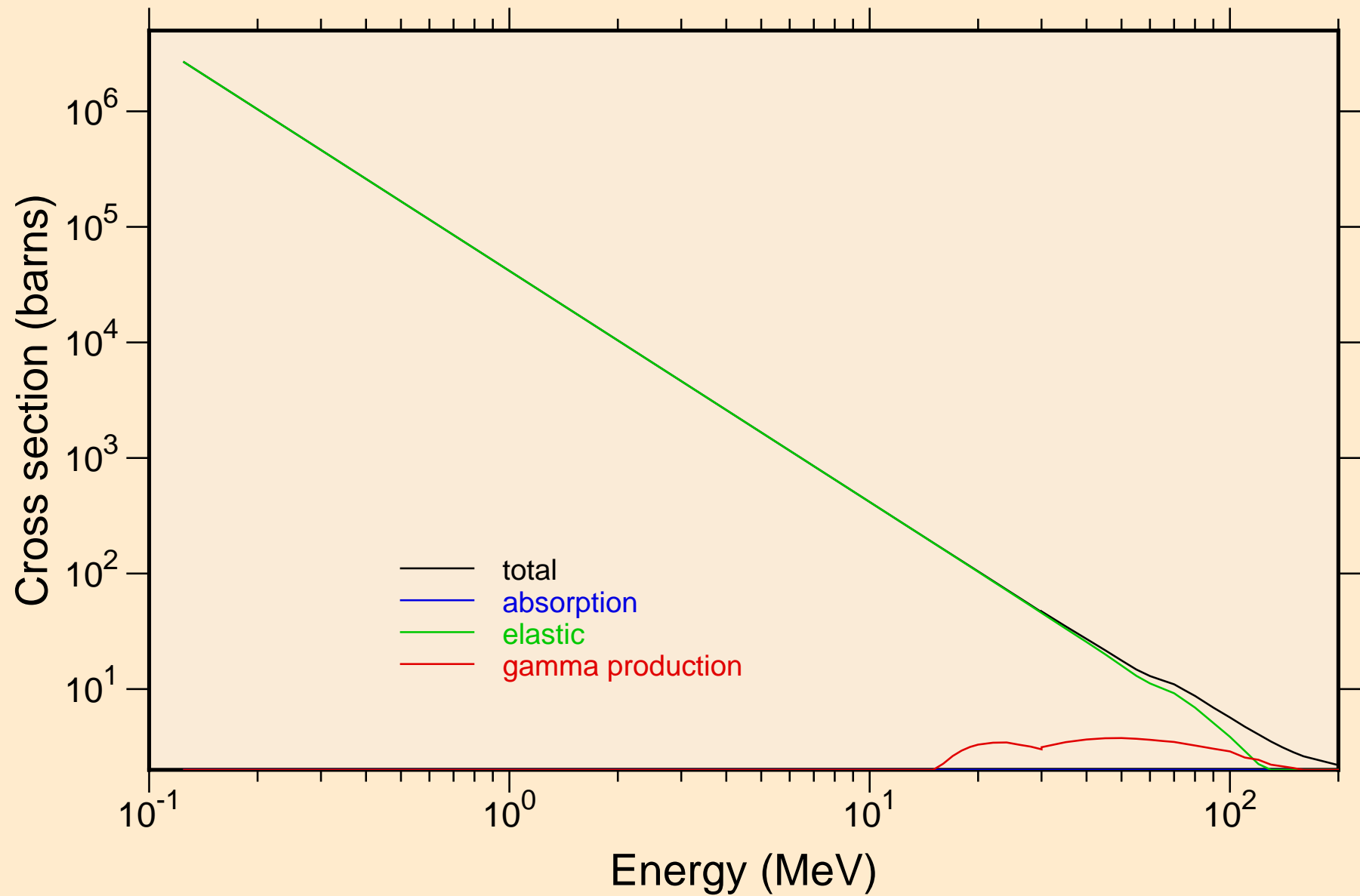
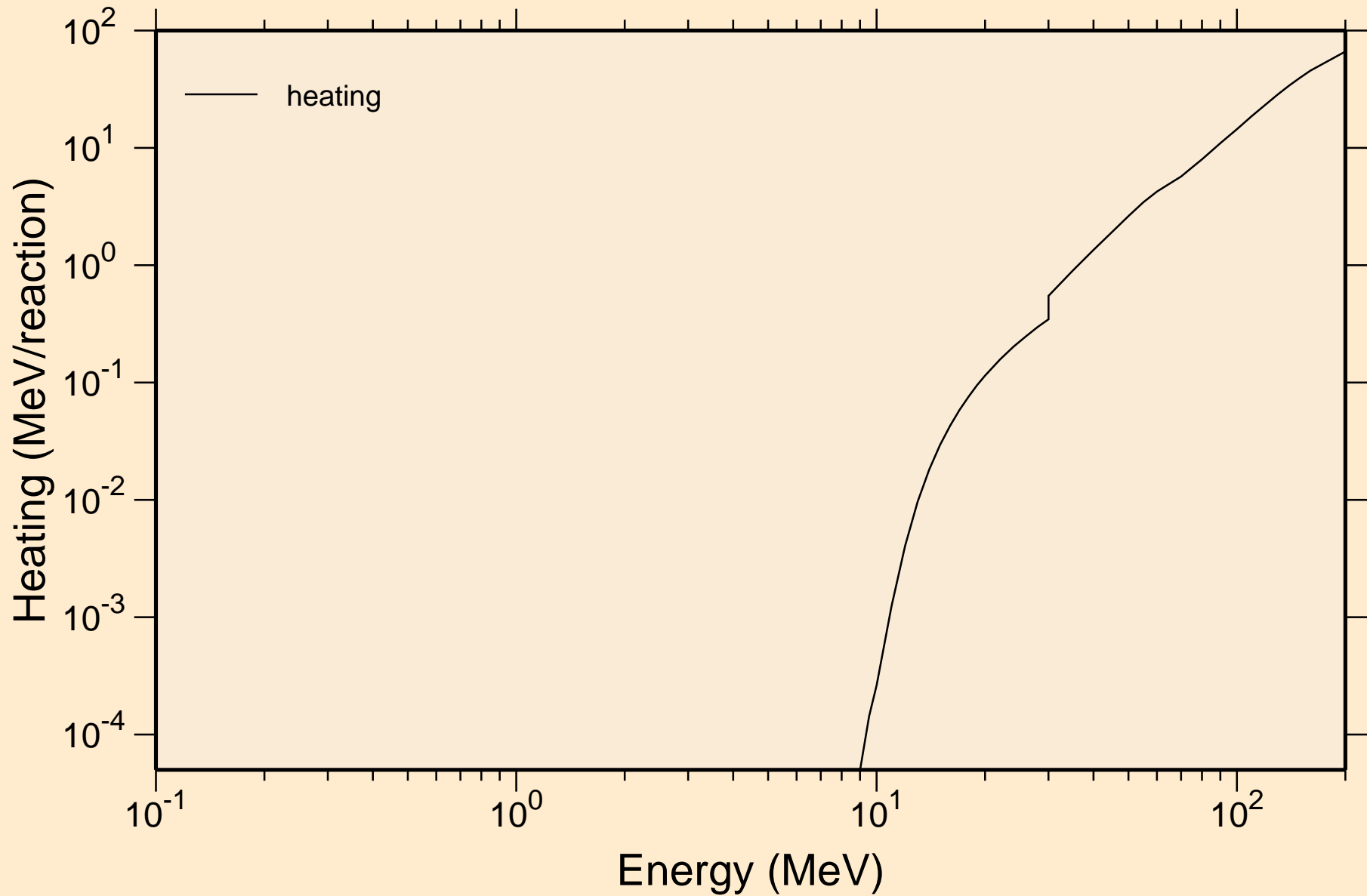


ZR102 HELION ACER TENDL-2021 LIBRARY; T=0.K  
Principal cross sections



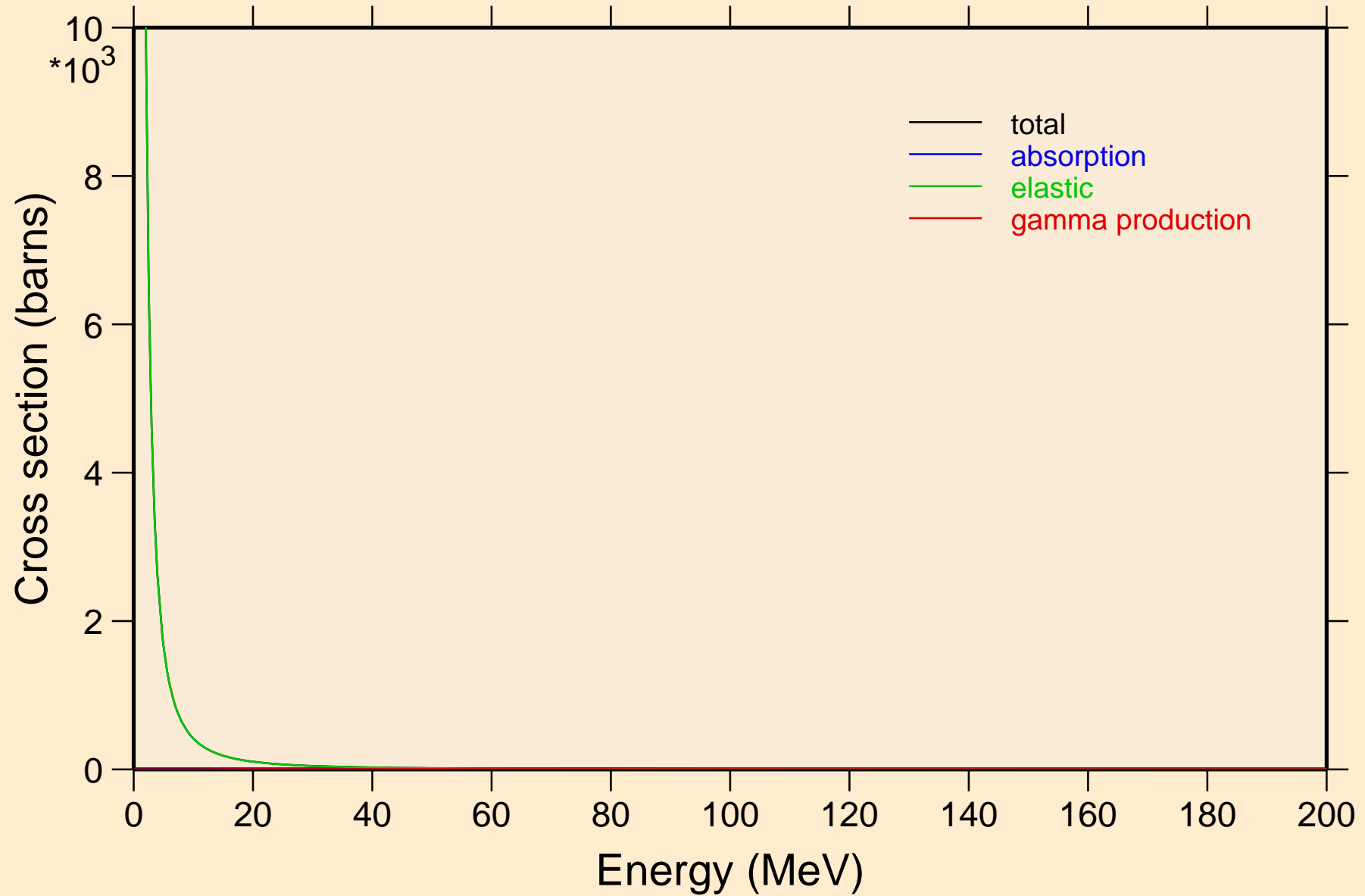
ZR102 HELION ACER TENDL-2021 LIBRARY; T=0.K

Heating



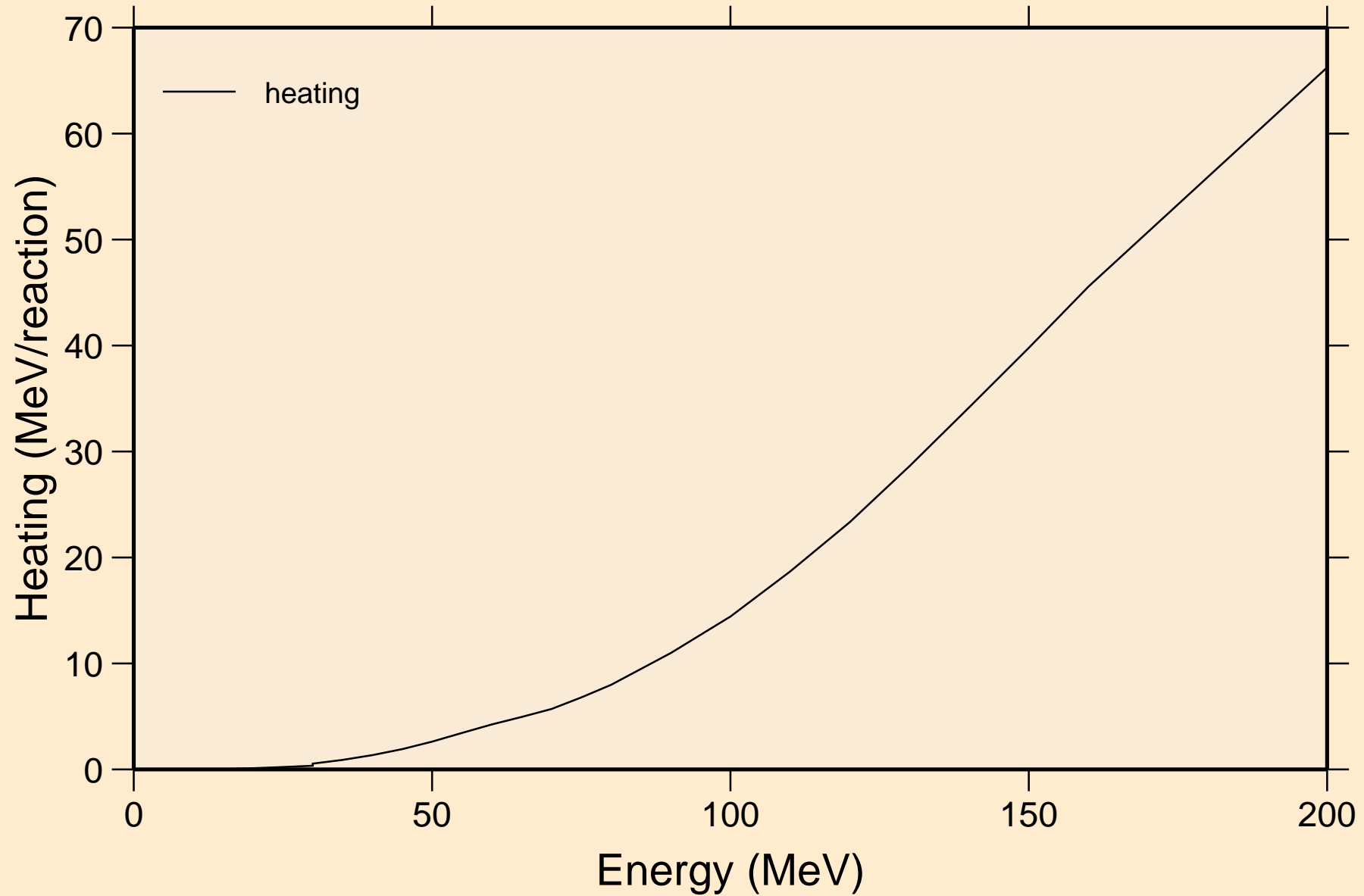
# ZR102 HELION ACER TENDL-2021 LIBRARY; T=0.K

## Principal cross sections

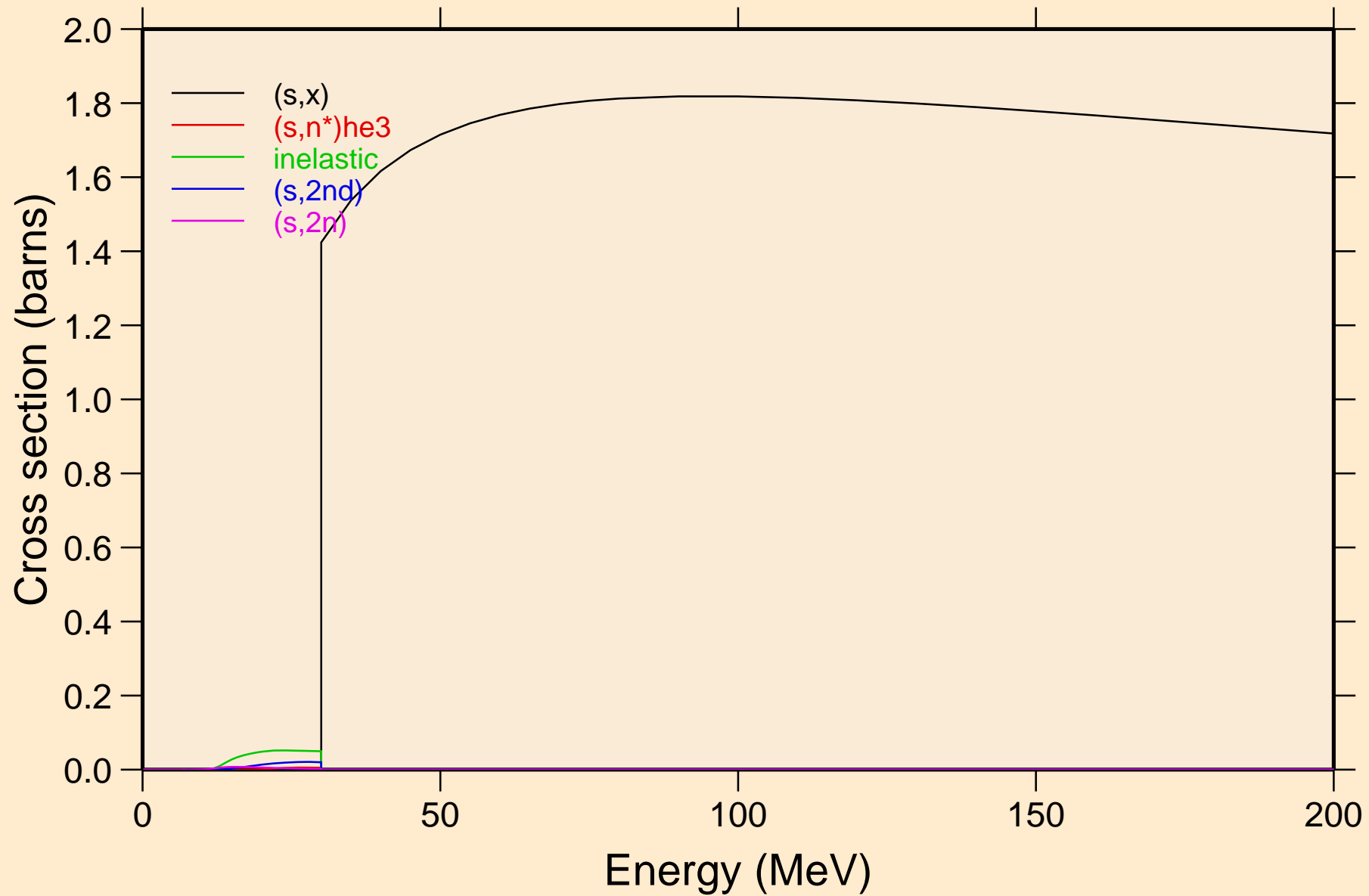


ZR102 HELION ACER TENDL-2021 LIBRARY; T=0.K

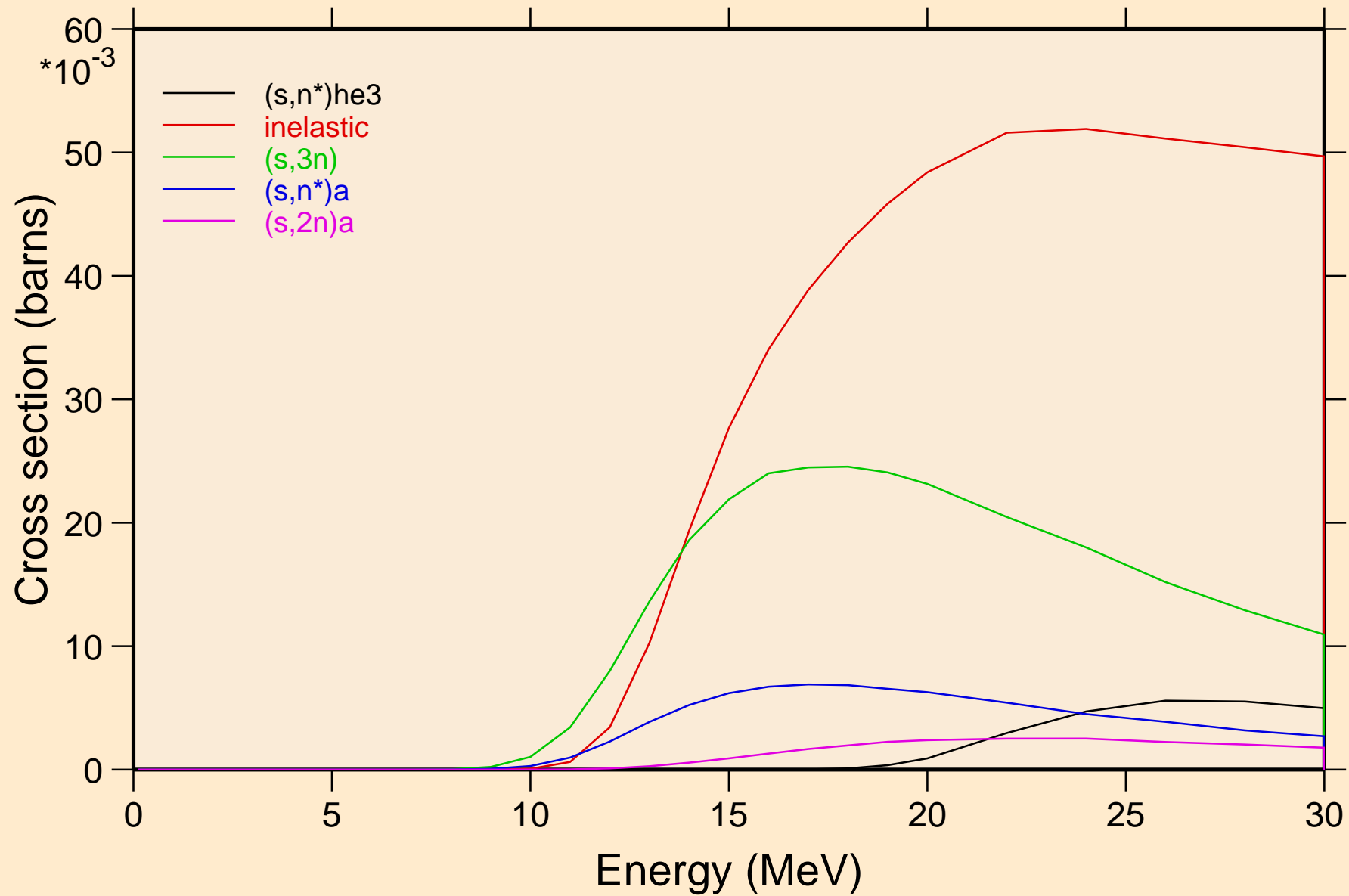
Heating



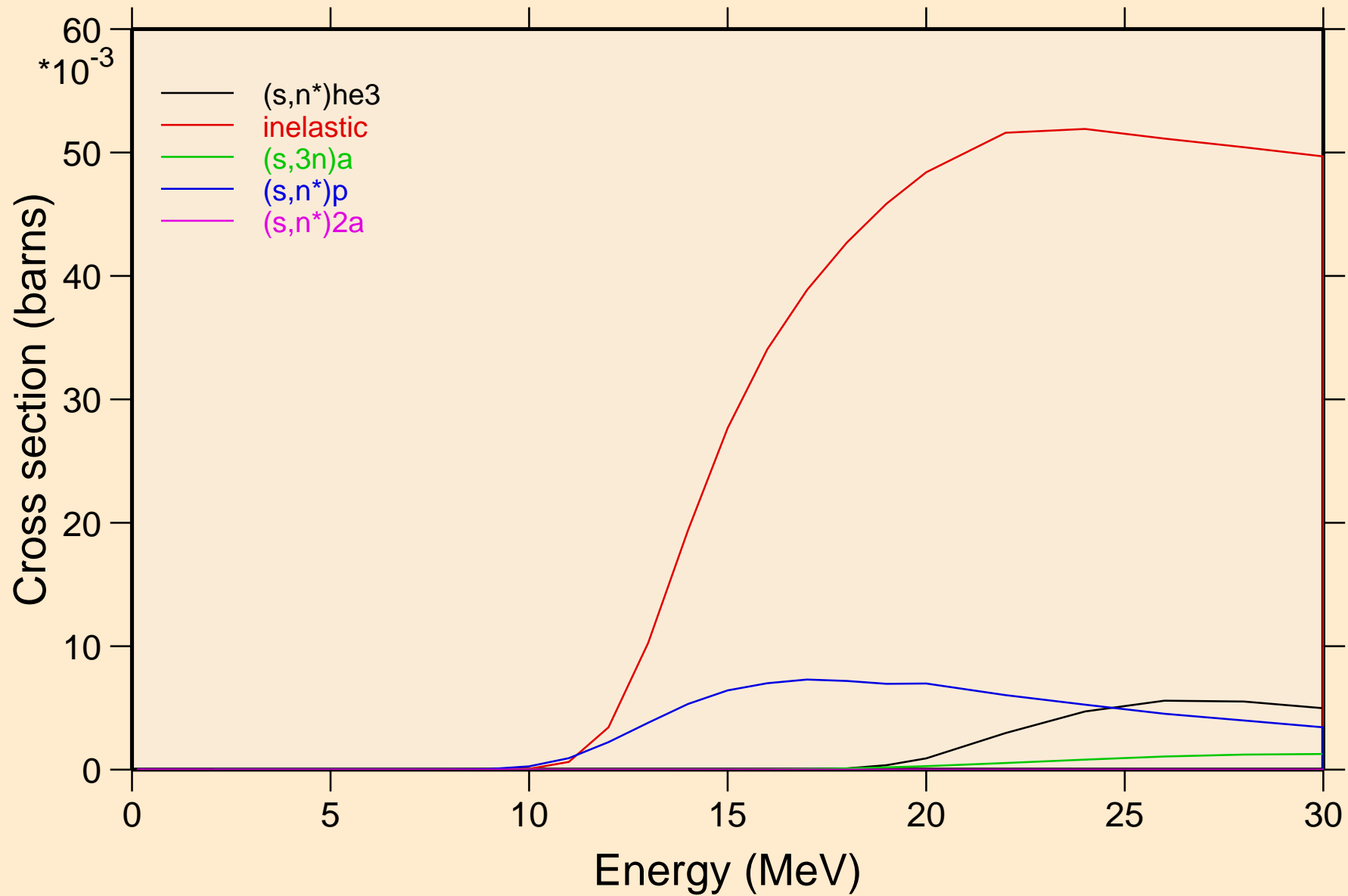
ZR102 HELION ACER TENDL-2021 LIBRARY; T=0.K  
Threshold reactions



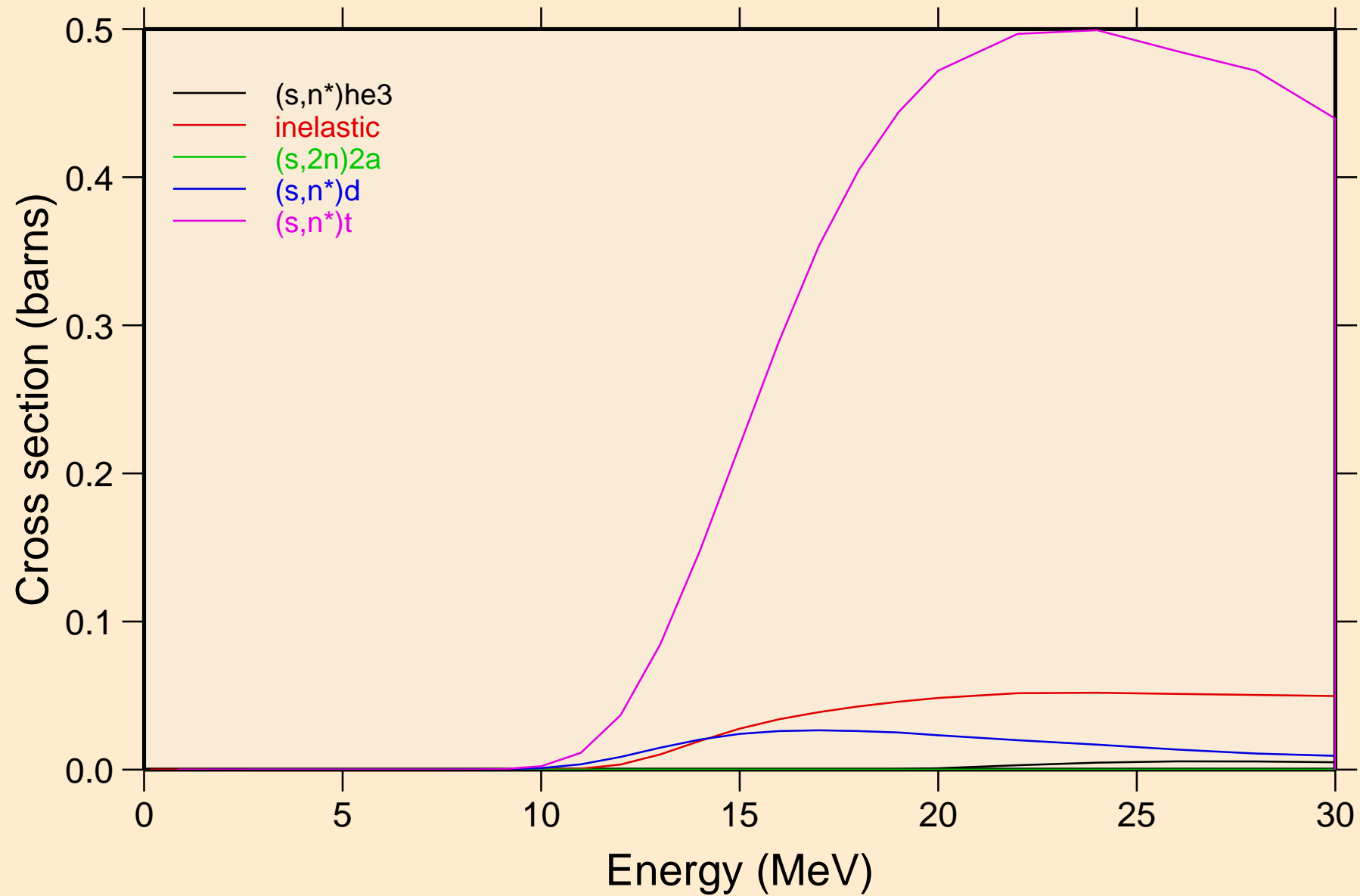
ZR102 HELION ACER TENDL-2021 LIBRARY; T=0.K  
Threshold reactions



ZR102 HELION ACER TENDL-2021 LIBRARY; T=0.K  
Threshold reactions

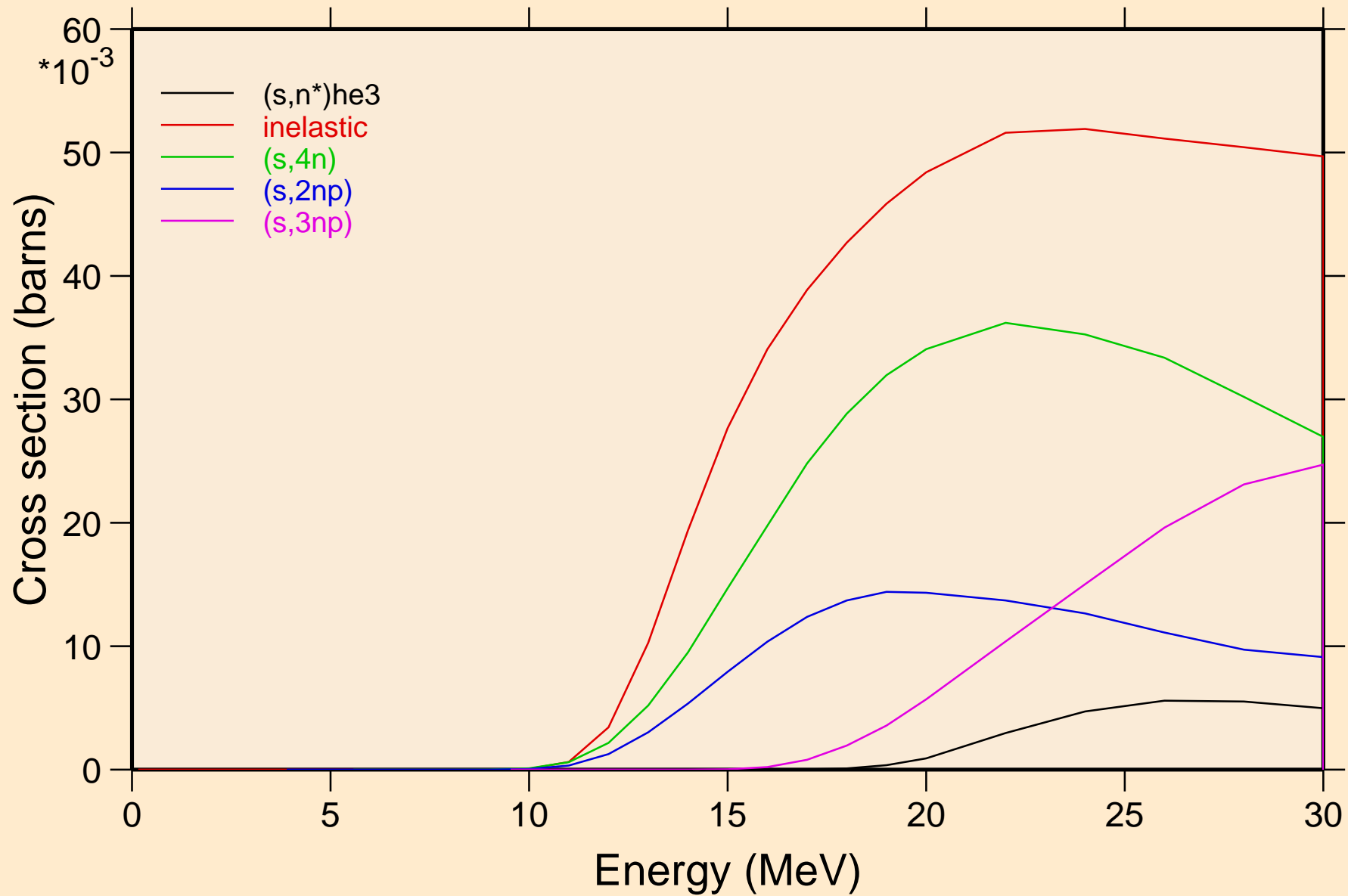


ZR102 HELION ACER TENDL-2021 LIBRARY; T=0.K  
Threshold reactions

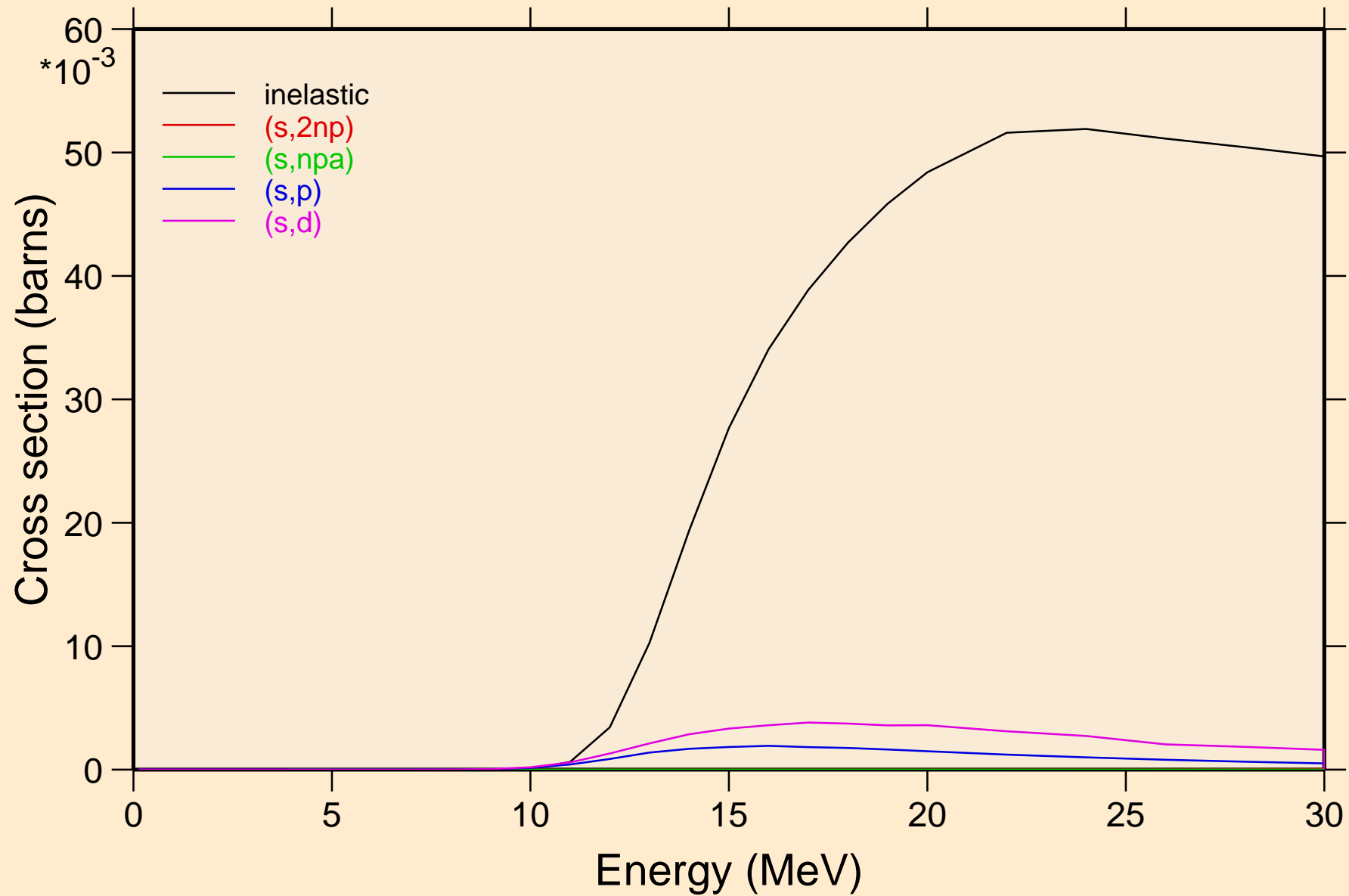




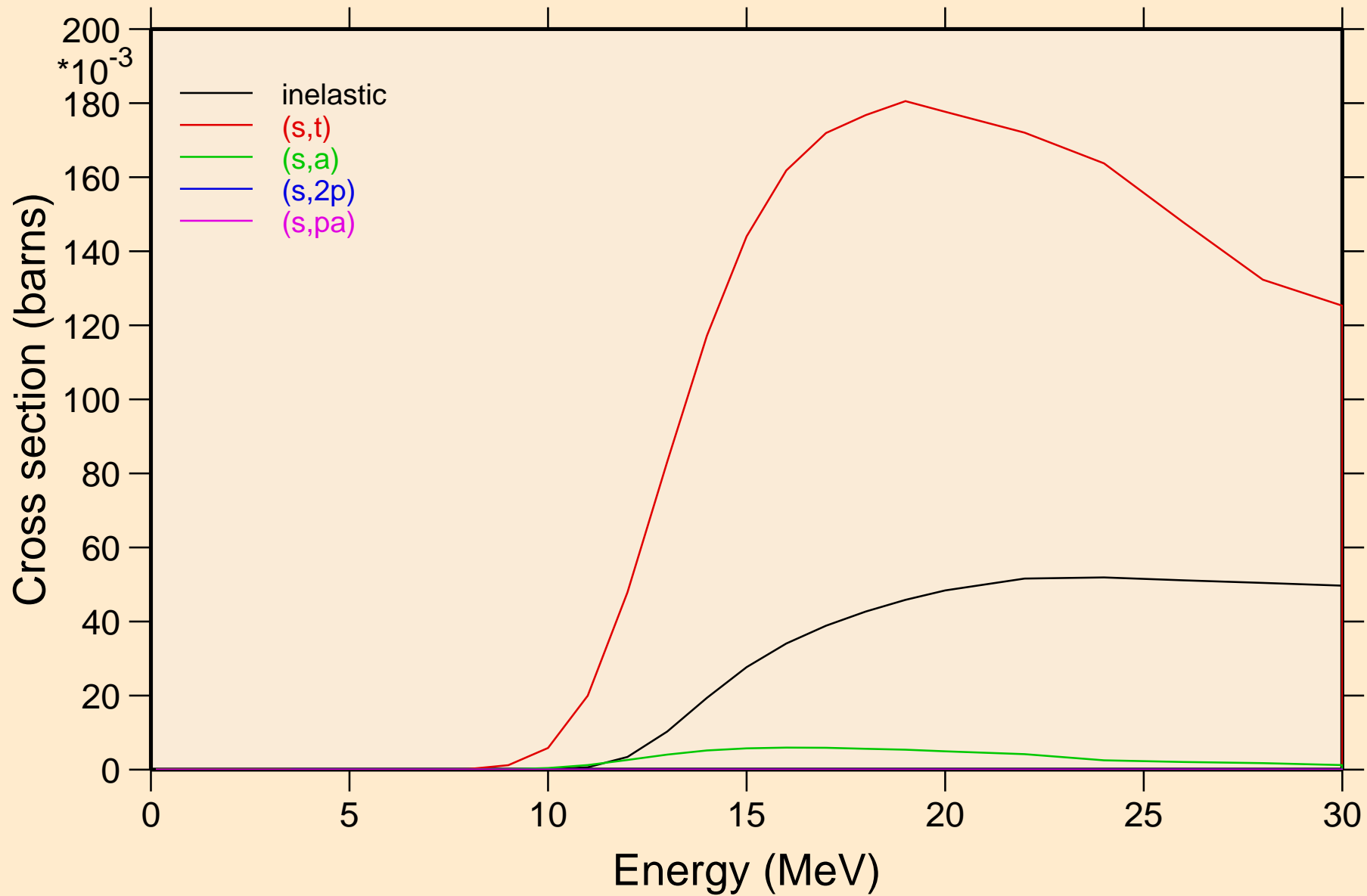
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Threshold reactions



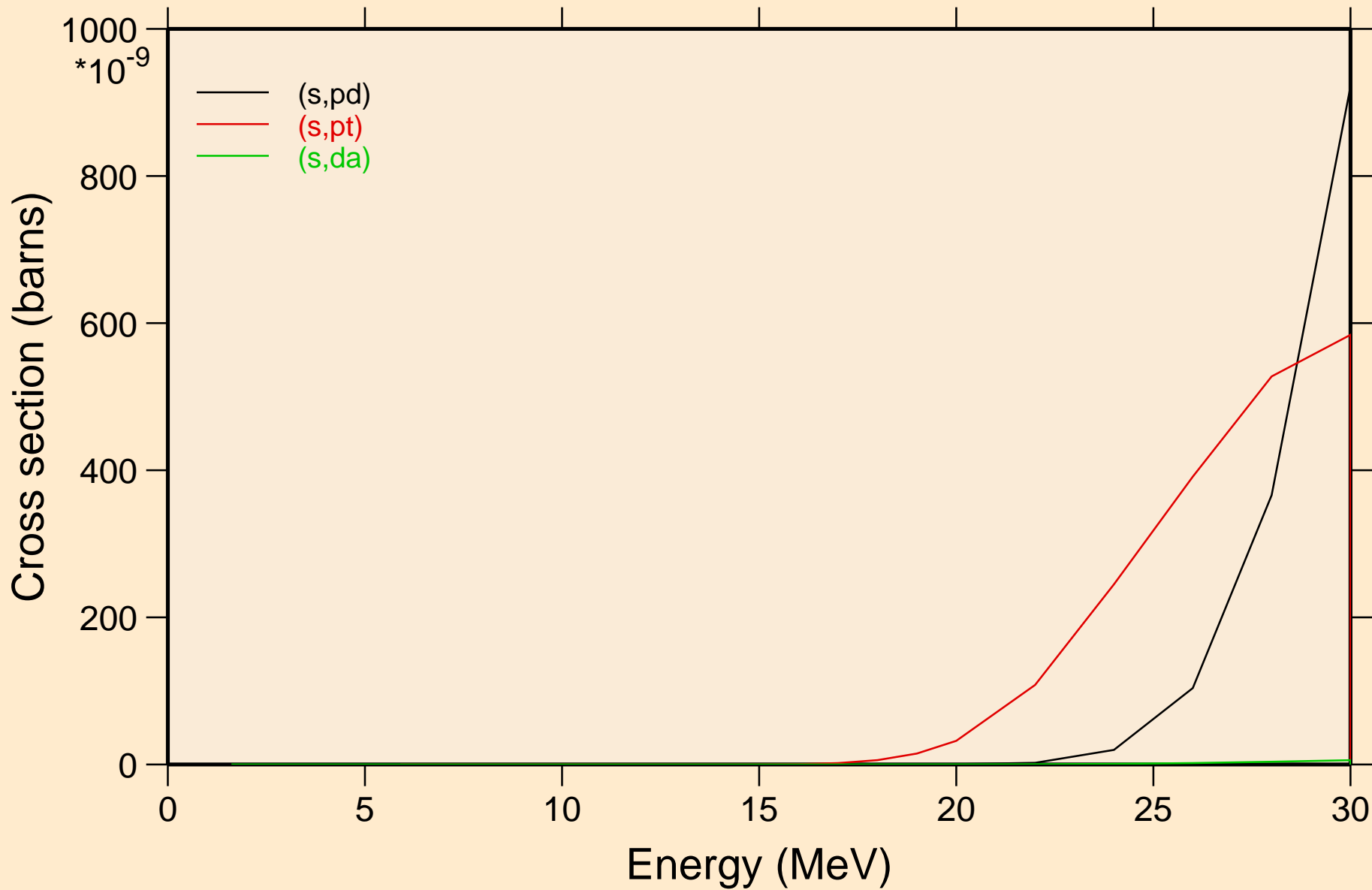
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Threshold reactions



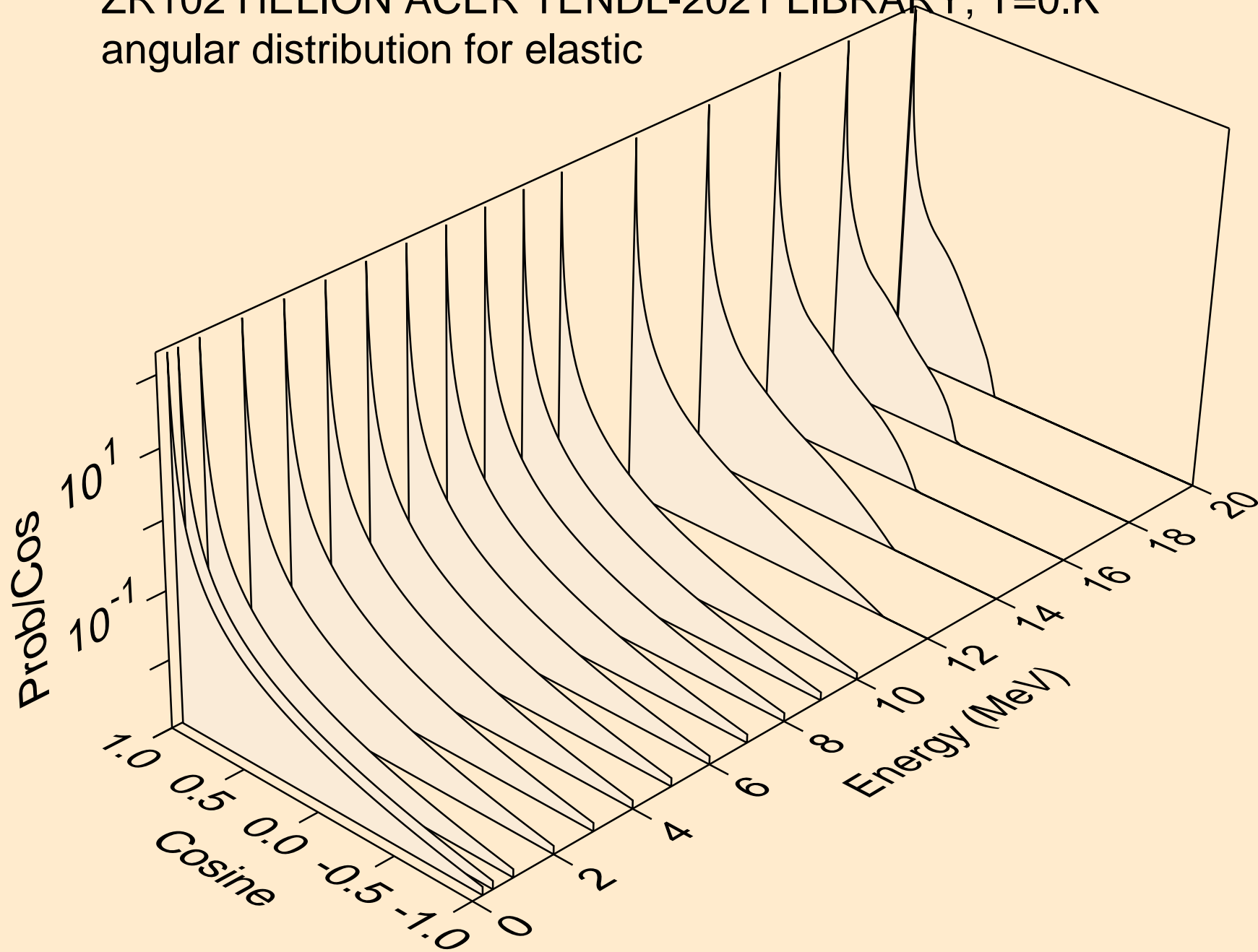
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Threshold reactions



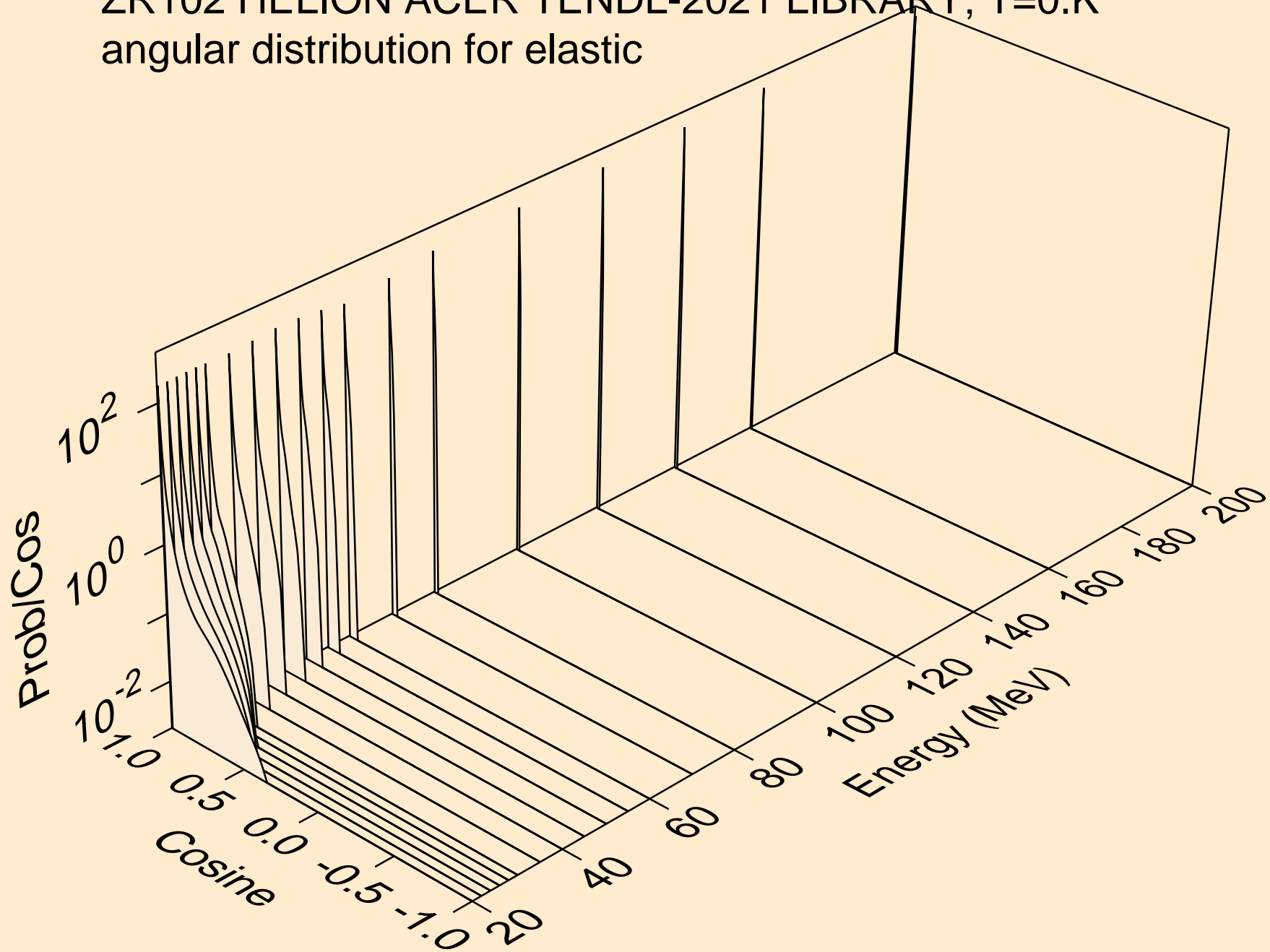
ZR102 HELION ACER TENDL-2021 LIBRARY; T=0.K  
Threshold reactions



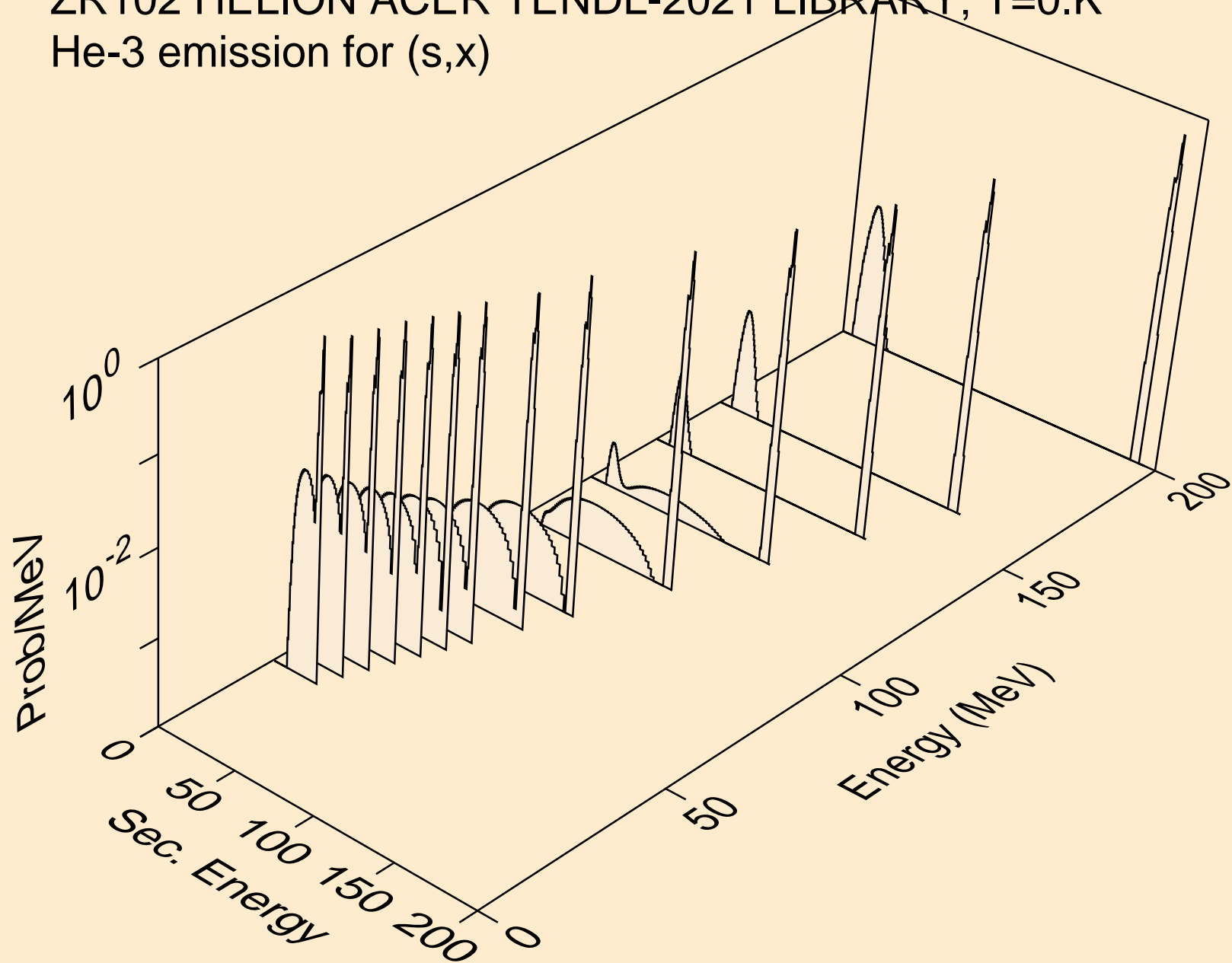
ZR102 HELION ACER TENDL-2021 LIBRARY; T=0.K  
angular distribution for elastic



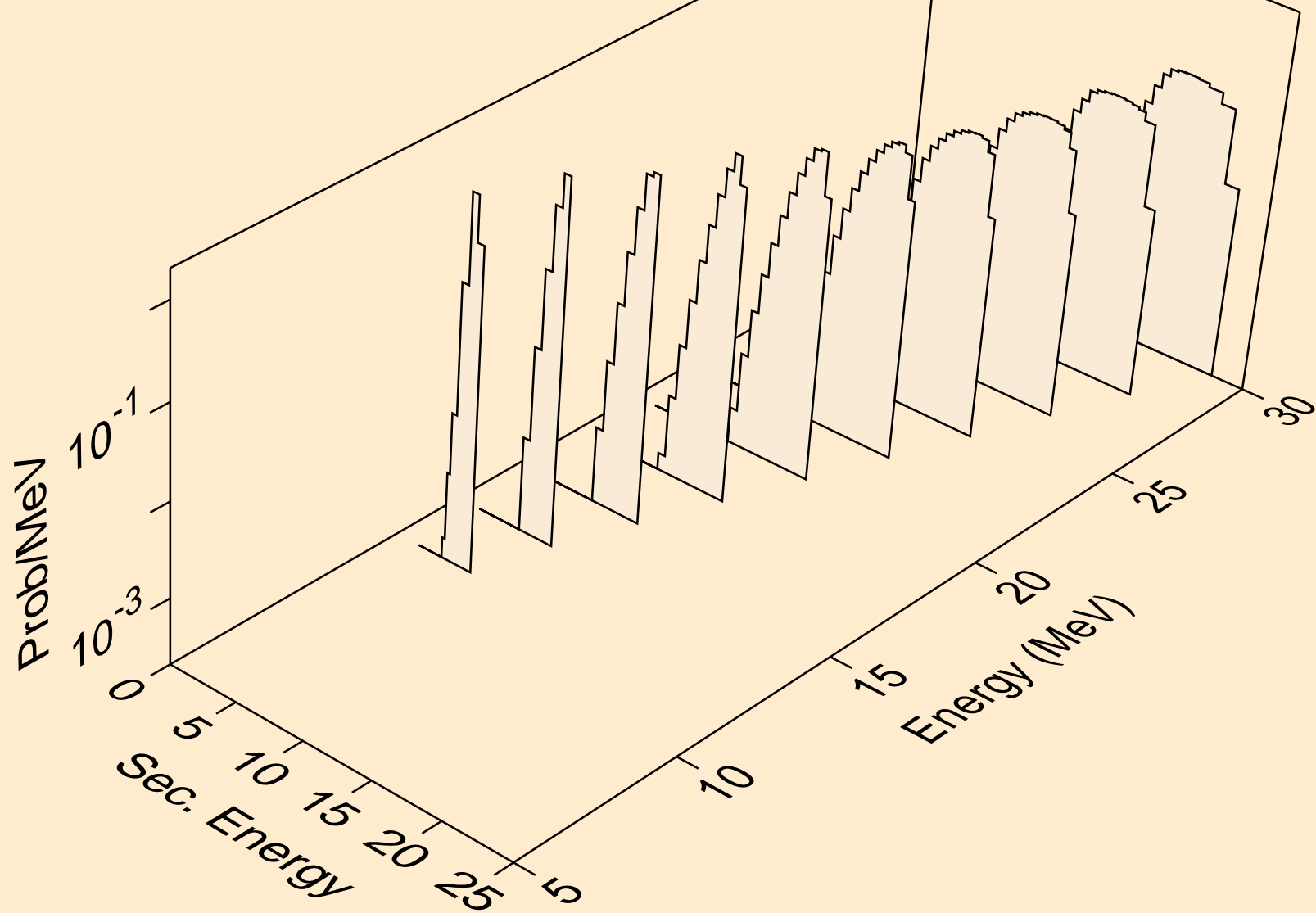
ZR102 HELION ACER TENDL-2021 LIBRARY; T=0.K  
angular distribution for elastic



ZR102 HELION ACER TENDL-2021 LIBRARY; T=0.K  
He-3 emission for (s,x)

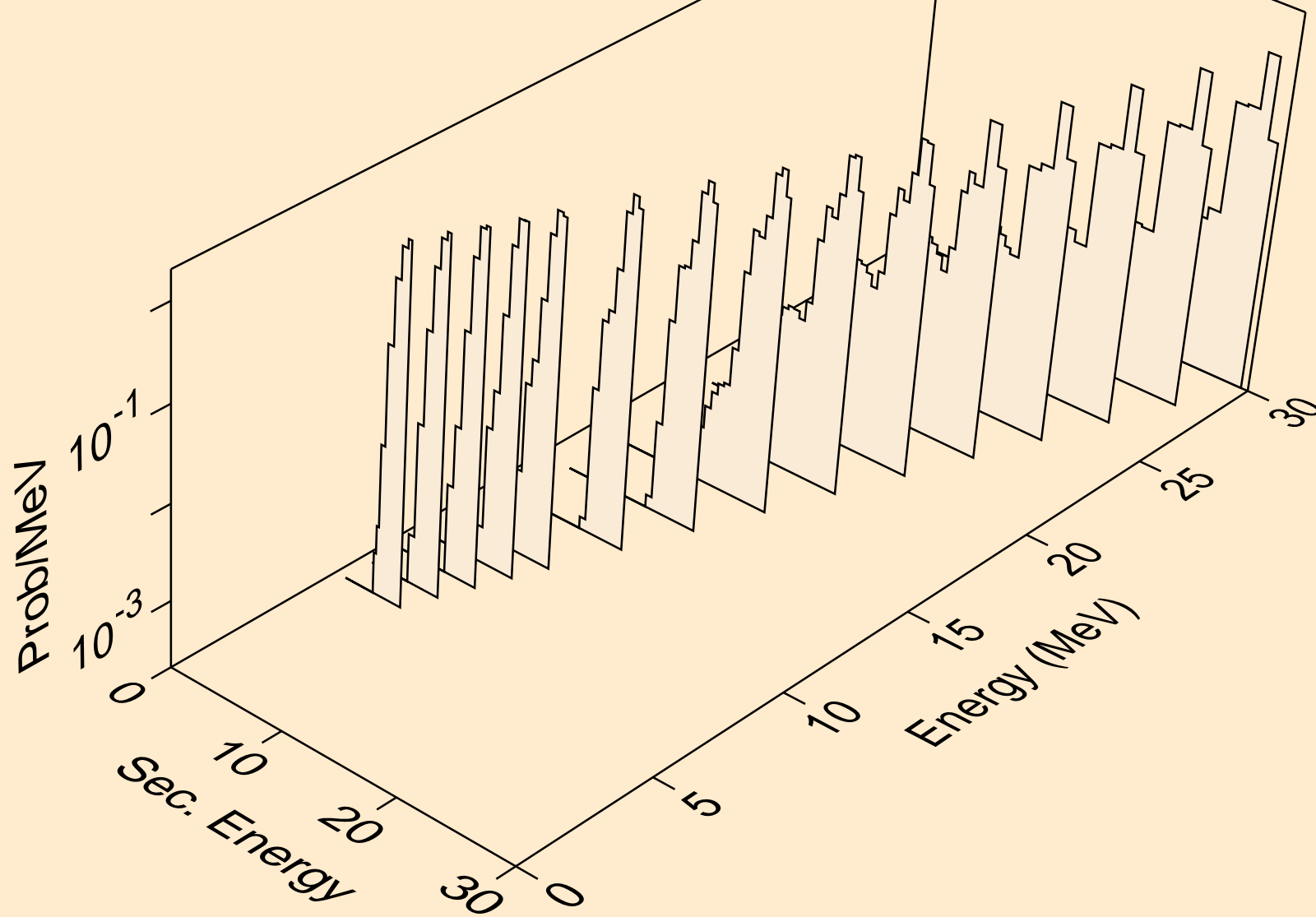


ZR102 HELION ACER TENDL-2021 LIBRARY; T=0.K  
He-3 emission for (s,n\*)he3

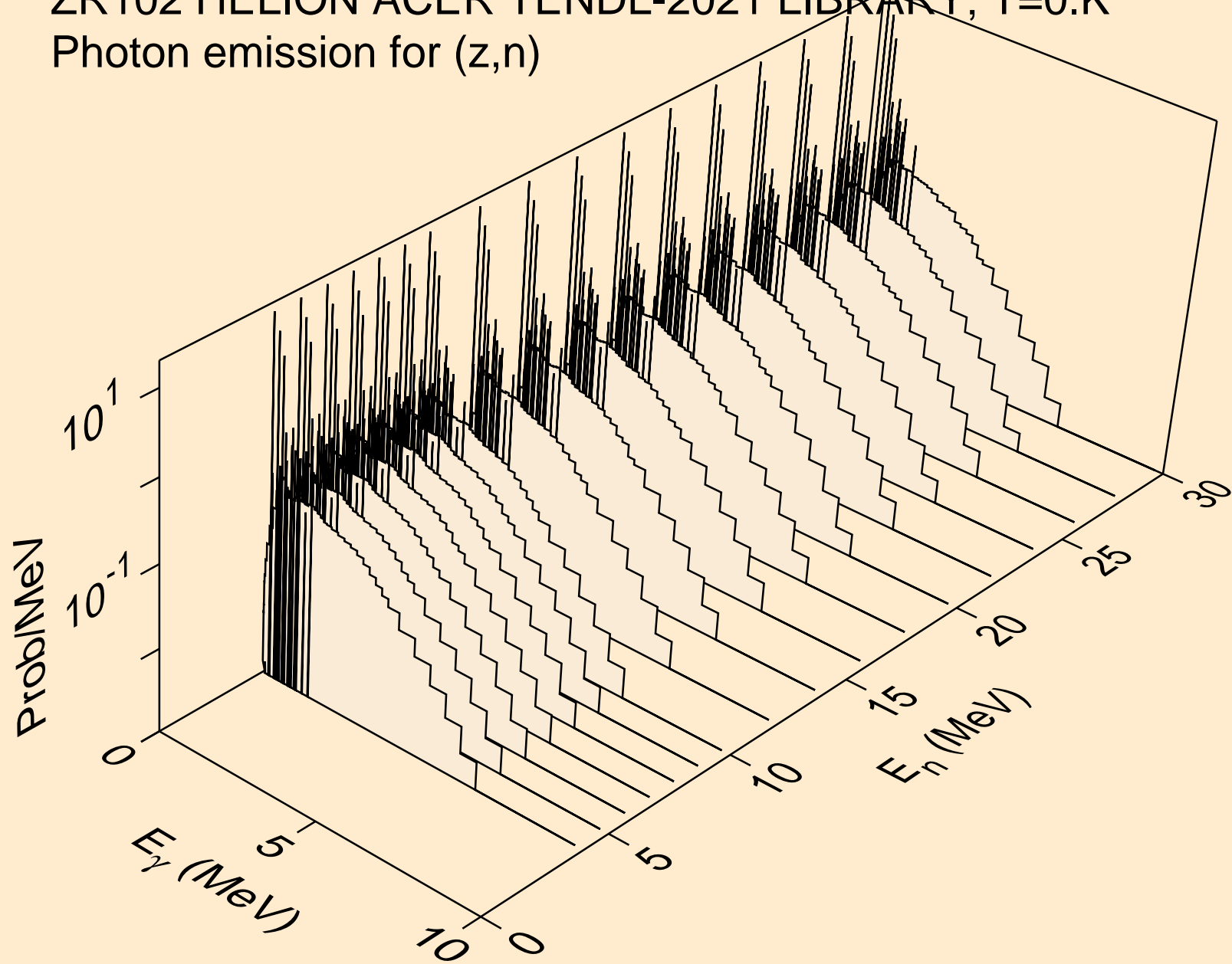




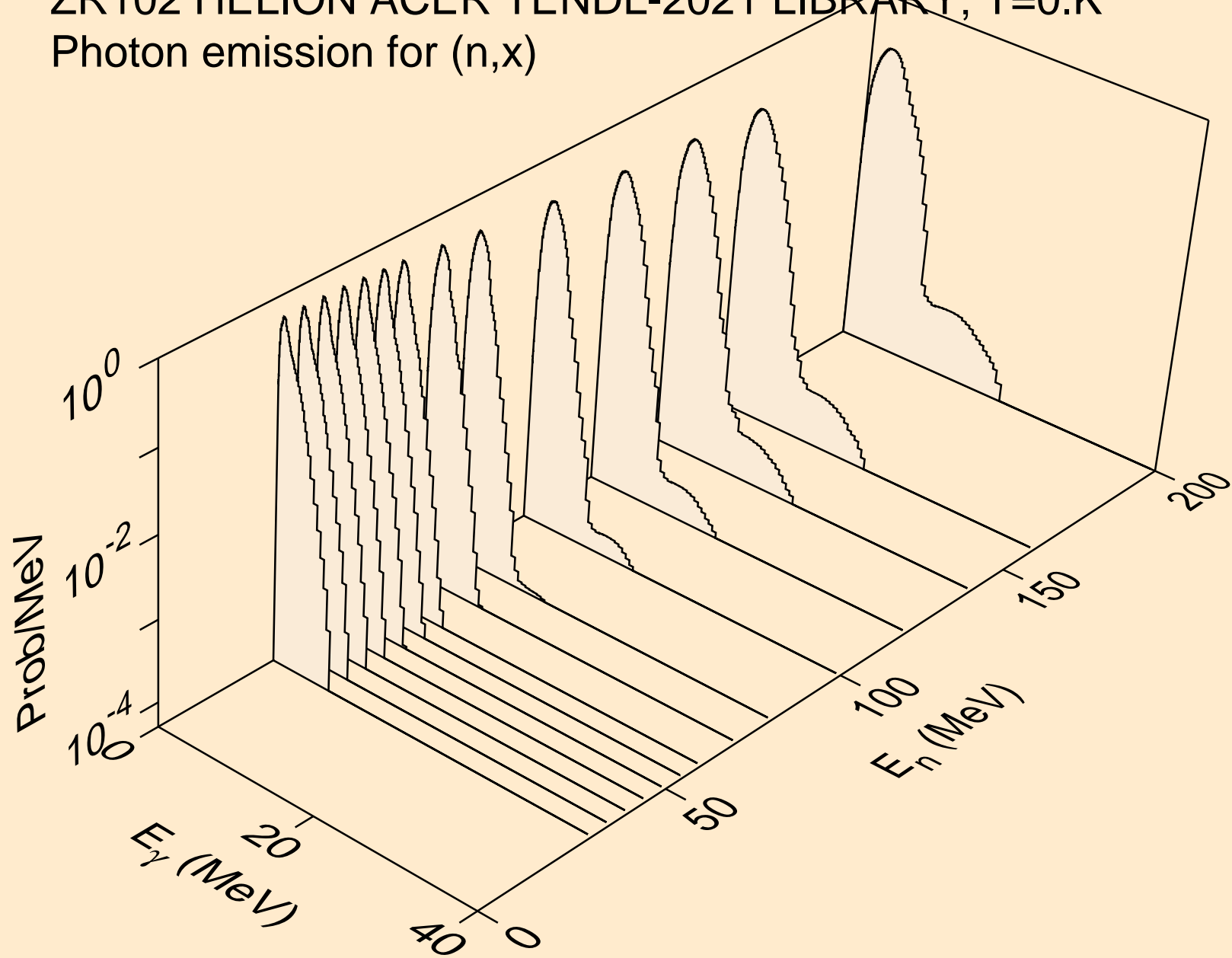
ZR102 HELION ACER TENDL-2021 LIBRARY; T=0.K  
He-3 emission for inelastic



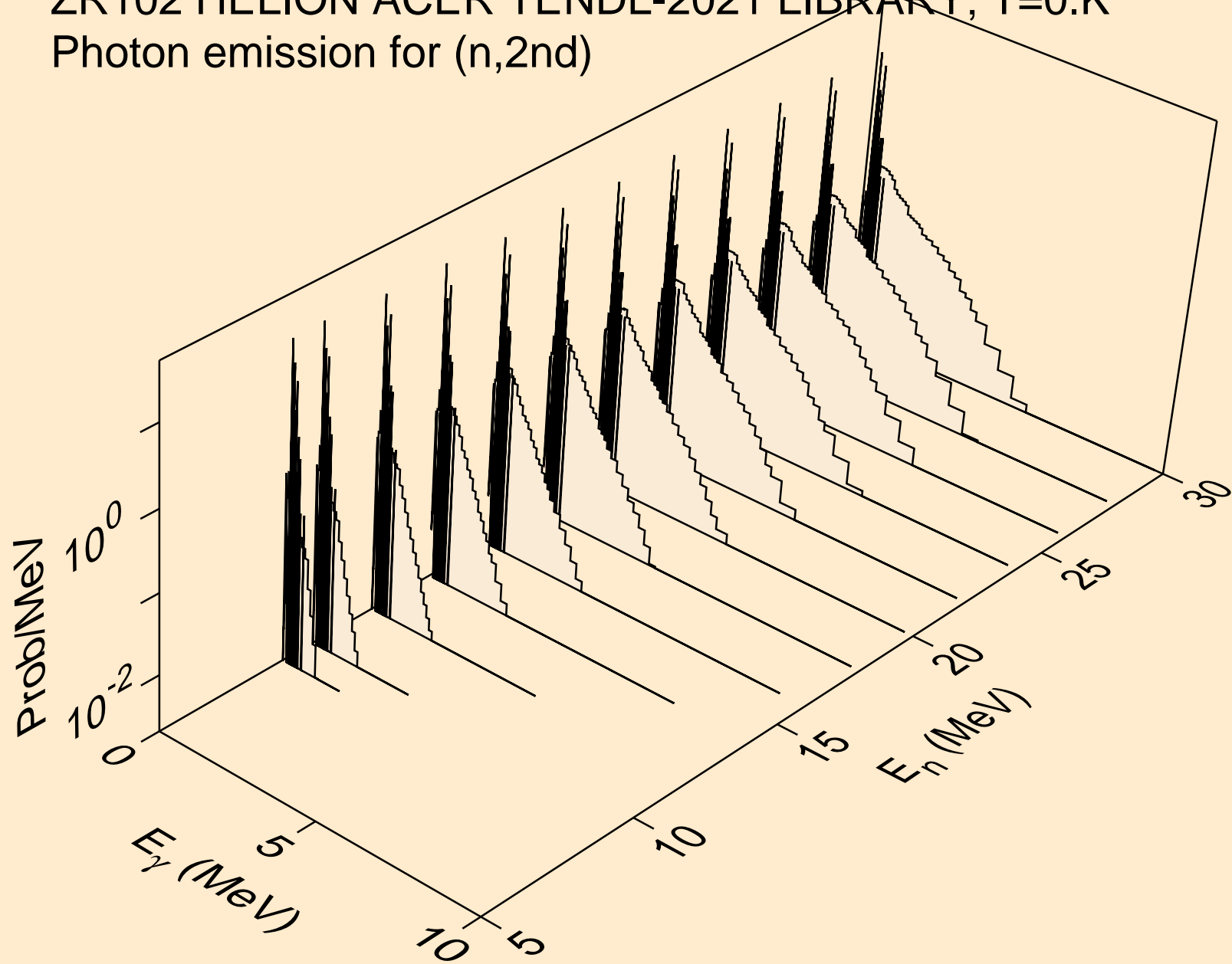
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Photon emission for (z,n)



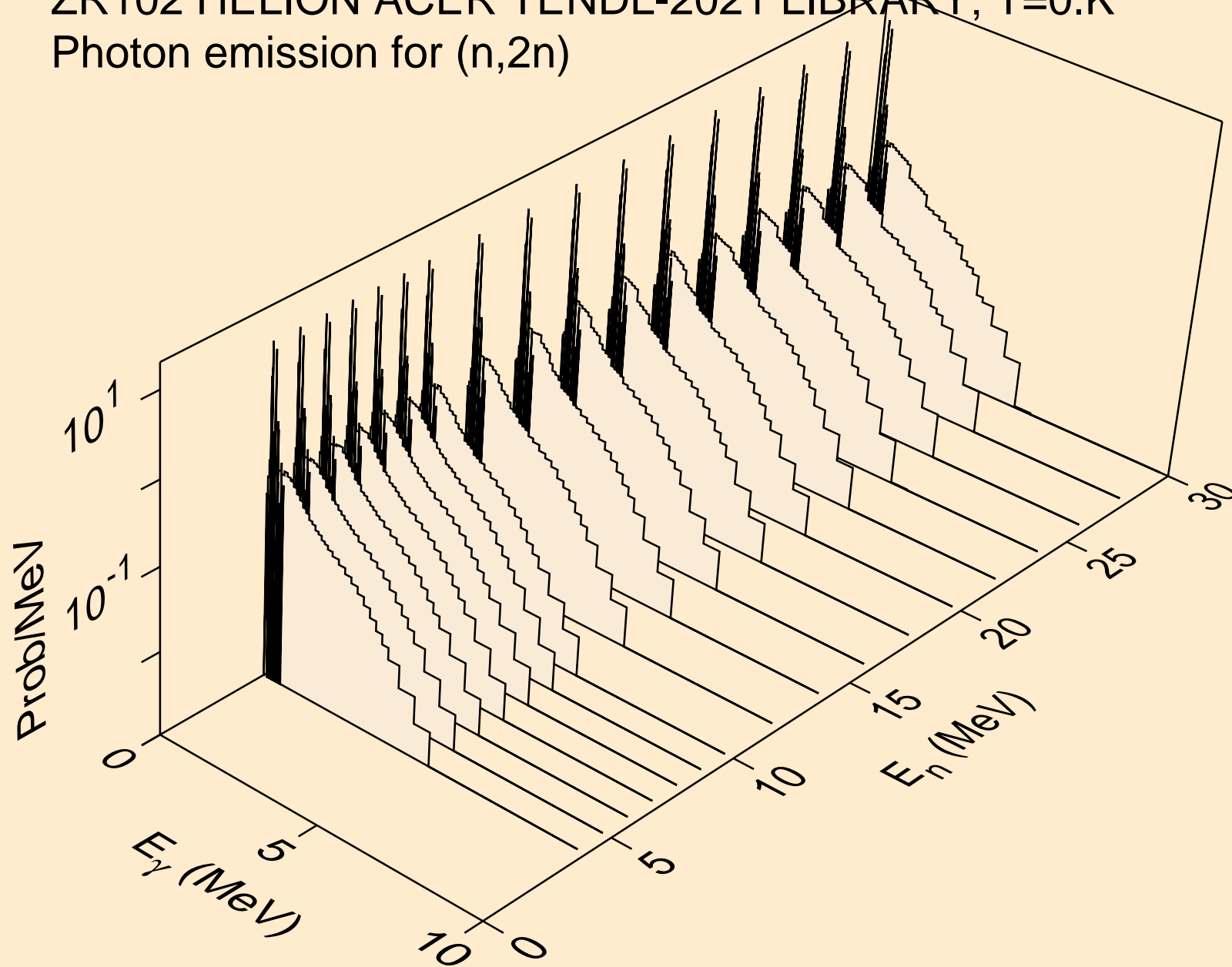
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Photon emission for (n,x)



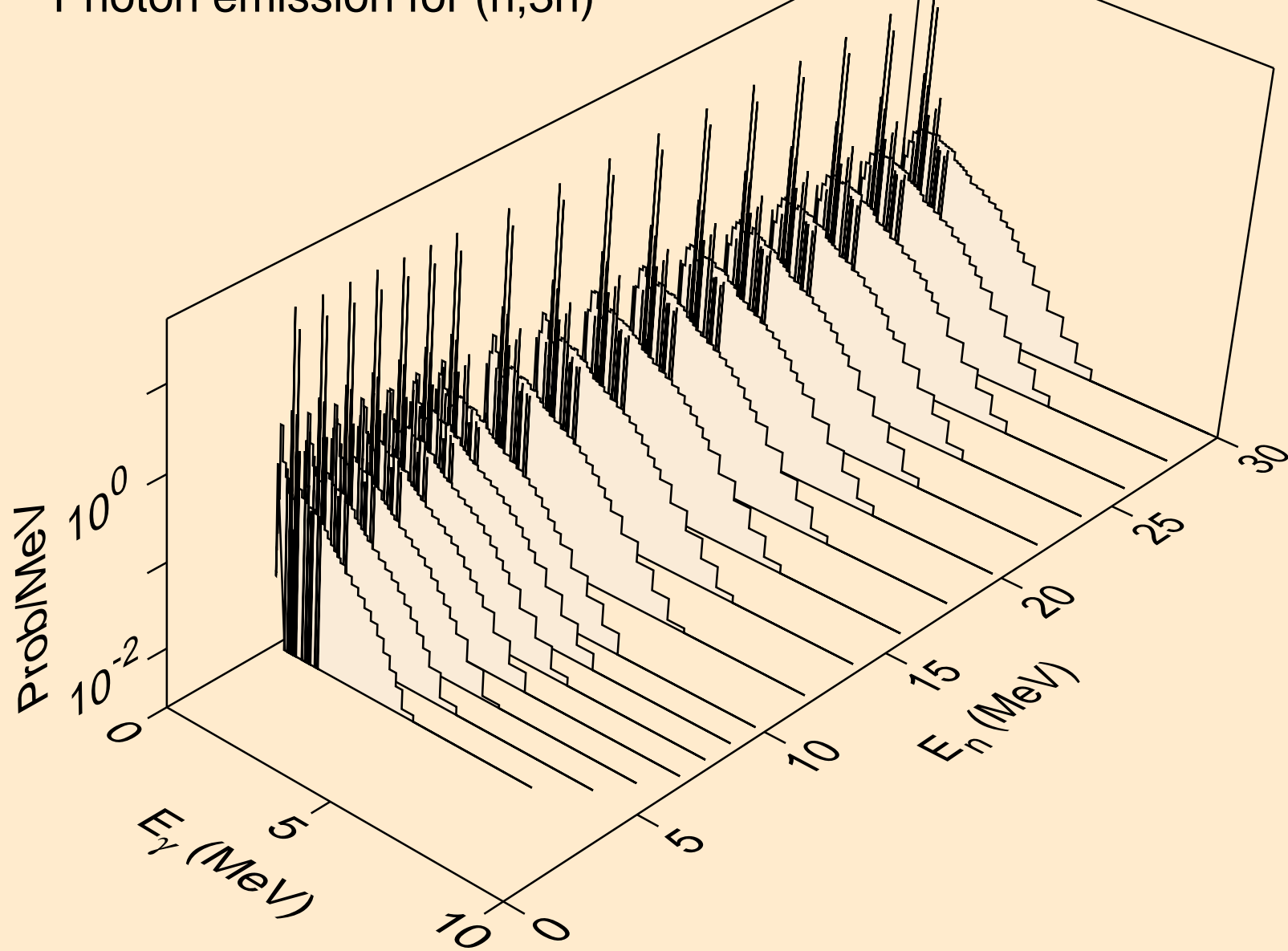
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Photon emission for (n,2nd)



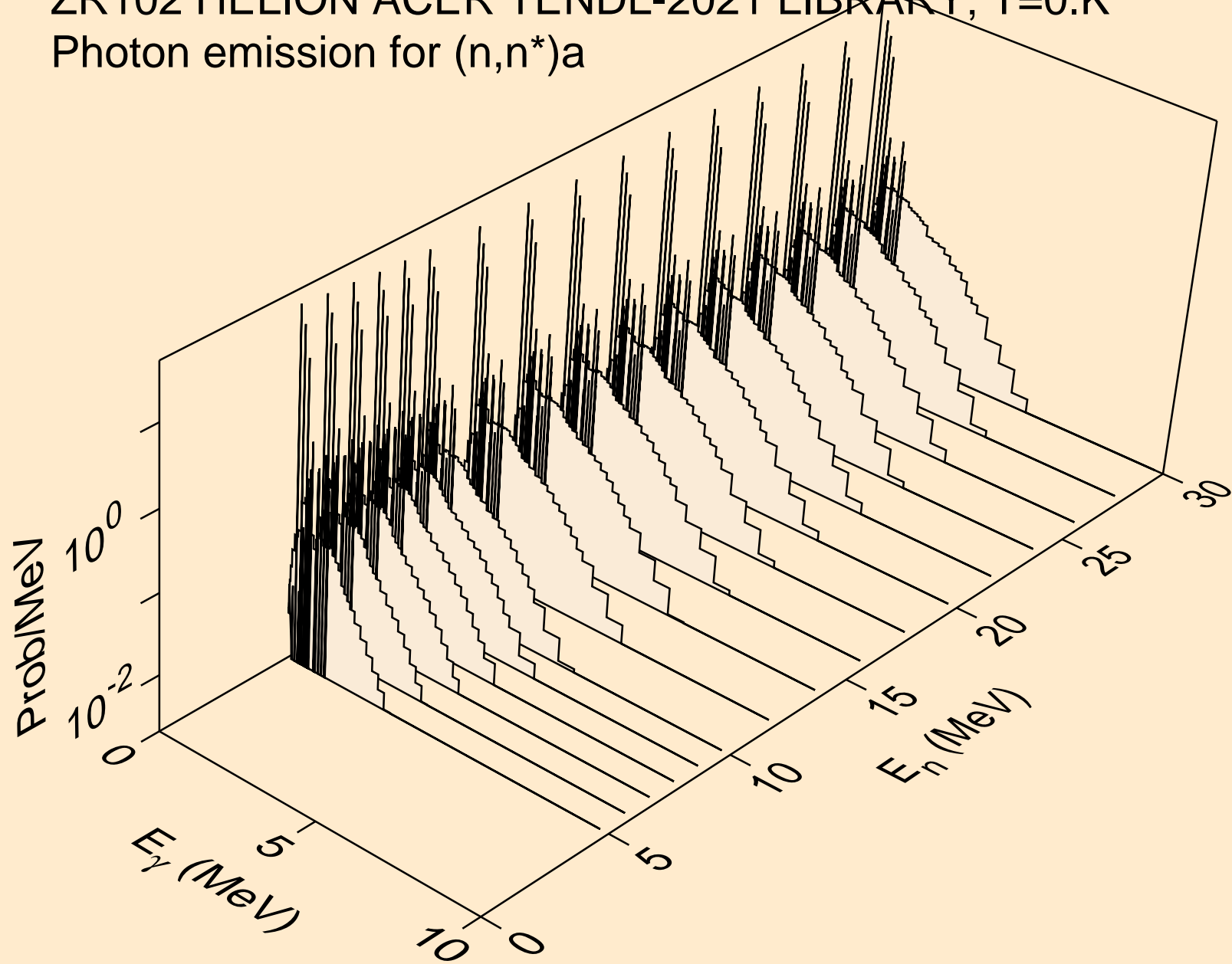
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Photon emission for (n,2n)



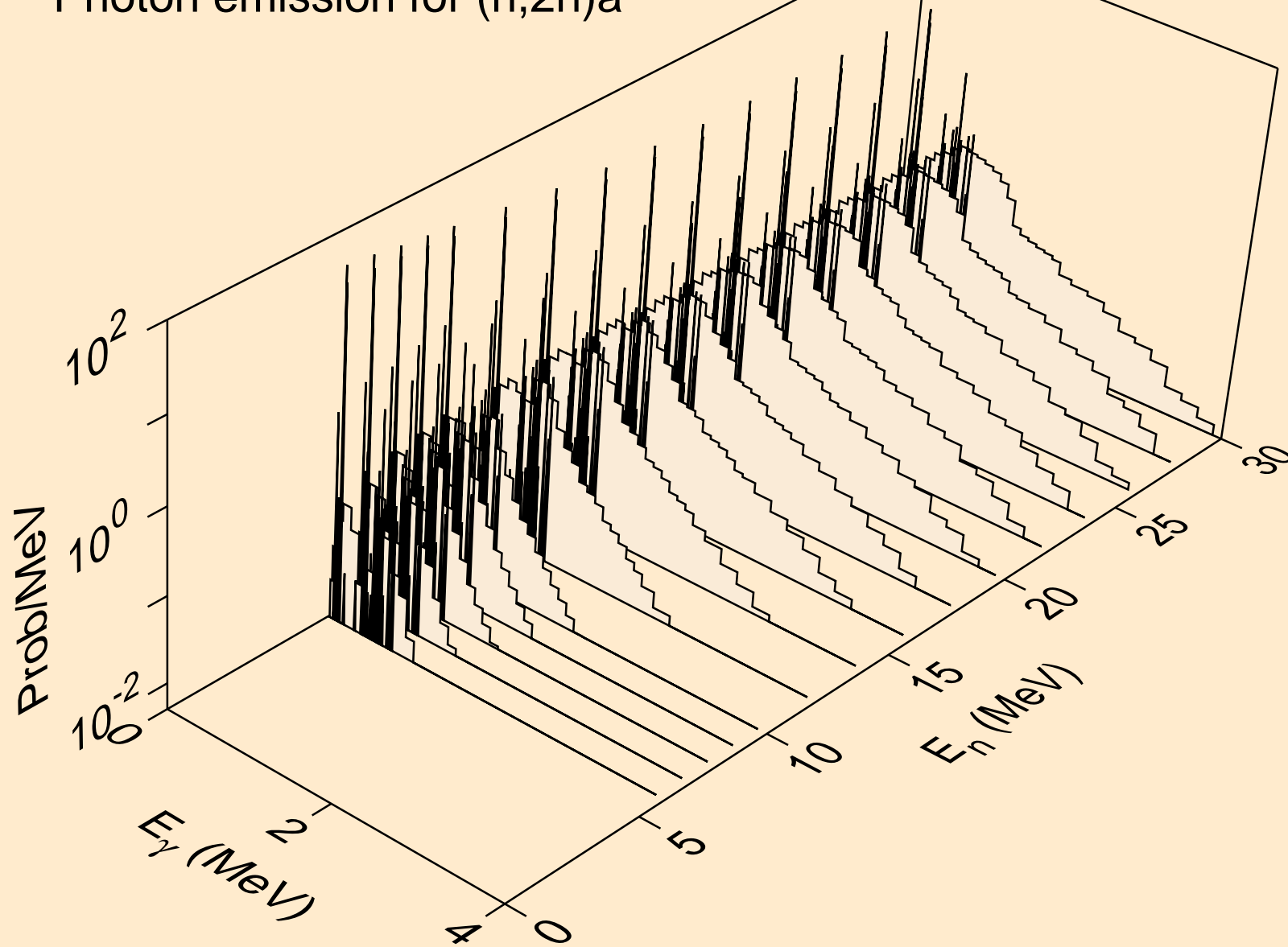
ZR102 HELION ACER TENDL-2021 LIBRARY; T=0.K  
Photon emission for (n,3n)



ZR102 HELION ACER TENDL-2021 LIBRARY; T=0.K  
Photon emission for (n,n\*)a

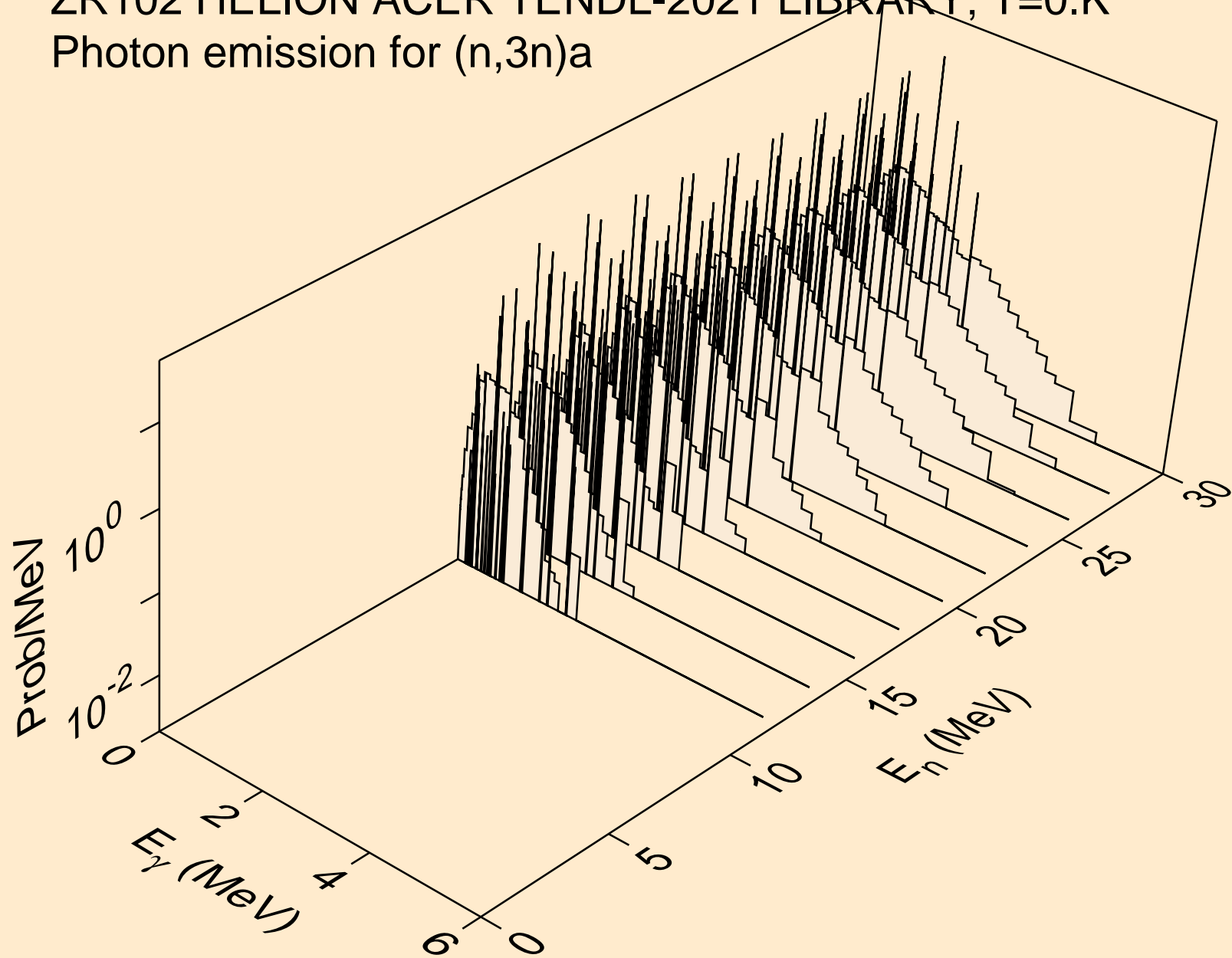


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Photon emission for (n,2n)a

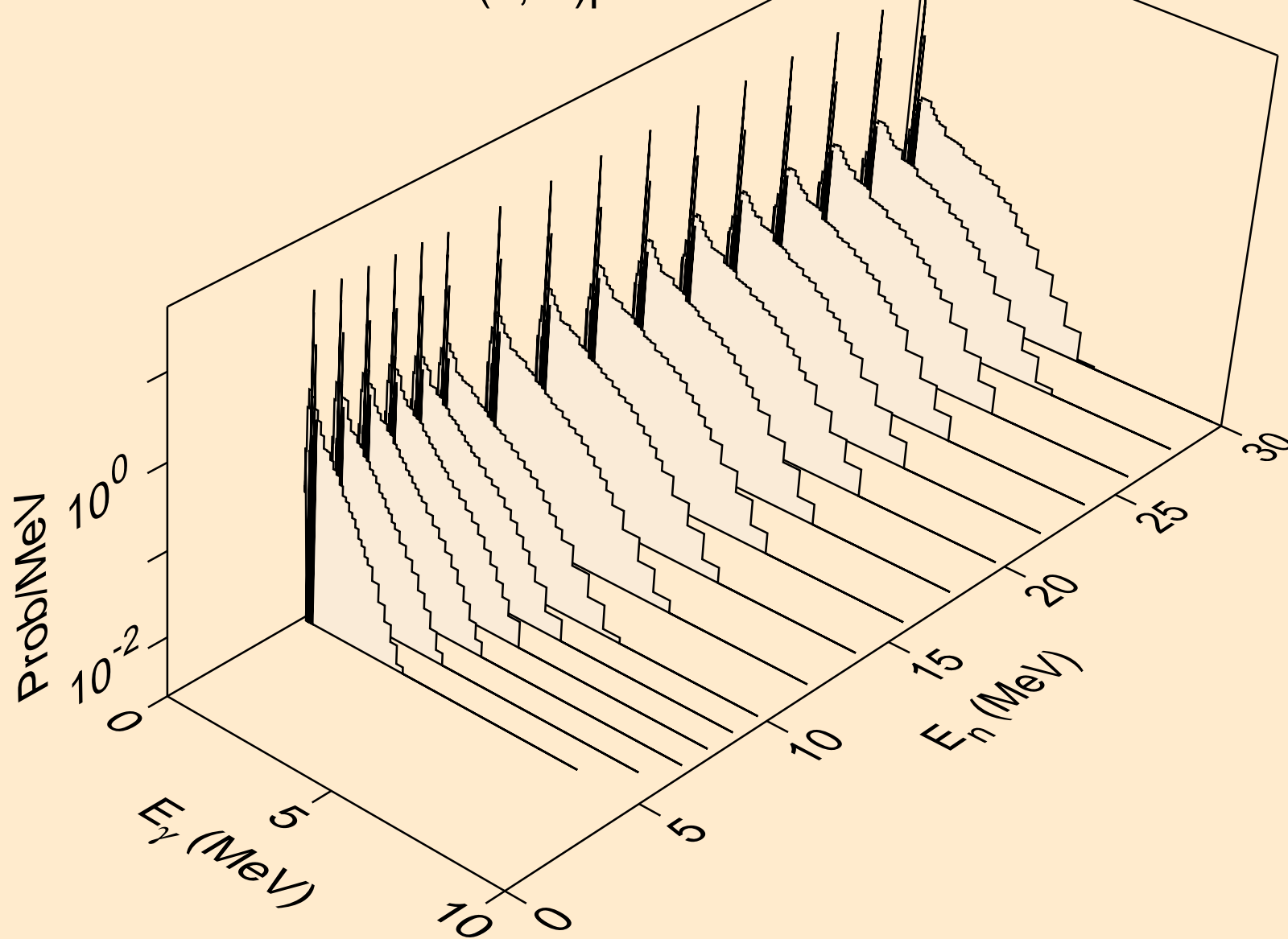




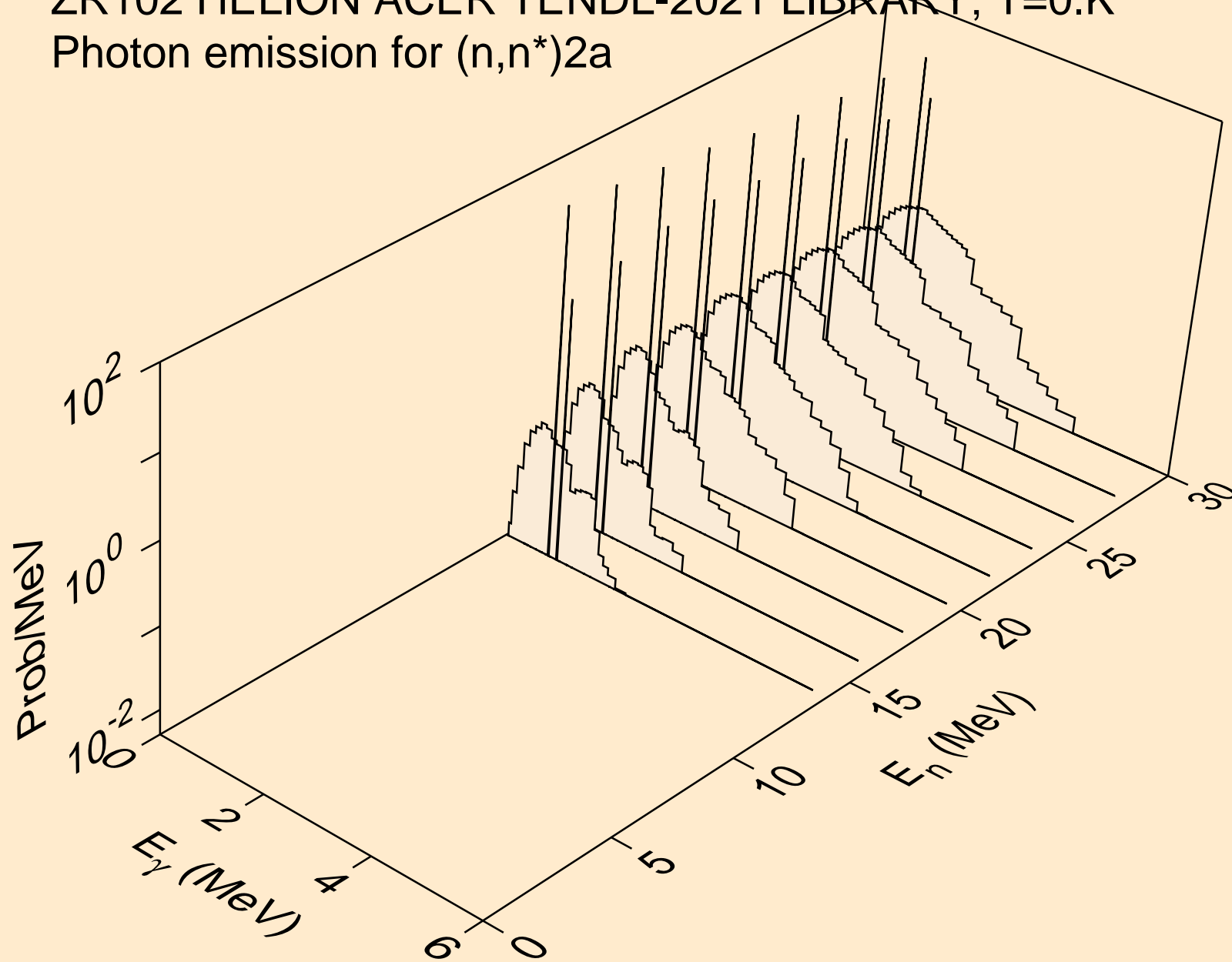
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Photon emission for (n,3n)a



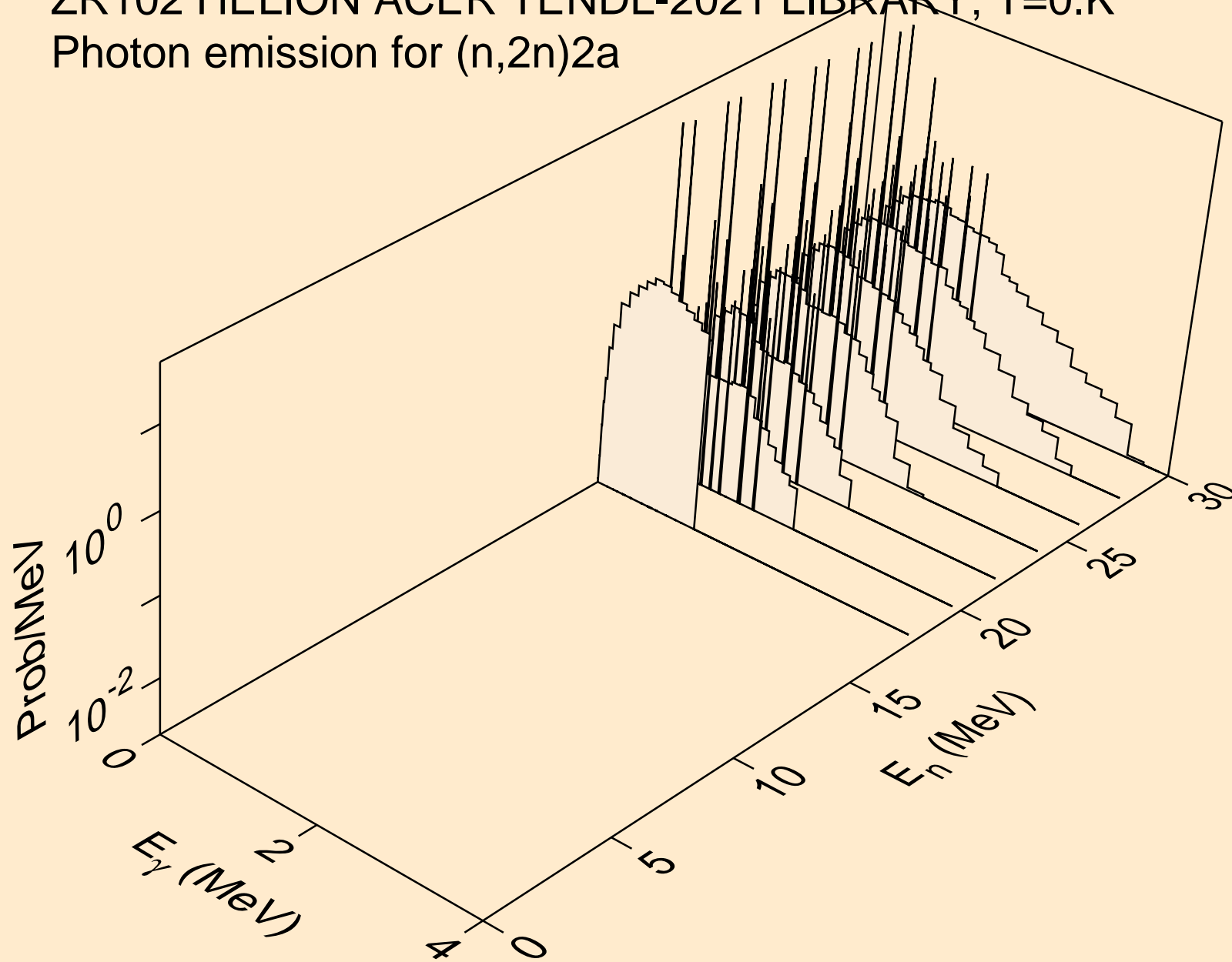
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Photon emission for (n,n\*)p



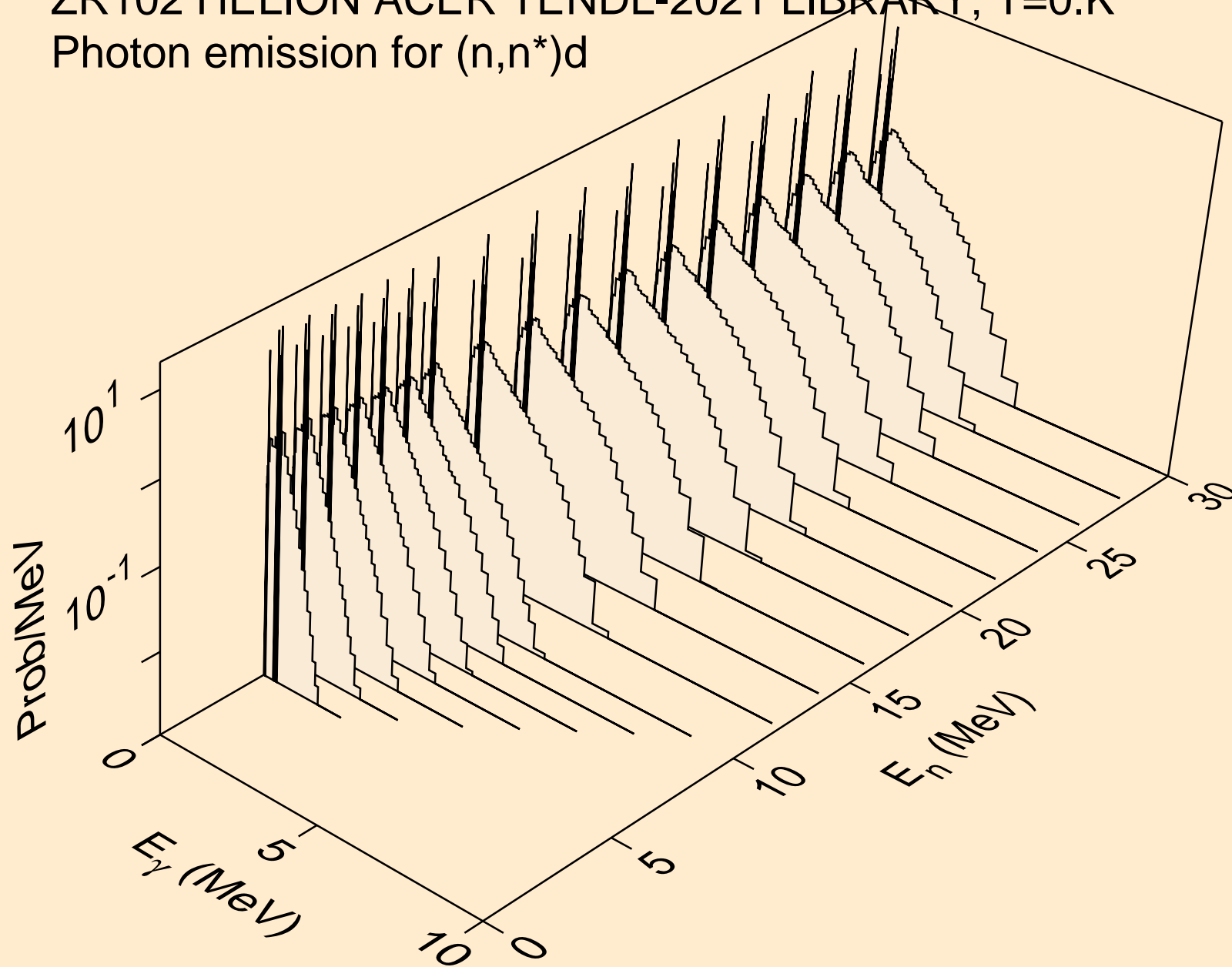
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Photon emission for (n,n\*)2a



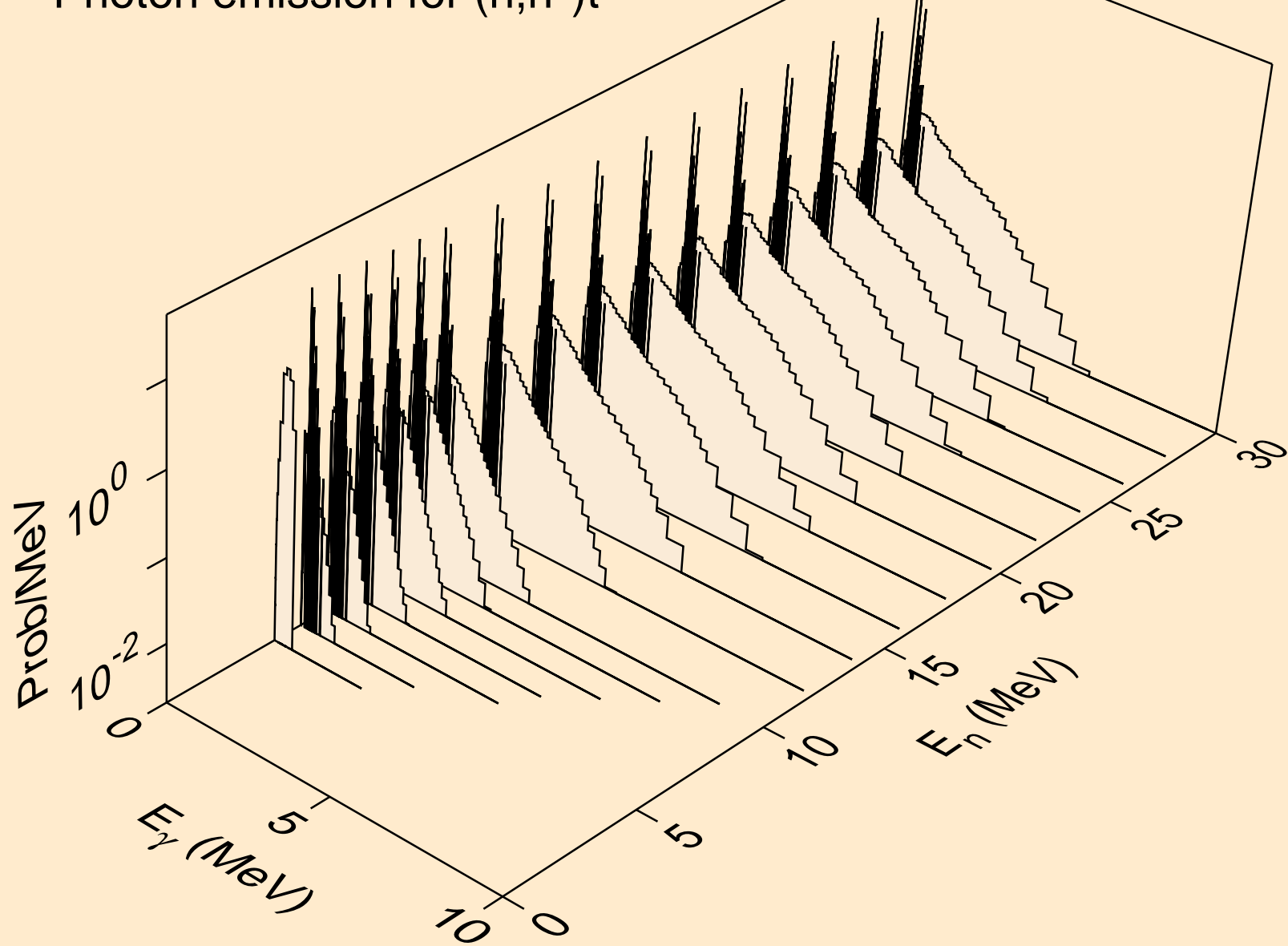
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Photon emission for (n,2n)2a



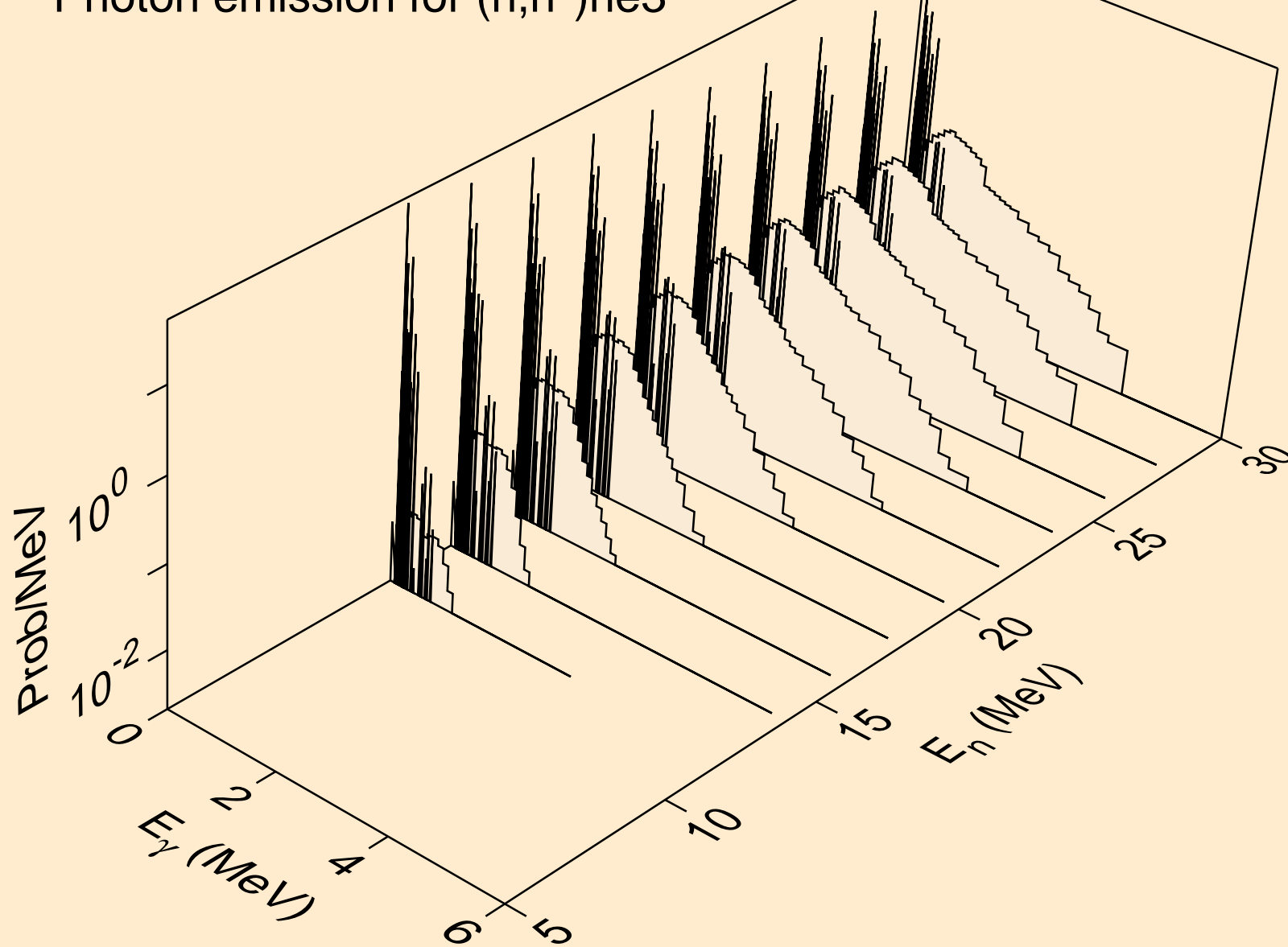
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Photon emission for (n,n\*)d



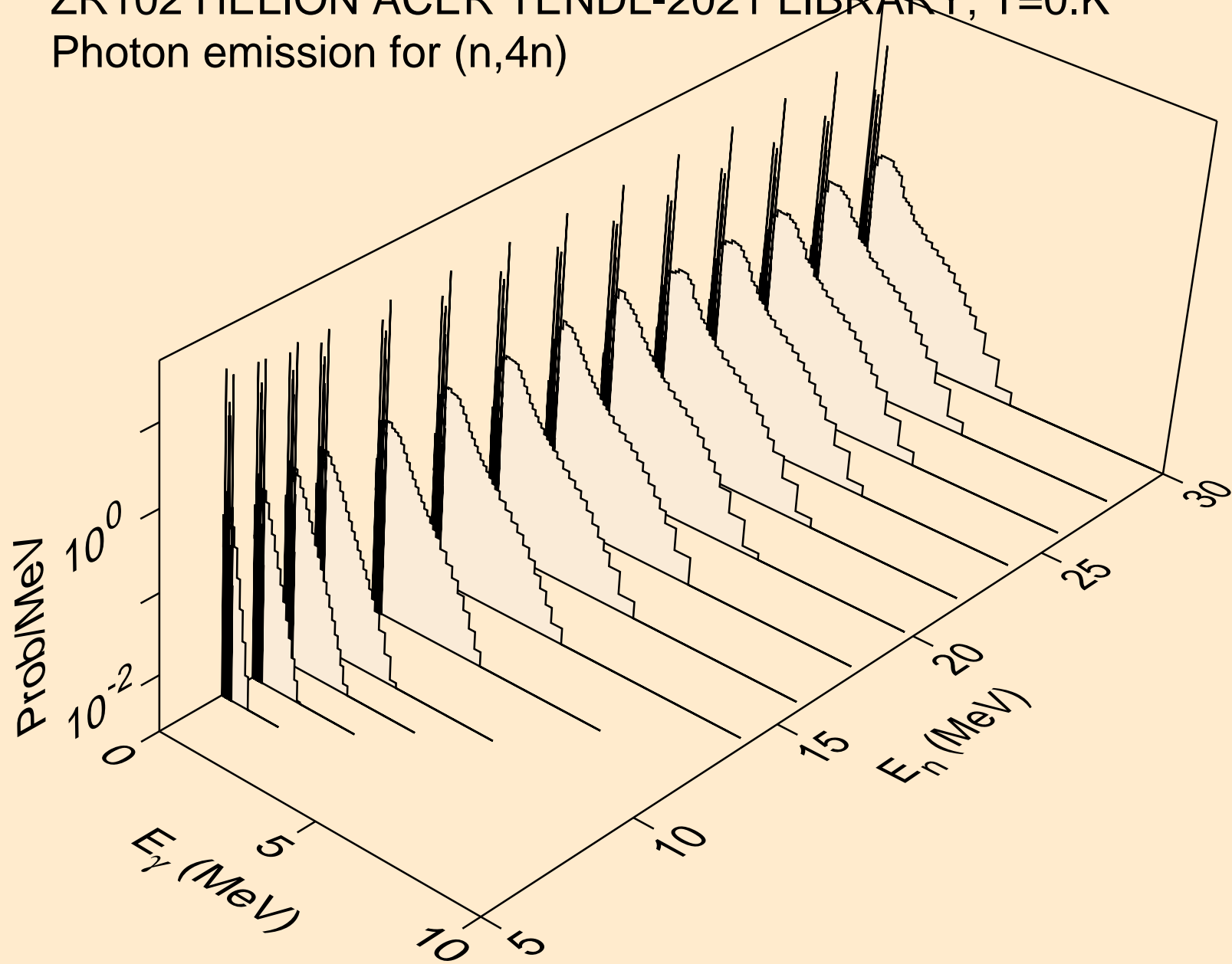
ZR102 HELION ACER TENDL-2021 LIBRARY; T=0.K  
Photon emission for (n,n\*)t



ZR102 HELION ACER TENDL-2021 LIBRARY; T=0.K  
Photon emission for (n,n\*)he3

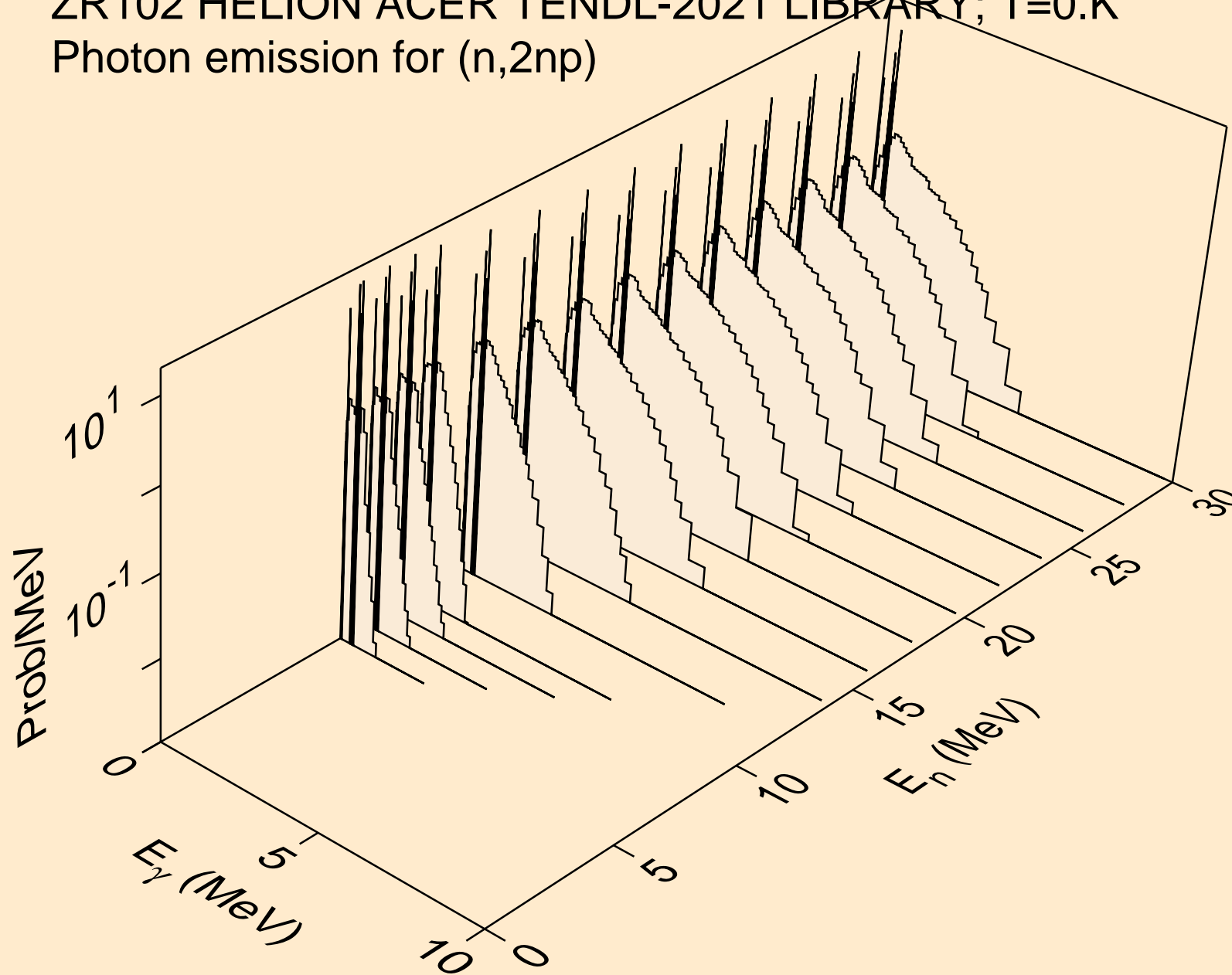


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Photon emission for (n,4n)

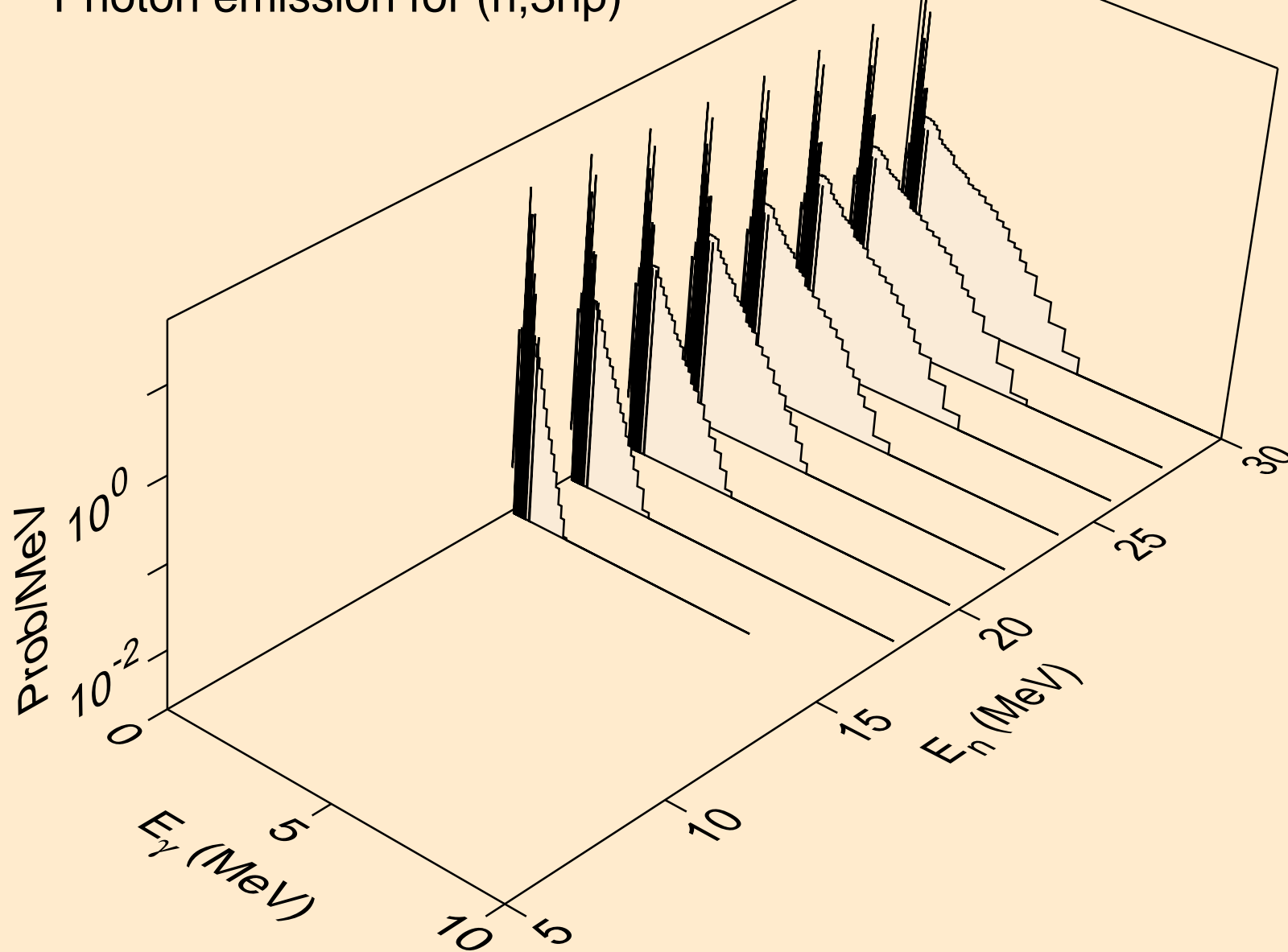




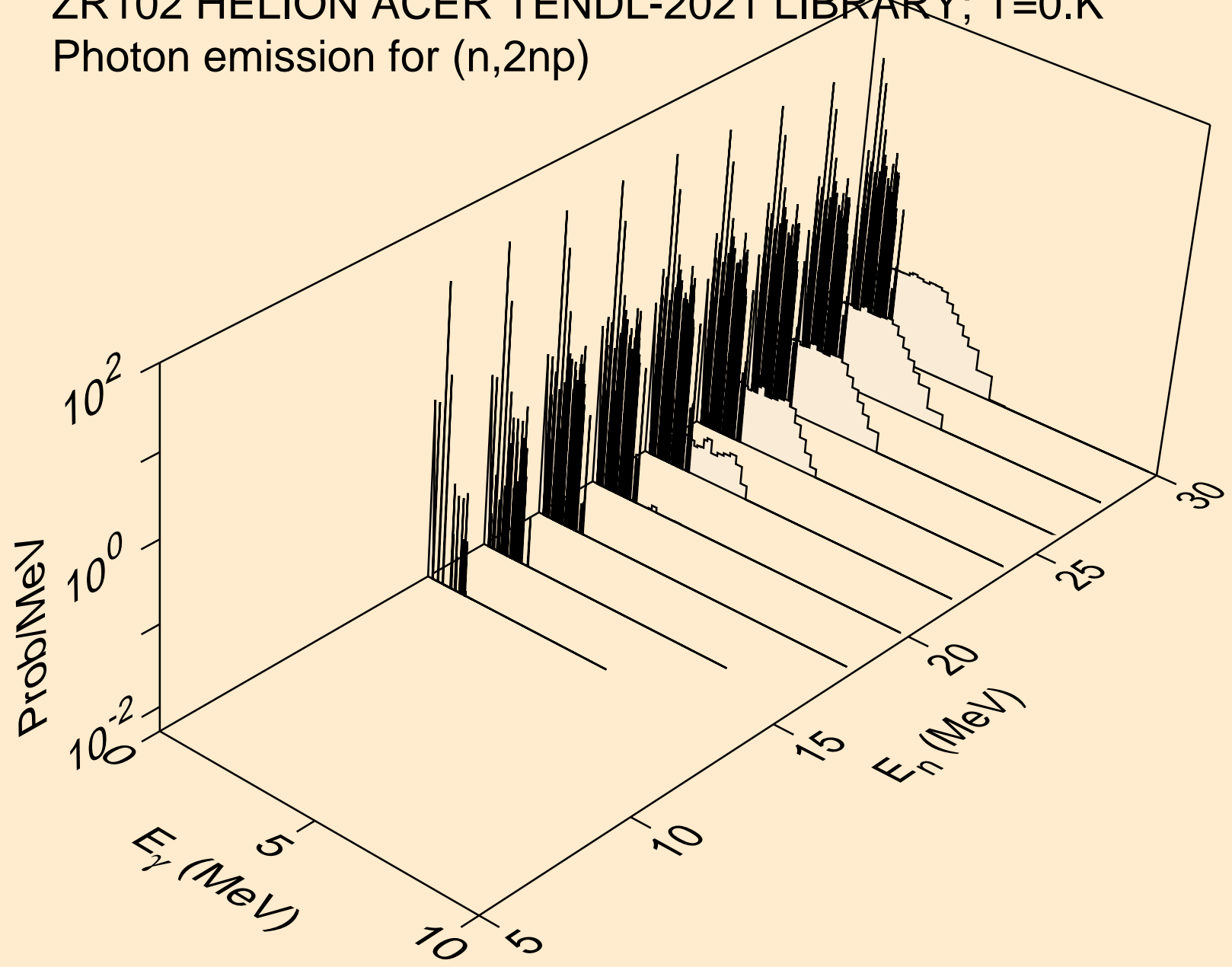
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Photon emission for (n,2np)



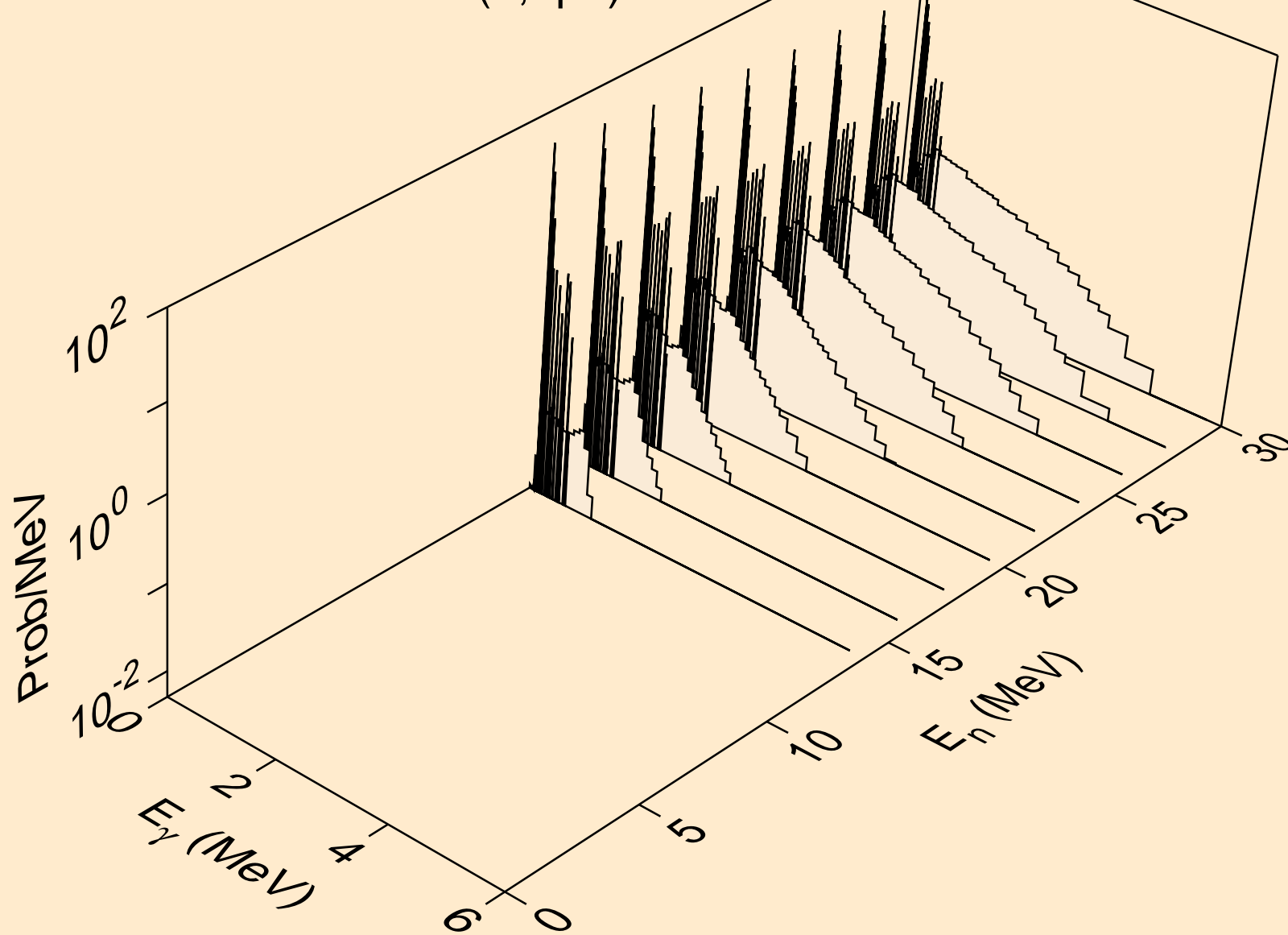
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Photon emission for (n,3np)



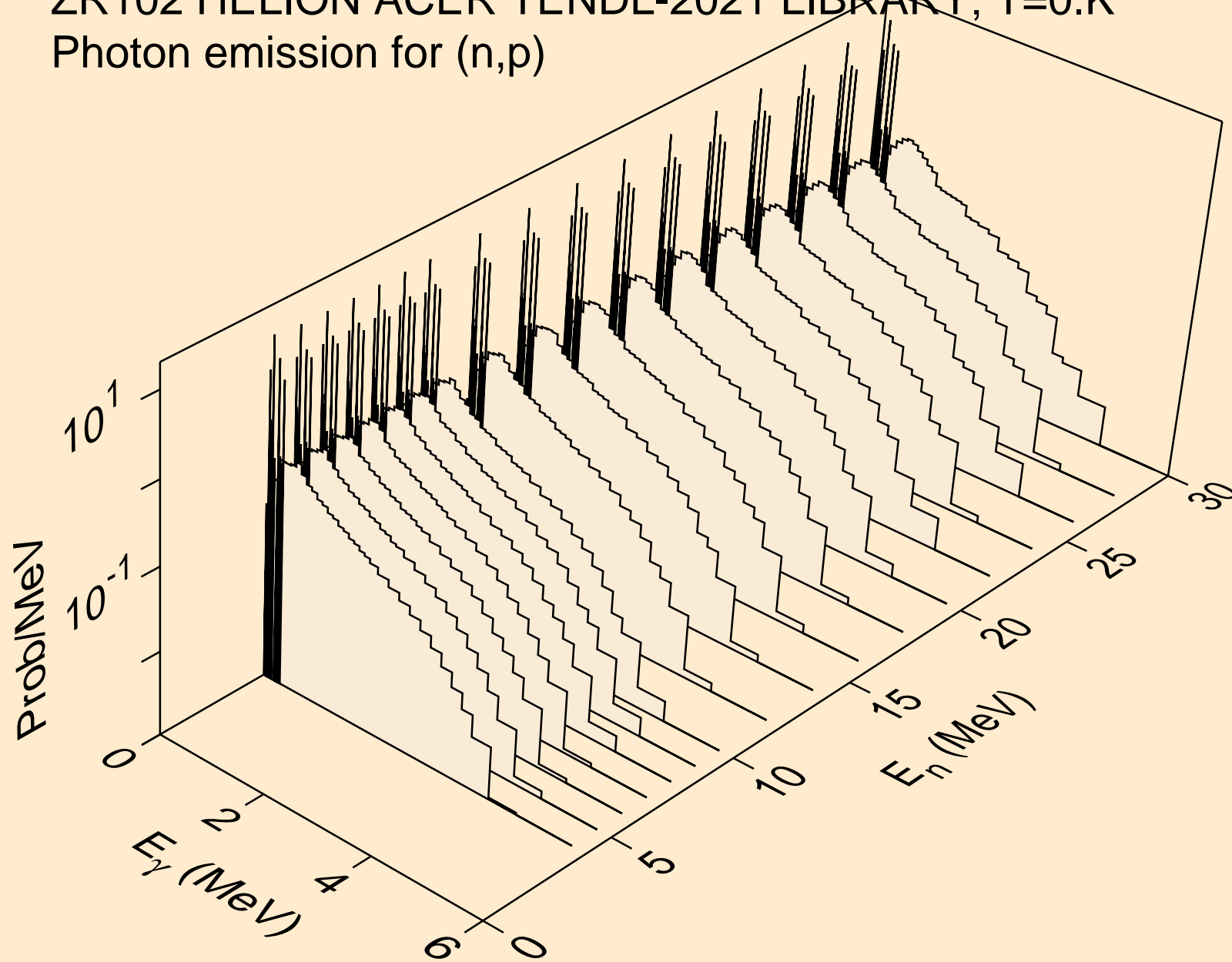
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Photon emission for (n,2np)



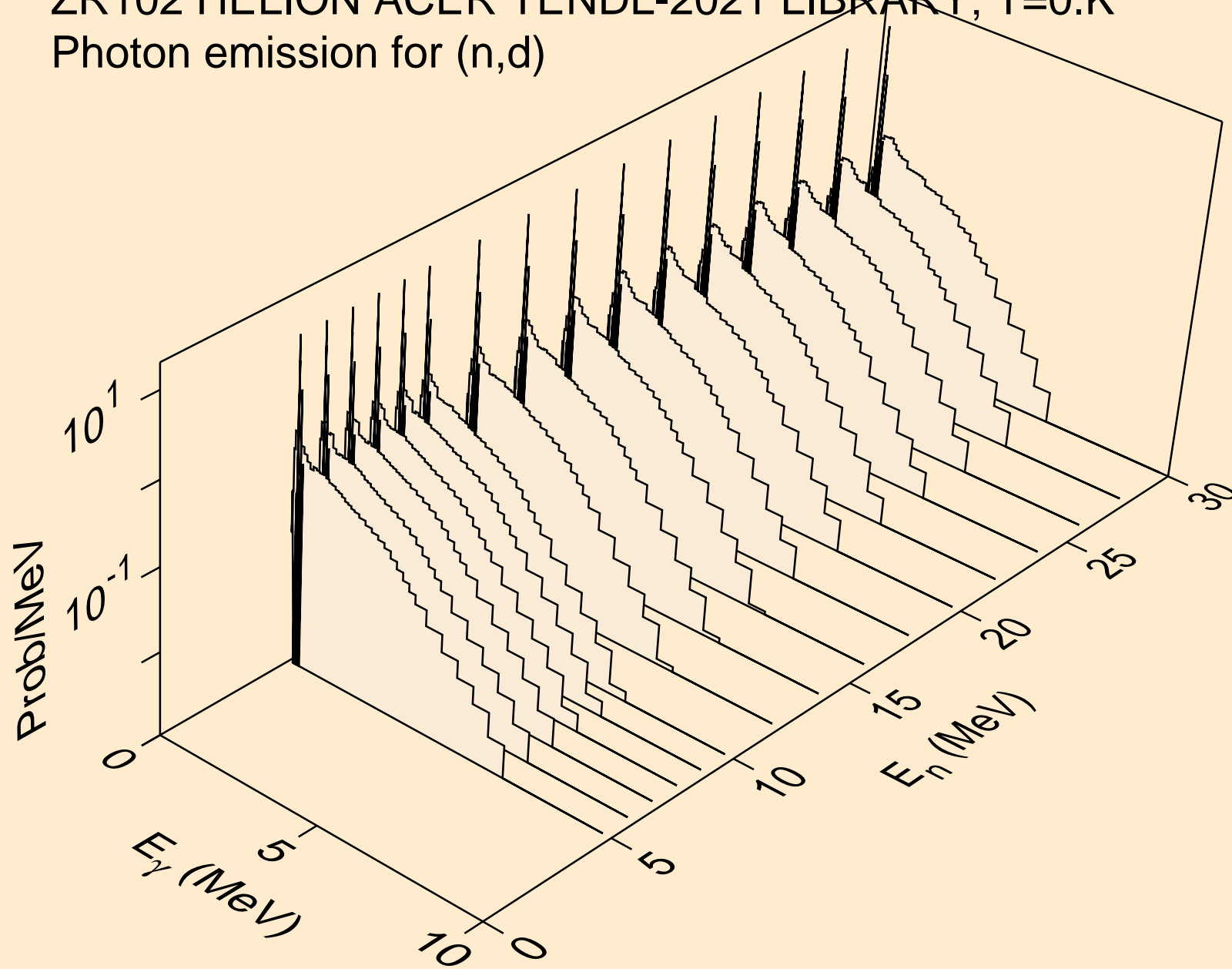
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Photon emission for (n,npa)



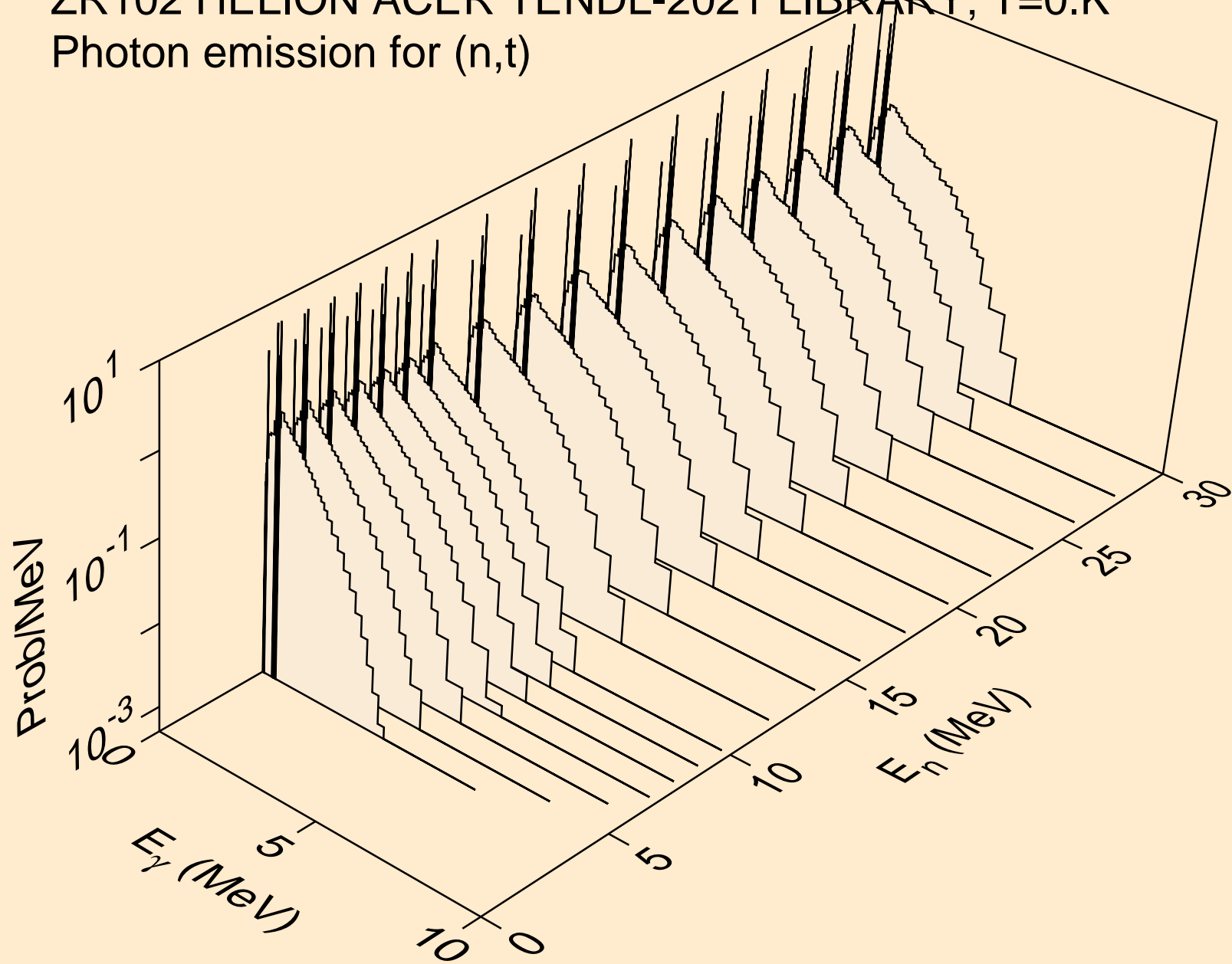
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Photon emission for (n,p)



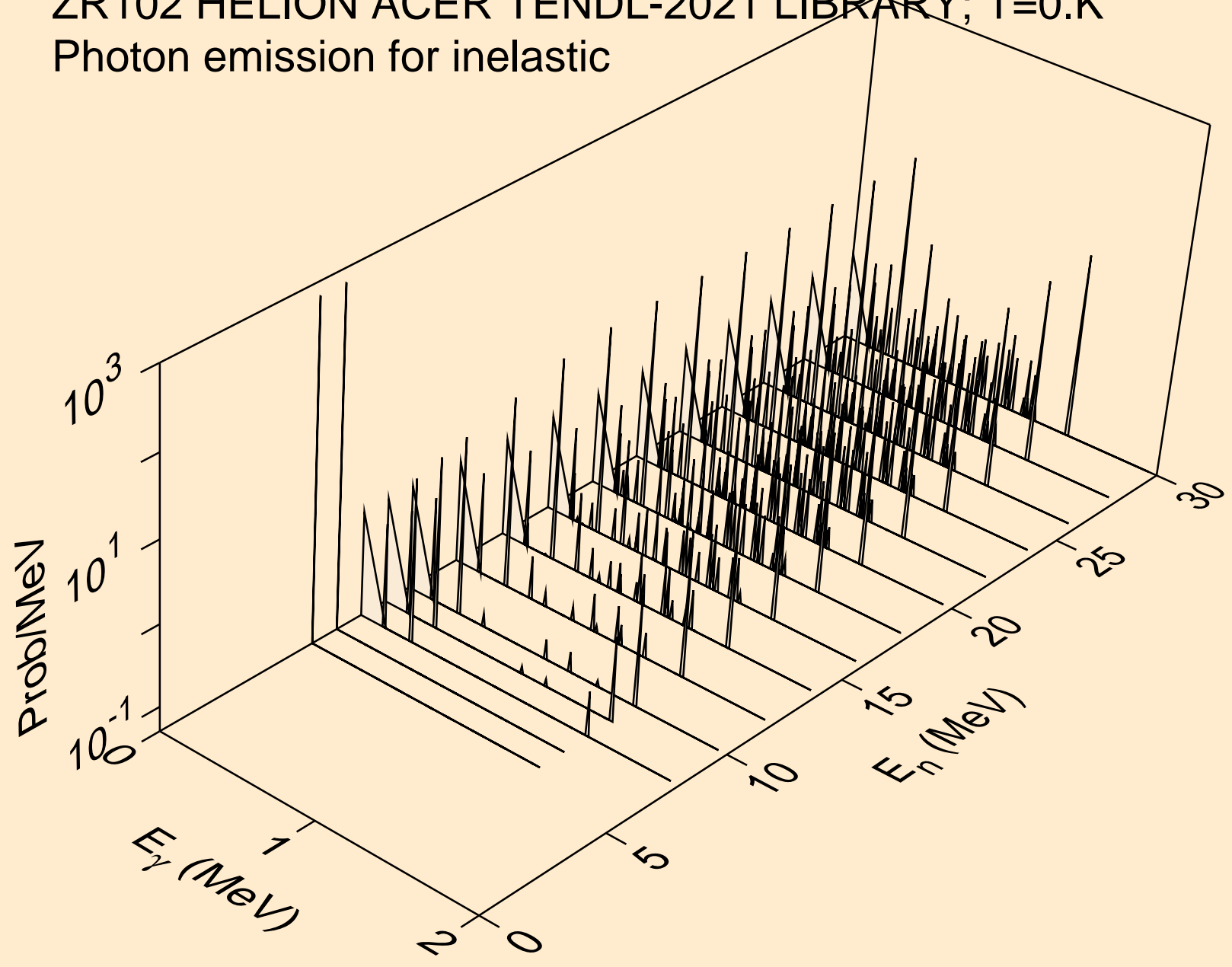
ZR102 HELION ACER TENDL-2021 LIBRARY; T=0.K  
Photon emission for (n,d)



ZR102 HELION ACER TENDL-2021 LIBRARY; T=0.K  
Photon emission for (n,t)

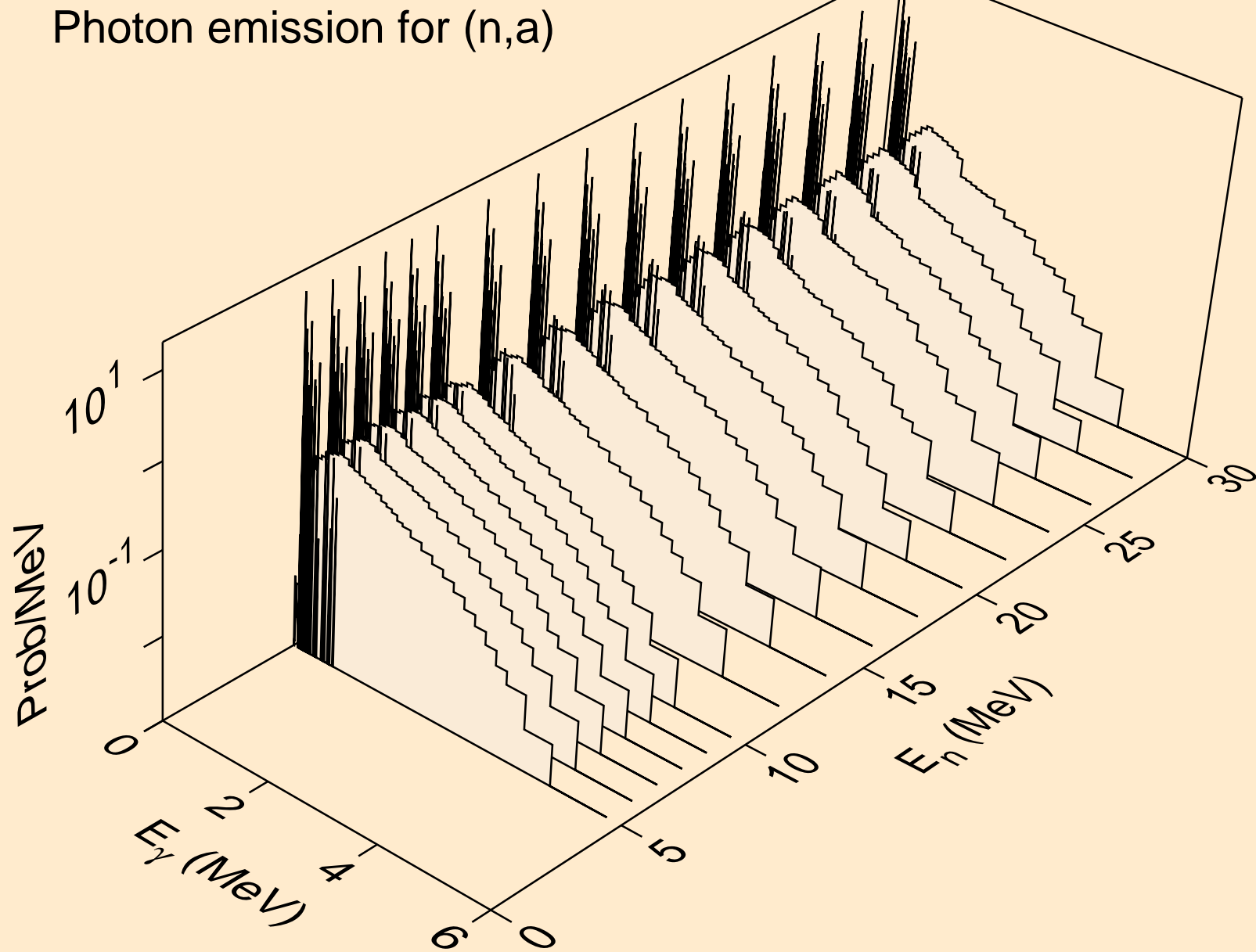


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Photon emission for inelastic

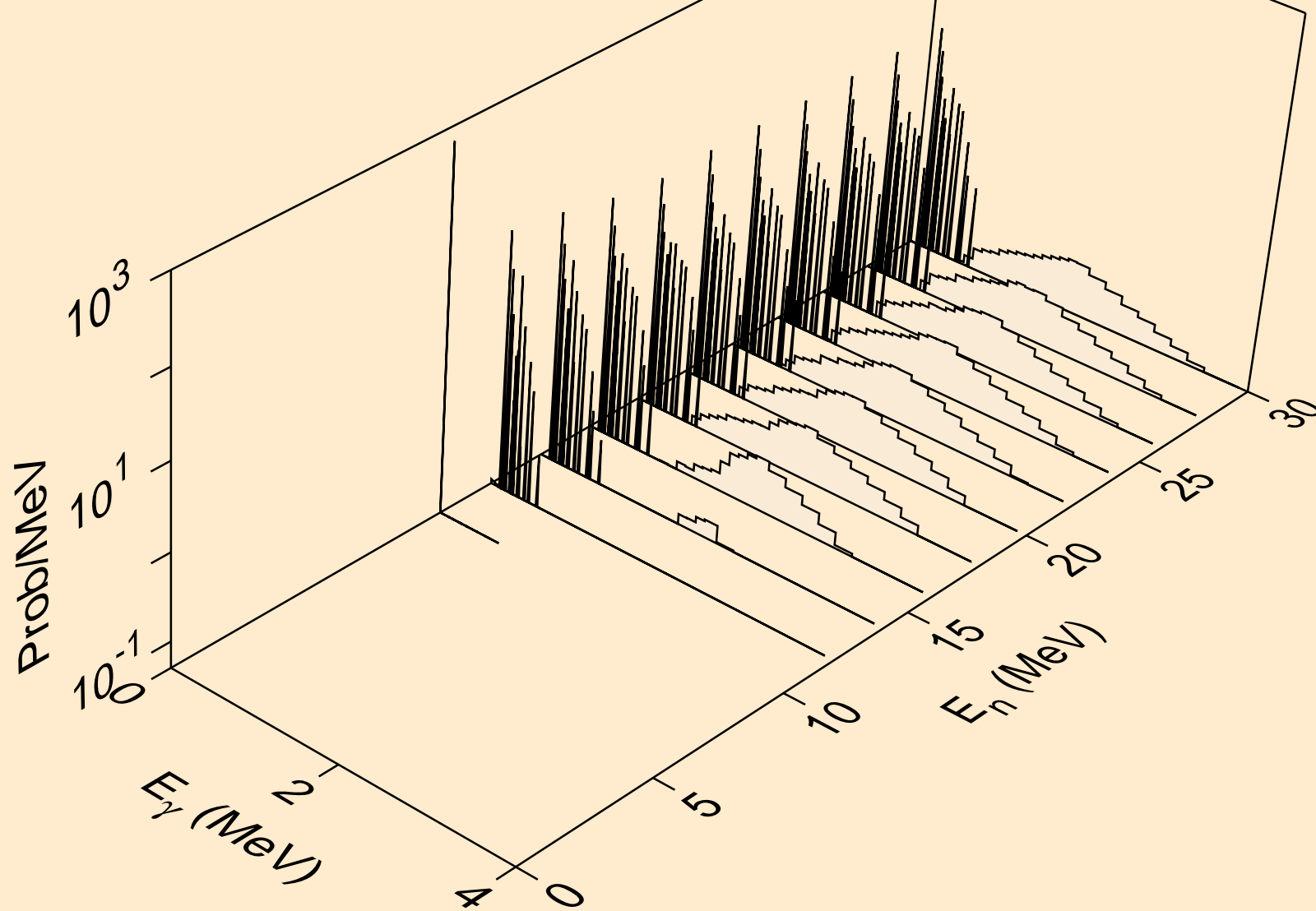




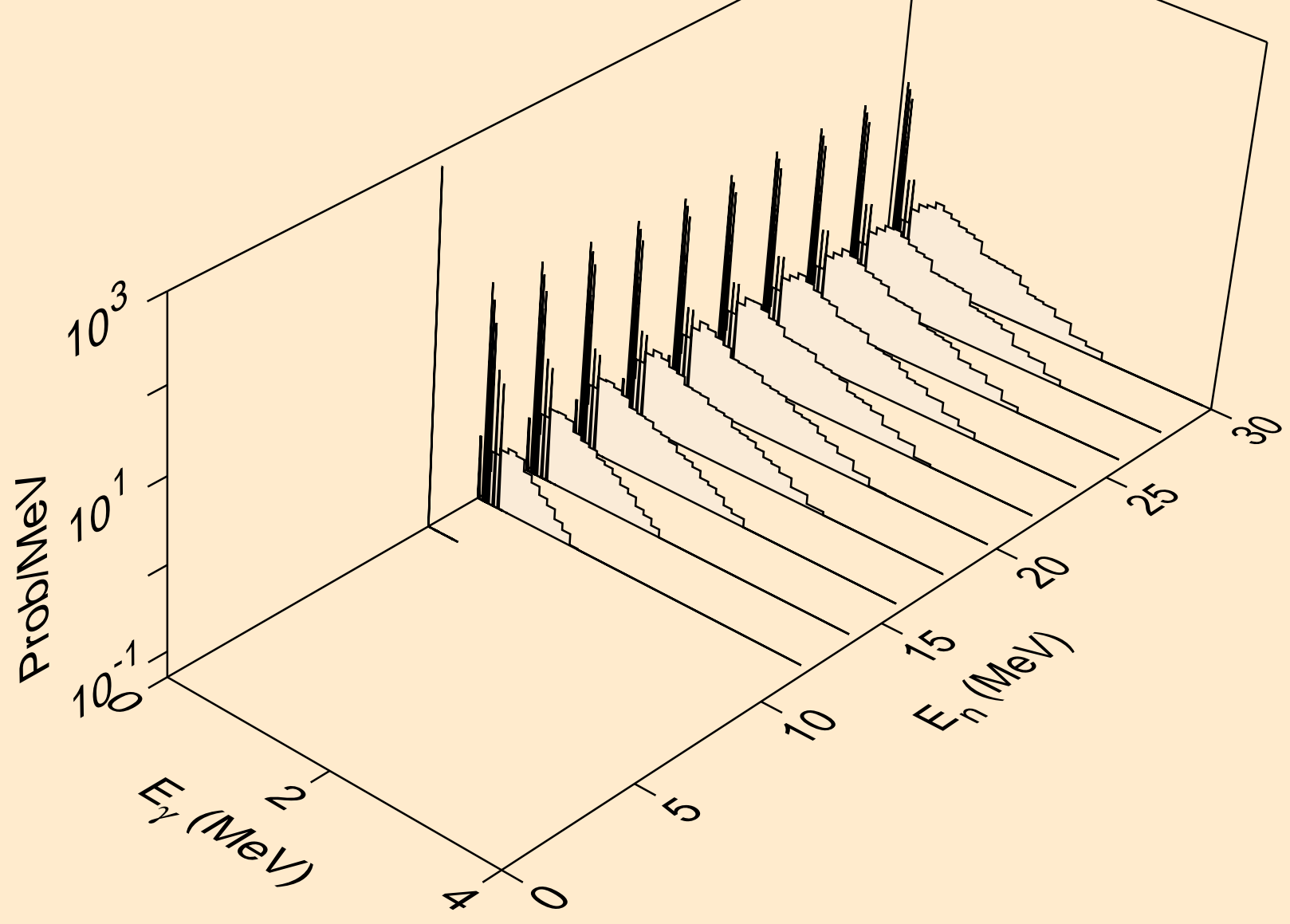
ZR102 HELION ACER TENDL-2021 LIBRARY; T=0.K  
Photon emission for (n,a)



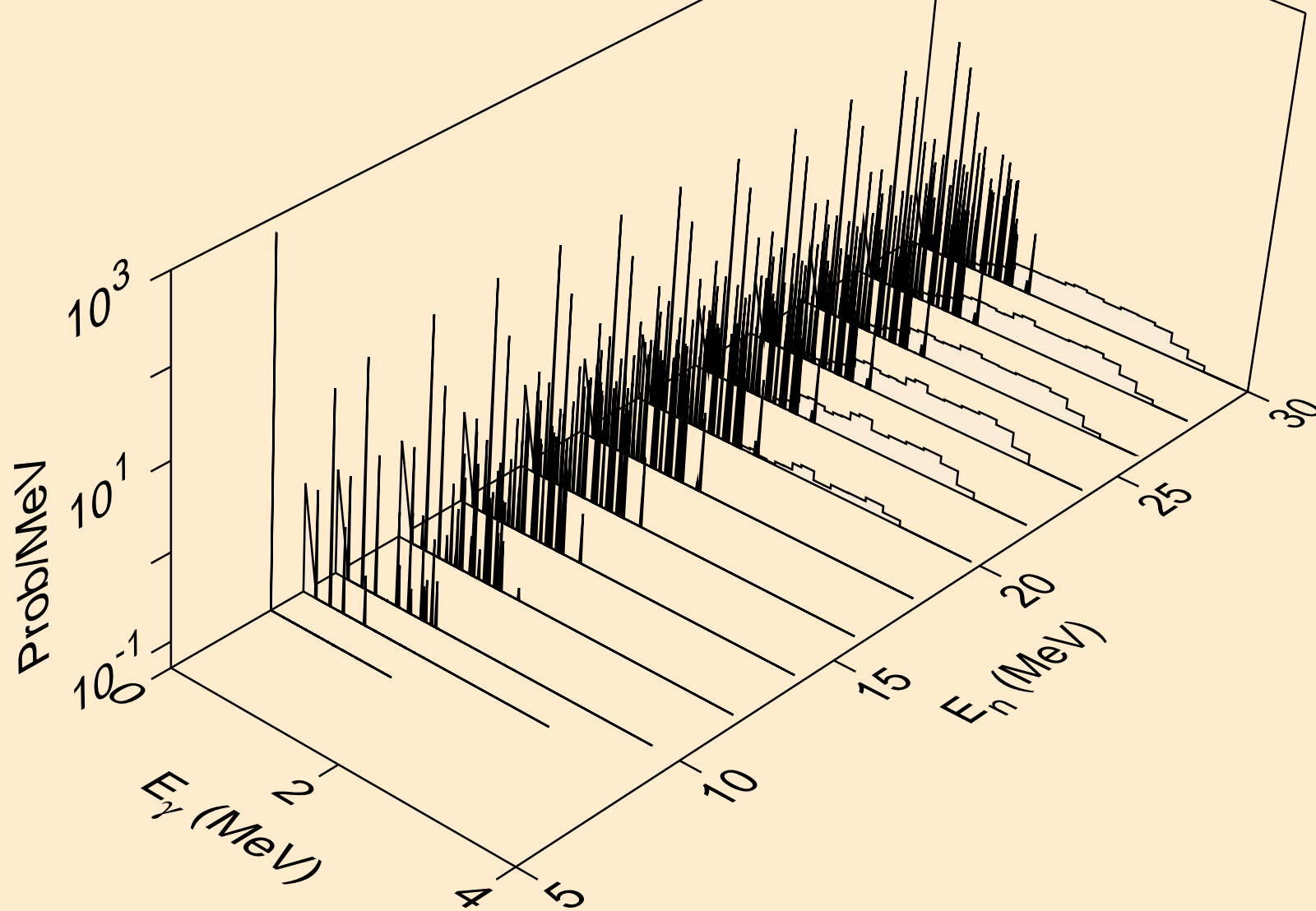
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Photon emission for (n,2p)



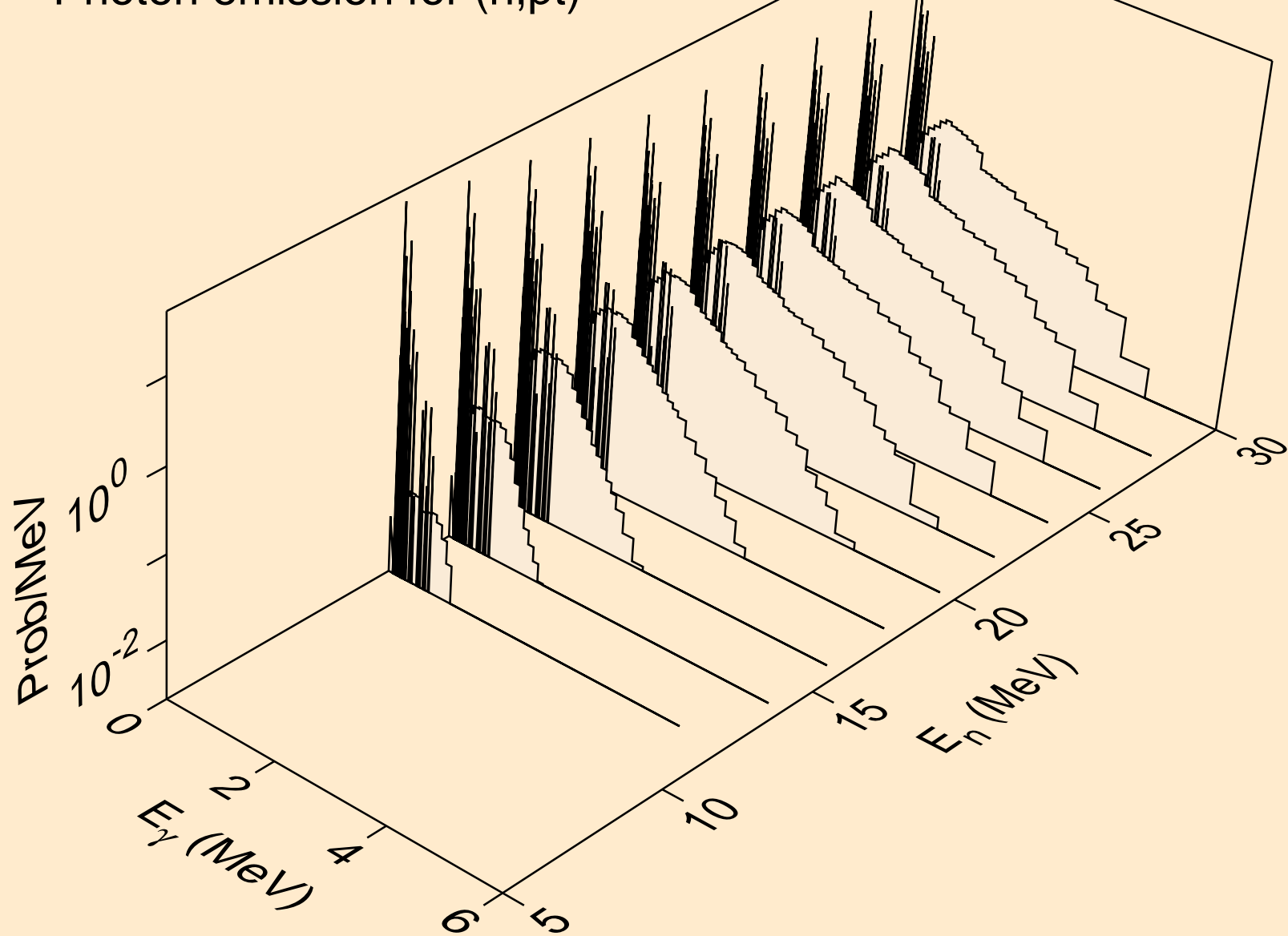
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Photon emission for (n,pa)



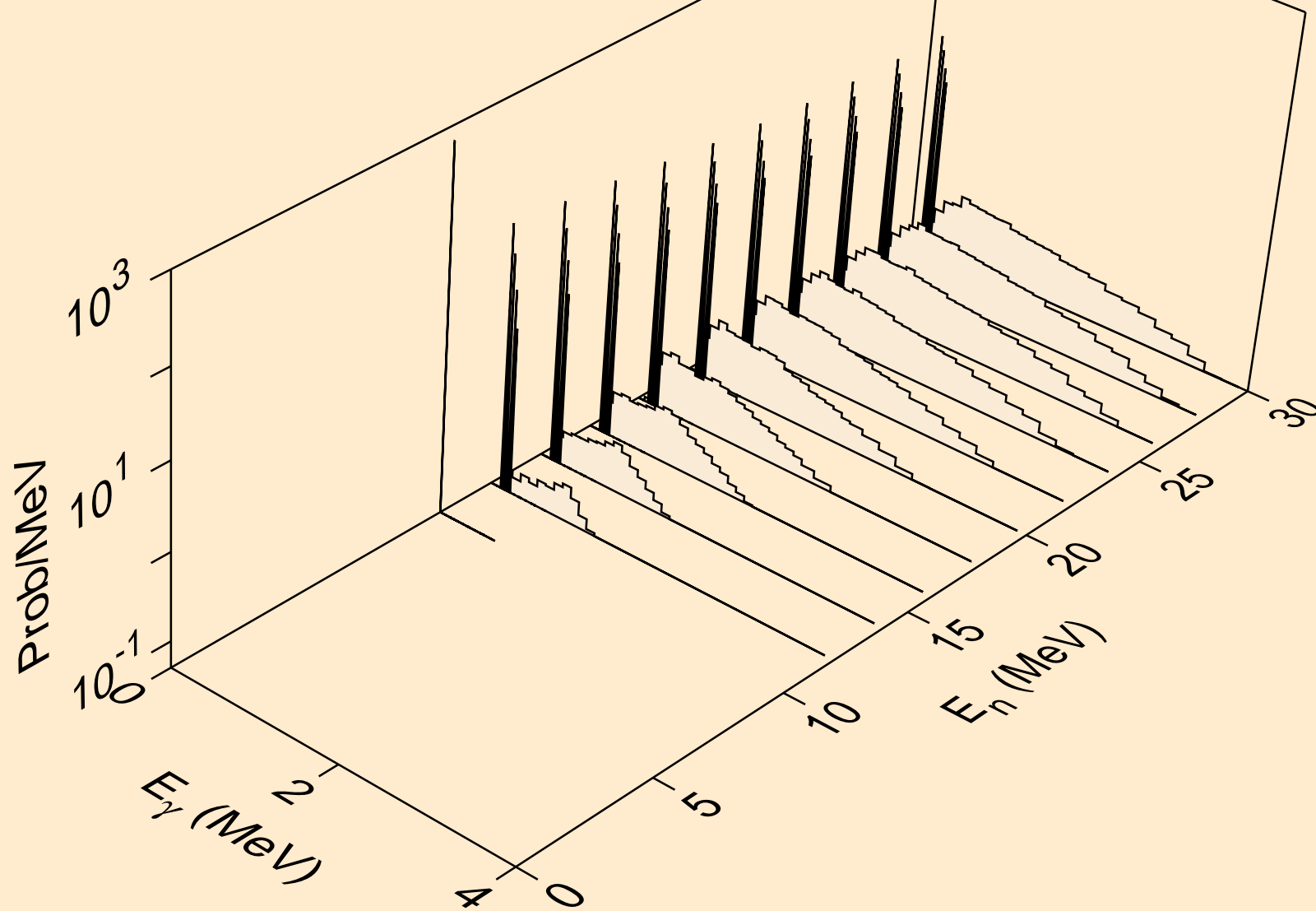
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Photon emission for (n,pd)



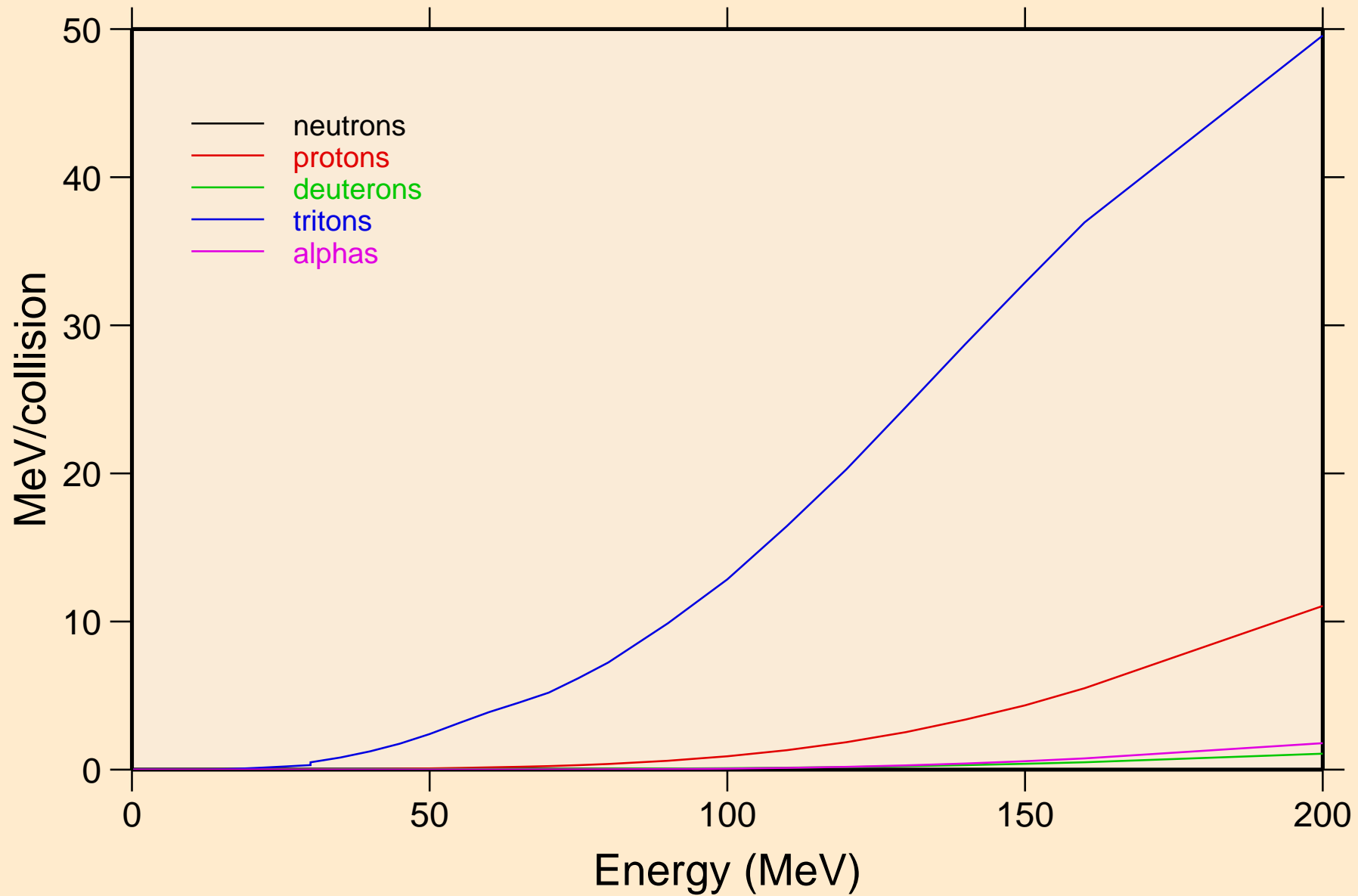
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Photon emission for (n,pt)



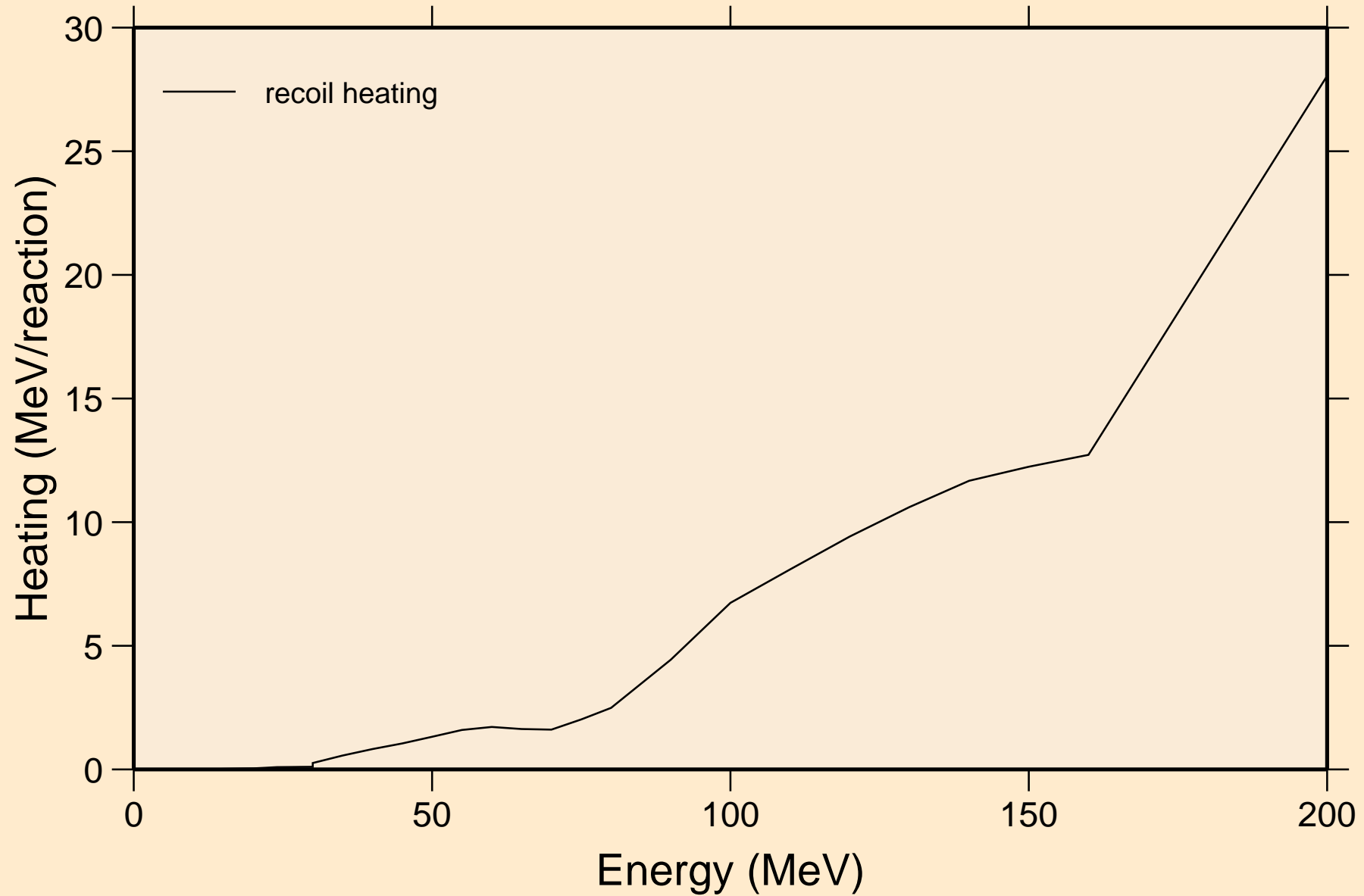
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Photon emission for (n,da)



ZR102 HELION ACER TENDL-2021 LIBRARY; T=0.K  
Particle heating contributions

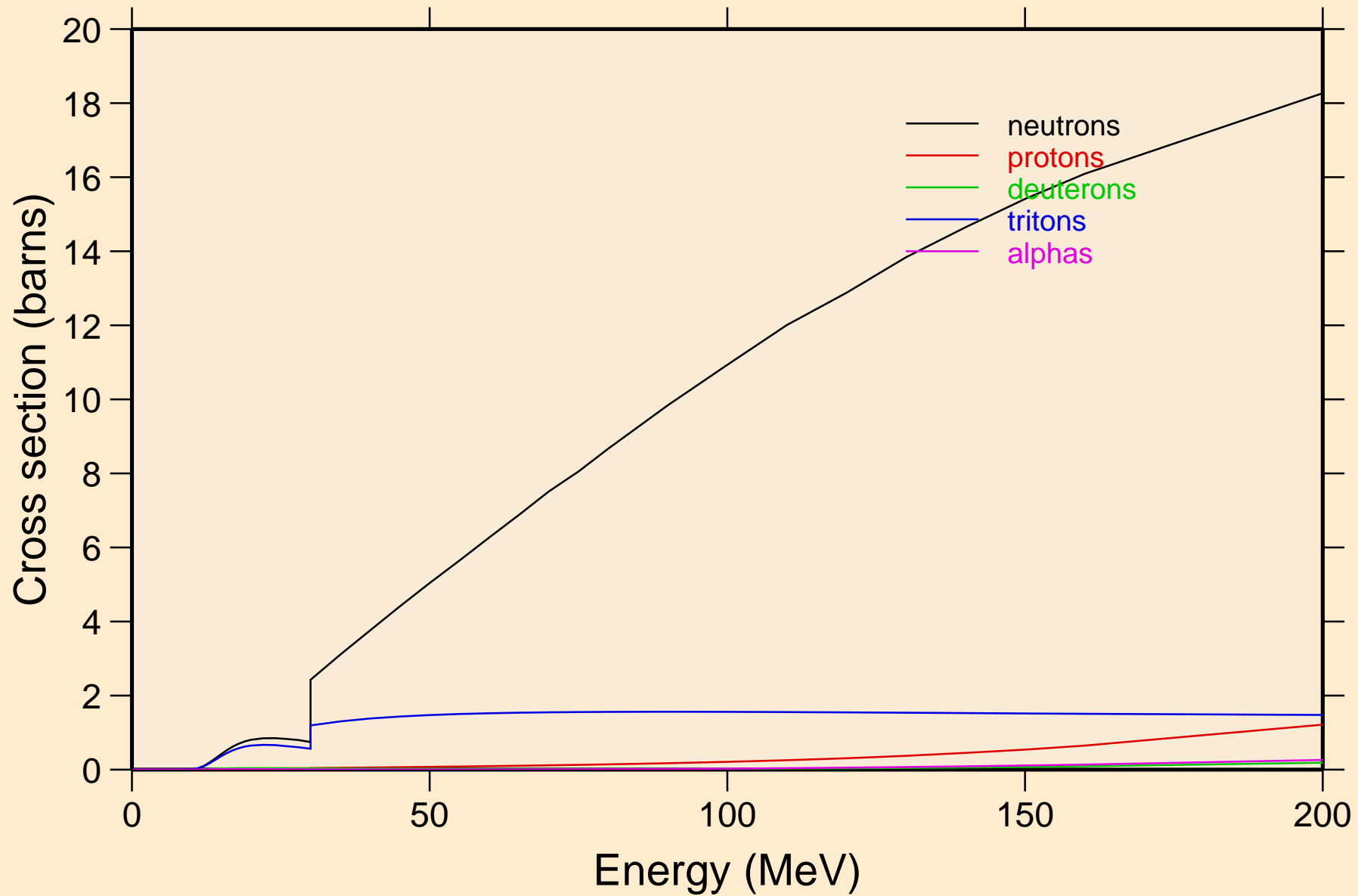


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Recoil Heating

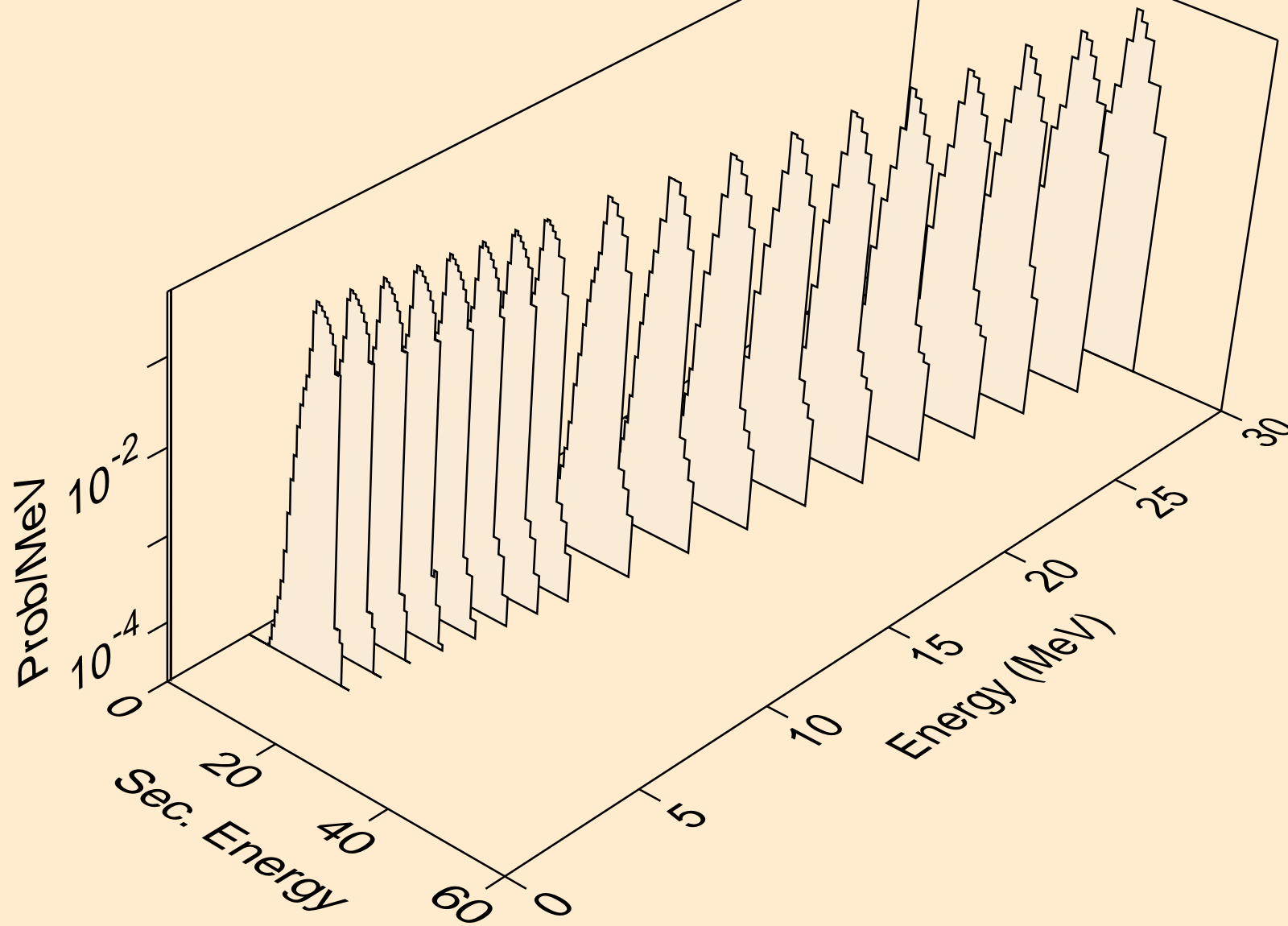




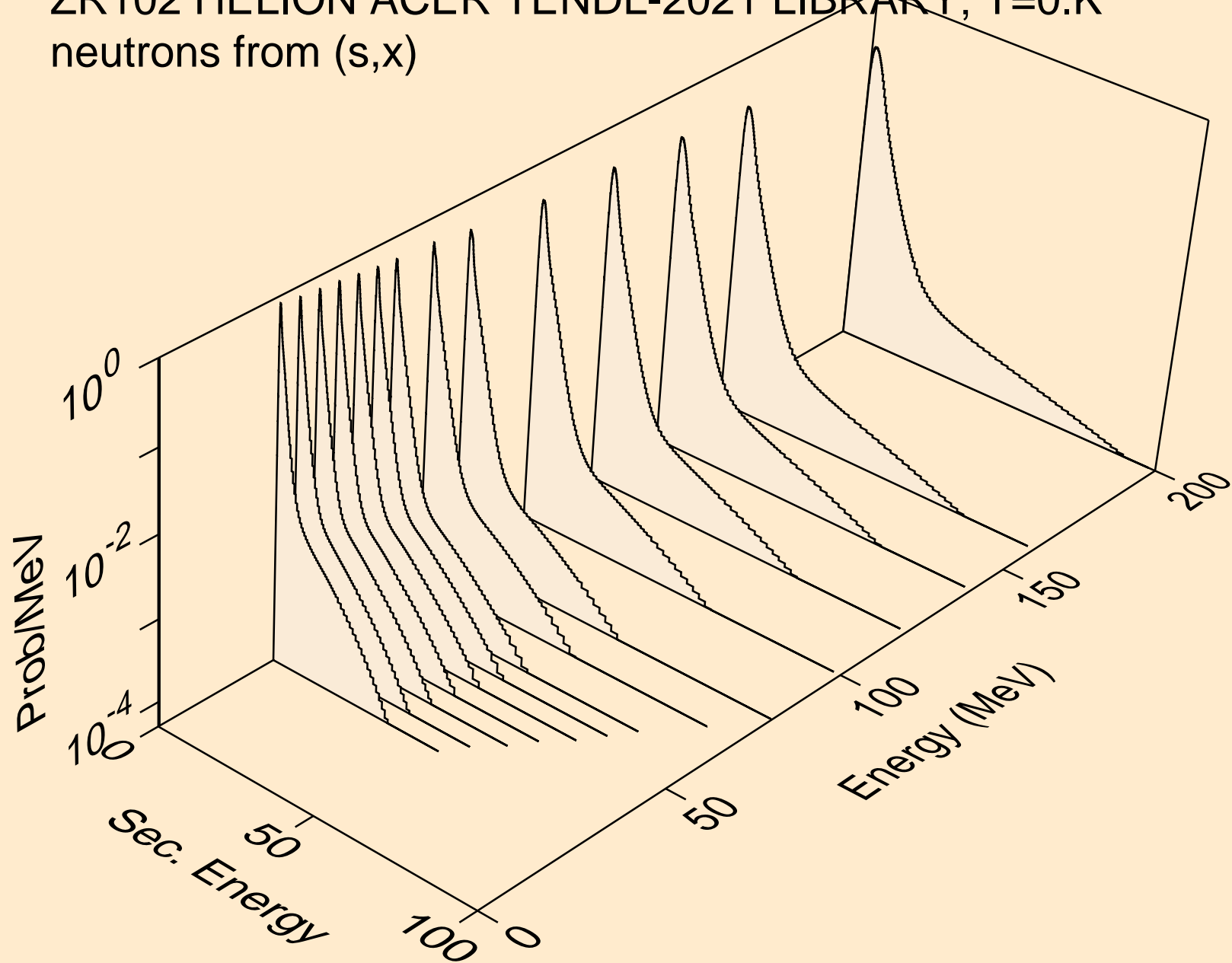
ZR102 HELION ACER TENDL-2021 LIBRARY; T=0.K  
Particle production cross sections



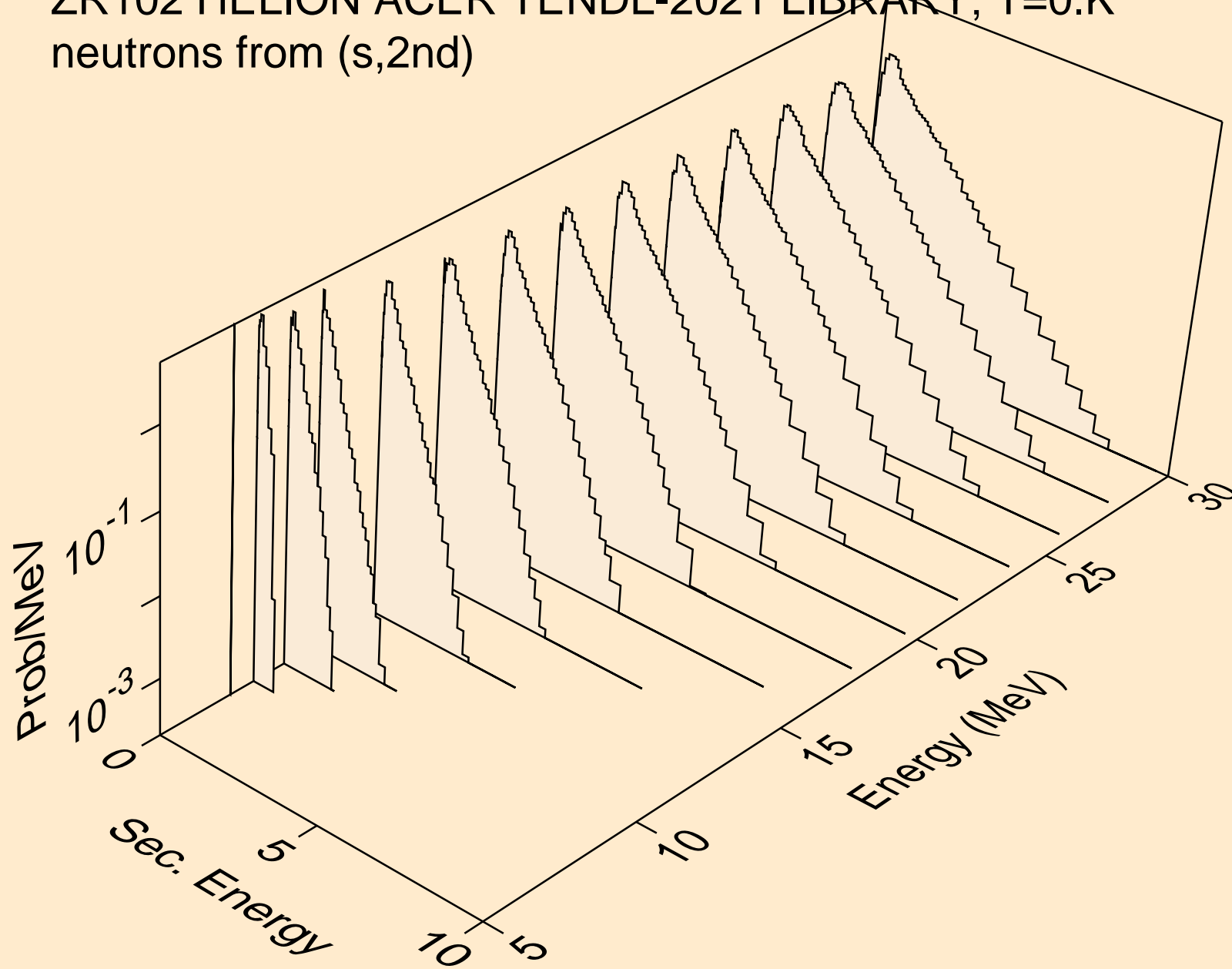
ZR102 HELION ACER TENDL-2021 LIBRARY; T=0.K  
neutrons from (s,n)



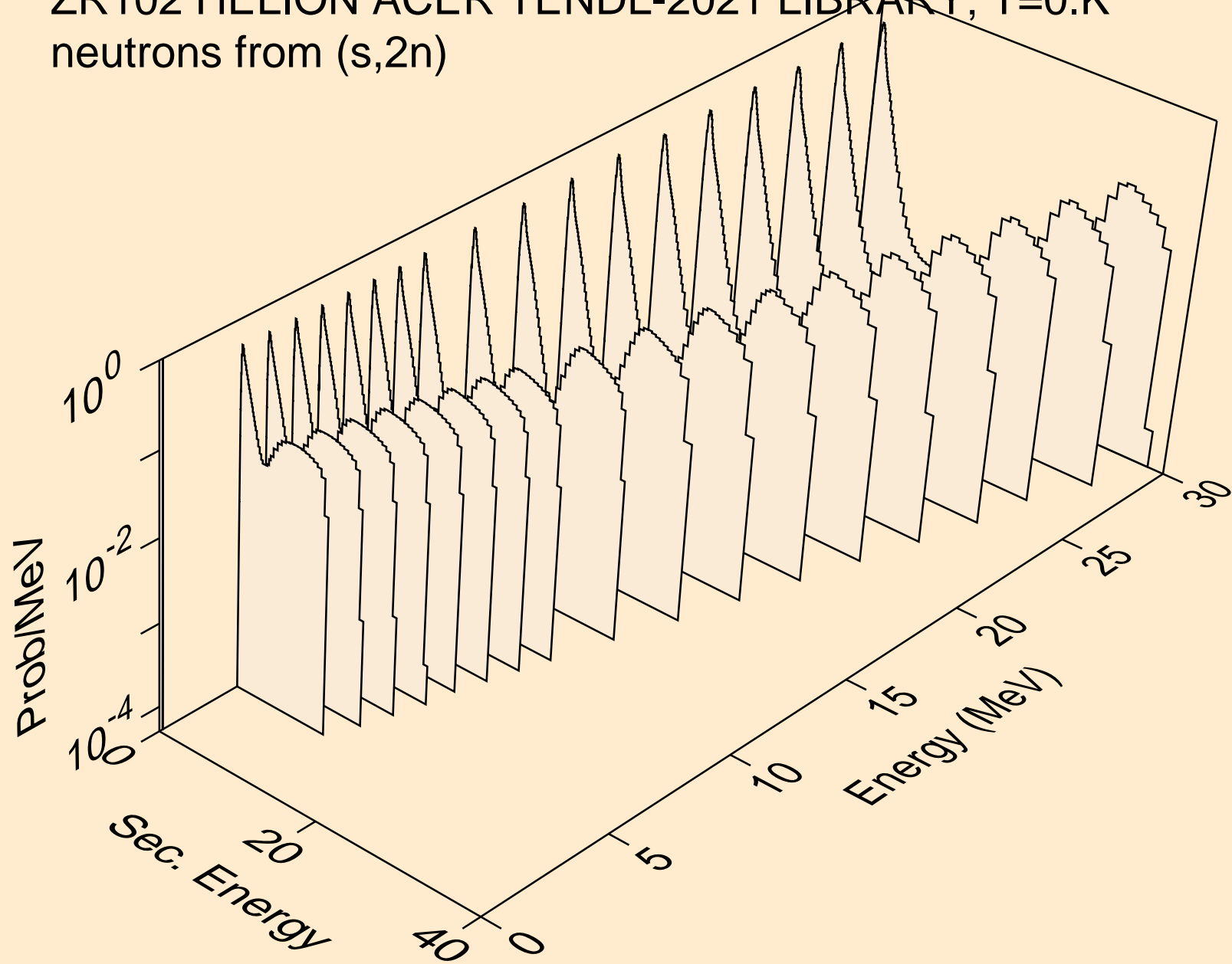
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neutrons from (s,x)



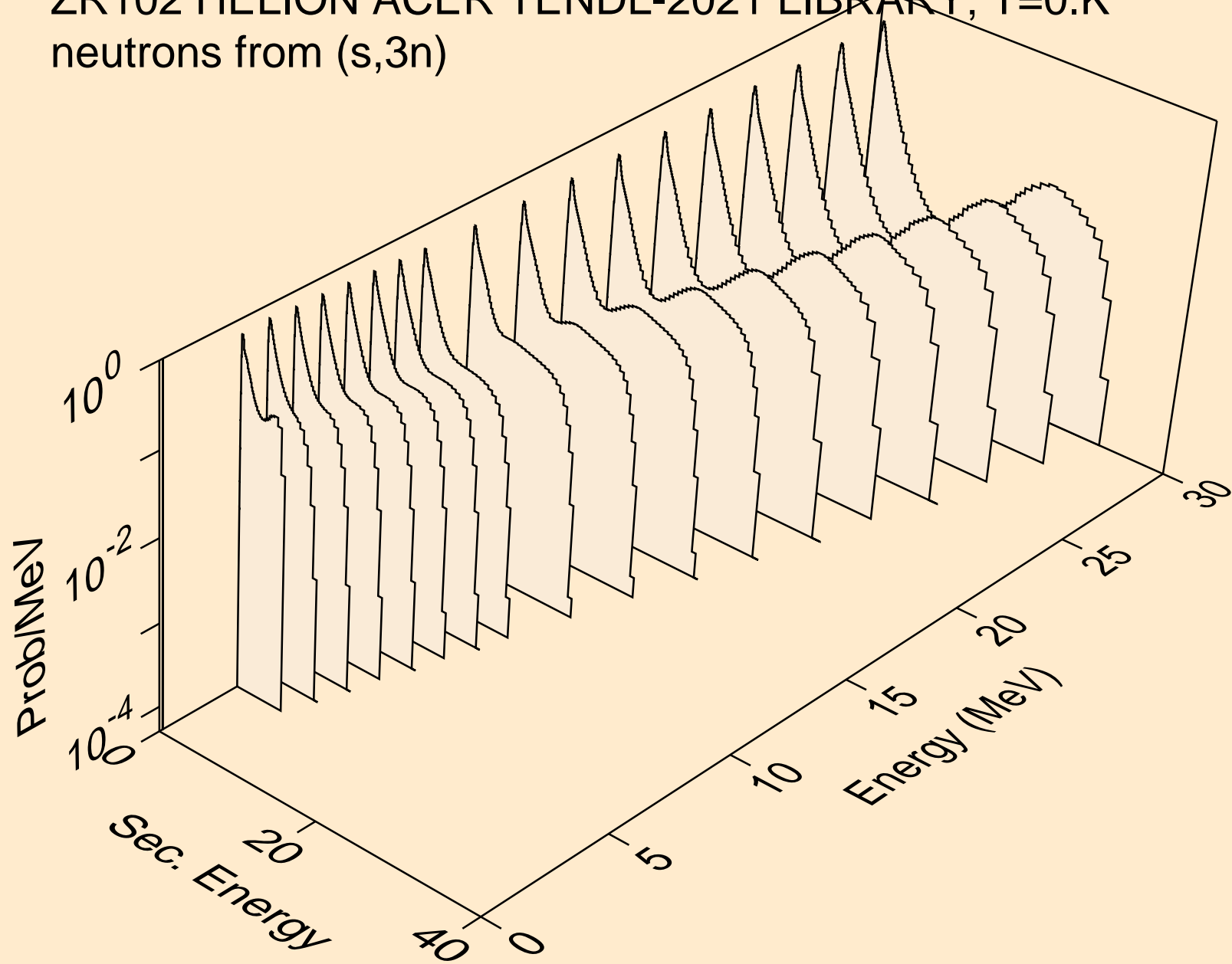
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neutrons from (s,2nd)



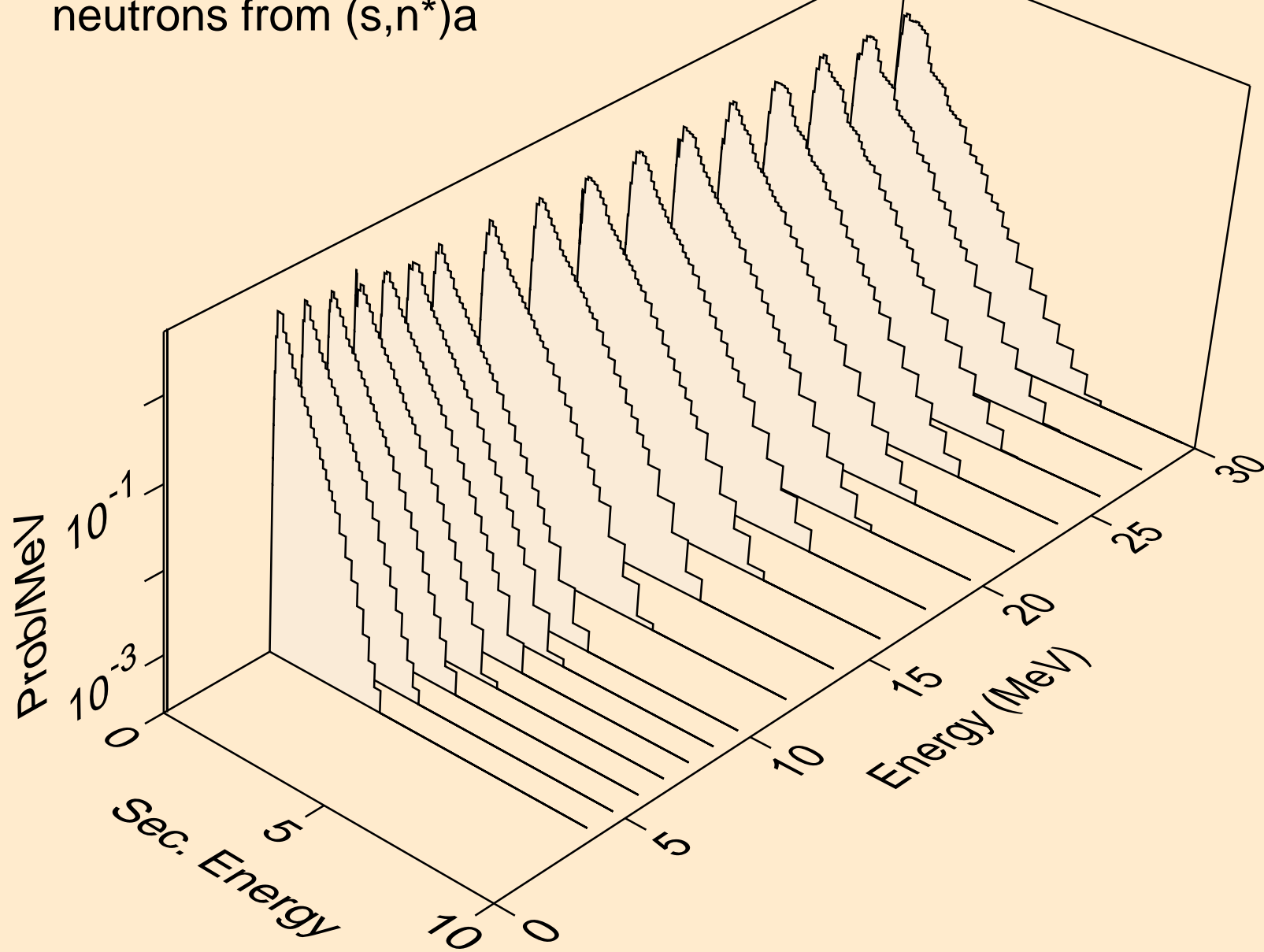
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neutrons from (s,2n)



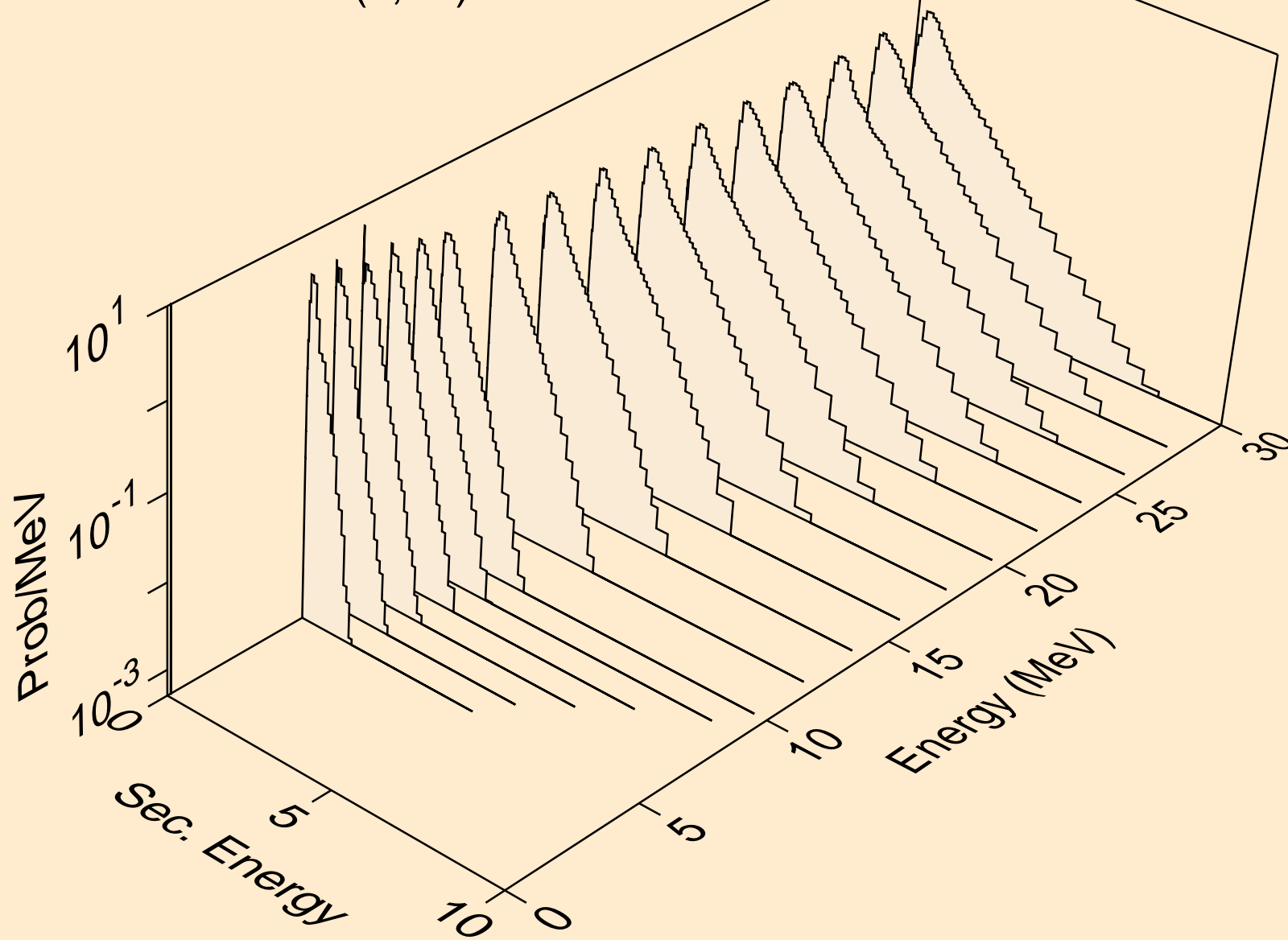
ZR102 HELION ACER TENDL-2021 LIBRARY; T=0.K  
neutrons from (s,3n)



ZR102 HELION ACER TENDL-2021 LIBRARY; T=0.K  
neutrons from (s,n\*)a

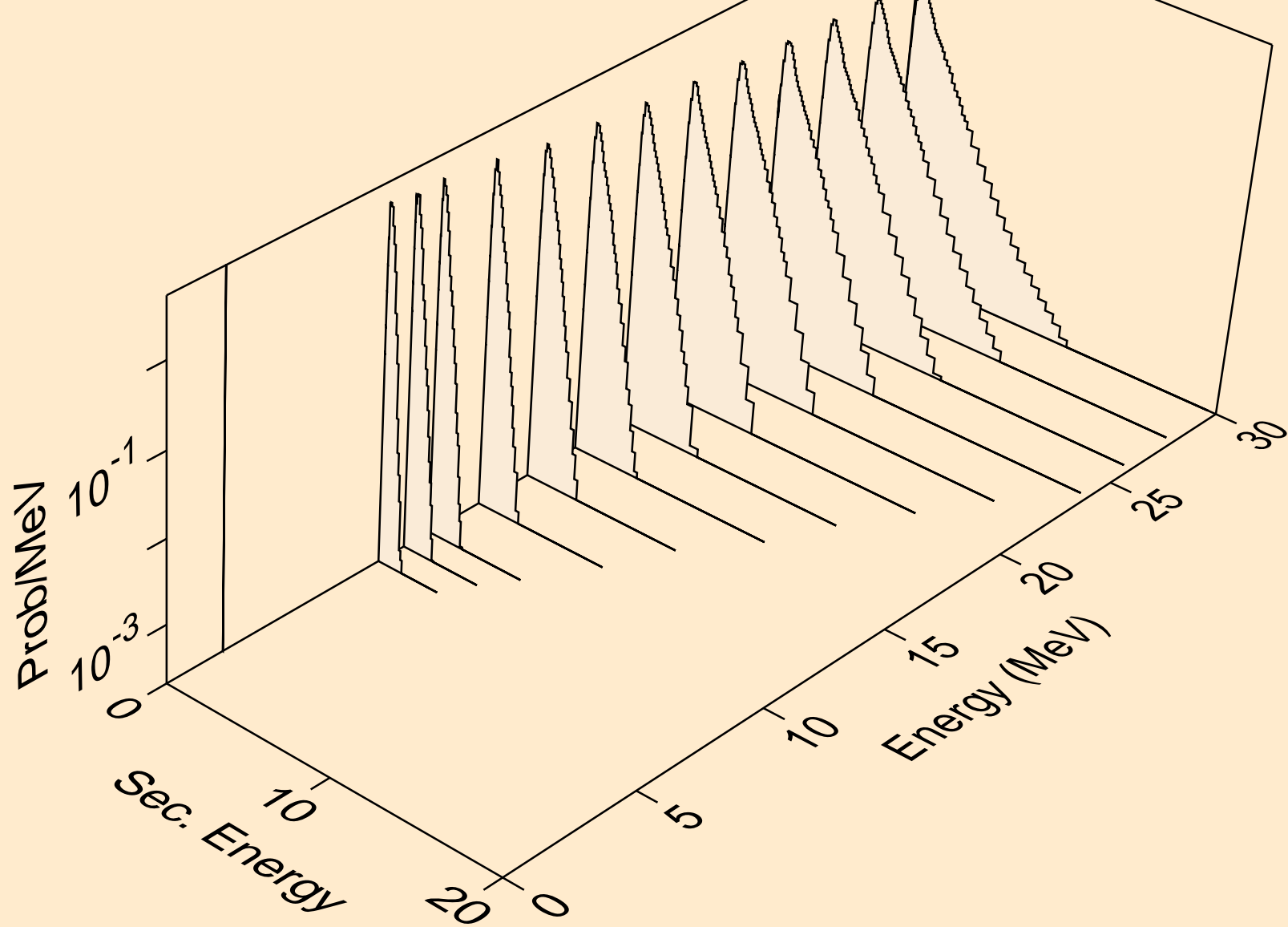


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neutrons from (s,2n)a

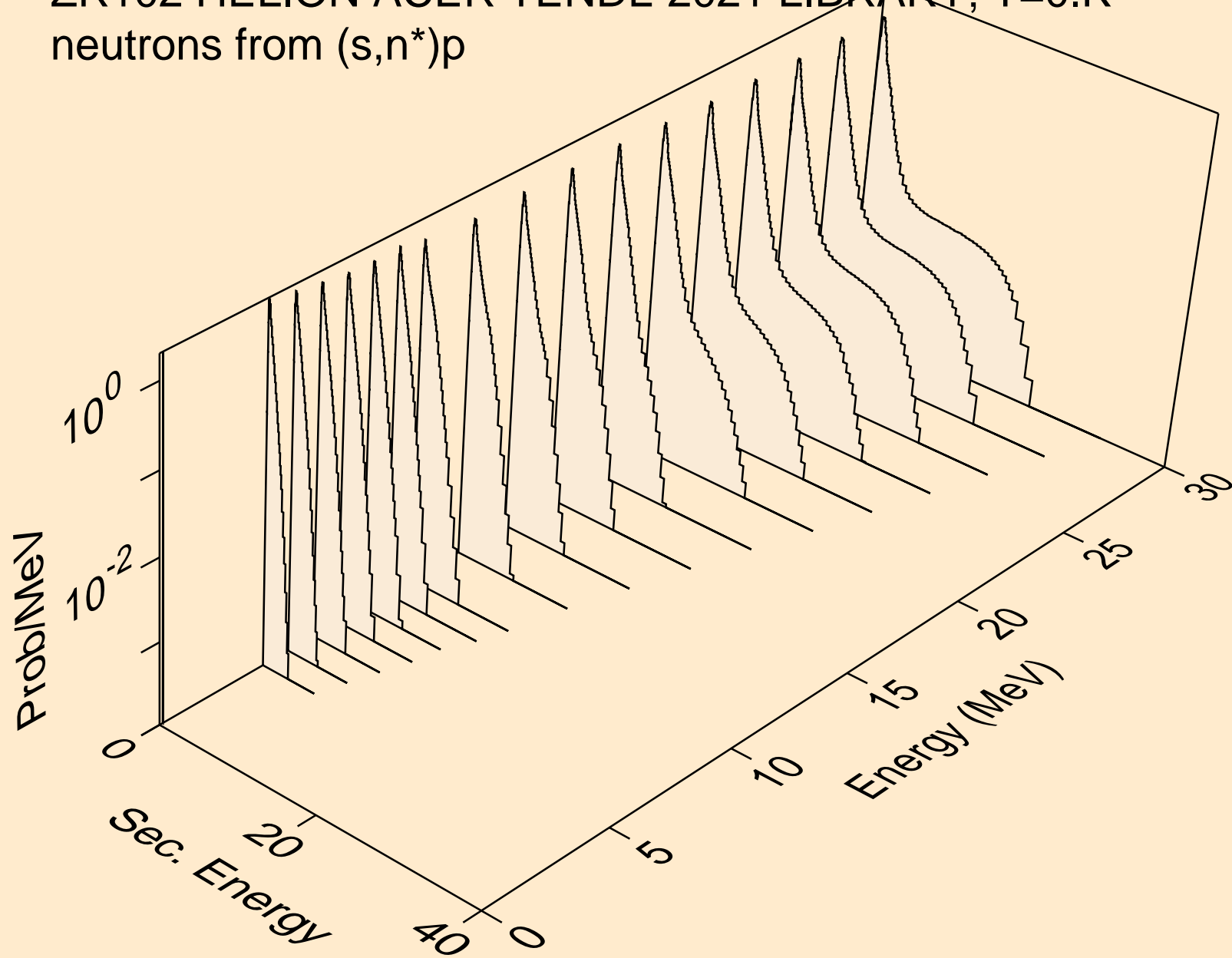




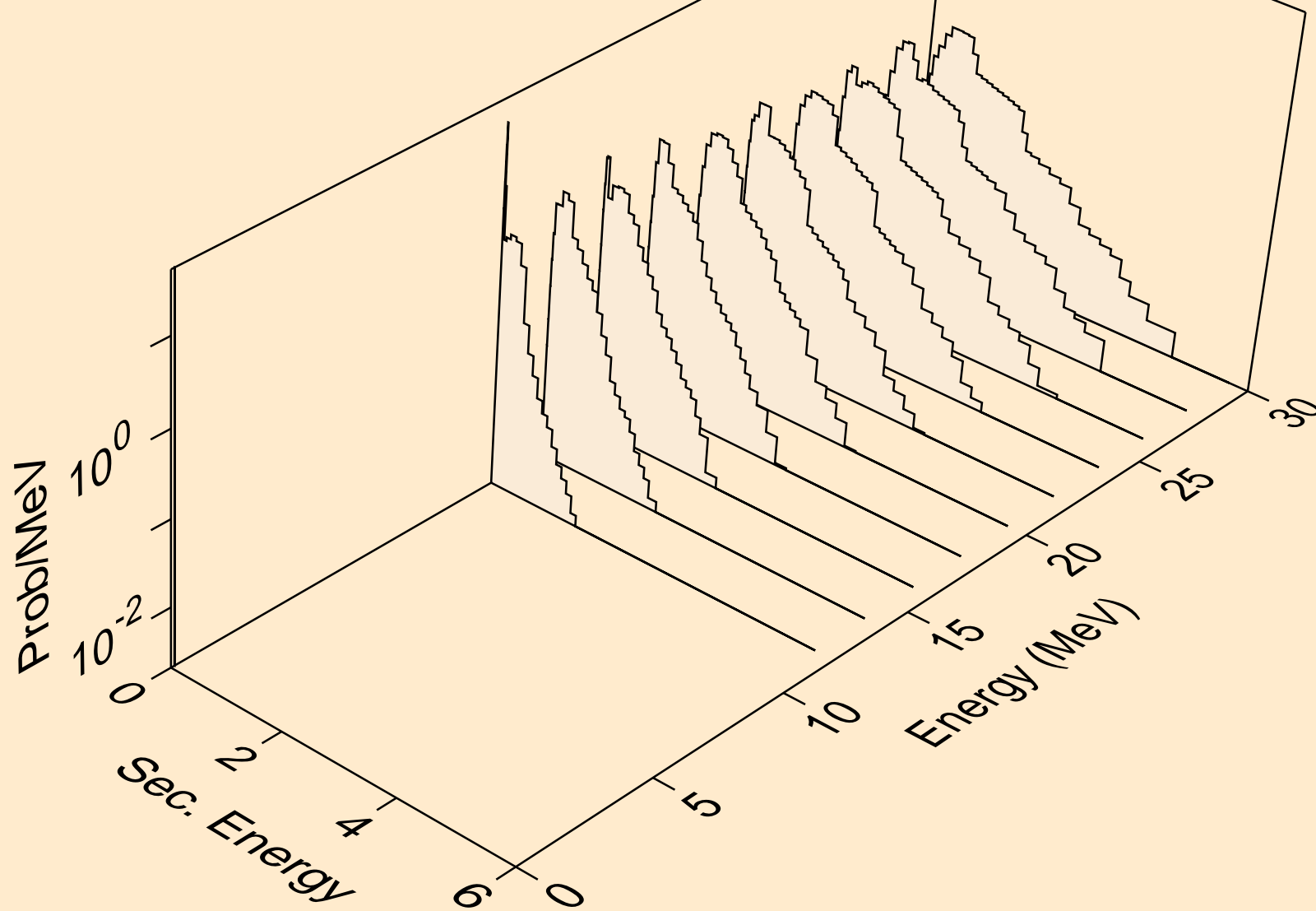
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neutrons from (s,3n)a



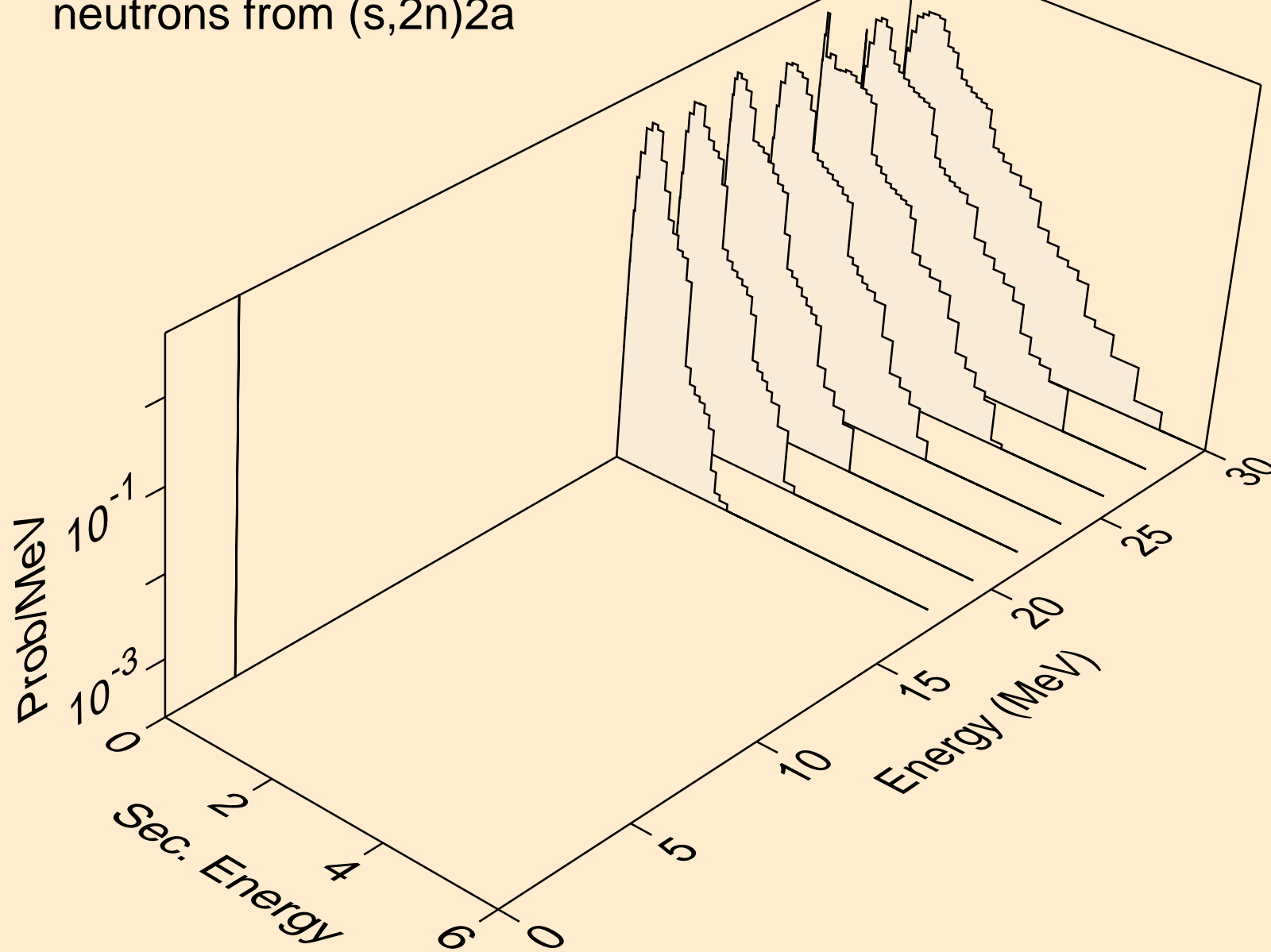
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neutrons from (s,n\*)p



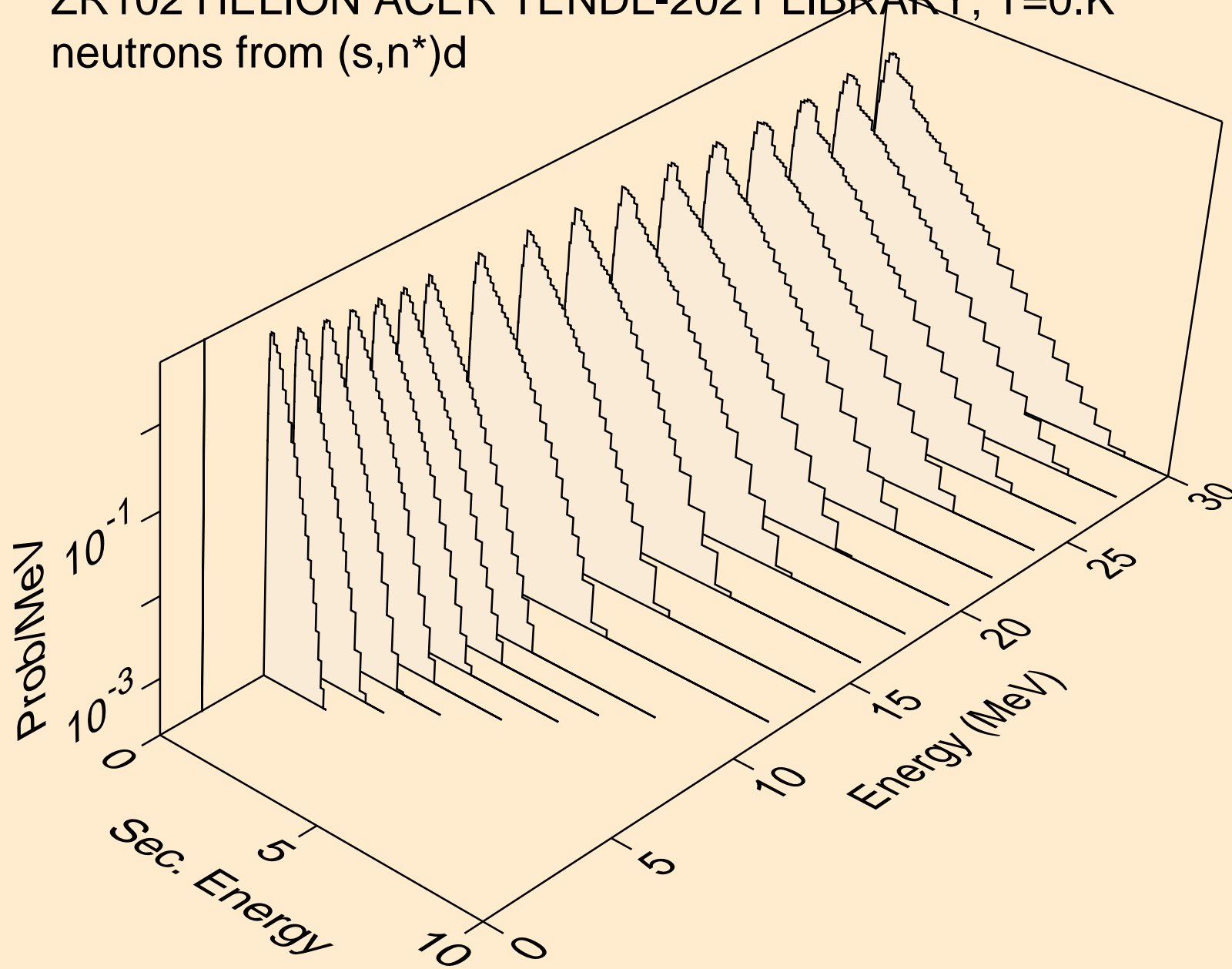
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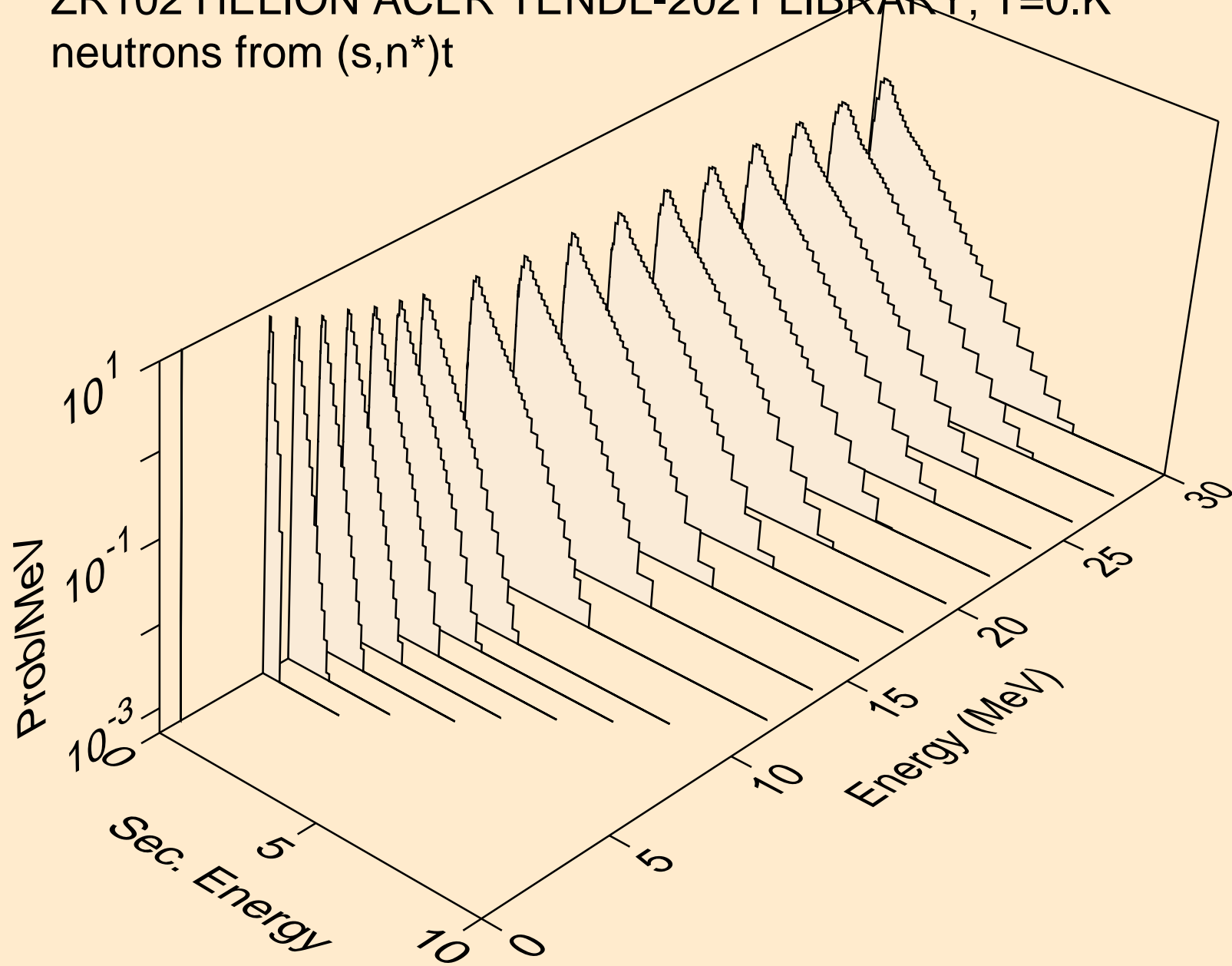
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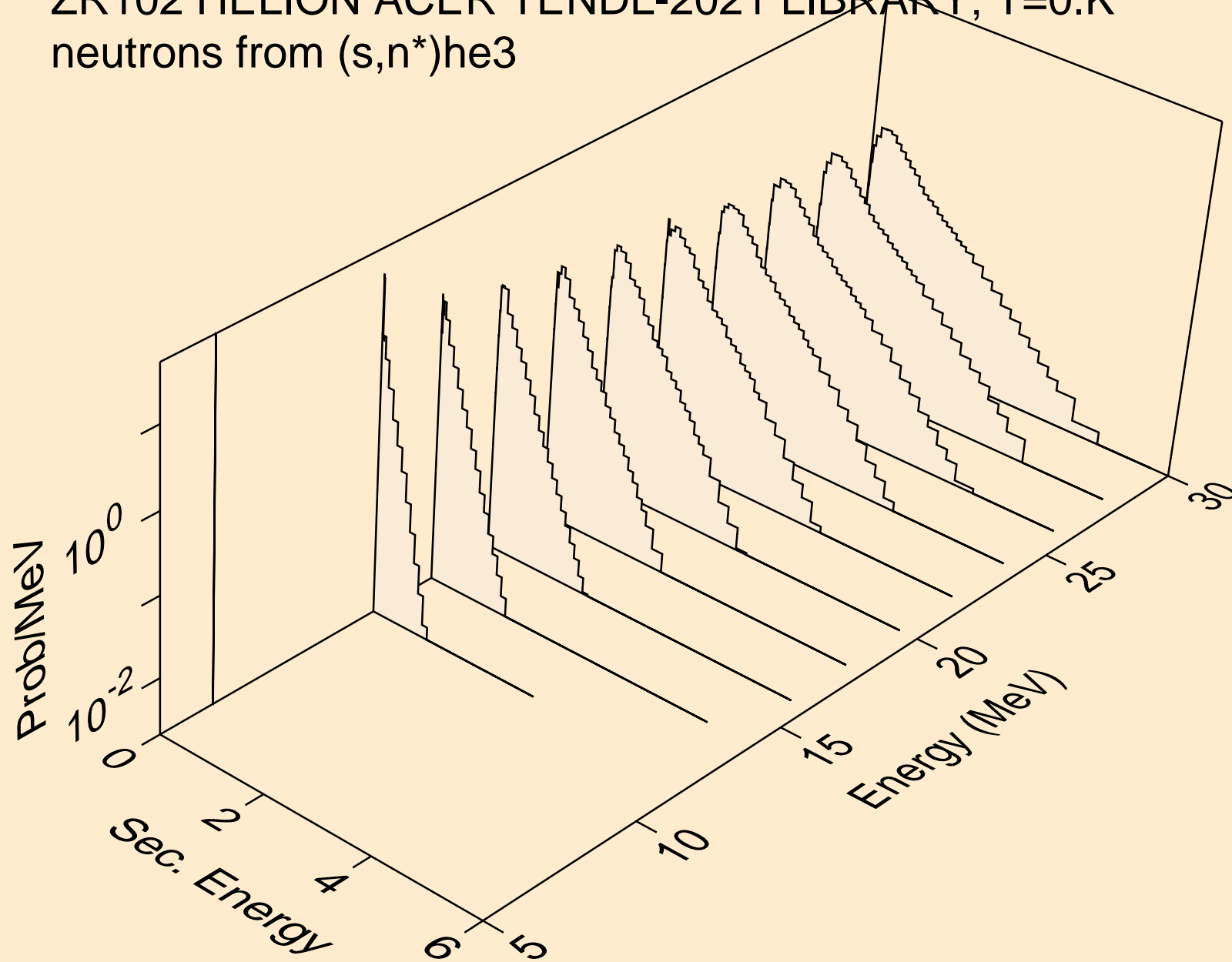
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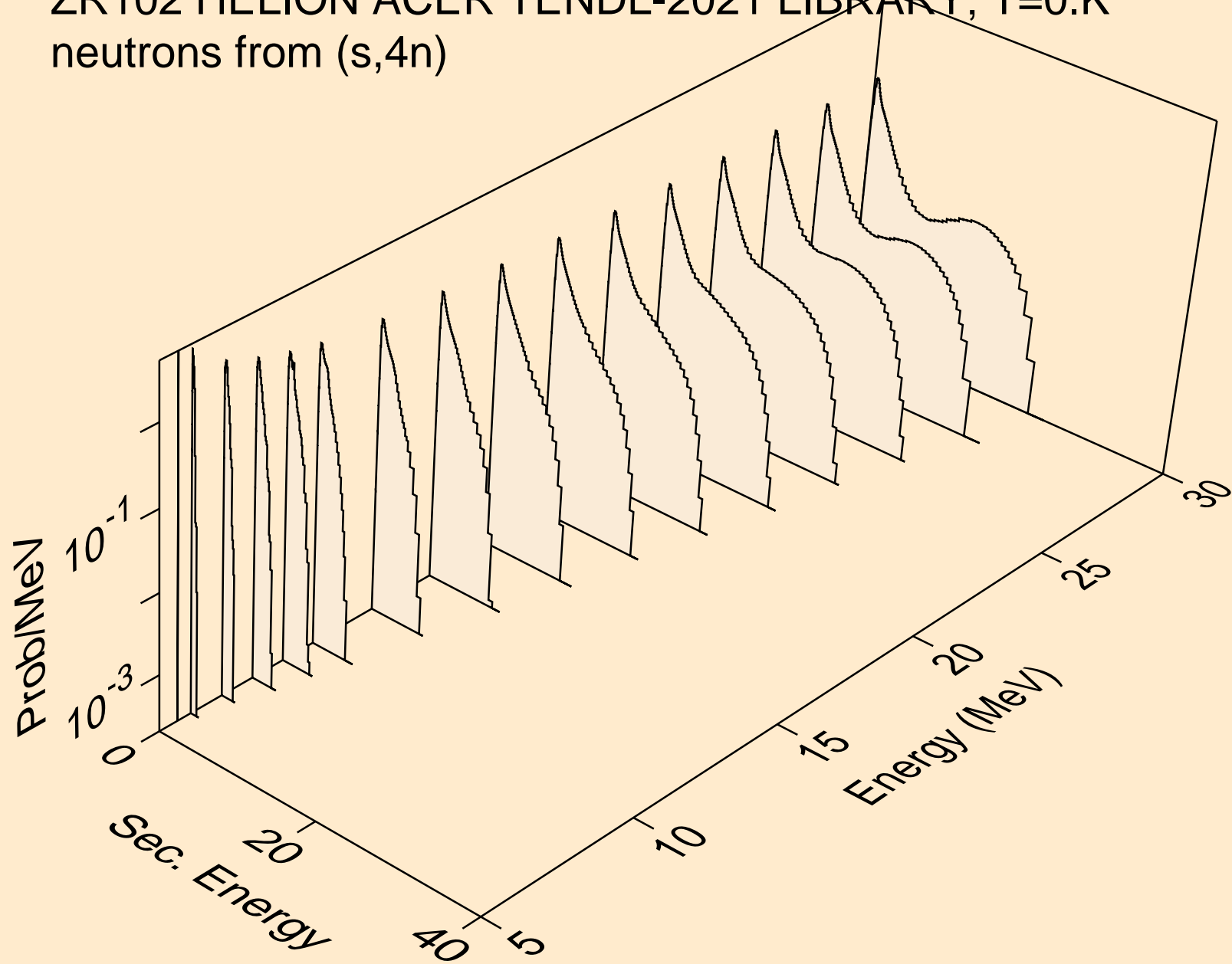
ZR102 HELION ACER TENDL-2021 LIBRARY; T=0.K  
neutrons from (s,n\*)t



ZR102 HELION ACER TENDL-2021 LIBRARY; T=0.K  
neutrons from (s,n\*)he3

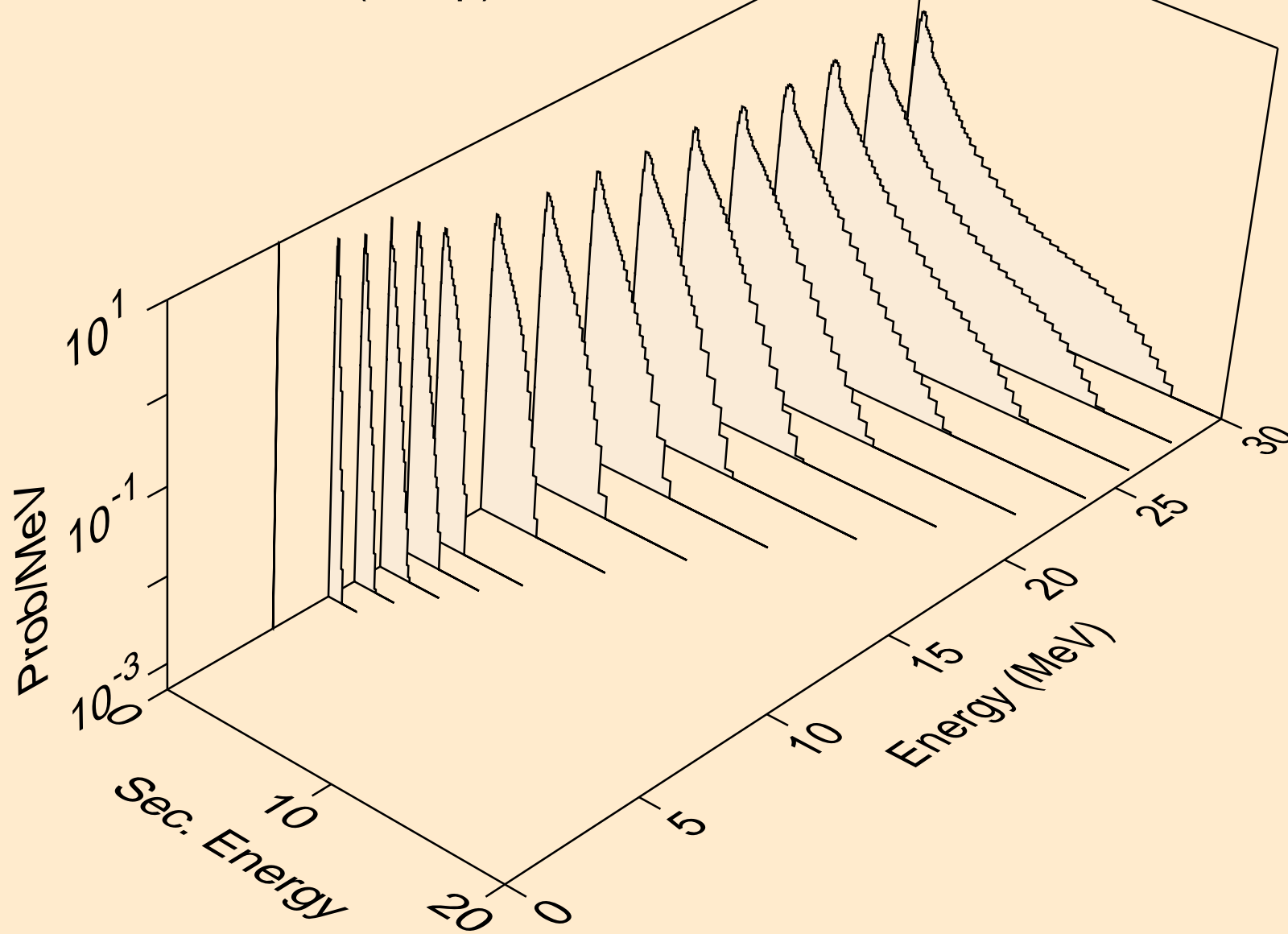


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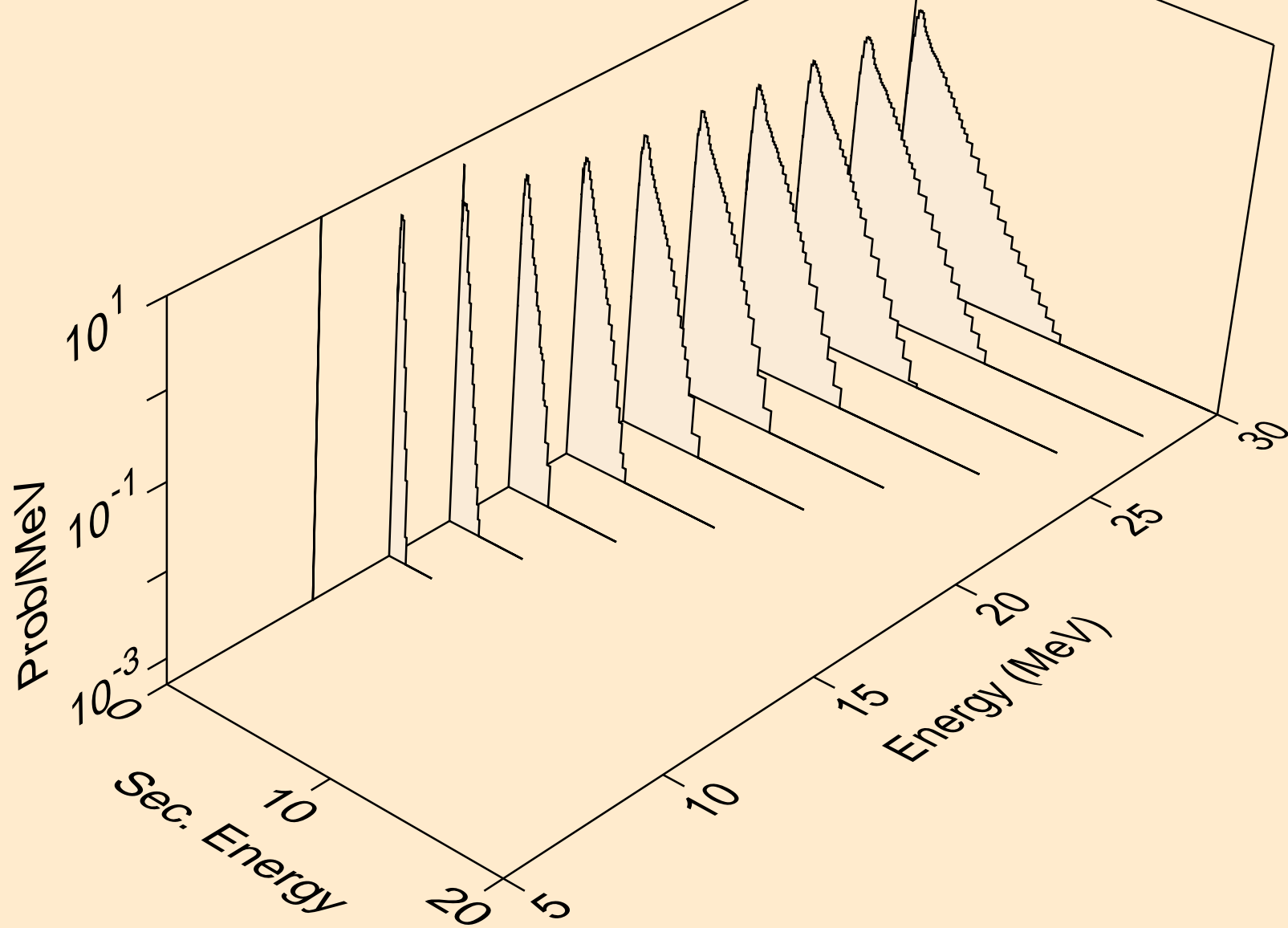




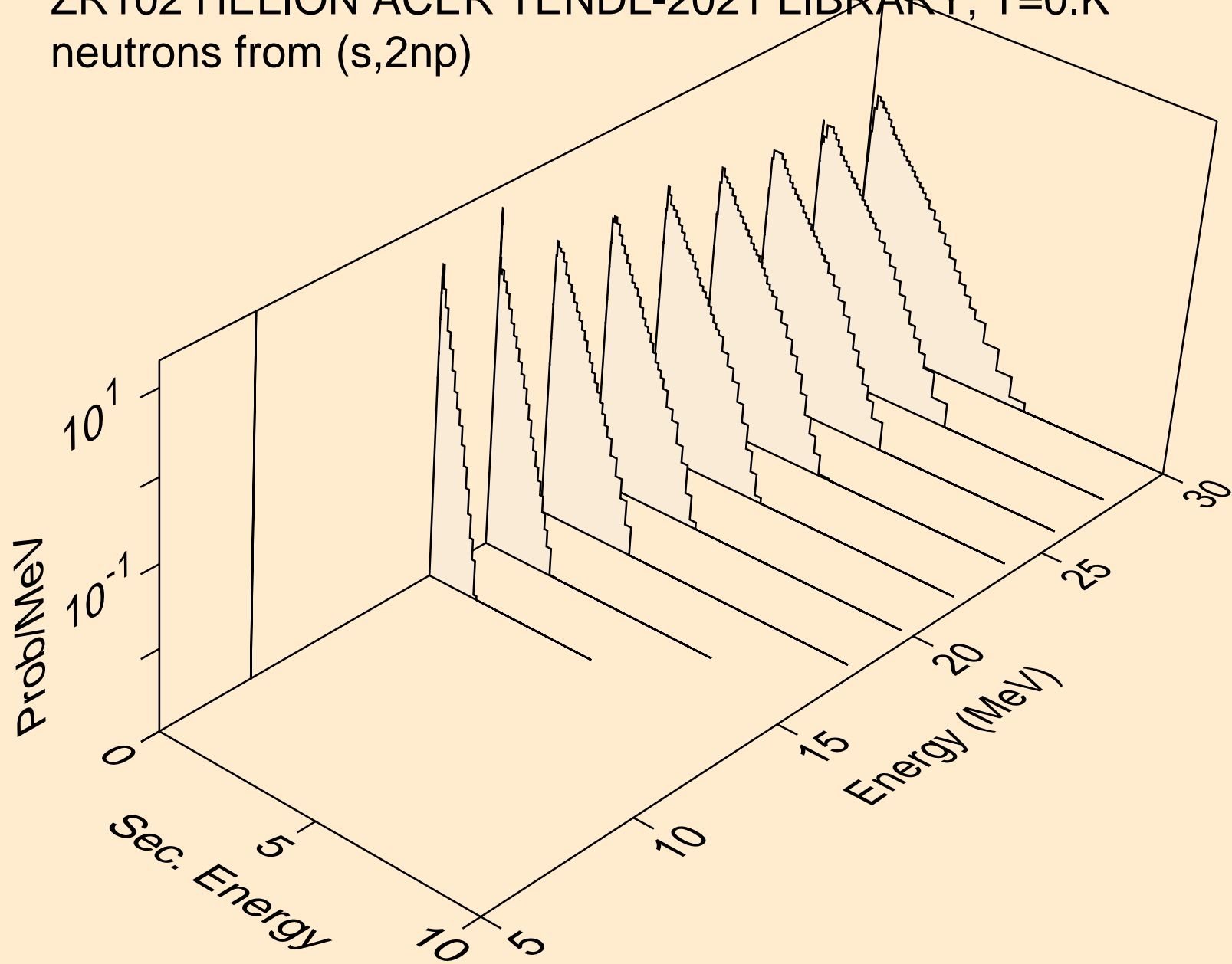
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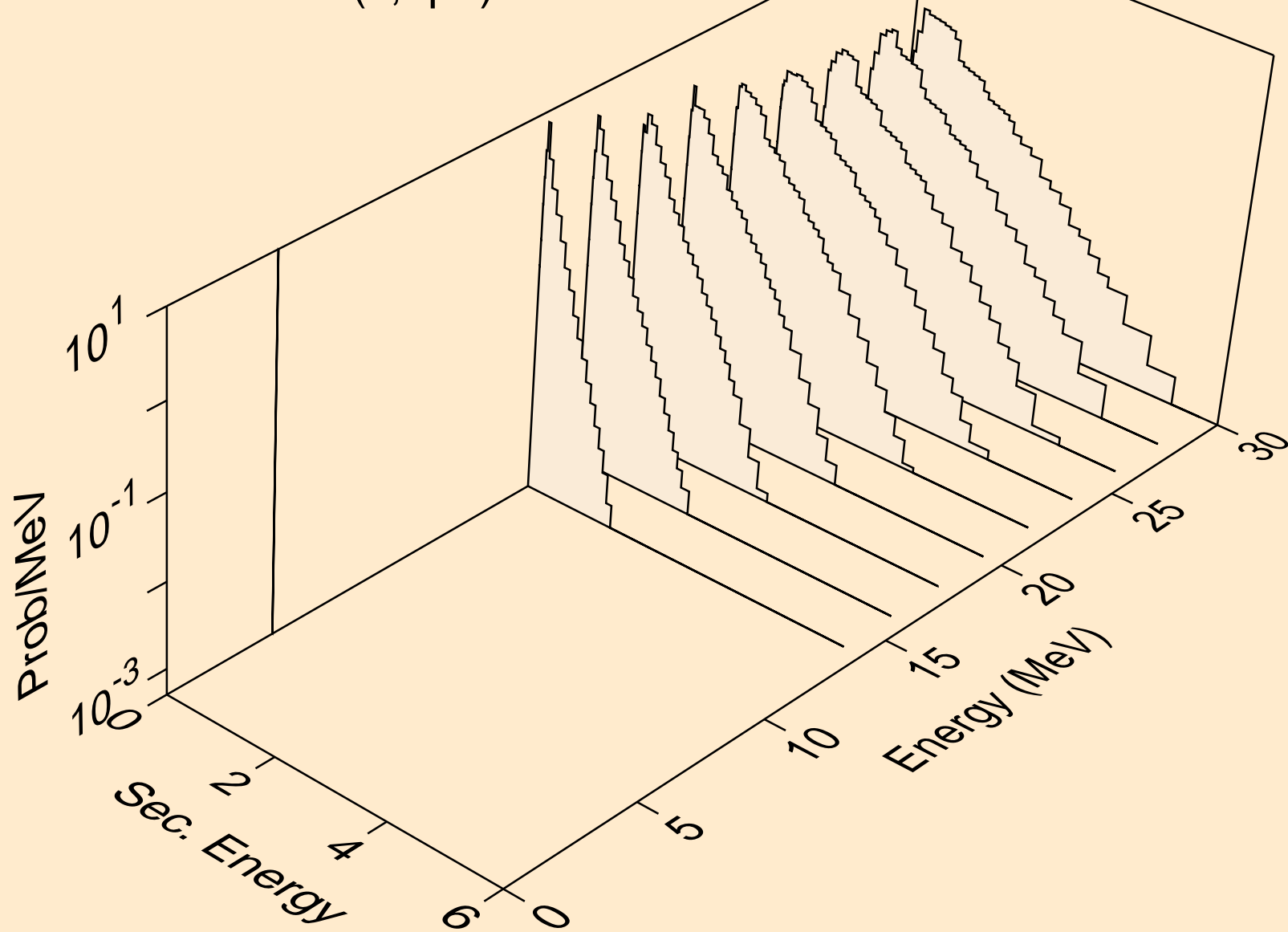
ZR102 HELION ACER TENDL-2021 LIBRARY; T=0.K  
neutrons from (s,3np)



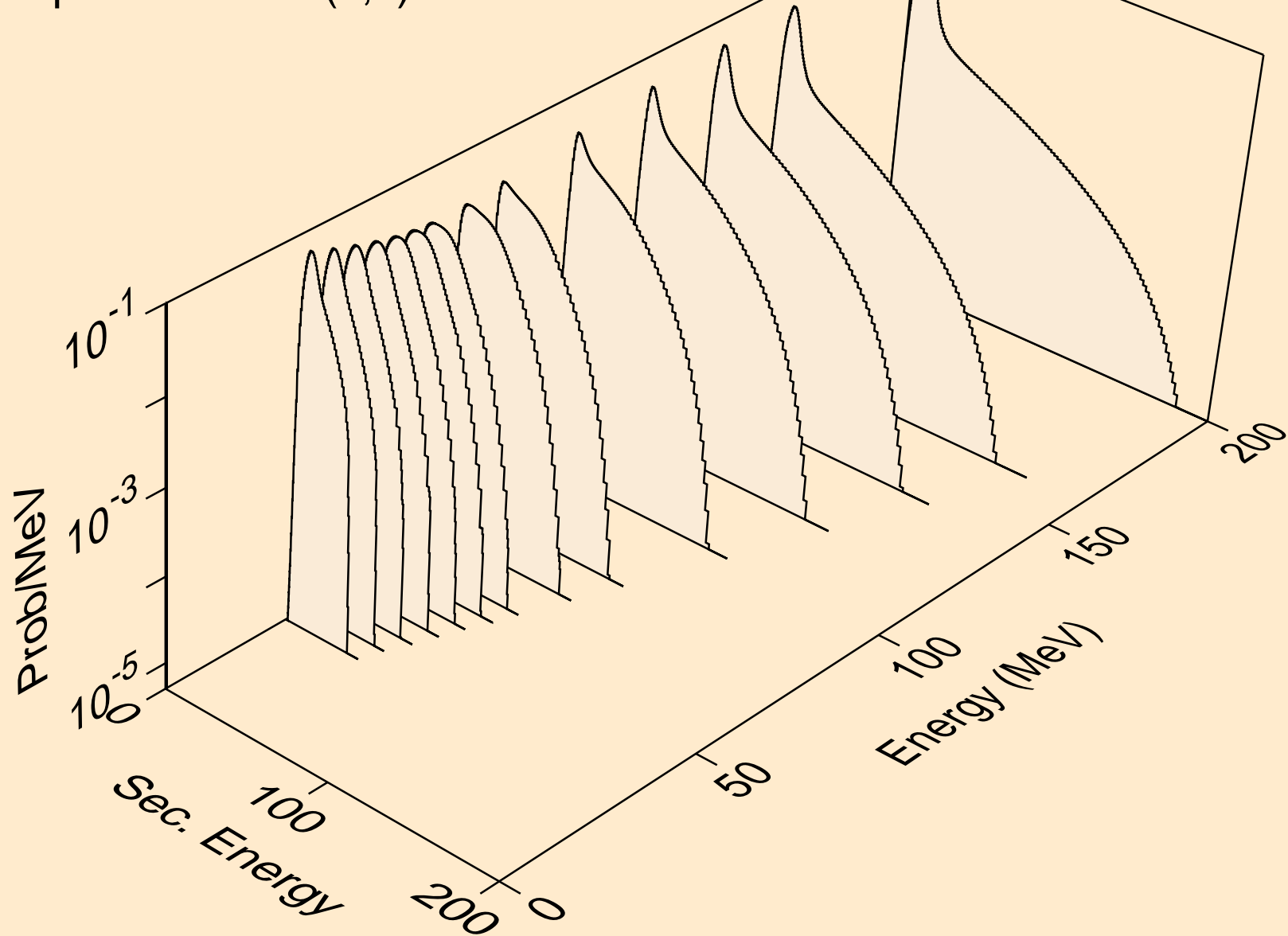
ZR102 HELION ACER TENDL-2021 LIBRARY; T=0.K  
neutrons from (s,2np)



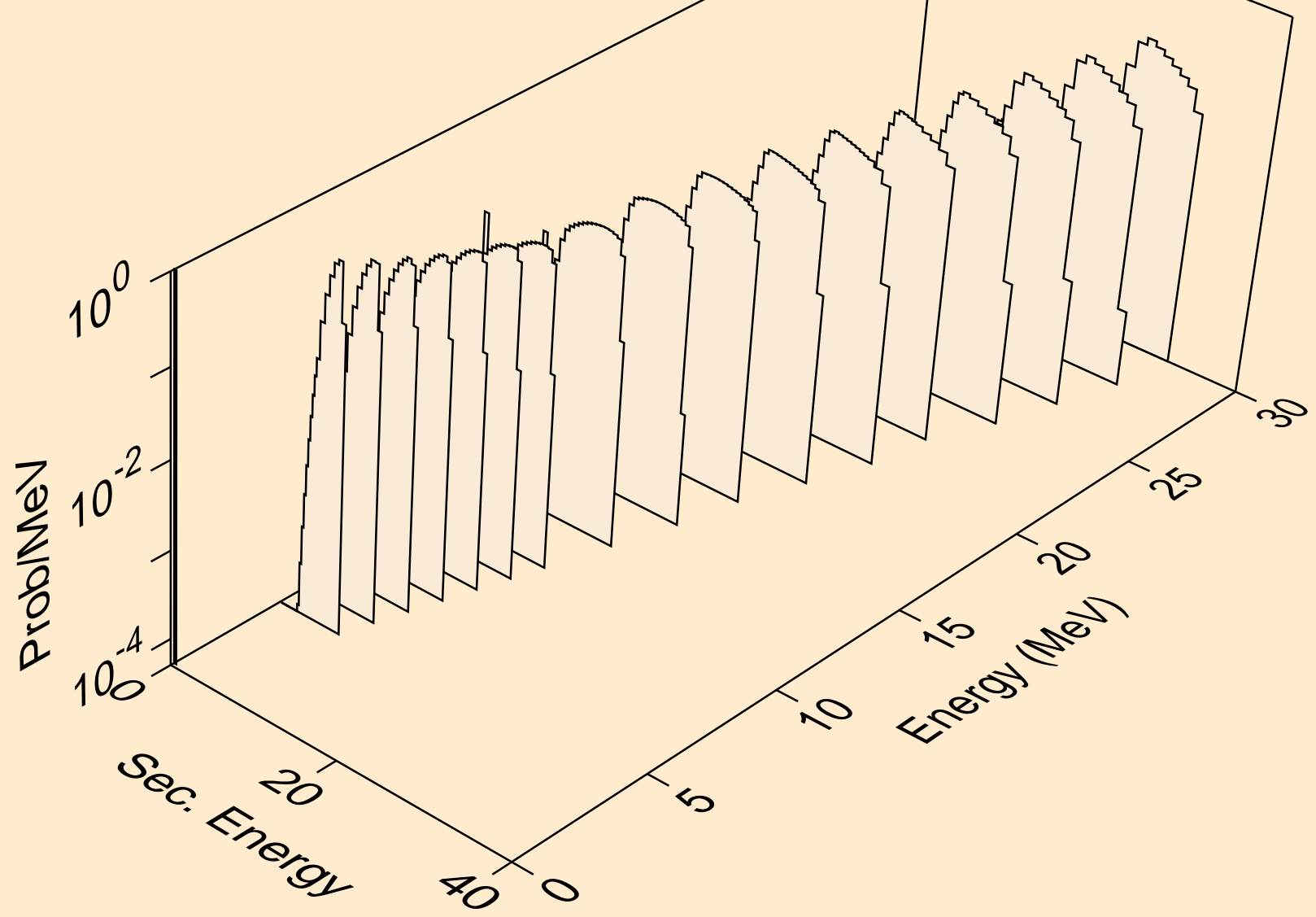
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neutrons from (s,npa)



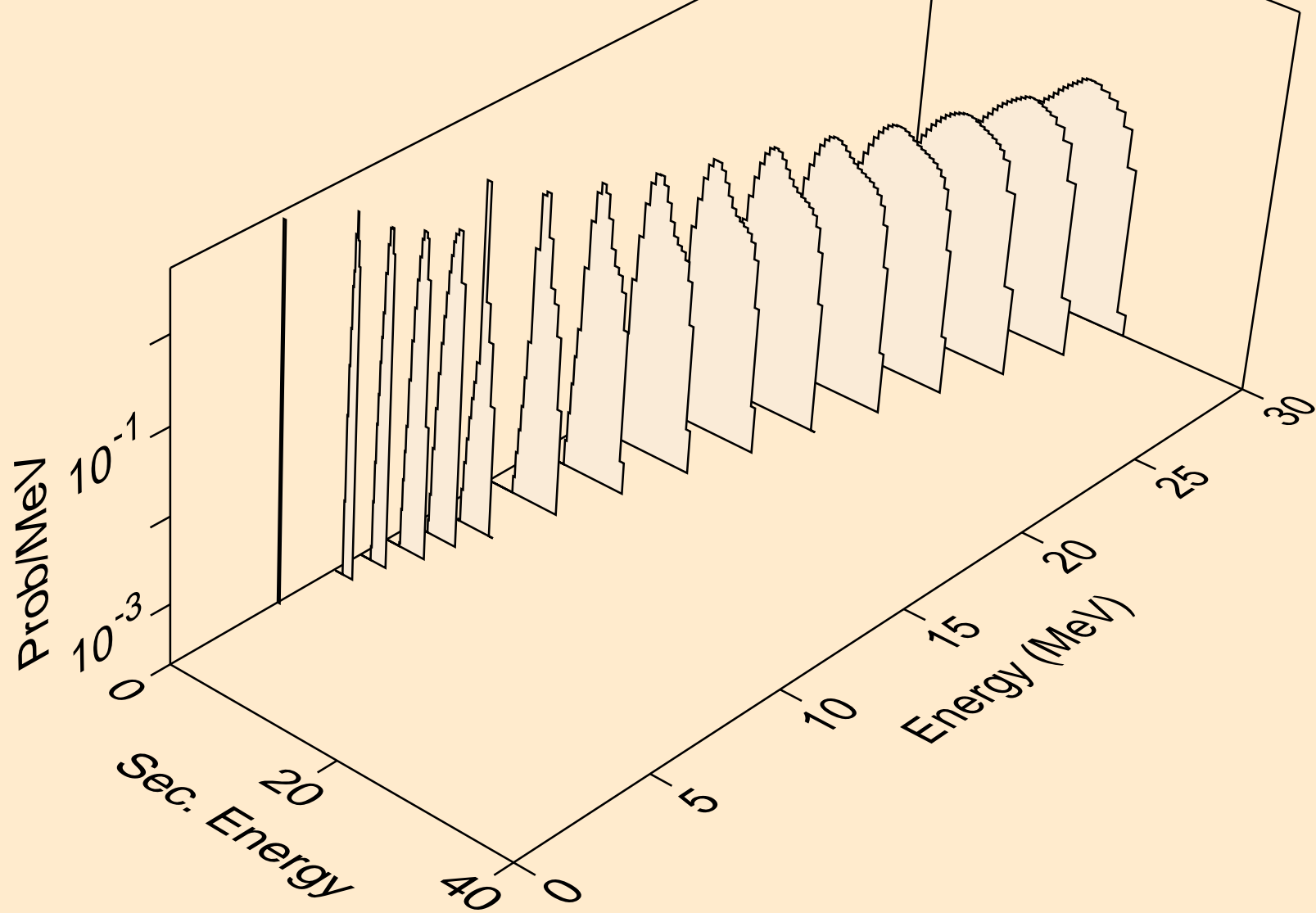
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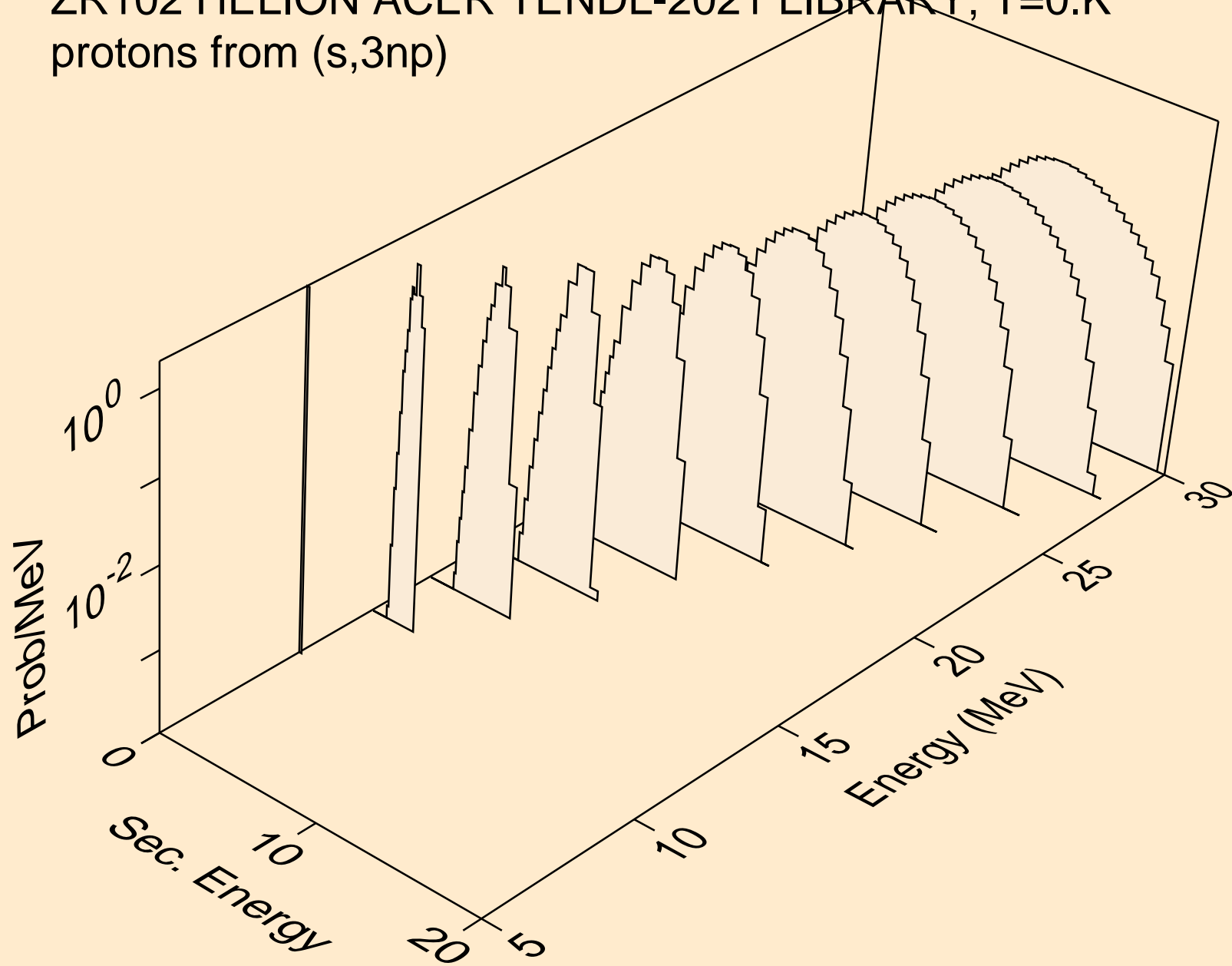
ZR102 HELION ACER TENDL-2021 LIBRARY; T=0.K  
protons from (s,n\*)p



ZR102 HELION ACER TENDL-2021 LIBRARY; T=0.K  
protons from (s,2np)

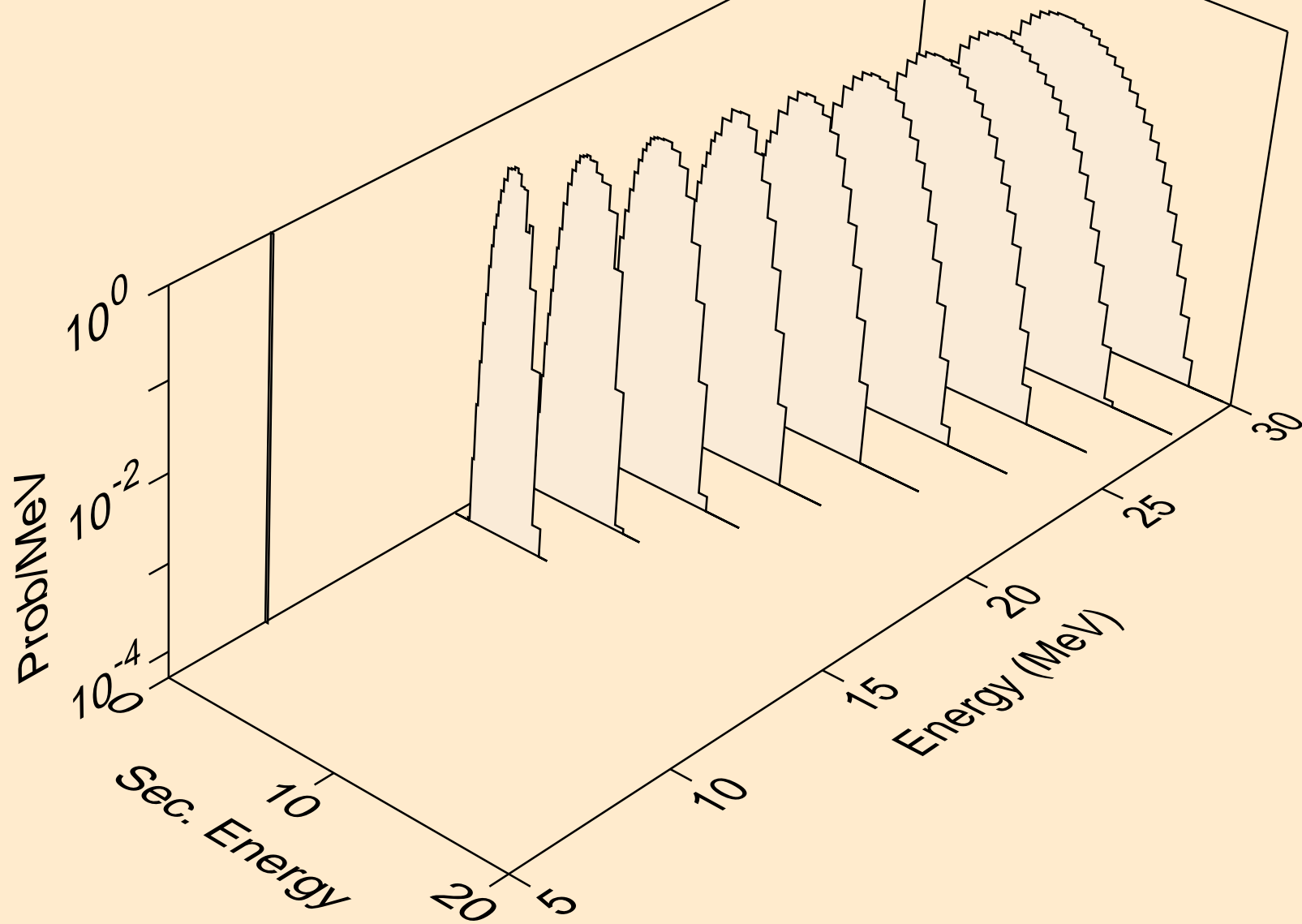


ZR102 HELION ACER TENDL-2021 LIBRARY; T=0.K  
protons from (s,3np)

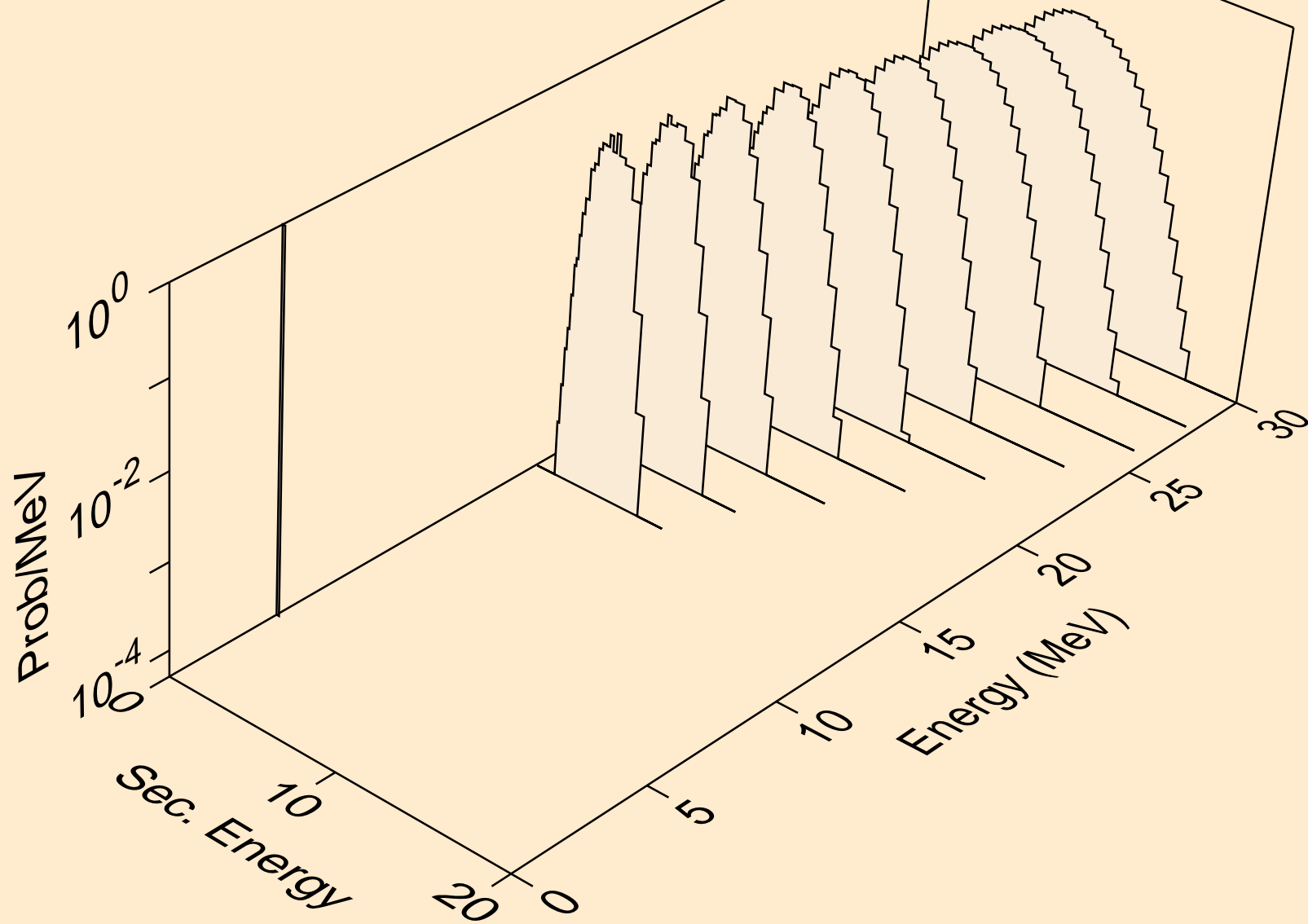




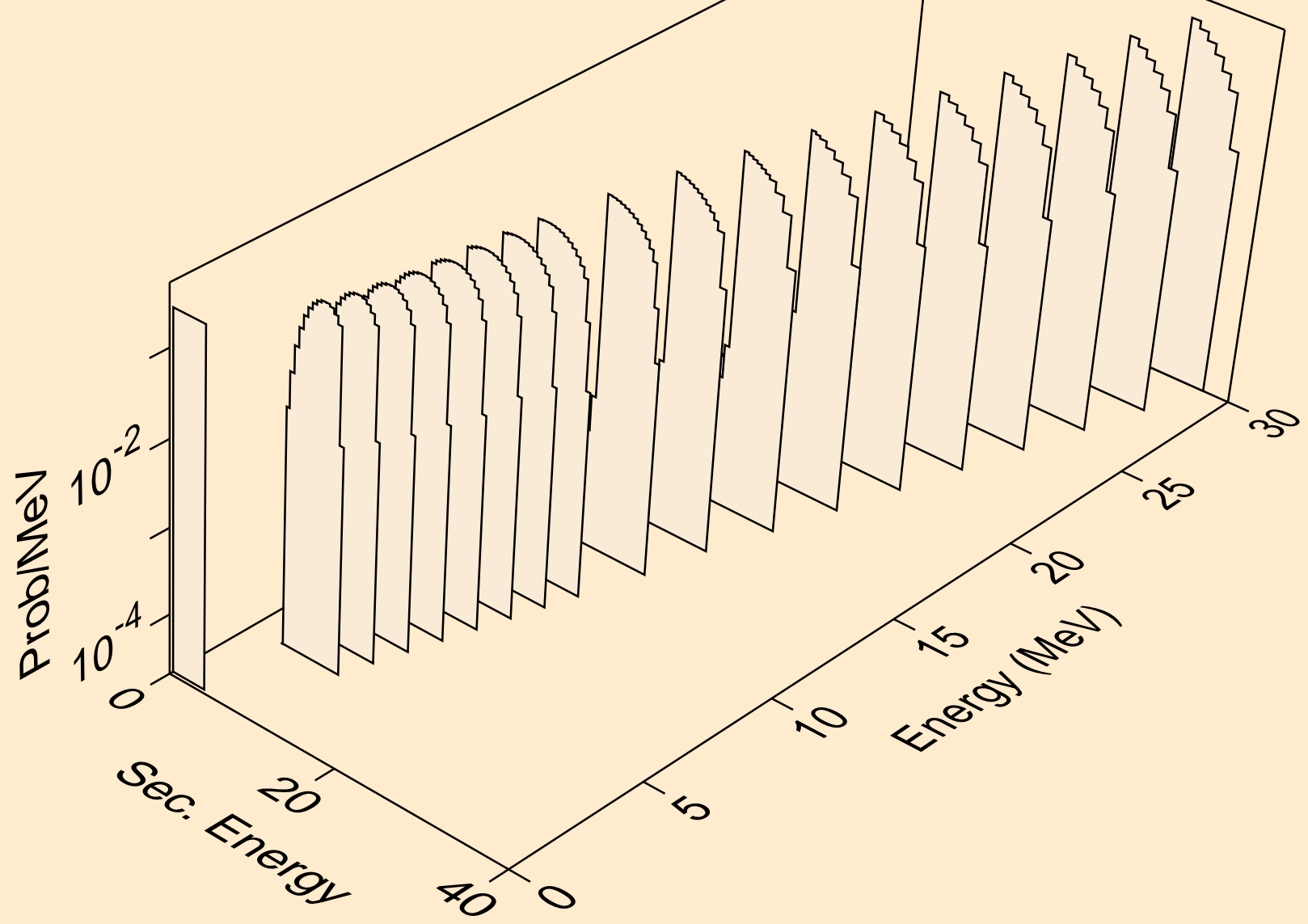
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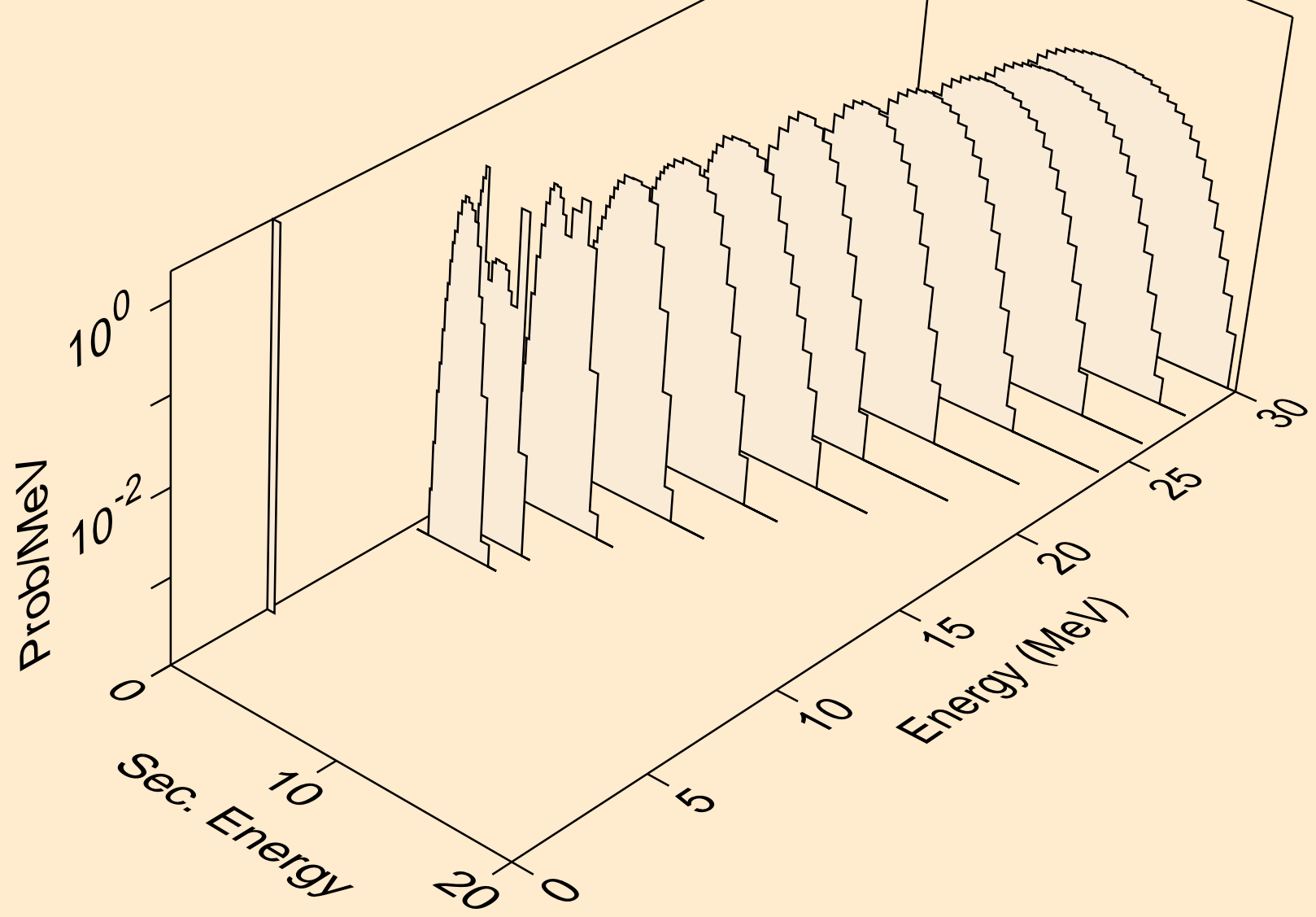
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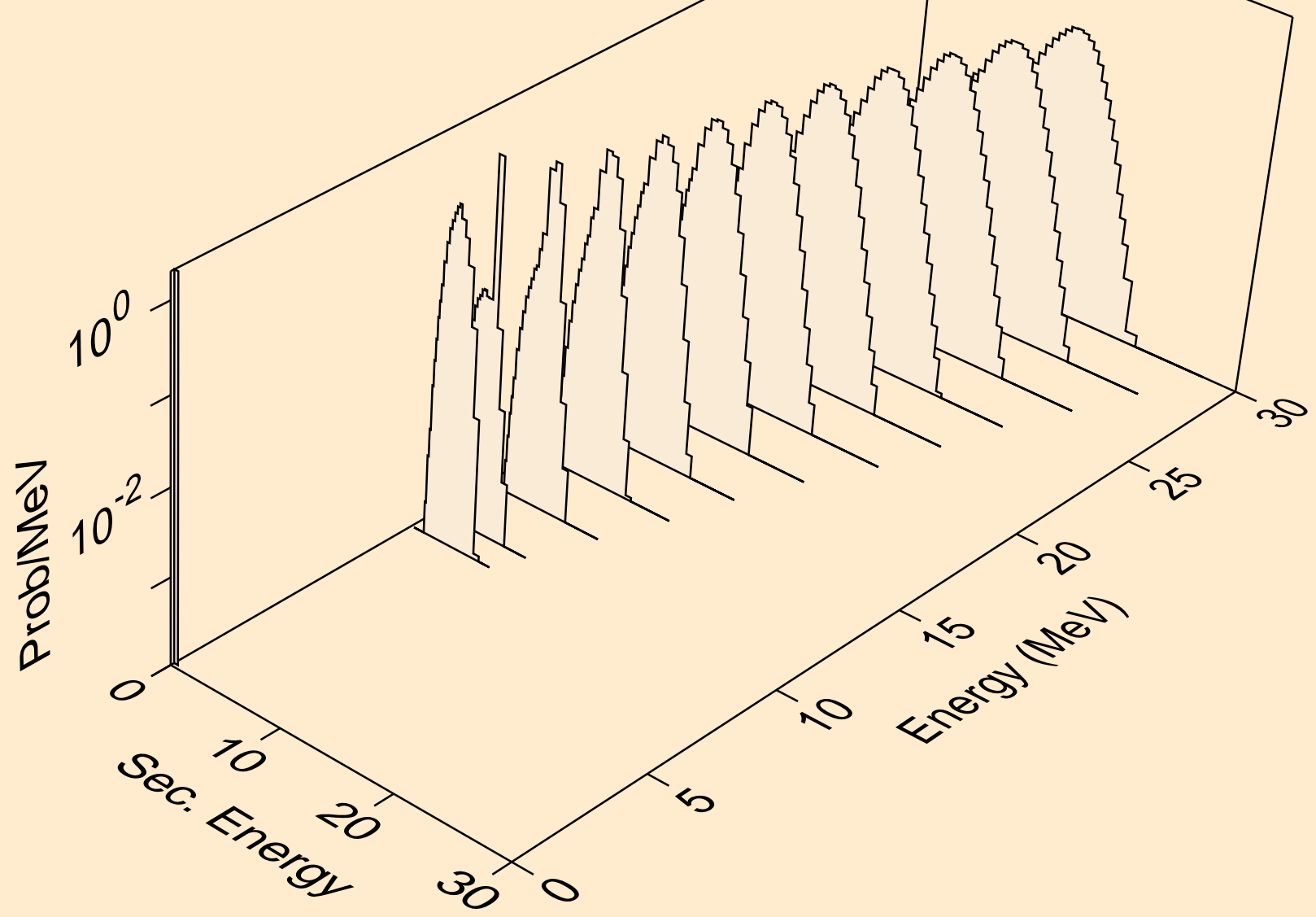
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protons from (s,p)



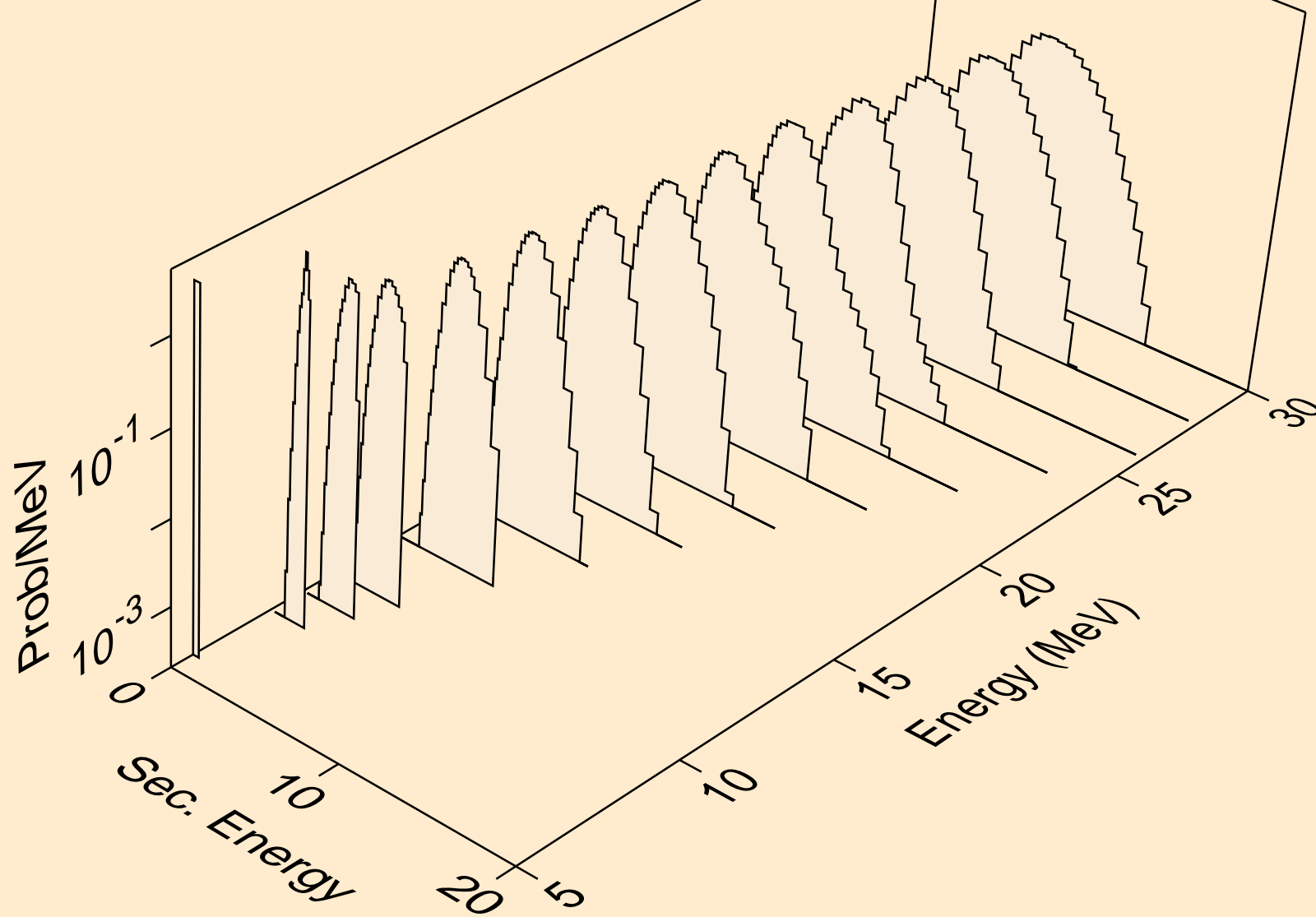
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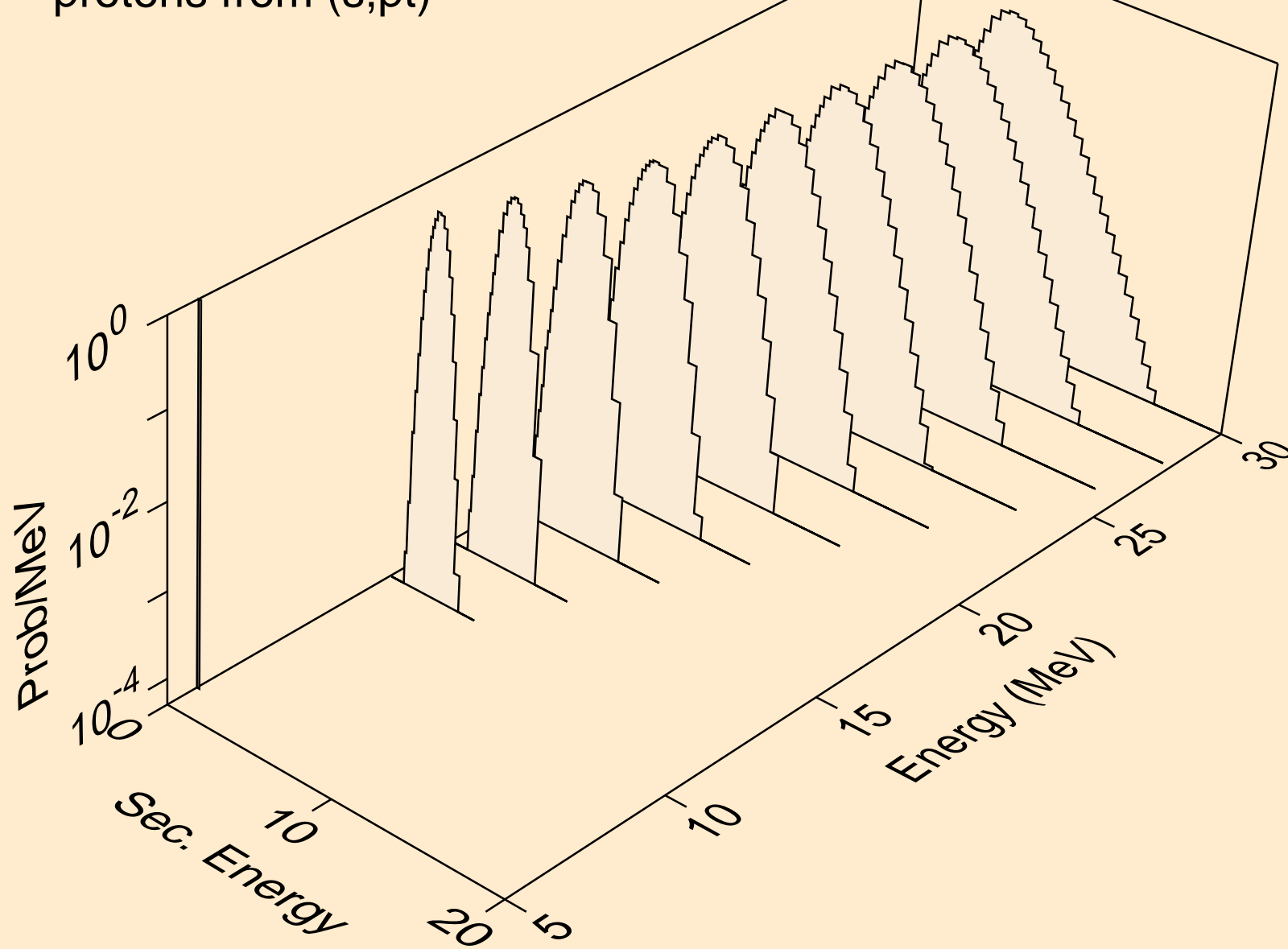
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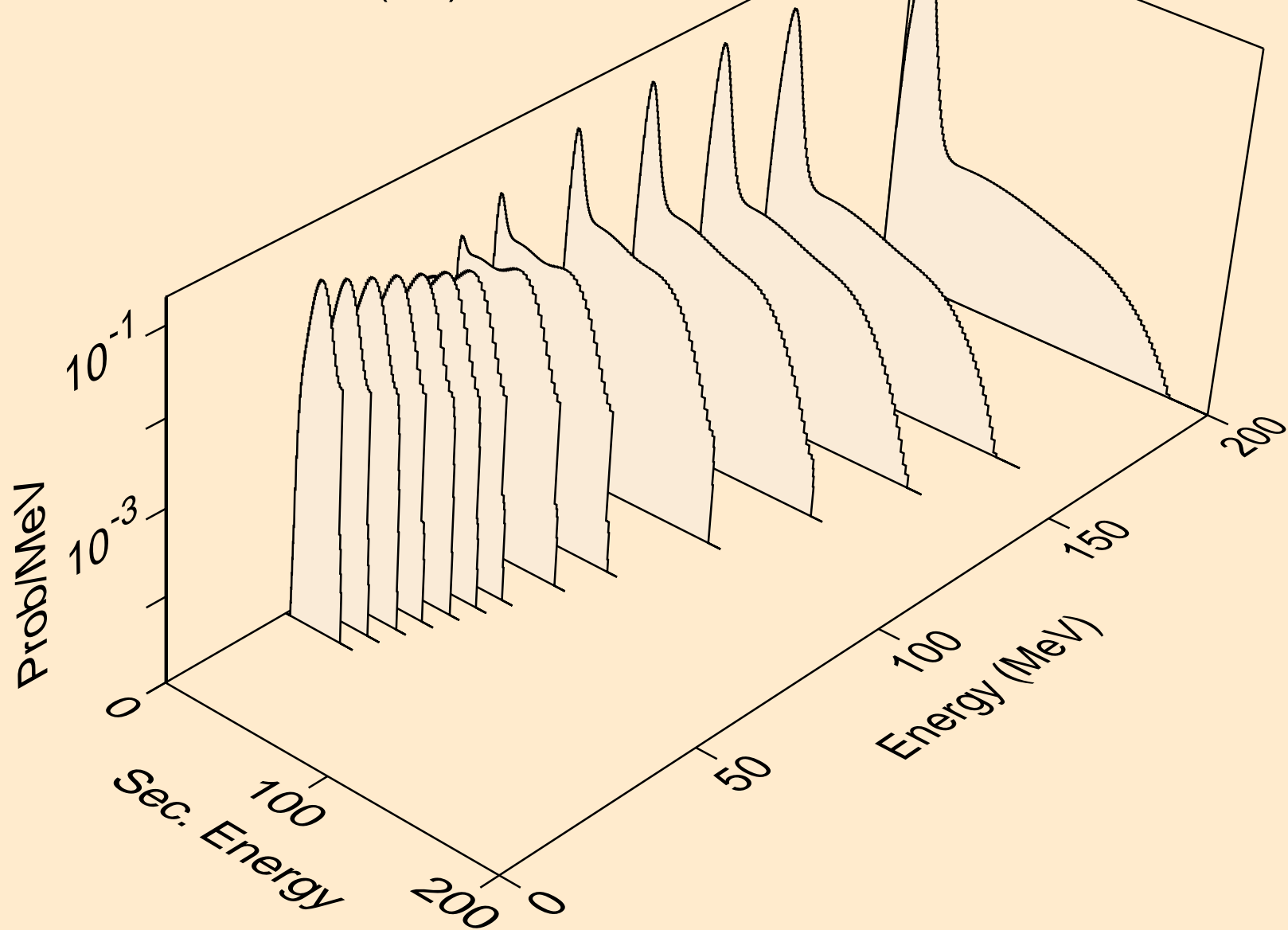
ZR102 HELION ACER TENDL-2021 LIBRARY; T=0.K  
protons from (s,pd)



ZR102 HELION ACER TENDL-2021 LIBRARY; T=0.K  
protons from (s,pt)

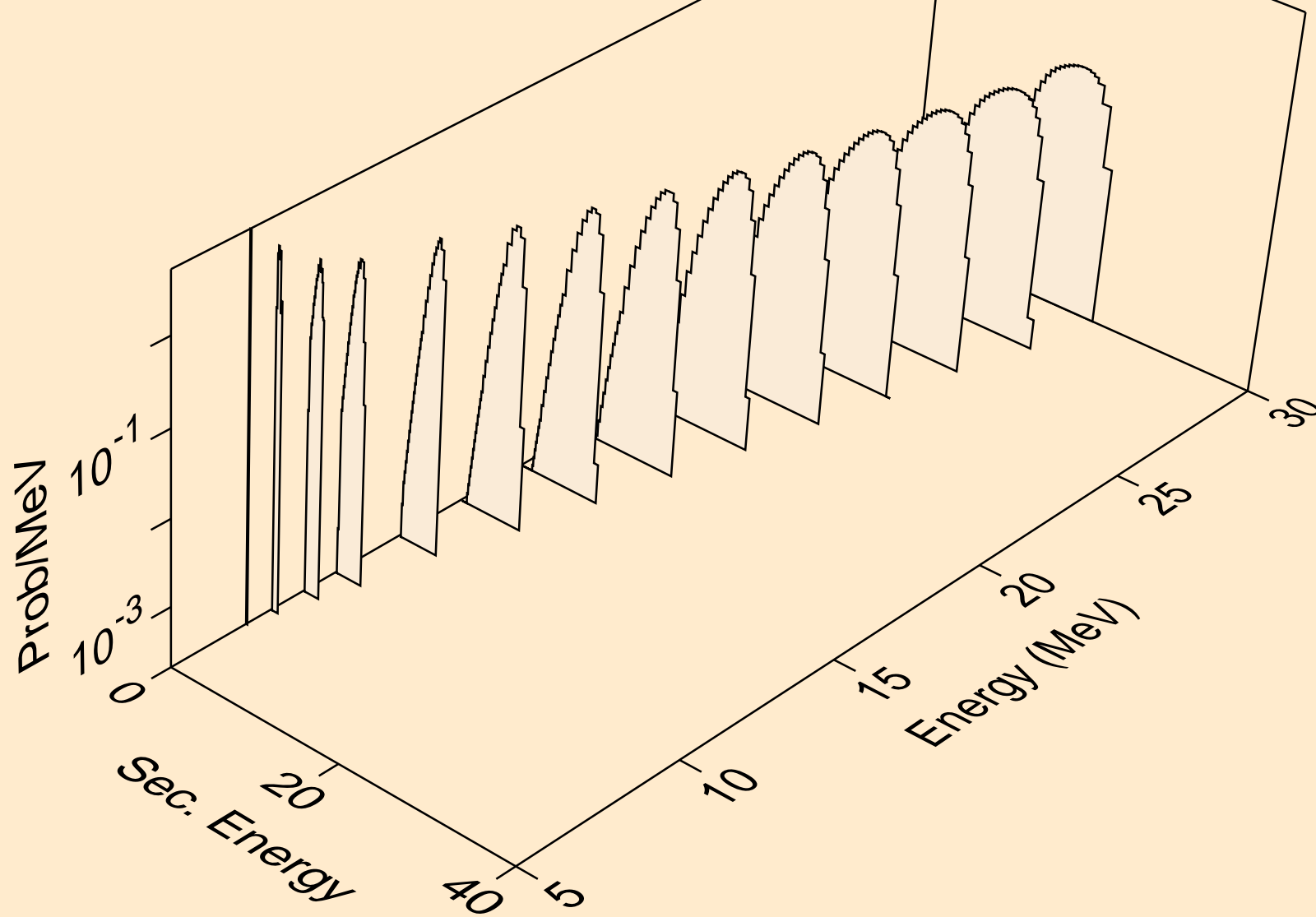


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deuterons from (s,x)

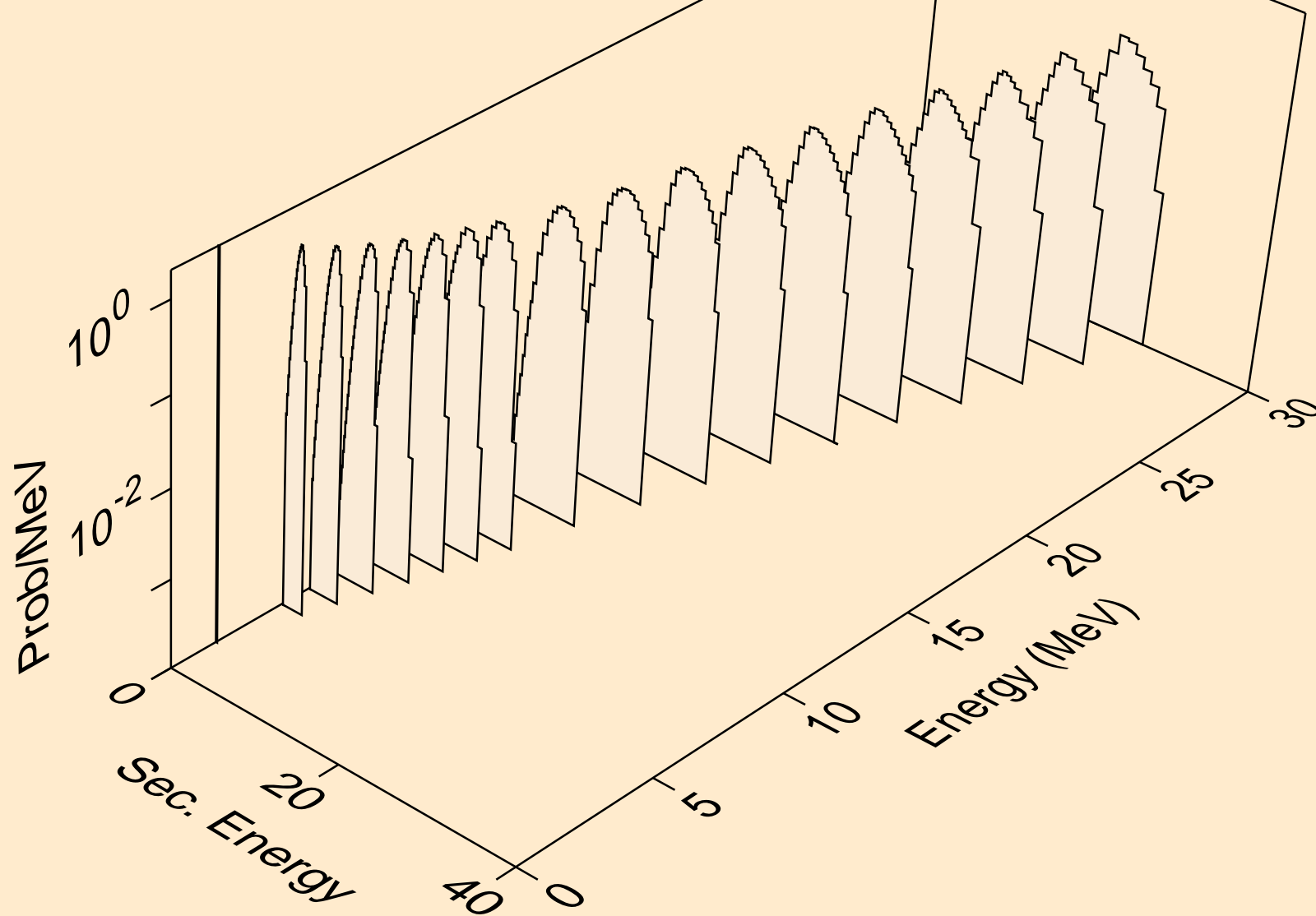




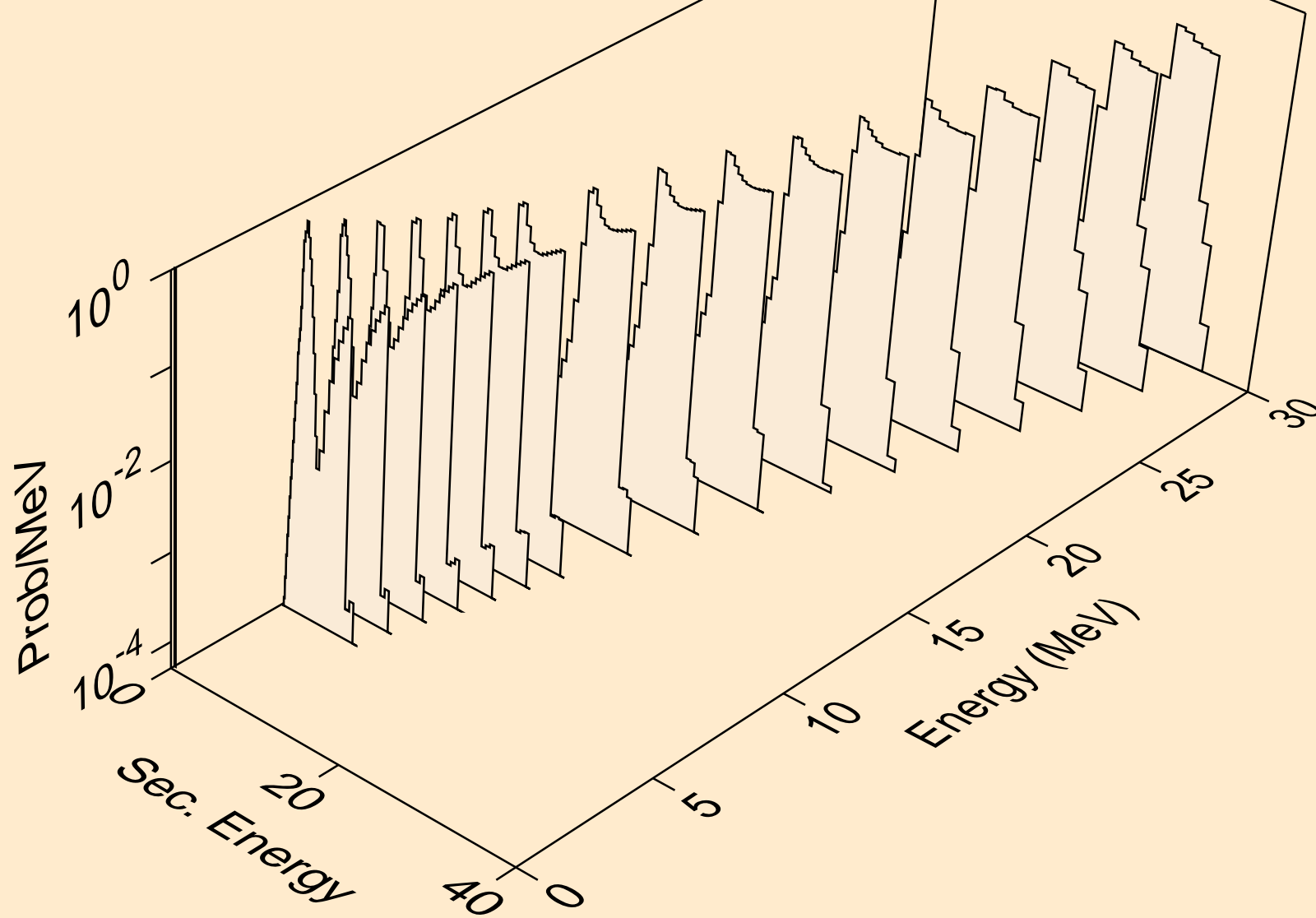
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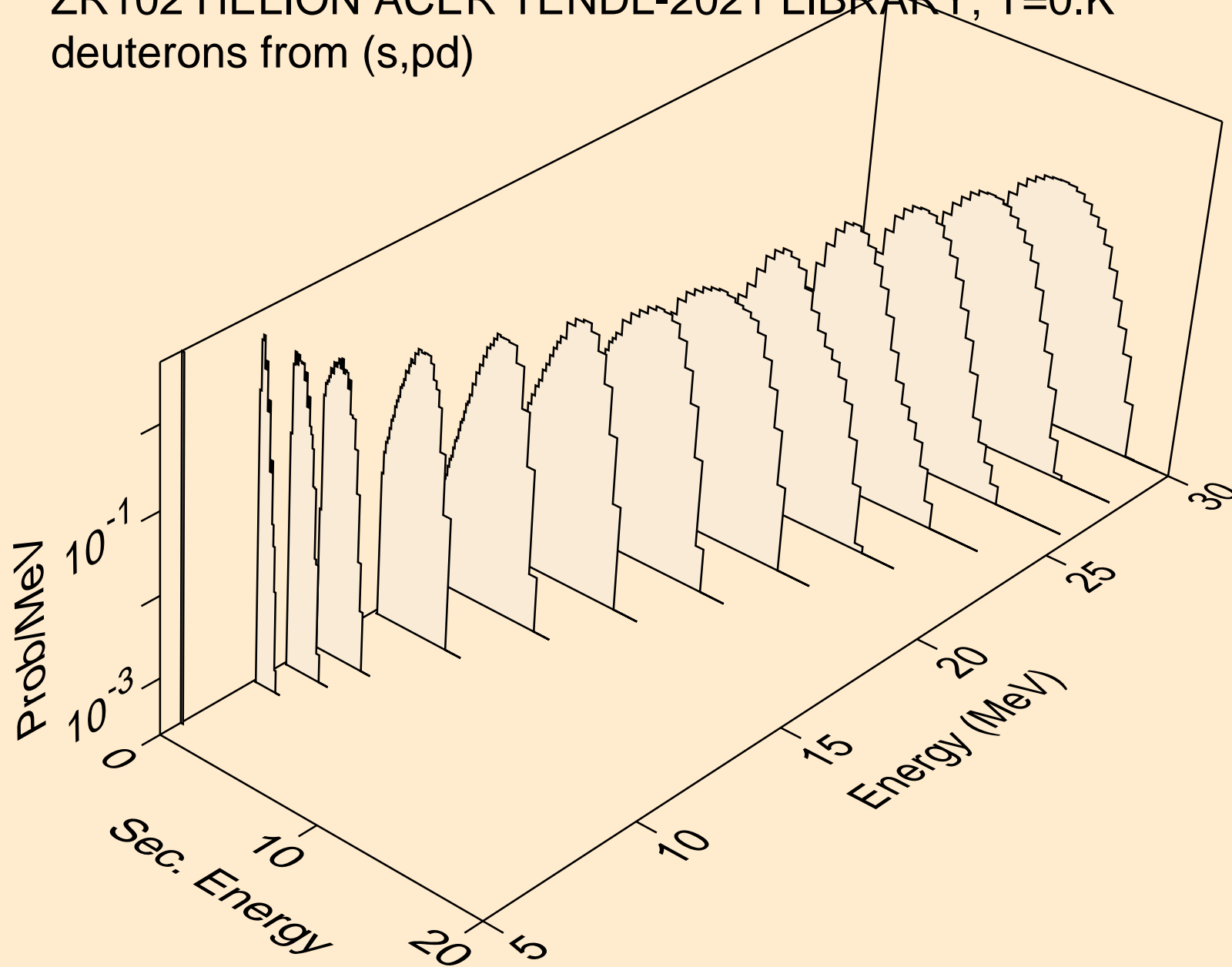
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deuterons from (s,n\*)d



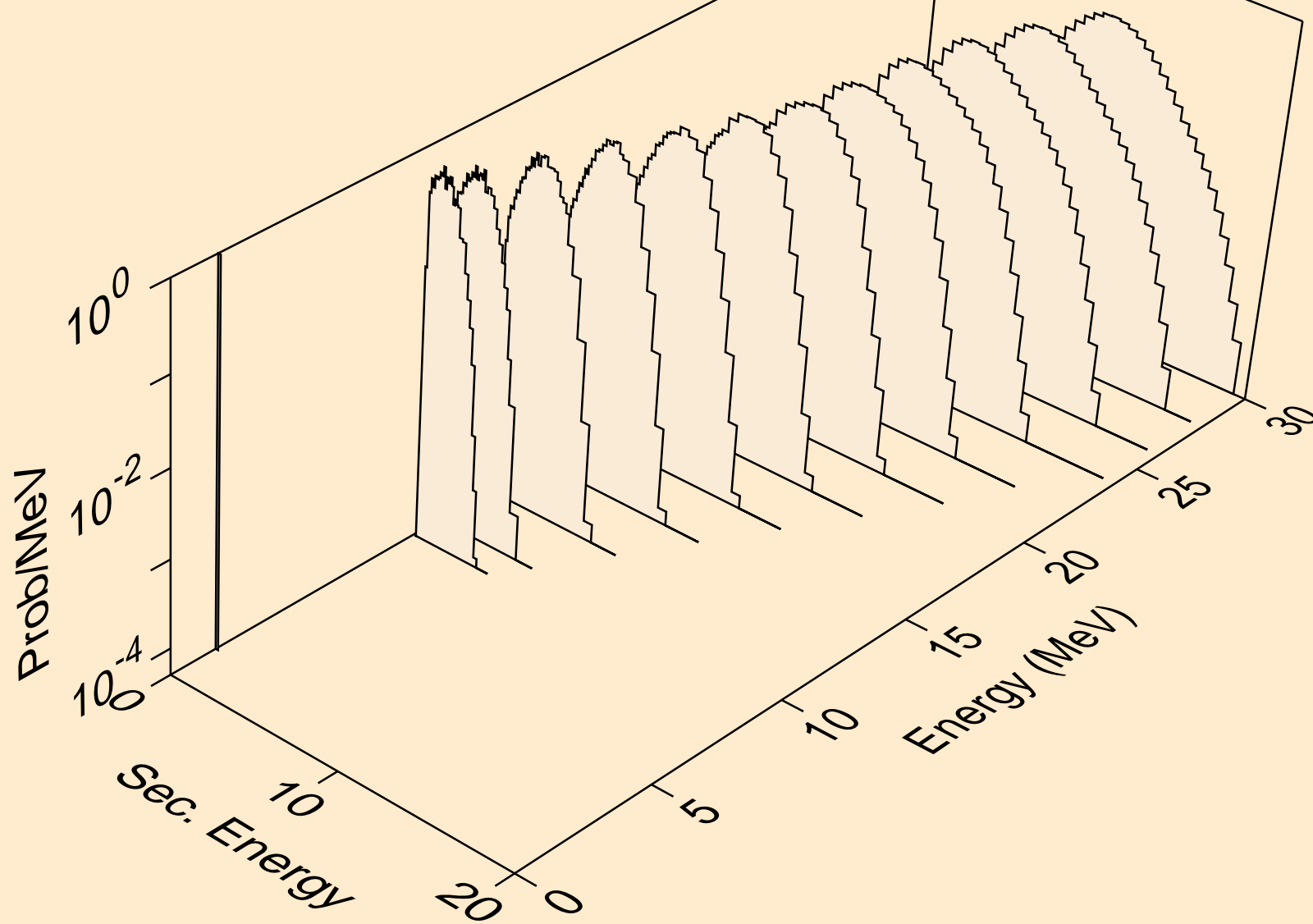
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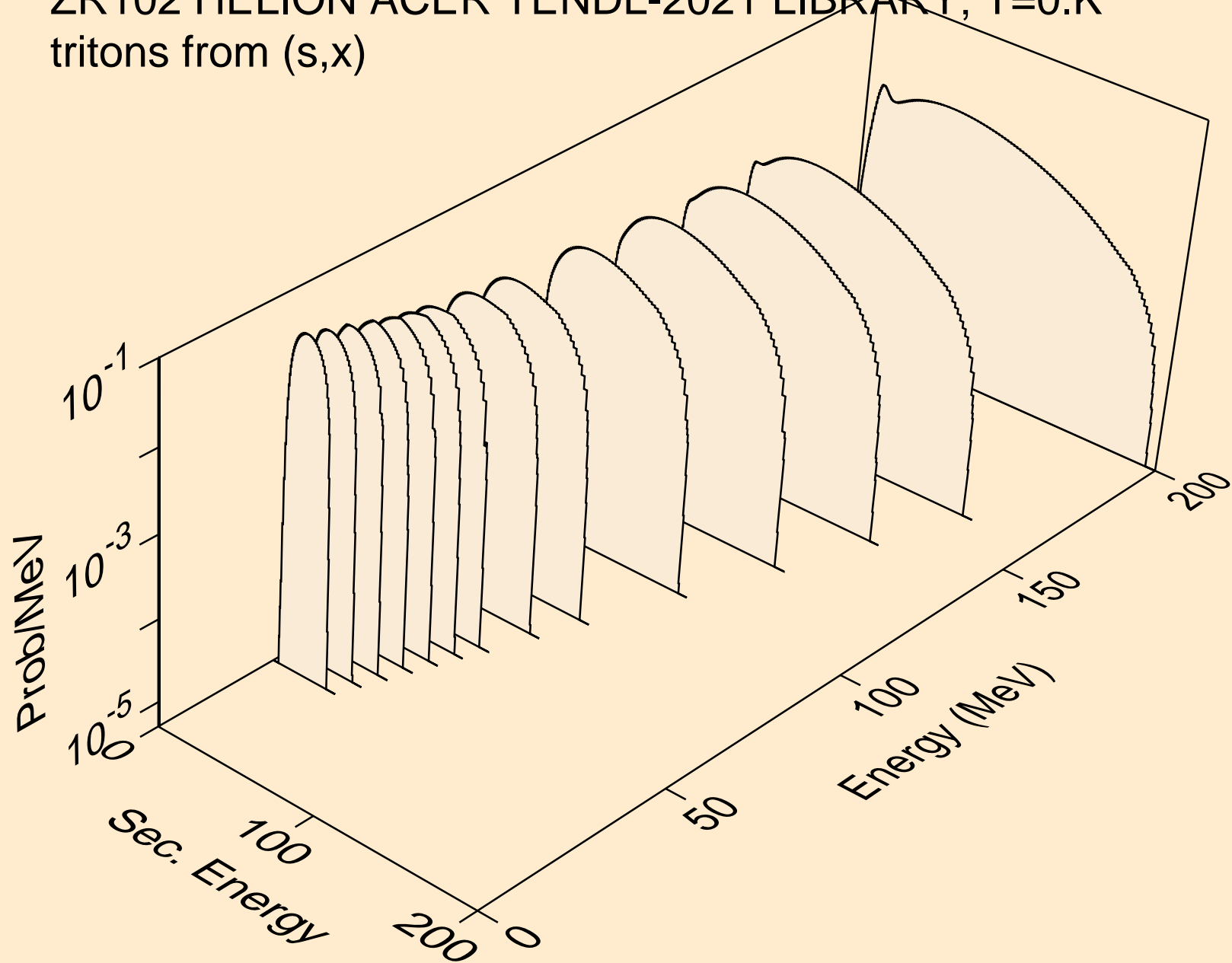
ZR102 HELION ACER TENDL-2021 LIBRARY; T=0.K  
deuterons from (s,pd)



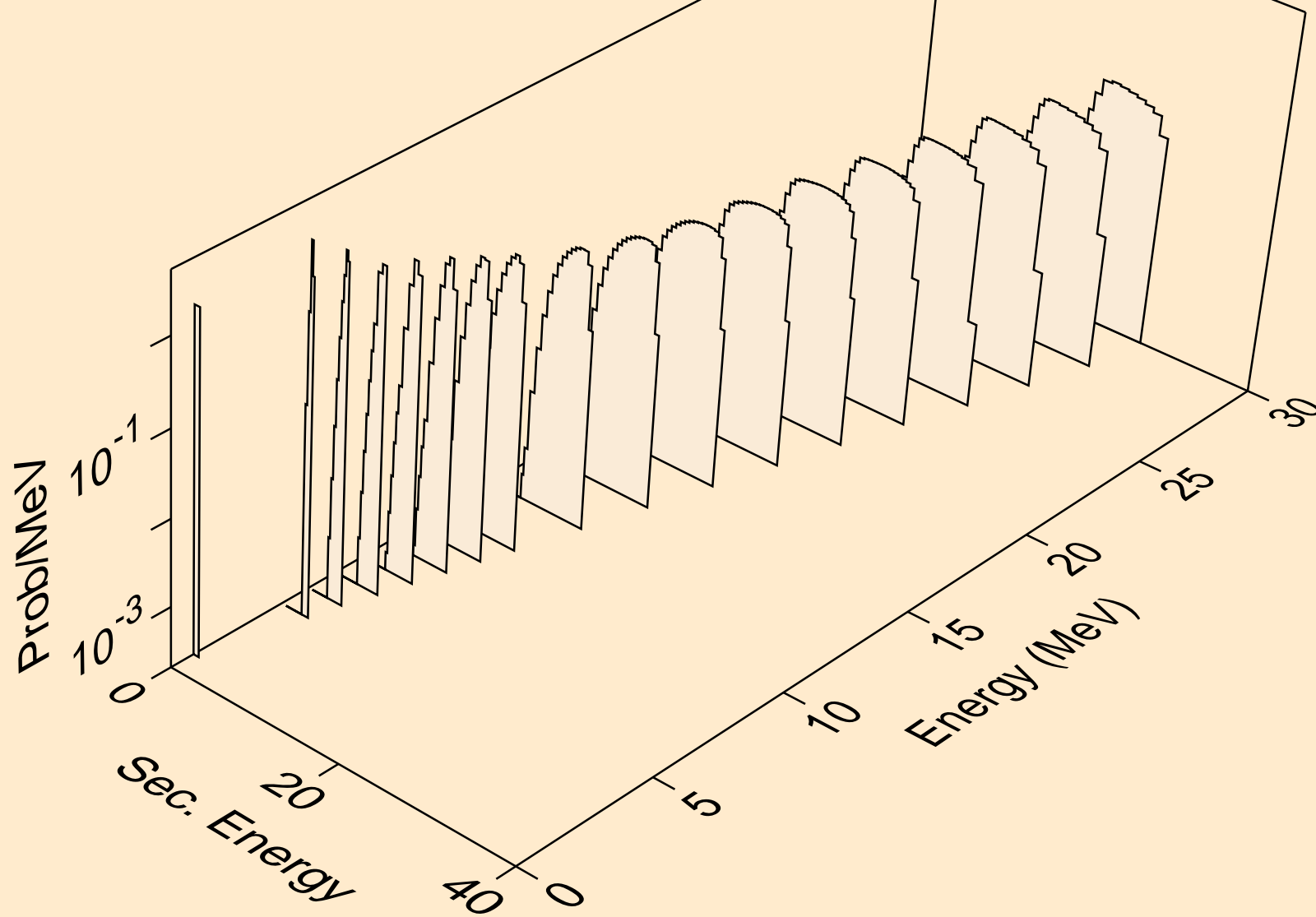
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deuterons from (s,da)



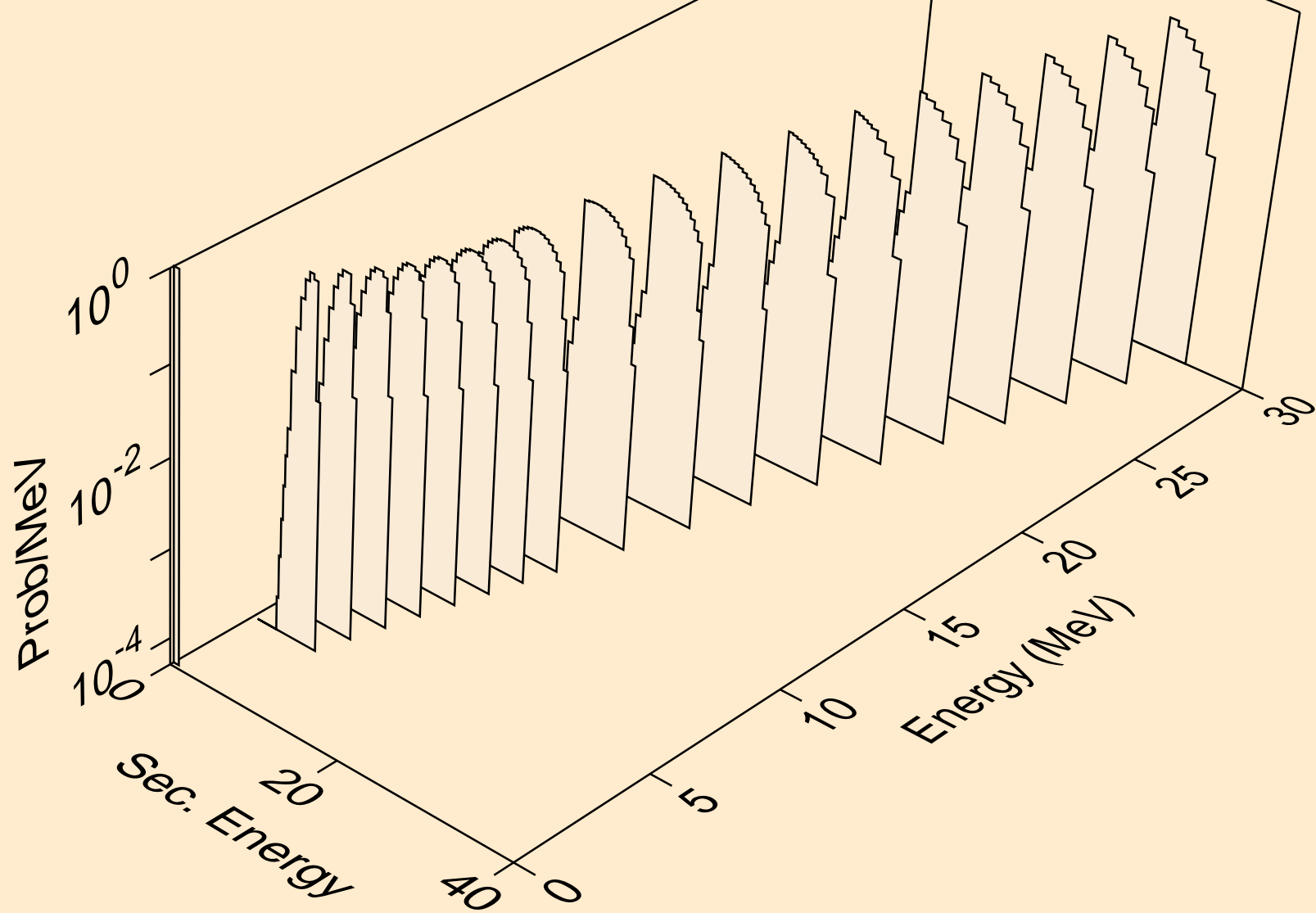
ZR102 HELION ACER TENDL-2021 LIBRARY; T=0.K  
tritons from (s,x)



ZR102 HELION ACER TENDL-2021 LIBRARY; T=0.K  
tritons from (s,n\*)t

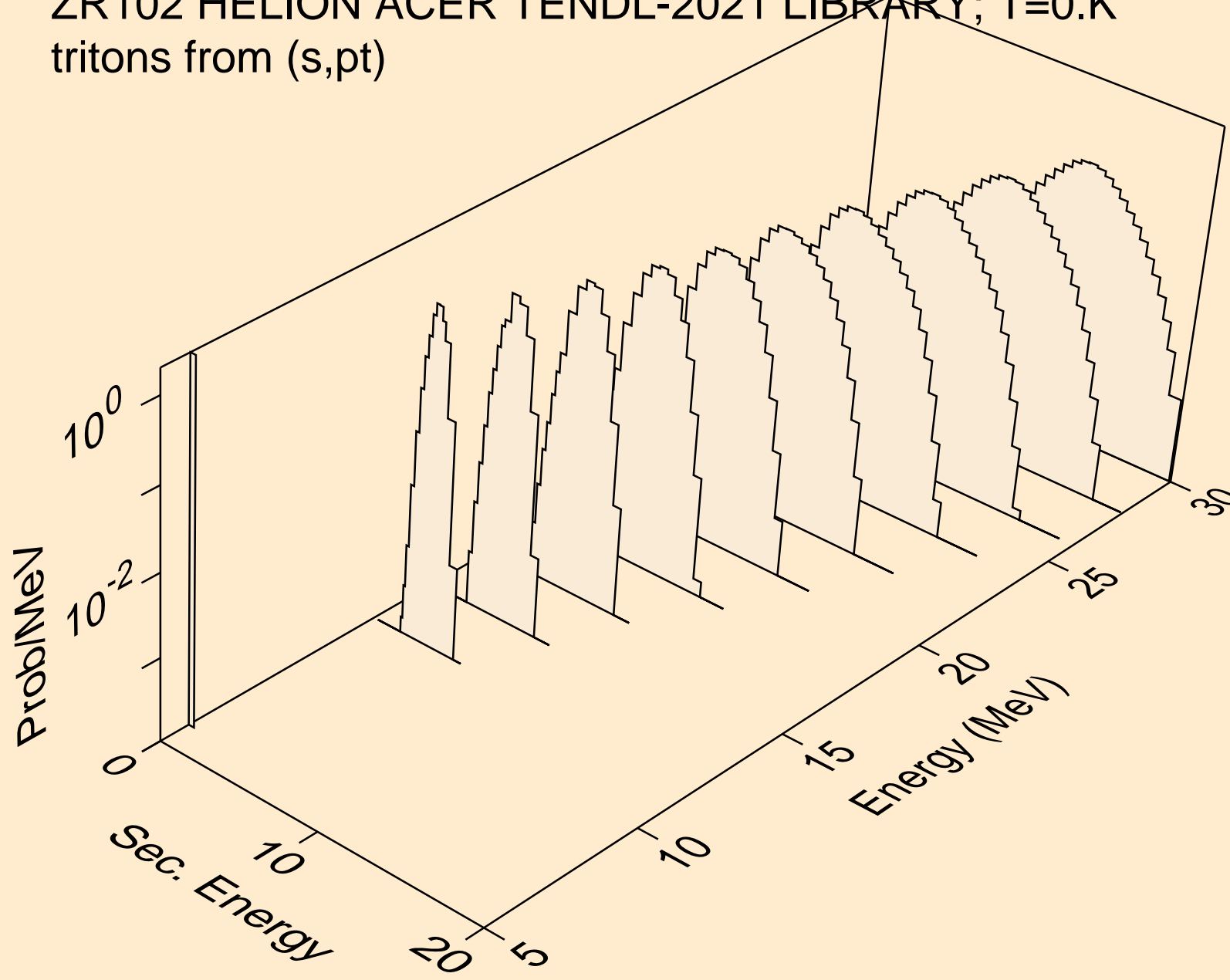


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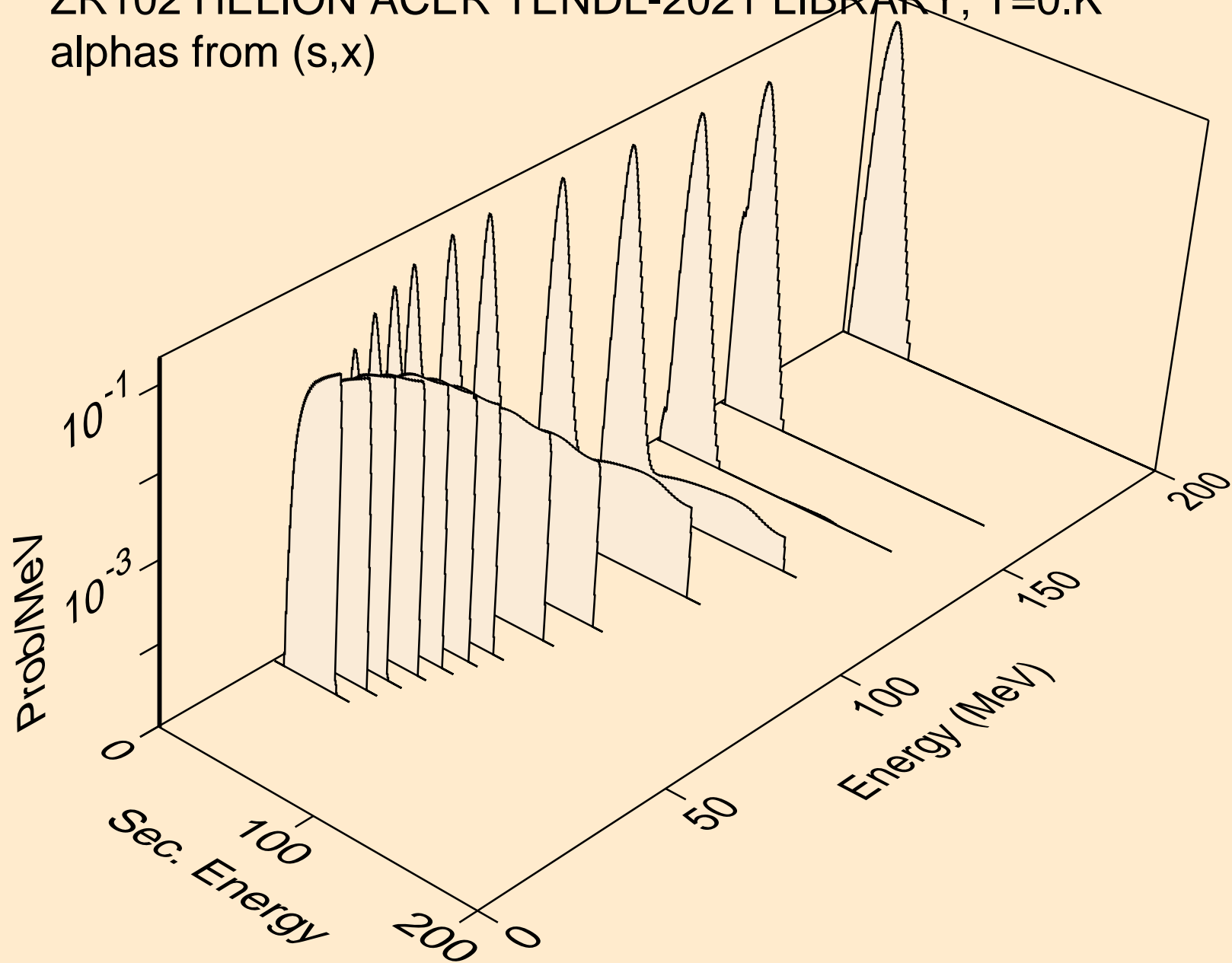




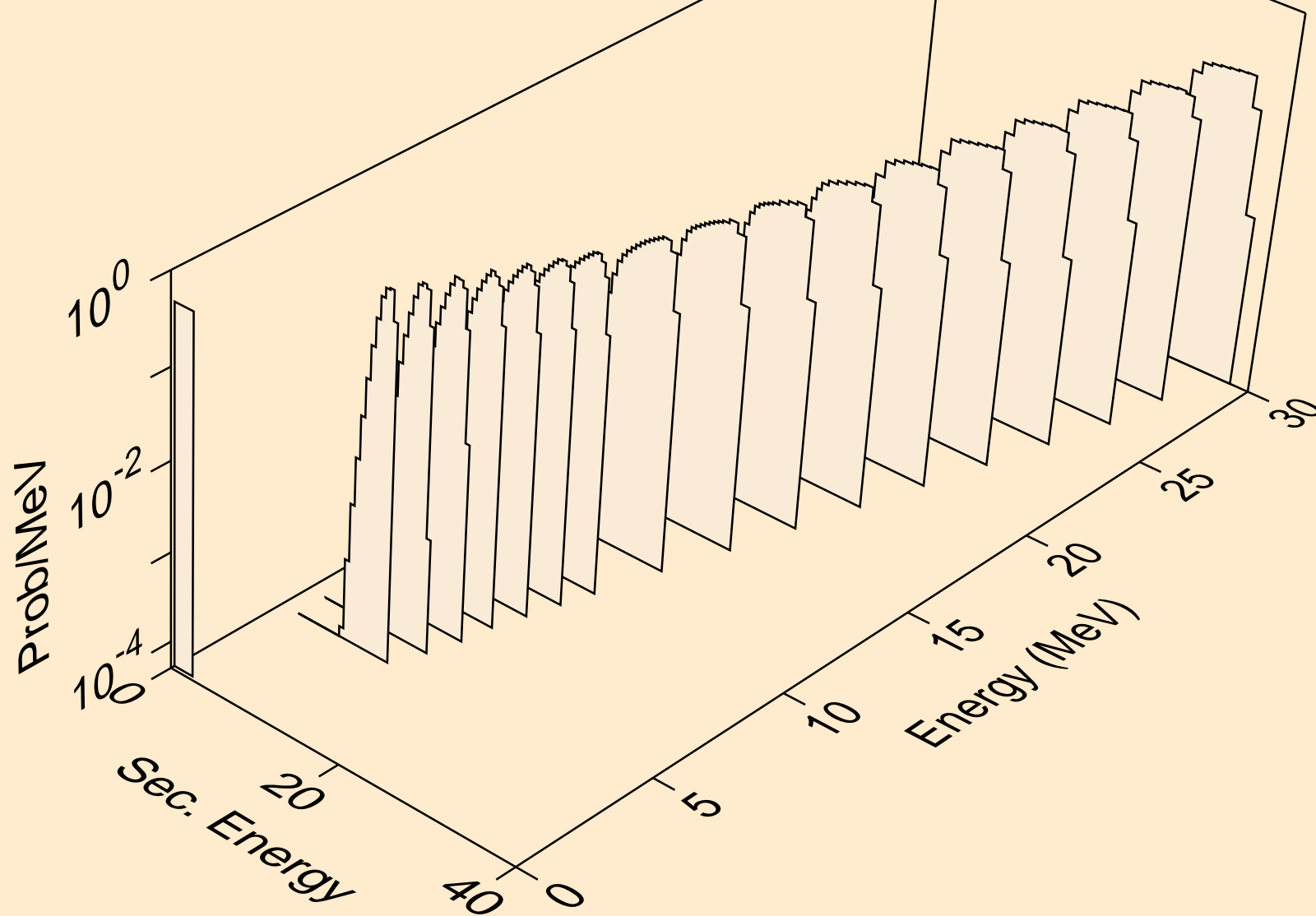
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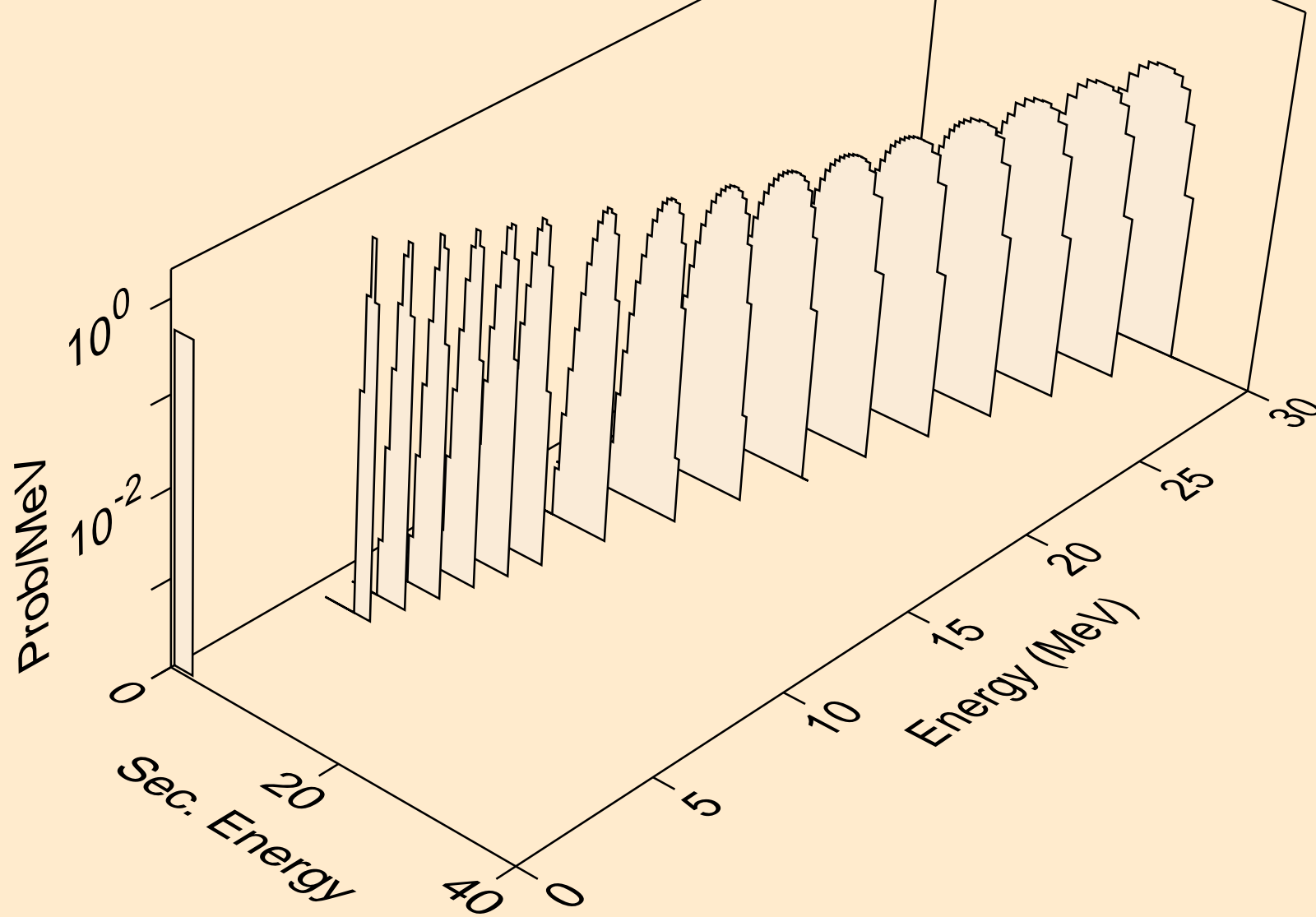
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alphas from (s,x)



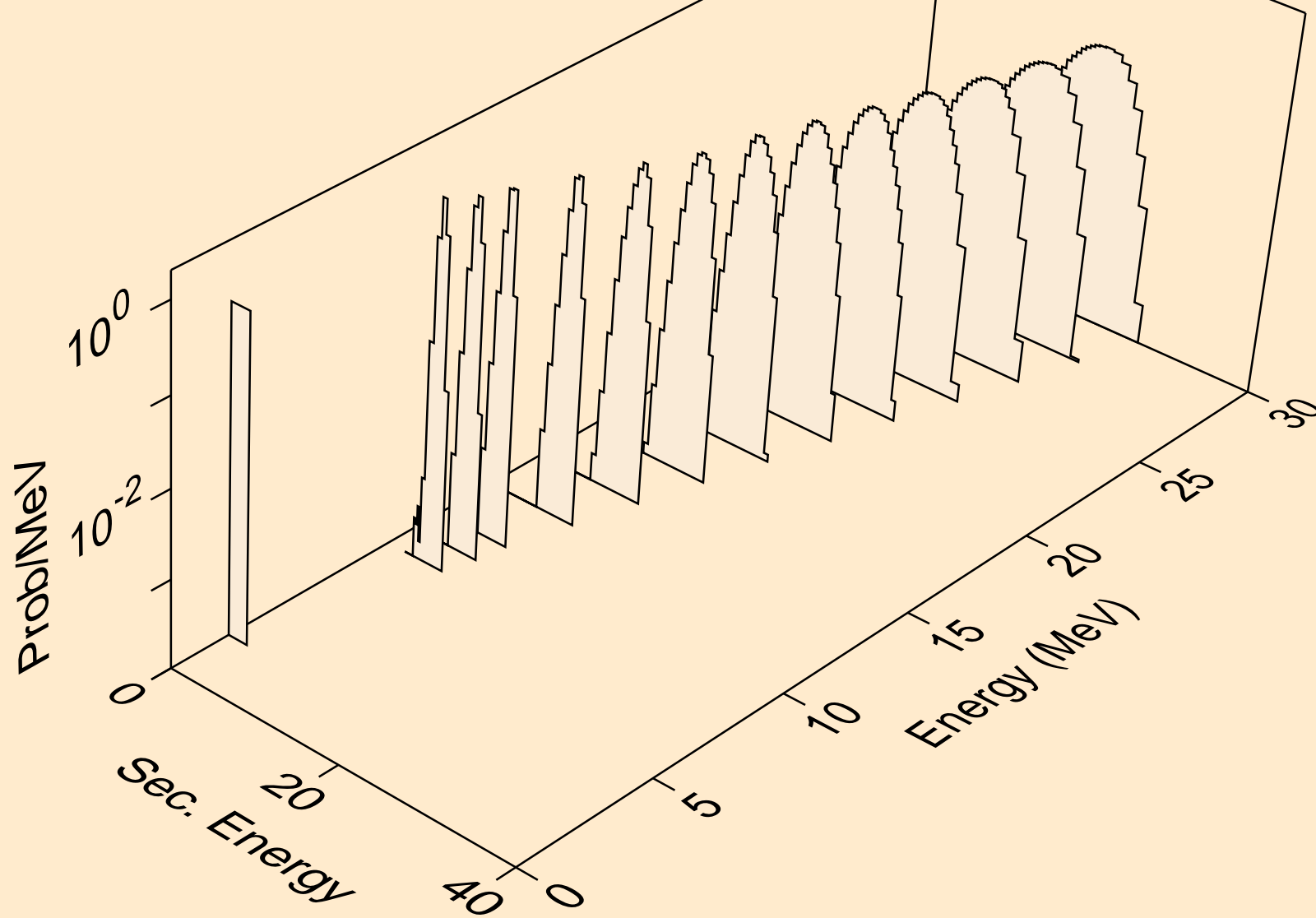
ZR102 HELION ACER TENDL-2021 LIBRARY; T=0.K  
alphas from (s,n\*)a



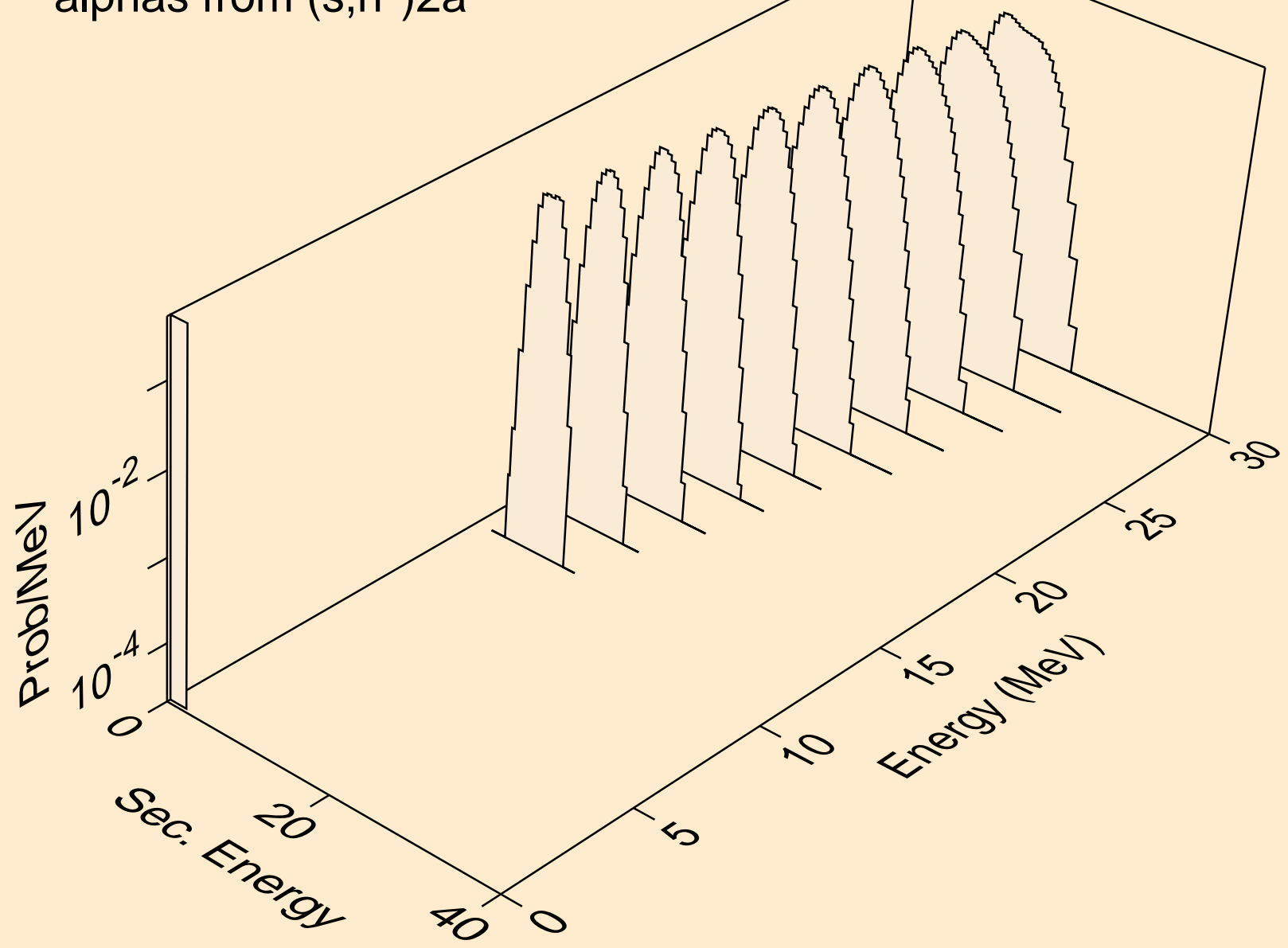
ZR102 HELION ACER TENDL-2021 LIBRARY; T=0.K  
alphas from (s,2n)a



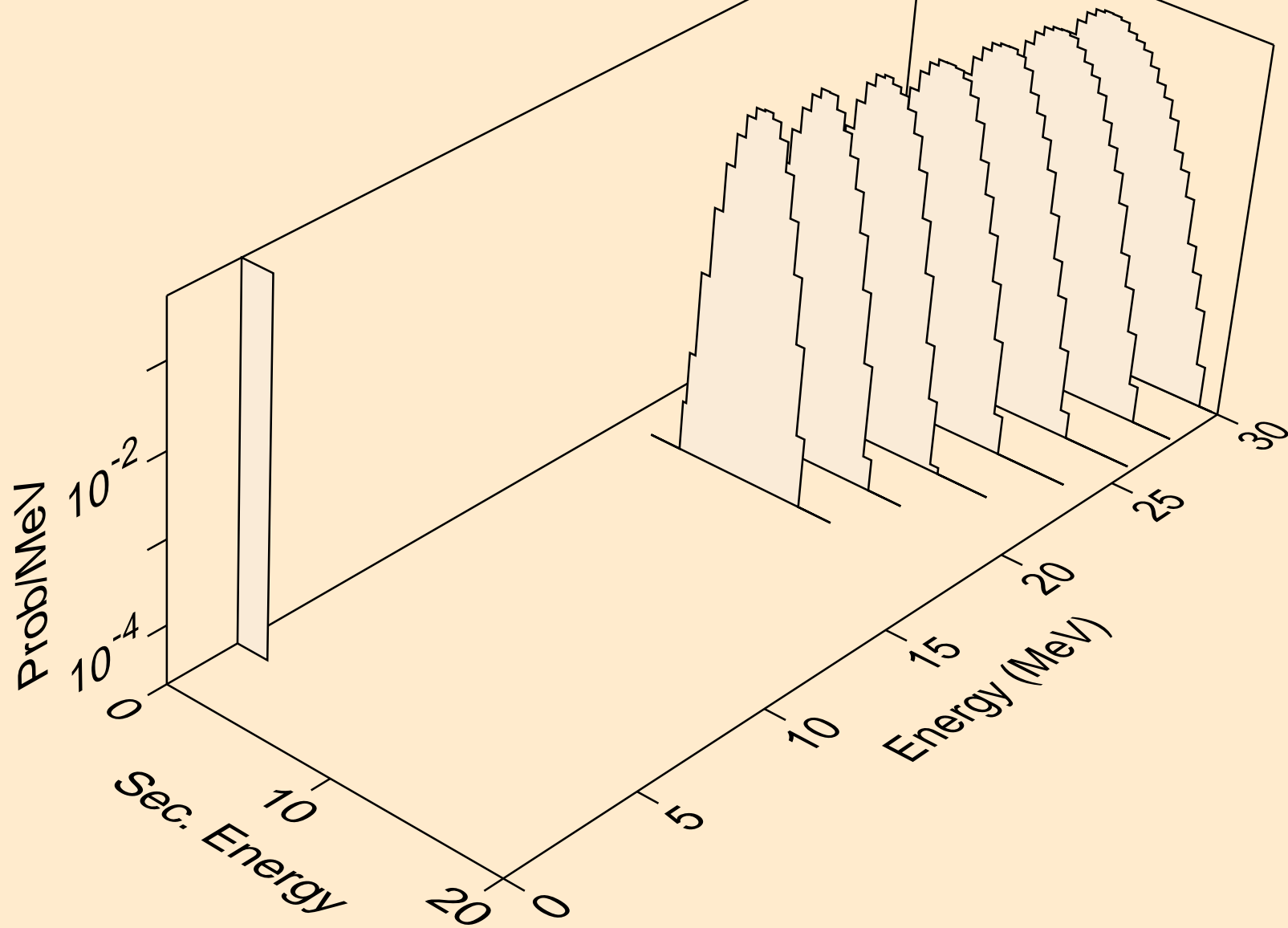
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alphas from (s,3n)a



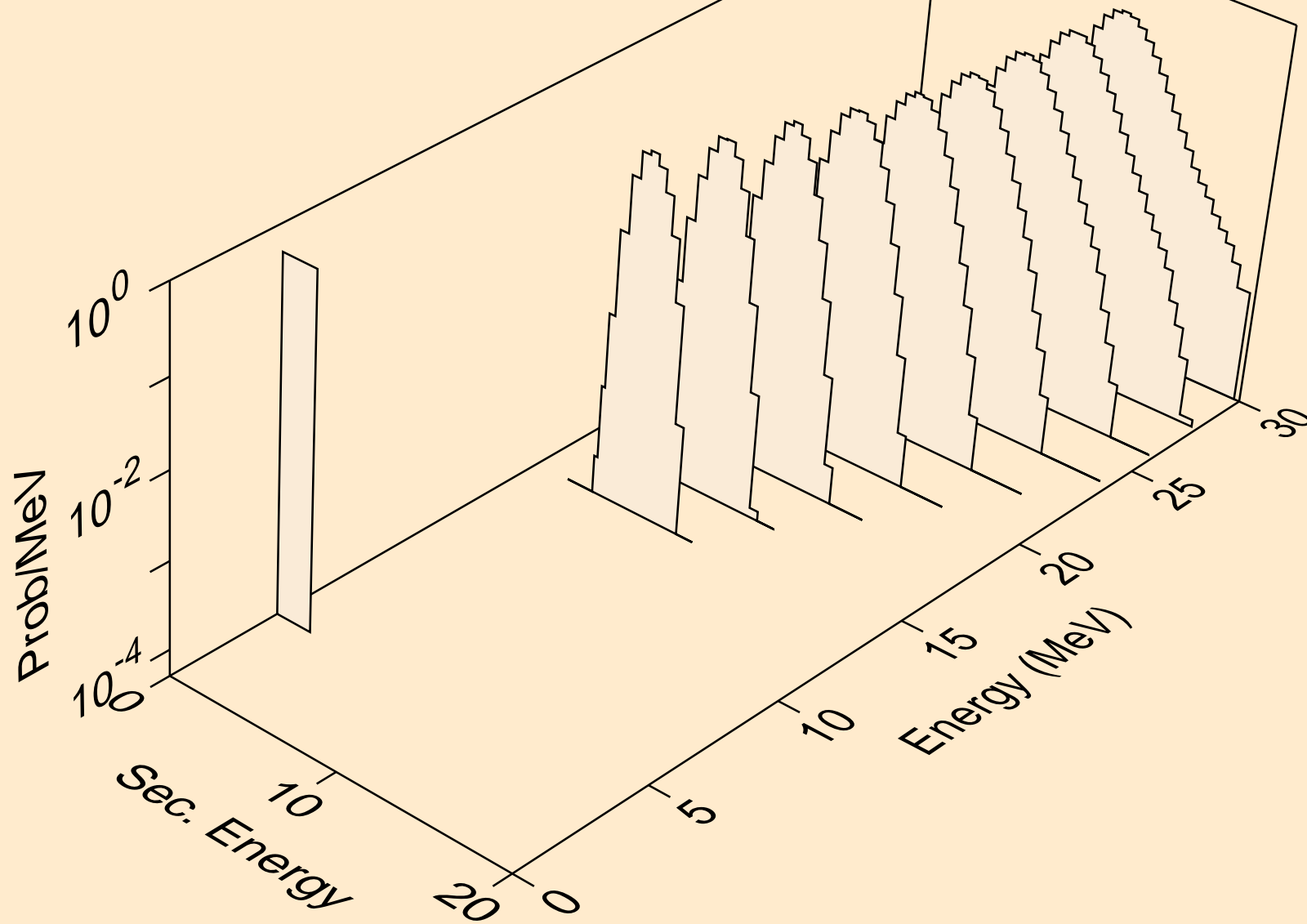
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alphas from (s,n\*)2a



ZR102 HELION ACER TENDL-2021 LIBRARY; T=0.K  
alphas from (s,2n)2a

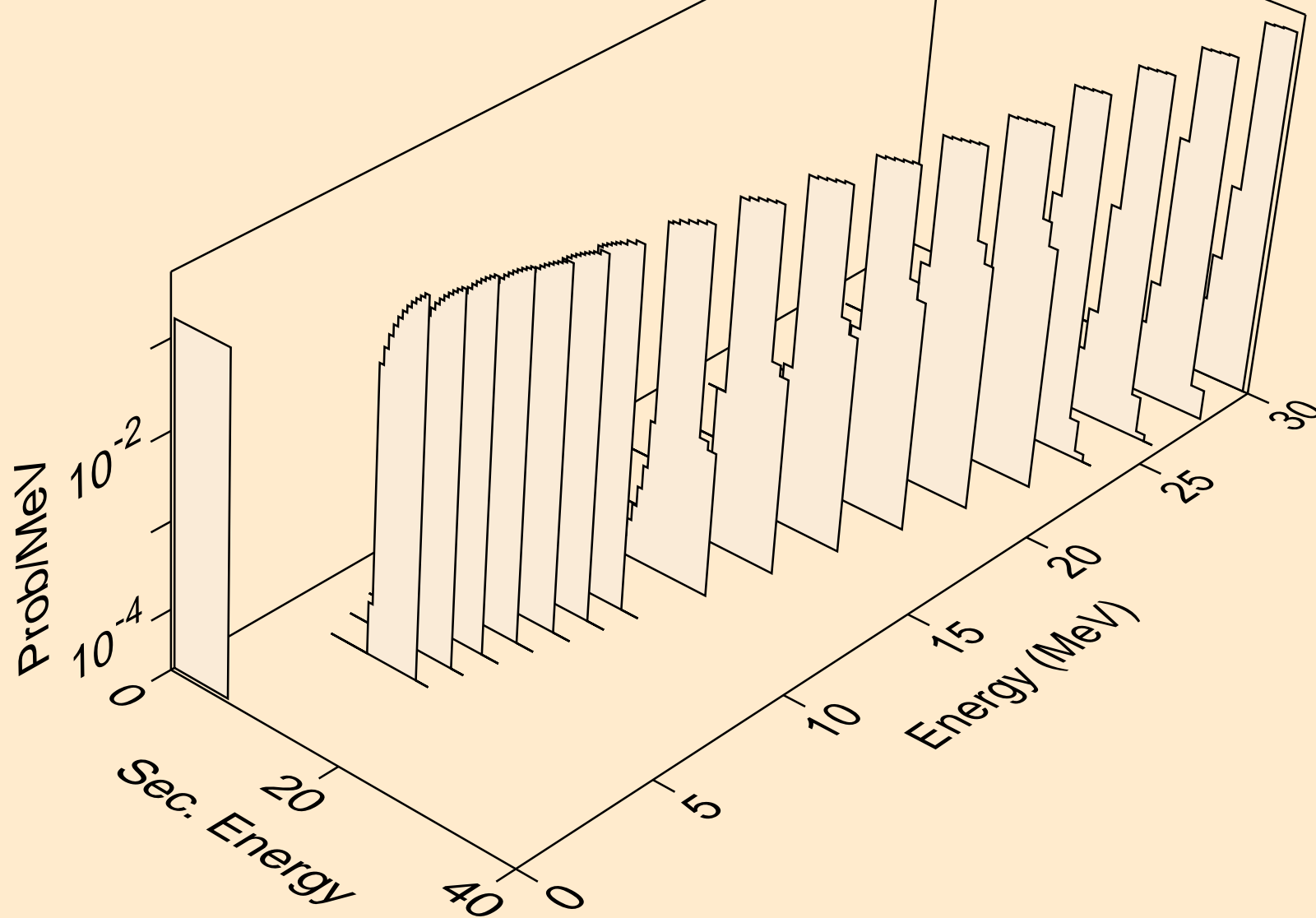


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alphas from (s,npa)

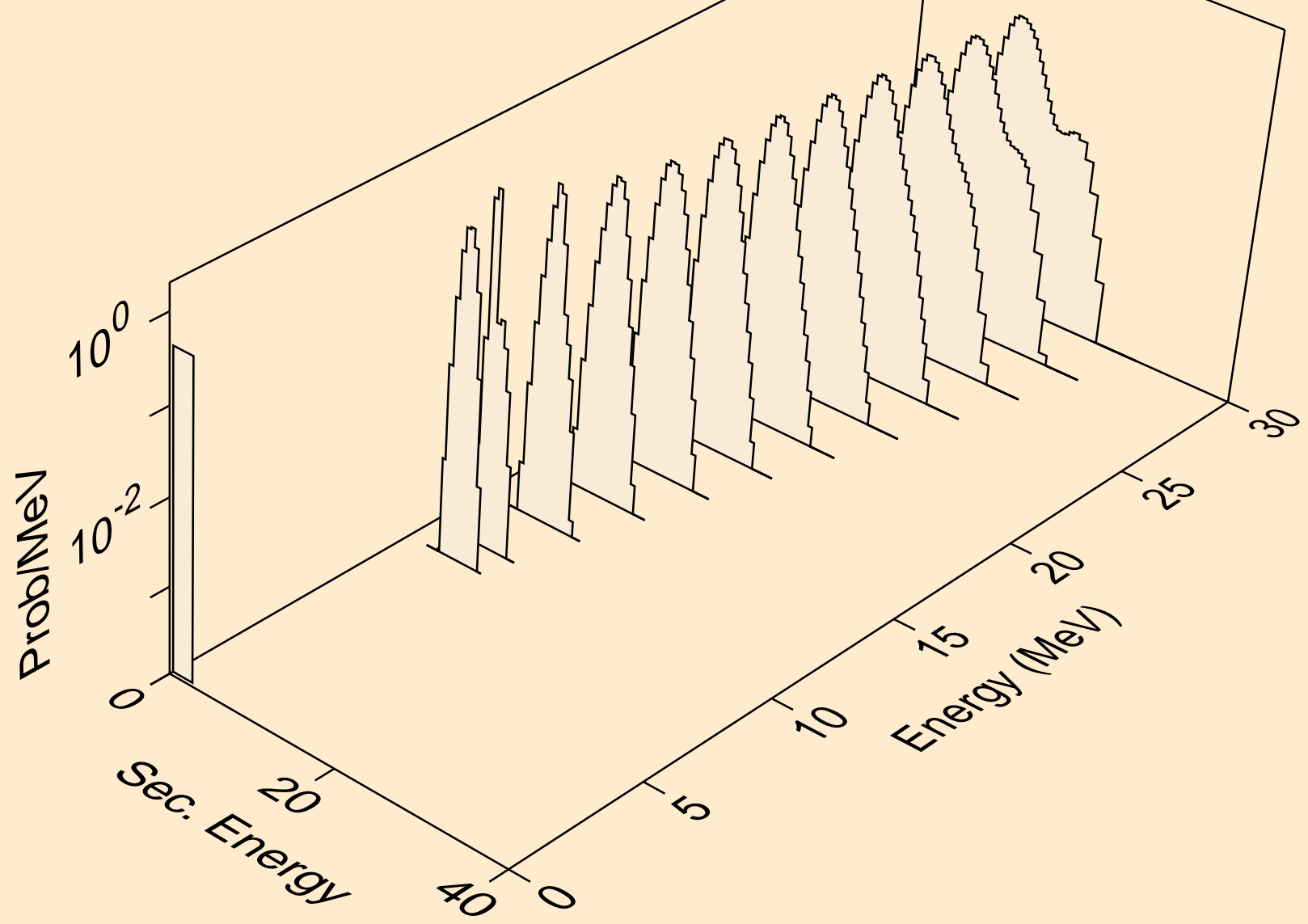




ZR102 HELION ACER TENDL-2021 LIBRARY; T=0.K  
alphas from (s,a)



ZR102 HELION ACER TENDL-2021 LIBRARY; T=0.K  
alphas from (s,pa)



ZR102 HELION ACER TENDL-2021 LIBRARY; T=0.K  
alphas from (s,da)

