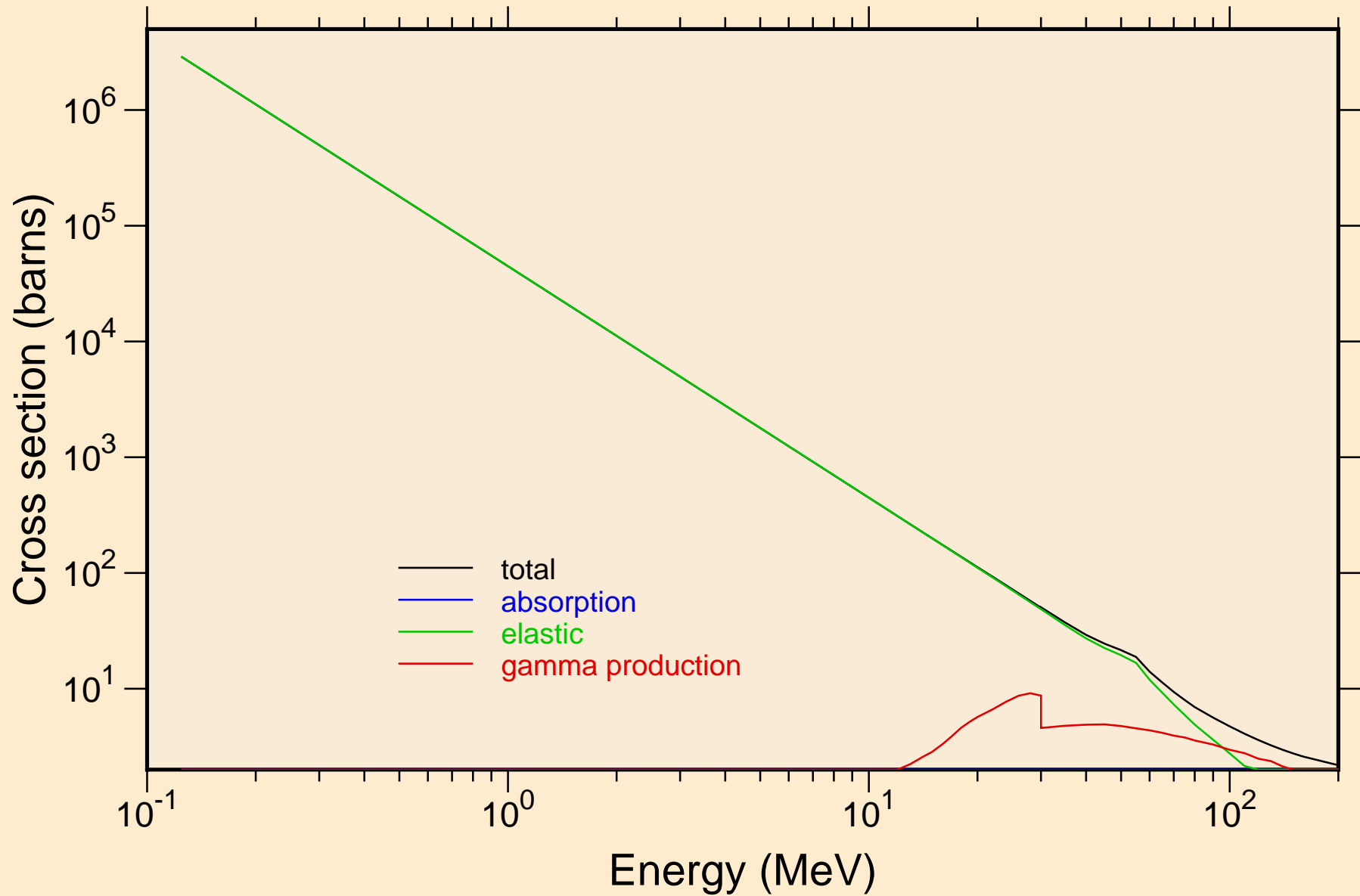


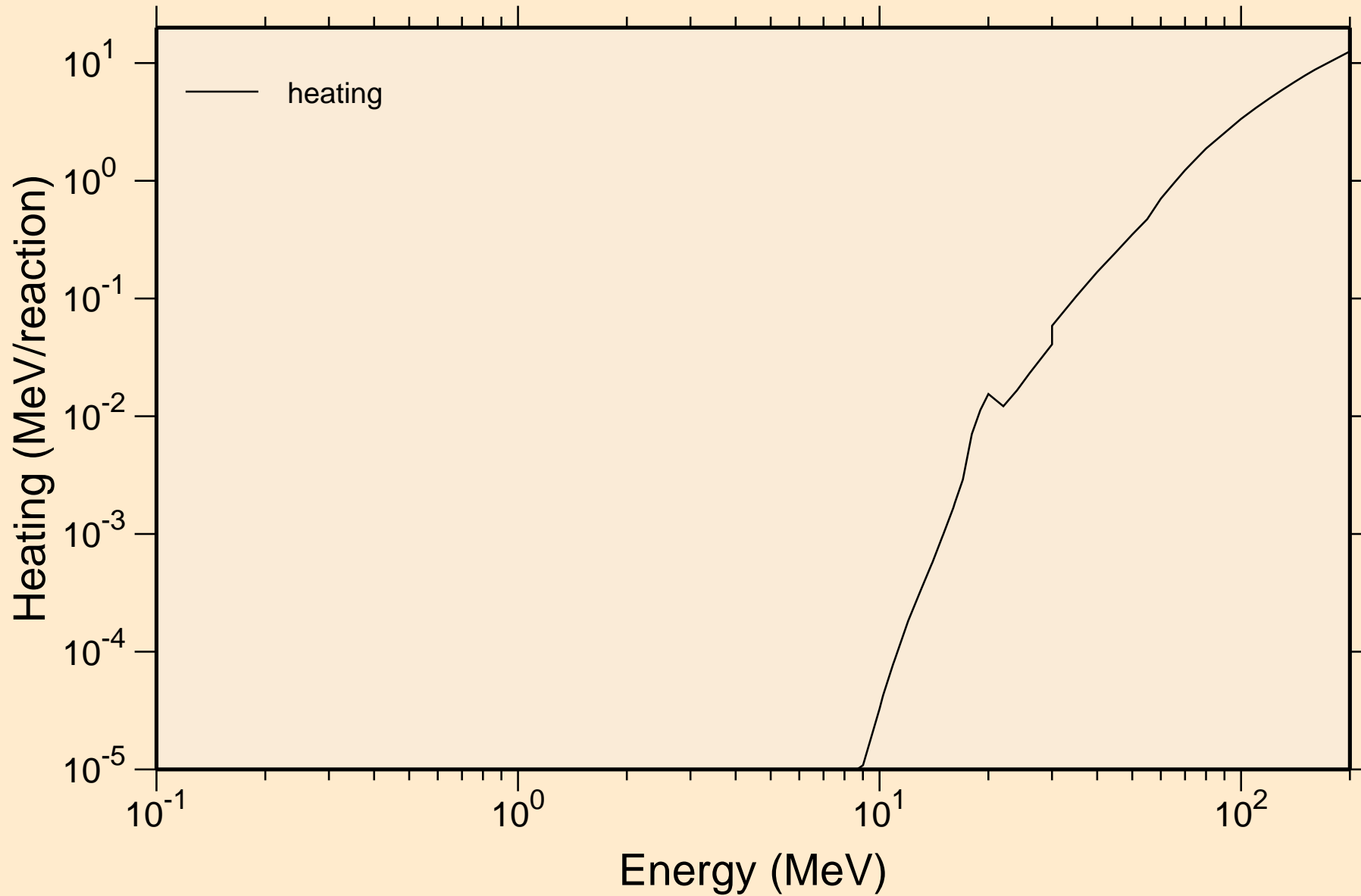
# AT219 PROTON ACER TENDL-2023 LIBRARY; T=0.K

## Principal cross sections



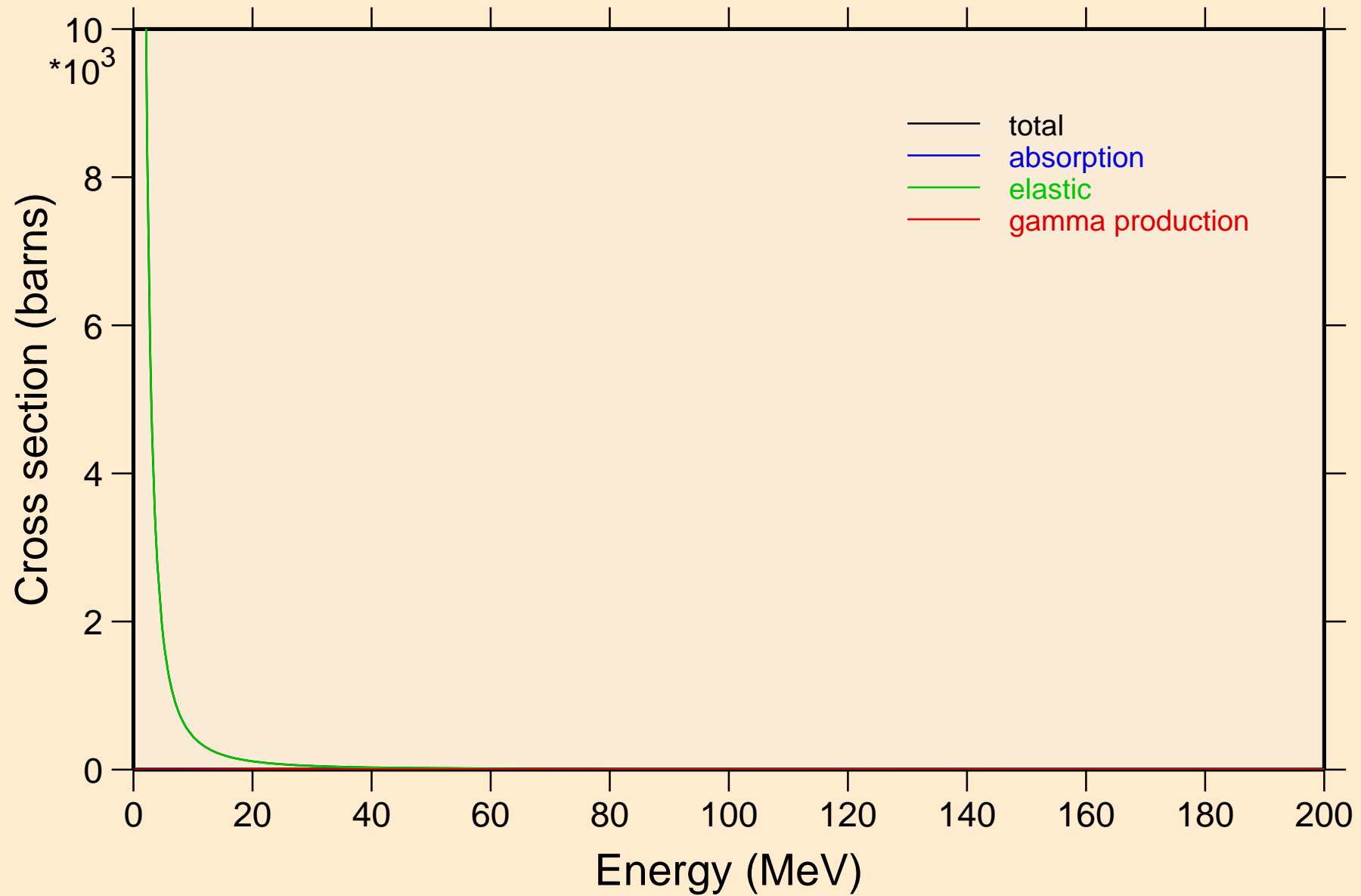
# AT219 PROTON ACER TENDL-2023 LIBRARY; T=0.K

## Heating



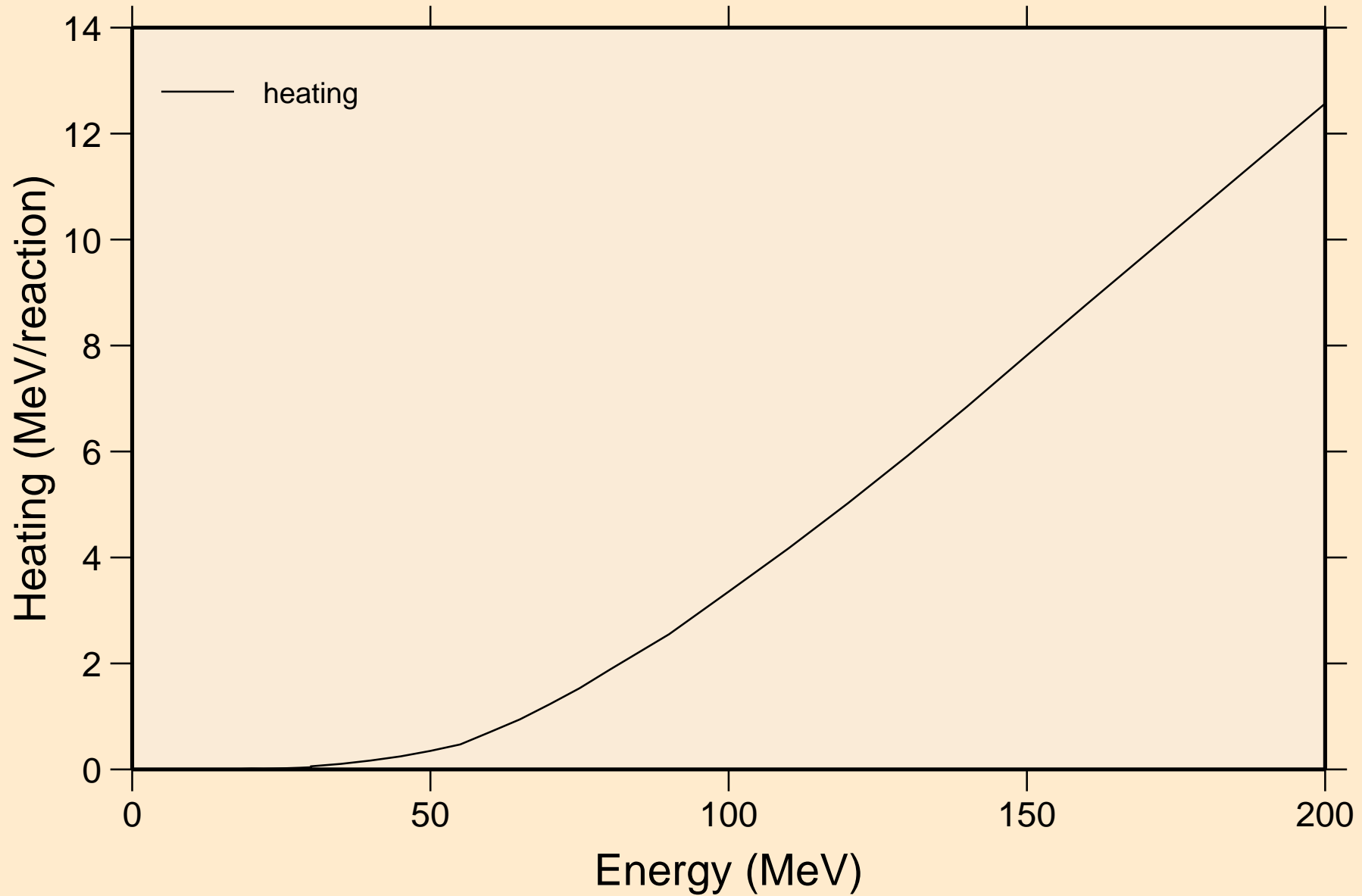
# AT219 PROTON ACER TENDL-2023 LIBRARY; T=0.K

## Principal cross sections



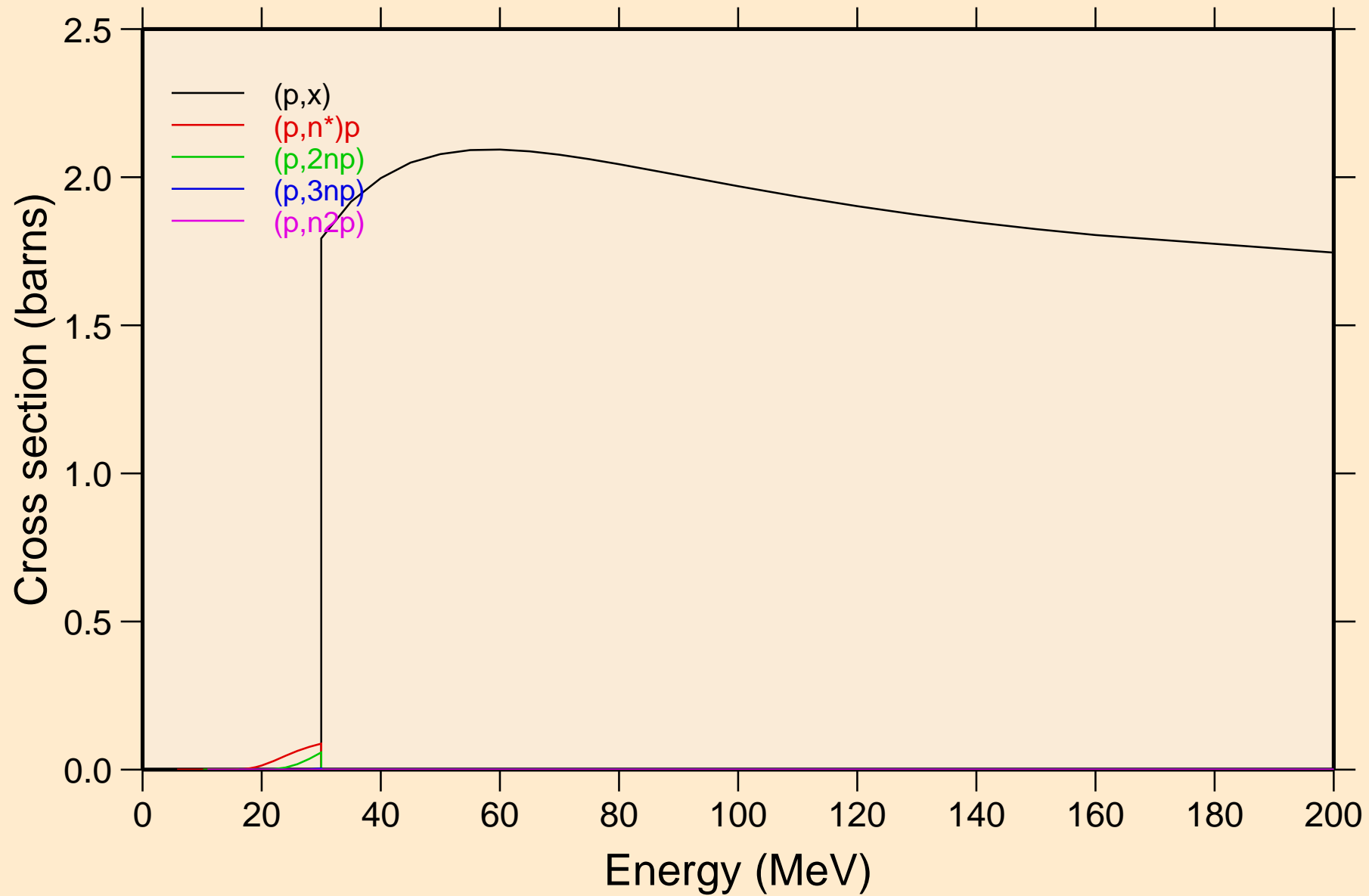
# AT219 PROTON ACER TENDL-2023 LIBRARY; T=0.K

## Heating

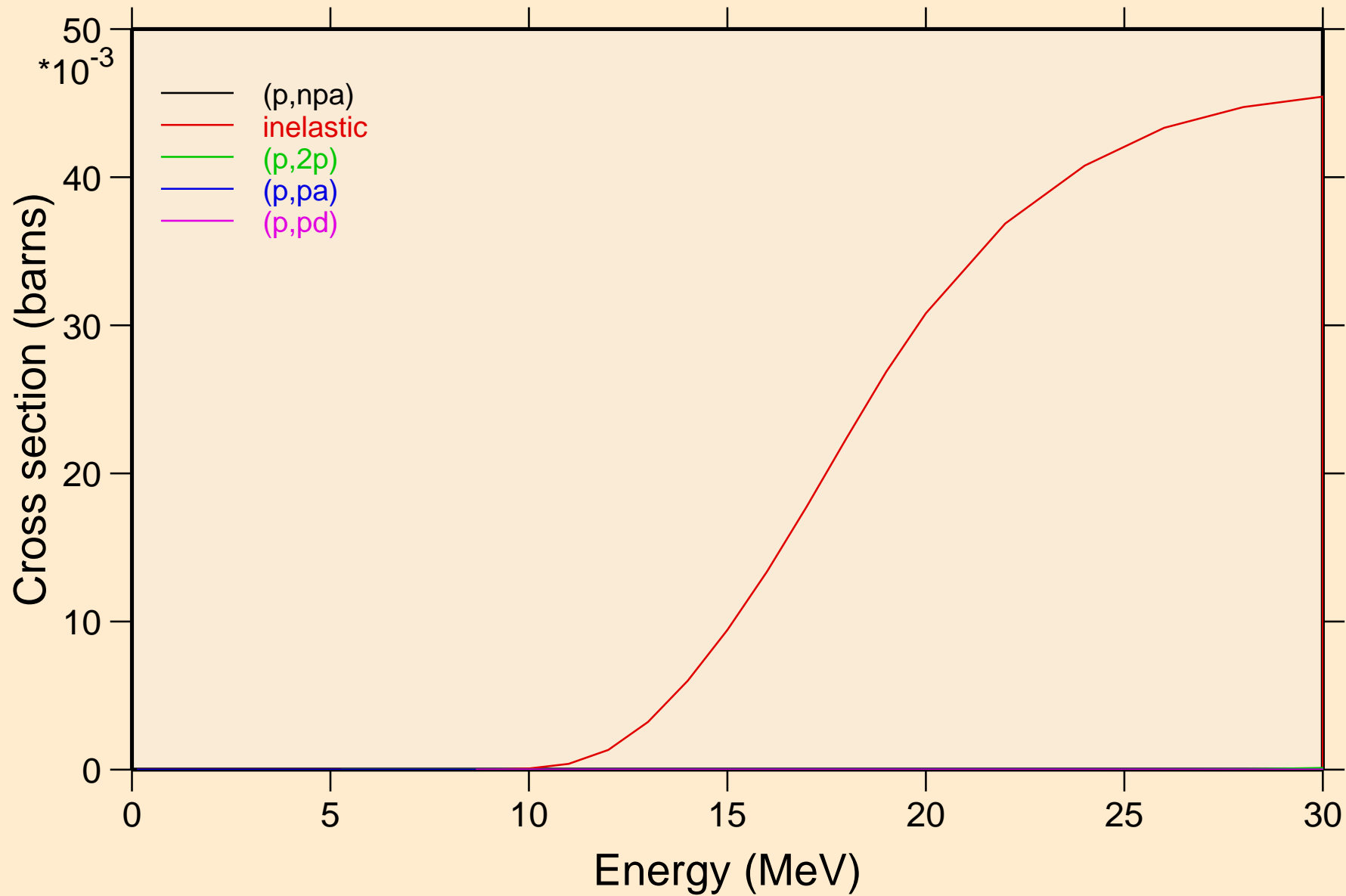


# AT219 PROTON ACER TENDL-2023 LIBRARY; T=0.K

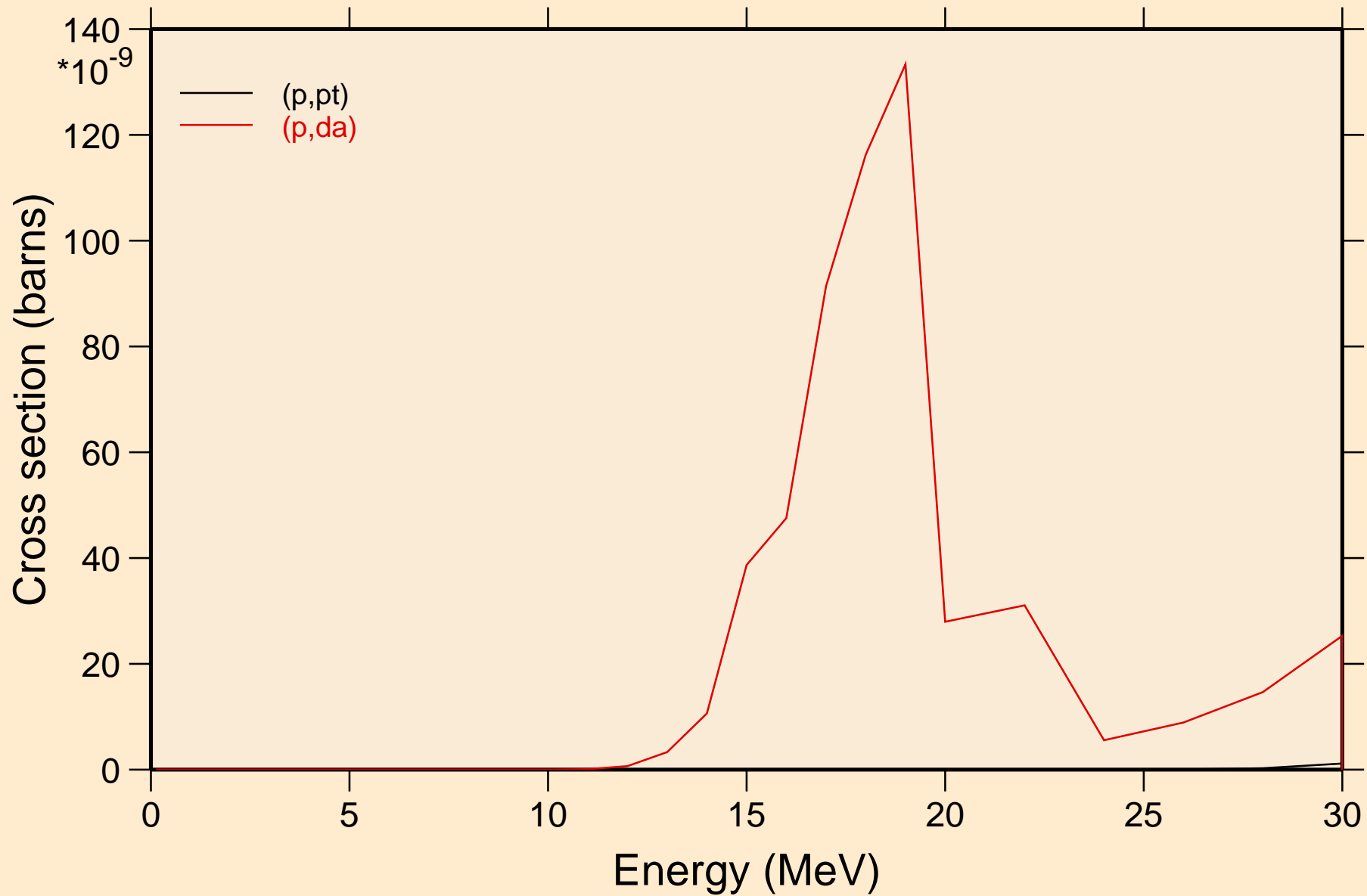
## Threshold reactions



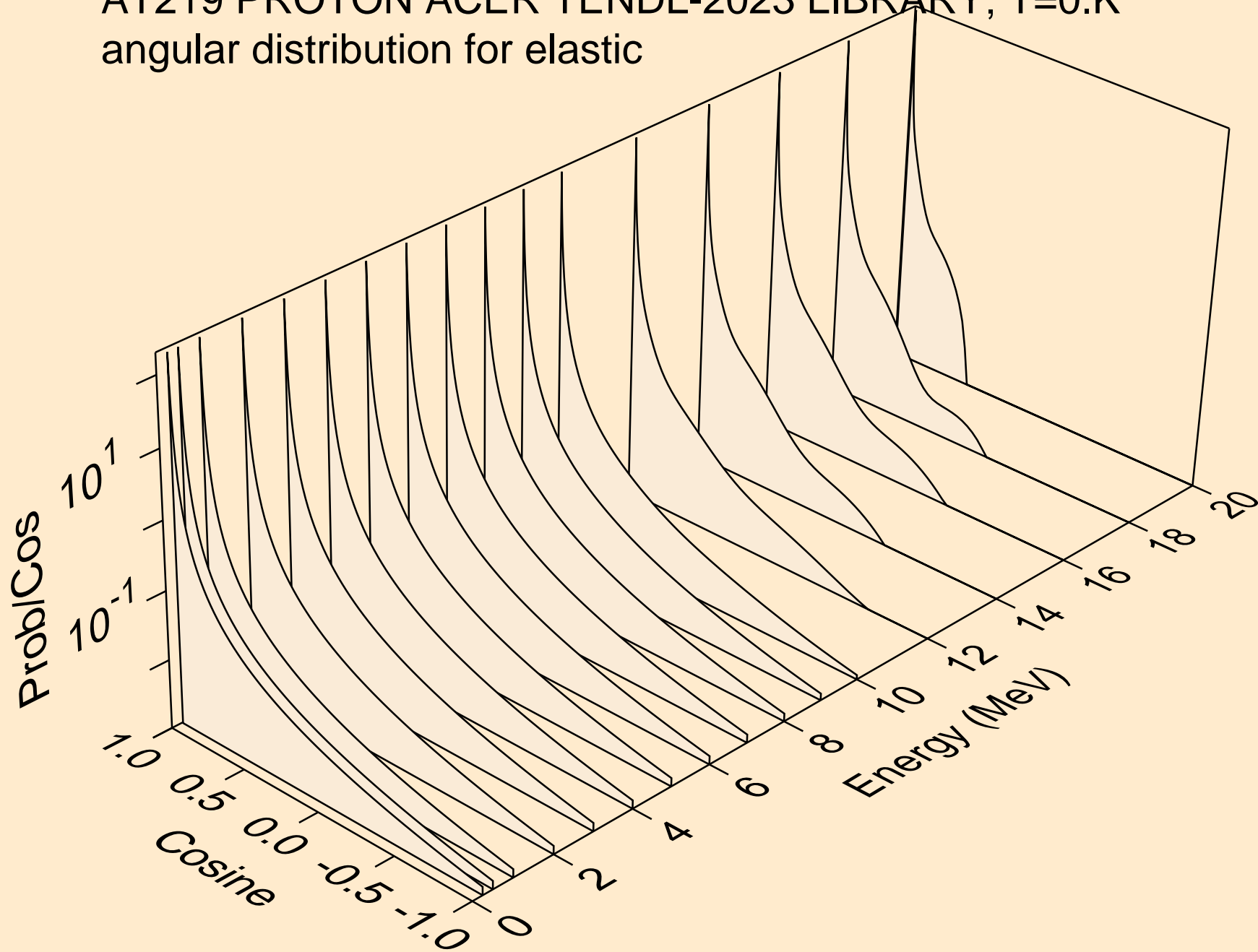
AT219 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Threshold reactions



AT219 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Threshold reactions

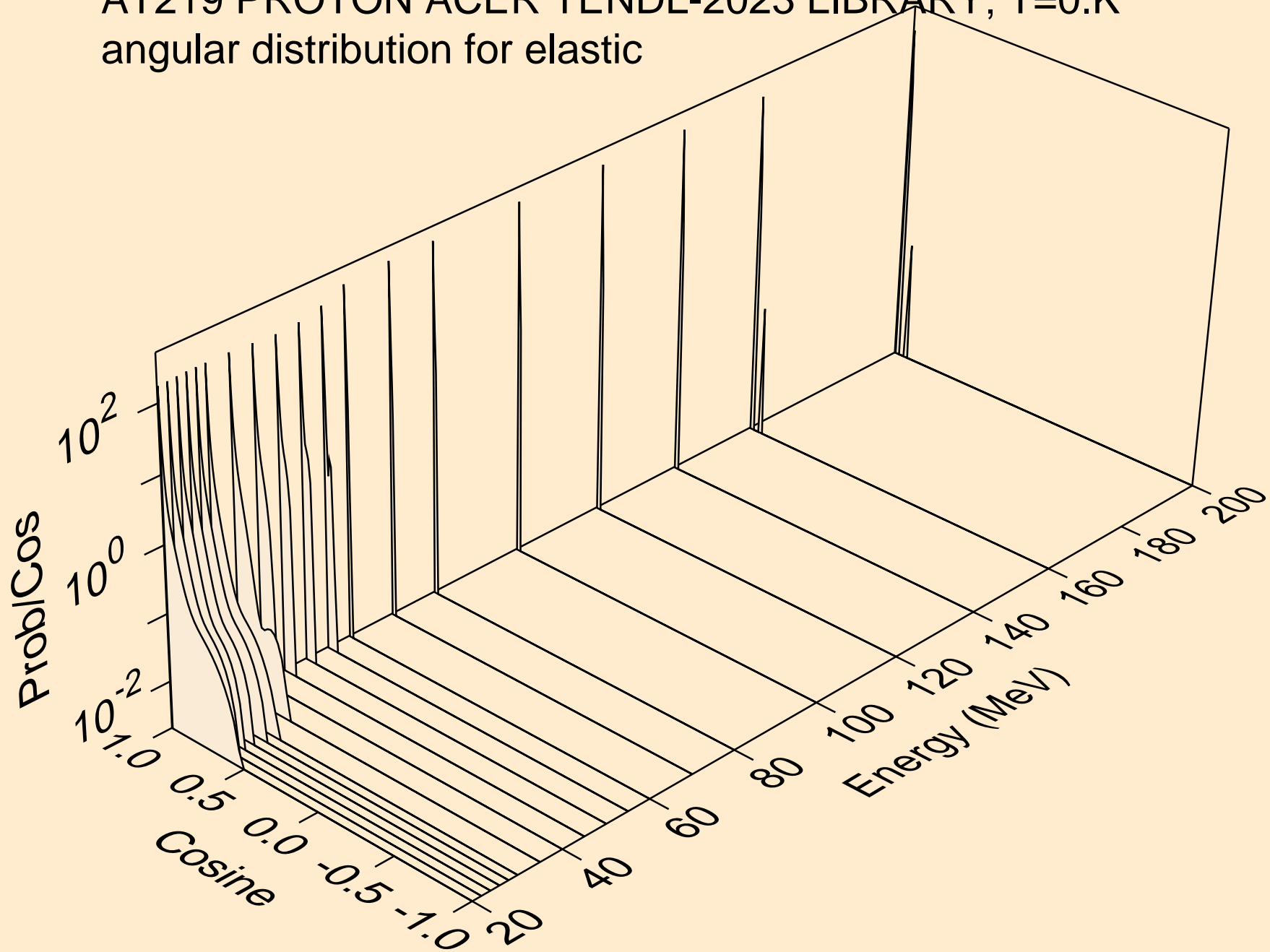


AT219 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for elastic

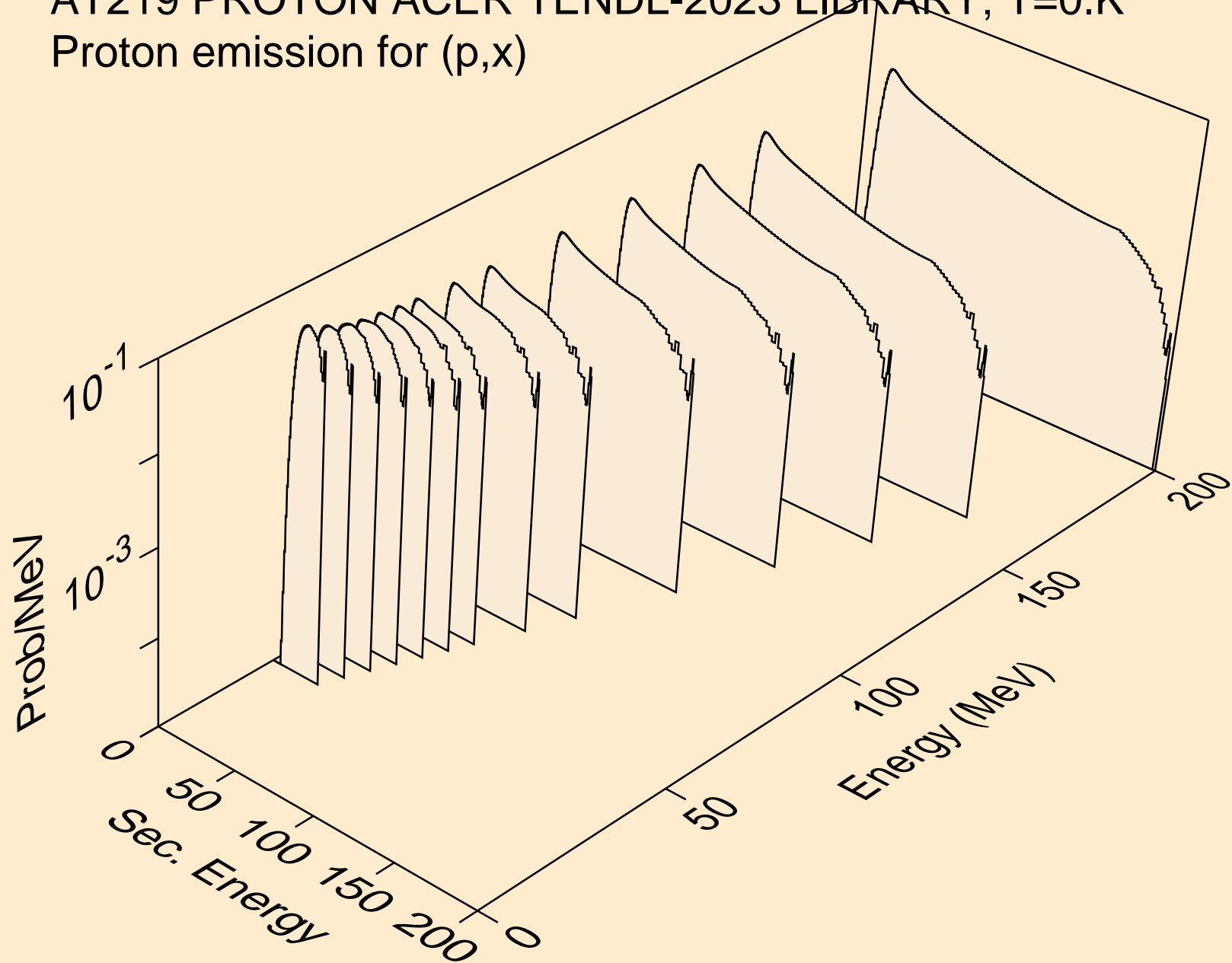




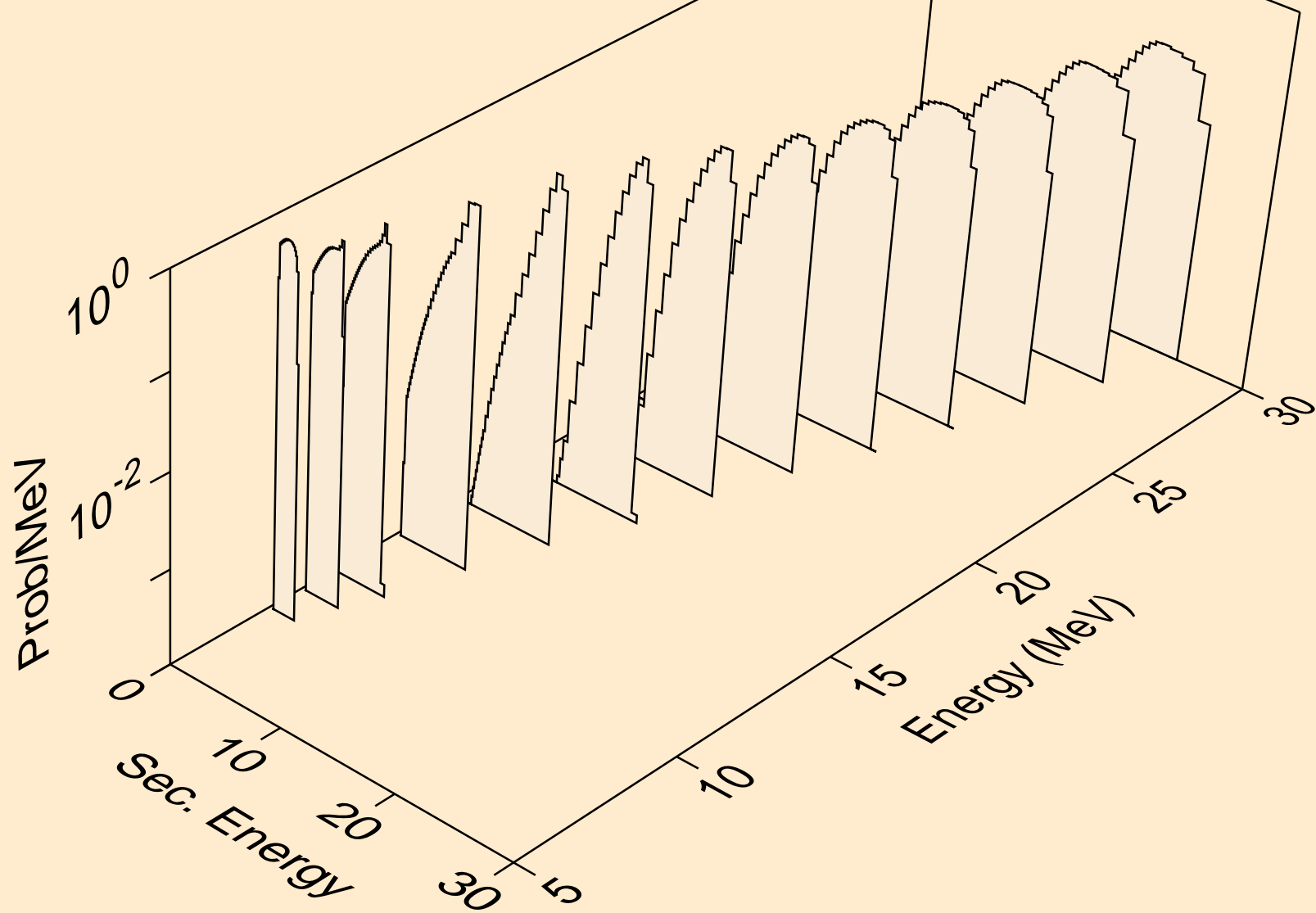
AT219 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for elastic



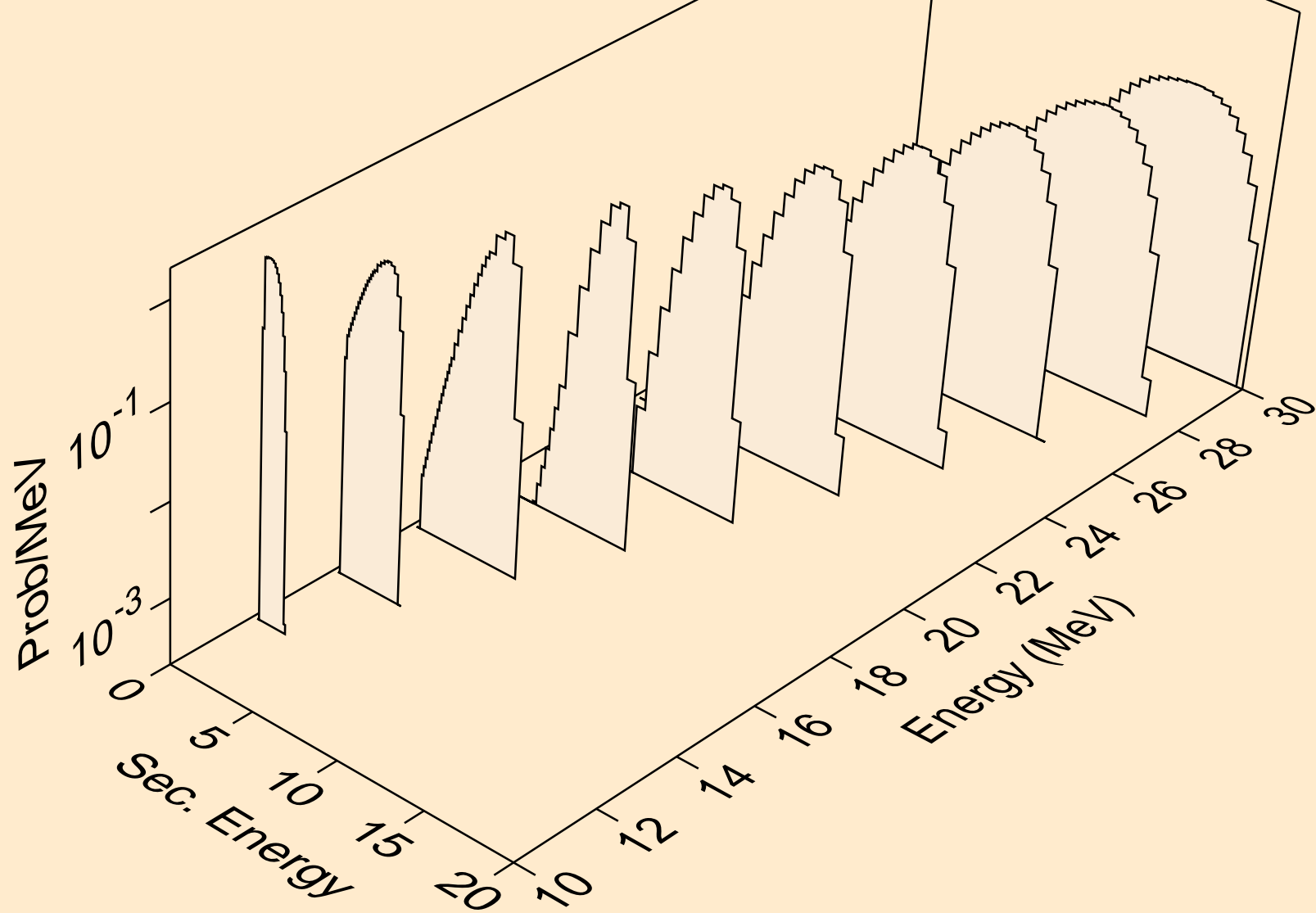
AT219 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Proton emission for (p,x)



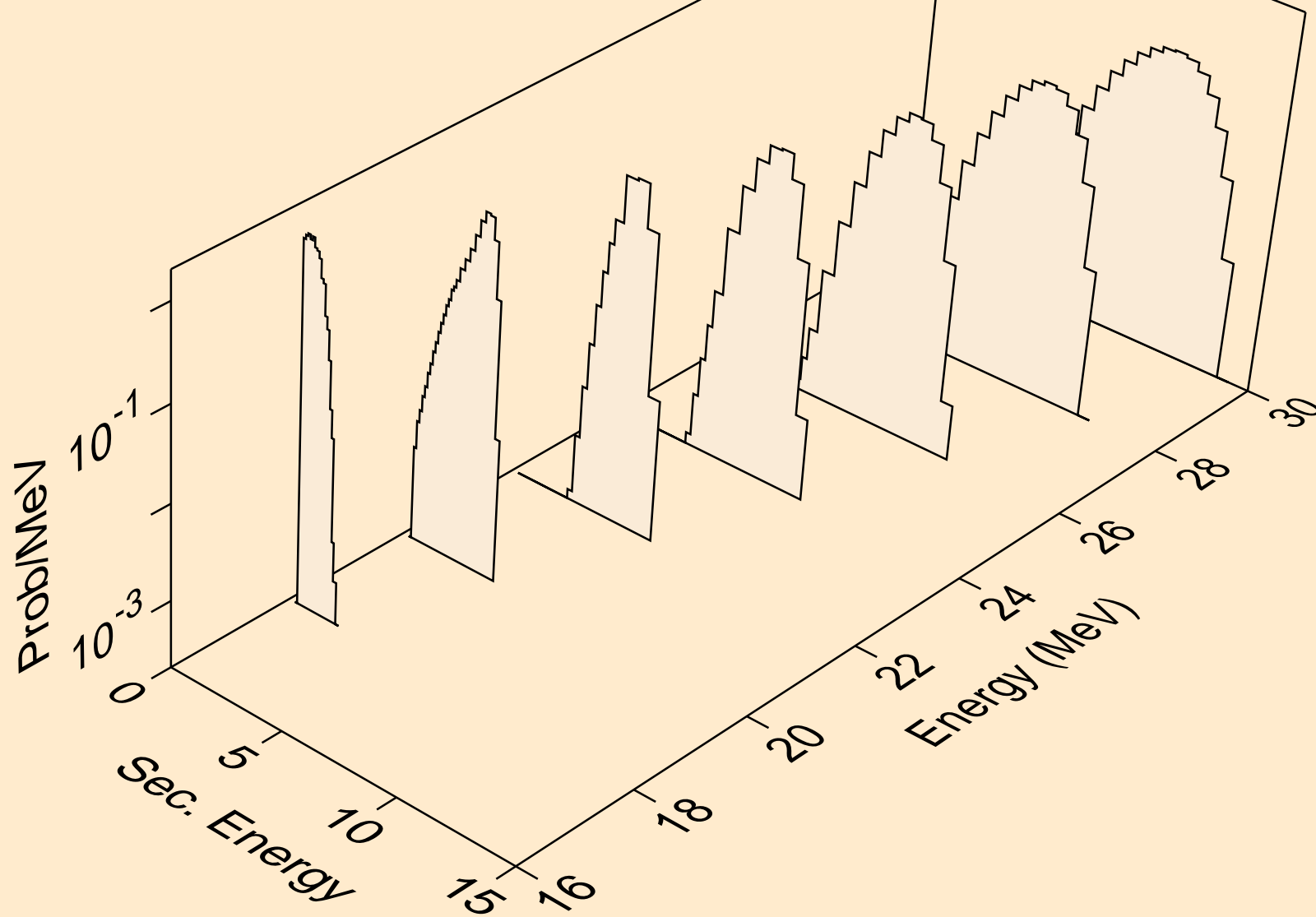
AT219 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Proton emission for (p,n\*)p



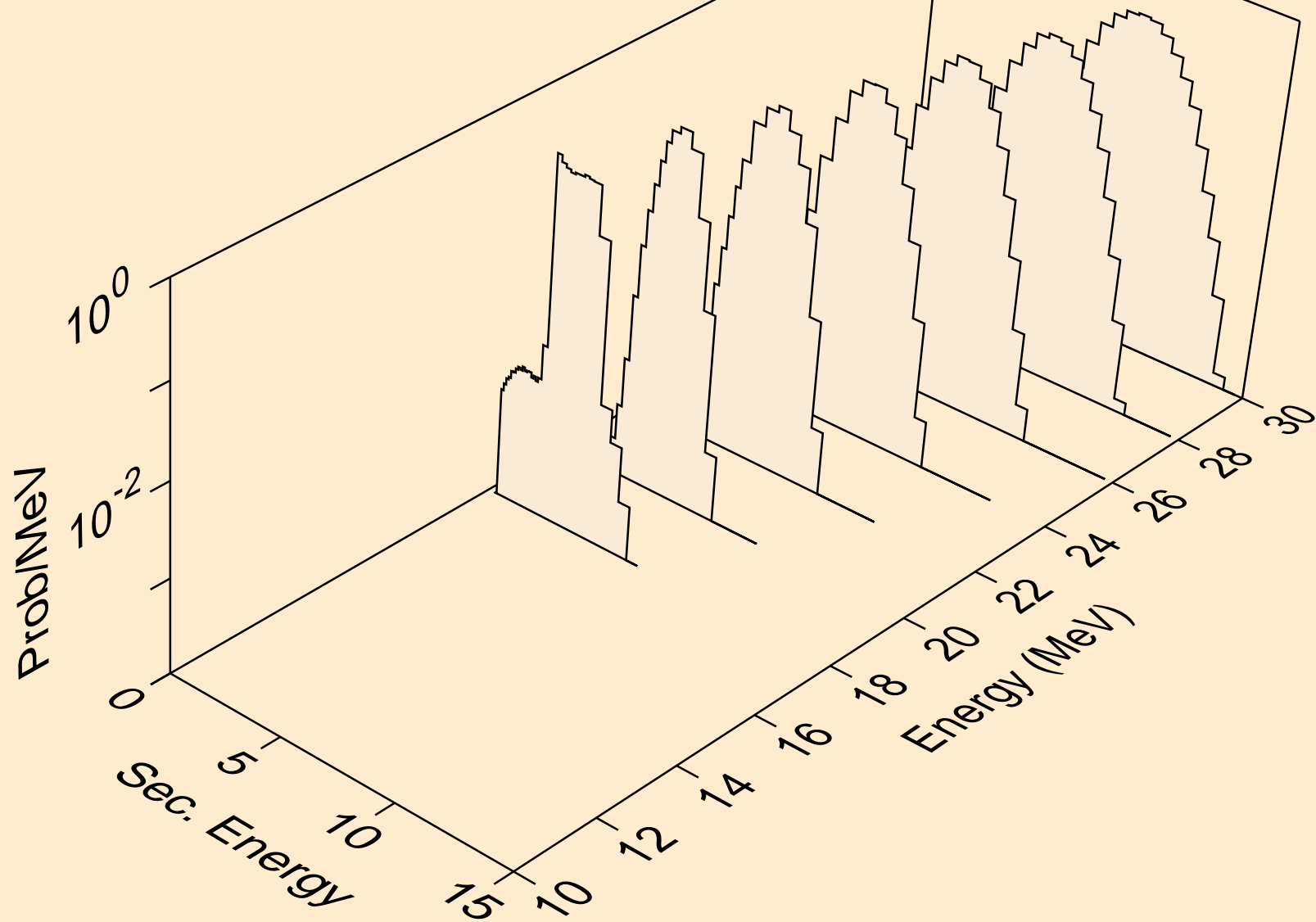
AT219 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Proton emission for (p,2np)



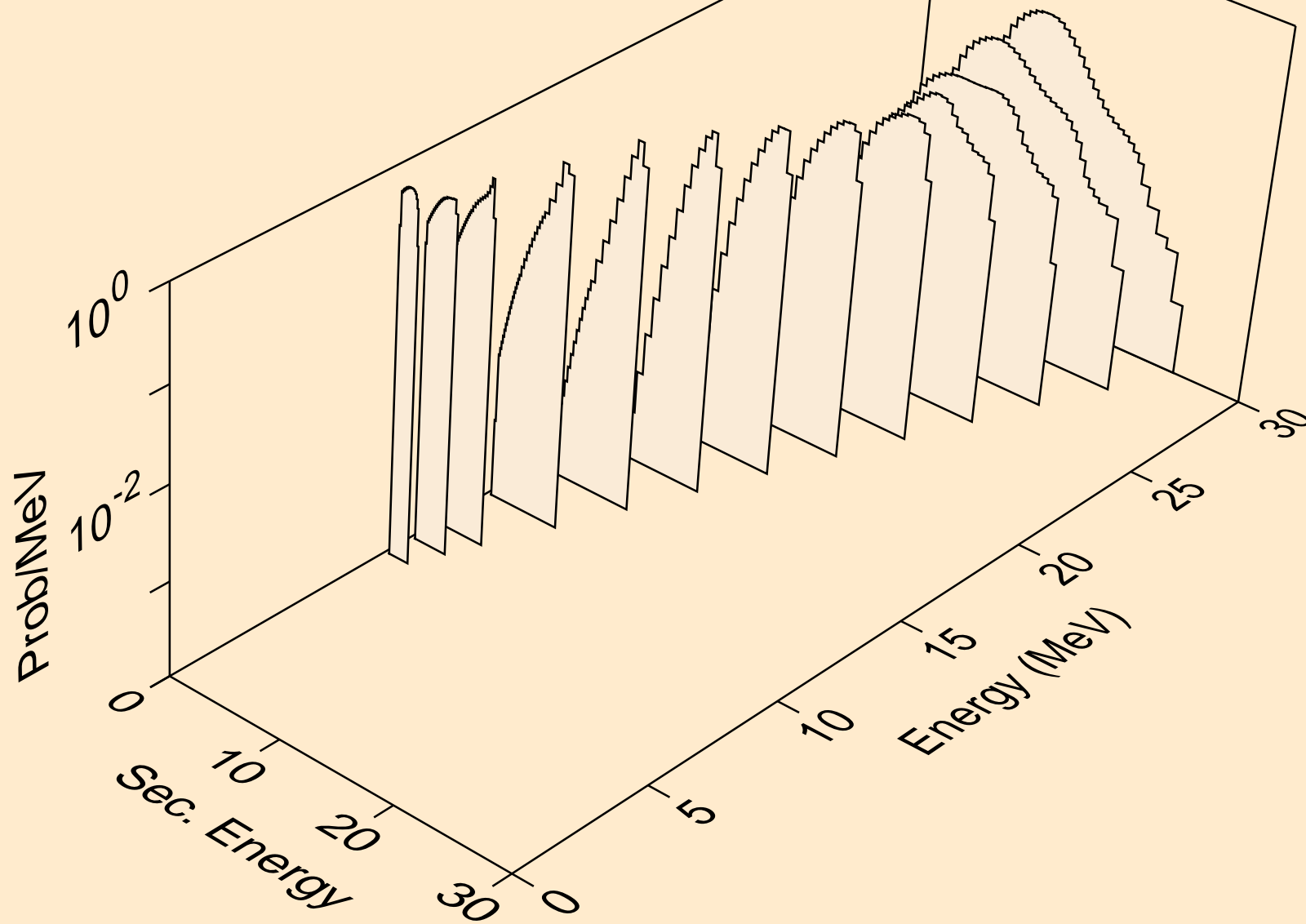
AT219 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Proton emission for (p,3np)



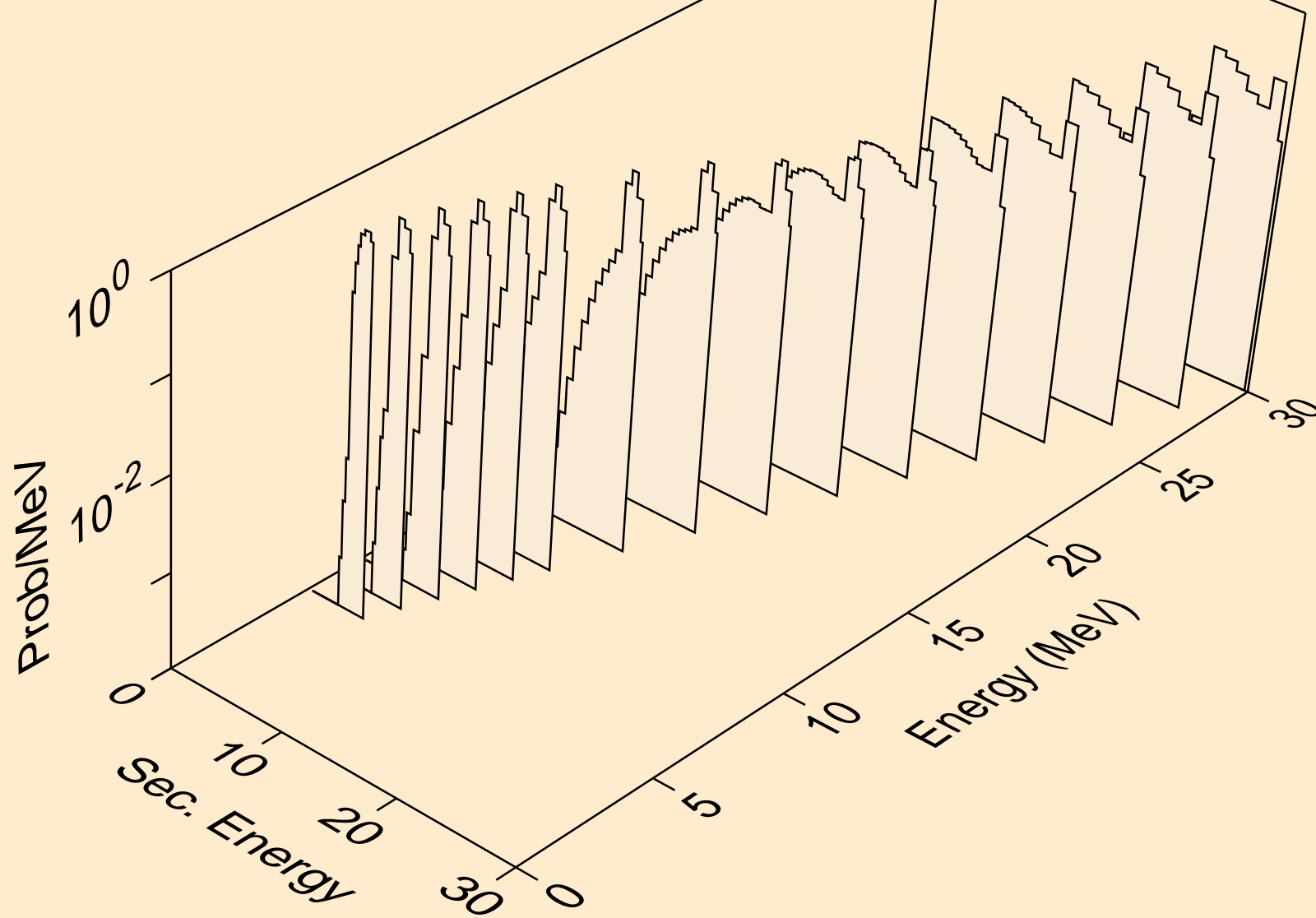
AT219 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Proton emission for (p,n2p)



AT219 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Proton emission for (p,npa)

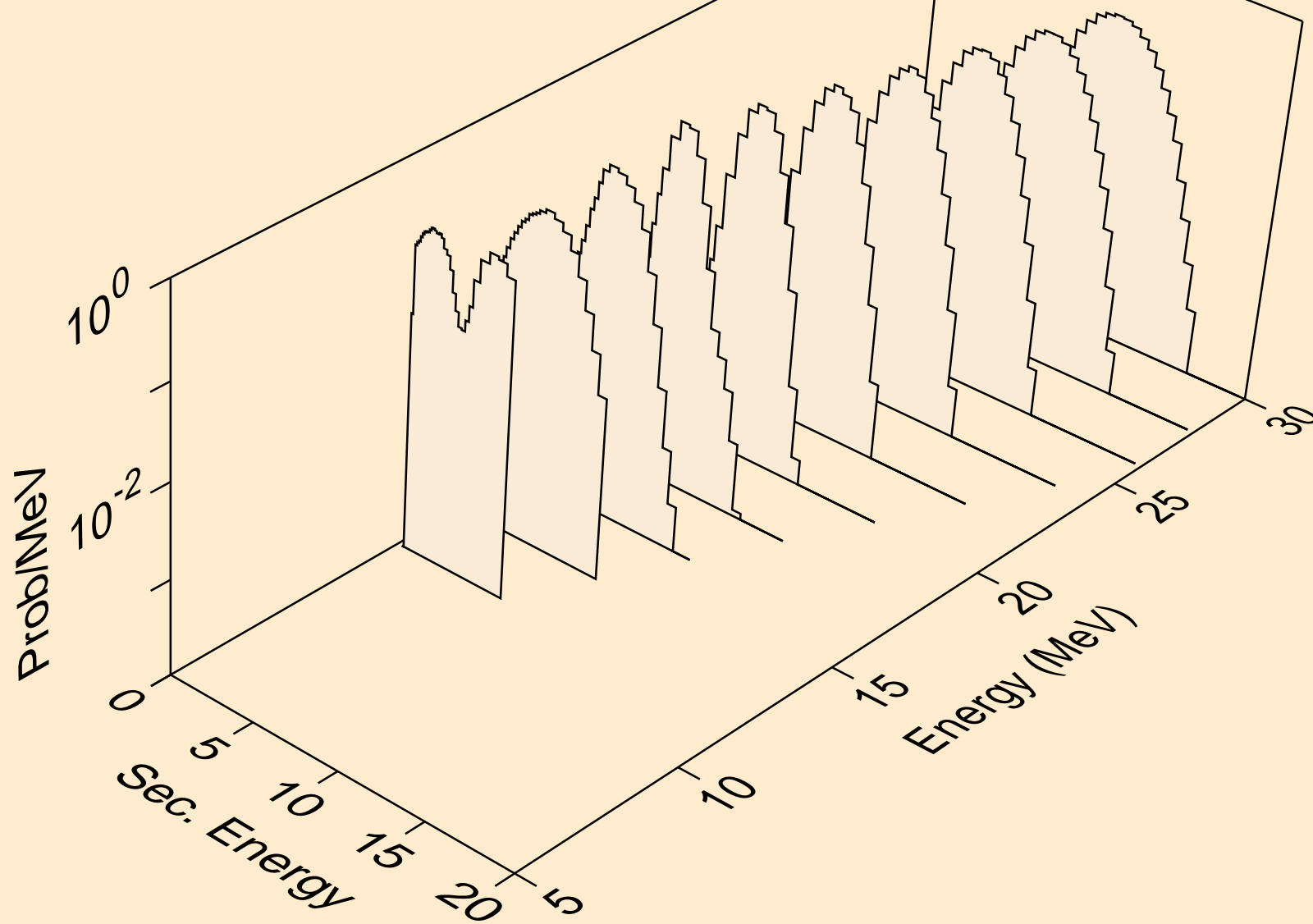


AT219 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Proton emission for inelastic

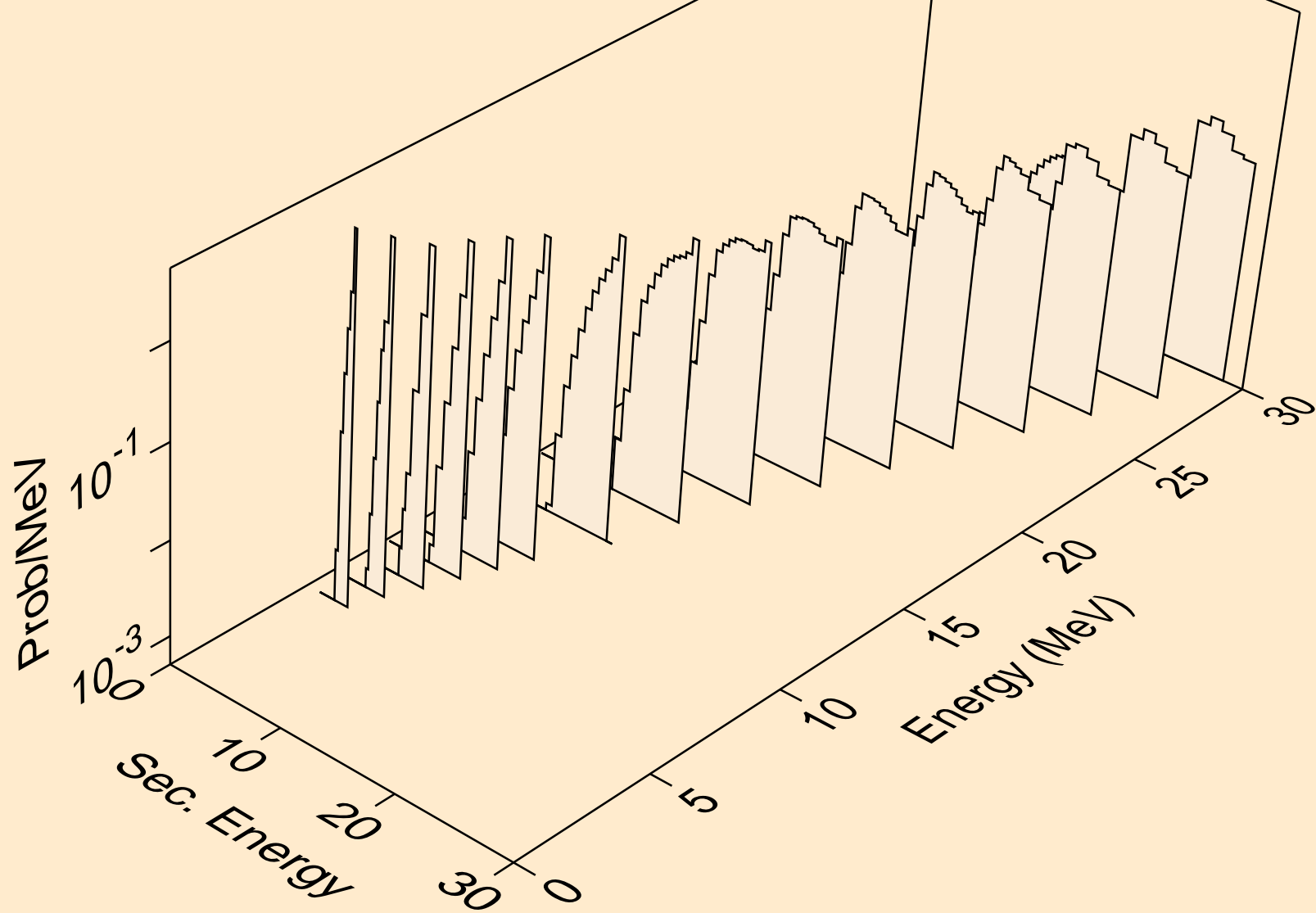




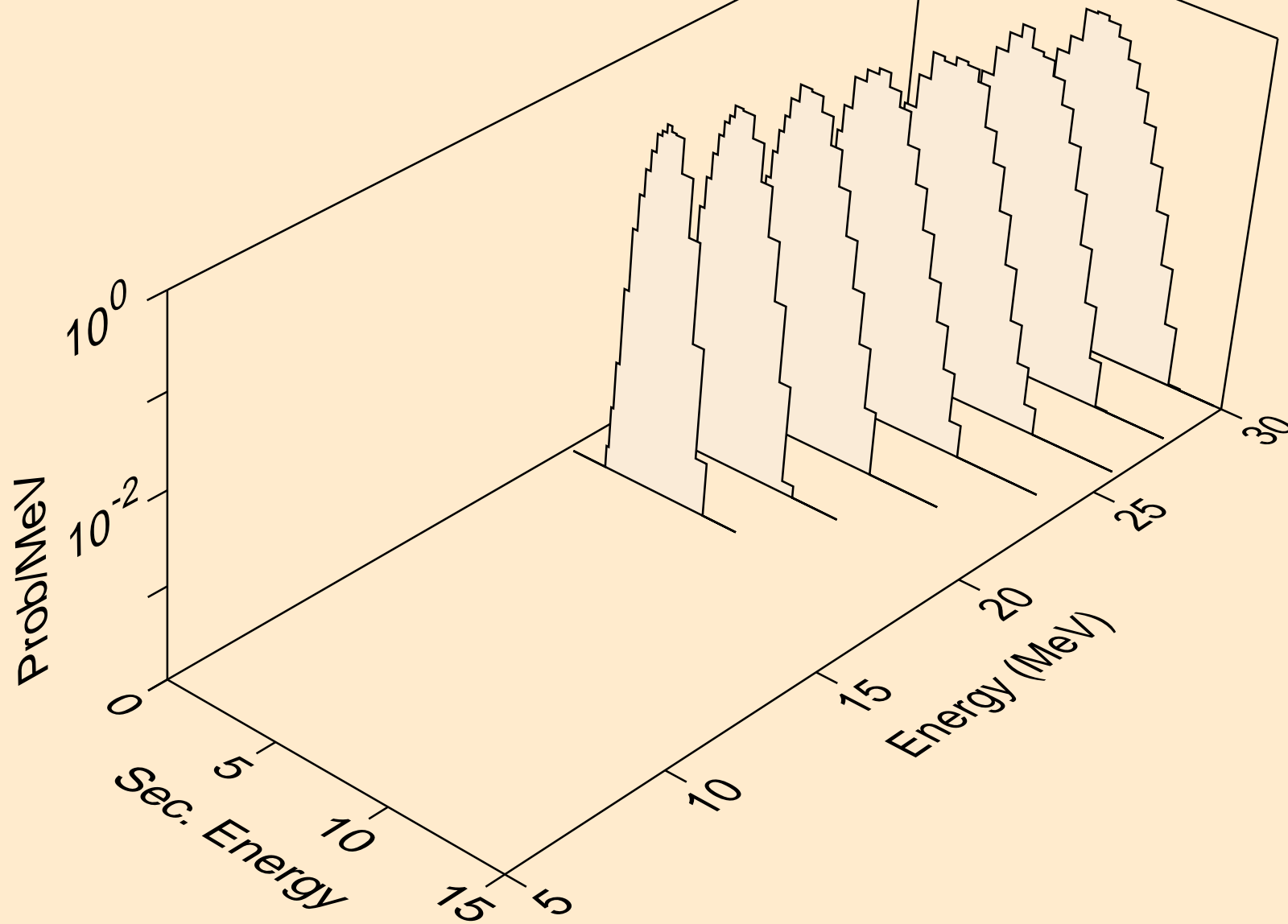
AT219 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Proton emission for (p,2p)



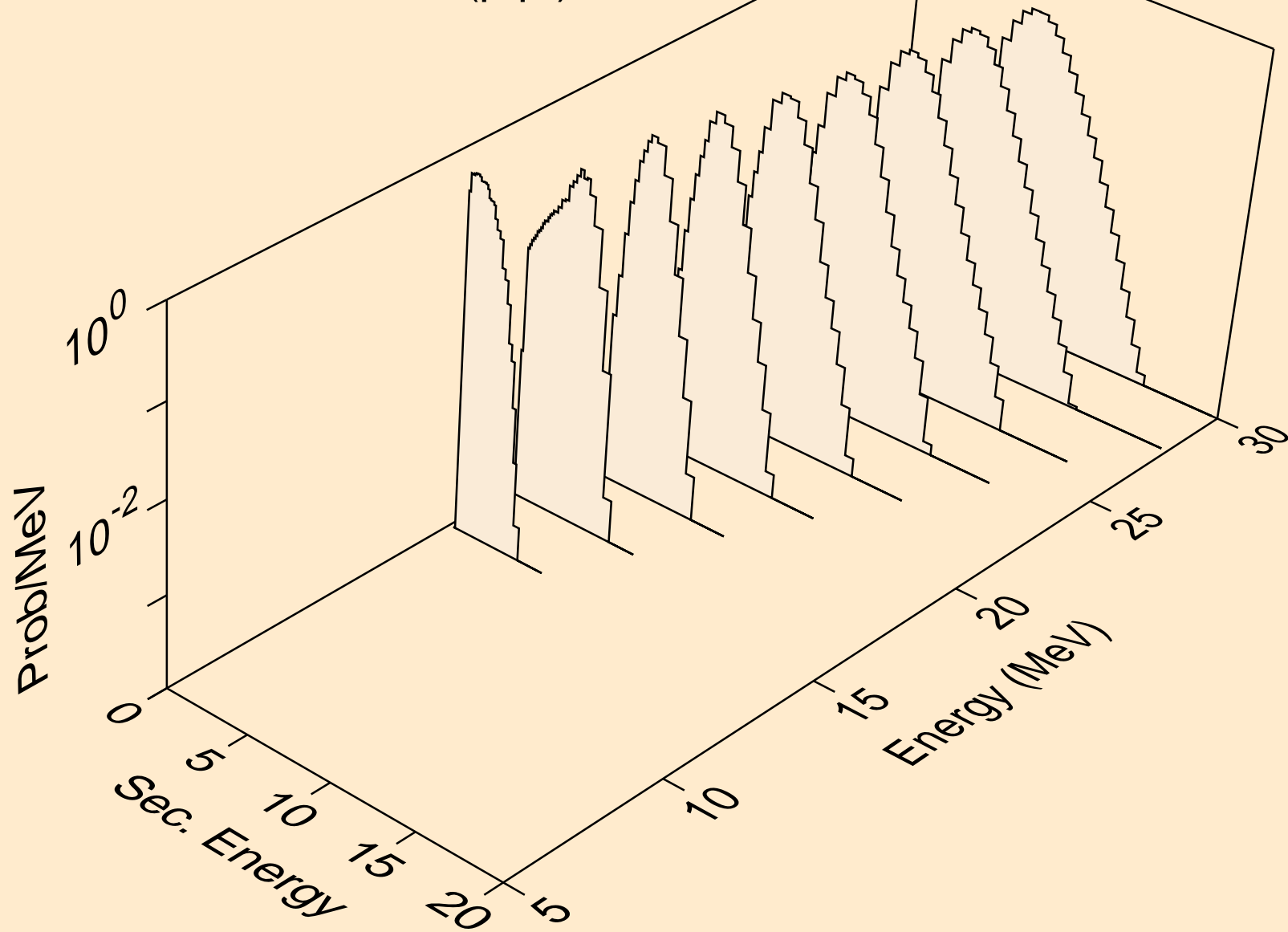
AT219 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Proton emission for (p,pa)



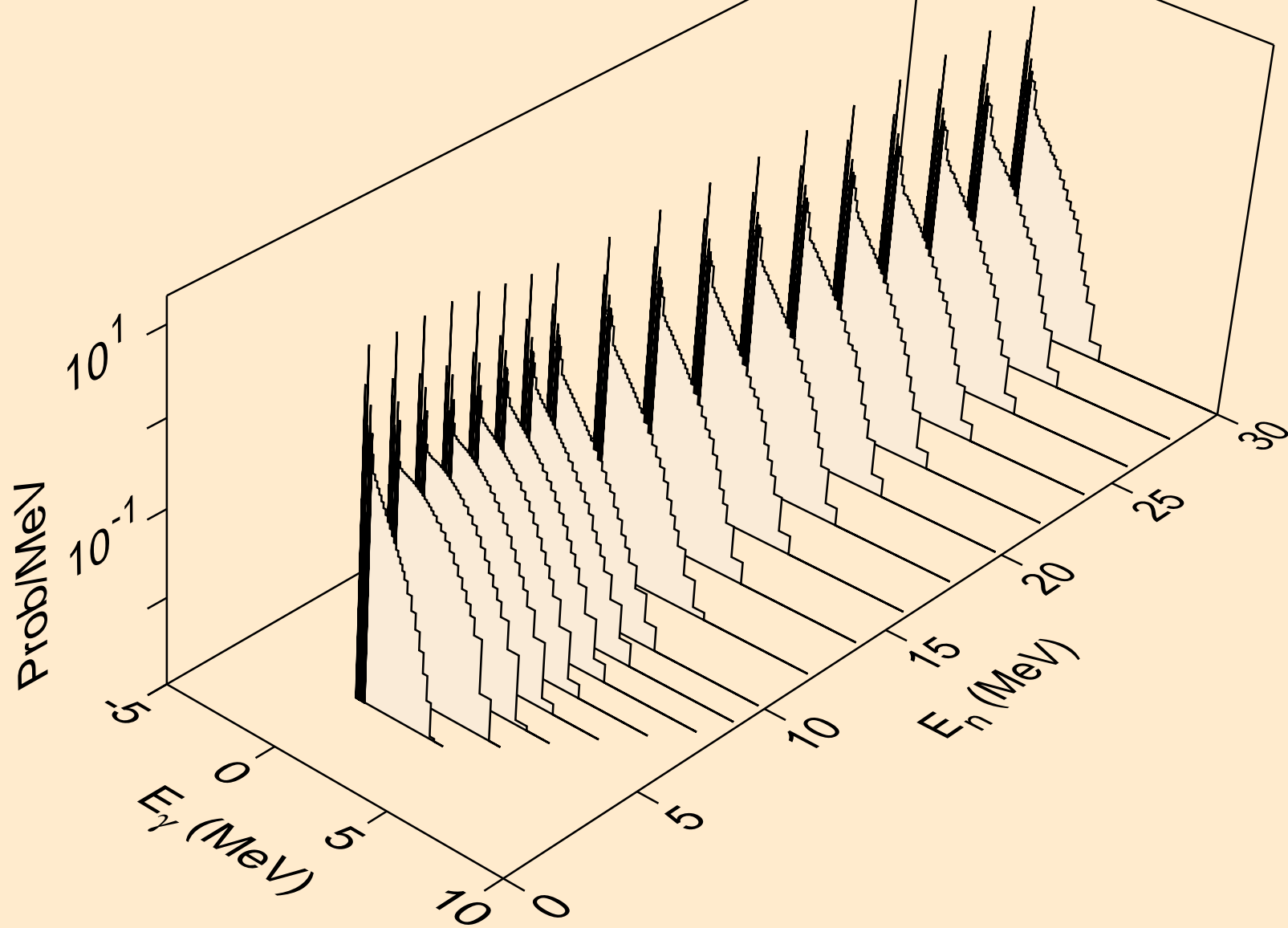
AT219 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Proton emission for (p,pd)



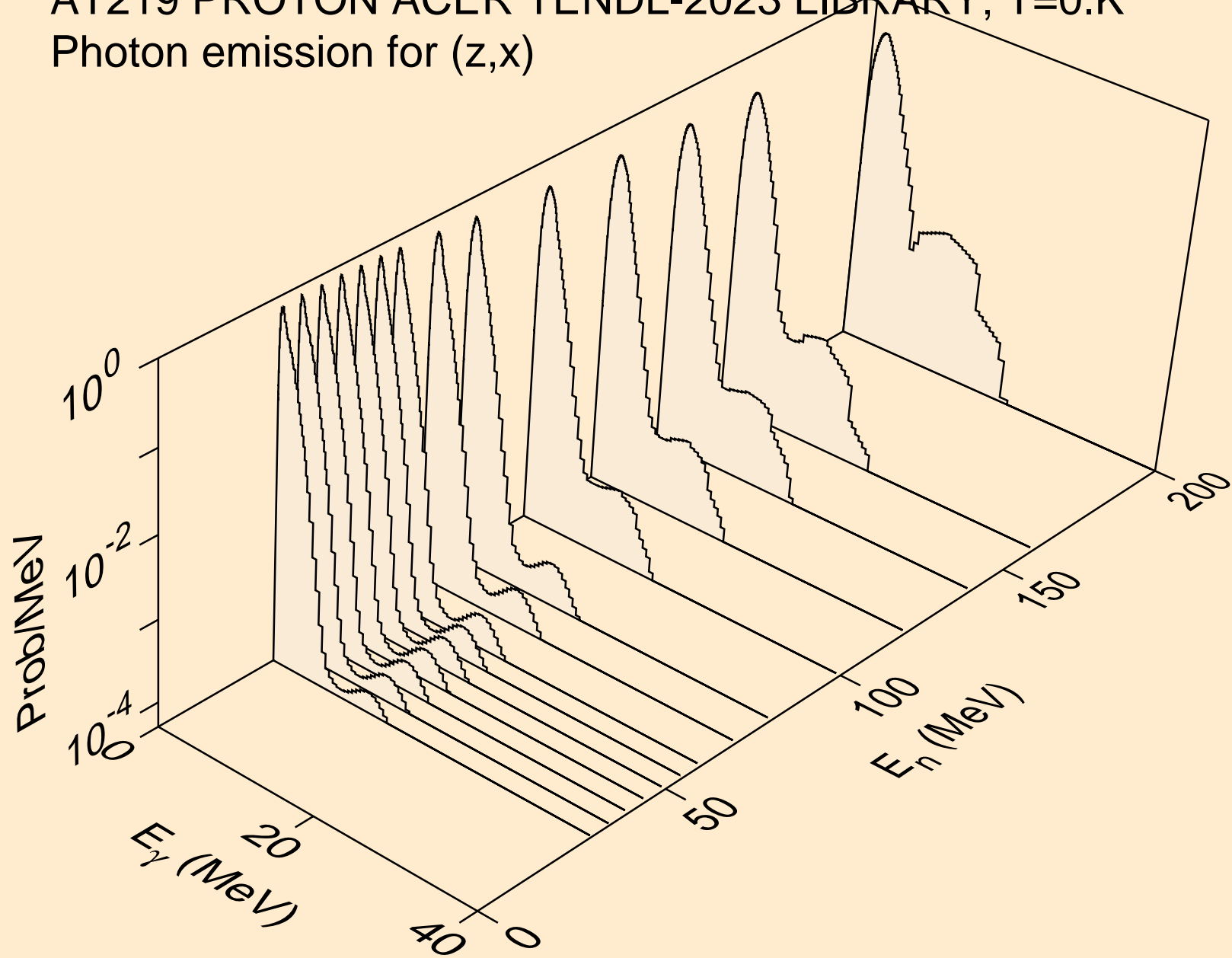
AT219 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Proton emission for (p,pt)



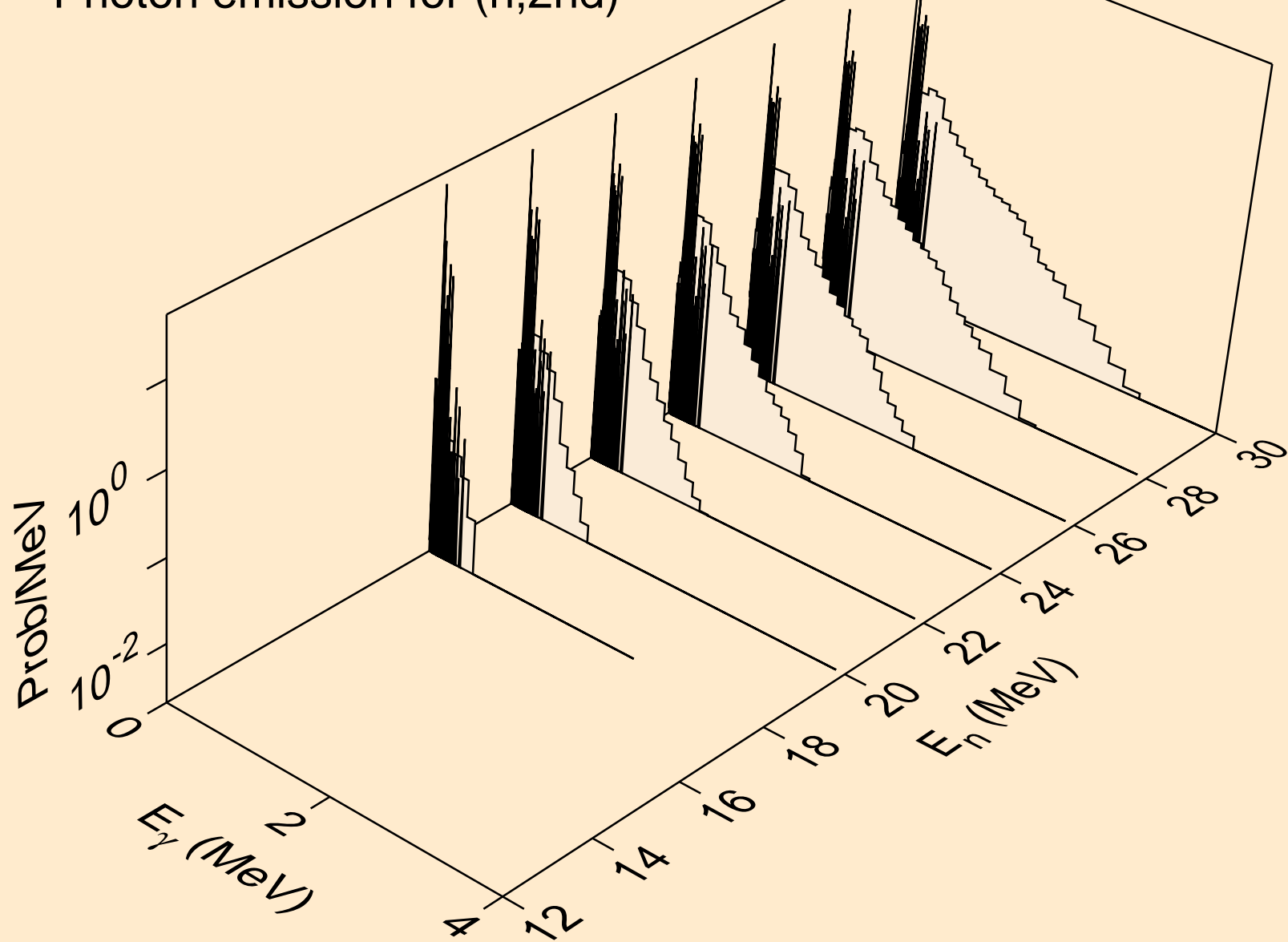
AT219 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (z,n)



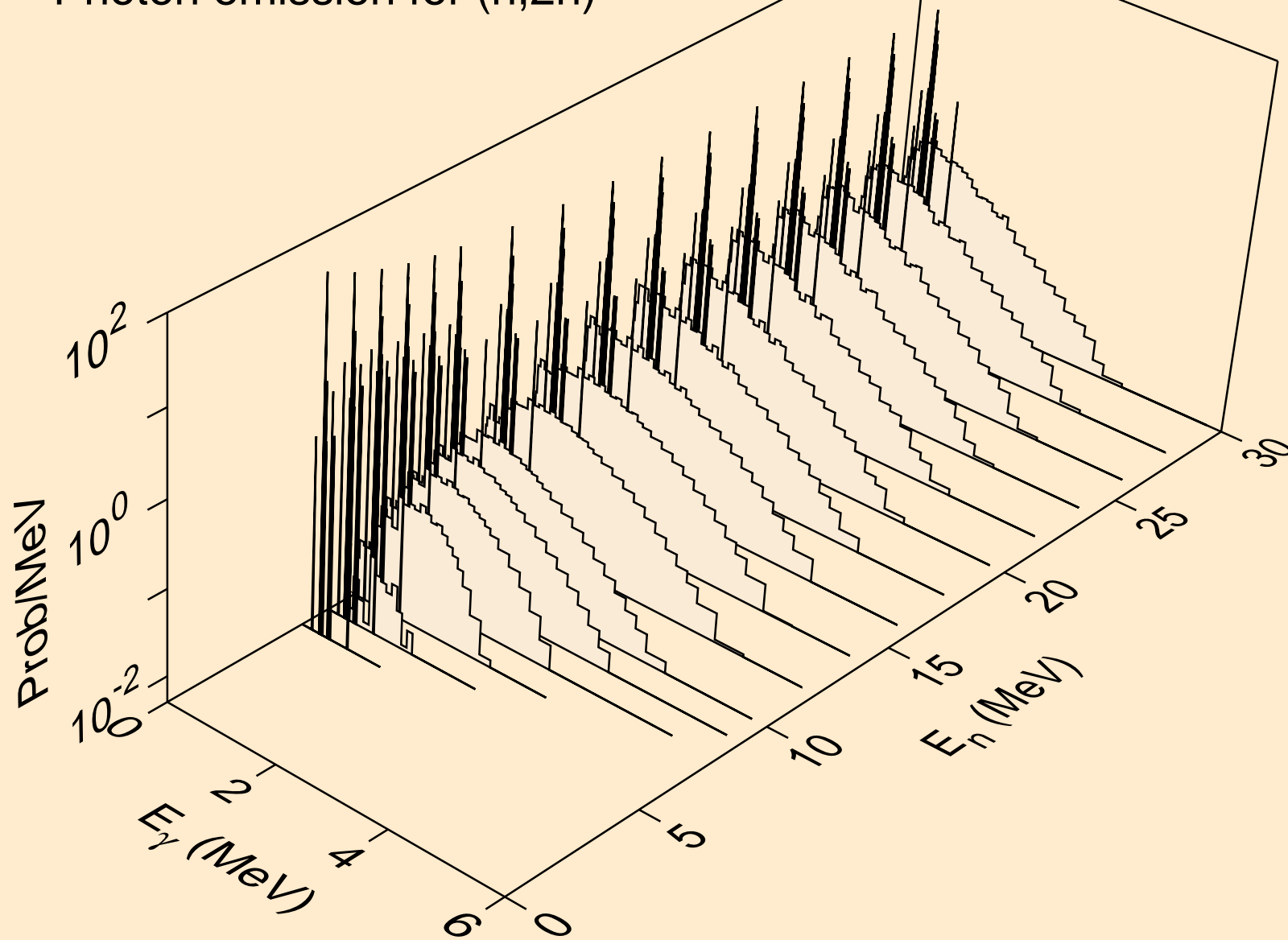
AT219 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (z,x)



AT219 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2nd)

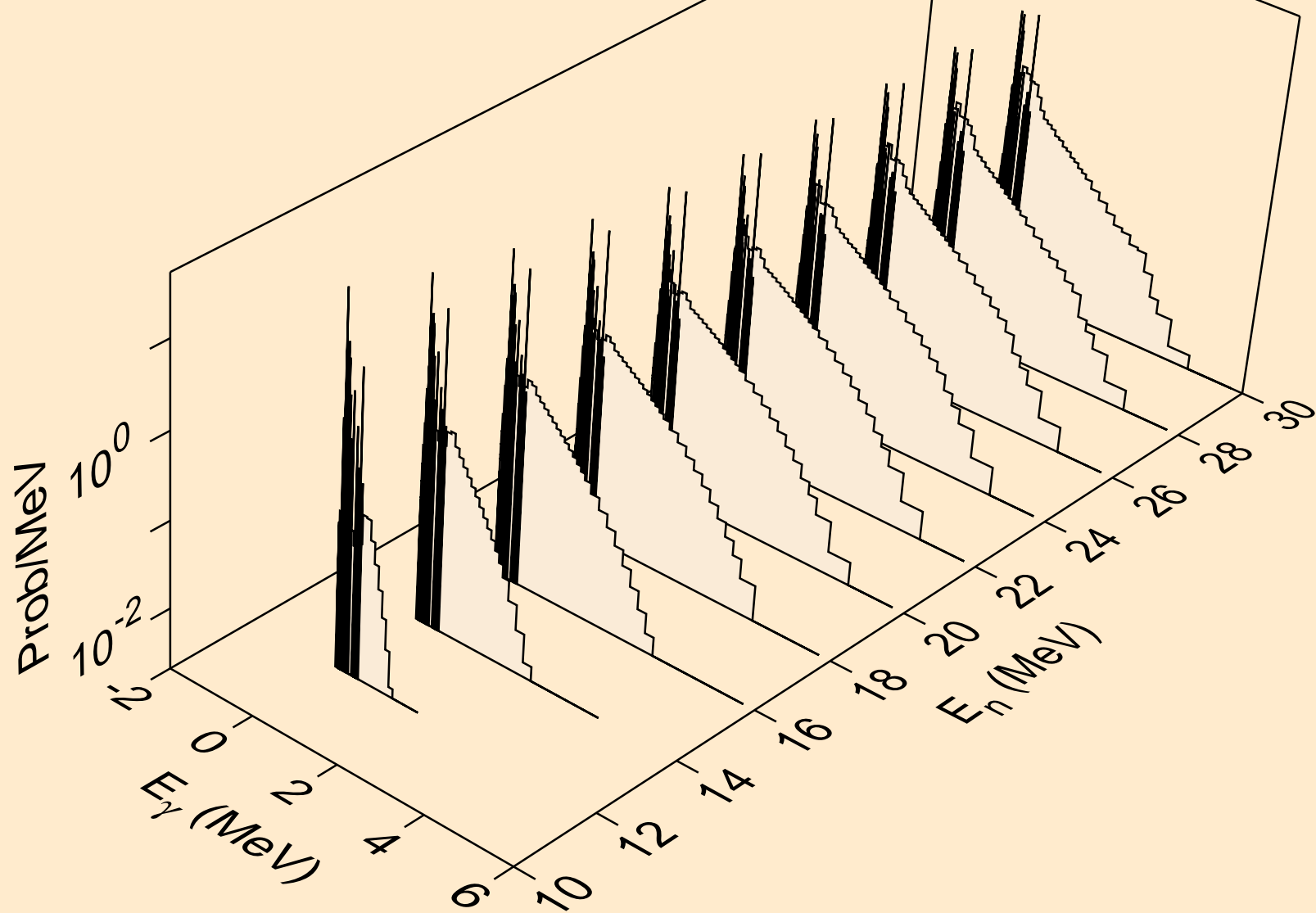


AT219 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2n)

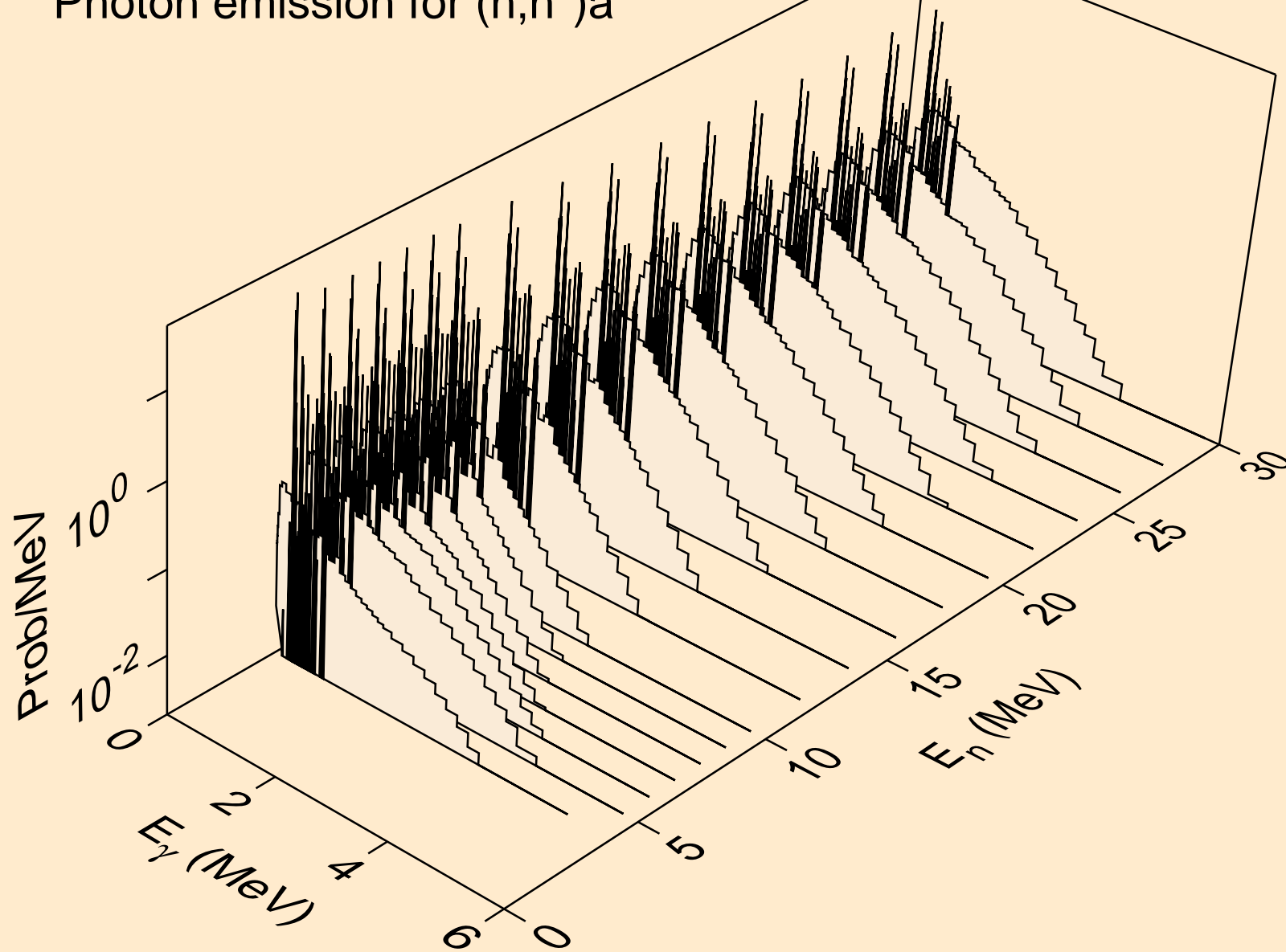




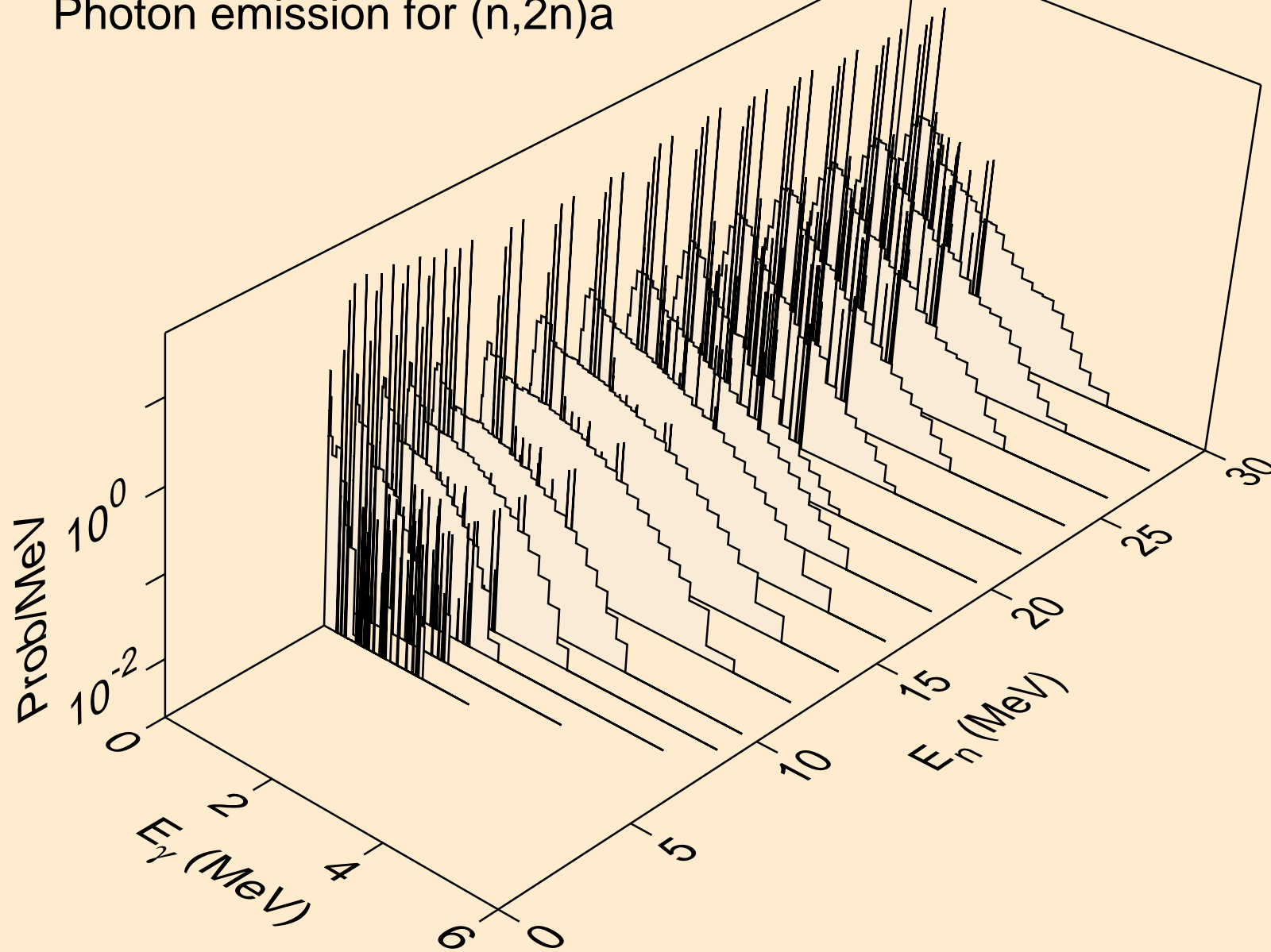
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Photon emission for (n,3n)



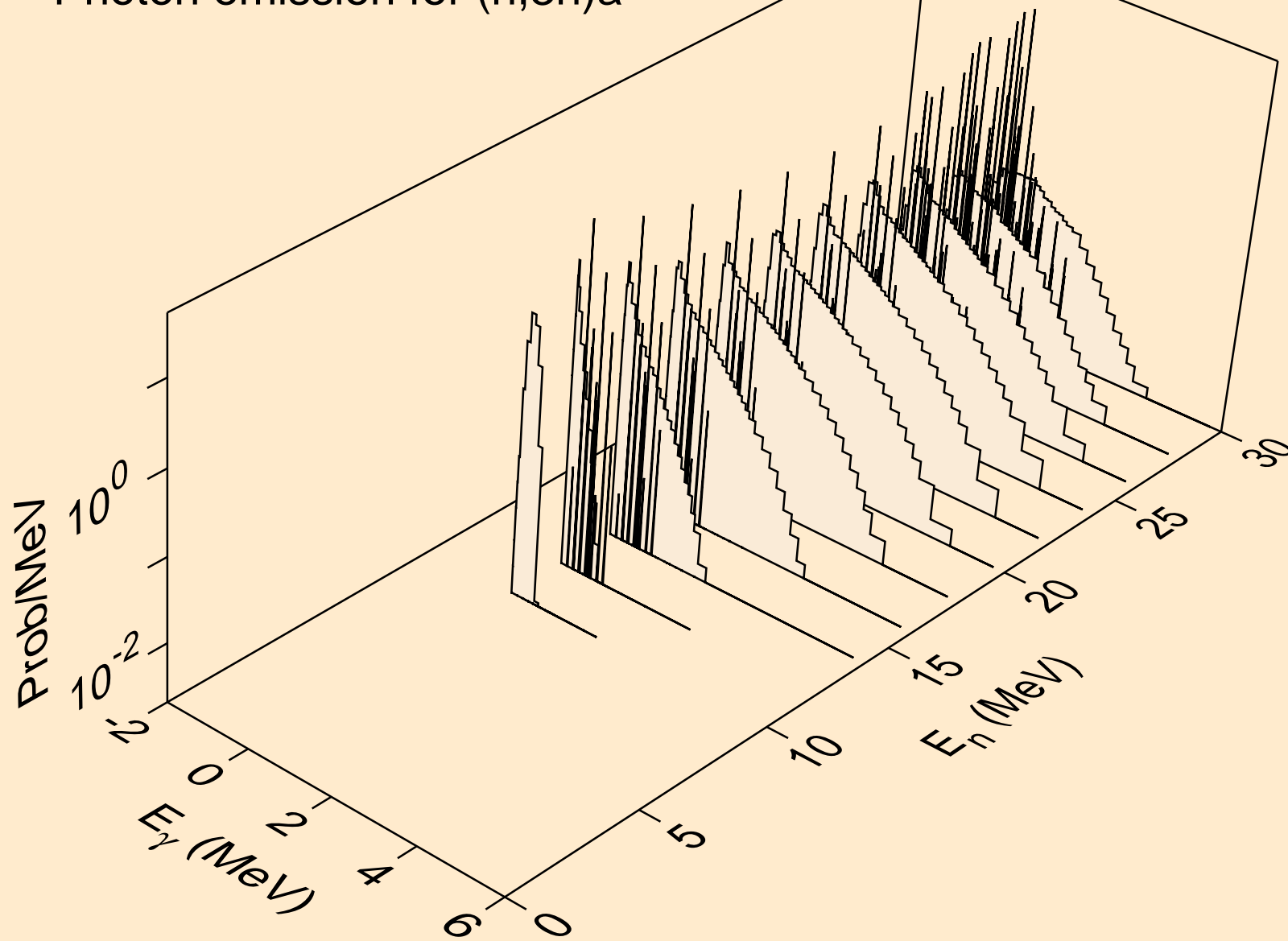
AT219 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)a



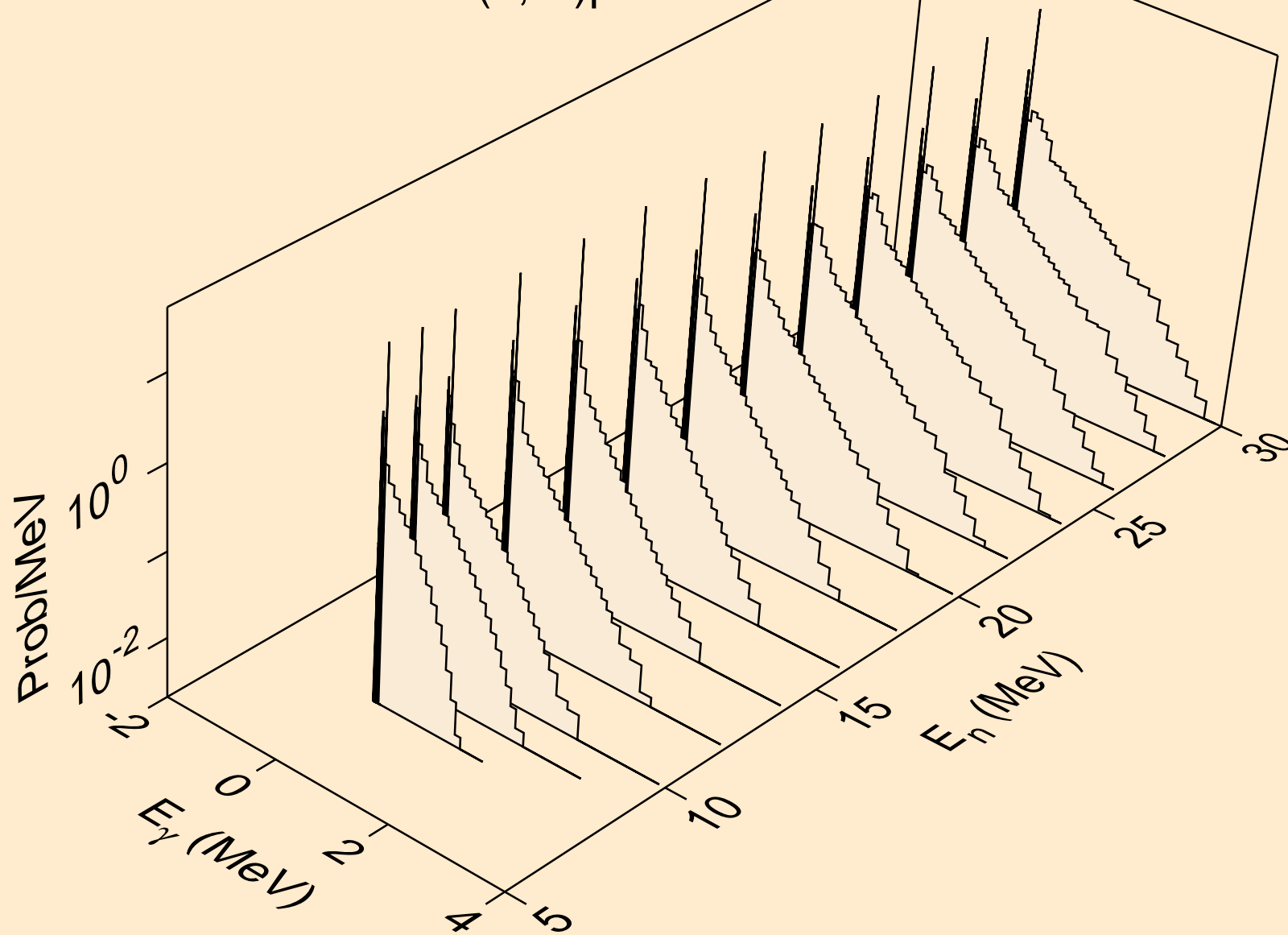
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Photon emission for (n,2n)a



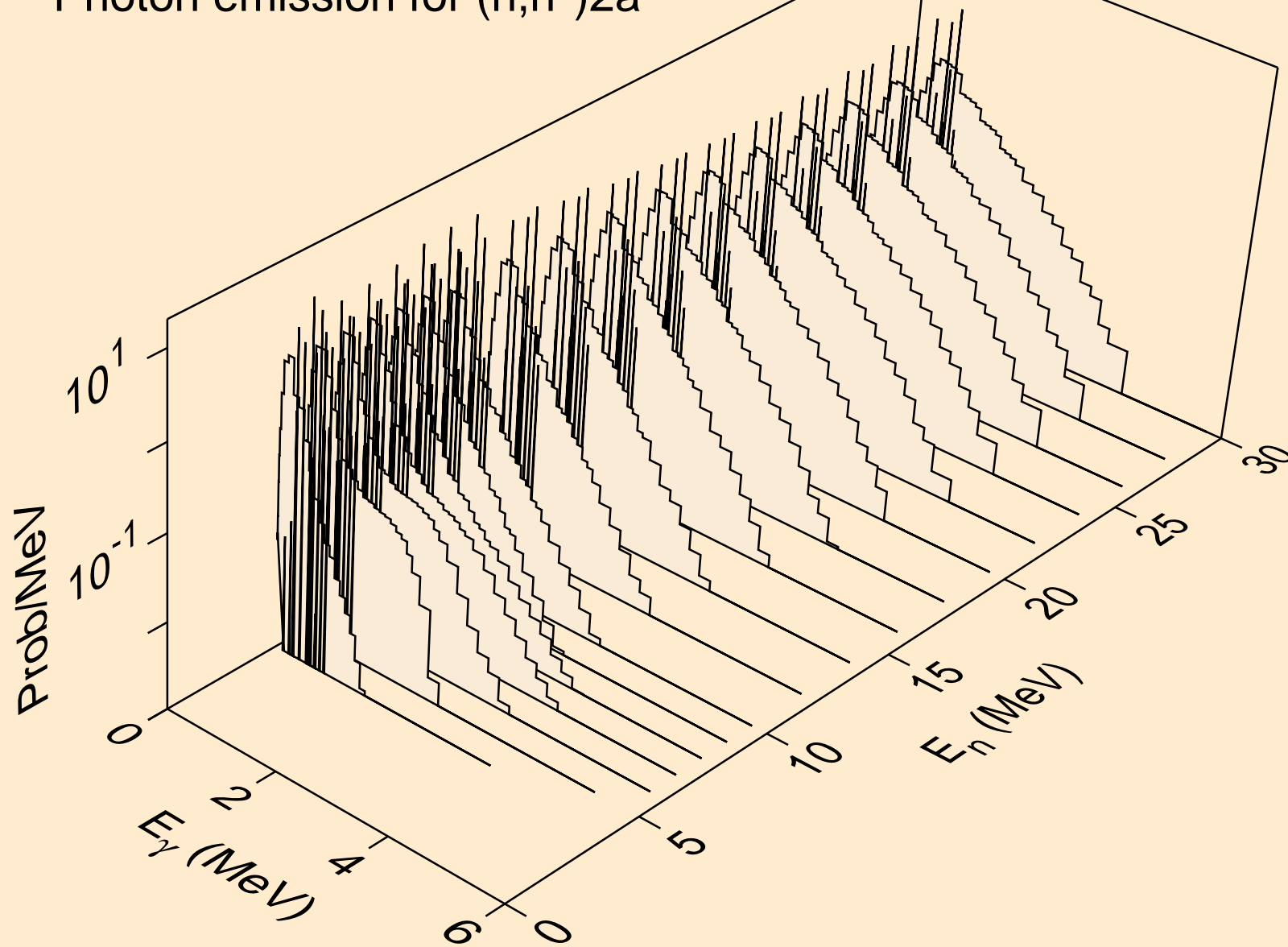
AT219 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,3n)a



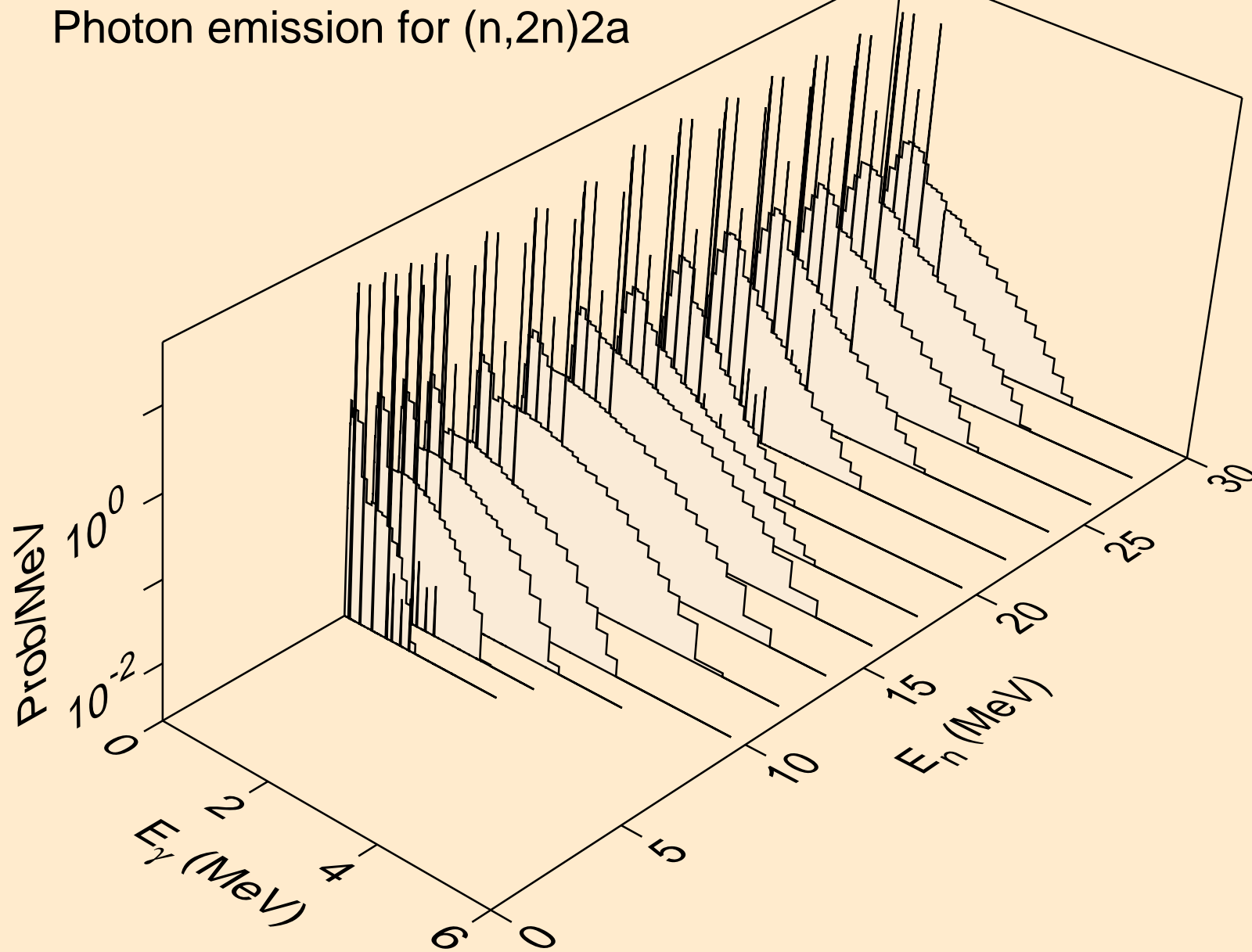
AT219 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)p



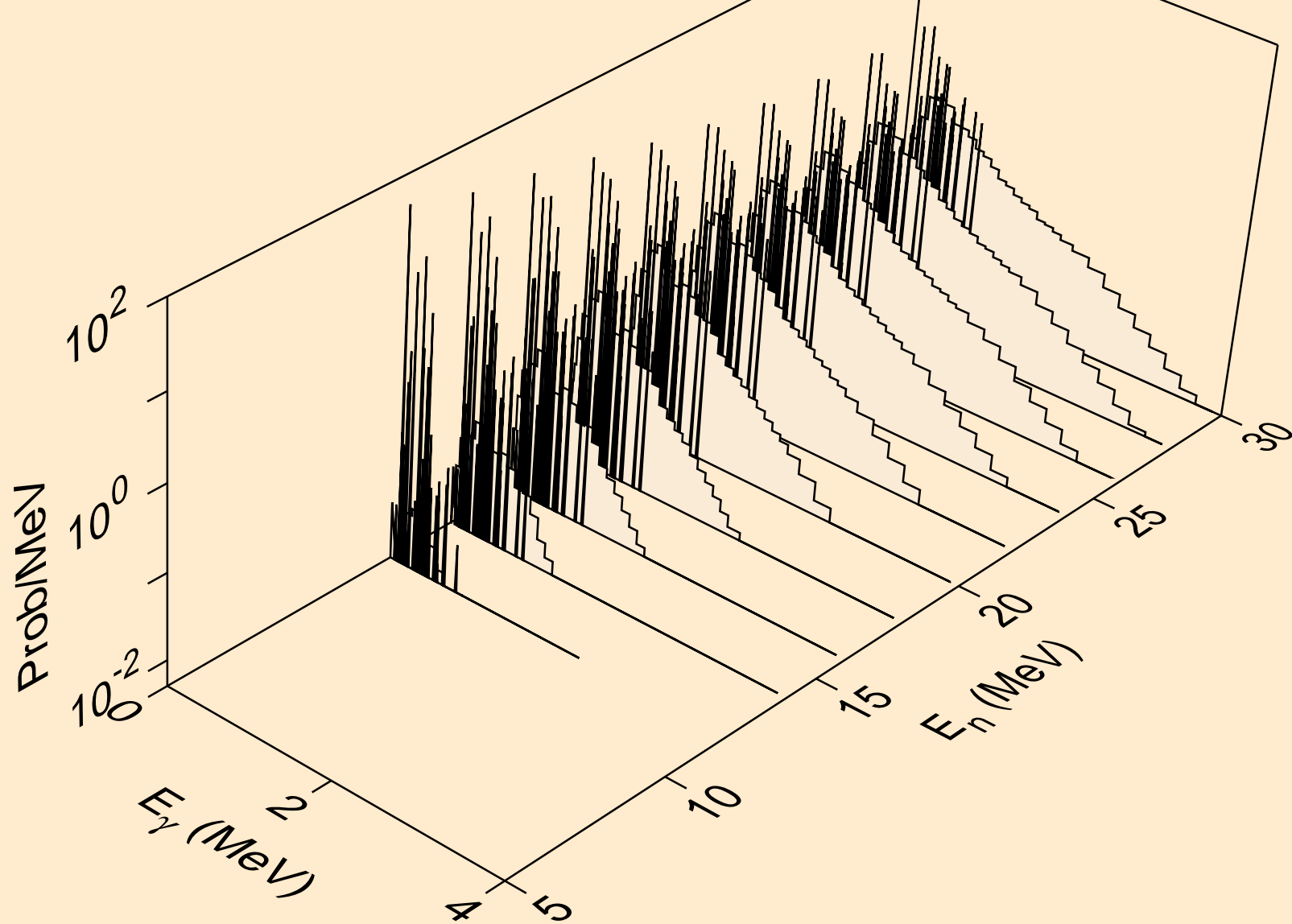
AT219 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)2a



AT219 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2n)2a

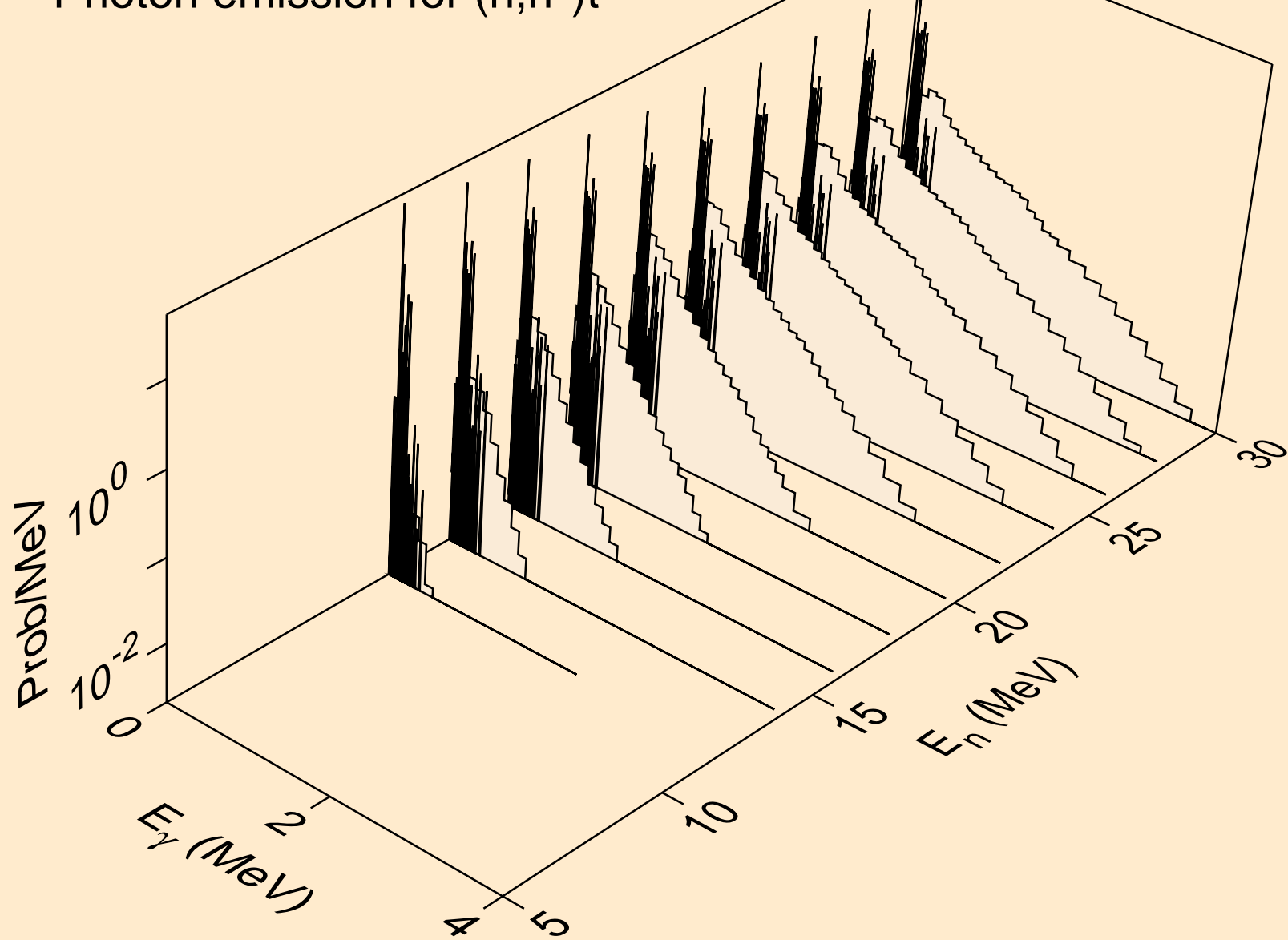


AT219 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)d

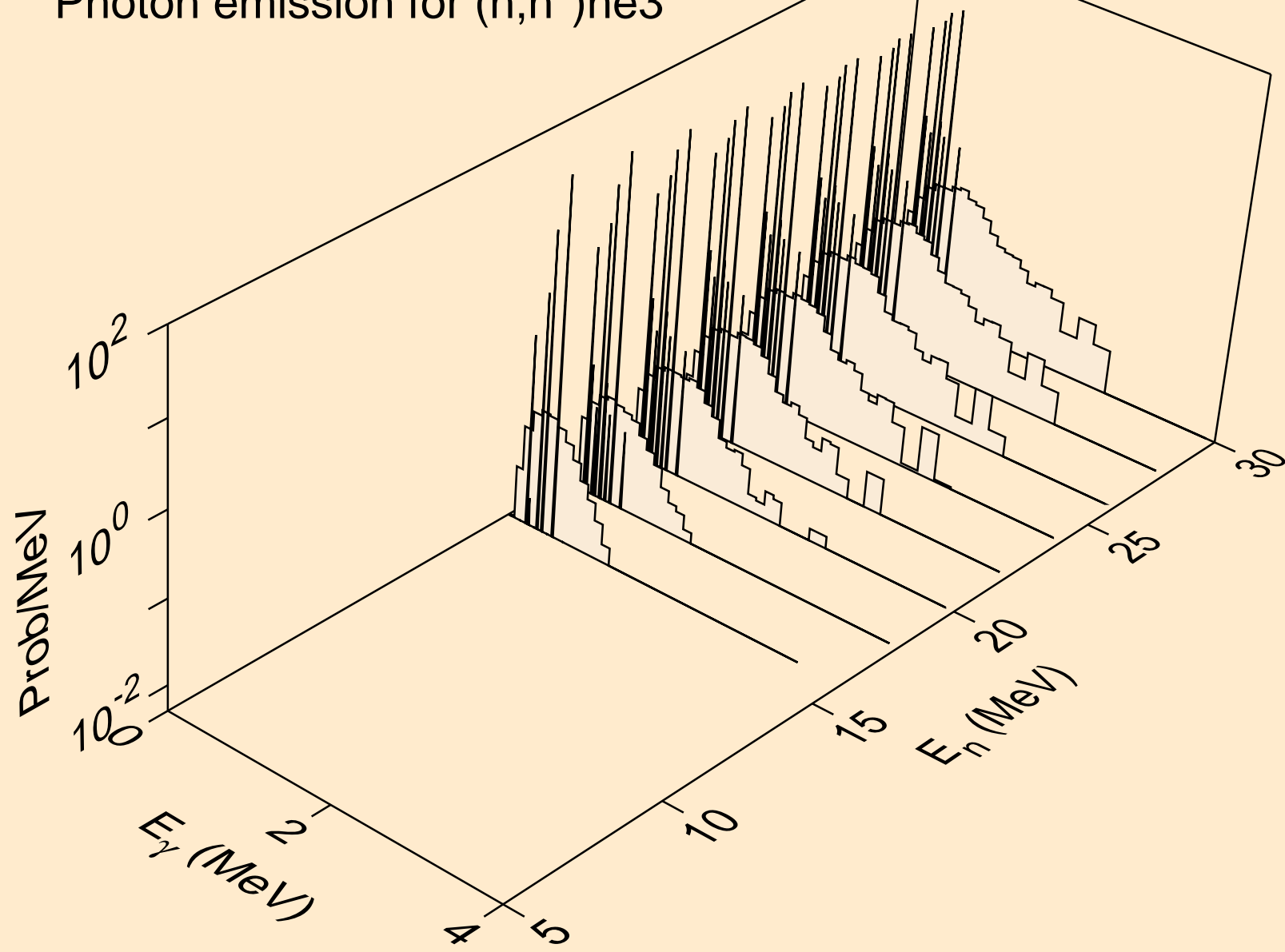




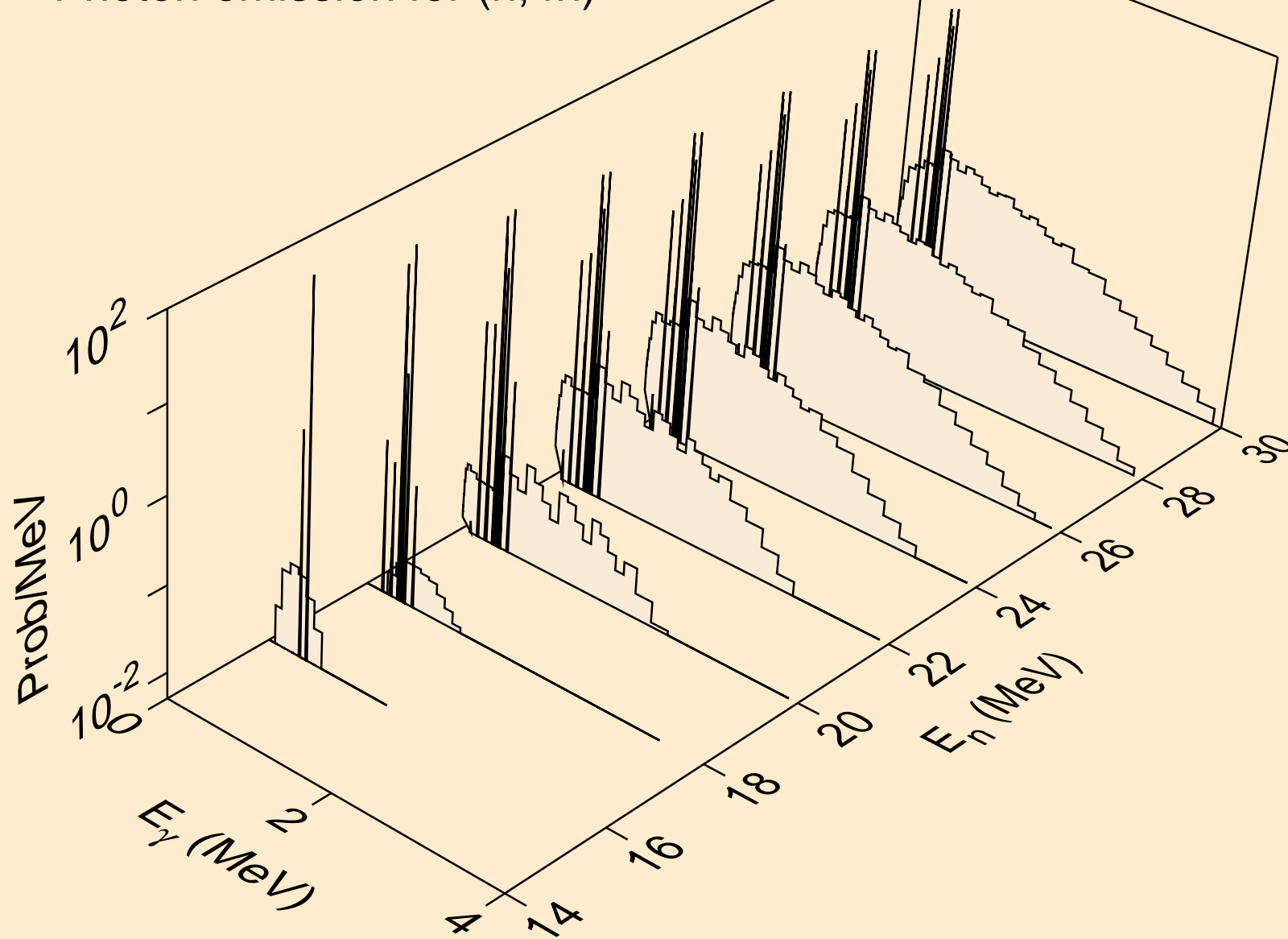
AT219 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)t



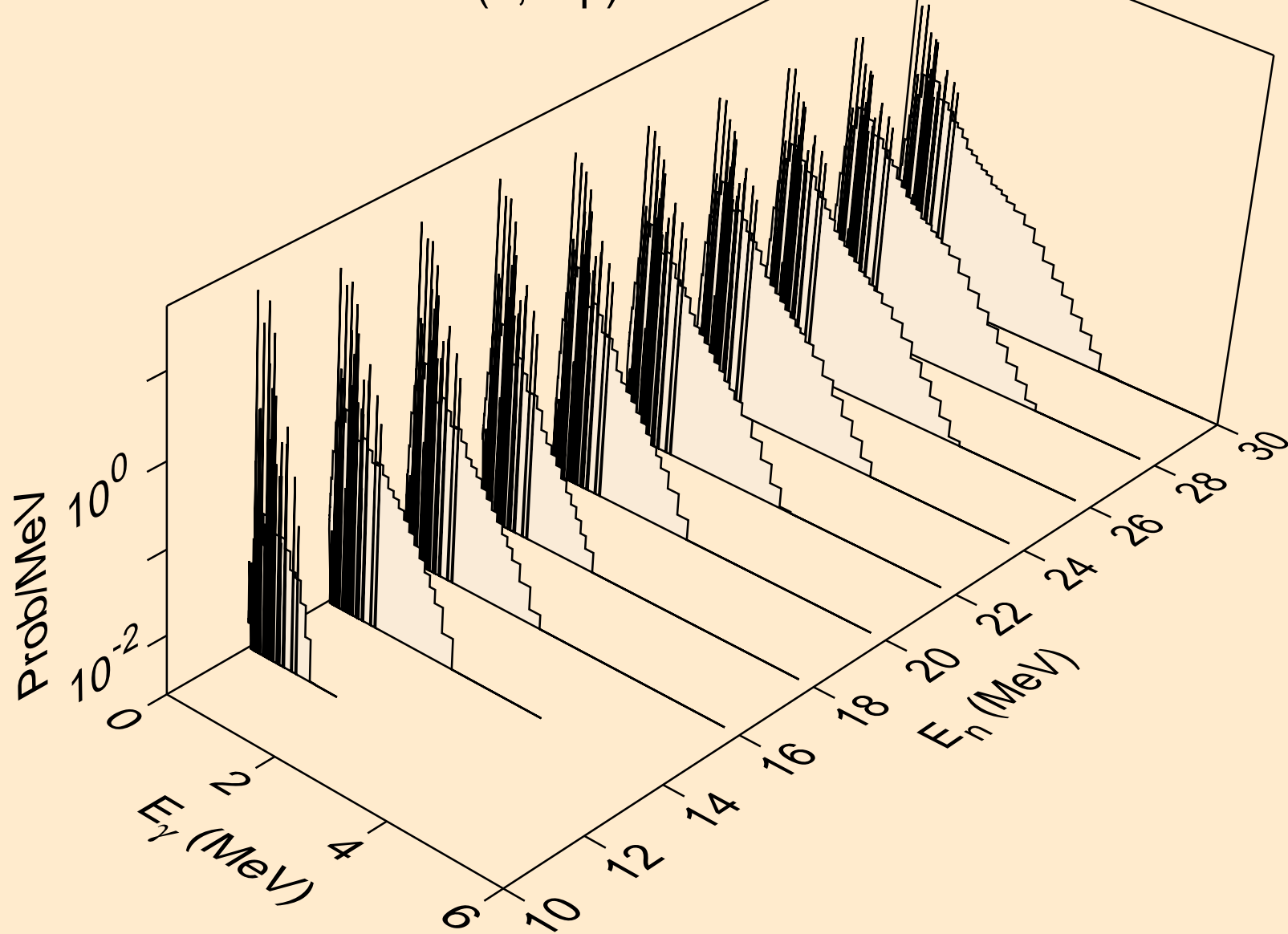
AT219 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)he3



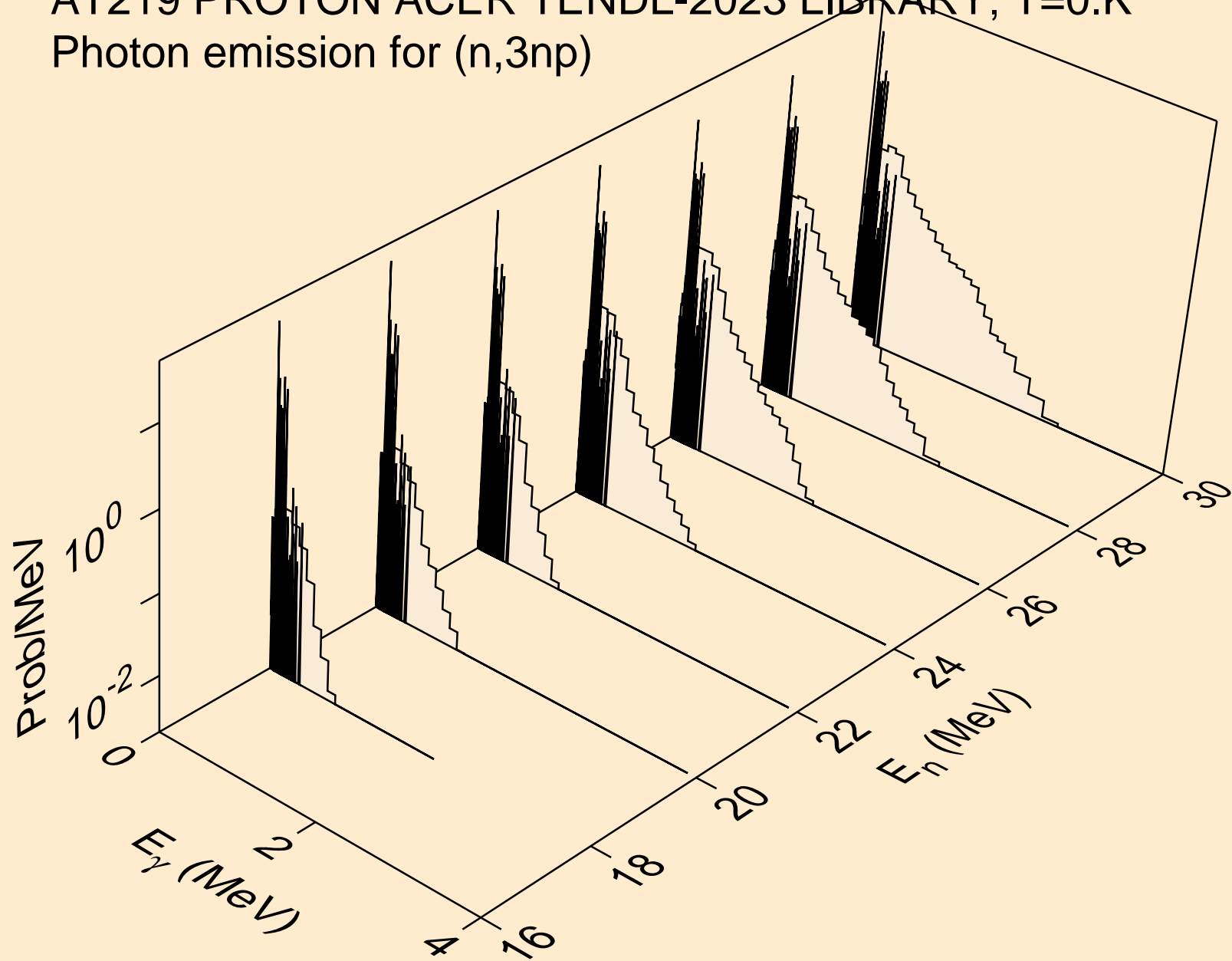
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Photon emission for (n,4n)



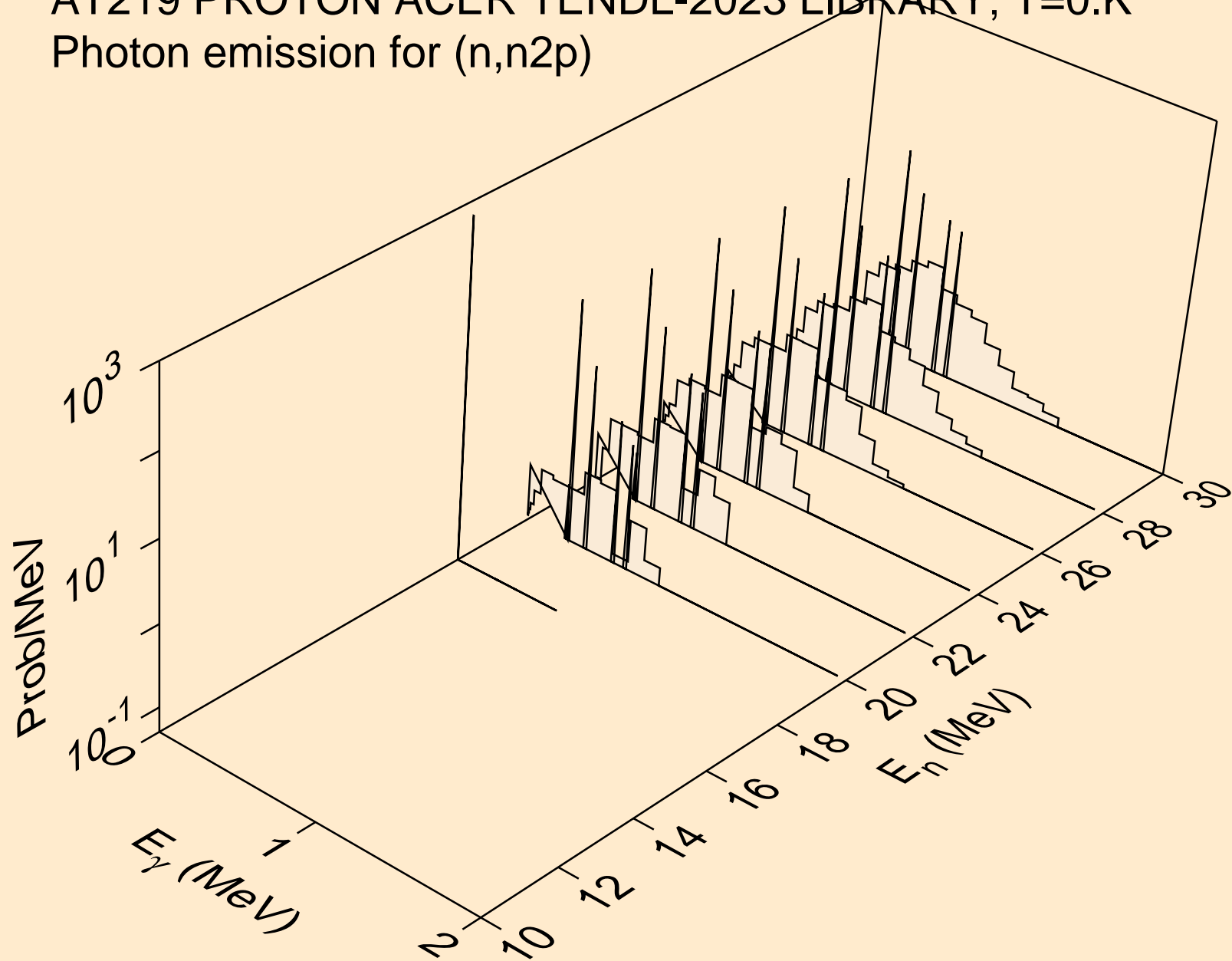
AT219 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2np)



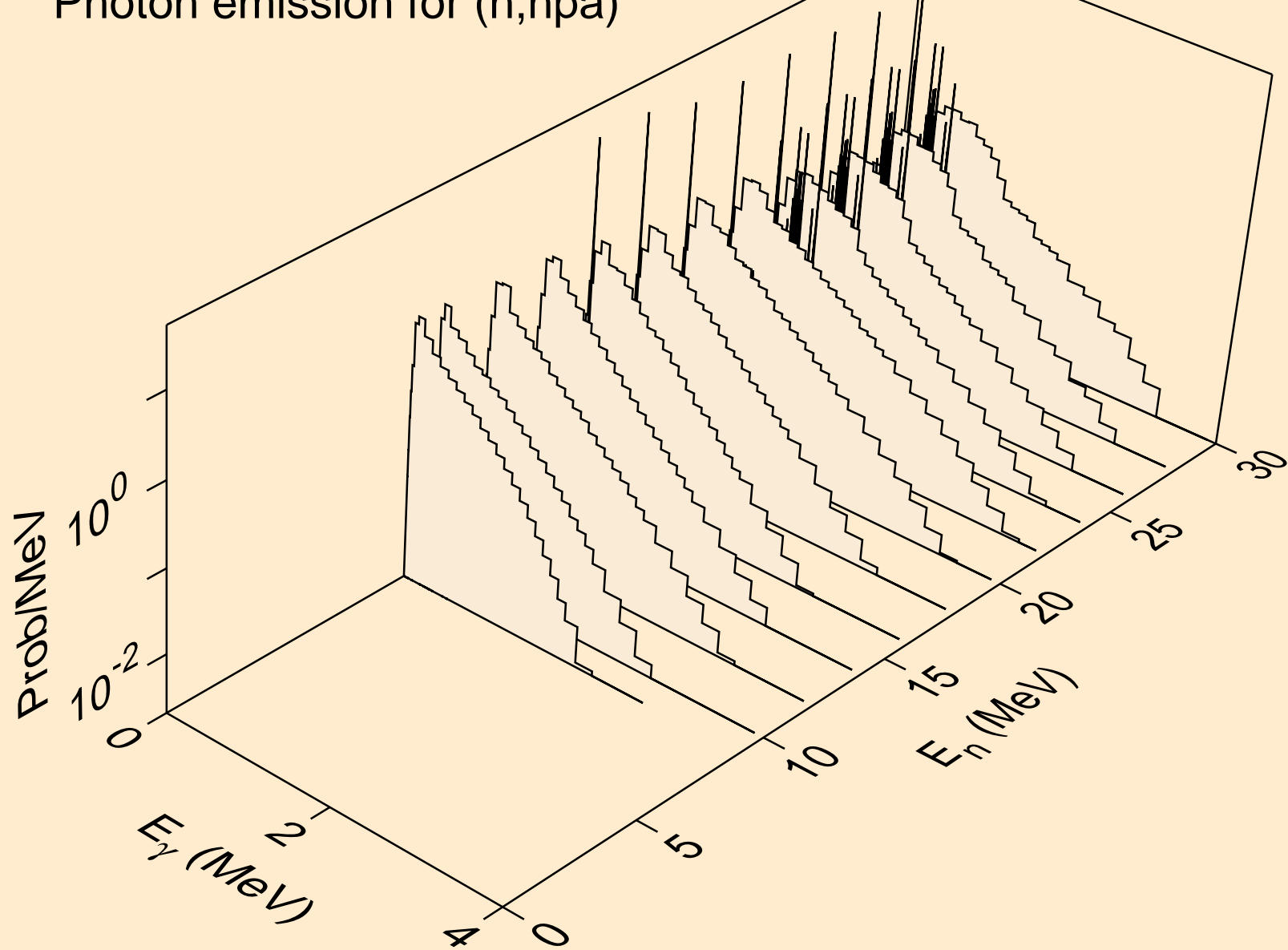
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Photon emission for (n,3np)



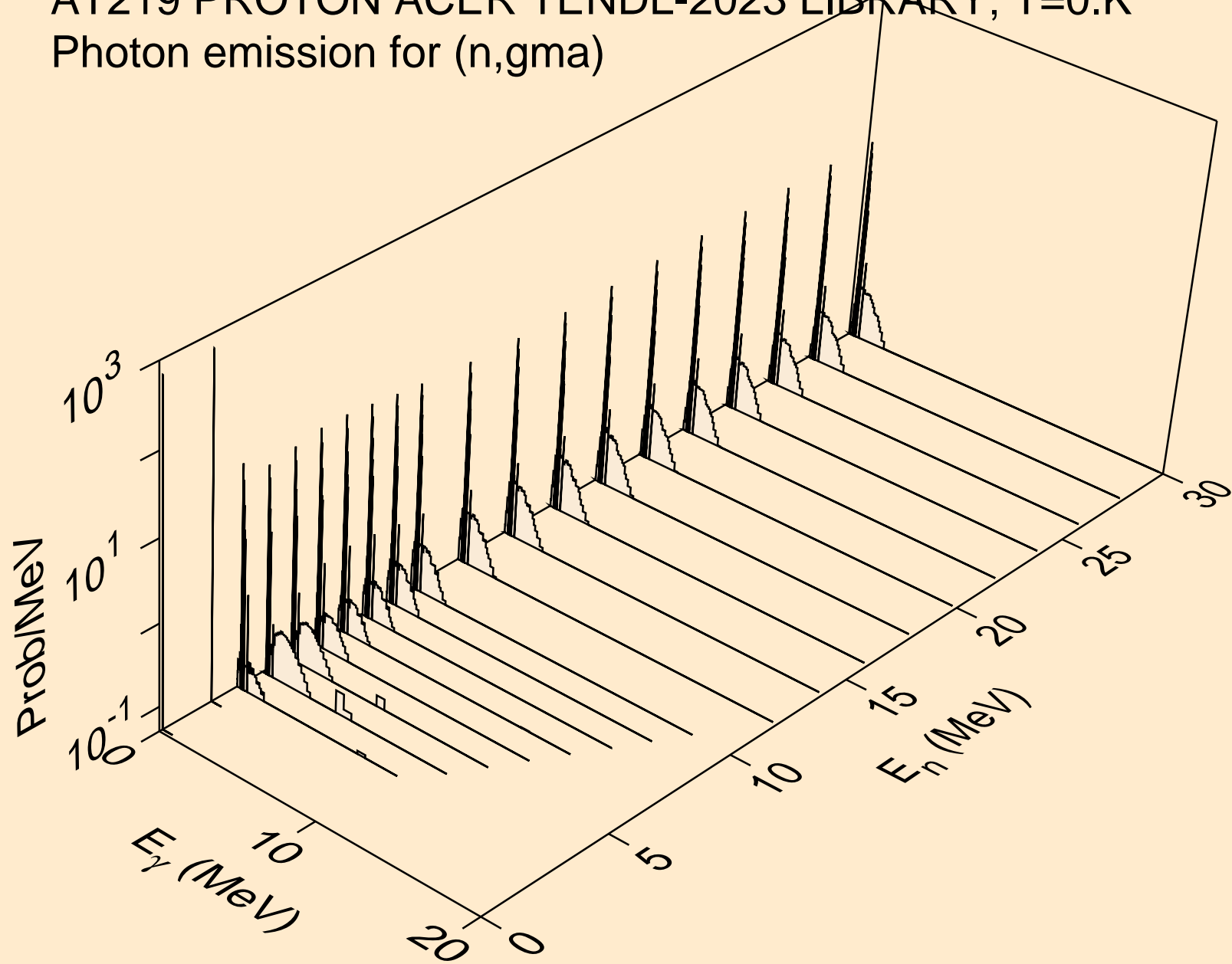
AT219 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n2p)



AT219 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,npa)

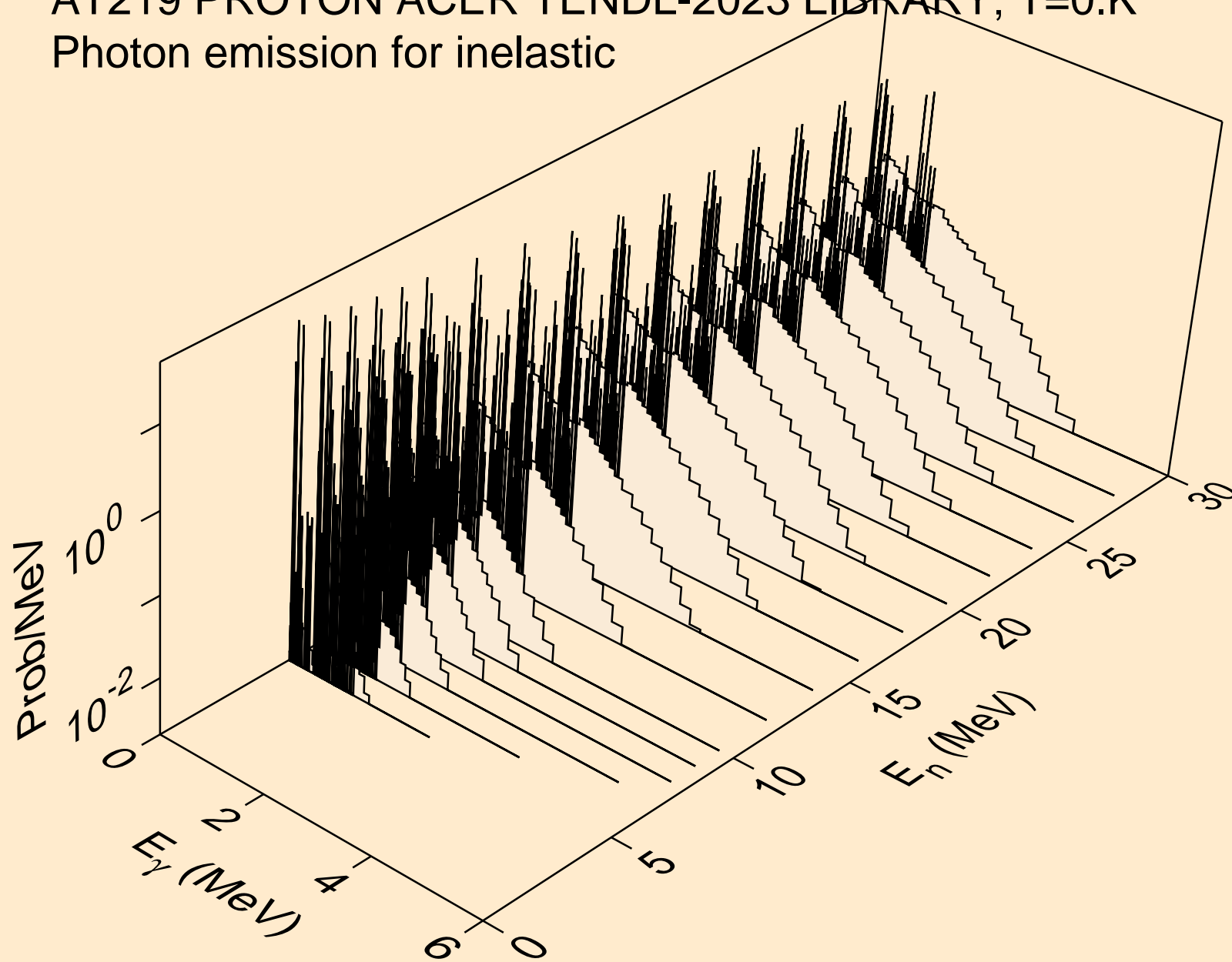


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Photon emission for (n,gma)

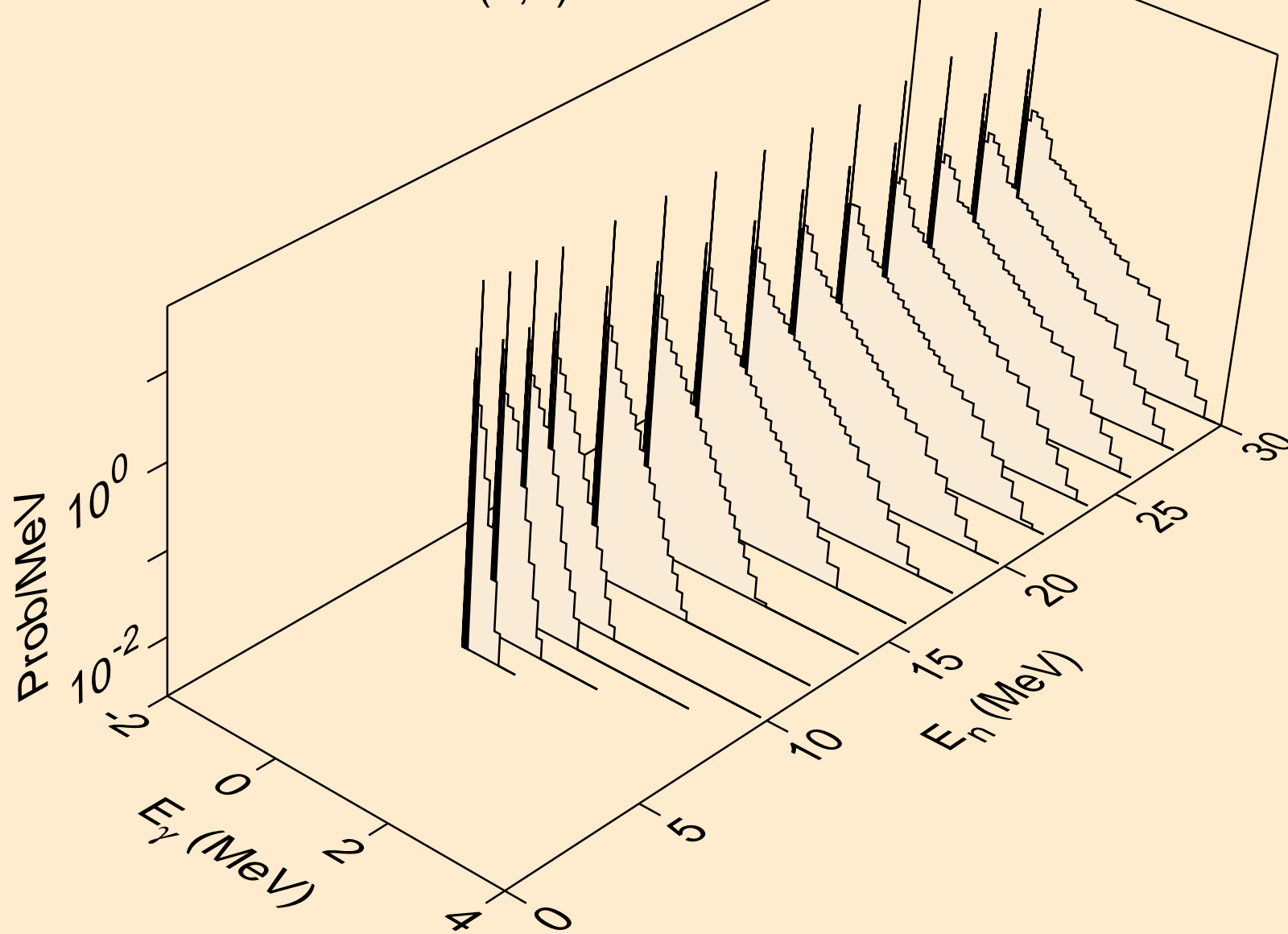




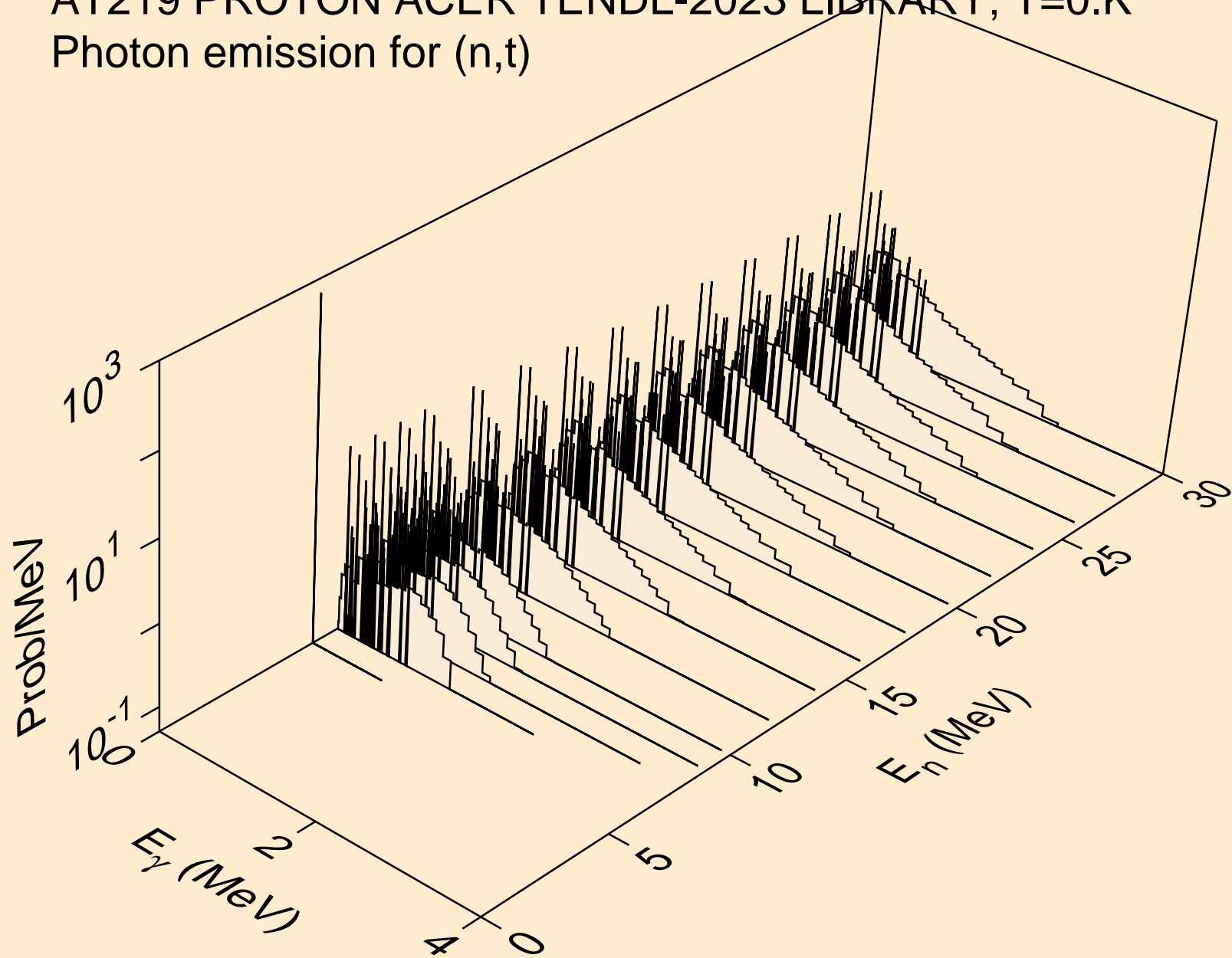
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Photon emission for inelastic



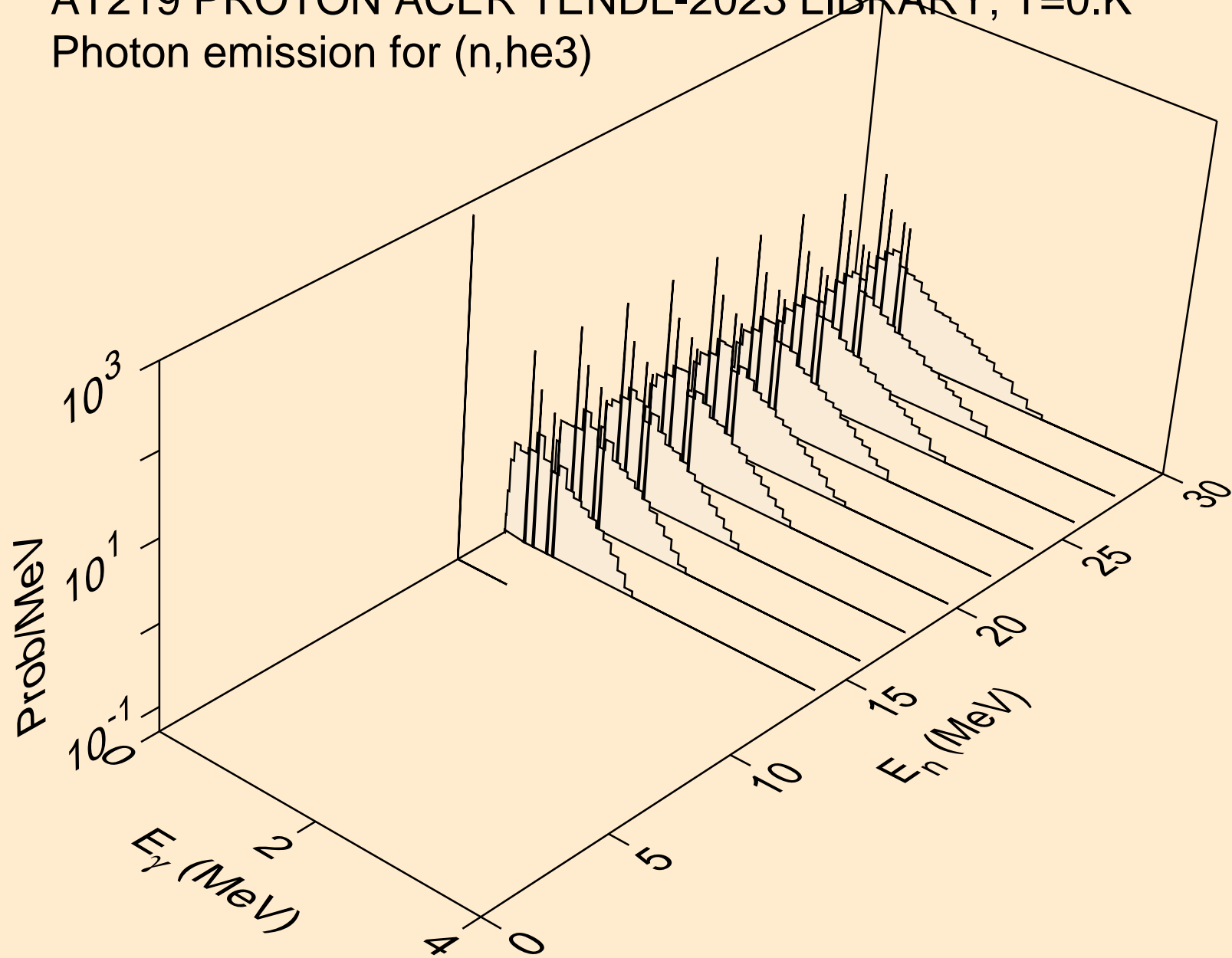
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Photon emission for (n,d)



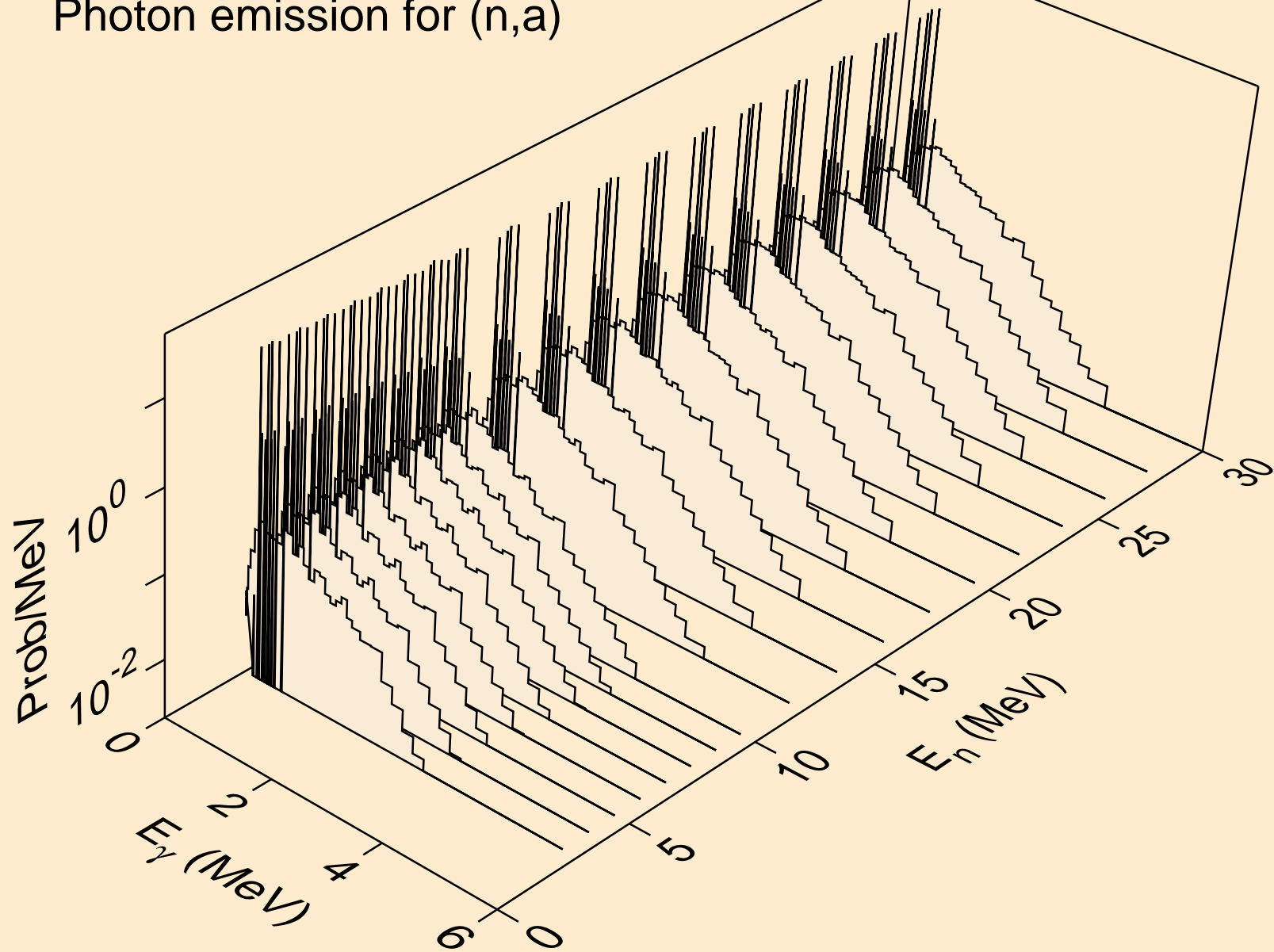
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Photon emission for (n,t)



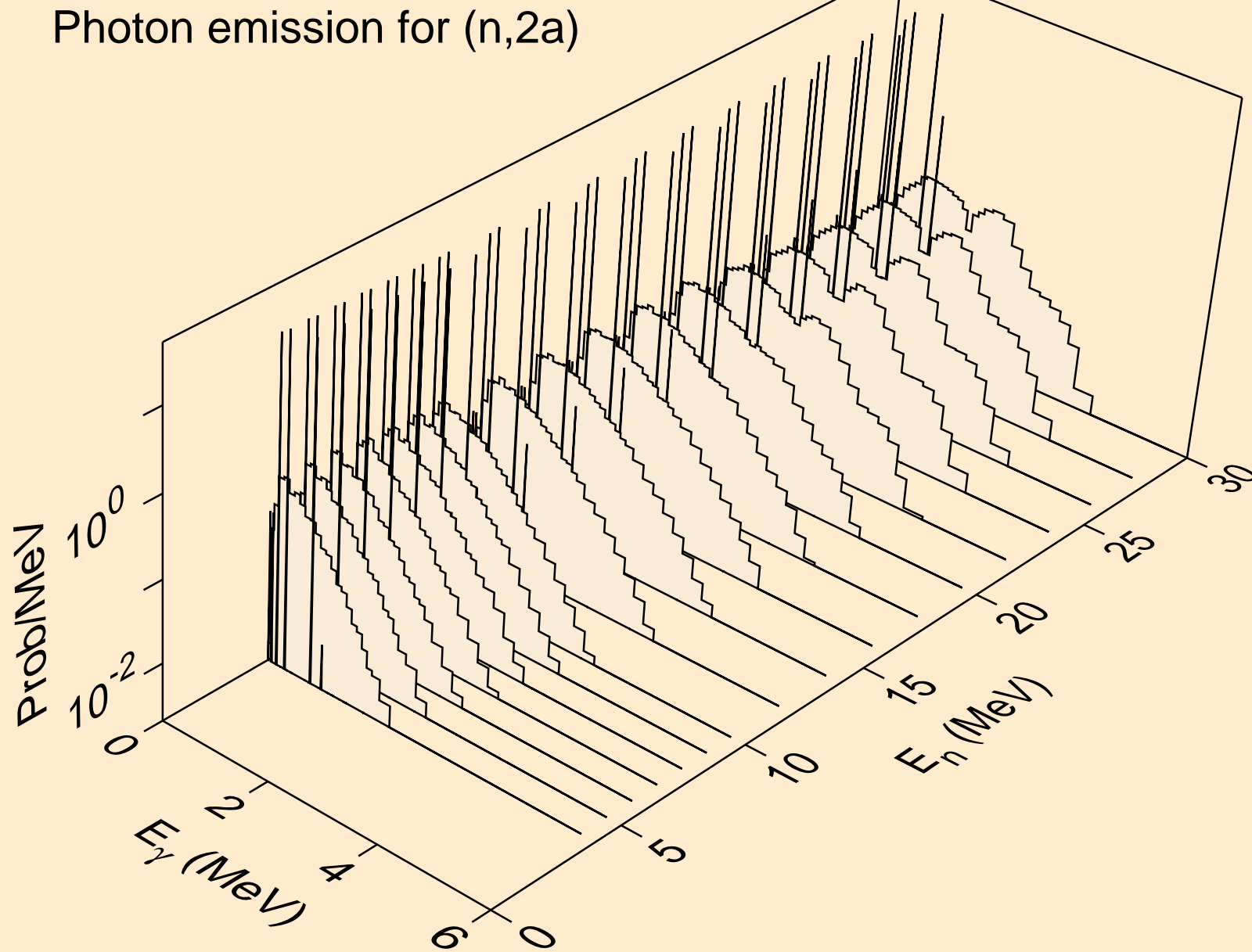
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Photon emission for (n,he3)



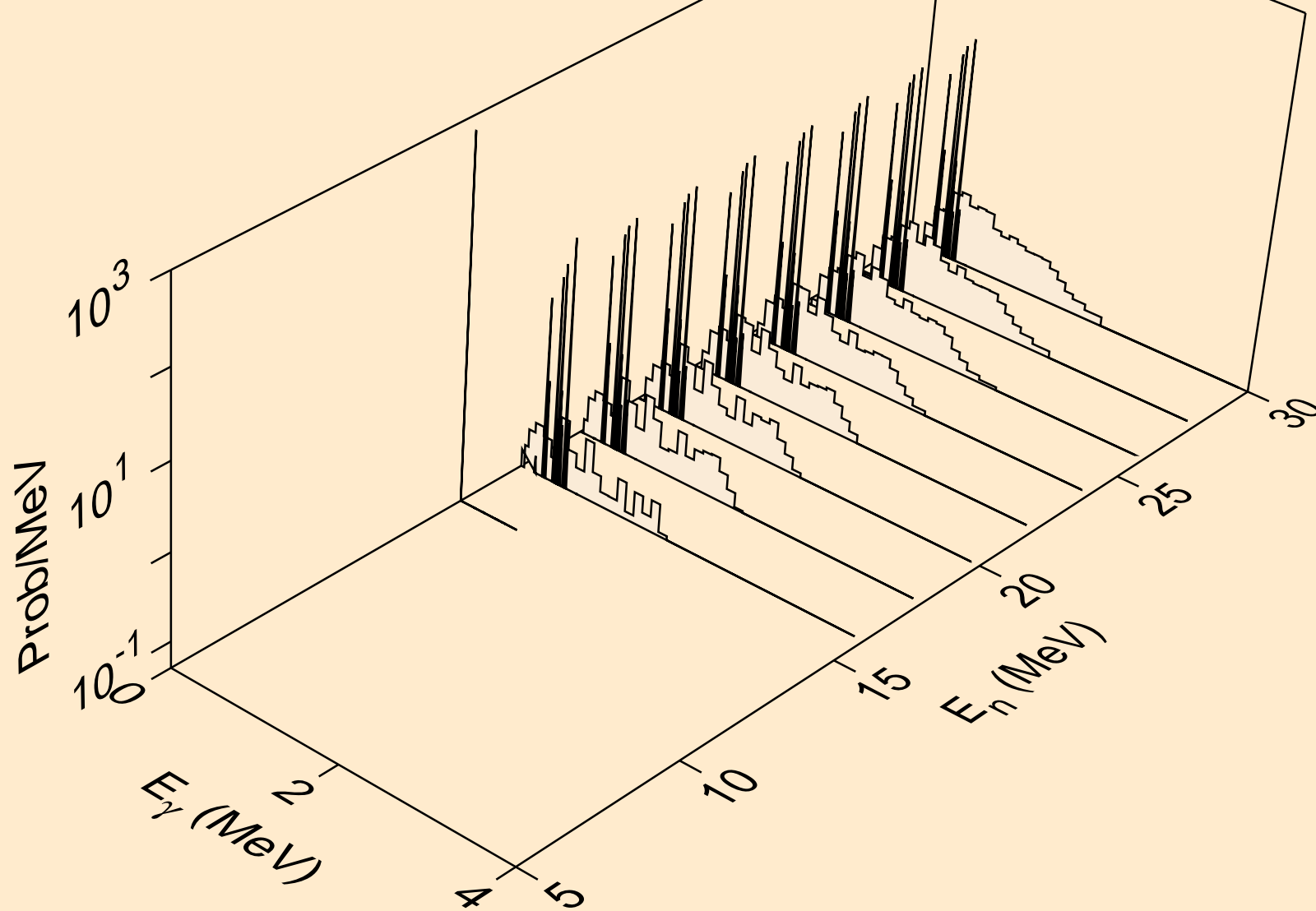
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Photon emission for (n,a)



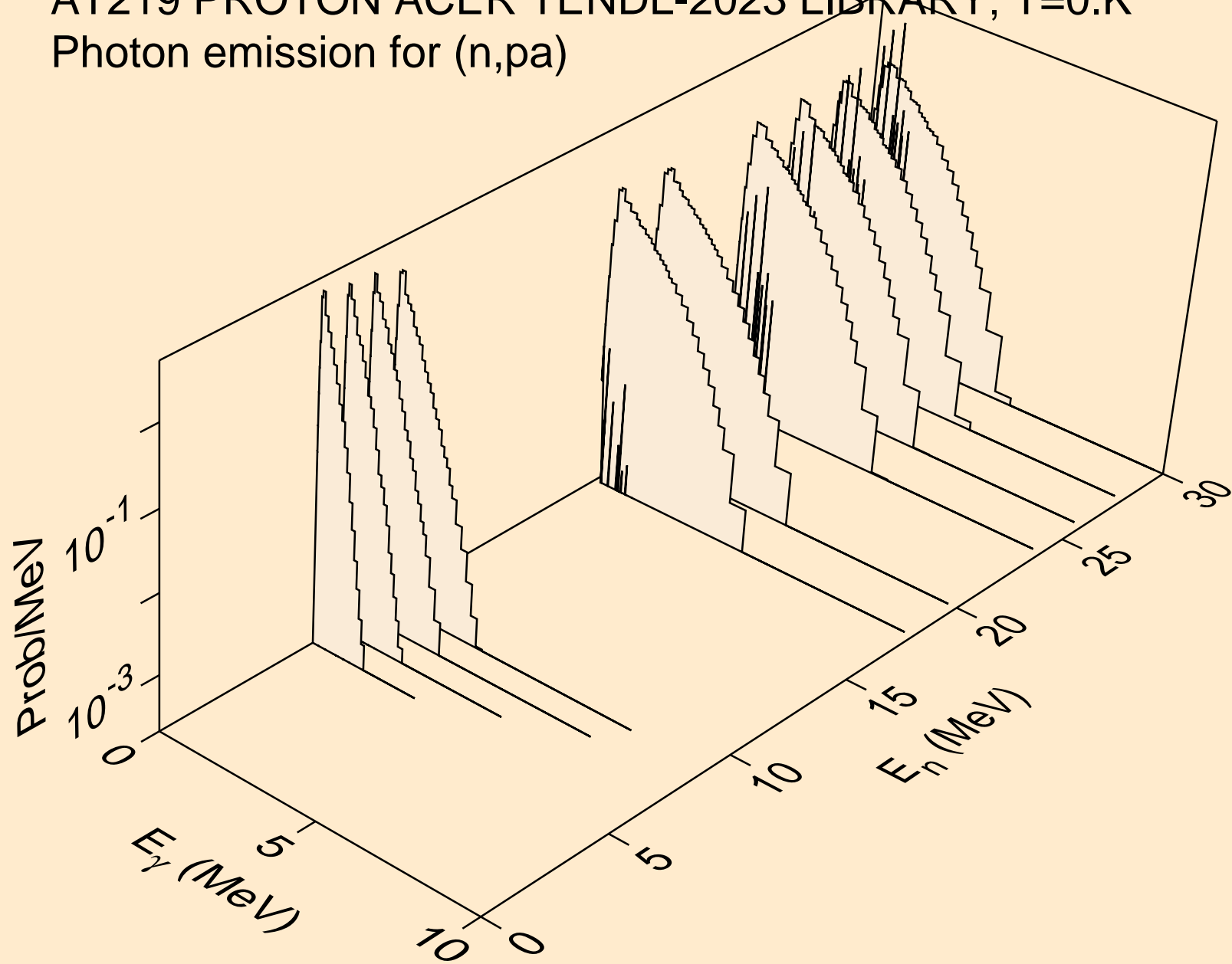
AT219 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2a)



AT219 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2p)

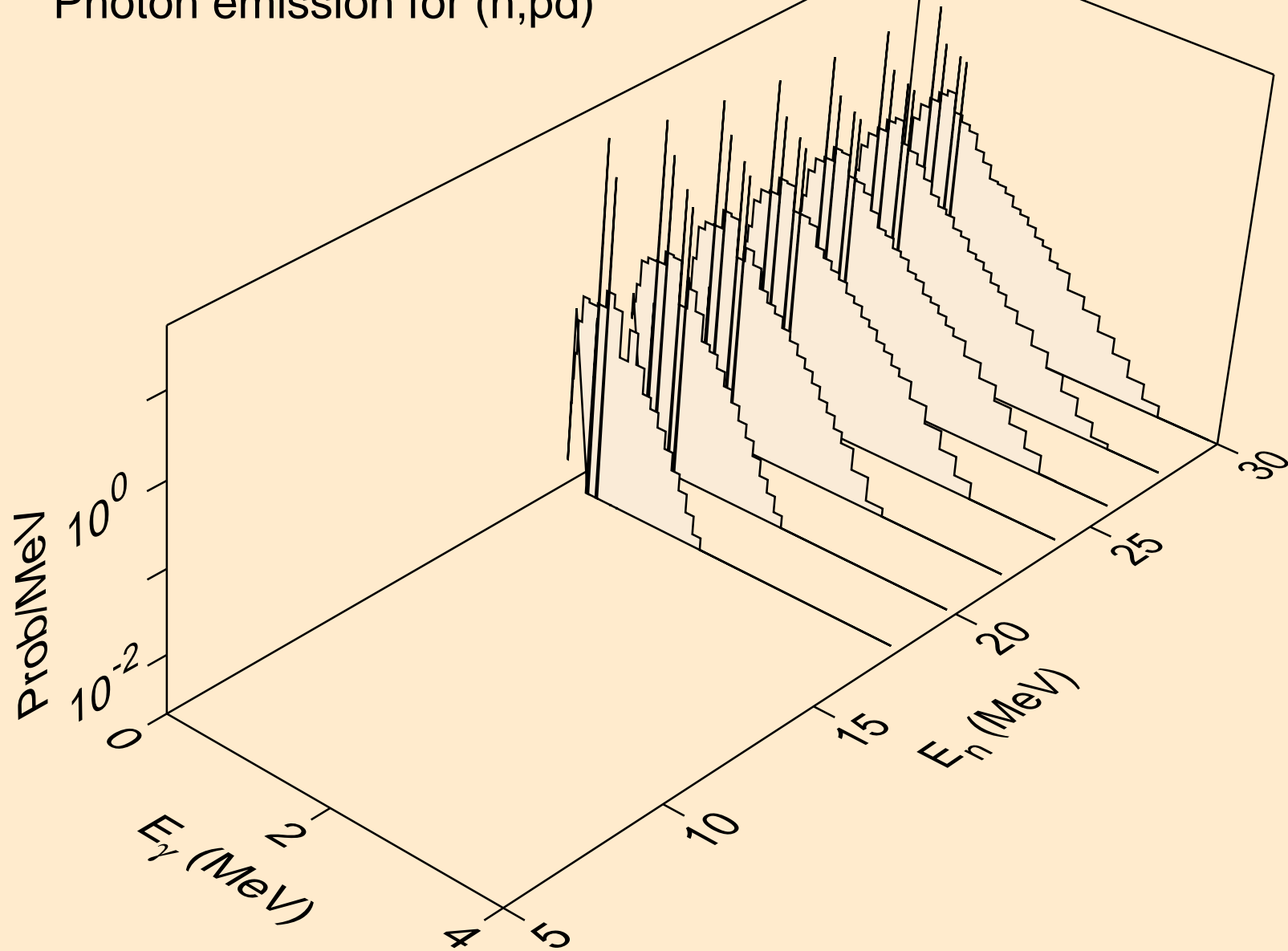


AT219 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,p)

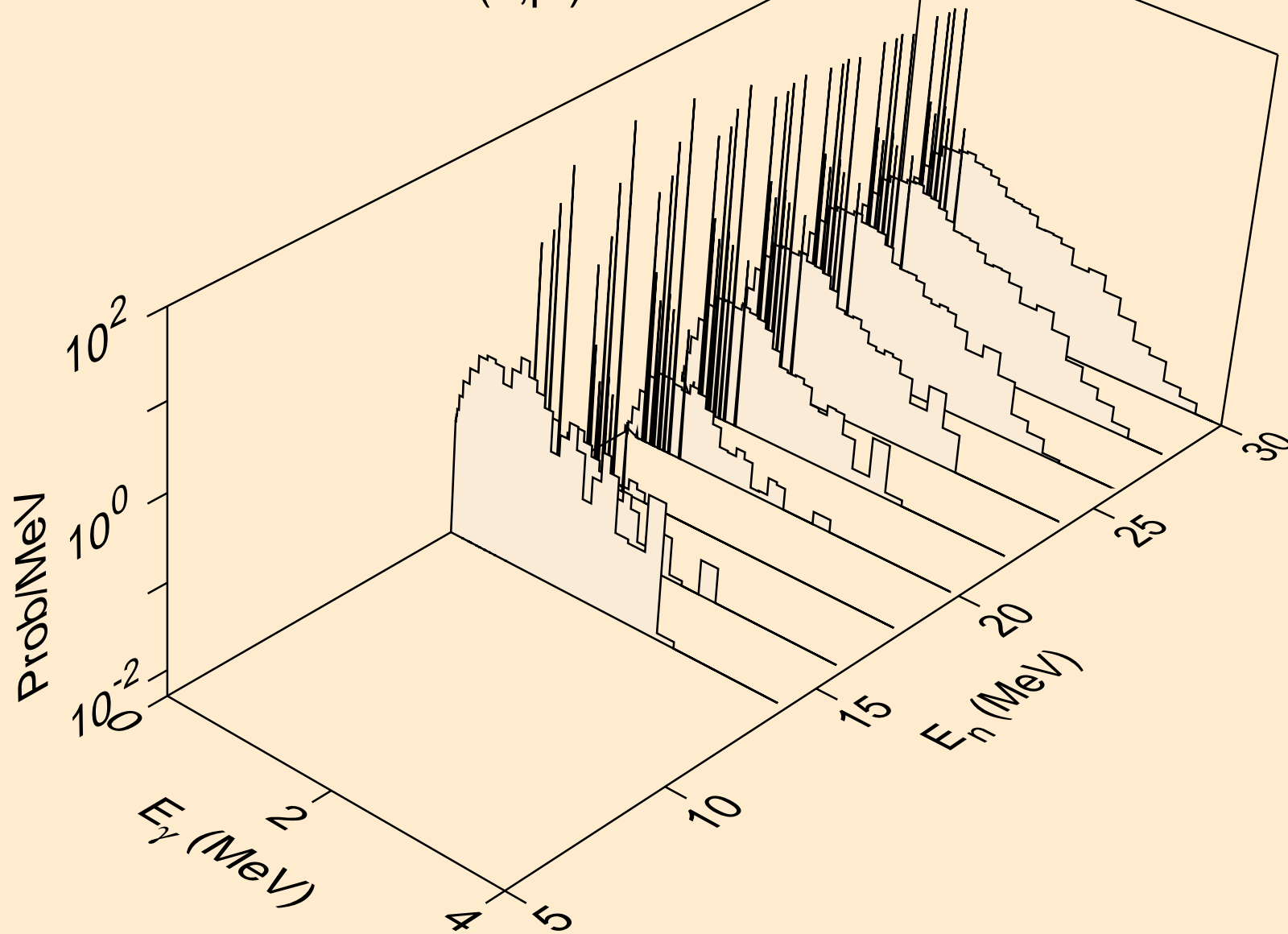




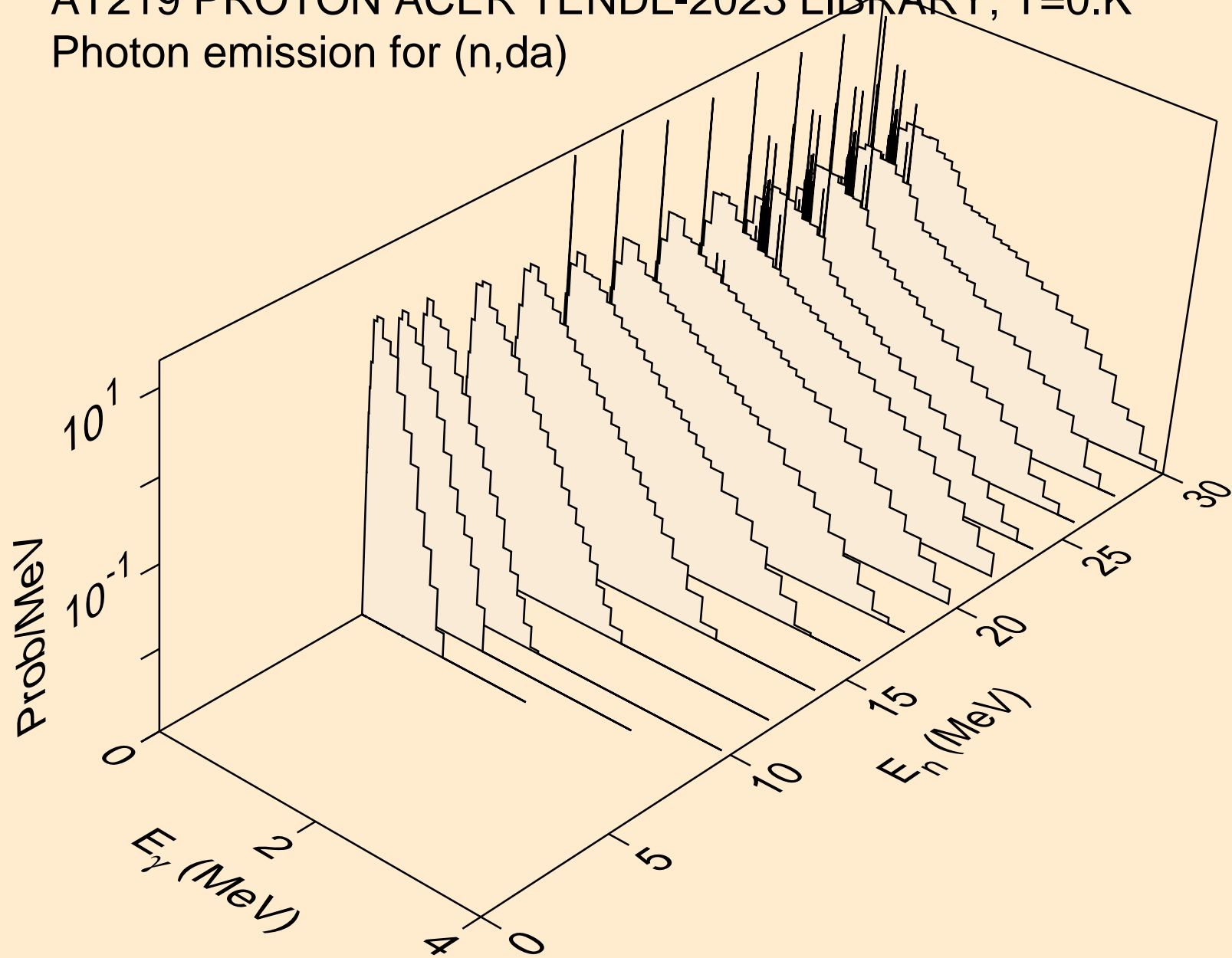
AT219 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,pd)



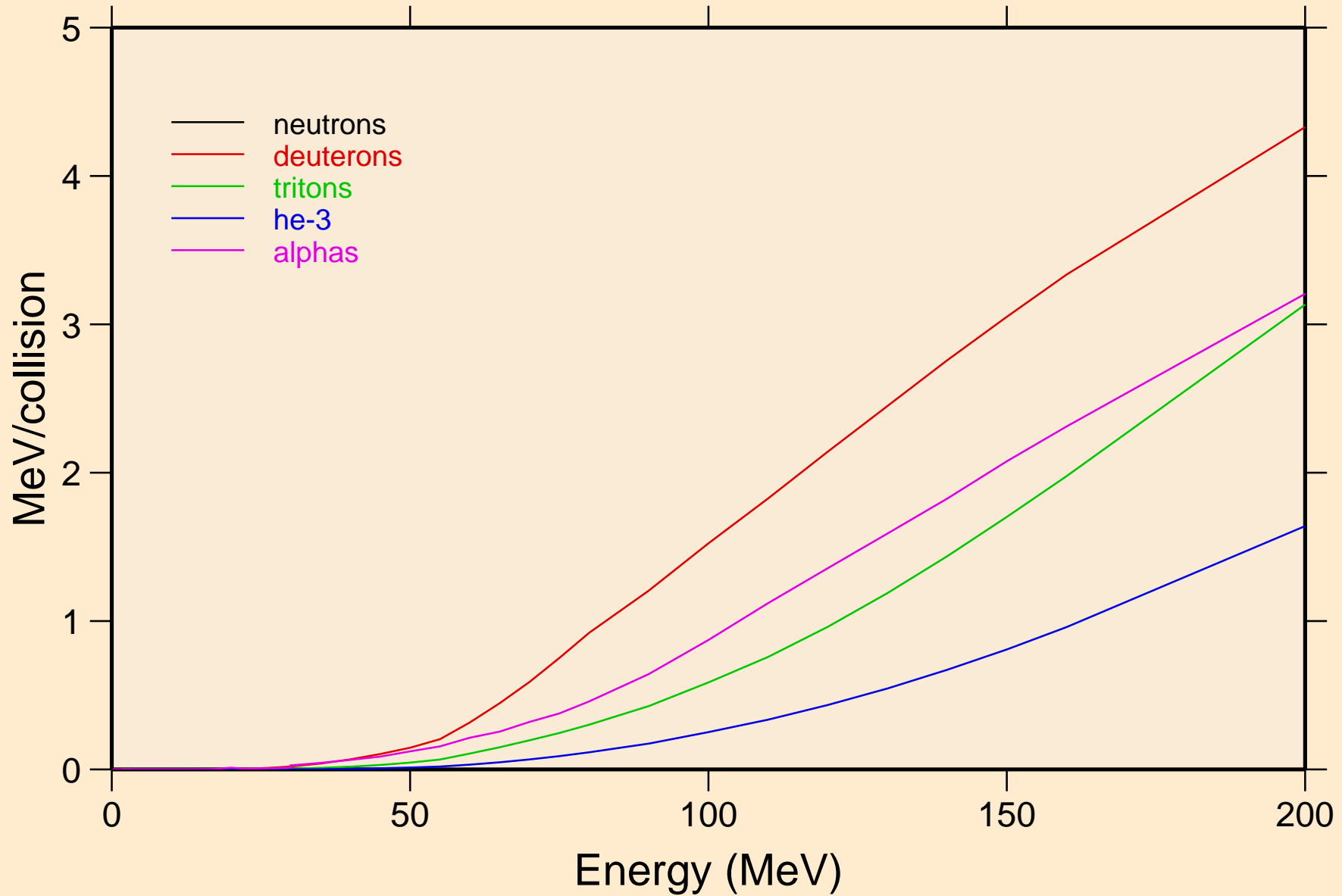
AT219 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,pt)



AT219 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,da)

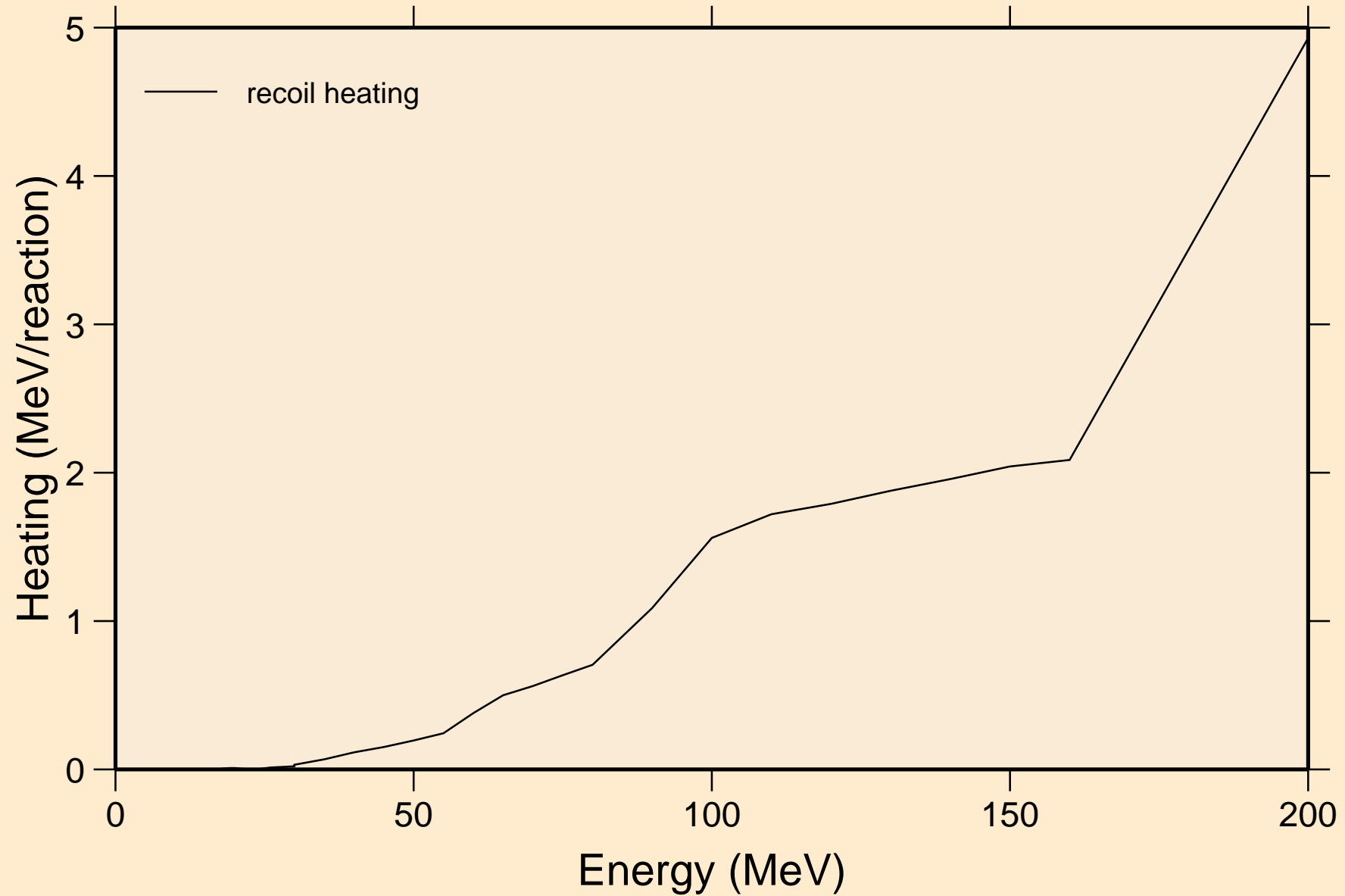


AT219 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Particle heating contributions

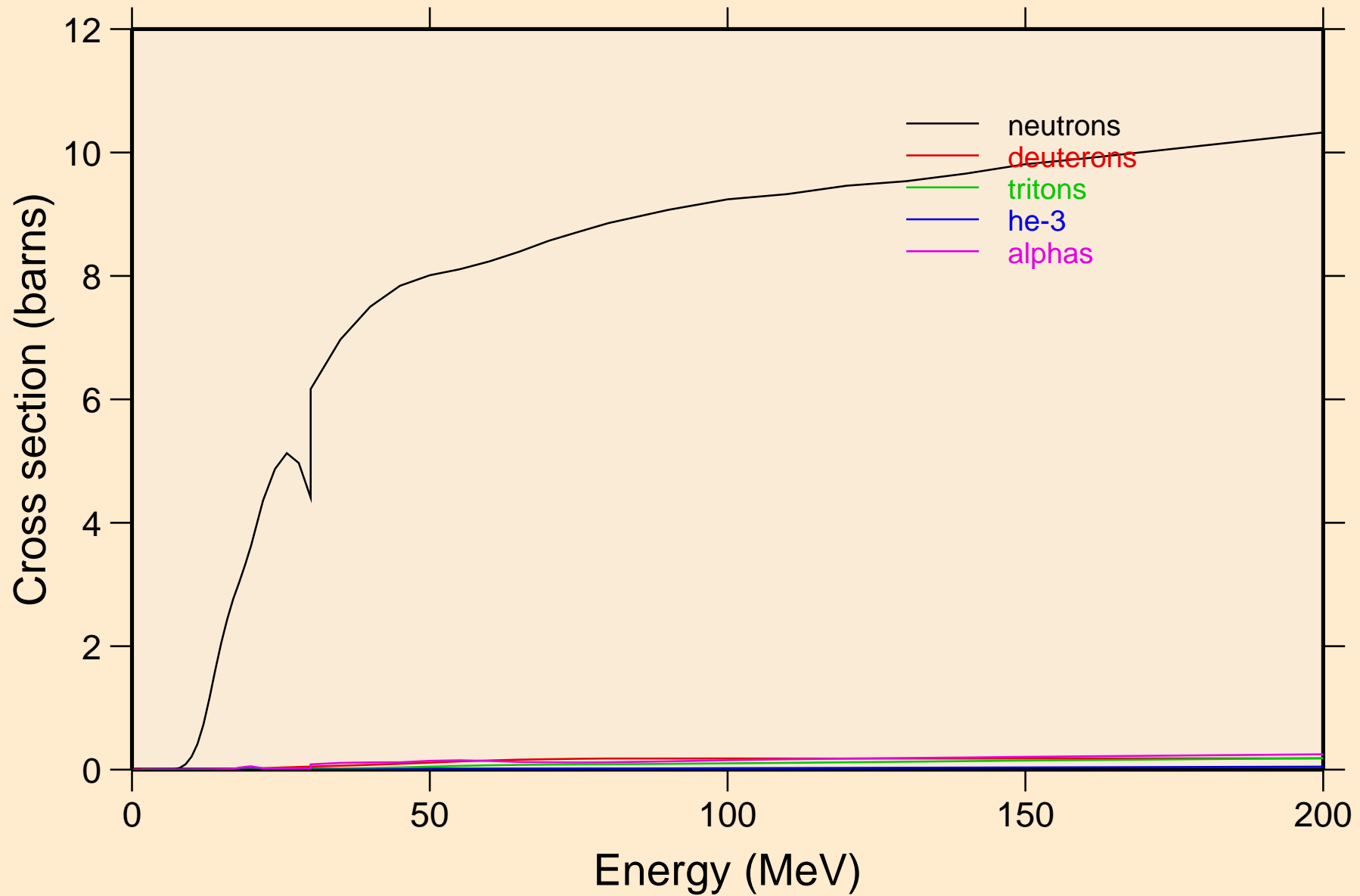


# AT219 PROTON ACER TENDL-2023 LIBRARY; T=0.K

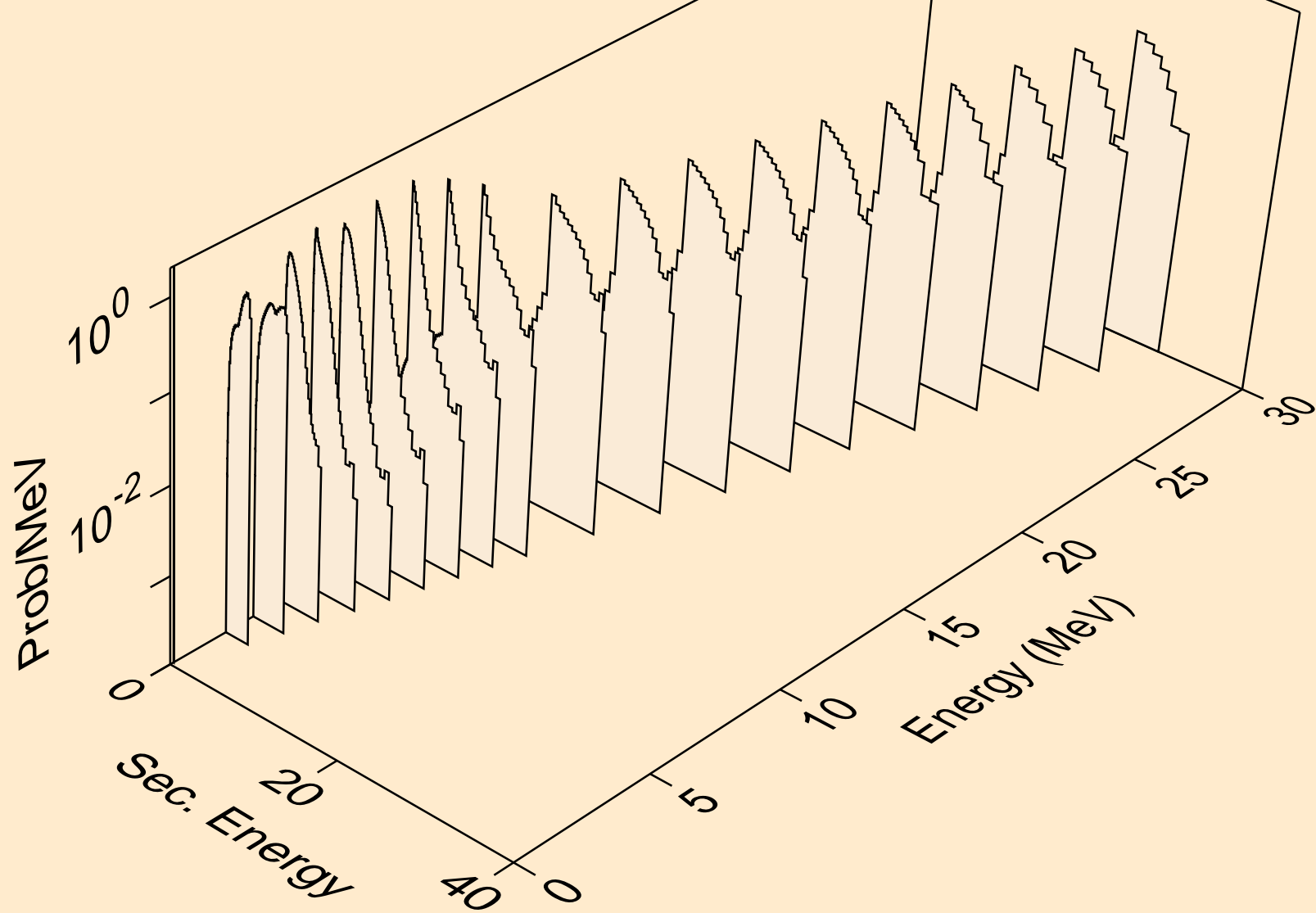
## Recoil Heating



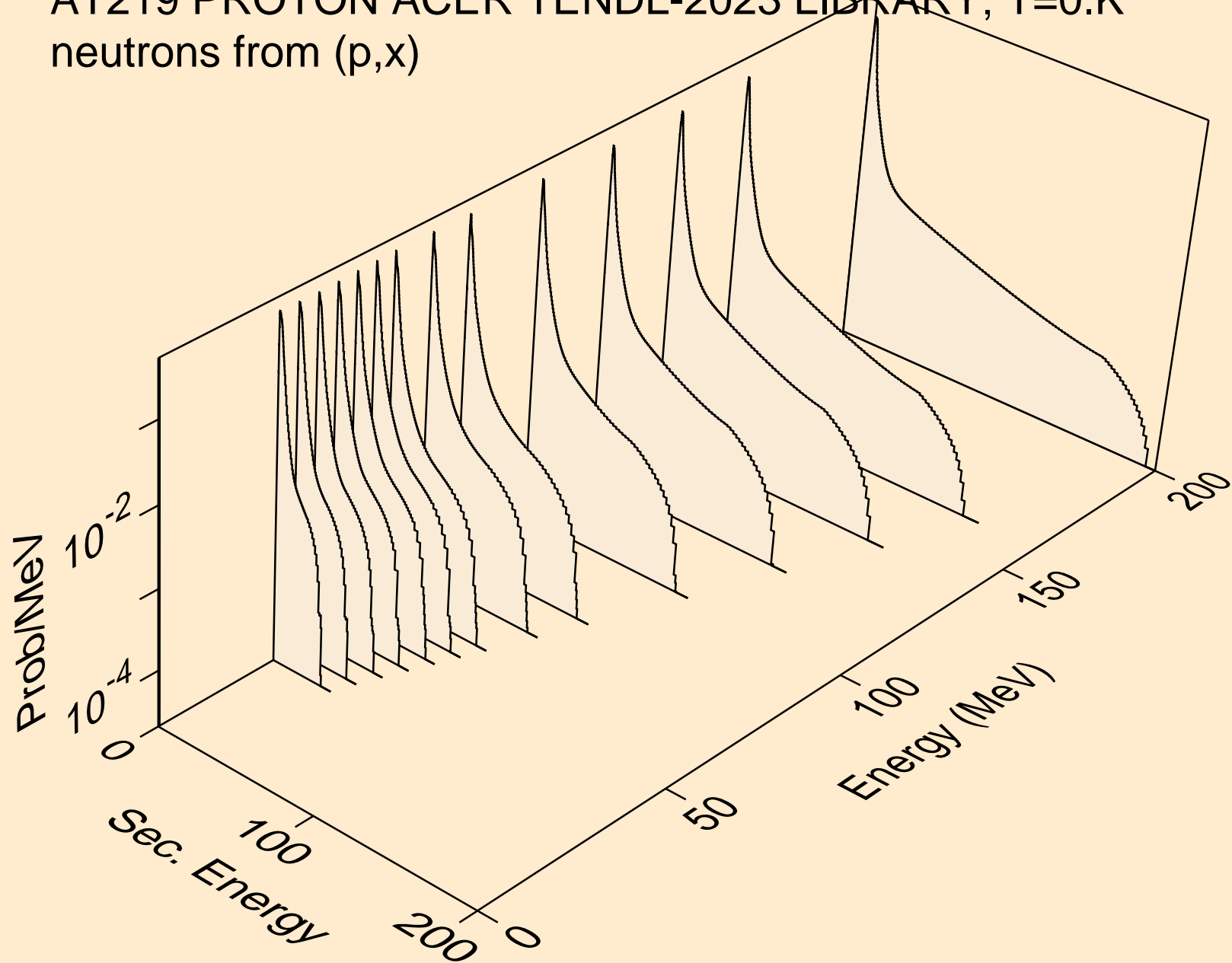
AT219 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Particle production cross sections



AT219 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (p,n)

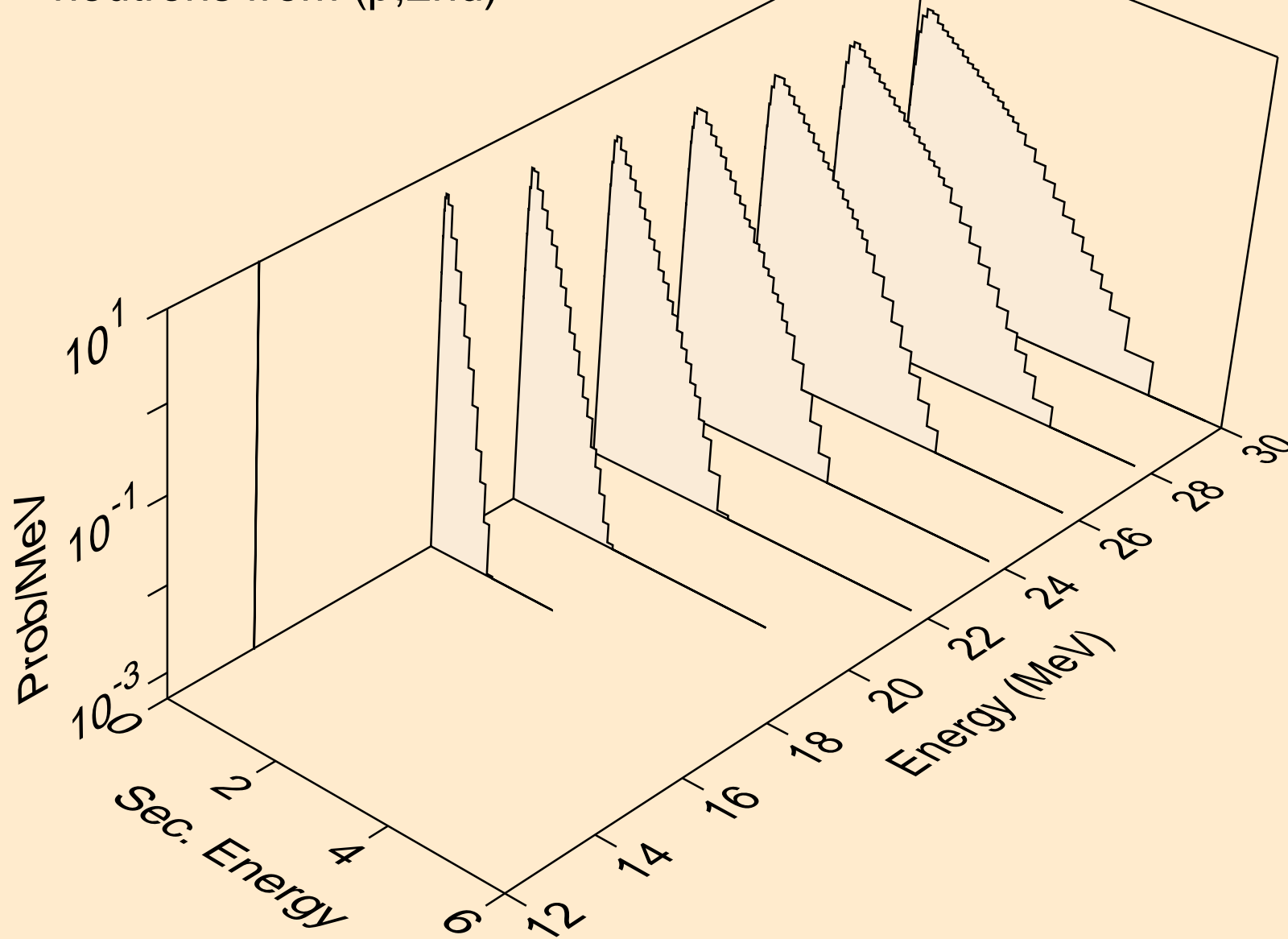


AT219 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (p,x)

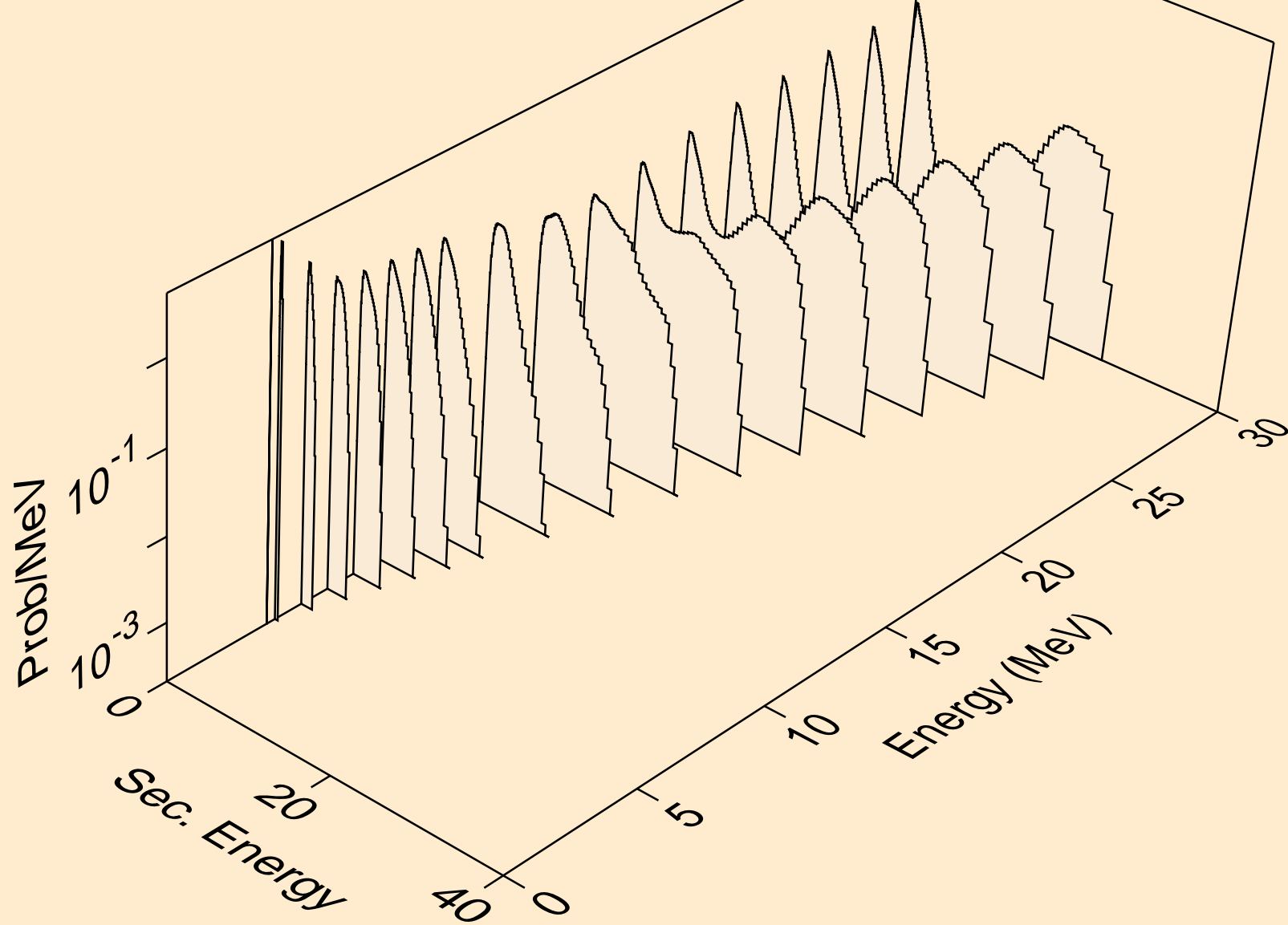




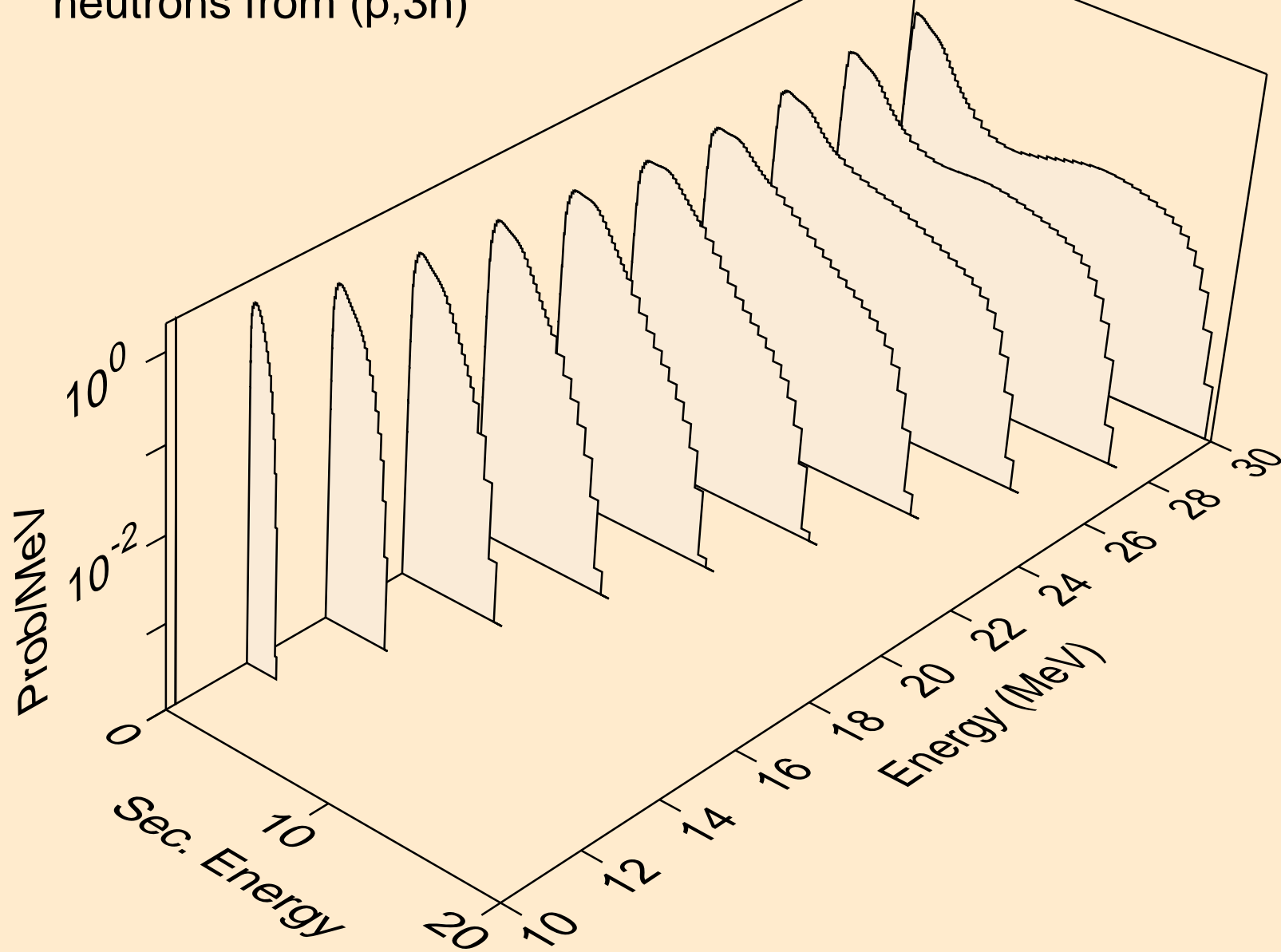
AT219 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (p,2nd)



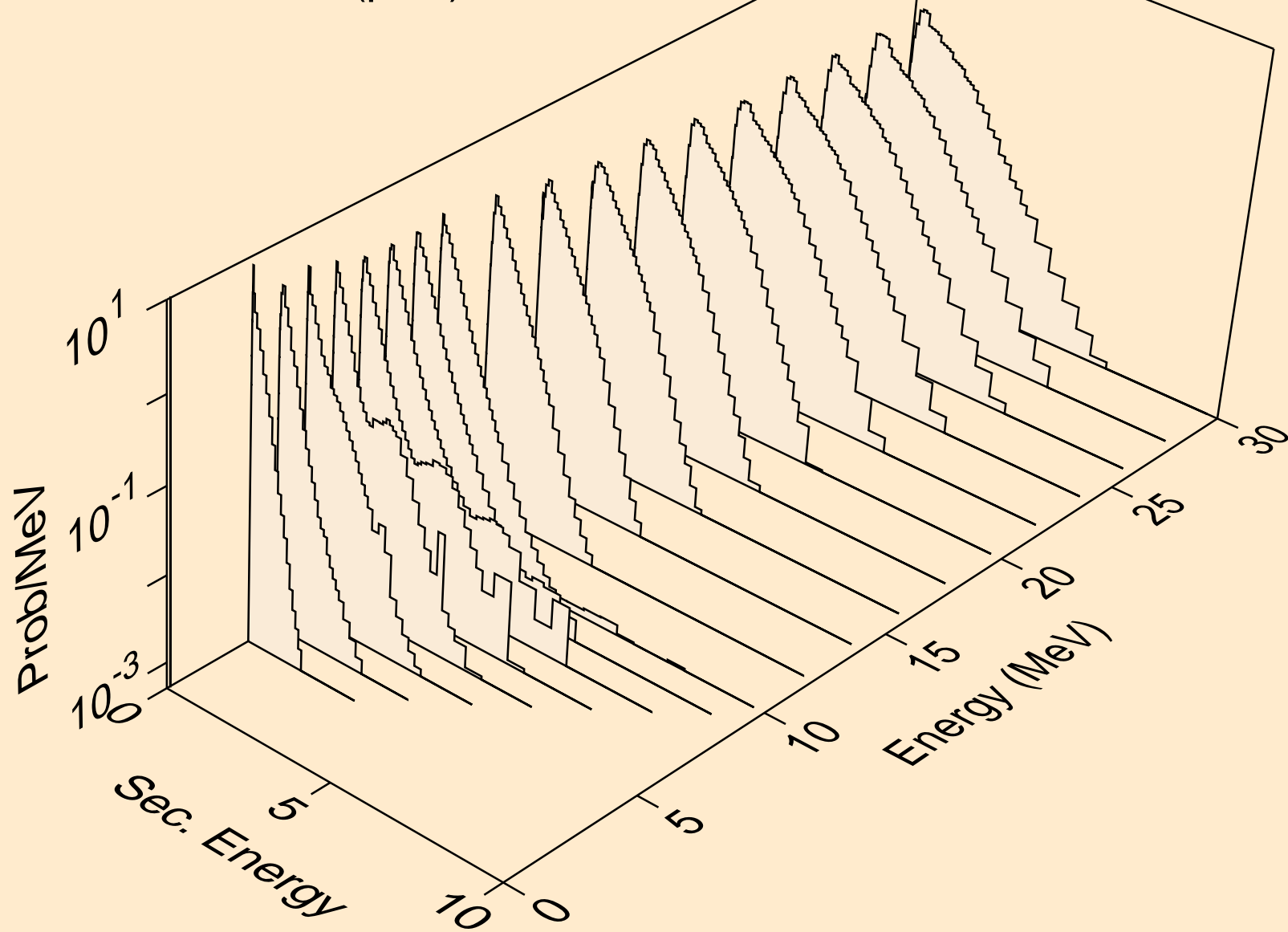
AT219 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (p,2n)



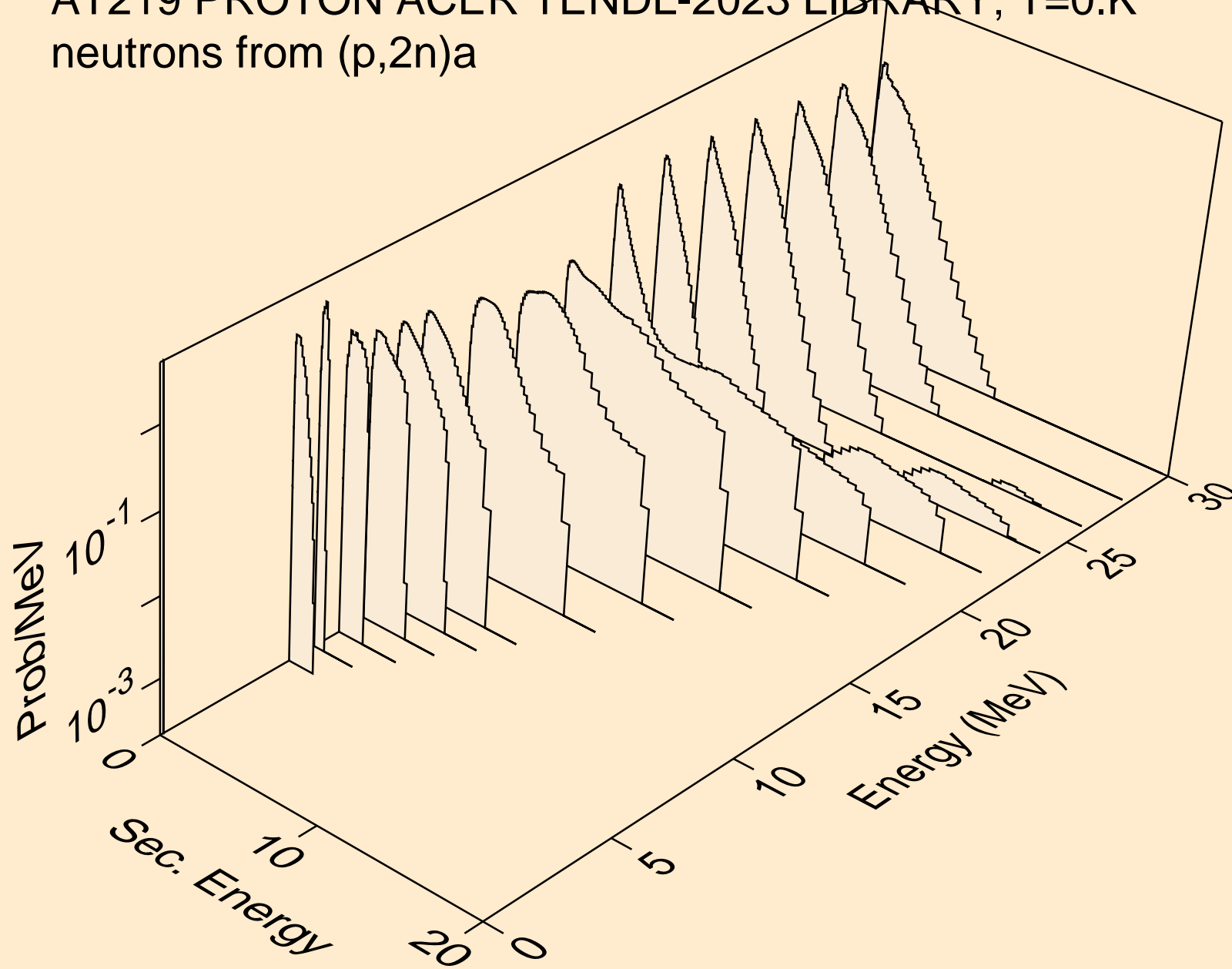
AT219 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (p,3n)



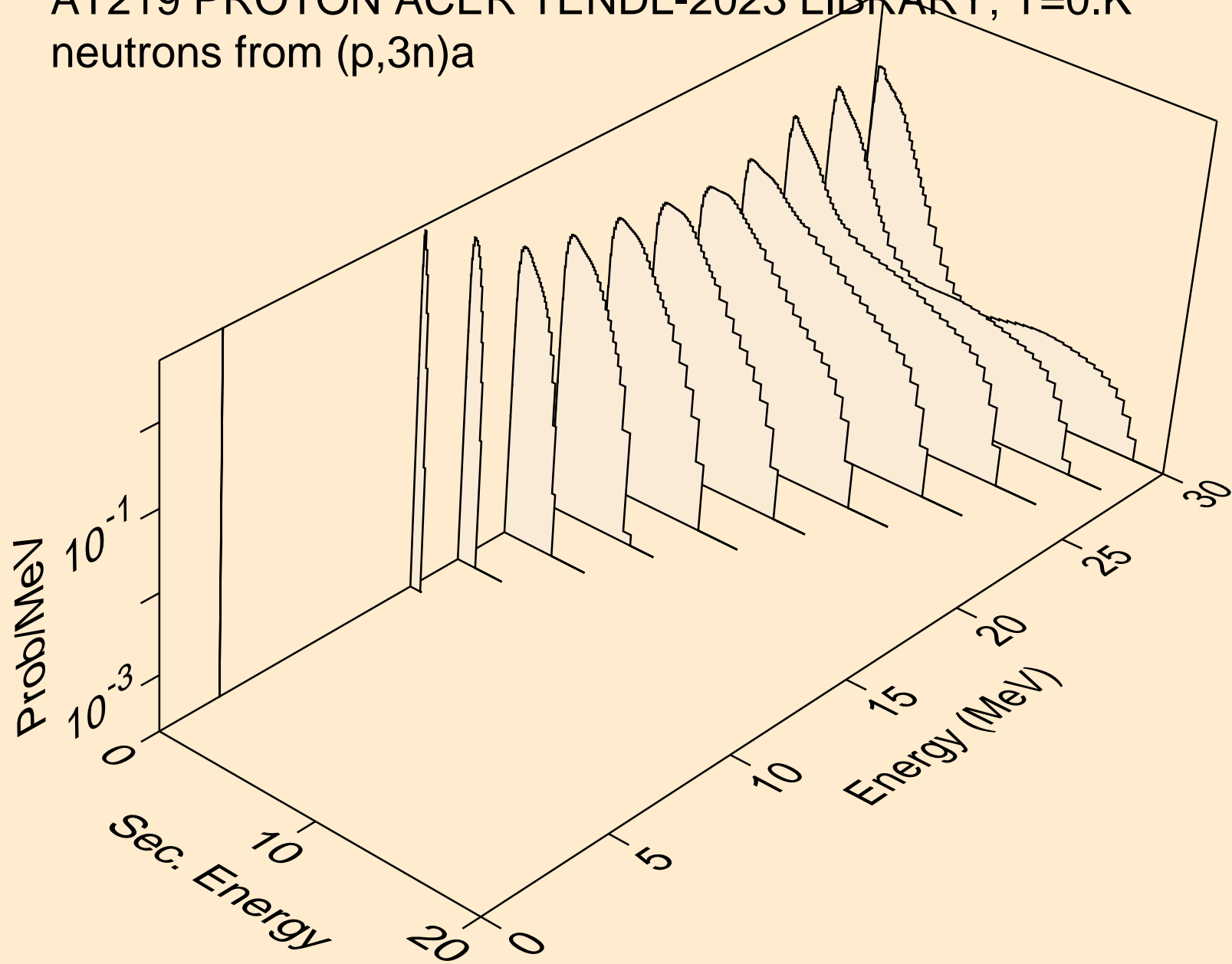
AT219 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (p,n\*)a



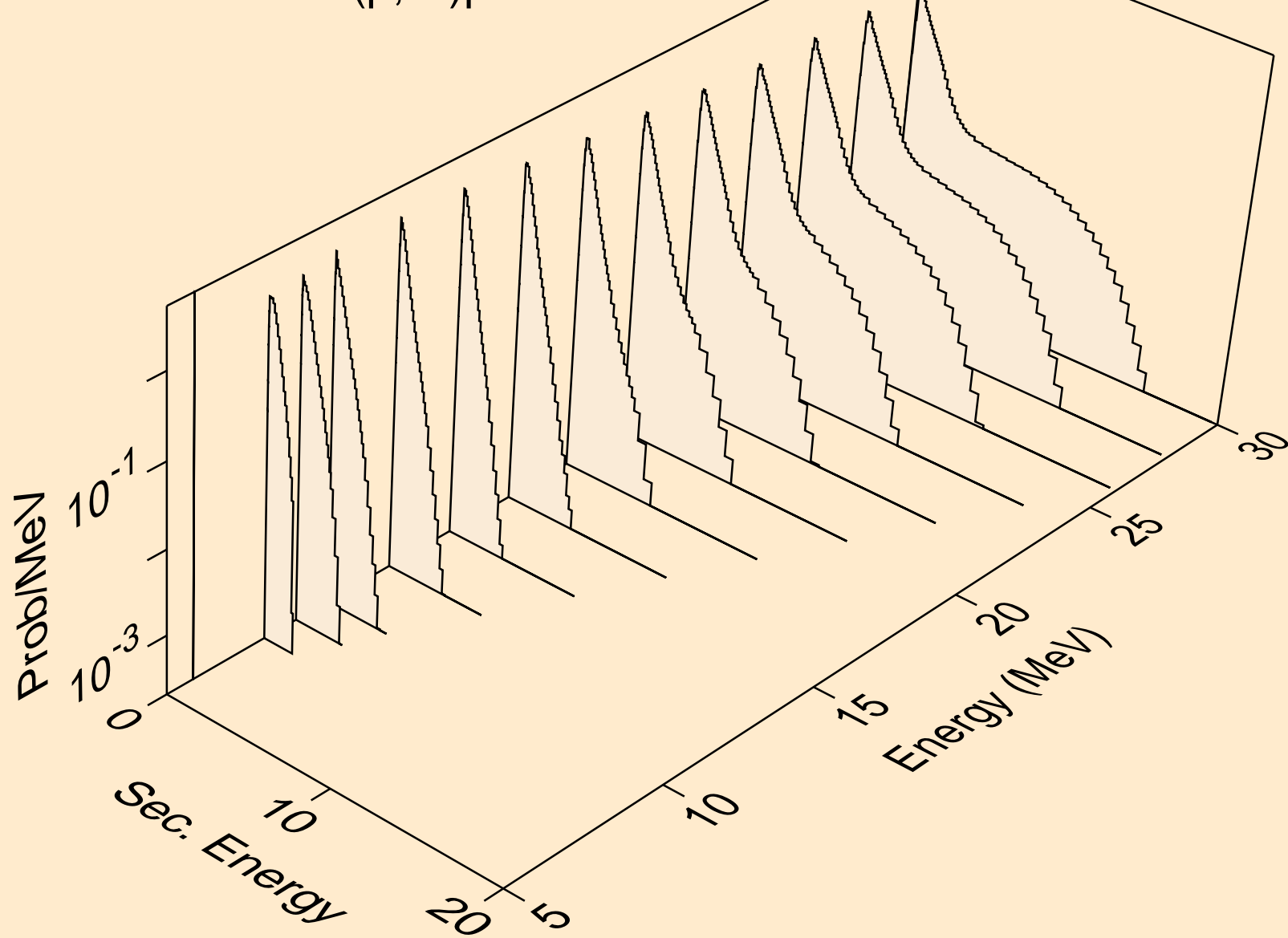
AT219 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (p,2n)a



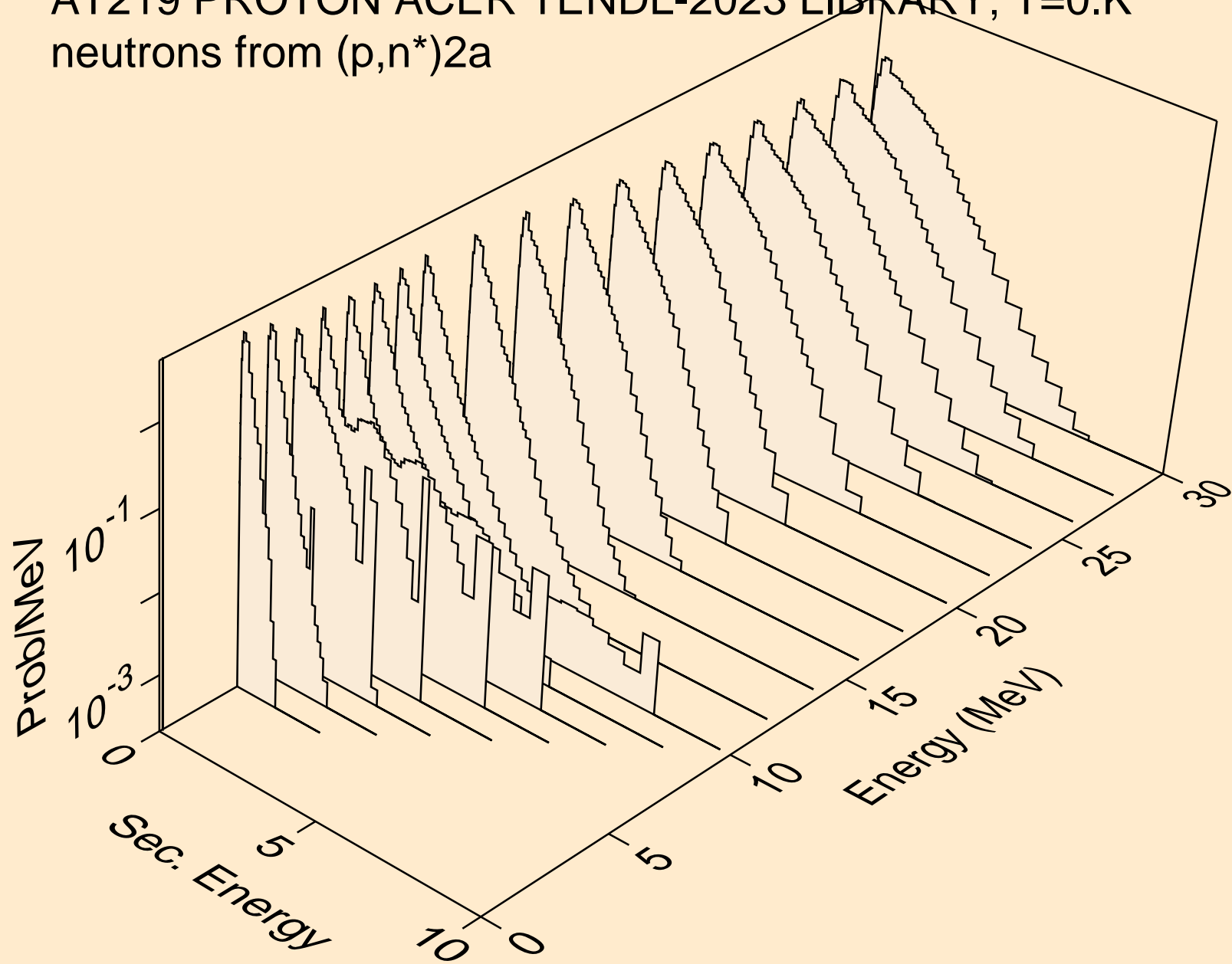
AT219 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (p,3n)a



AT219 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (p,n\*)p

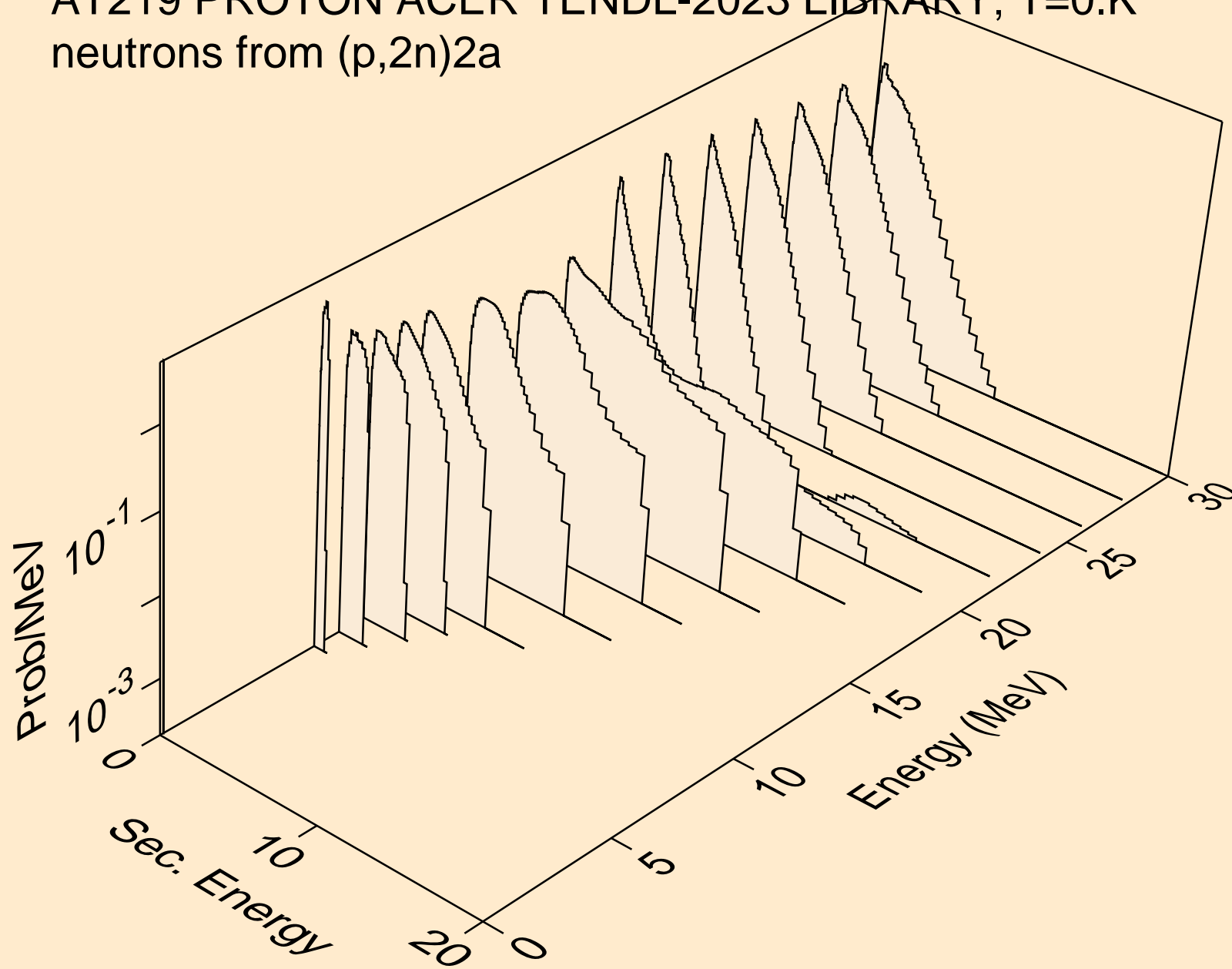


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neutrons from (p,n\*)2a

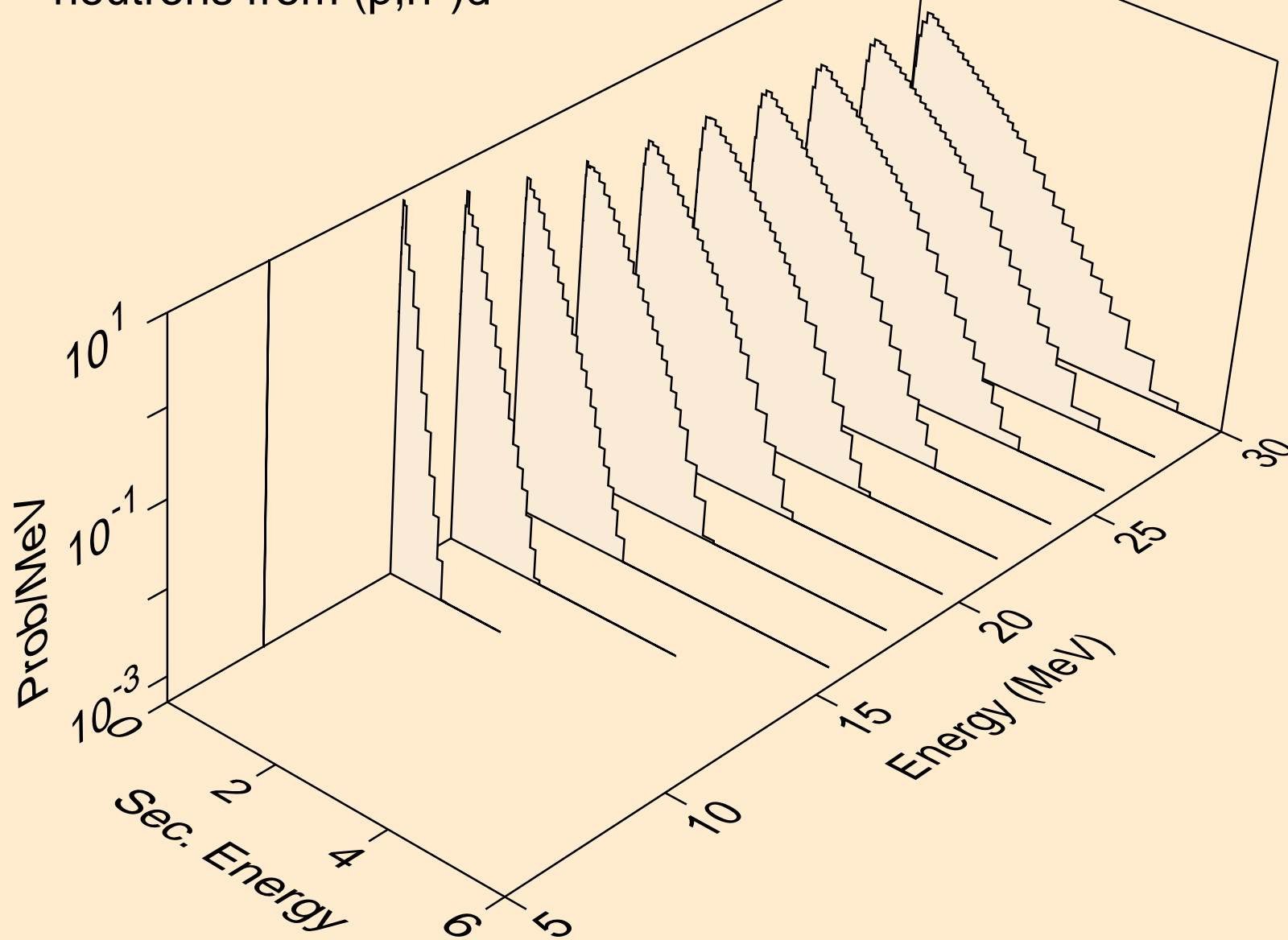




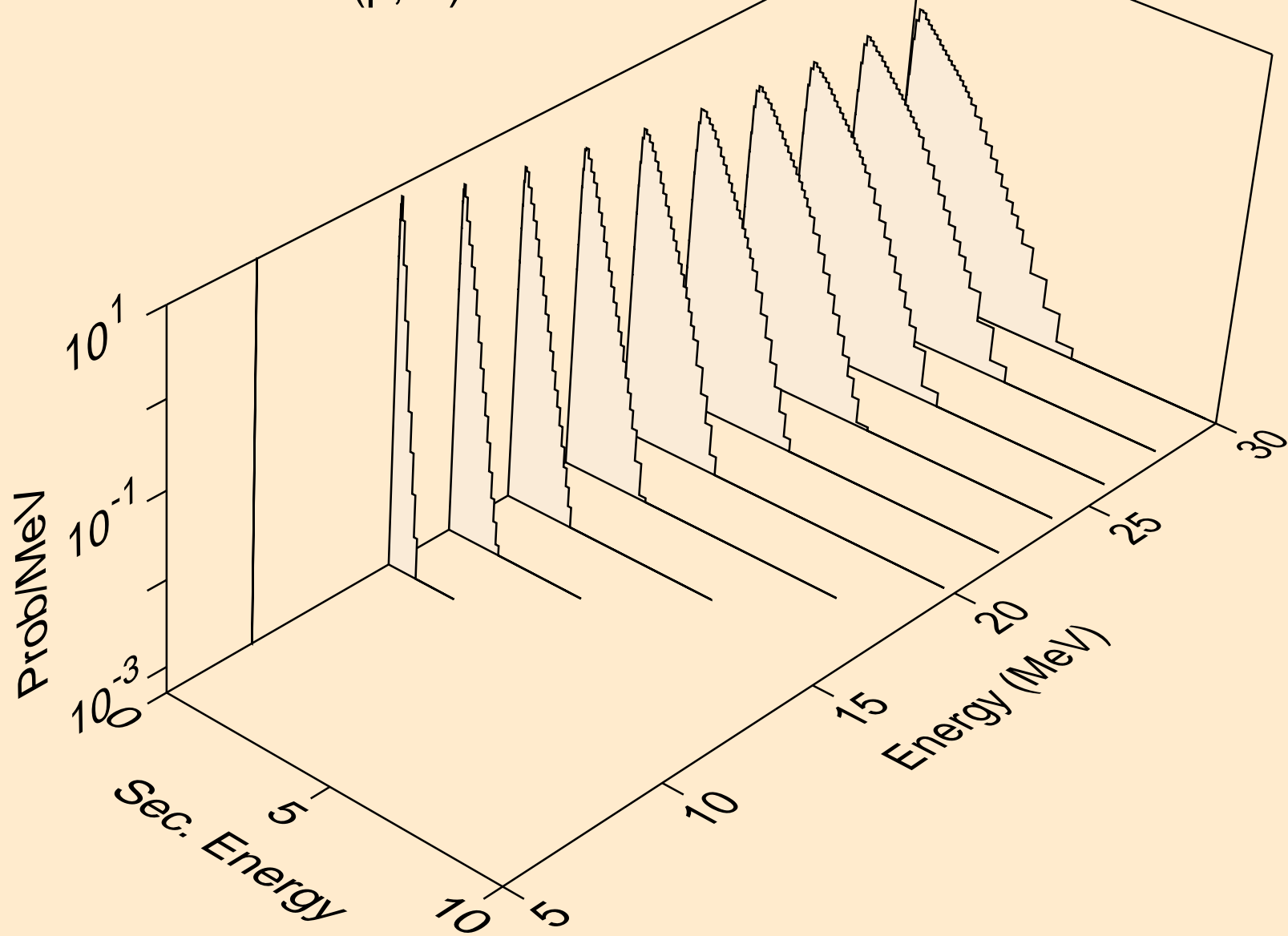
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neutrons from (p,2n)2a



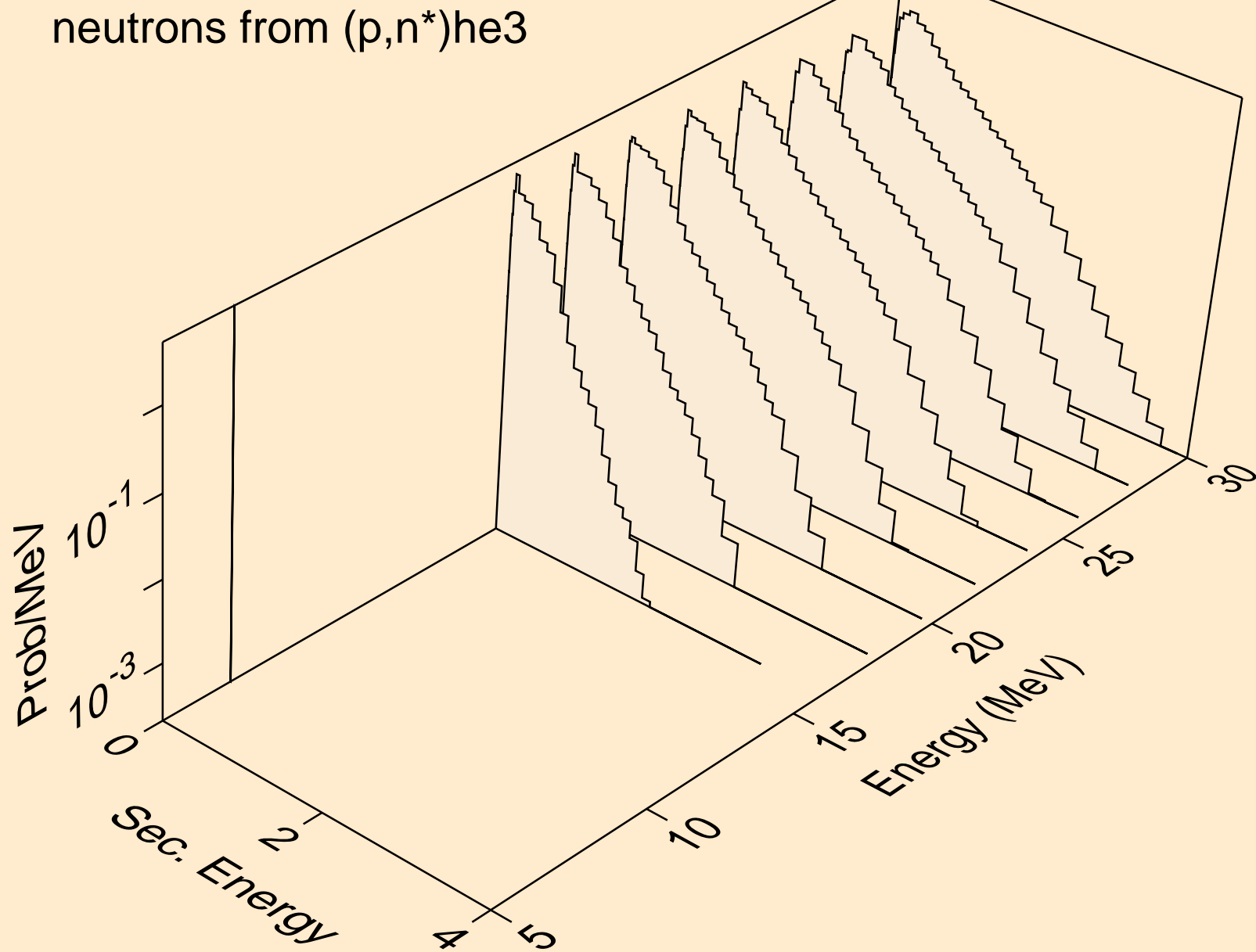
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neutrons from (p,n\*)d



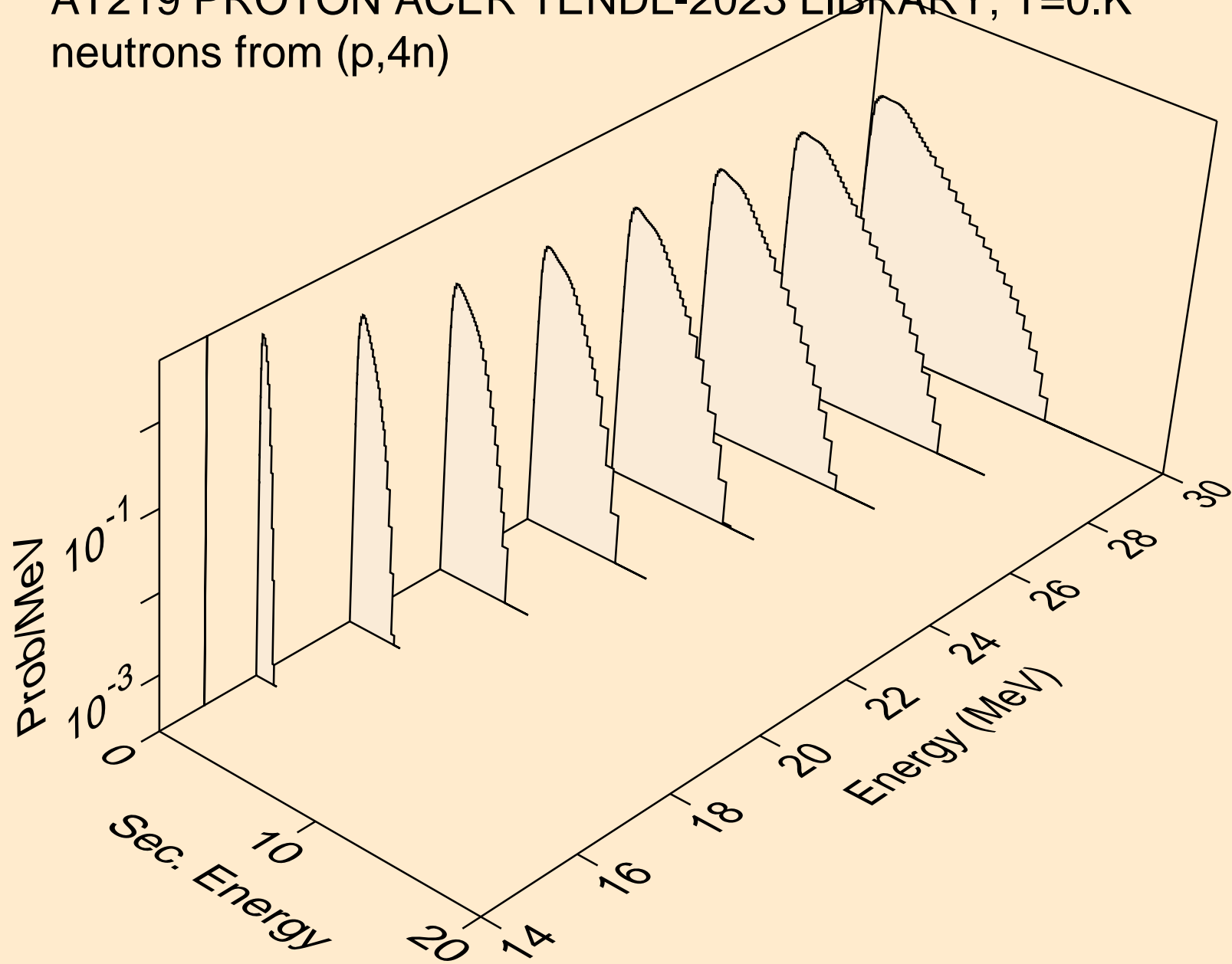
AT219 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (p,n\*)t



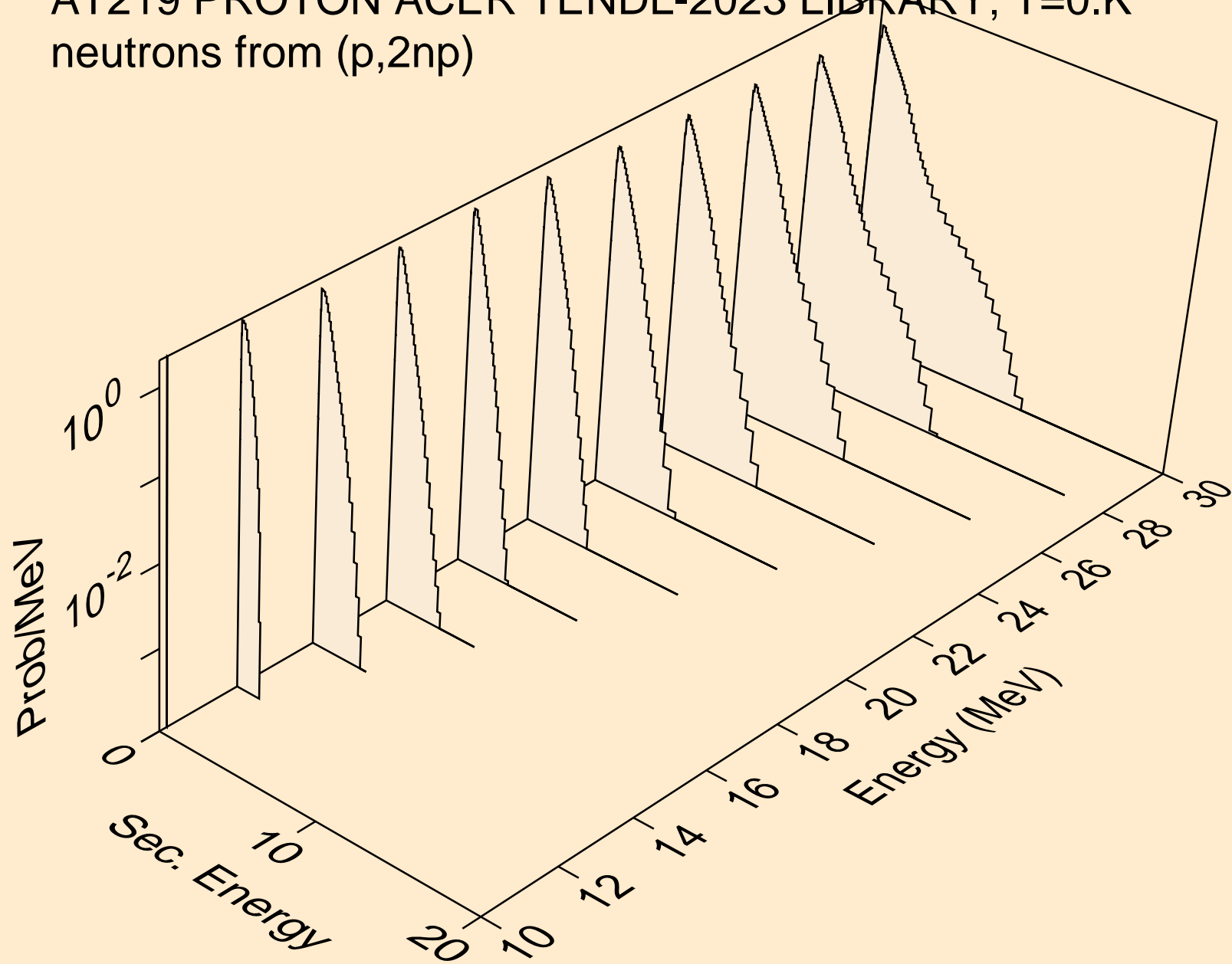
AT219 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (p,n\*)he3



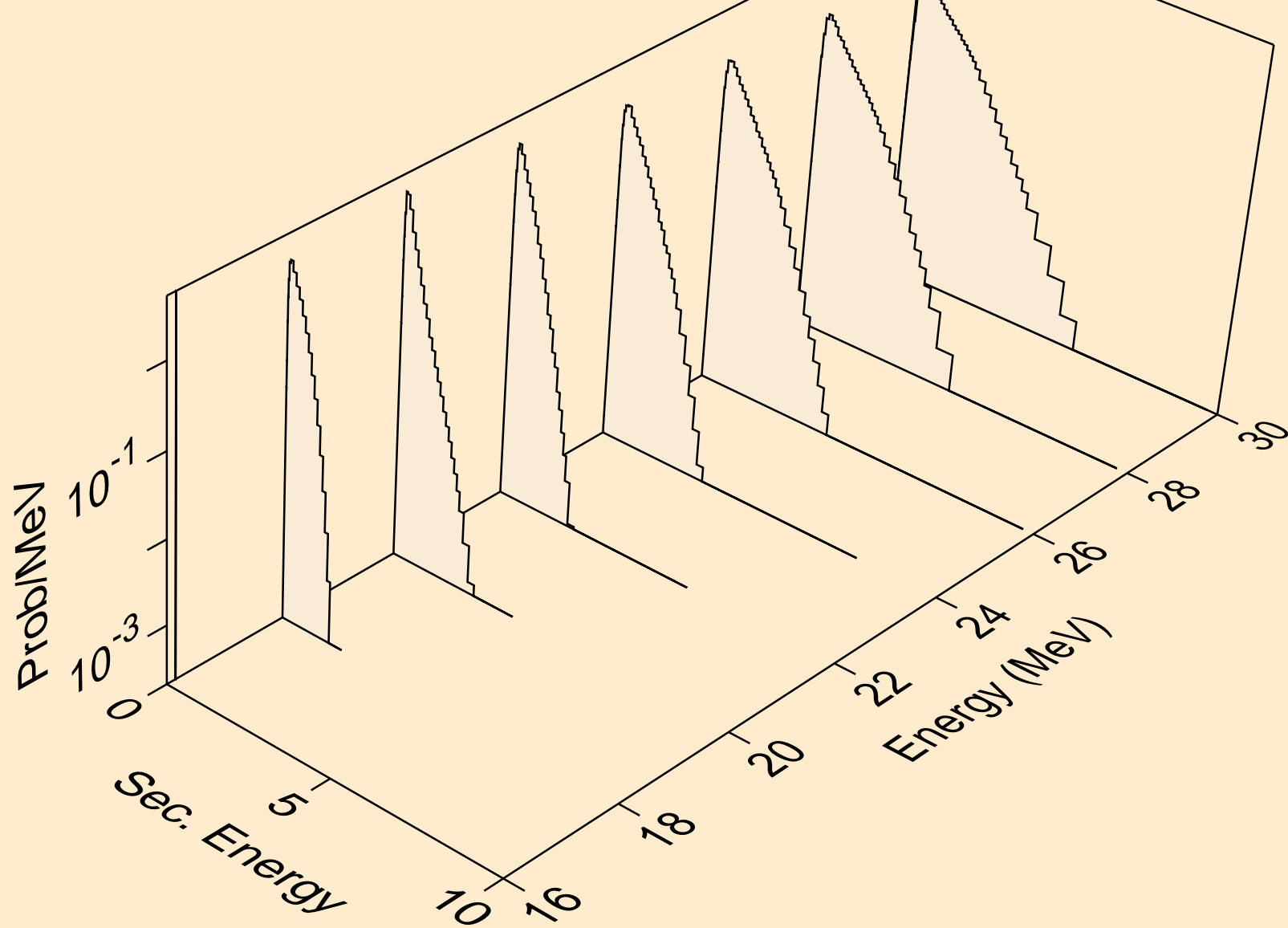
AT219 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (p,4n)



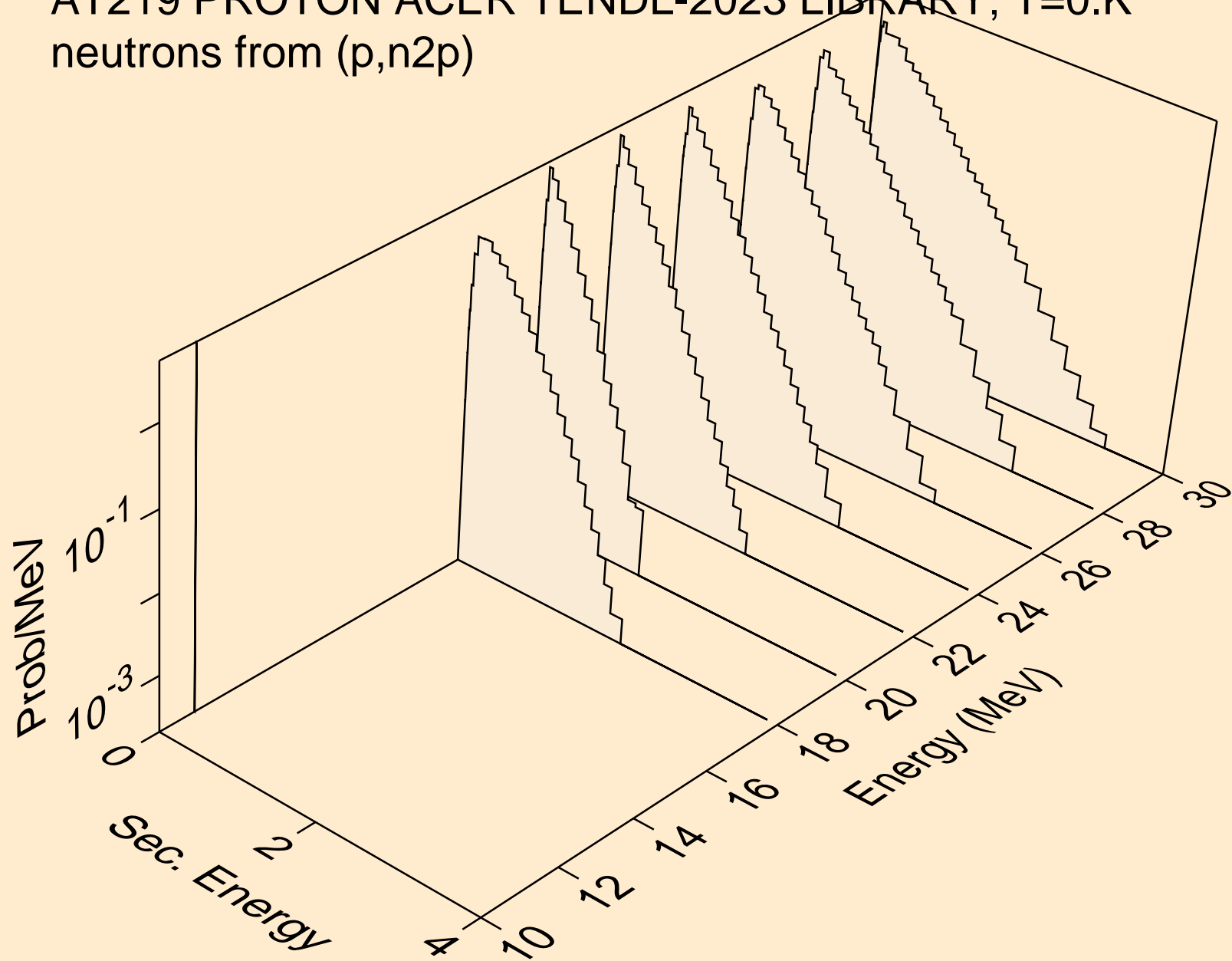
AT219 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (p,2np)



AT219 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (p,3np)

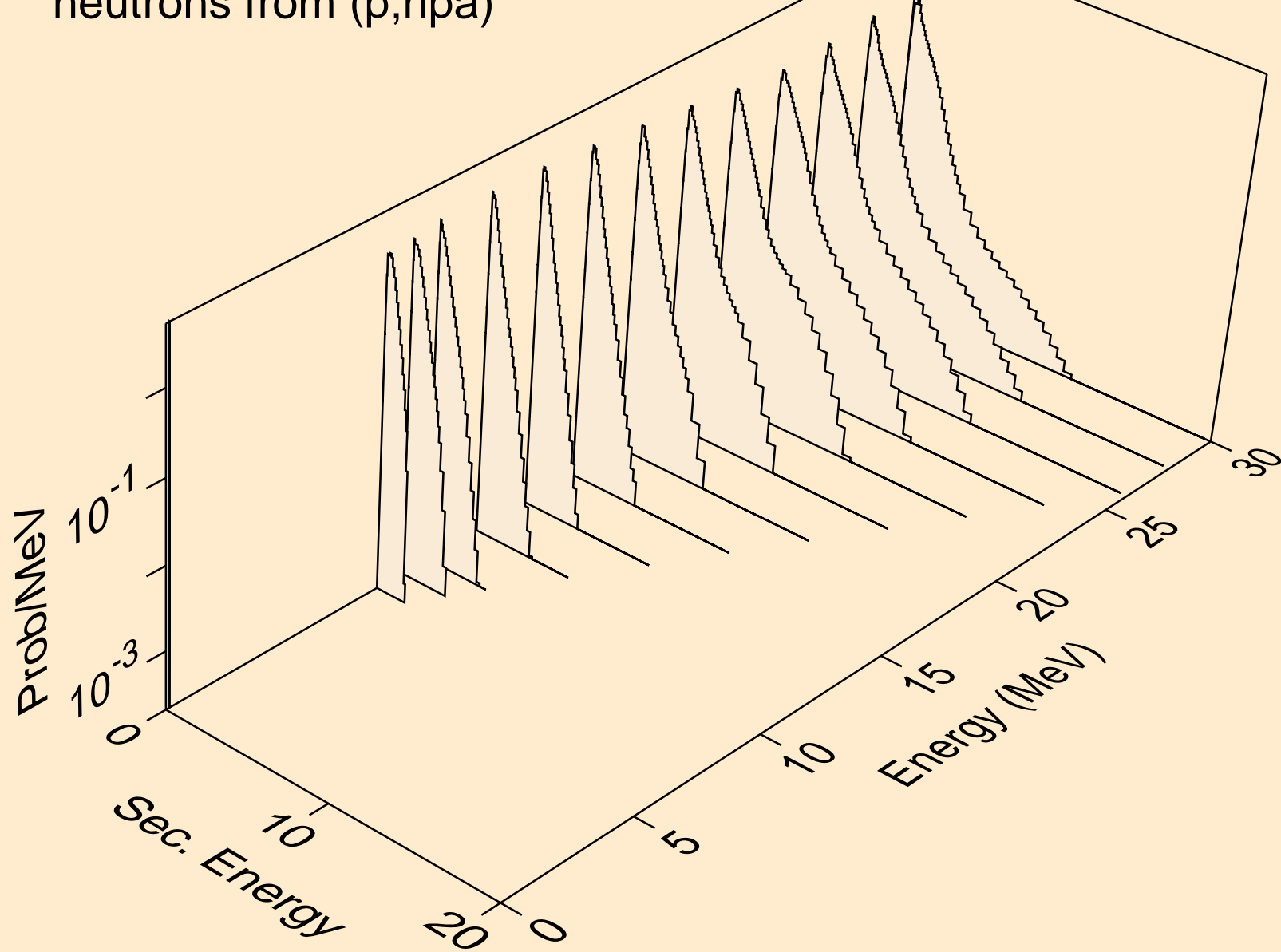


AT219 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (p,n2p)

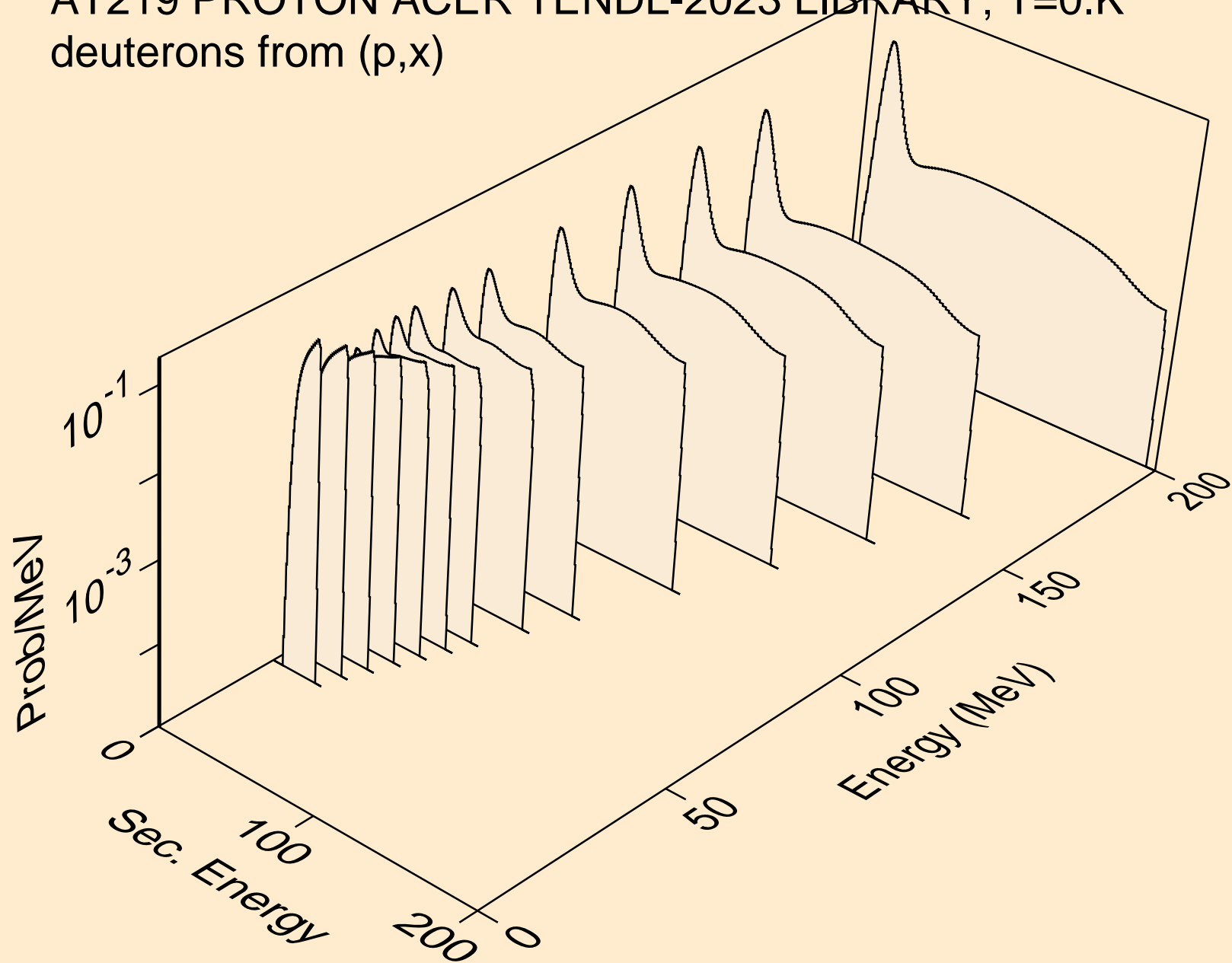




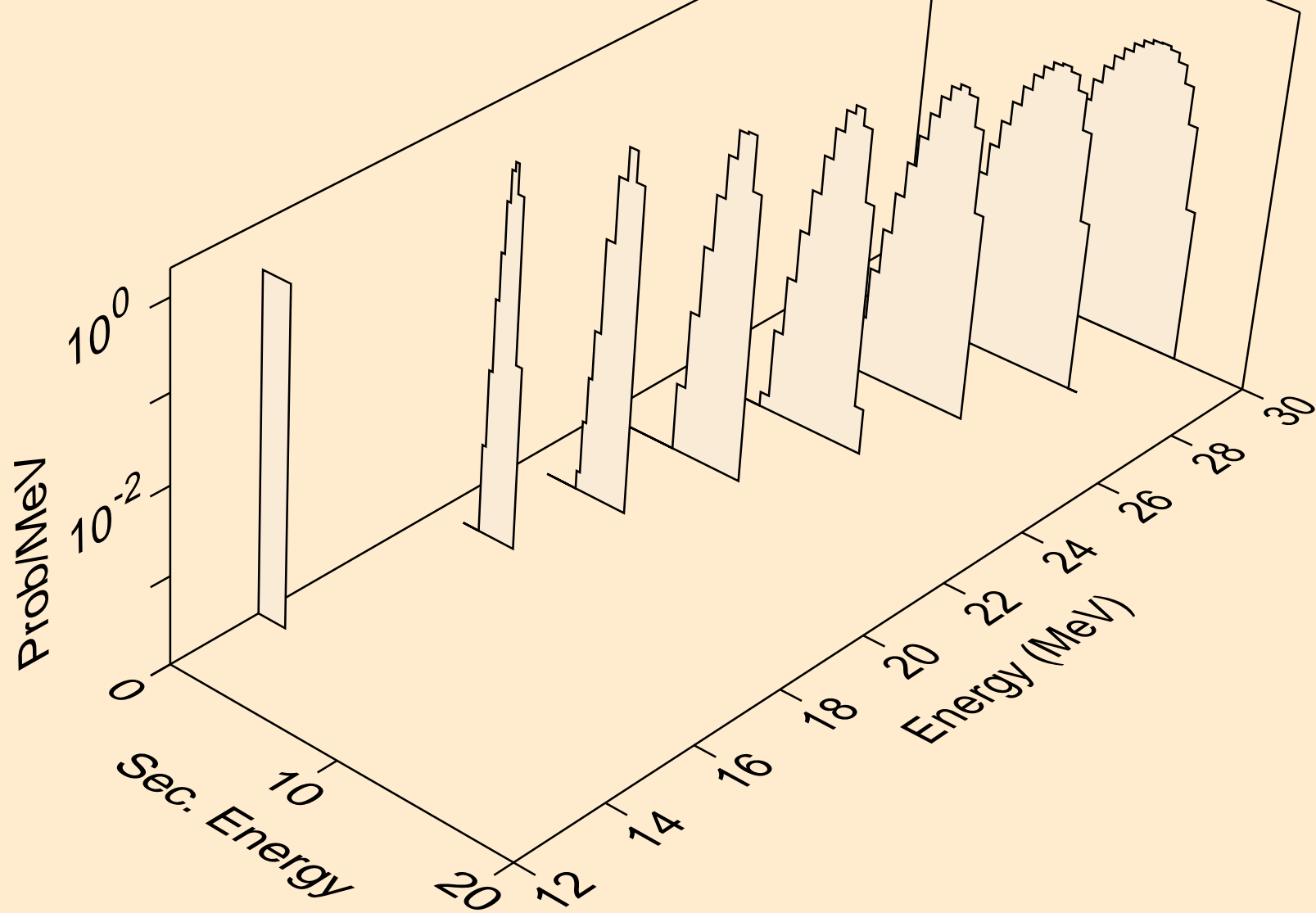
AT219 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (p,npa)



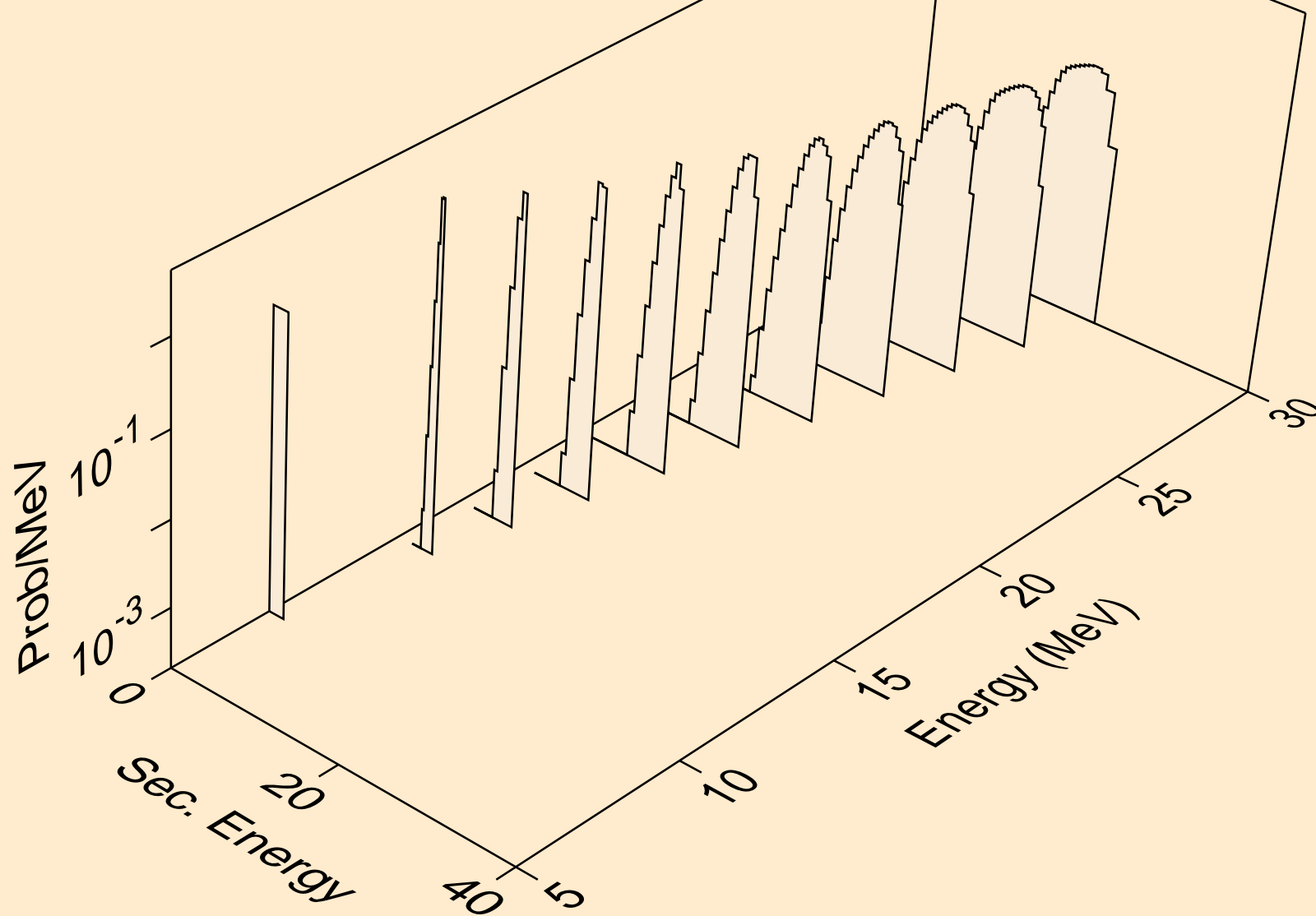
AT219 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
deuterons from (p,x)



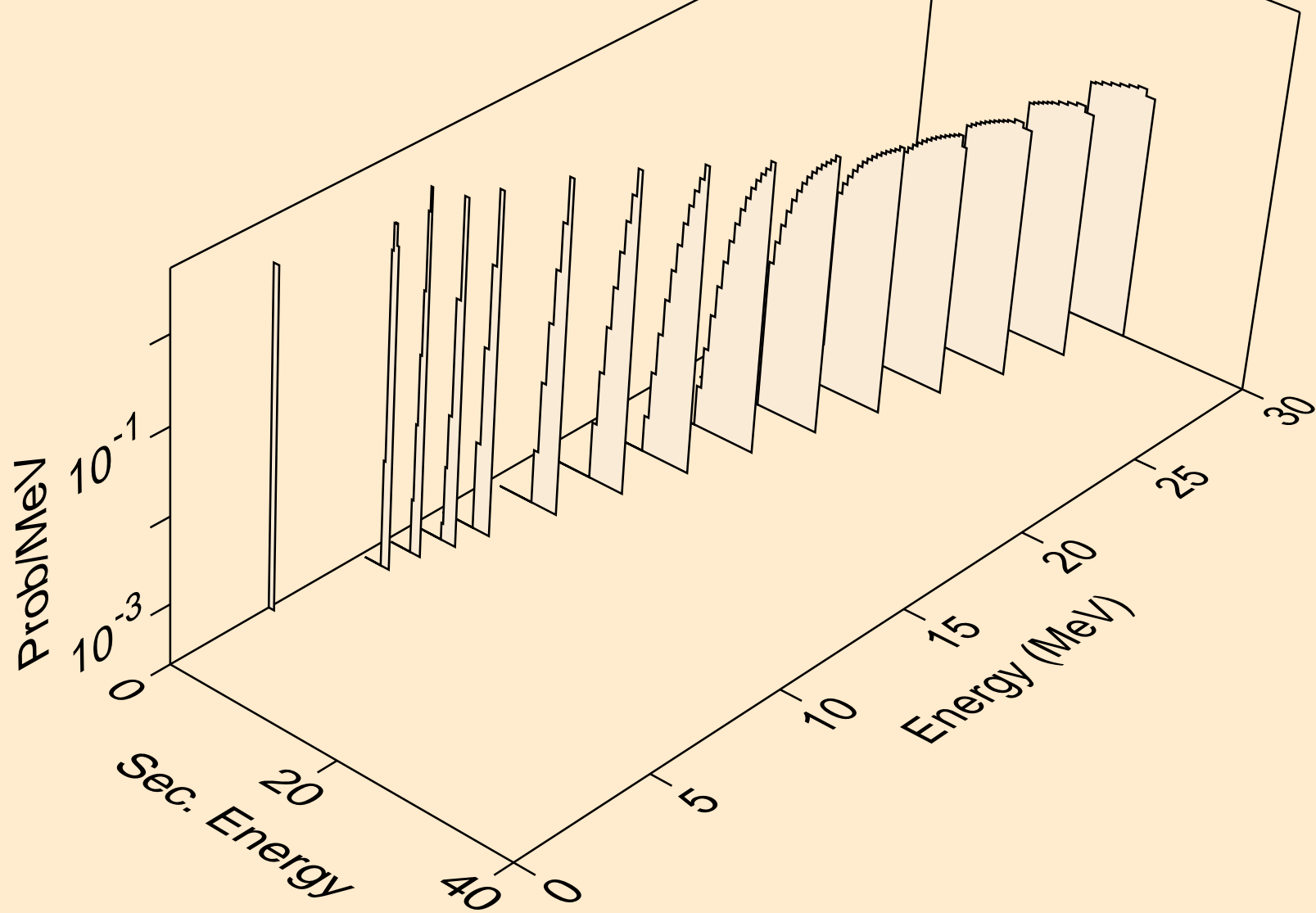
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deuterons from (p,2nd)



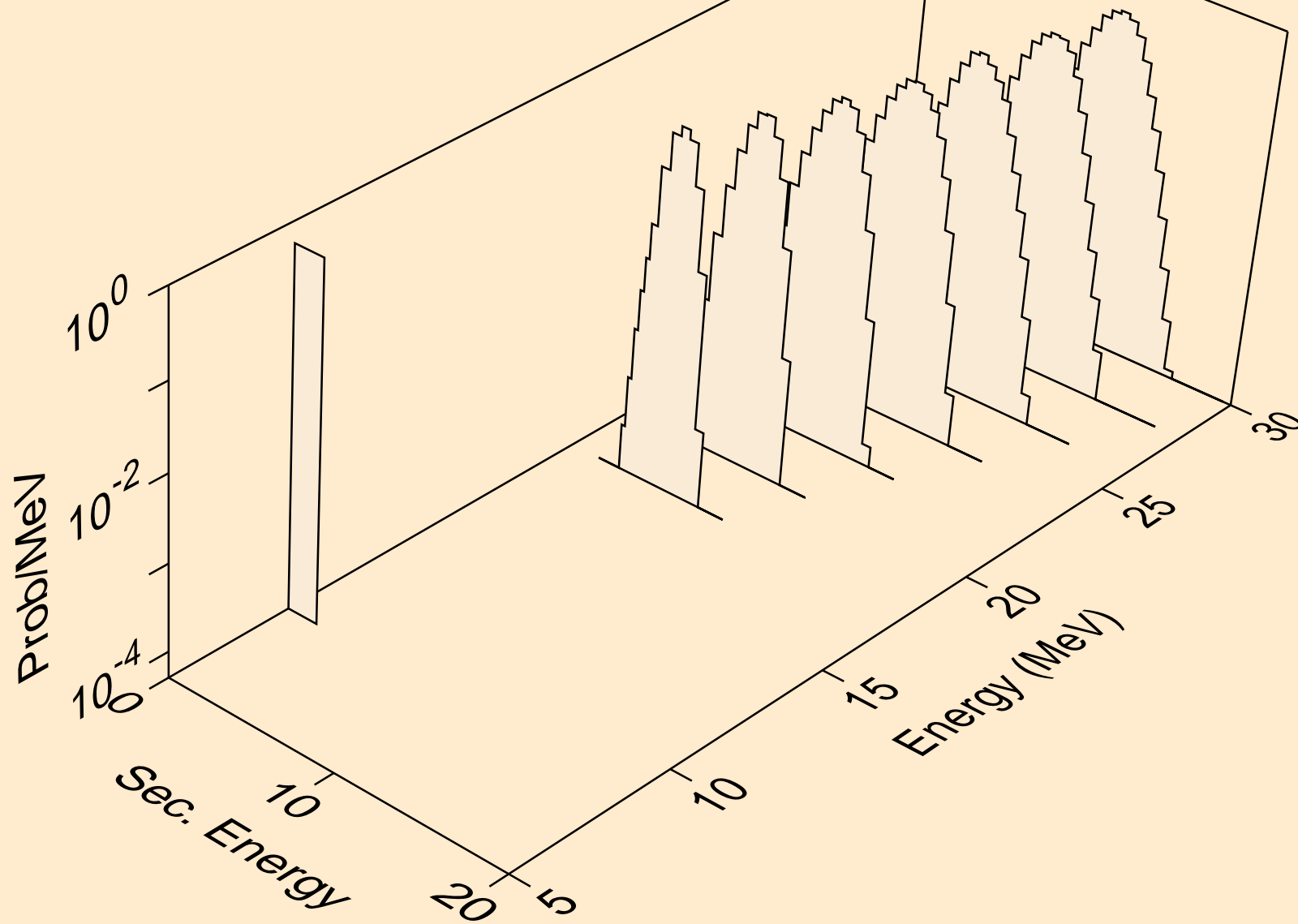
AT219 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
deuterons from (p,n\*)d



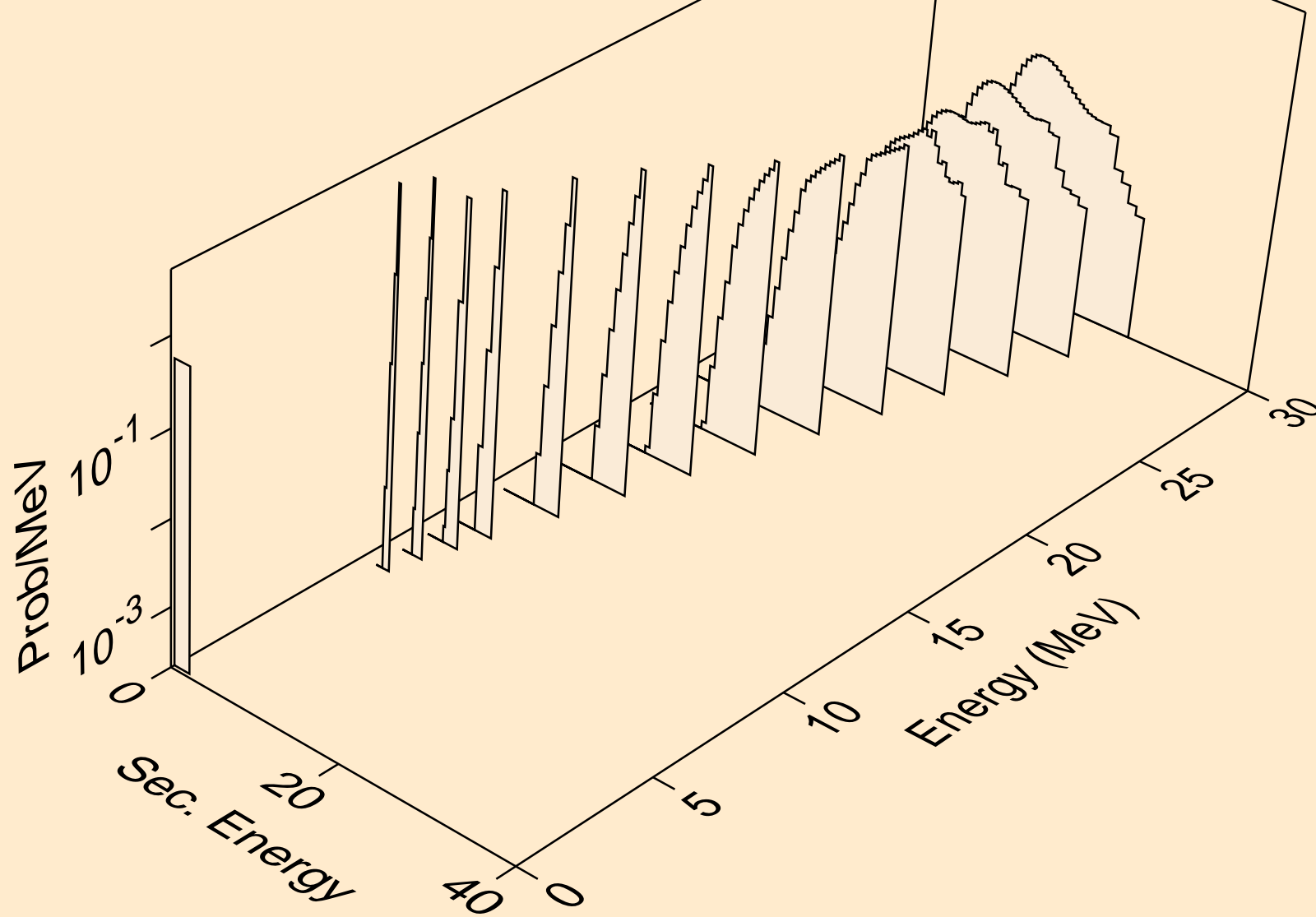
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deuterons from (p,d)



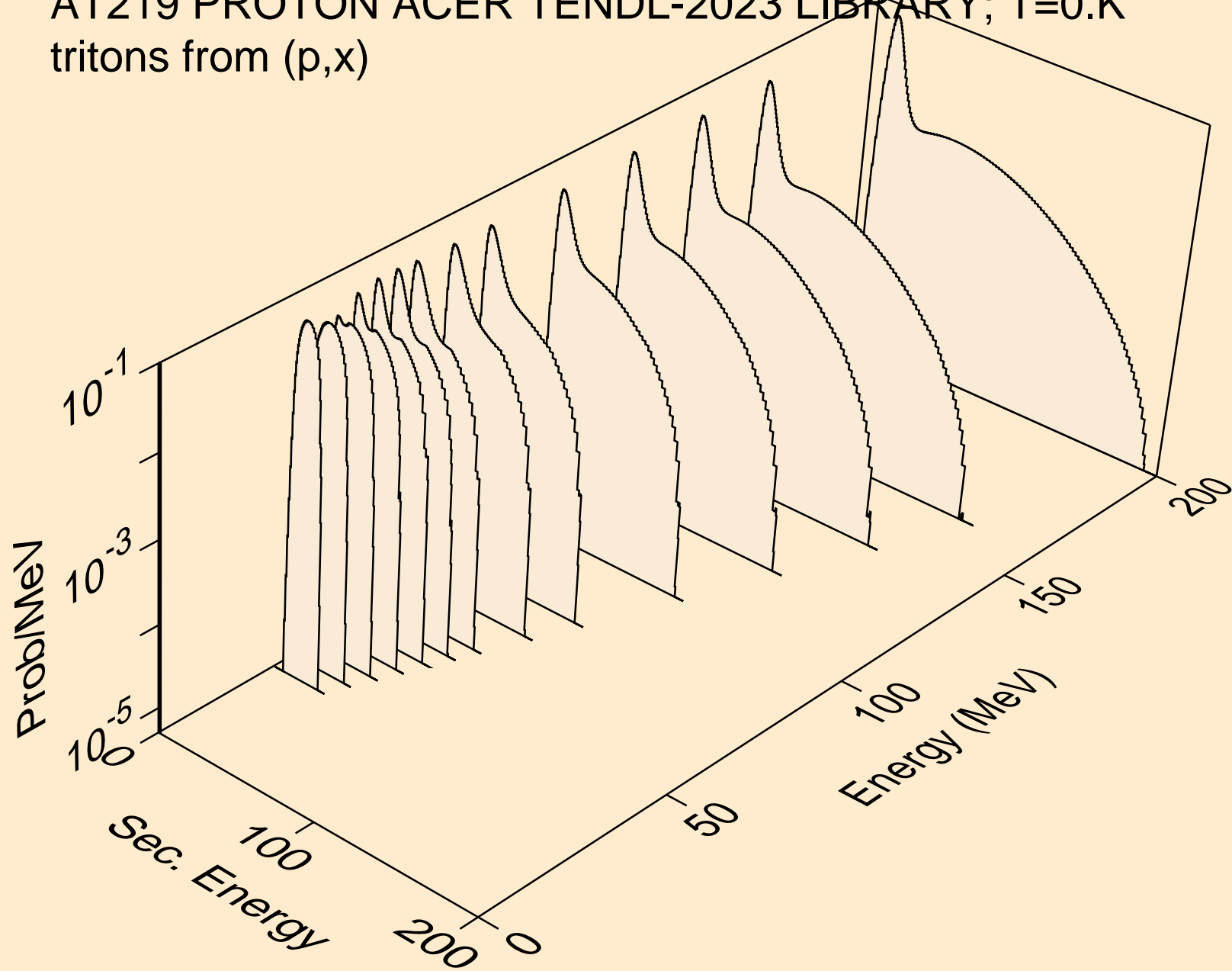
AT219 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
deuterons from (p,pd)



AT219 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
deuterons from (p,da)

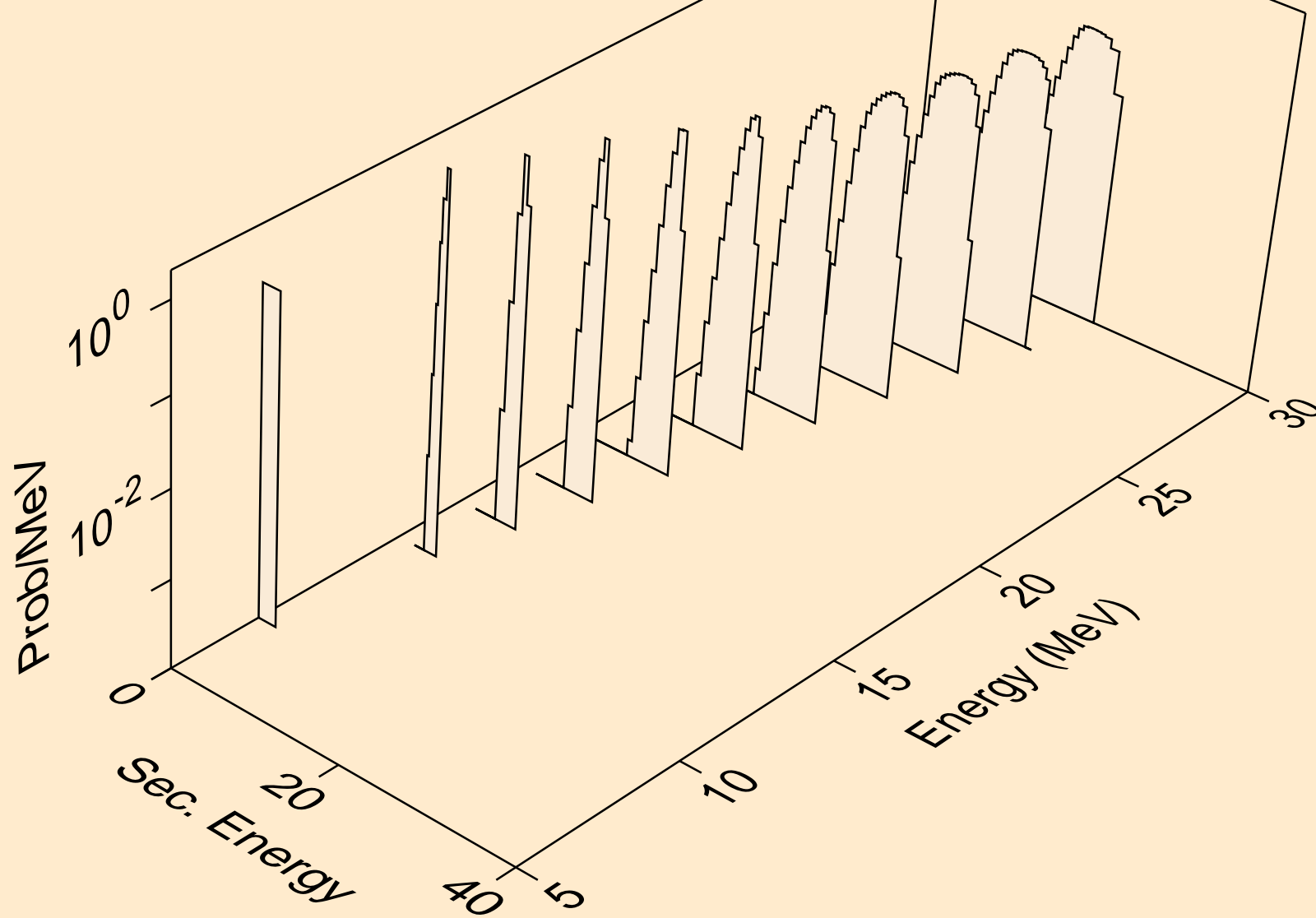


AT219 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
tritons from (p,x)

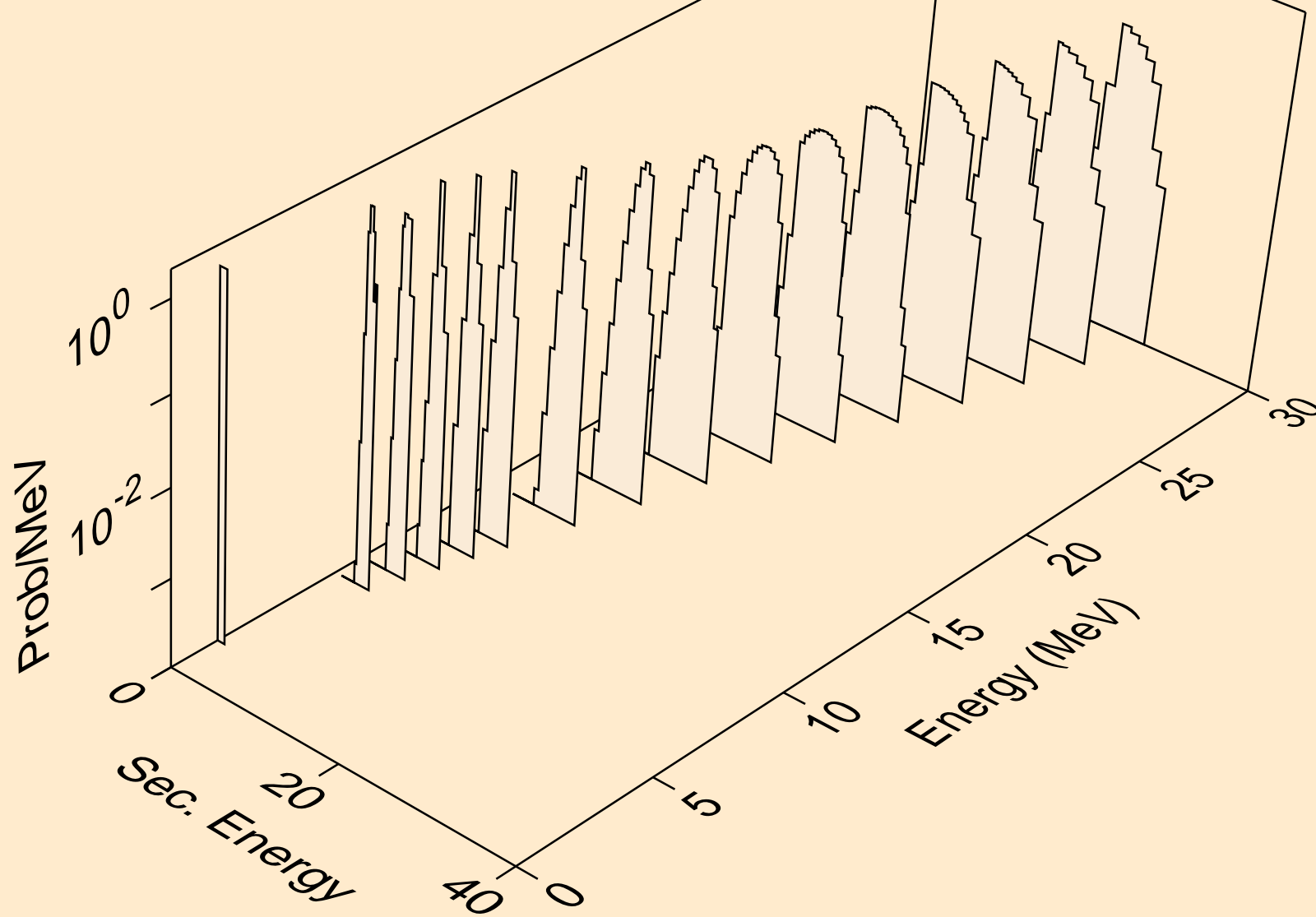




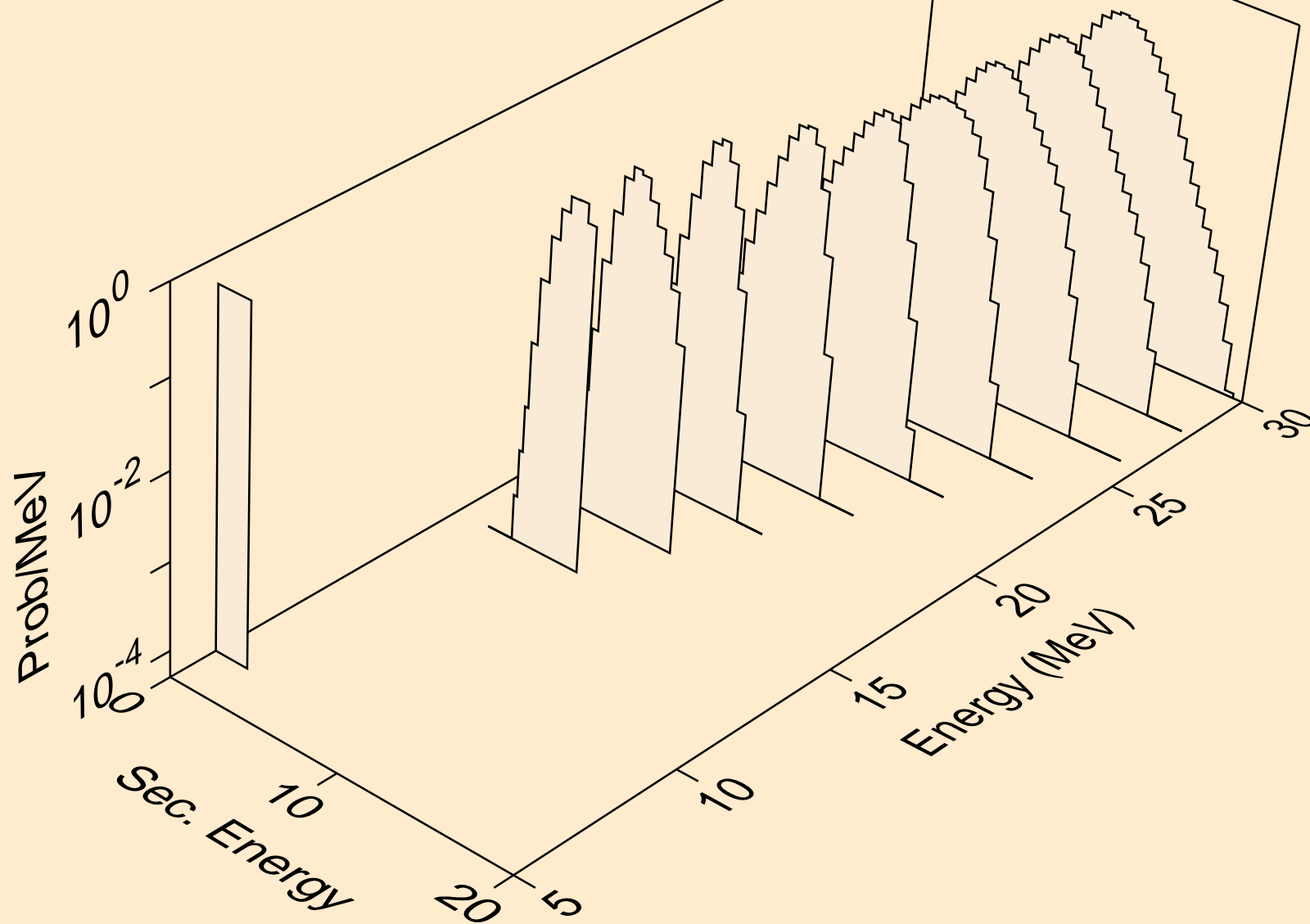
AT219 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
tritons from (p,n\*)t



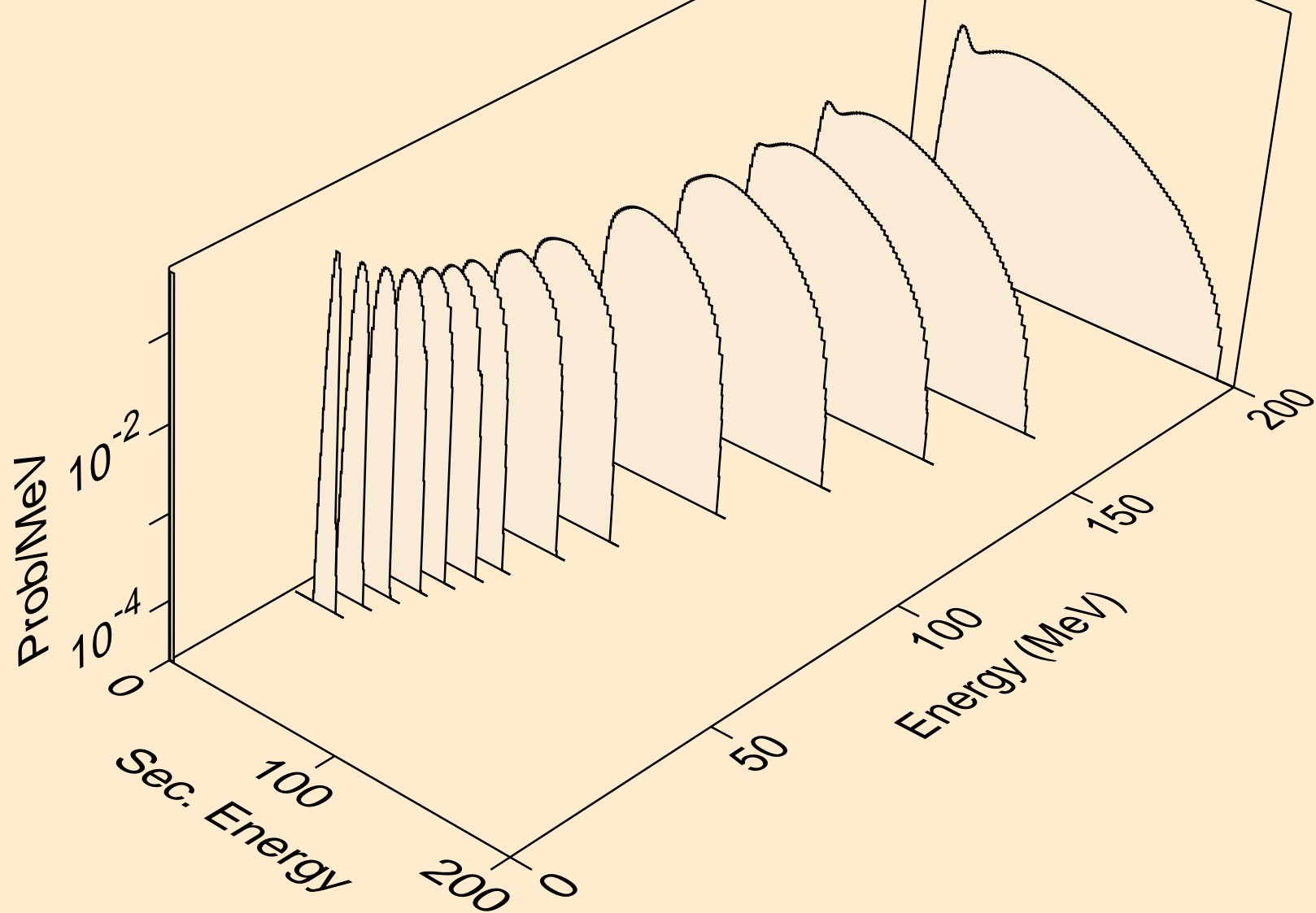
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tritons from (p,t)



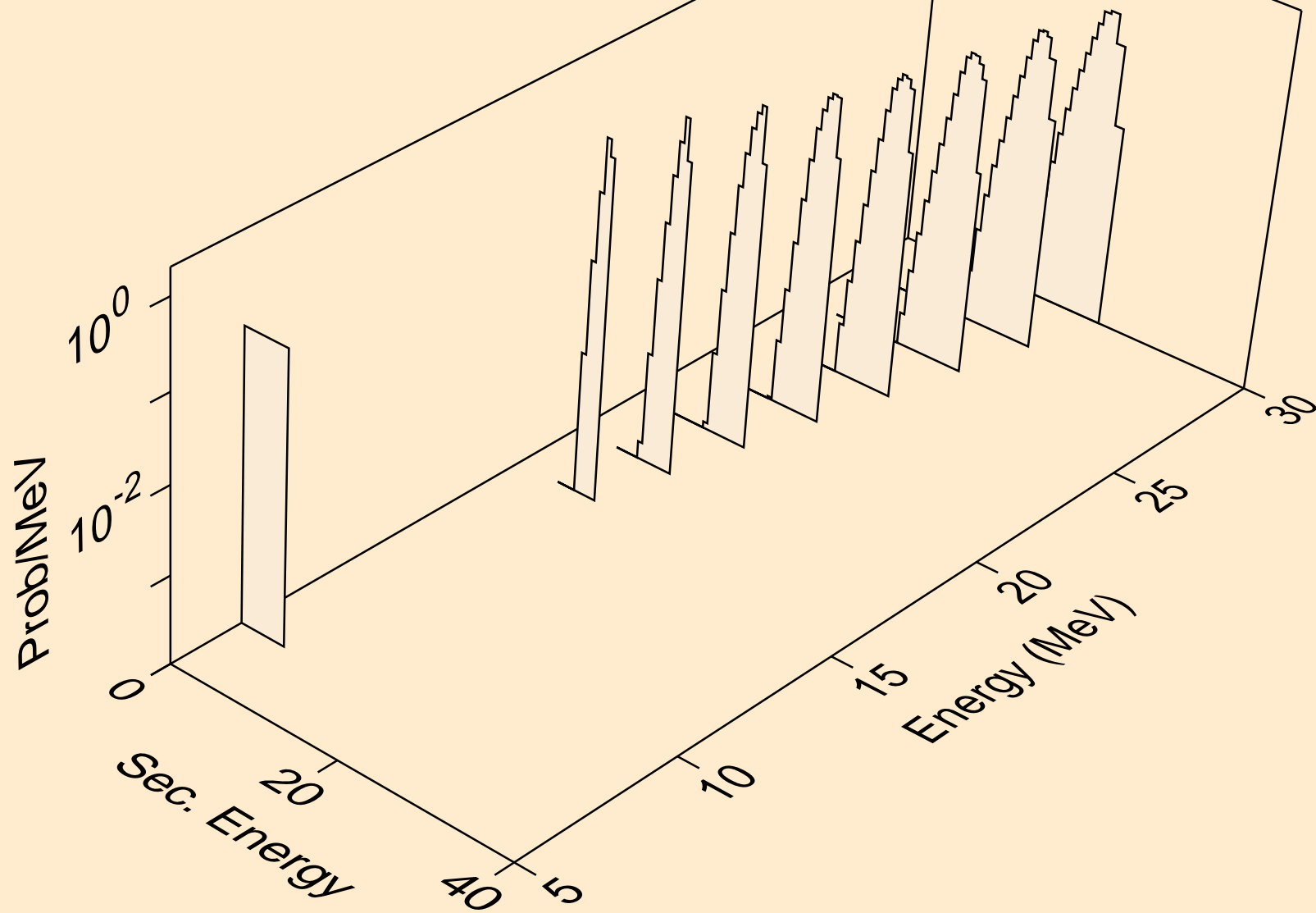
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tritons from (p,pt)



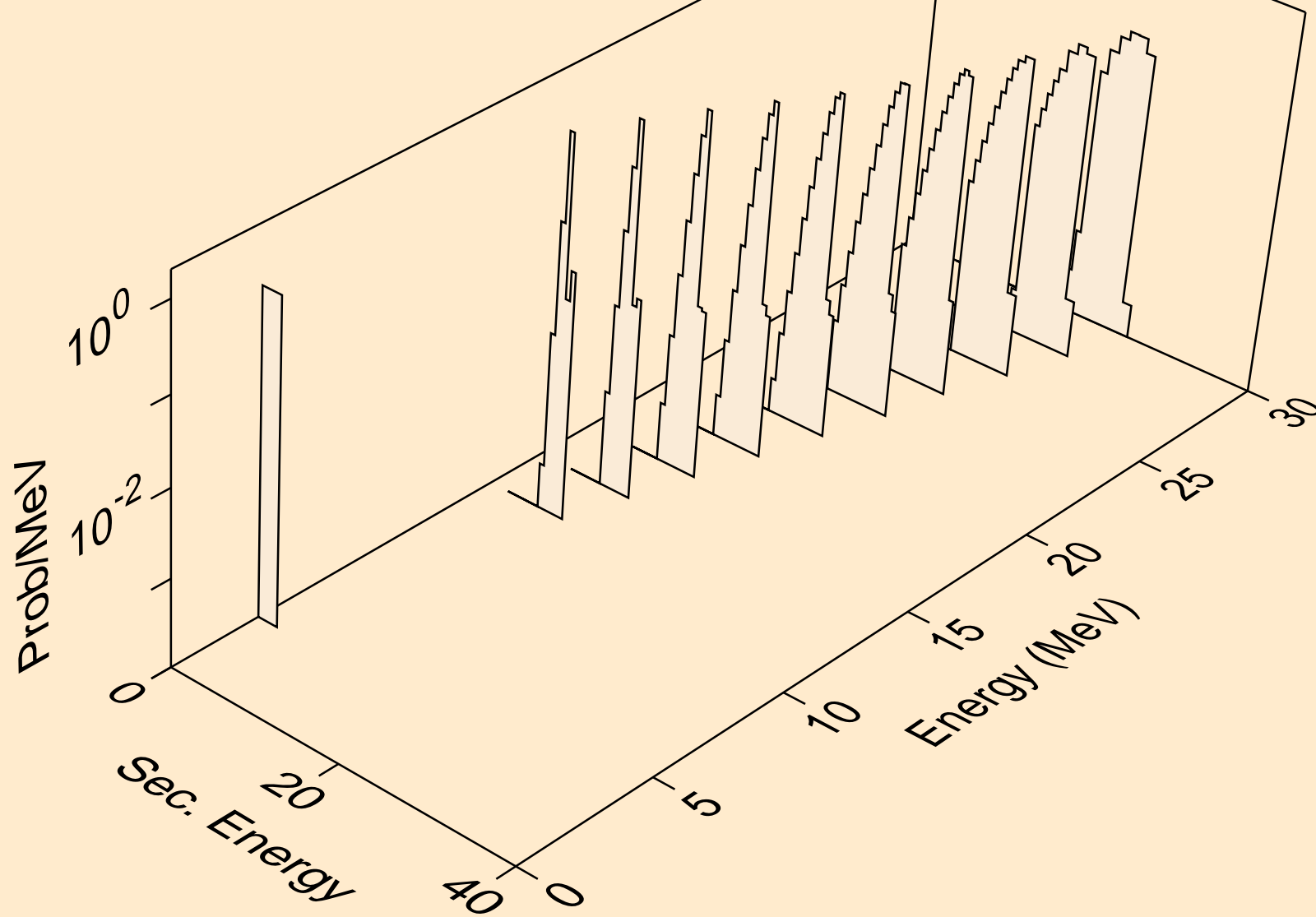
AT219 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
he3s from (p,x)



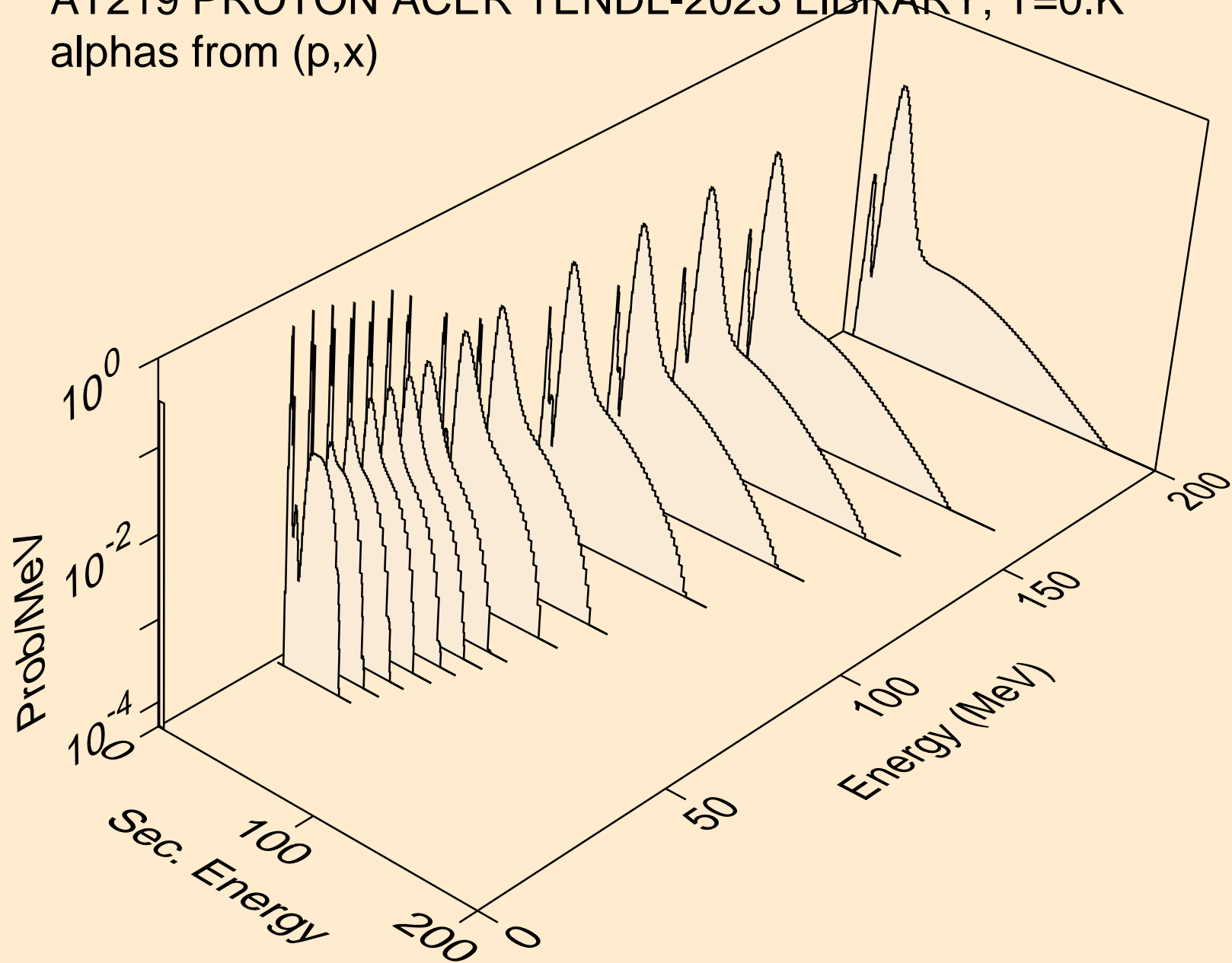
AT219 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
he3s from (p,n\*)he3



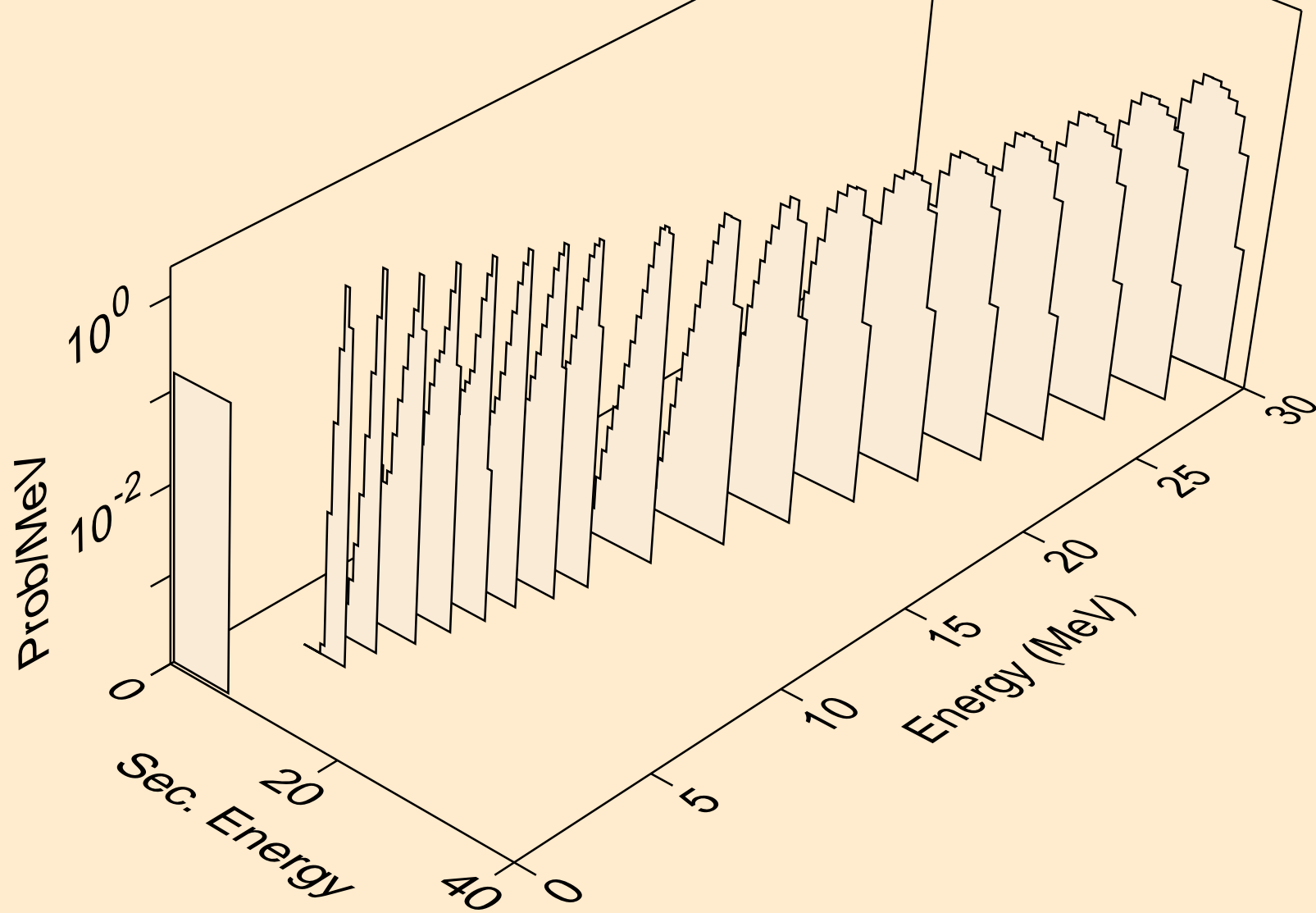
AT219 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
he3s from (p,he3)



AT219 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (p,x)

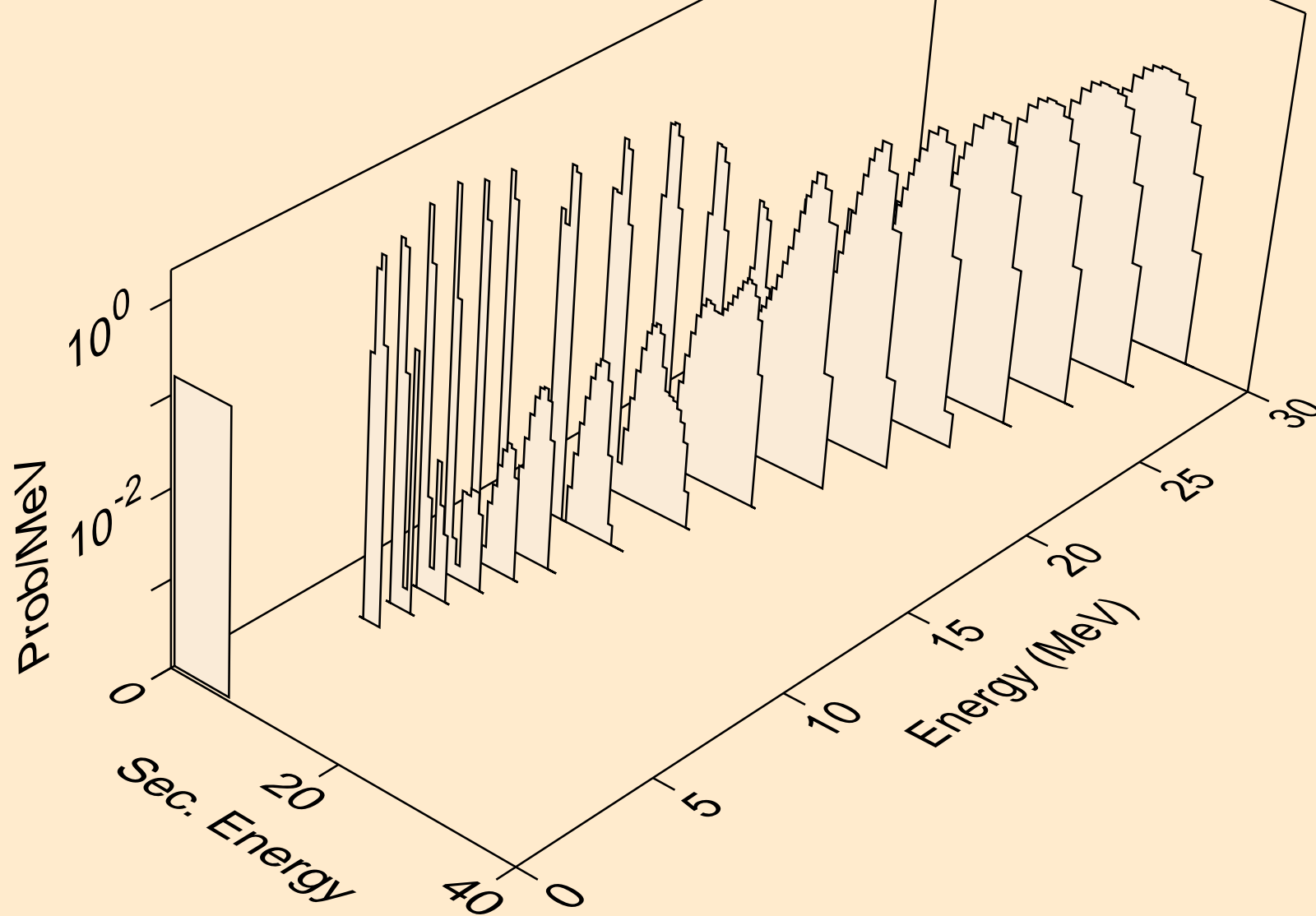


AT219 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (p,n\*)a

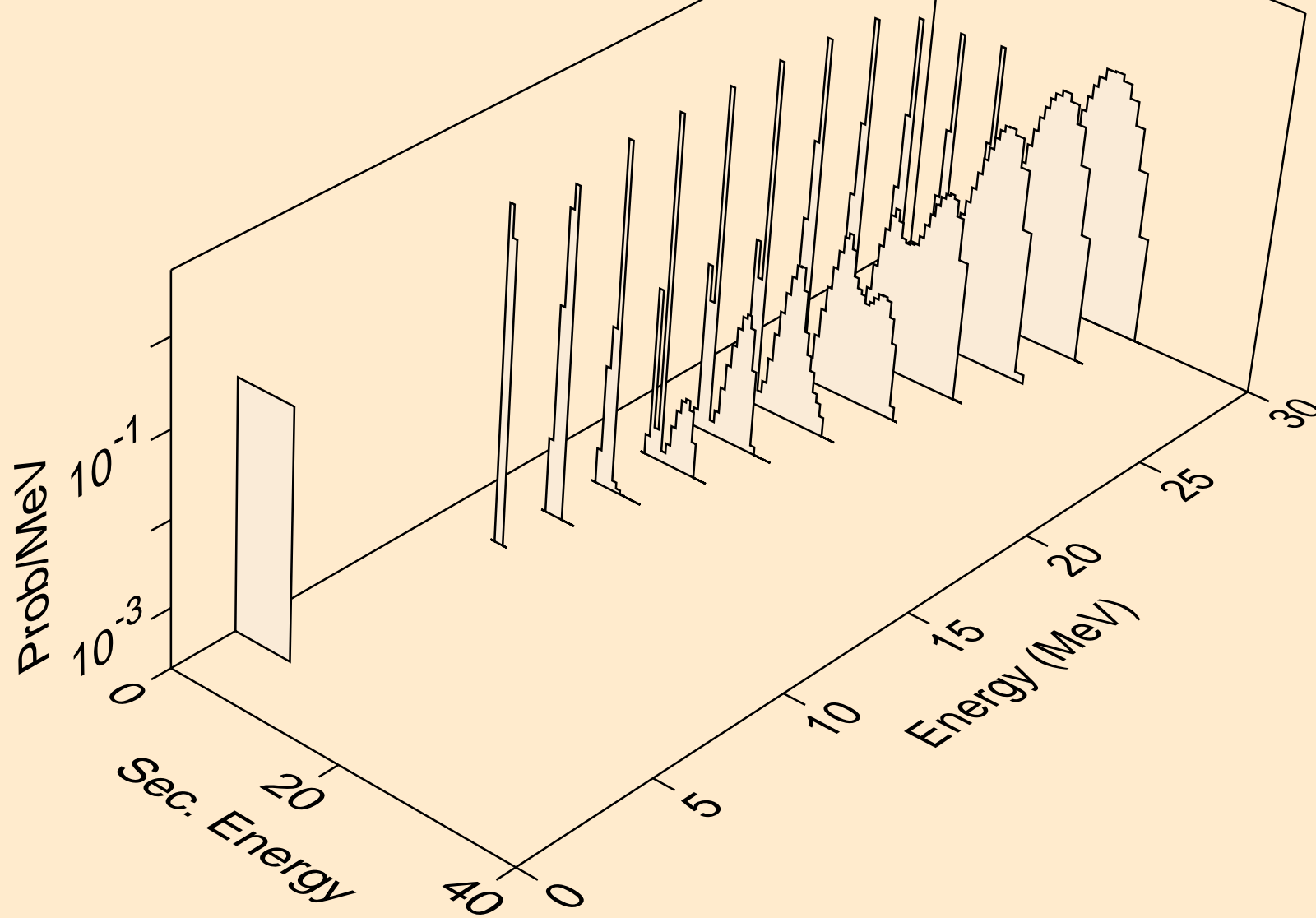




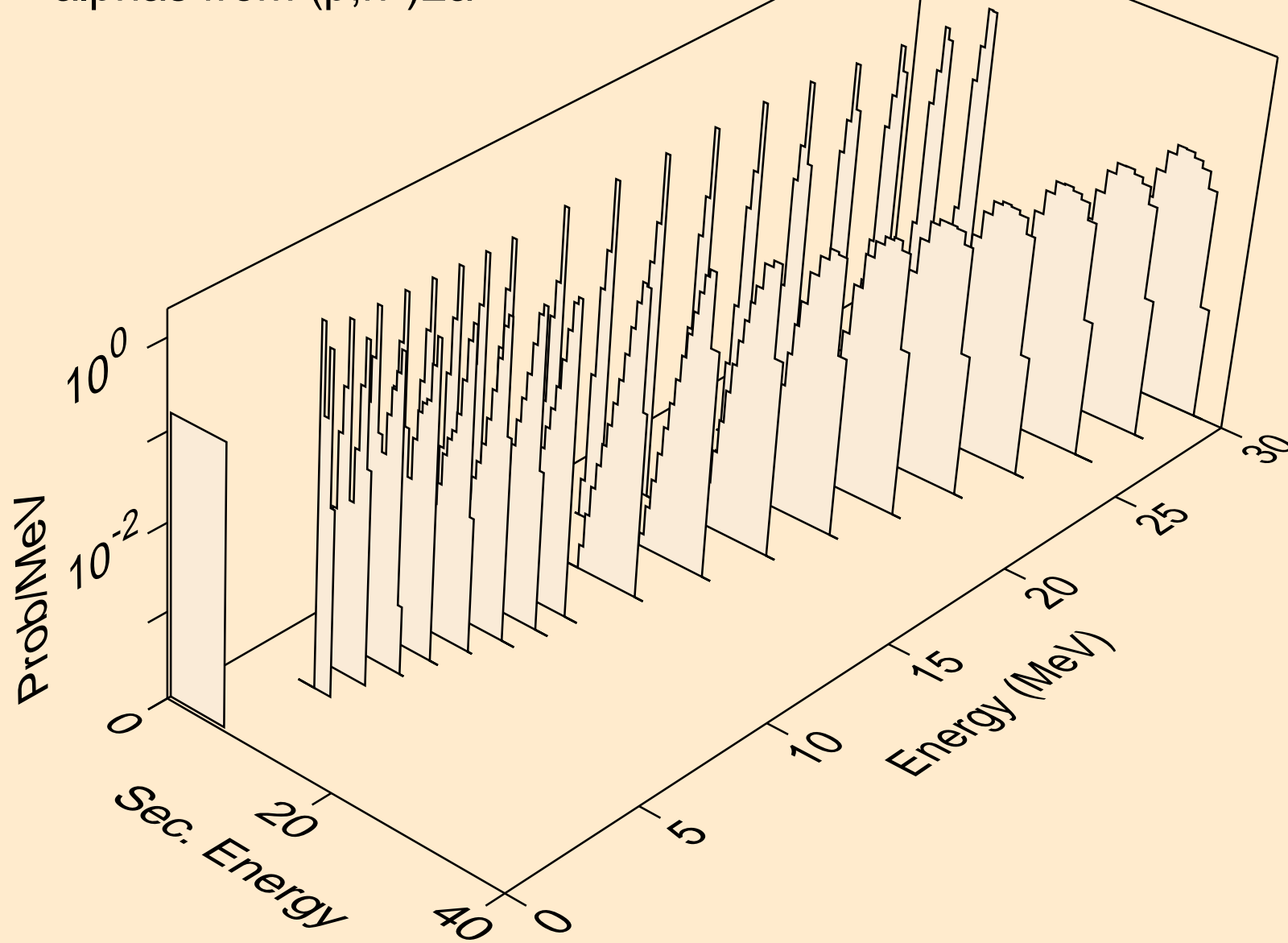
AT219 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (p,2n)a



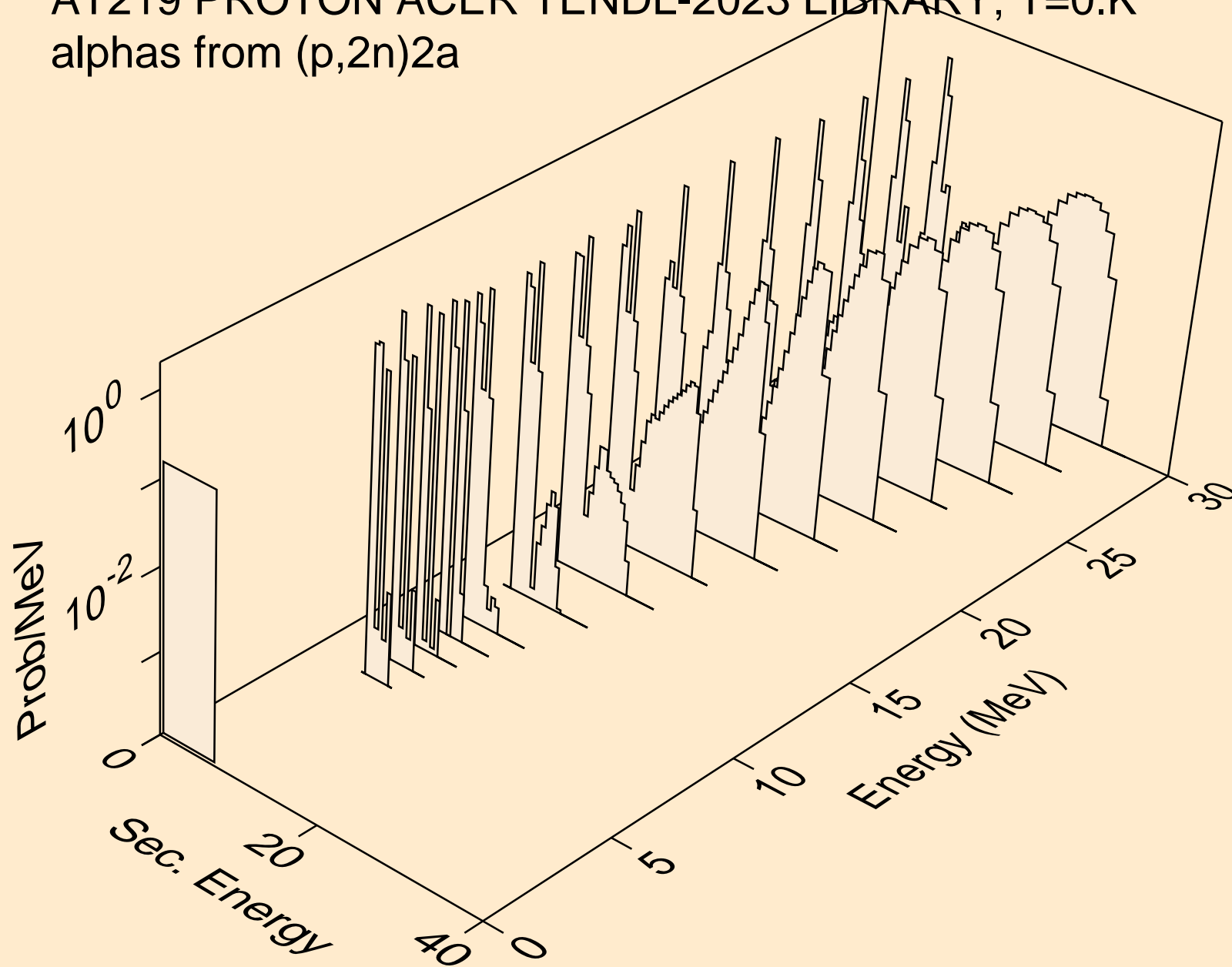
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alphas from (p,3n)a



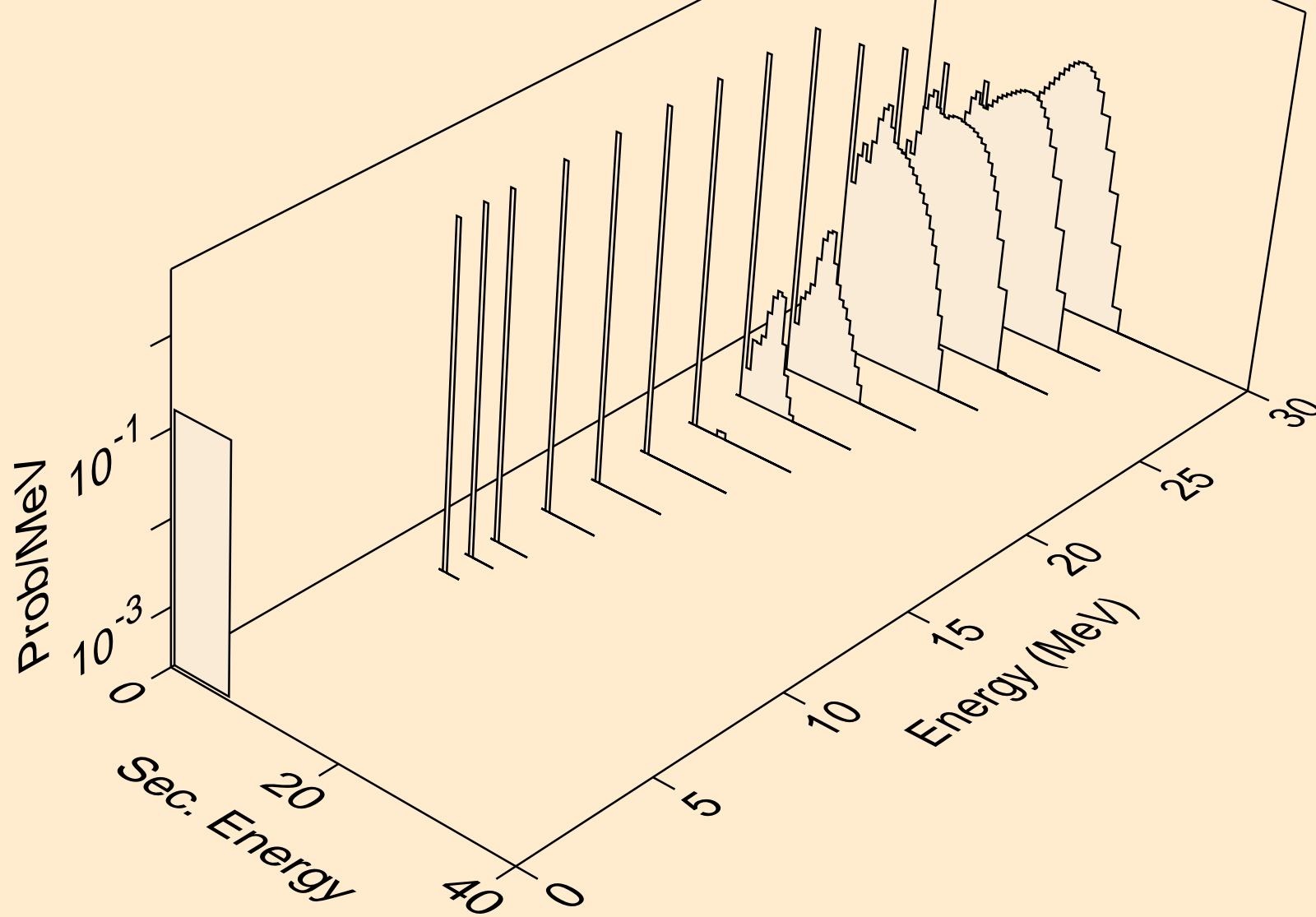
AT219 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (p,n\*)2a



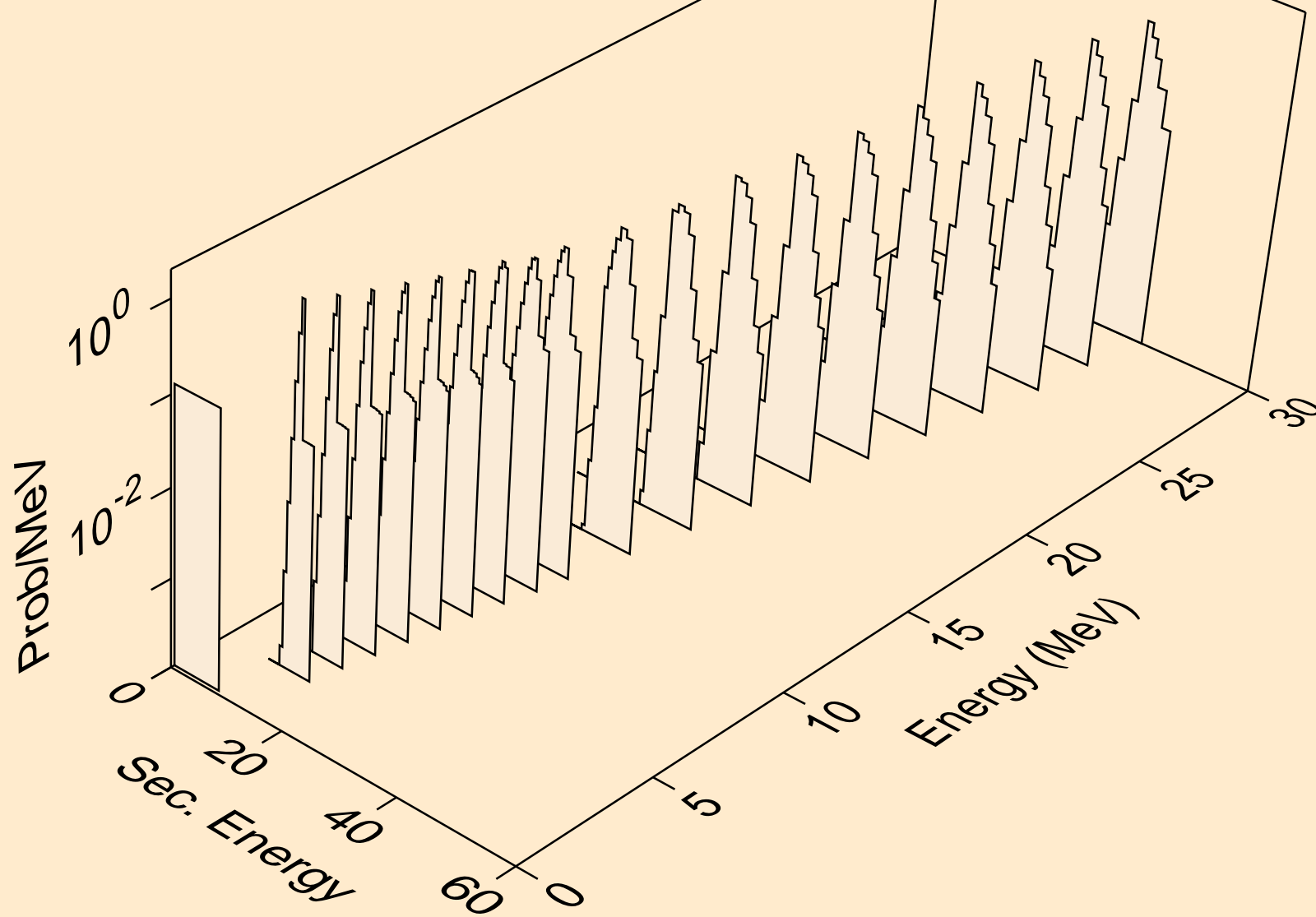
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alphas from (p,2n)2a



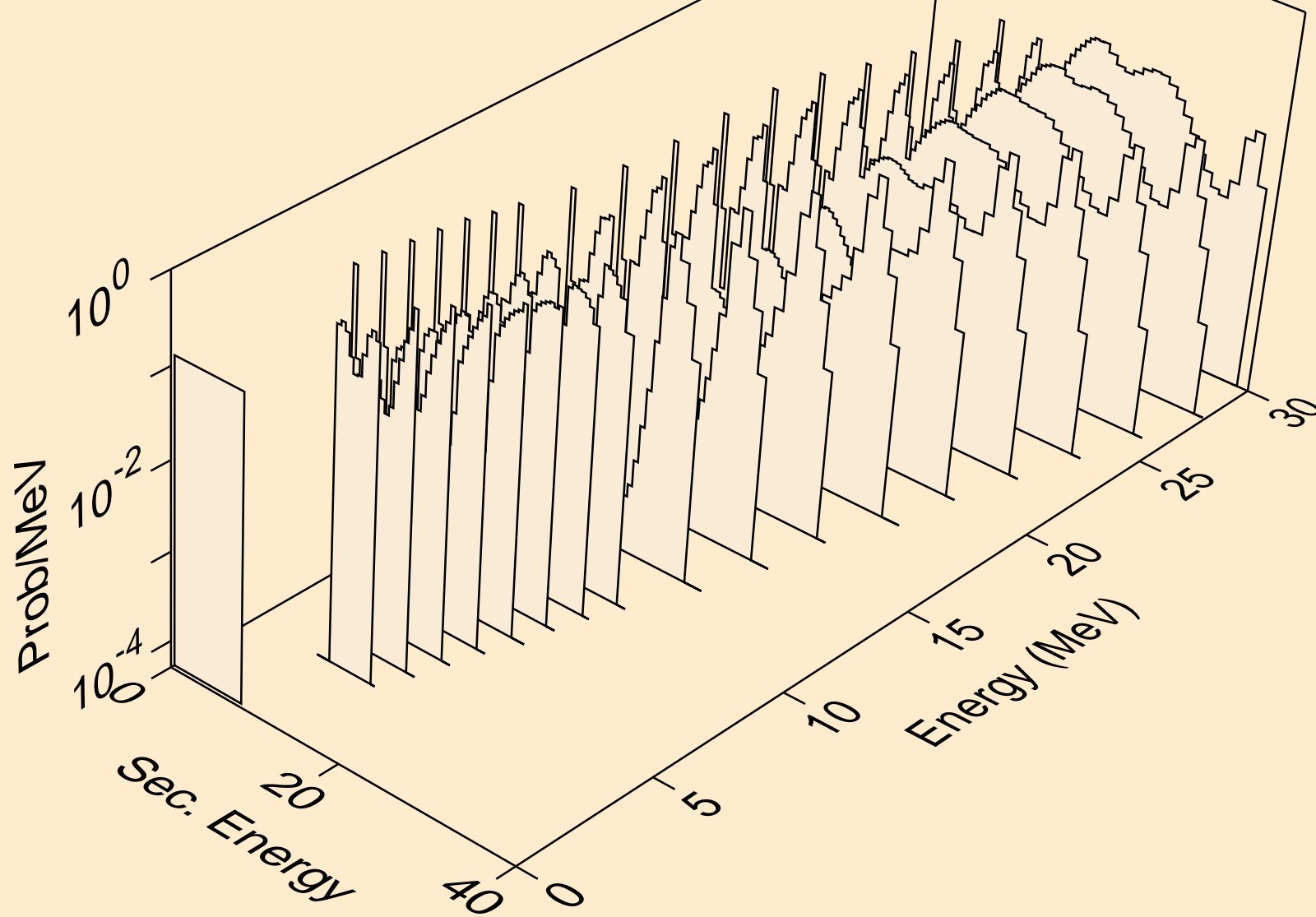
AT219 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (p,npa)



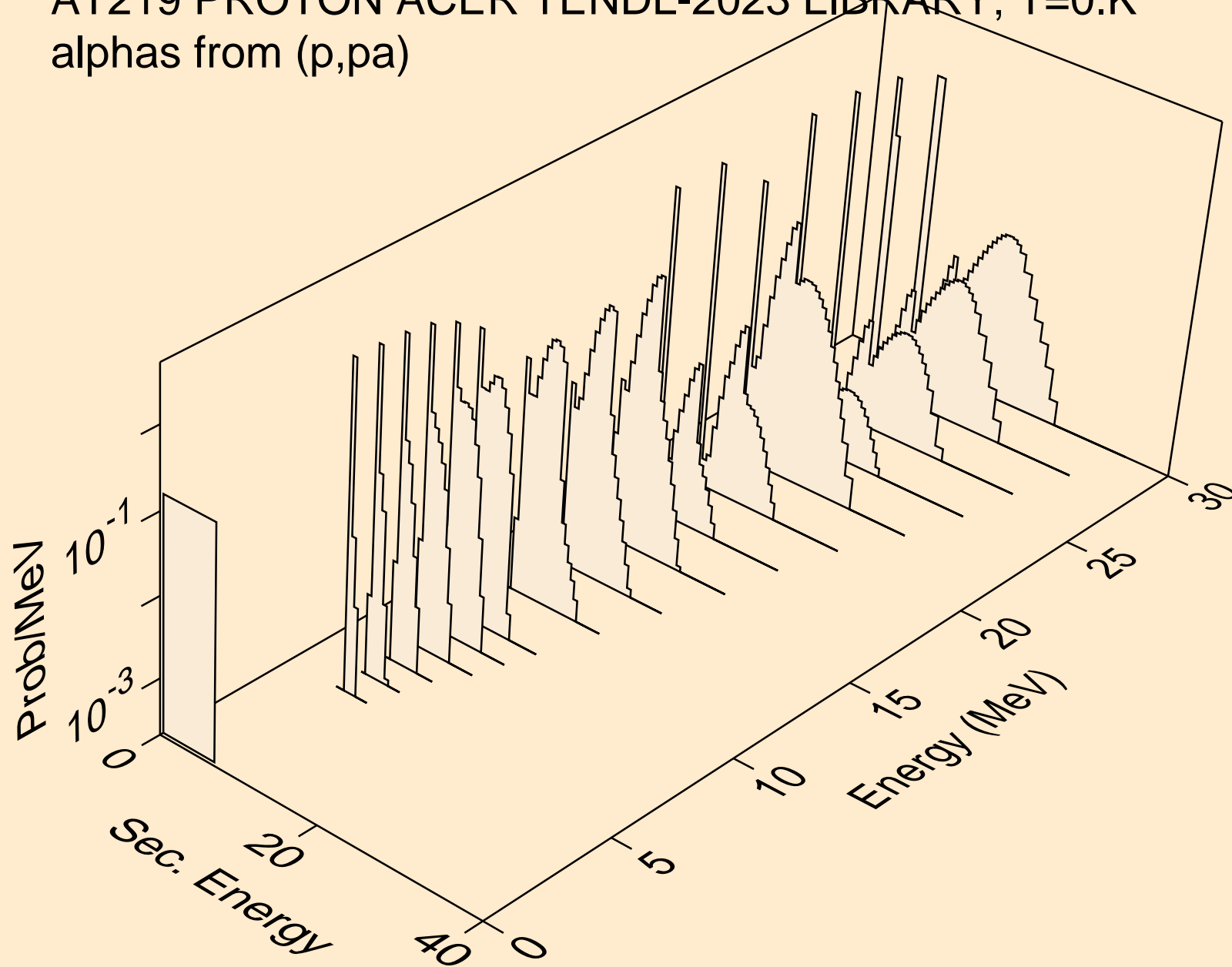
AT219 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (p,a)



AT219 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (p,2a)



AT219 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (p,pa)





AT219 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (p,da)

