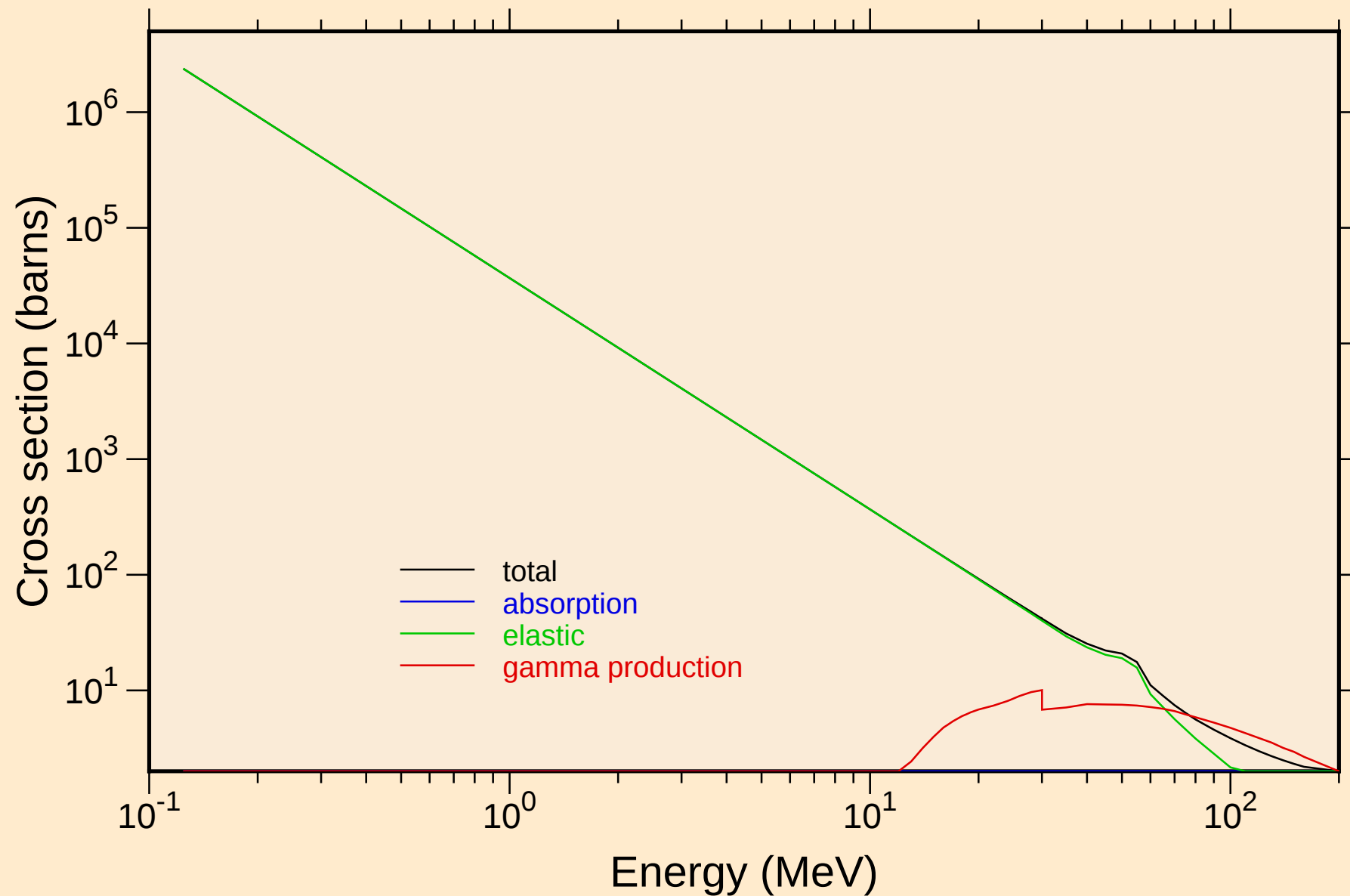


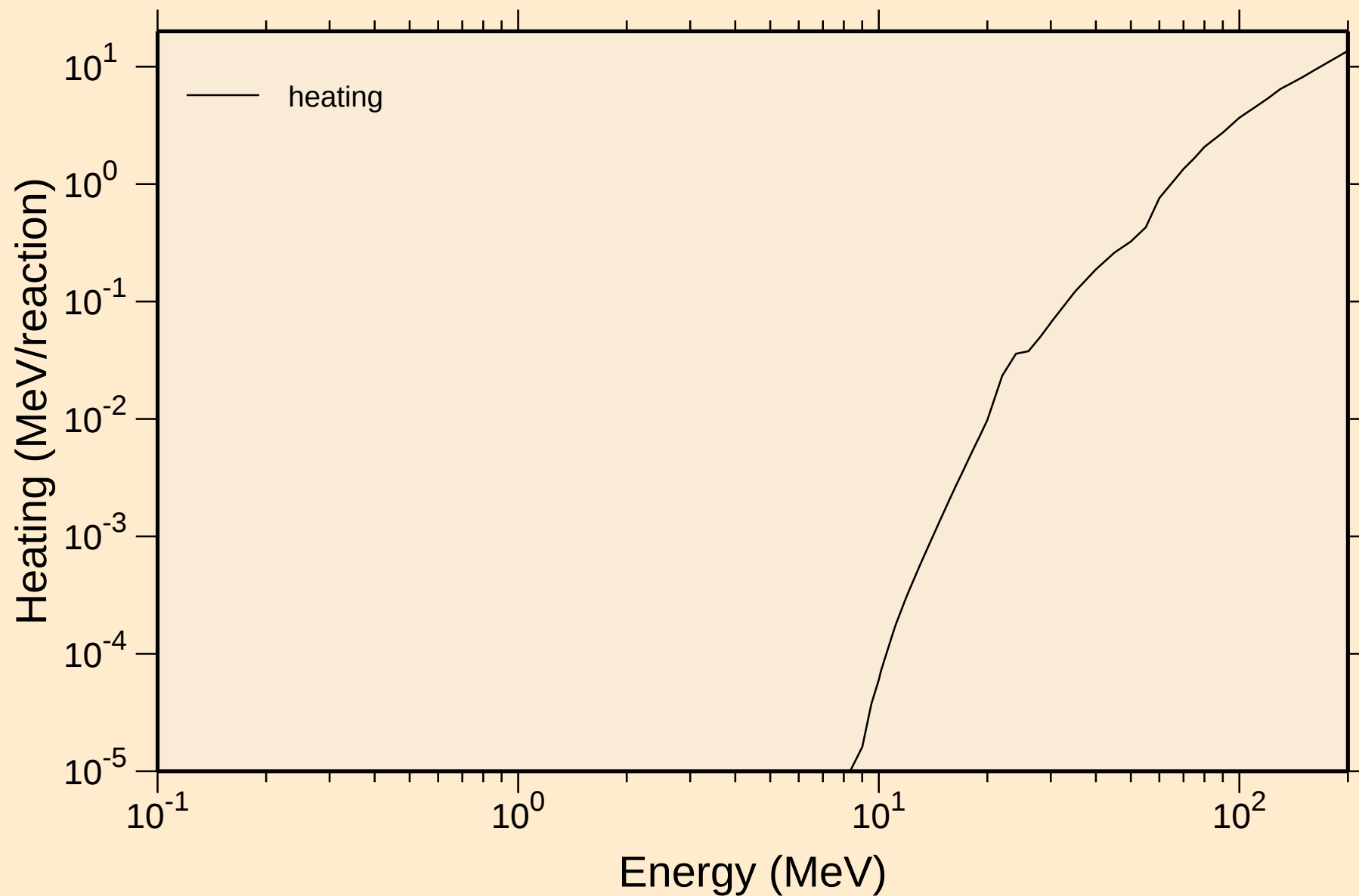
# IR178 PROTON ACER TENDL-2021 LIBRARY; T=0.K

## Principal cross sections



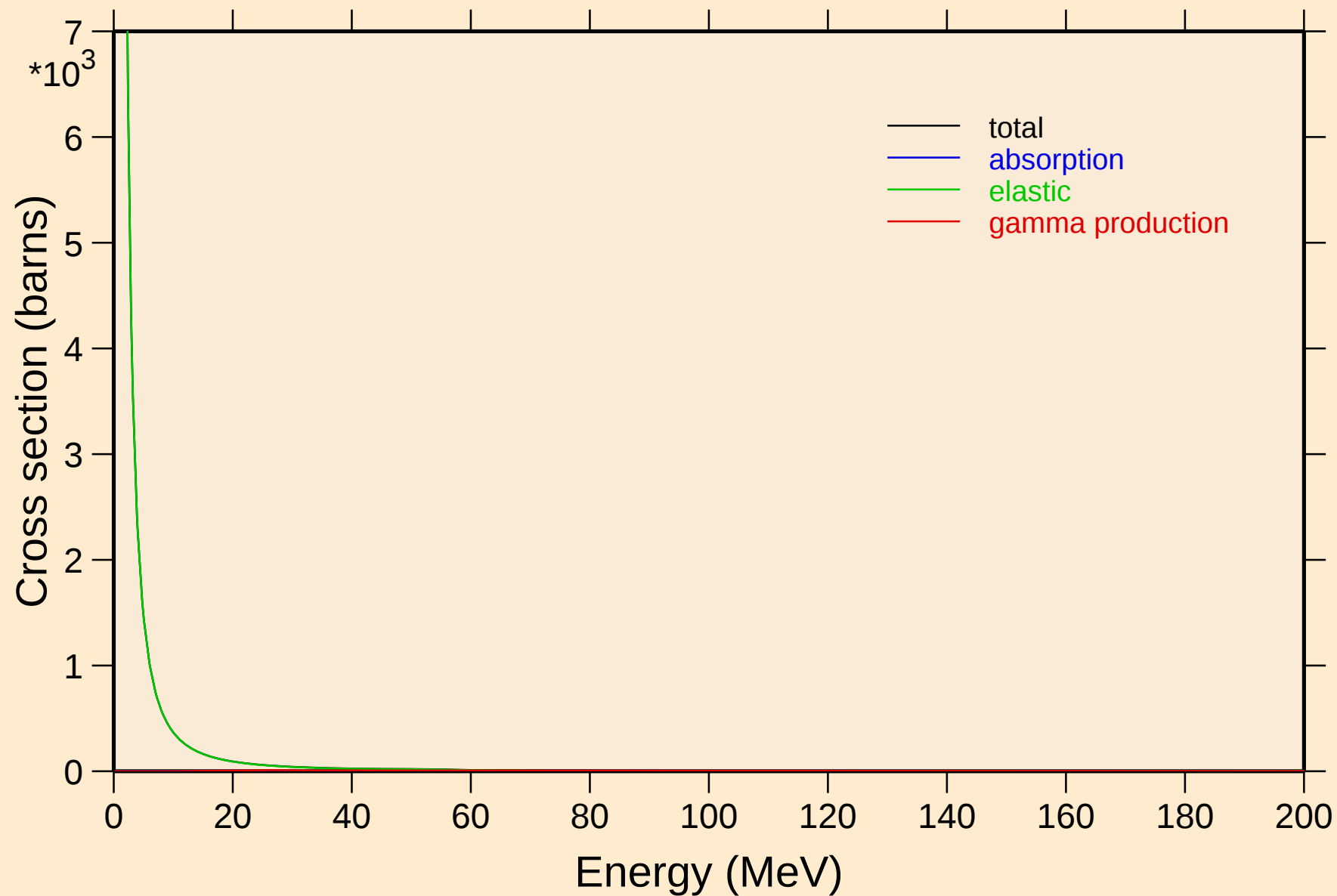
# IR178 PROTON ACER TENDL-2021 LIBRARY; T=0.K

Heating



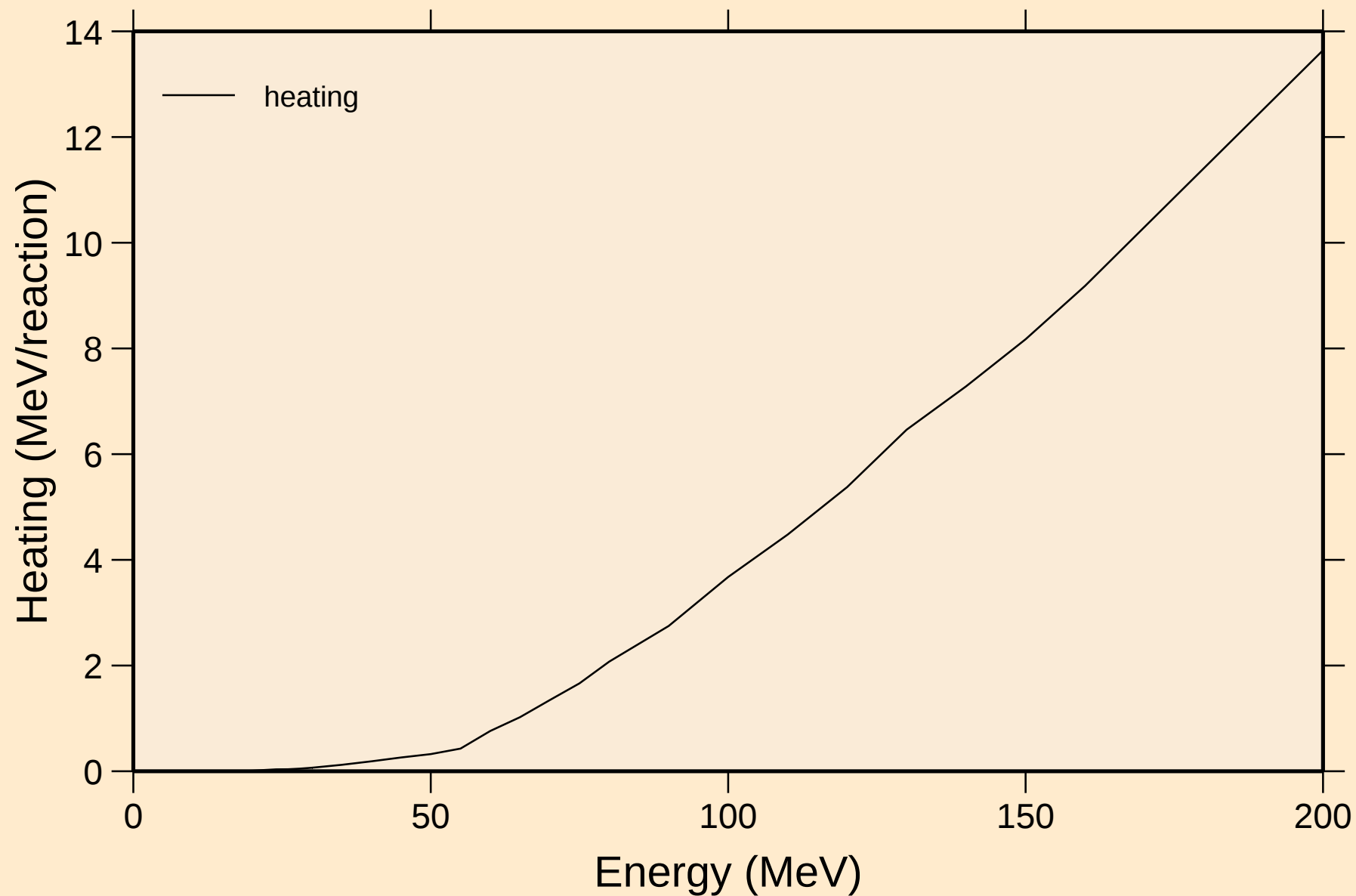
# IR178 PROTON ACER TENDL-2021 LIBRARY; T=0.K

## Principal cross sections



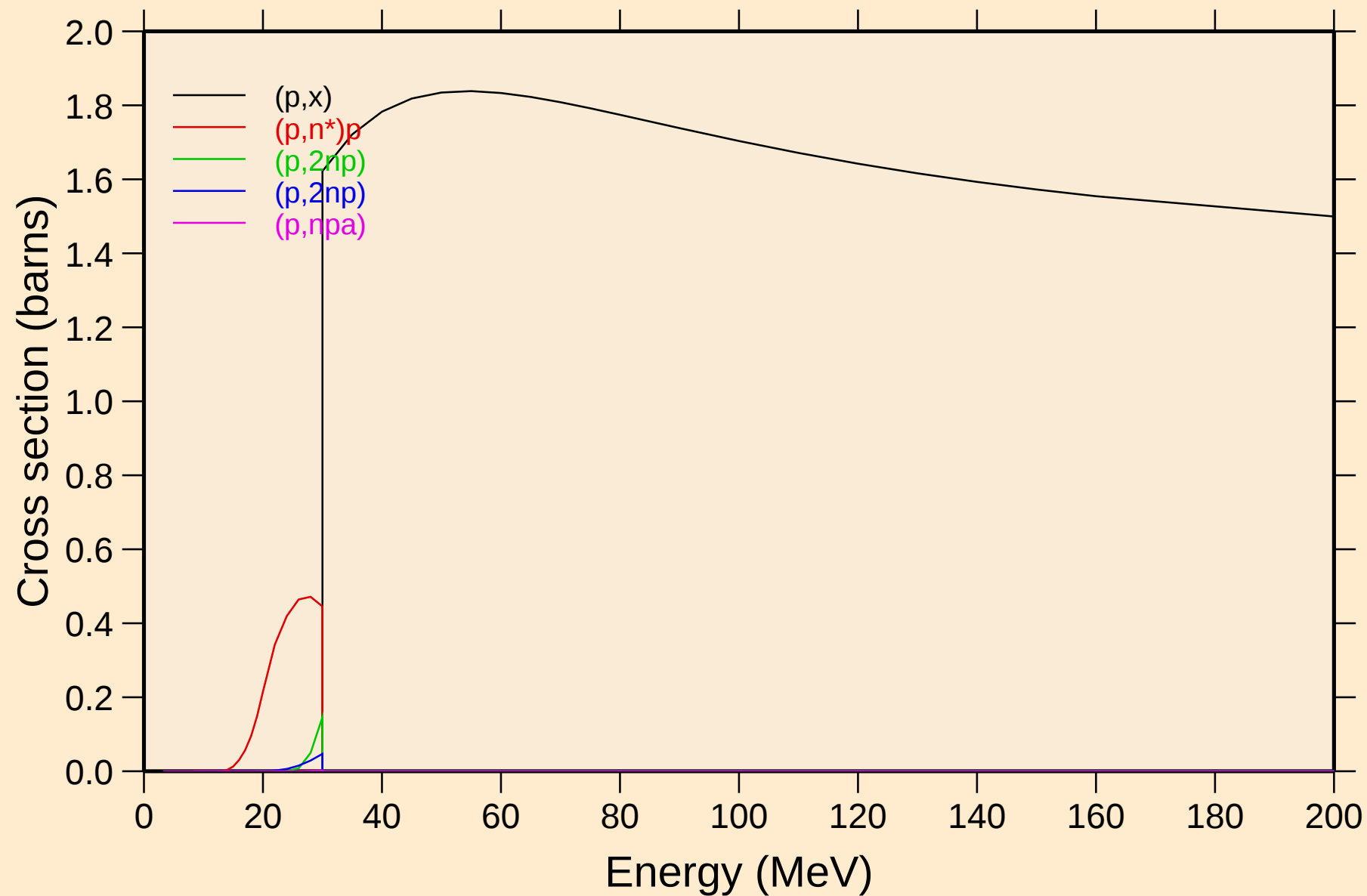
# IR178 PROTON ACER TENDL-2021 LIBRARY; T=0.K

Heating



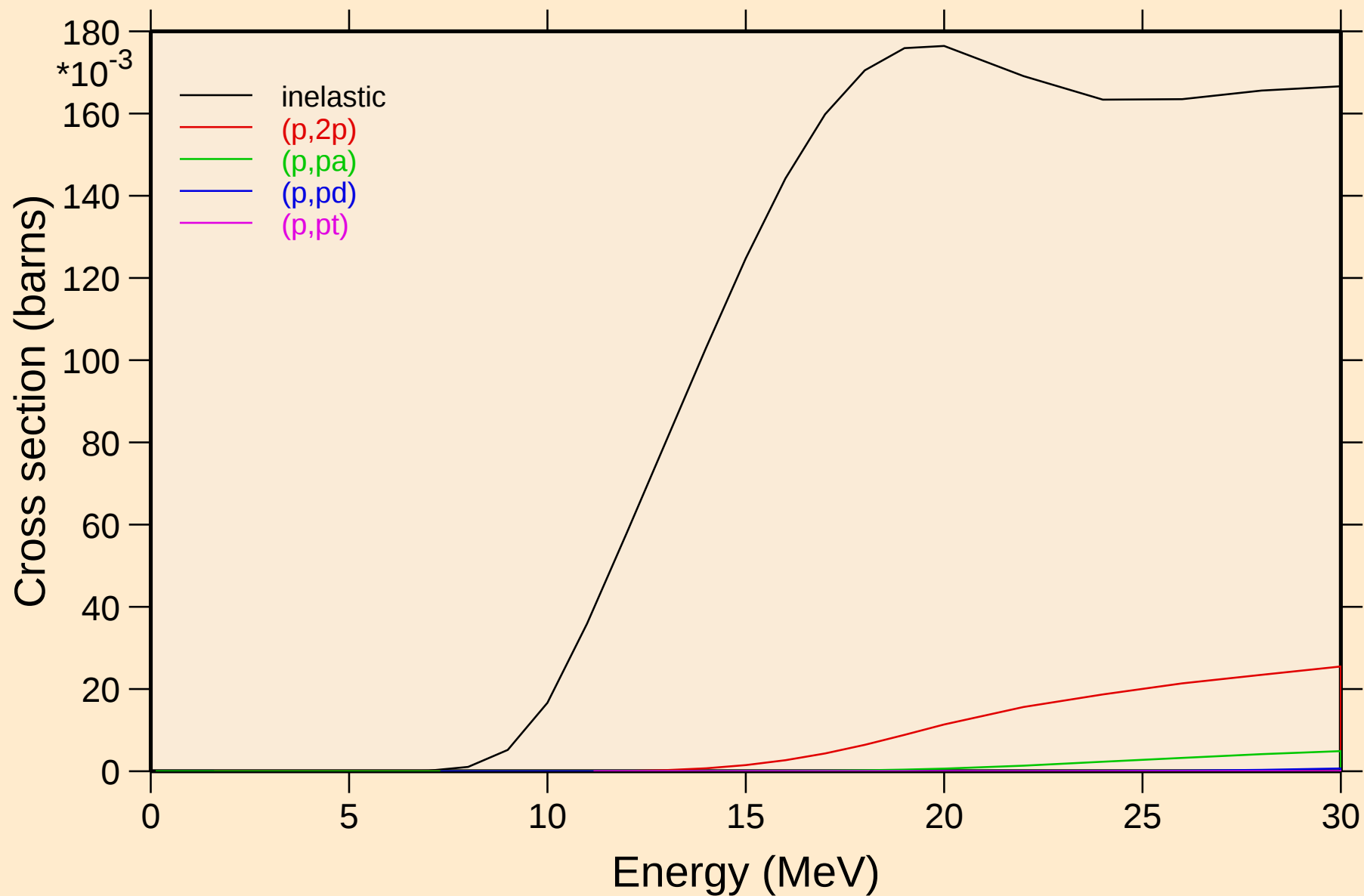
# IR178 PROTON ACER TENDL-2021 LIBRARY; T=0.K

Threshold reactions



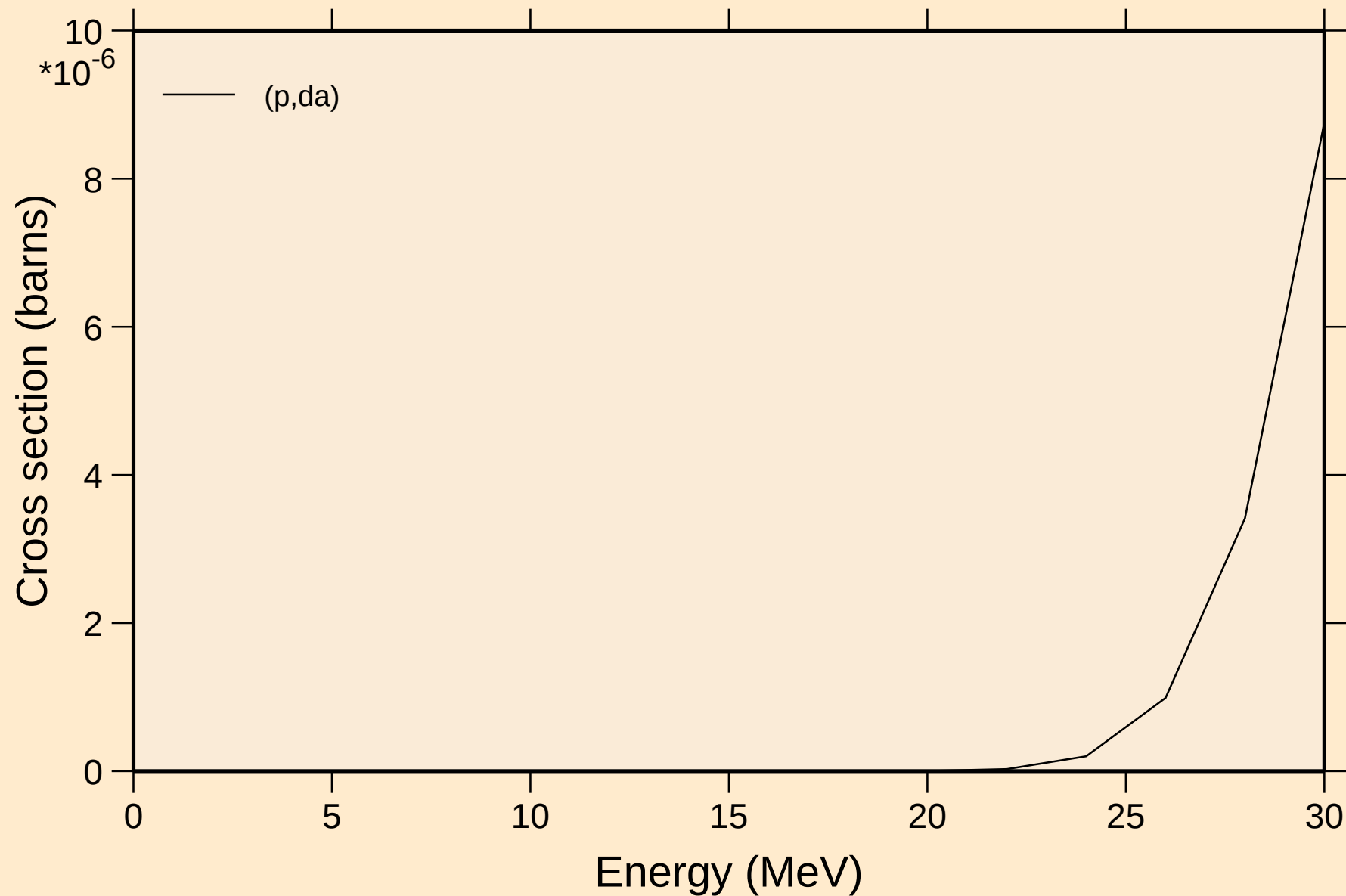
# IR178 PROTON ACER TENDL-2021 LIBRARY; T=0.K

## Threshold reactions

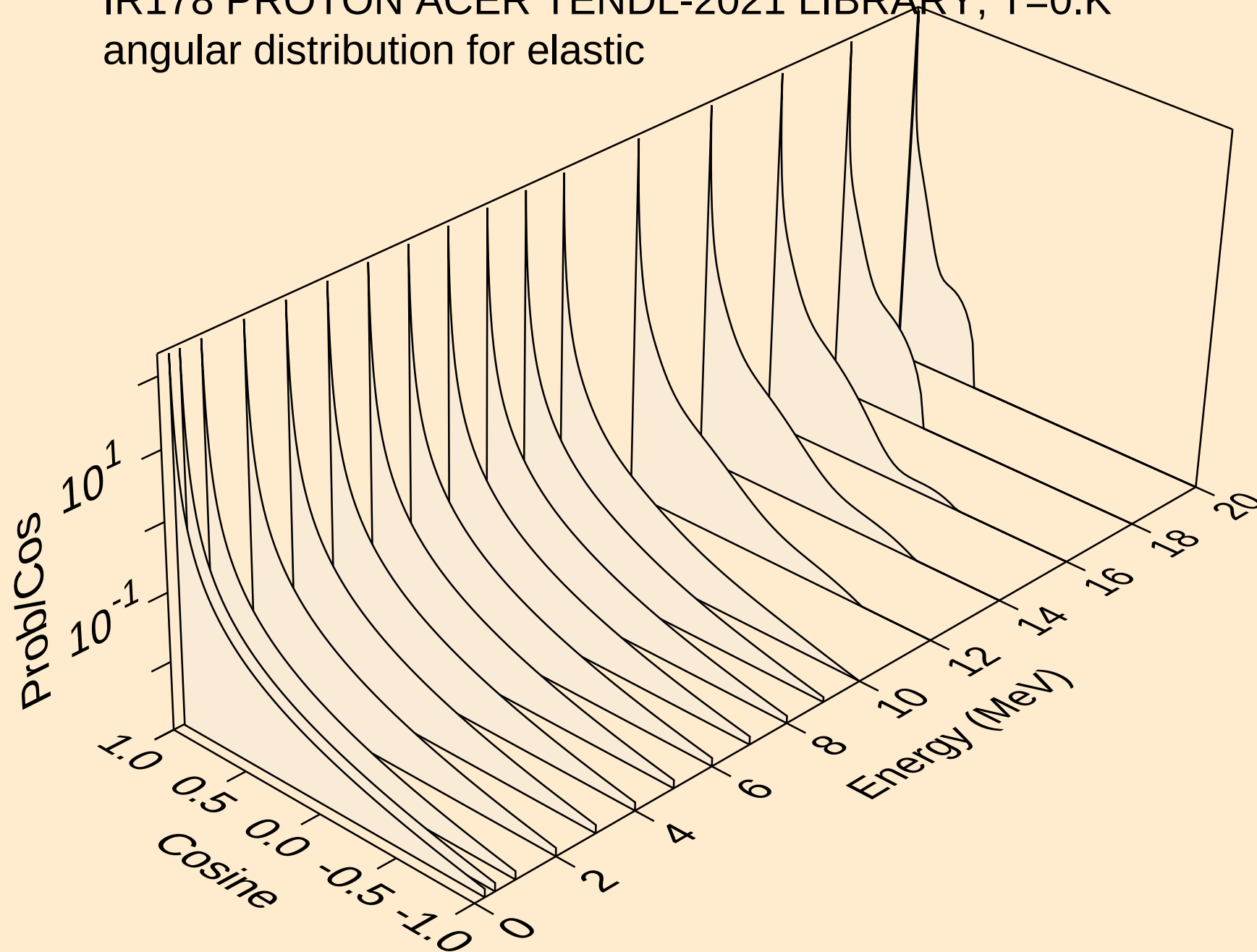


# IR178 PROTON ACER TENDL-2021 LIBRARY; T=0.K

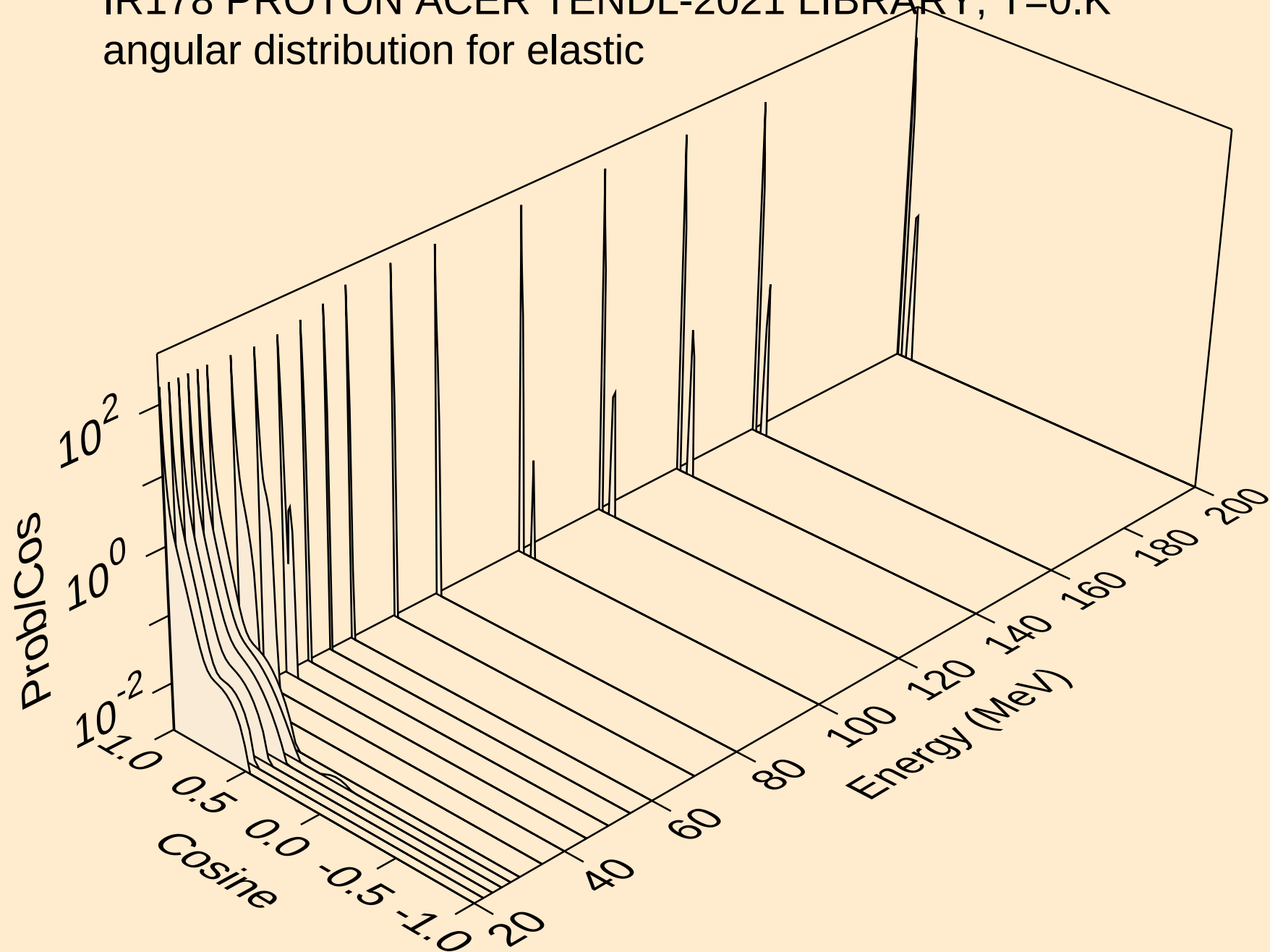
Threshold reactions



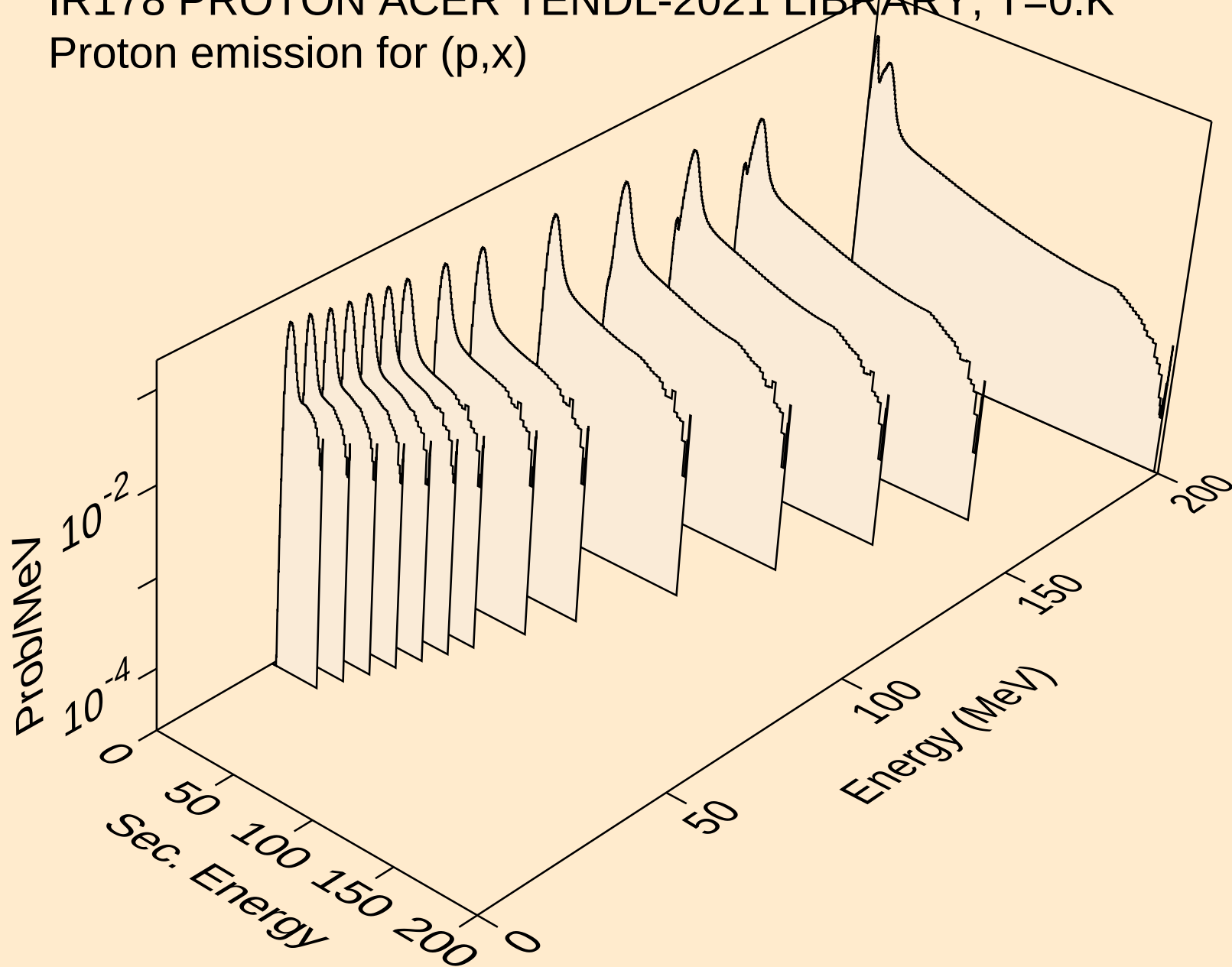
IR178 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
angular distribution for elastic



IR178 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
angular distribution for elastic

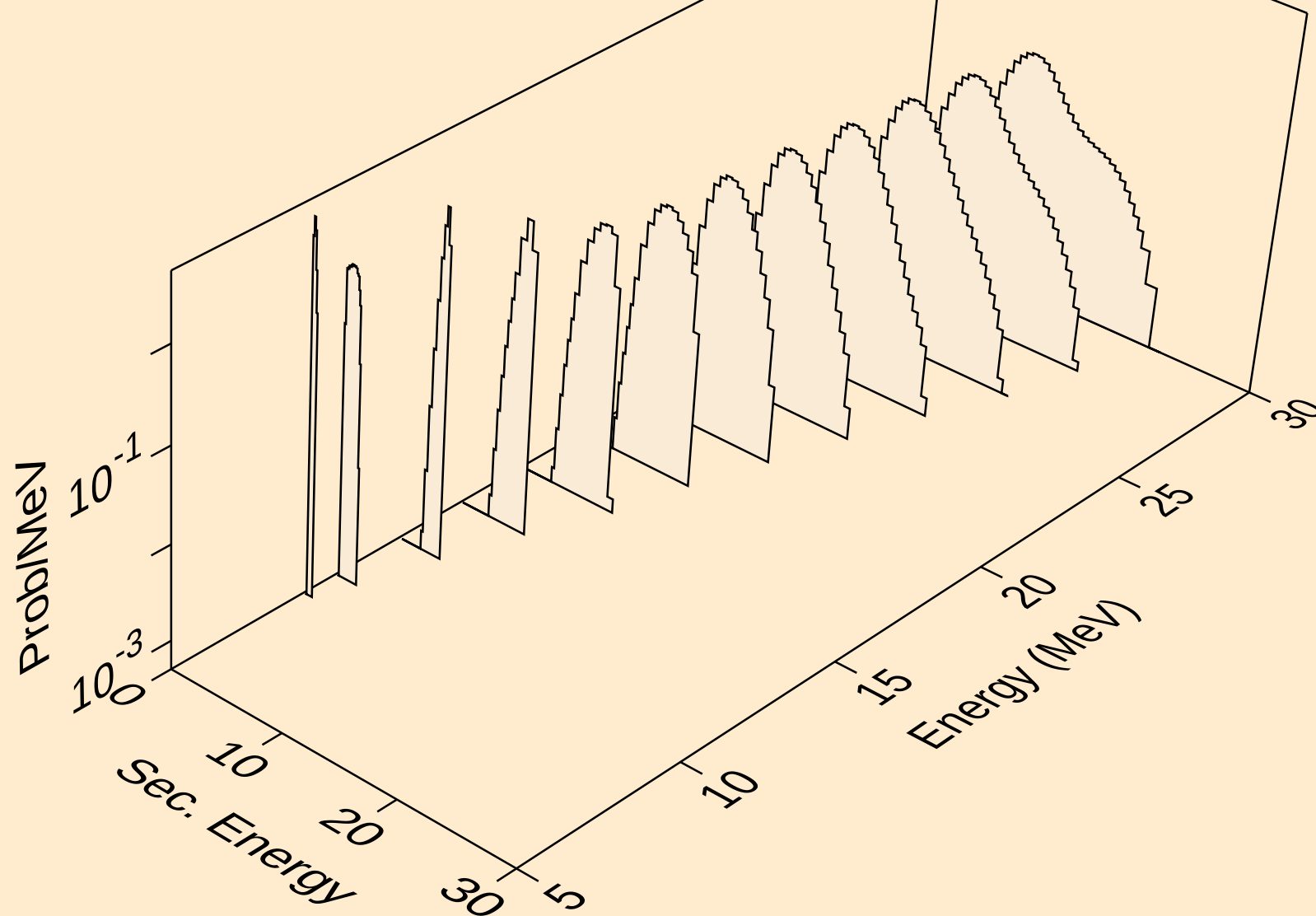


IR178 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
Proton emission for (p,x)

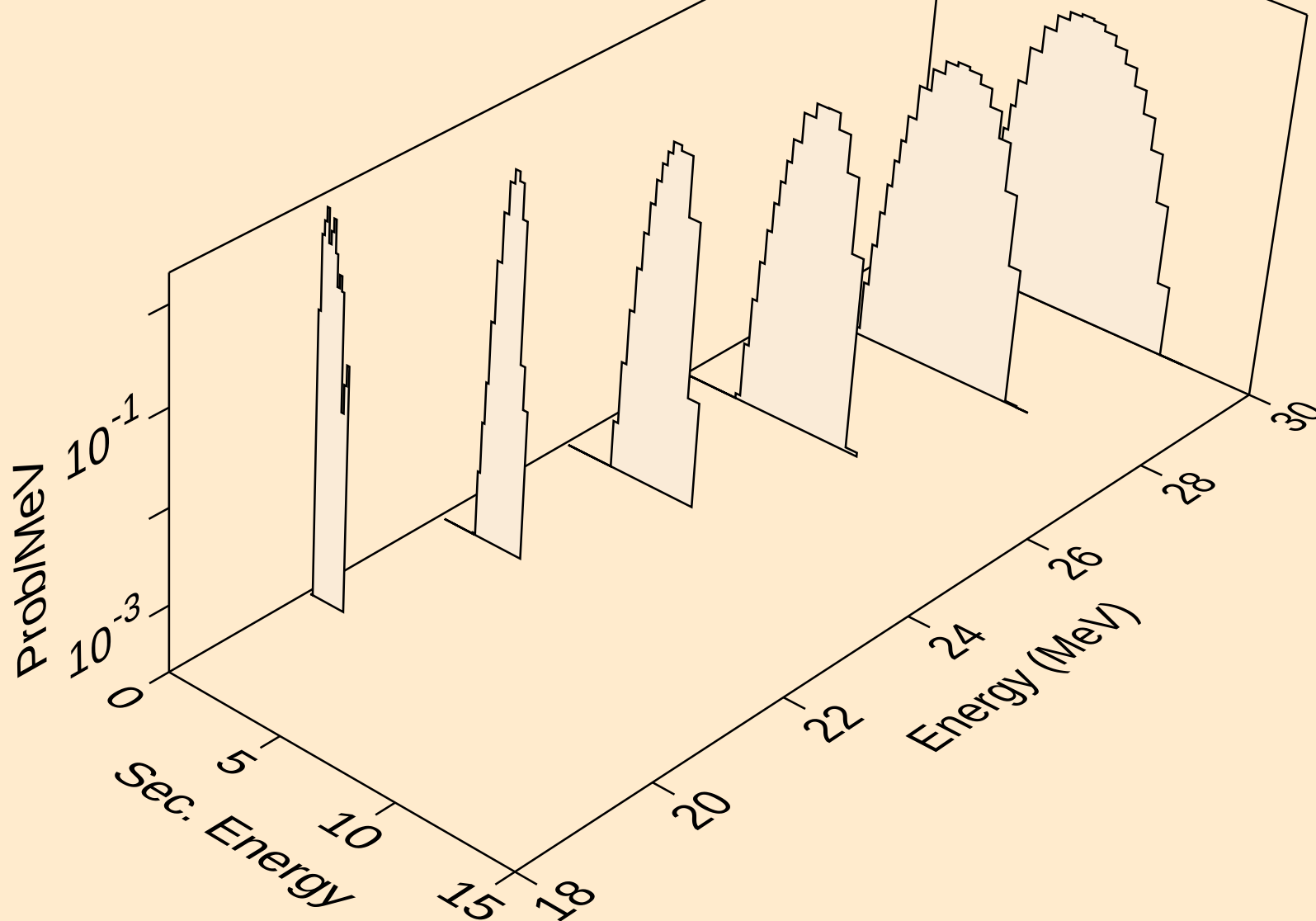


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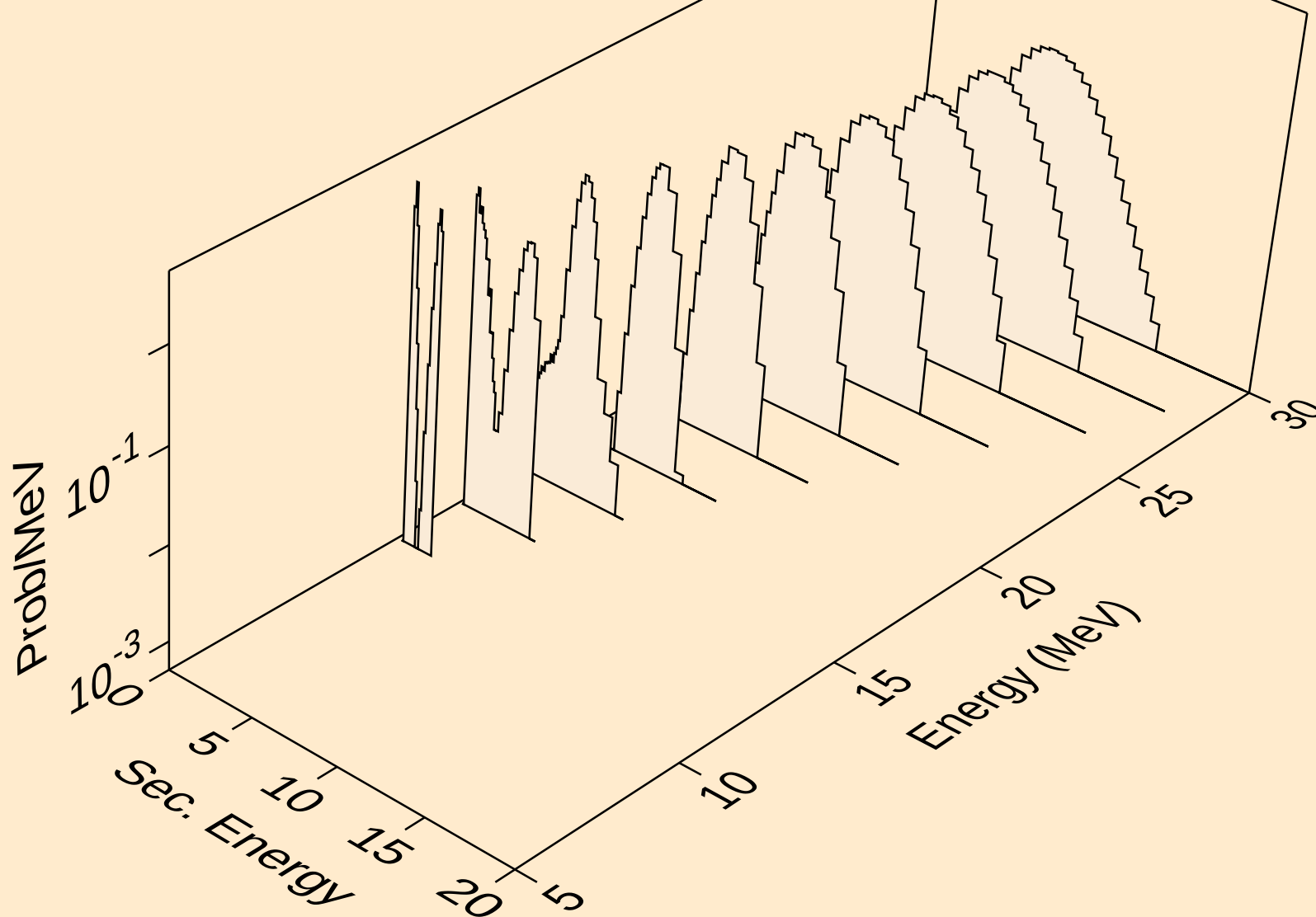
Proton emission for (p,n\*)p



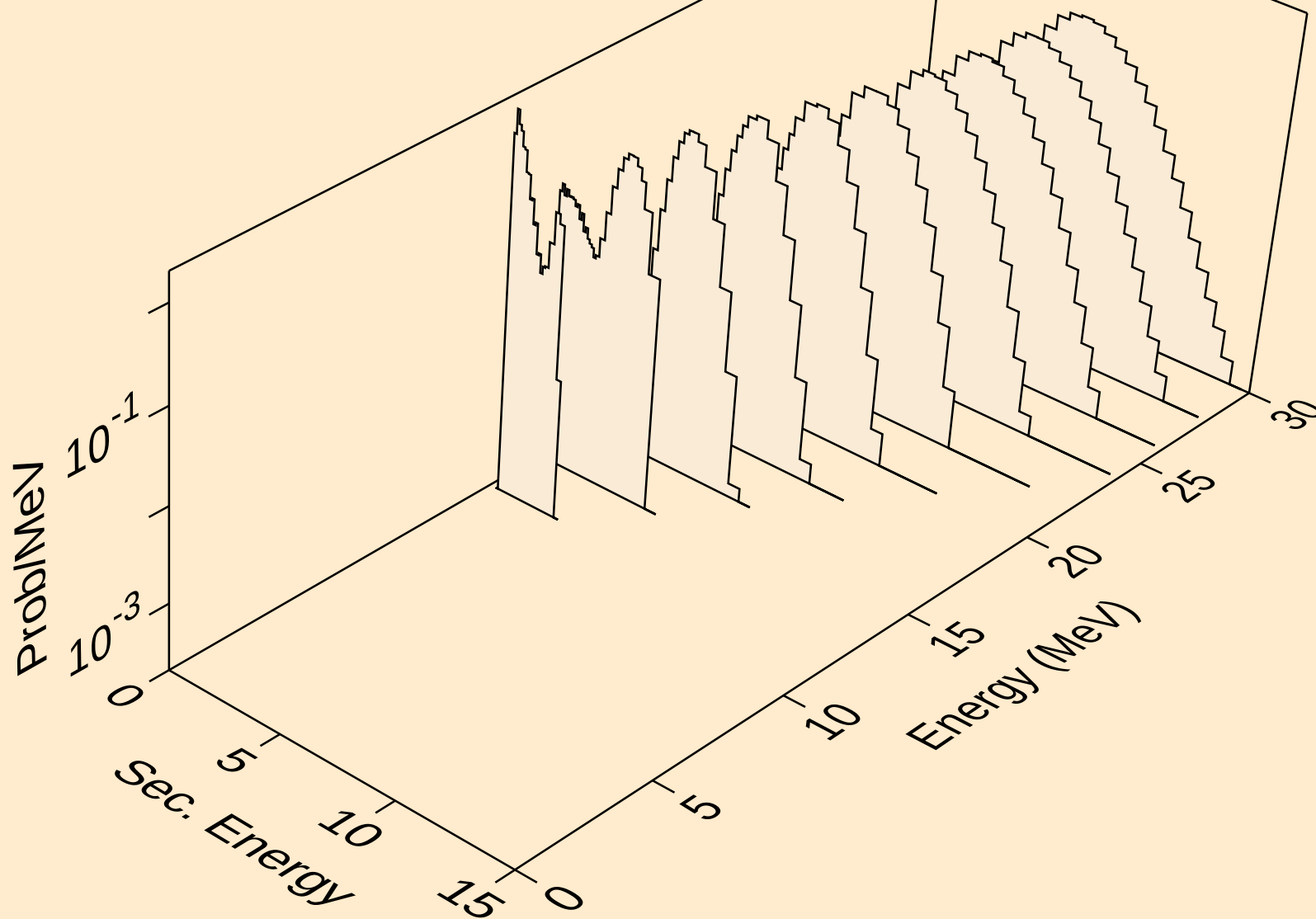
IR178 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
Proton emission for (p,2np)



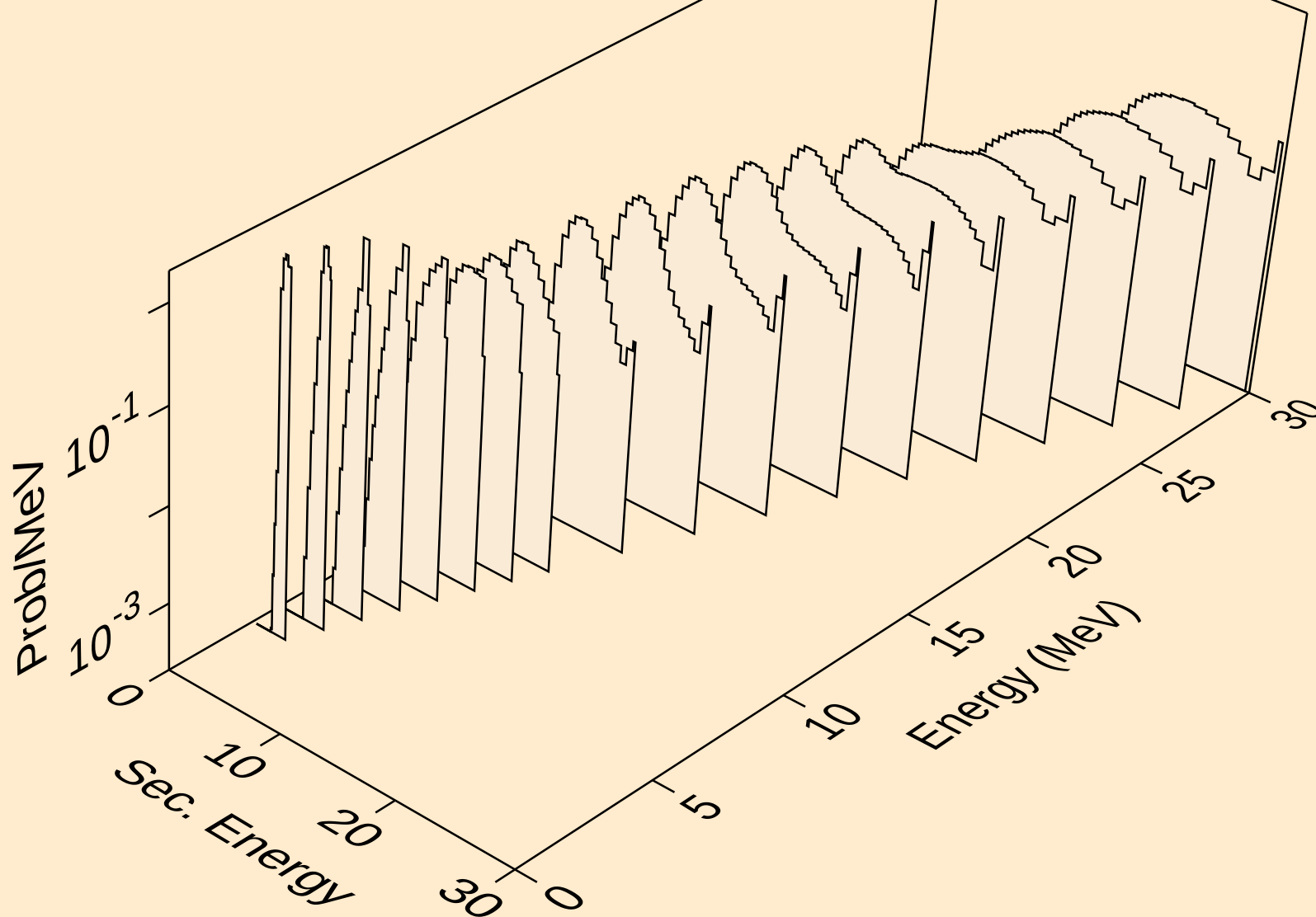
IR178 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
Proton emission for (p,2np)



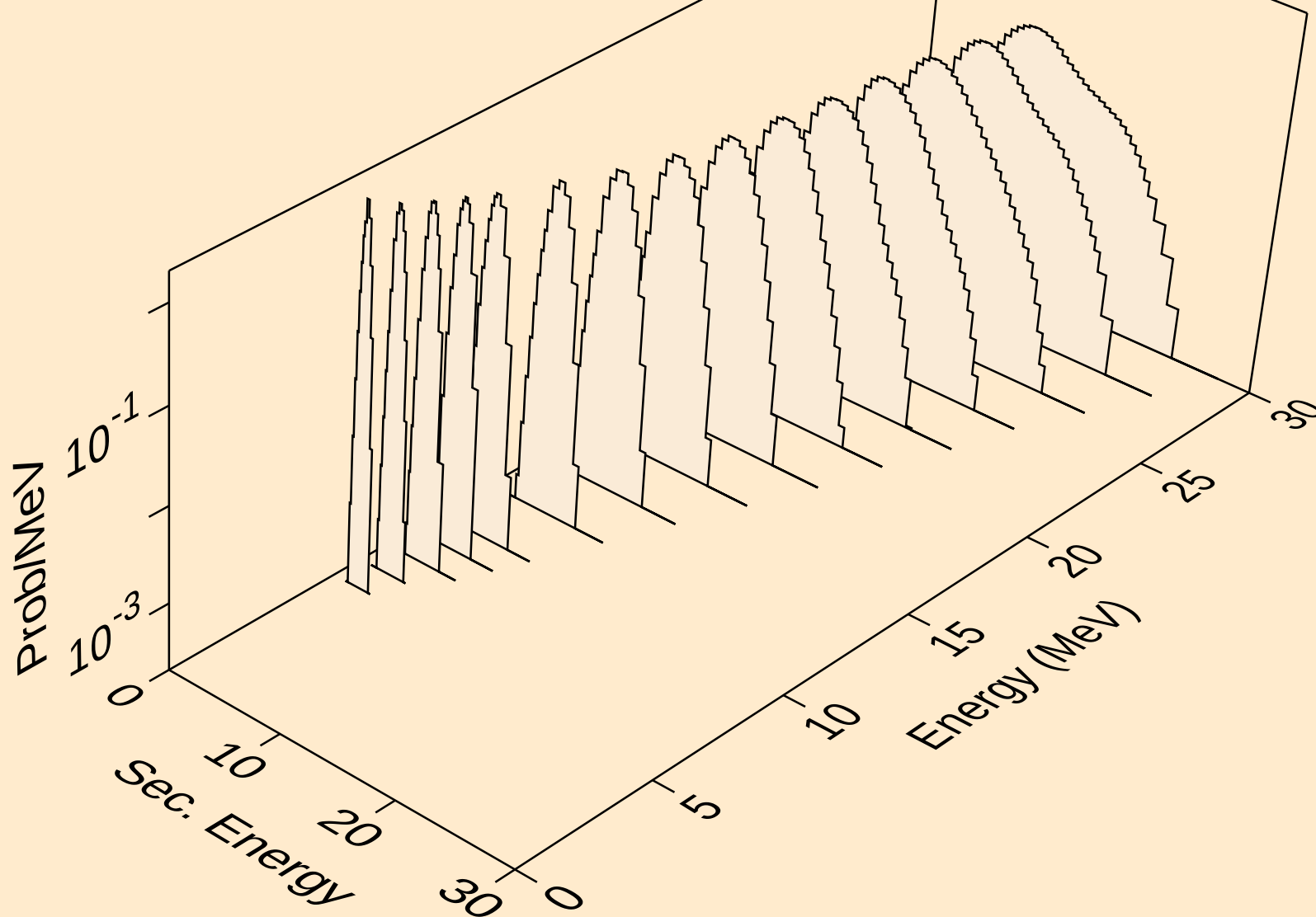
IR178 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
Proton emission for (p,npa)



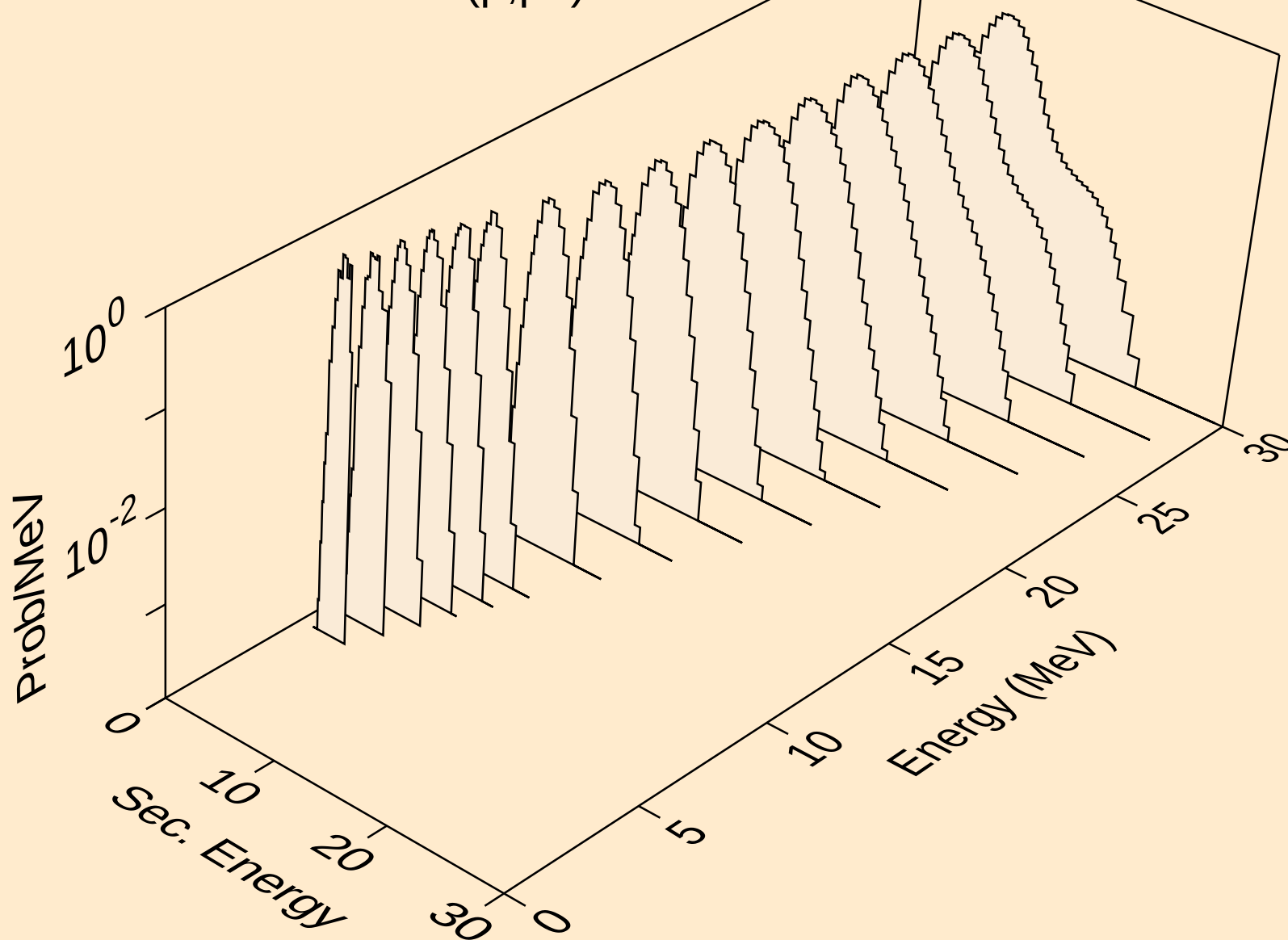
IR178 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
Proton emission for inelastic



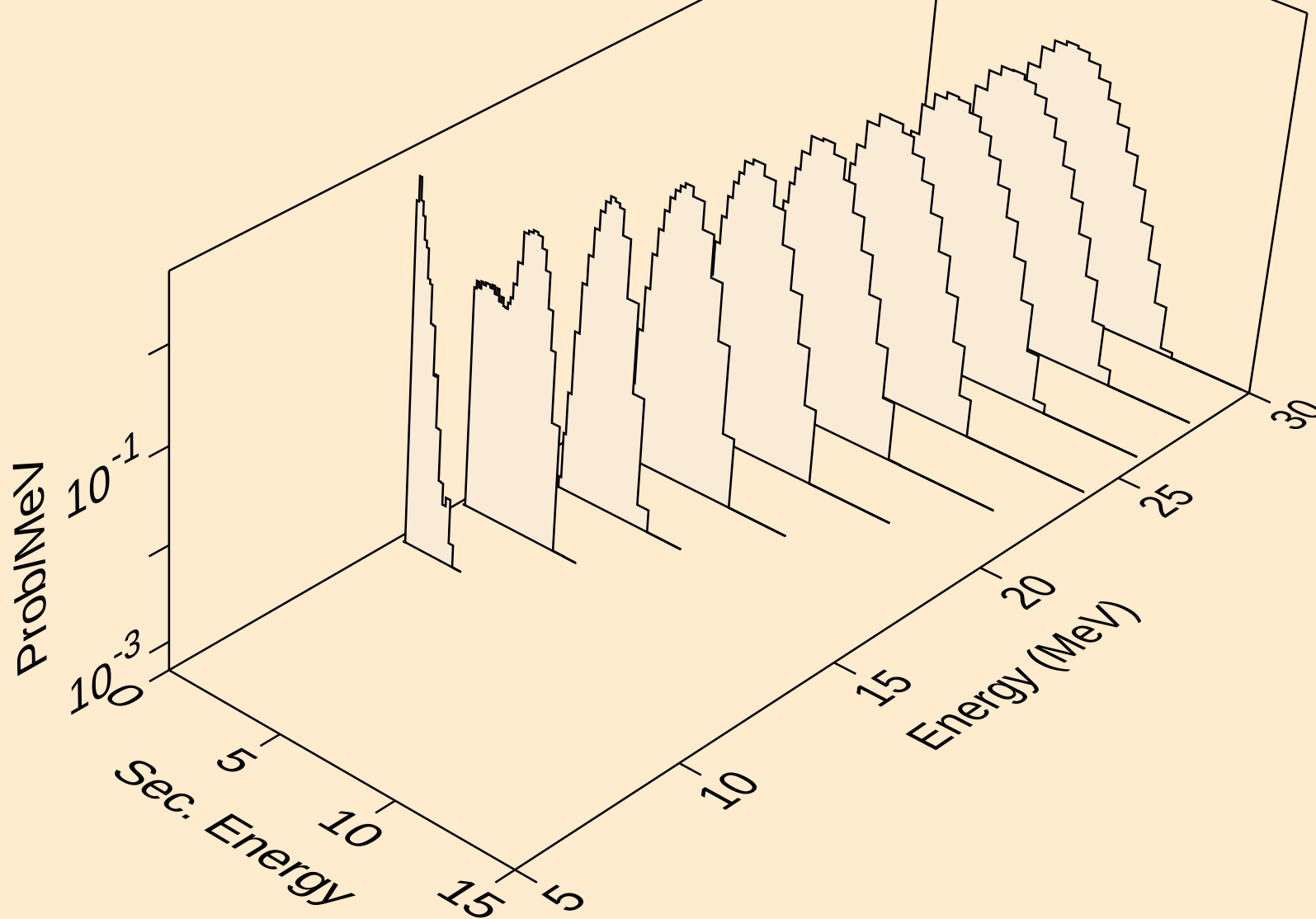
IR178 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
Proton emission for (p,2p)



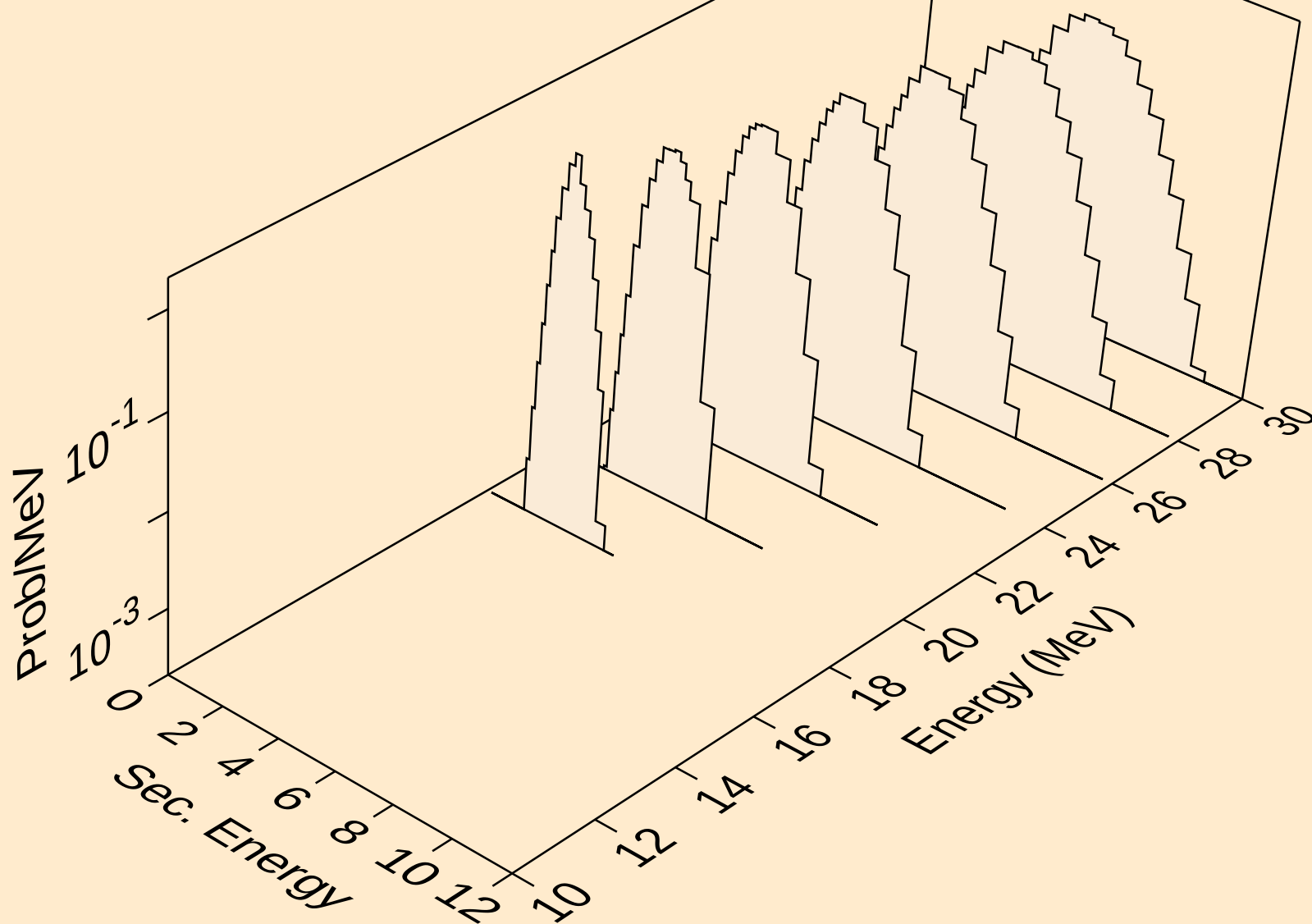
IR178 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
Proton emission for (p,pa)



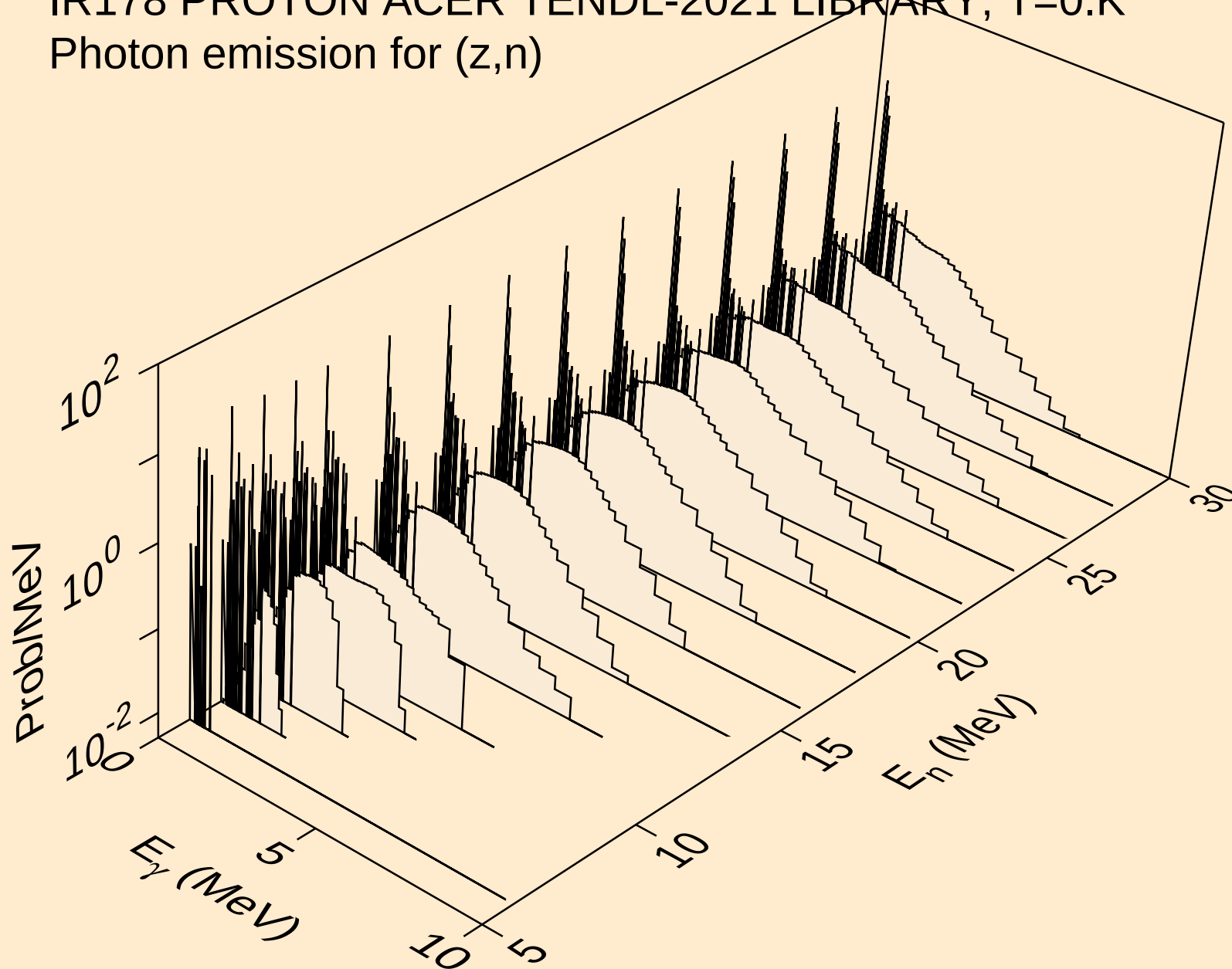
IR178 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
Proton emission for (p,pd)



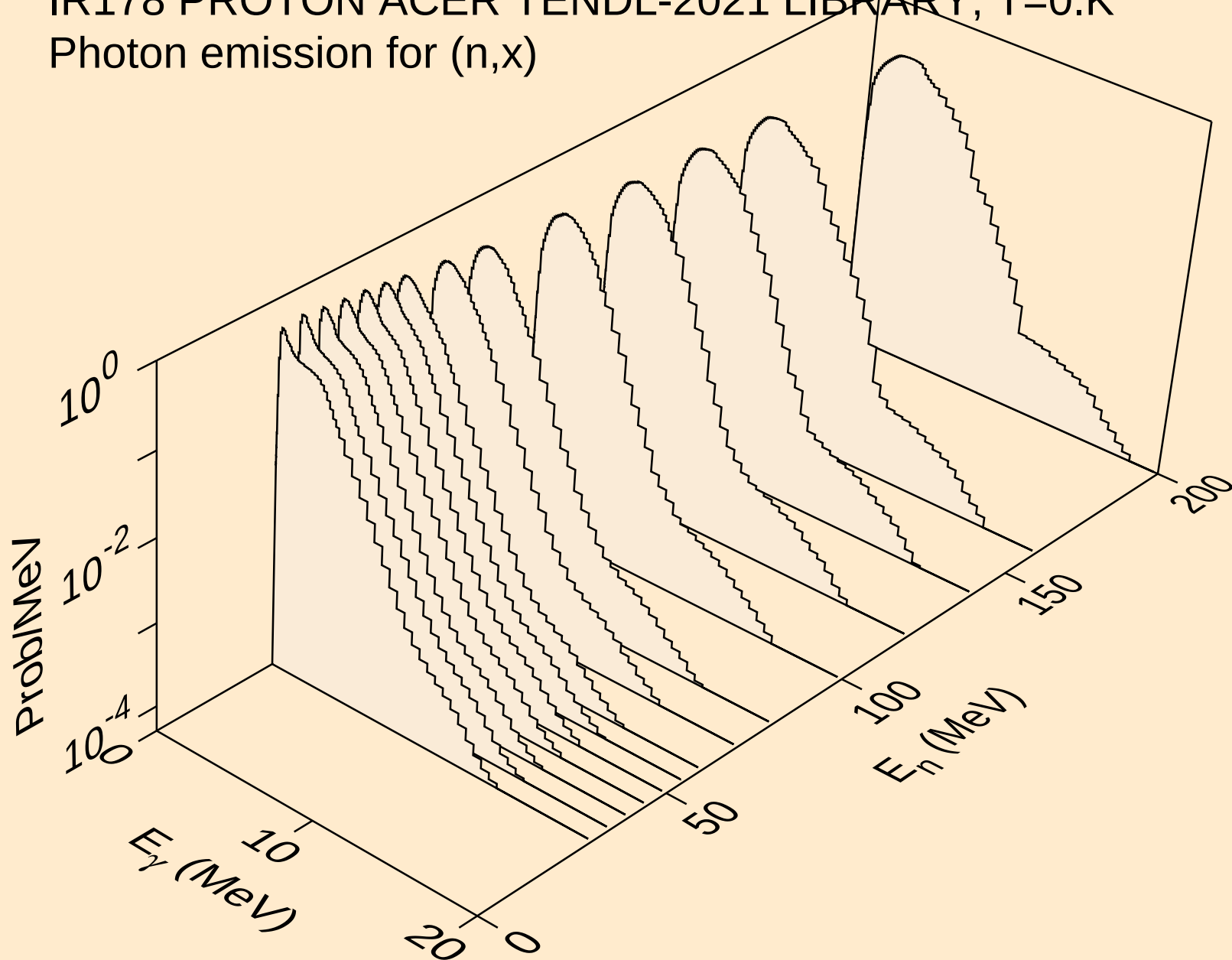
IR178 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
Proton emission for (p,pt)



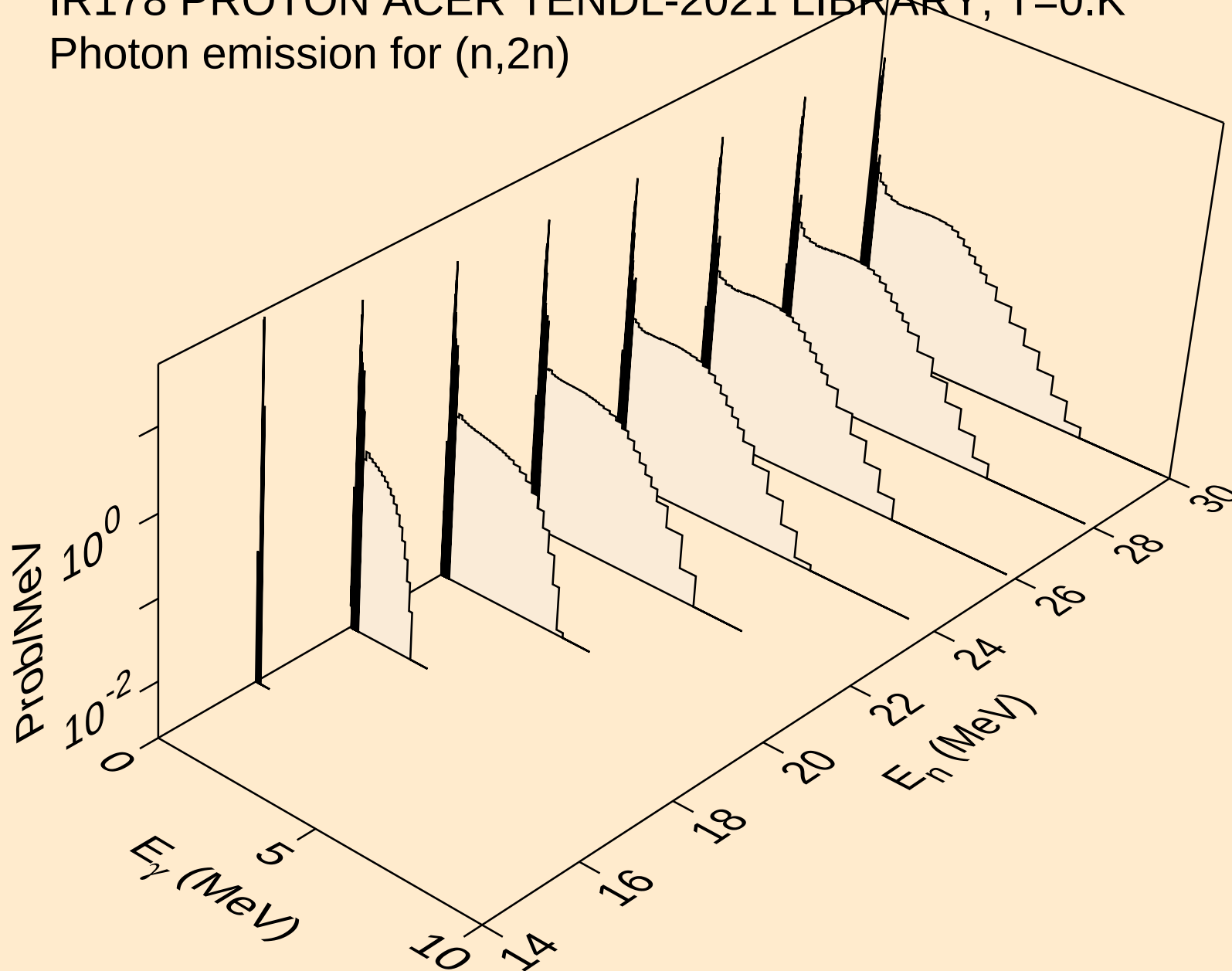
IR178 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
Photon emission for (z,n)



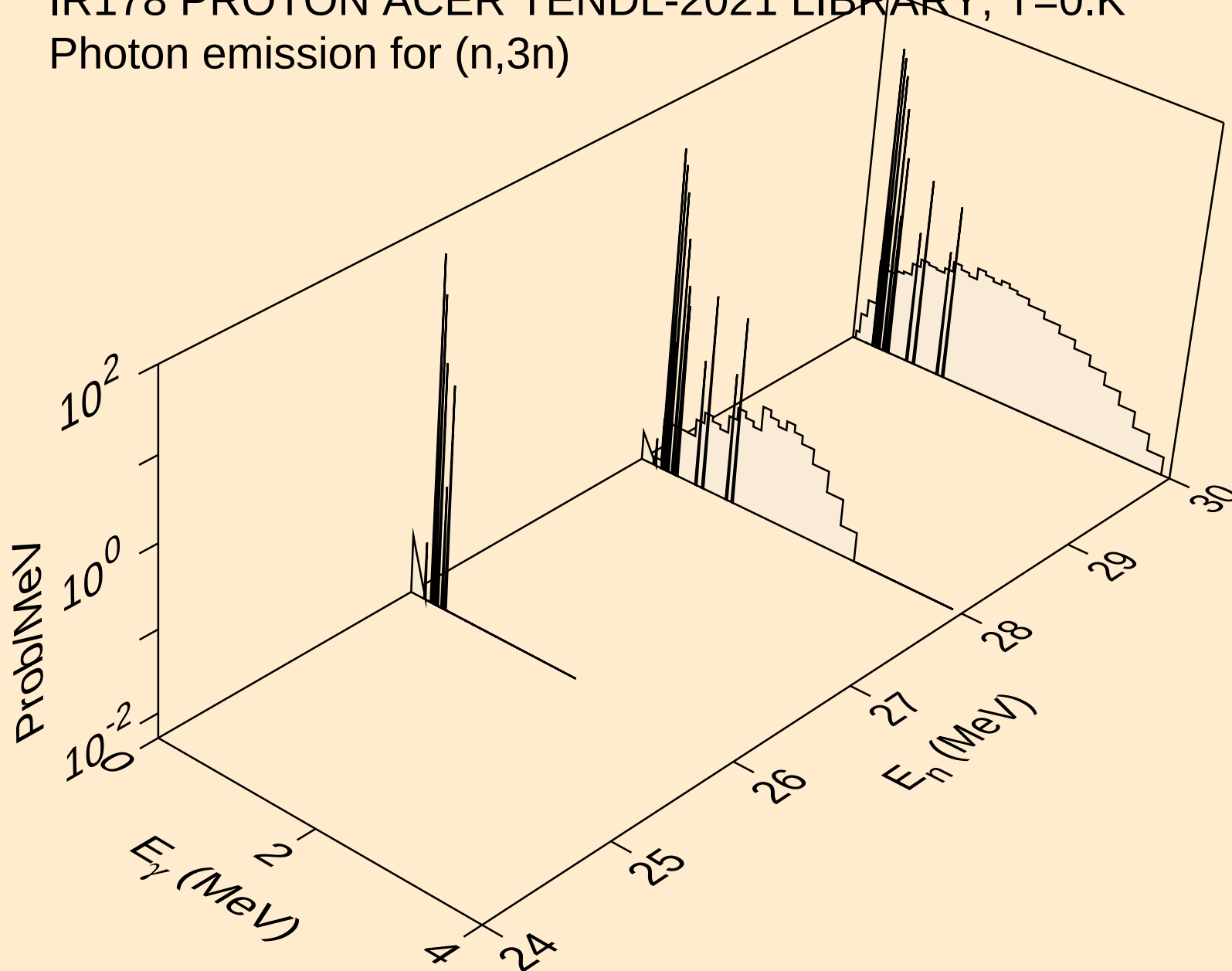
IR178 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
Photon emission for (n,x)



IR178 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
Photon emission for (n,2n)

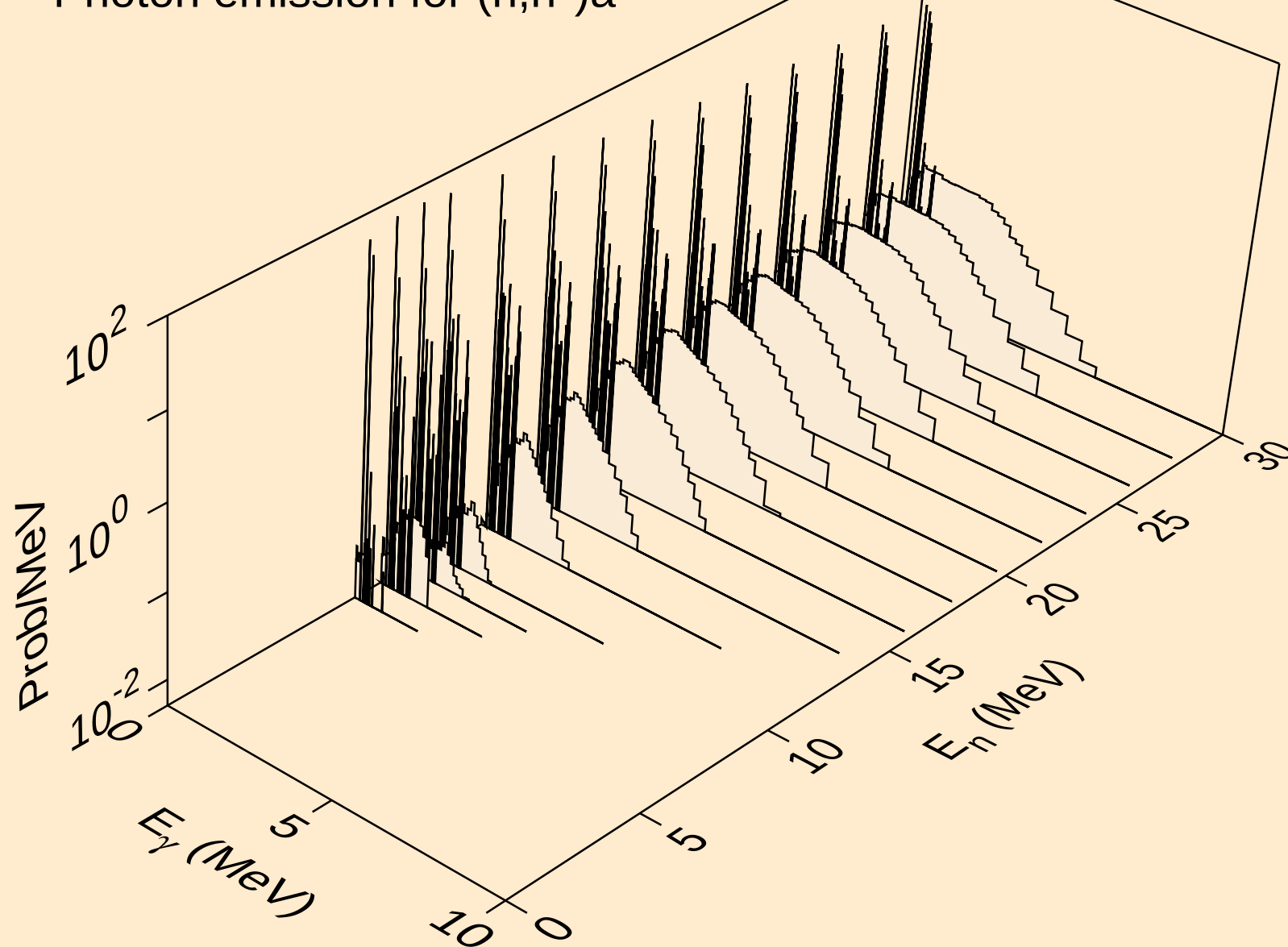


IR178 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
Photon emission for (n,3n)



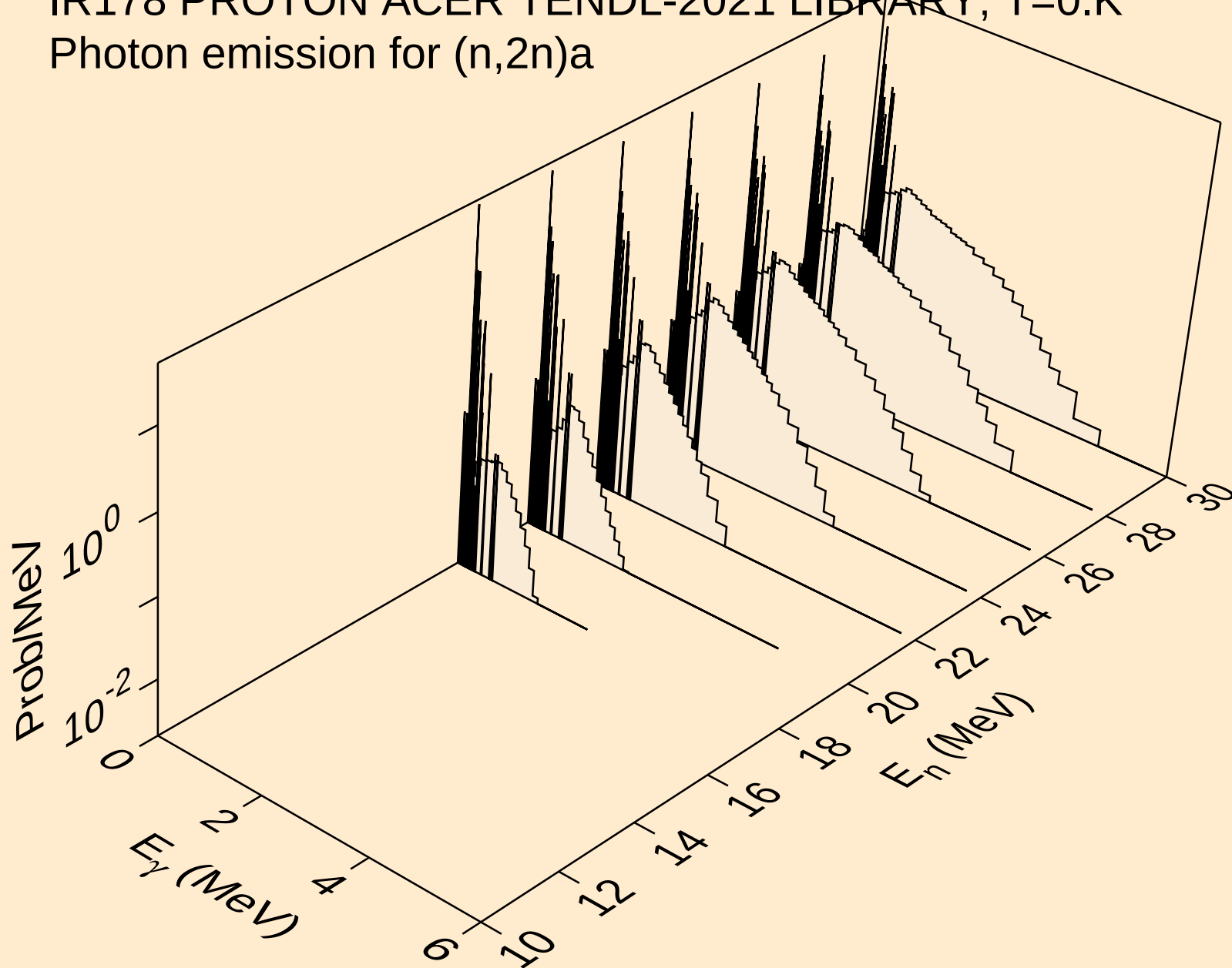
IR178 PROTON ACER TENDL-2021 LIBRARY; T=0.K

Photon emission for (n,n\*)a



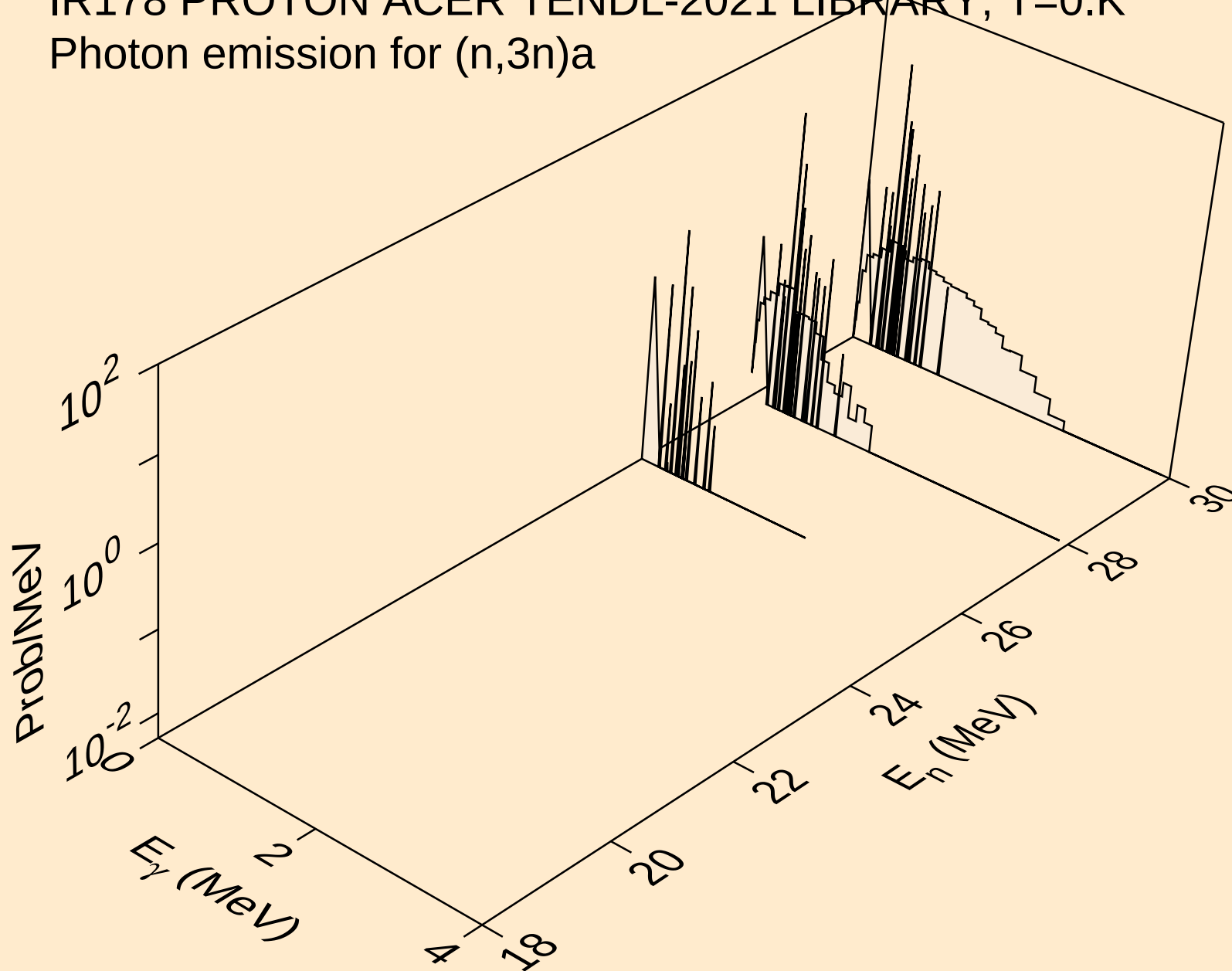
IR178 PROTON ACER TENDL-2021 LIBRARY; T=0.K

Photon emission for (n,2n) $\alpha$



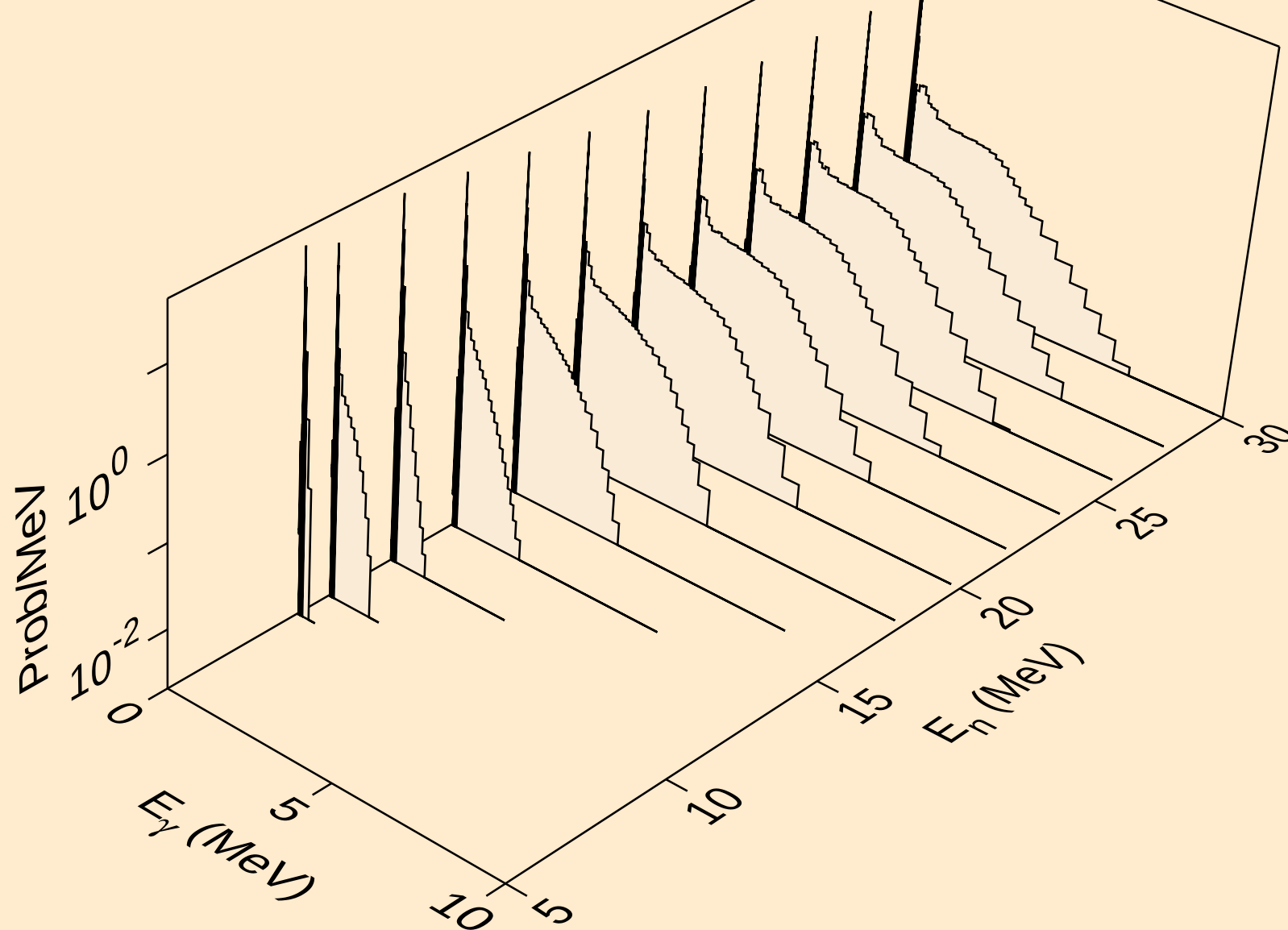
IR178 PROTON ACER TENDL-2021 LIBRARY; T=0.K

Photon emission for (n,3n) $\alpha$

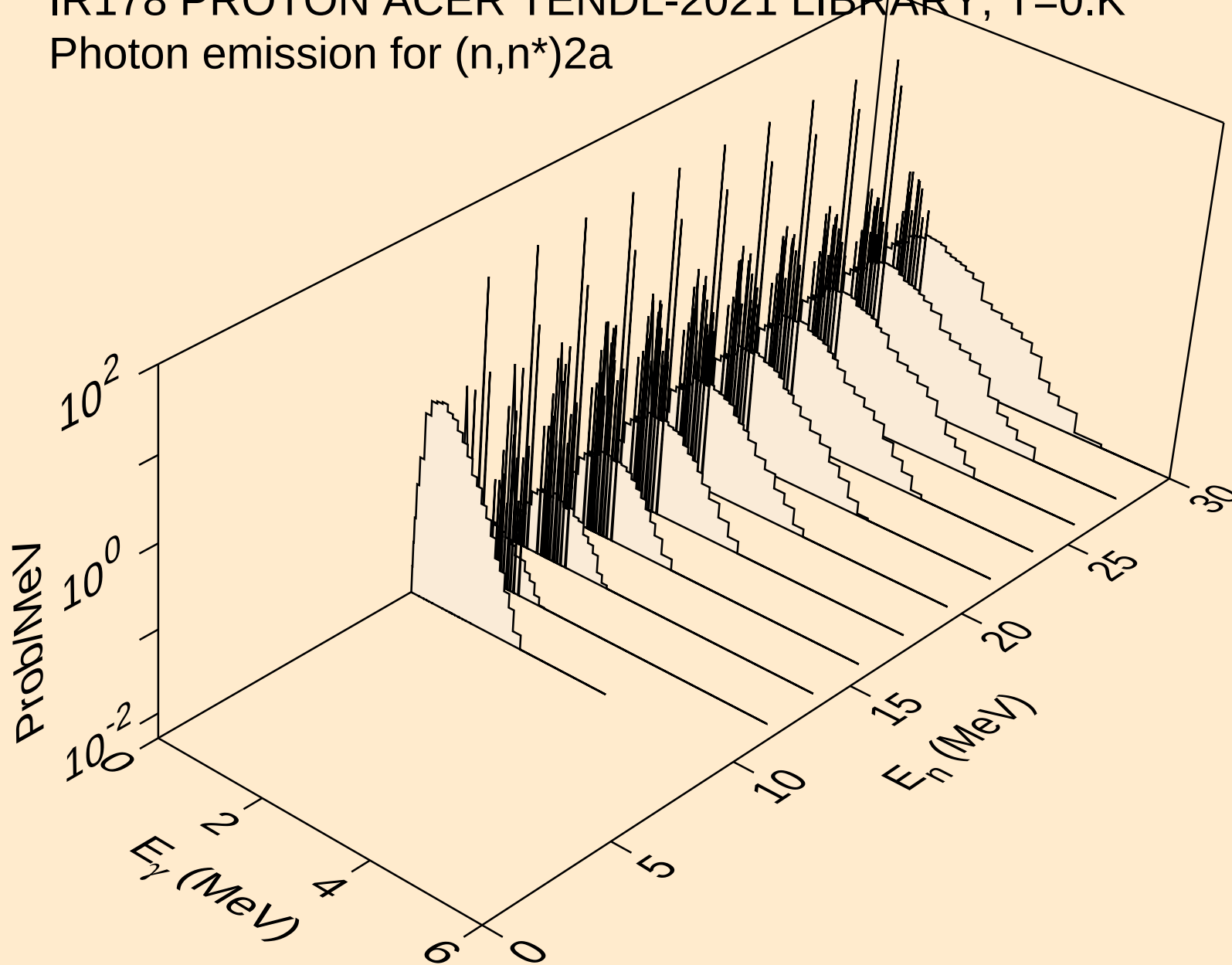


IR178 PROTON ACER TENDL-2021 LIBRARY; T=0.K

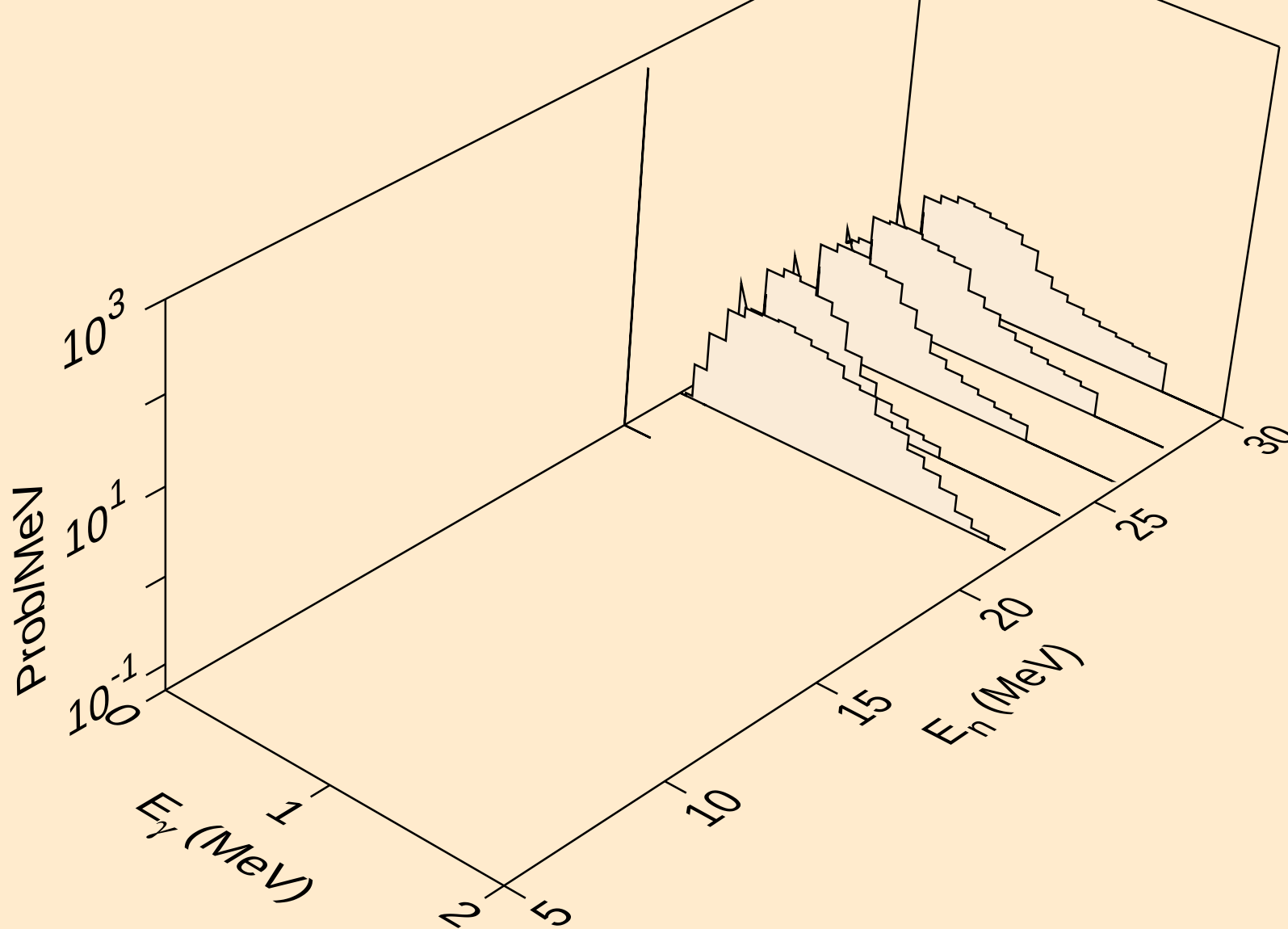
Photon emission for (n,n\*)p



IR178 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
Photon emission for (n,n\*)2a

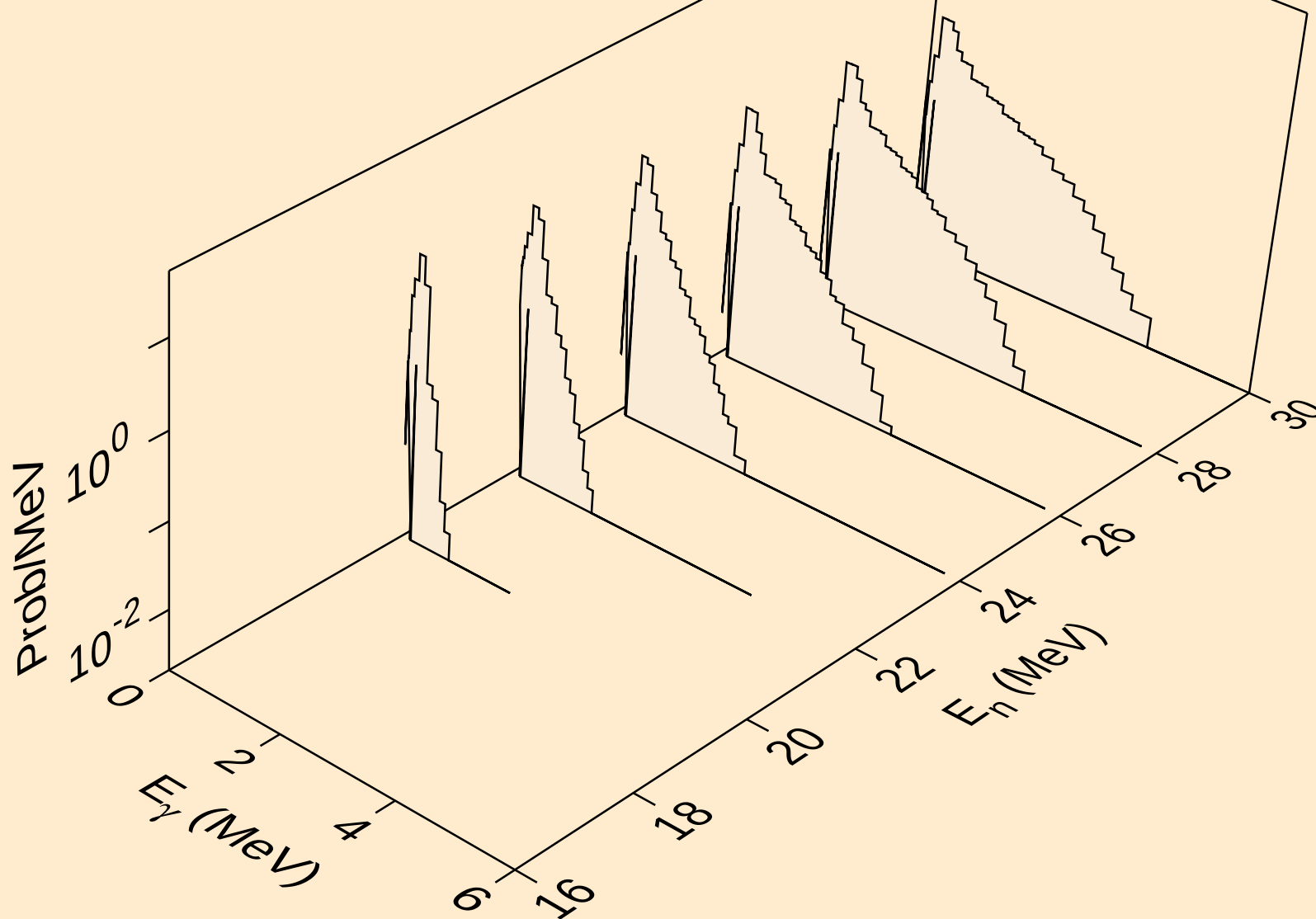


IR178 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
Photon emission for (n,2n)2a



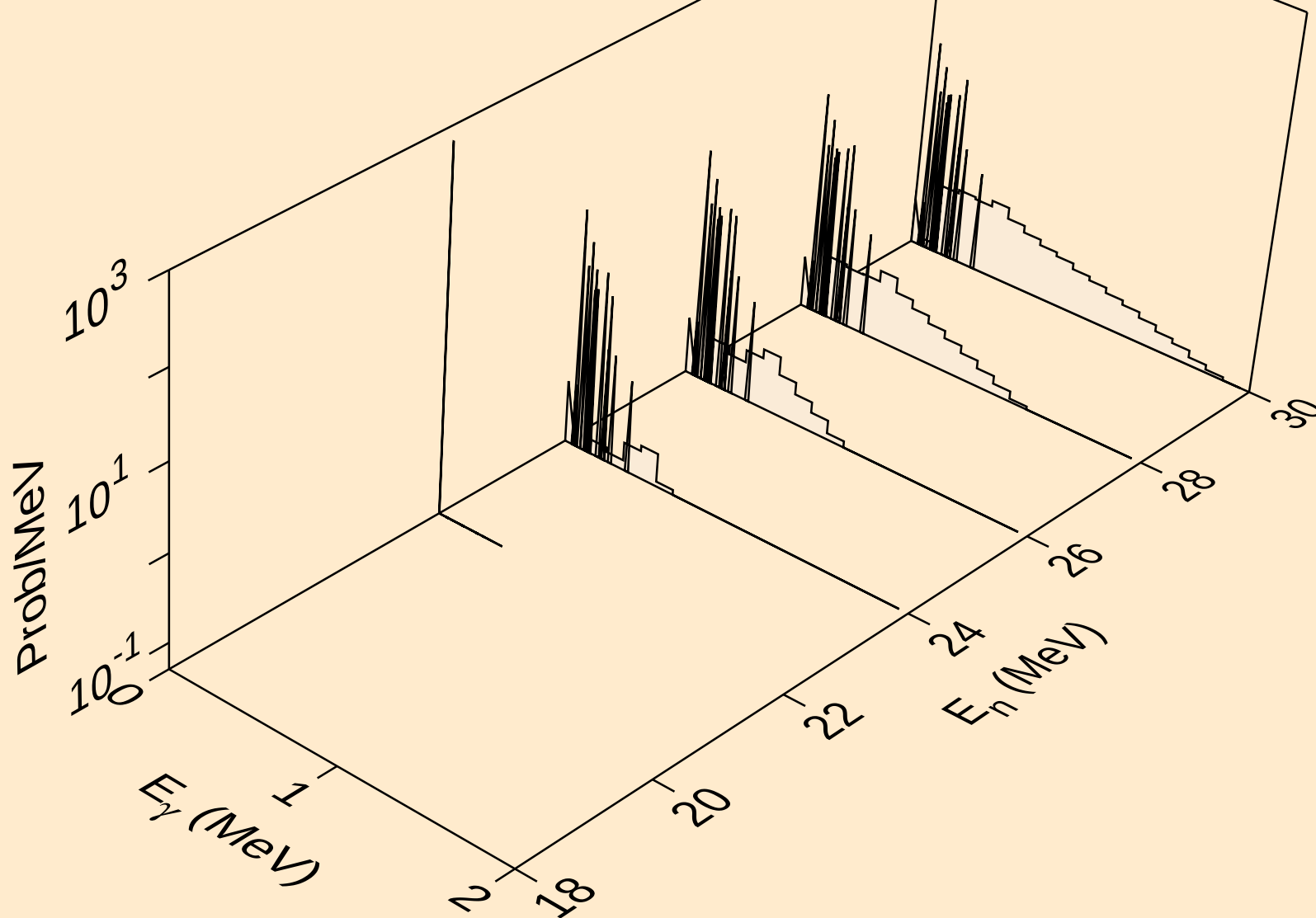
IR178 PROTON ACER TENDL-2021 LIBRARY; T=0.K

Photon emission for (n,n\*)d



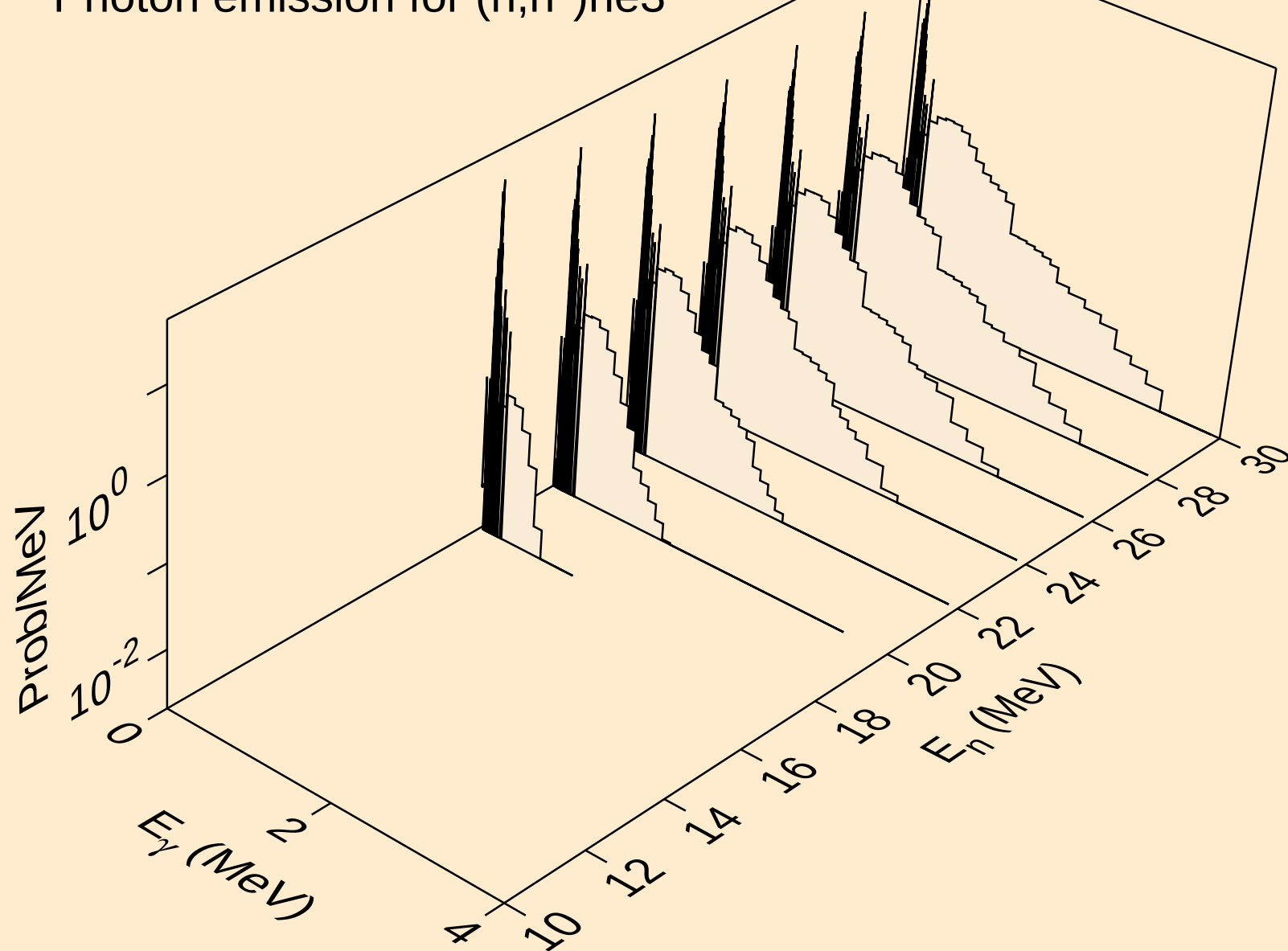
IR178 PROTON ACER TENDL-2021 LIBRARY; T=0.K

Photon emission for (n,n\*)t

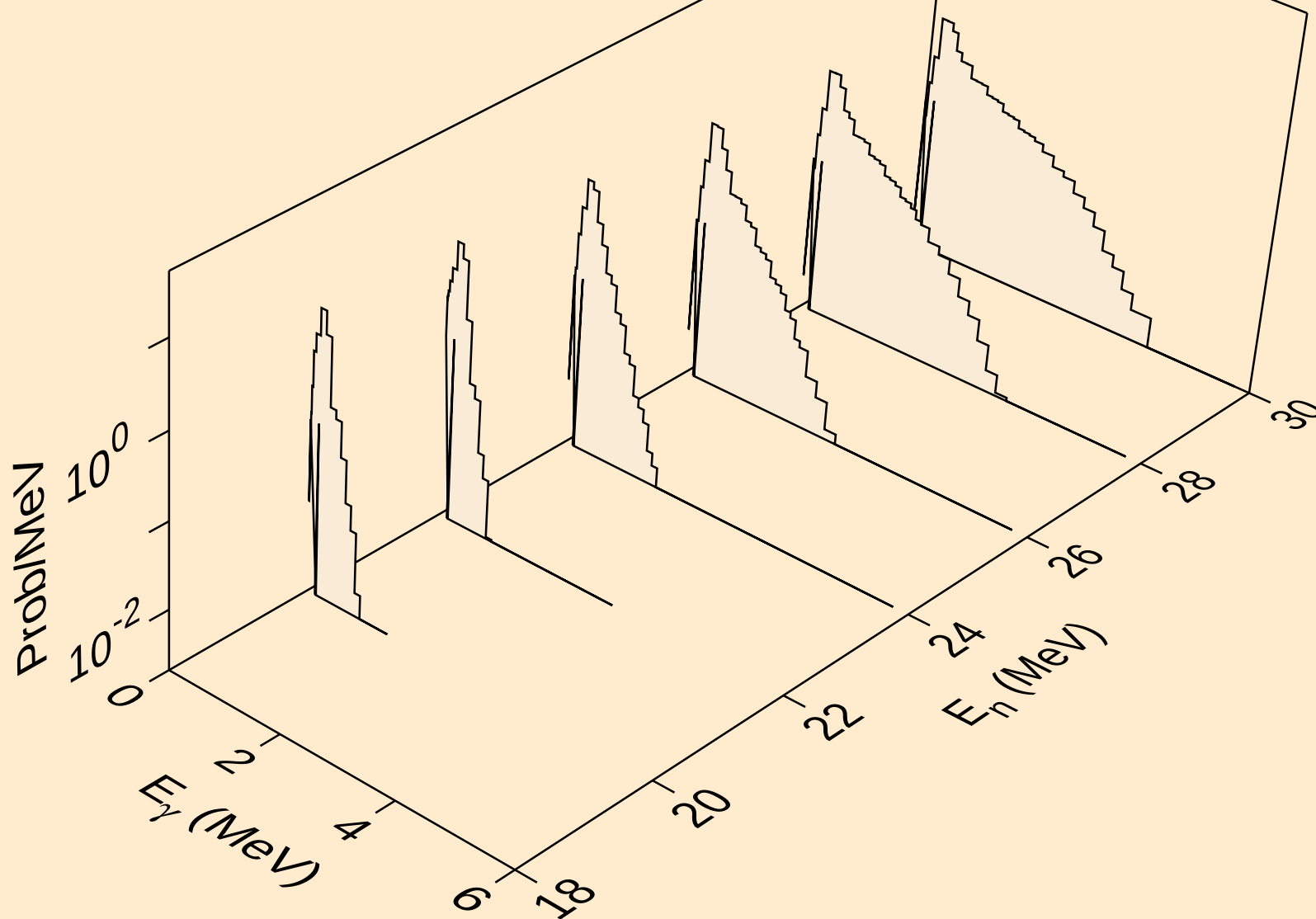


IR178 PROTON ACER TENDL-2021 LIBRARY; T=0.K

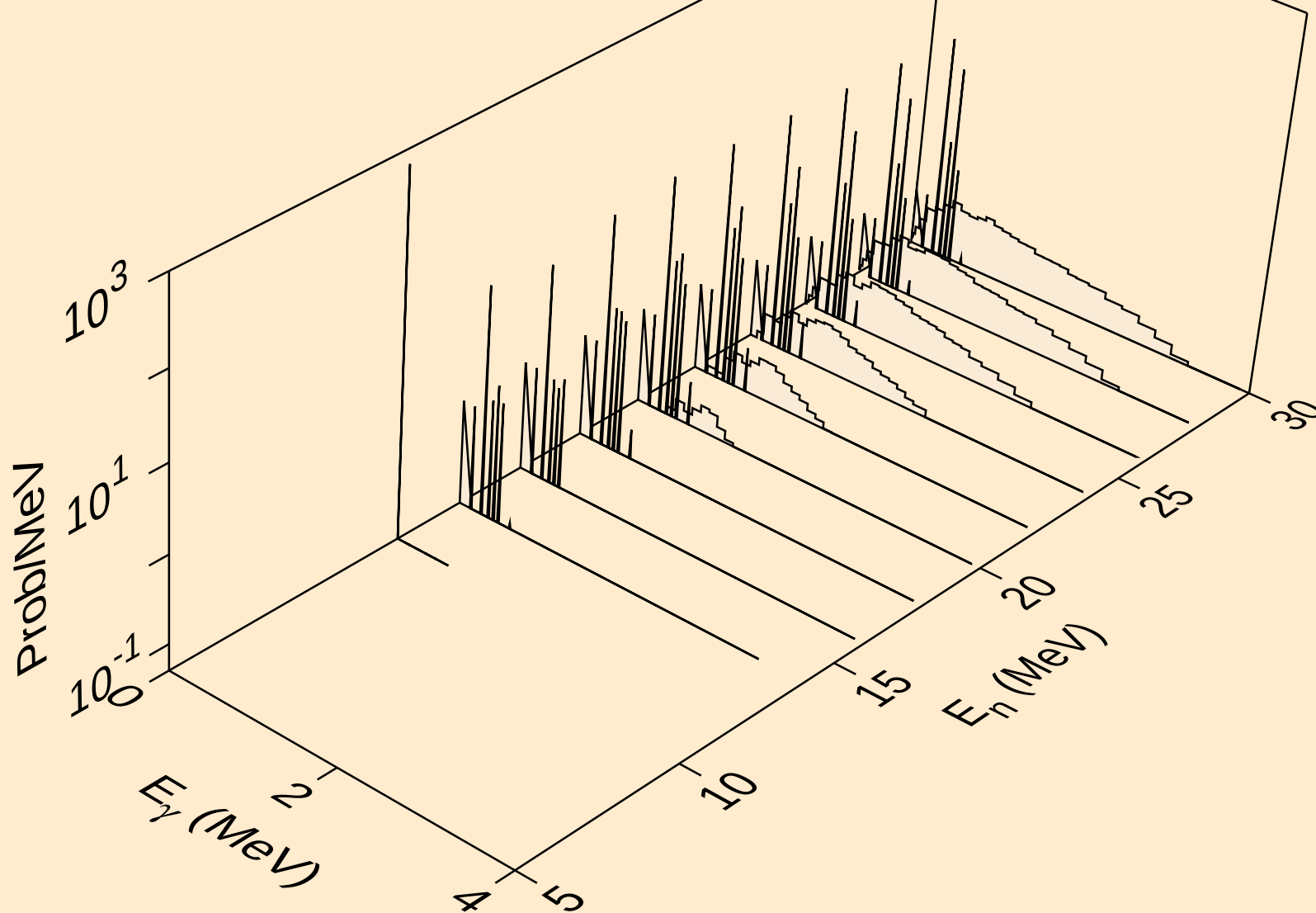
Photon emission for (n,n\*)he3



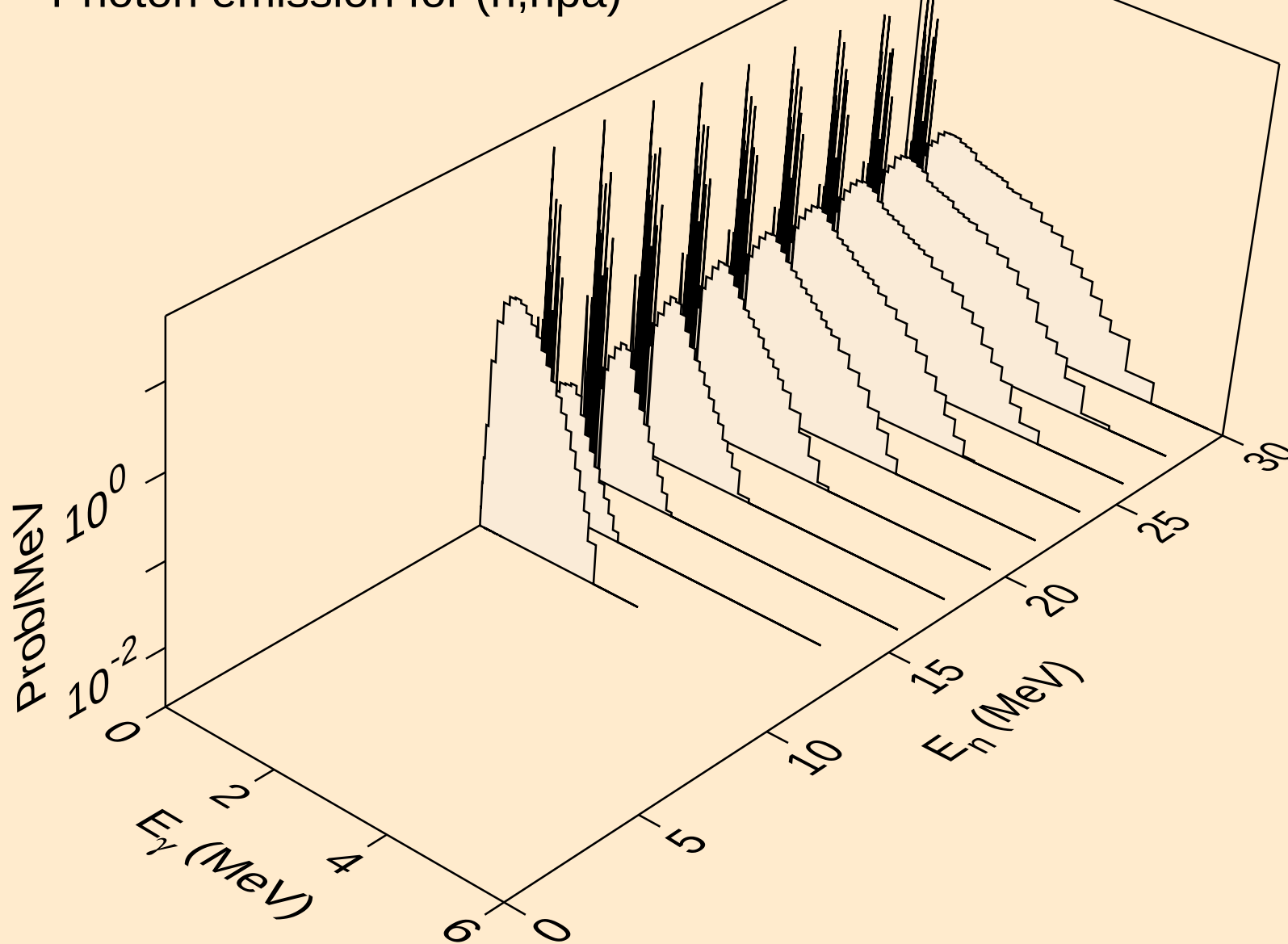
IR178 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
Photon emission for (n,2np)



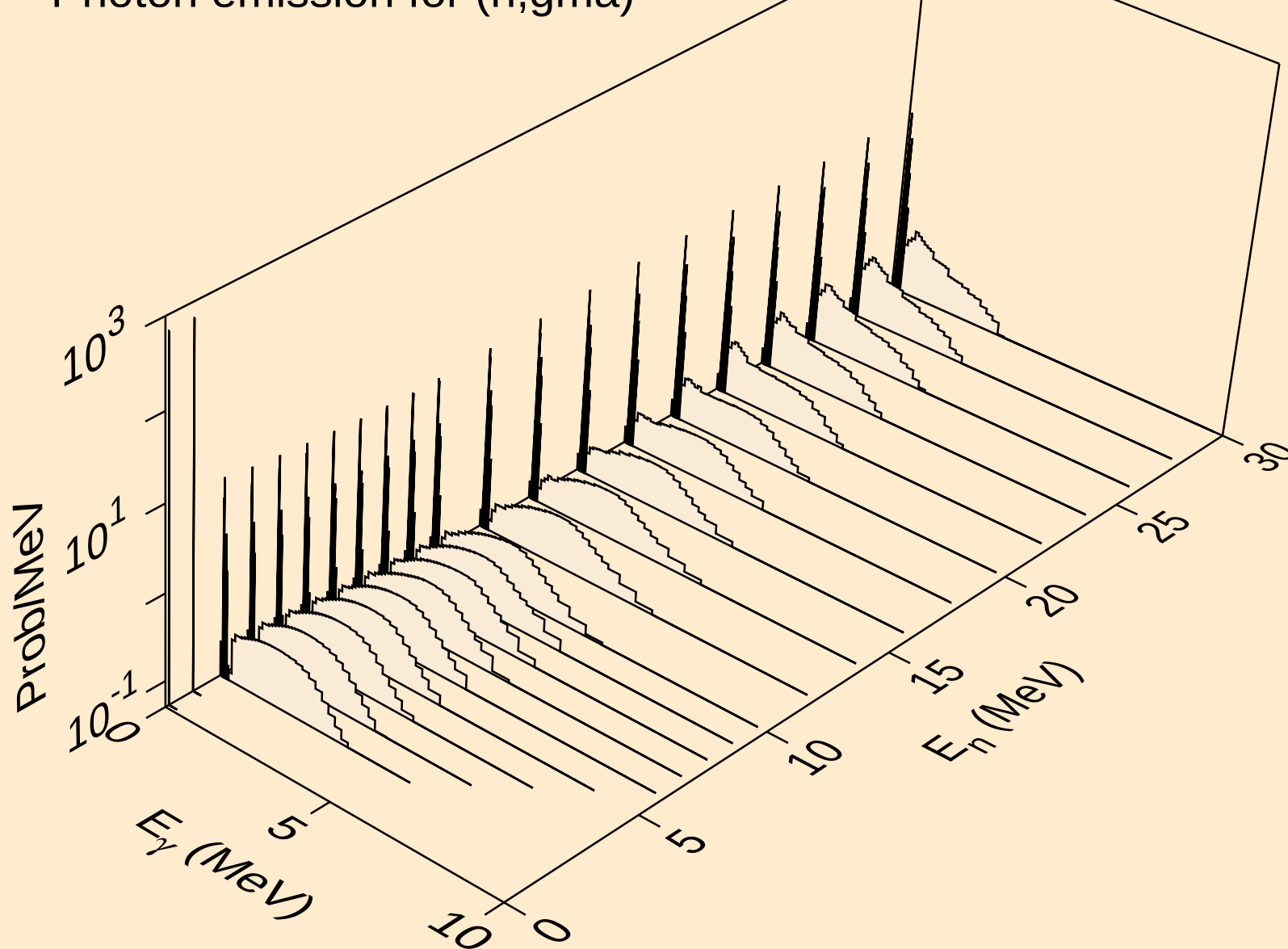
IR178 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
Photon emission for (n,2np)



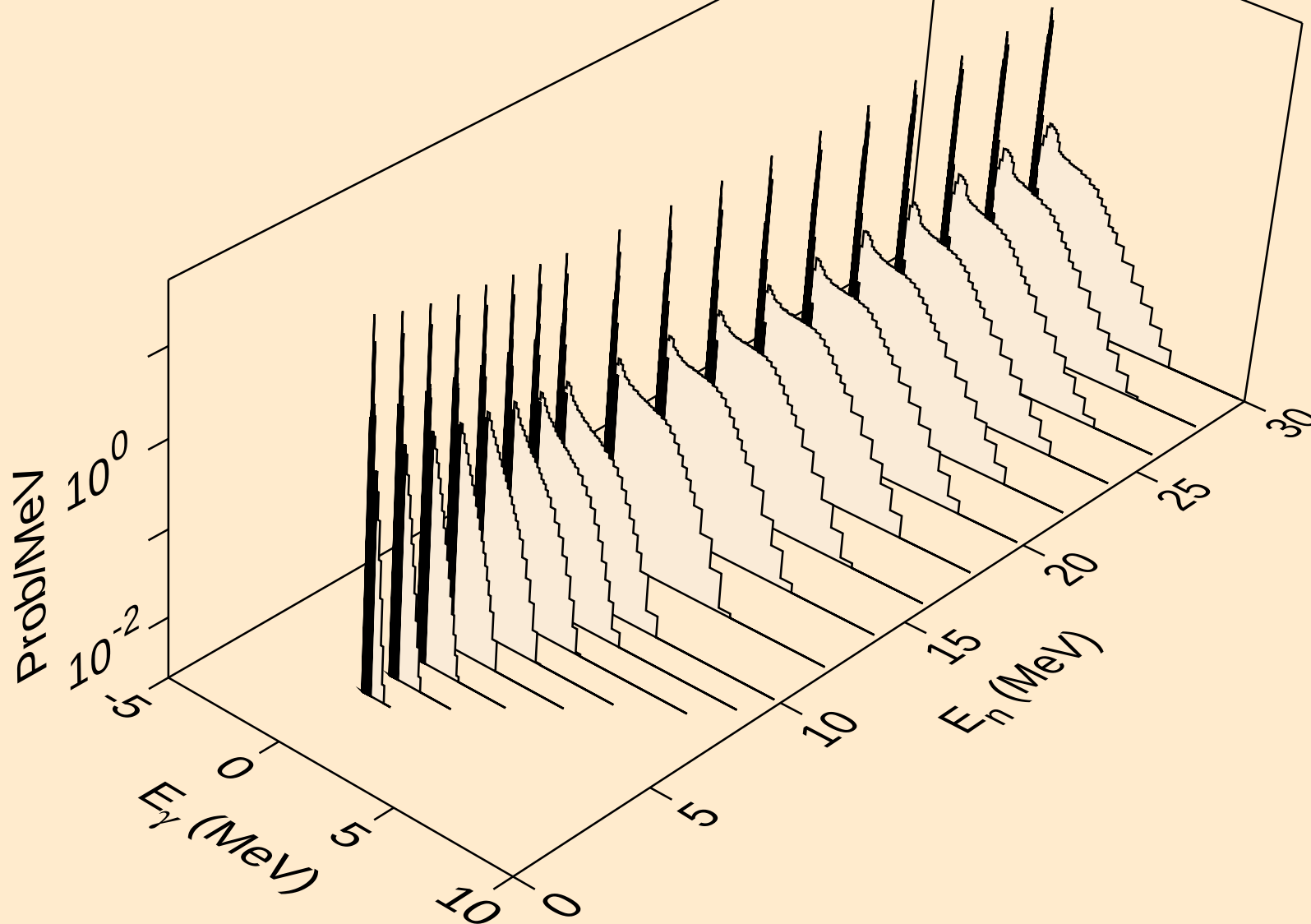
IR178 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
Photon emission for (n,npa)



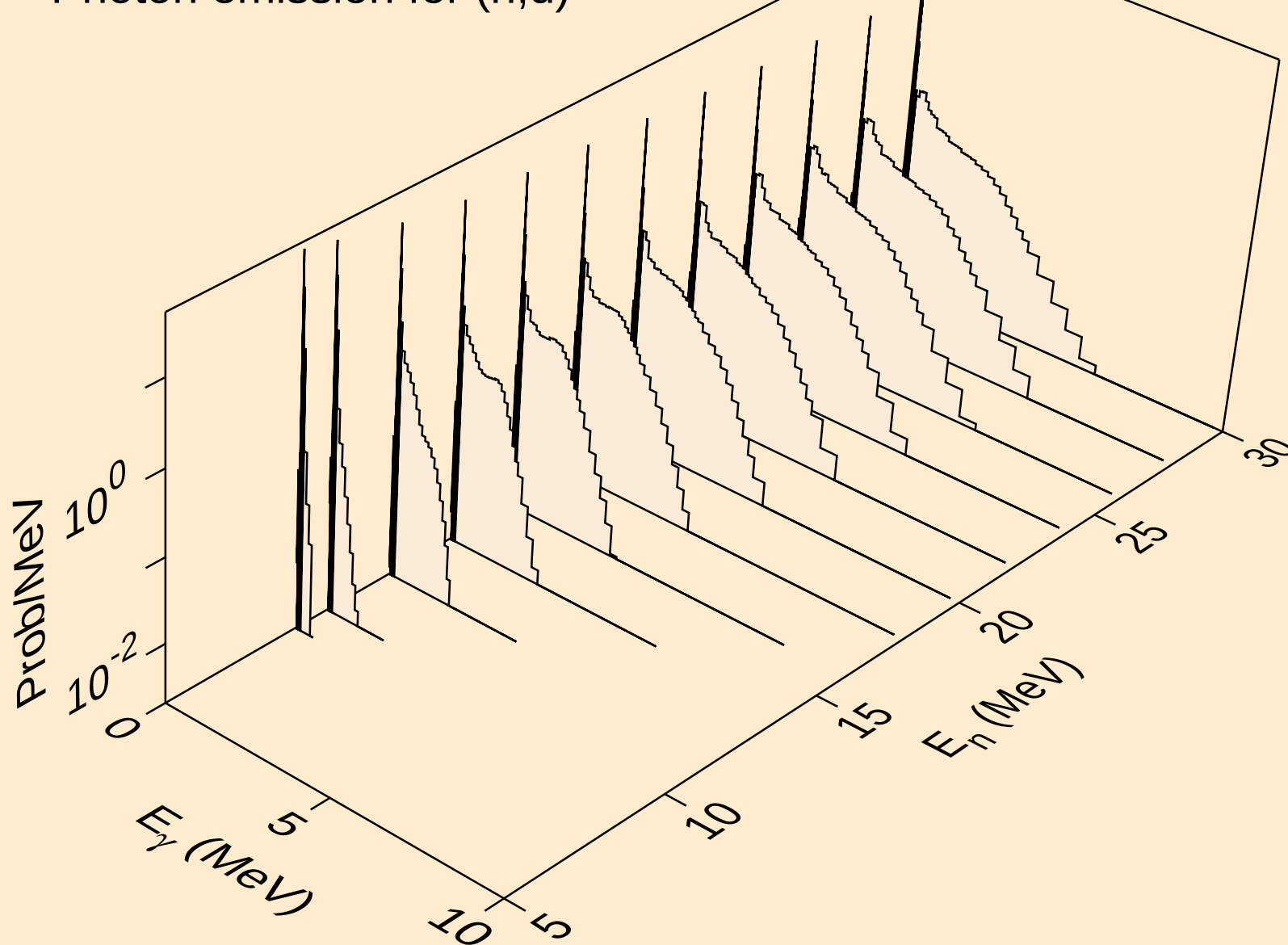
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Photon emission for (n,gma)



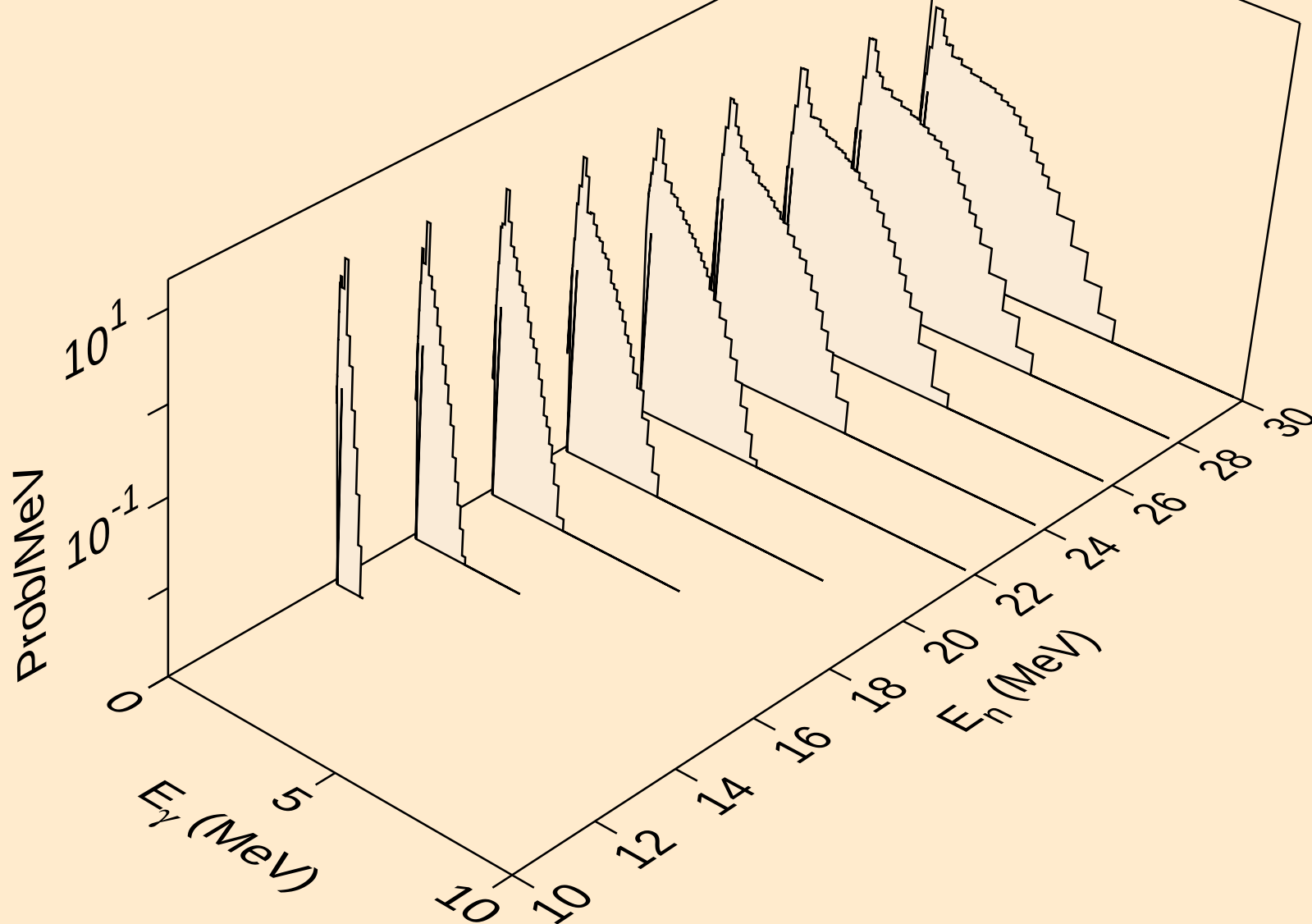
IR178 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
Photon emission for inelastic



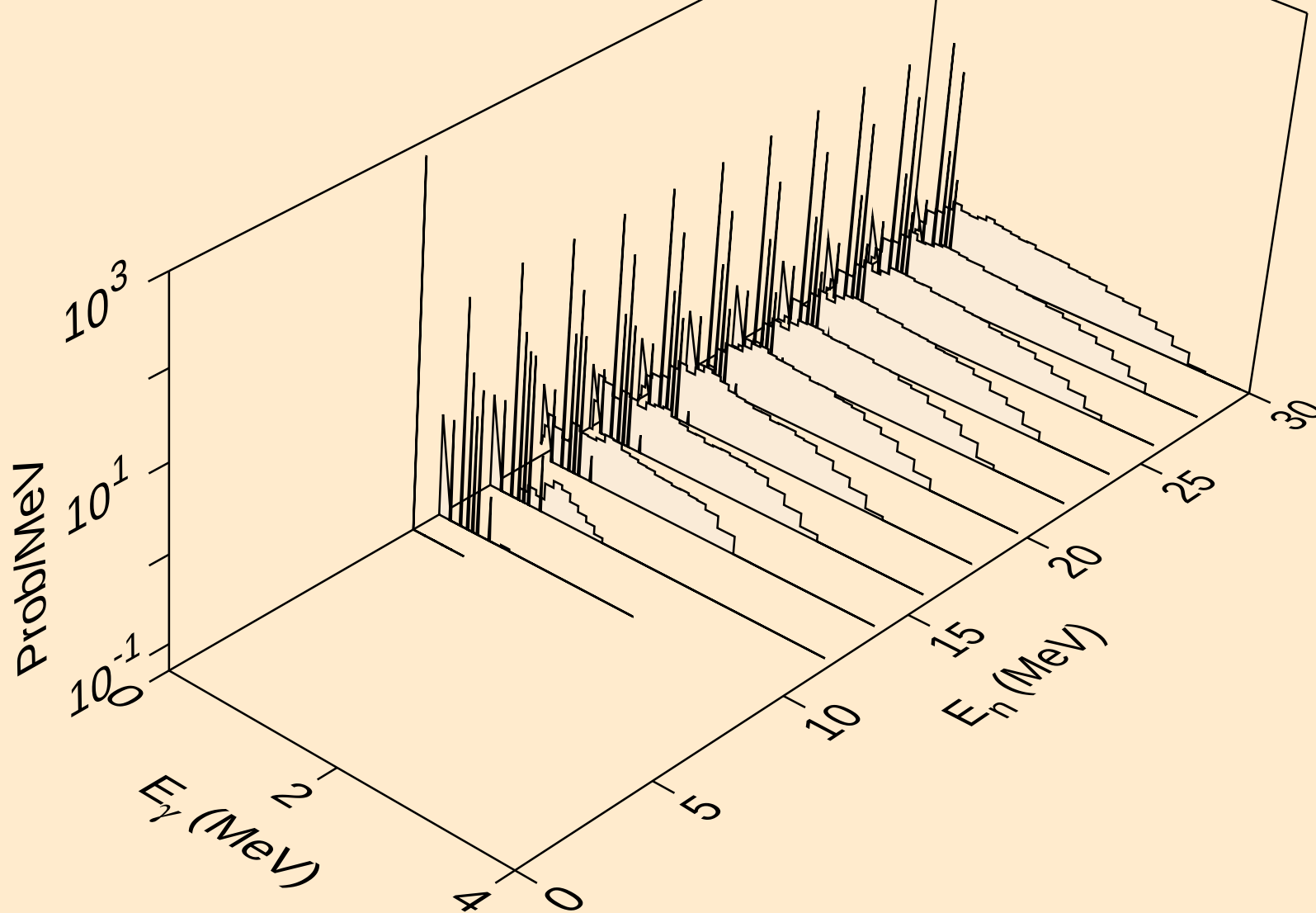
IR178 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
Photon emission for (n,d)



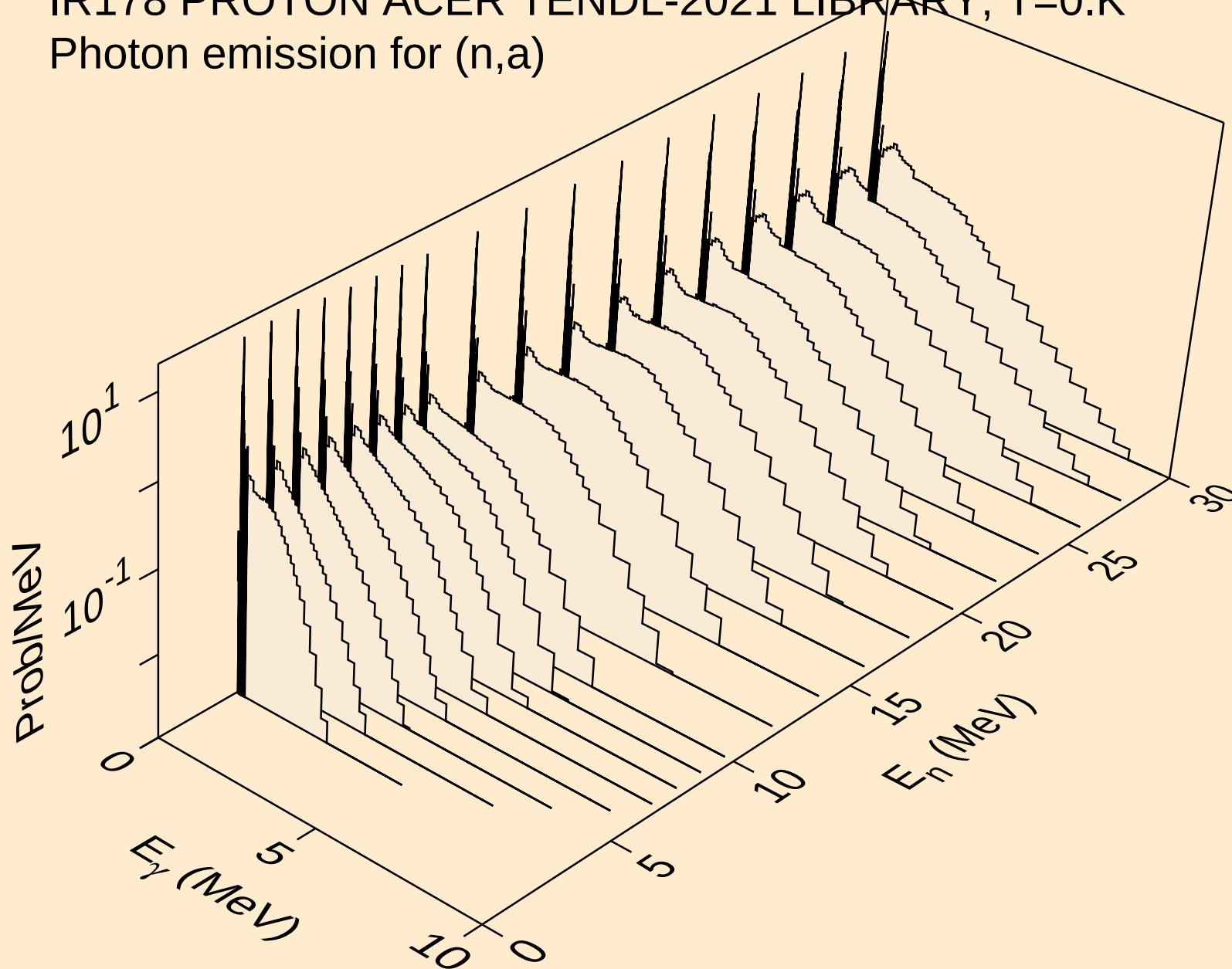
IR178 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
Photon emission for (n,t)



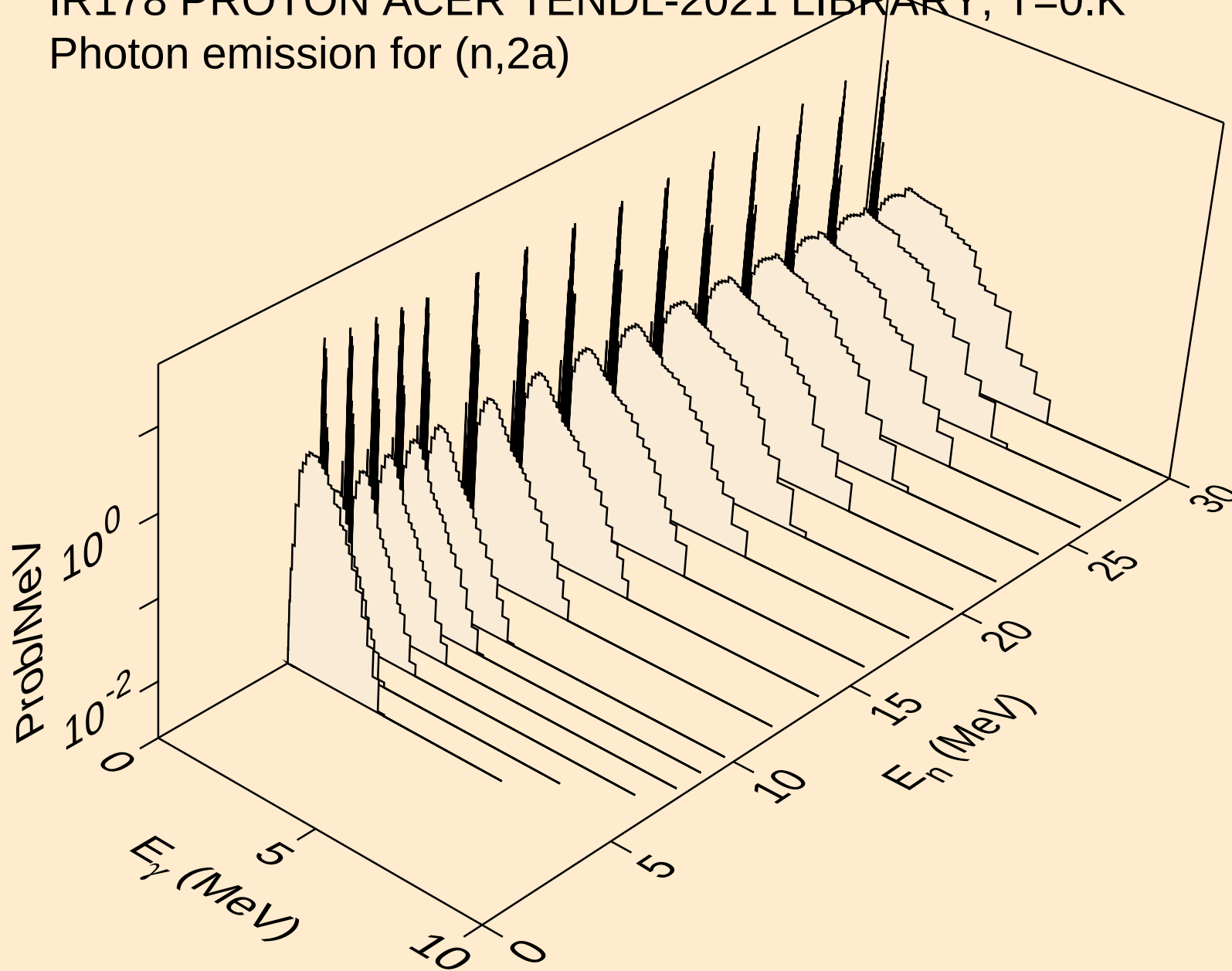
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Photon emission for (n,he3)



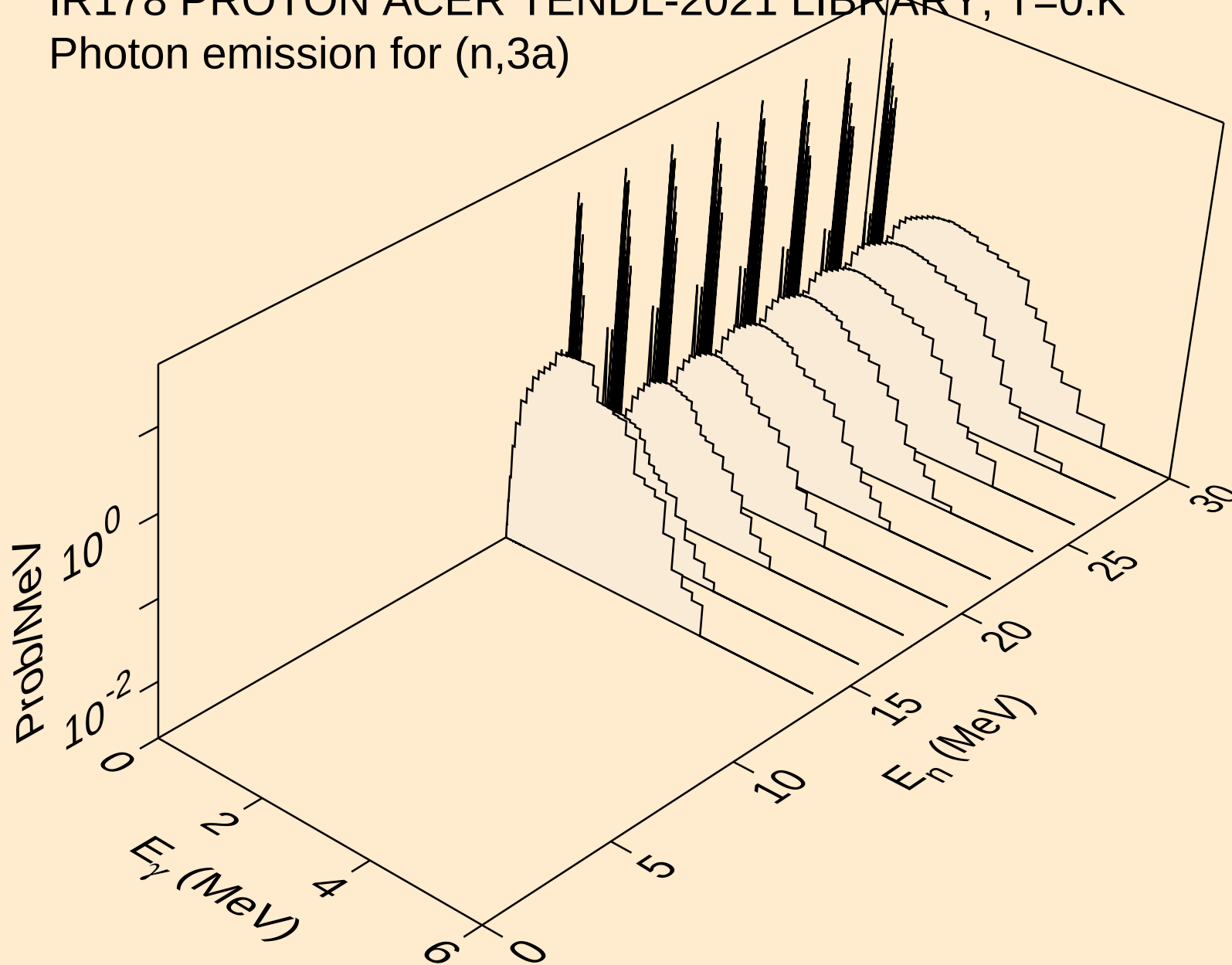
IR178 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
Photon emission for (n,a)



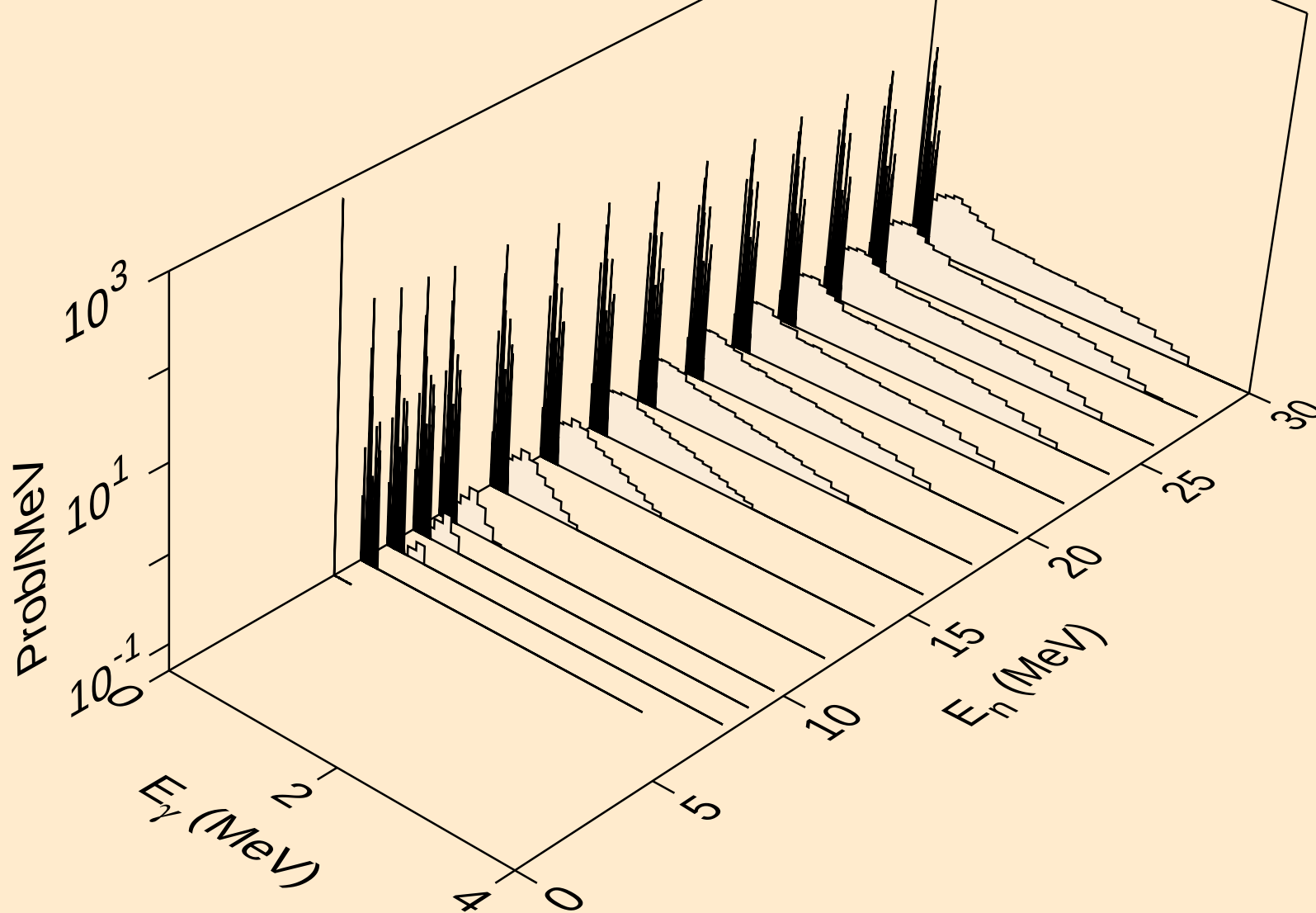
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Photon emission for (n,2a)



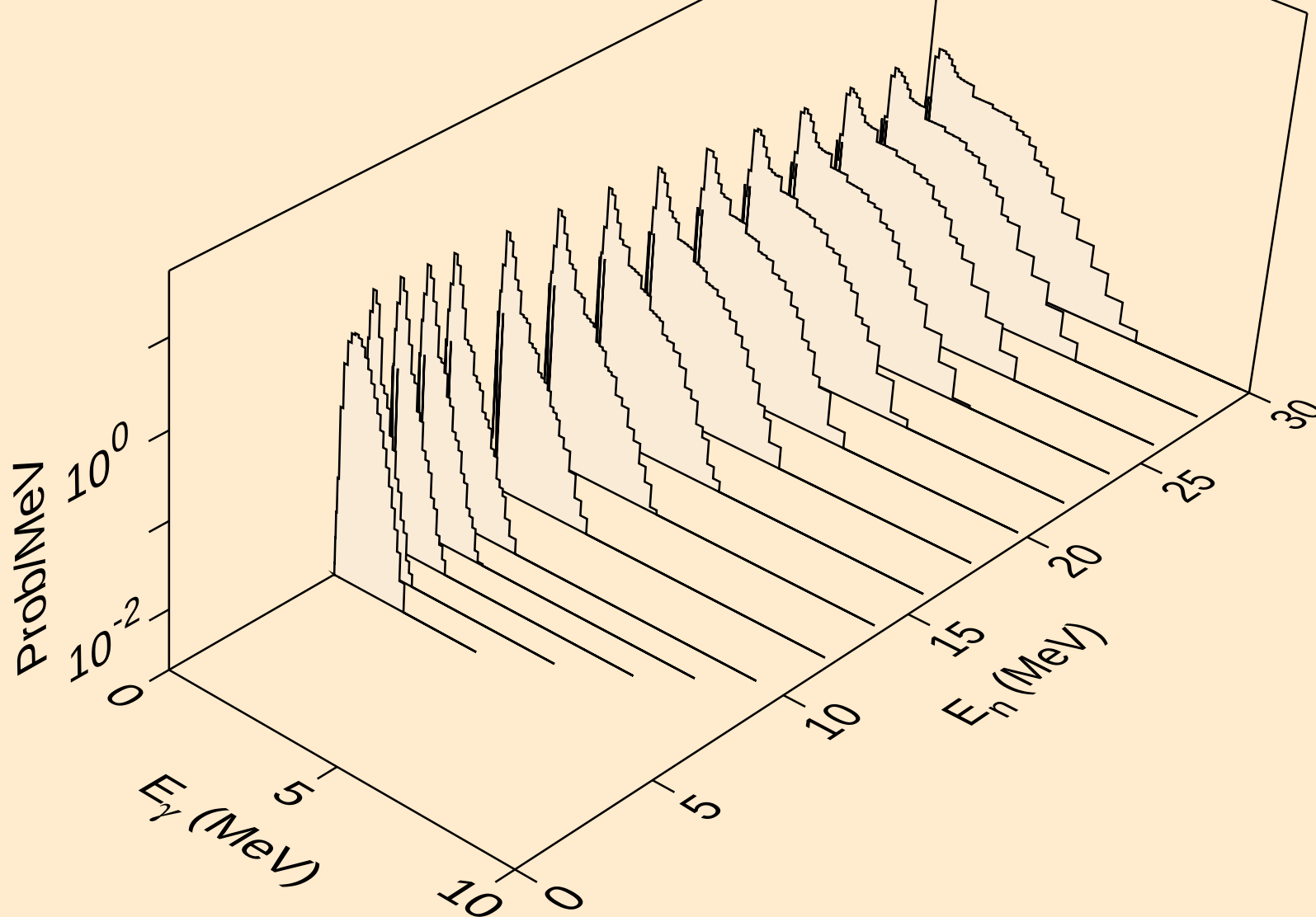
IR178 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
Photon emission for (n,3a)



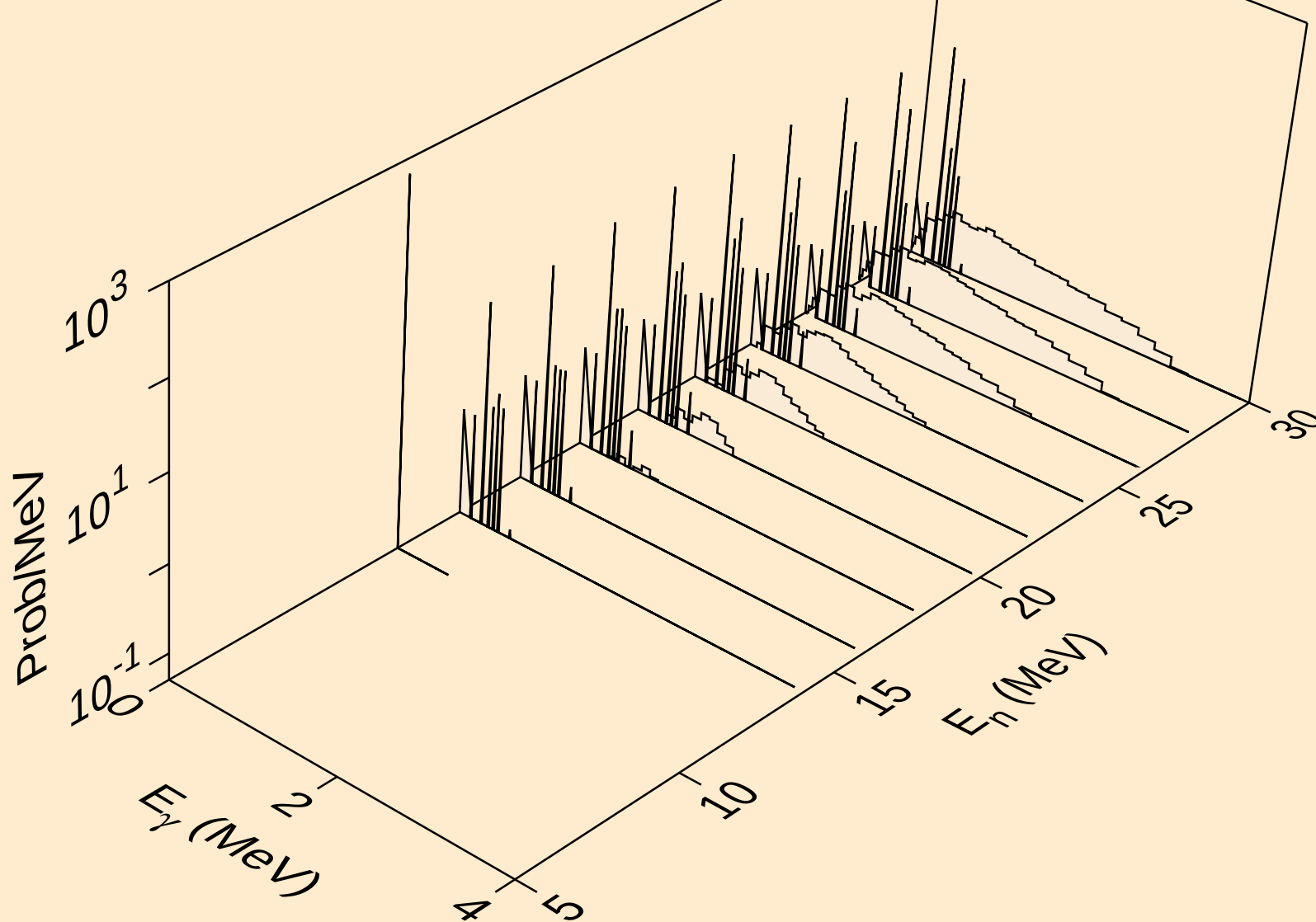
IR178 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
Photon emission for (n,2p)



IR178 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
Photon emission for (n,pa)

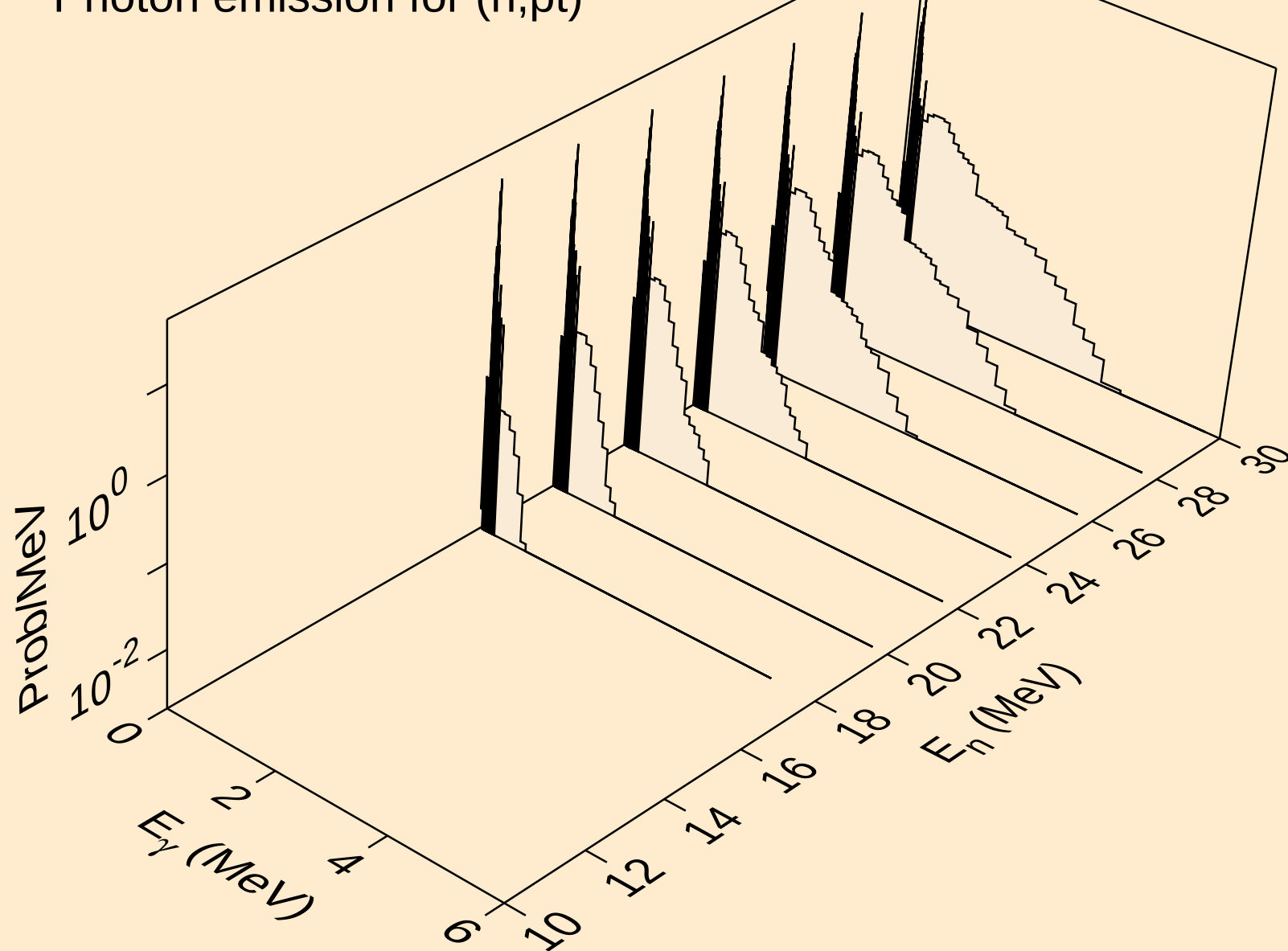


IR178 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
Photon emission for (n,pd)

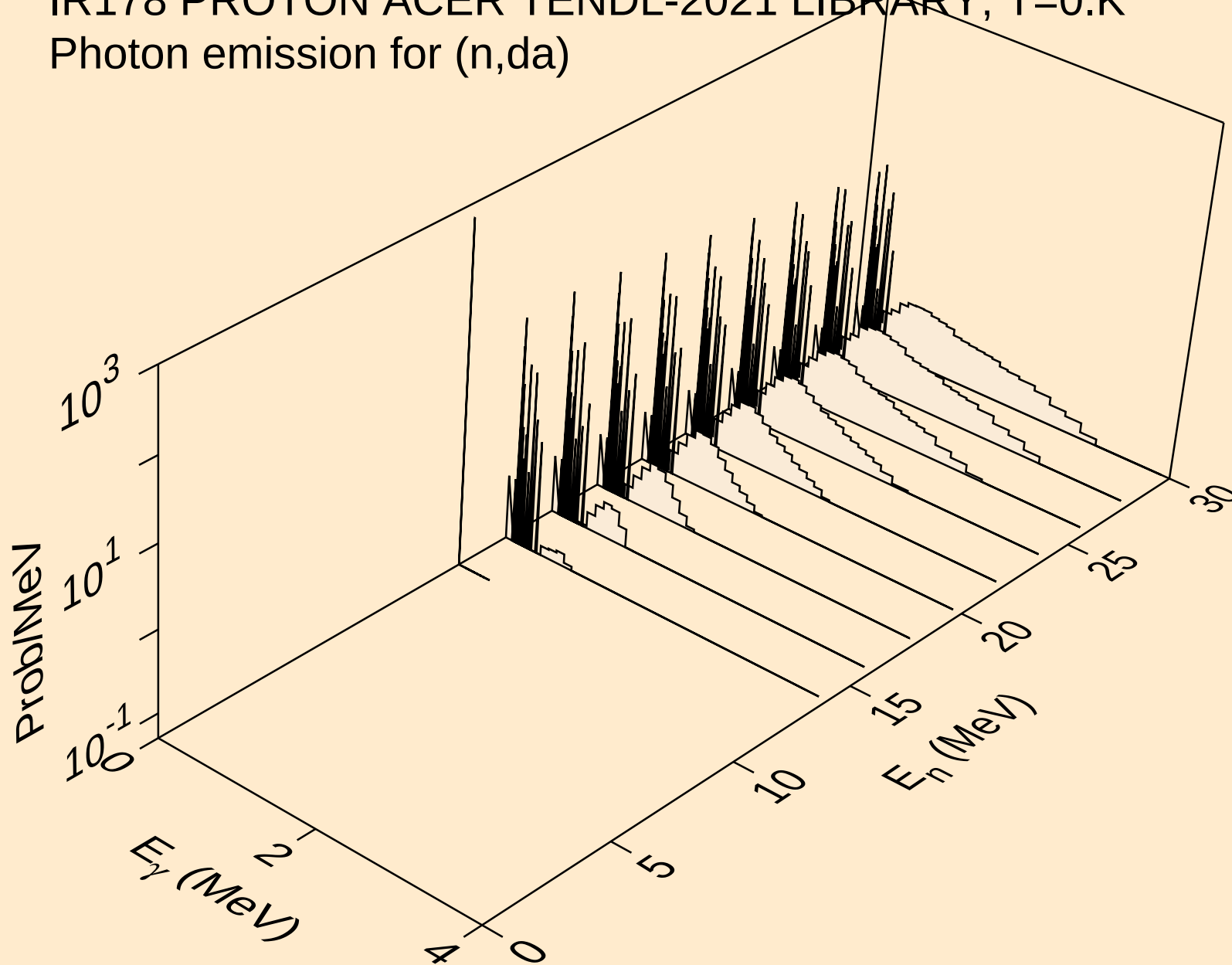


IR178 PROTON ACER TENDL-2021 LIBRARY; T=0.K

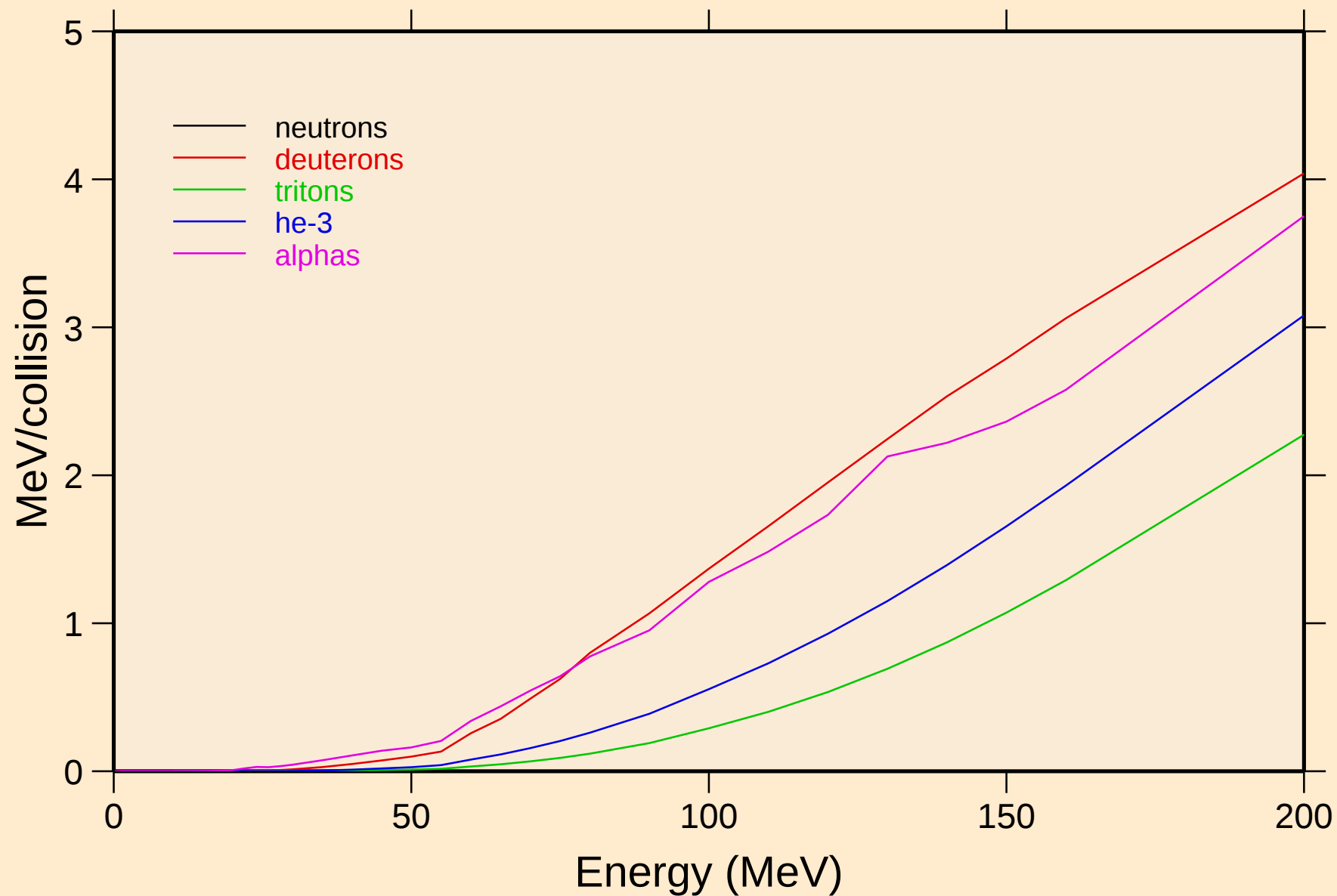
Photon emission for (n,pt)



IR178 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
Photon emission for (n,da)

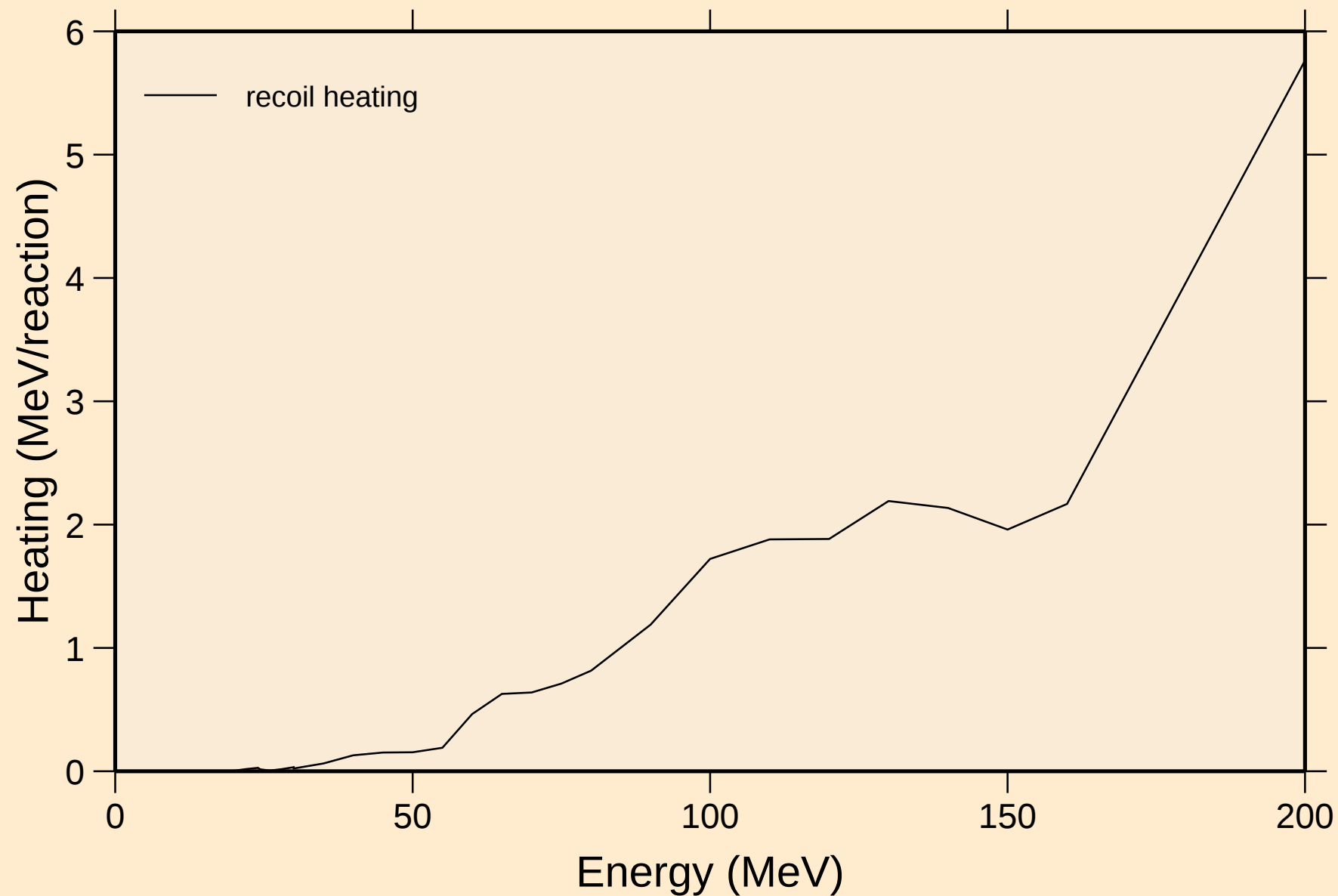


IR178 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
Particle heating contributions



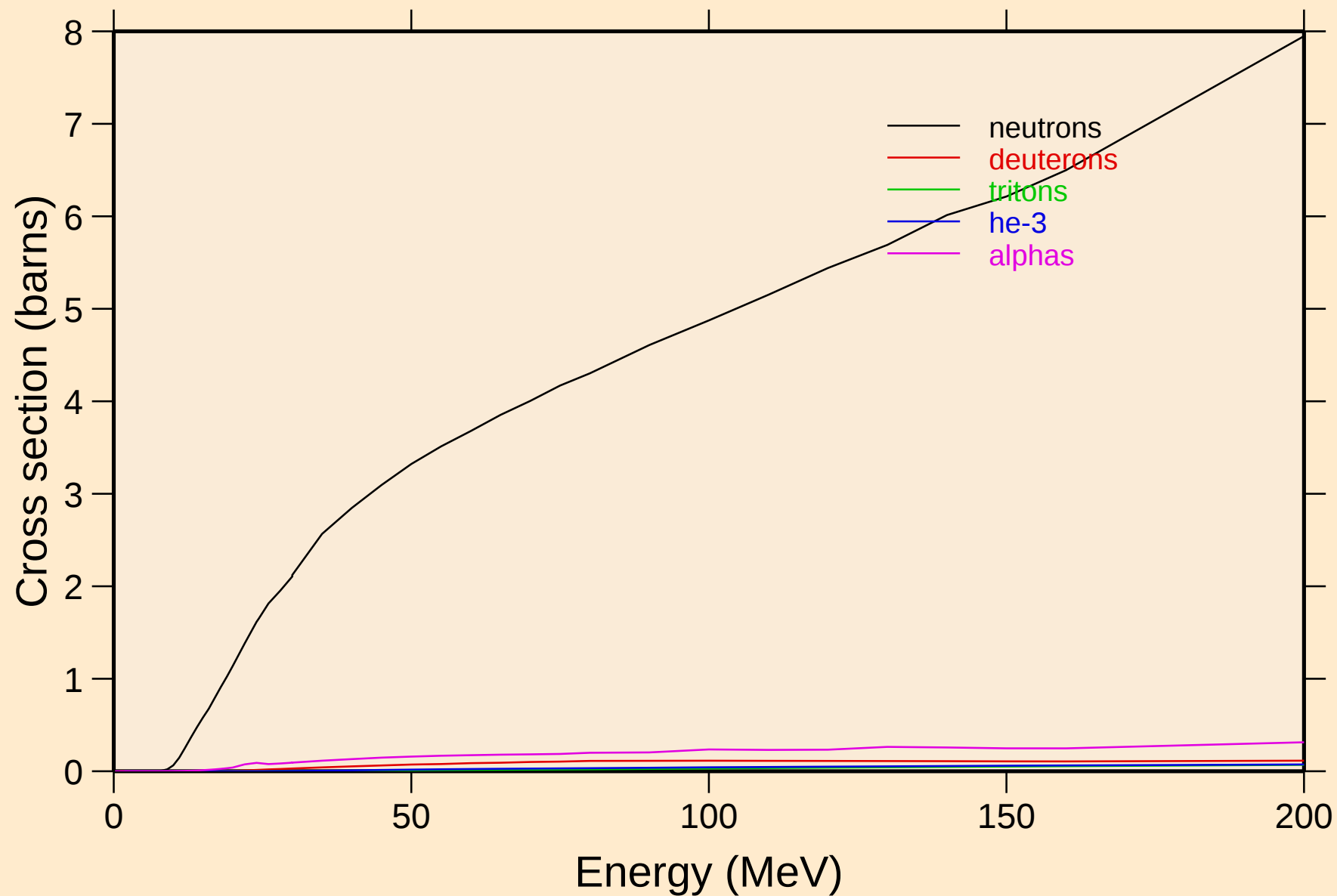
IR178 PROTON ACER TENDL-2021 LIBRARY; T=0.K

Recoil Heating

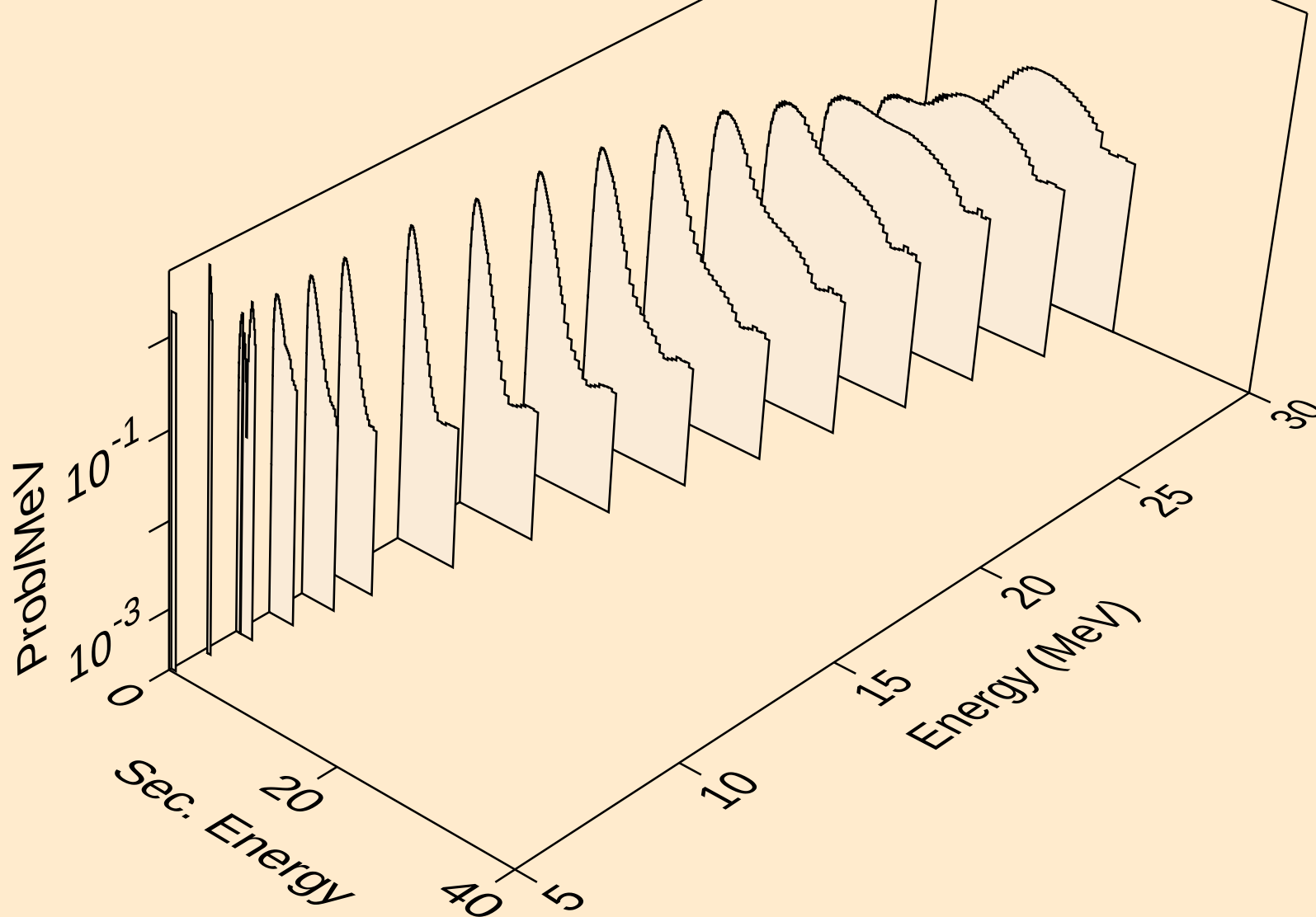


# IR178 PROTON ACER TENDL-2021 LIBRARY; T=0.K

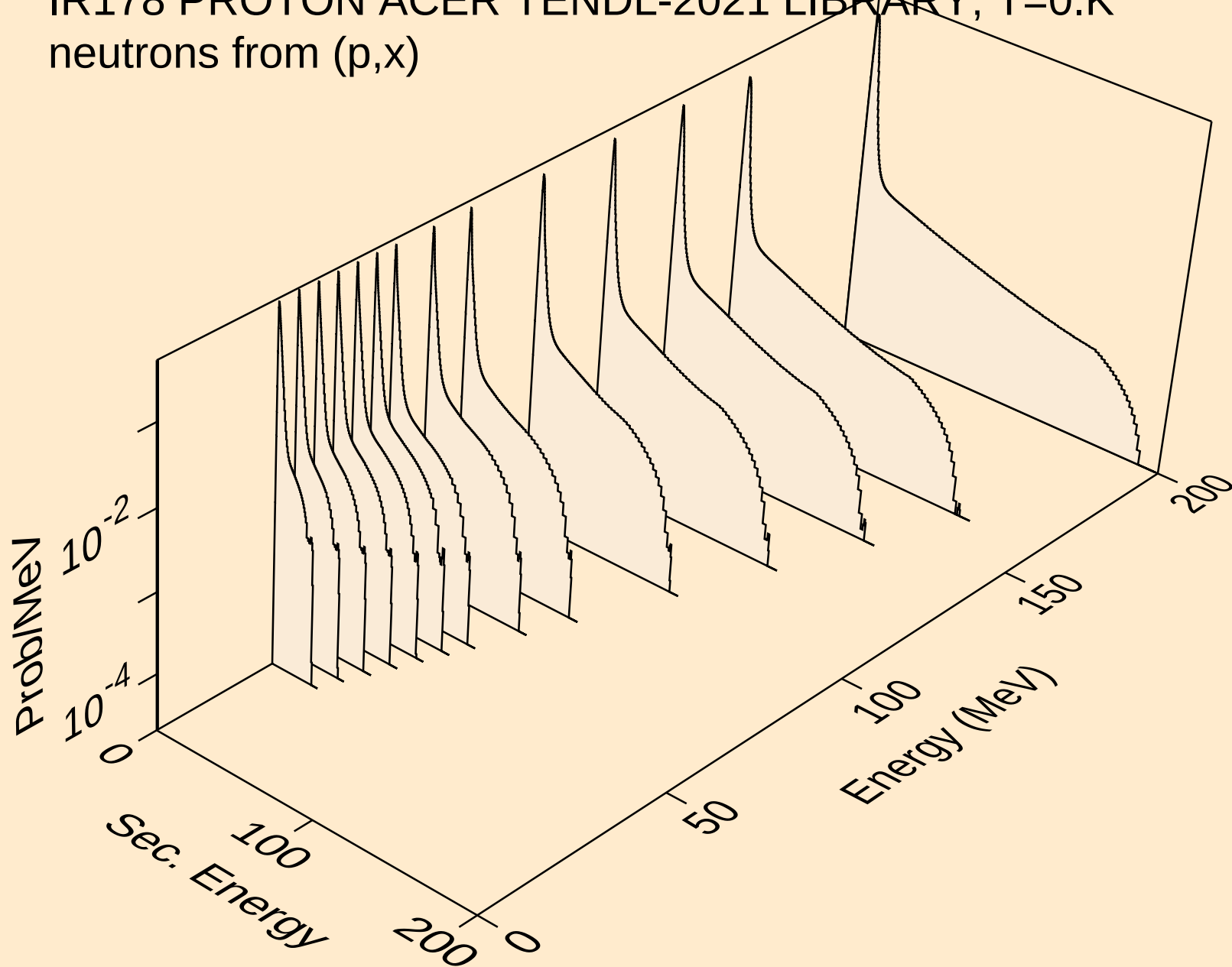
## Particle production cross sections



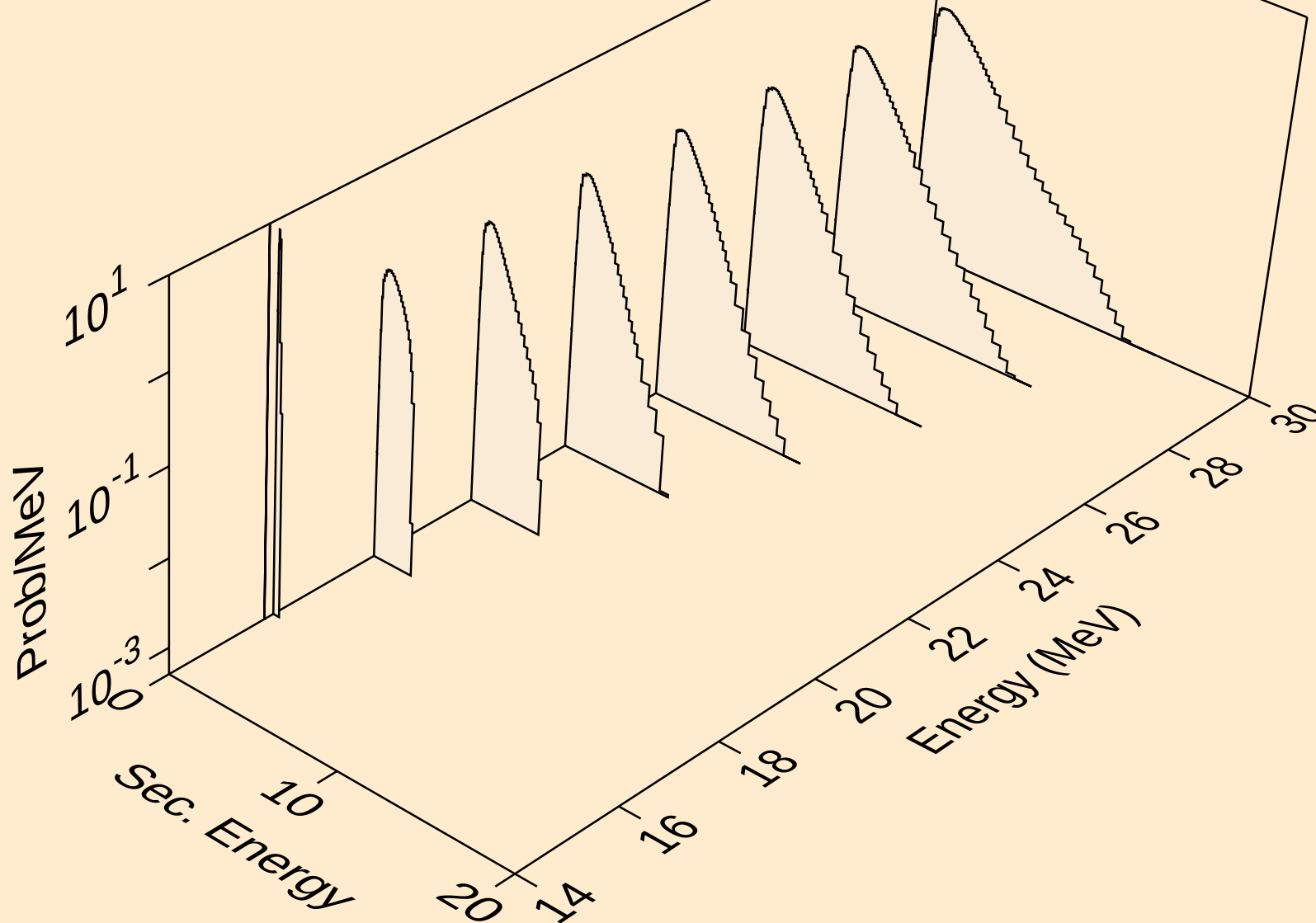
IR178 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
neutrons from (p,n)



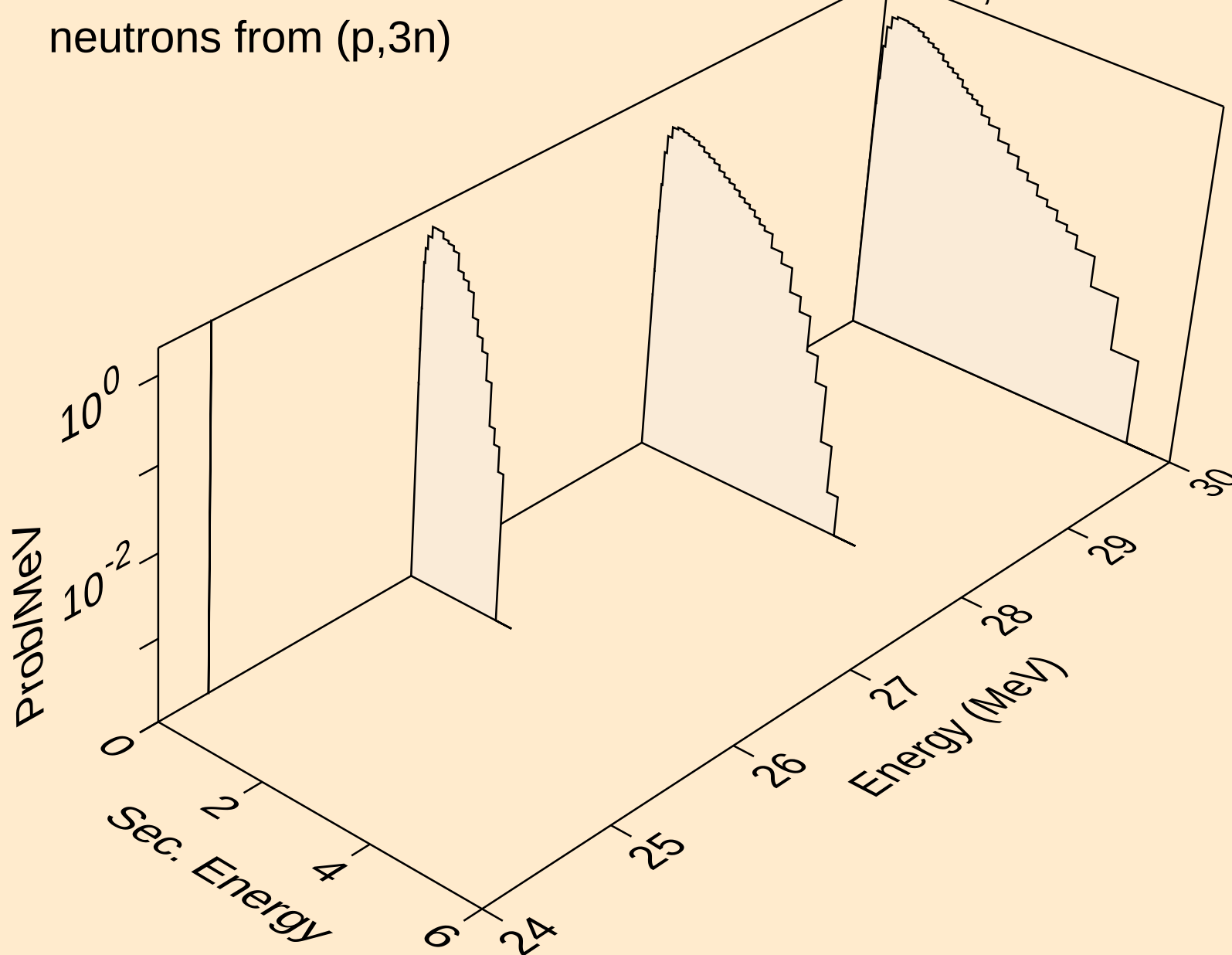
IR178 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
neutrons from (p,x)



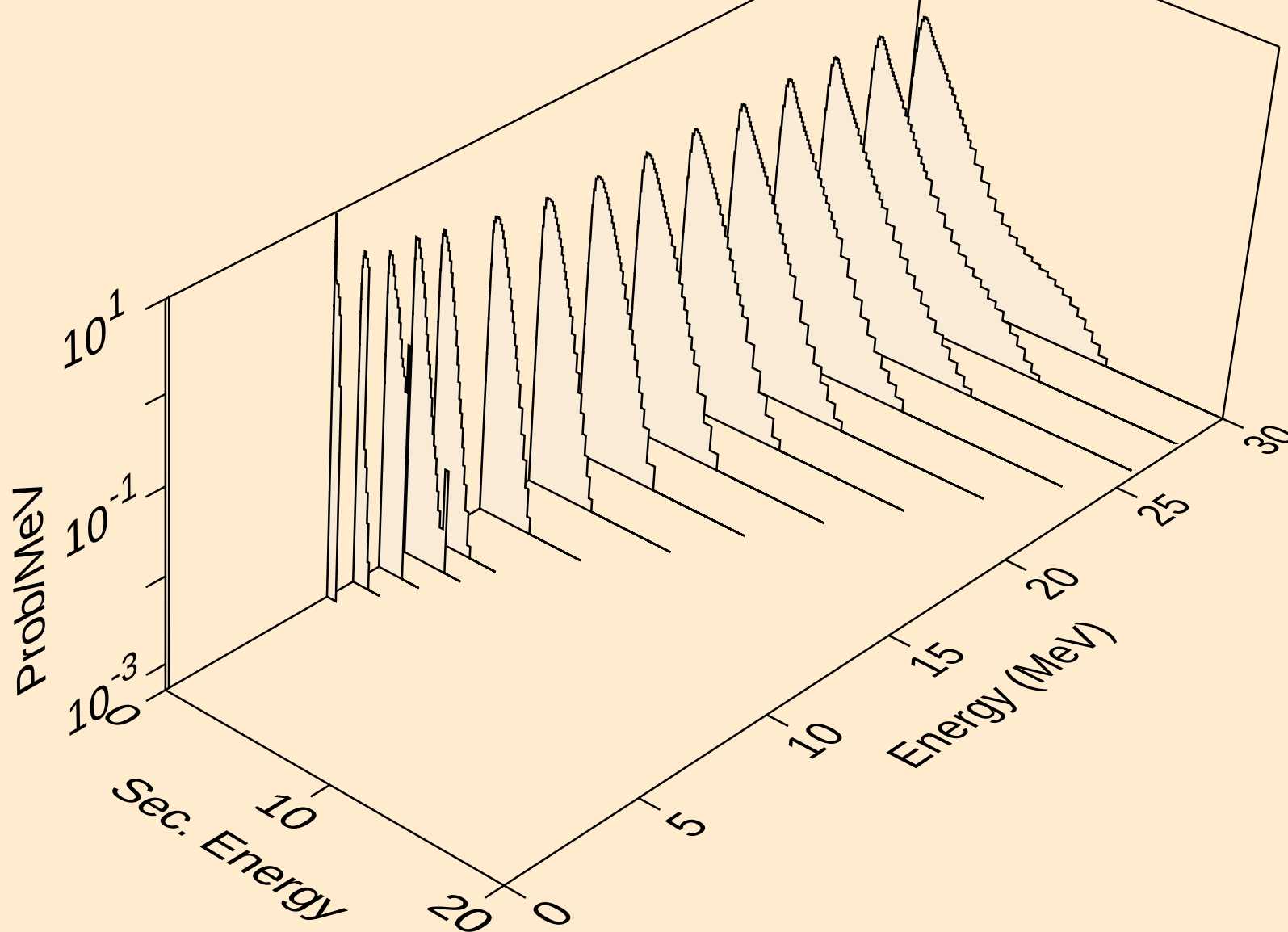
IR178 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
neutrons from (p,2n)



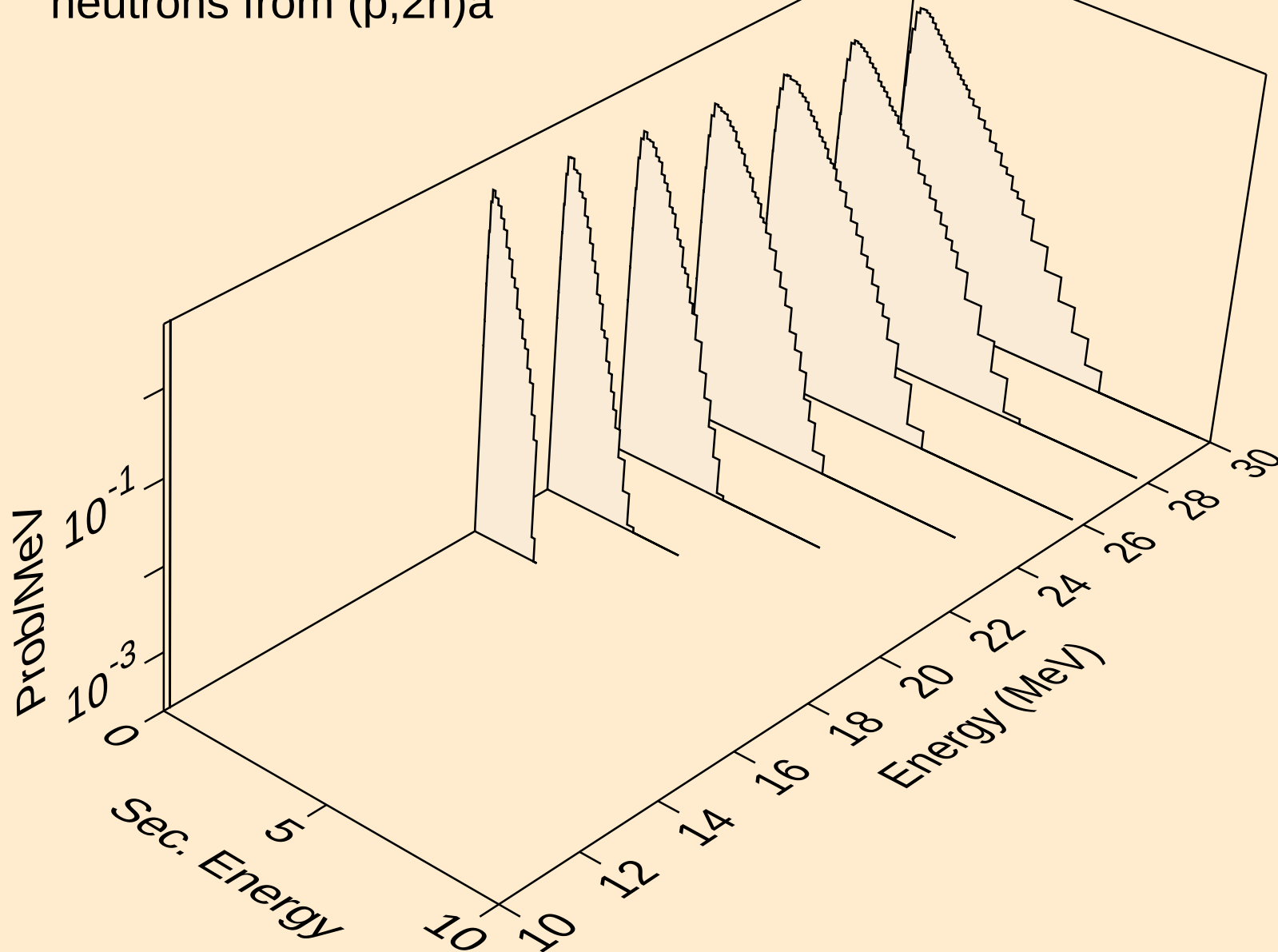
IR178 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
neutrons from (p,3n)



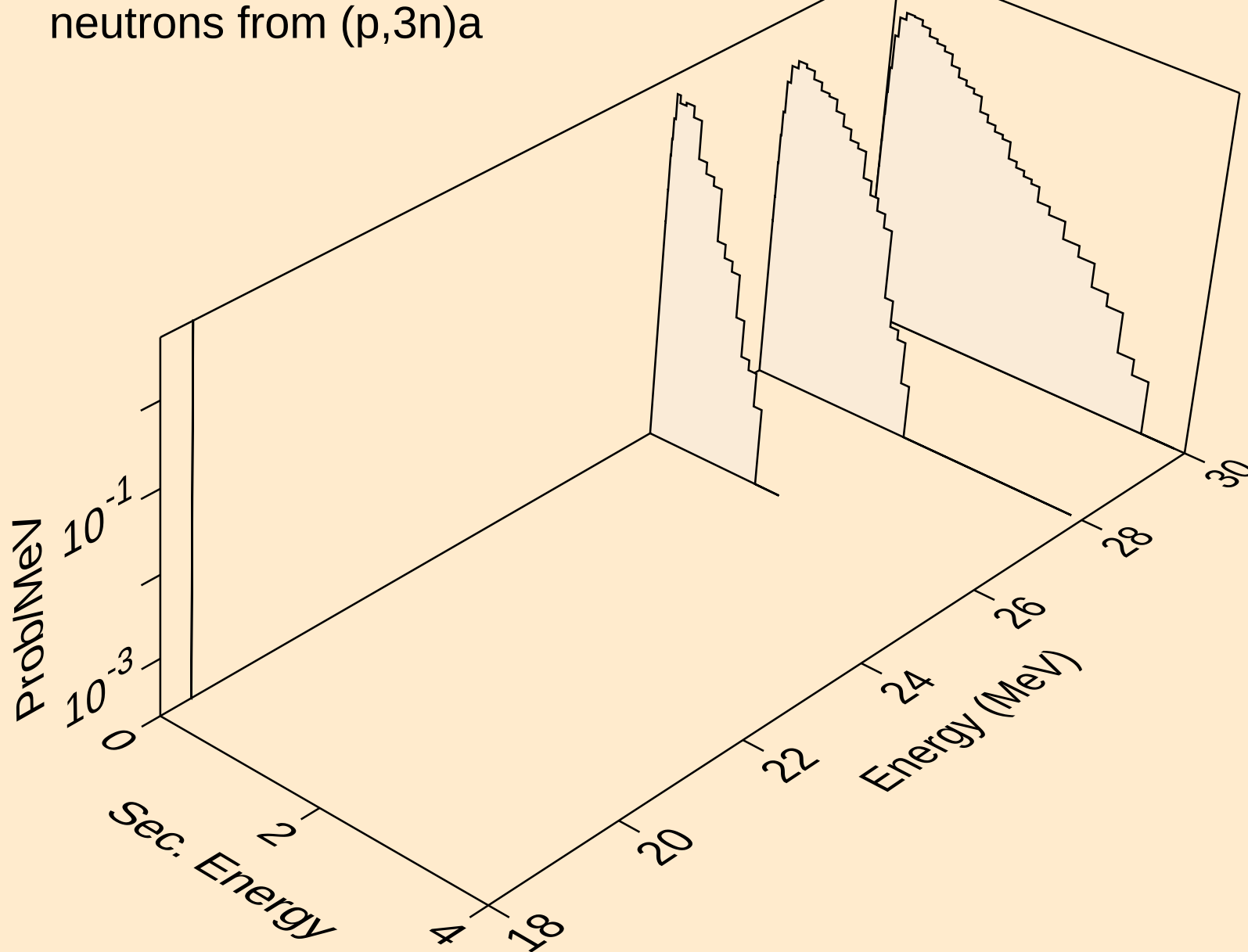
IR178 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
neutrons from (p,n\*)a



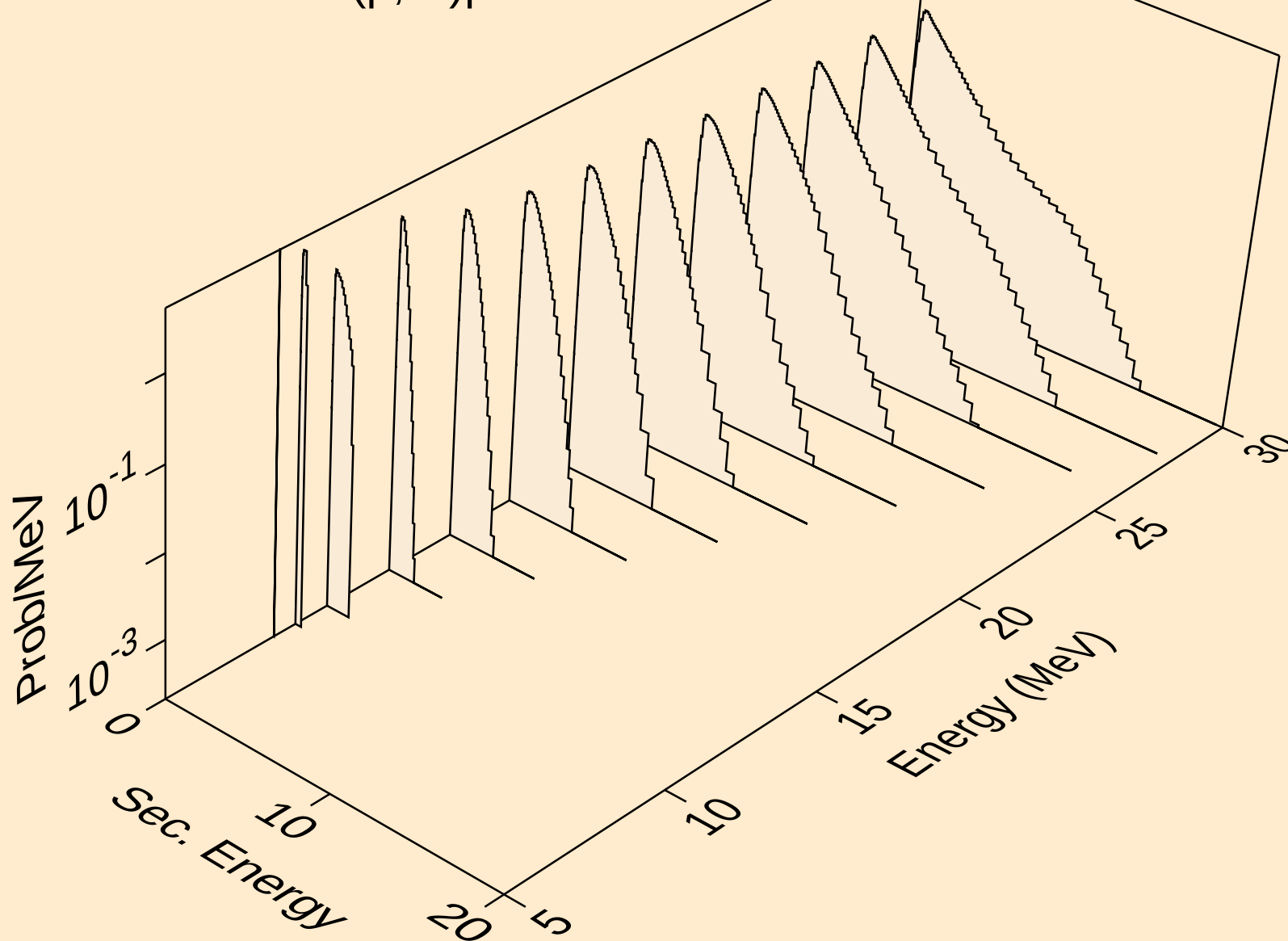
IR178 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
neutrons from (p,2n)a



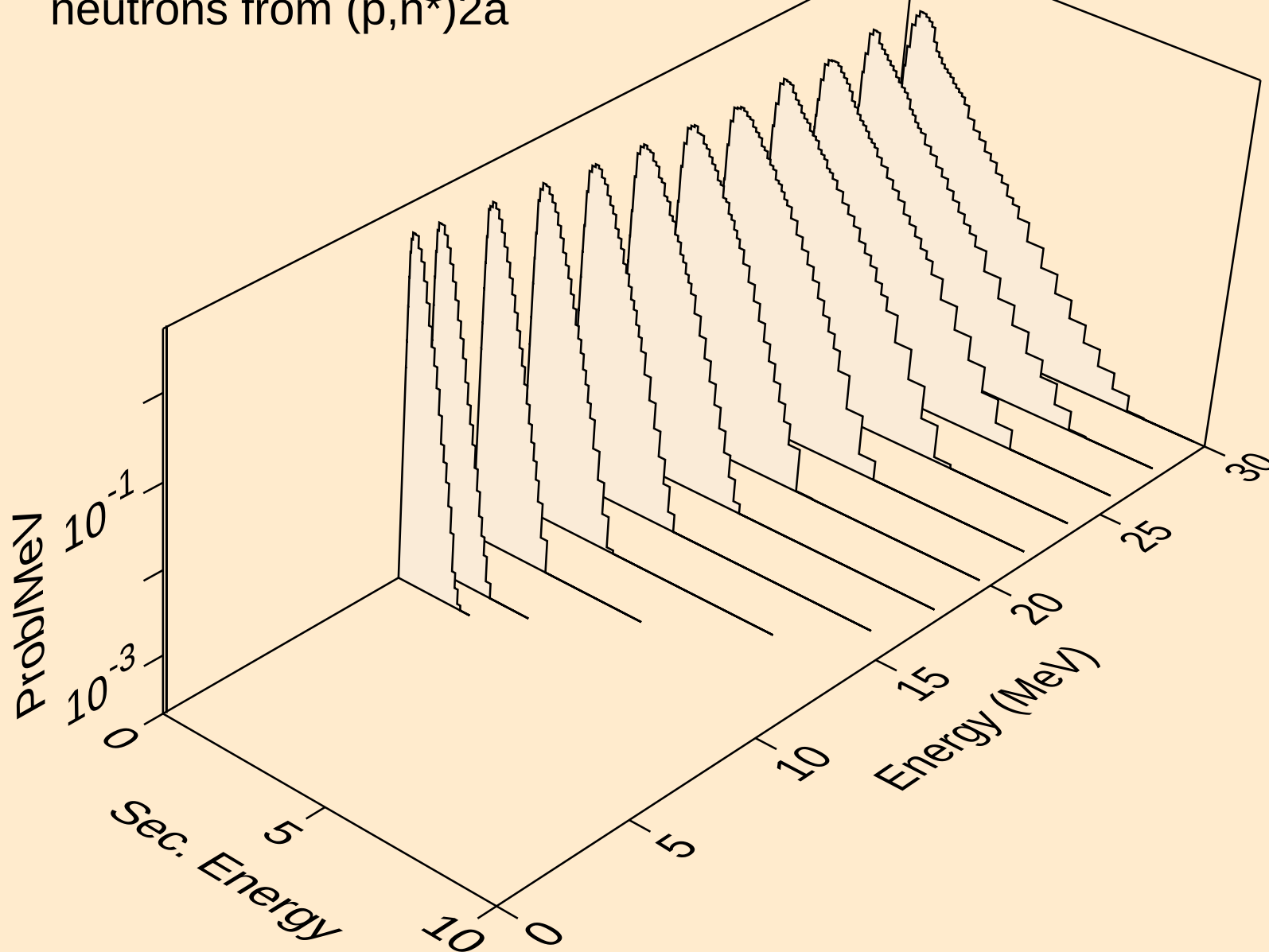
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neutrons from (p,3n)a



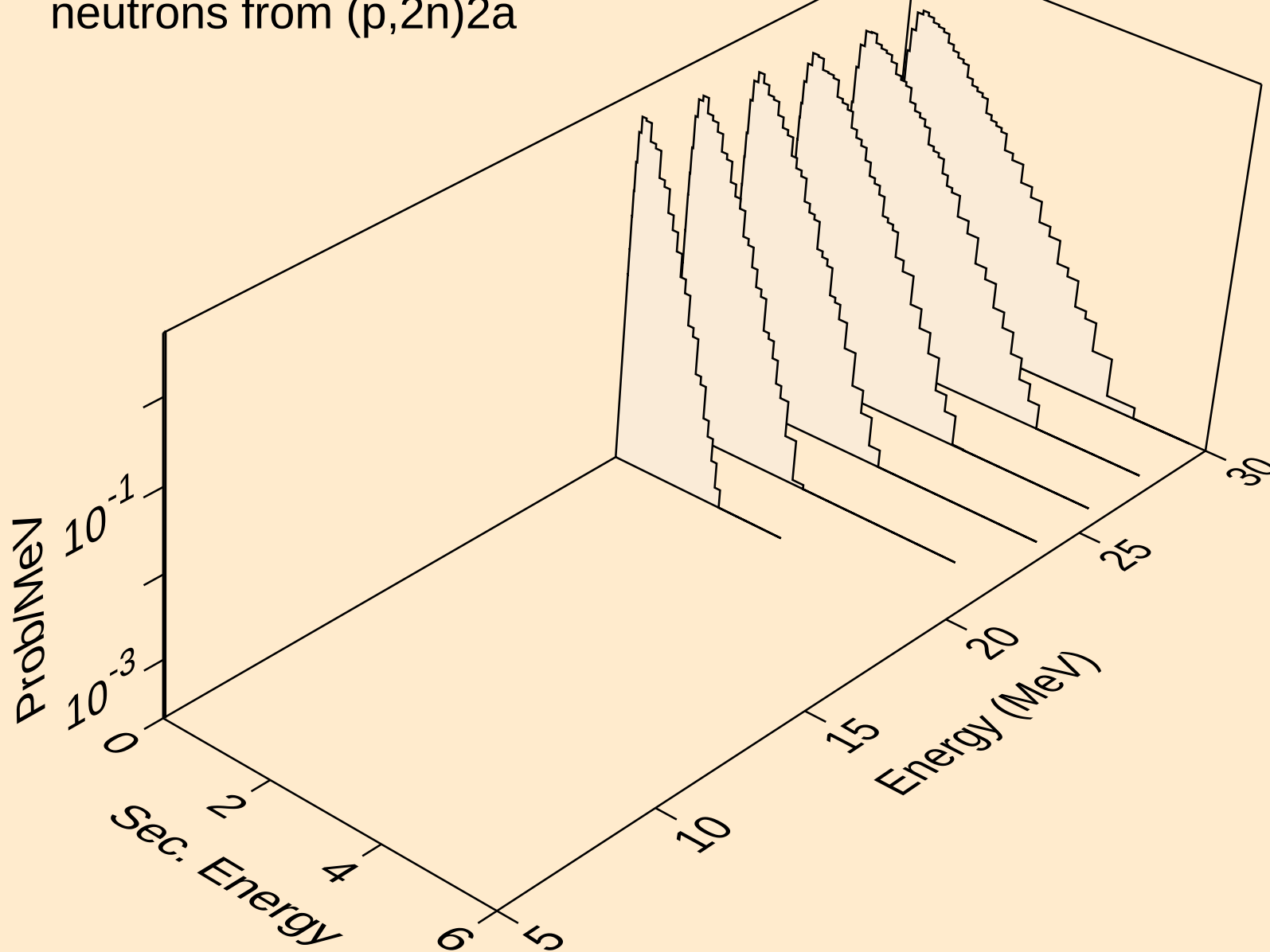
IR178 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
neutrons from (p,n\*)p



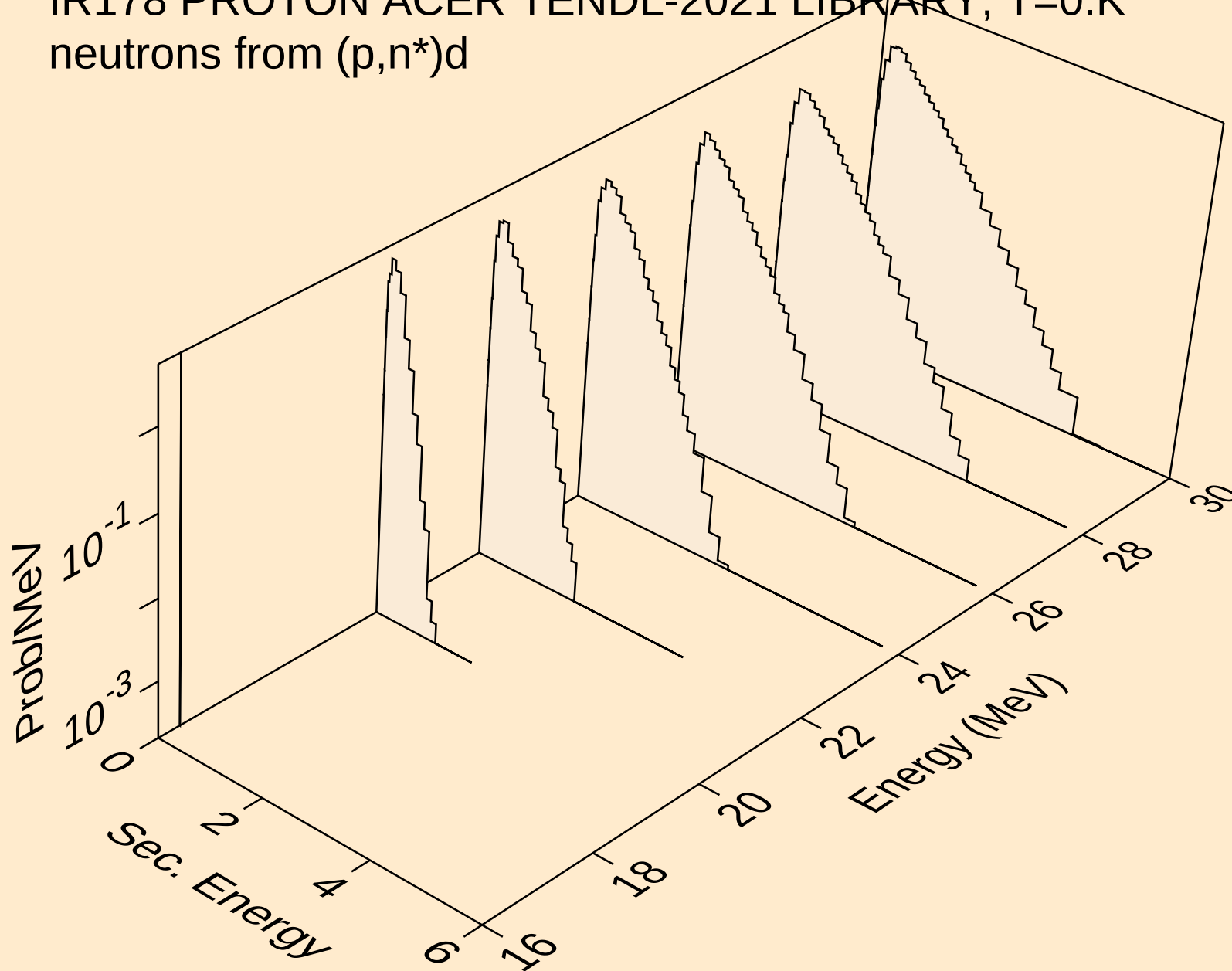
IR178 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
neutrons from (p,n\*)2a



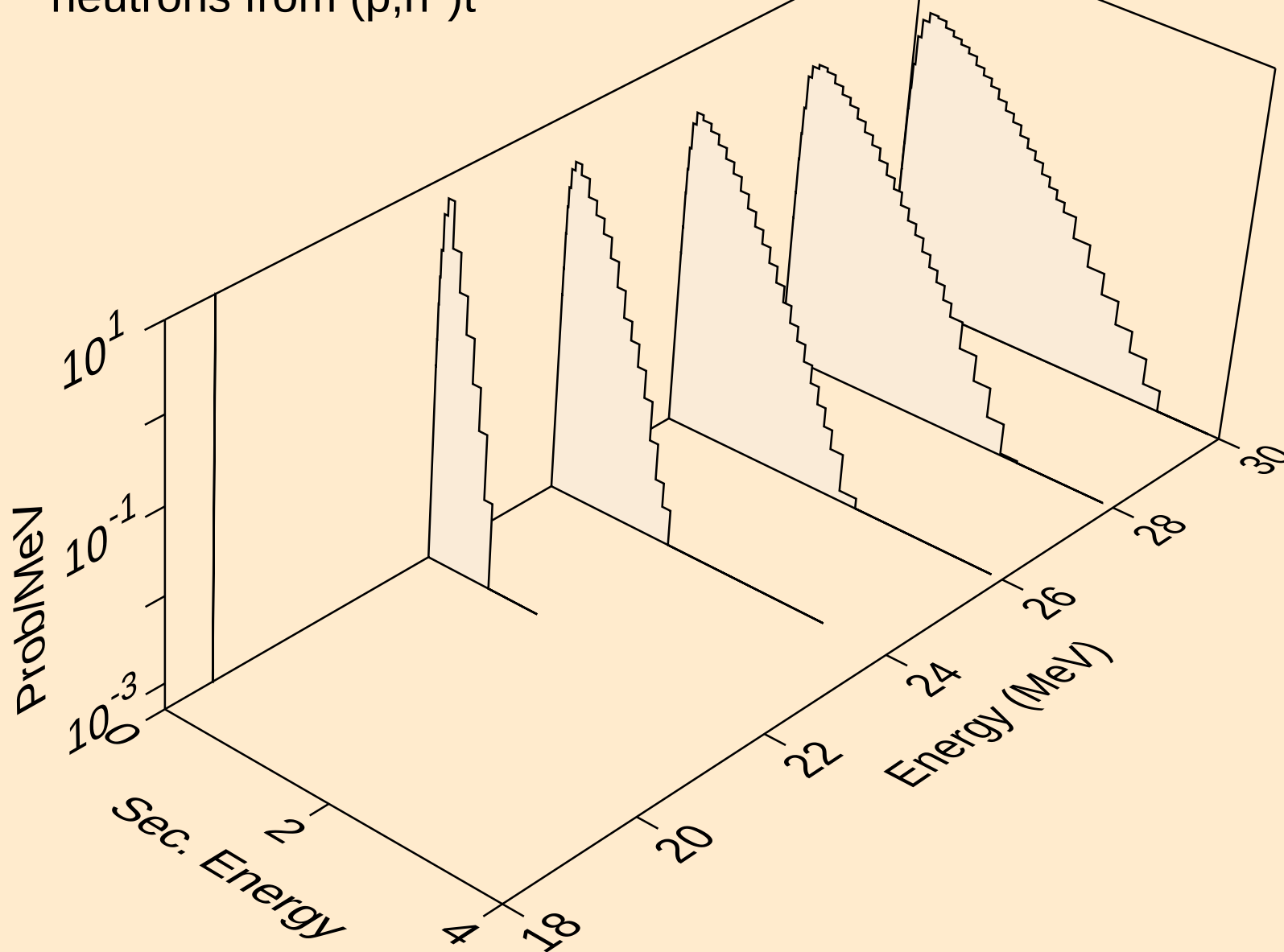
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neutrons from (p,2n)2a



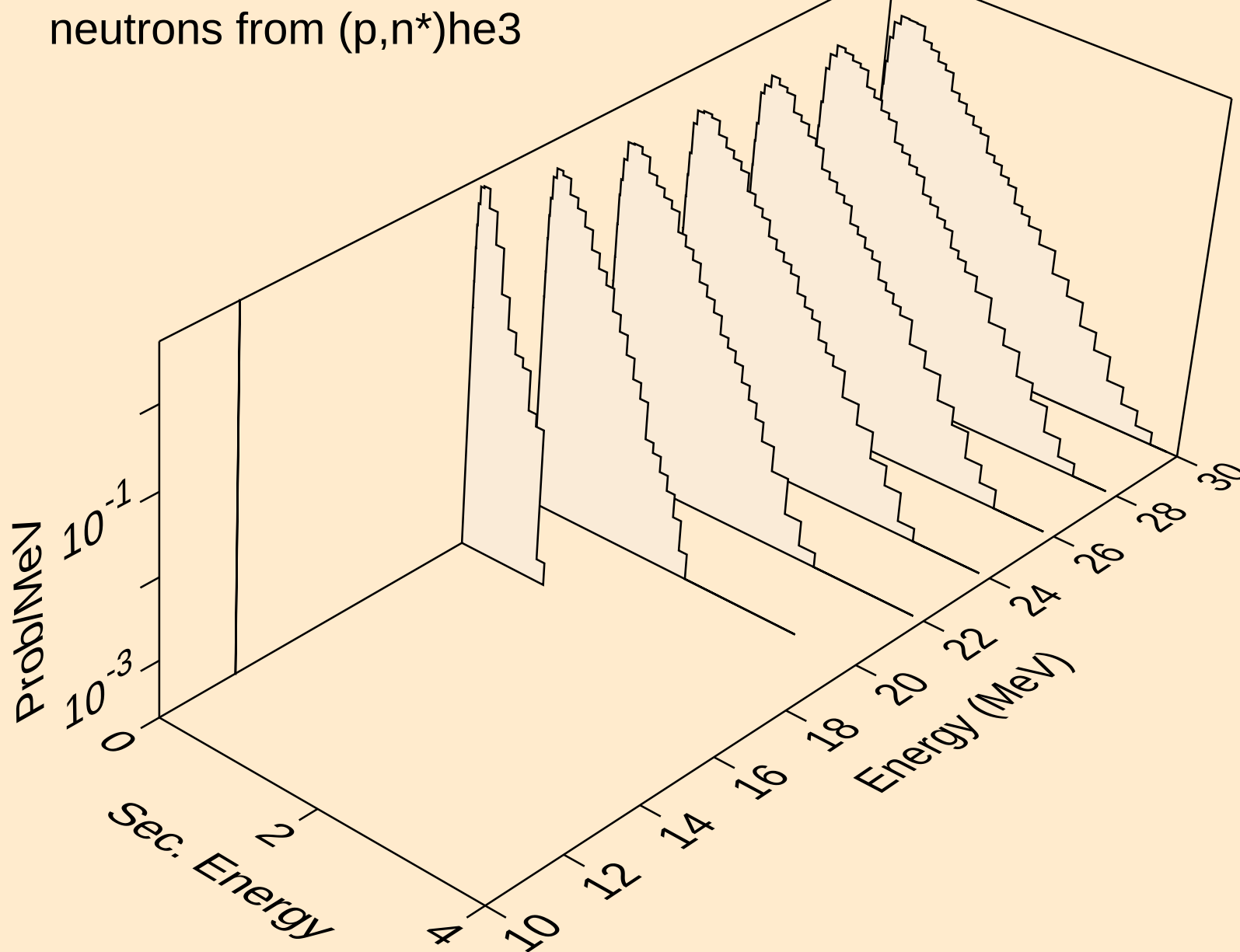
IR178 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
neutrons from (p,n\*)d



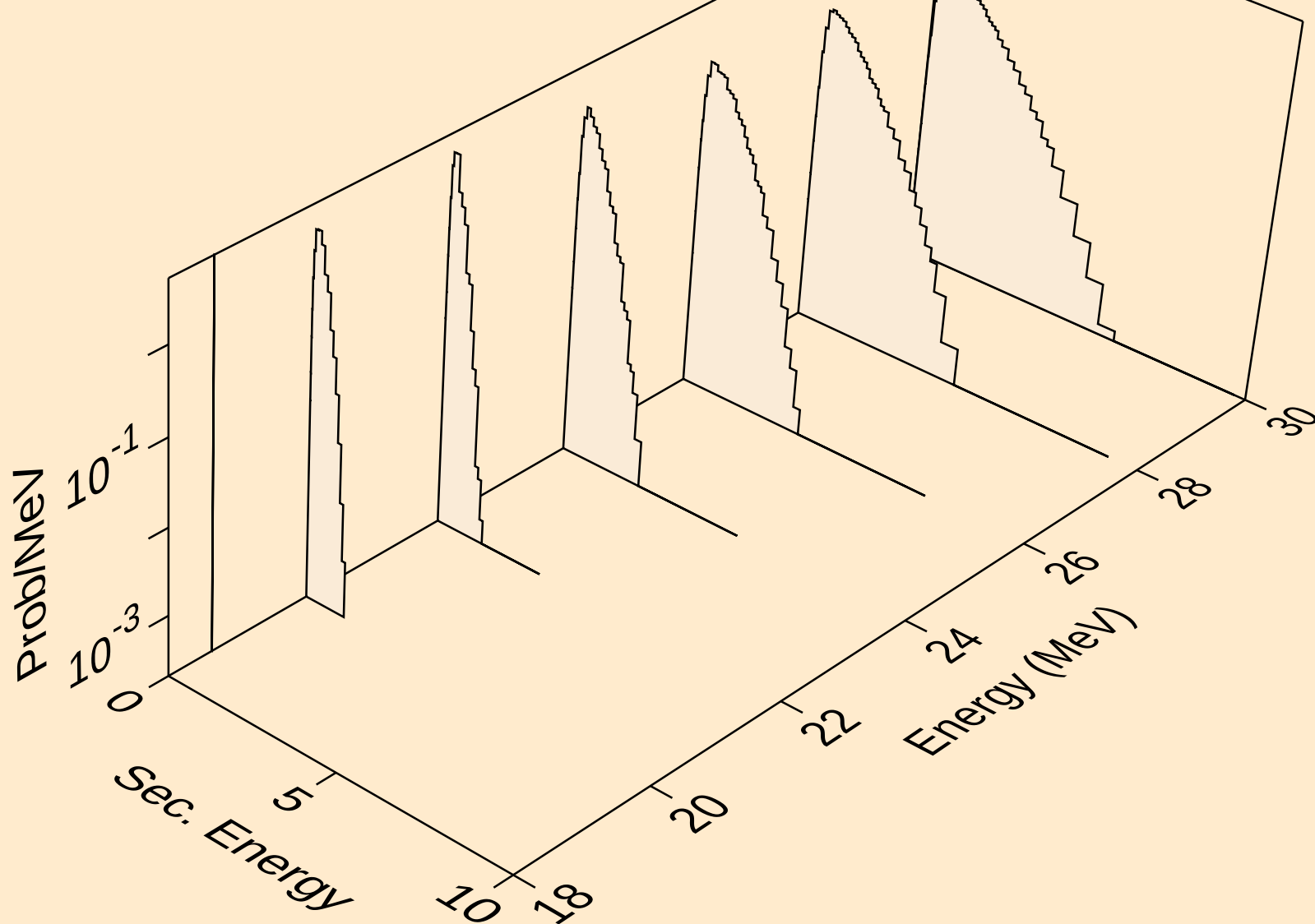
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neutrons from (p,n\*)t



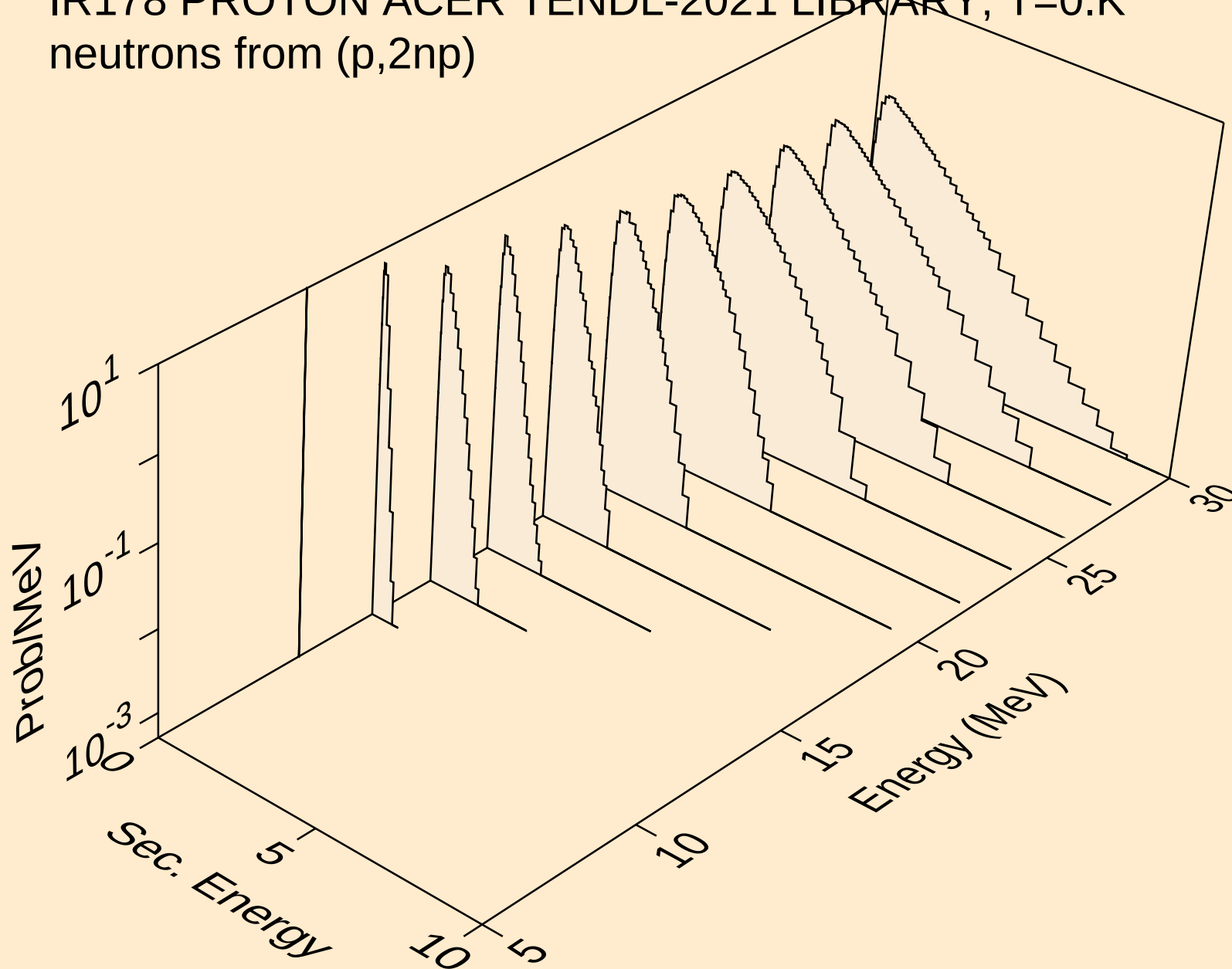
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neutrons from (p,n\*)he3



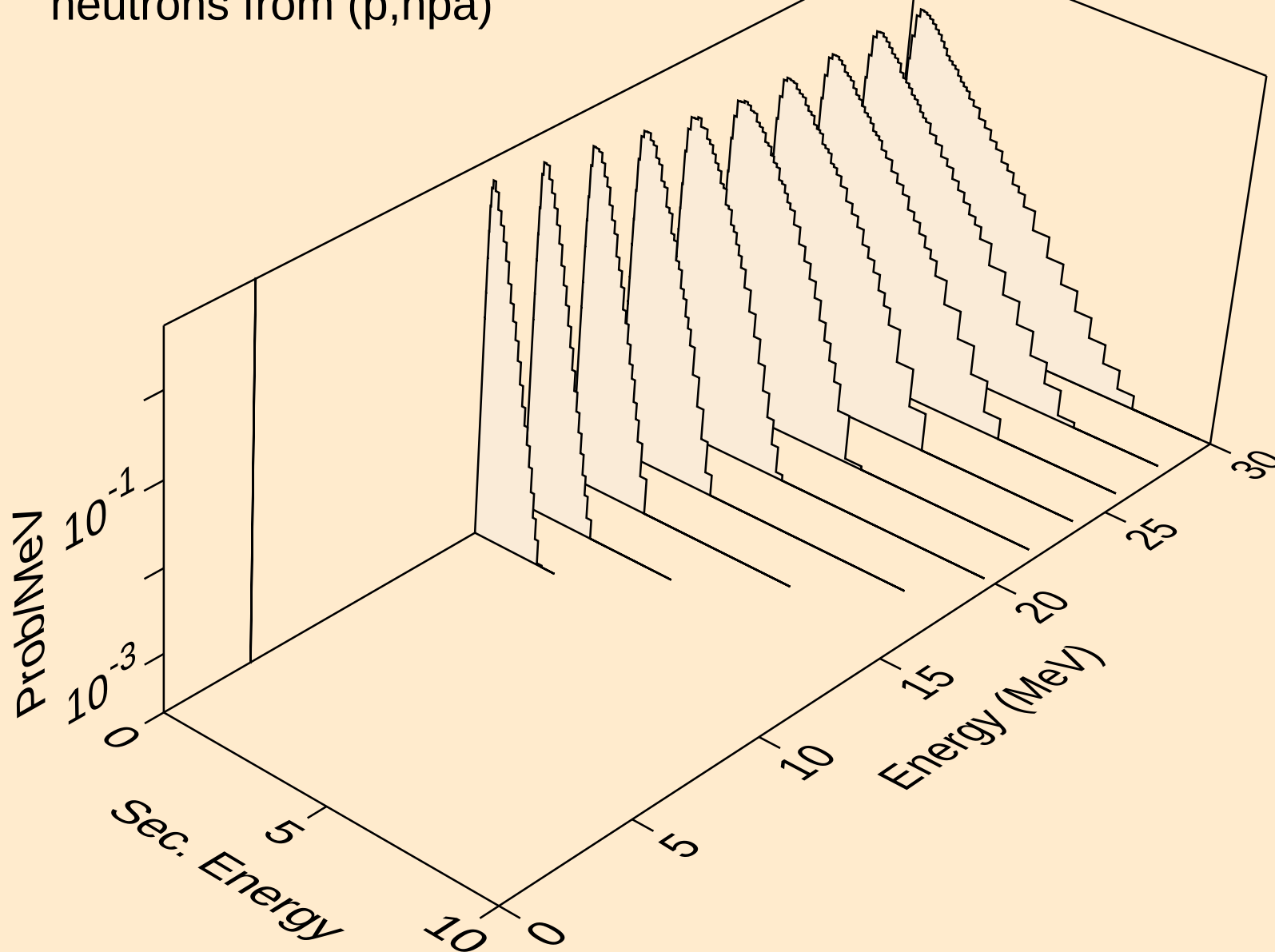
IR178 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
neutrons from (p,2np)



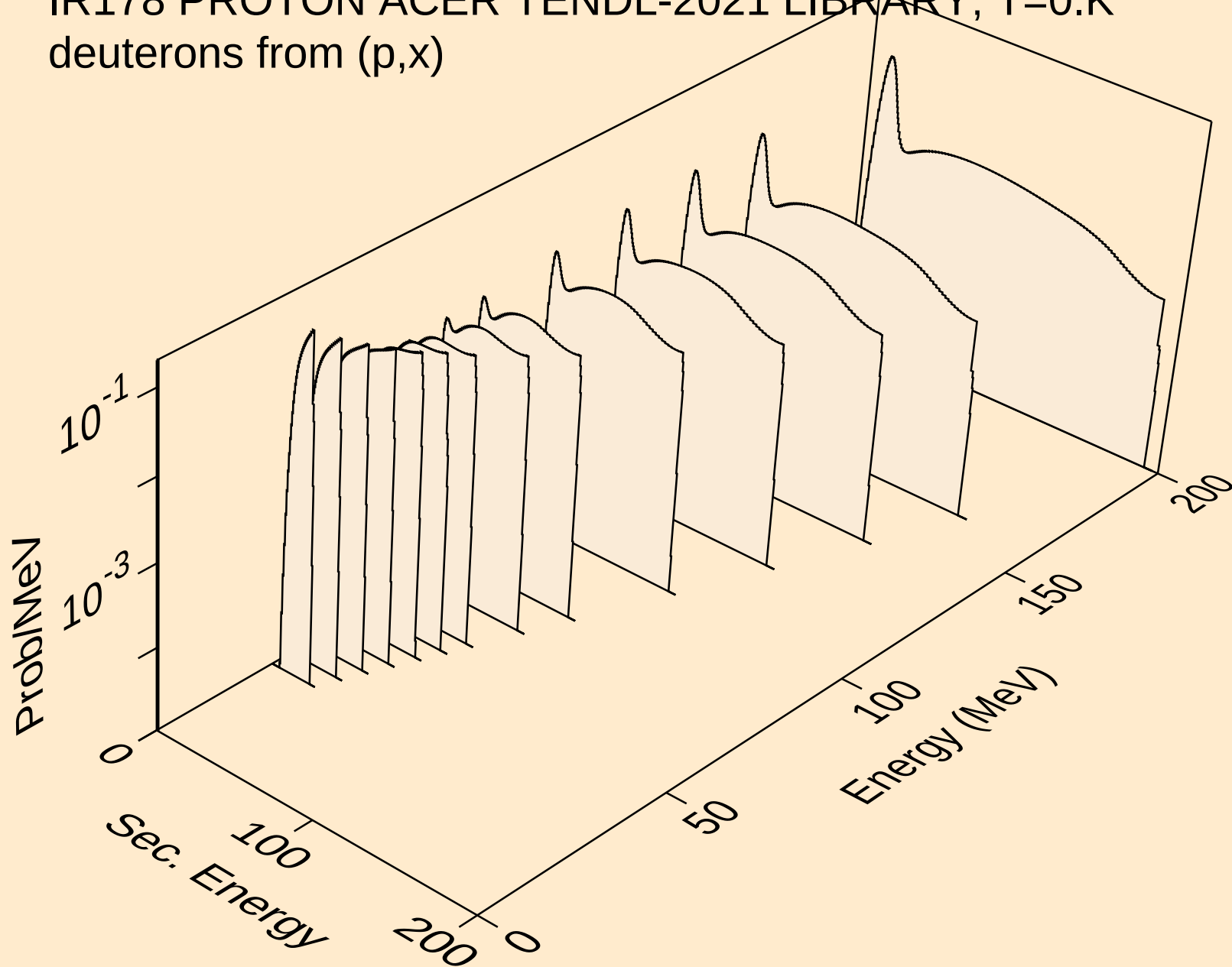
IR178 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
neutrons from (p,2np)



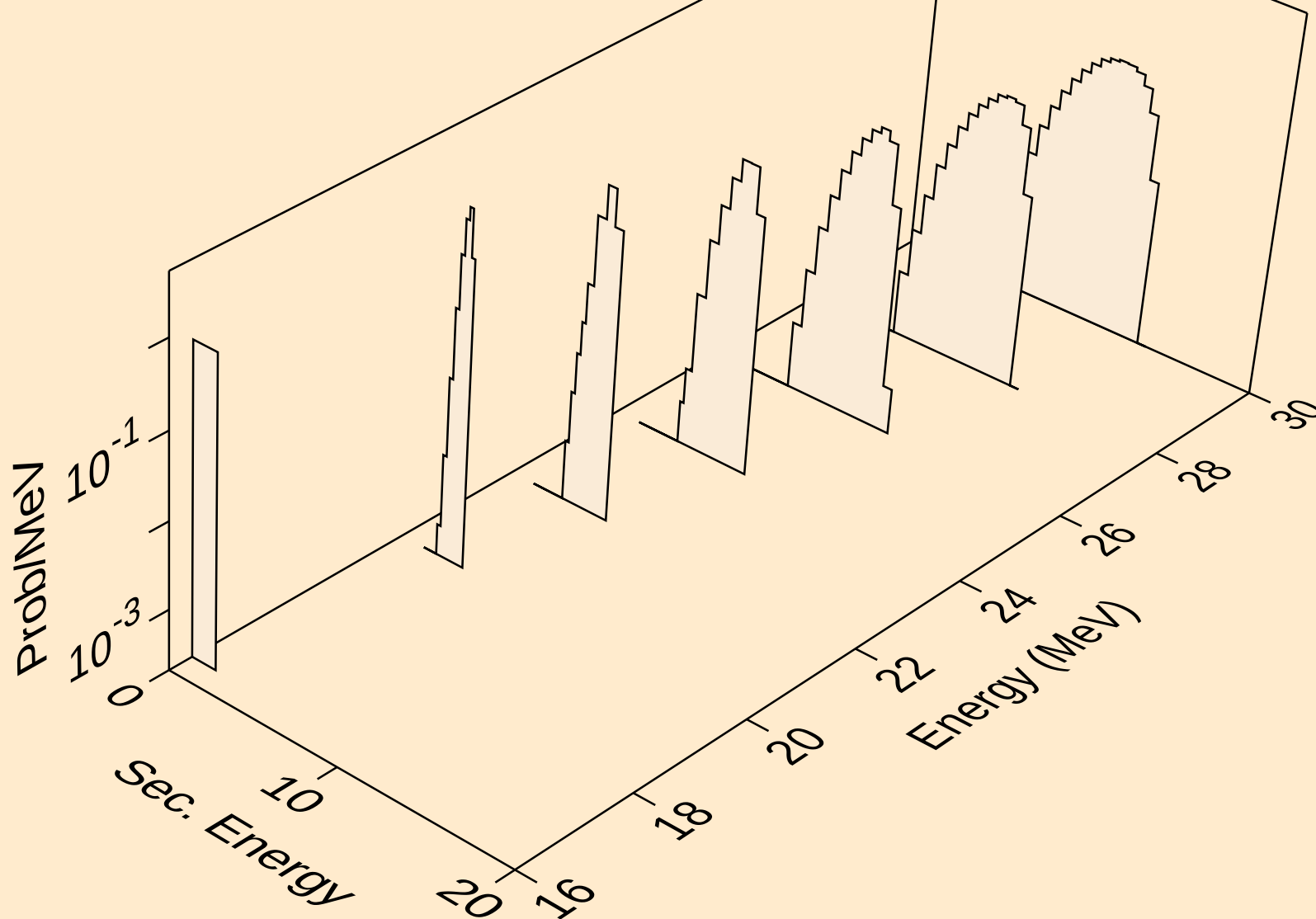
IR178 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
neutrons from (p,npa)



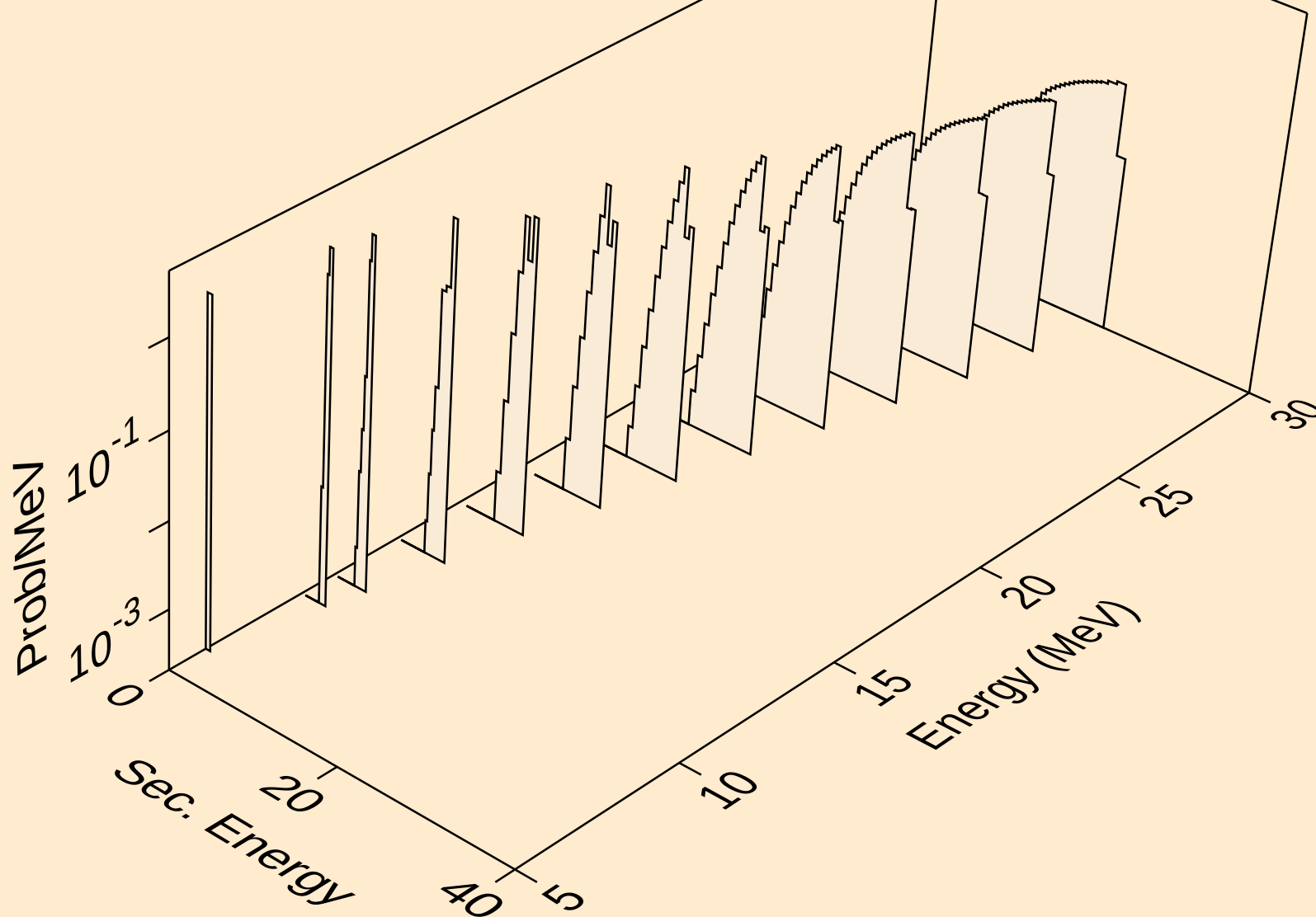
IR178 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
deuterons from (p,x)



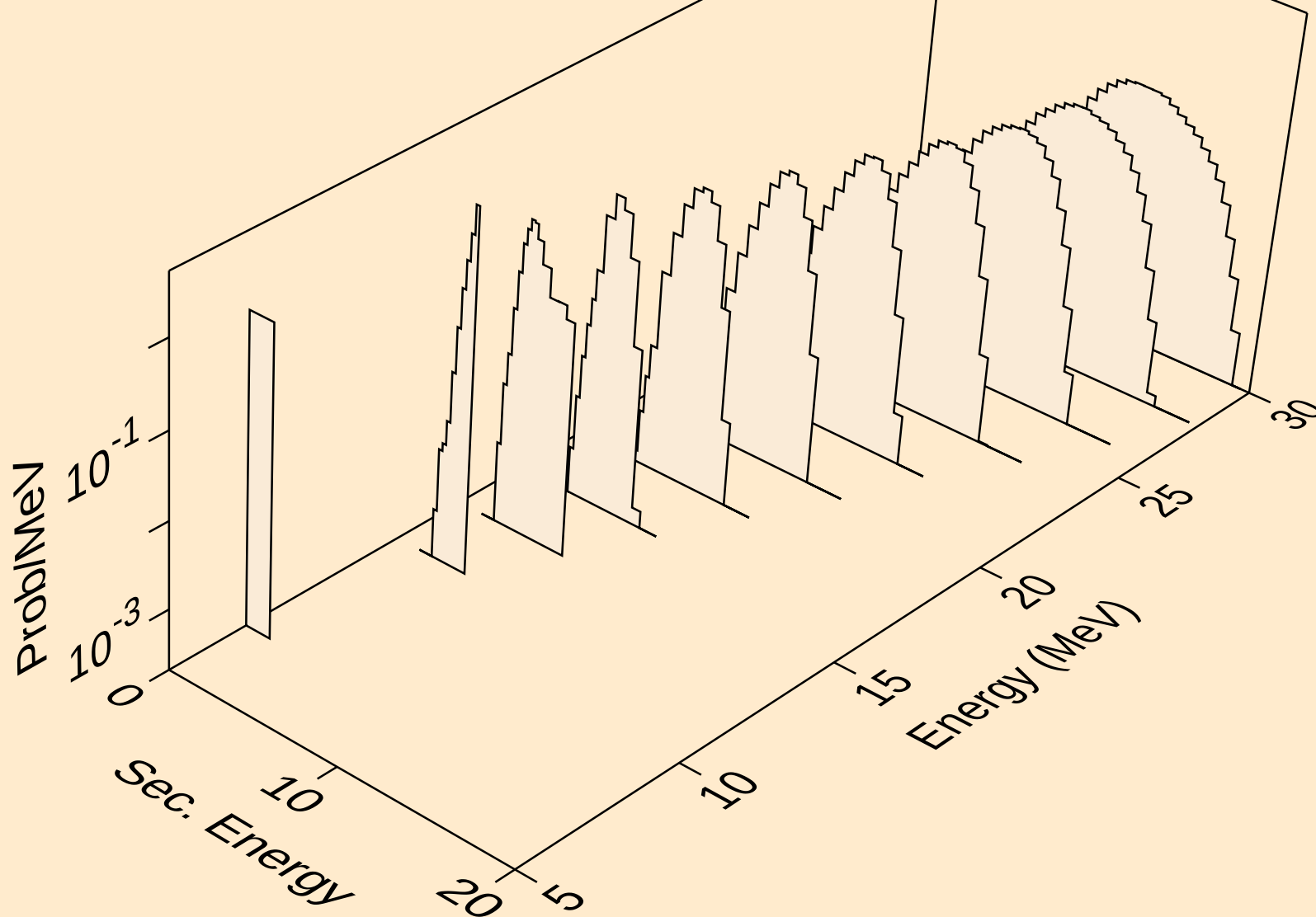
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deuterons from (p,n\*)d



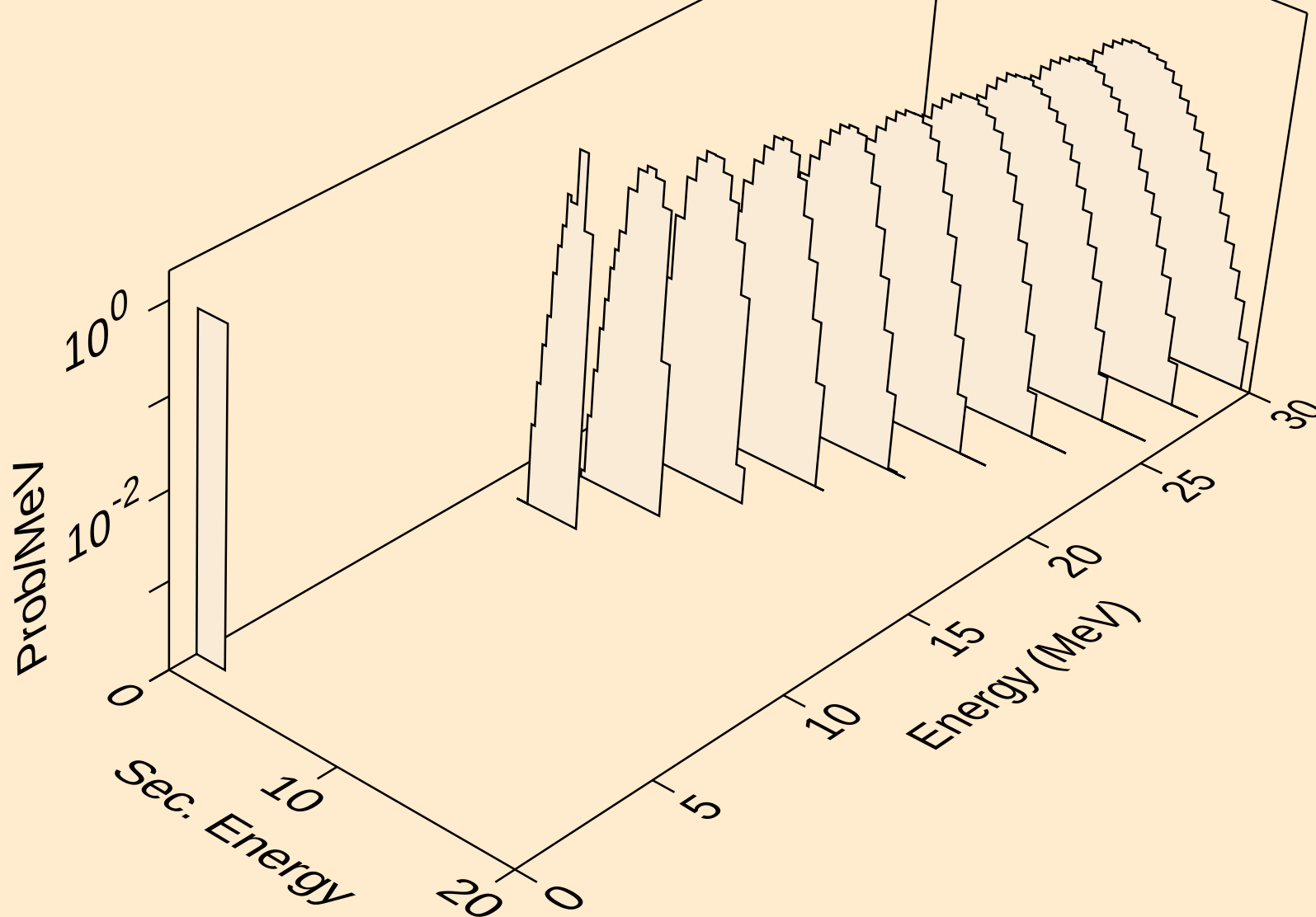
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deuterons from (p,d)



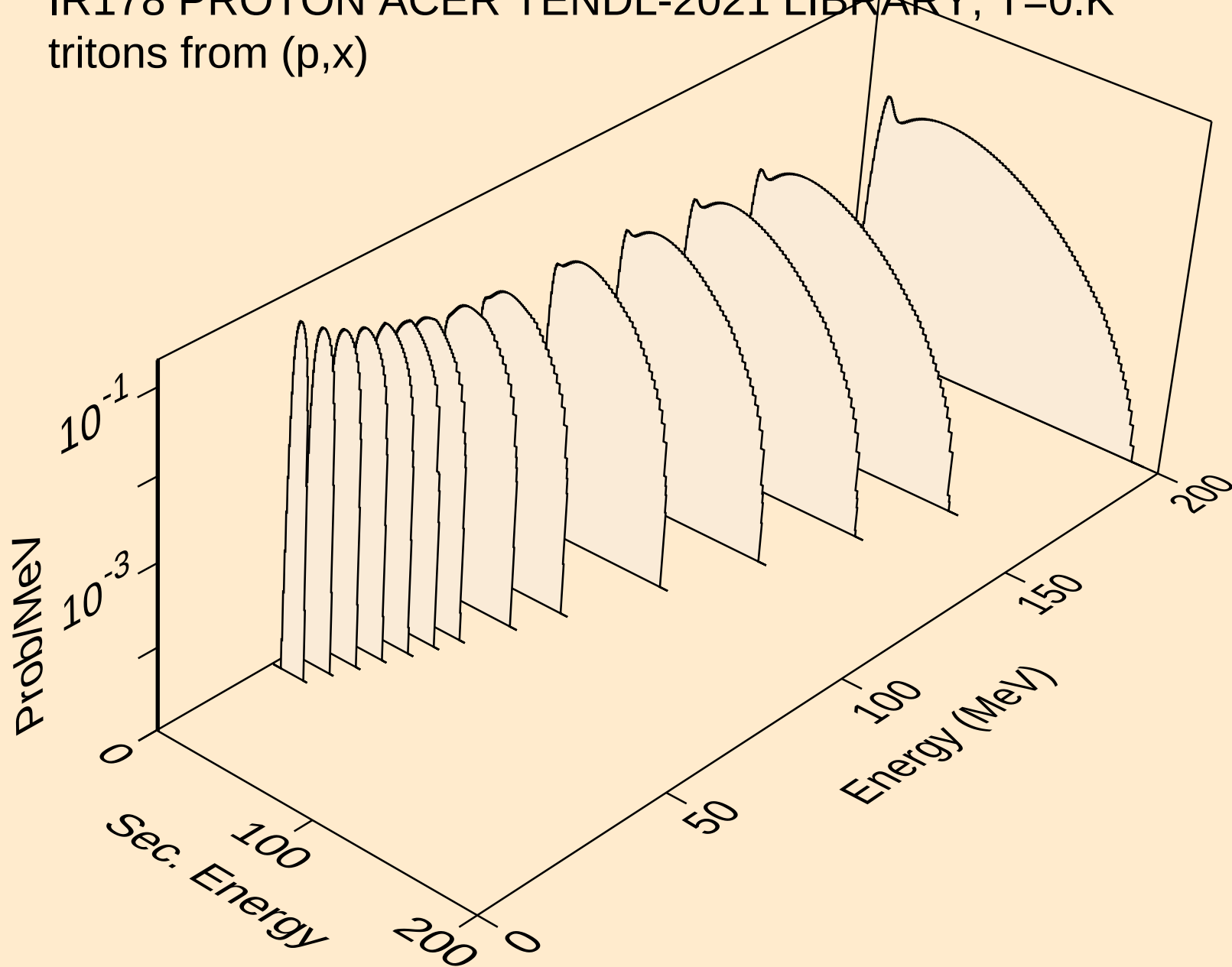
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deuterons from (p,pd)



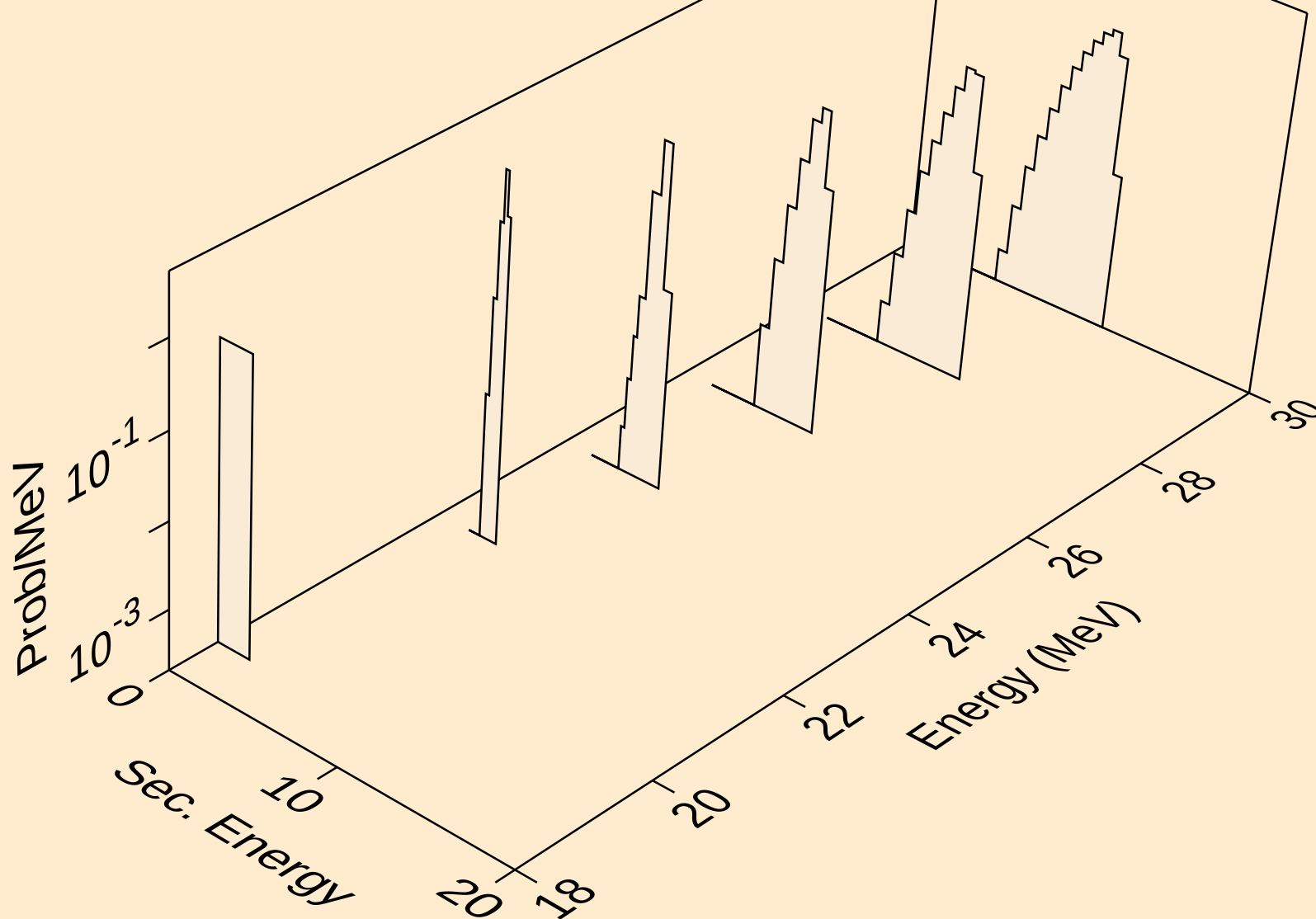
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deuterons from (p,da)



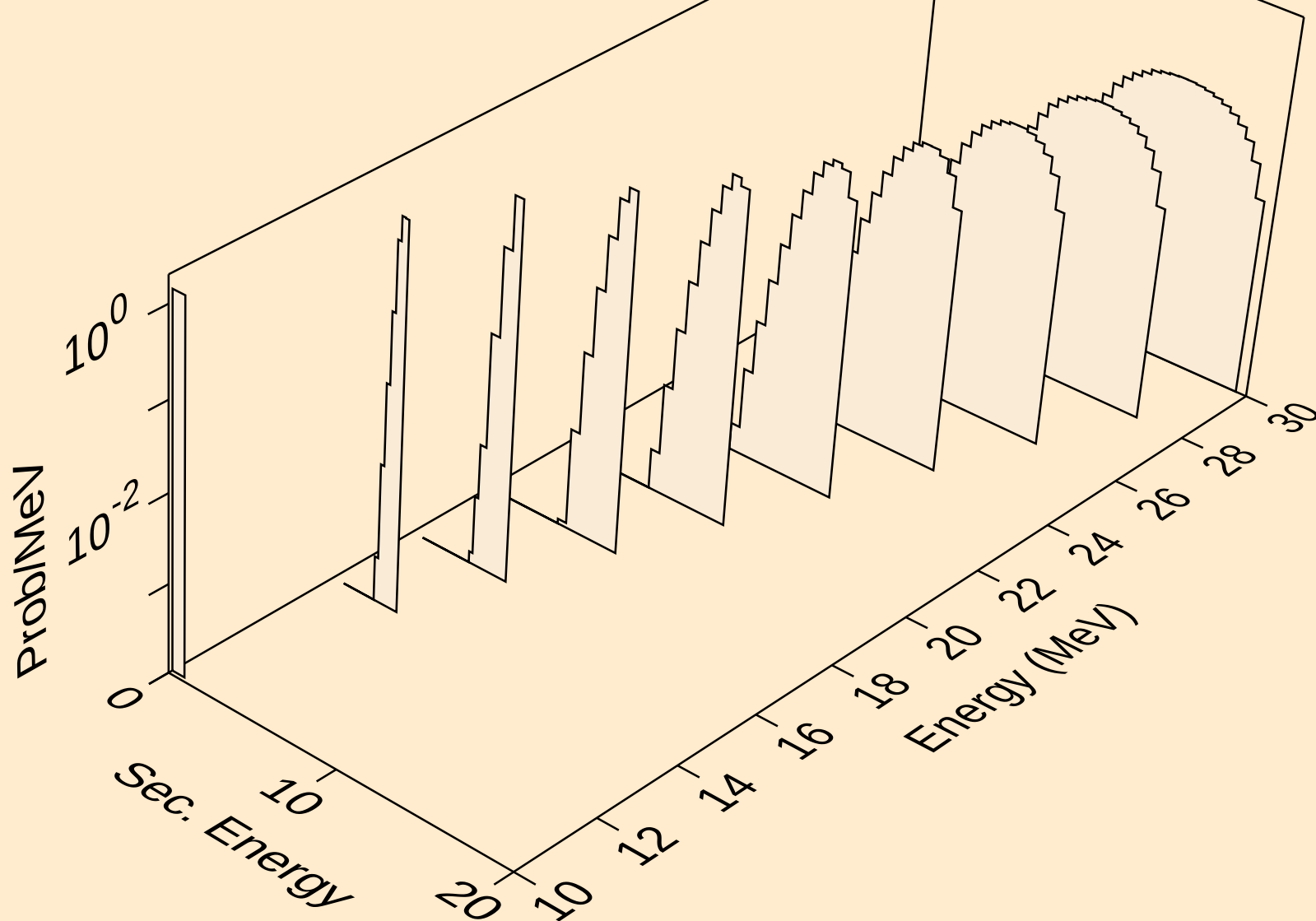
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tritons from (p,x)



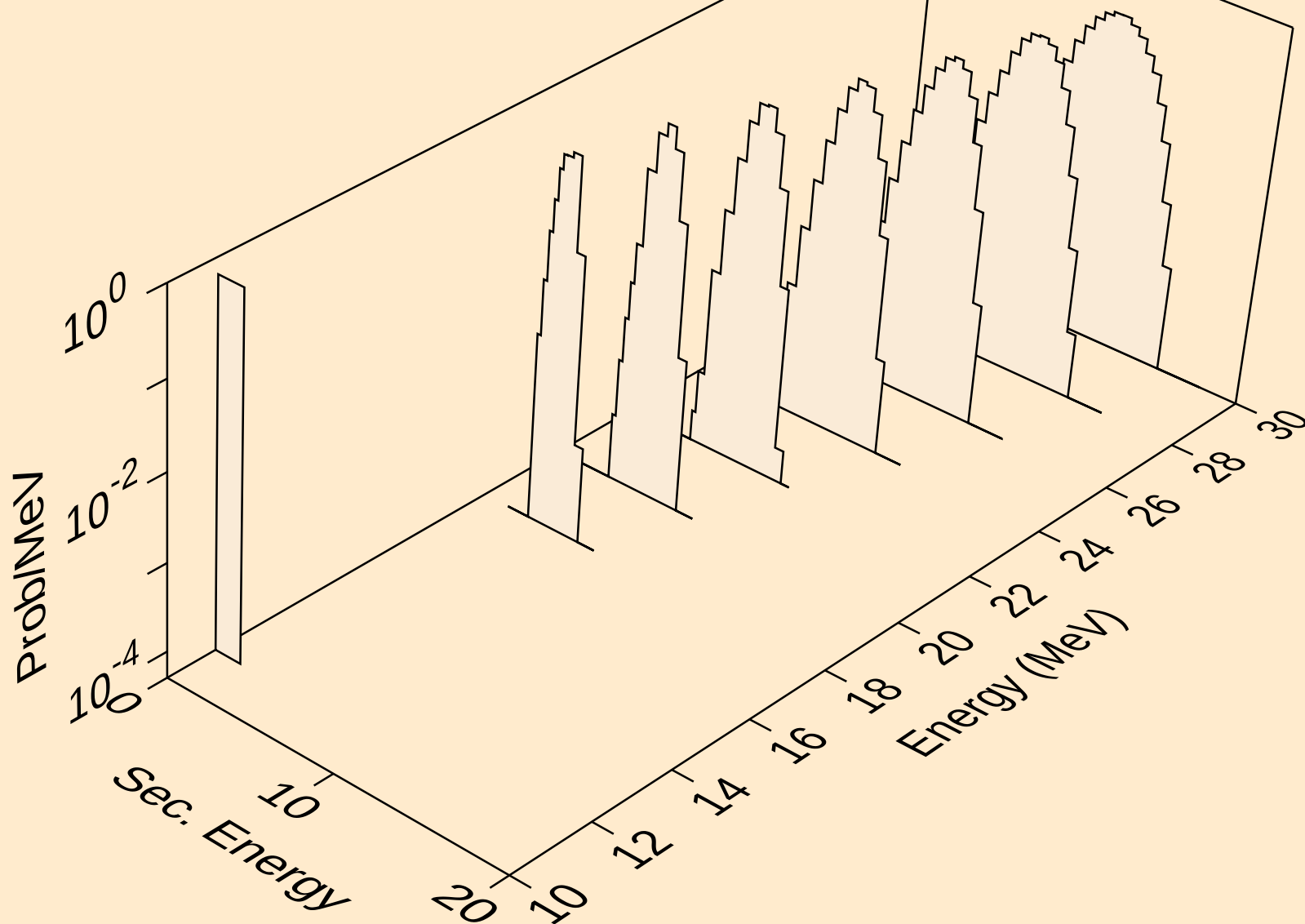
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tritons from (p,n\*)t



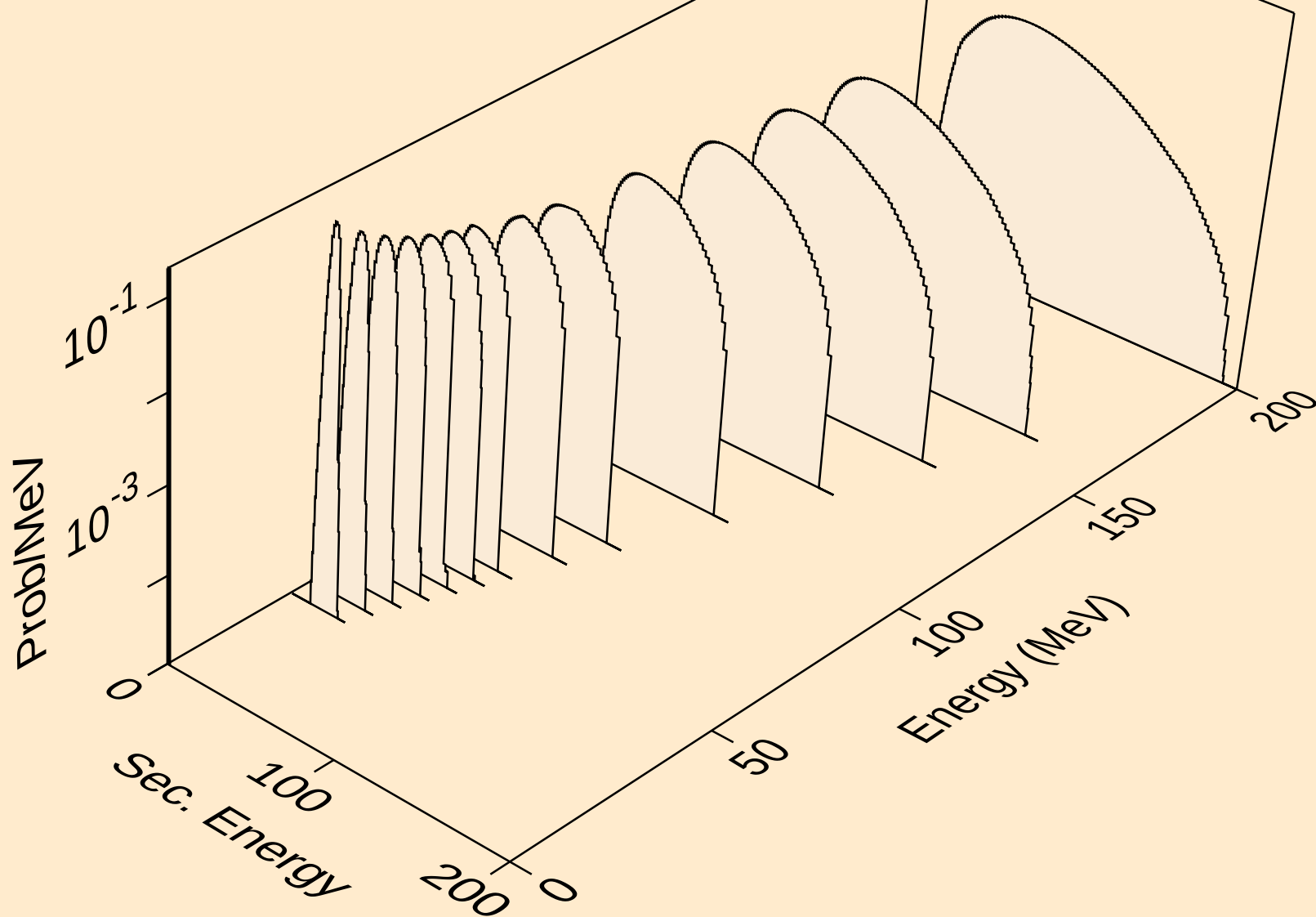
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tritons from (p,t)



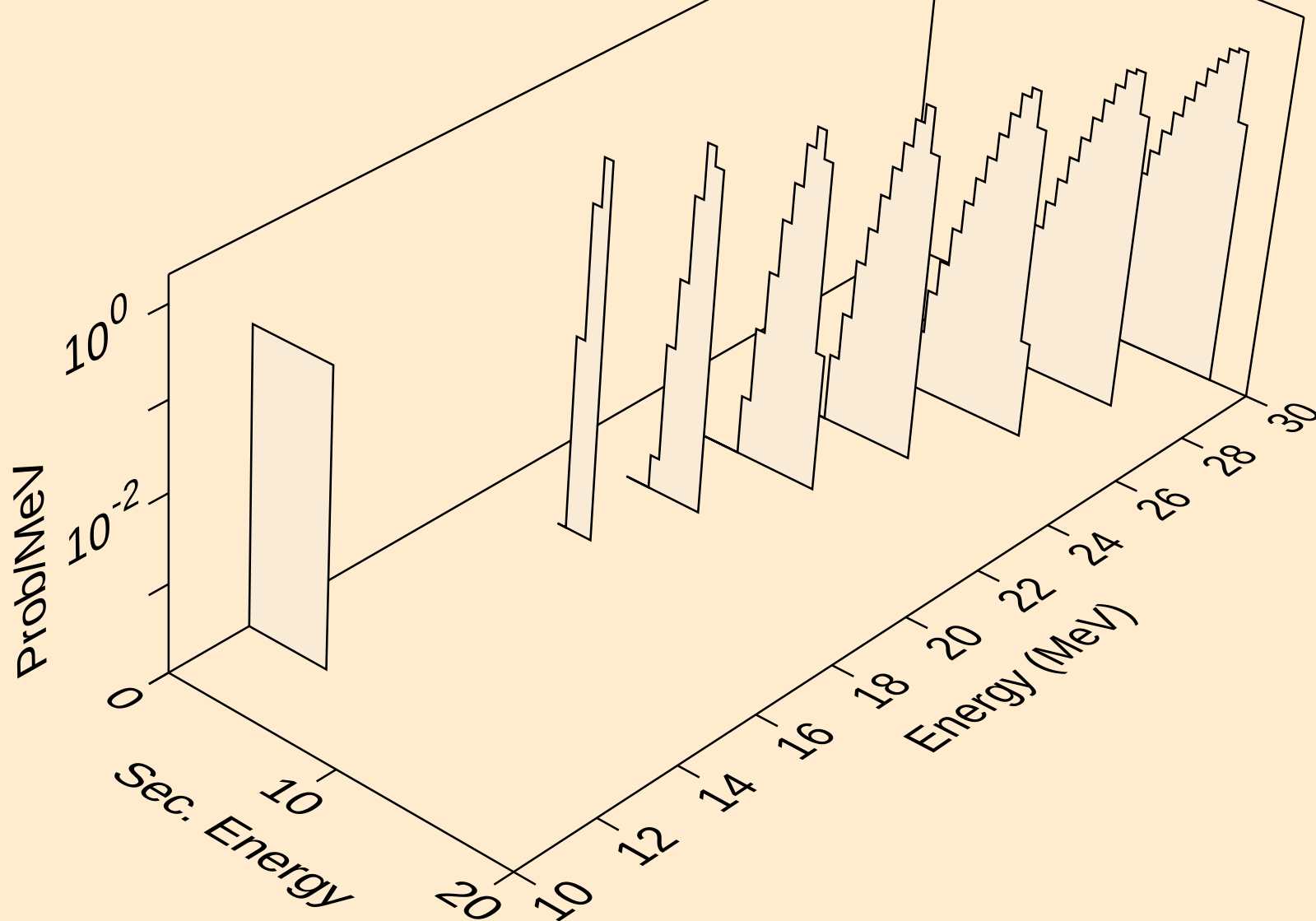
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tritons from (p,pt)



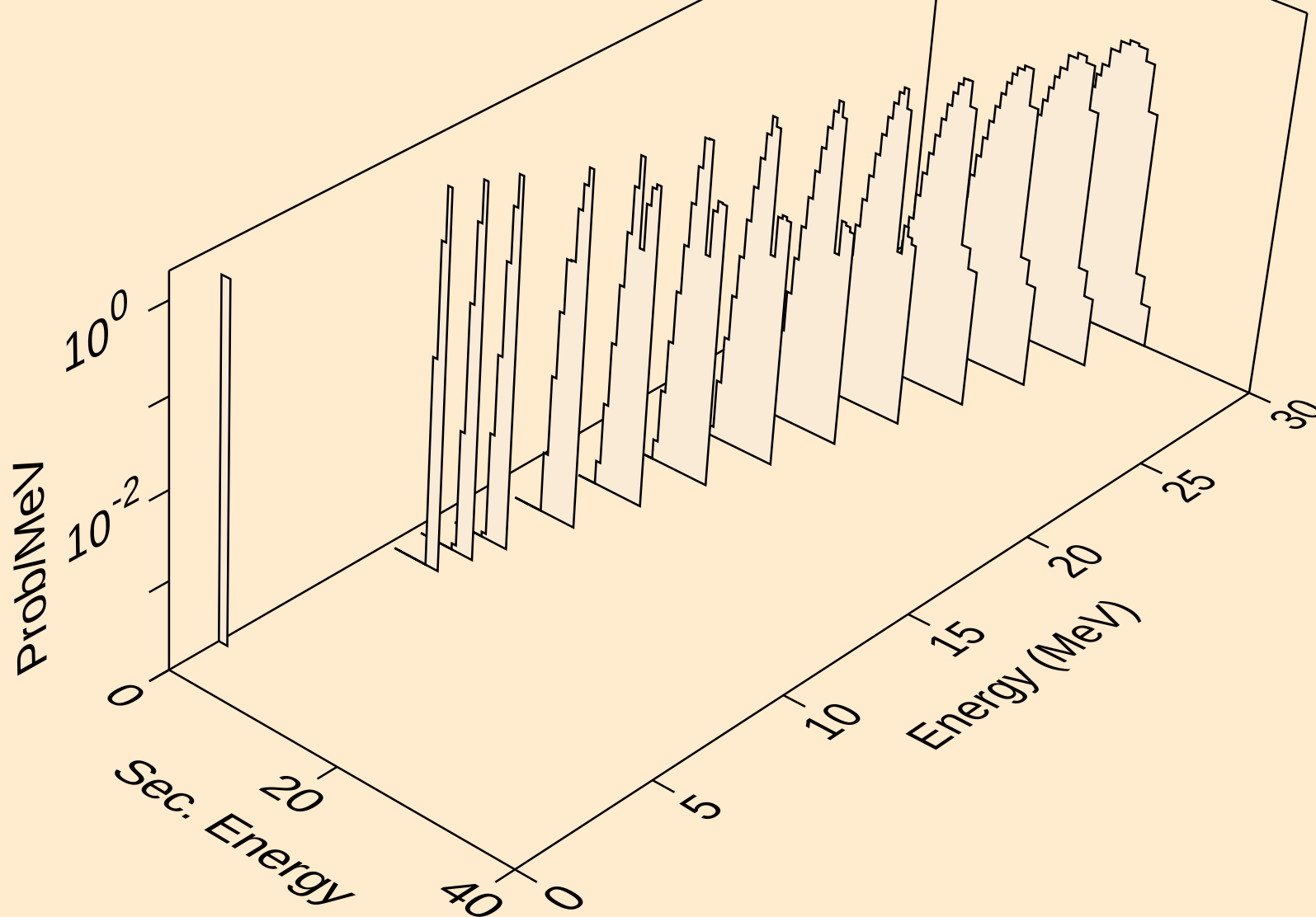
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he3s from (p,x)



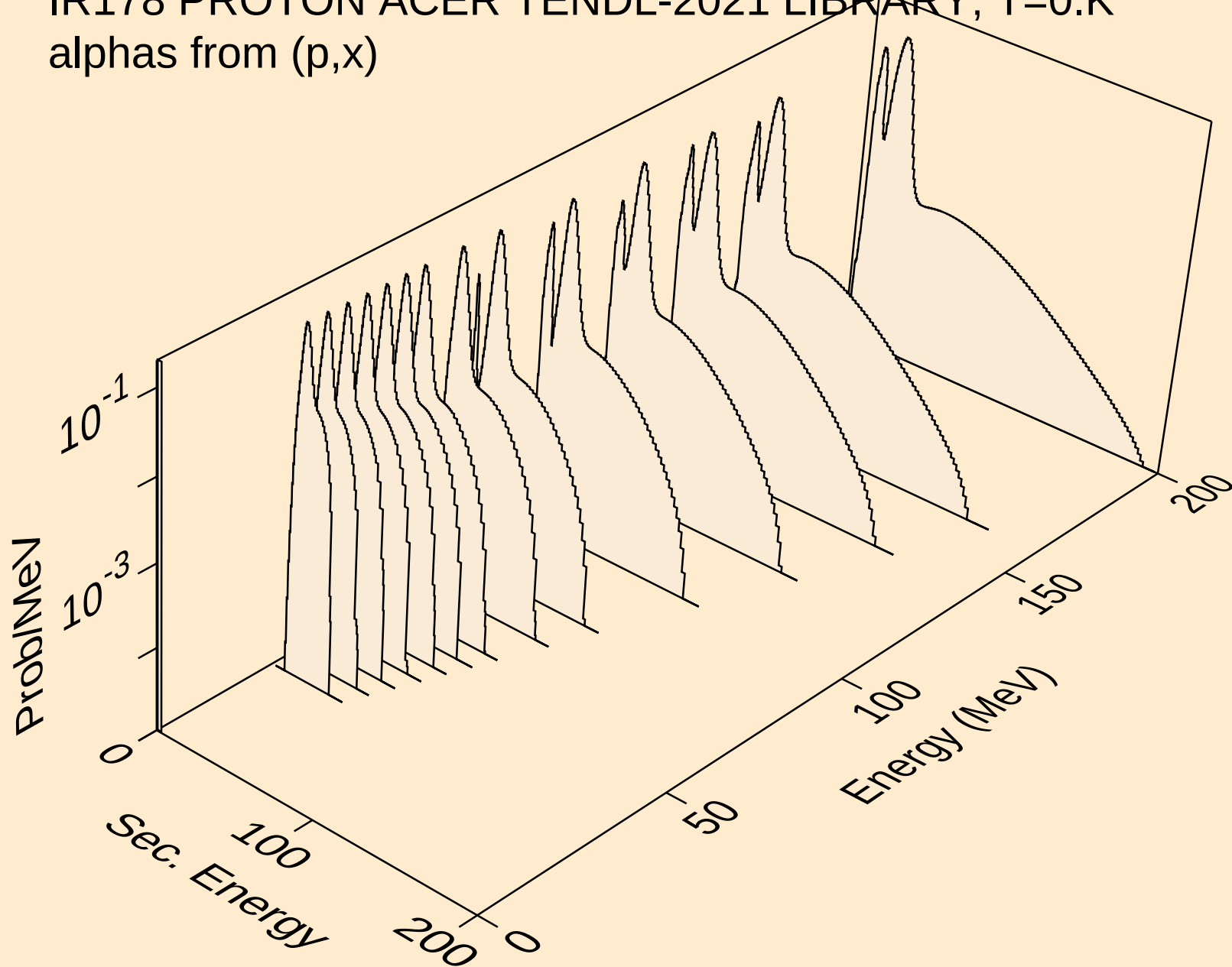
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he3s from (p,n\*)he3



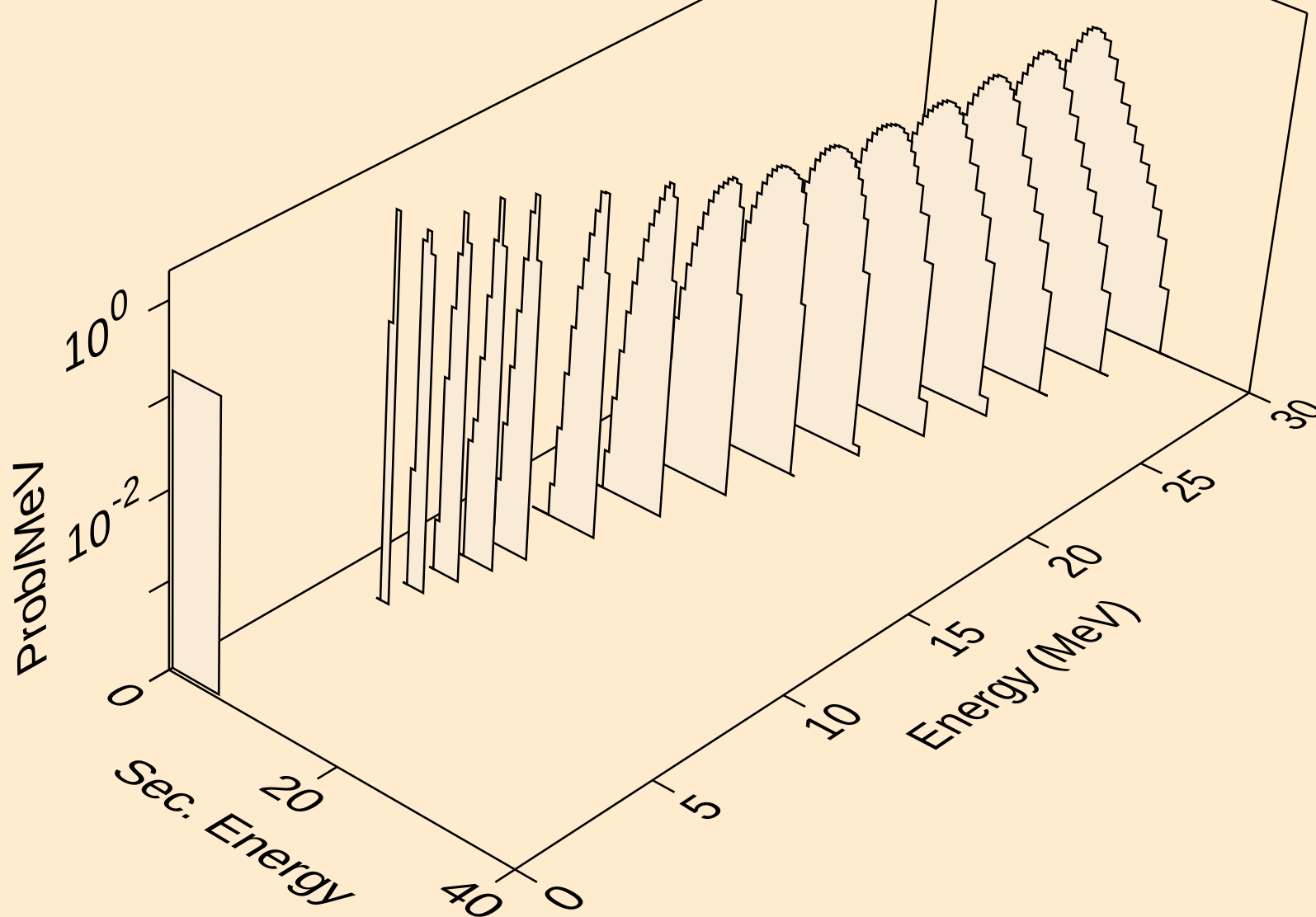
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he3s from (p,he3)



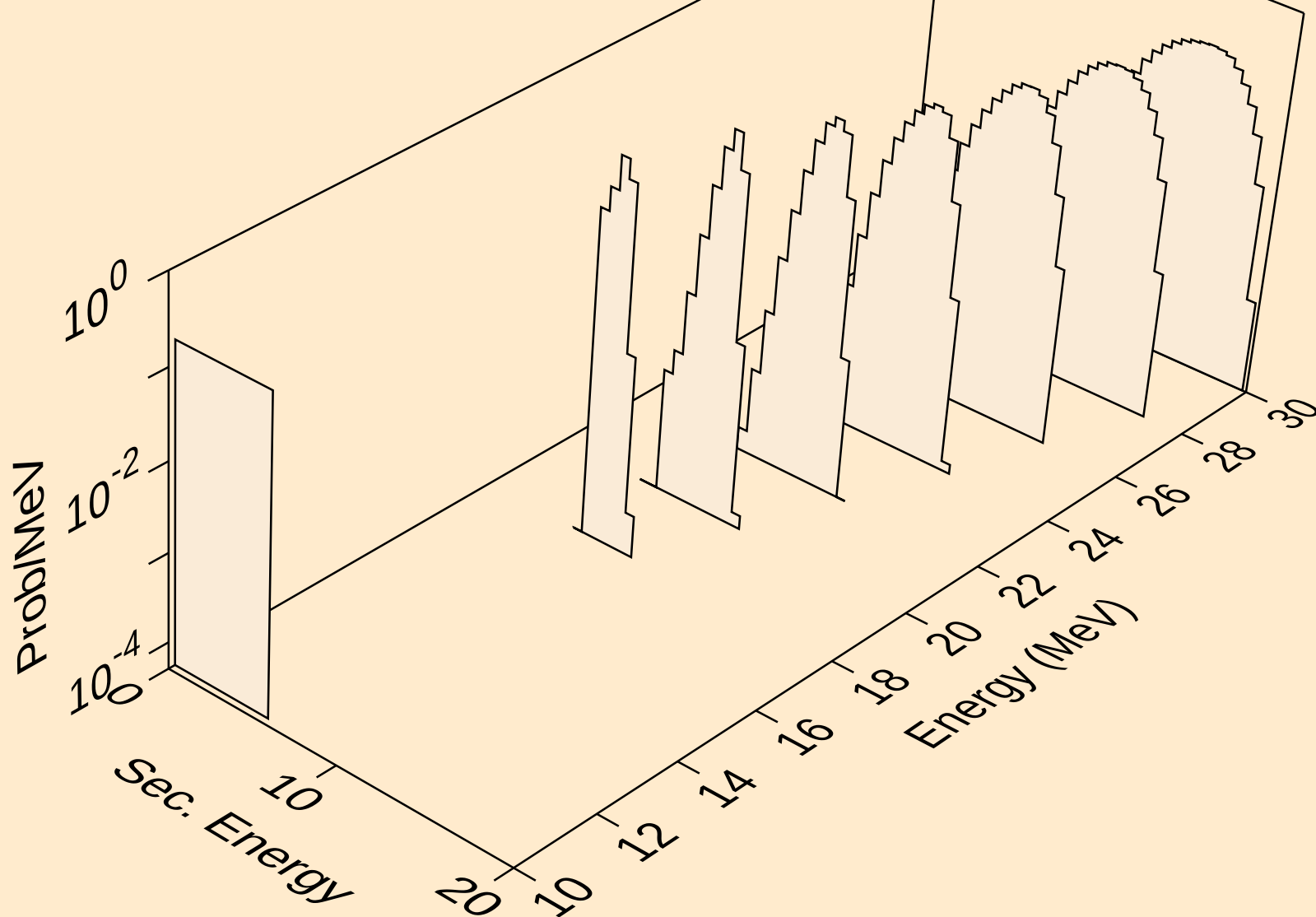
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alphas from (p,x)



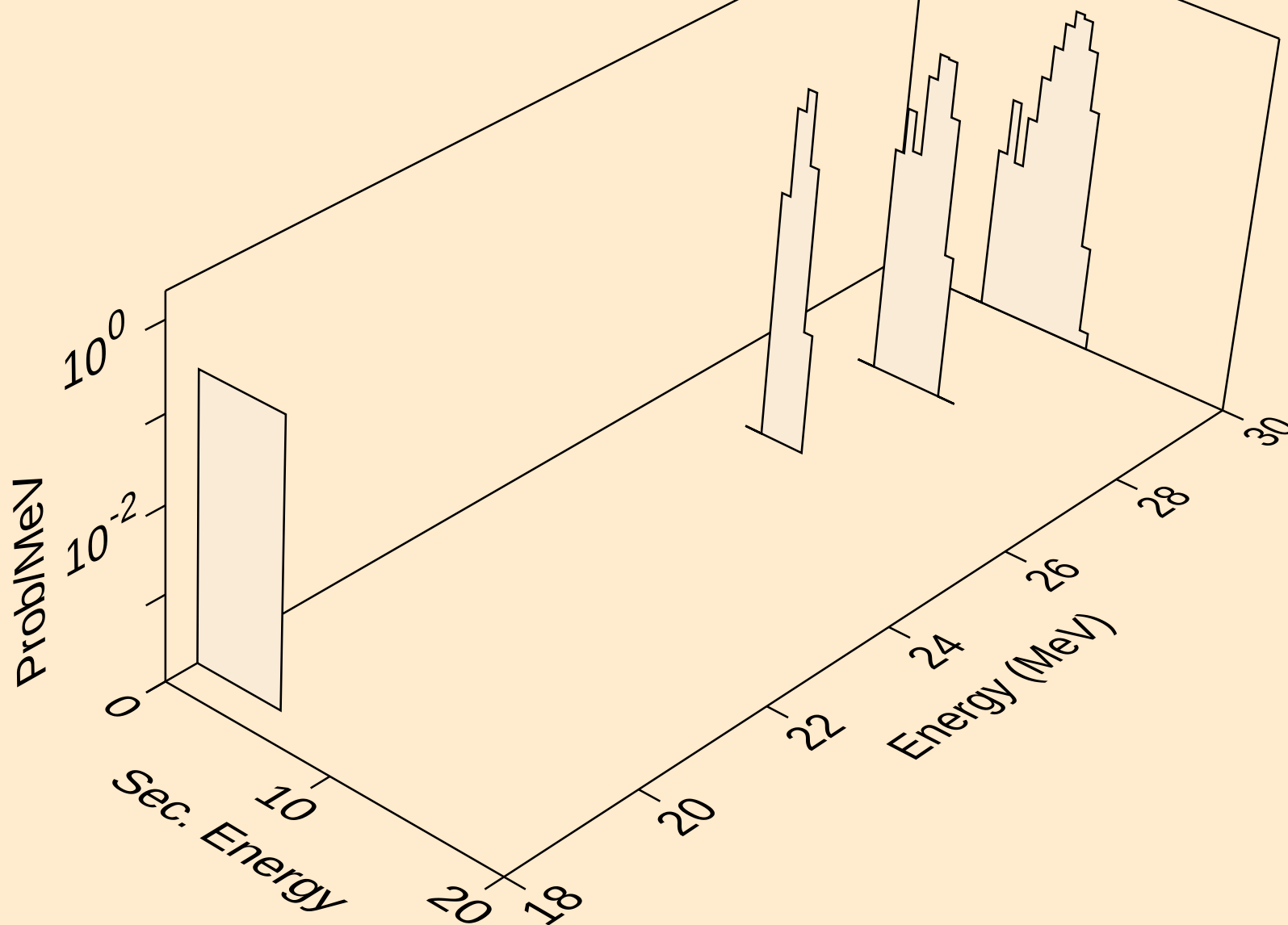
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alphas from (p,n\*)a



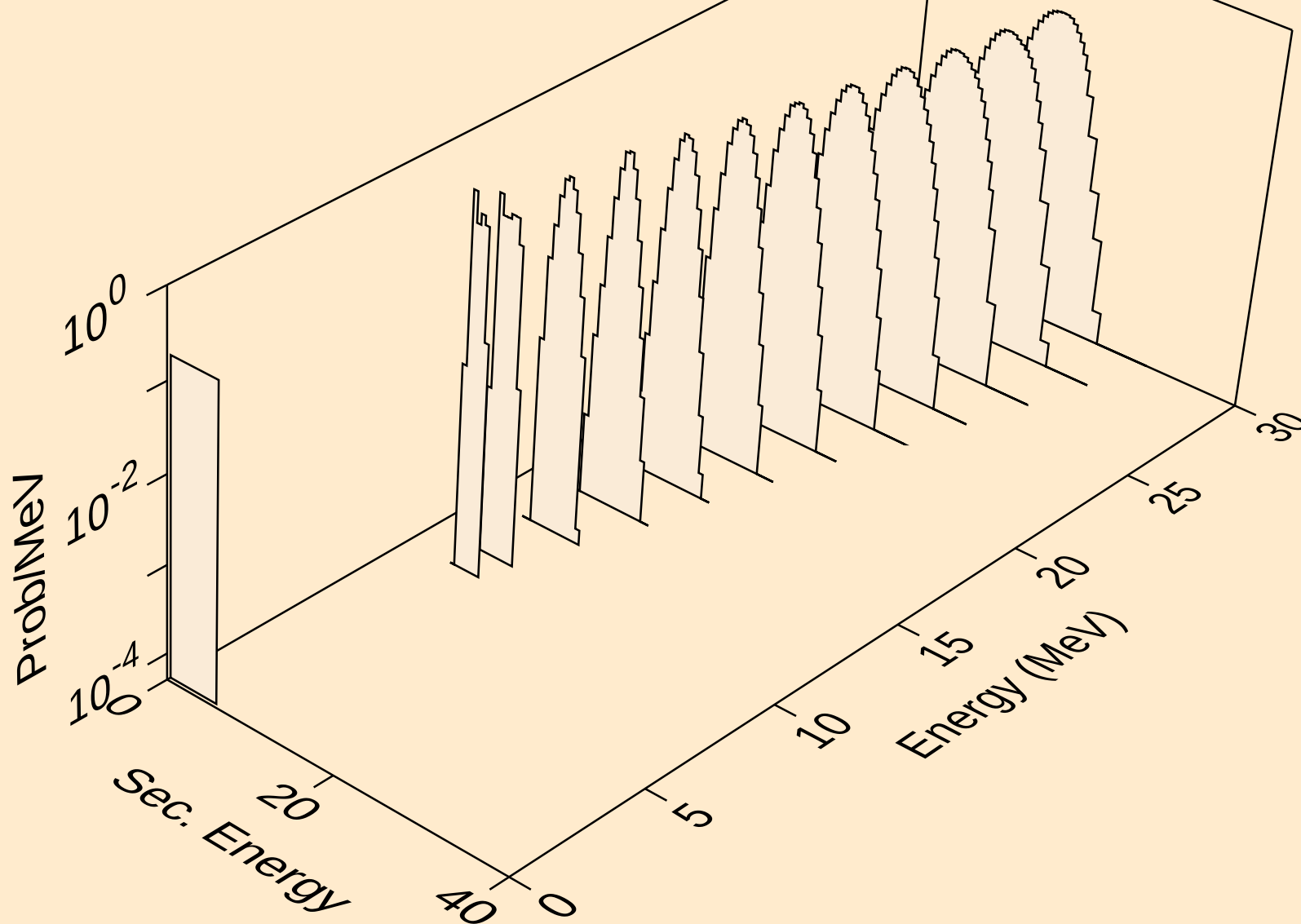
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alphas from (p,2n)a



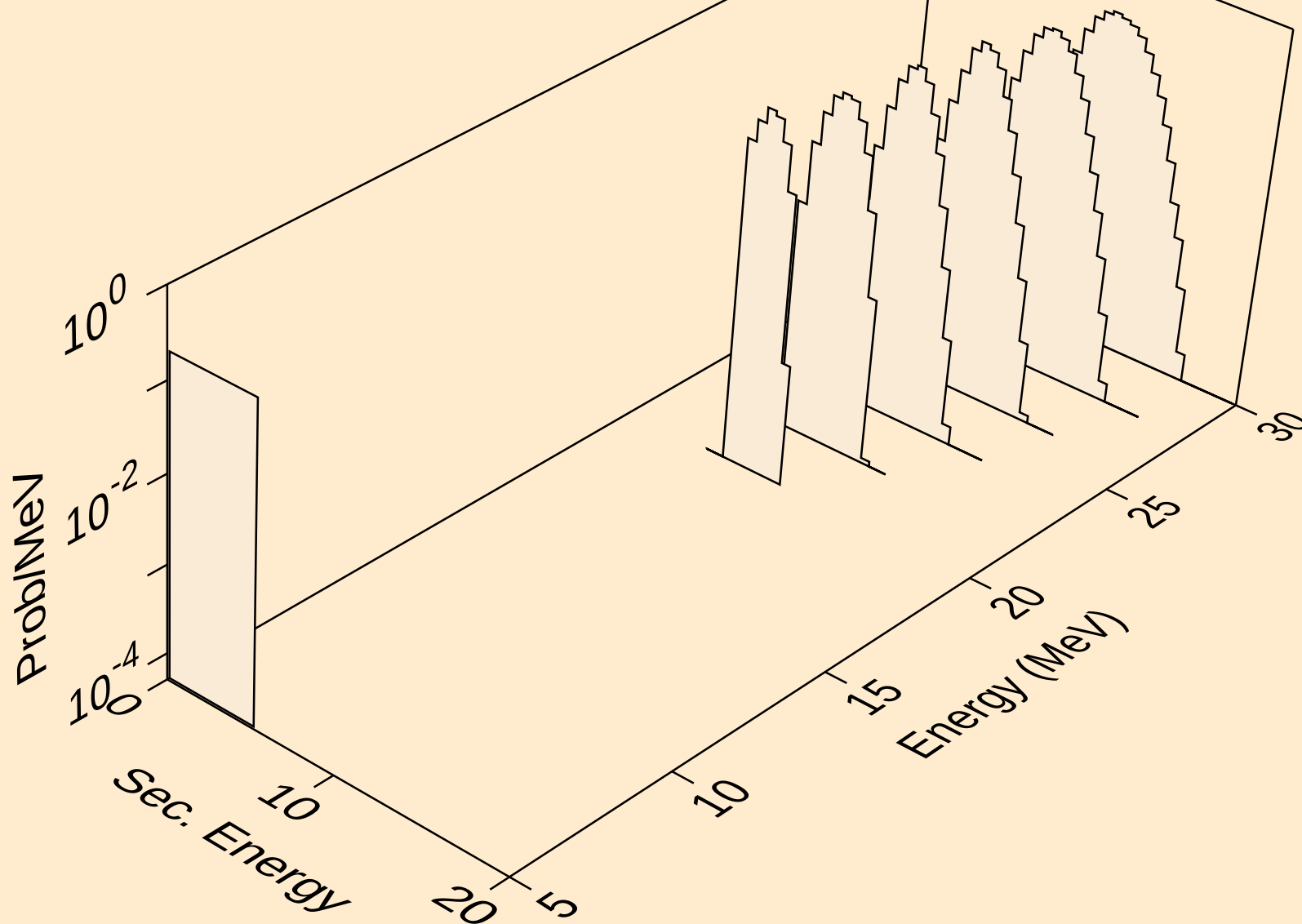
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alphas from (p,3n)a



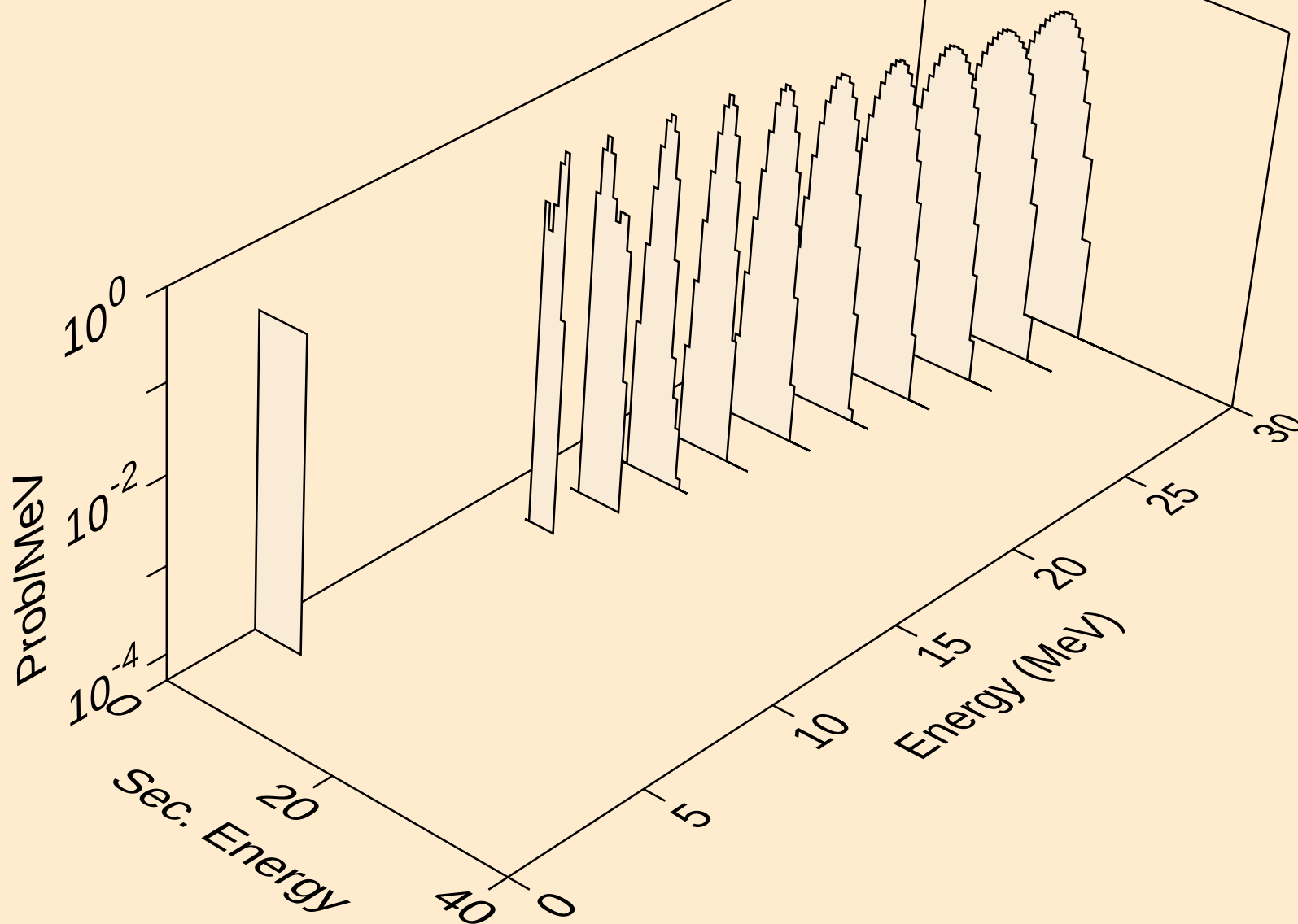
IR178 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
alphas from (p,n\*)2a



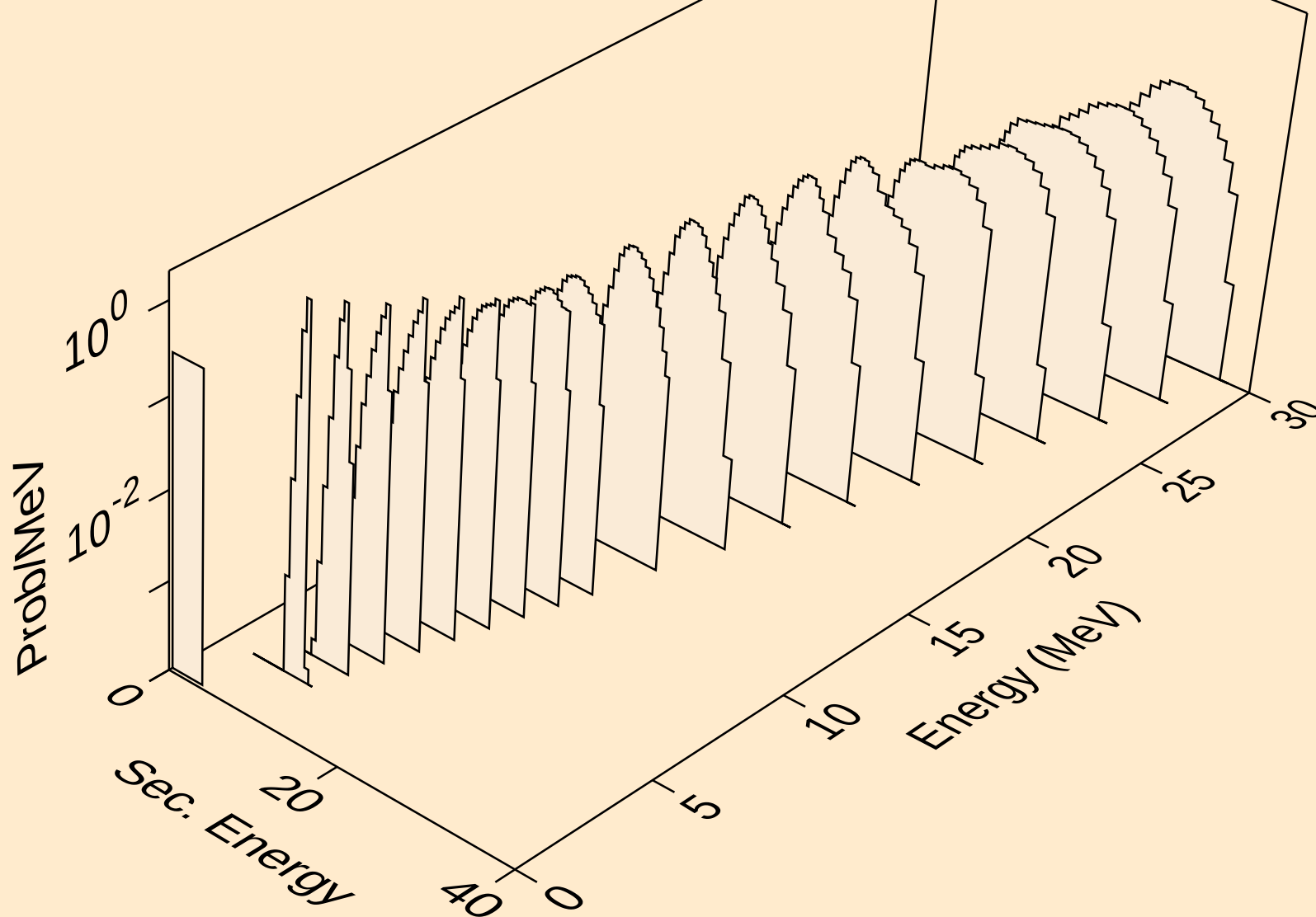
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alphas from (p,2n)2a



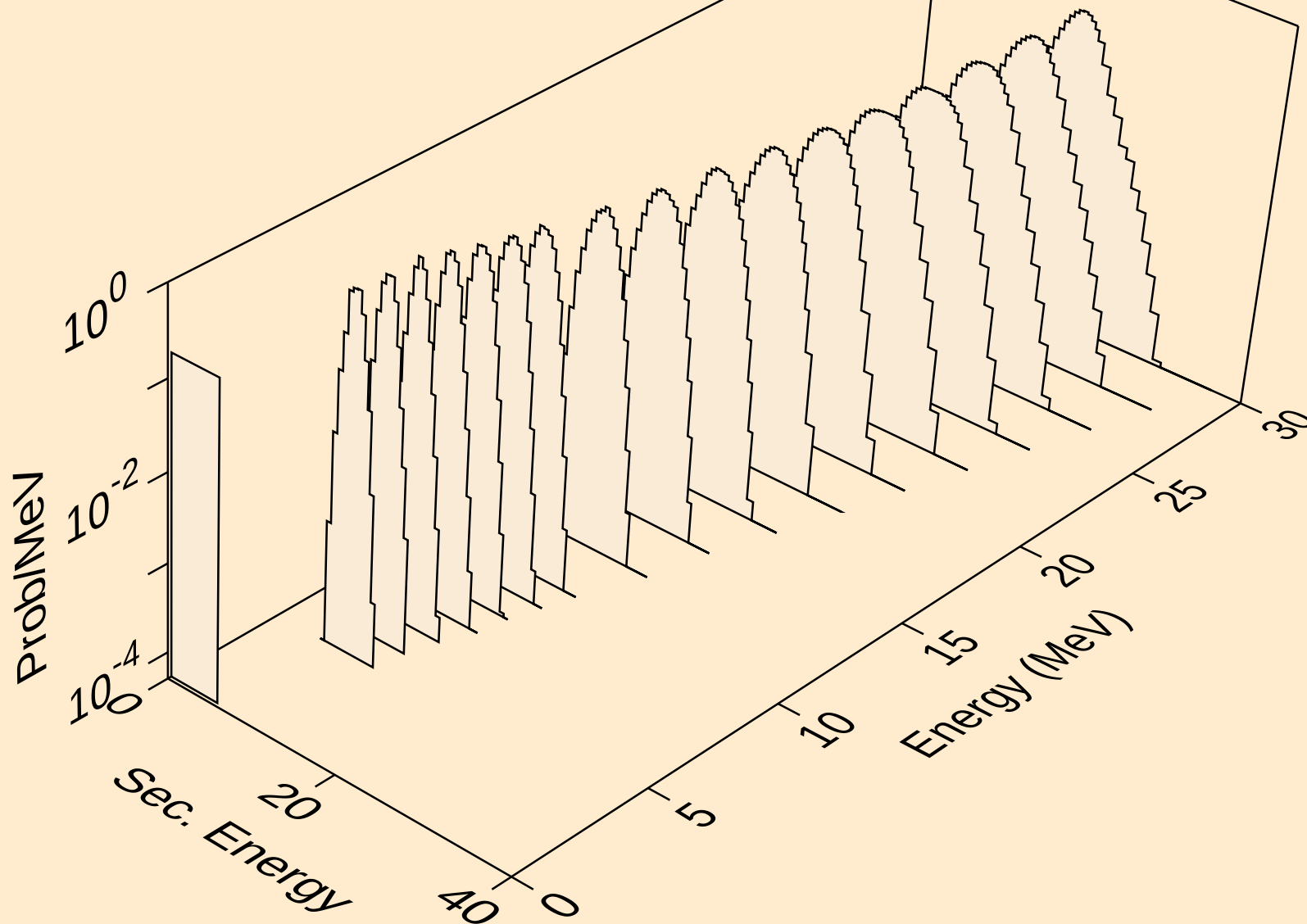
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alphas from (p,npa)



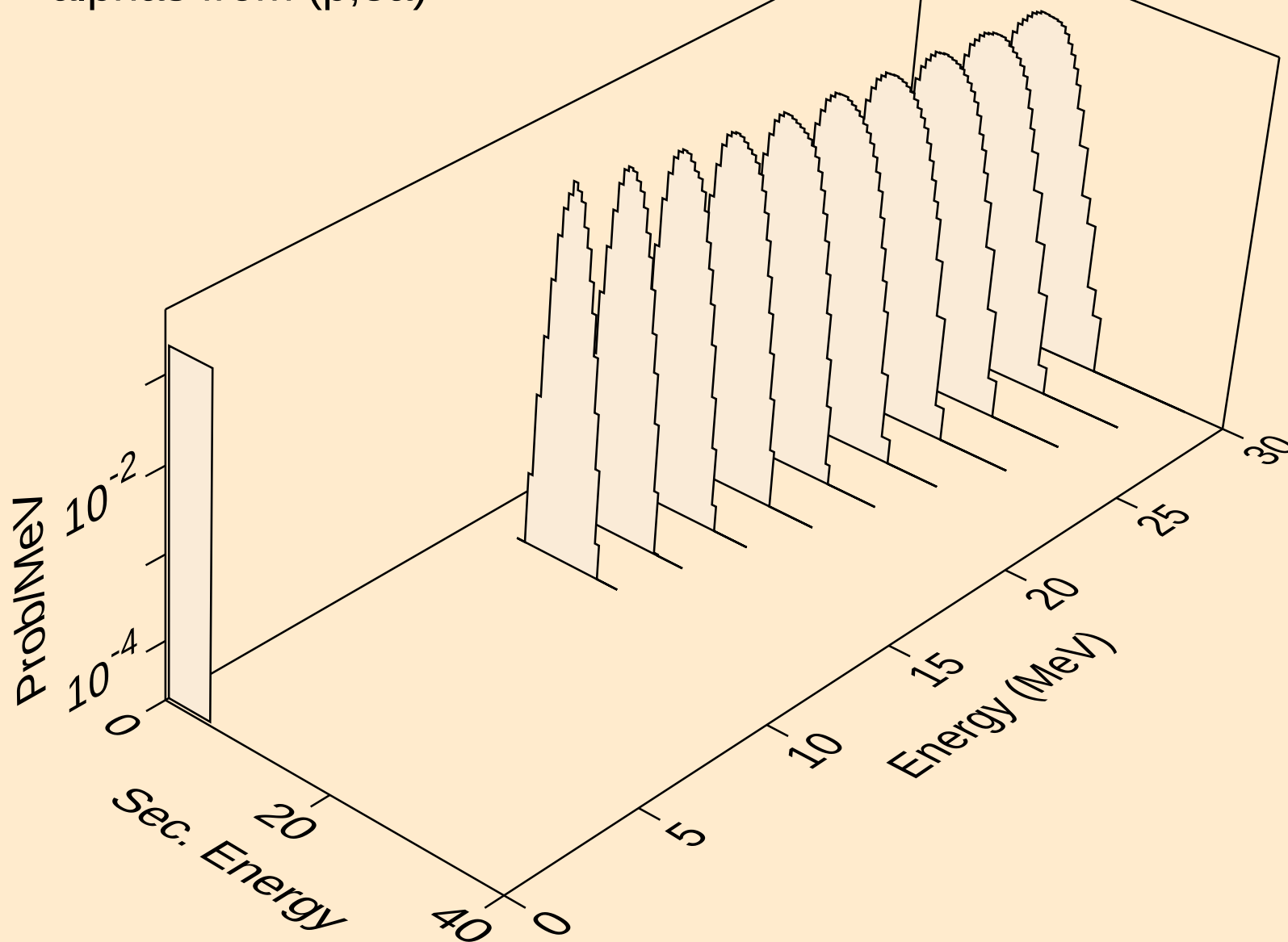
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alphas from (p,a)



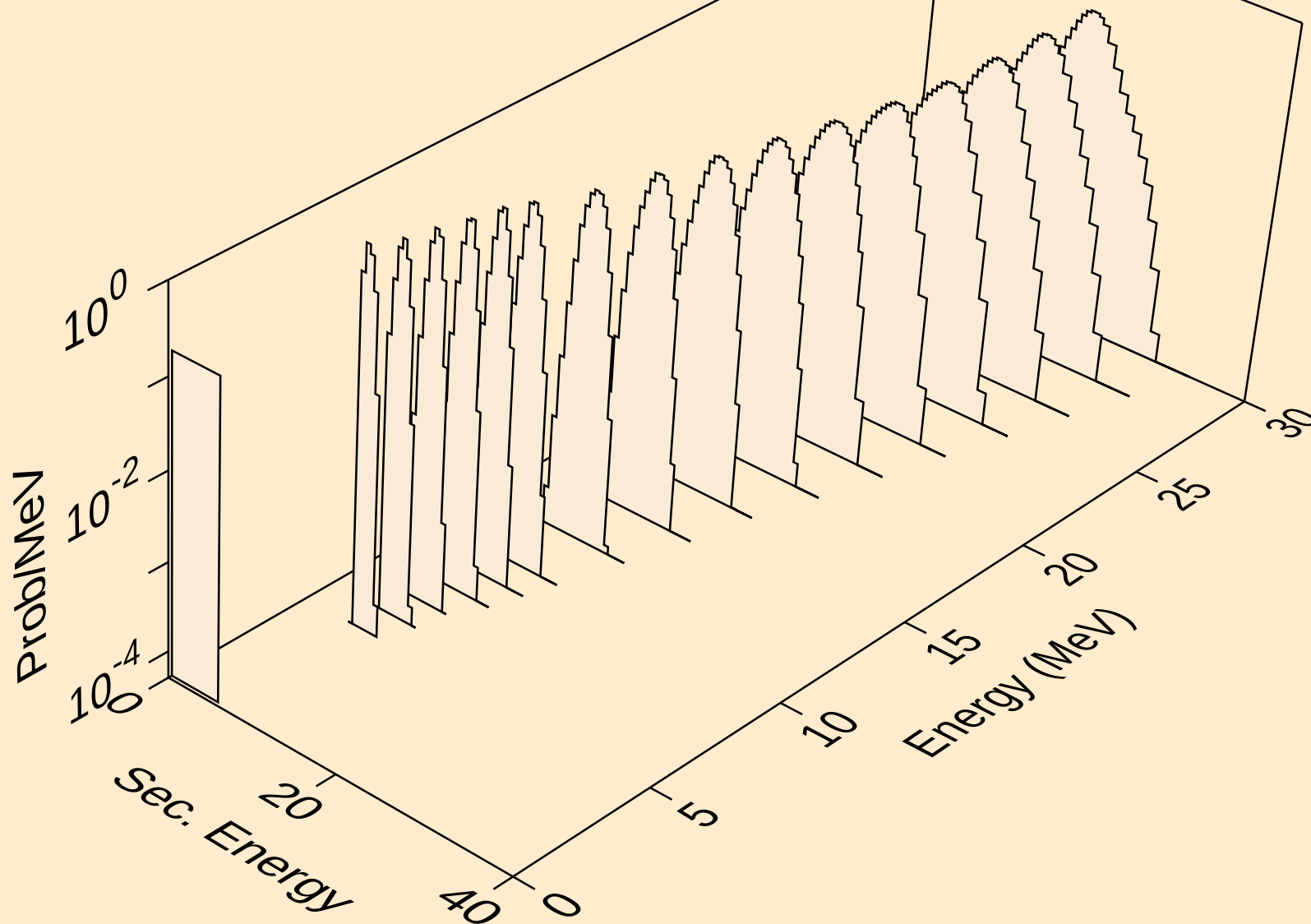
IR178 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
alphas from (p,2a)



IR178 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
alphas from (p,3a)



IR178 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
alphas from (p,pa)



IR178 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
alphas from (p,da)

