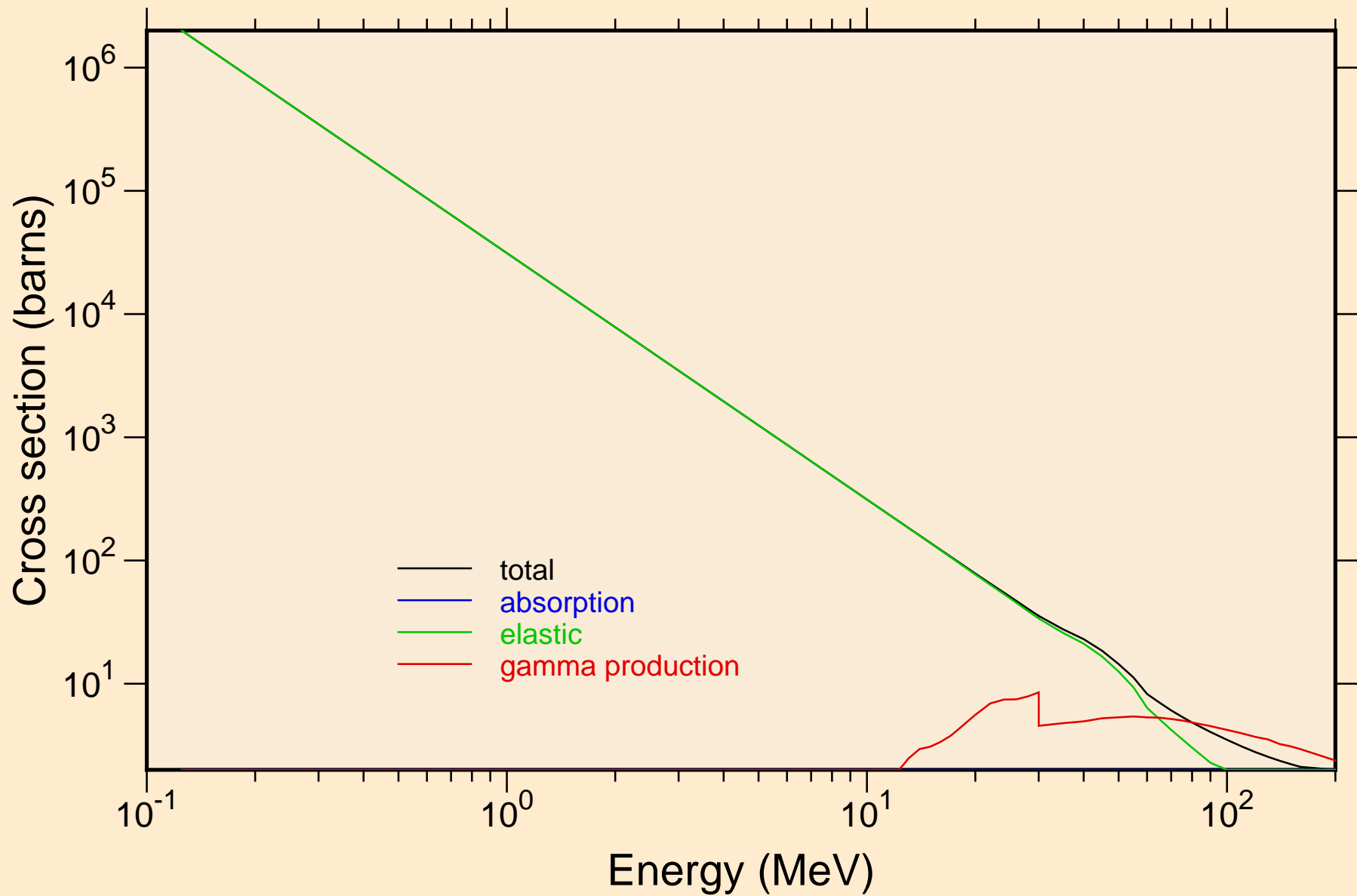
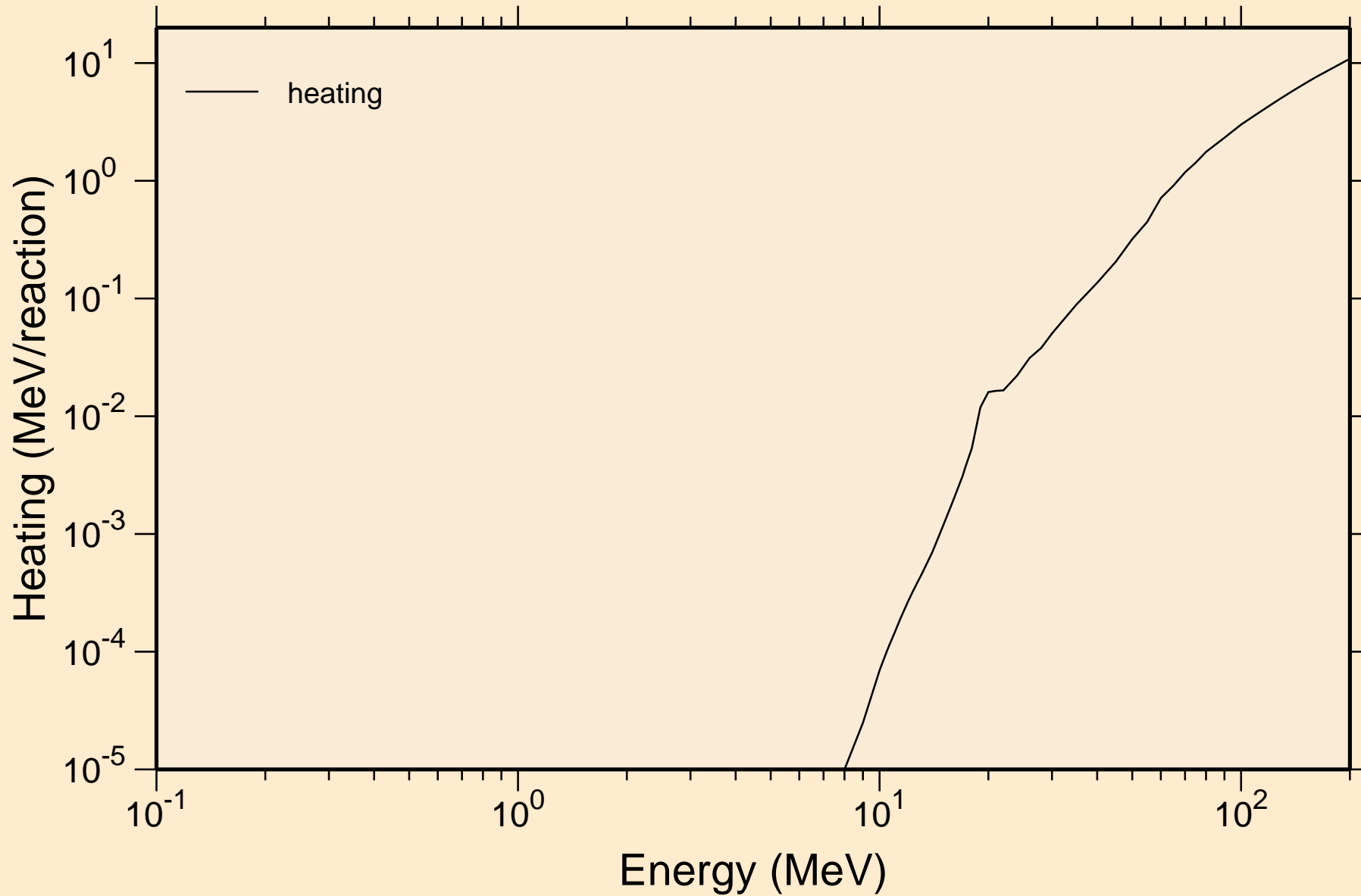


LU178 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Principal cross sections



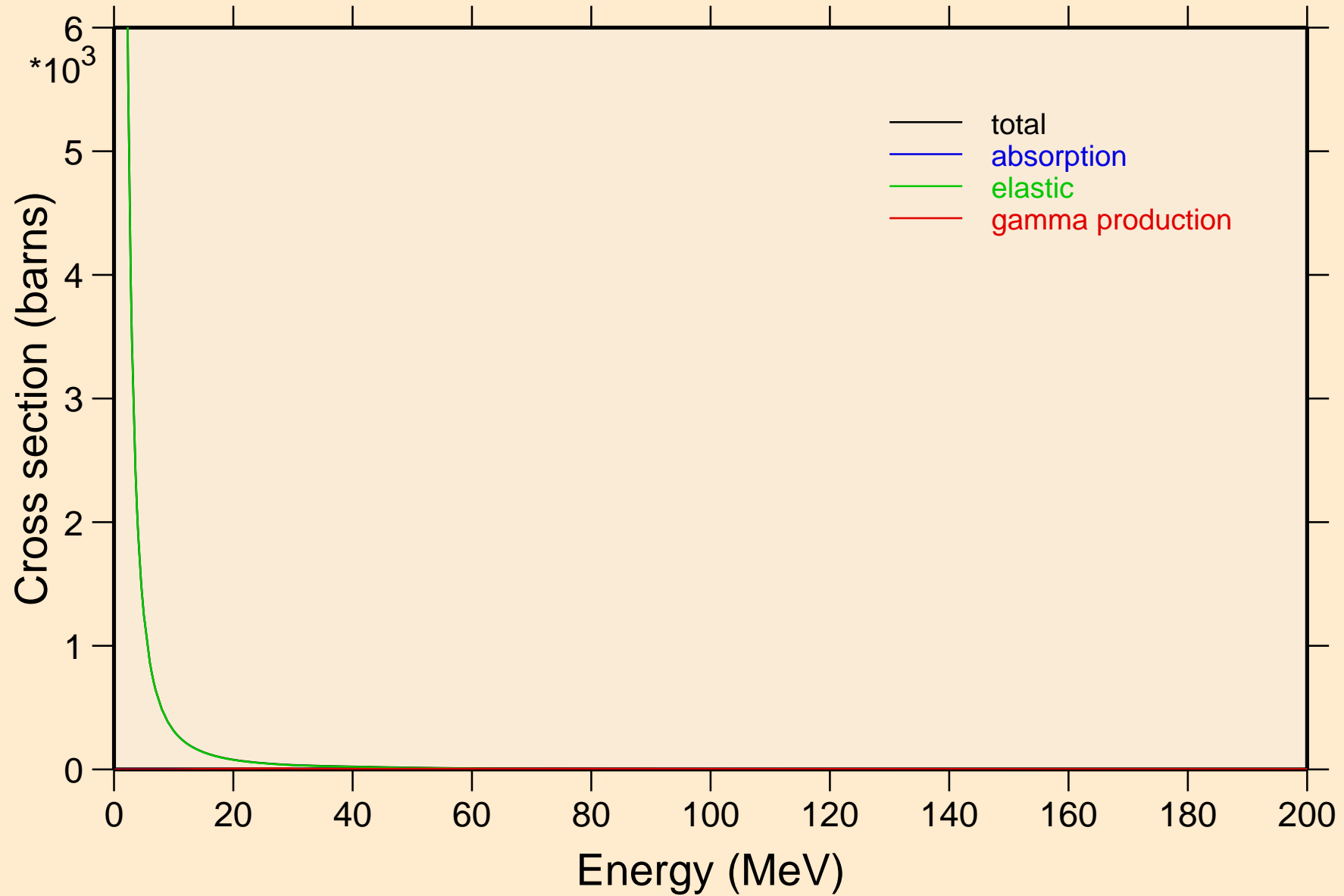
# LU178 PROTON ACER TENDL-2023 LIBRARY; T=0.K

## Heating



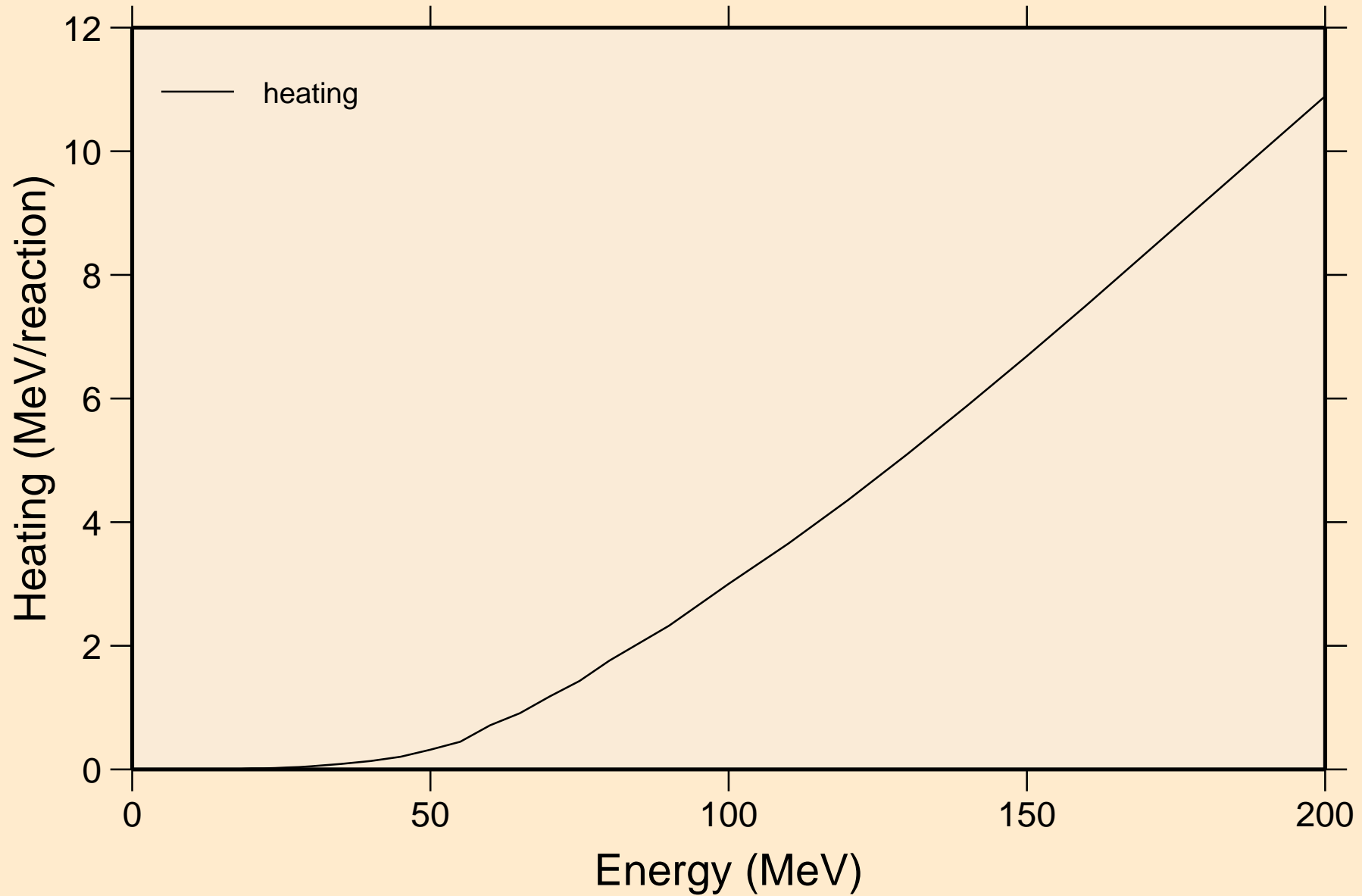
# LU178 PROTON ACER TENDL-2023 LIBRARY; T=0.K

## Principal cross sections



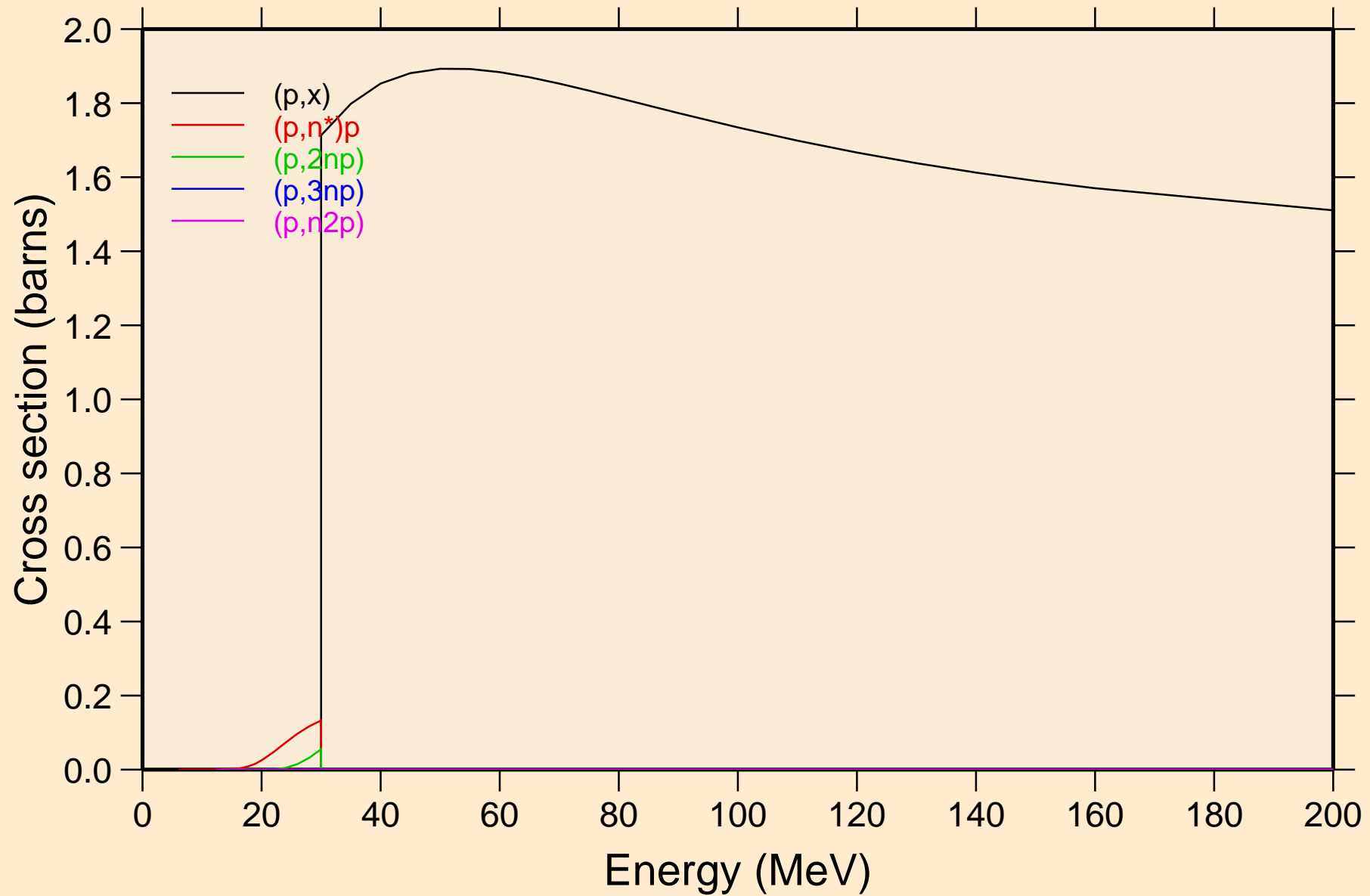
# LU178 PROTON ACER TENDL-2023 LIBRARY; T=0.K

## Heating

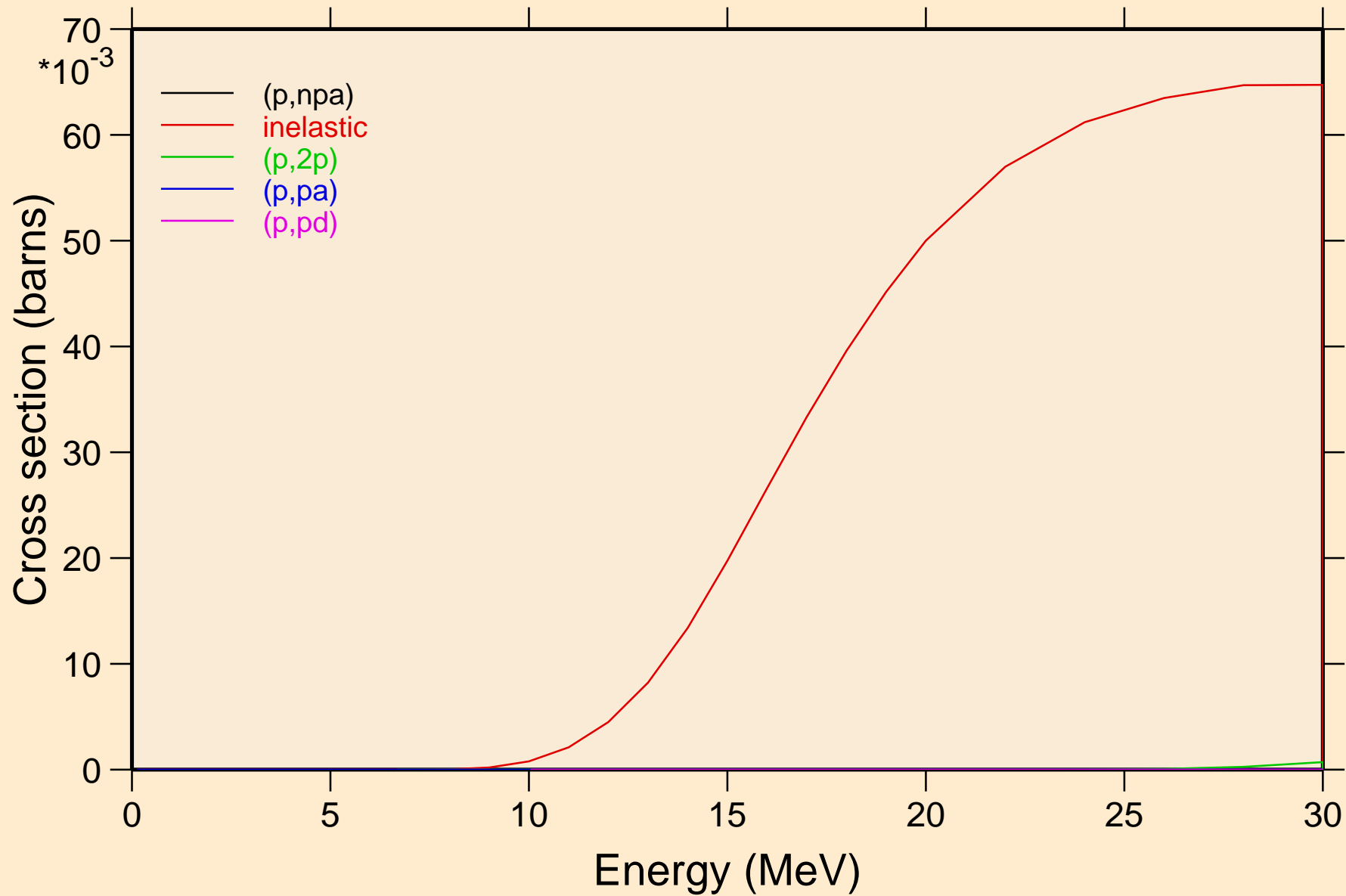


# LU178 PROTON ACER TENDL-2023 LIBRARY; T=0.K

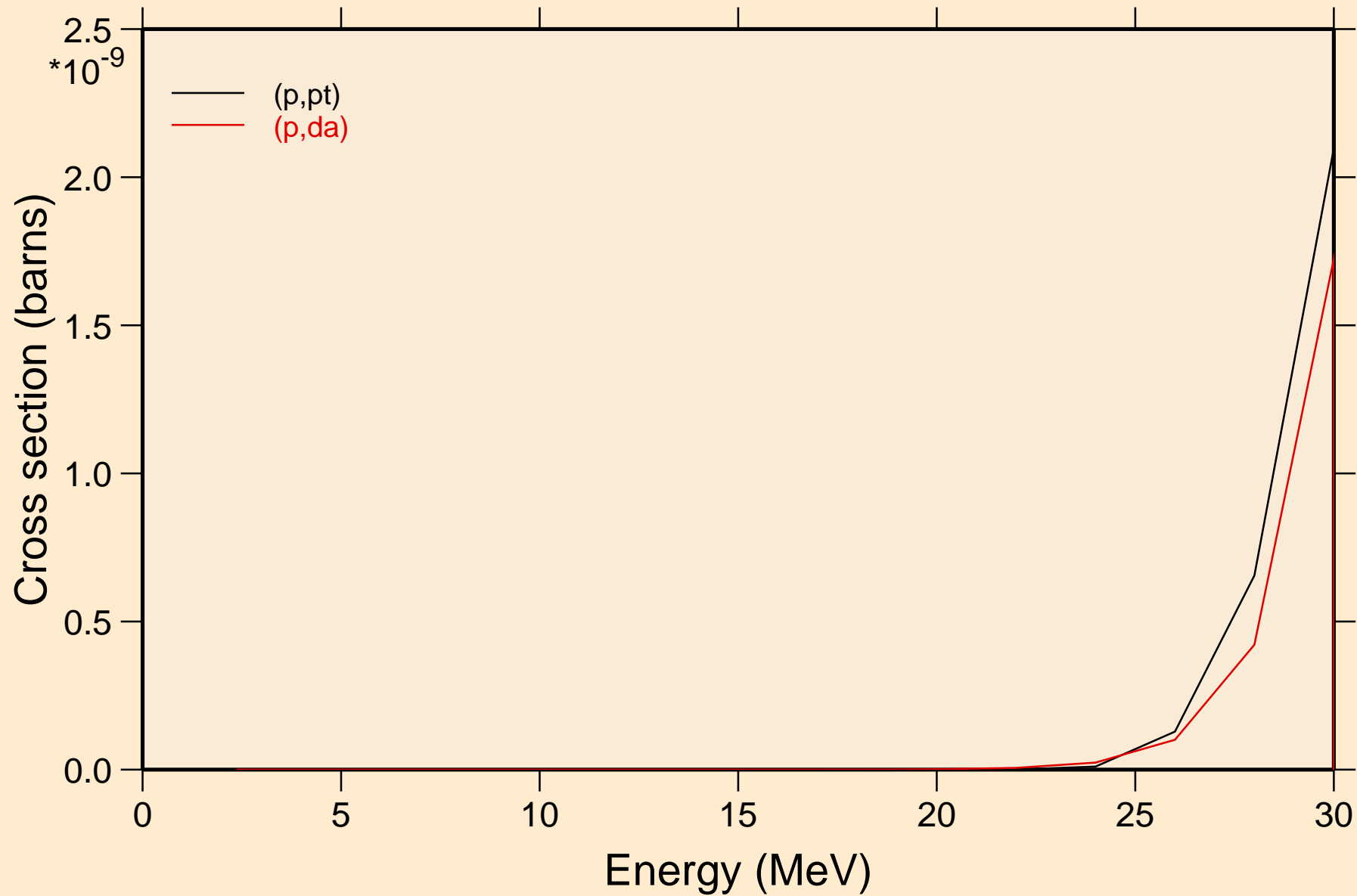
## Threshold reactions



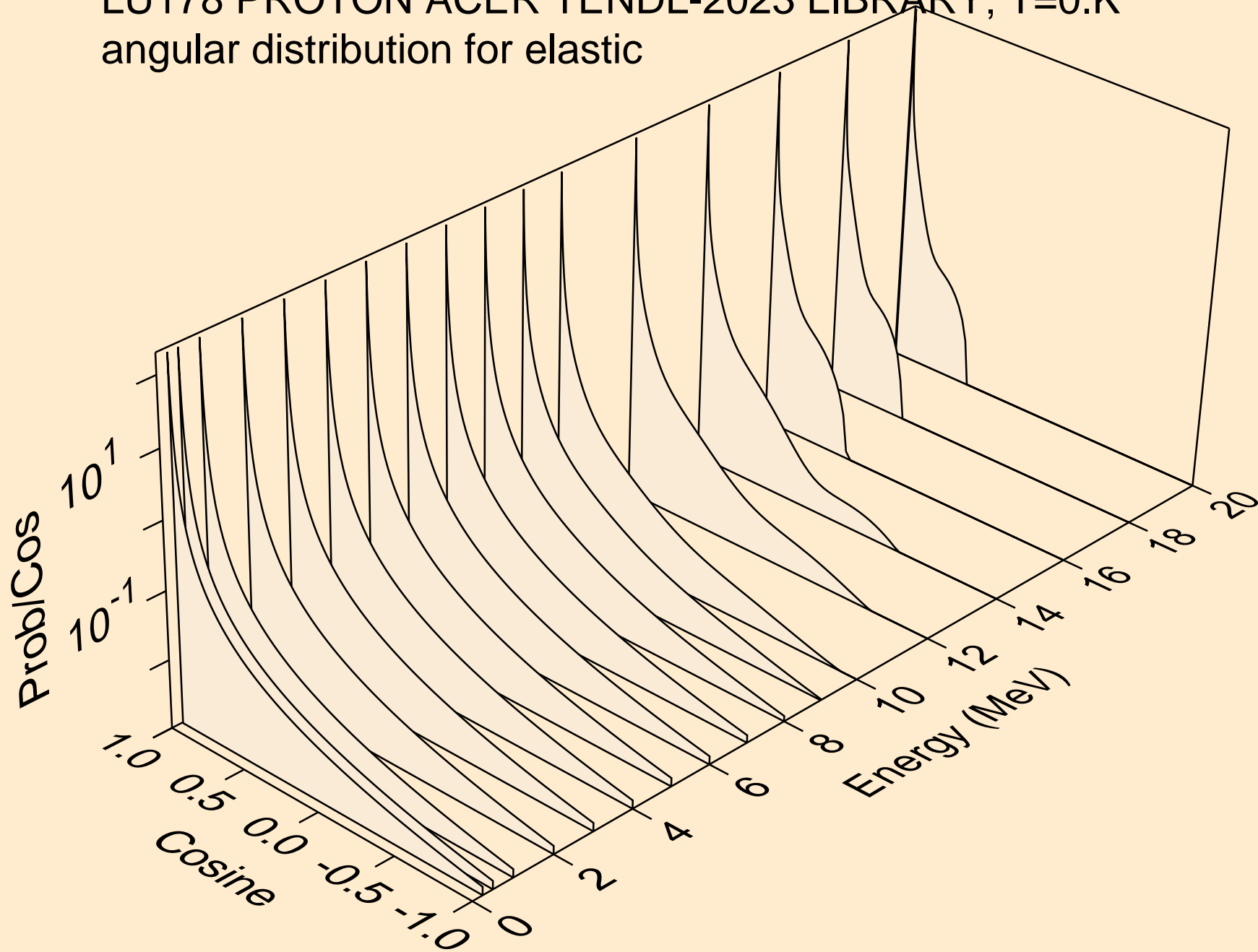
LU178 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Threshold reactions



LU178 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Threshold reactions

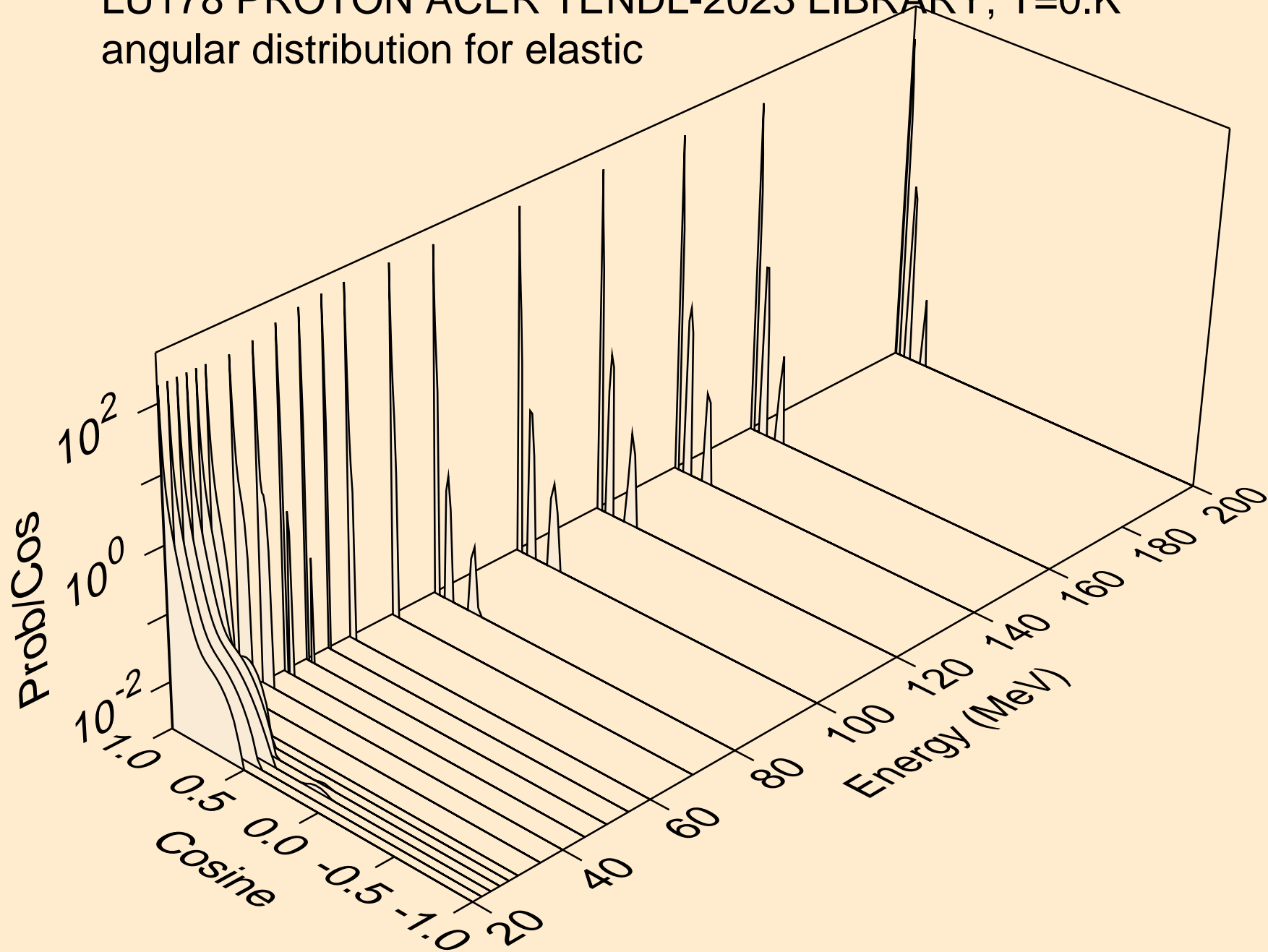


LU178 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for elastic

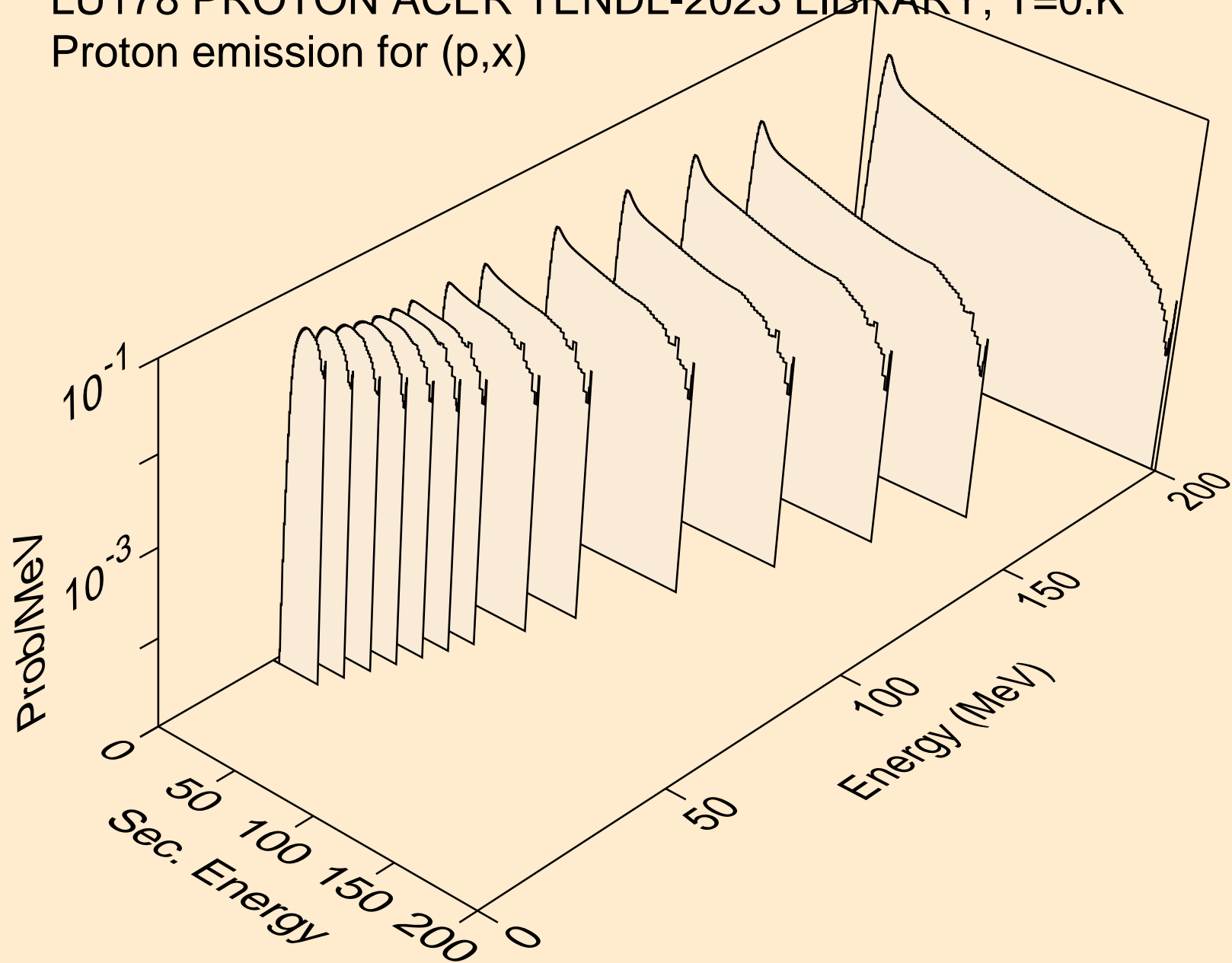




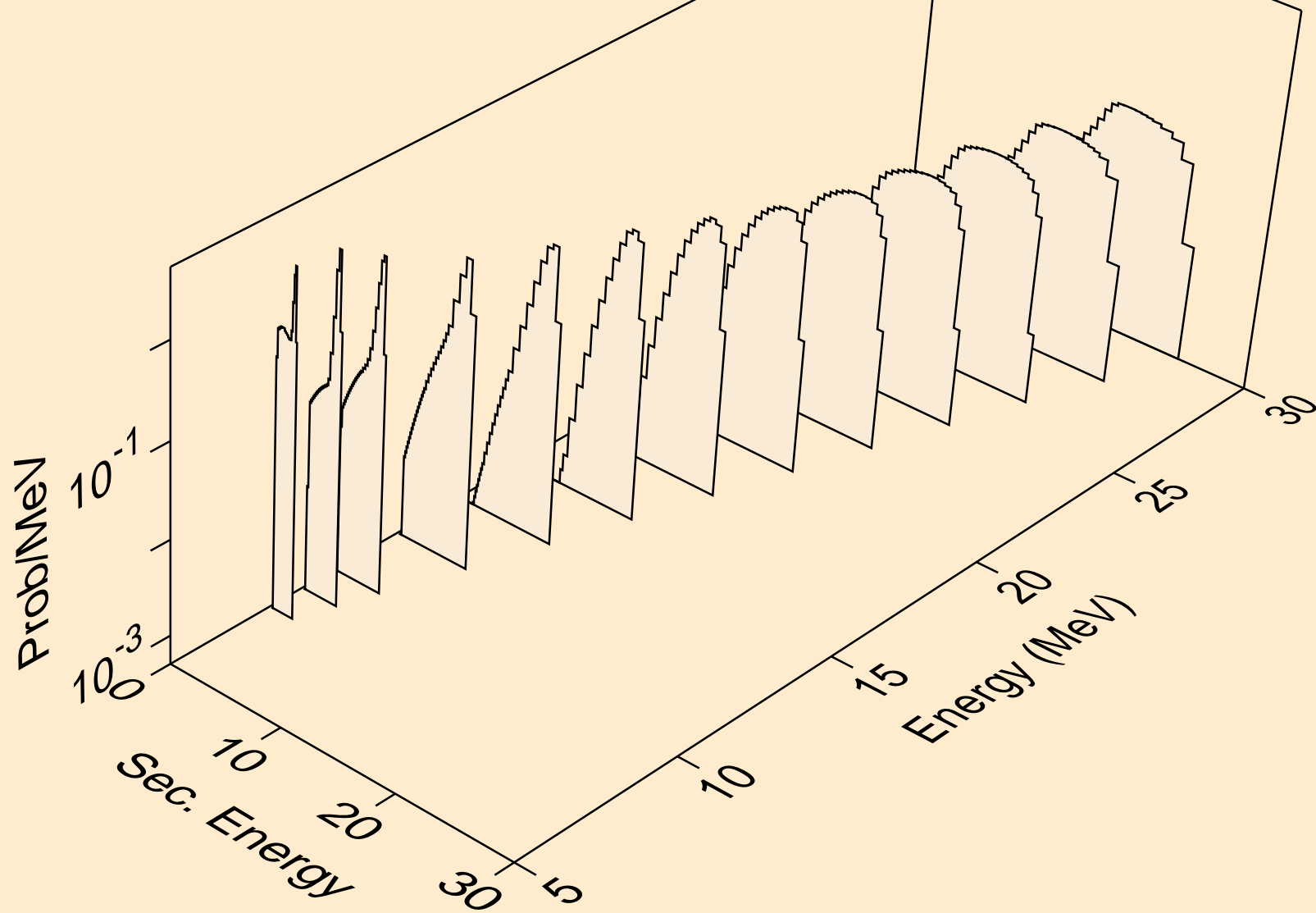
LU178 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for elastic



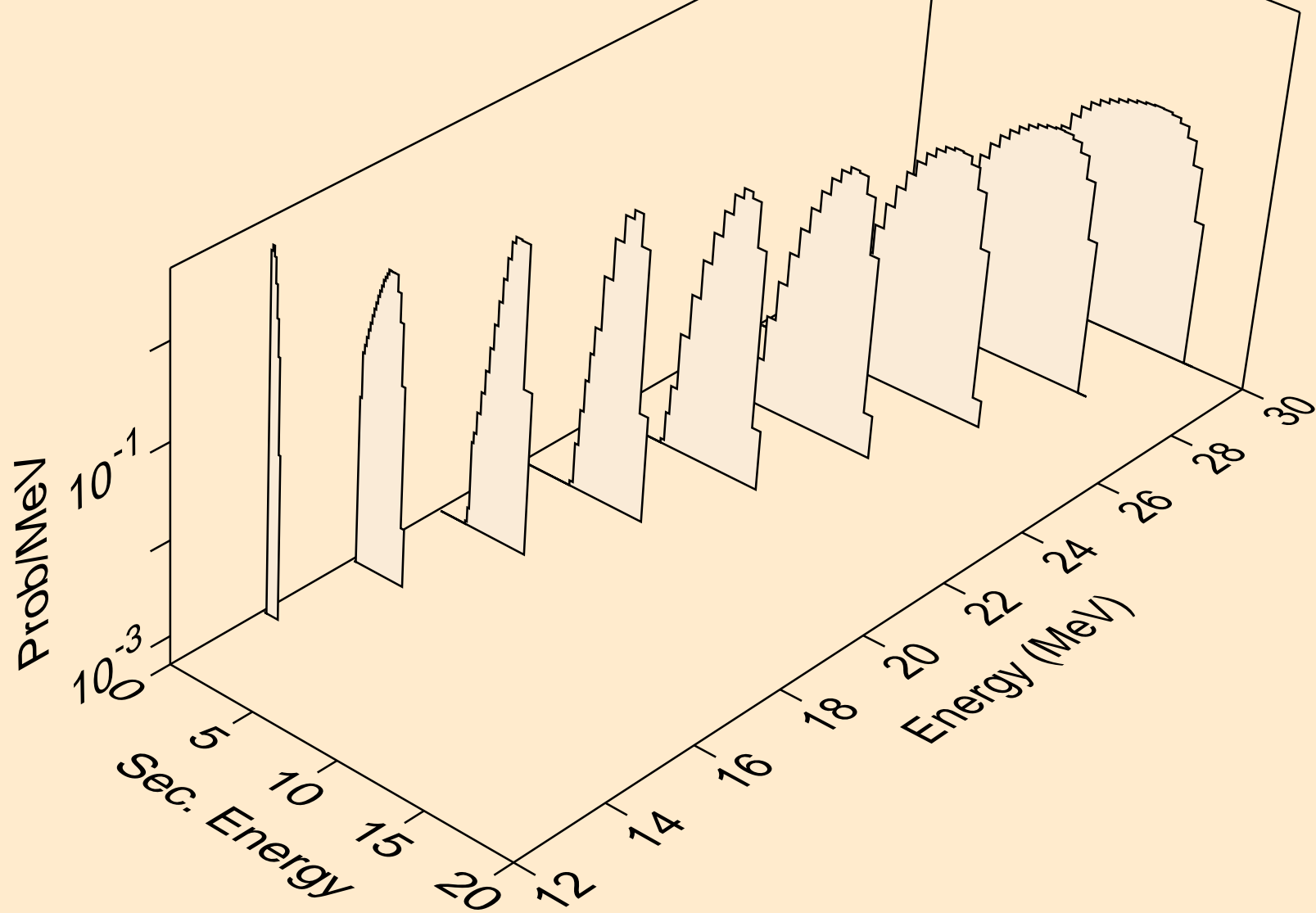
LU178 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Proton emission for (p,x)



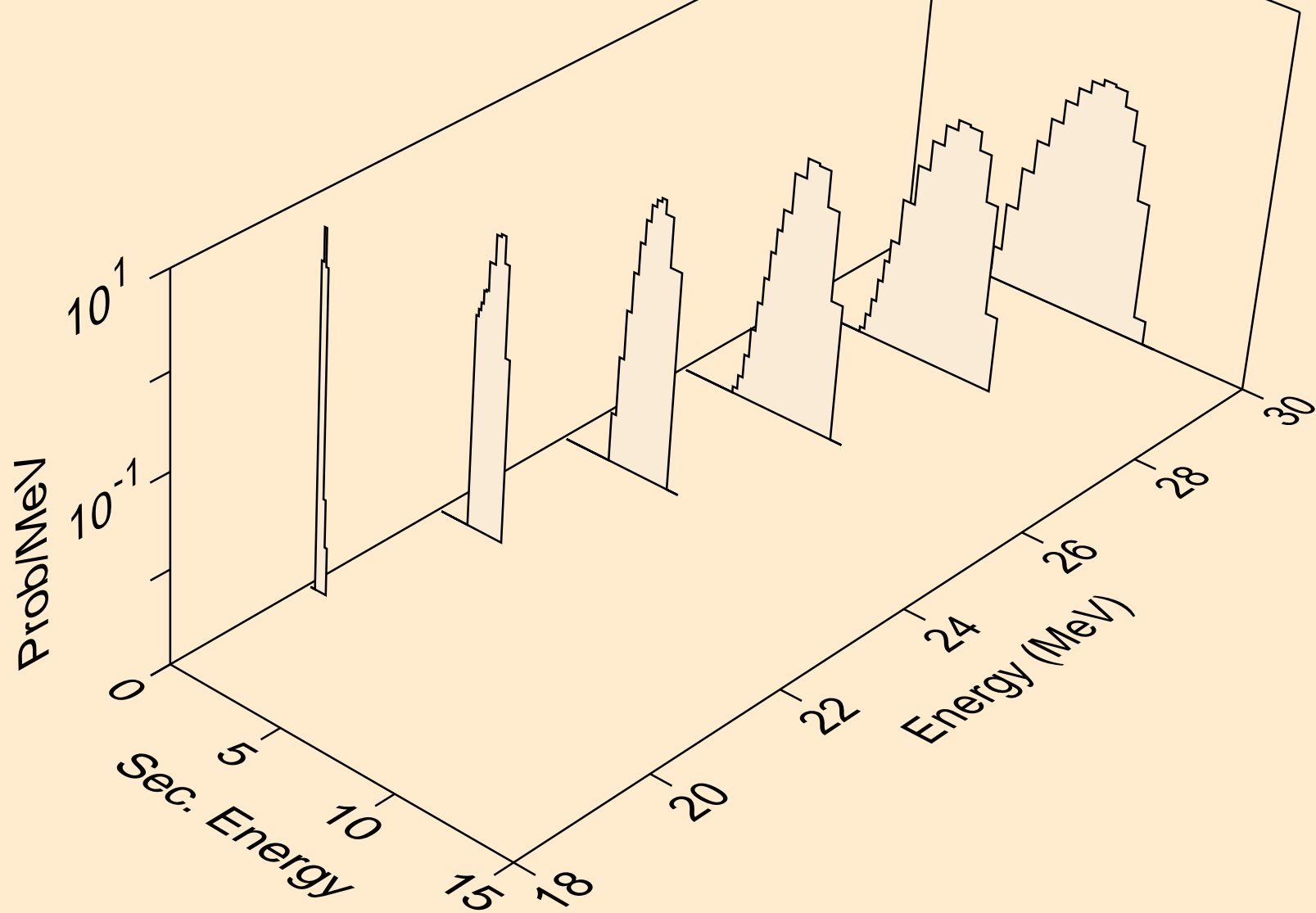
LU178 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Proton emission for (p,n\*)p



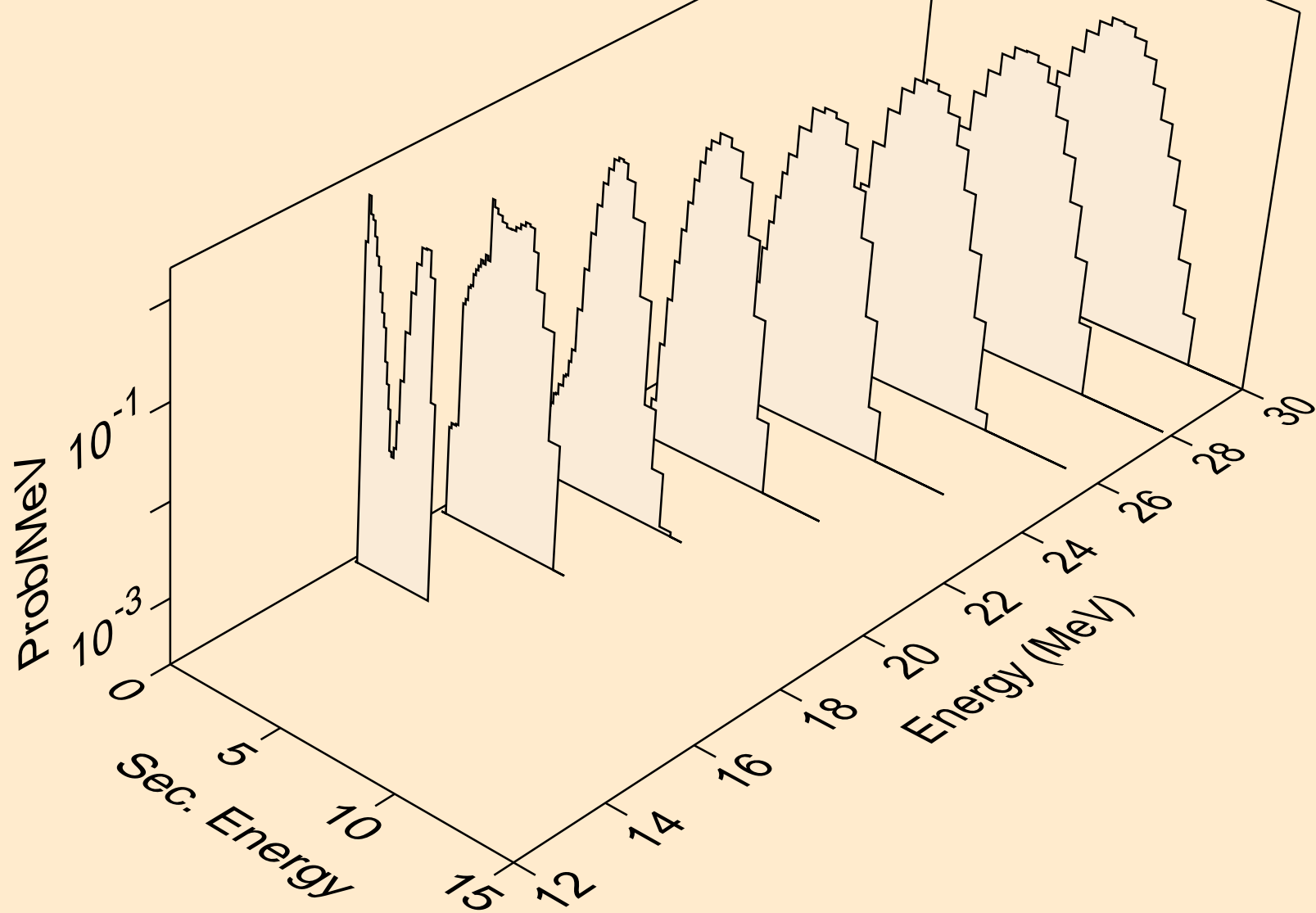
LU178 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Proton emission for (p,2np)



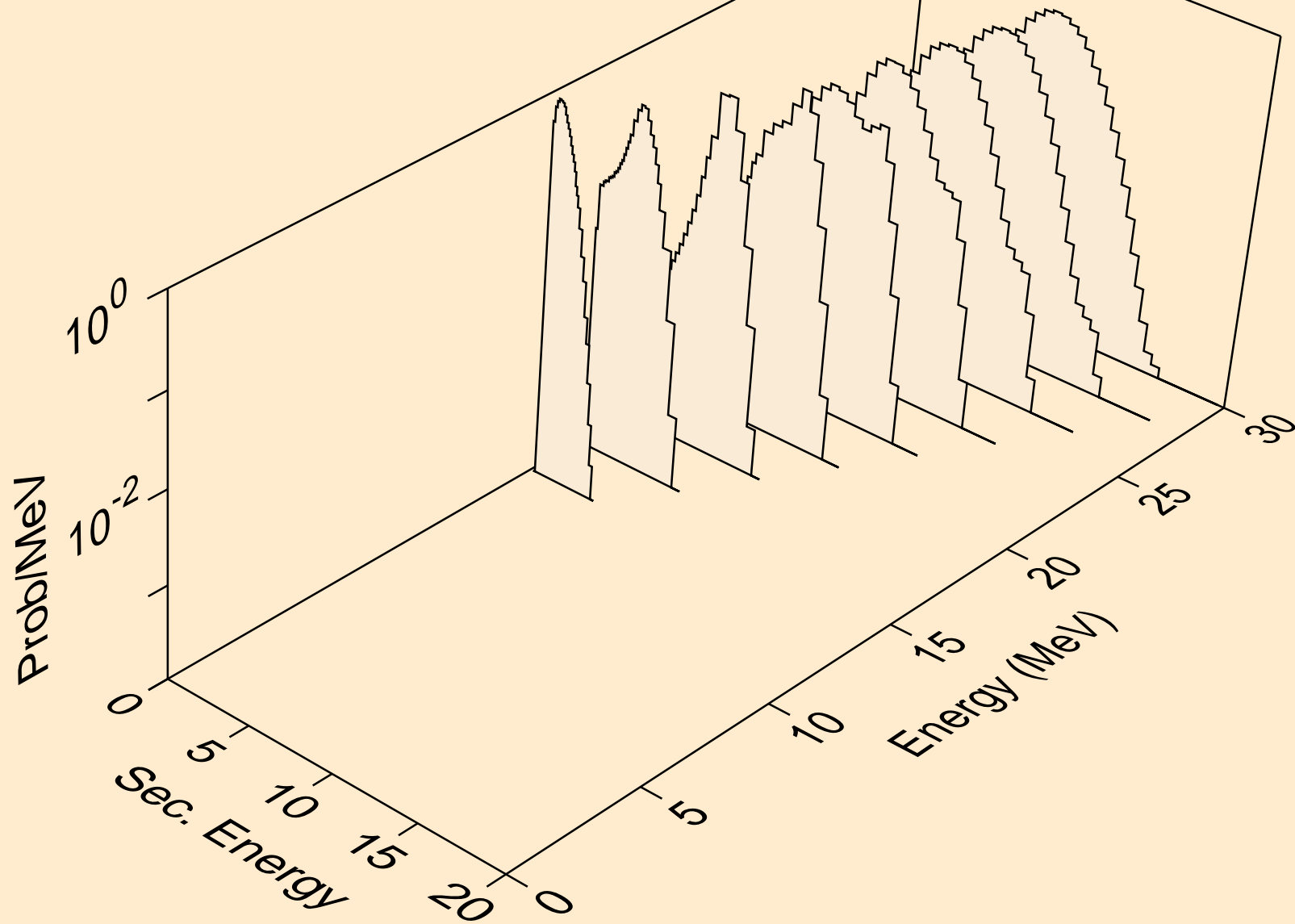
LU178 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Proton emission for (p,3np)



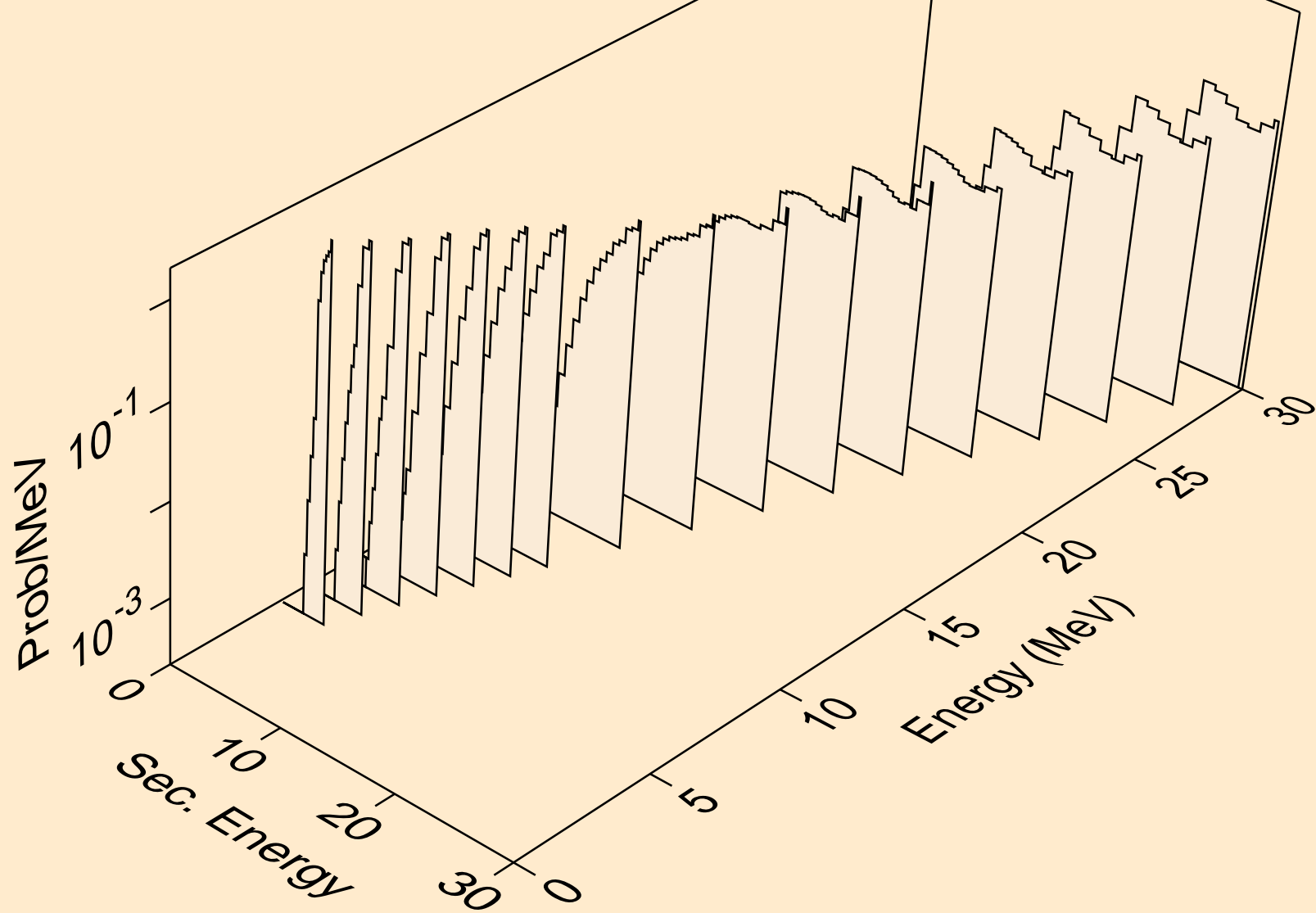
LU178 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Proton emission for (p,n2p)



LU178 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Proton emission for (p,npa)

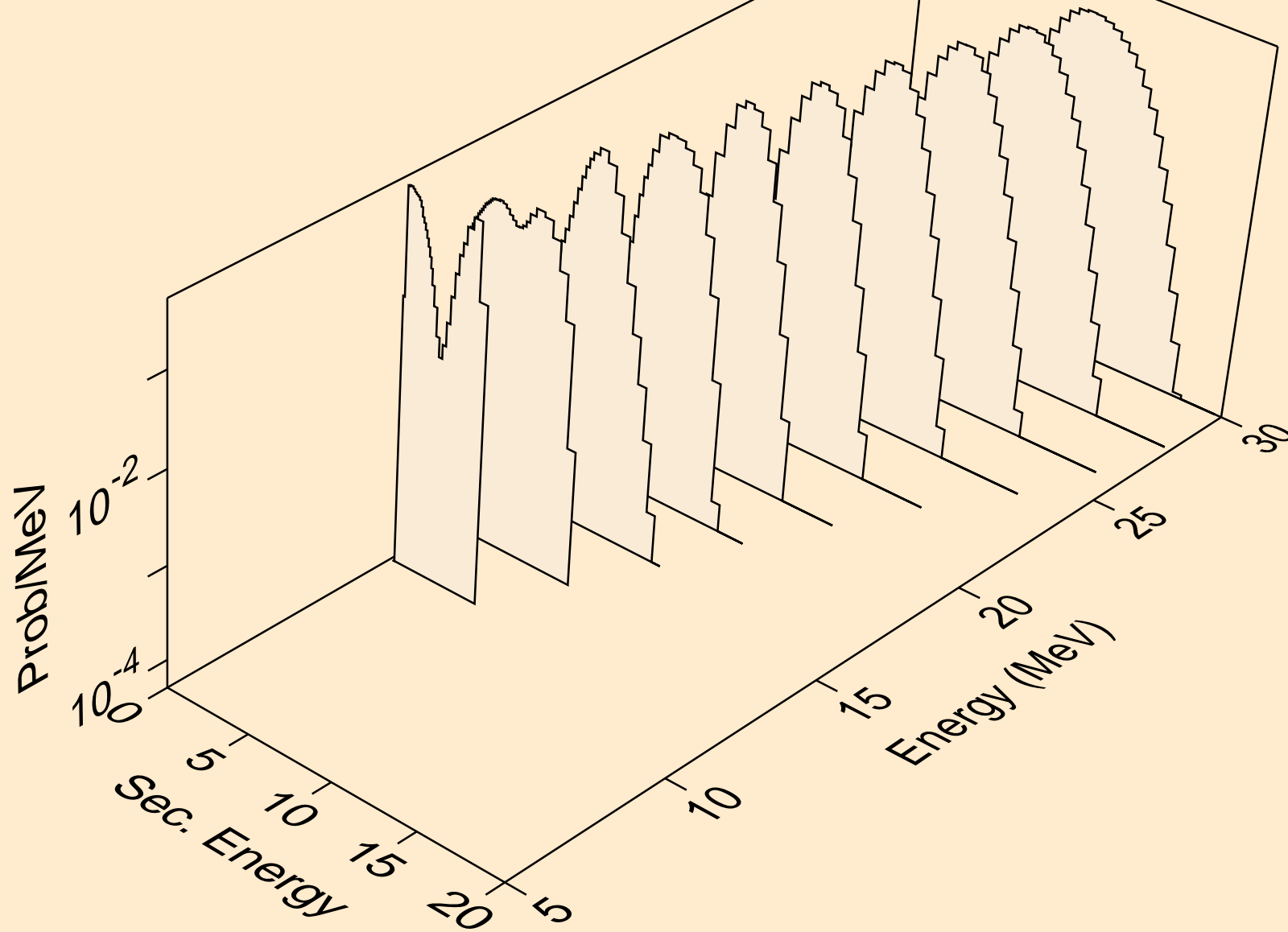


LU178 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Proton emission for inelastic

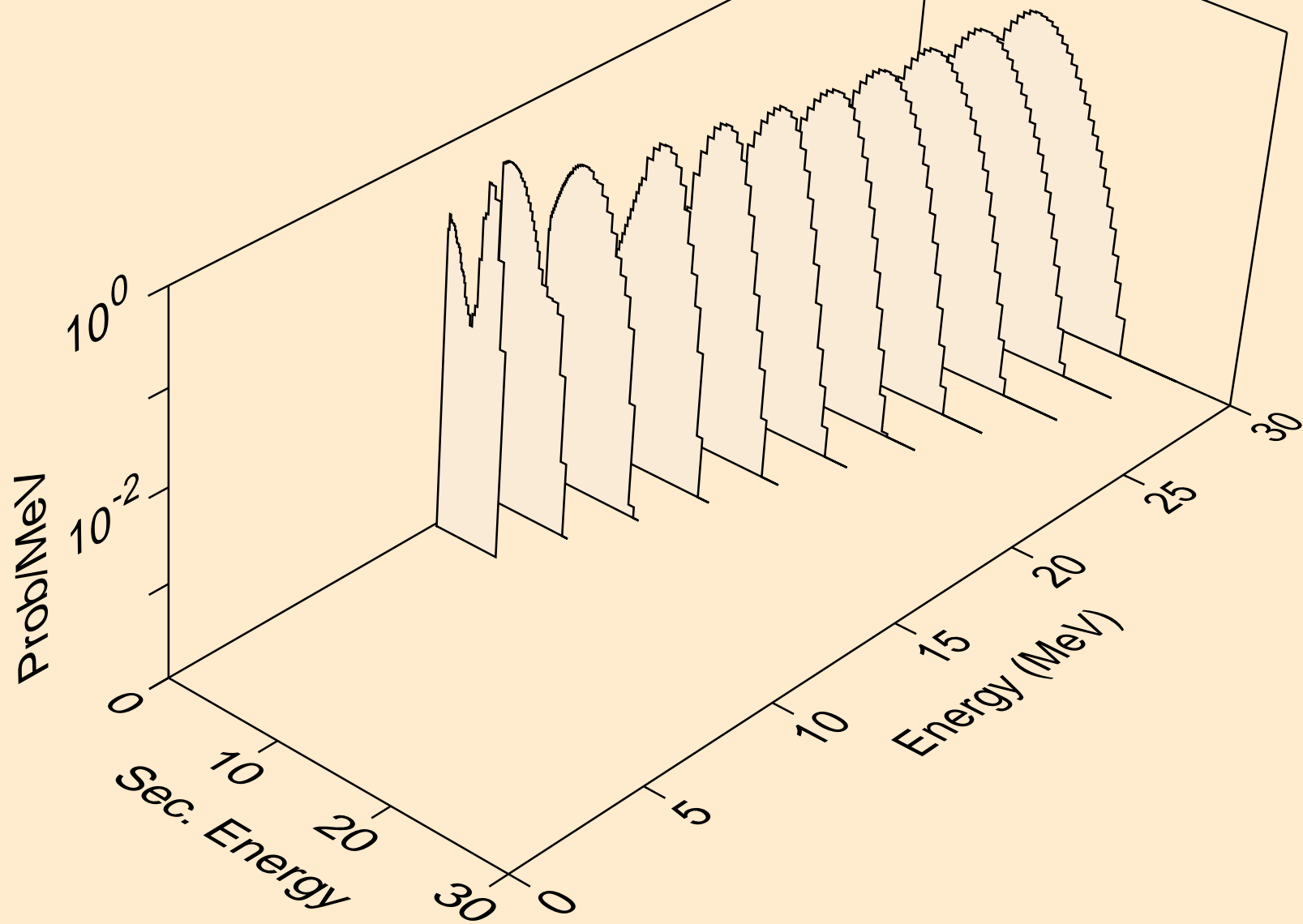




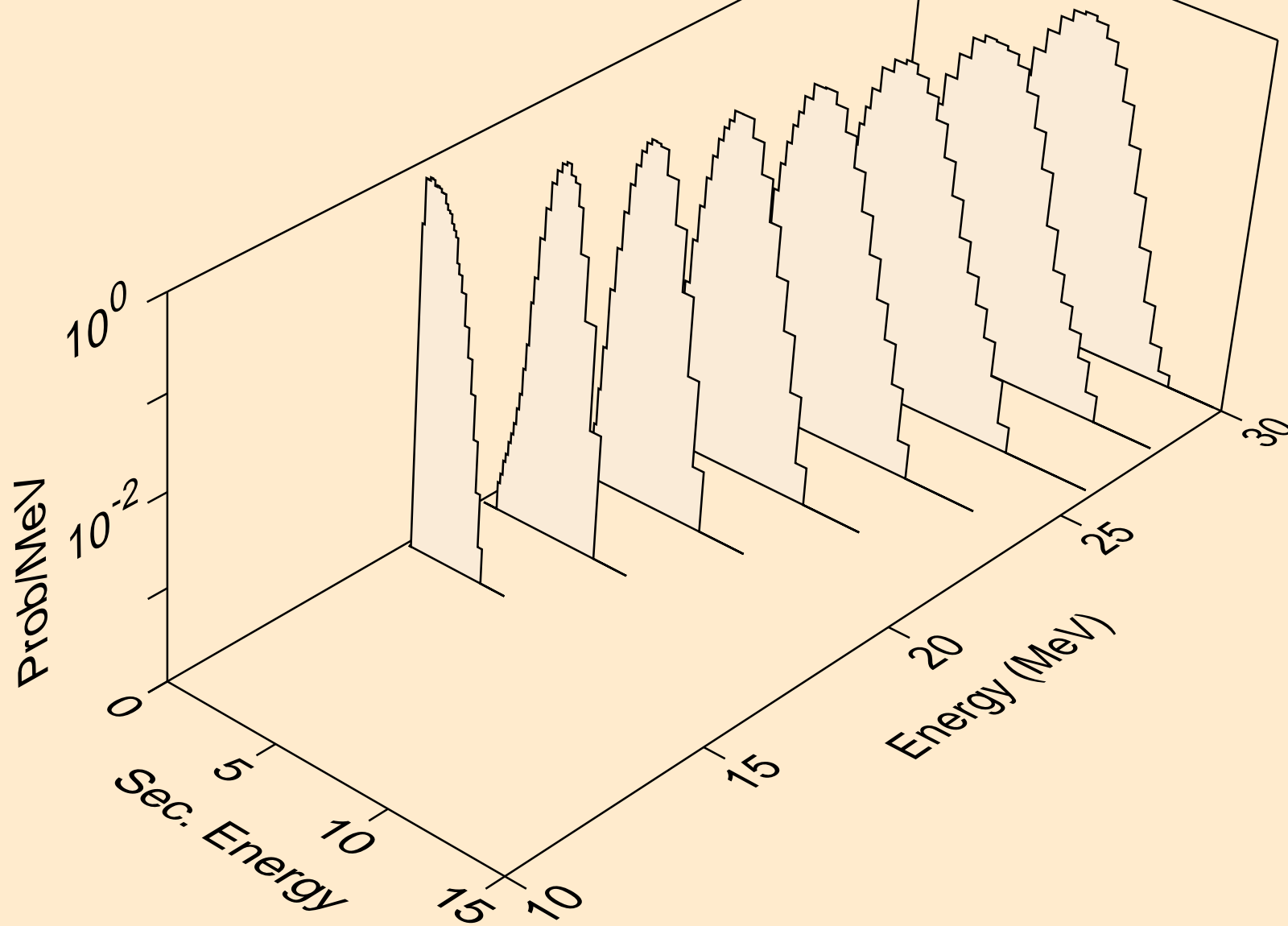
LU178 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Proton emission for (p,2p)



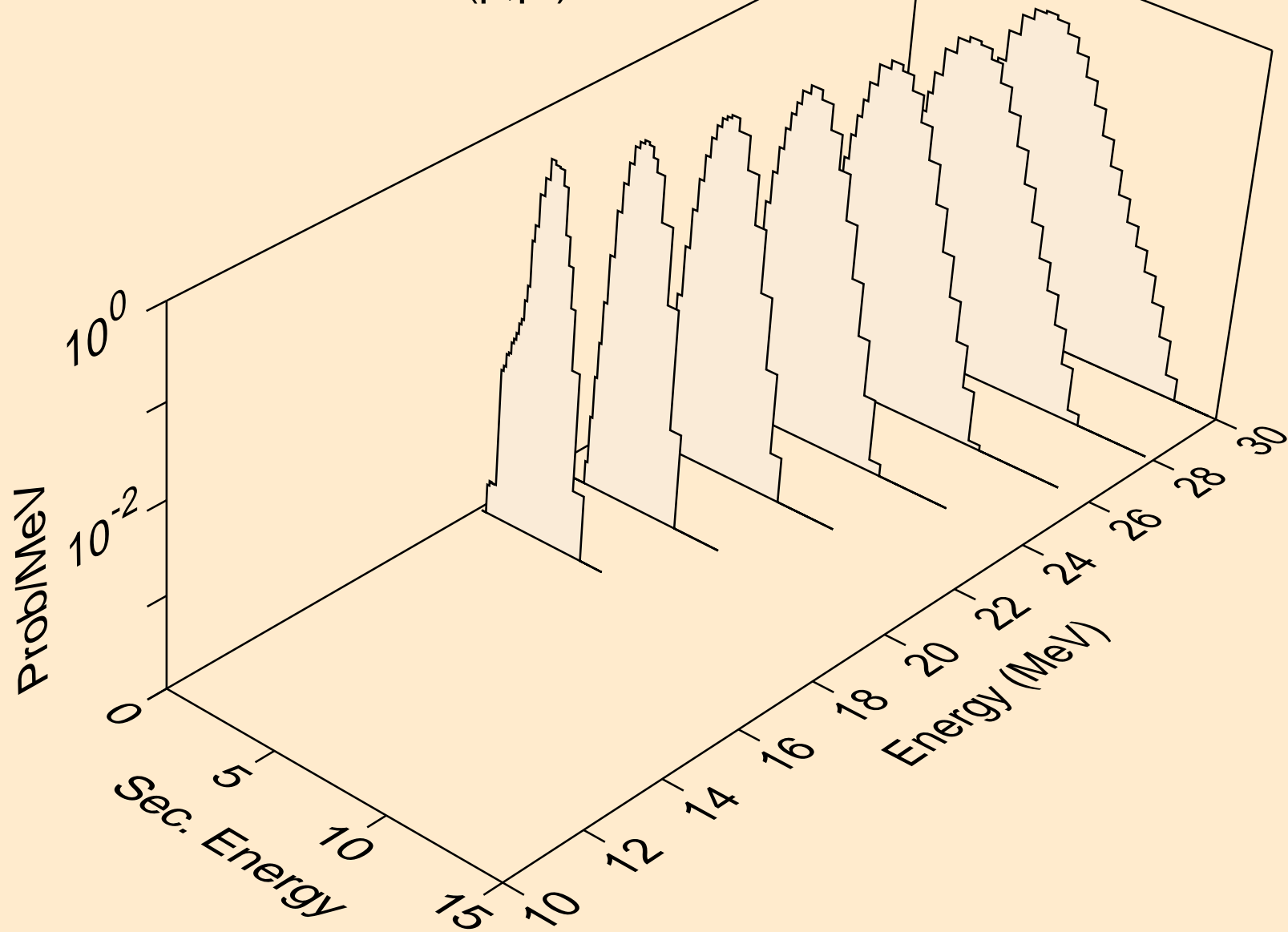
LU178 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Proton emission for (p,pa)



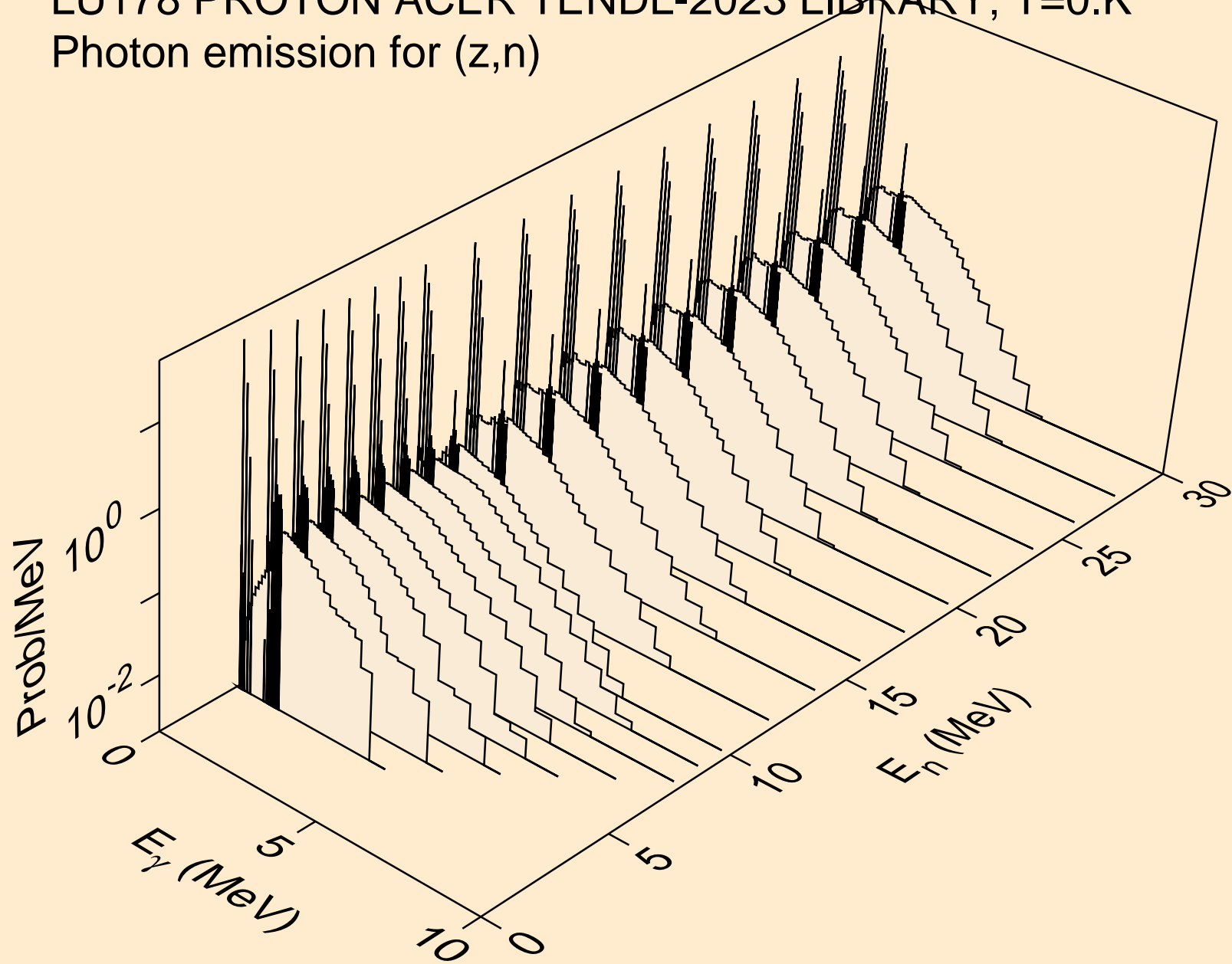
LU178 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Proton emission for (p,pd)



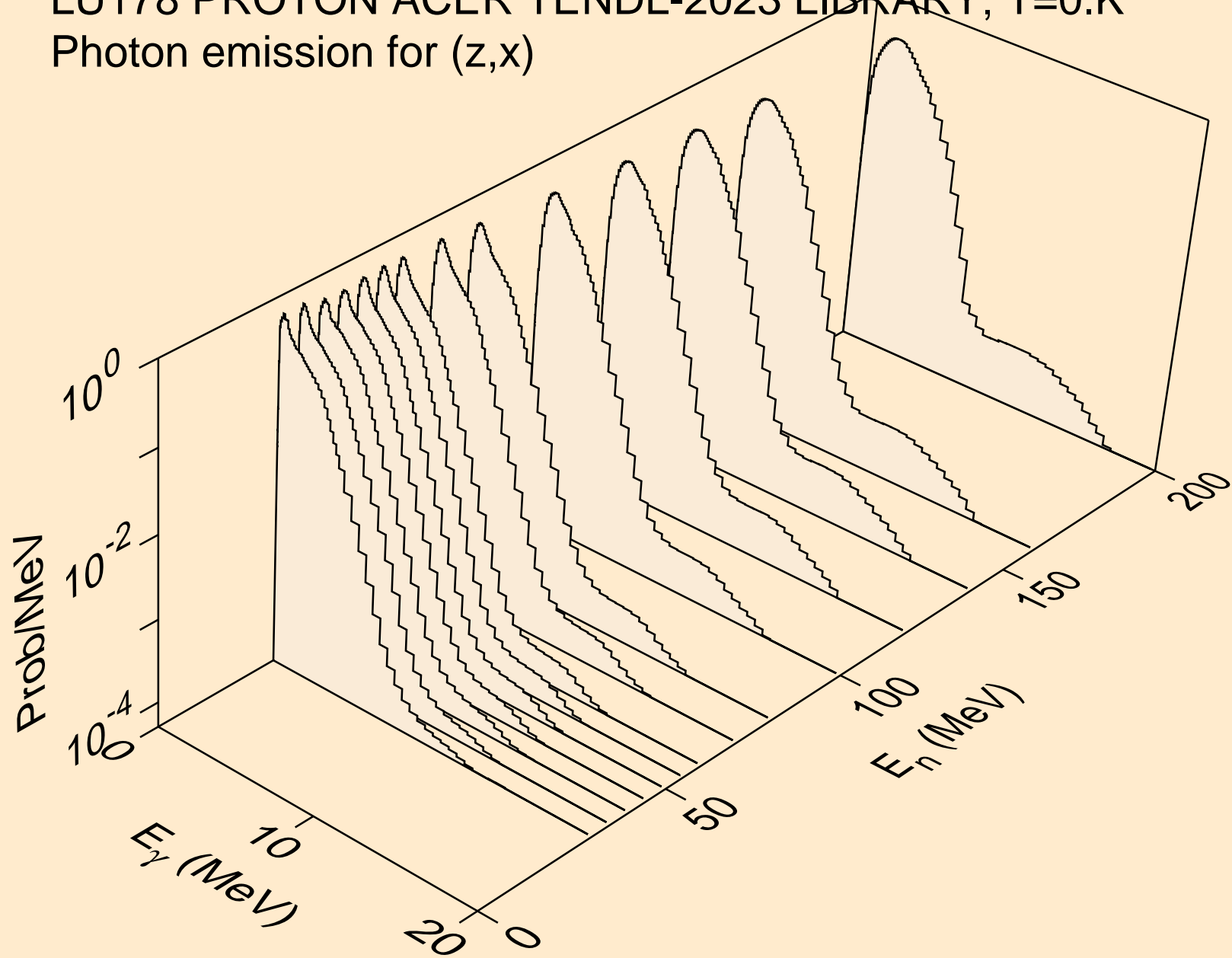
LU178 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Proton emission for (p,pt)



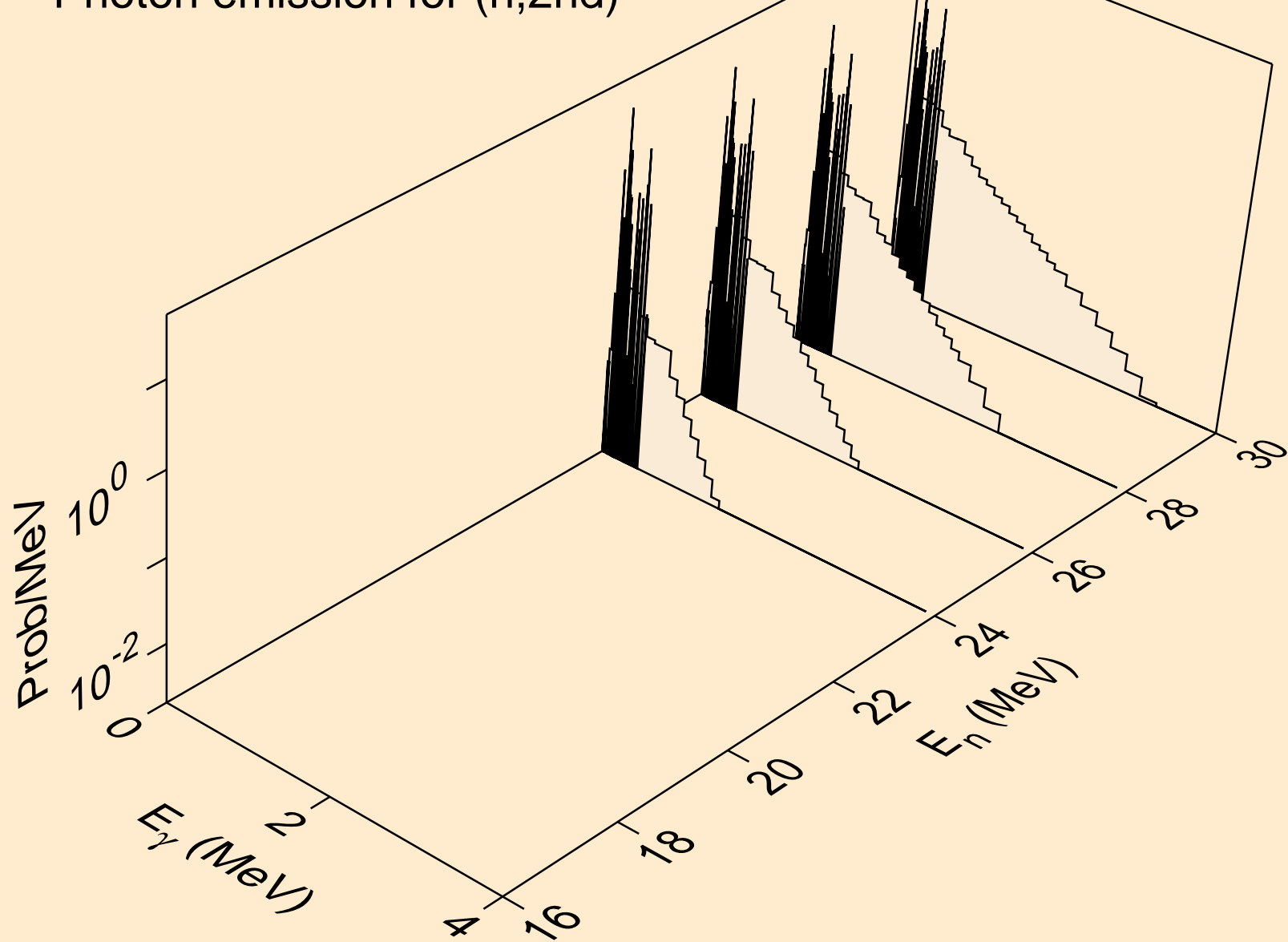
LU178 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (z,n)



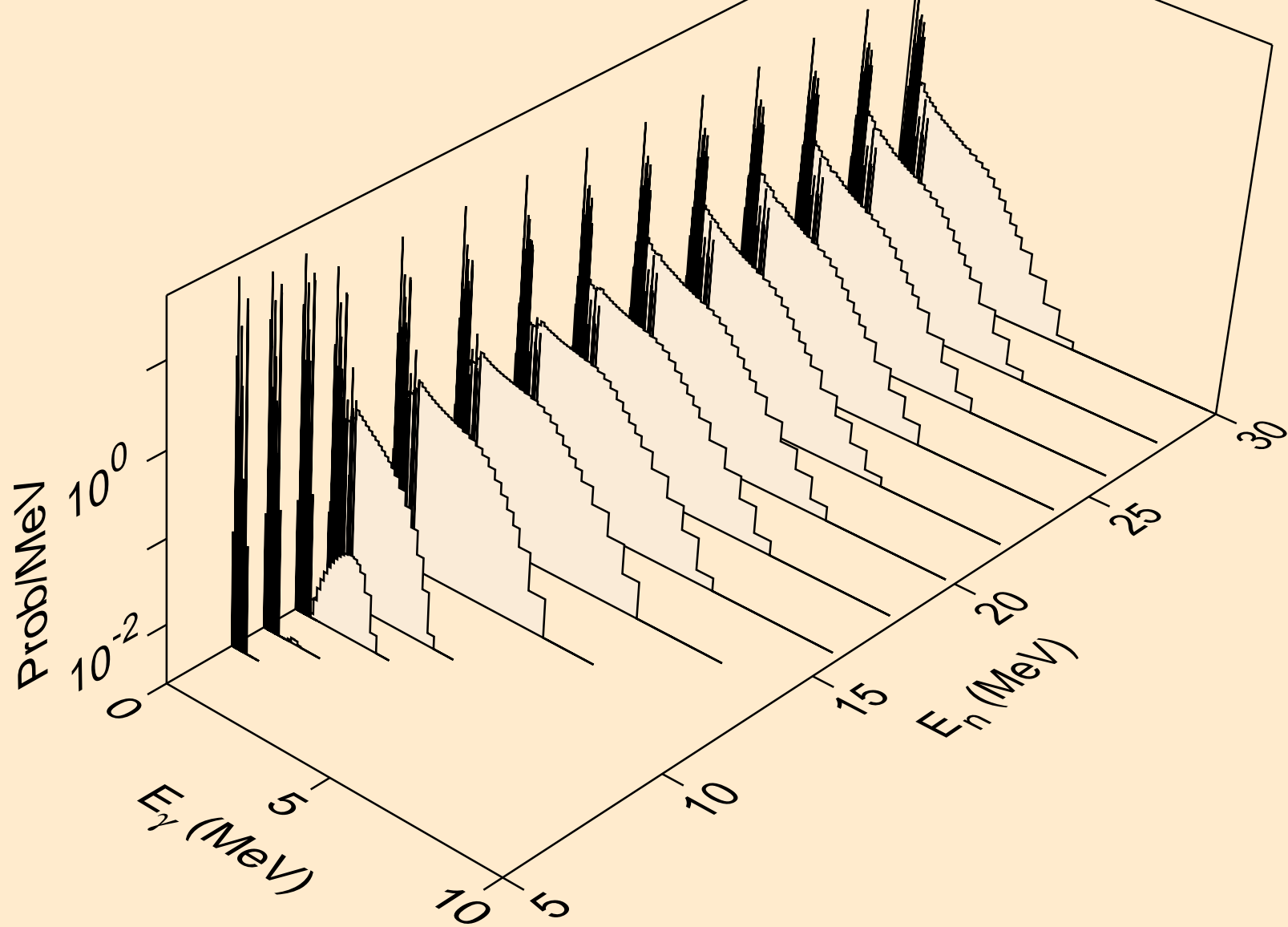
LU178 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (z,x)



LU178 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2nd)

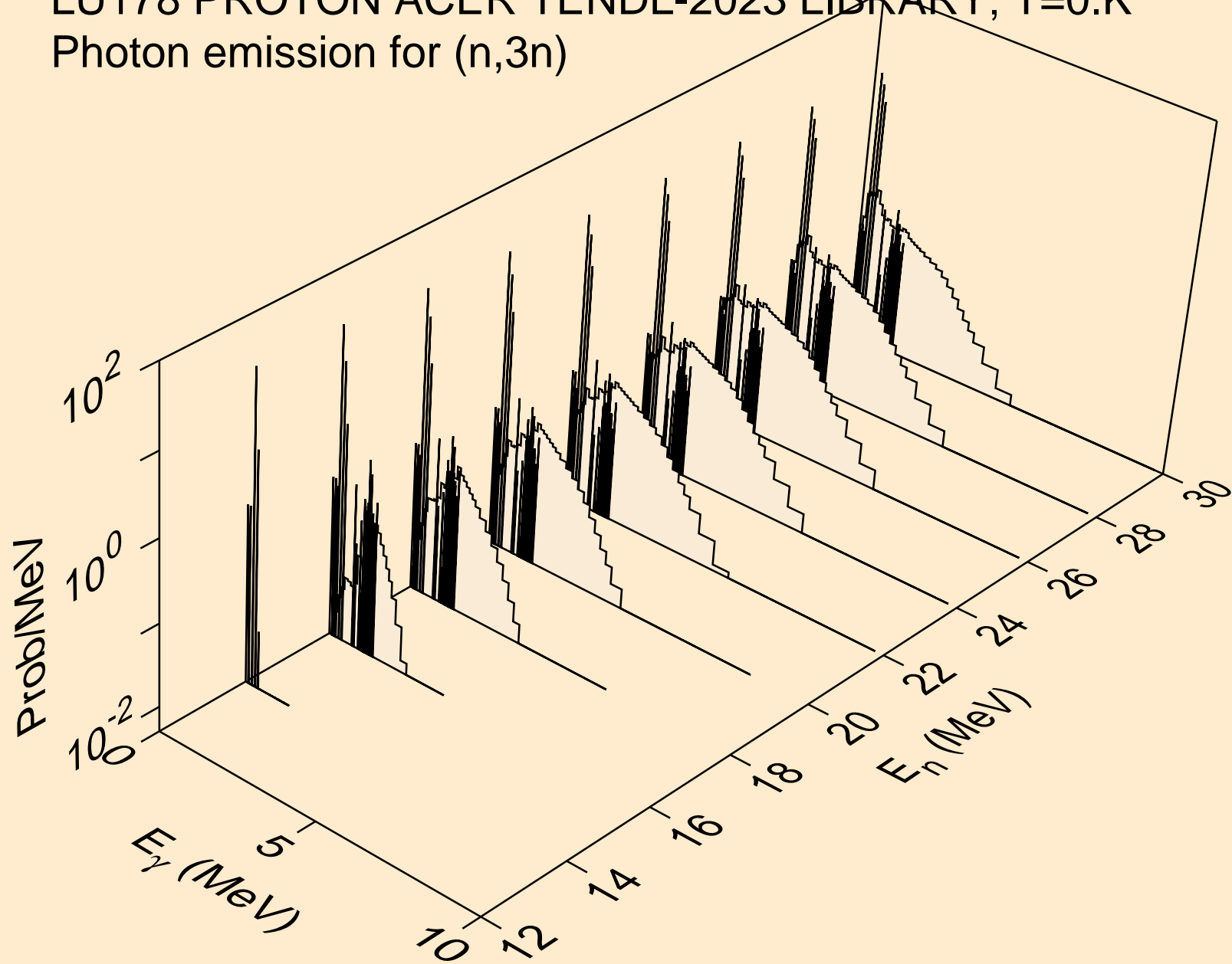


LU178 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2n)

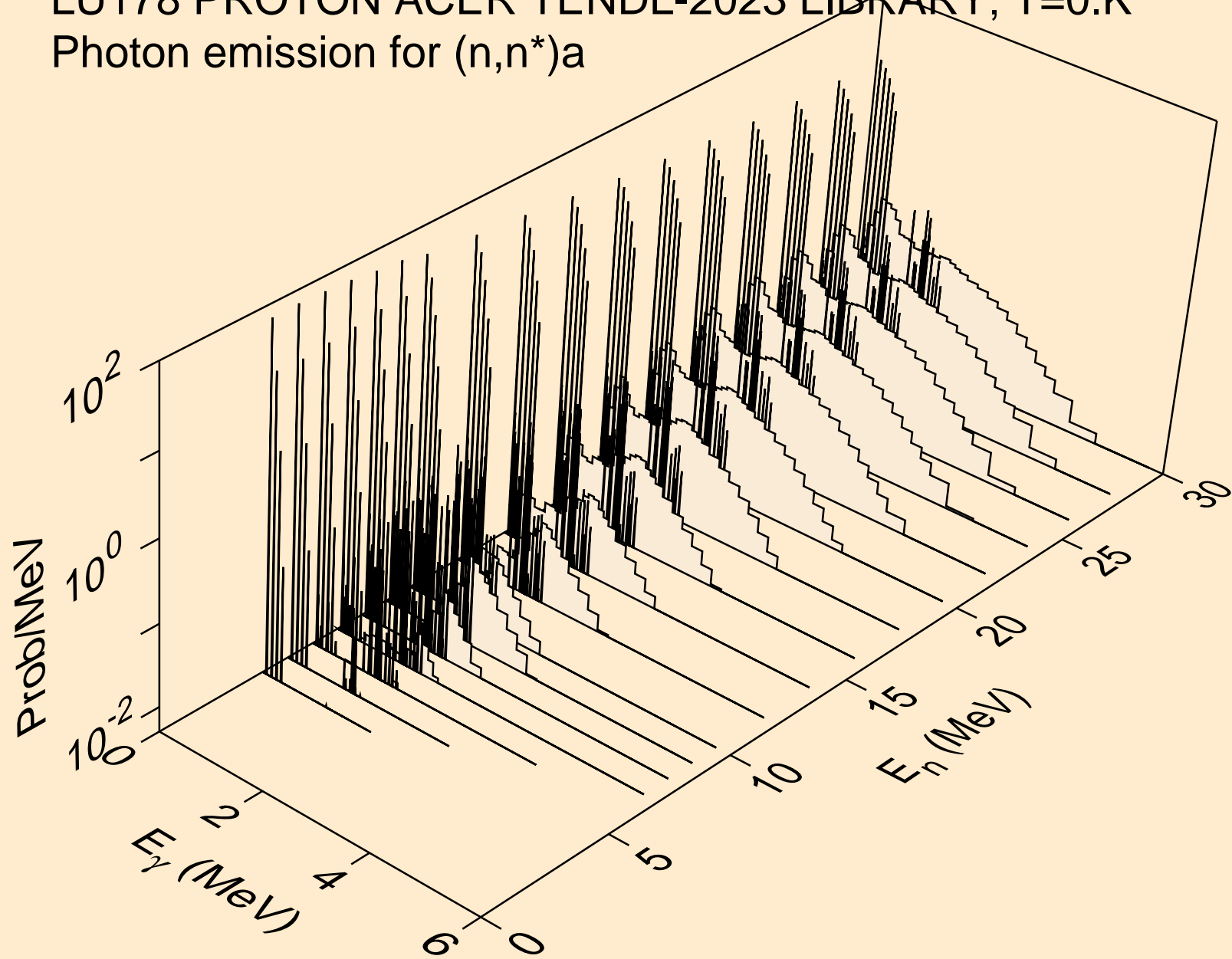




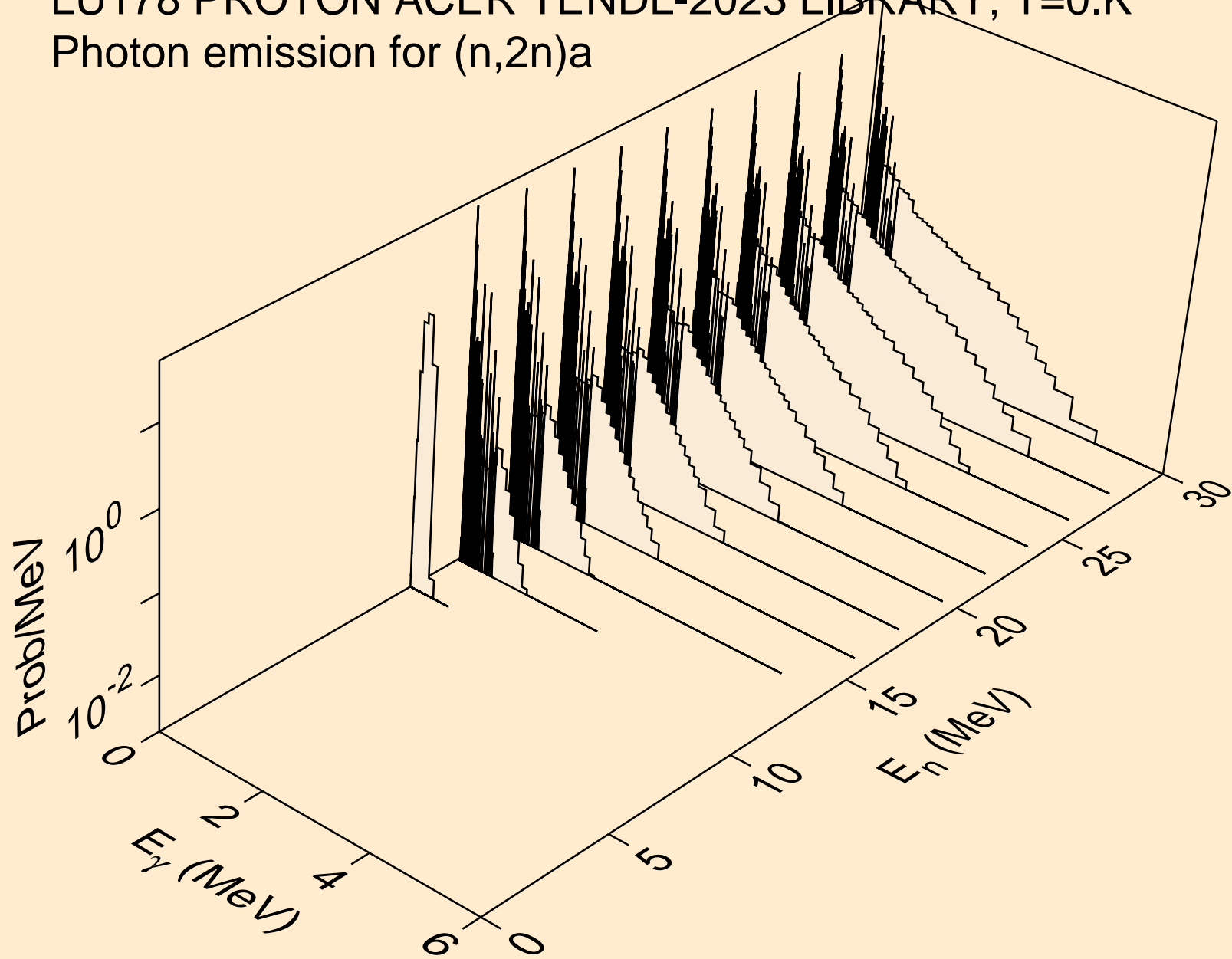
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Photon emission for (n,3n)



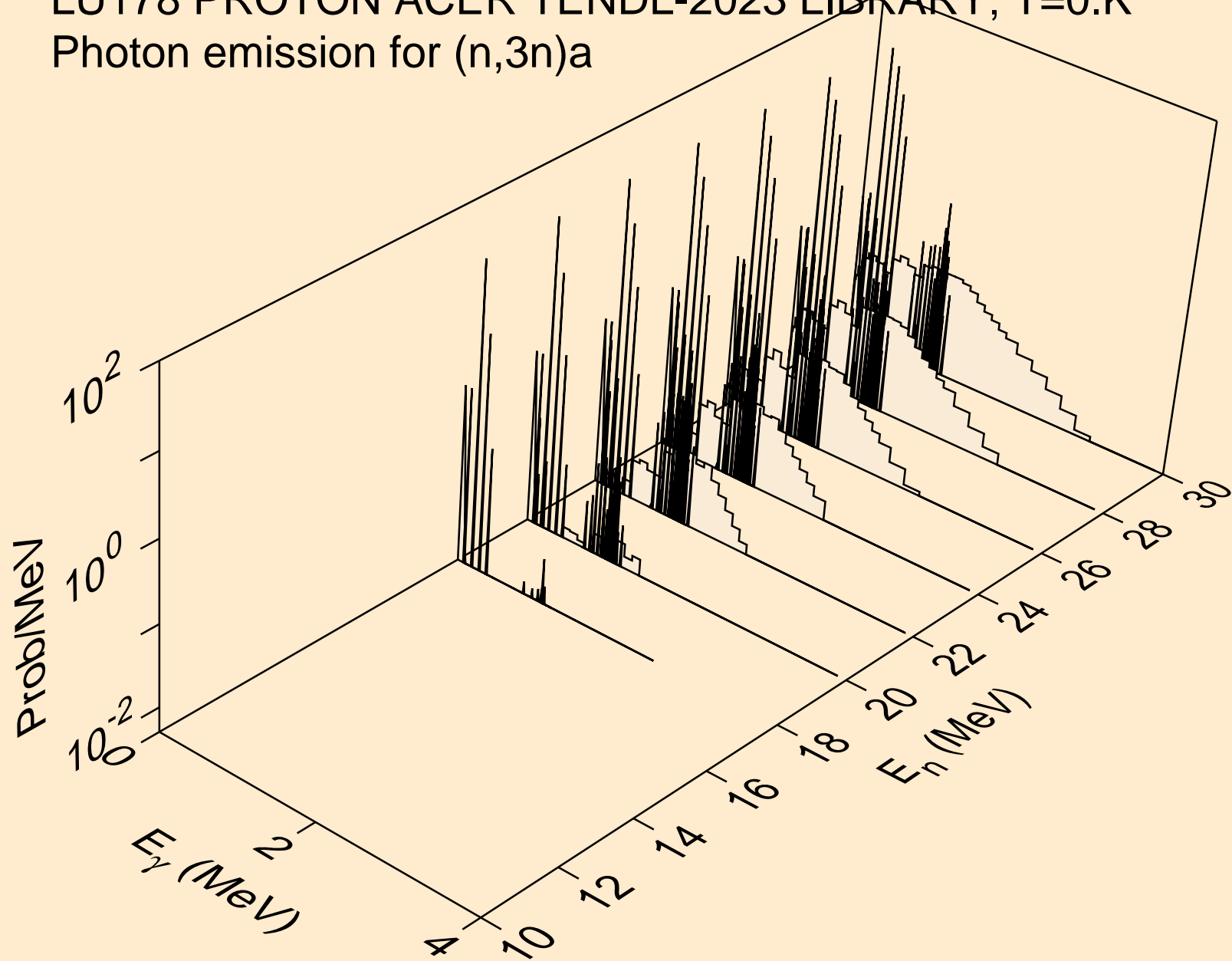
LU178 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)a



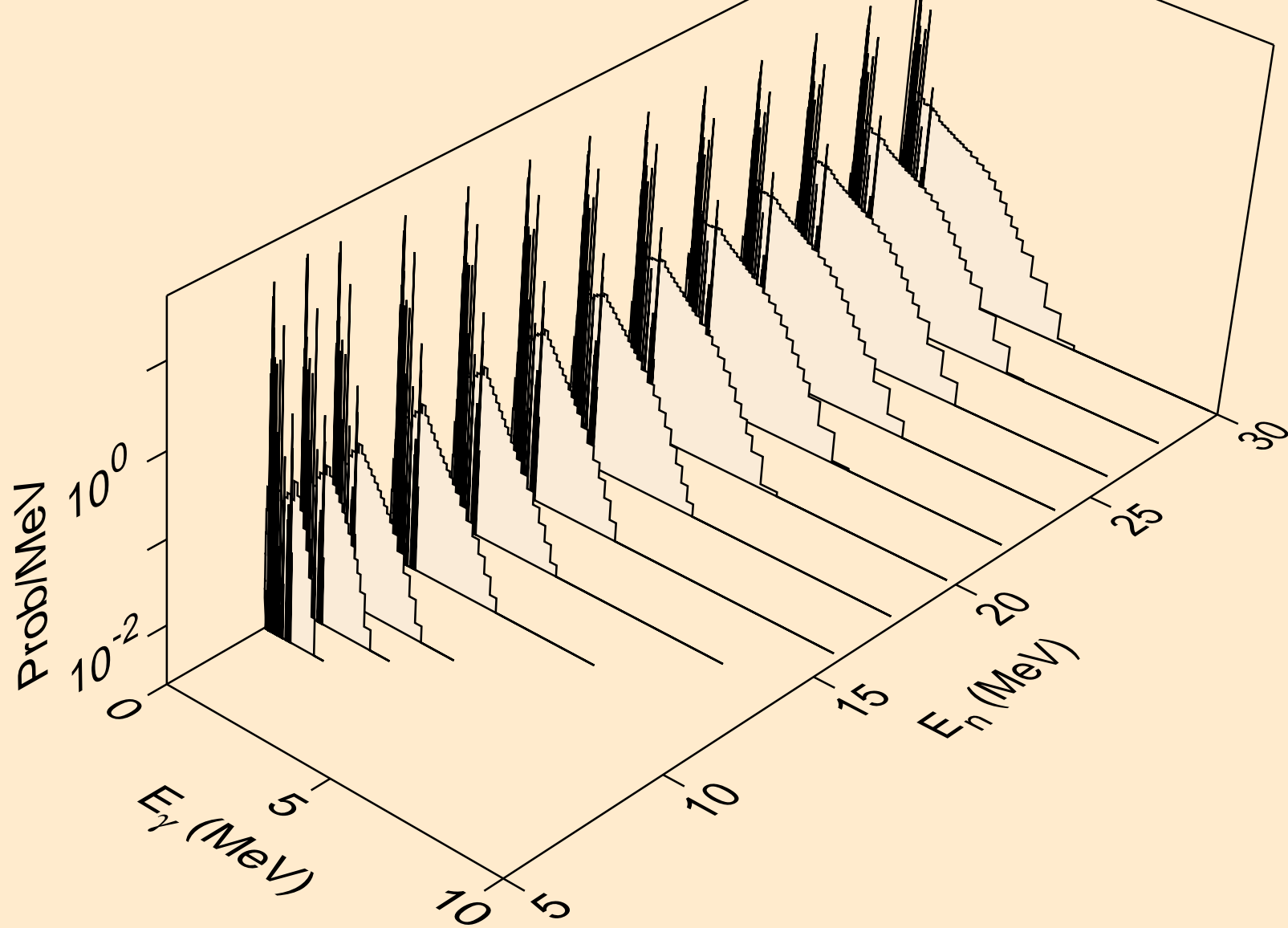
LU178 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2n)a



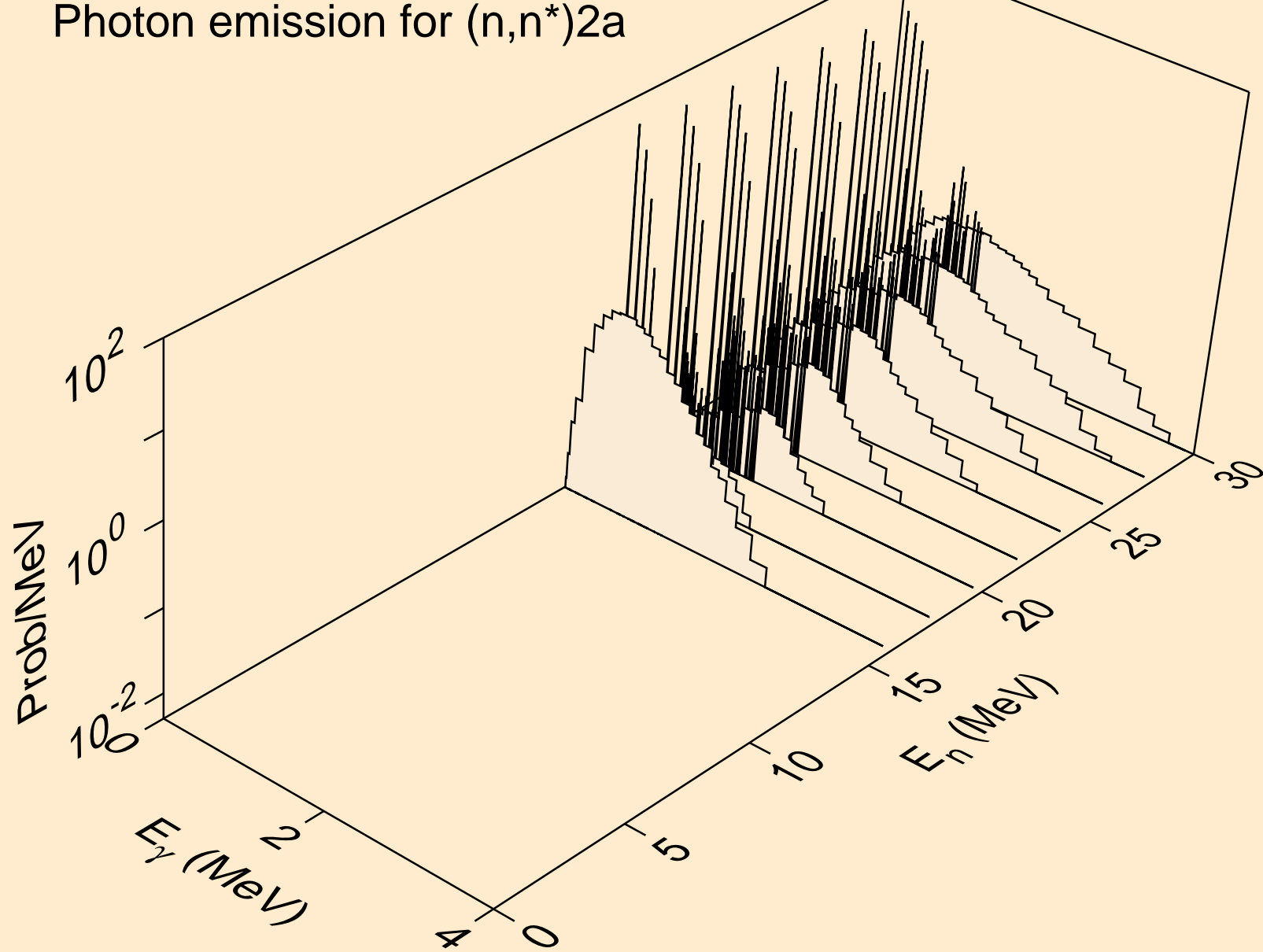
LU178 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,3n)a



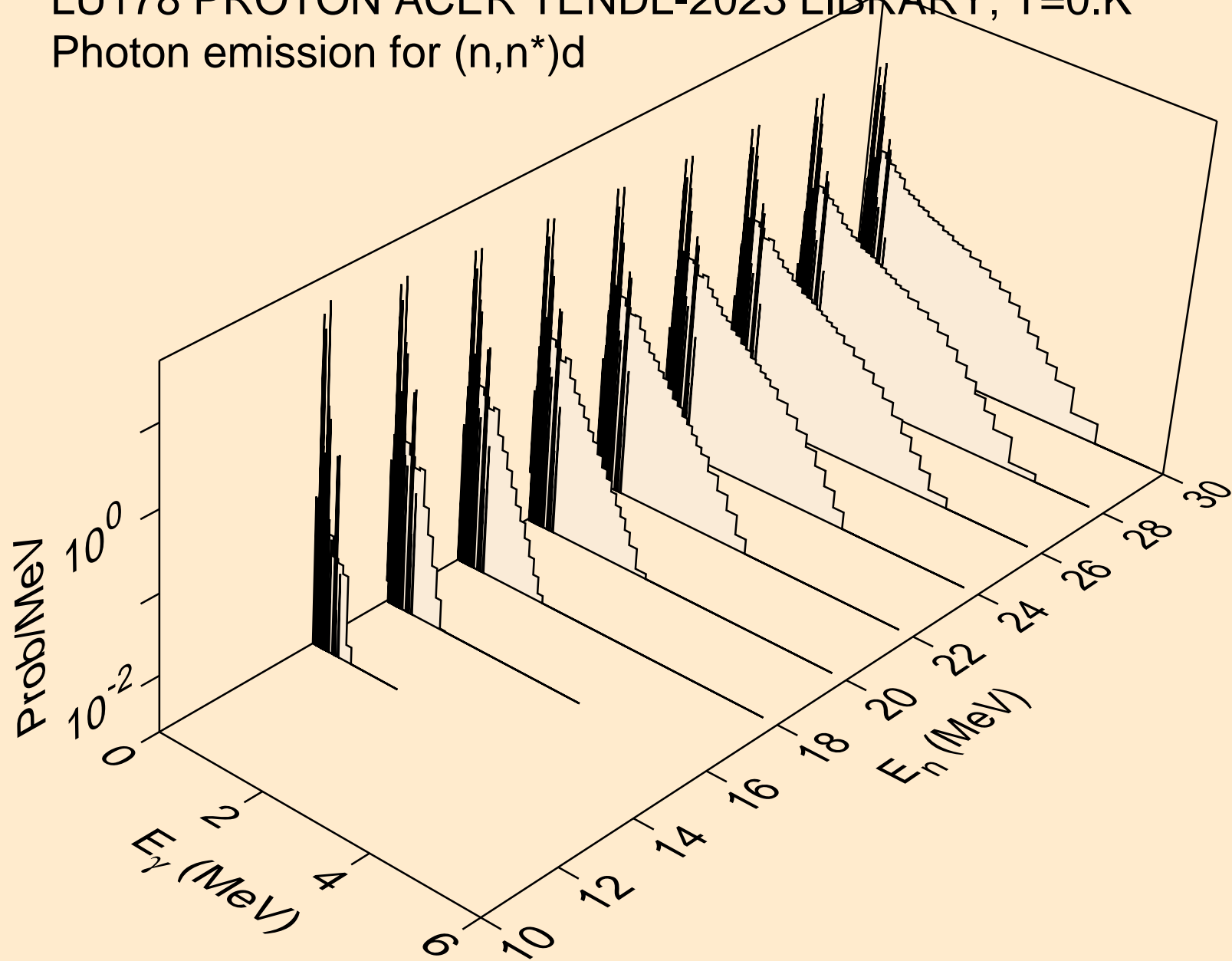
LU178 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)p



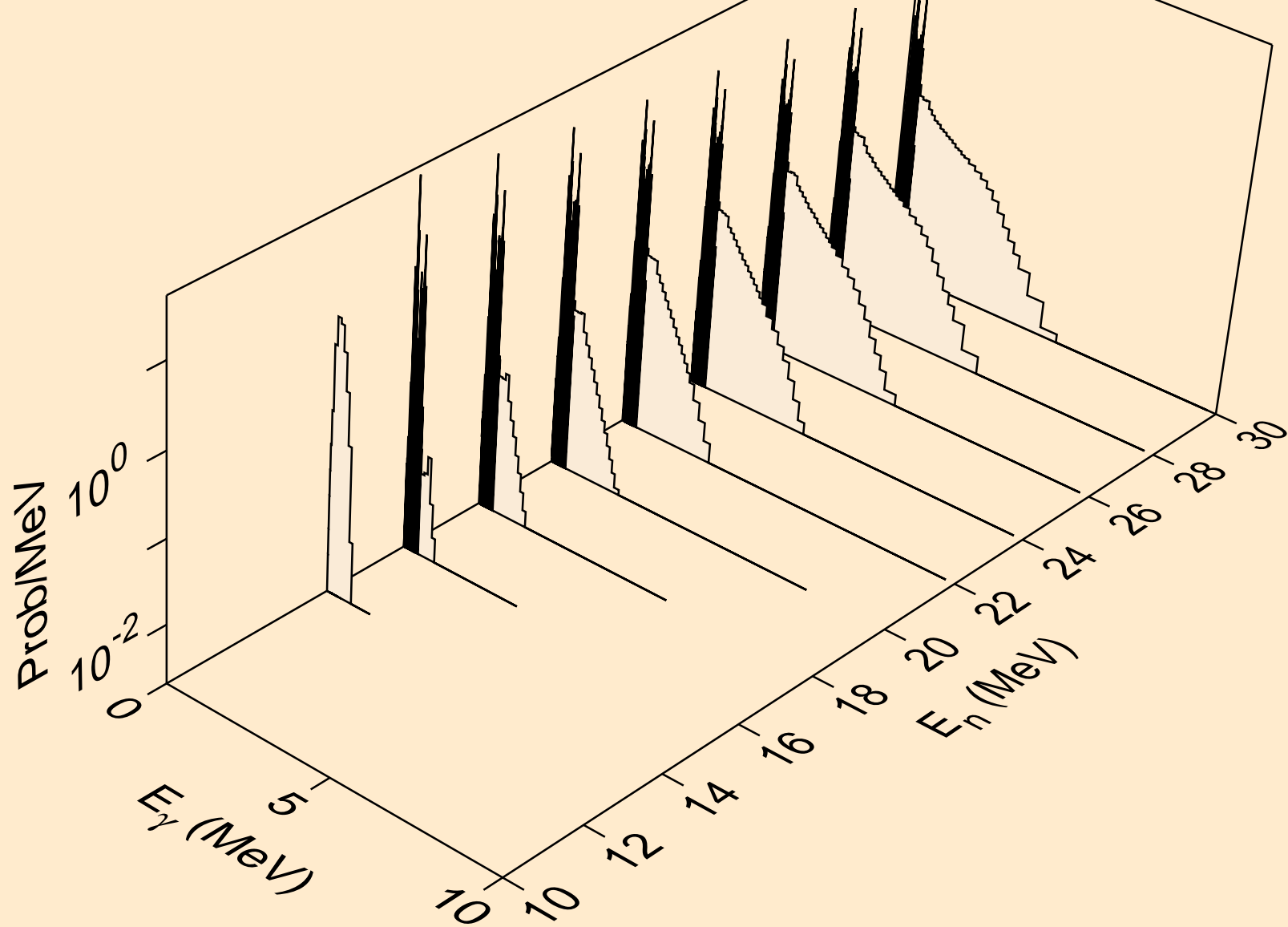
LU178 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)2a



LU178 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)d

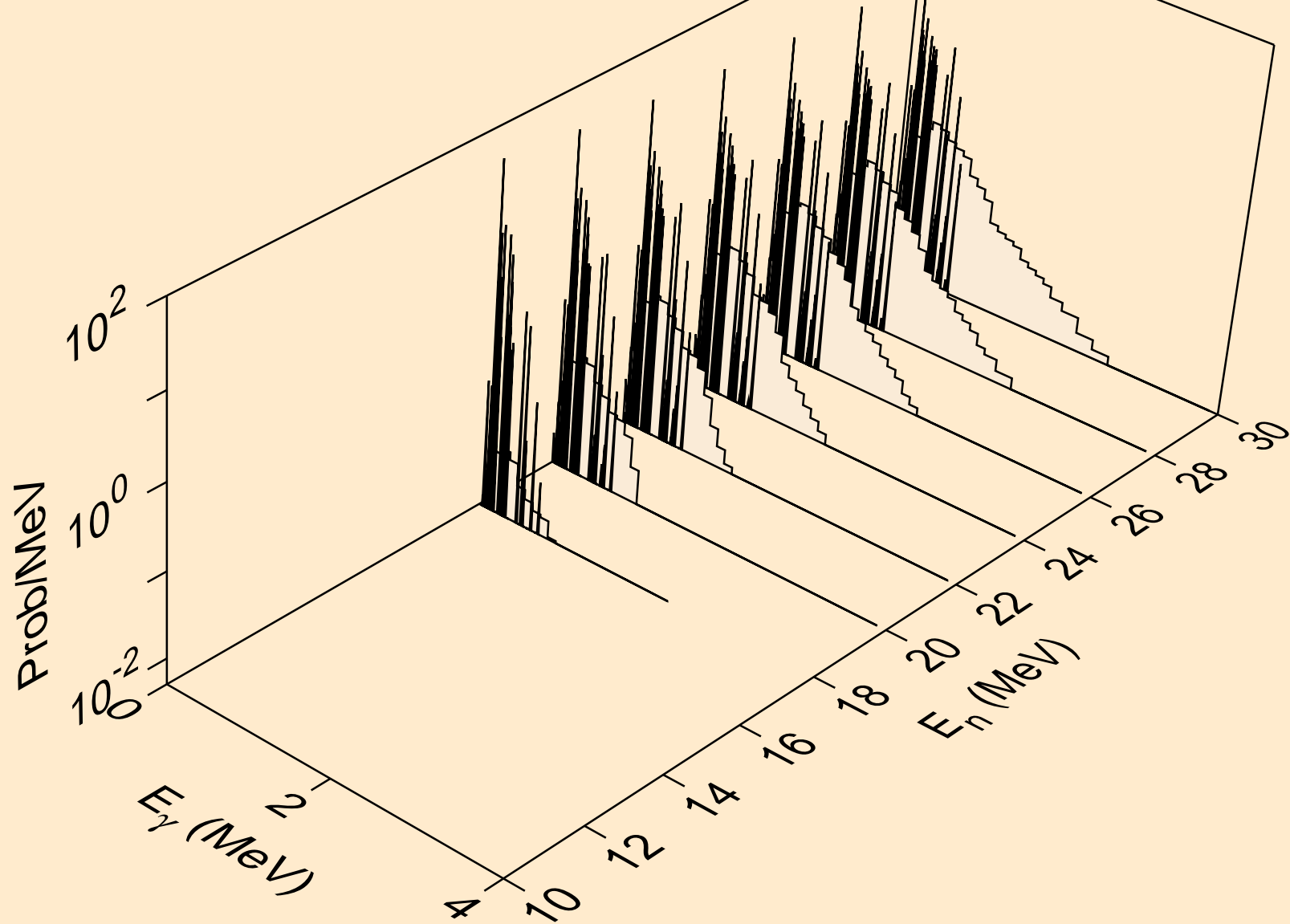


LU178 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)t

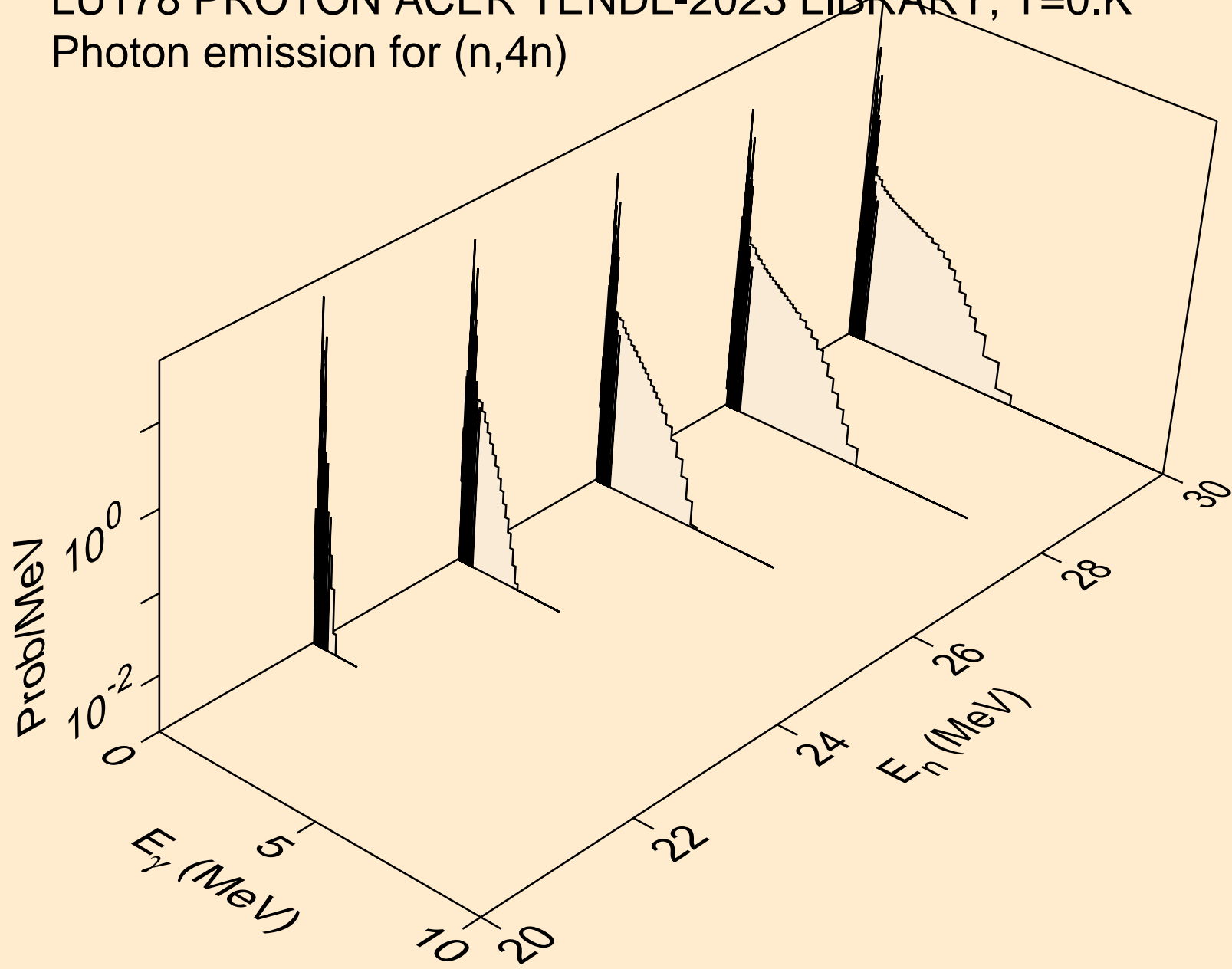




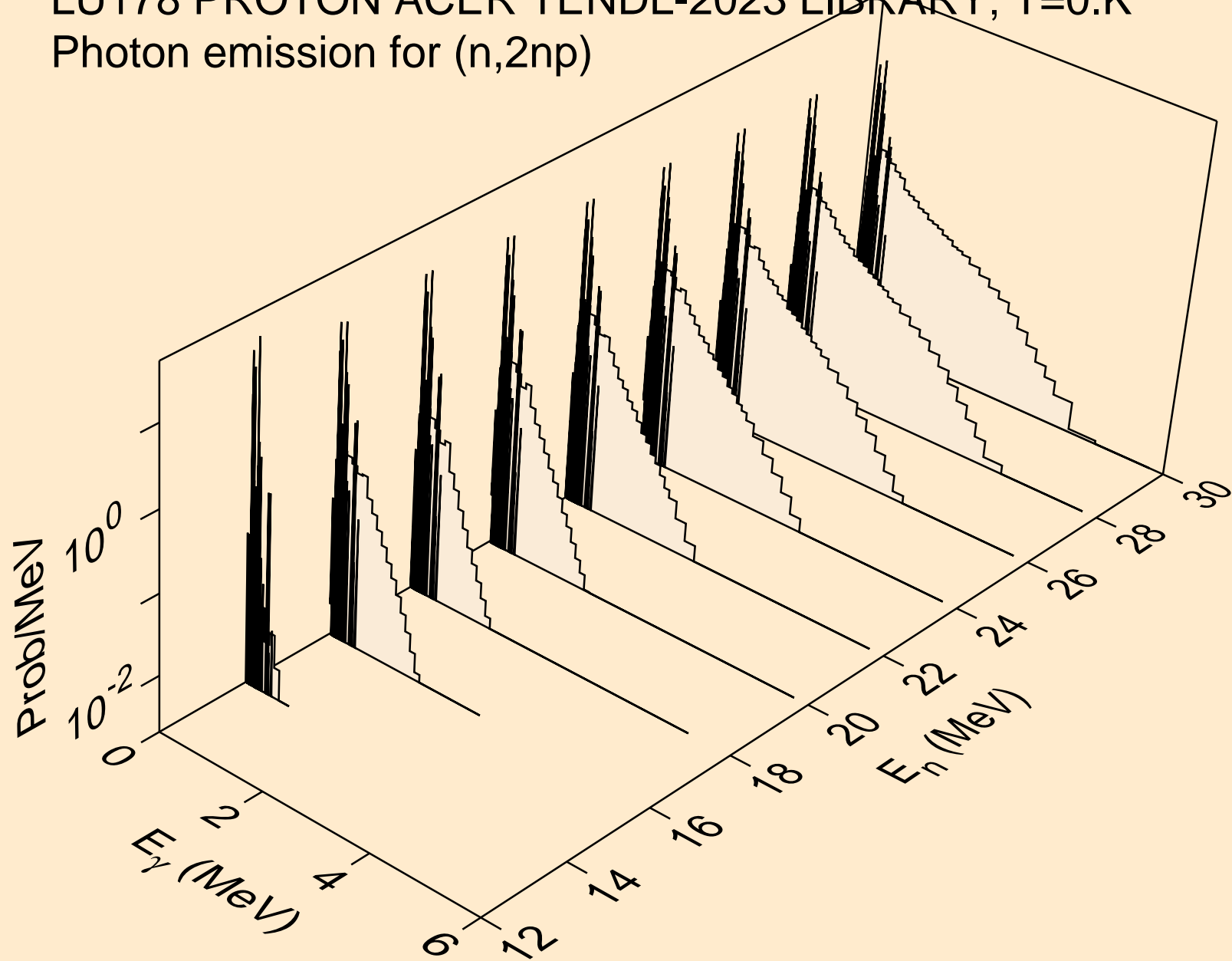
LU178 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)he3



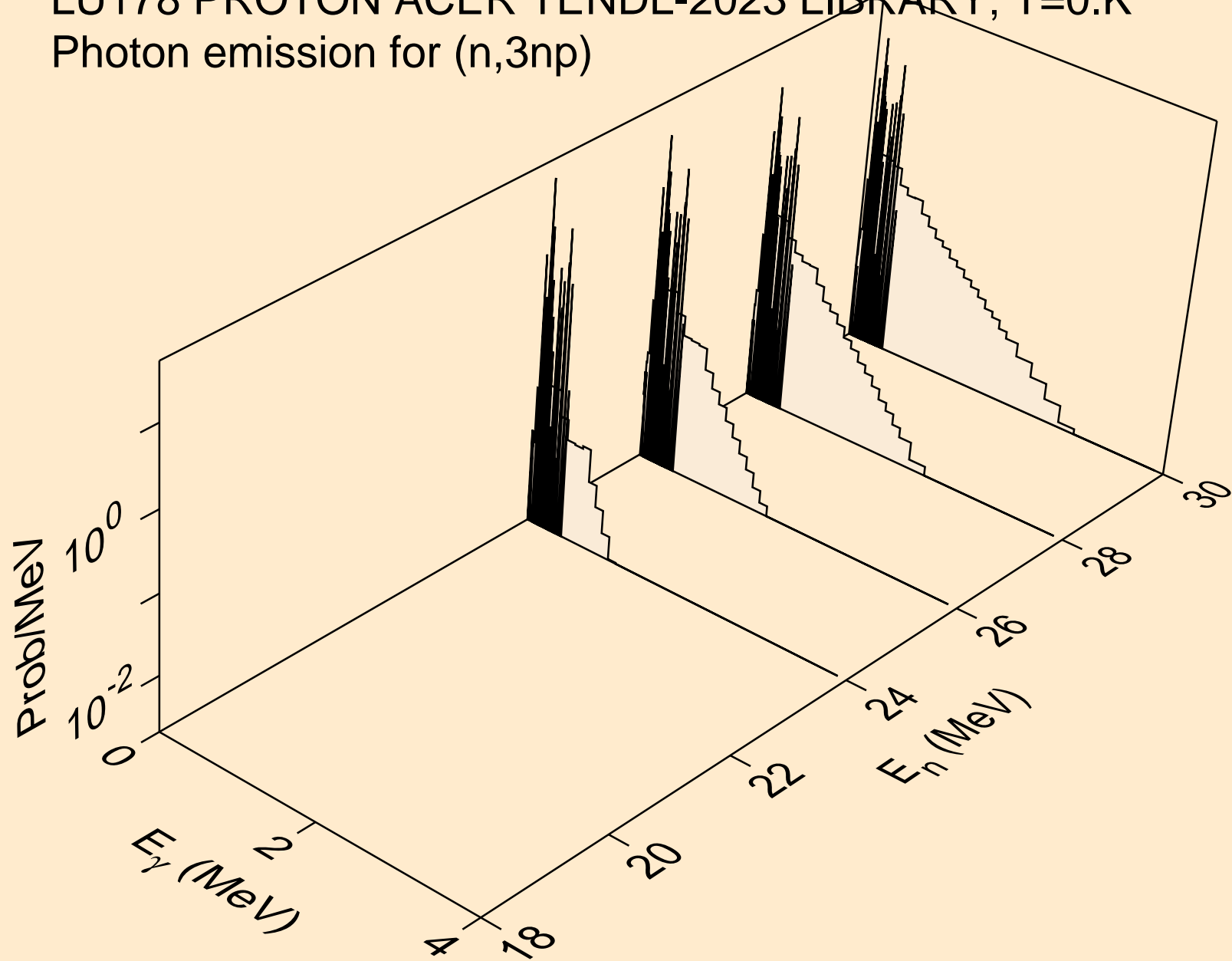
LU178 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,4n)



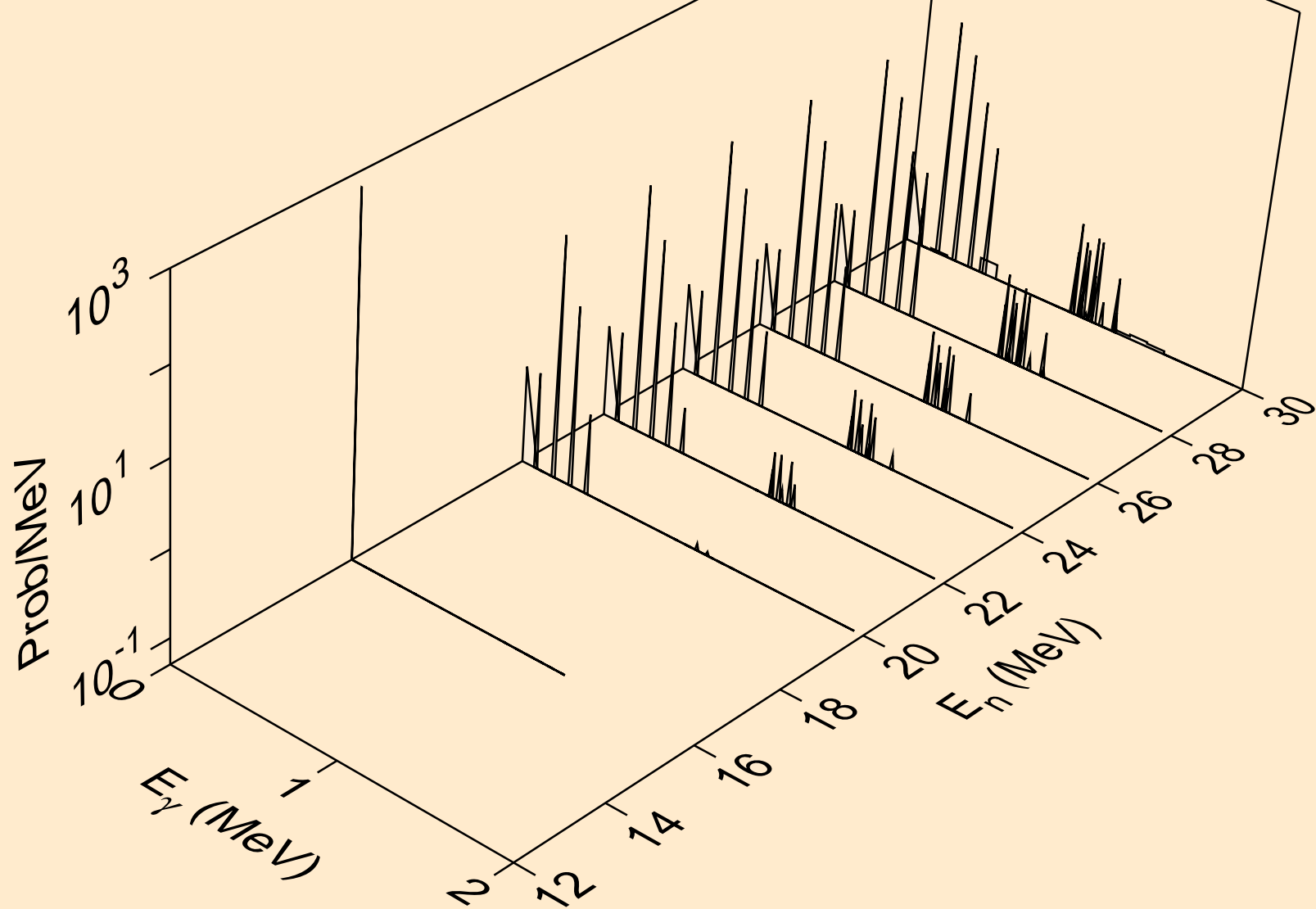
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Photon emission for (n,2np)



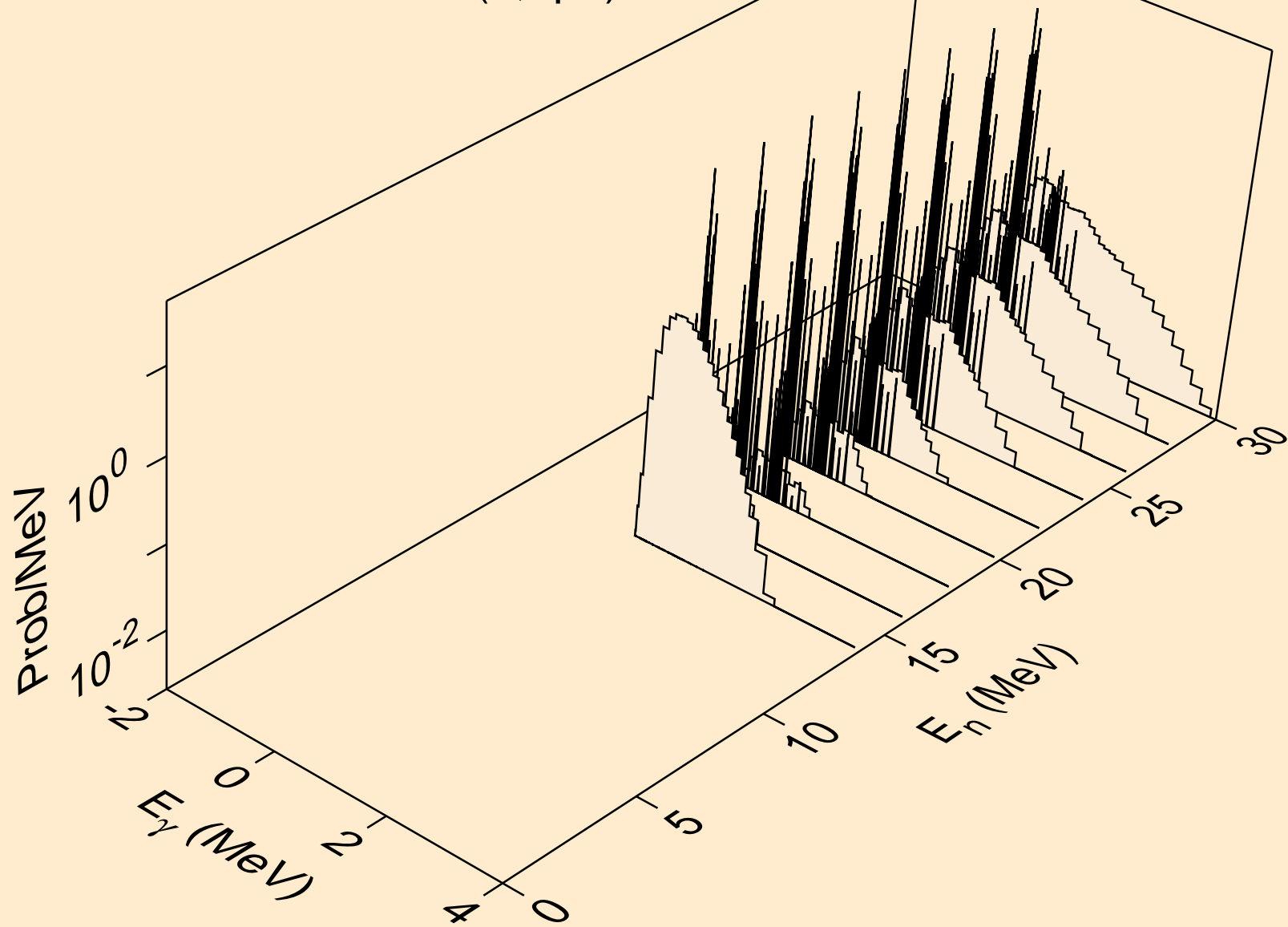
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Photon emission for (n,3np)



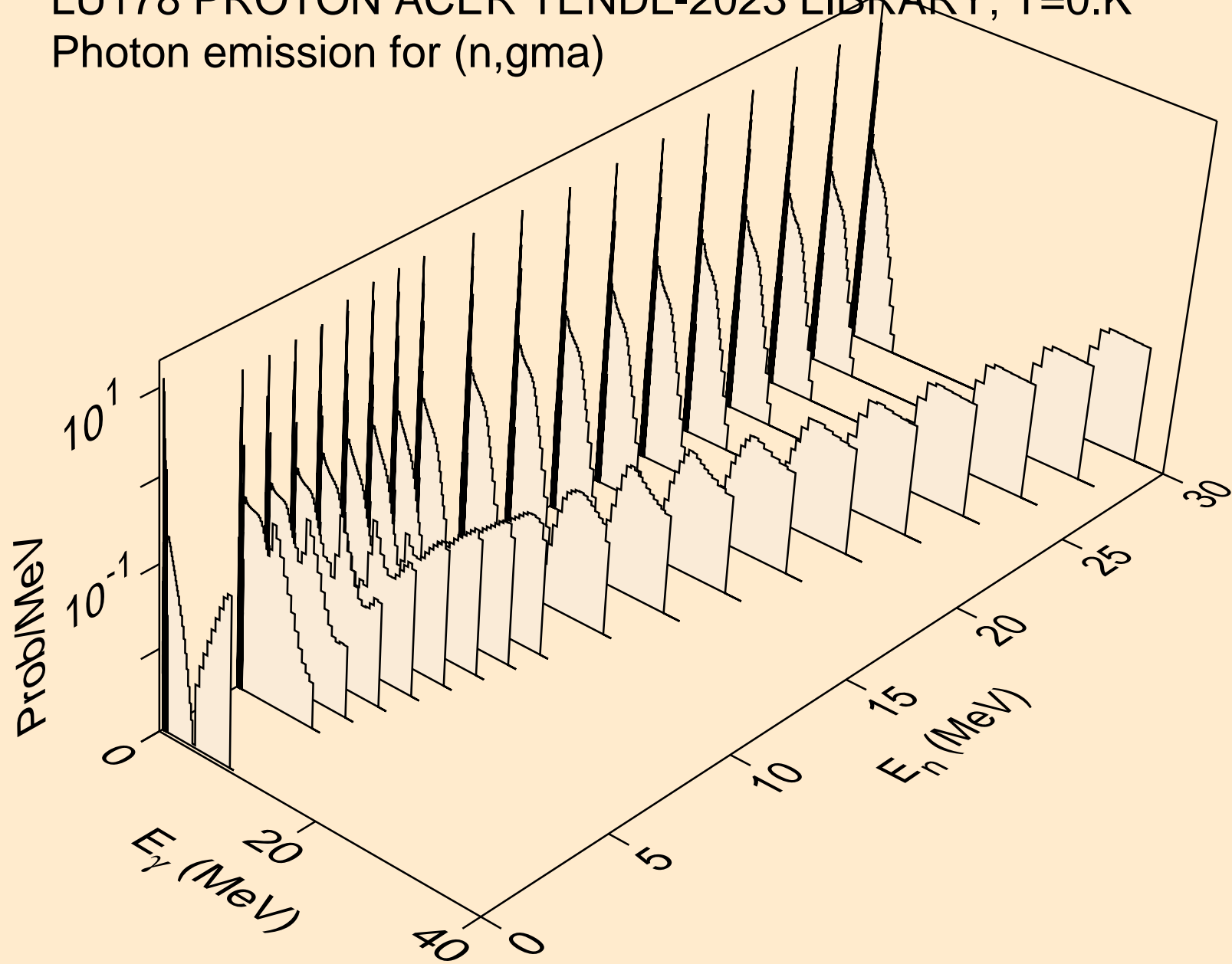
LU178 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n2p)



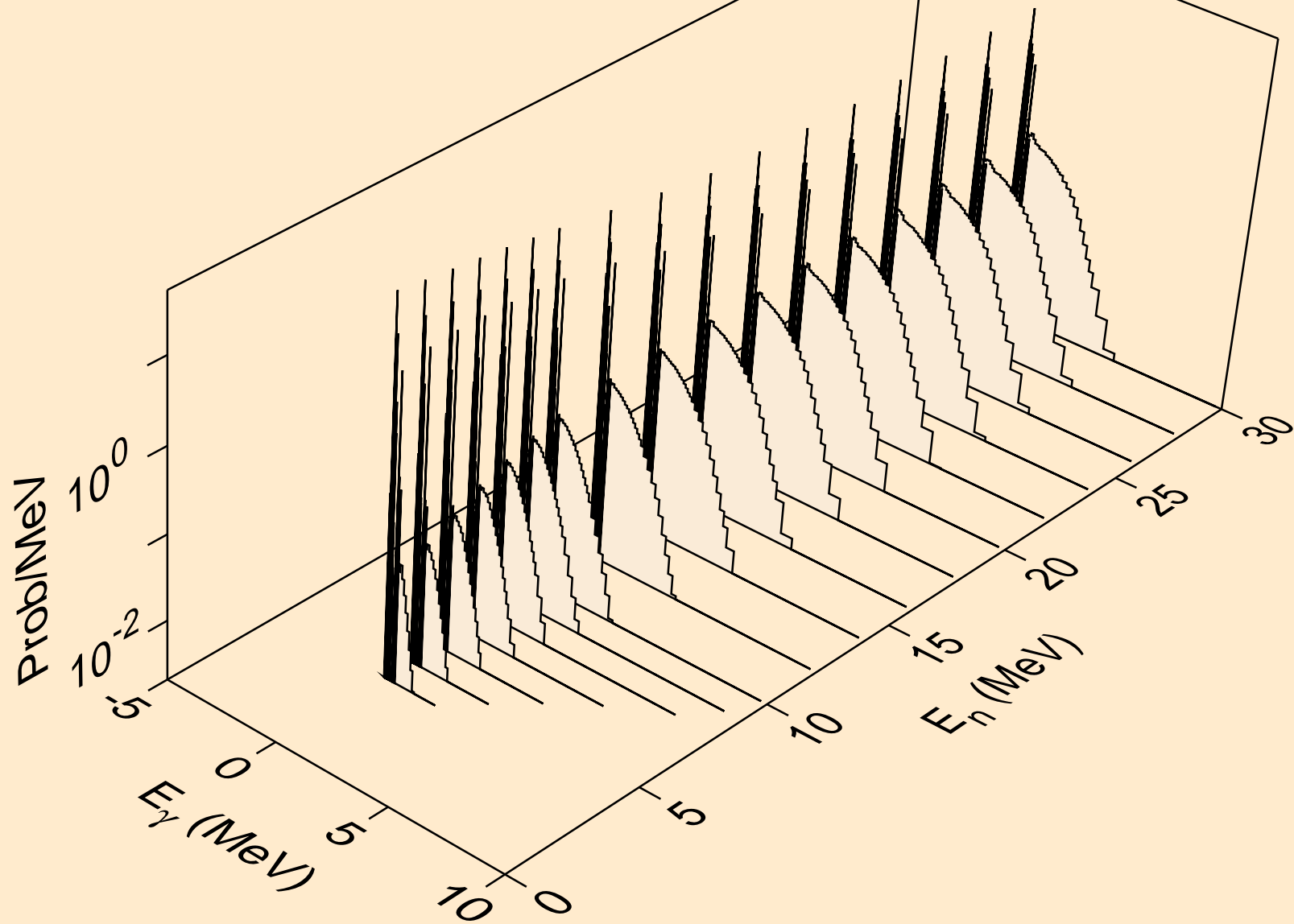
LU178 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,npa)



LU178 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,gma)

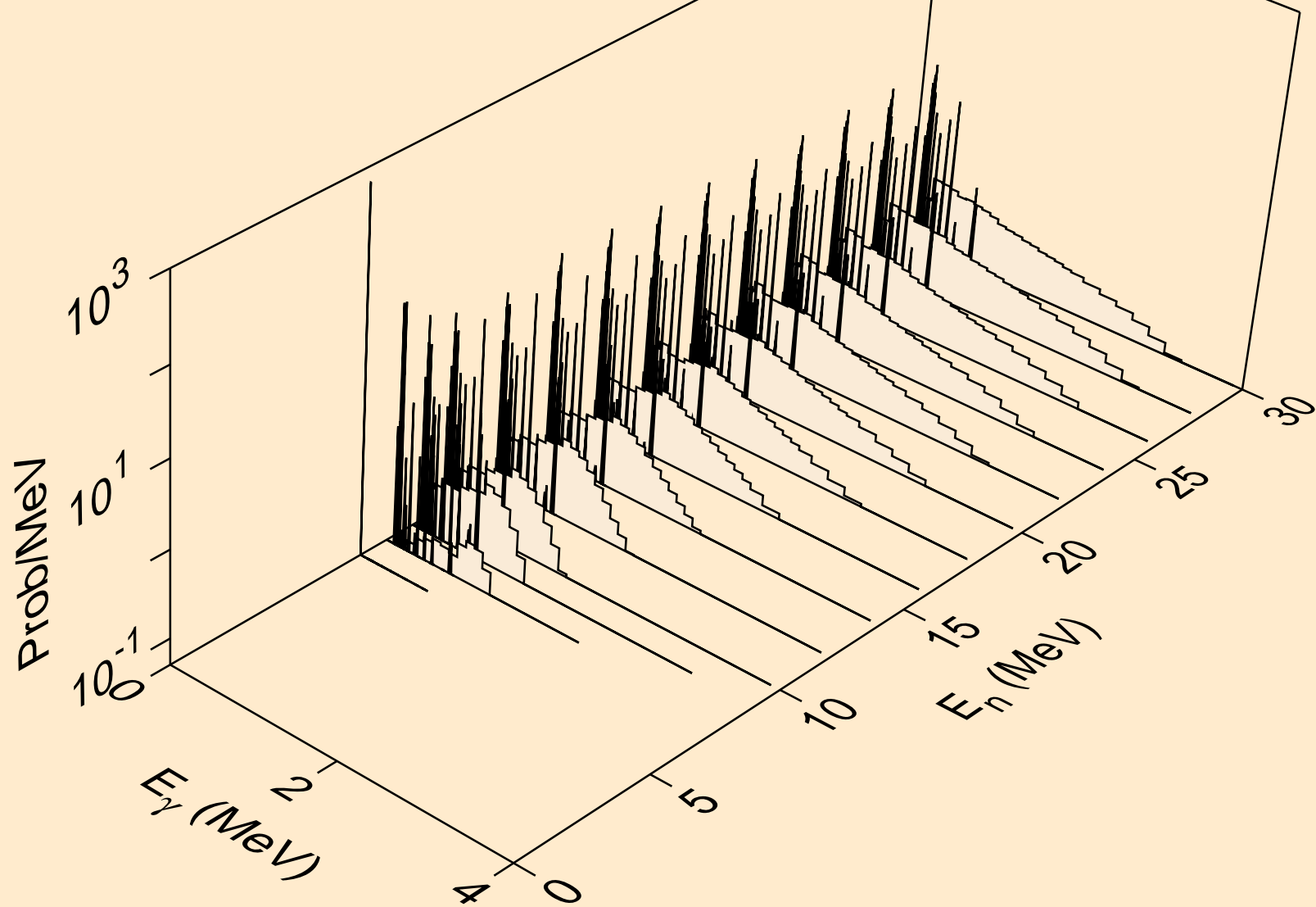


LU178 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for inelastic

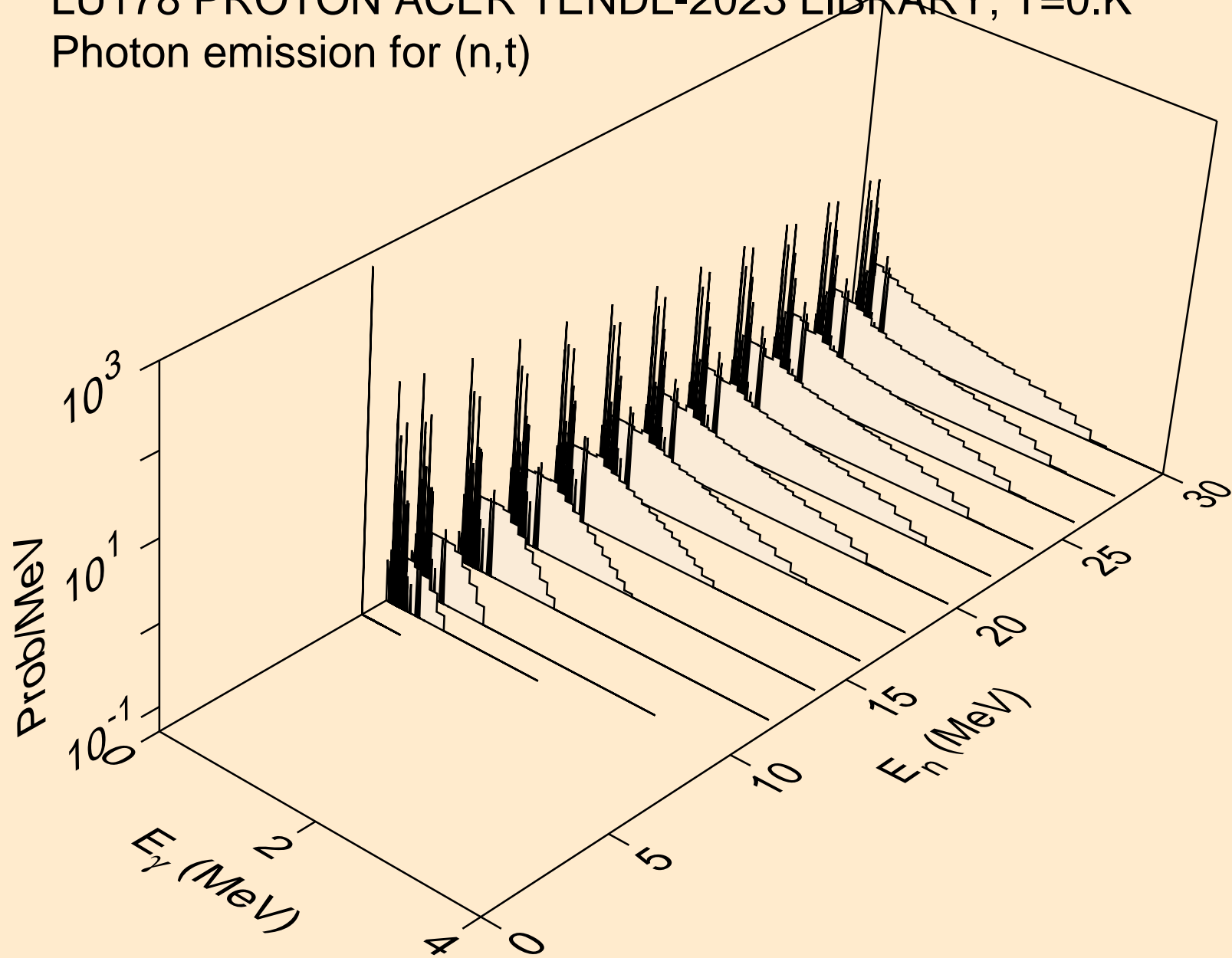




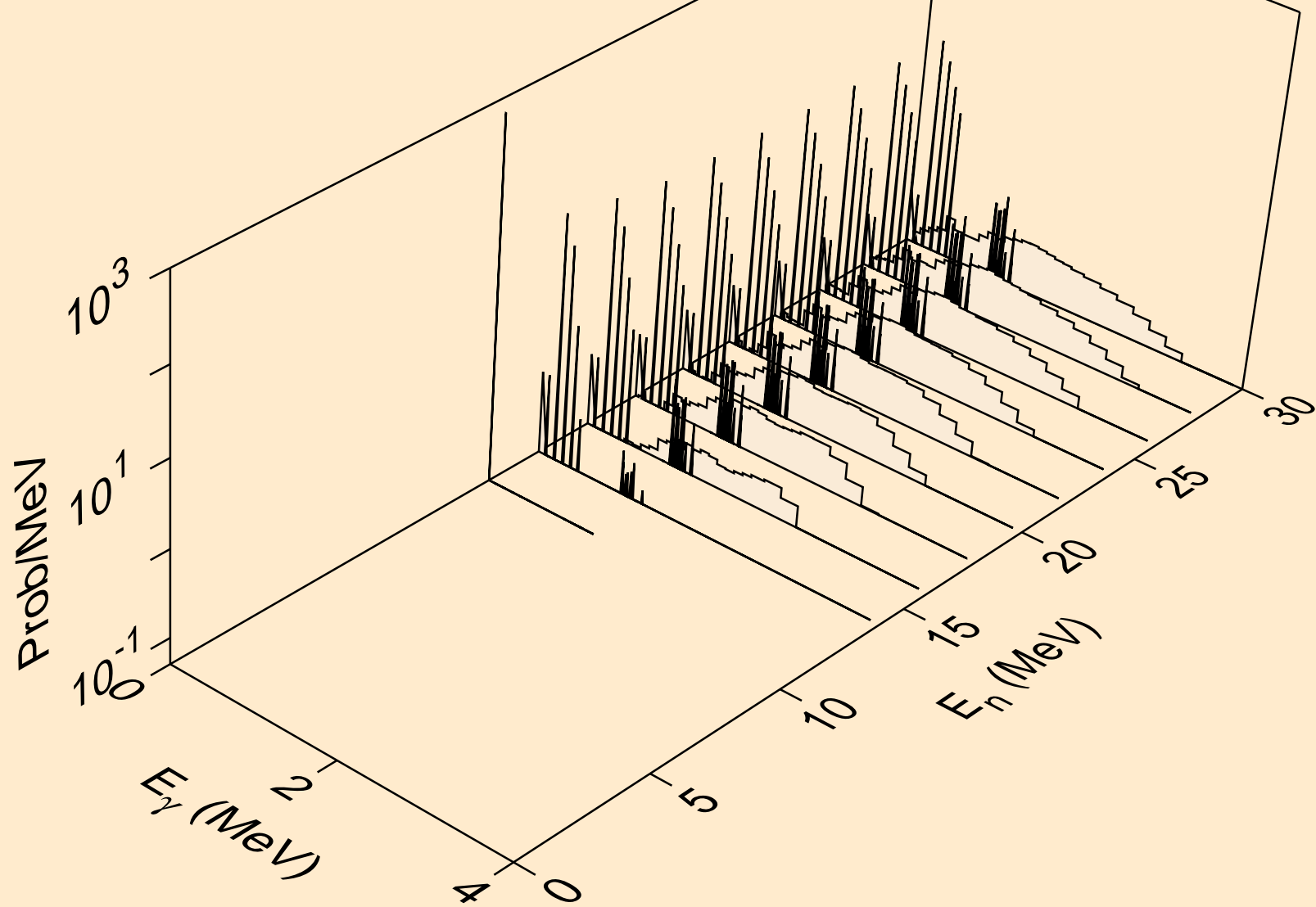
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Photon emission for (n,d)



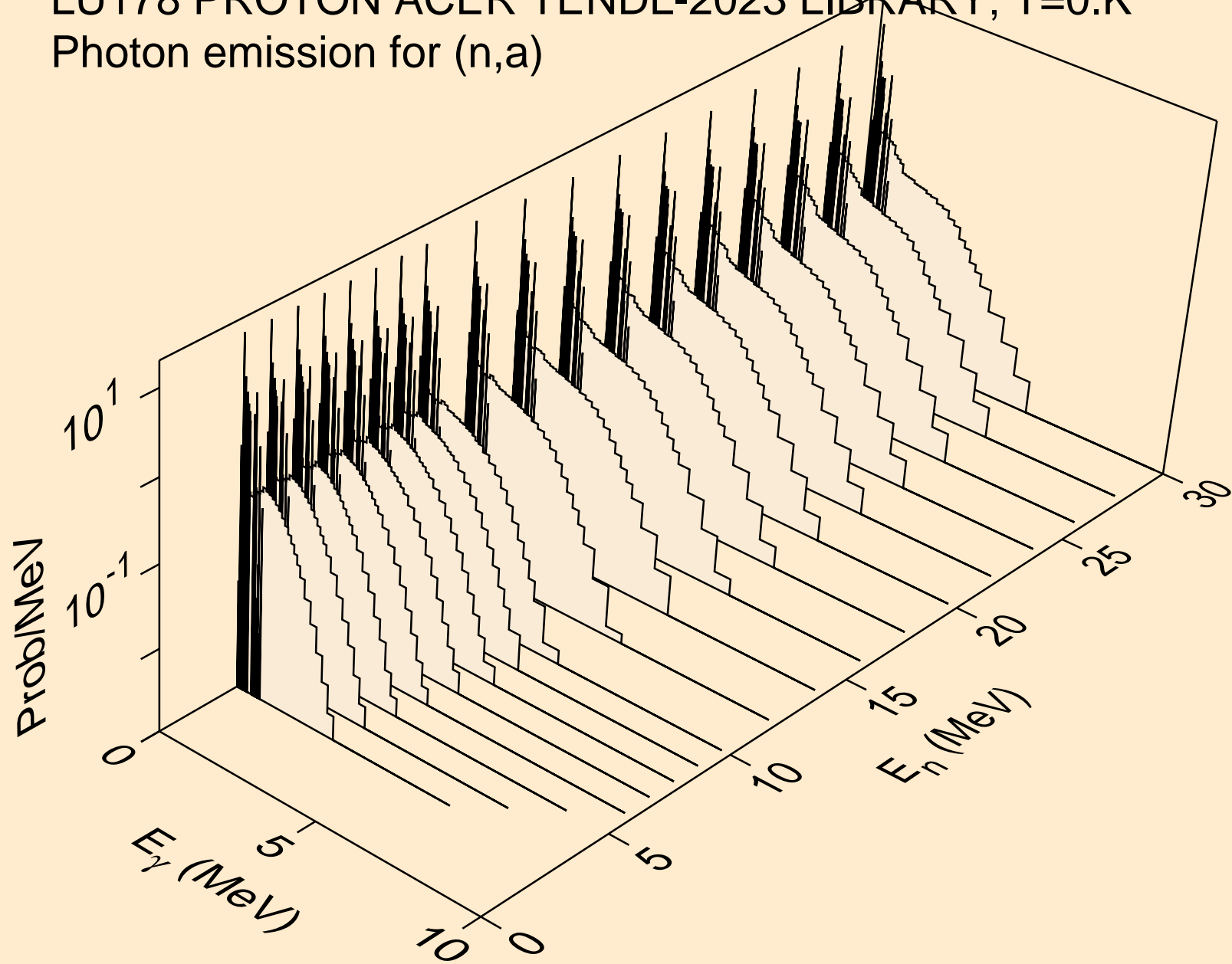
LU178 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,t)



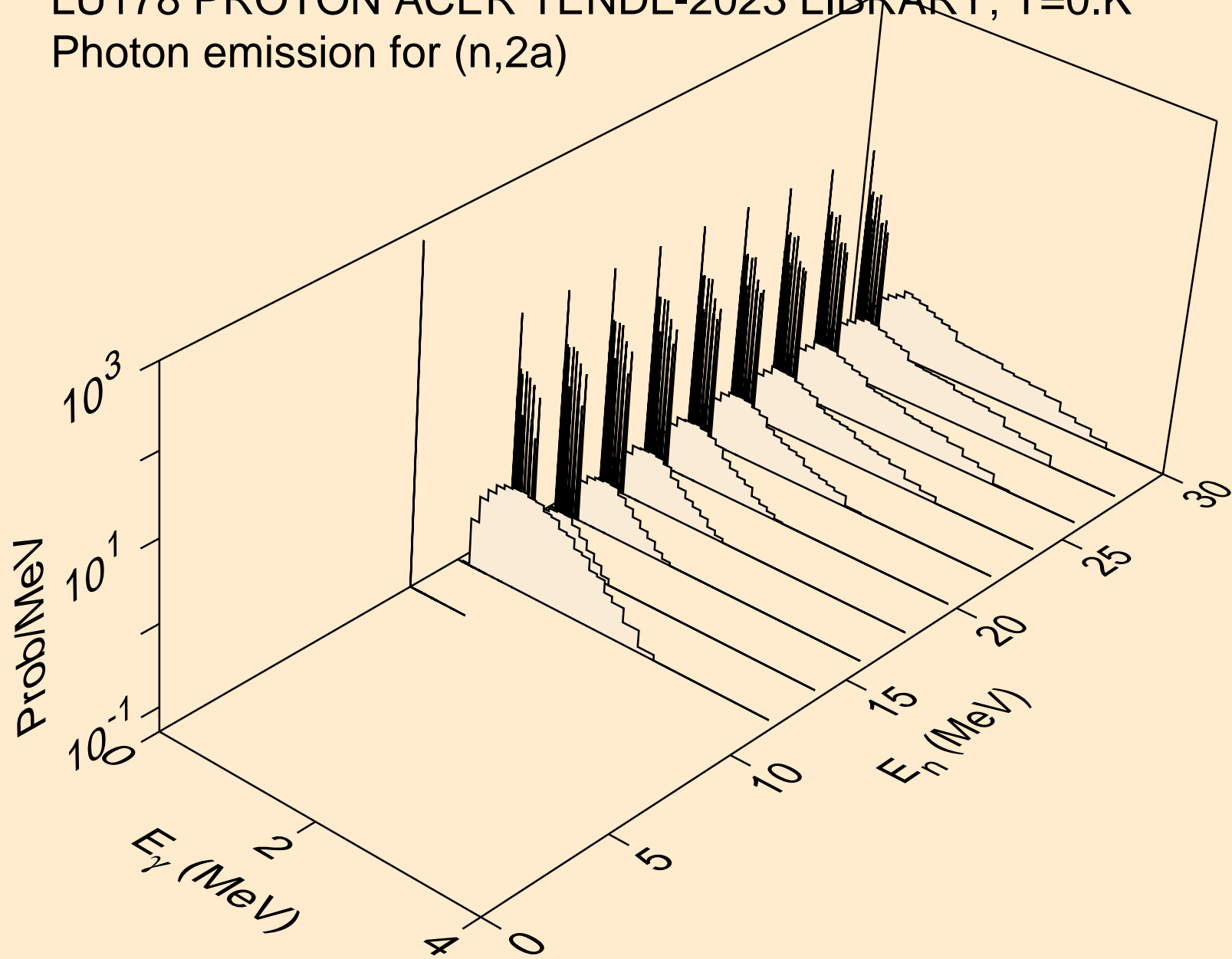
LU178 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,he3)



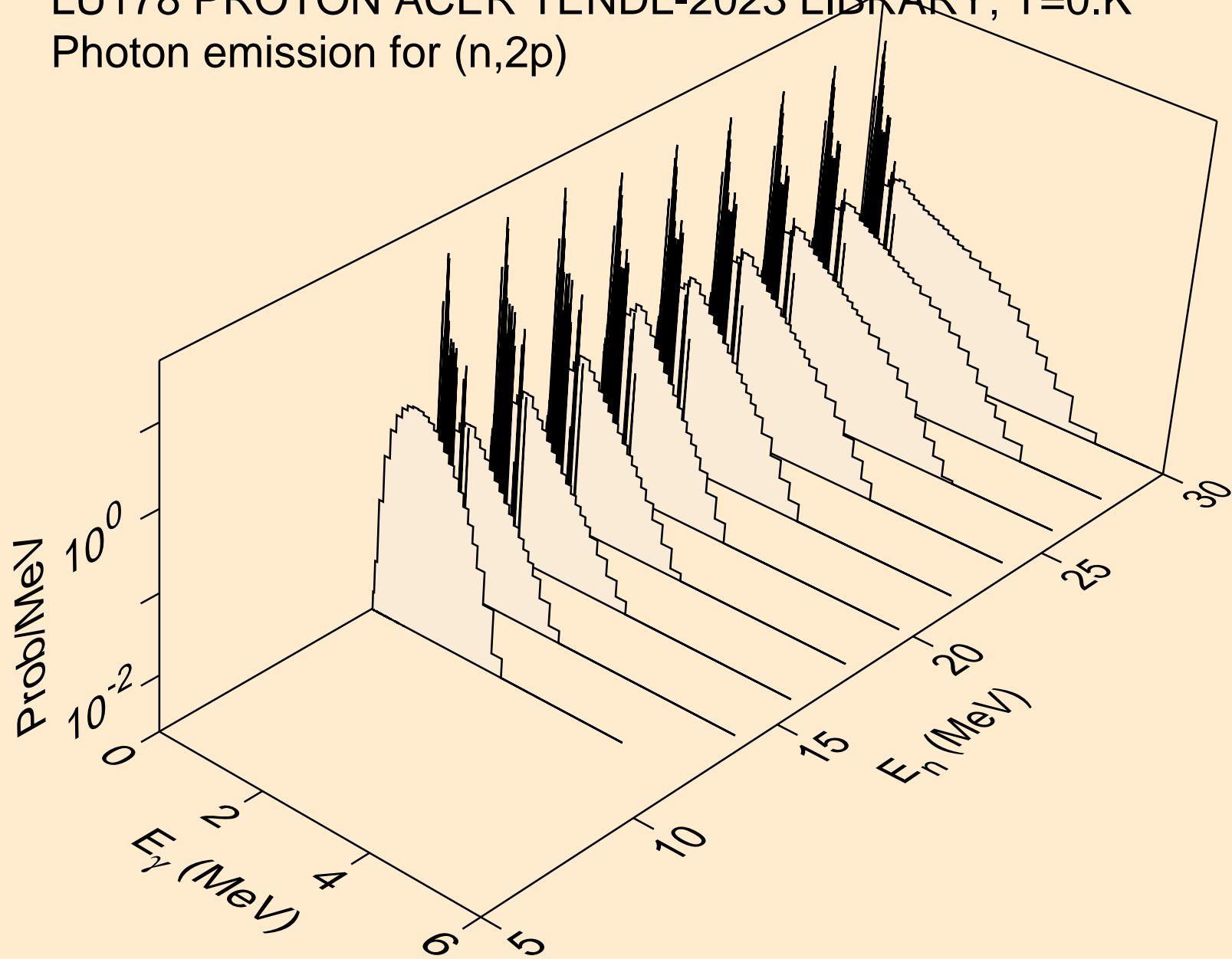
LU178 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,a)



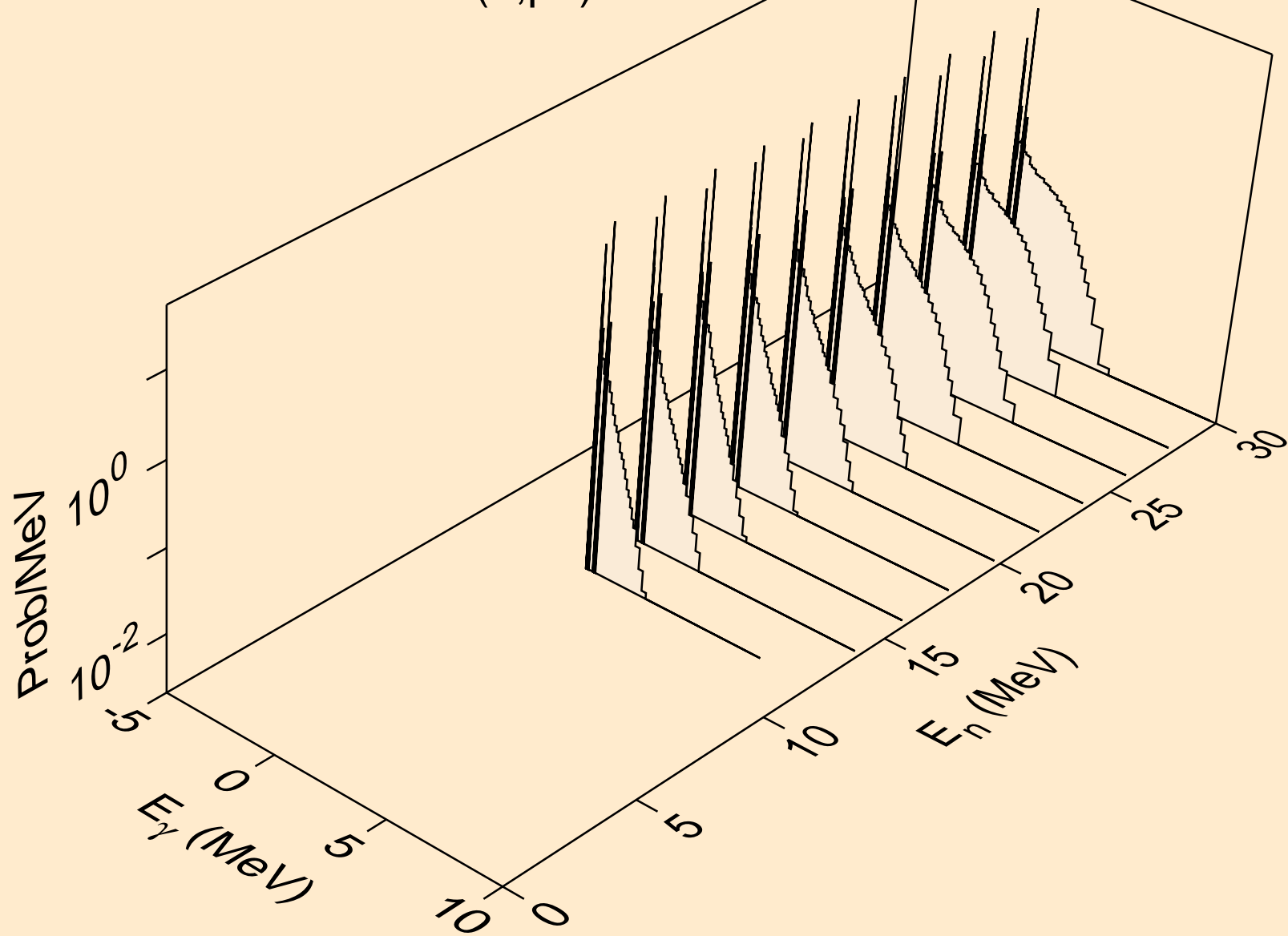
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Photon emission for (n,2a)



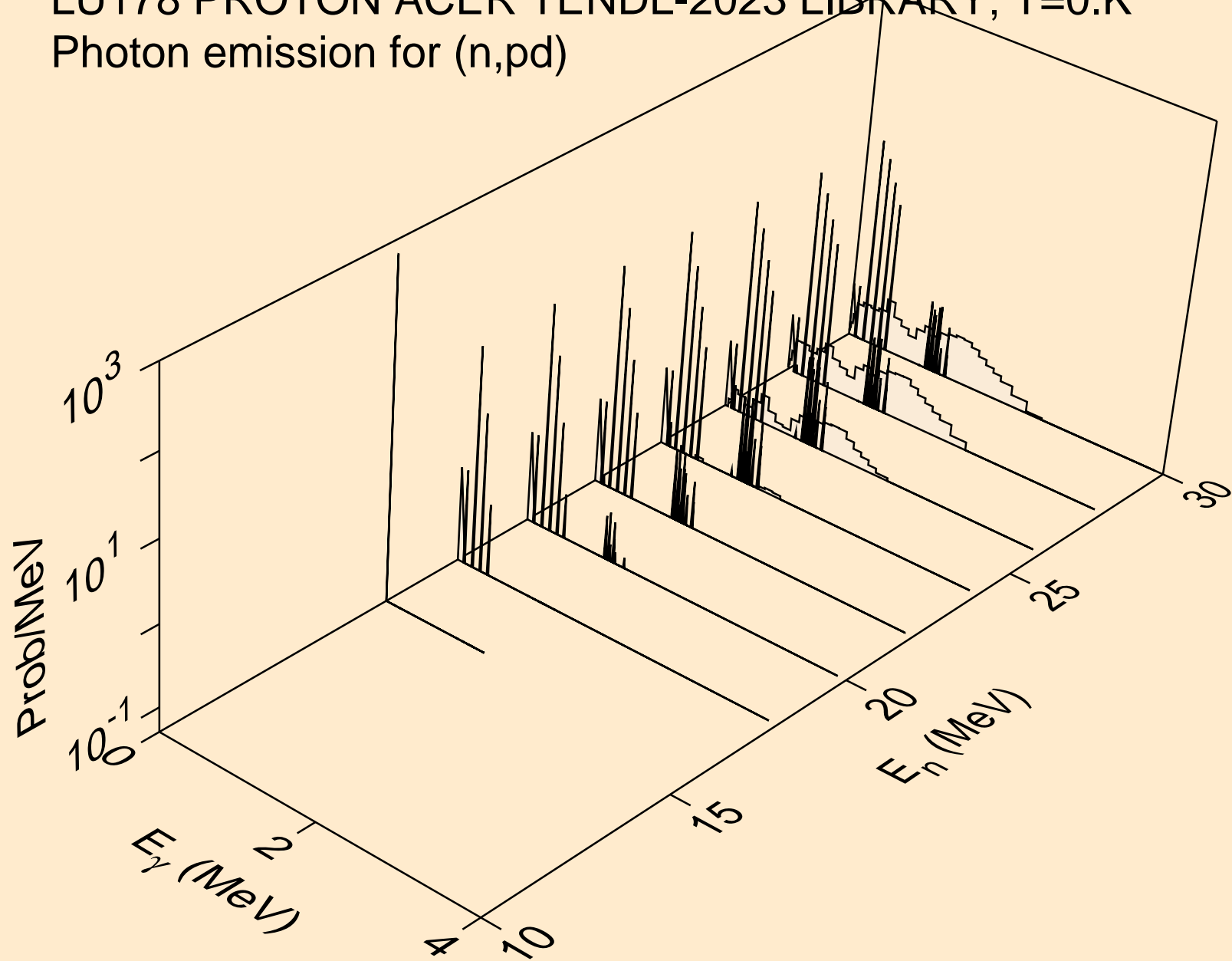
LU178 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2p)



LU178 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,pa)

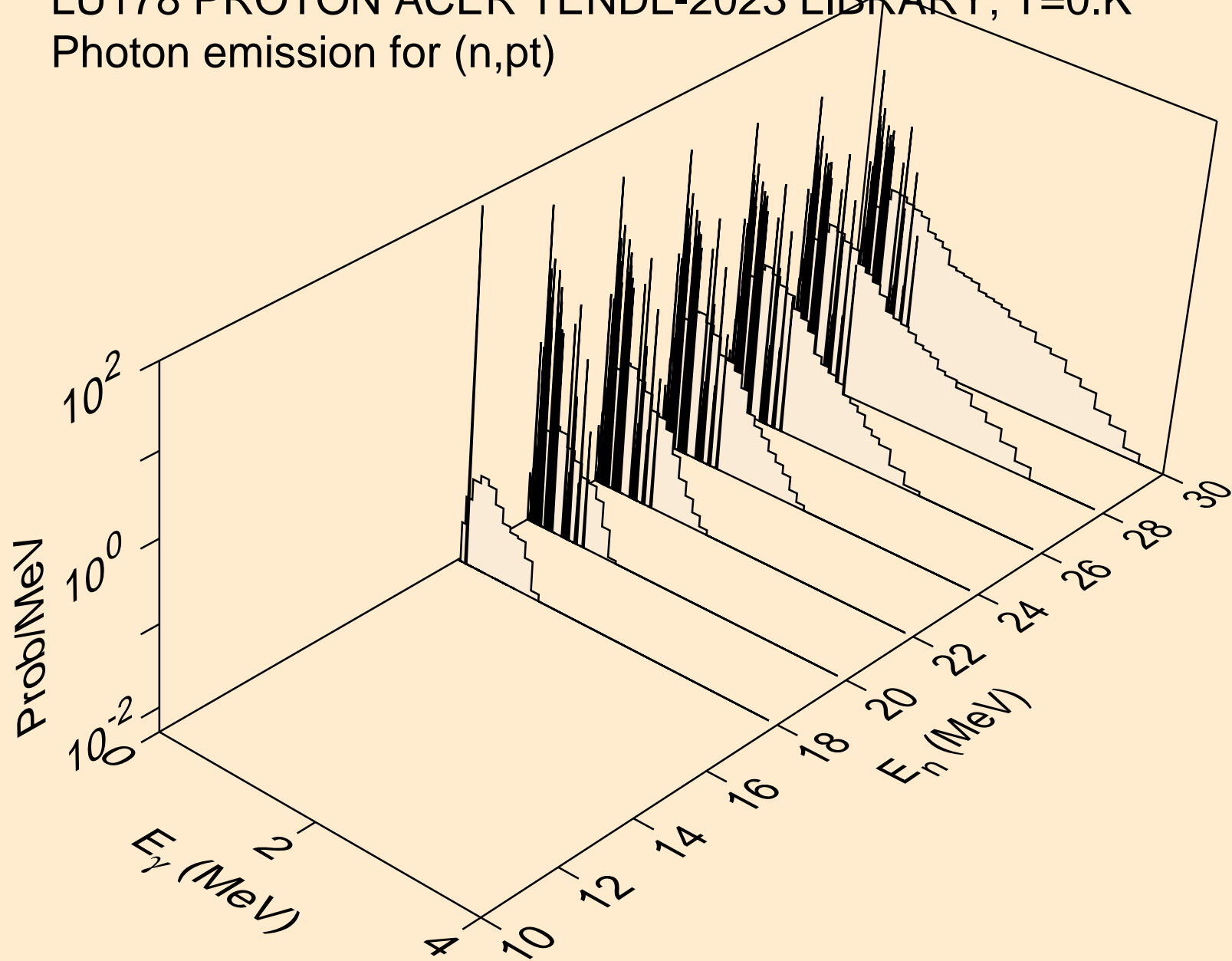


LU178 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,pd)

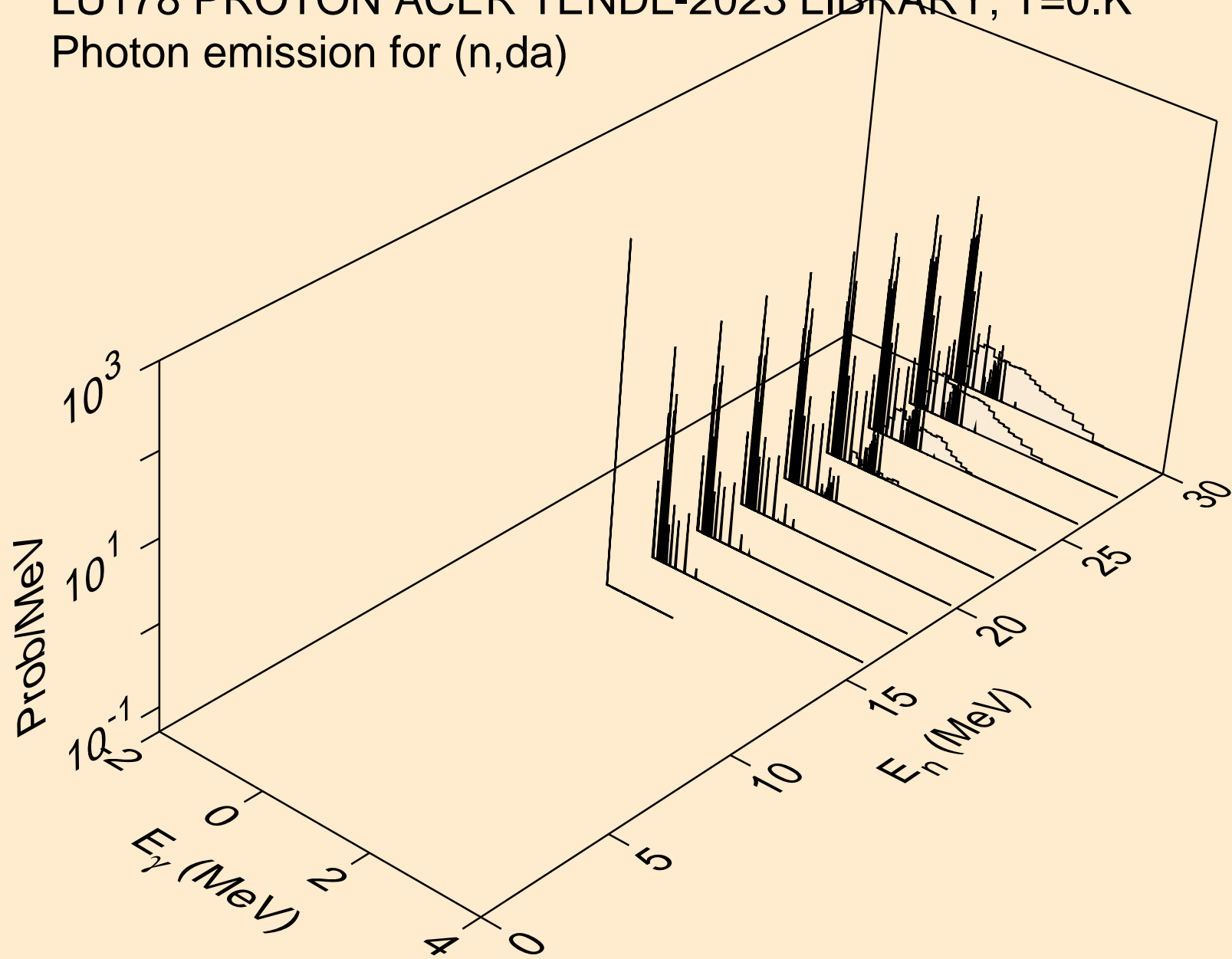




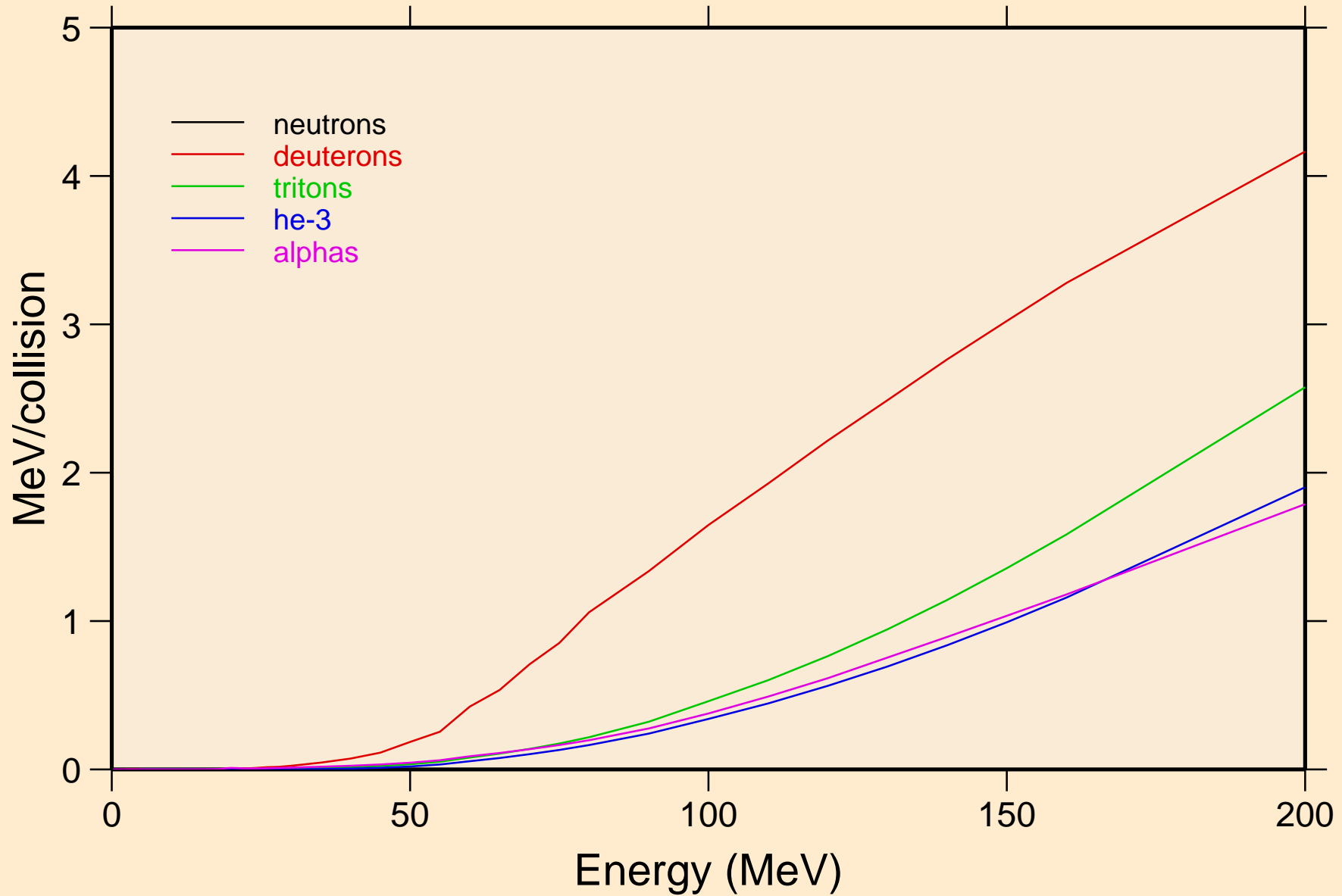
LU178 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,pt)



LU178 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,da)

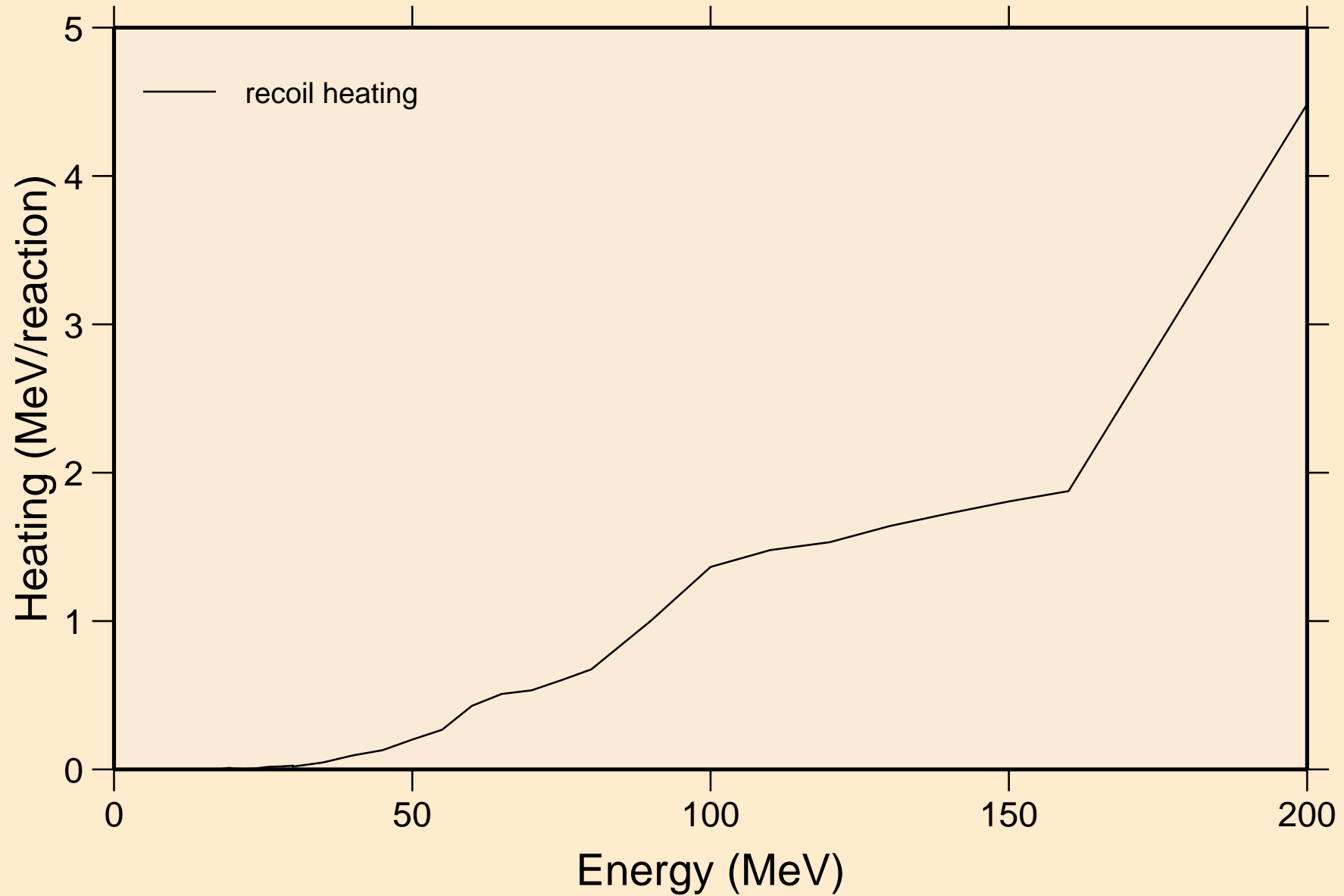


LU178 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Particle heating contributions

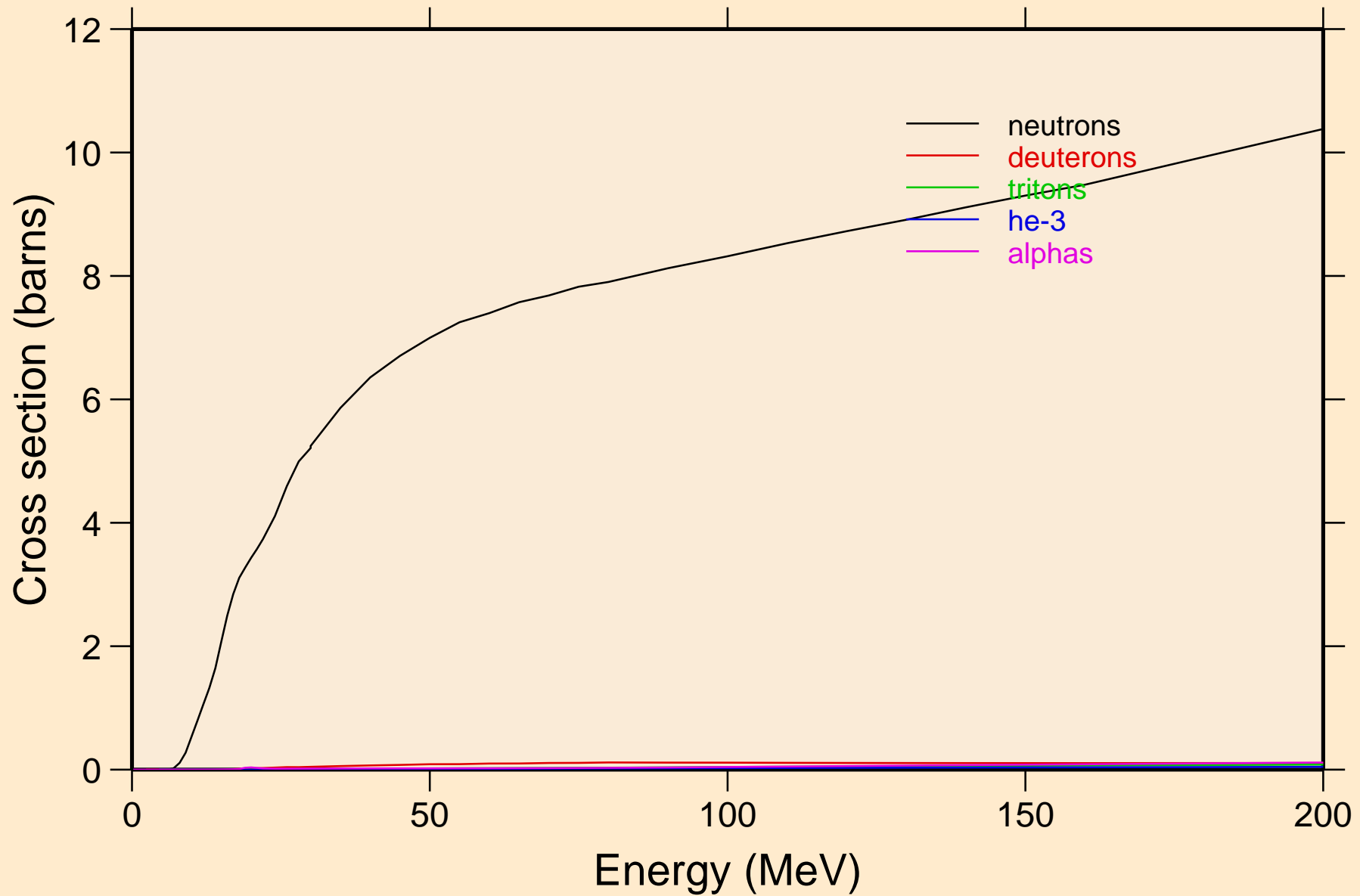


# LU178 PROTON ACER TENDL-2023 LIBRARY; T=0.K

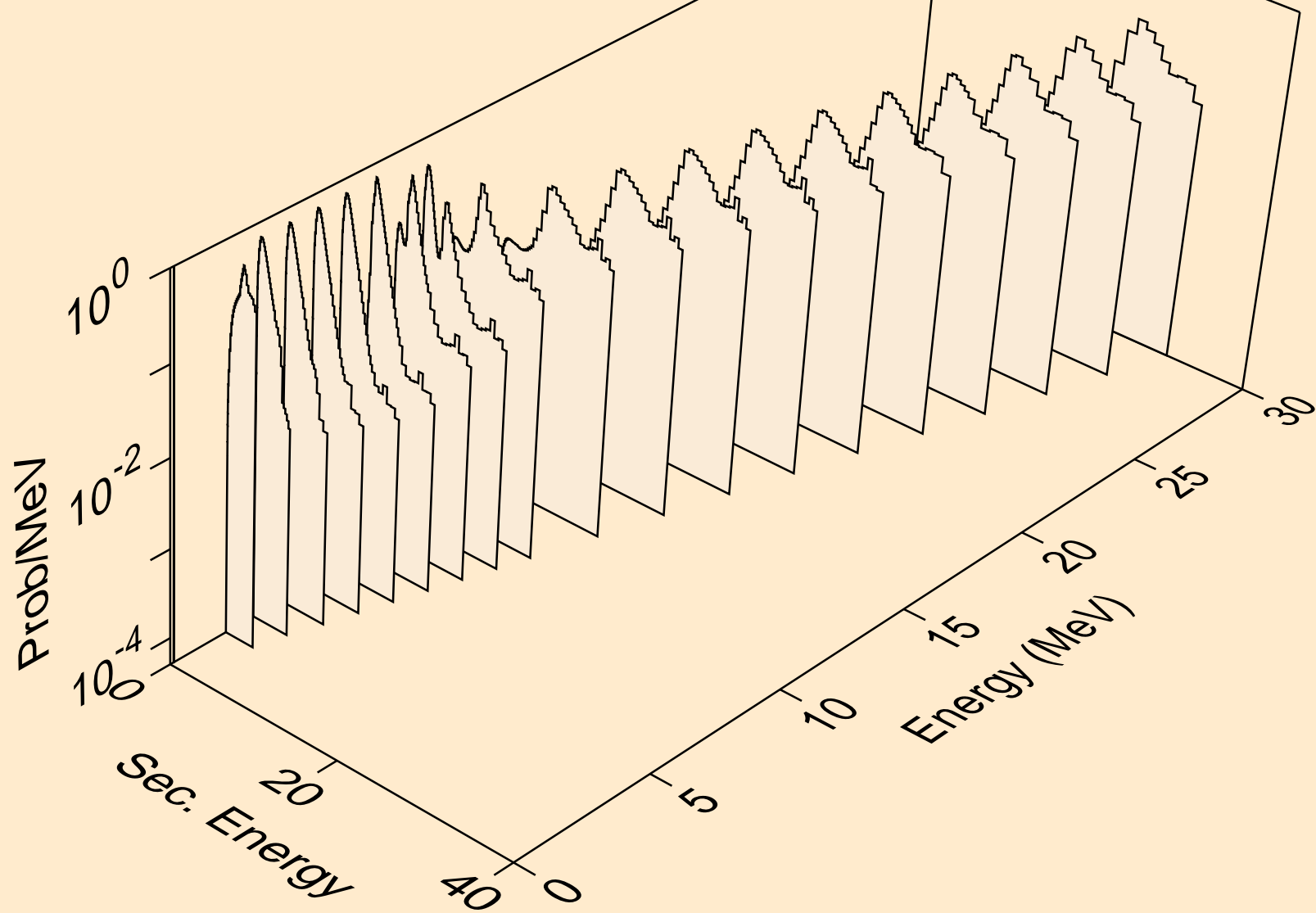
## Recoil Heating



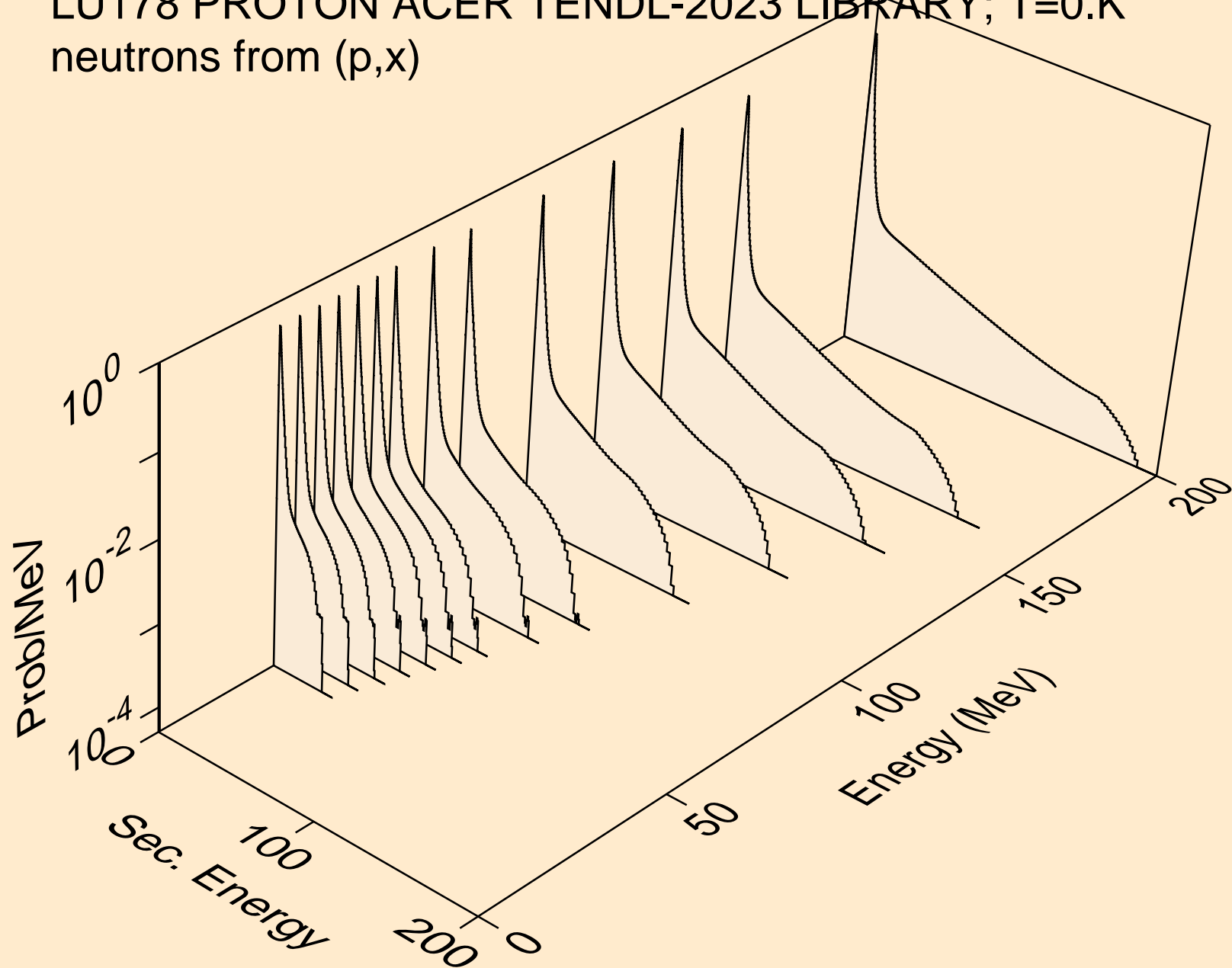
LU178 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Particle production cross sections



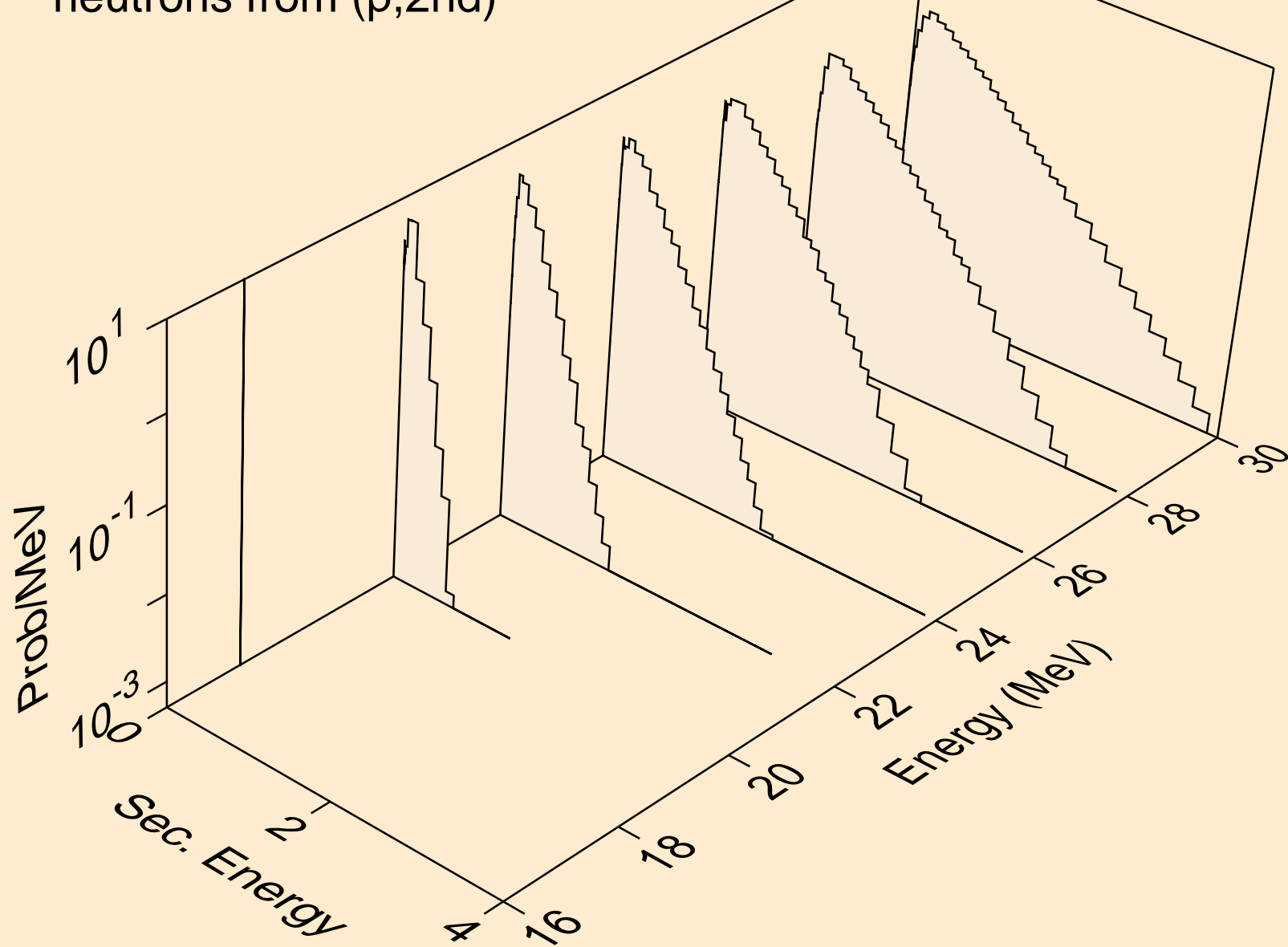
LU178 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (p,n)



LU178 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (p,x)

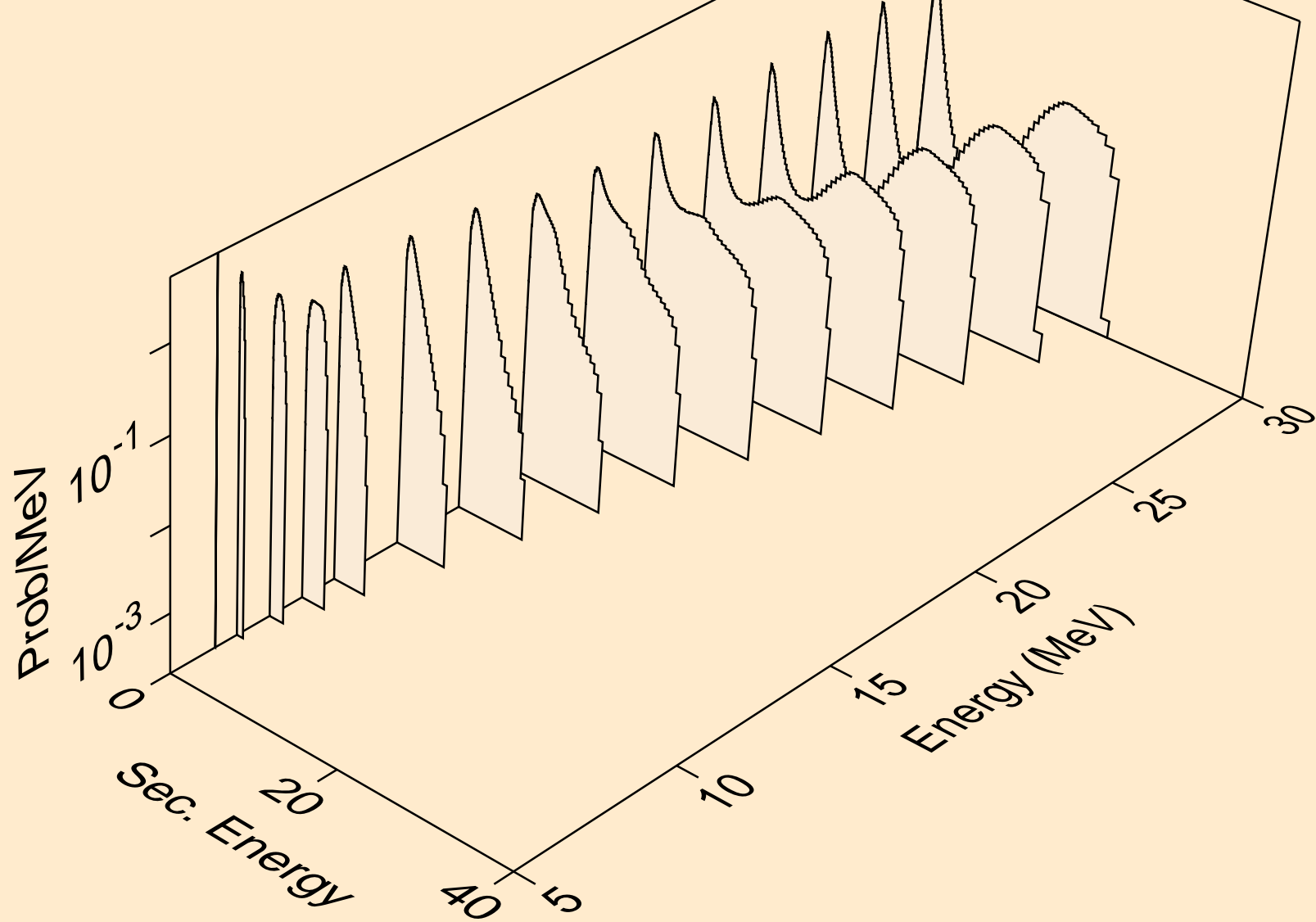


LU178 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (p,2nd)

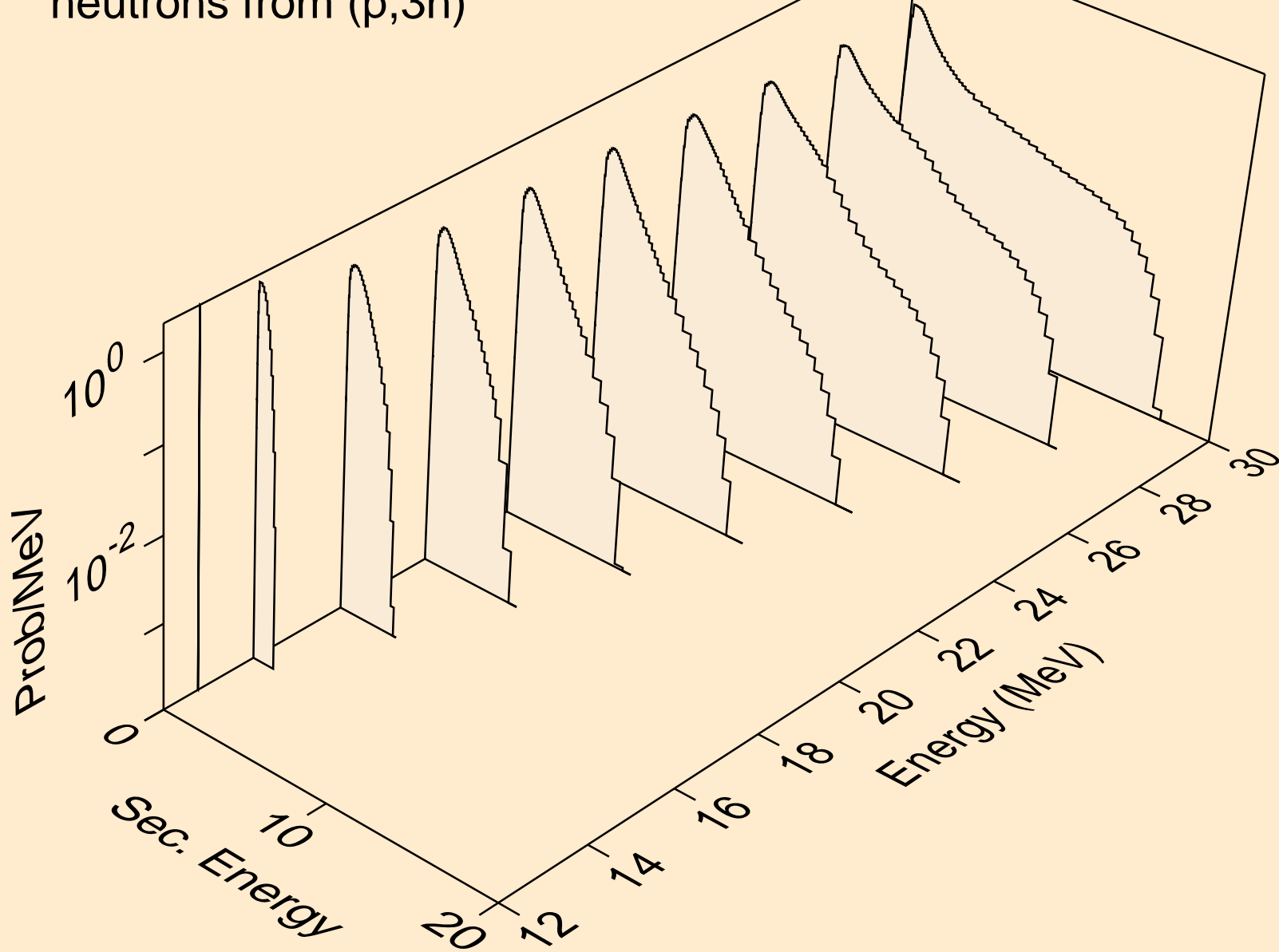




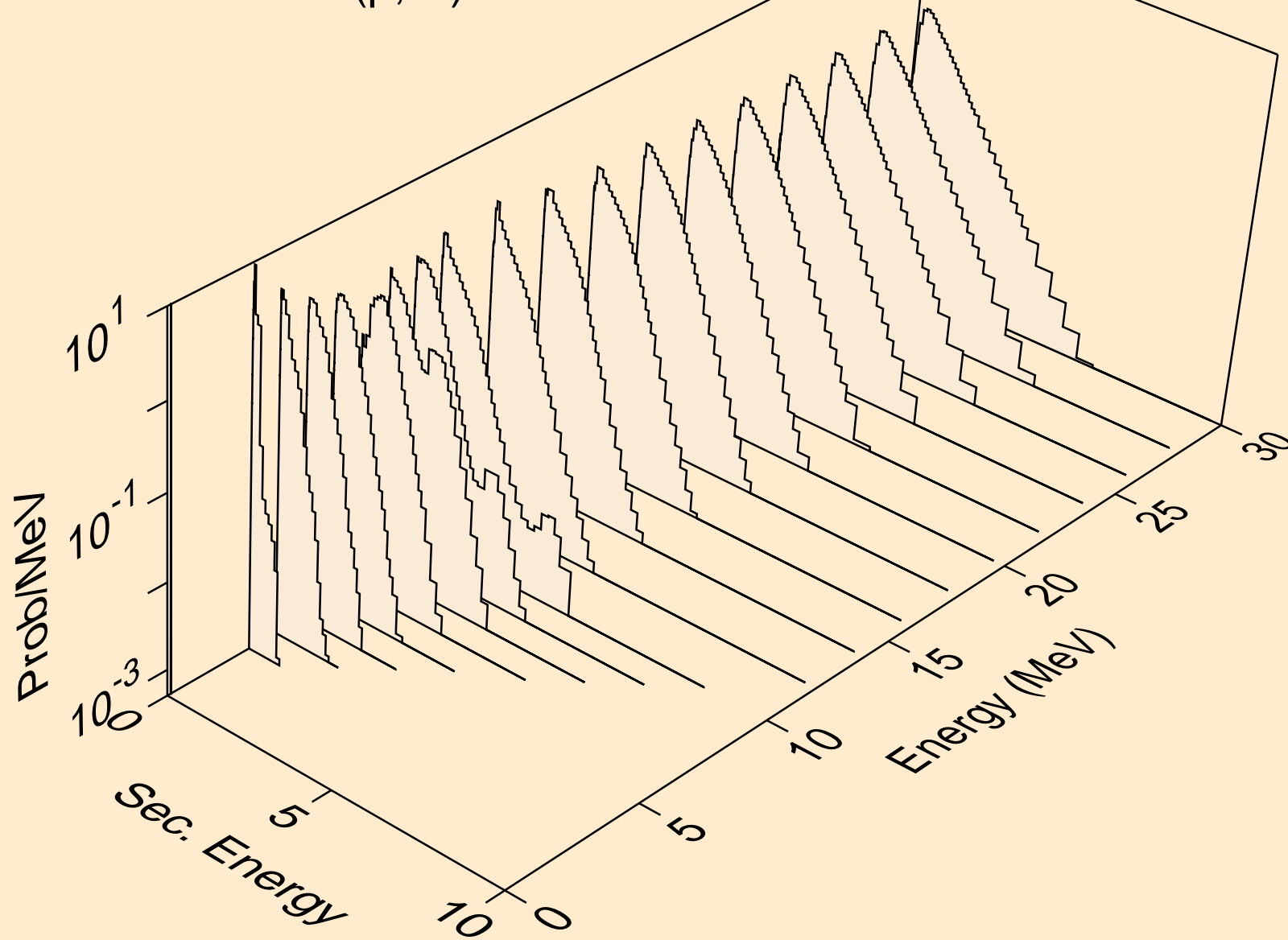
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neutrons from (p,2n)



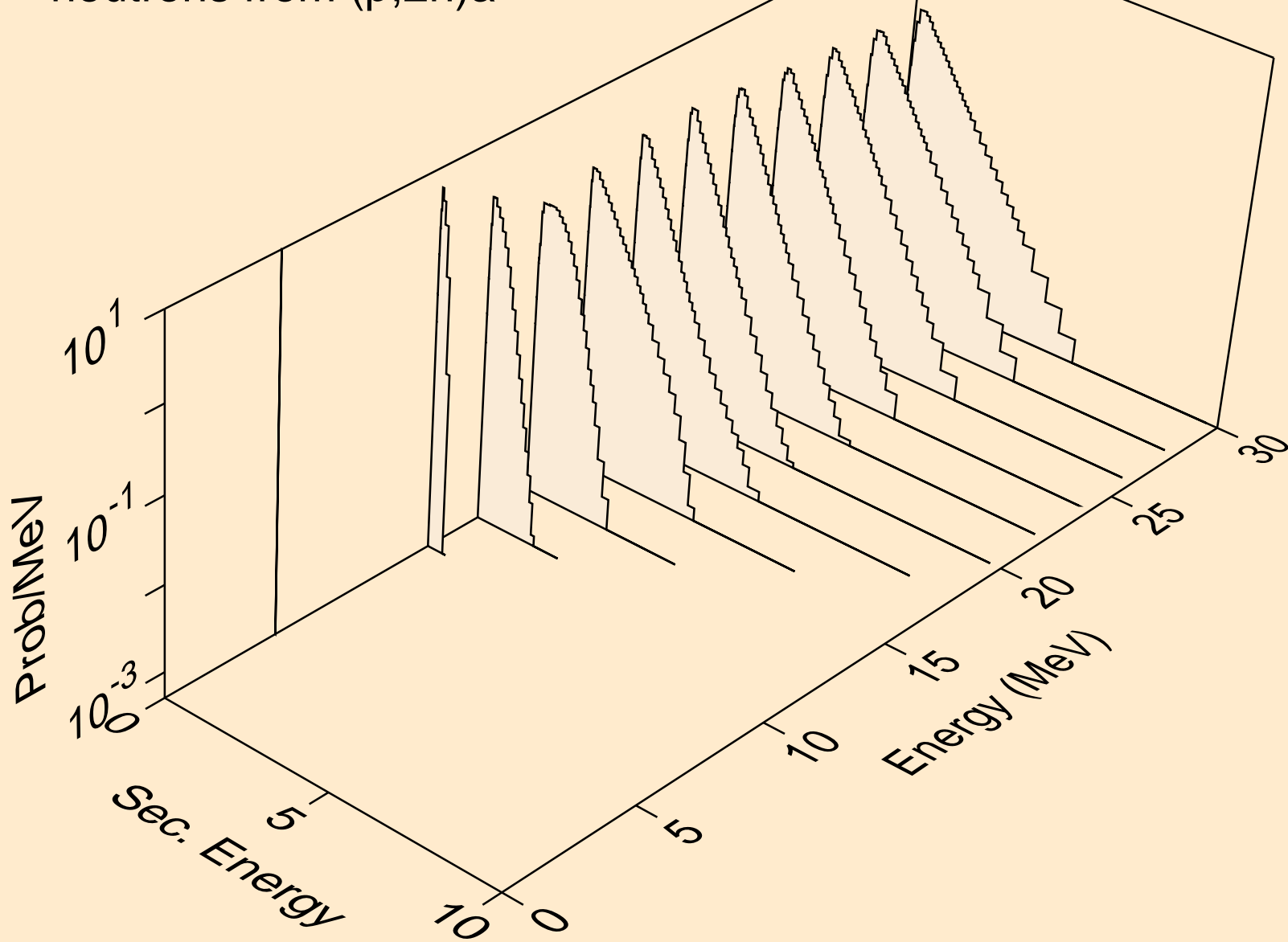
LU178 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (p,3n)



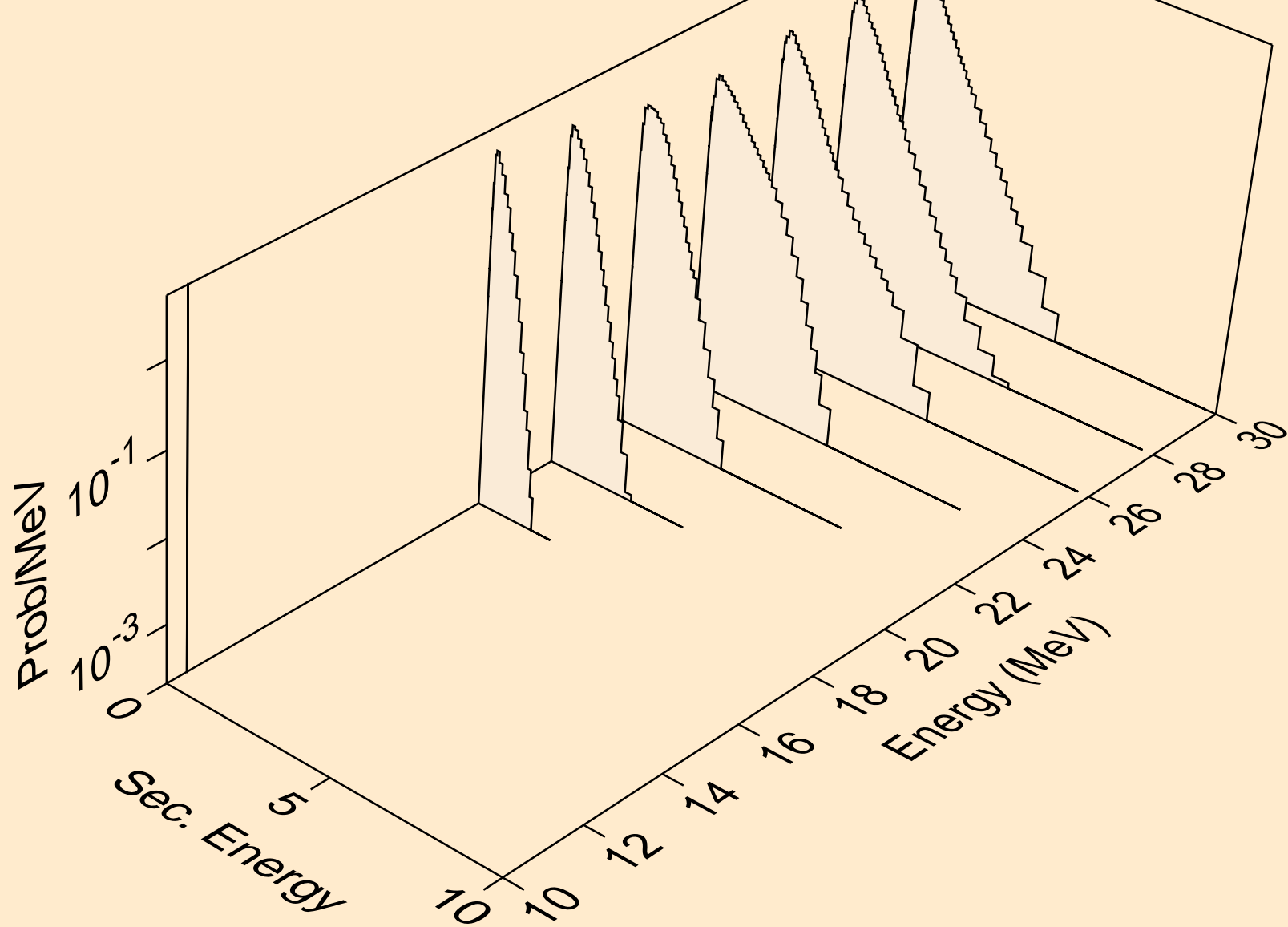
LU178 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (p,n\*)a



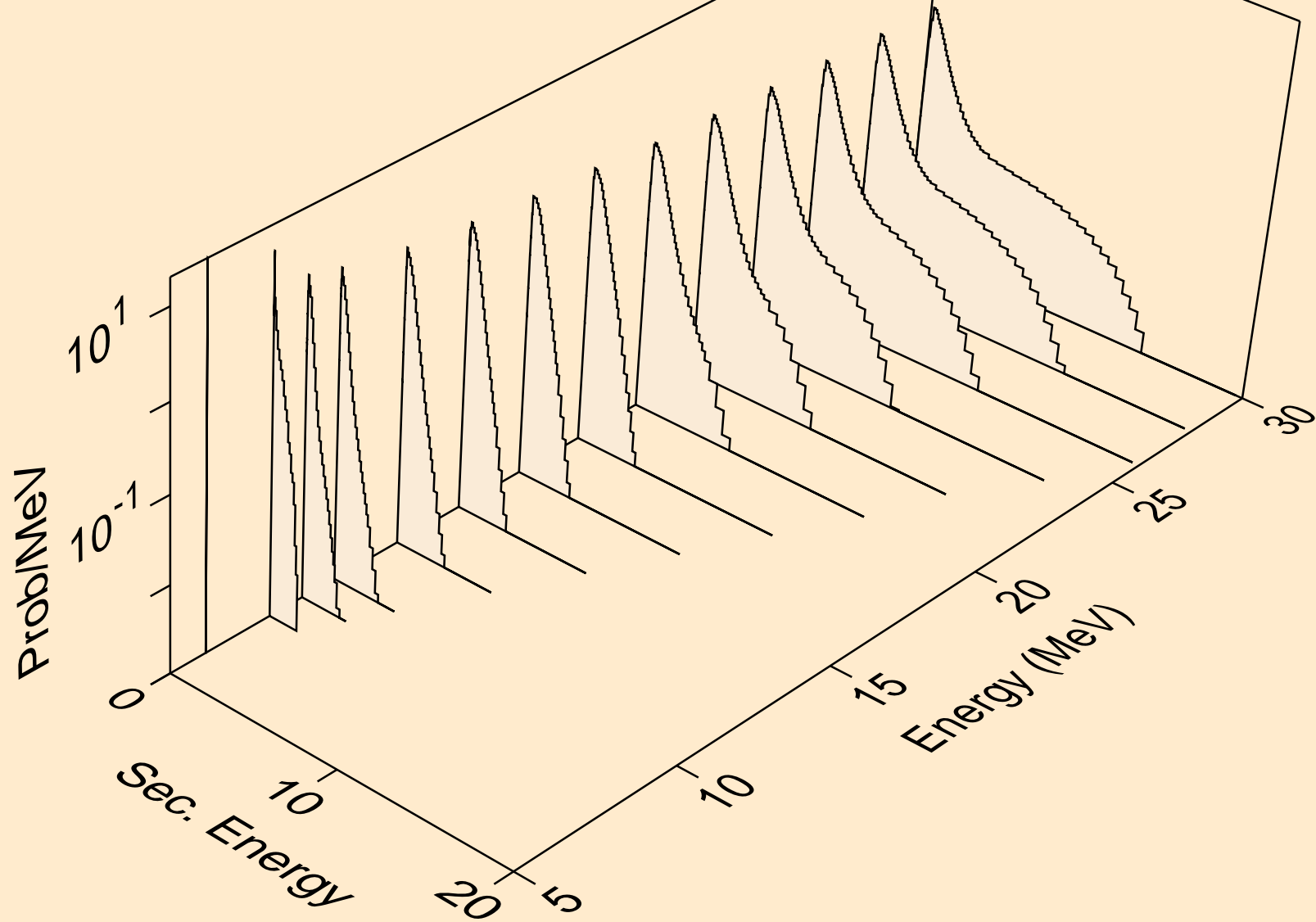
LU178 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (p,2n)a



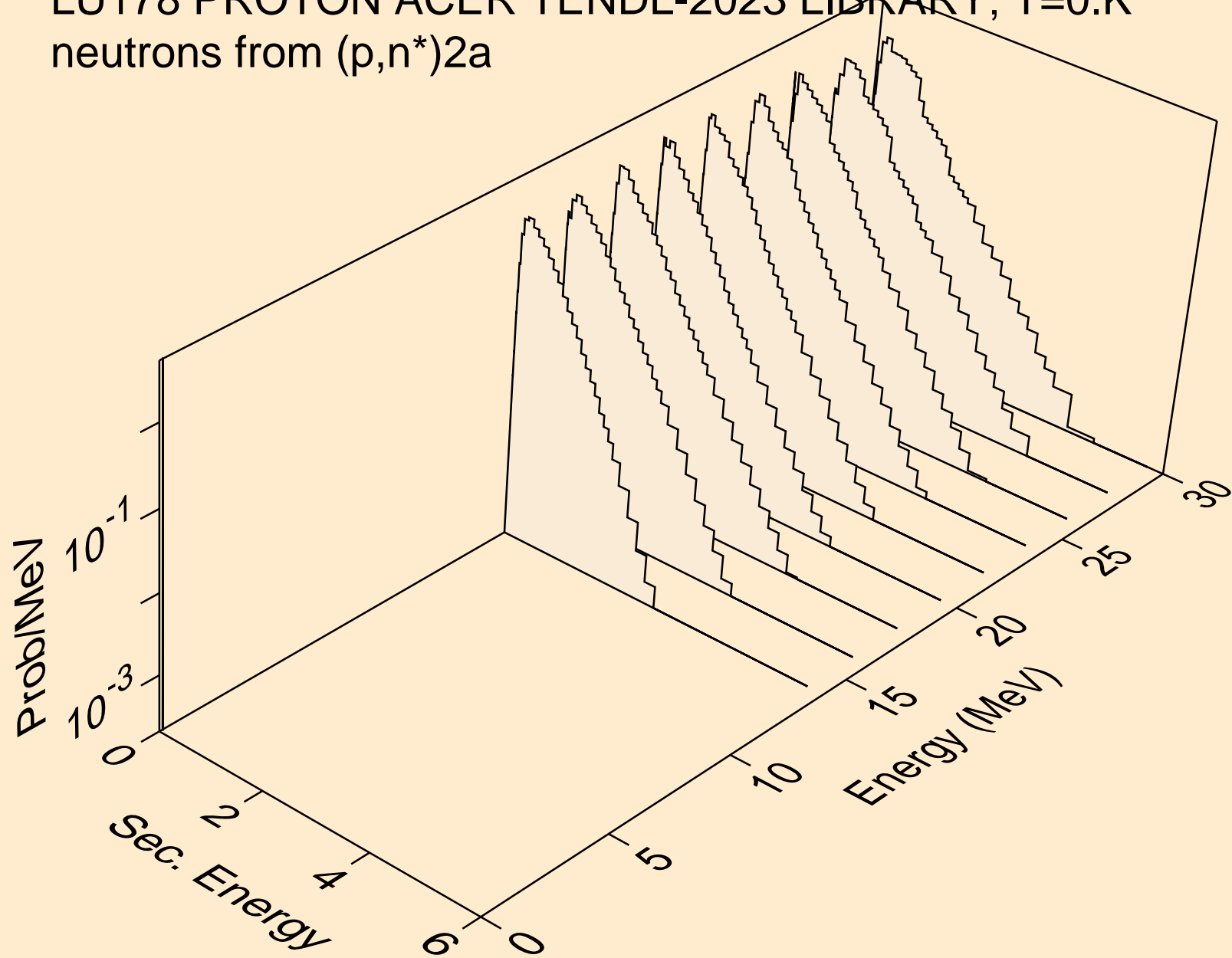
LU178 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (p,3n)a



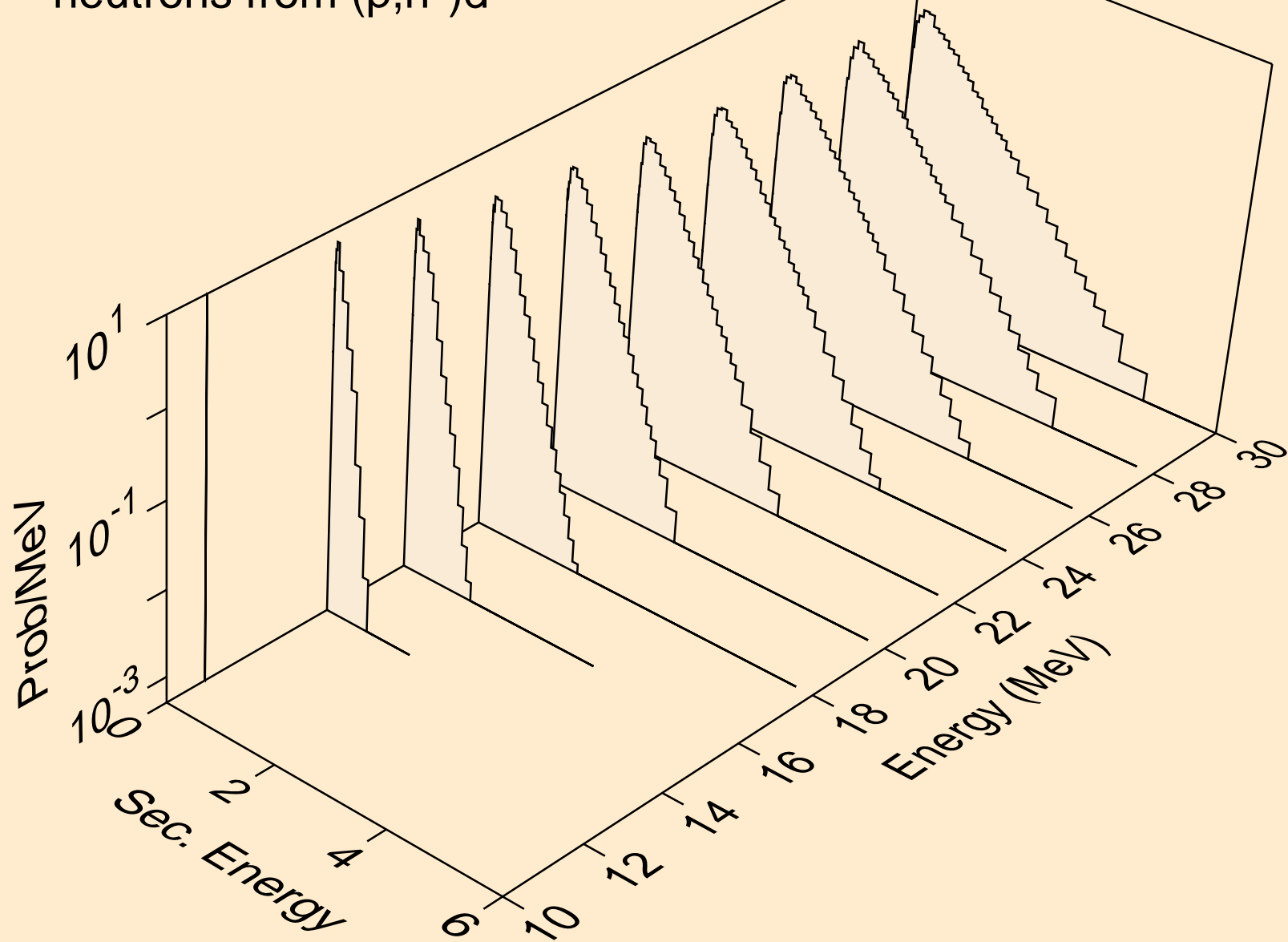
LU178 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (p,n\*)p



LU178 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (p,n\*)2a

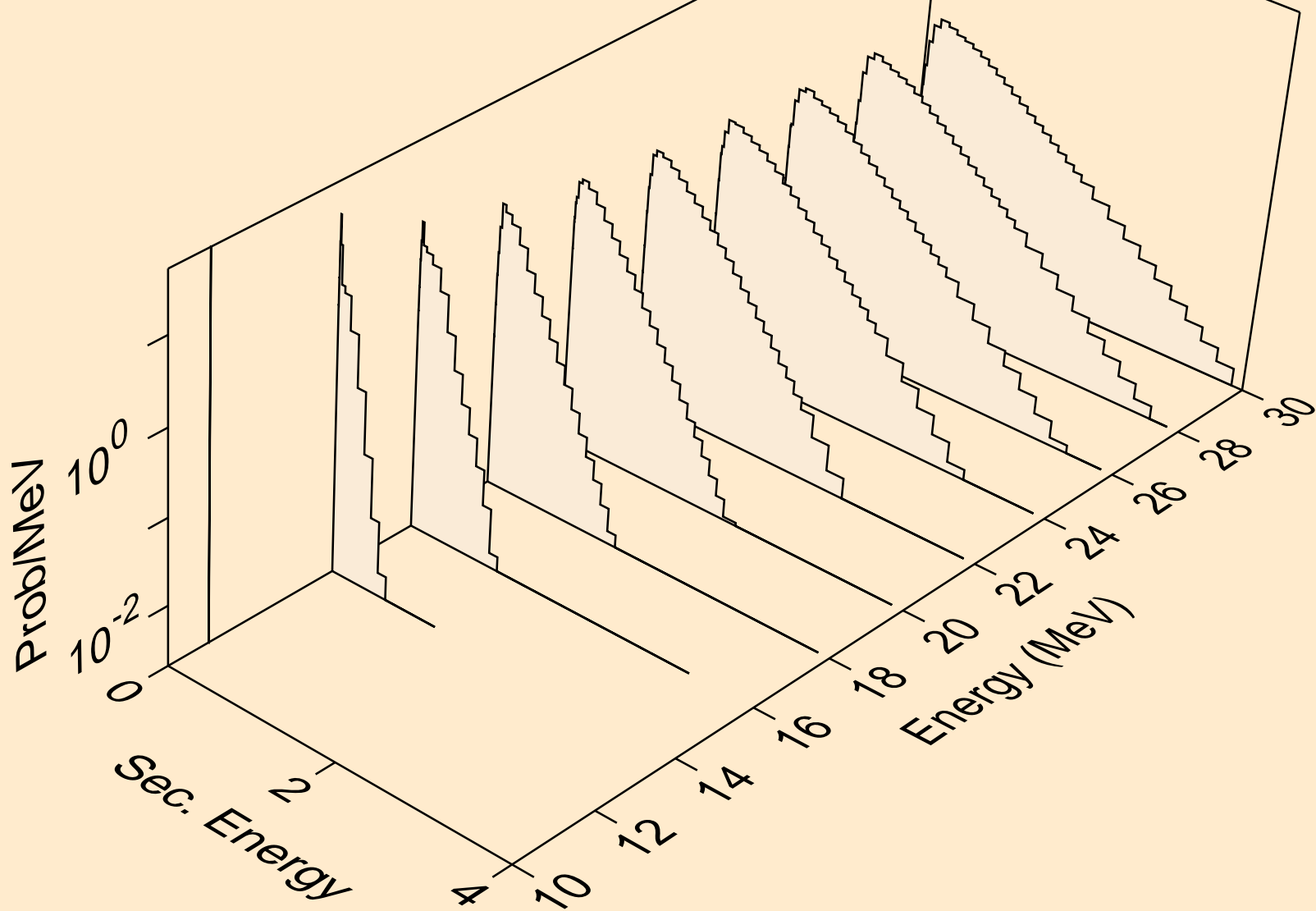


LU178 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (p,n\*)d

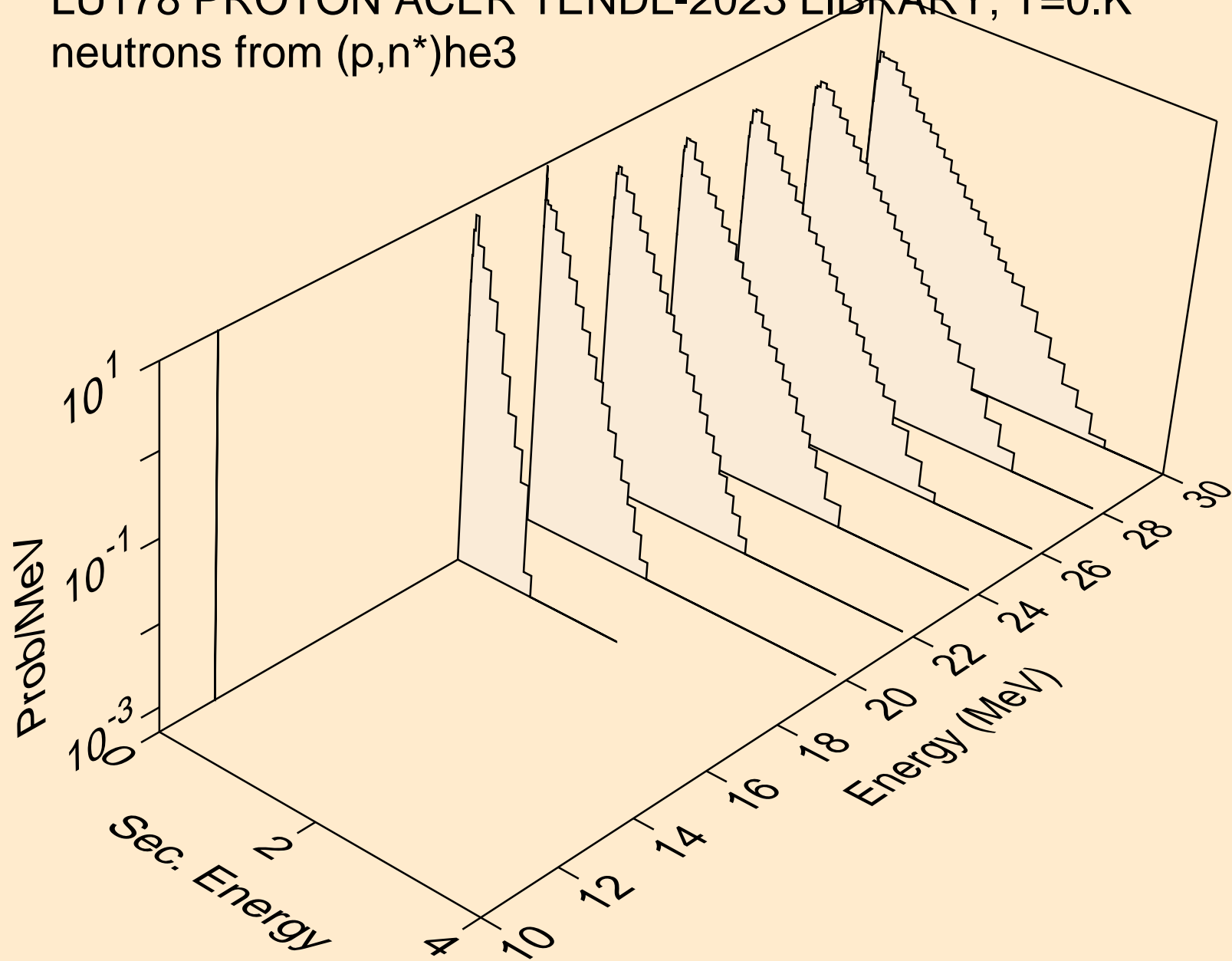




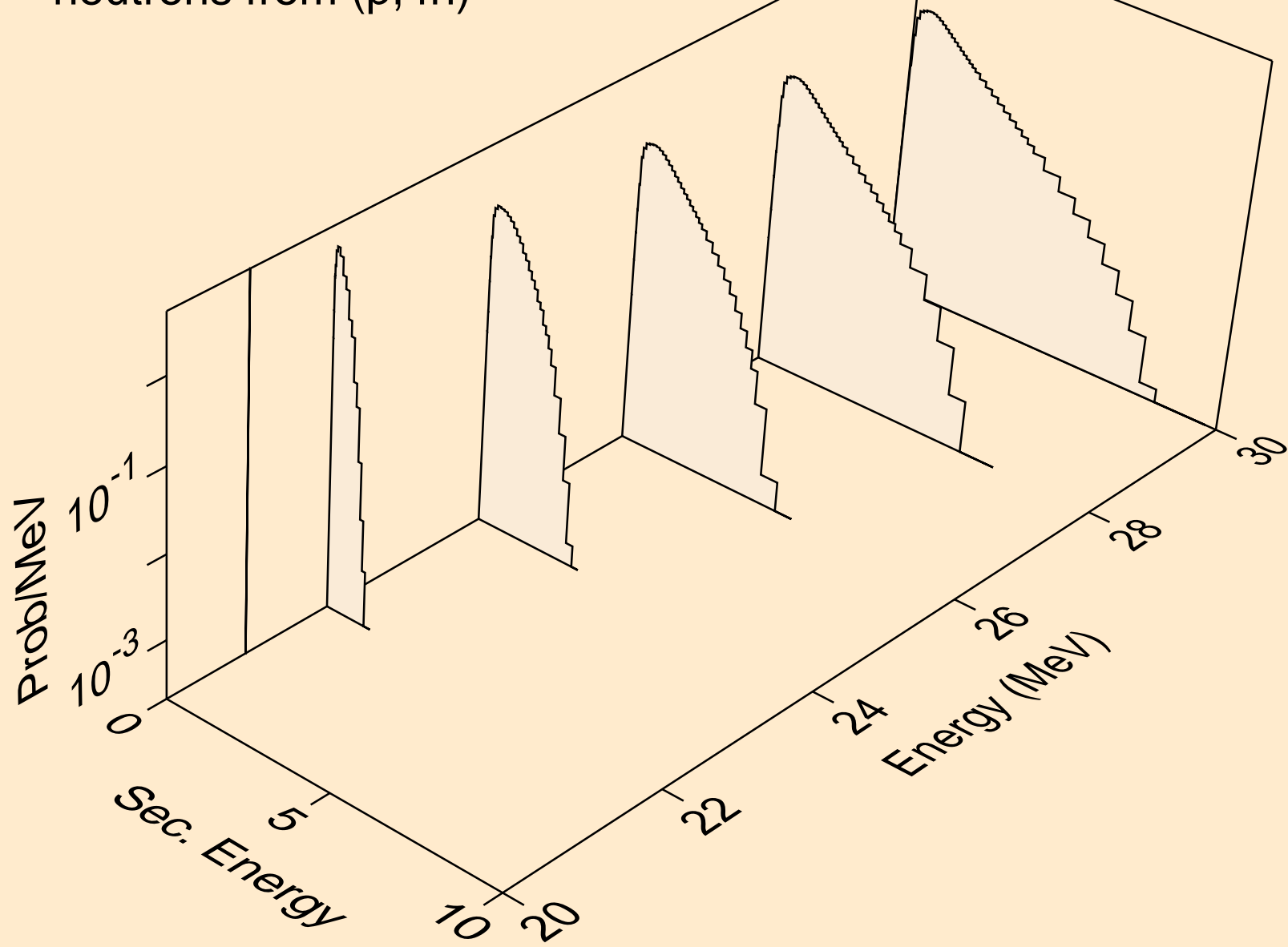
LU178 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (p,n\*)t



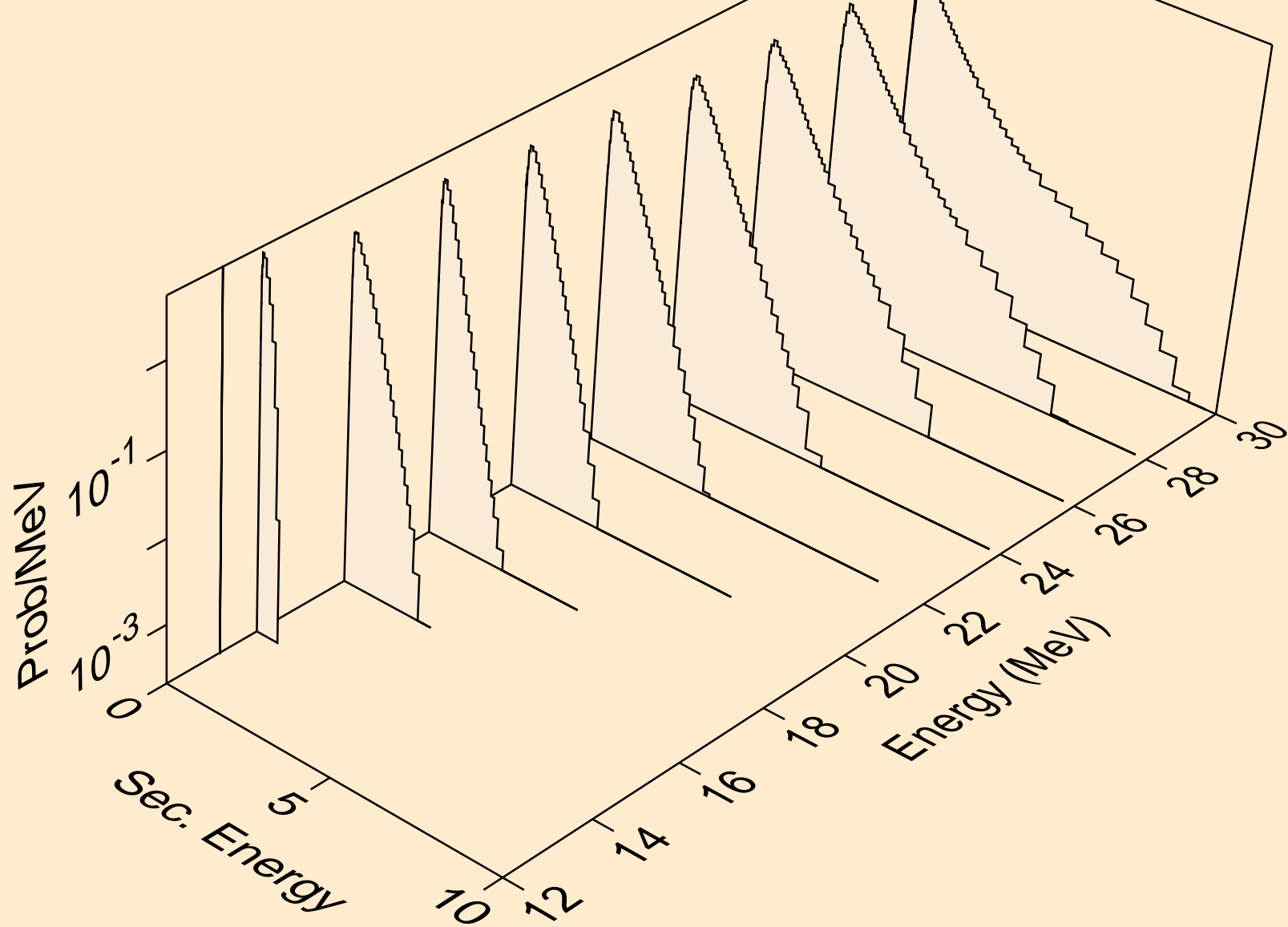
LU178 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (p,n\*)he3



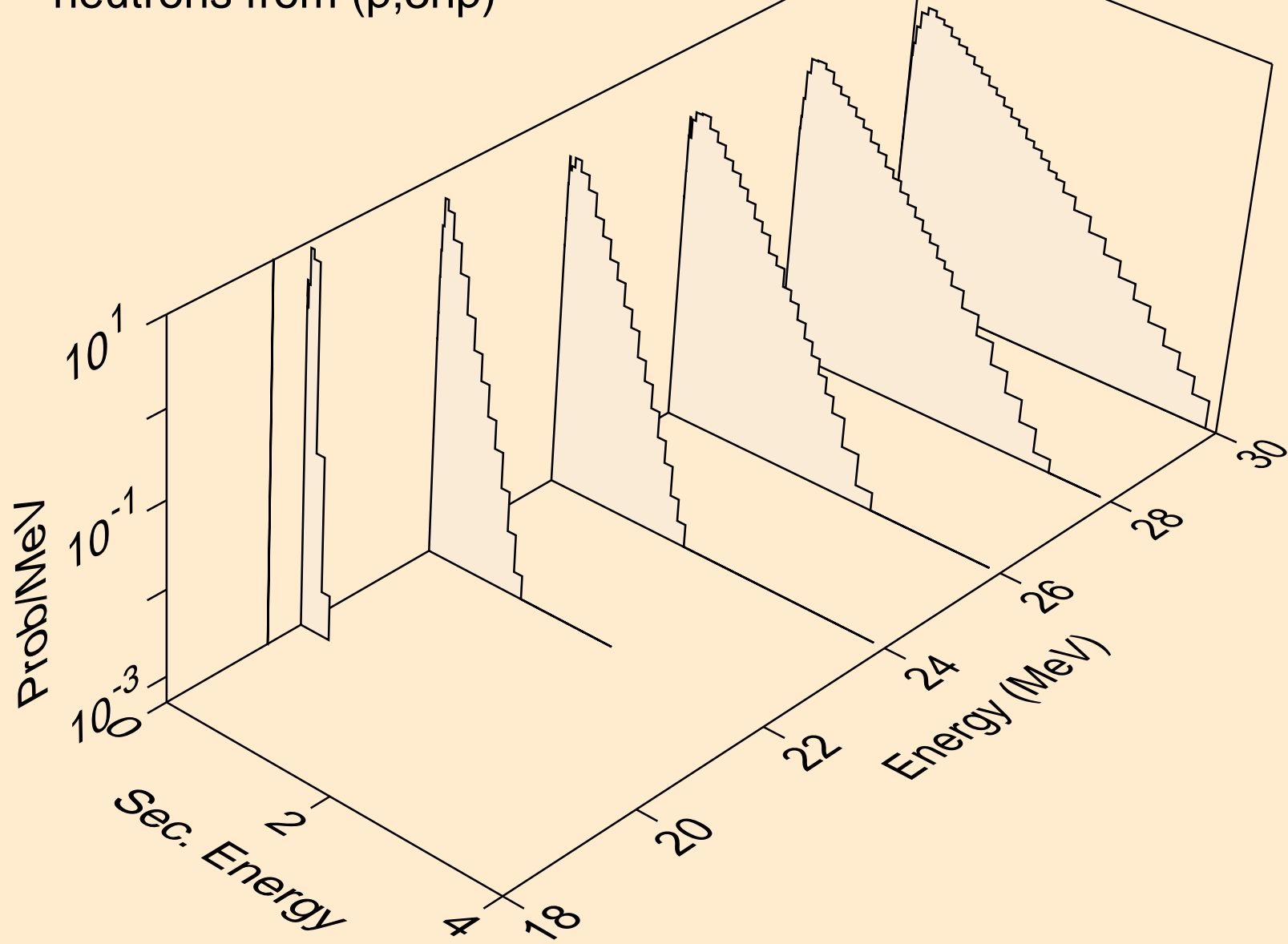
LU178 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (p,4n)



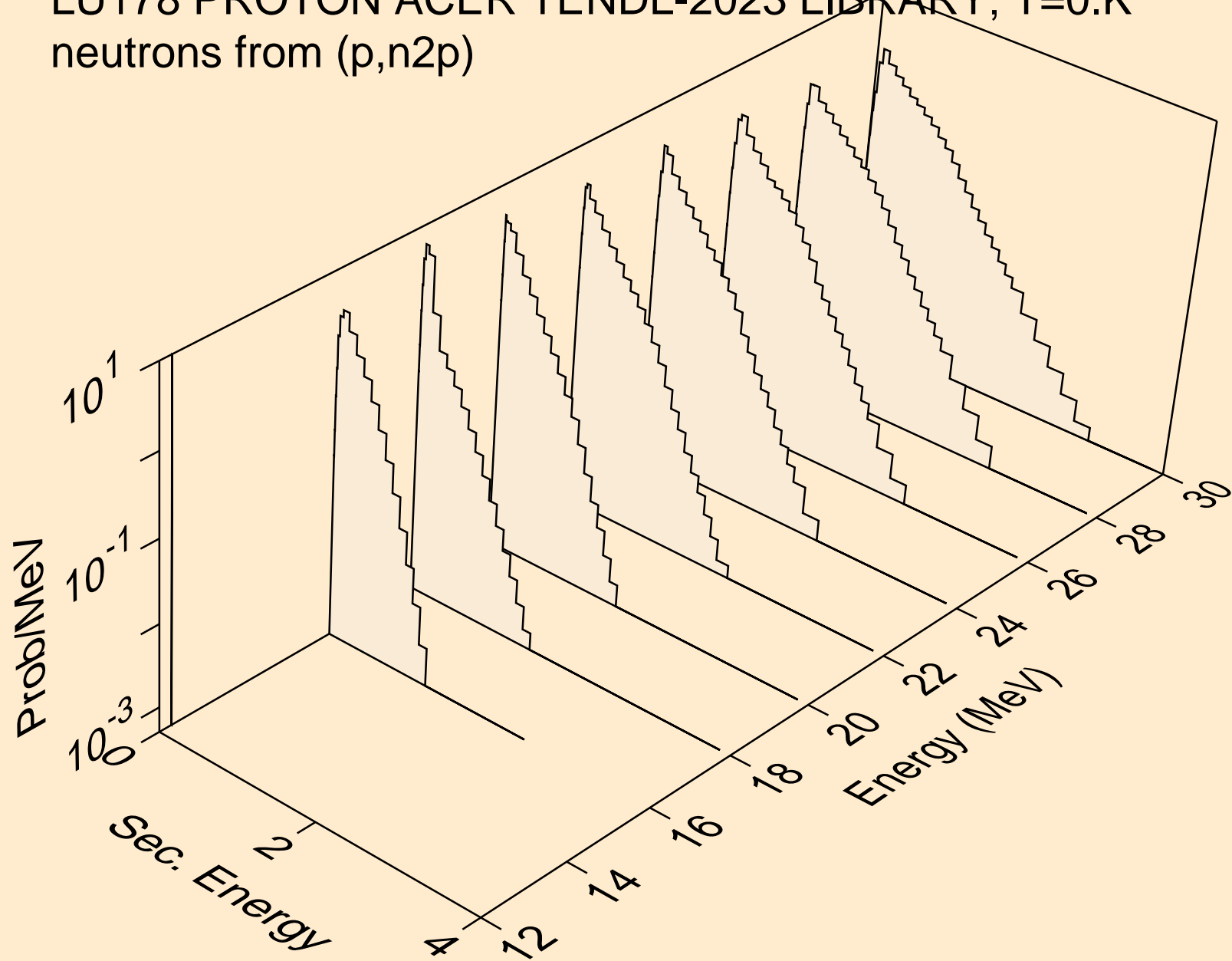
LU178 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (p,2np)



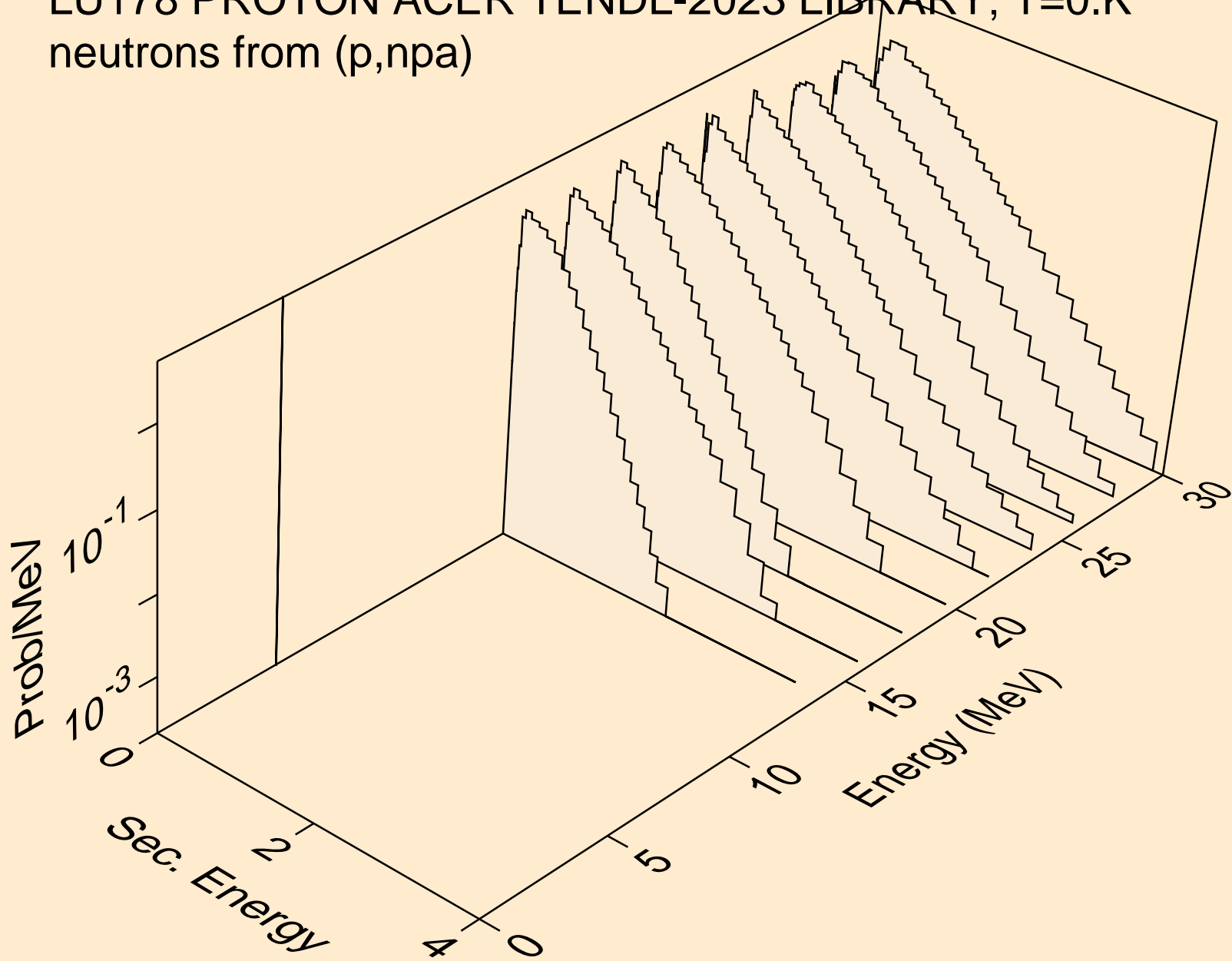
LU178 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (p,3np)



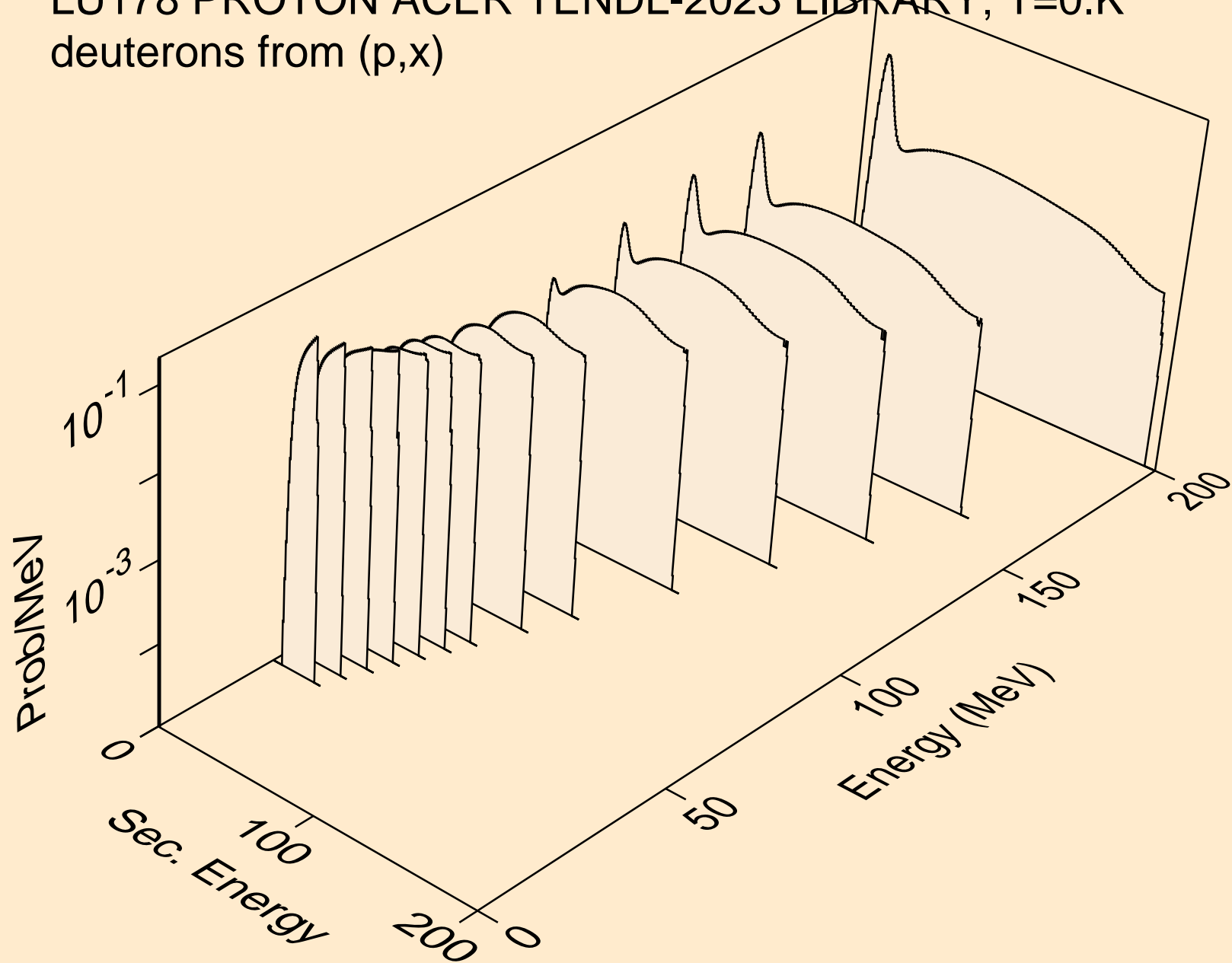
LU178 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (p,n2p)



LU178 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (p,npa)

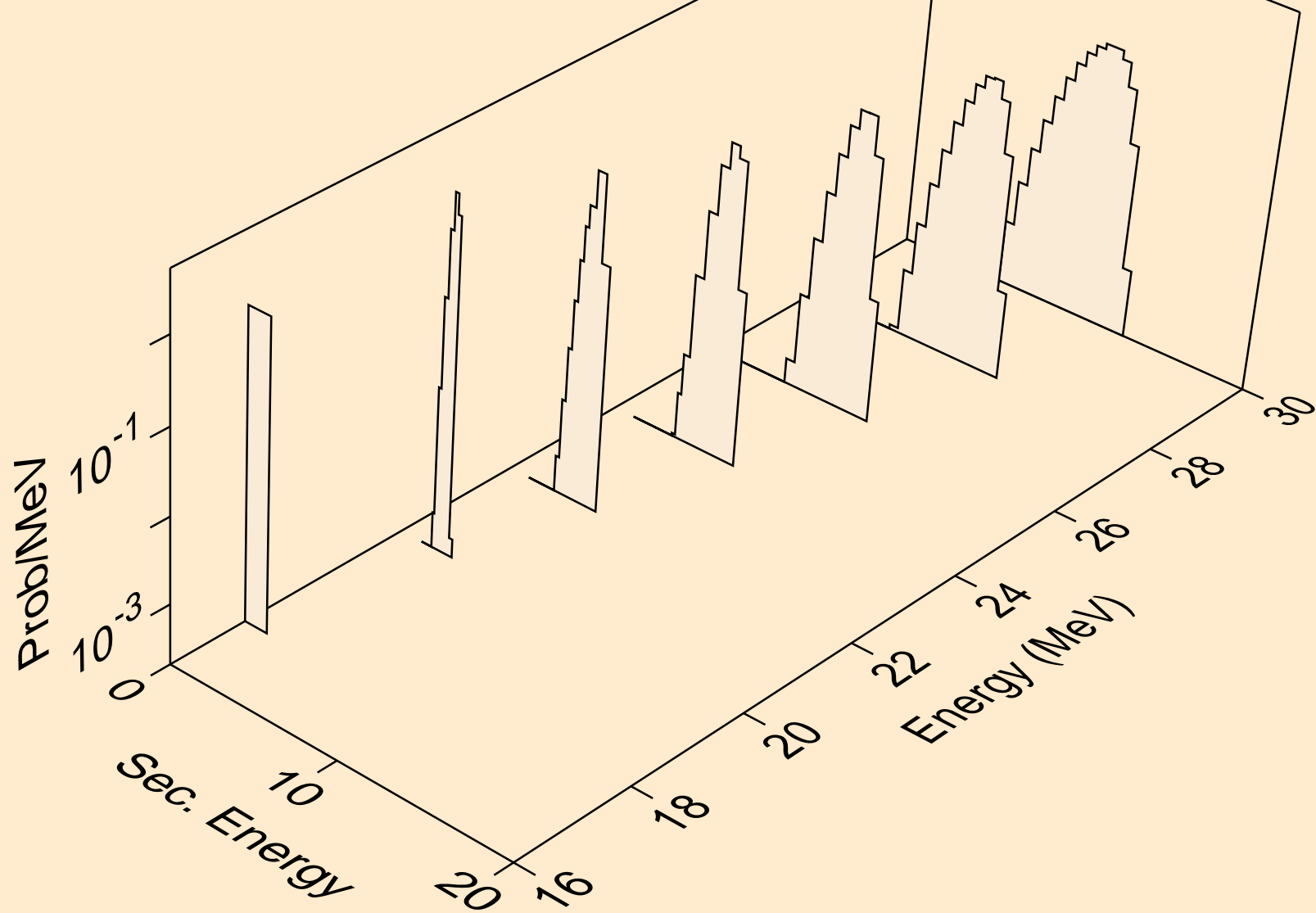


LU178 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
deuterons from (p,x)

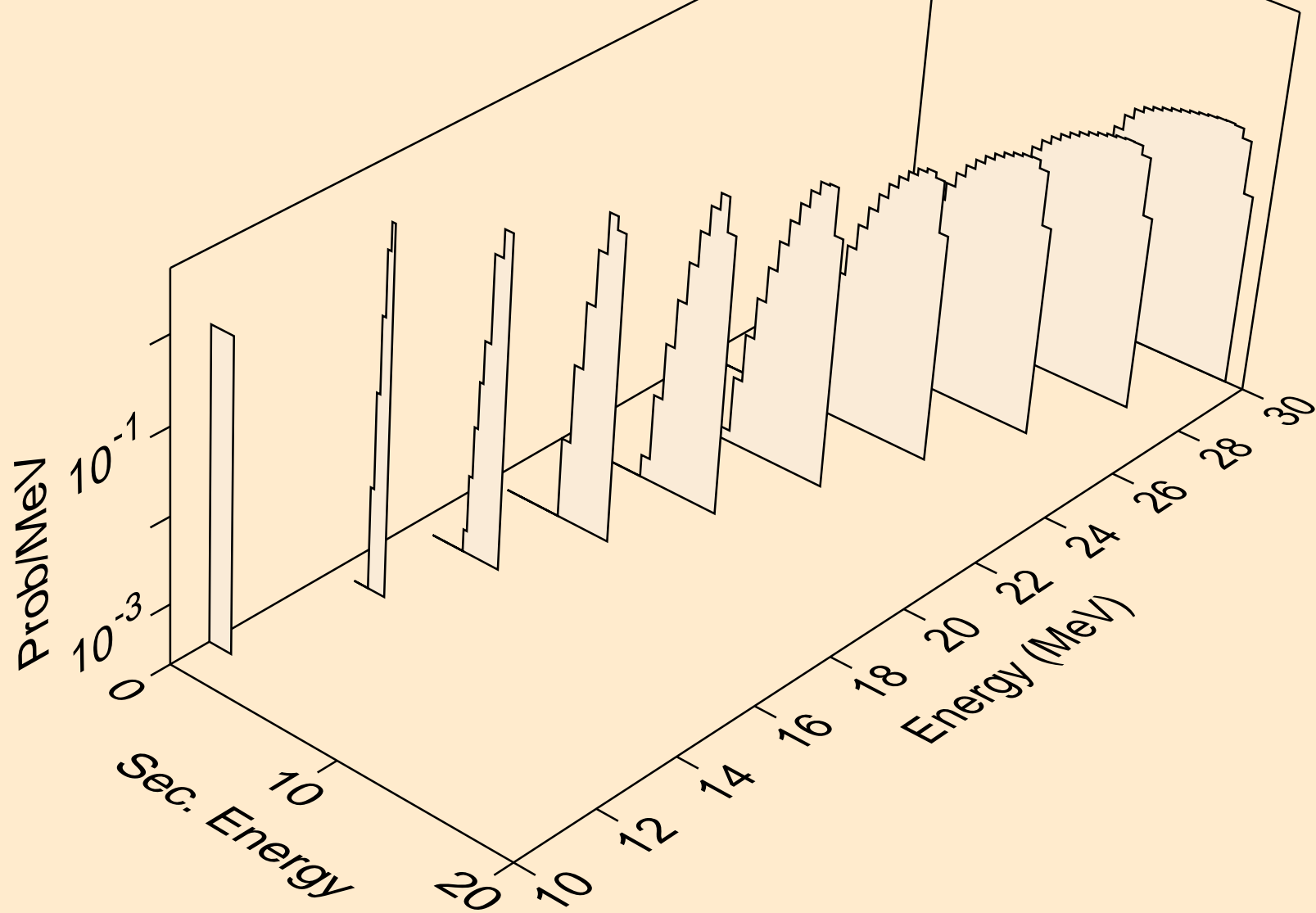




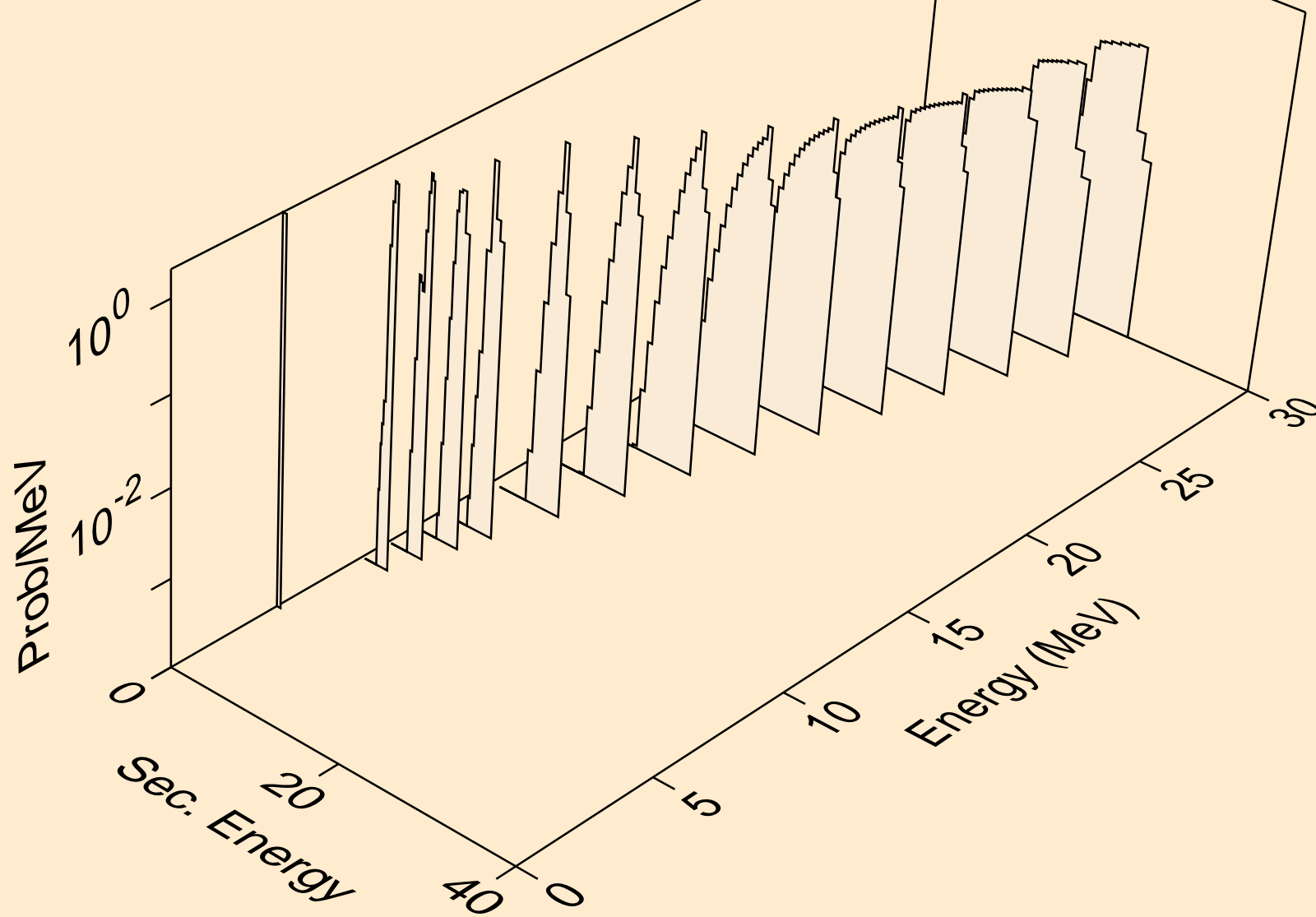
LU178 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
deuterons from (p,2nd)



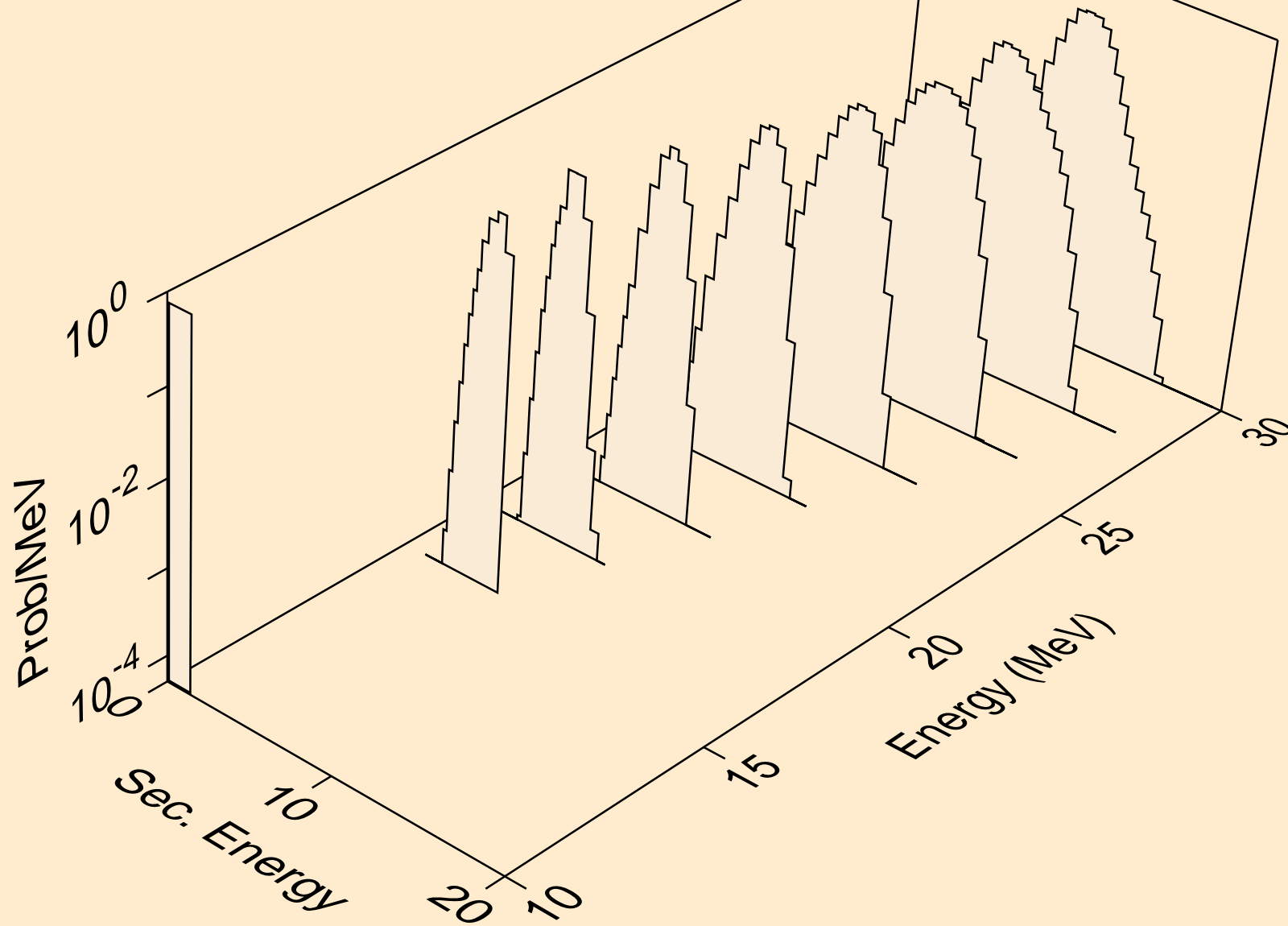
LU178 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
deuterons from (p,n\*)d



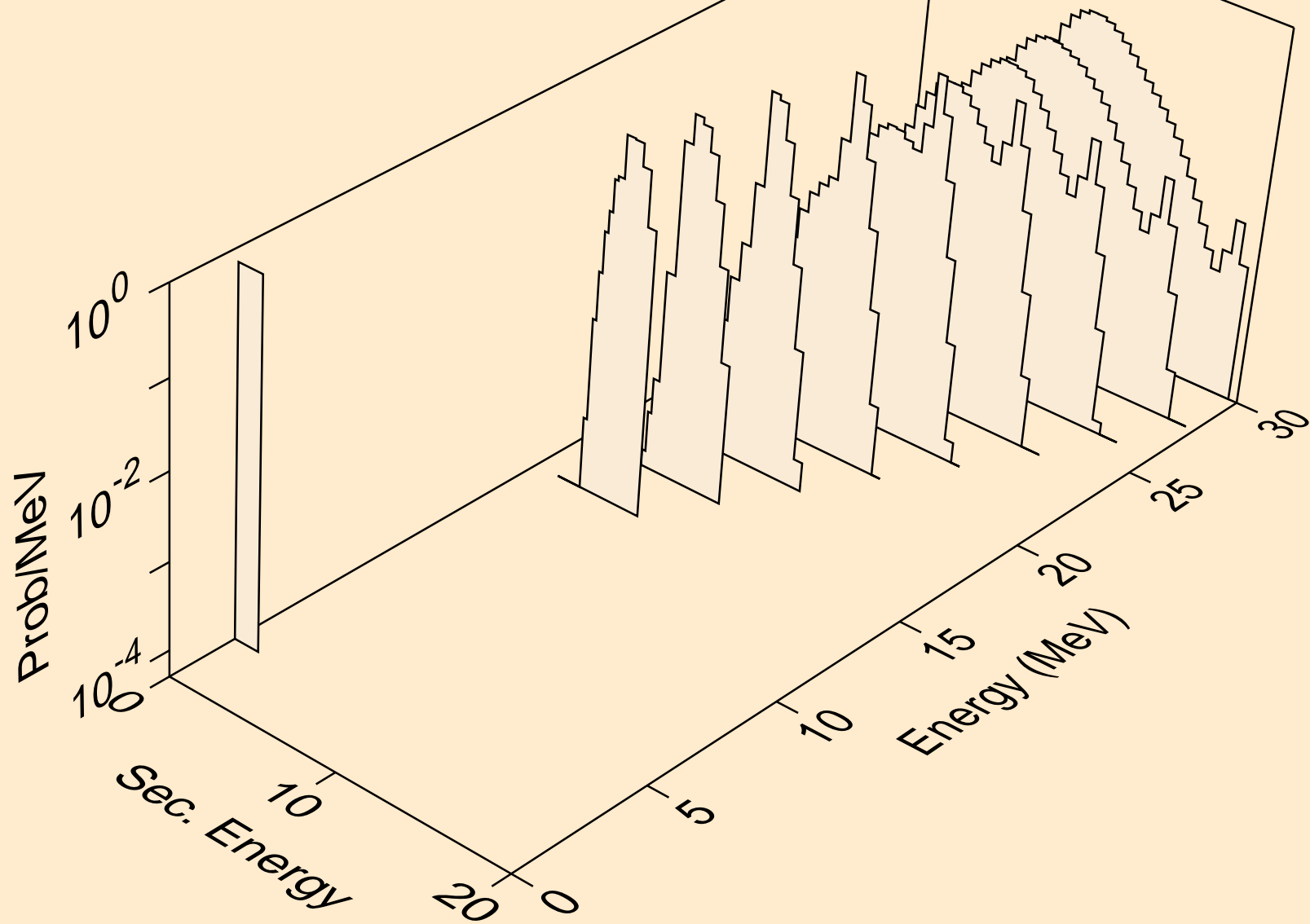
LU178 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
deuterons from (p,d)



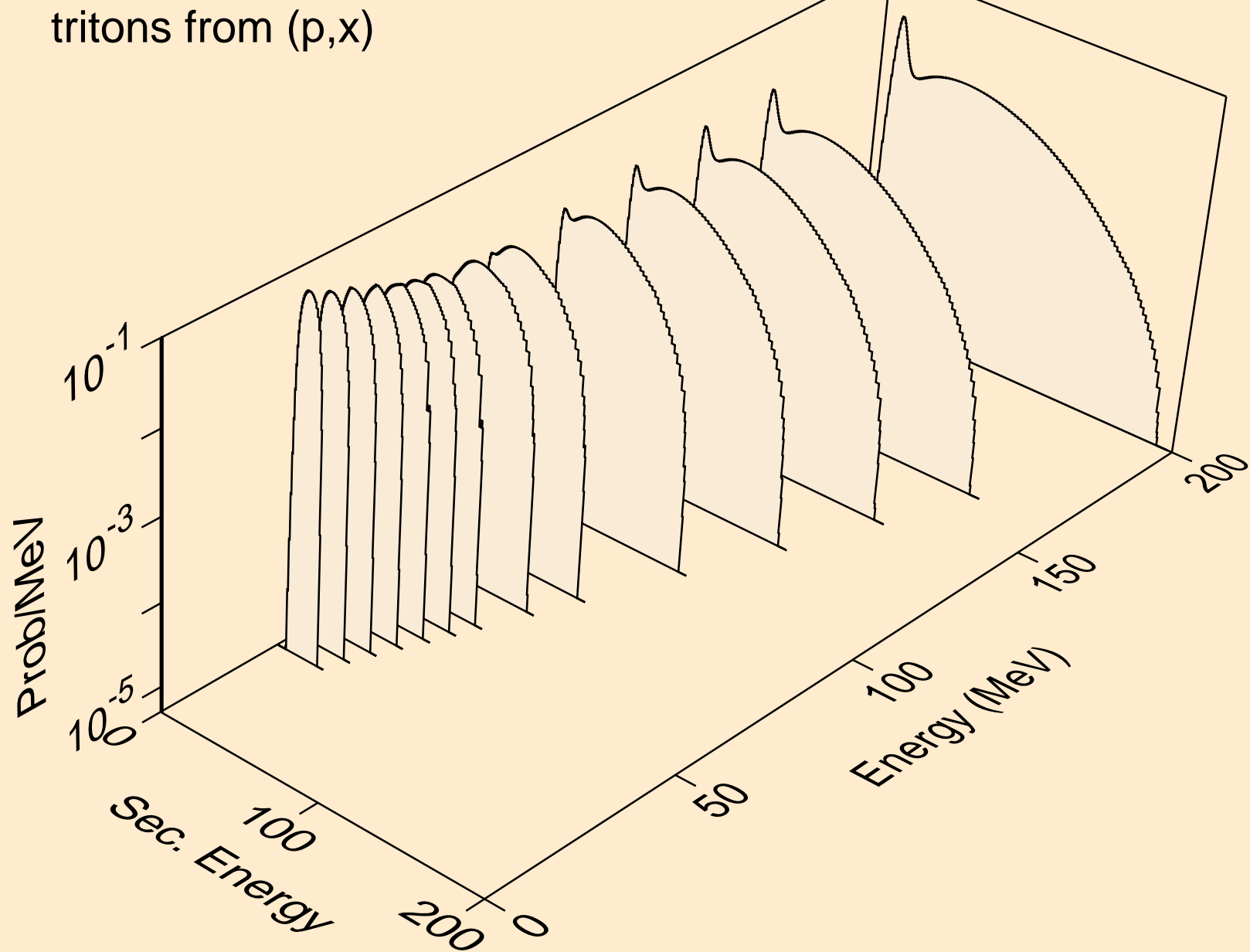
LU178 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
deuterons from (p,pd)



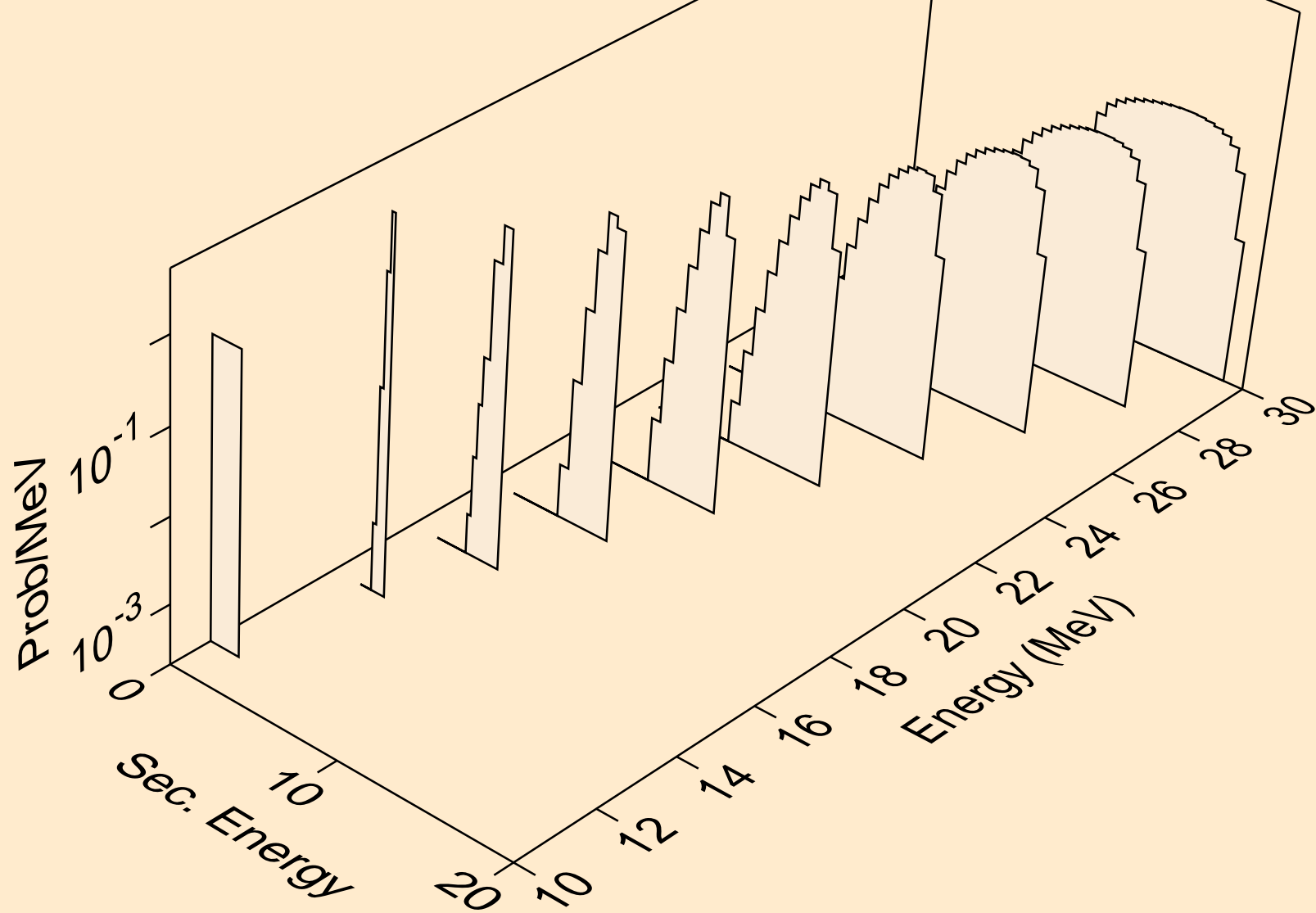
LU178 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
deuterons from (p,da)



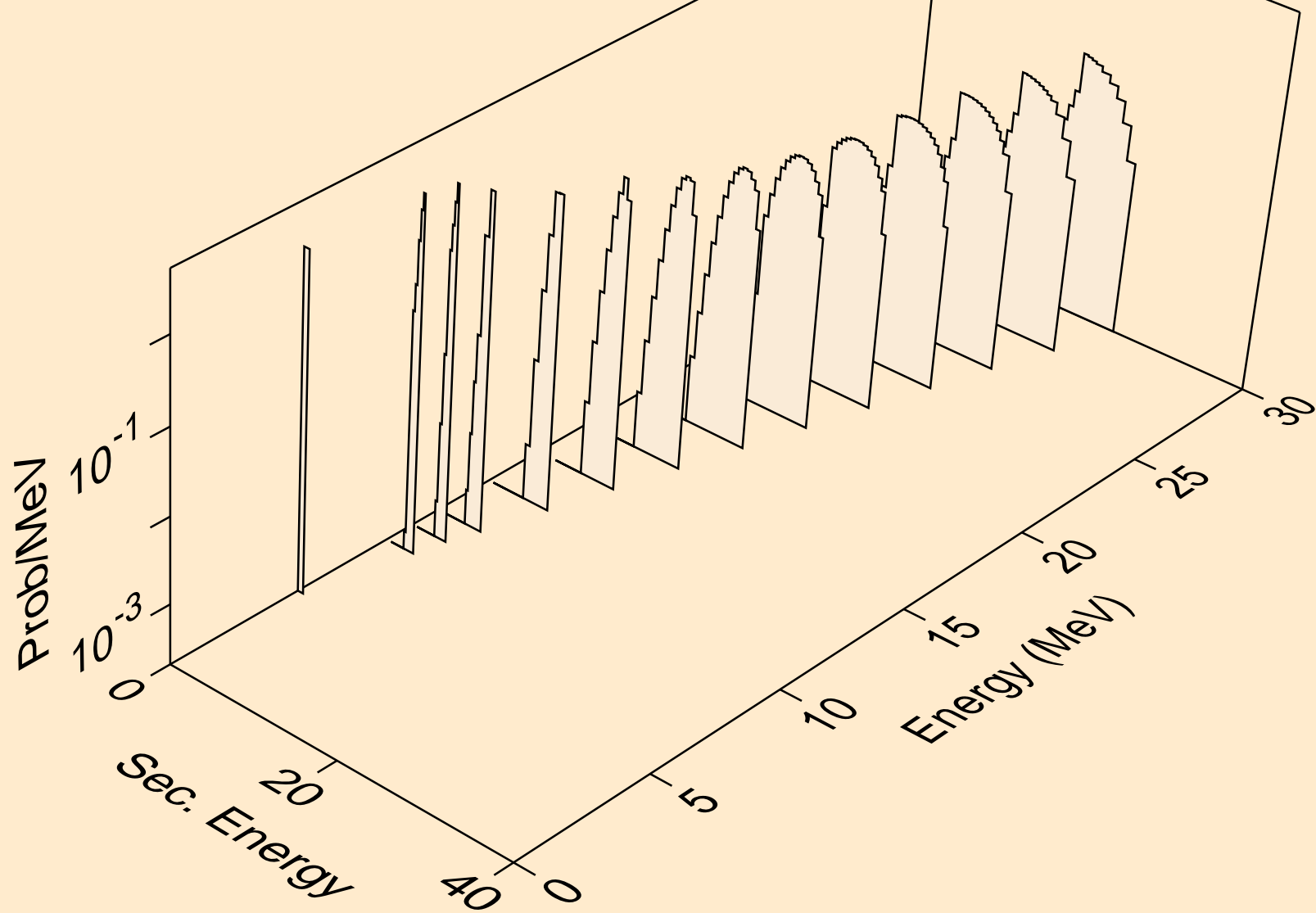
LU178 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
tritons from (p,x)



LU178 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
tritons from (p,n\*)t

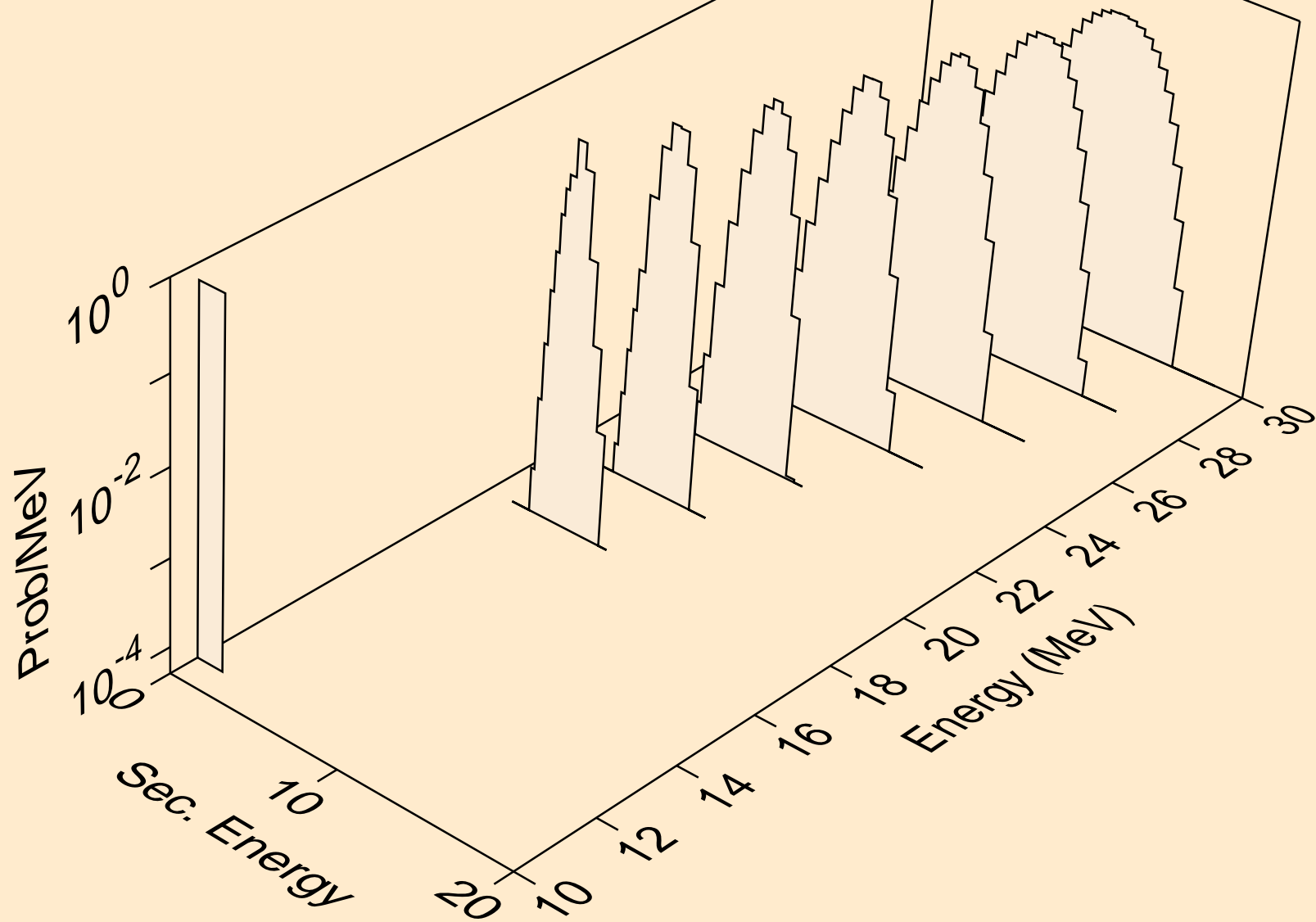


LU178 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
tritons from (p,t)

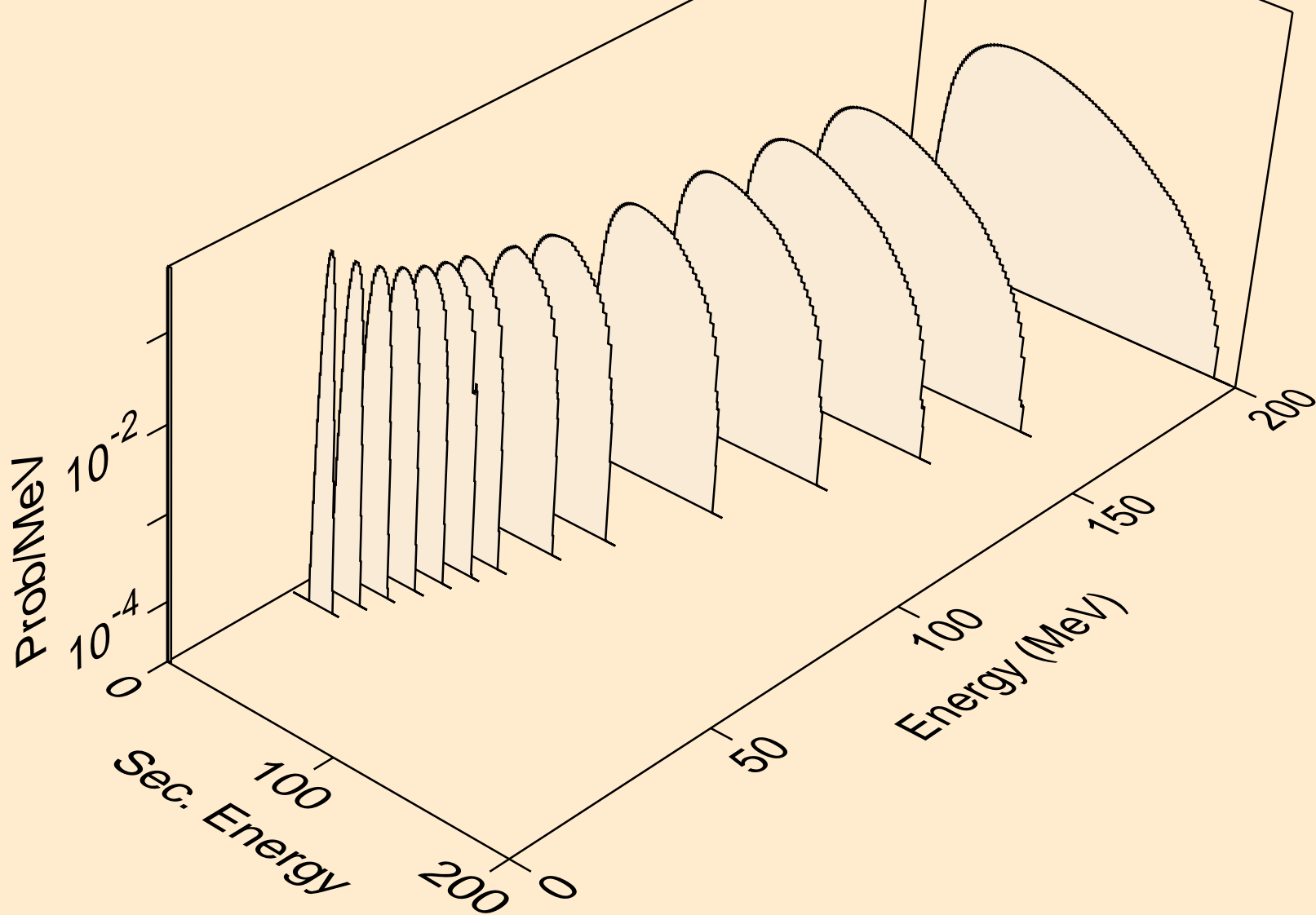




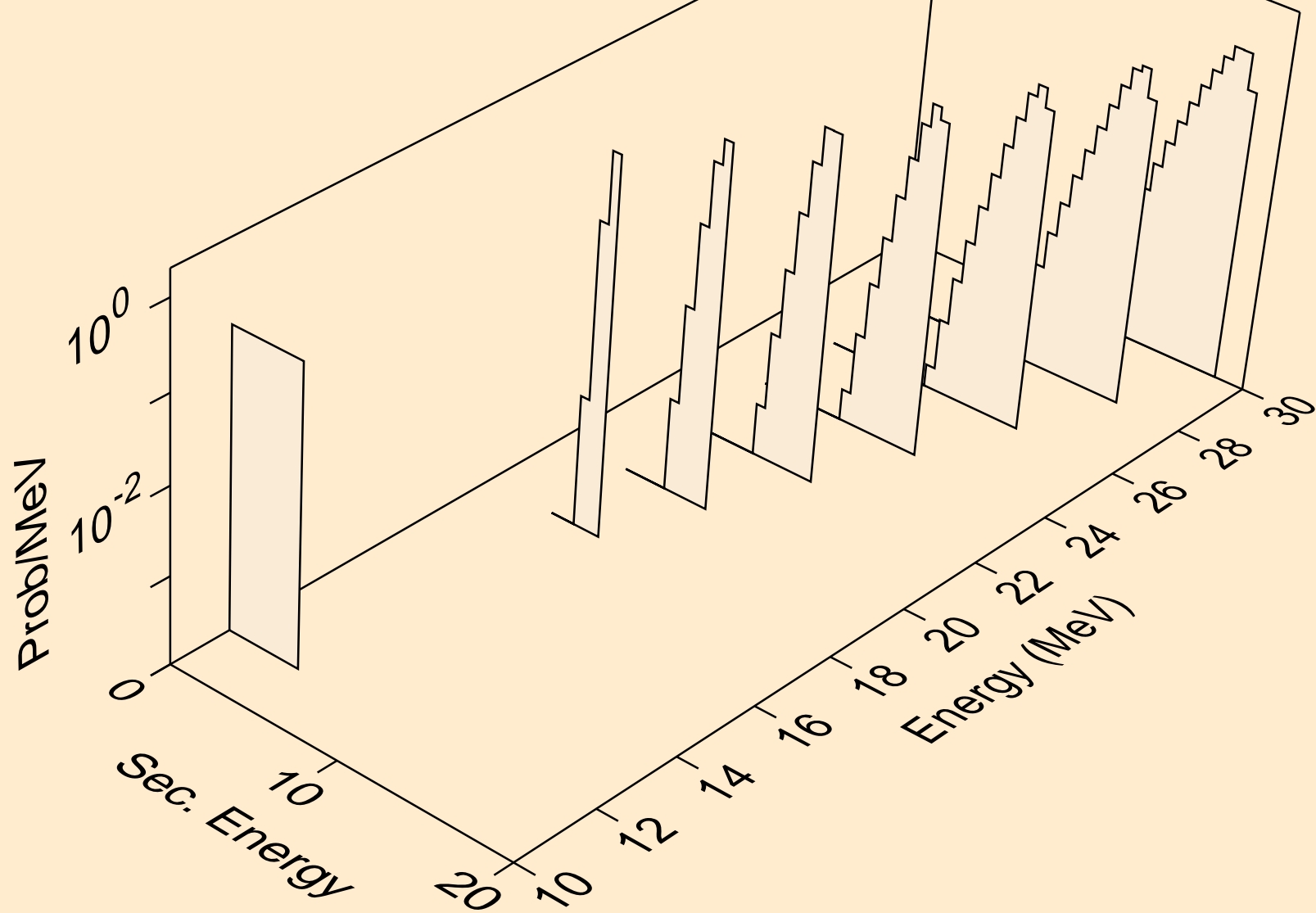
LU178 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
tritons from (p,pt)



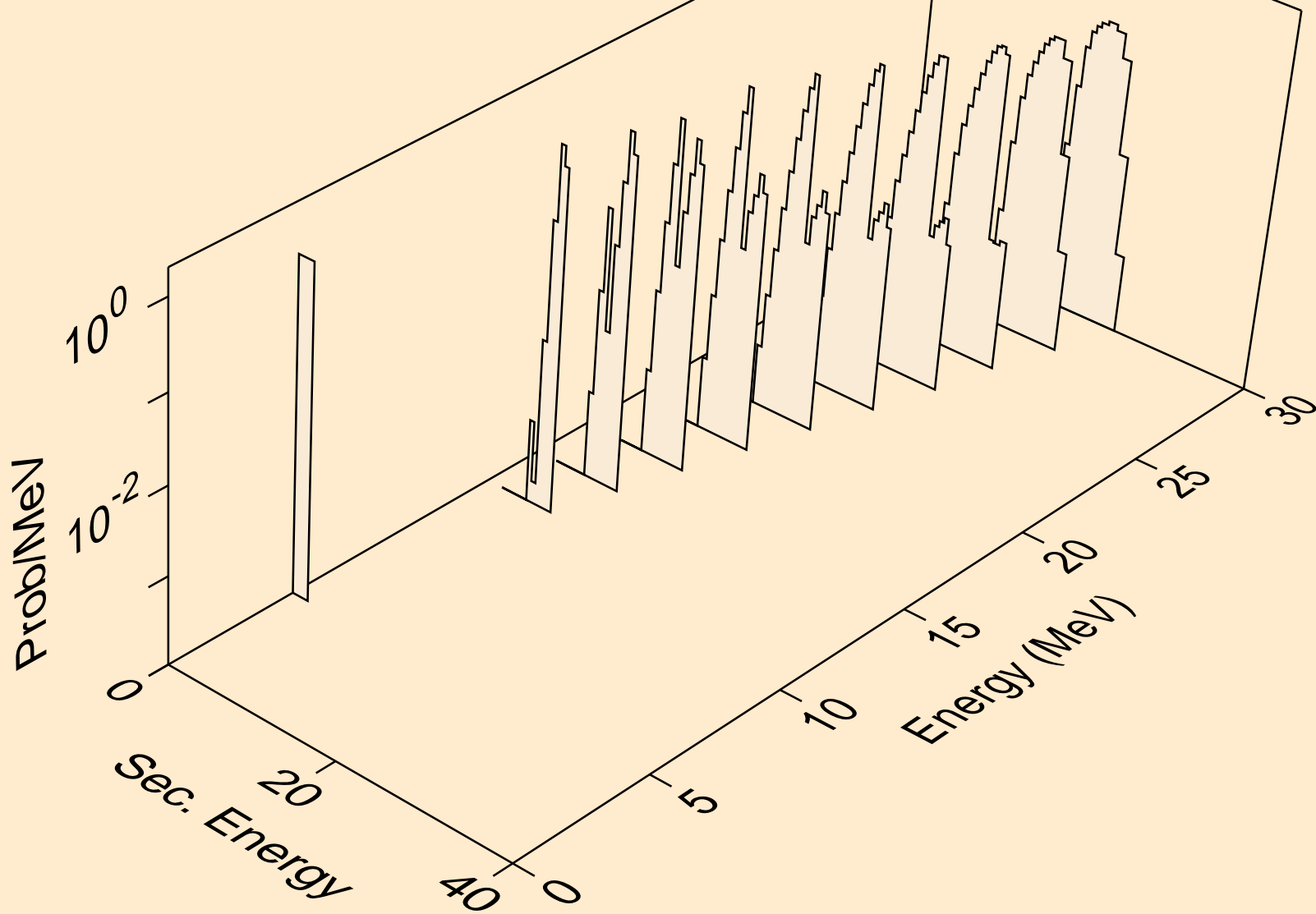
LU178 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
he3s from (p,x)



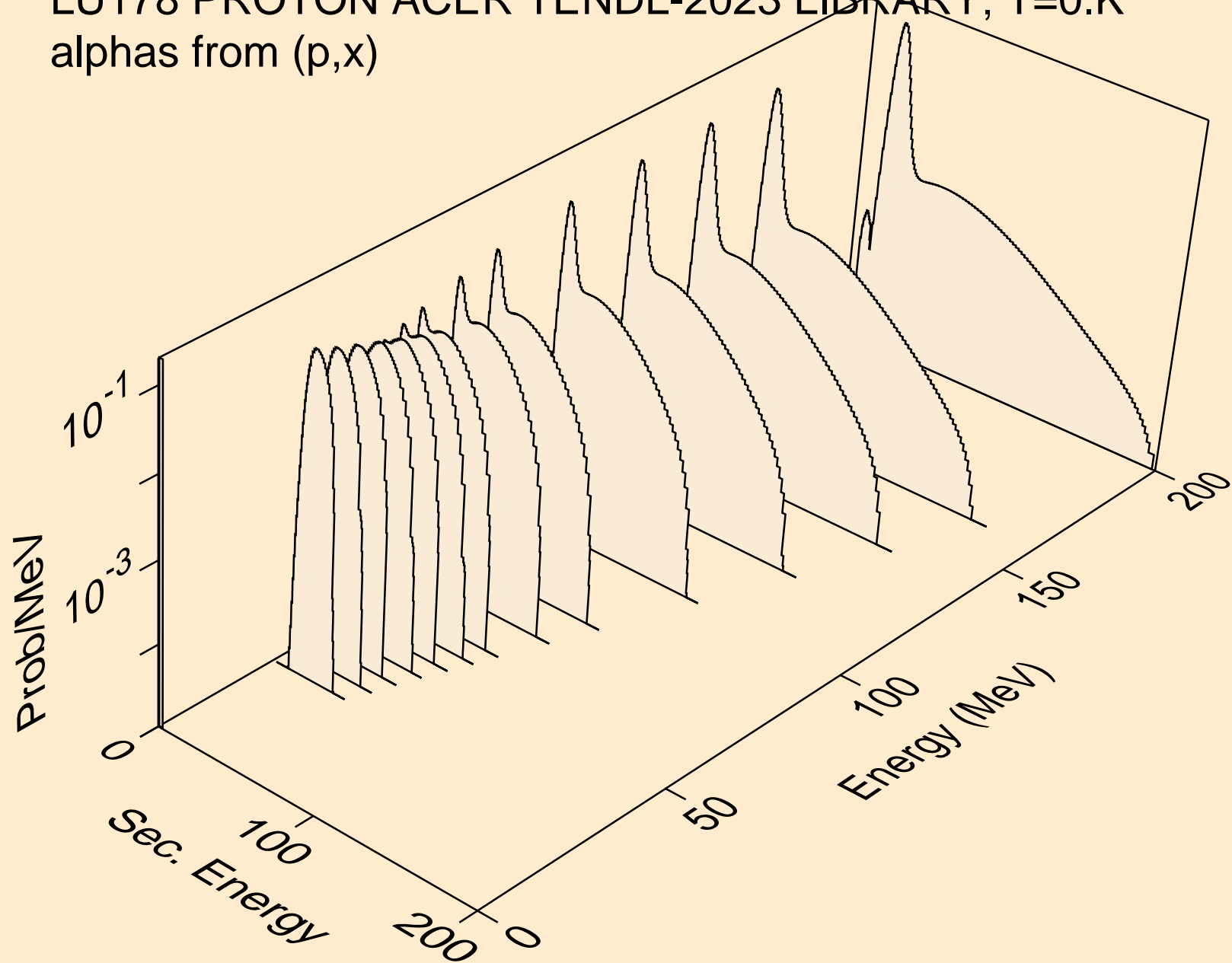
LU178 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
he3s from (p,n\*)he3



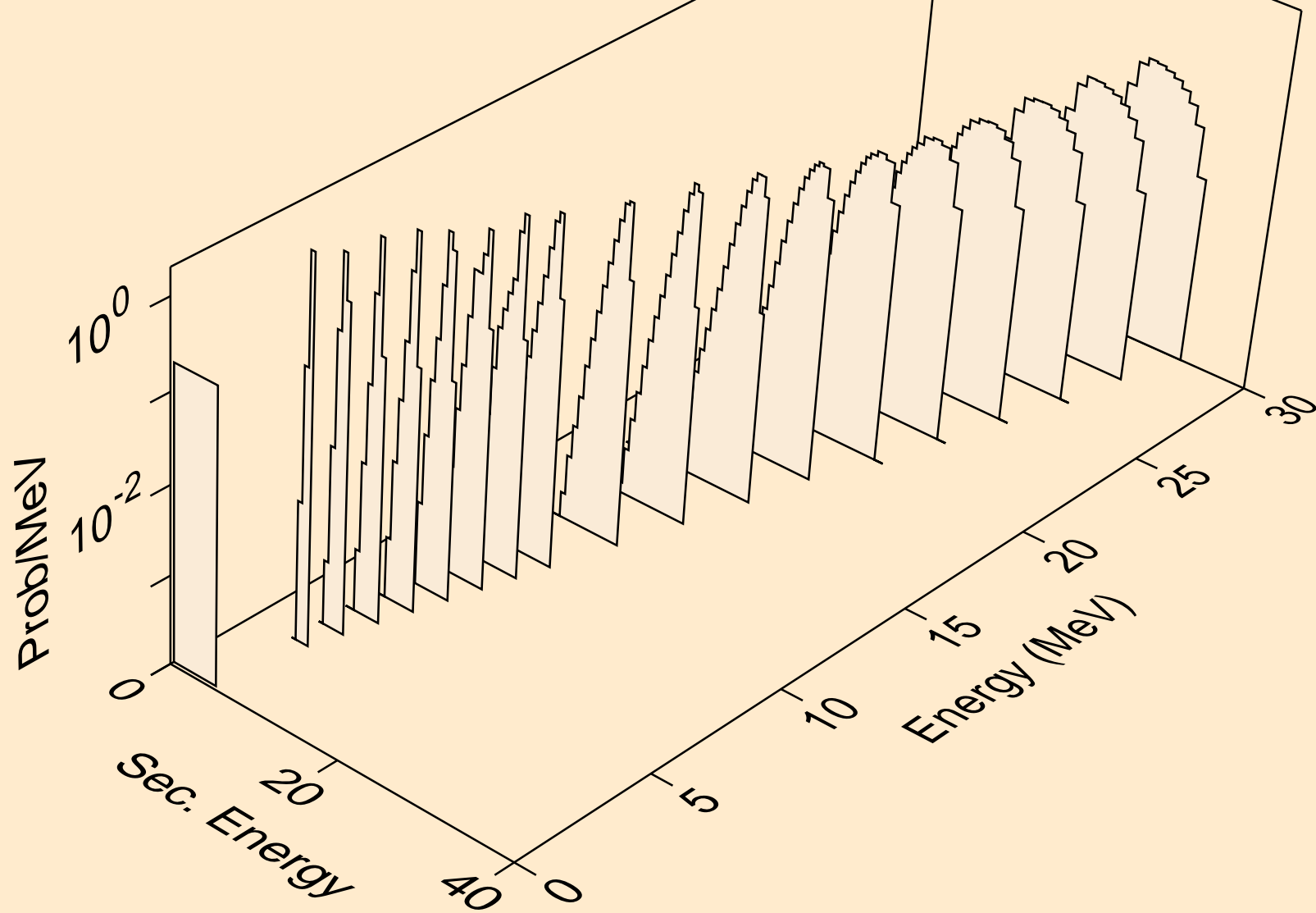
LU178 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
he3s from (p,he3)



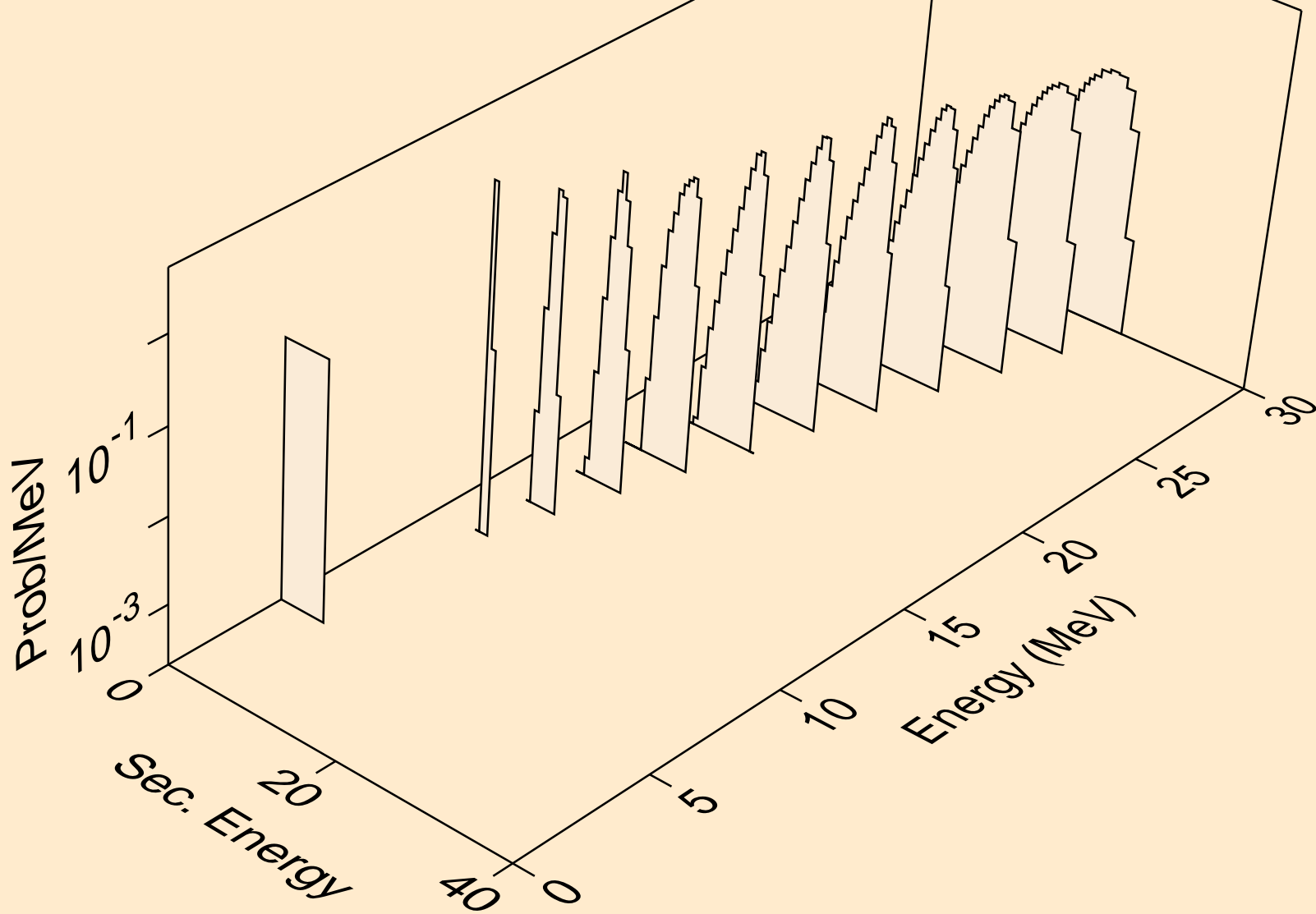
LU178 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (p,x)



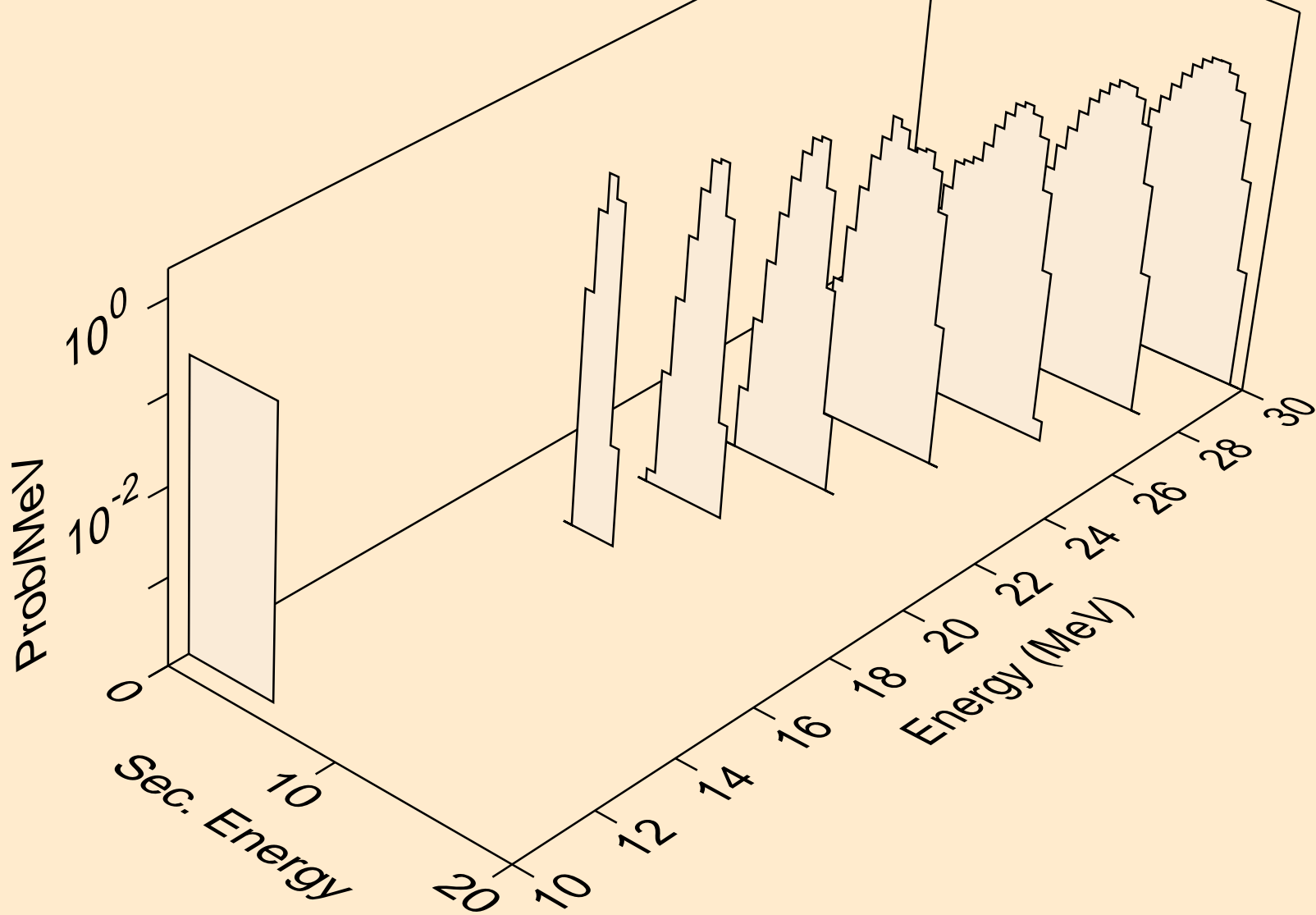
LU178 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (p,n\*)a



LU178 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (p,2n)a

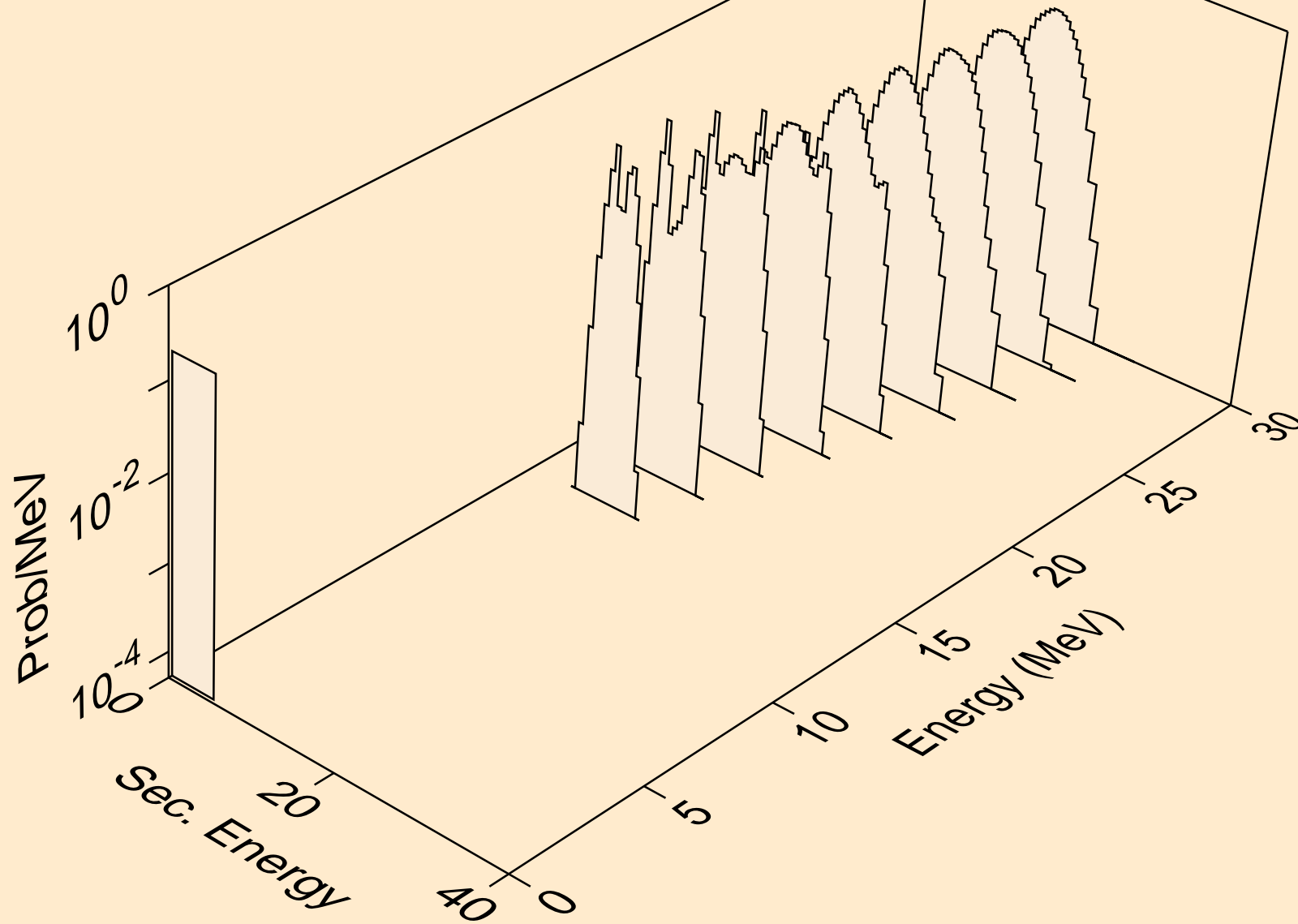


LU178 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (p,3n)a

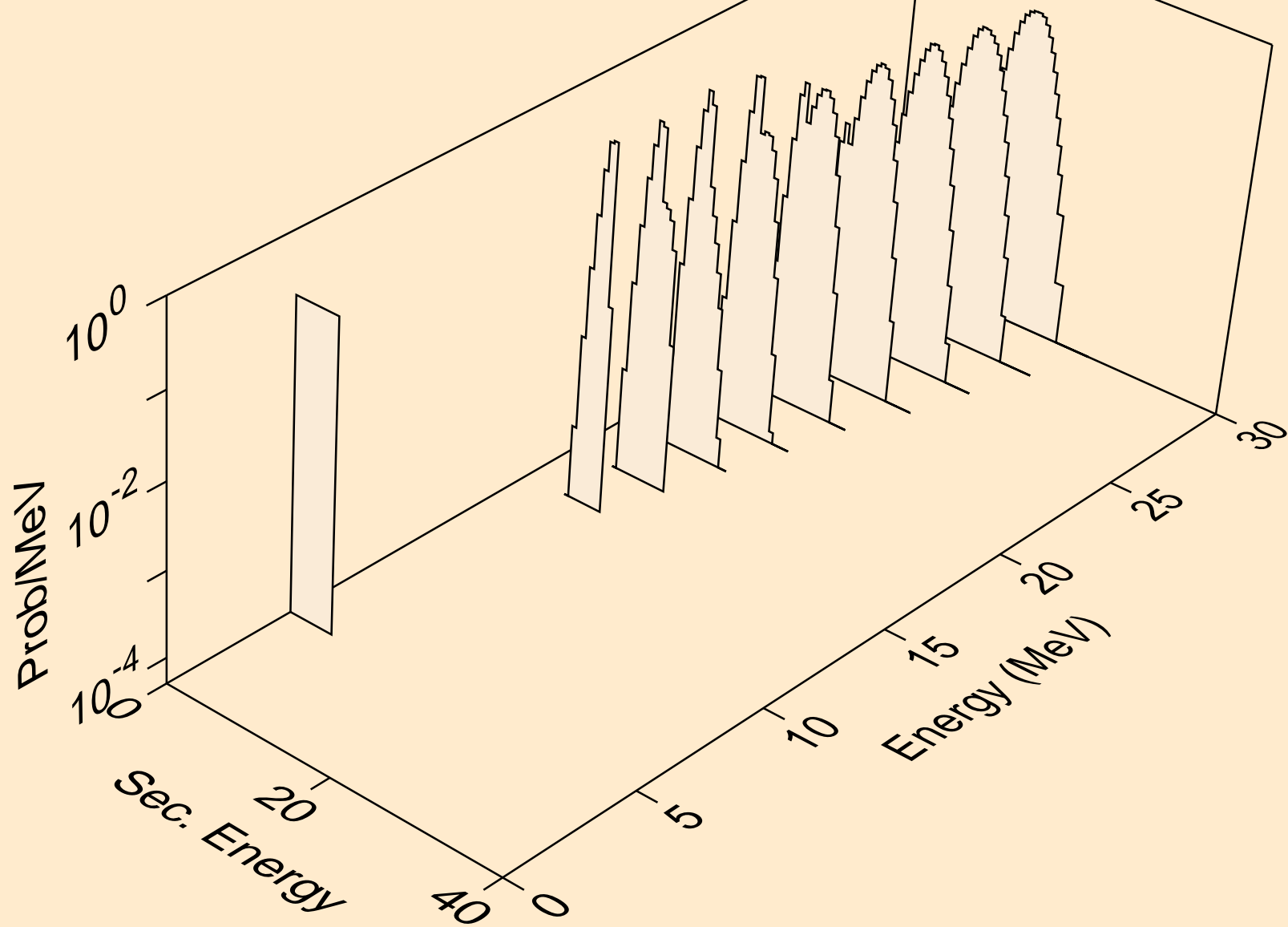




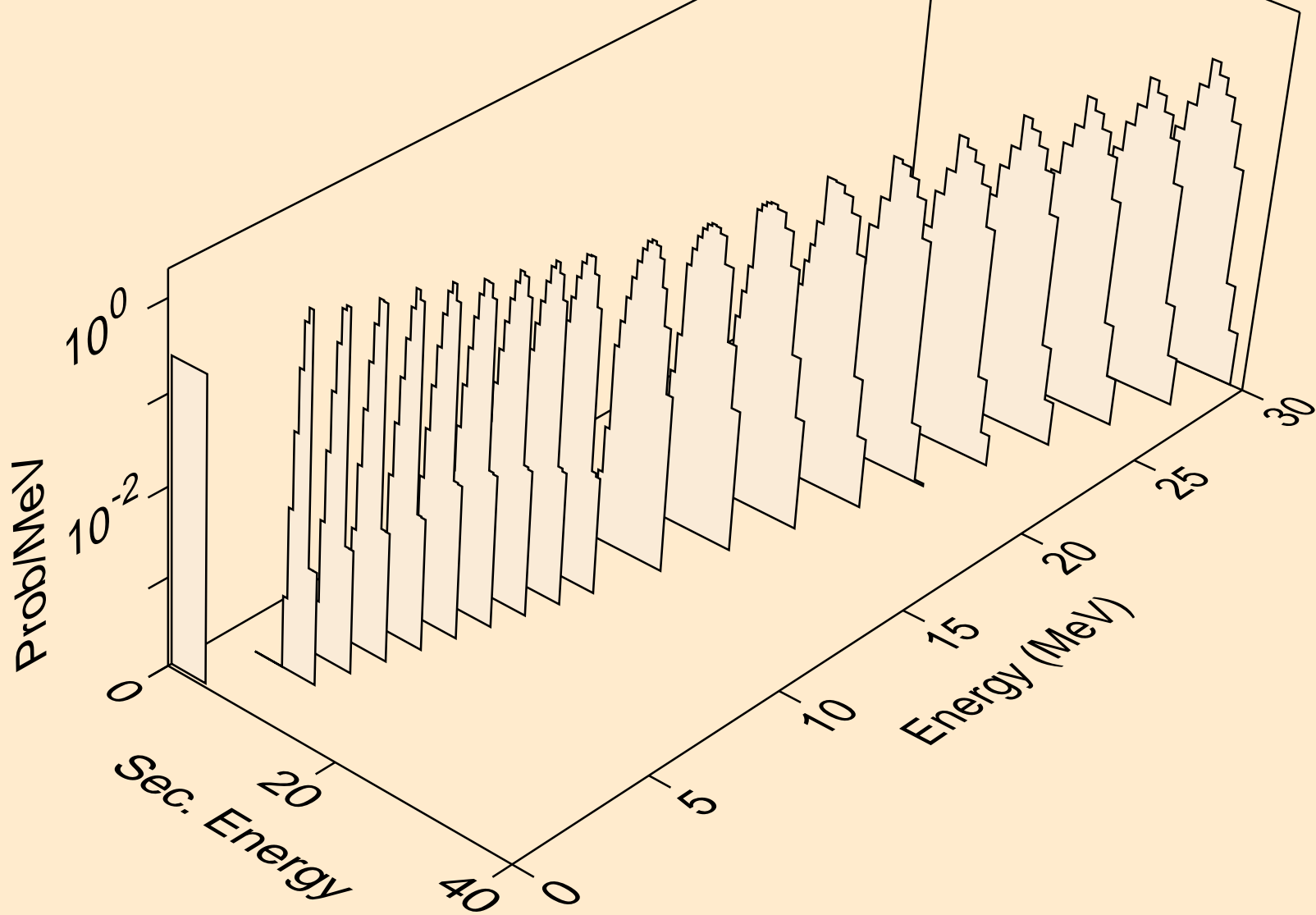
LU178 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (p,n\*)2a



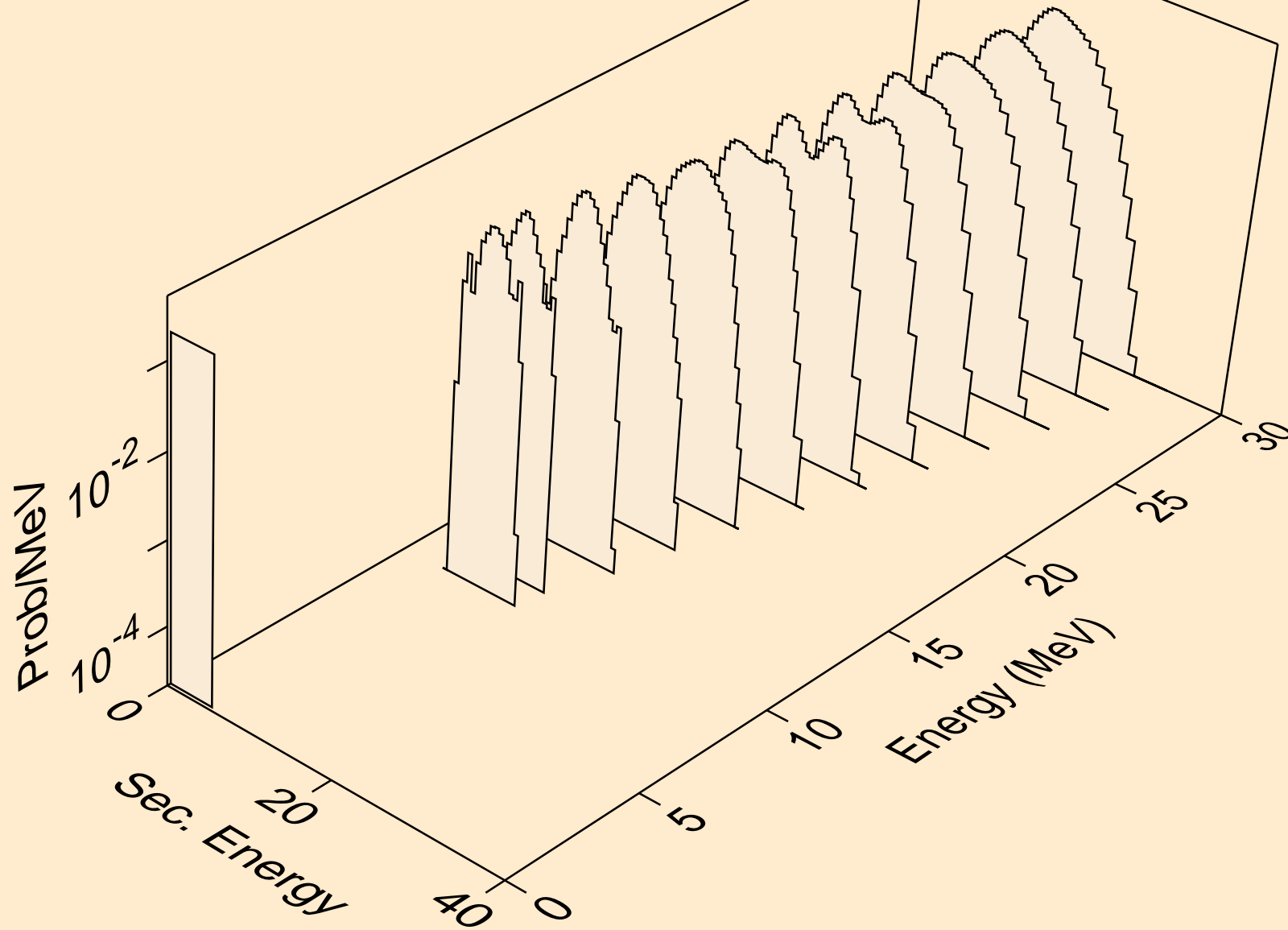
LU178 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (p,npa)



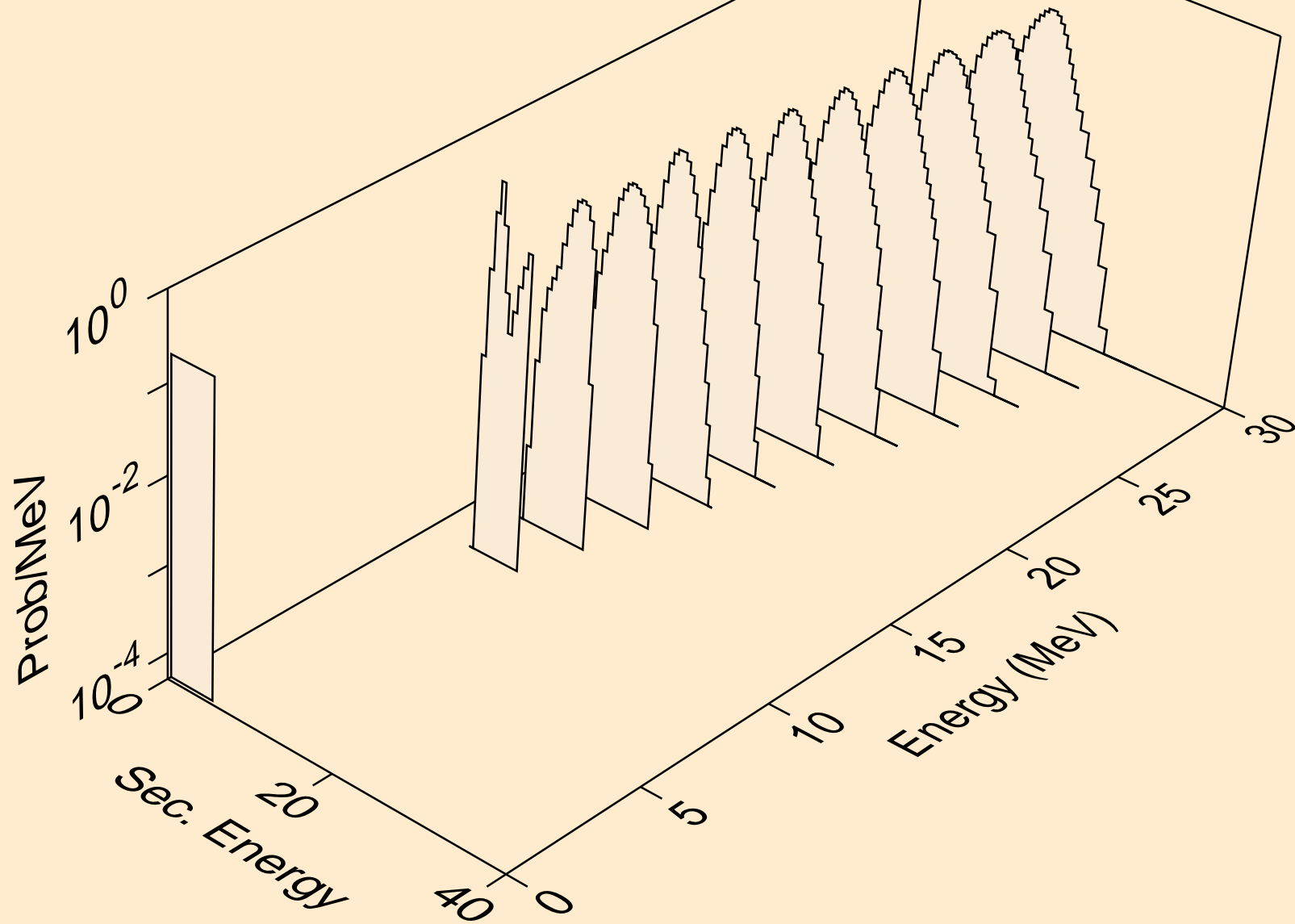
LU178 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (p,a)



LU178 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (p,2a)



LU178 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (p,pa)



LU178 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (p,da)

