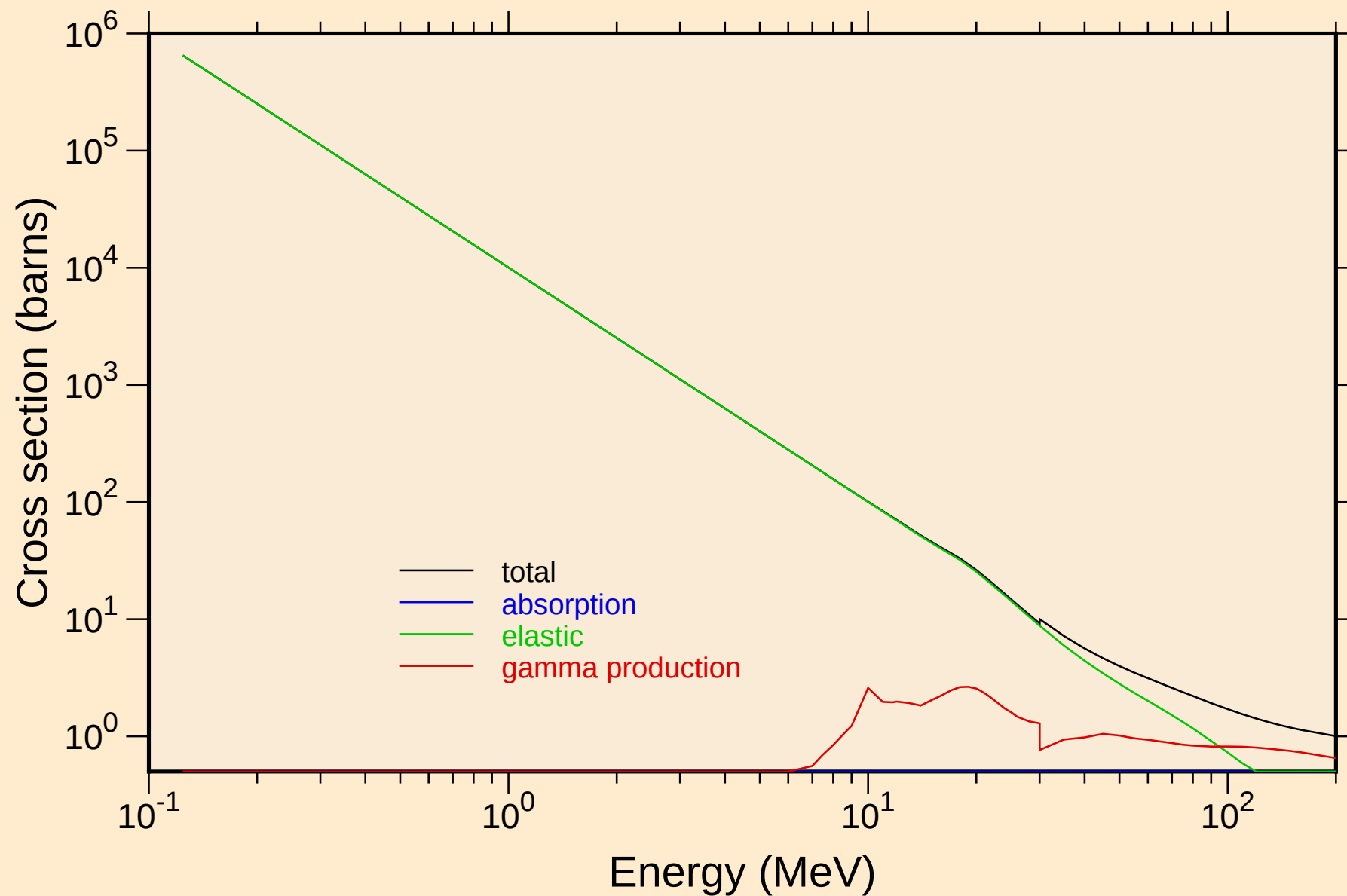


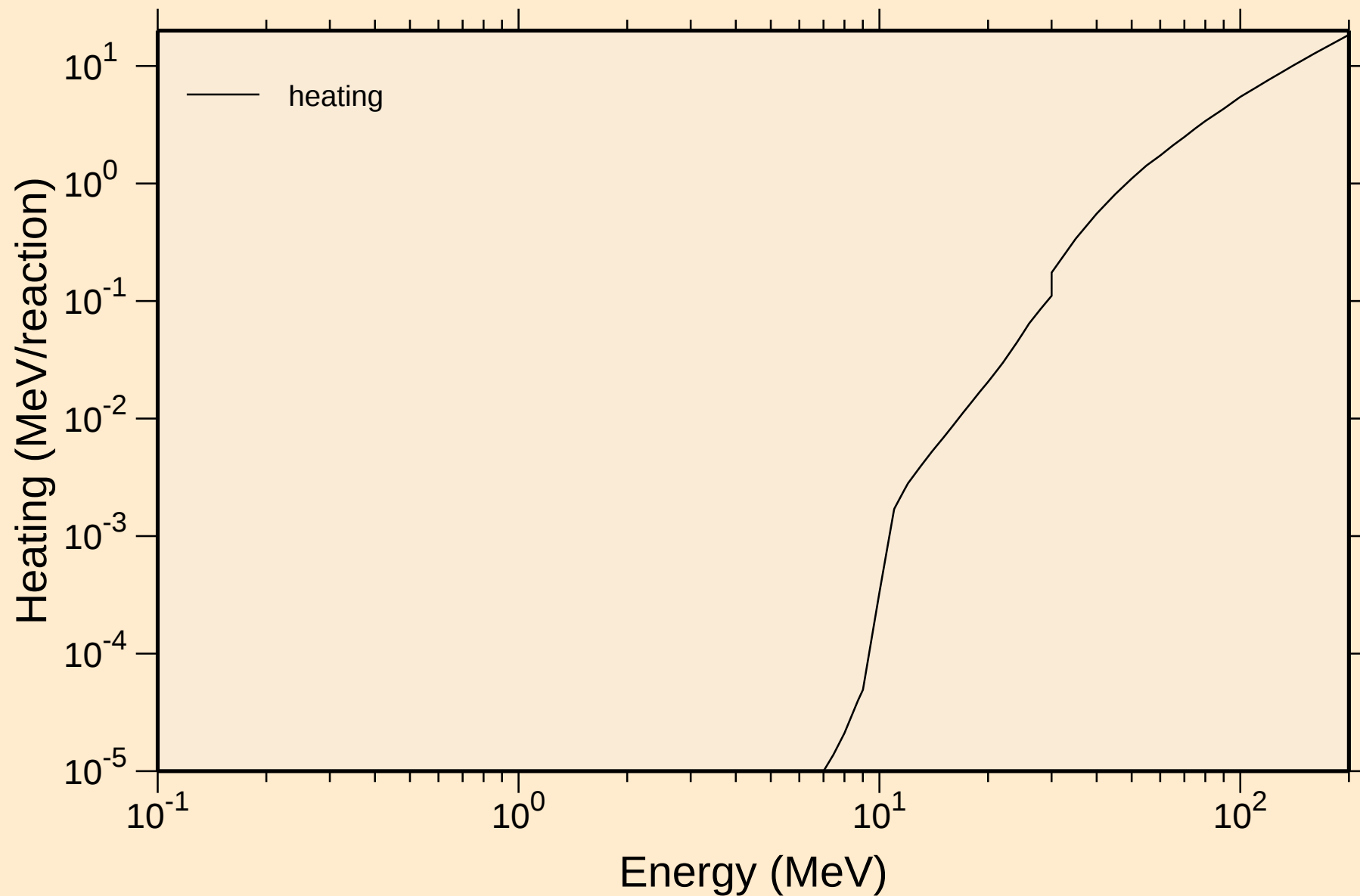
# ZR081 PROTON ACER TENDL-2024 LIBRARY; T=0.K

## Principal cross sections



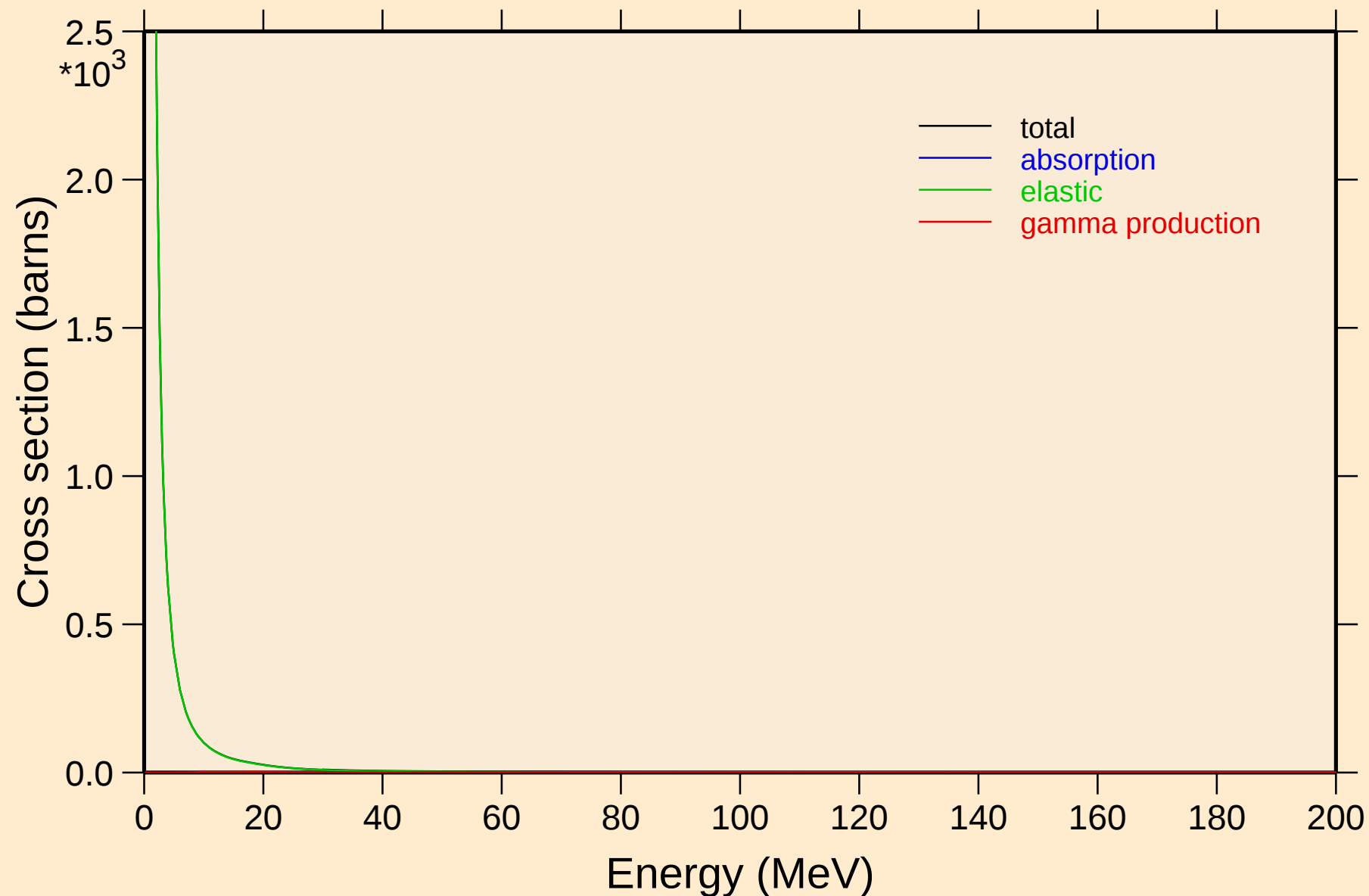
# ZR081 PROTON ACER TENDL-2024 LIBRARY; T=0.K

Heating



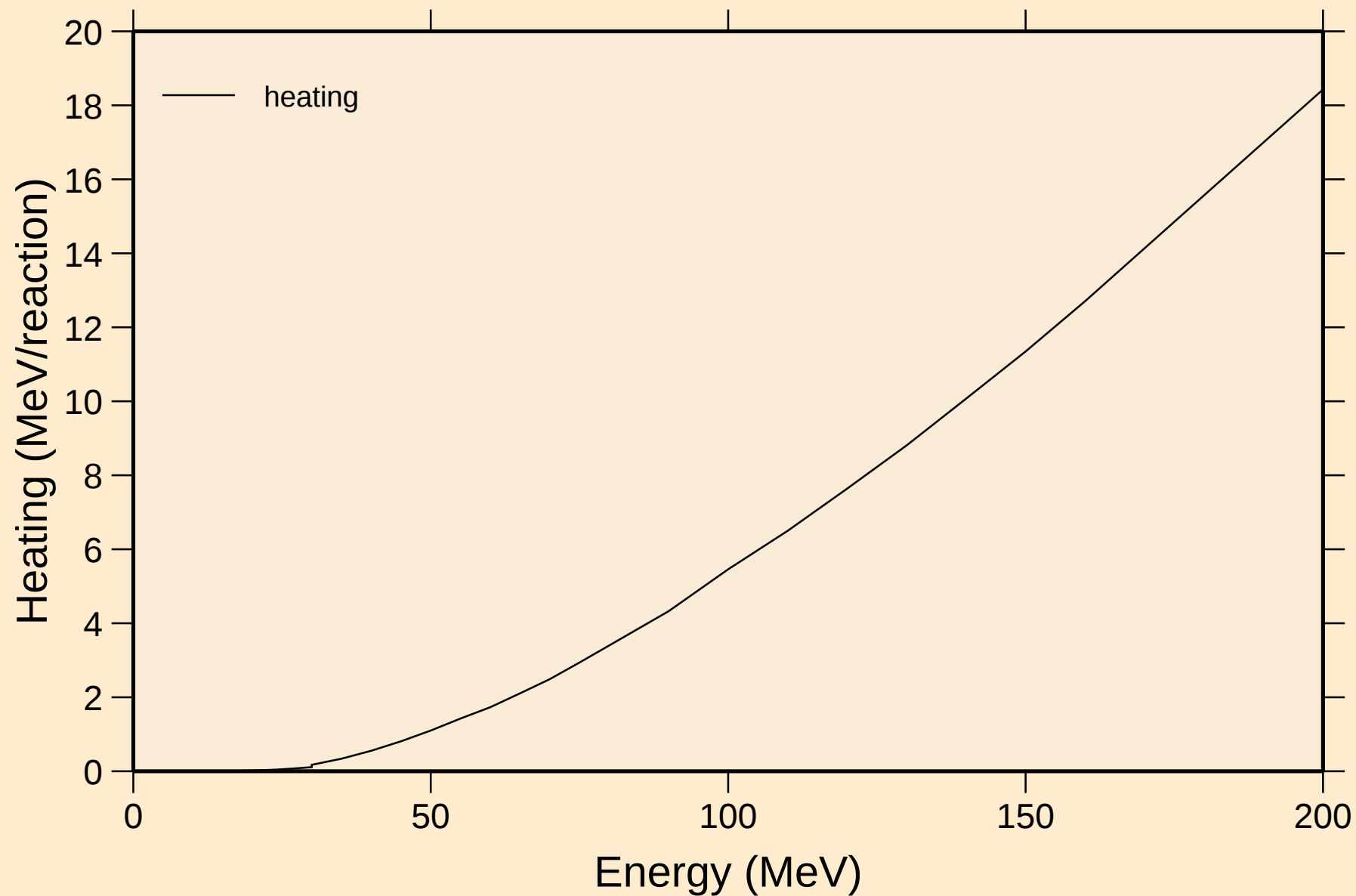
# ZR081 PROTON ACER TENDL-2024 LIBRARY; T=0.K

## Principal cross sections



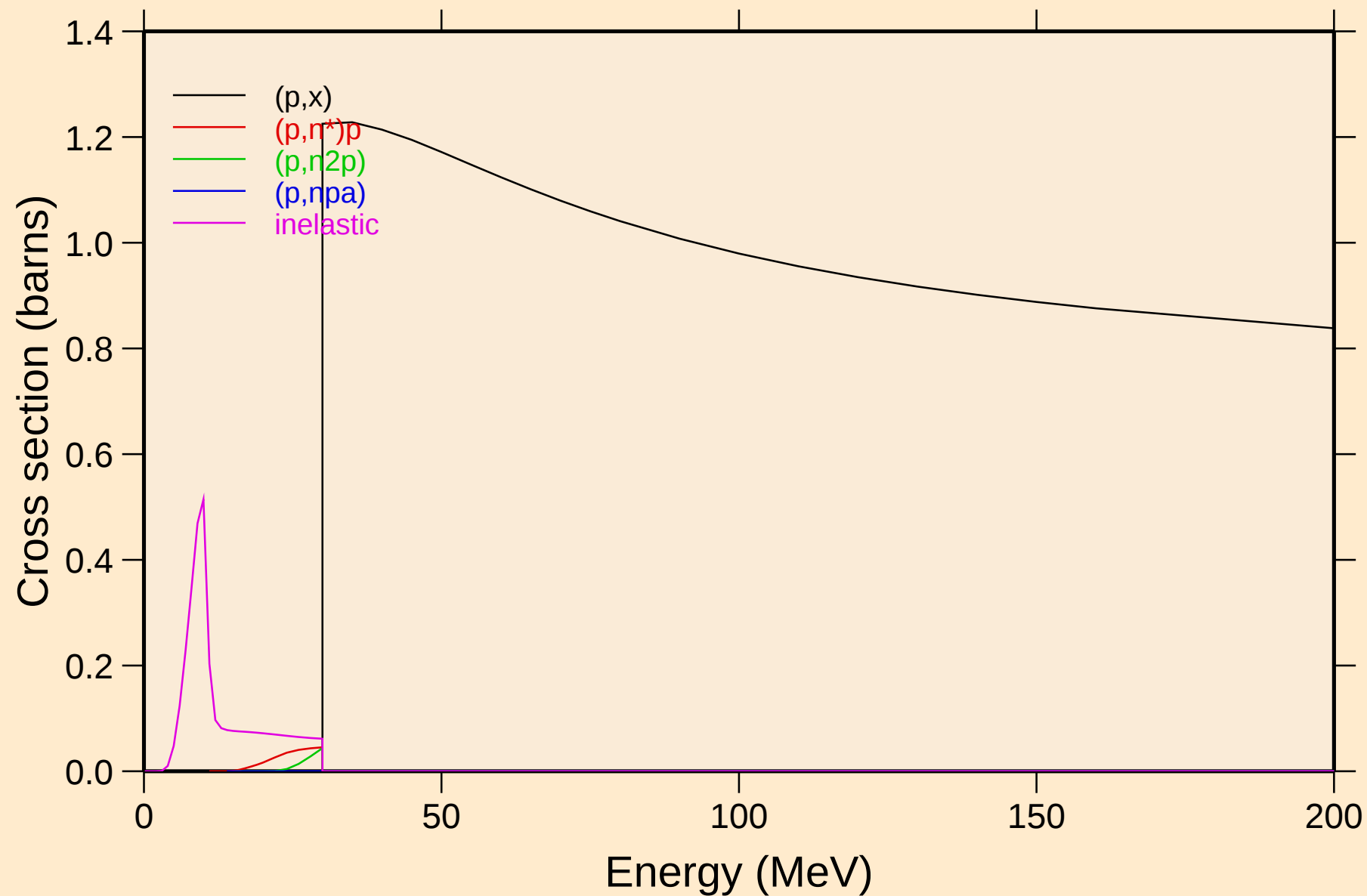
# ZR081 PROTON ACER TENDL-2024 LIBRARY; T=0.K

Heating



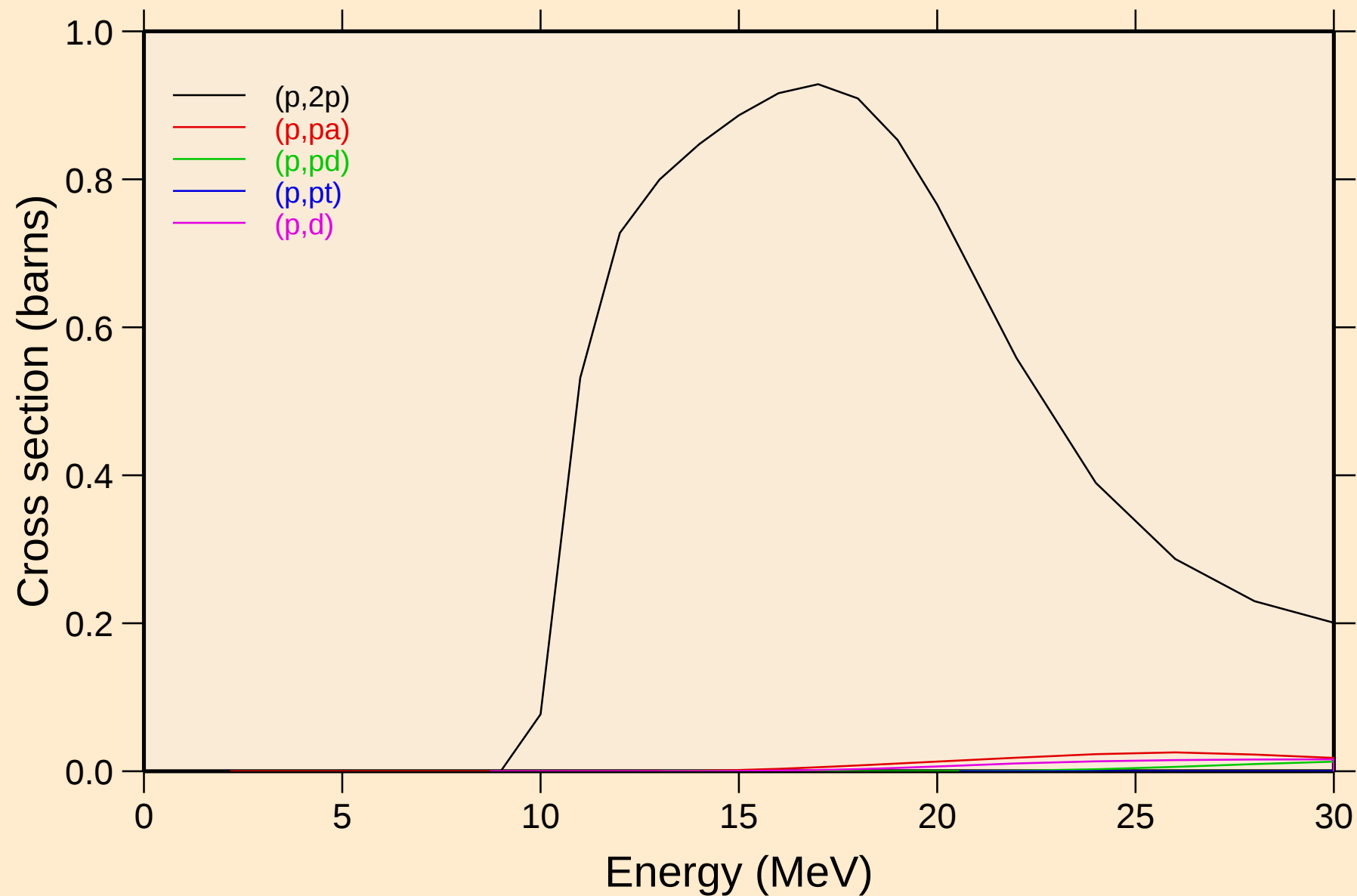
# ZR081 PROTON ACER TENDL-2024 LIBRARY; T=0.K

Threshold reactions



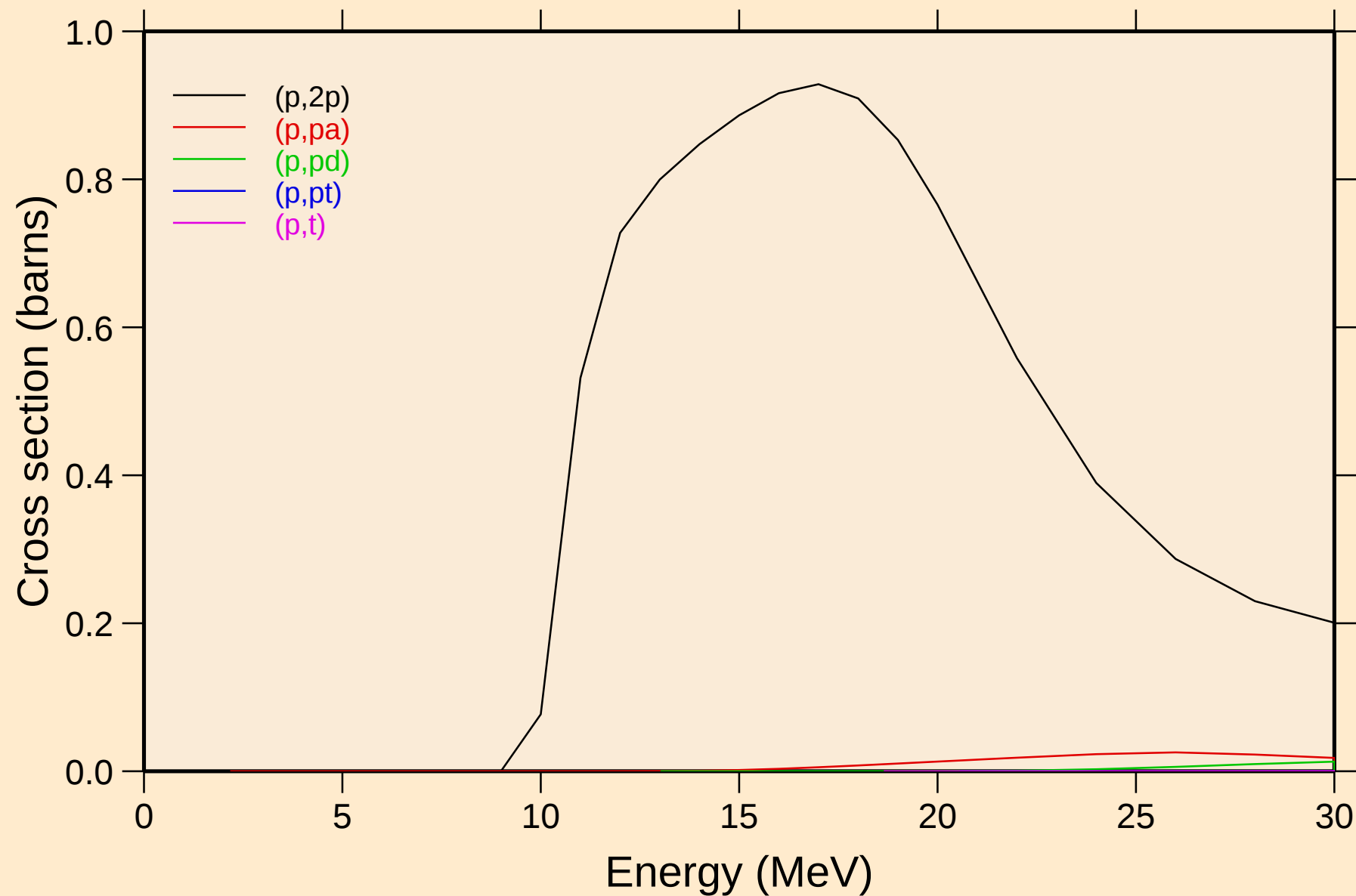
# ZR081 PROTON ACER TENDL-2024 LIBRARY; T=0.K

Threshold reactions



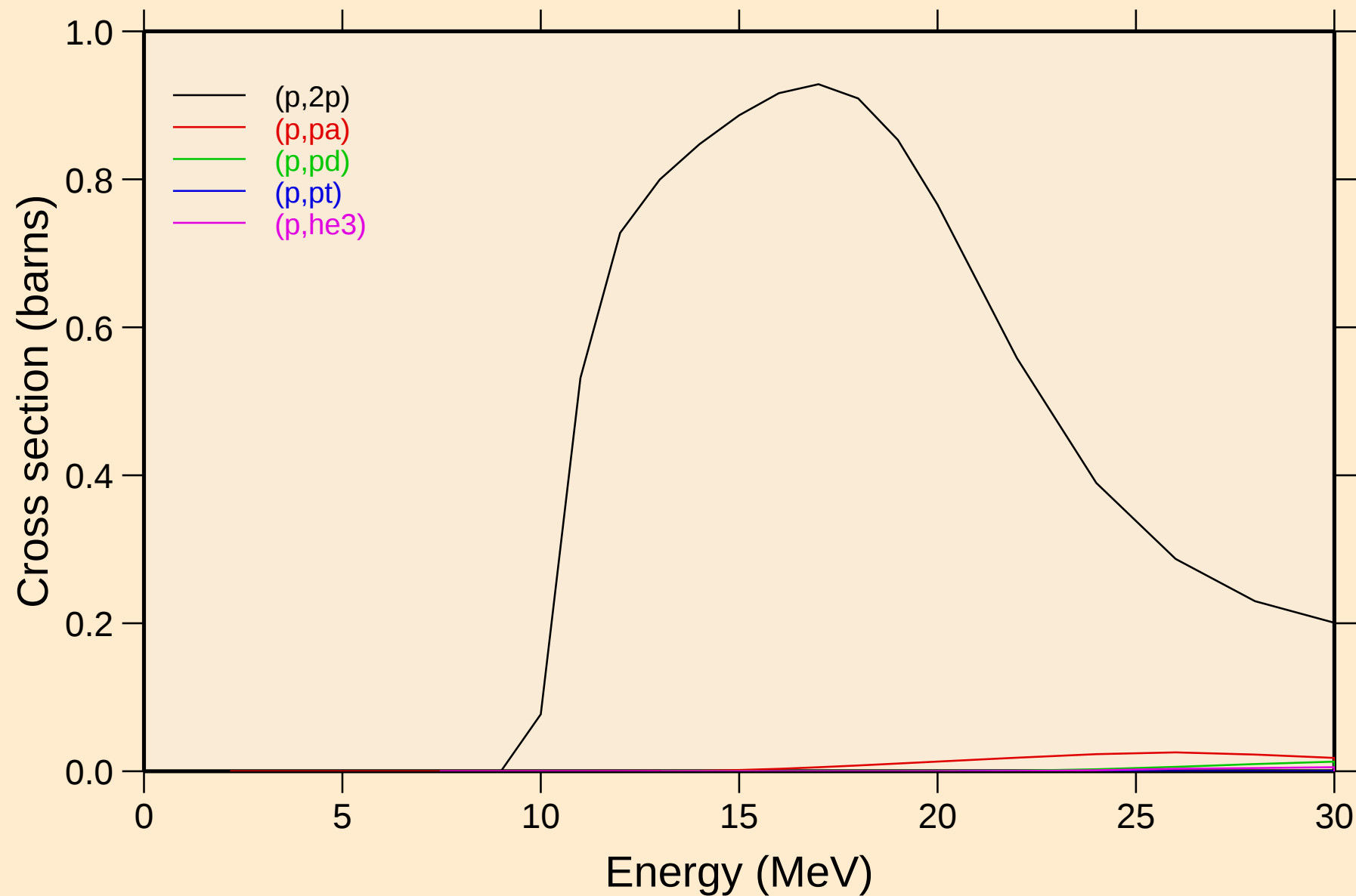
# ZR081 PROTON ACER TENDL-2024 LIBRARY; T=0.K

Threshold reactions



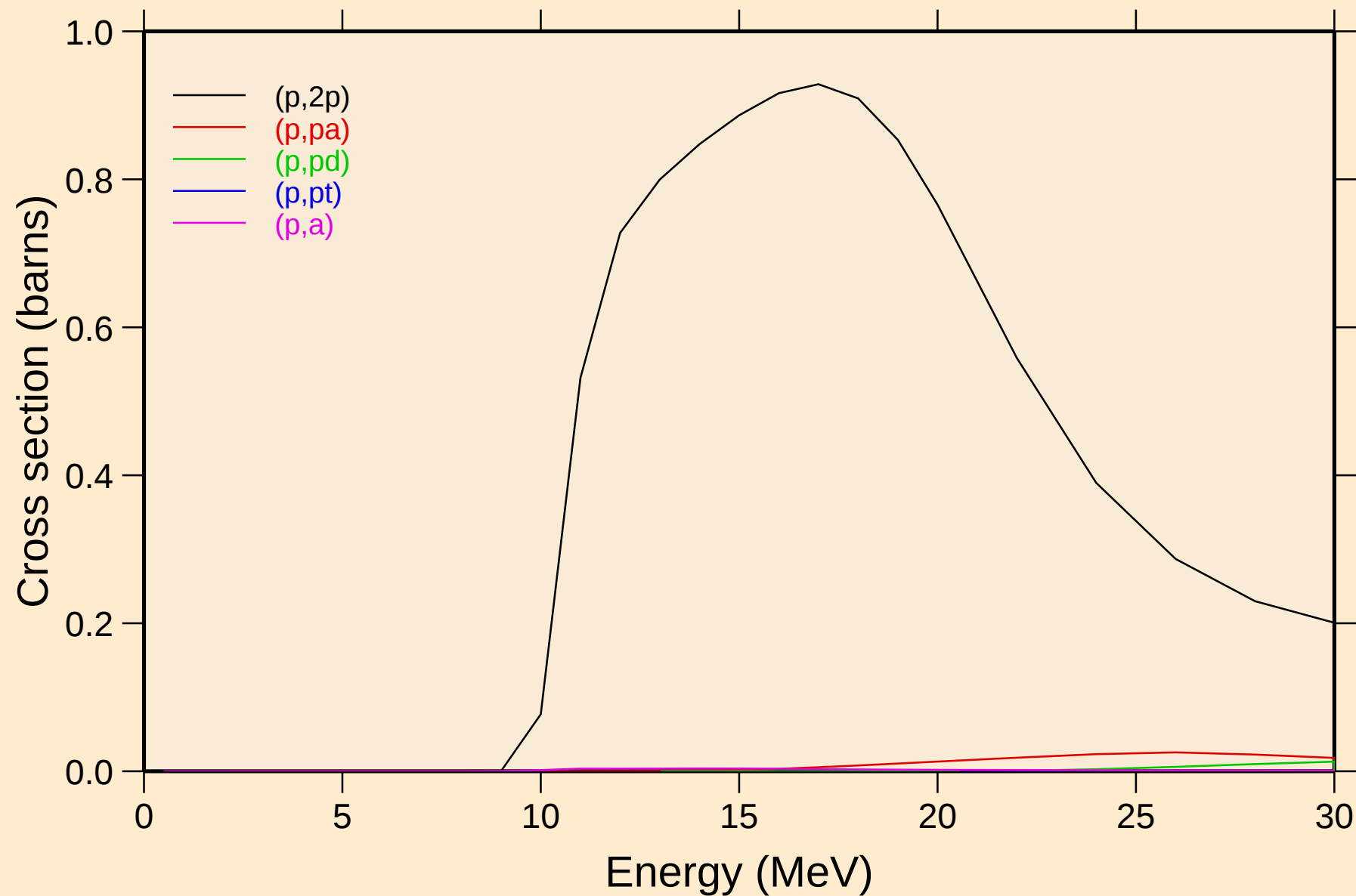
# ZR081 PROTON ACER TENDL-2024 LIBRARY; T=0.K

Threshold reactions



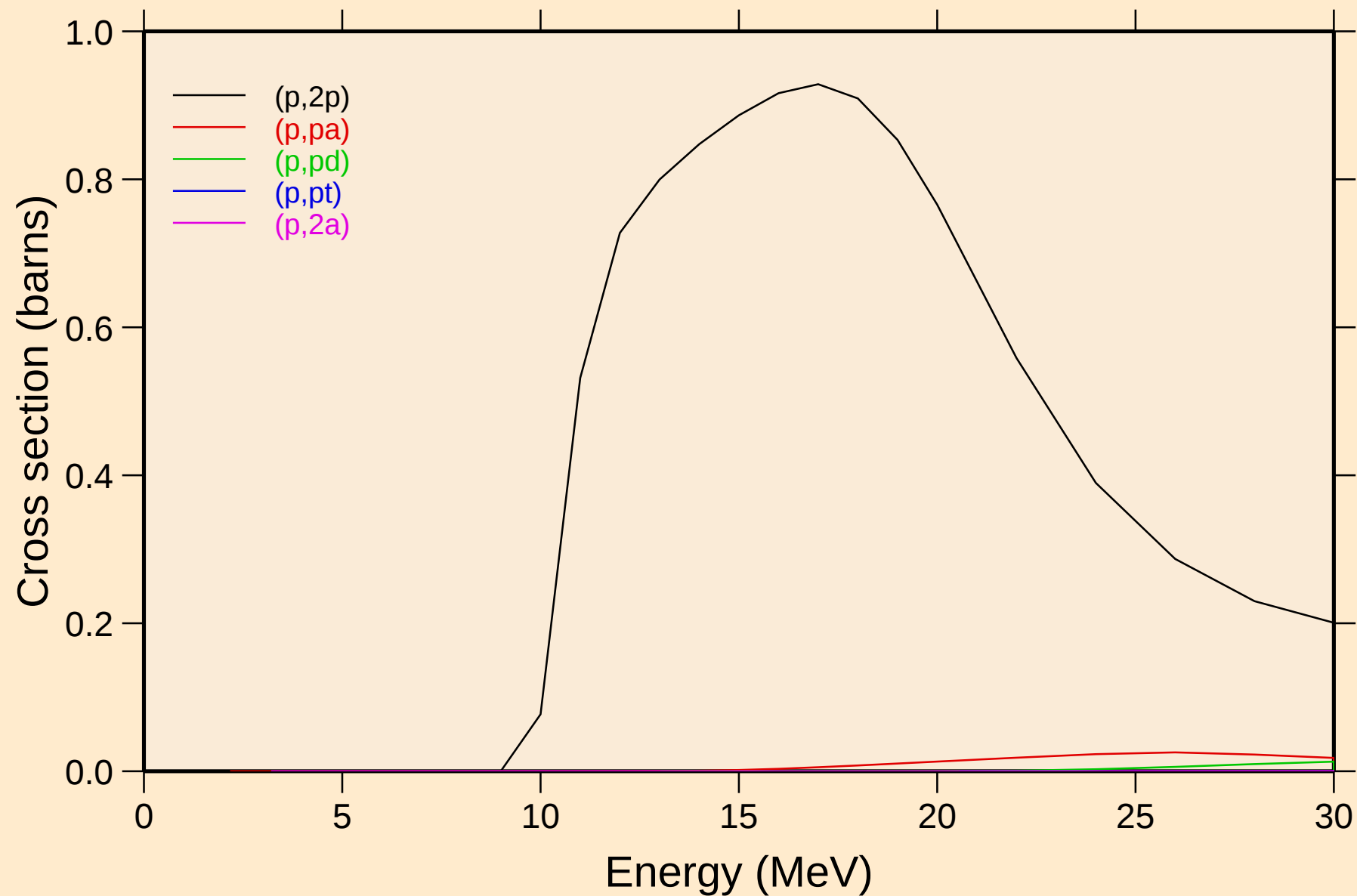
# ZR081 PROTON ACER TENDL-2024 LIBRARY; T=0.K

Threshold reactions



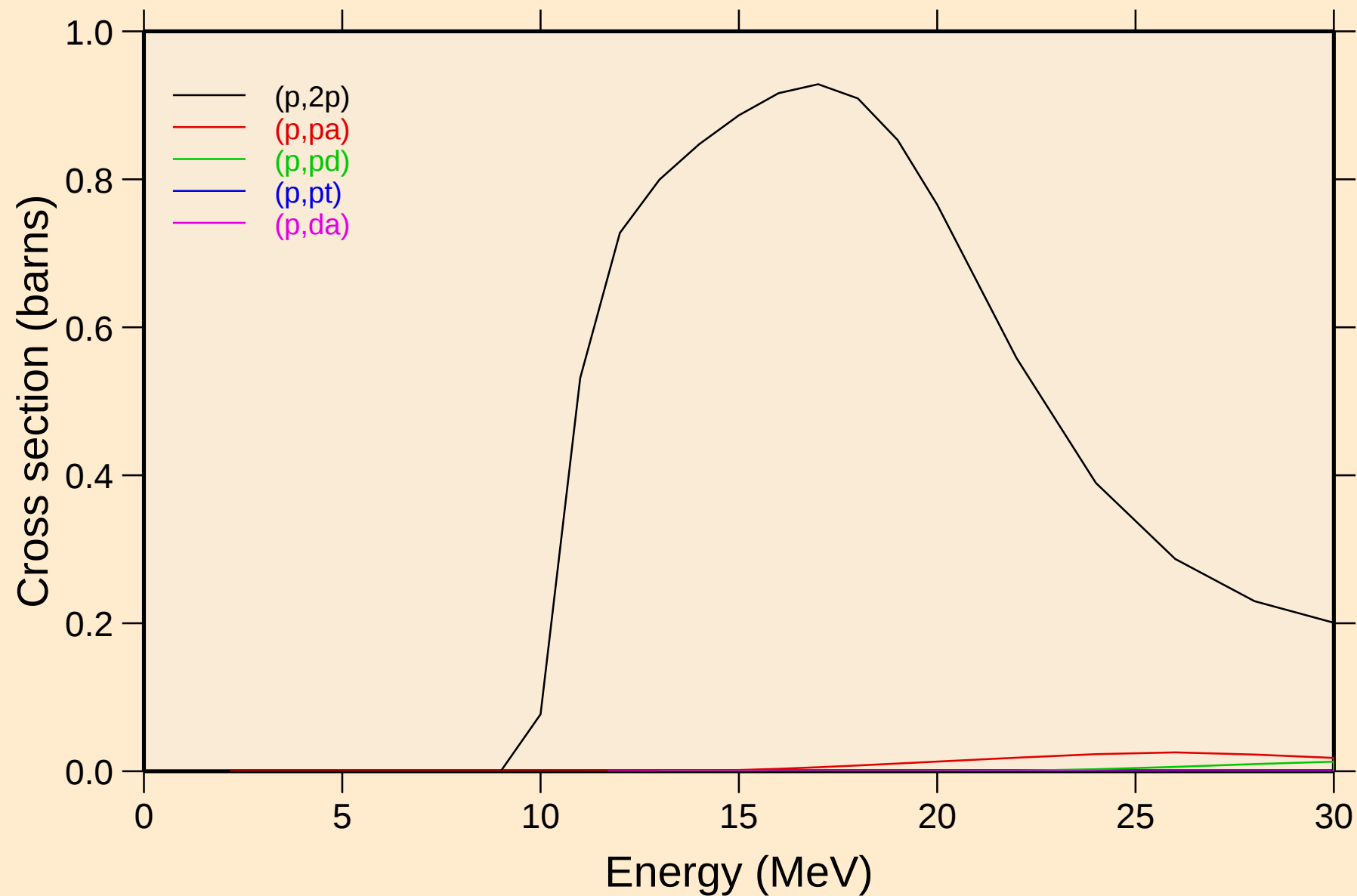
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Threshold reactions

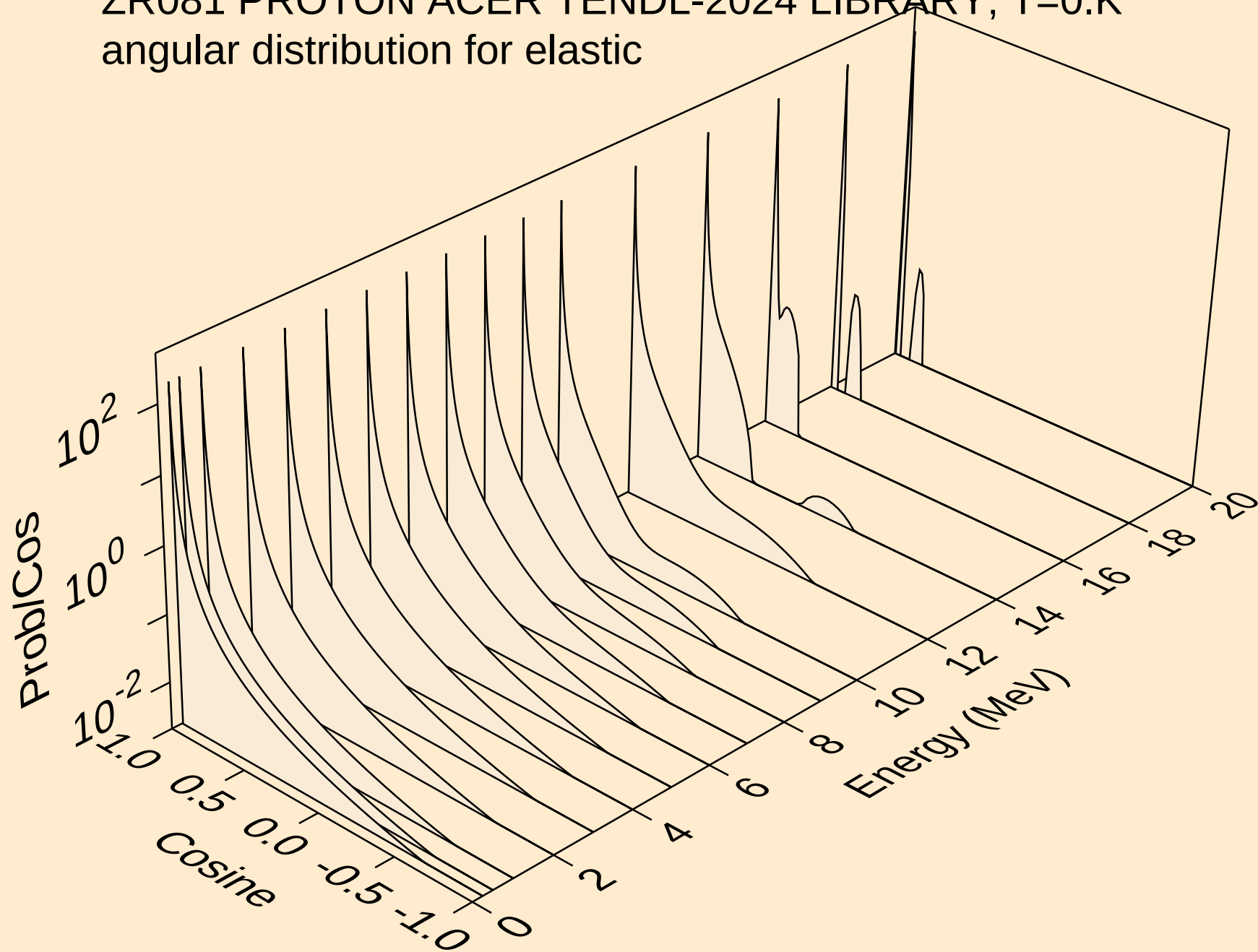


# ZR081 PROTON ACER TENDL-2024 LIBRARY; T=0.K

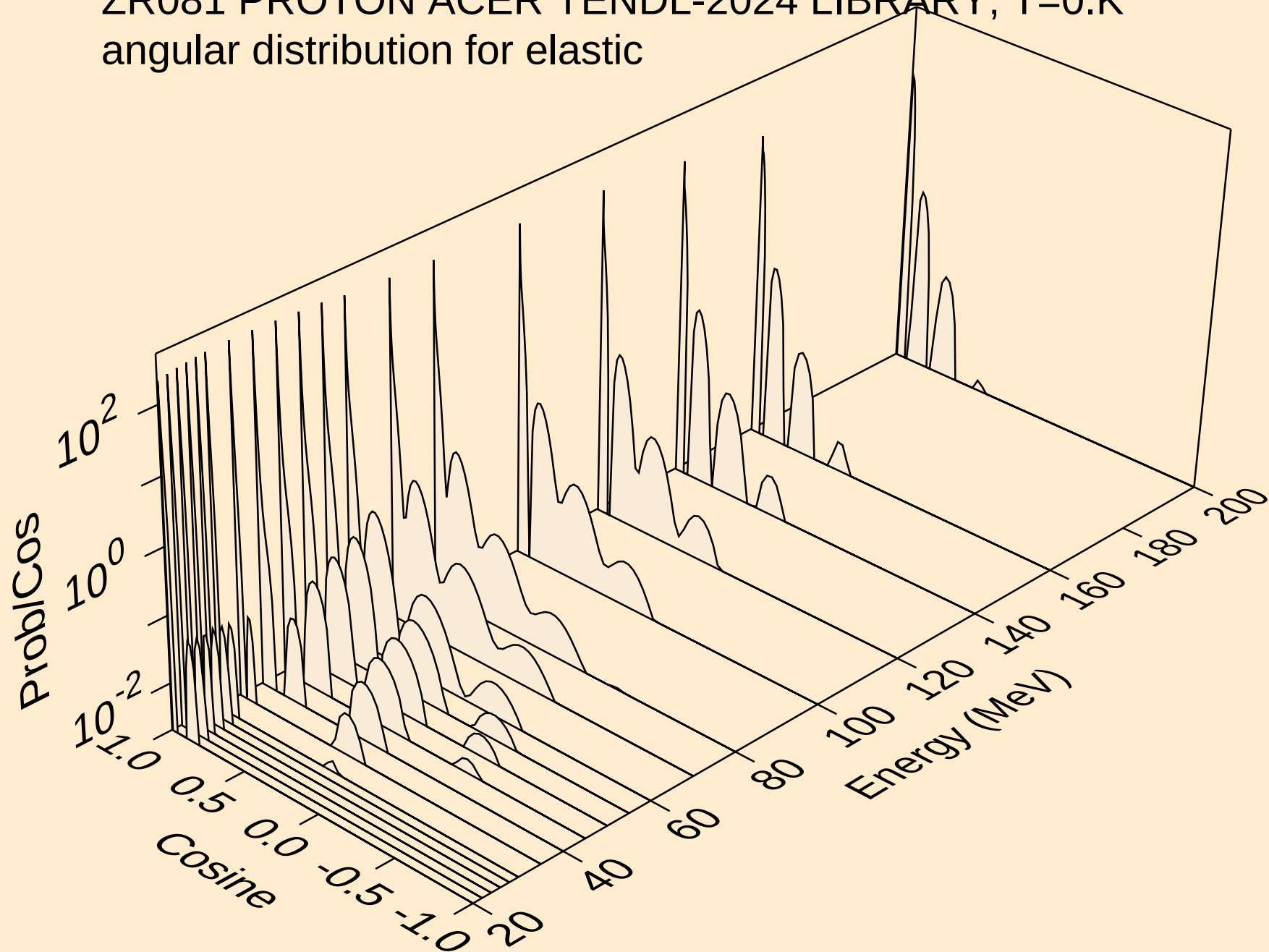
Threshold reactions



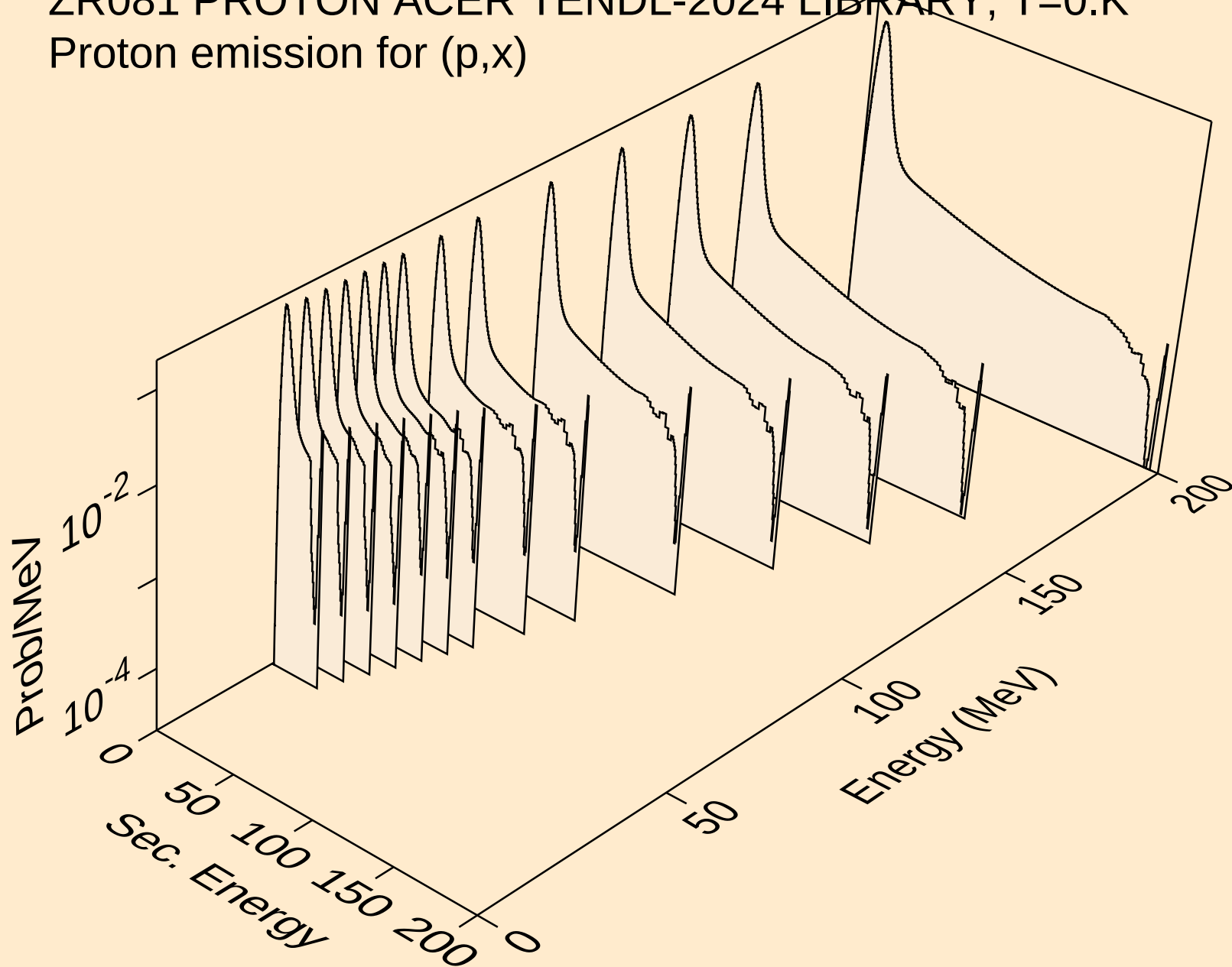
ZR081 PROTON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for elastic



ZR081 PROTON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for elastic

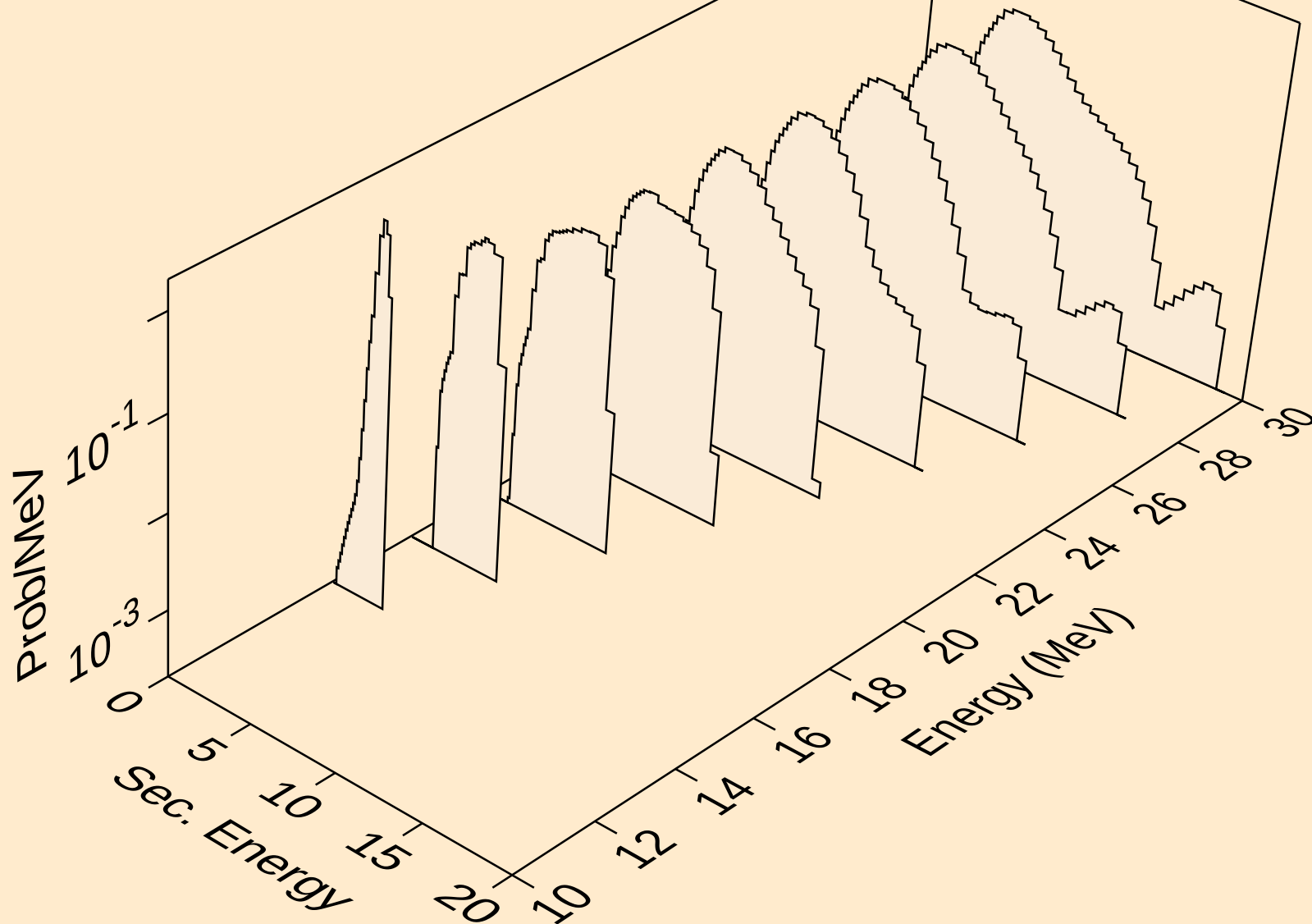


ZR081 PROTON ACER TENDL-2024 LIBRARY; T=0.K  
Proton emission for (p,x)

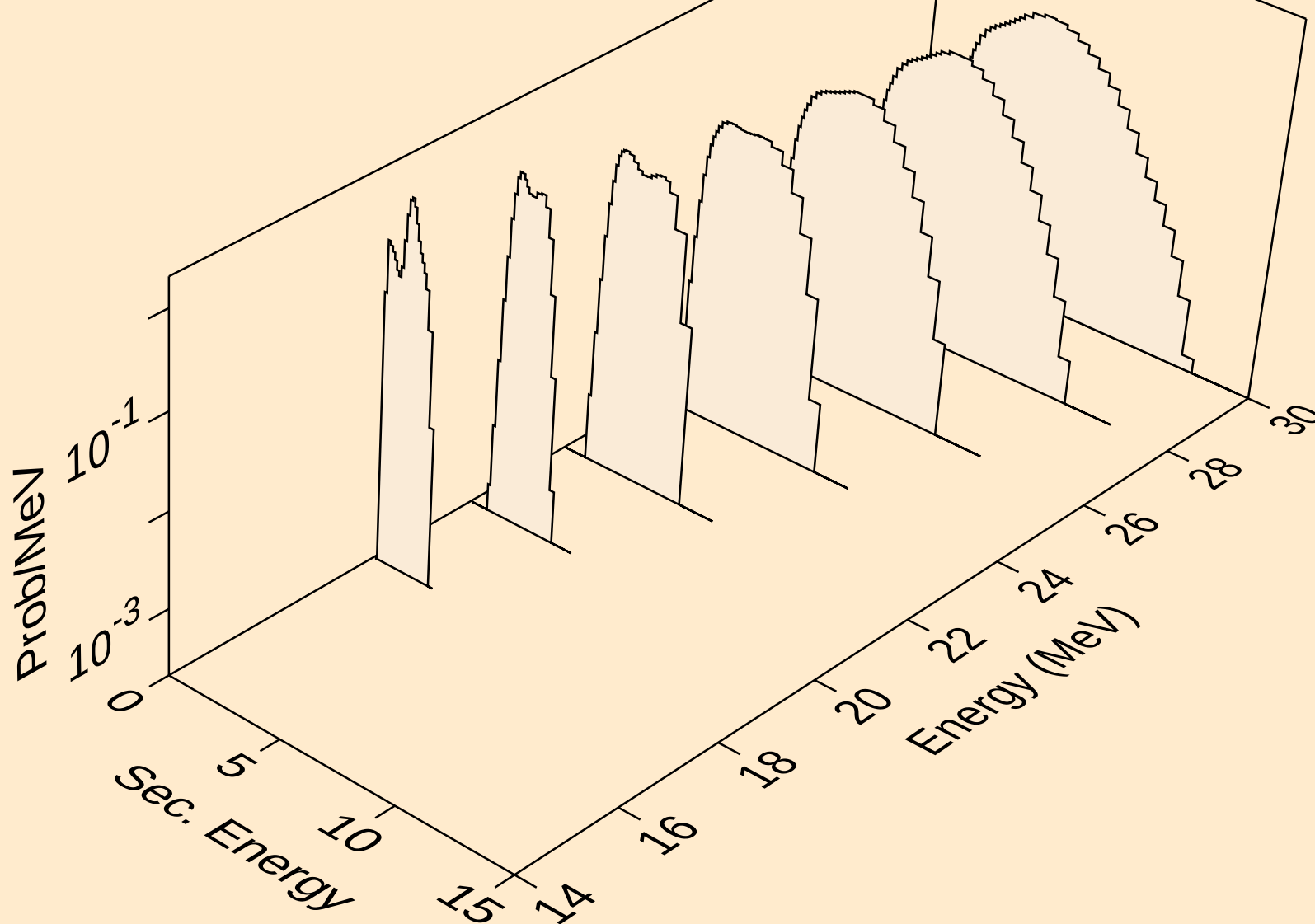


ZR081 PROTON ACER TENDL-2024 LIBRARY; T=0.K

Proton emission for (p,n\*)p

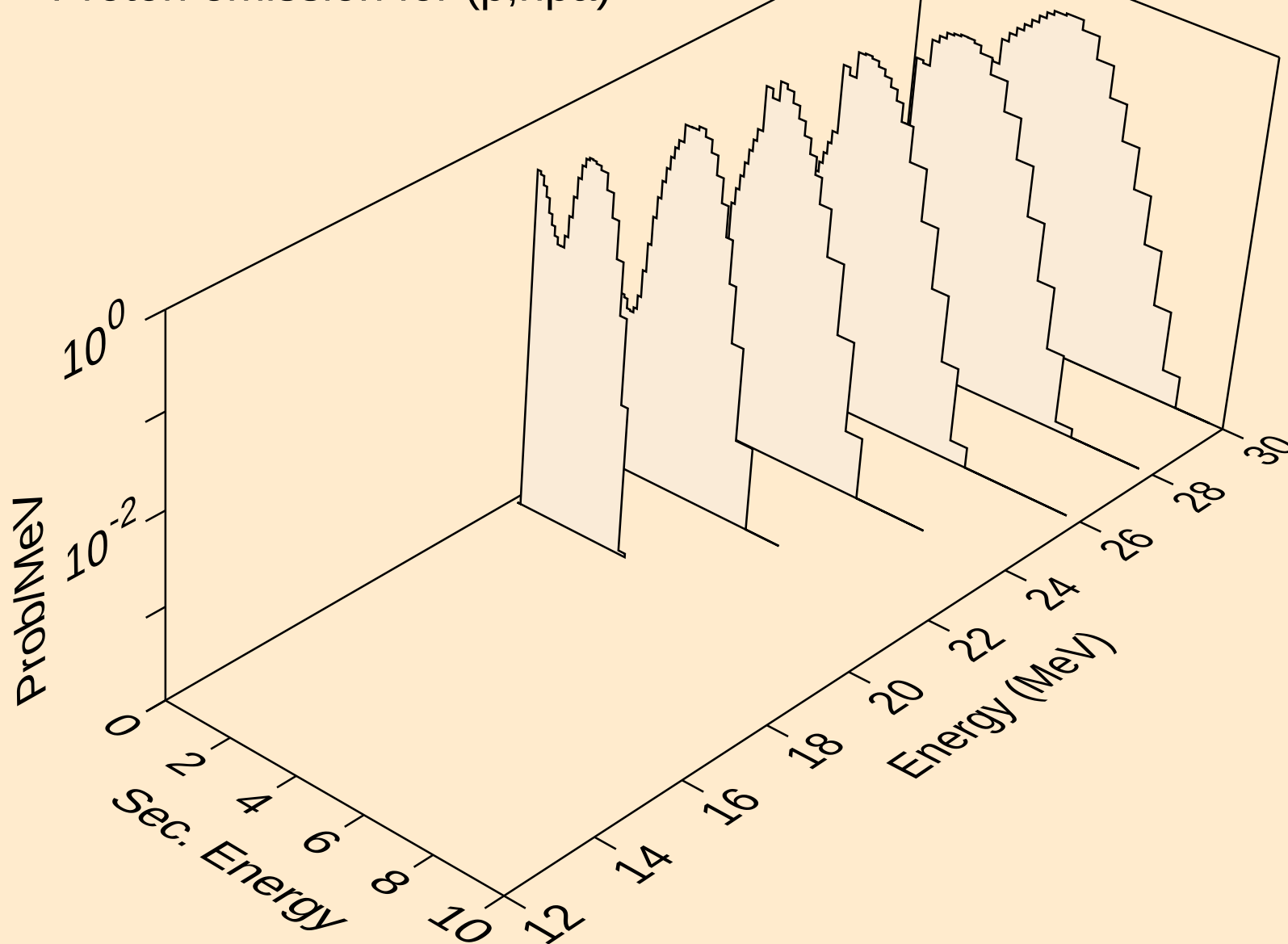


ZR081 PROTON ACER TENDL-2024 LIBRARY; T=0.K  
Proton emission for (p,n2p)

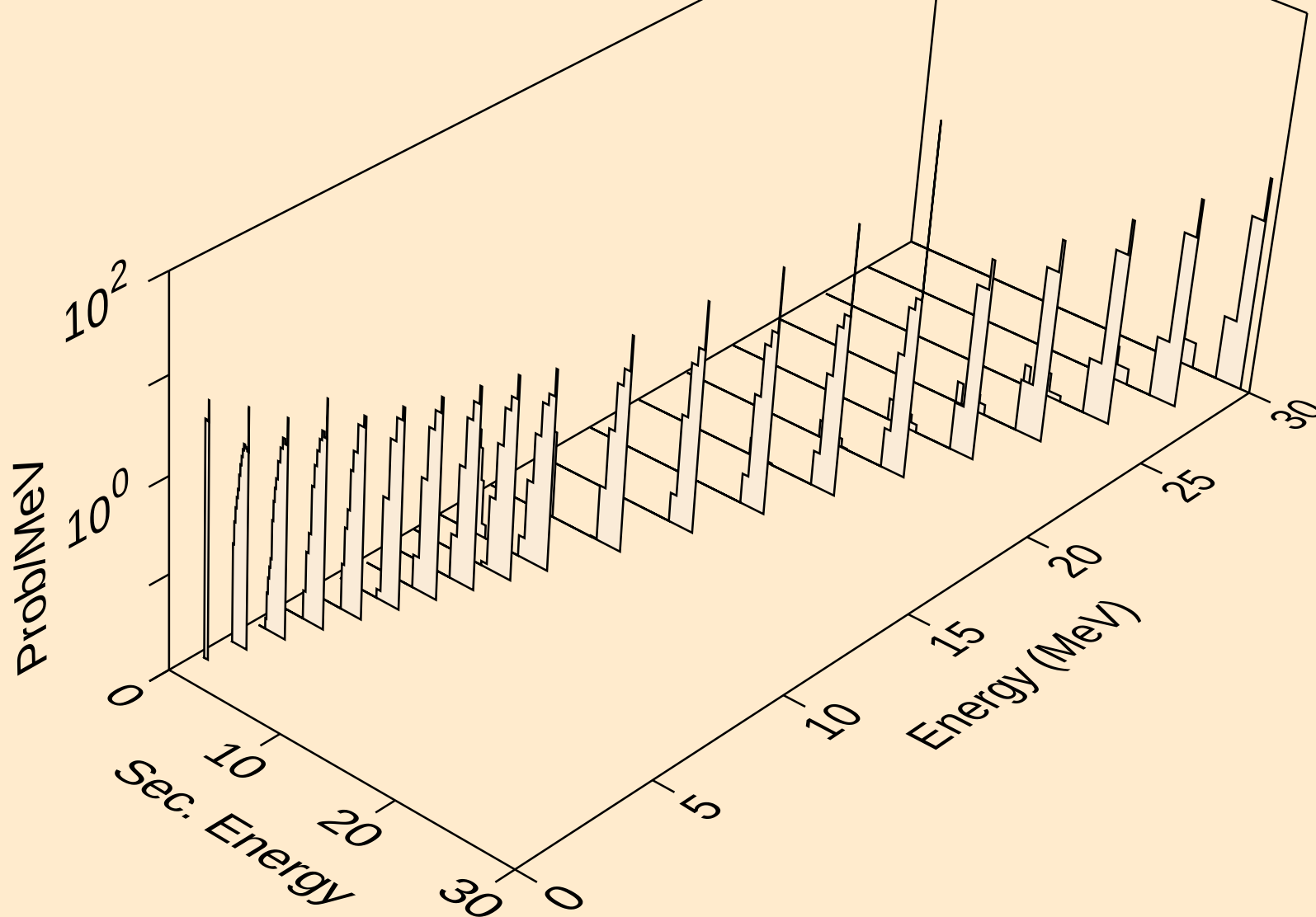


ZR081 PROTON ACER TENDL-2024 LIBRARY; T=0.K

Proton emission for (p,npa)

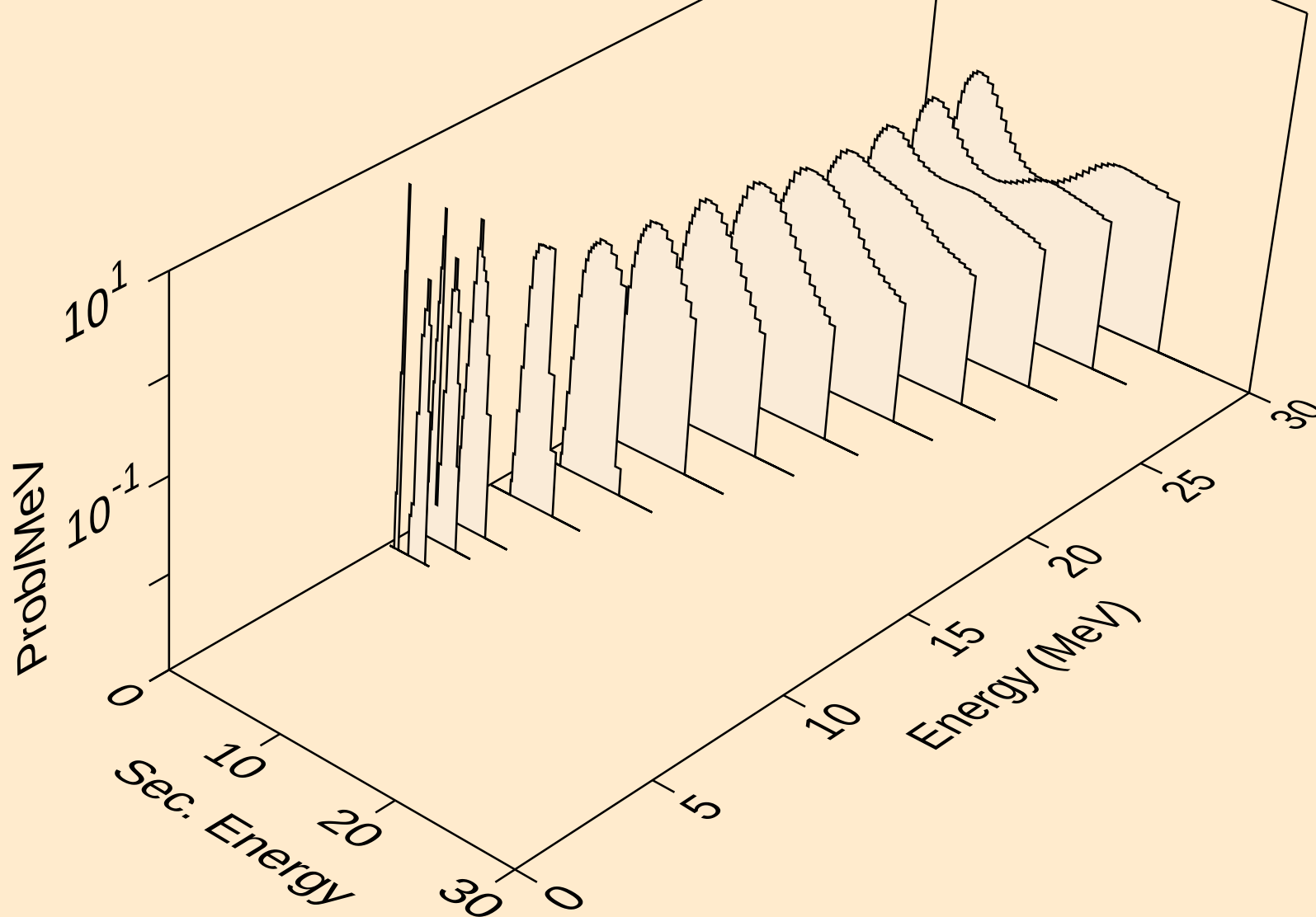


ZR081 PROTON ACER TENDL-2024 LIBRARY; T=0.K  
Proton emission for inelastic



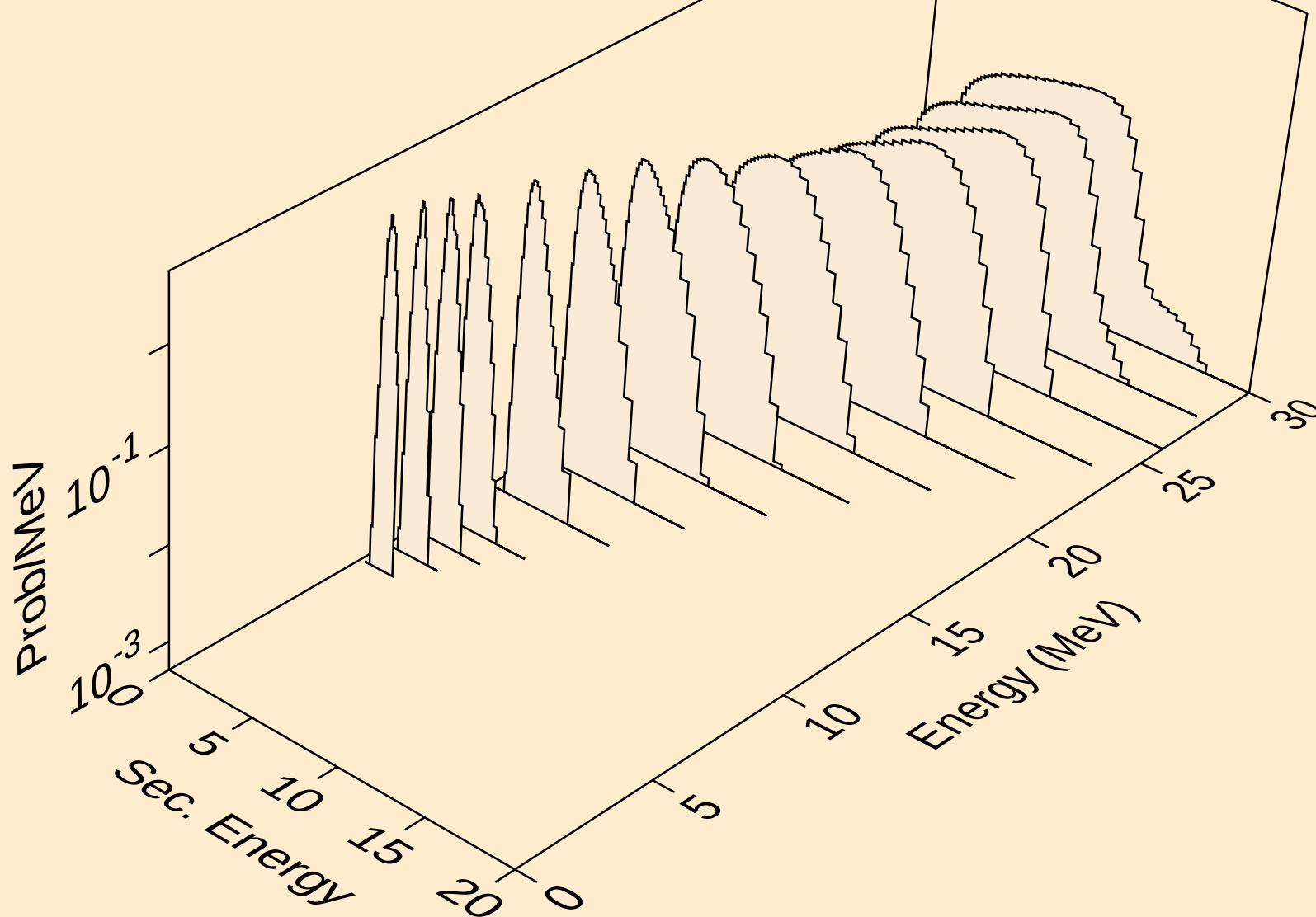
ZR081 PROTON ACER TENDL-2024 LIBRARY; T=0.K

Proton emission for (p,2p)



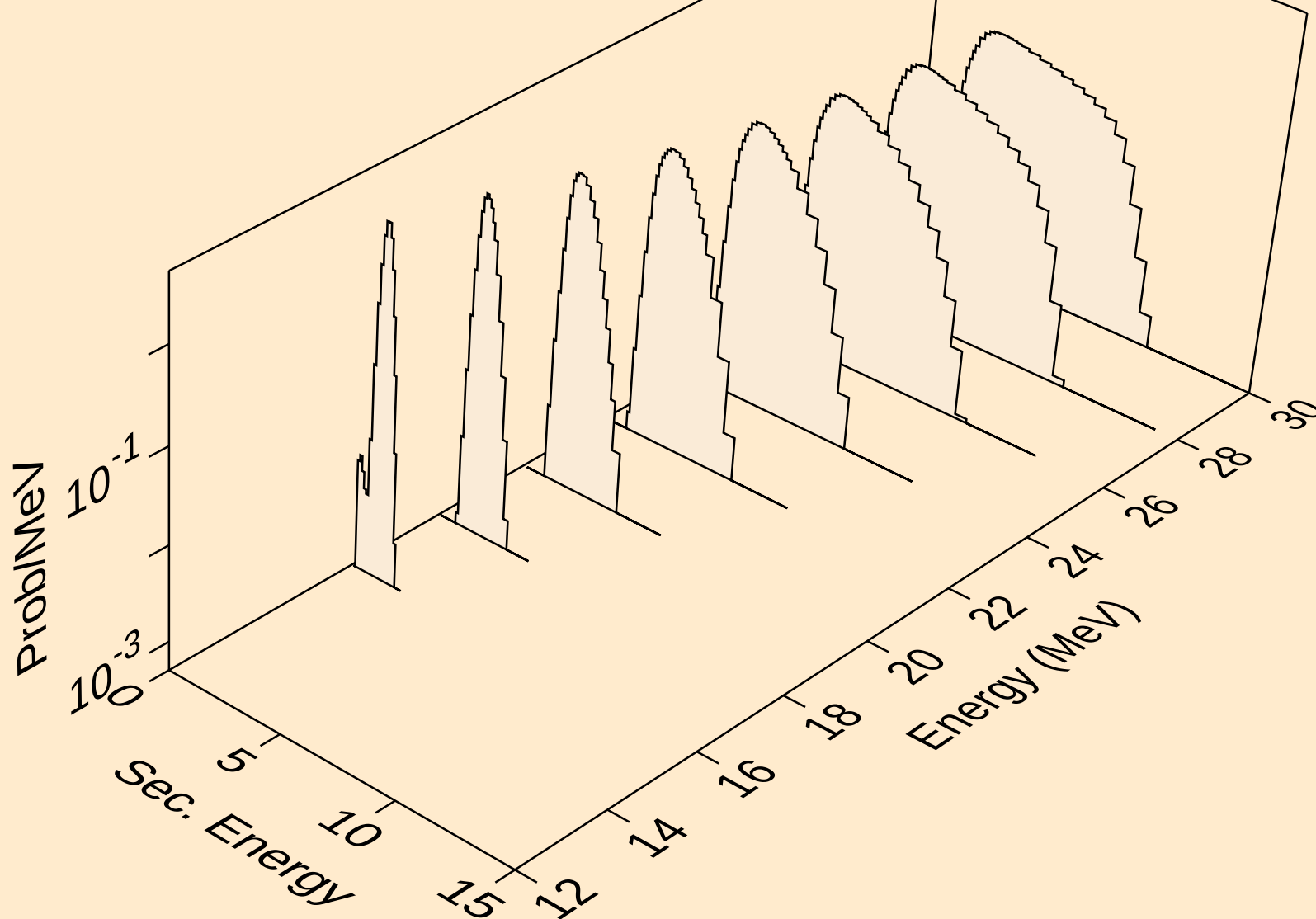
ZR081 PROTON ACER TENDL-2024 LIBRARY; T=0.K

Proton emission for (p,pa)



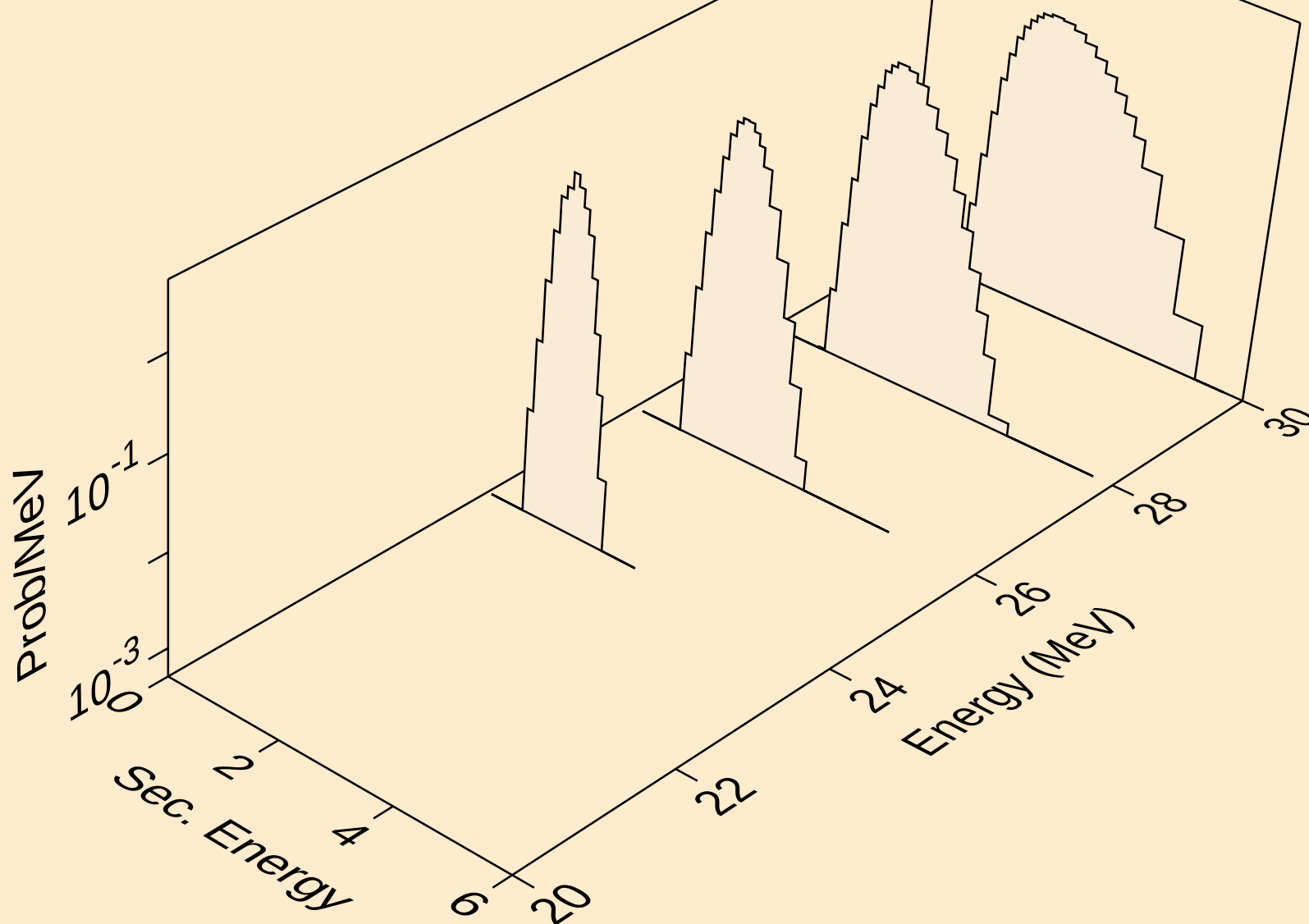
ZR081 PROTON ACER TENDL-2024 LIBRARY; T=0.K

Proton emission for (p,pd)

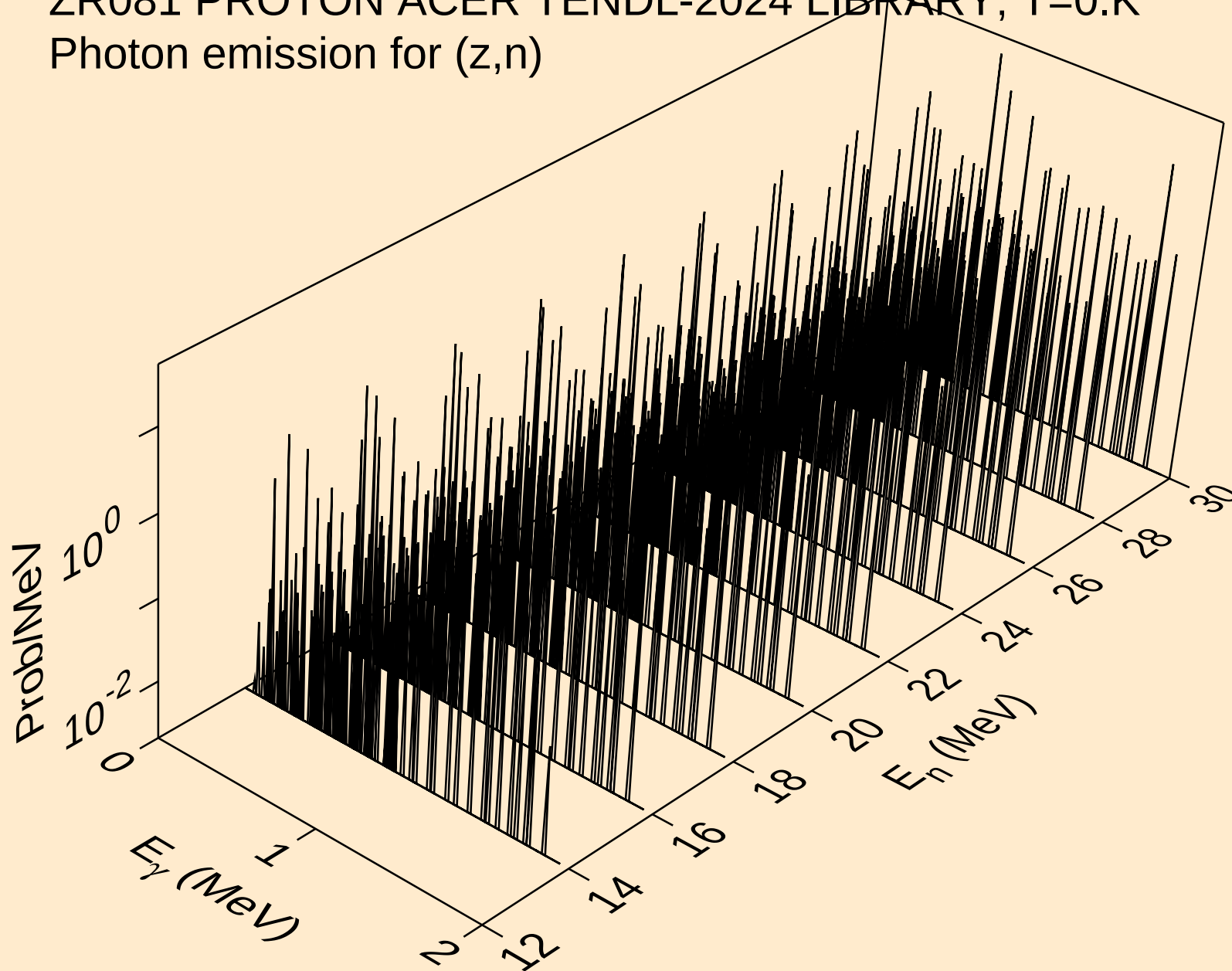


ZR081 PROTON ACER TENDL-2024 LIBRARY; T=0.K

Proton emission for (p,pt)

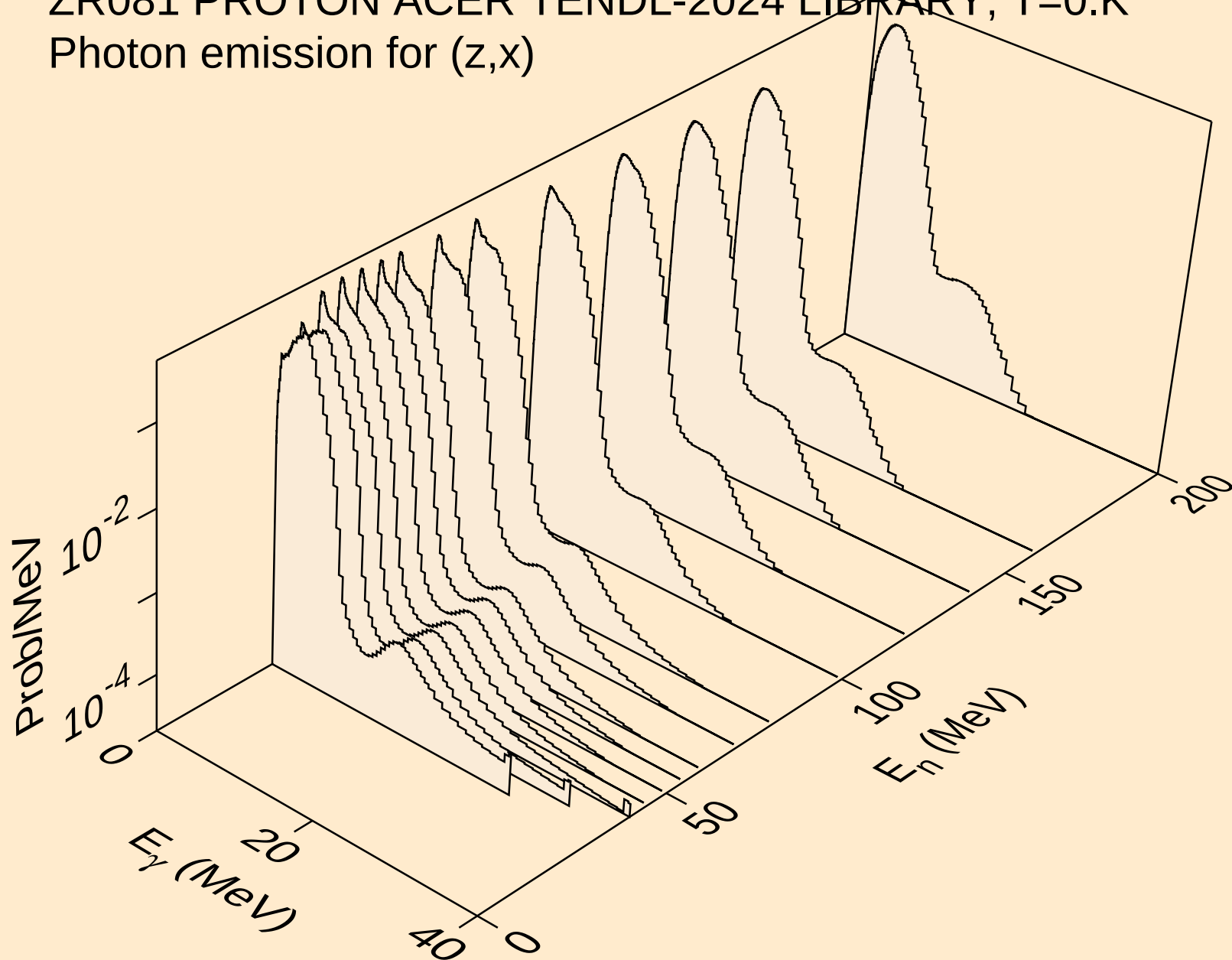


ZR081 PROTON ACER TENDL-2024 LIBRARY;  $T=0.K$   
Photon emission for (z,n)



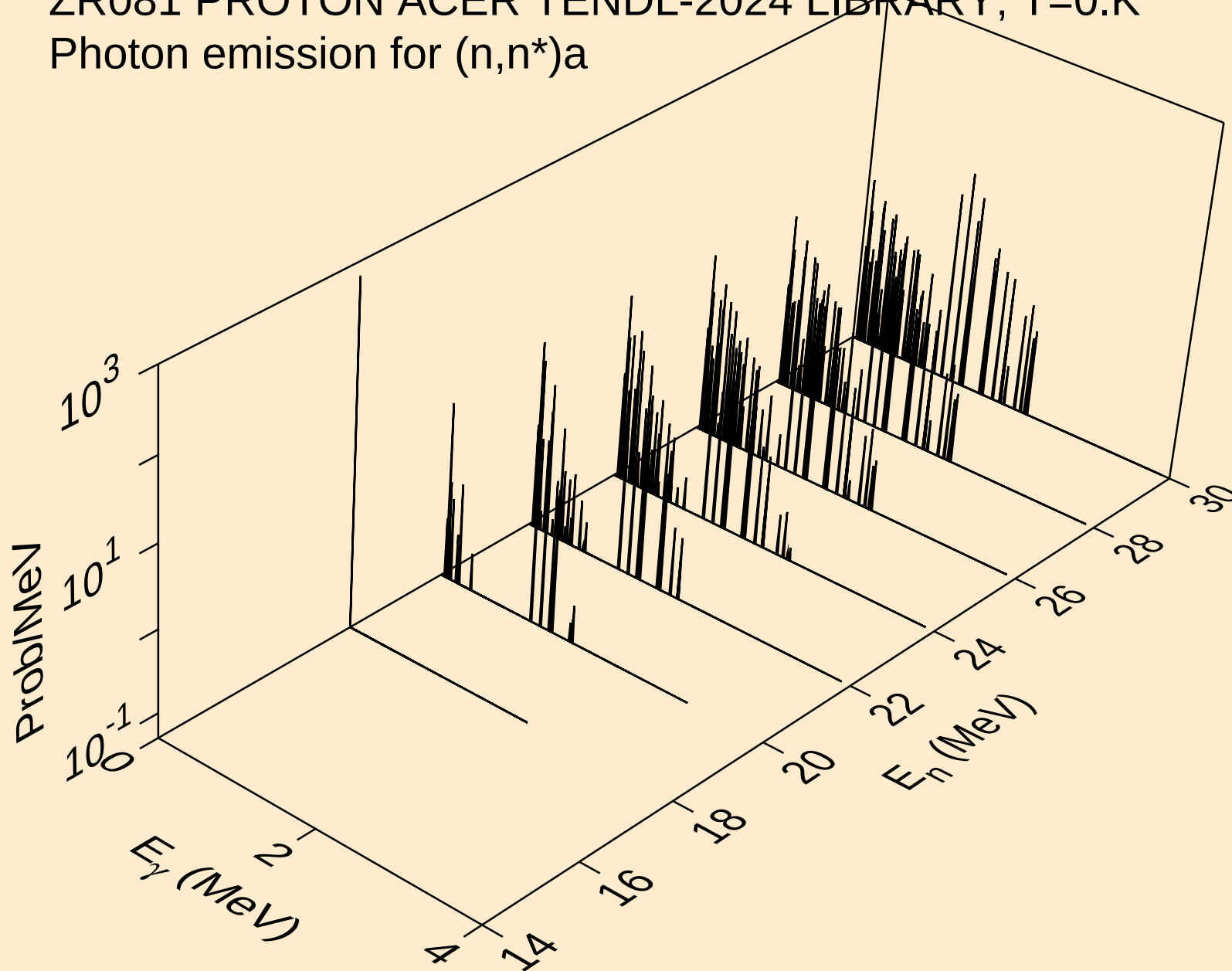
ZR081 PROTON ACER TENDL-2024 LIBRARY; T=0.K

Photon emission for (z,x)



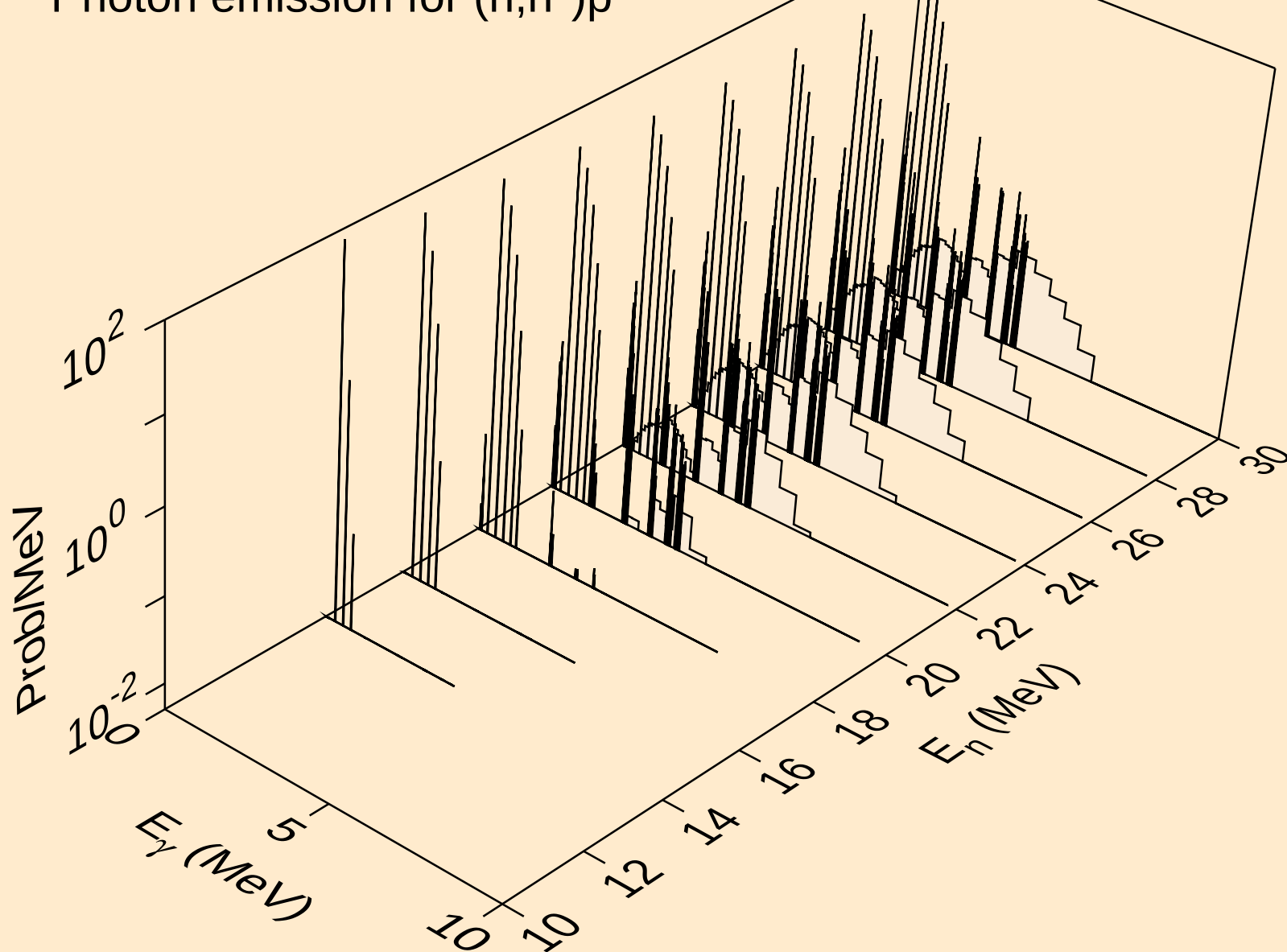
ZR081 PROTON ACER TENDL-2024 LIBRARY; T=0.K

Photon emission for (n,n\*)a



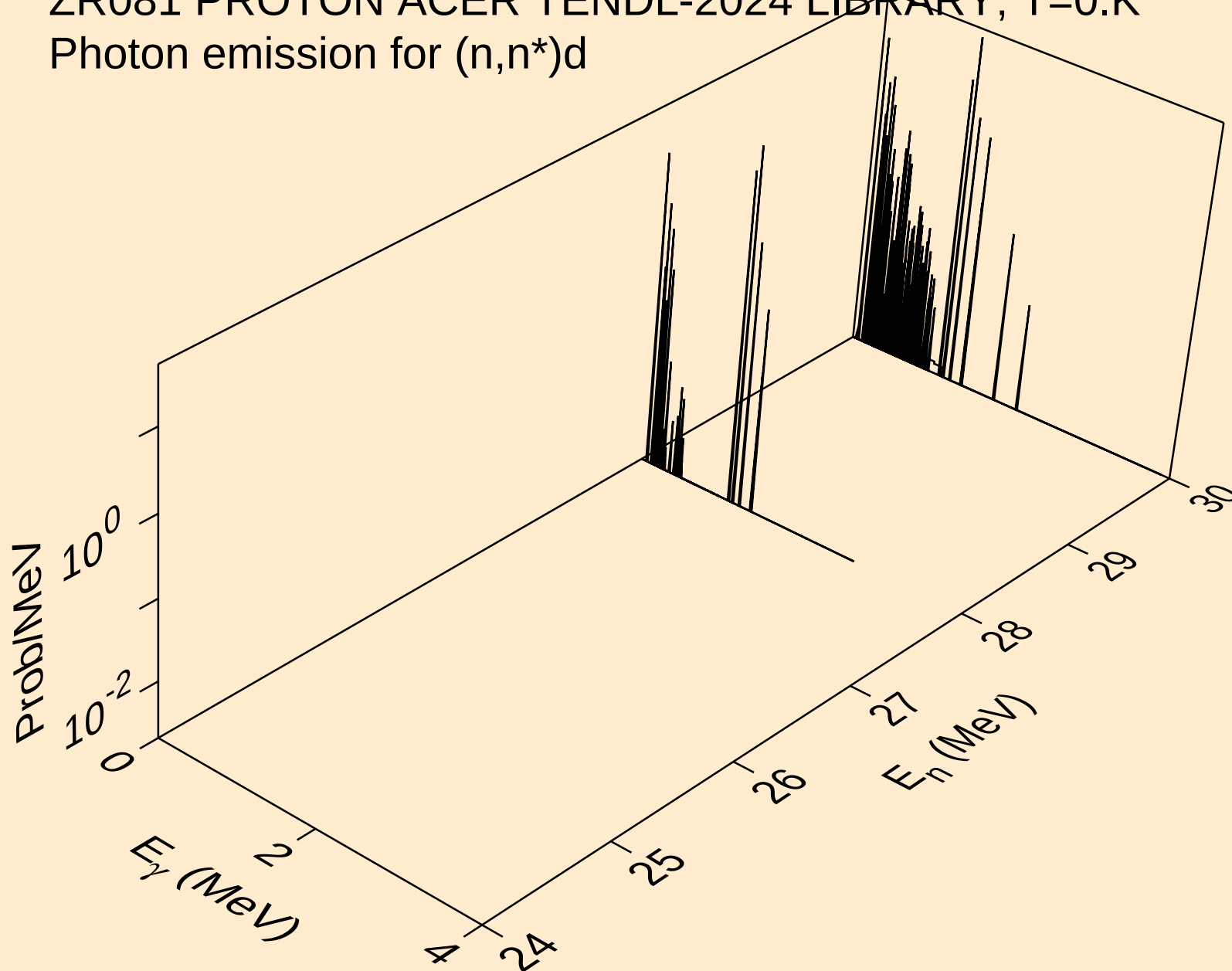
ZR081 PROTON ACER TENDL-2024 LIBRARY;  $T=0.K$

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



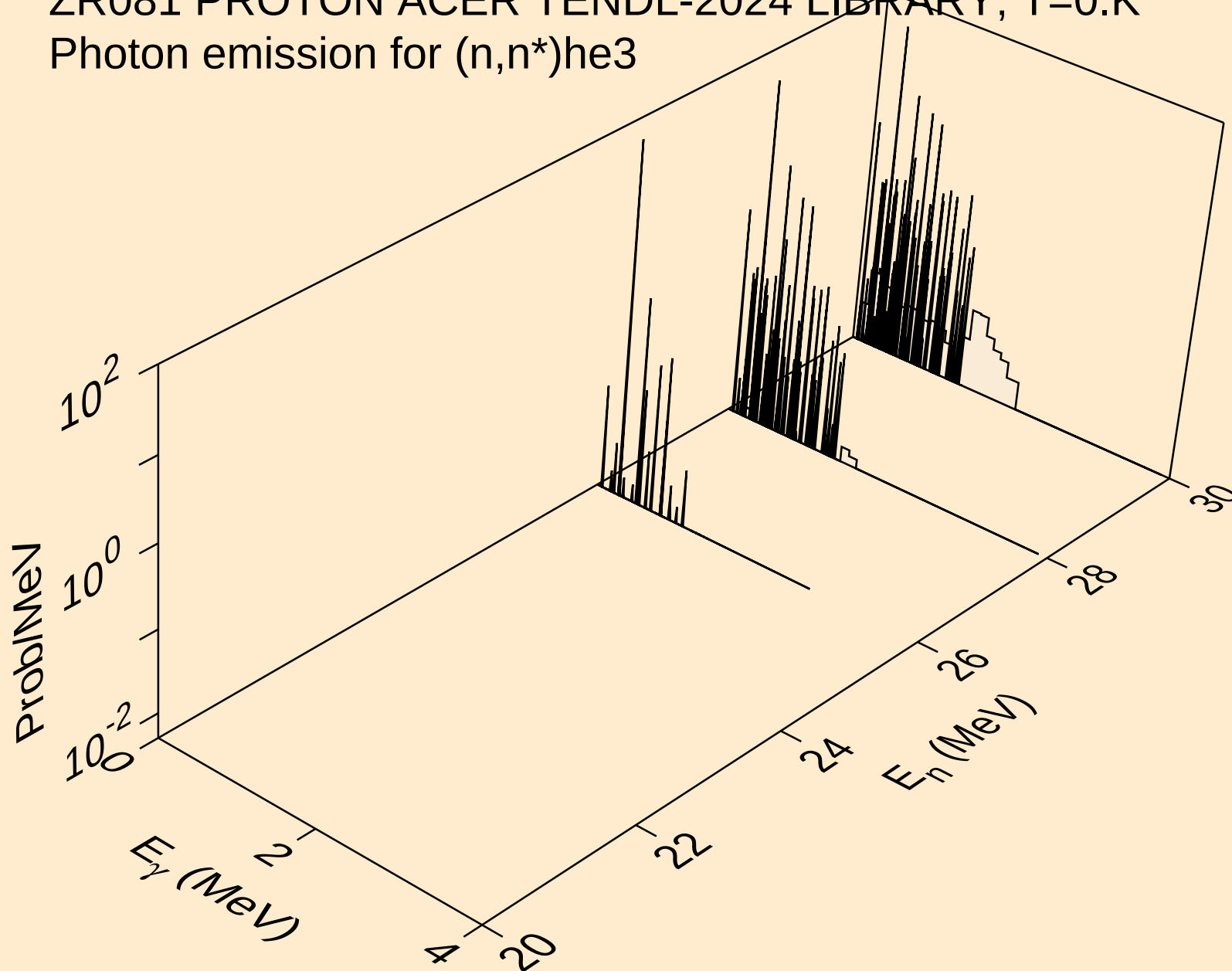
ZR081 PROTON ACER TENDL-2024 LIBRARY; T=0.K

Photon emission for (n,n\*)d

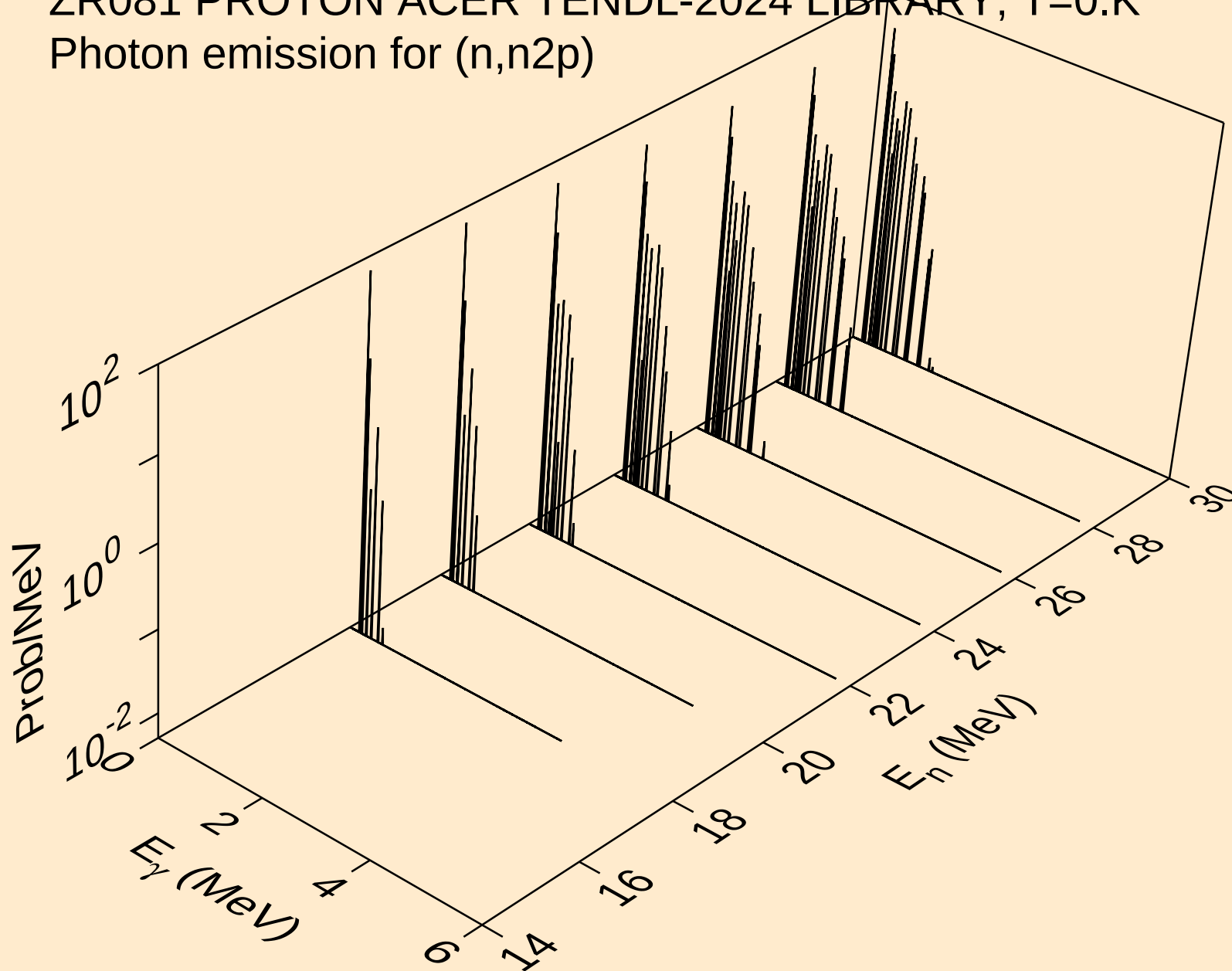


ZR081 PROTON ACER TENDL-2024 LIBRARY; T=0.K

Photon emission for (n,n\*)he3

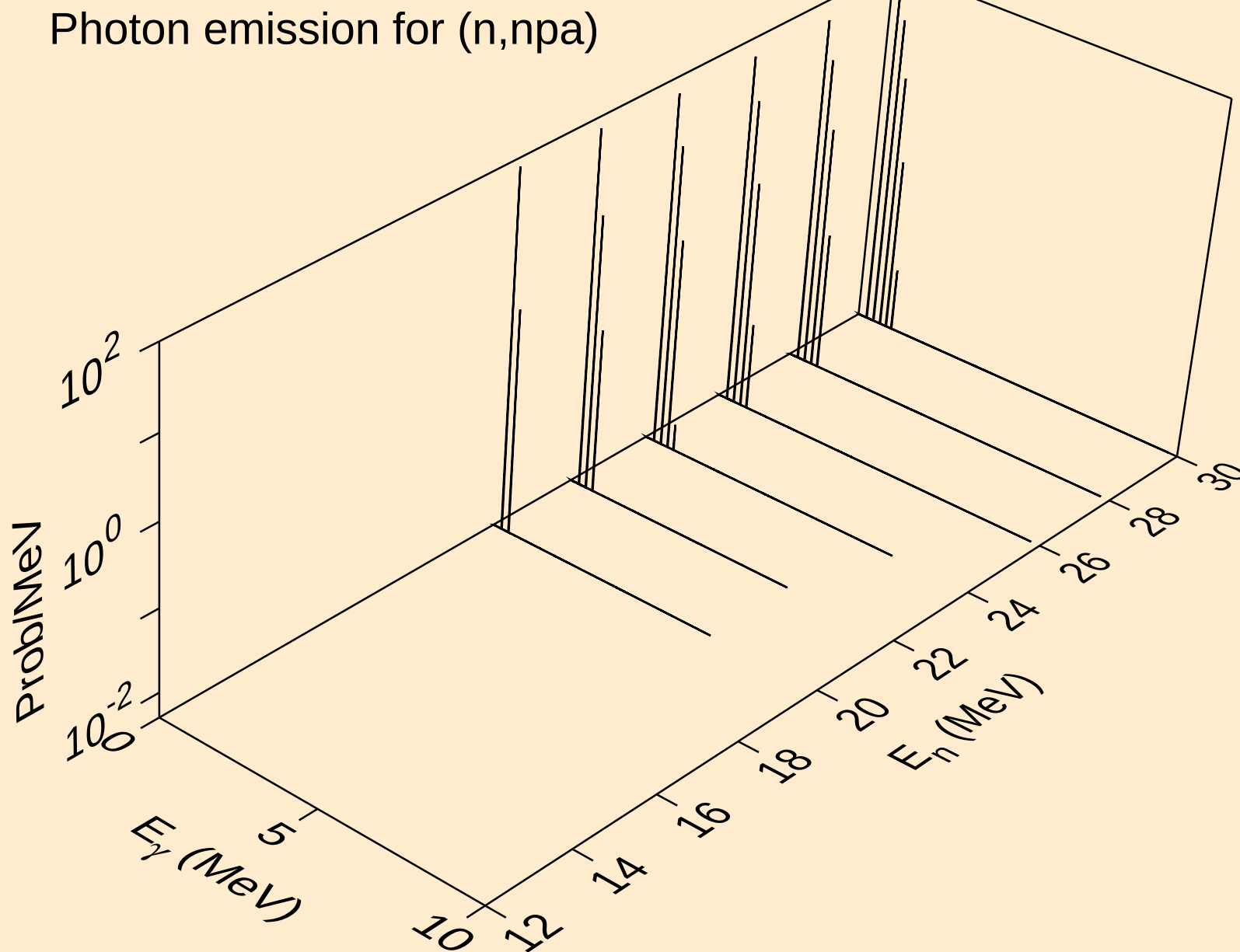


ZR081 PROTON ACER TENDL-2024 LIBRARY;  $T=0.K$   
Photon emission for (n,n2p)

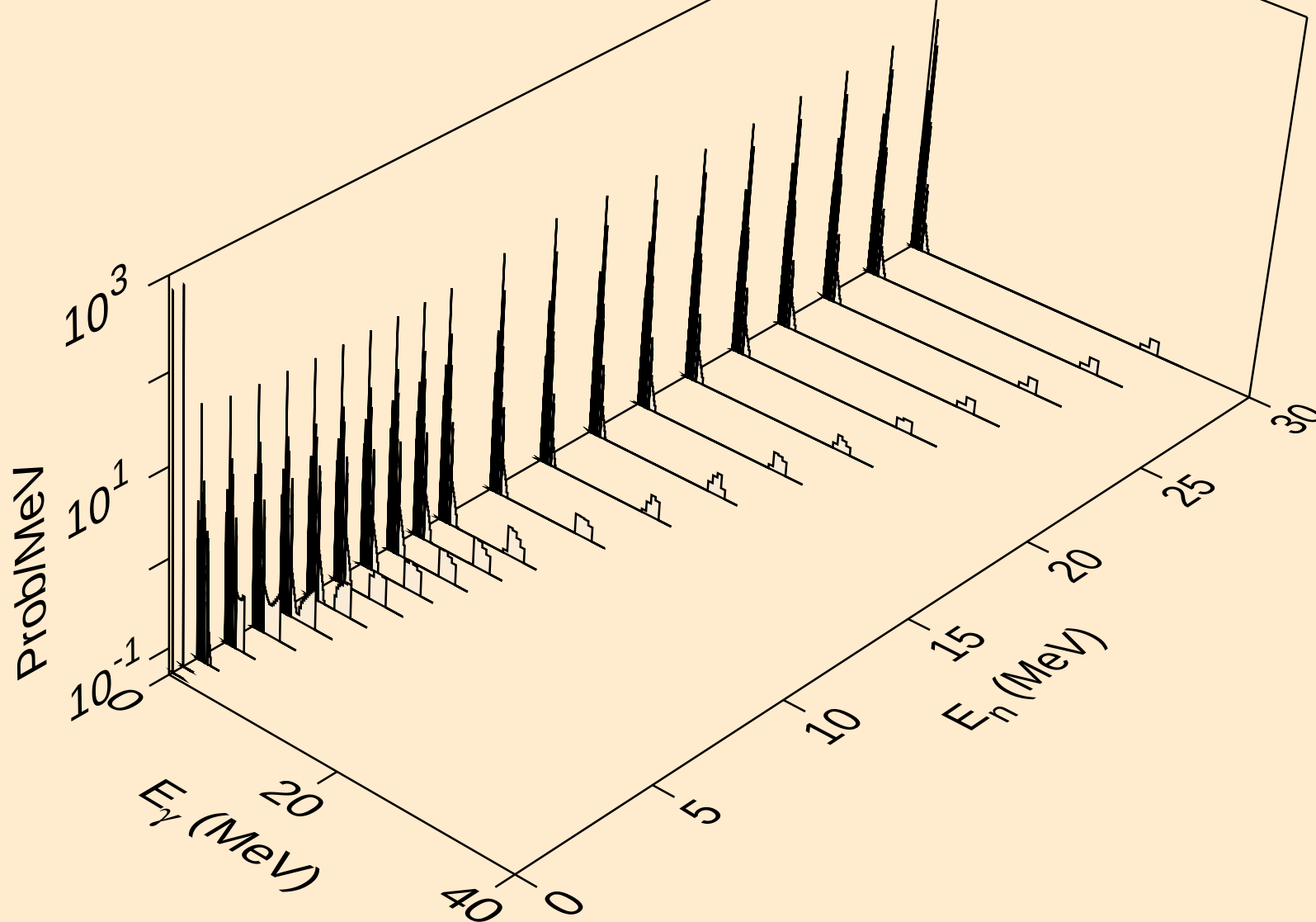


ZR081 PROTON ACER TENDL-2024 LIBRARY; T=0.K

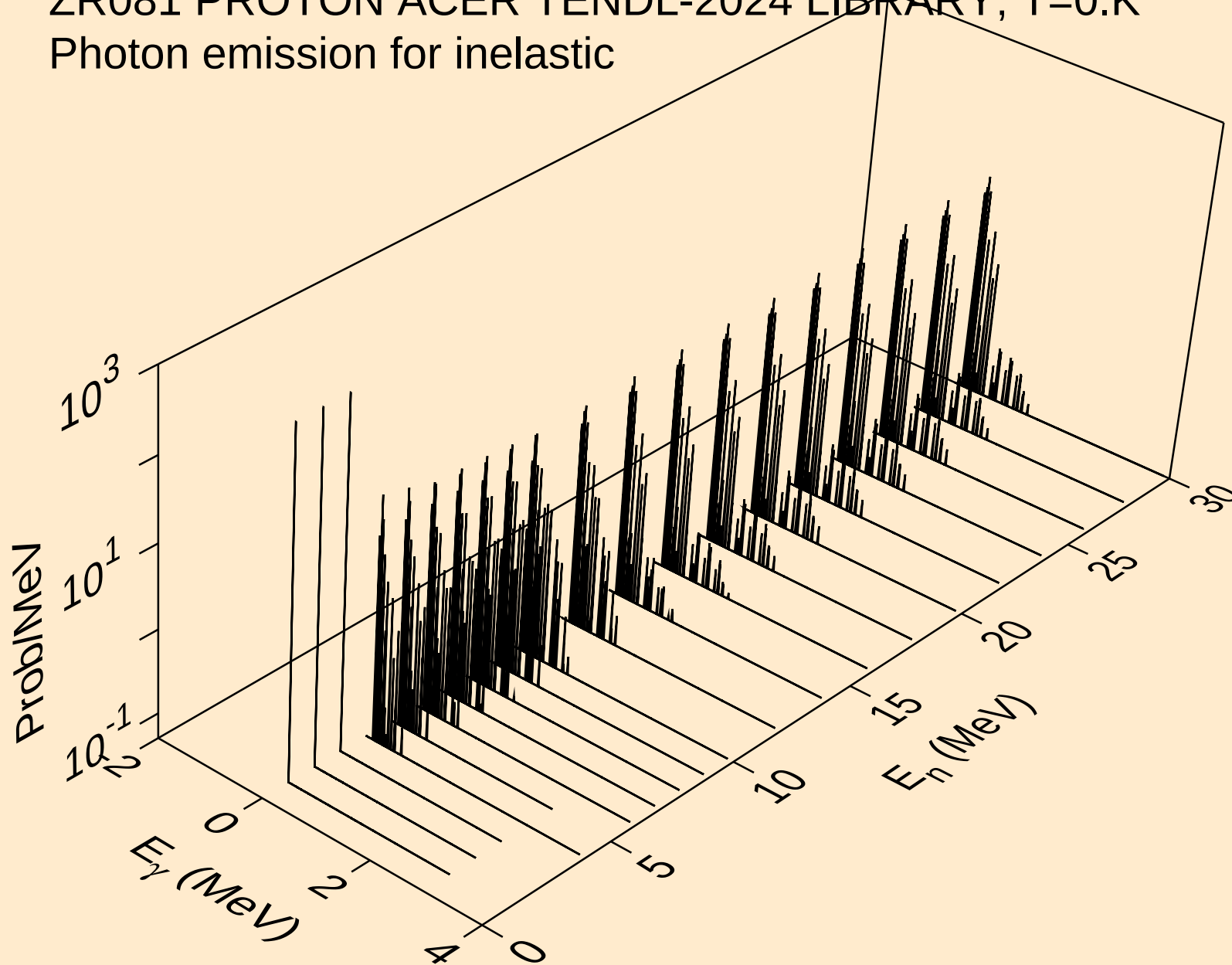
Photon emission for (n,npa)



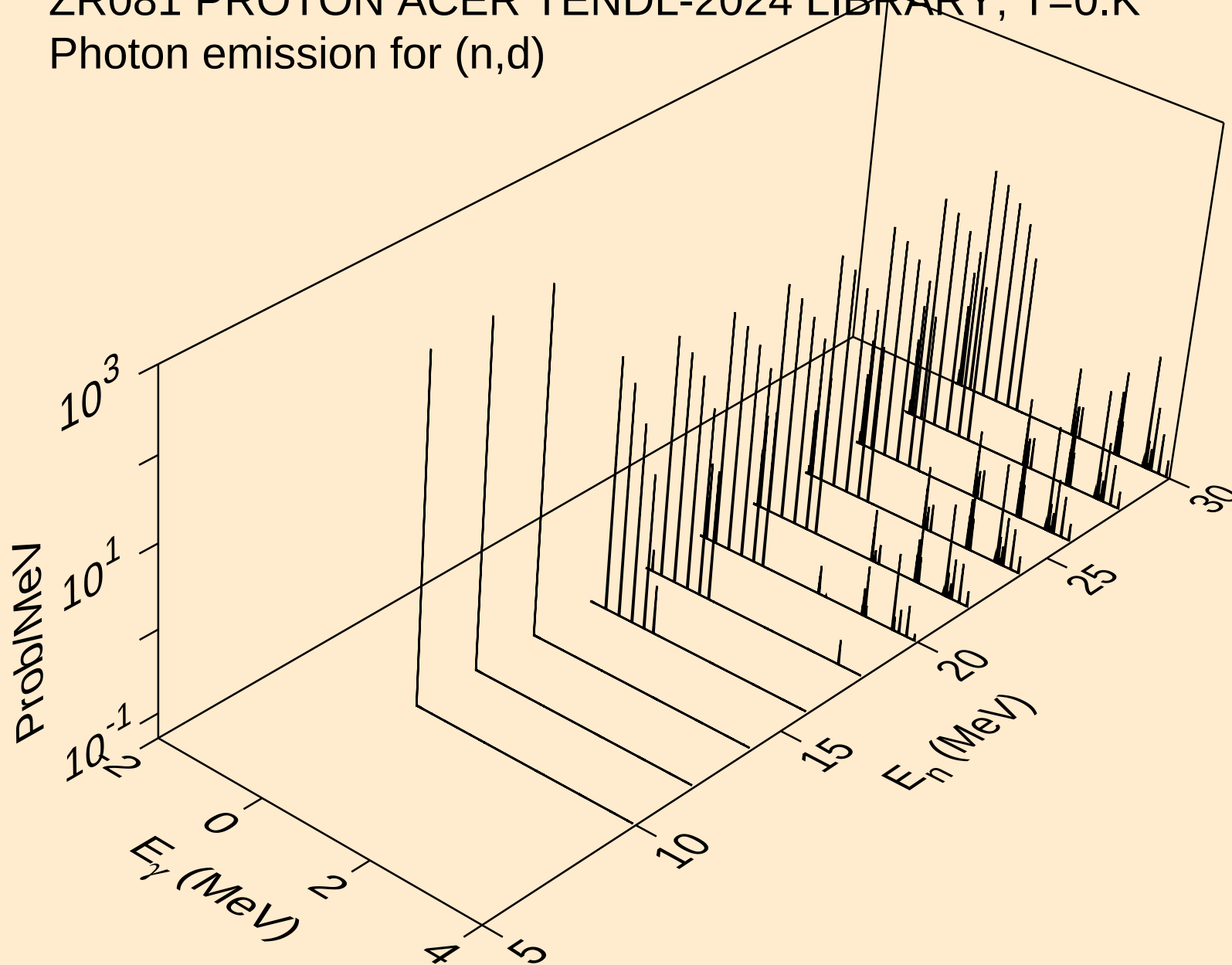
ZR081 PROTON ACER TENDL-2024 LIBRARY;  $T=0.K$   
Photon emission for (n,gma)



ZR081 PROTON ACER TENDL-2024 LIBRARY;  $T=0.K$   
Photon emission for inelastic

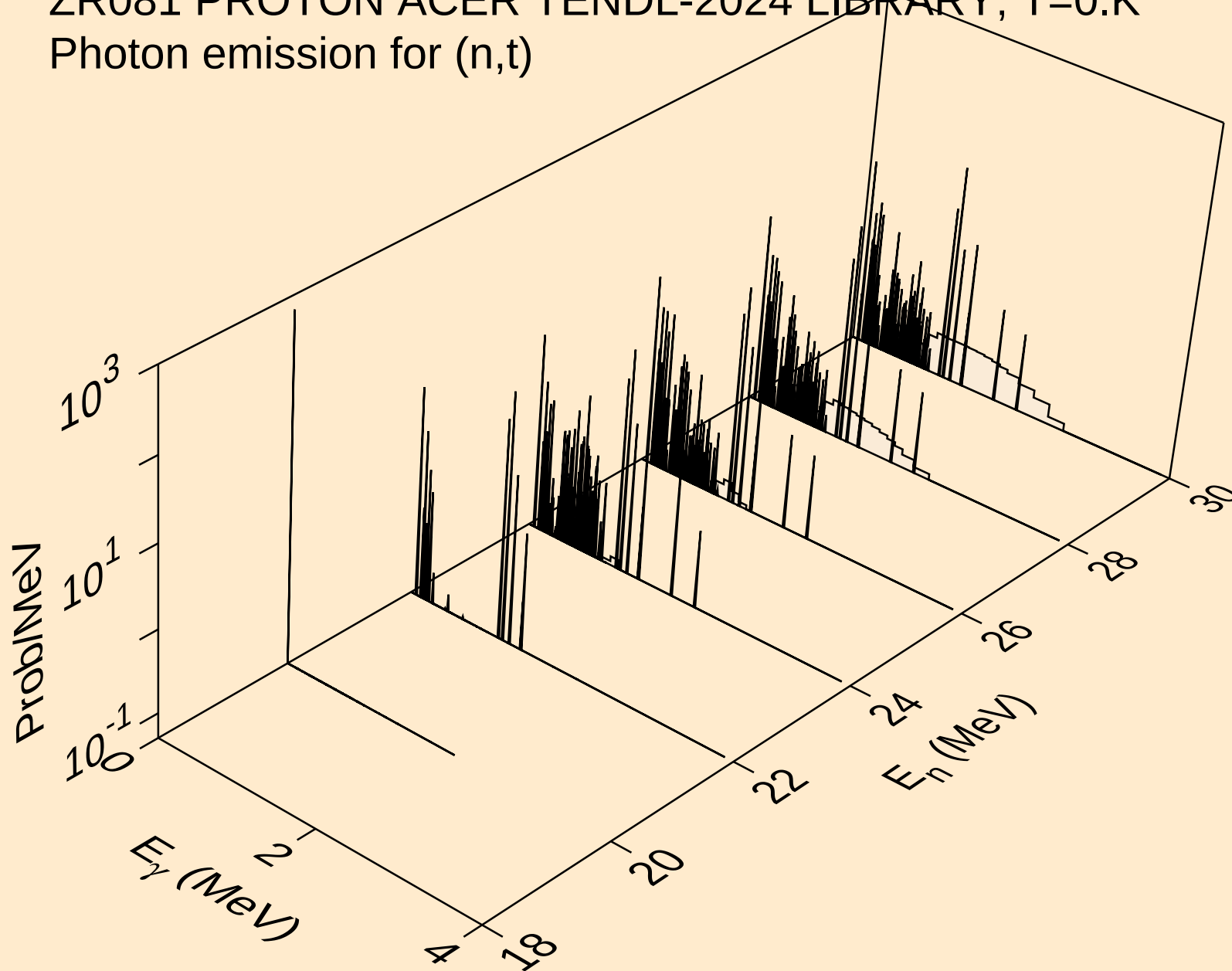


ZR081 PROTON ACER TENDL-2024 LIBRARY;  $T=0.K$   
Photon emission for (n,d)

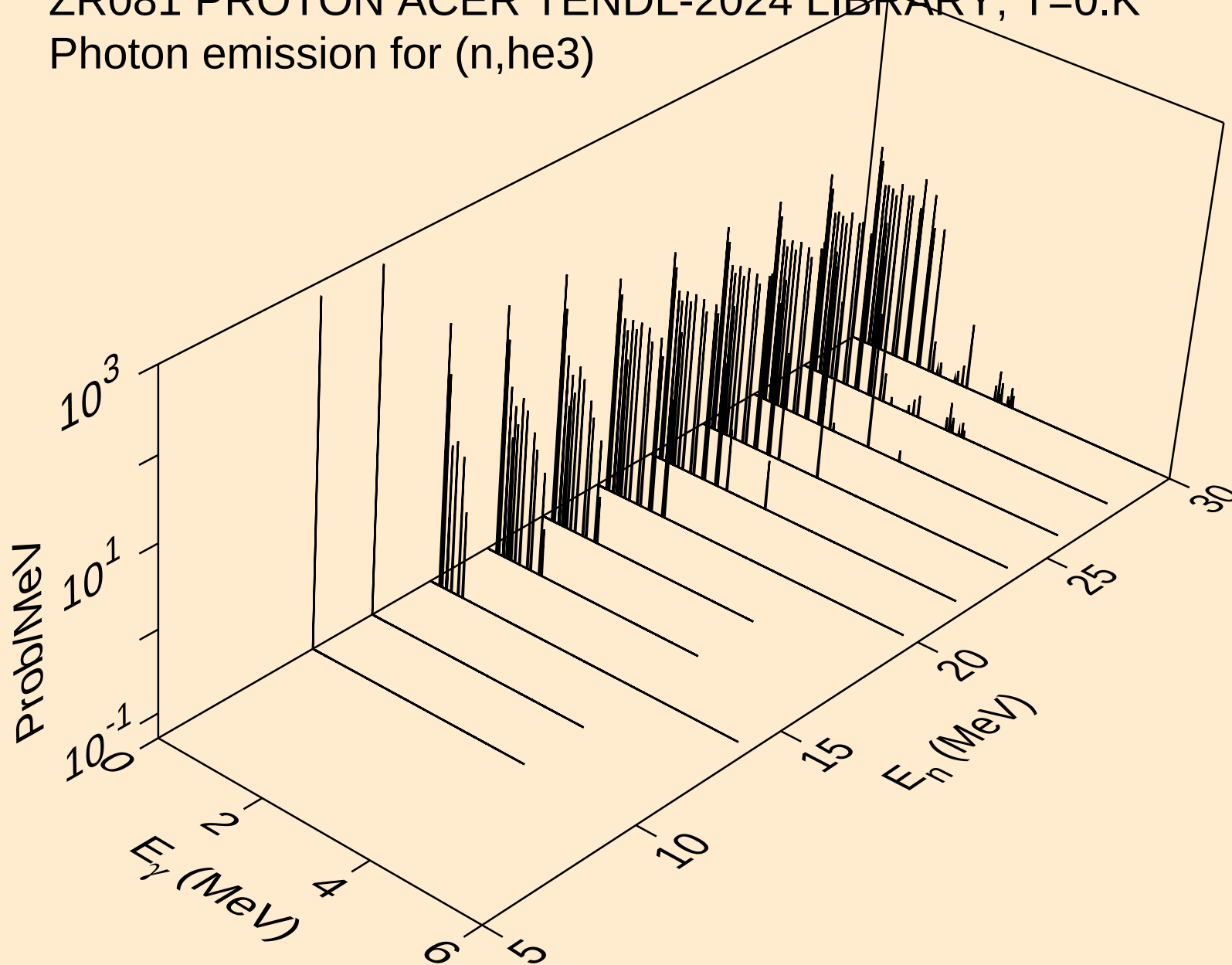


ZR081 PROTON ACER TENDL-2024 LIBRARY;  $T=0.K$

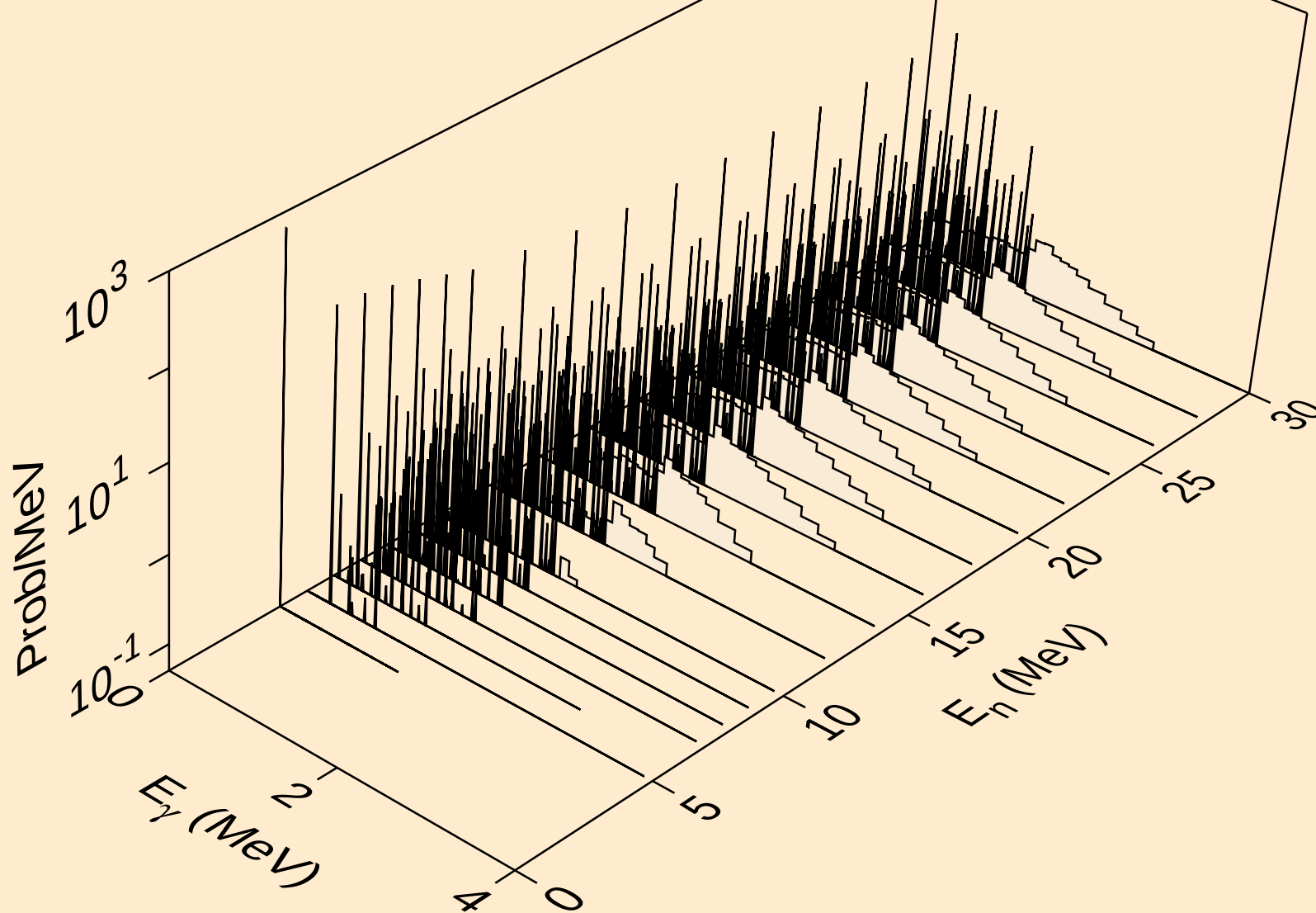
Photon emission for (n,t)



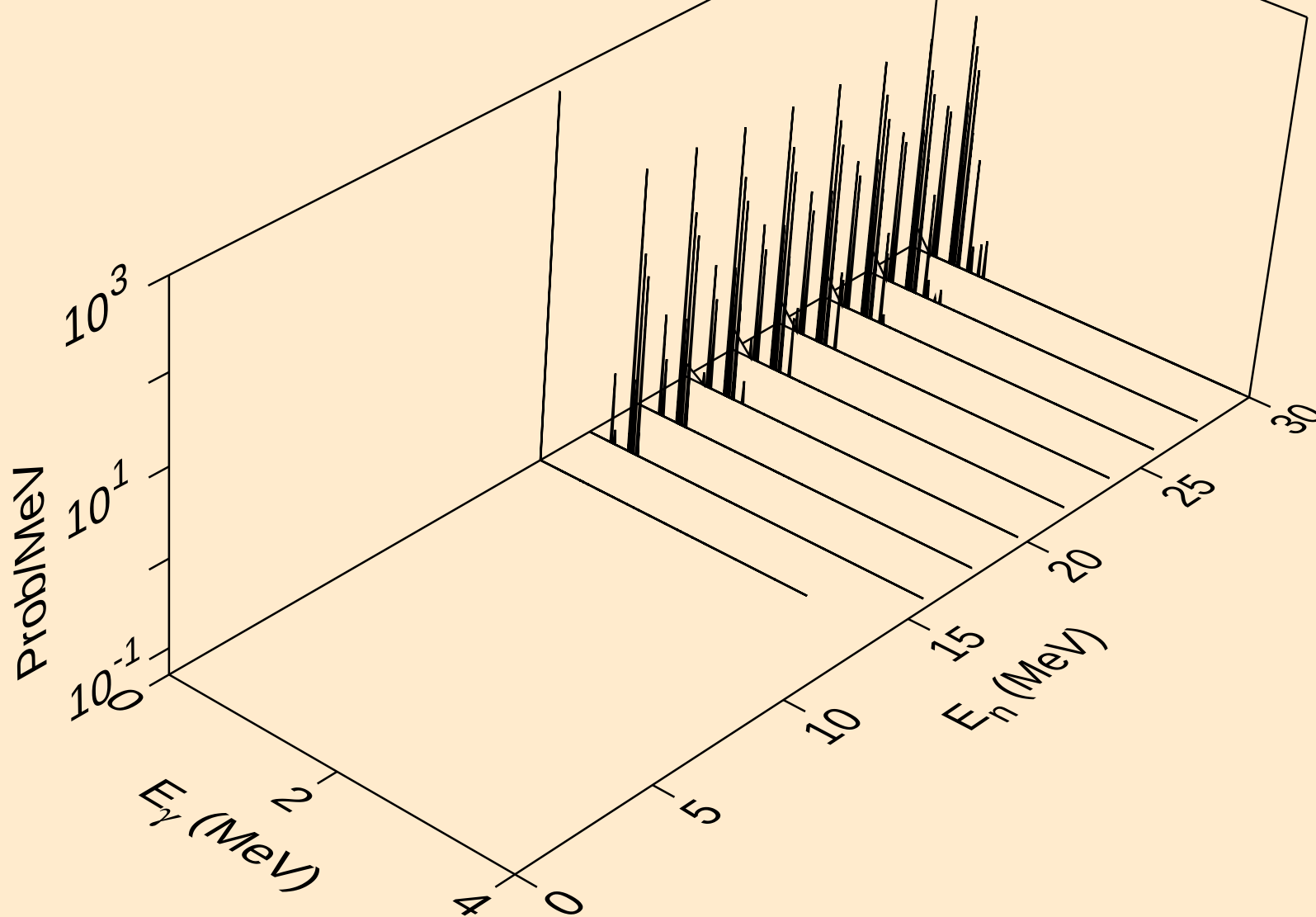
ZR081 PROTON ACER TENDL-2024 LIBRARY;  $T=0.K$   
Photon emission for (n,he3)



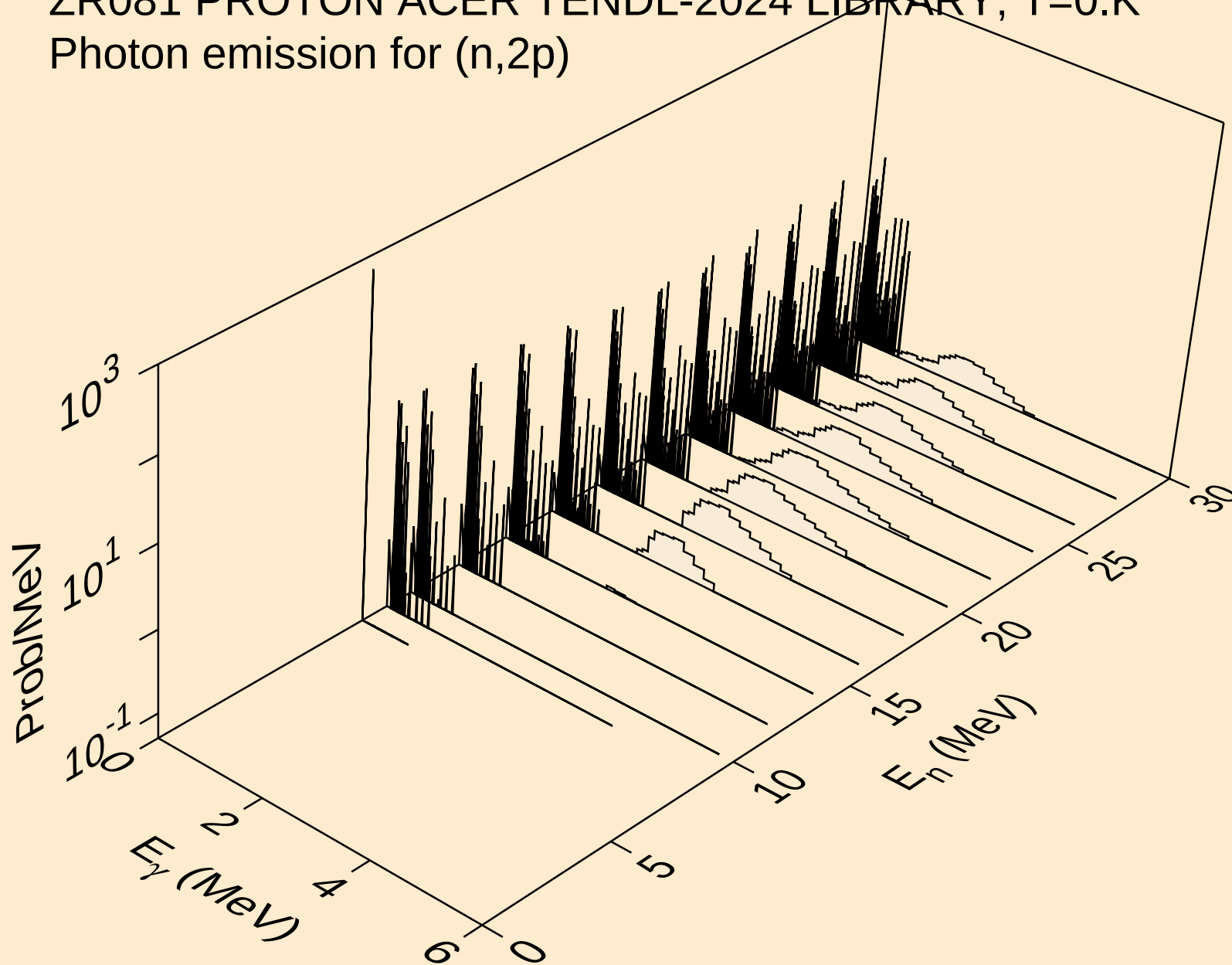
ZR081 PROTON ACER TENDL-2024 LIBRARY;  $T=0.K$   
Photon emission for (n,a)



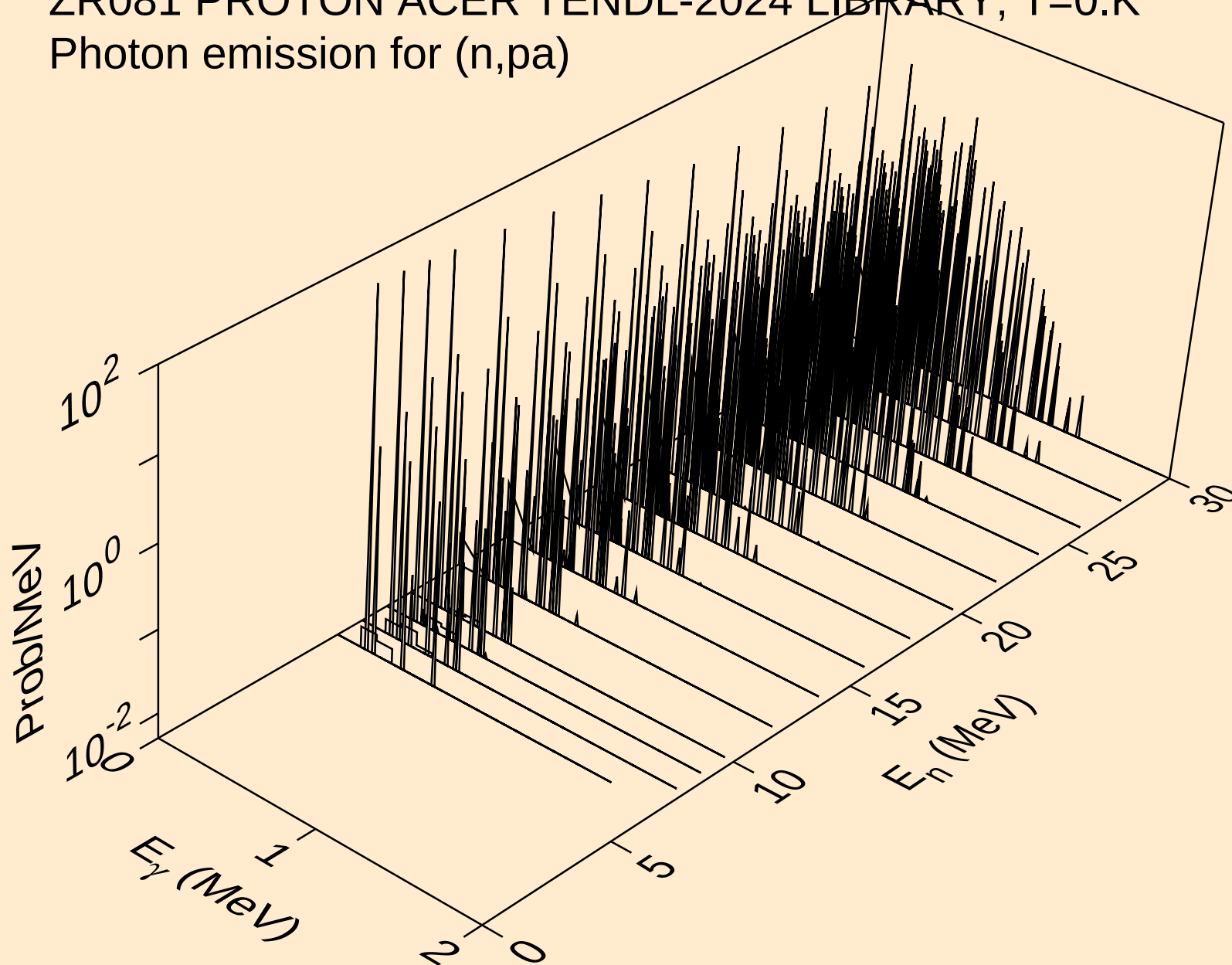
ZR081 PROTON ACER TENDL-2024 LIBRARY;  $T=0.K$   
Photon emission for (n,2a)



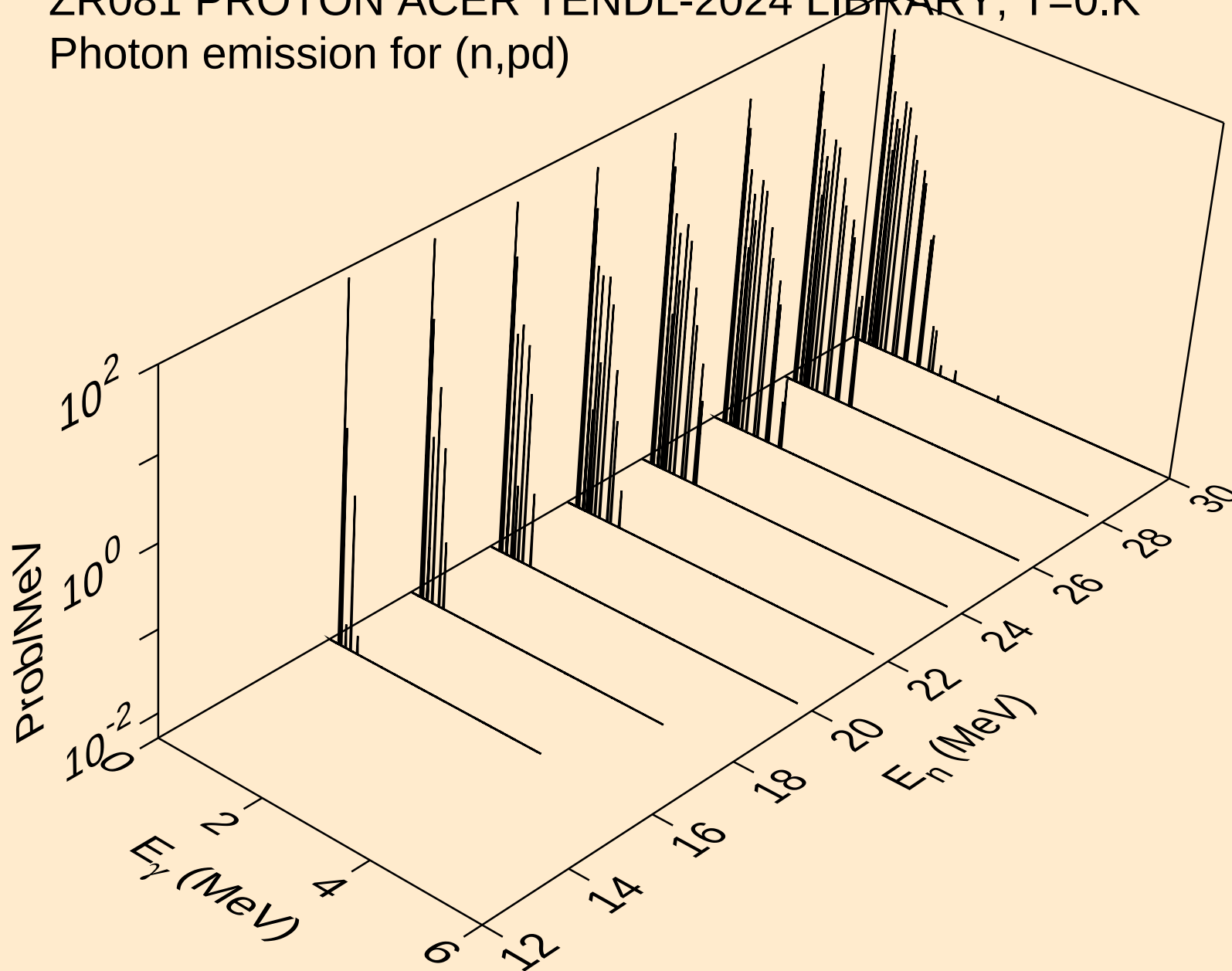
ZR081 PROTON ACER TENDL-2024 LIBRARY;  $T=0.K$   
Photon emission for (n,2p)



ZR081 PROTON ACER TENDL-2024 LIBRARY;  $T=0.K$   
Photon emission for (n,p $\alpha$ )

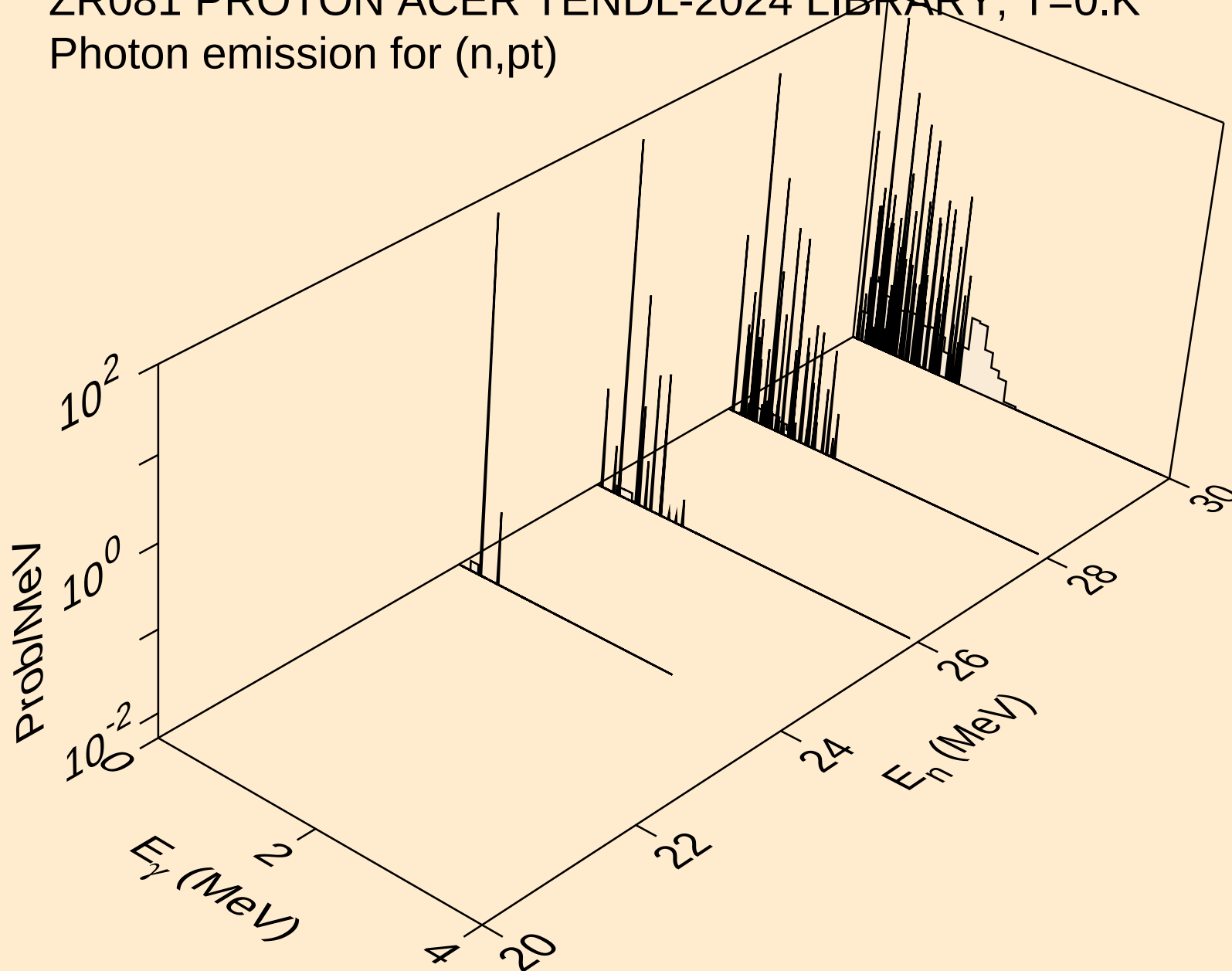


ZR081 PROTON ACER TENDL-2024 LIBRARY;  $T=0.K$   
Photon emission for (n,pd)



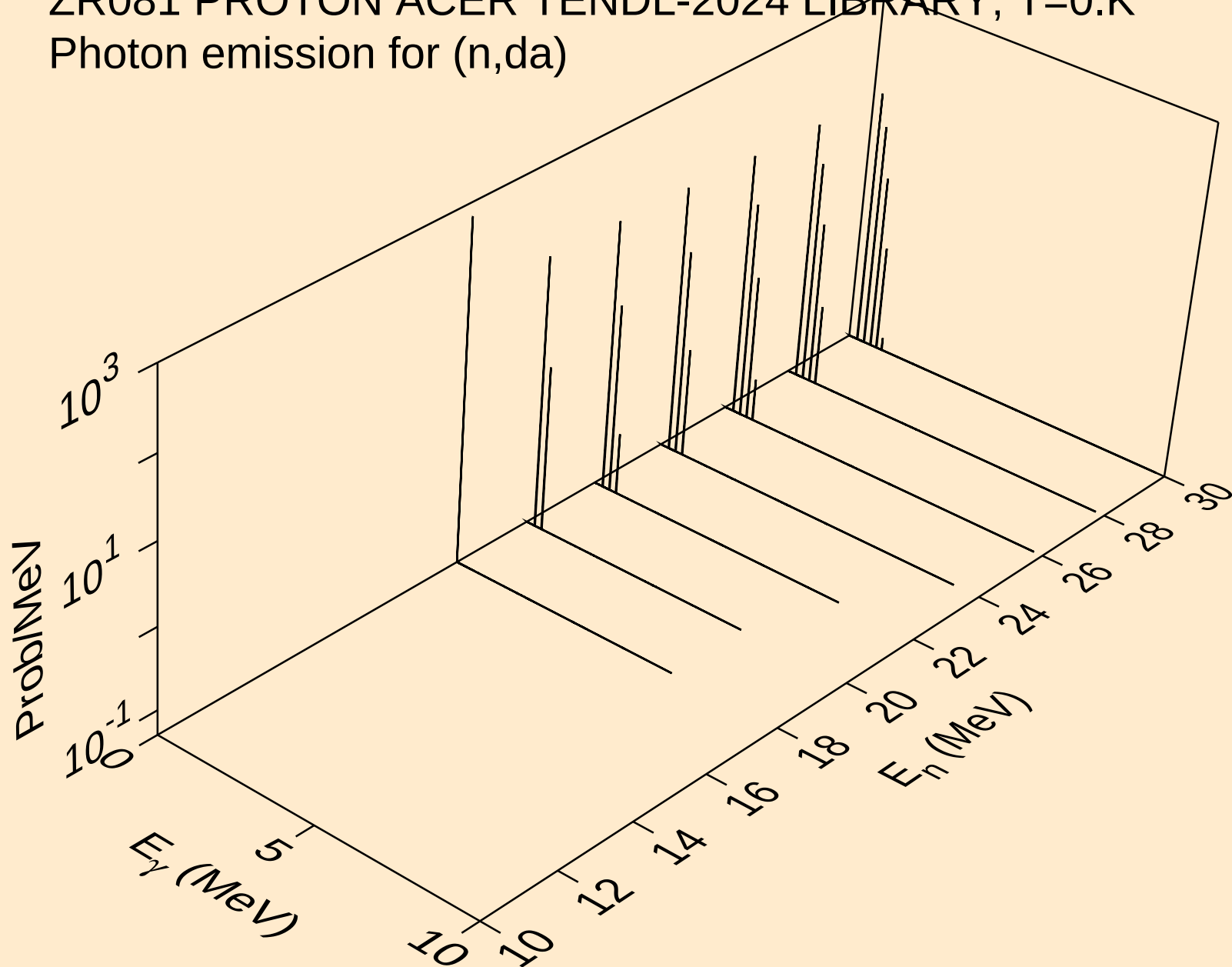
ZR081 PROTON ACER TENDL-2024 LIBRARY; T=0.K

Photon emission for (n,pt)



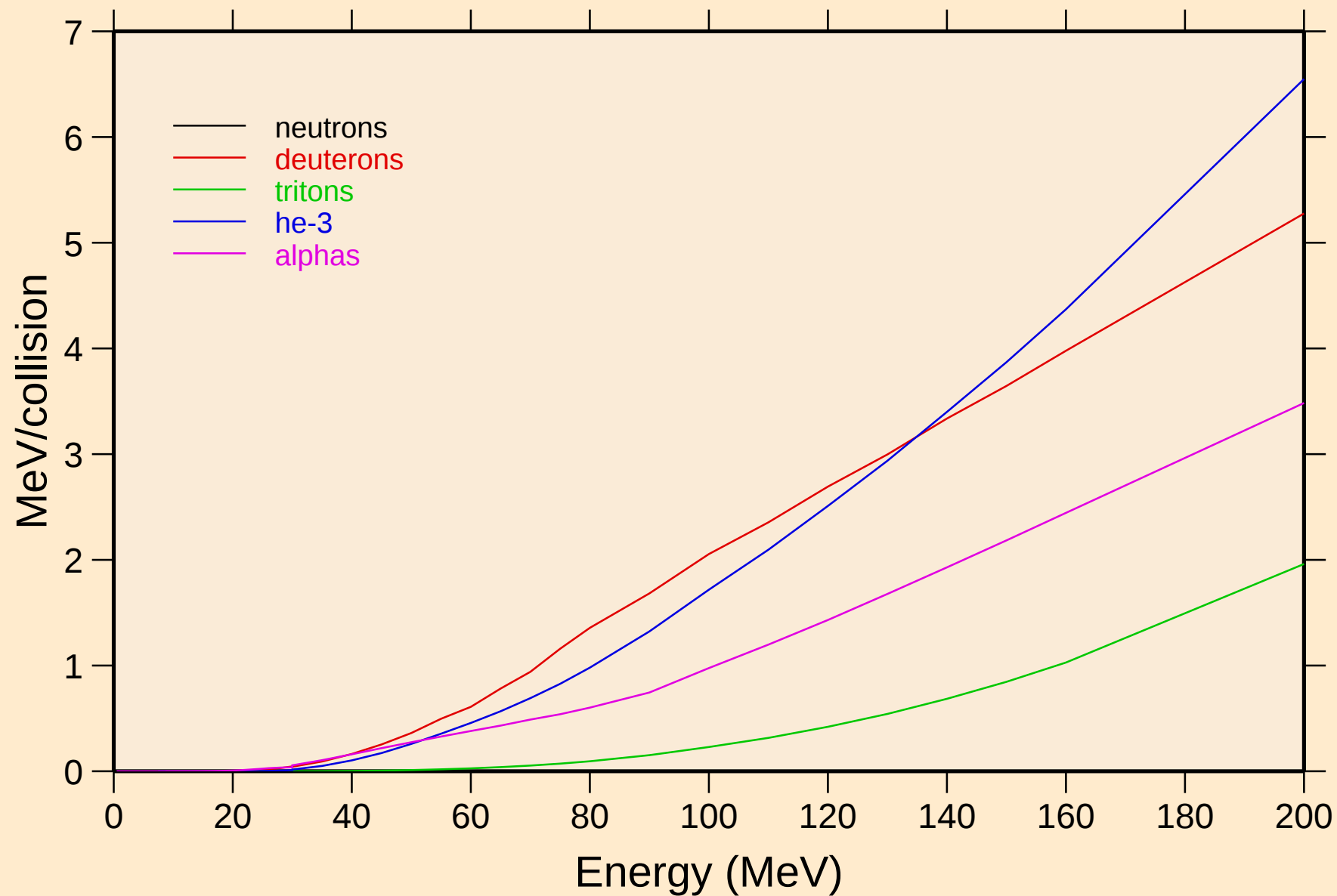
ZR081 PROTON ACER TENDL-2024 LIBRARY; T=0.K

Photon emission for (n,da)



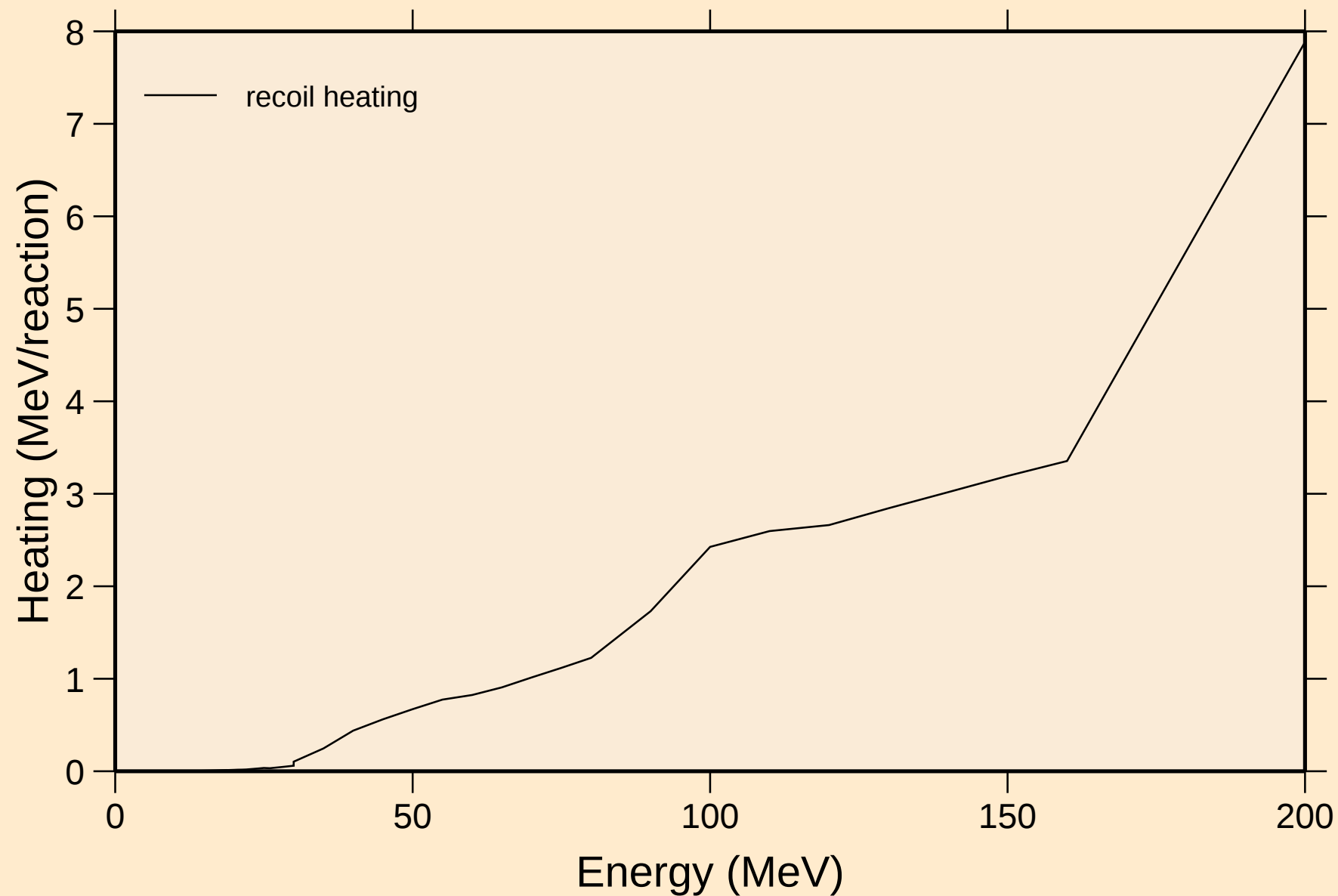
# ZR081 PROTON ACER TENDL-2024 LIBRARY; T=0.K

## Particle heating contributions



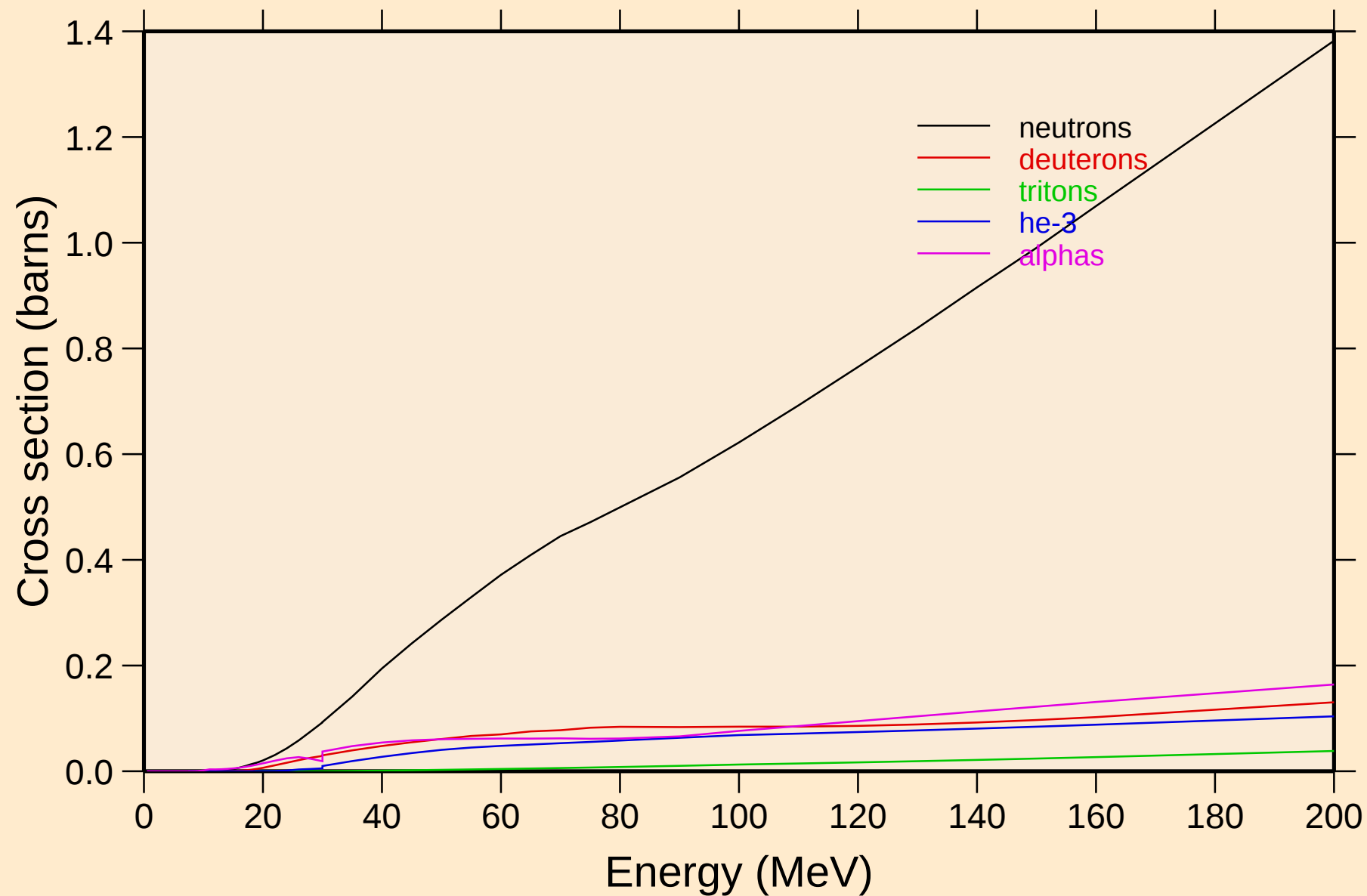
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Recoil Heating

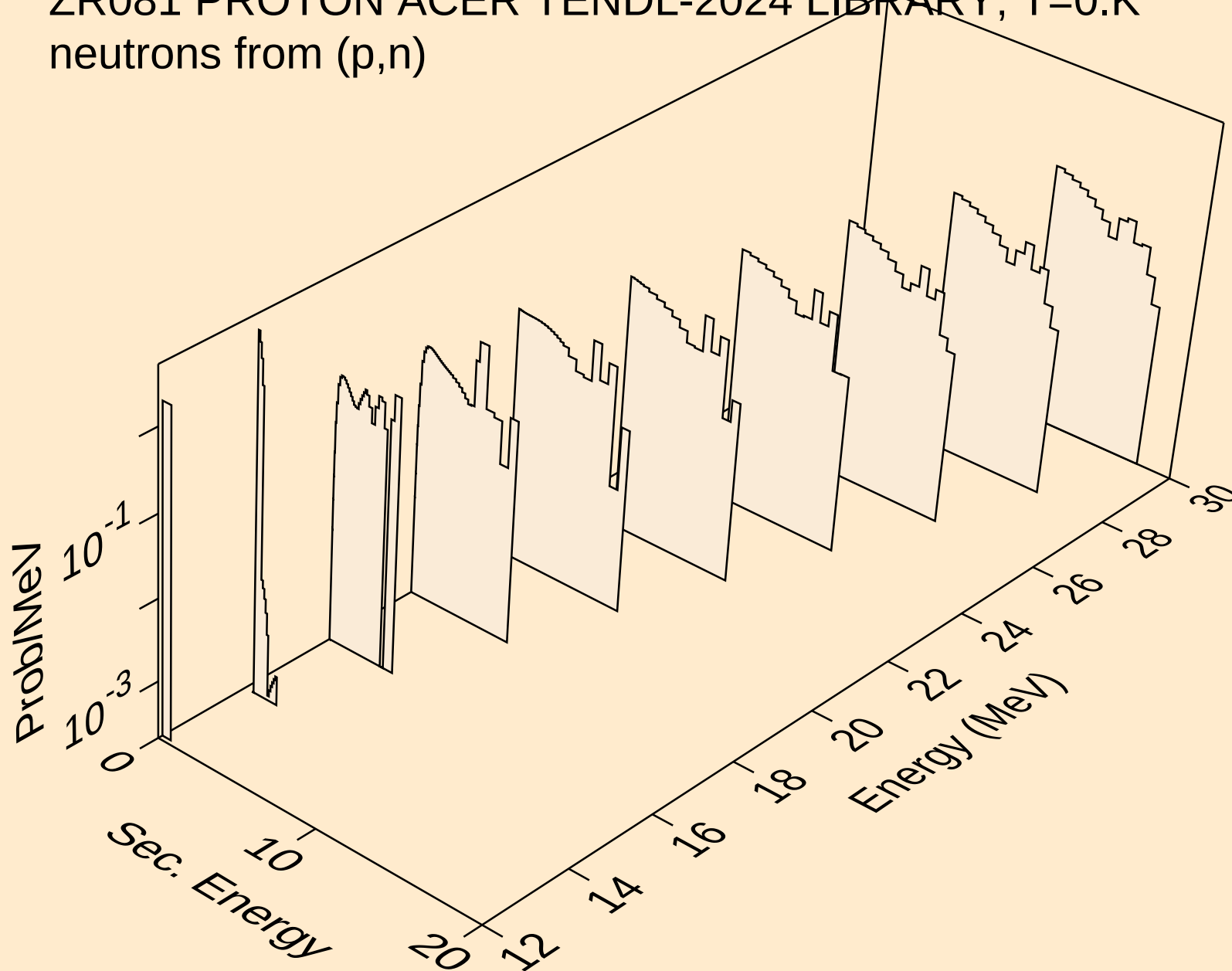


# ZR081 PROTON ACER TENDL-2024 LIBRARY; T=0.K

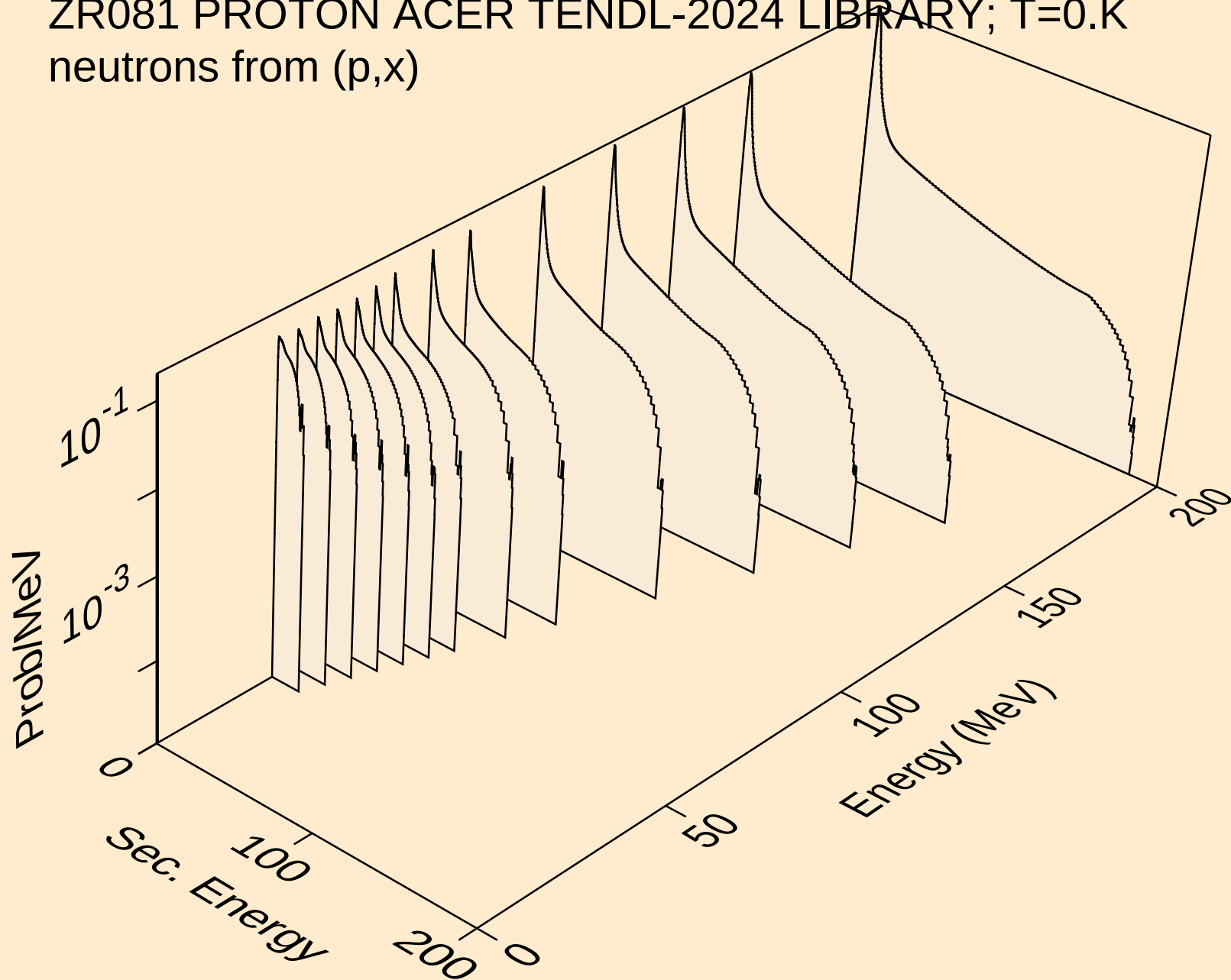
## Particle production cross sections



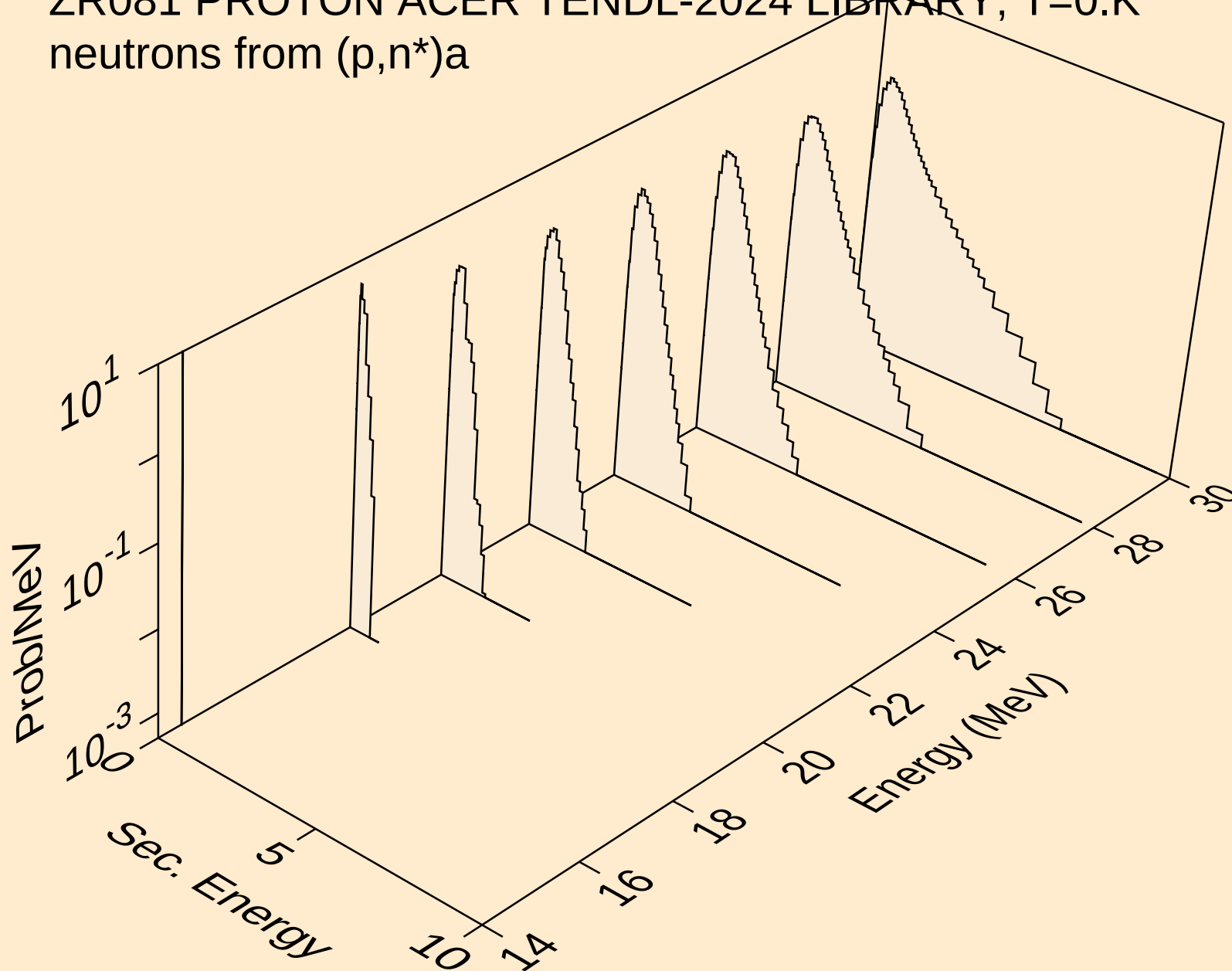
ZR081 PROTON ACER TENDL-2024 LIBRARY; T=0.K  
neutrons from (p,n)



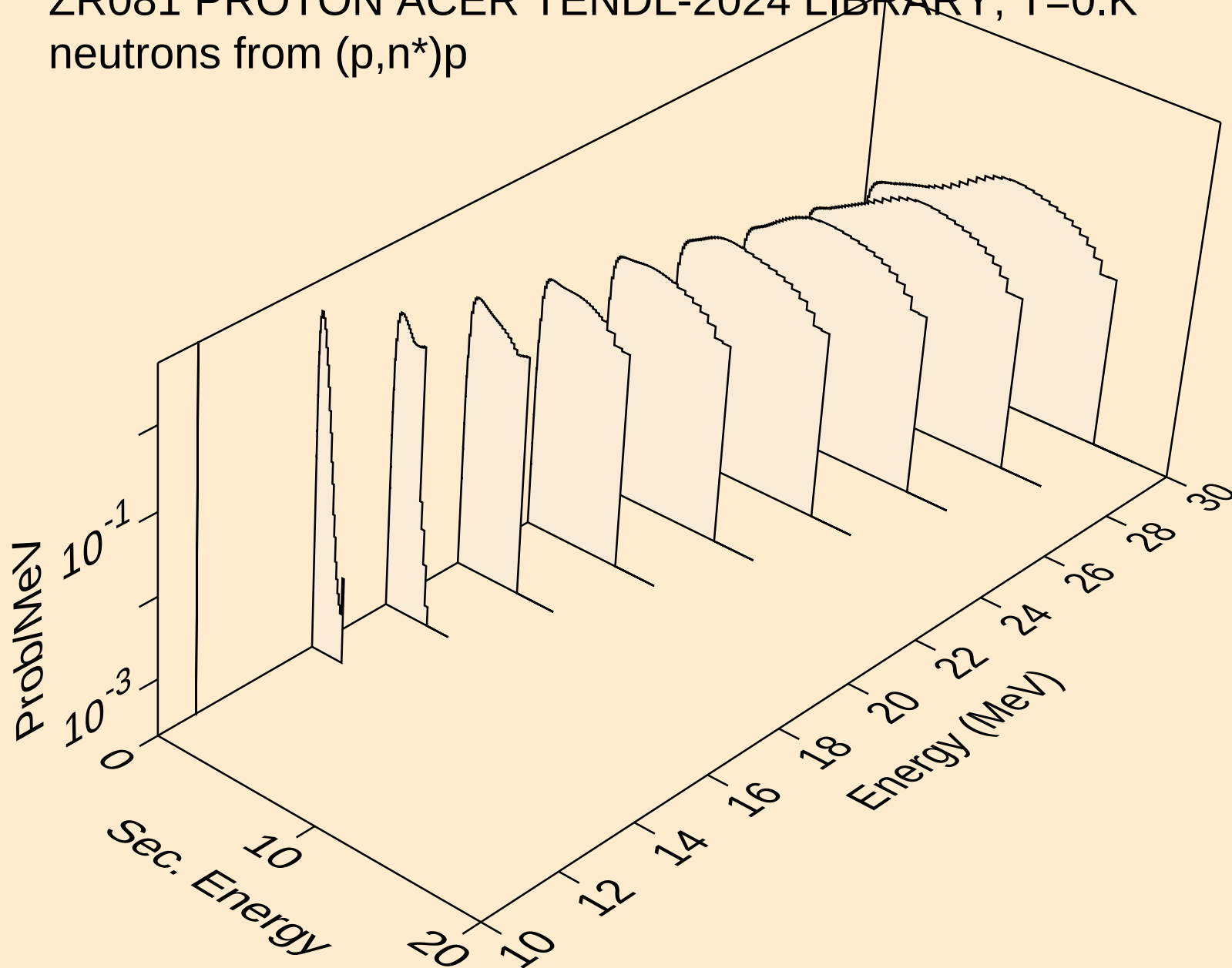
ZR081 PROTON ACER TENDL-2024 LIBRARY; T=0.K  
neutrons from (p,x)



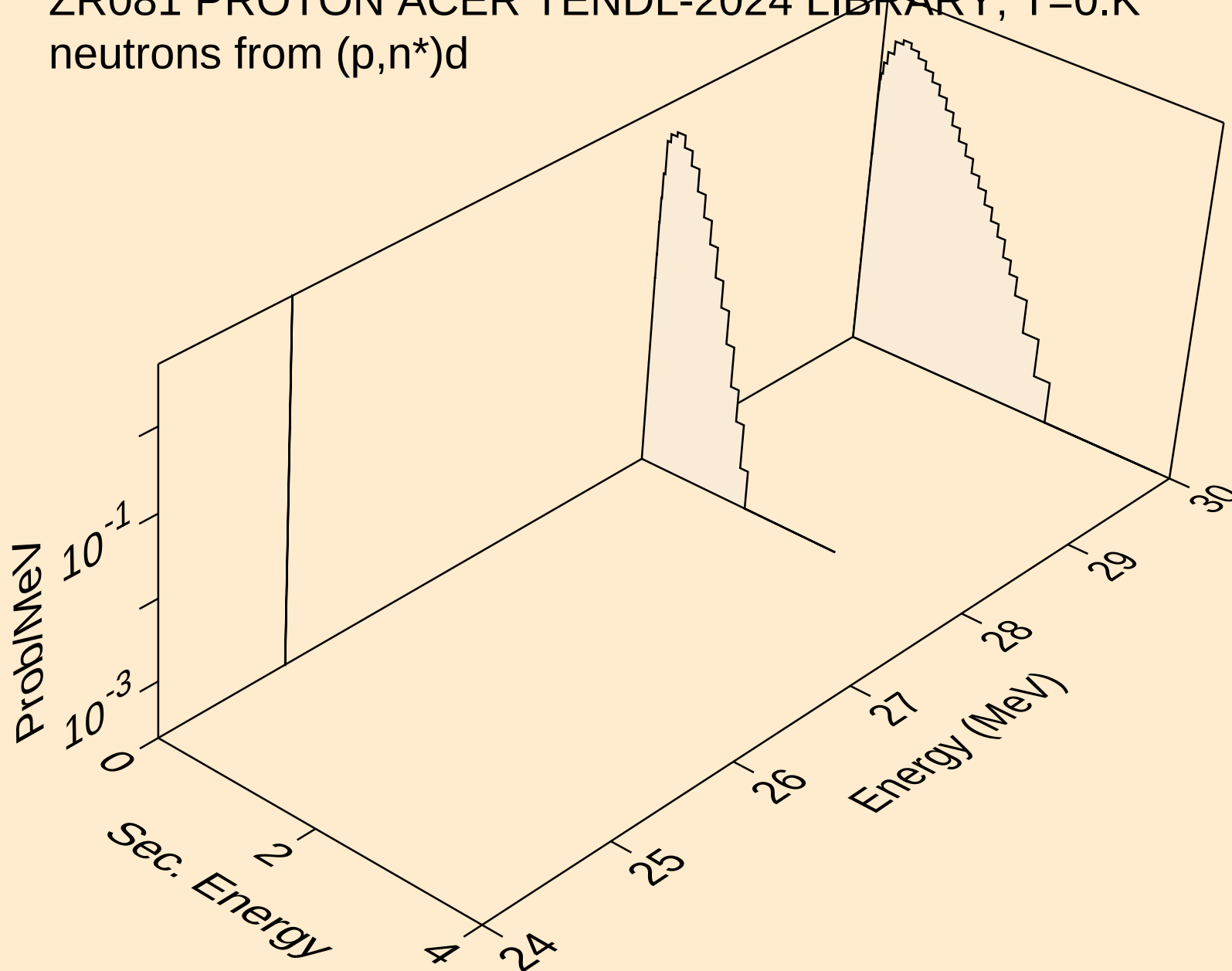
ZR081 PROTON ACER TENDL-2024 LIBRARY; T=0.K  
neutrons from (p,n\*)a



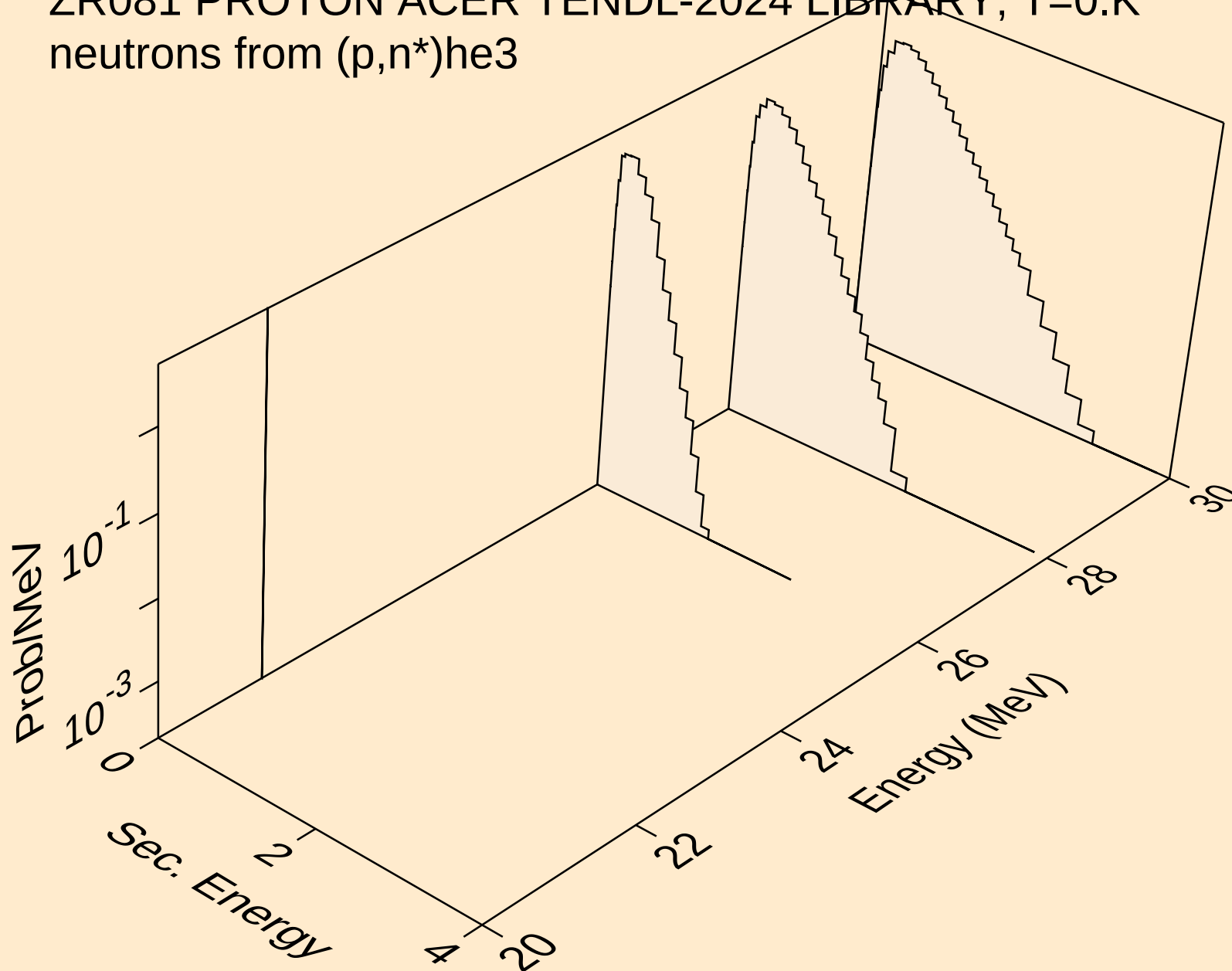
ZR081 PROTON ACER TENDL-2024 LIBRARY; T=0.K  
neutrons from (p,n\*)p



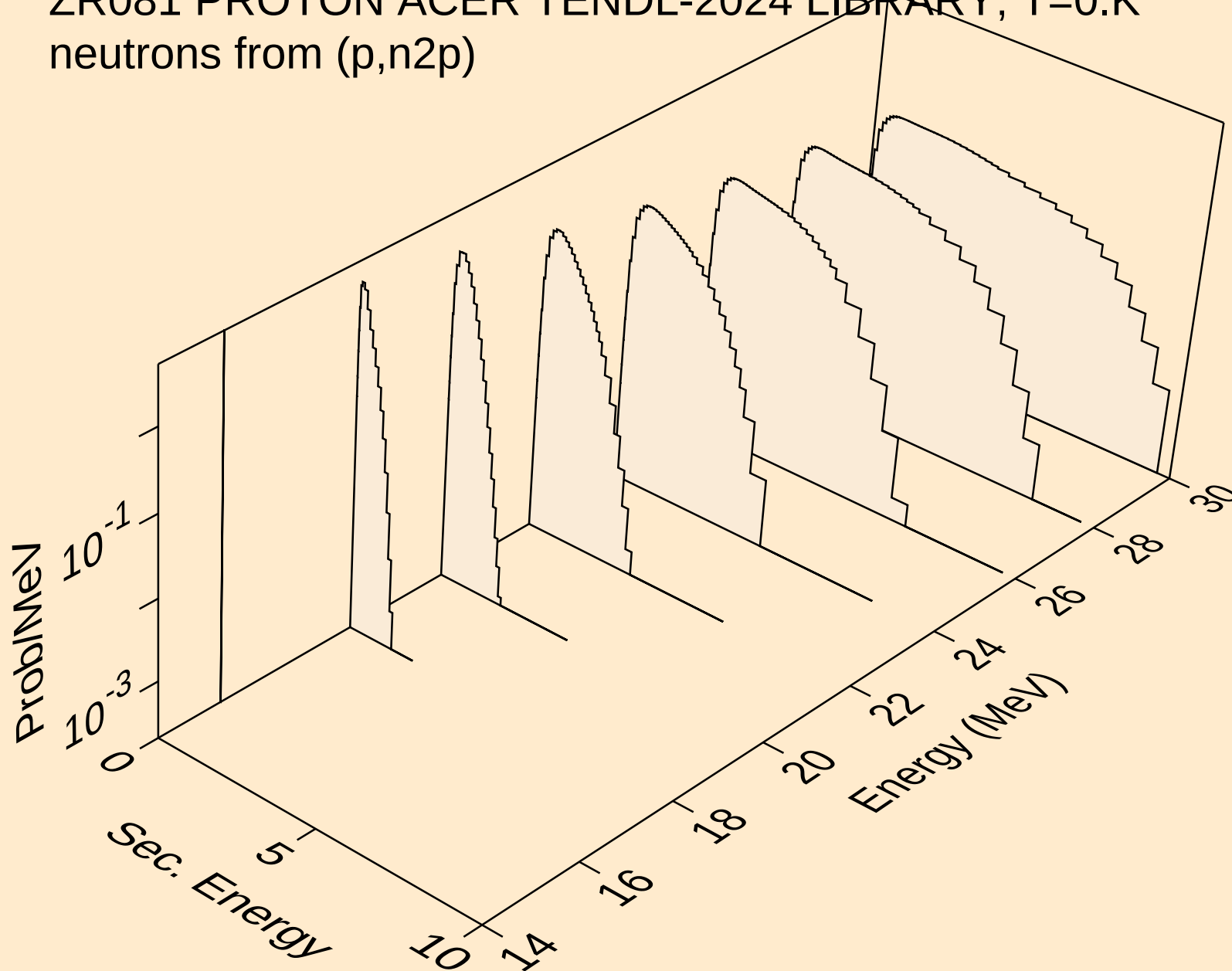
ZR081 PROTON ACER TENDL-2024 LIBRARY; T=0.K  
neutrons from (p,n\*)d



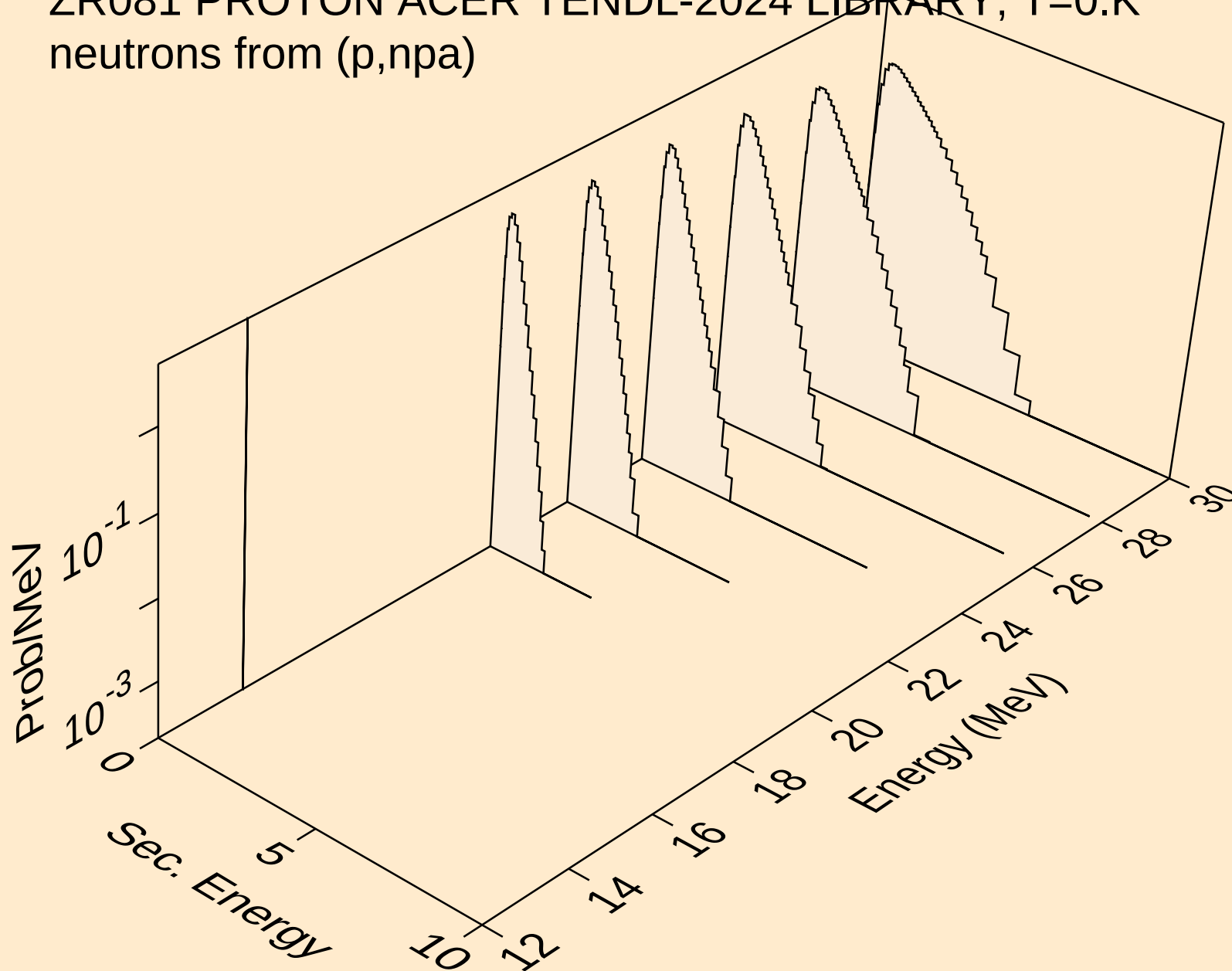
ZR081 PROTON ACER TENDL-2024 LIBRARY; T=0.K  
neutrons from (p,n\*)he3



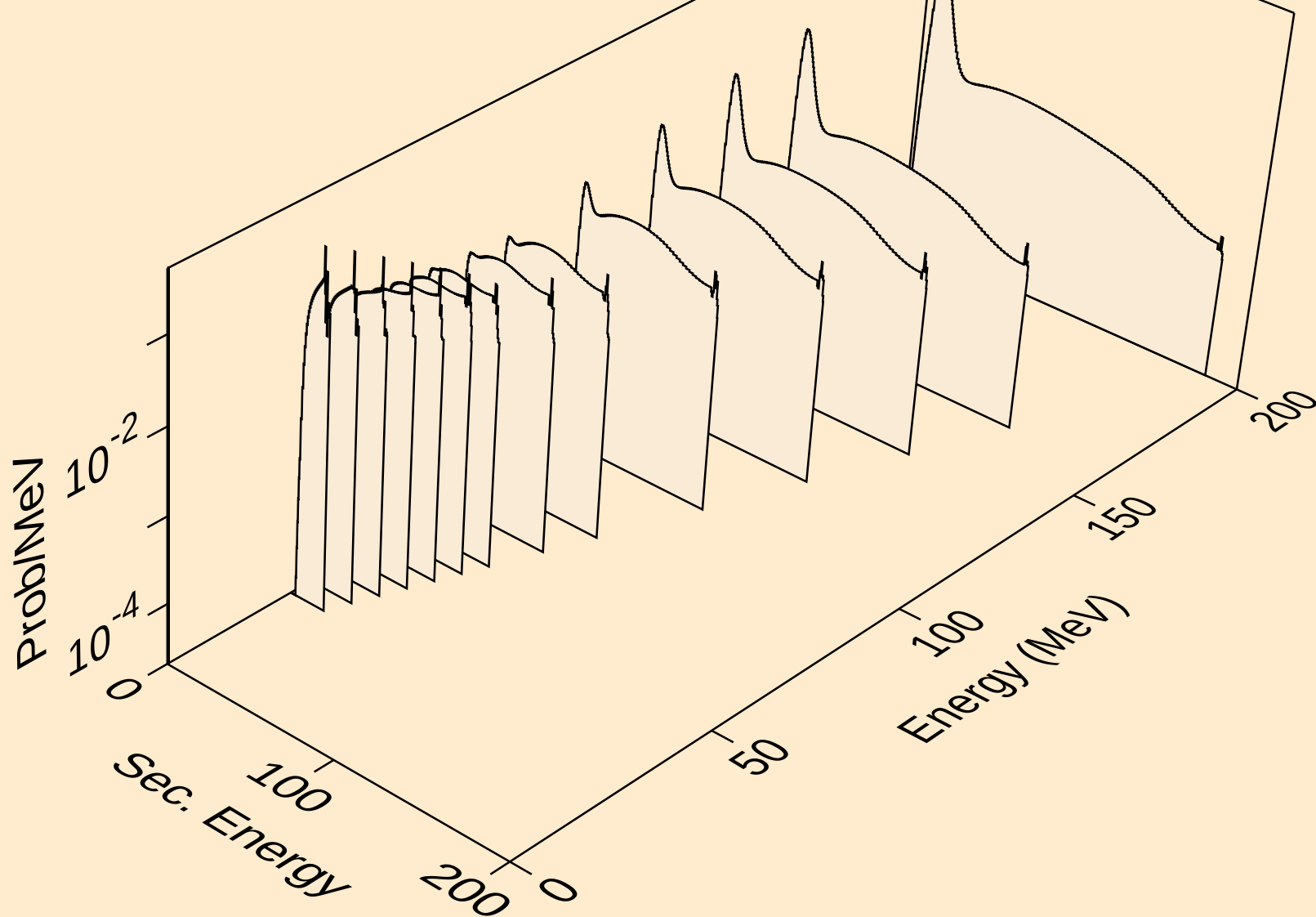
ZR081 PROTON ACER TENDL-2024 LIBRARY; T=0.K  
neutrons from (p,n2p)



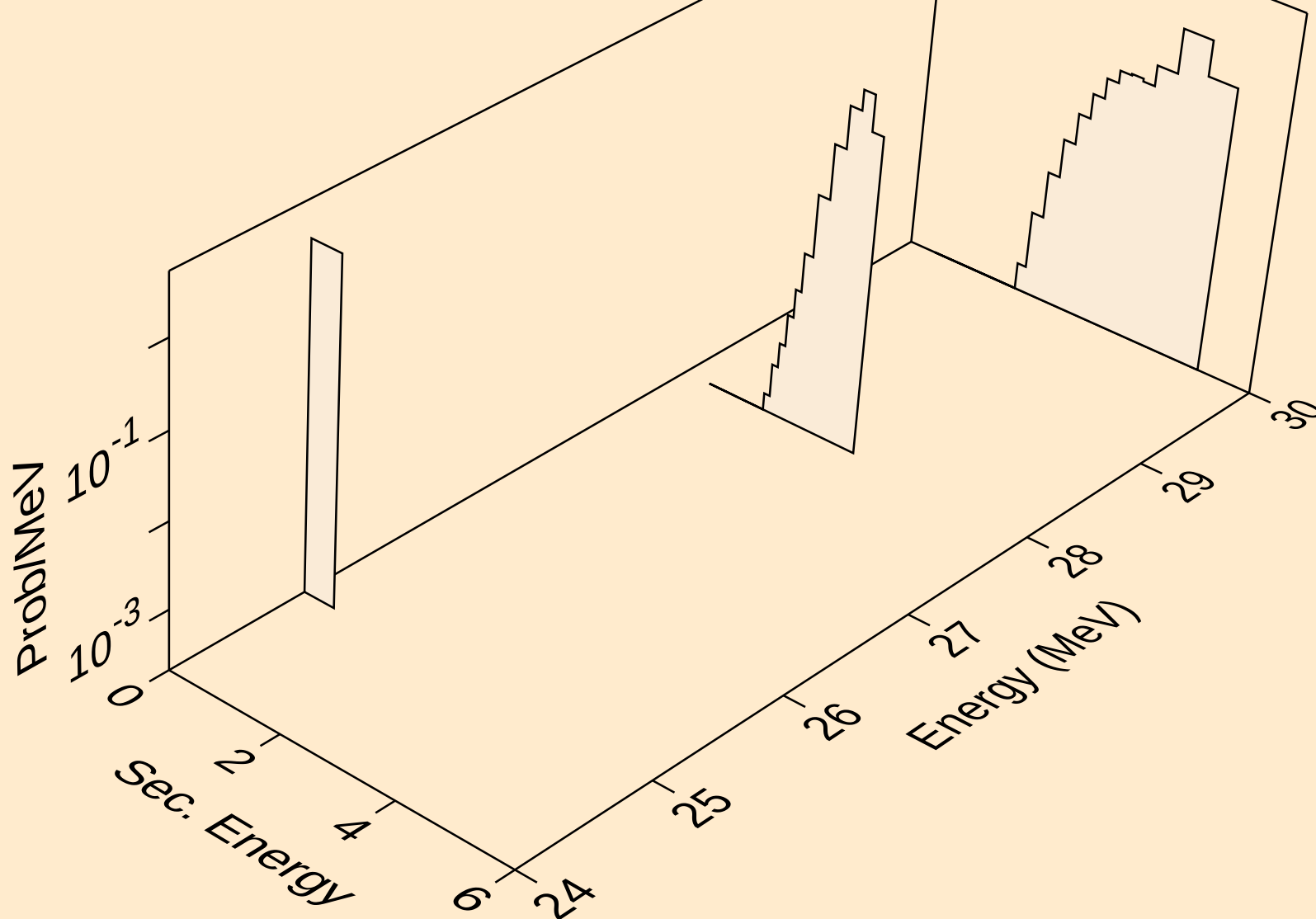
ZR081 PROTON ACER TENDL-2024 LIBRARY; T=0.K  
neutrons from (p,npa)



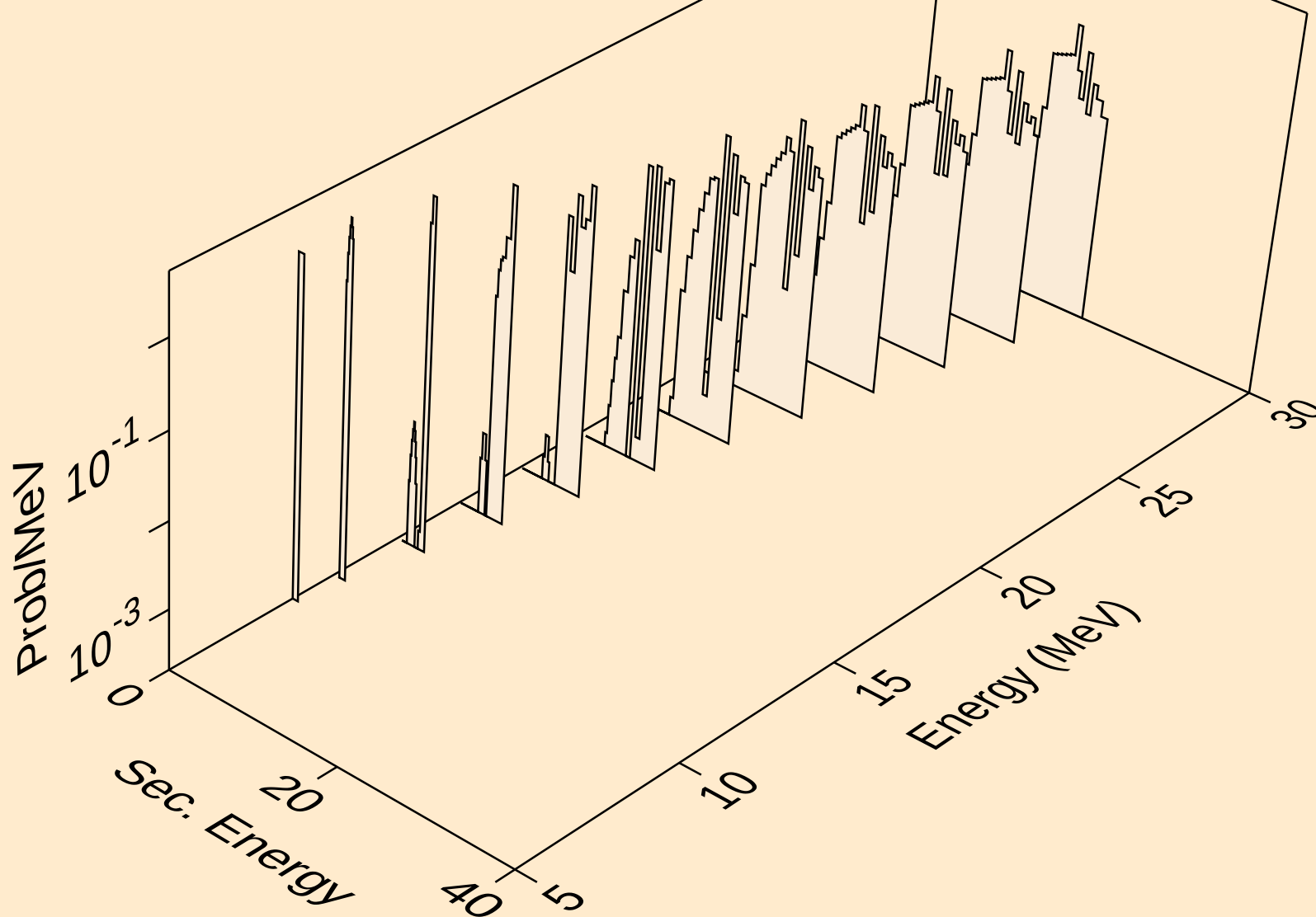
ZR081 PROTON ACER TENDL-2024 LIBRARY; T=0.K  
deuterons from (p,x)



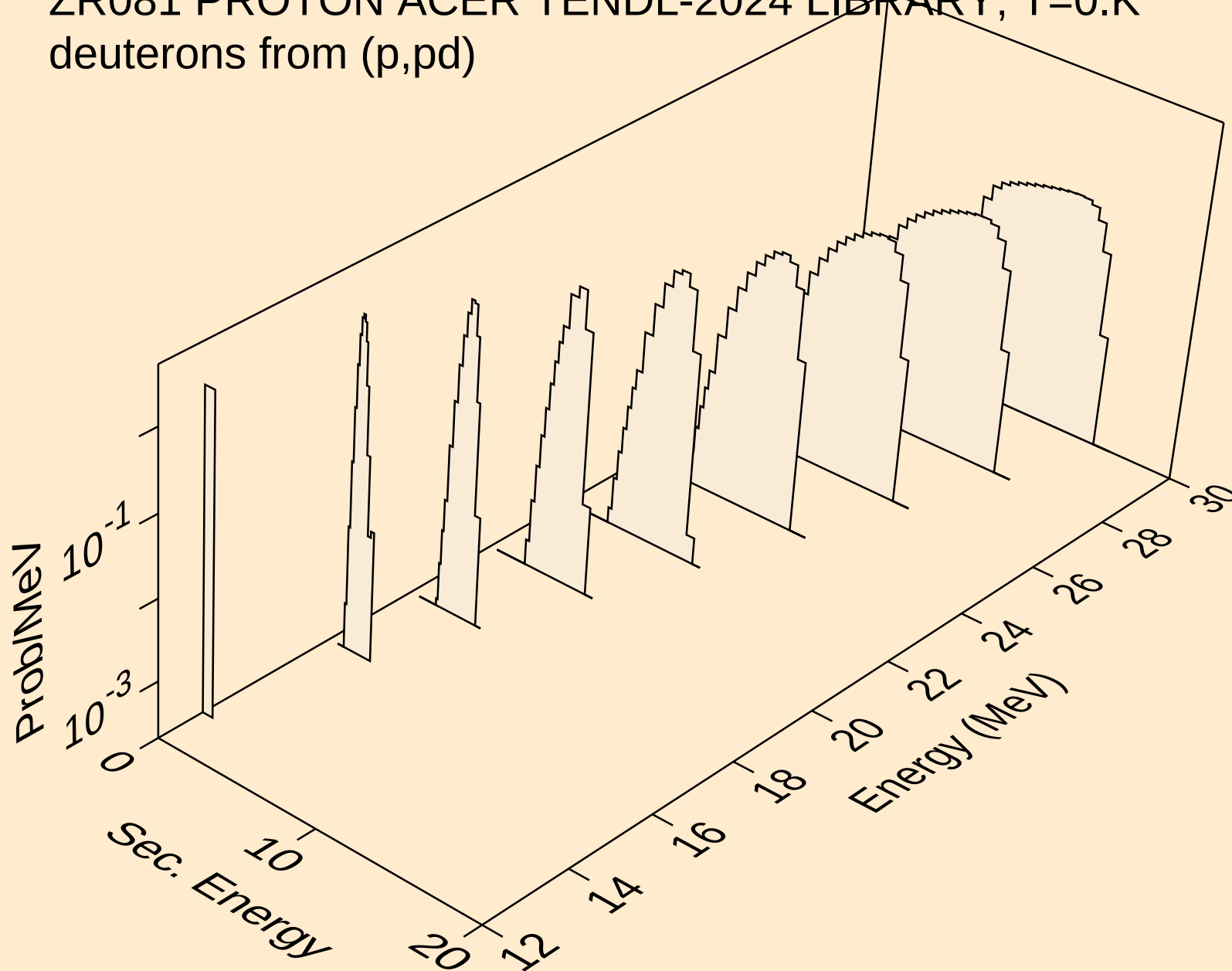
ZR081 PROTON ACER TENDL-2024 LIBRARY; T=0.K  
deuterons from (p,n\*)d



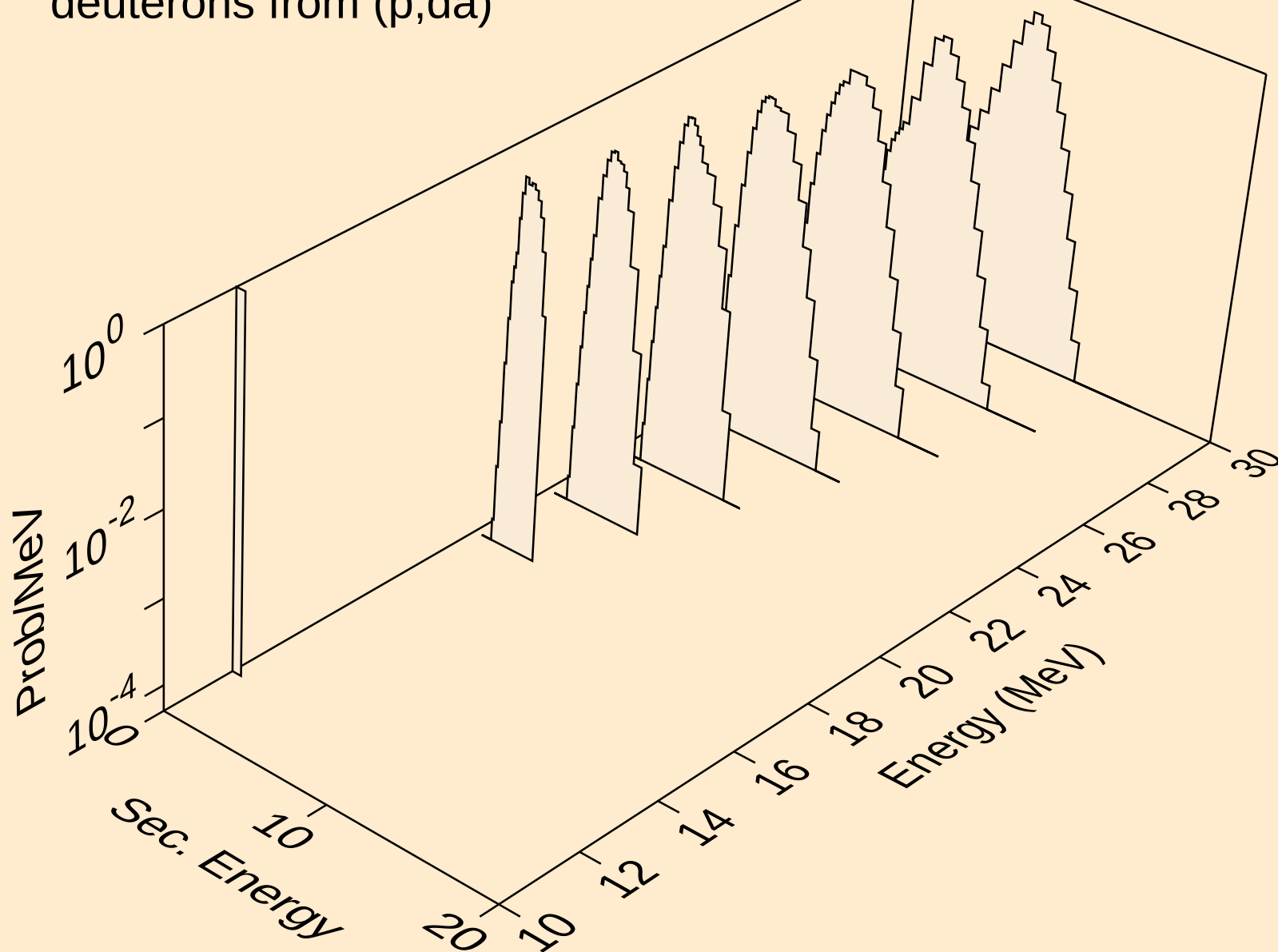
ZR081 PROTON ACER TENDL-2024 LIBRARY; T=0.K  
deuterons from (p,d)



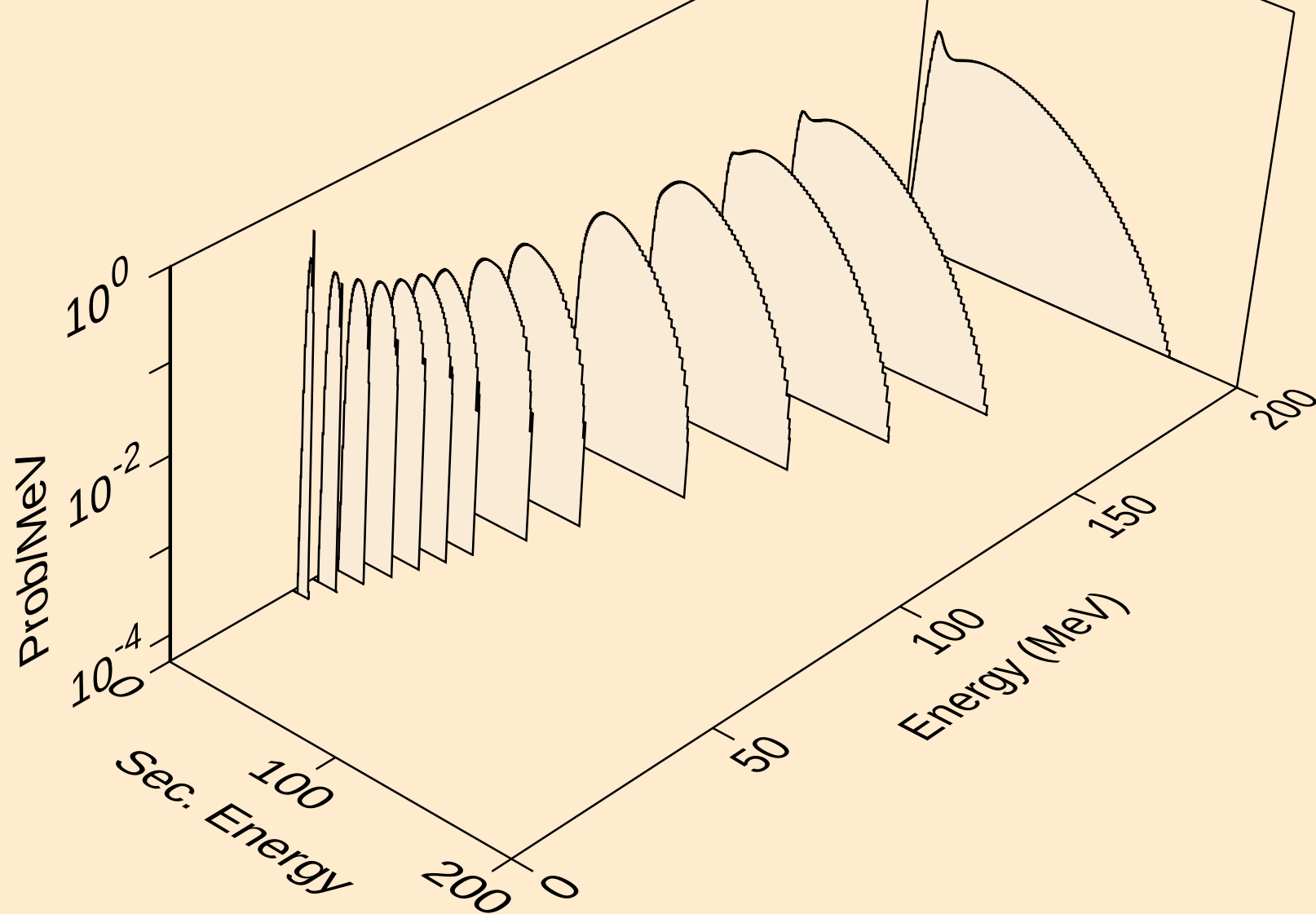
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deuterons from (p,pd)



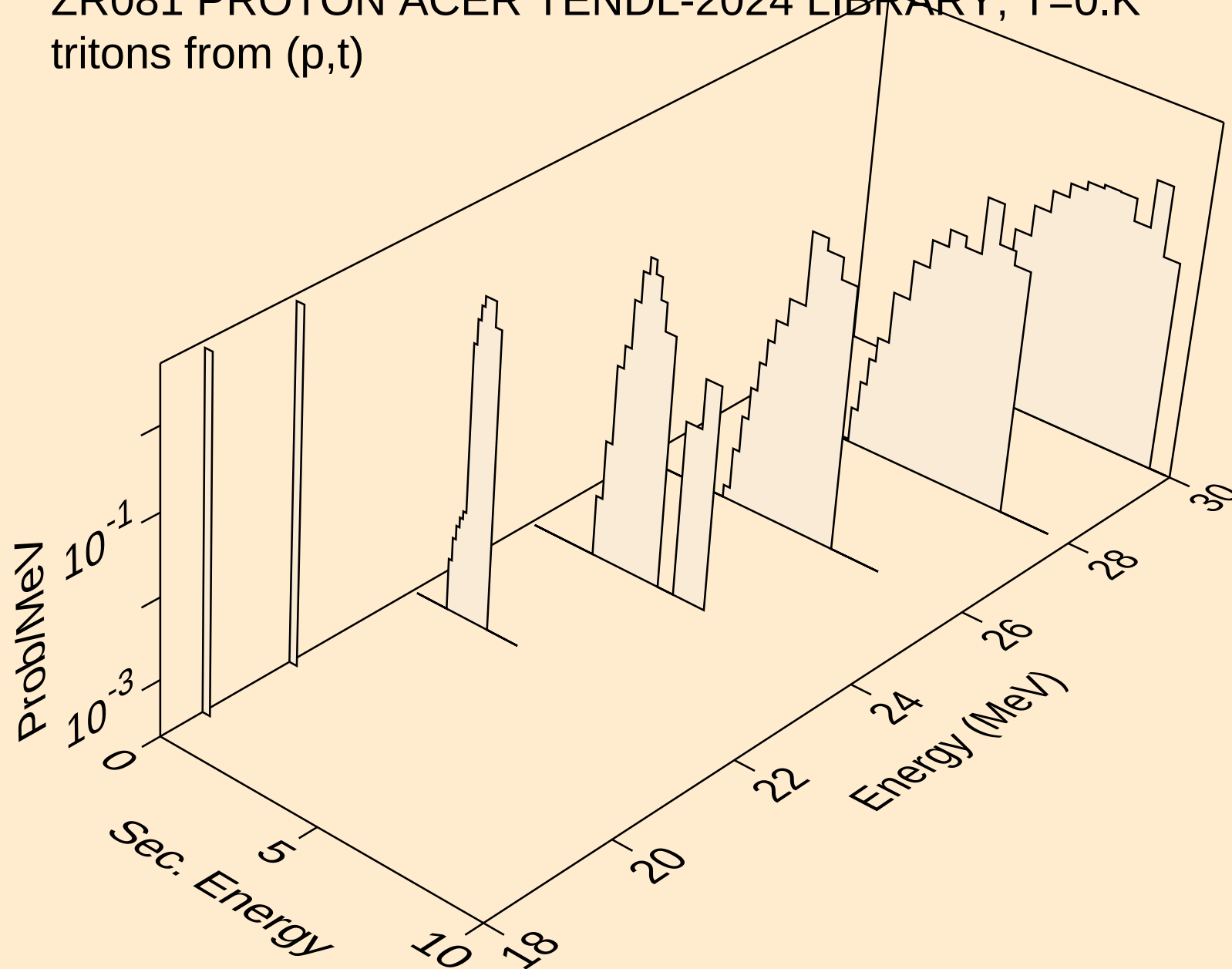
ZR081 PROTON ACER TENDL-2024 LIBRARY; T=0.K  
deuterons from (p,da)



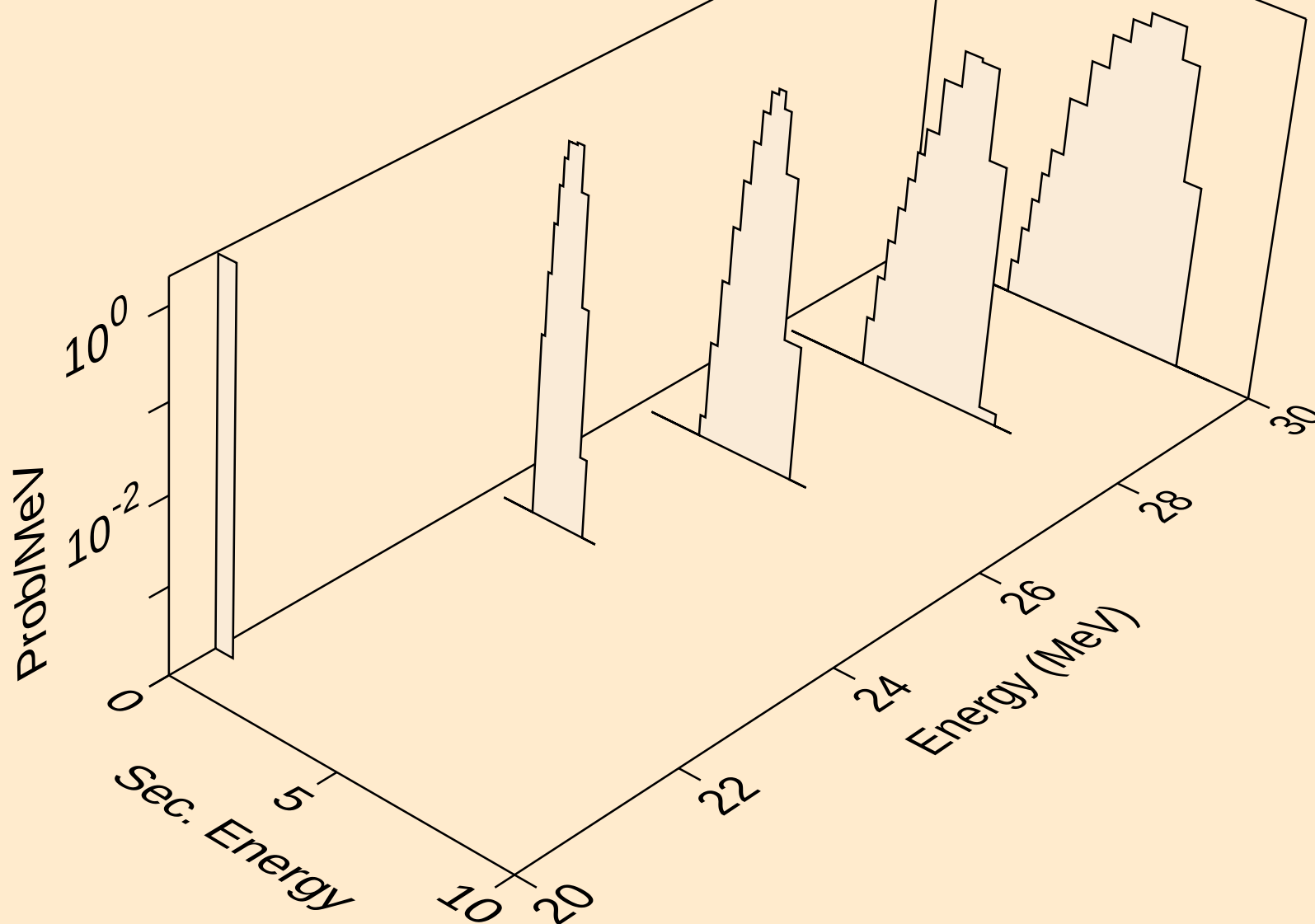
ZR081 PROTON ACER TENDL-2024 LIBRARY; T=0.K  
tritons from (p,x)



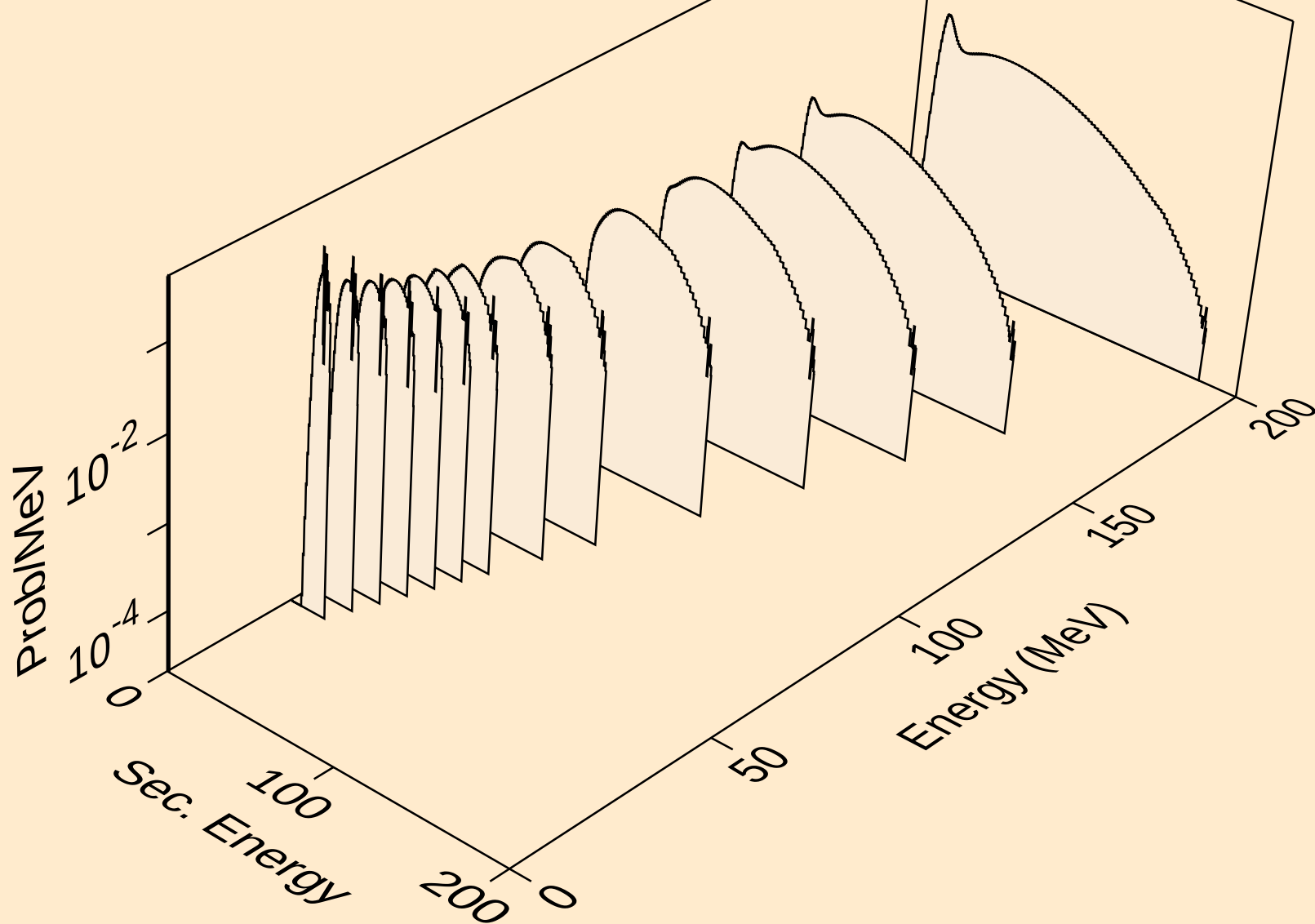
ZR081 PROTON ACER TENDL-2024 LIBRARY; T=0.K  
tritons from (p,t)



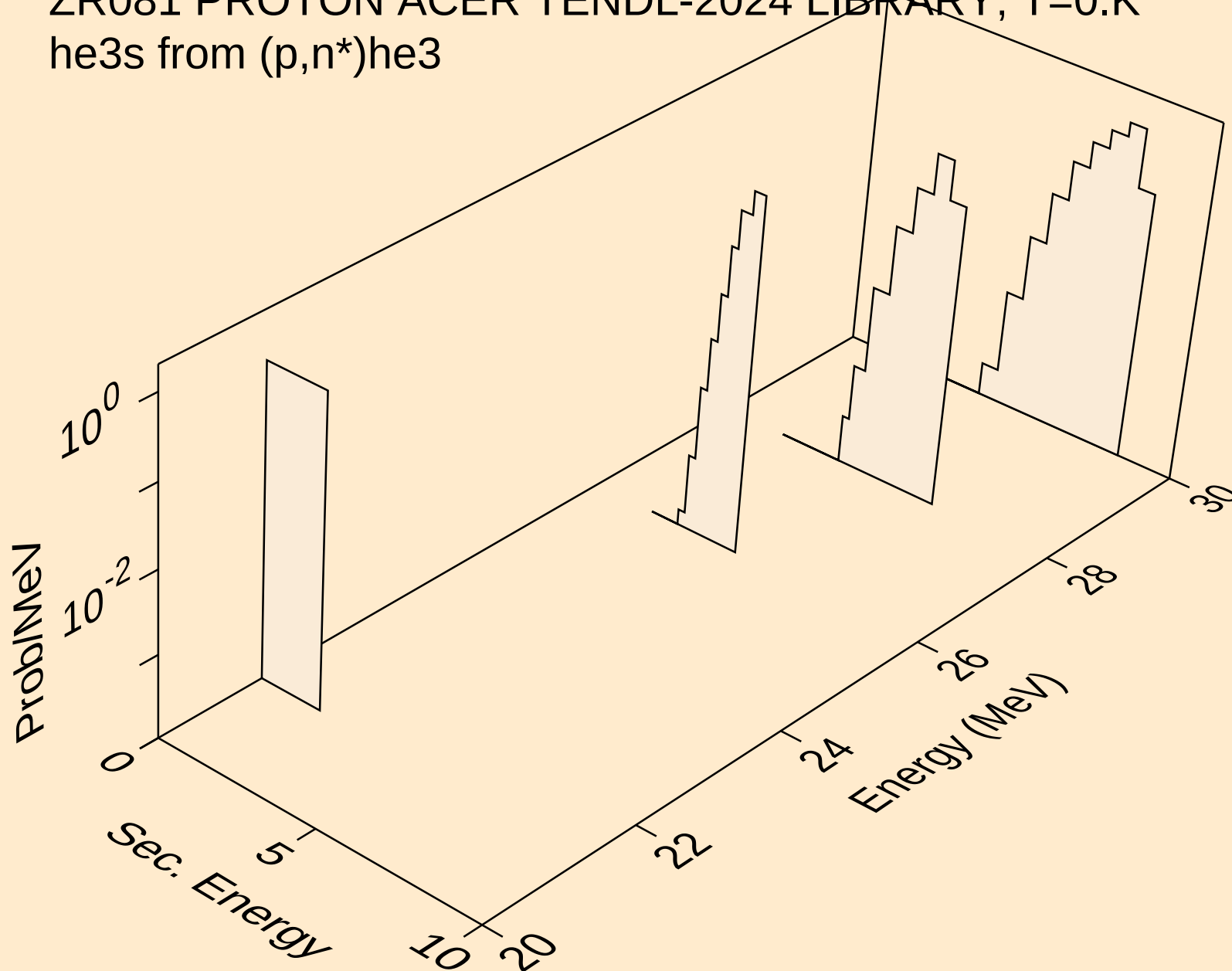
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tritons from (p,pt)



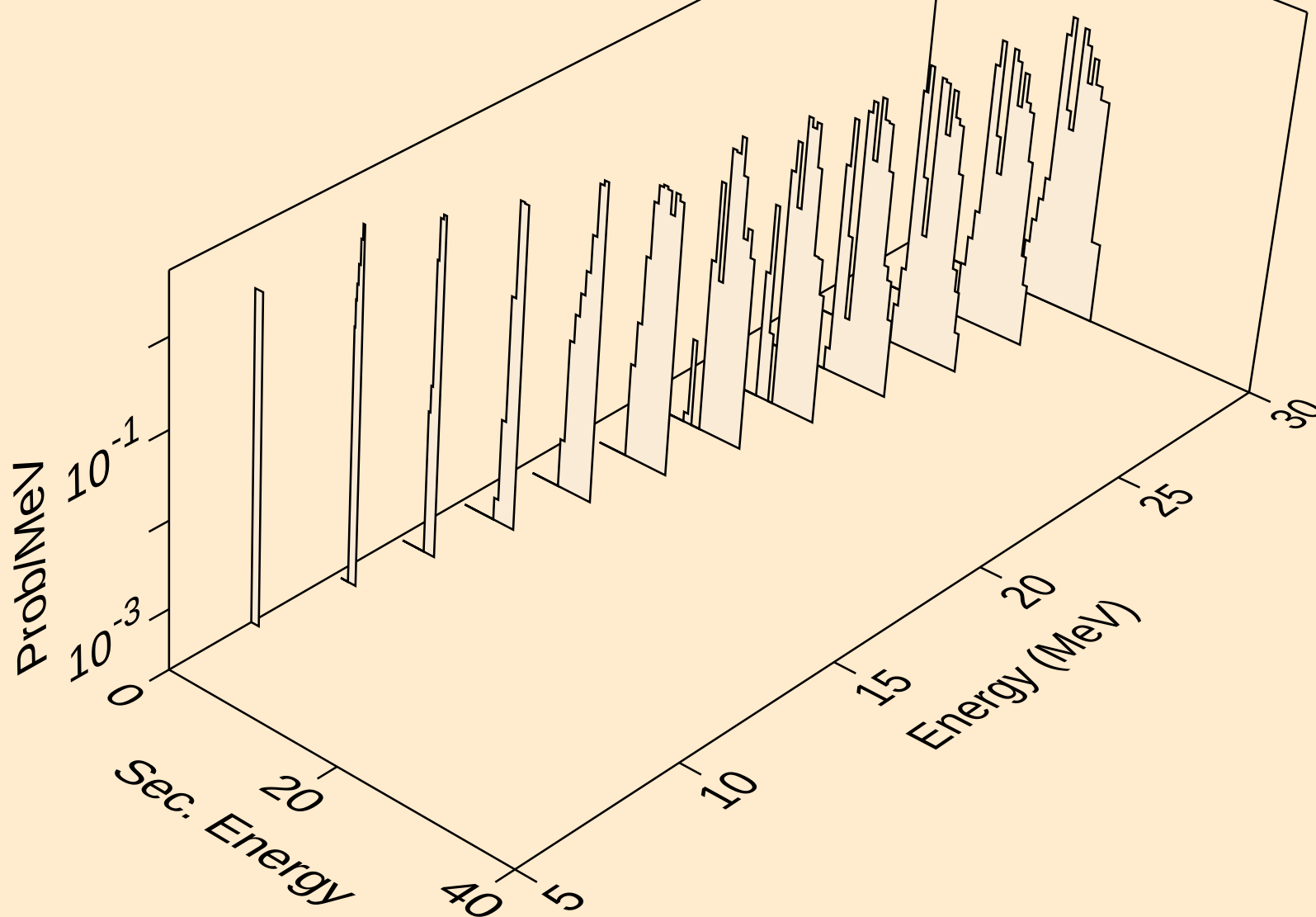
ZR081 PROTON ACER TENDL-2024 LIBRARY; T=0.K  
he3s from (p,x)



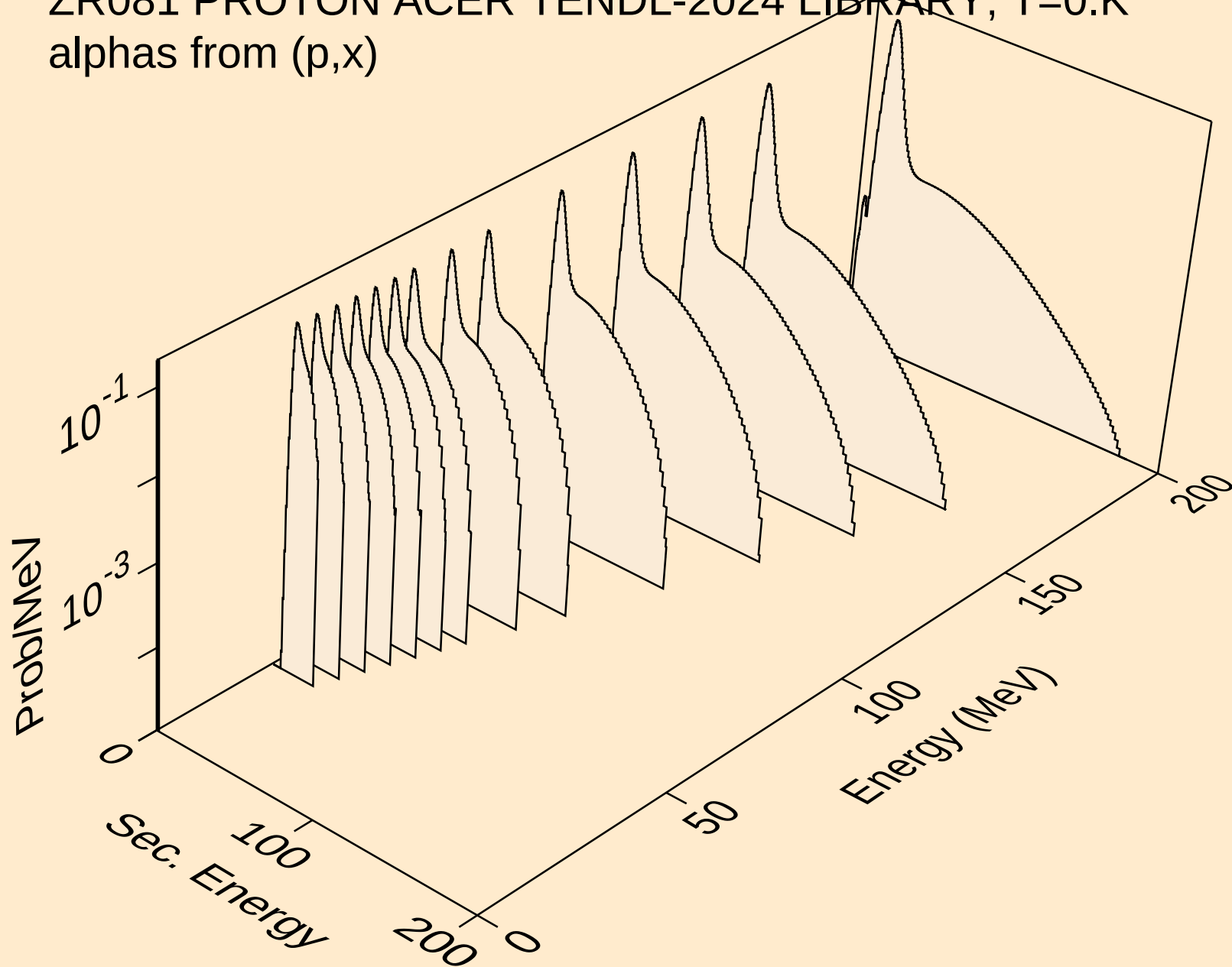
ZR081 PROTON ACER TENDL-2024 LIBRARY; T=0.K  
he3s from (p,n\*)he3



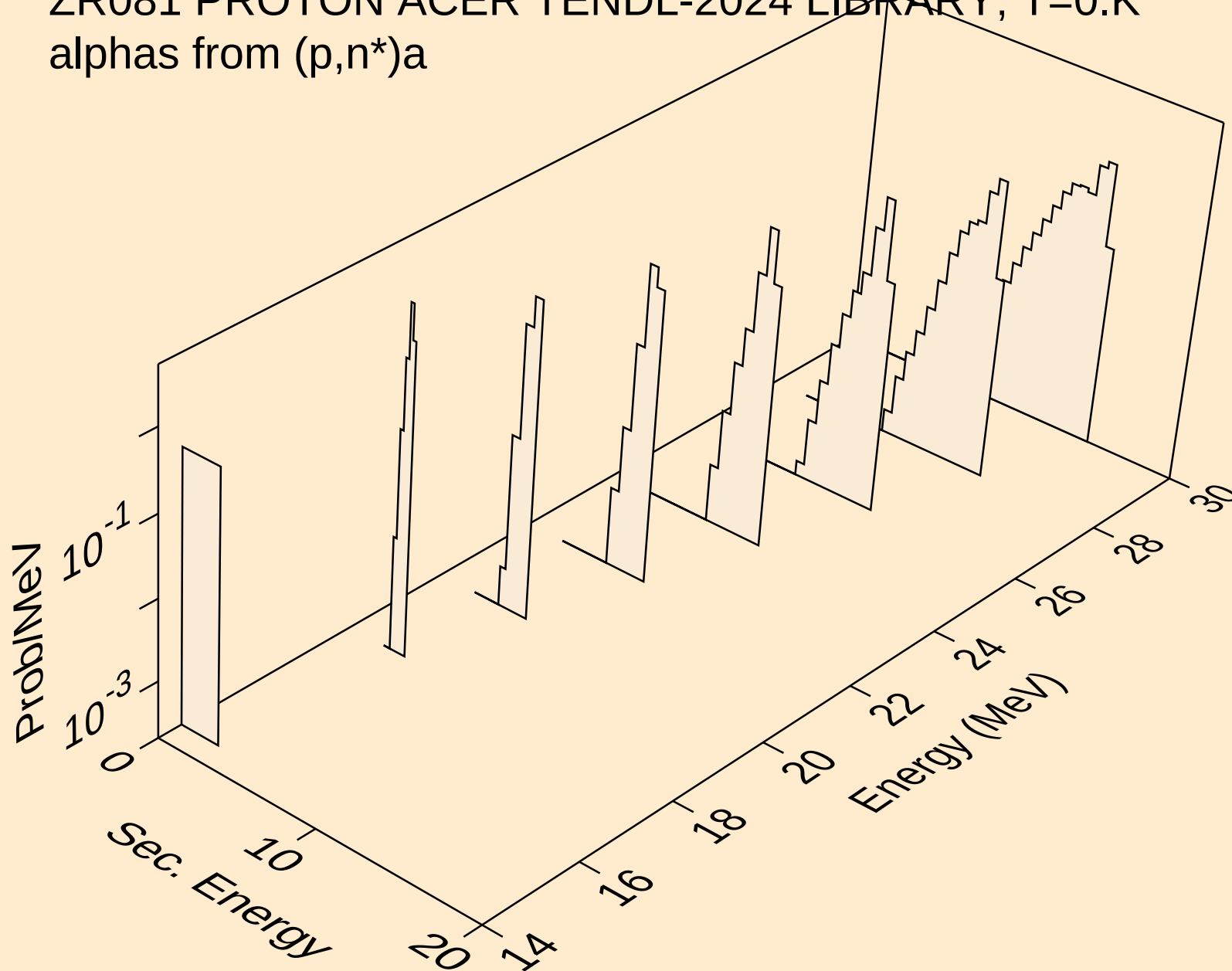
ZR081 PROTON ACER TENDL-2024 LIBRARY; T=0.K  
he3s from (p,he3)



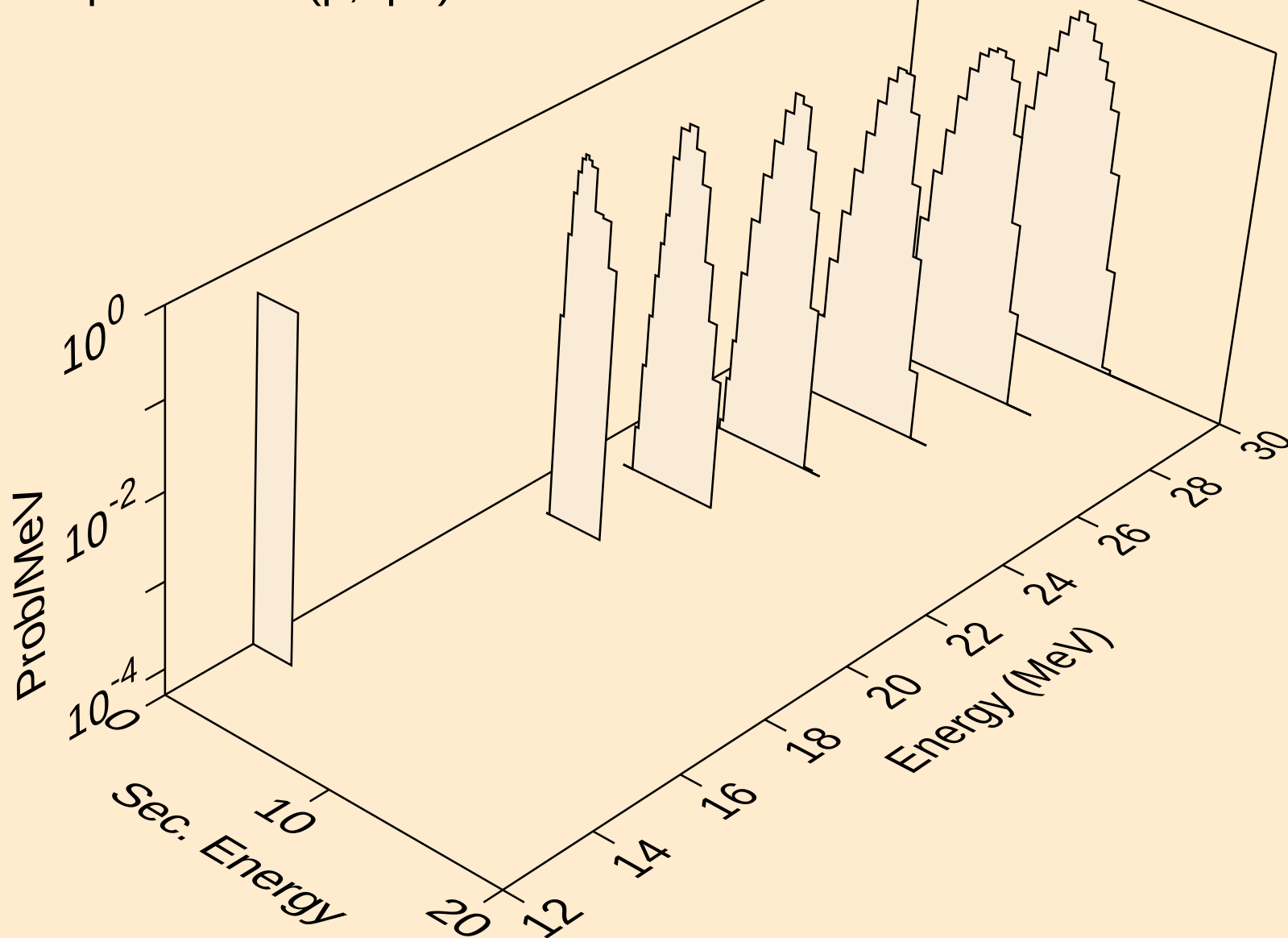
ZR081 PROTON ACER TENDL-2024 LIBRARY; T=0.K  
alphas from (p,x)



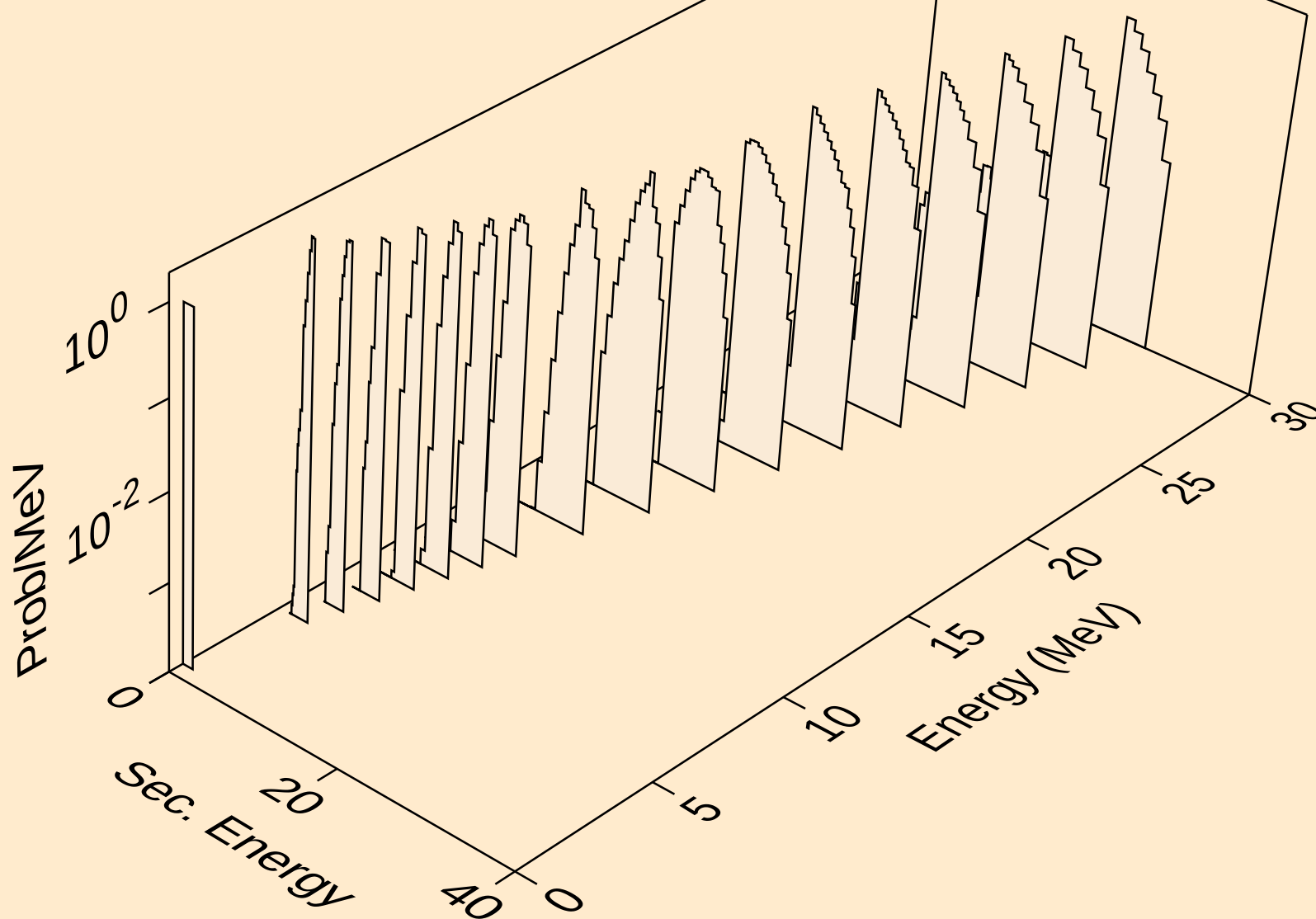
ZR081 PROTON ACER TENDL-2024 LIBRARY; T=0.K  
alphas from (p,n\*)a



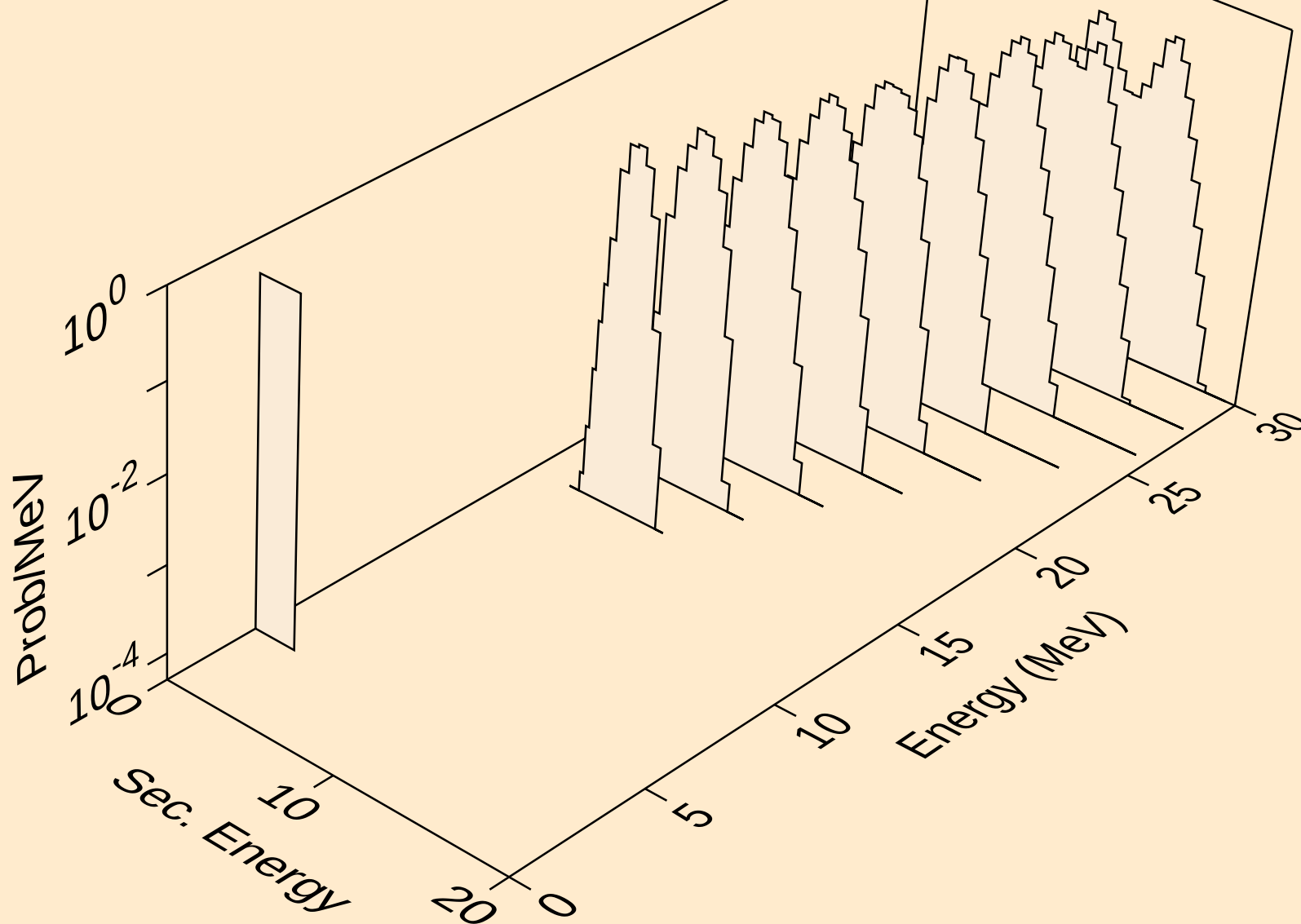
ZR081 PROTON ACER TENDL-2024 LIBRARY; T=0.K  
alphas from (p,npa)



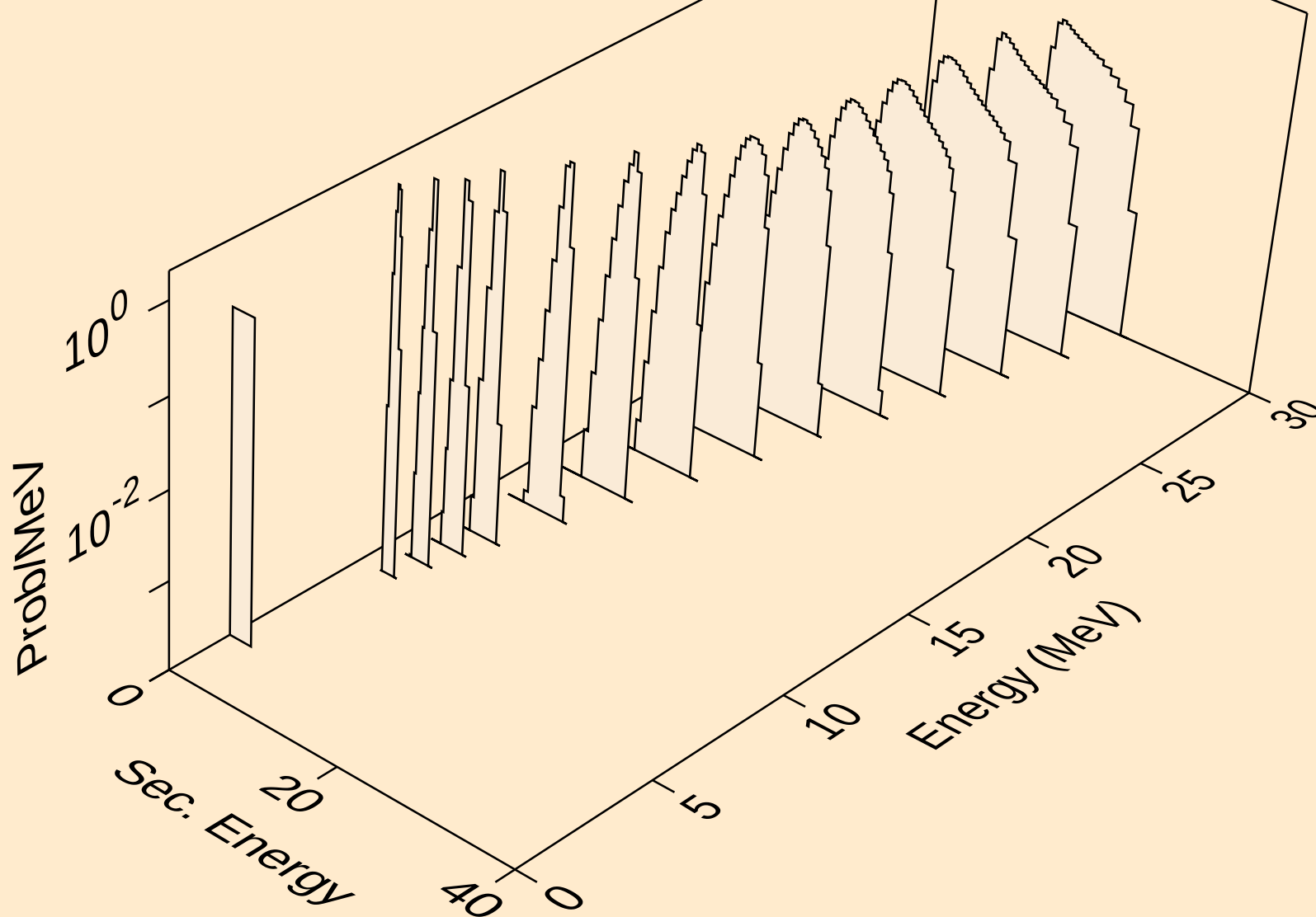
ZR081 PROTON ACER TENDL-2024 LIBRARY; T=0.K  
alphas from (p,a)



ZR081 PROTON ACER TENDL-2024 LIBRARY; T=0.K  
alphas from (p,2a)



ZR081 PROTON ACER TENDL-2024 LIBRARY; T=0.K  
alphas from (p,pa)



ZR081 PROTON ACER TENDL-2024 LIBRARY; T=0.K  
alphas from (p,da)

