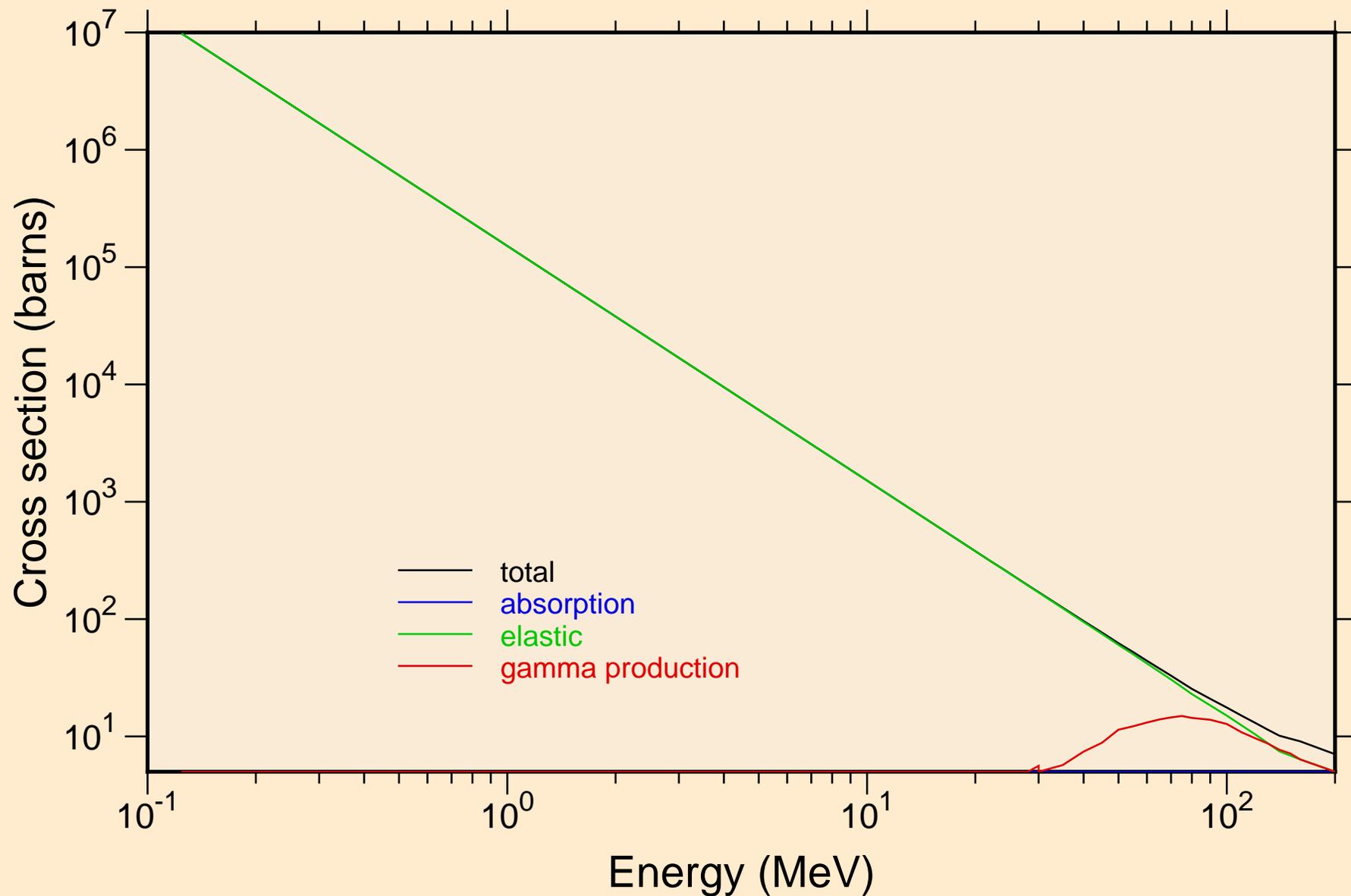


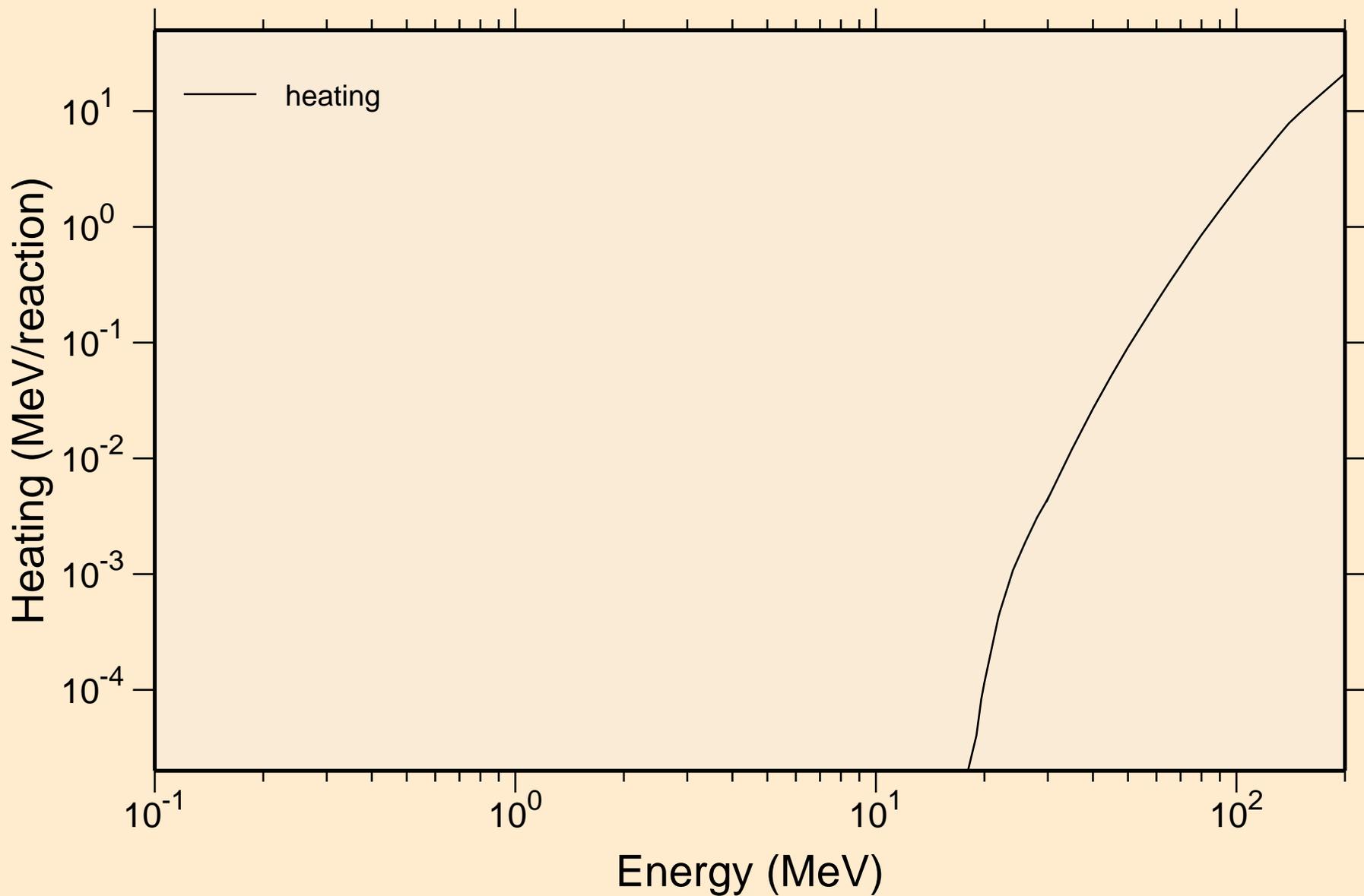
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## Principal cross sections



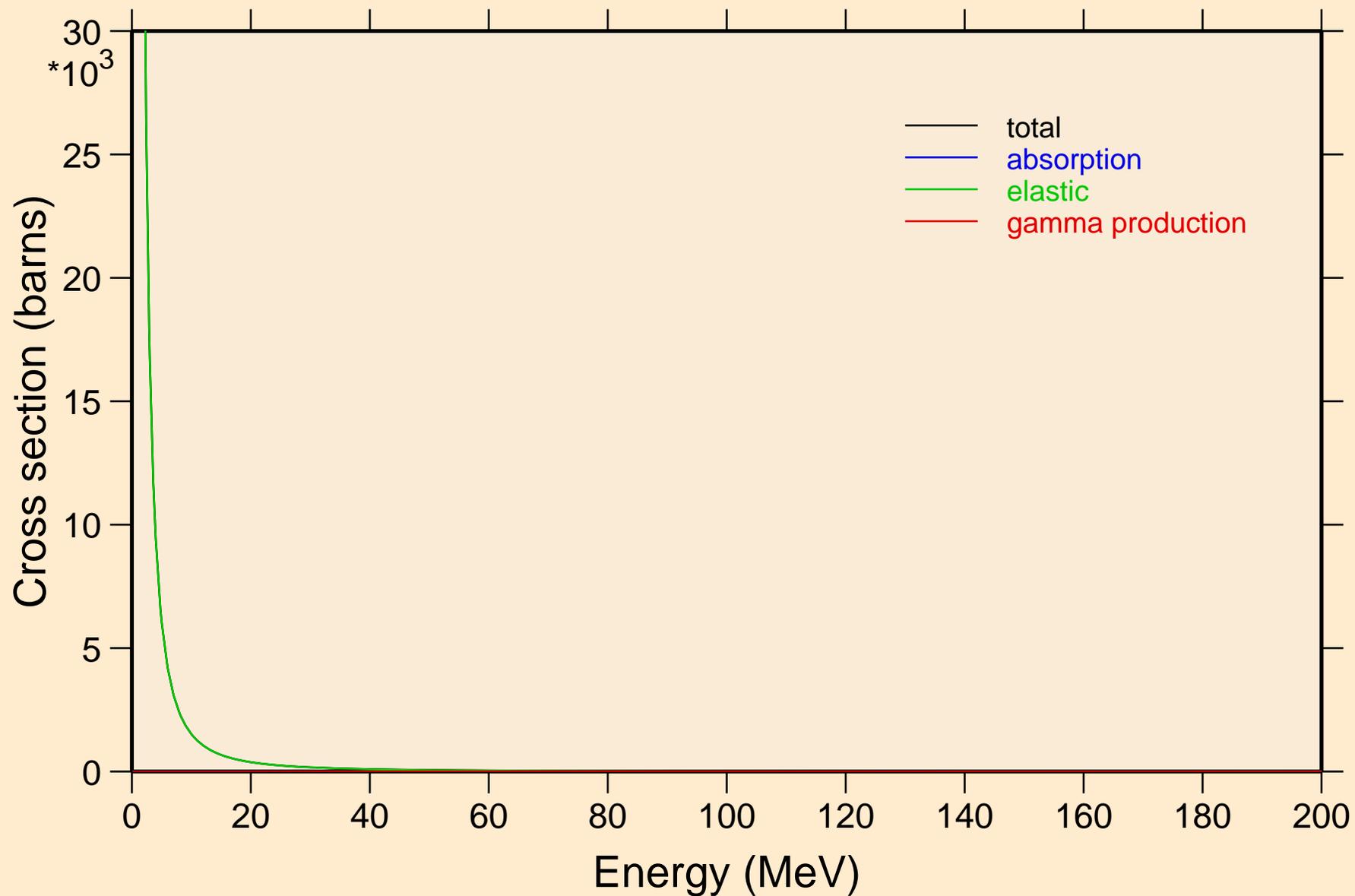
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Heating

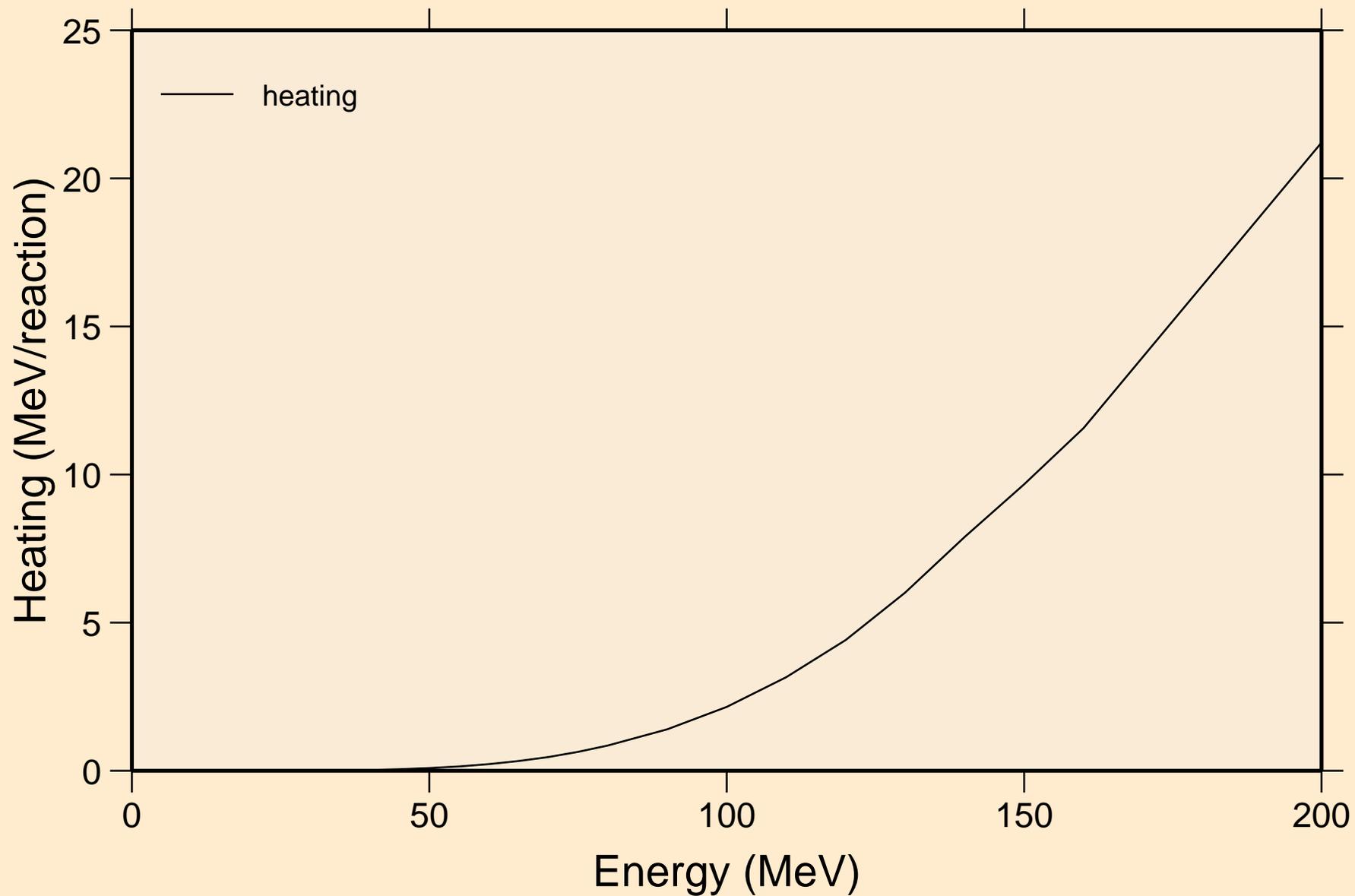


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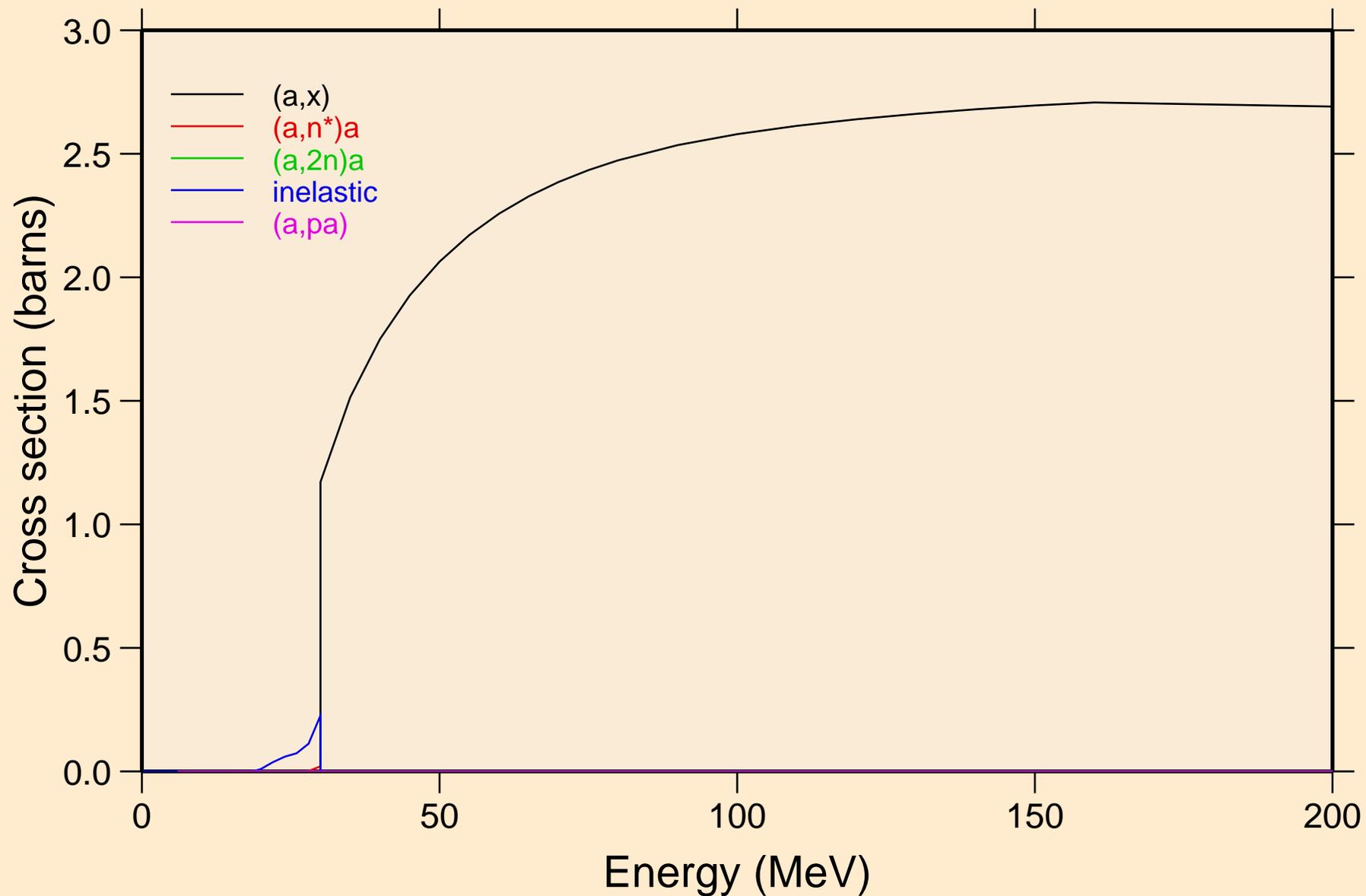
## Principal cross sections



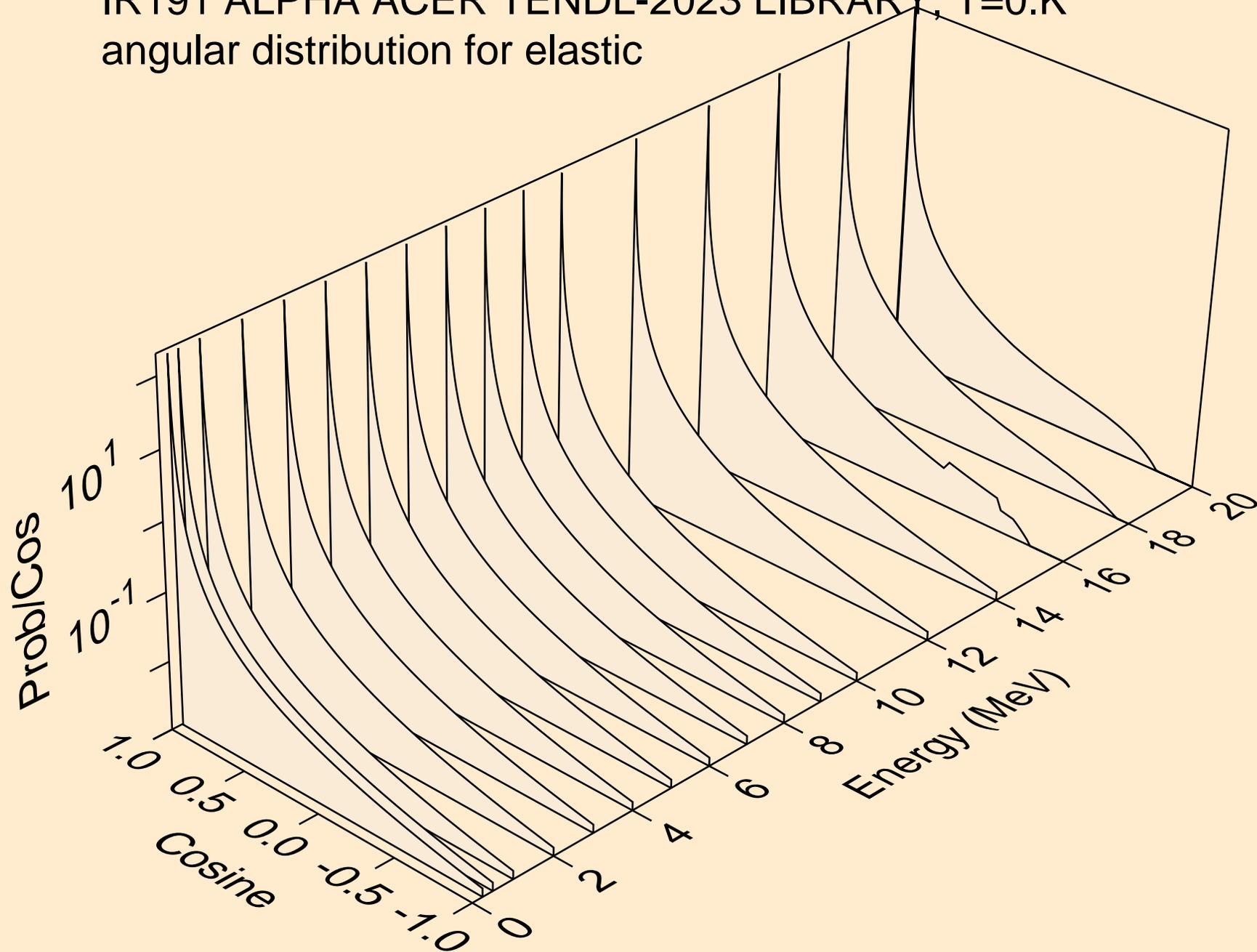
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Heating



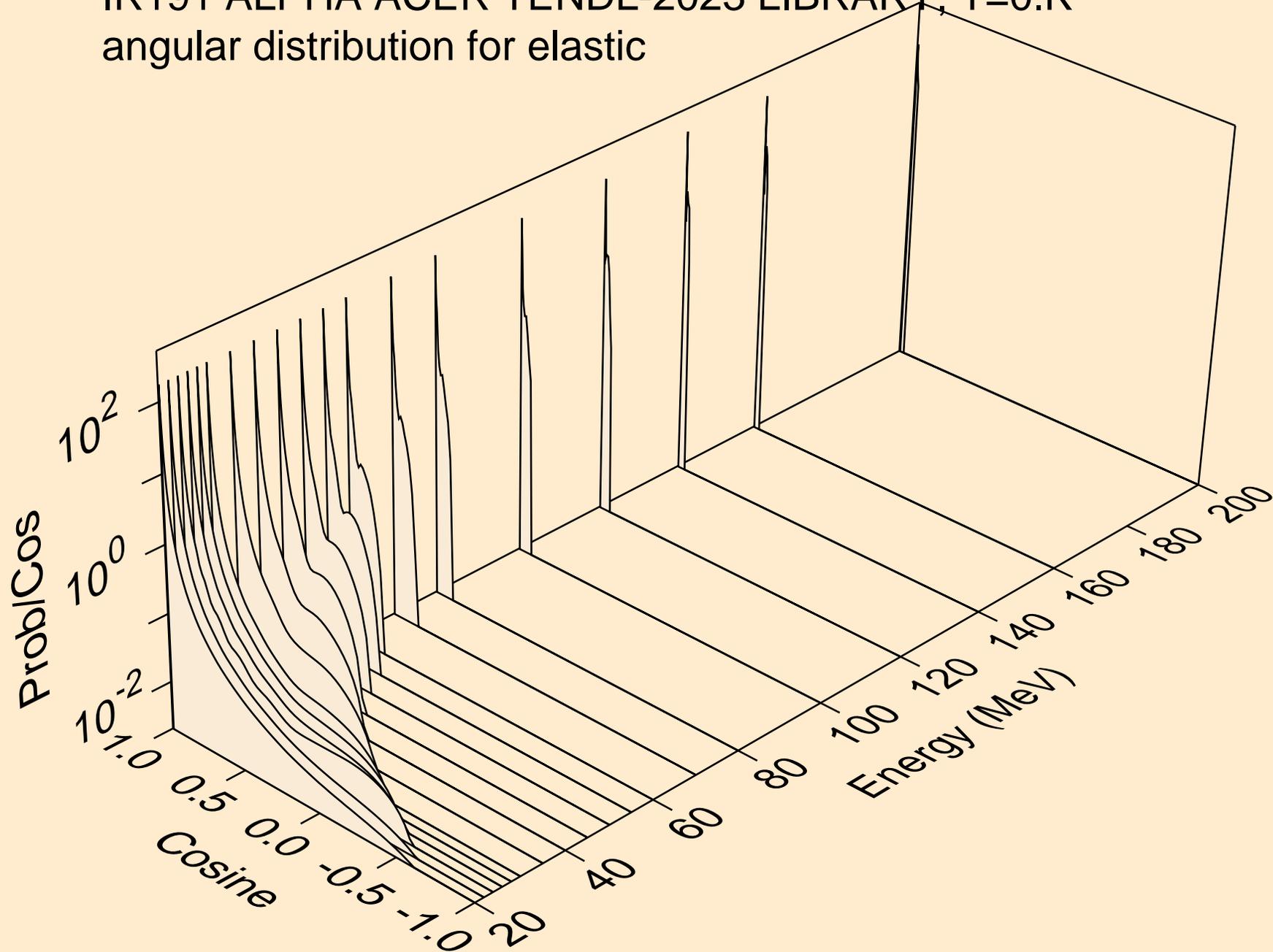
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Threshold reactions



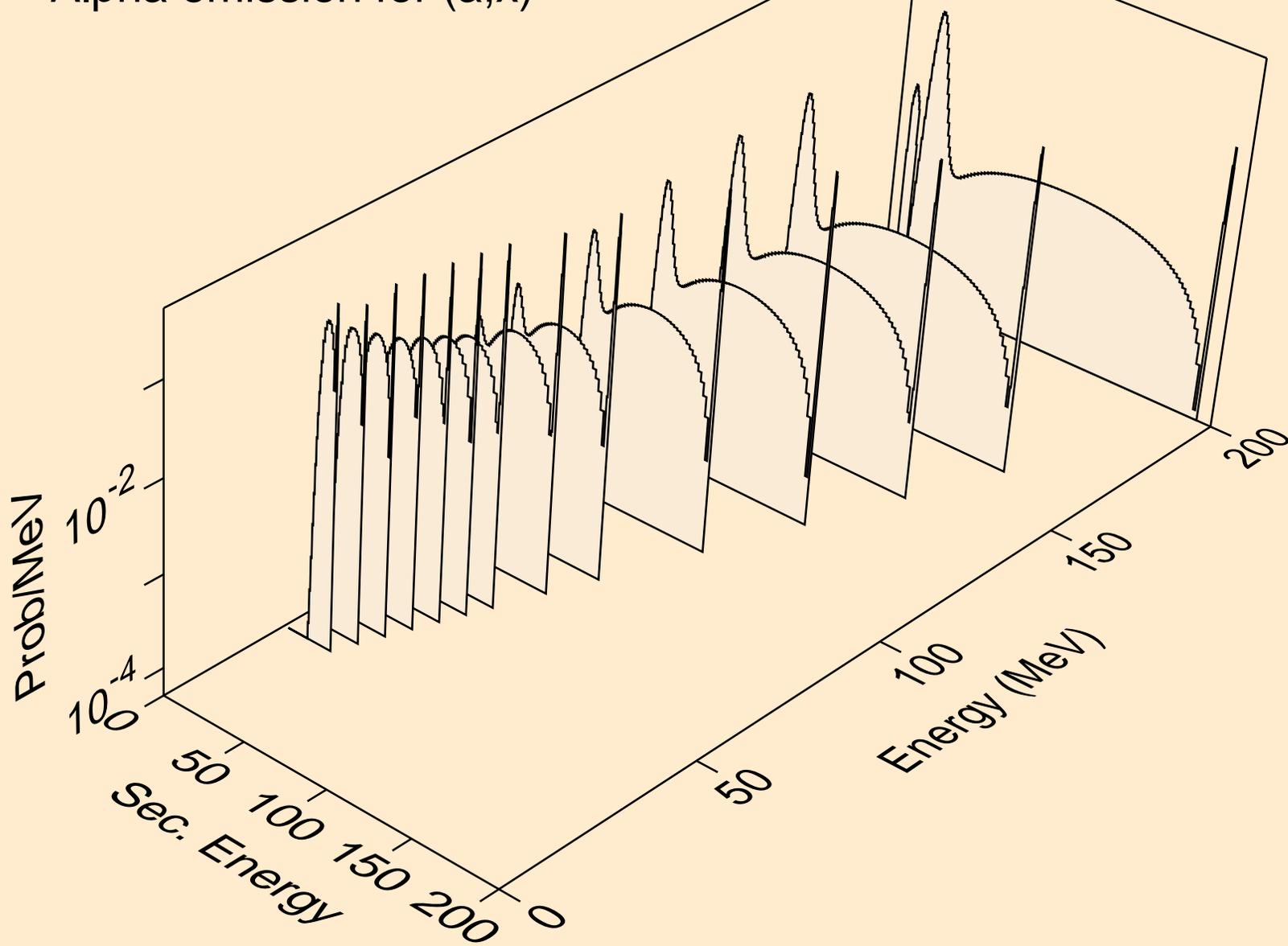
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angular distribution for elastic



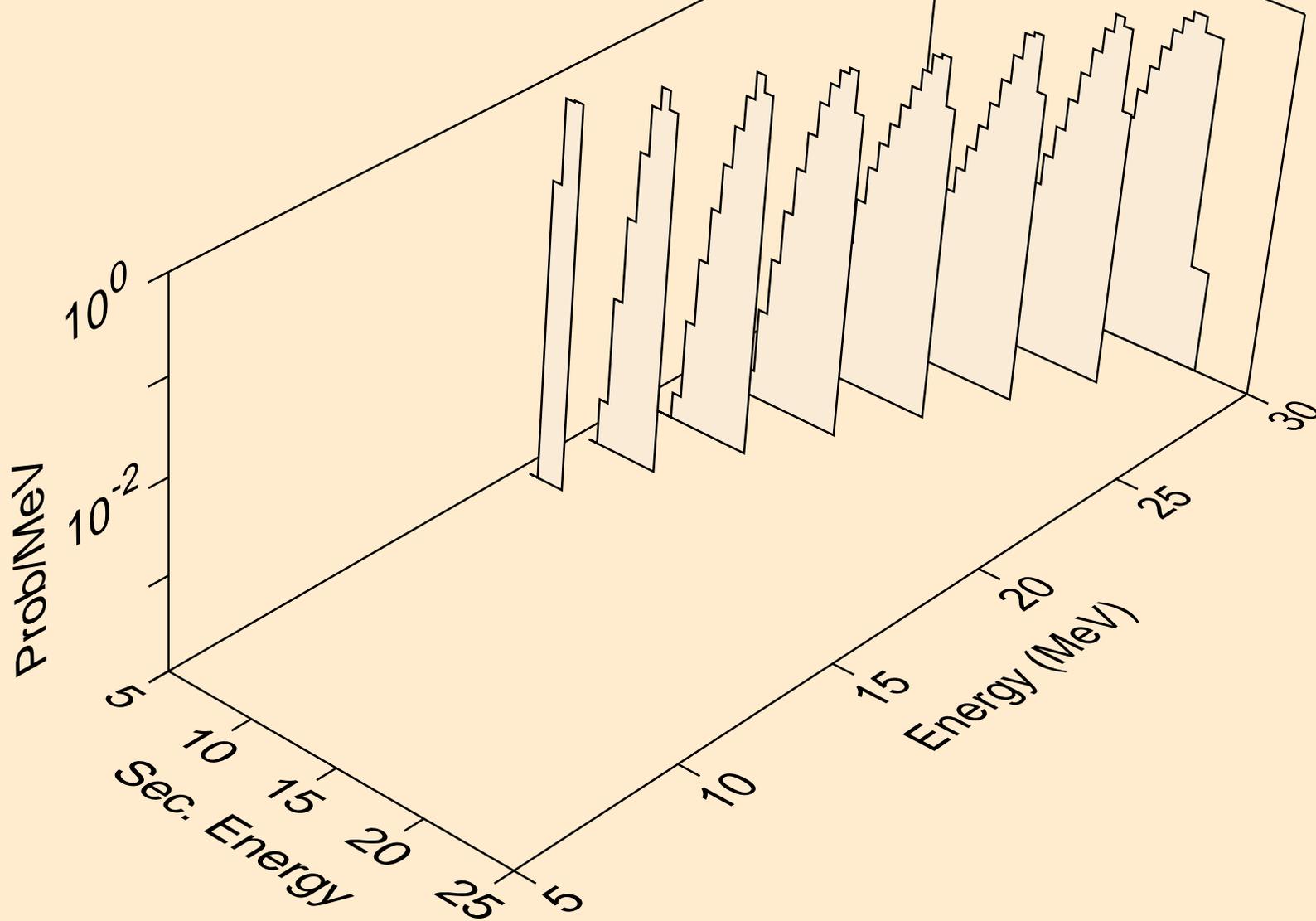
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angular distribution for elastic



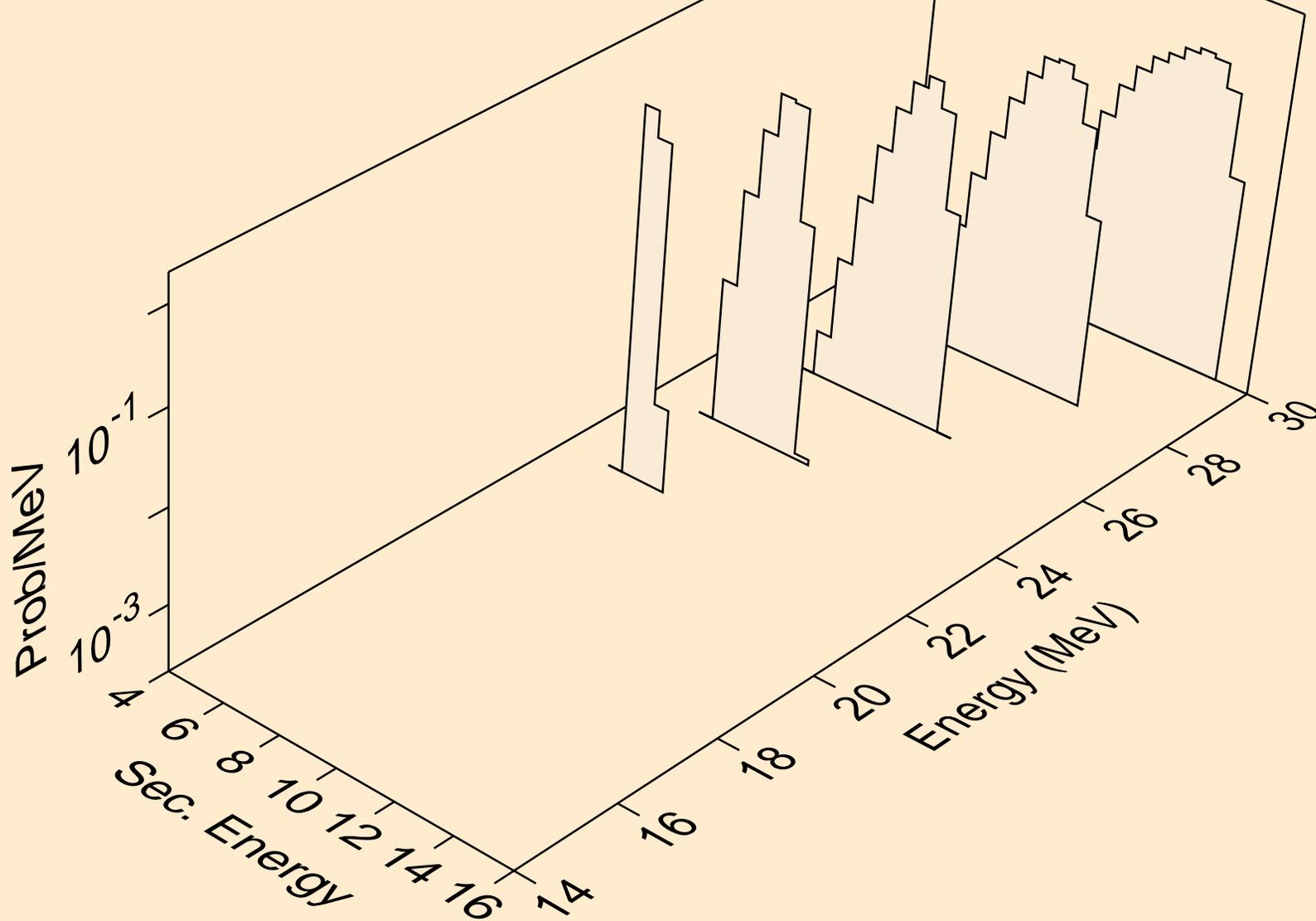
IR191 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
Alpha emission for (a,x)



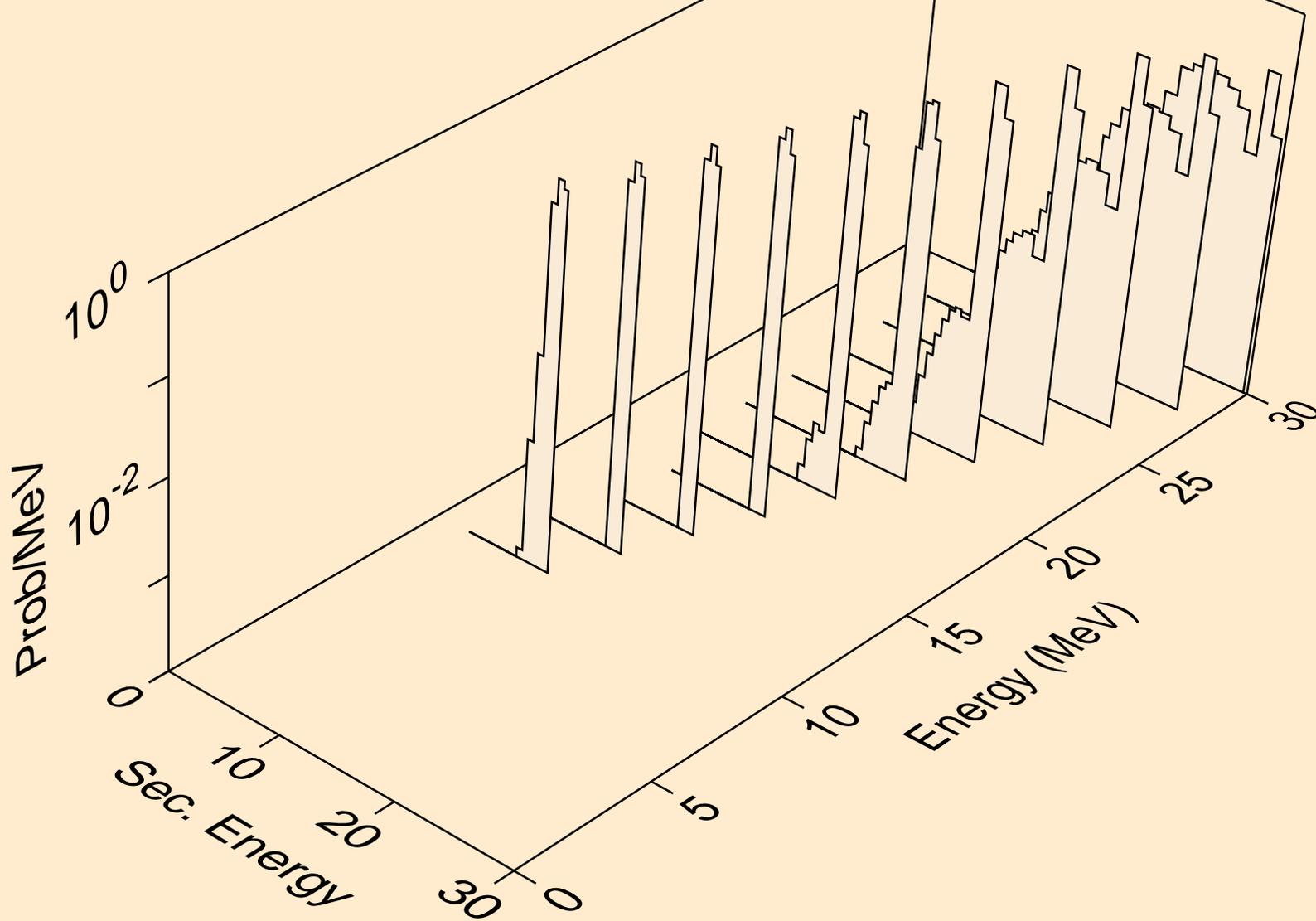
IR191 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
Alpha emission for (a,n\*)a



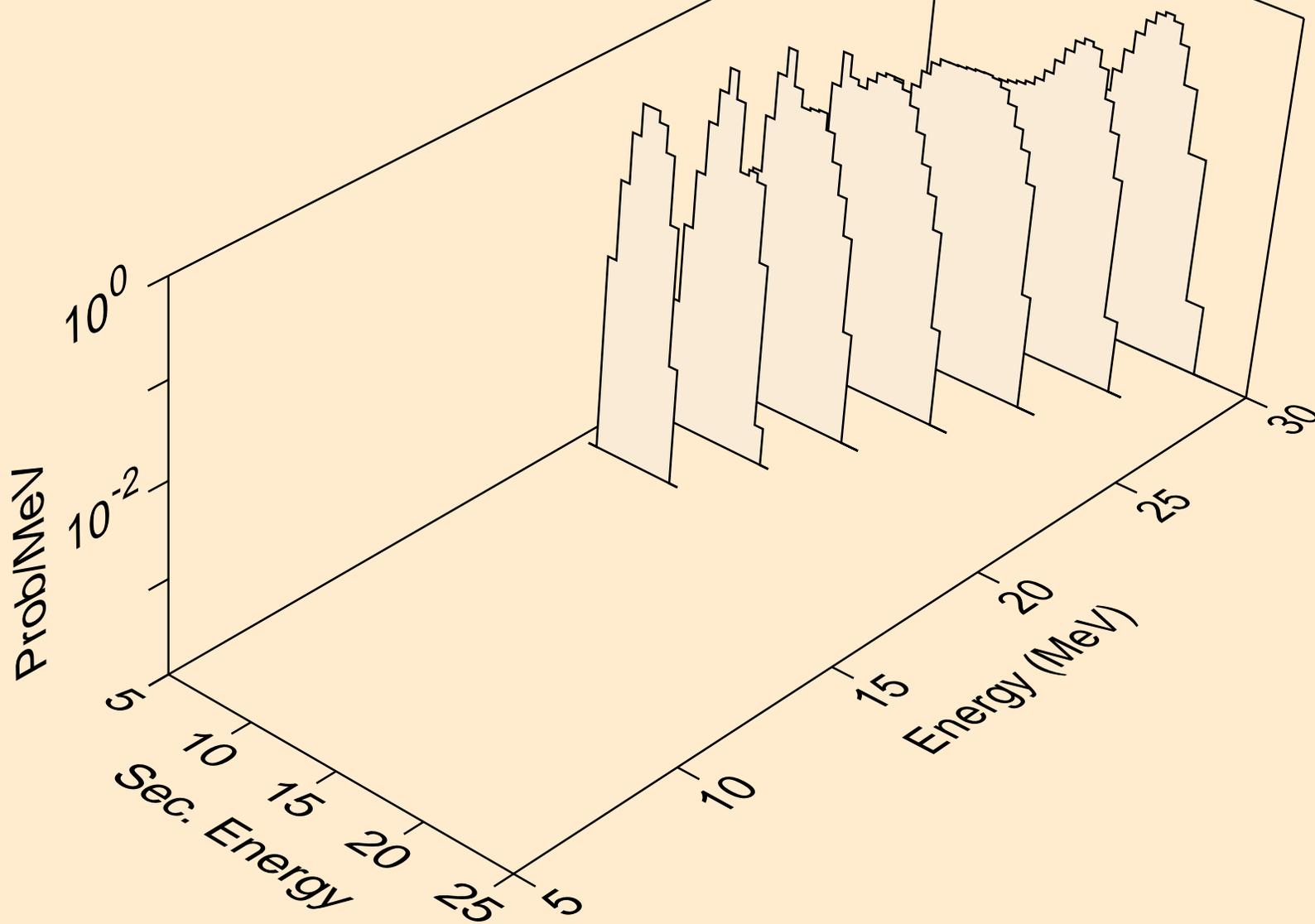
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Alpha emission for (a,2n)a



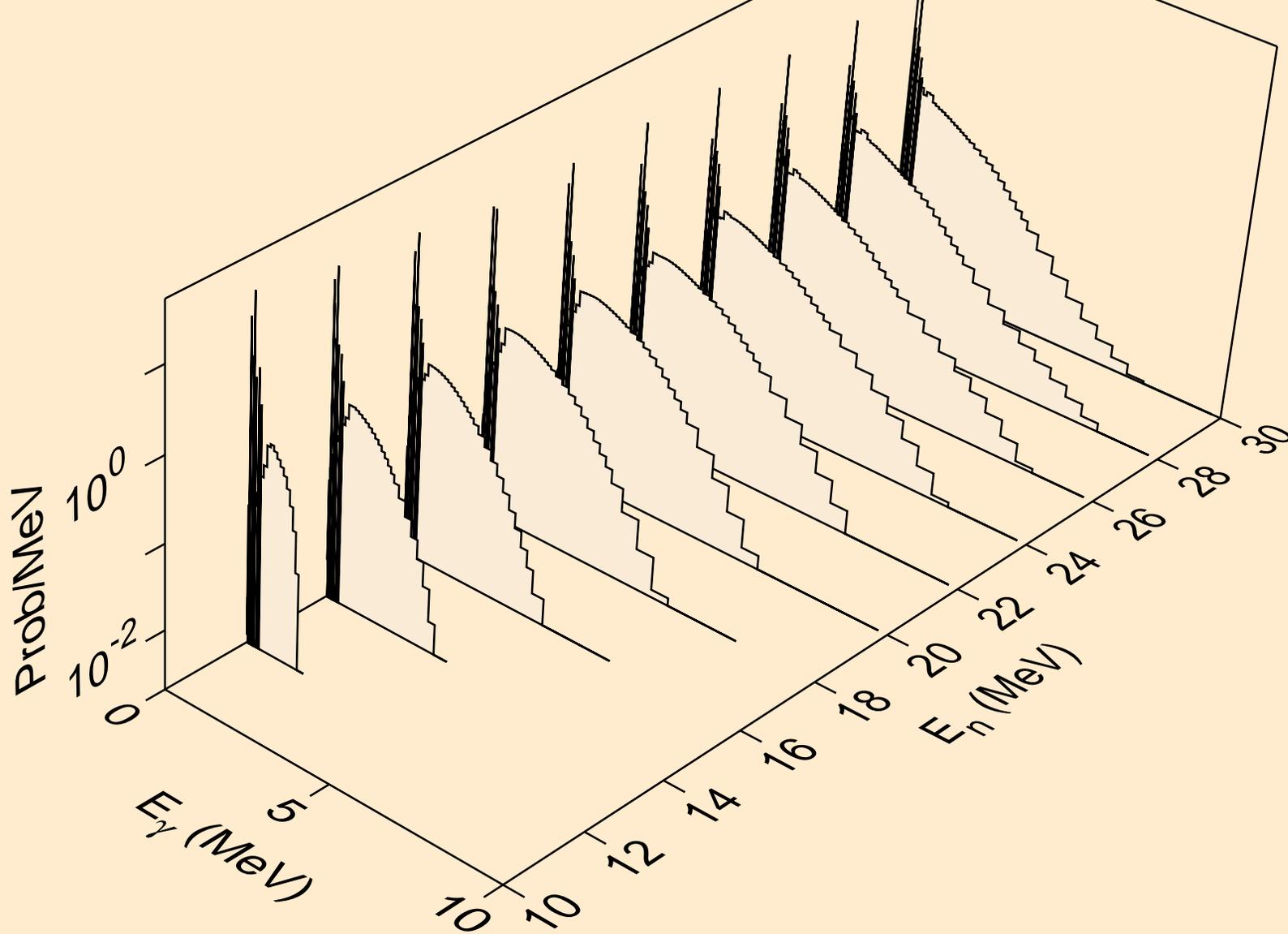
IR191 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
Alpha emission for inelastic



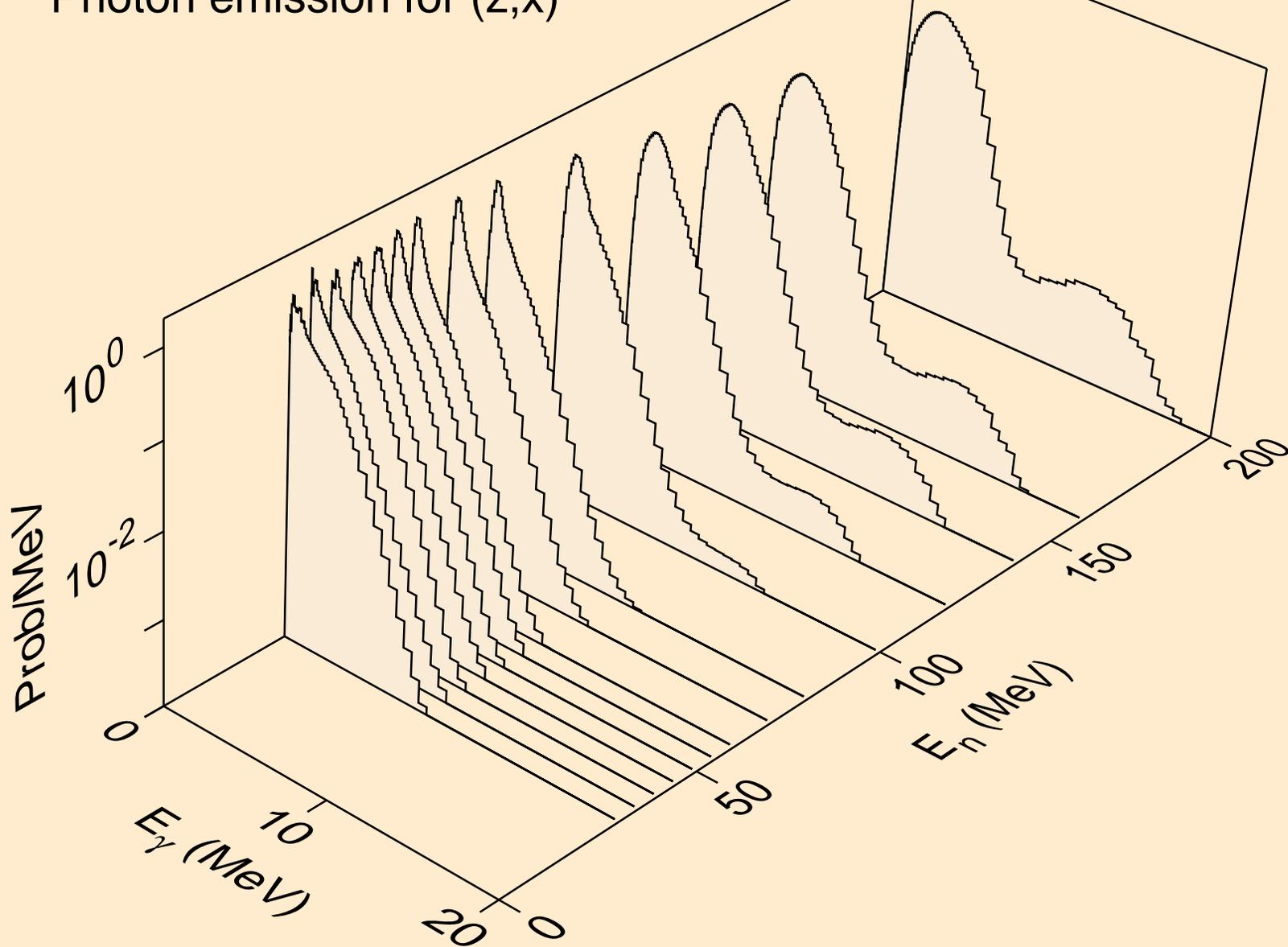
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Alpha emission for (a,pa)



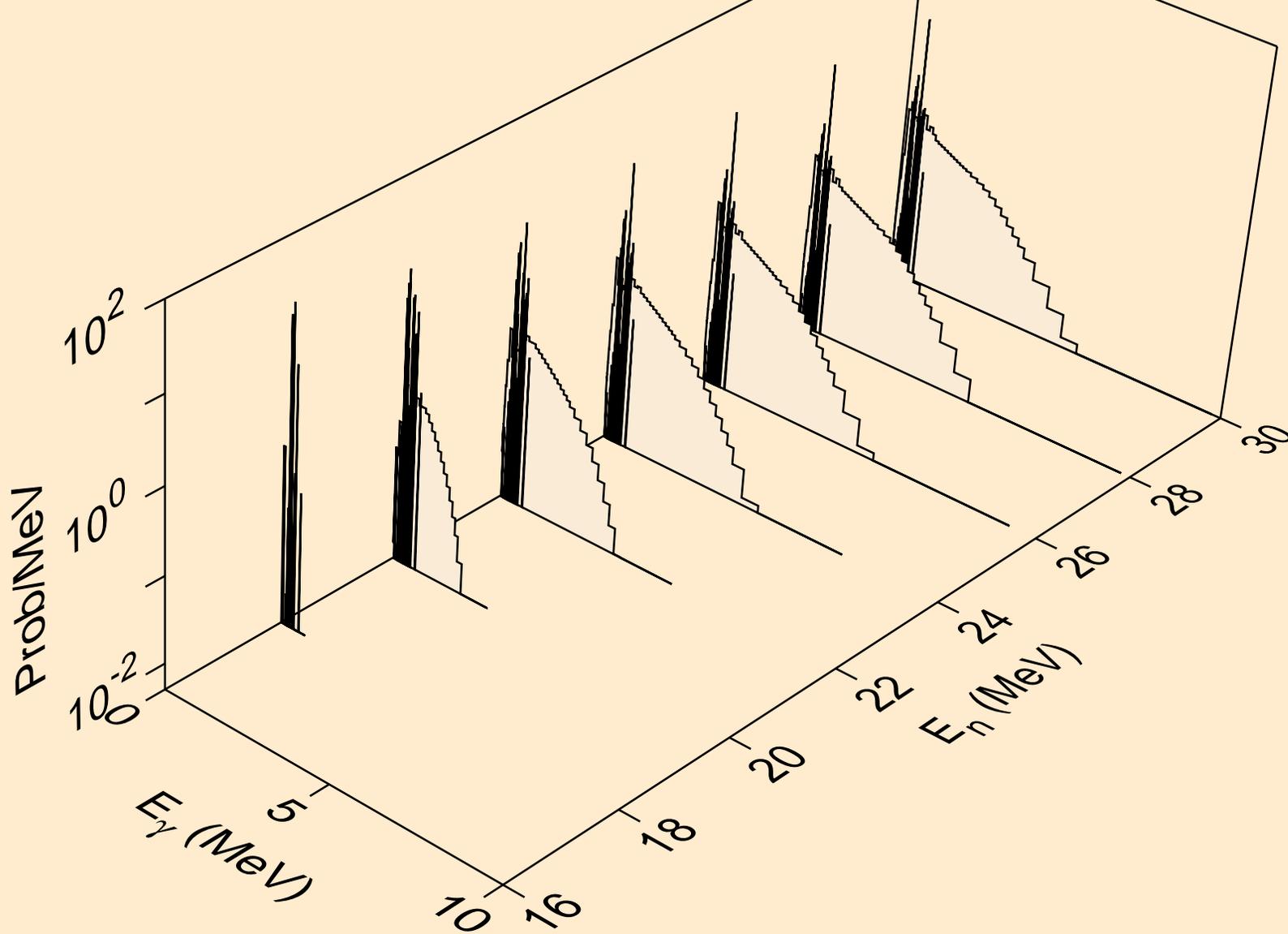
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Photon emission for (z,n)



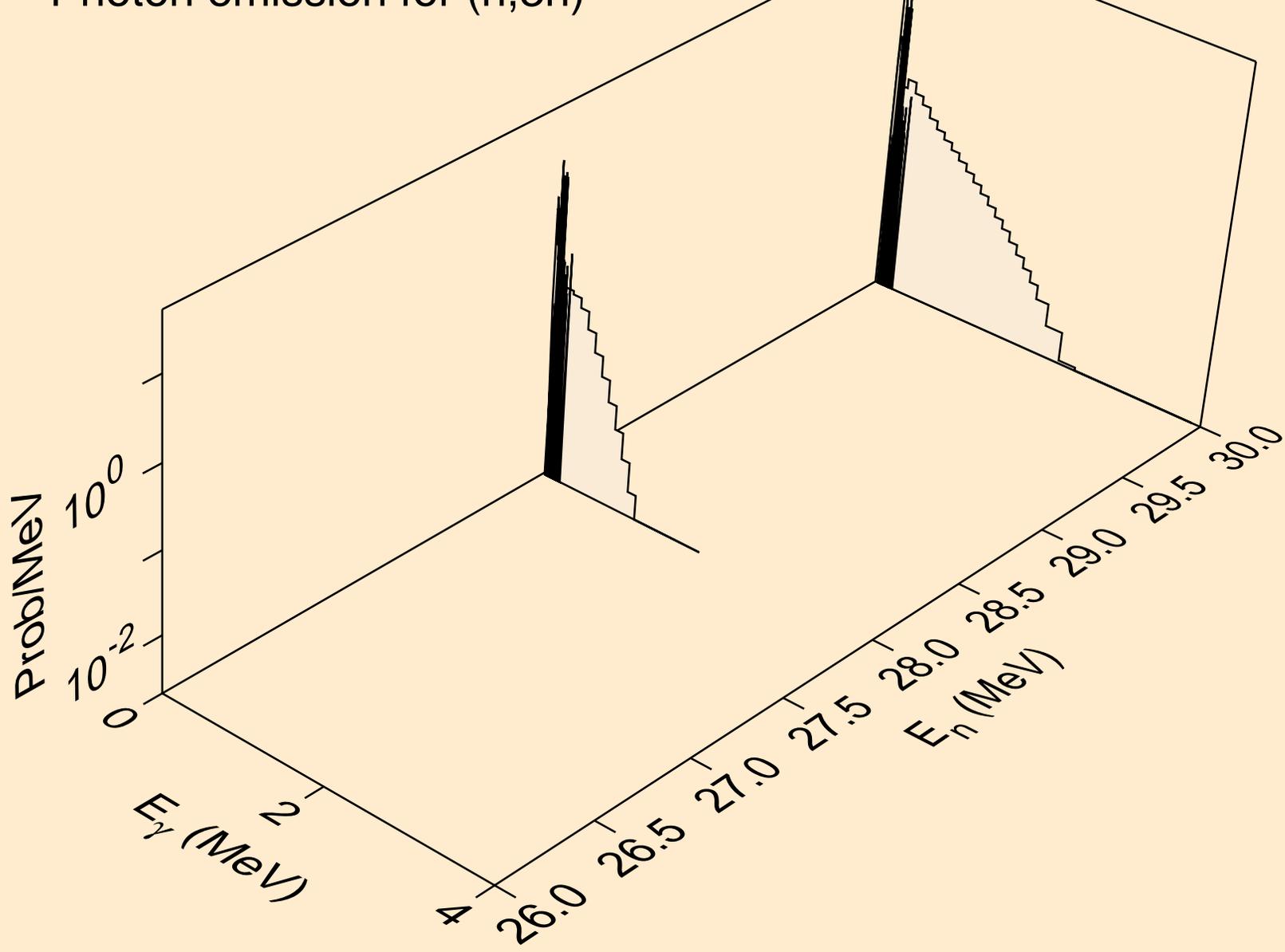
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Photon emission for (z,x)



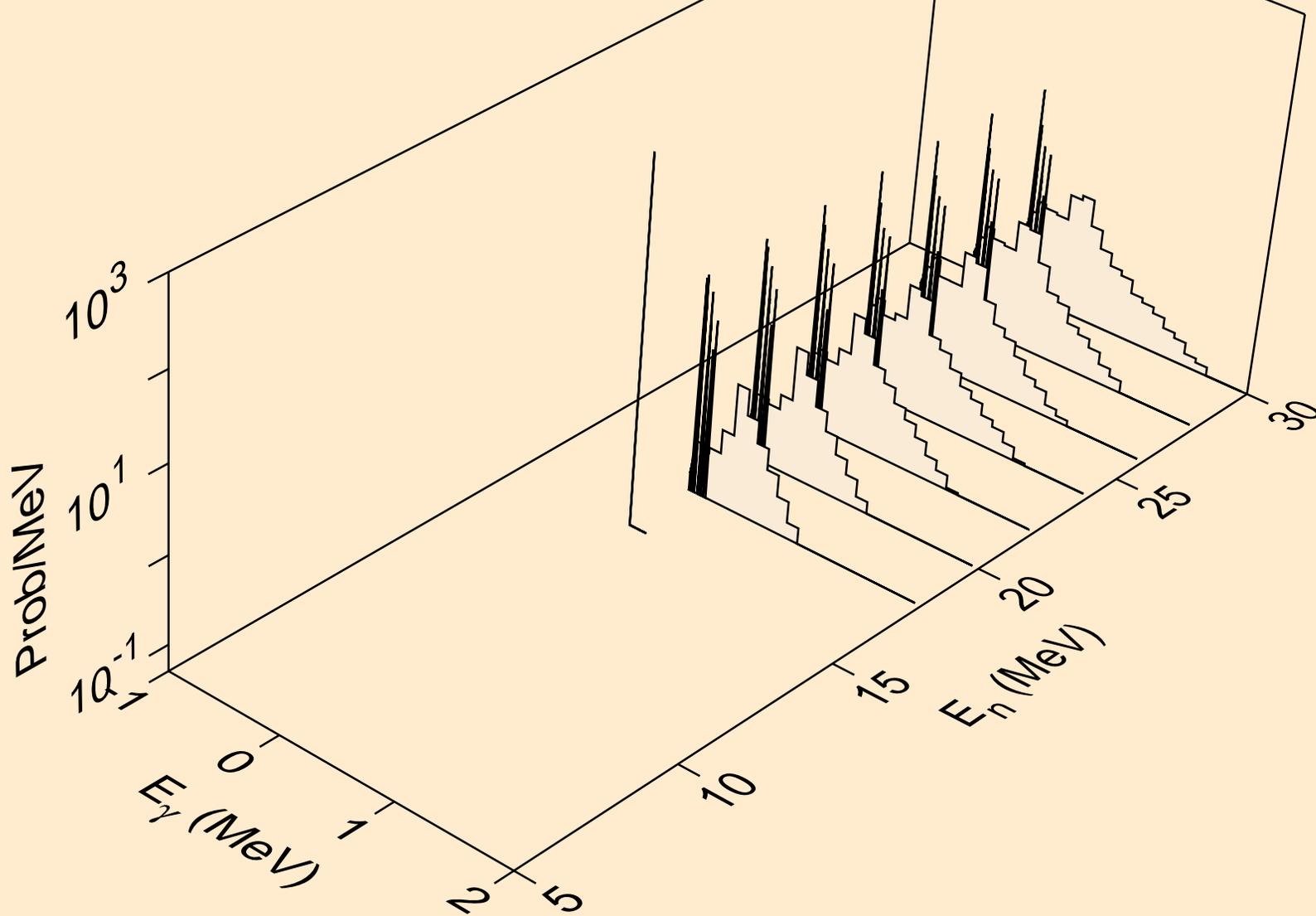
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Photon emission for (n,2n)



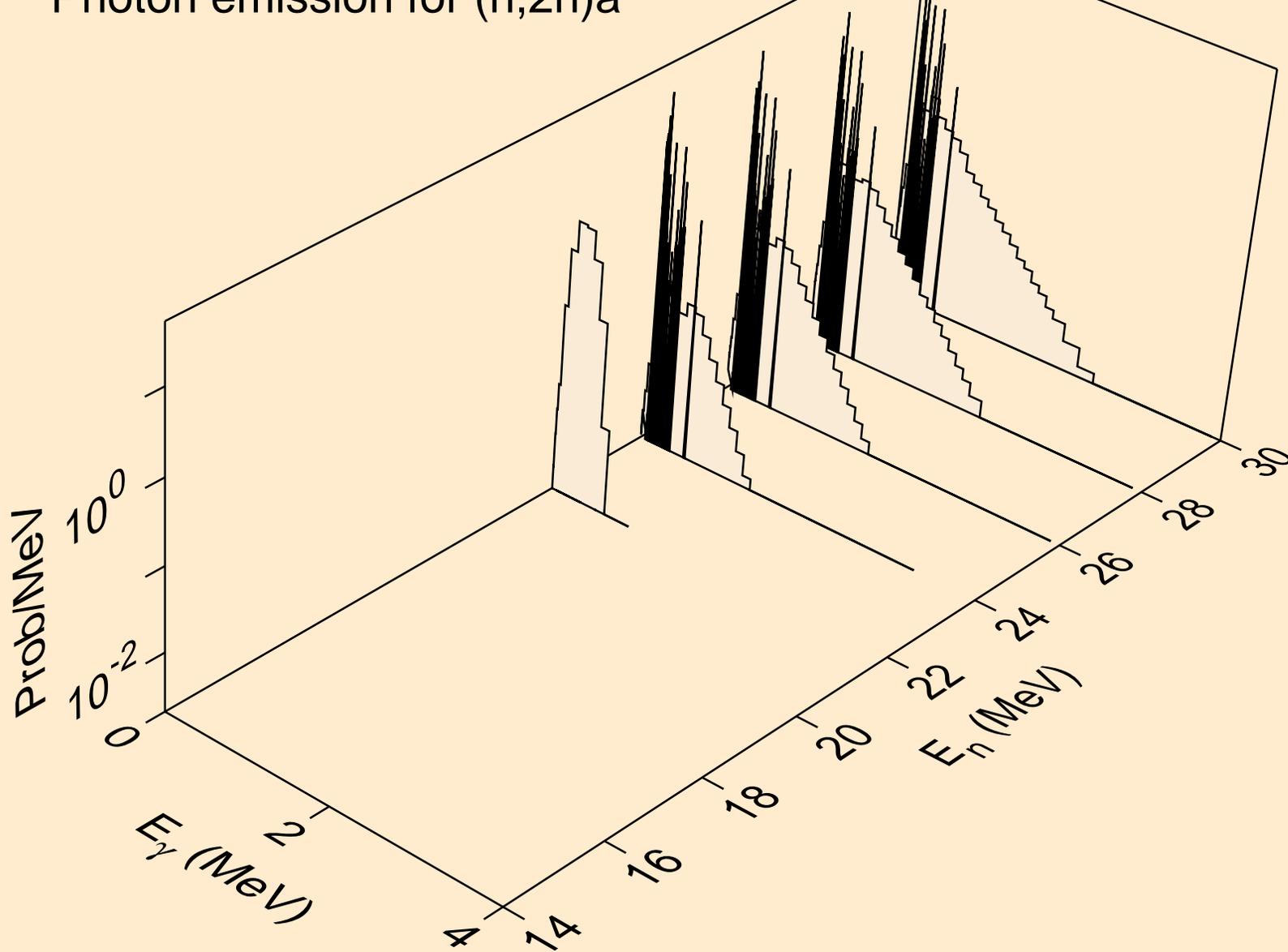
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Photon emission for (n,3n)



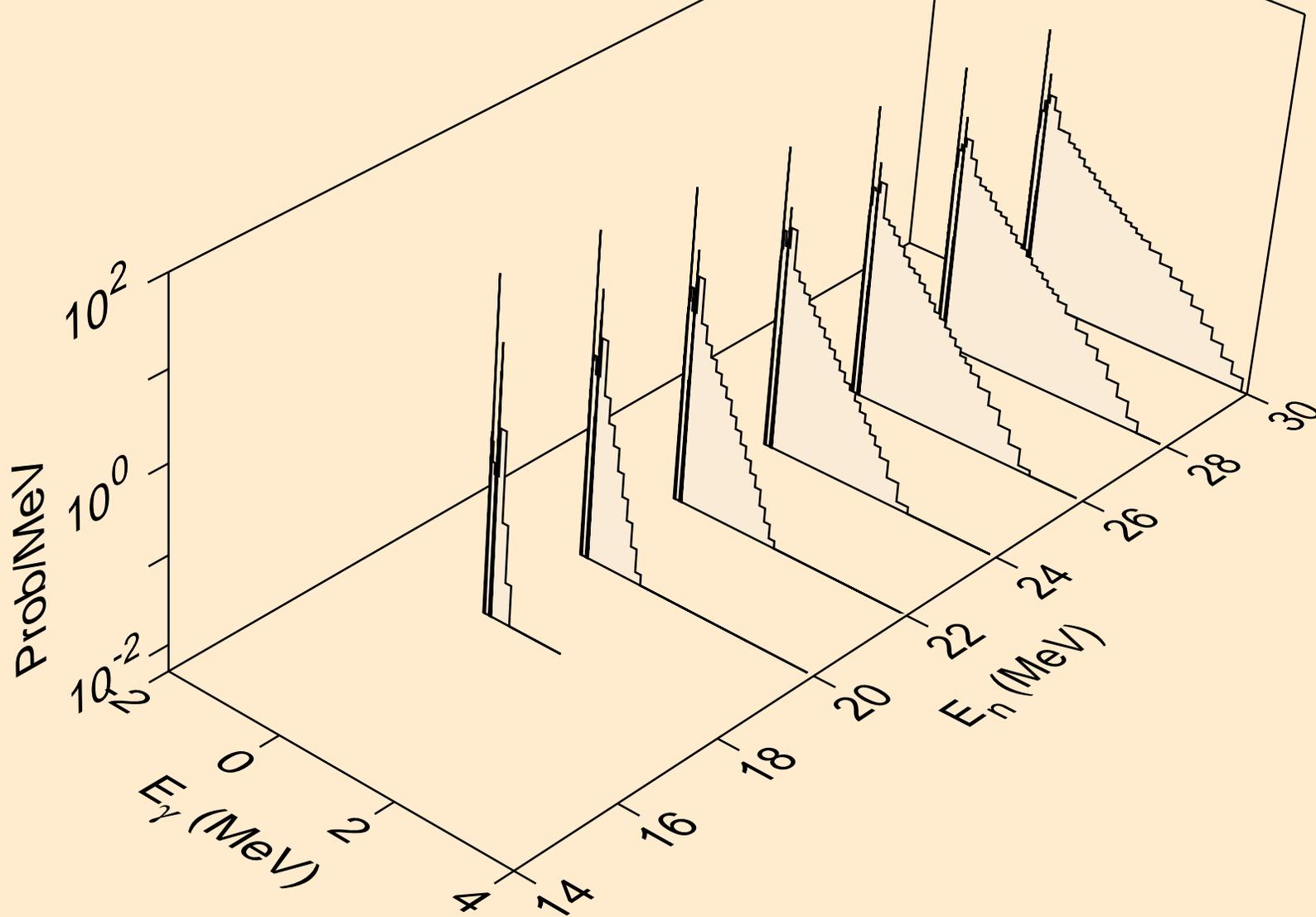
IR191 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)a



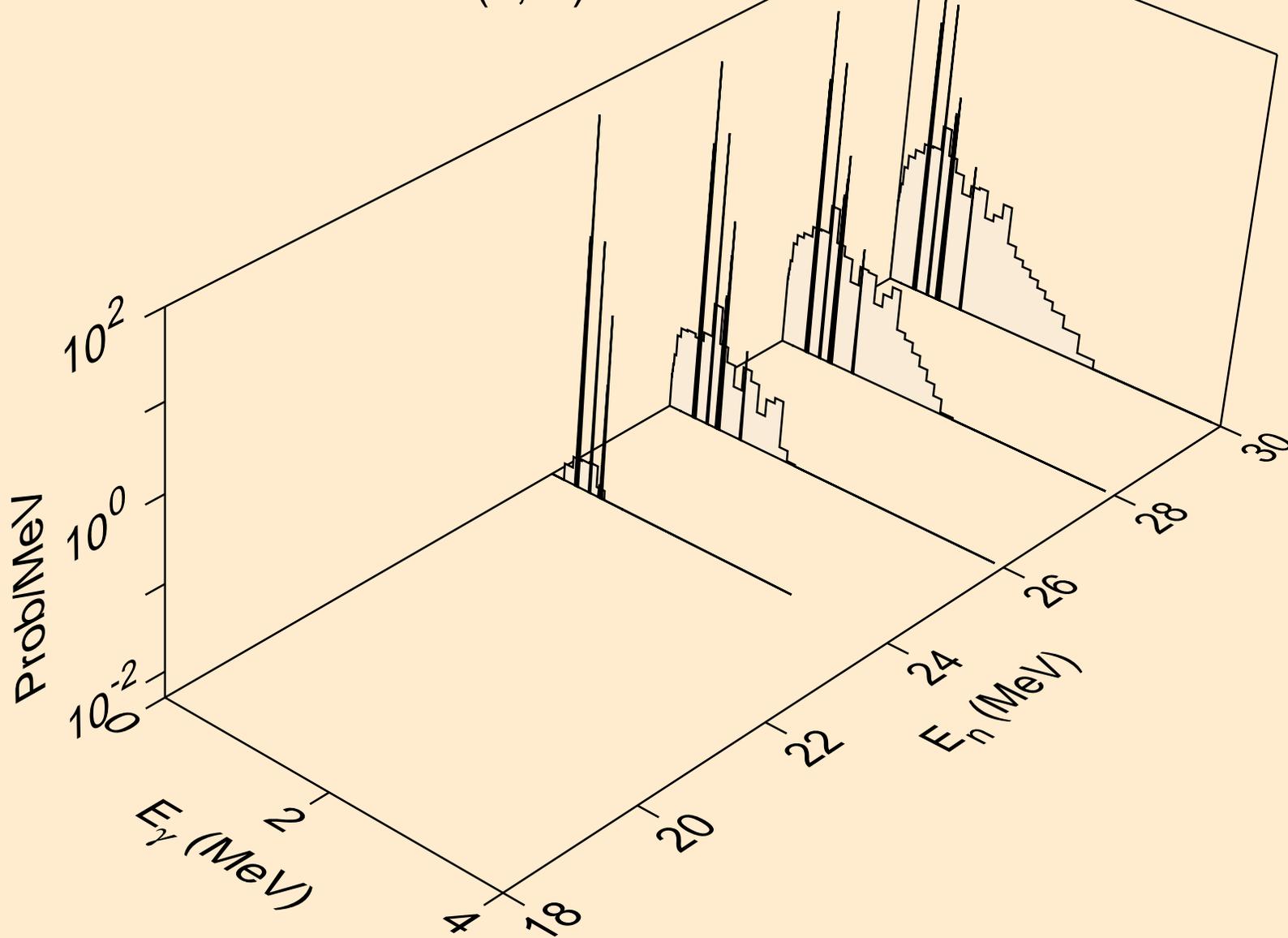
IR191 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2n)a



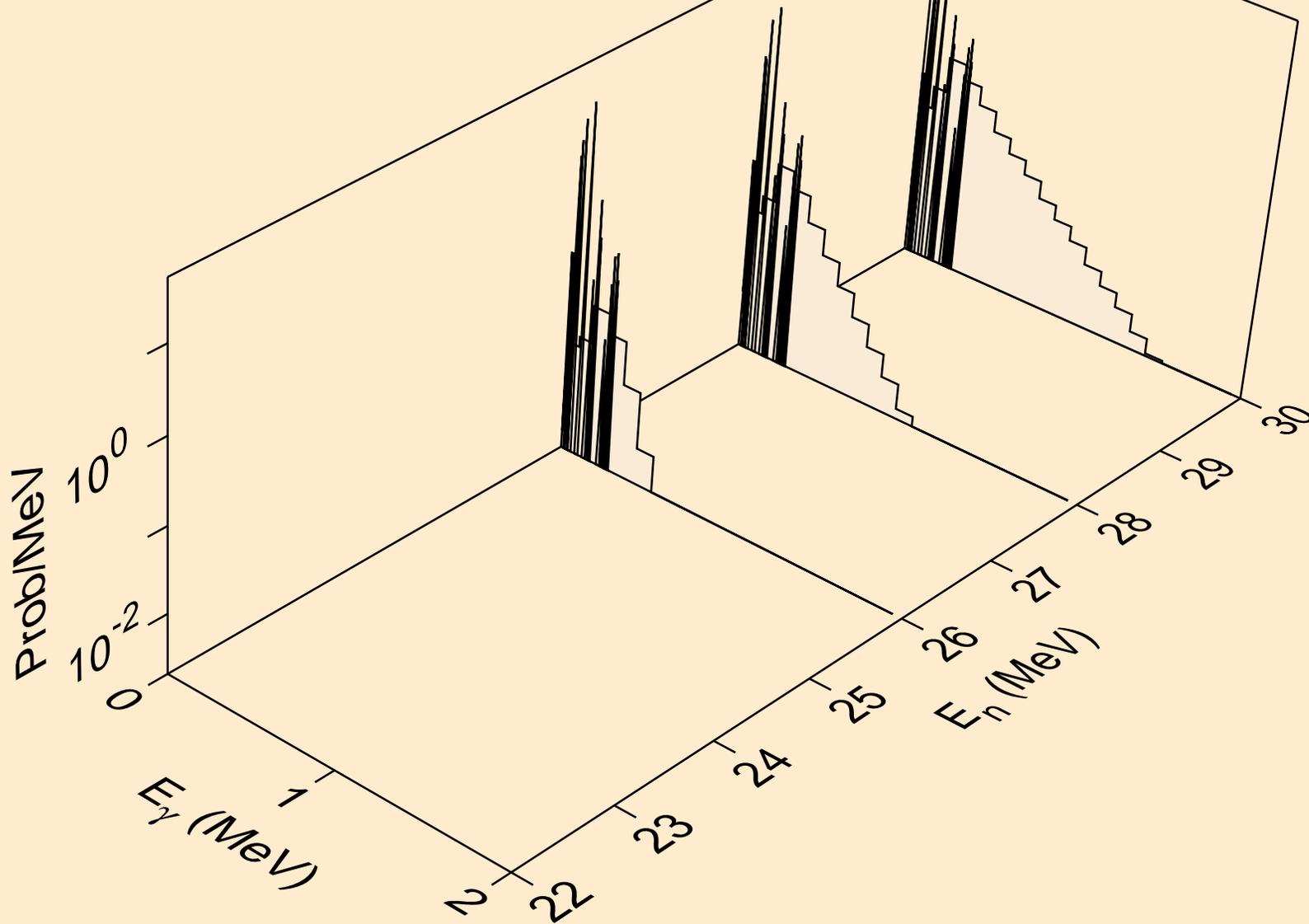
IR191 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)p



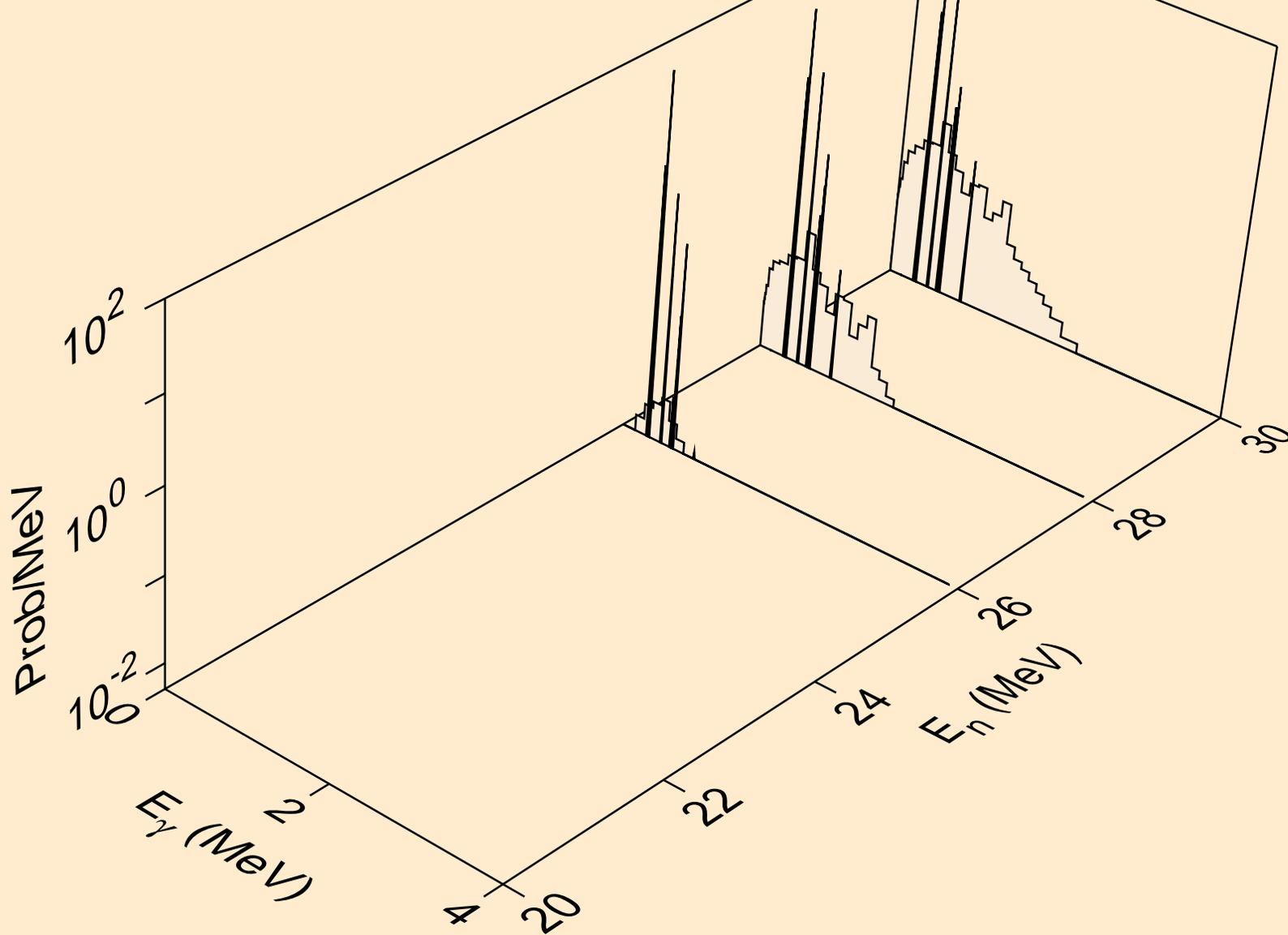
IR191 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)d



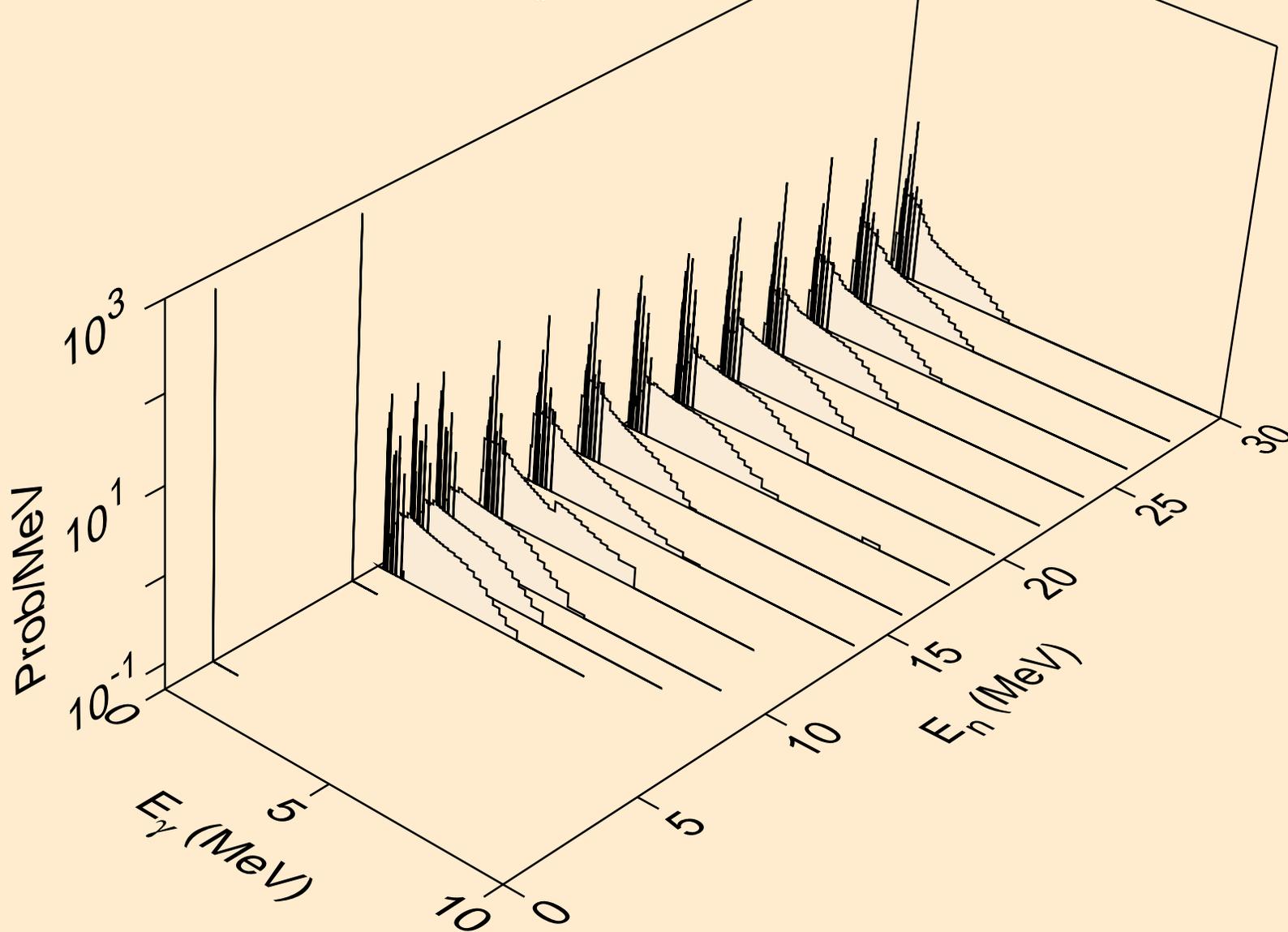
IR191 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)t



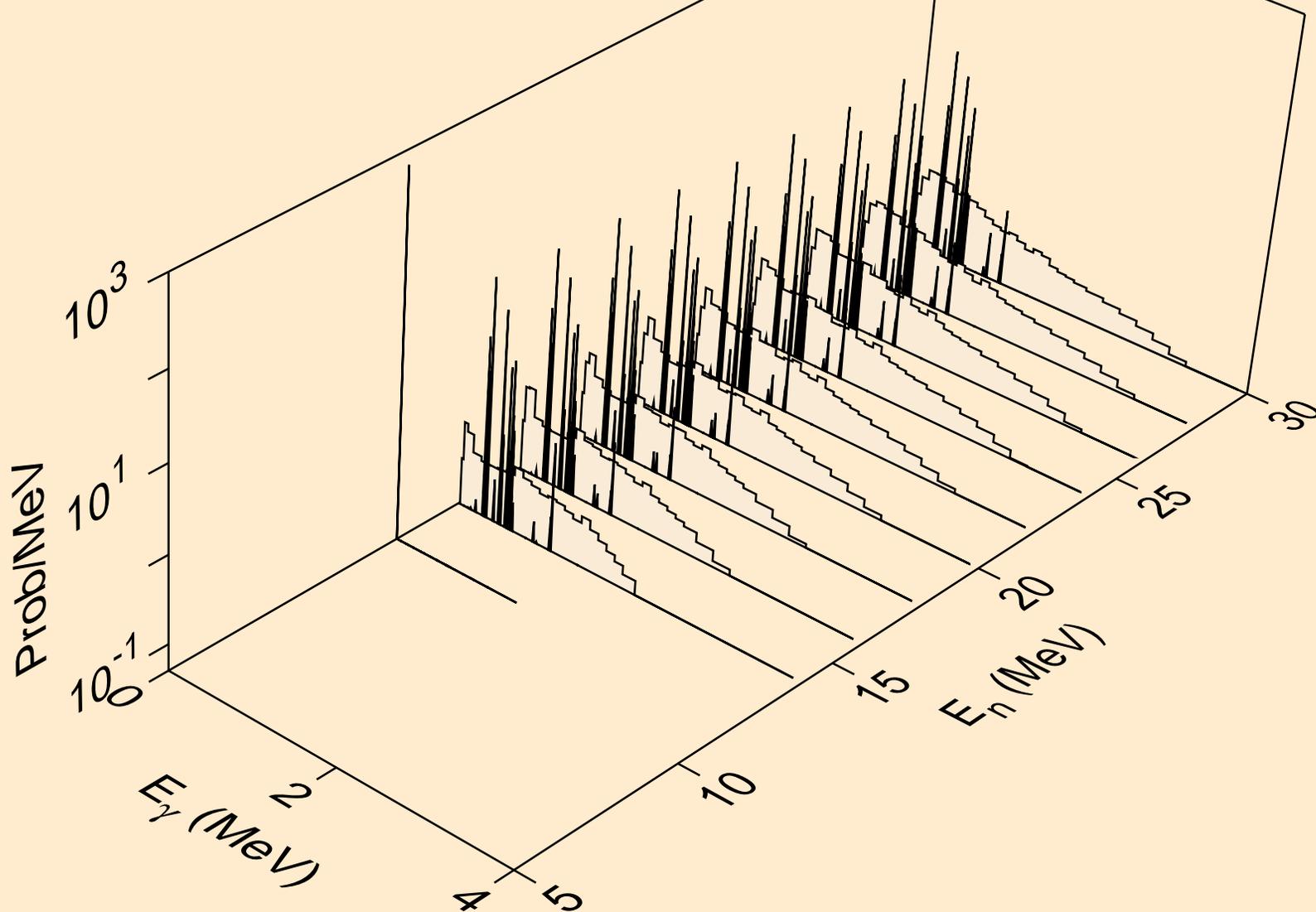
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Photon emission for (n,2np)



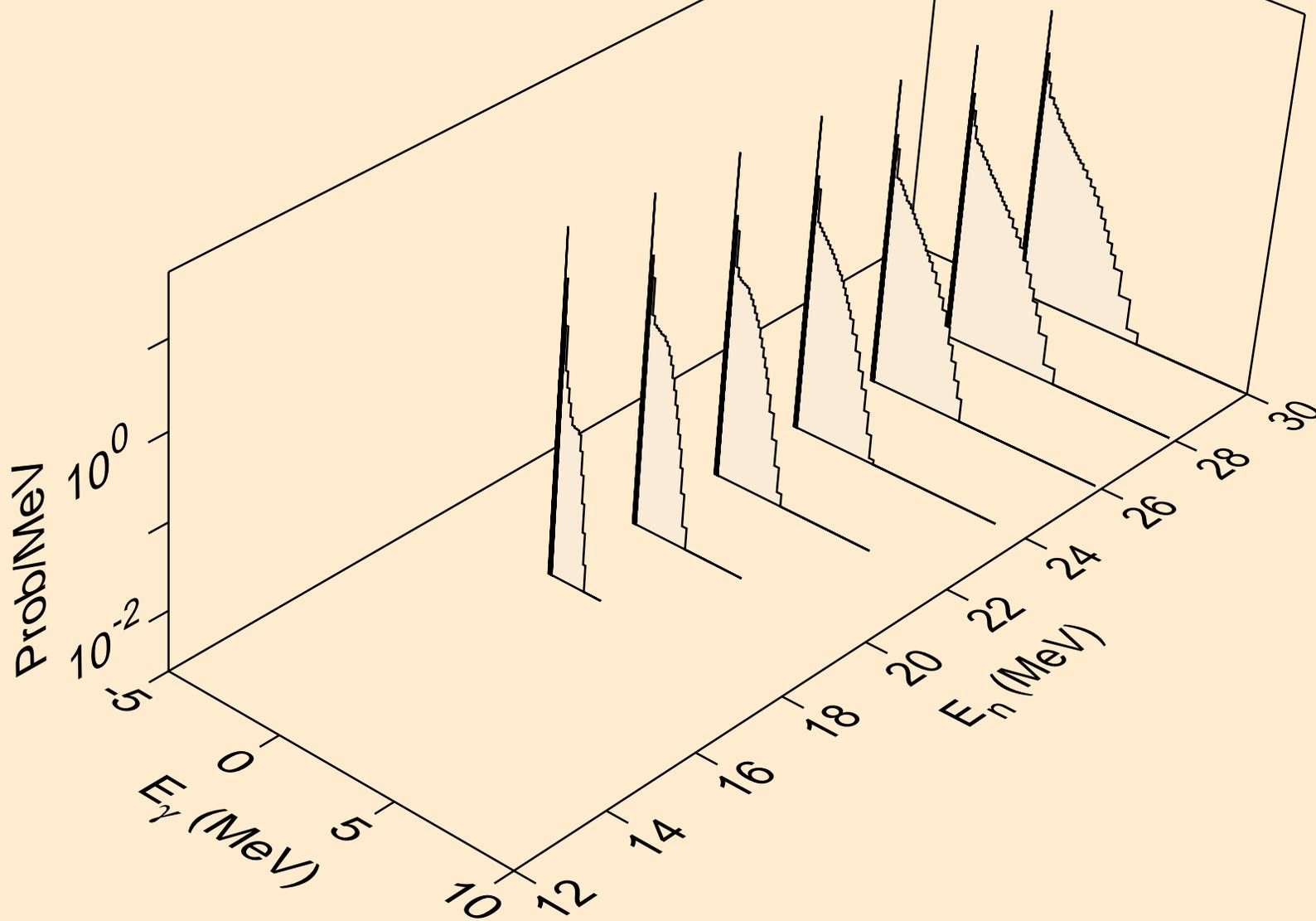
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Photon emission for (n,gma)



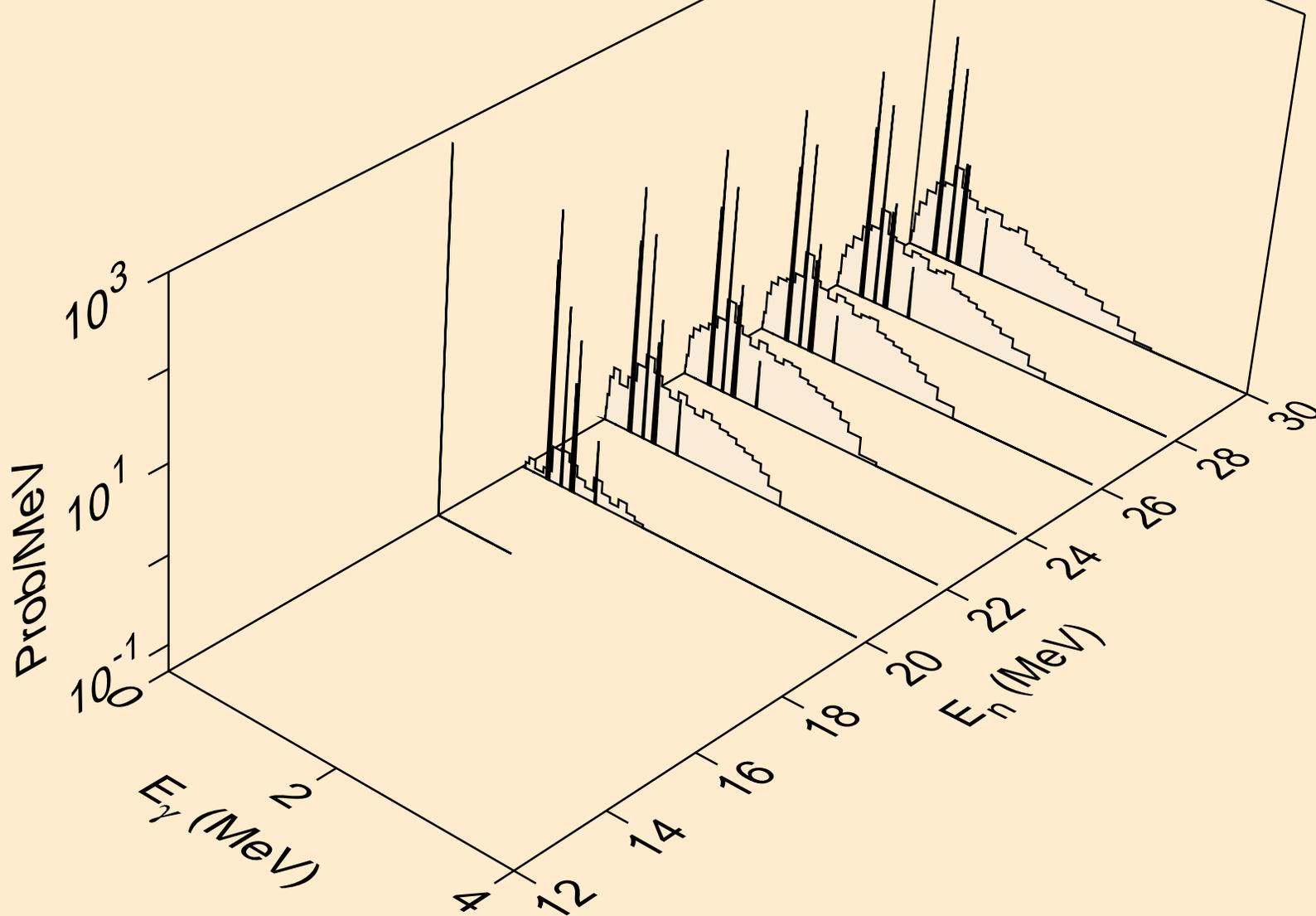
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Photon emission for (n,p)



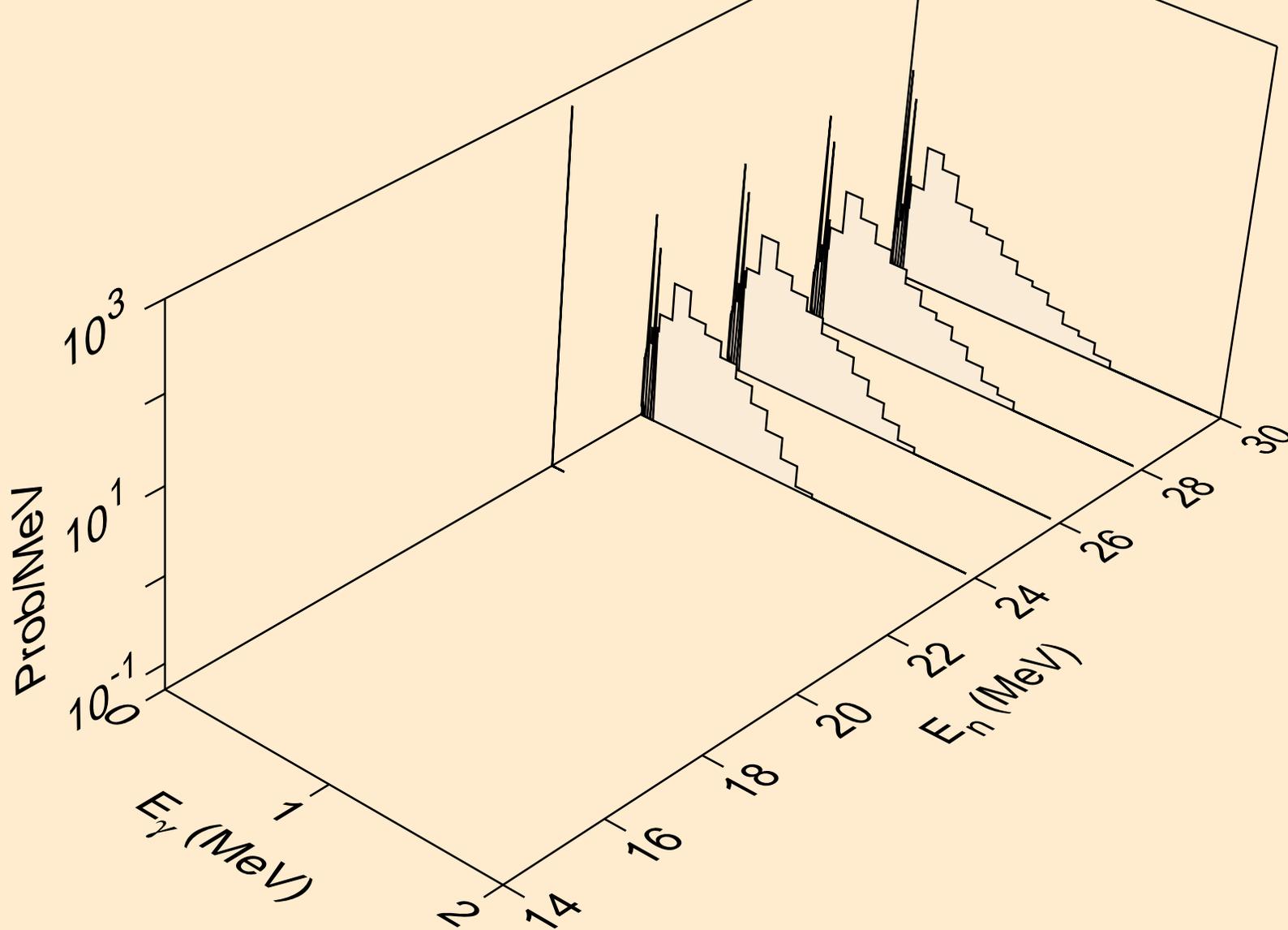
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Photon emission for (n,d)



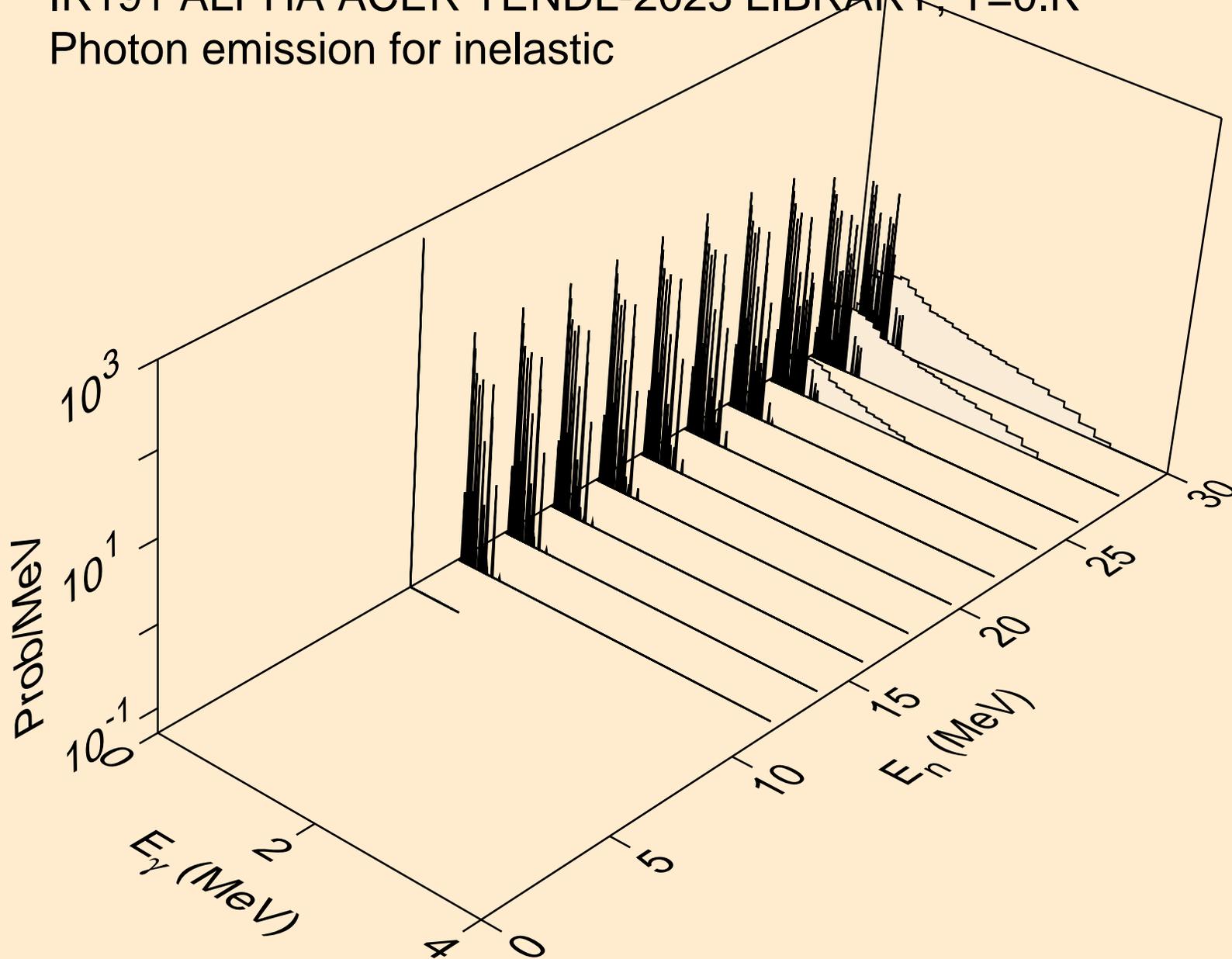
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Photon emission for (n,t)



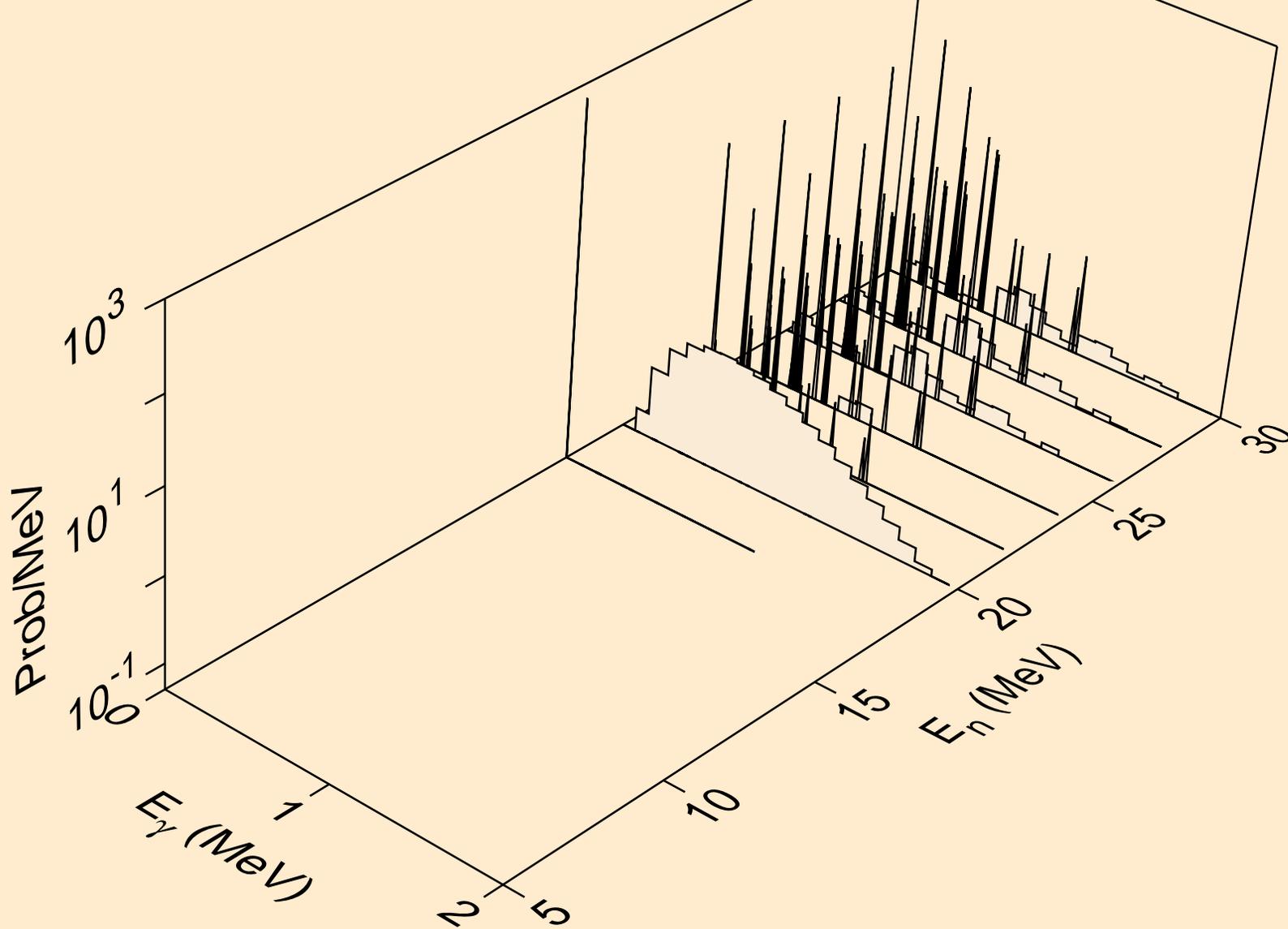
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Photon emission for (n,he3)



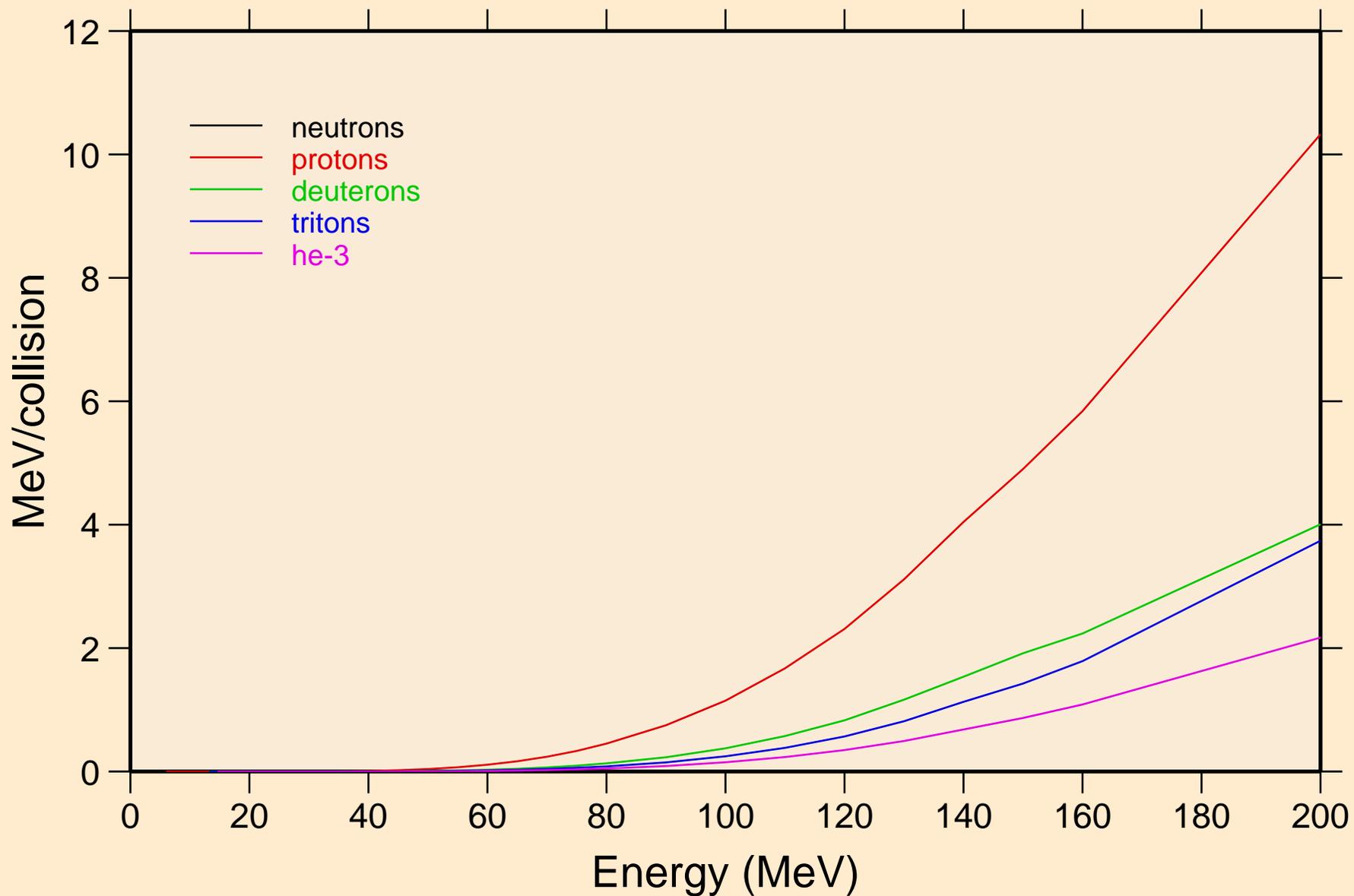
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Photon emission for inelastic



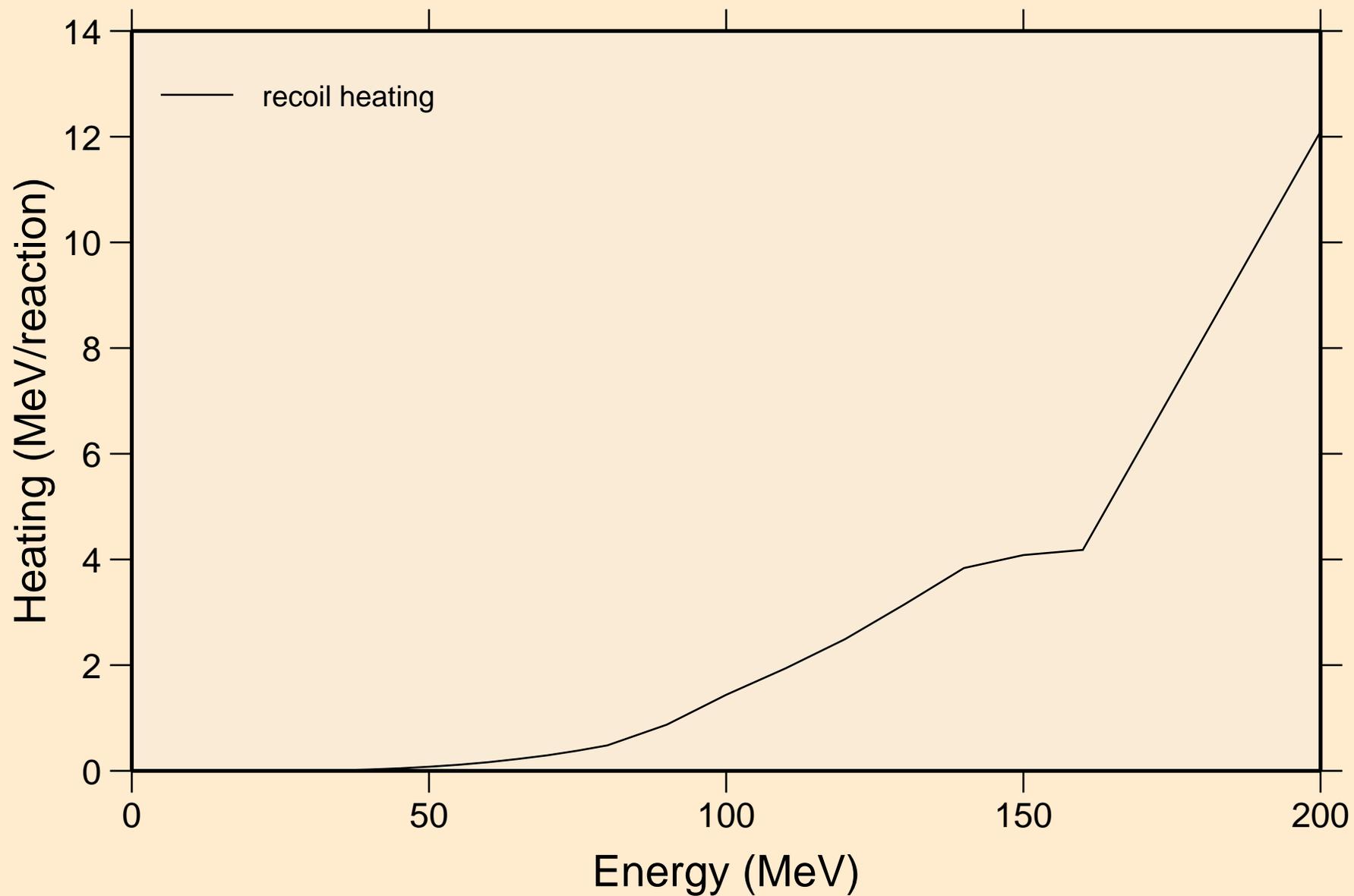
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Photon emission for (n,pa)



IR191 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
Particle heating contributions

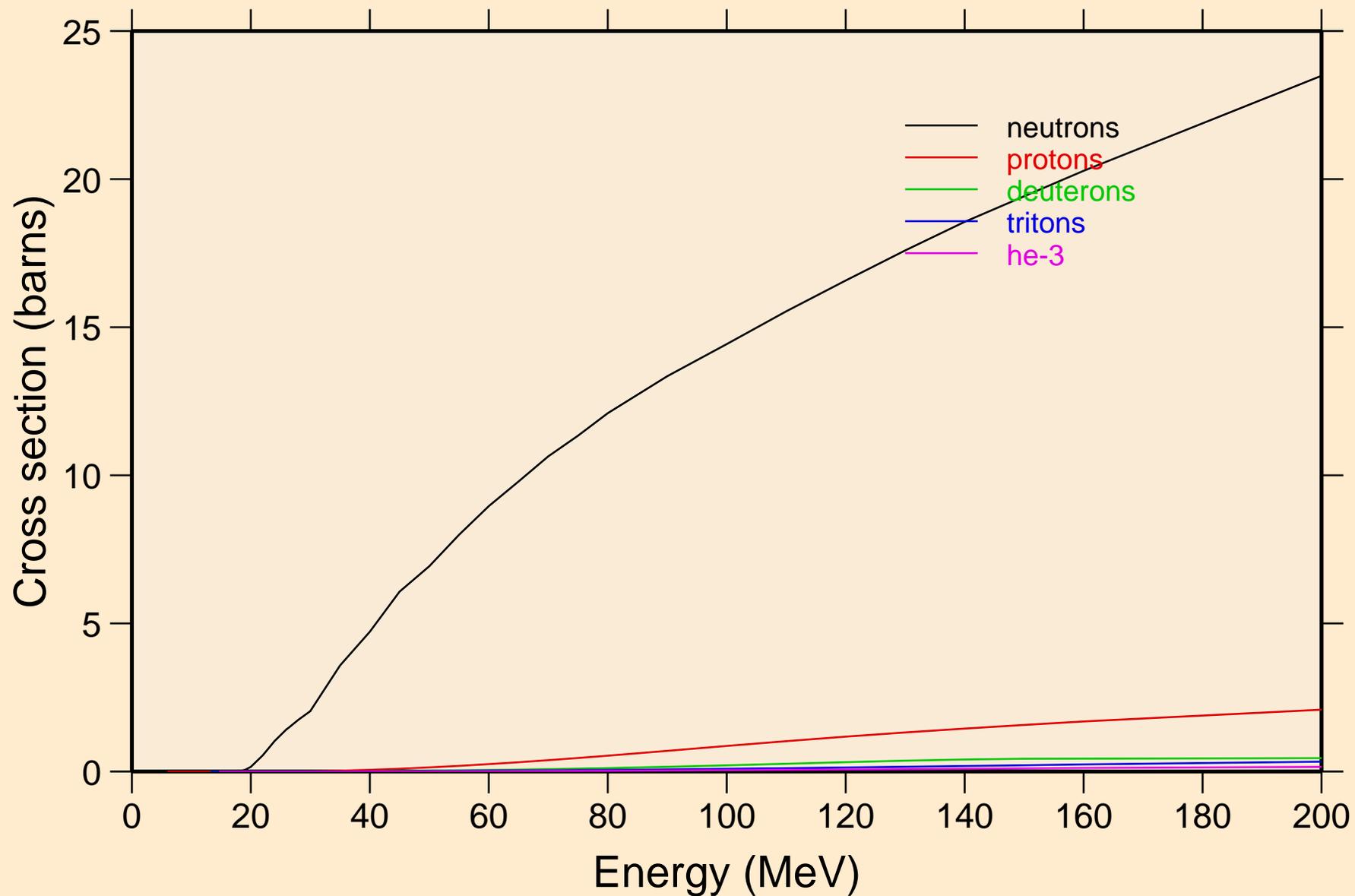


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Recoil Heating

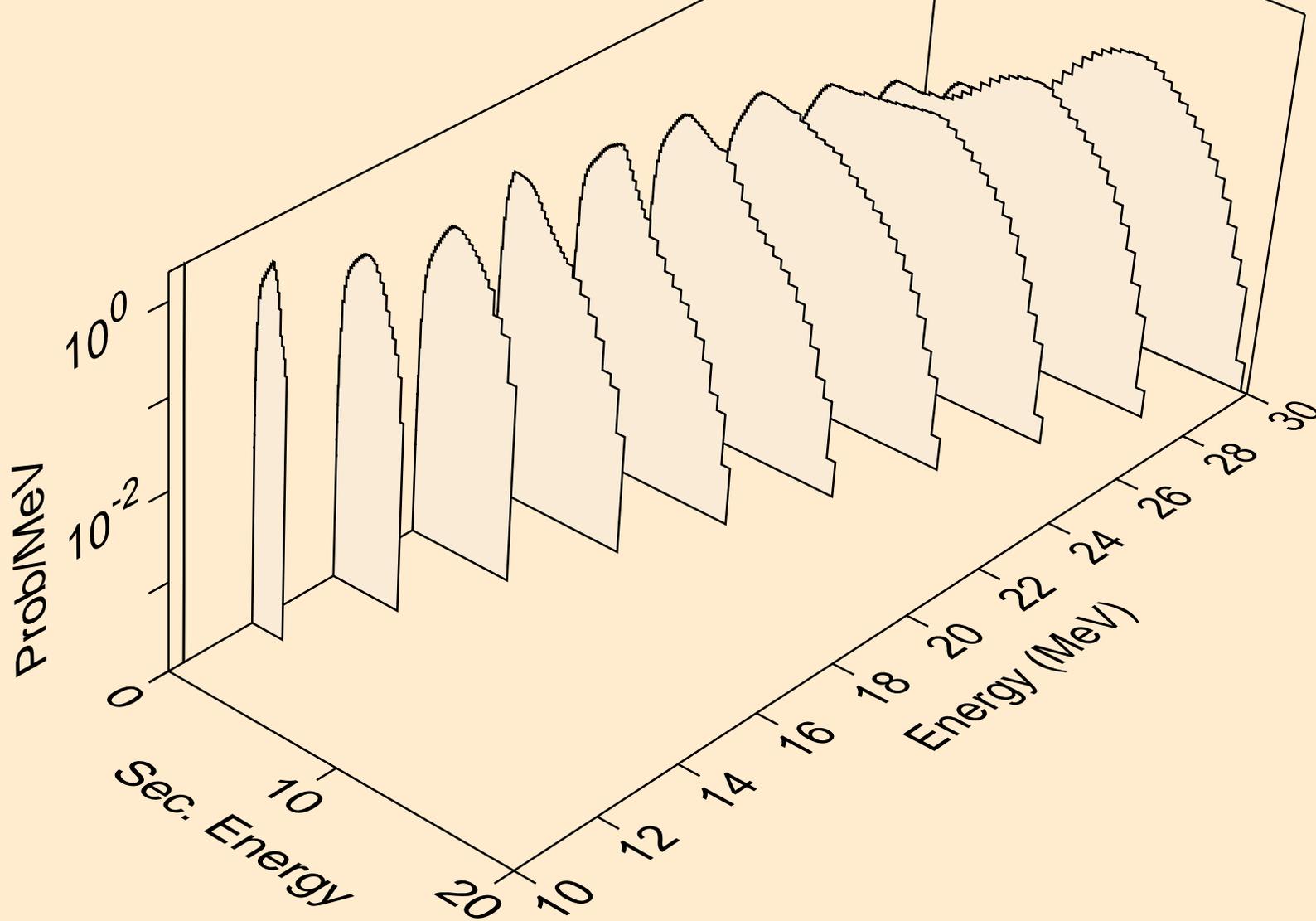


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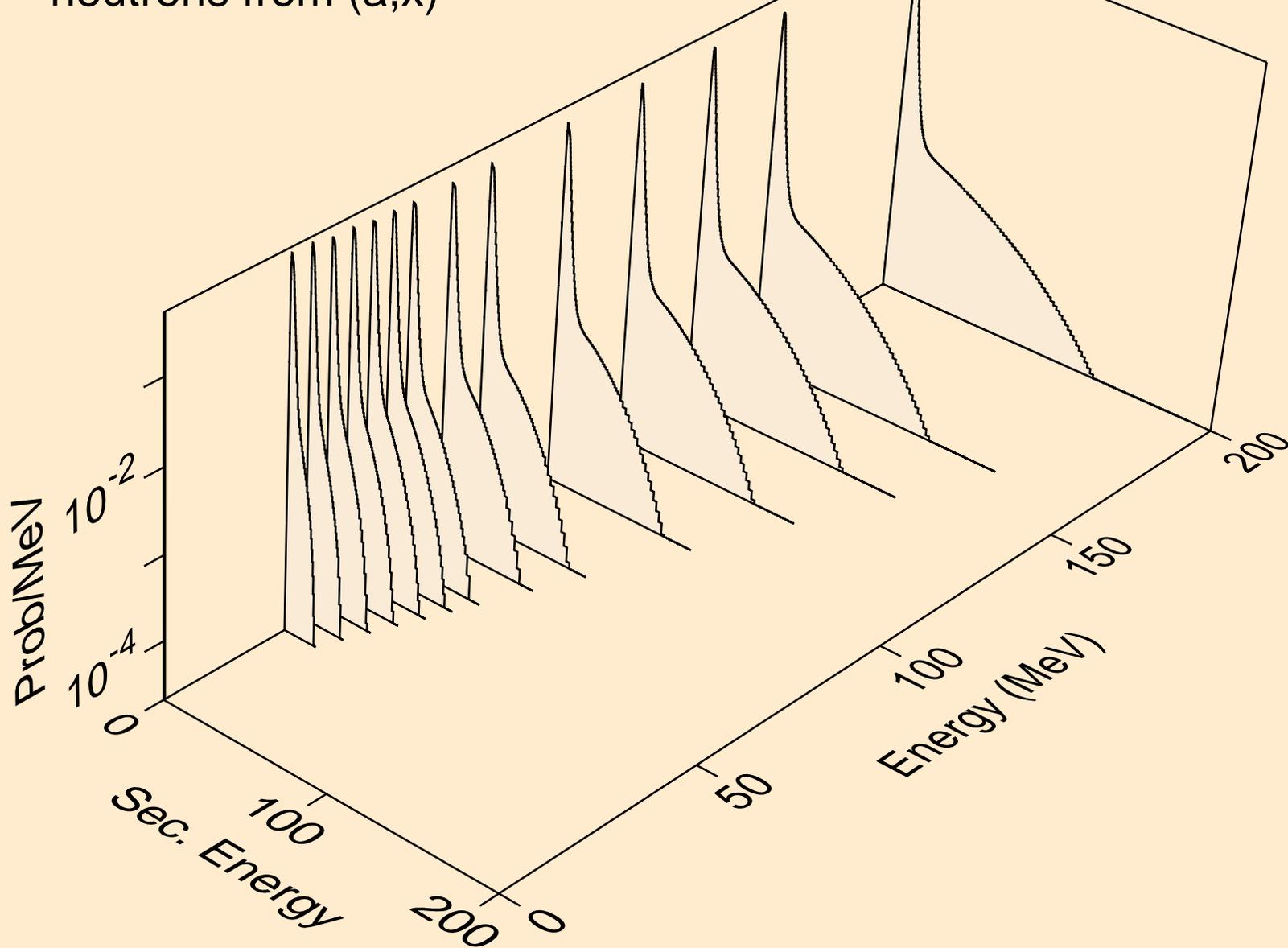
## Particle production cross sections



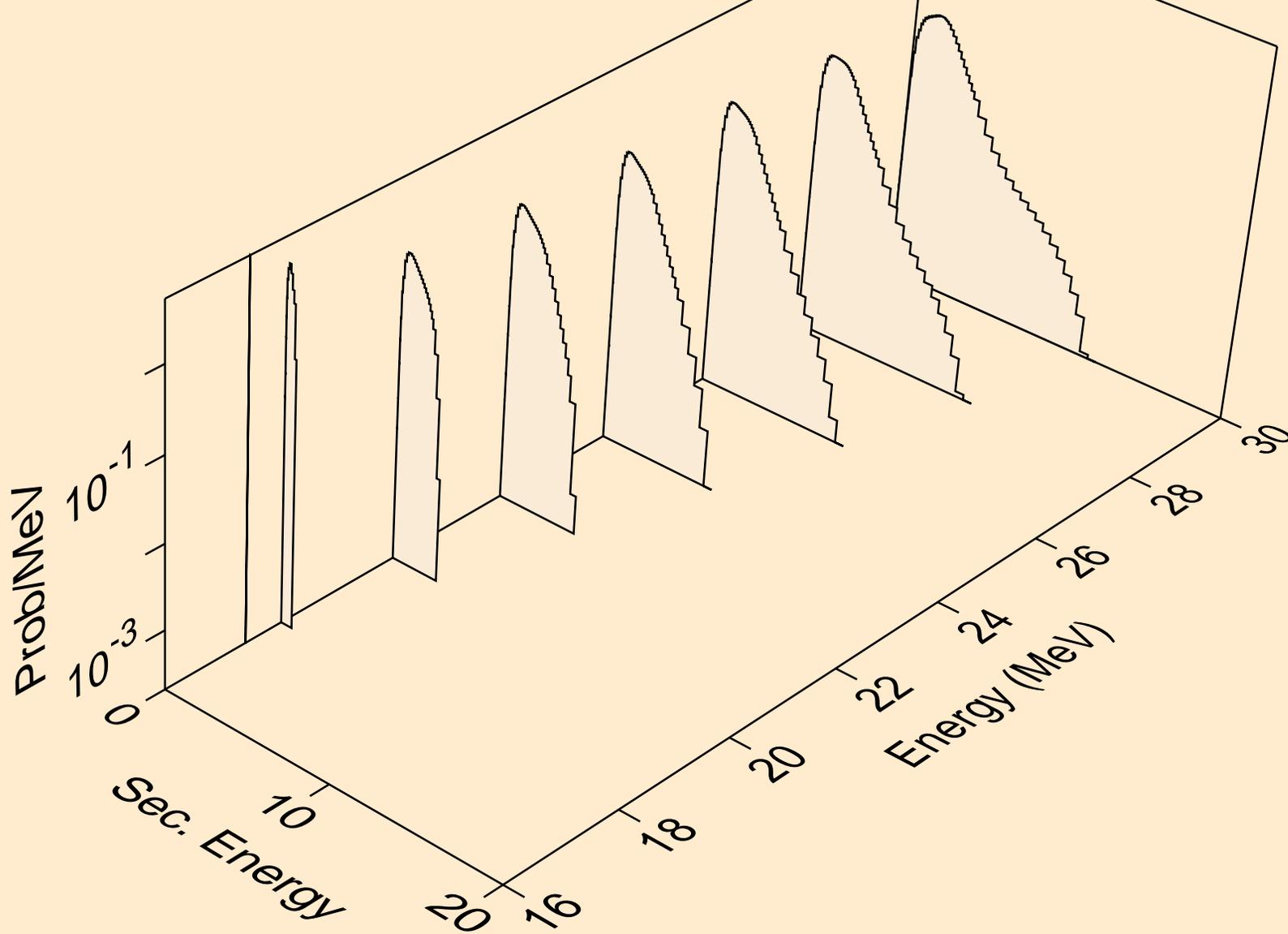
IR191 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (a,n)



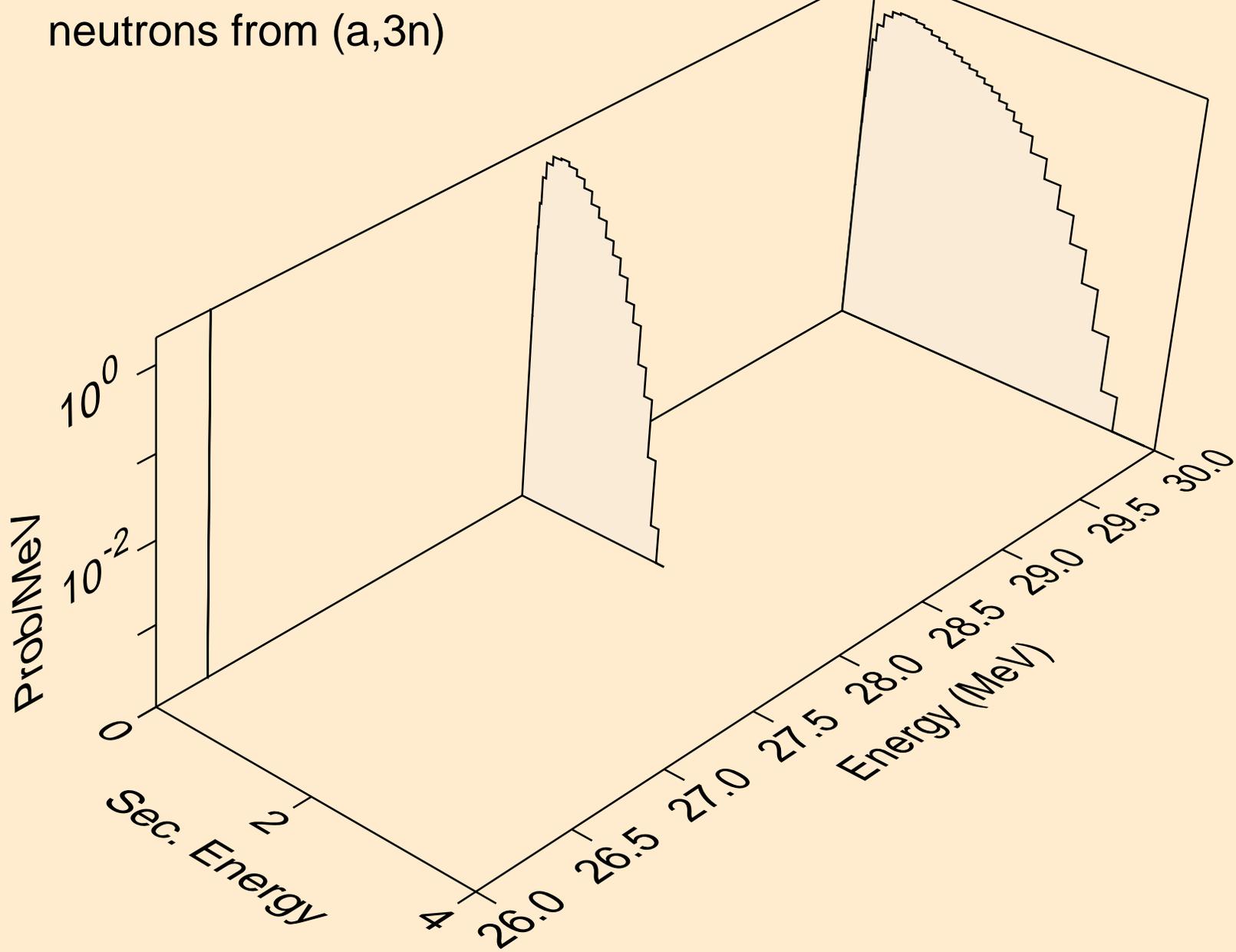
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neutrons from (a,x)



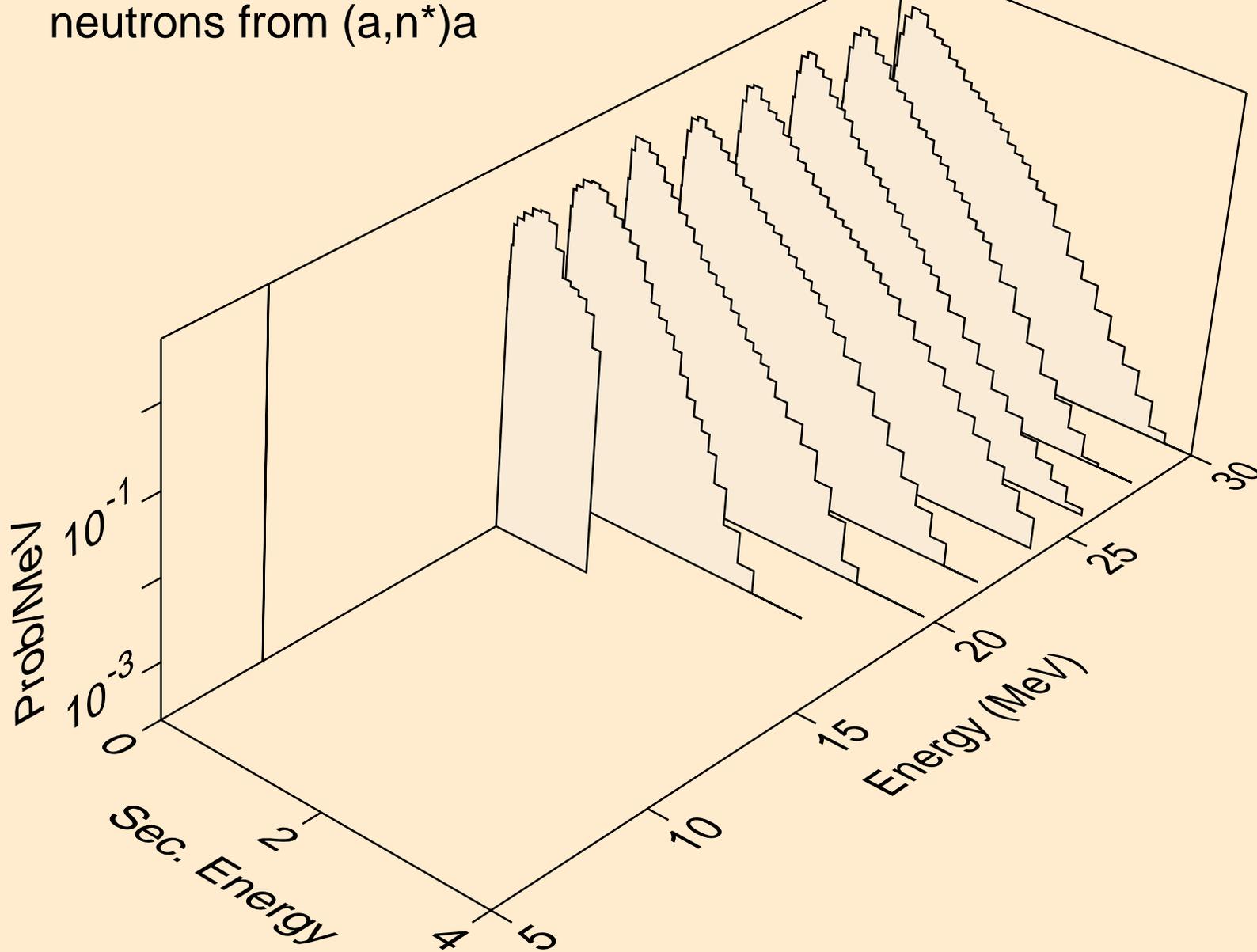
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neutrons from (a,2n)



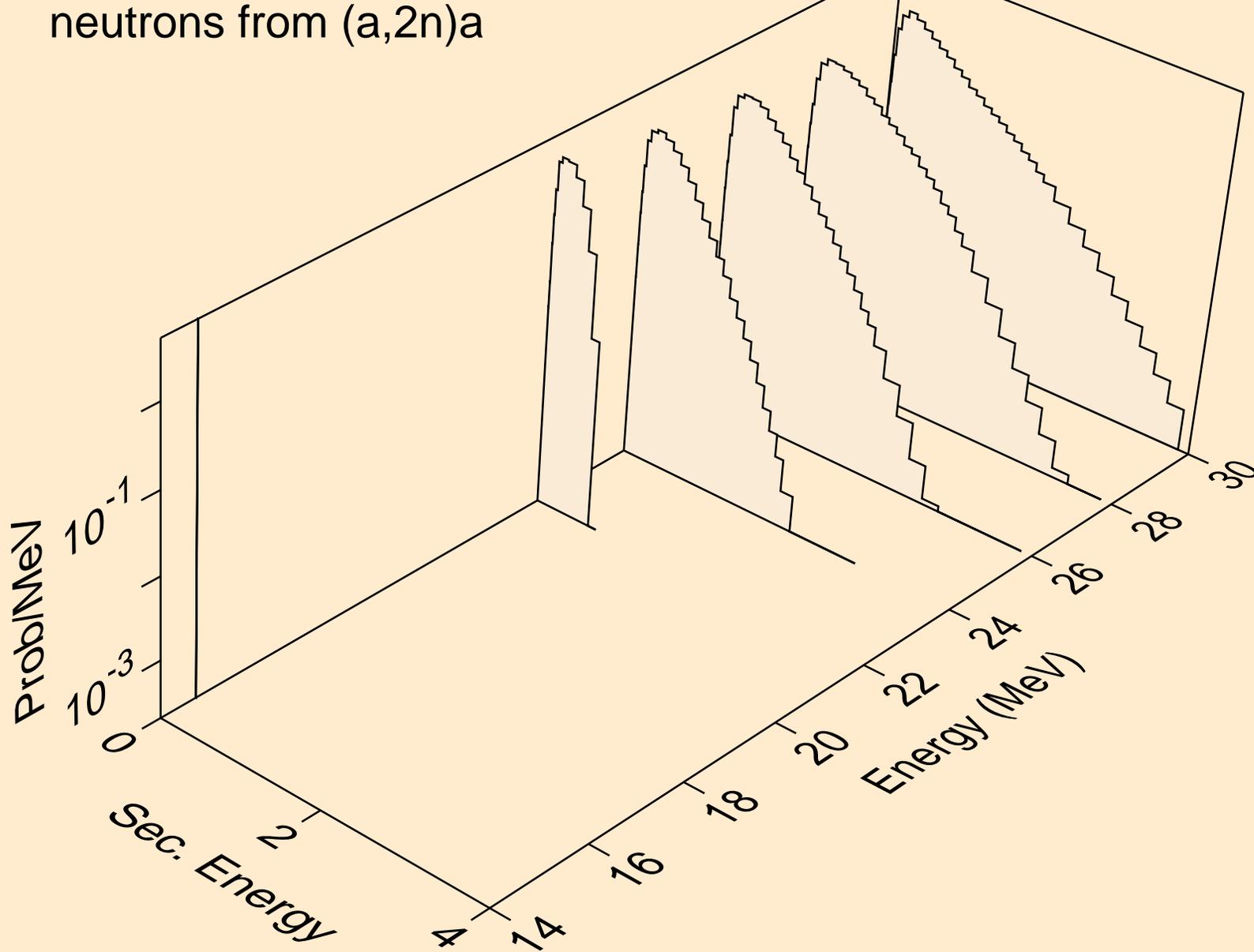
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neutrons from (a,3n)



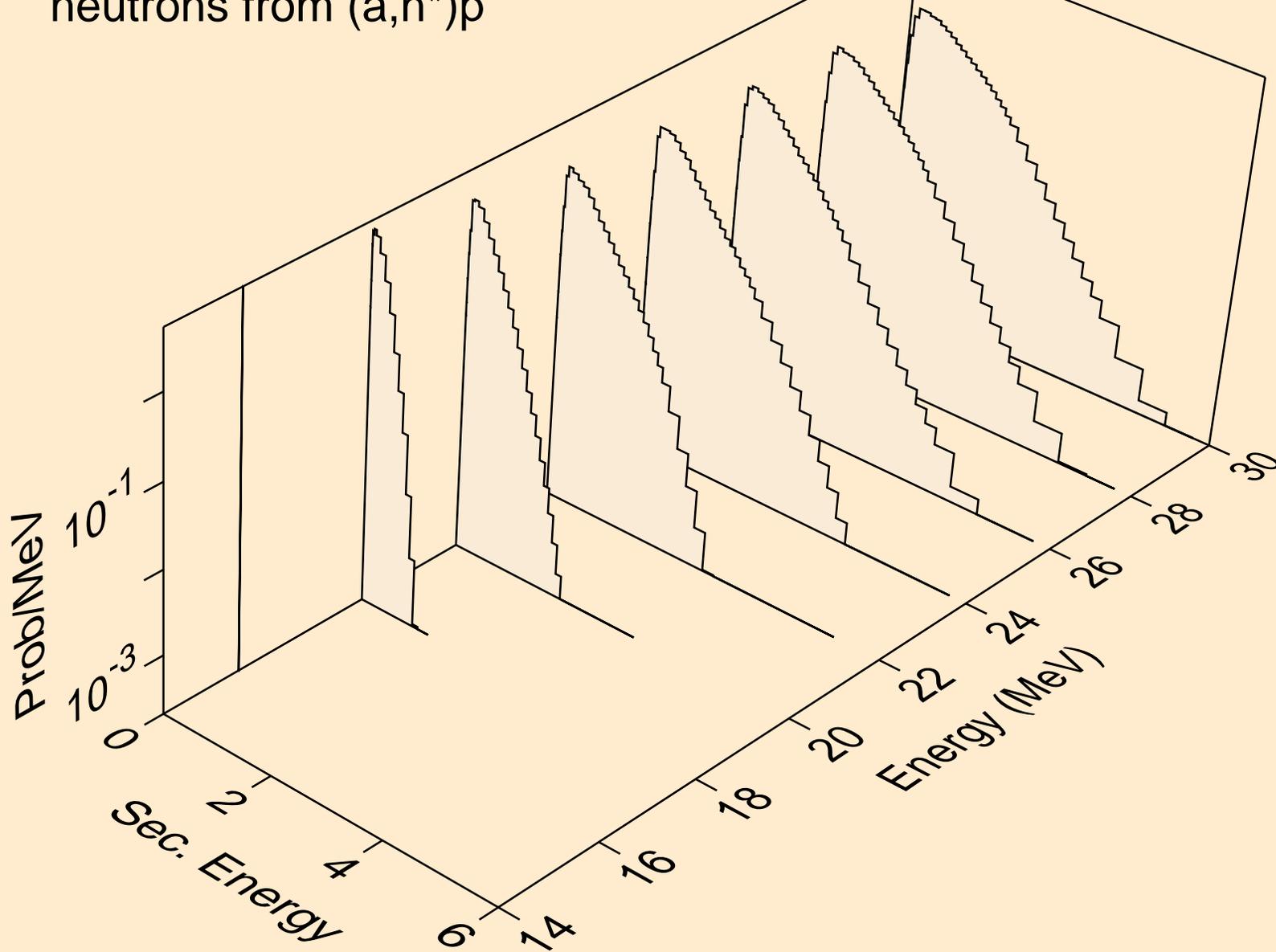
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neutrons from (a,n\*)a



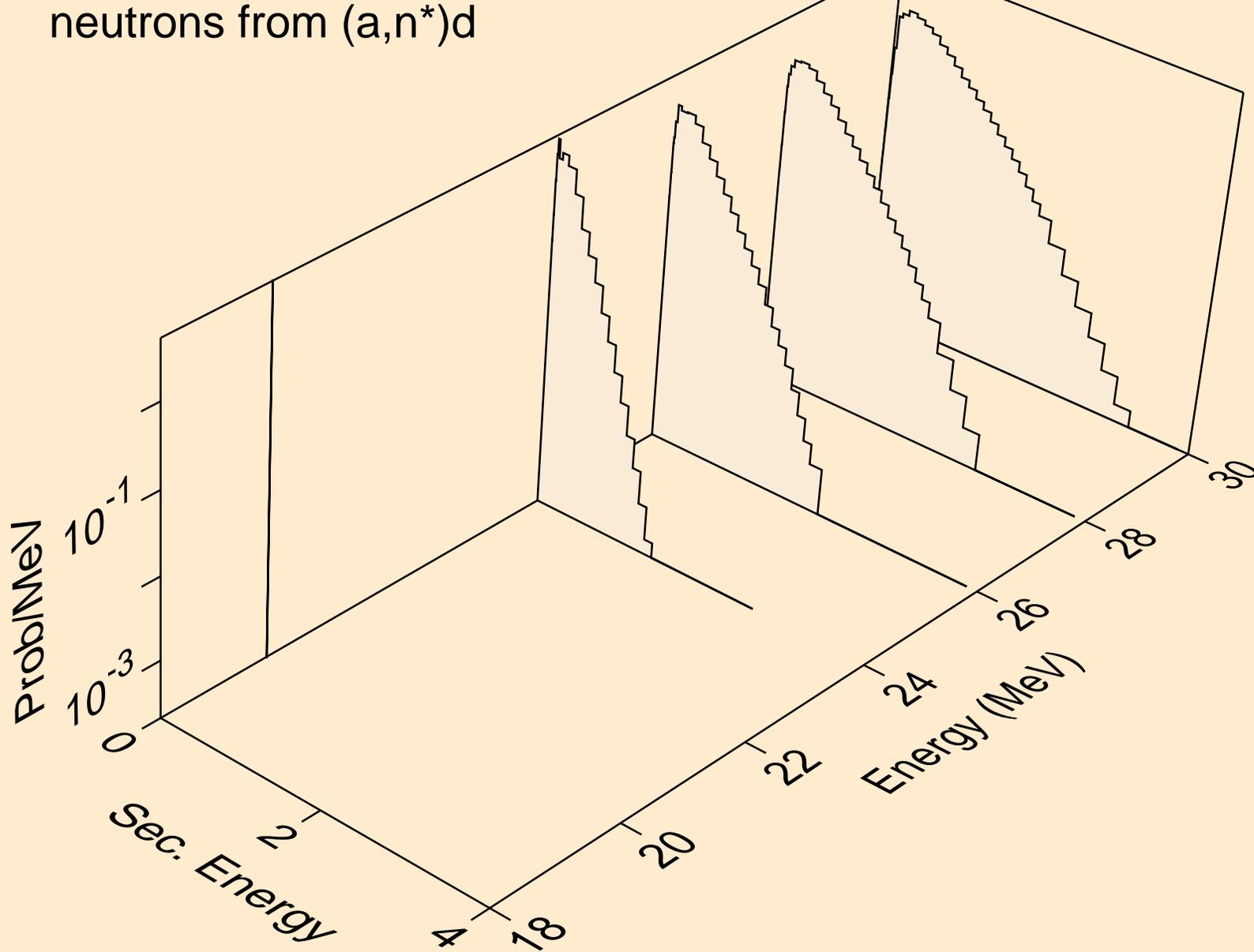
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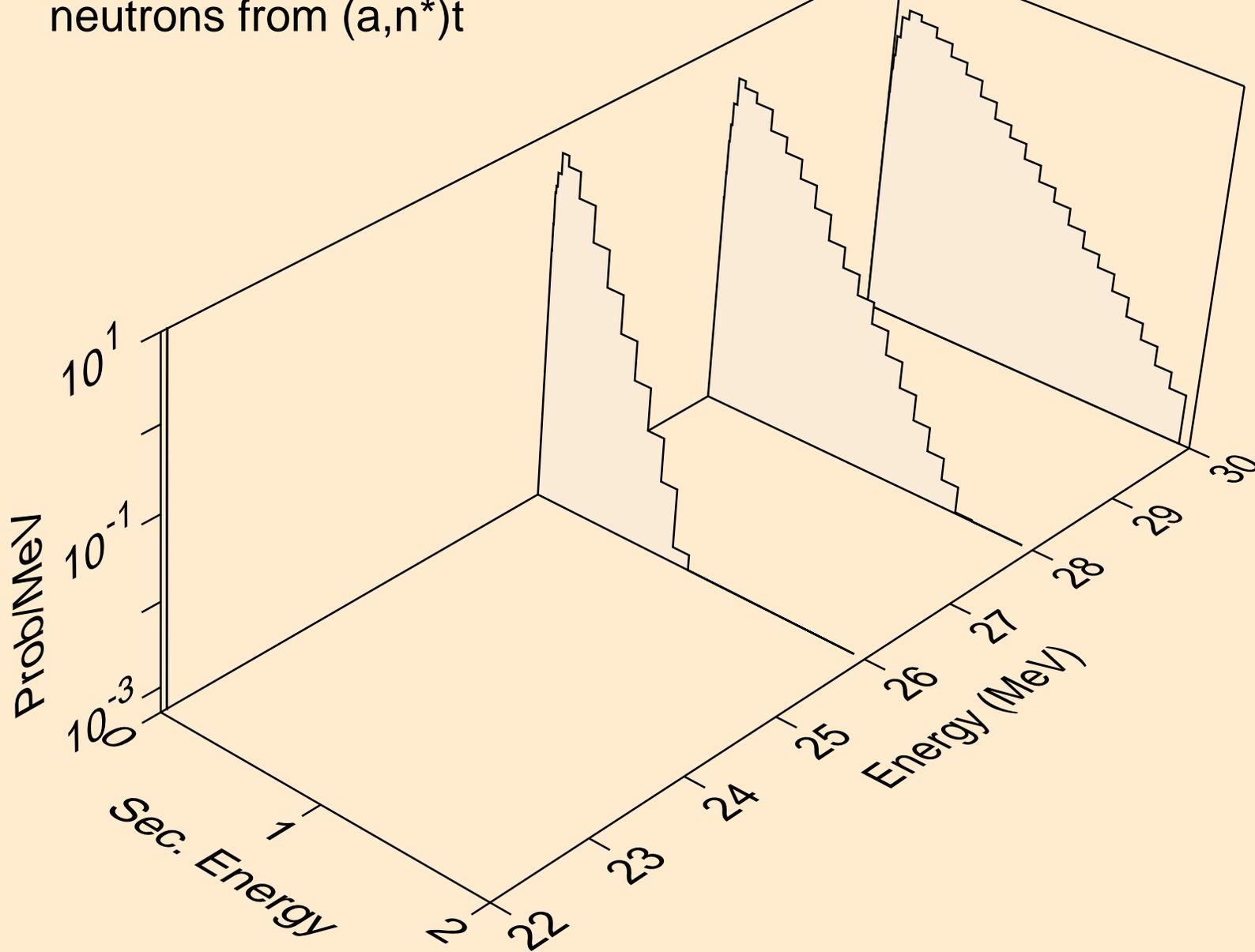
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neutrons from (a,n\*)p



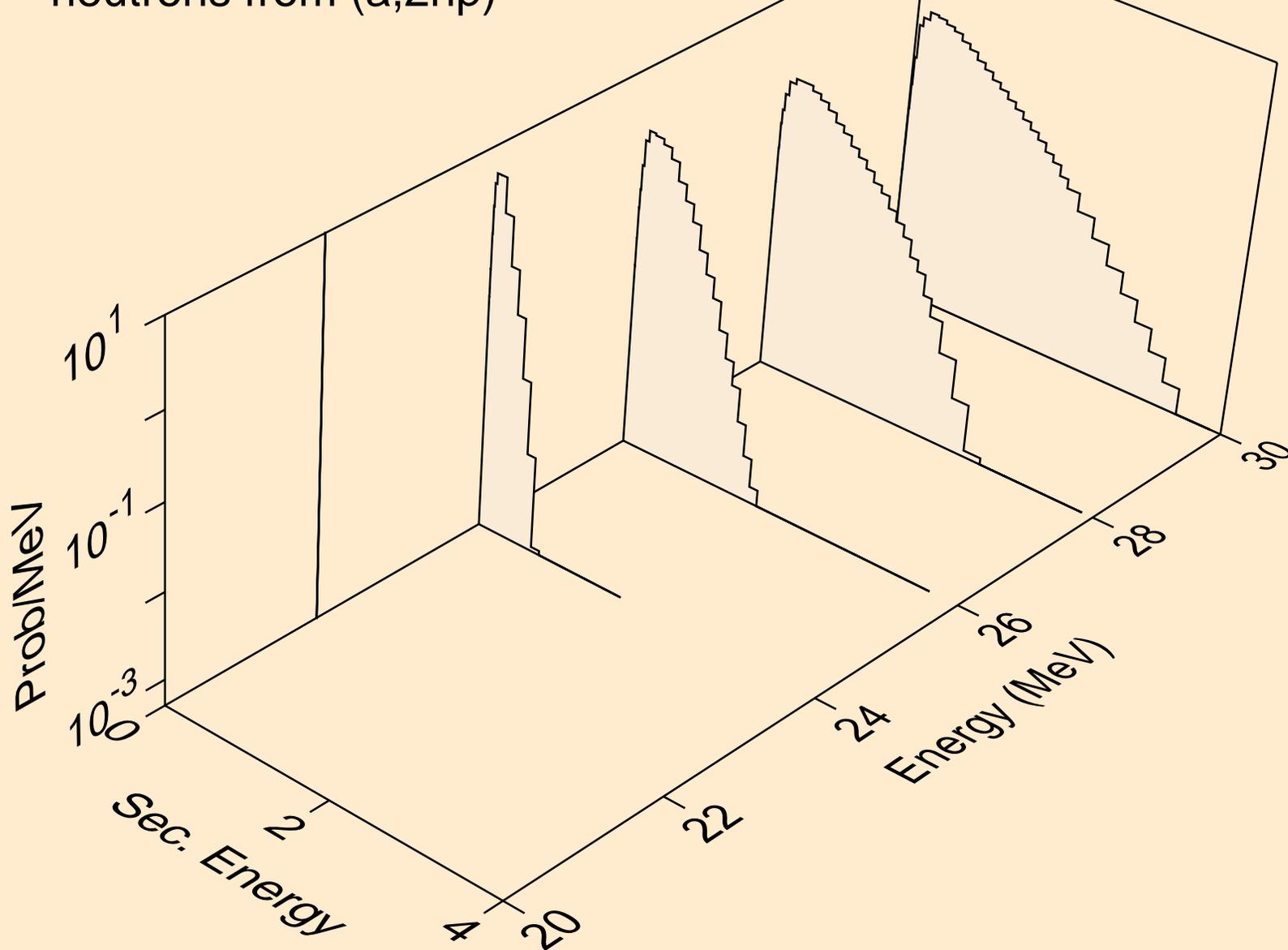
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neutrons from (a,n\*)d



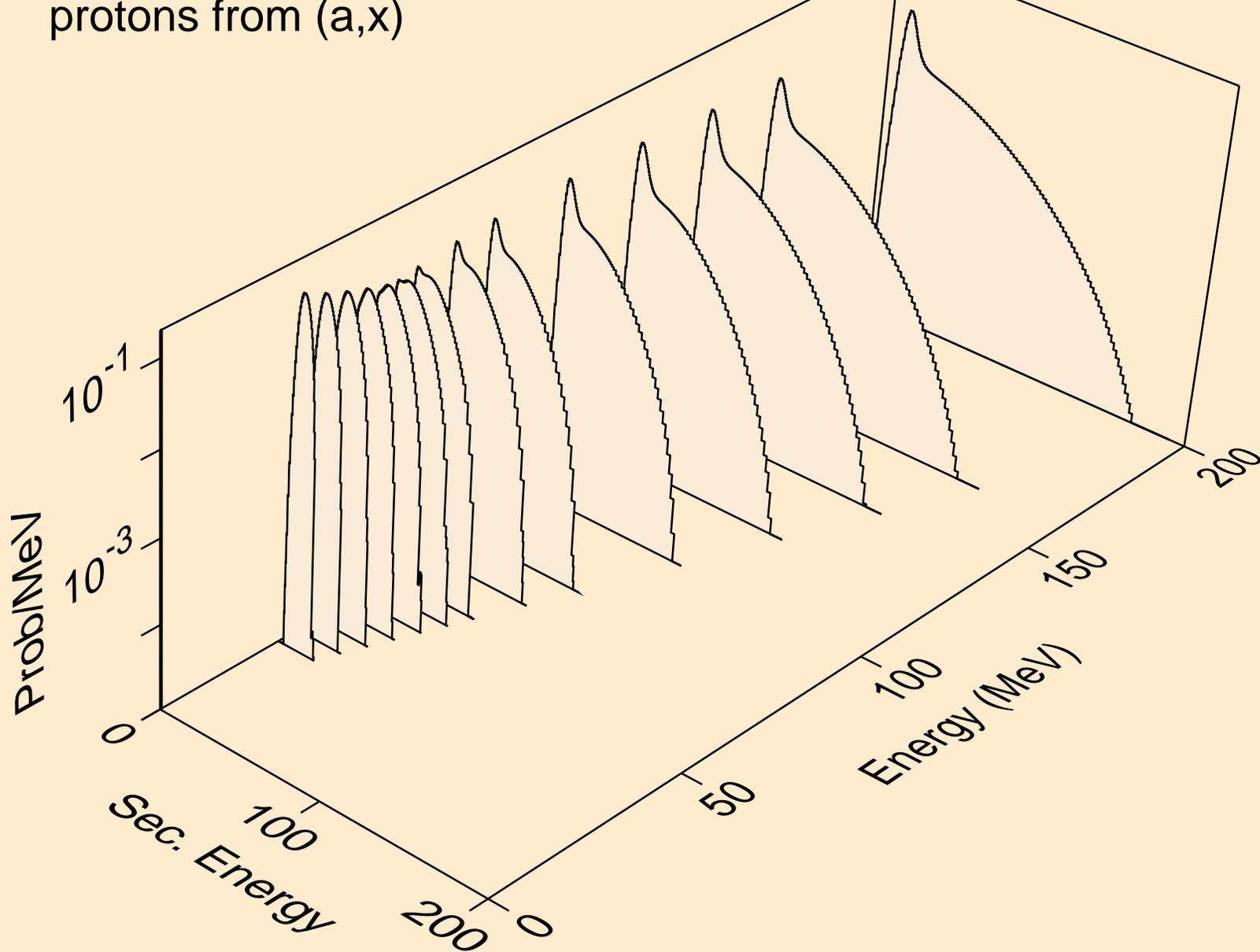
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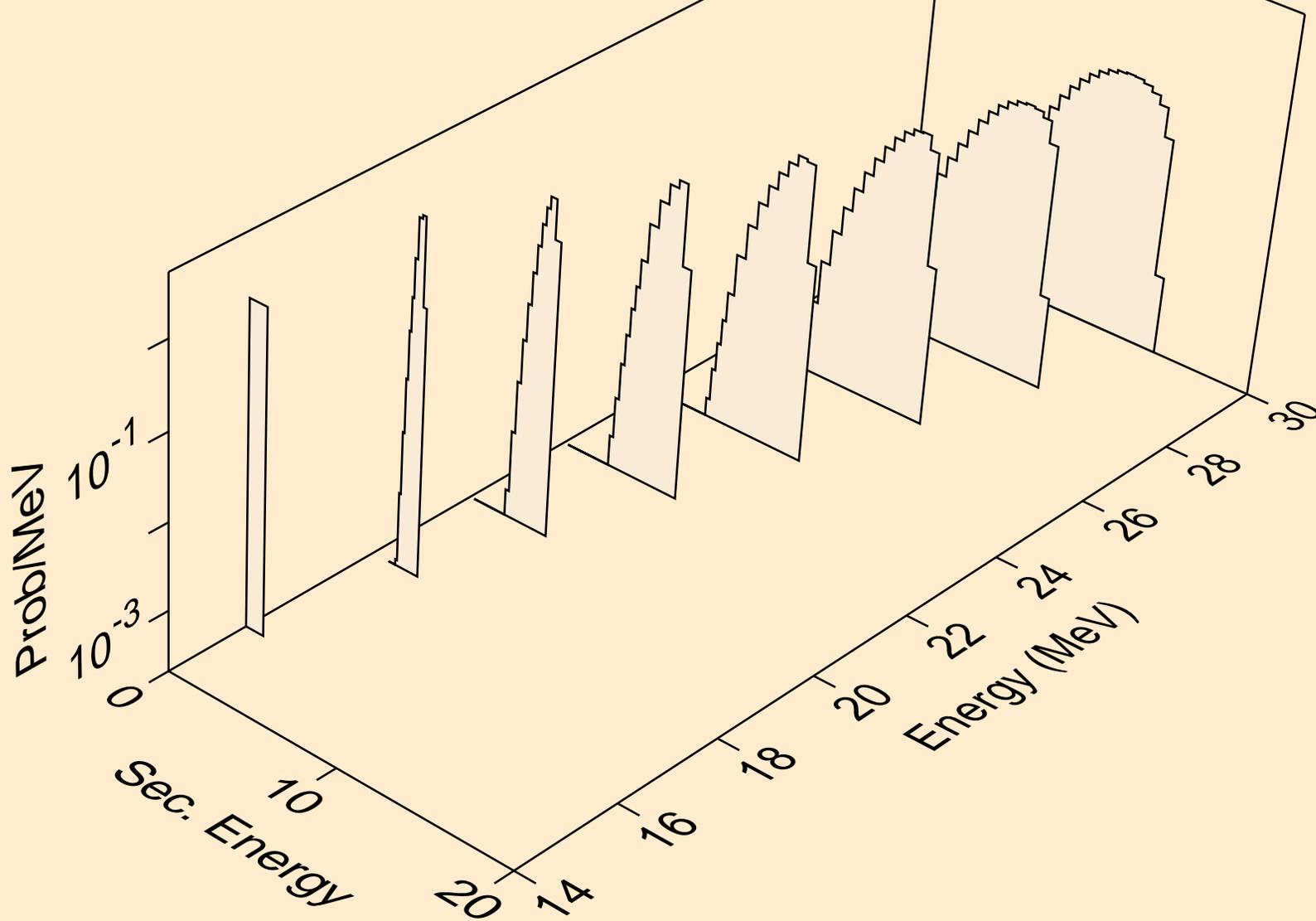
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neutrons from (a,2np)



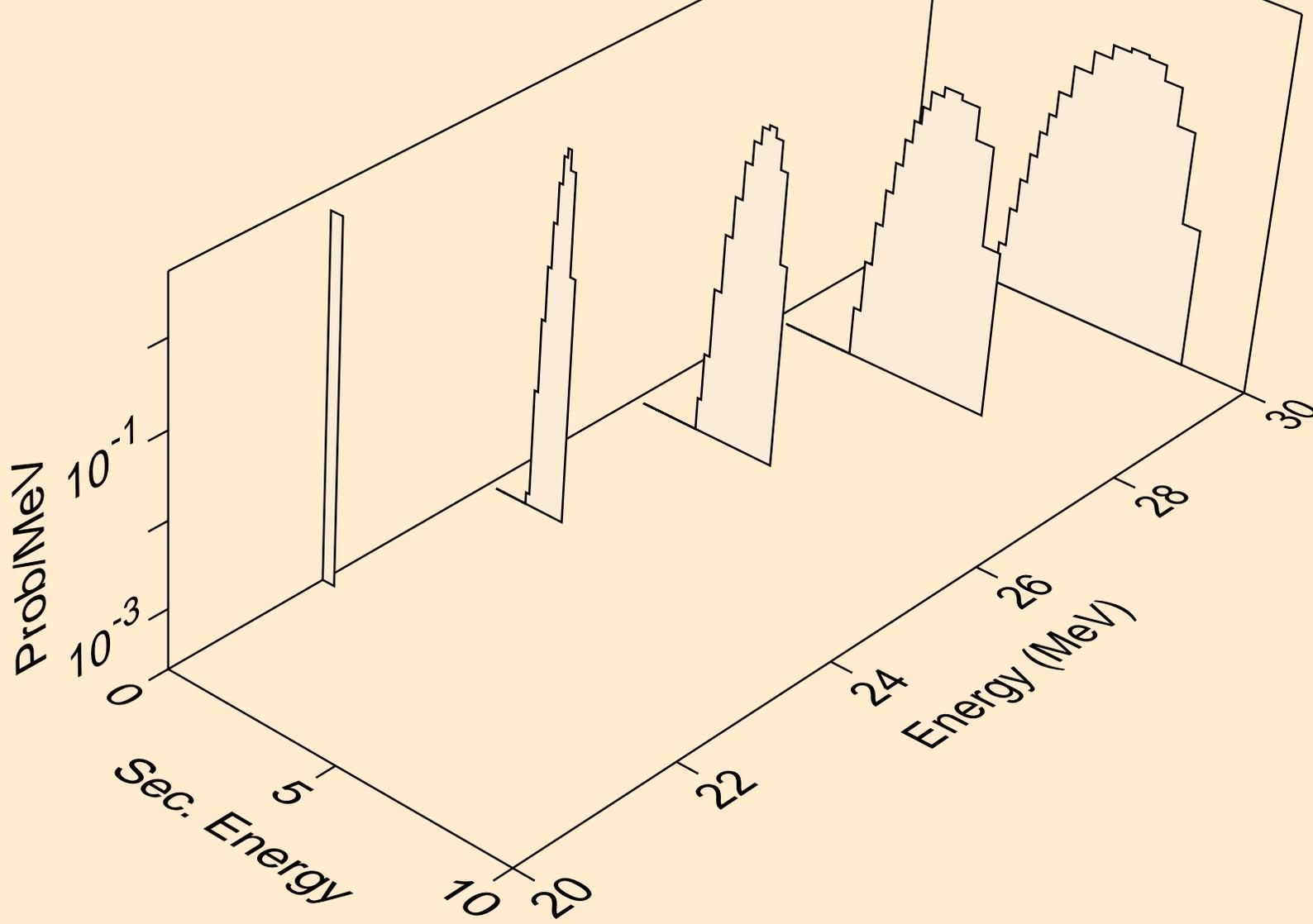
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protons from (a,x)



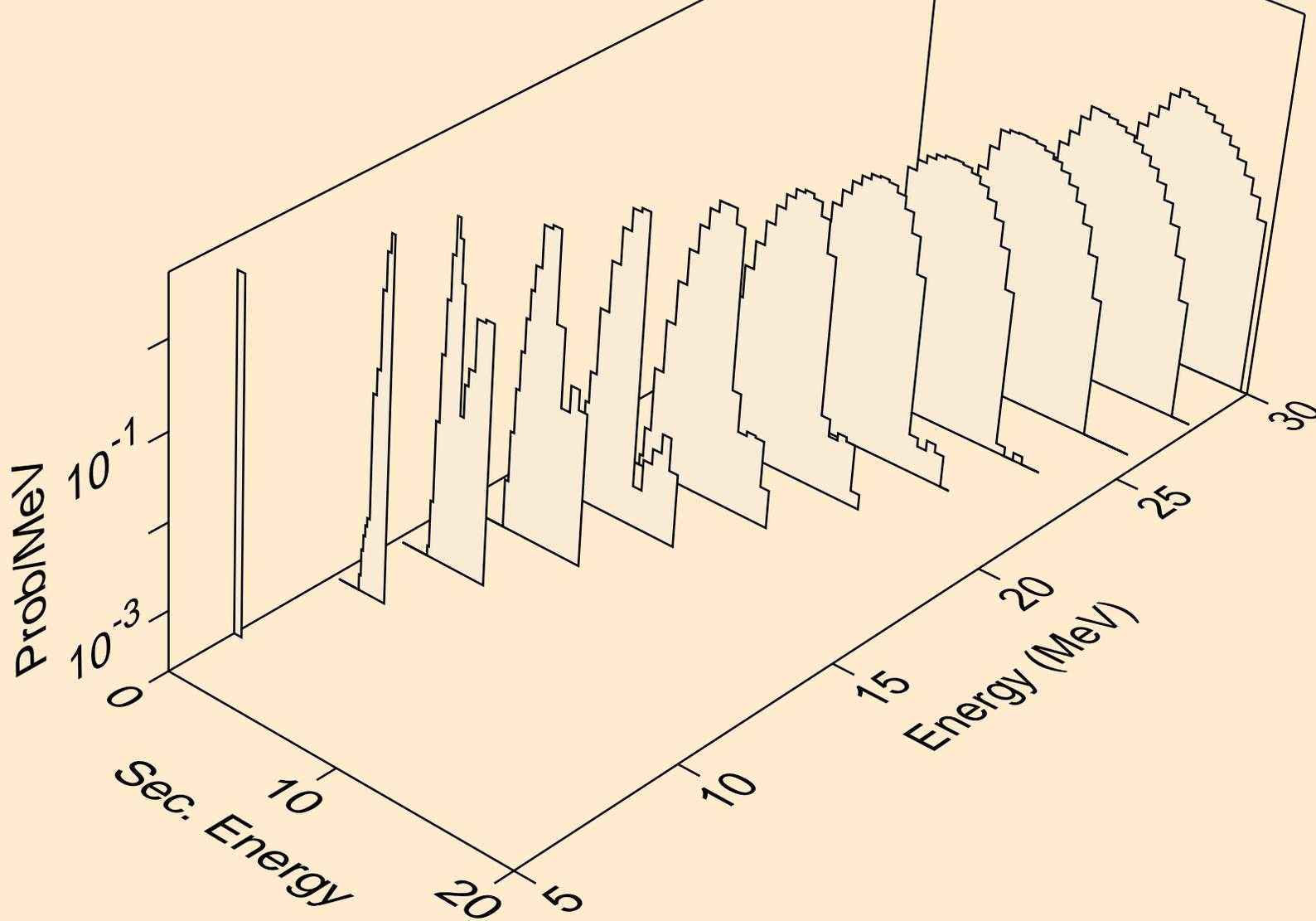
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protons from (a,n\*)p



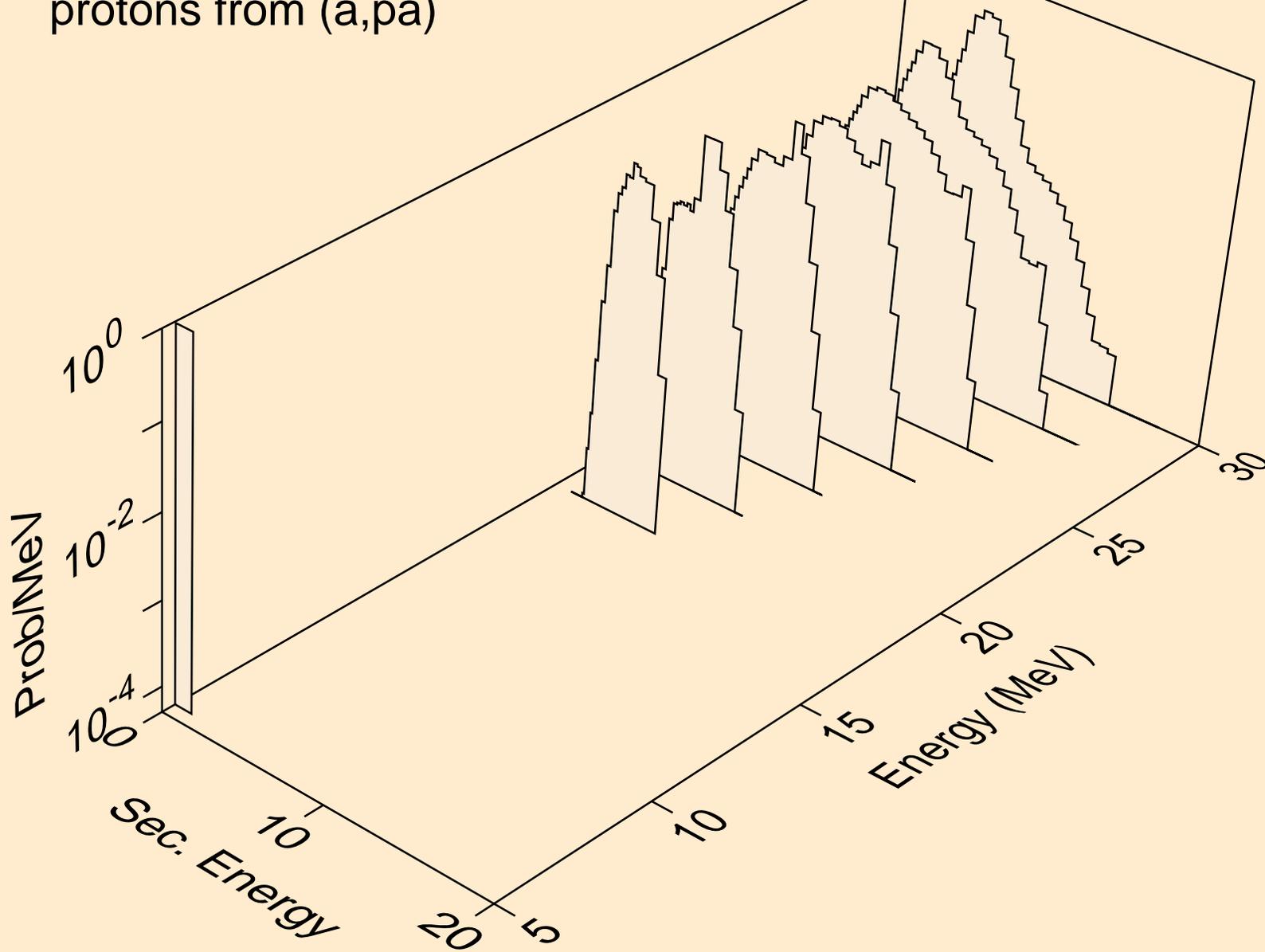
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protons from (a,2np)



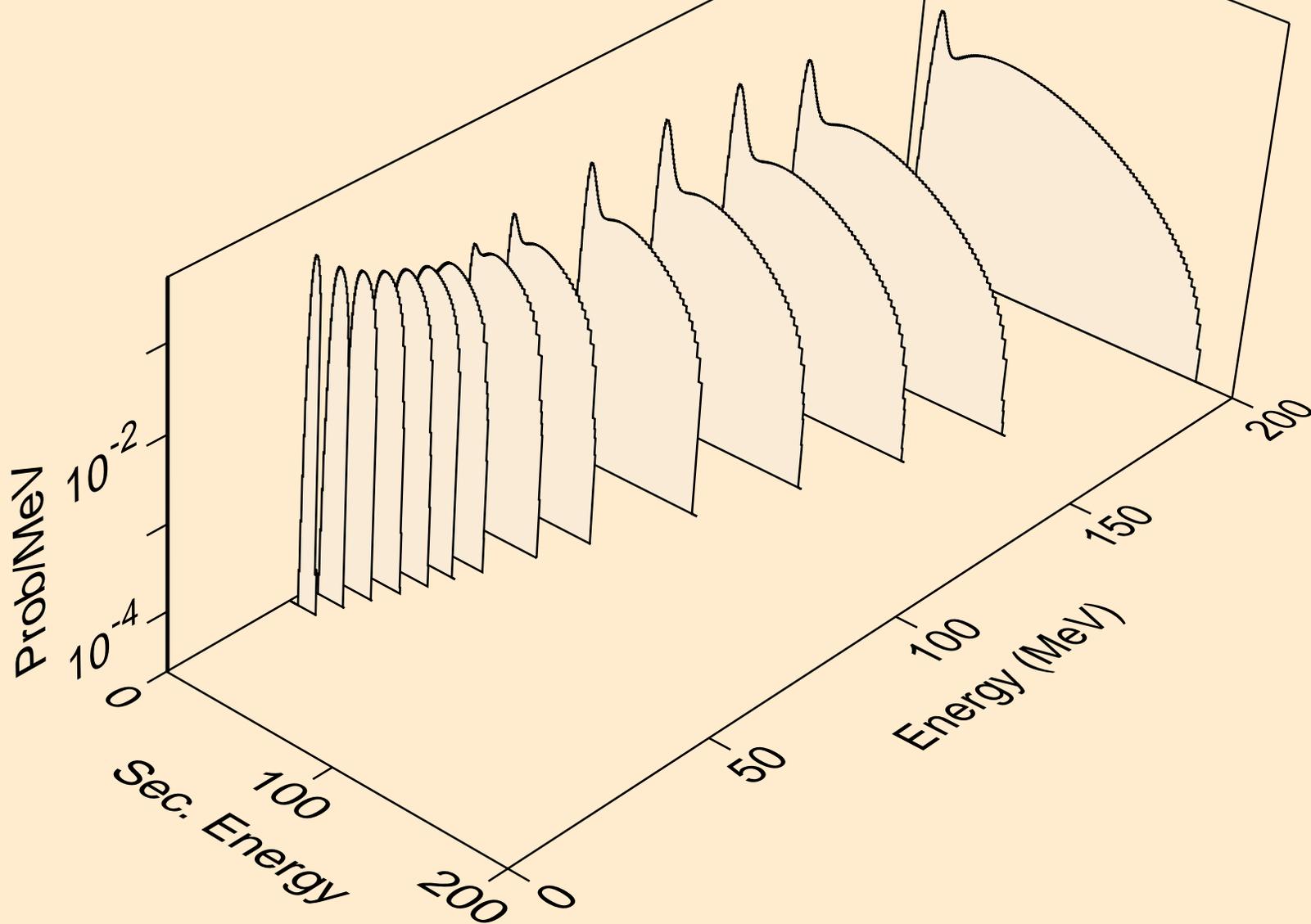
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protons from (a,p)



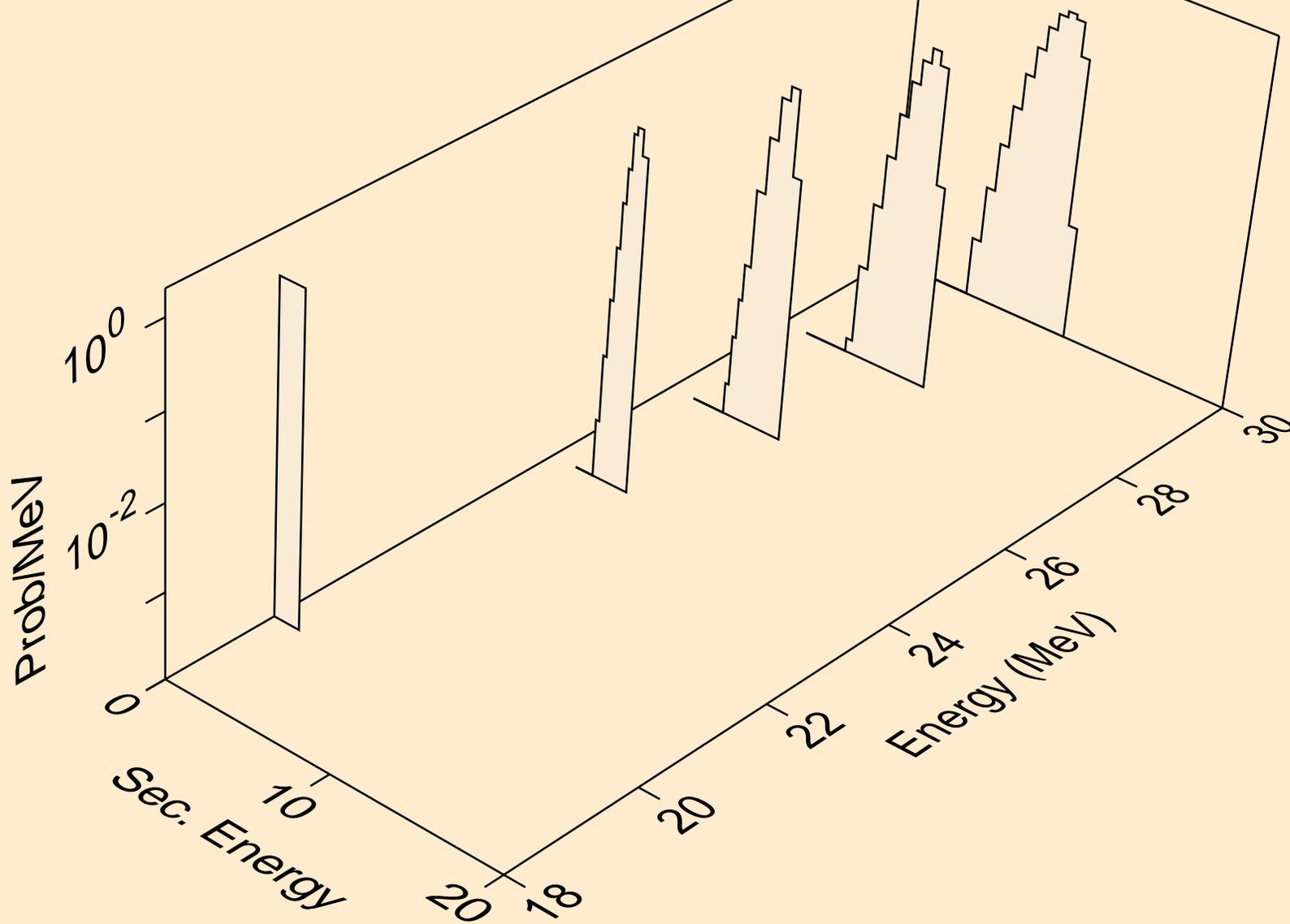
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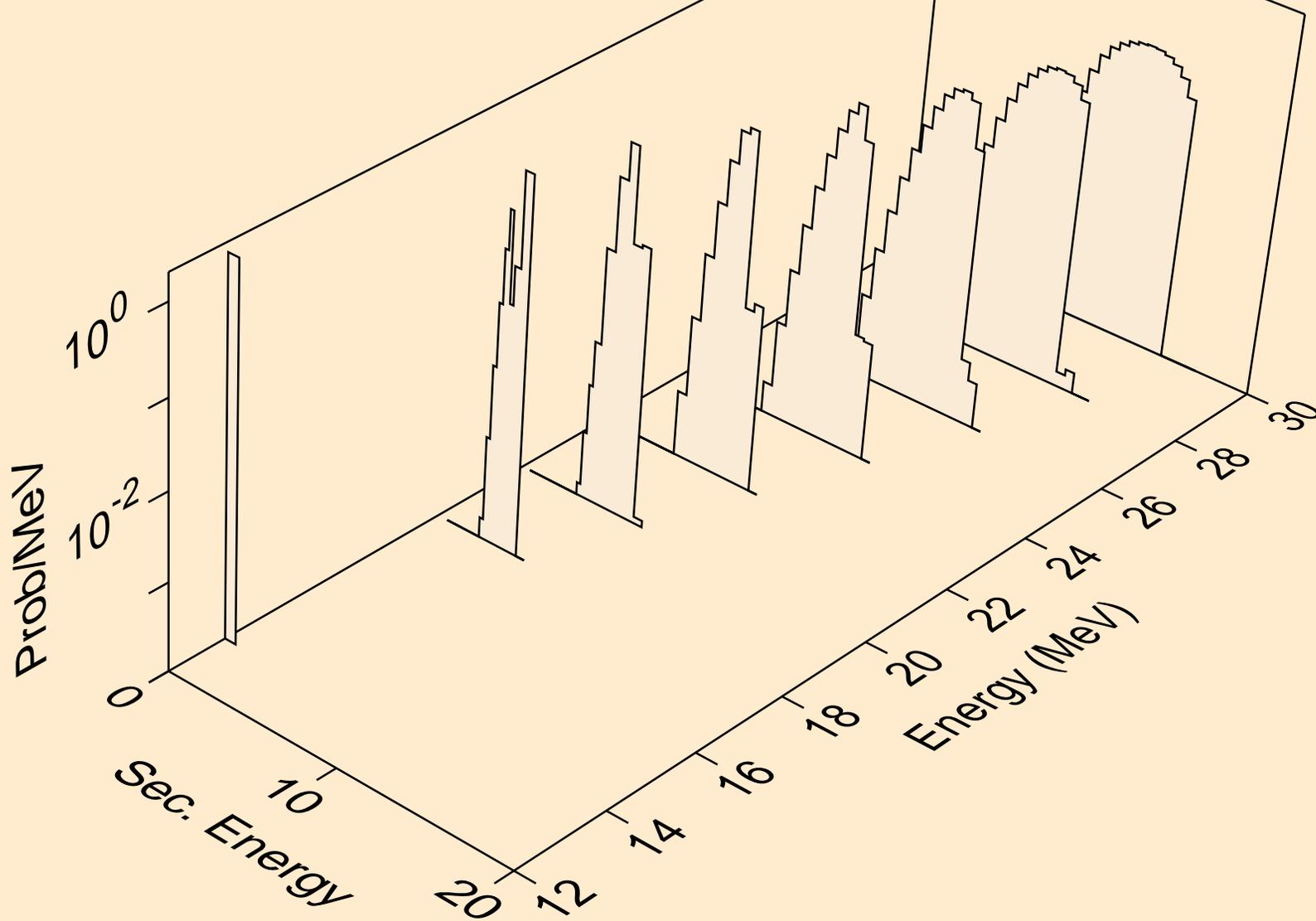
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deuterons from (a,x)



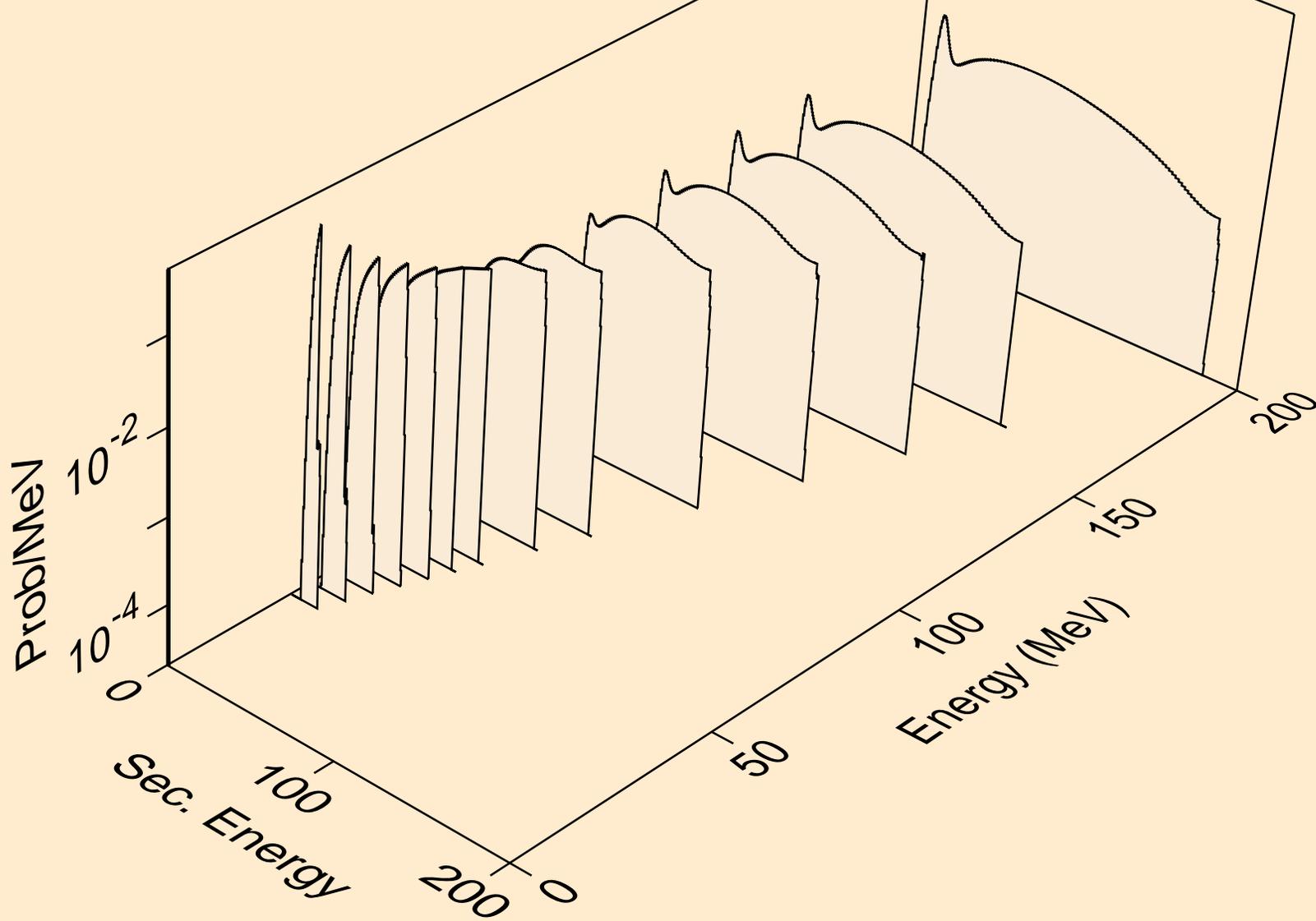
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deuterons from (a,n\*)d



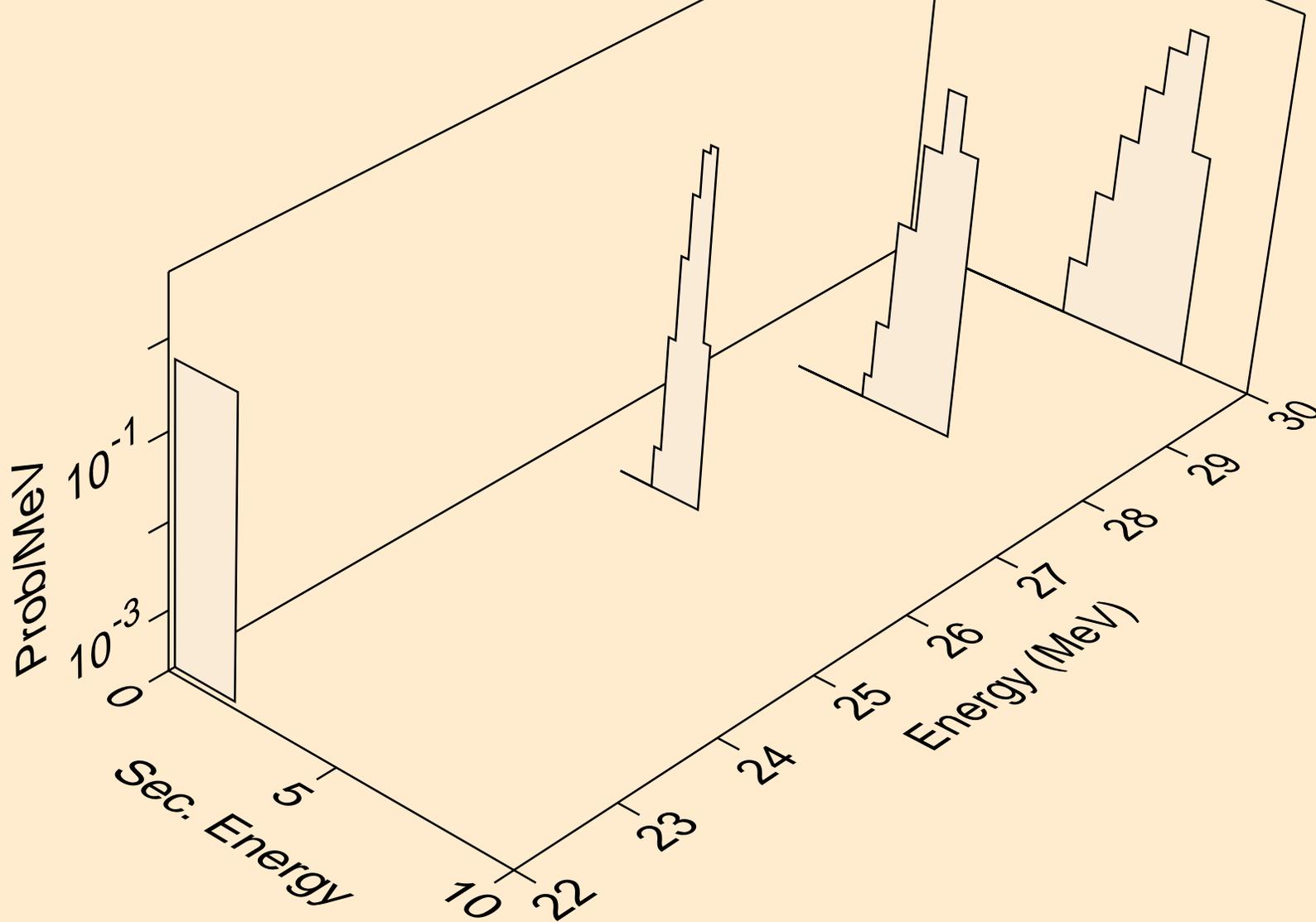
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deuterons from (a,d)



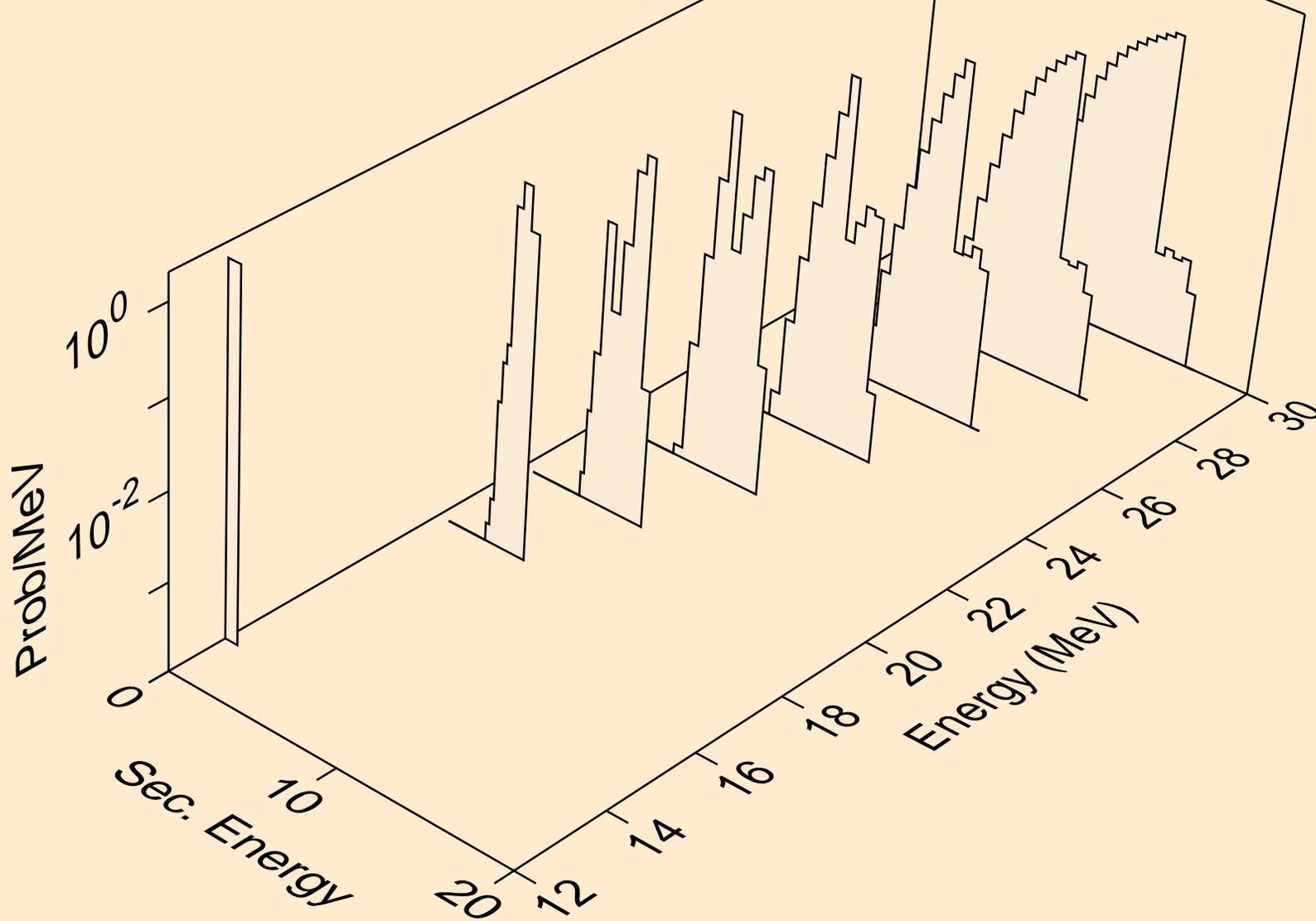
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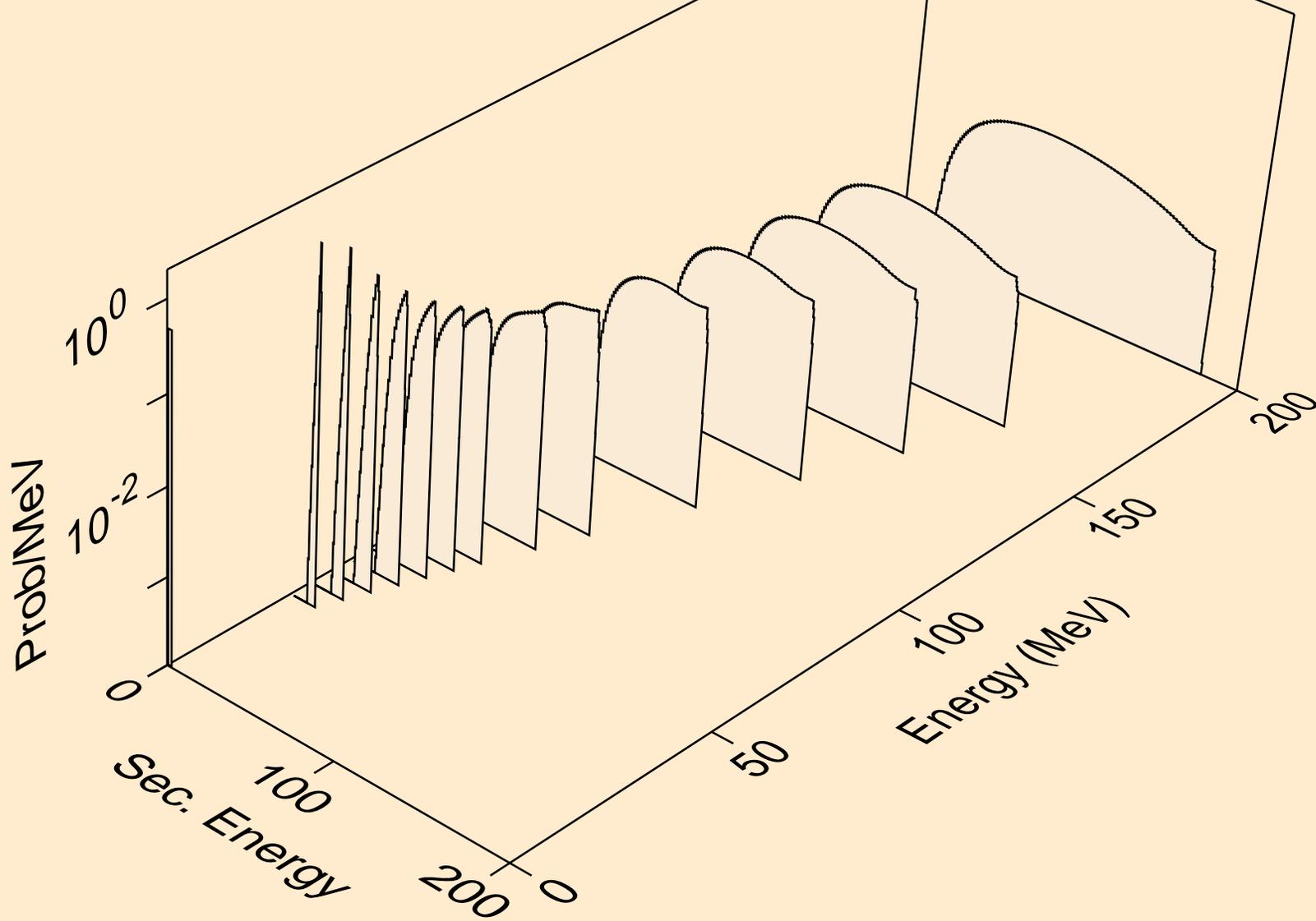
IR191 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
tritons from (a,n\*)t



IR191 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
tritons from (a,t)



IR191 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
he3s from (a,x)



IR191 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
he3s from (a,he3)

