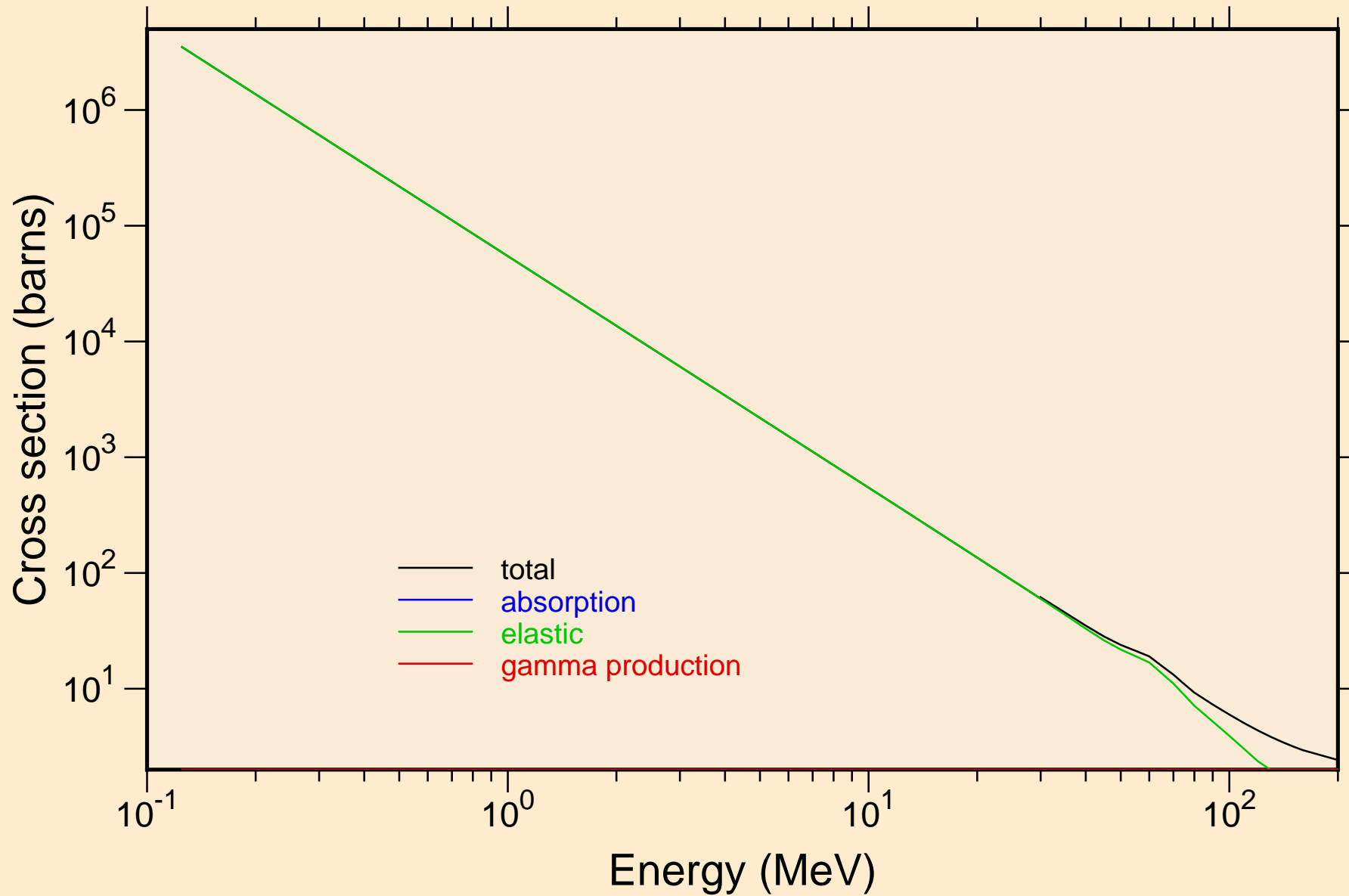
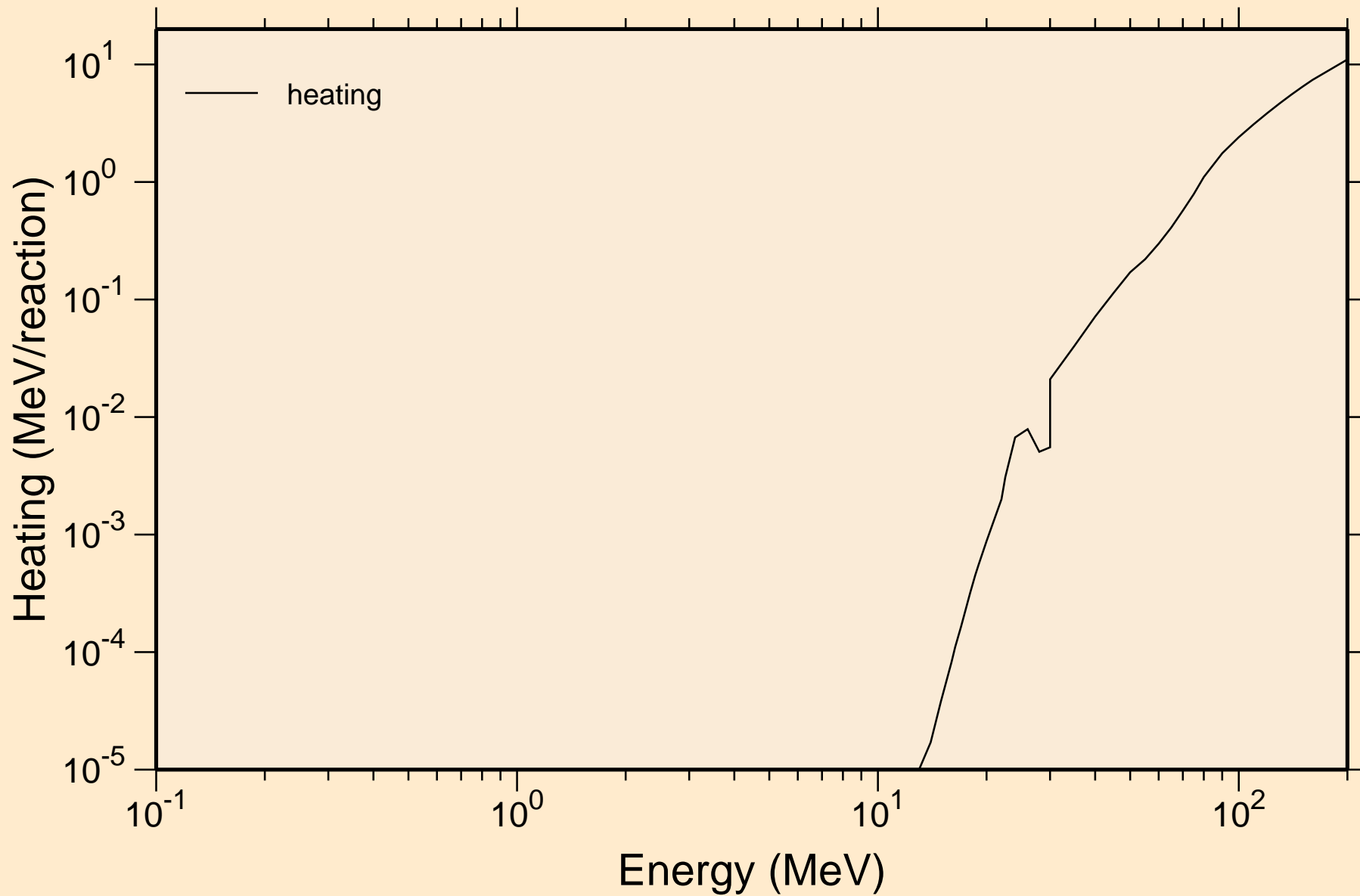


PU239 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
Principal cross sections

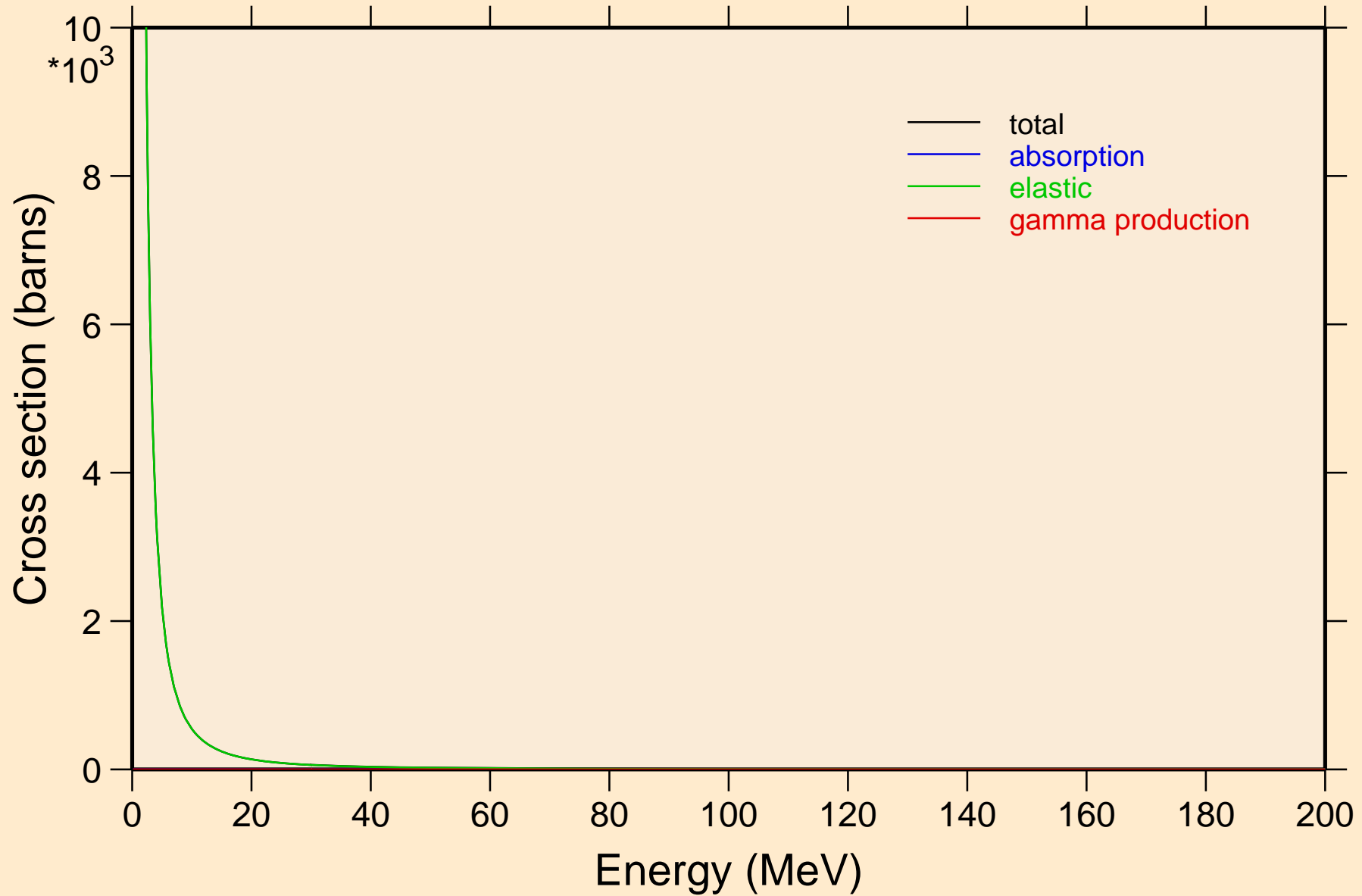


PU239 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
Heating



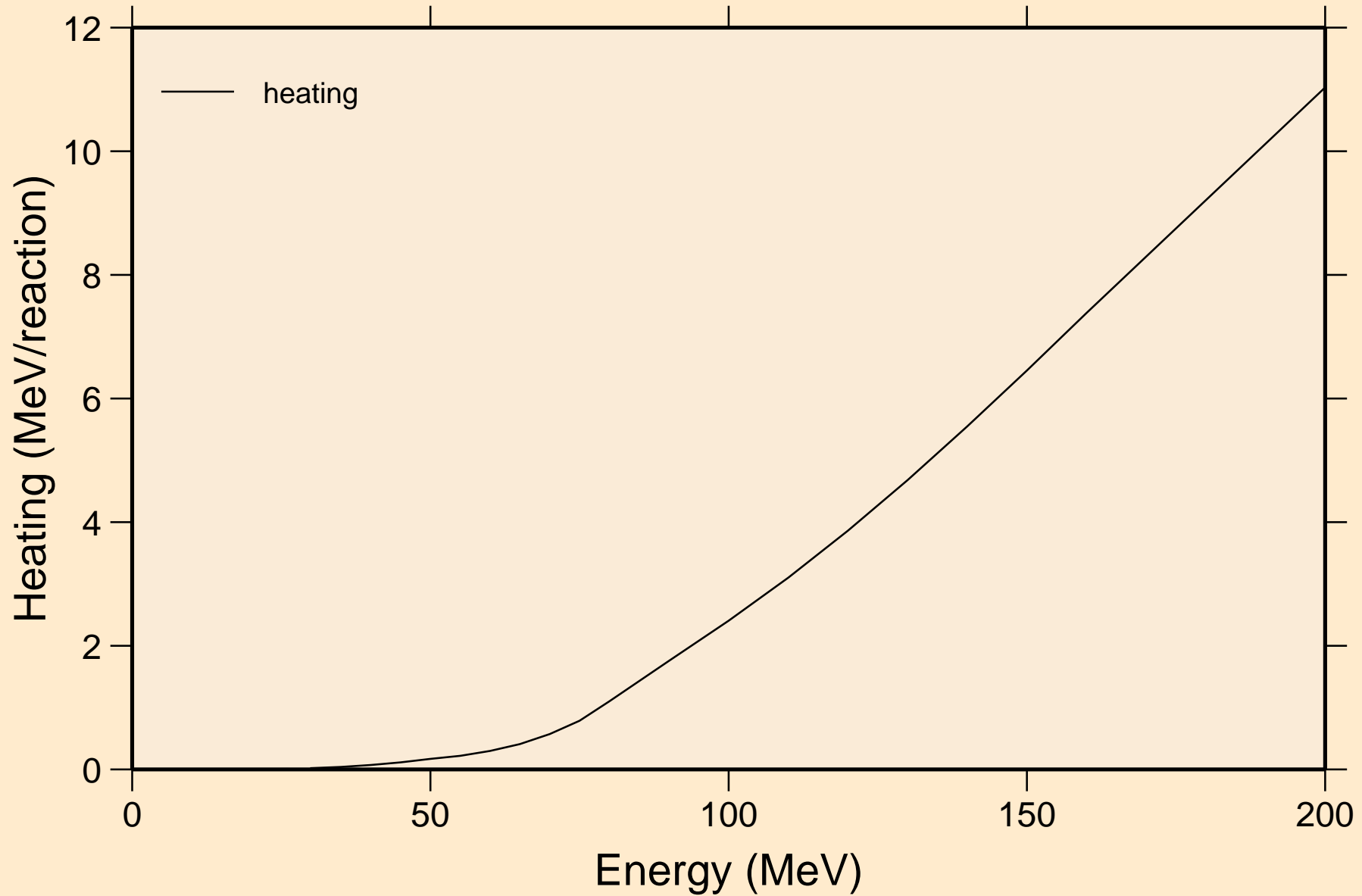
# PU239 PROTON ACER TENDL-2021 LIBRARY; T=0.K

## Principal cross sections

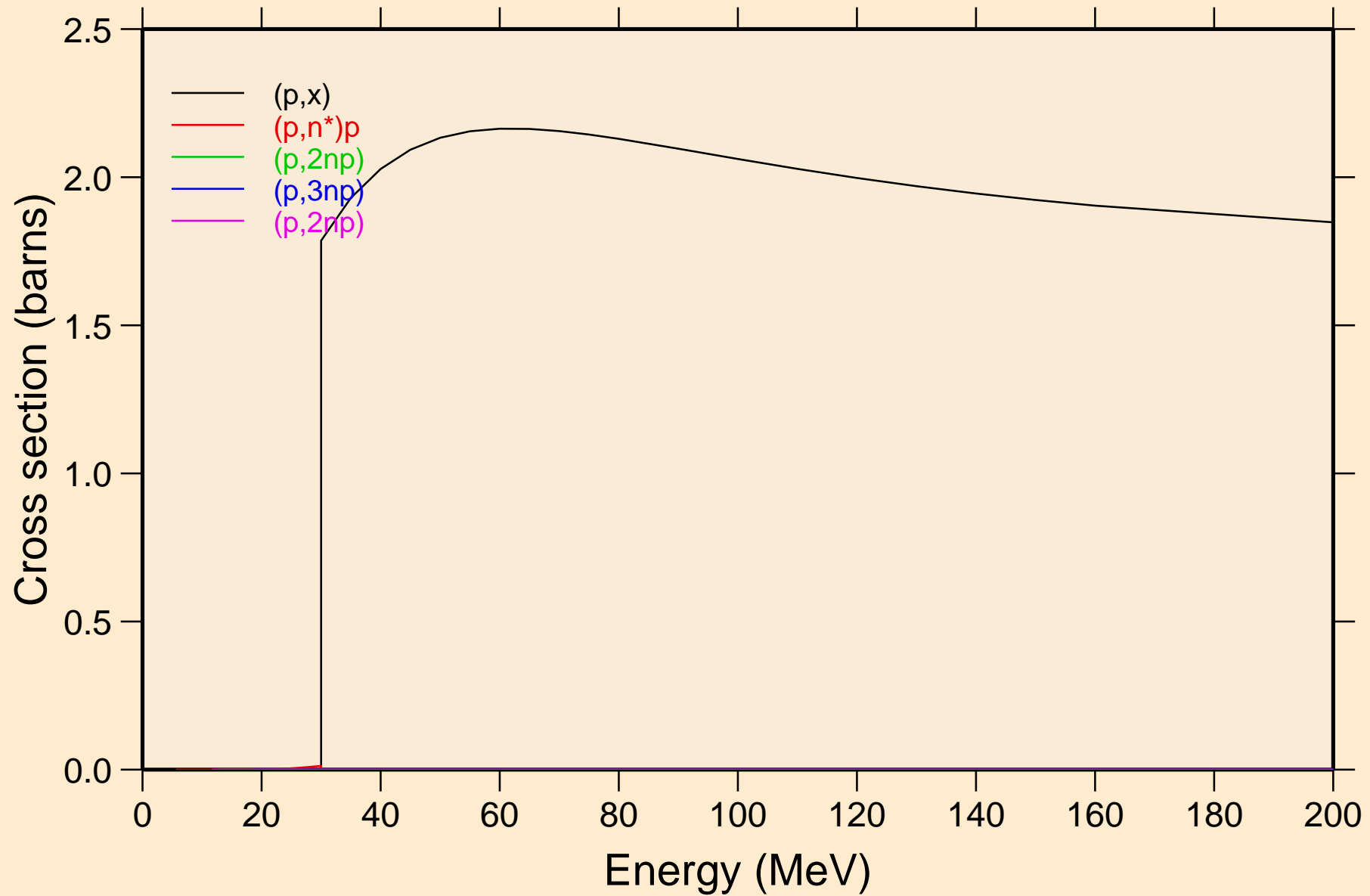


PU239 PROTON ACER TENDL-2021 LIBRARY; T=0.K

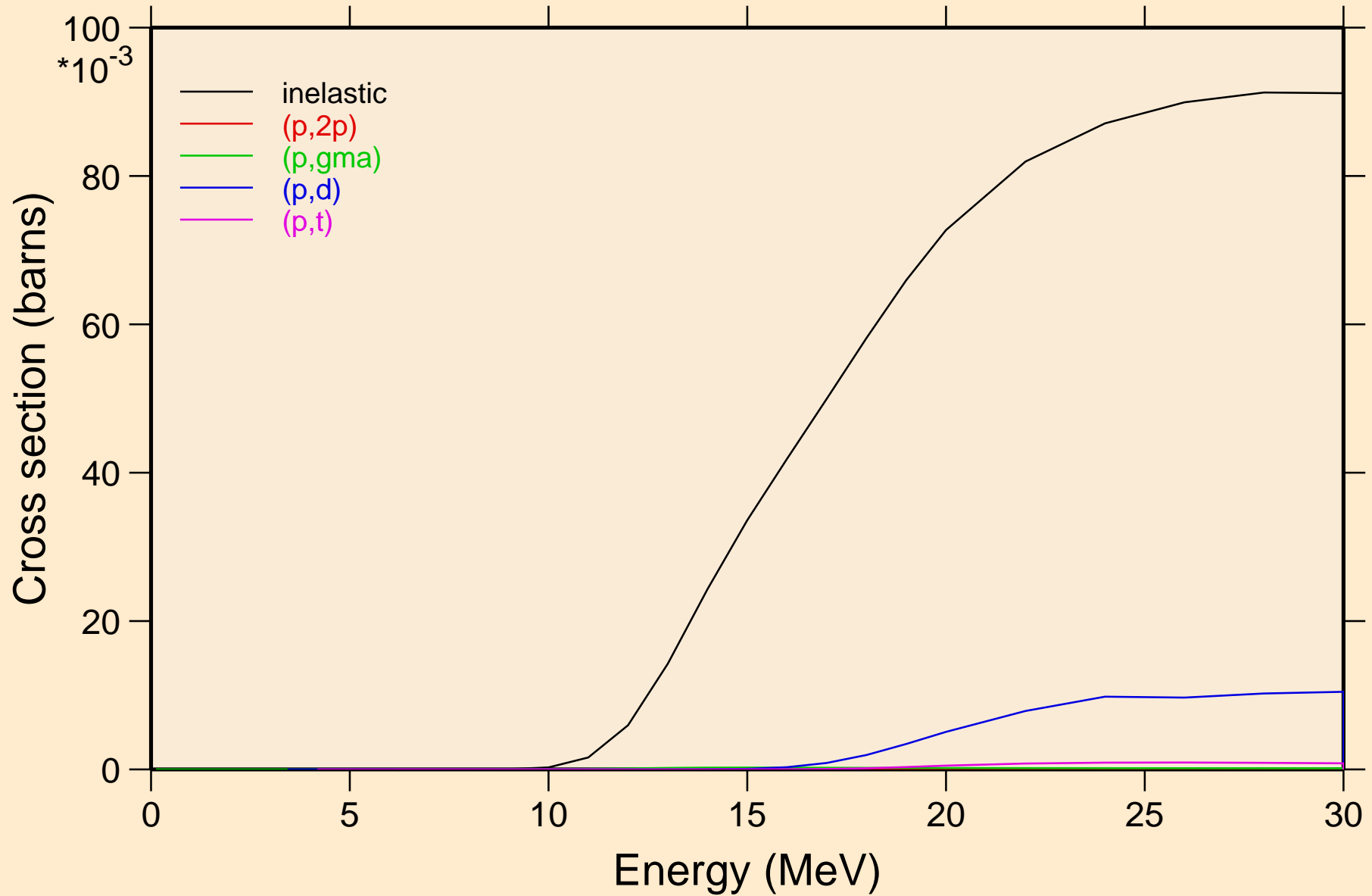
Heating



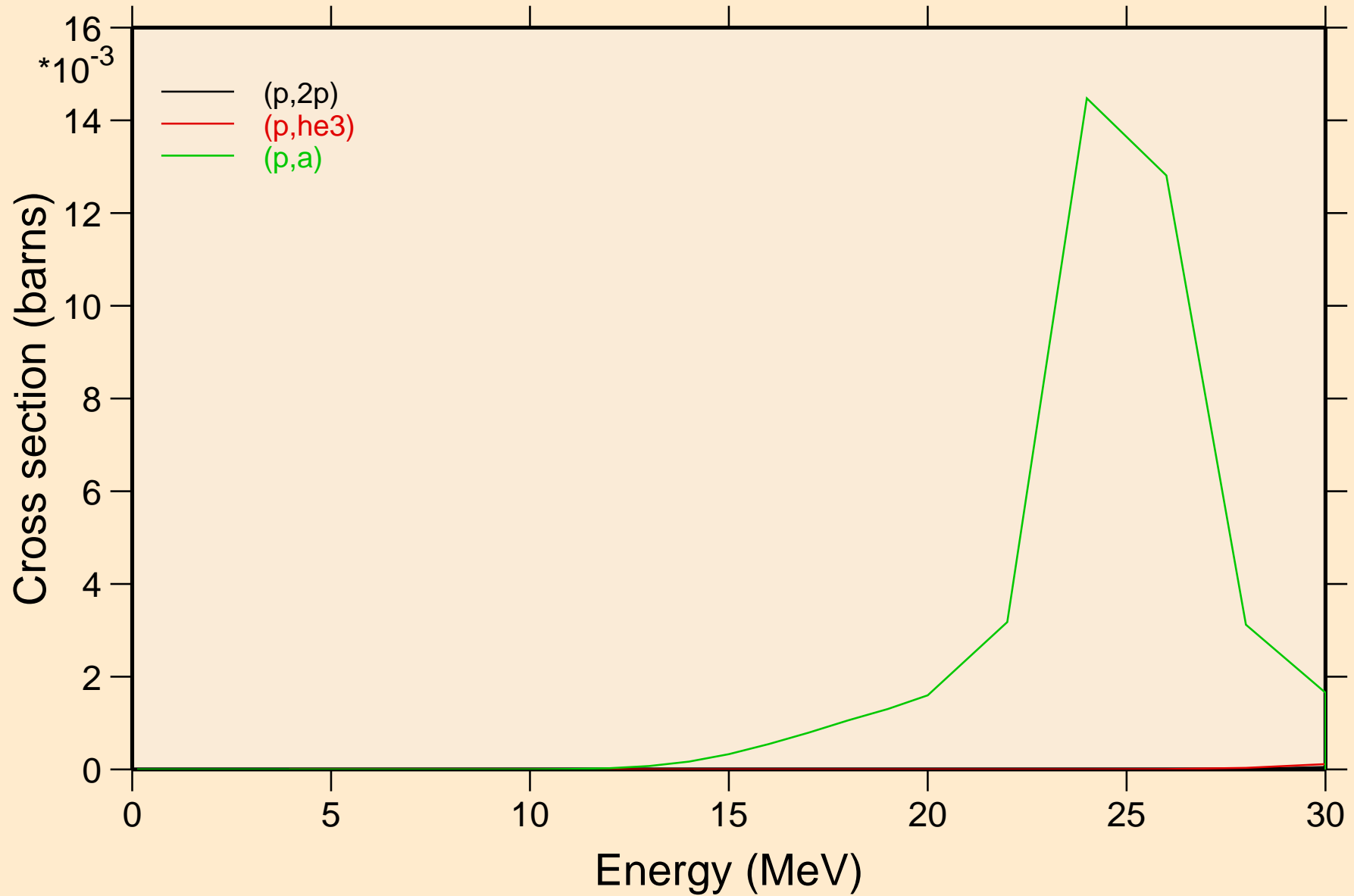
PU239 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
Threshold reactions



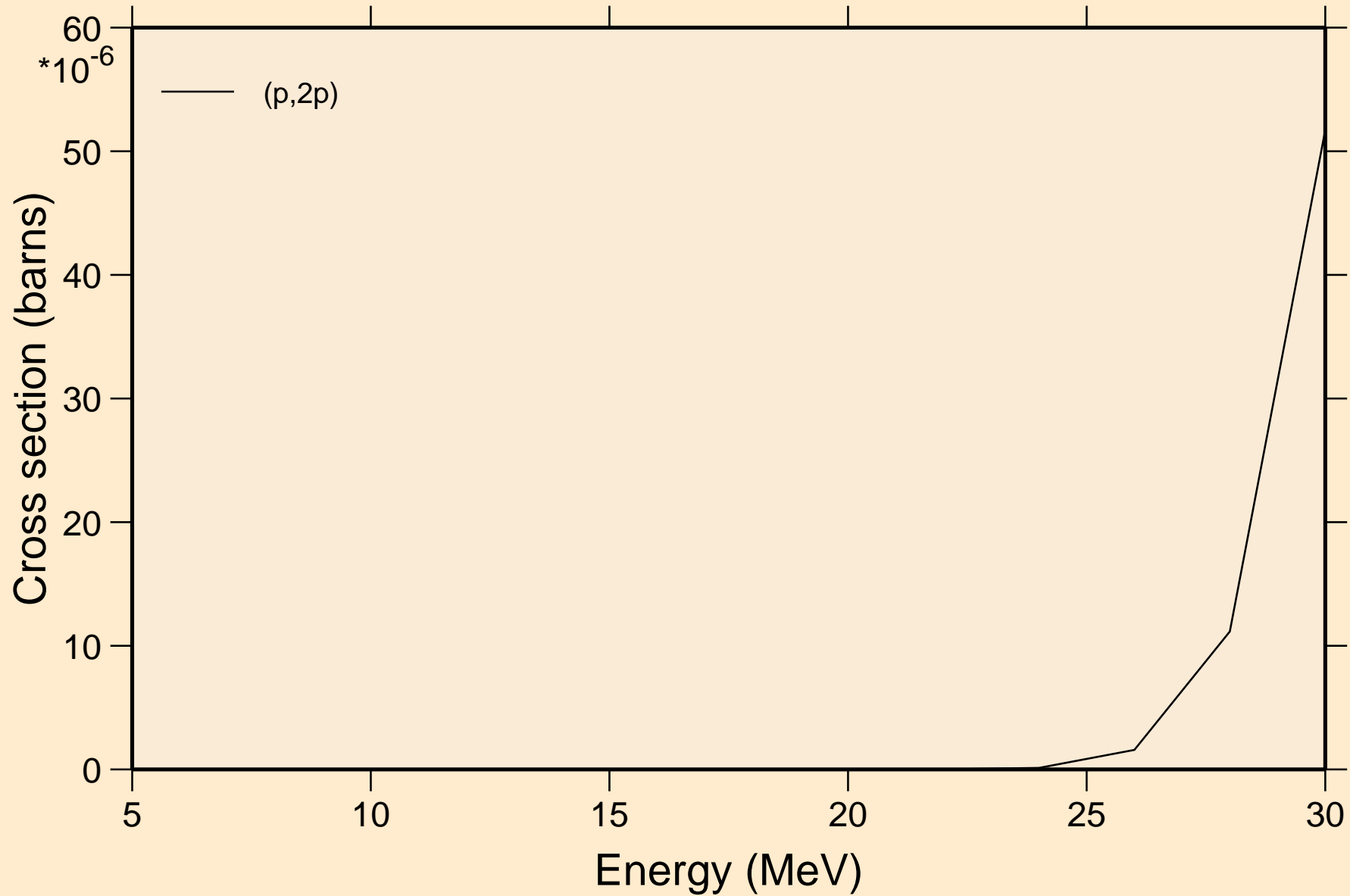
PU239 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
Threshold reactions



PU239 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
Threshold reactions

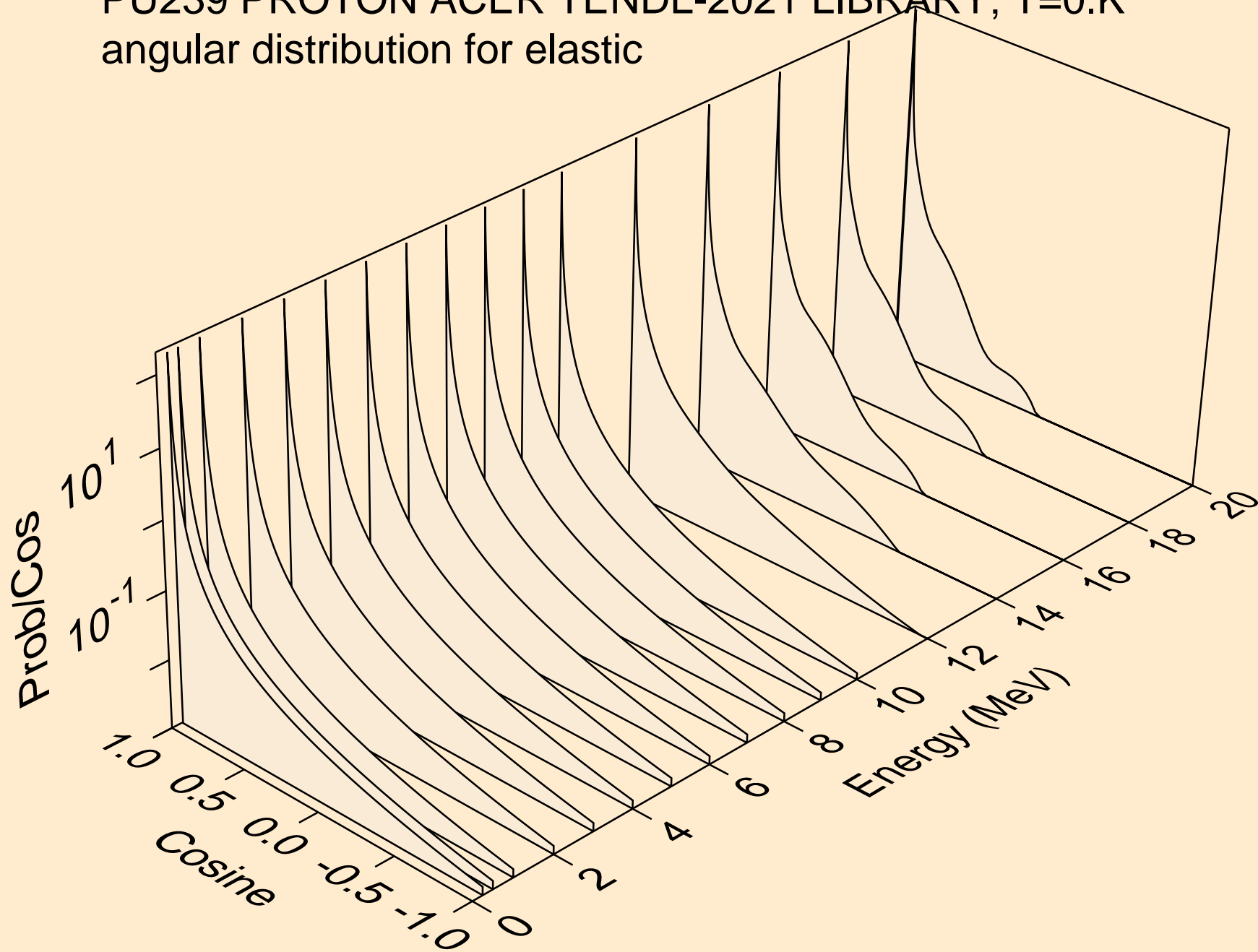


PU239 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
Threshold reactions

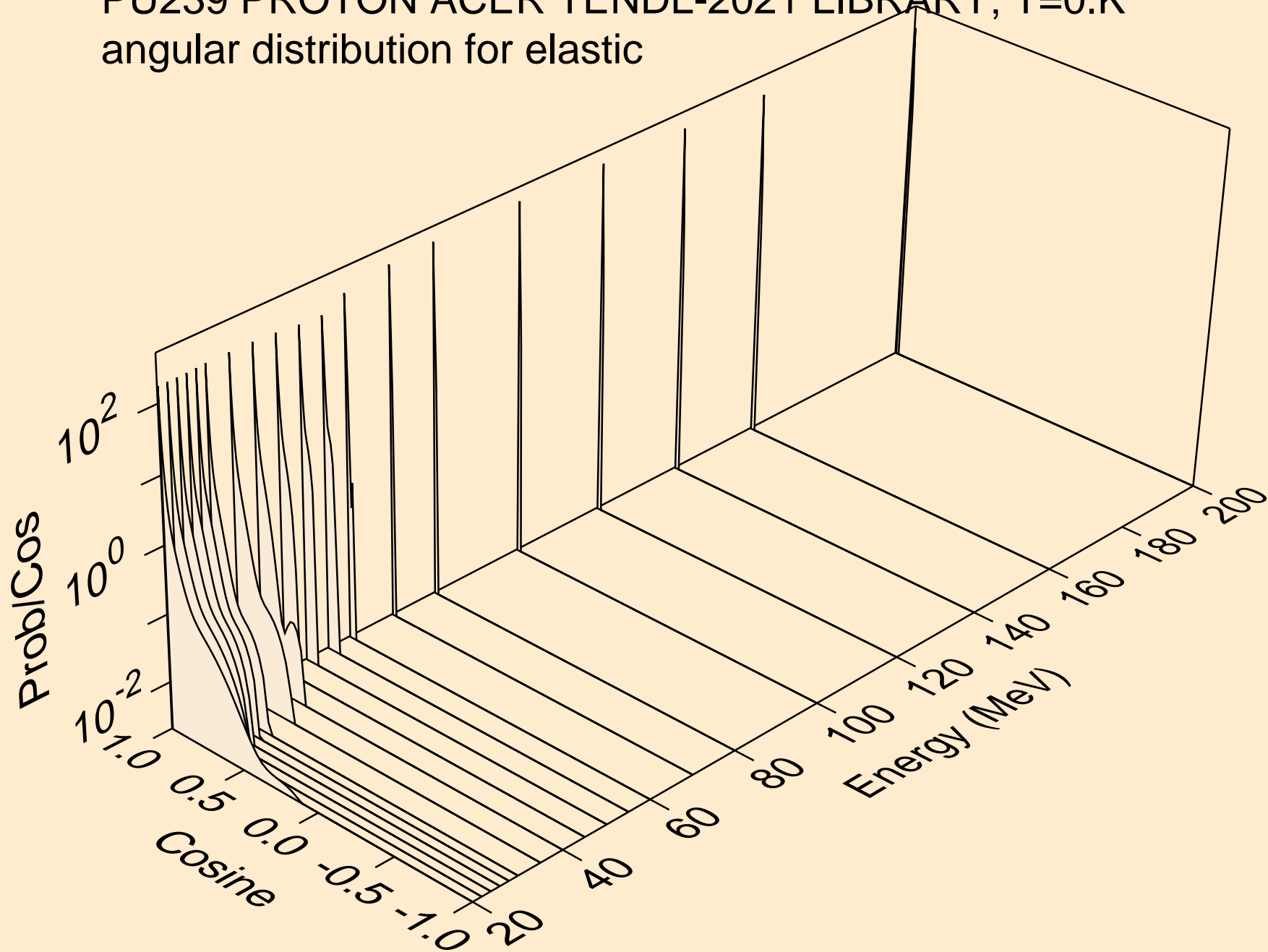




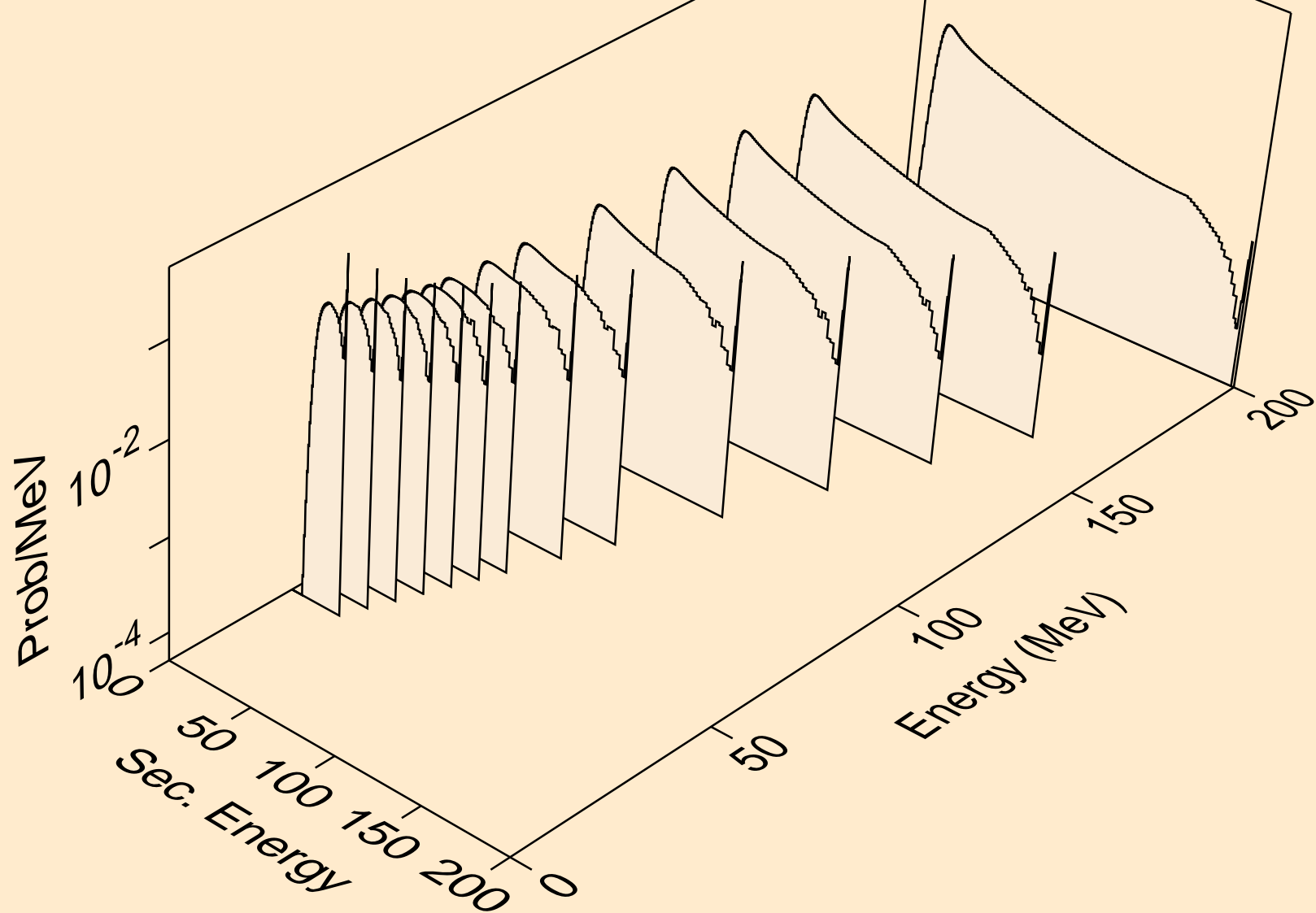
PU239 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
angular distribution for elastic



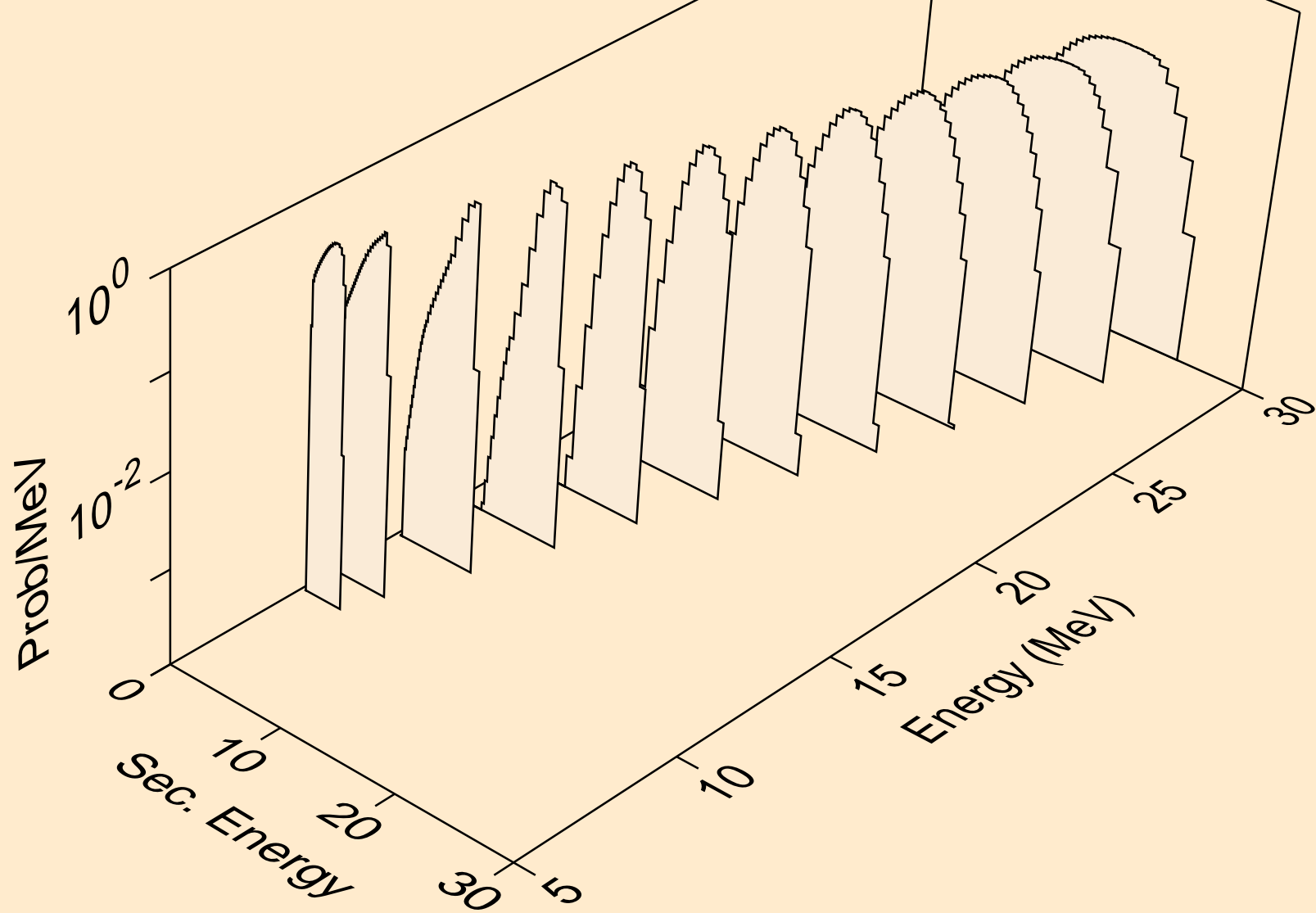
PU239 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
angular distribution for elastic



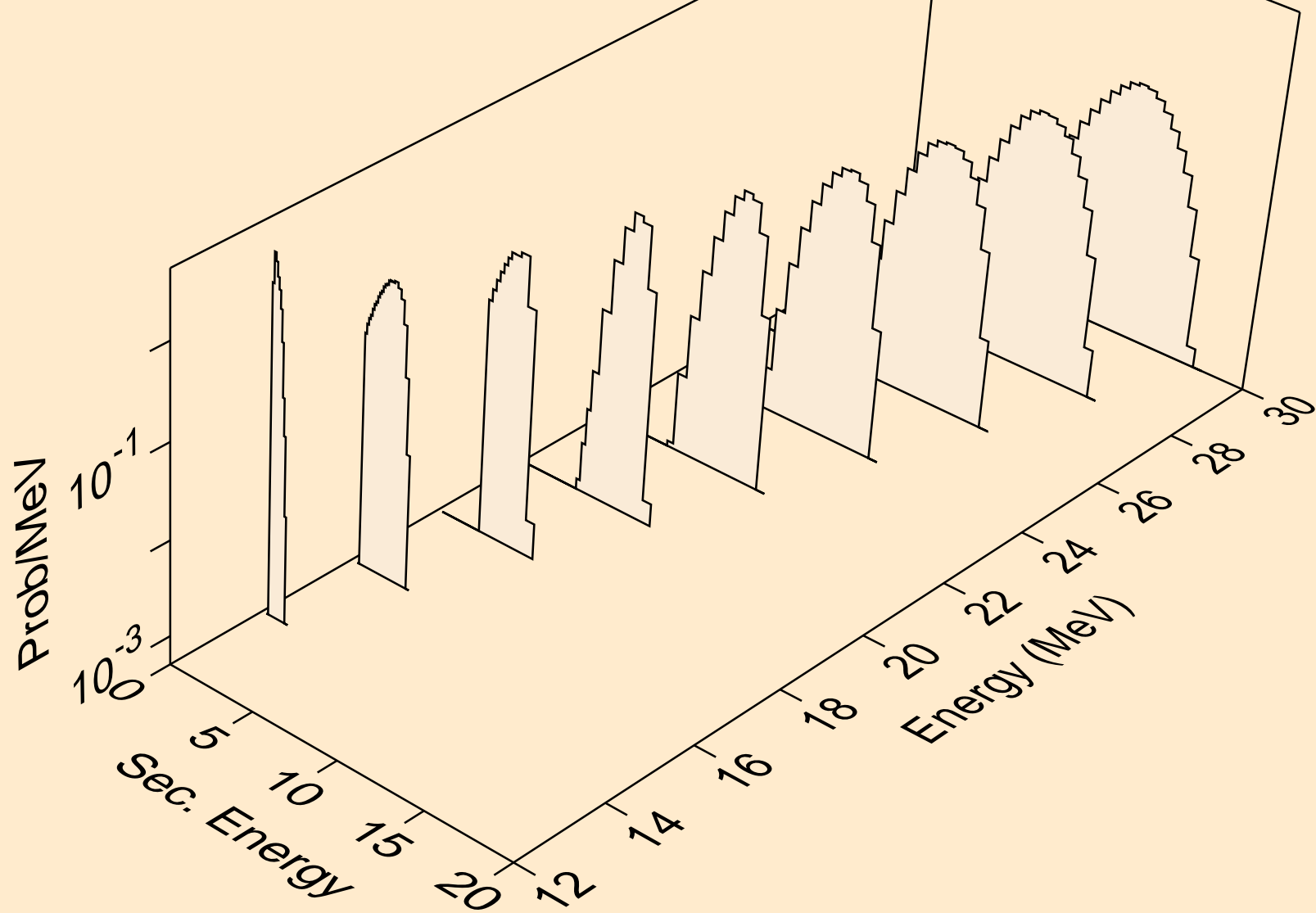
PU239 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
Proton emission for (p,x)



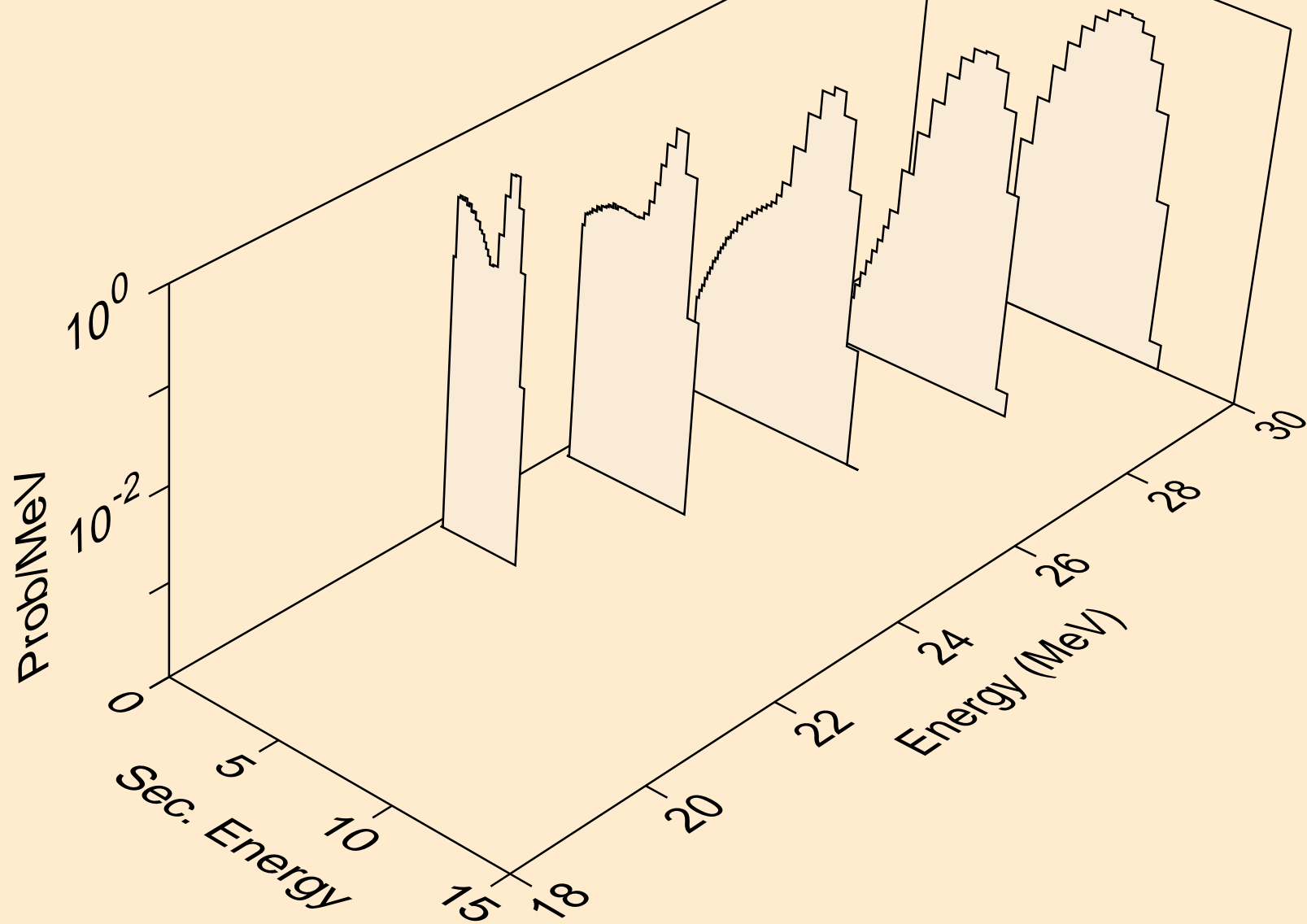
PU239 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
Proton emission for (p,n\*)p



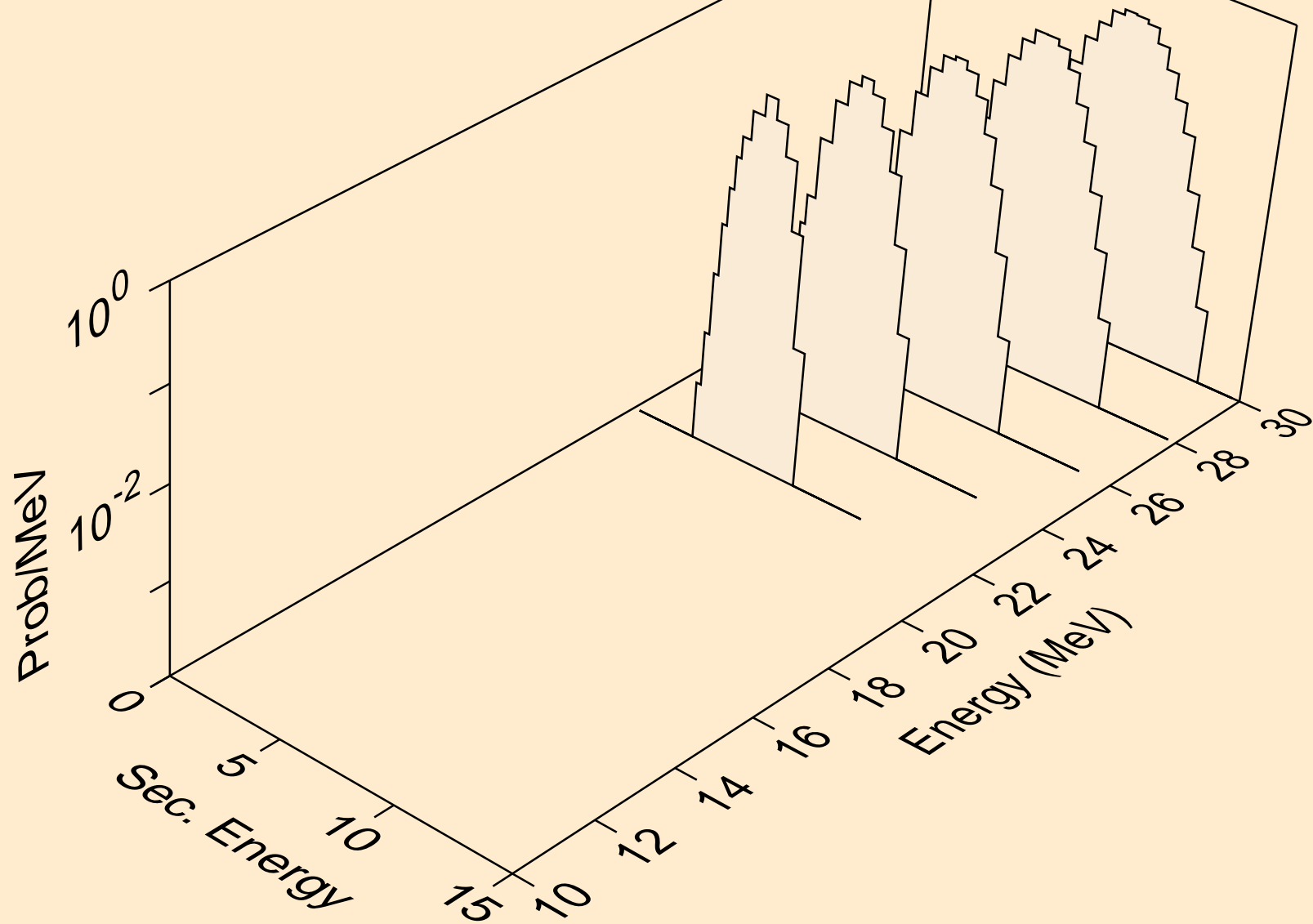
PU239 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
Proton emission for (p,2np)



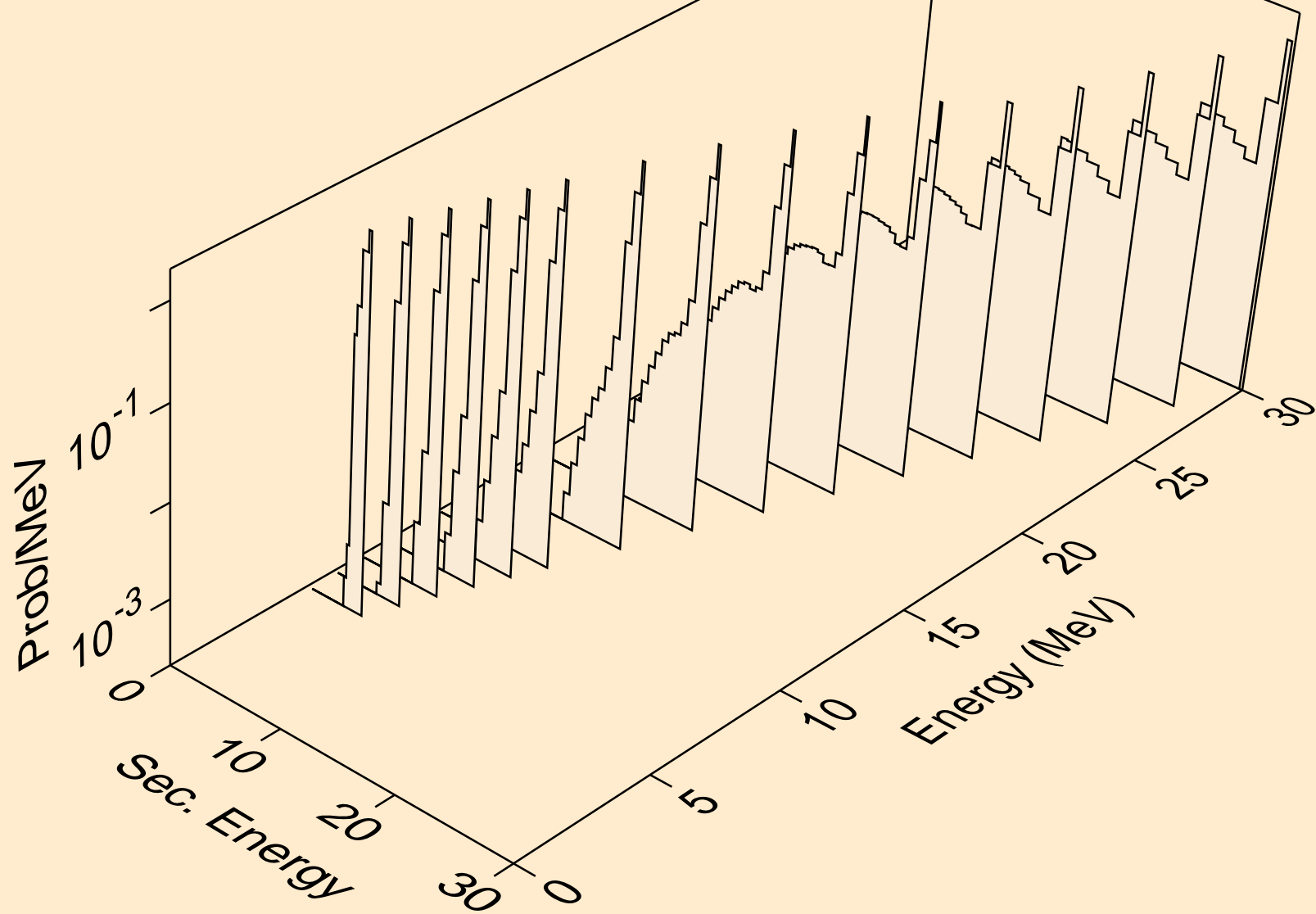
PU239 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
Proton emission for (p,3np)



PU239 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
Proton emission for (p,2np)

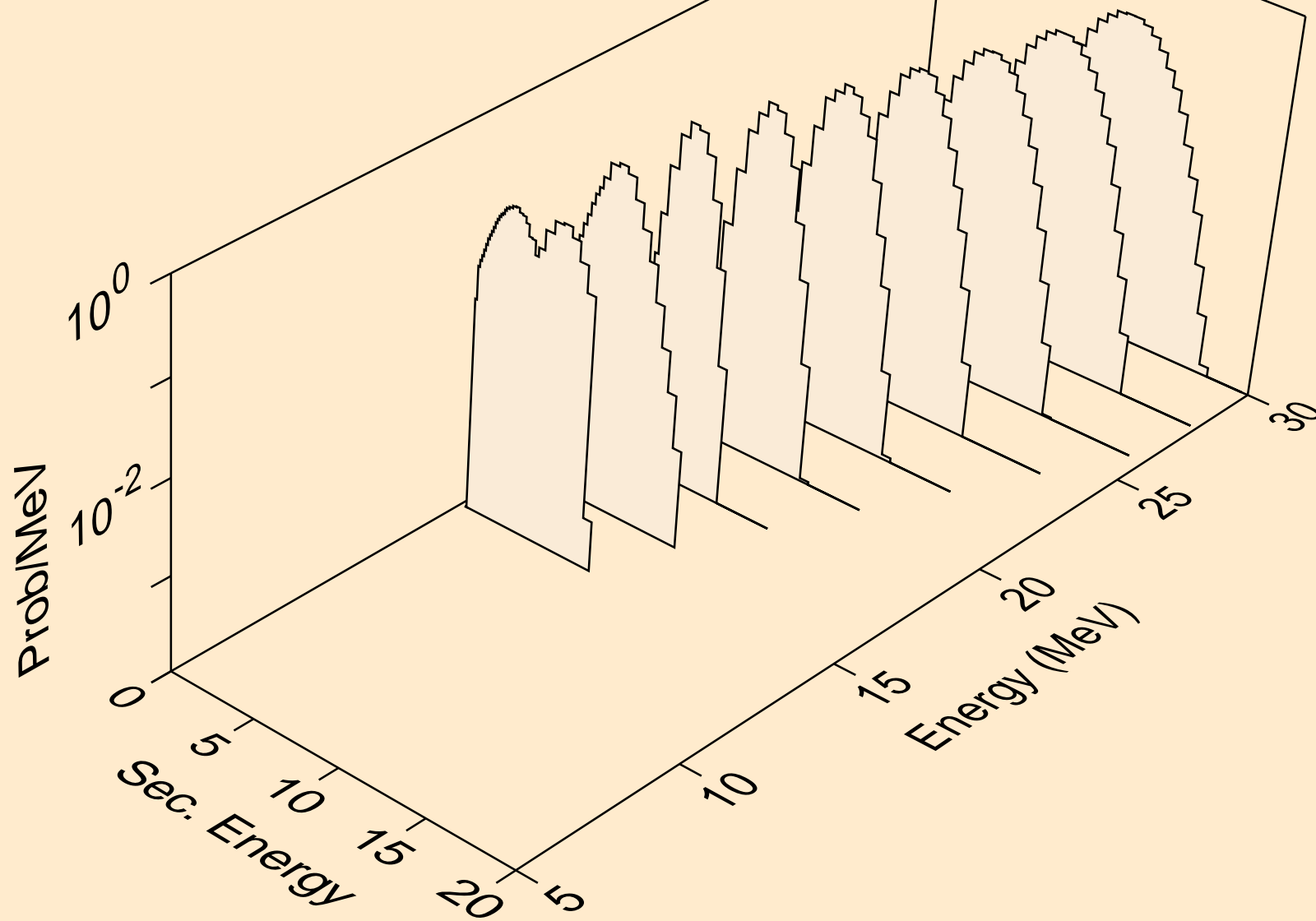


PU239 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
Proton emission for inelastic

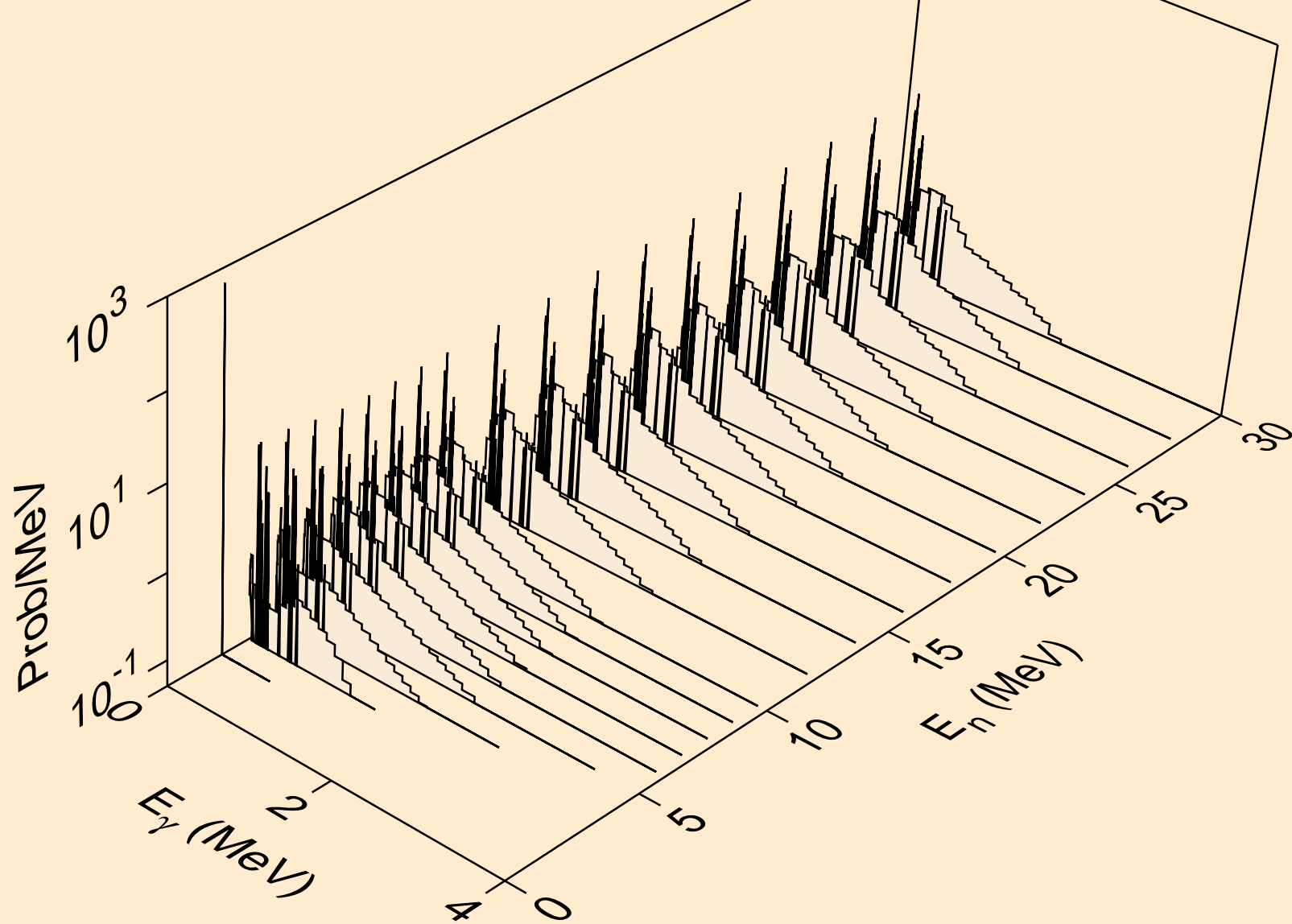




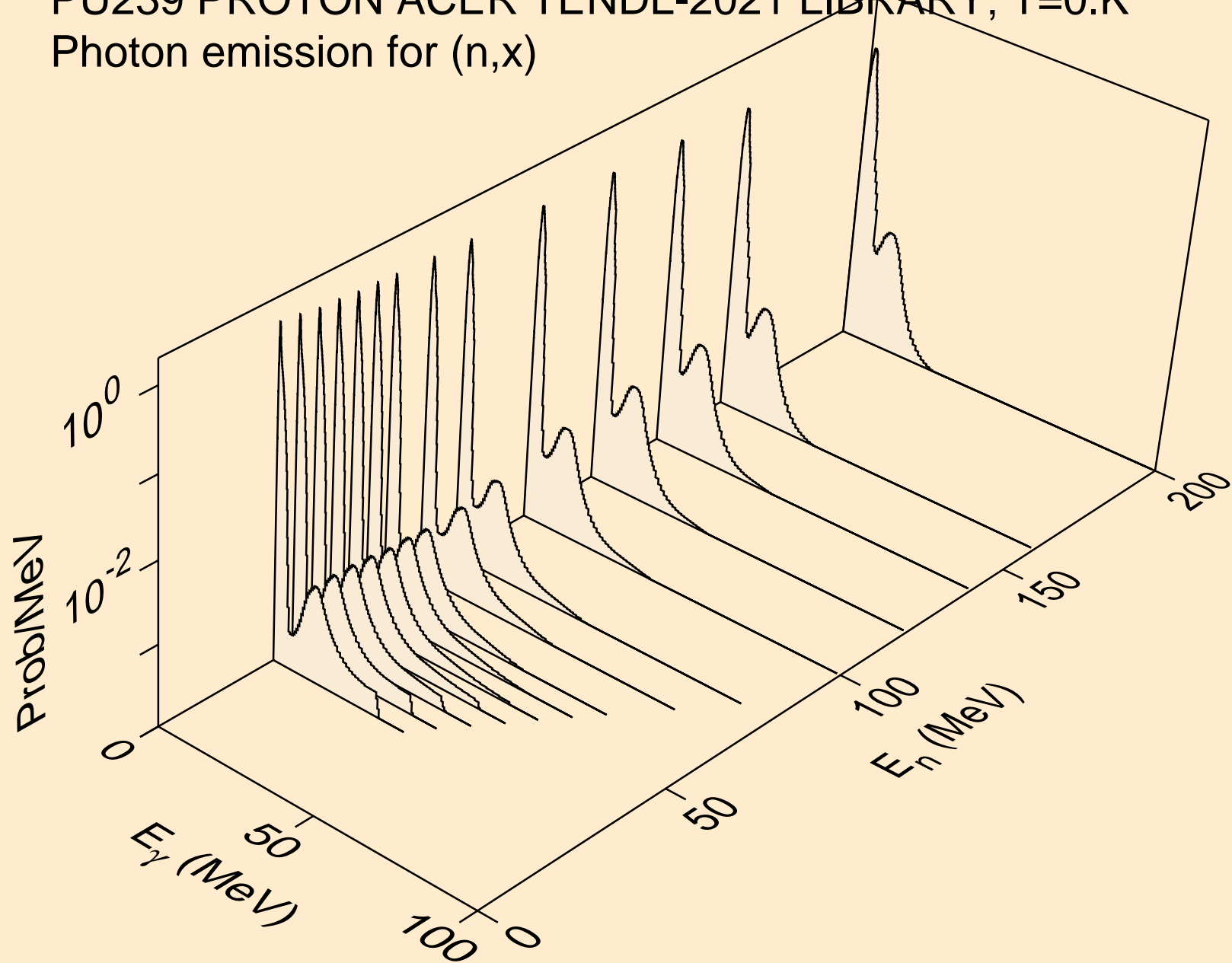
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Proton emission for (p,2p)



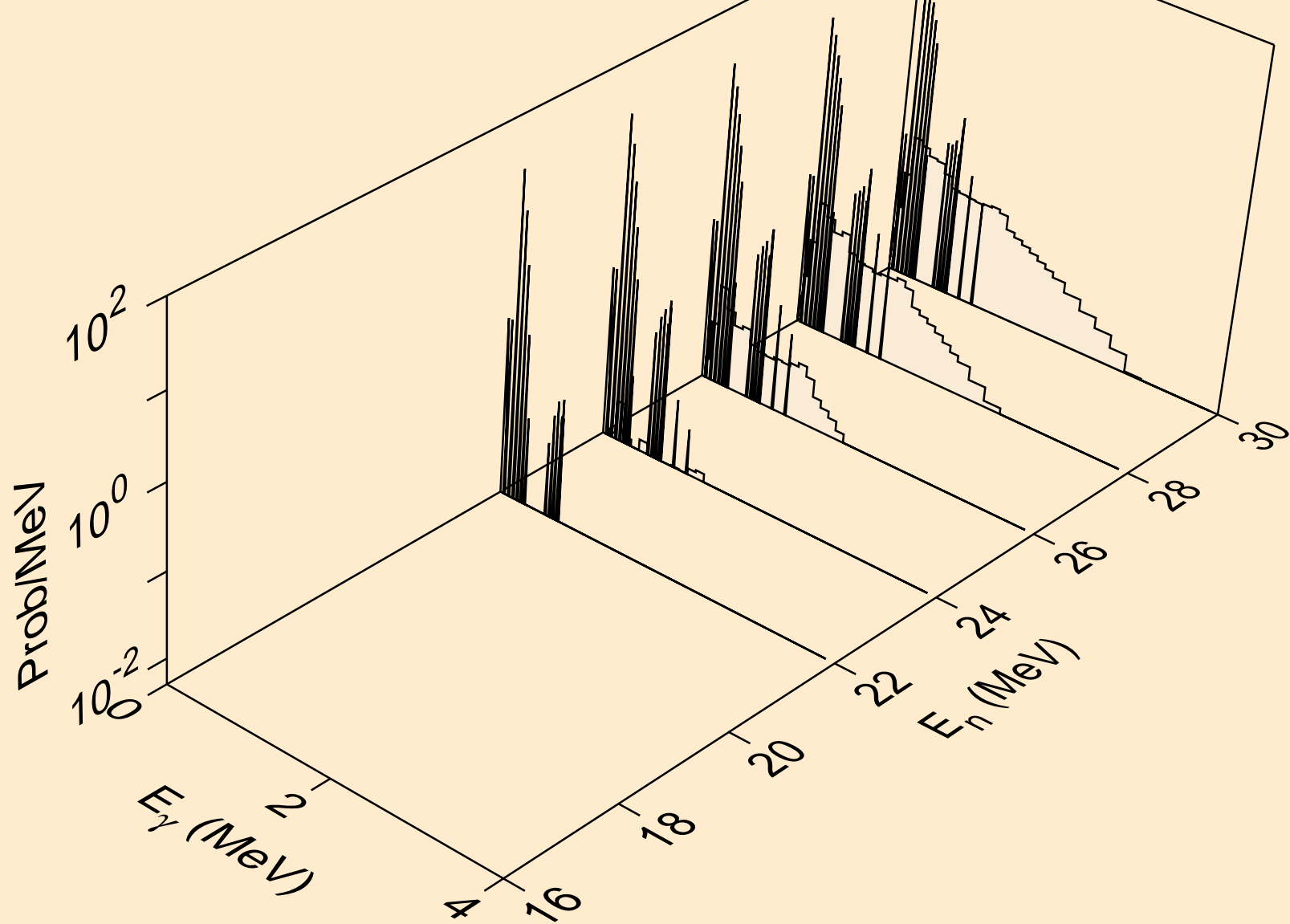
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Photon emission for (z,n)



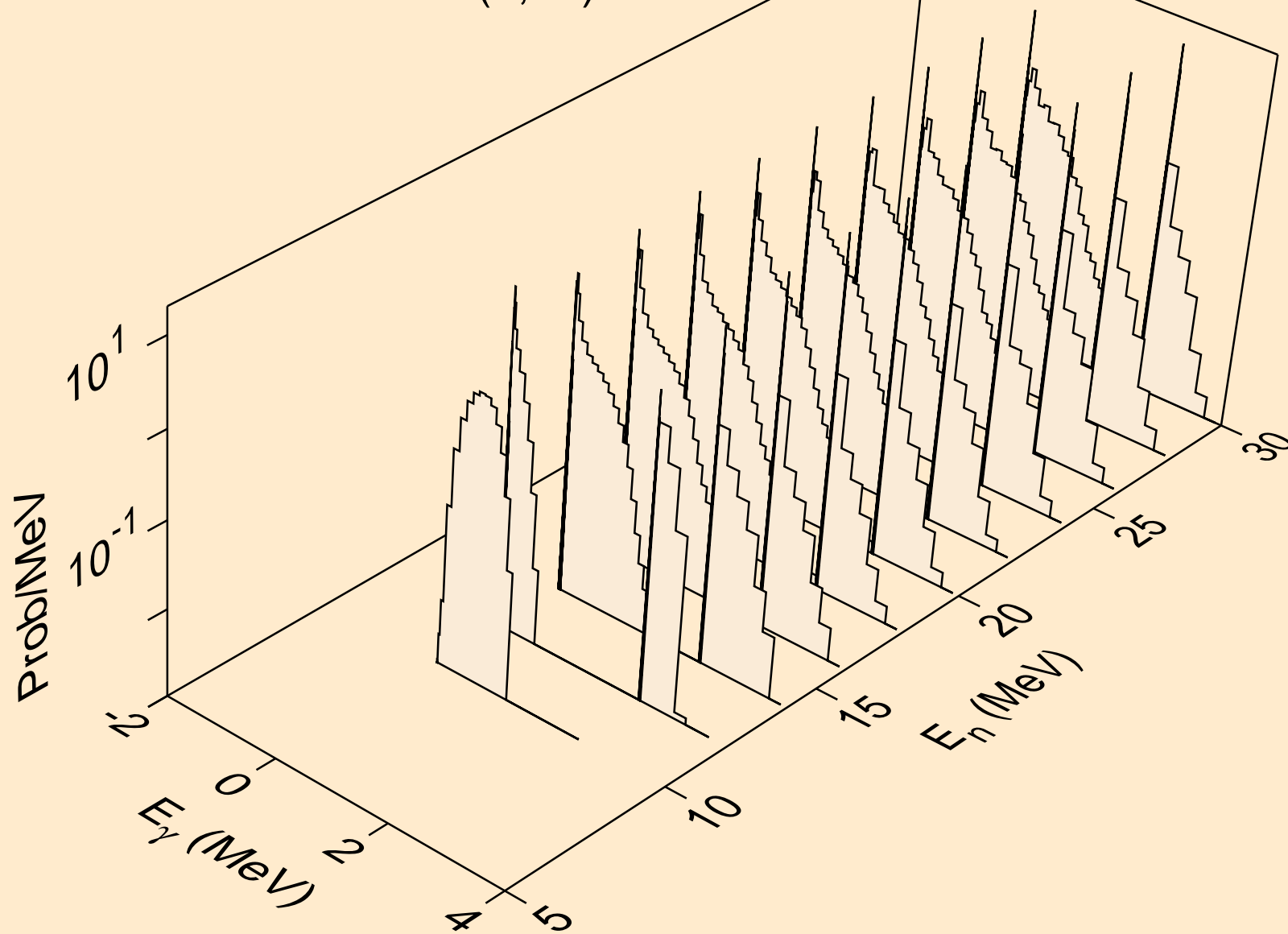
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Photon emission for (n,x)



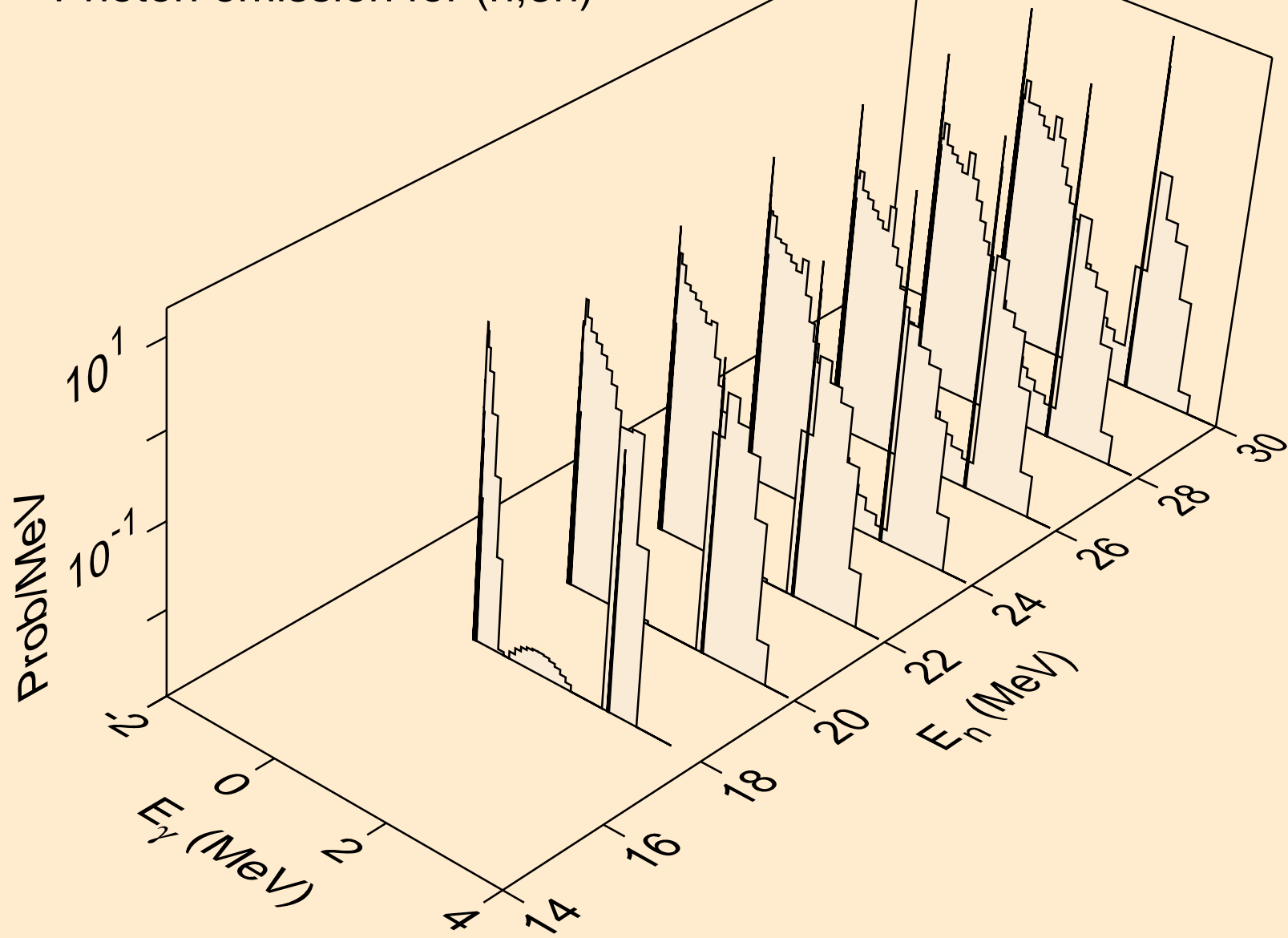
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Photon emission for (n,2nd)



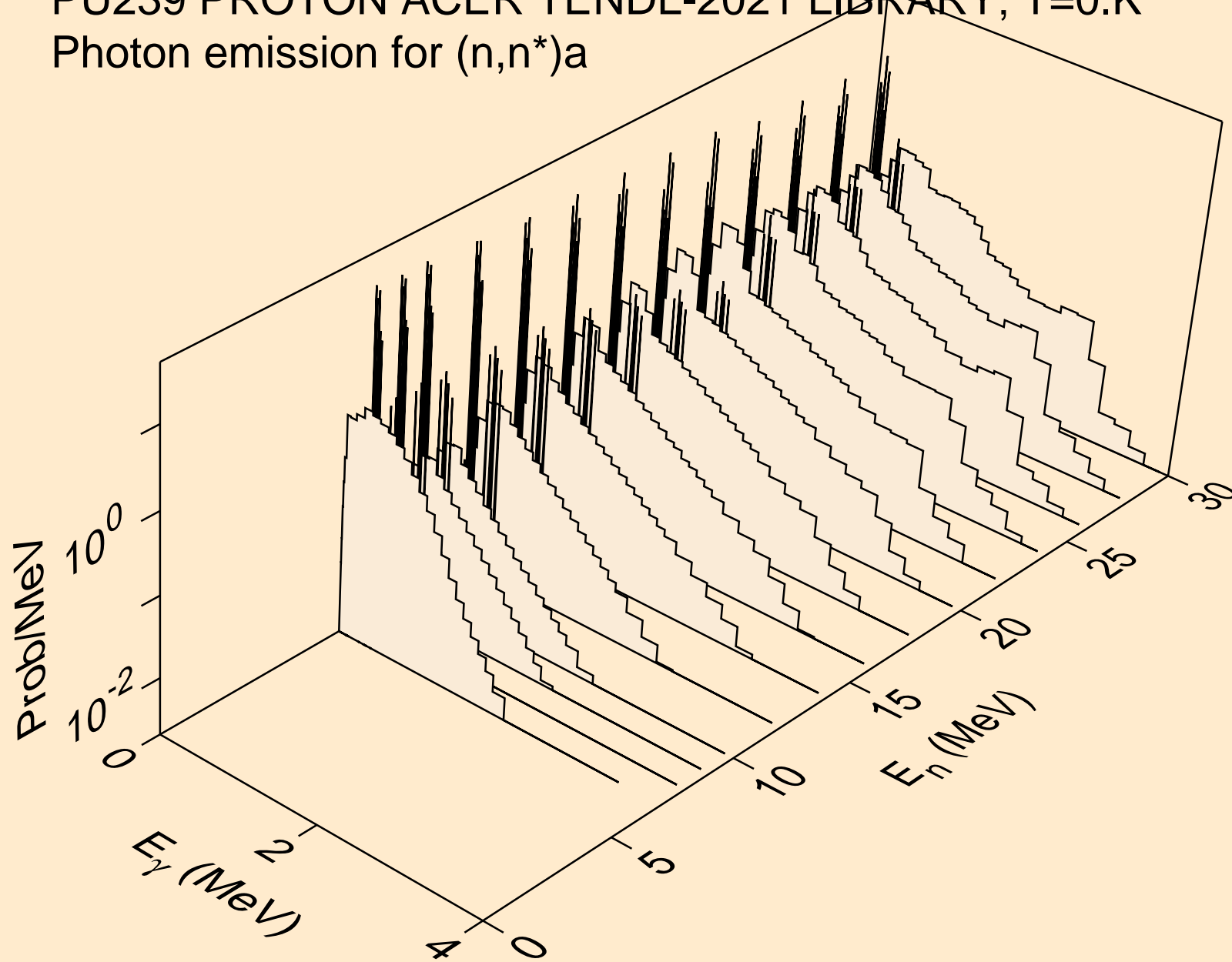
PU239 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
Photon emission for (n,2n)



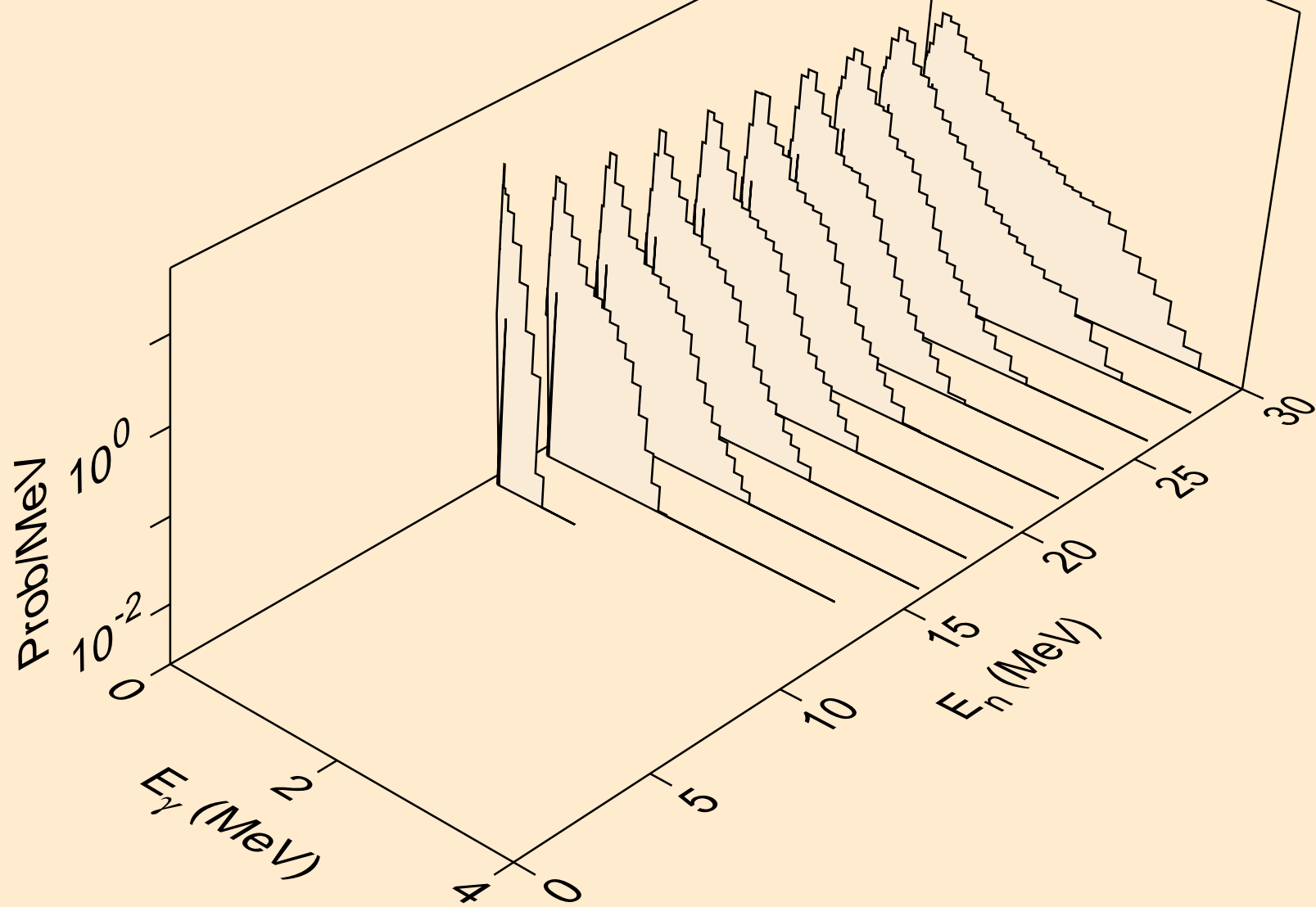
PU239 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
Photon emission for (n,3n)



PU239 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
Photon emission for (n,n\*)a

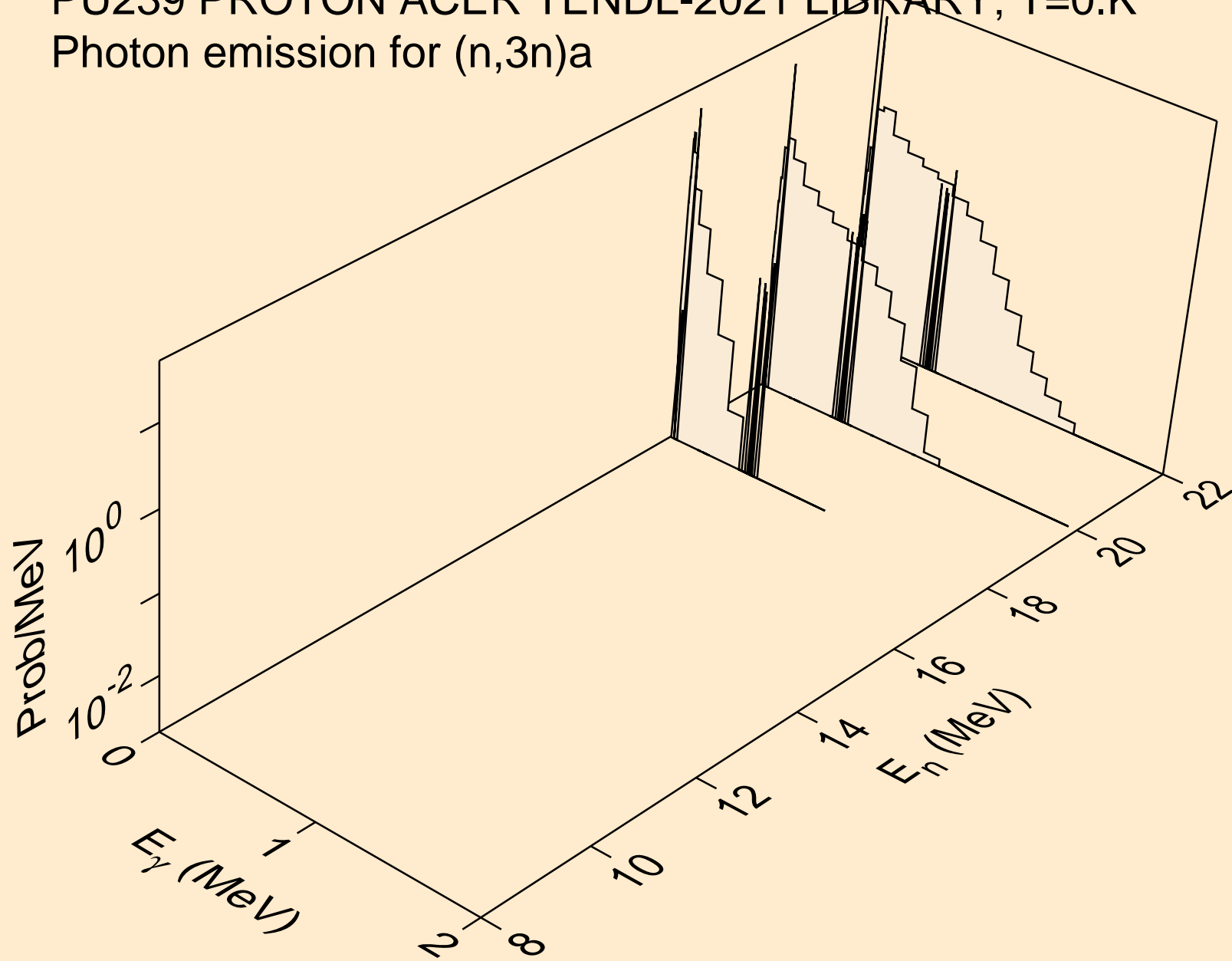


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Photon emission for (n,2n)a

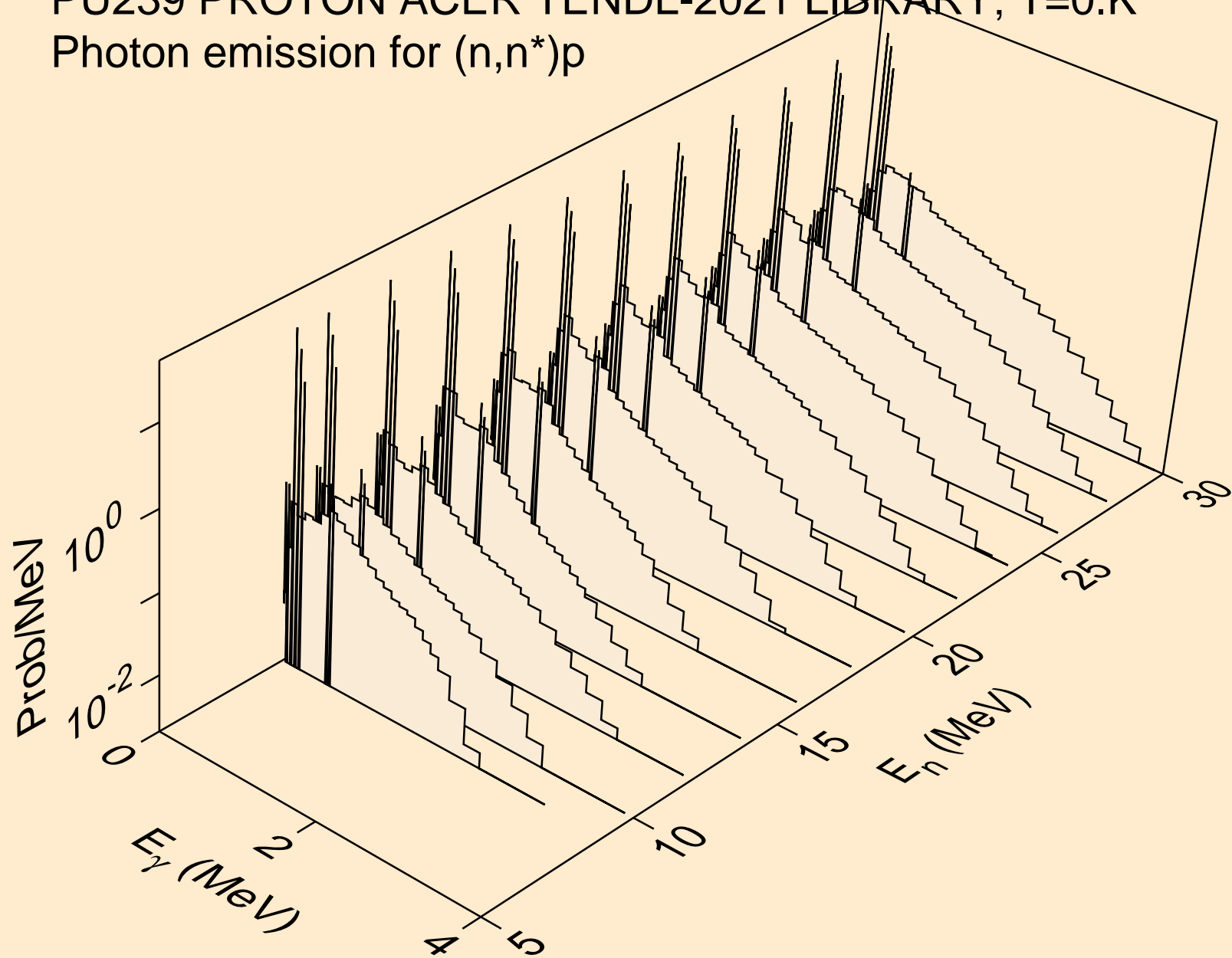




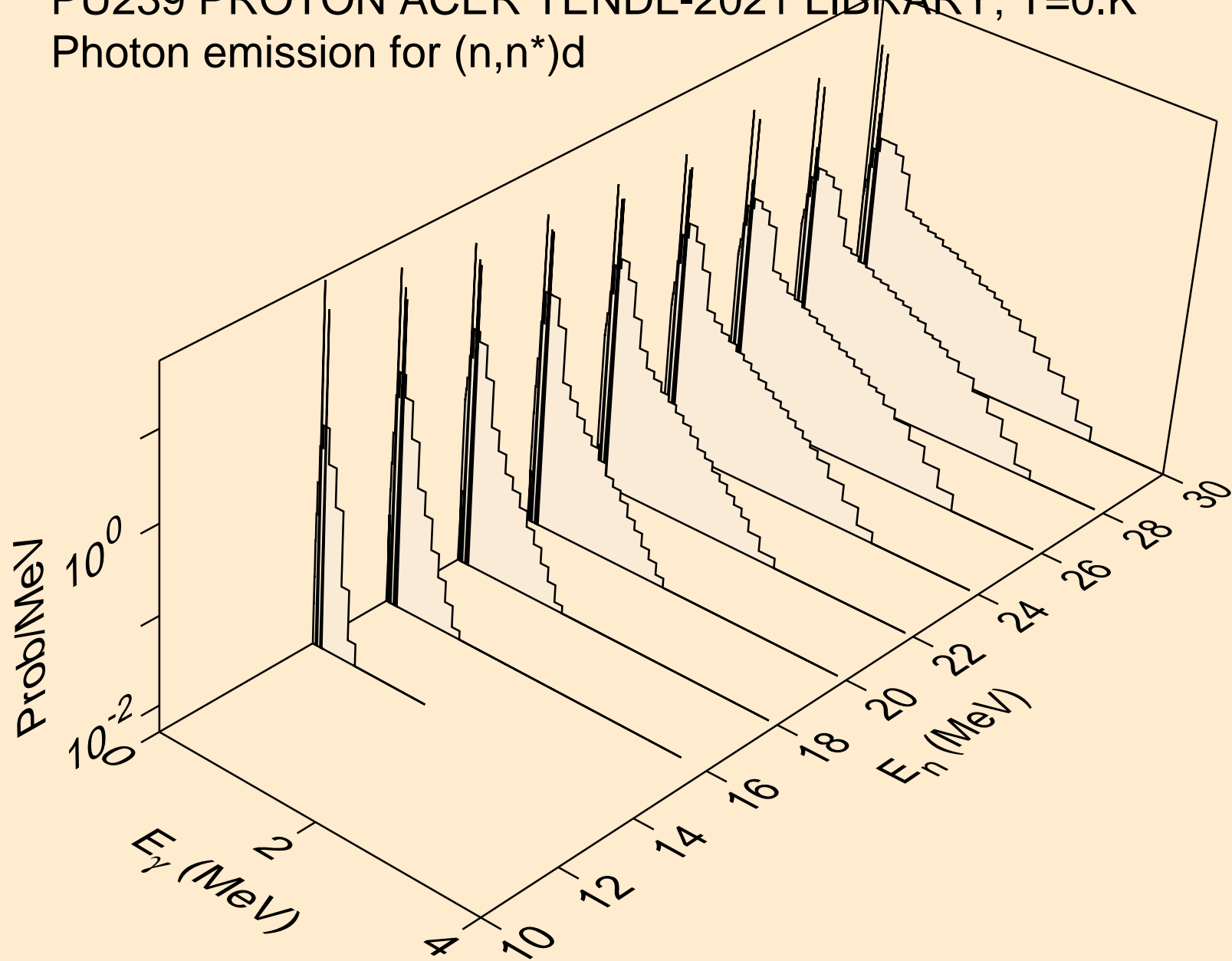
PU239 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
Photon emission for (n,3n)a



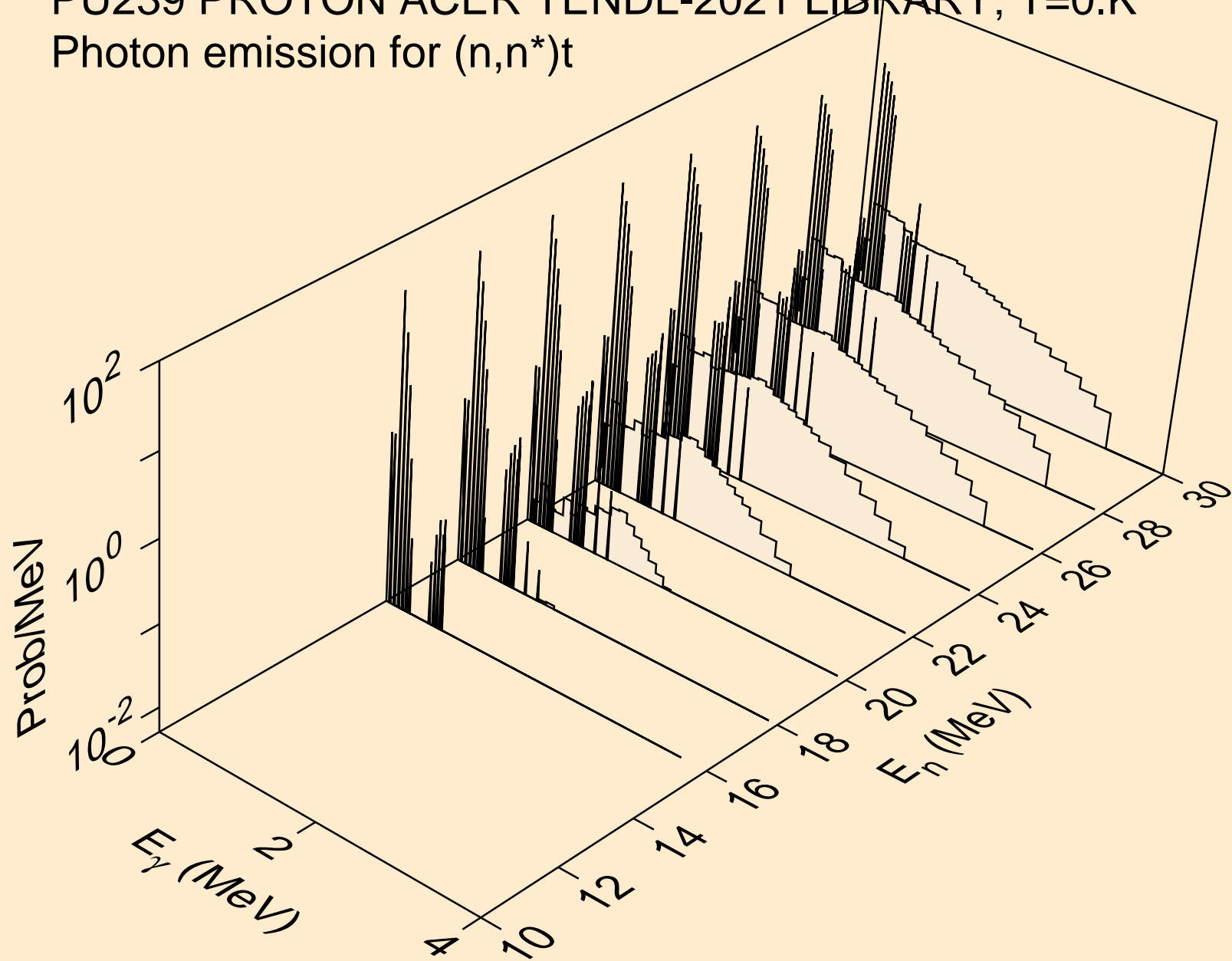
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Photon emission for (n,n\*)p



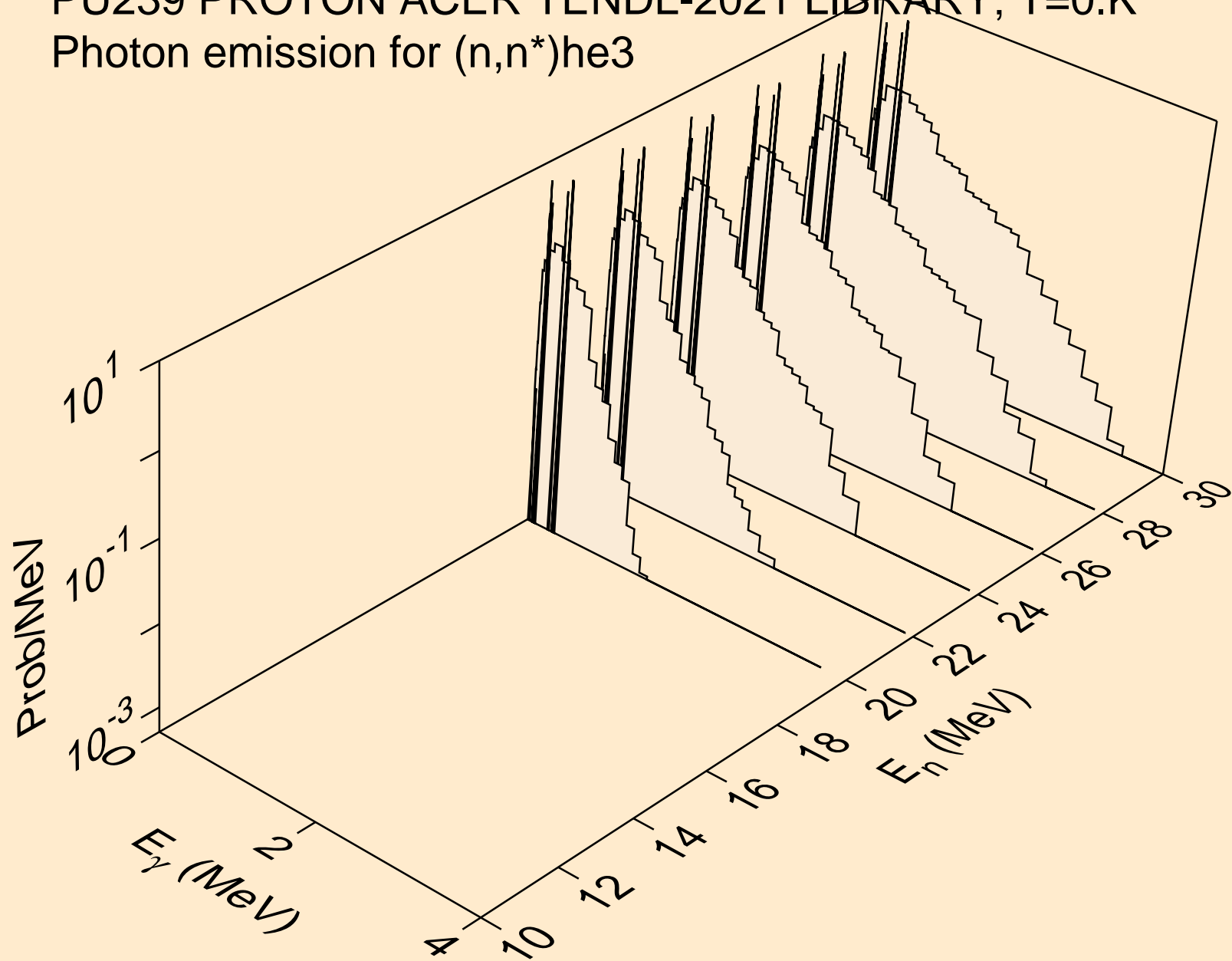
PU239 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
Photon emission for (n,n\*)d



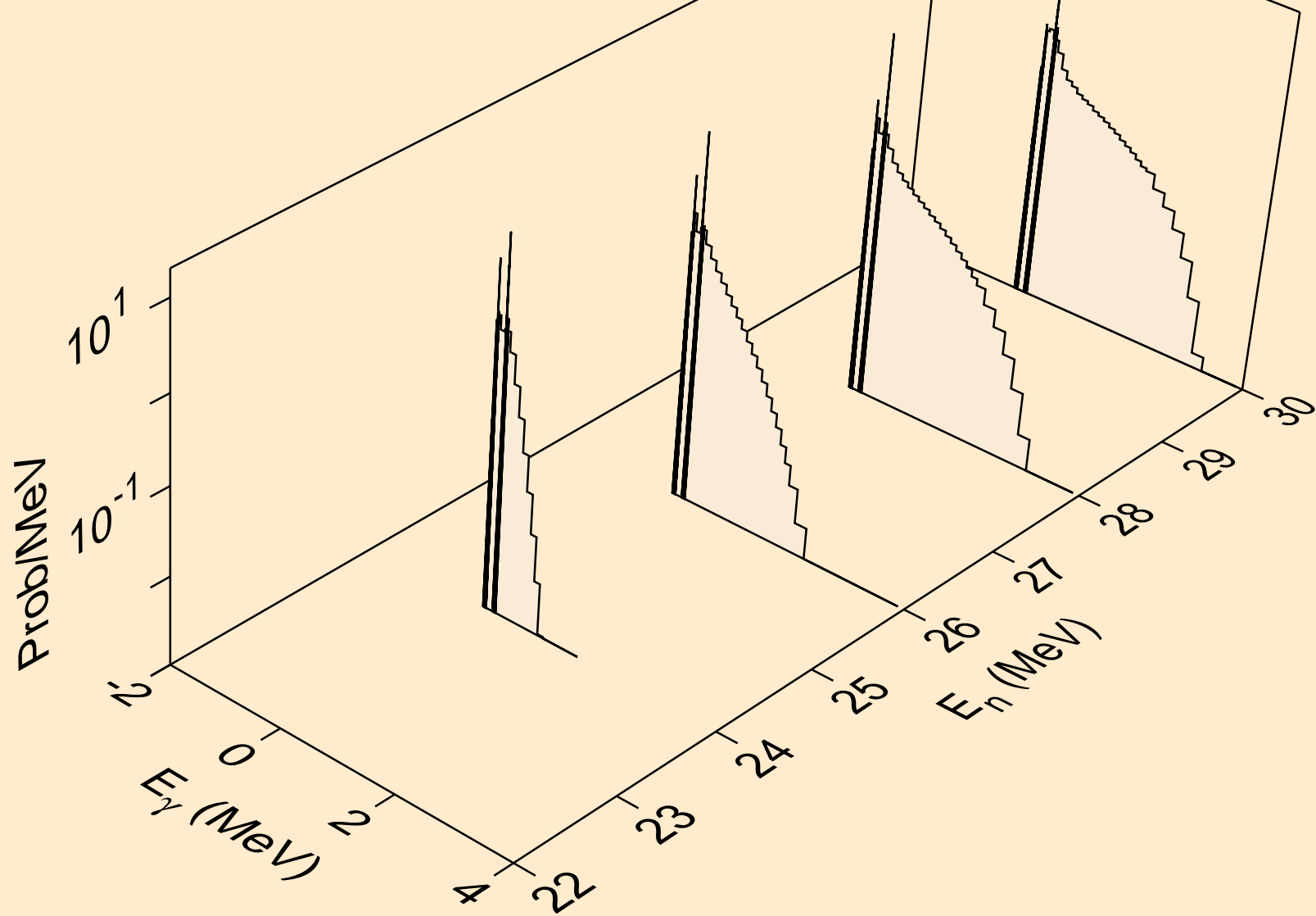
PU239 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
Photon emission for (n,n\*)t



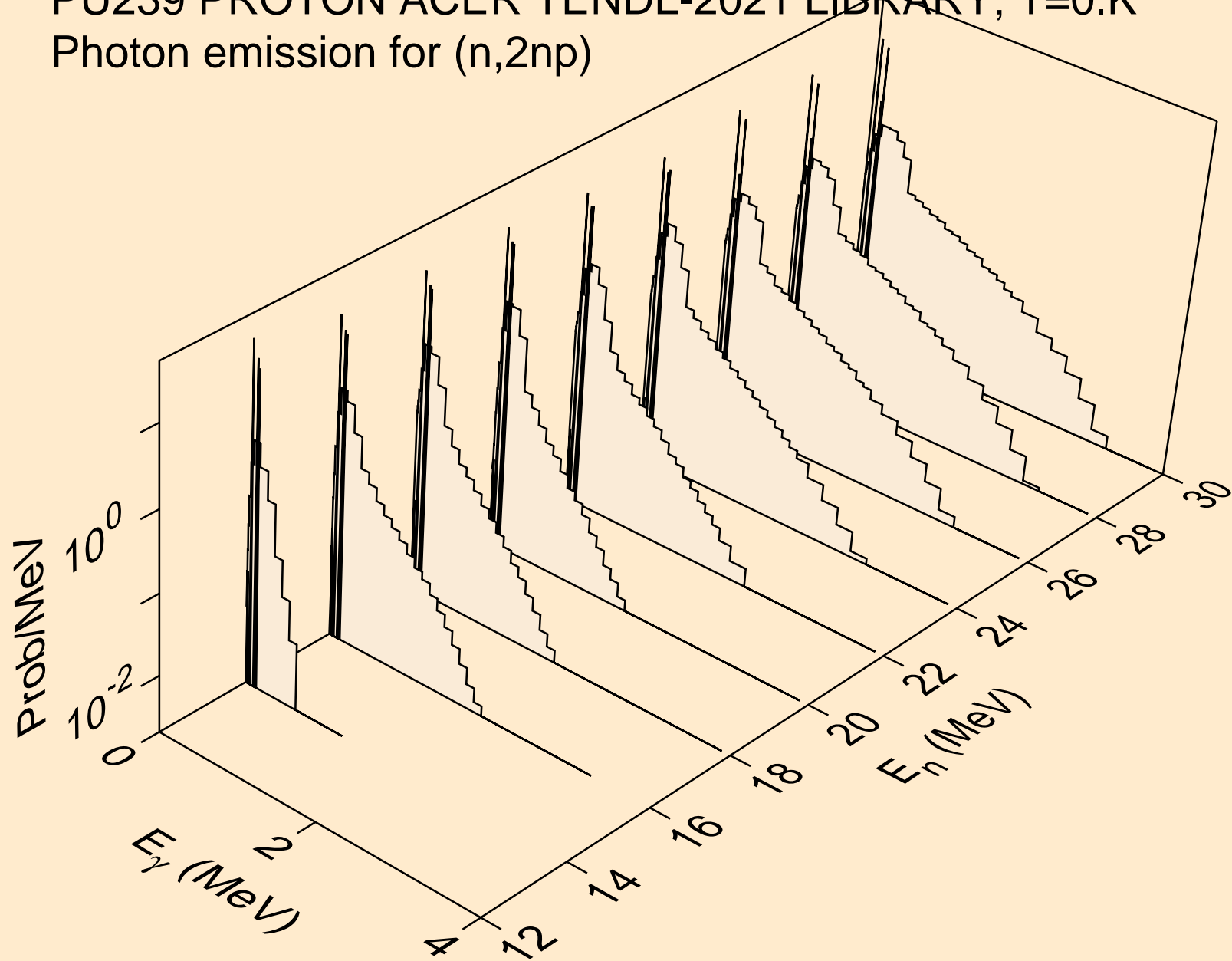
PU239 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
Photon emission for (n,n\*)he3



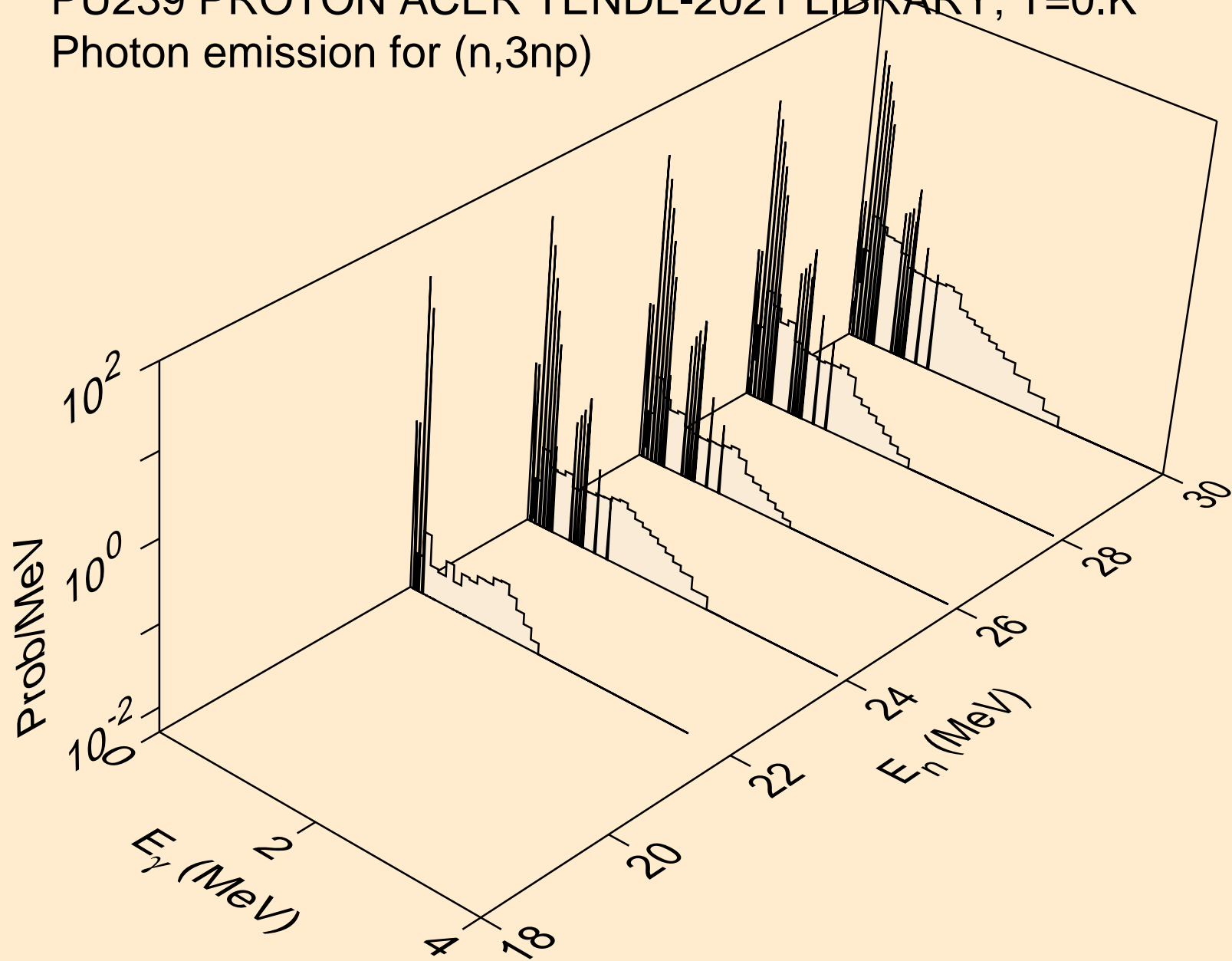
PU239 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
Photon emission for (n,4n)



PU239 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
Photon emission for (n,2np)

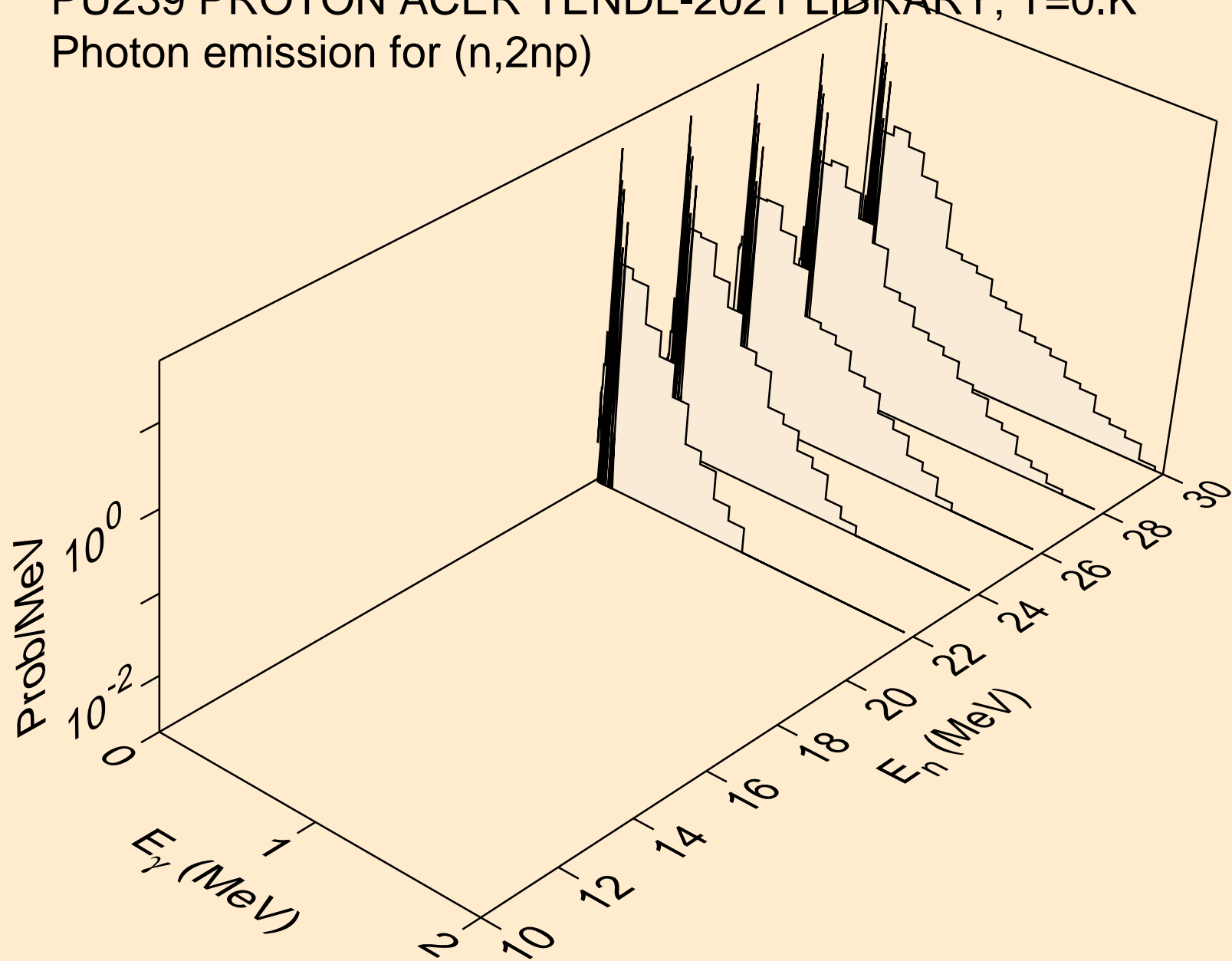


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Photon emission for (n,3np)

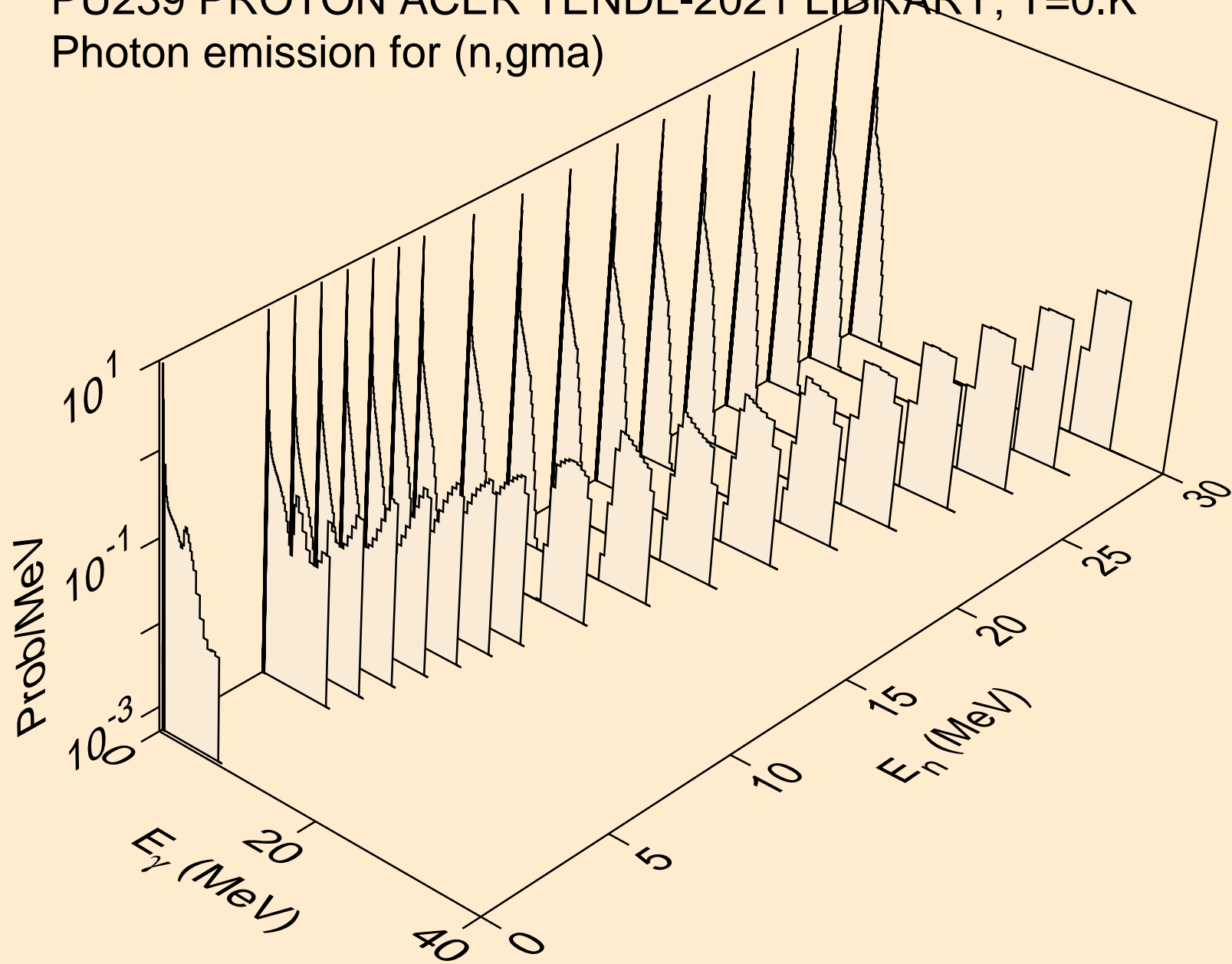




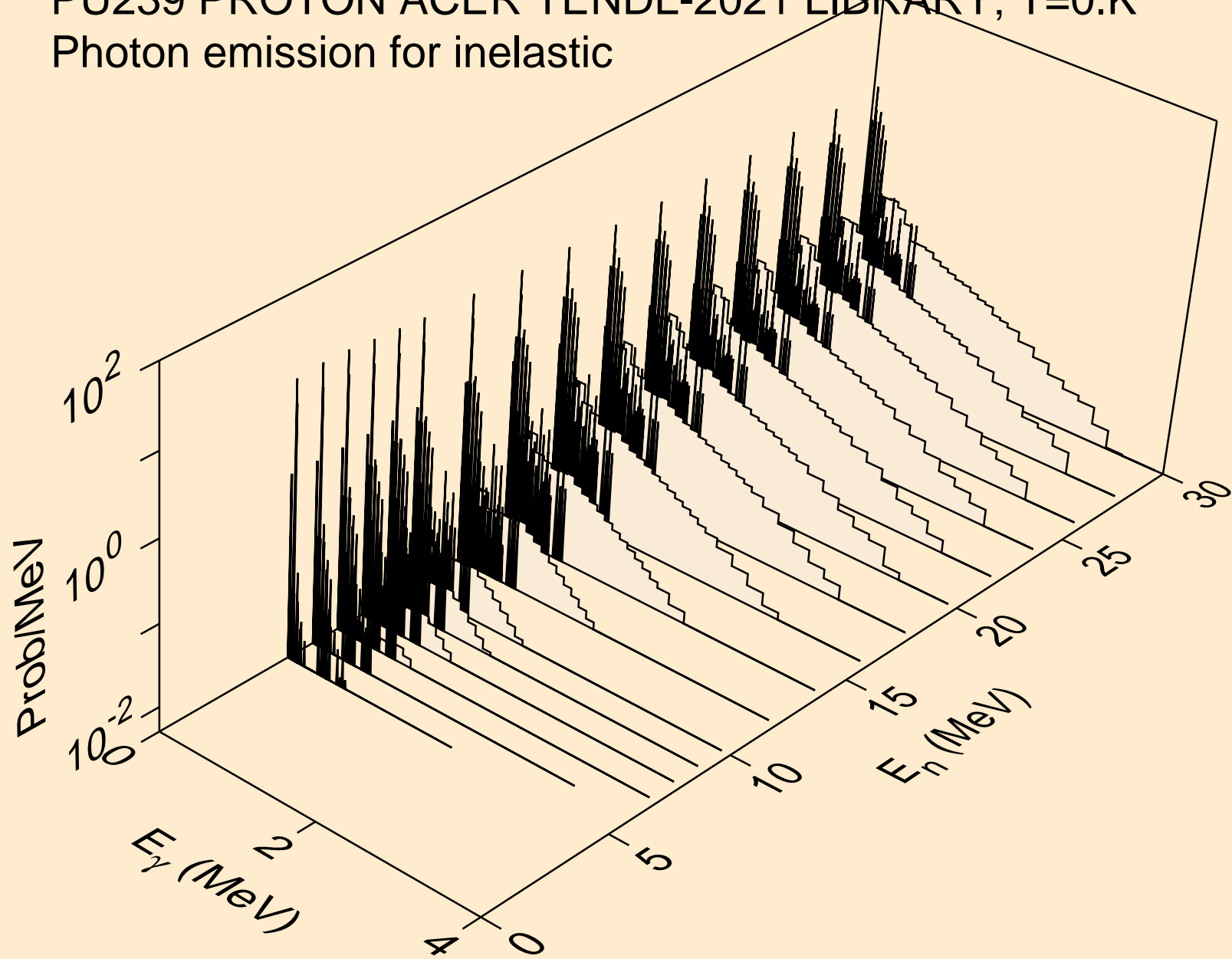
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Photon emission for (n,2np)



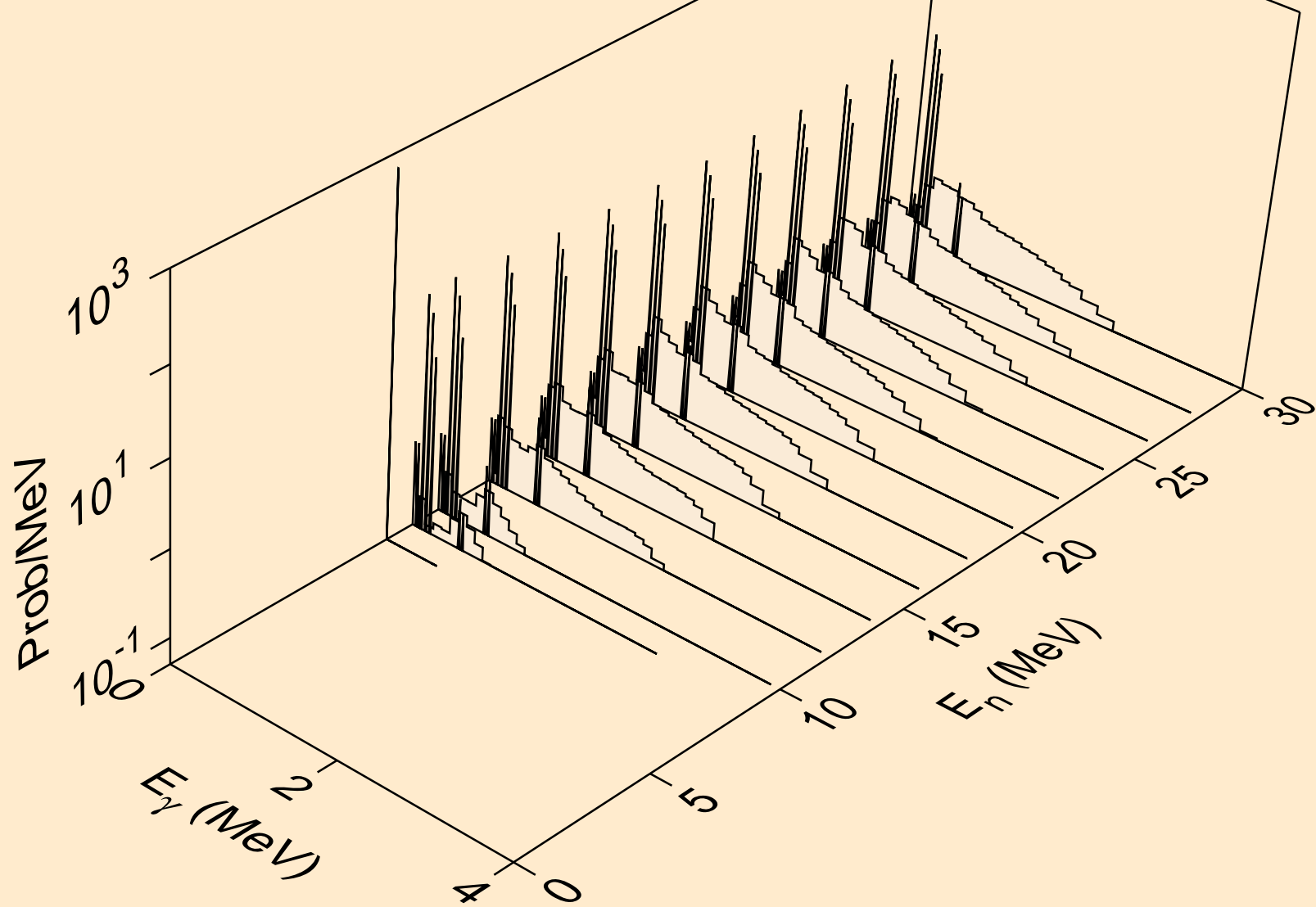
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Photon emission for (n,gma)



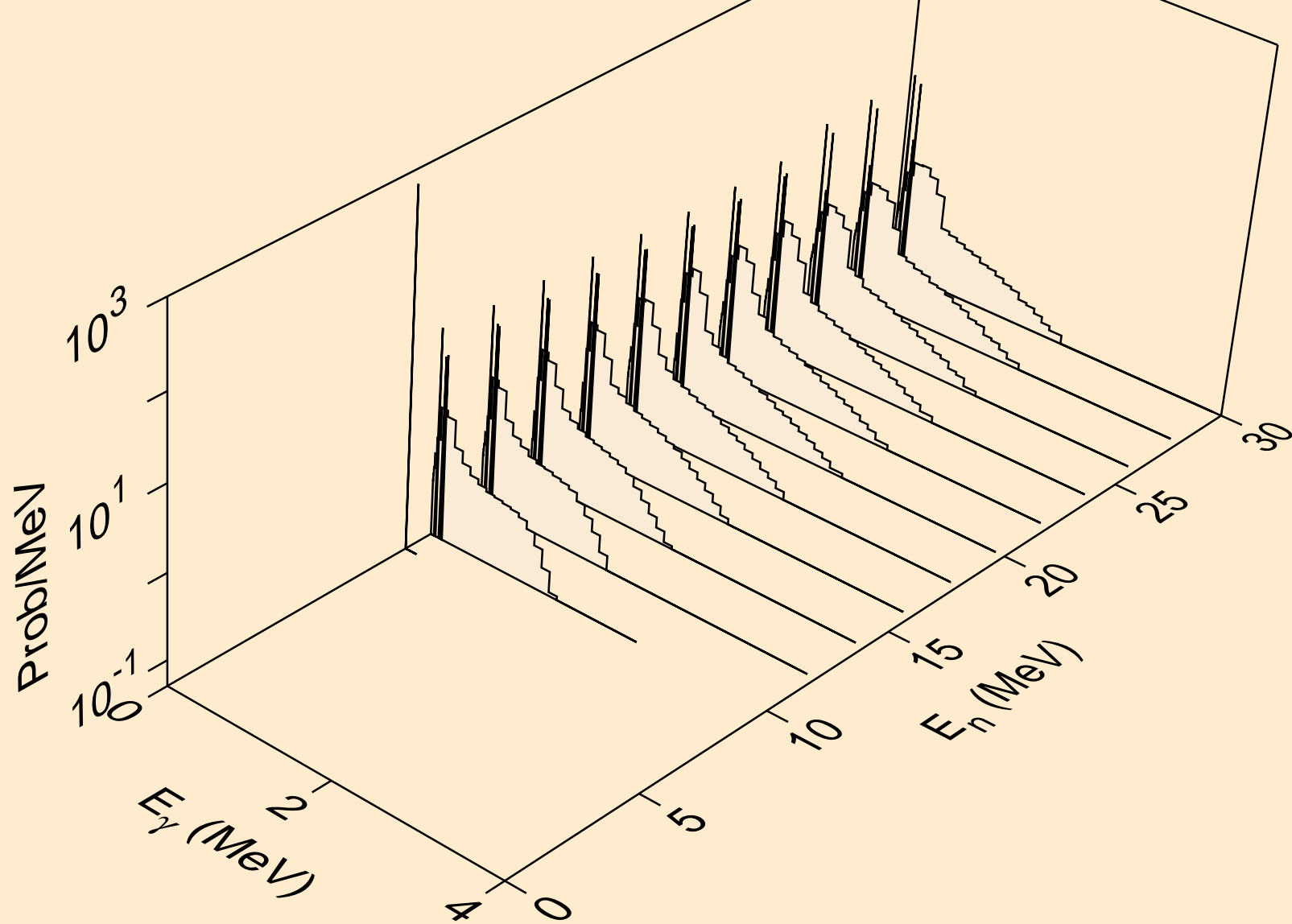
PU239 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
Photon emission for inelastic



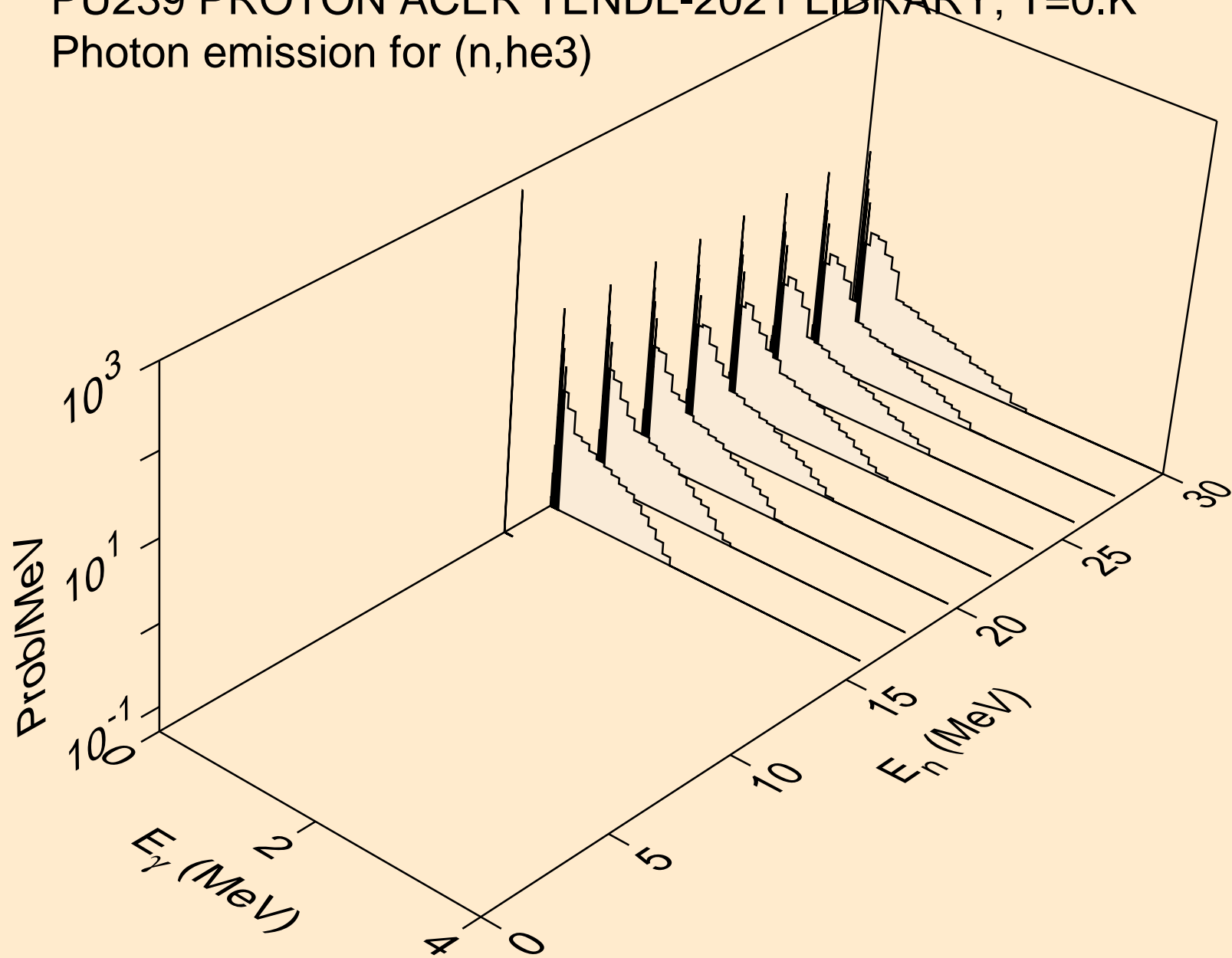
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Photon emission for (n,d)



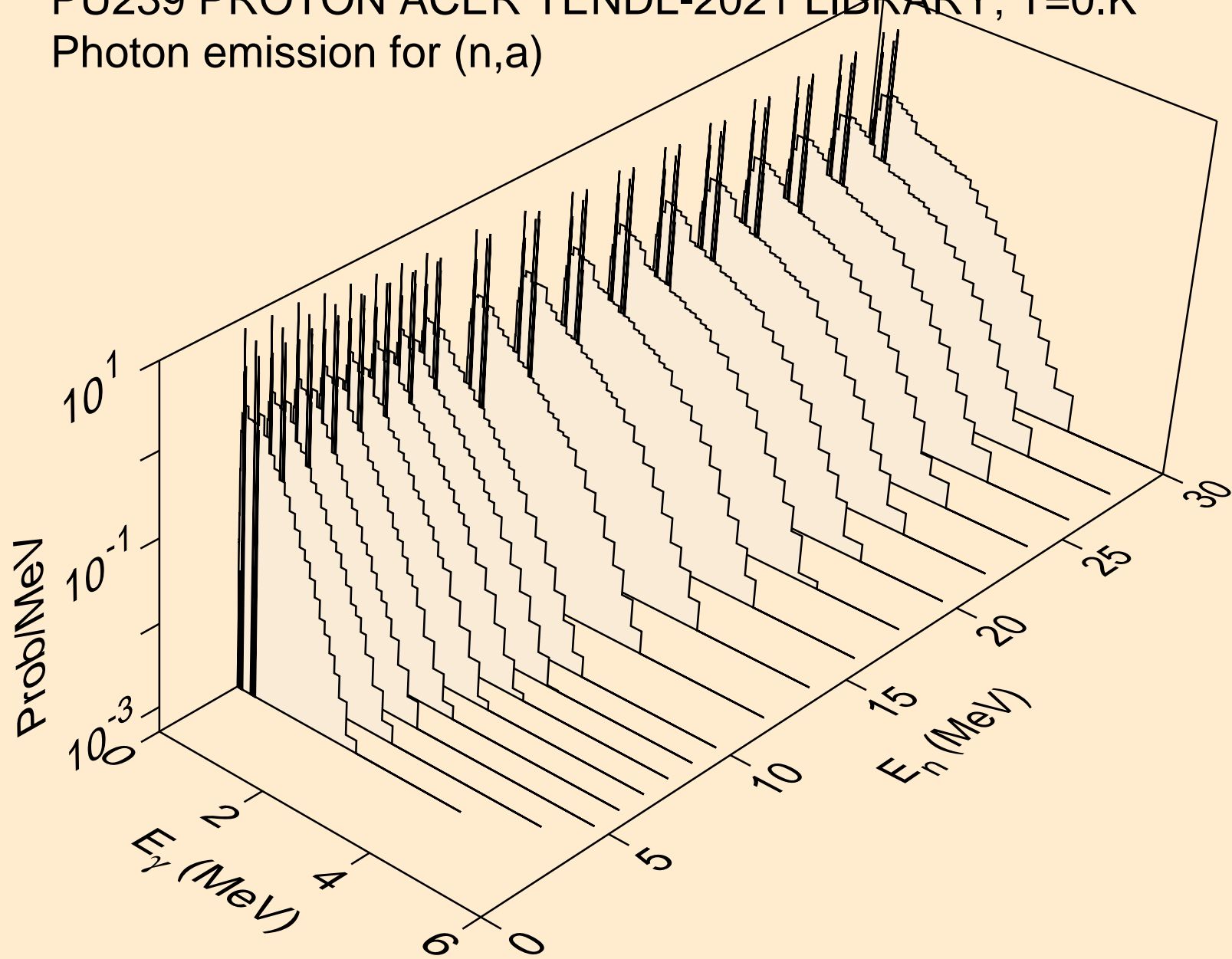
PU239 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
Photon emission for (n,t)



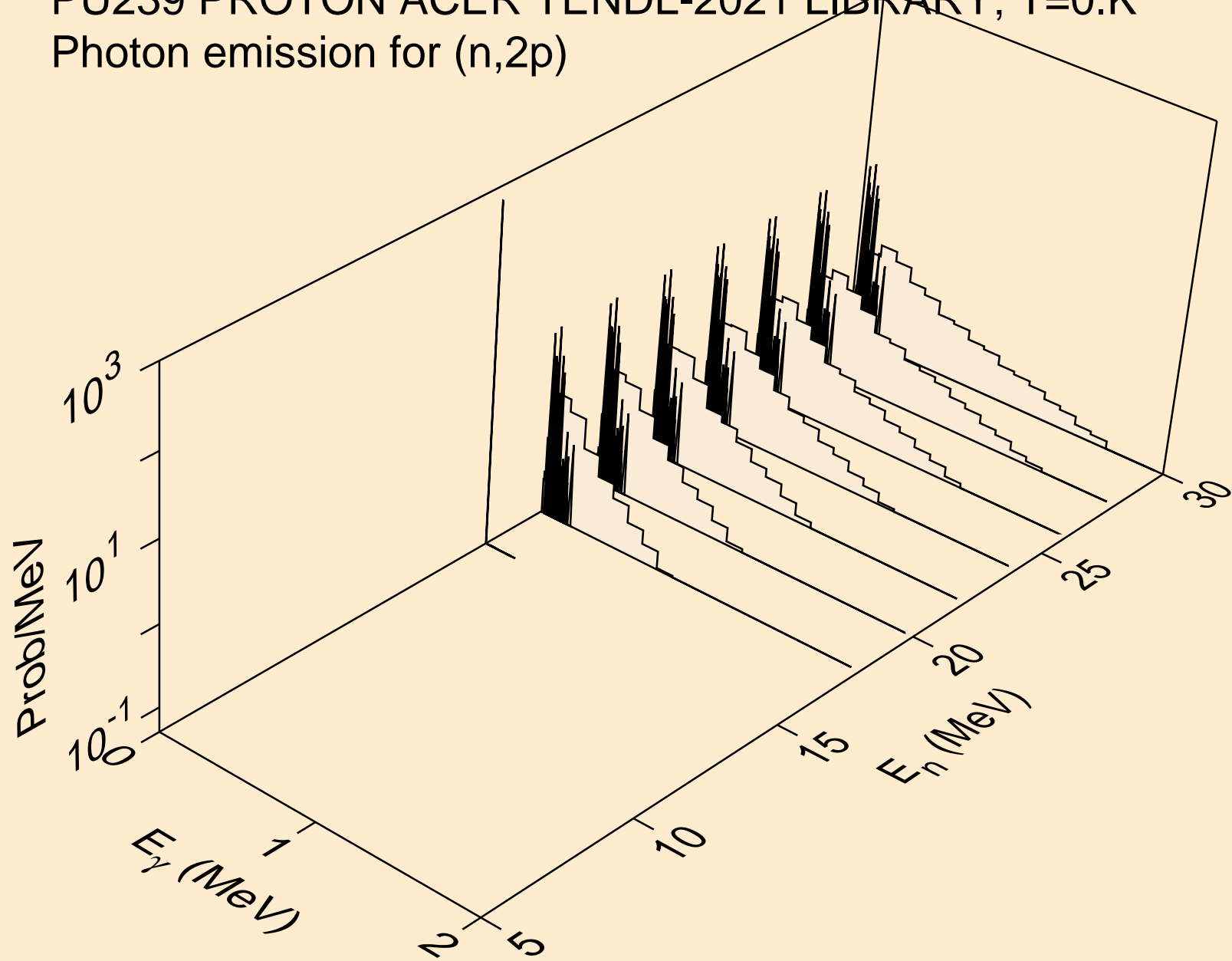
PU239 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
Photon emission for (n,he3)



PU239 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
Photon emission for (n,a)

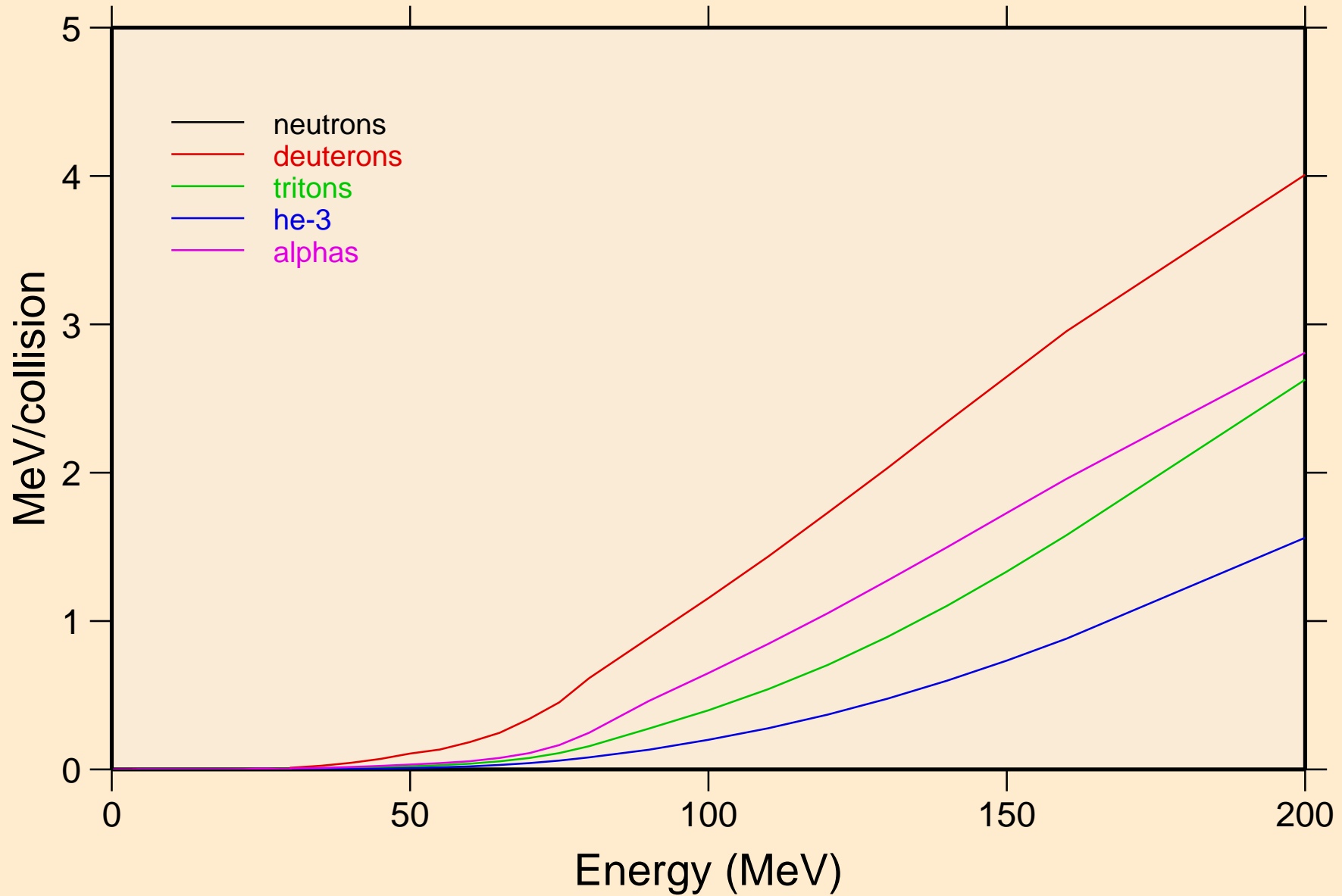


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Photon emission for (n,2p)

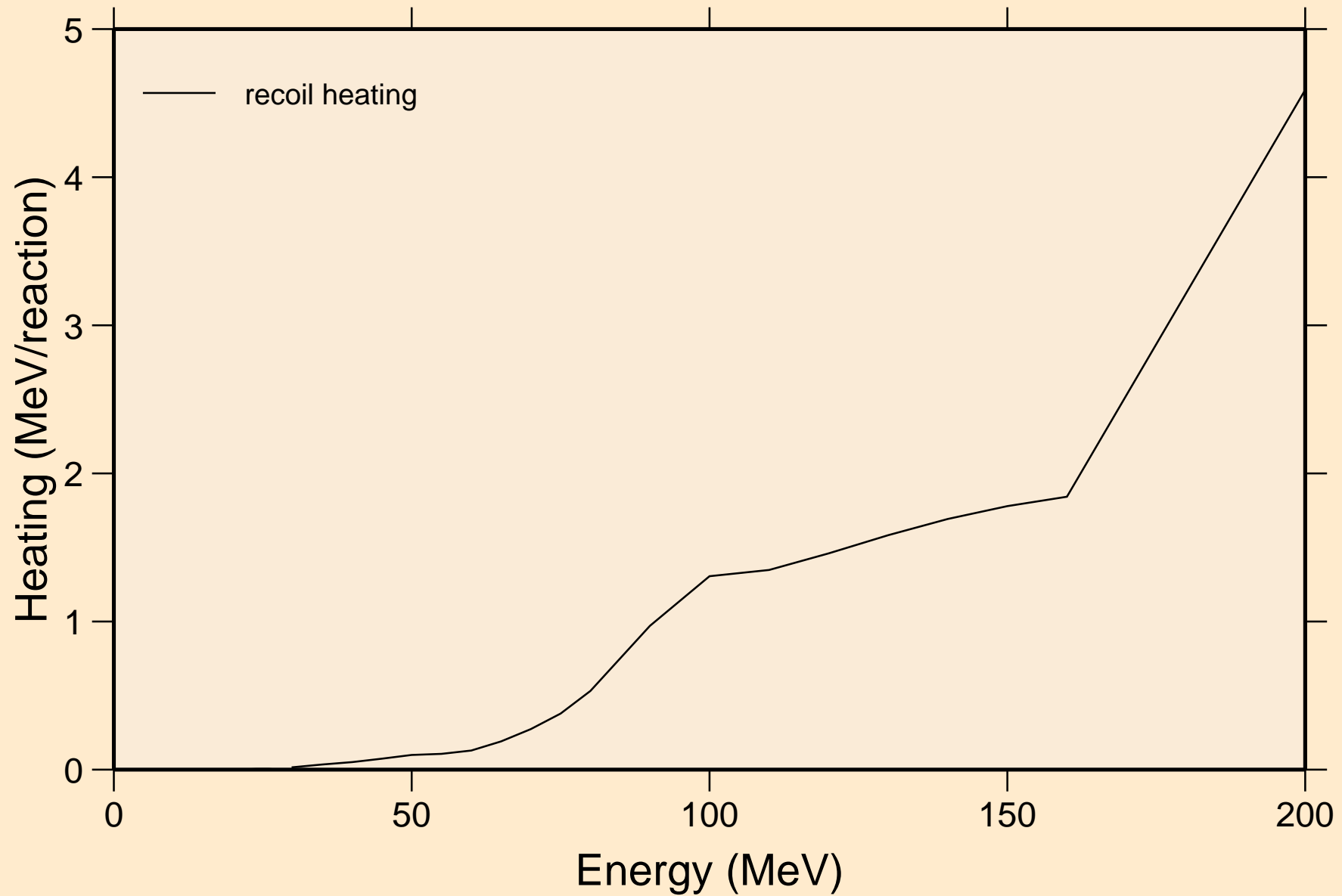




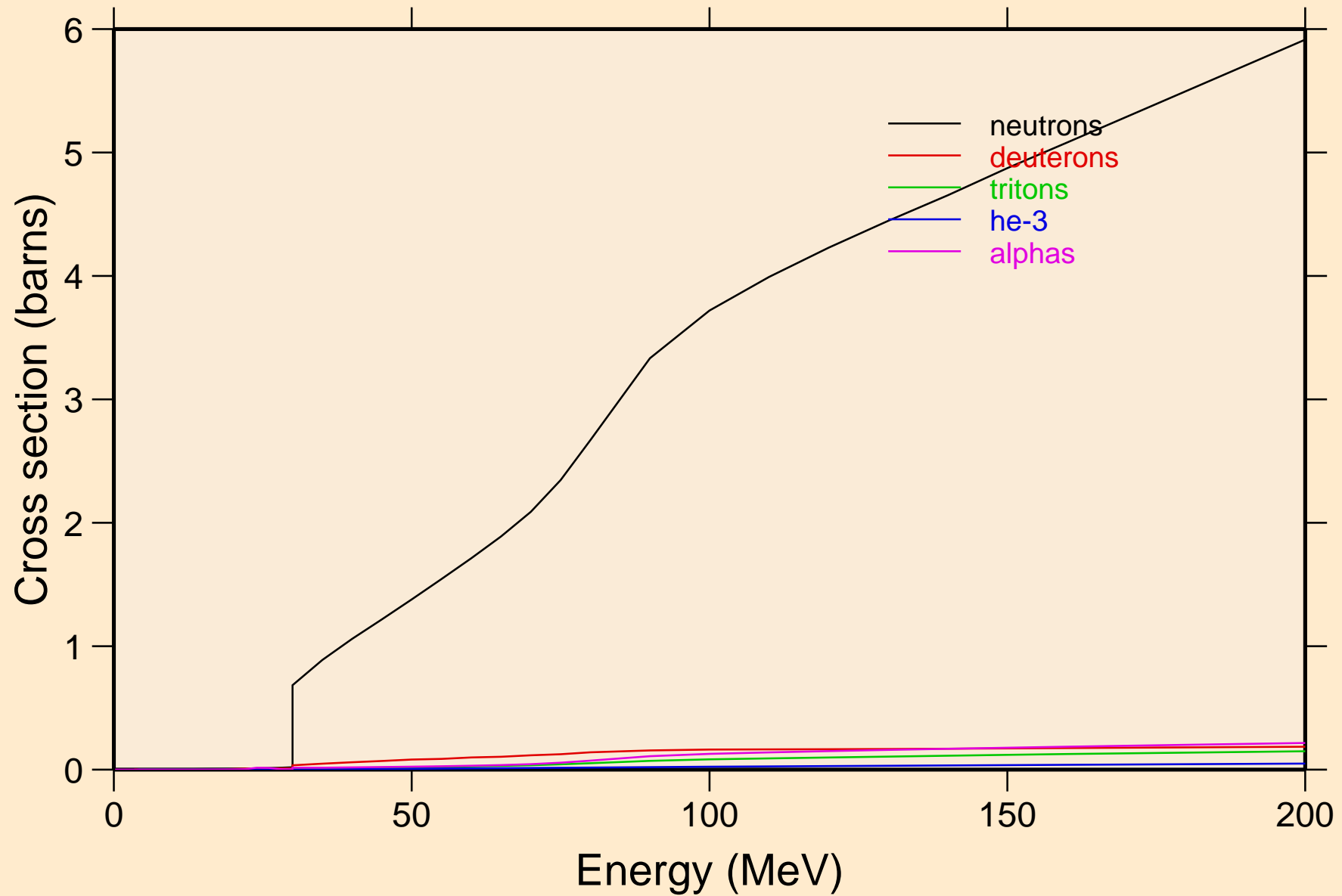
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Particle heating contributions



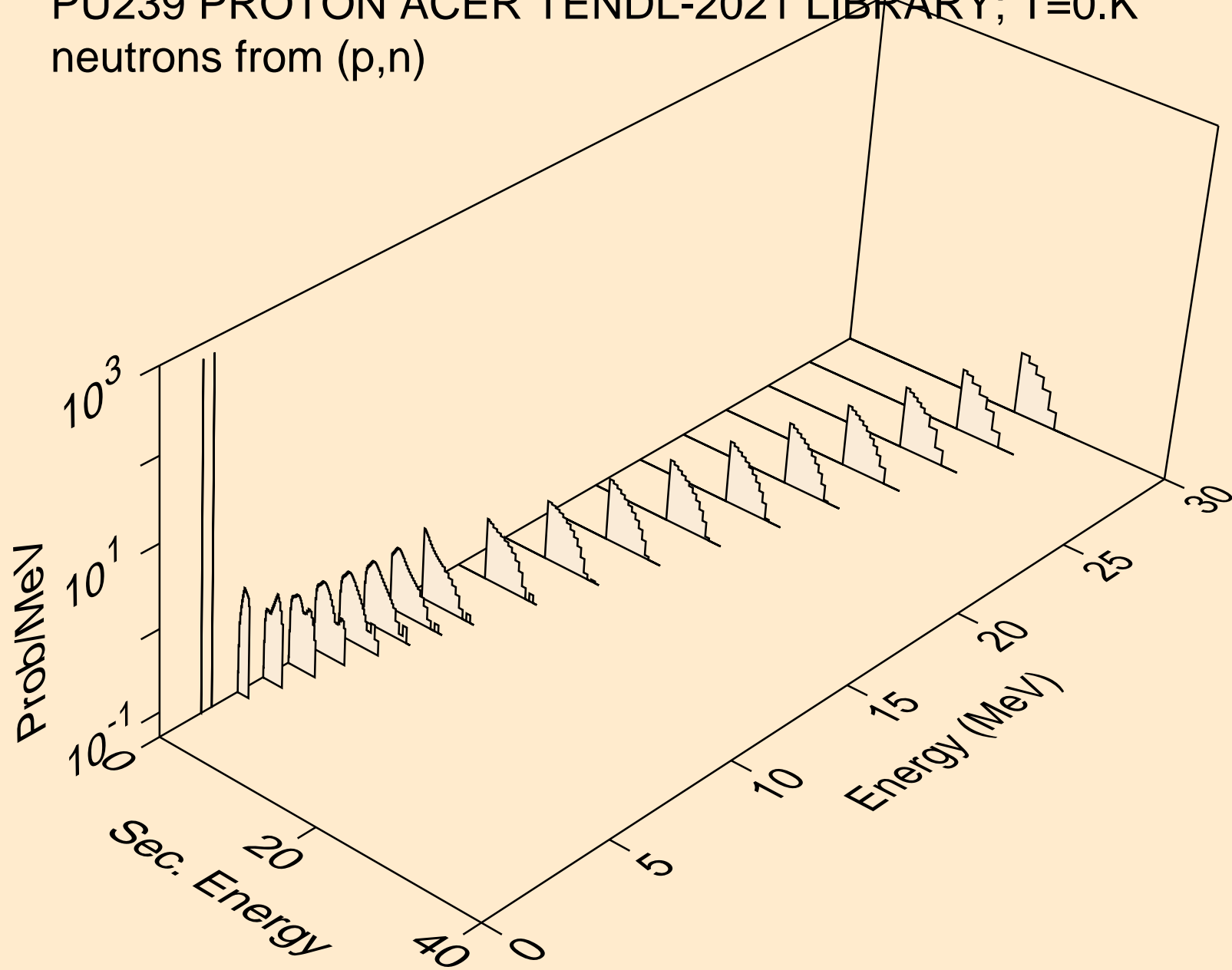
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Recoil Heating



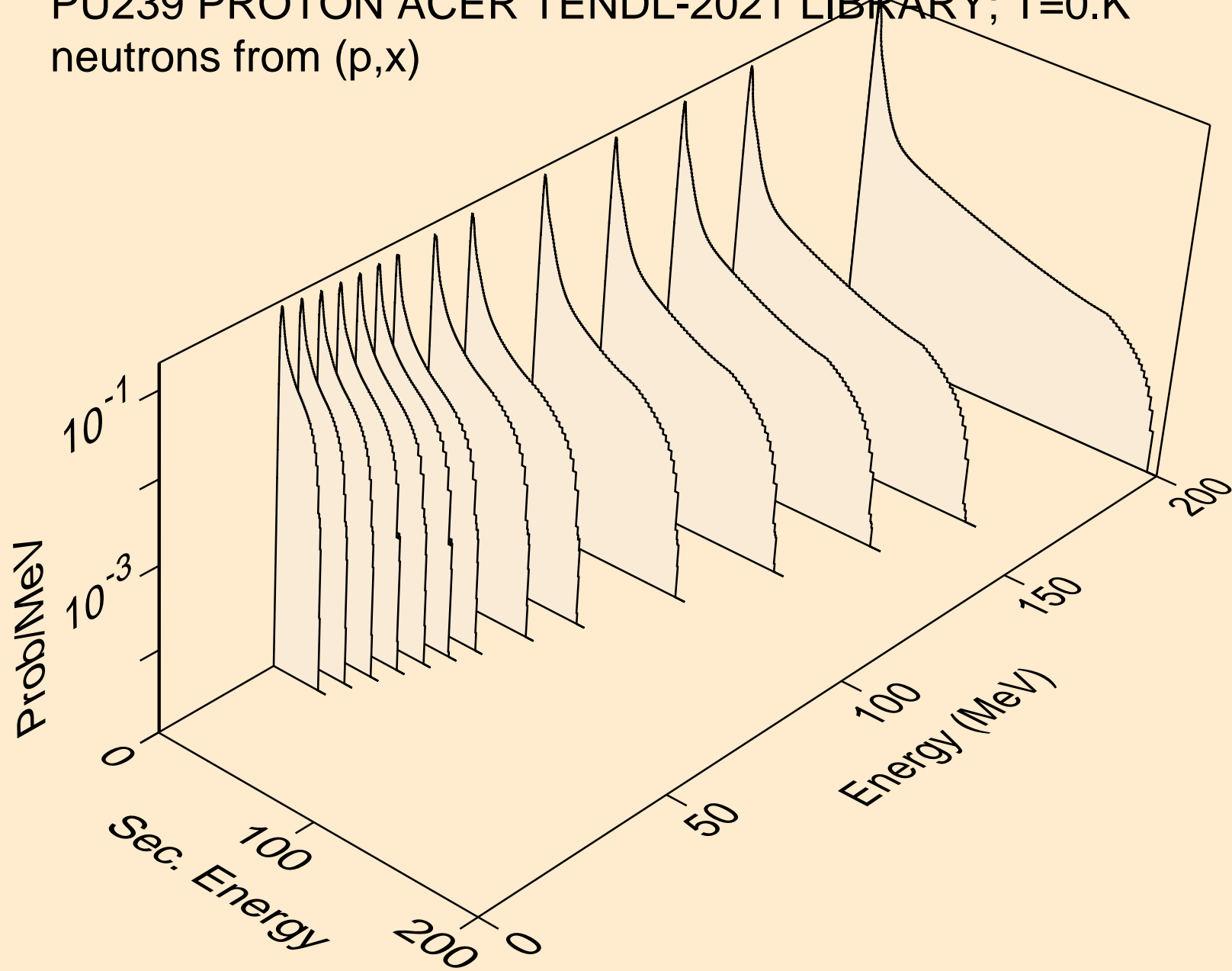
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Particle production cross sections



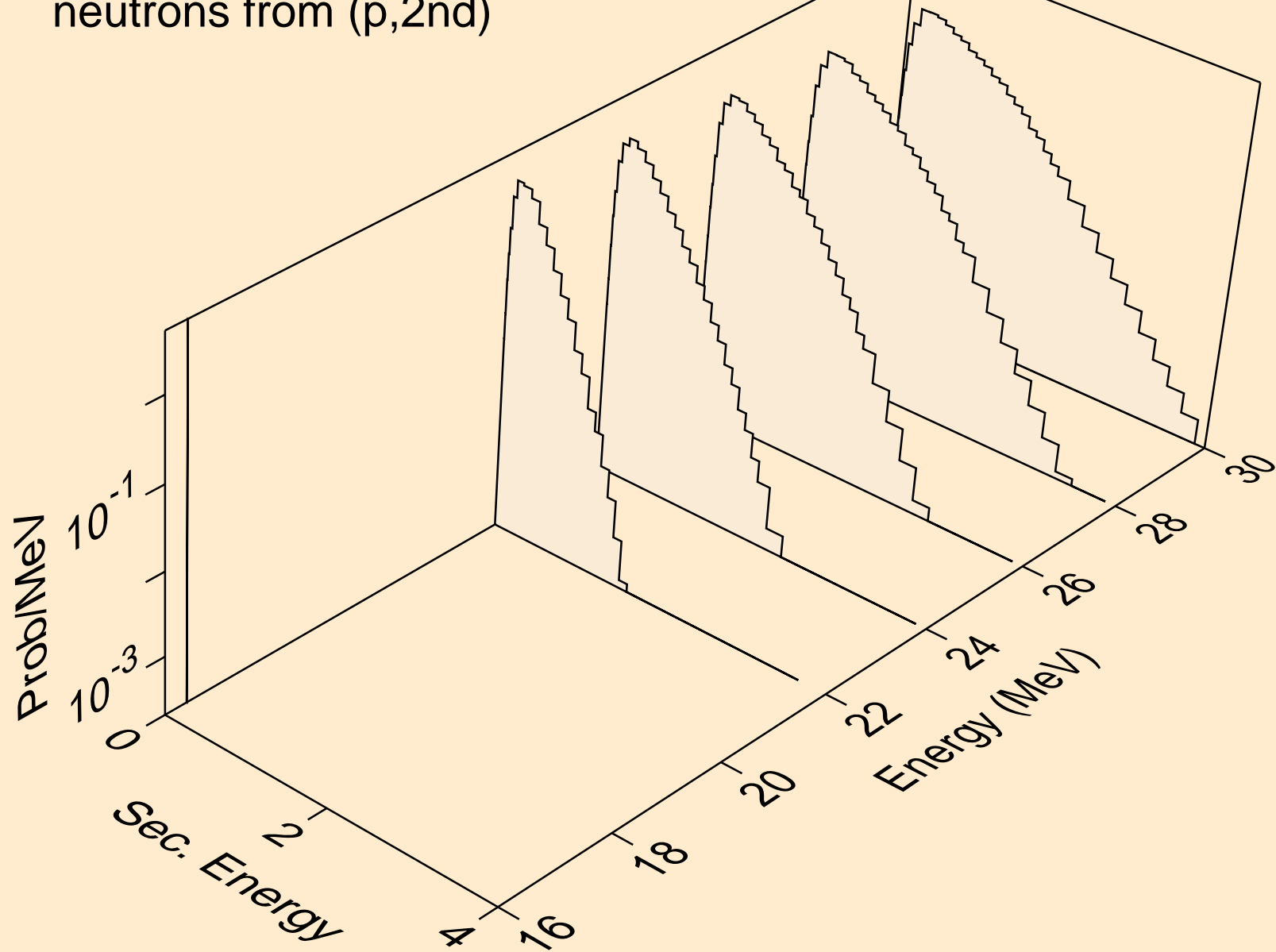
PU239 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
neutrons from (p,n)



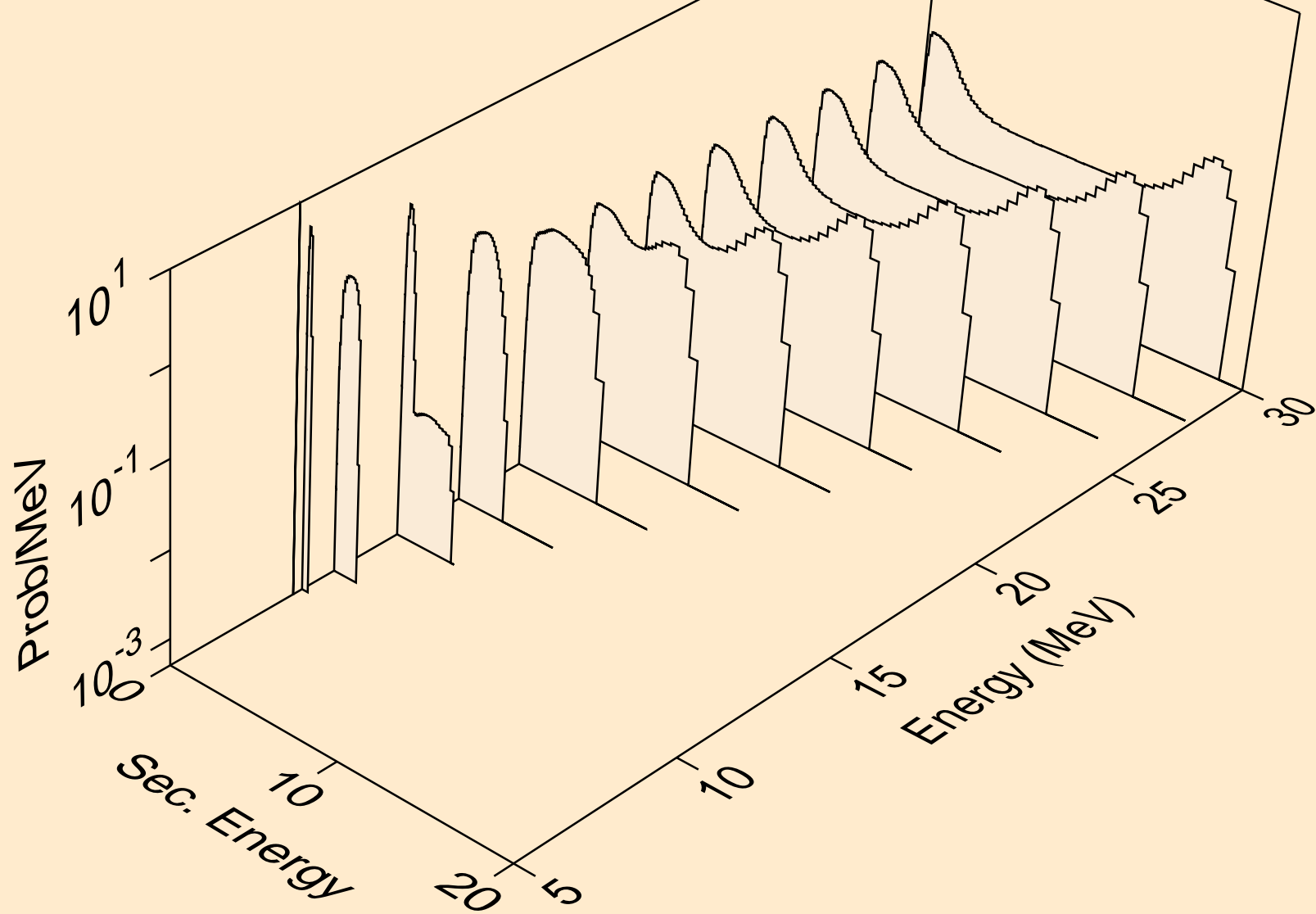
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neutrons from (p,x)



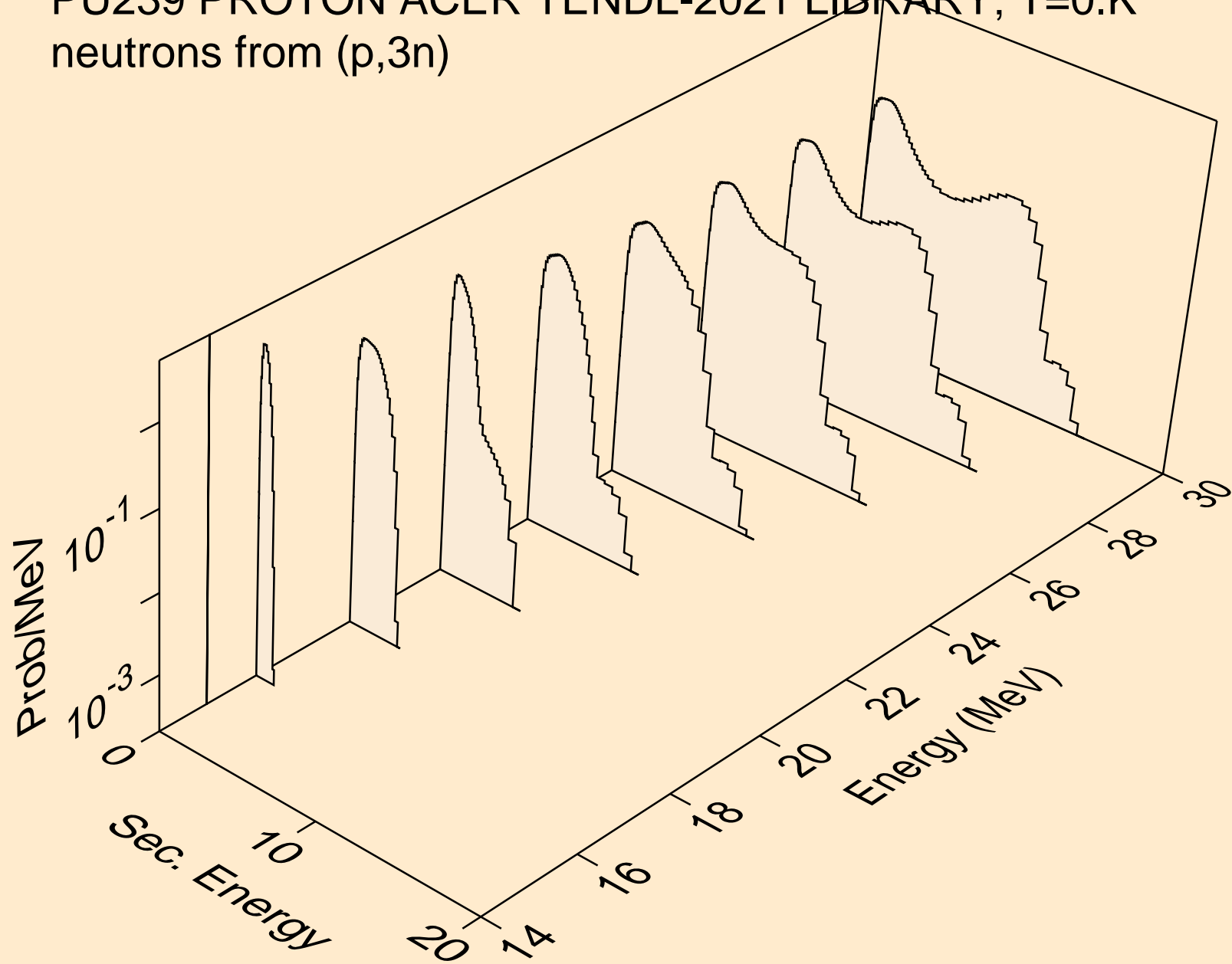
PU239 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
neutrons from (p,2nd)



PU239 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
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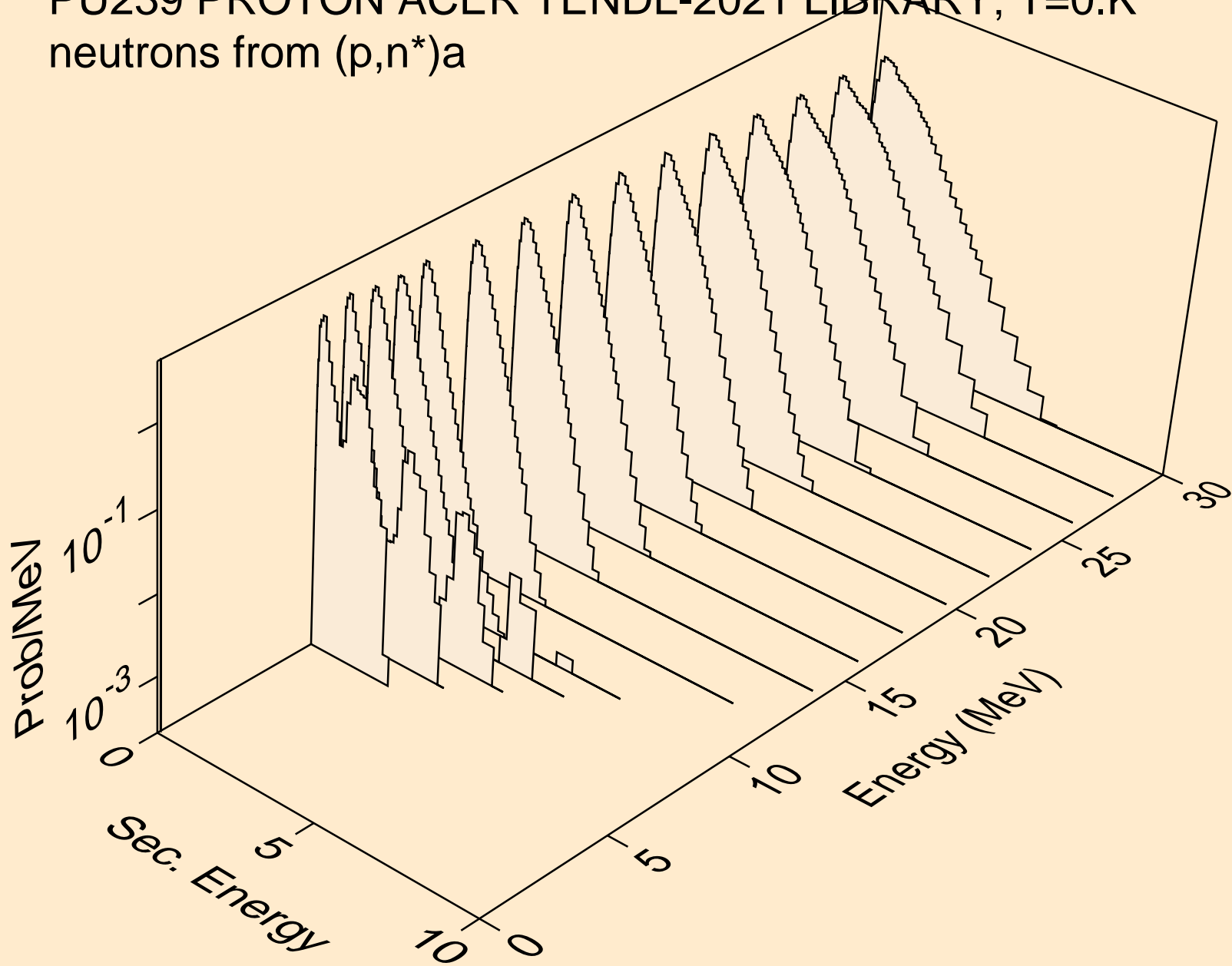


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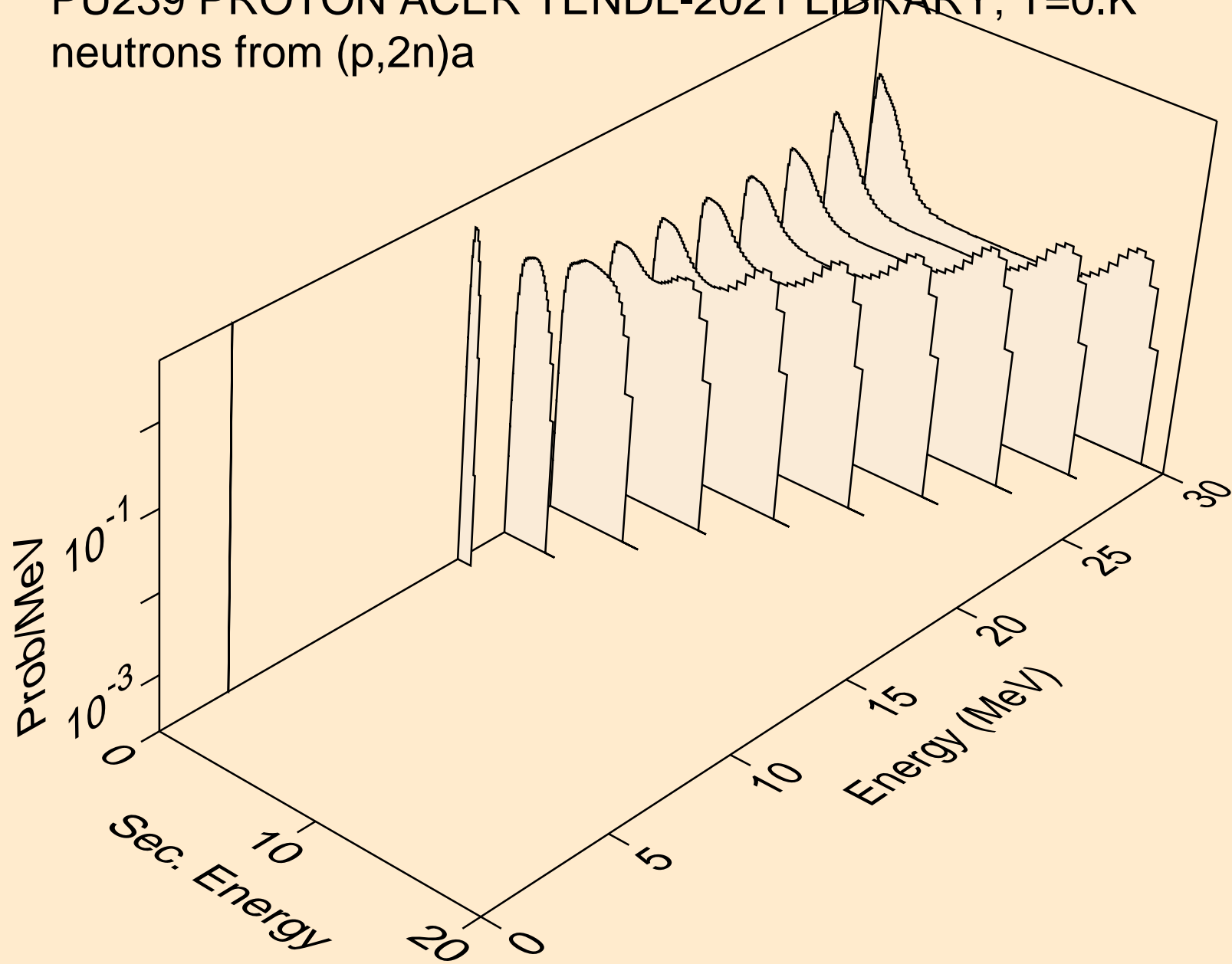




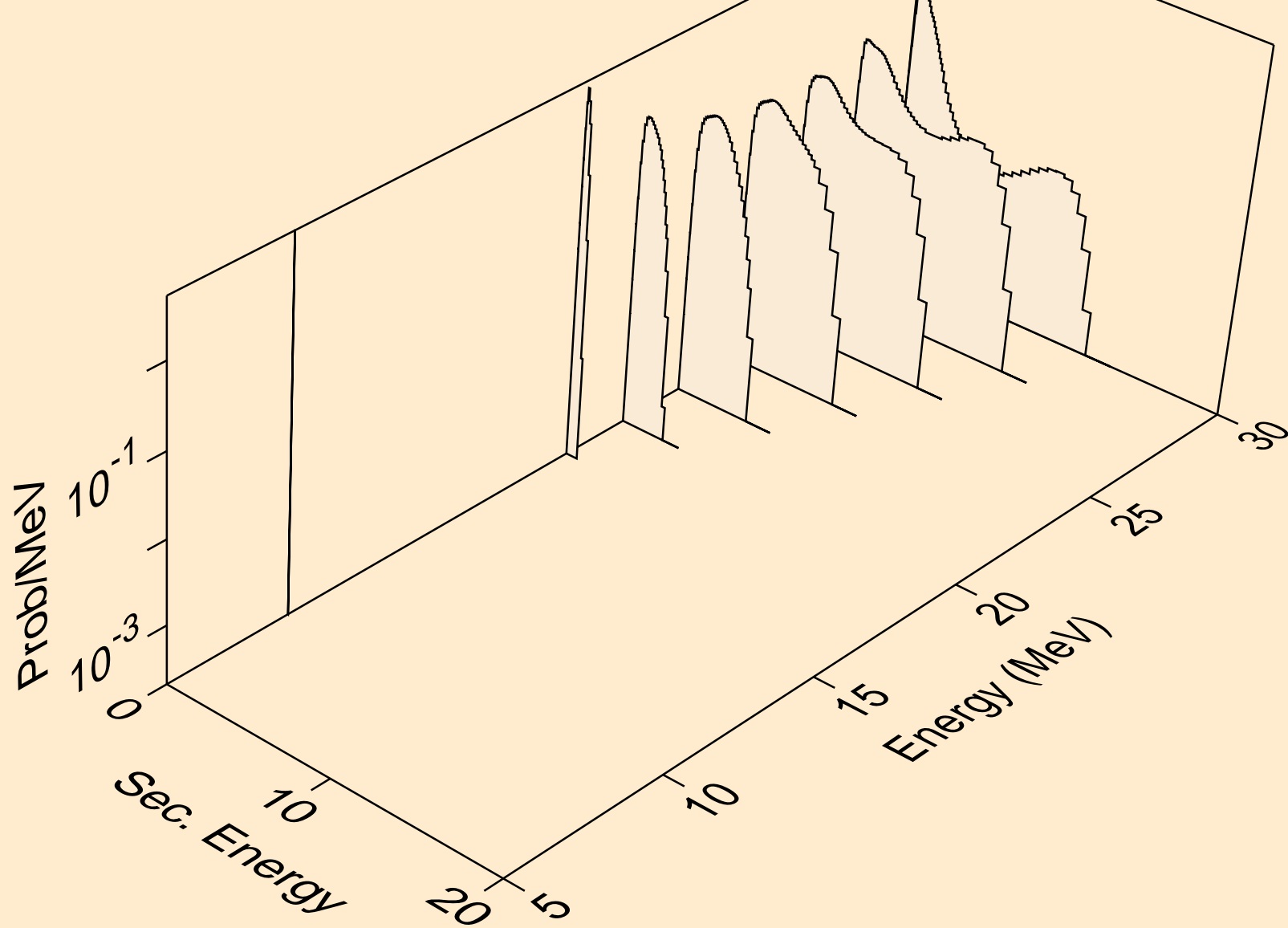
PU239 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
neutrons from (p,n\*)a



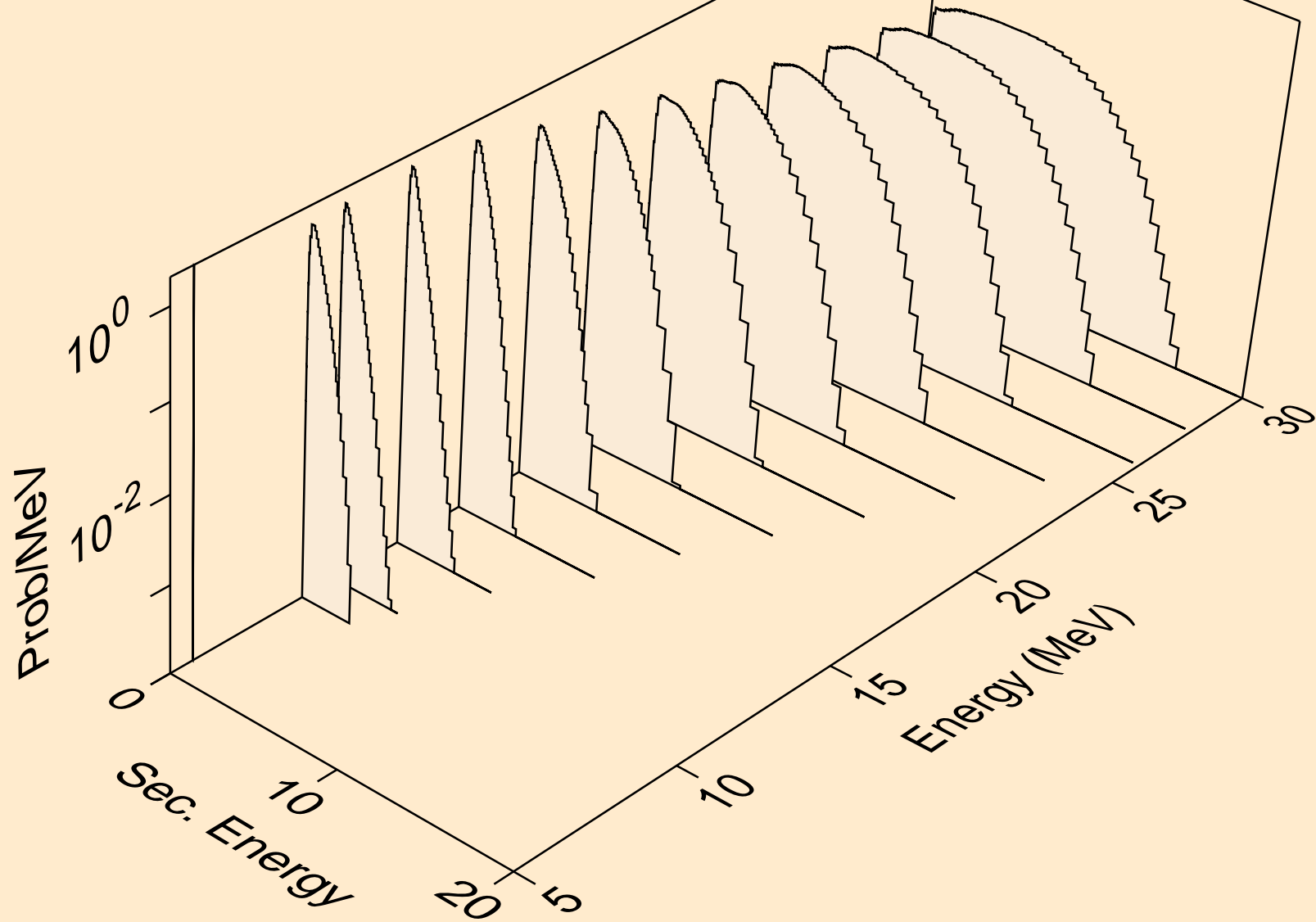
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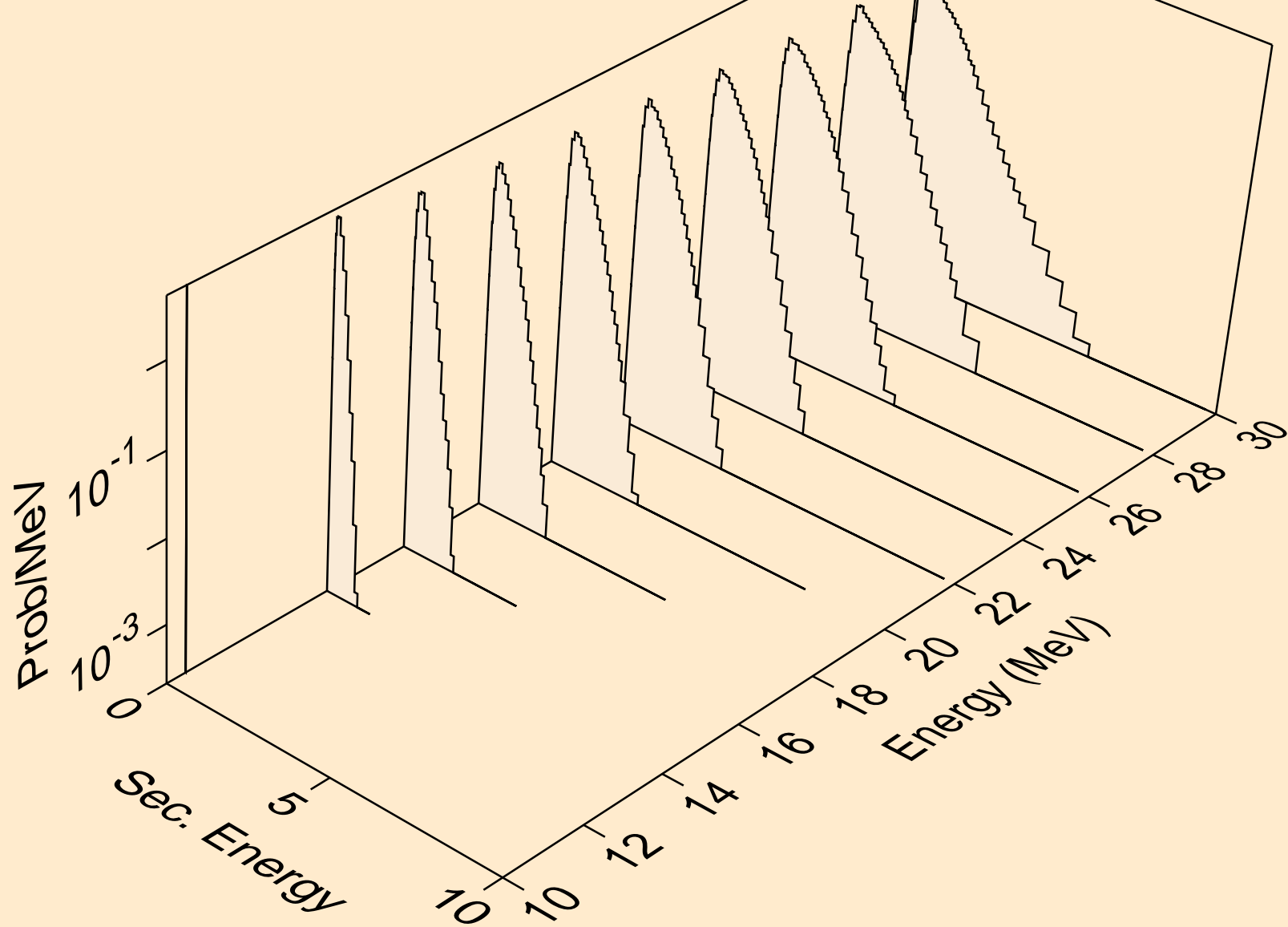
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neutrons from (p,3n)a



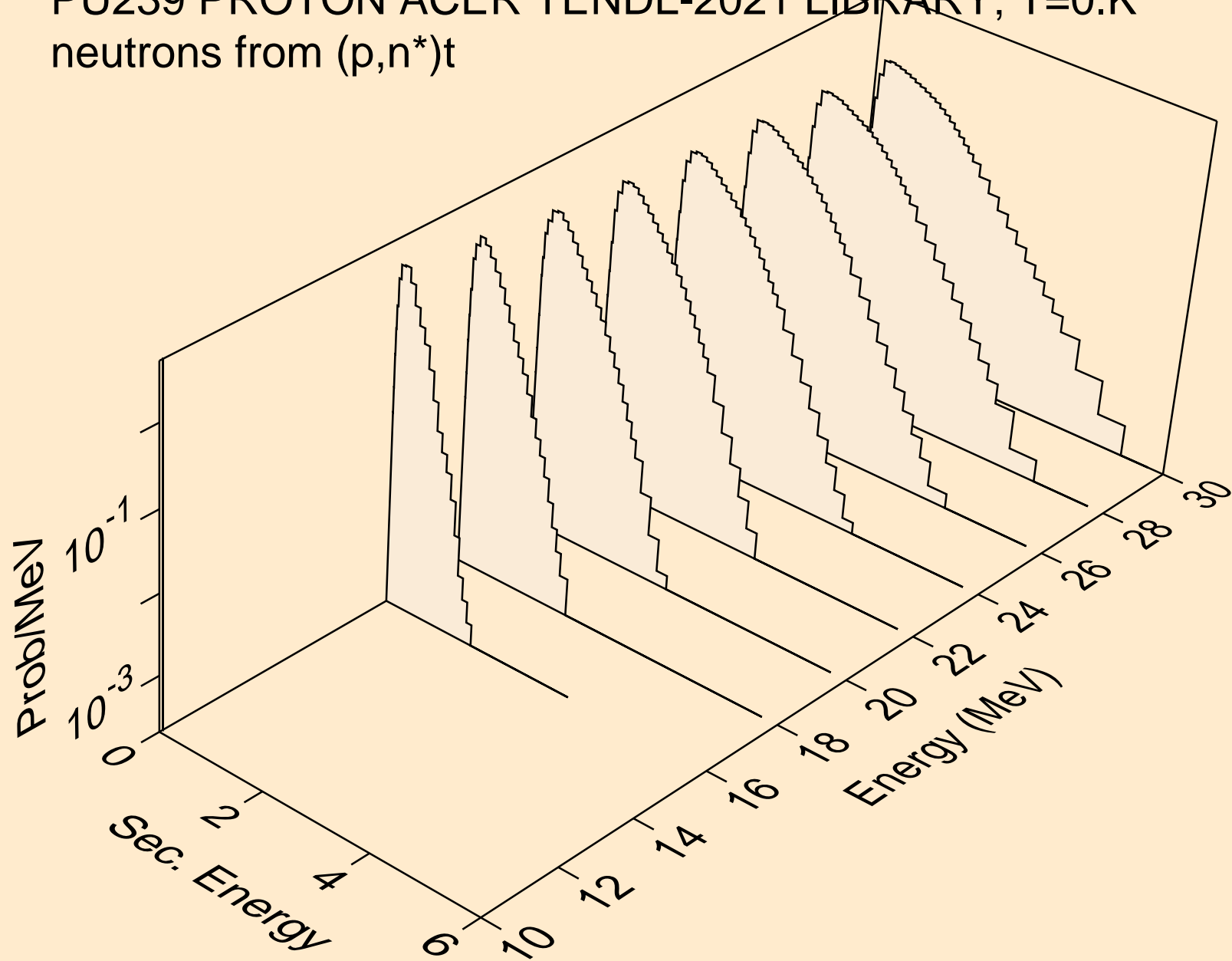
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neutrons from (p,n\*)p



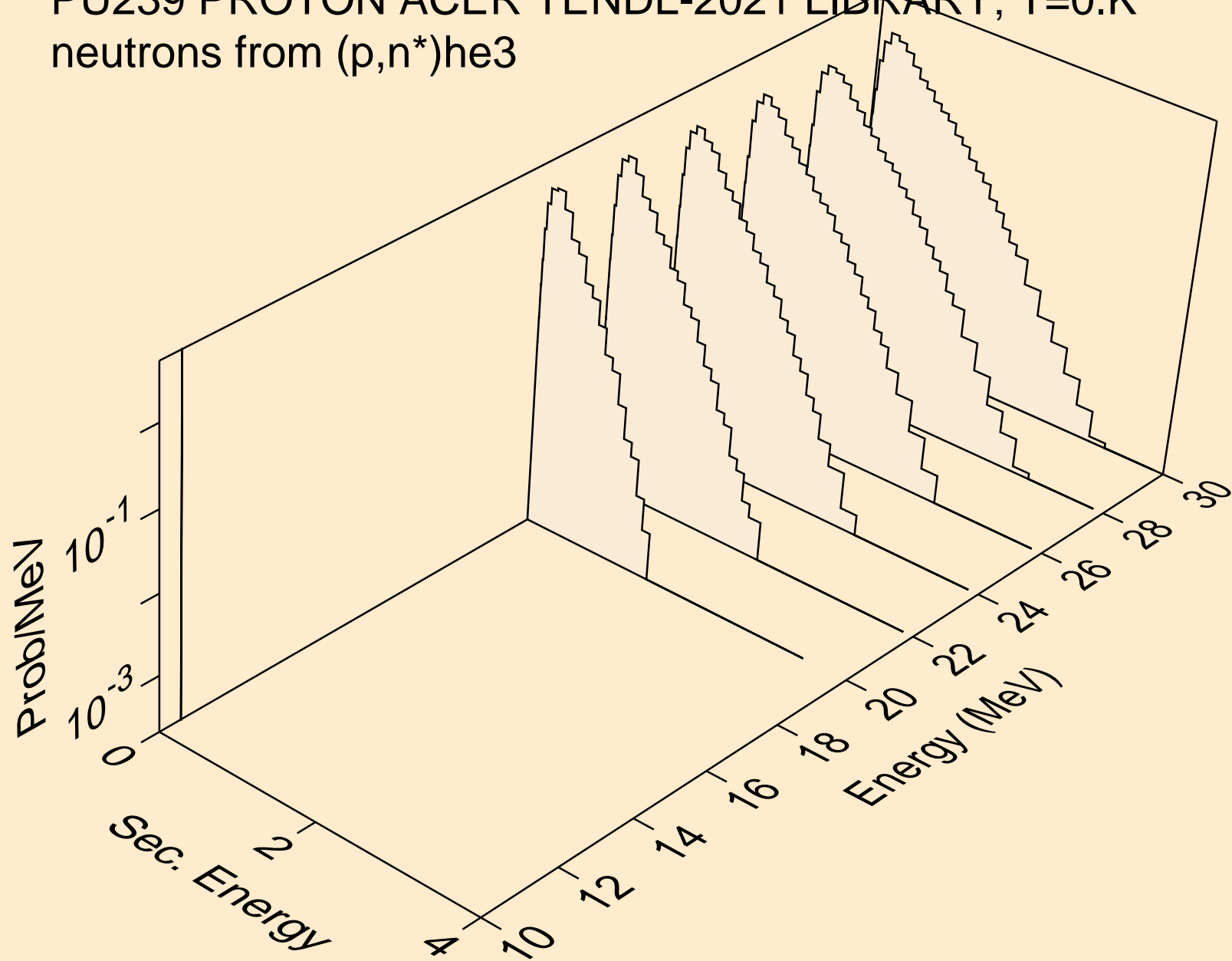
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neutrons from (p,n\*)d



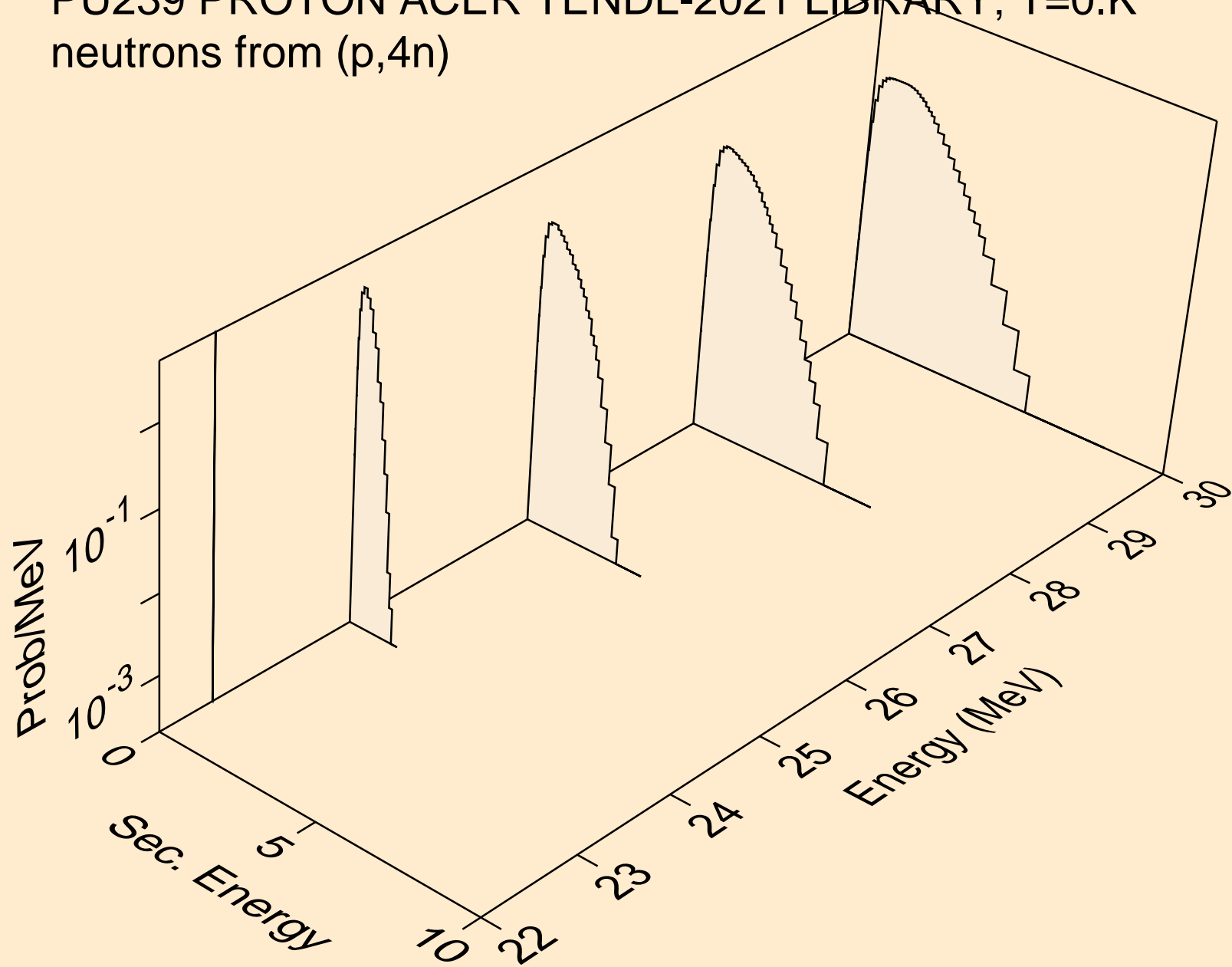
PU239 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
neutrons from (p,n\*)t



PU239 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
neutrons from (p,n\*)he3

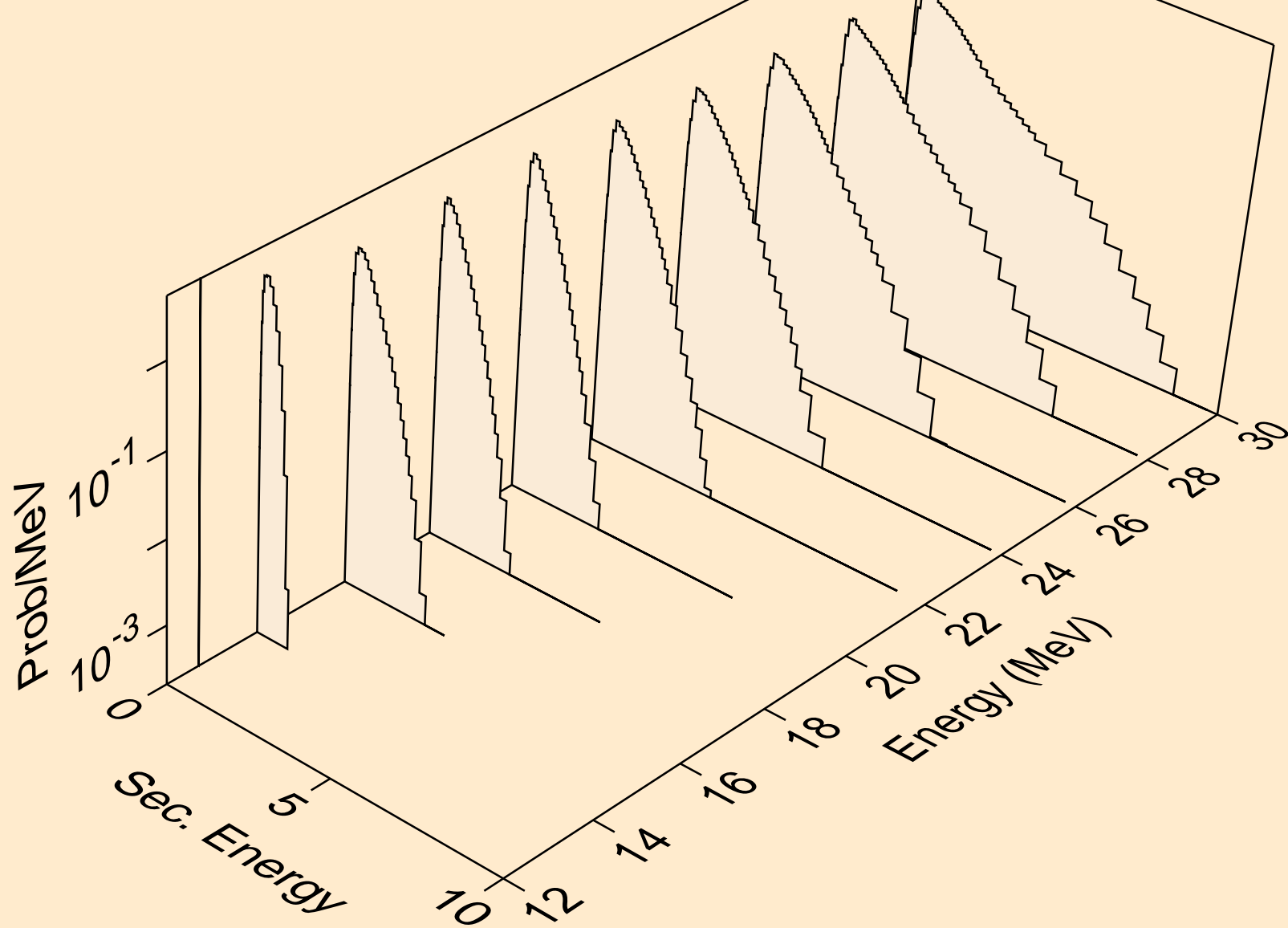


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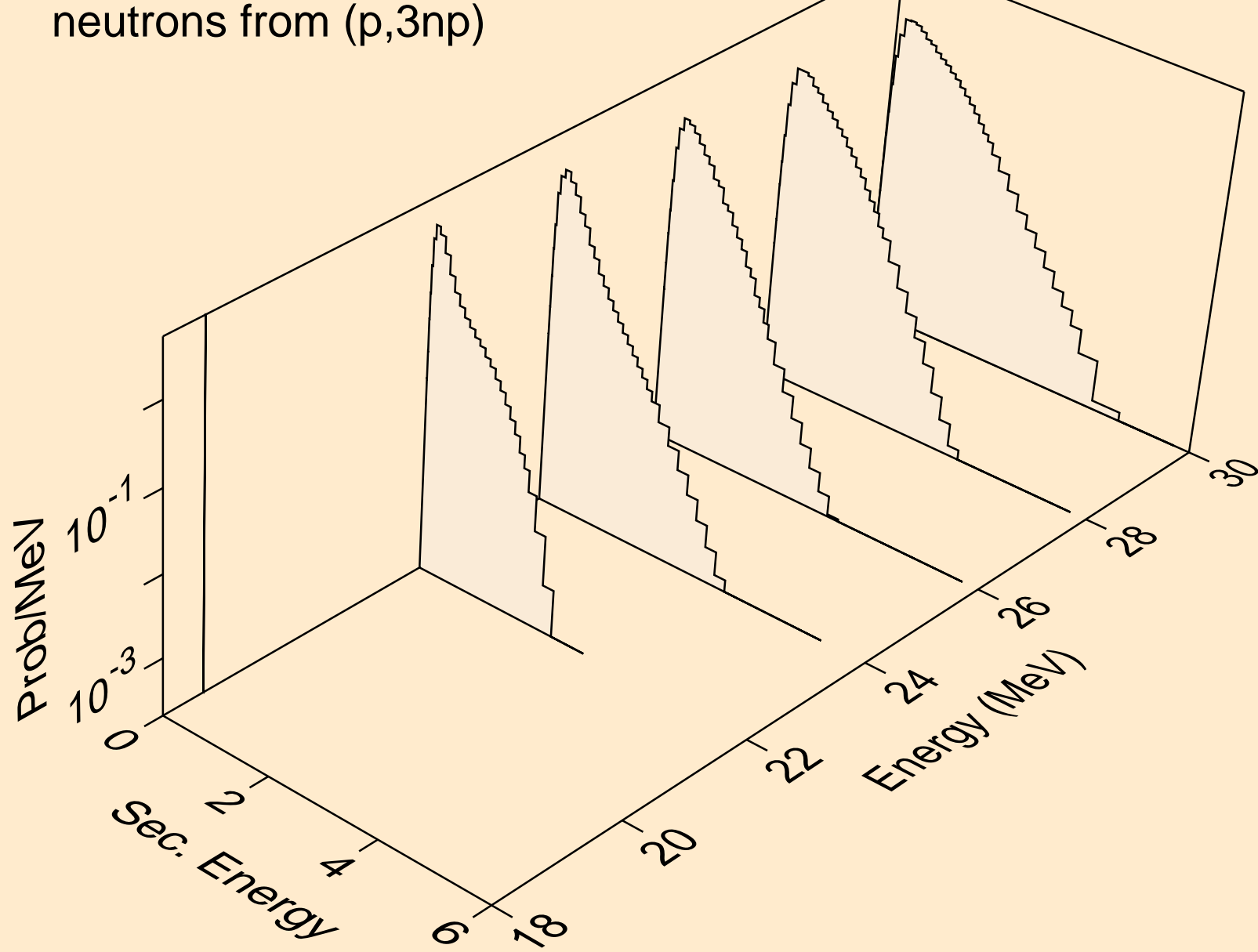




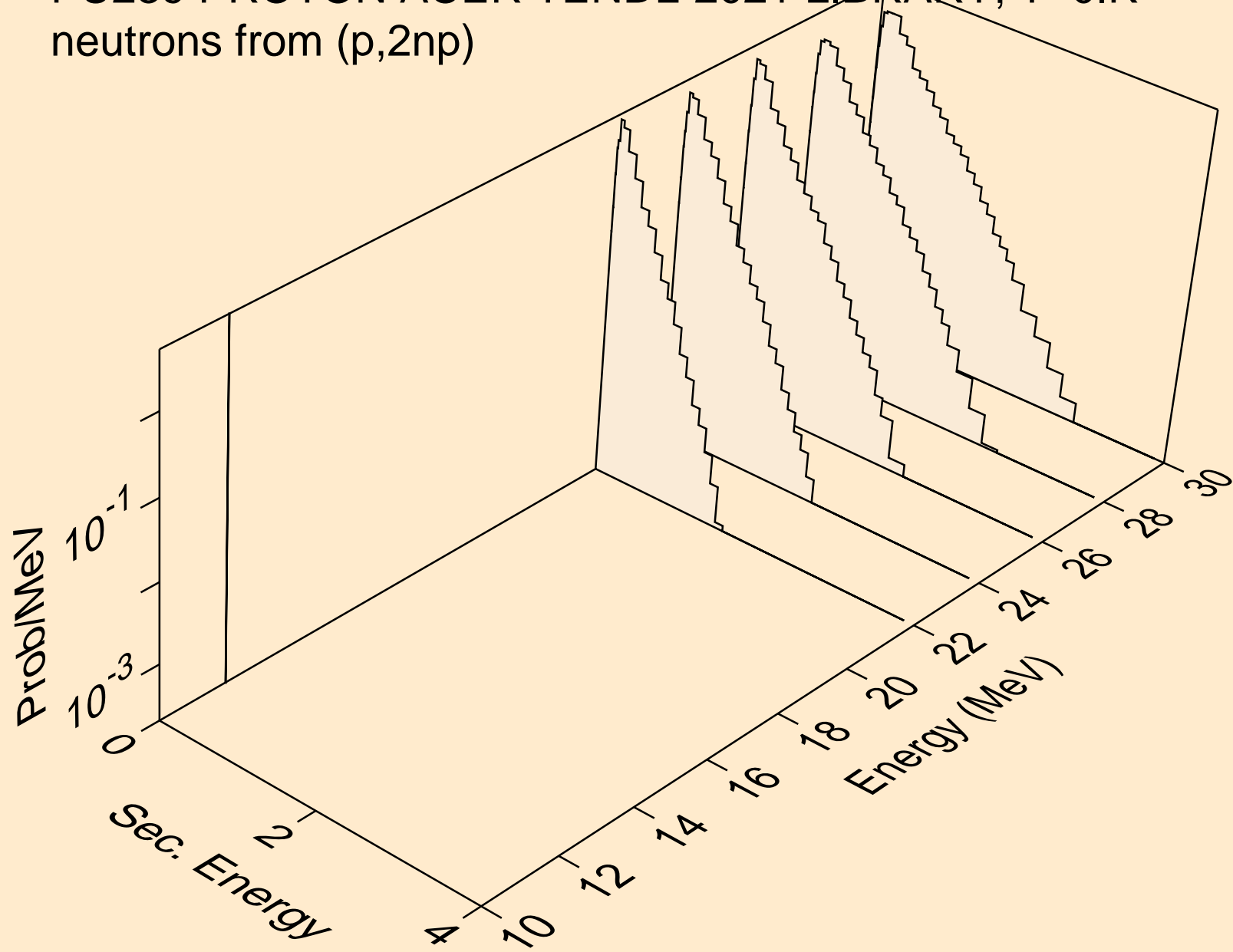
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neutrons from (p,2np)



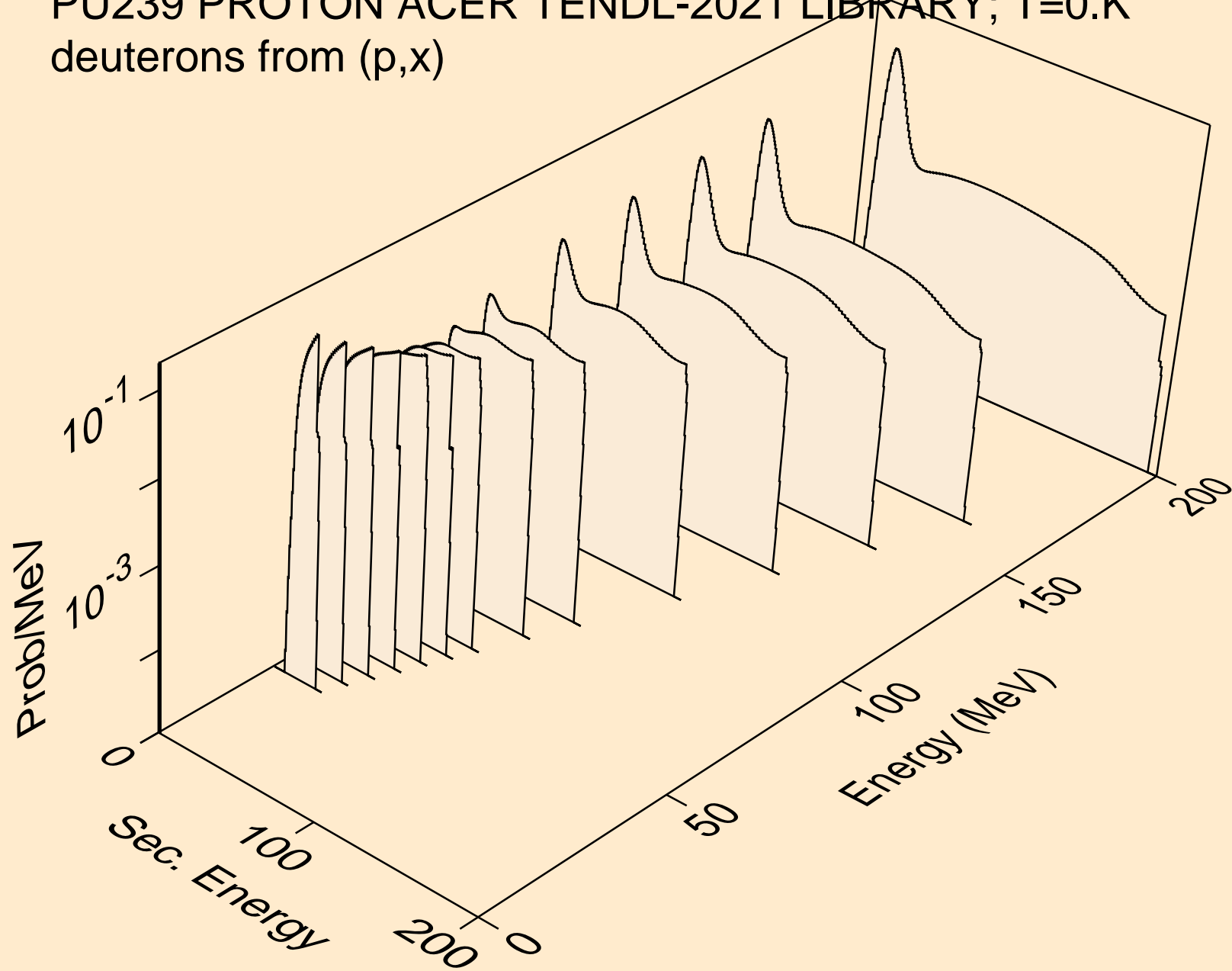
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neutrons from (p,3np)



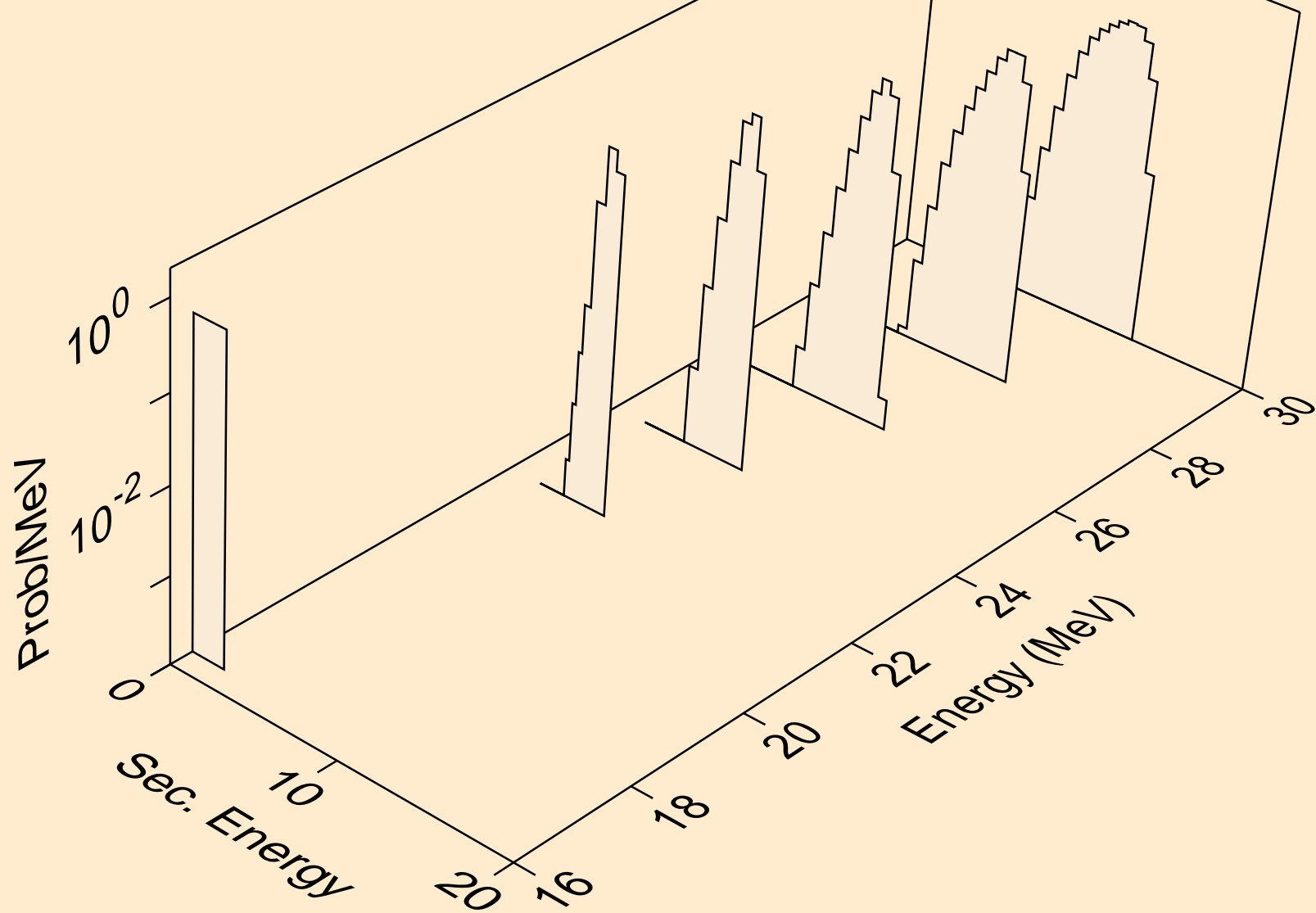
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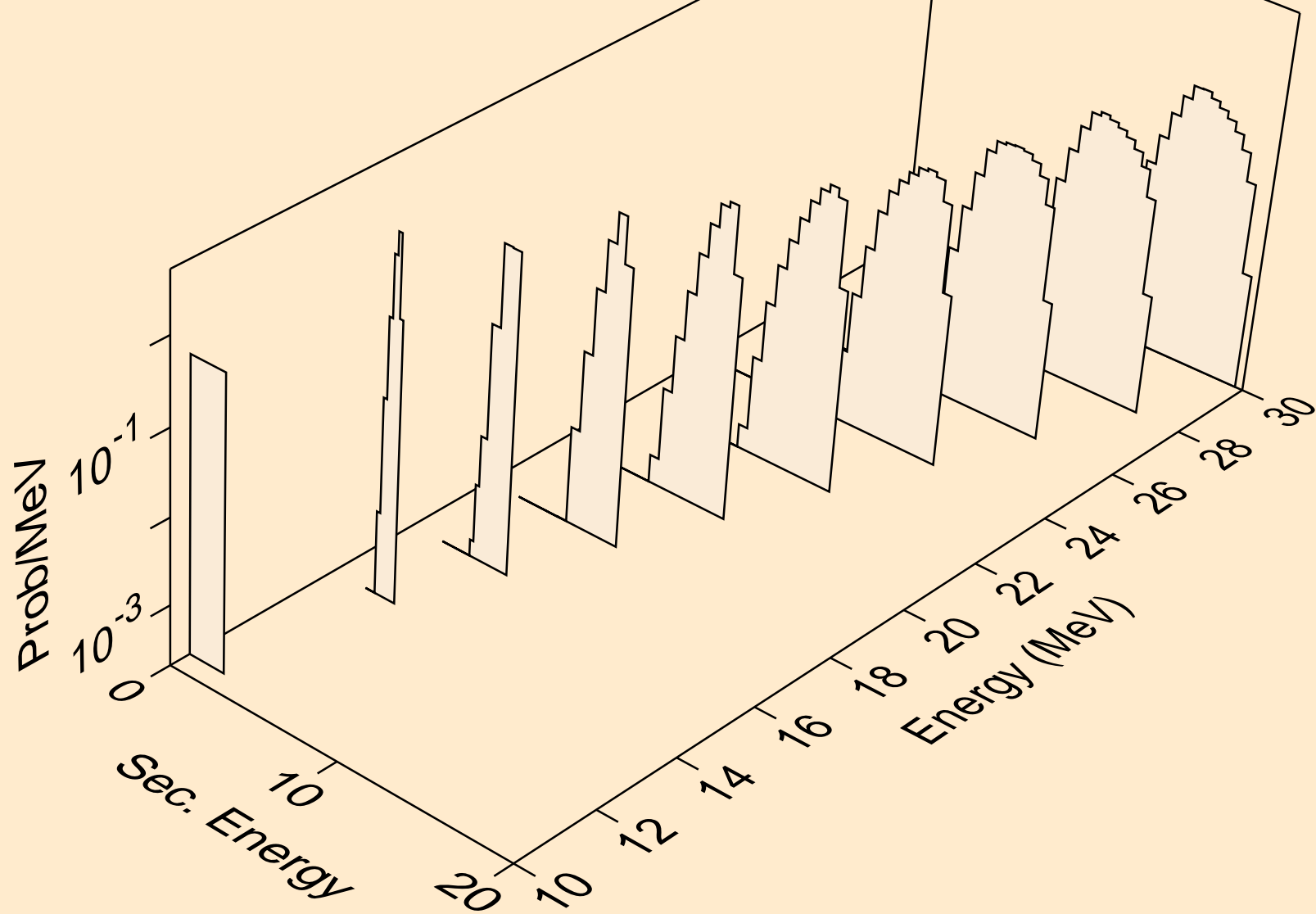
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deuterons from (p,x)



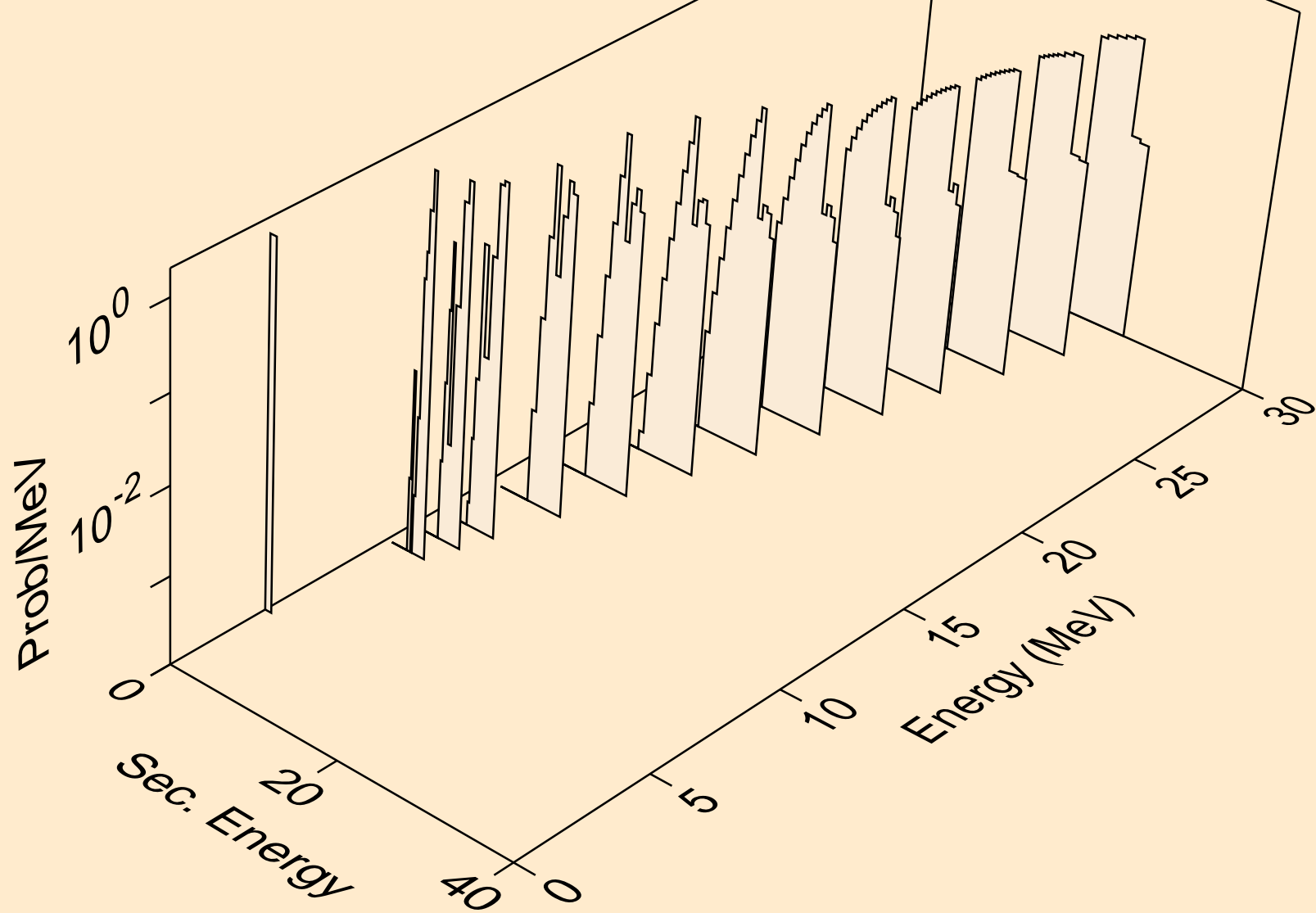
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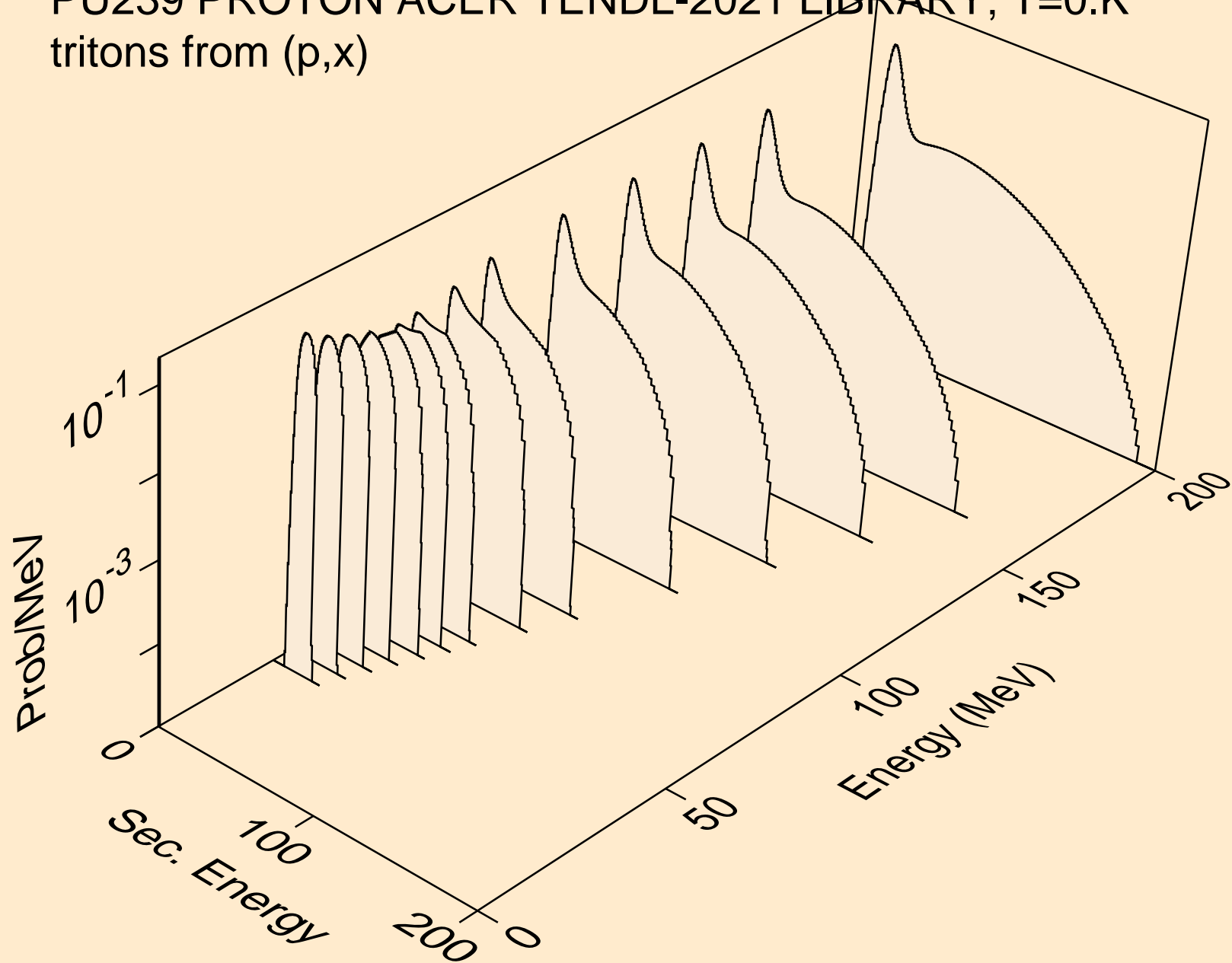
PU239 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
deuterons from (p,n\*)d



PU239 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
deuterons from (p,d)

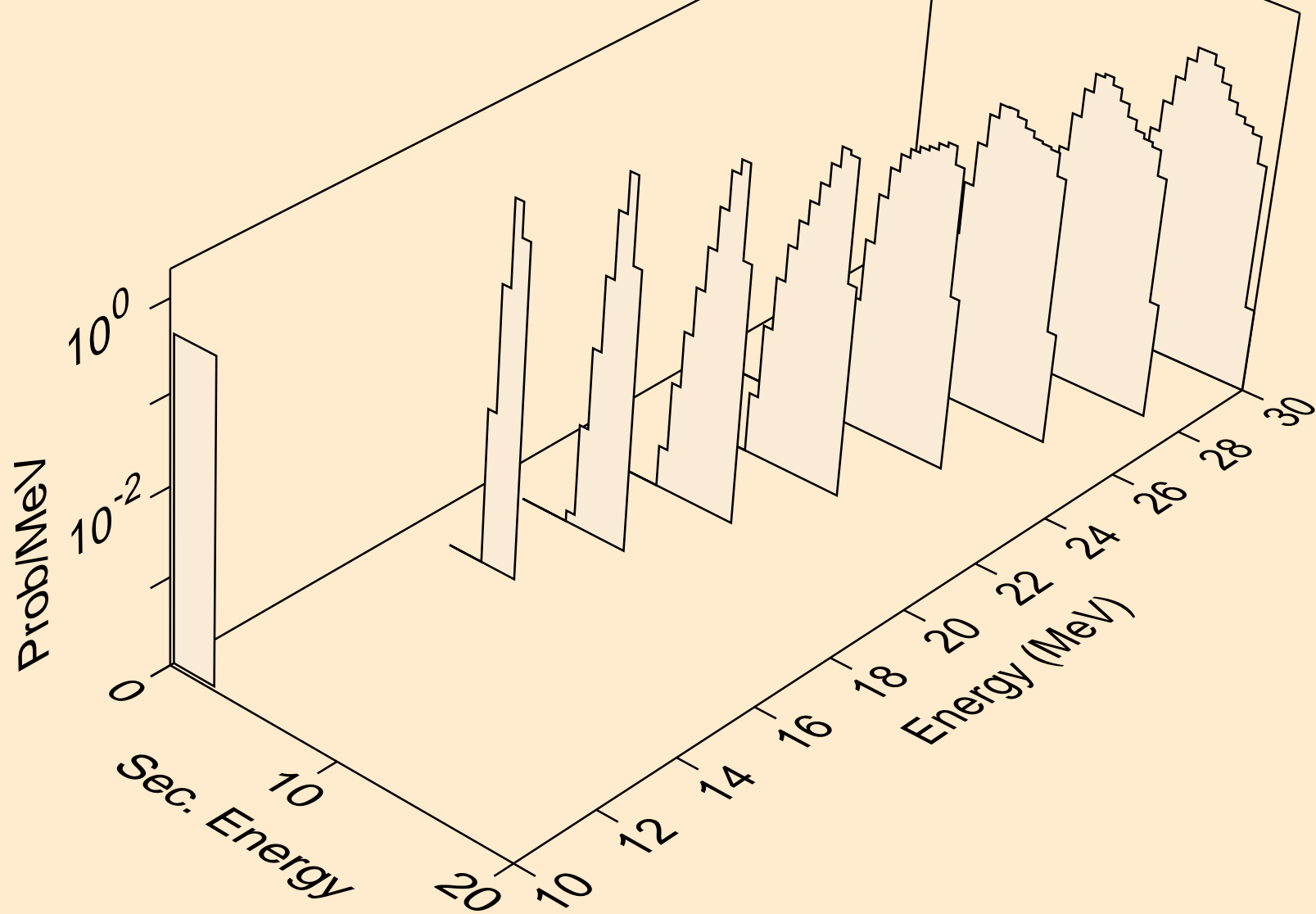


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tritons from (p,x)

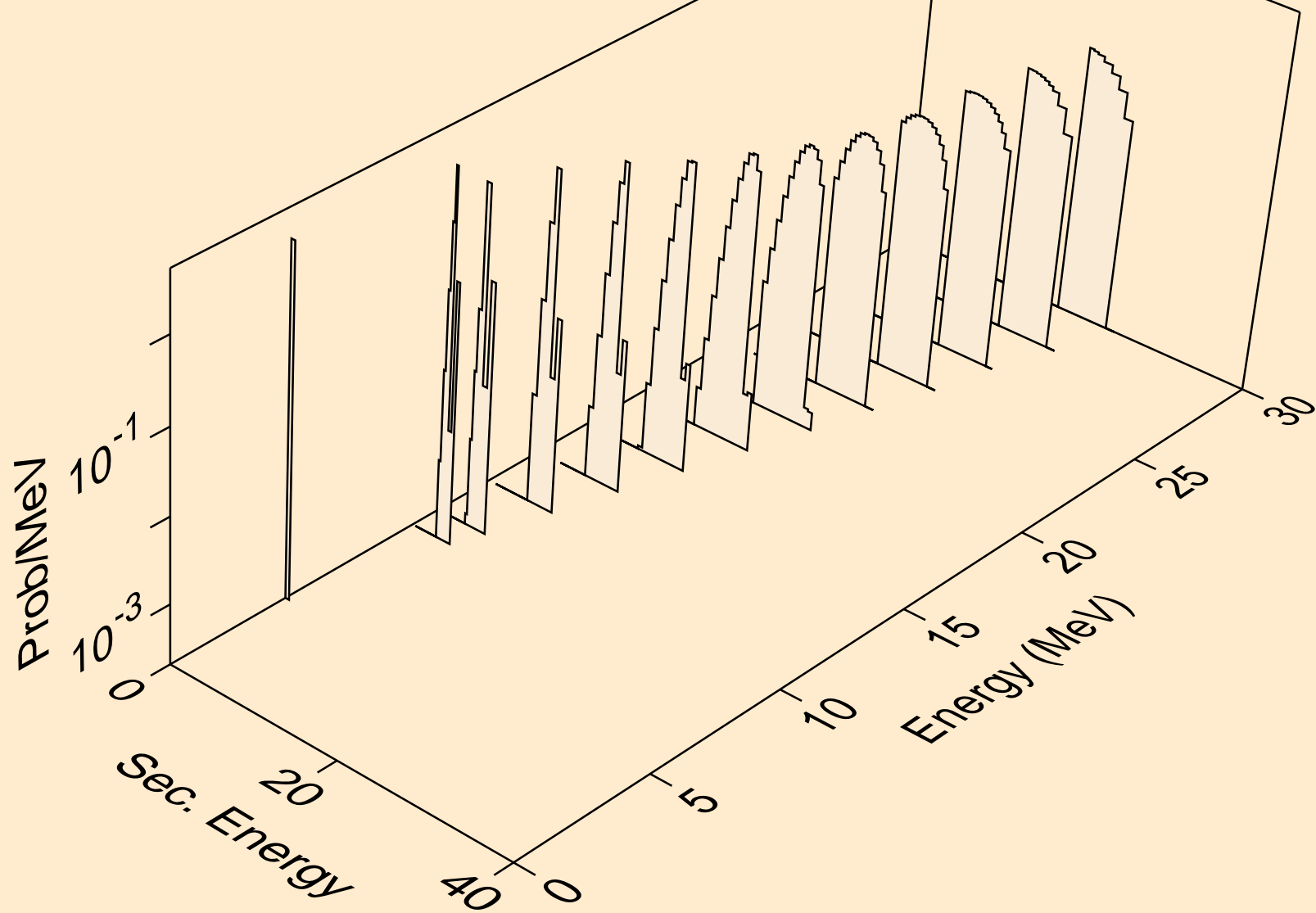




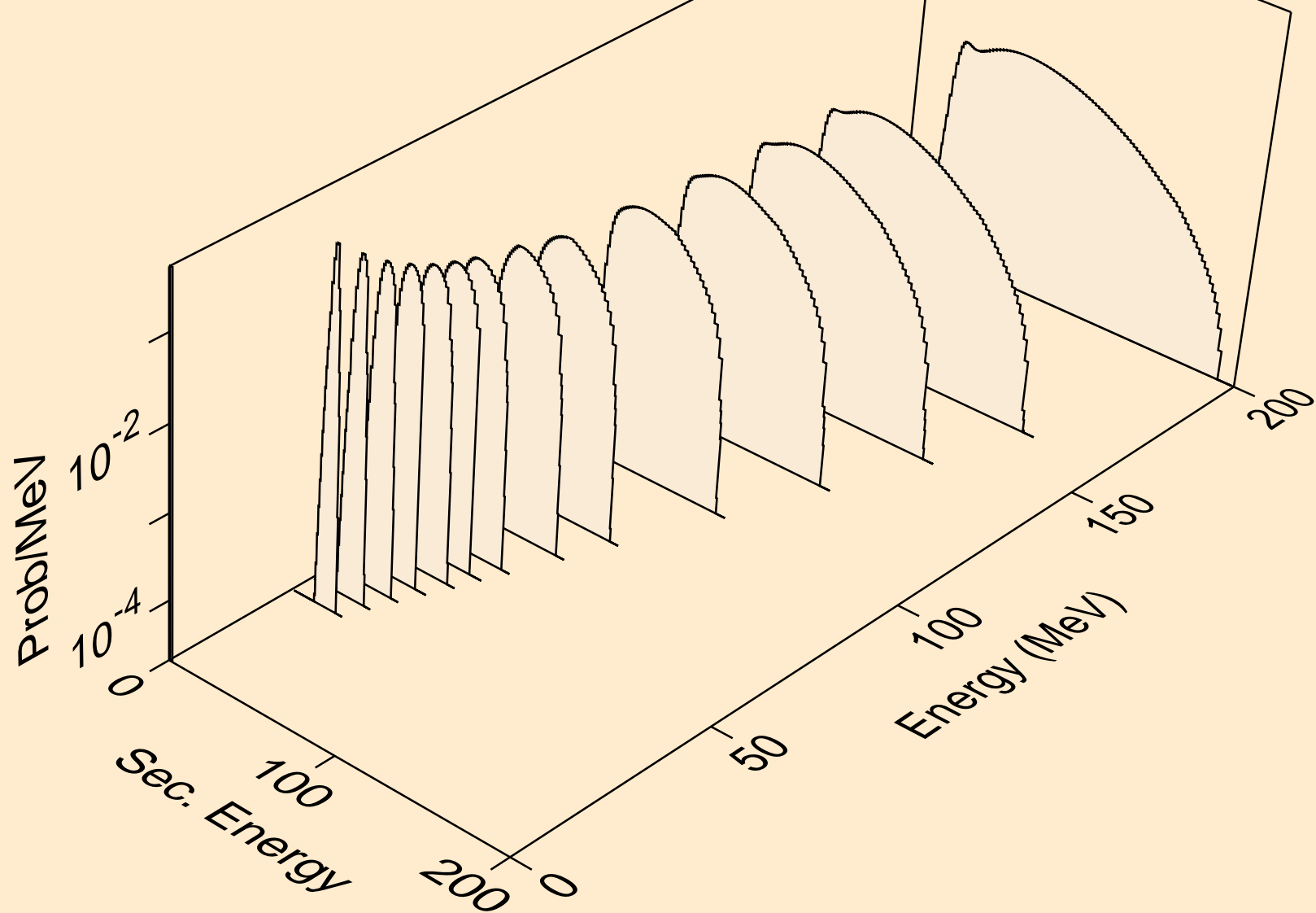
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tritons from (p,n\*)t



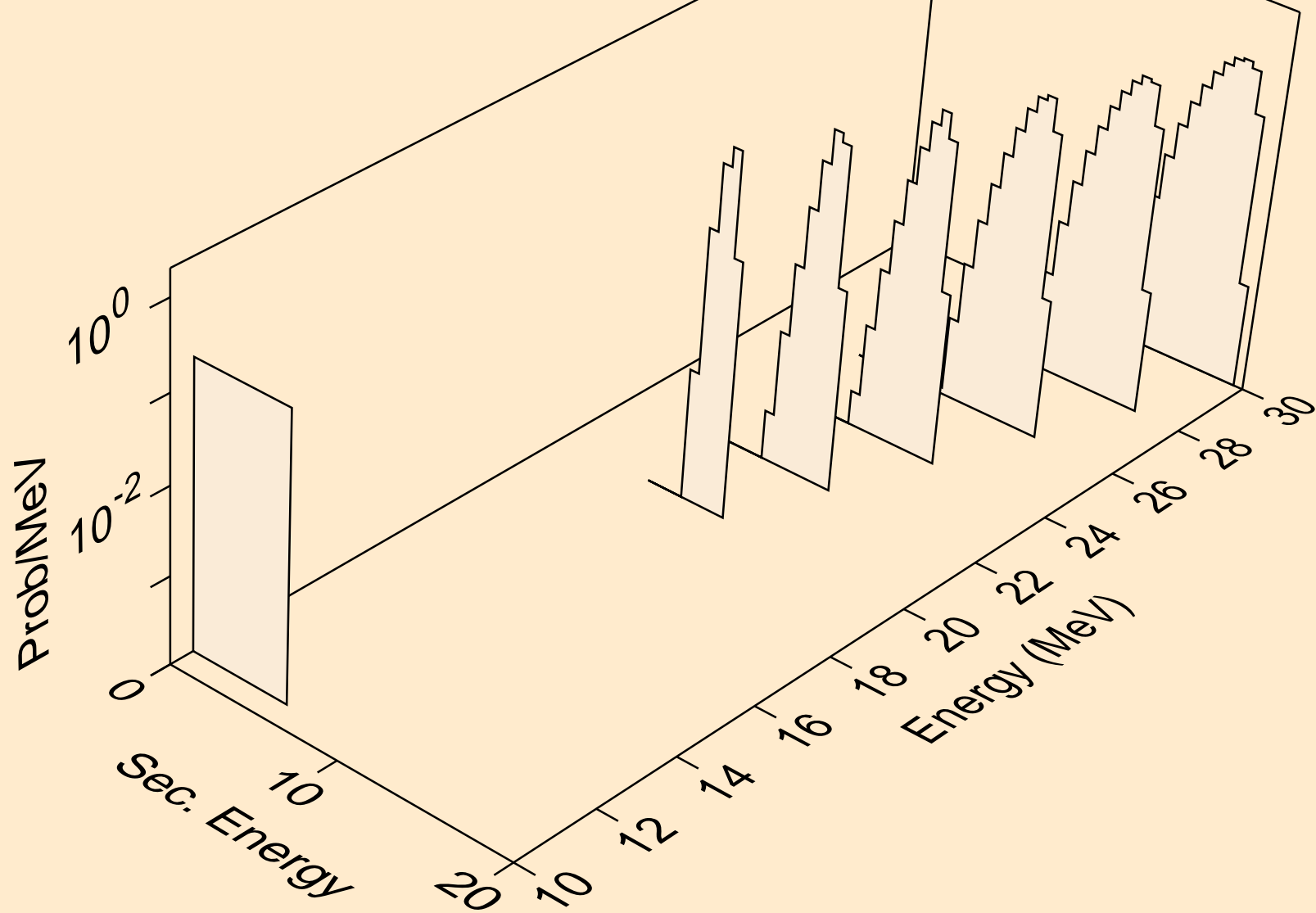
PU239 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
tritons from (p,t)



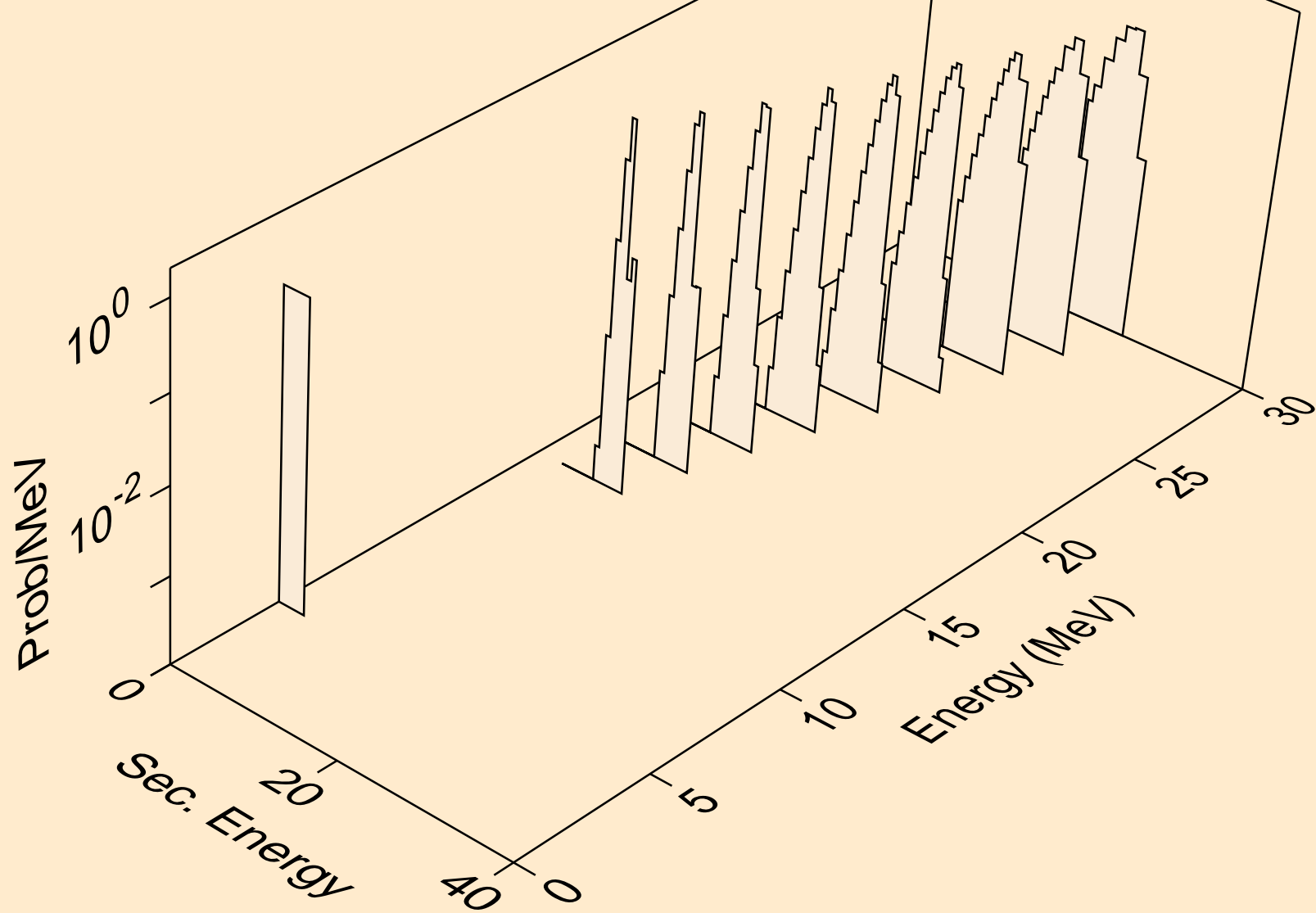
PU239 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
he3s from (p,x)



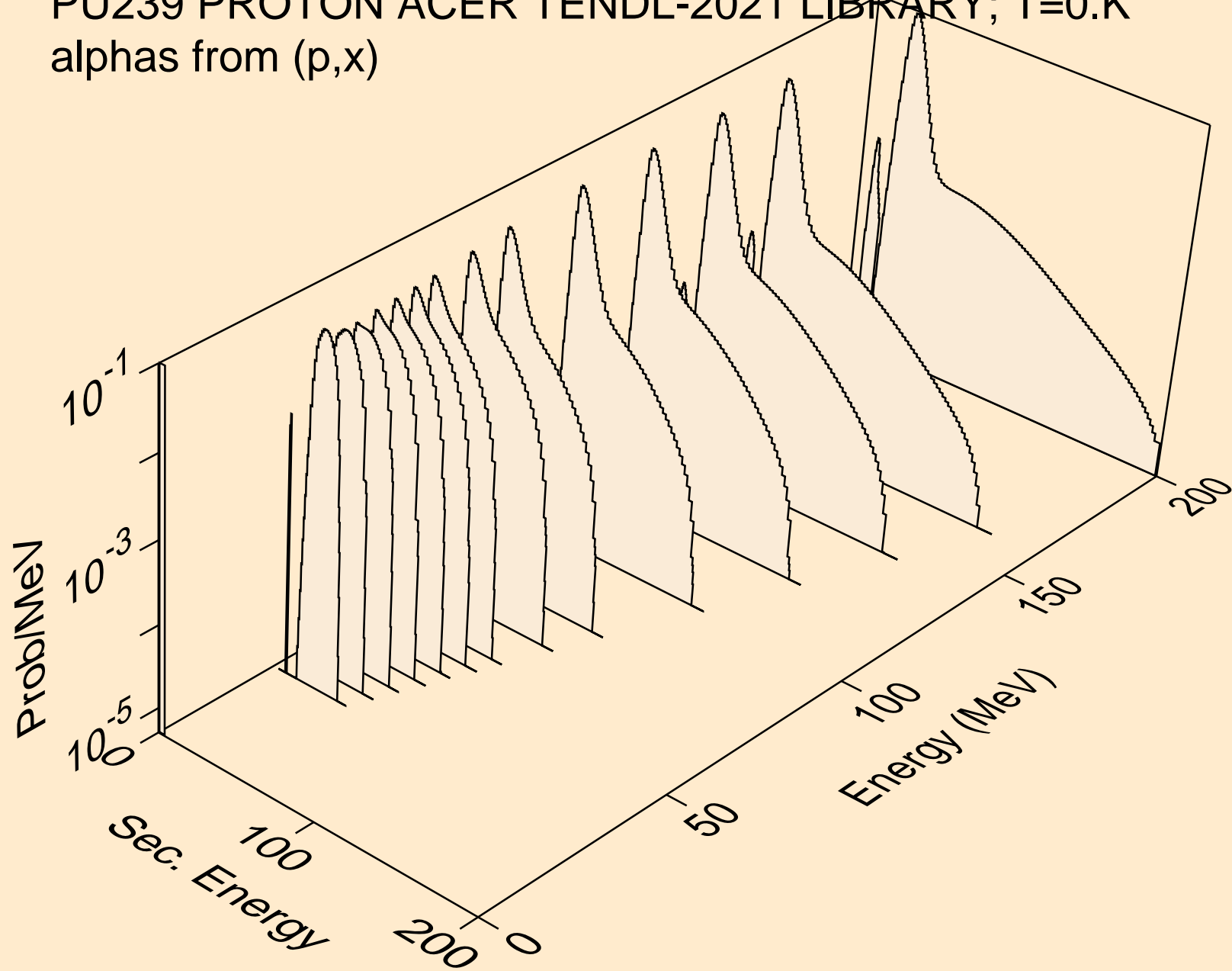
PU239 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
he3s from (p,n\*)he3



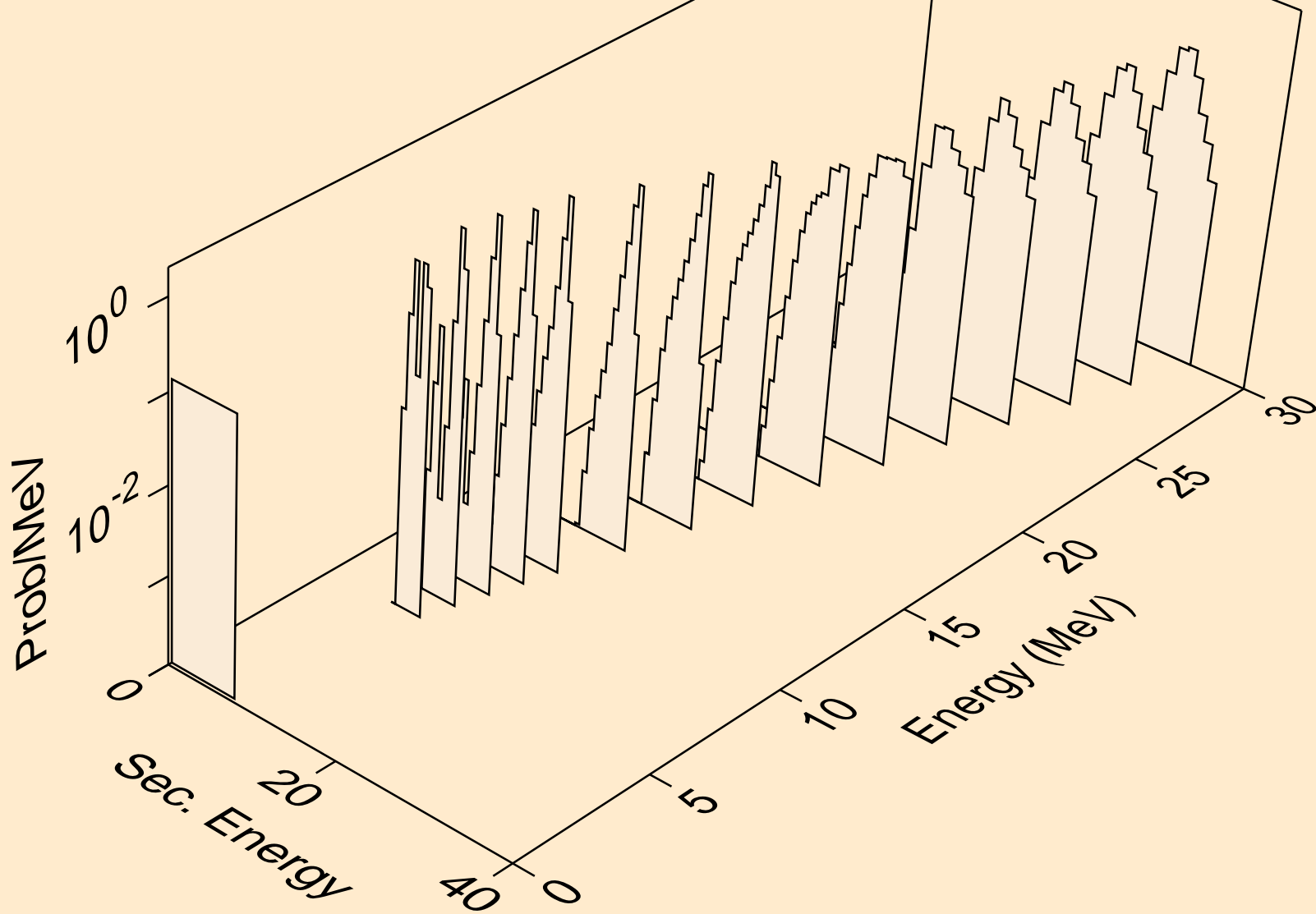
PU239 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
he3s from (p,he3)



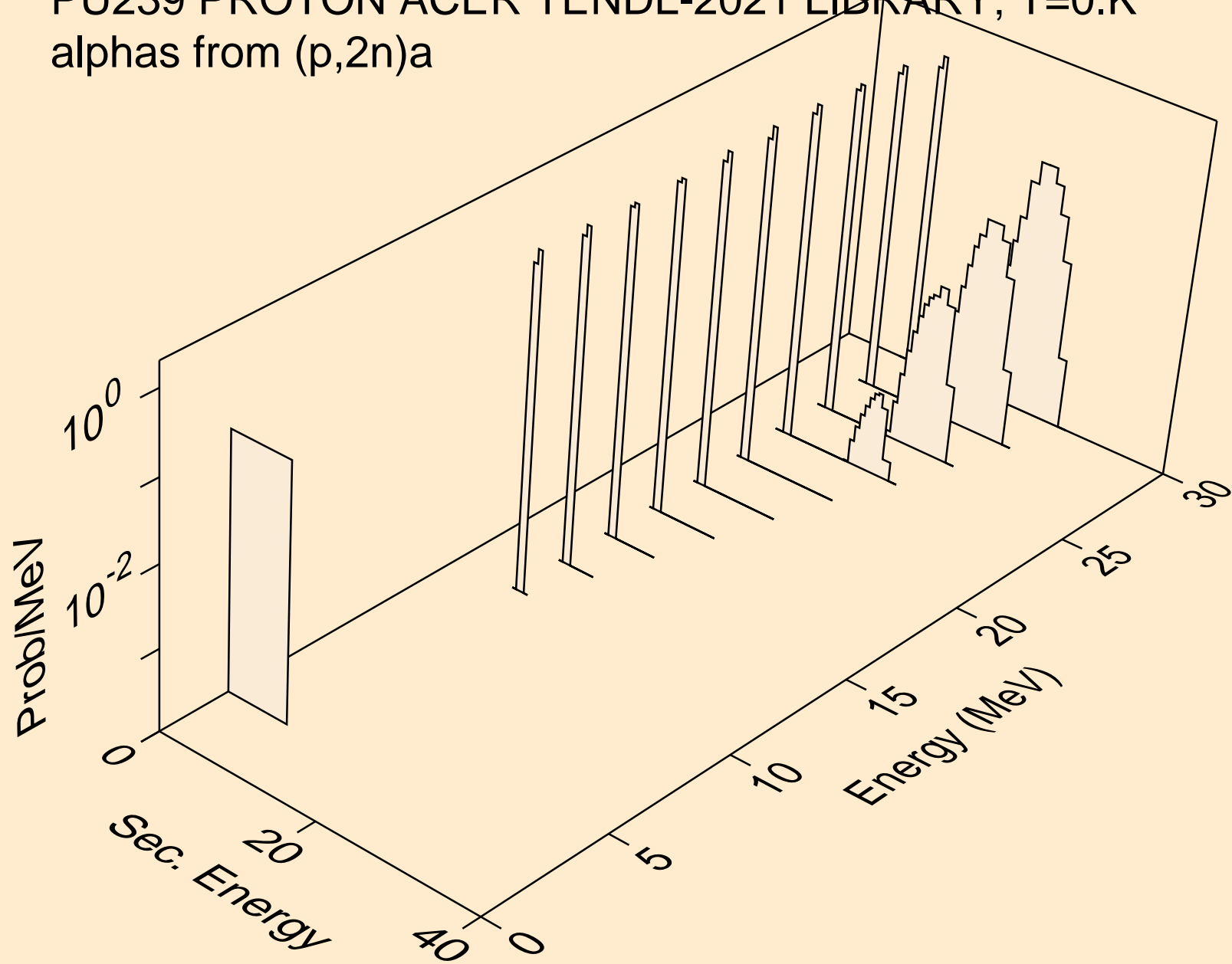
PU239 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
alphas from (p,x)



PU239 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
alphas from (p,n\*)a

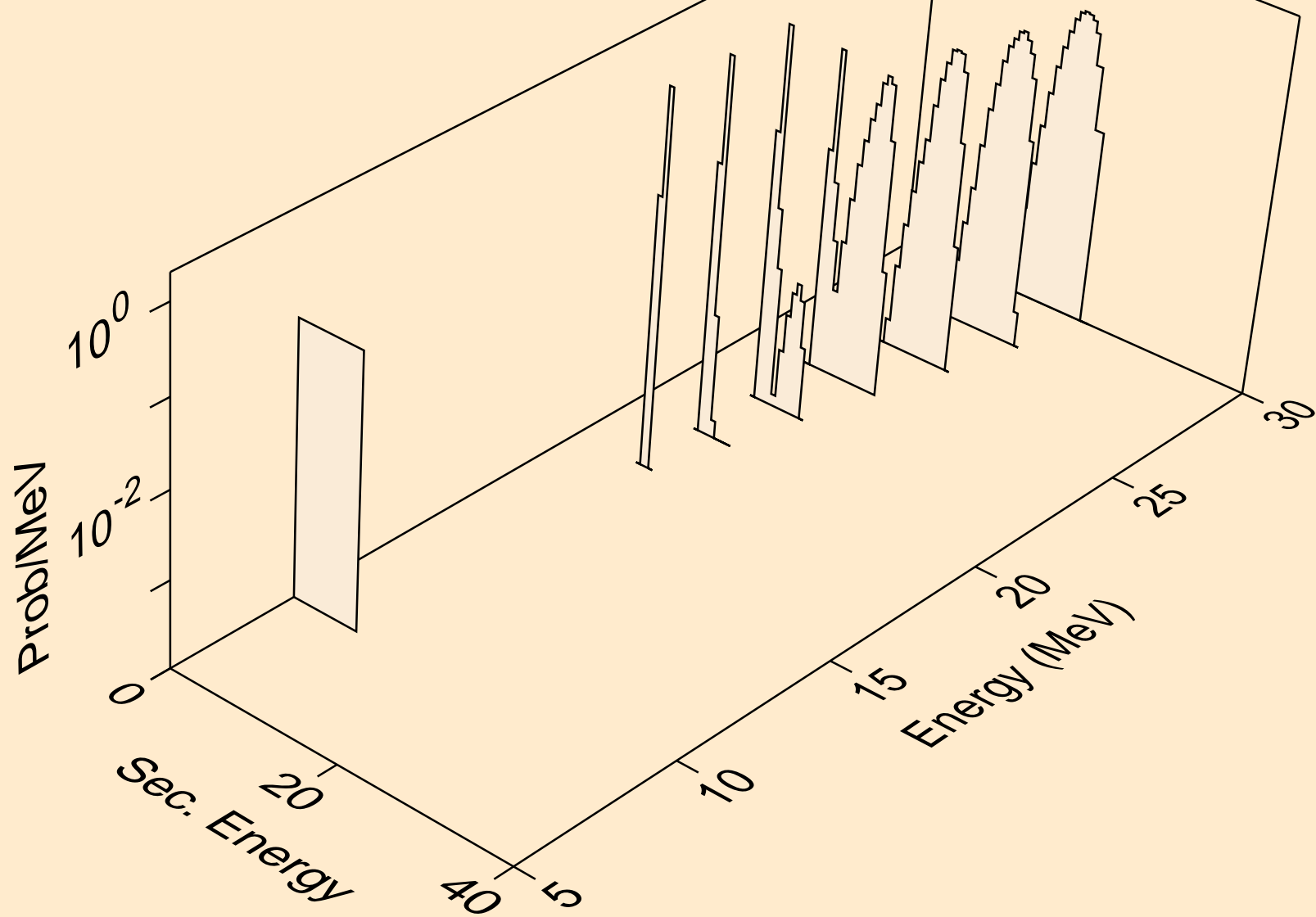


PU239 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
alphas from (p,2n)a





PU239 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
alphas from (p,3n)a



PU239 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
alphas from (p,a)

