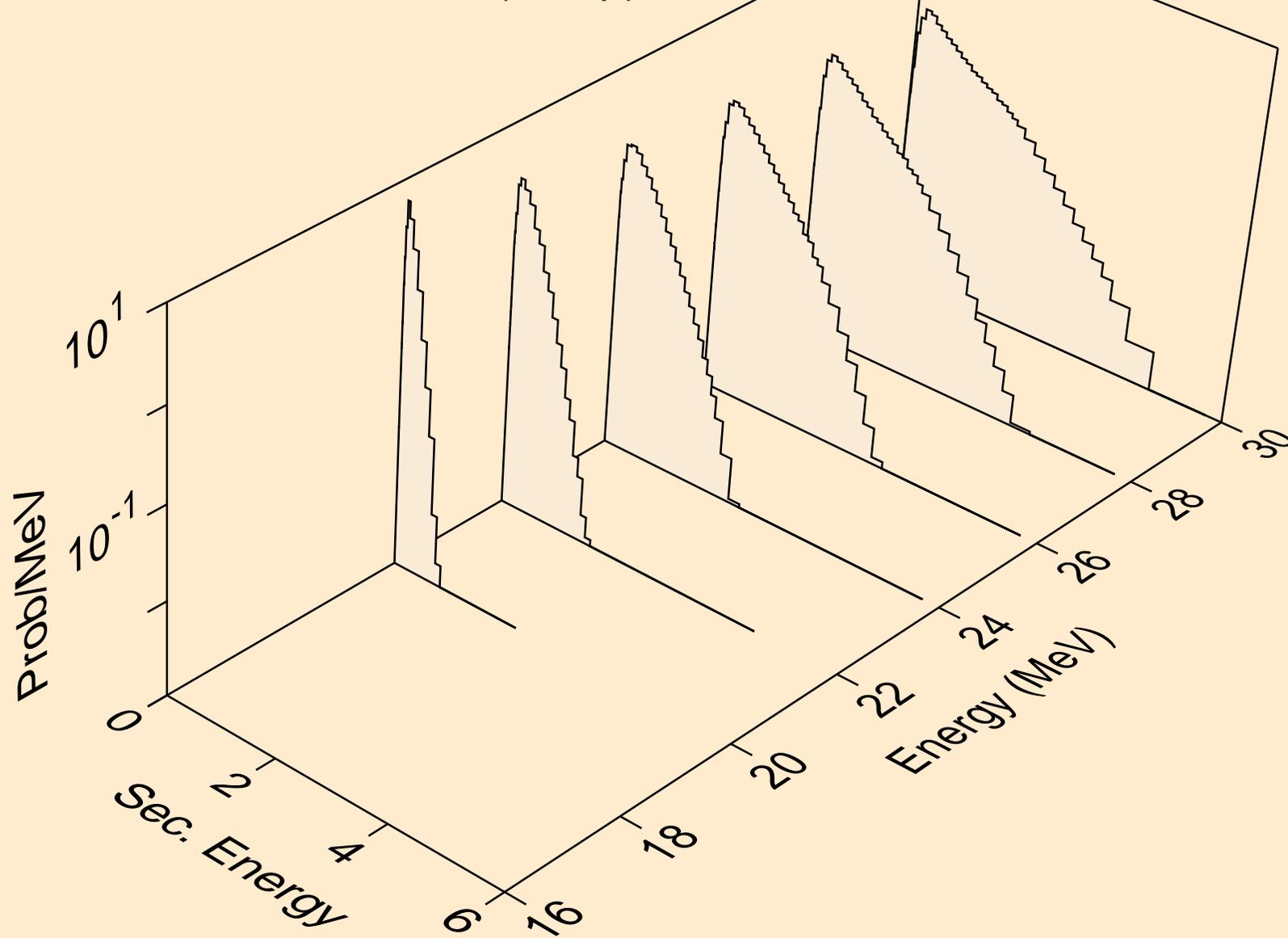
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Neutron emission for (n,4n)



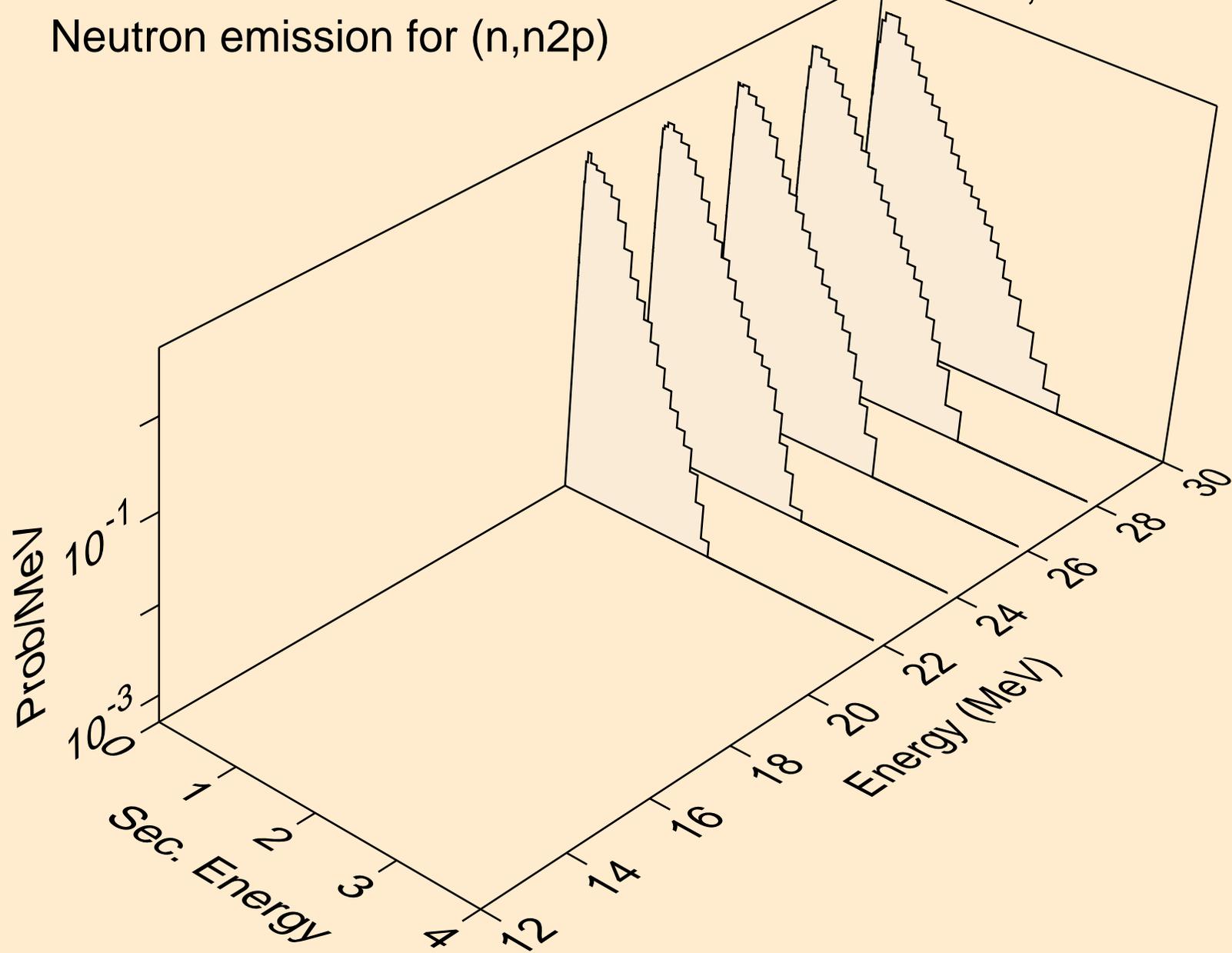
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Neutron emission for (n,2np)



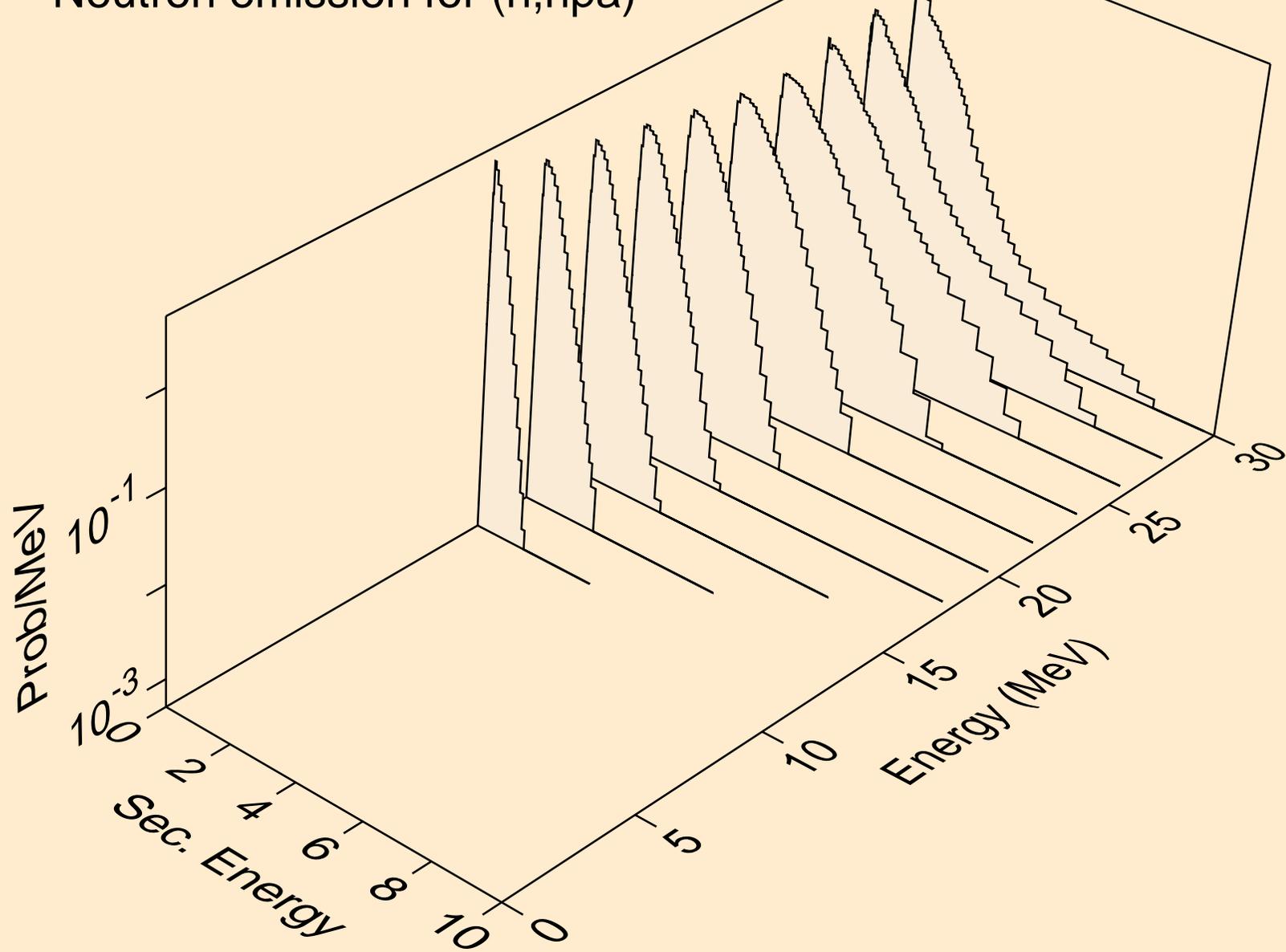
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Neutron emission for (n,3np)



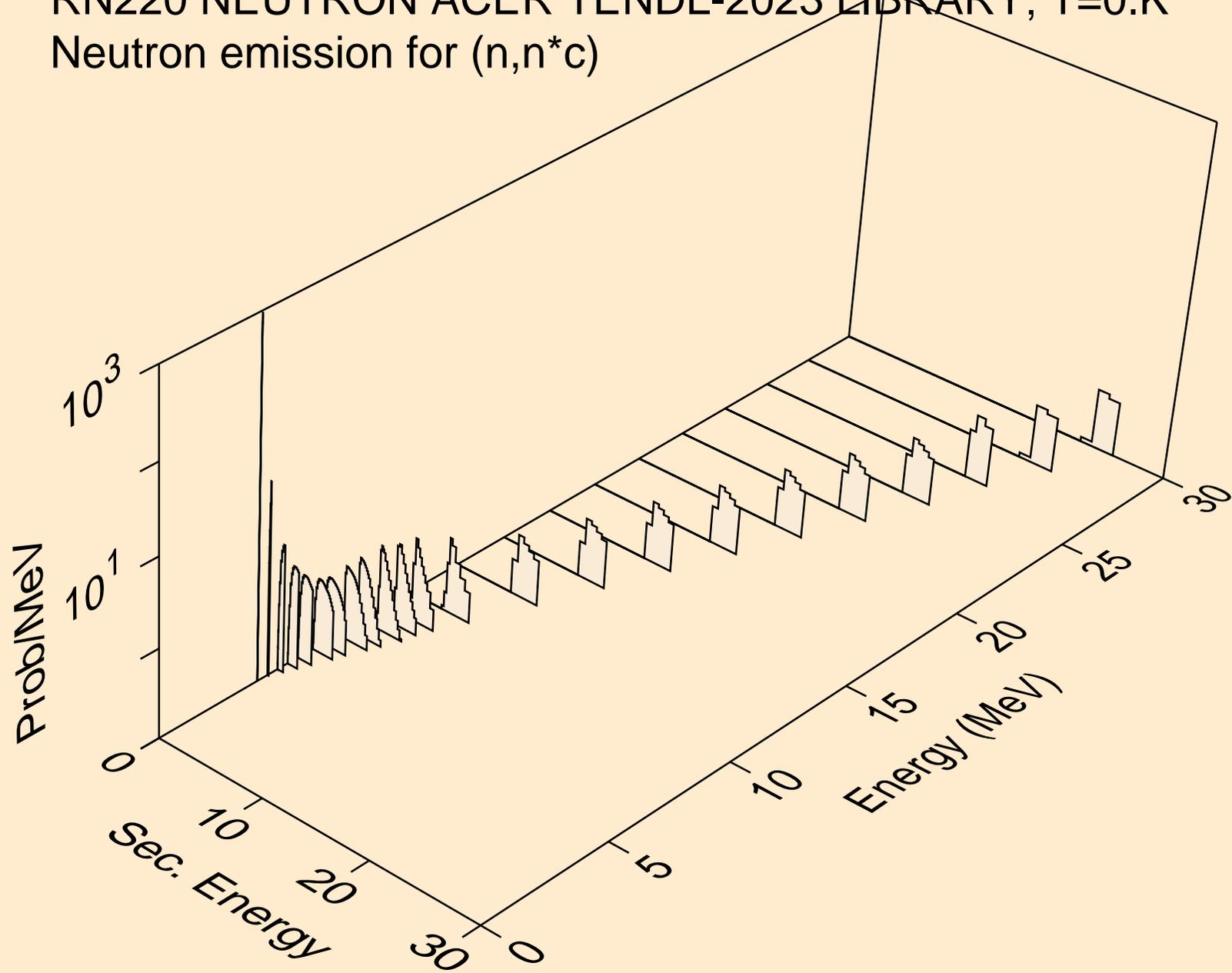
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Neutron emission for (n,n2p)



RN220 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,npa)

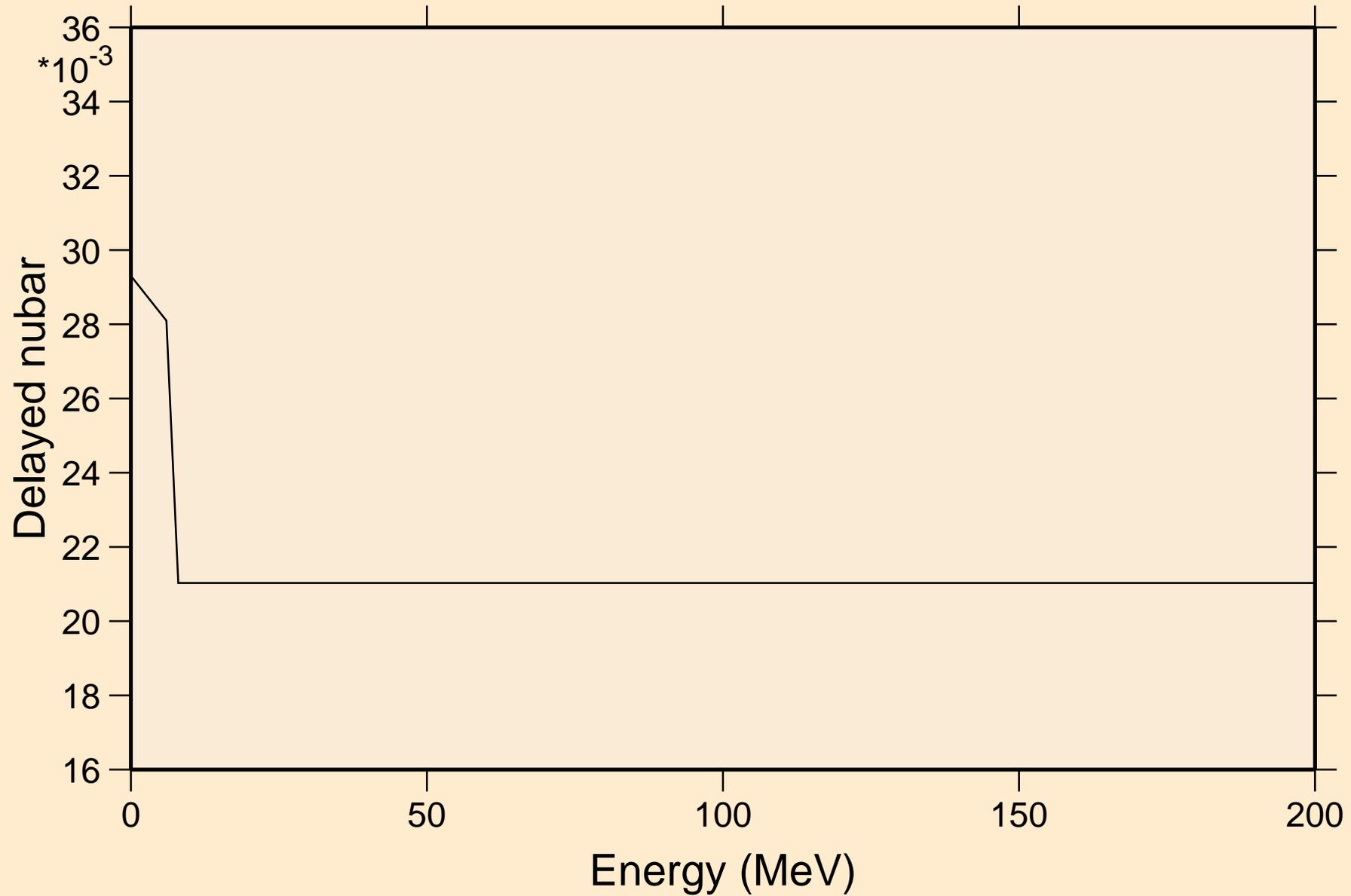


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Neutron emission for (n,n\*c)



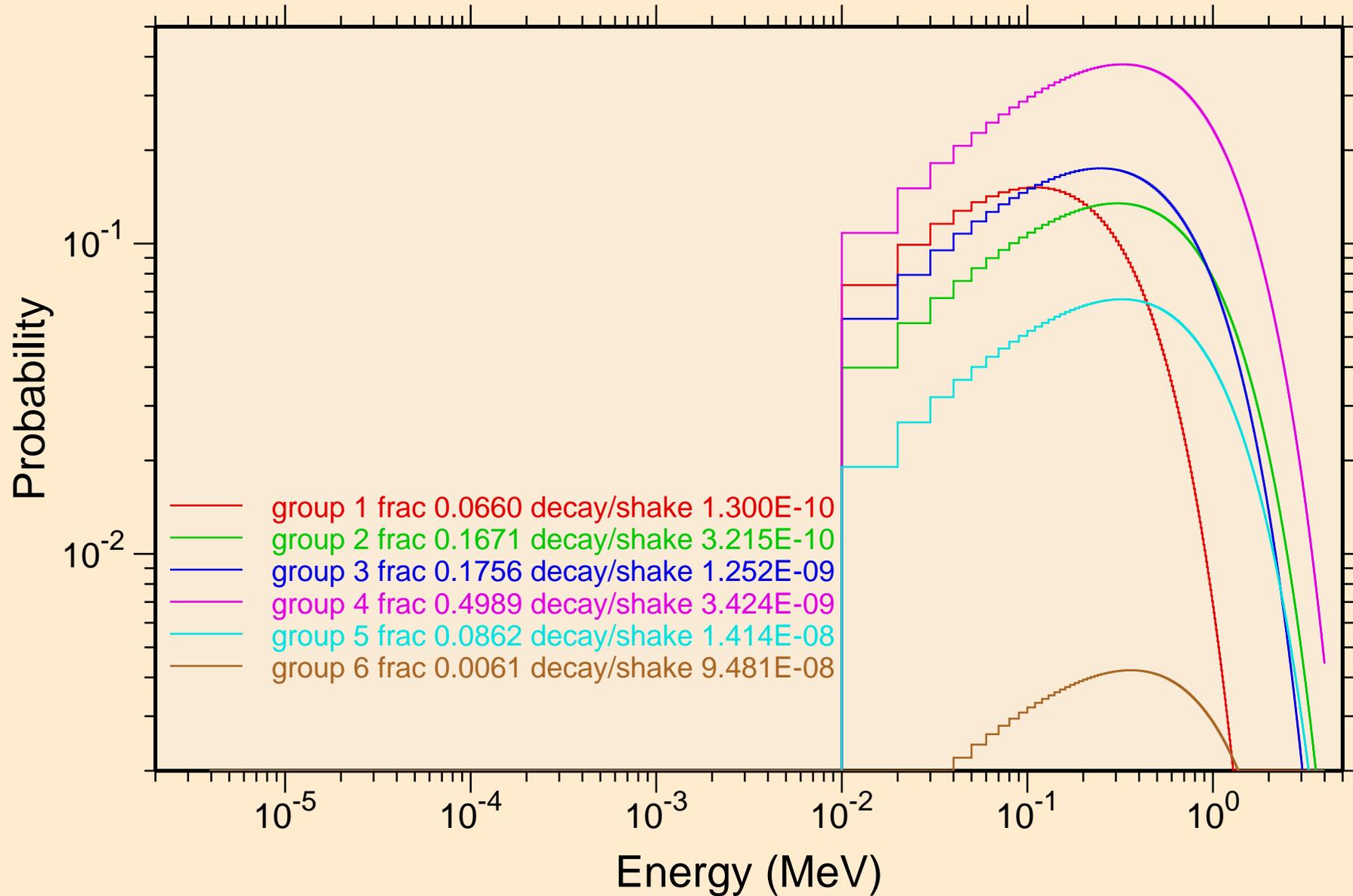
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## Delayed nubar

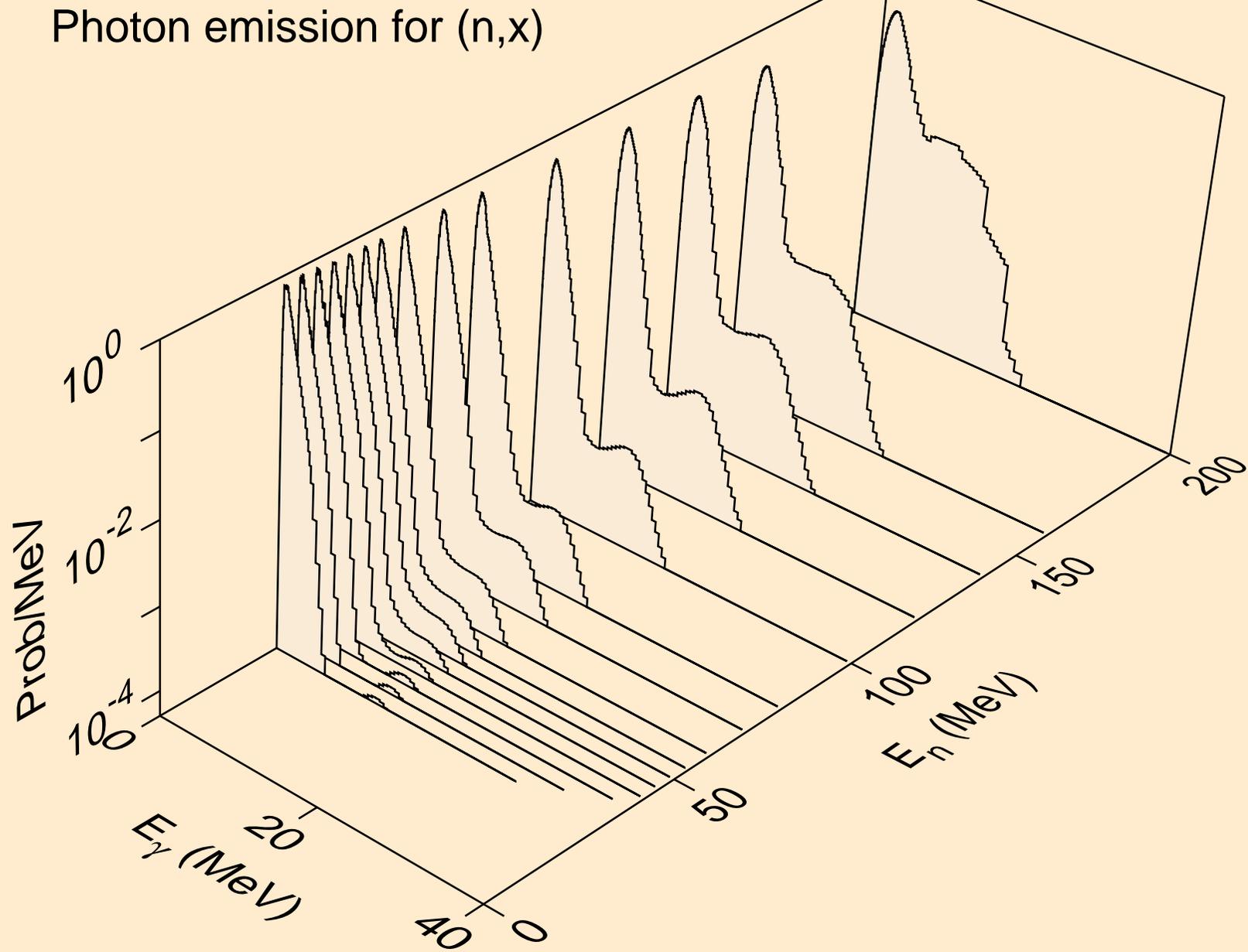


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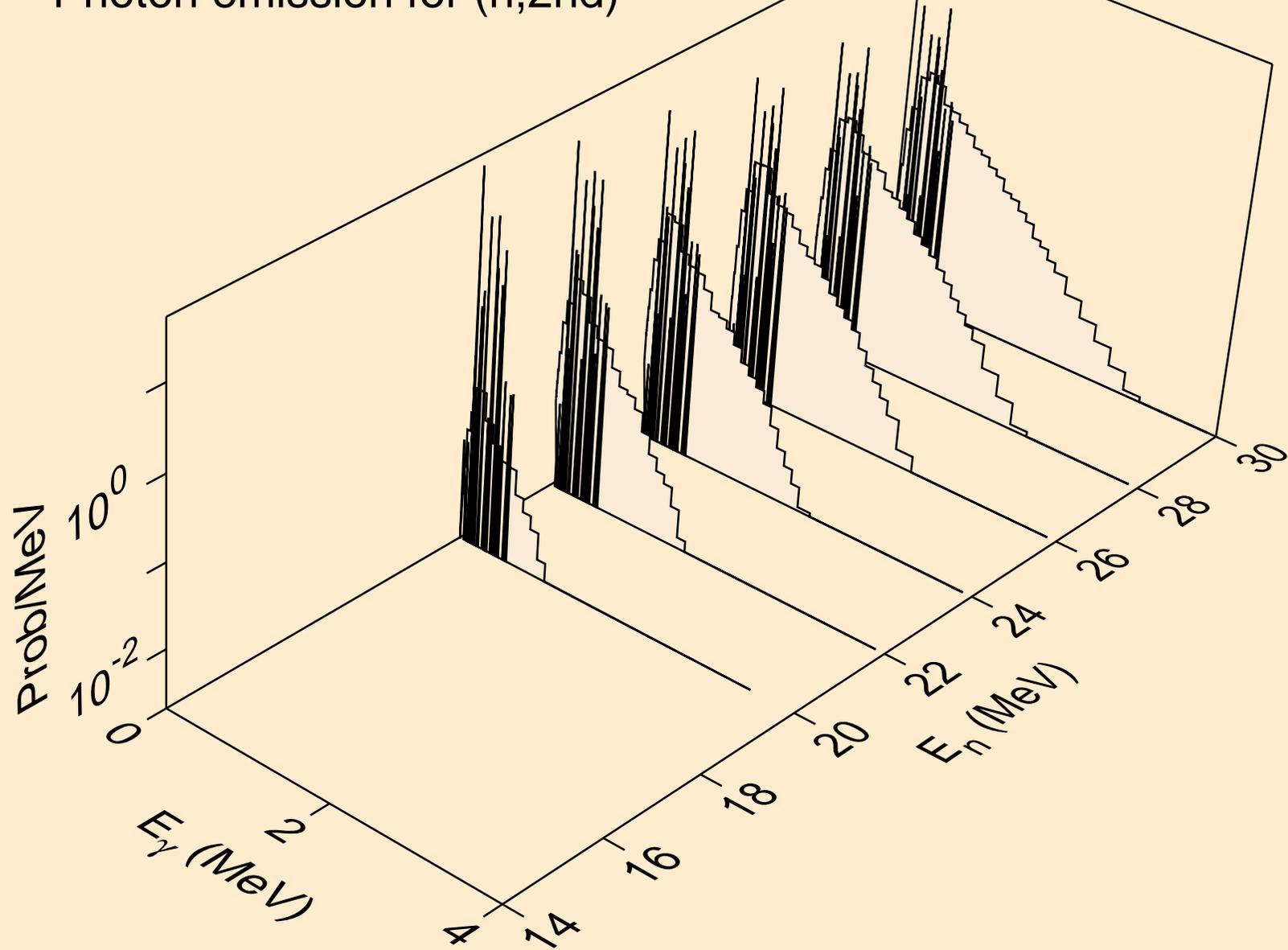
## Delayed neutron spectra



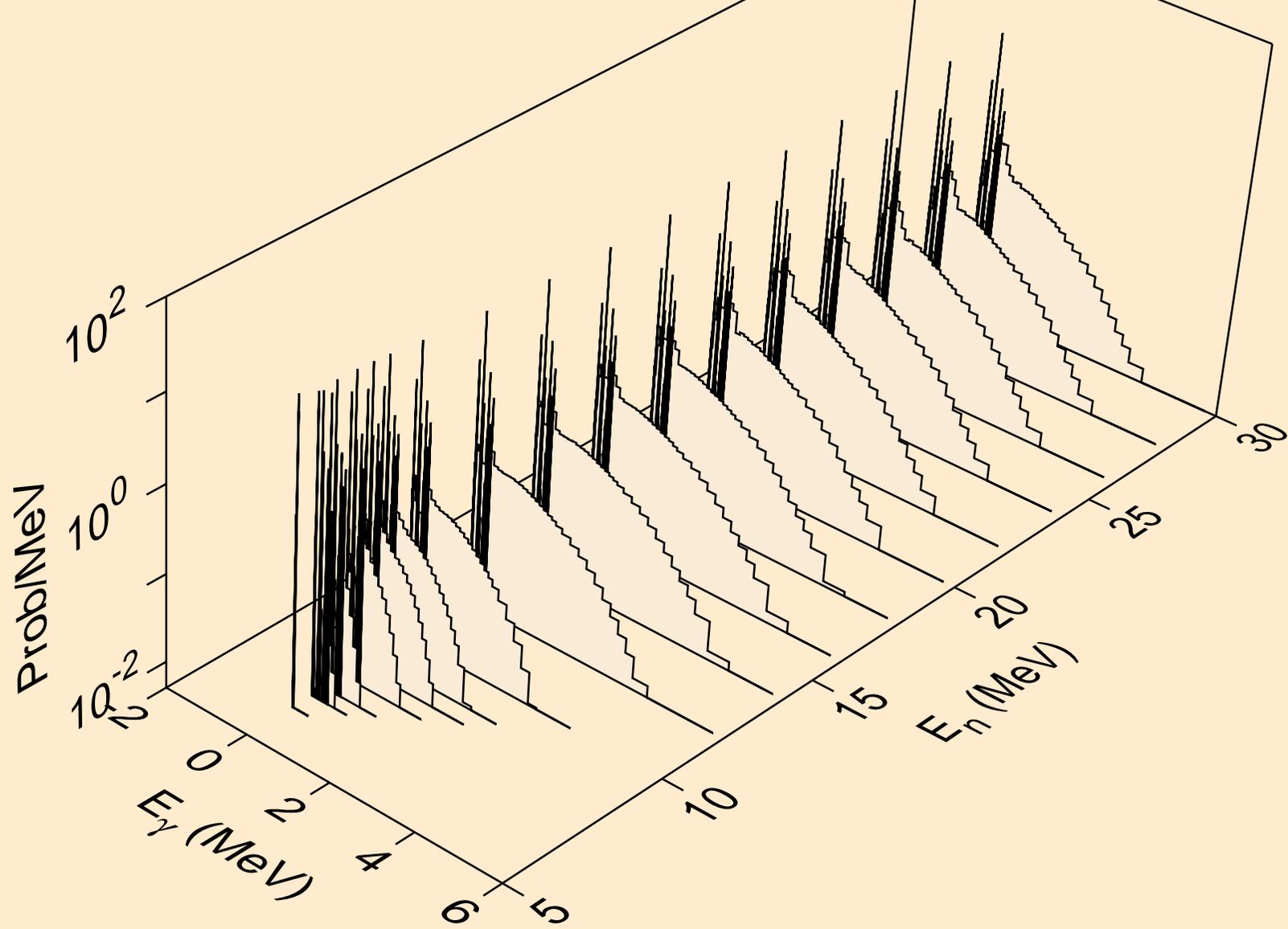
RN220 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,x)



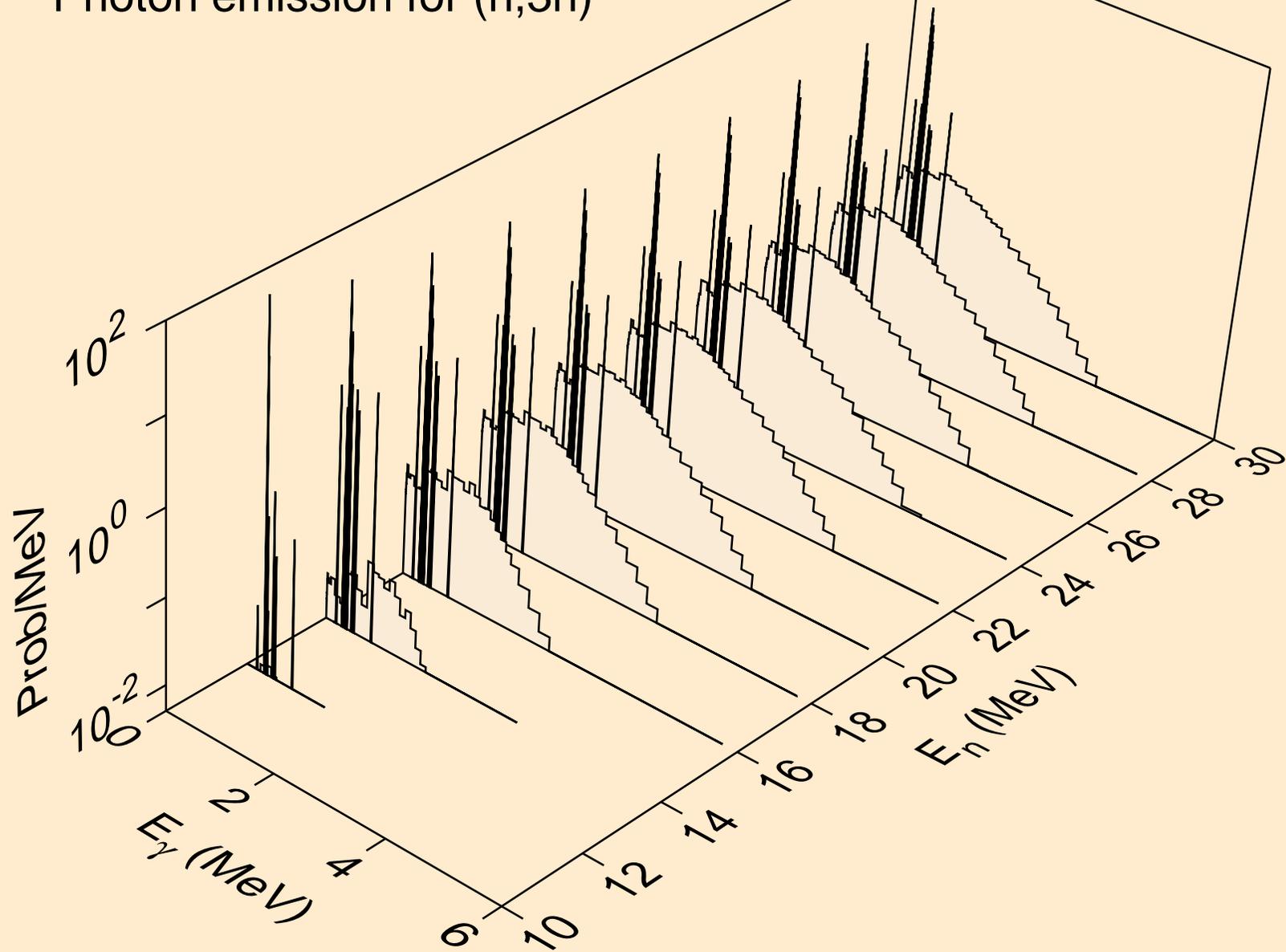
RN220 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2nd)



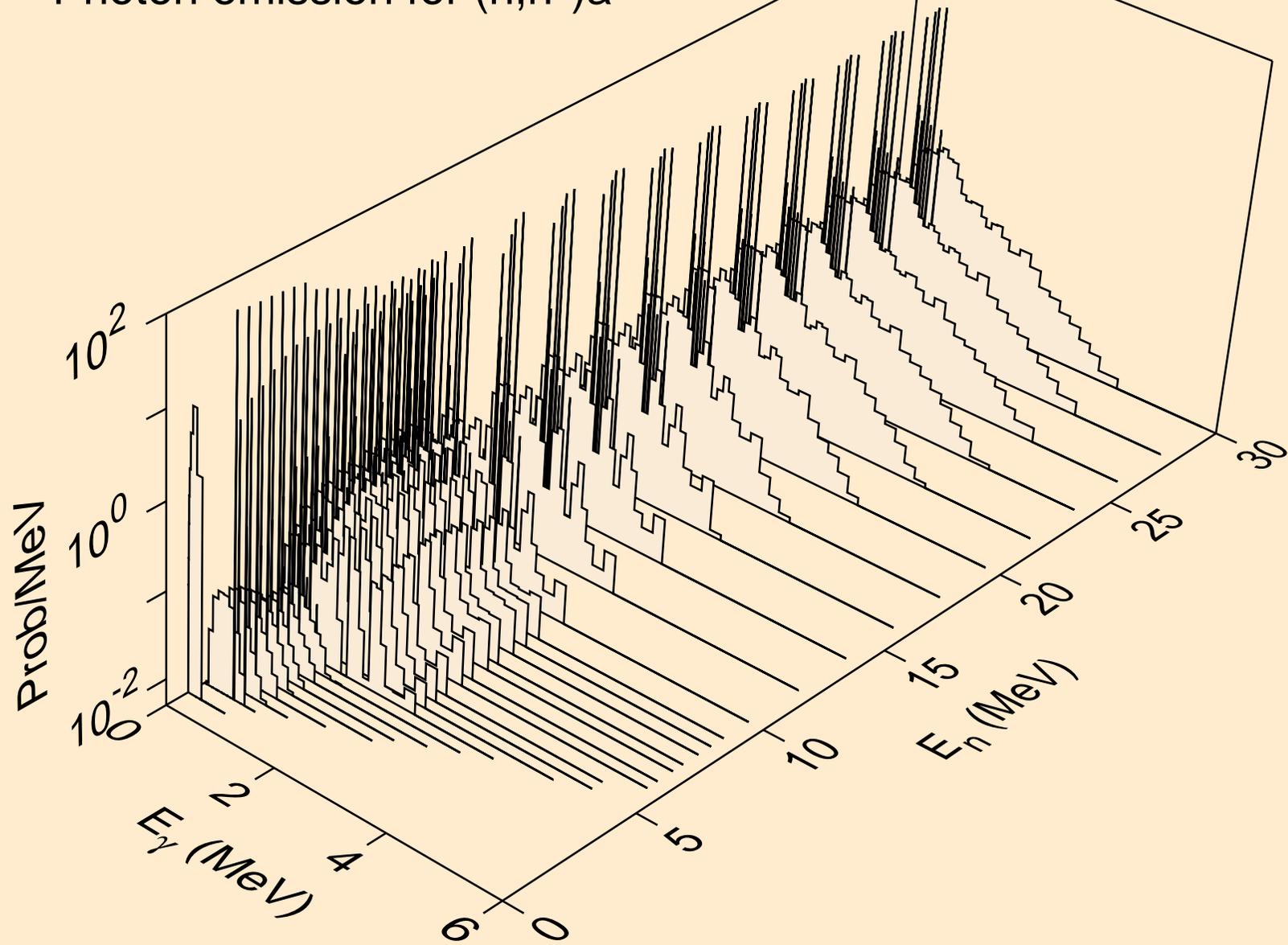
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Photon emission for (n,2n)



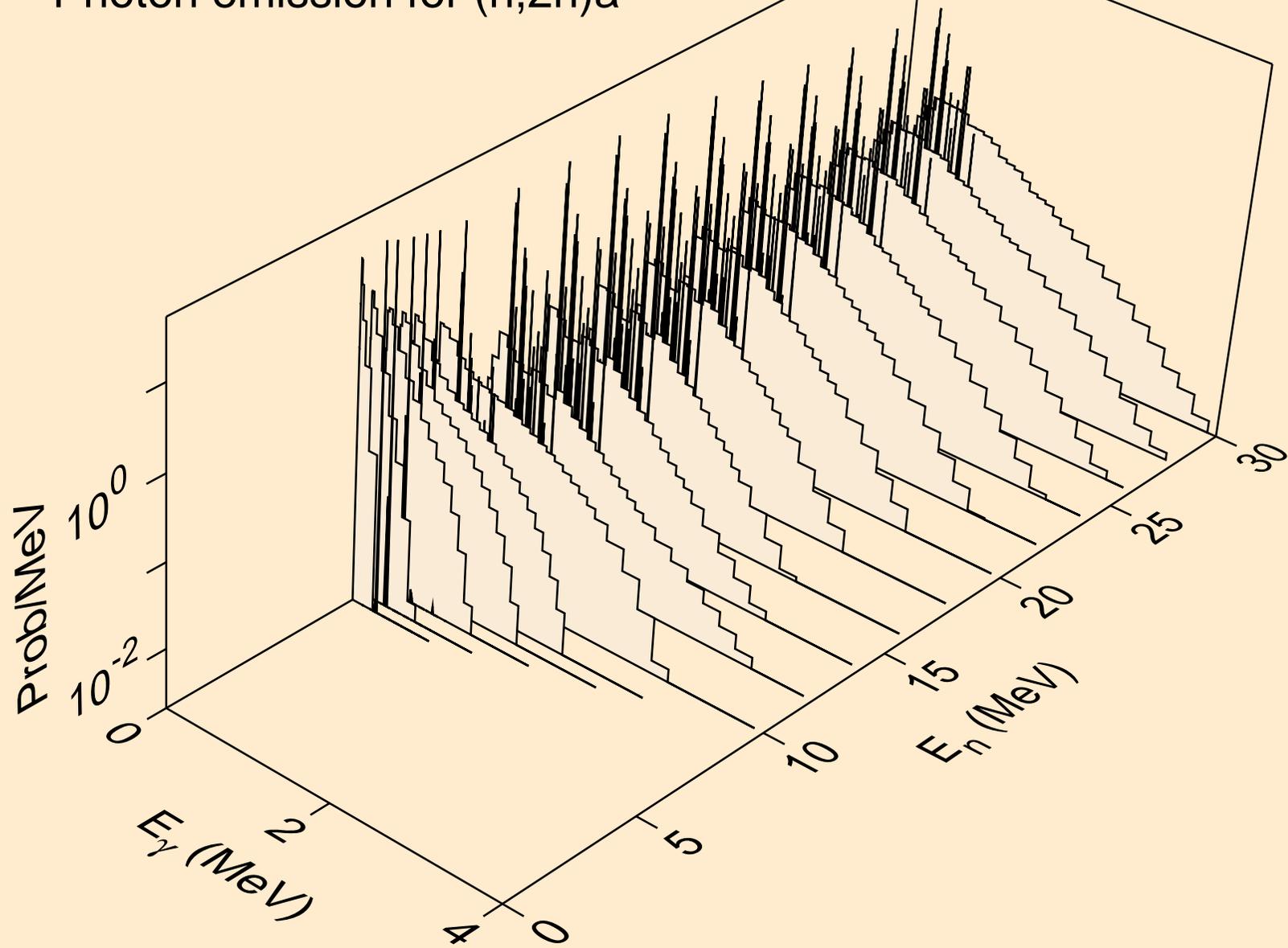
RN220 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,3n)



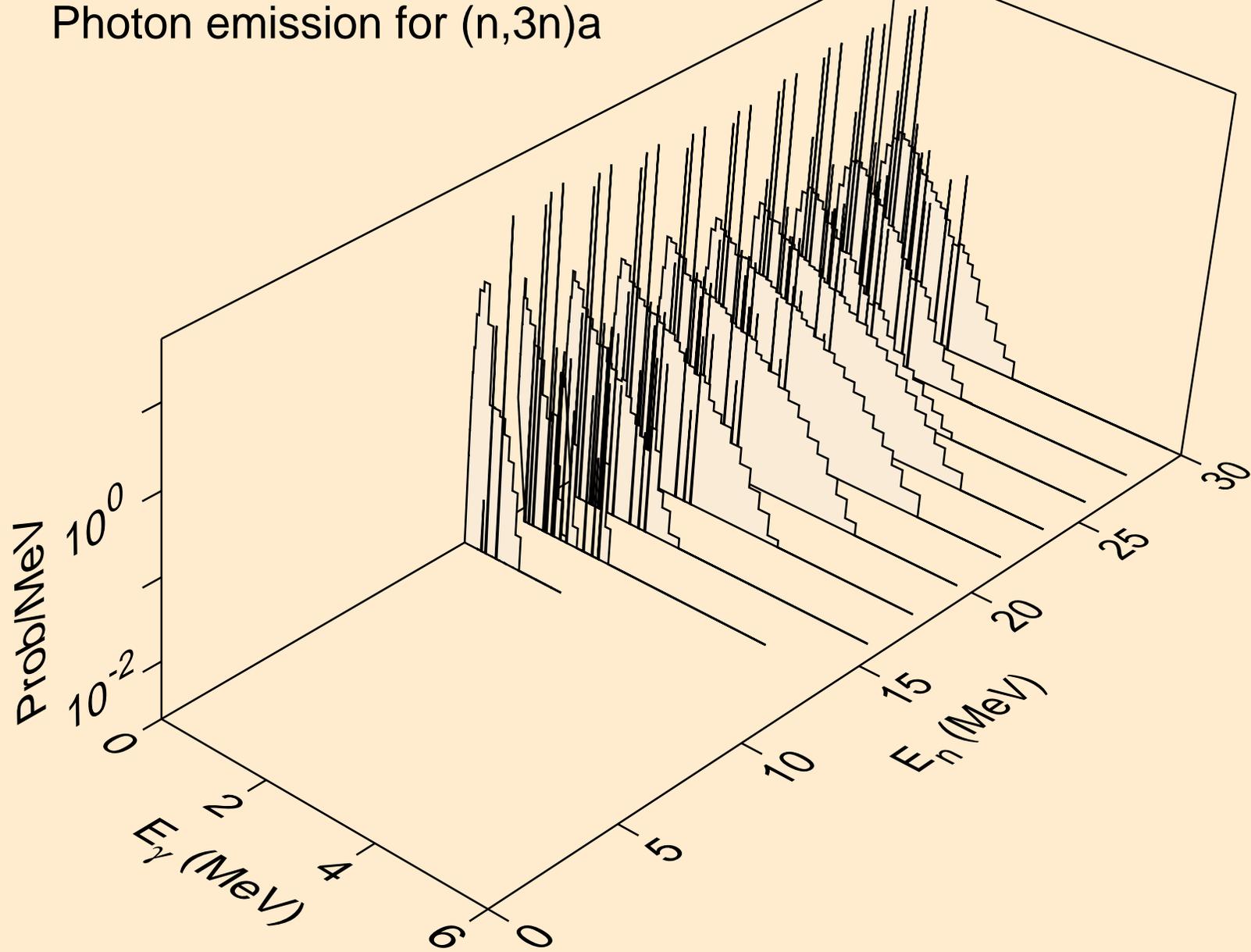
RN220 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)a



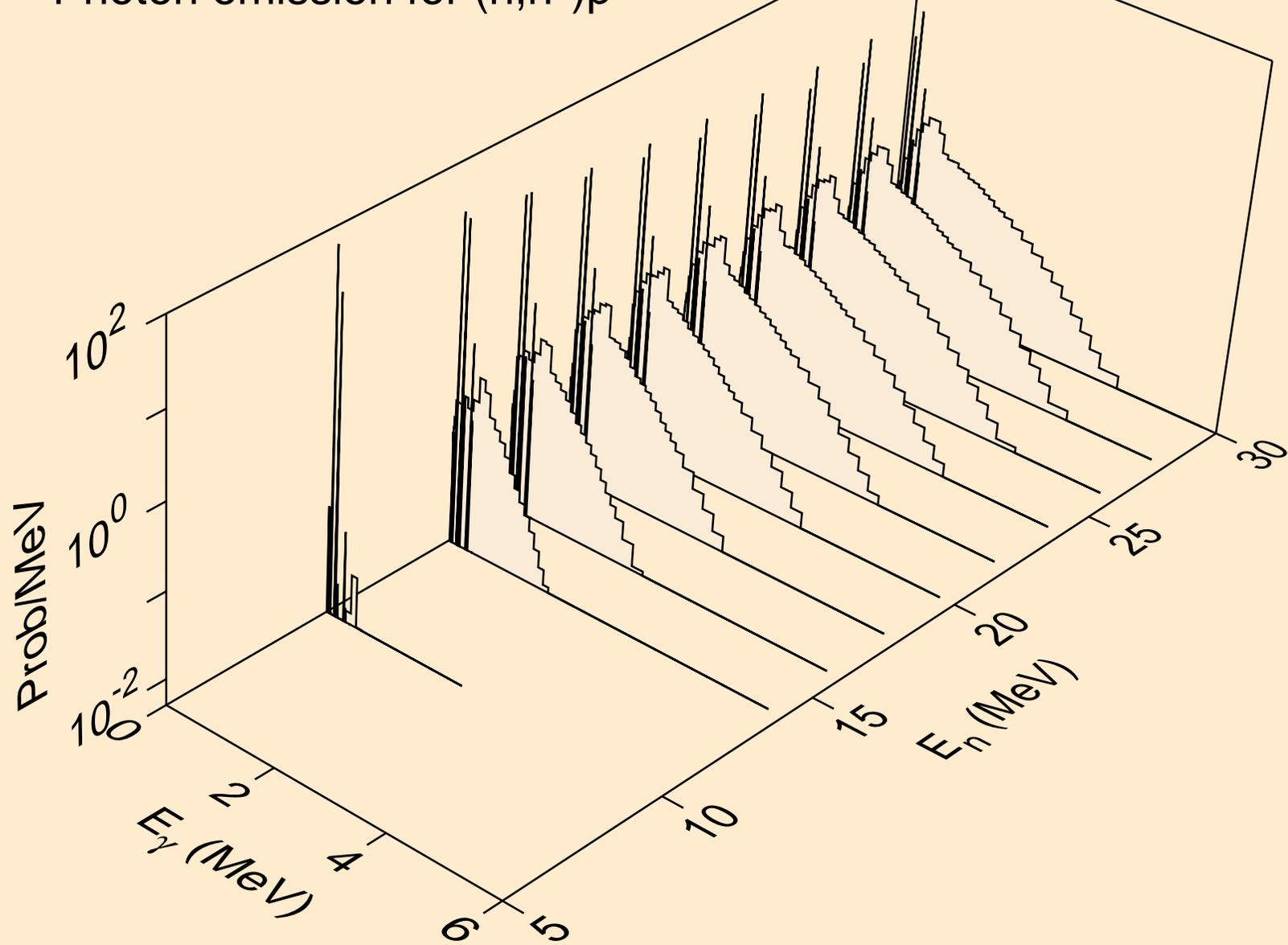
RN220 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2n)a



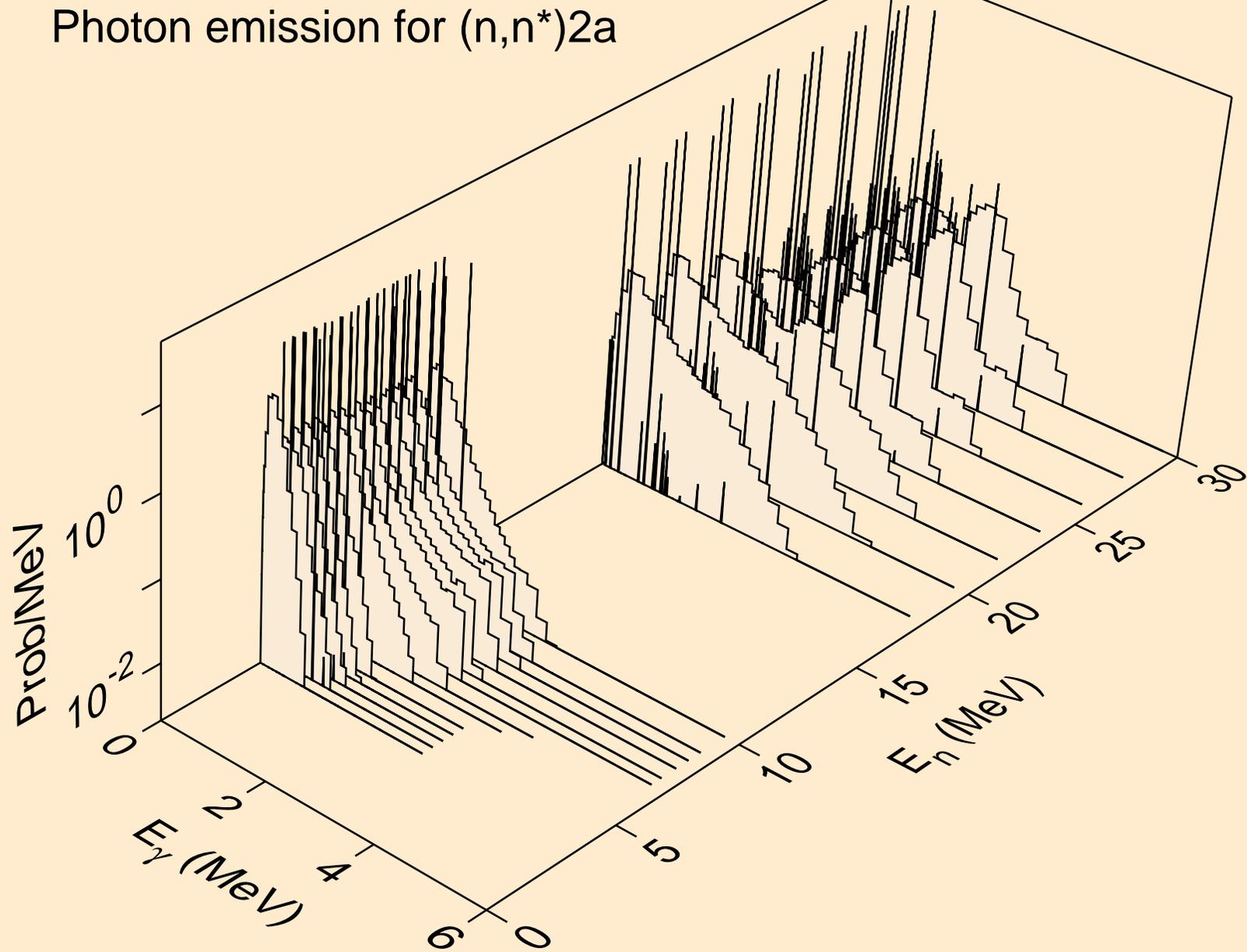
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Photon emission for (n,3n)a



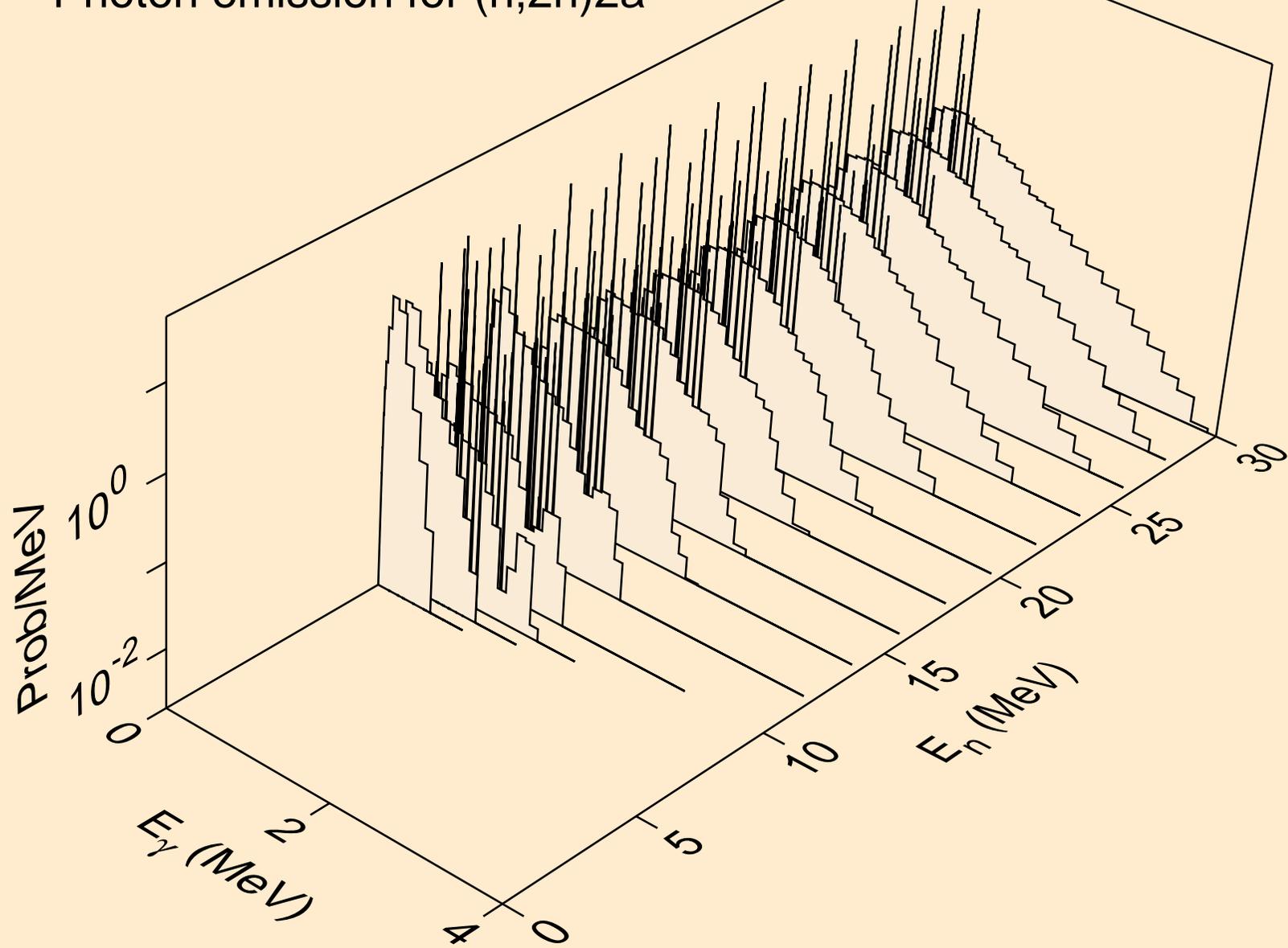
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Photon emission for (n,n\*)p



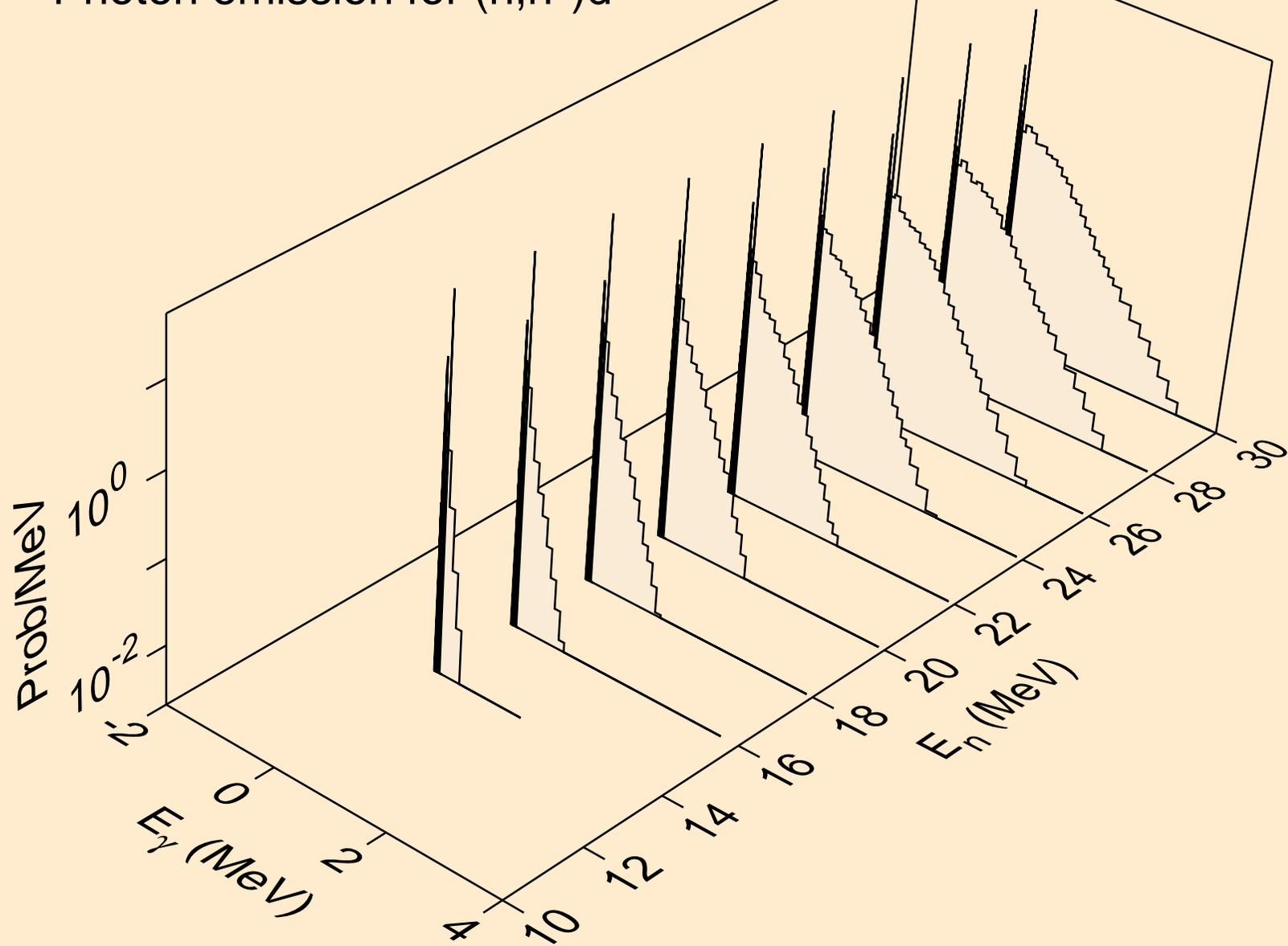
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Photon emission for (n,n\*)2a



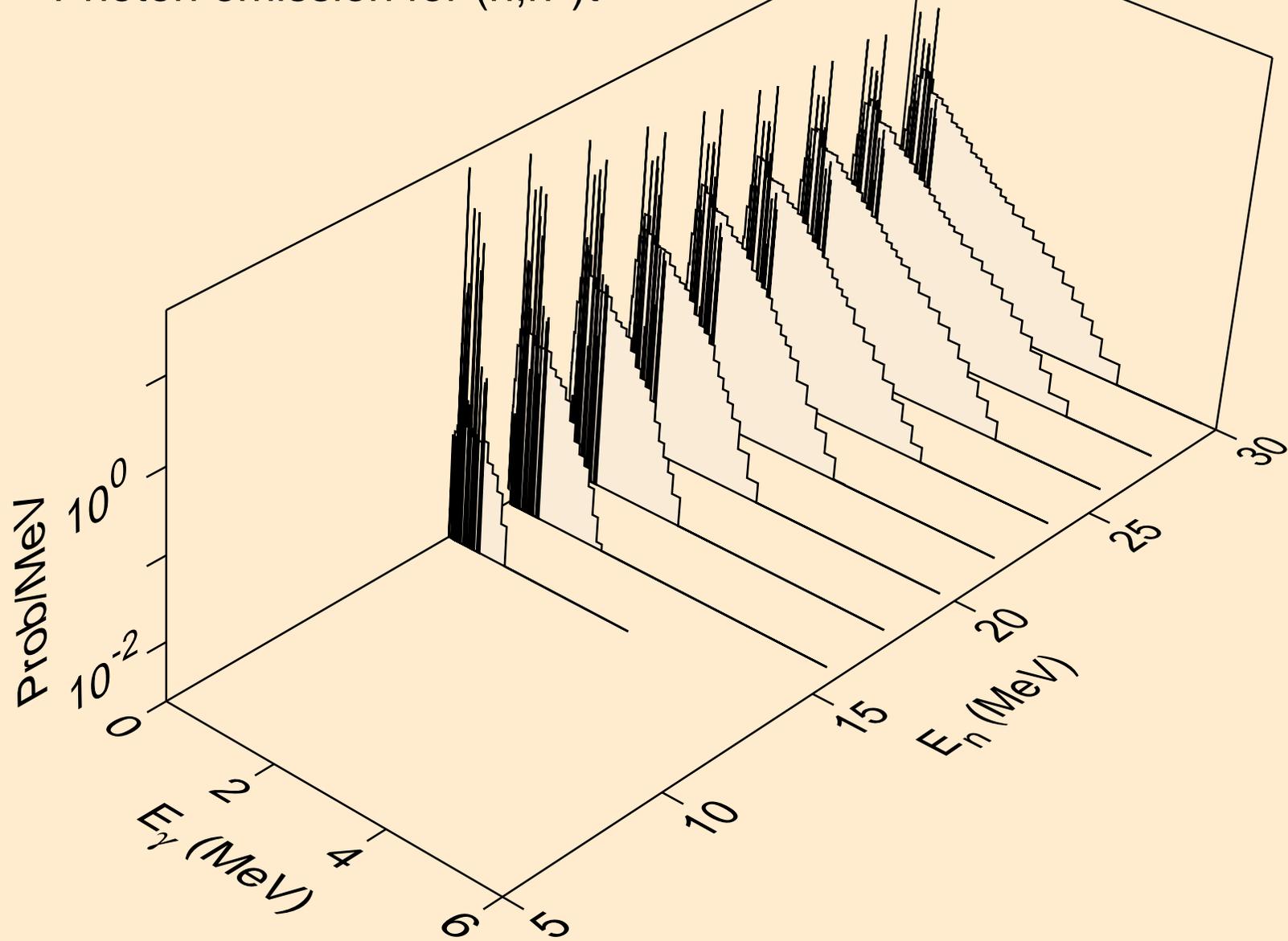
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Photon emission for (n,2n)2a



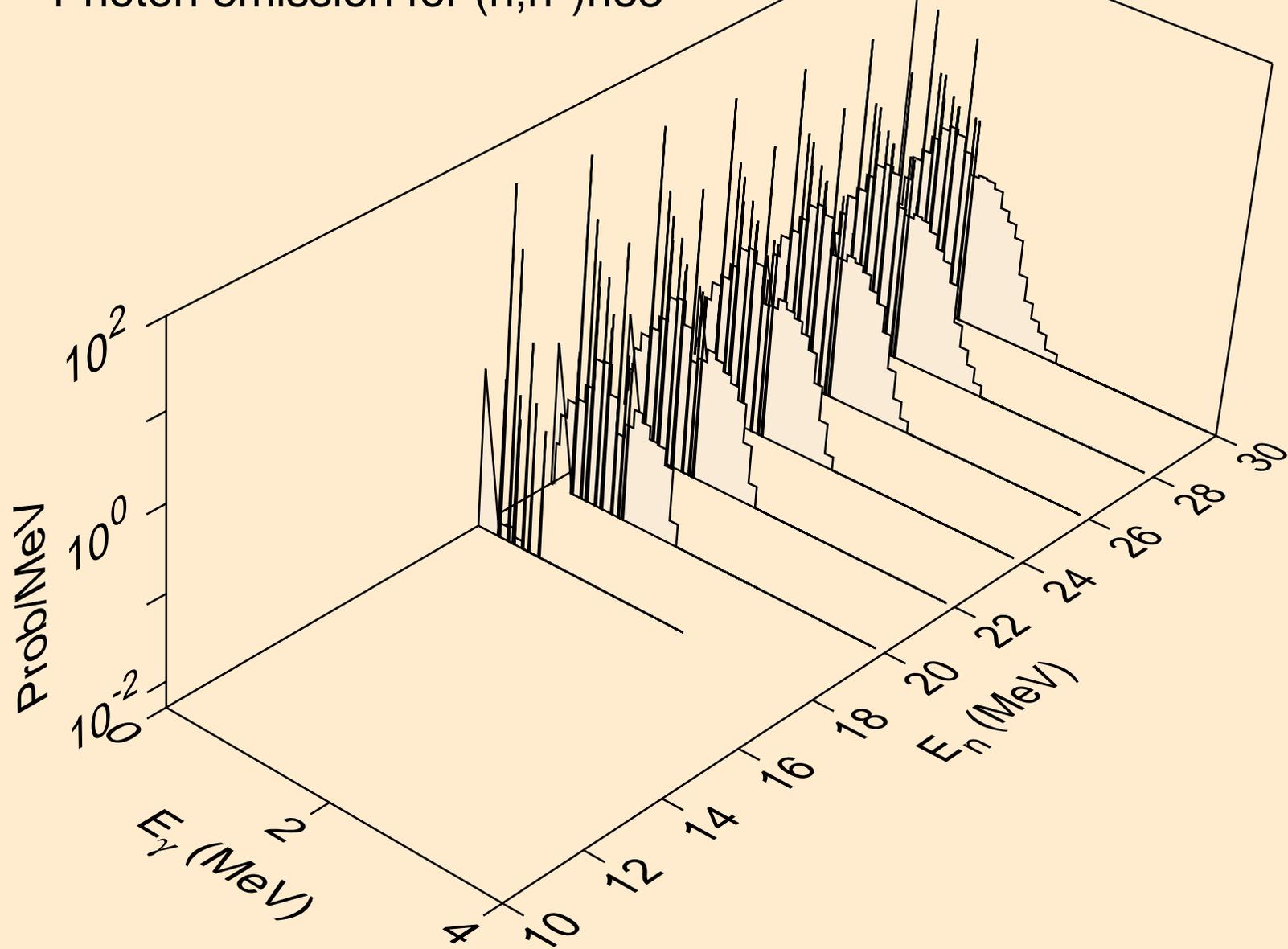
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Photon emission for (n,n\*)d



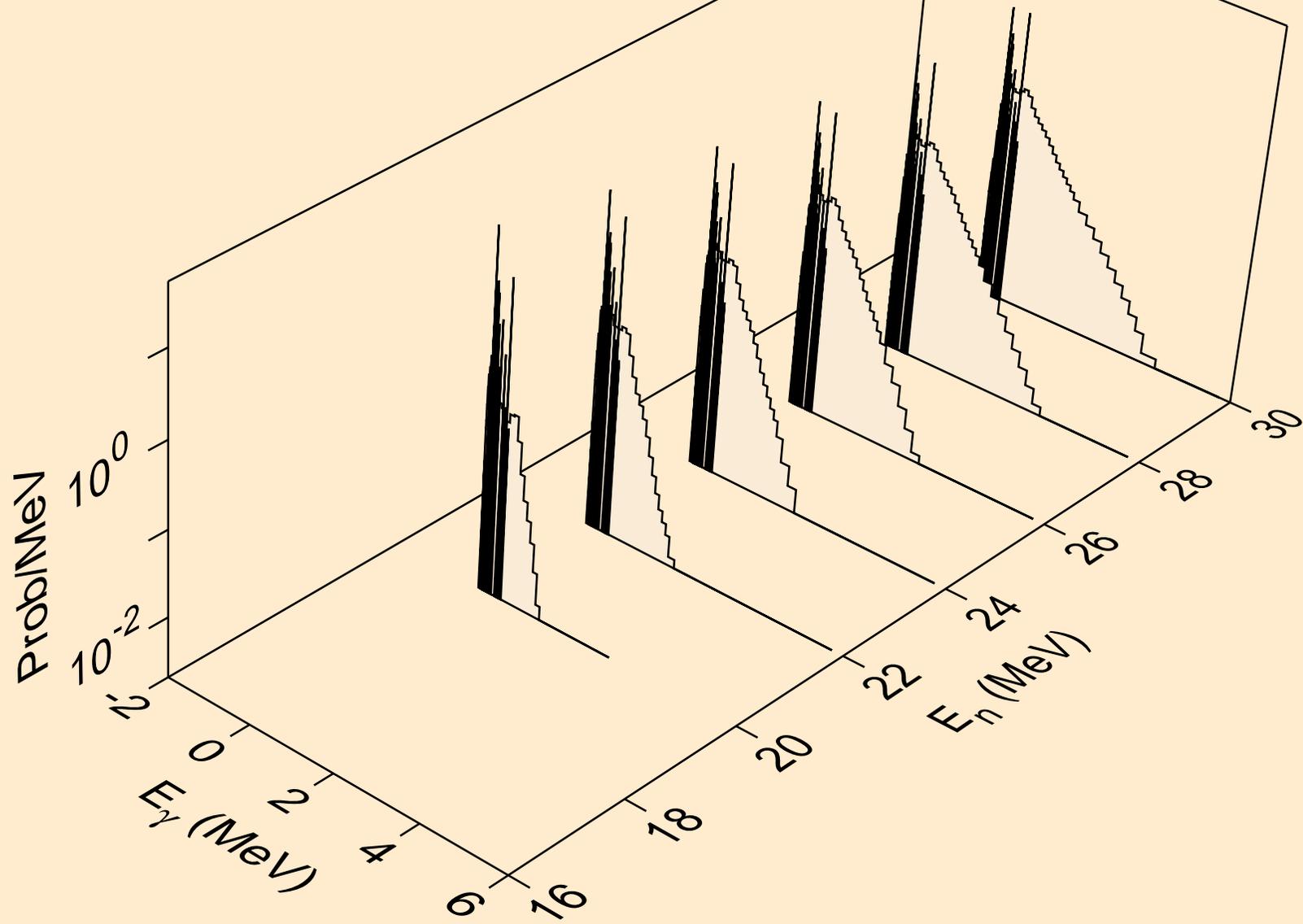
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Photon emission for (n,n\*)t



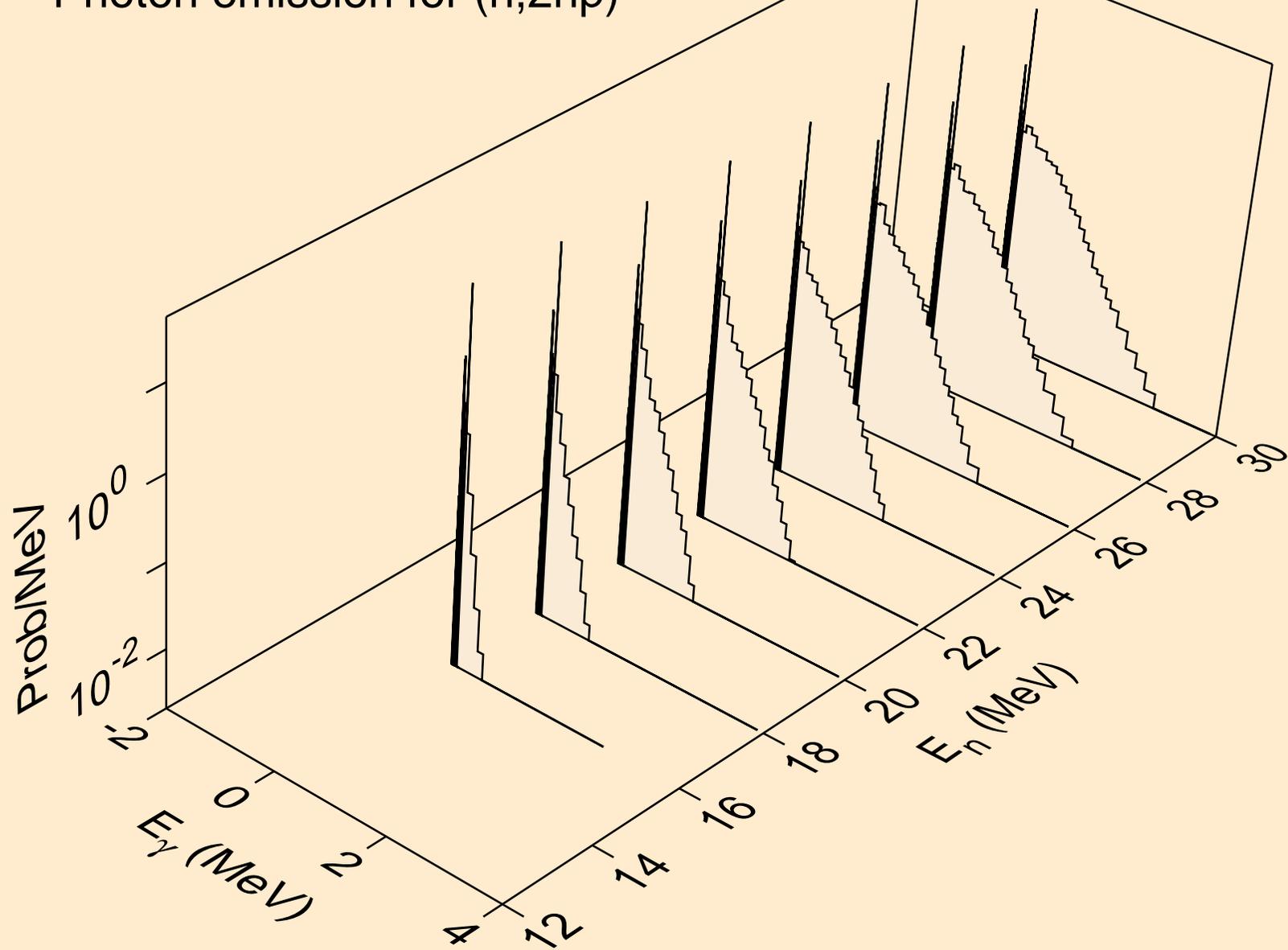
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Photon emission for (n,n\*)he3



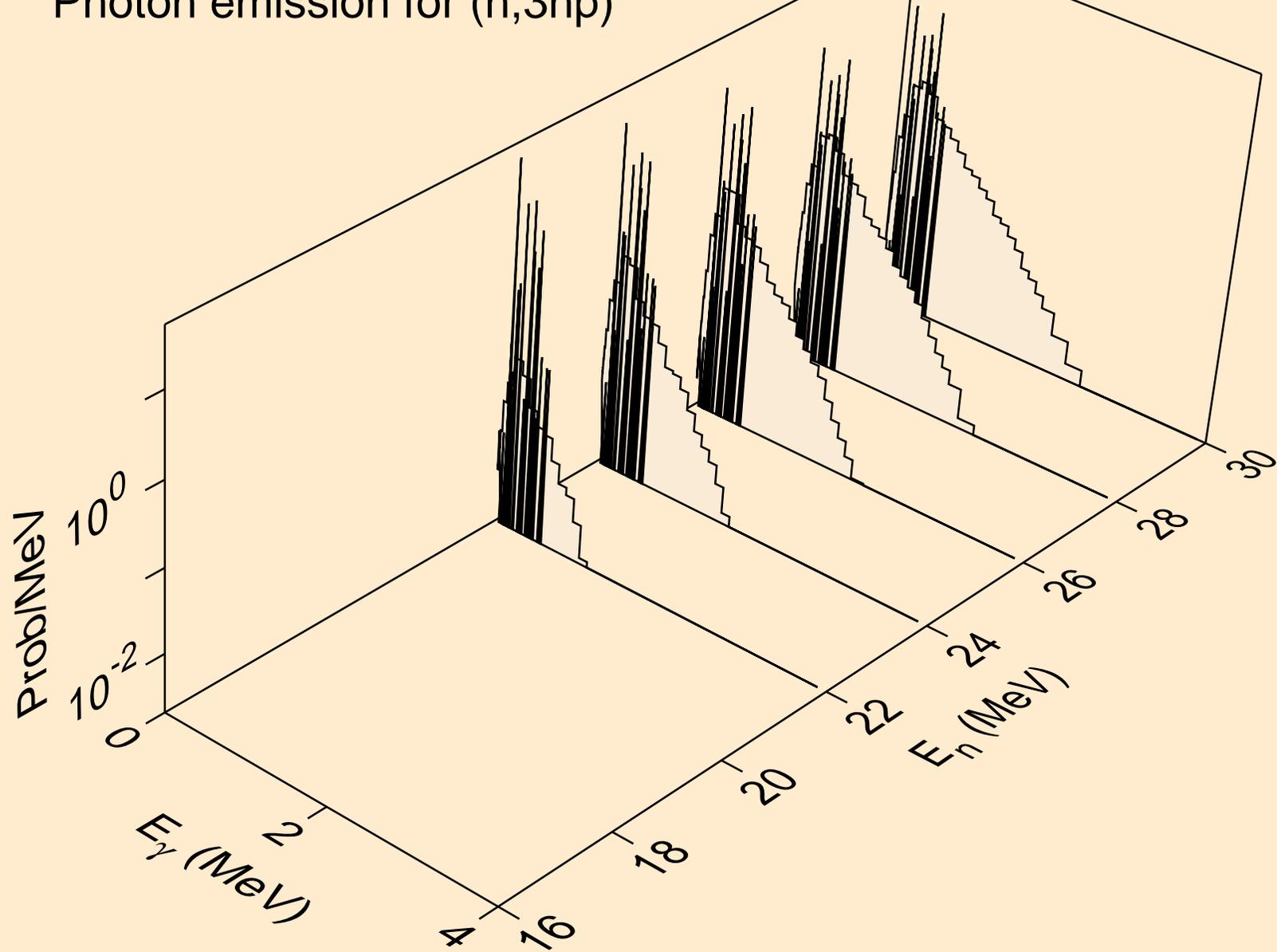
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Photon emission for (n,4n)



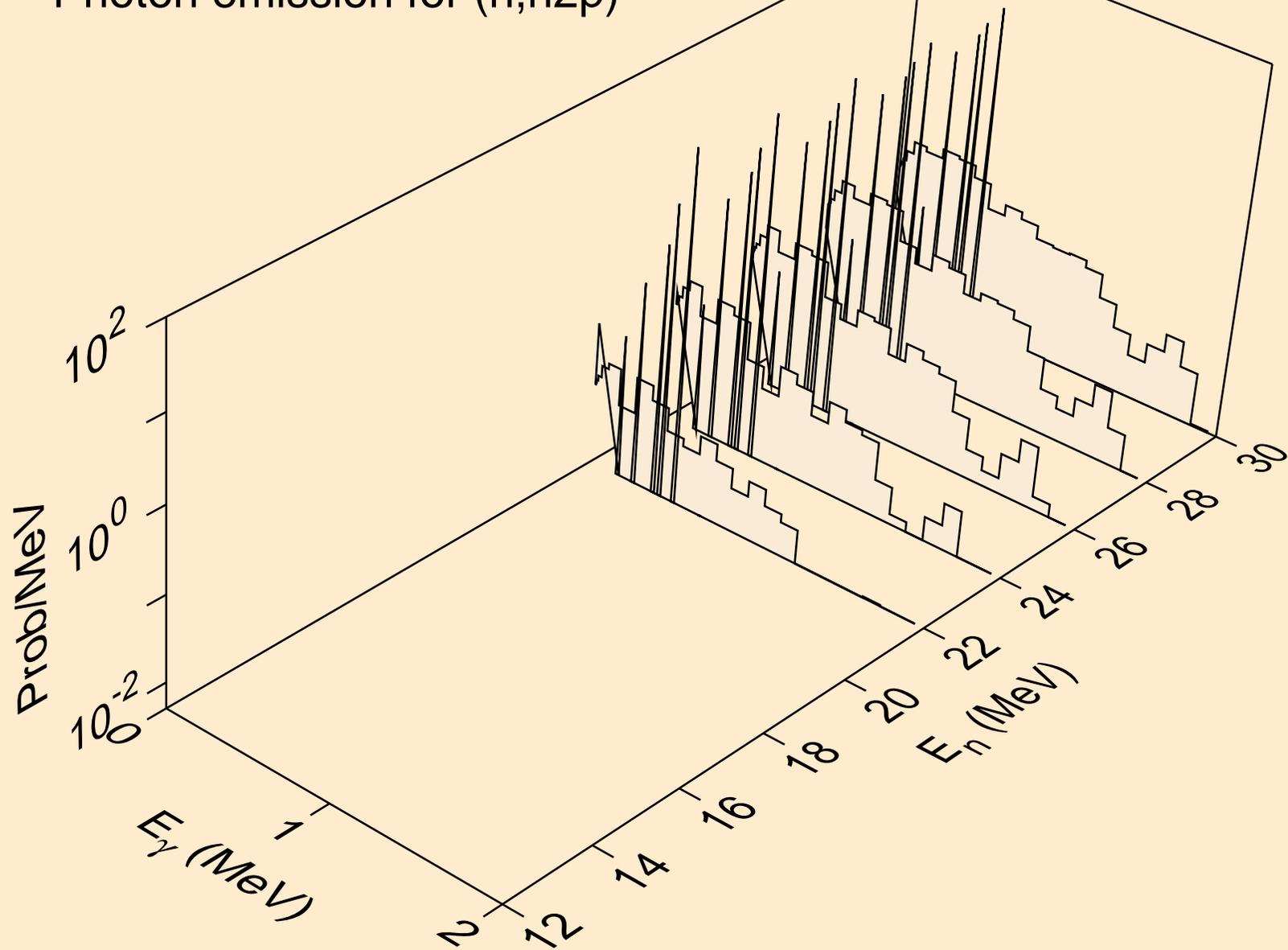
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Photon emission for (n,2np)



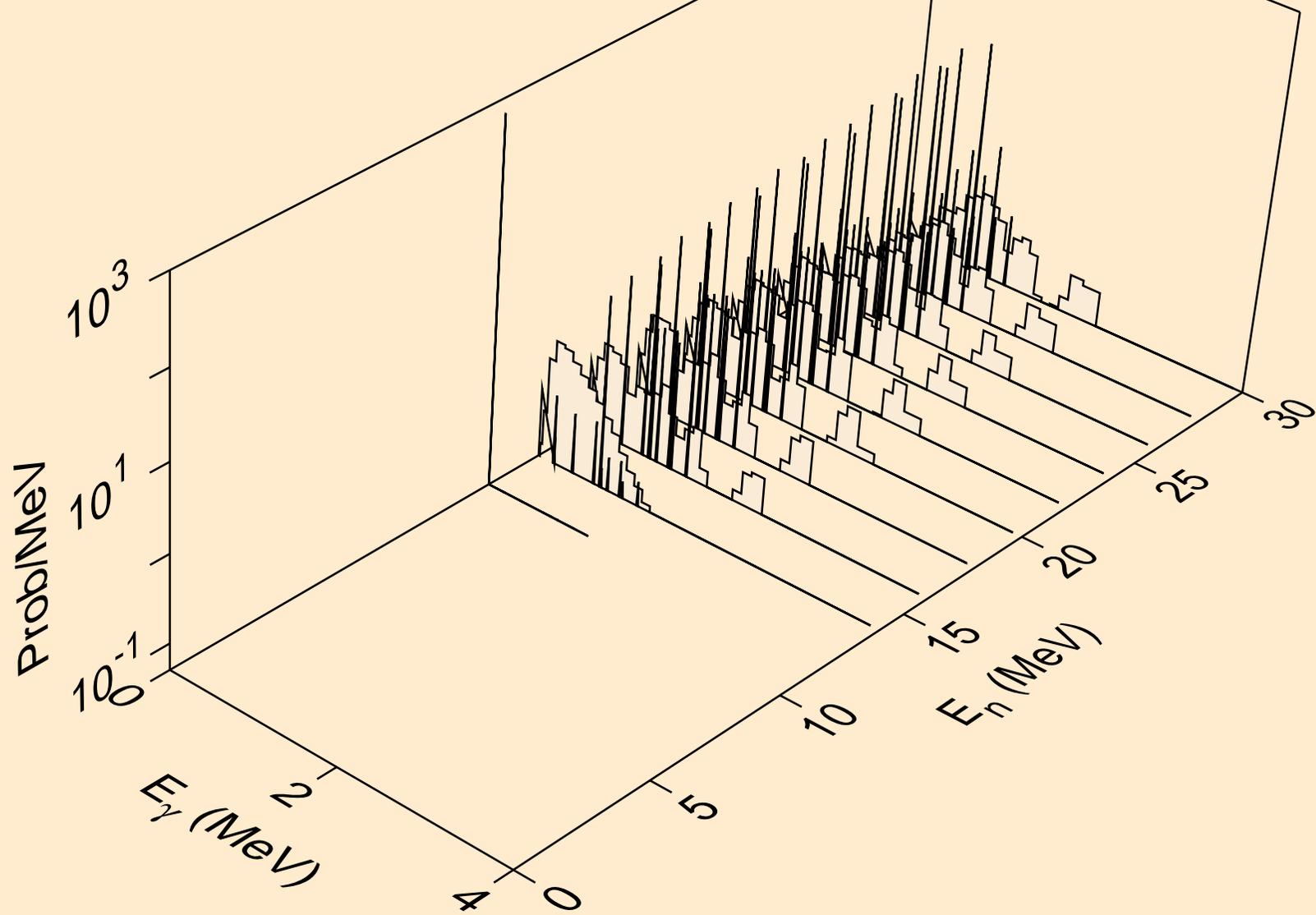
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Photon emission for (n,3np)



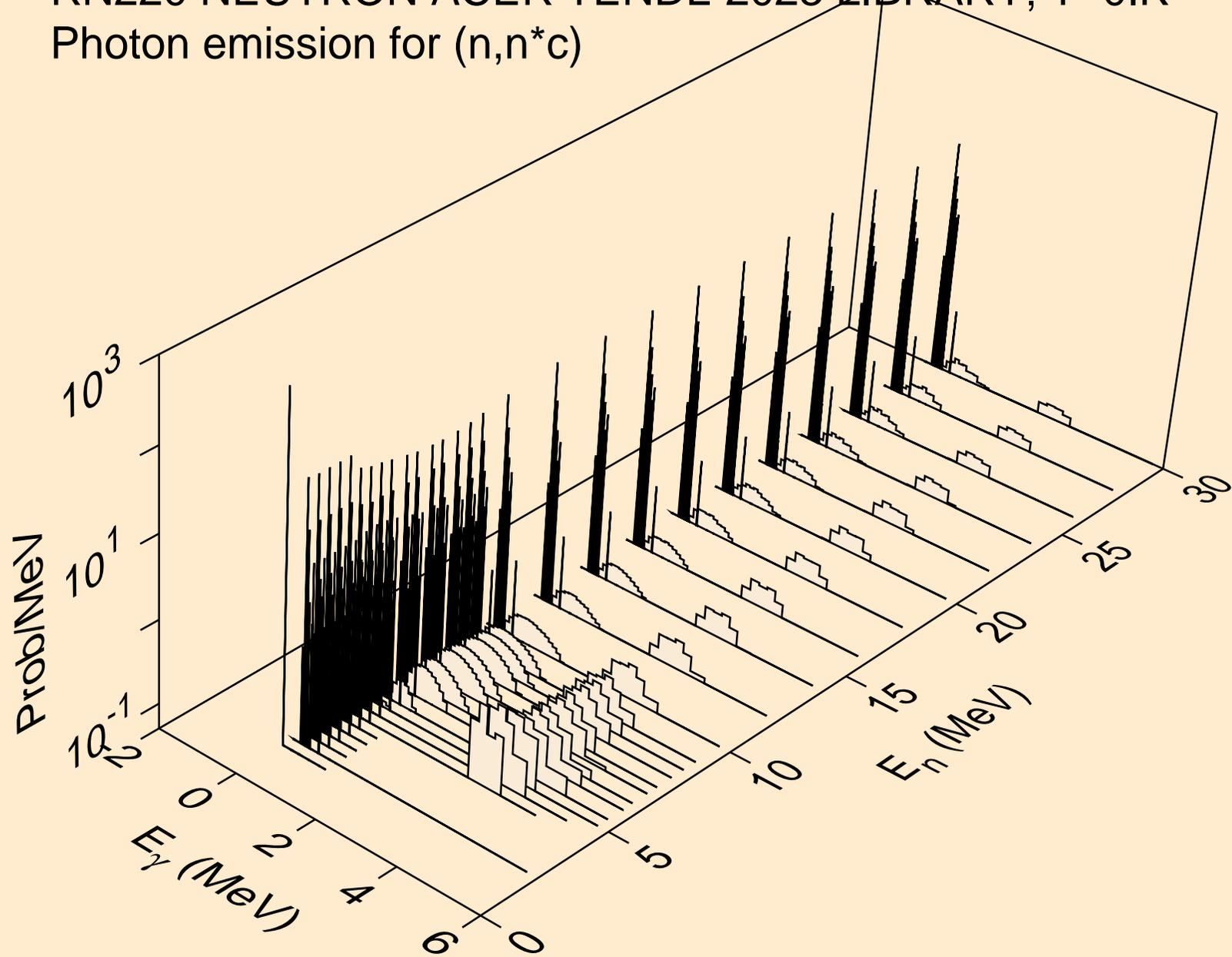
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Photon emission for (n,n2p)



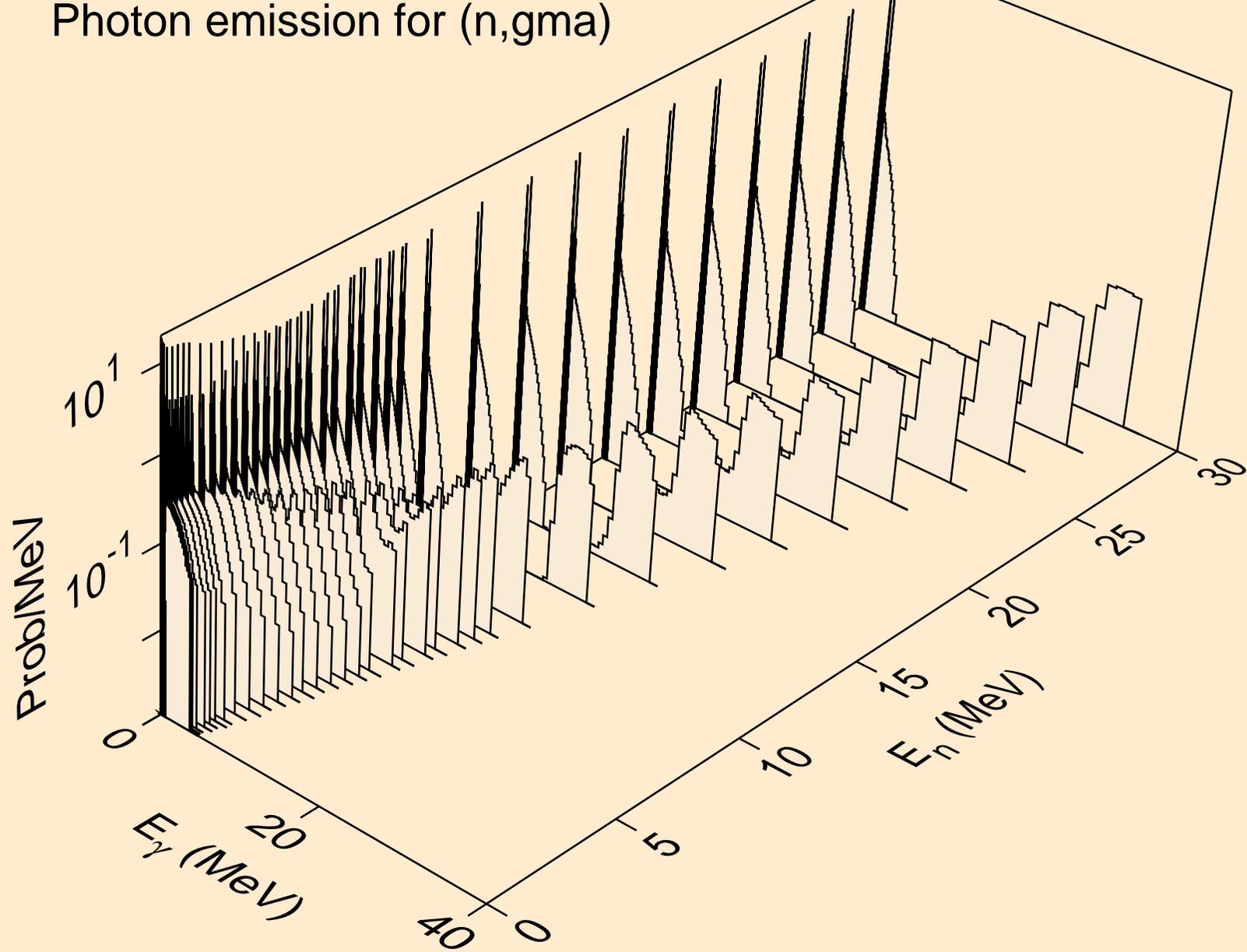
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Photon emission for (n,npa)



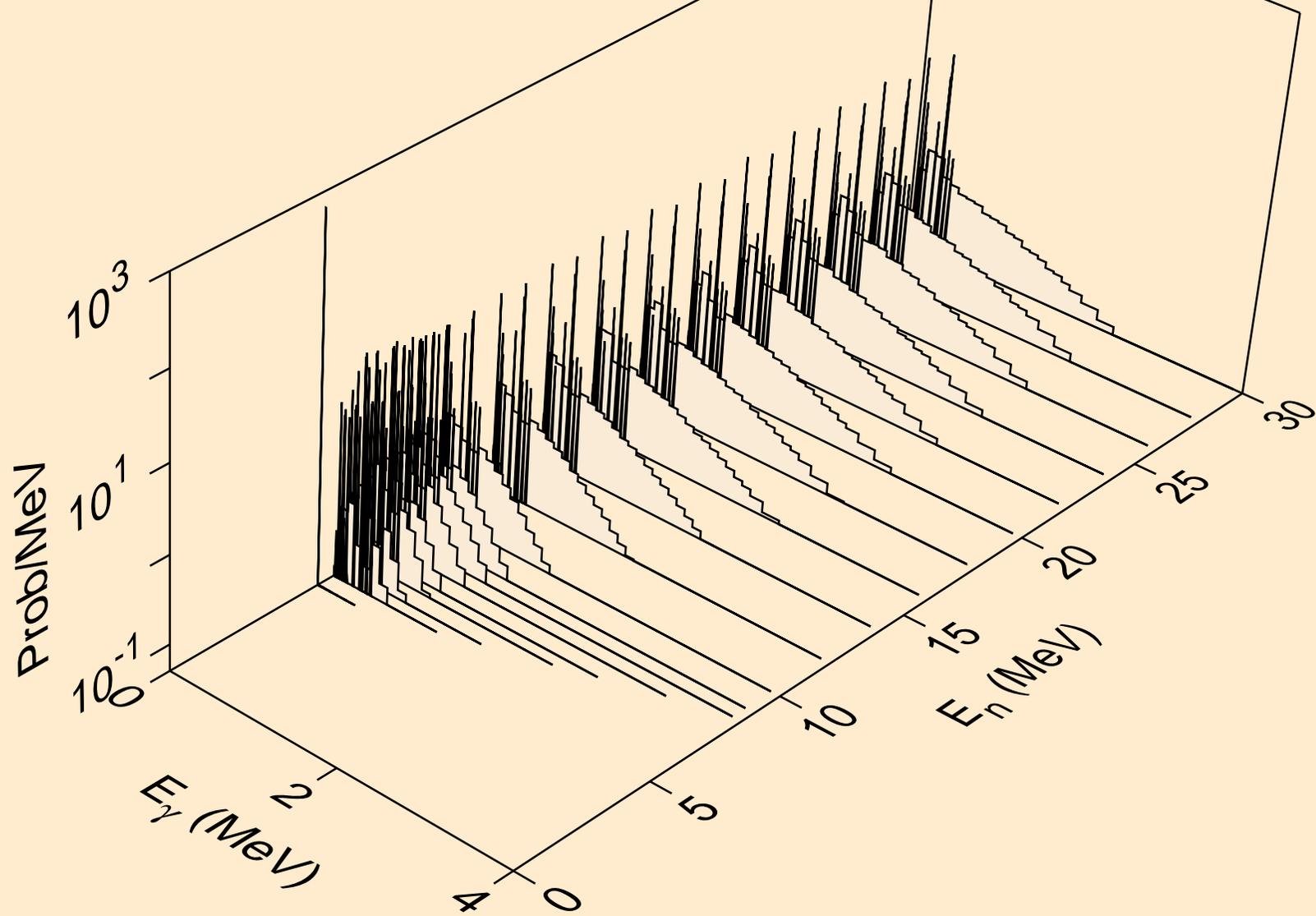
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Photon emission for (n,n\*c)



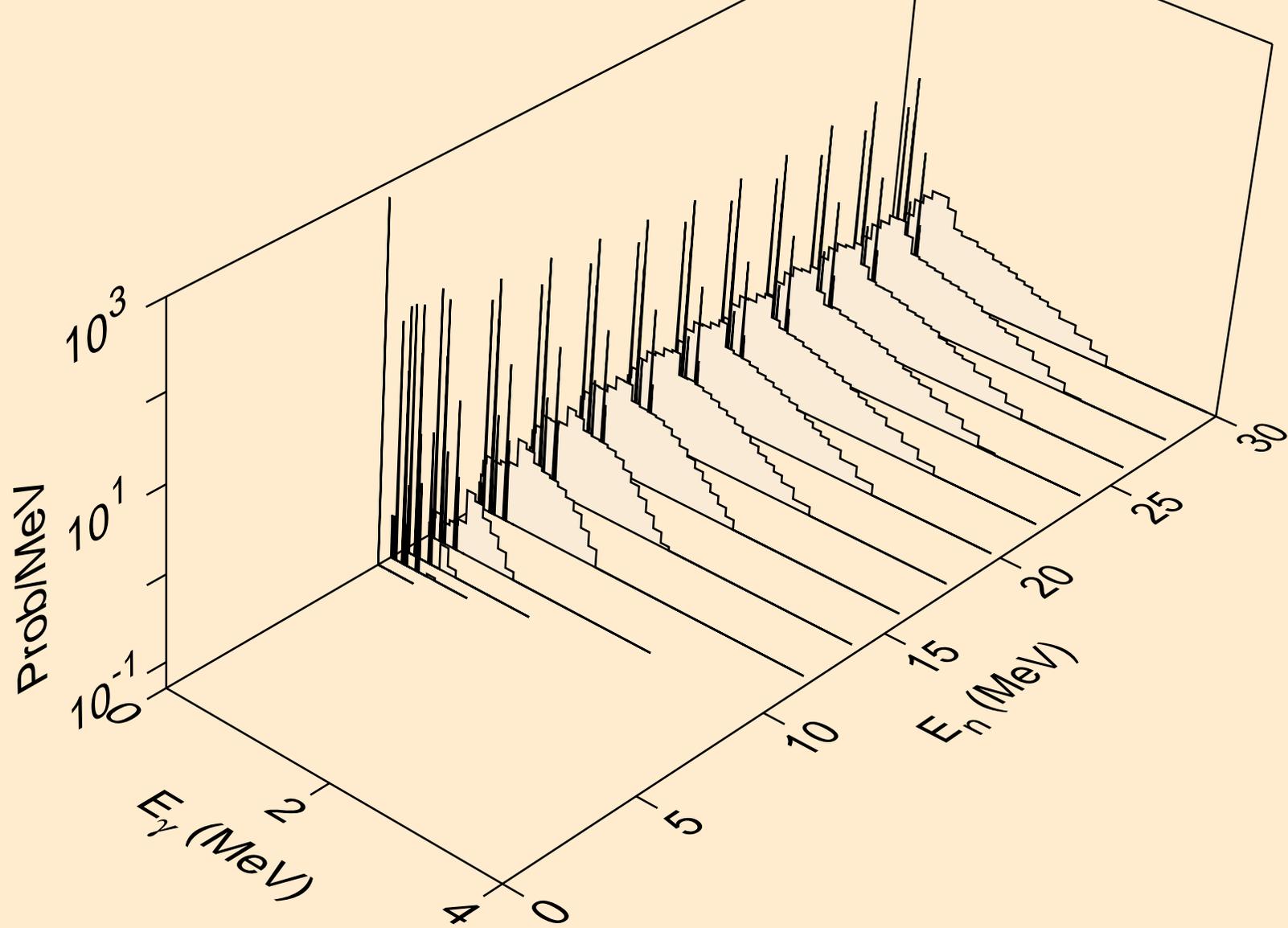
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Photon emission for (n,gma)



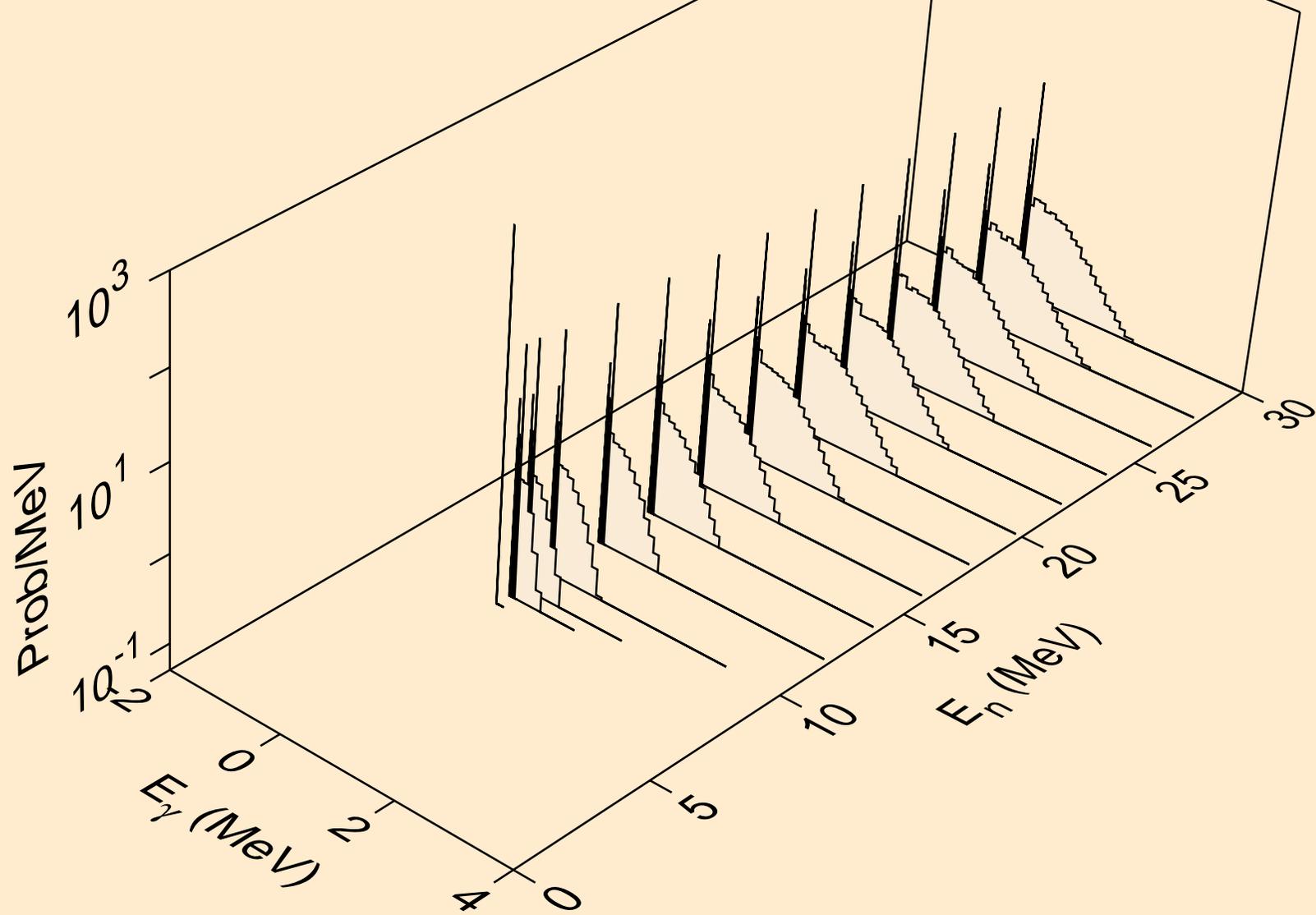
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Photon emission for (n,p)



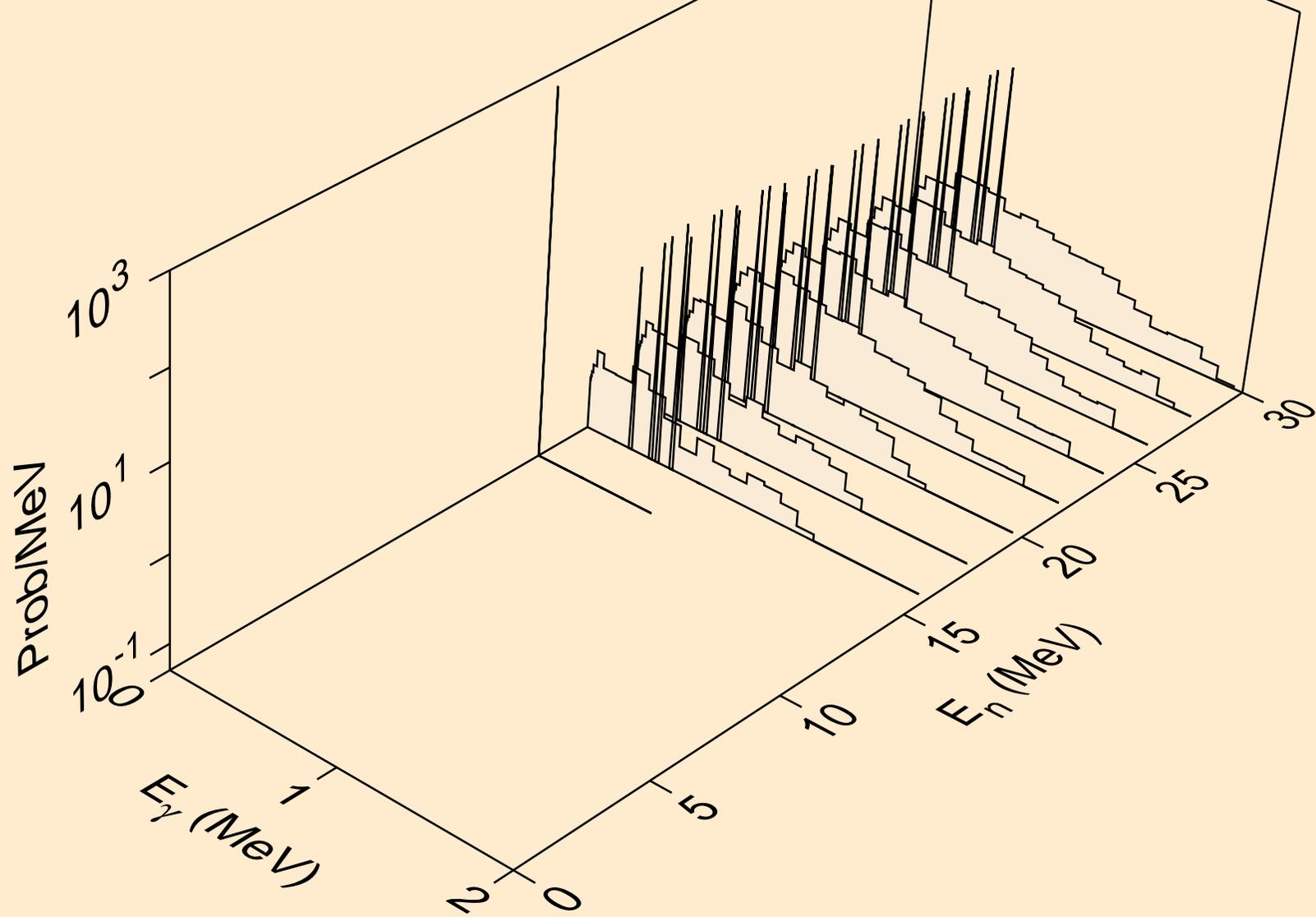
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Photon emission for (n,d)



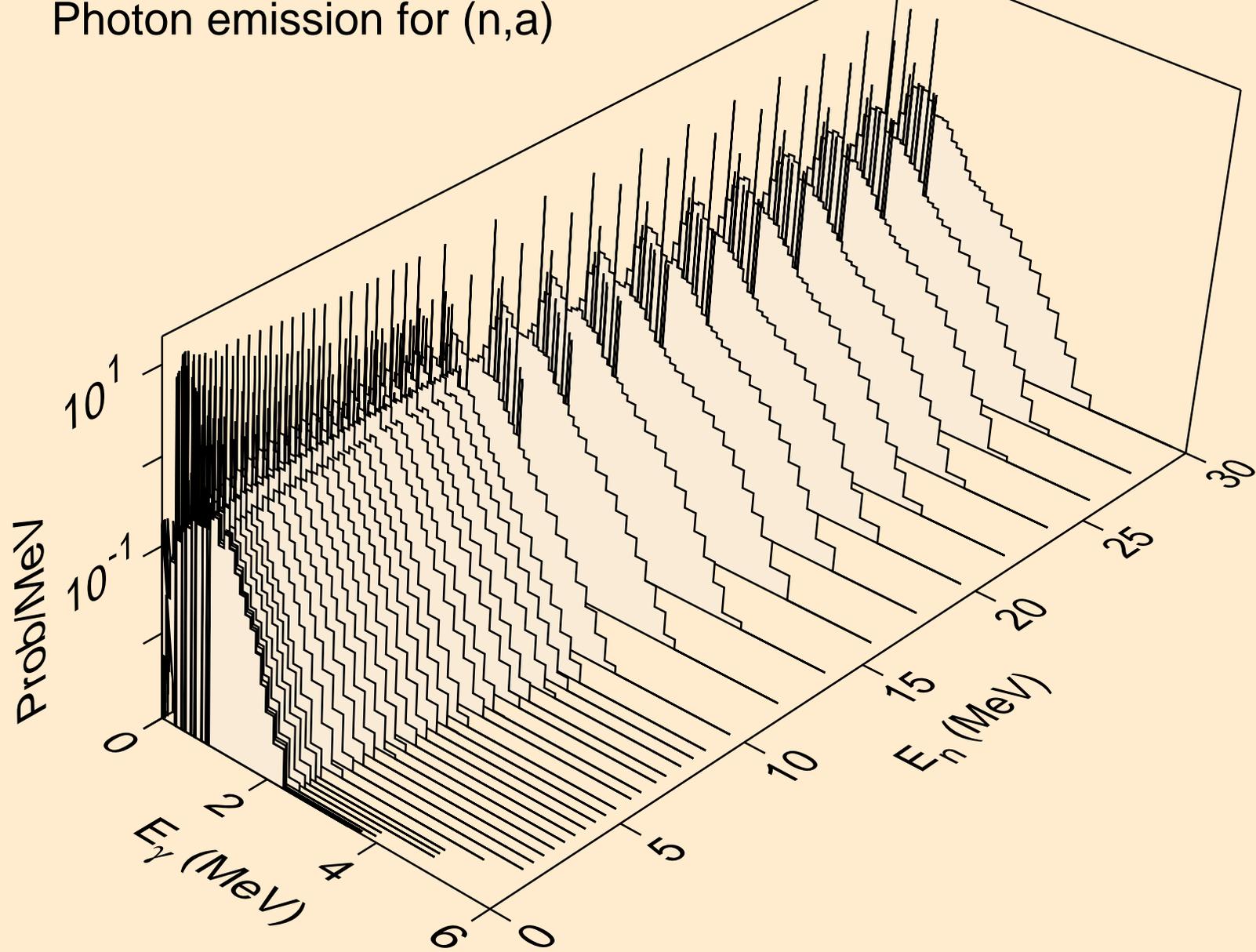
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Photon emission for (n,t)



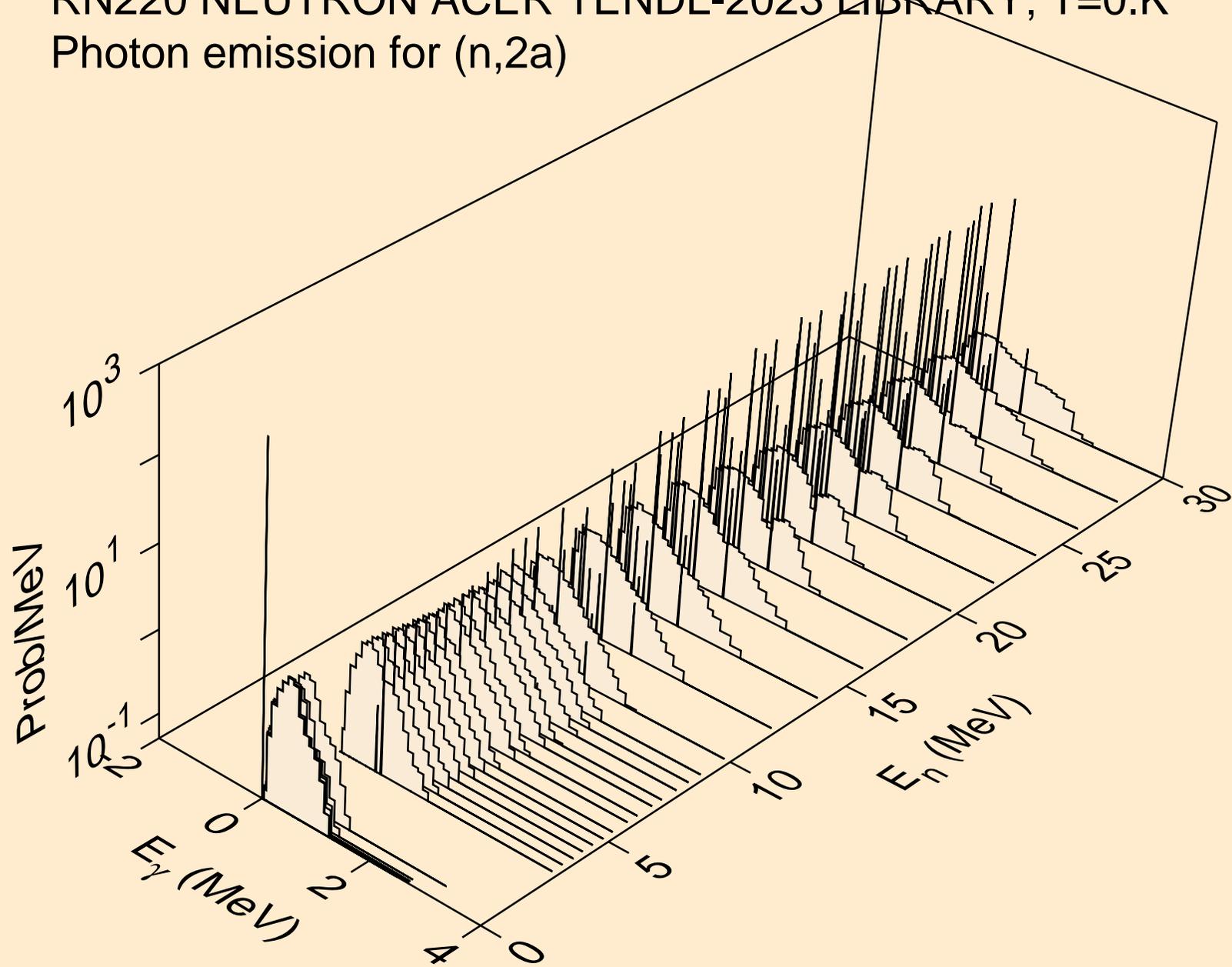
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Photon emission for (n,he3)



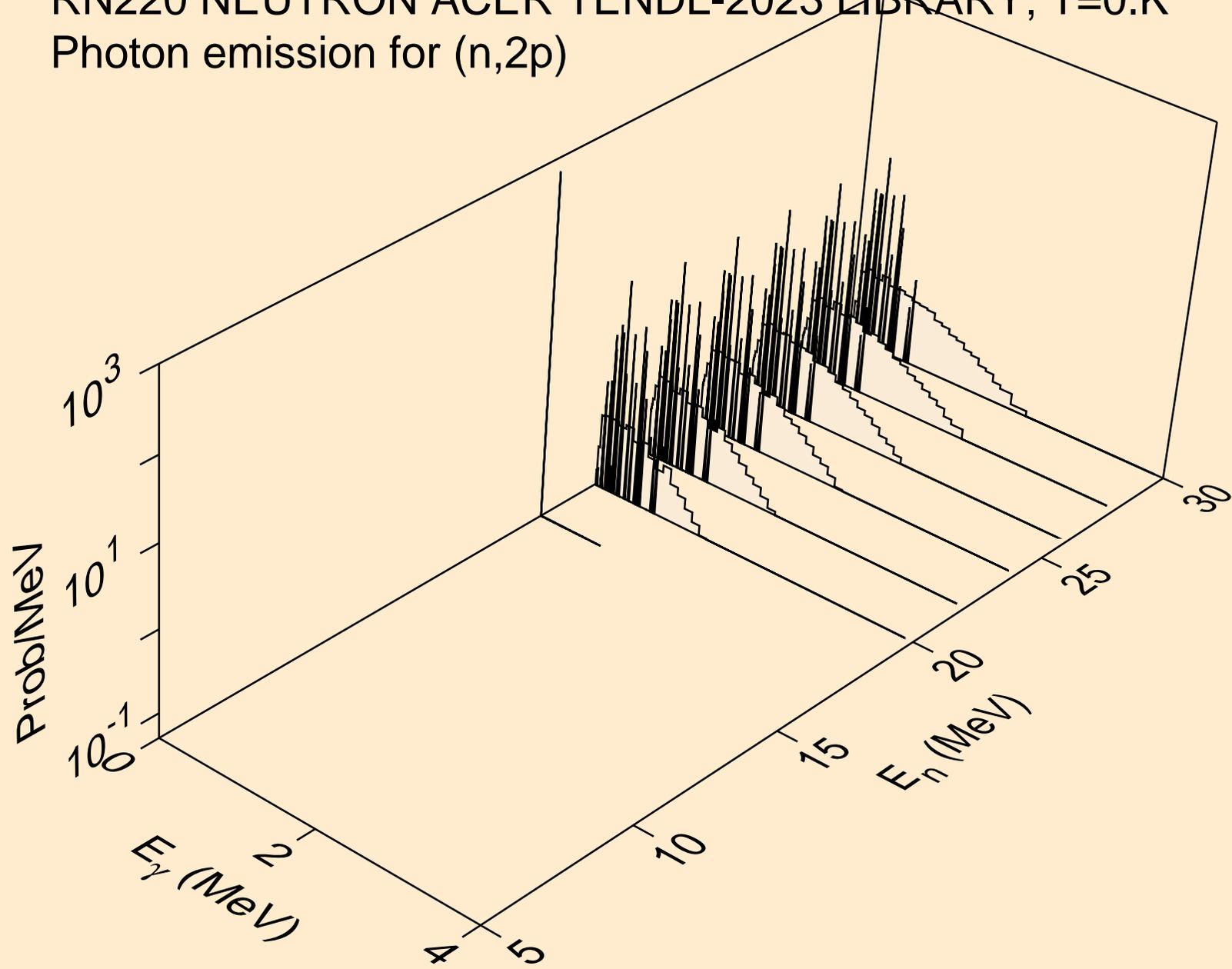
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Photon emission for (n,a)



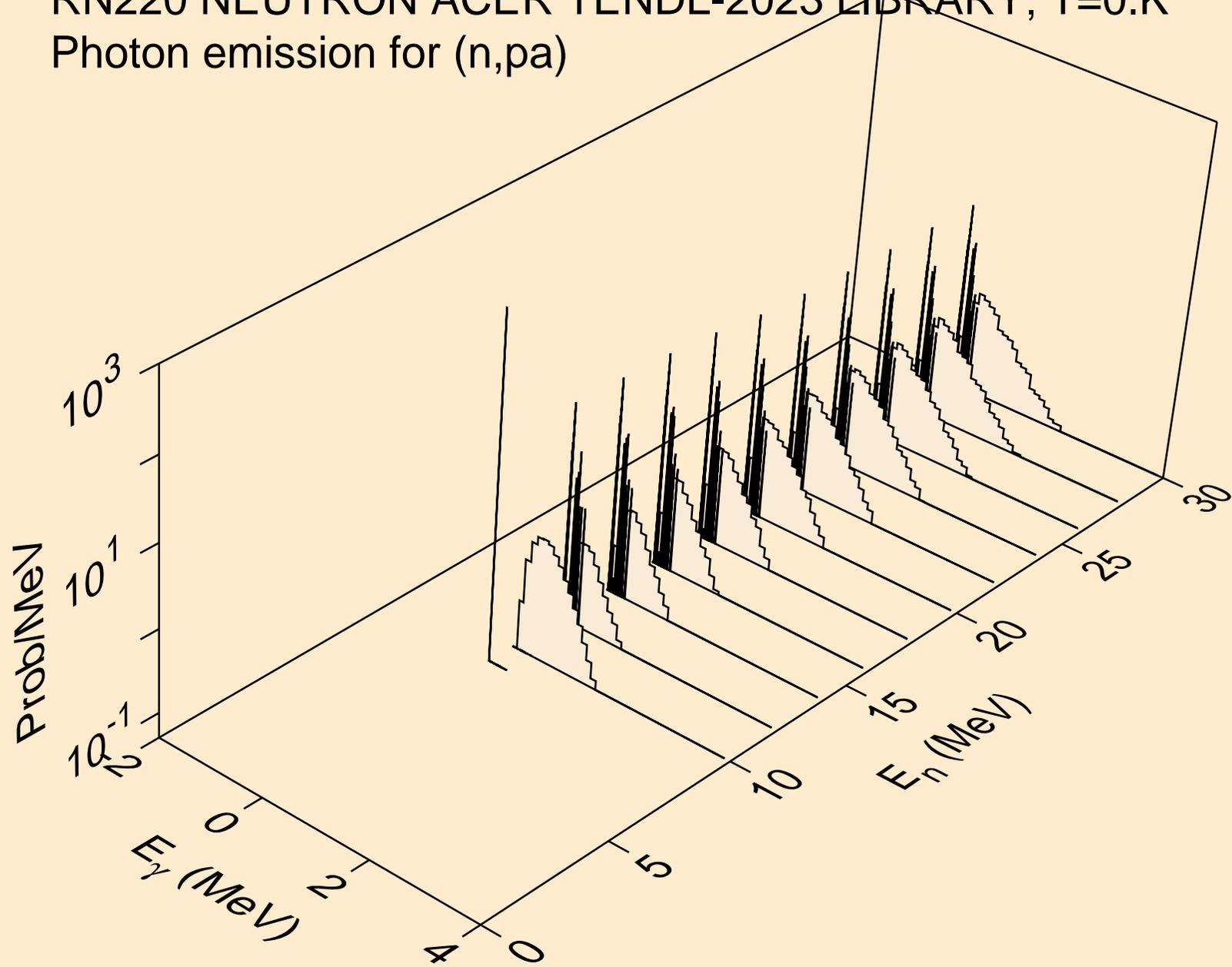
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Photon emission for (n,2a)



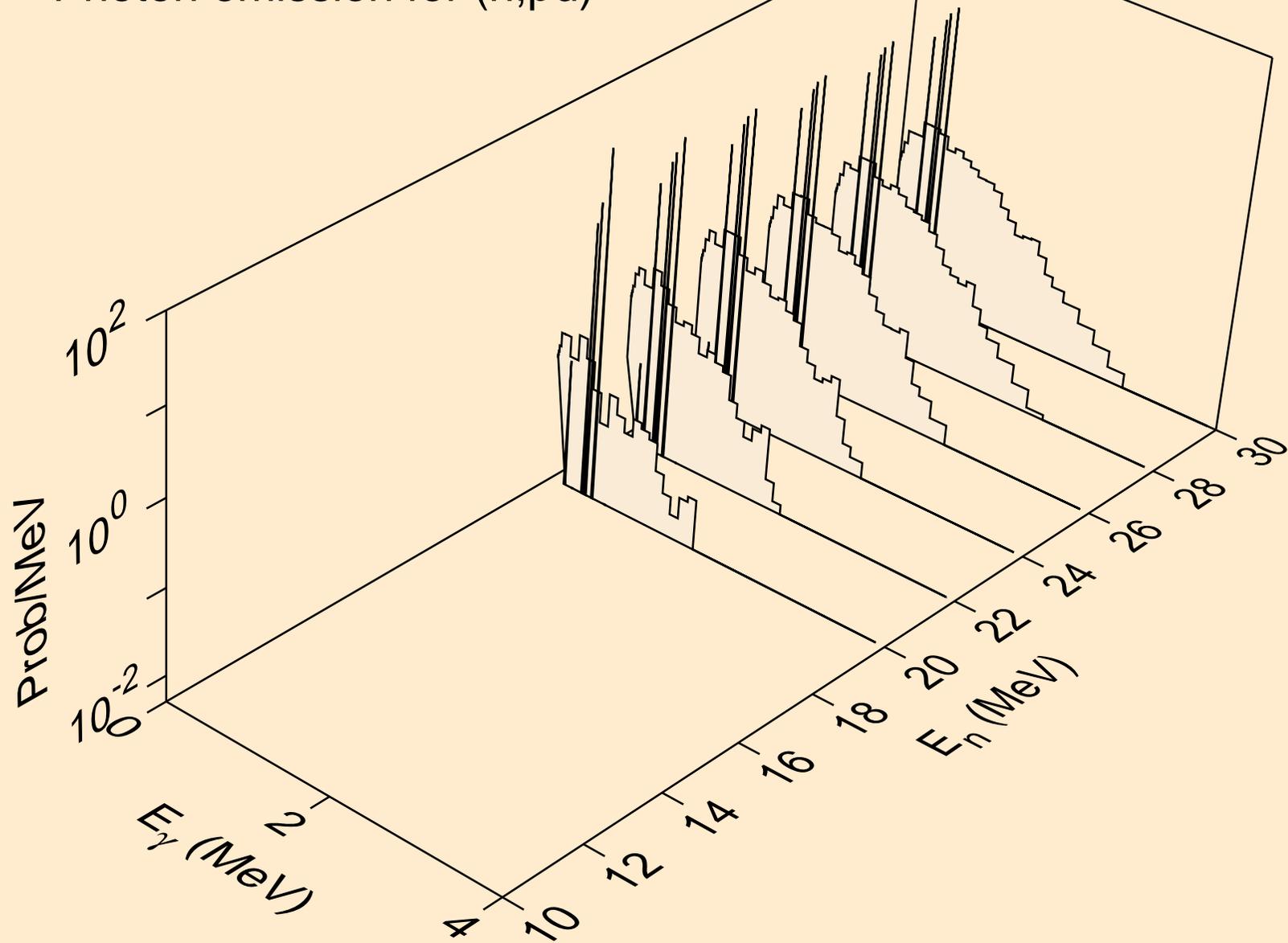
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Photon emission for (n,2p)



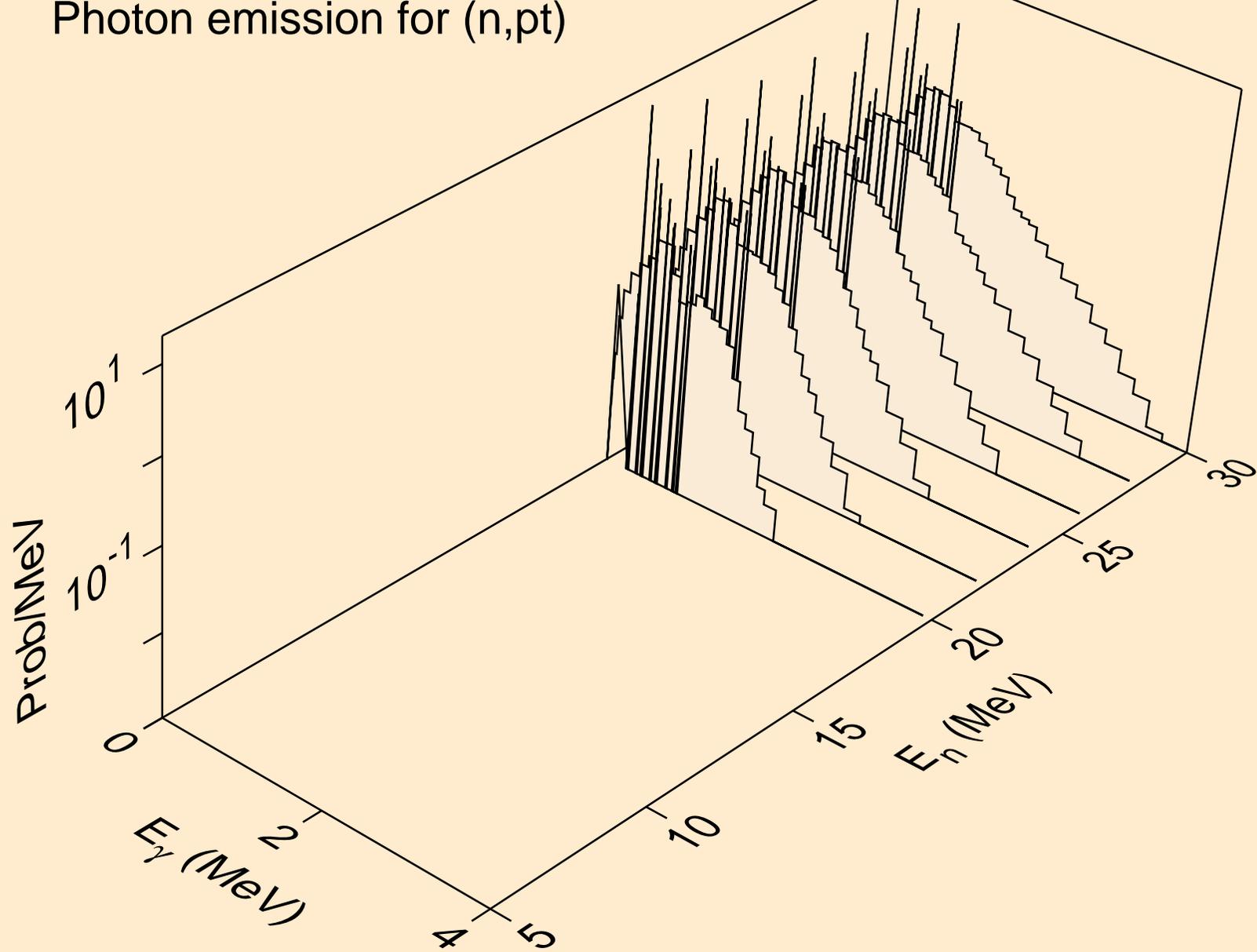
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Photon emission for (n,p $\alpha$ )



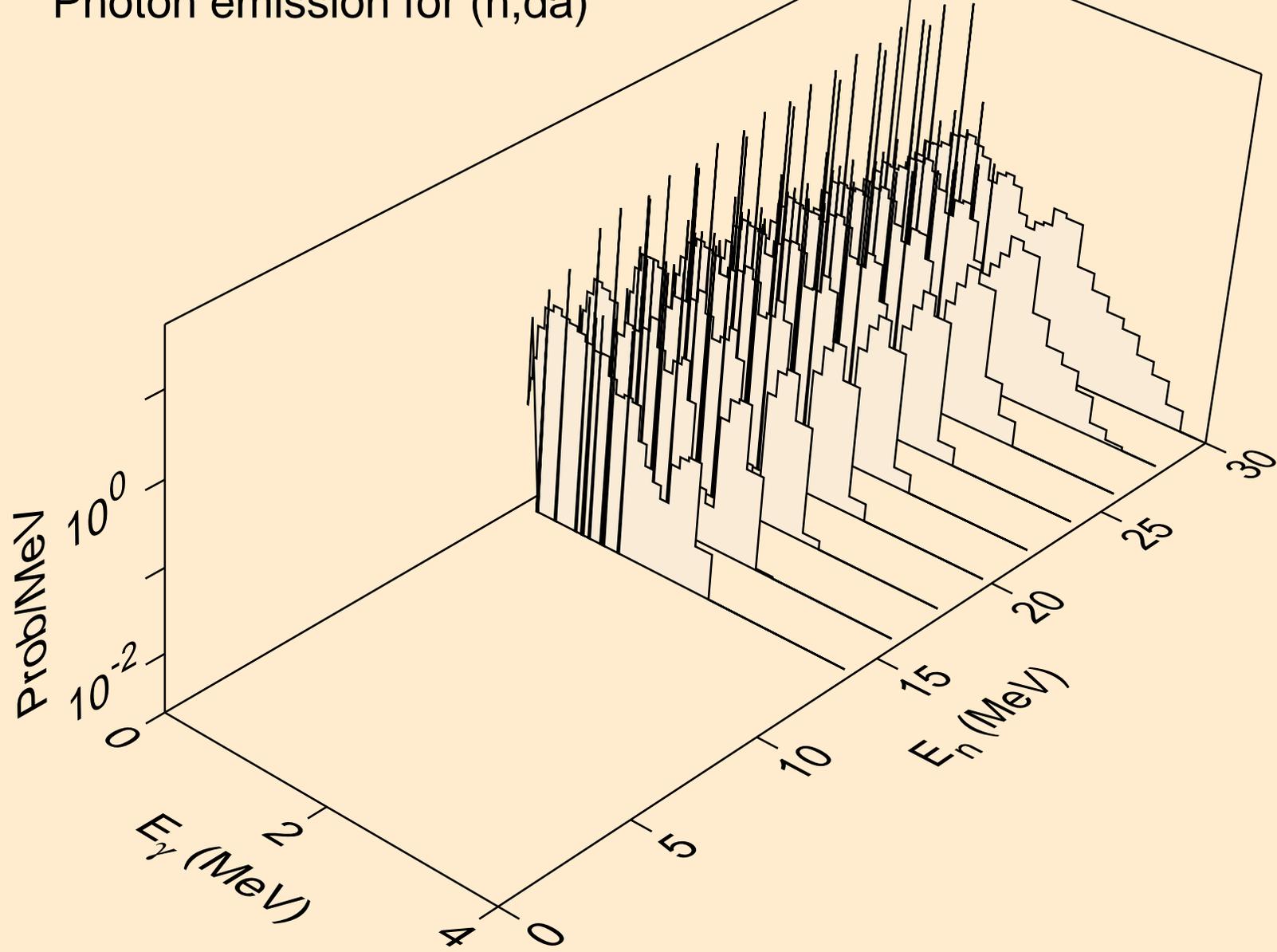
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Photon emission for (n,pd)



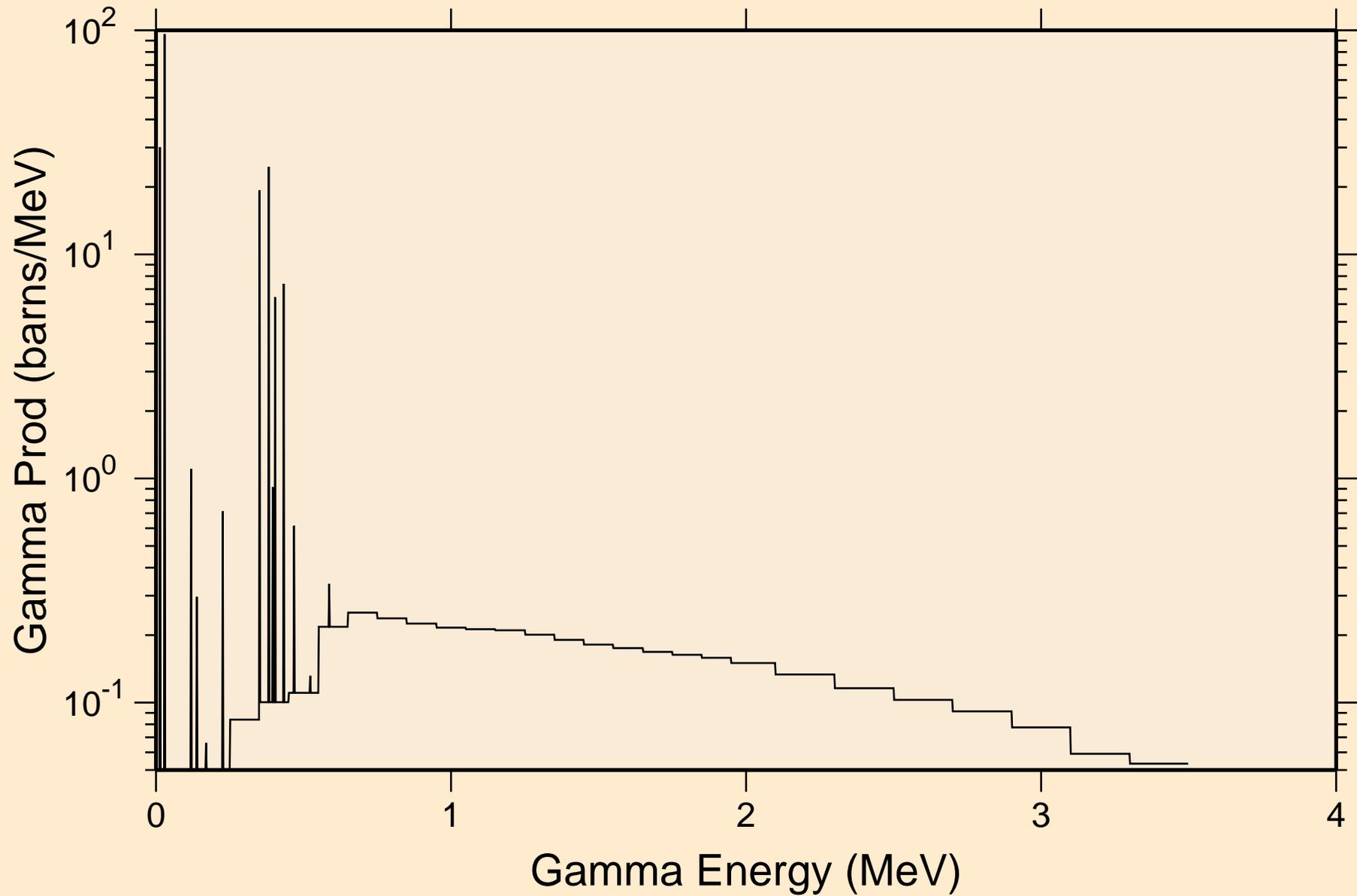
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Photon emission for (n,pt)



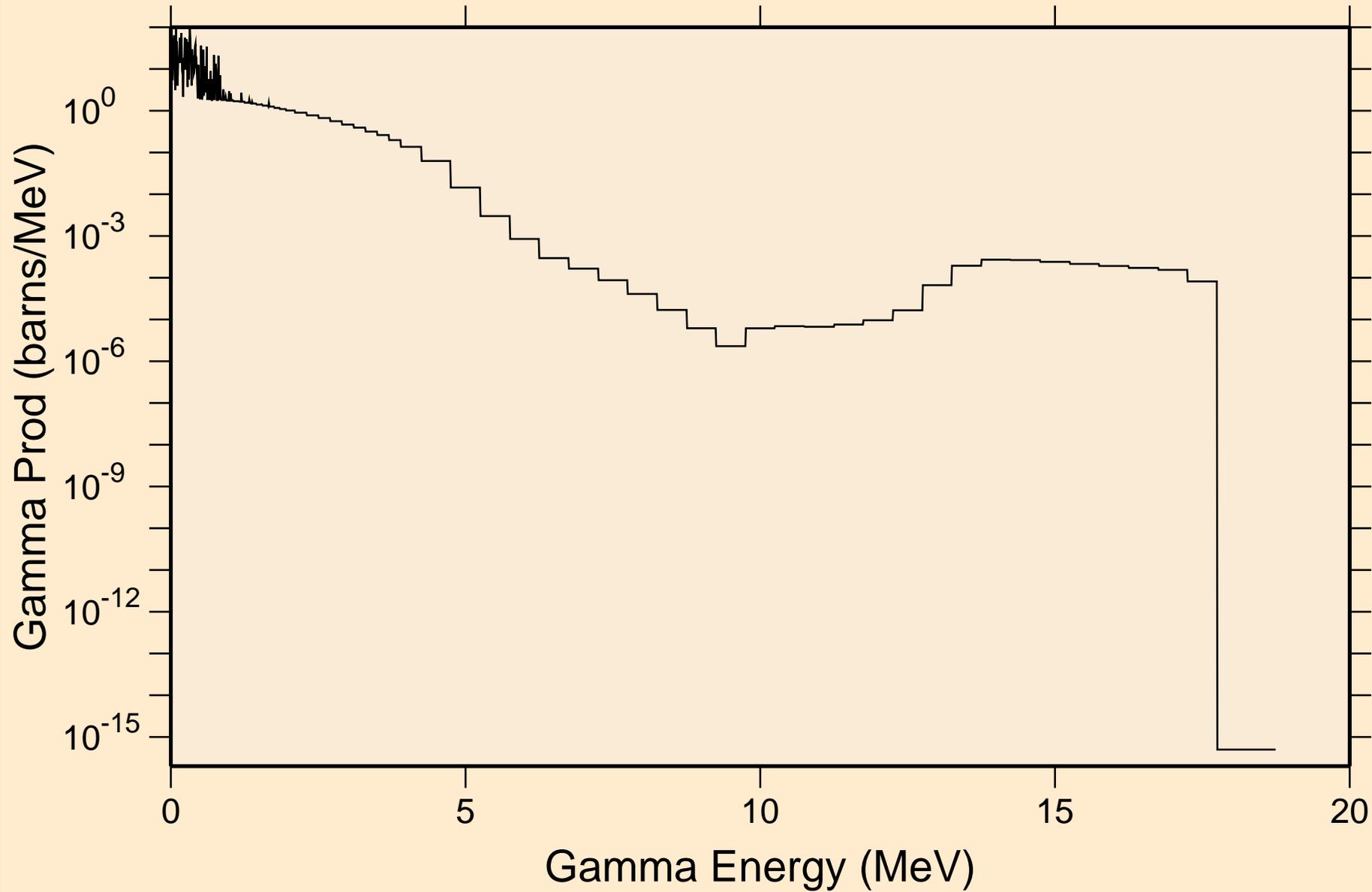
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Photon emission for (n,da)



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thermal capture photon spectrum

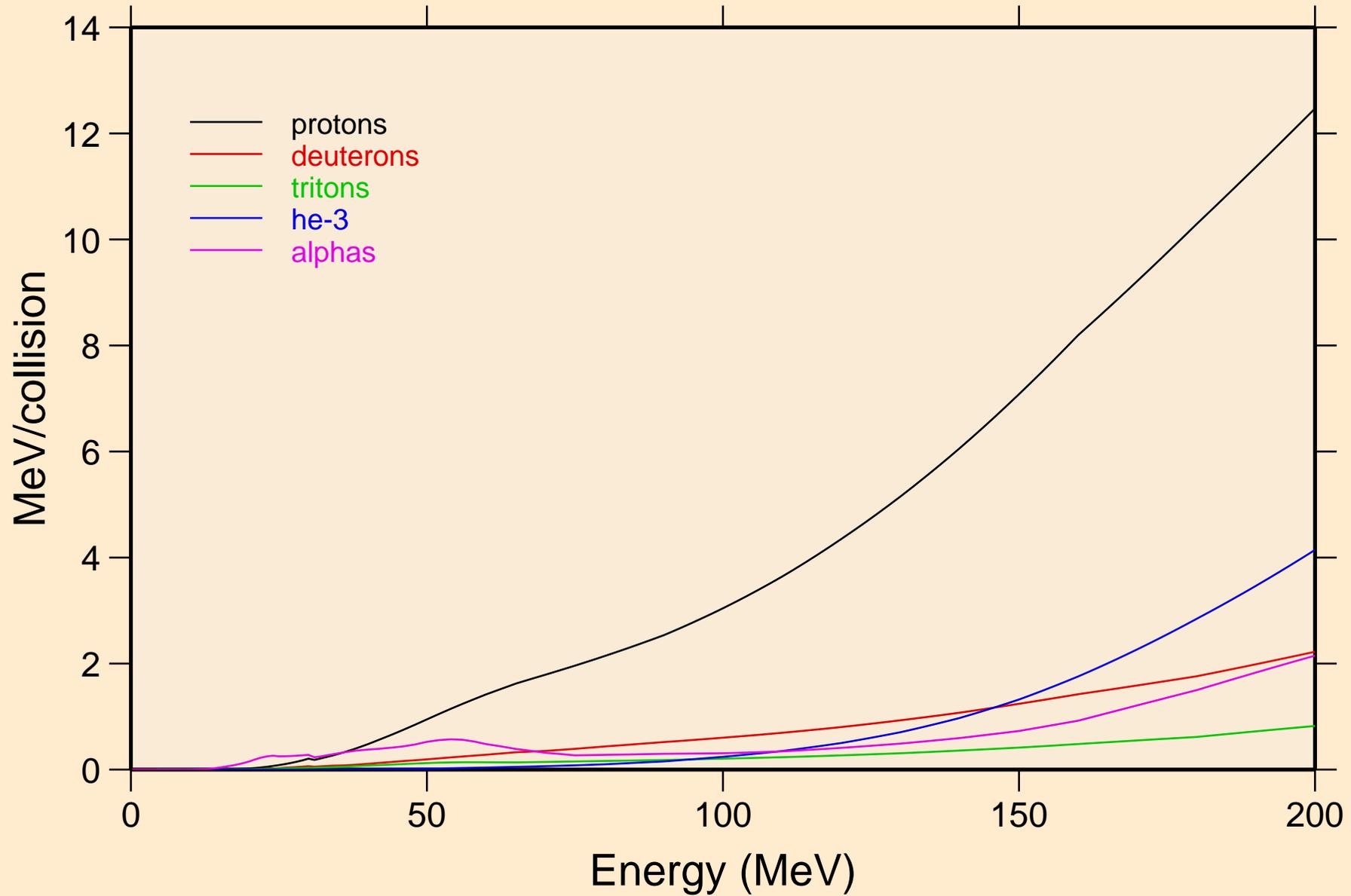


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14 MeV photon spectrum

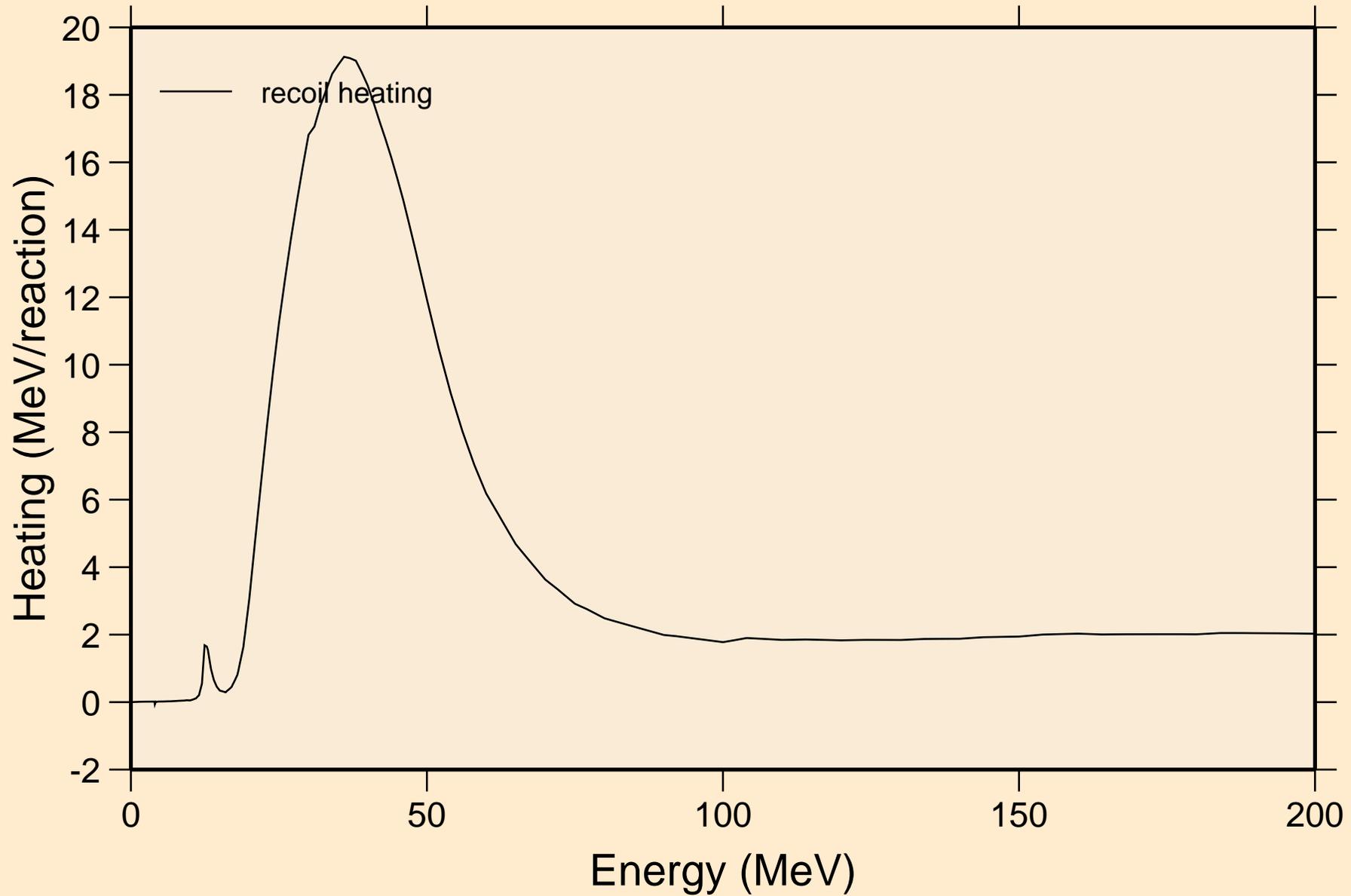


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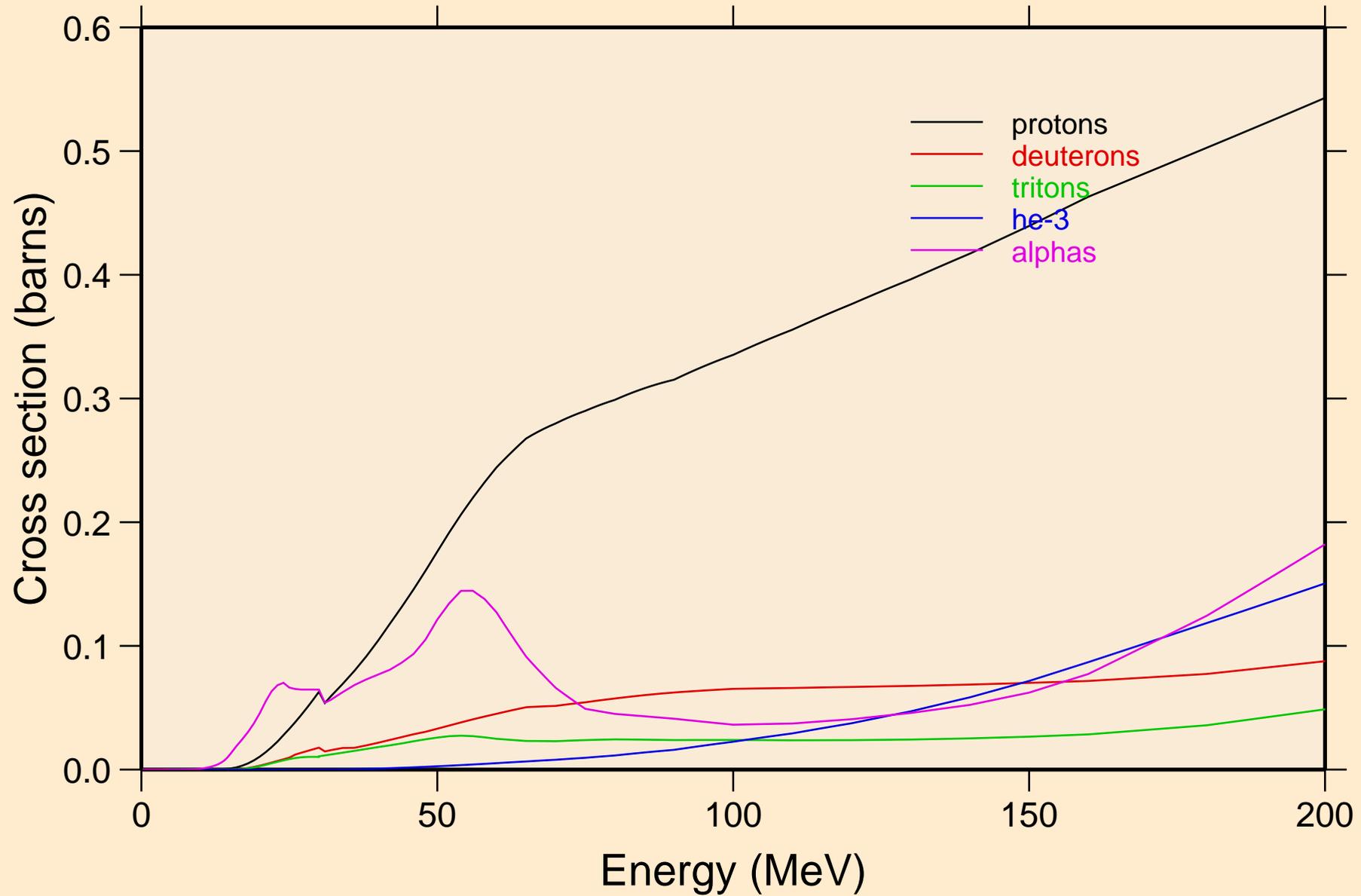
## Particle heating contributions



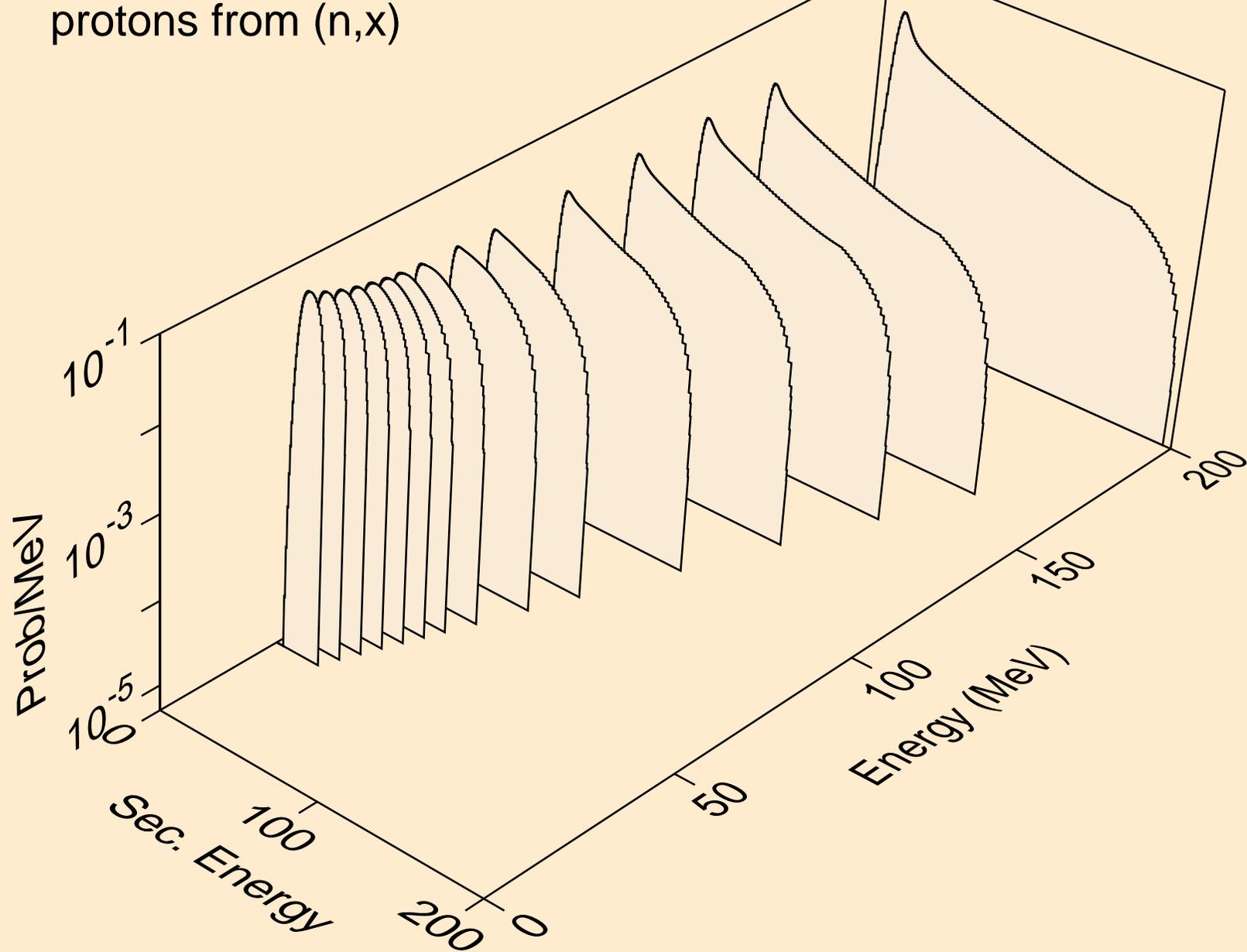
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Recoil Heating



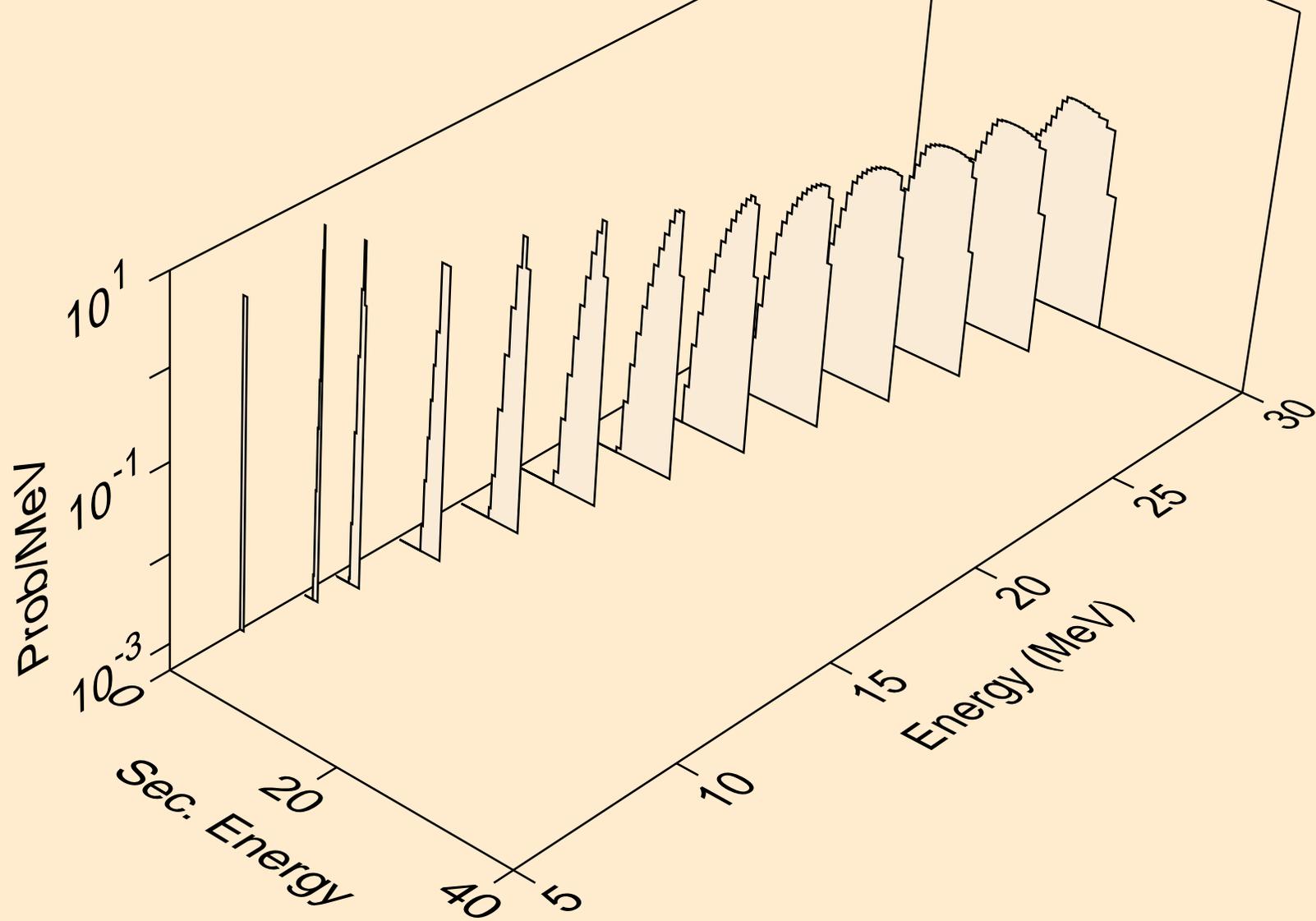
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Particle production cross sections



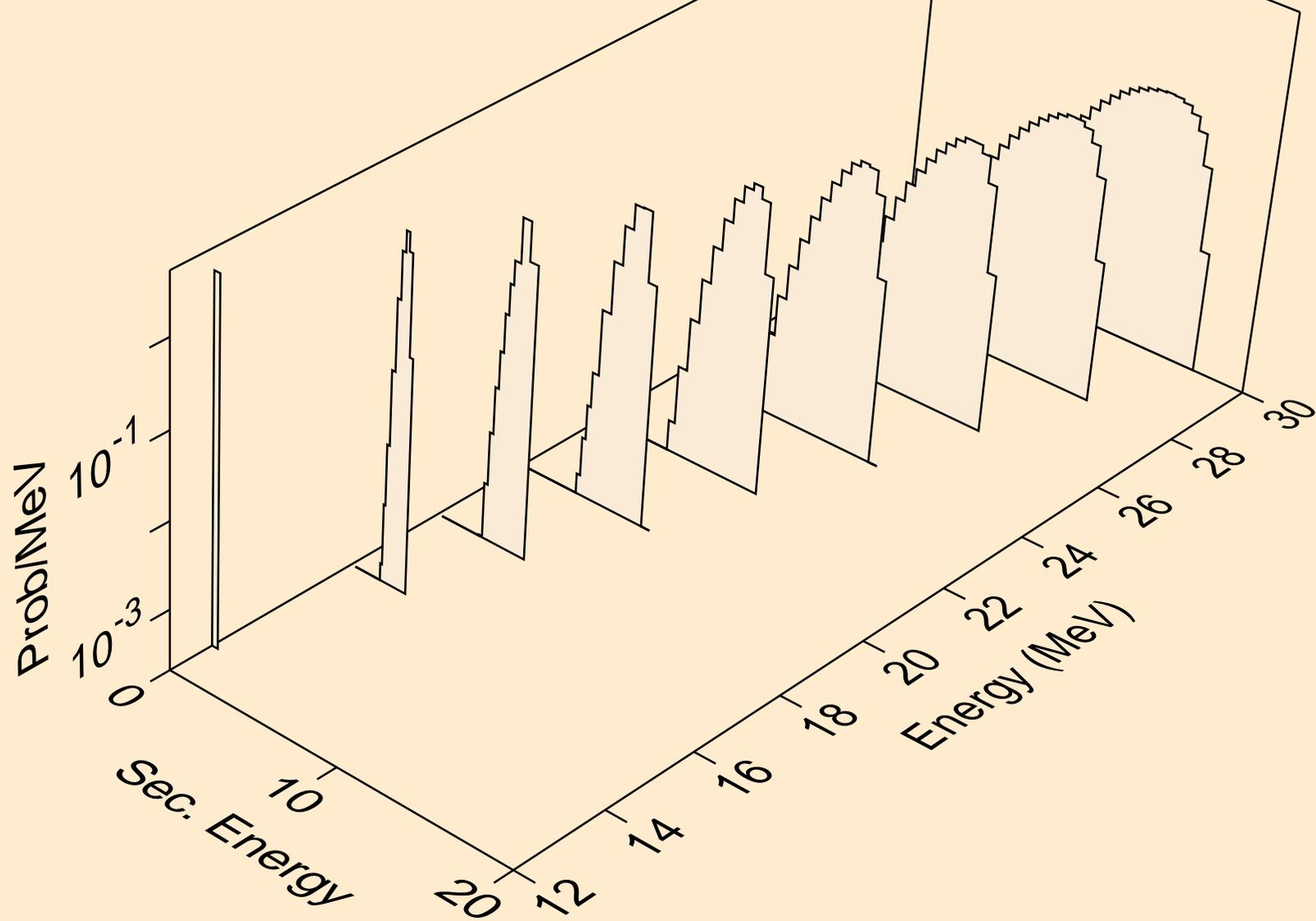
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protons from (n,x)



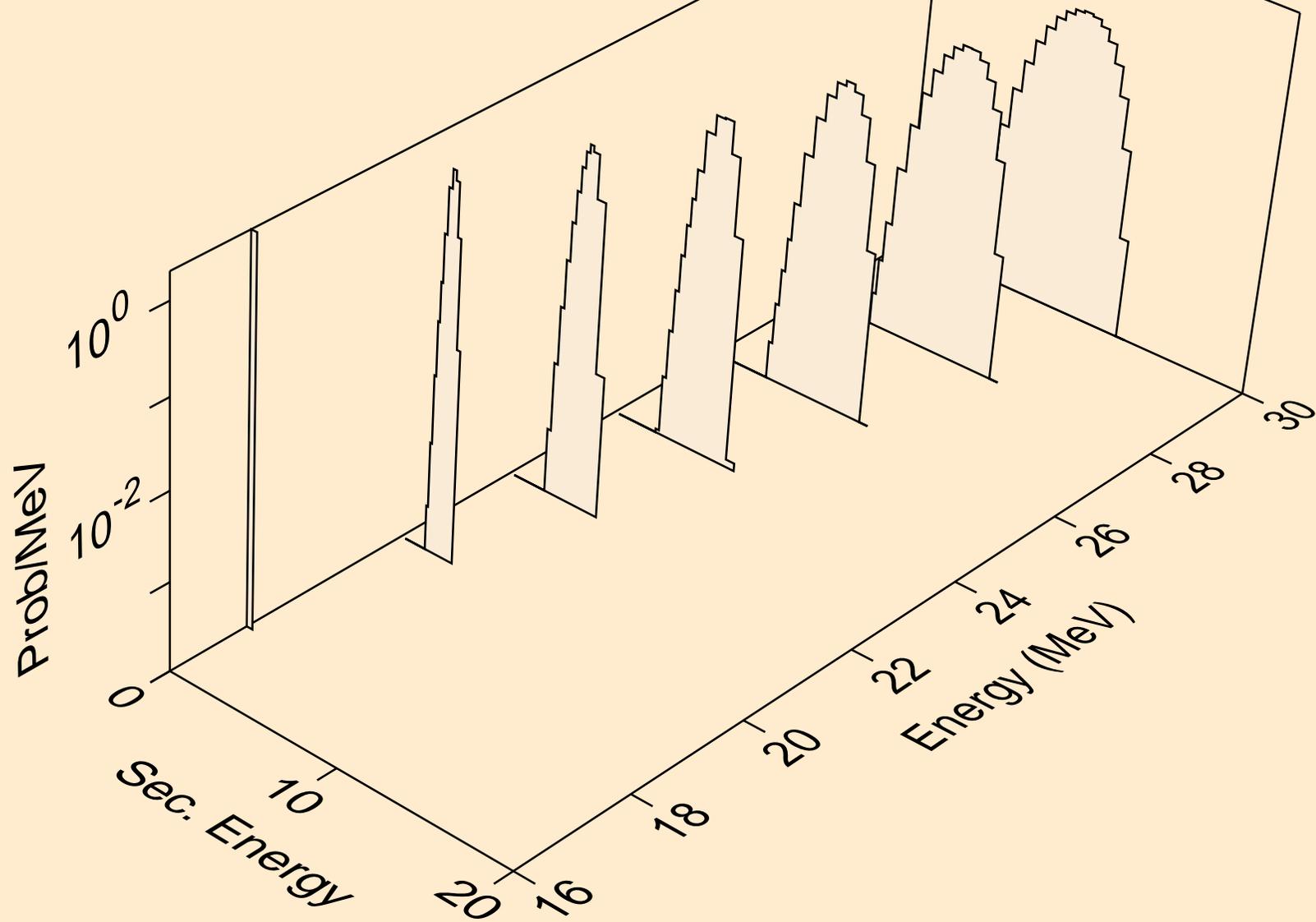
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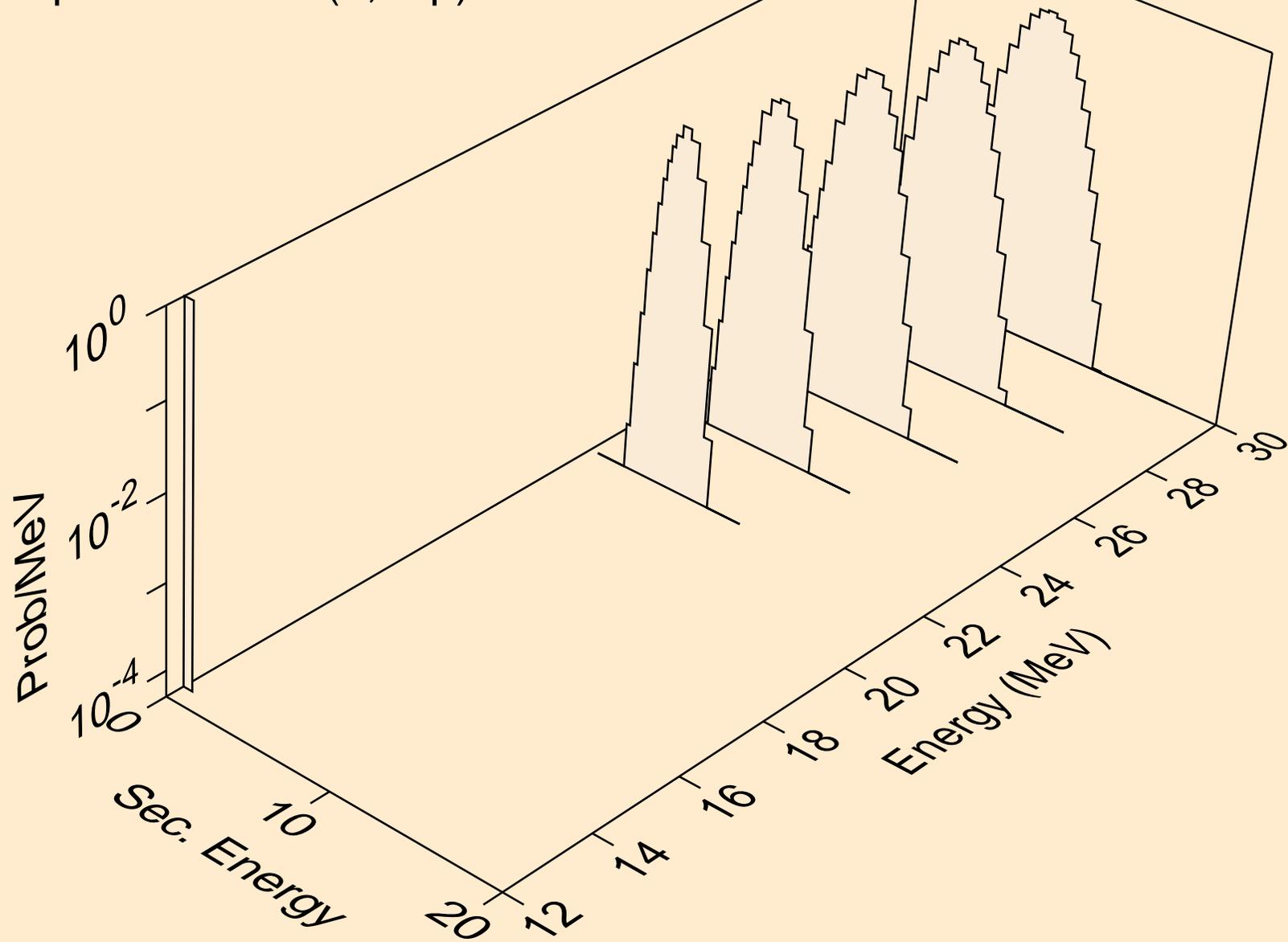
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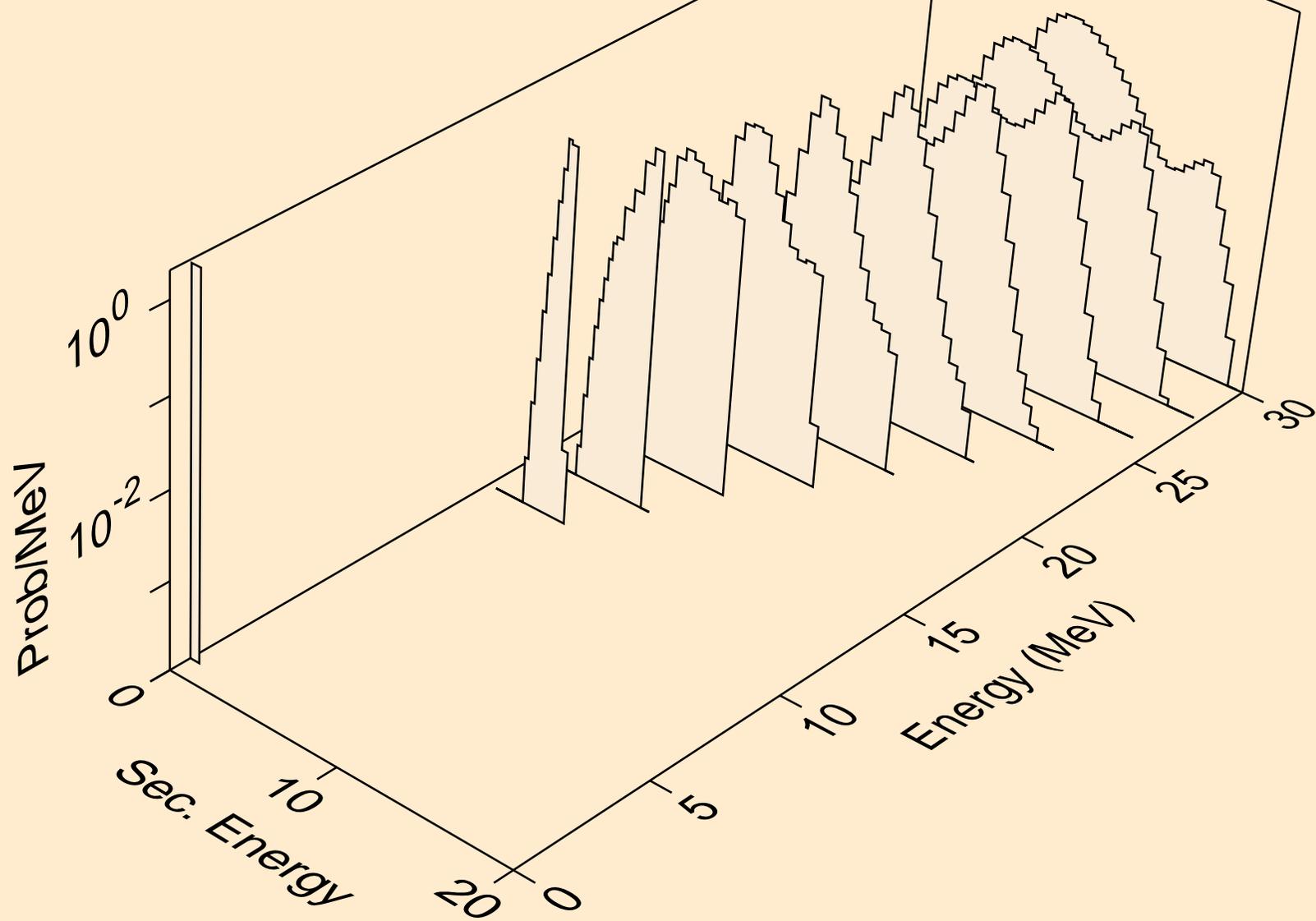
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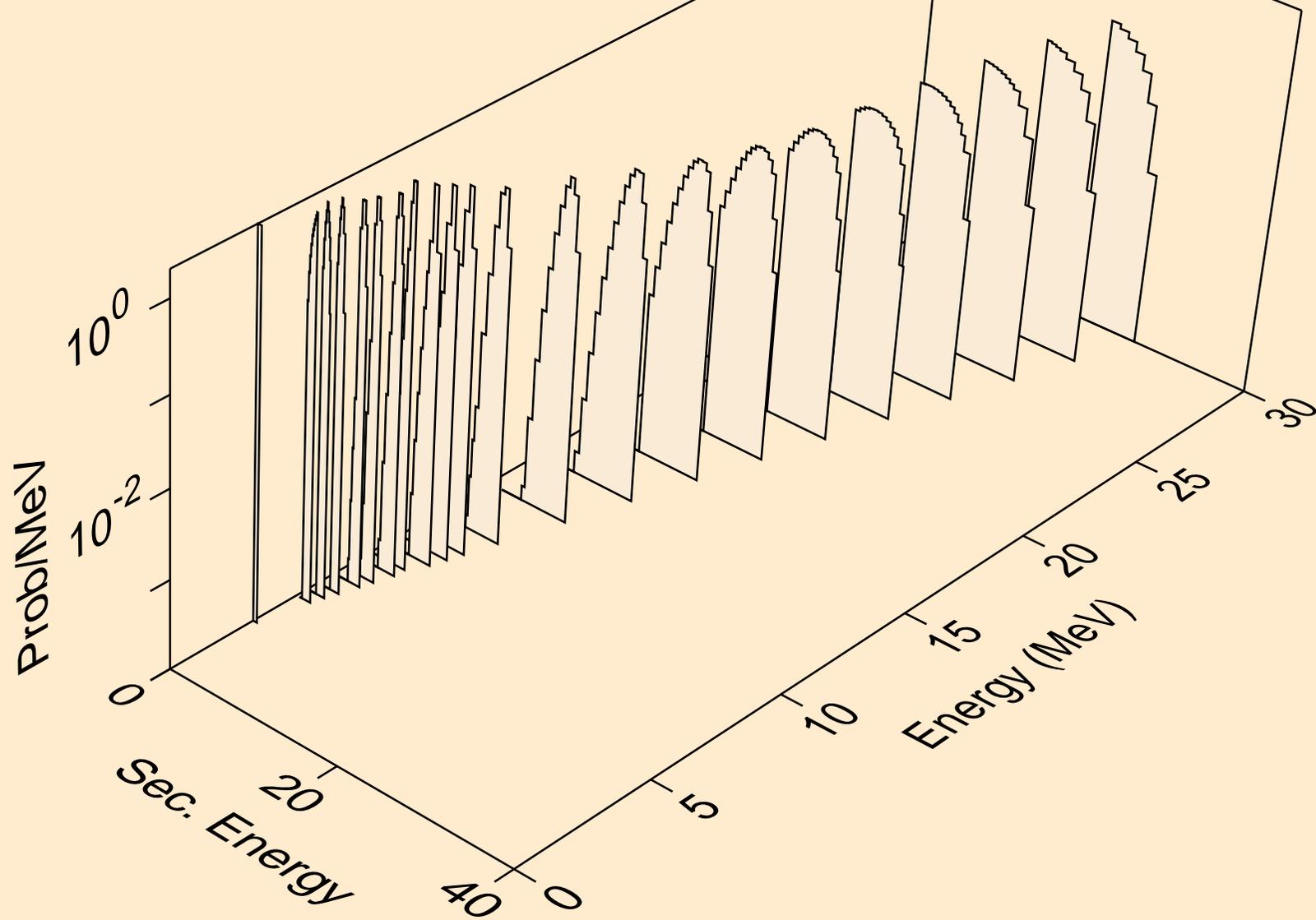
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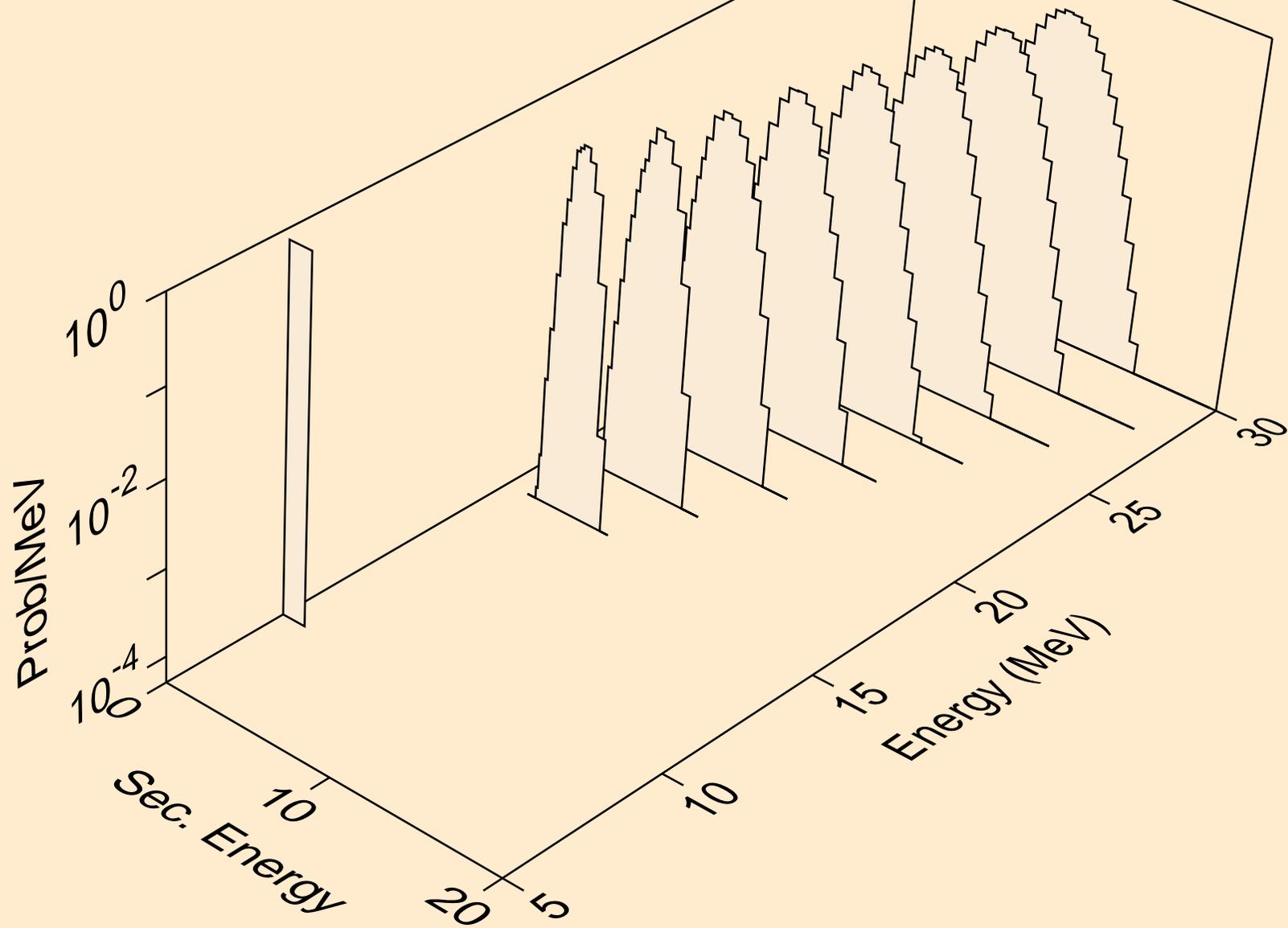
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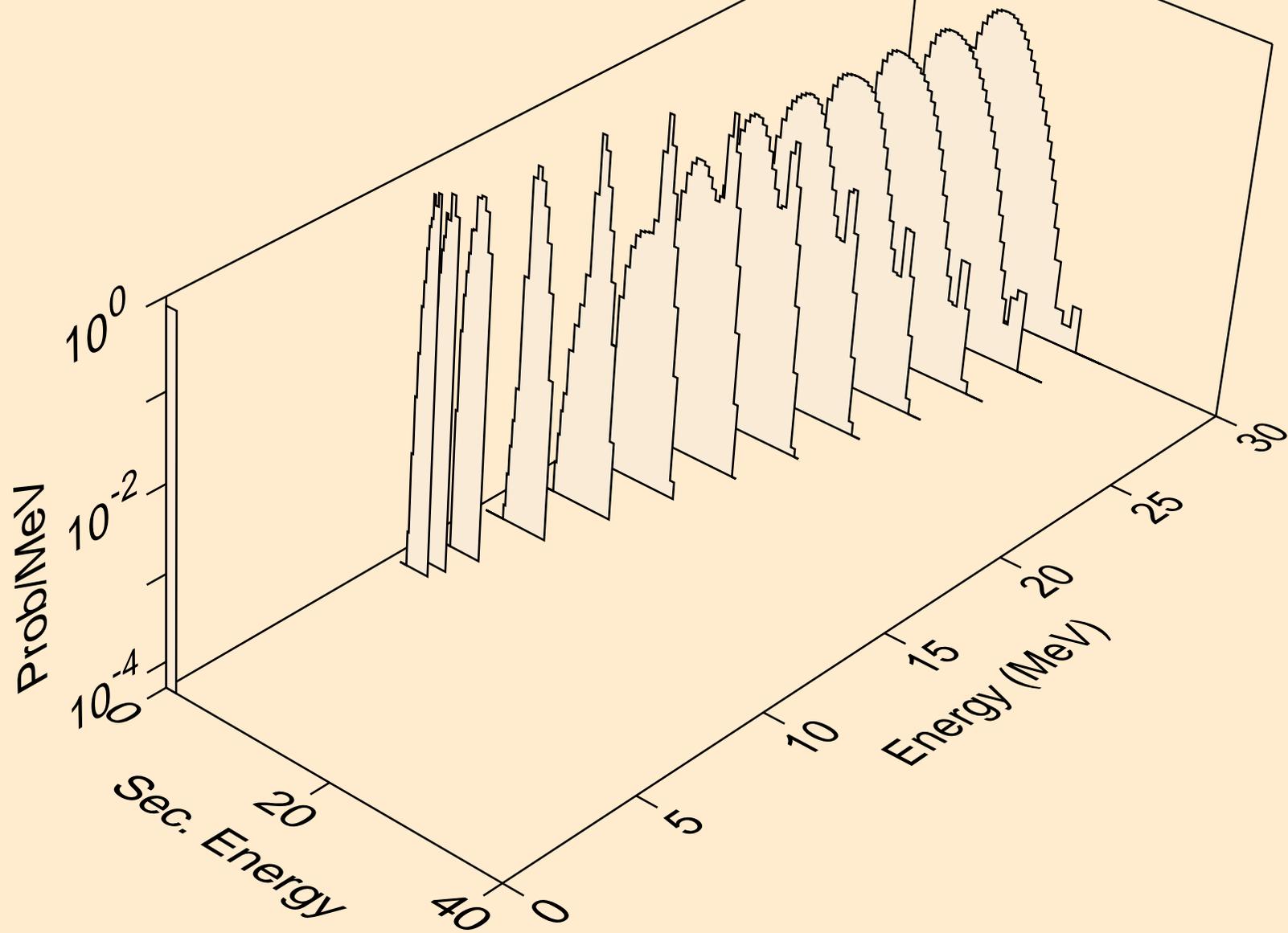
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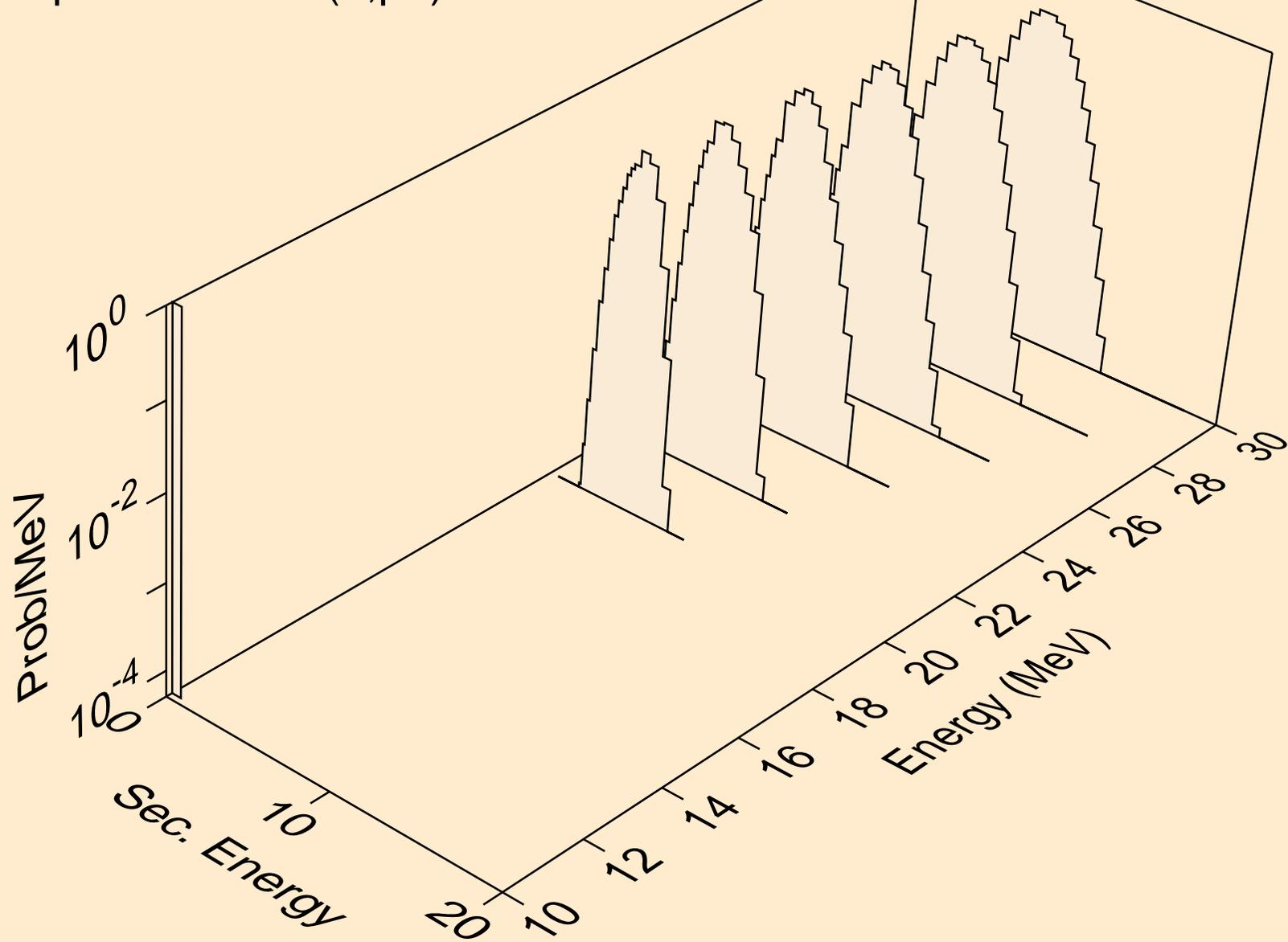
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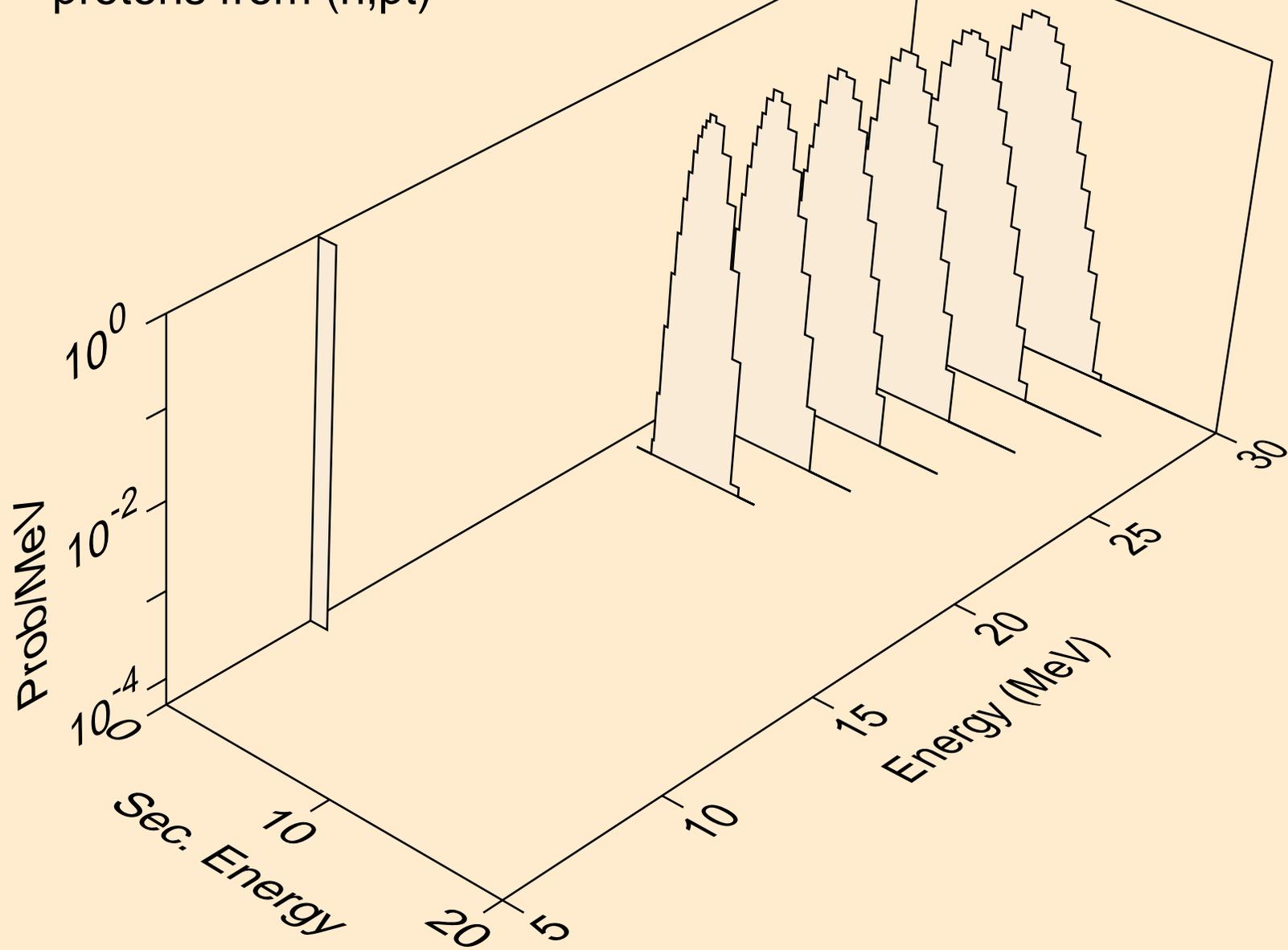
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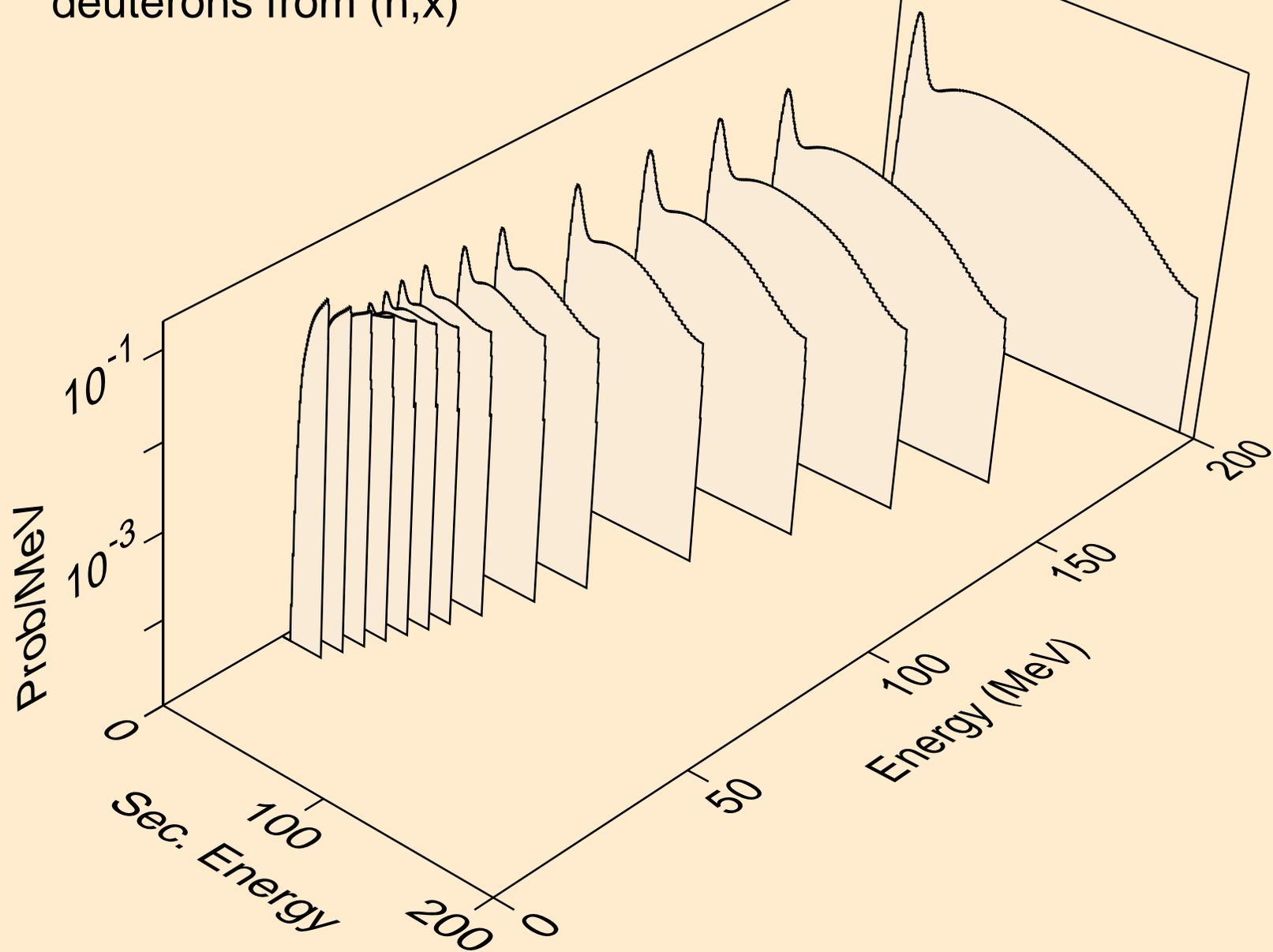
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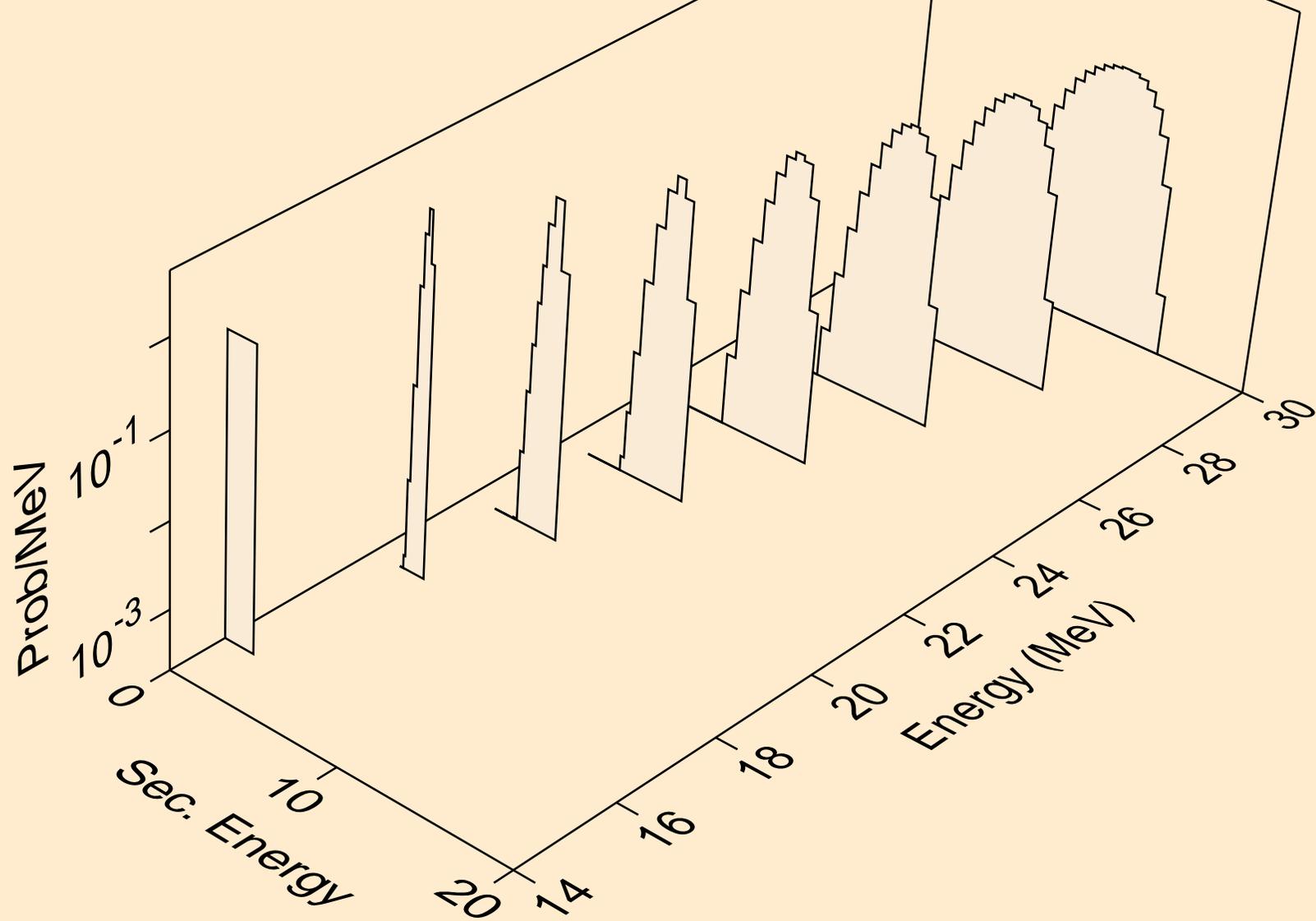
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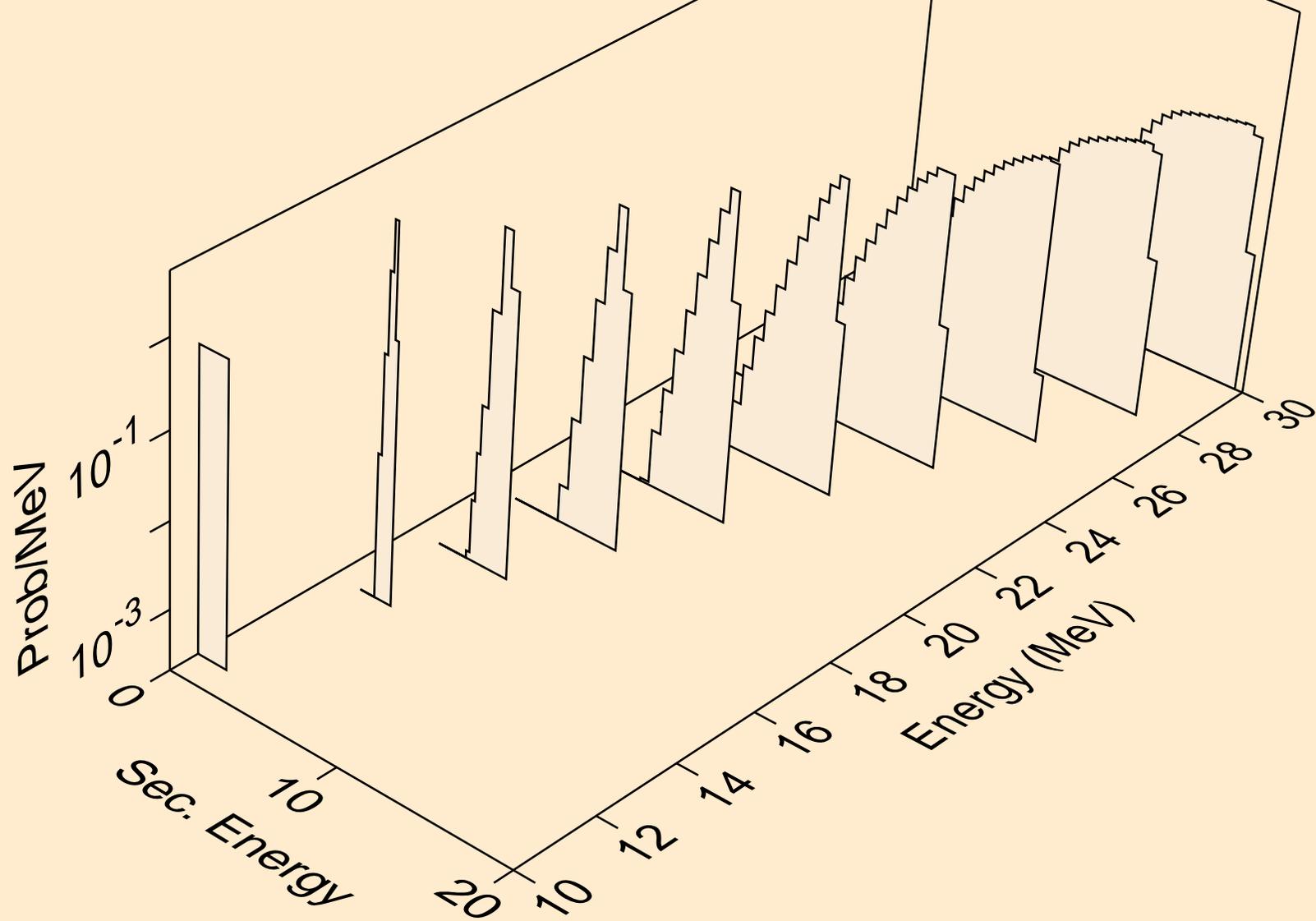
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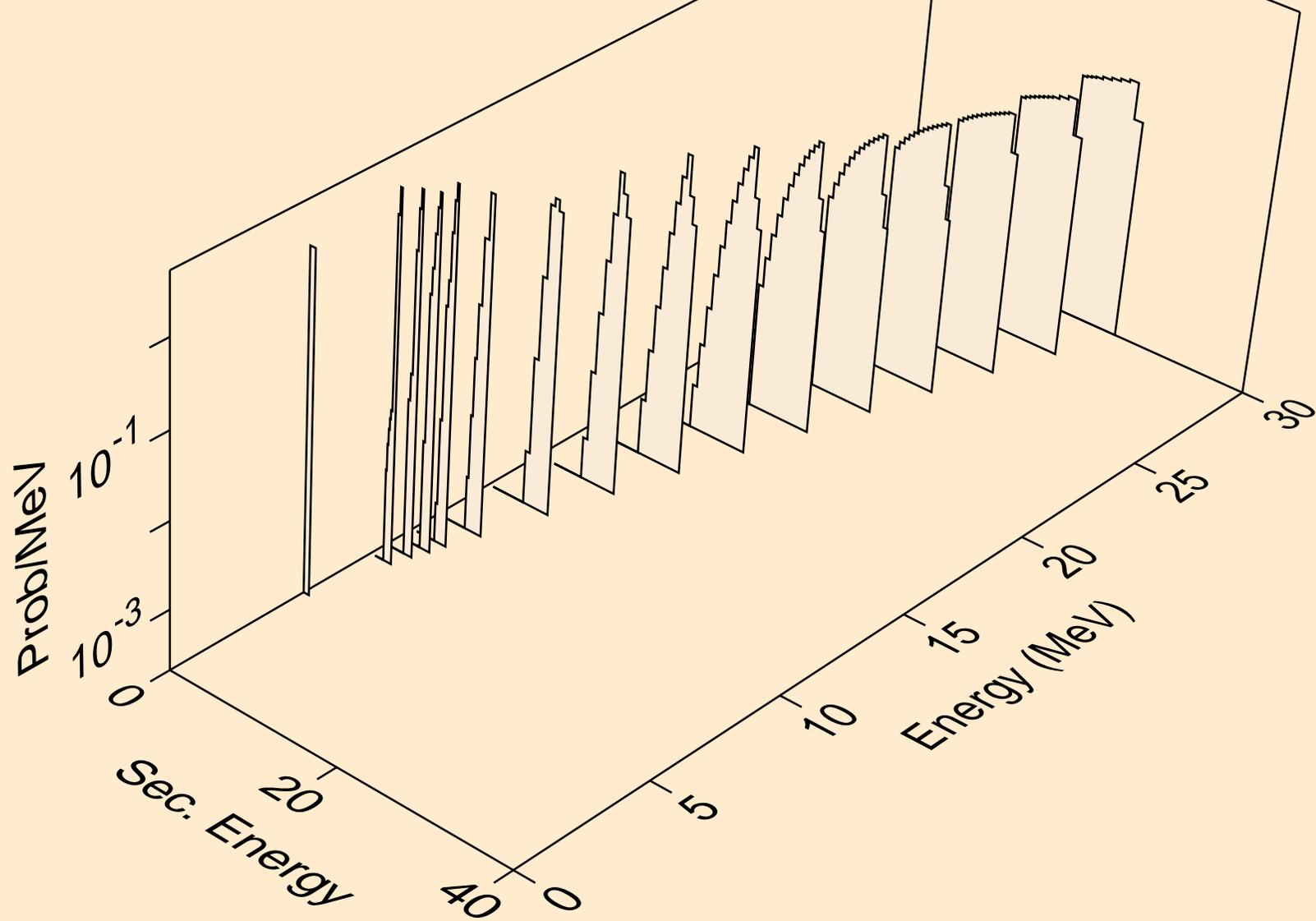
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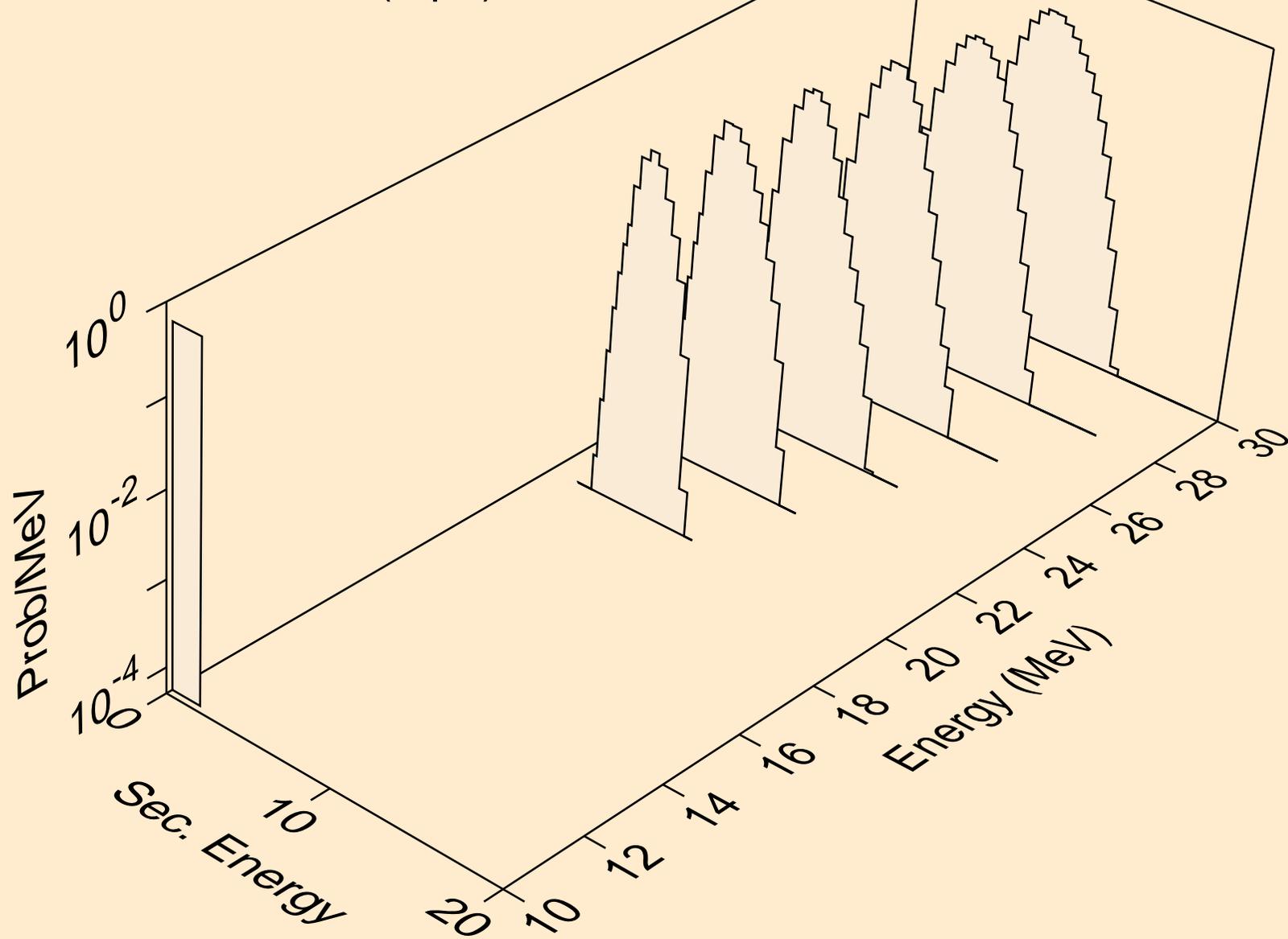
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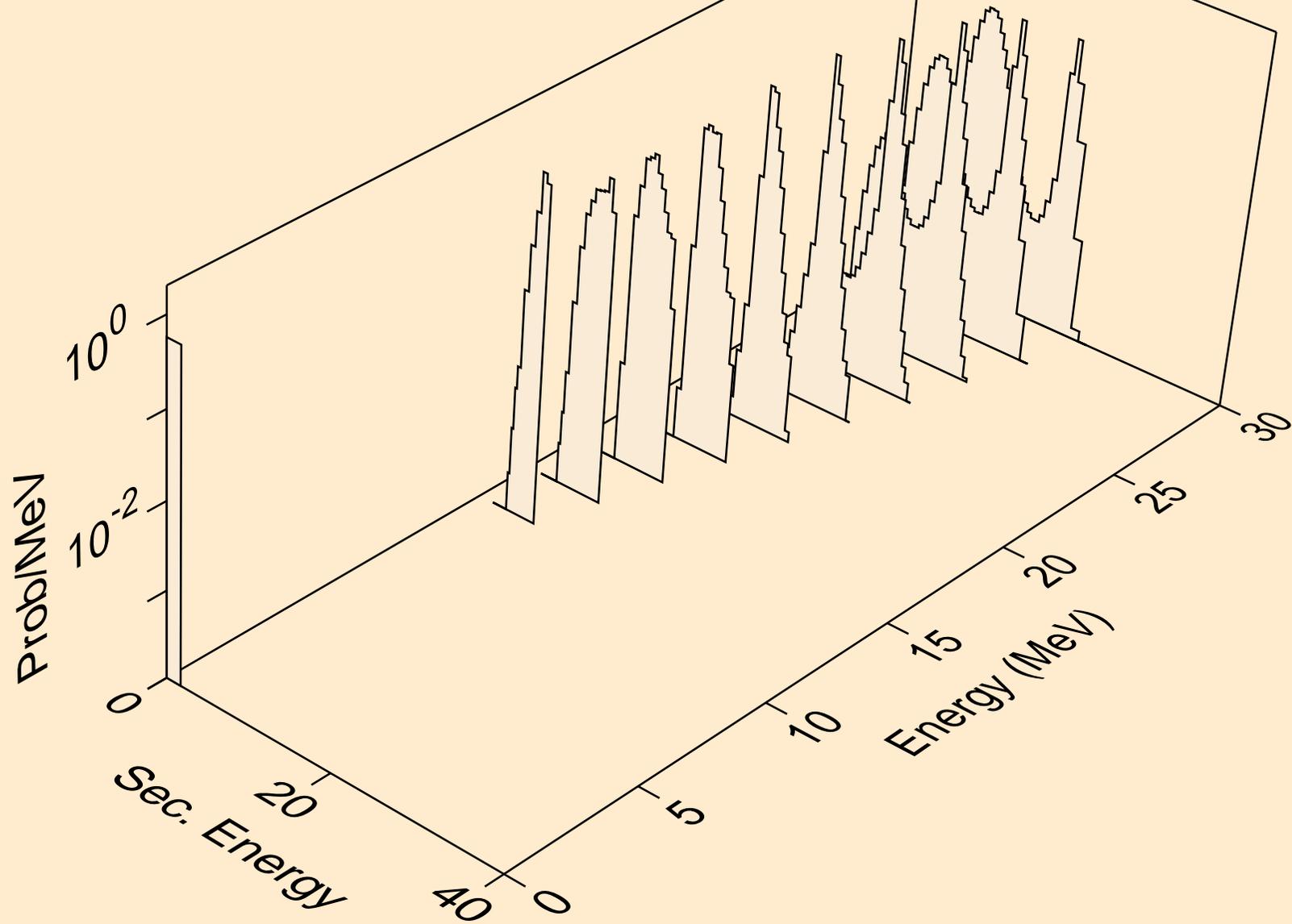
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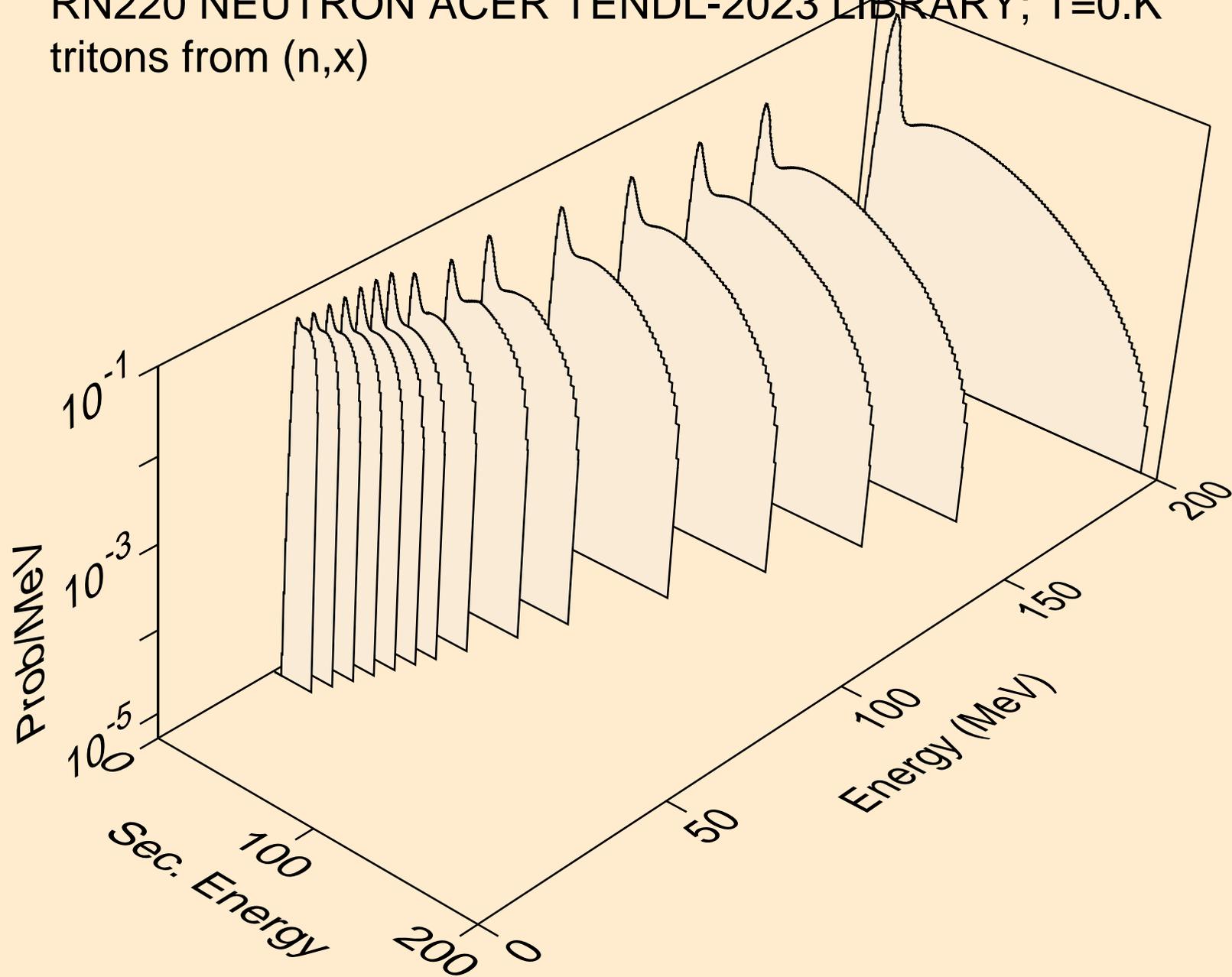
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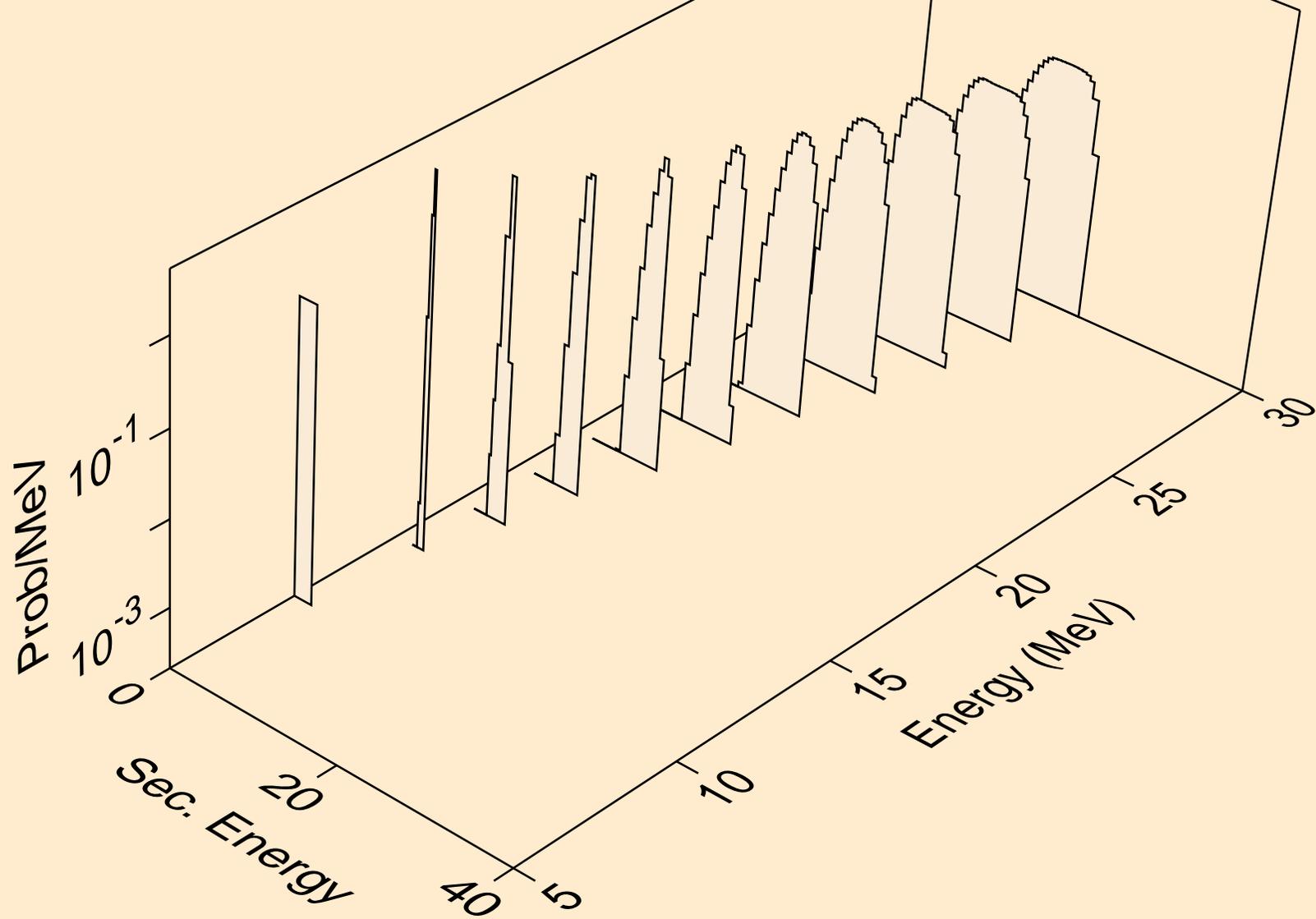
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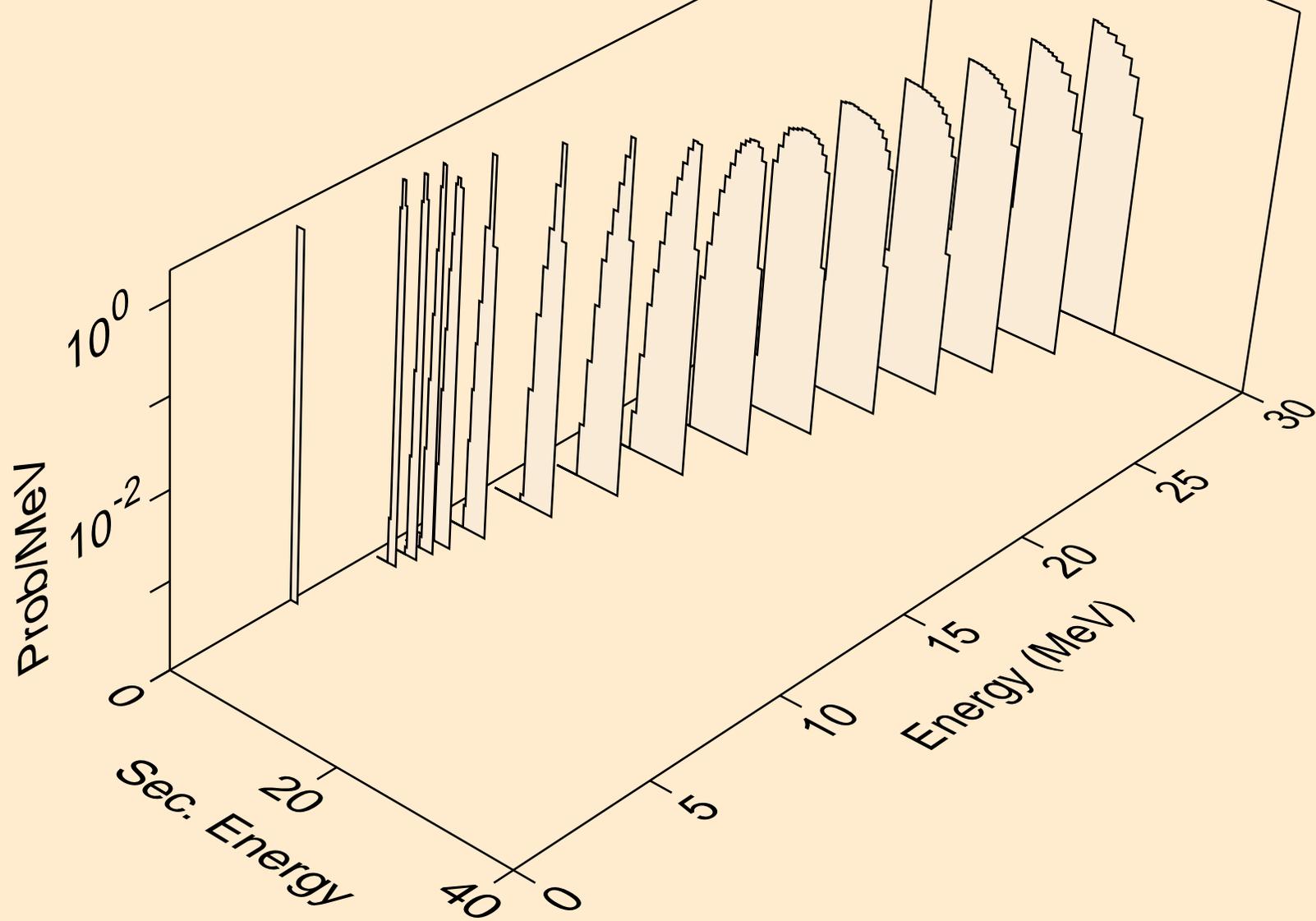
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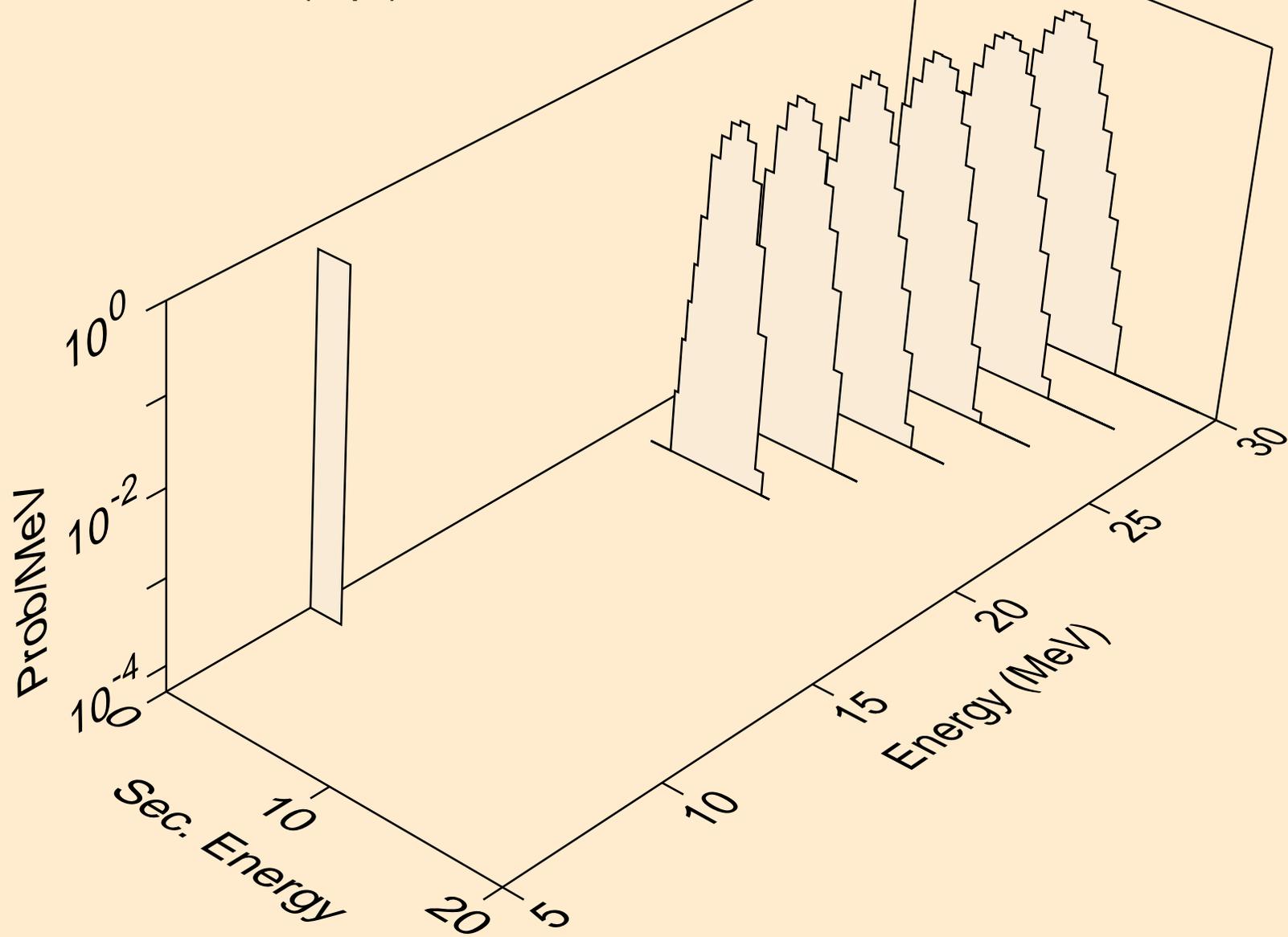
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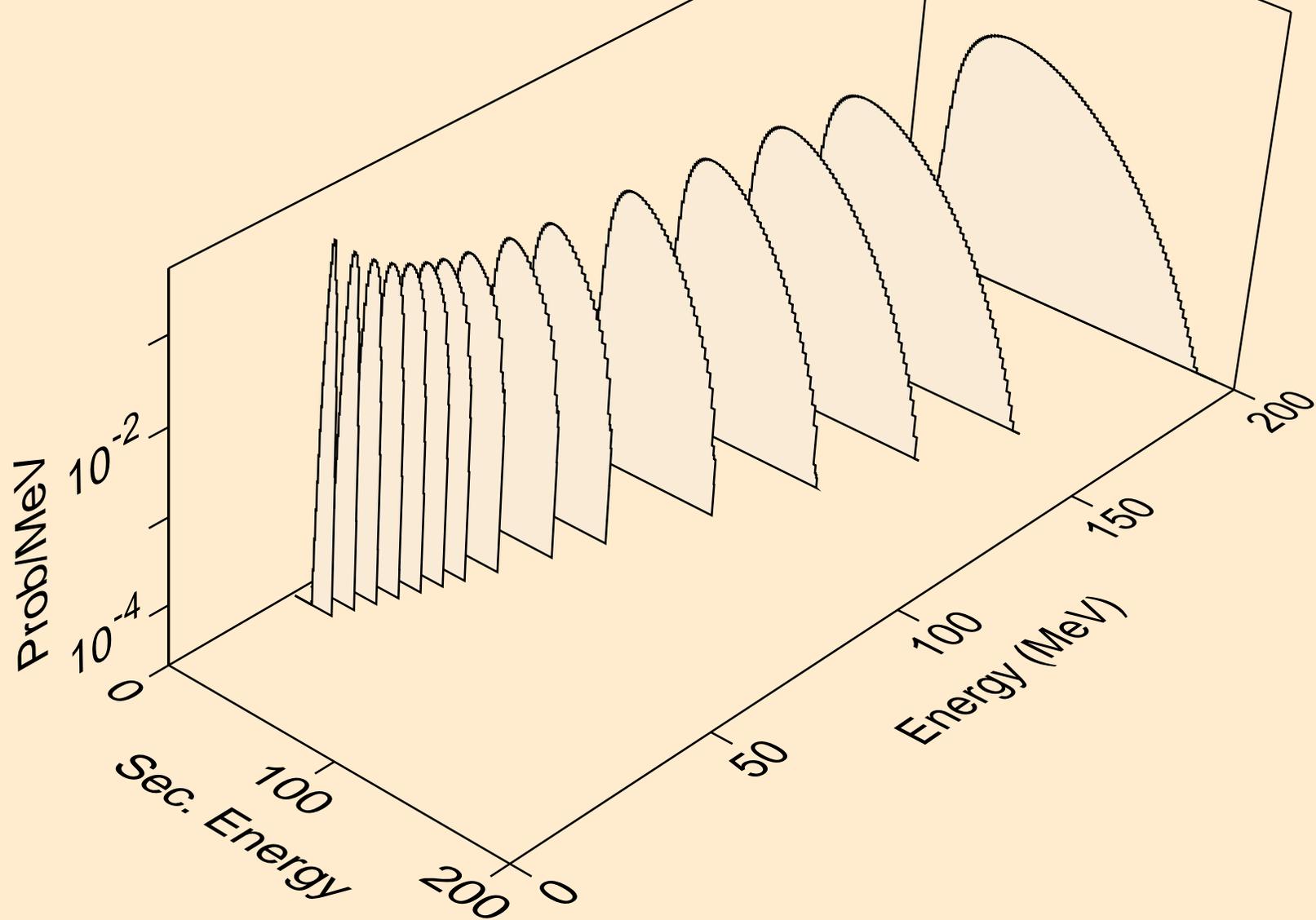
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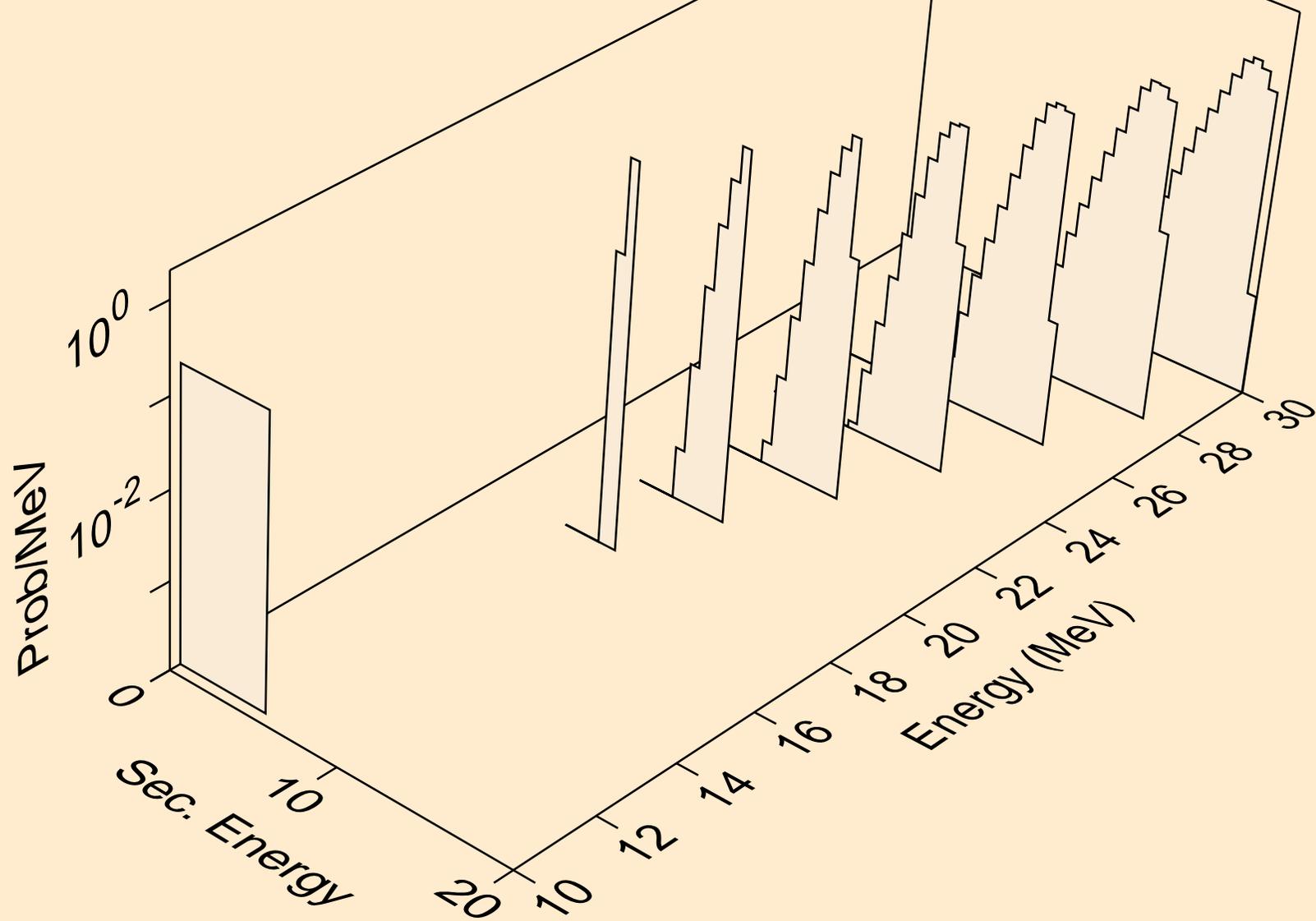
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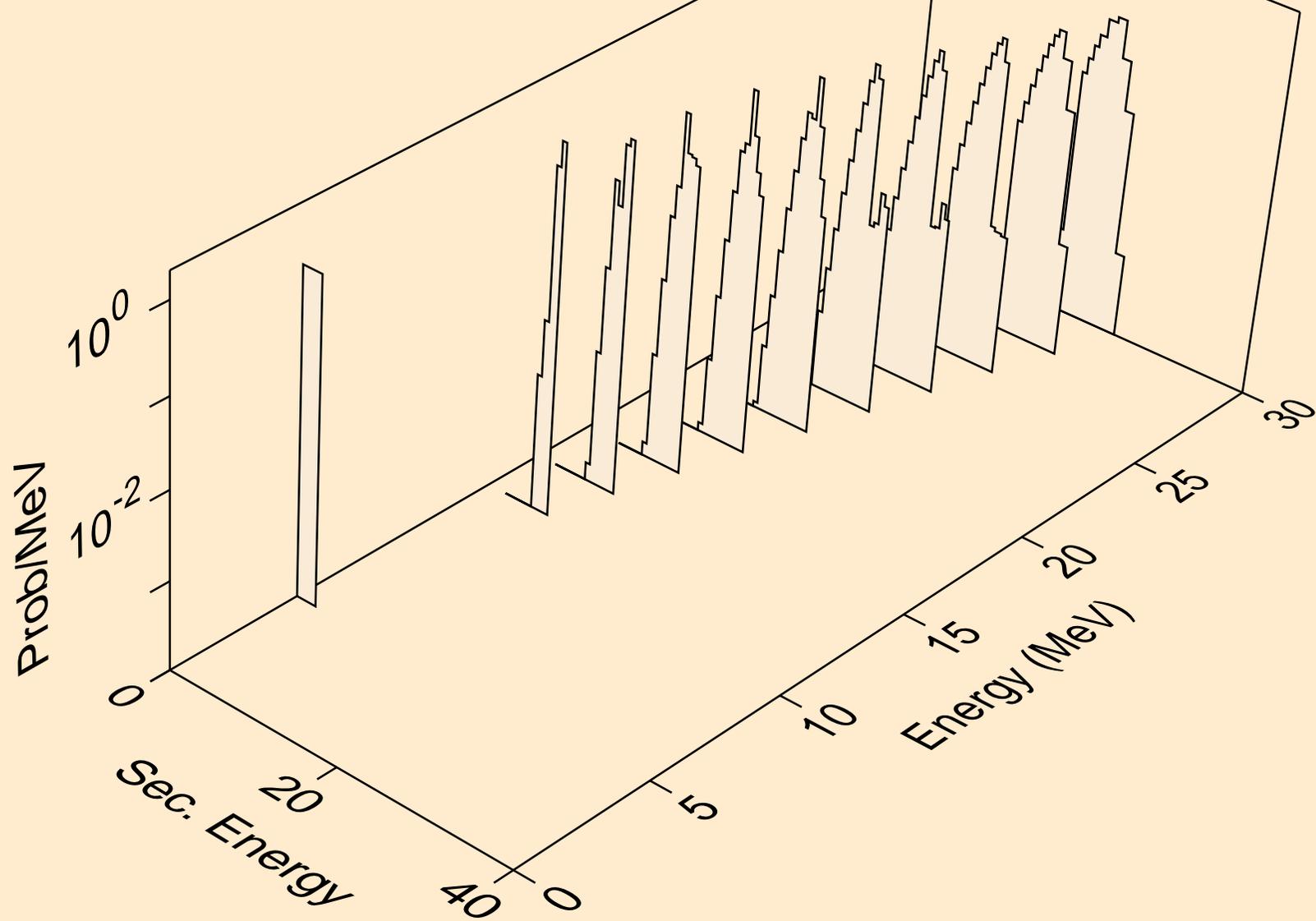
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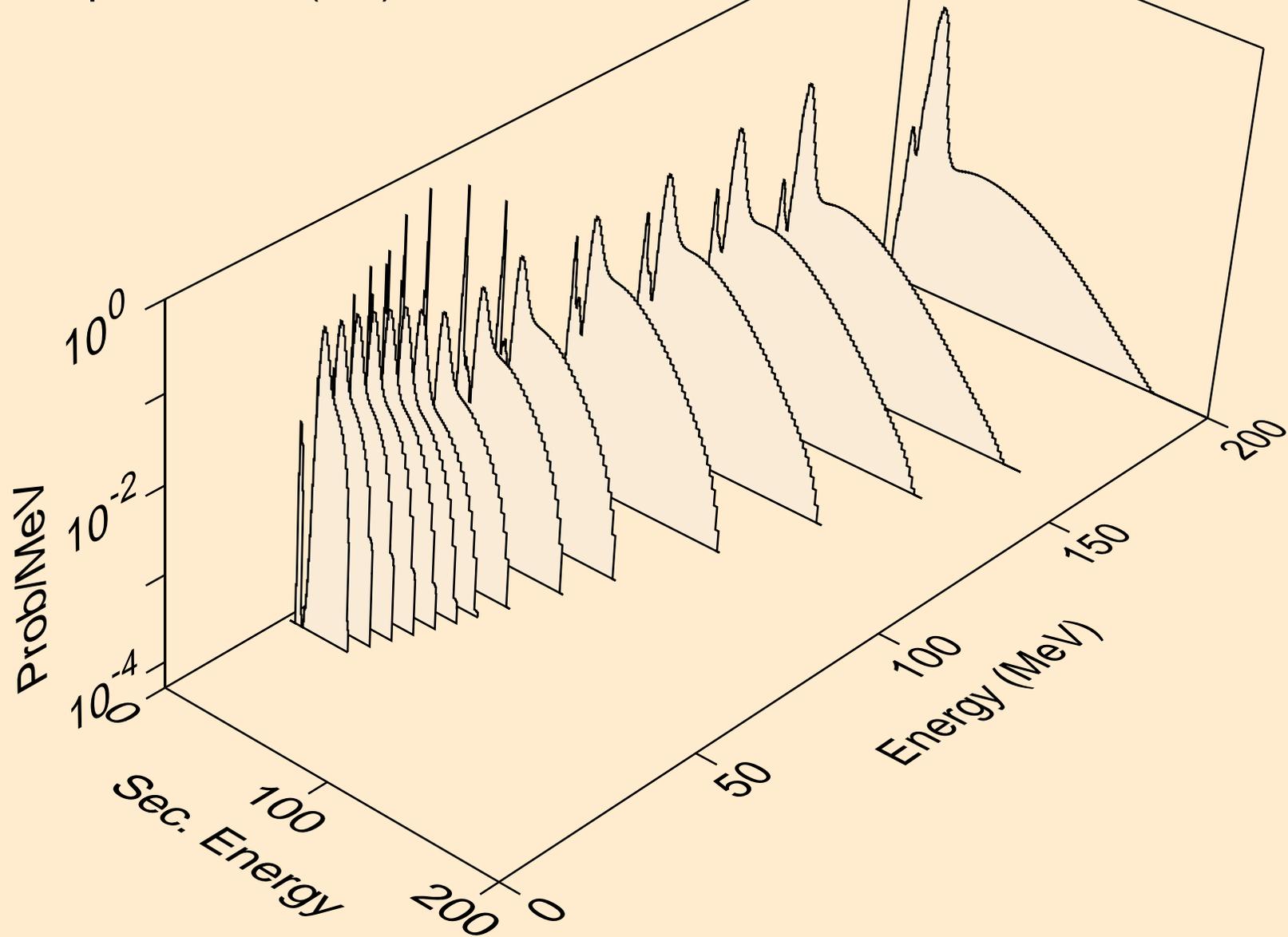
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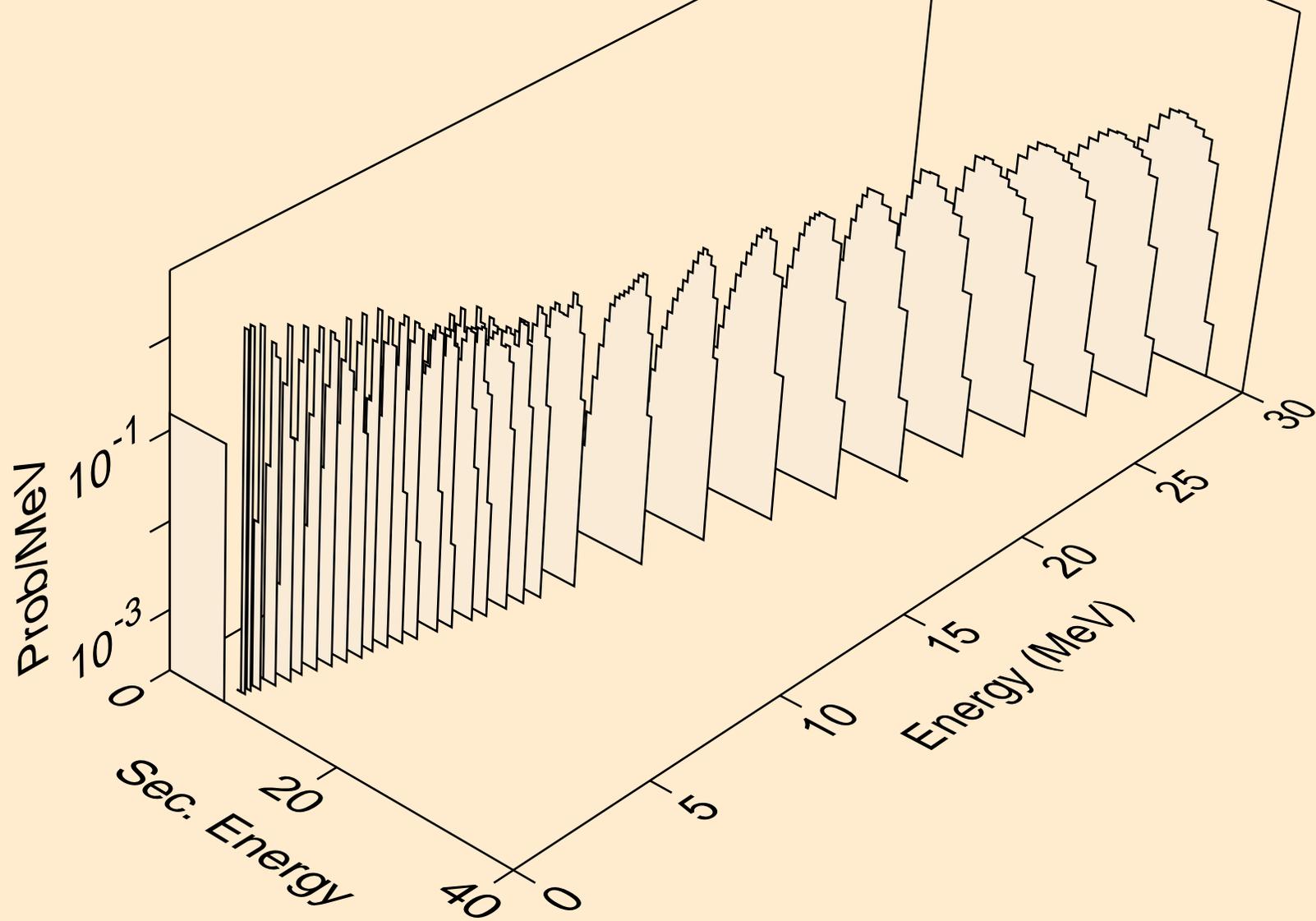
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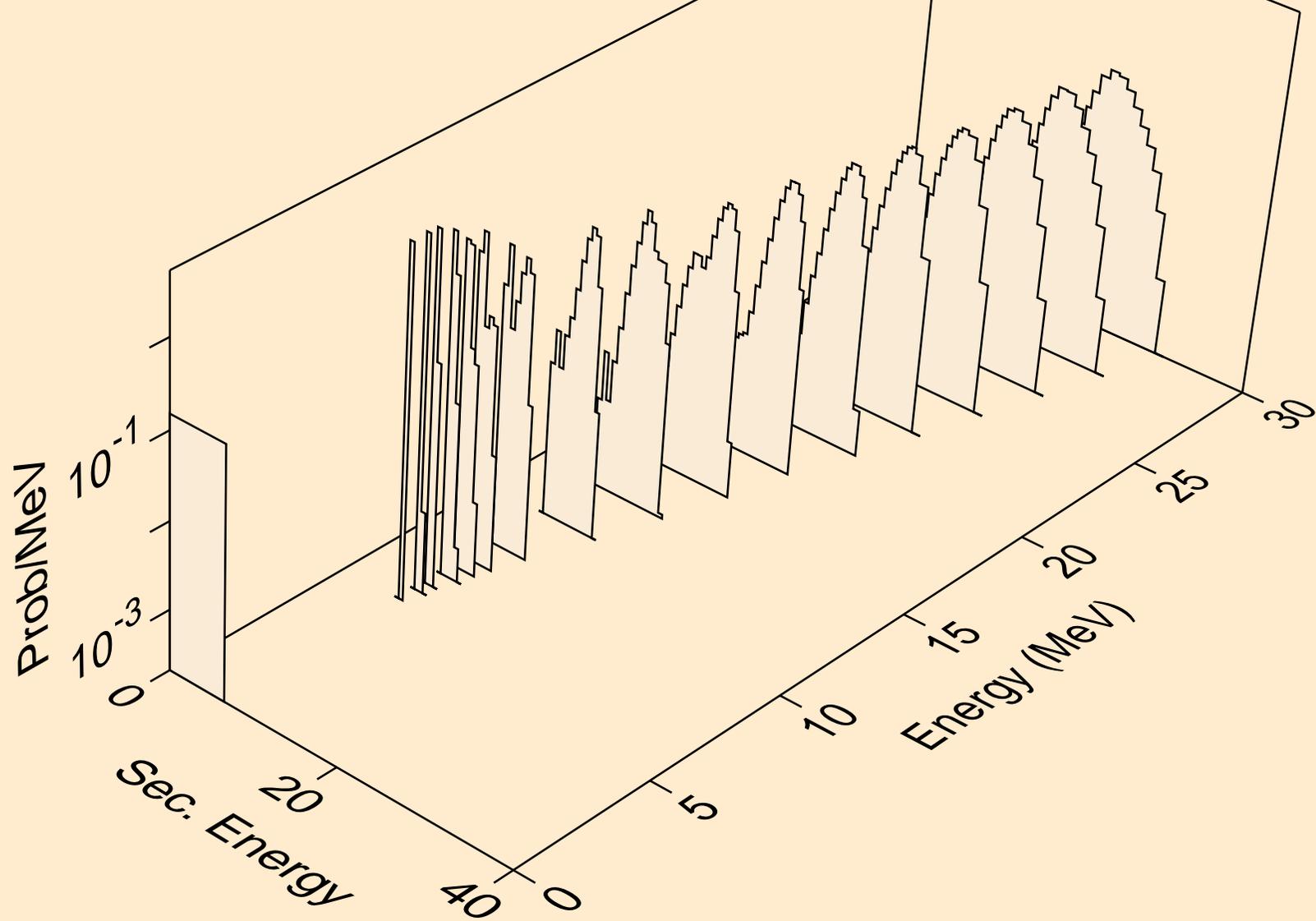
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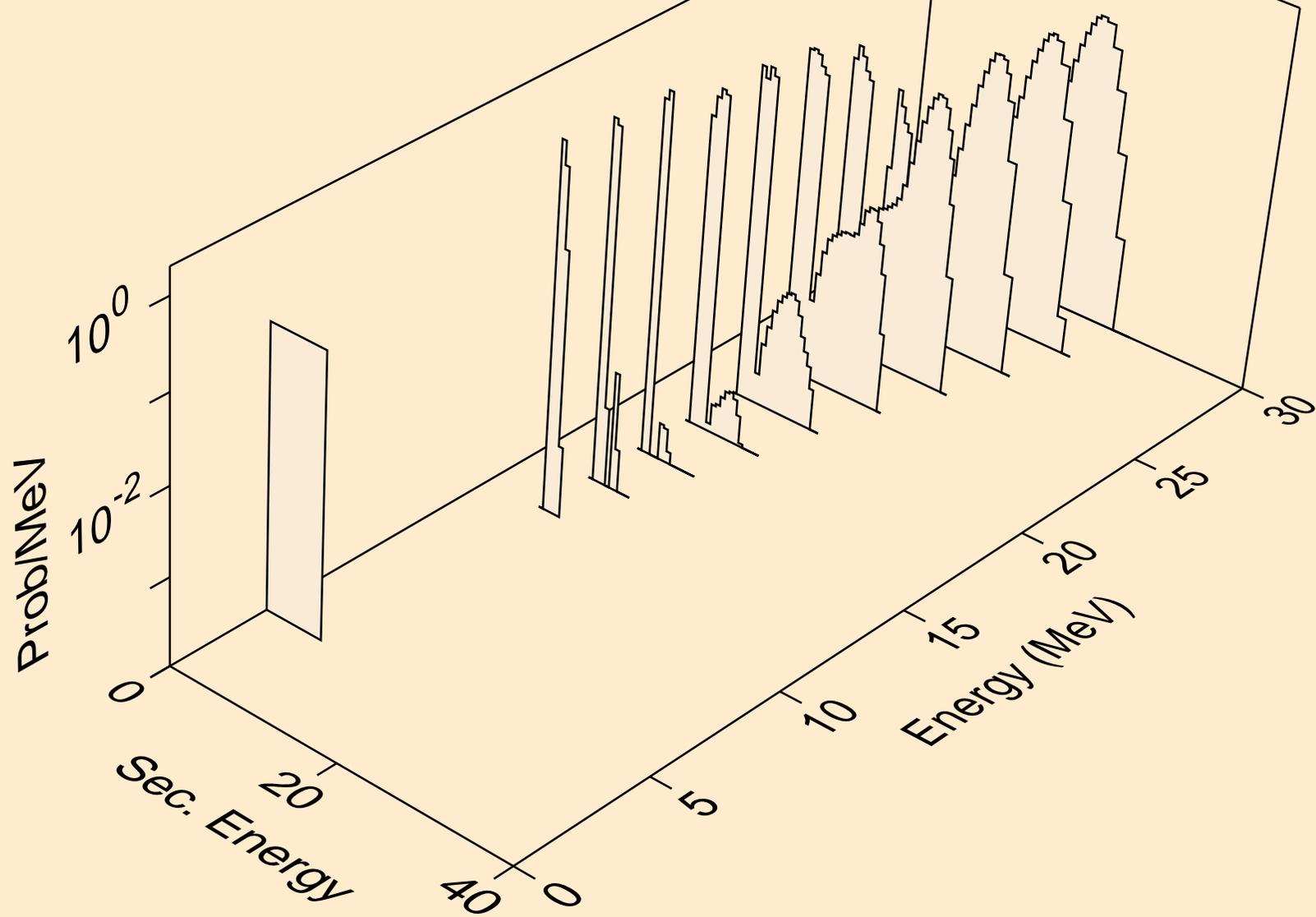
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alphas from (n,n\*)a



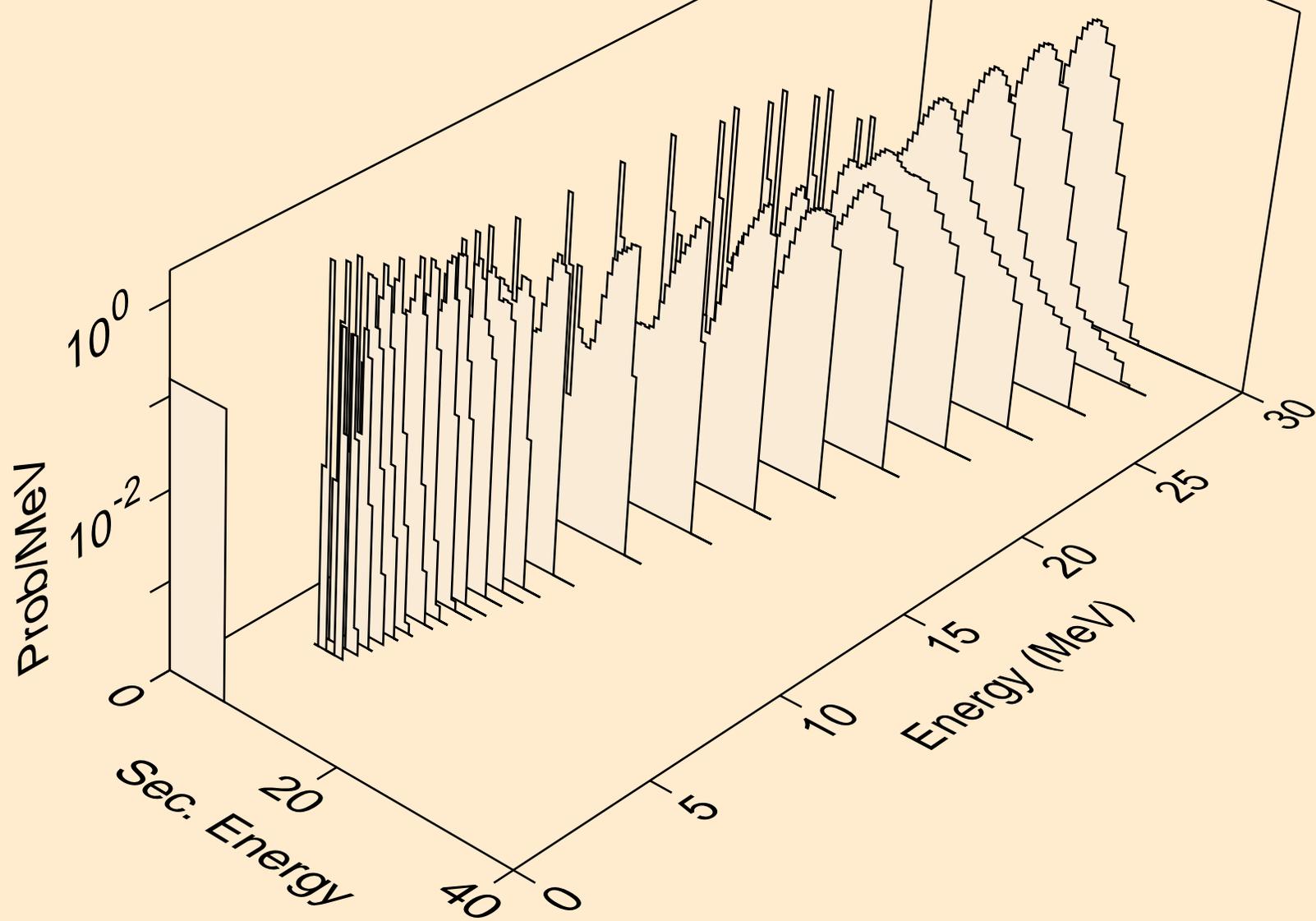
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alphas from (n,2n)a



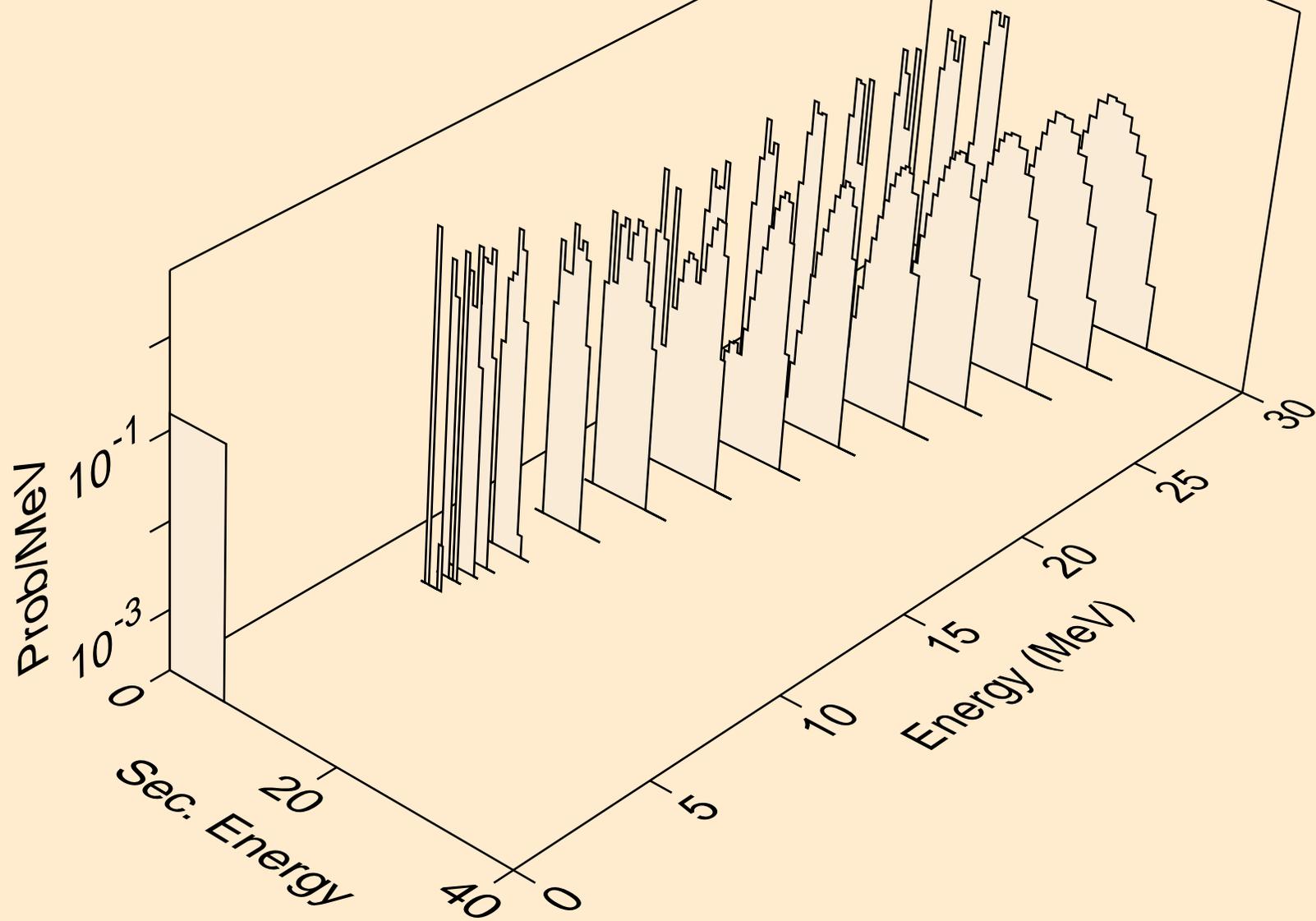
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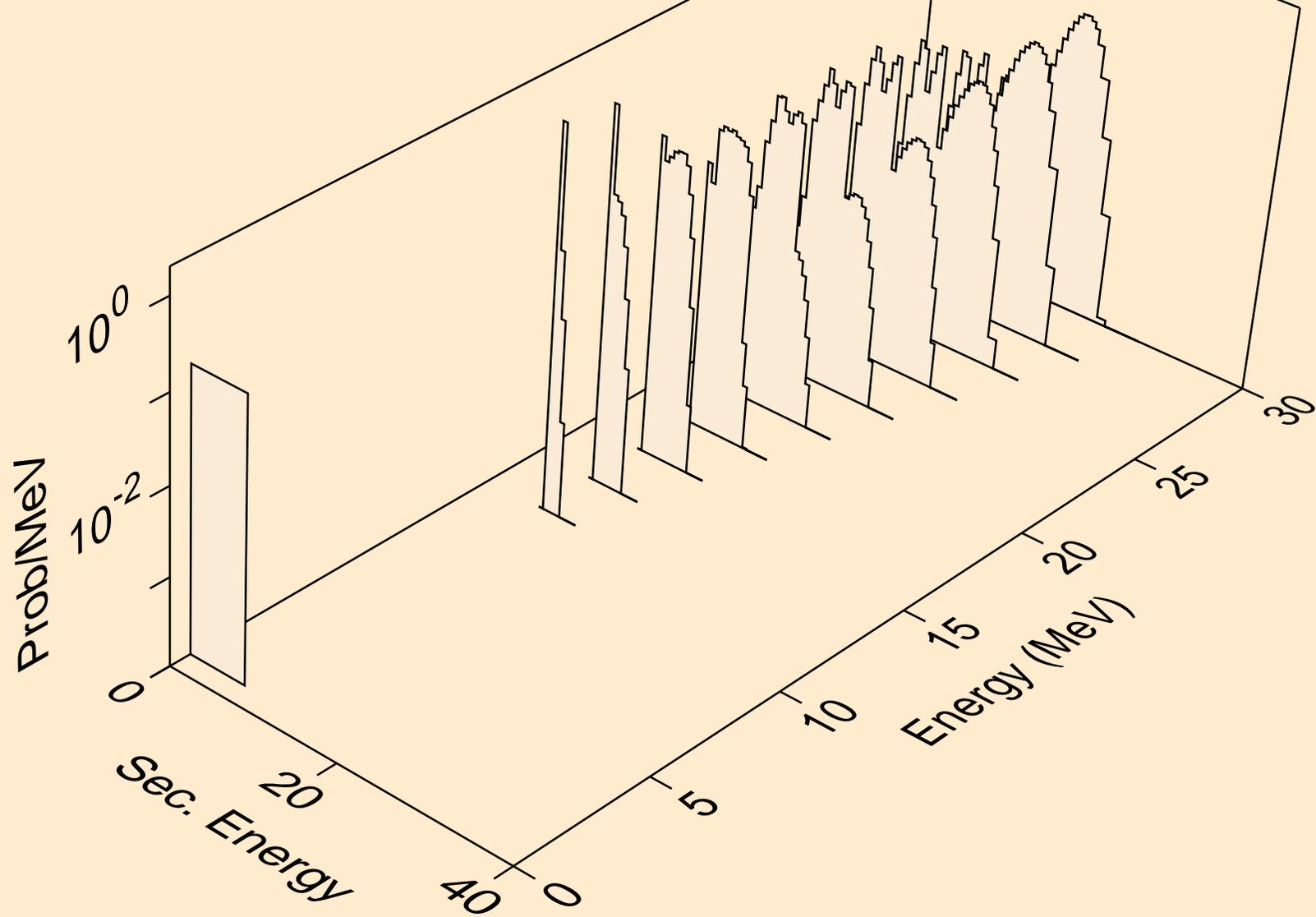
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alphas from (n,n\*)2a



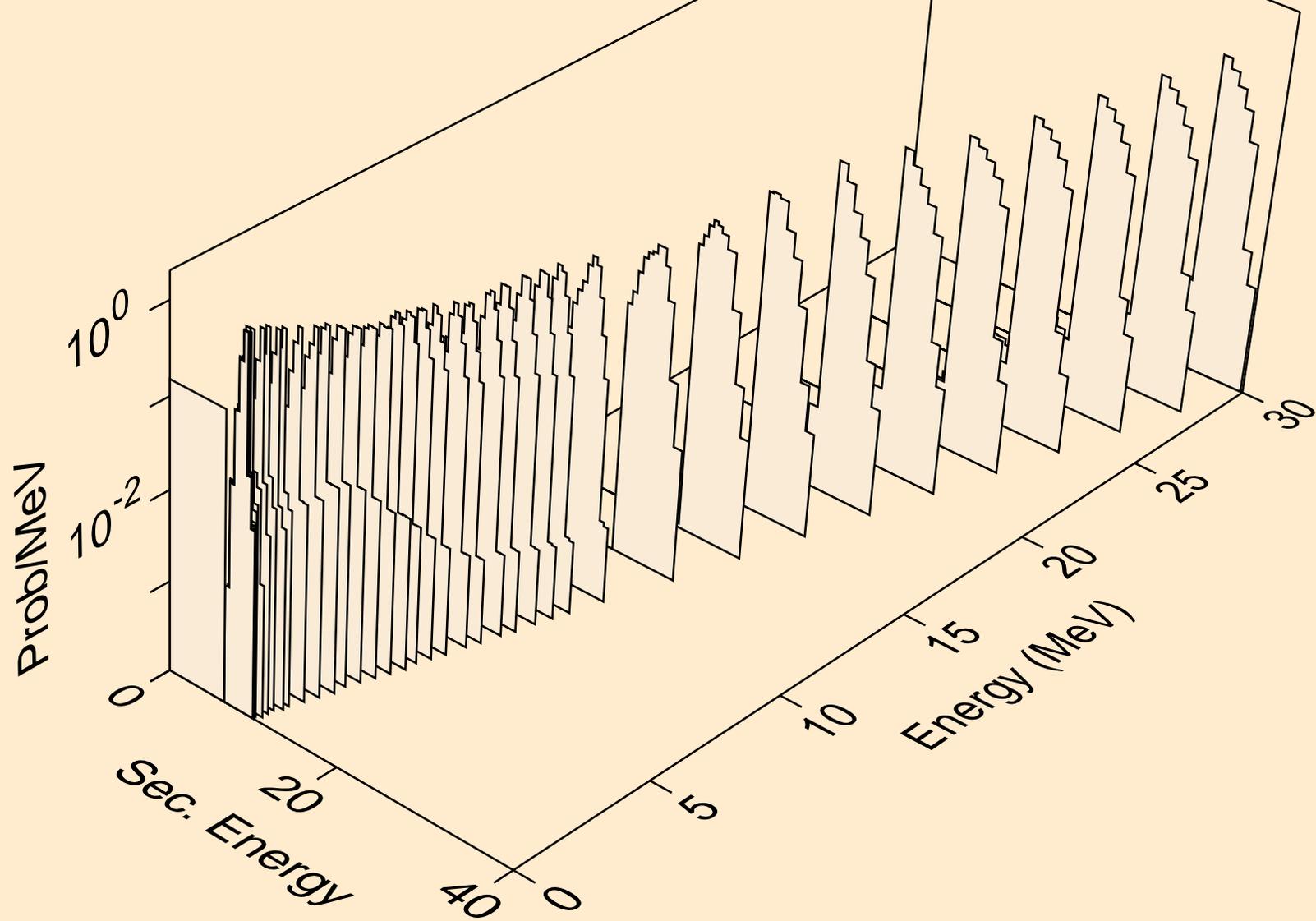
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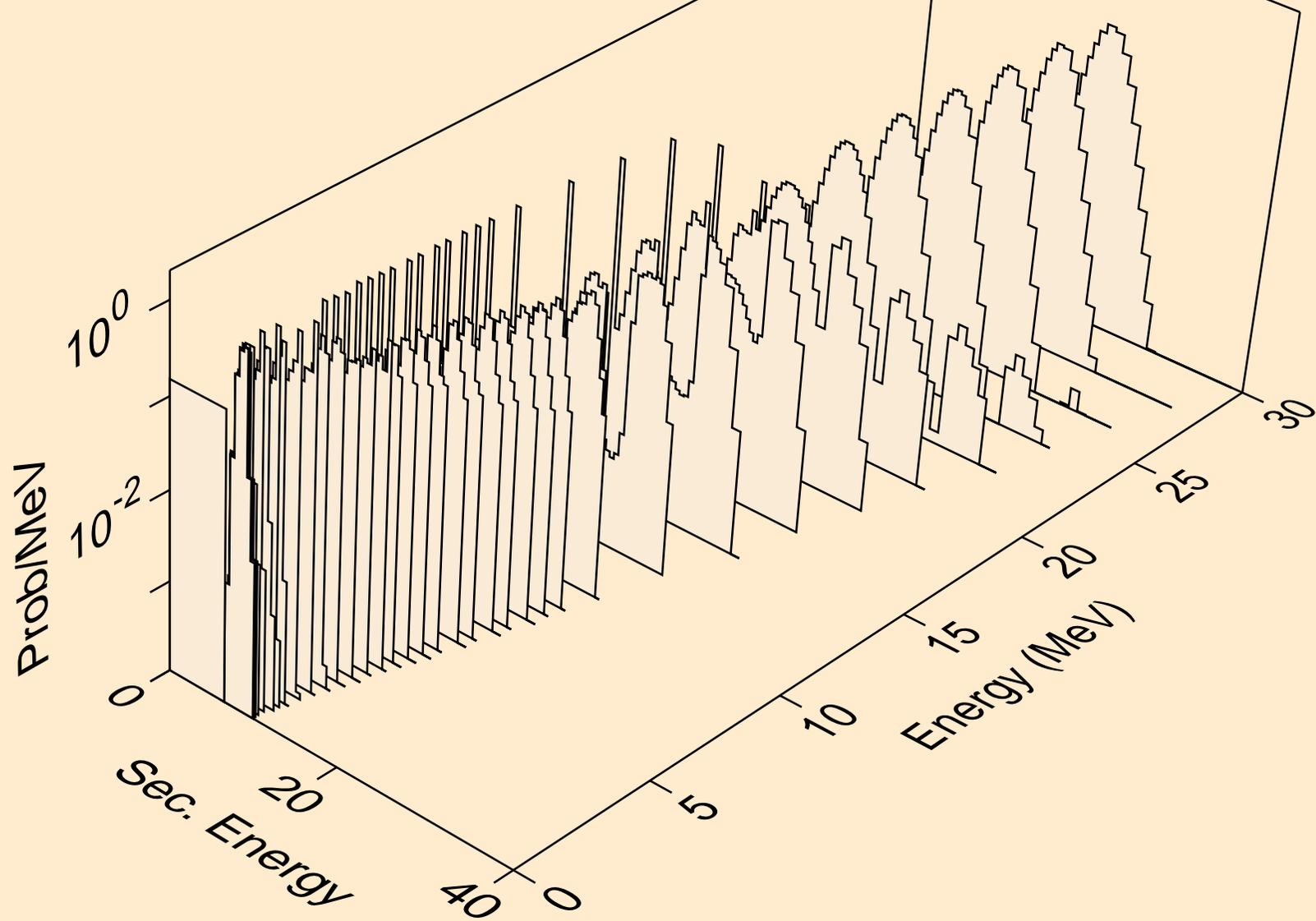
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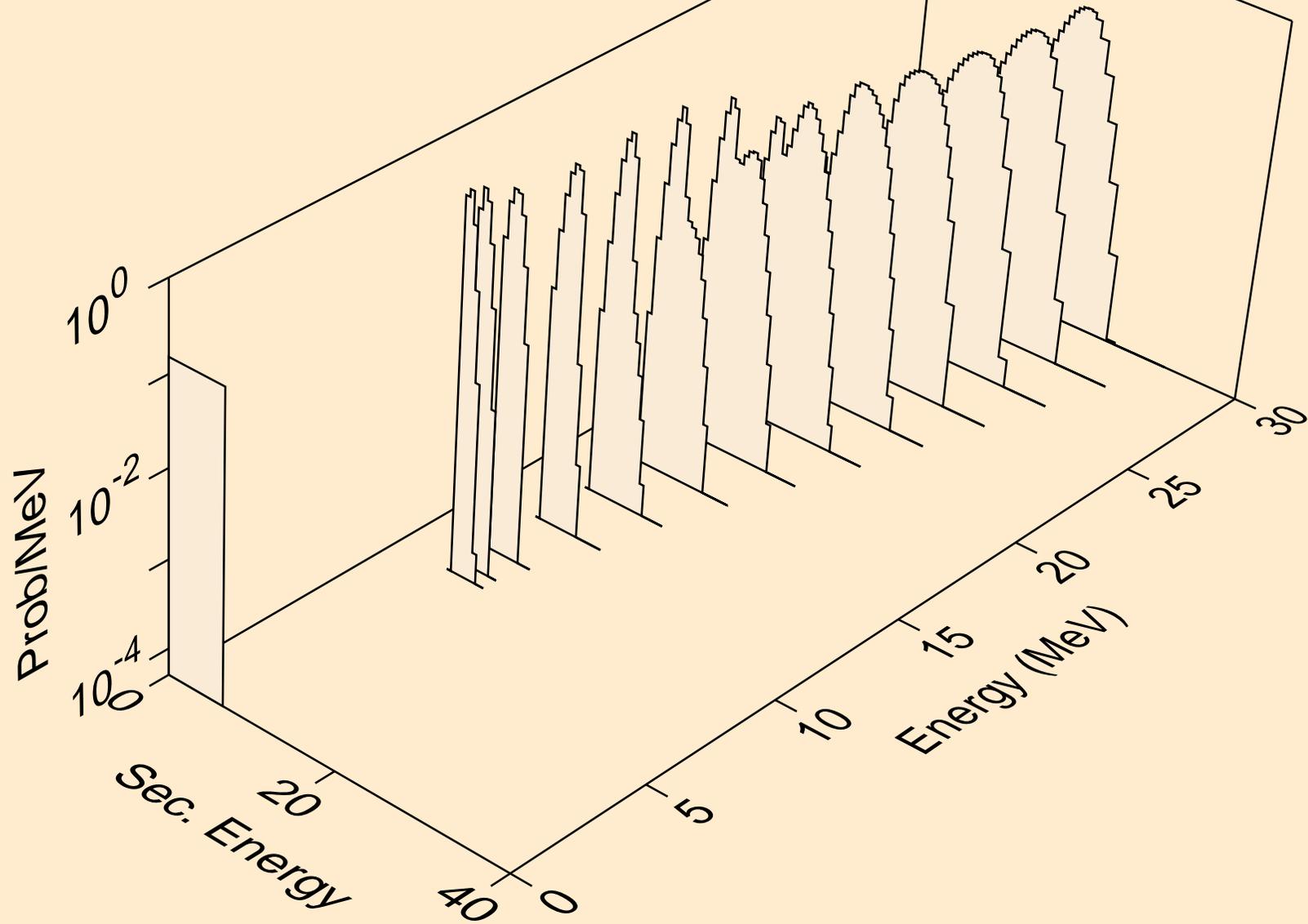
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alphas from (n,a)



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alphas from (n,2a)



RN220 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,pa)



RN220 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,da)

