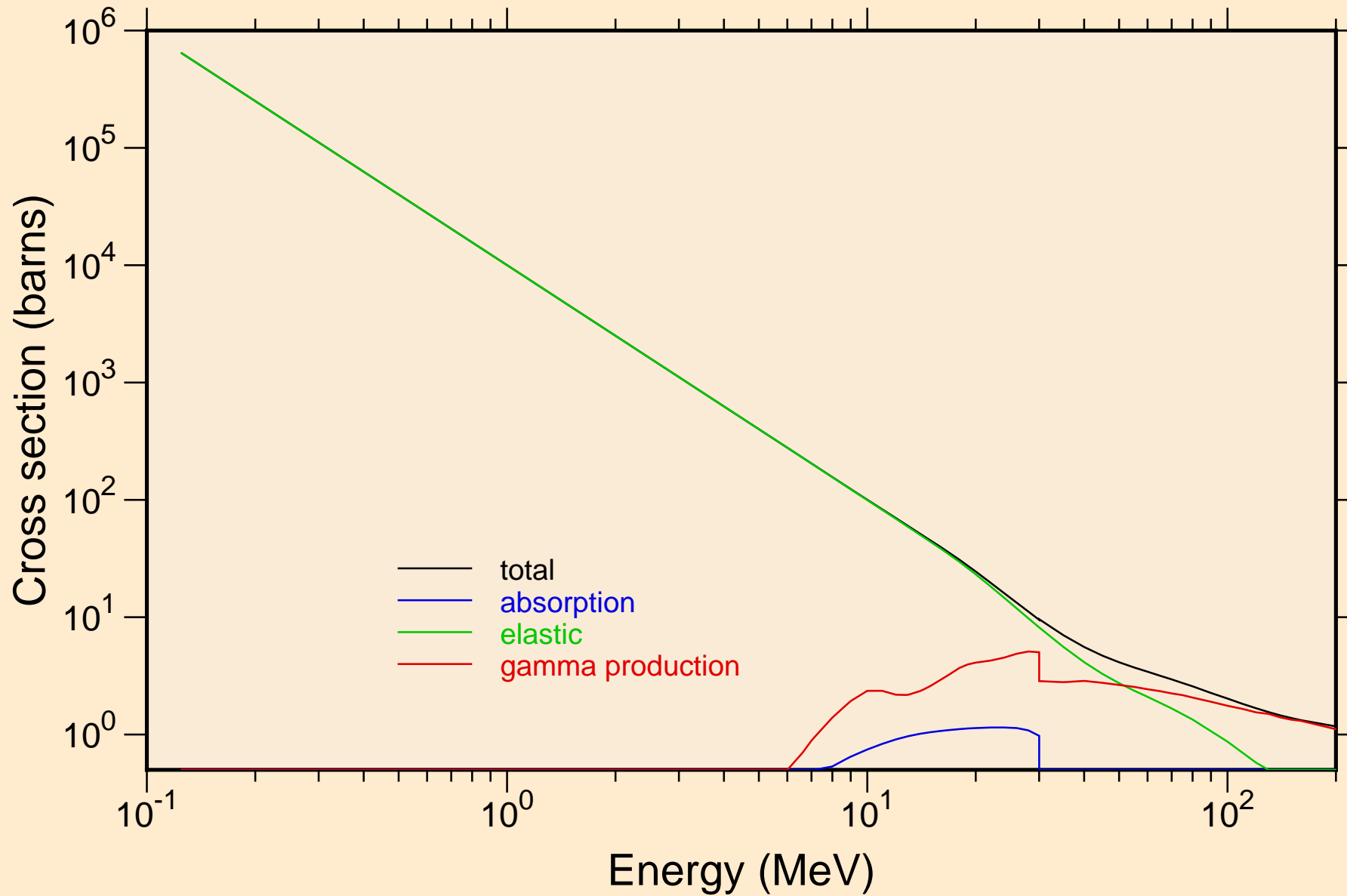
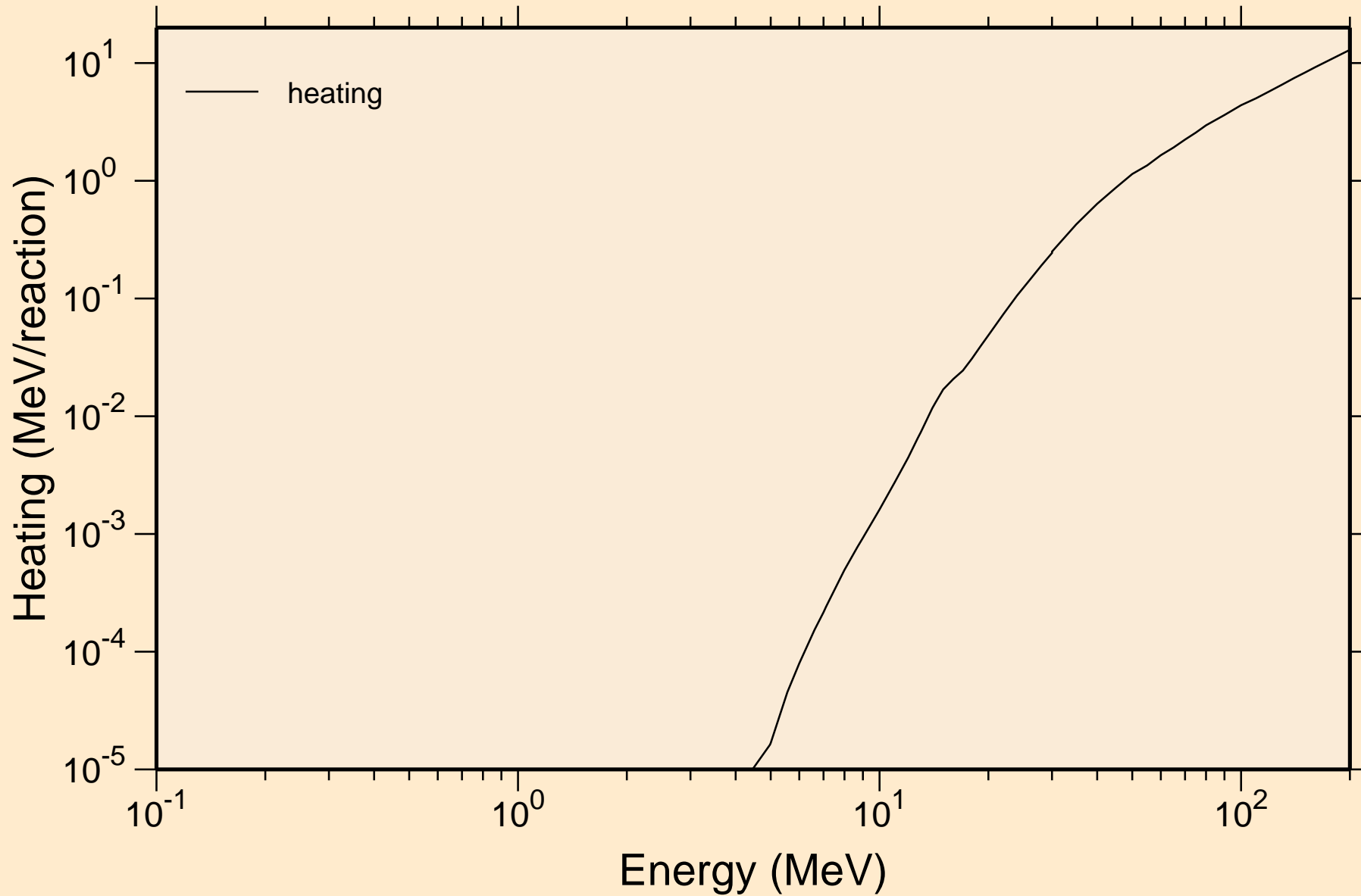


ZR099 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Principal cross sections



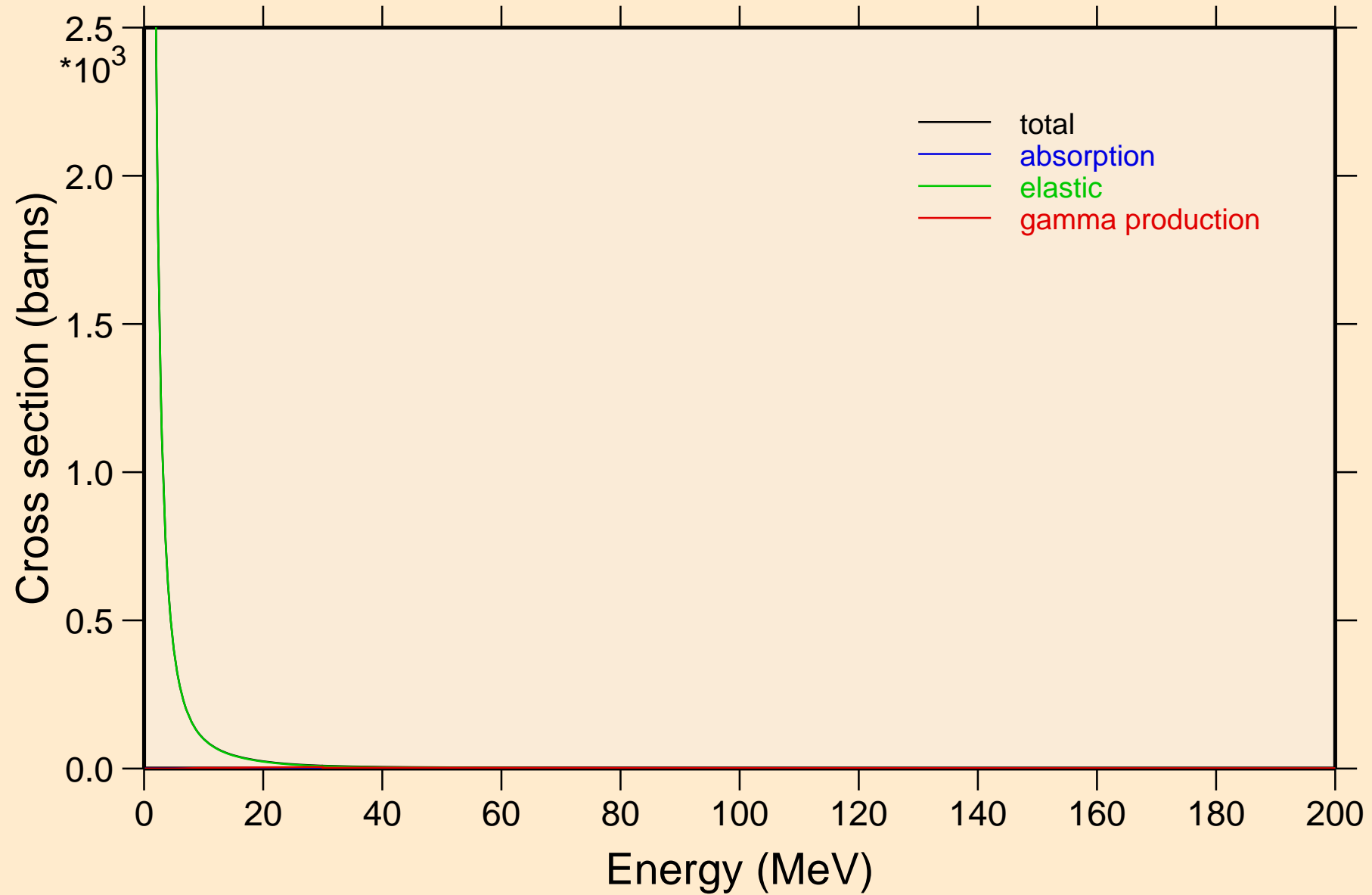
# ZR099 PROTON ACER TENDL-2023 LIBRARY; T=0.K

## Heating



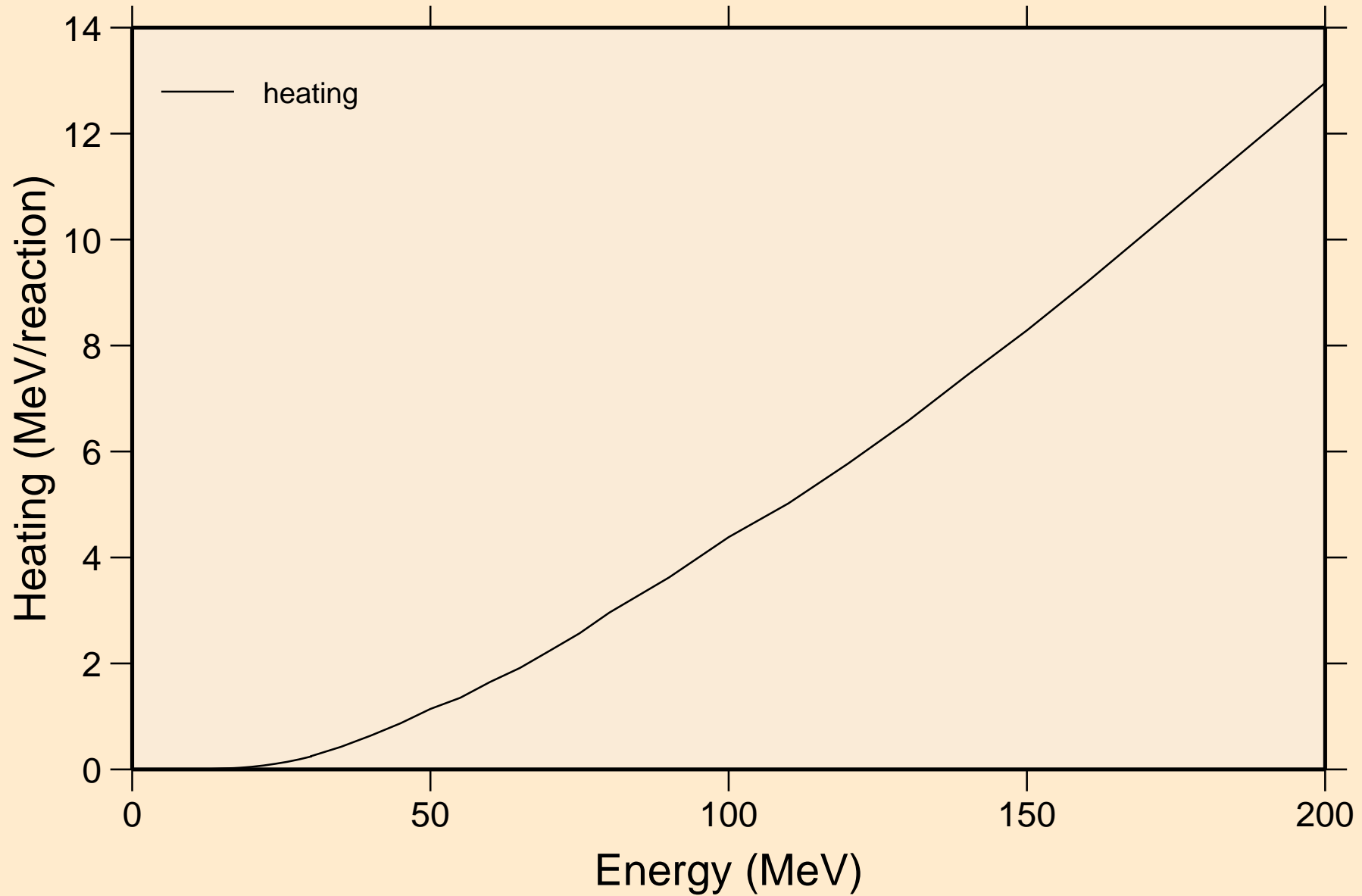
# ZR099 PROTON ACER TENDL-2023 LIBRARY; T=0.K

## Principal cross sections



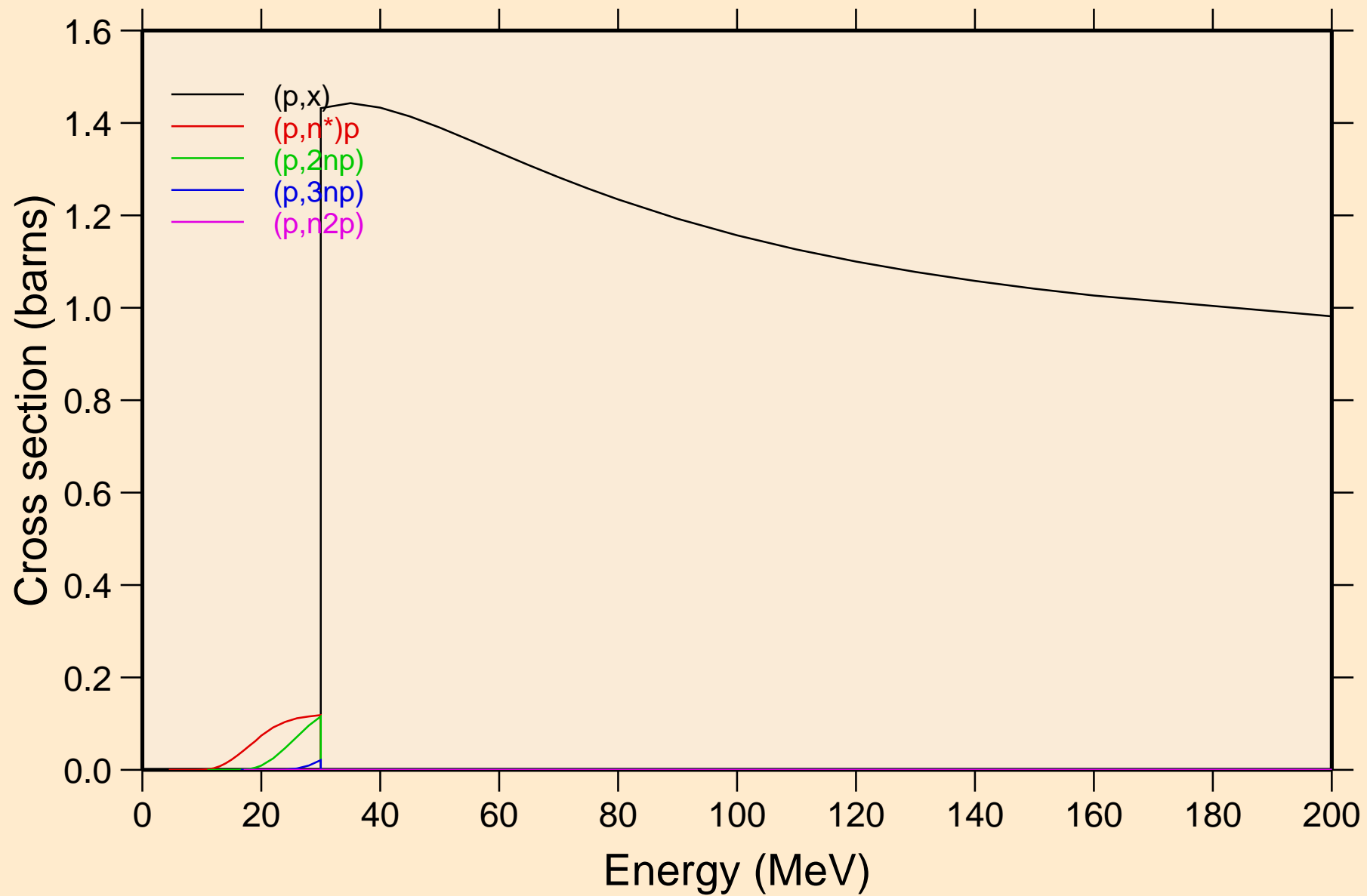
ZR099 PROTON ACER TENDL-2023 LIBRARY; T=0.K

Heating

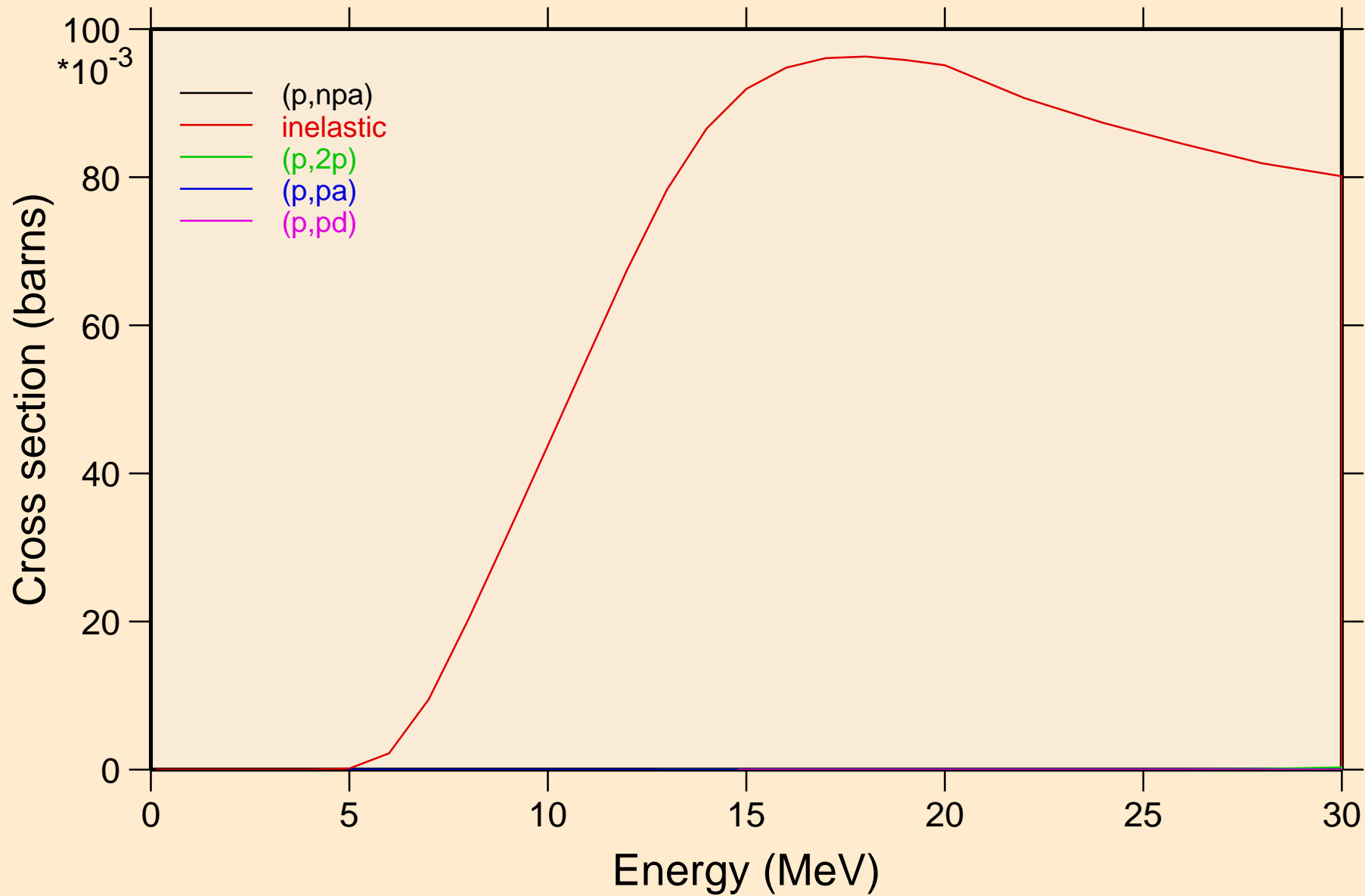


# ZR099 PROTON ACER TENDL-2023 LIBRARY; T=0.K

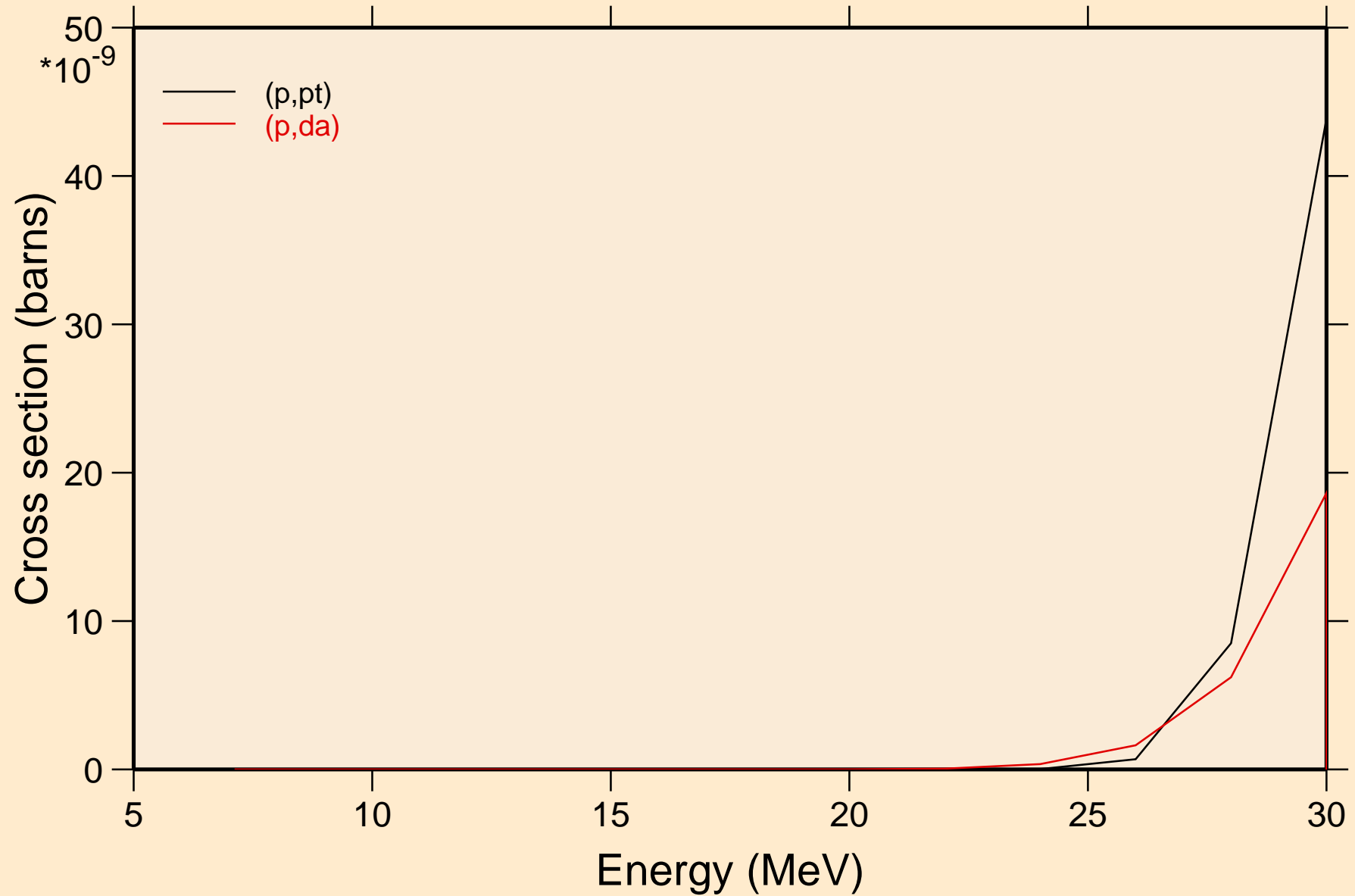
## Threshold reactions



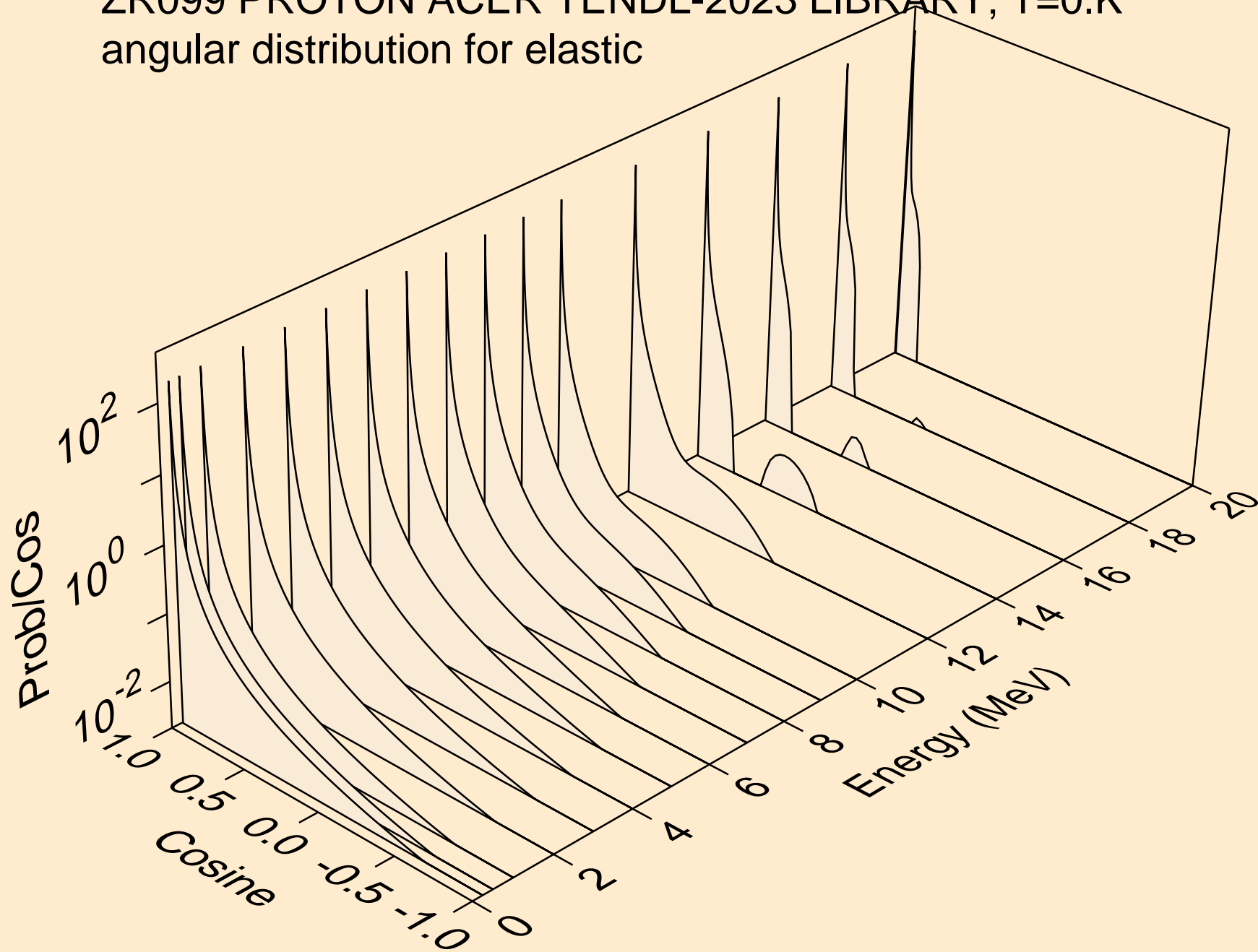
ZR099 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Threshold reactions



ZR099 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Threshold reactions

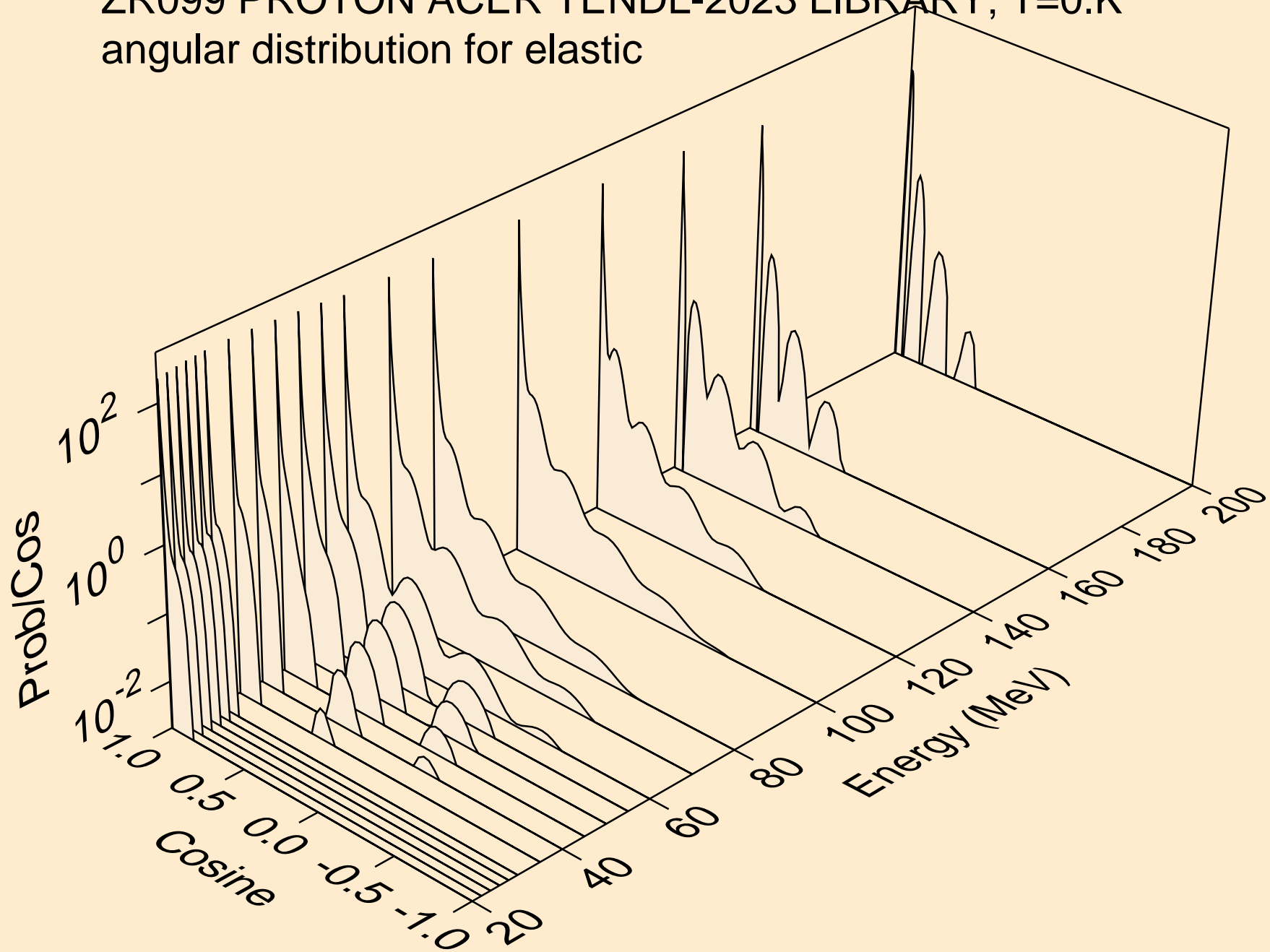


ZR099 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for elastic

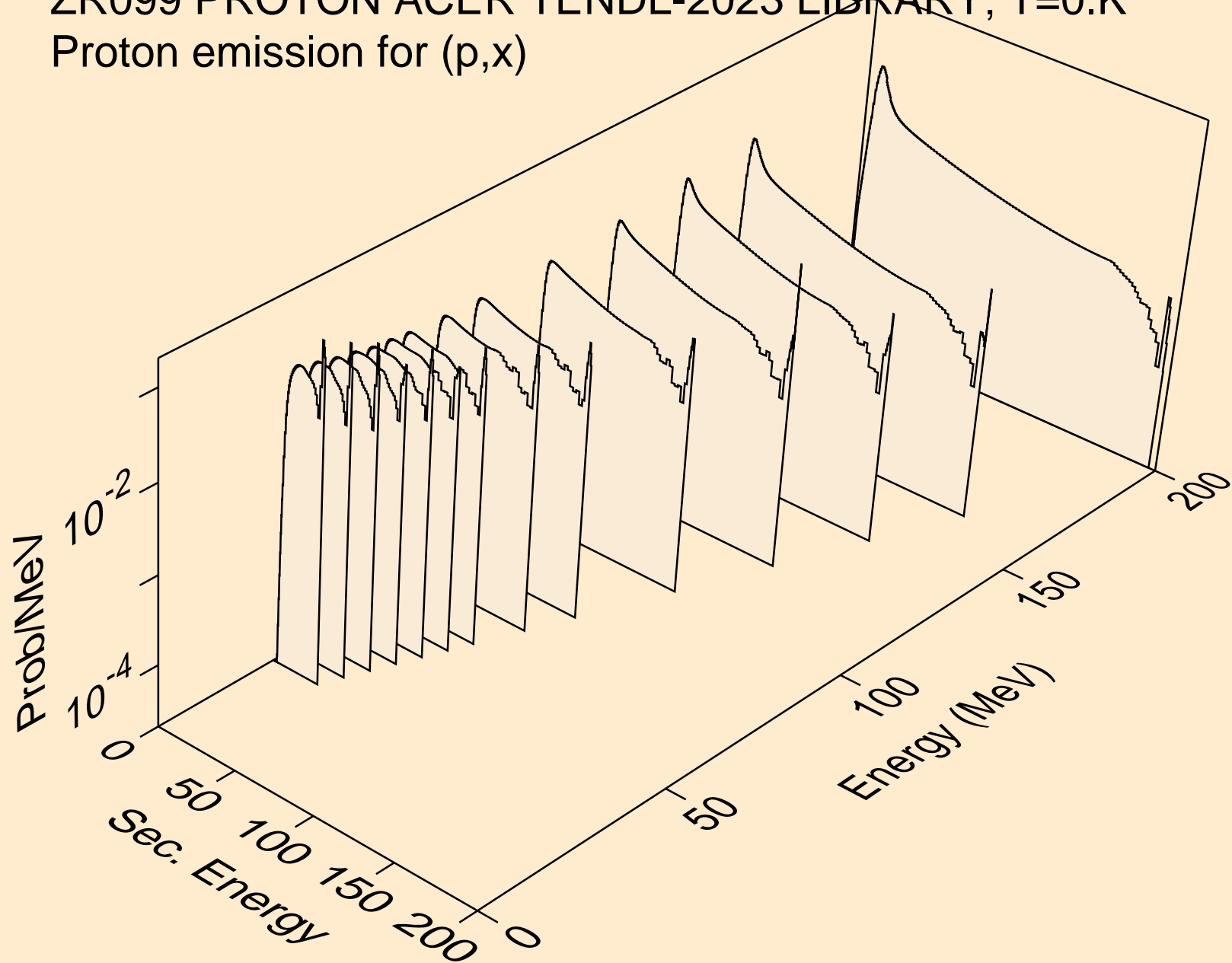




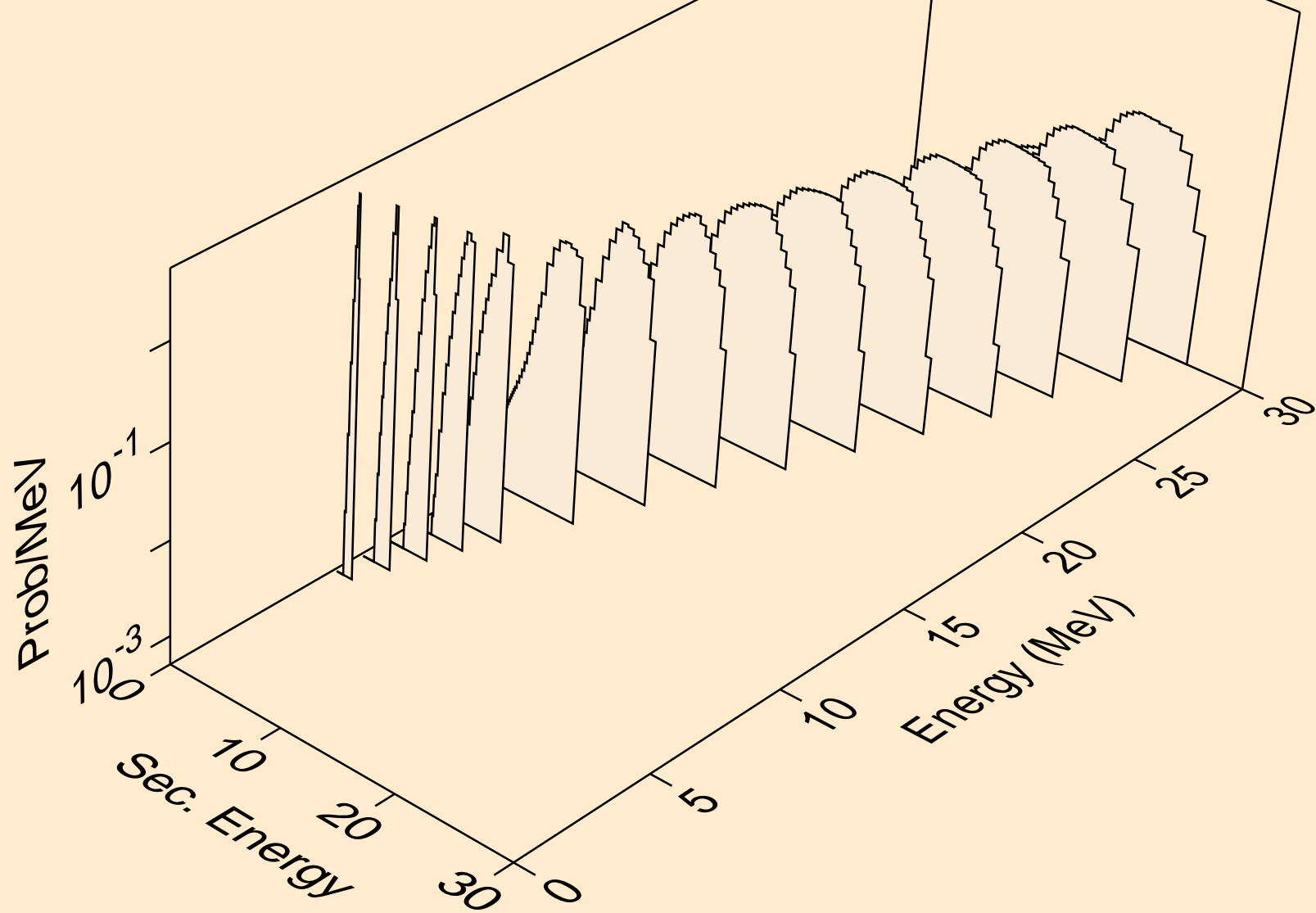
ZR099 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for elastic



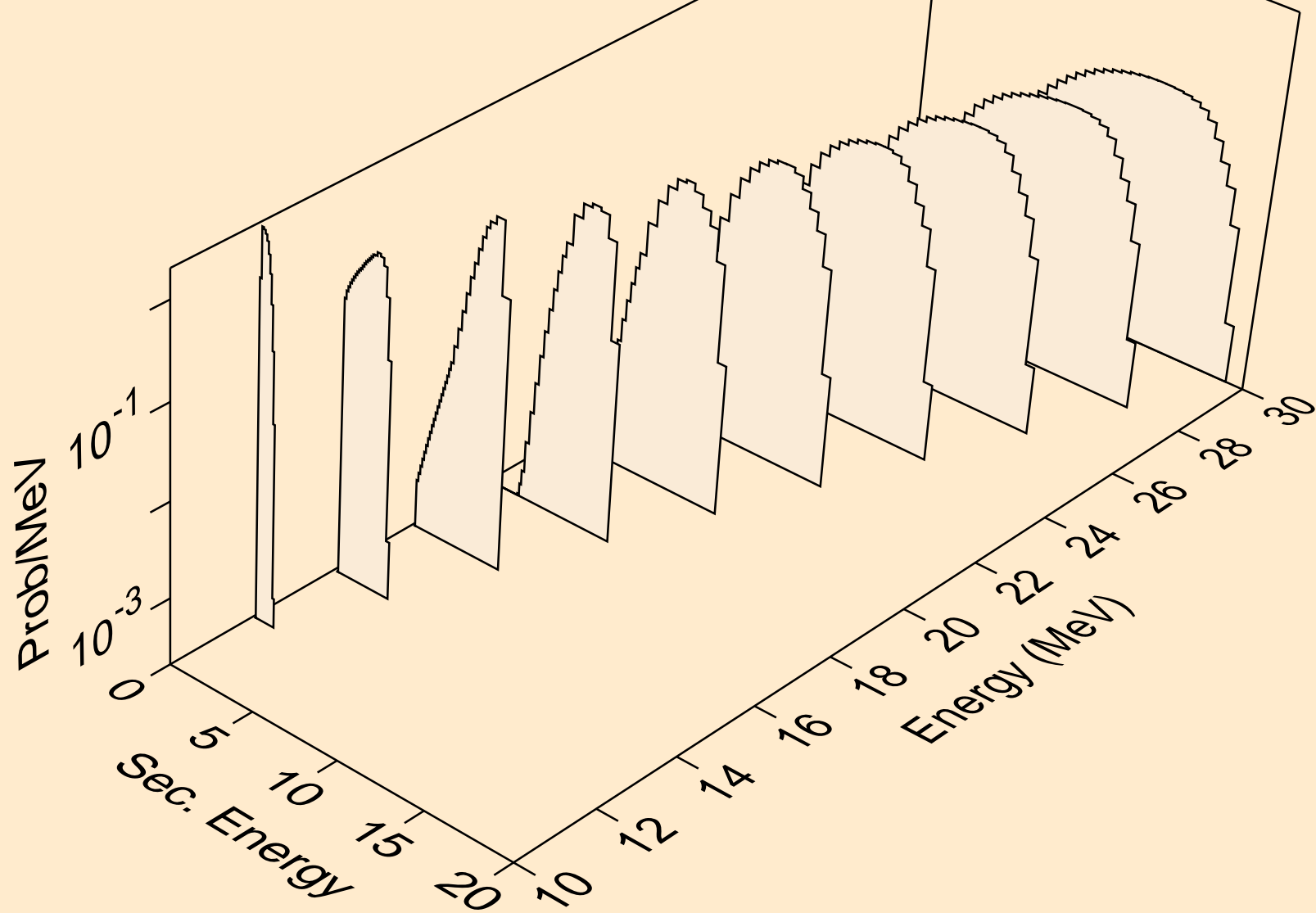
ZR099 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Proton emission for (p,x)



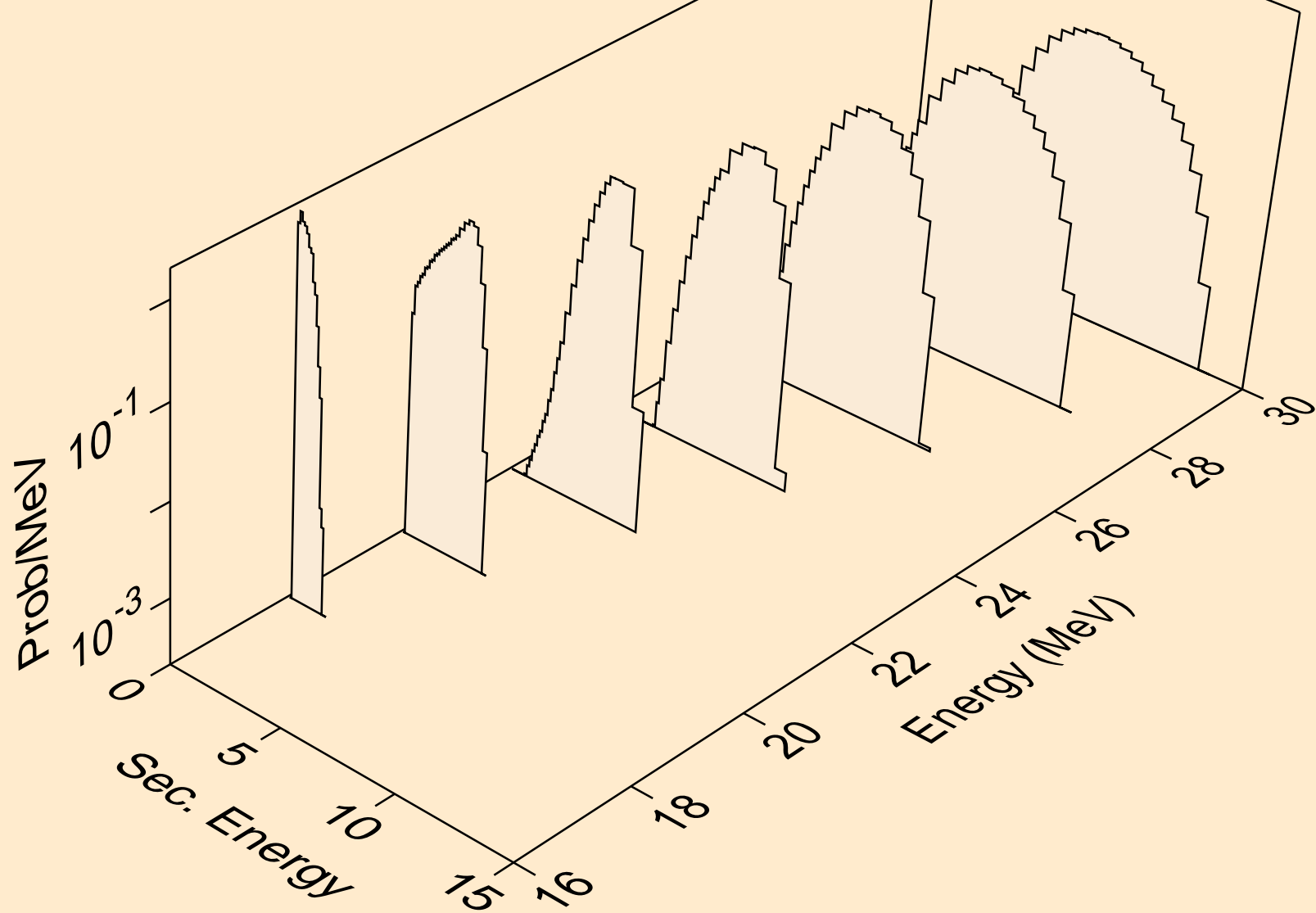
ZR099 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Proton emission for (p,n\*)p



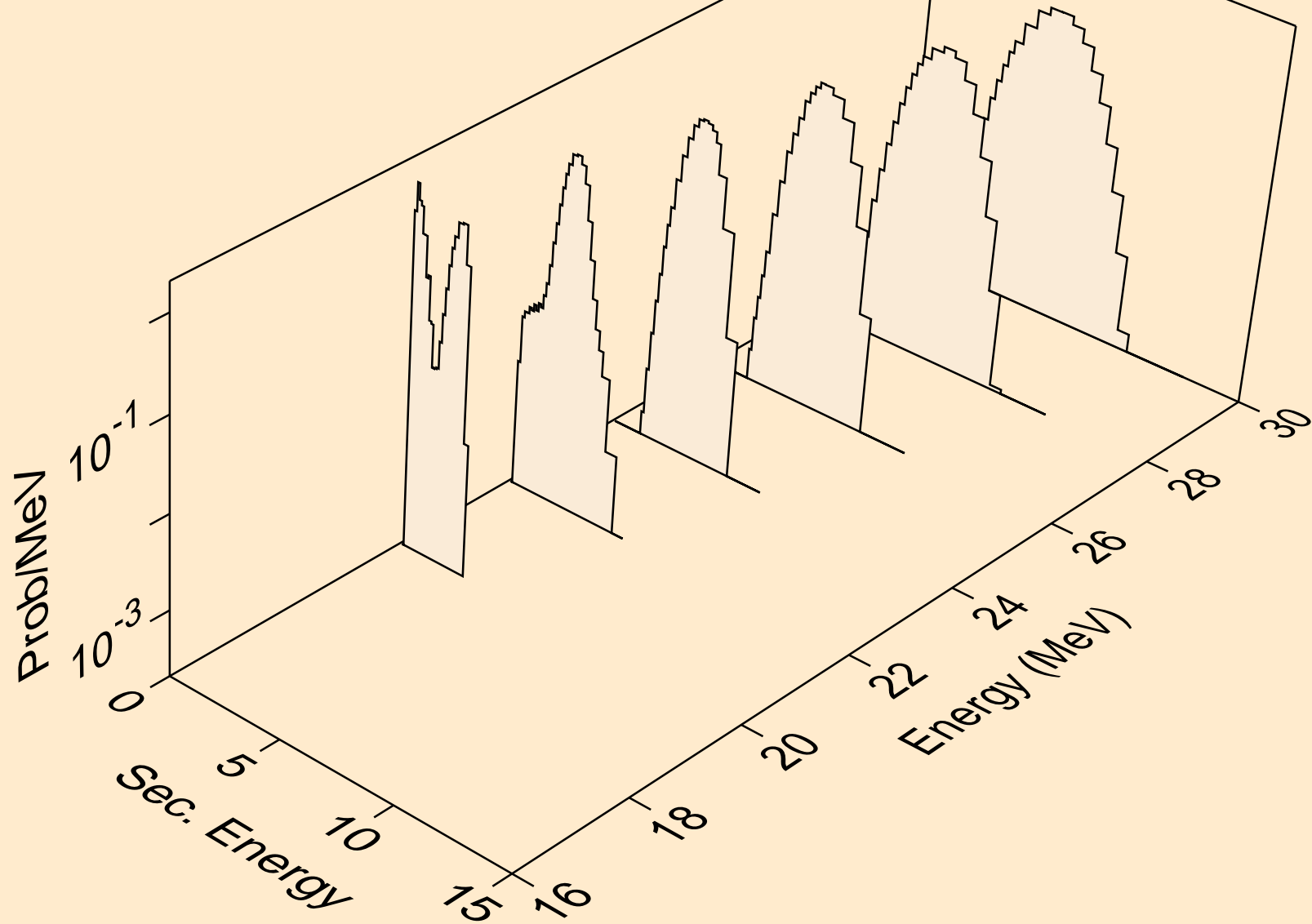
ZR099 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Proton emission for (p,2np)



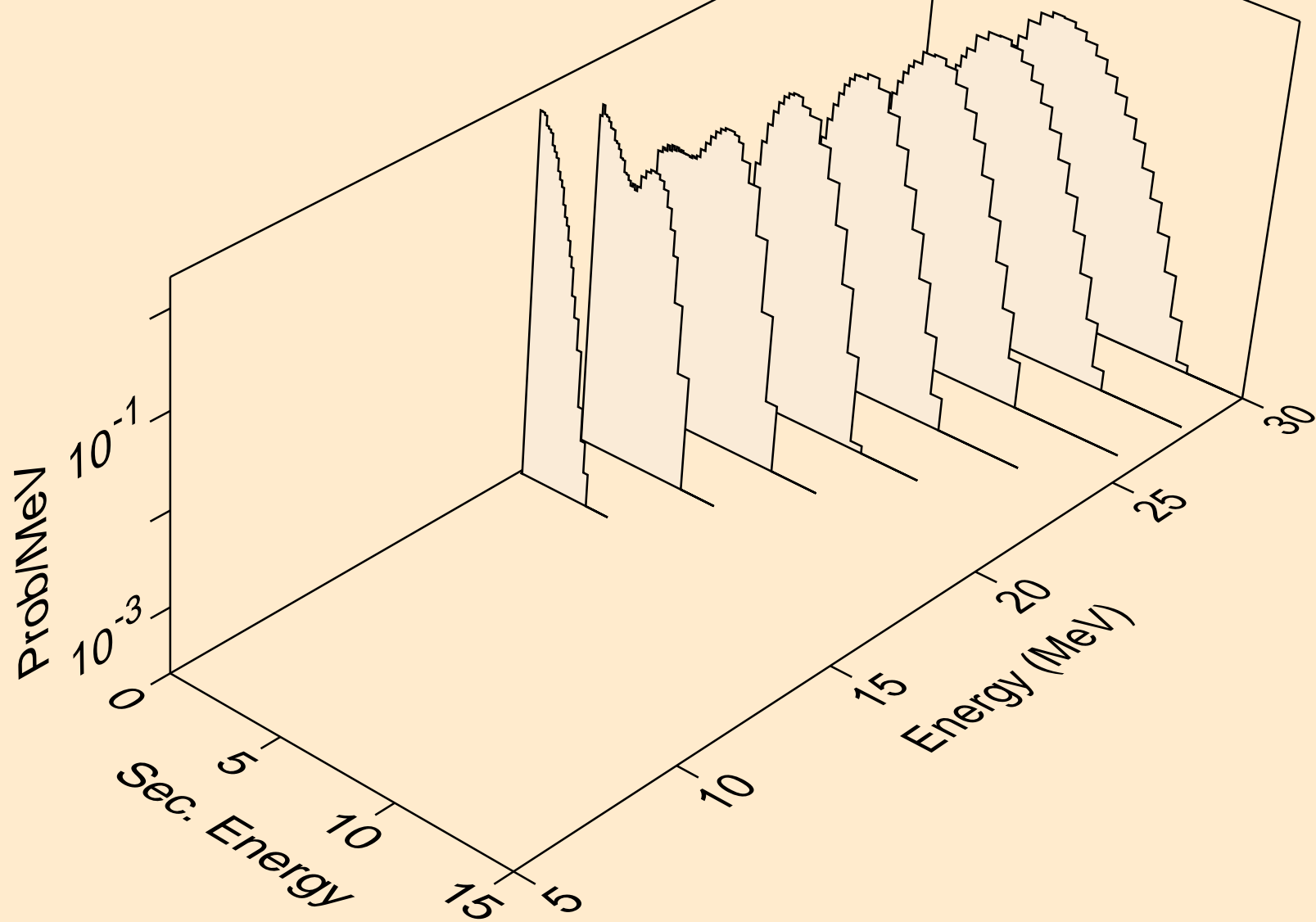
ZR099 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Proton emission for (p,3np)



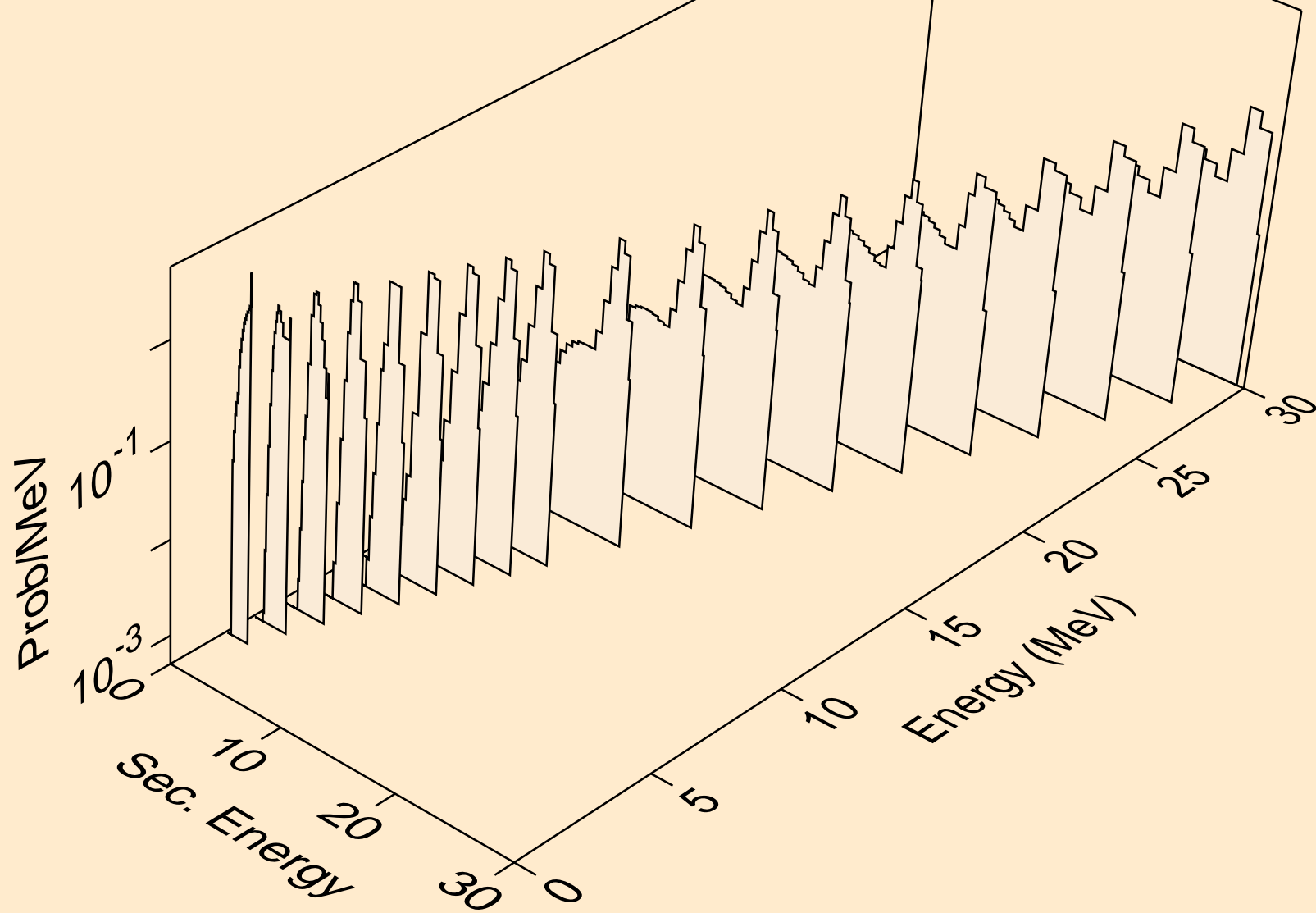
ZR099 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Proton emission for (p,n2p)



ZR099 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Proton emission for (p,npa)

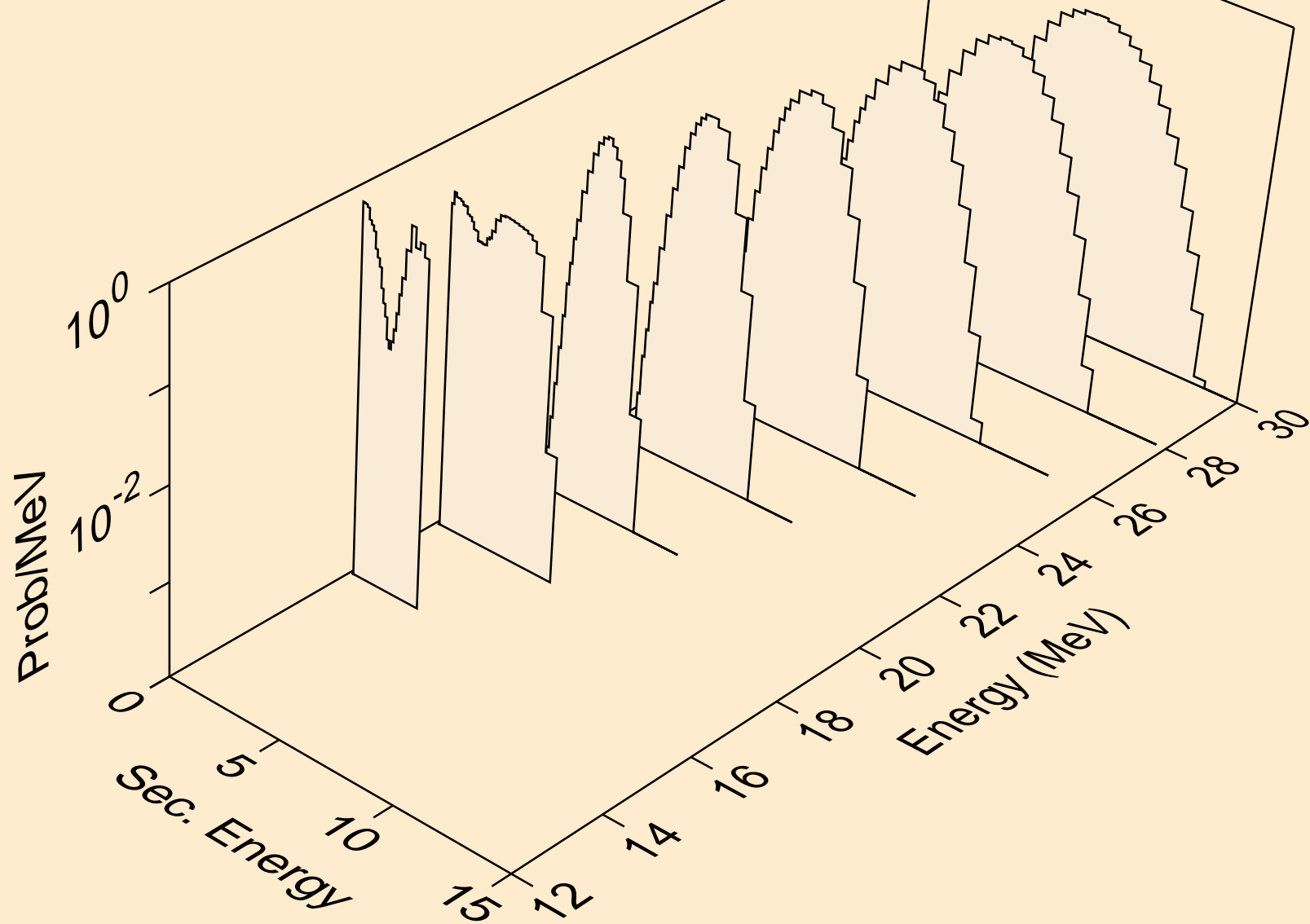


ZR099 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Proton emission for inelastic

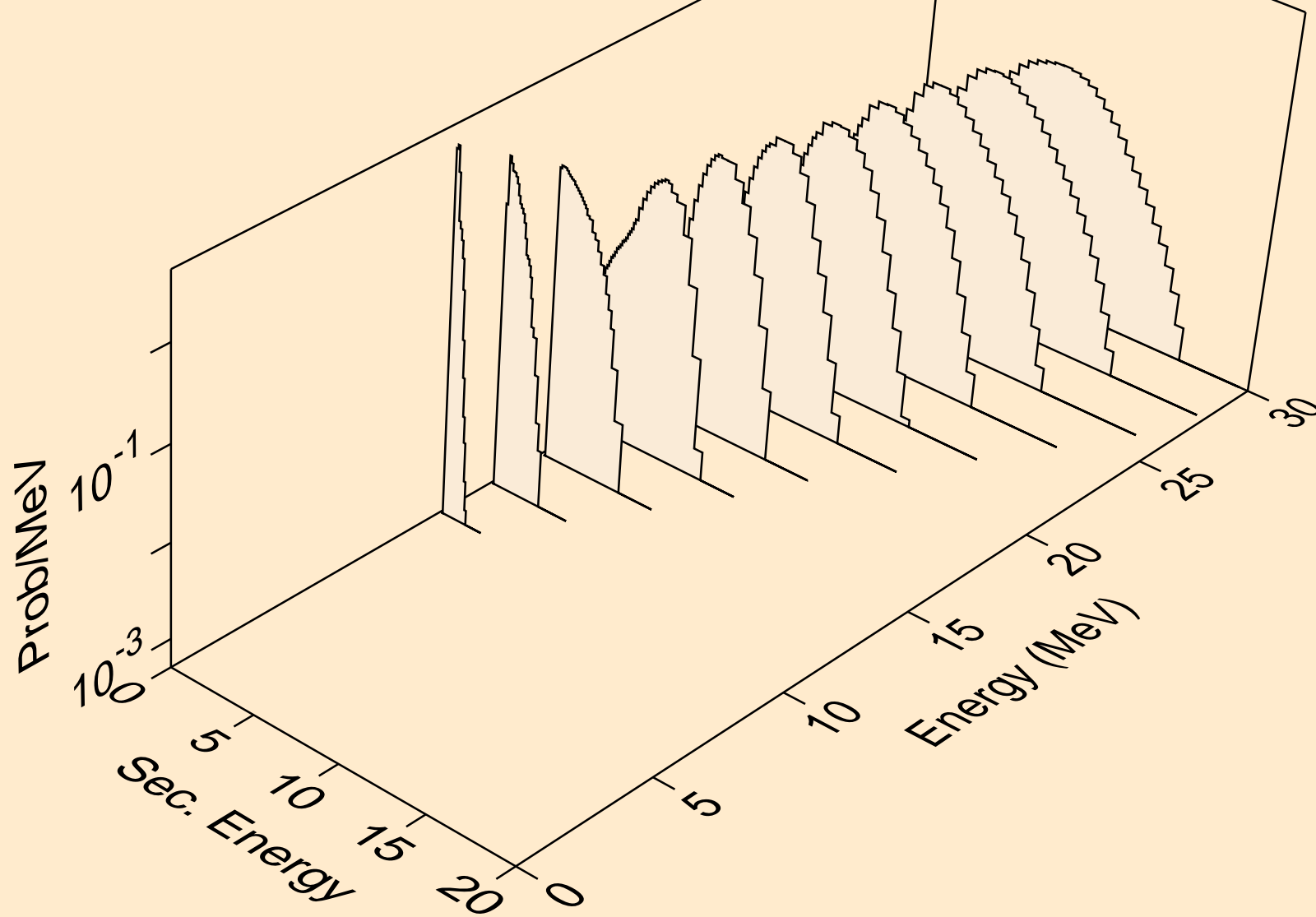




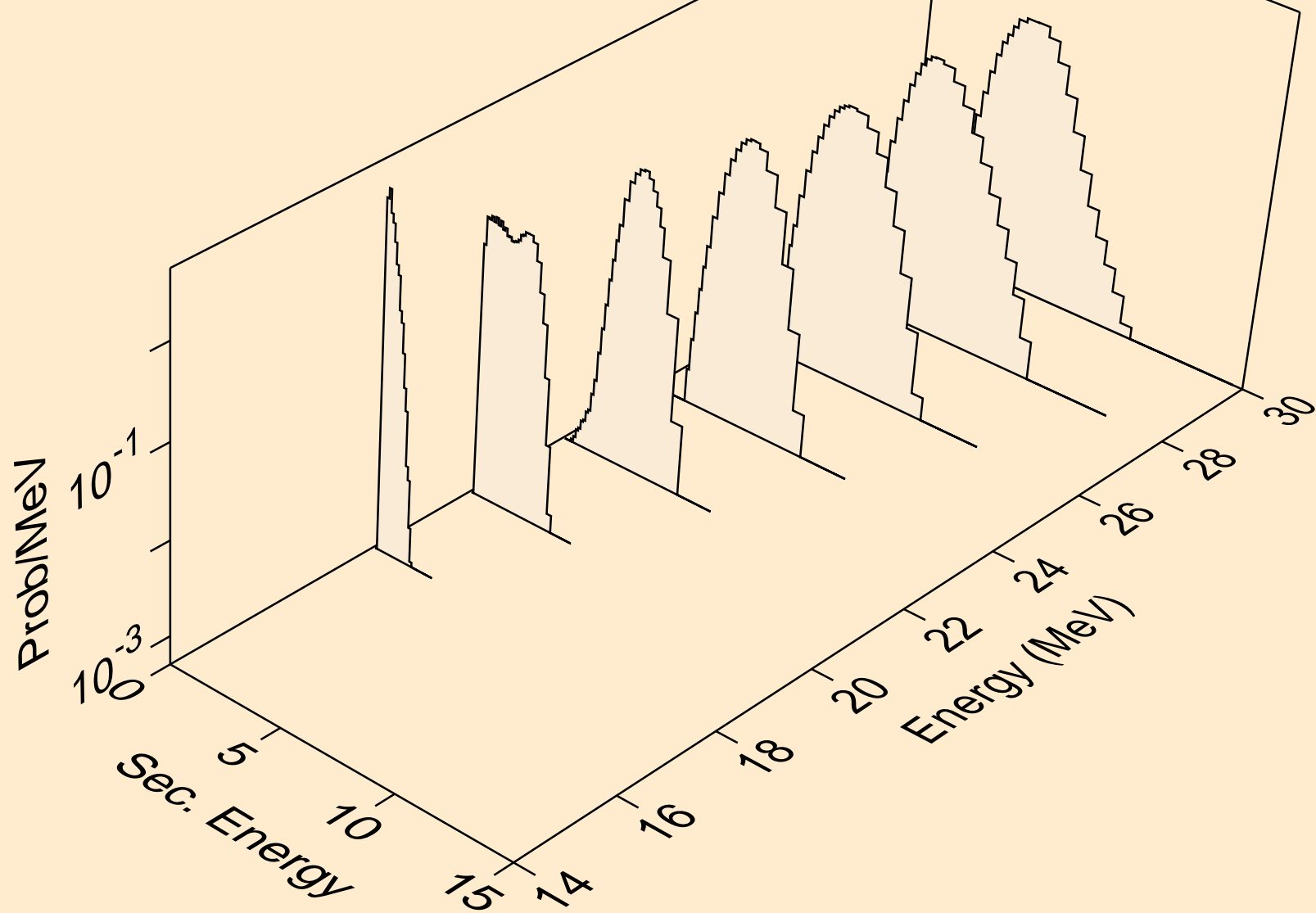
ZR099 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Proton emission for (p,2p)



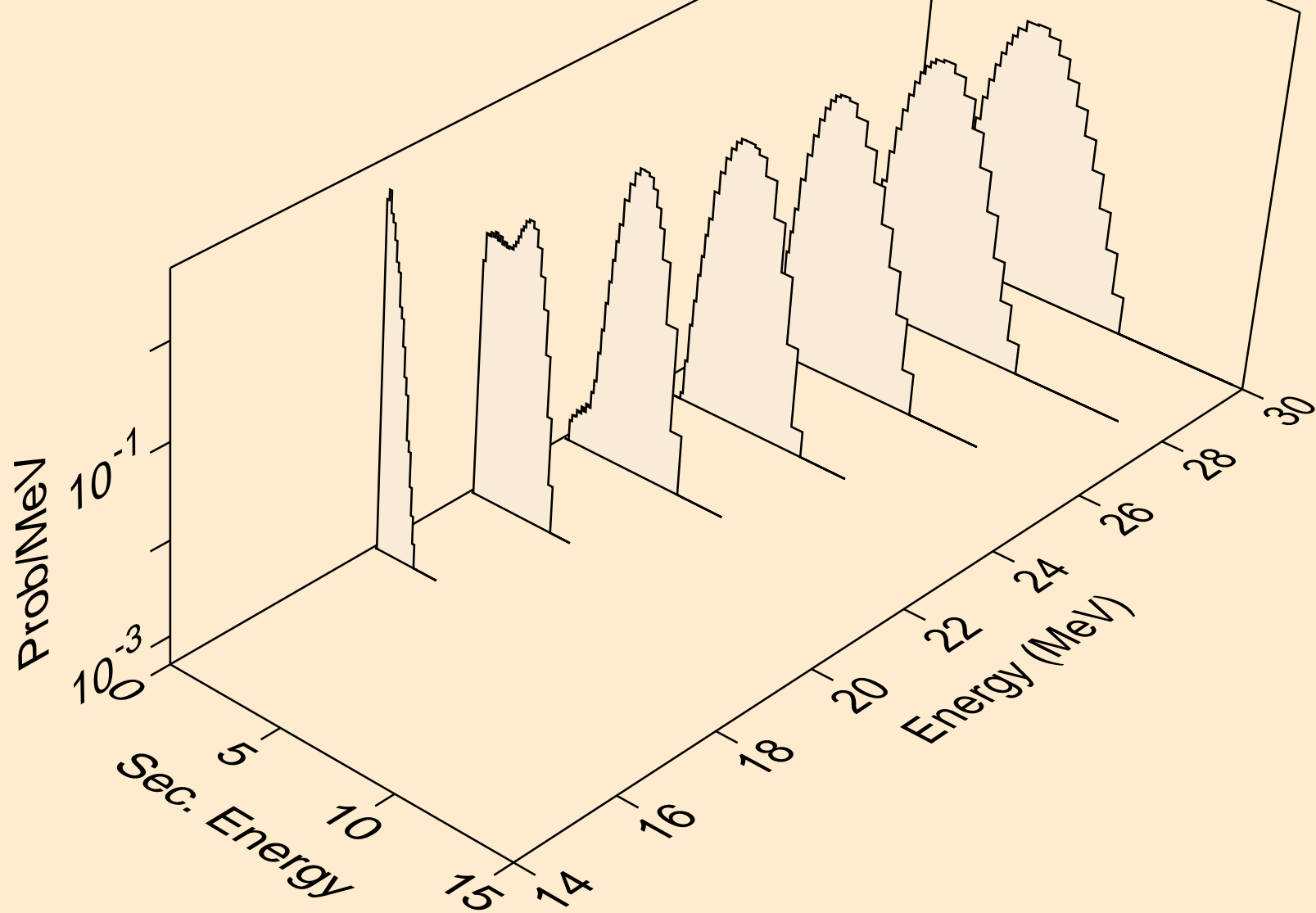
ZR099 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Proton emission for (p,pa)



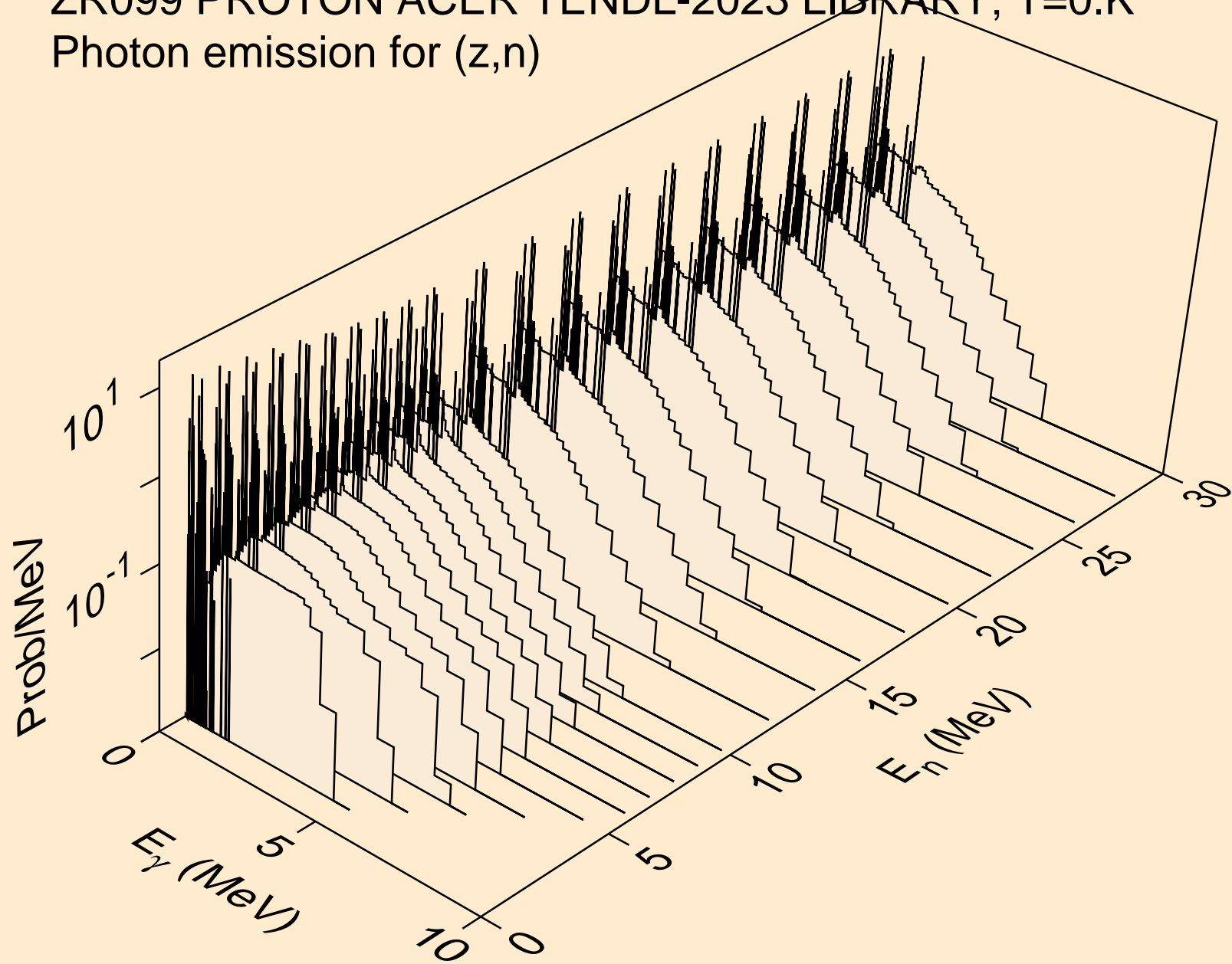
ZR099 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Proton emission for (p,pd)



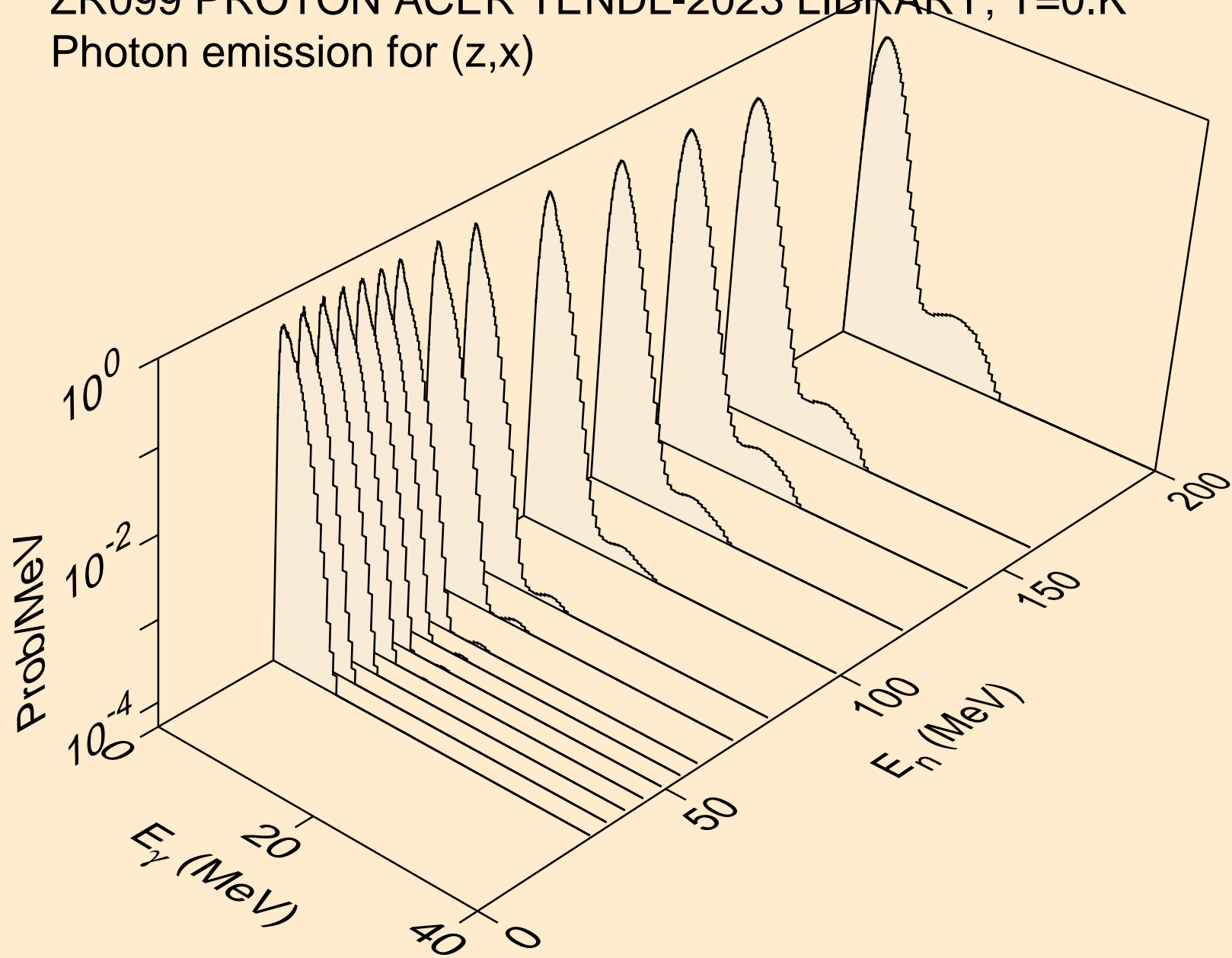
ZR099 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Proton emission for (p,pt)



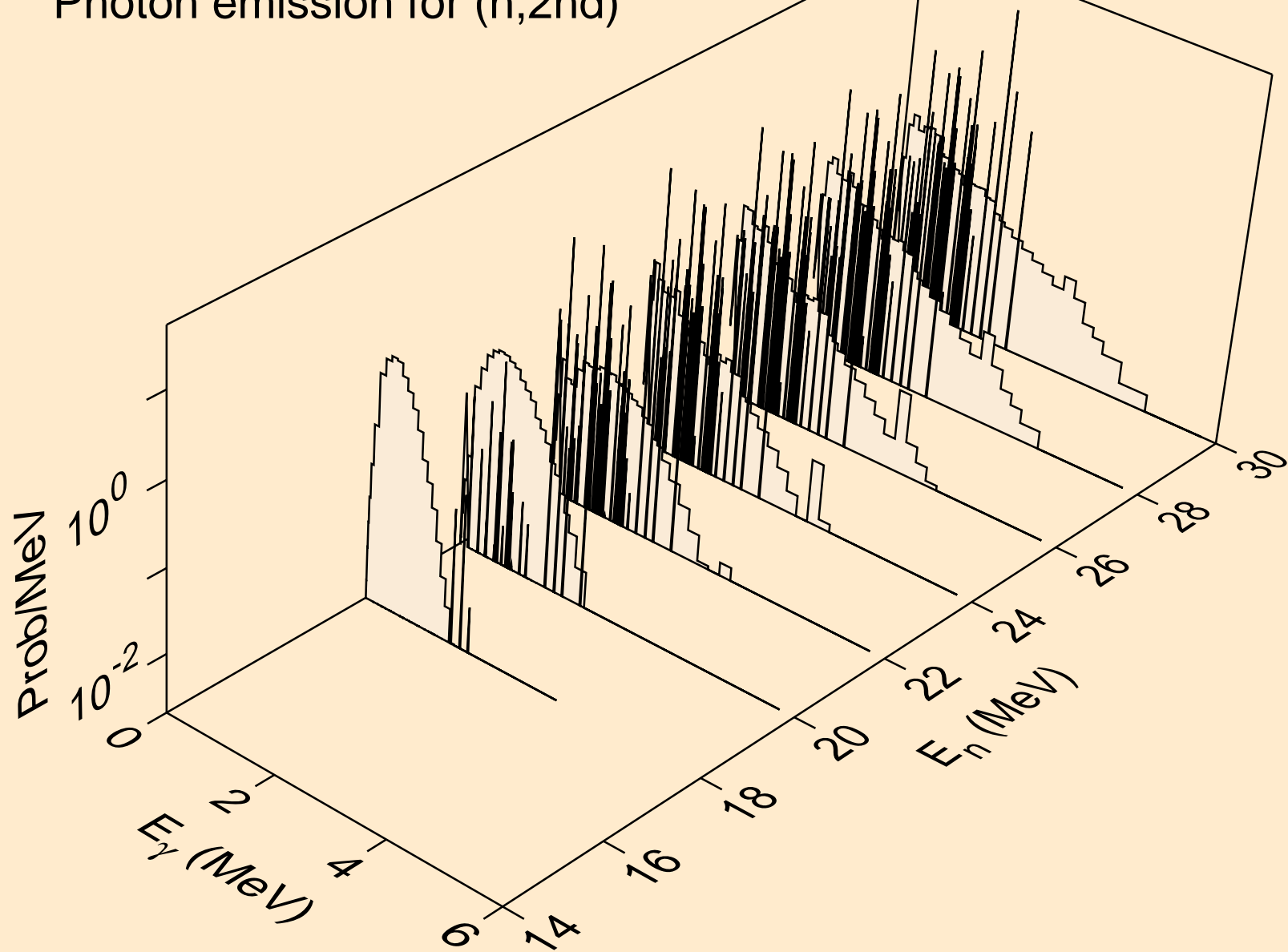
ZR099 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (z,n)



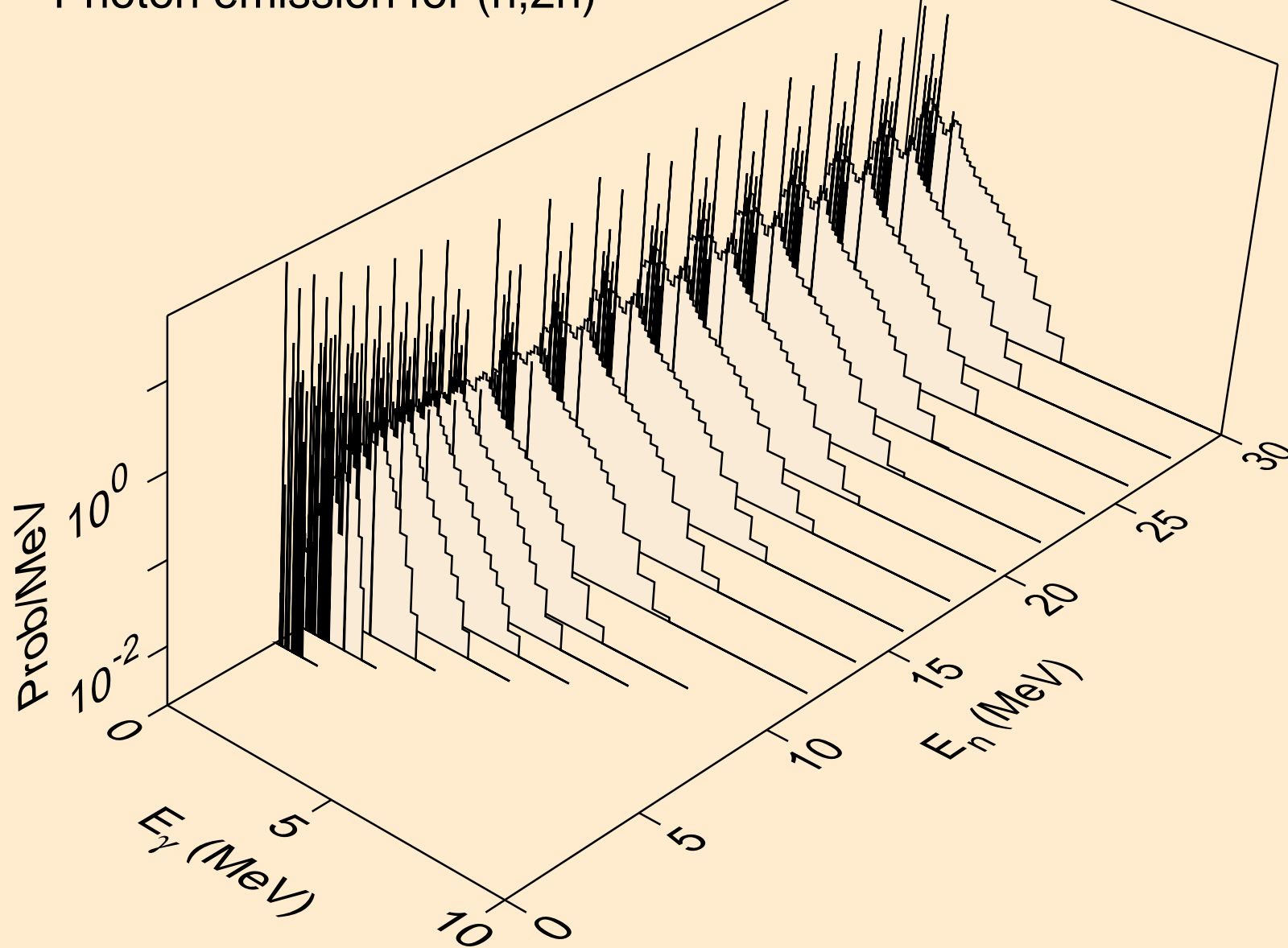
ZR099 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (z,x)



ZR099 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2nd)

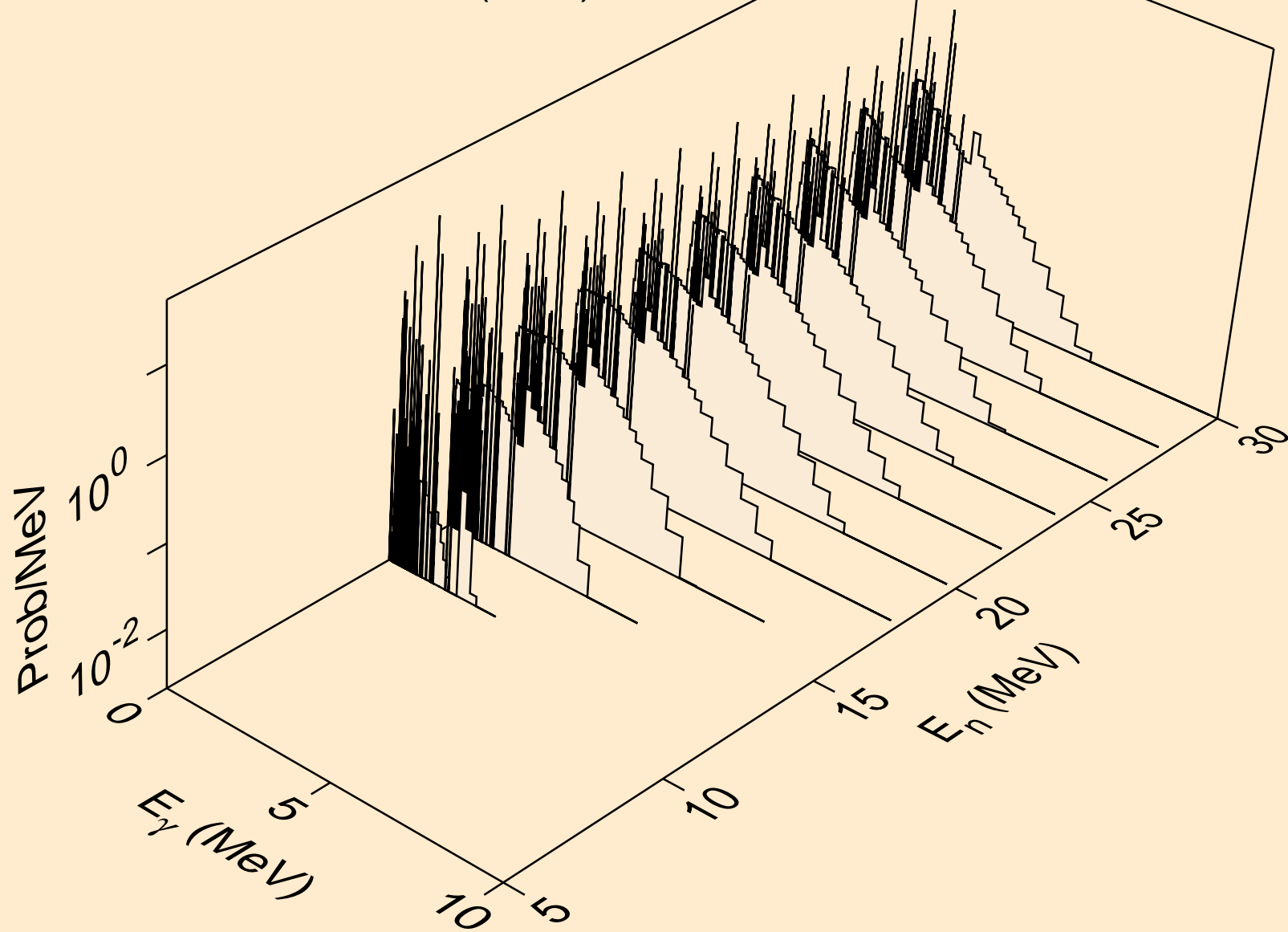


ZR099 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2n)

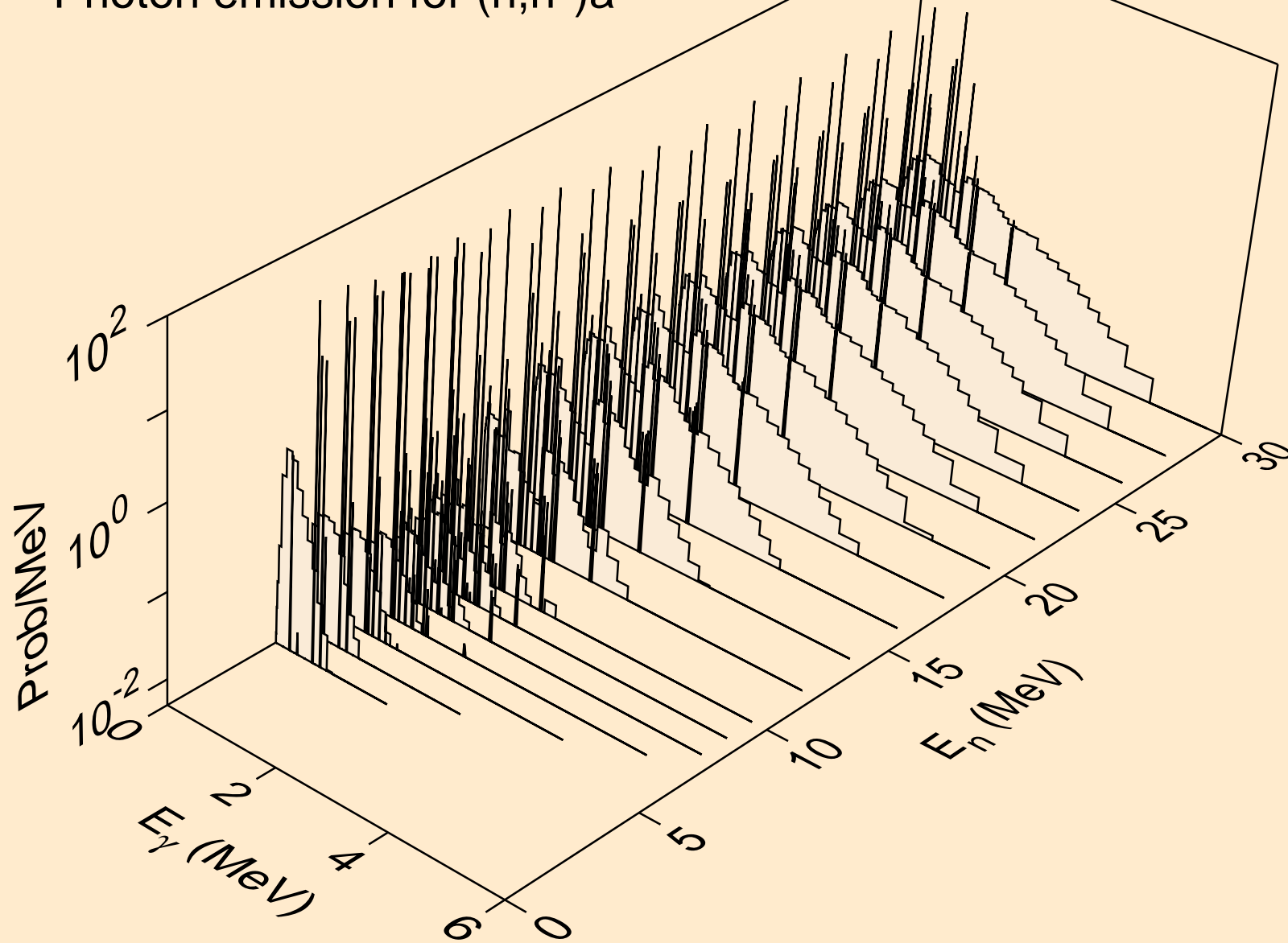




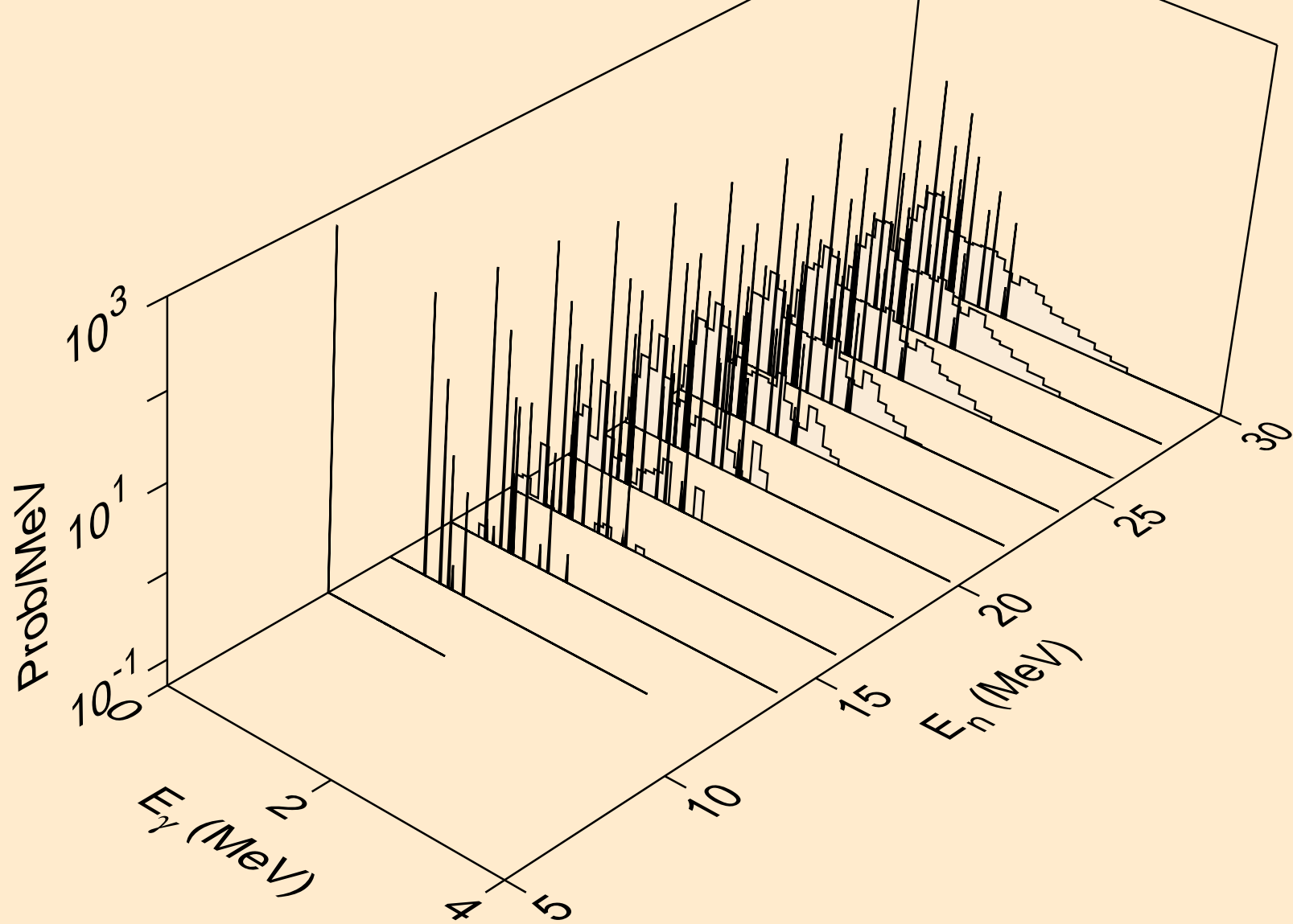
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Photon emission for (n,3n)



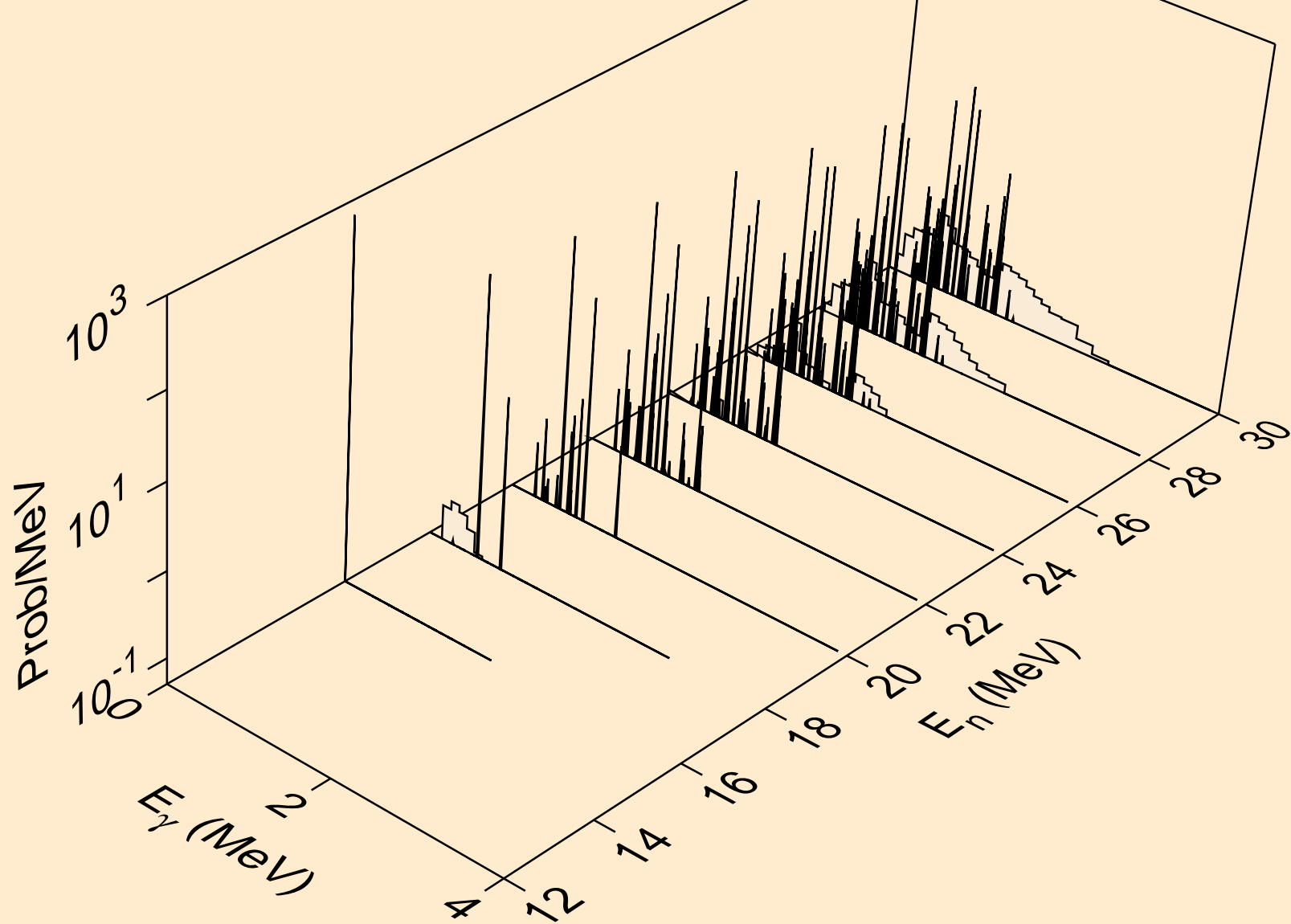
ZR099 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)a



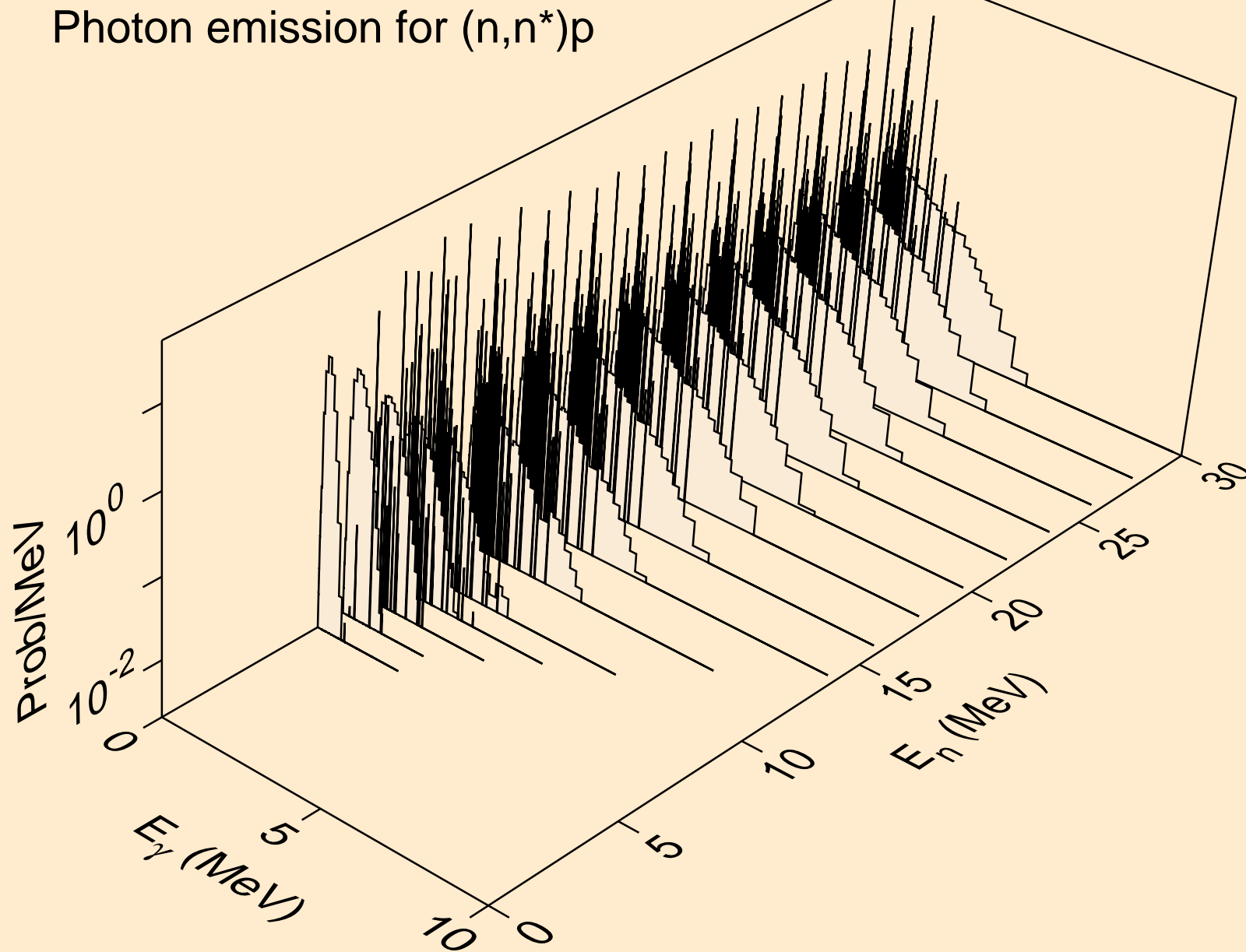
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Photon emission for (n,2n)a



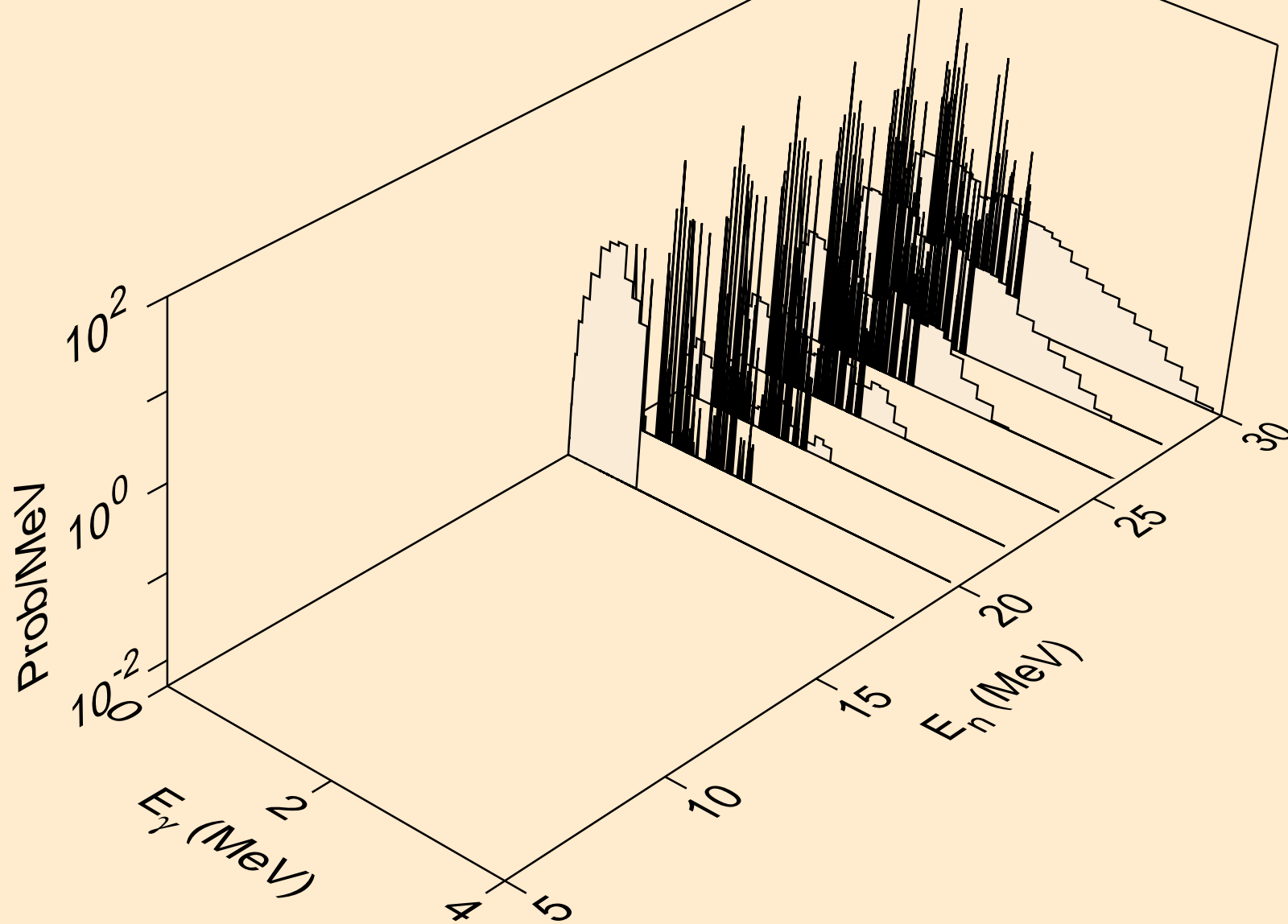
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Photon emission for (n,3n)a



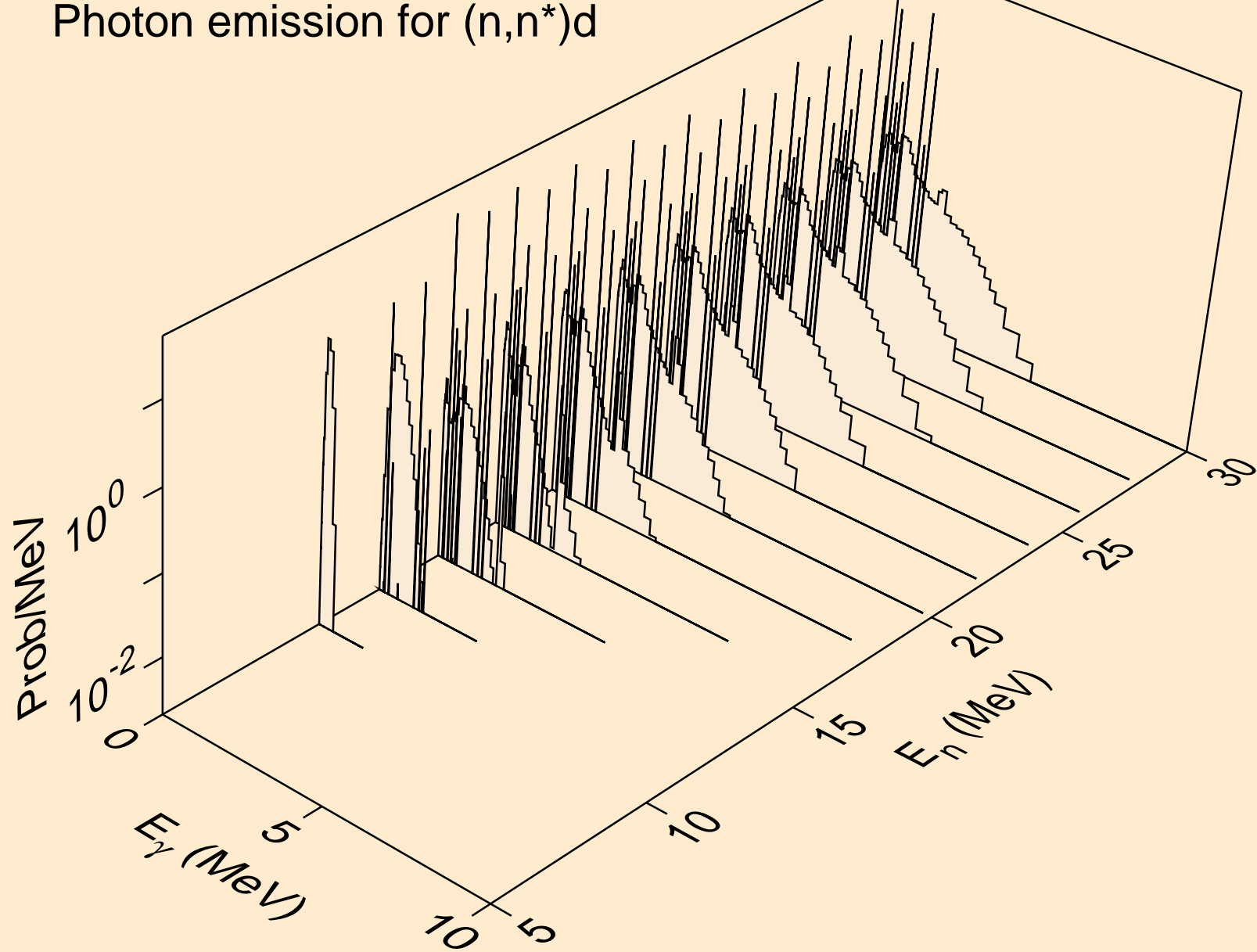
ZR099 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)p



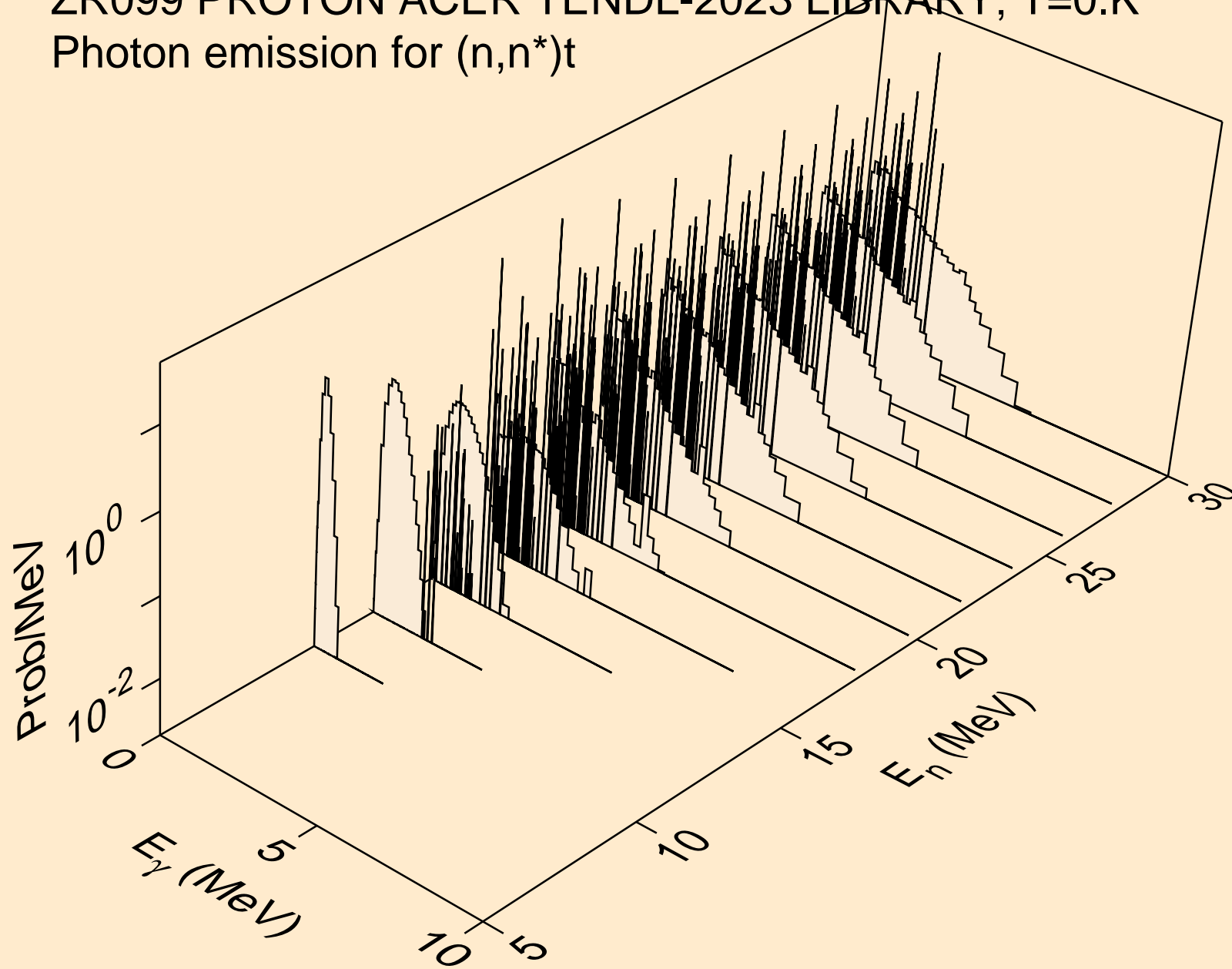
ZR099 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)2a



ZR099 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)d

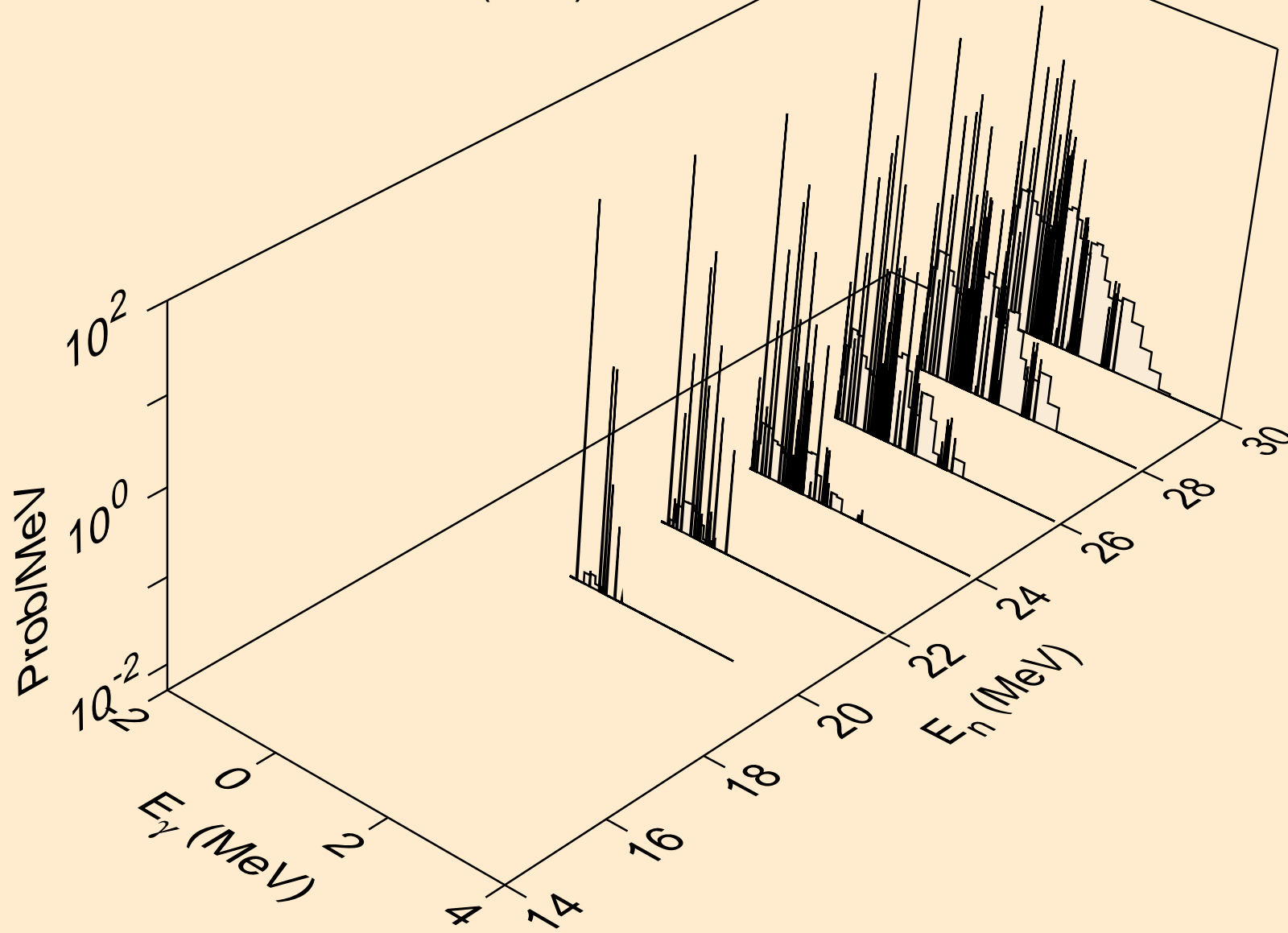


ZR099 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)t

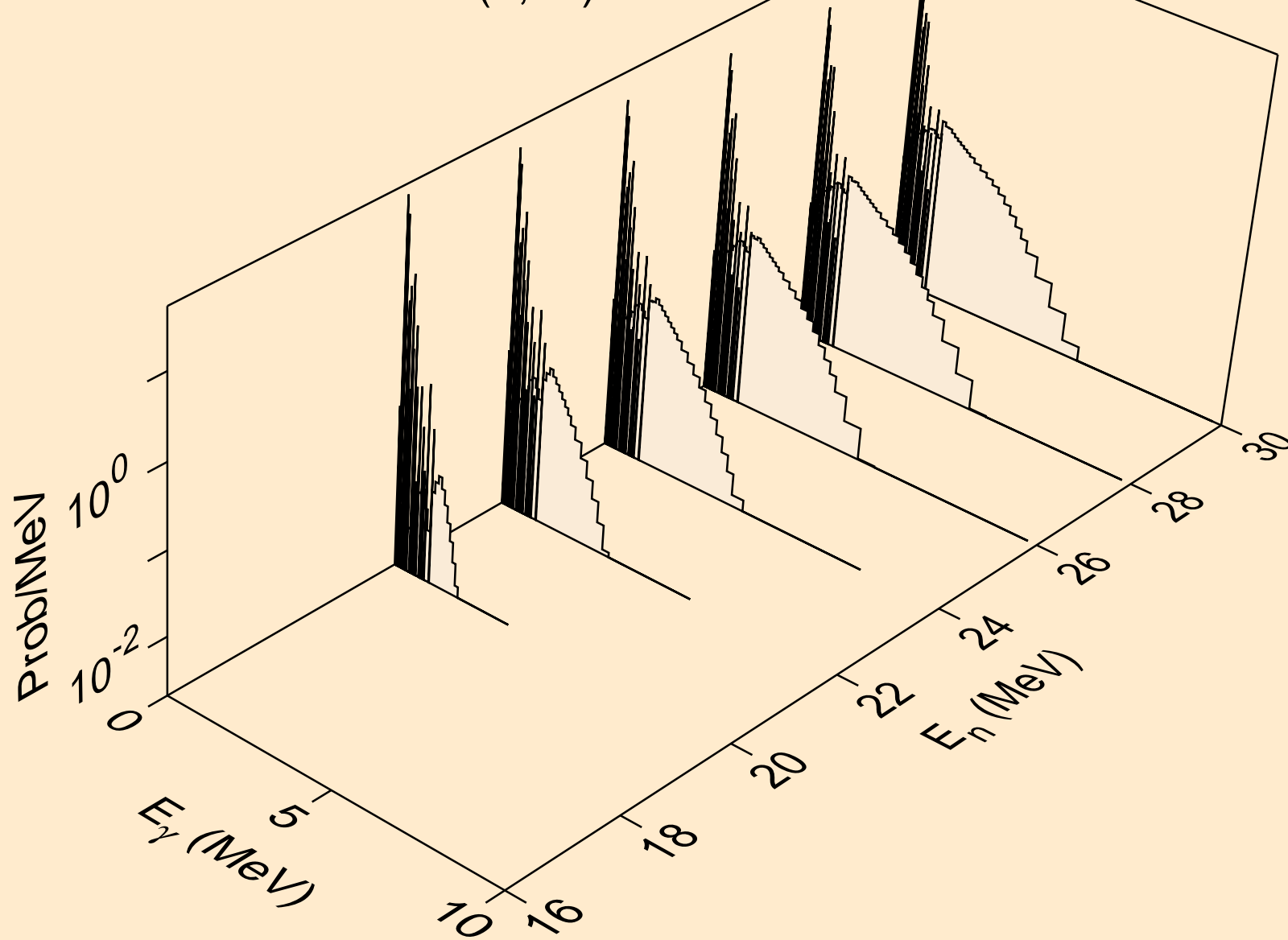




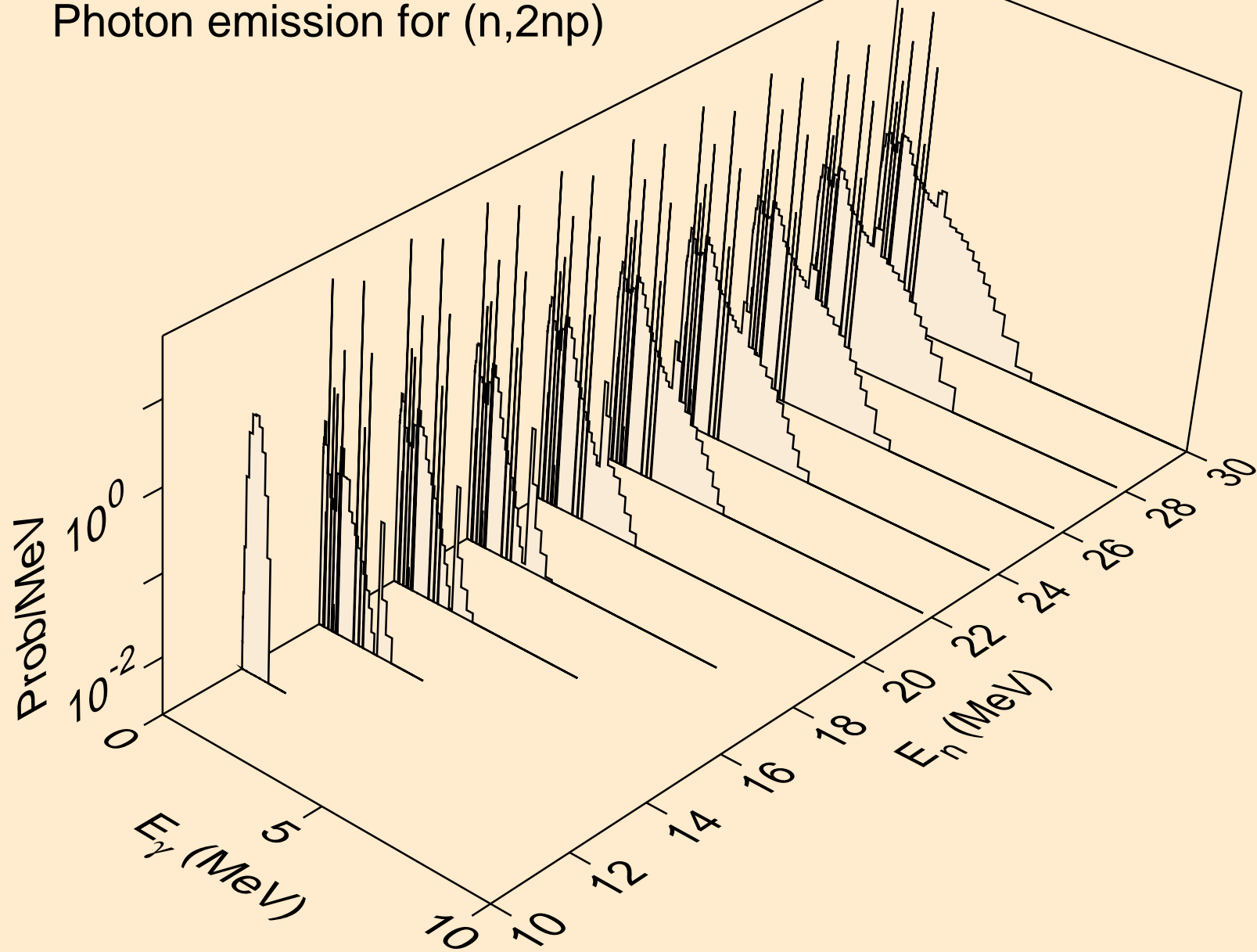
ZR099 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)he3



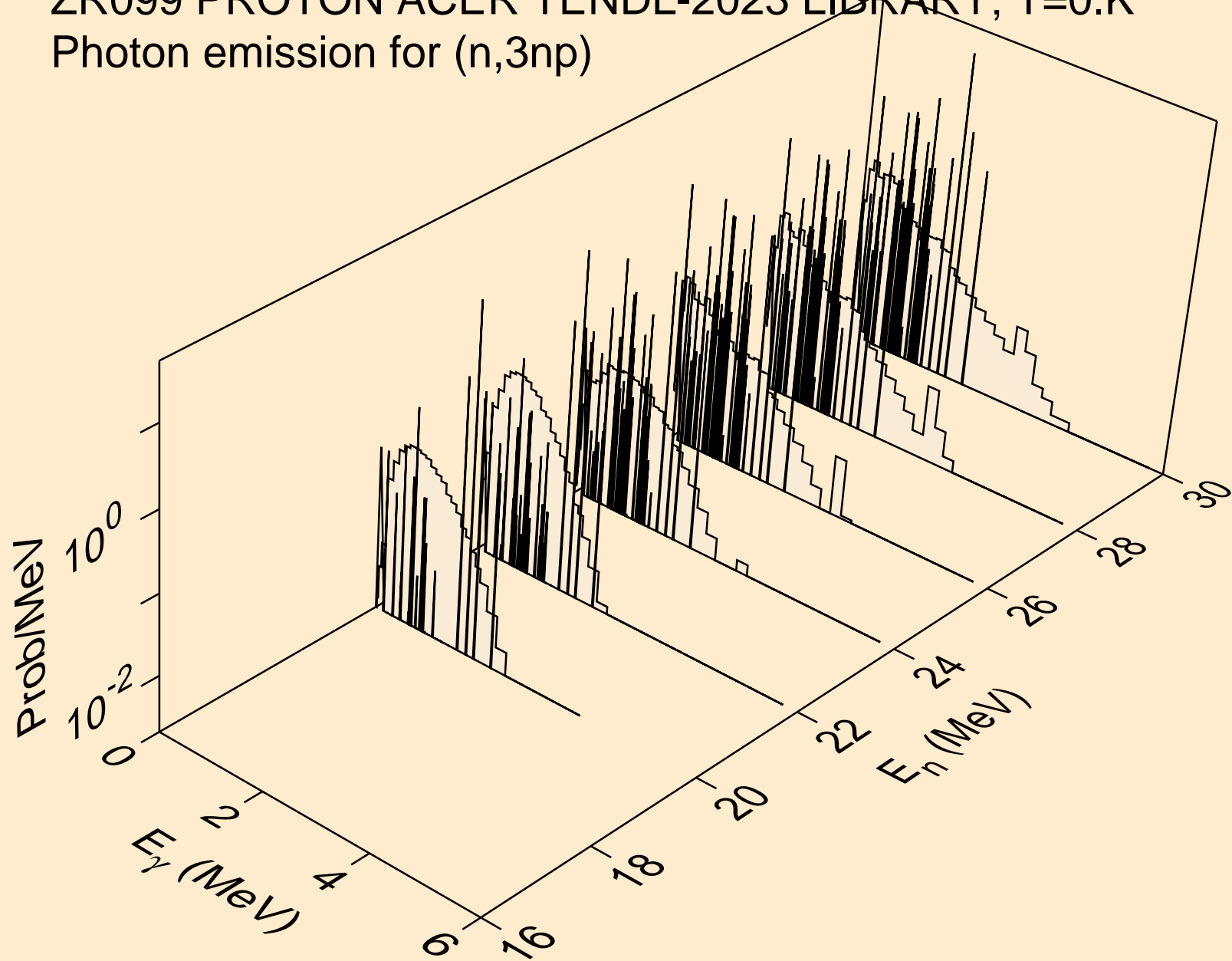
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Photon emission for (n,4n)



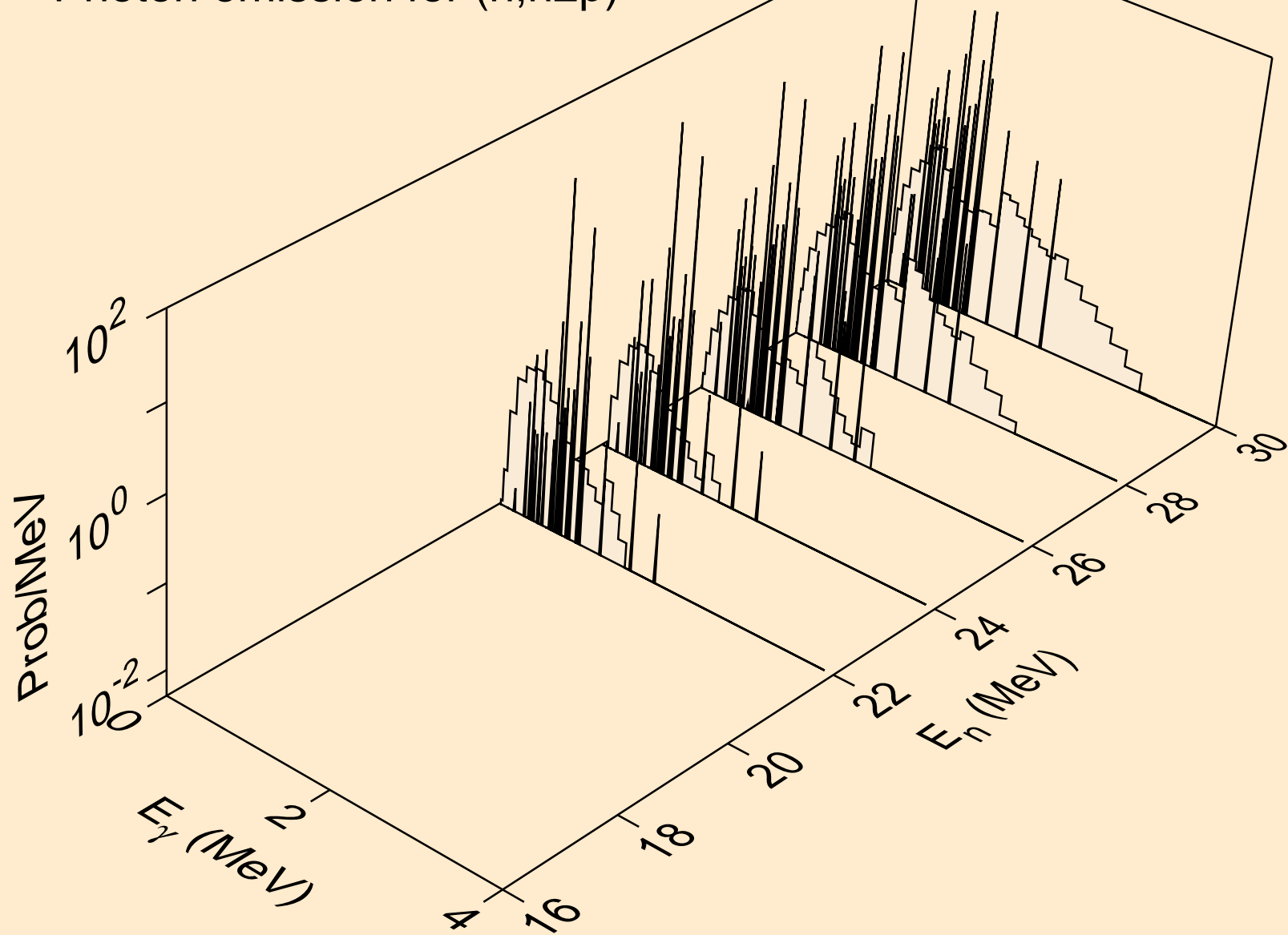
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Photon emission for (n,2np)



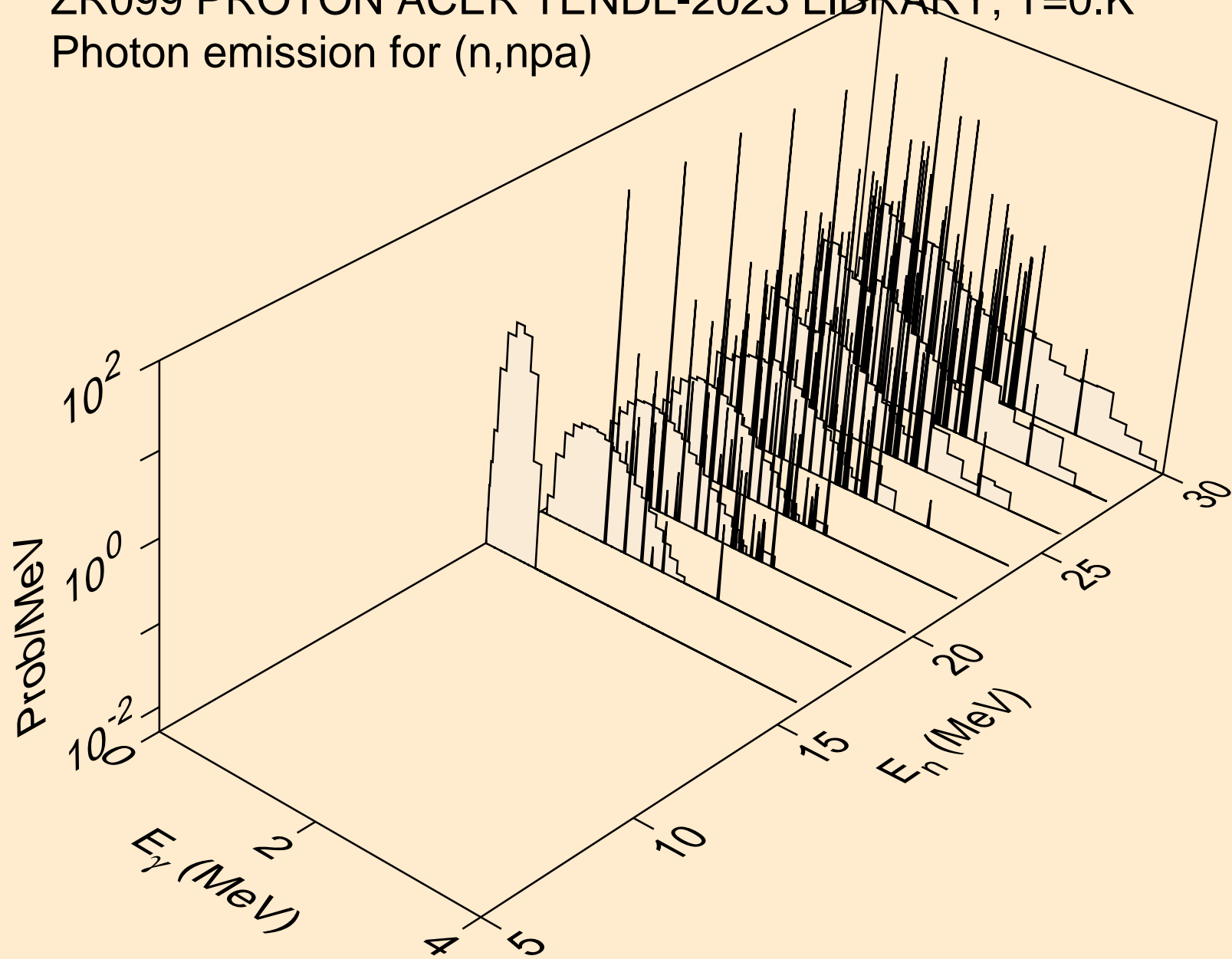
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Photon emission for (n,3np)



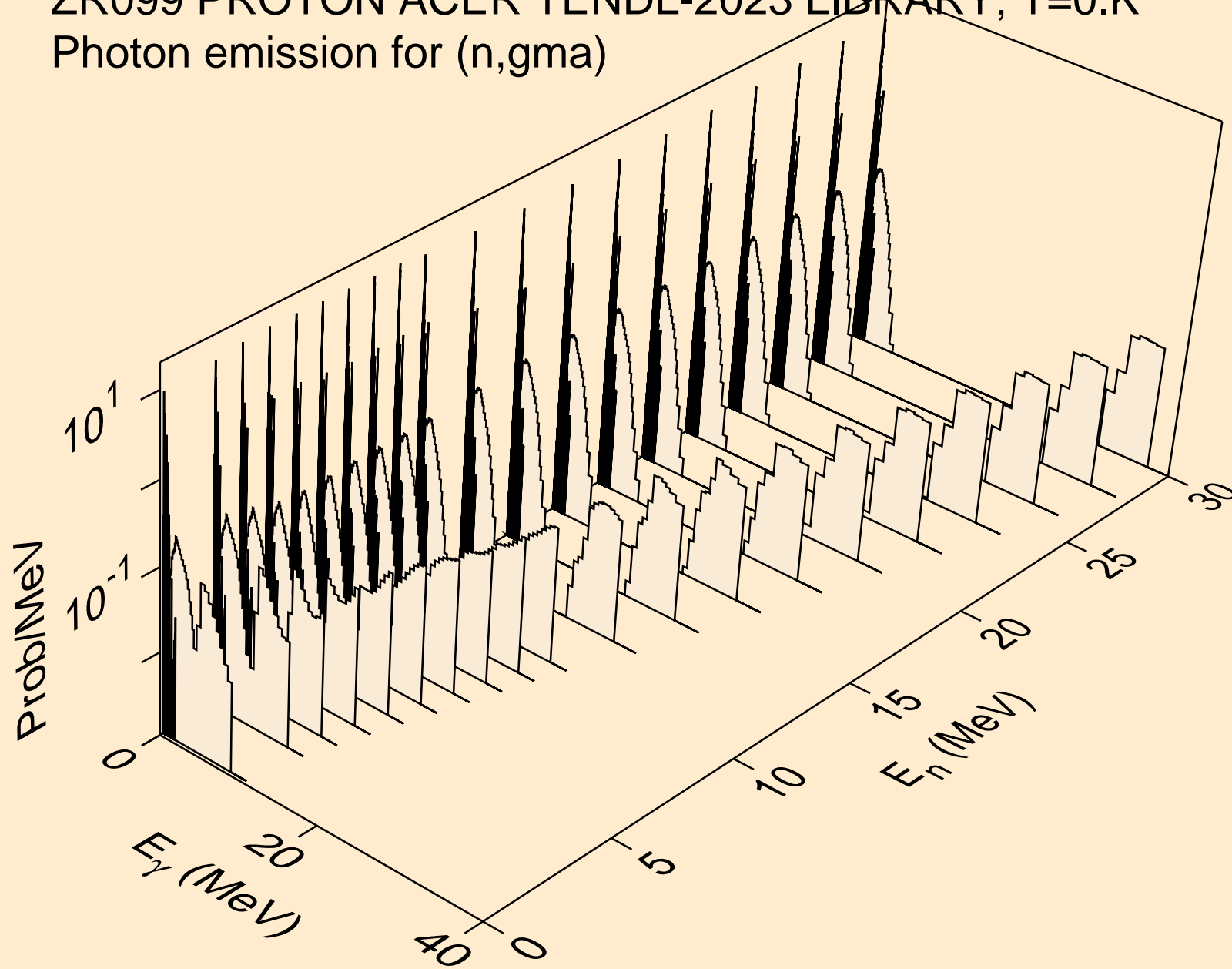
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Photon emission for (n,n2p)



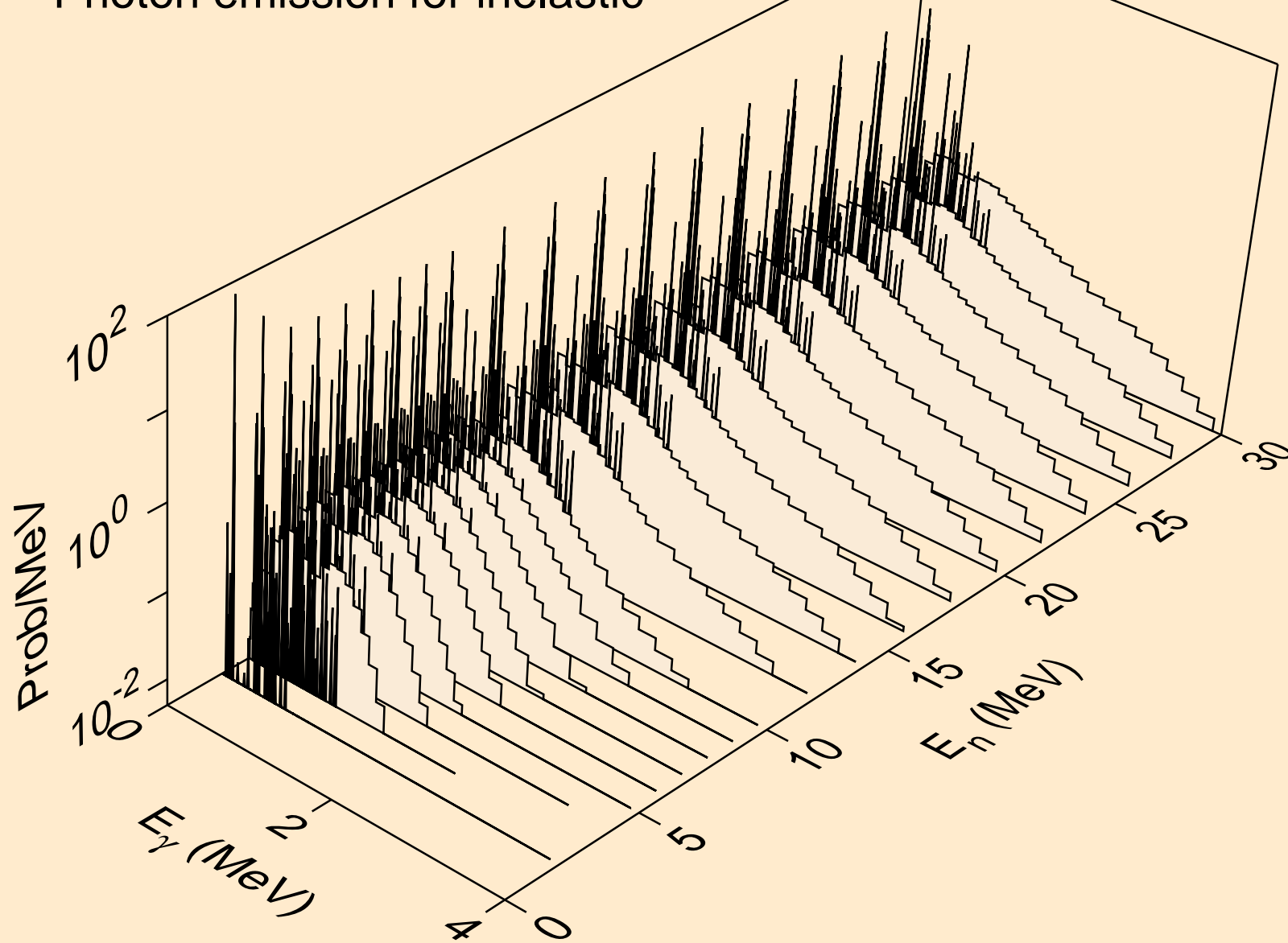
ZR099 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,npa)



ZR099 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,gma)

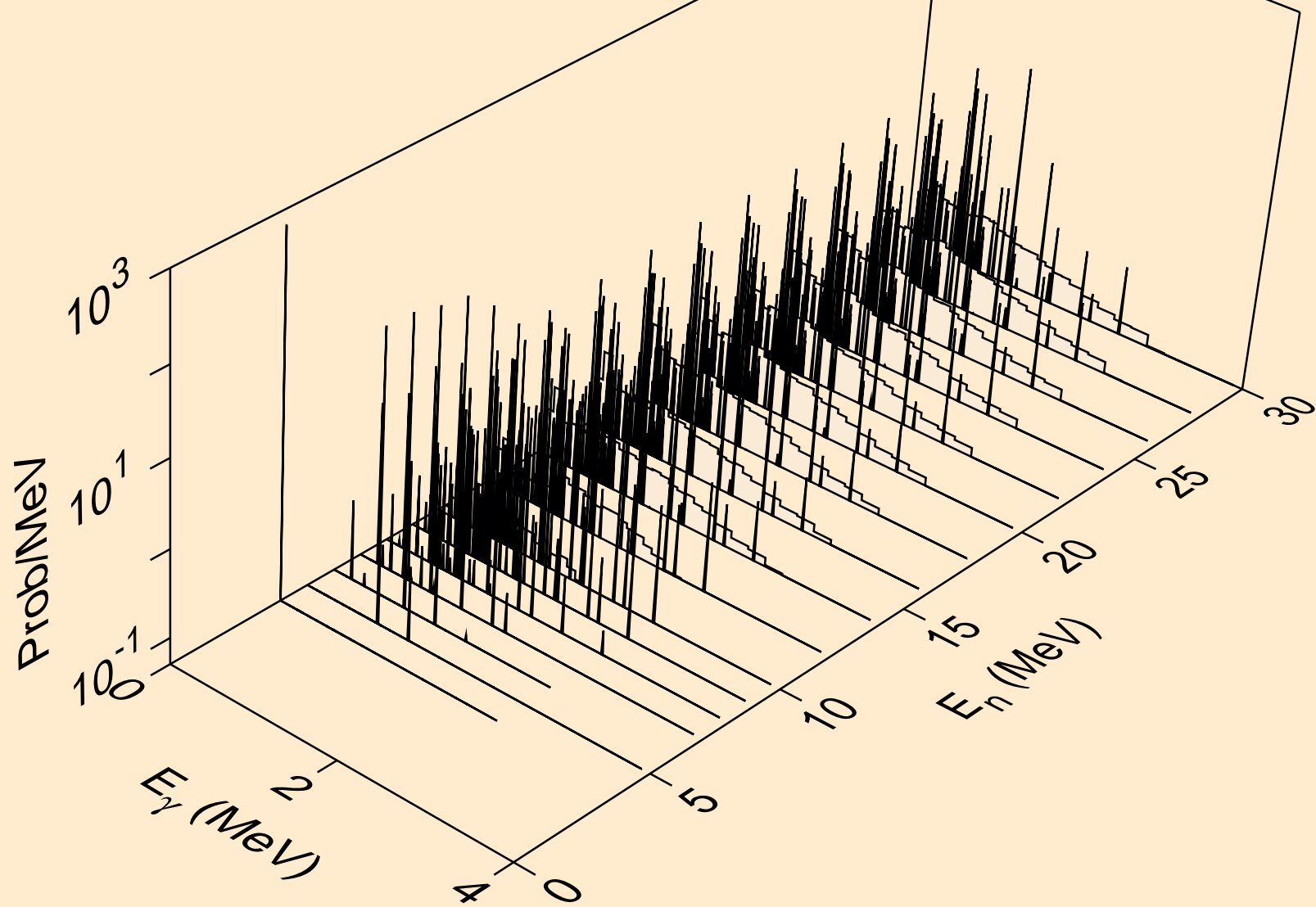


ZR099 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for inelastic

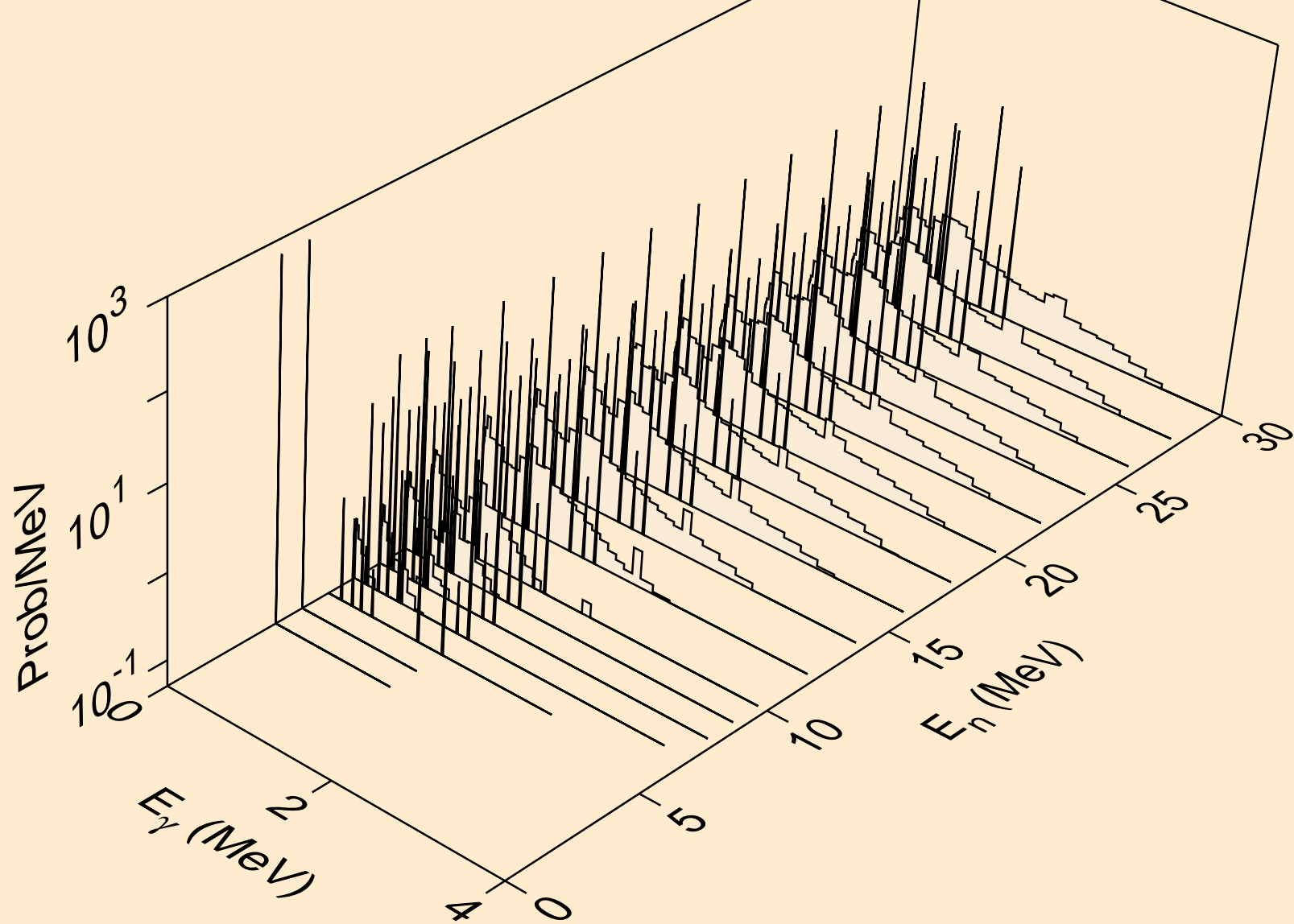




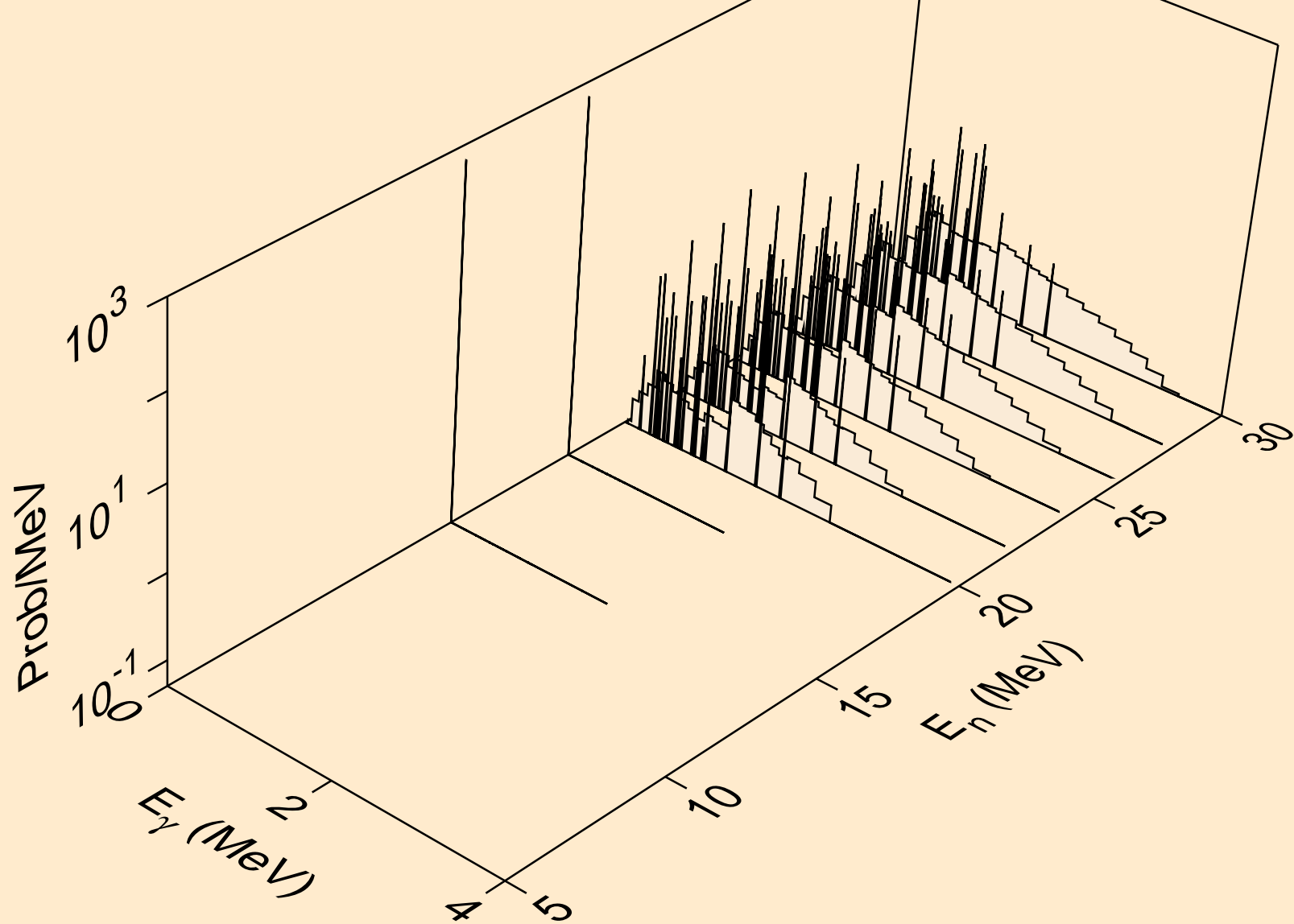
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Photon emission for (n,d)



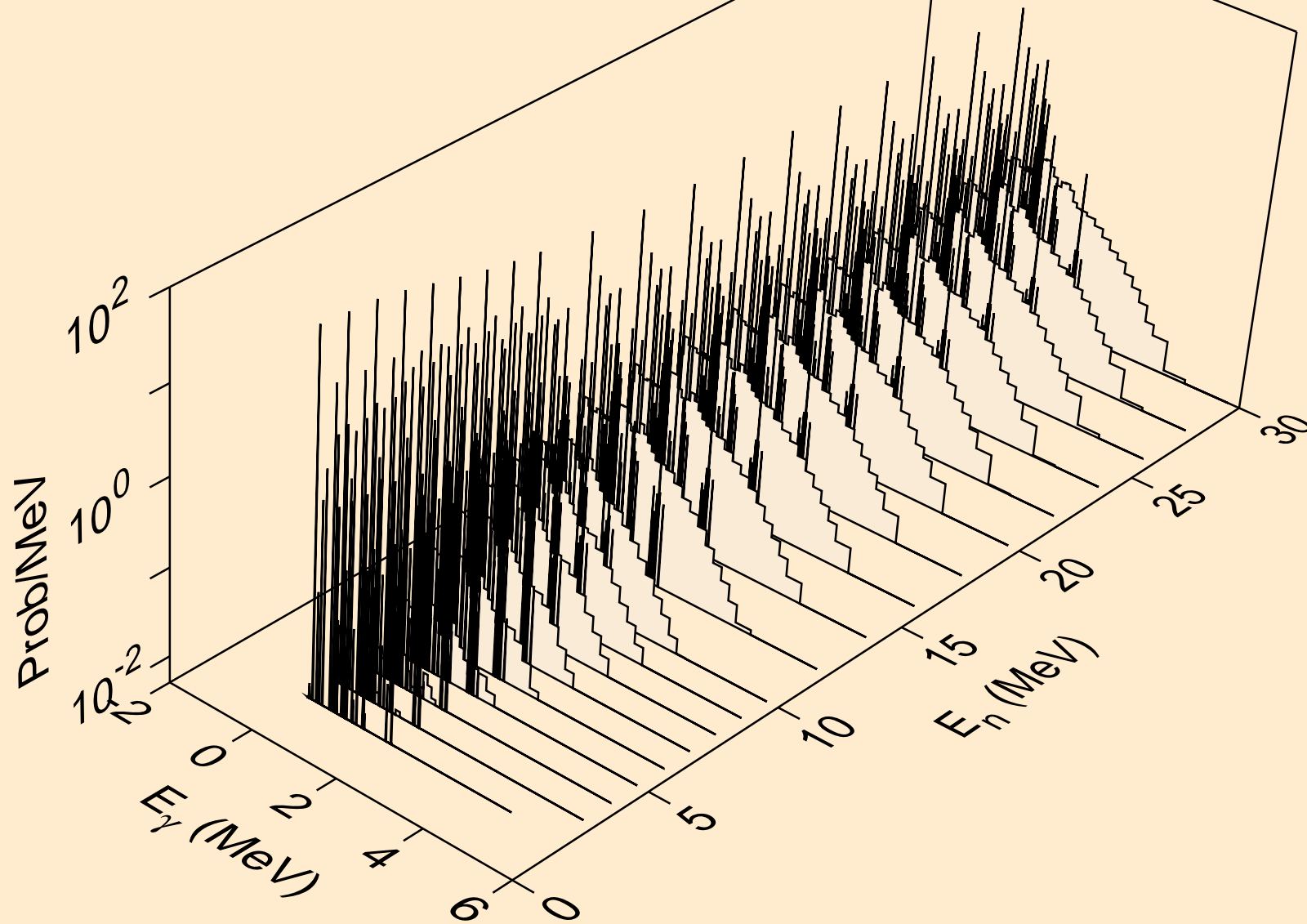
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Photon emission for (n,t)



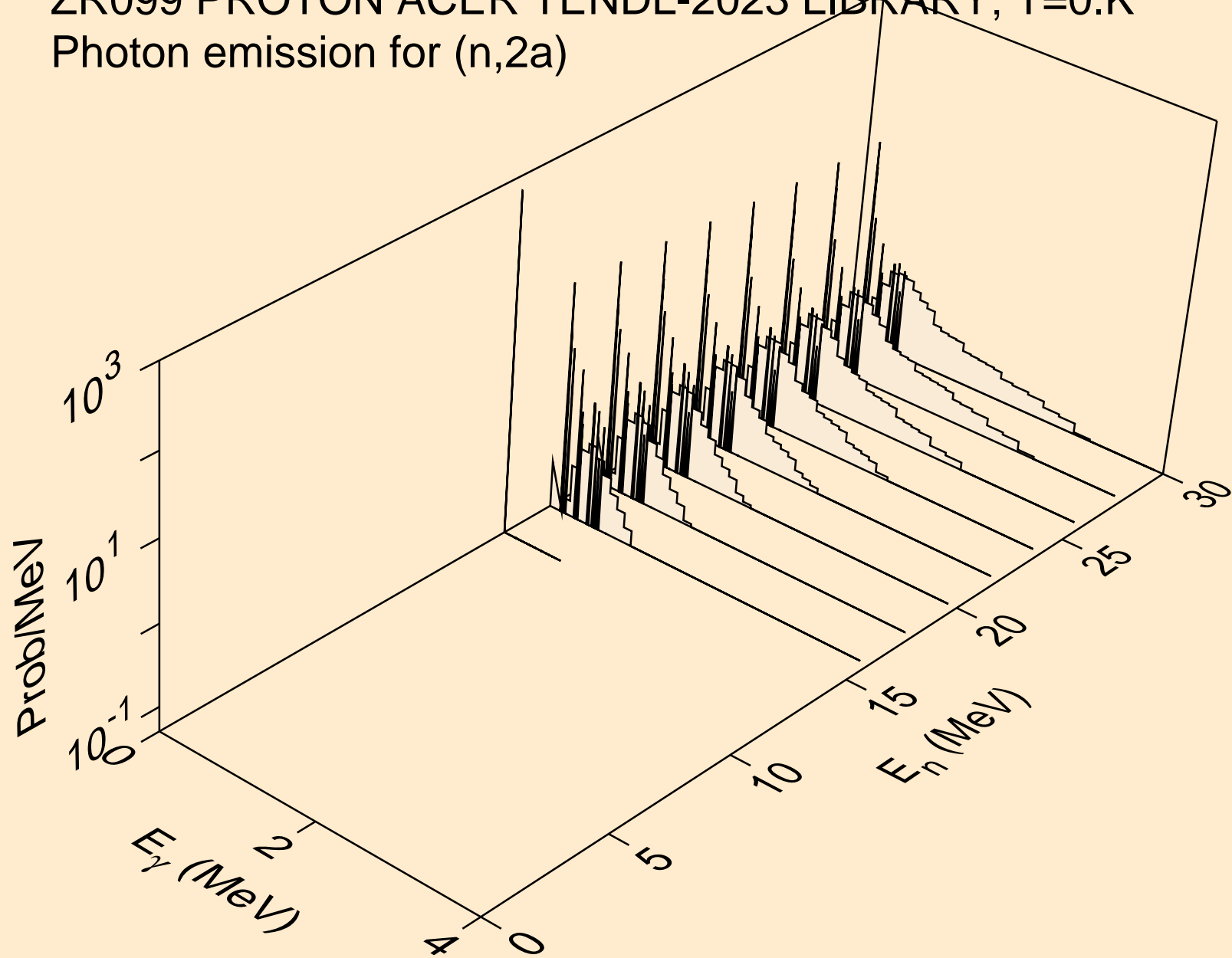
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Photon emission for (n,he3)



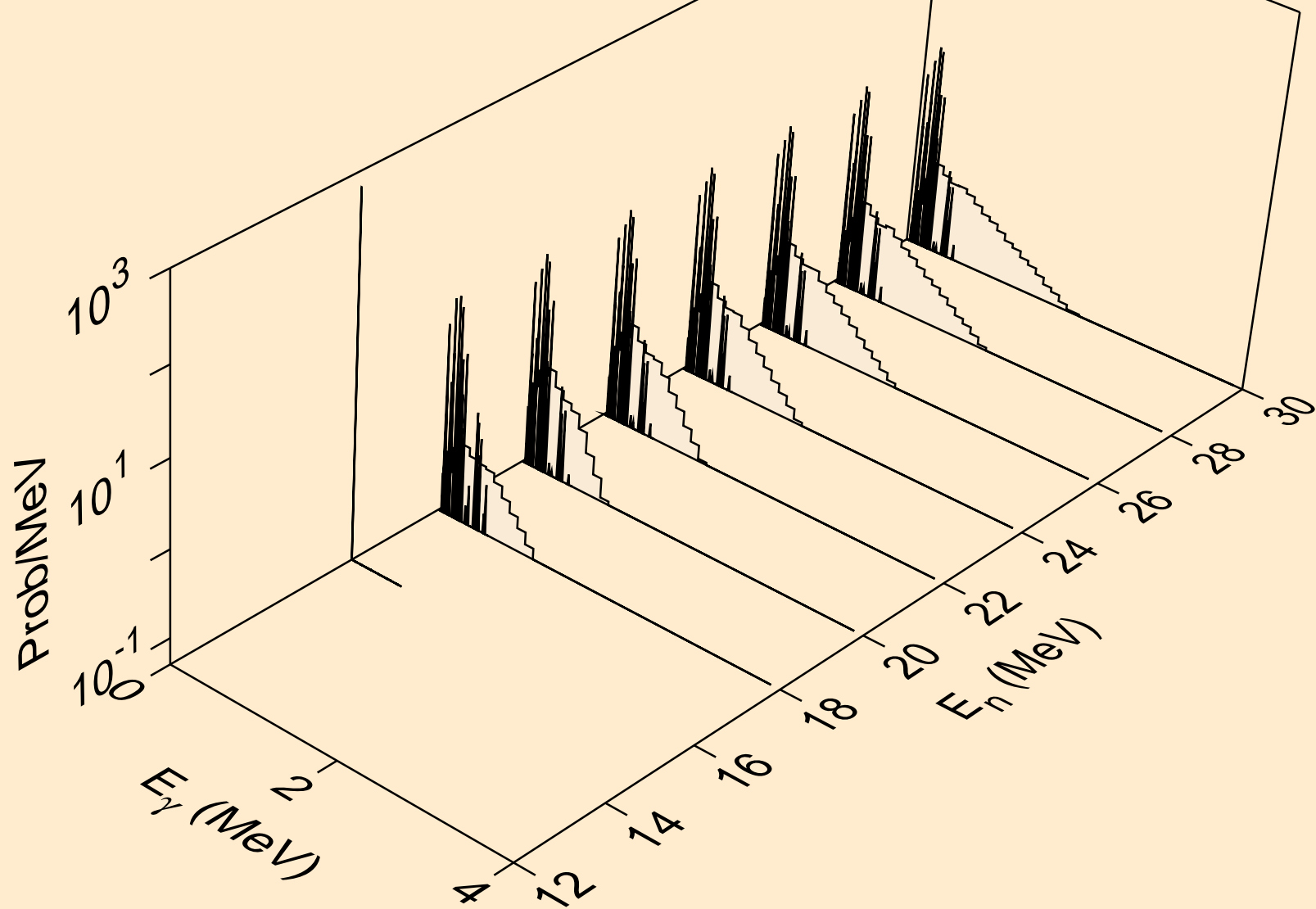
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Photon emission for (n,a)



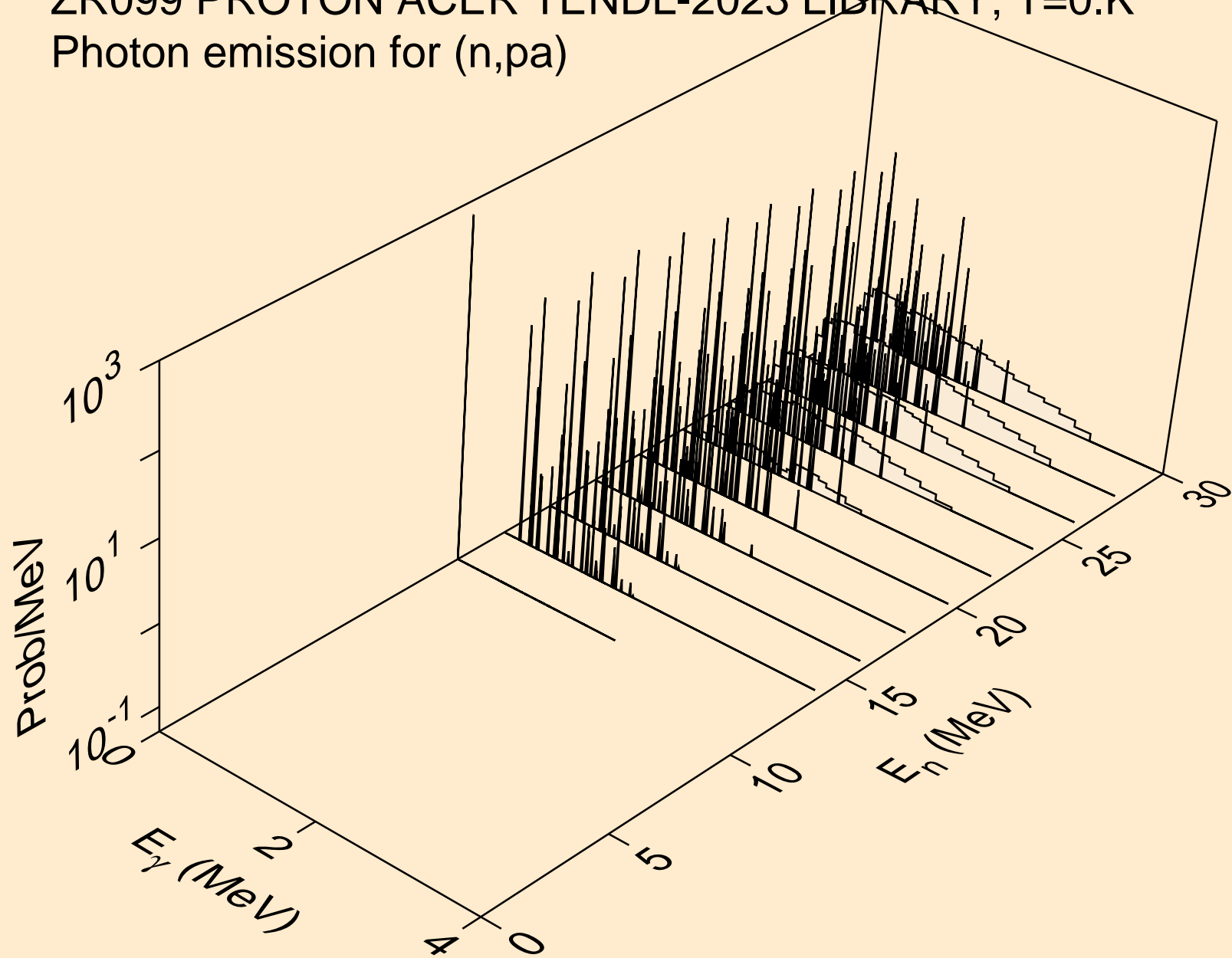
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Photon emission for (n,2a)



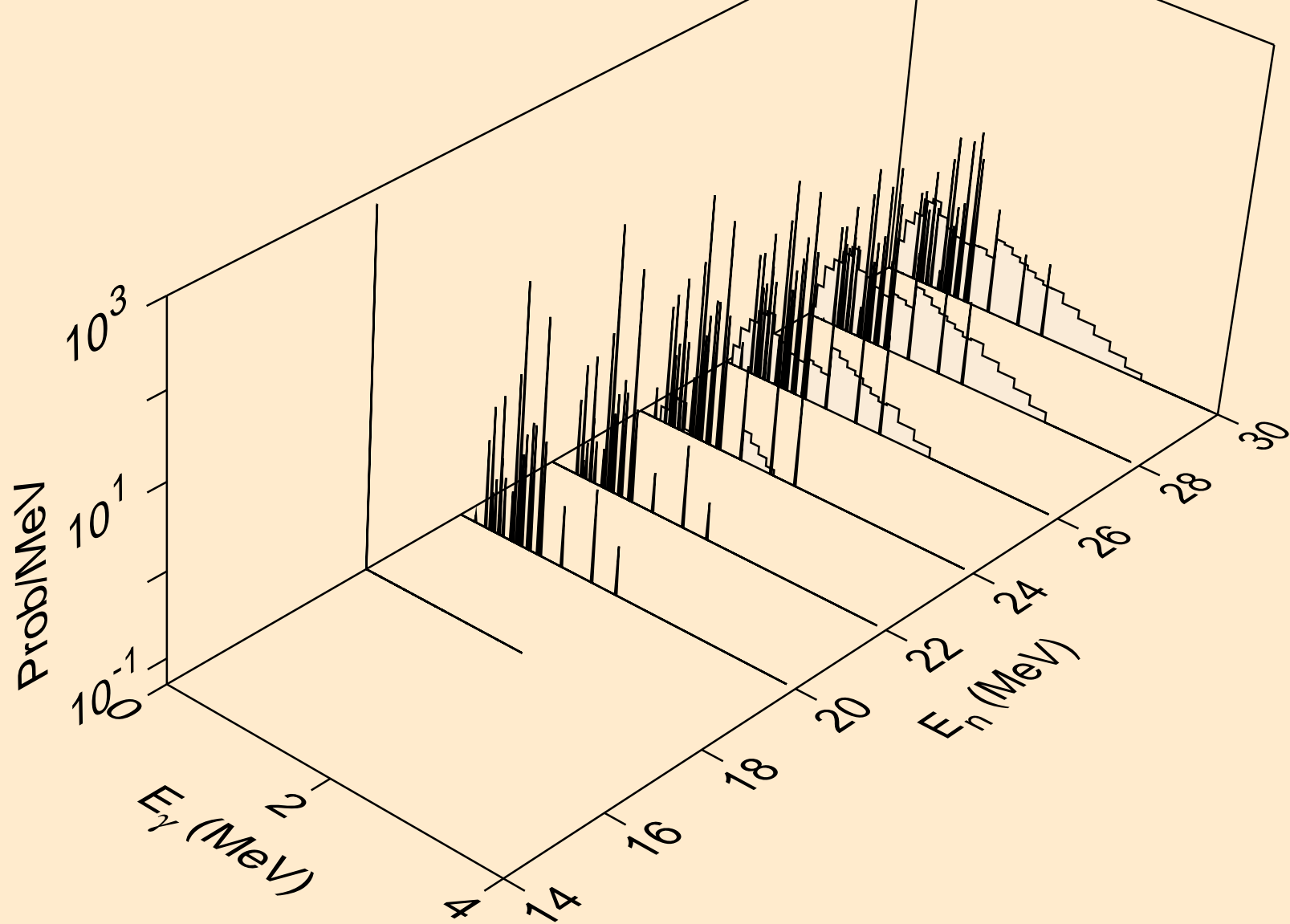
ZR099 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2p)



ZR099 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,p $\alpha$ )

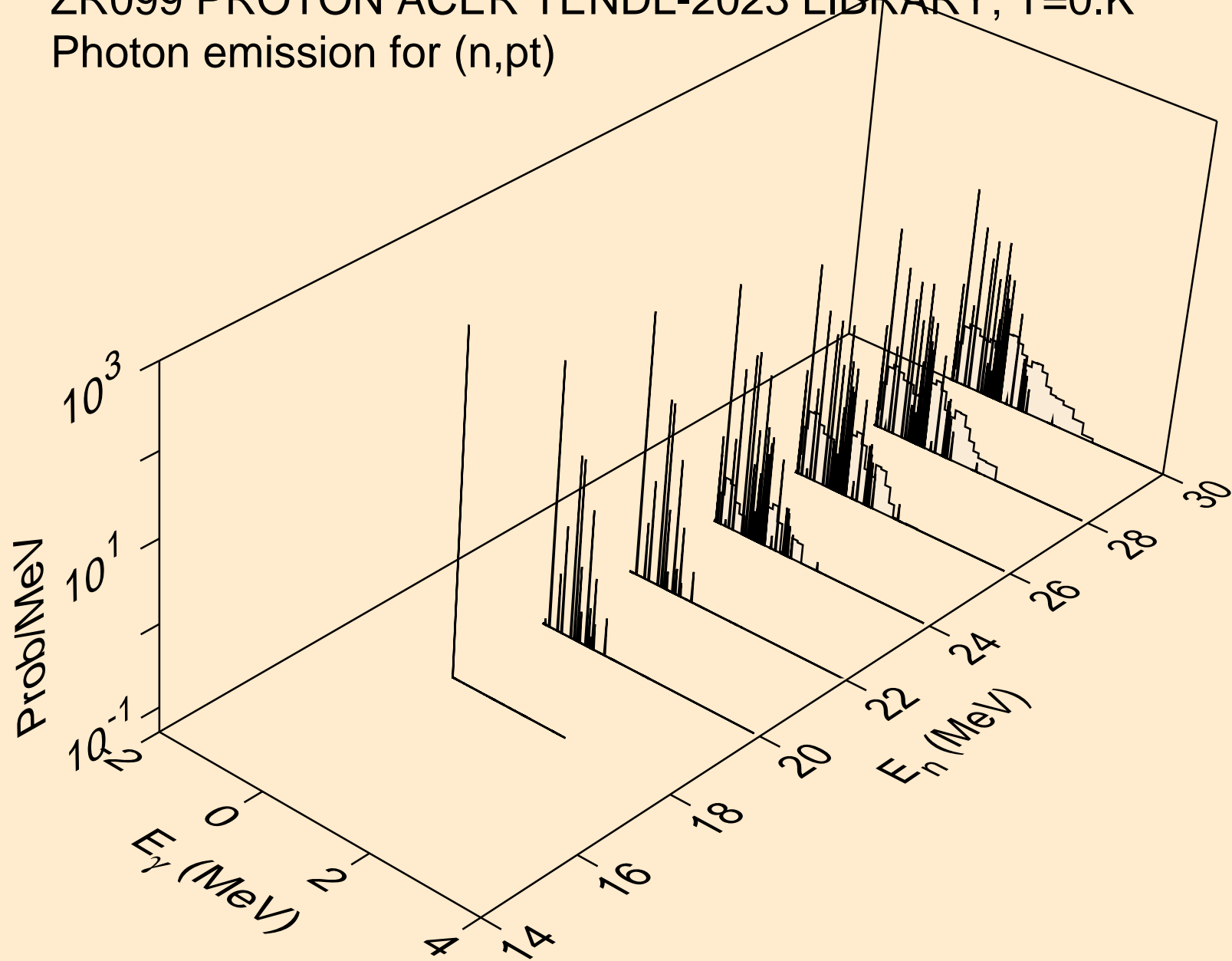


ZR099 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,pd)

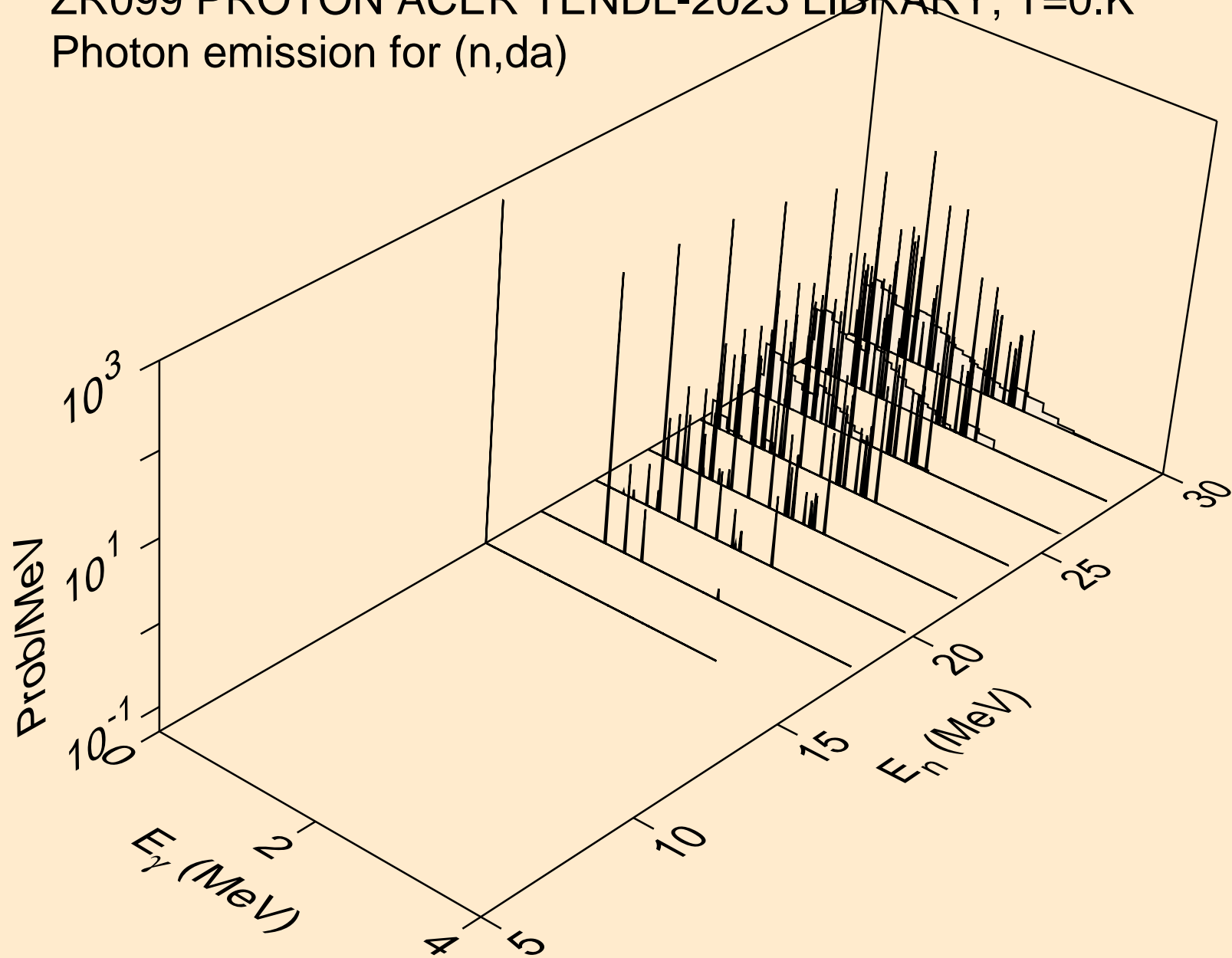




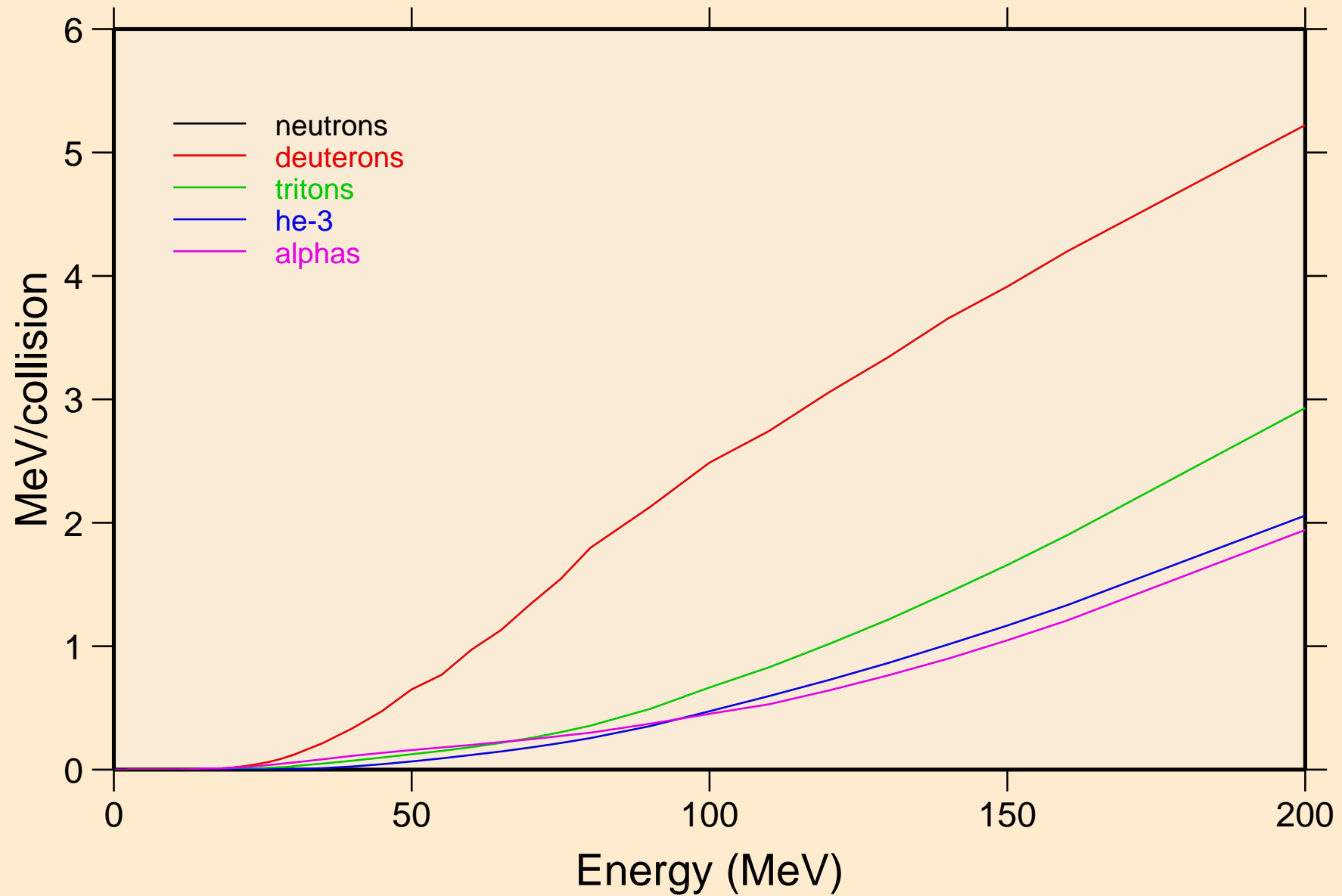
ZR099 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,pt)



ZR099 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,da)

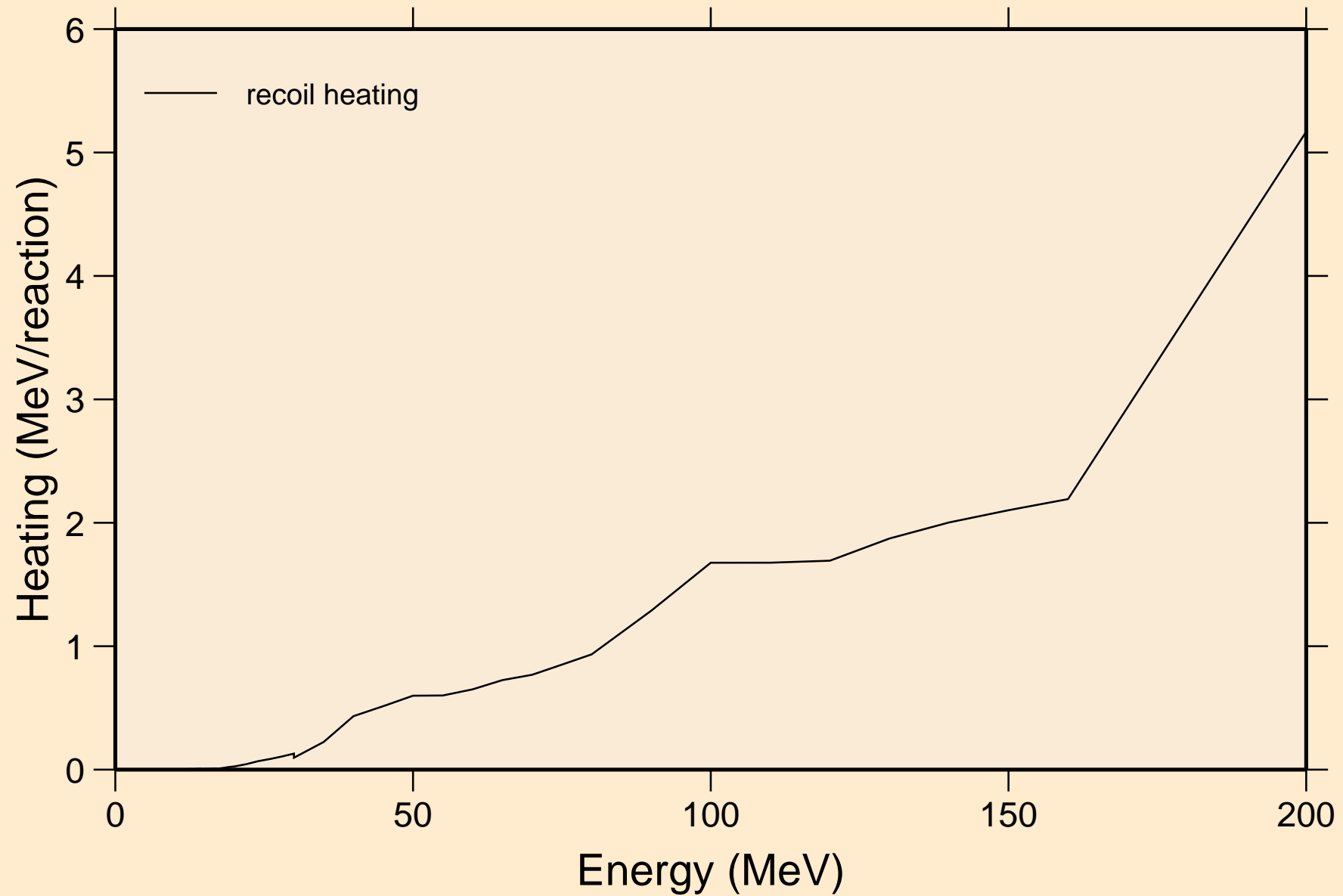


ZR099 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Particle heating contributions

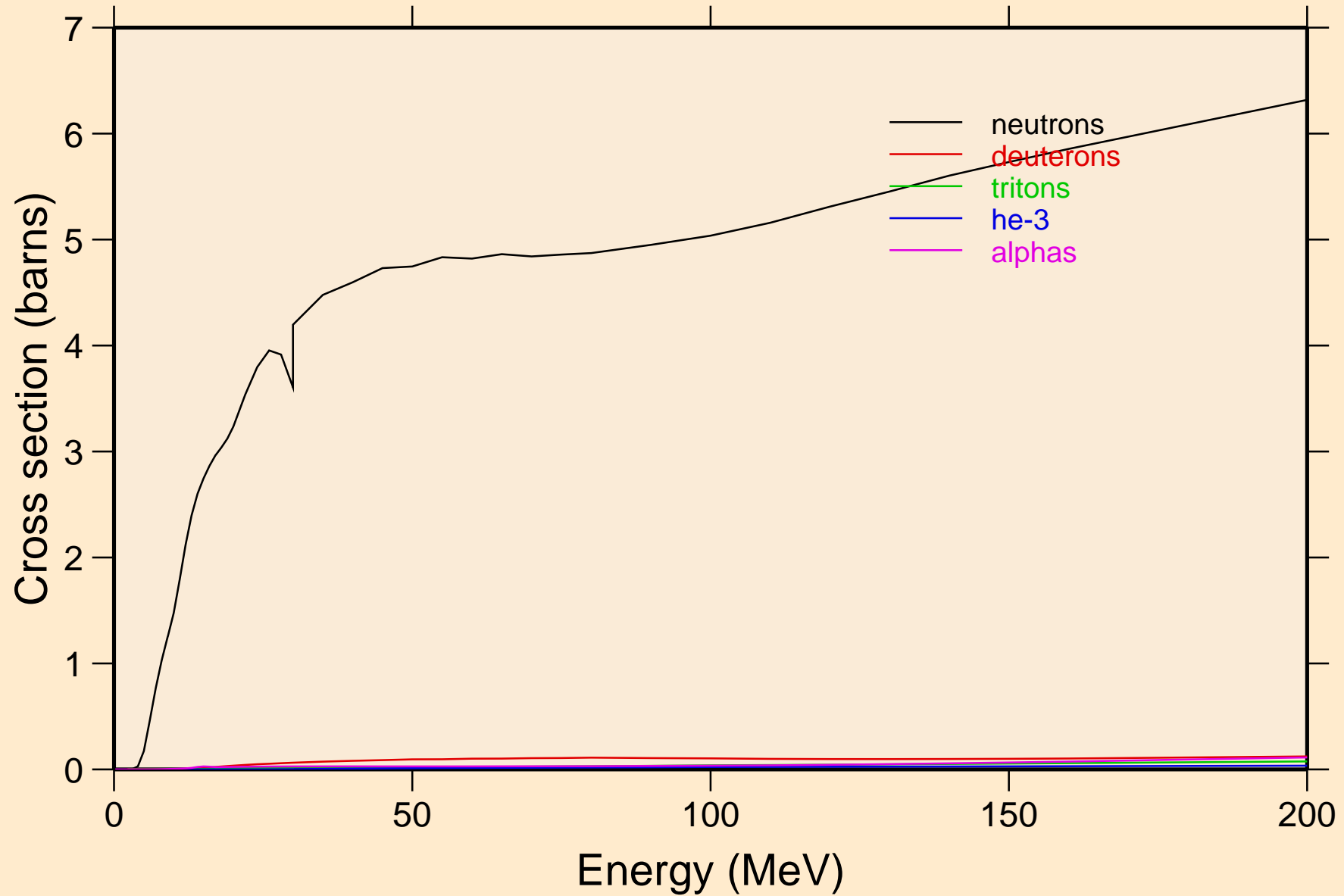


# ZR099 PROTON ACER TENDL-2023 LIBRARY; T=0.K

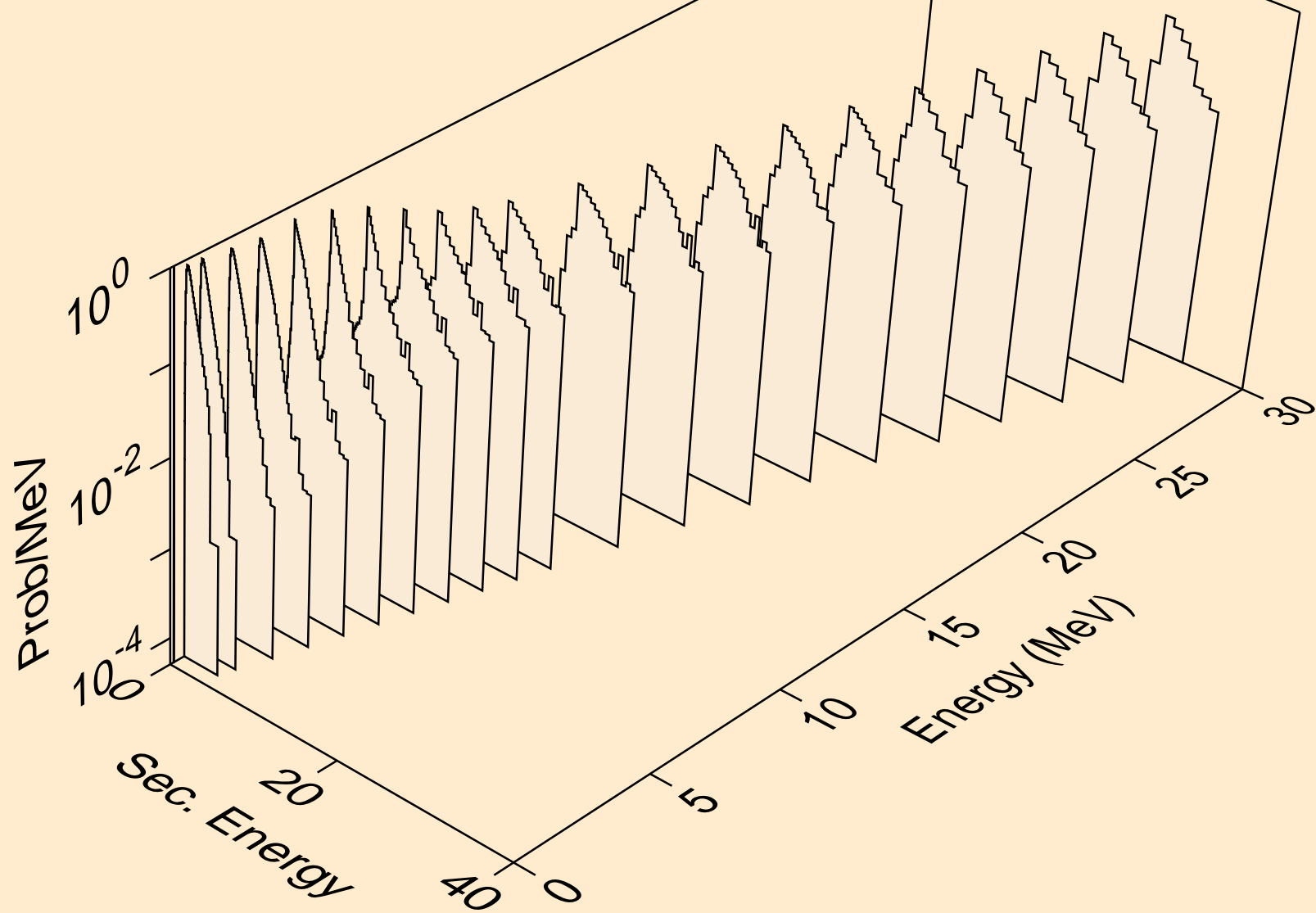
## Recoil Heating



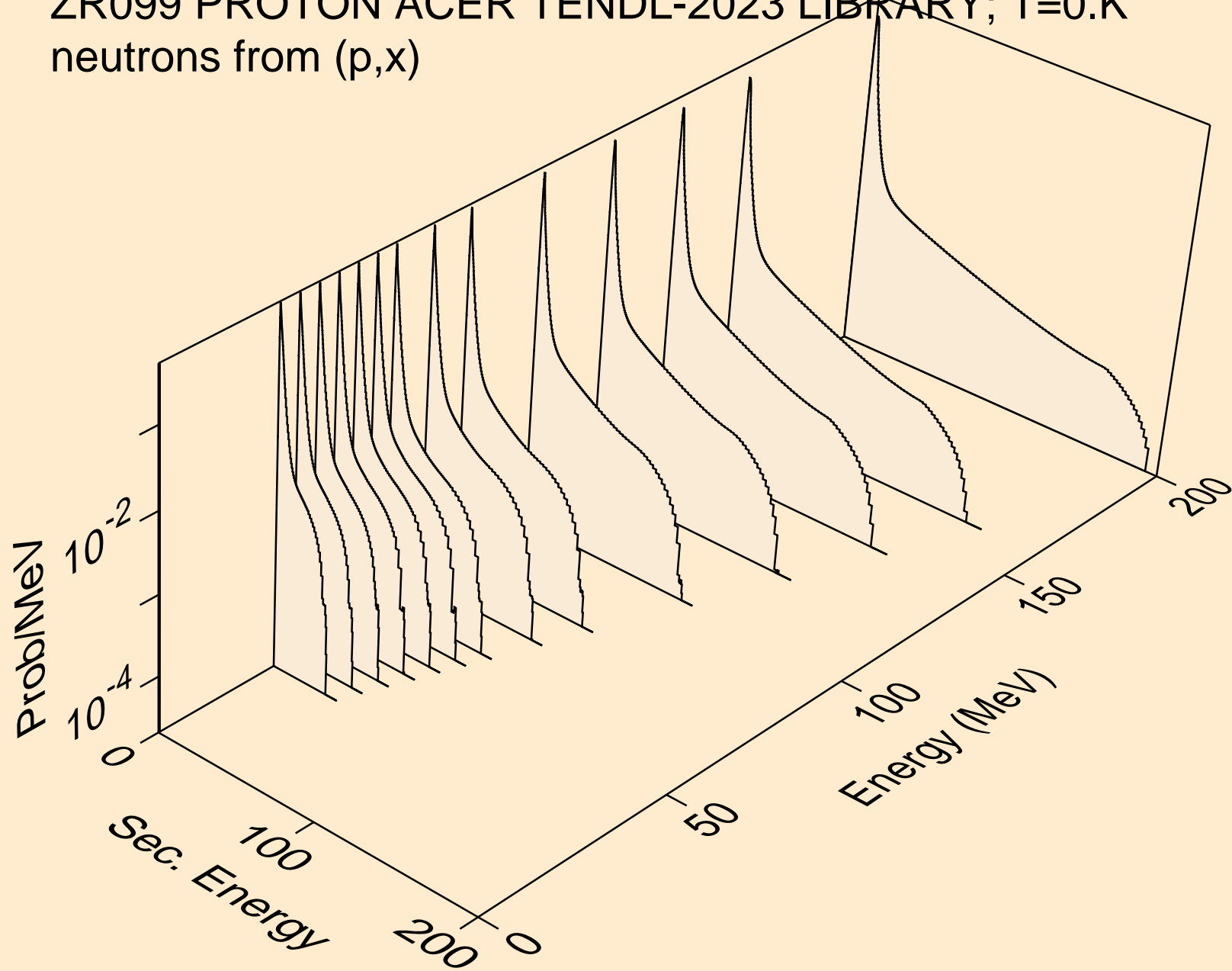
ZR099 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Particle production cross sections



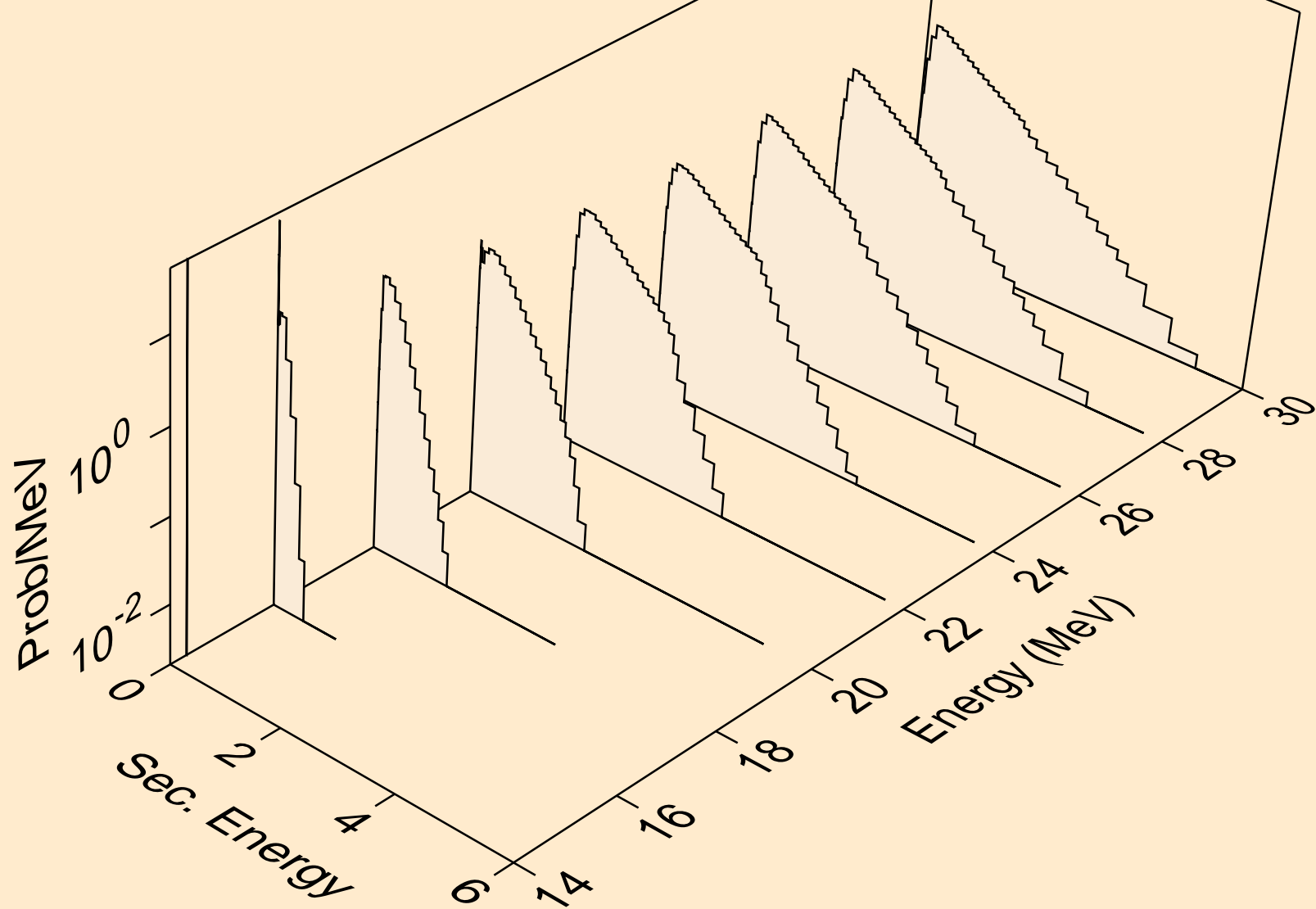
ZR099 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (p,n)



ZR099 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (p,x)

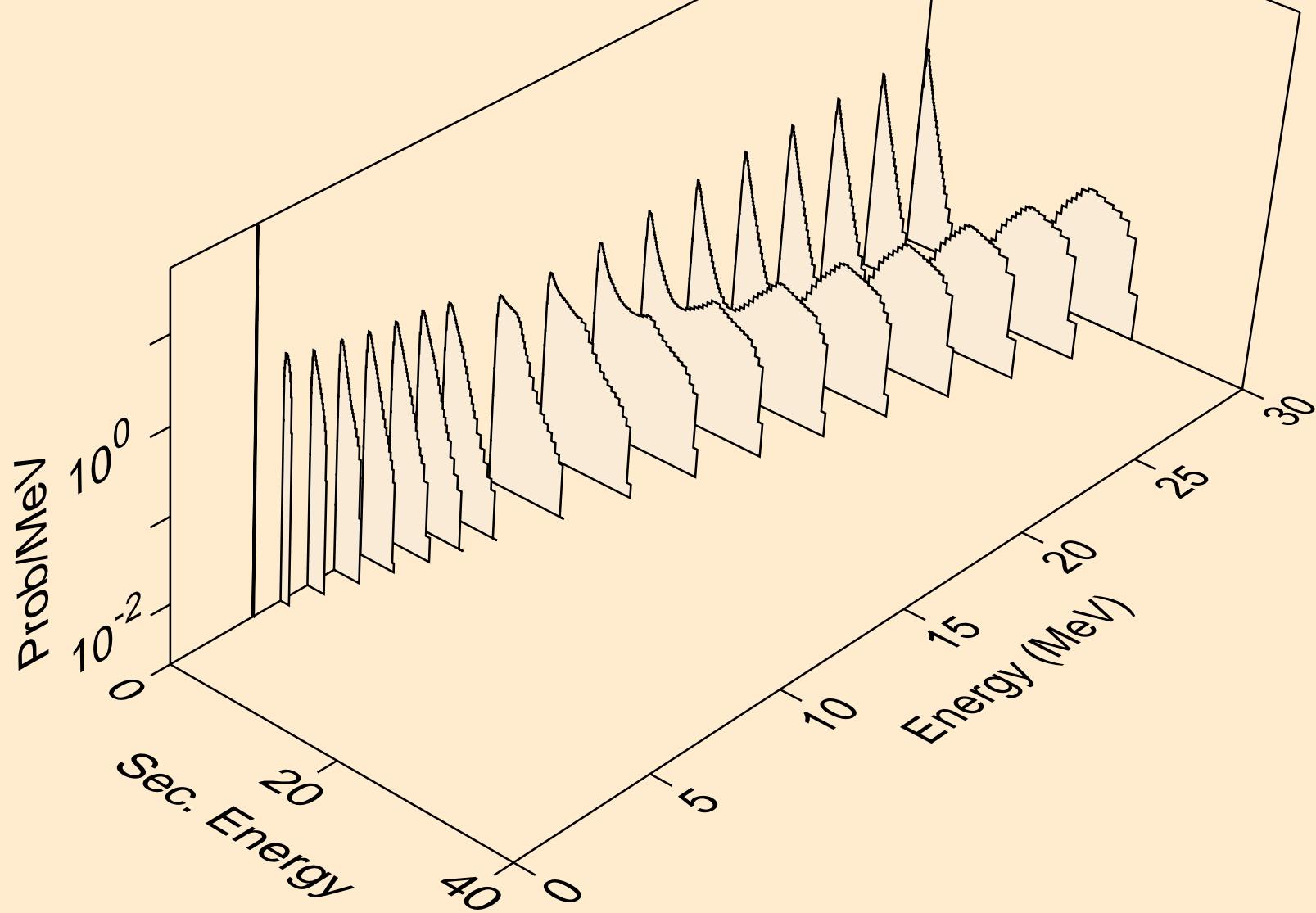


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neutrons from (p,2nd)

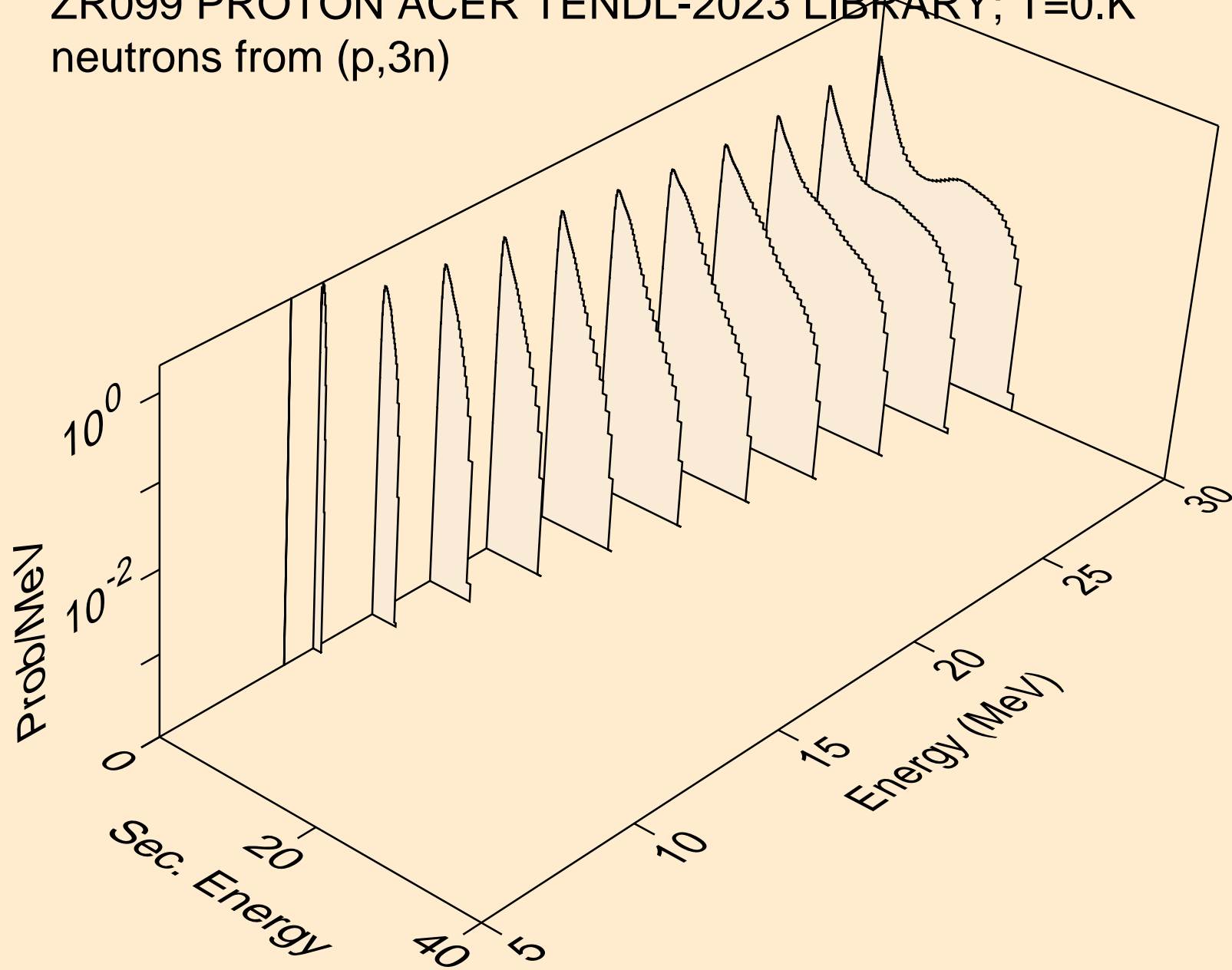




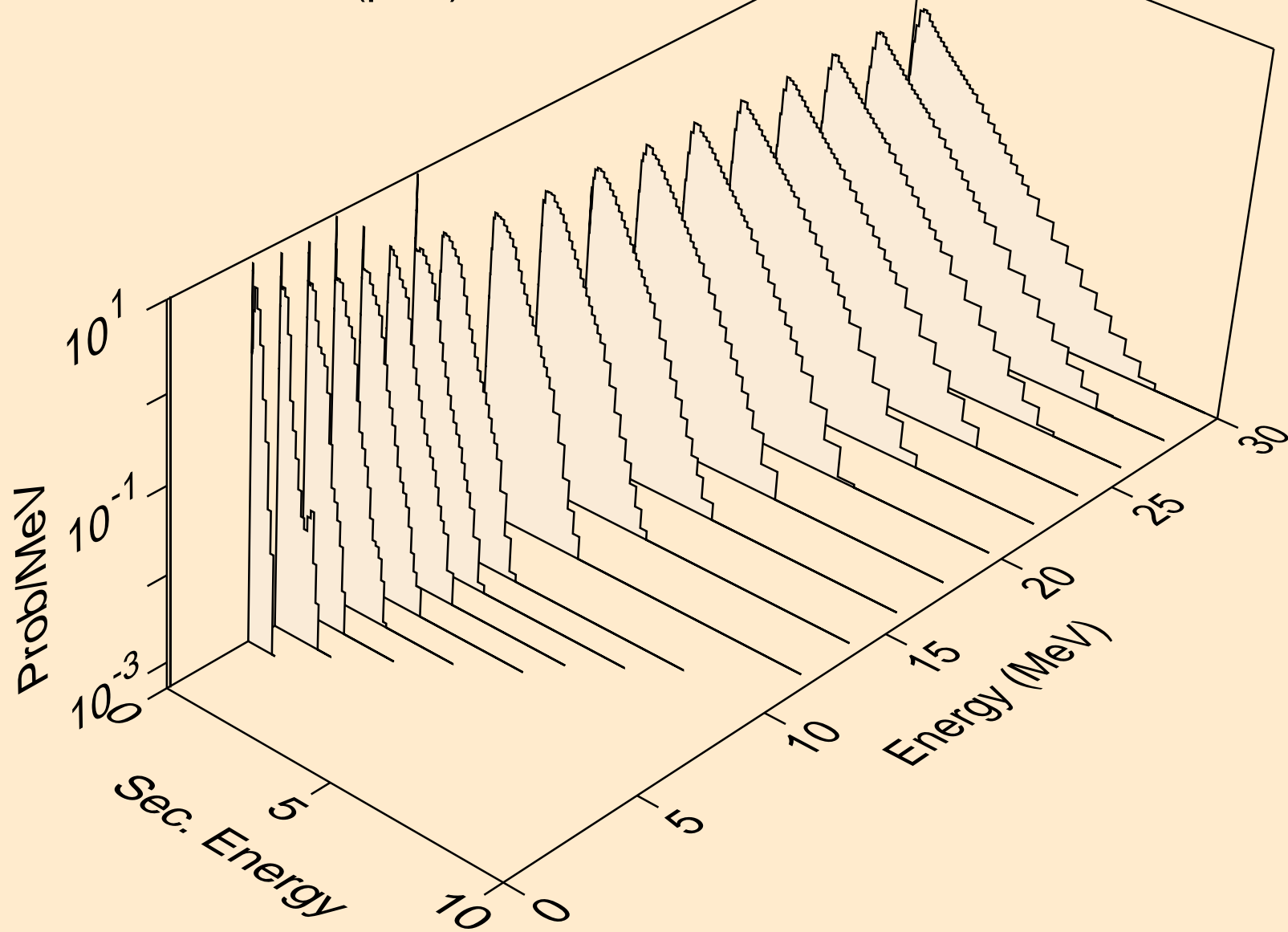
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neutrons from (p,2n)



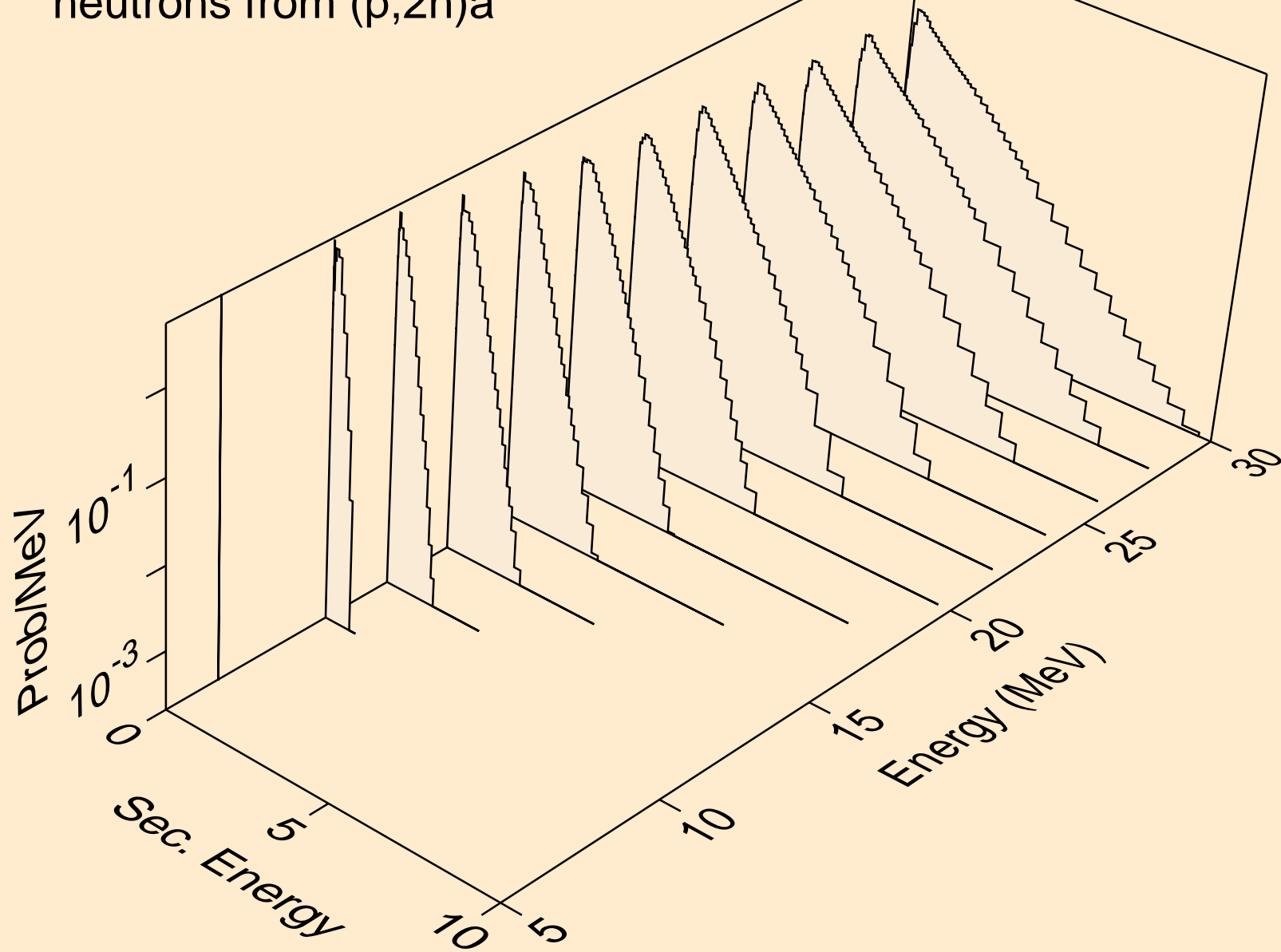
ZR099 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (p,3n)



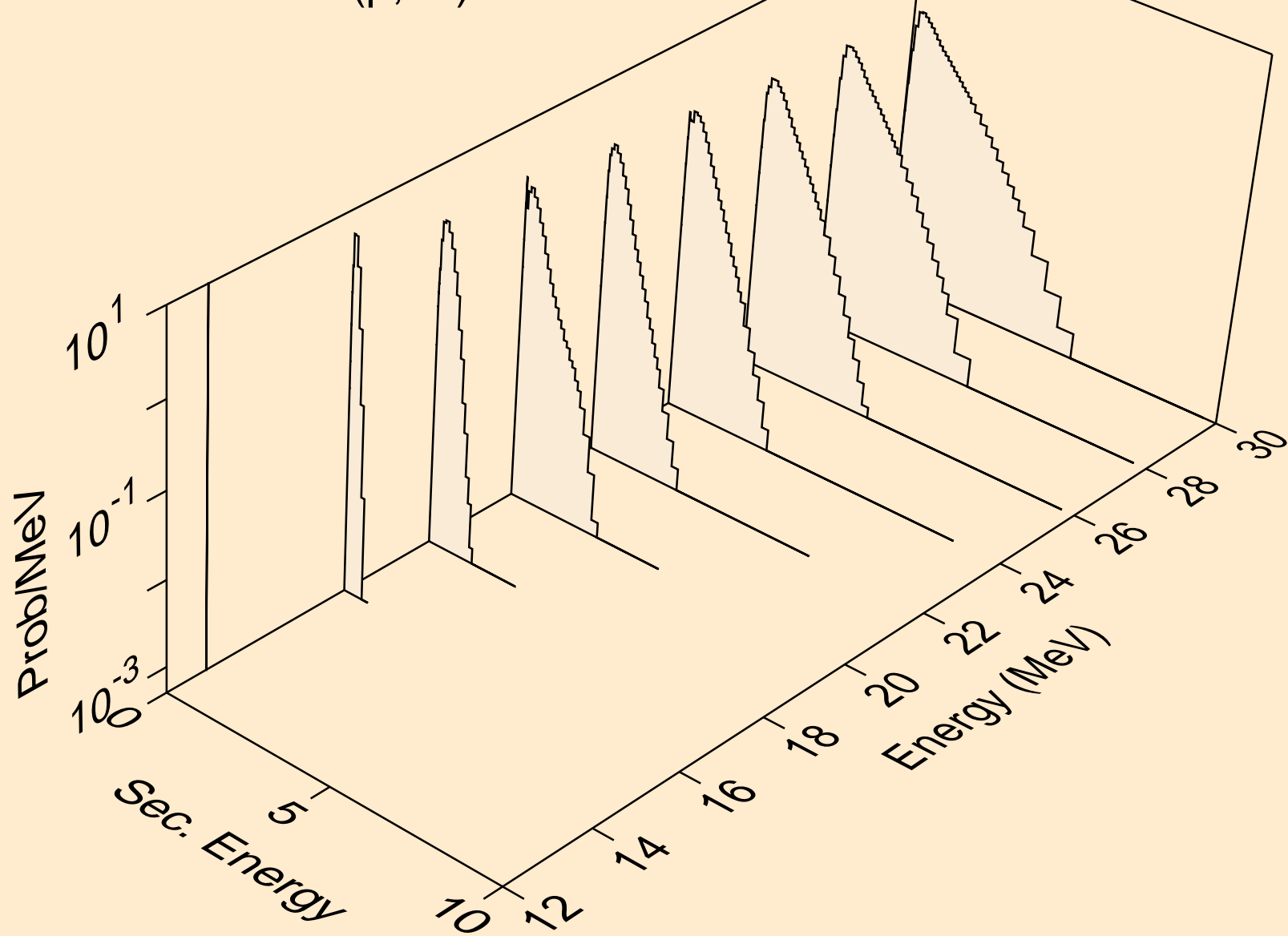
ZR099 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (p,n\*)a



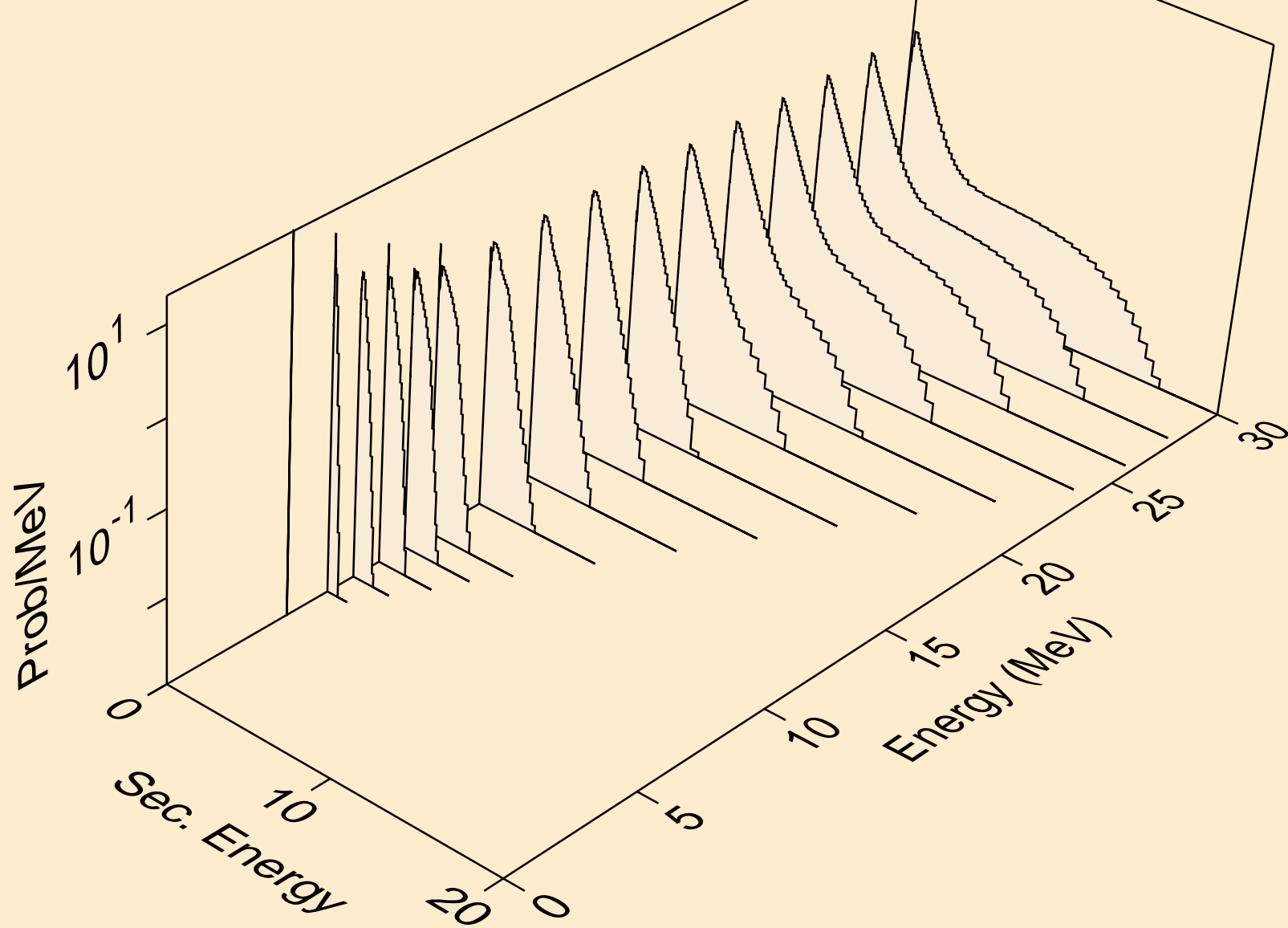
ZR099 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (p,2n)a



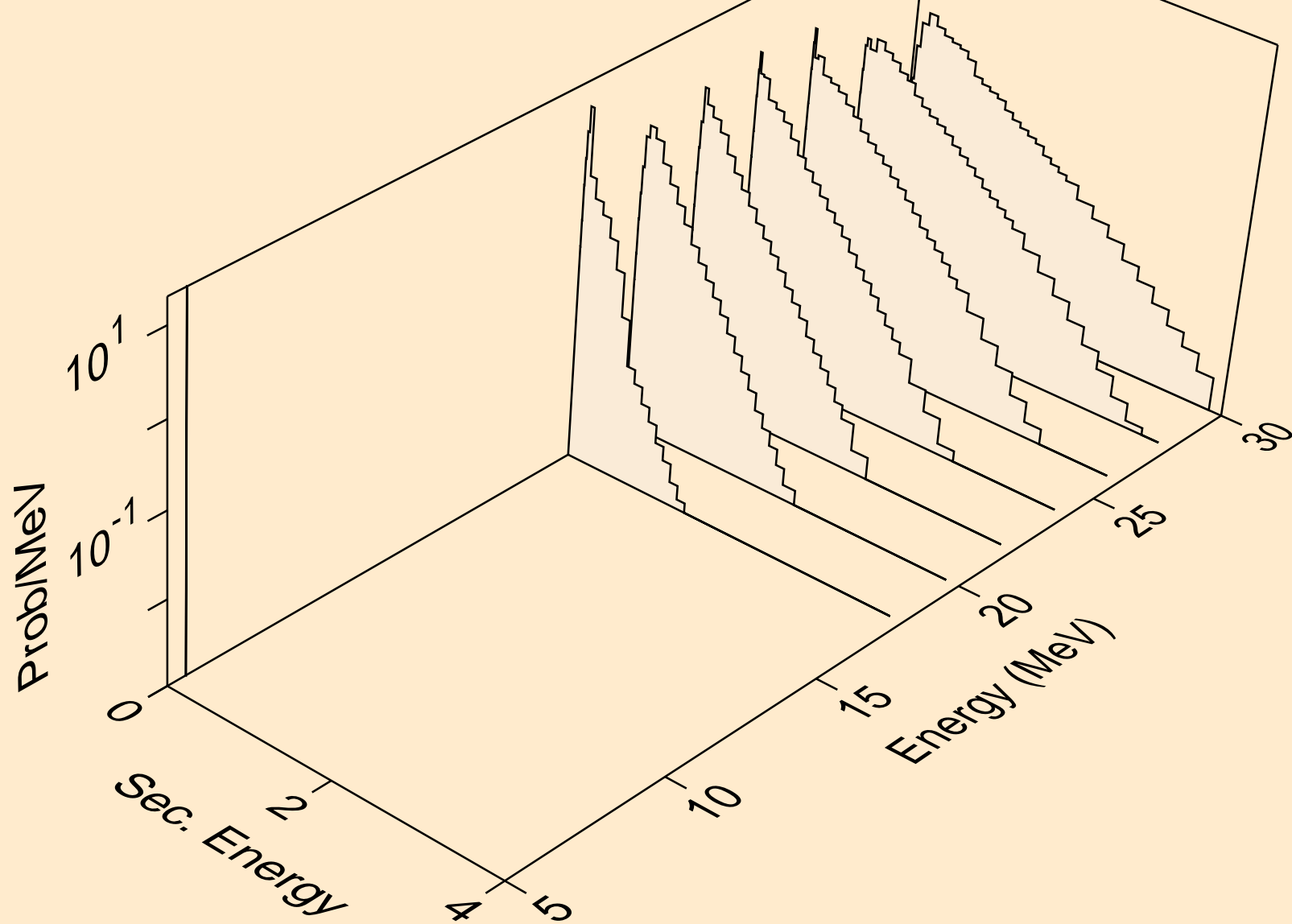
ZR099 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (p,3n)a



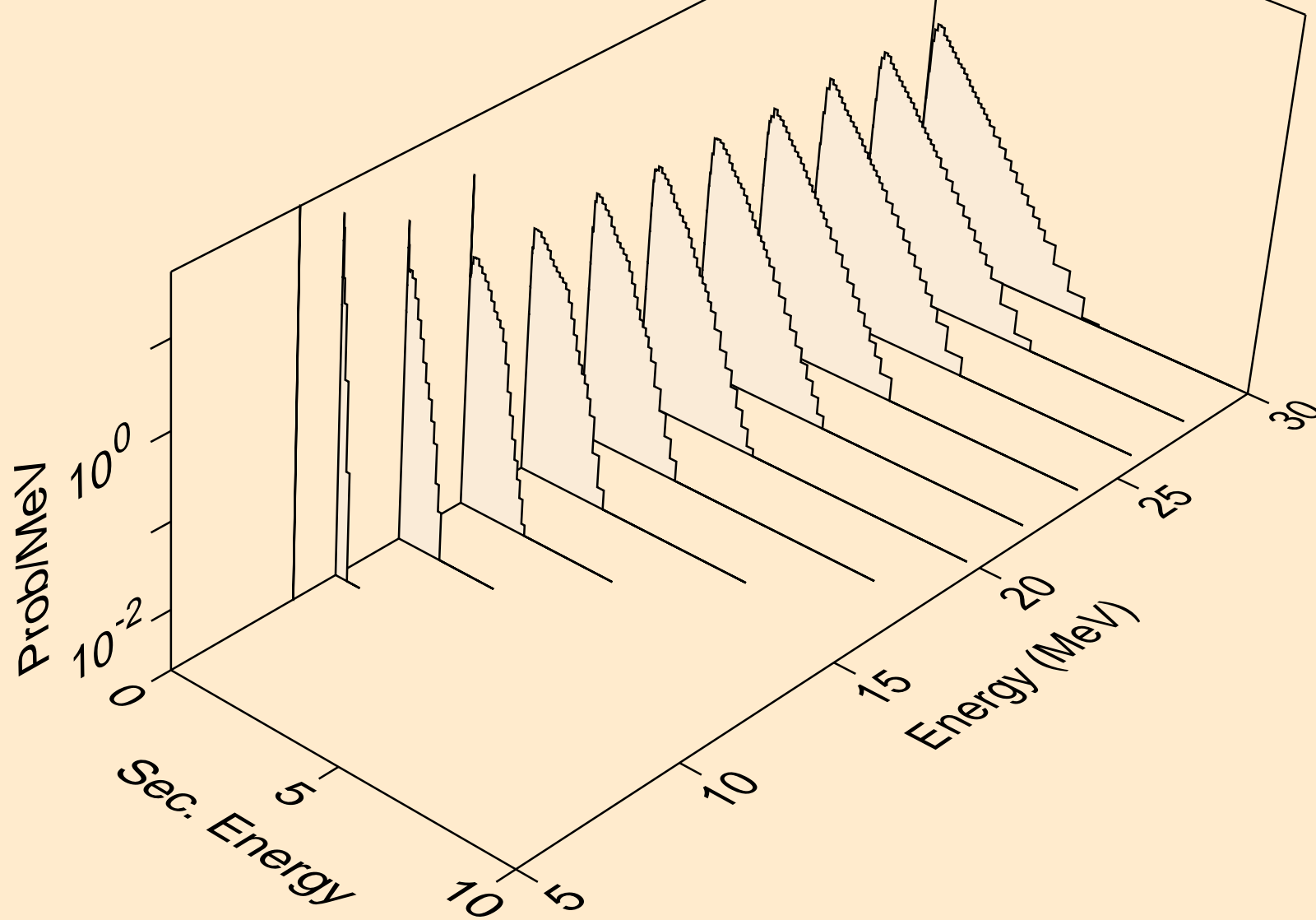
ZR099 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (p,n\*)p



ZR099 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (p,n\*)2a

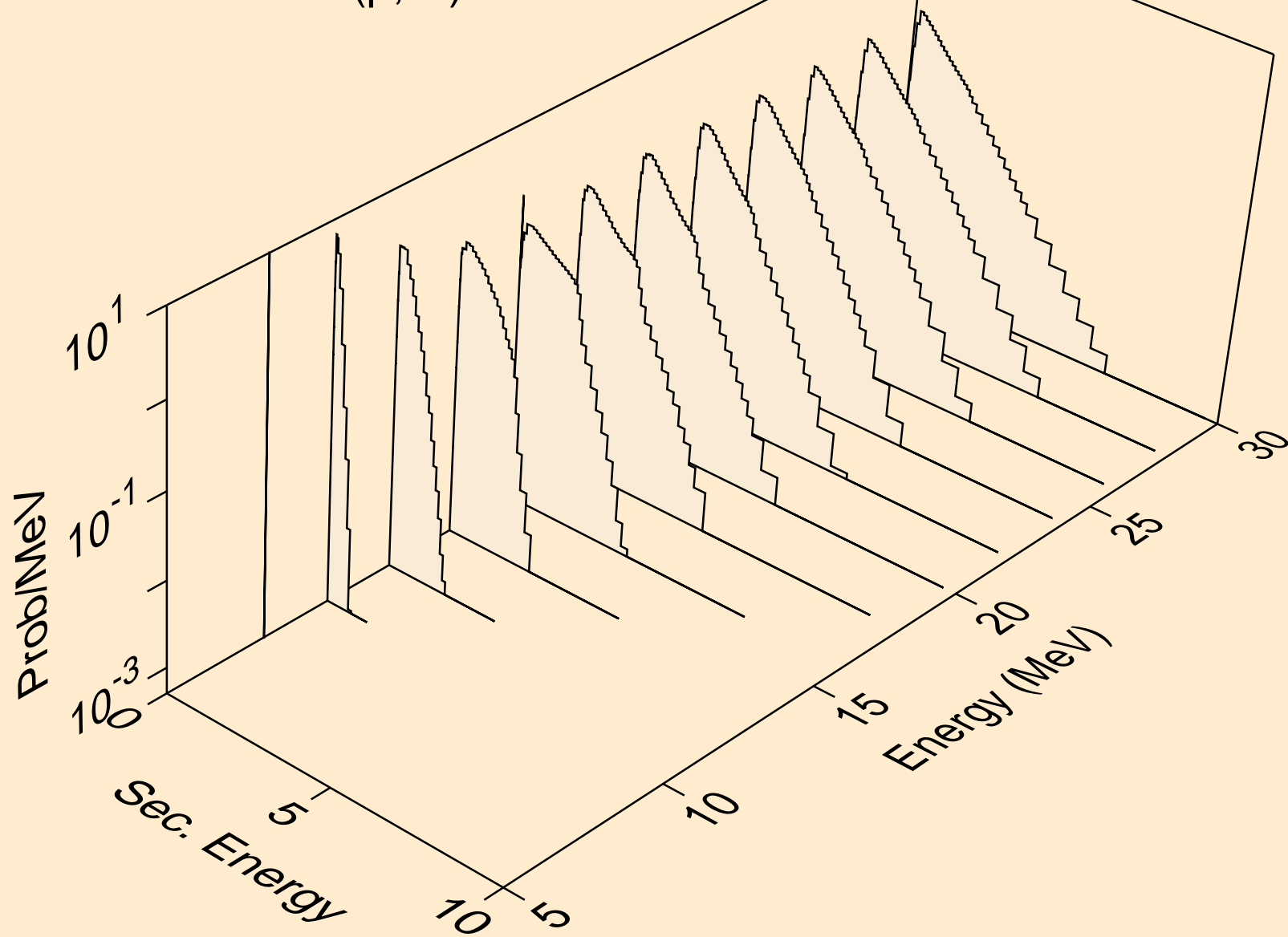


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neutrons from (p,n\*)d

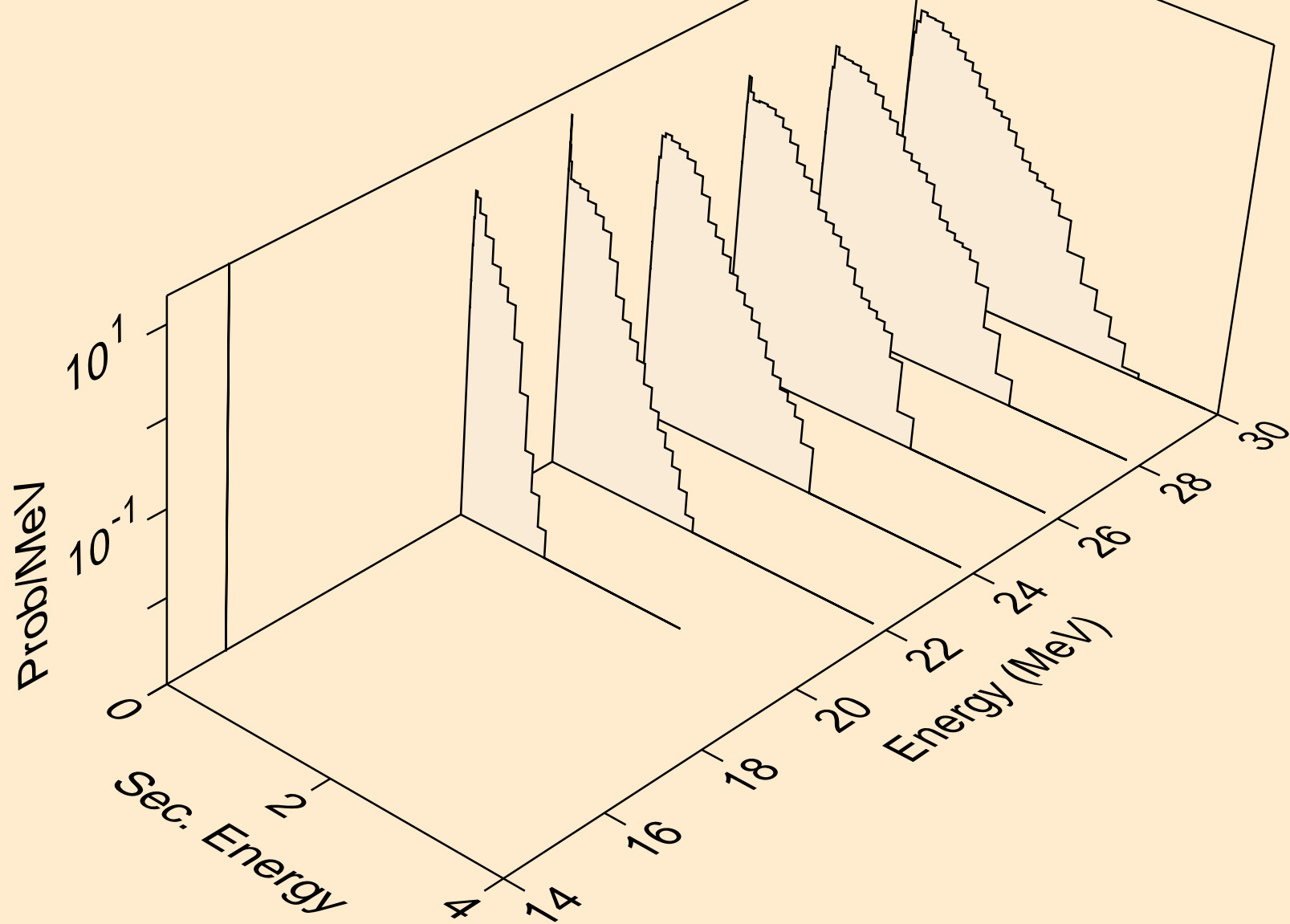




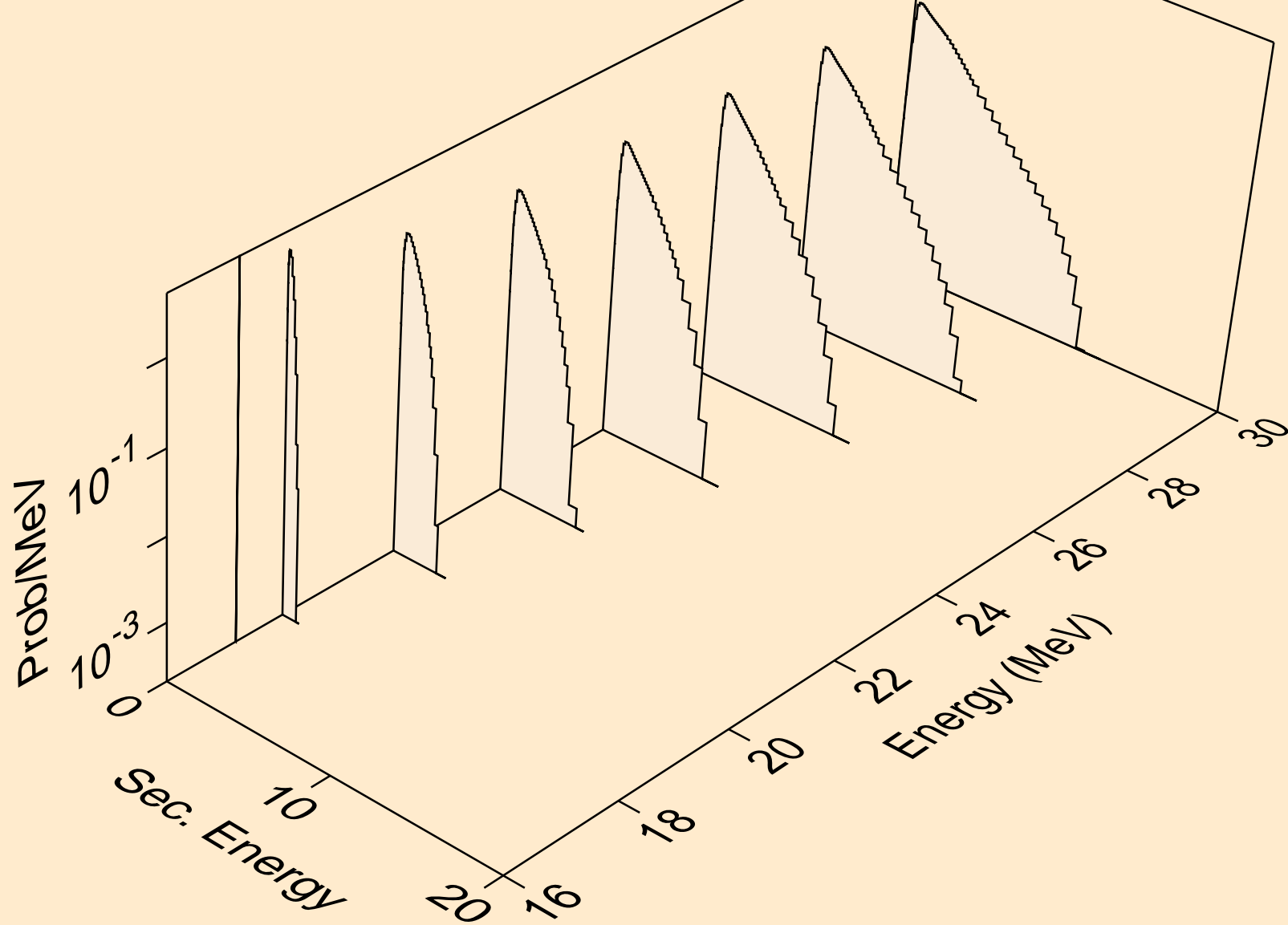
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neutrons from (p,n\*)t



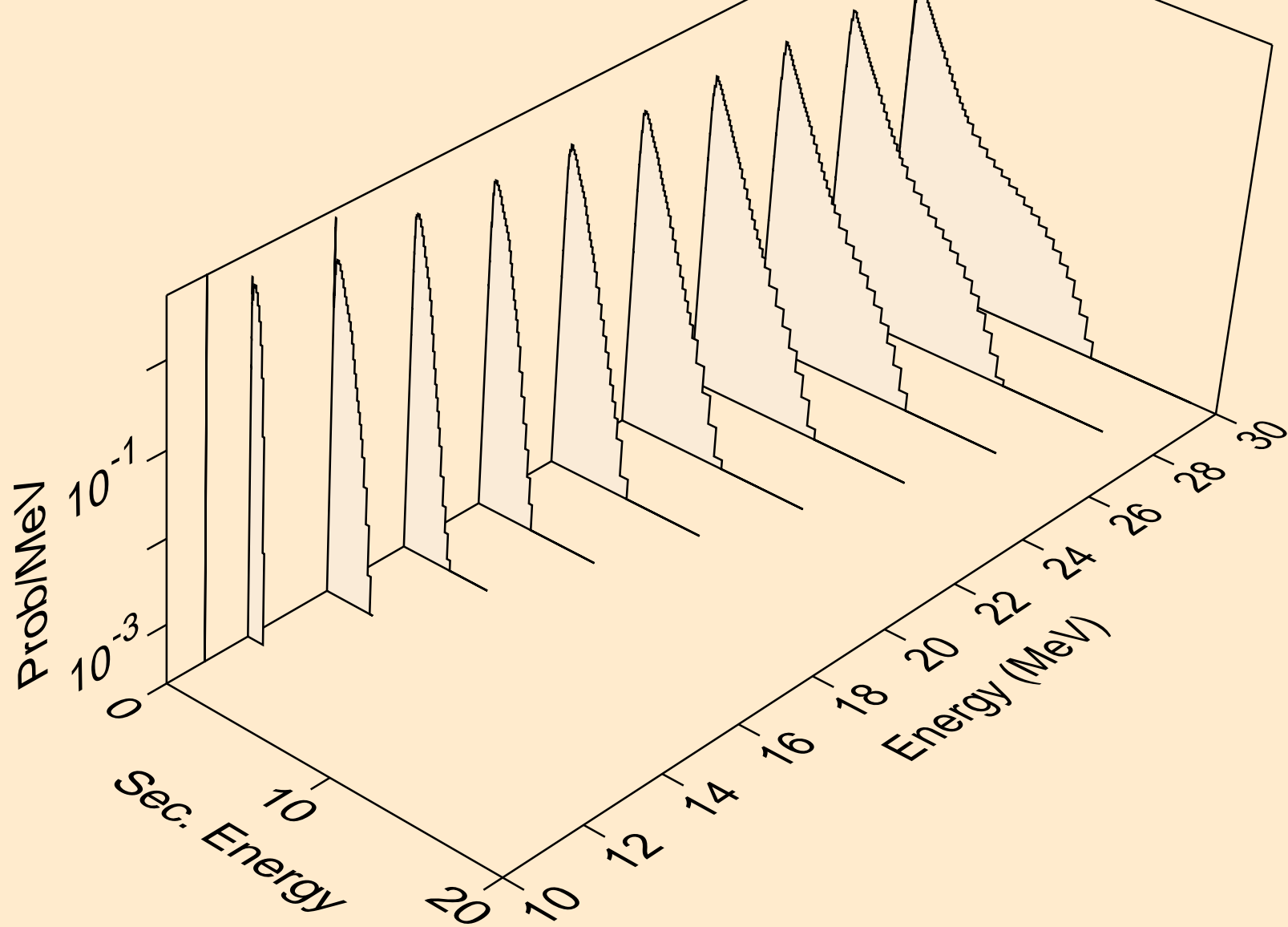
ZR099 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (p,n\*)he3



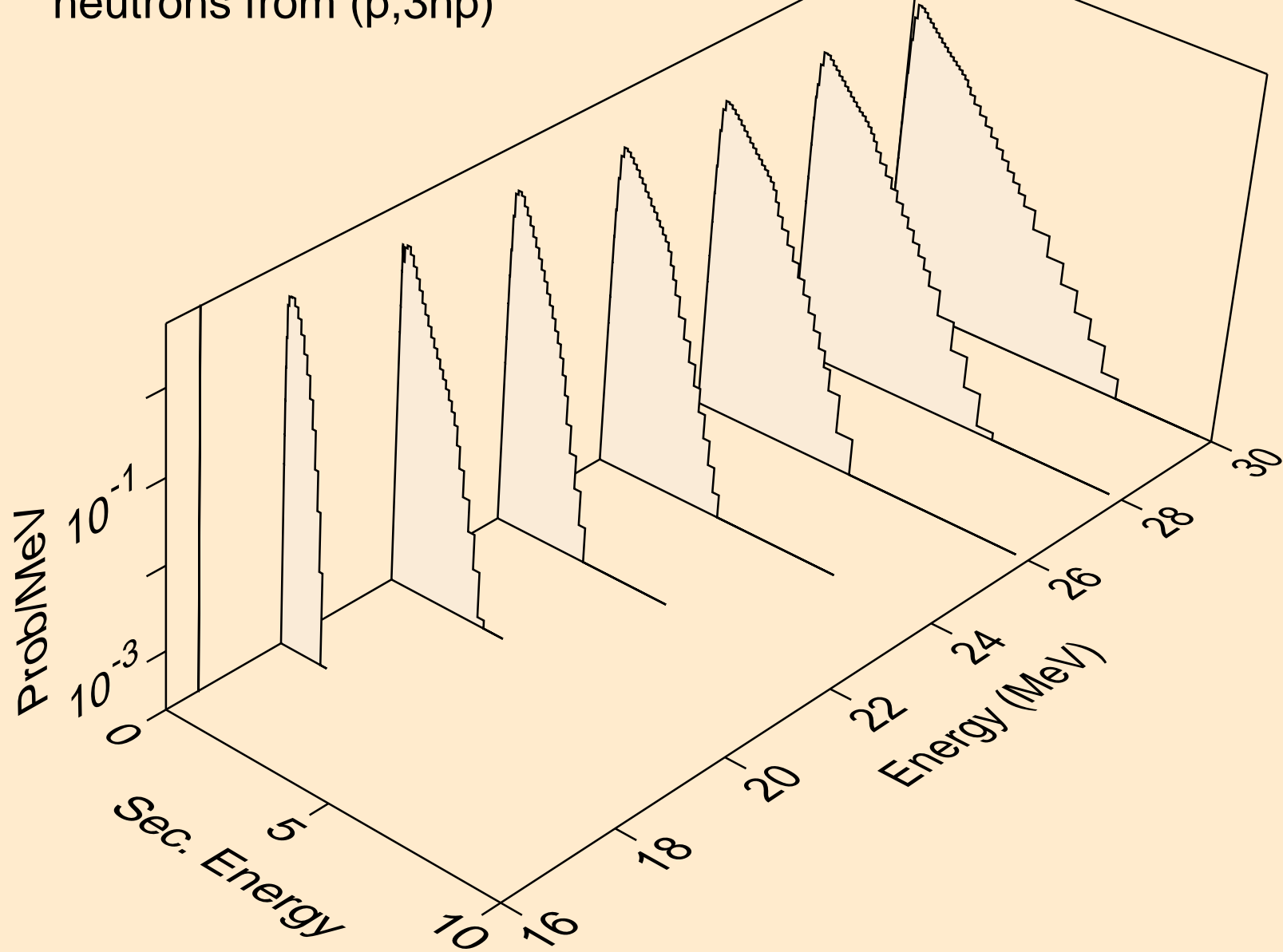
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neutrons from (p,4n)



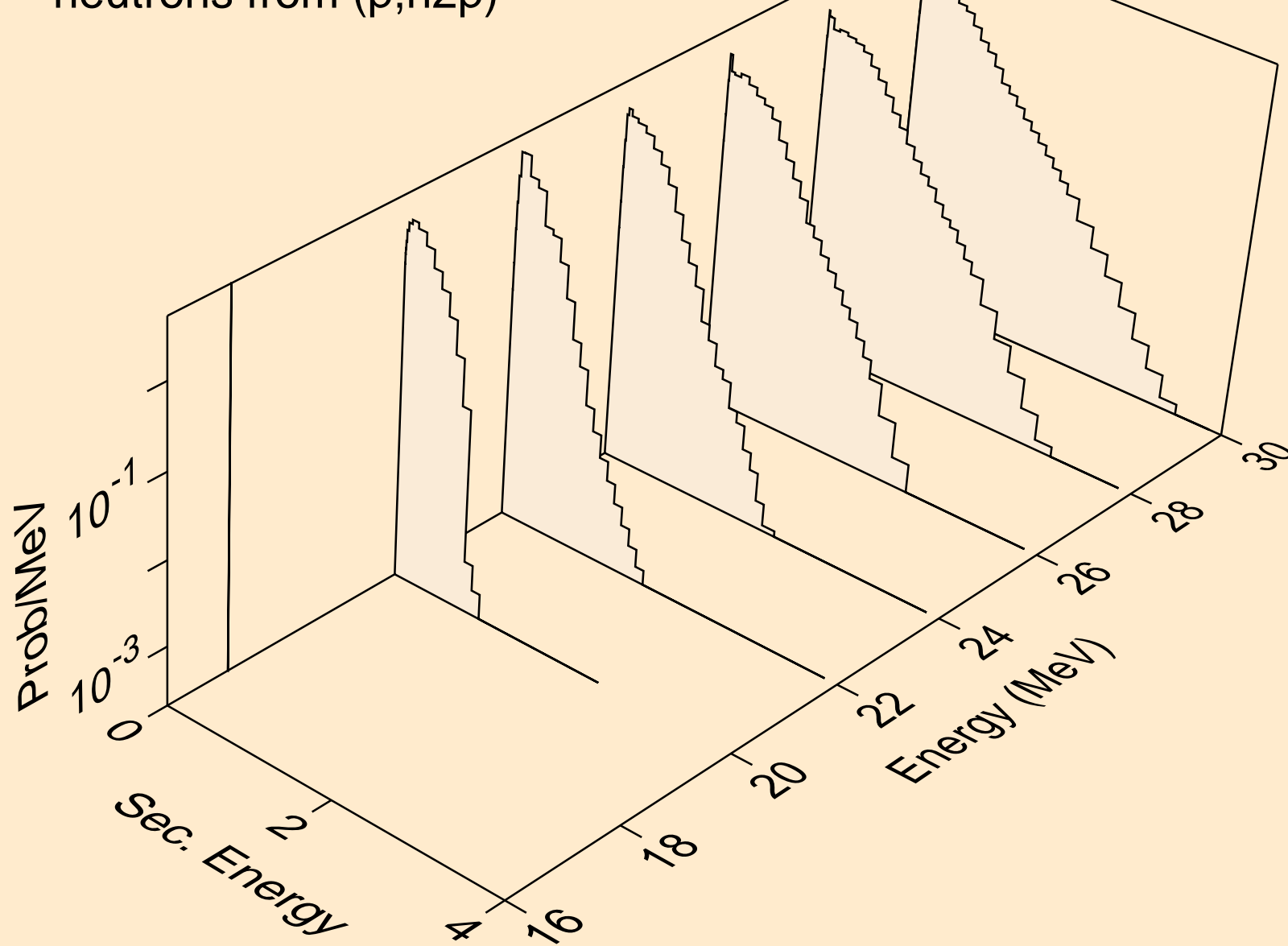
ZR099 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (p,2np)



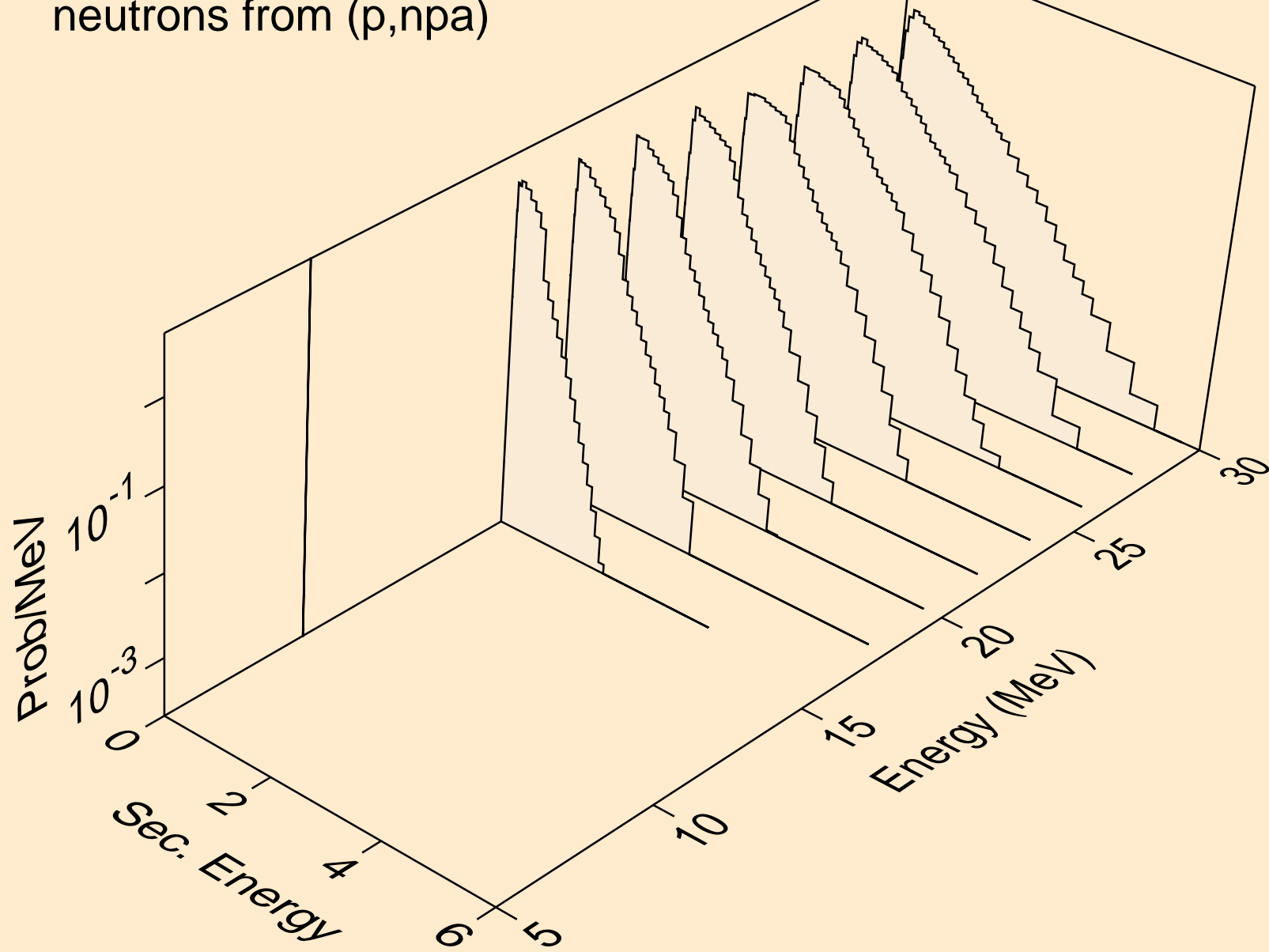
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neutrons from (p,3np)



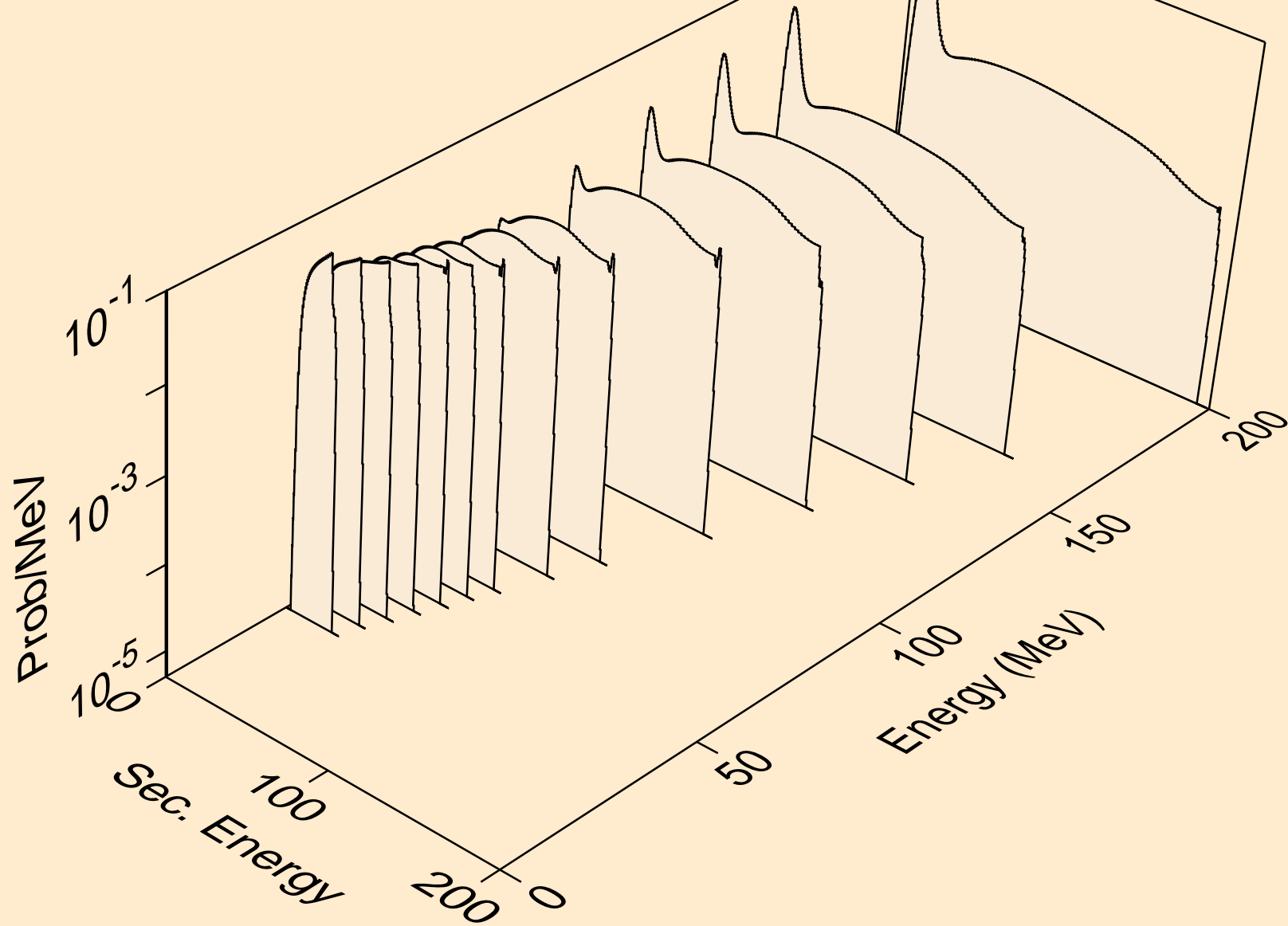
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neutrons from (p,n2p)



ZR099 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (p,npa)

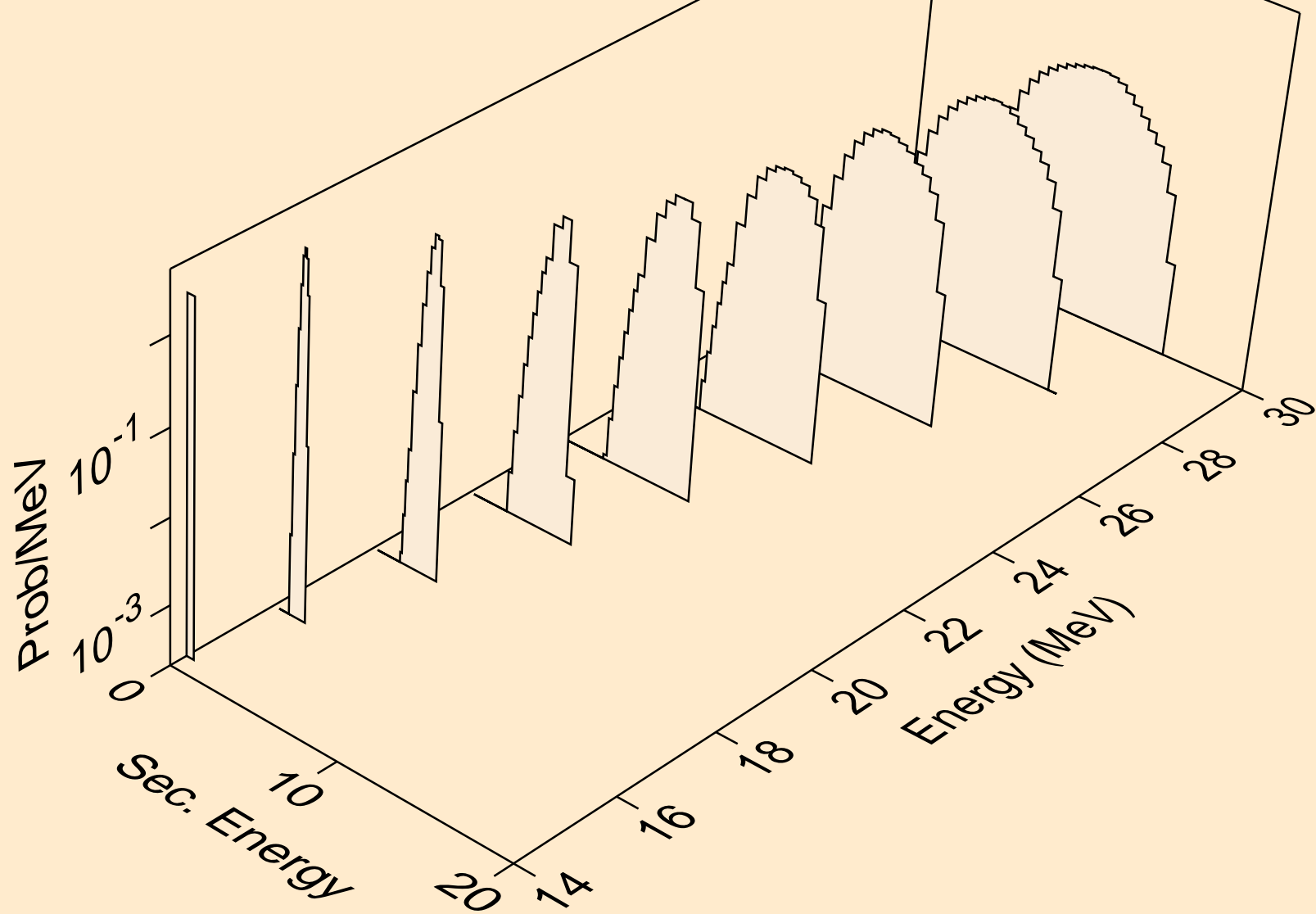


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deuterons from (p,x)

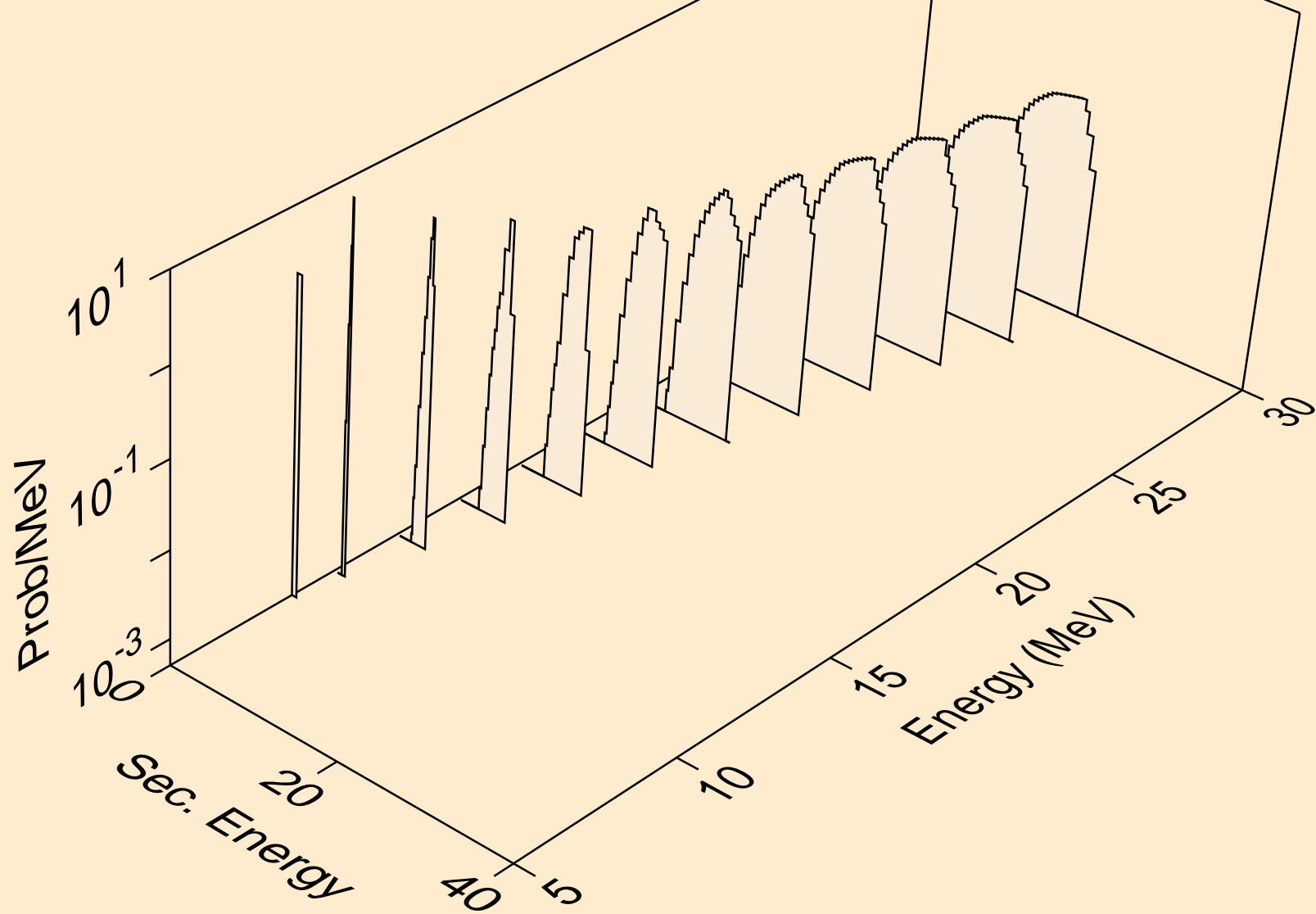




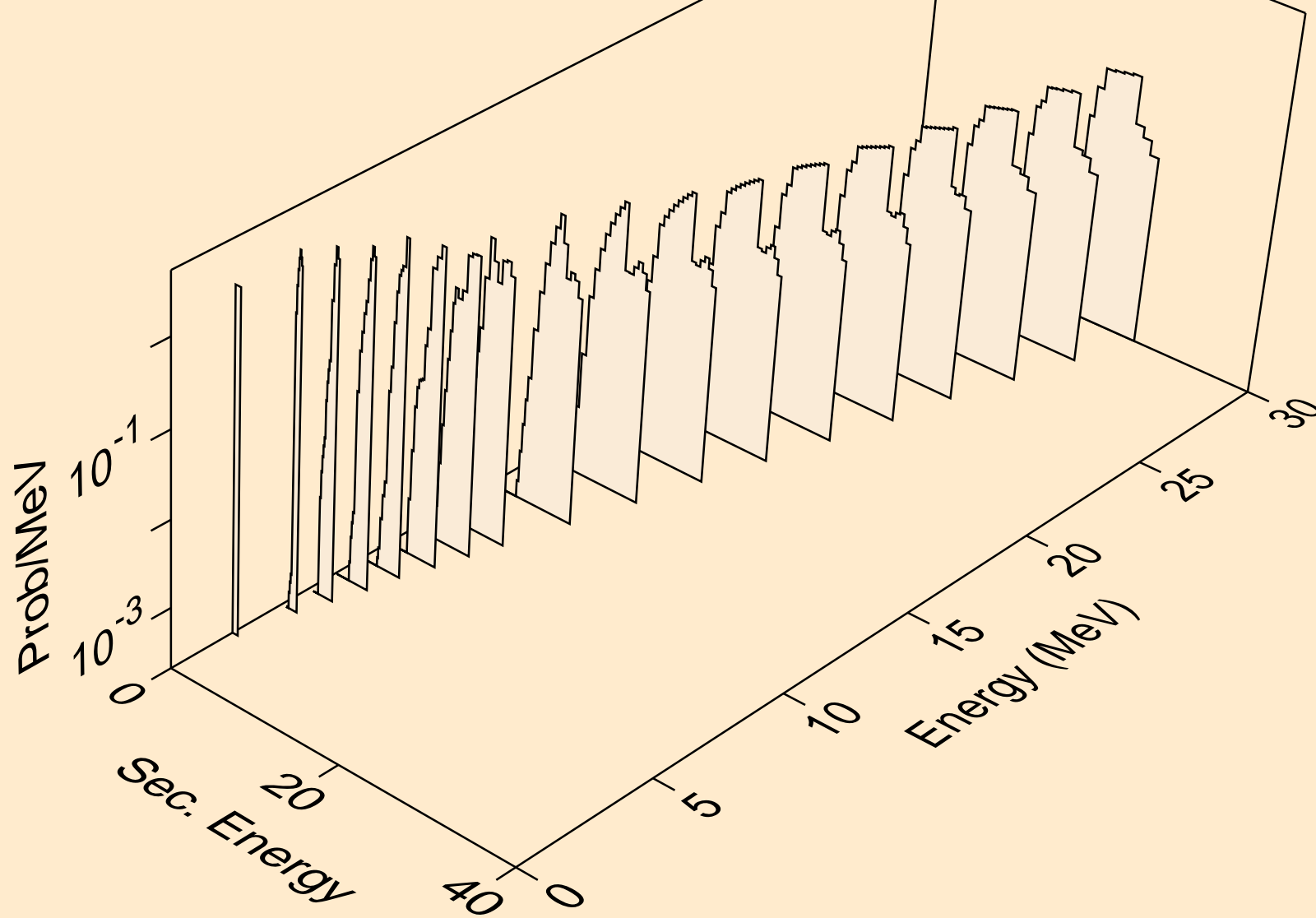
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deuterons from (p,2nd)



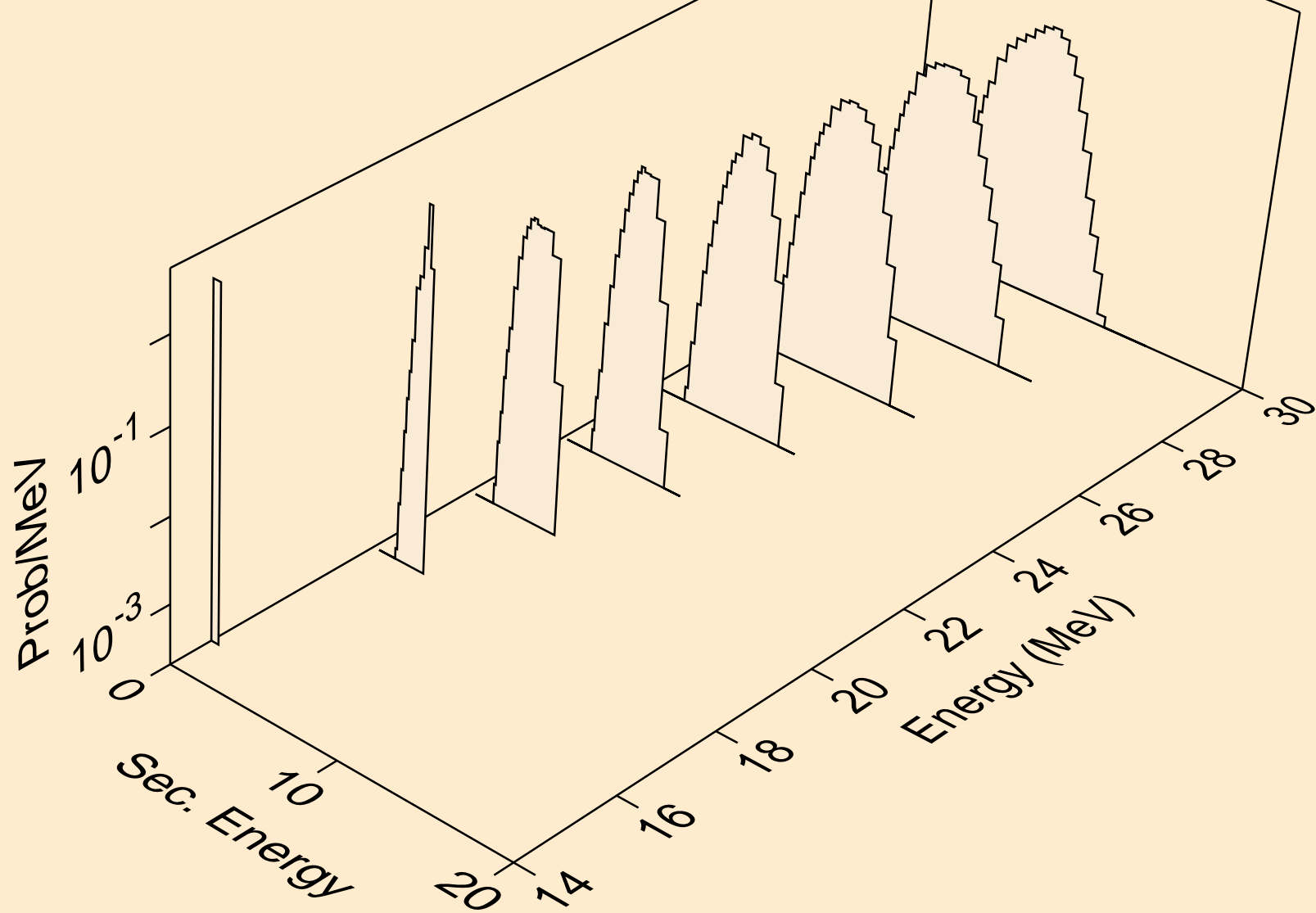
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deuterons from (p,n\*)d



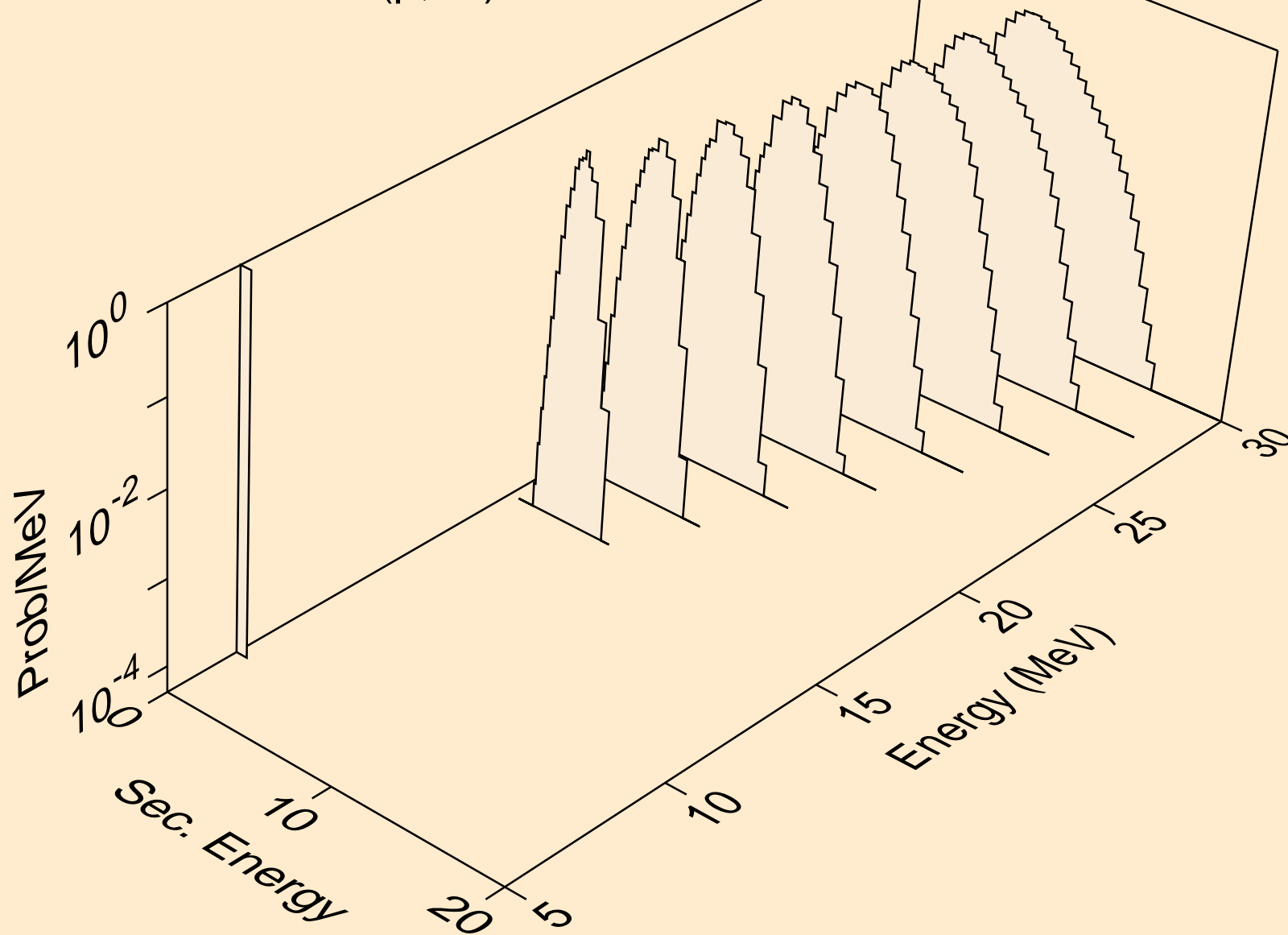
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deuterons from (p,d)



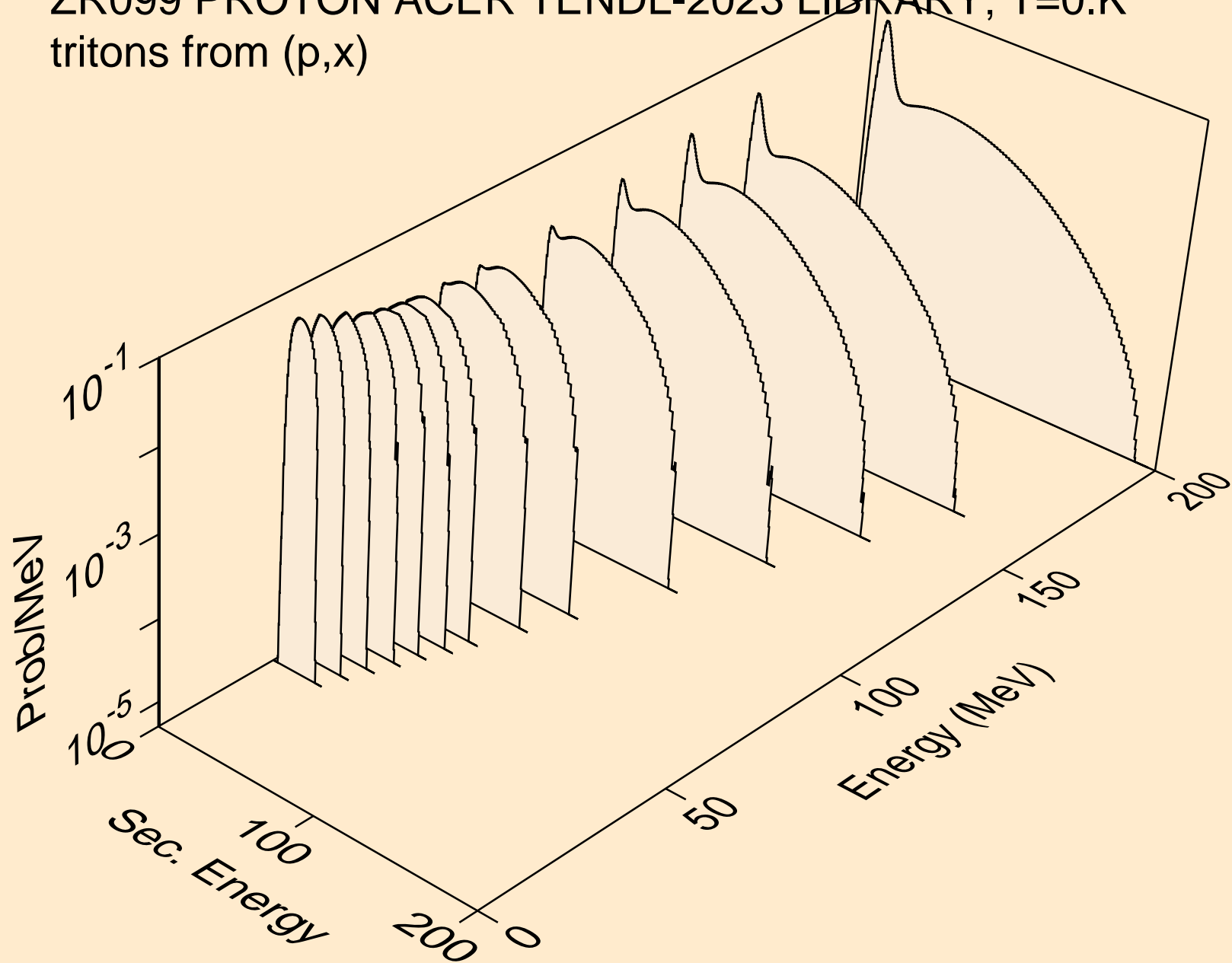
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deuterons from (p,pd)



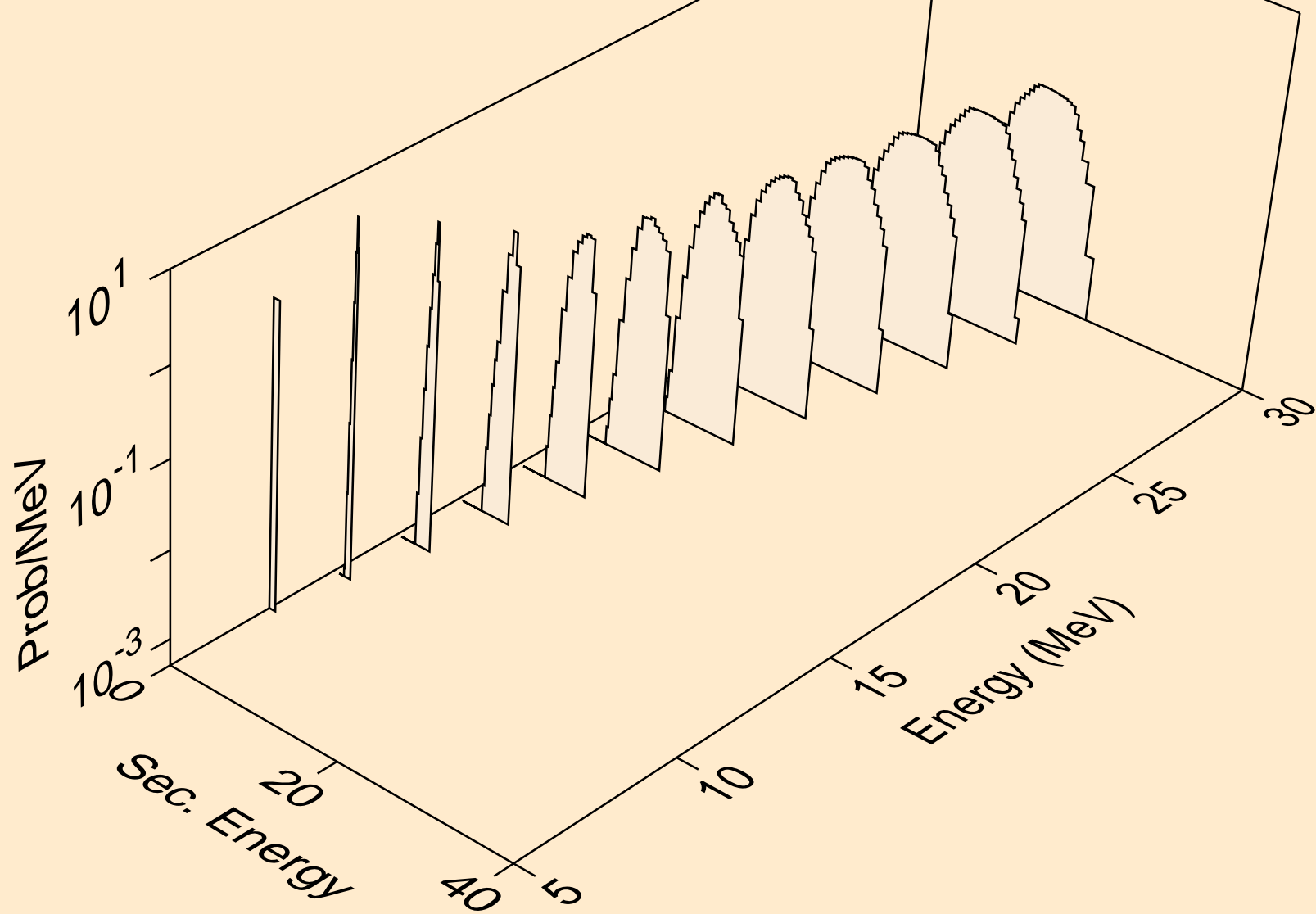
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deuterons from (p,da)



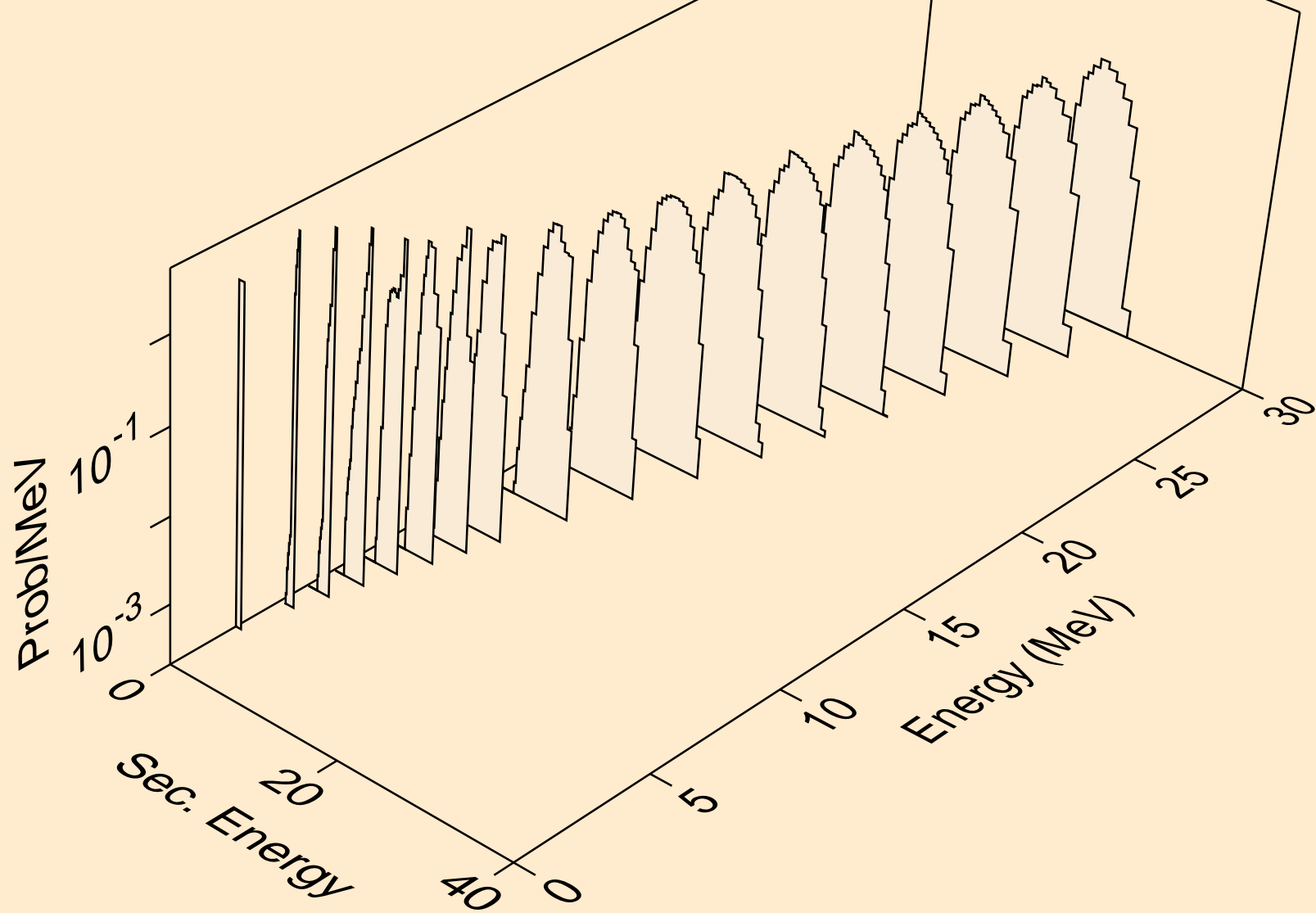
ZR099 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
tritons from (p,x)



ZR099 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
tritons from (p,n\*)t

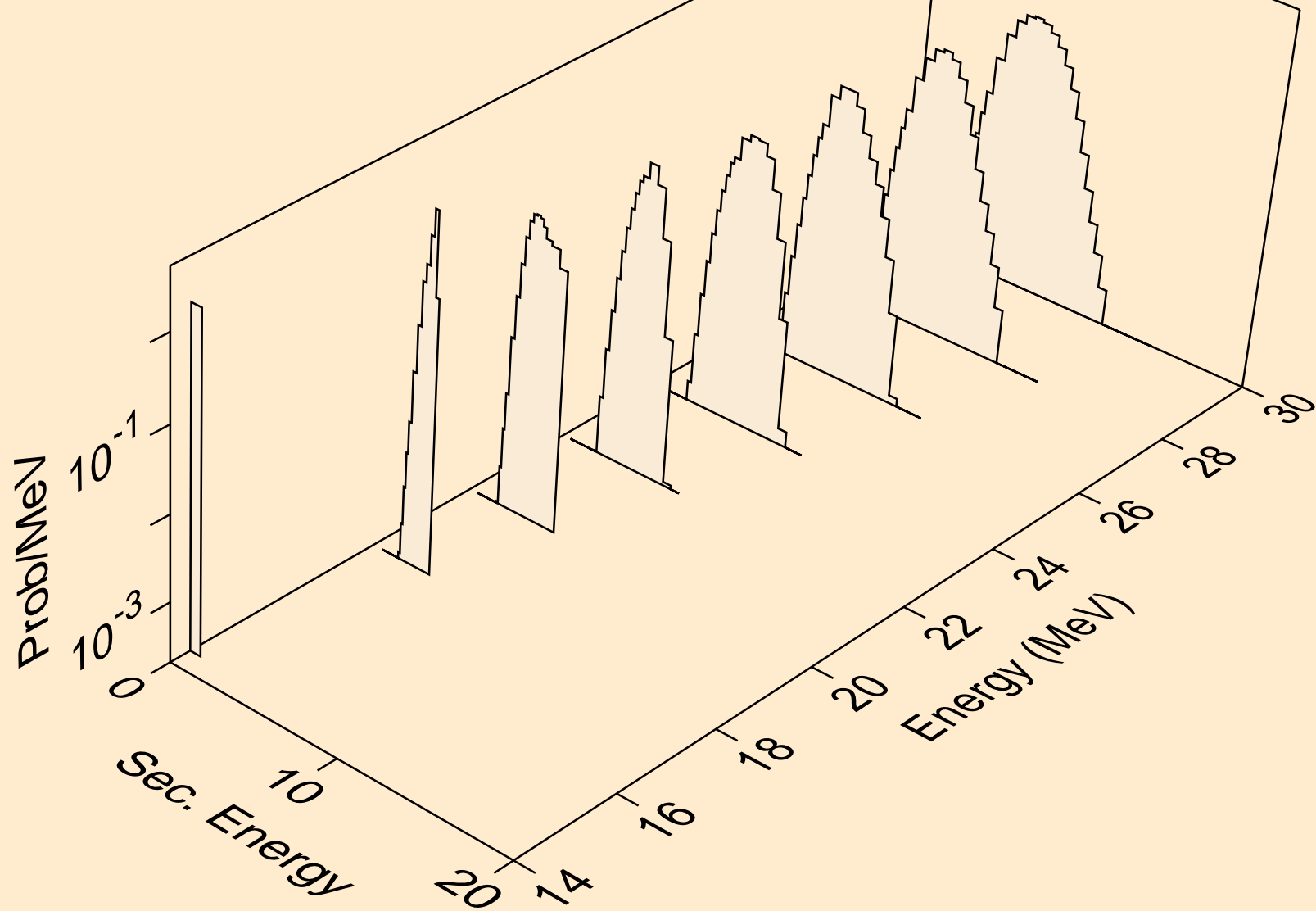


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tritons from (p,t)

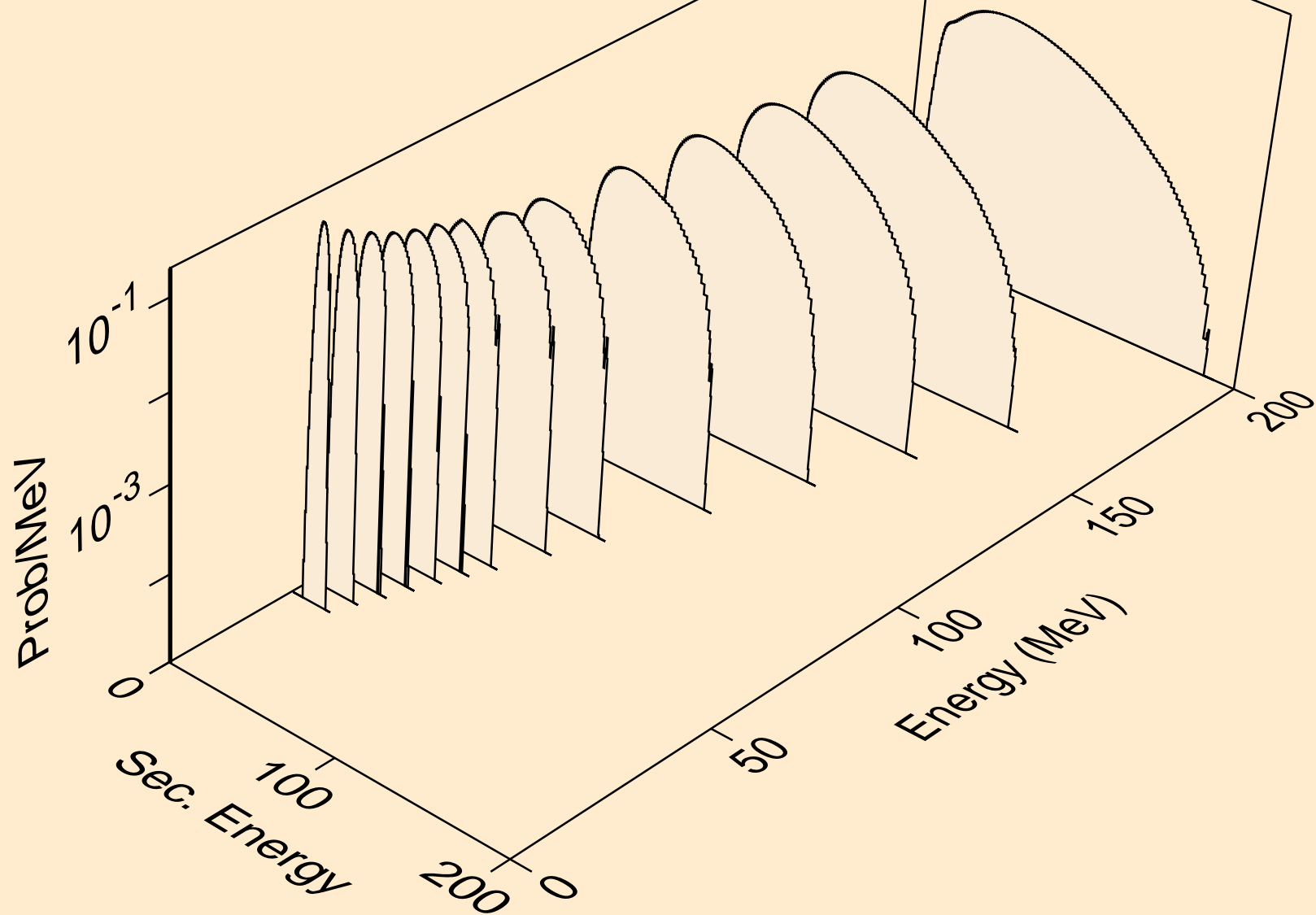




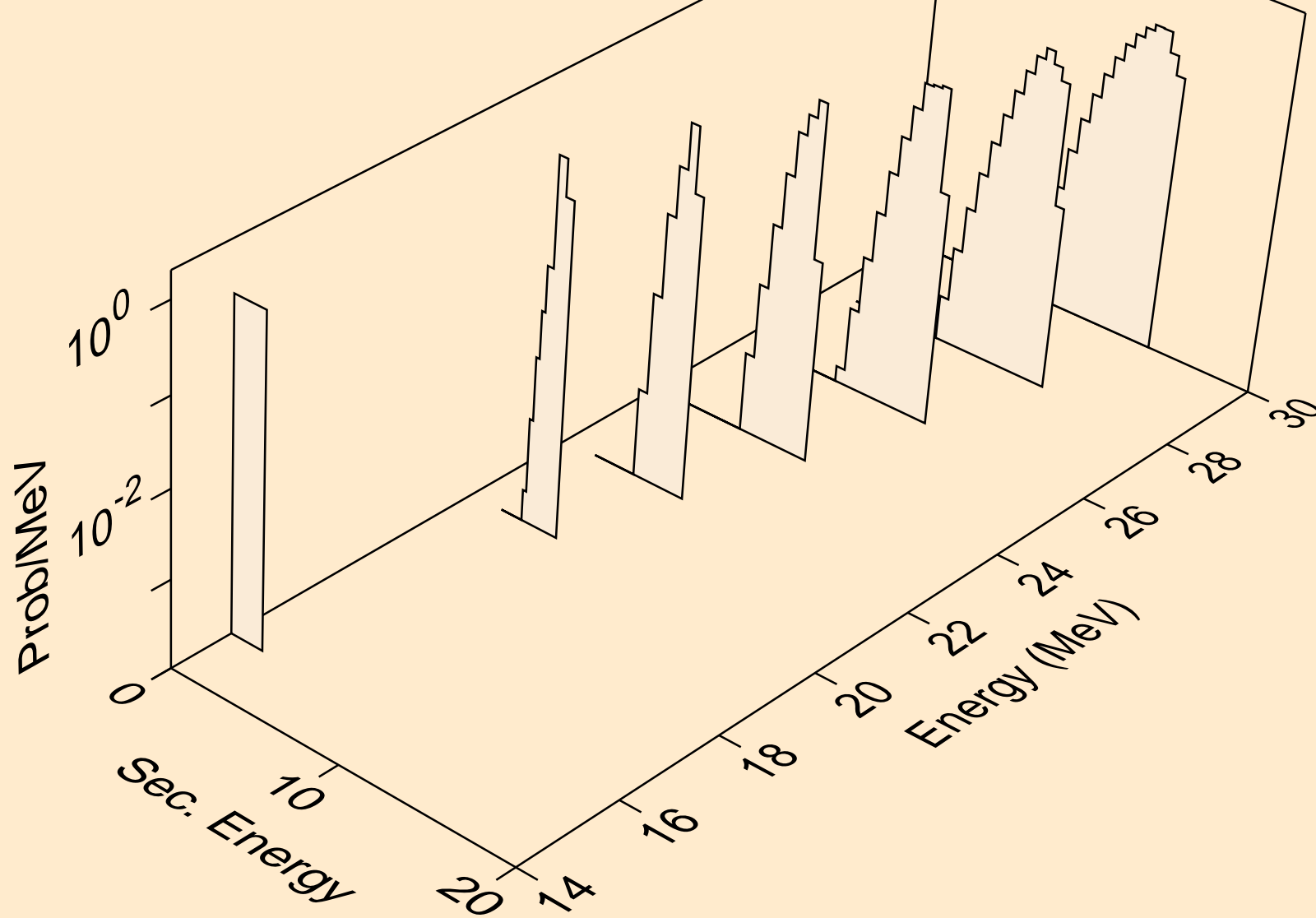
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tritons from (p,pt)



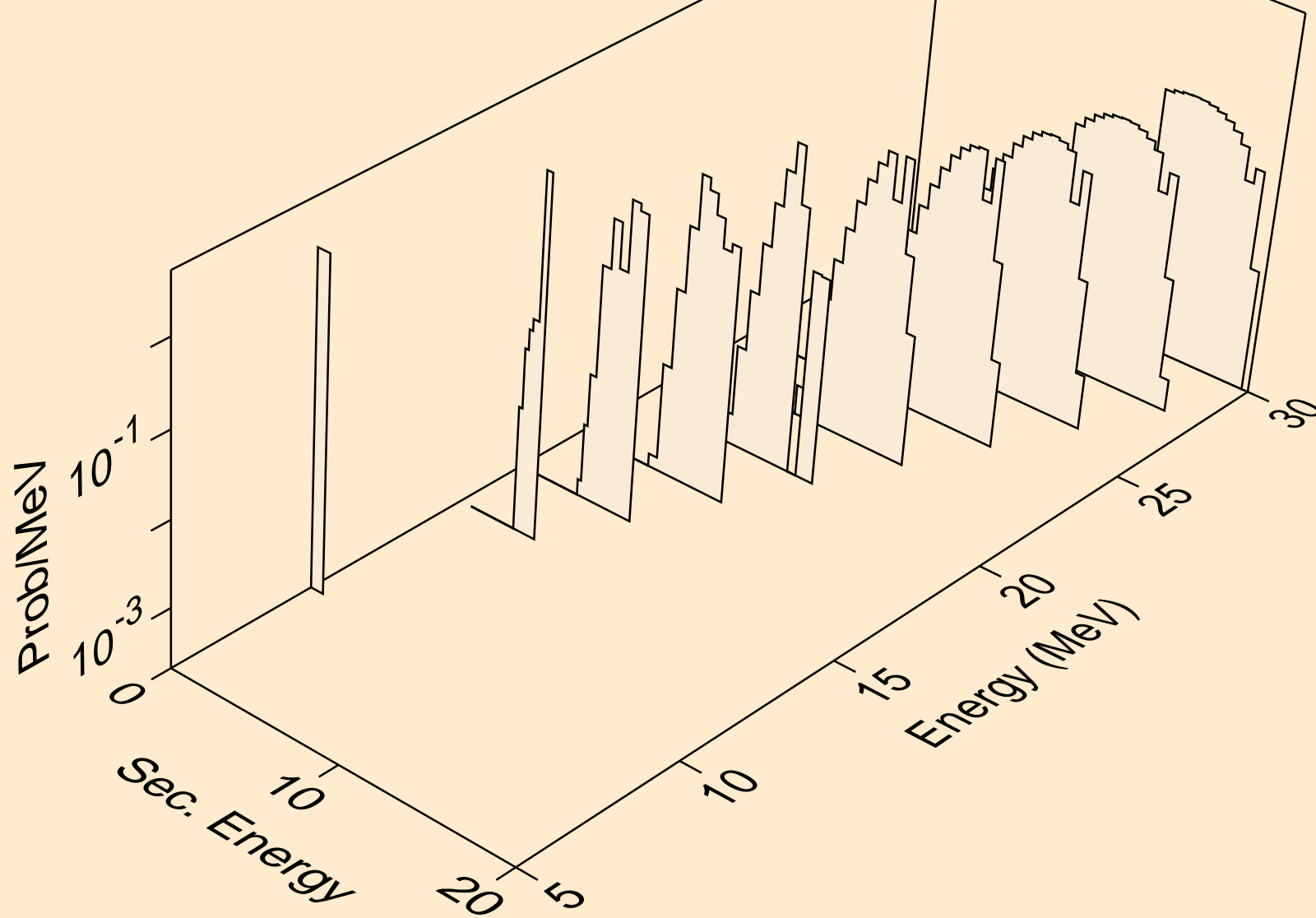
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he3s from (p,x)



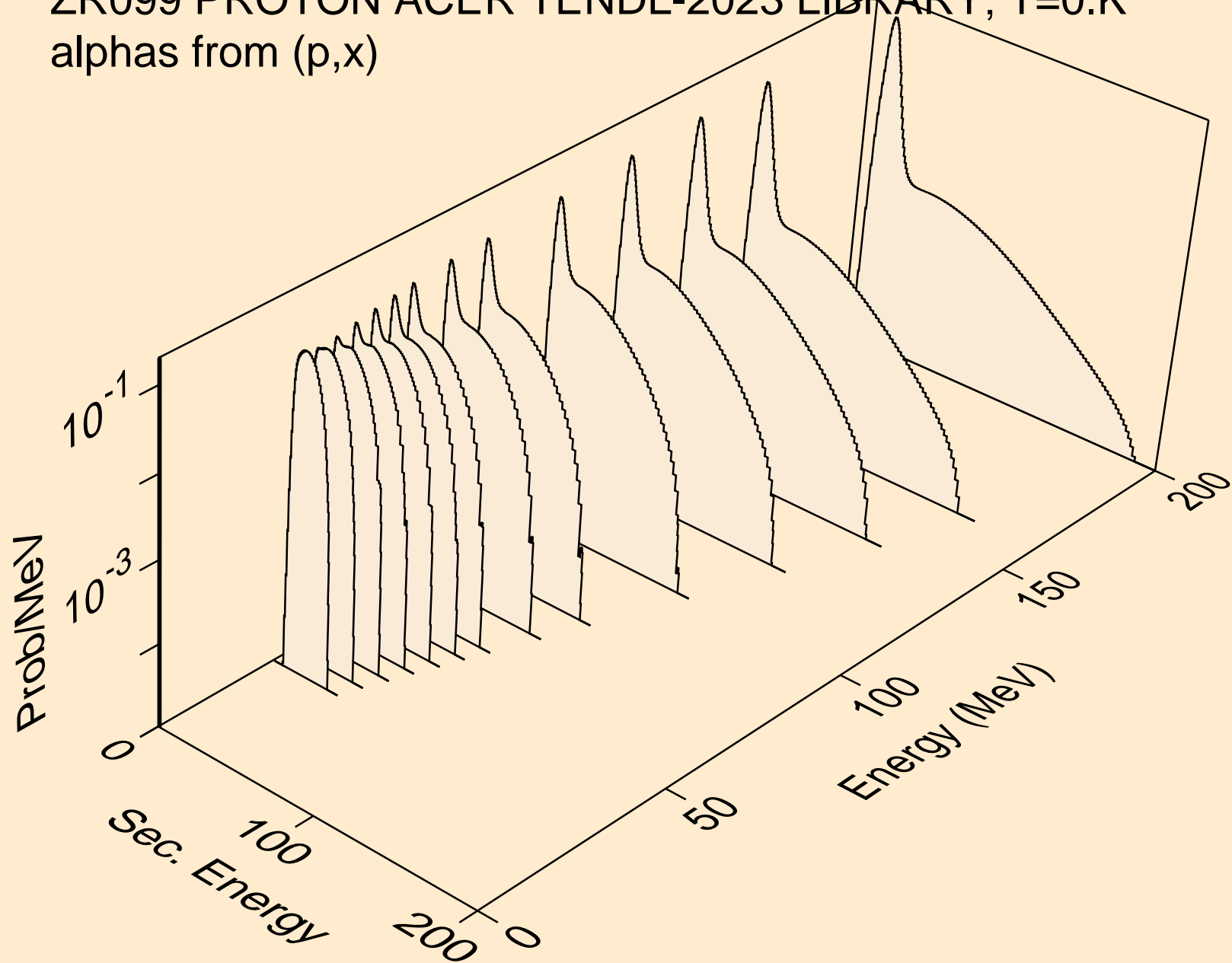
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he3s from (p,n\*)he3



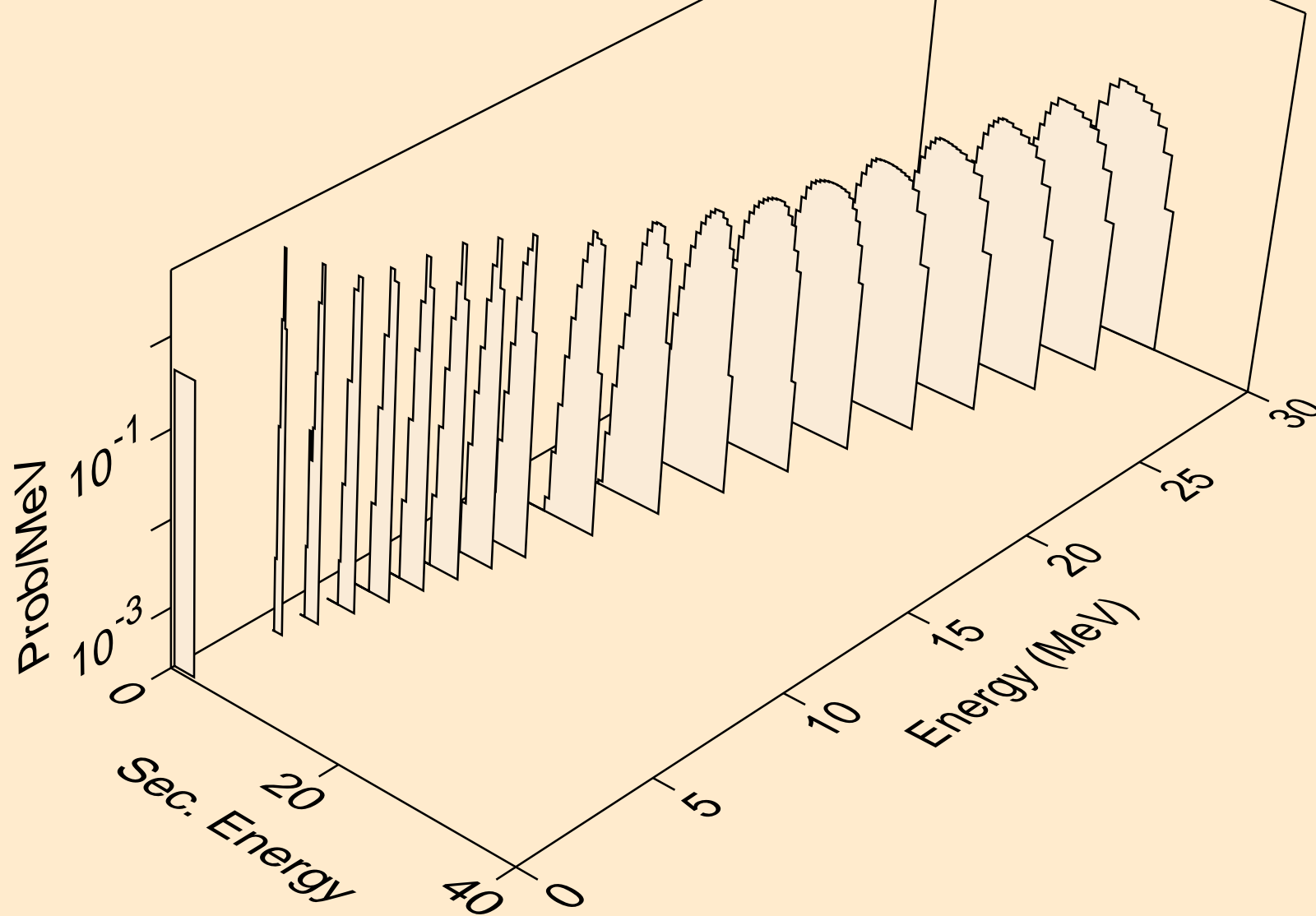
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he3s from (p,he3)



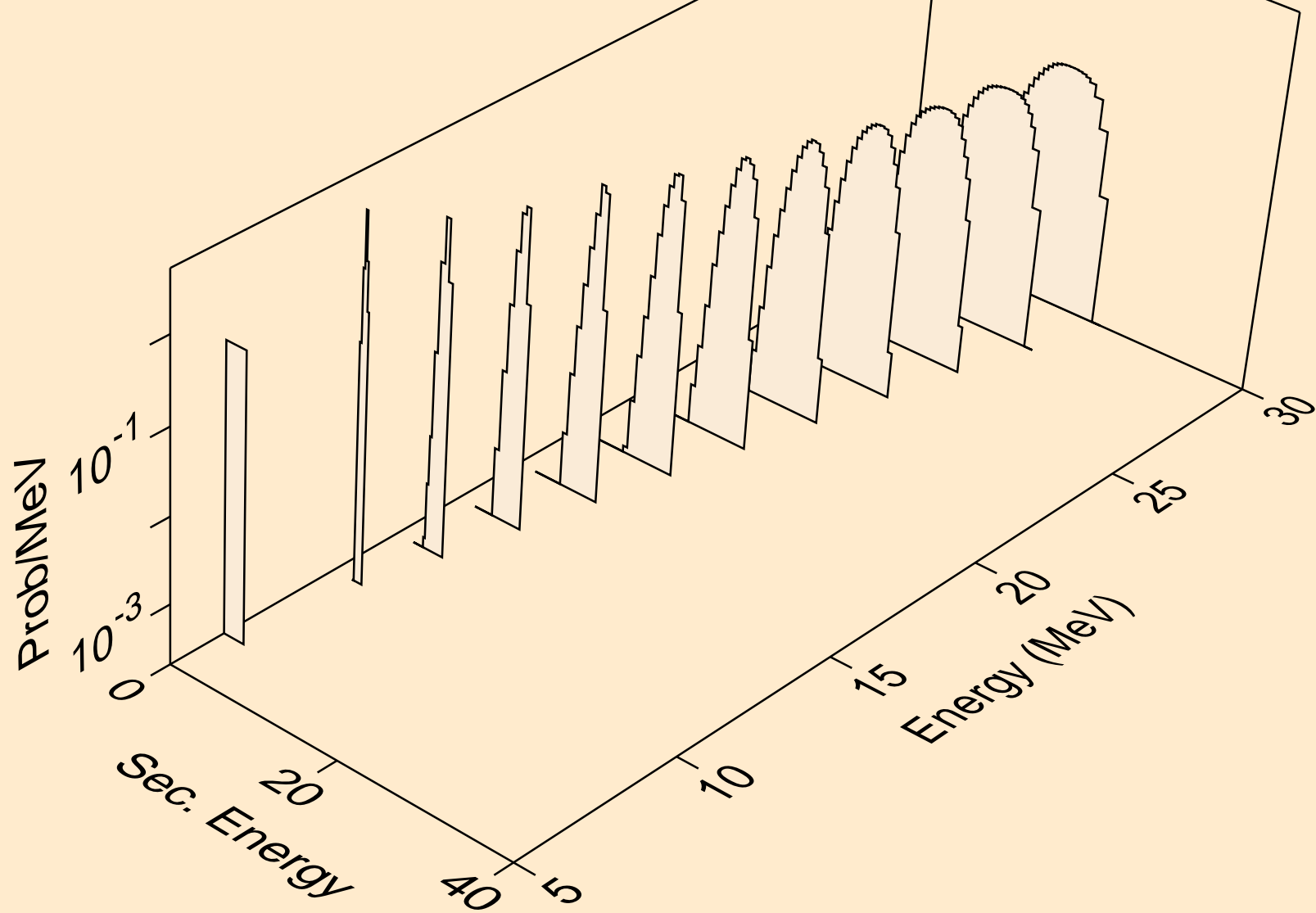
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alphas from (p,x)



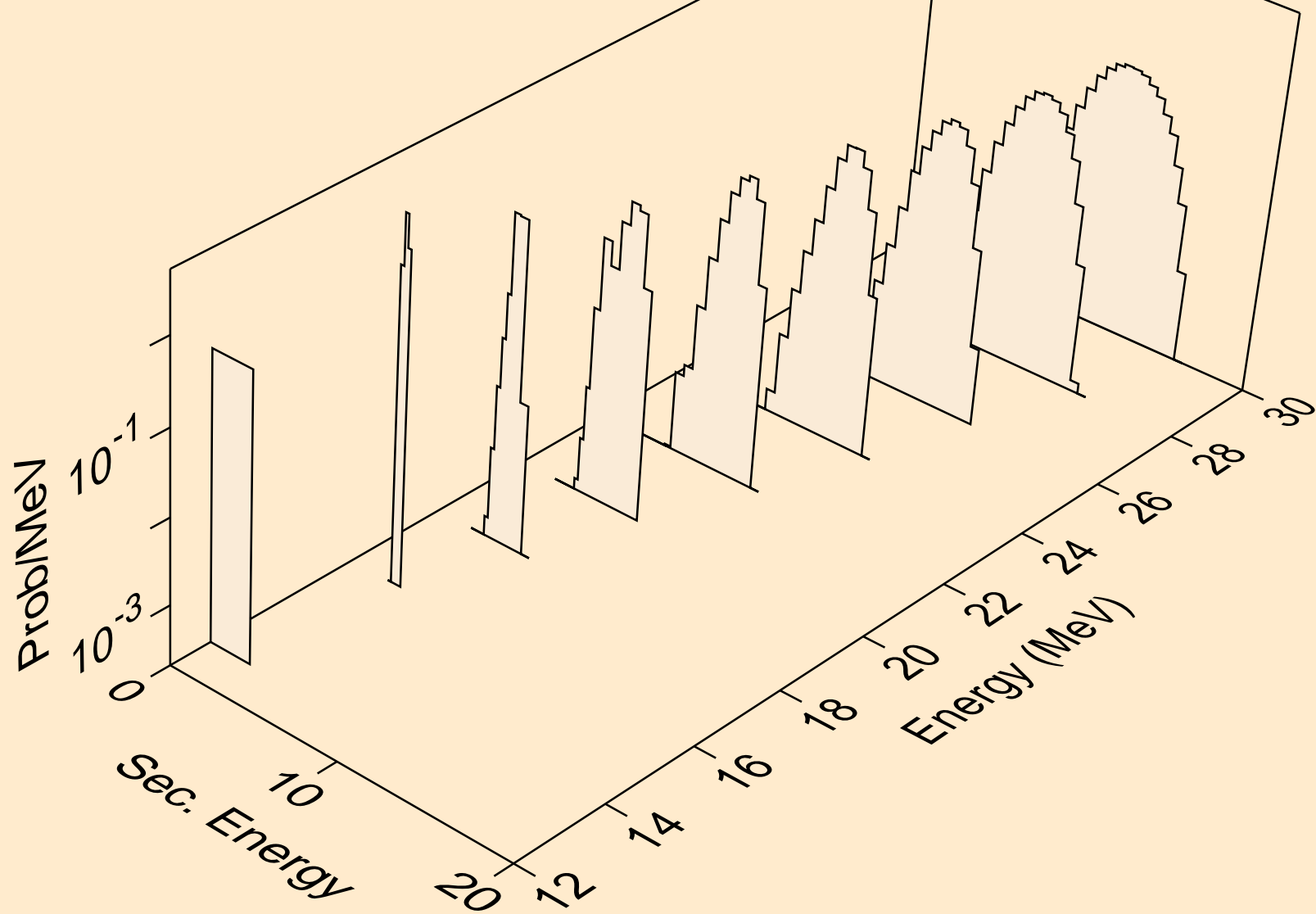
ZR099 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (p,n\*)a



ZR099 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (p,2n)a

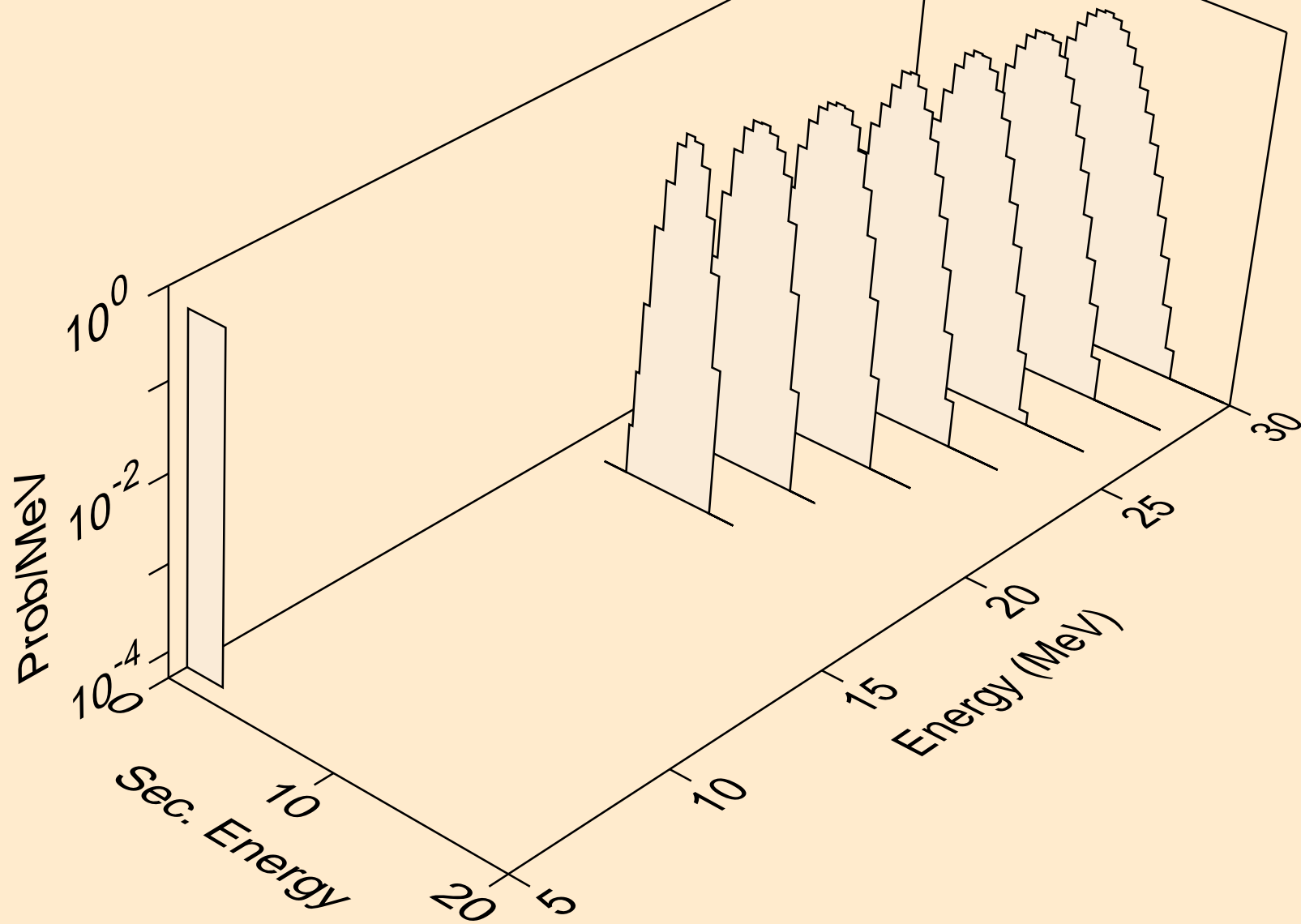


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alphas from (p,3n)a

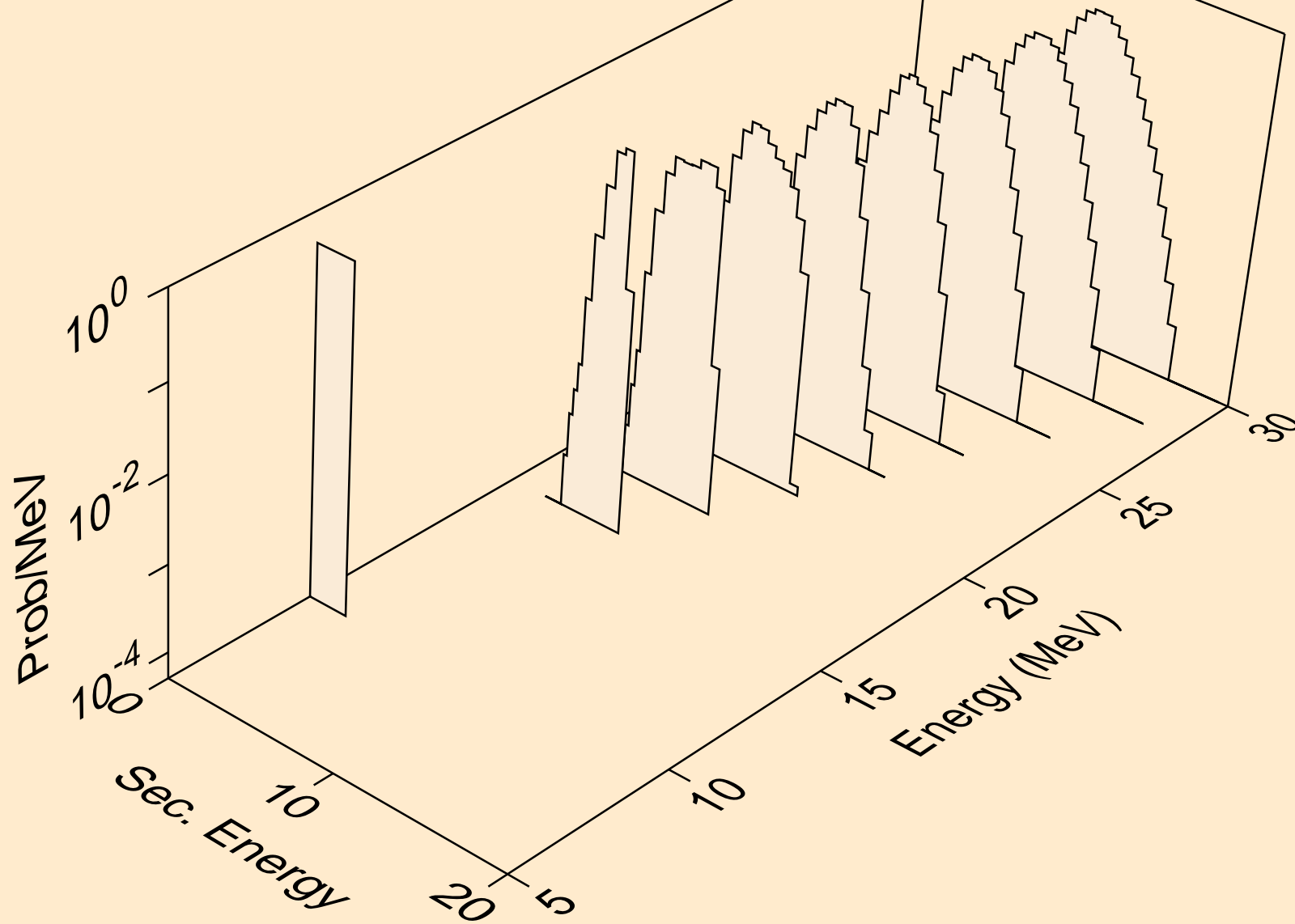




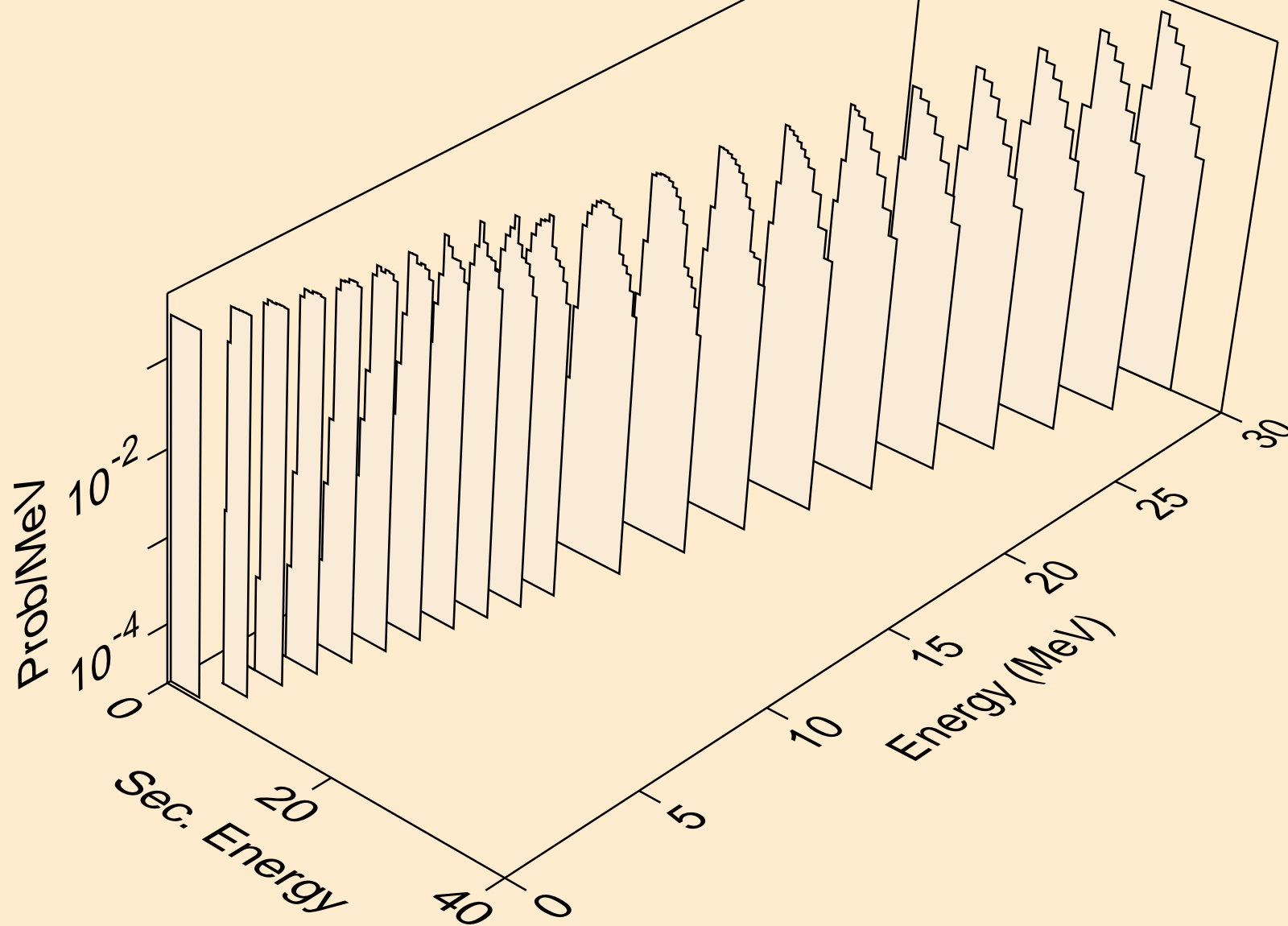
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alphas from (p,n\*)2a



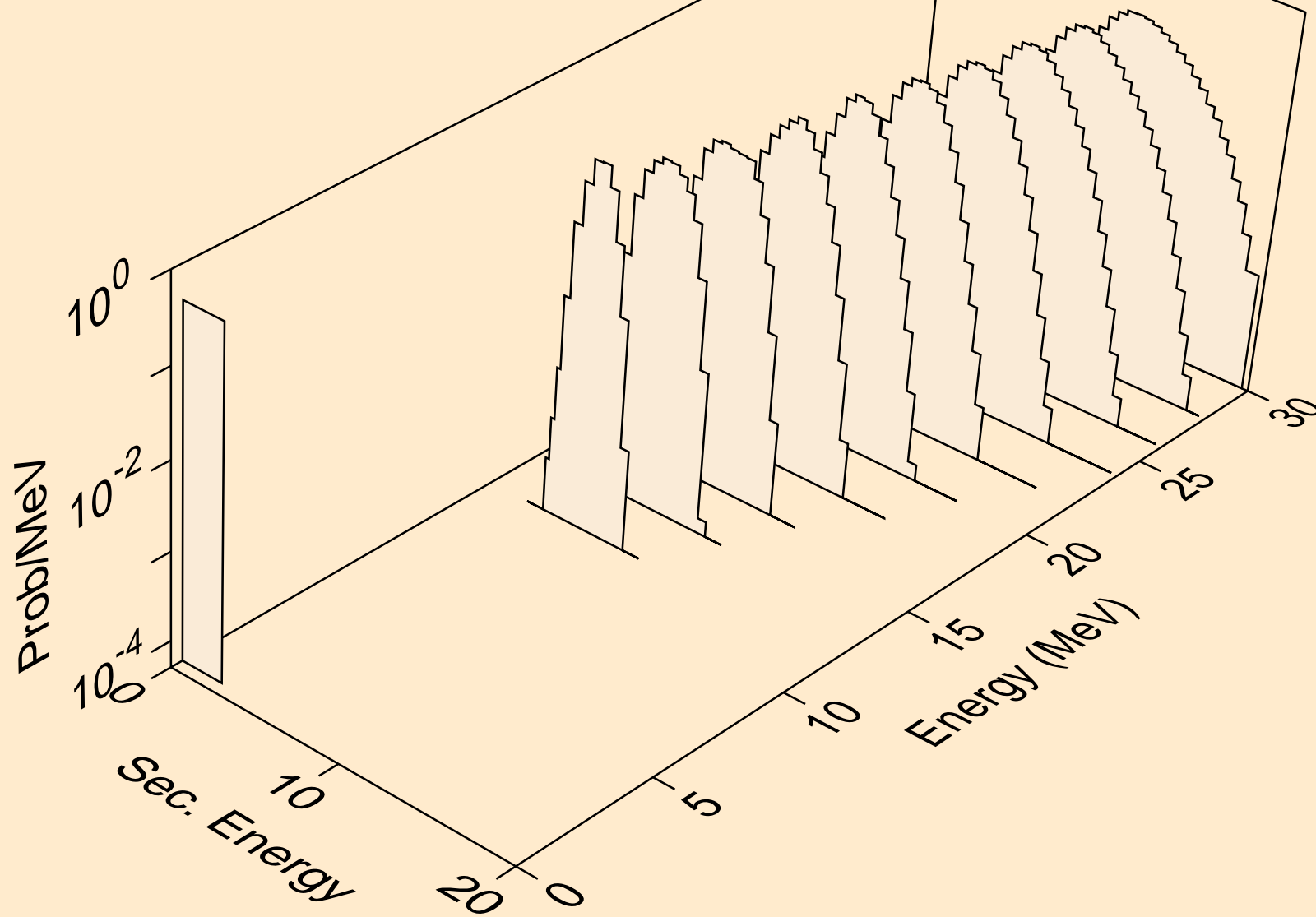
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alphas from (p,npa)



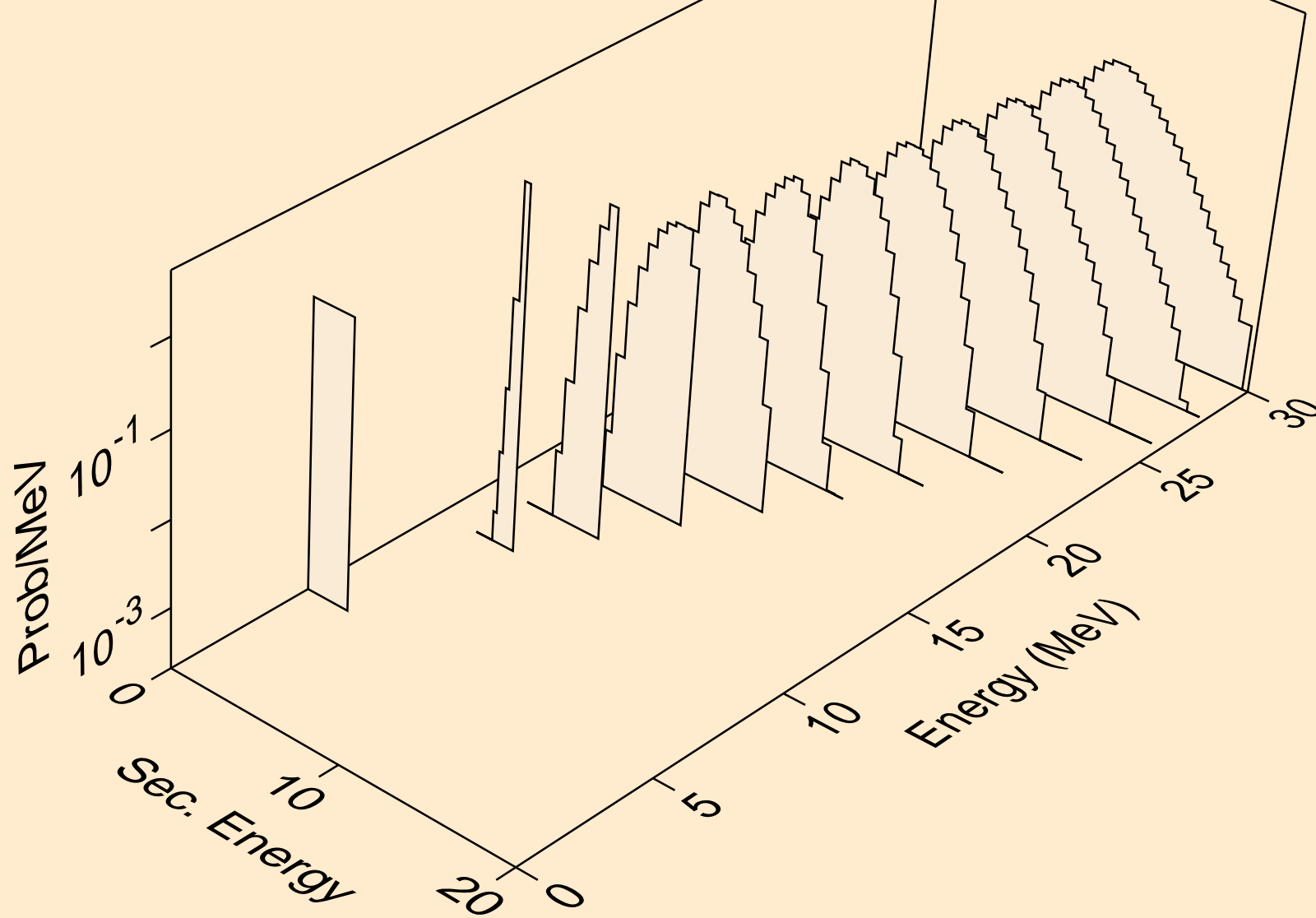
ZR099 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (p,a)



ZR099 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (p,2a)



ZR099 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (p,pa)



ZR099 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (p,da)

