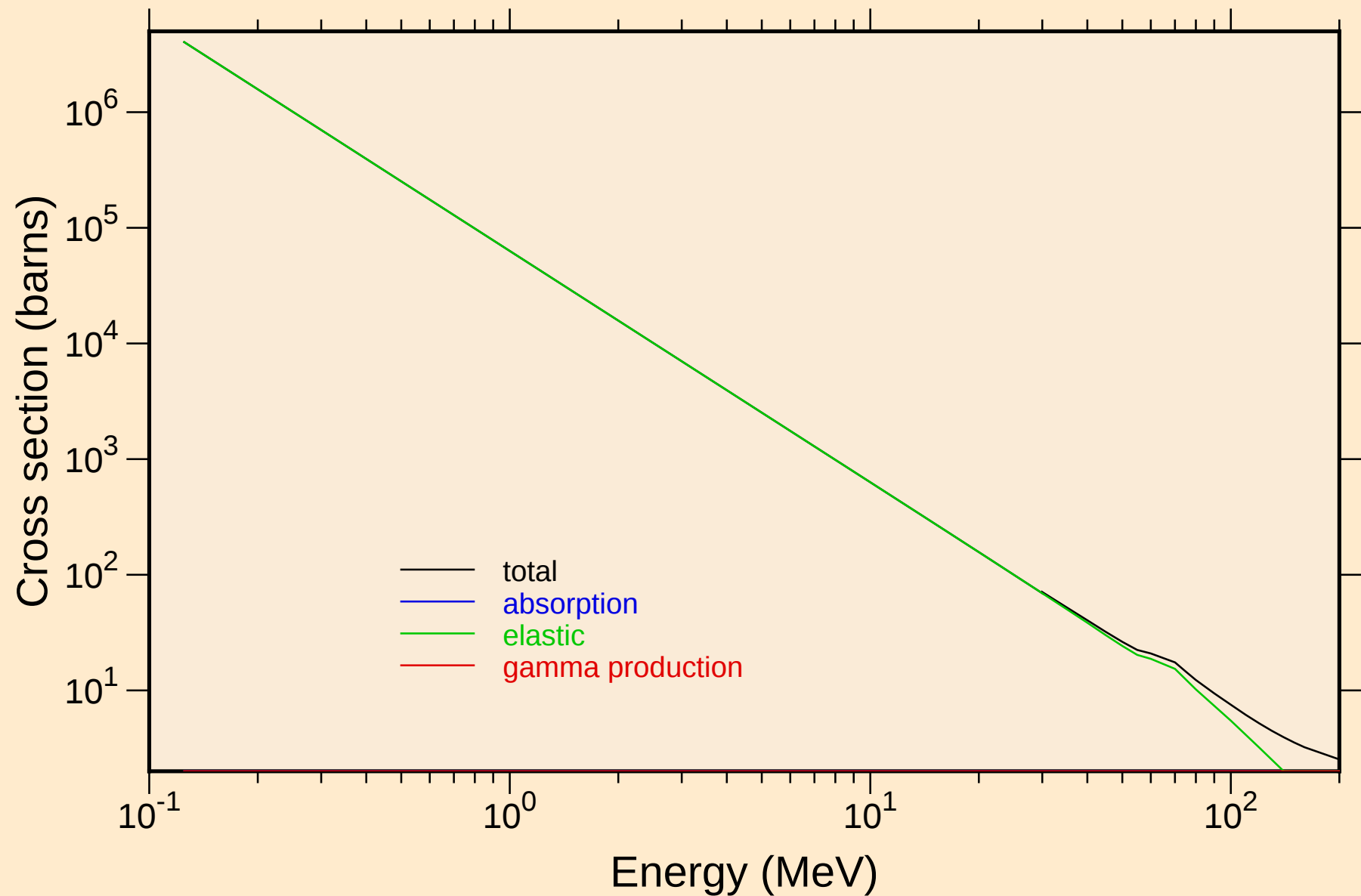


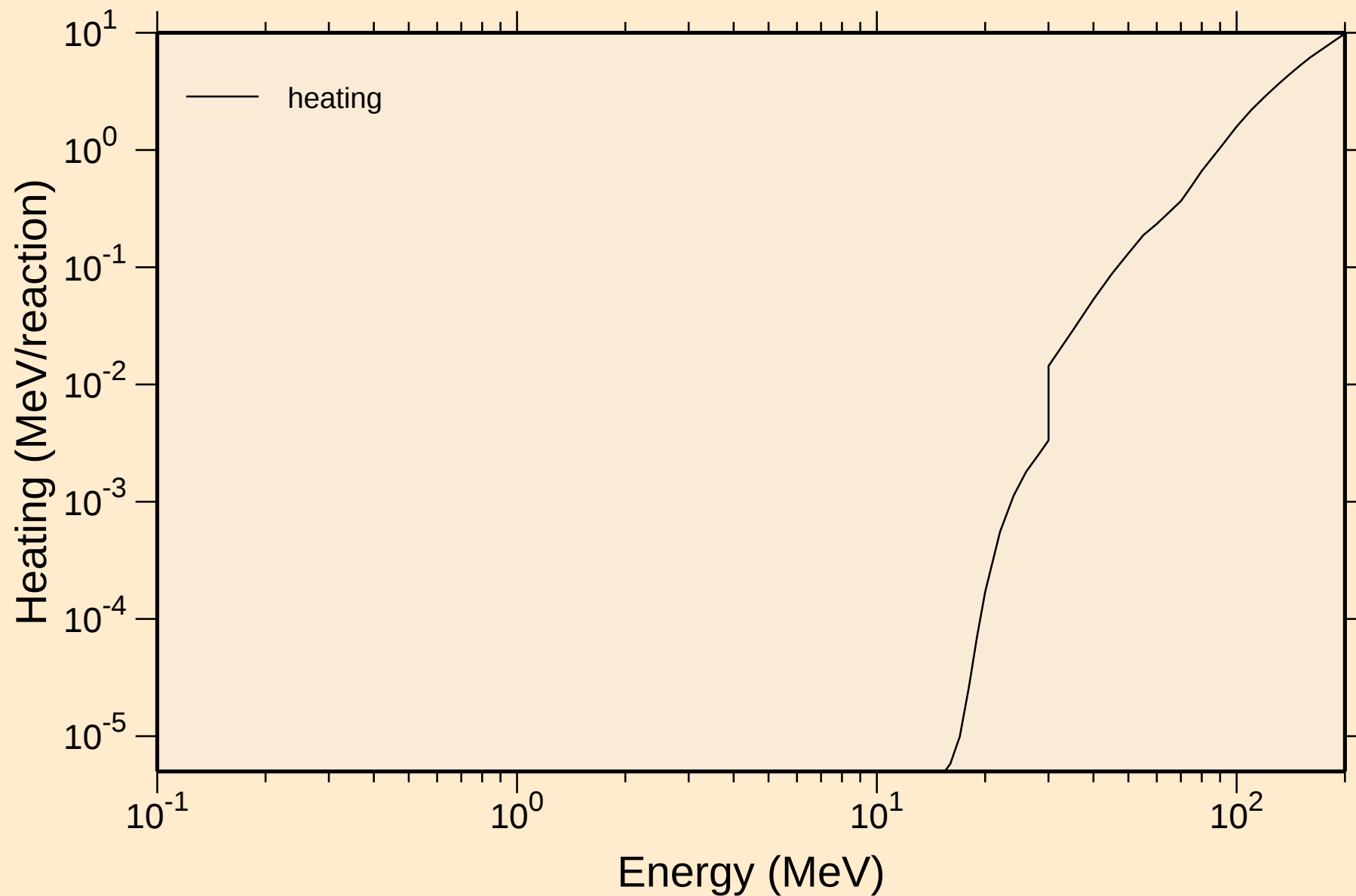
# MD247 PROTON ACER TENDL-2023 LIBRARY; T=0.K

## Principal cross sections



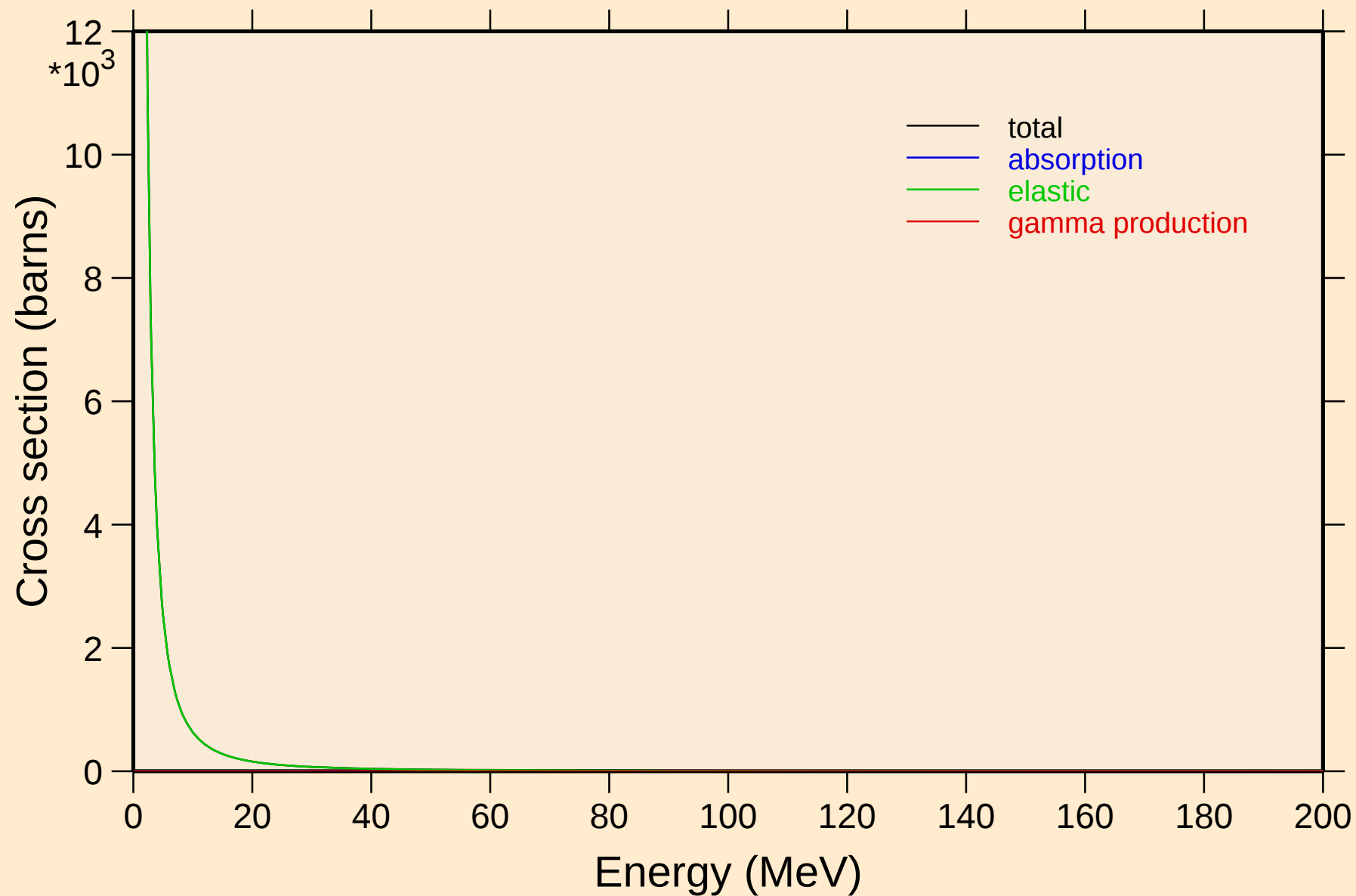
# MD247 PROTON ACER TENDL-2023 LIBRARY; T=0.K

Heating



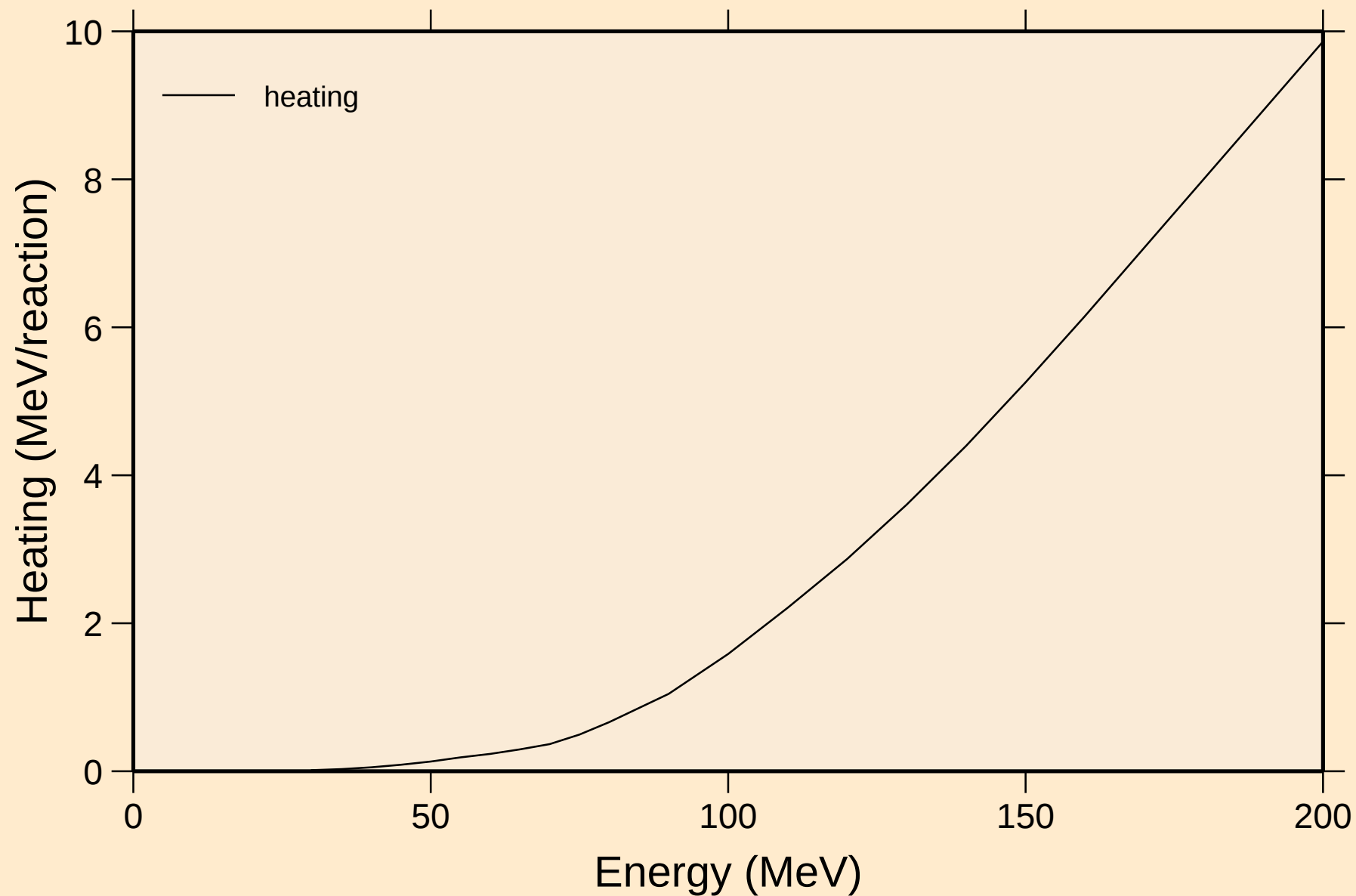
# MD247 PROTON ACER TENDL-2023 LIBRARY; T=0.K

## Principal cross sections



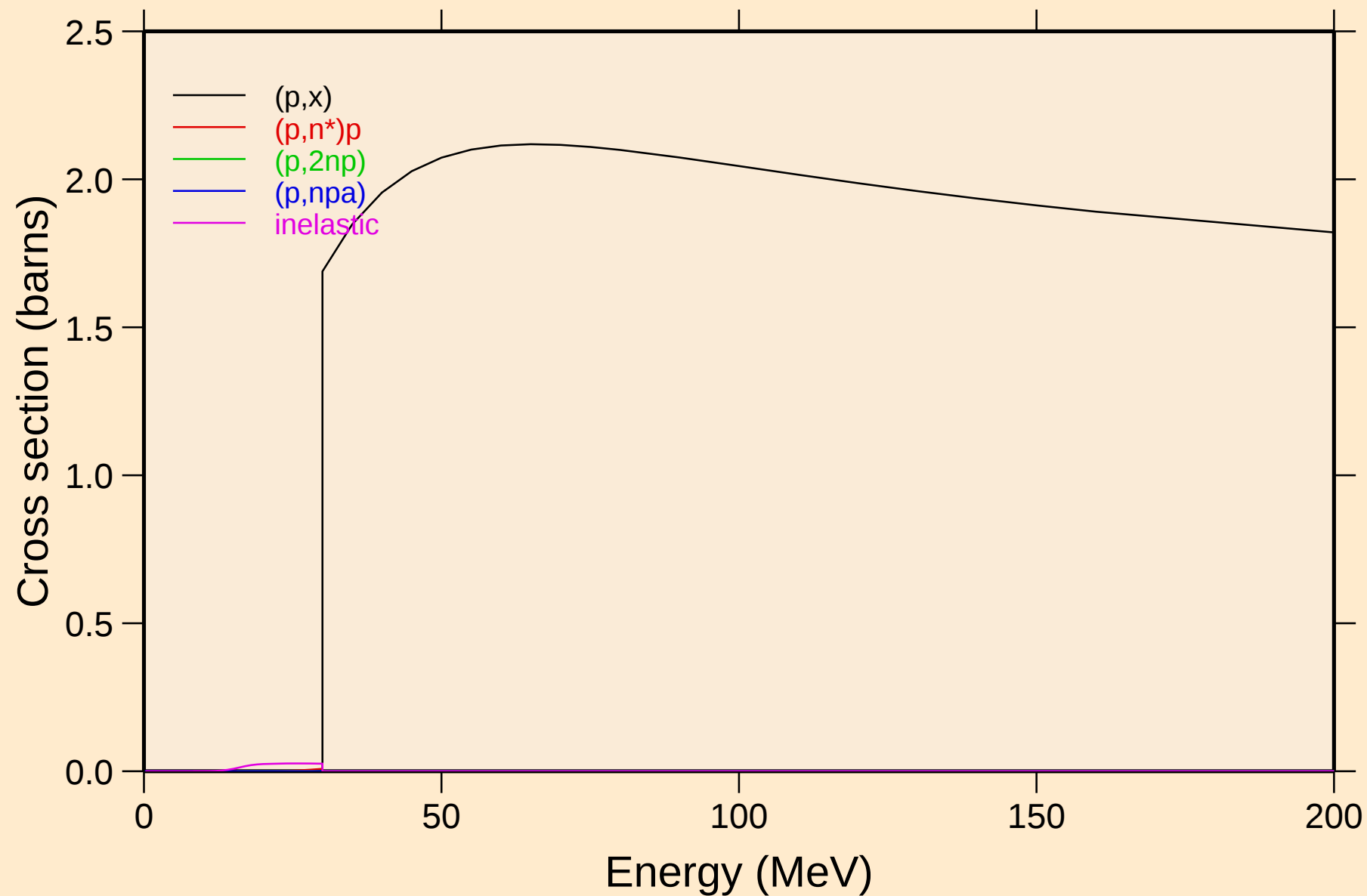
# MD247 PROTON ACER TENDL-2023 LIBRARY; T=0.K

Heating

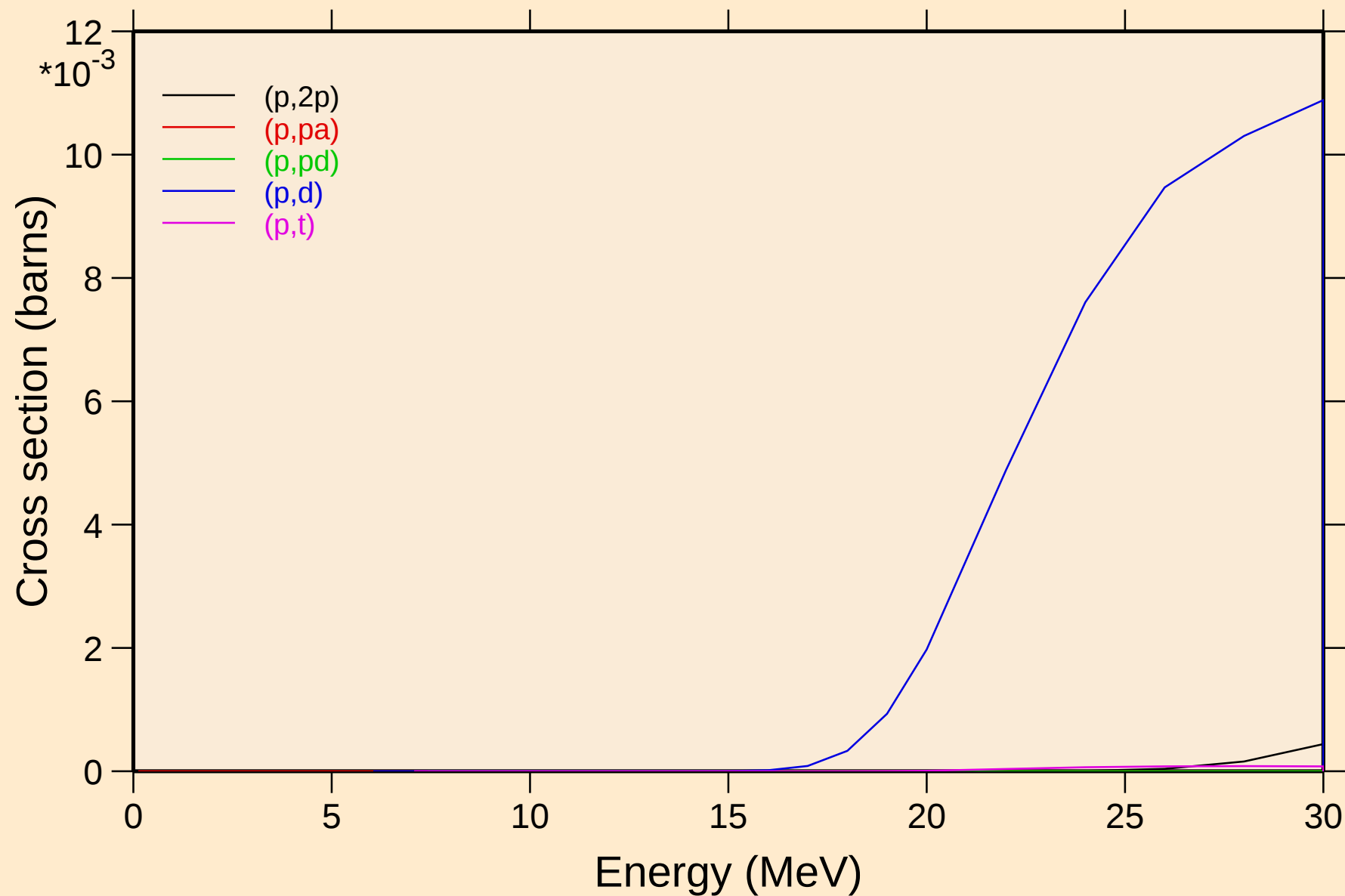


# MD247 PROTON ACER TENDL-2023 LIBRARY; T=0.K

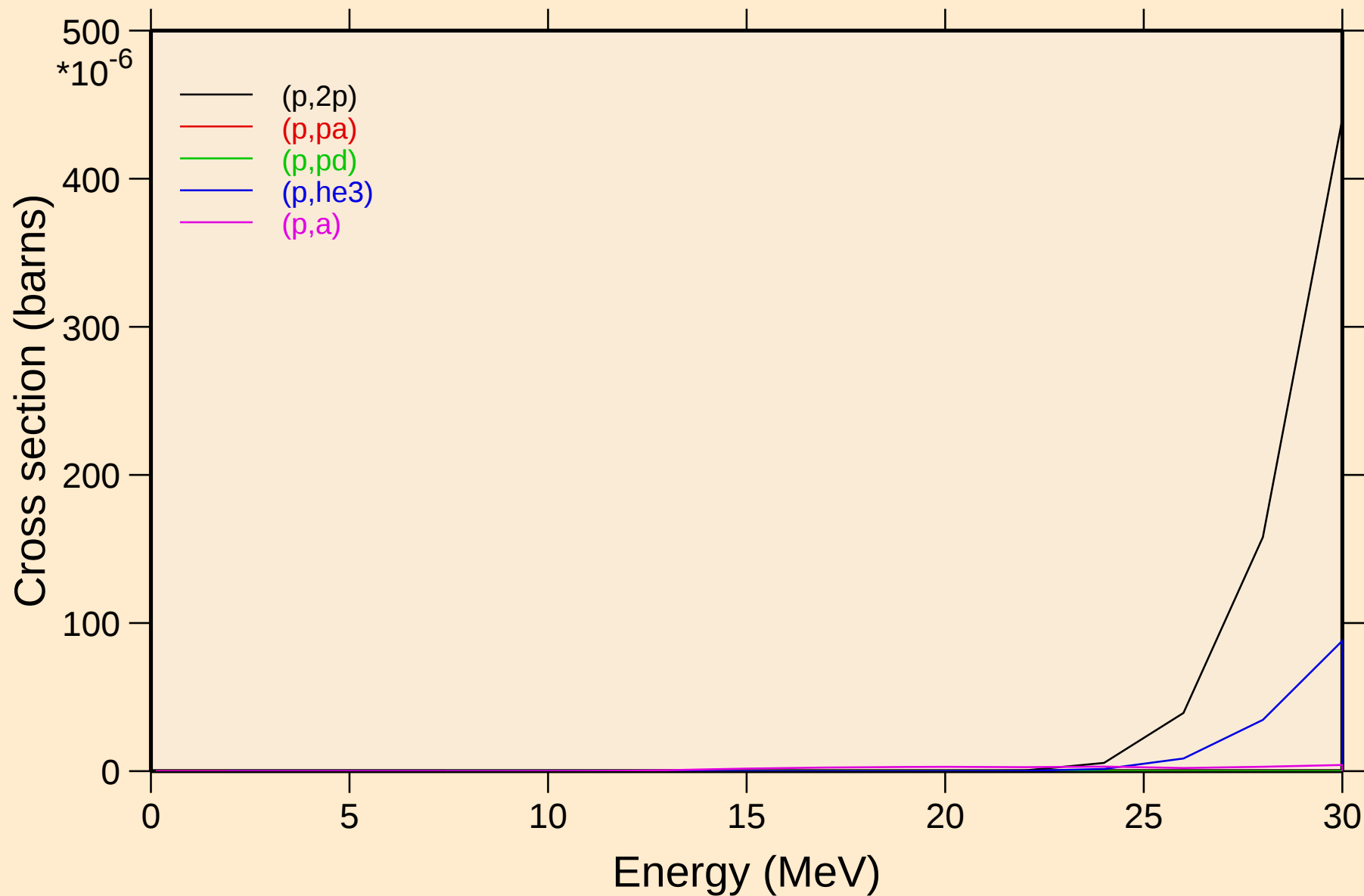
Threshold reactions



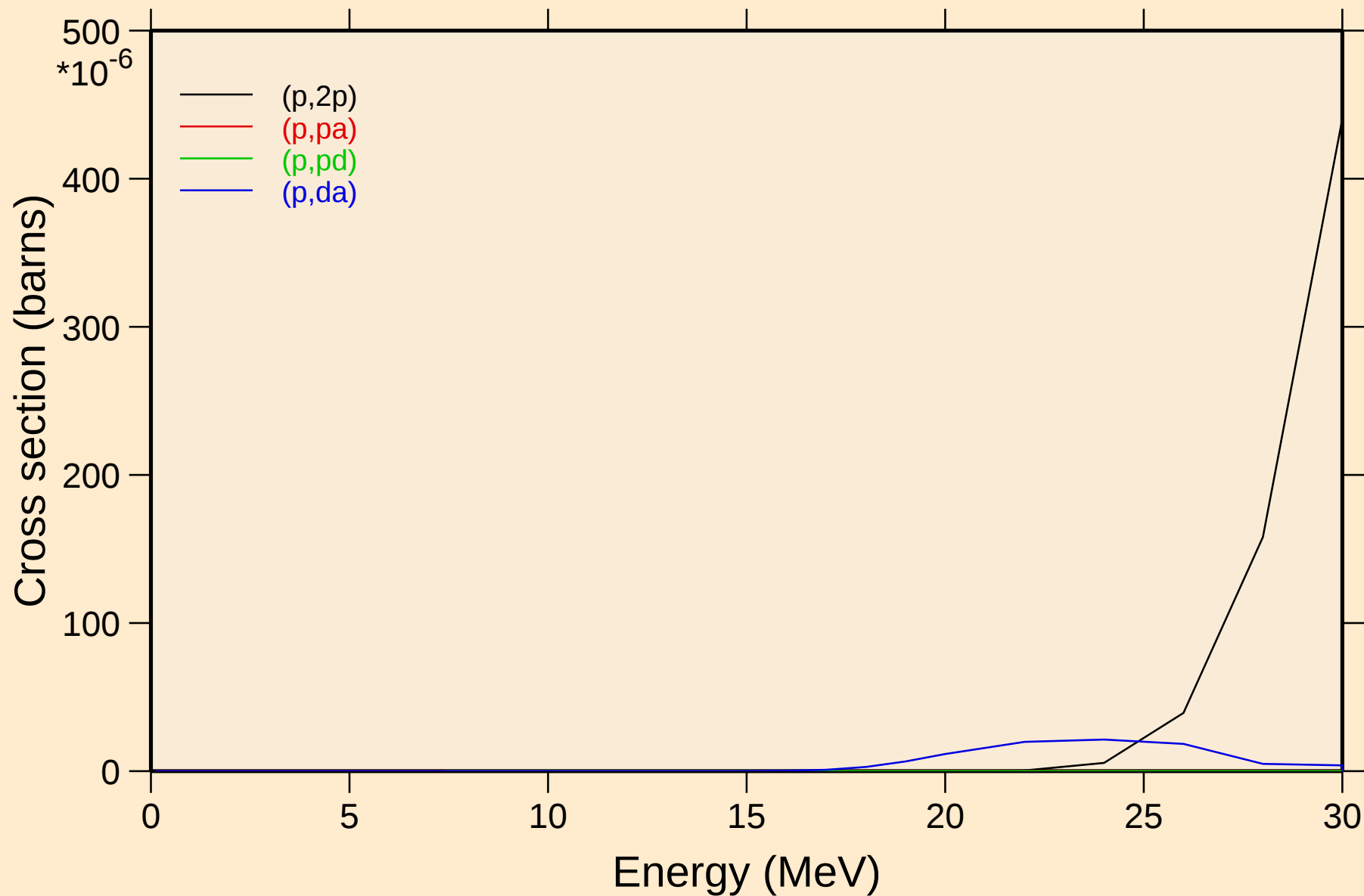
MD247 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Threshold reactions



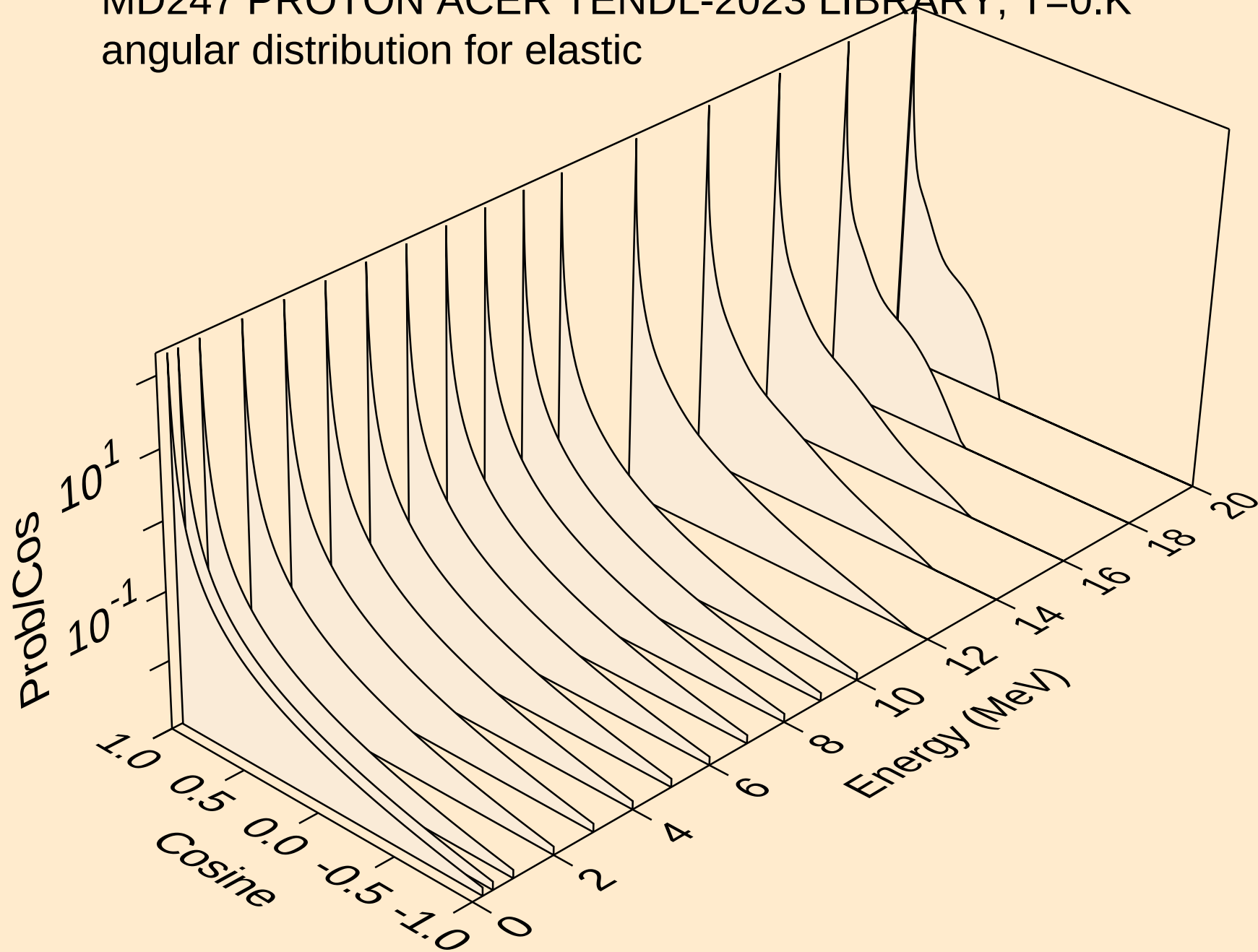
MD247 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Threshold reactions



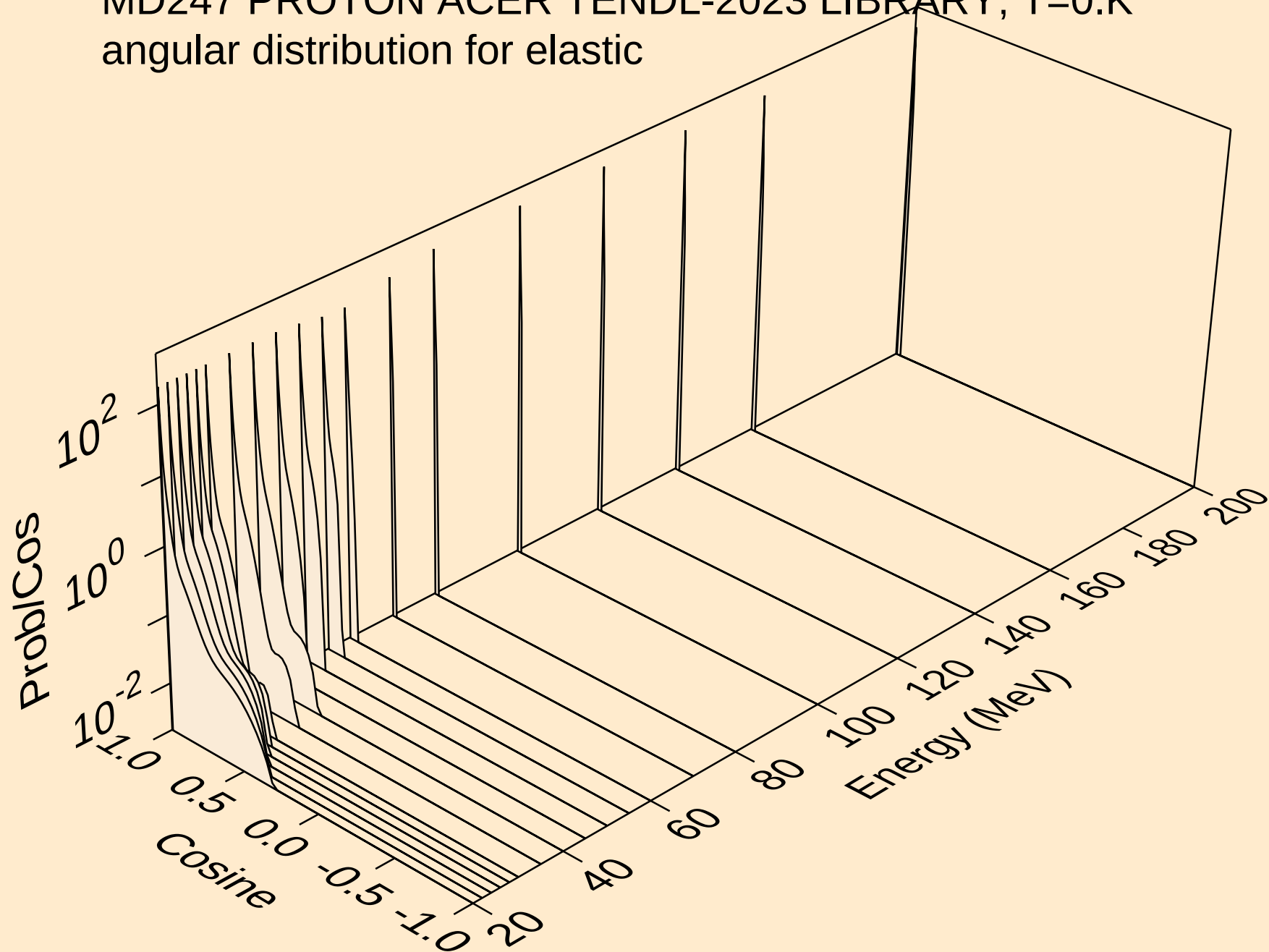
MD247 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Threshold reactions



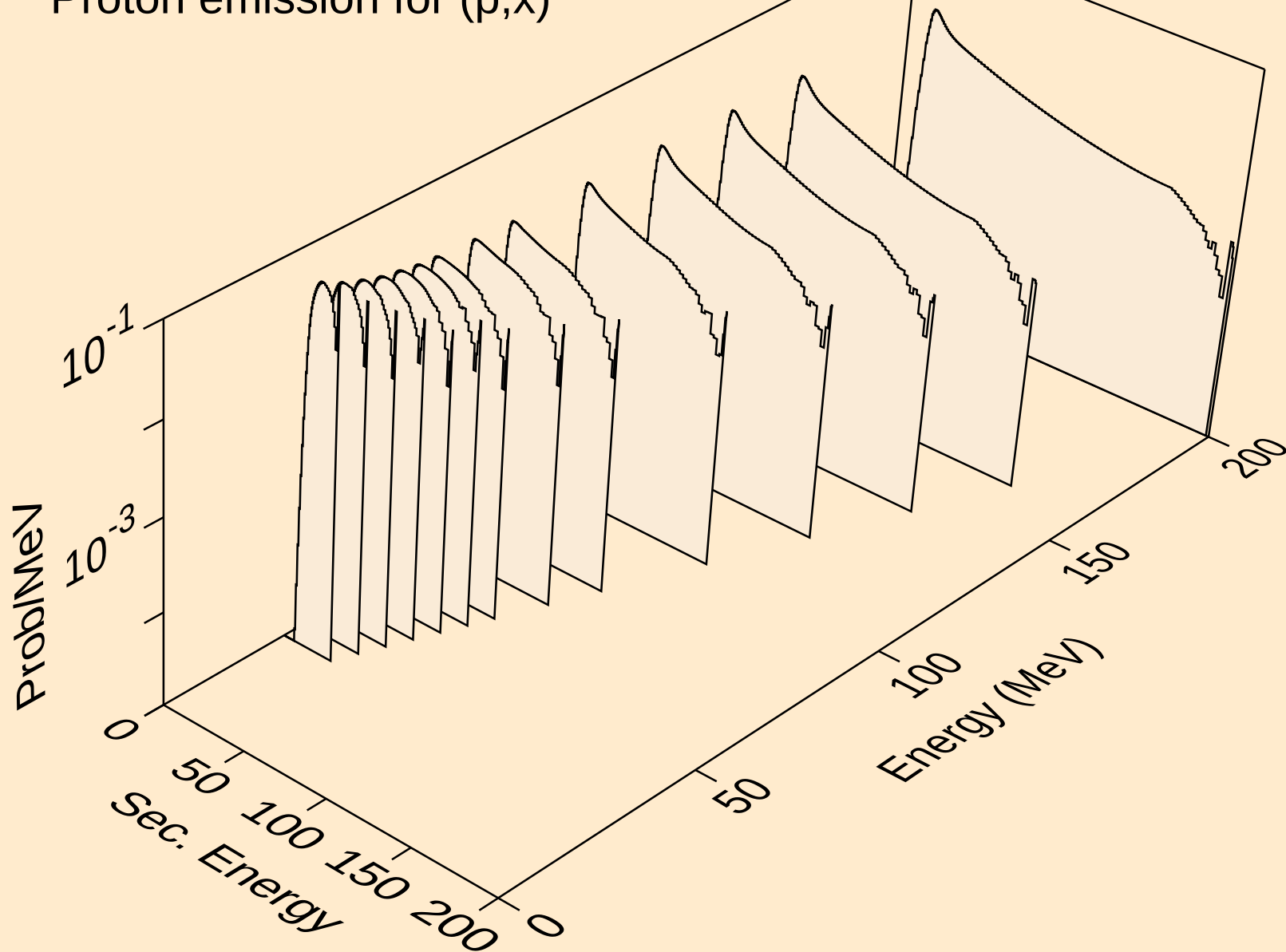
MD247 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for elastic



MD247 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for elastic

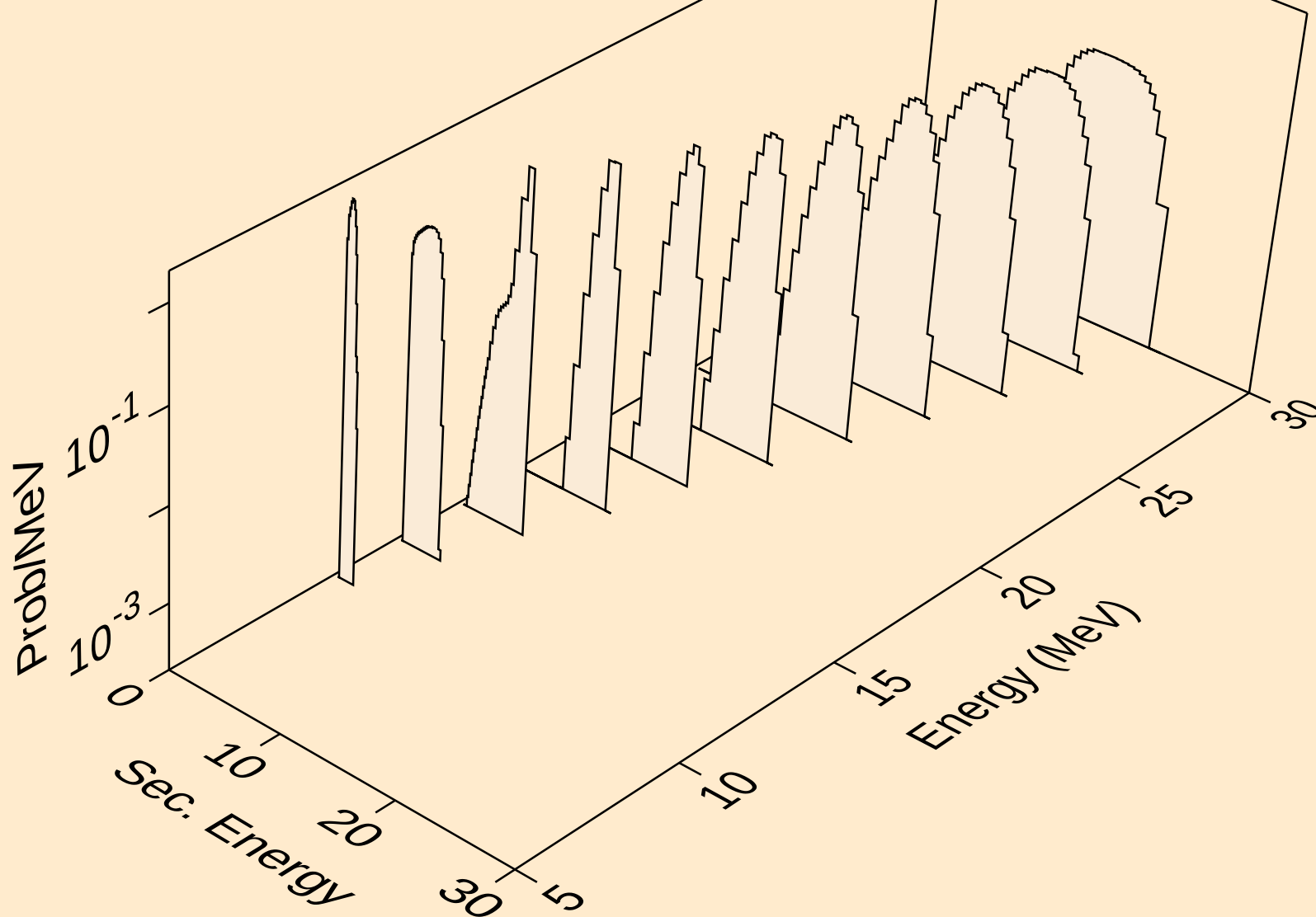


MD247 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Proton emission for (p,x)

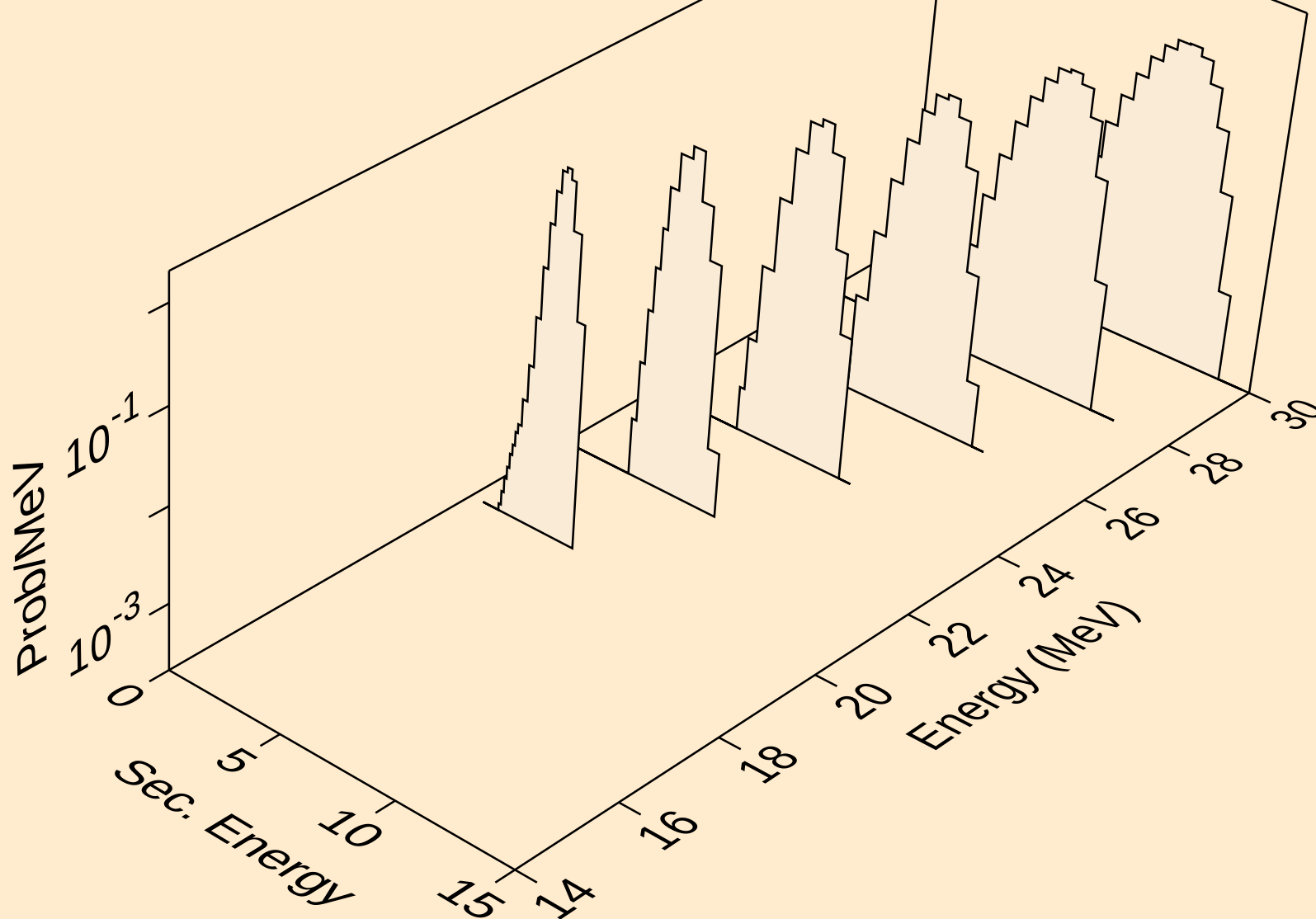


MD247 PROTON ACER TENDL-2023 LIBRARY; T=0.K

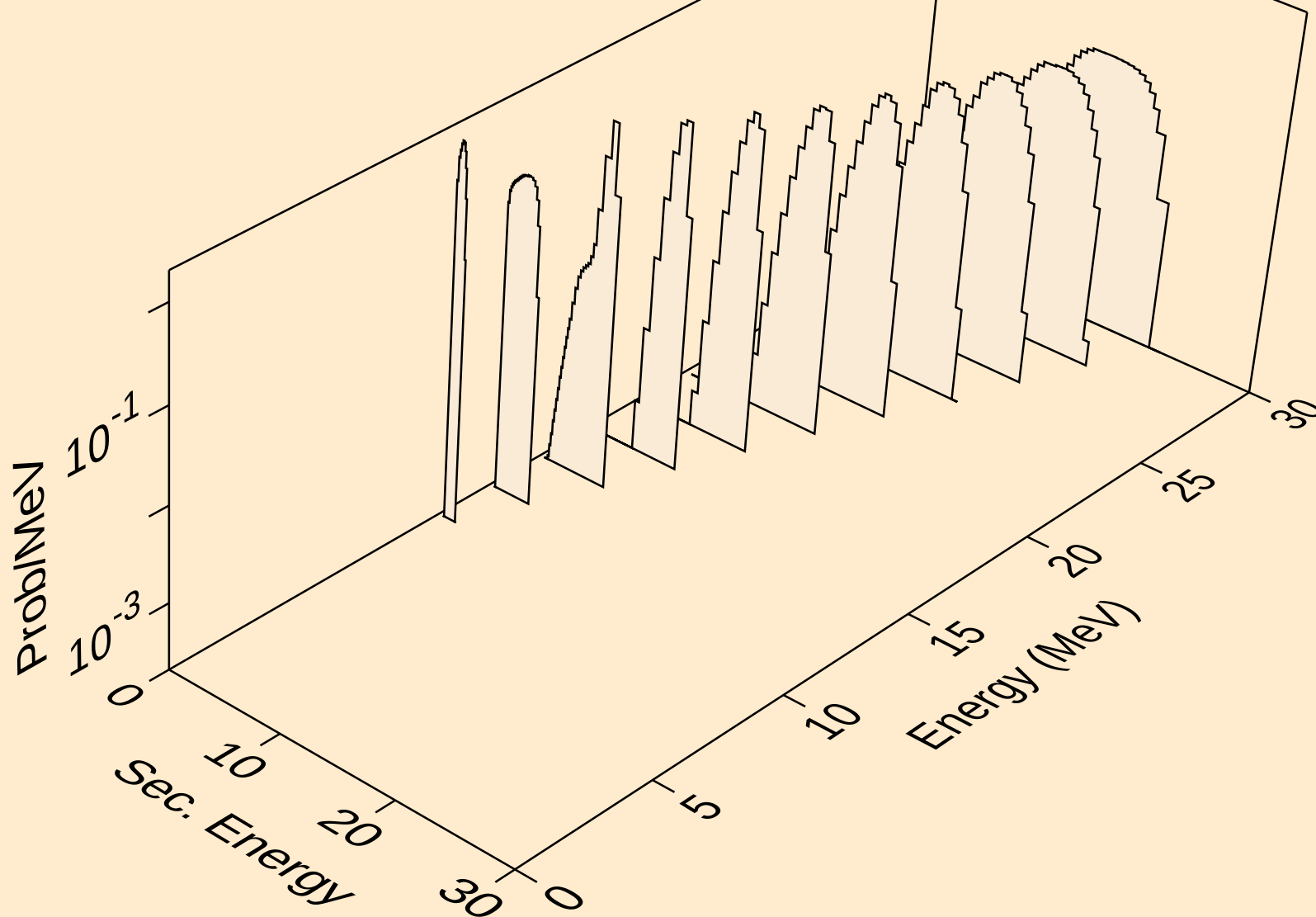
Proton emission for  $(p,n^*)p$



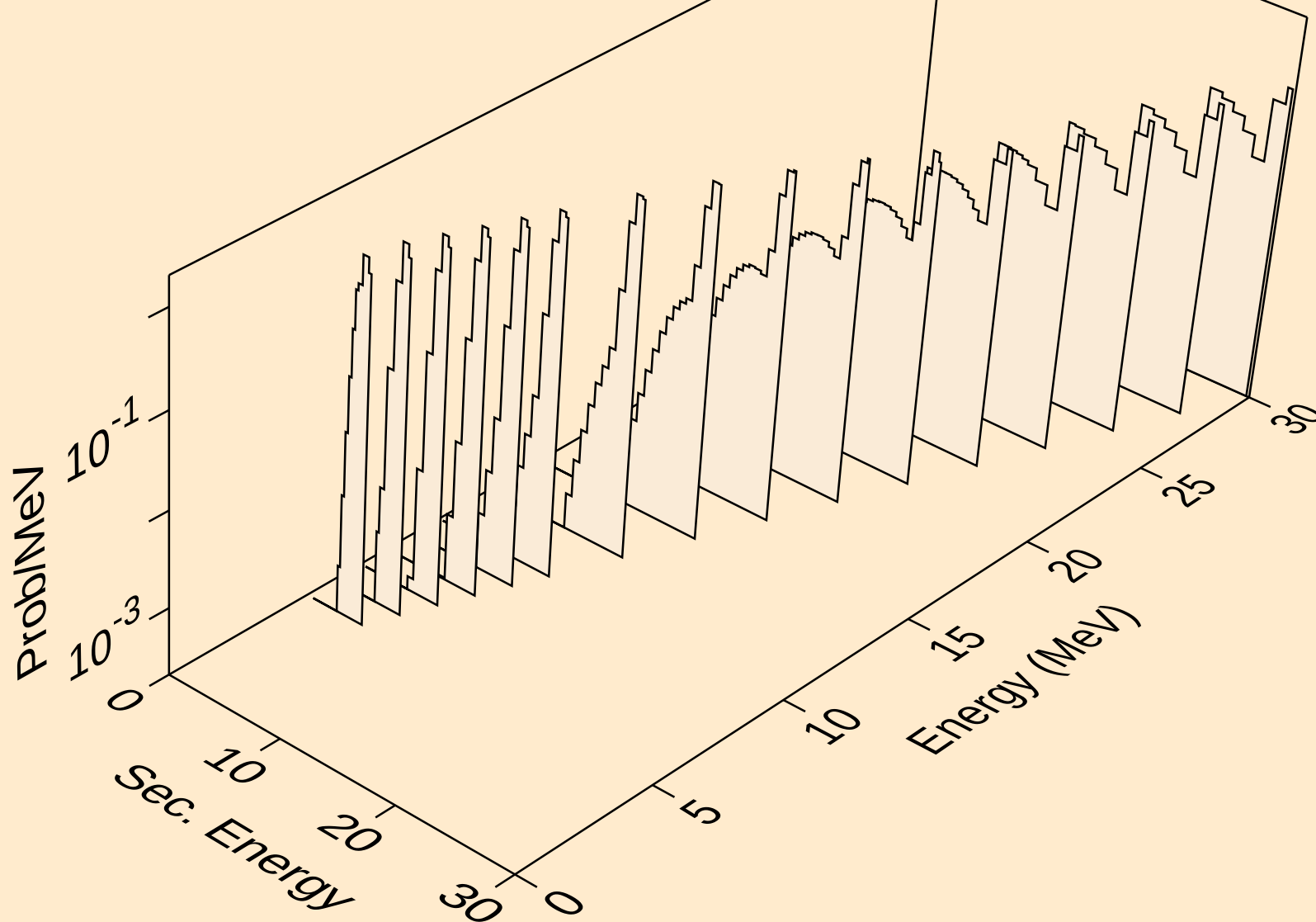
MD247 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Proton emission for (p,2np)



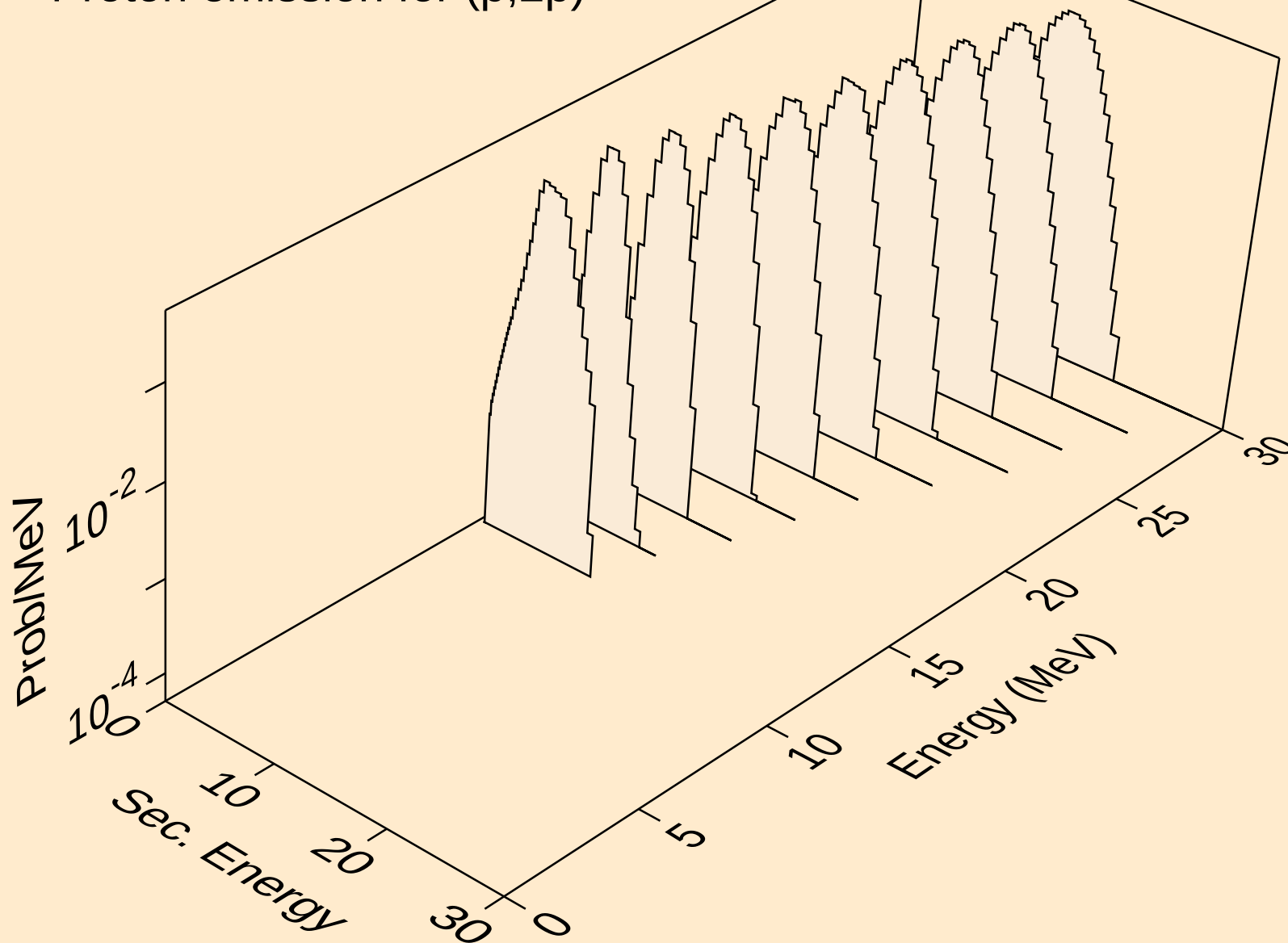
MD247 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Proton emission for (p,npa)



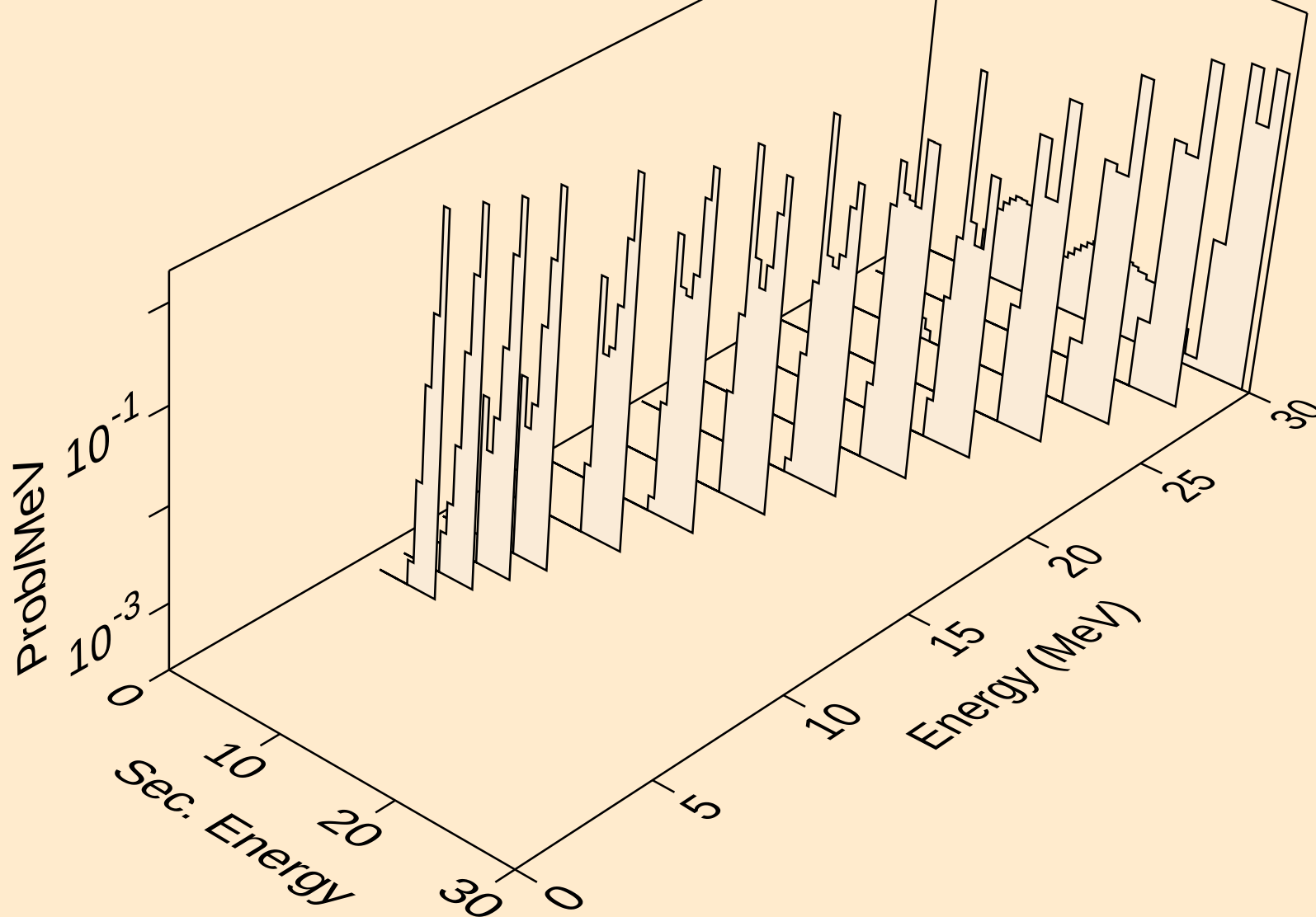
MD247 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Proton emission for inelastic



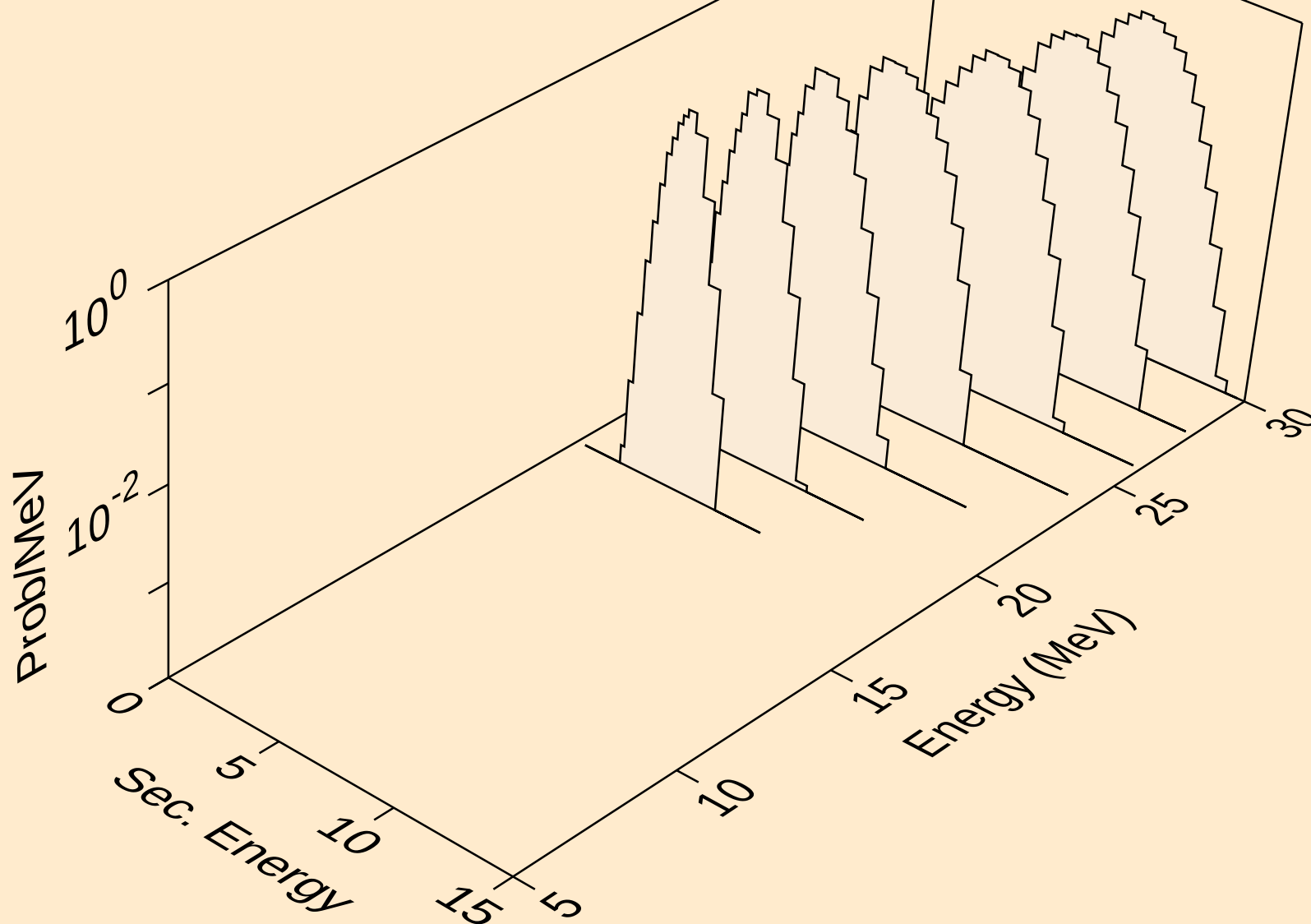
MD247 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Proton emission for (p,2p)



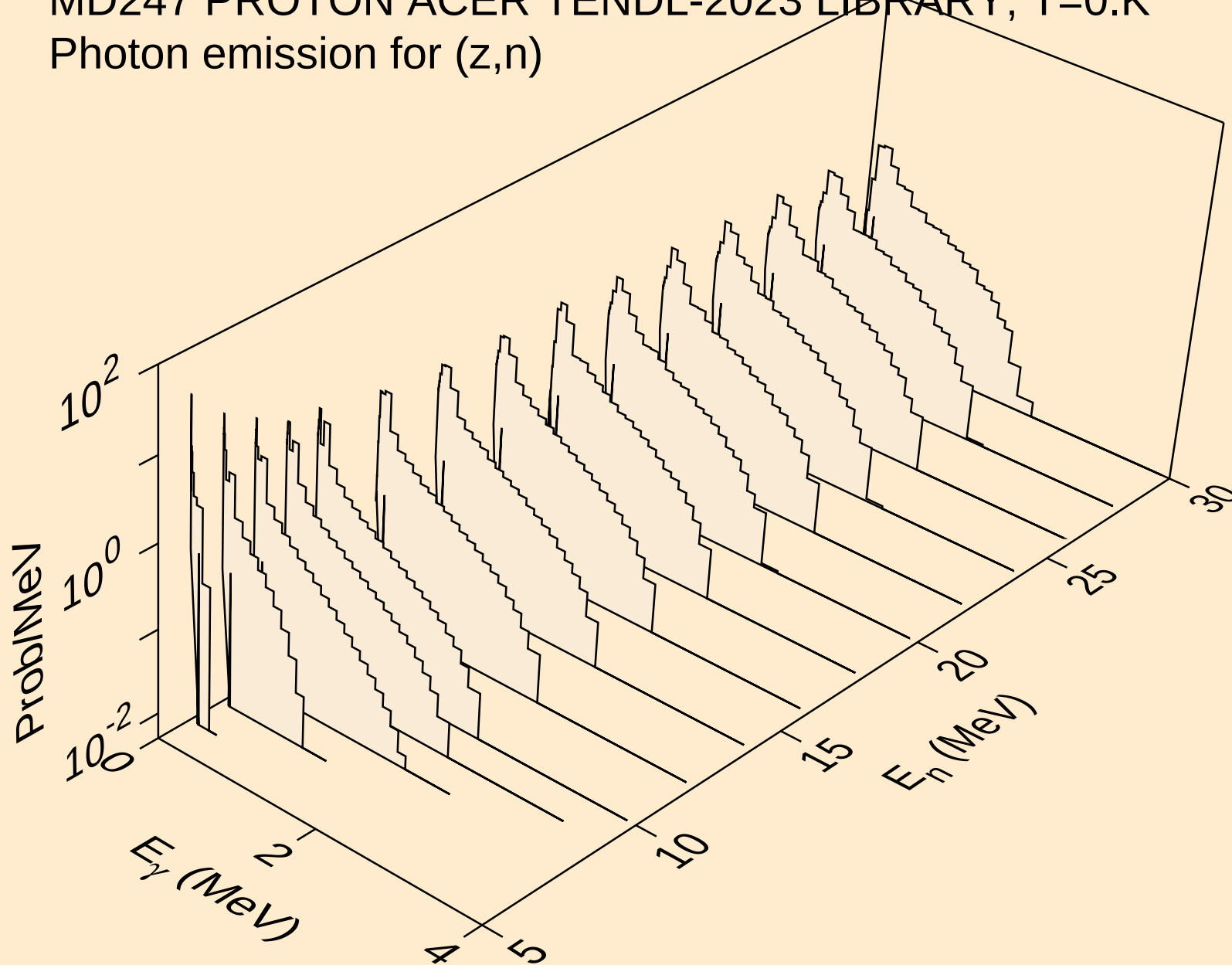
MD247 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Proton emission for (p,pa)



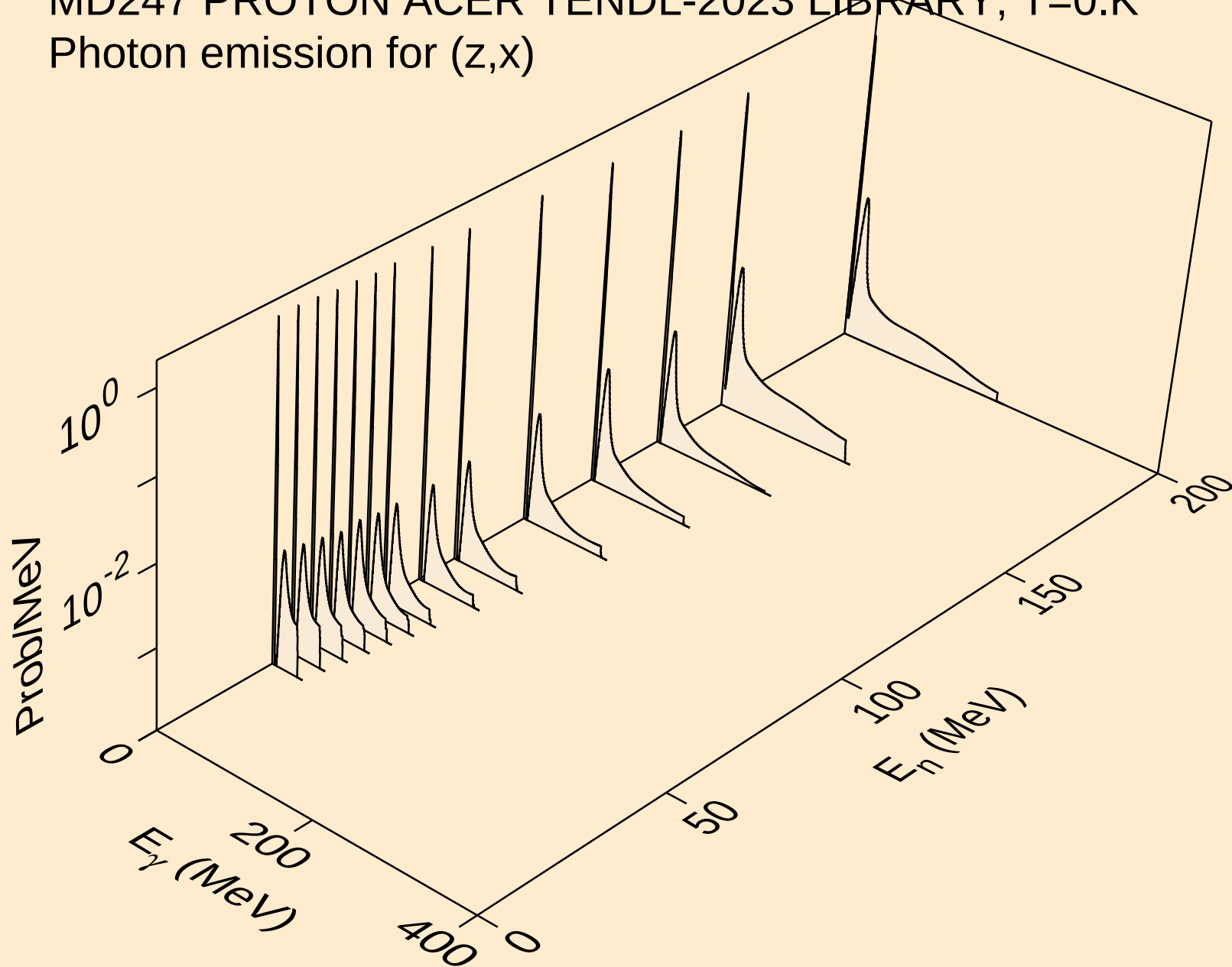
MD247 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Proton emission for (p,pd)



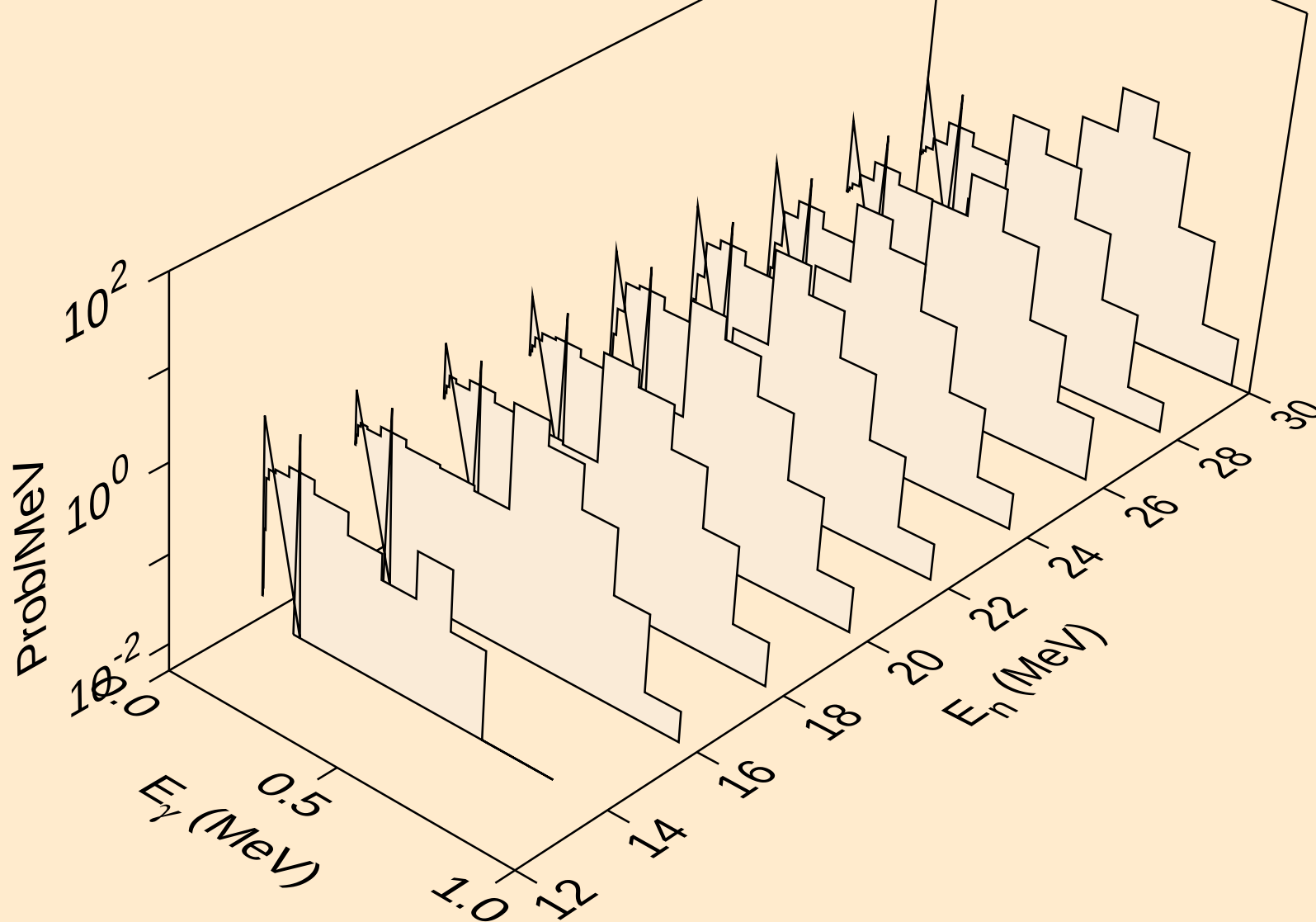
MD247 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (z,n)



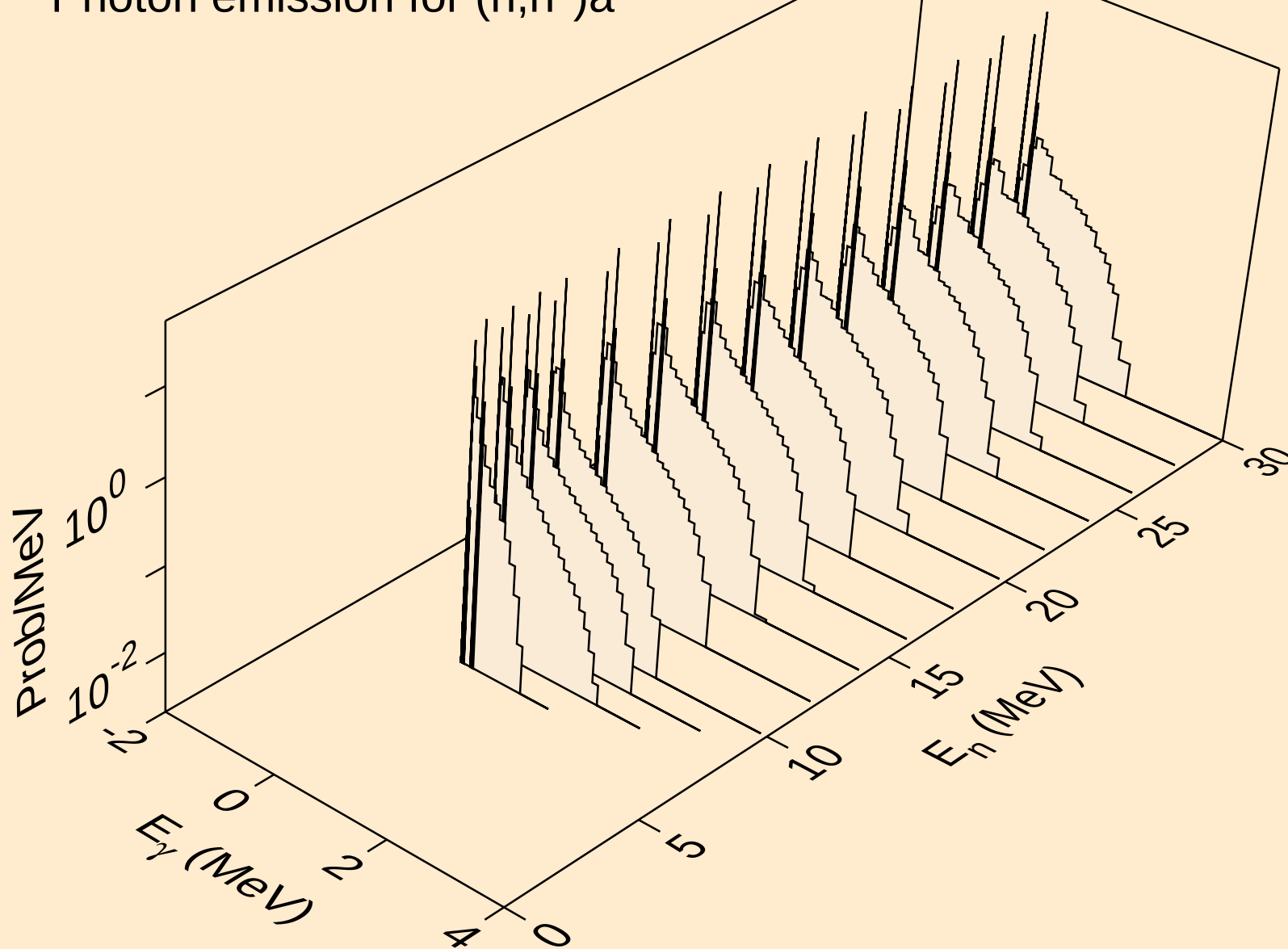
MD247 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (z,x)



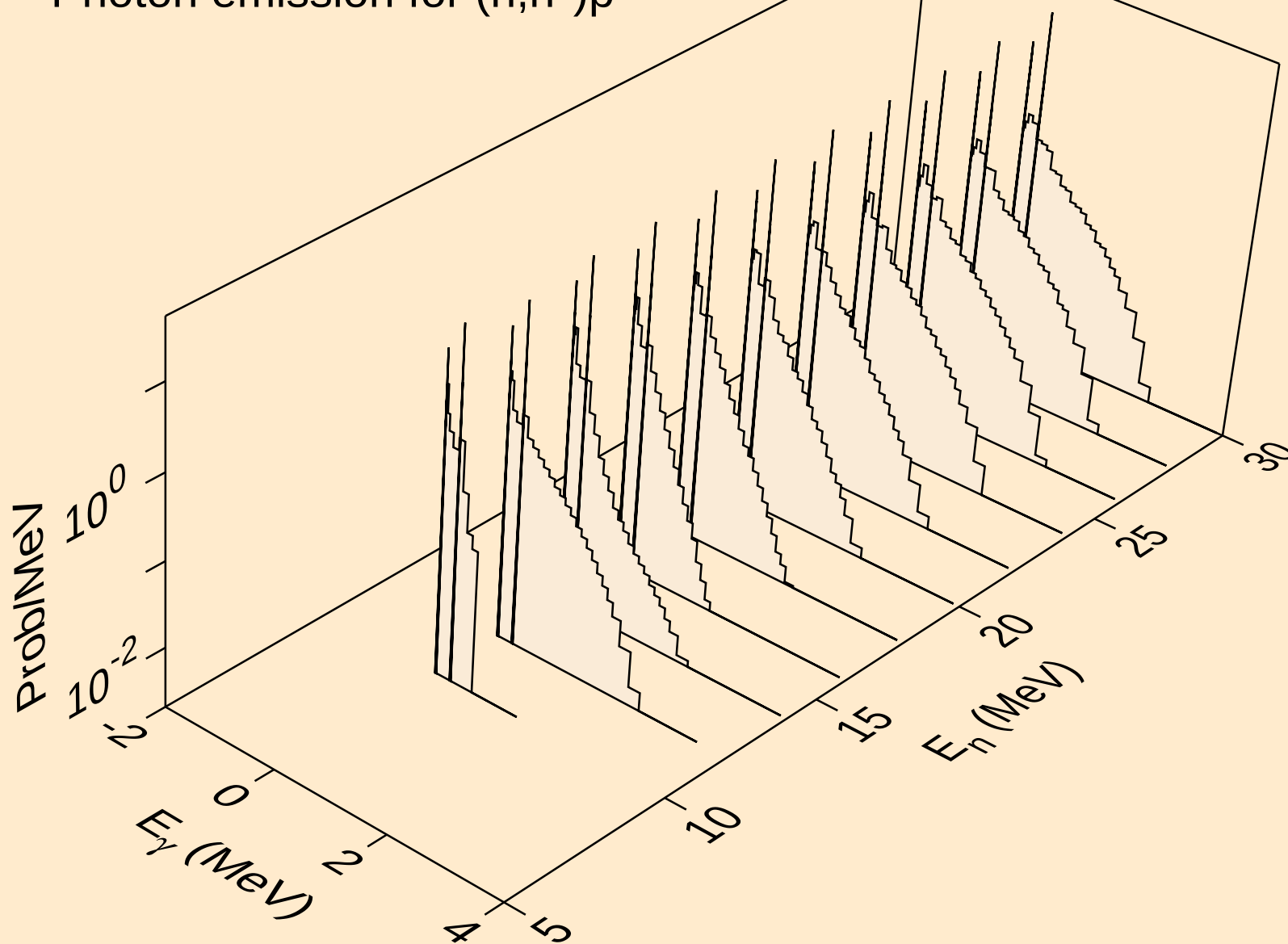
MD247 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2n)



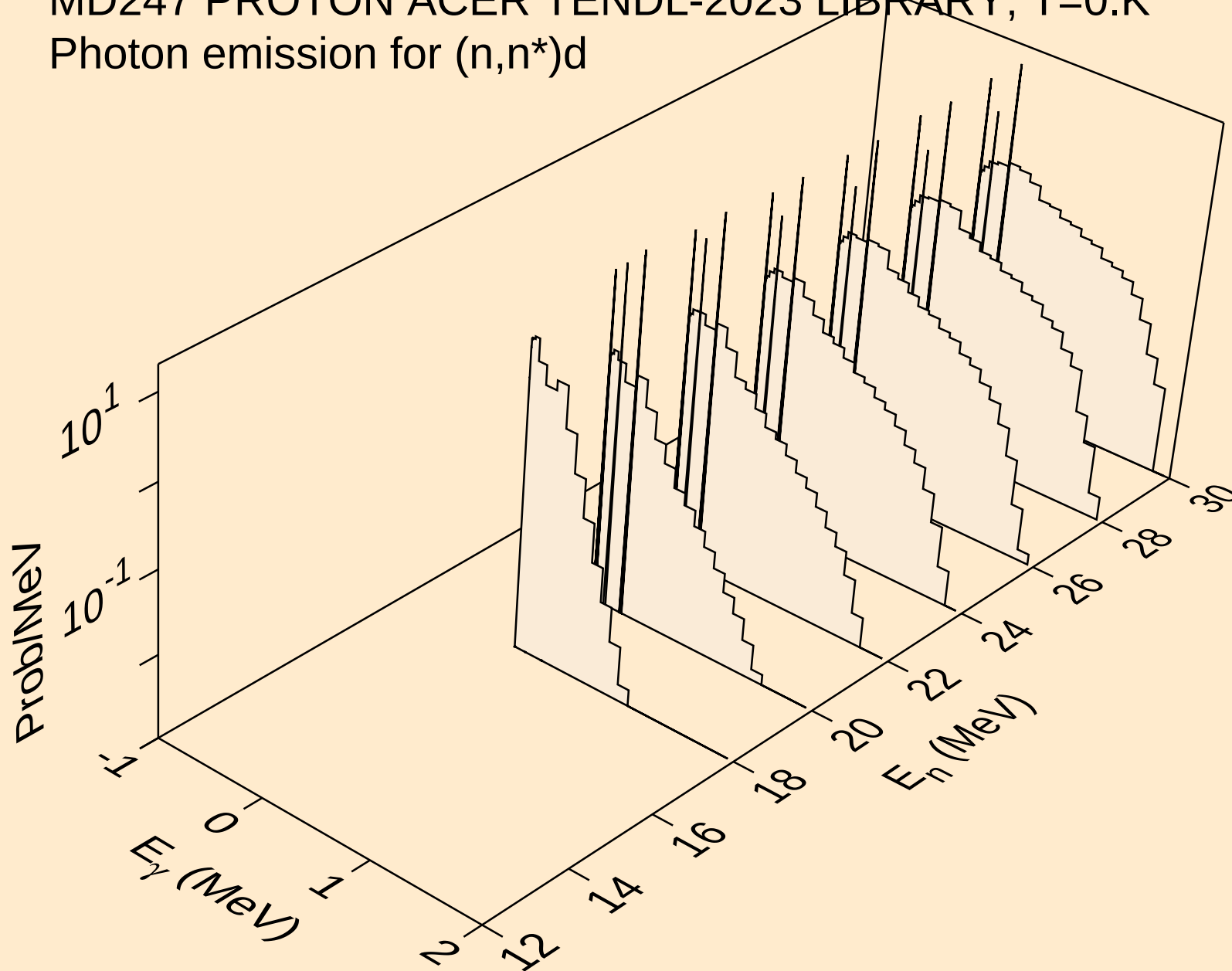
MD247 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)a



MD247 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)p

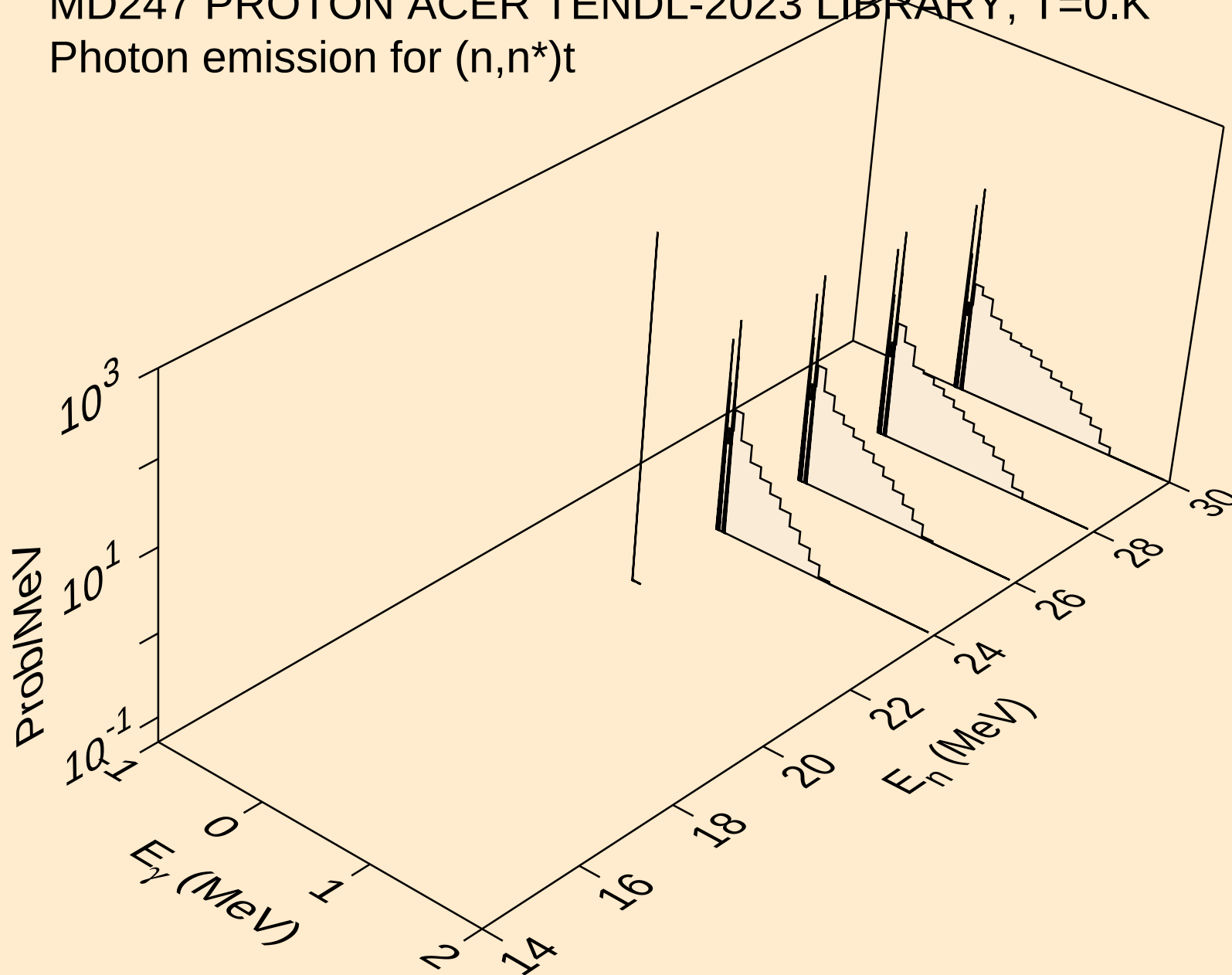


MD247 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)d

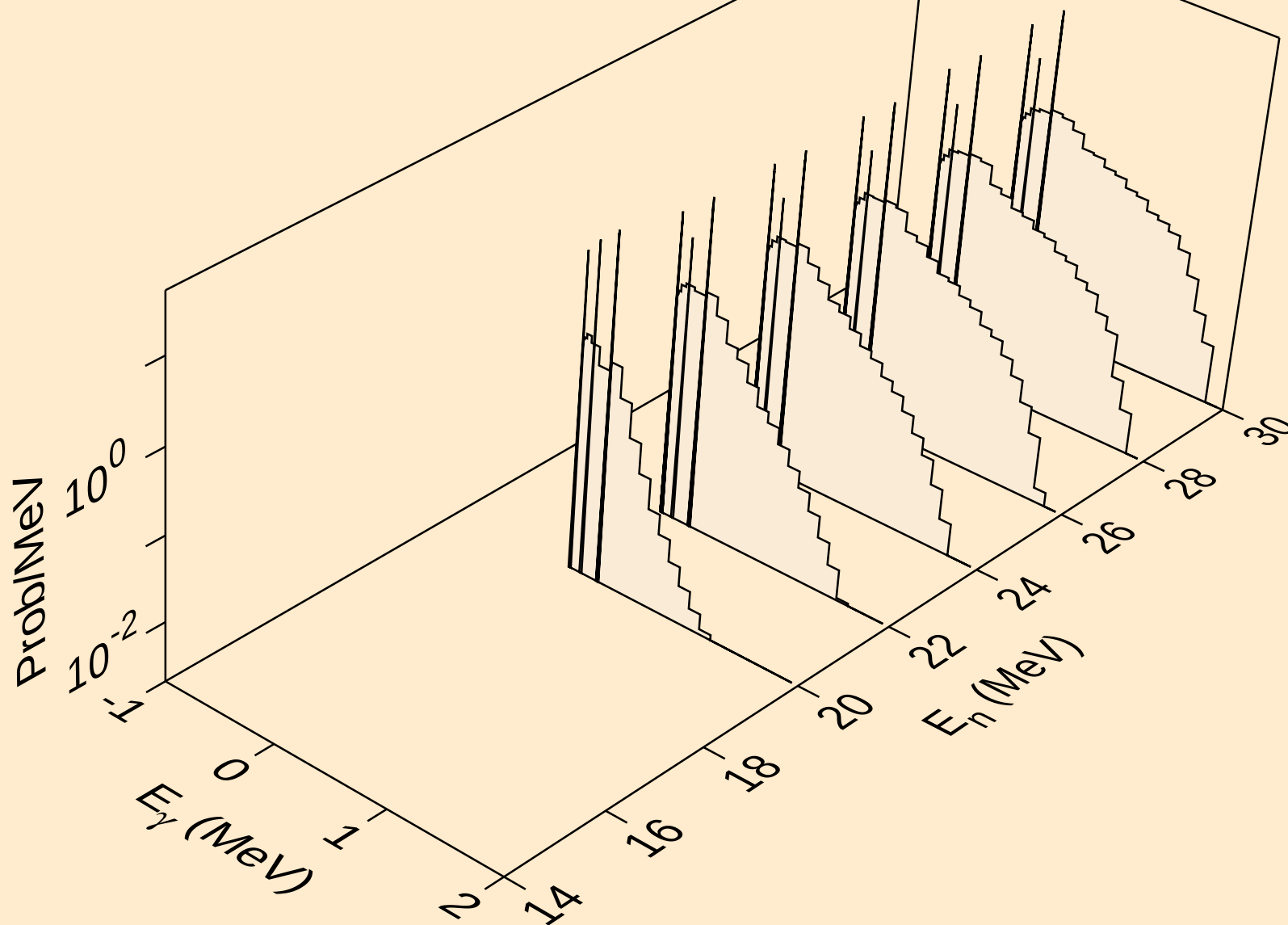


MD247 PROTON ACER TENDL-2023 LIBRARY; T=0.K

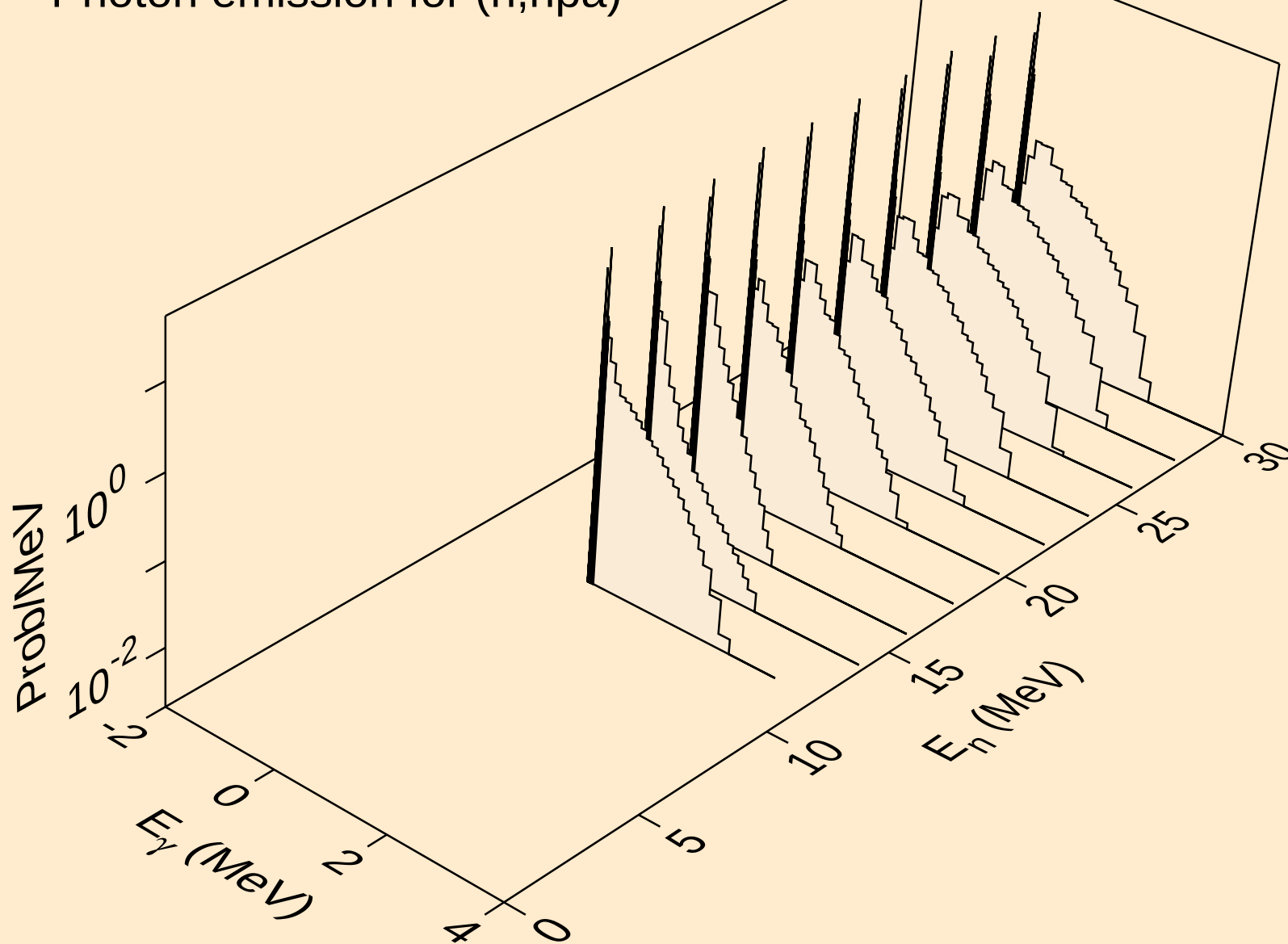
Photon emission for (n,n\*)t



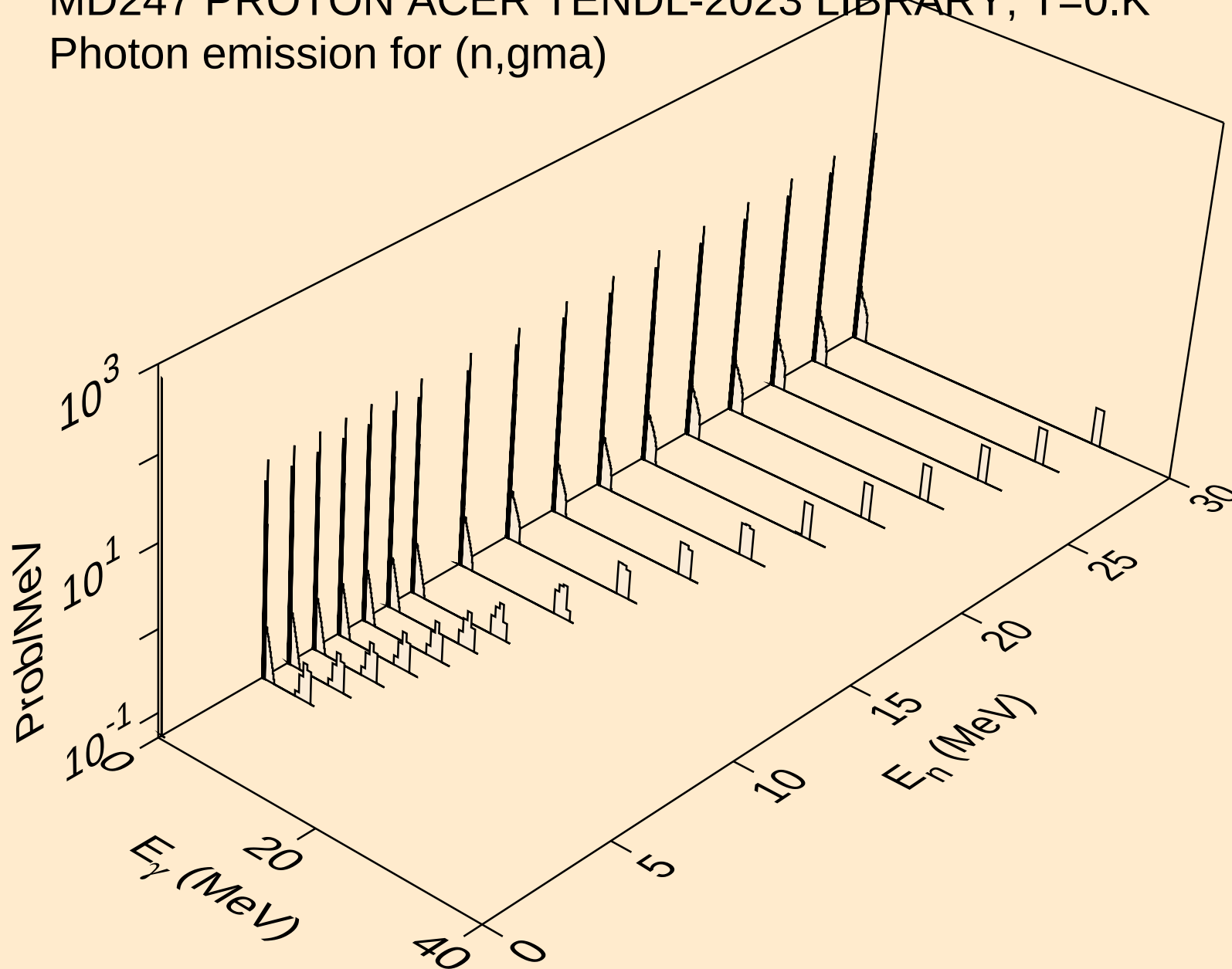
MD247 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2np)



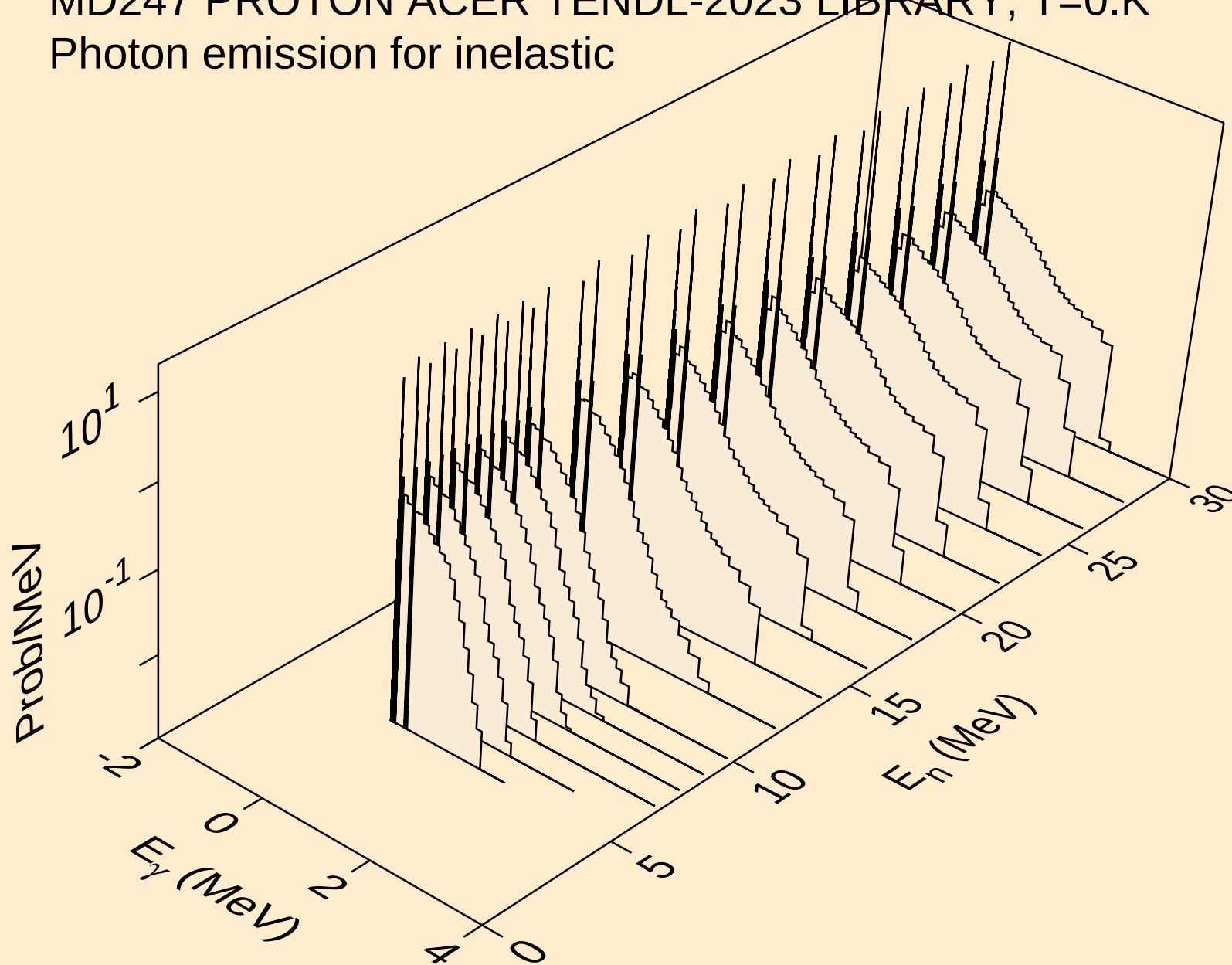
MD247 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,npa)



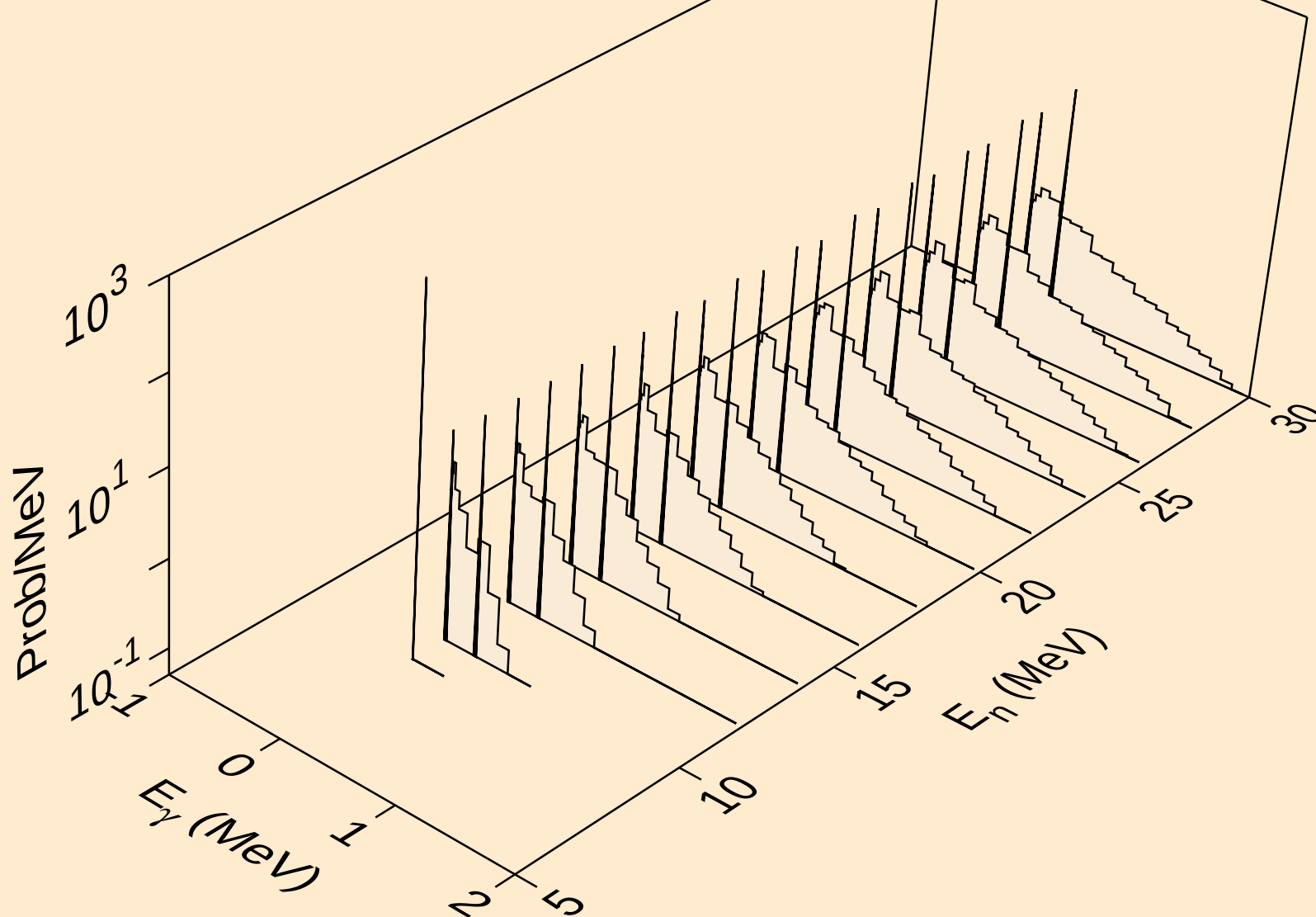
MD247 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,gma)



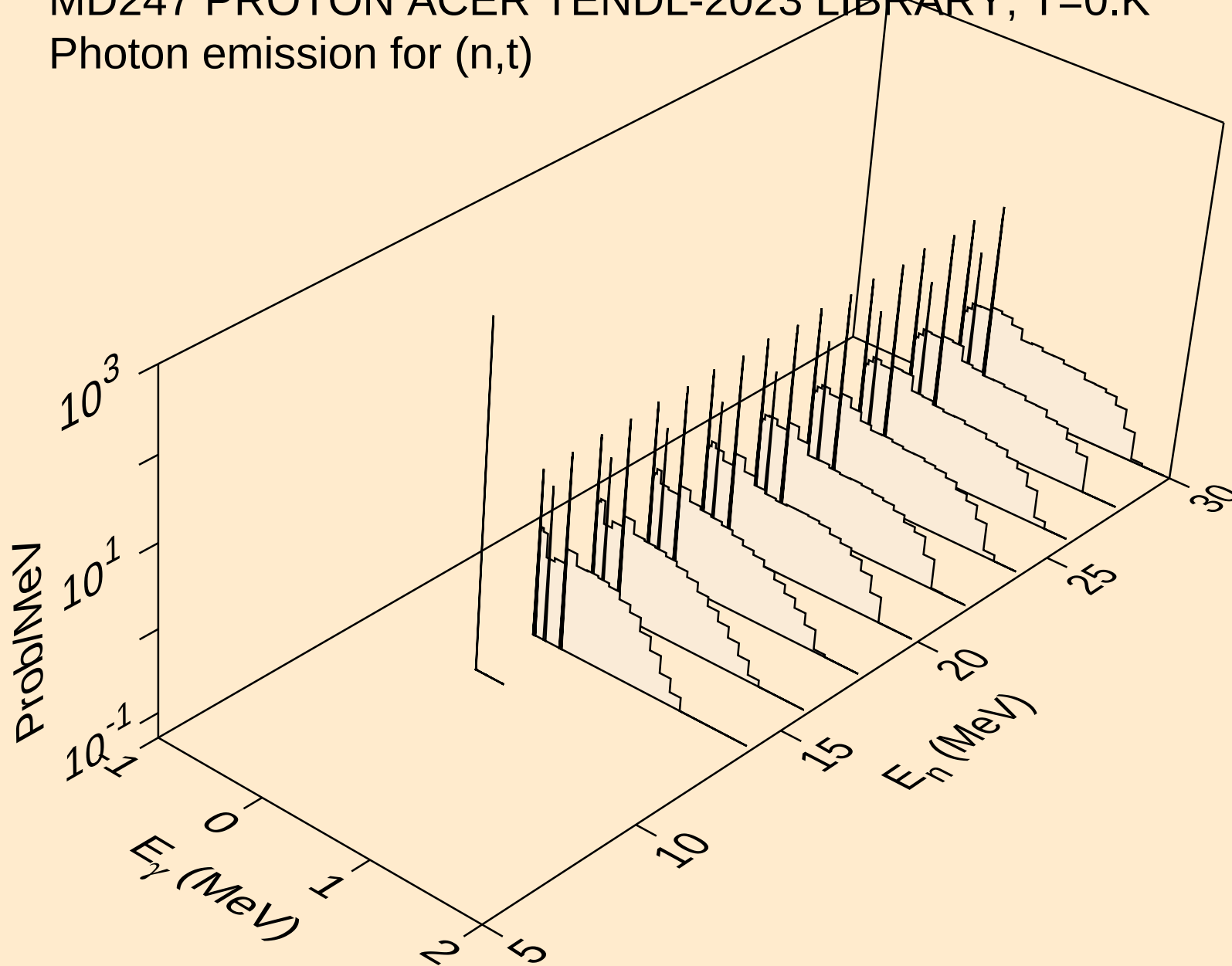
MD247 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for inelastic



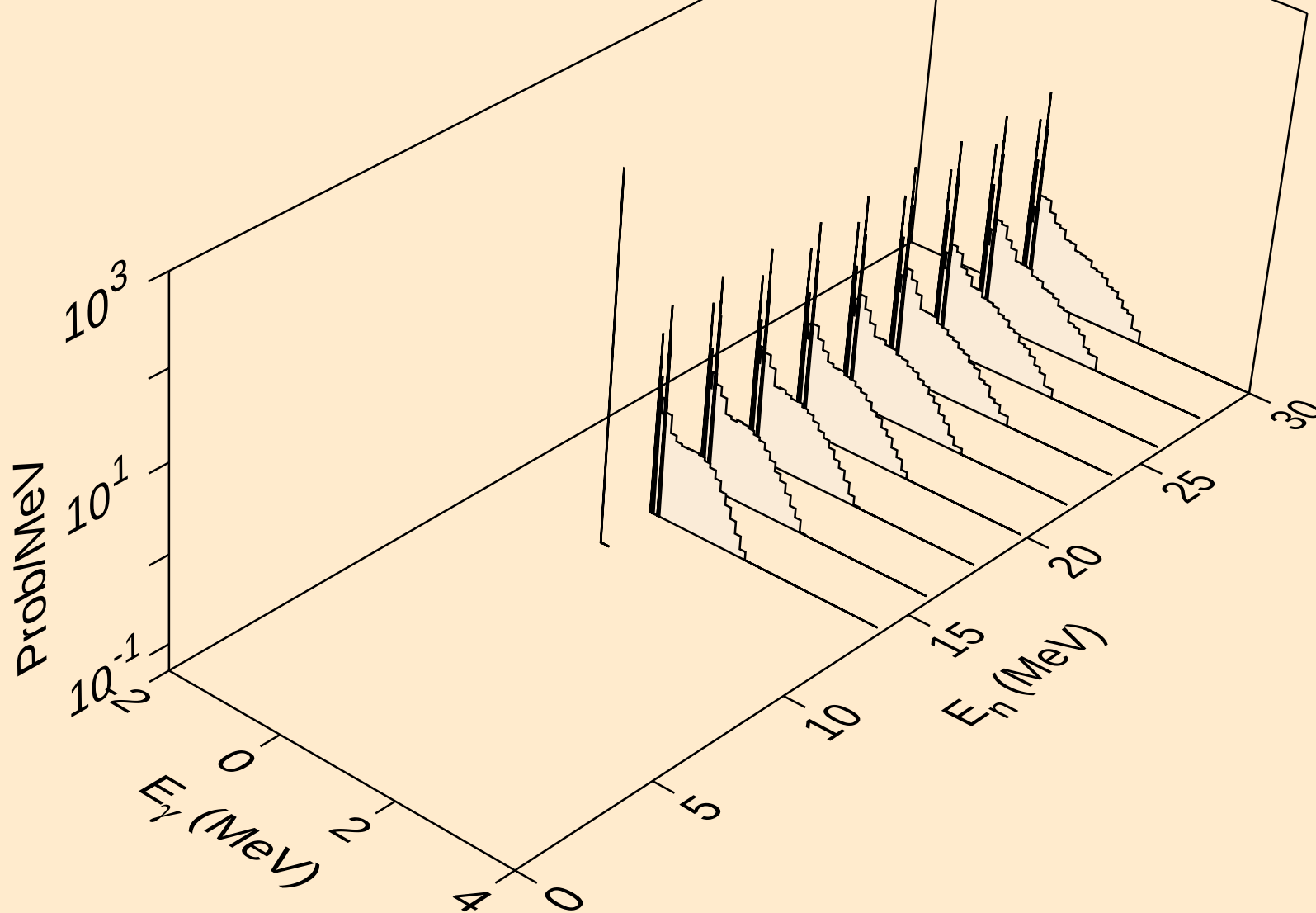
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Photon emission for (n,d)



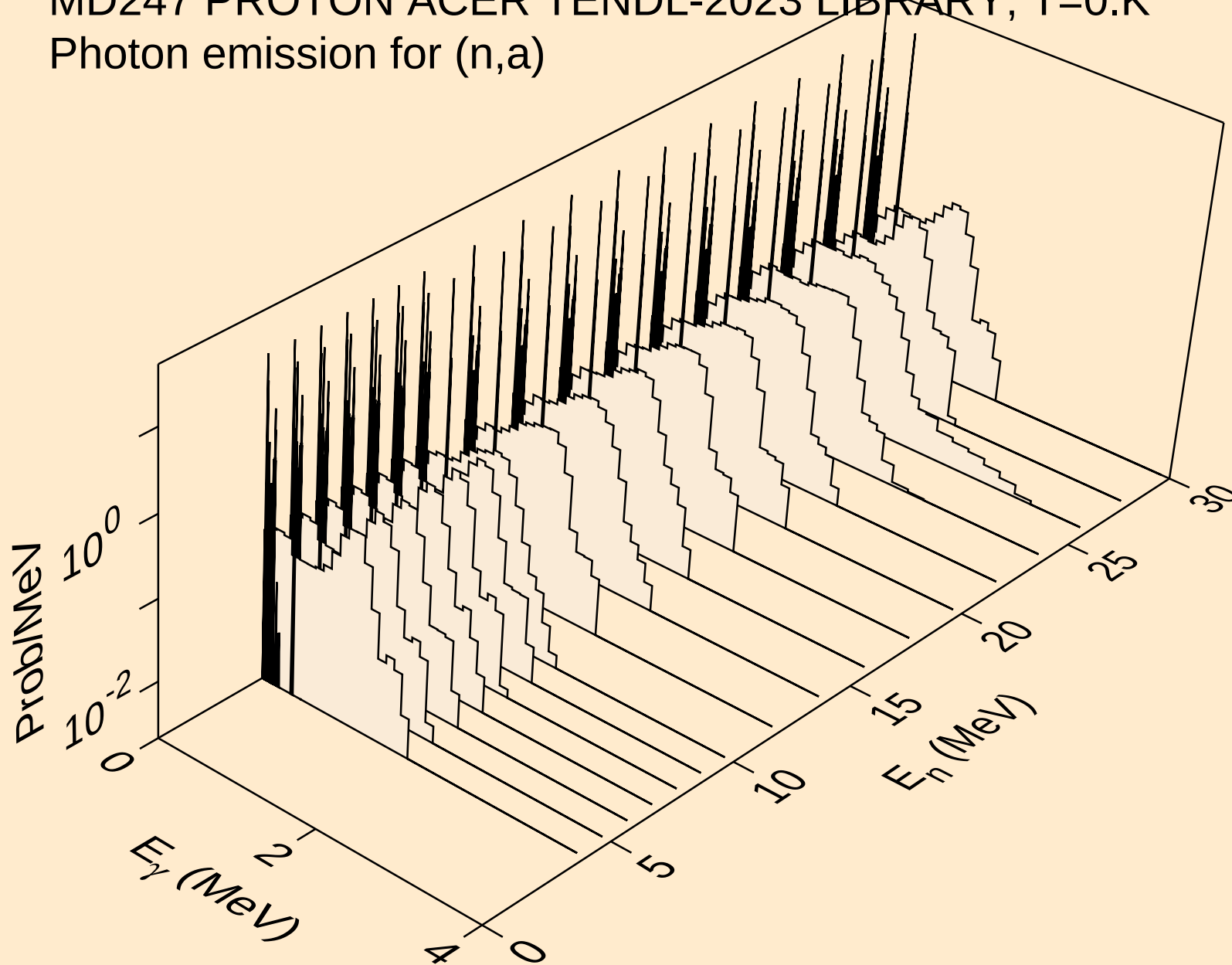
MD247 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,t)



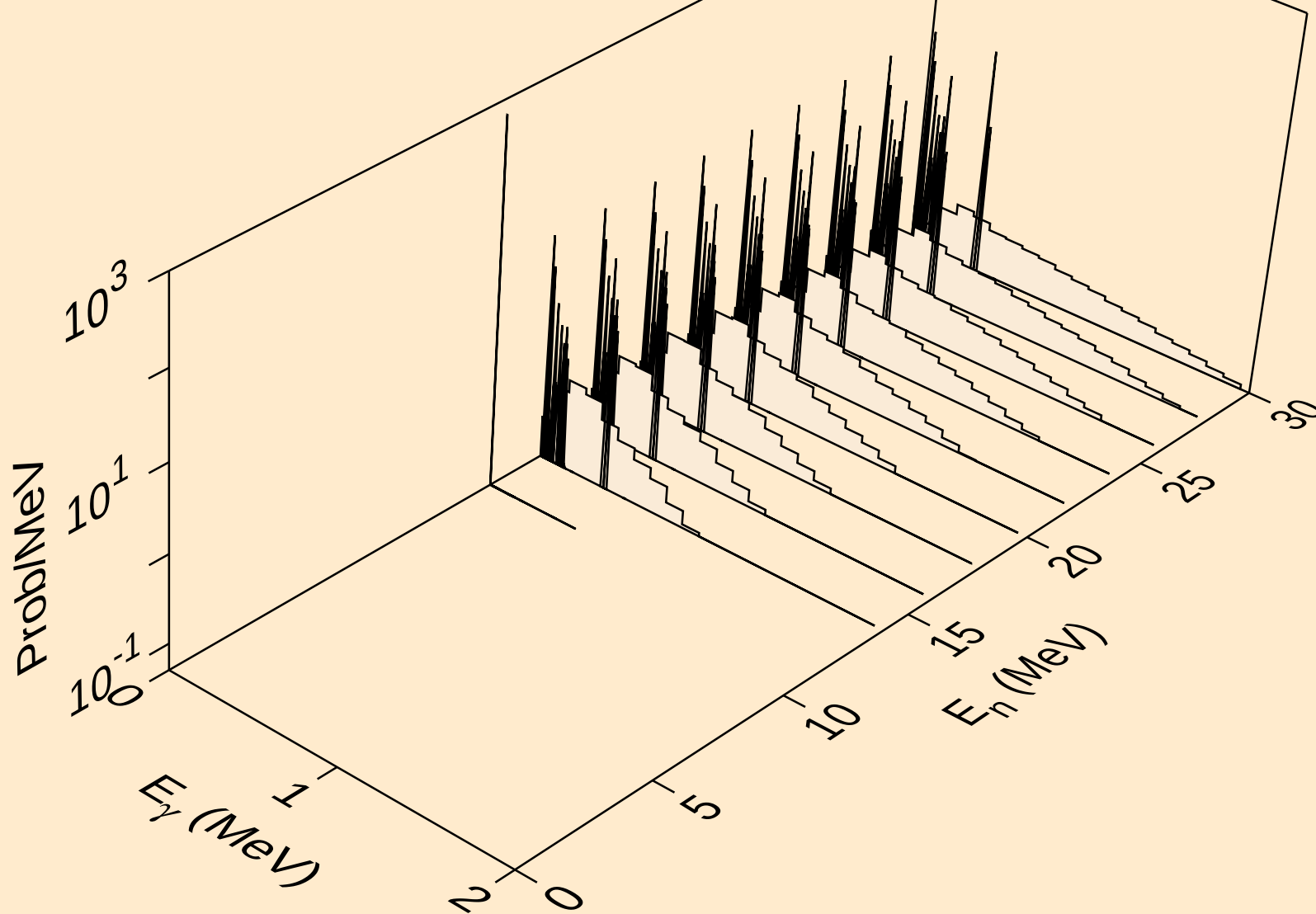
MD247 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,he3)



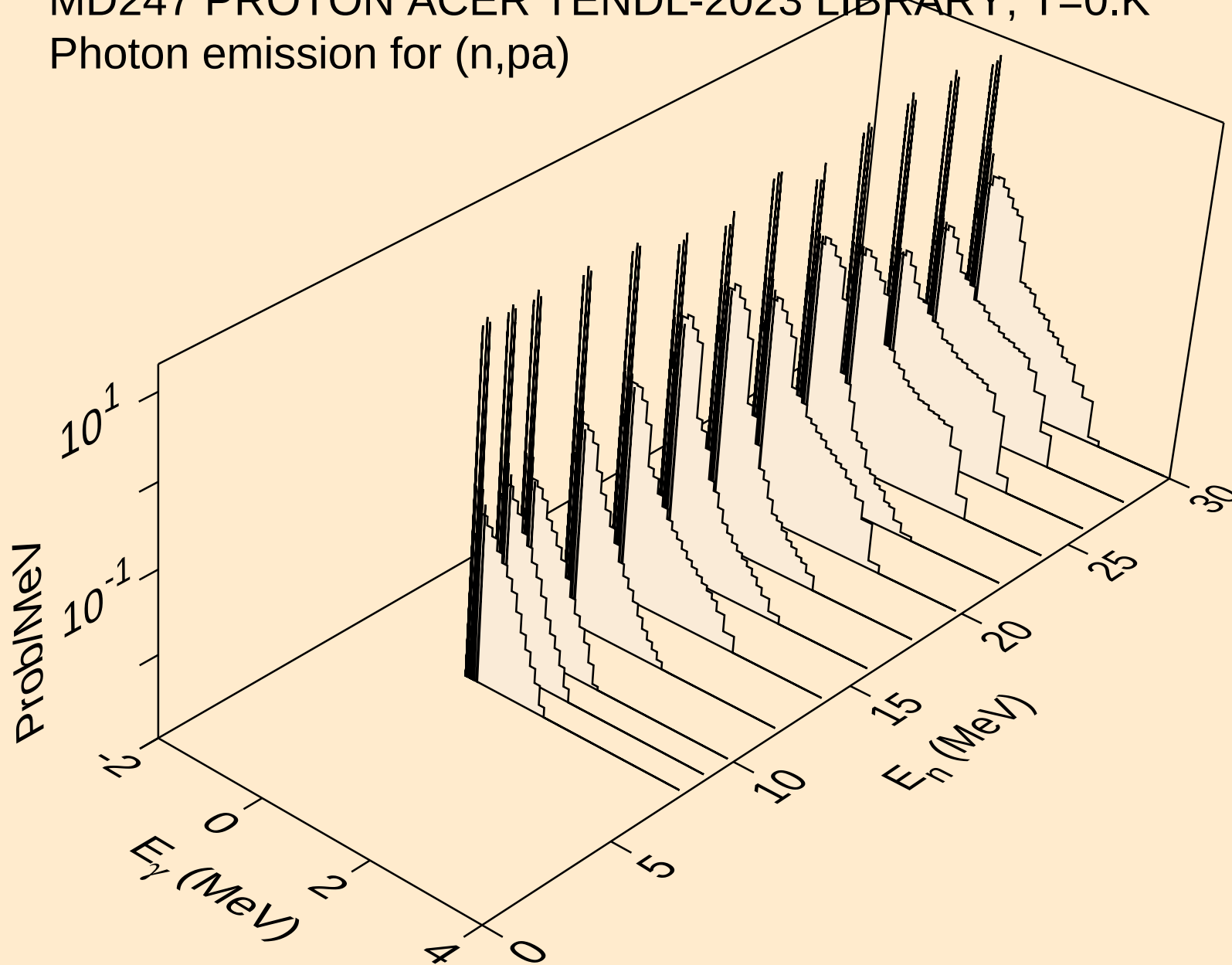
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Photon emission for (n,a)



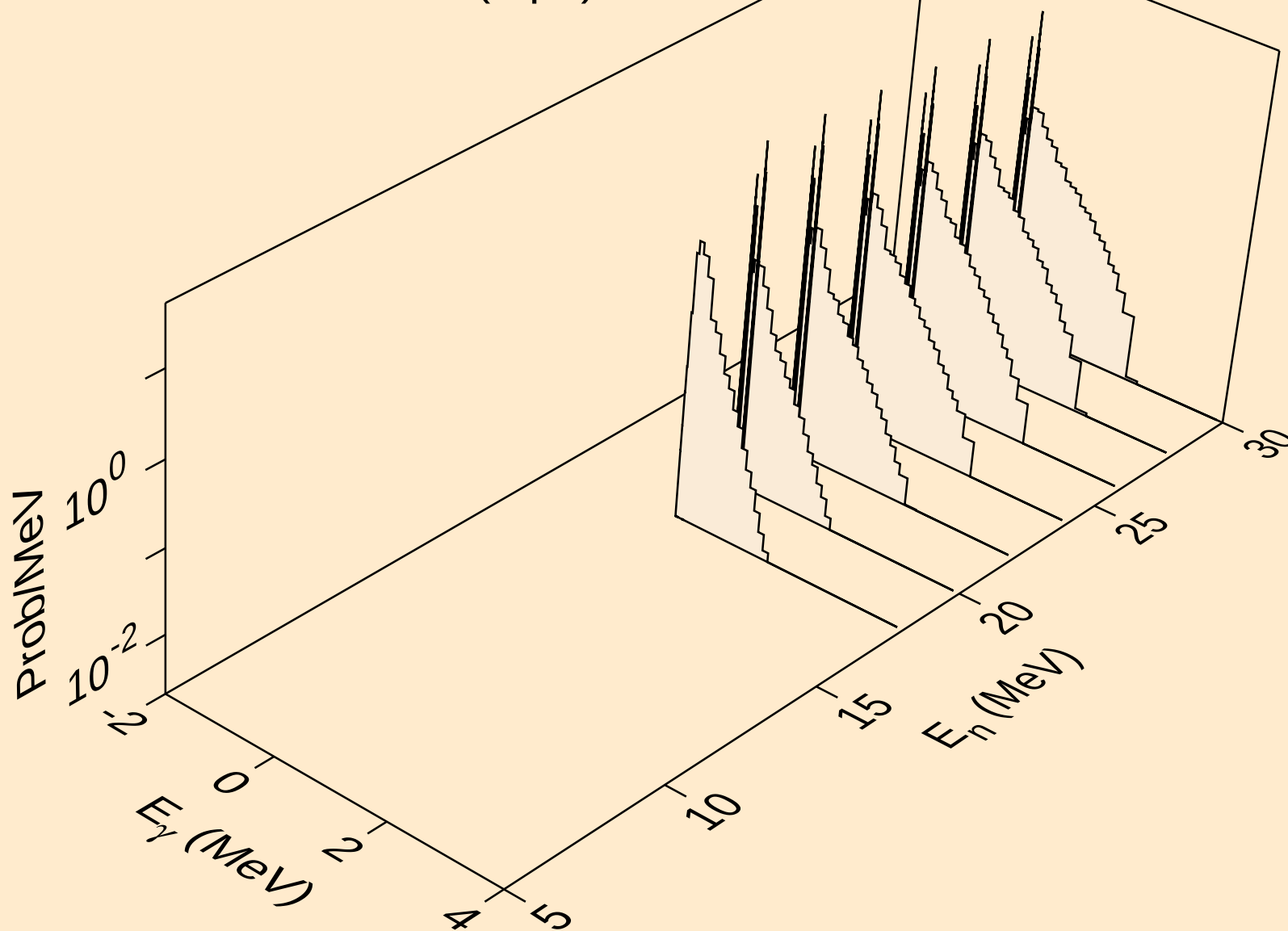
MD247 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2p)



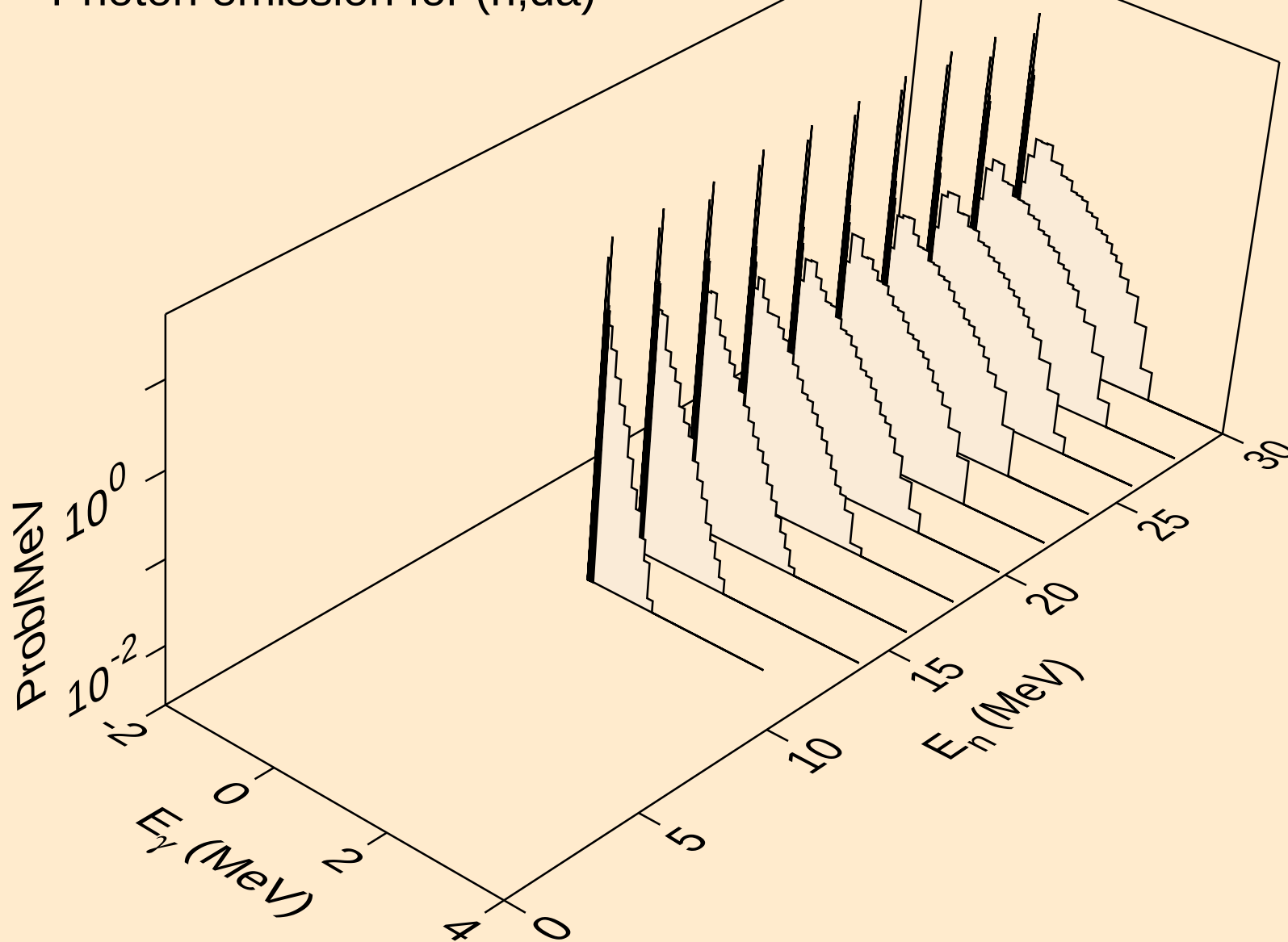
MD247 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,p) $\alpha$



MD247 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,pd)

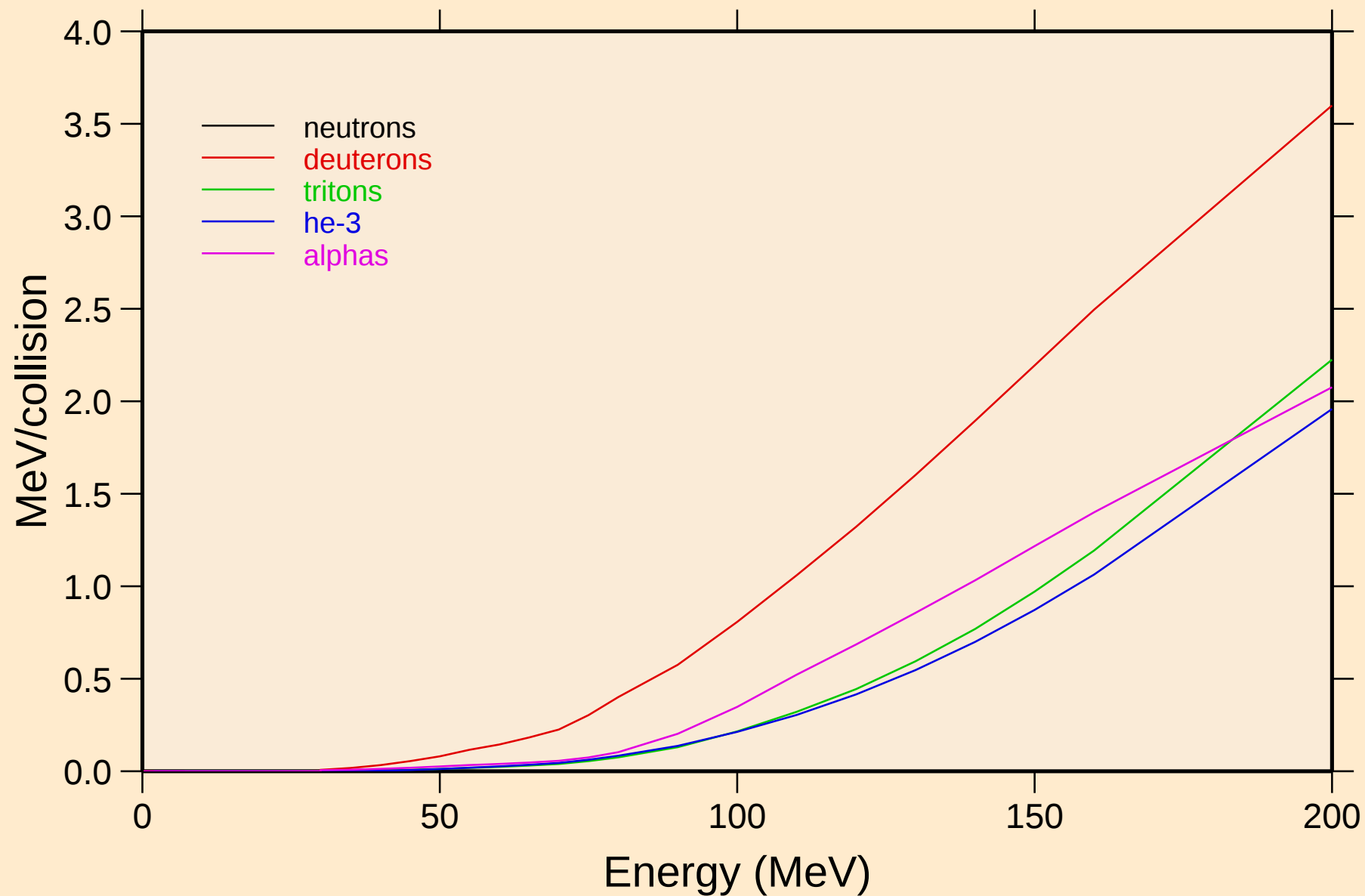


MD247 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,da)



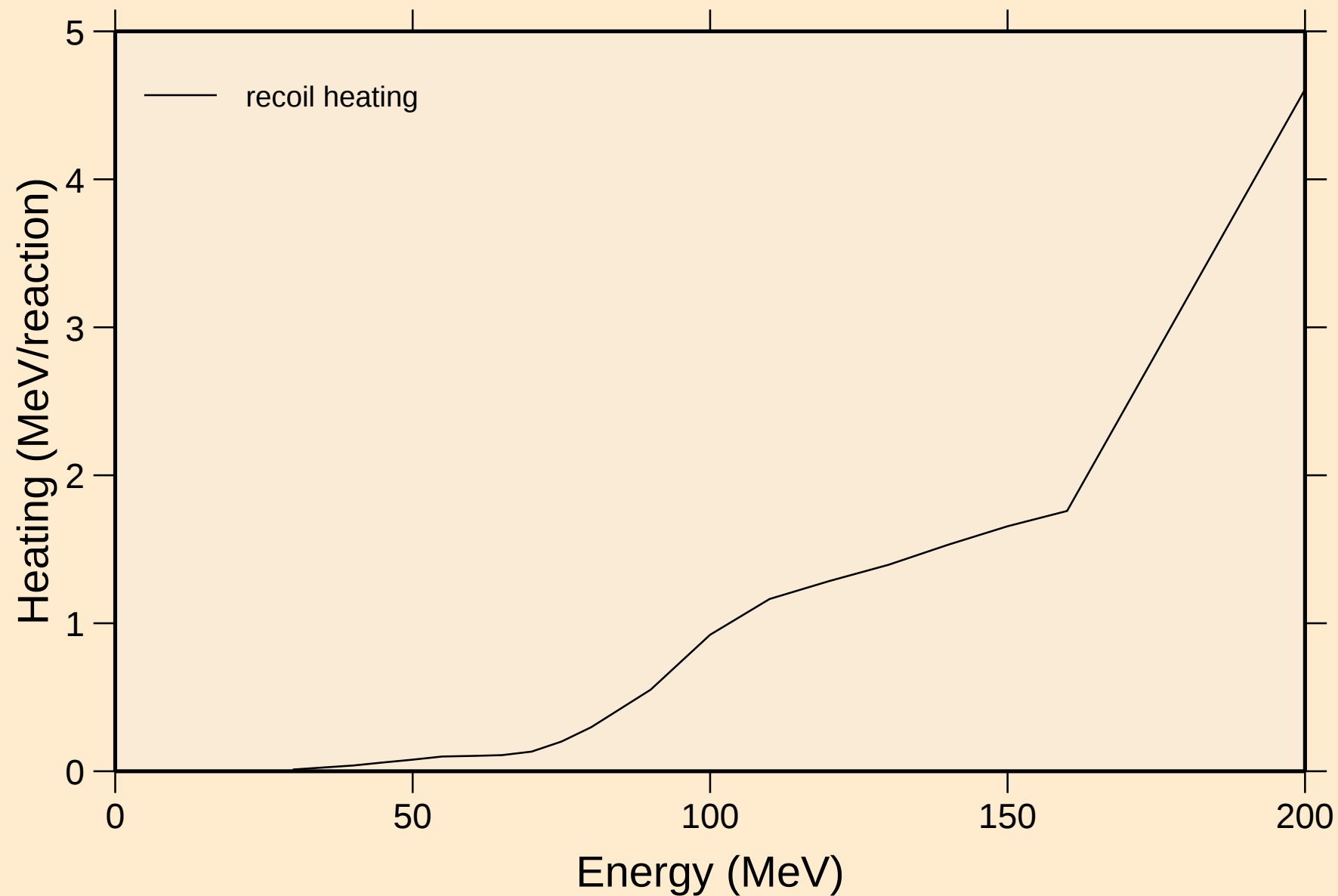
# MD247 PROTON ACER TENDL-2023 LIBRARY; T=0.K

## Particle heating contributions



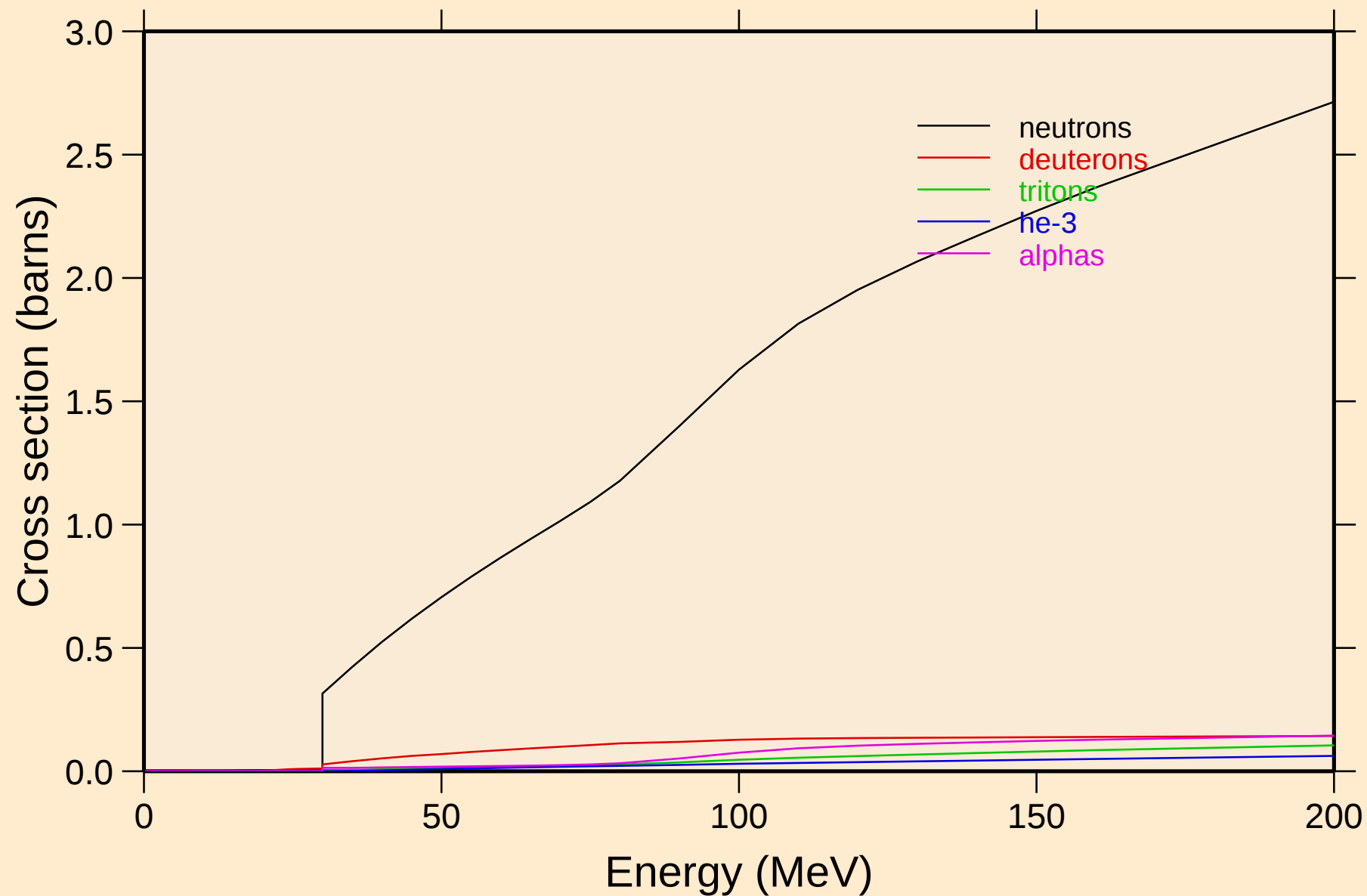
MD247 PROTON ACER TENDL-2023 LIBRARY; T=0.K

Recoil Heating

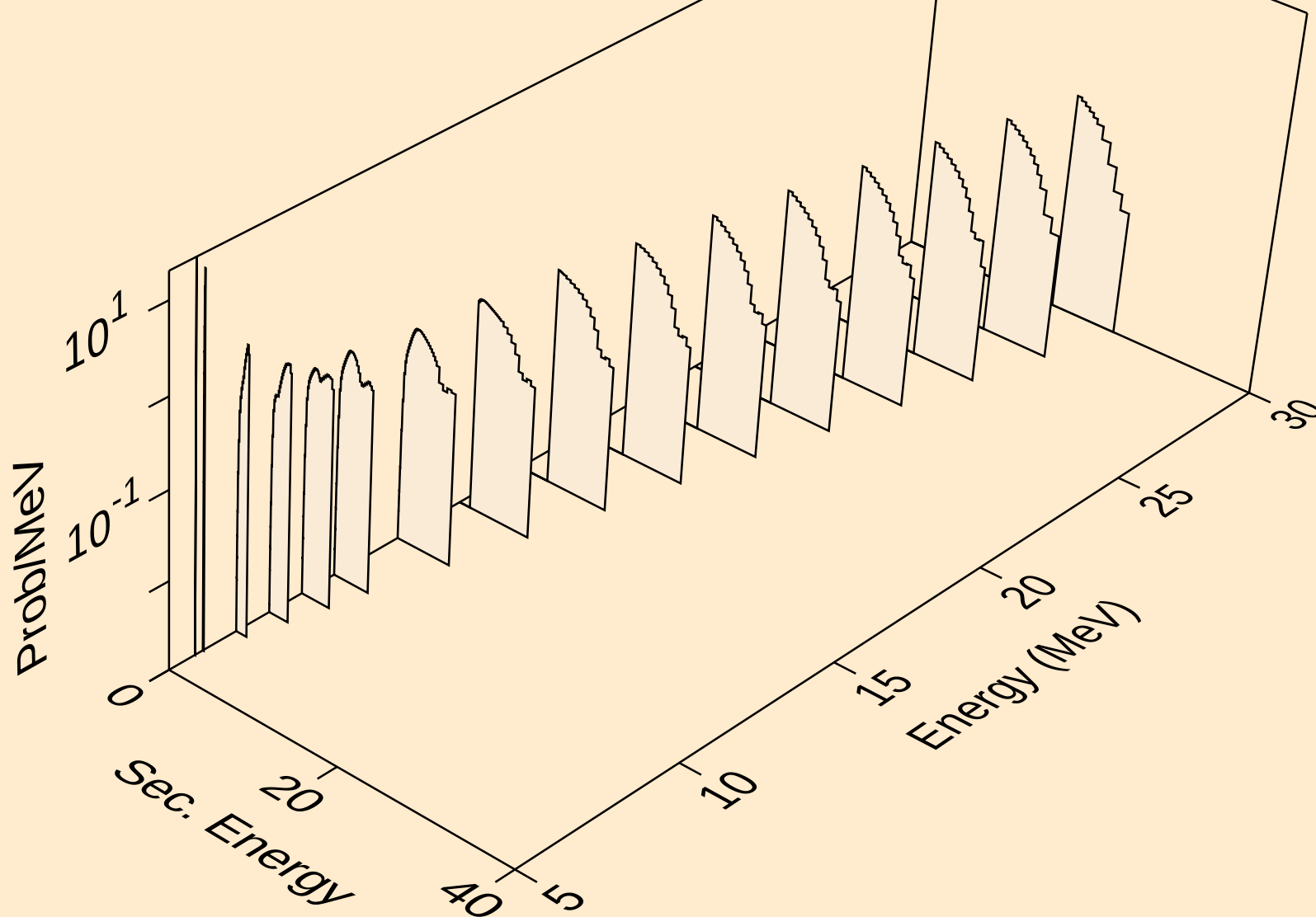


# MD247 PROTON ACER TENDL-2023 LIBRARY; T=0.K

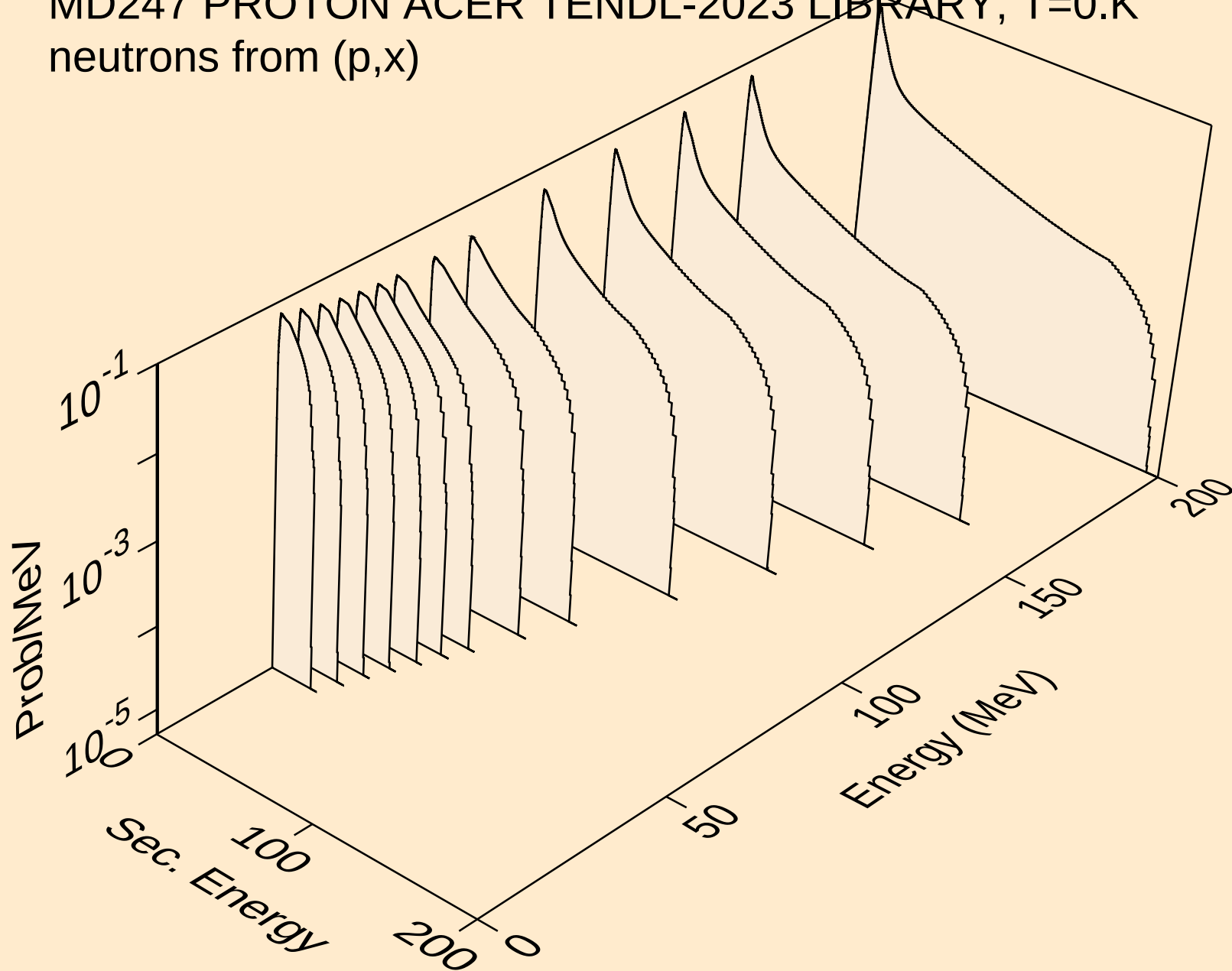
## Particle production cross sections



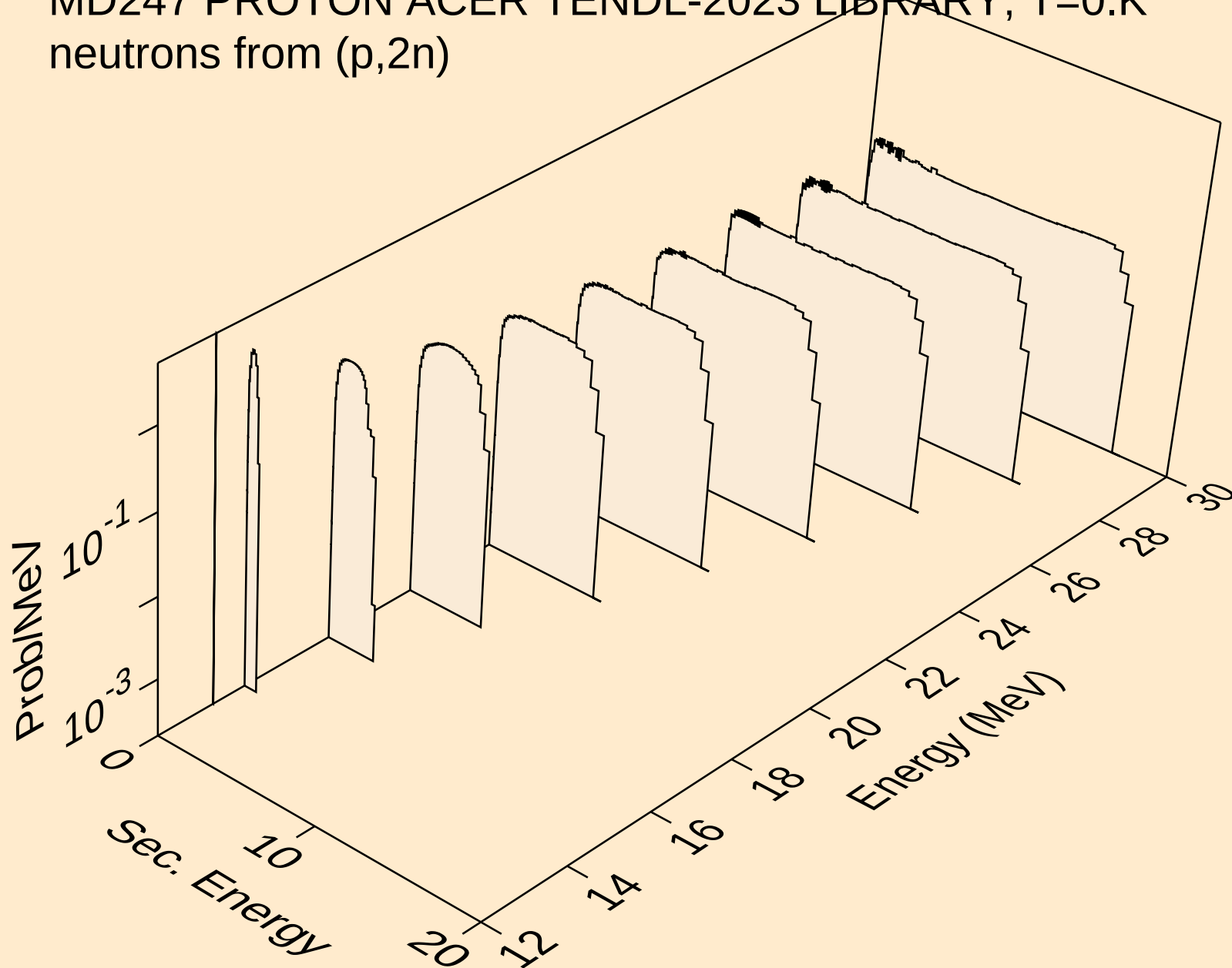
MD247 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (p,n)



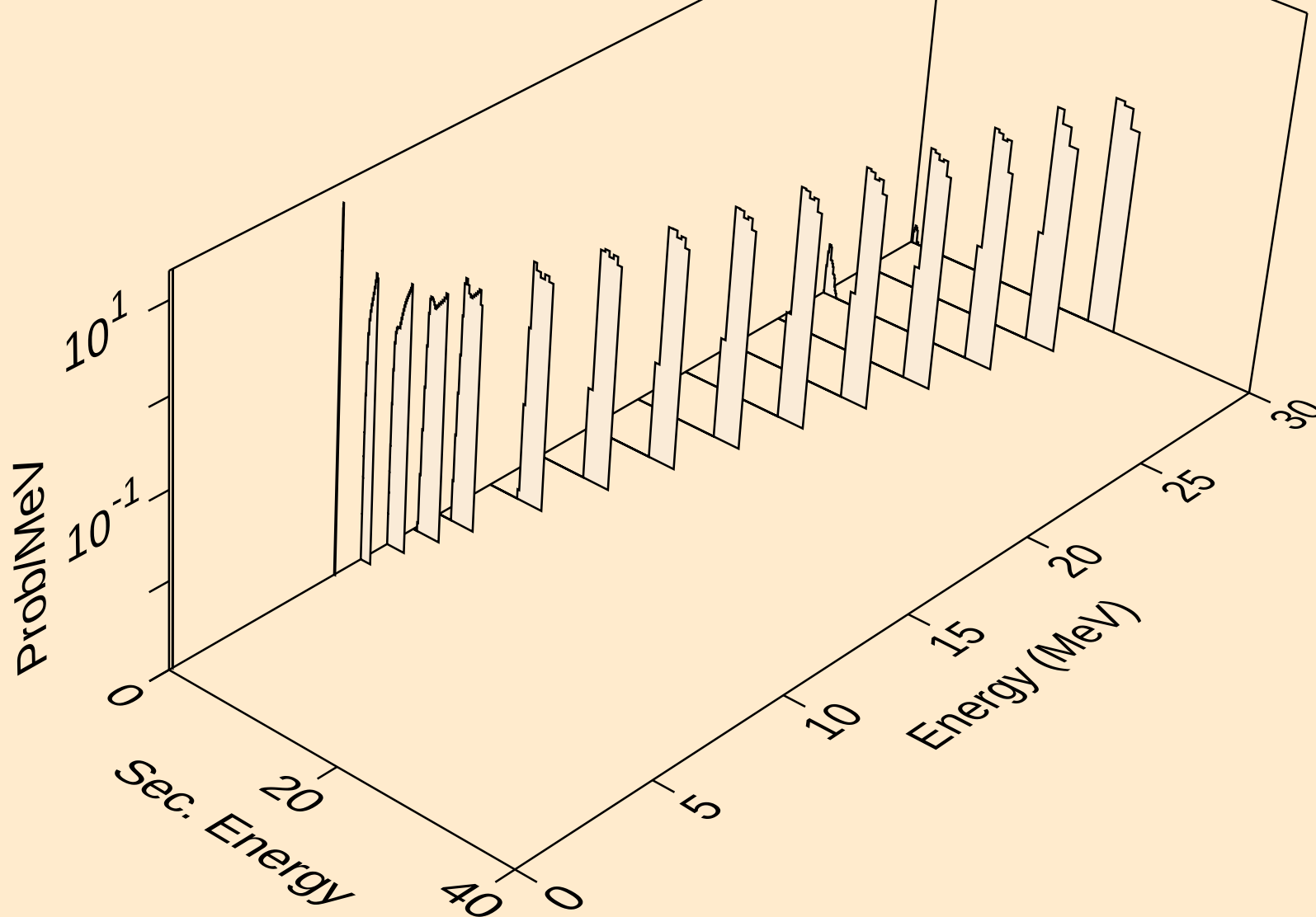
MD247 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (p,x)



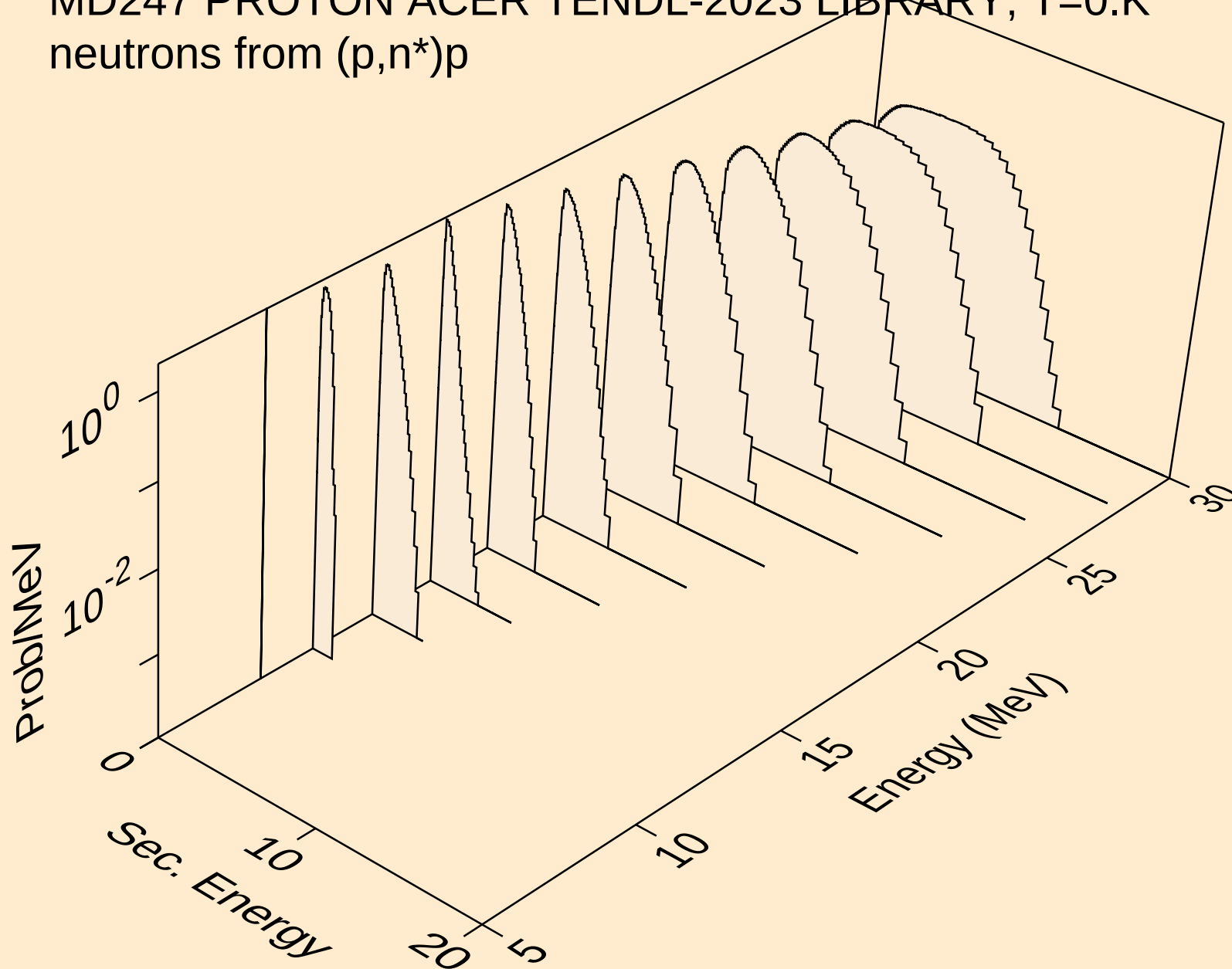
MD247 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (p,2n)



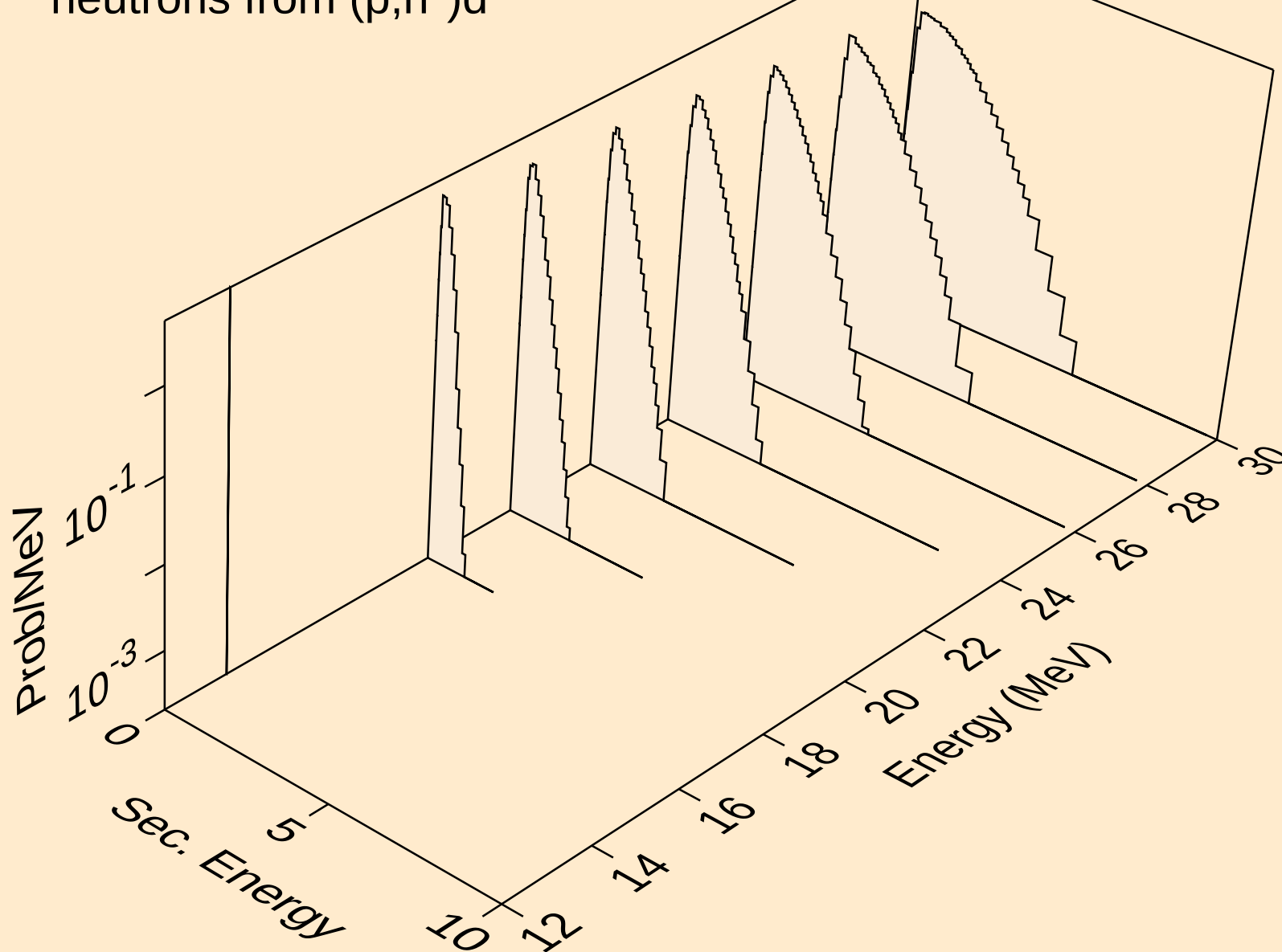
MD247 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (p,n\*)a



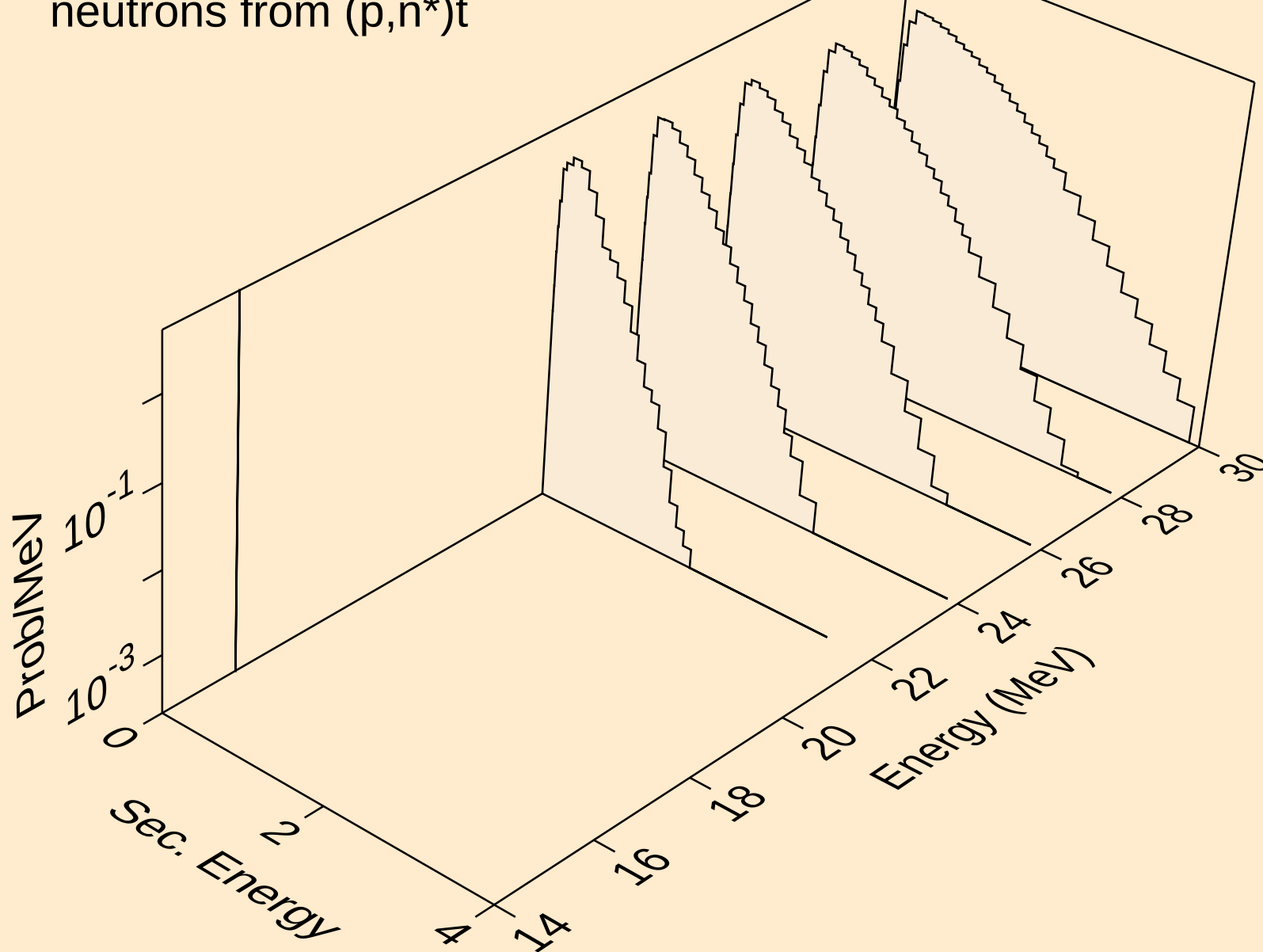
MD247 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (p,n\*)p



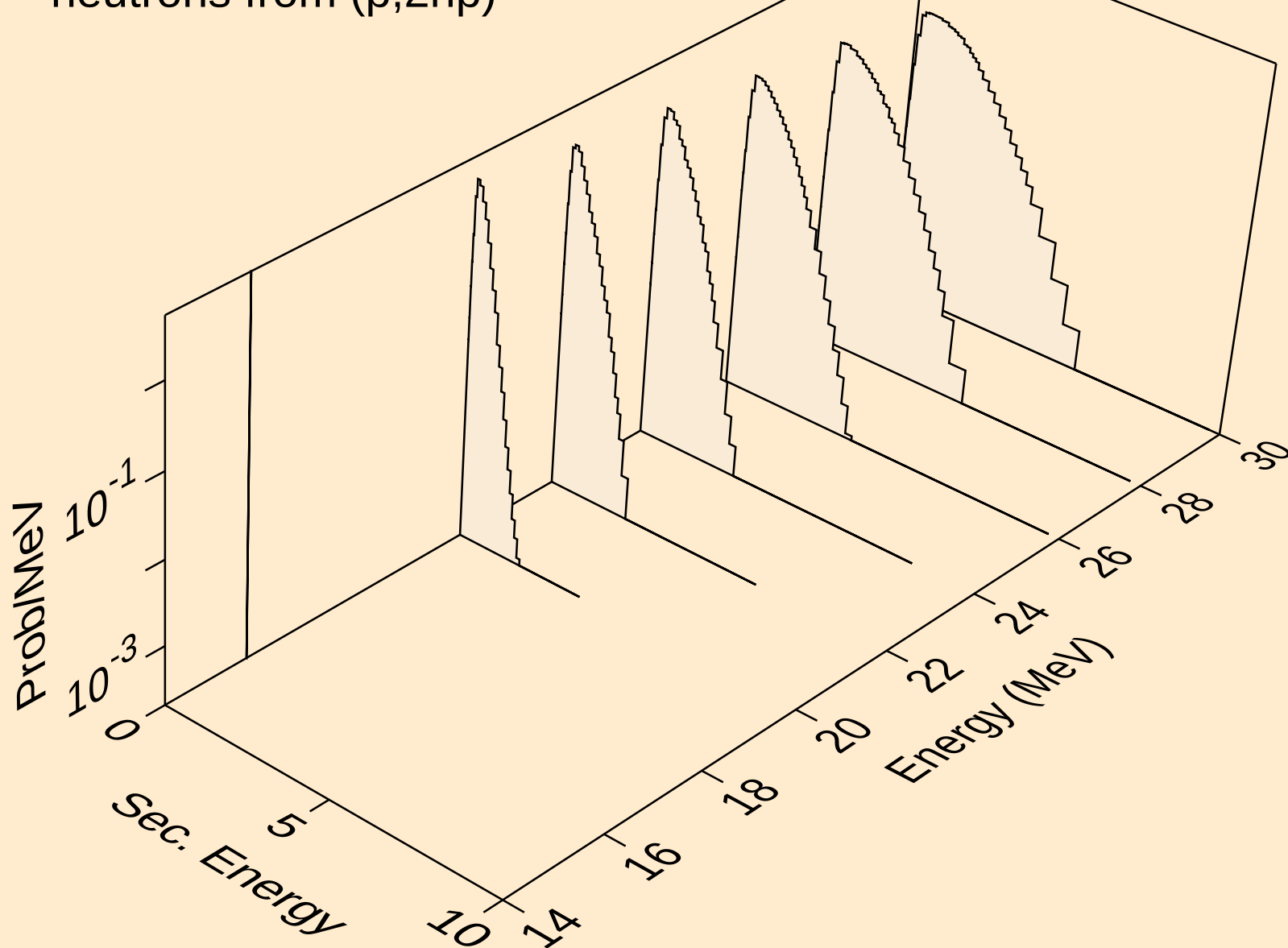
MD247 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (p,n\*)d



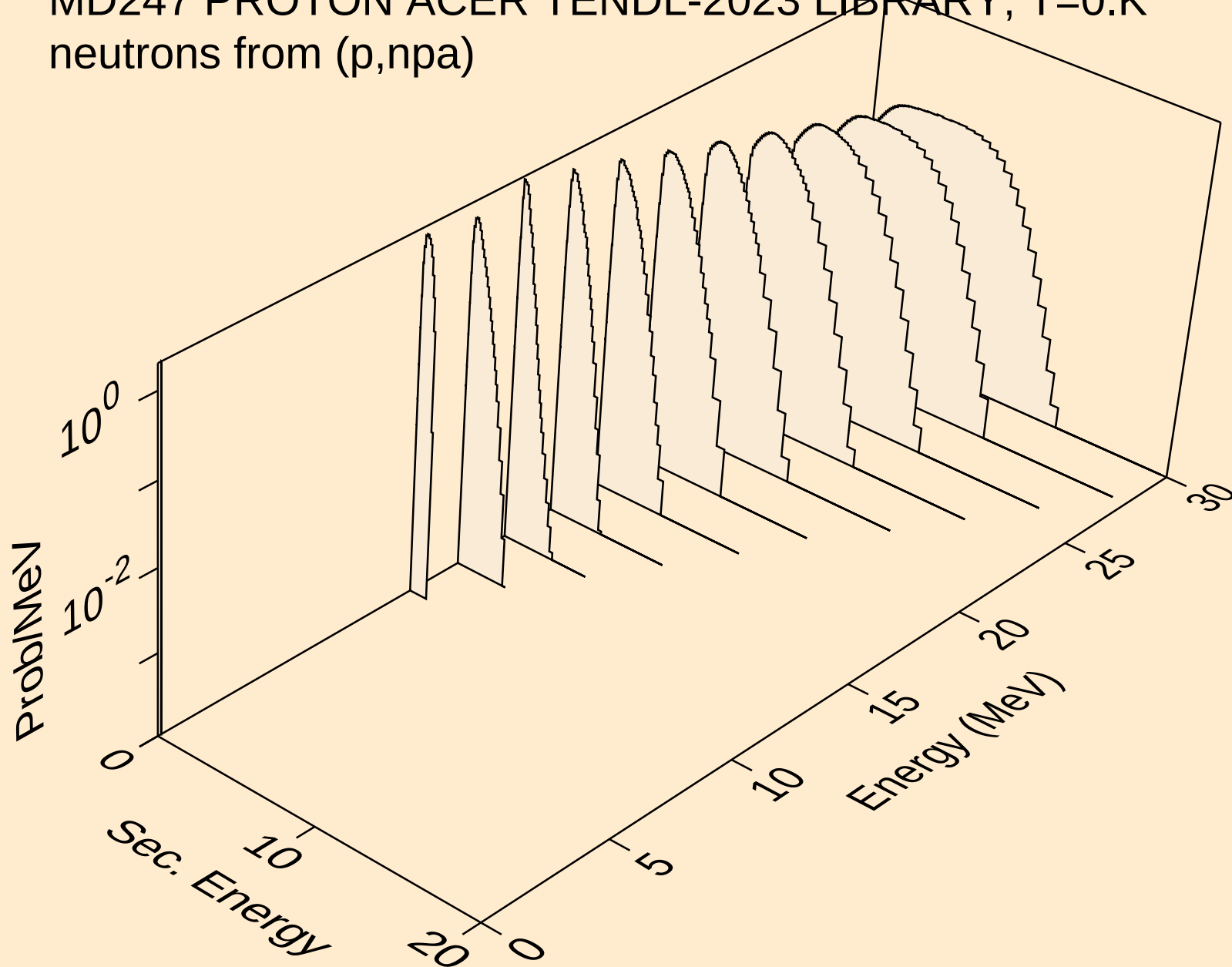
MD247 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (p,n\*)t



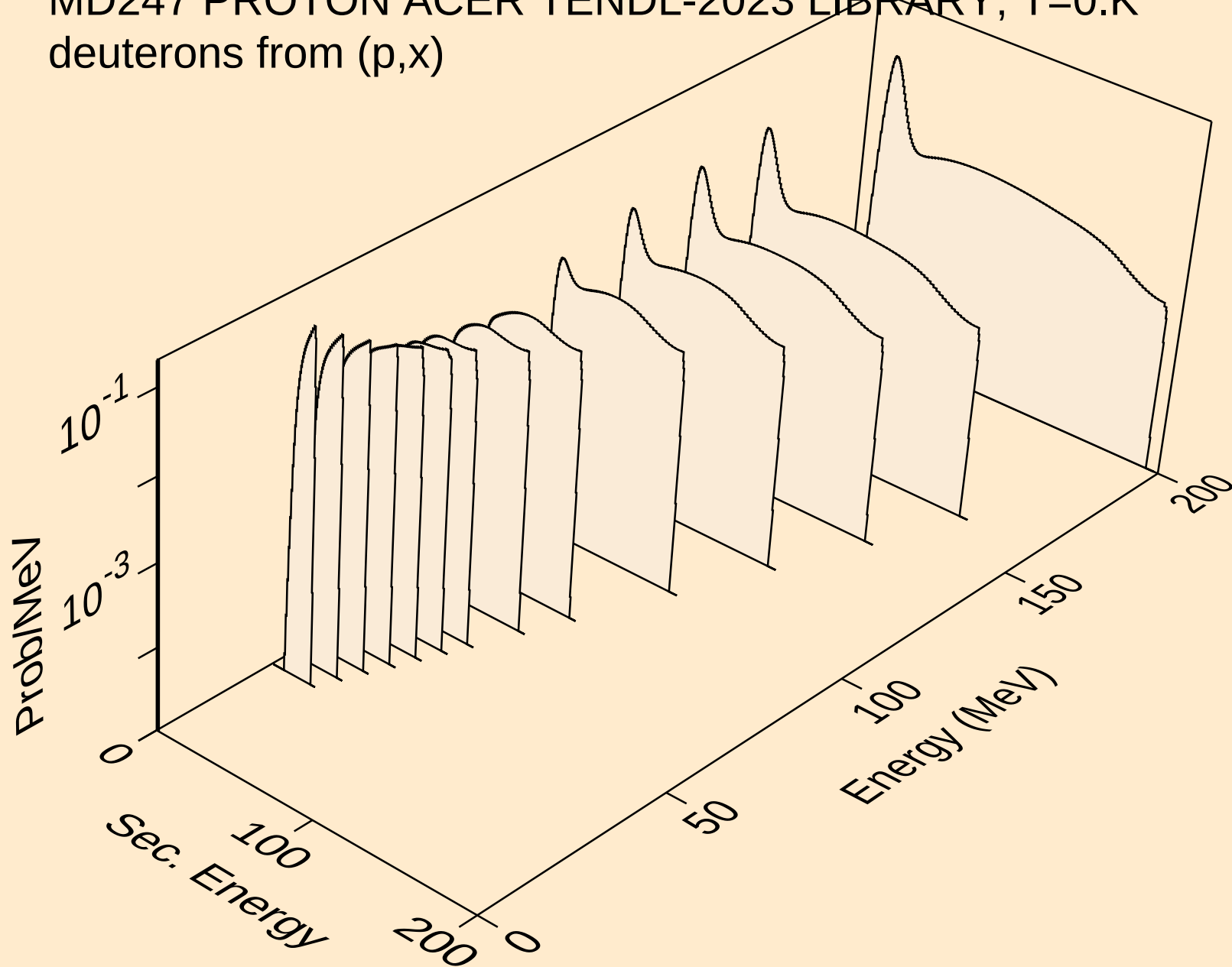
MD247 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (p,2np)



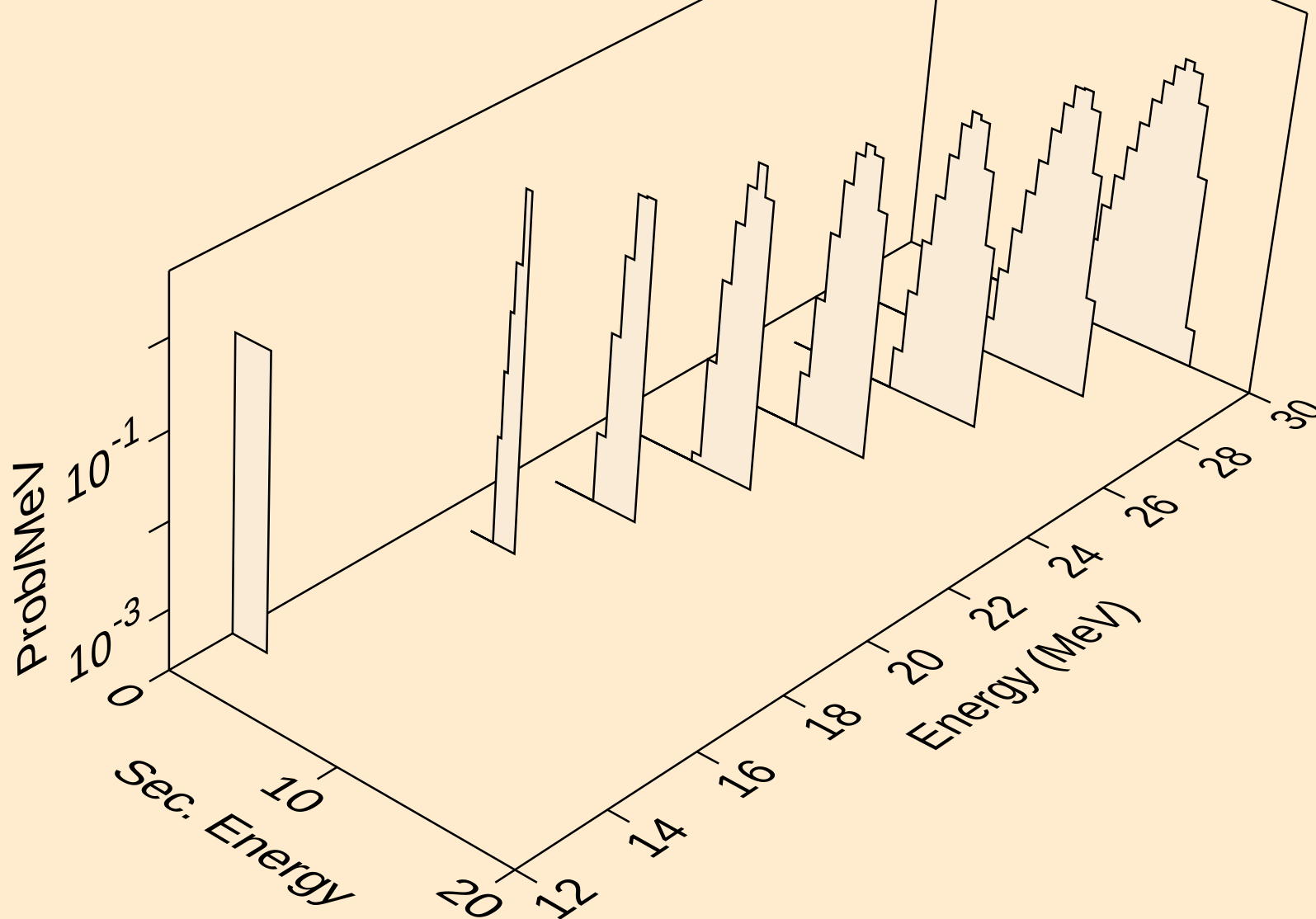
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neutrons from (p,npa)



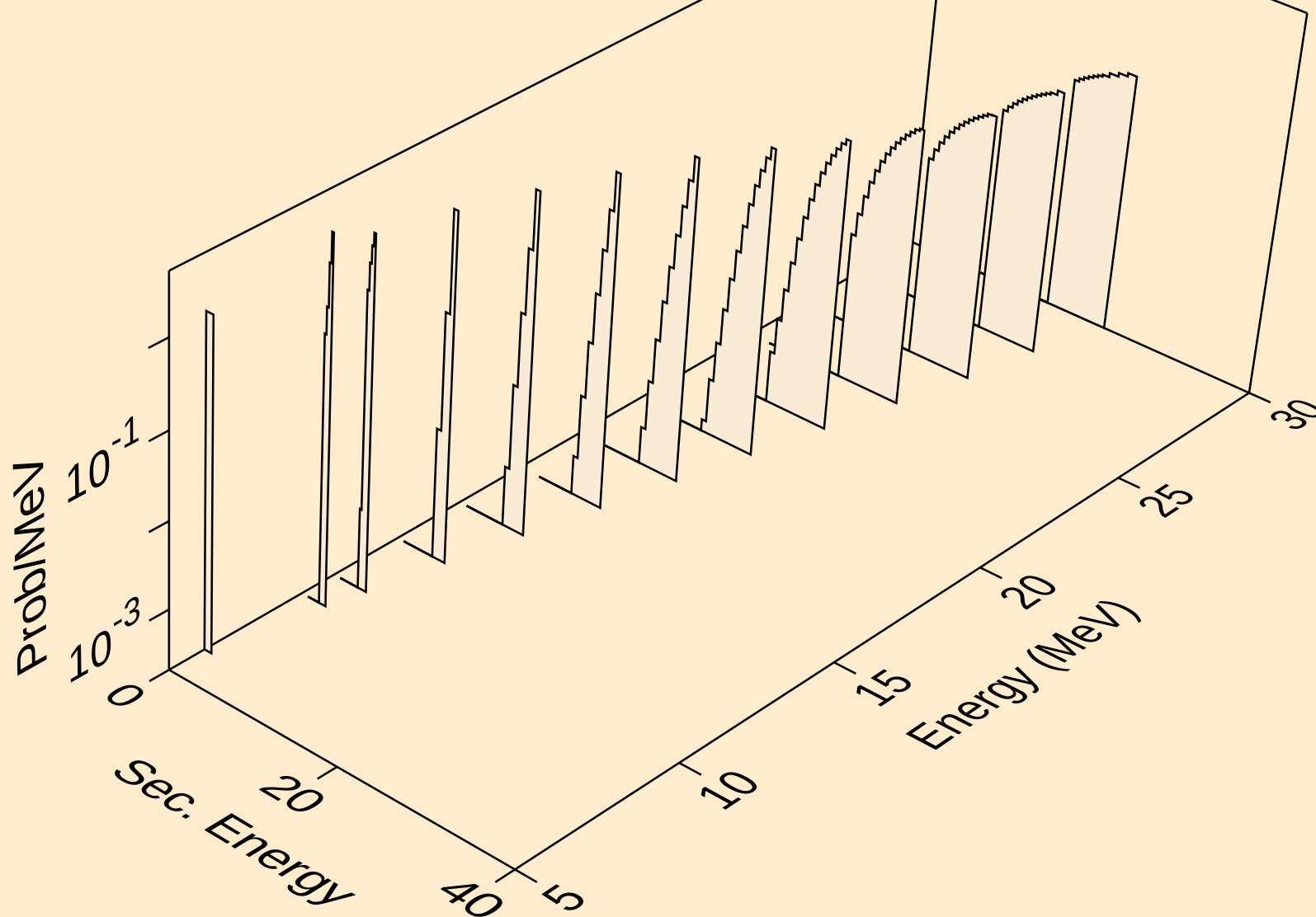
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deuterons from (p,x)



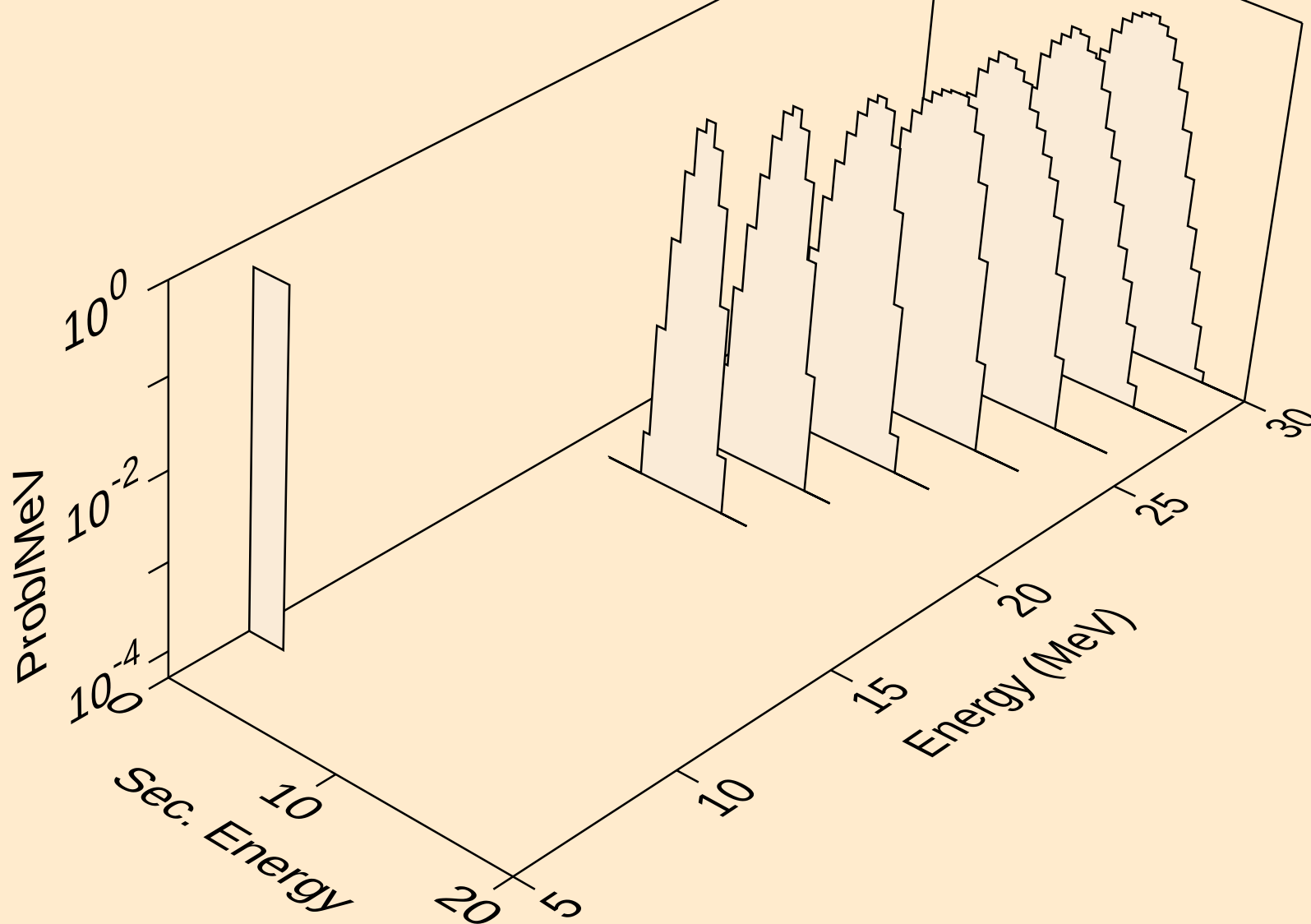
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deuterons from (p,n\*)d



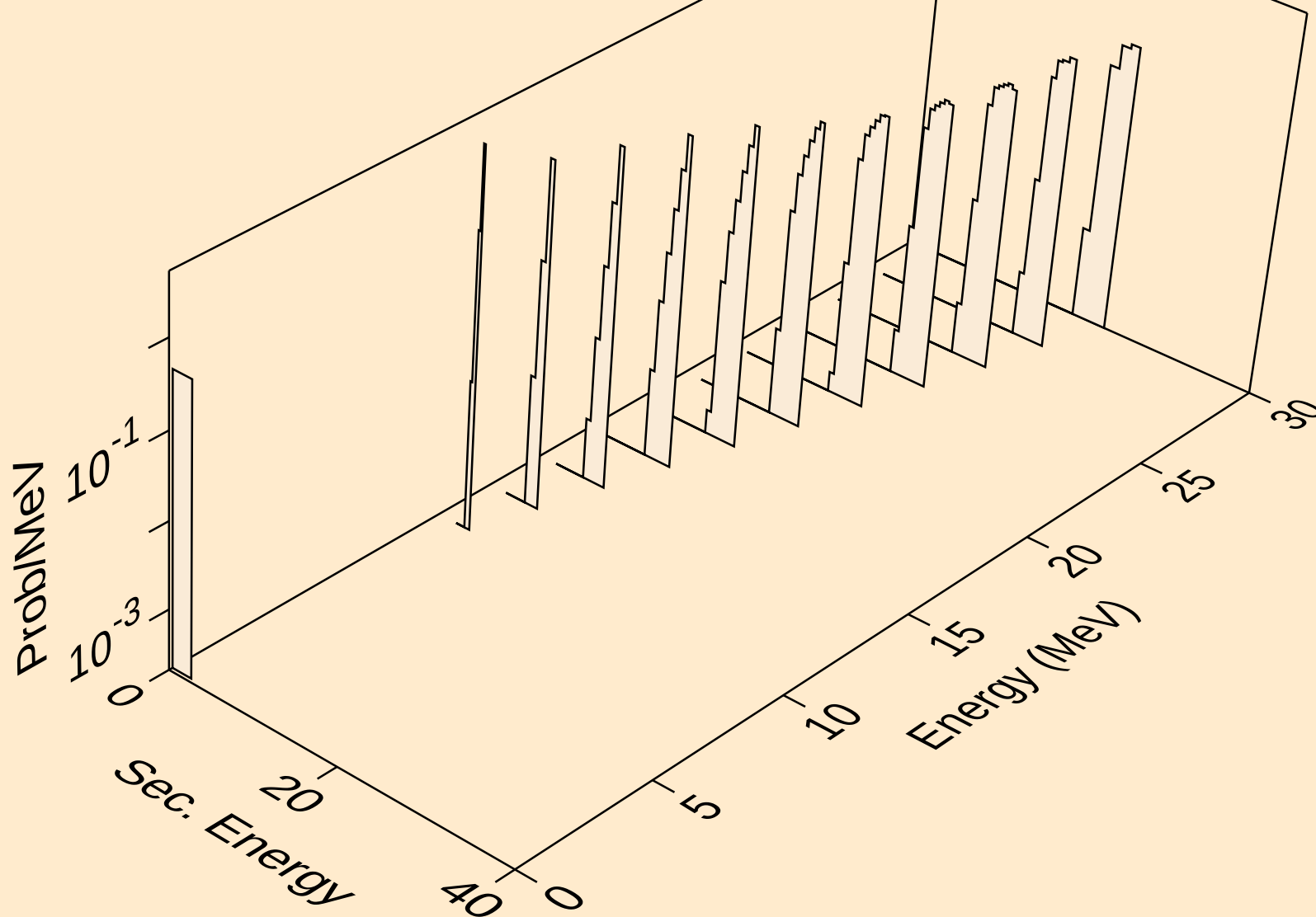
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deuterons from (p,d)



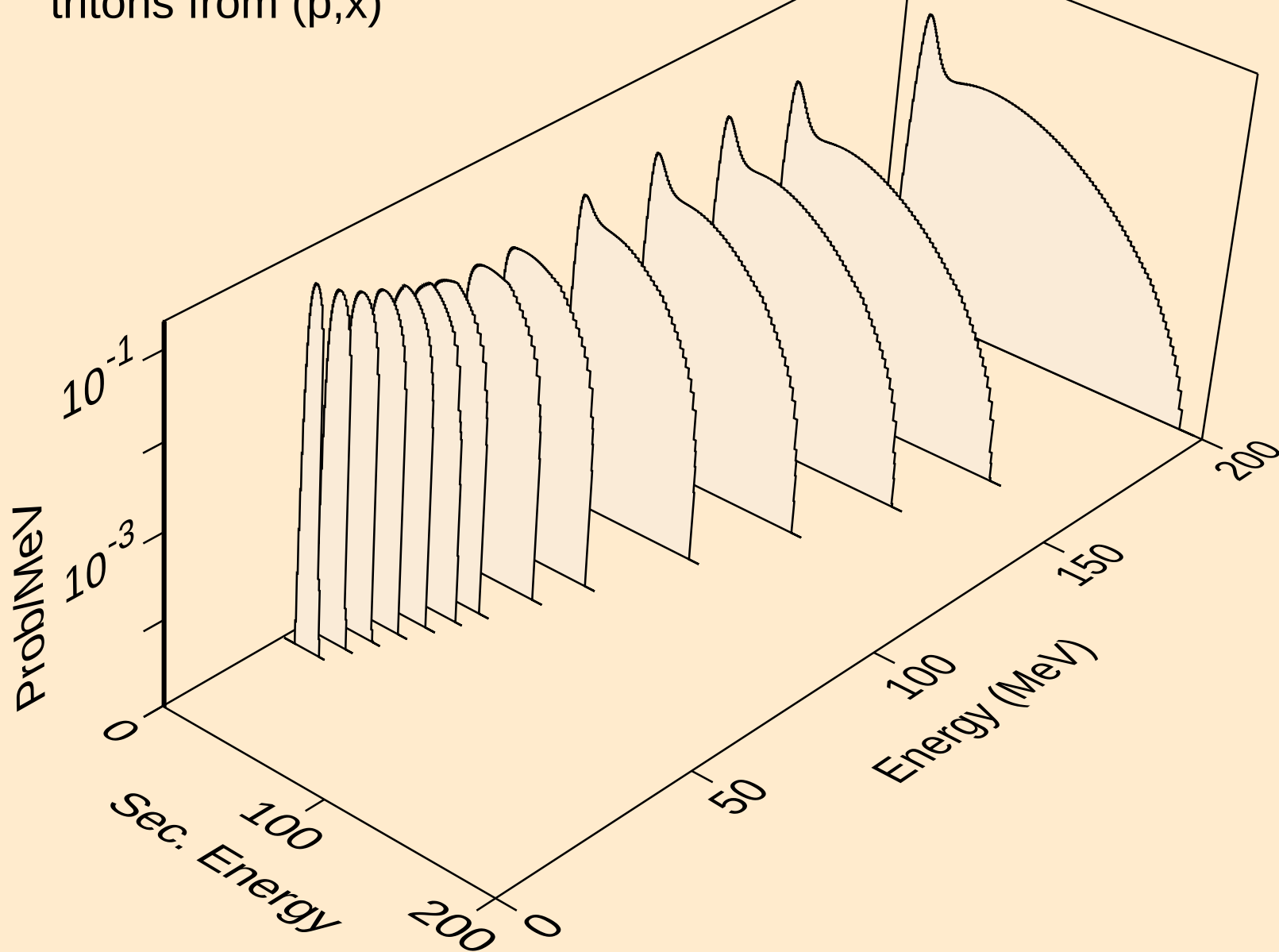
MD247 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
deuterons from (p,pd)



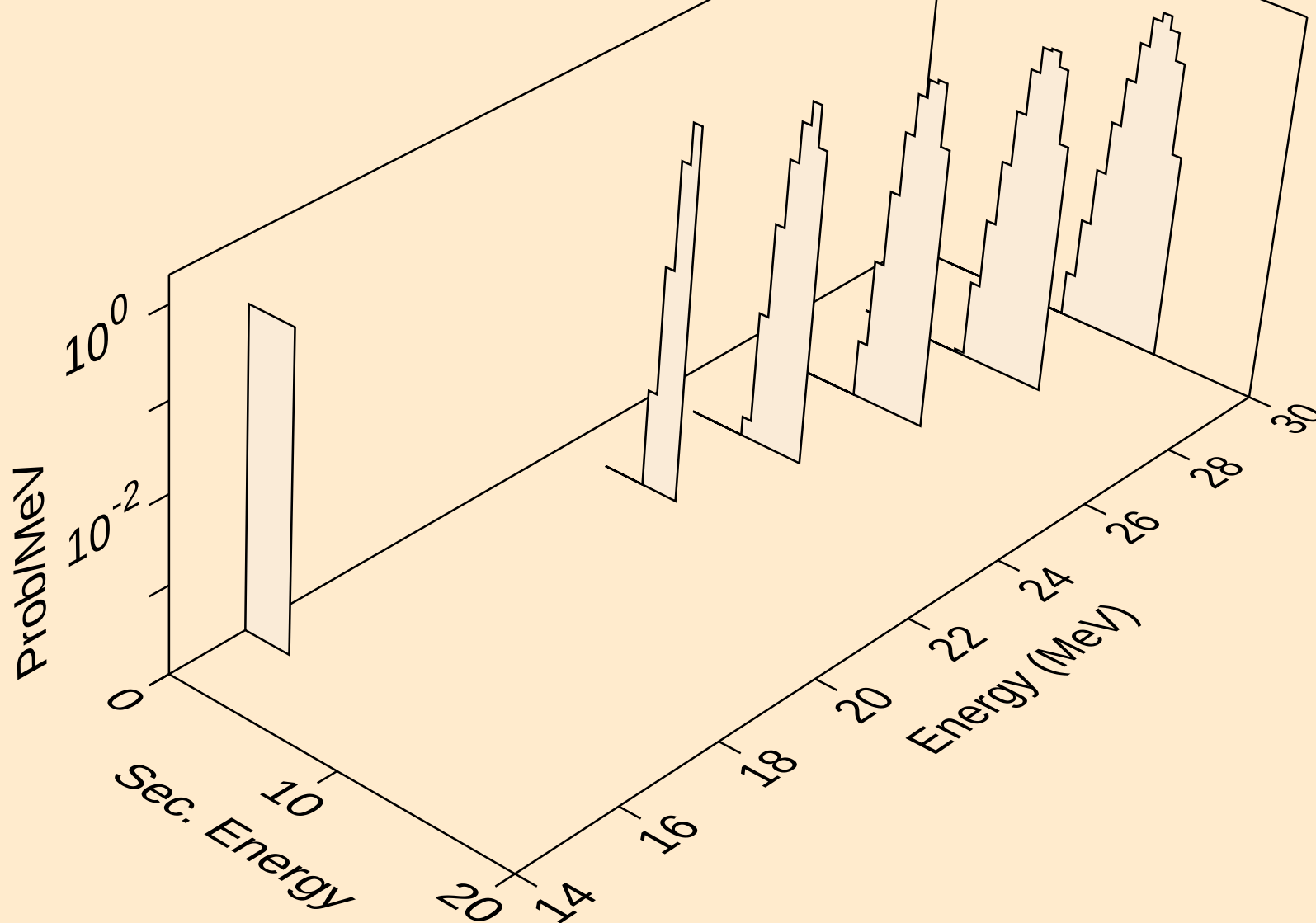
MD247 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
deuterons from (p,da)



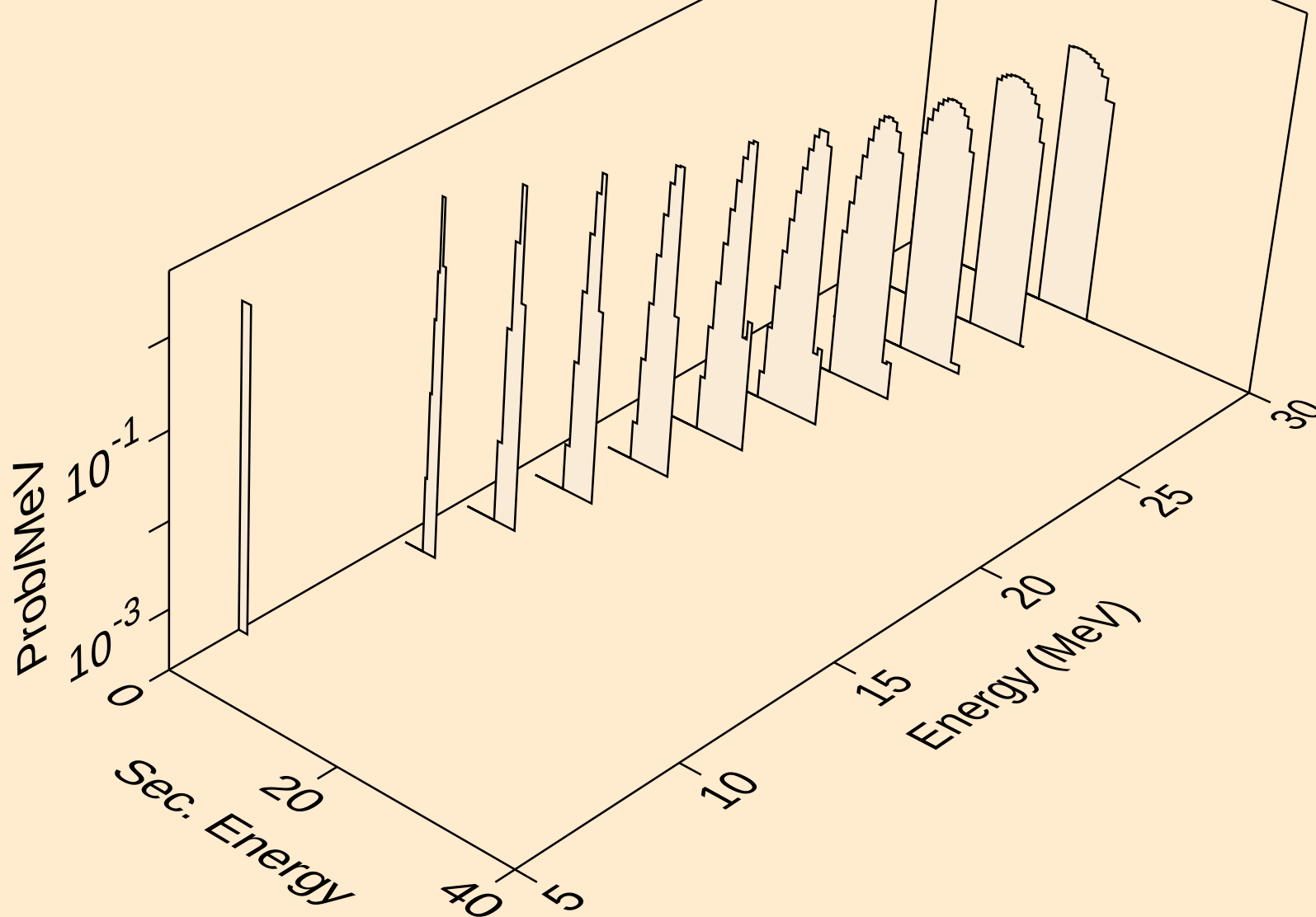
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tritons from (p,x)



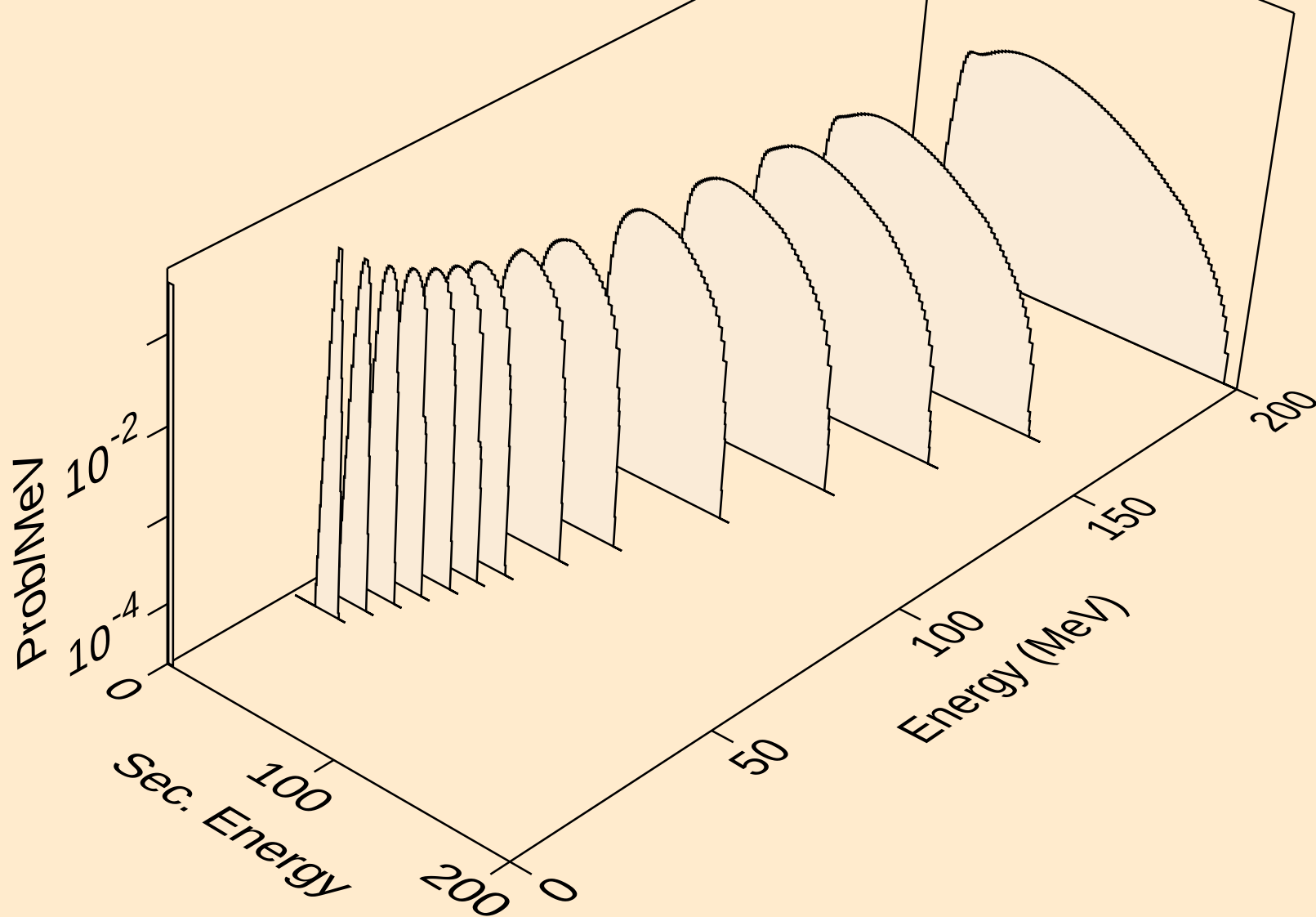
MD247 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
tritons from (p,n\*)t



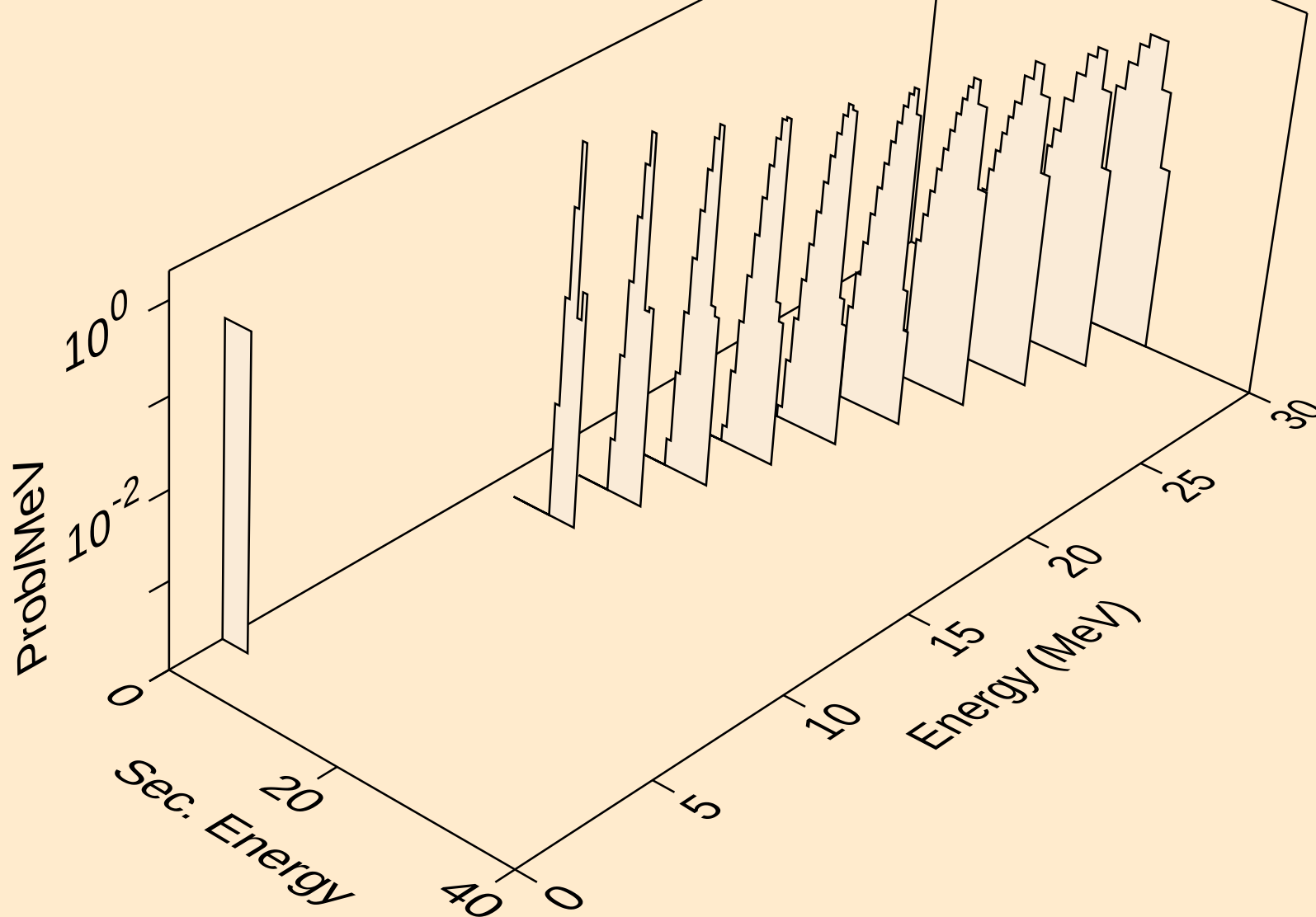
MD247 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
tritons from (p,t)



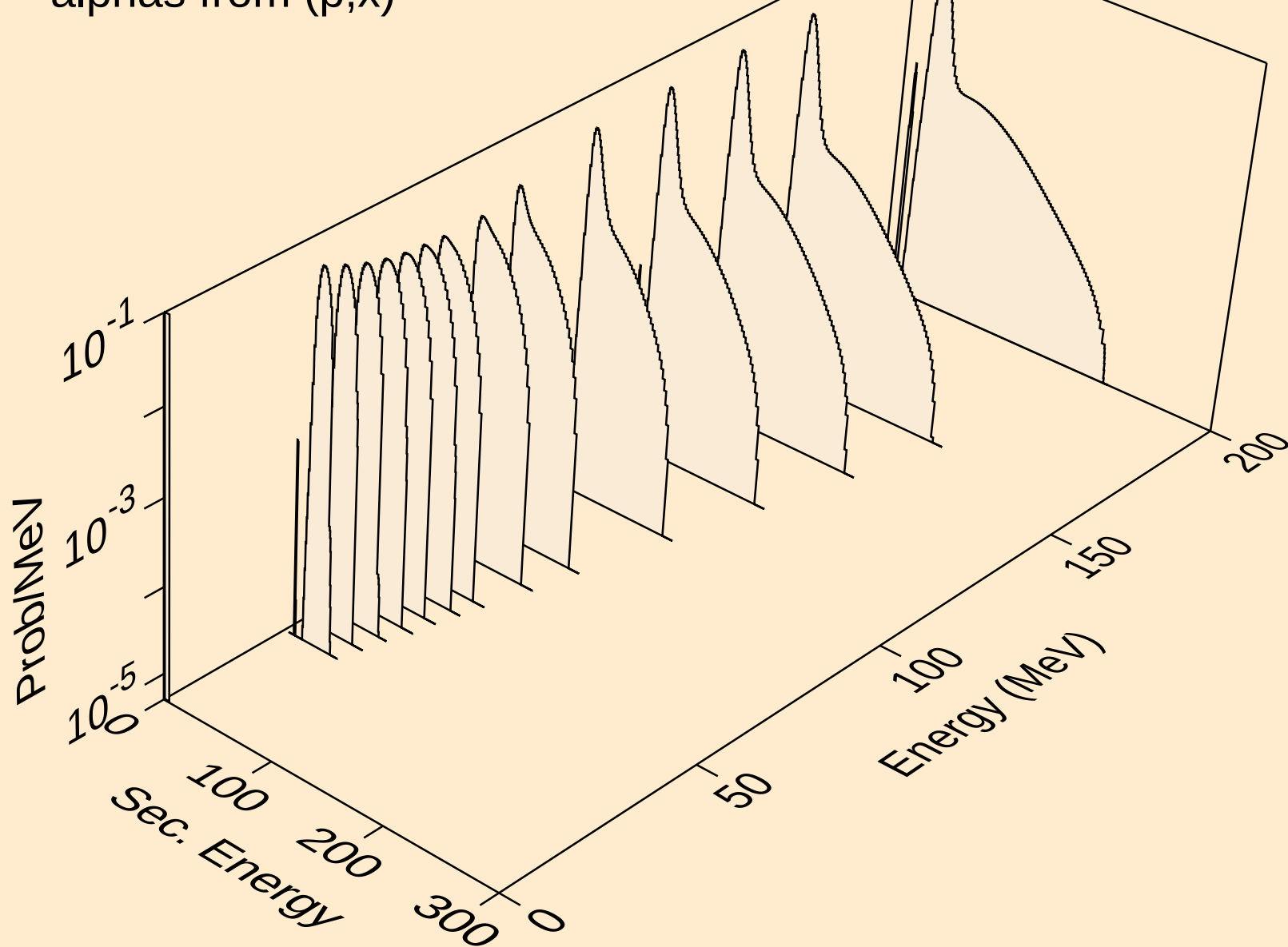
MD247 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
he3s from (p,x)



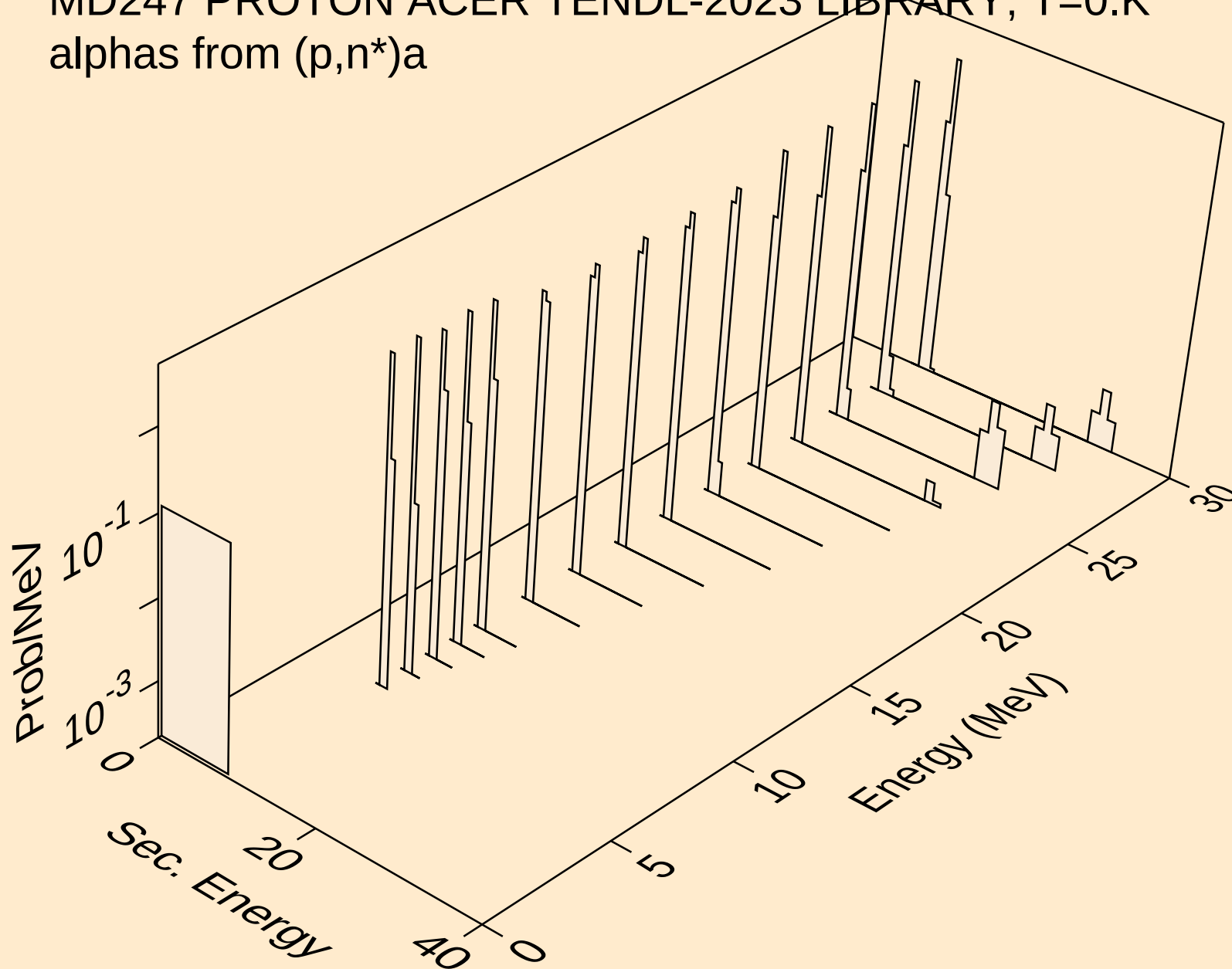
MD247 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
he3s from (p,he3)



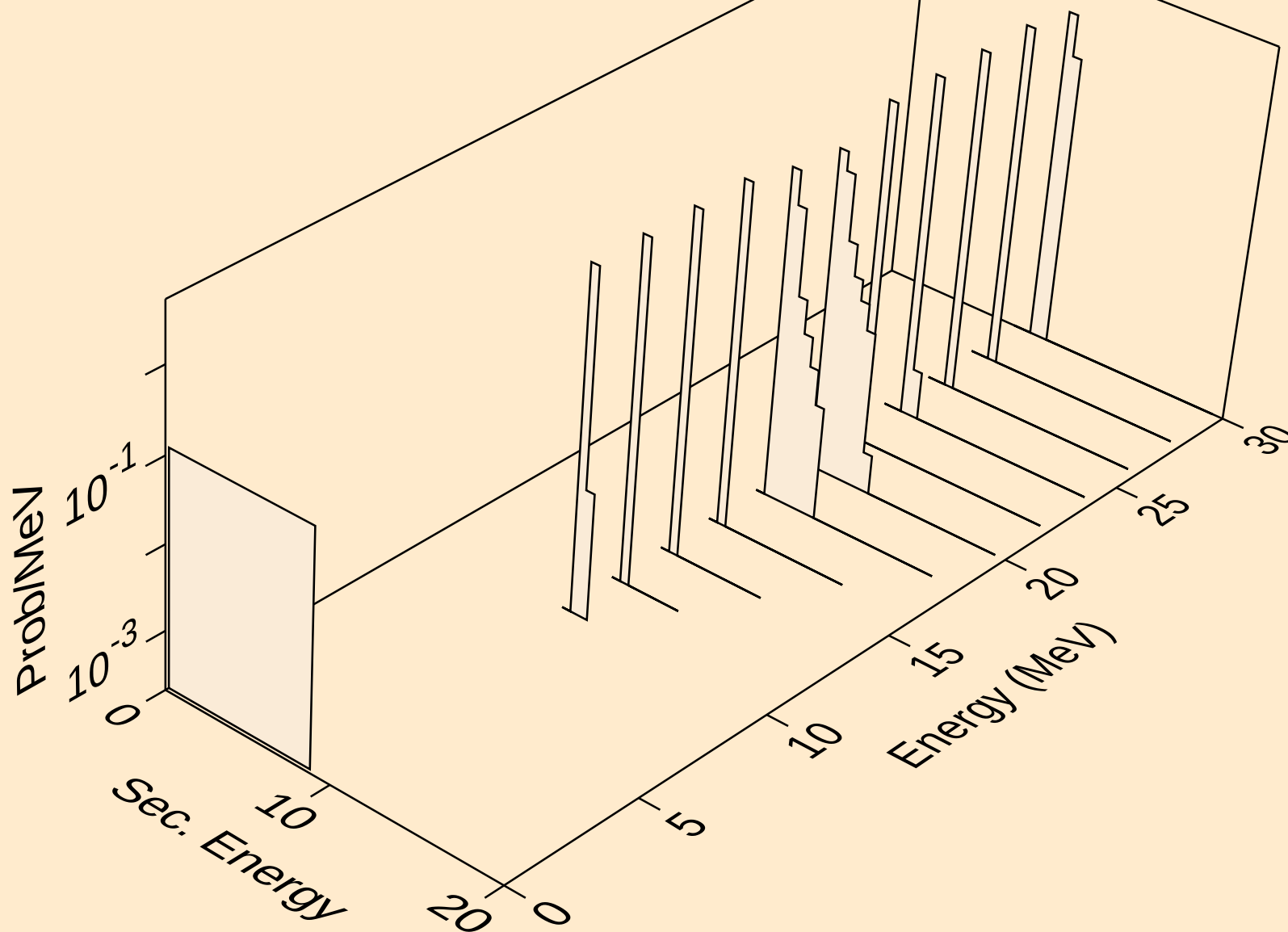
MD247 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (p,x)



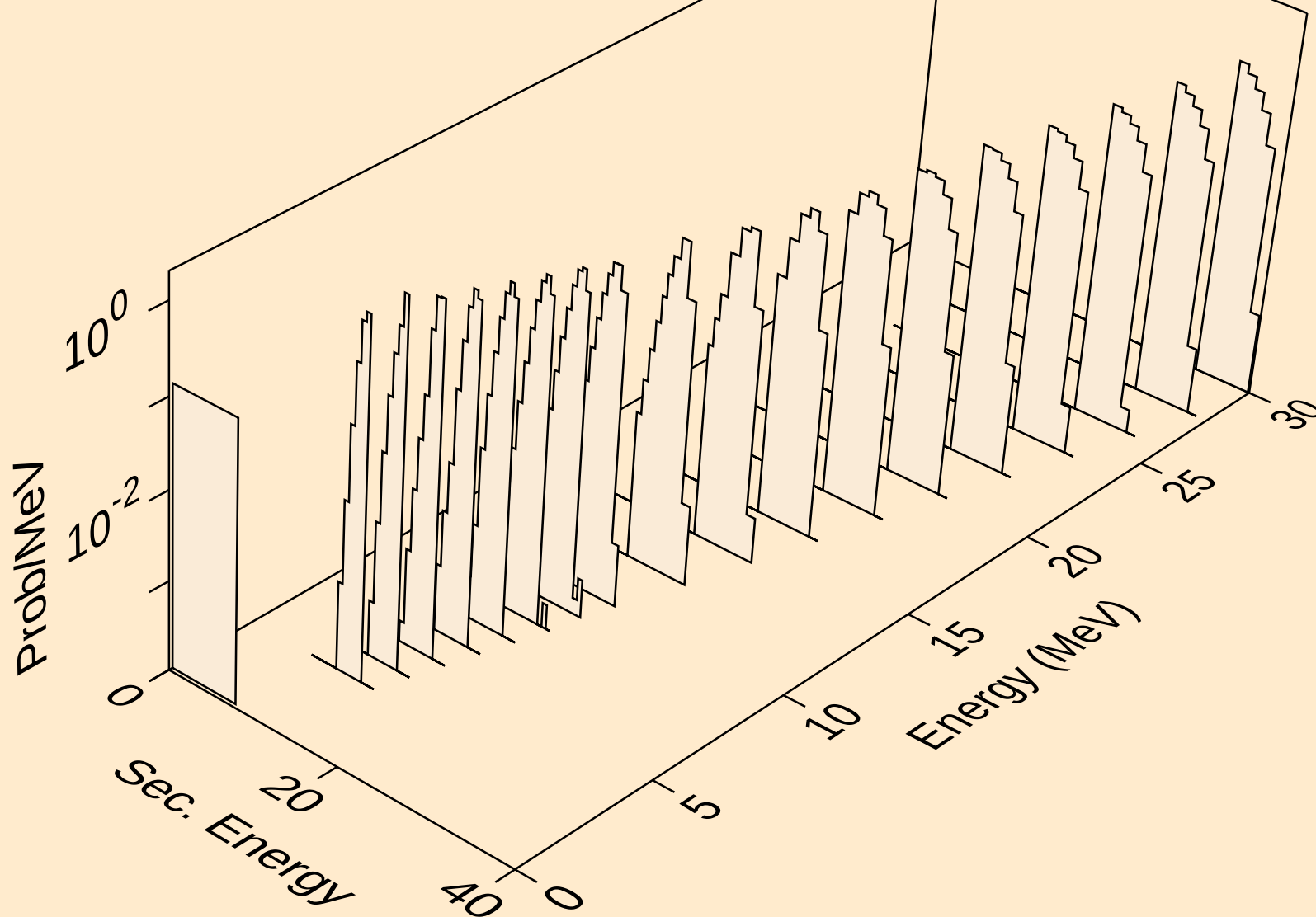
MD247 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (p,n\*)a



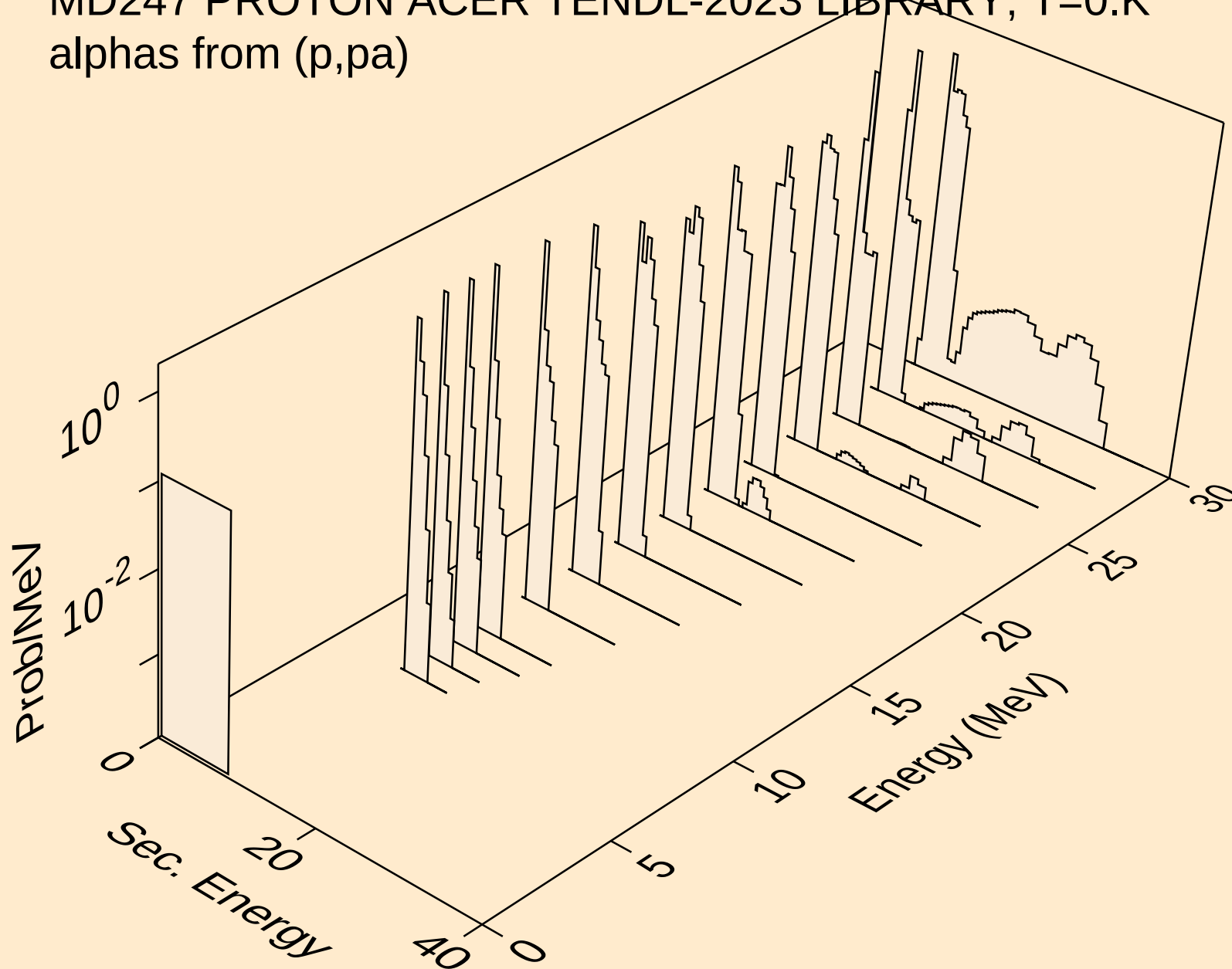
MD247 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (p,npa)



MD247 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (p,a)



MD247 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (p,pa)



MD247 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (p,da)

