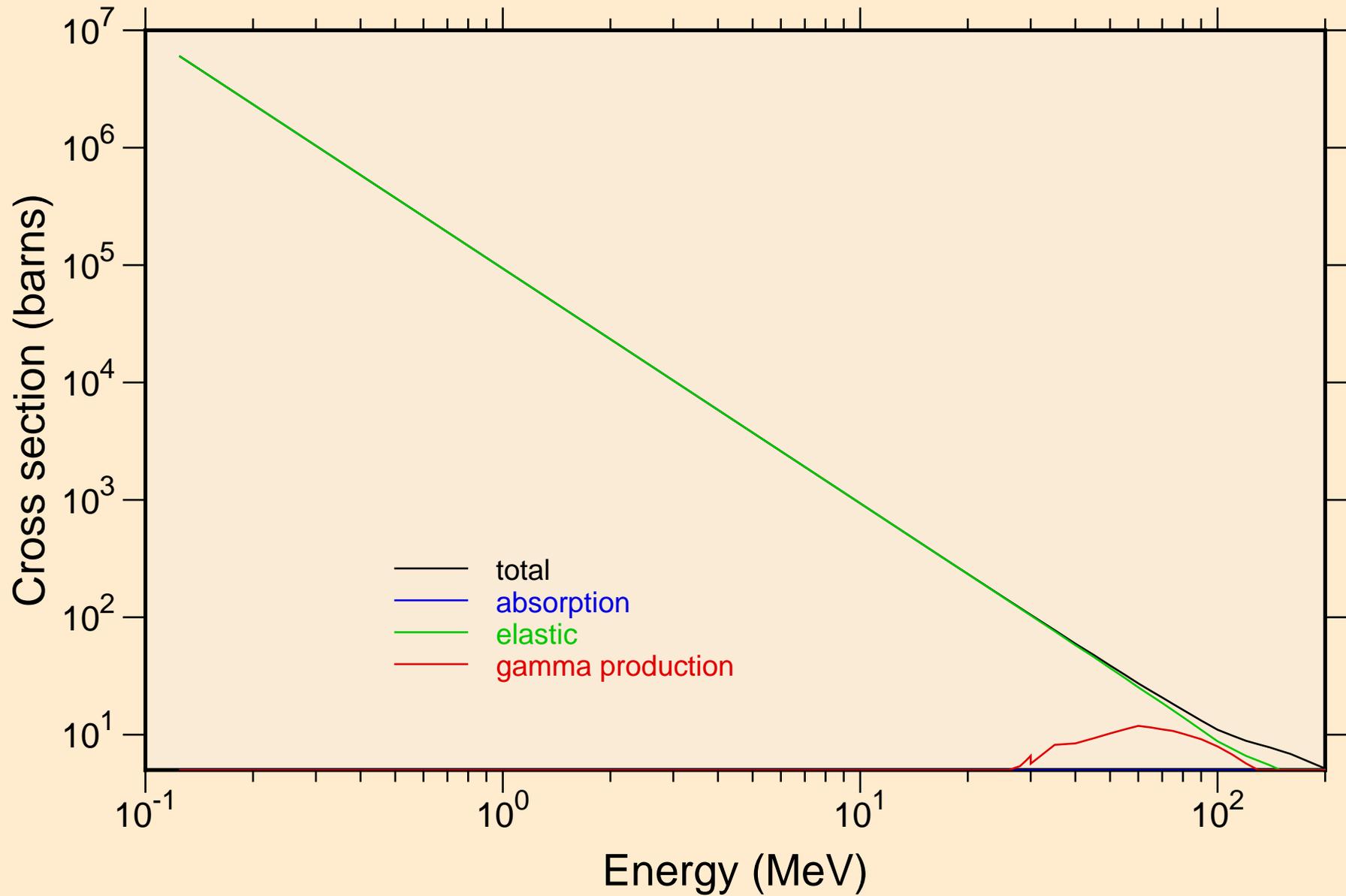
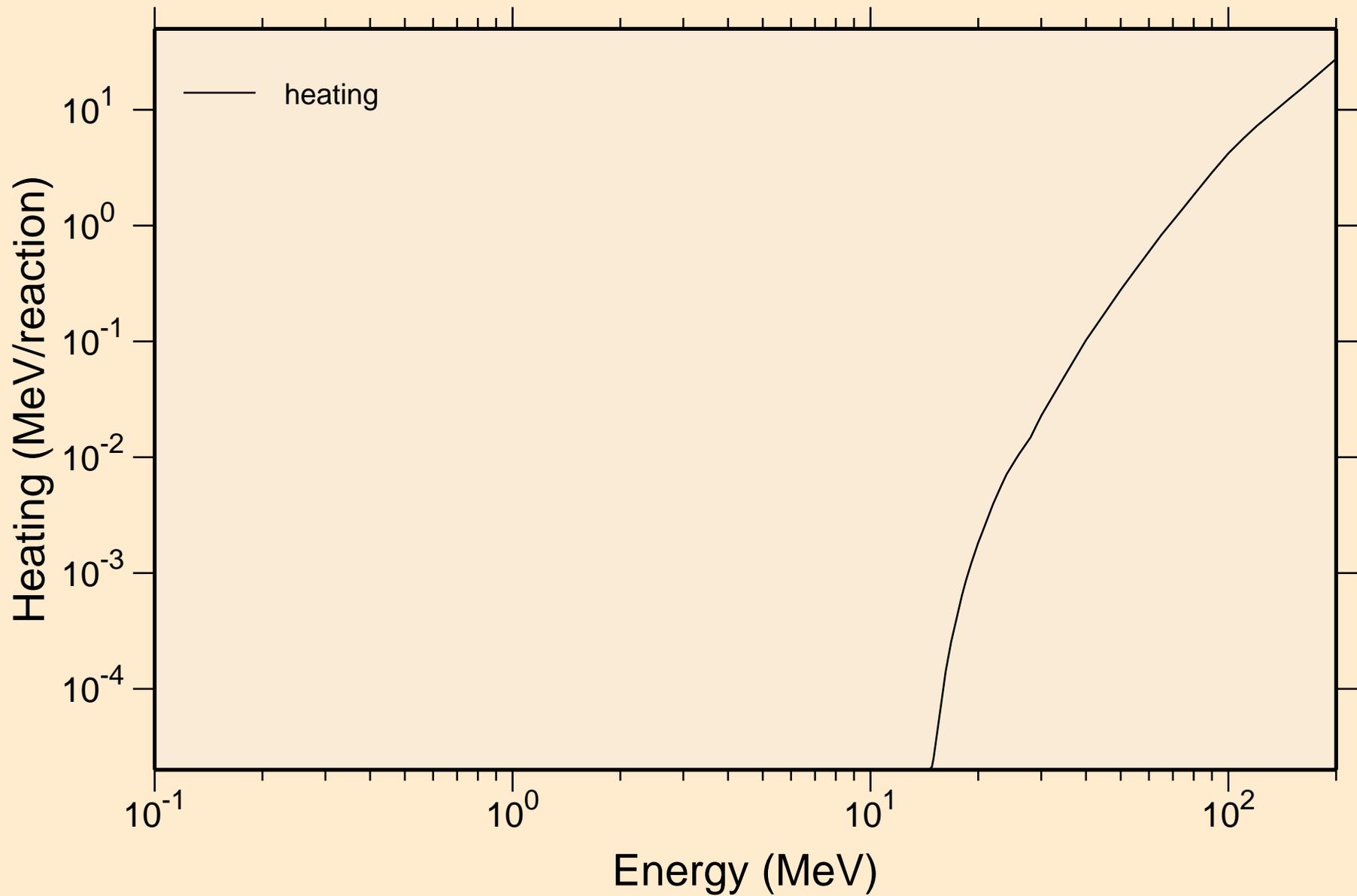


ND139 ALPHA ACER TENDL-2021 LIBRARY; T=0.K  
Principal cross sections

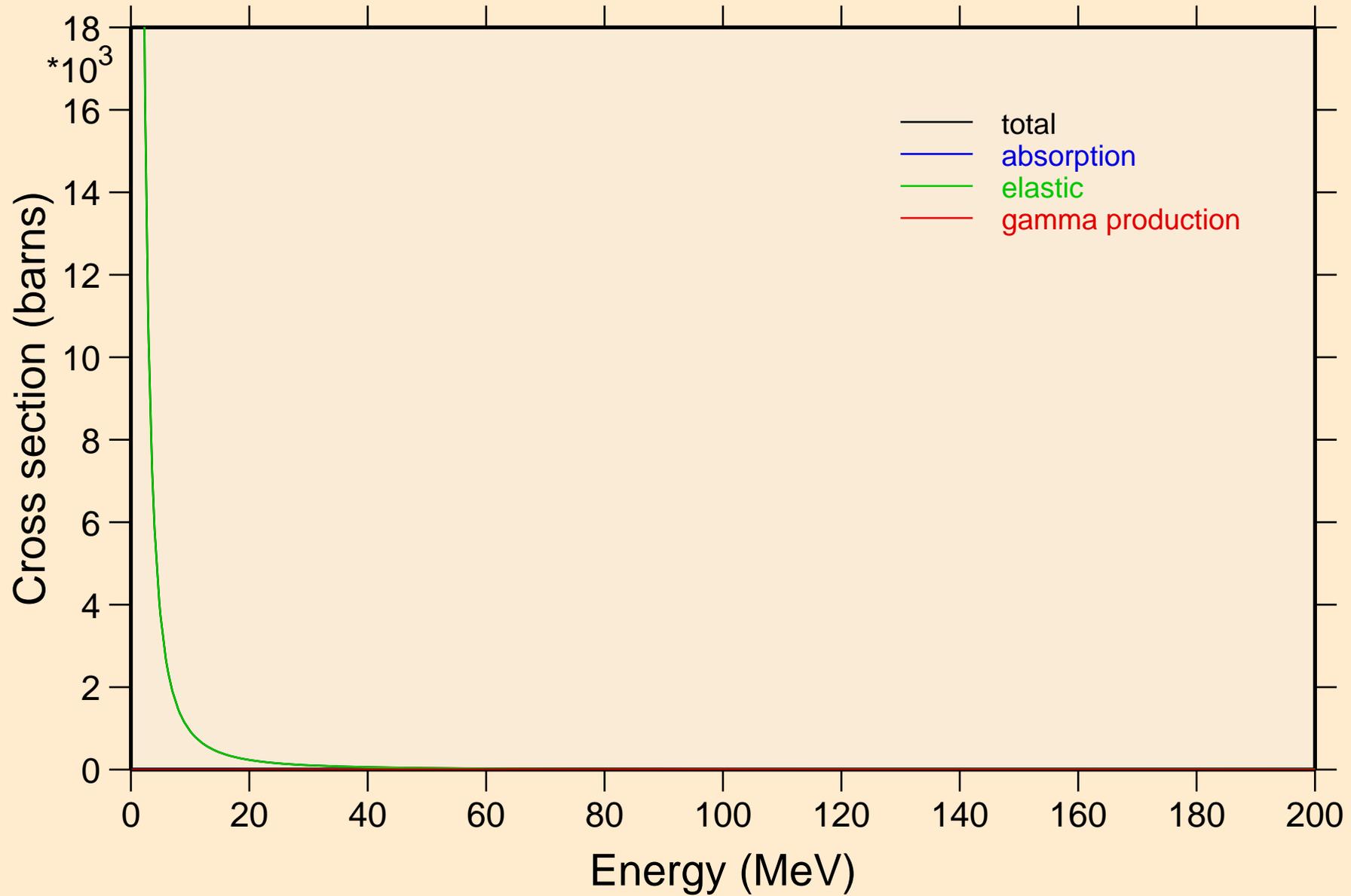


ND139 ALPHA ACER TENDL-2021 LIBRARY; T=0.K  
Heating



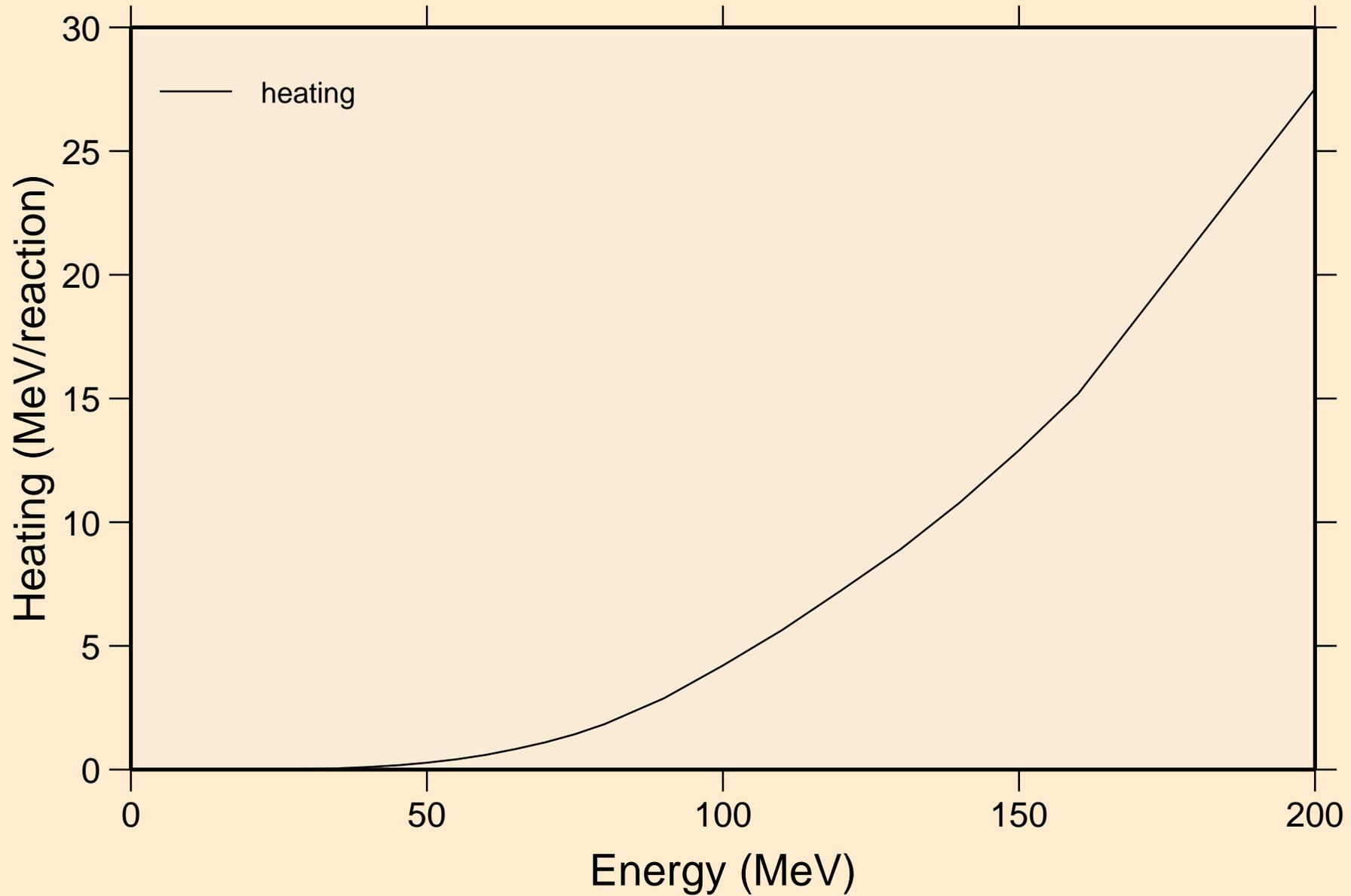
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## Principal cross sections



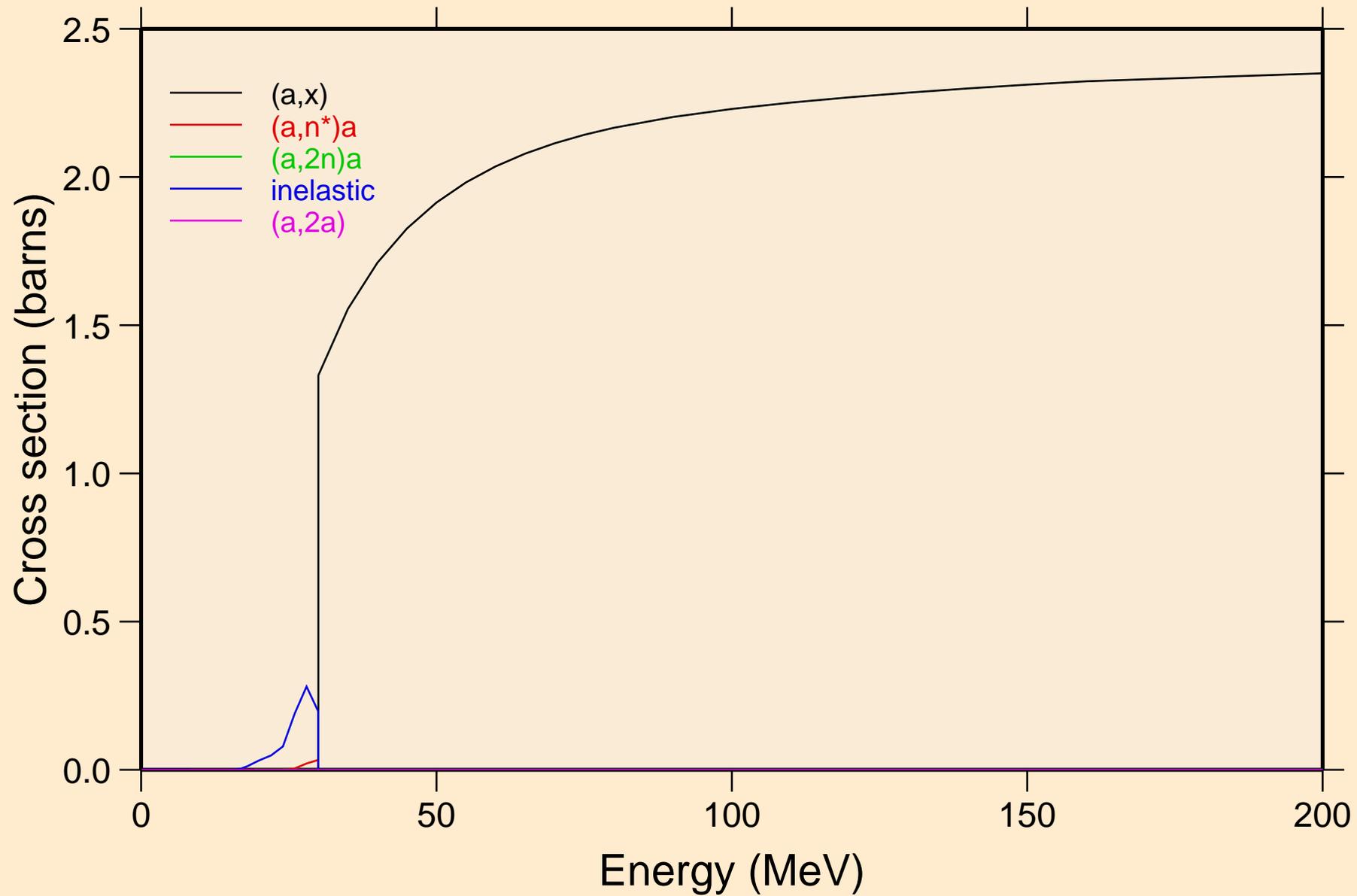
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Heating

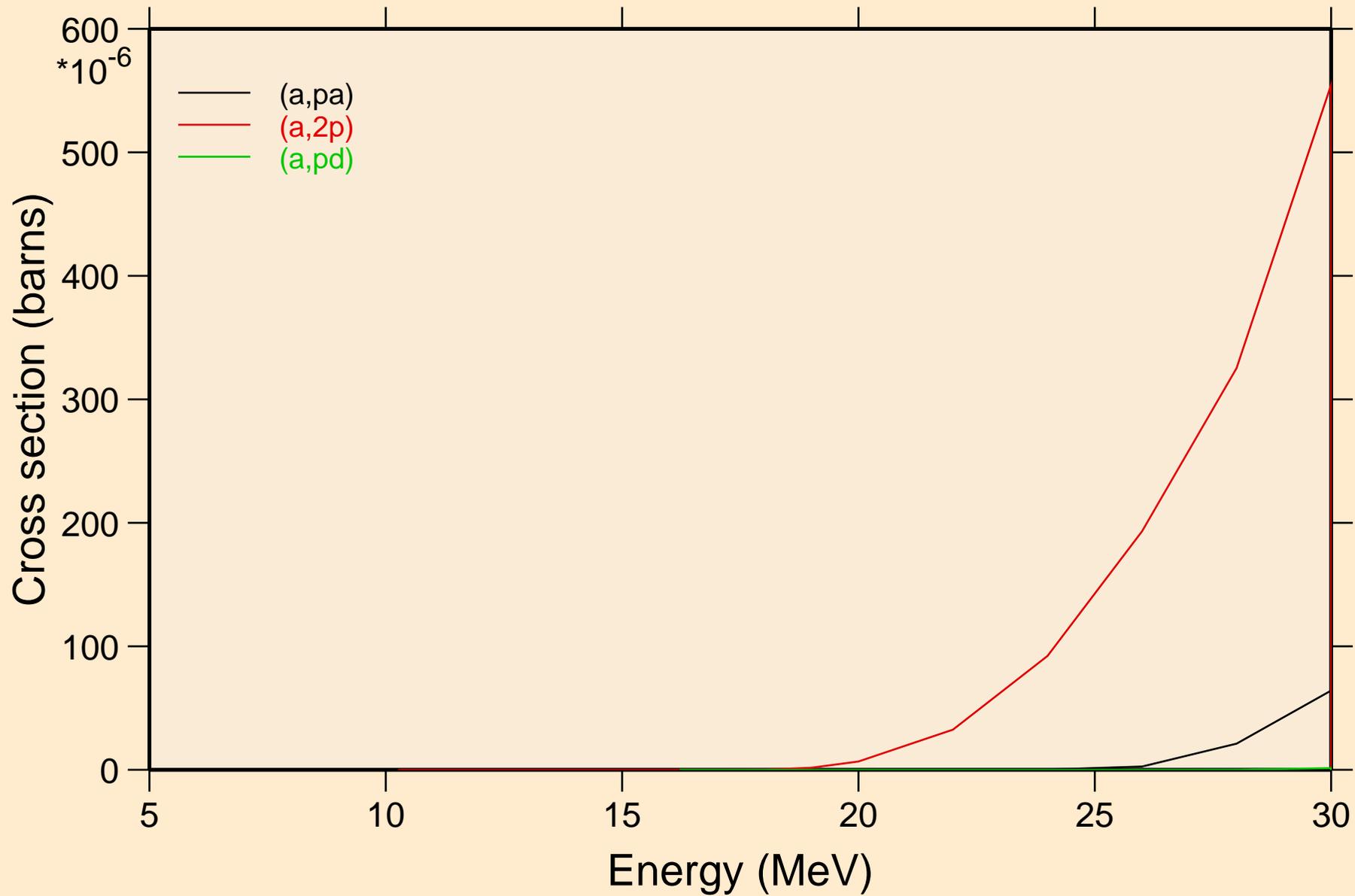


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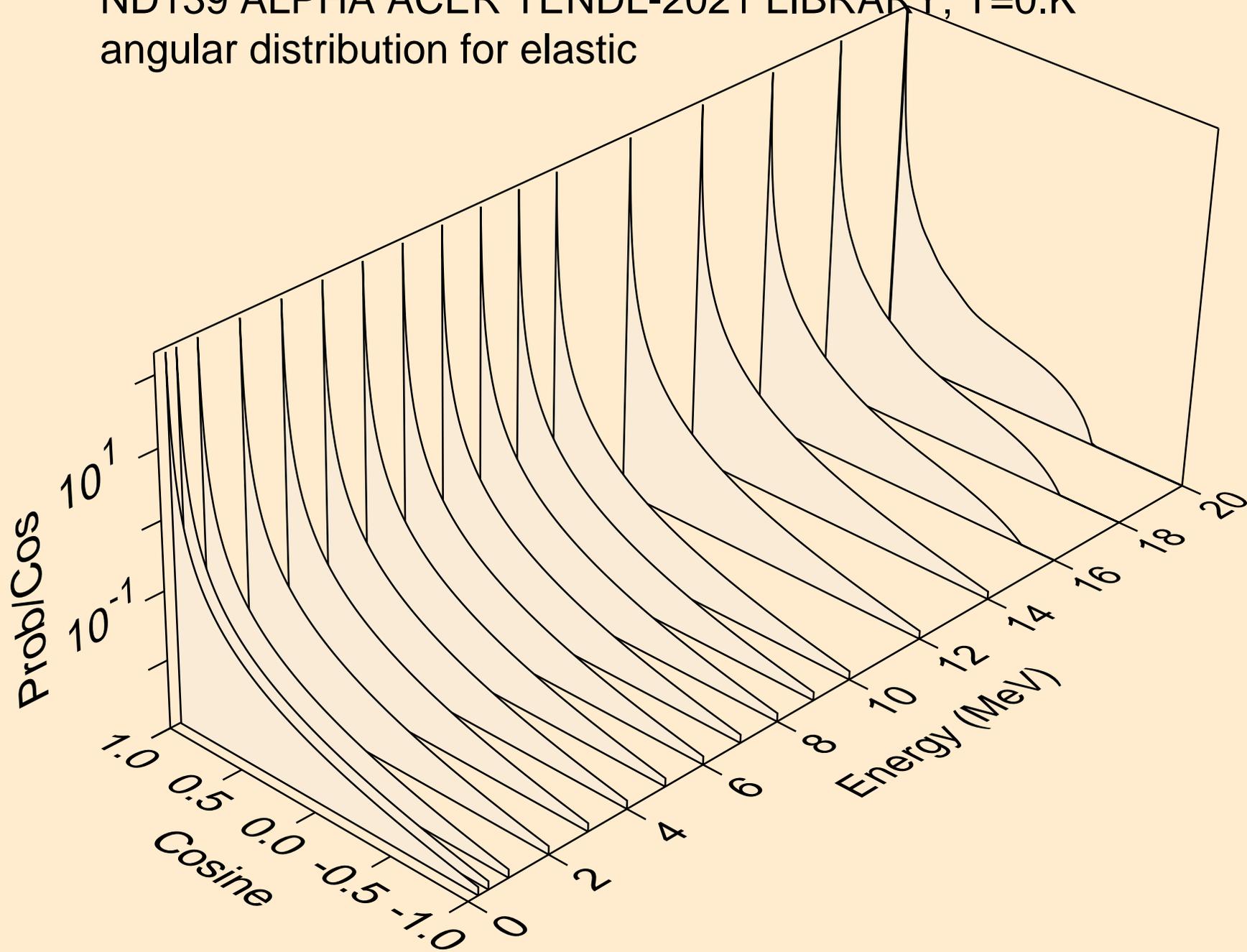
## Threshold reactions



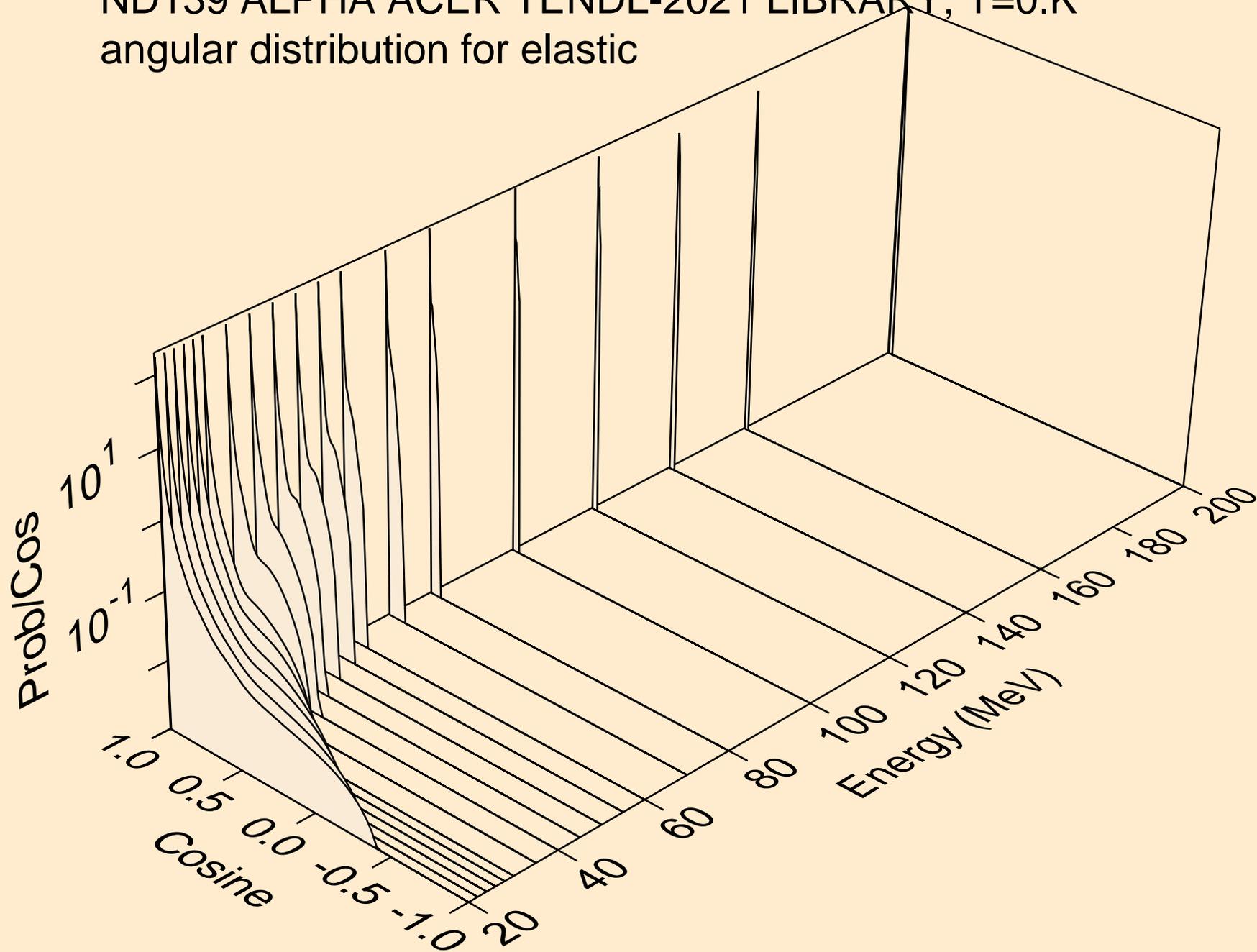
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Threshold reactions



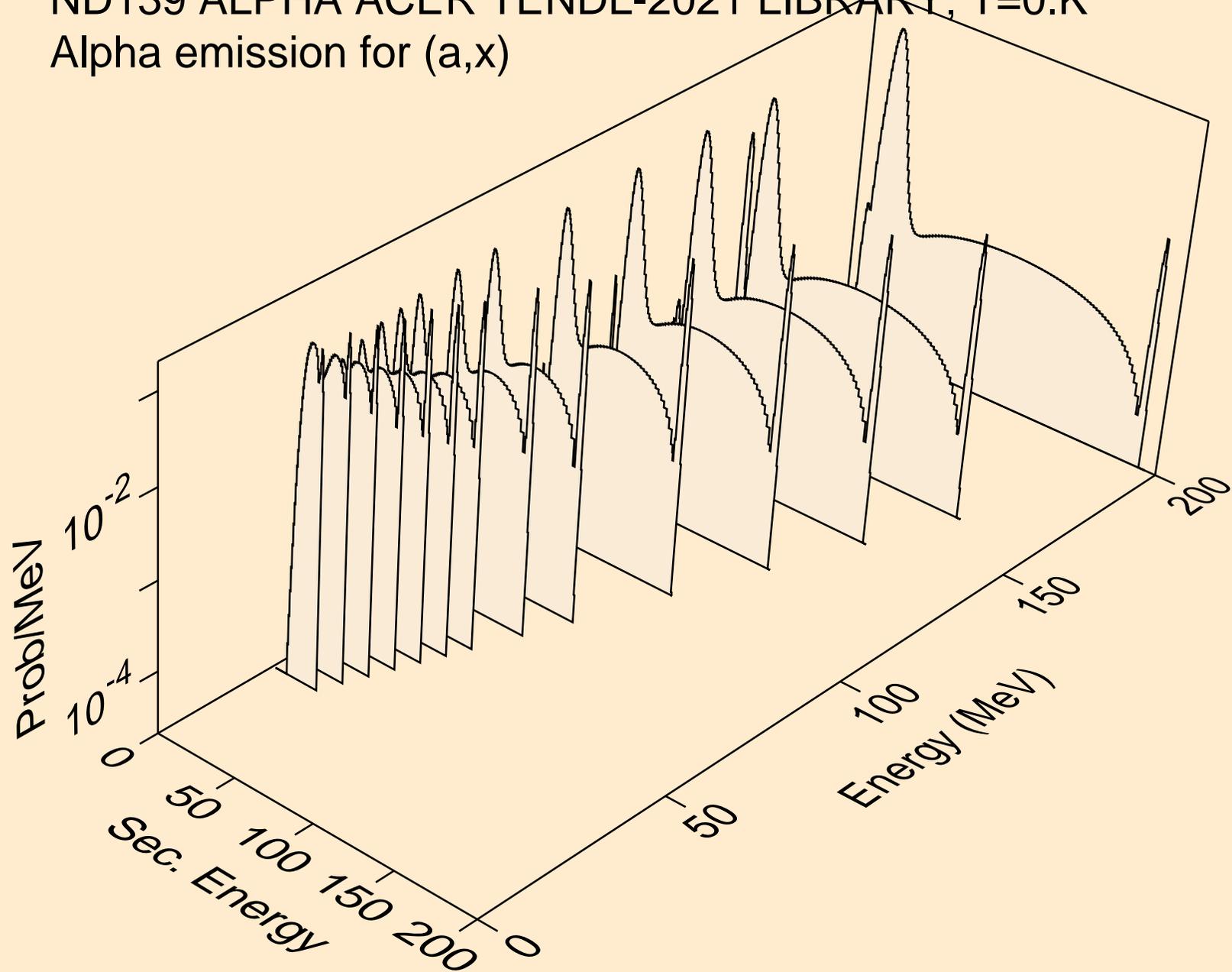
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angular distribution for elastic



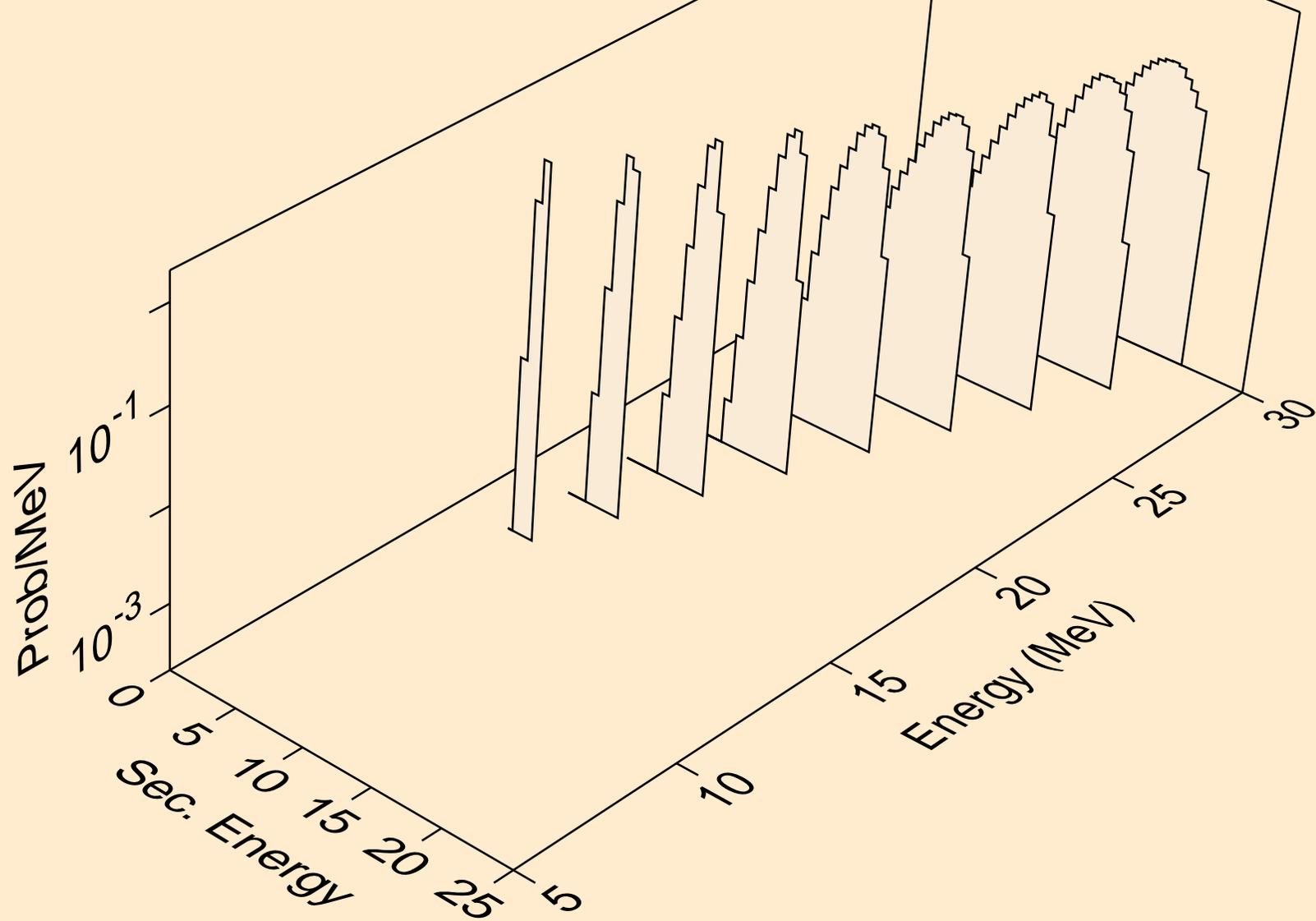
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angular distribution for elastic



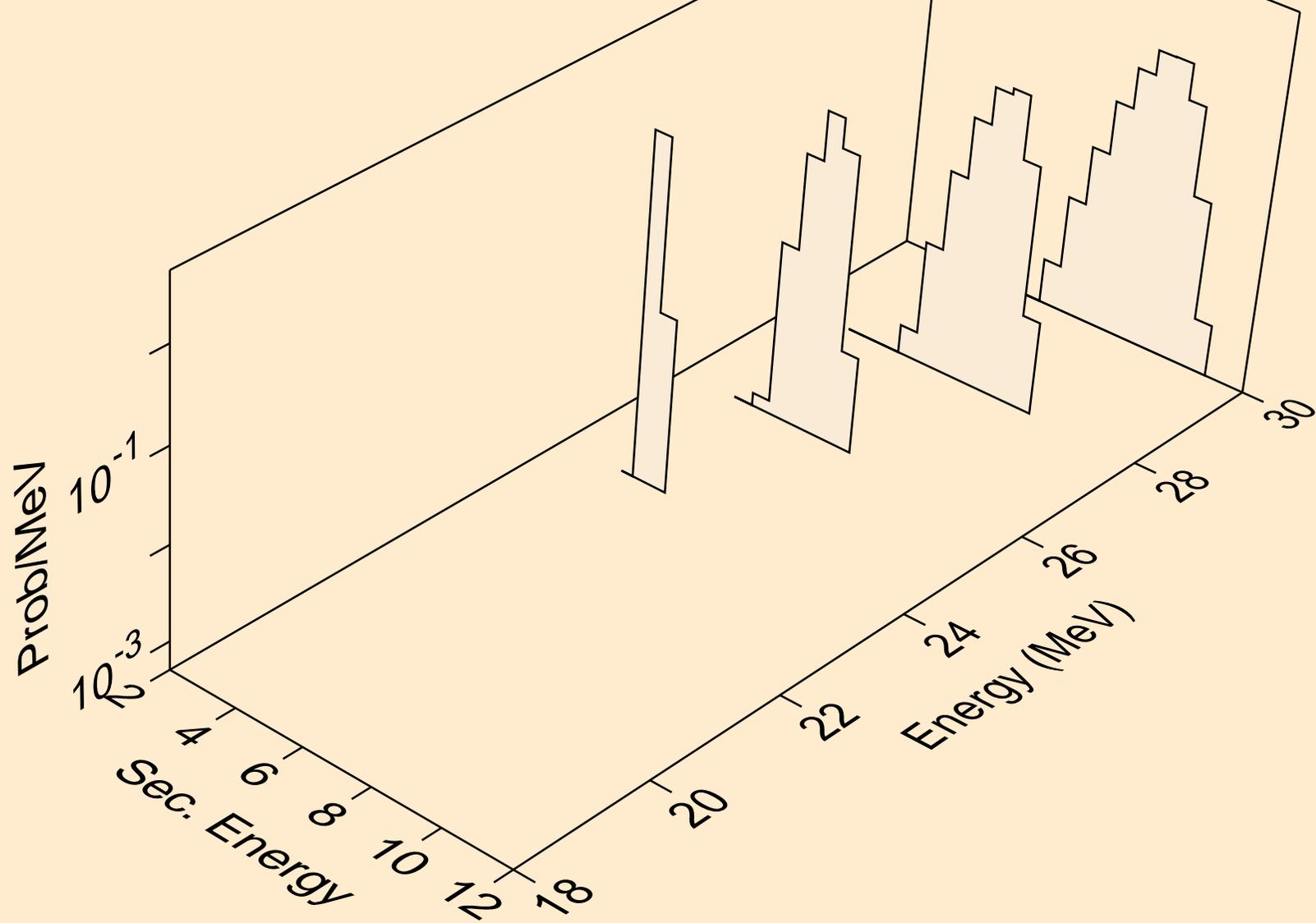
ND139 ALPHA ACER TENDL-2021 LIBRARY; T=0.K  
Alpha emission for (a,x)



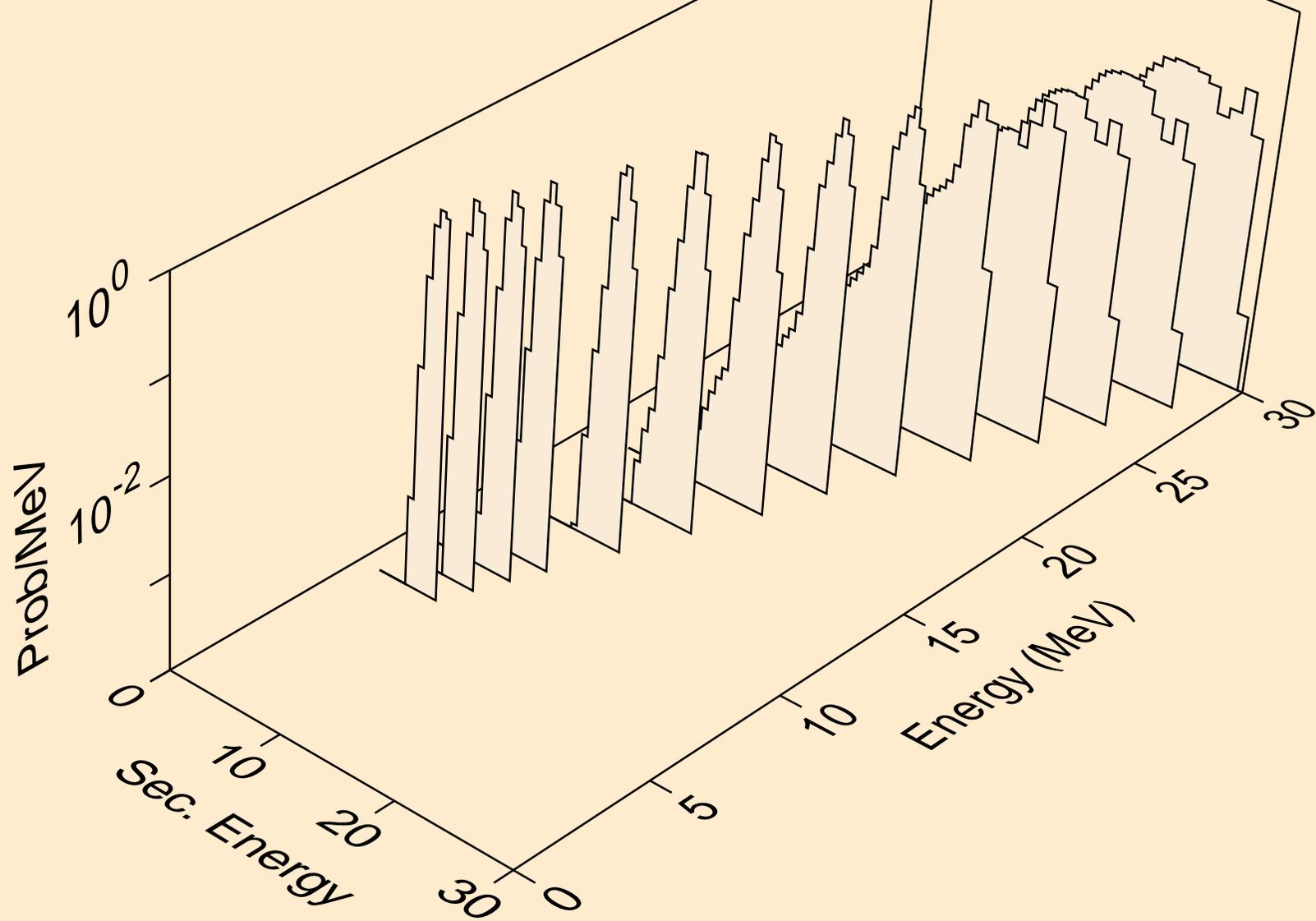
ND139 ALPHA ACER TENDL-2021 LIBRARY; T=0.K  
Alpha emission for (a,n\*)a



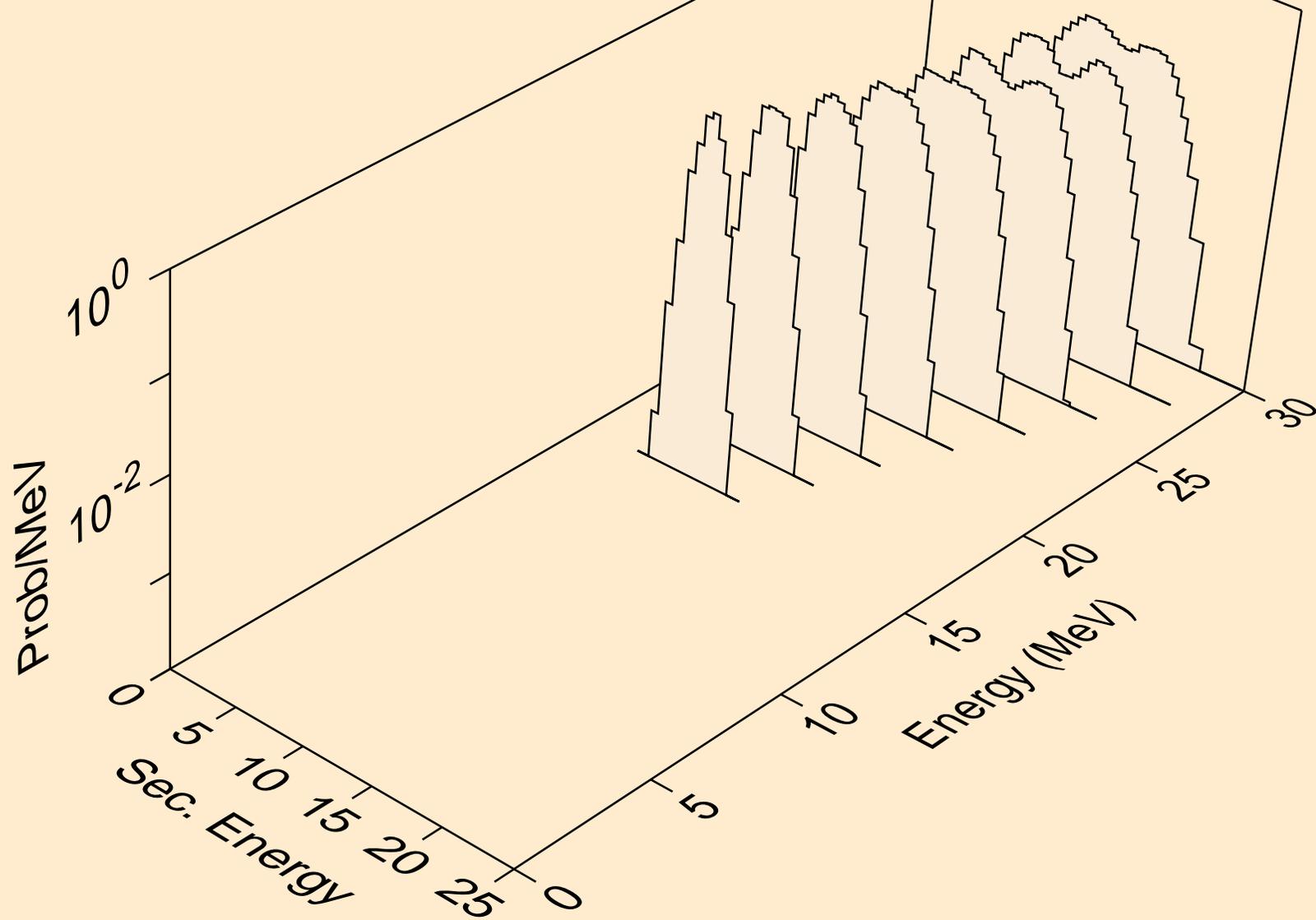
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Alpha emission for (a,2n)a



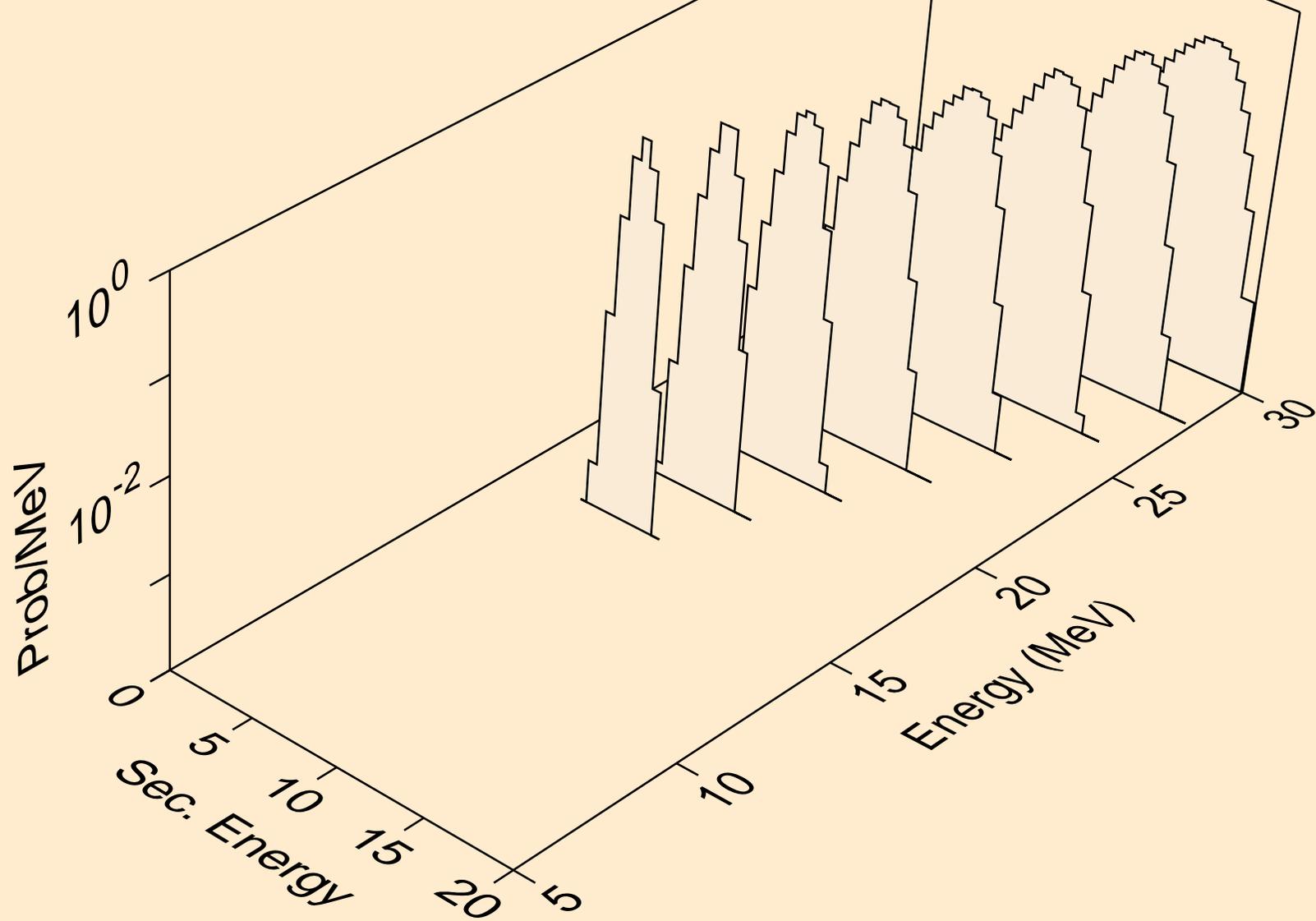
ND139 ALPHA ACER TENDL-2021 LIBRARY; T=0.K  
Alpha emission for inelastic



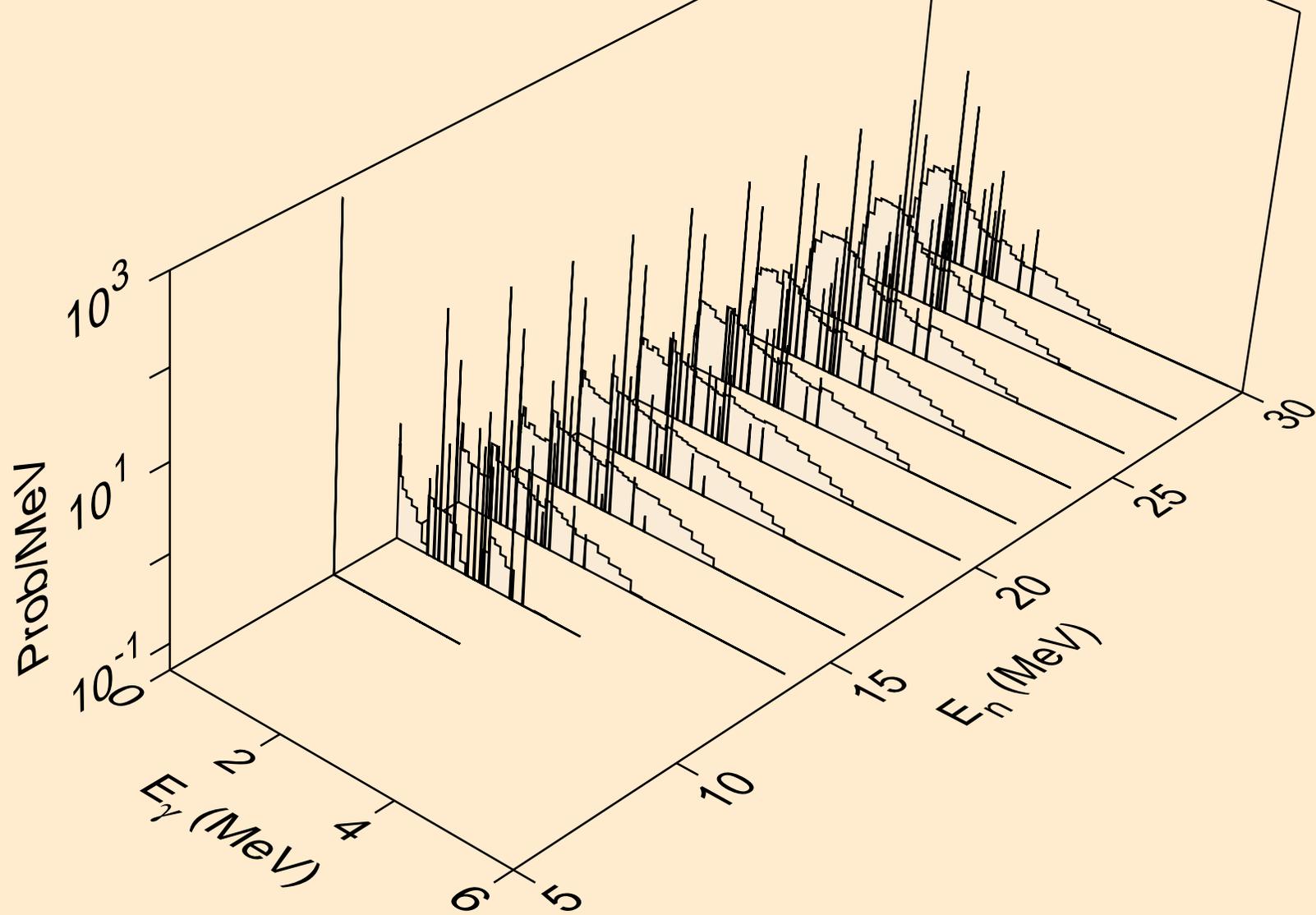
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Alpha emission for (a,2a)



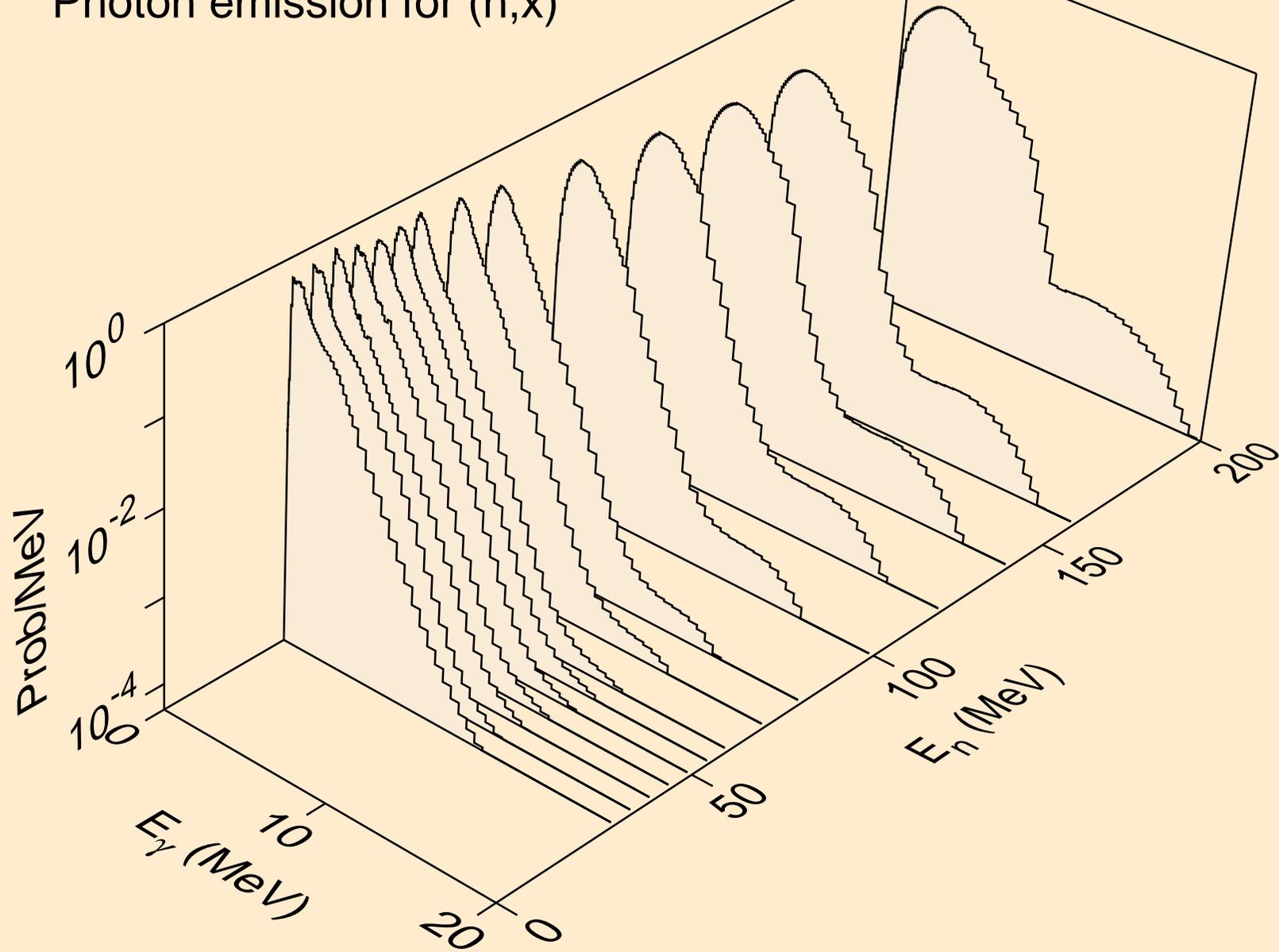
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Alpha emission for (a,pa)



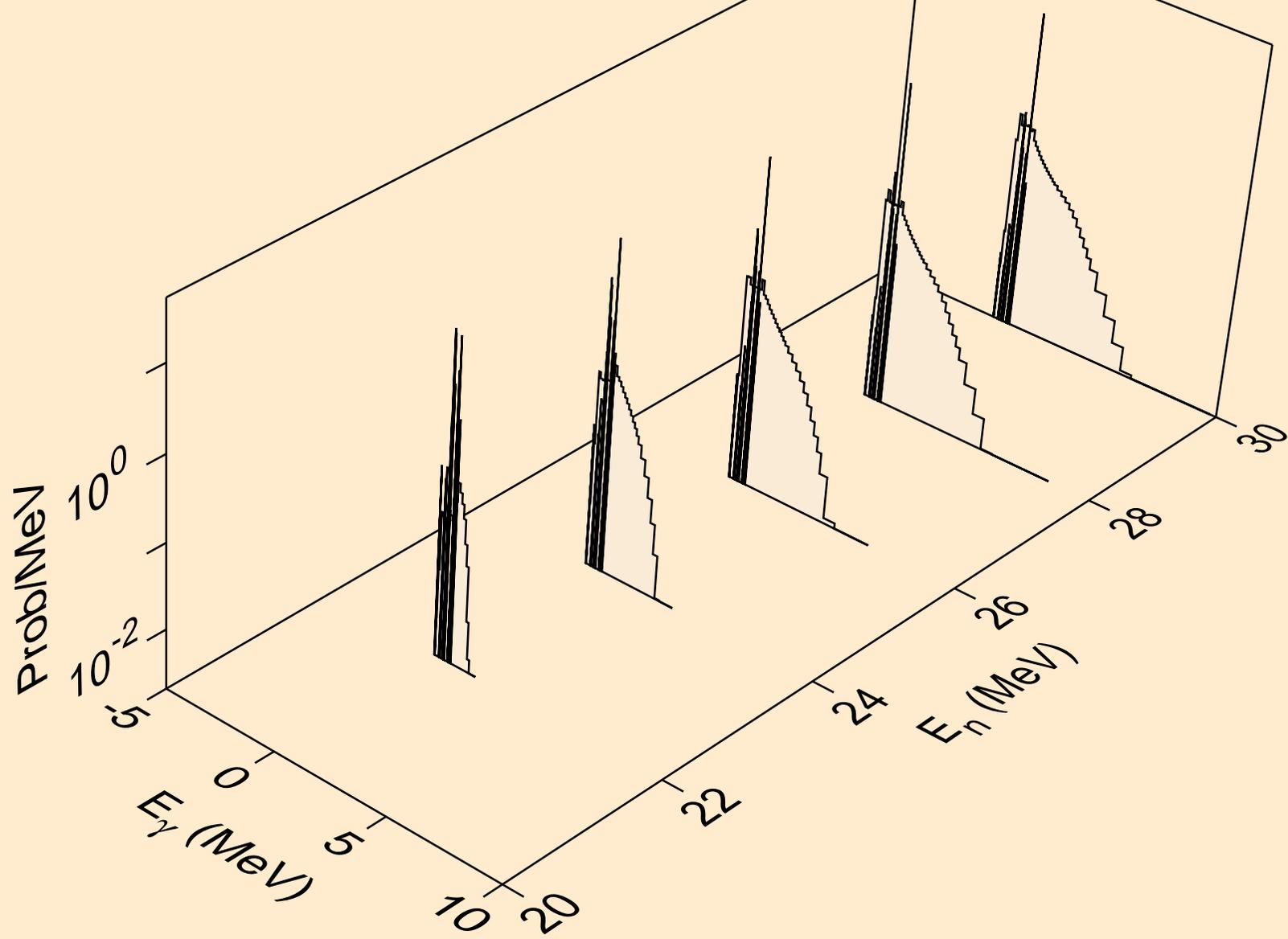
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Photon emission for (z,n)



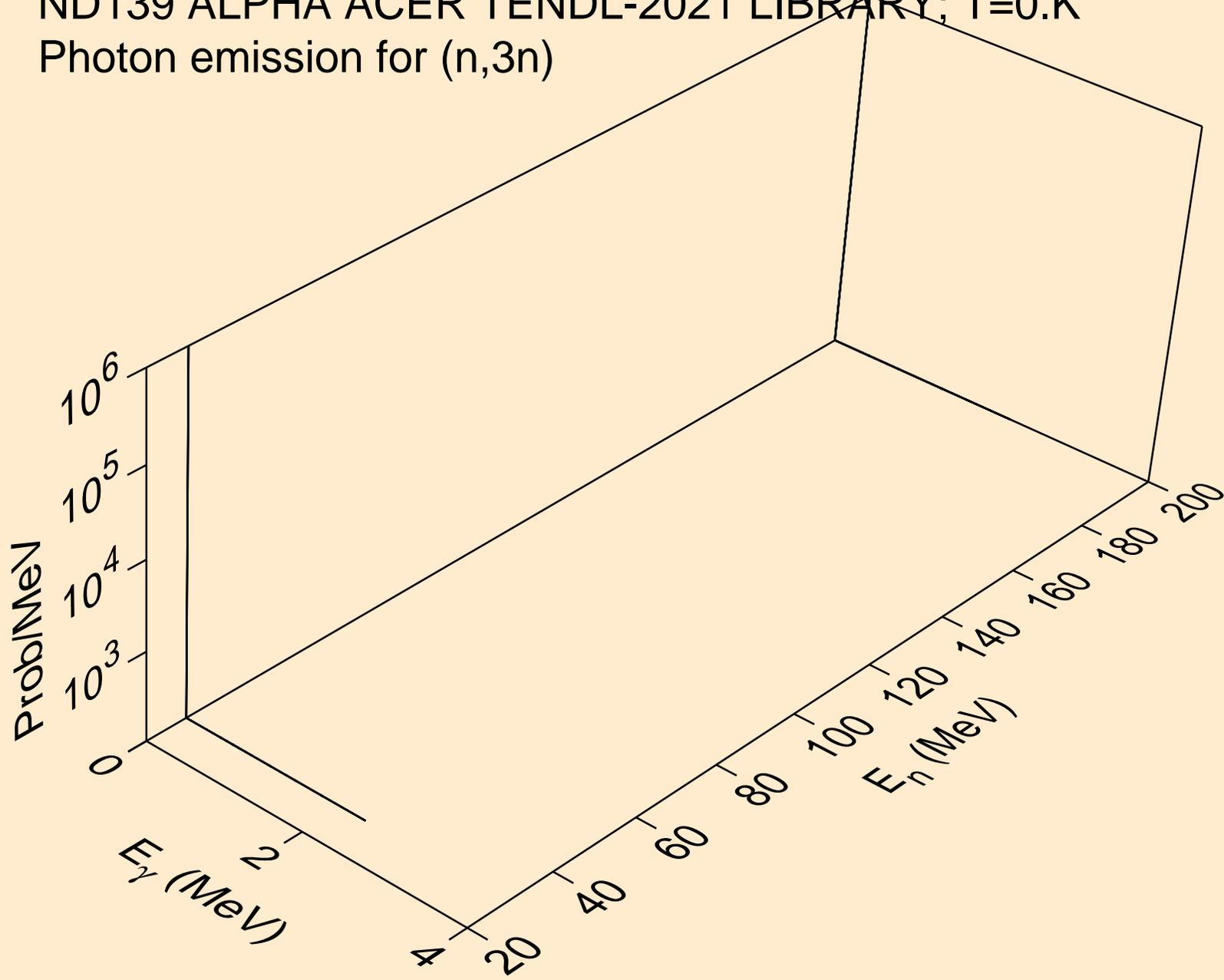
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Photon emission for (n,x)



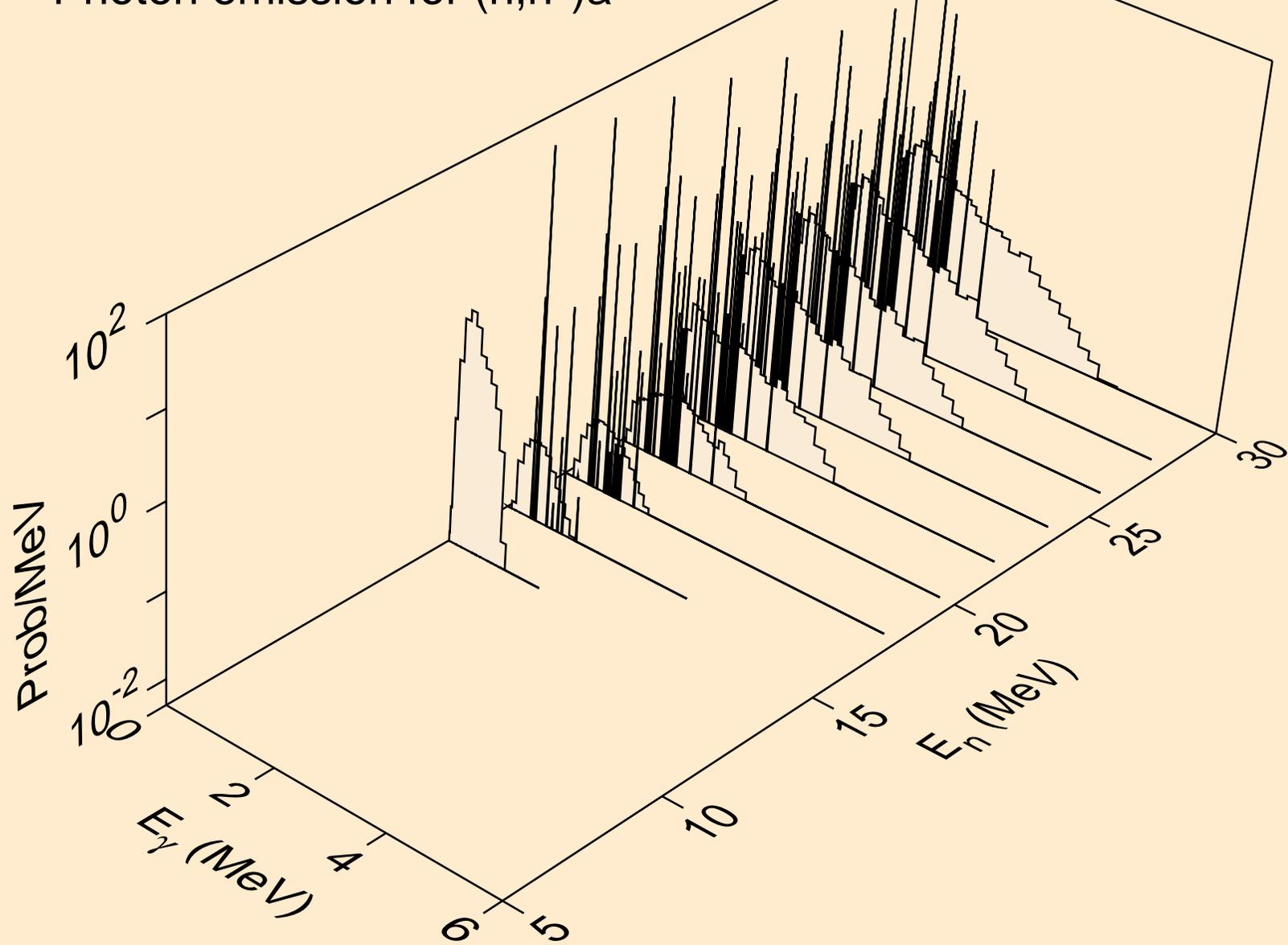
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Photon emission for (n,2n)



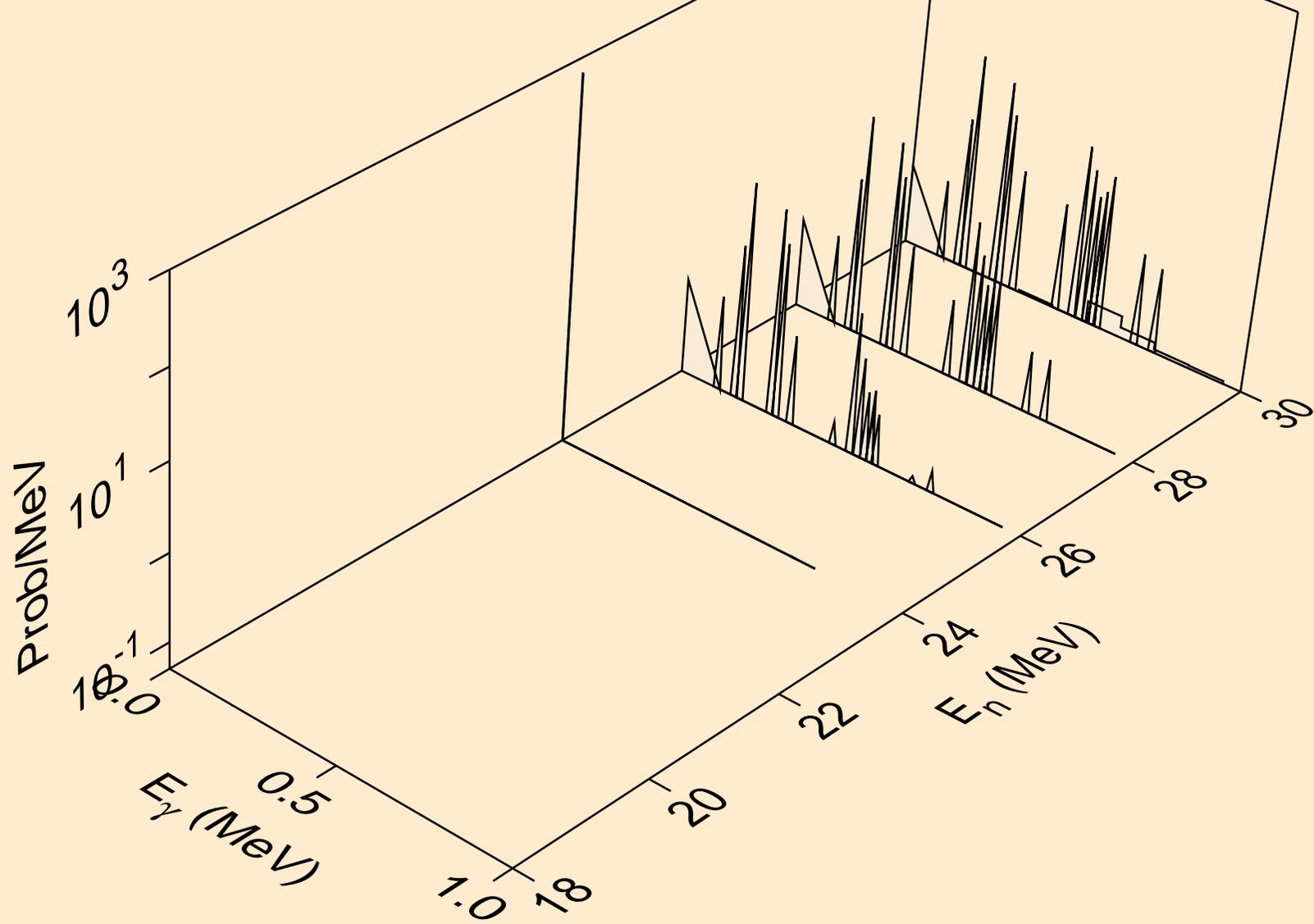
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Photon emission for (n,3n)



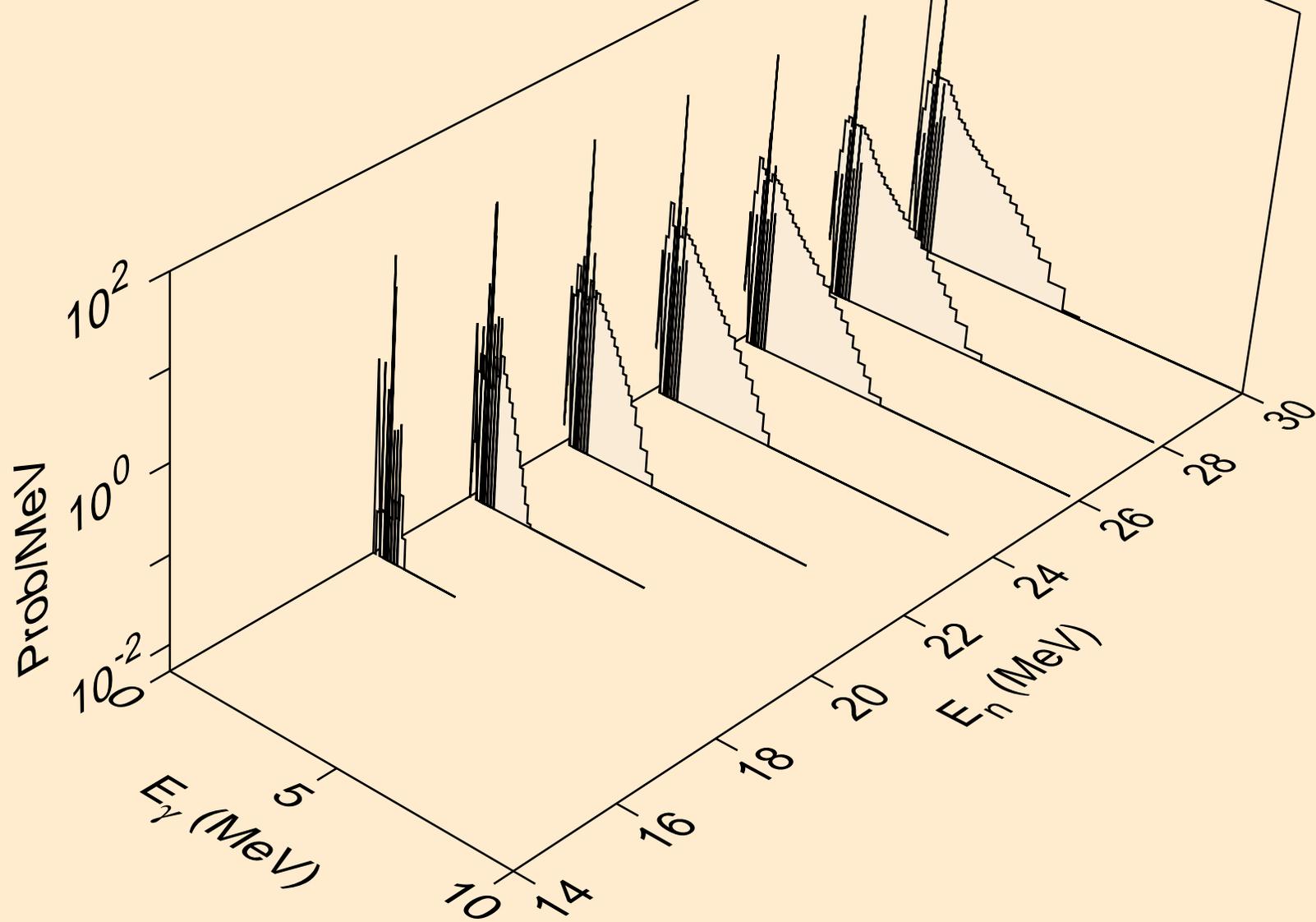
ND139 ALPHA ACER TENDL-2021 LIBRARY; T=0.K  
Photon emission for (n,n\*)a



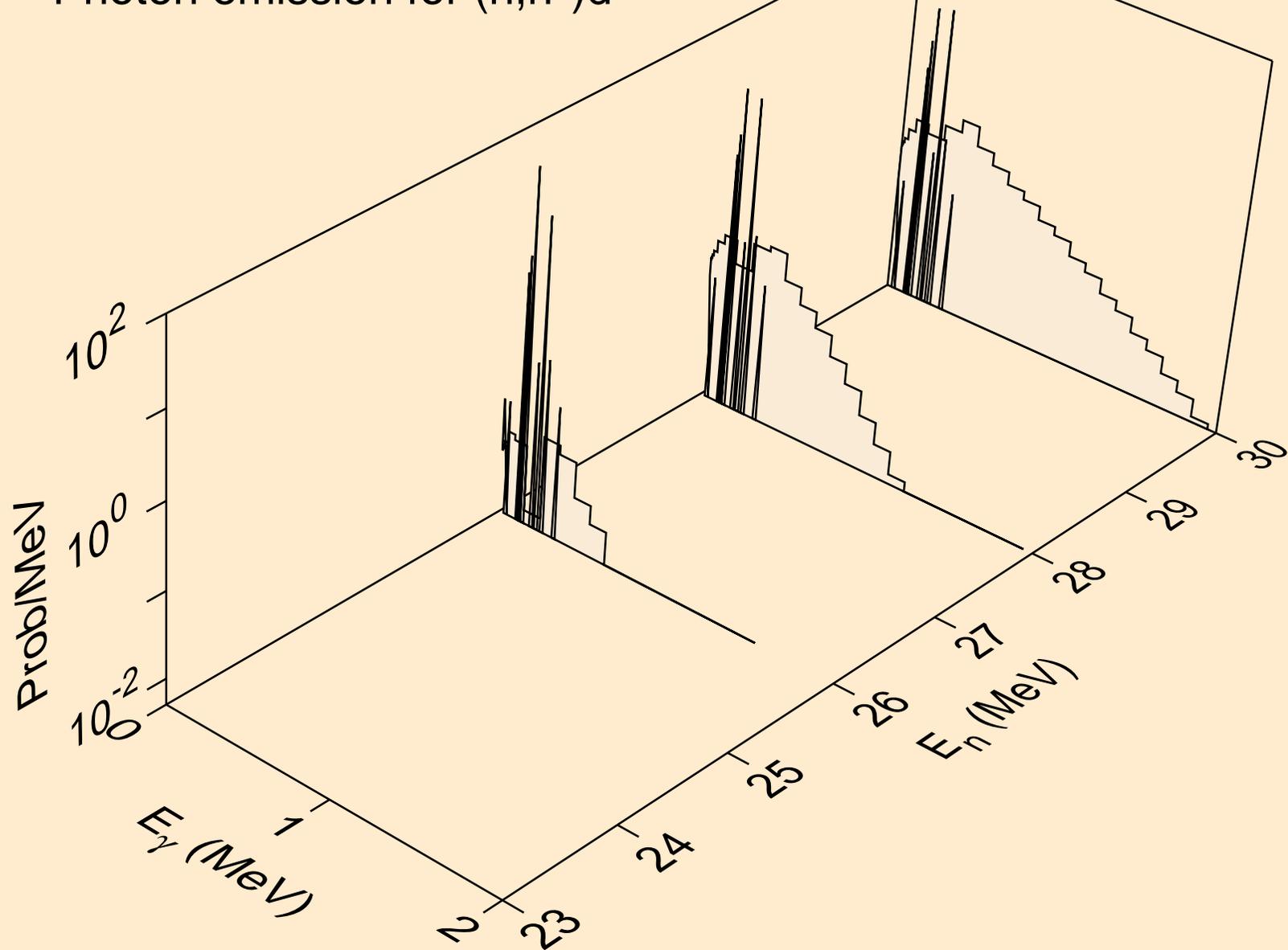
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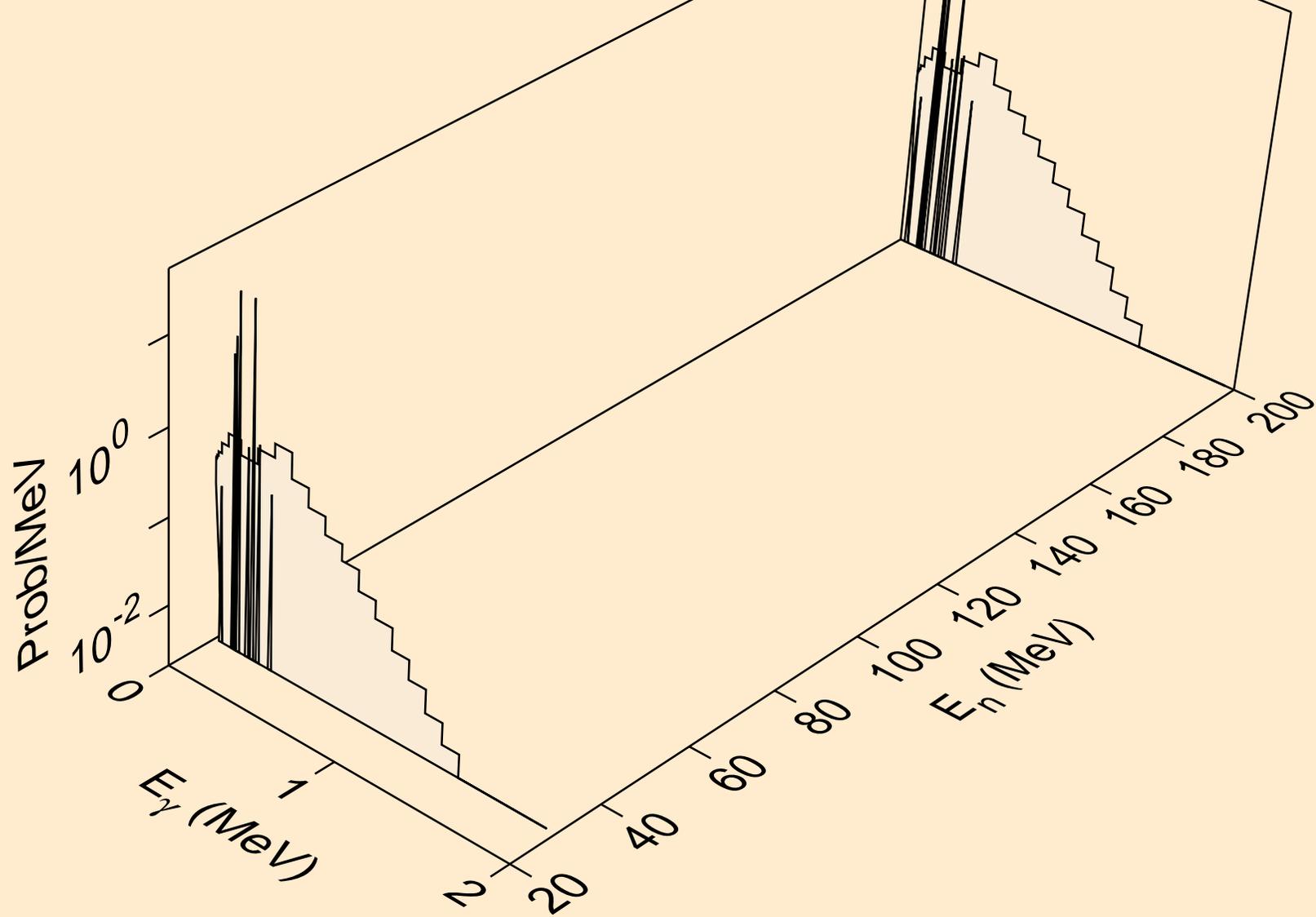
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Photon emission for (n,n\*)p



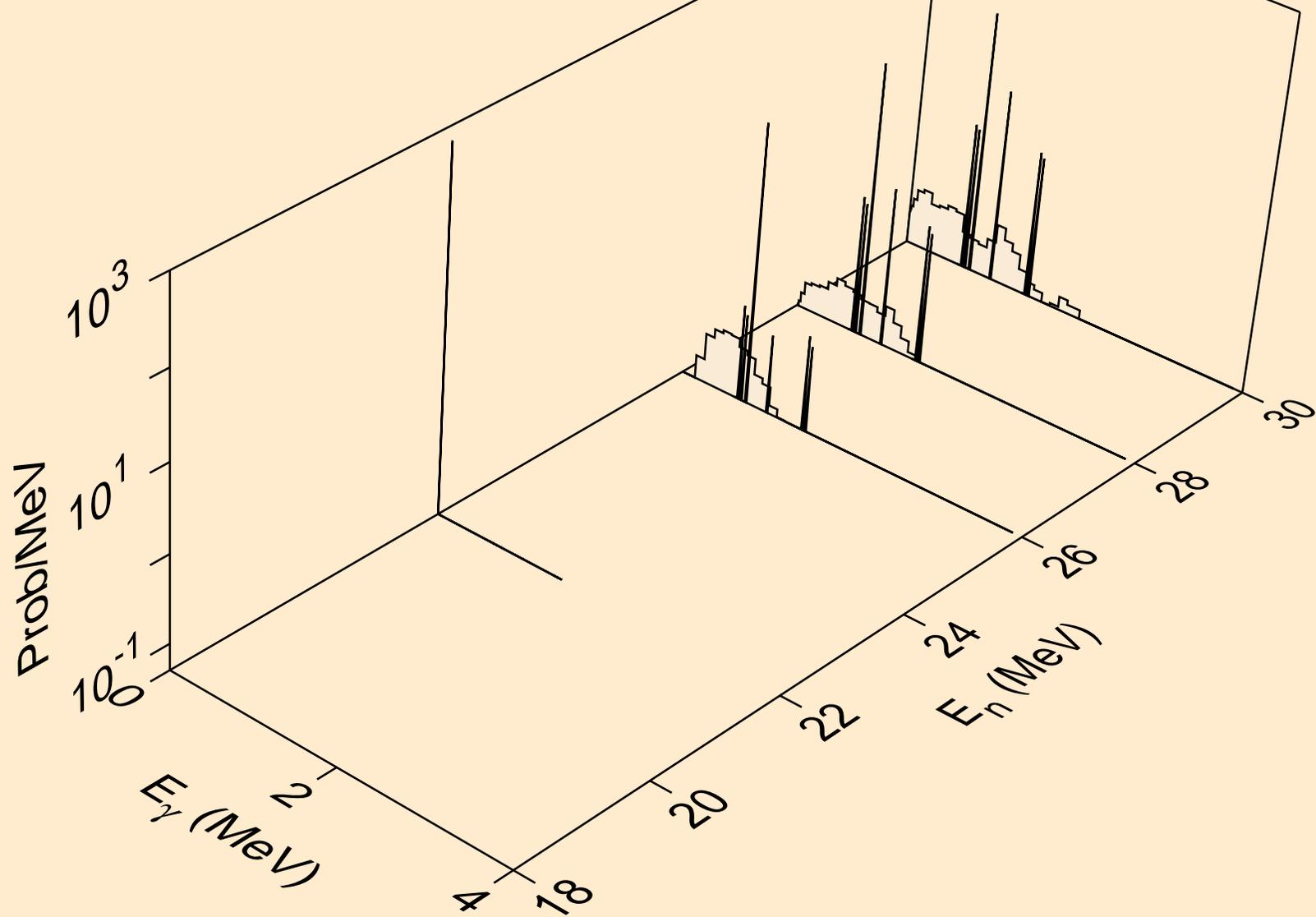
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Photon emission for (n,n\*)d



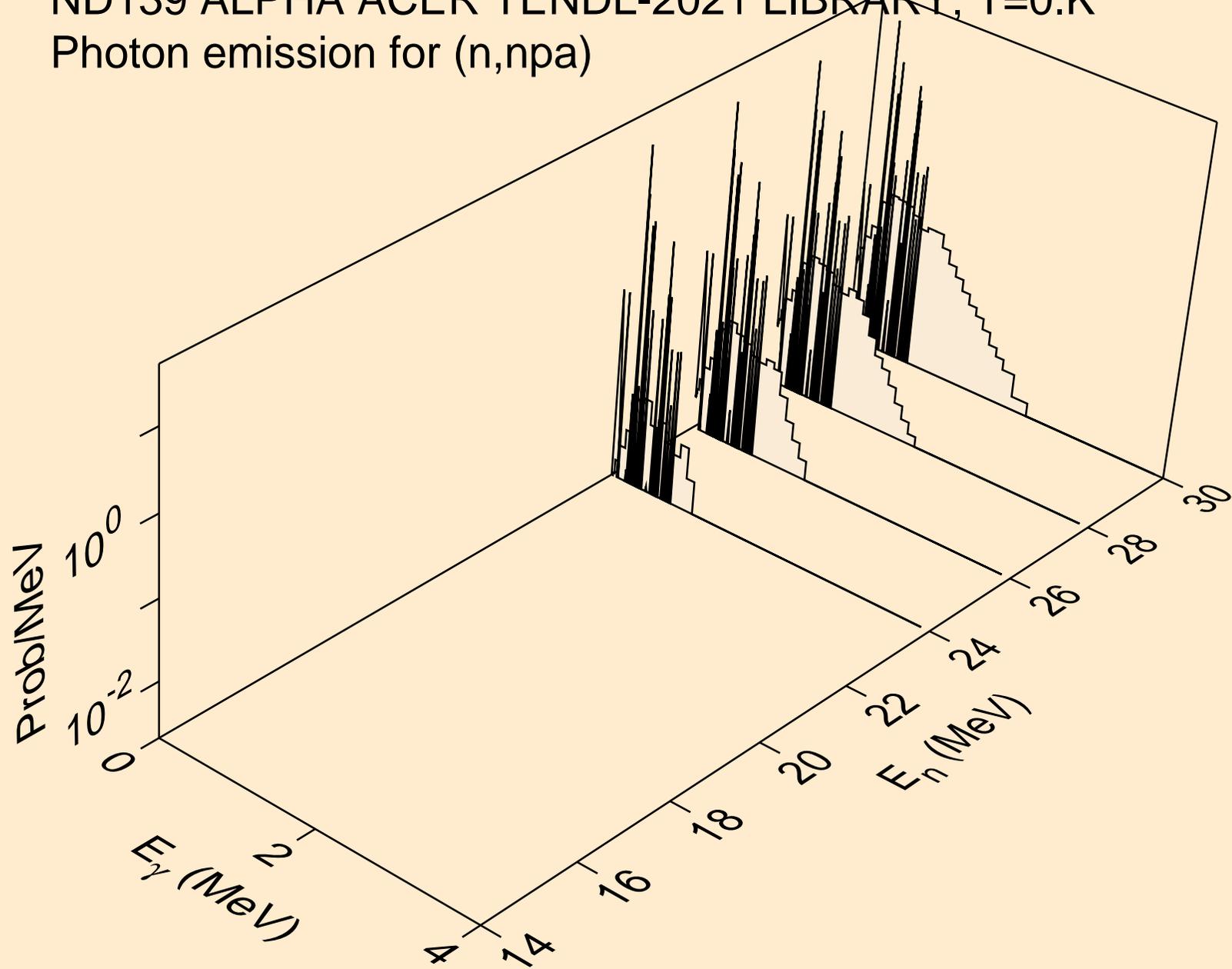
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Photon emission for (n,2np)



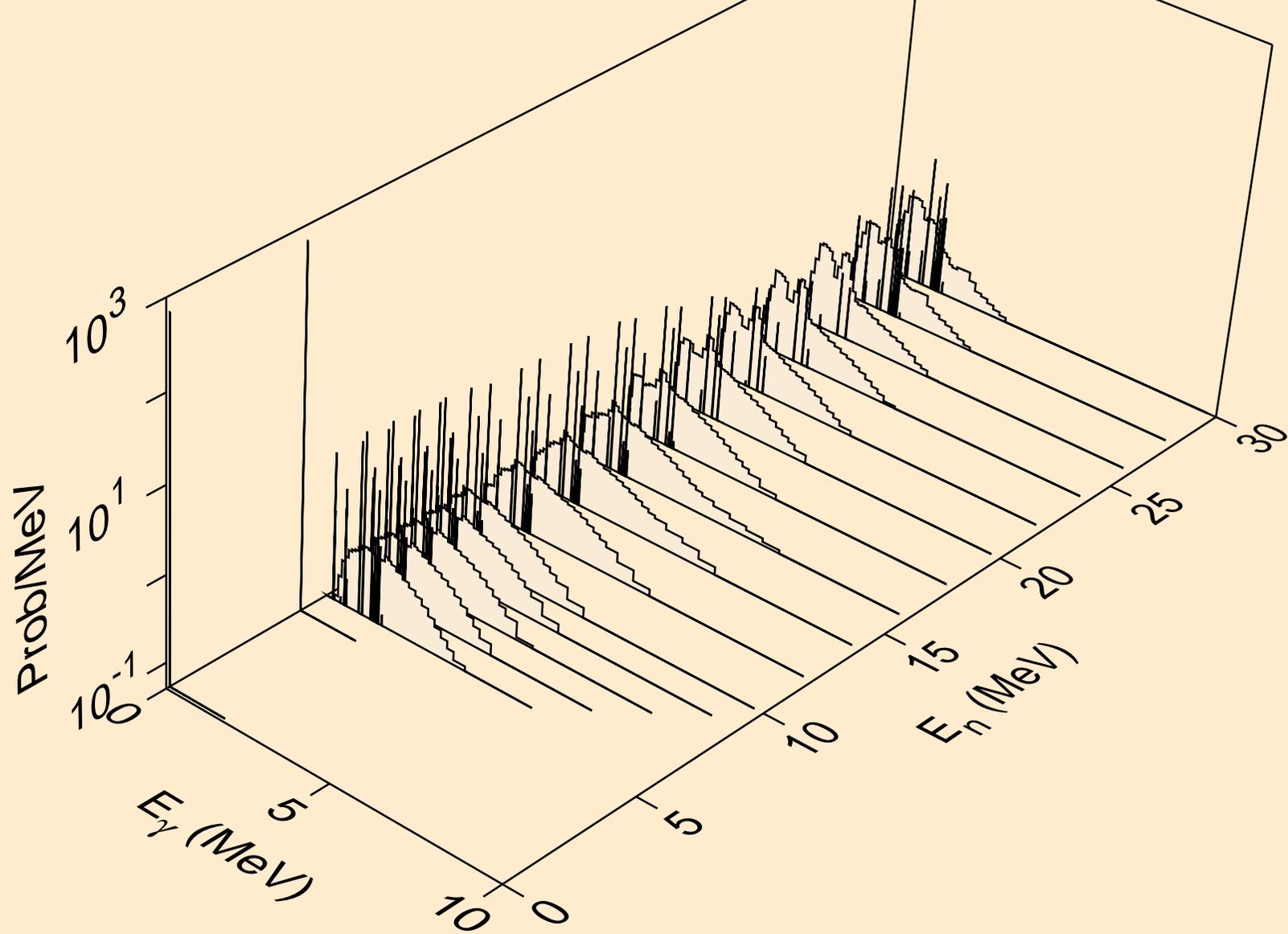
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Photon emission for (n,2np)



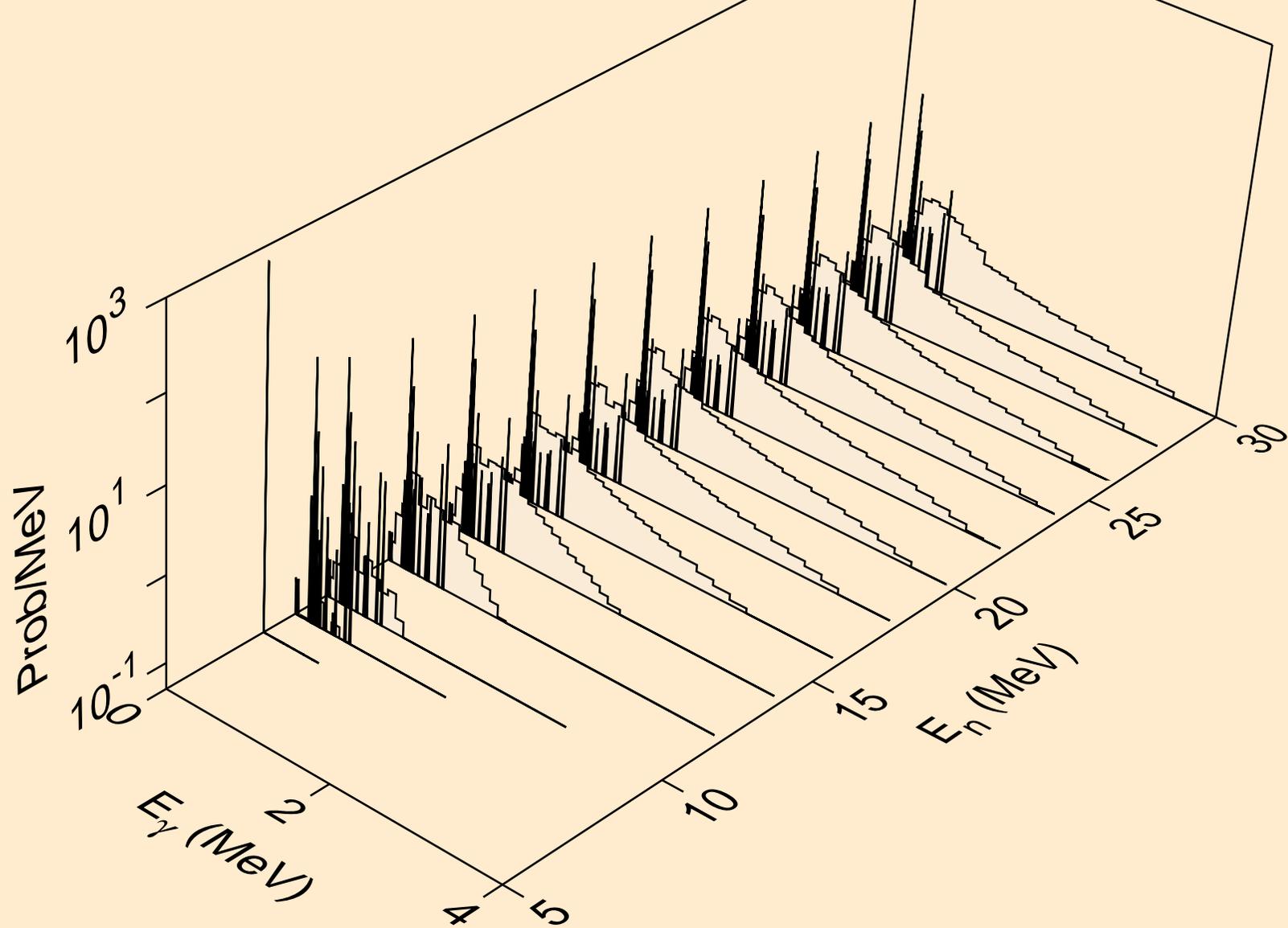
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Photon emission for (n,npa)



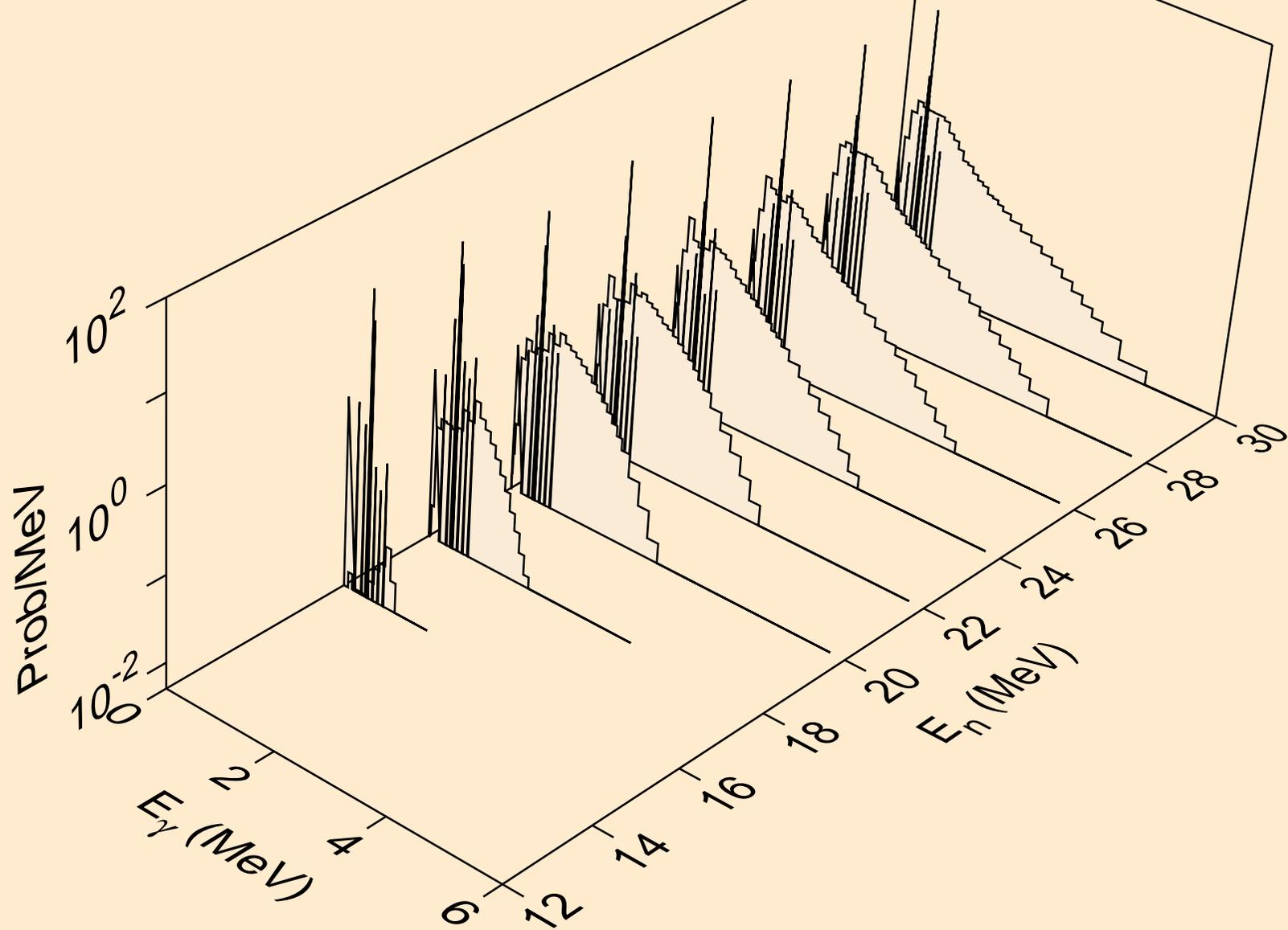
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Photon emission for (n,gma)



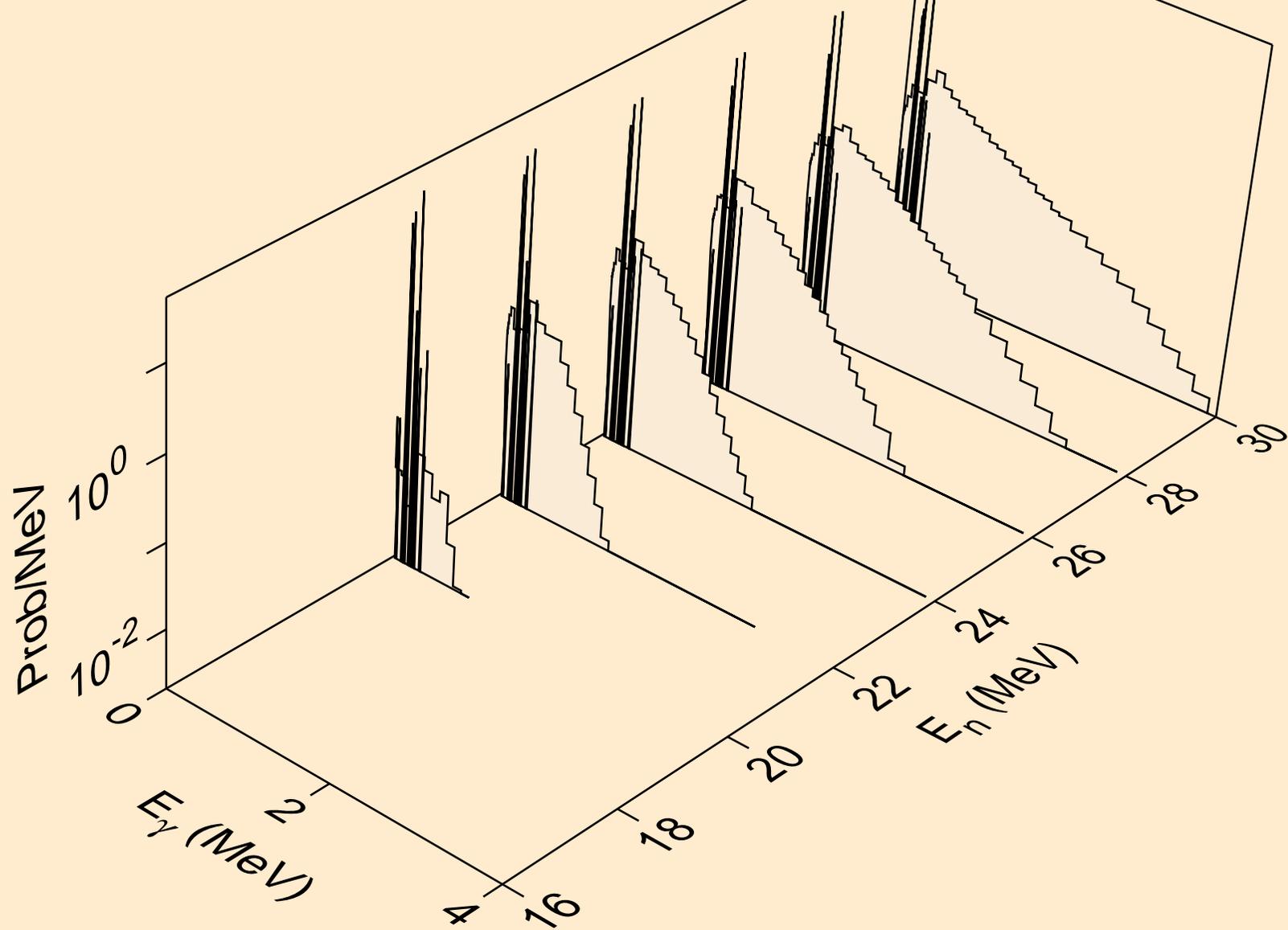
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Photon emission for (n,p)



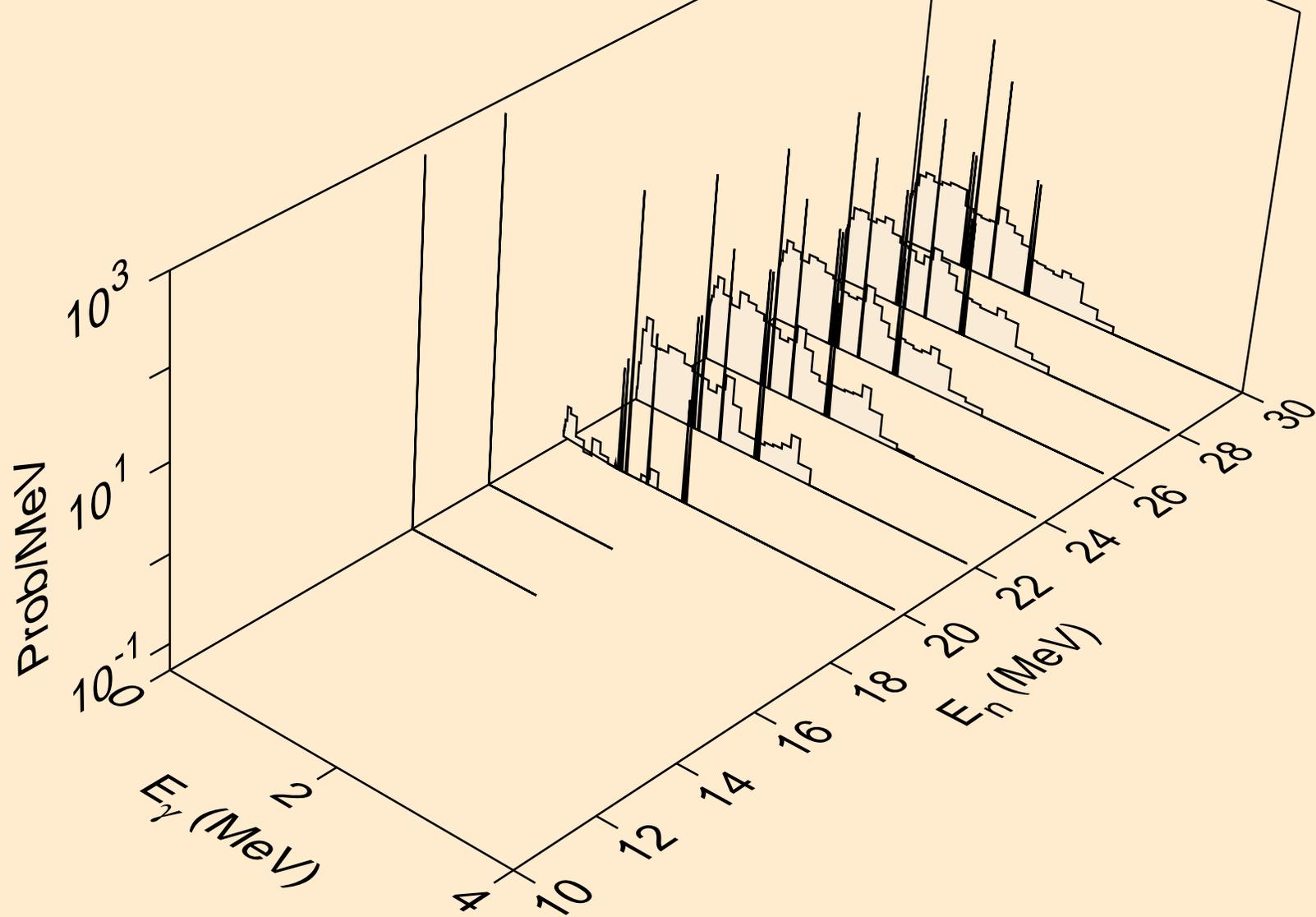
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Photon emission for (n,d)



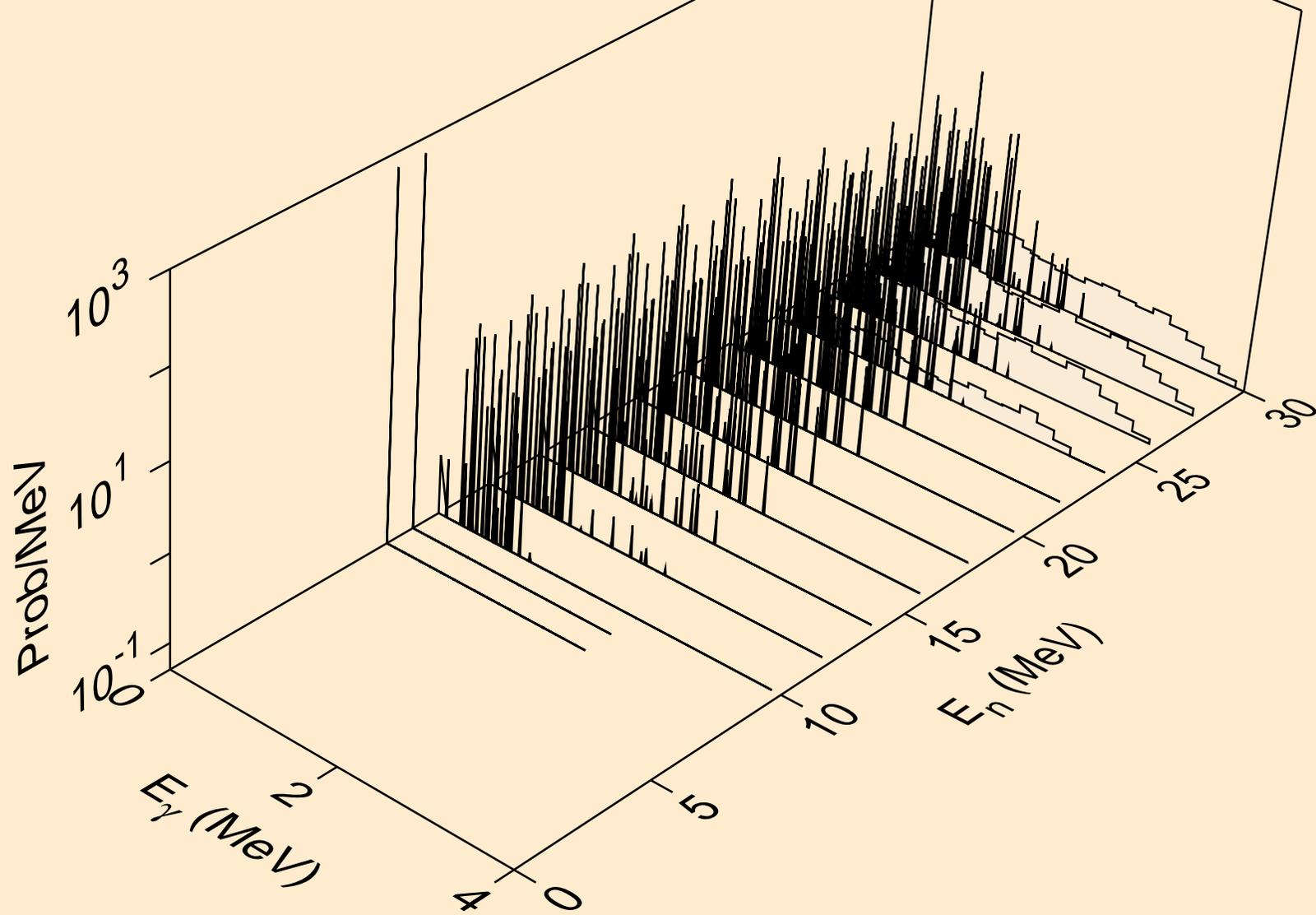
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Photon emission for (n,t)



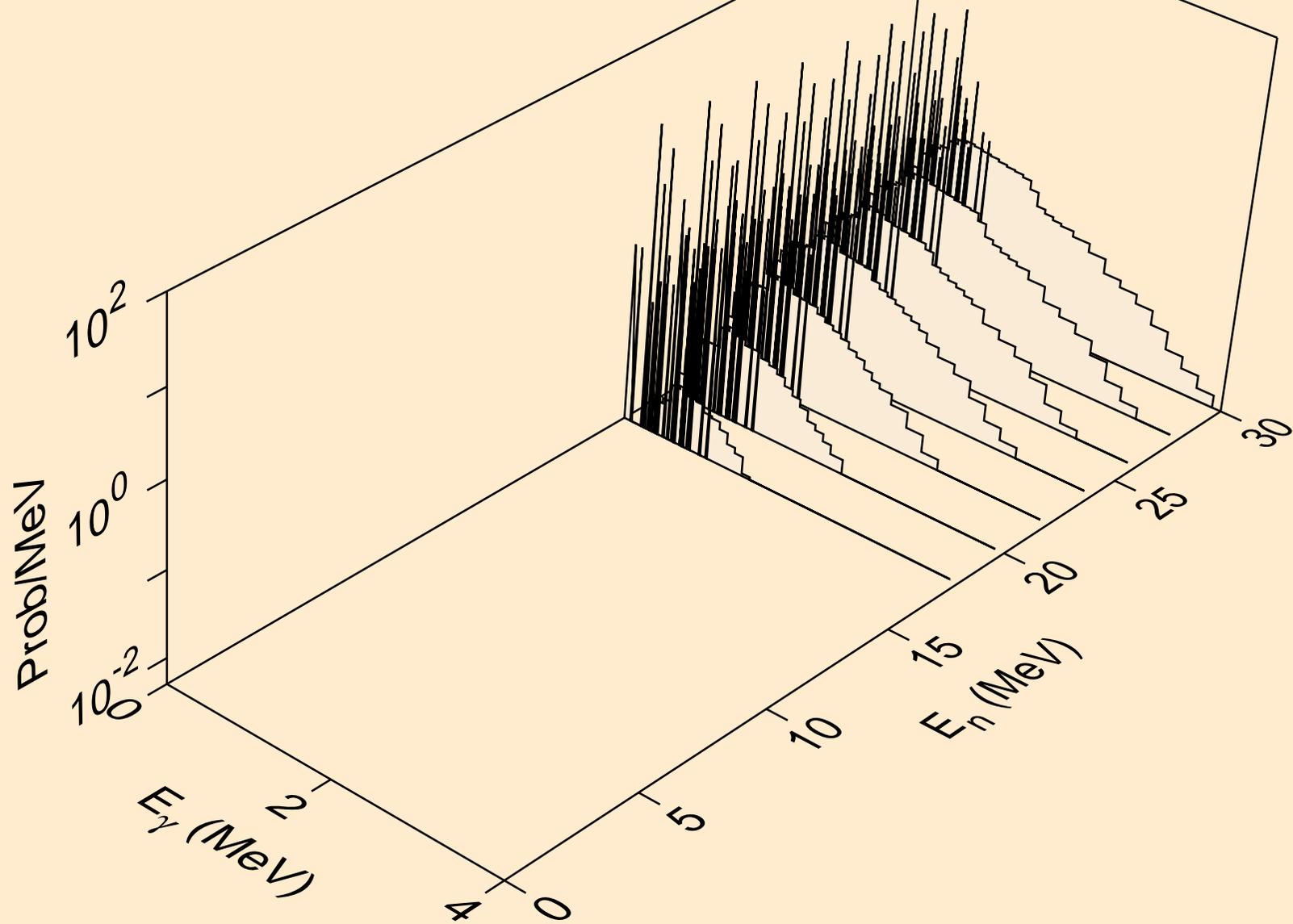
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Photon emission for (n,he3)



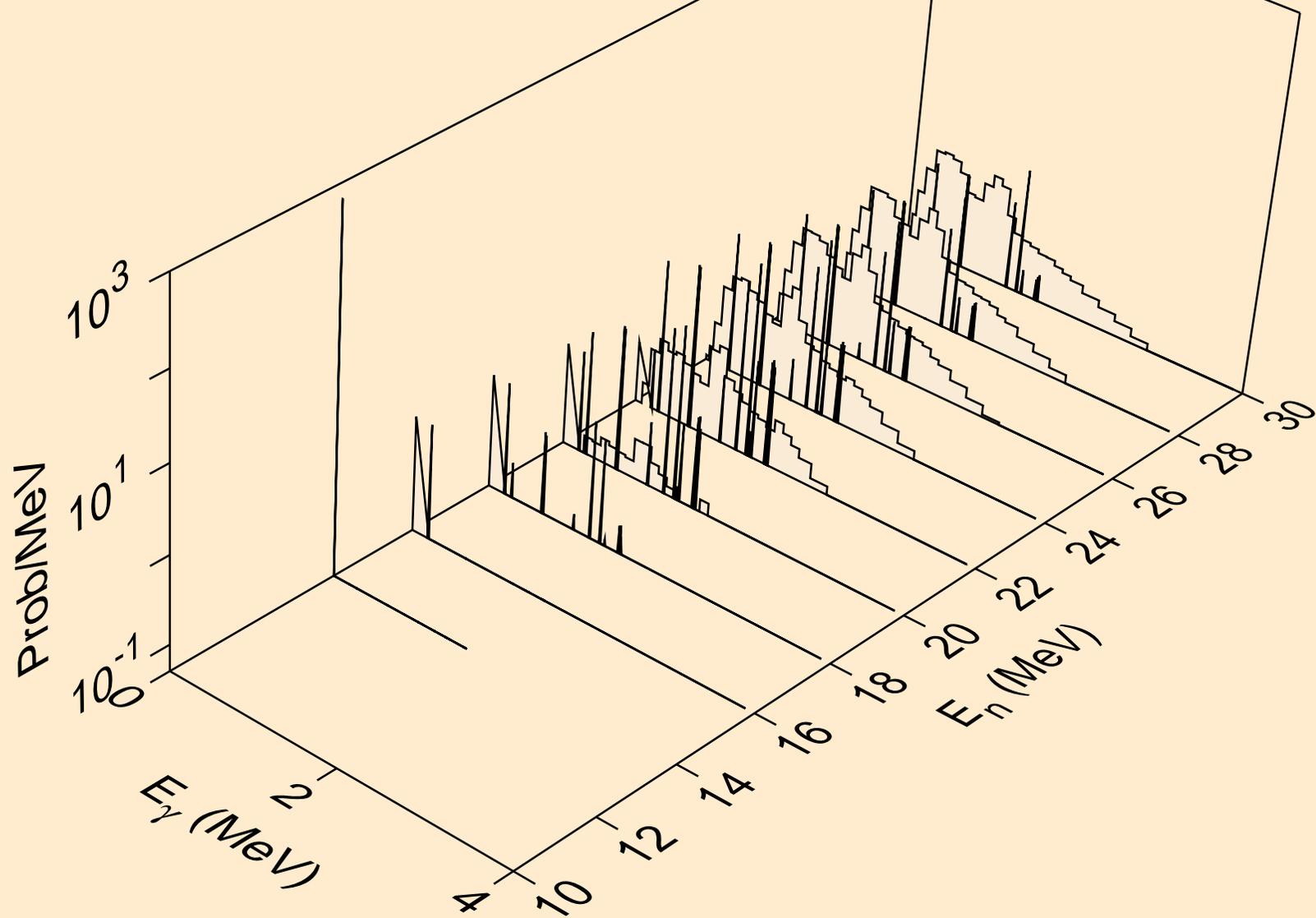
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Photon emission for inelastic



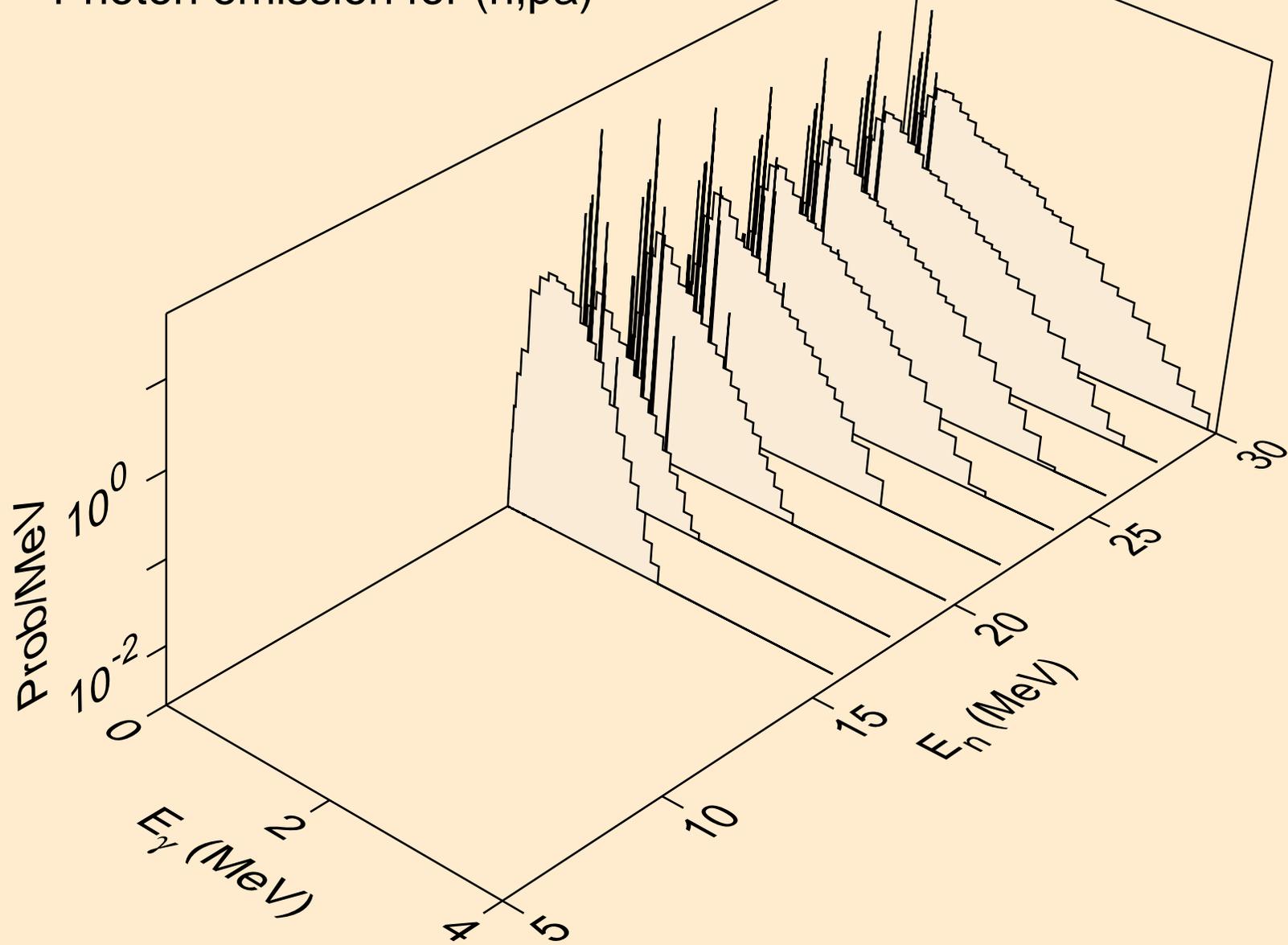
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Photon emission for (n,2a)



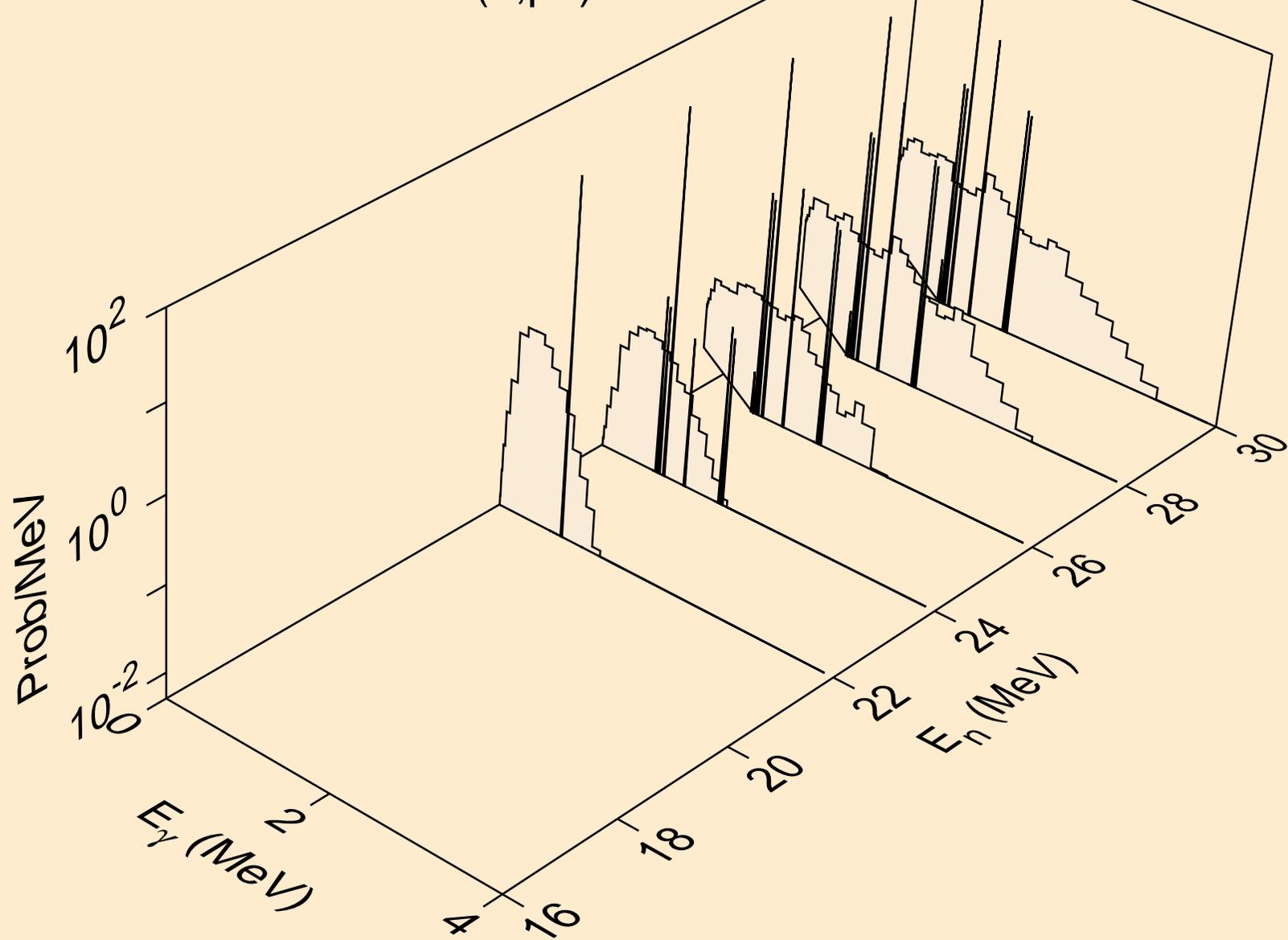
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Photon emission for (n,2p)



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Photon emission for (n,pa)

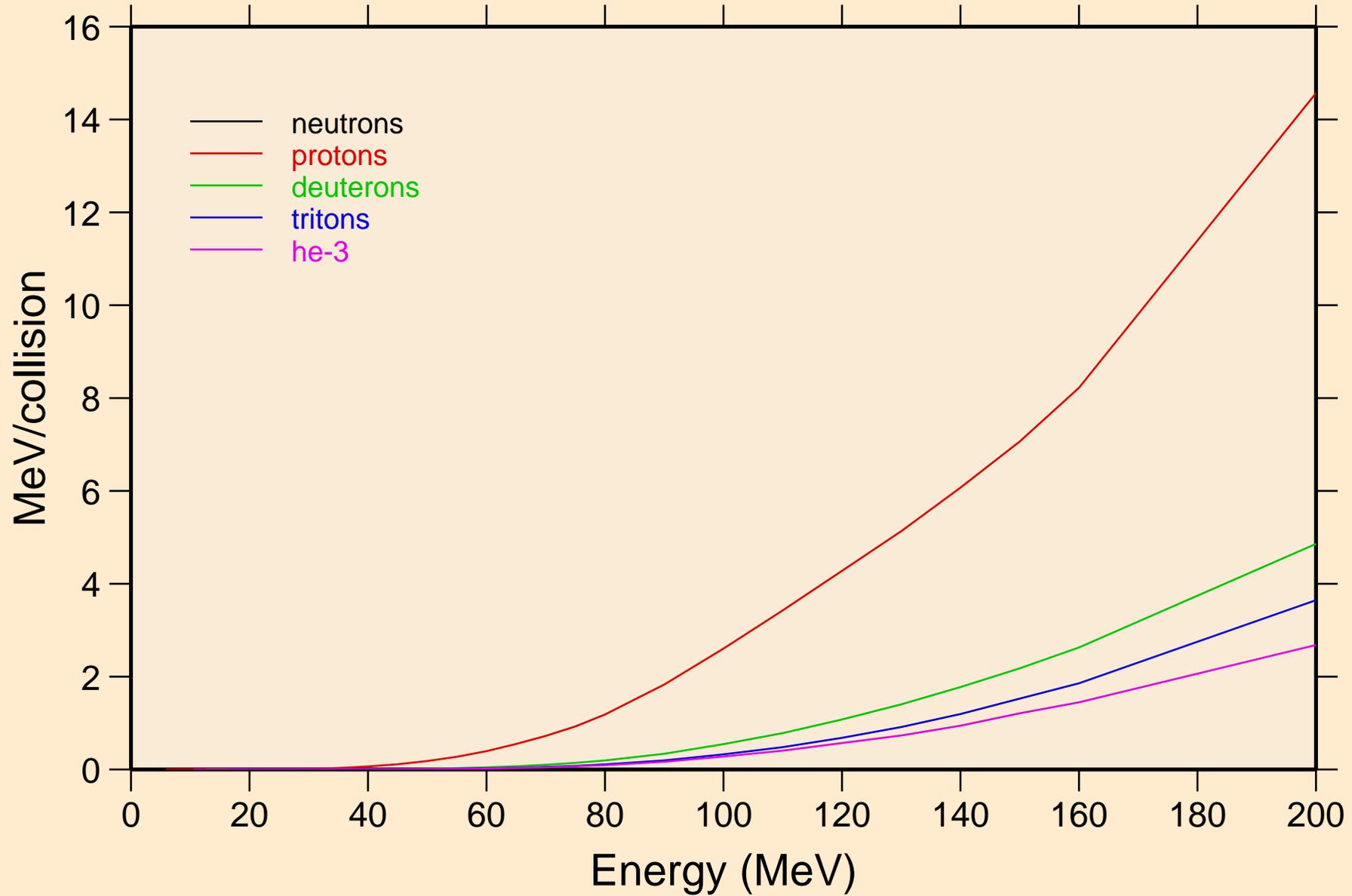


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Photon emission for (n,pd)

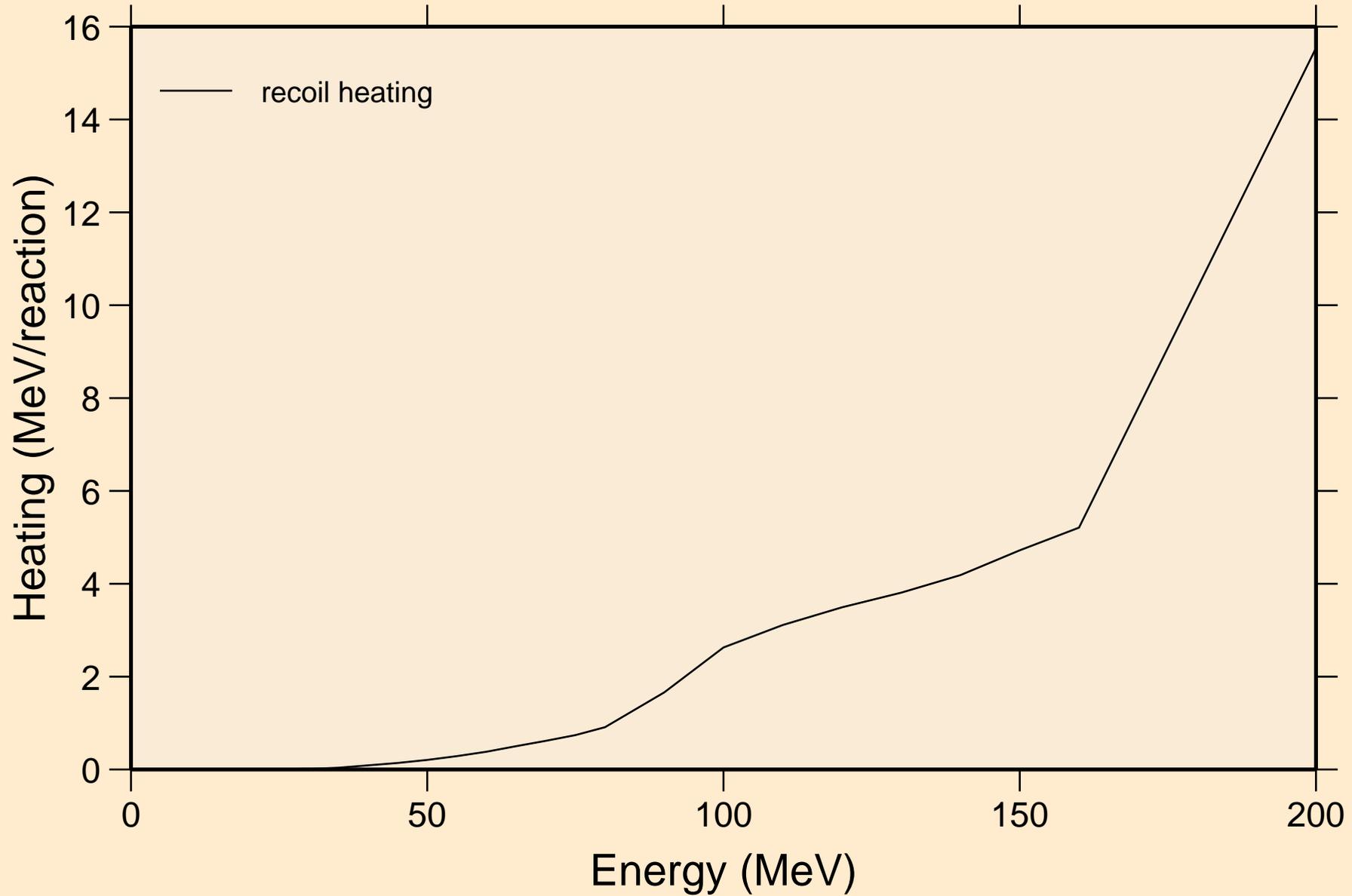


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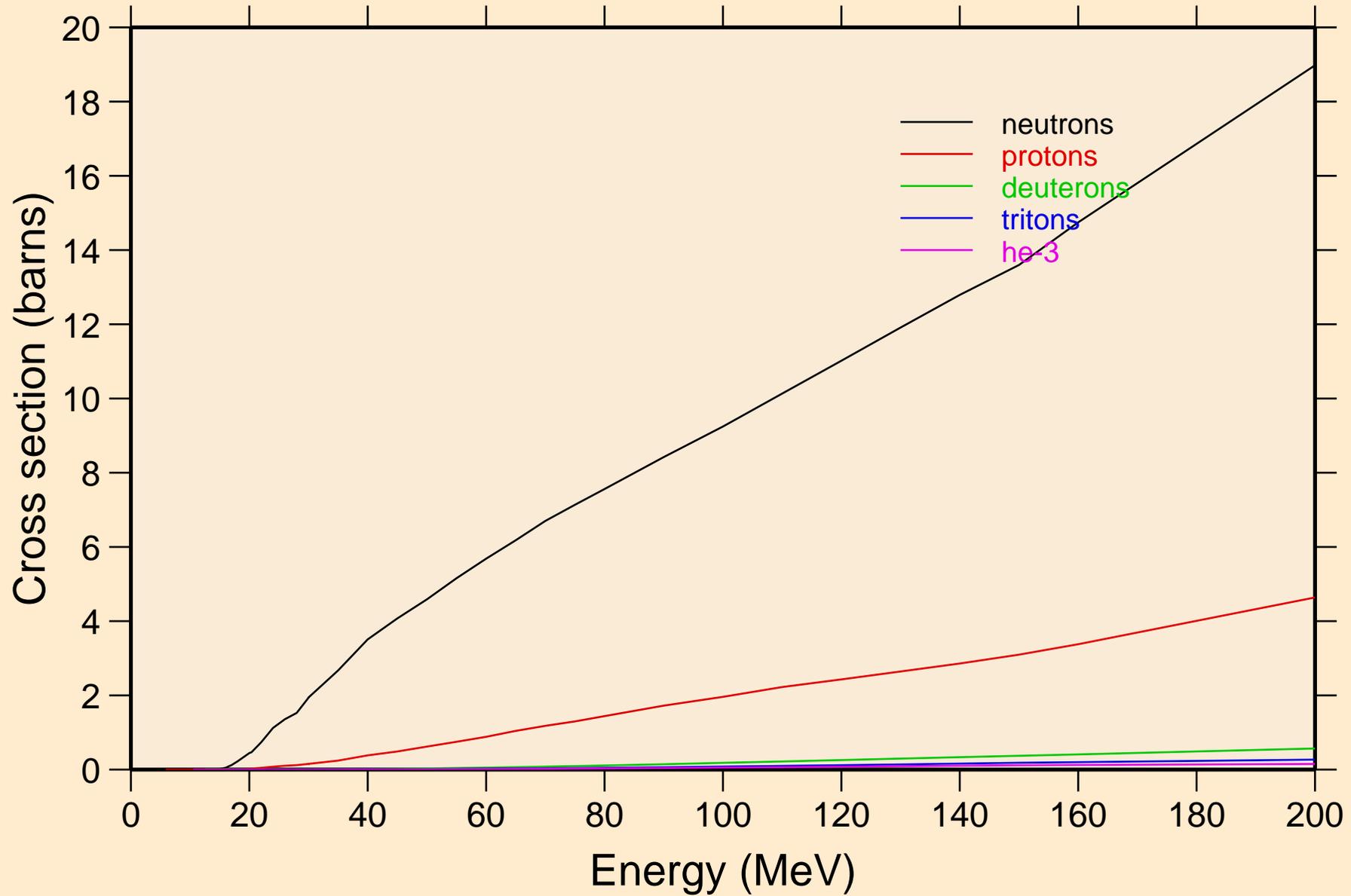
## Particle heating contributions



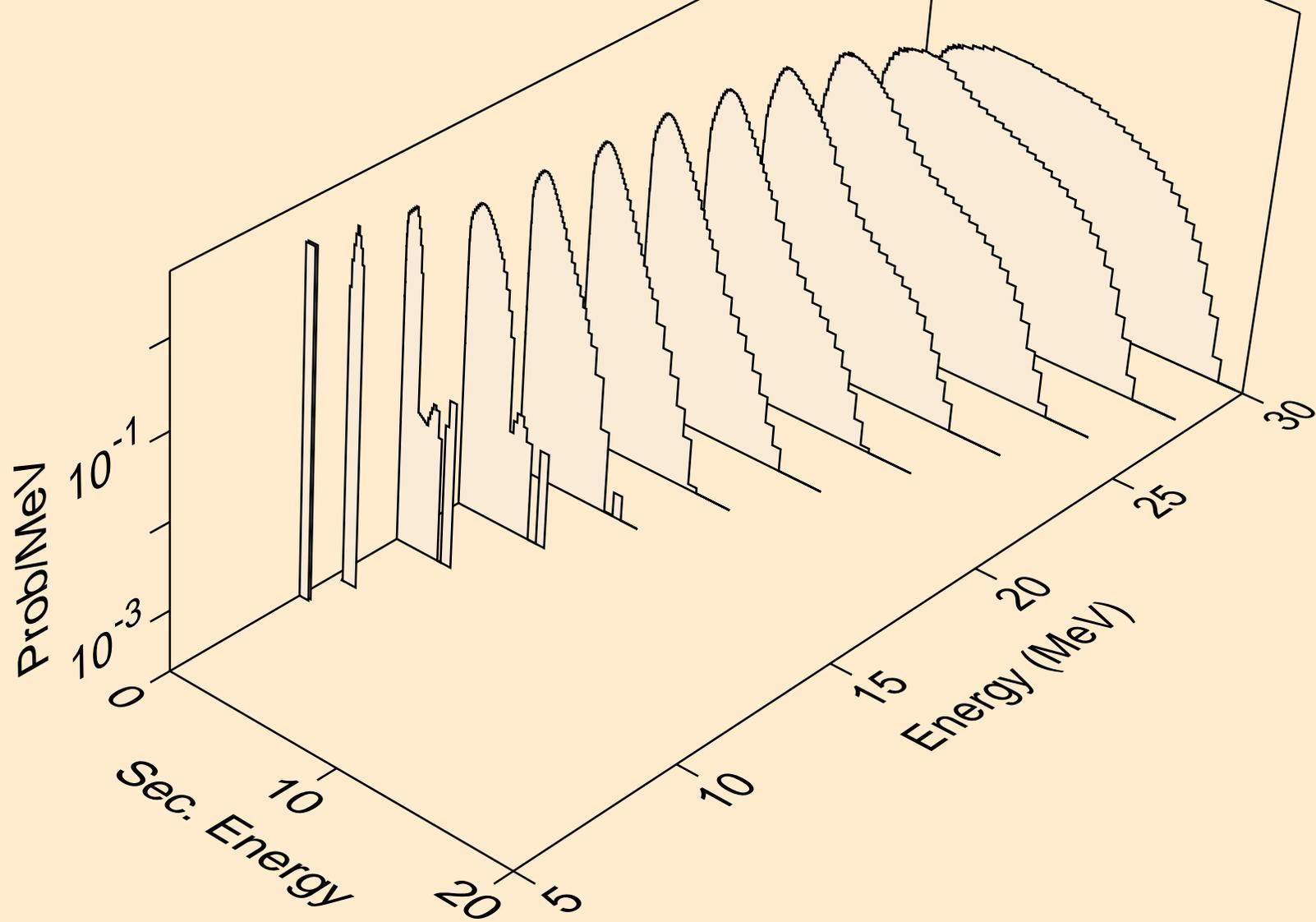
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Recoil Heating



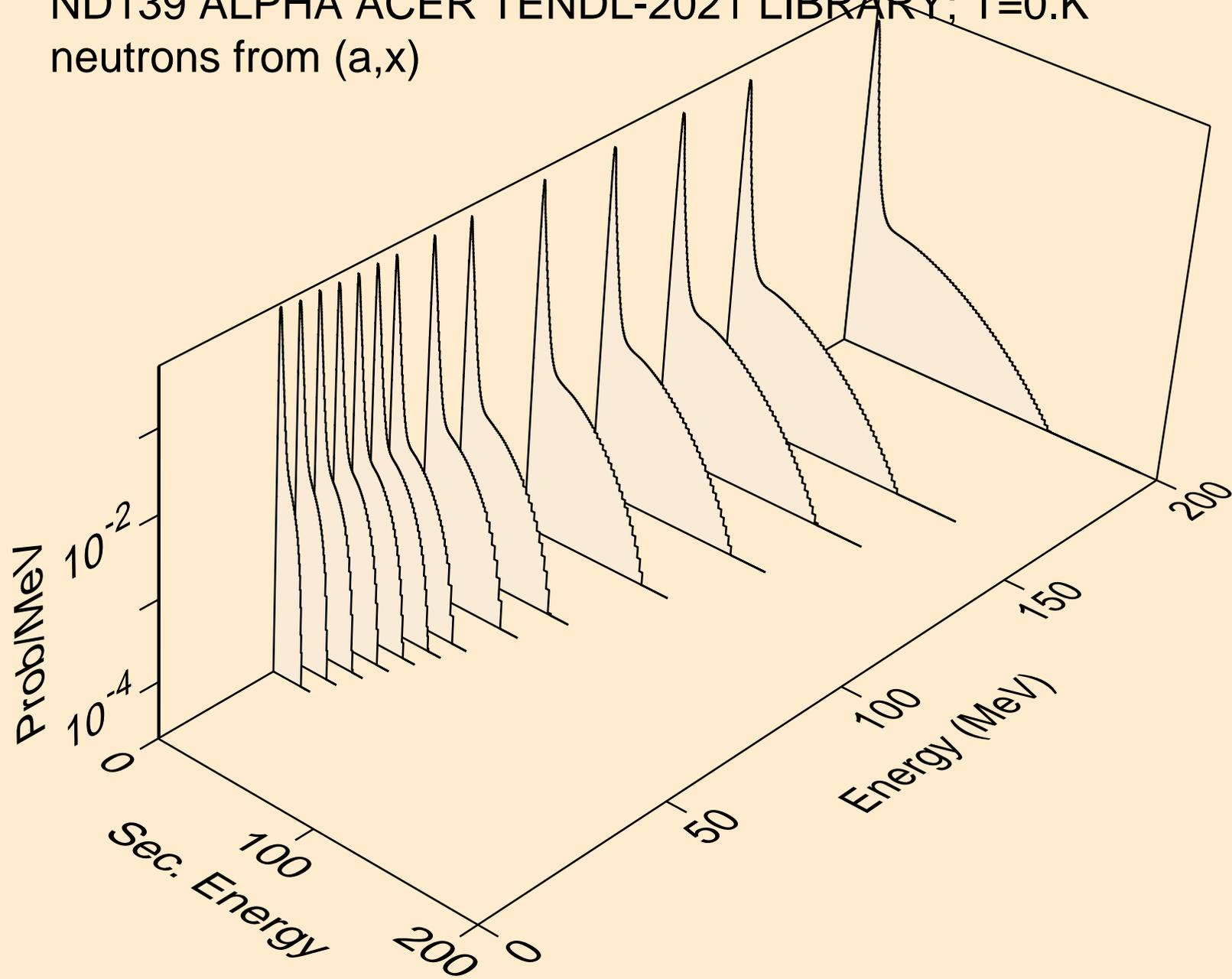
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Particle production cross sections



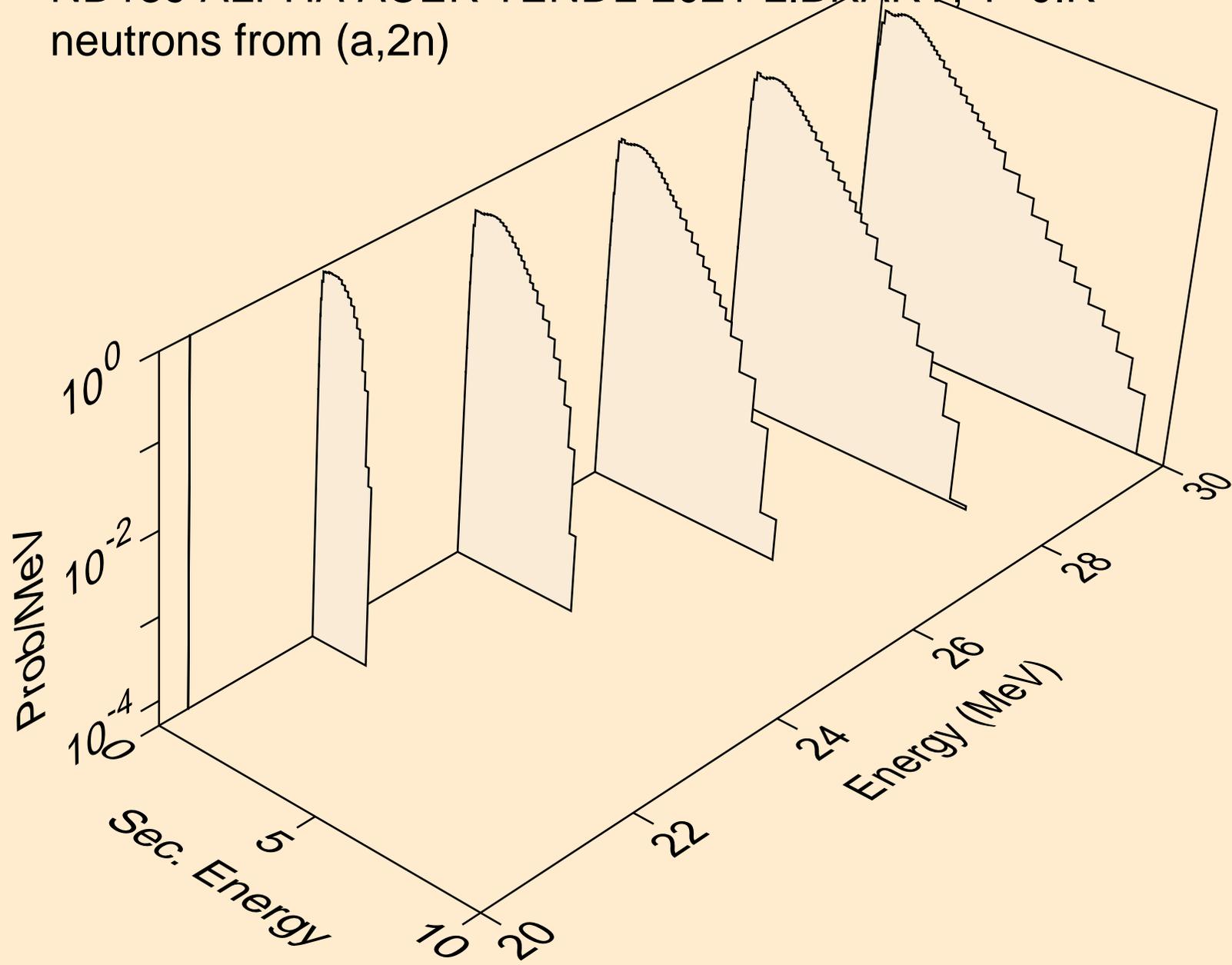
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neutrons from (a,n)



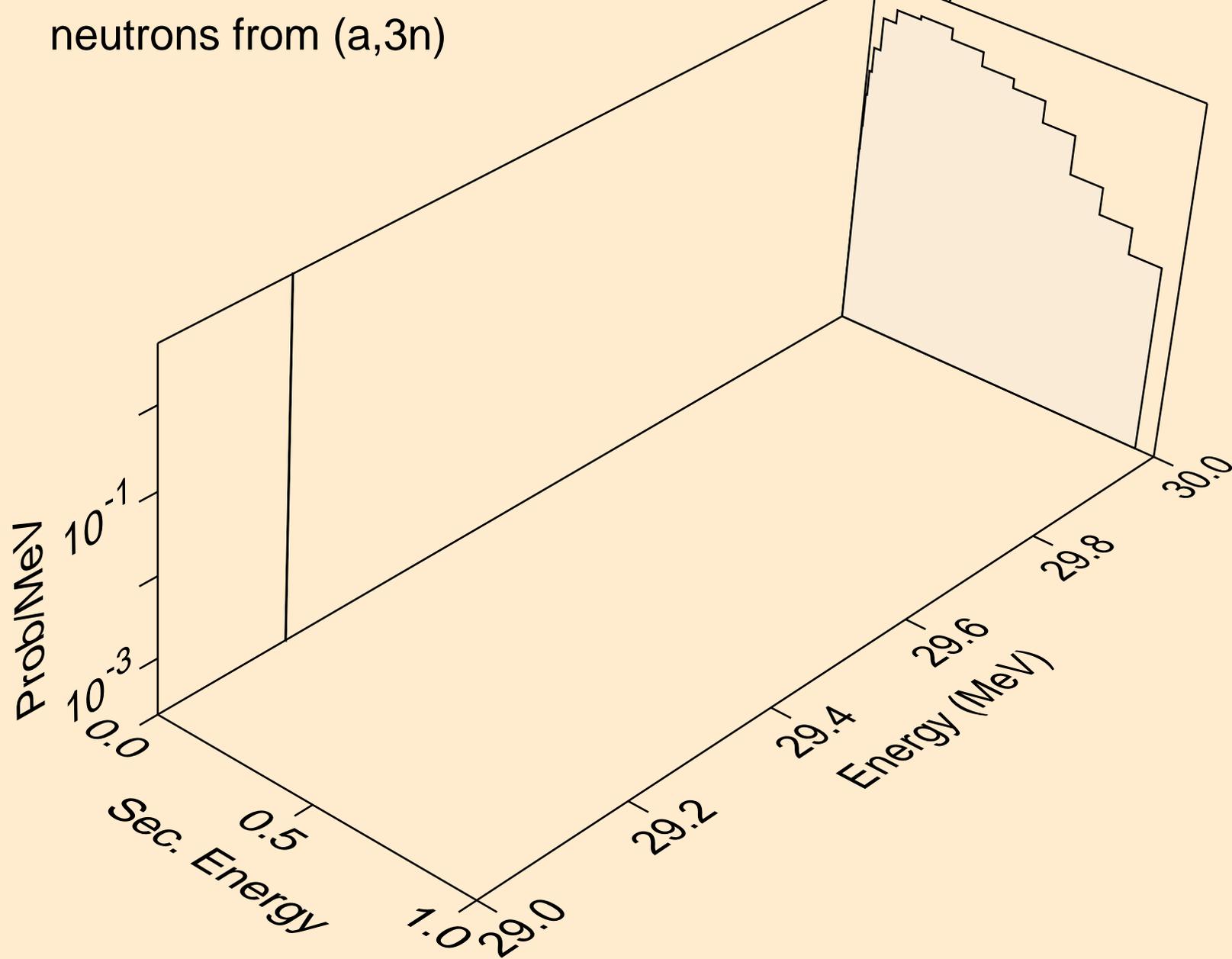
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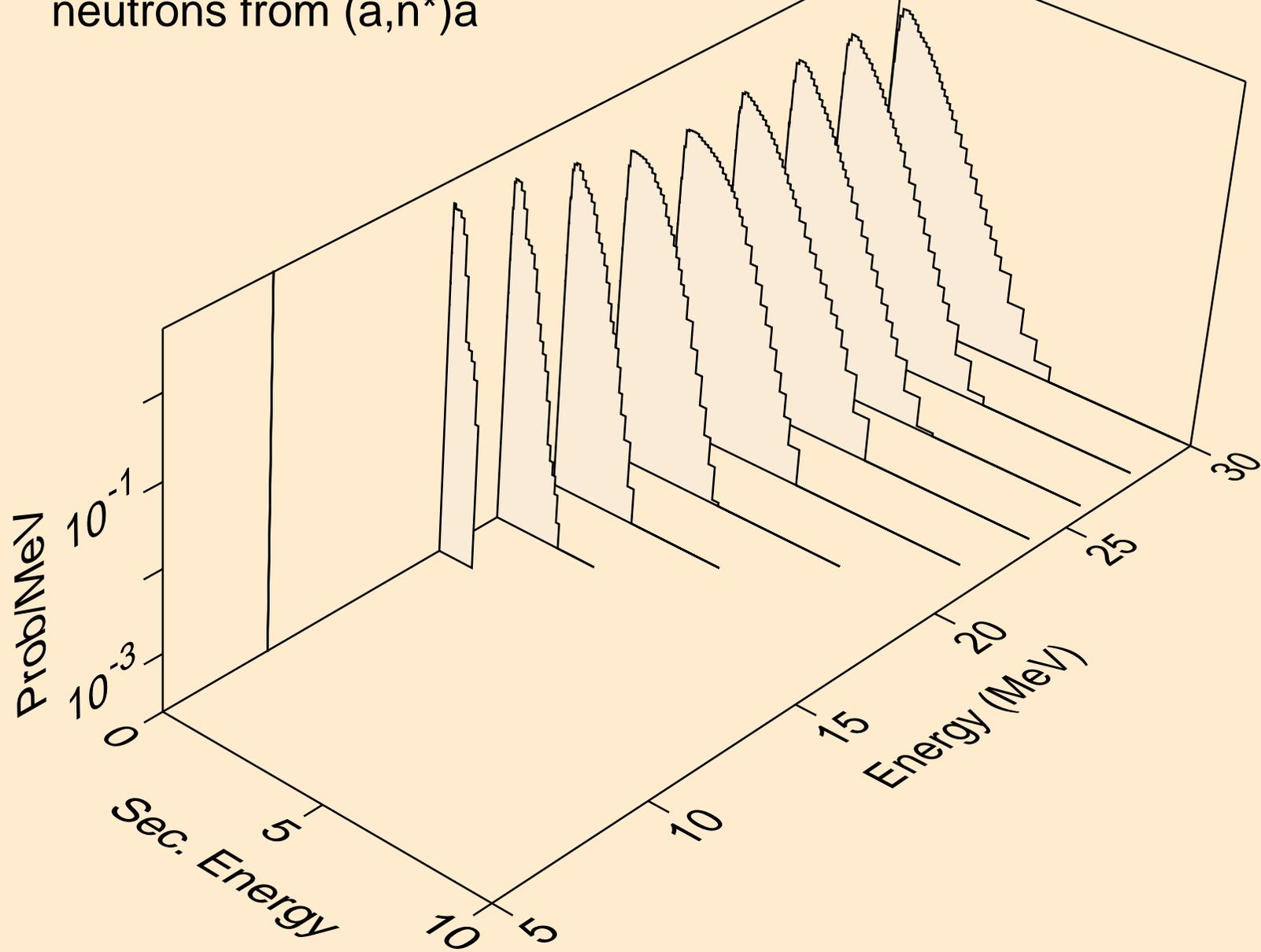
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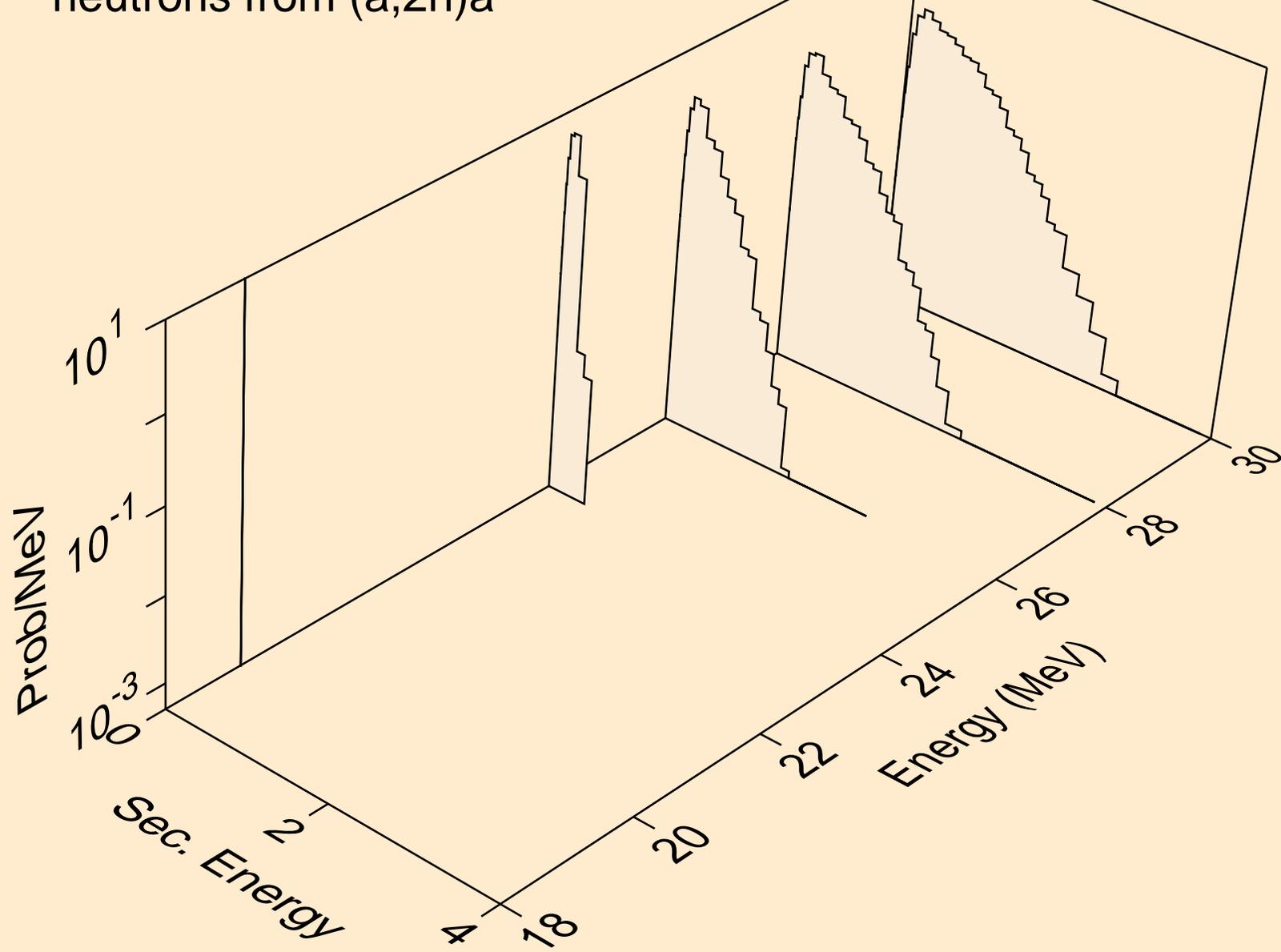
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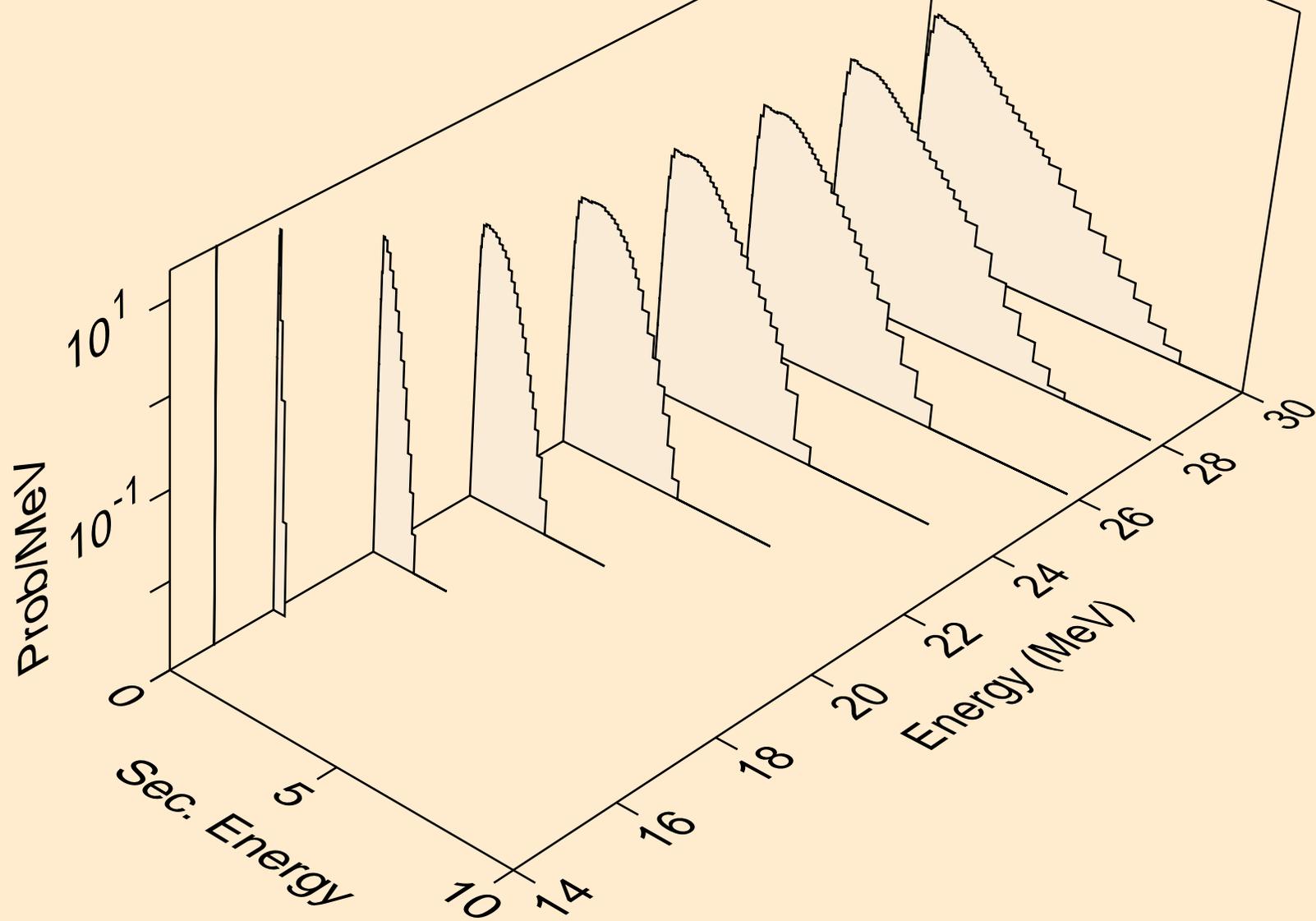
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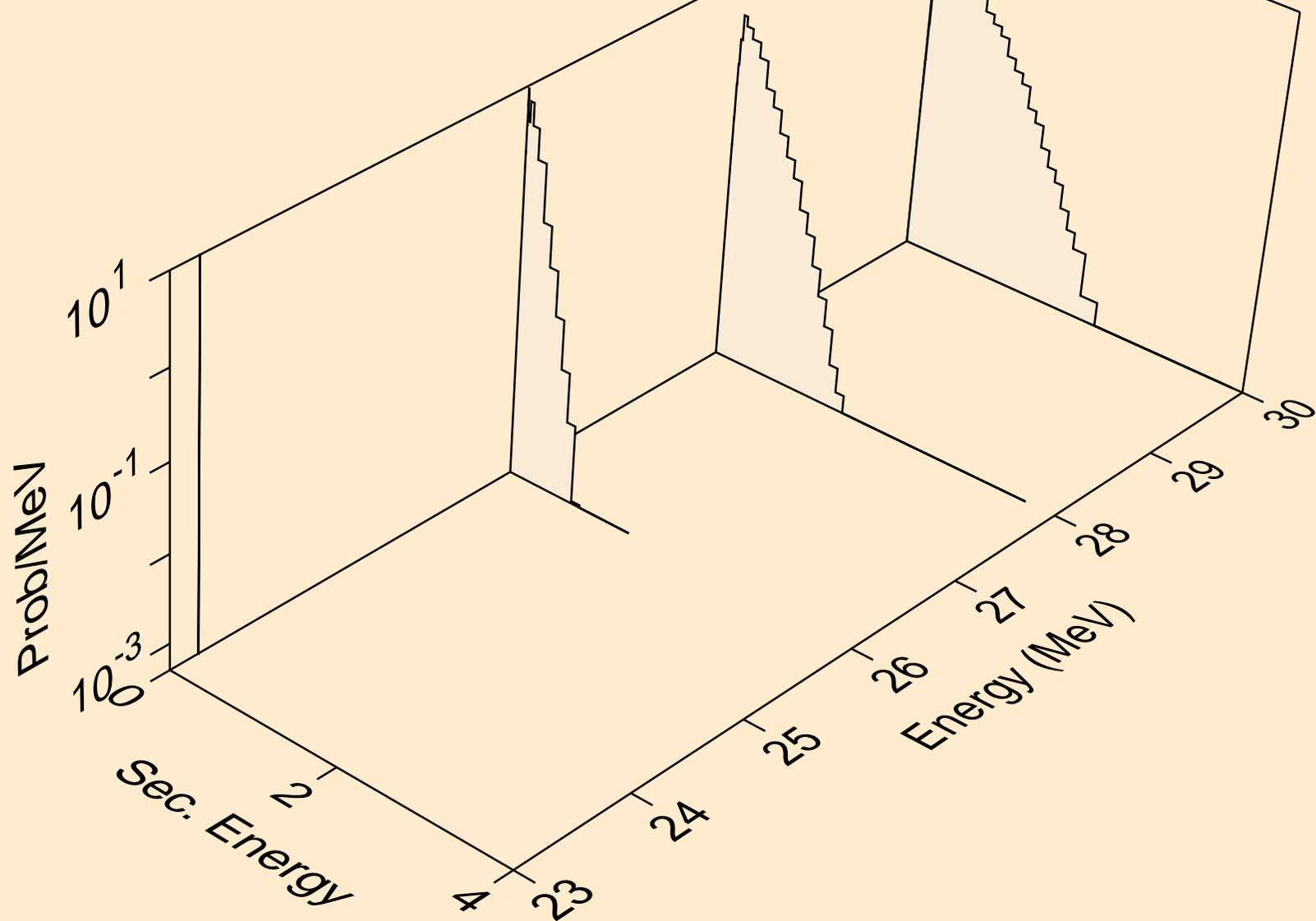
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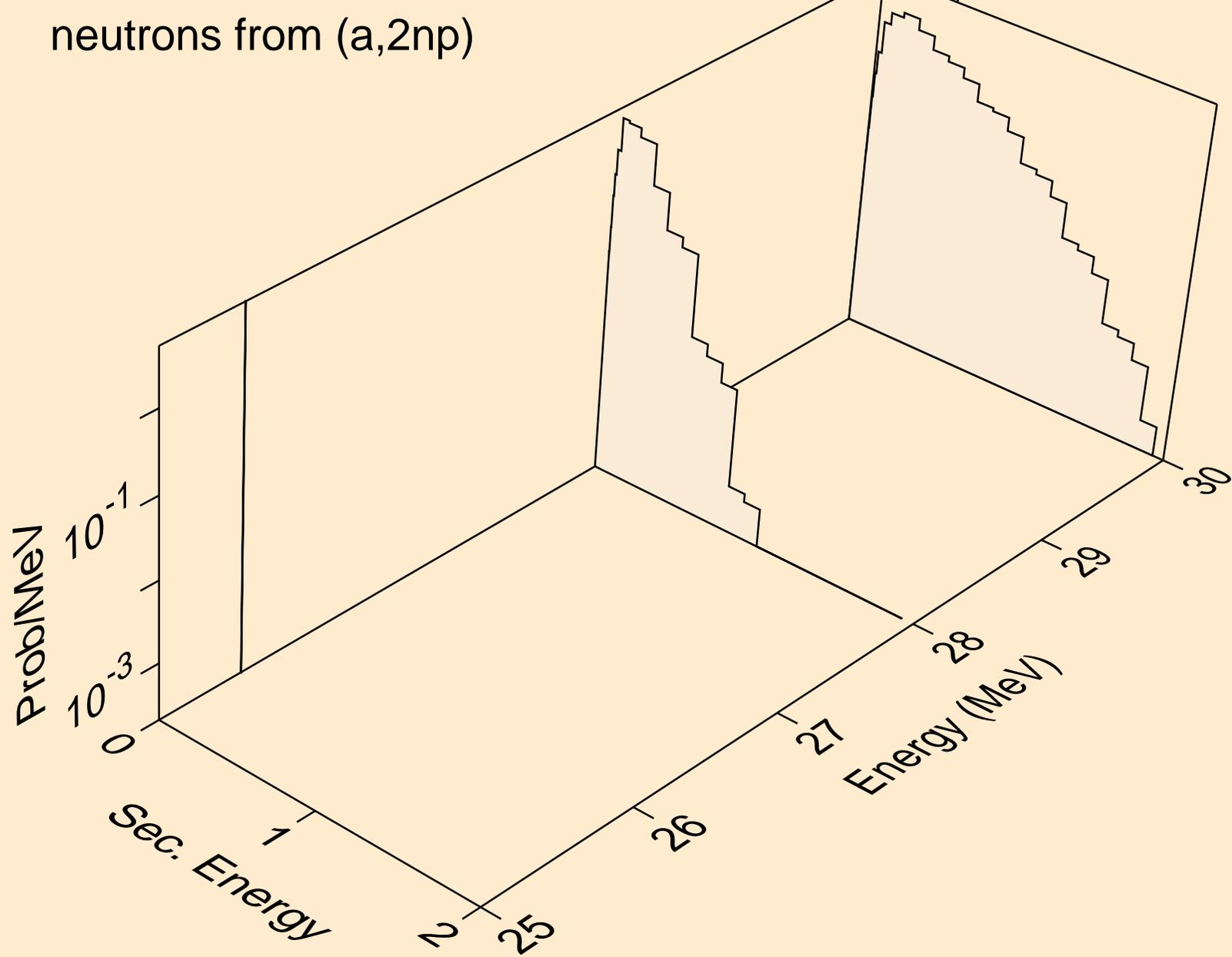
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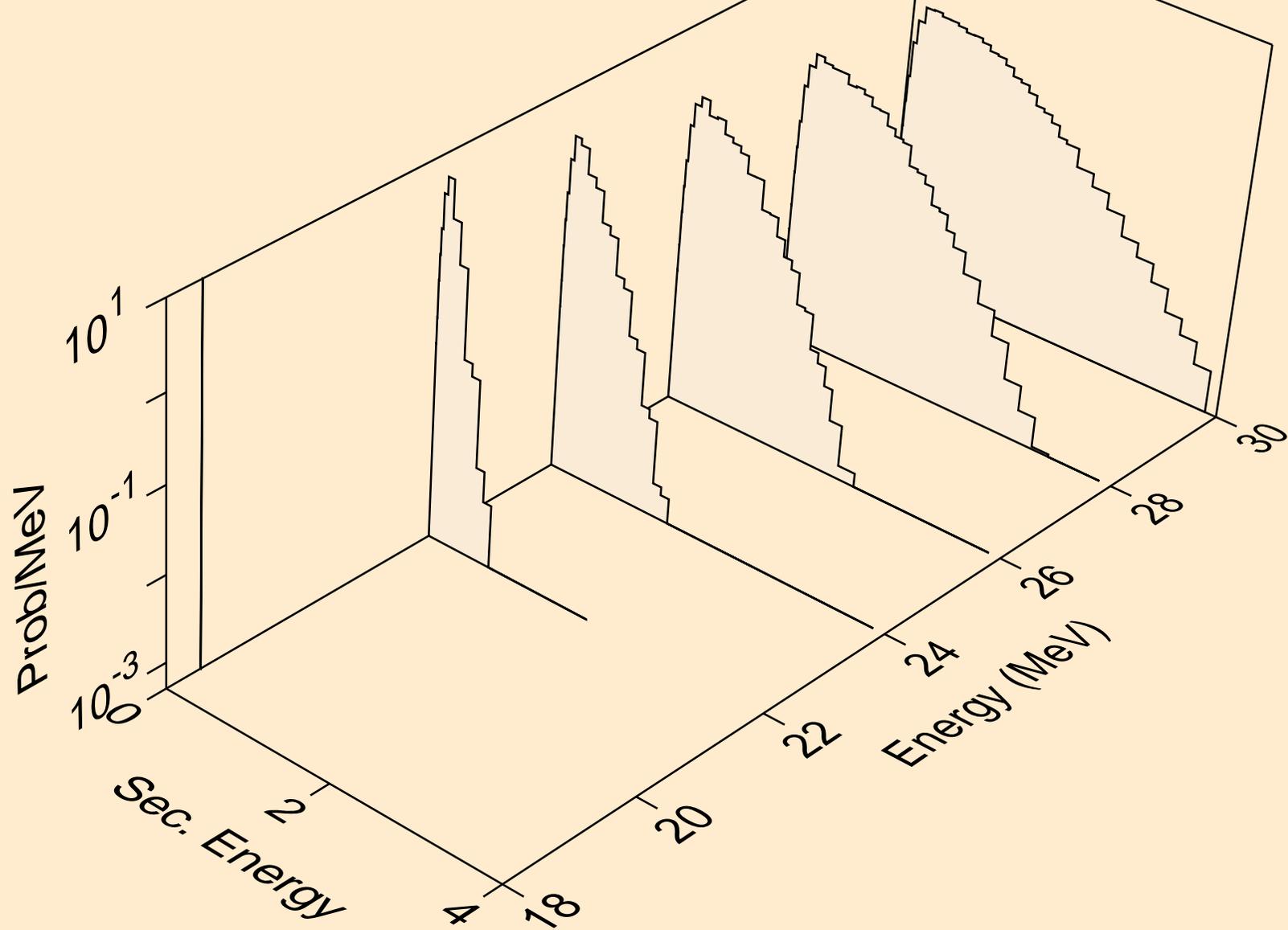
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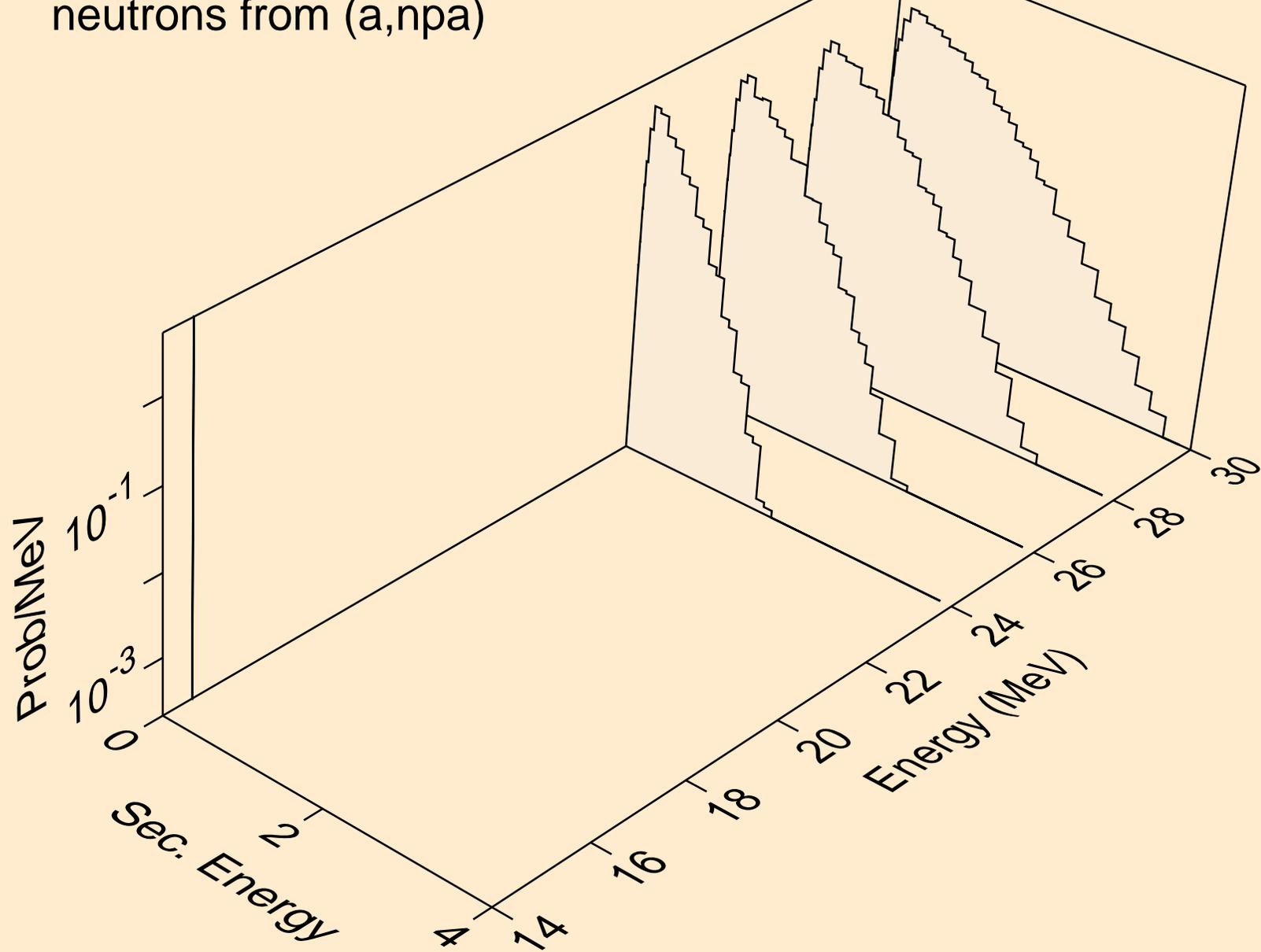
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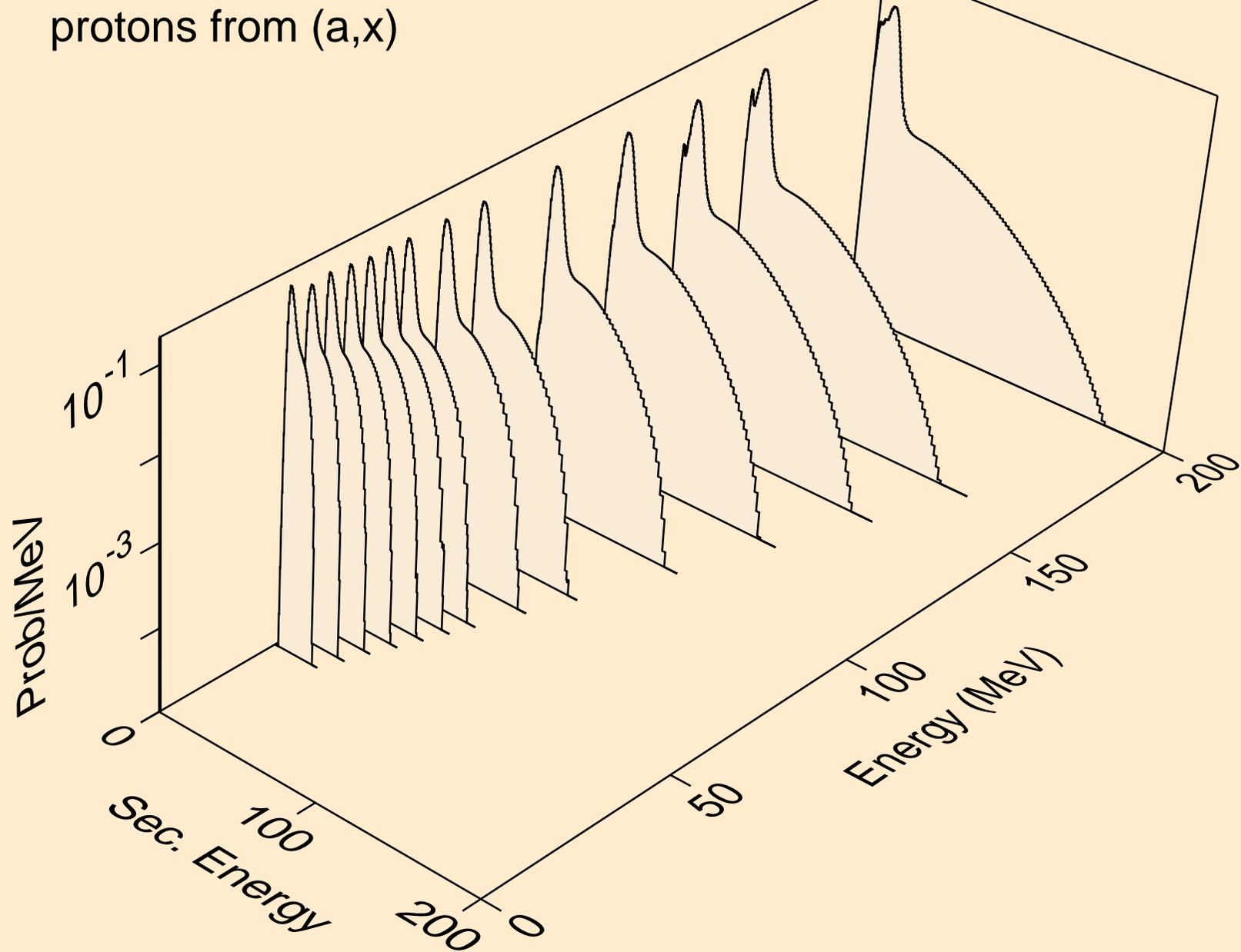
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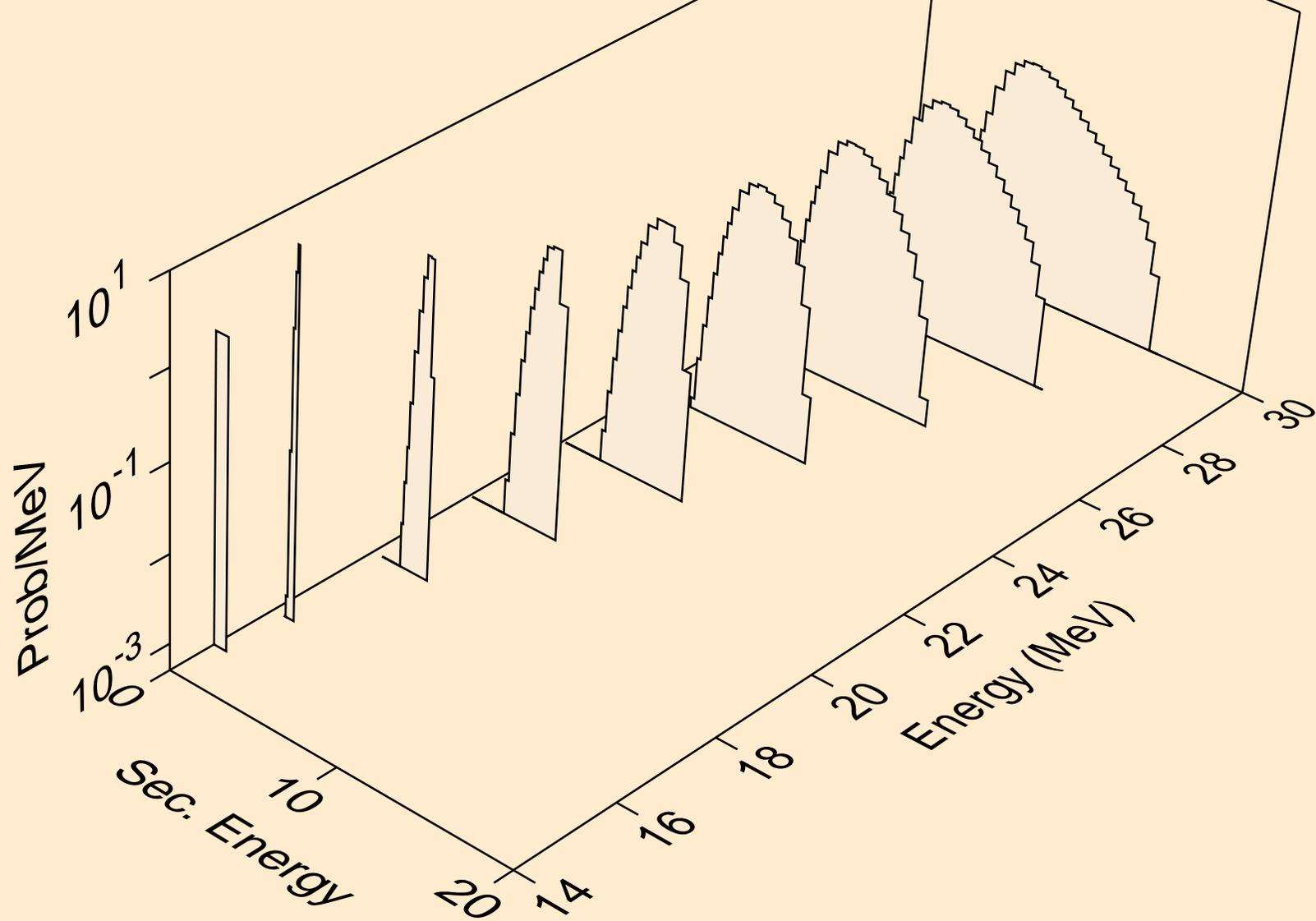
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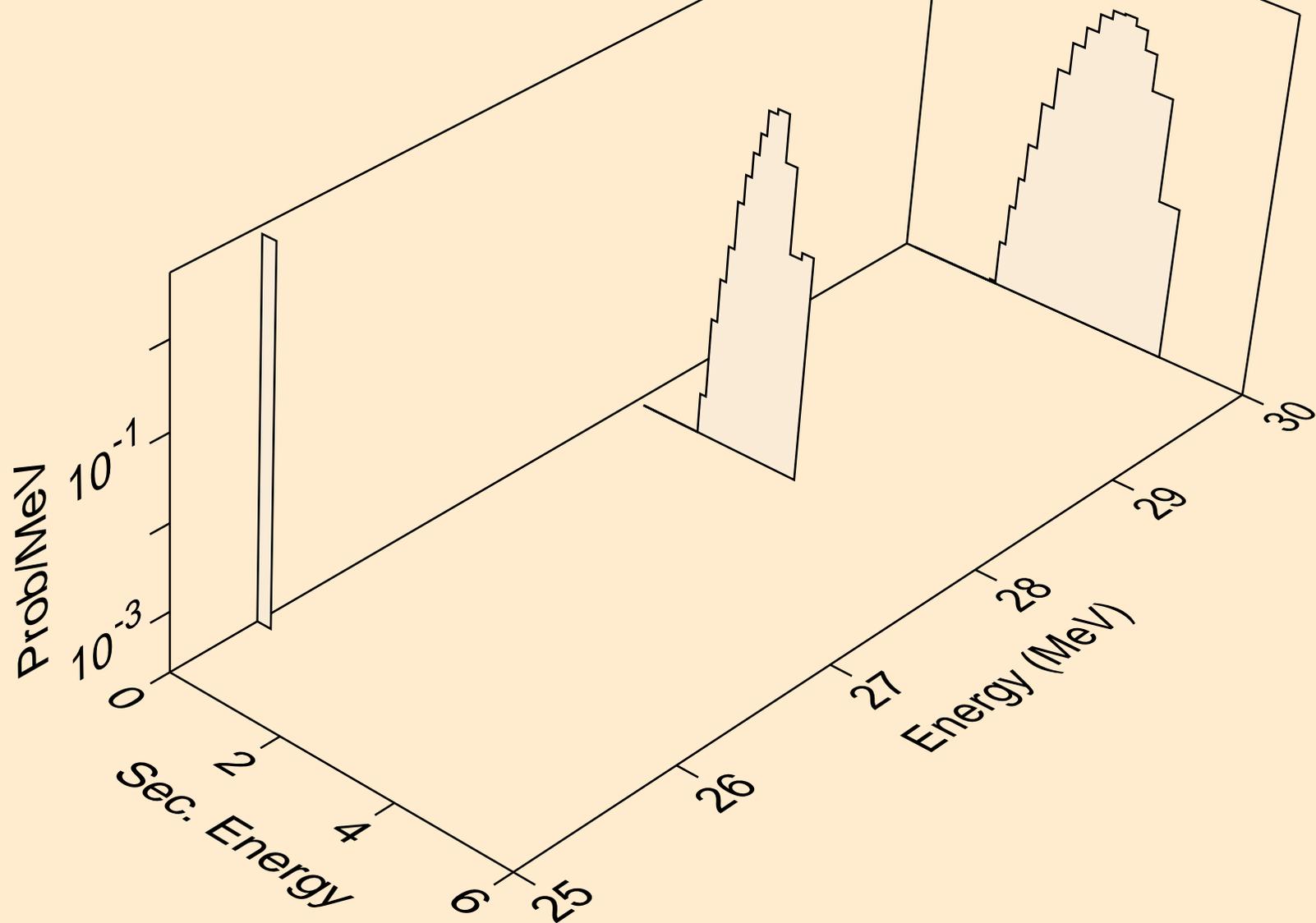
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protons from (a,x)



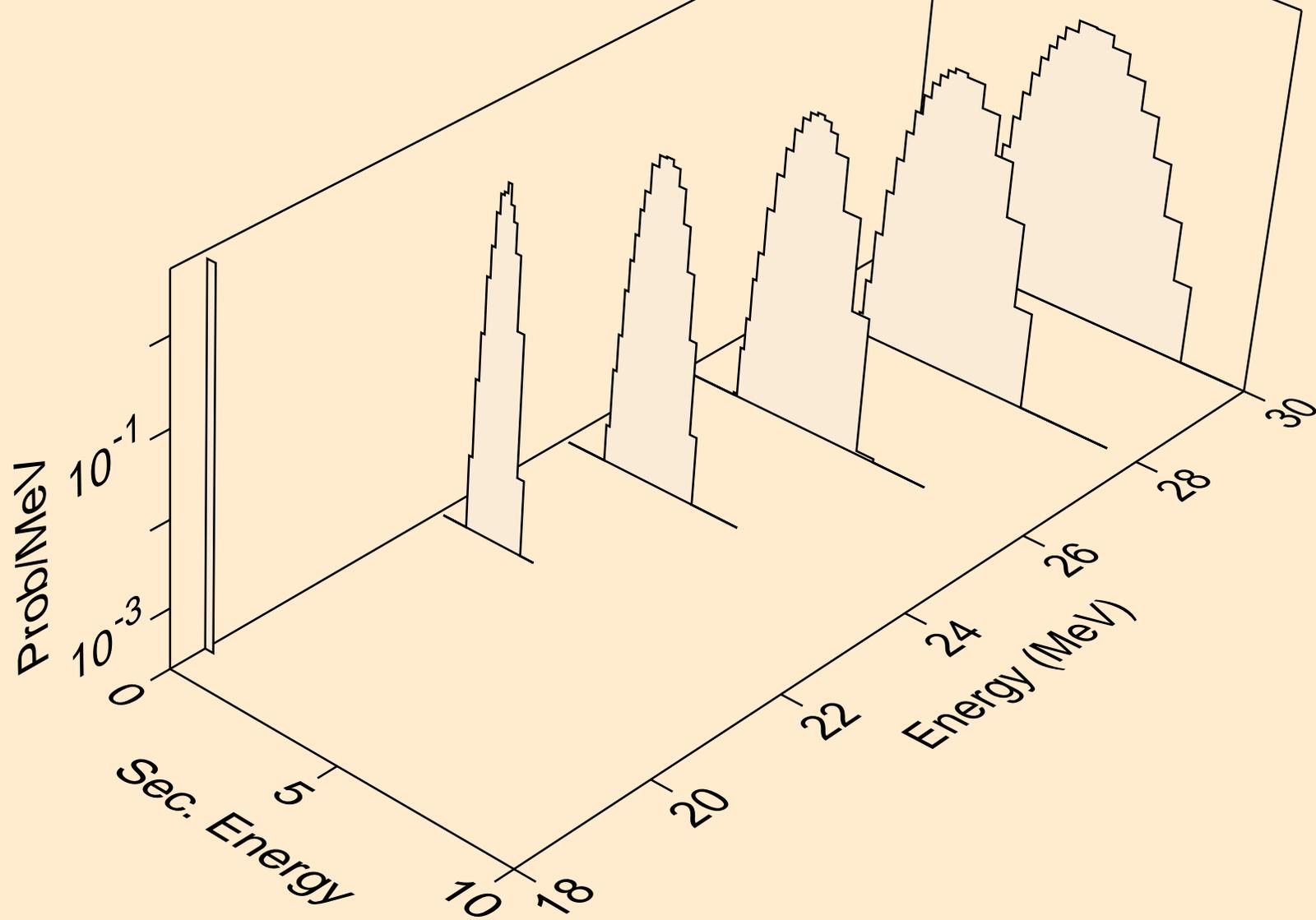
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protons from (a,n\*)p



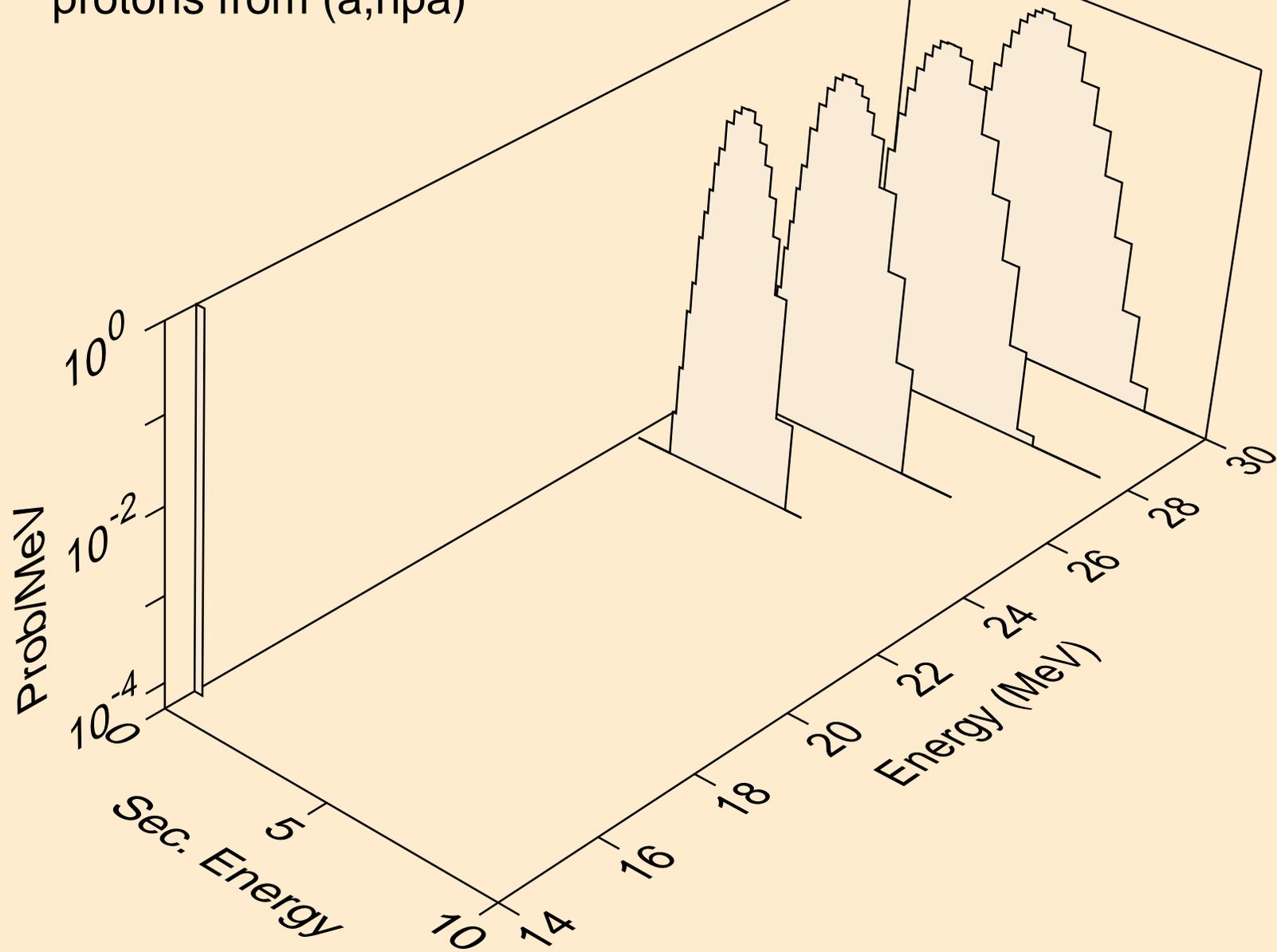
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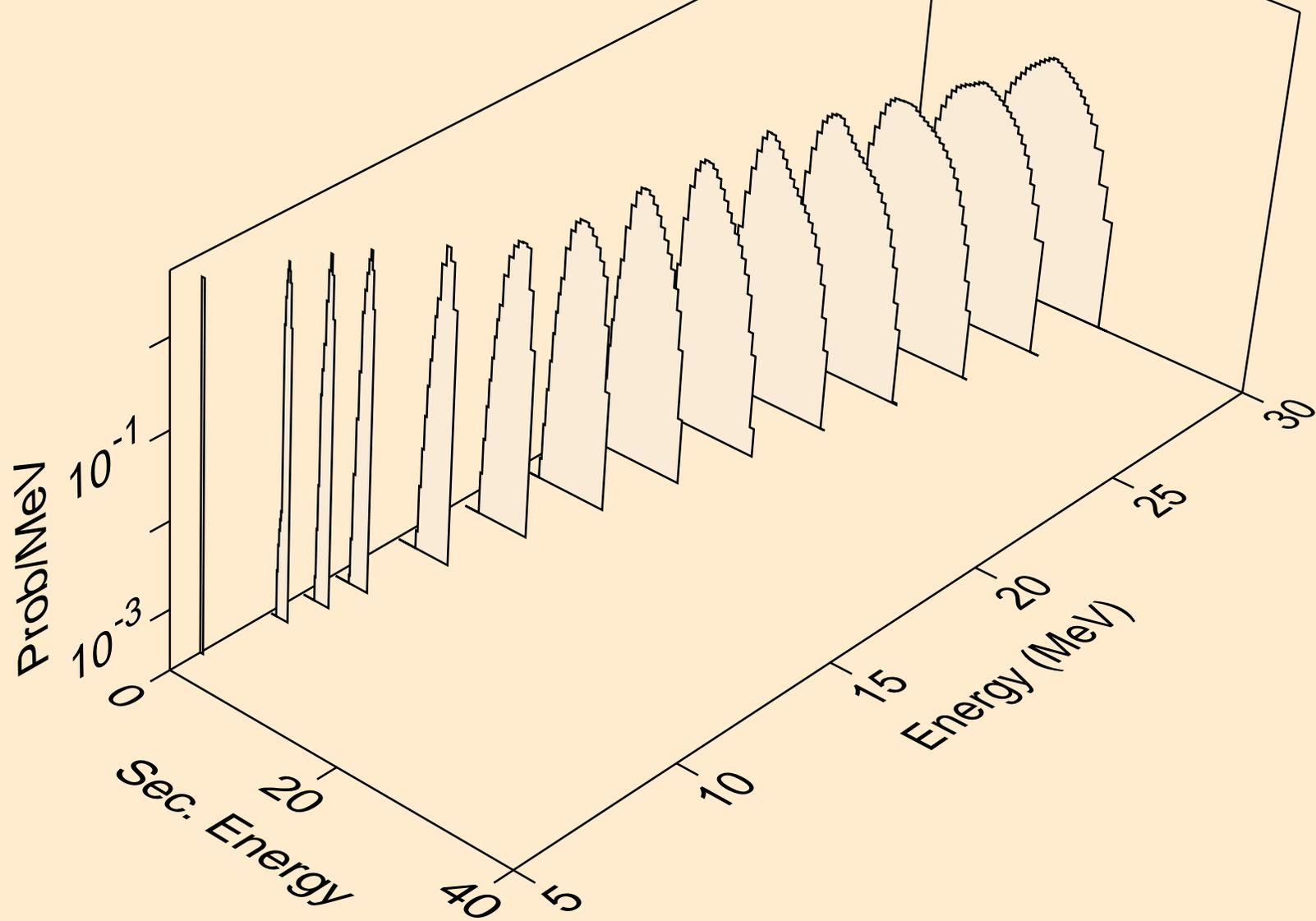
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protons from (a,2np)



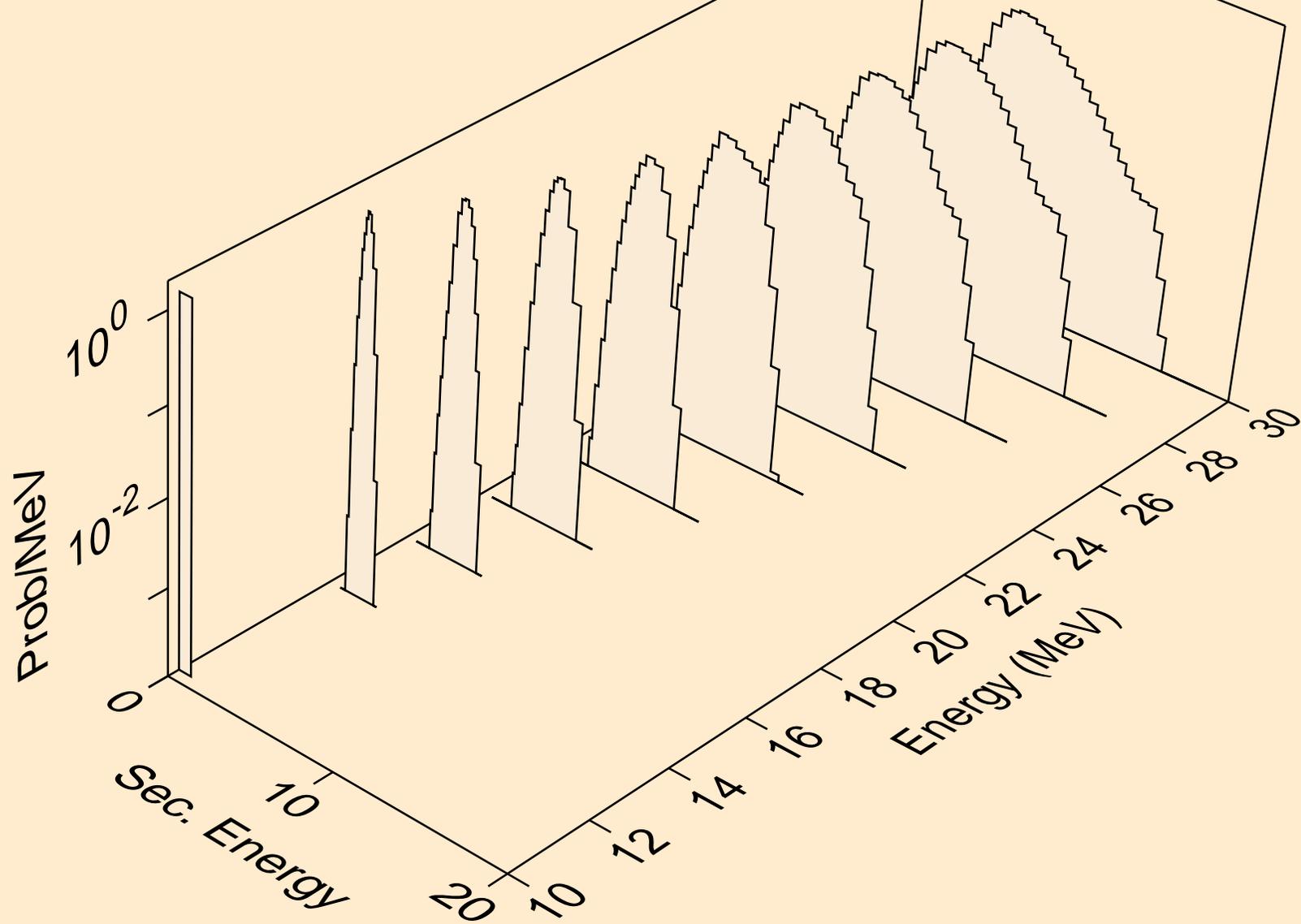
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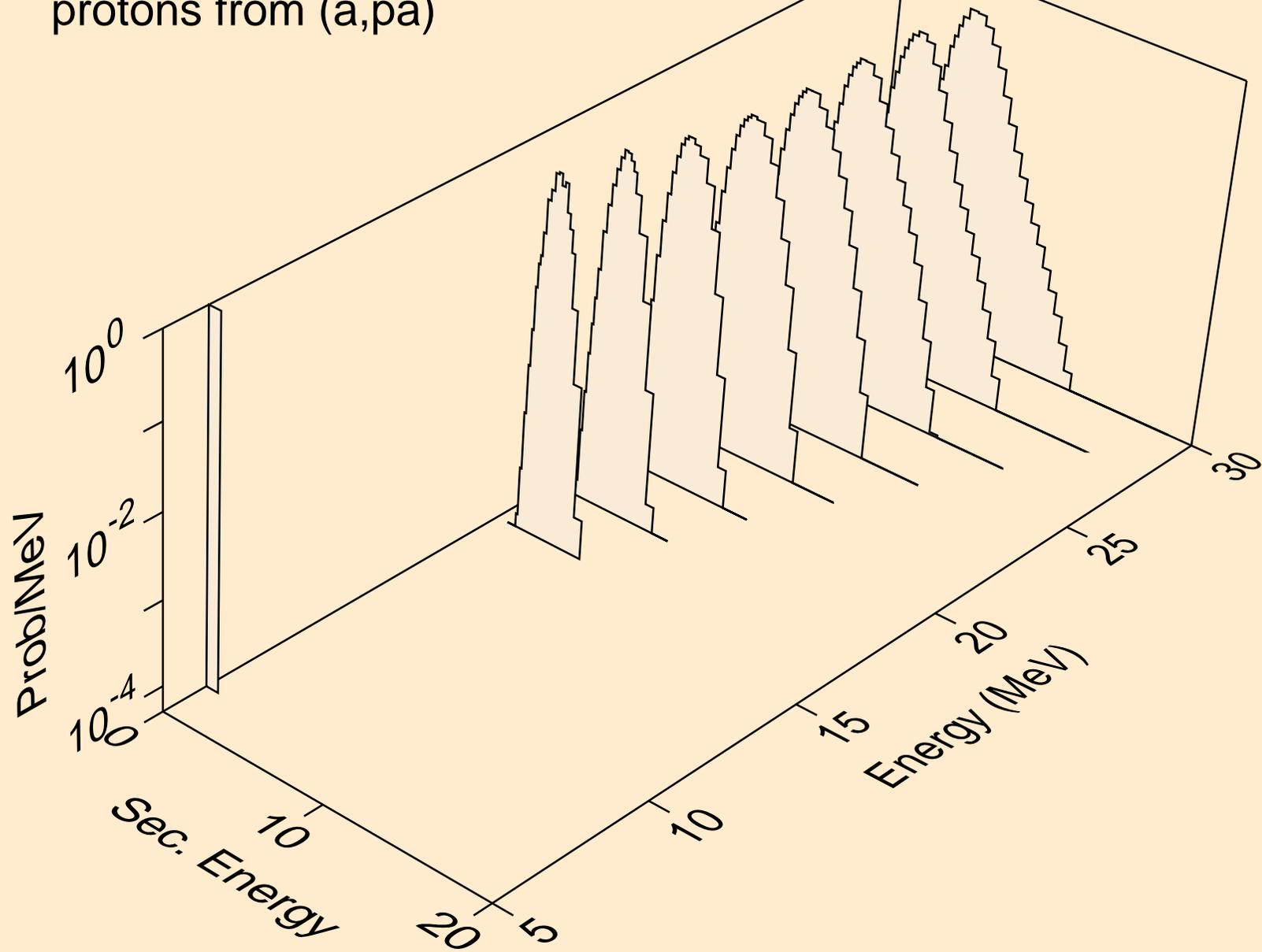
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protons from (a,p)



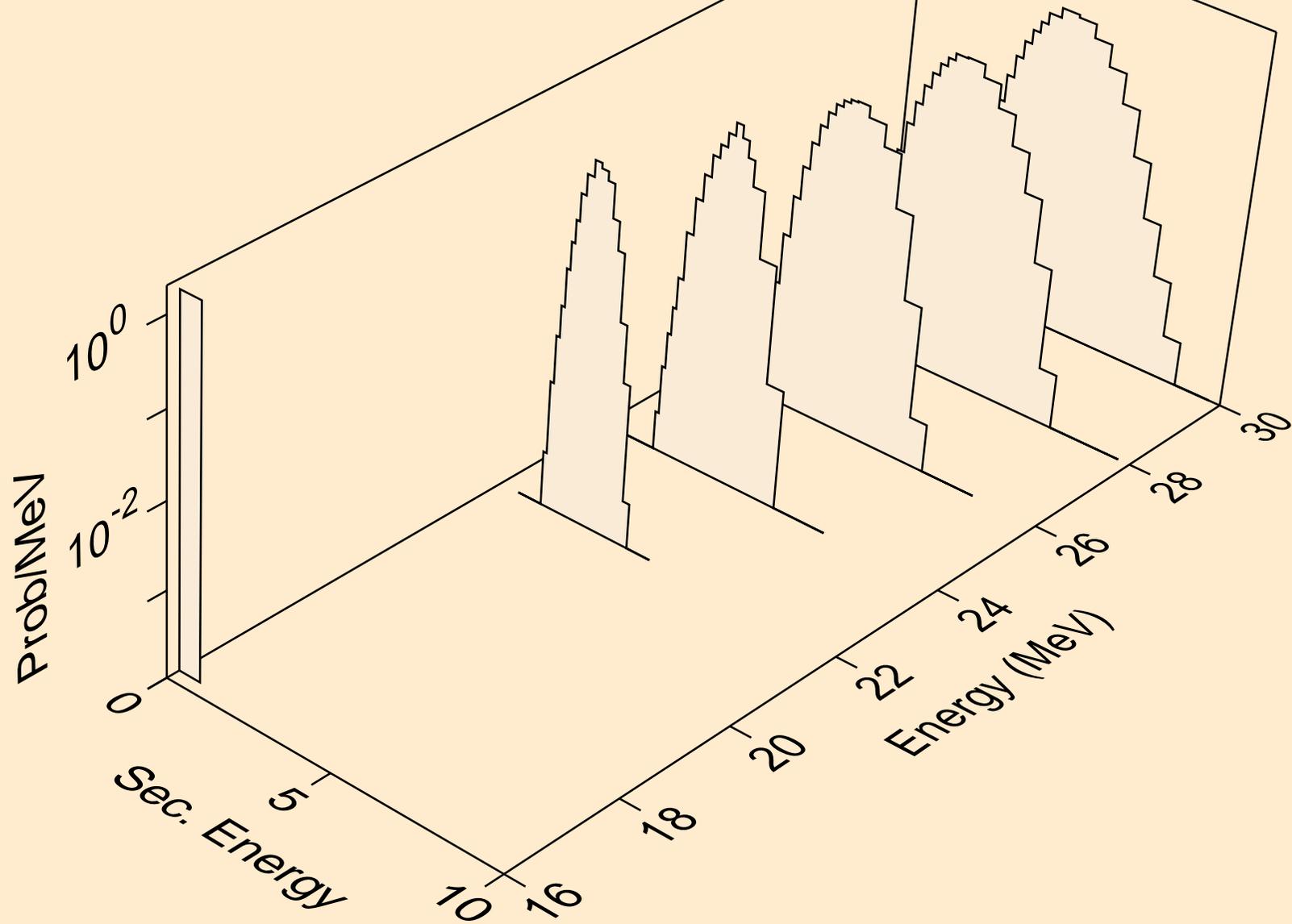
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protons from (a,2p)



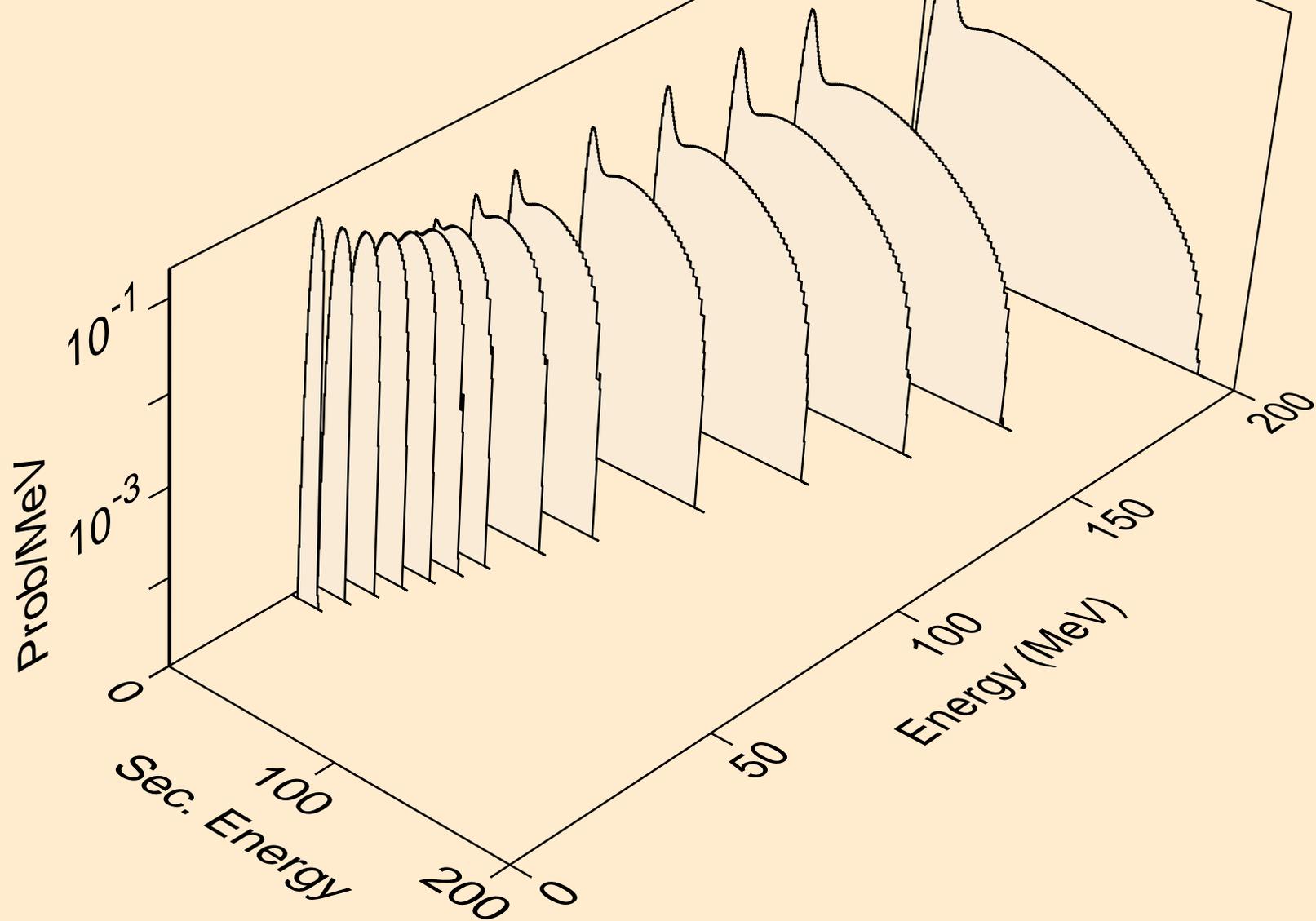
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protons from (a,pa)



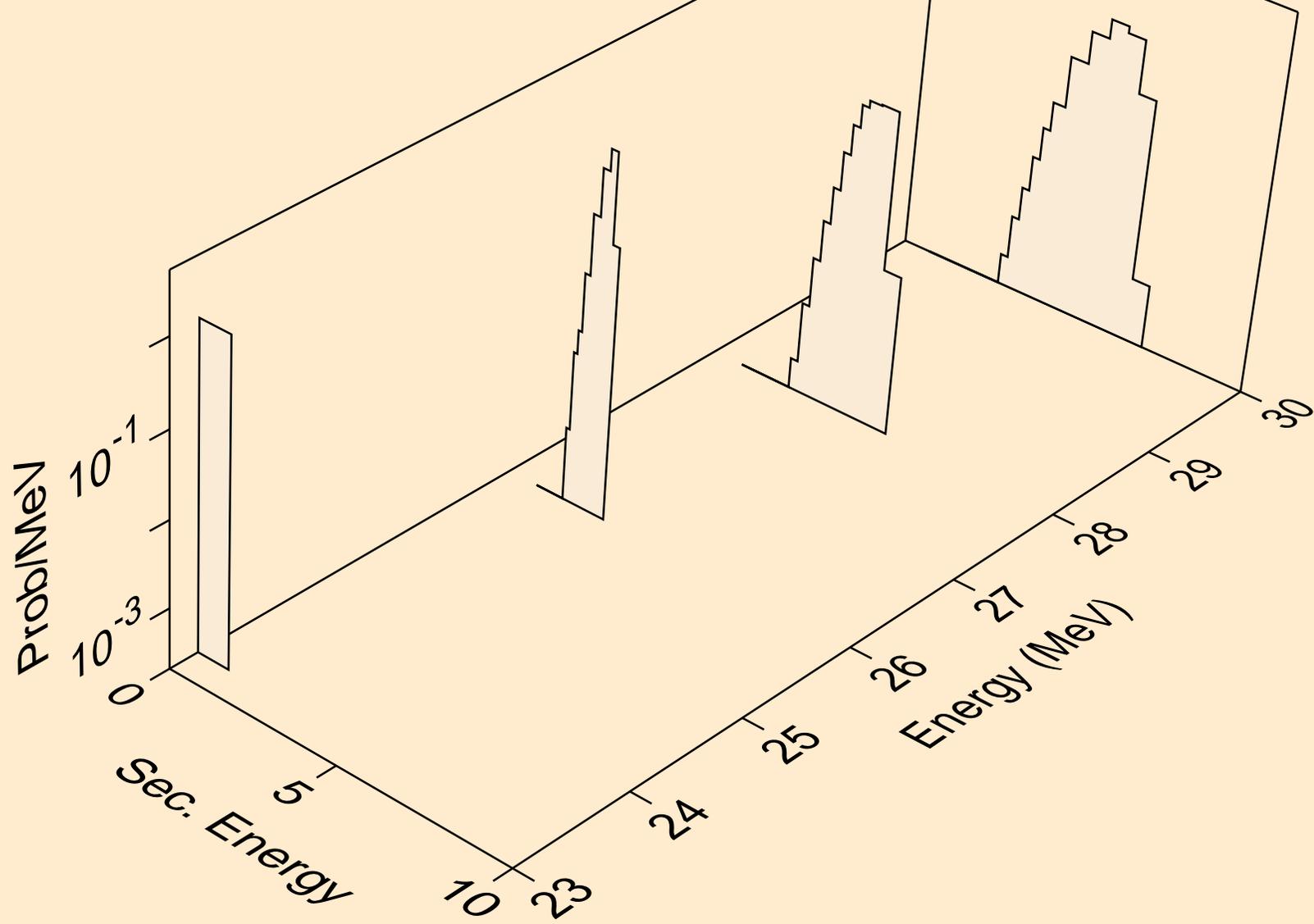
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protons from (a,pd)



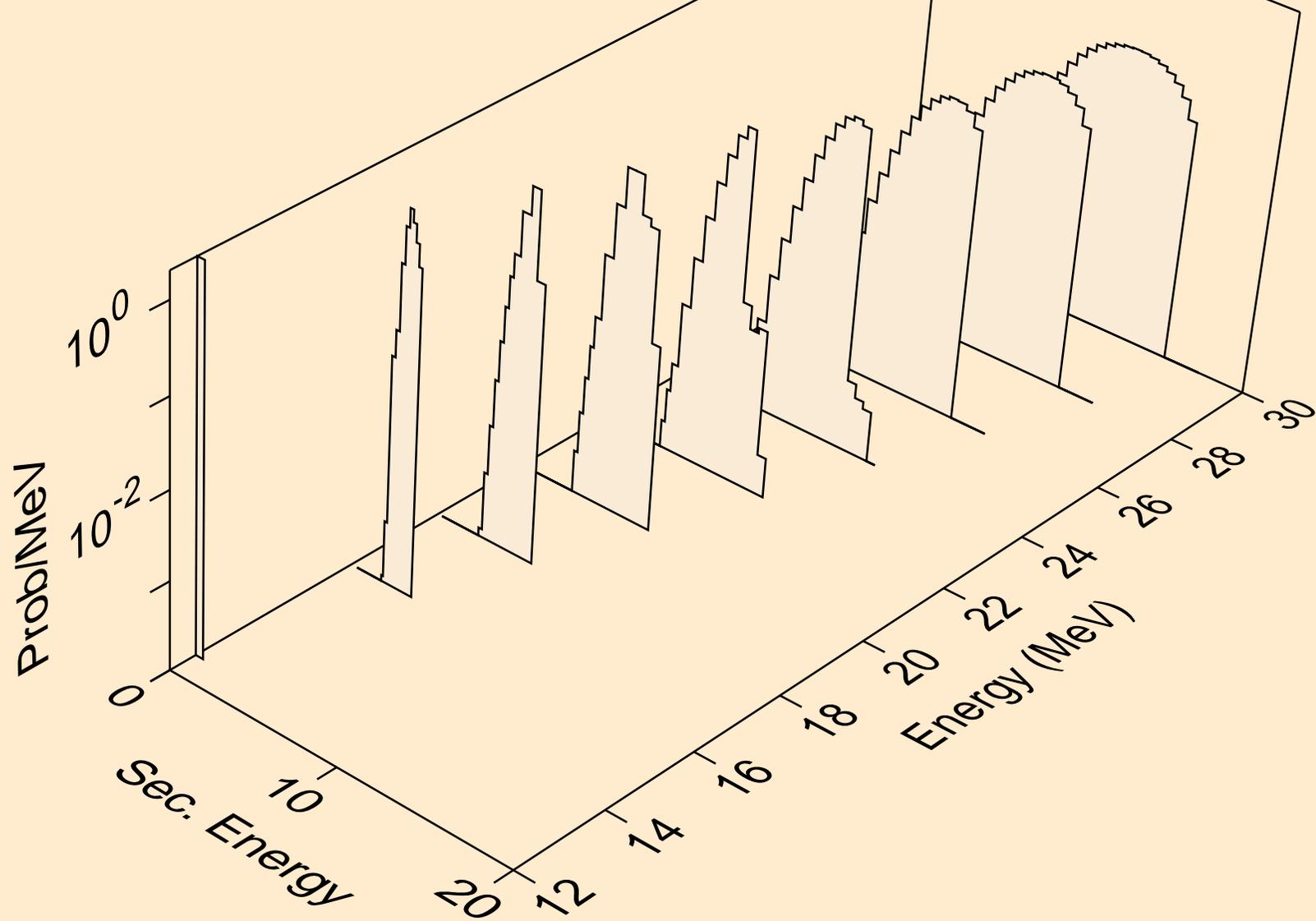
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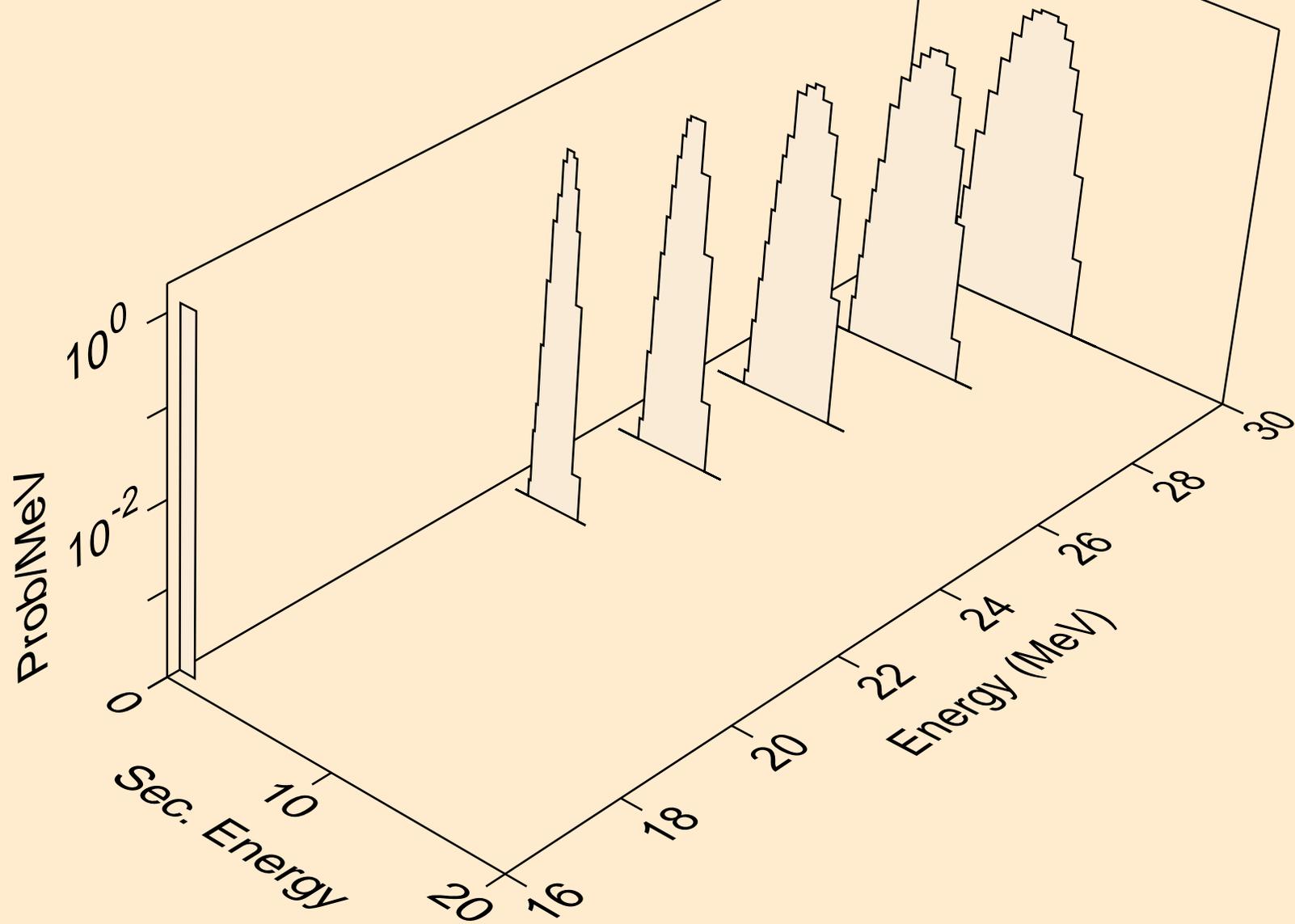
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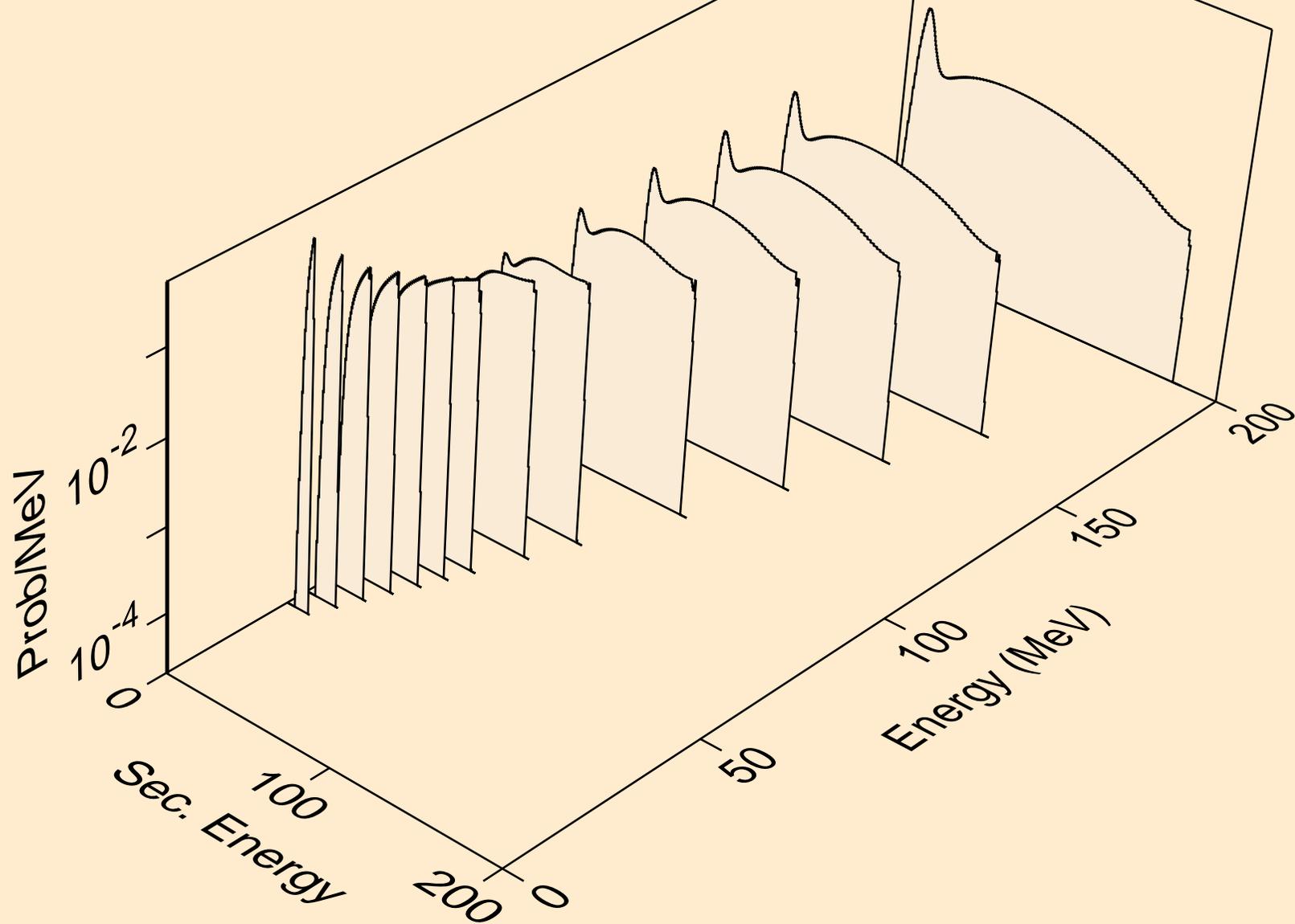
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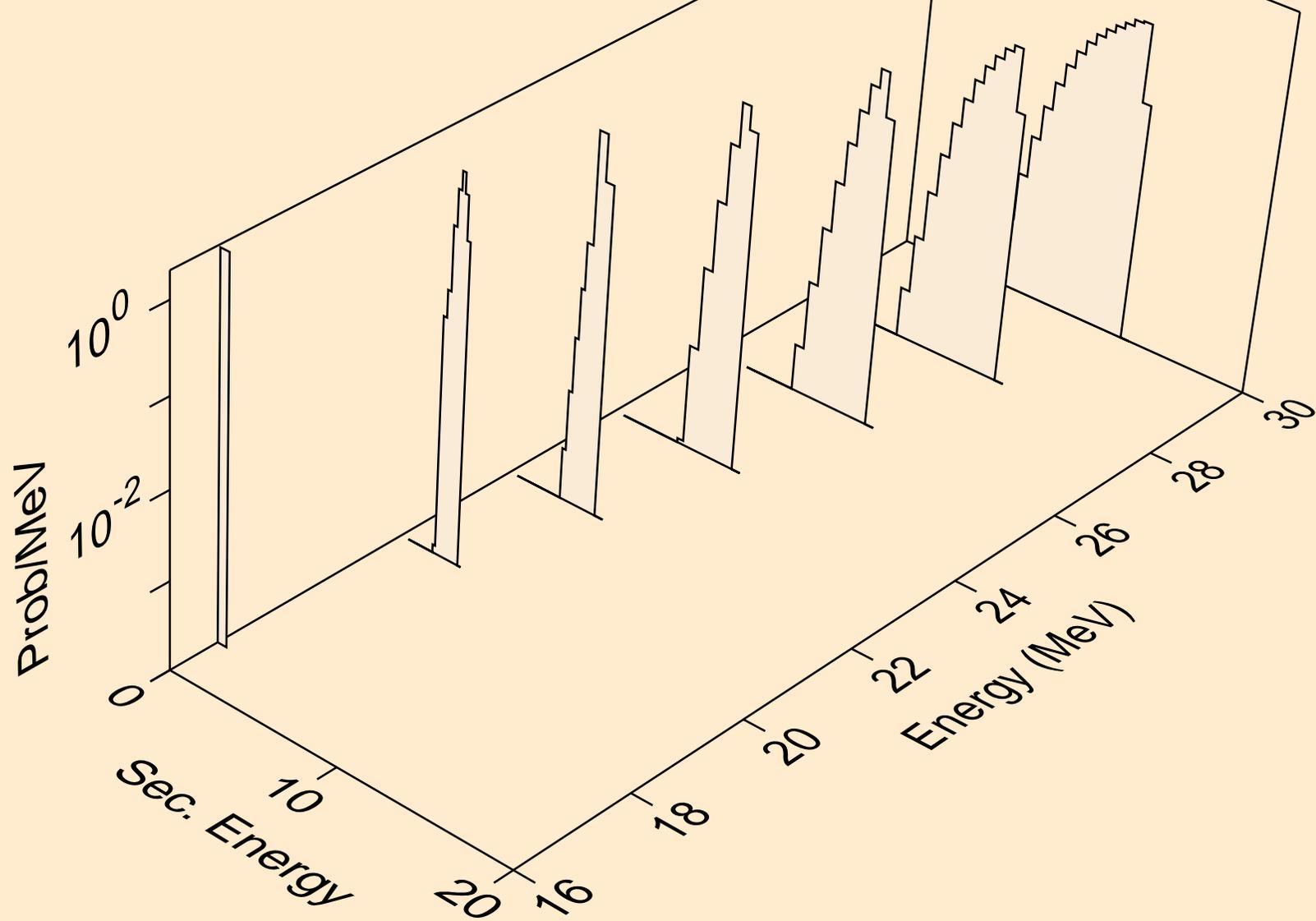
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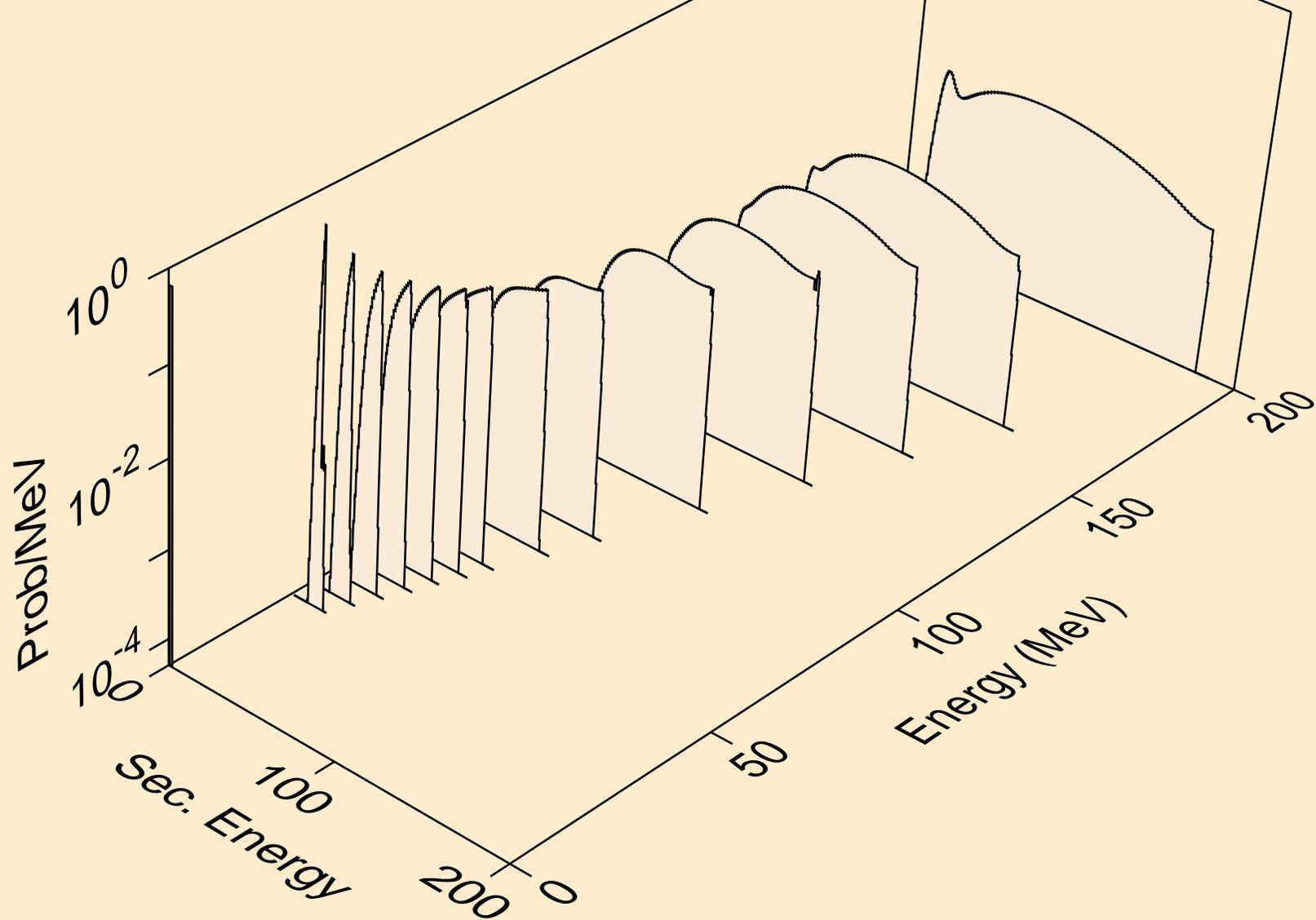
ND139 ALPHA ACER TENDL-2021 LIBRARY; T=0.K  
tritons from (a,x)



ND139 ALPHA ACER TENDL-2021 LIBRARY; T=0.K  
tritons from (a,t)



ND139 ALPHA ACER TENDL-2021 LIBRARY; T=0.K  
he3s from (a,x)



ND139 ALPHA ACER TENDL-2021 LIBRARY; T=0.K  
he3s from (a,he3)

