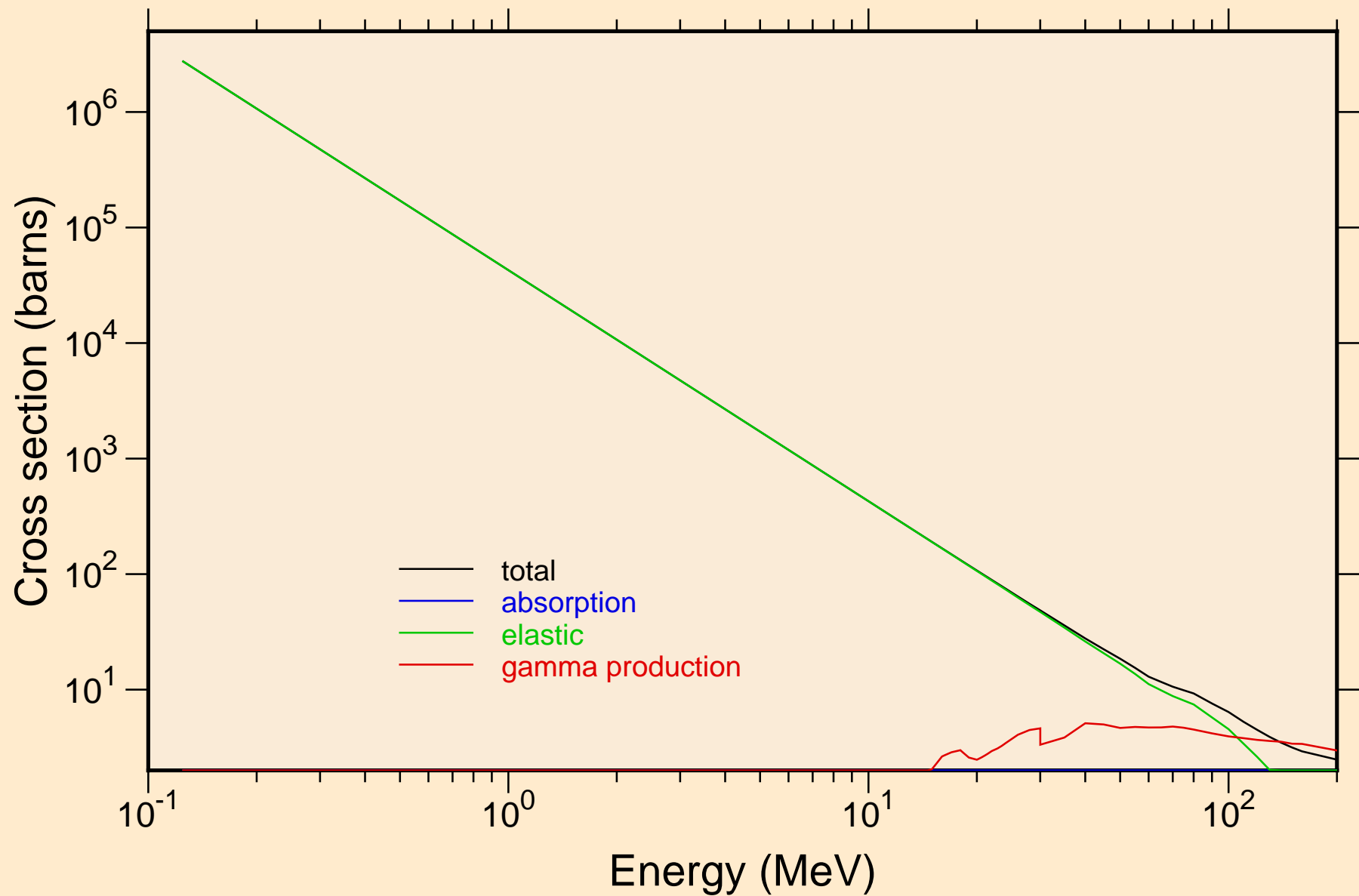
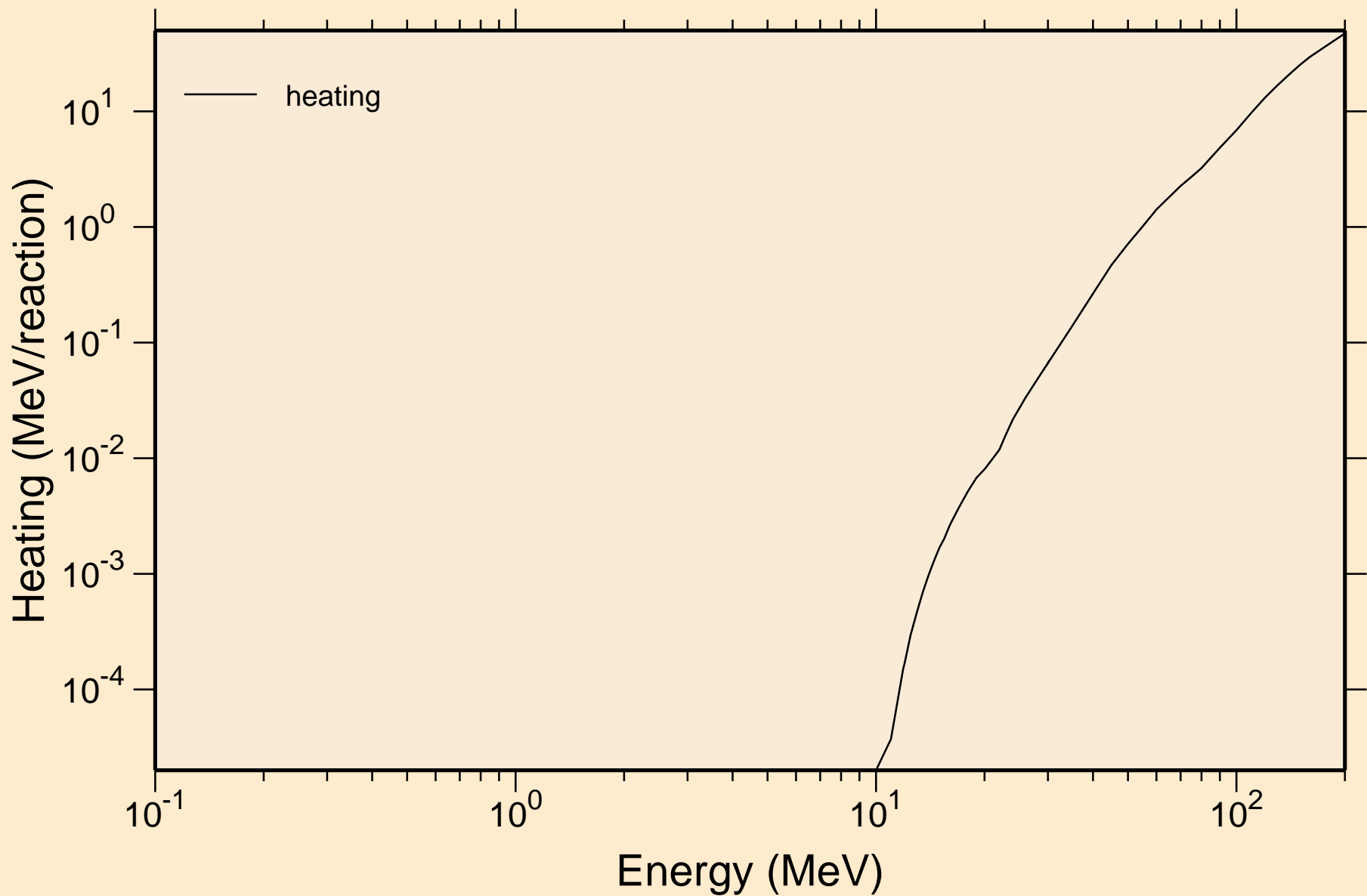


ZR091 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
Principal cross sections

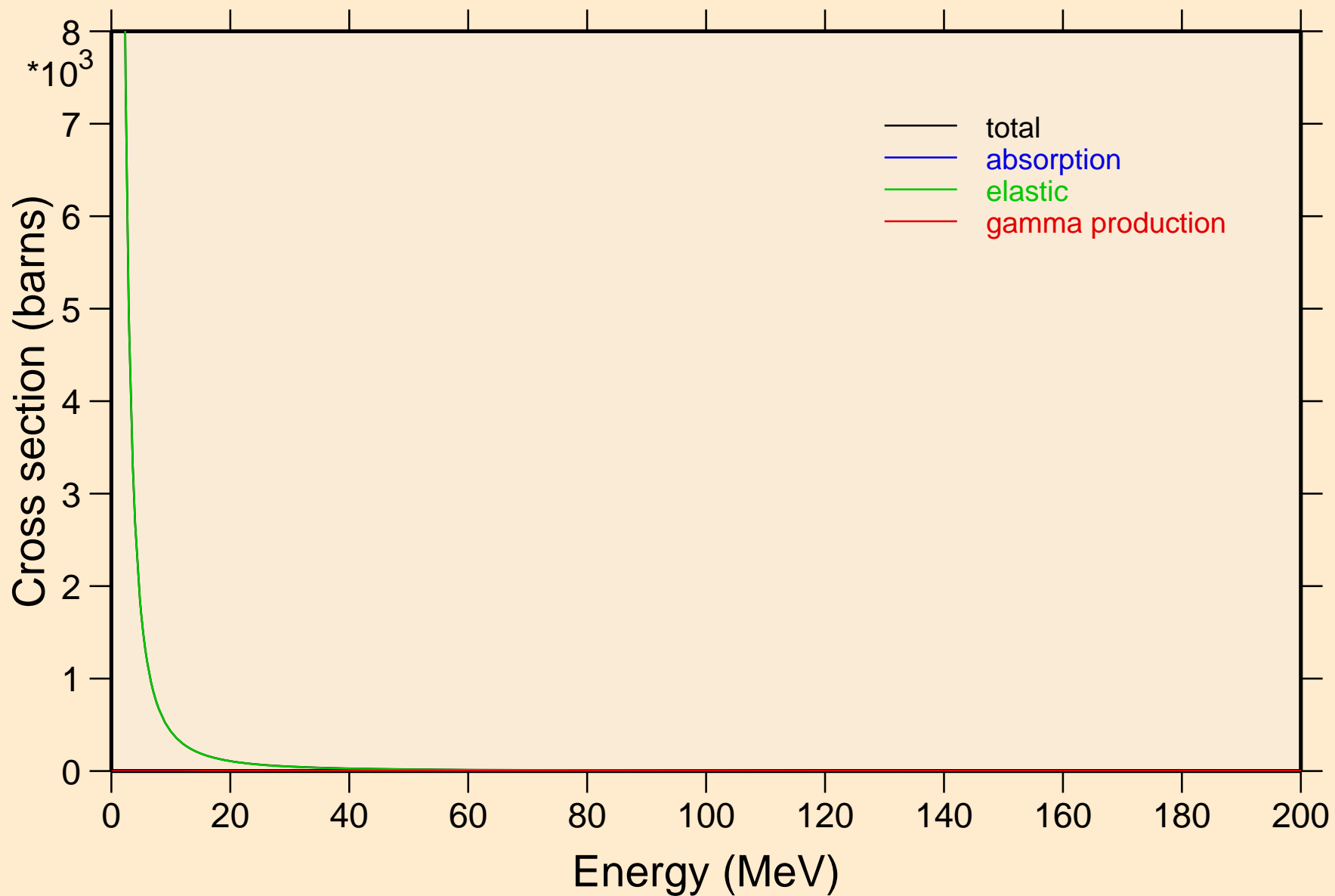


ZR091 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
Heating



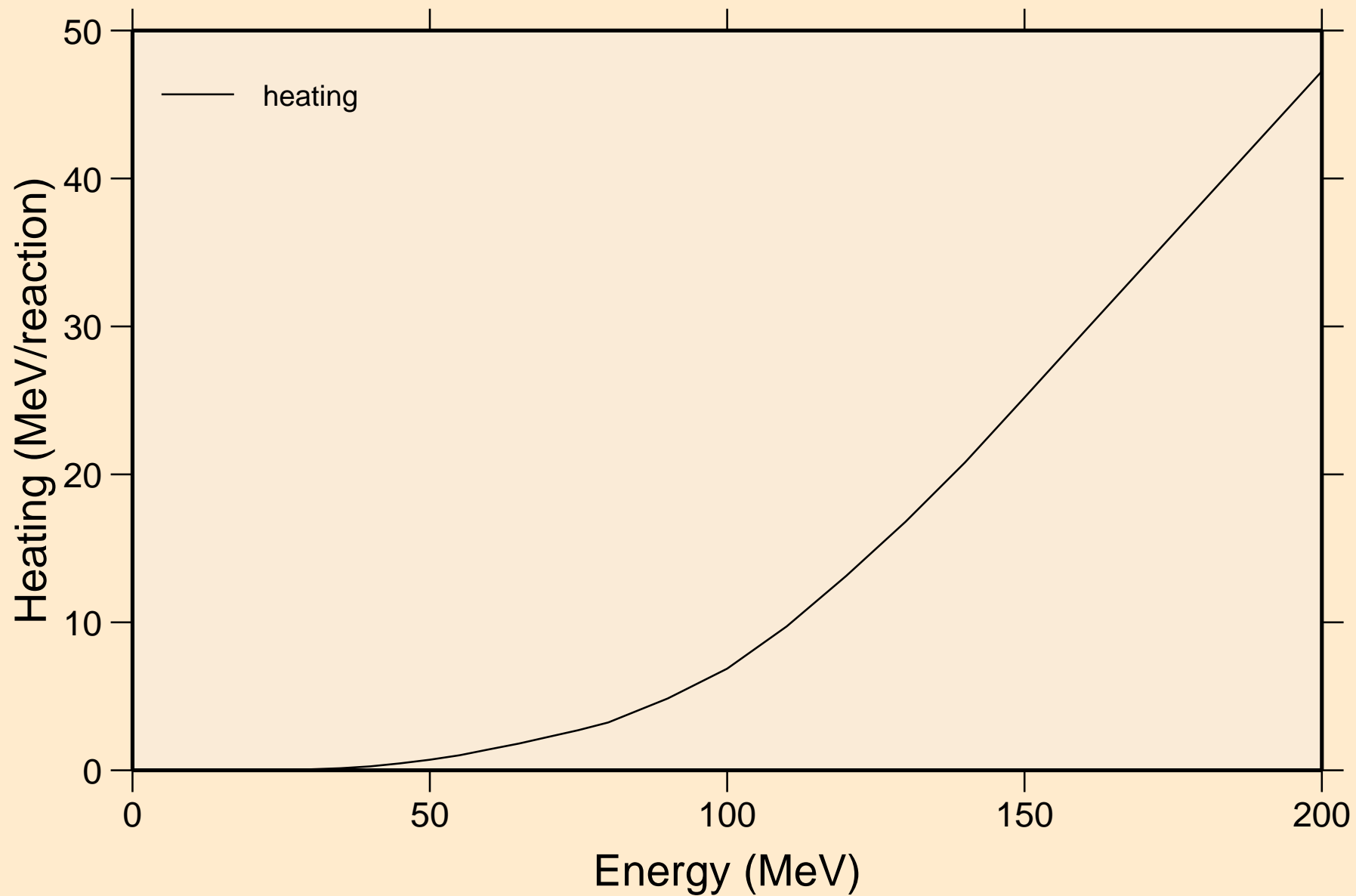
# ZR091 ALPHA ACER TENDL-2023 LIBRARY; T=0.K

## Principal cross sections

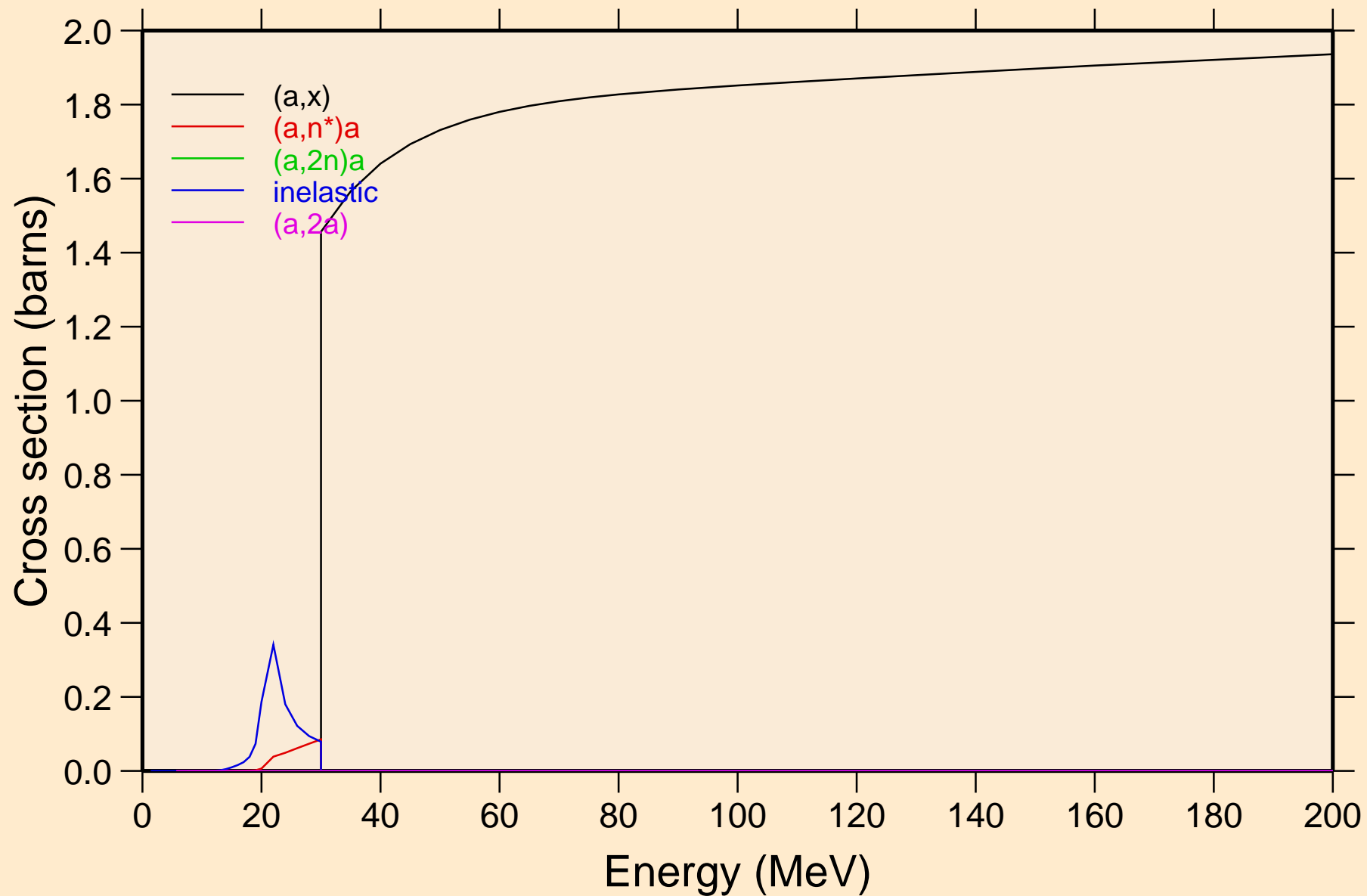


ZR091 ALPHA ACER TENDL-2023 LIBRARY; T=0.K

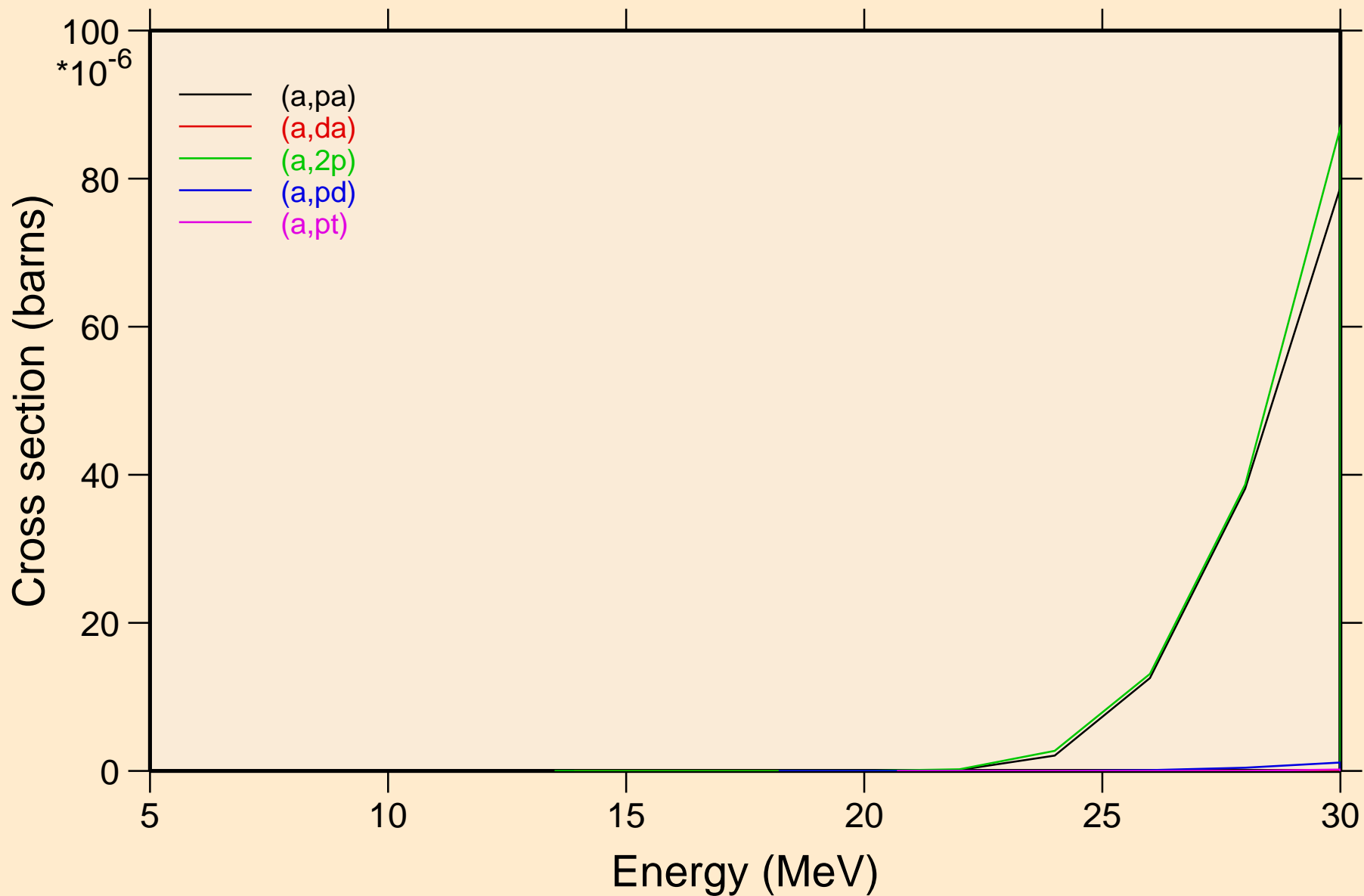
Heating



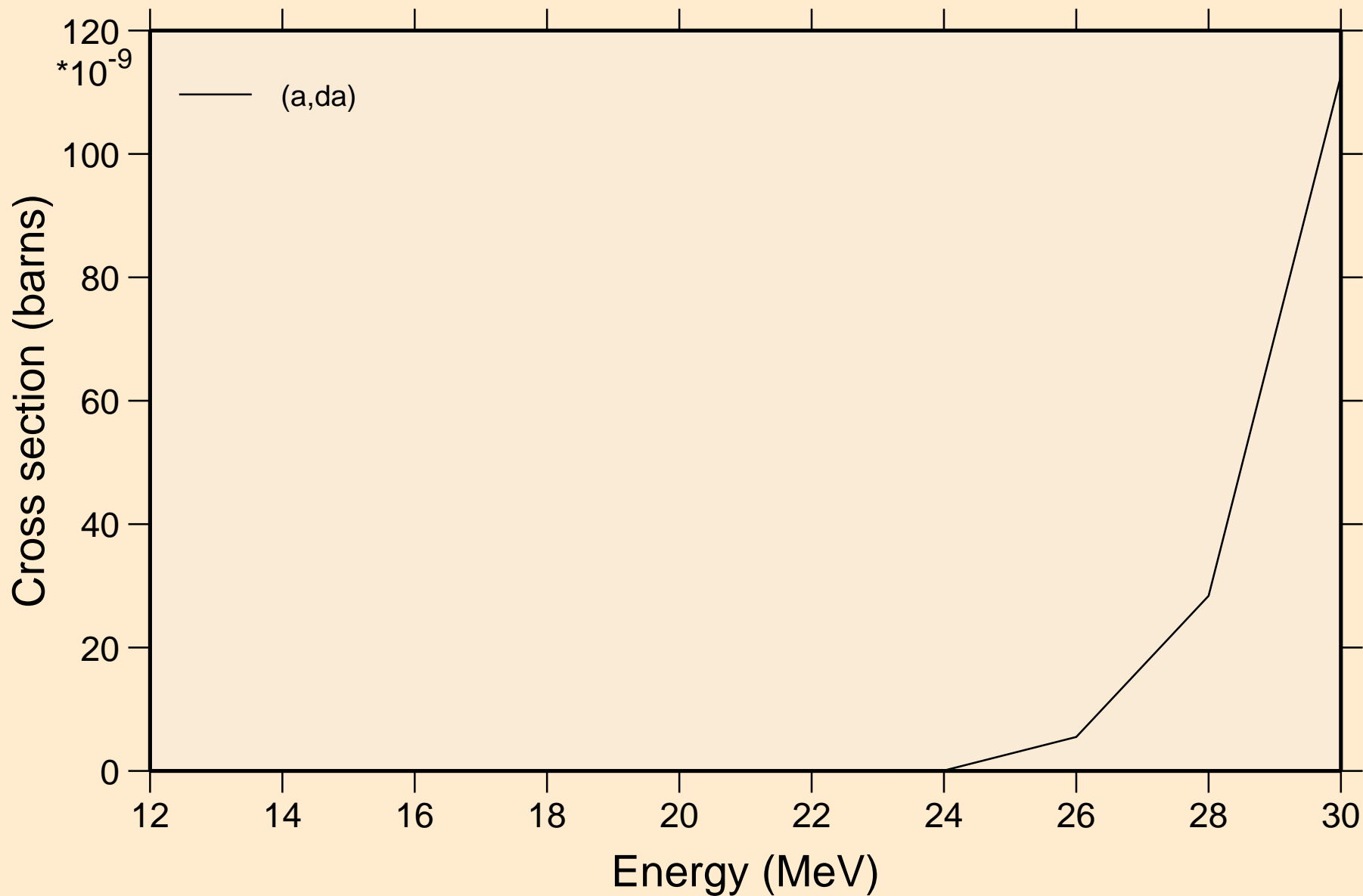
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Threshold reactions



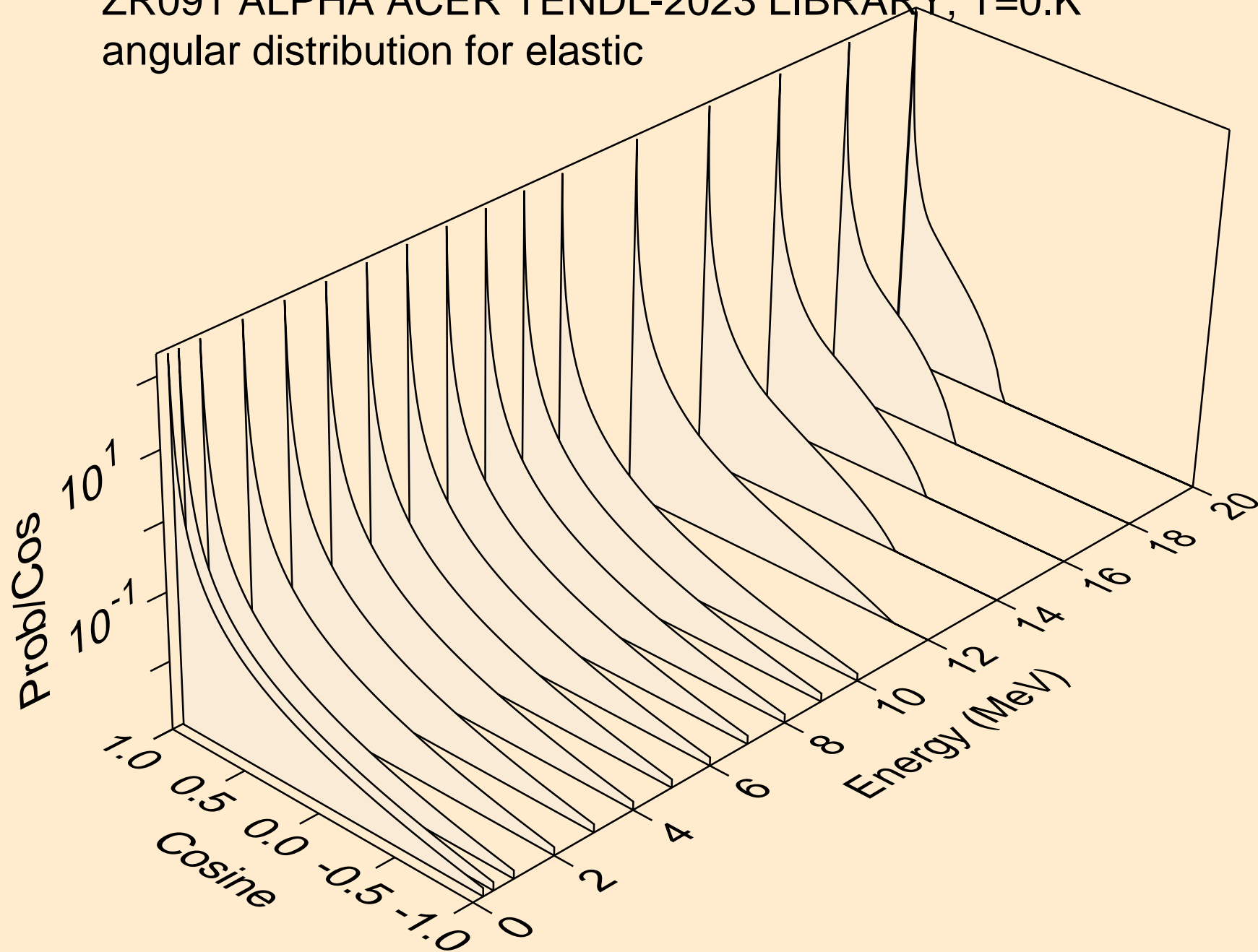
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Threshold reactions



ZR091 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
Threshold reactions

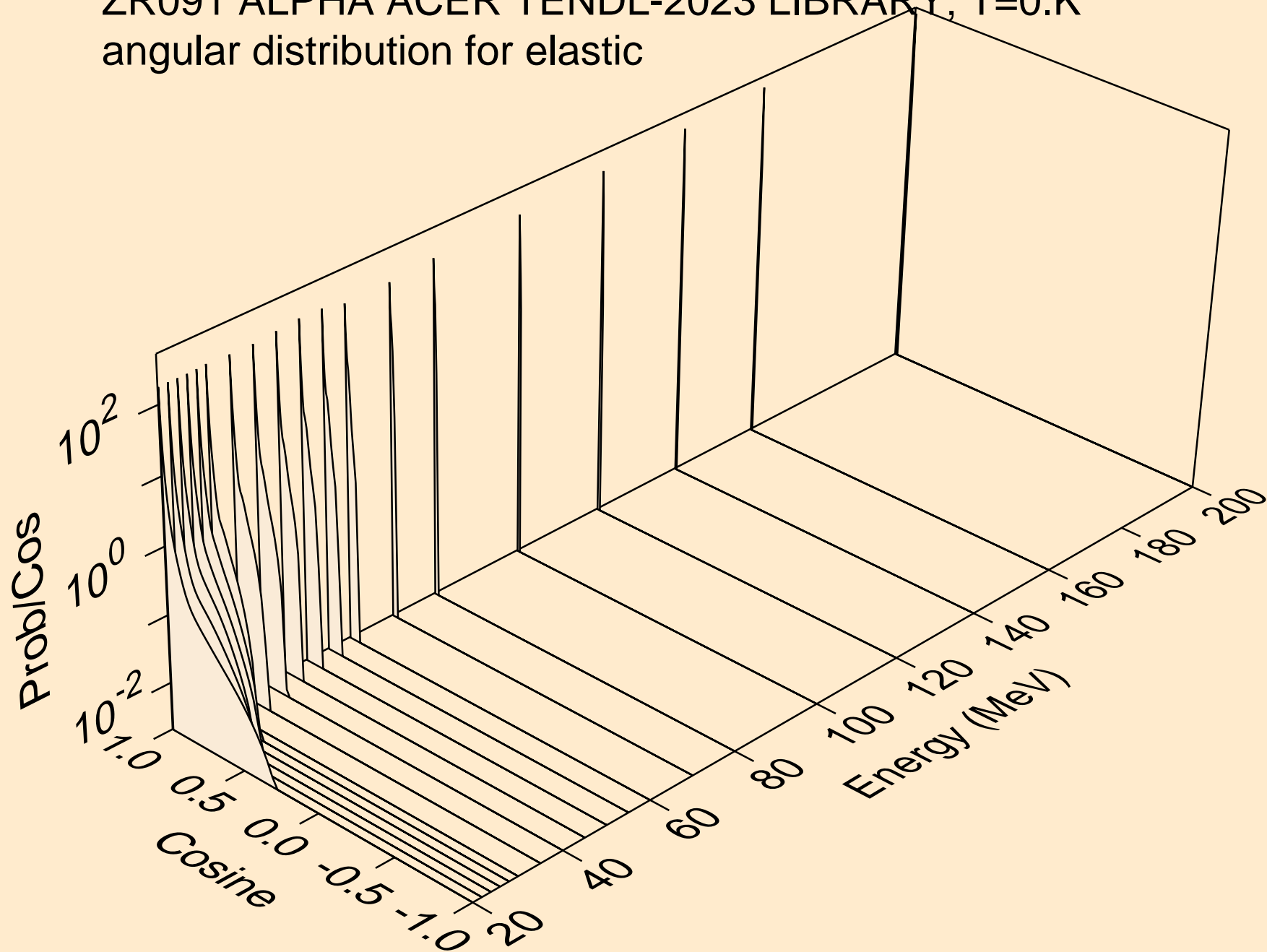


ZR091 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for elastic

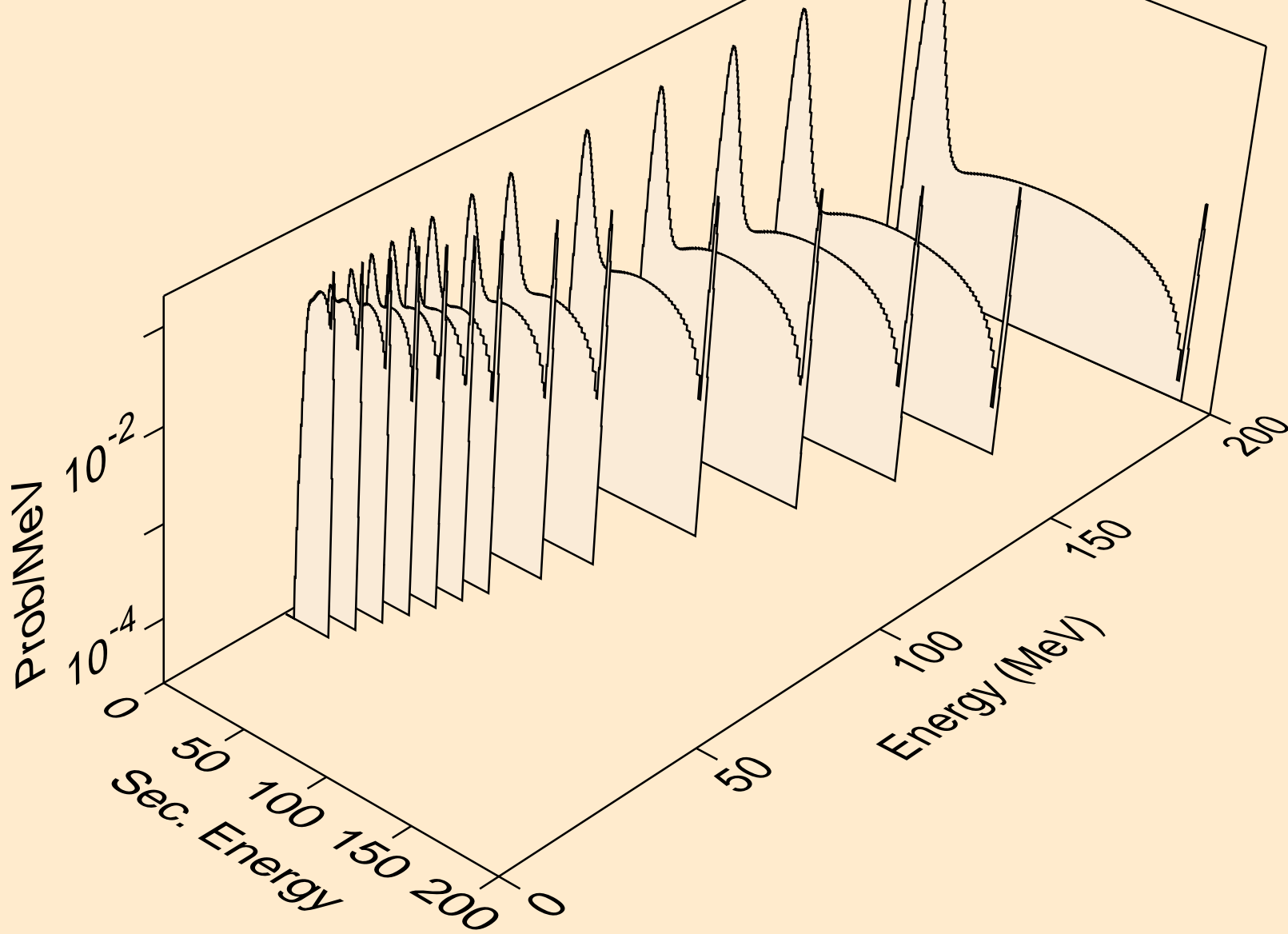




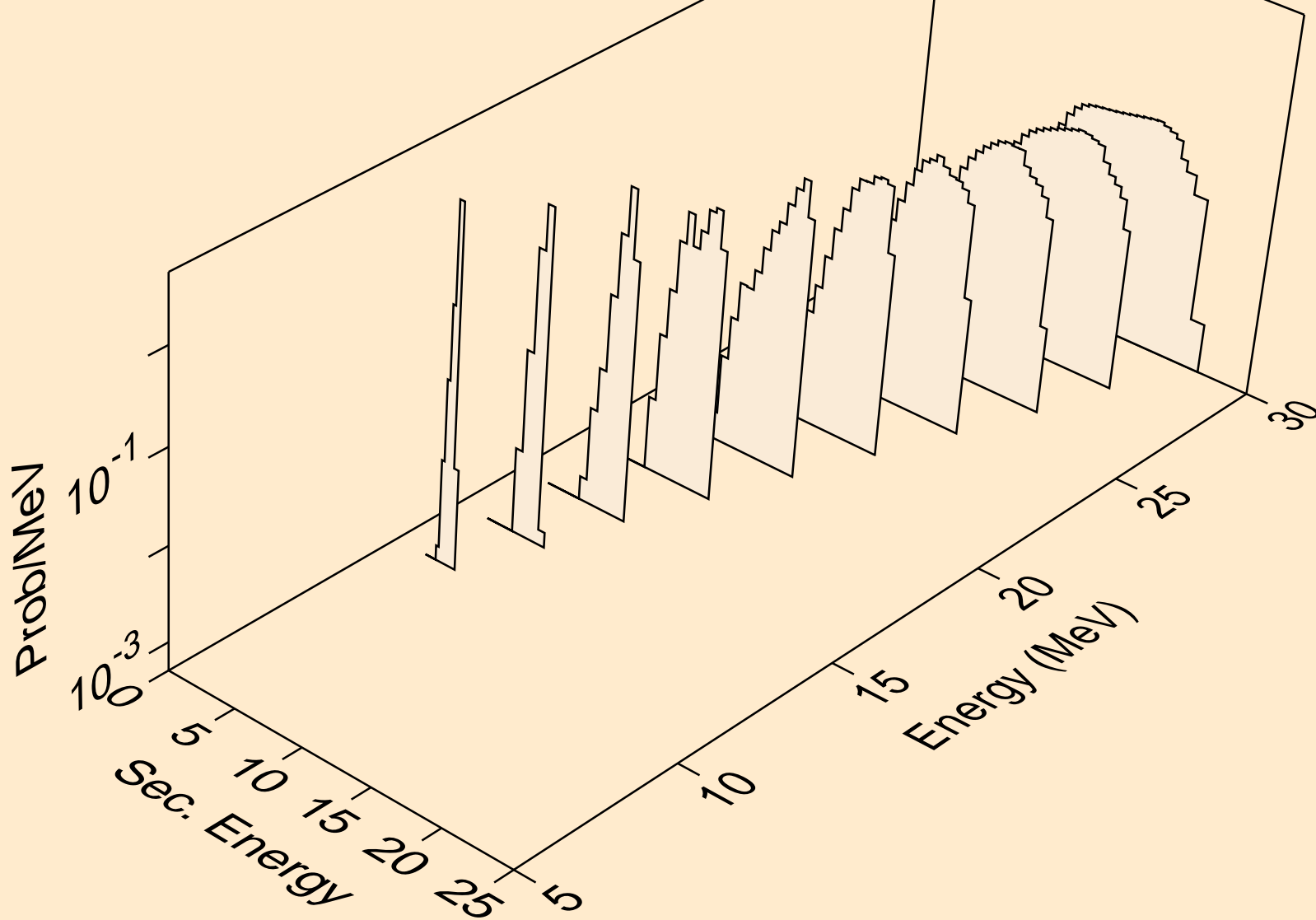
ZR091 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for elastic



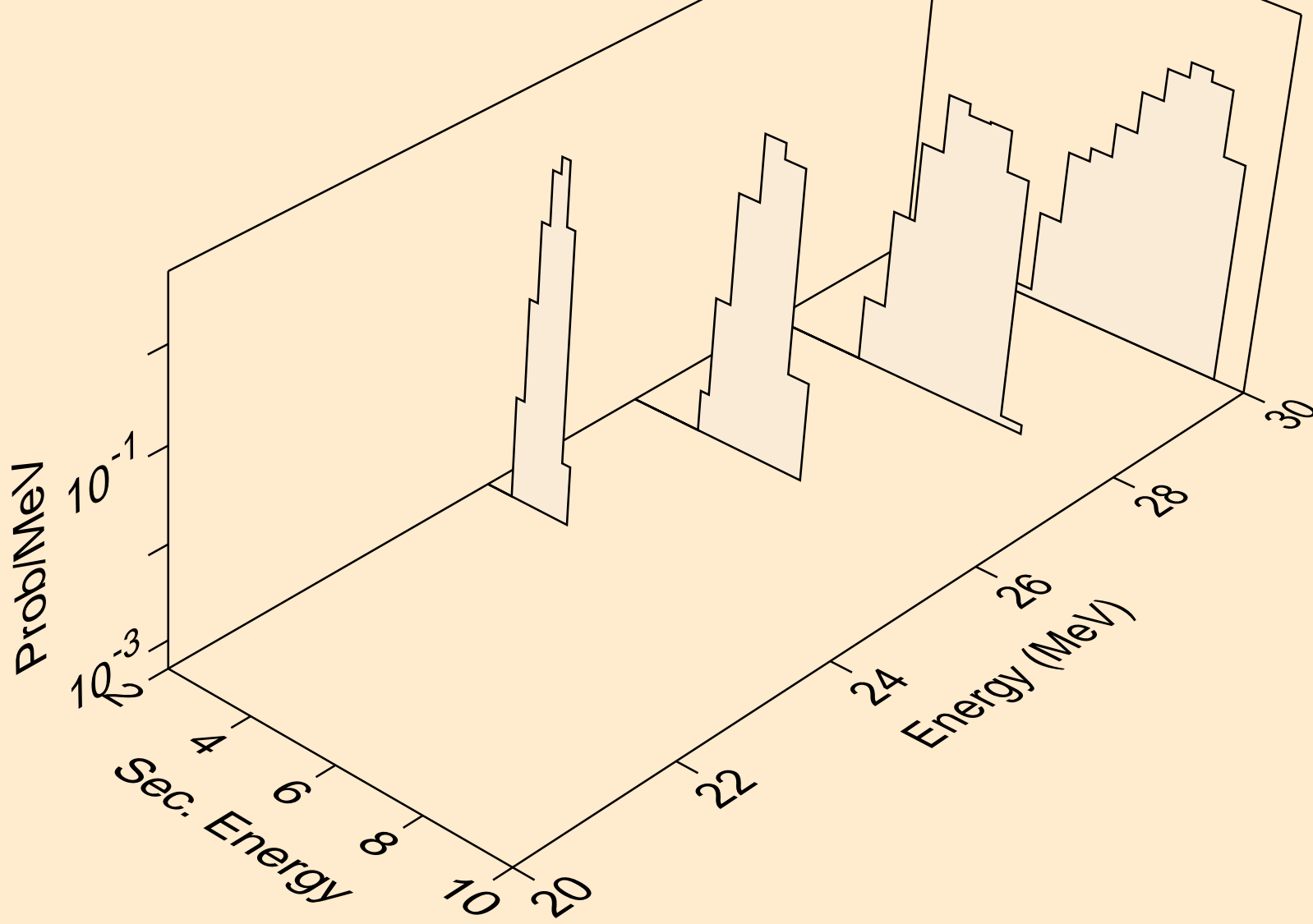
ZR091 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
Alpha emission for (a,x)



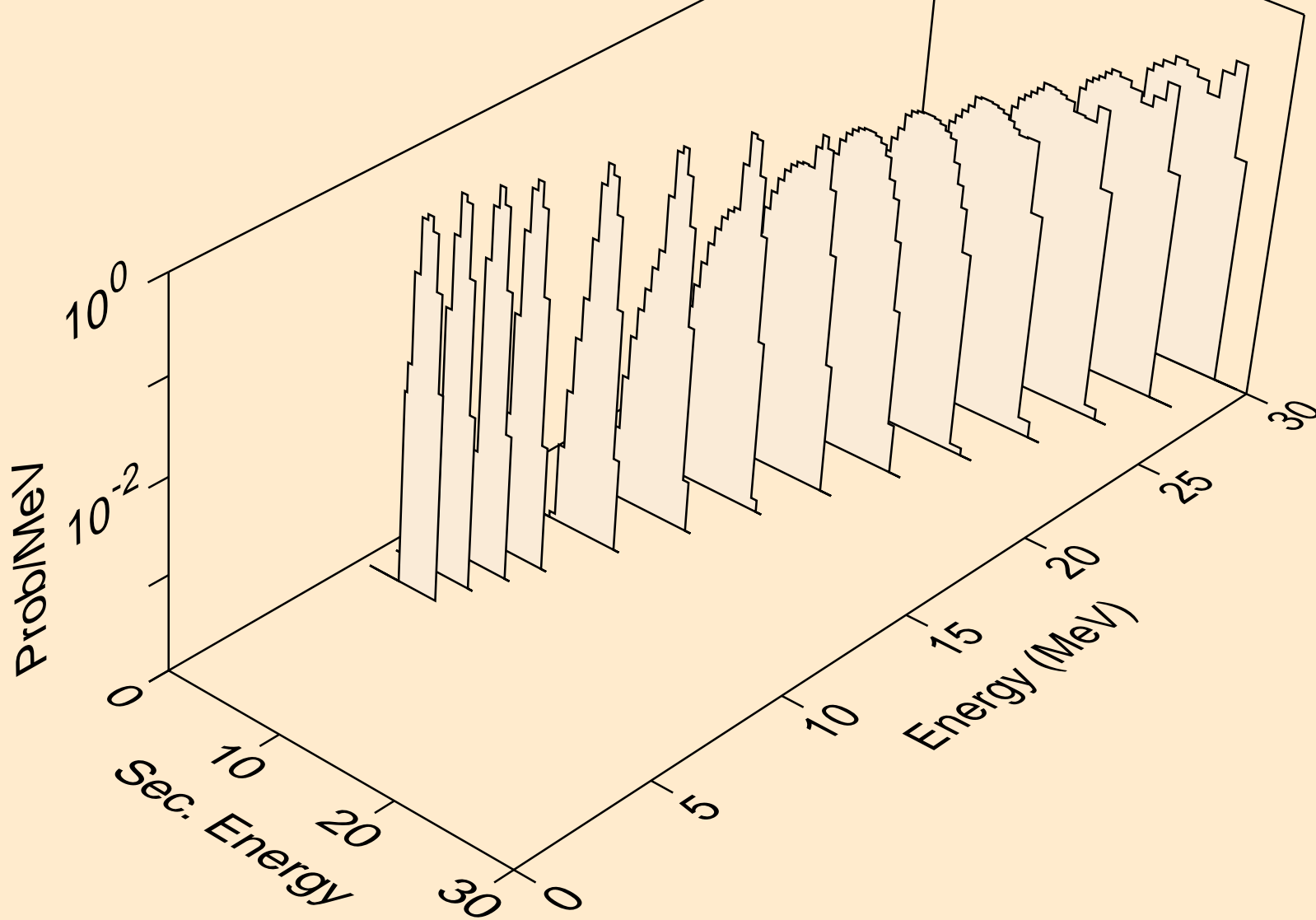
ZR091 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
Alpha emission for (a,n\*)a



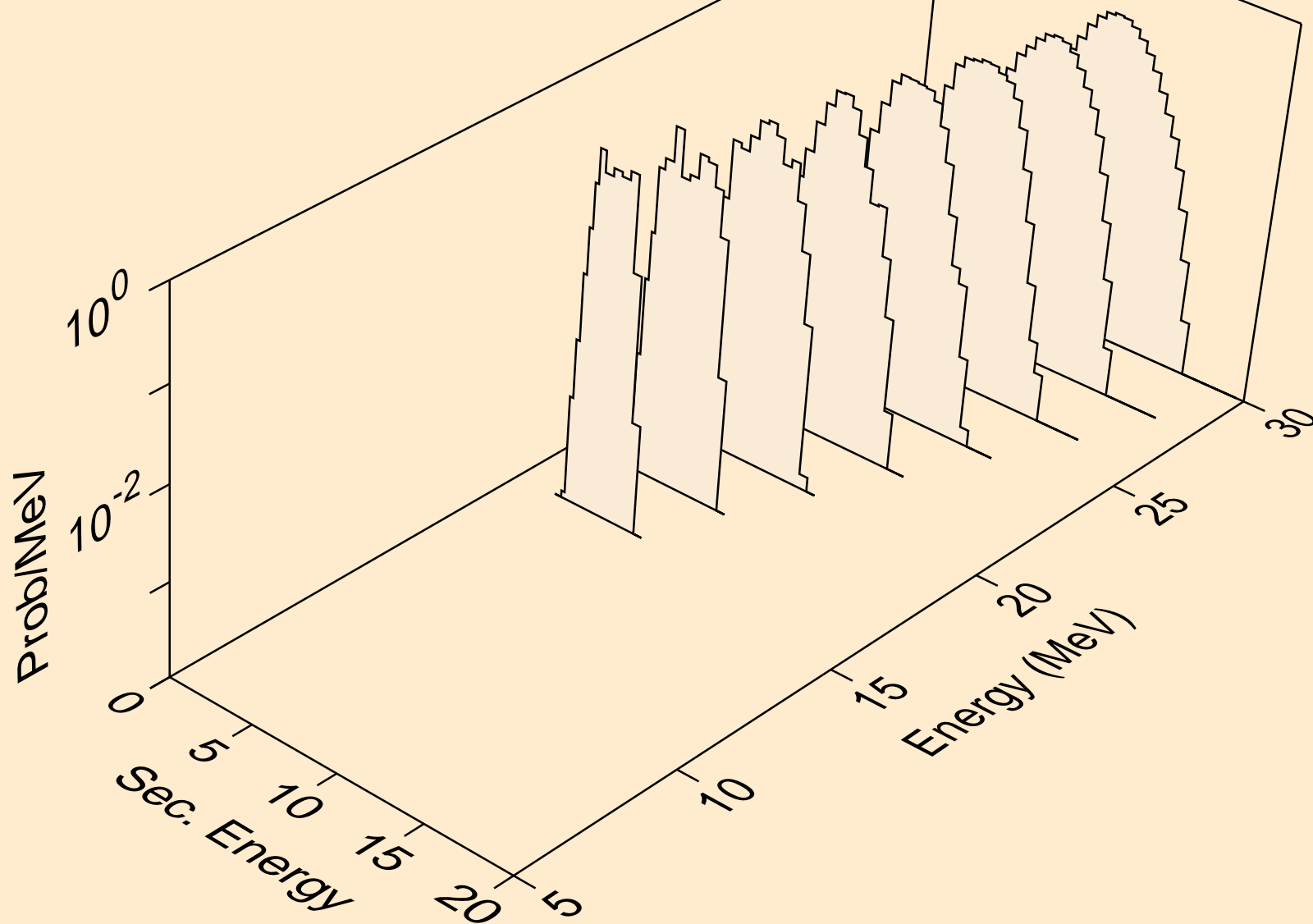
ZR091 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
Alpha emission for (a,2n)a



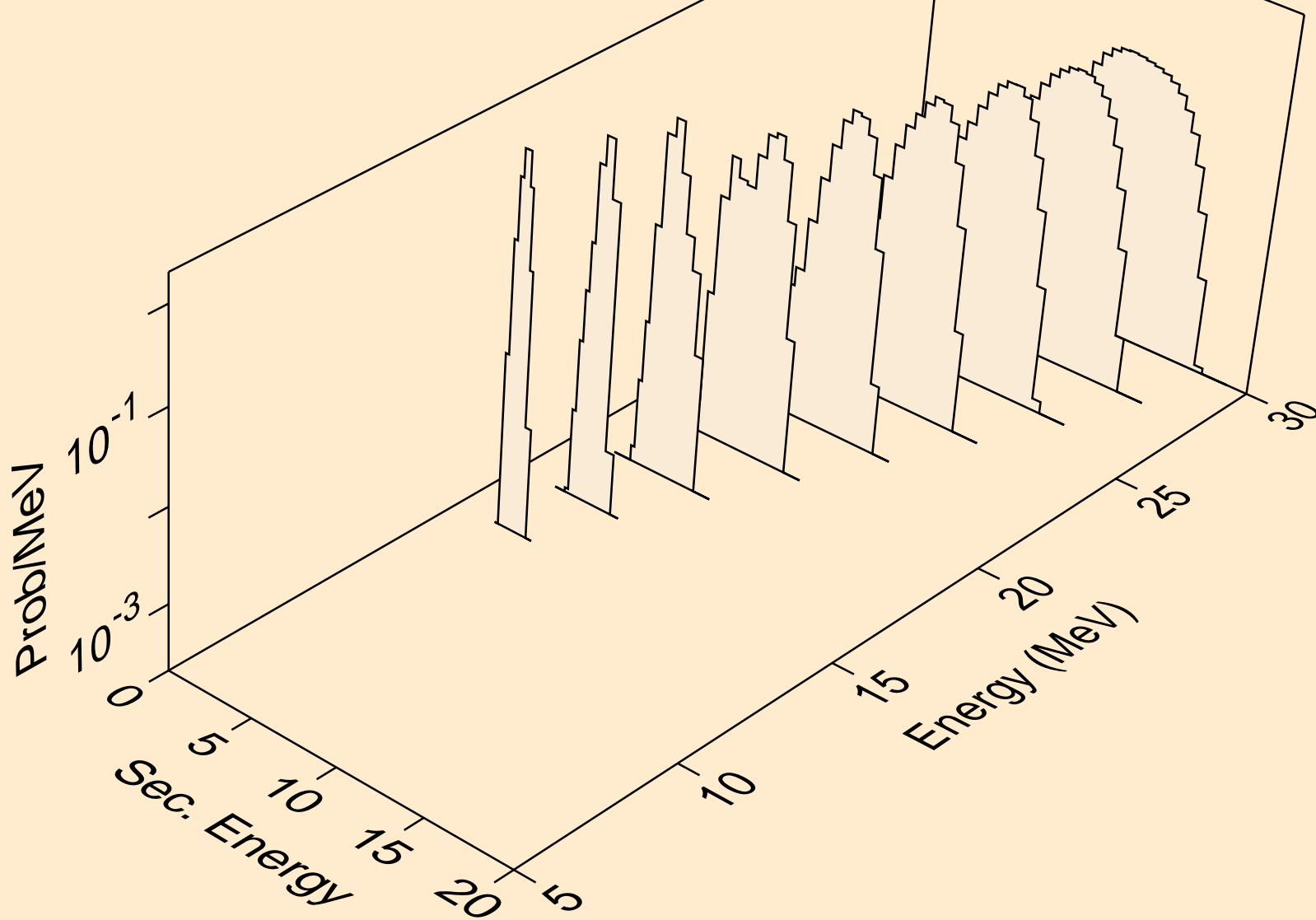
ZR091 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
Alpha emission for inelastic



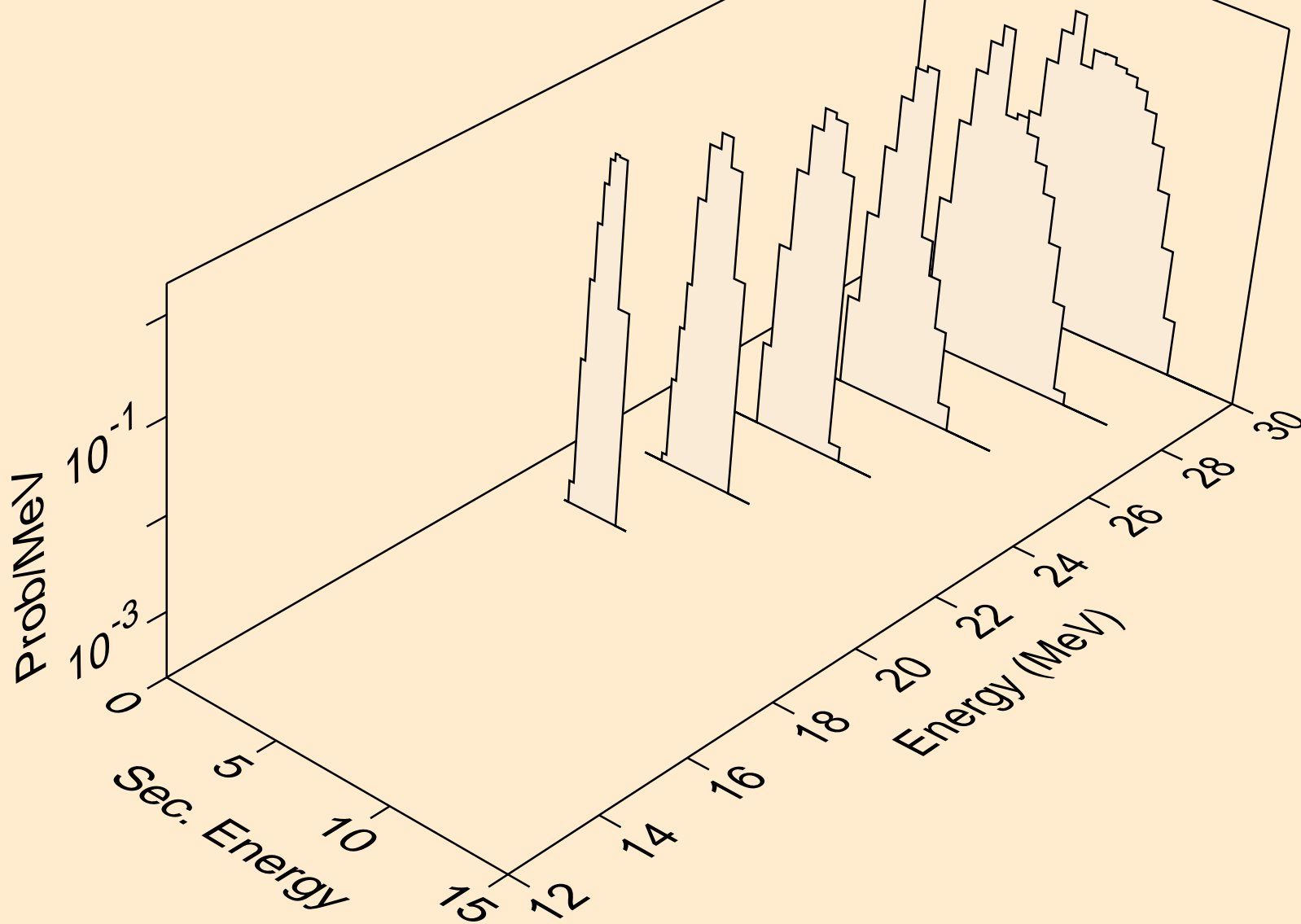
ZR091 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
Alpha emission for (a,2a)



ZR091 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
Alpha emission for (a,pa)

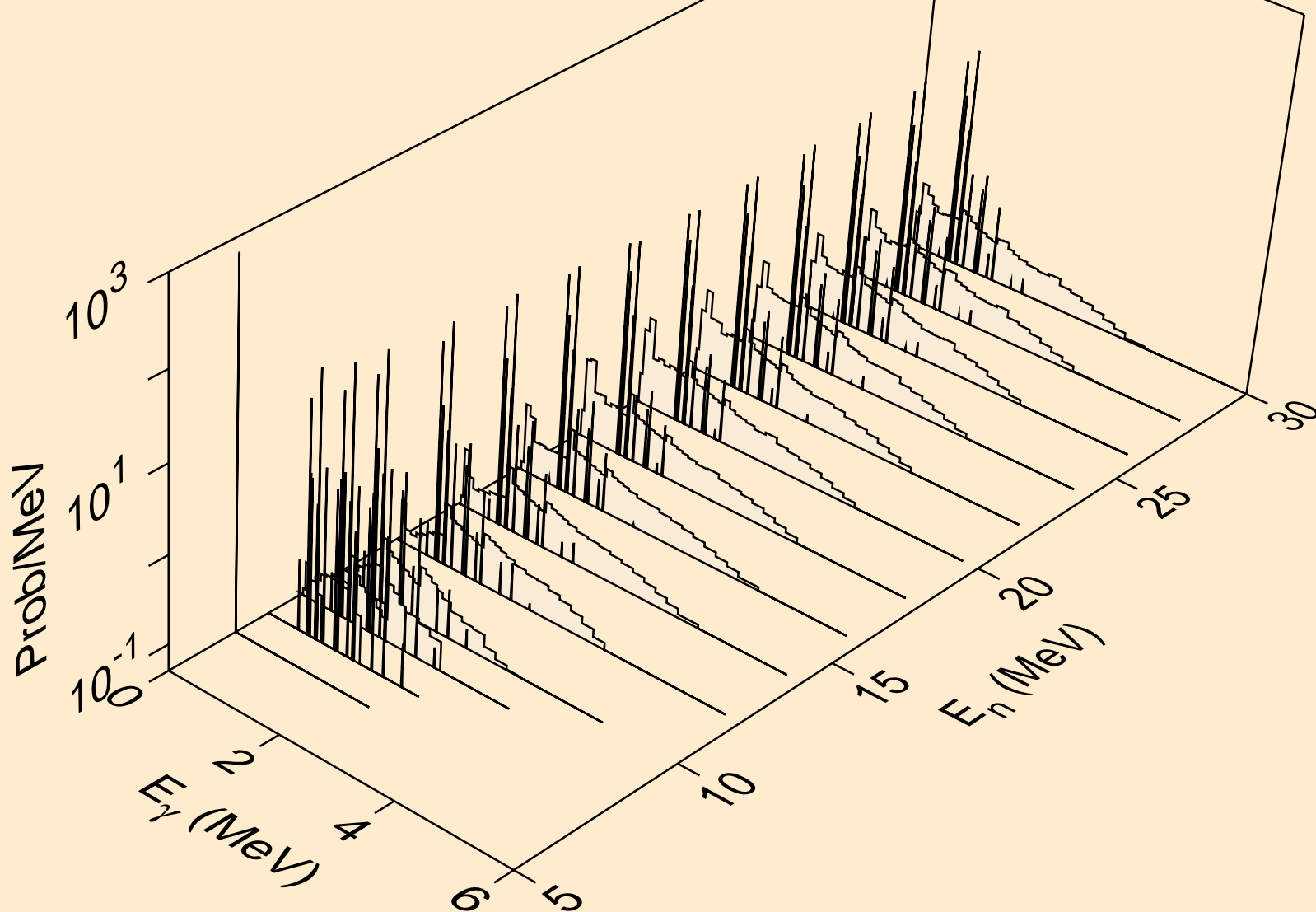


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Alpha emission for (a,da)

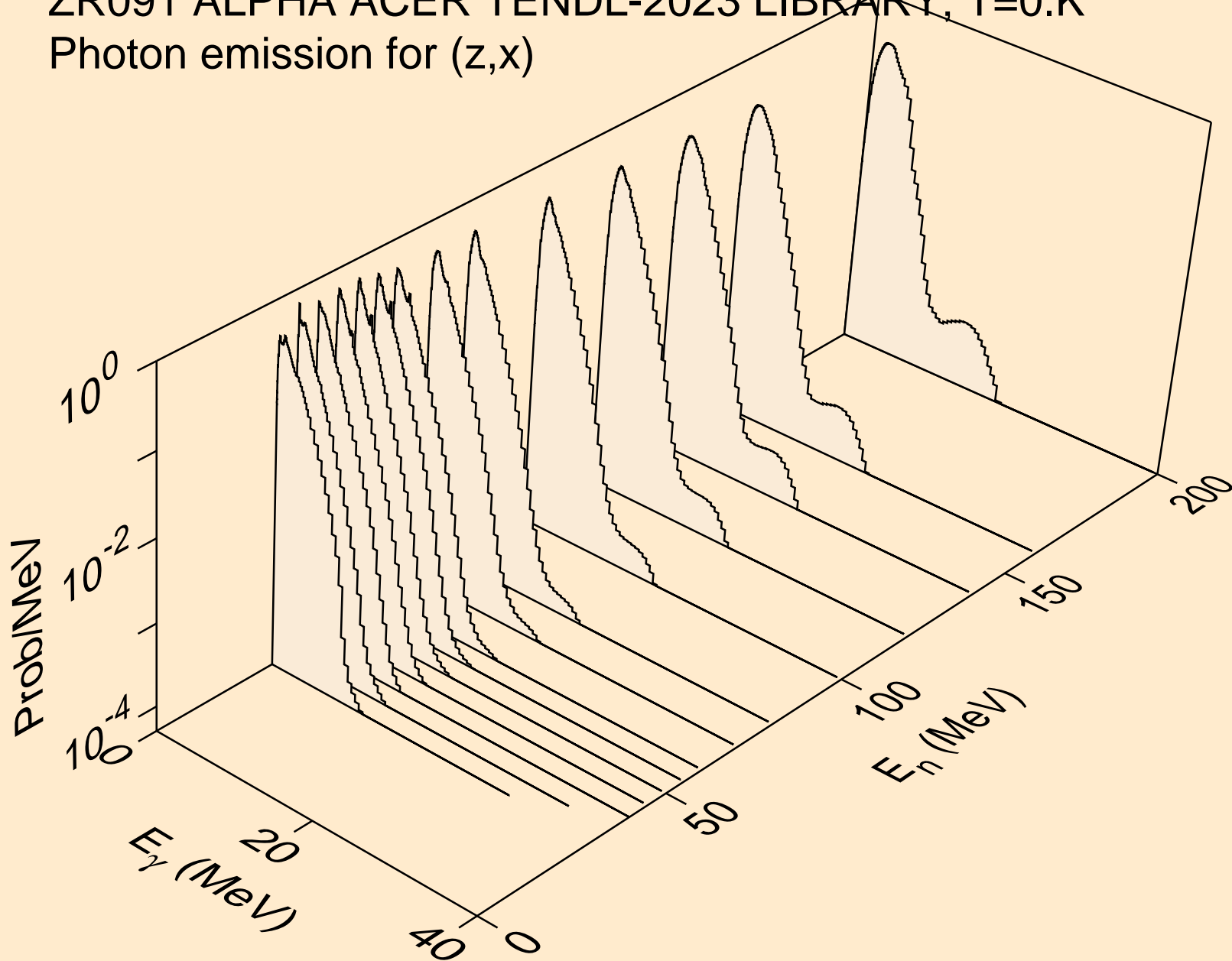




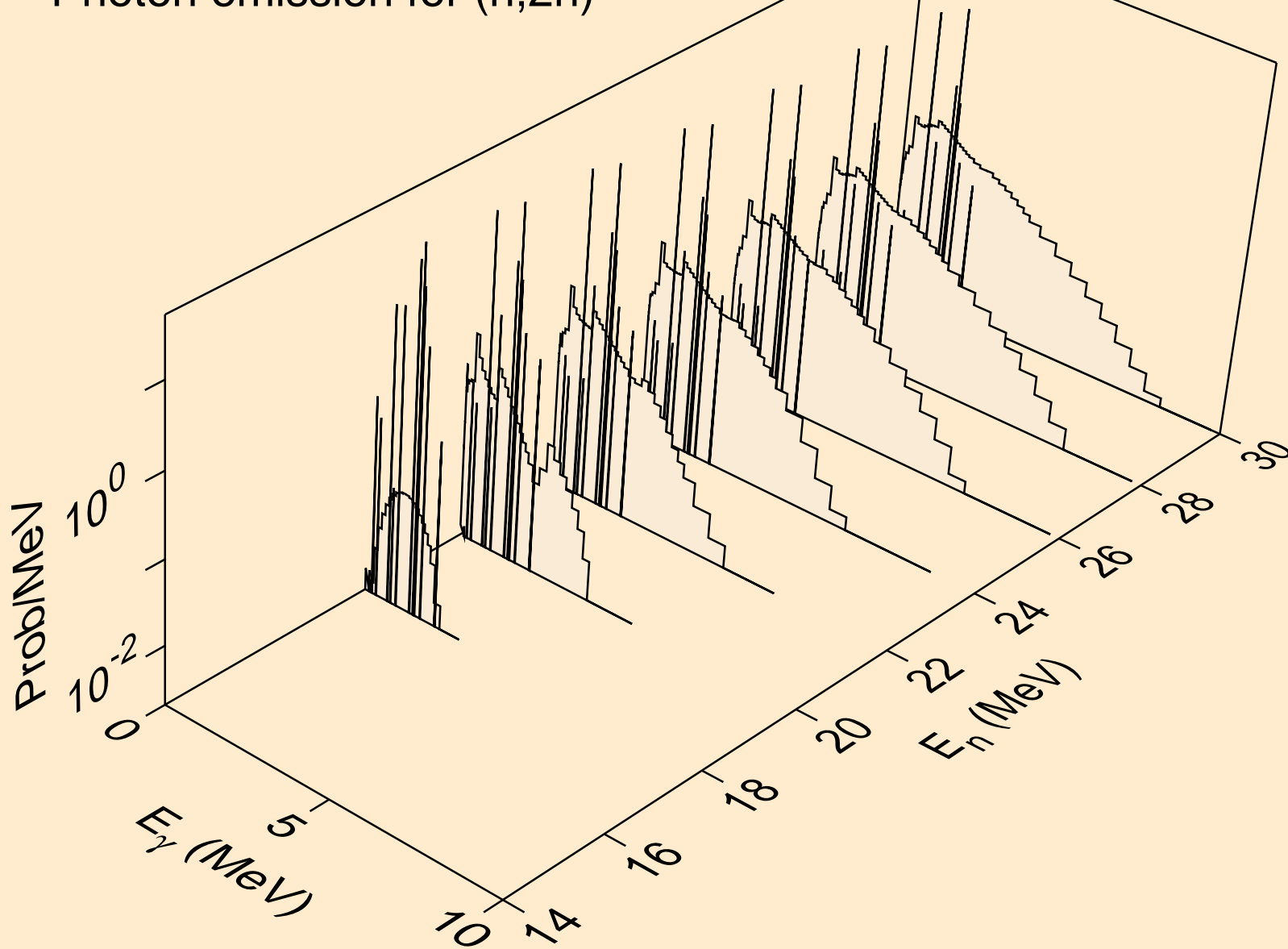
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Photon emission for (z,n)



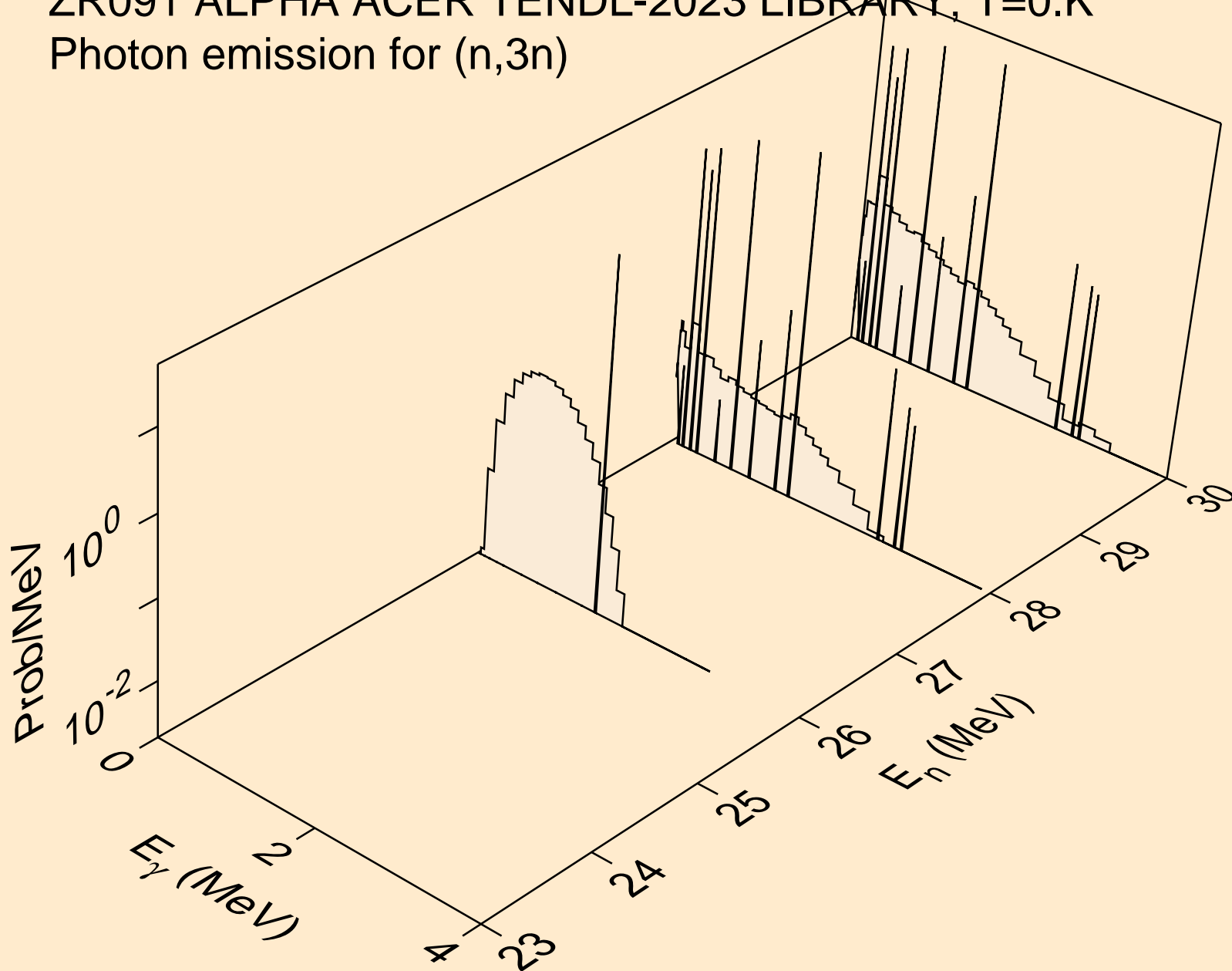
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Photon emission for (z,x)



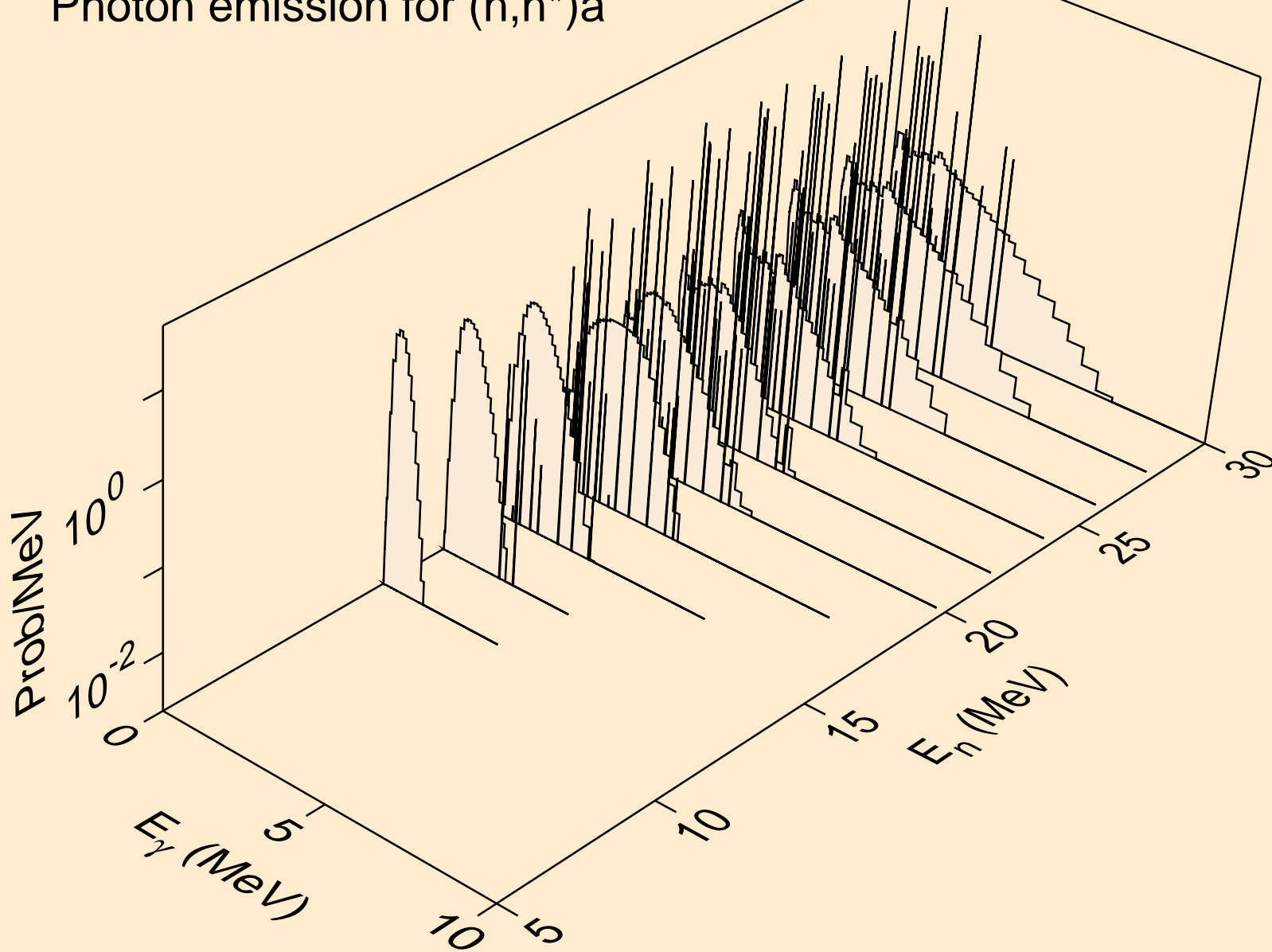
ZR091 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2n)



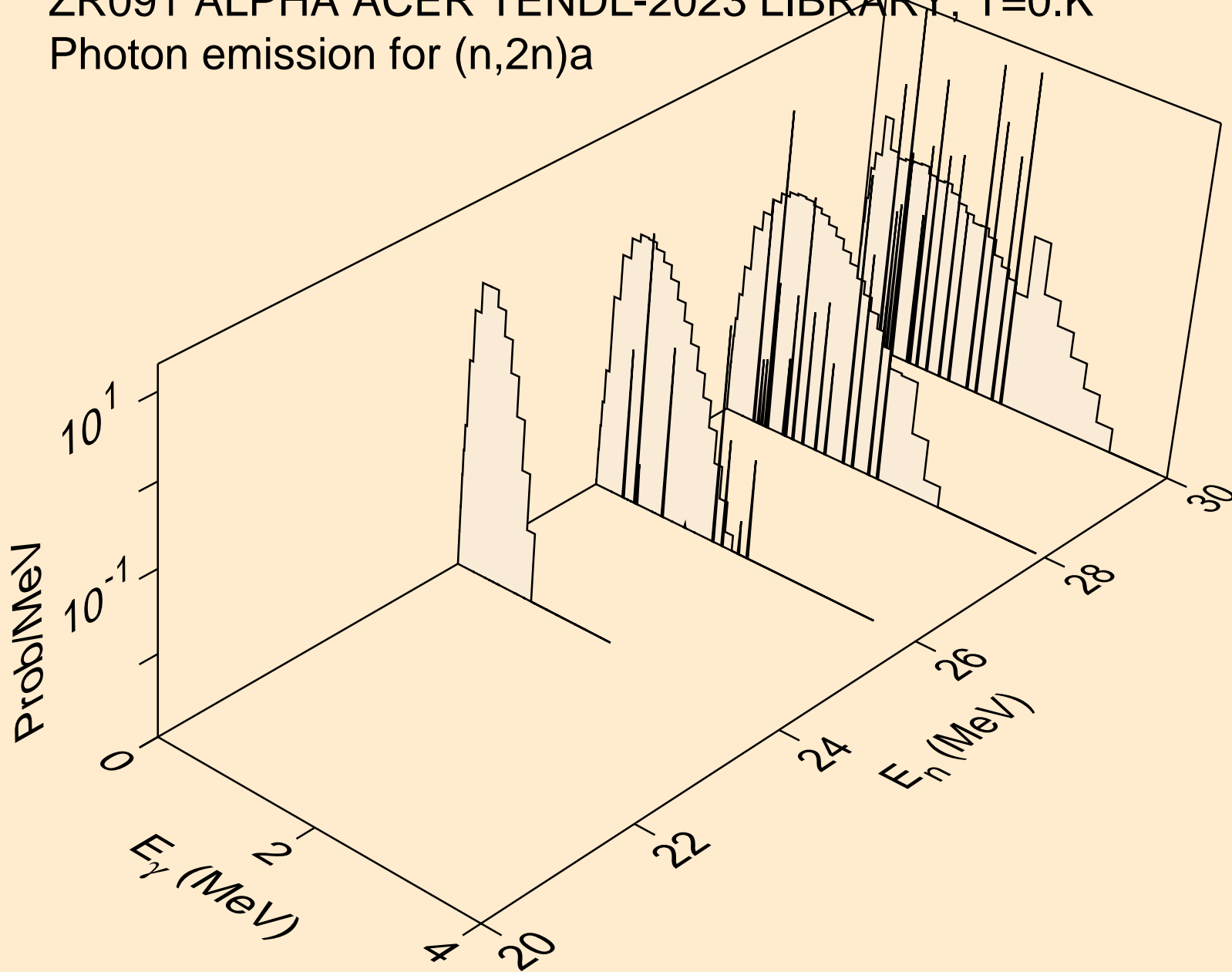
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Photon emission for (n,3n)



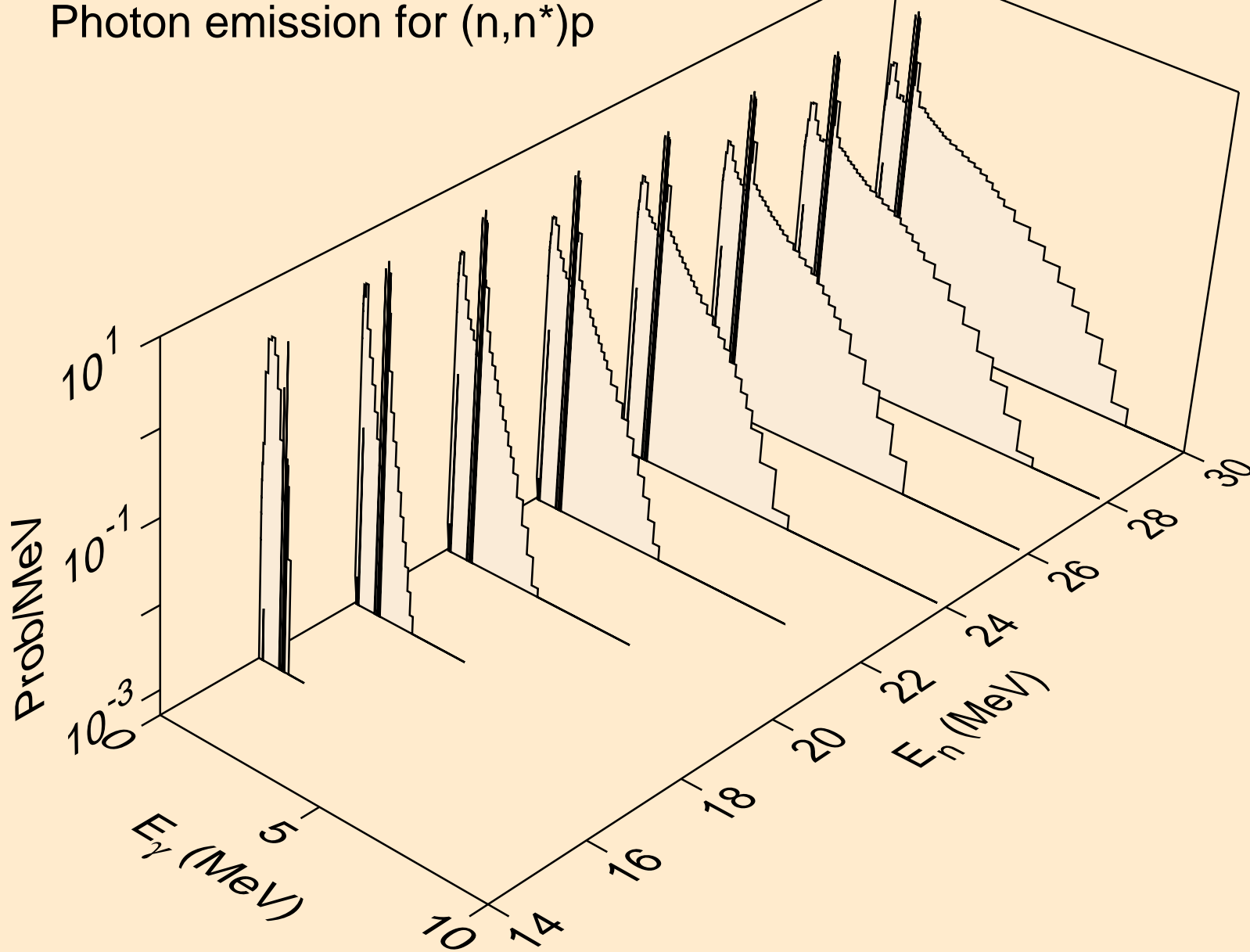
ZR091 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)a



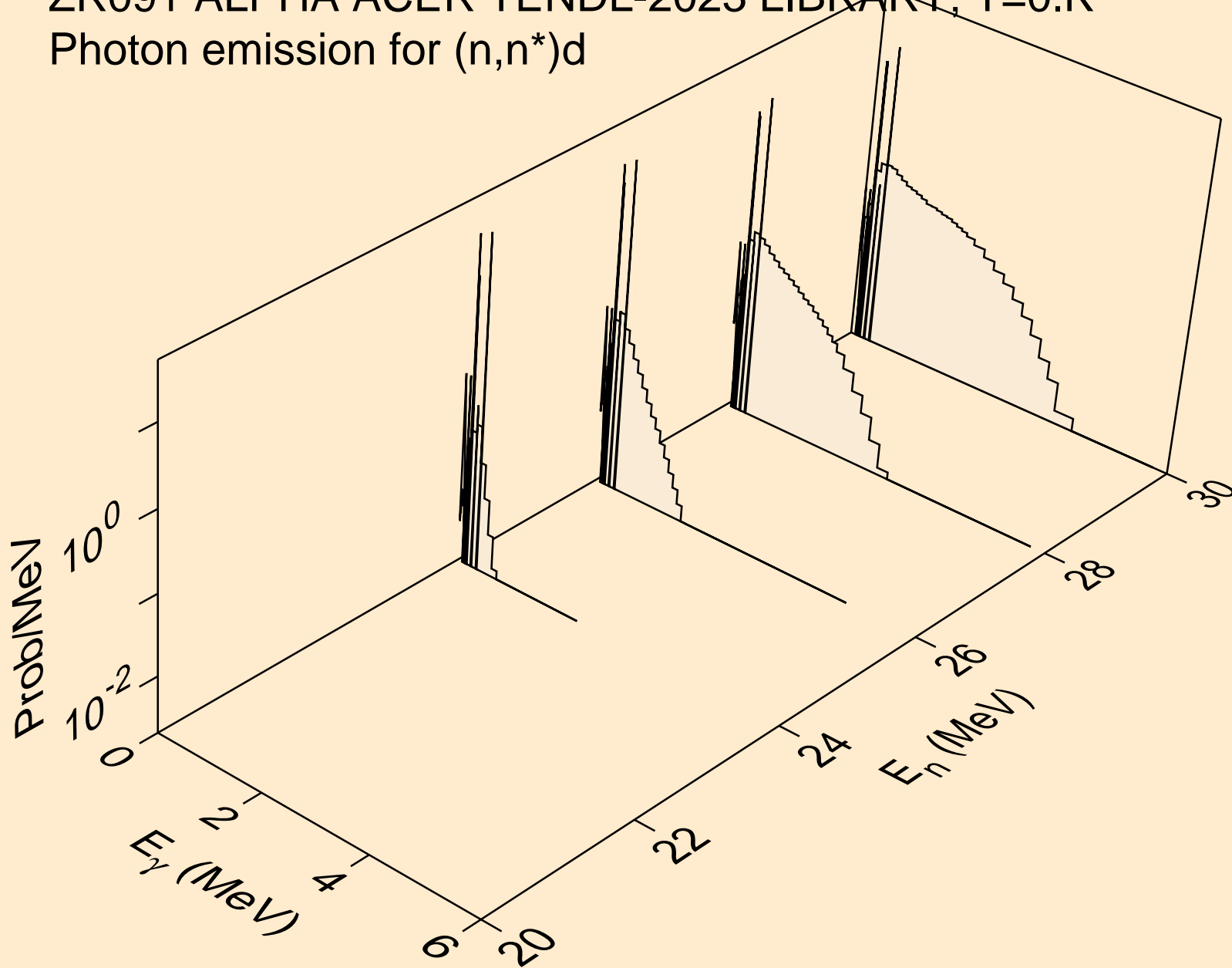
ZR091 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2n)a



ZR091 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)p

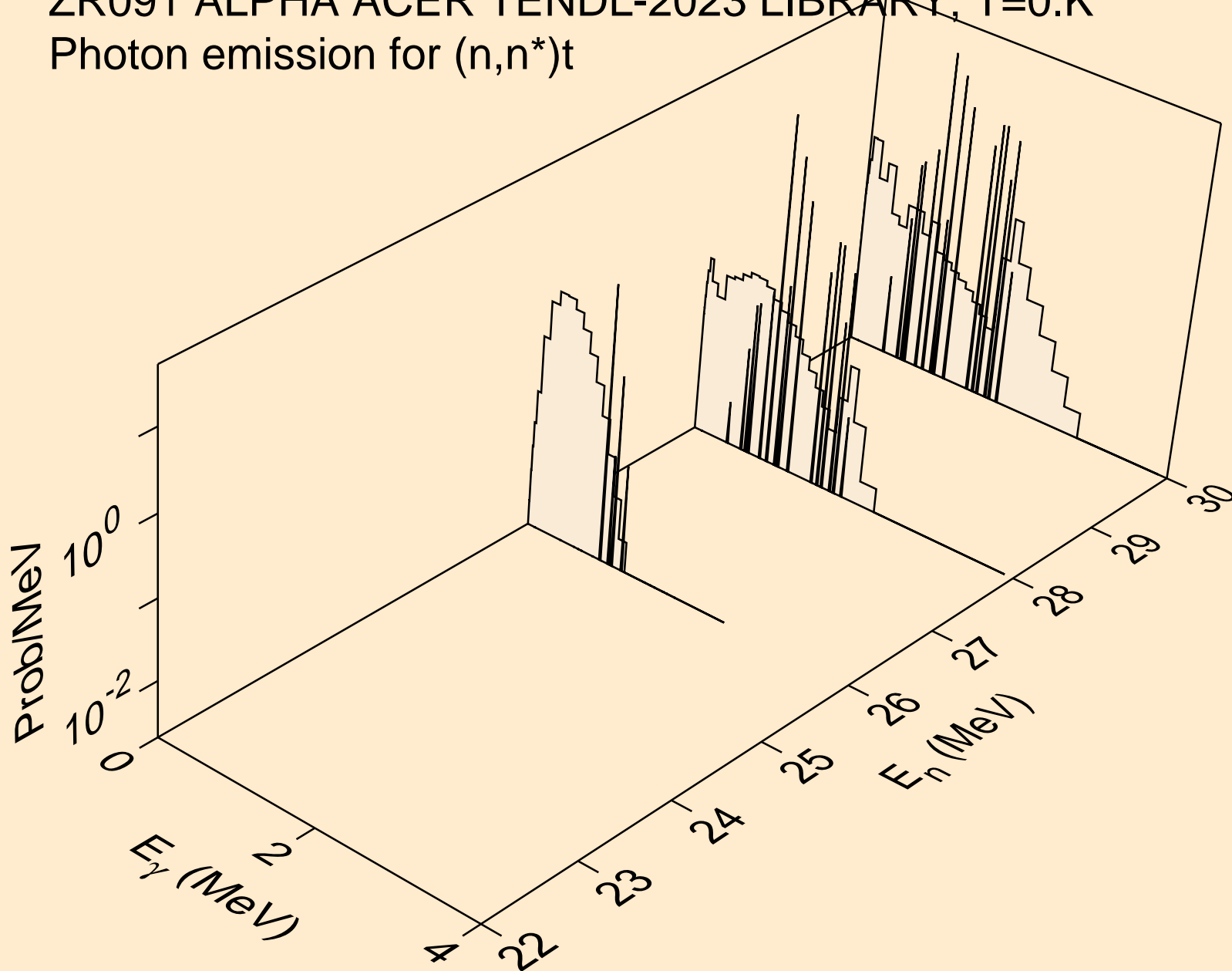


ZR091 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)d

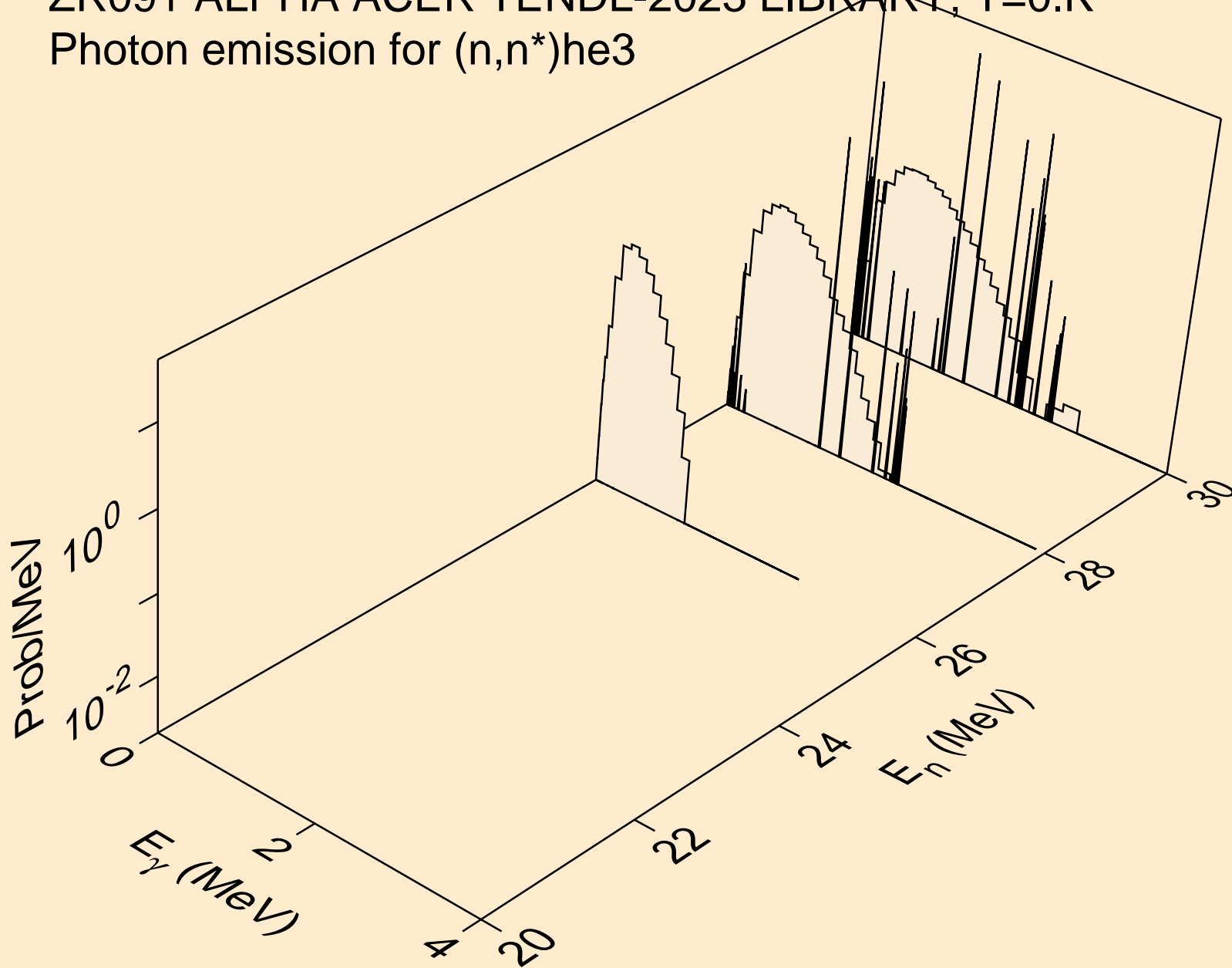




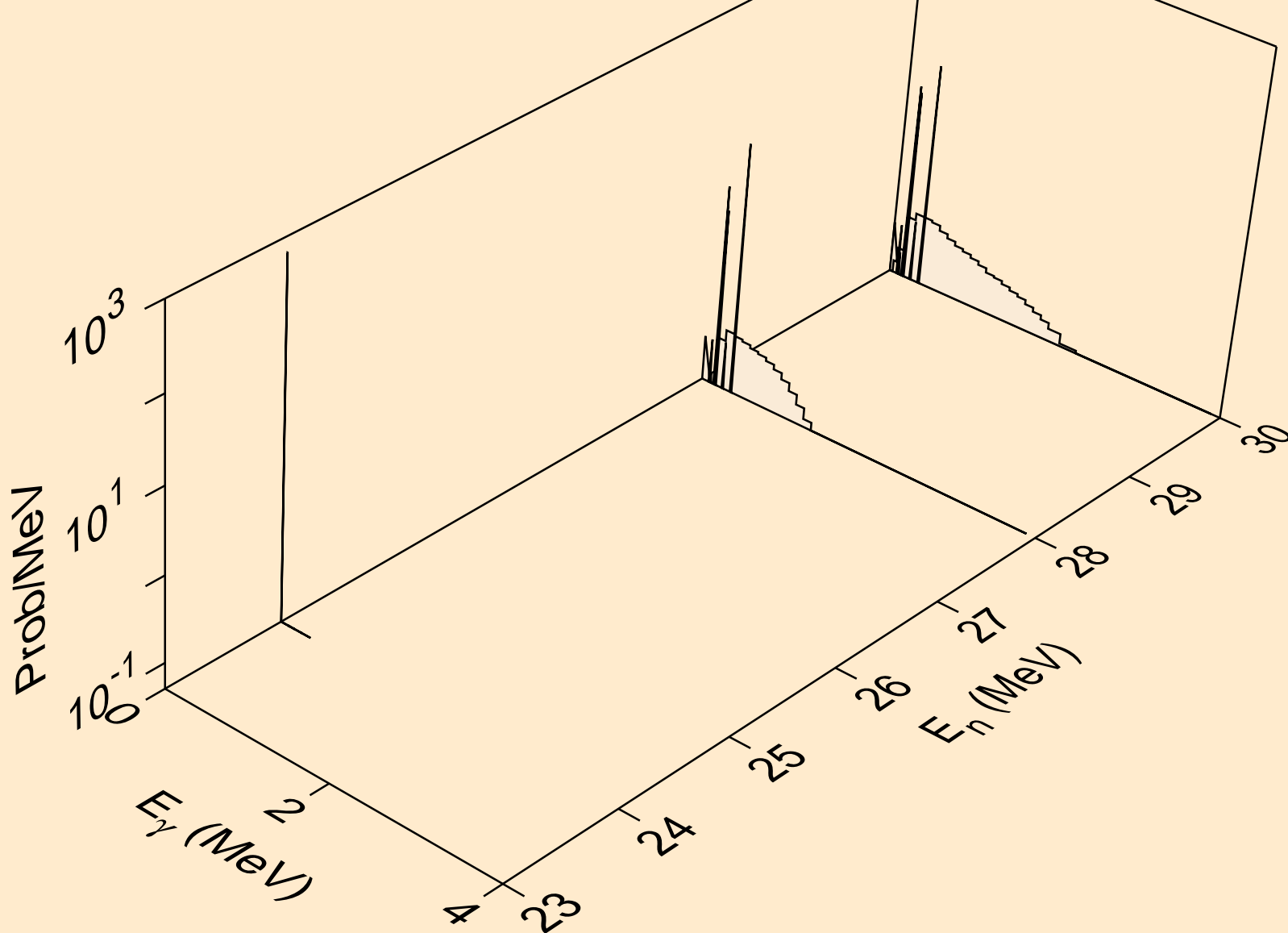
ZR091 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)t



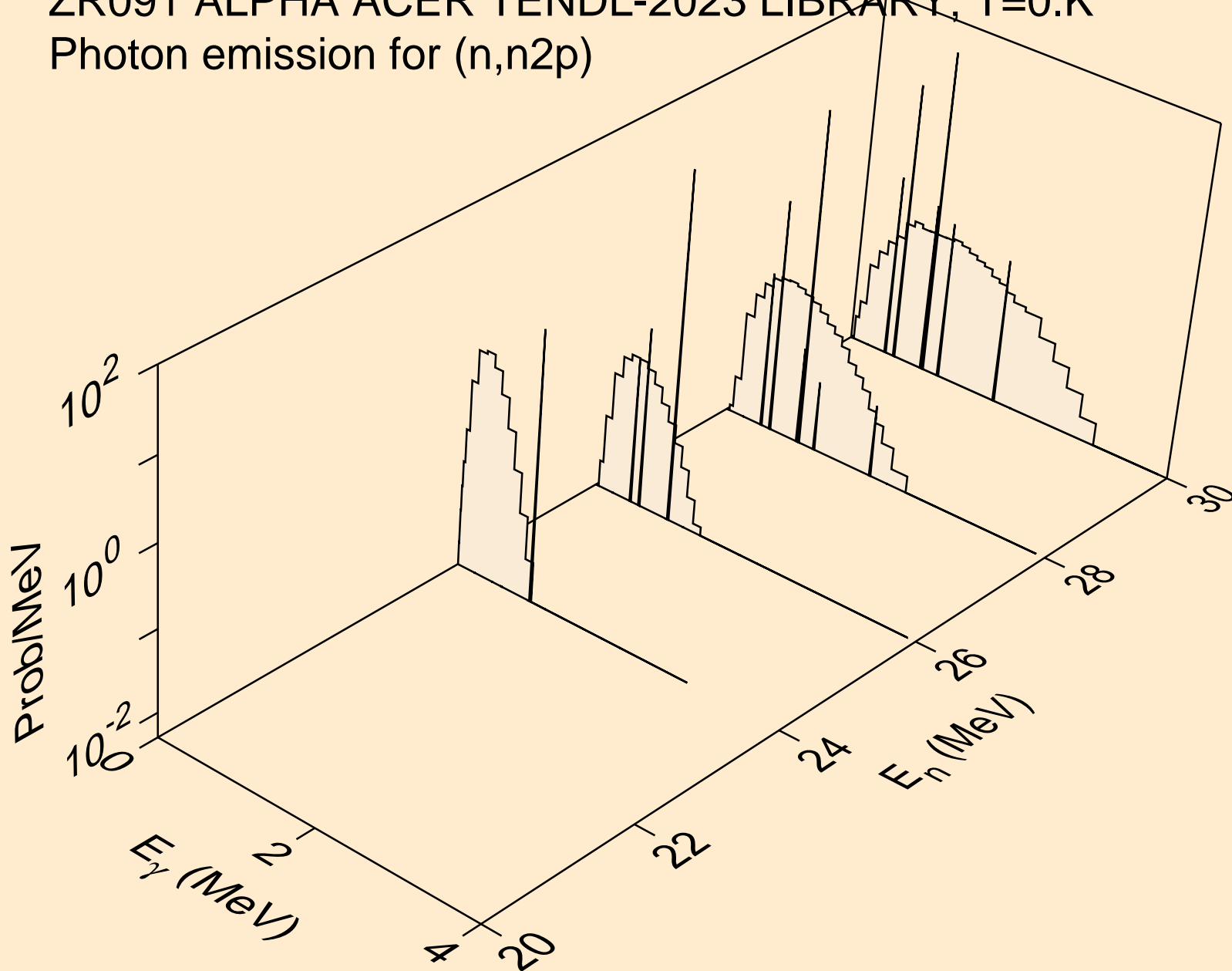
ZR091 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)he3



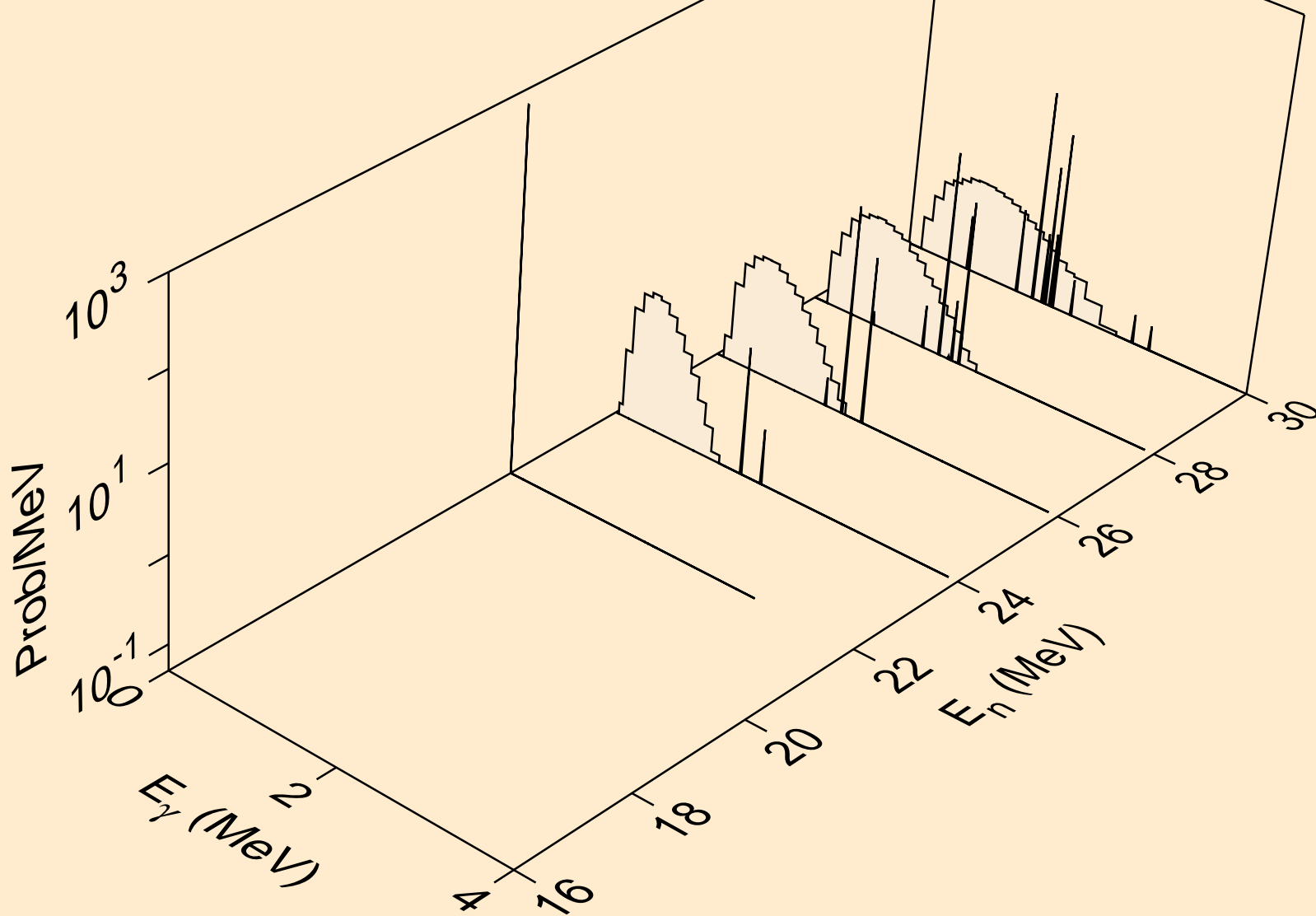
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Photon emission for (n,2np)



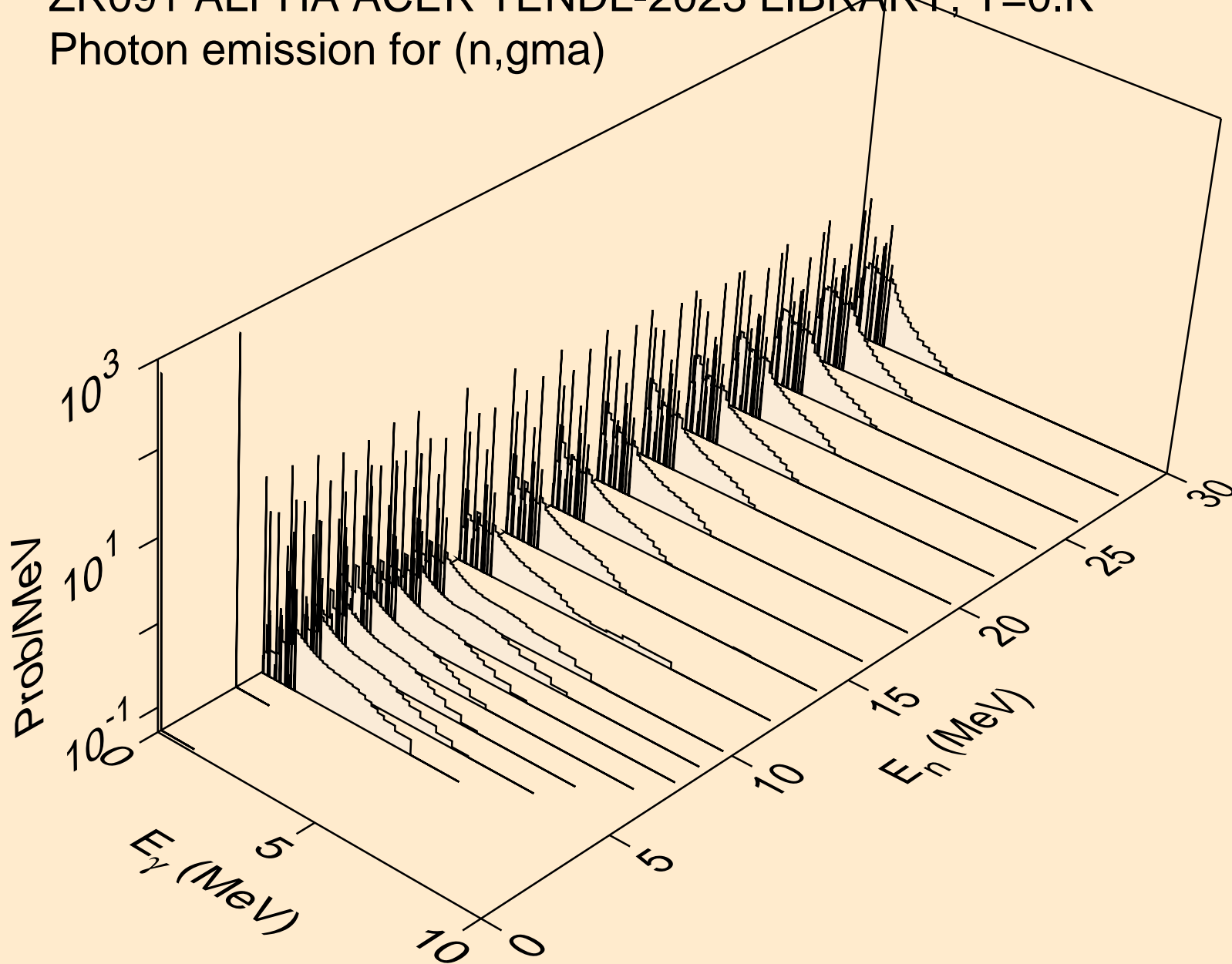
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Photon emission for (n,n2p)



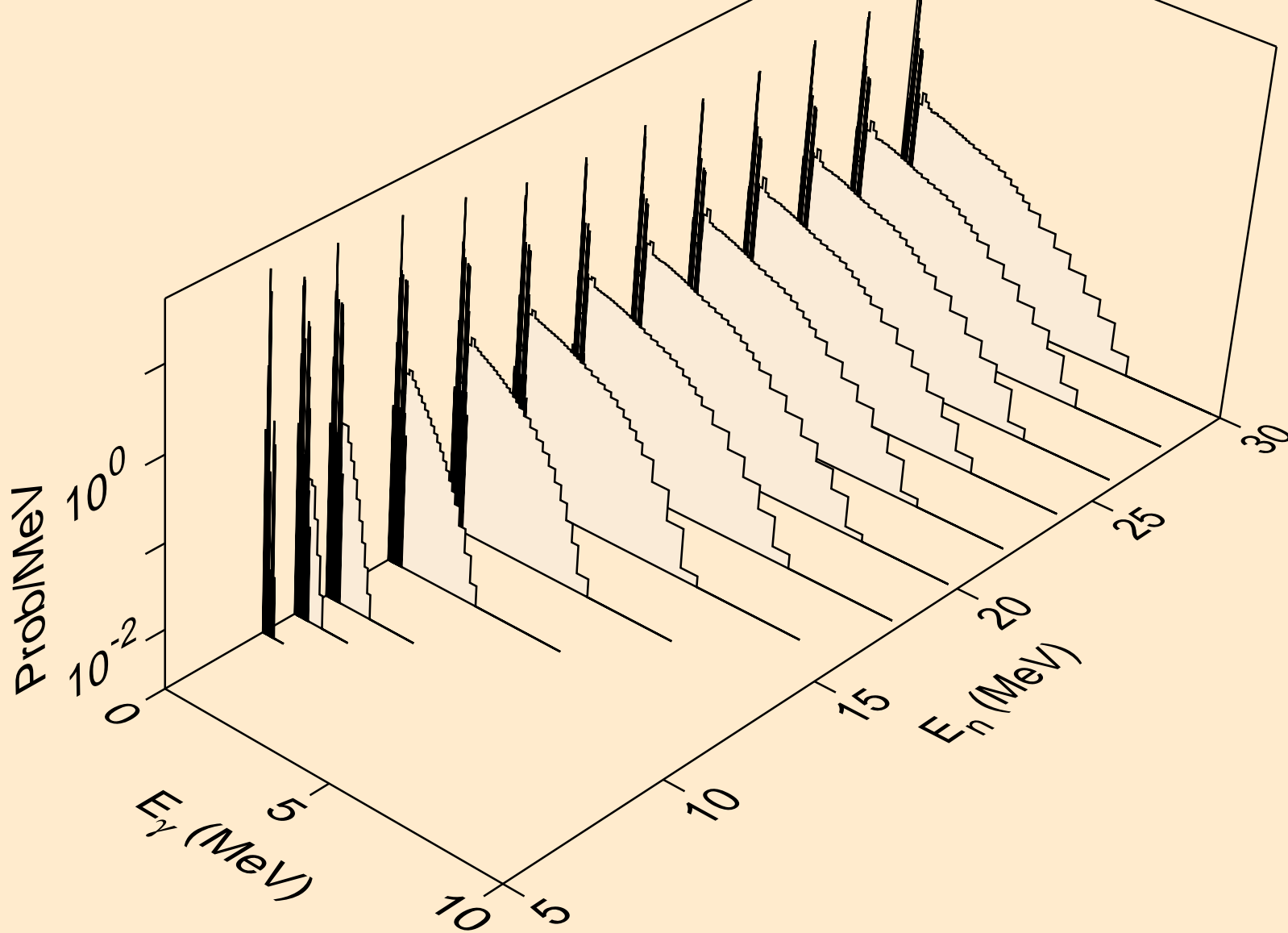
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Photon emission for (n,npa)



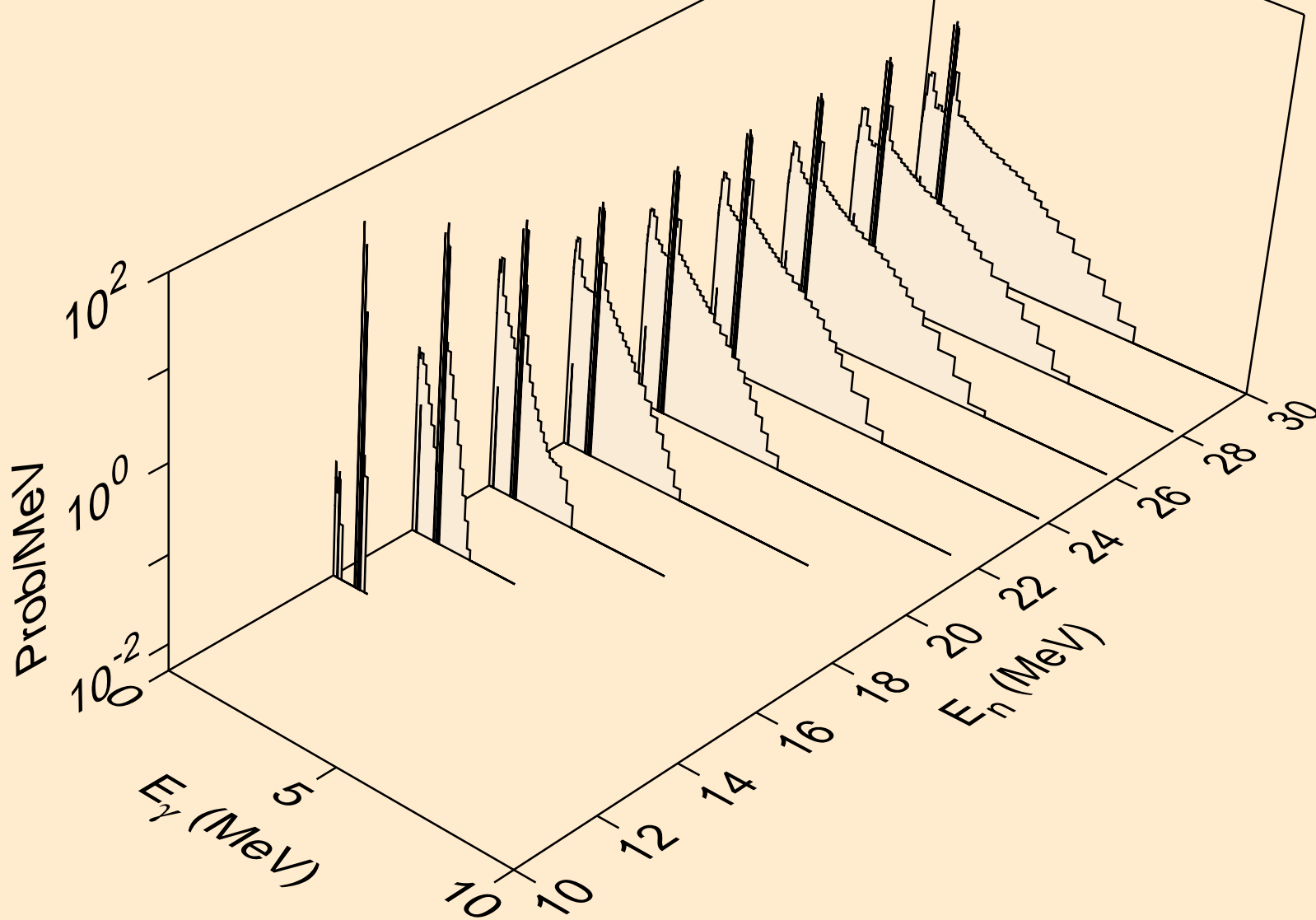
ZR091 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,gma)



ZR091 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,p)

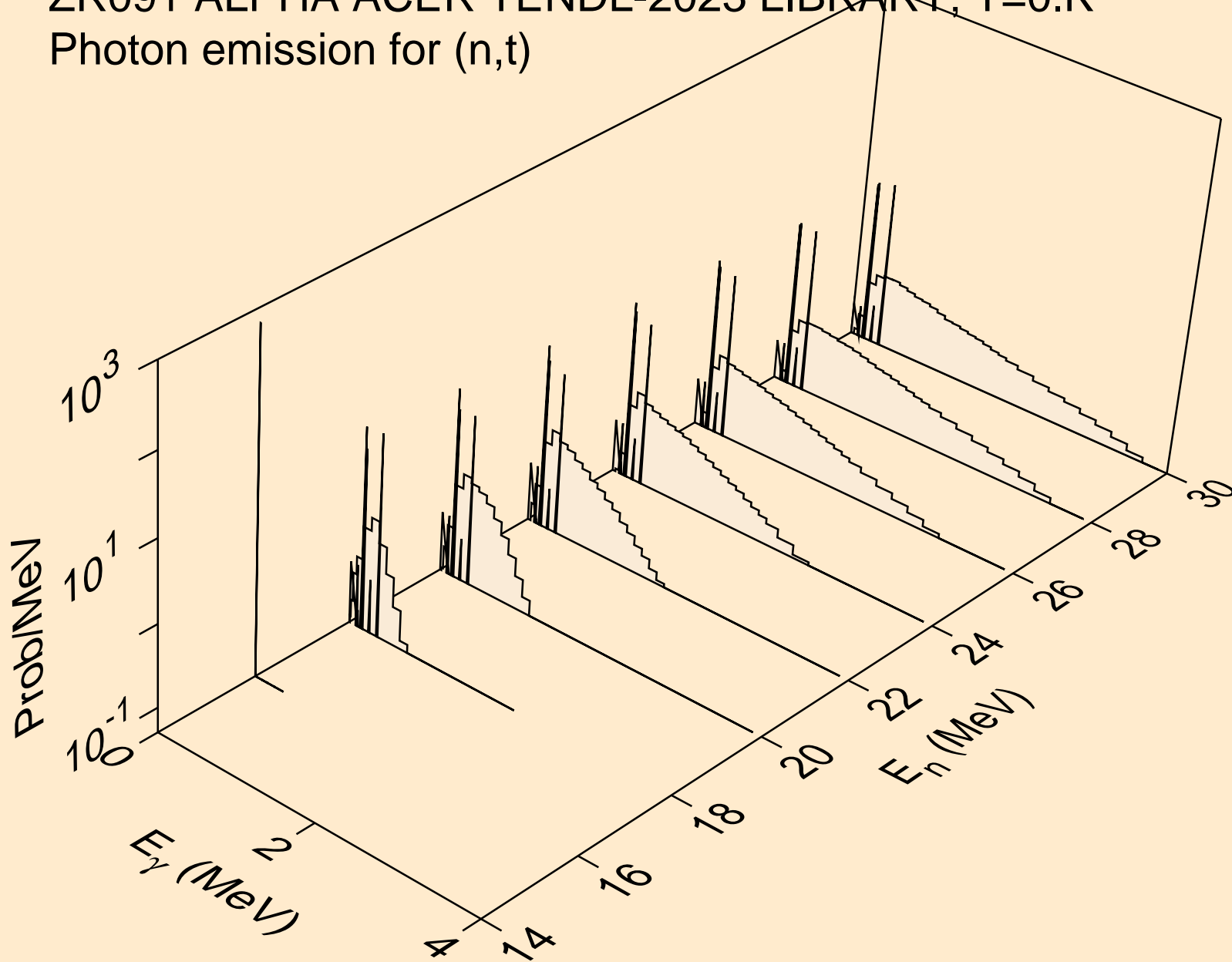


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Photon emission for (n,d)

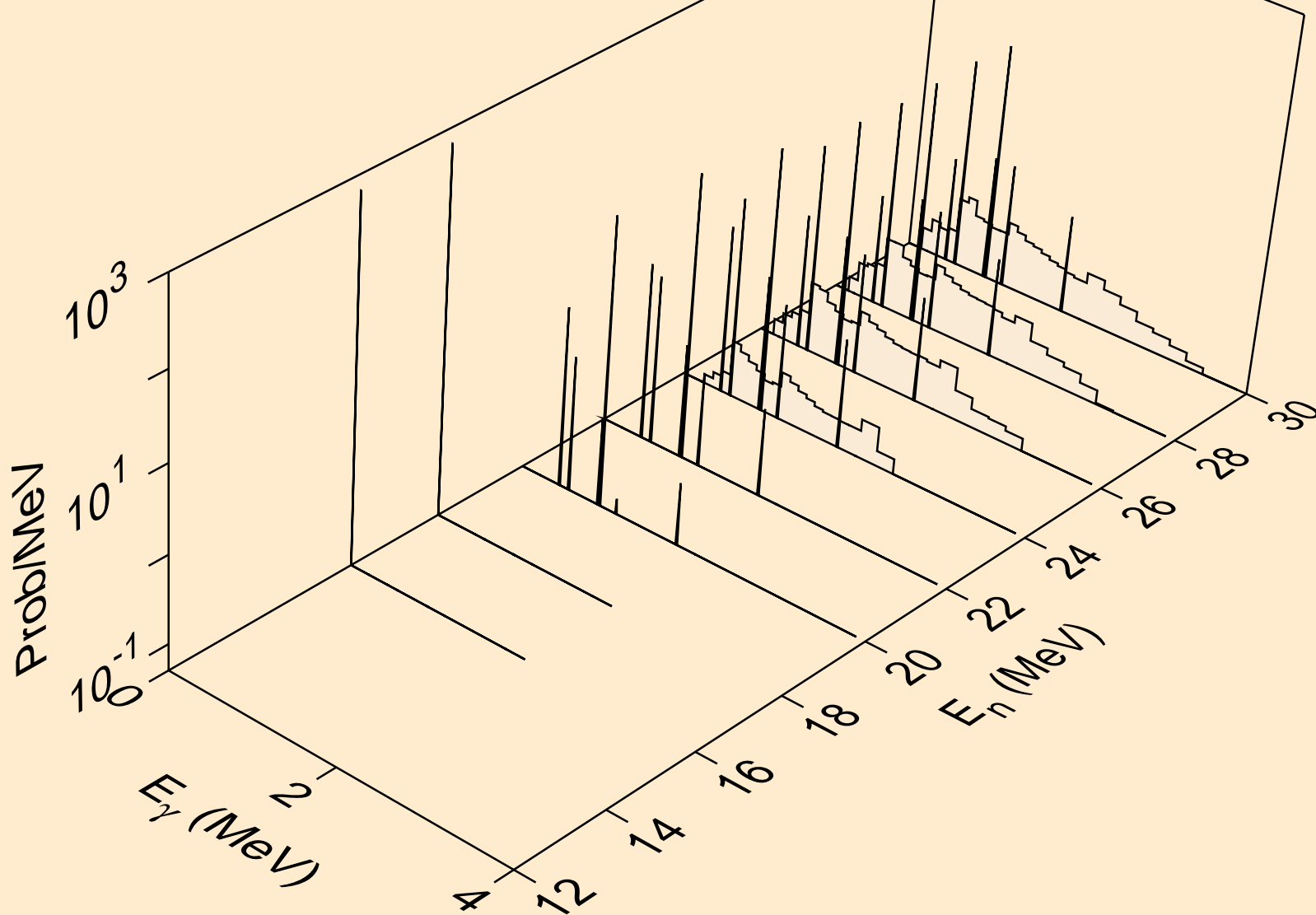




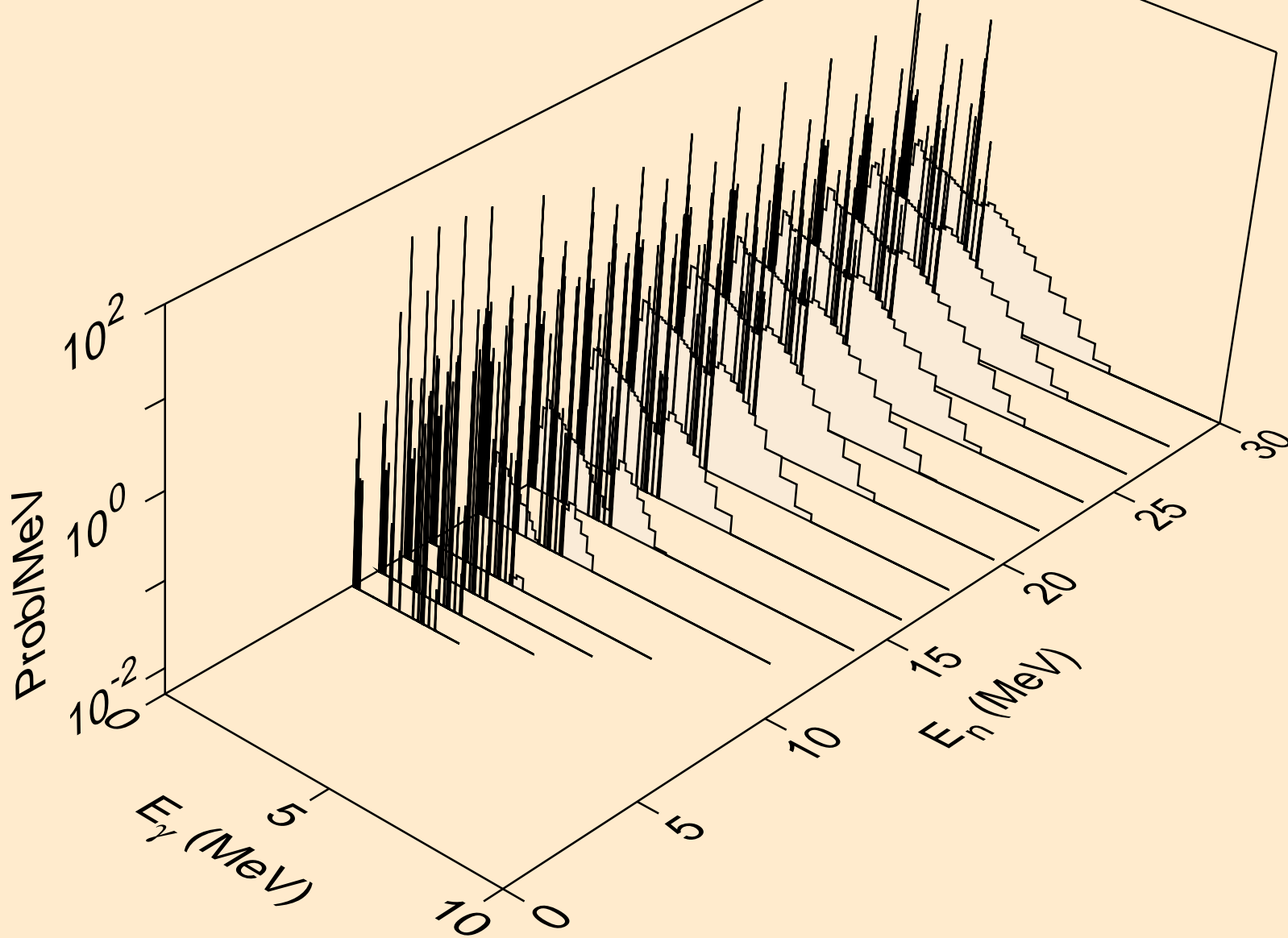
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Photon emission for (n,t)



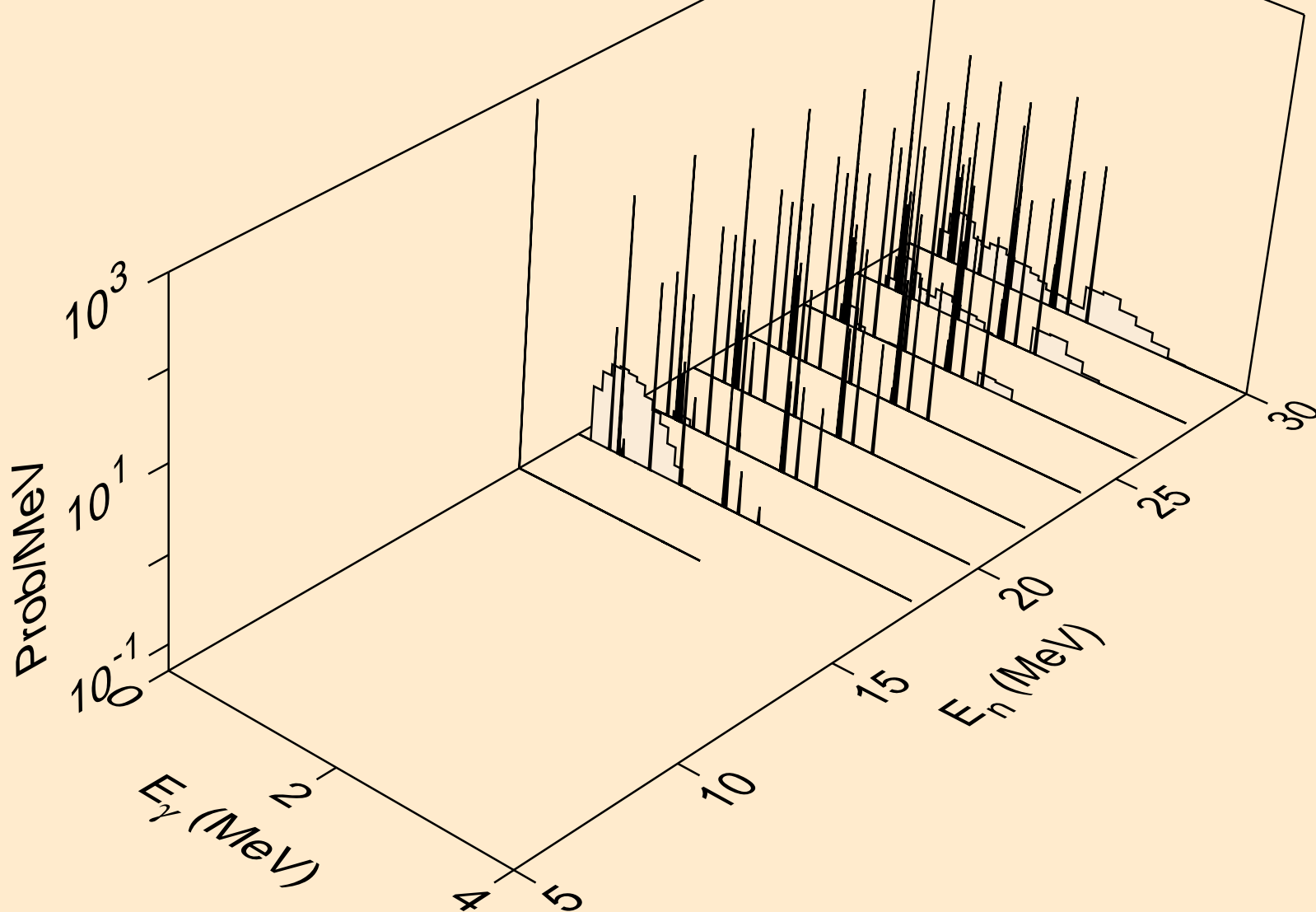
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Photon emission for (n,he3)



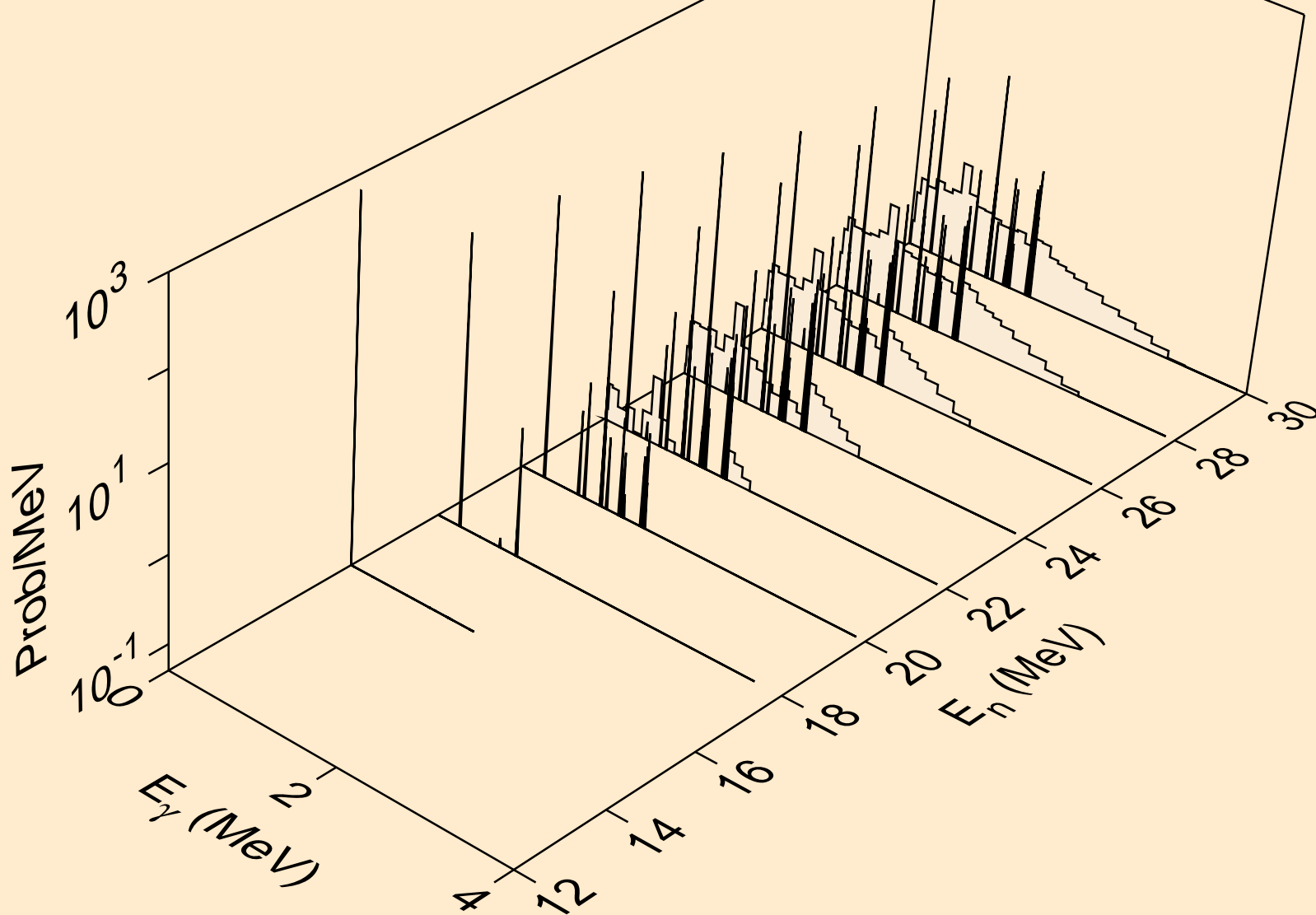
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Photon emission for inelastic



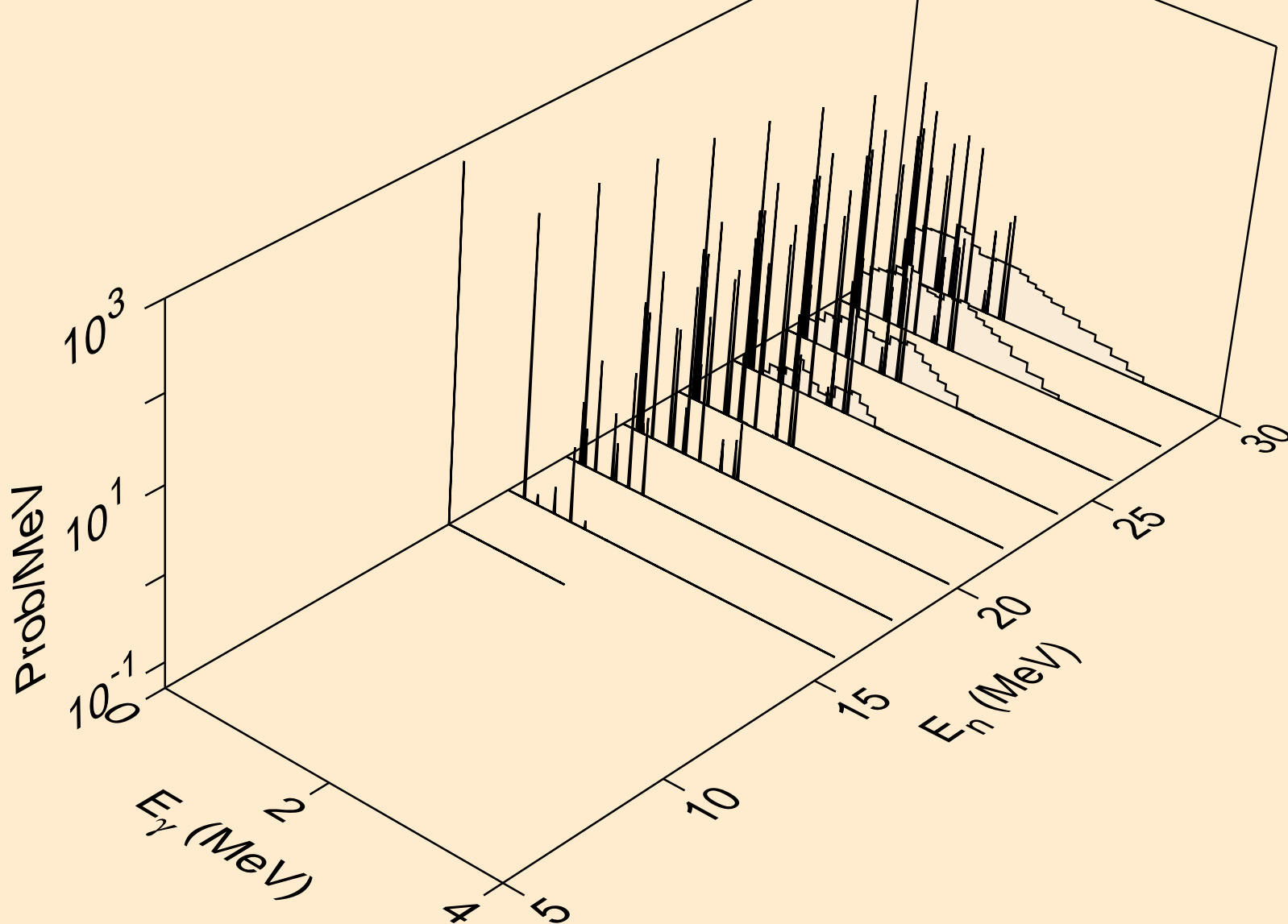
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Photon emission for (n,2a)



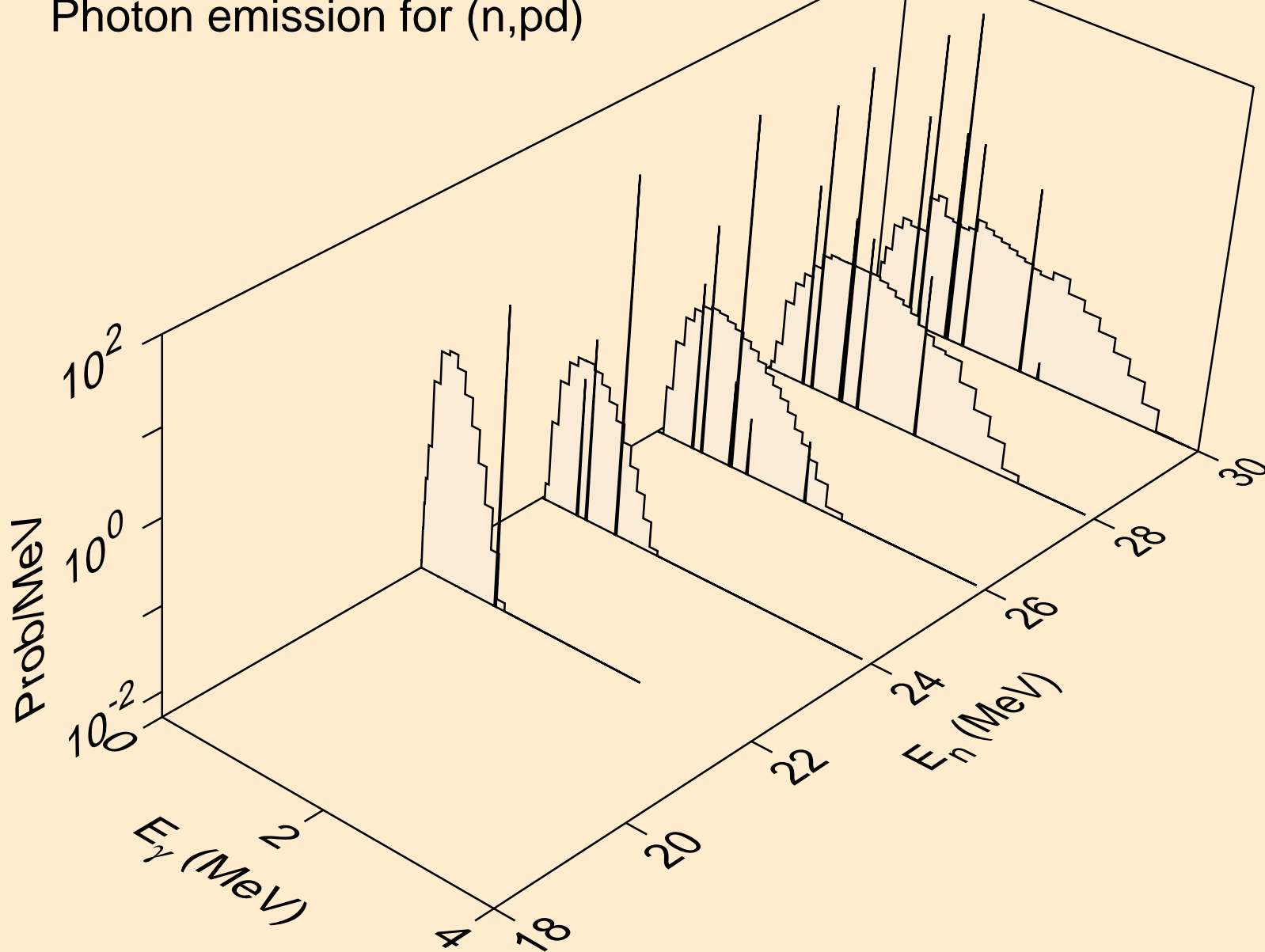
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Photon emission for (n,2p)



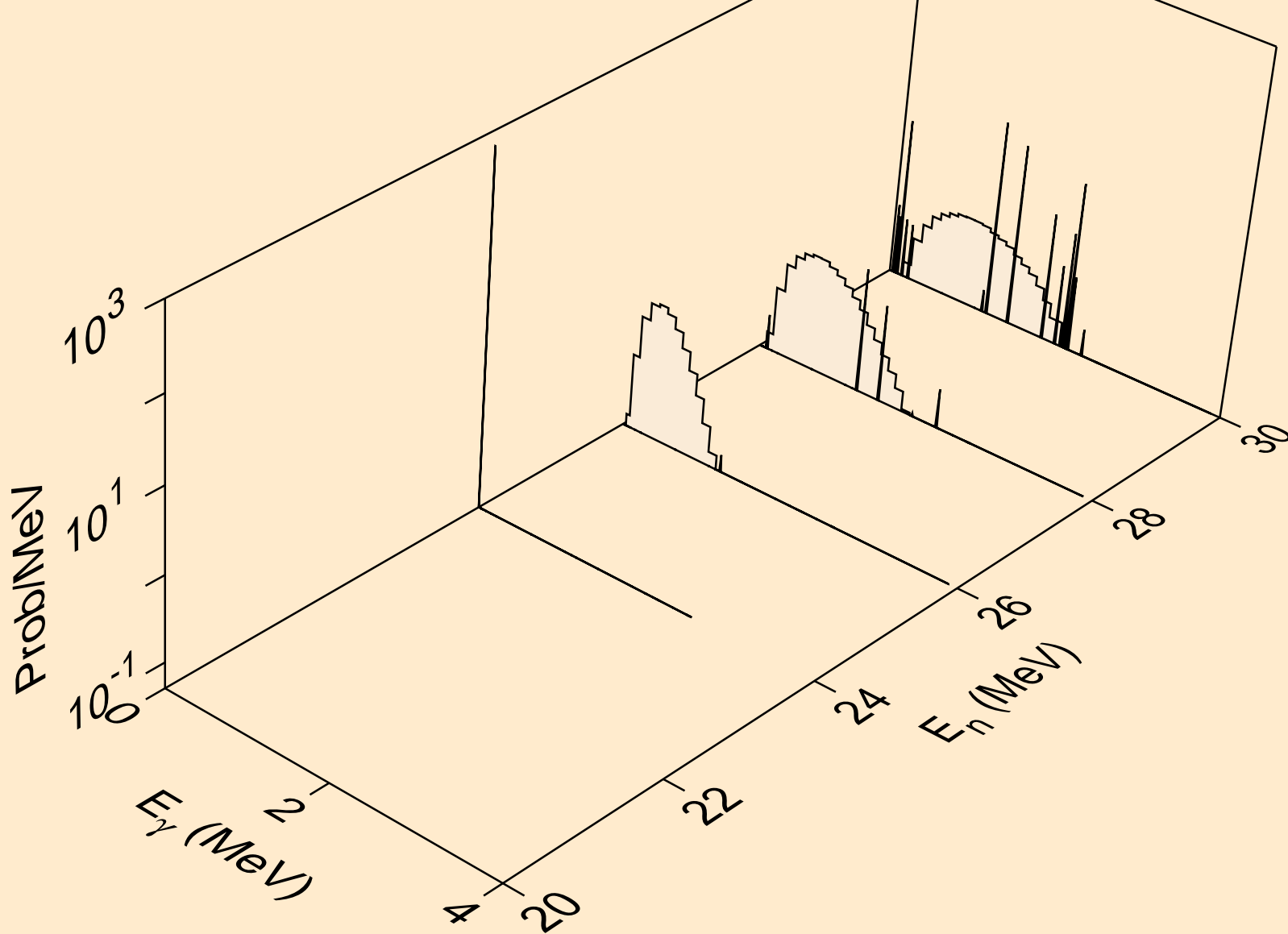
ZR091 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,pa)



ZR091 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,pd)

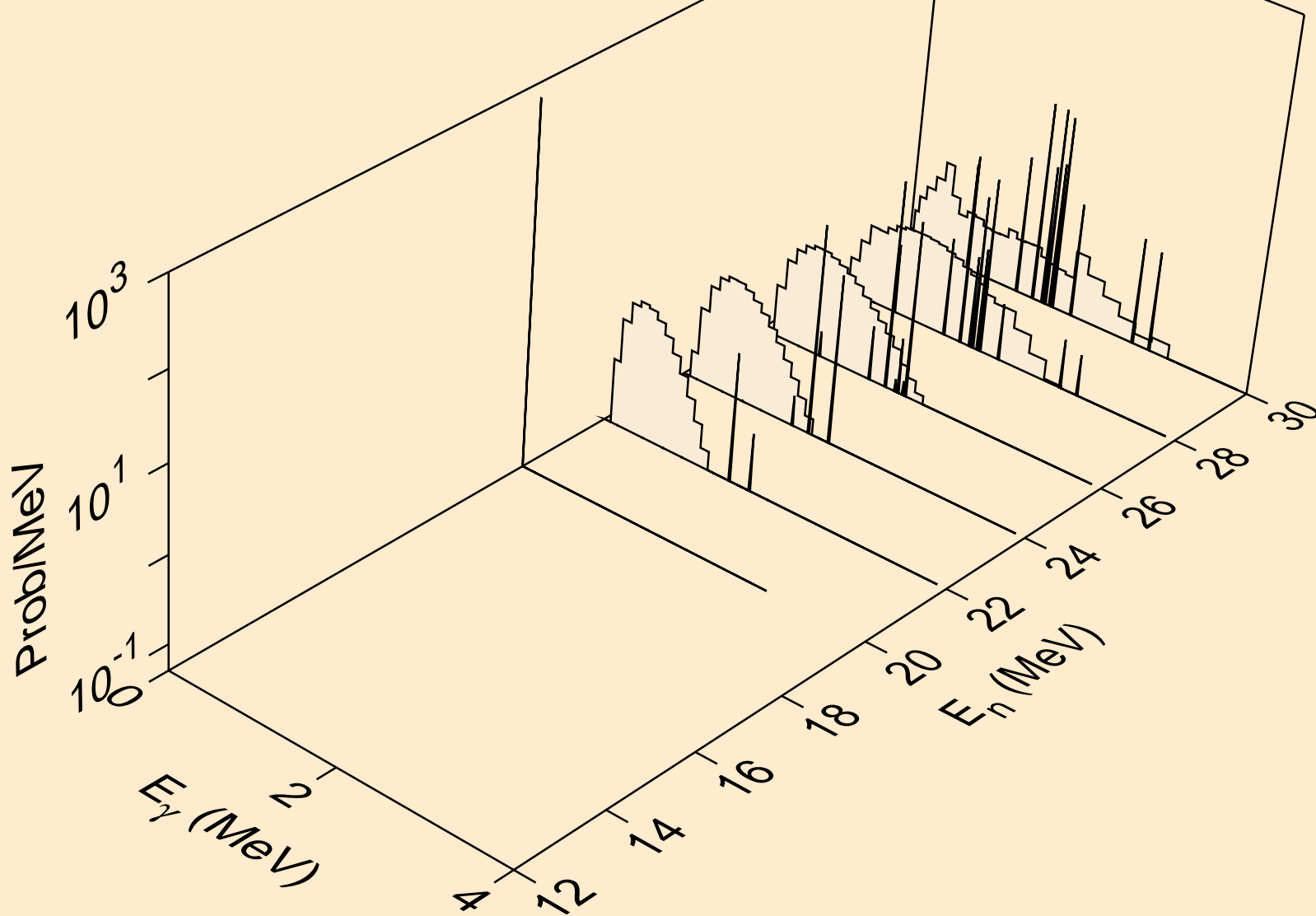


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Photon emission for (n,pt)



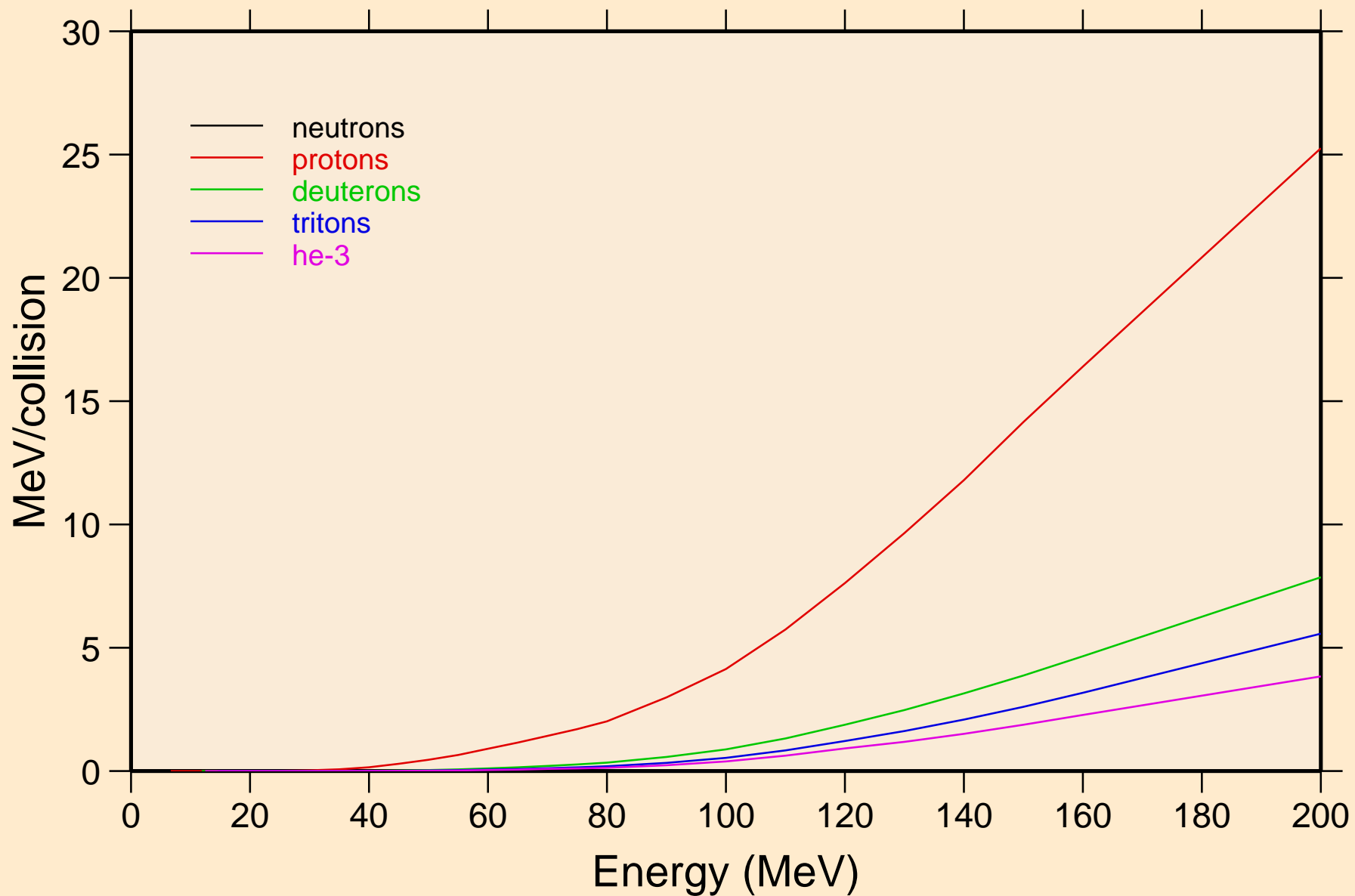


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Photon emission for (n,da)

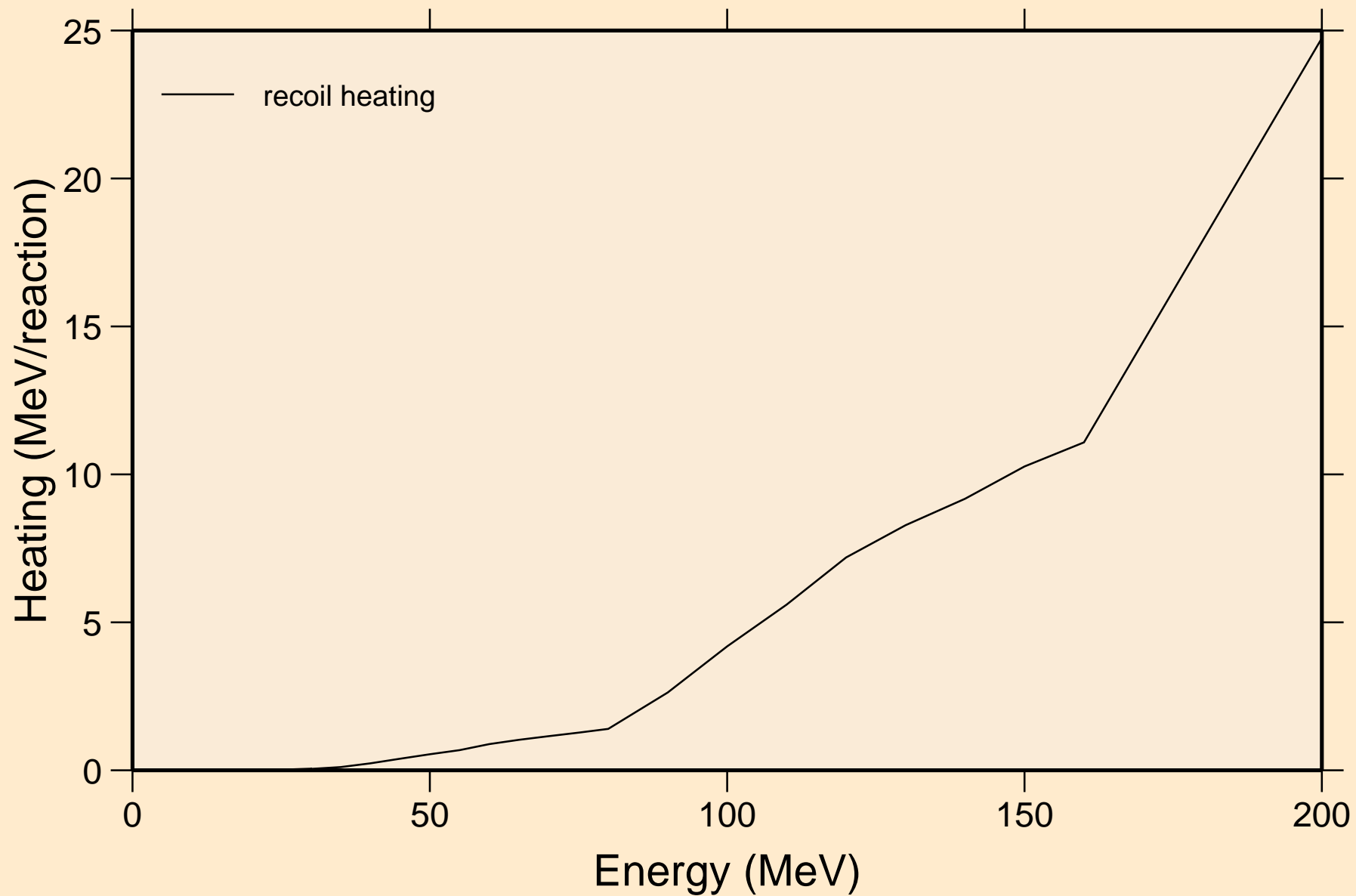


# ZR091 ALPHA ACER TENDL-2023 LIBRARY; T=0.K

## Particle heating contributions

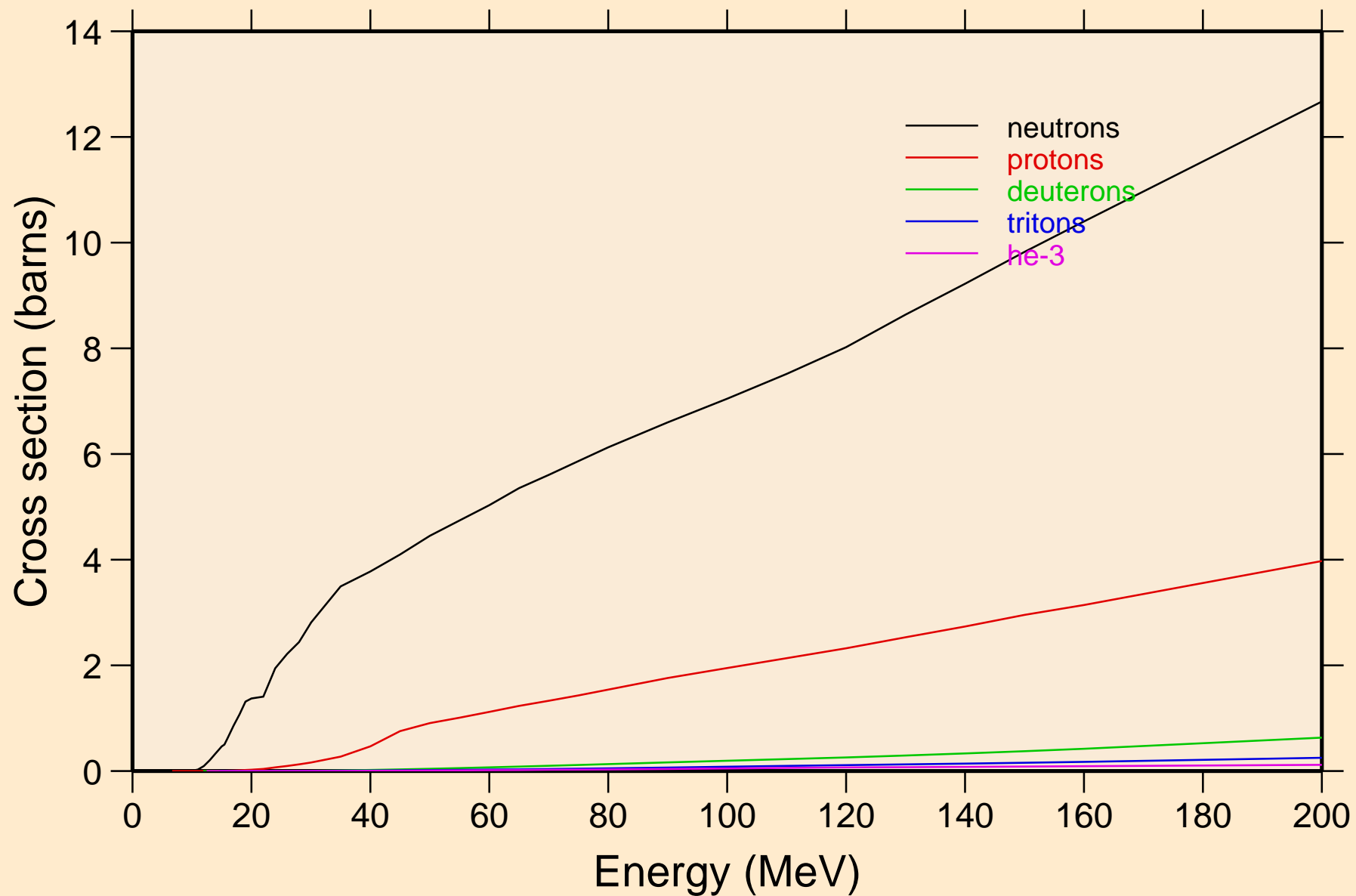


ZR091 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
Recoil Heating

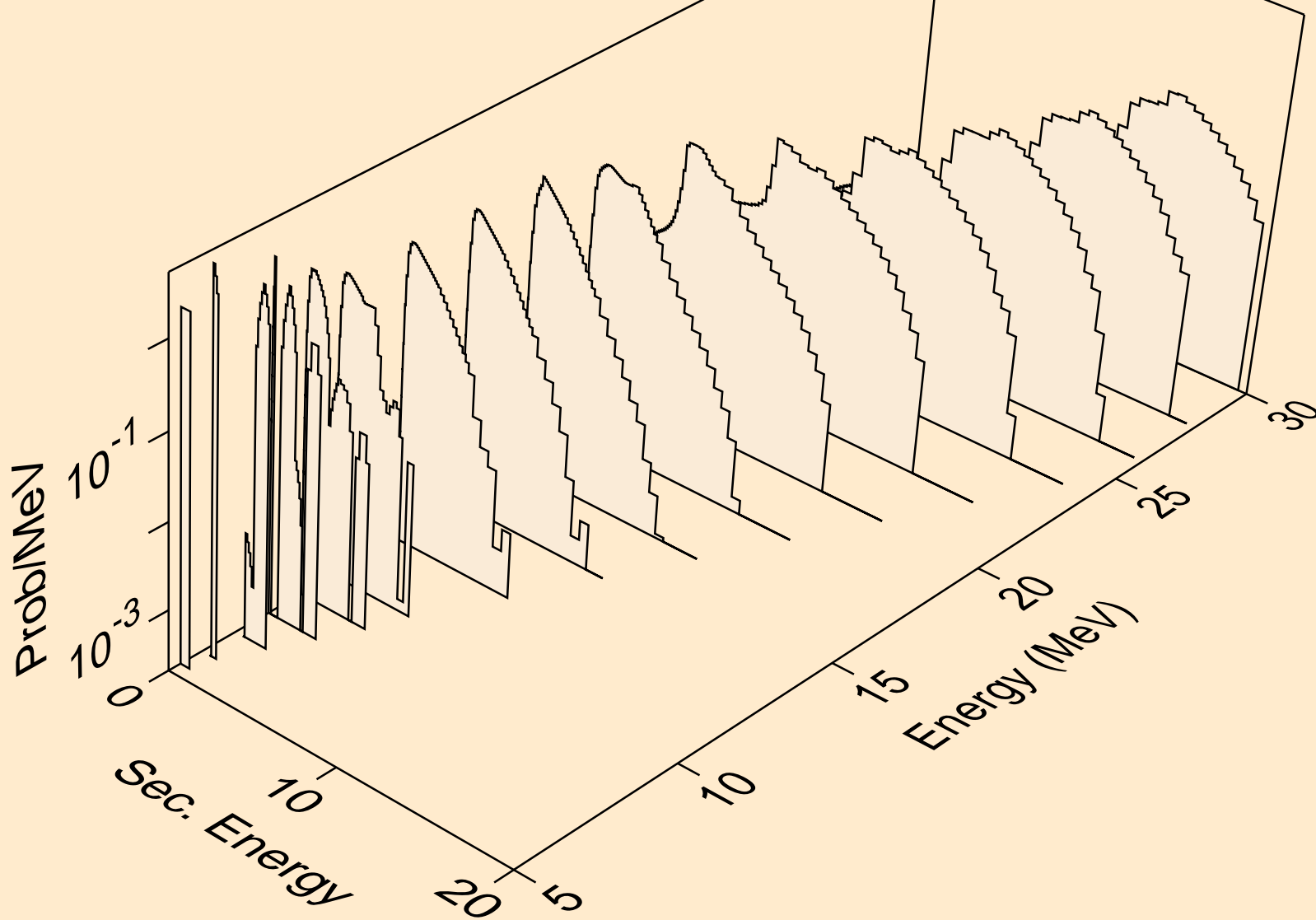


# ZR091 ALPHA ACER TENDL-2023 LIBRARY; T=0.K

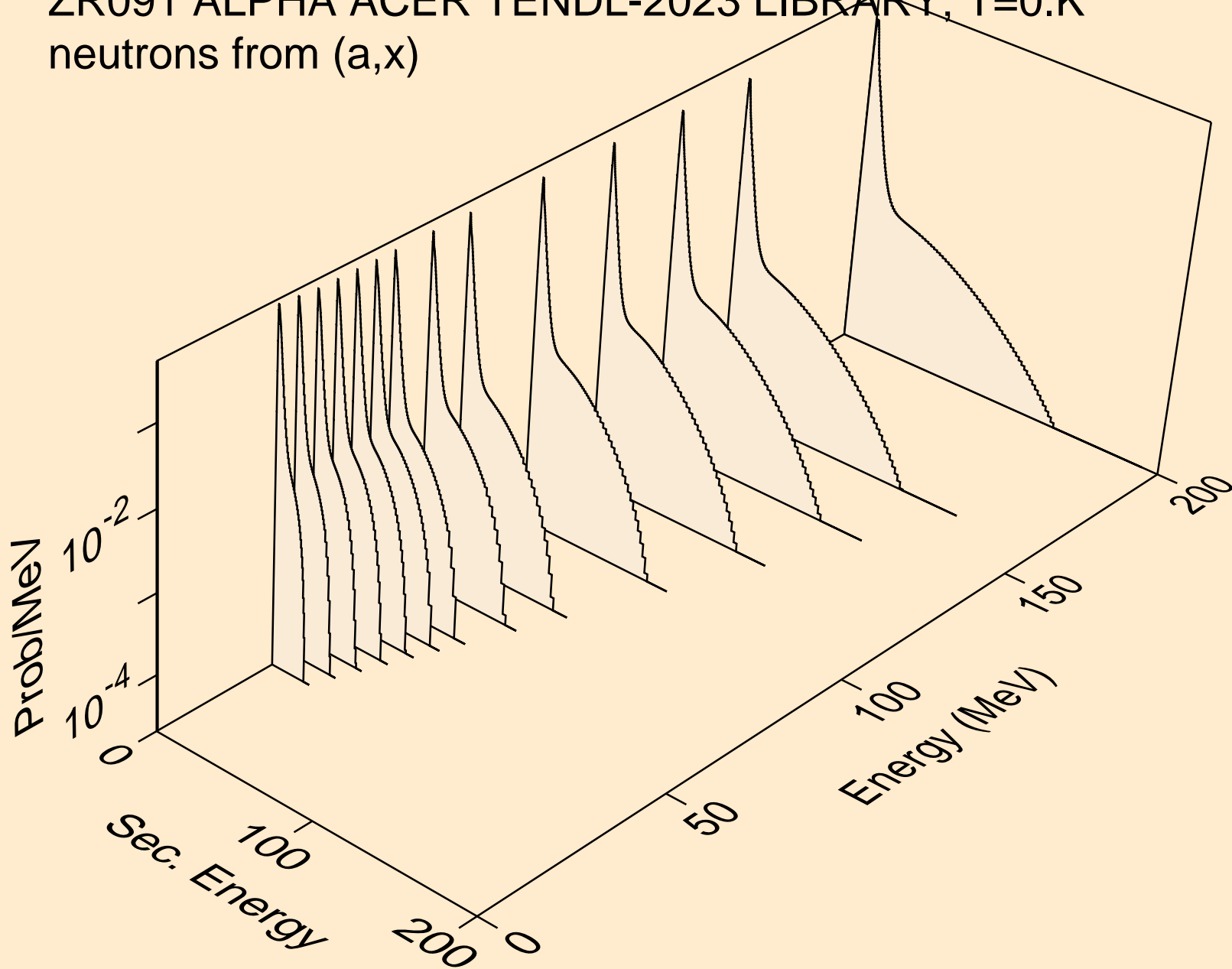
## Particle production cross sections



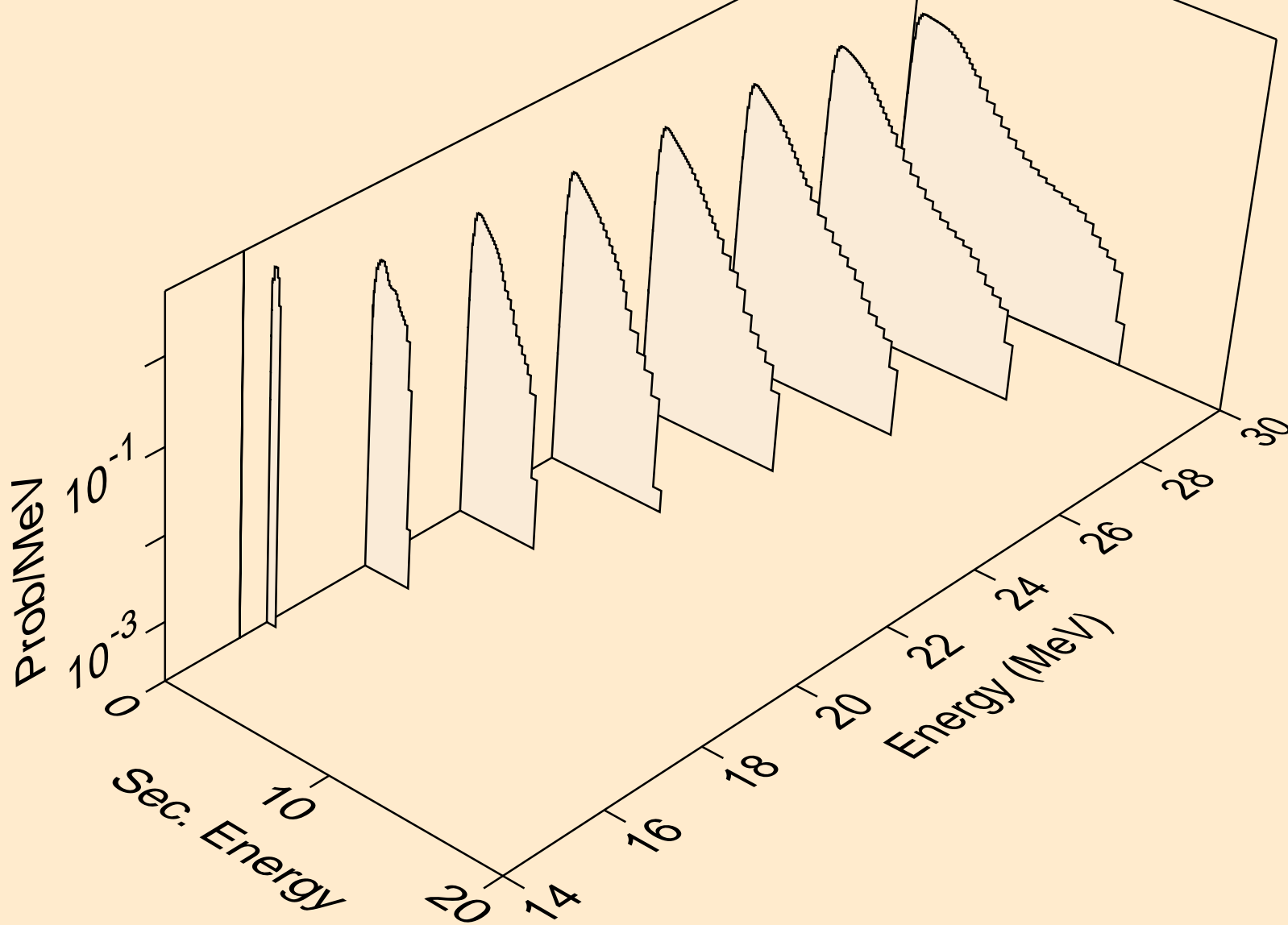
ZR091 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (a,n)



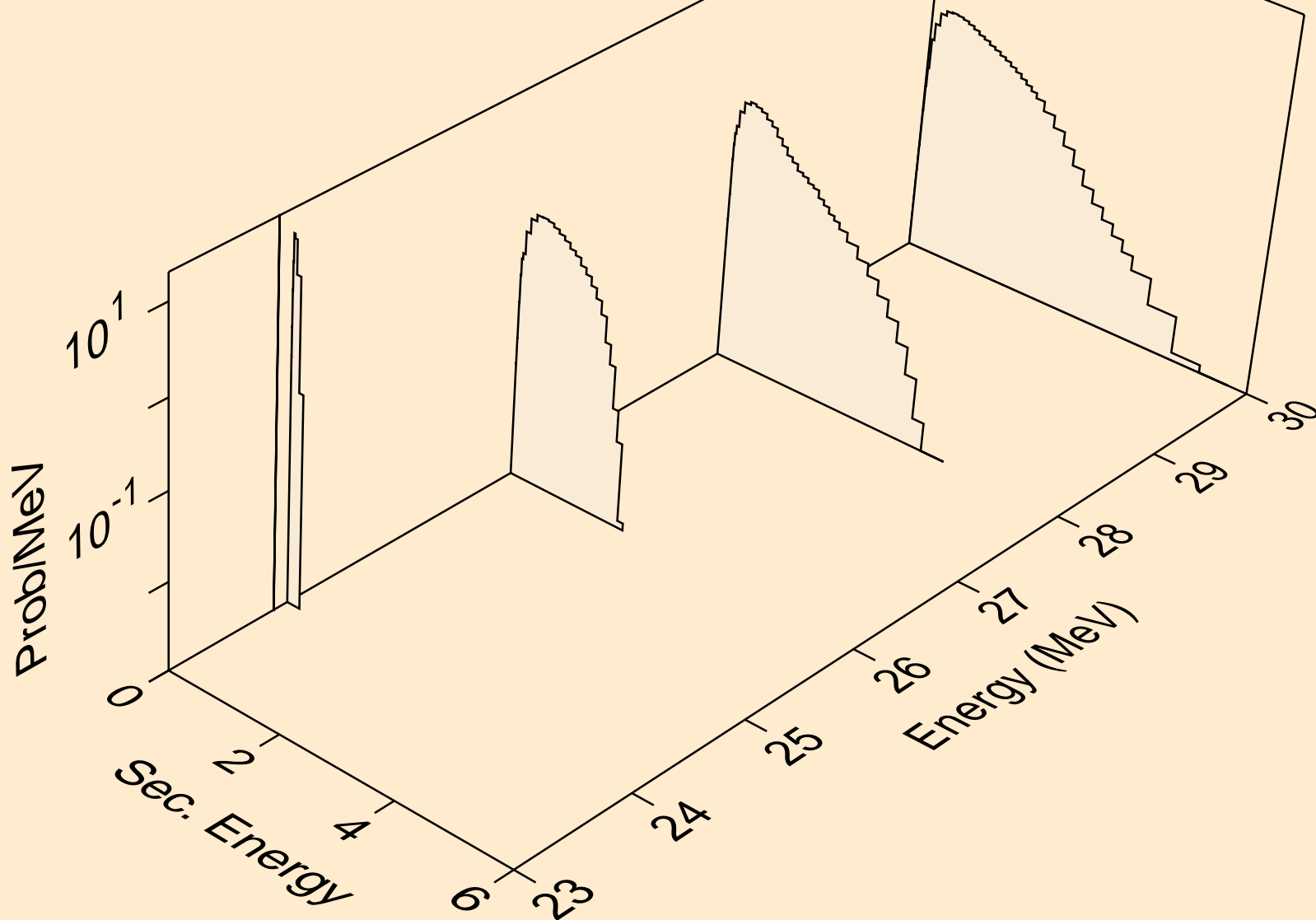
ZR091 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (a,x)



ZR091 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (a,2n)

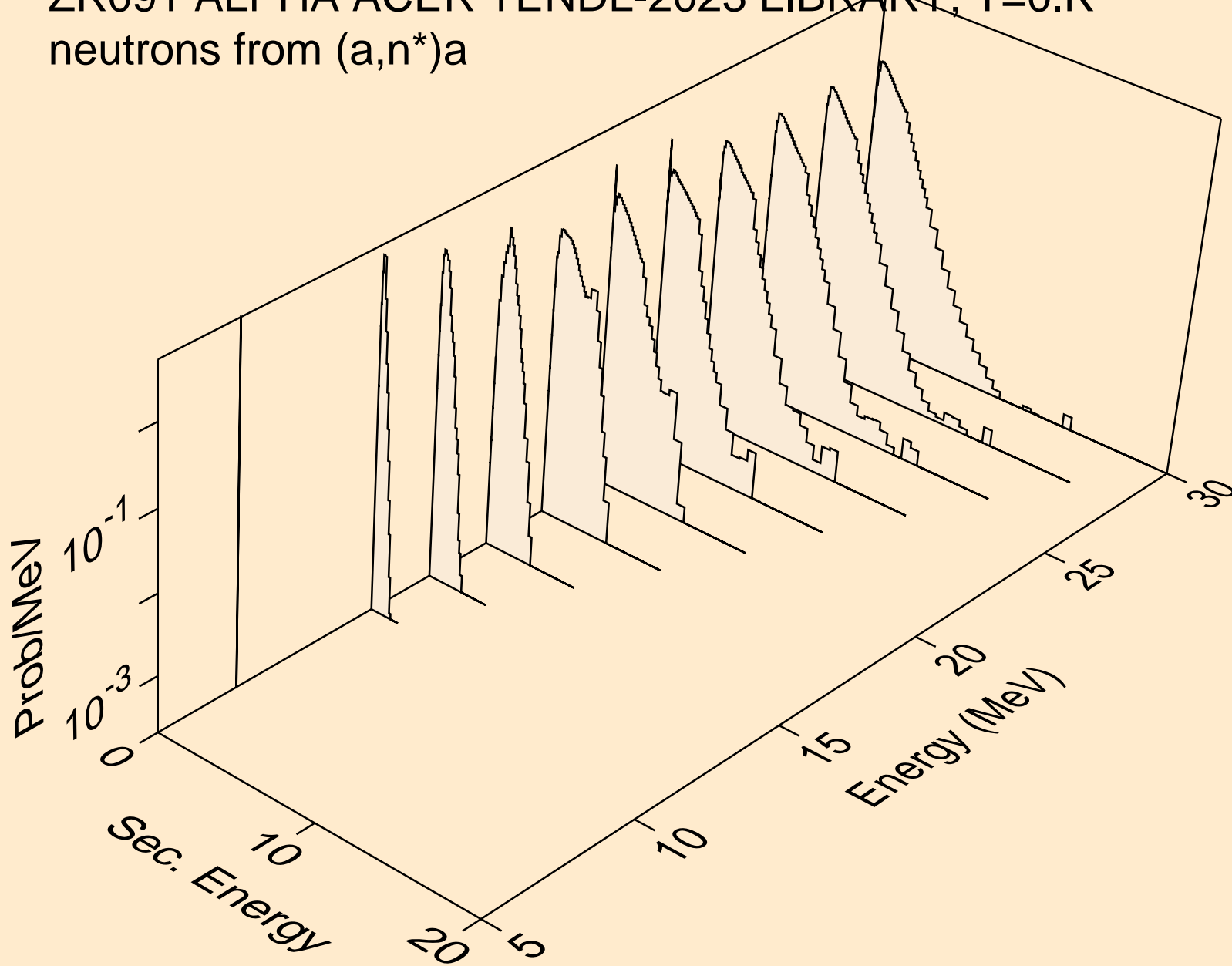


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neutrons from (a,3n)

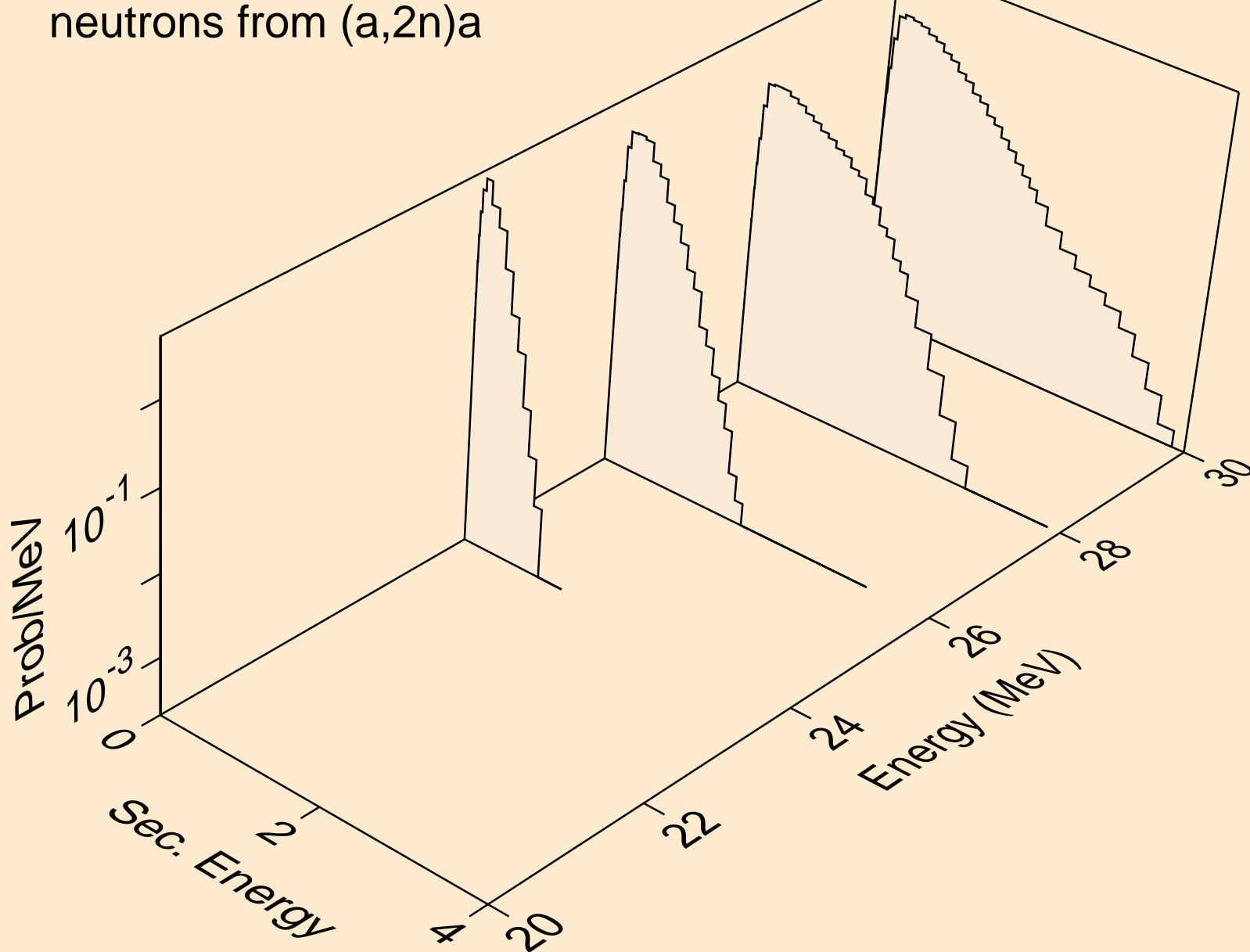




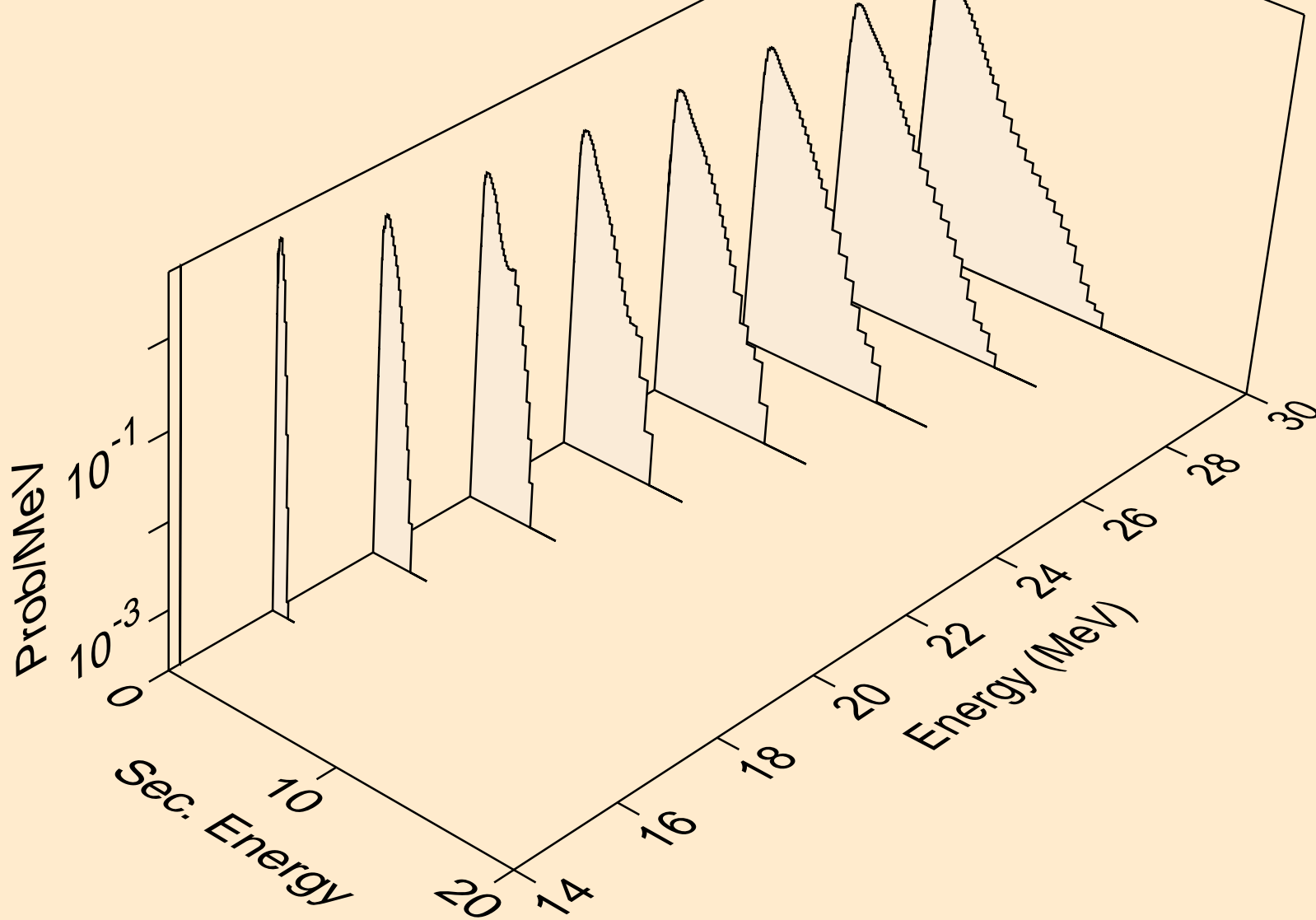
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neutrons from (a,n\*)a



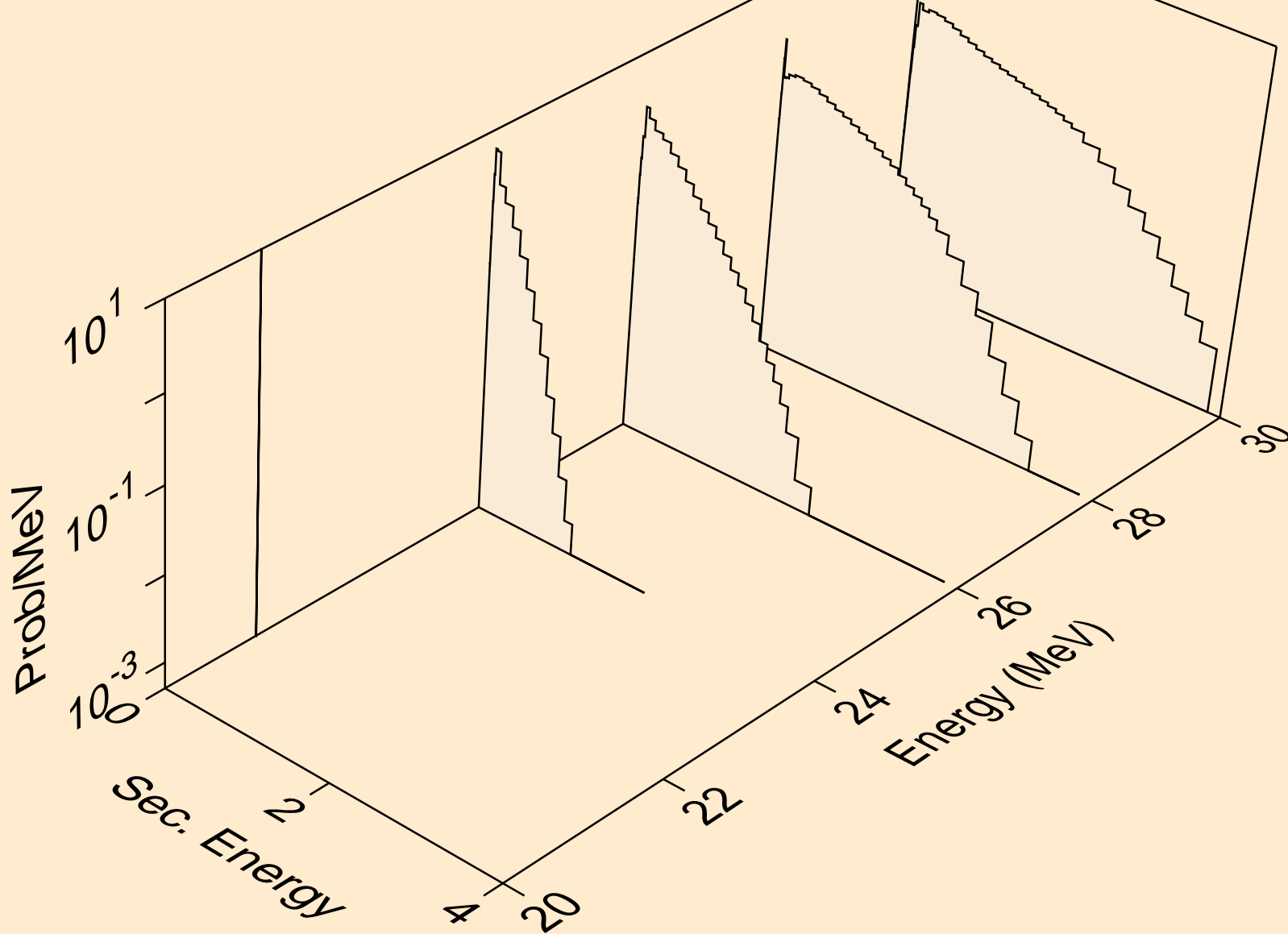
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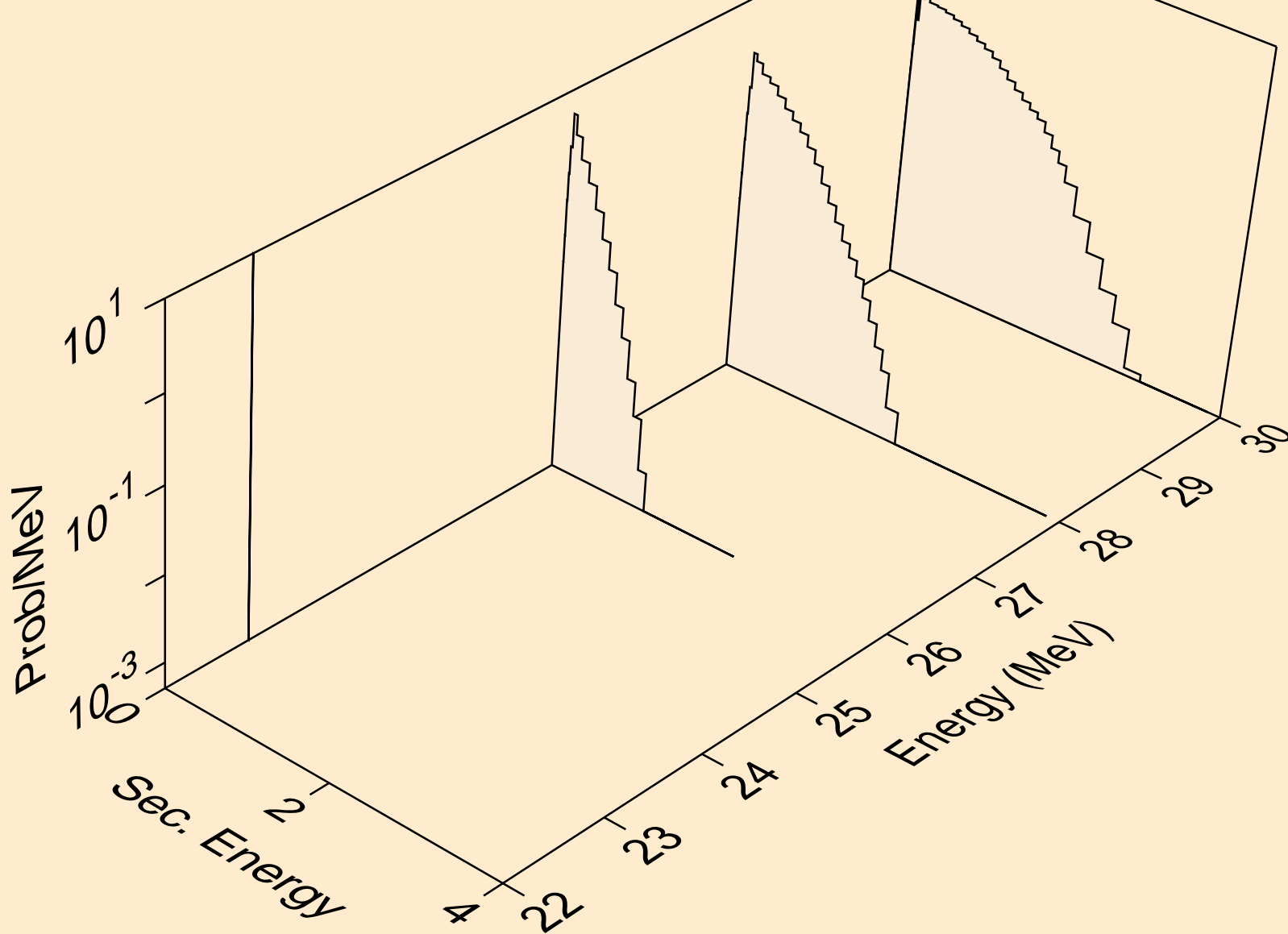
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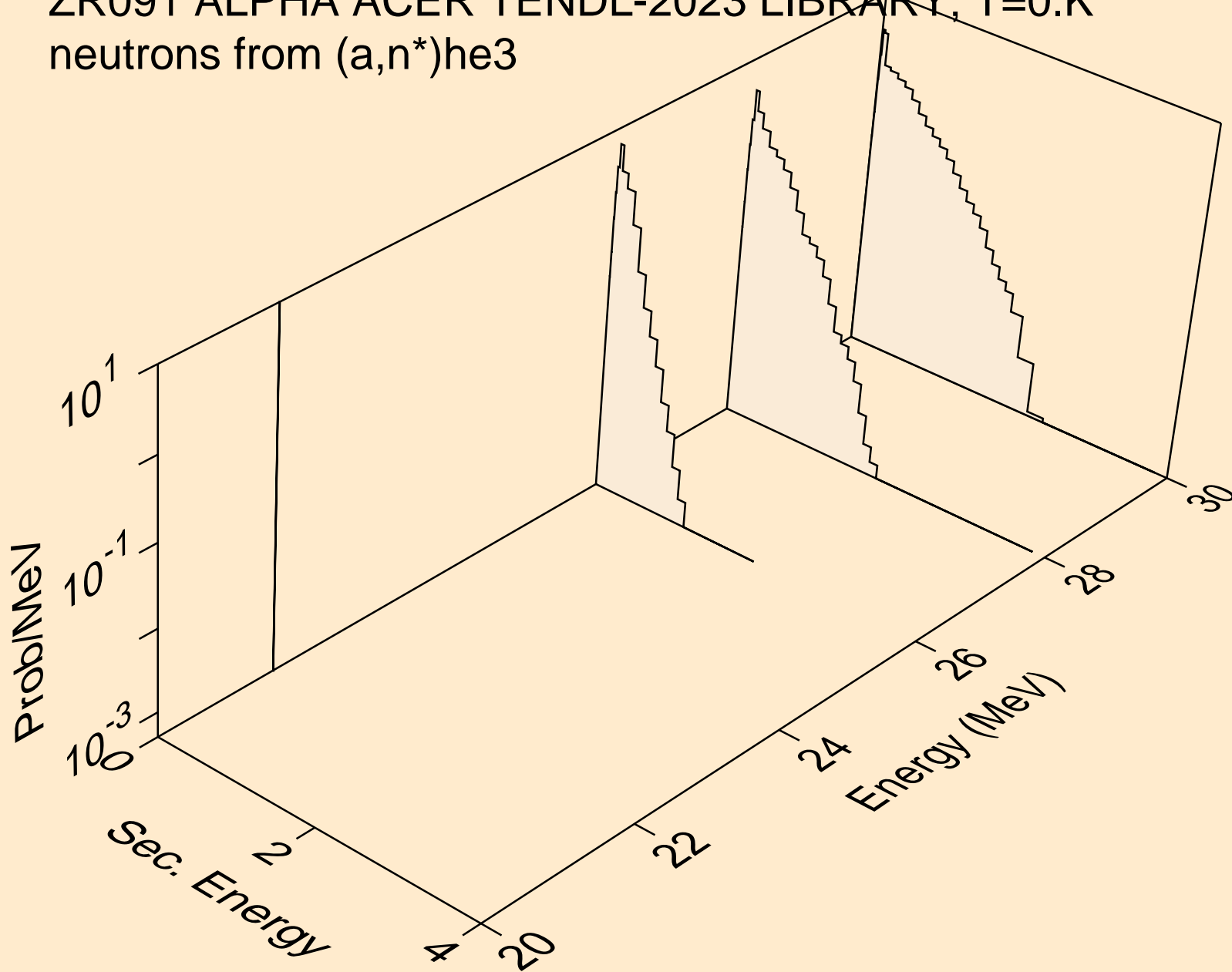
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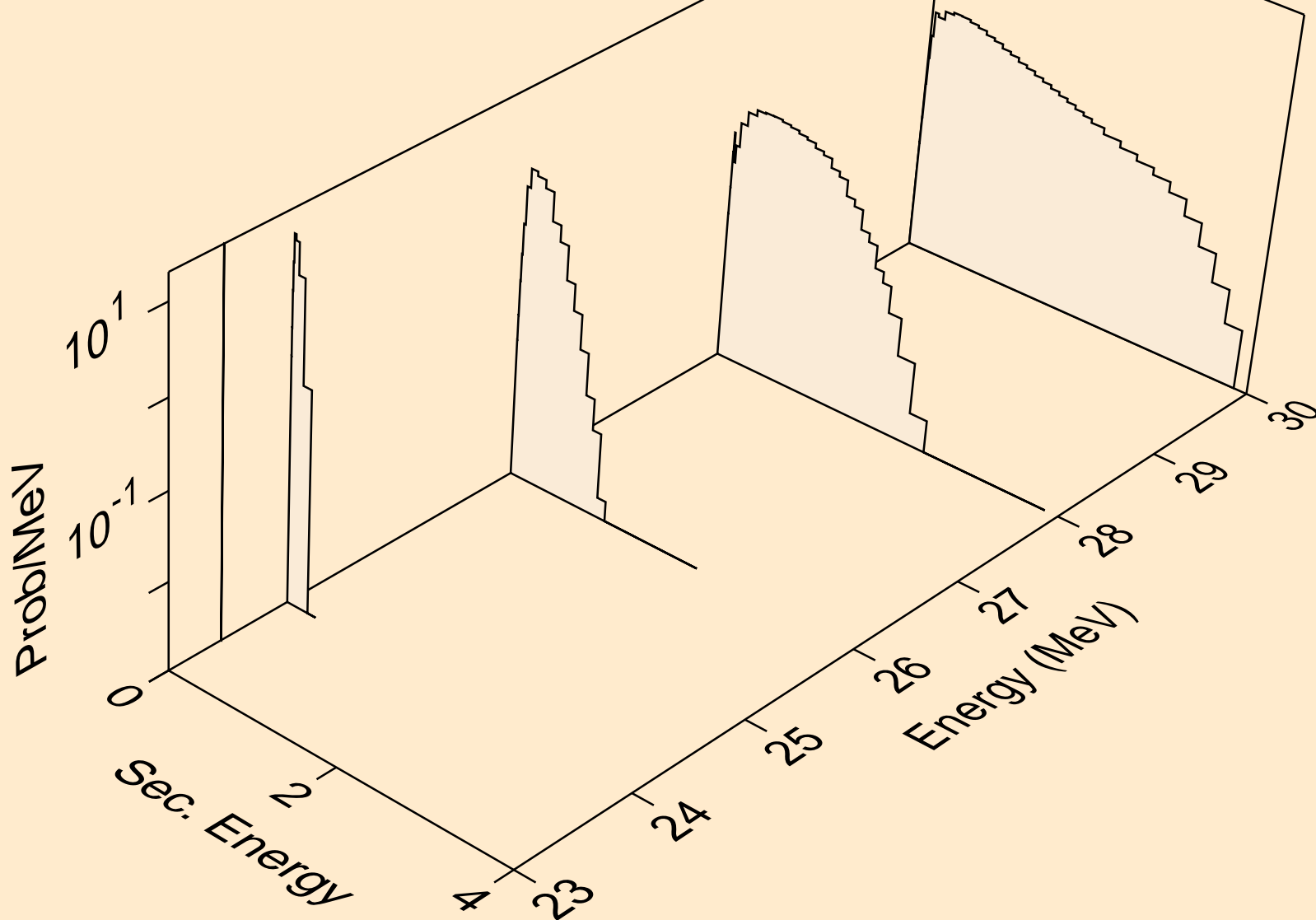
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neutrons from (a,n\*)t



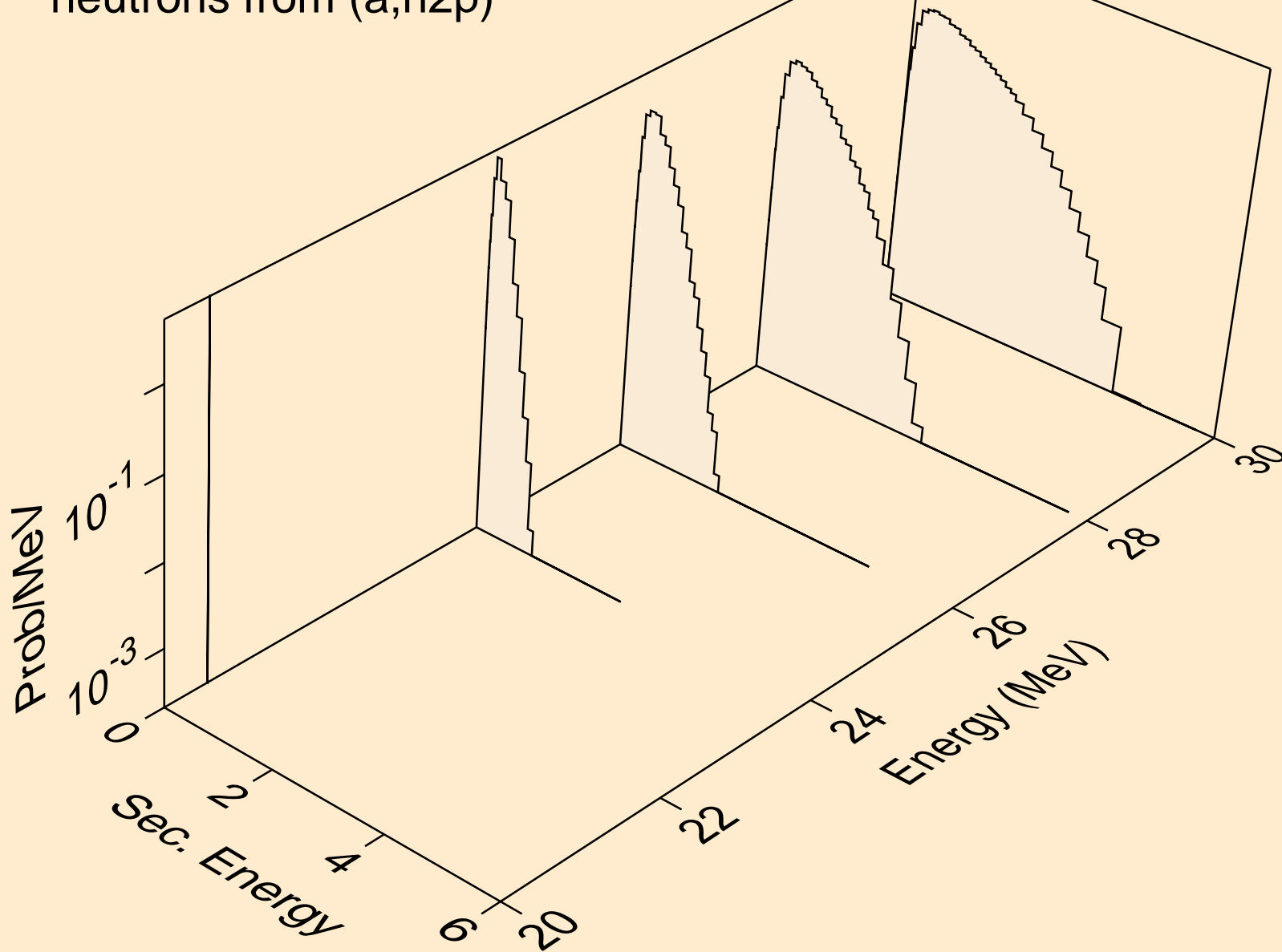
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neutrons from (a,n\*)he3



ZR091 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (a,2np)

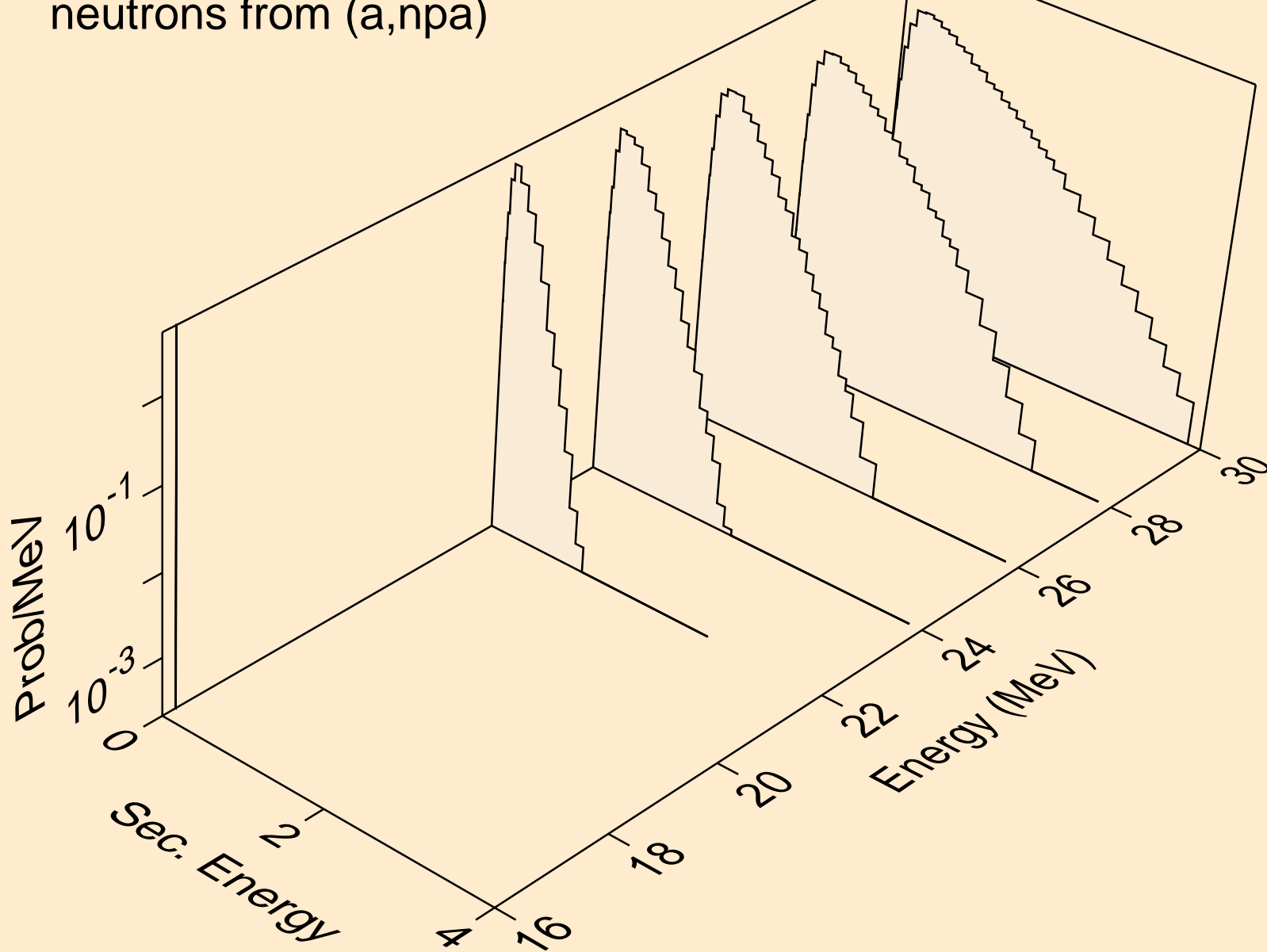


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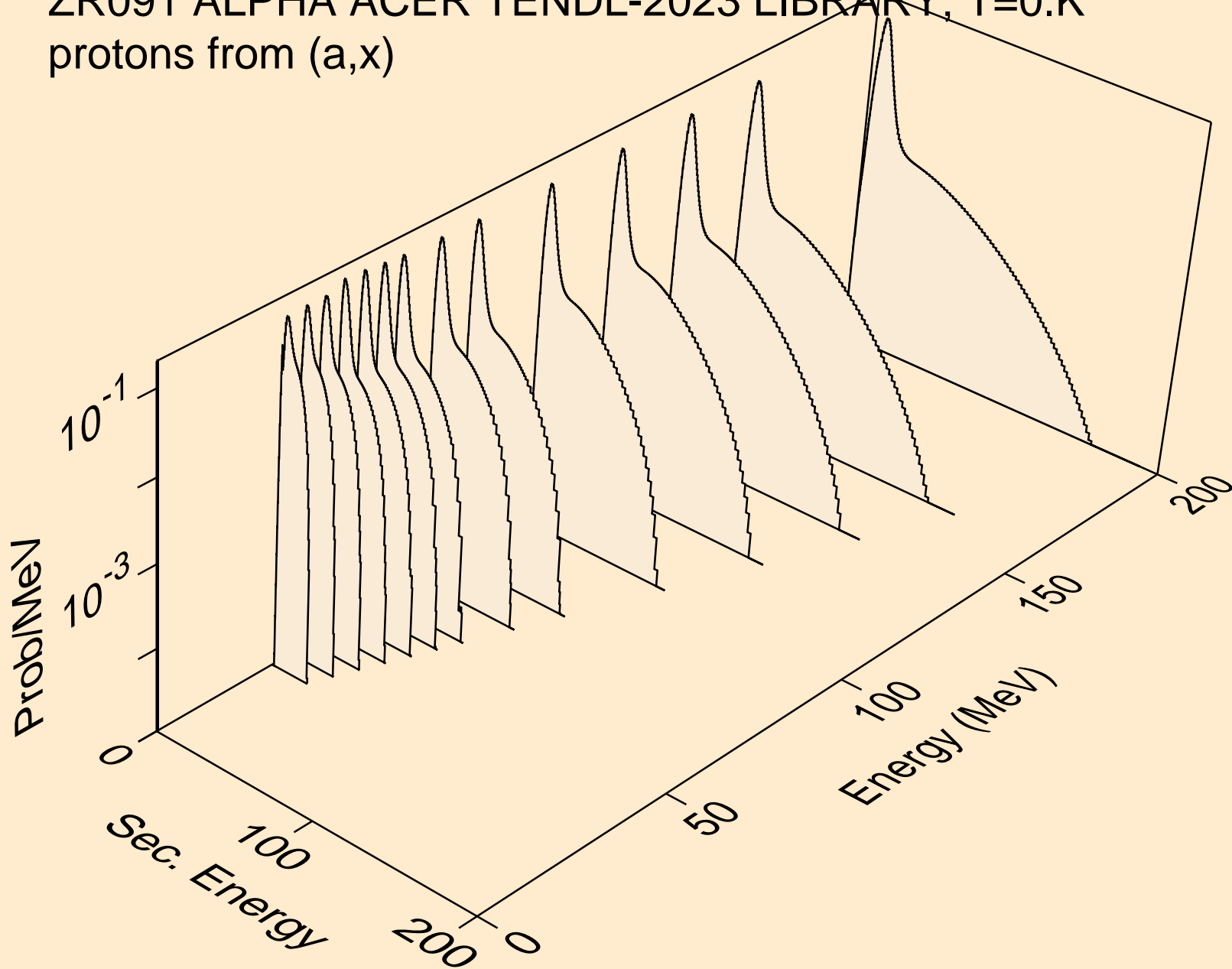




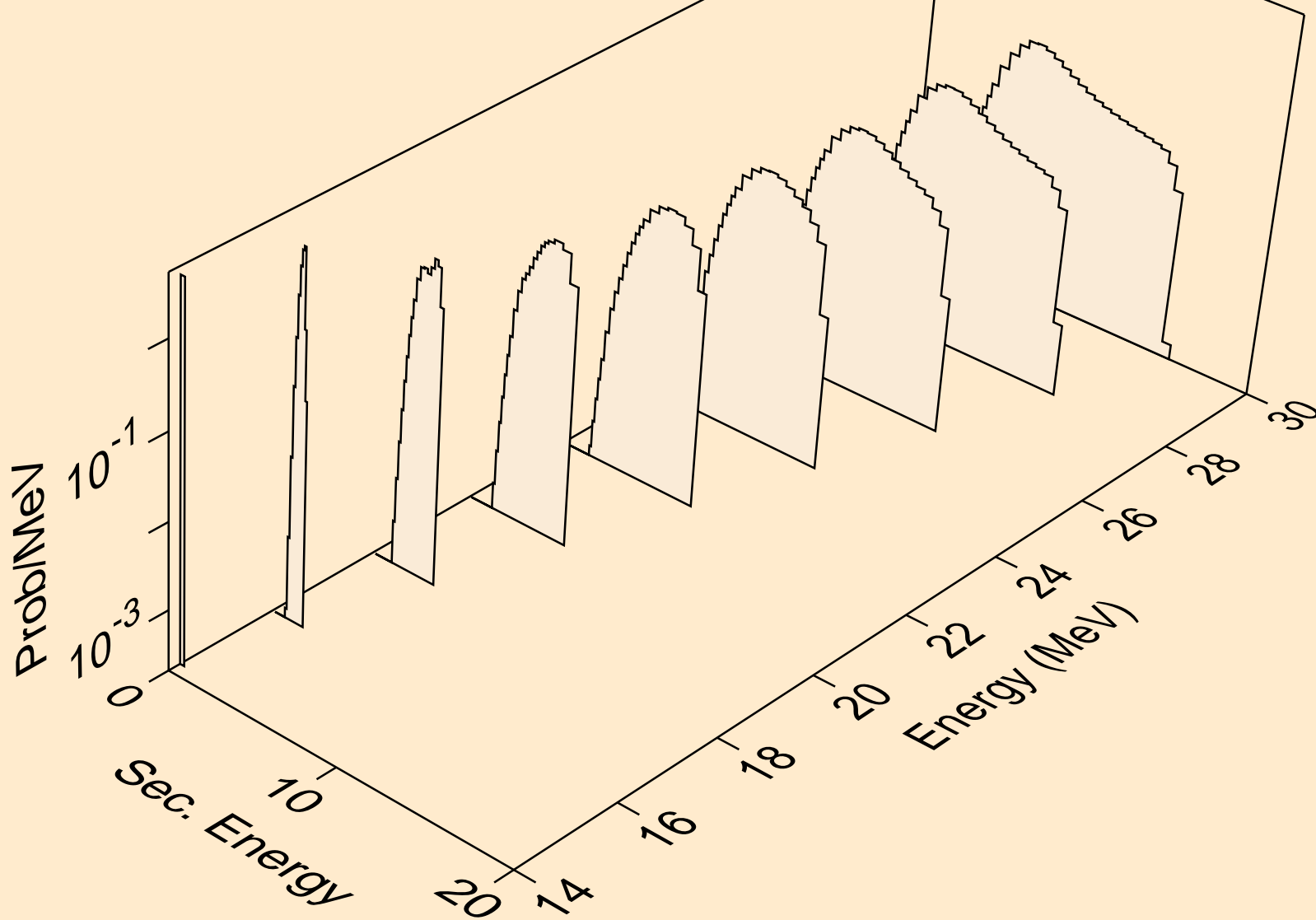
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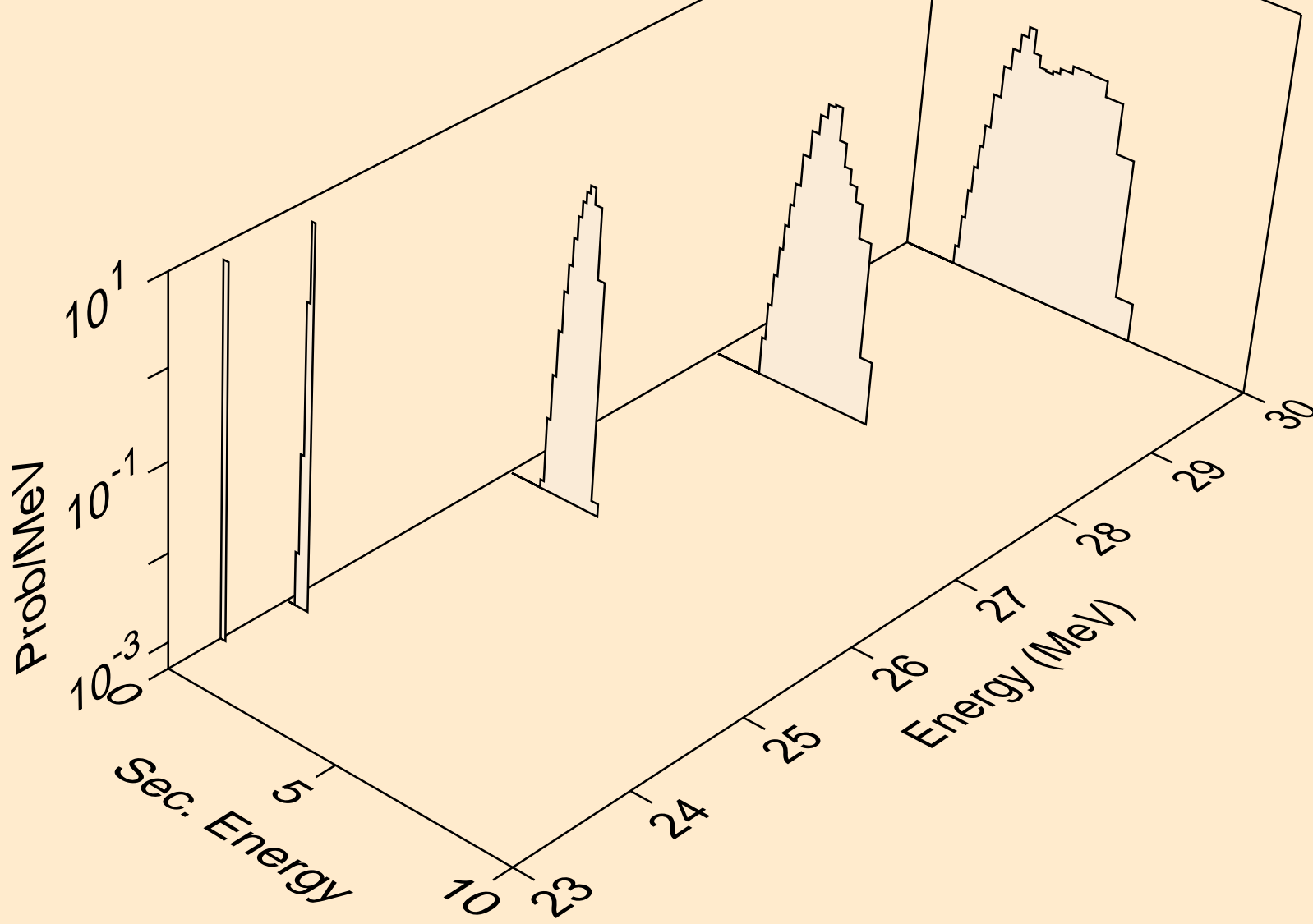
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protons from (a,x)



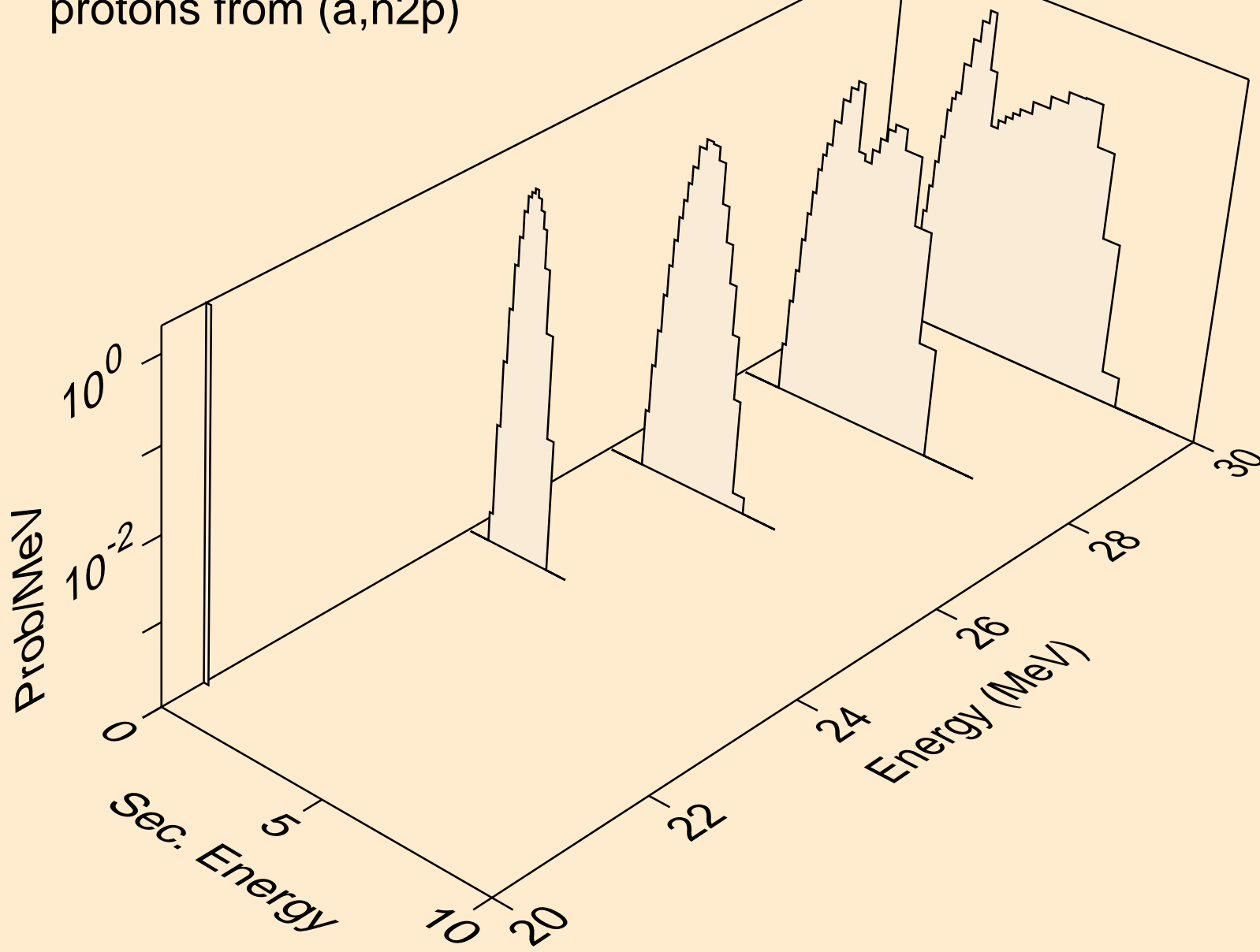
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protons from (a,n\*)p



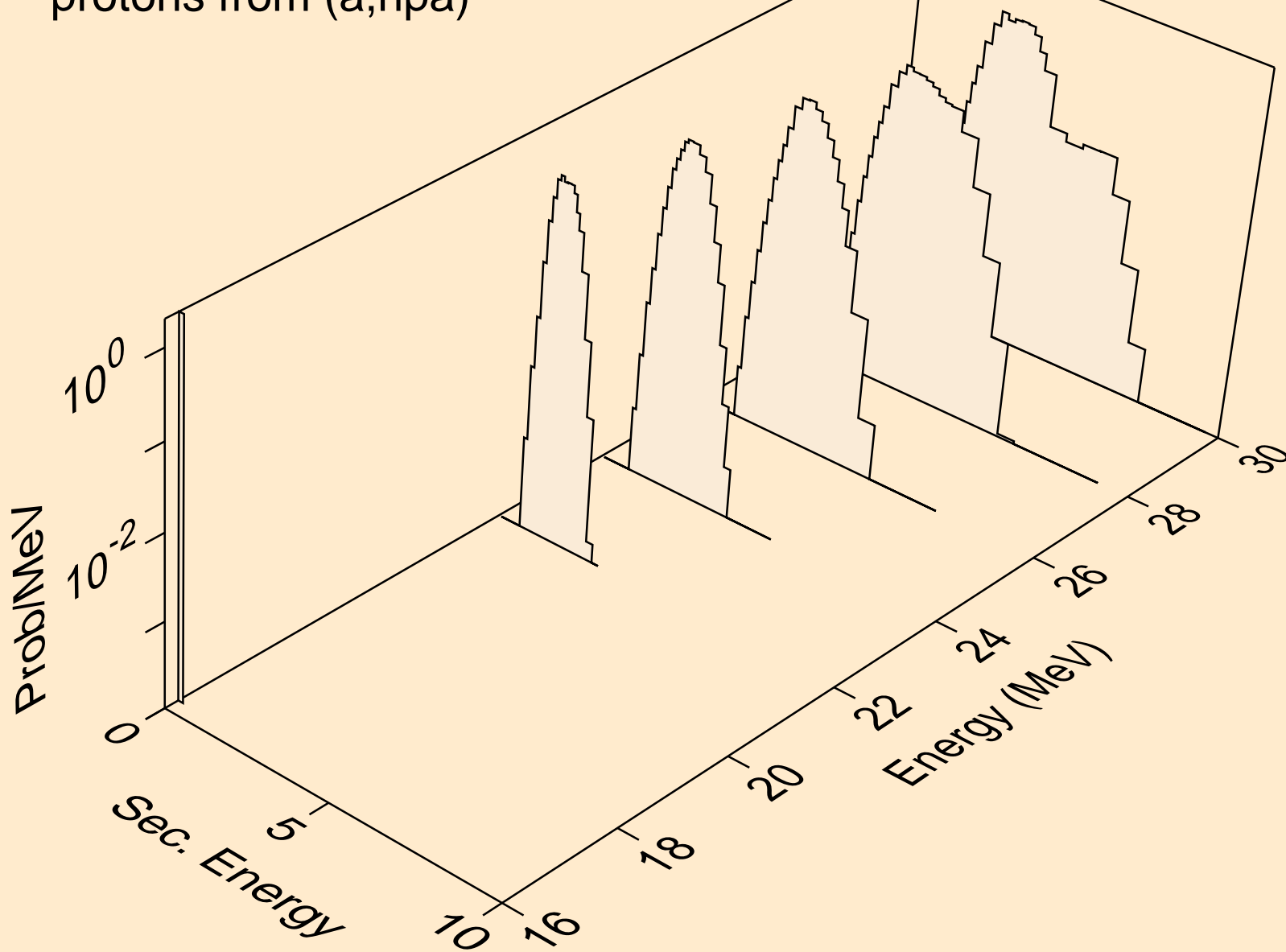
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protons from (a,2np)



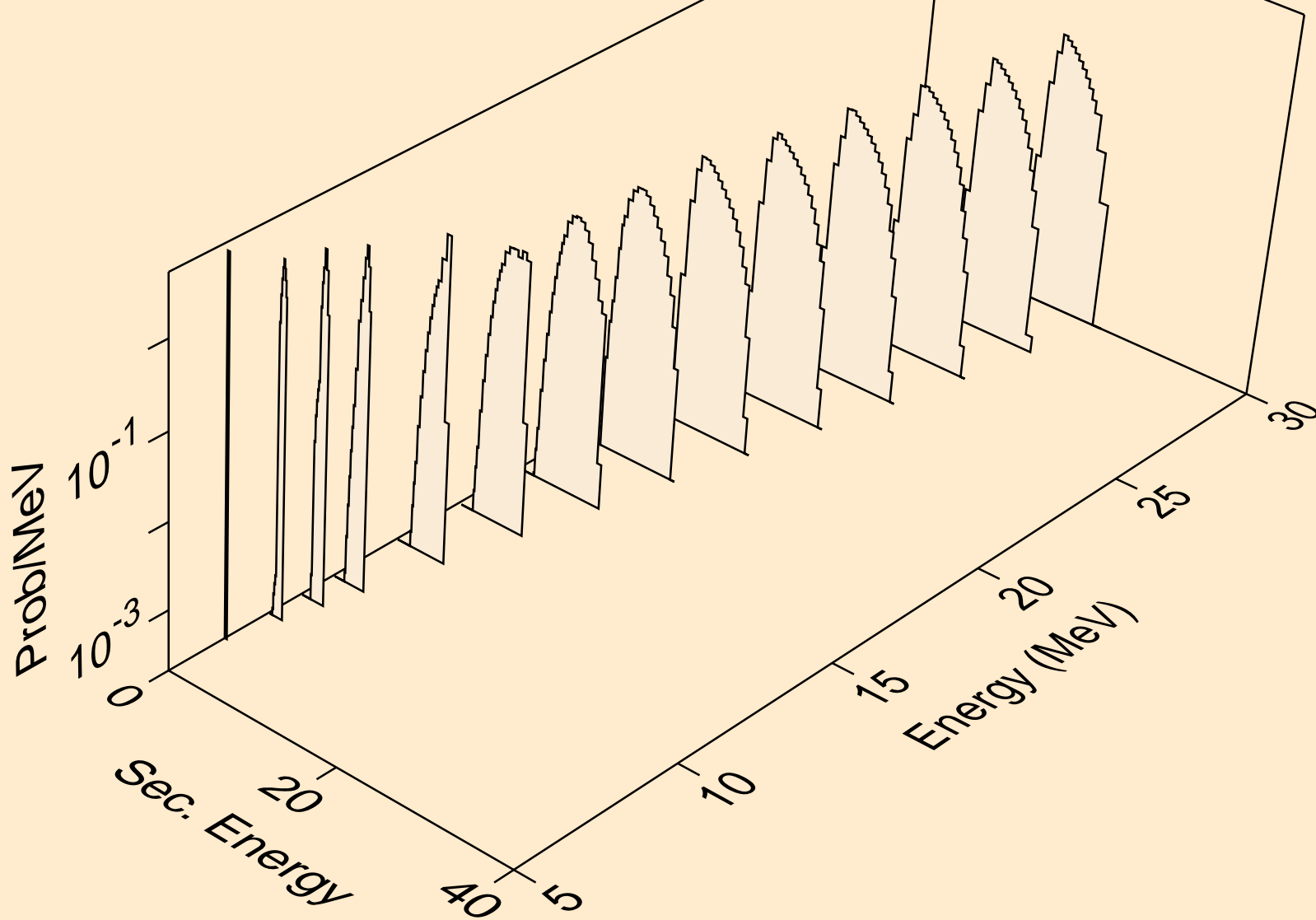
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protons from (a,n2p)



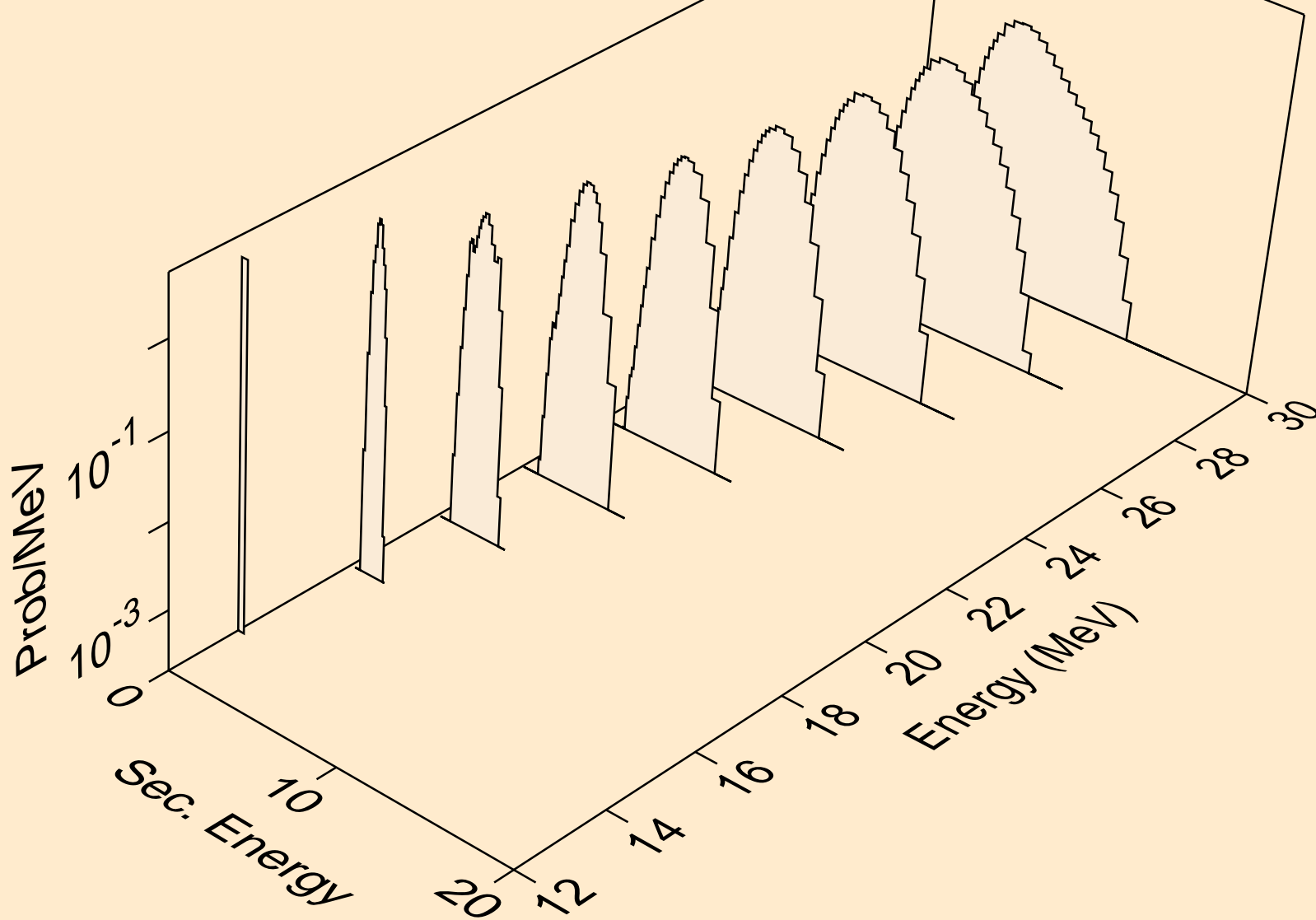
ZR091 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
protons from (a,npa)



ZR091 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
protons from (a,p)

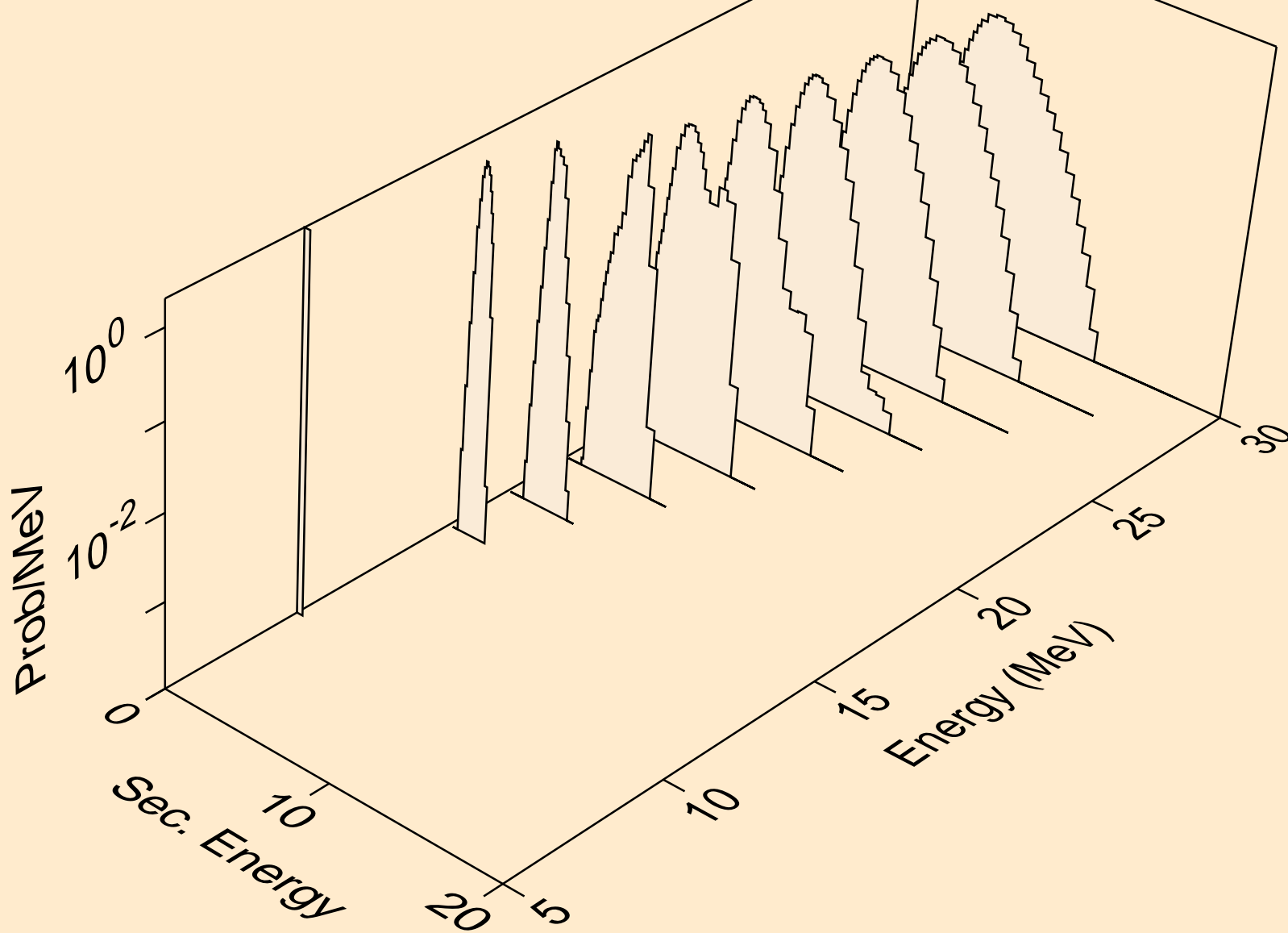


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protons from (a,2p)

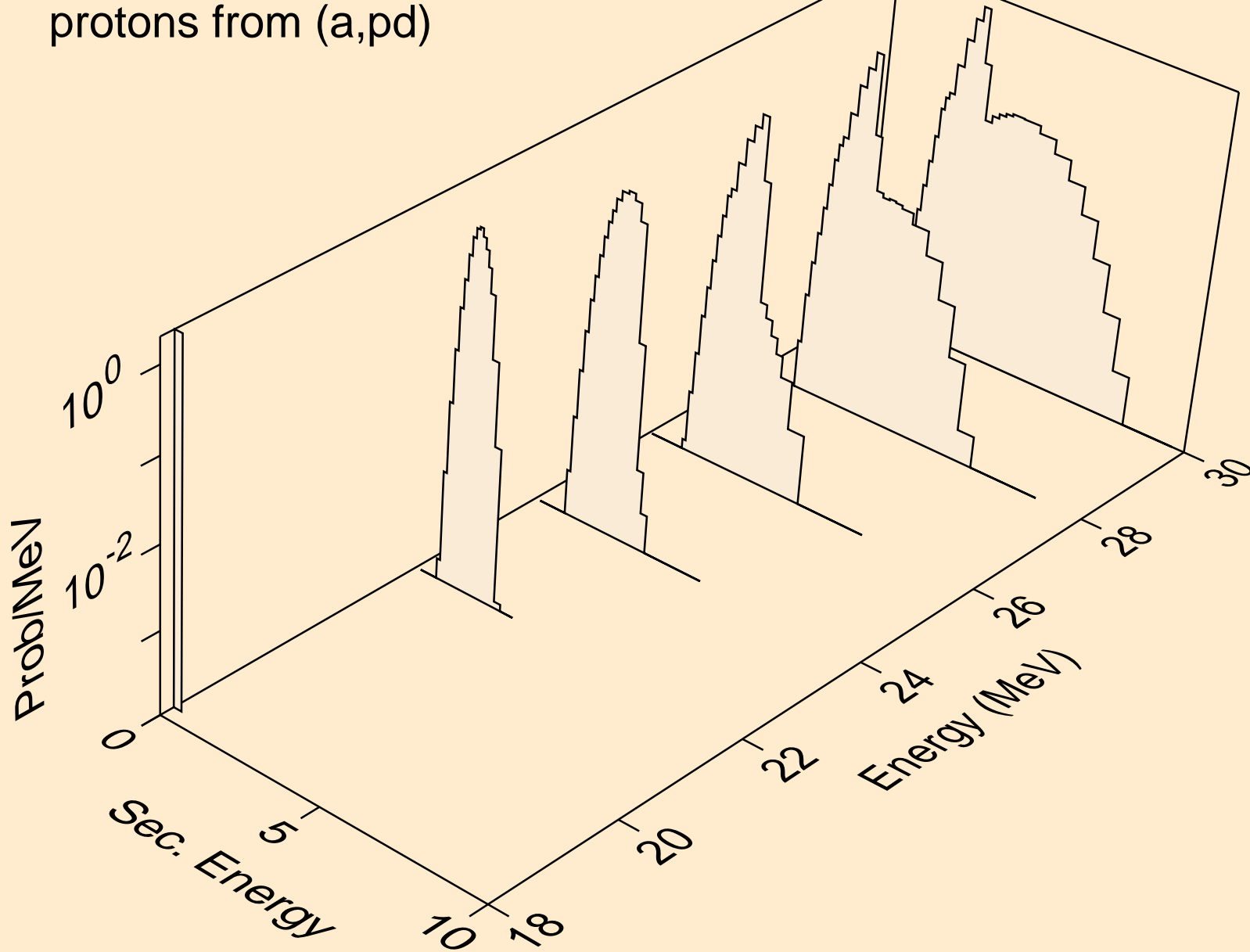




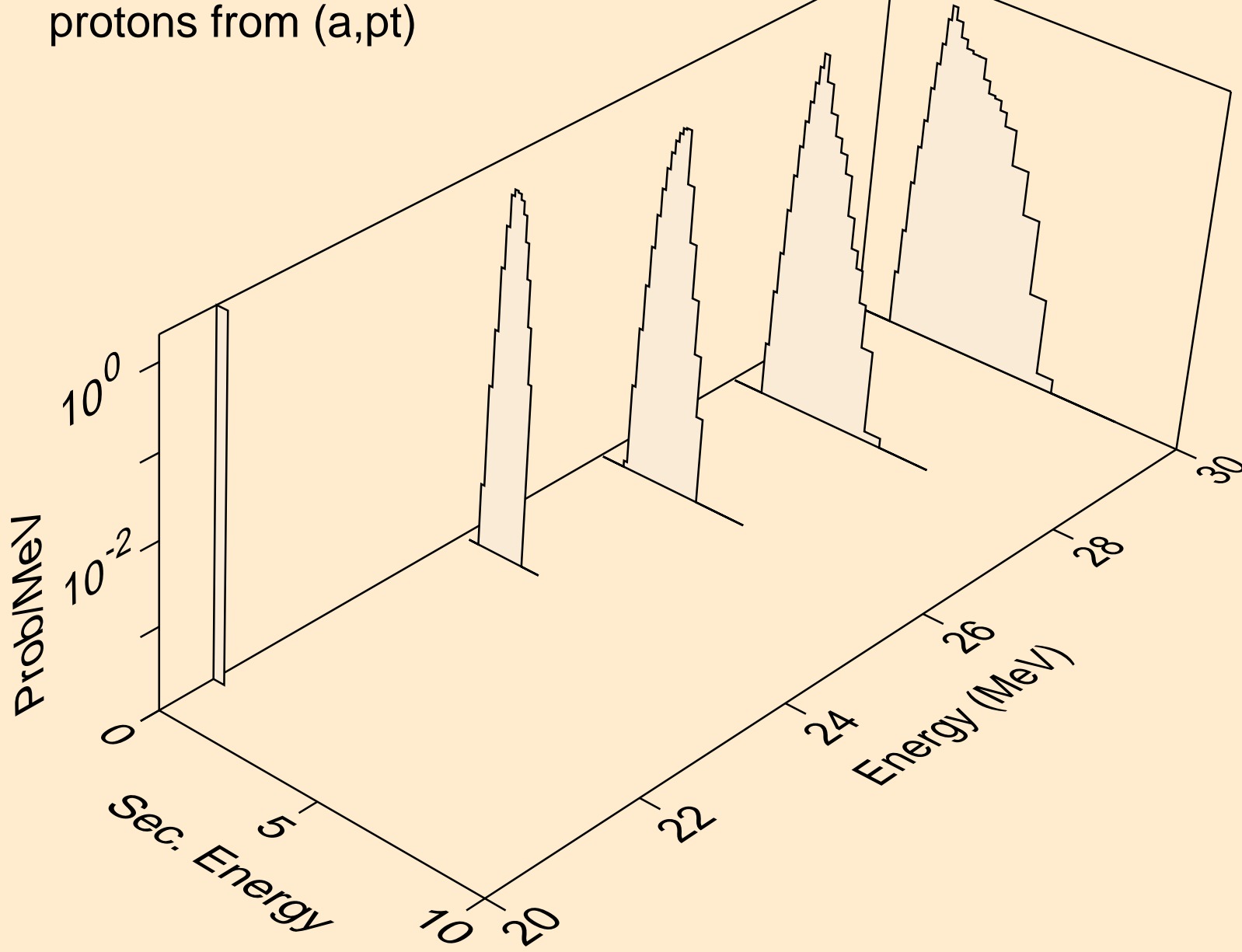
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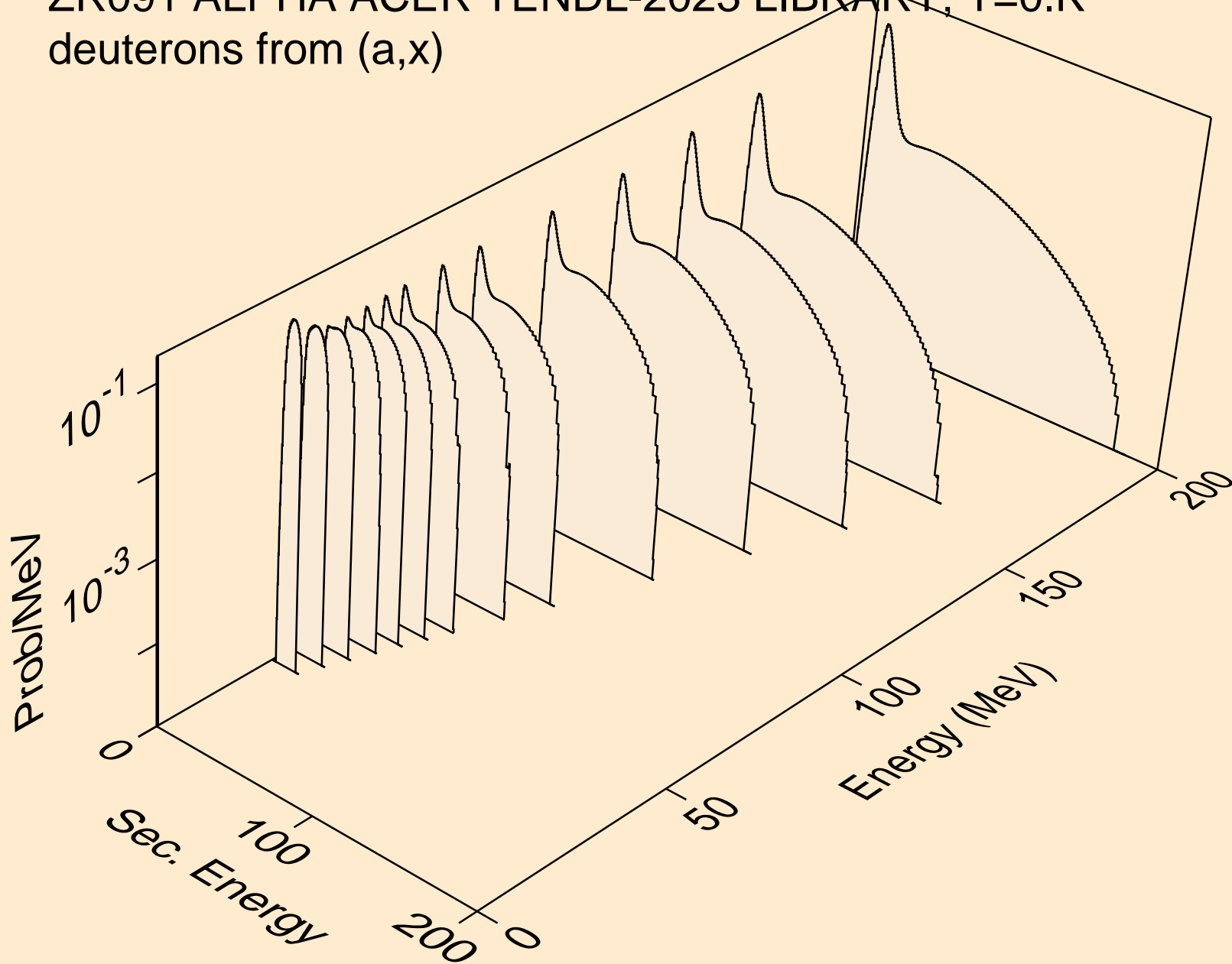
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protons from (a,pd)



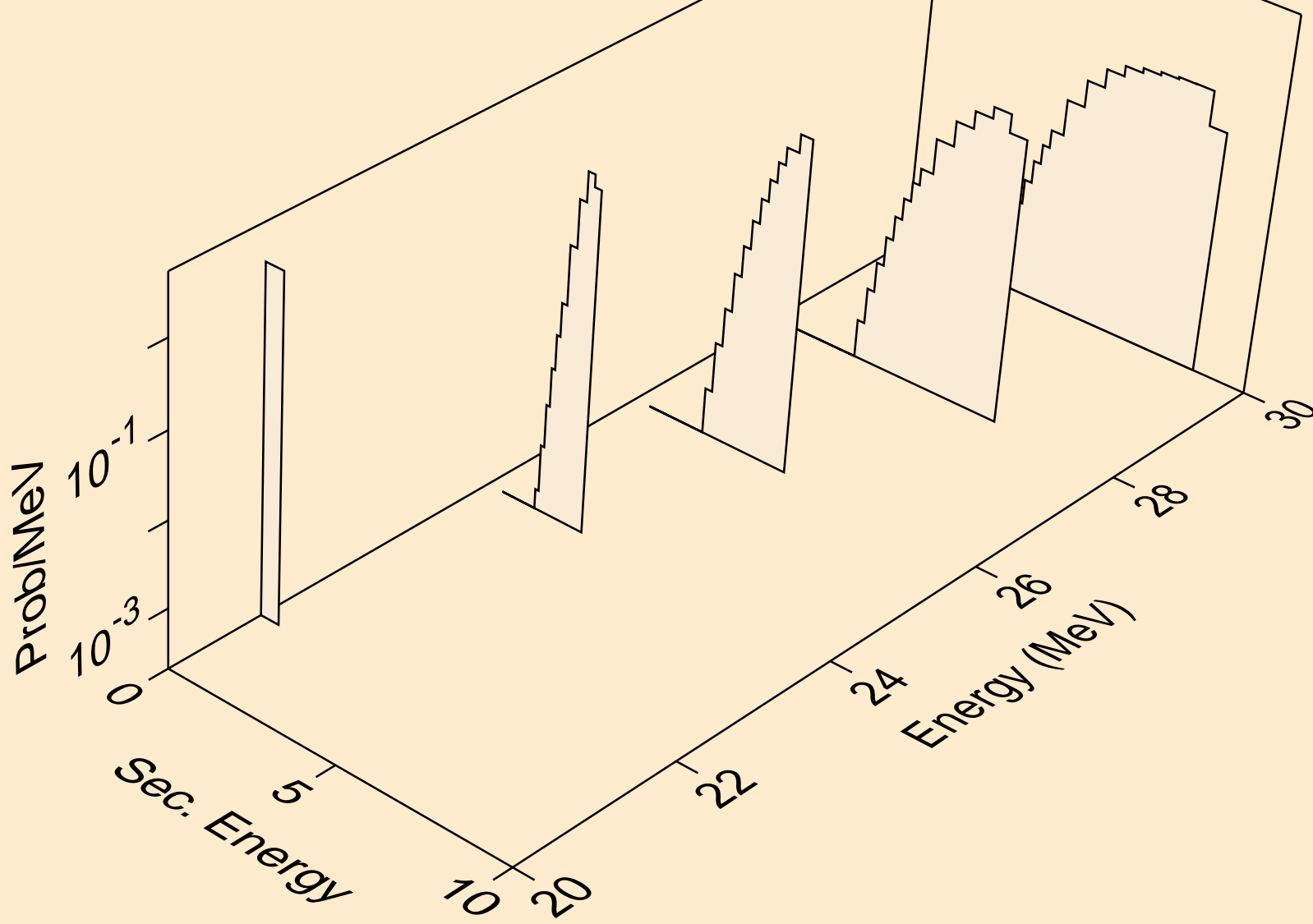
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protons from (a,pt)



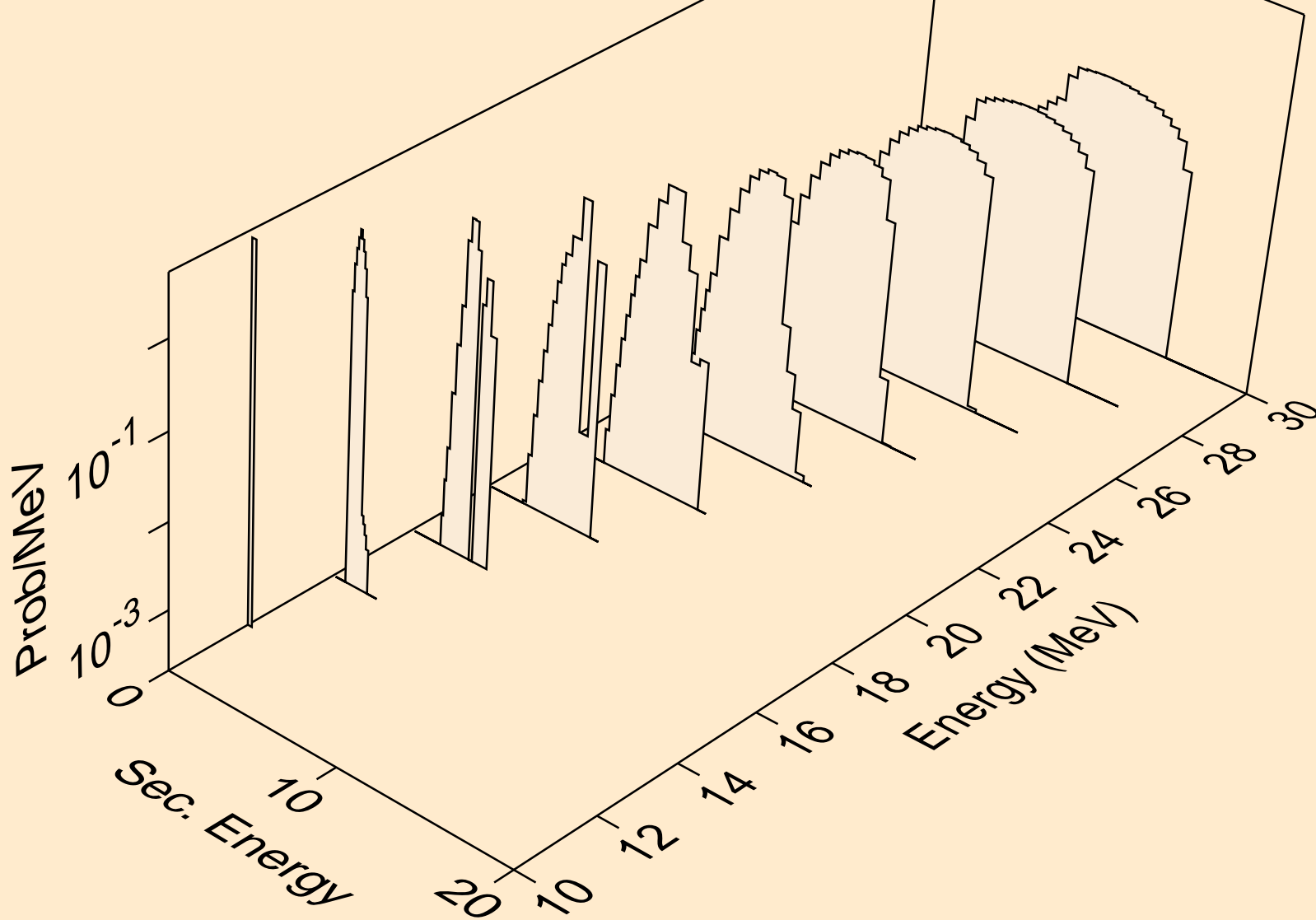
ZR091 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
deuterons from (a,x)



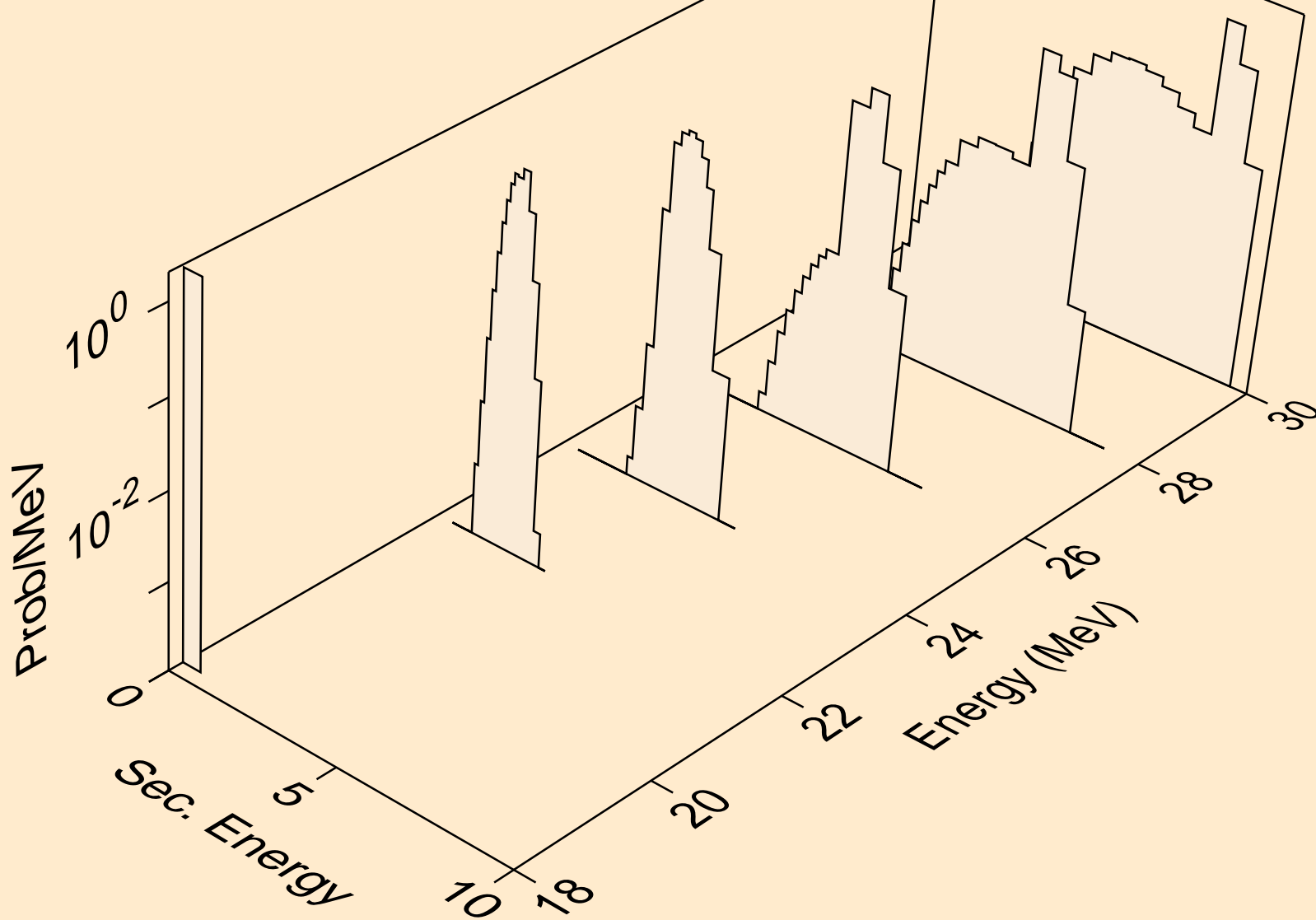
ZR091 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
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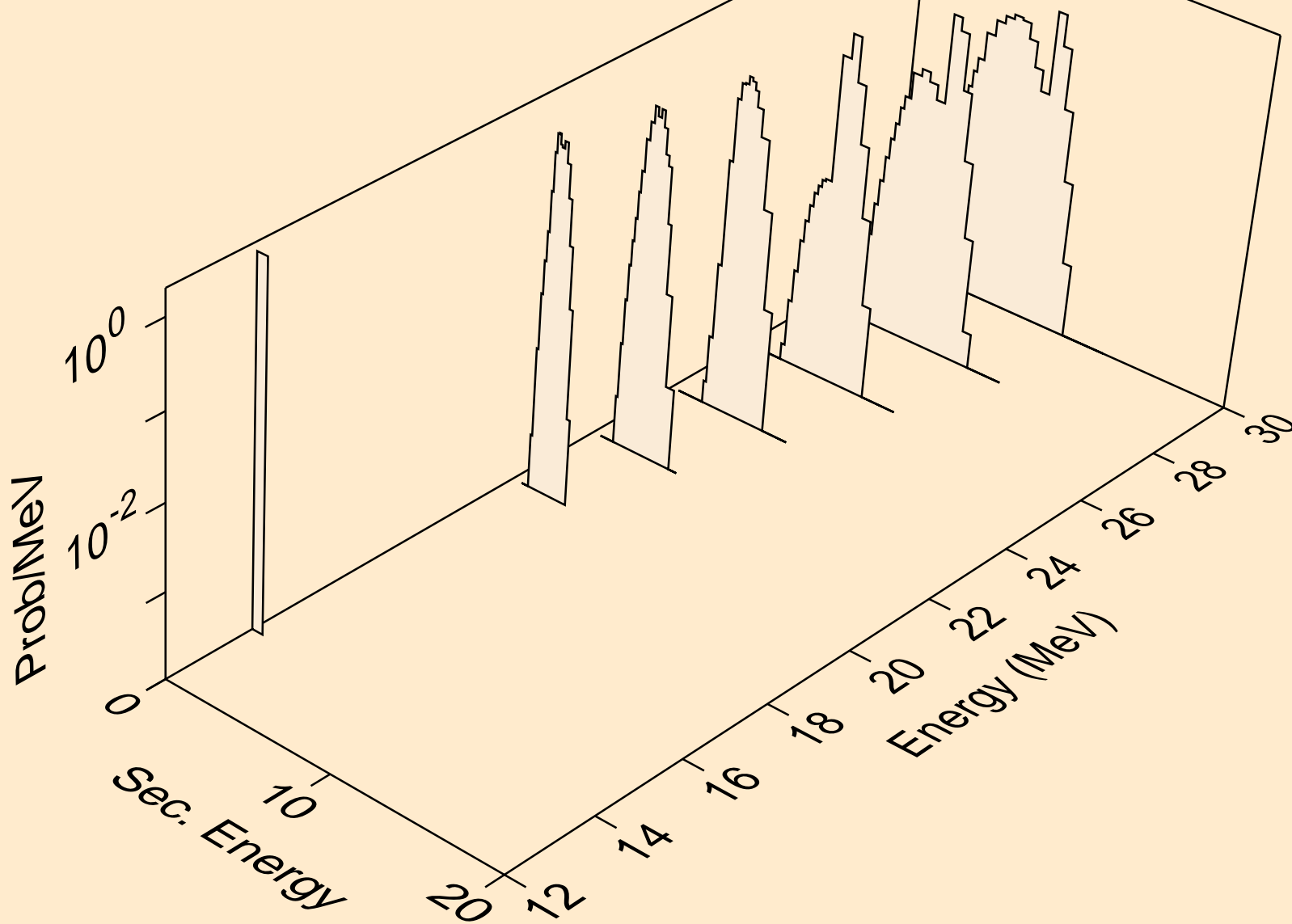
ZR091 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
deuterons from (a,d)



ZR091 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
deuterons from (a,pd)

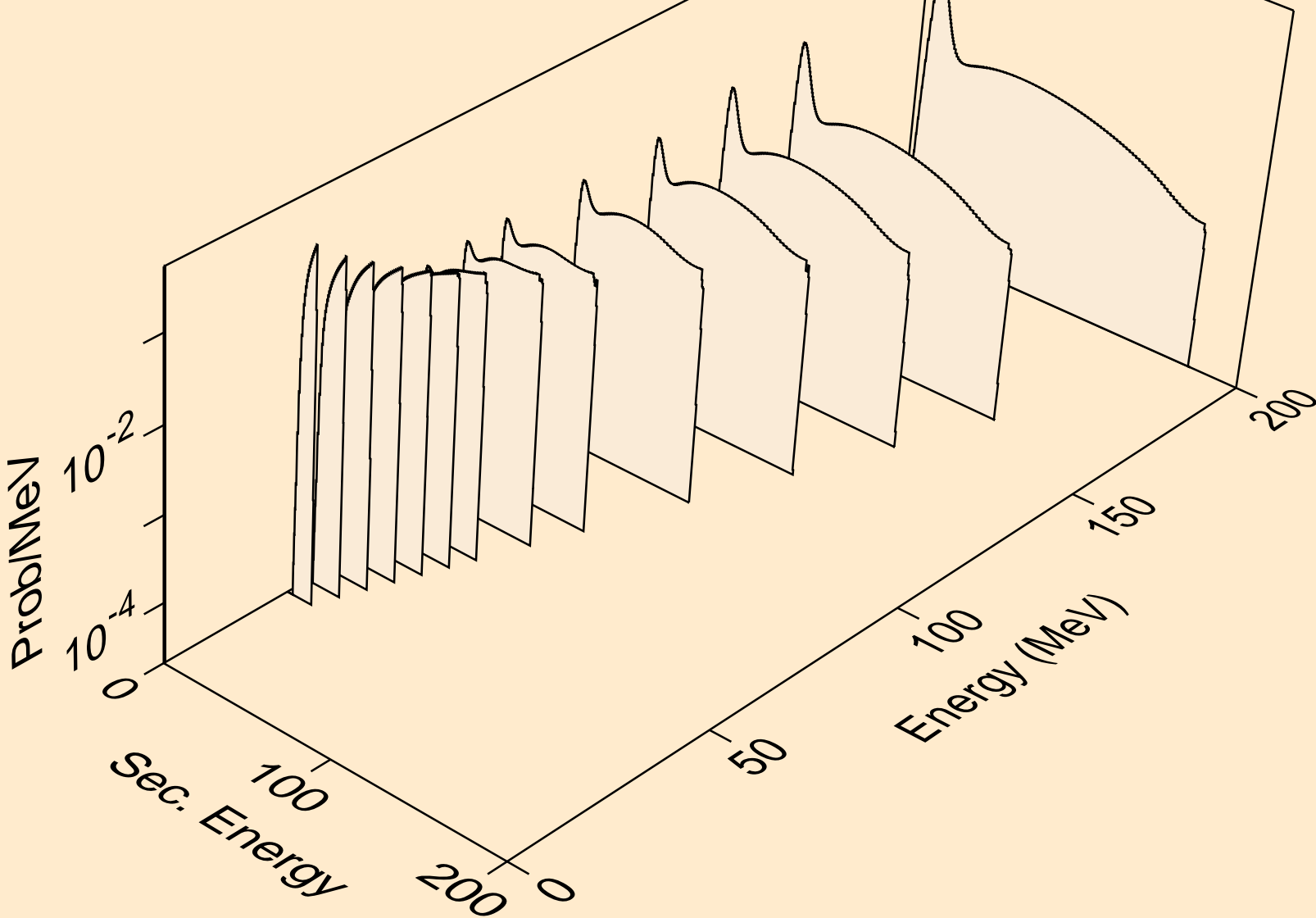


ZR091 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
deuterons from (a,da)

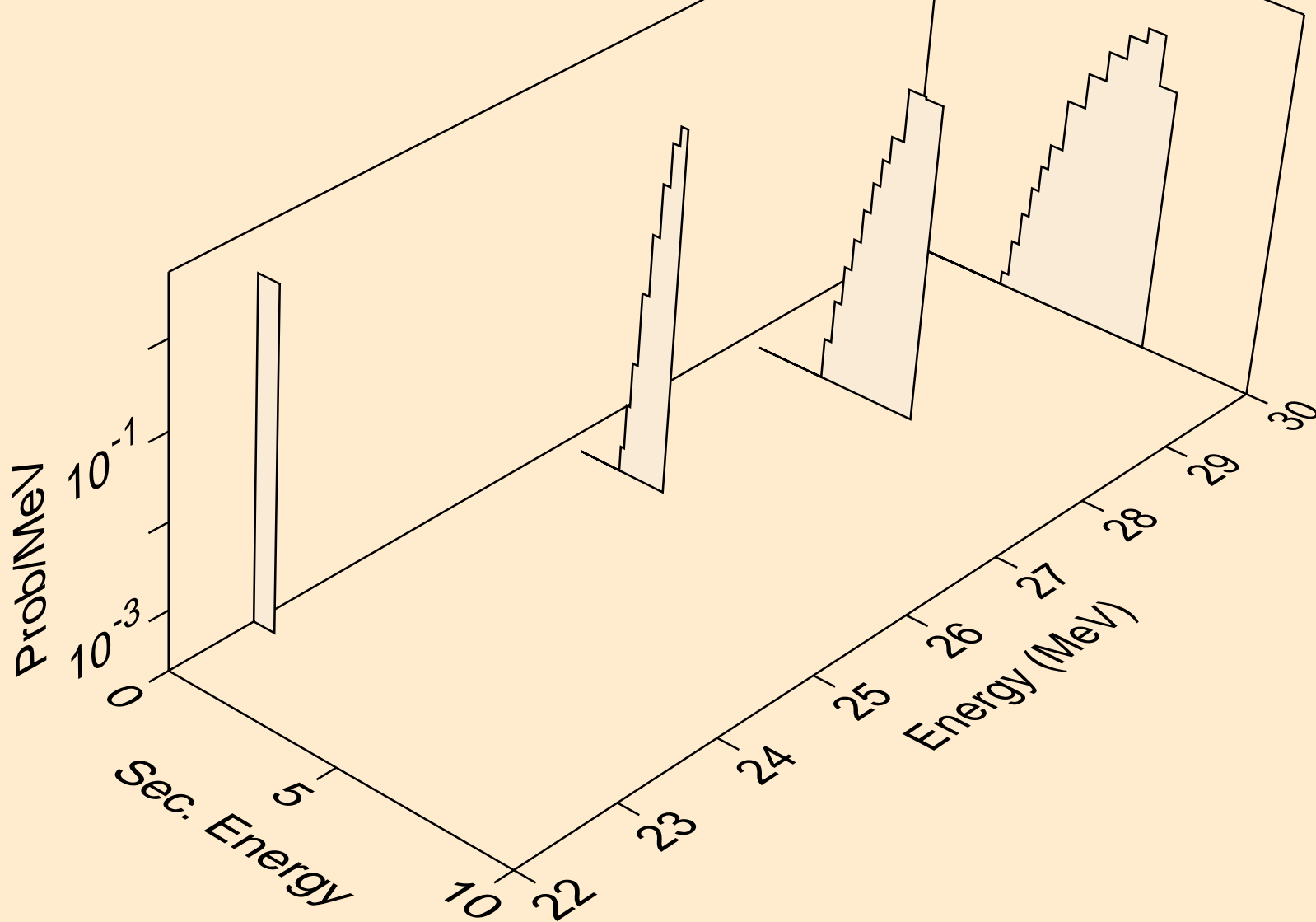




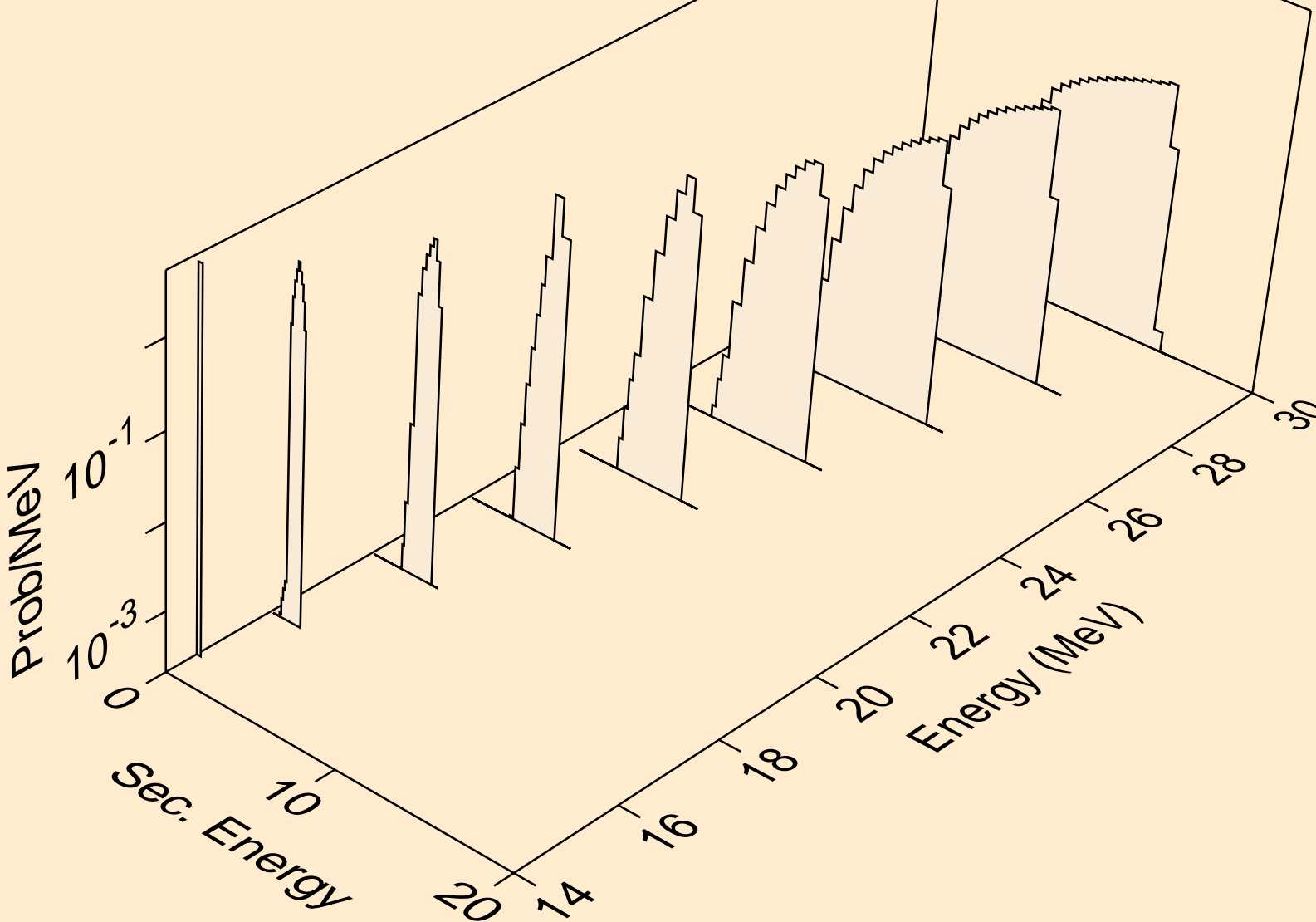
ZR091 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
tritons from (a,x)



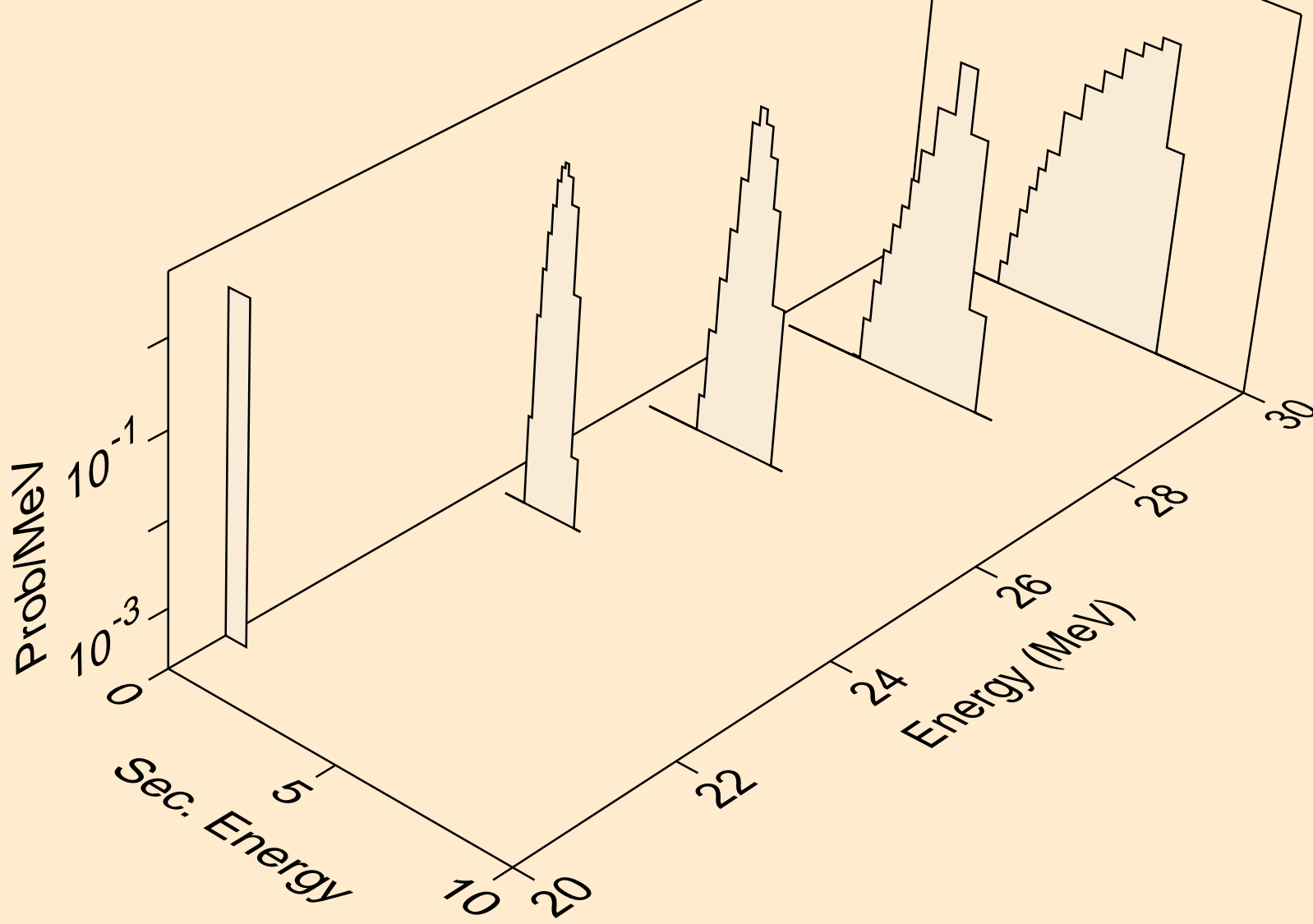
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tritons from (a,n\*)t



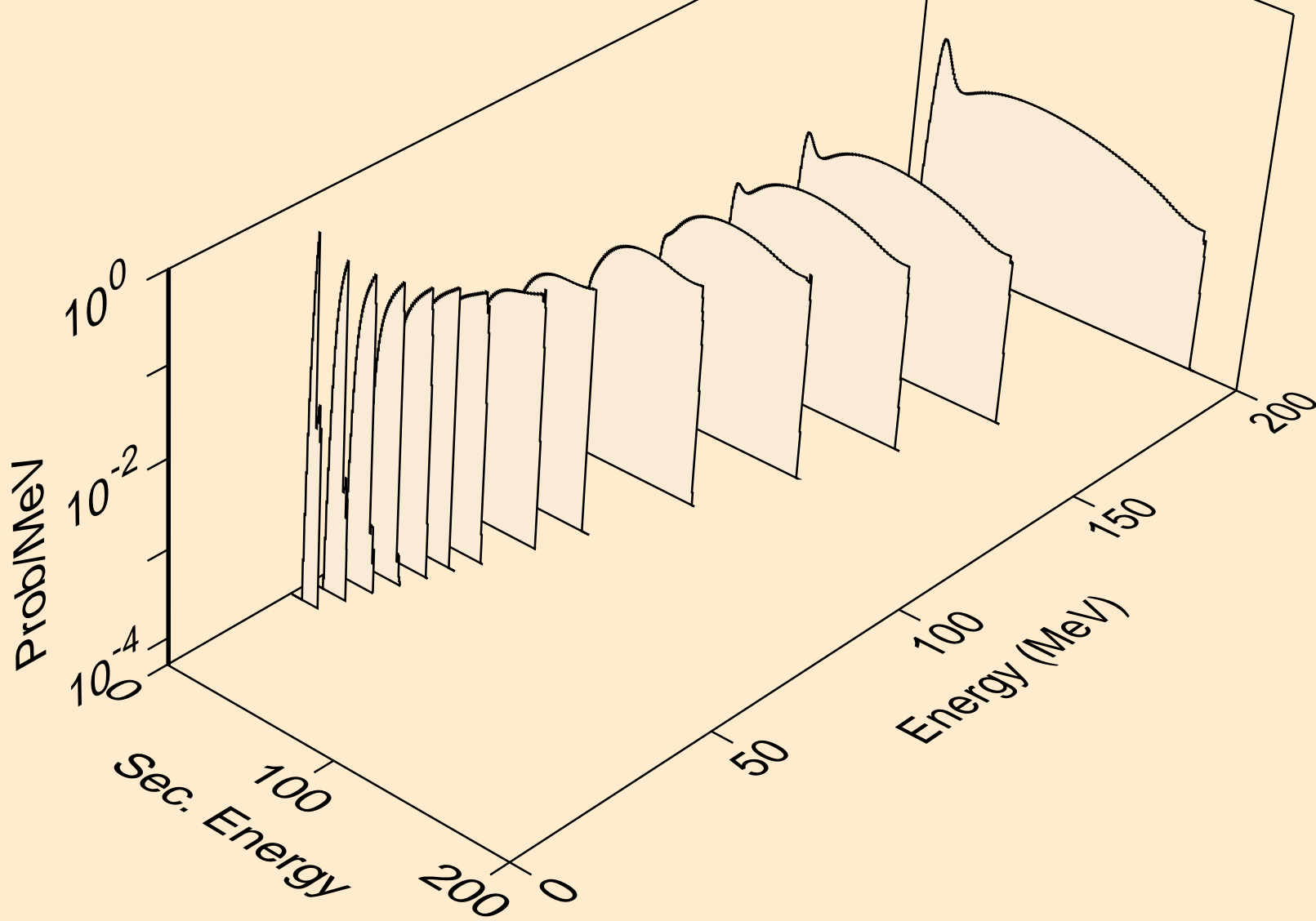
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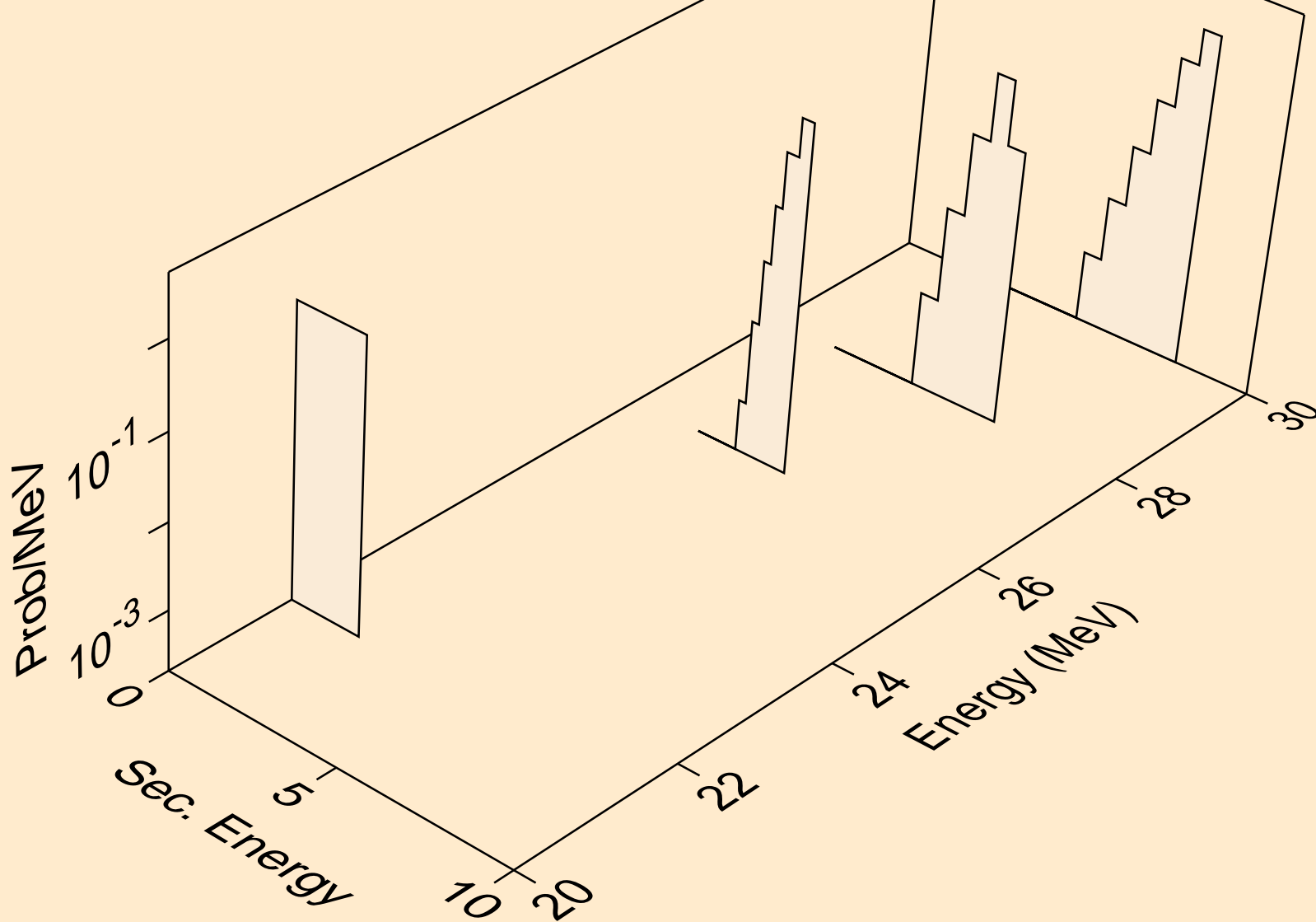
ZR091 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
tritons from (a,pt)



ZR091 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
he3s from (a,x)



ZR091 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
he3s from (a,n\*)he3



ZR091 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
he3s from (a,he3)

