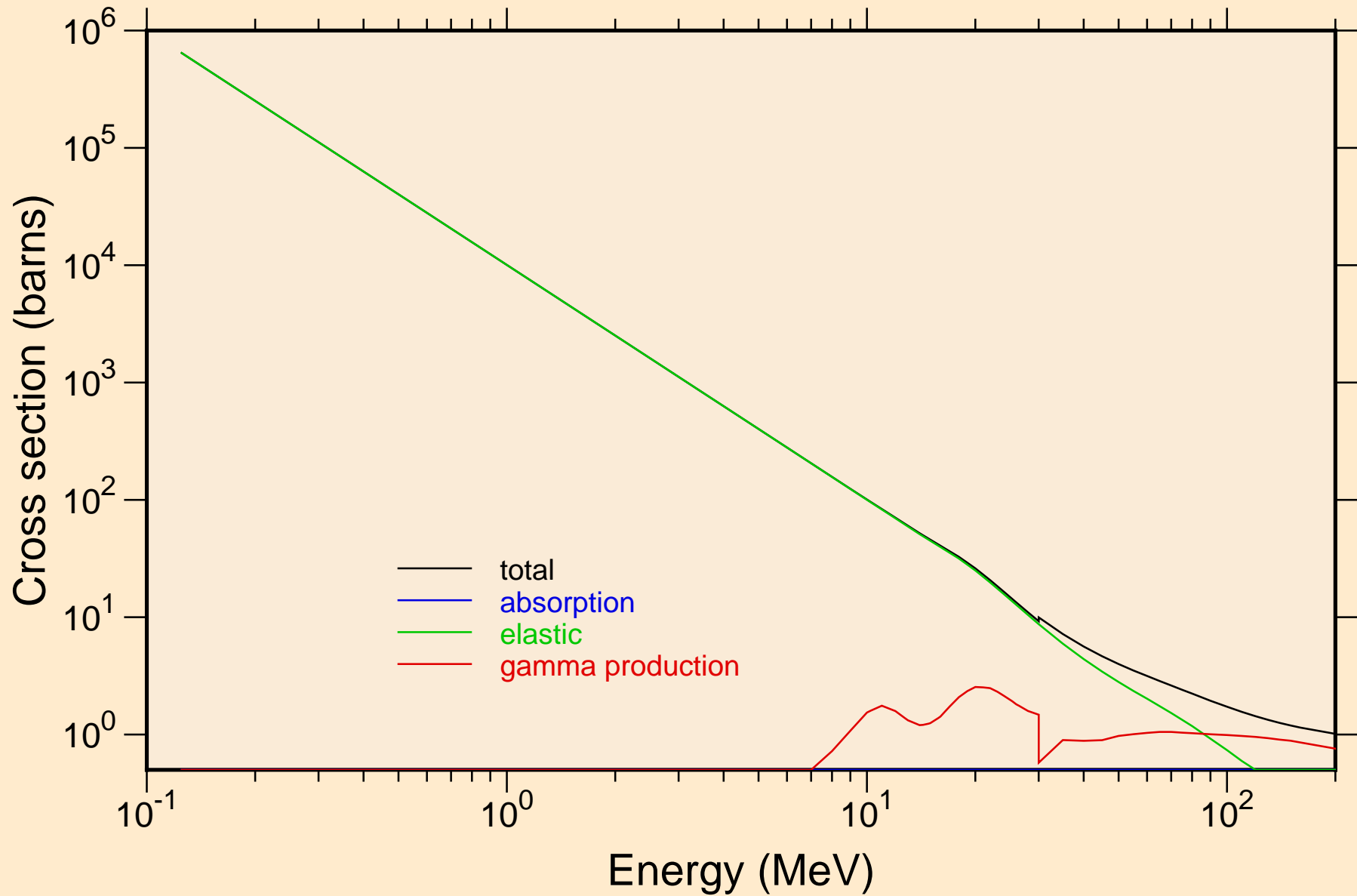


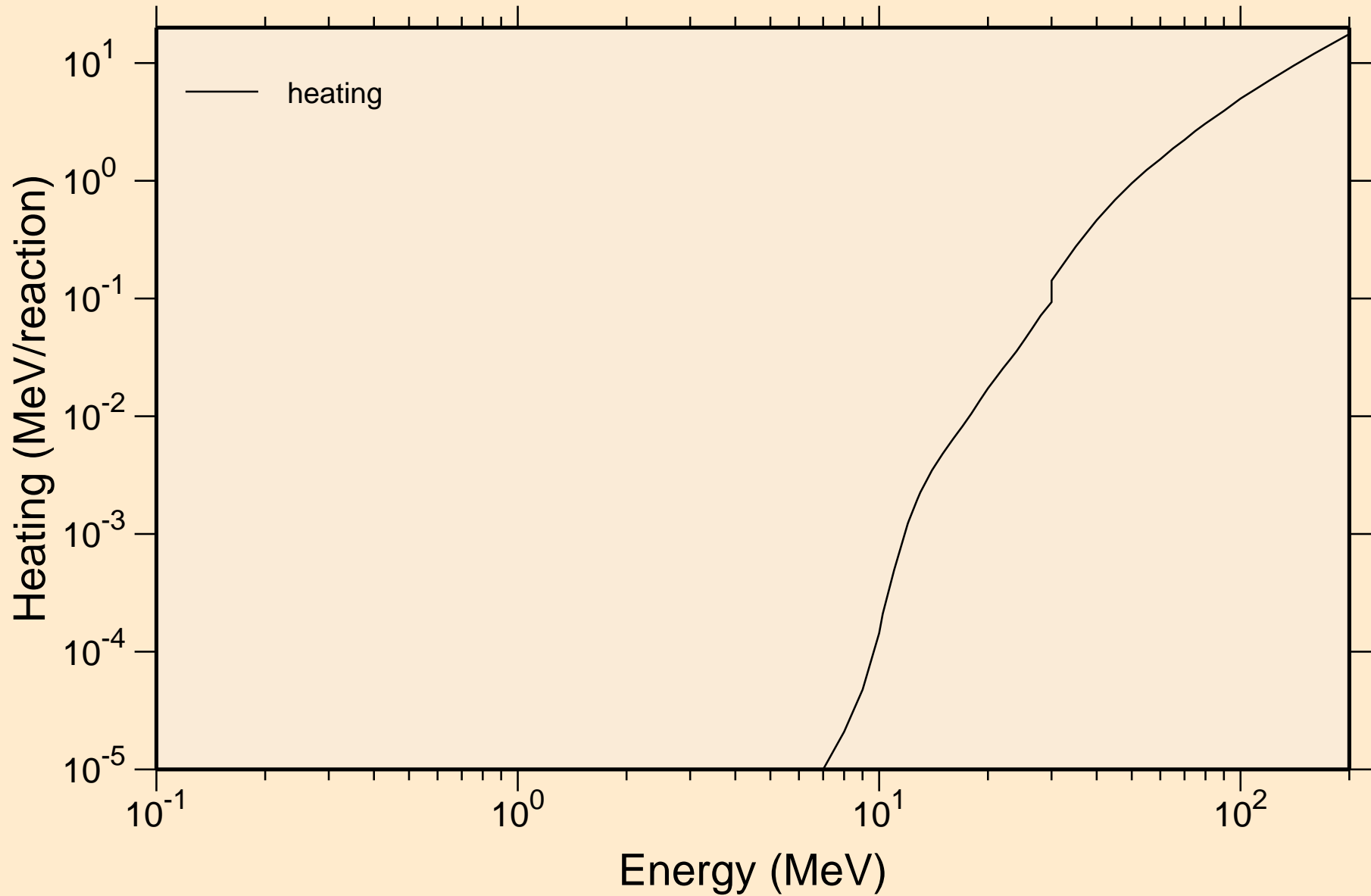
# ZR082 PROTON ACER TENDL-2024 LIBRARY; T=0.K

## Principal cross sections



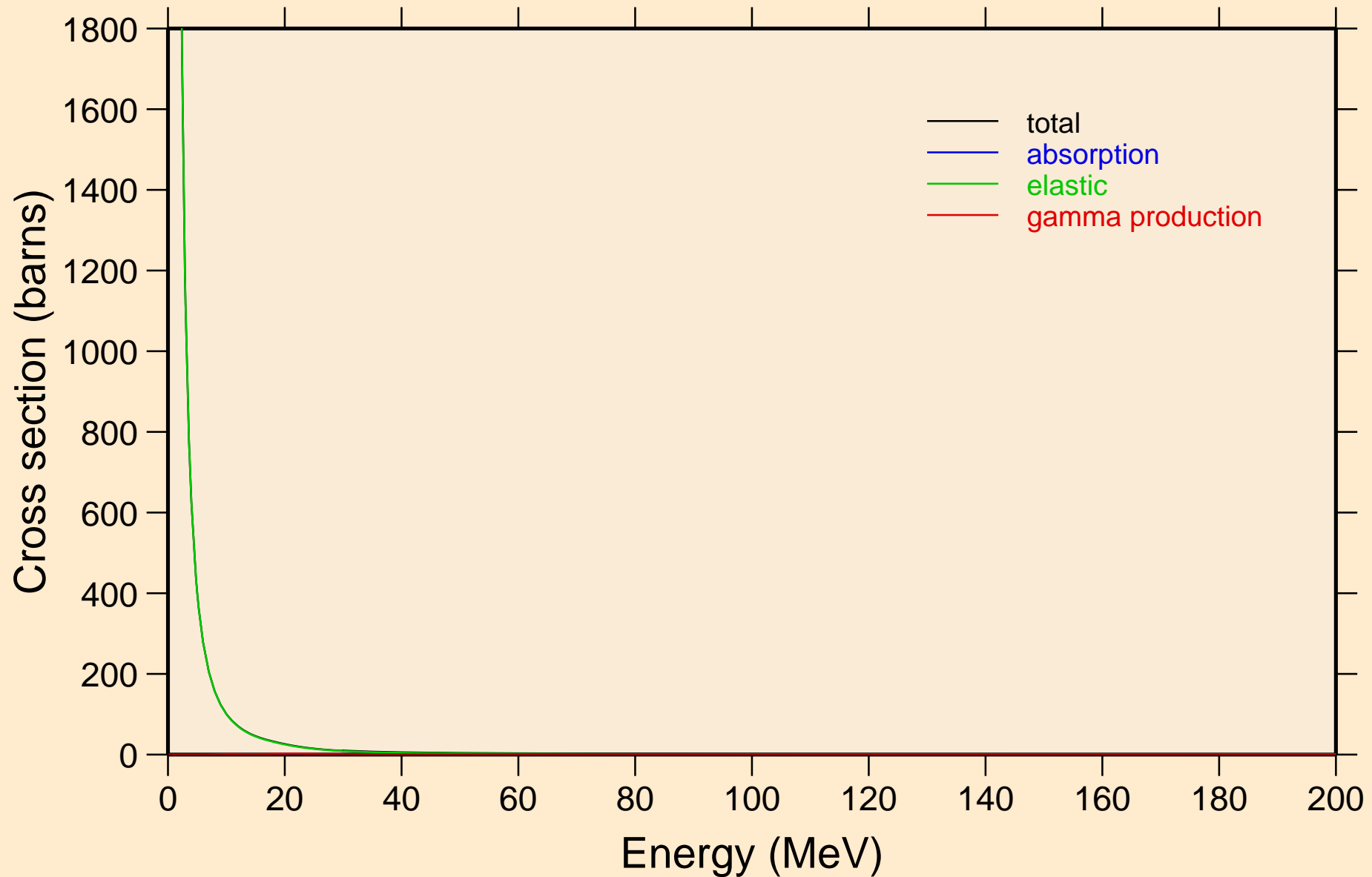
# ZR082 PROTON ACER TENDL-2024 LIBRARY; T=0.K

## Heating



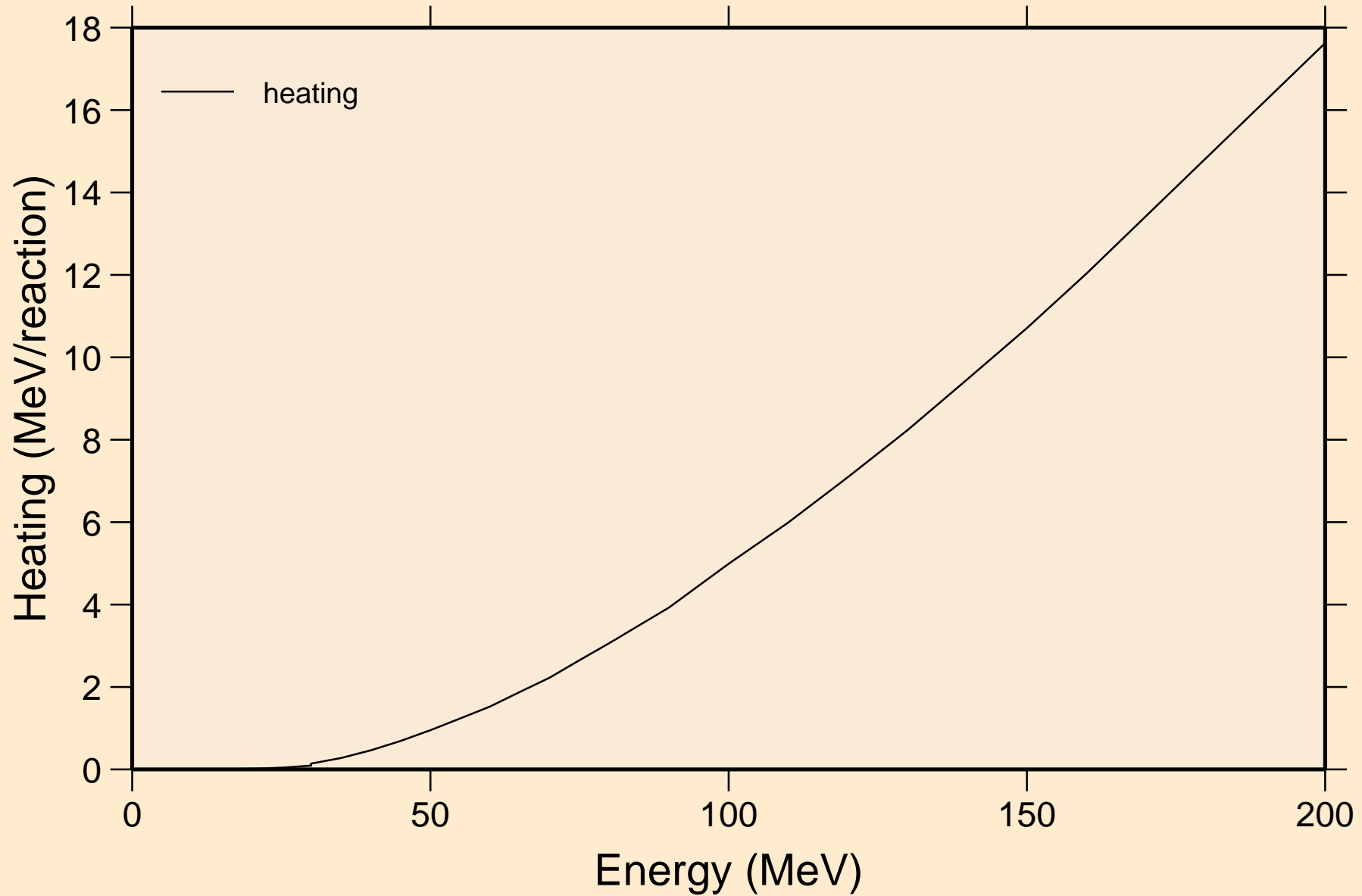
# ZR082 PROTON ACER TENDL-2024 LIBRARY; T=0.K

## Principal cross sections



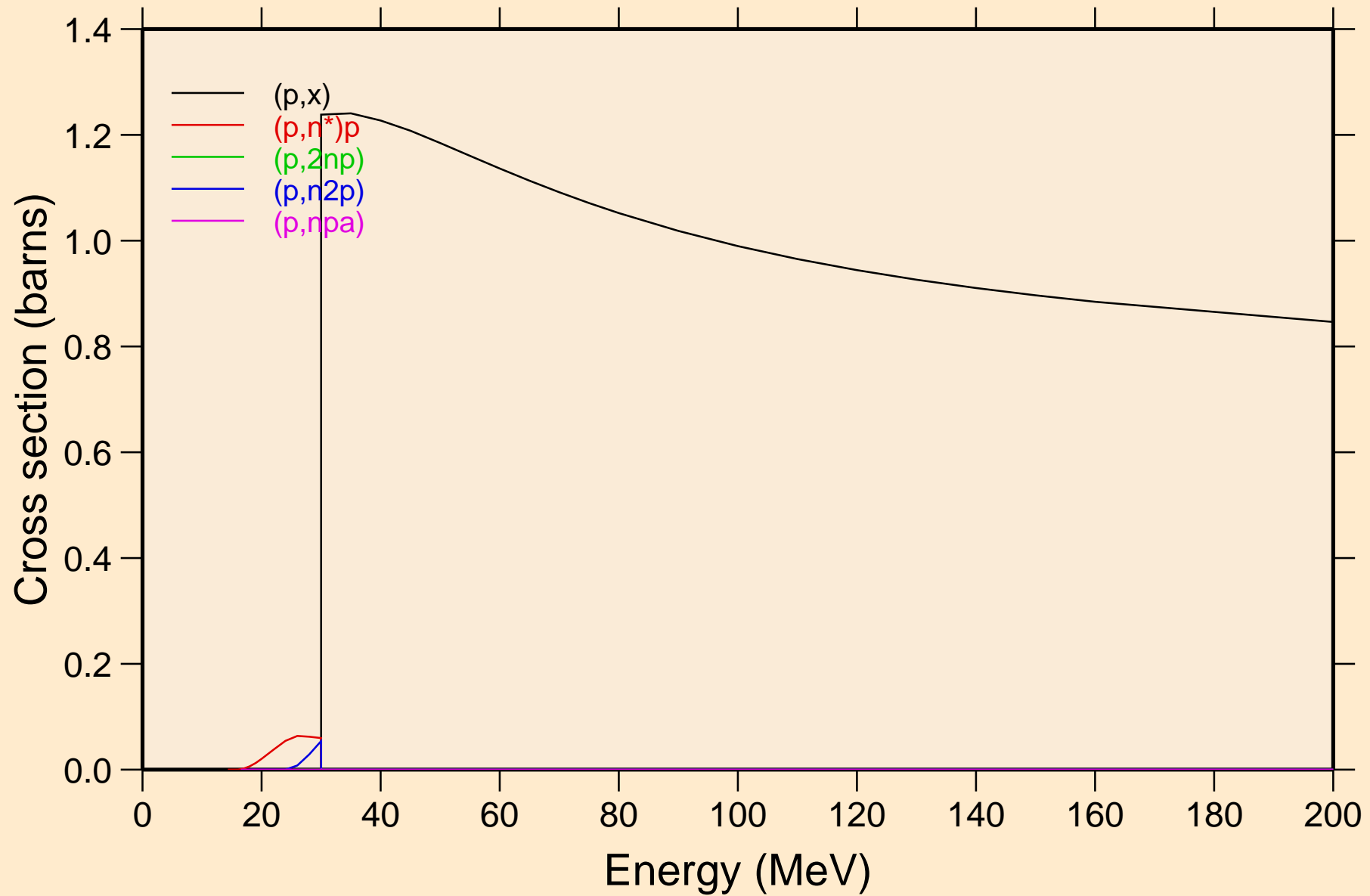
# ZR082 PROTON ACER TENDL-2024 LIBRARY; T=0.K

## Heating

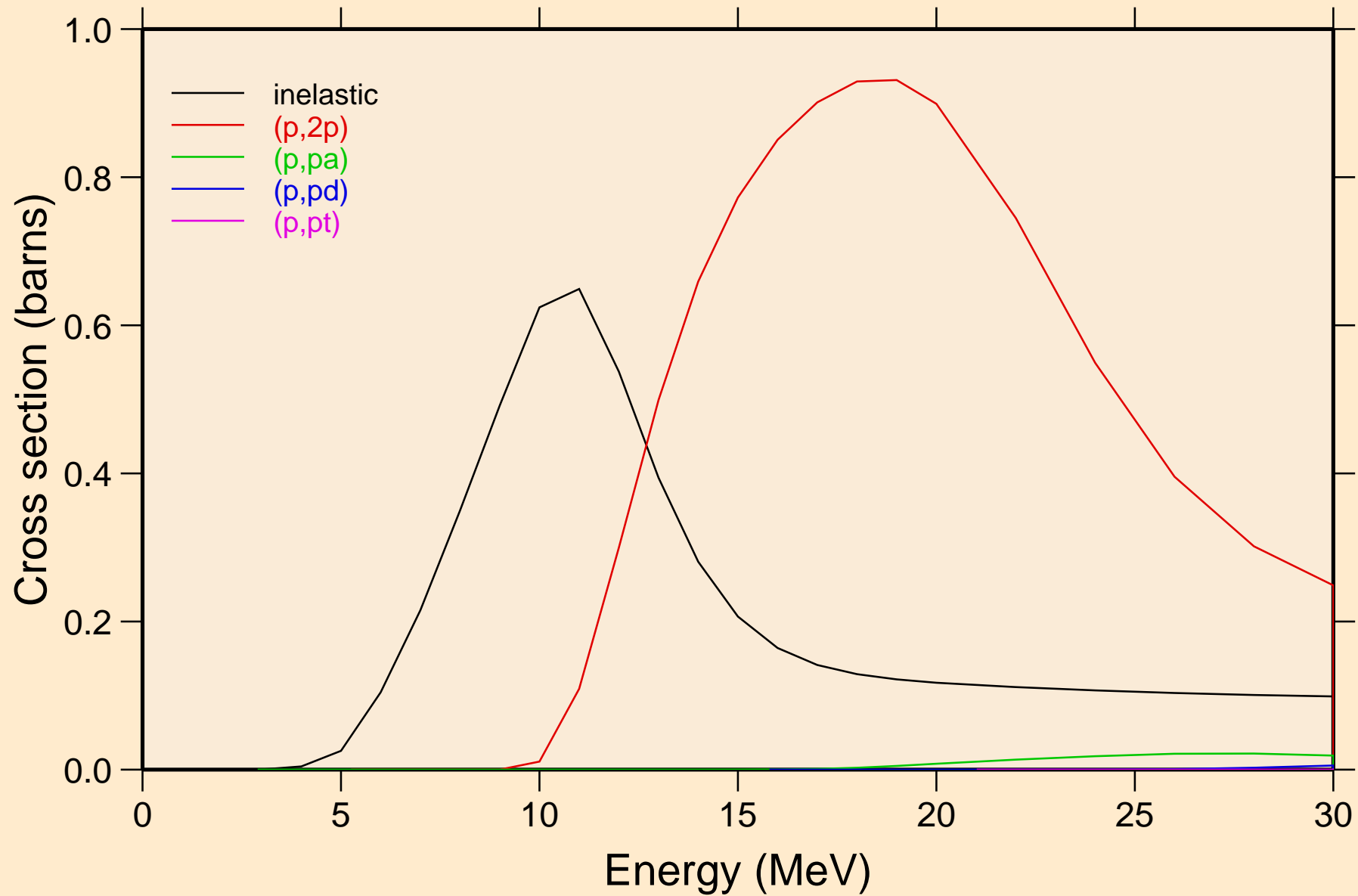


# ZR082 PROTON ACER TENDL-2024 LIBRARY; T=0.K

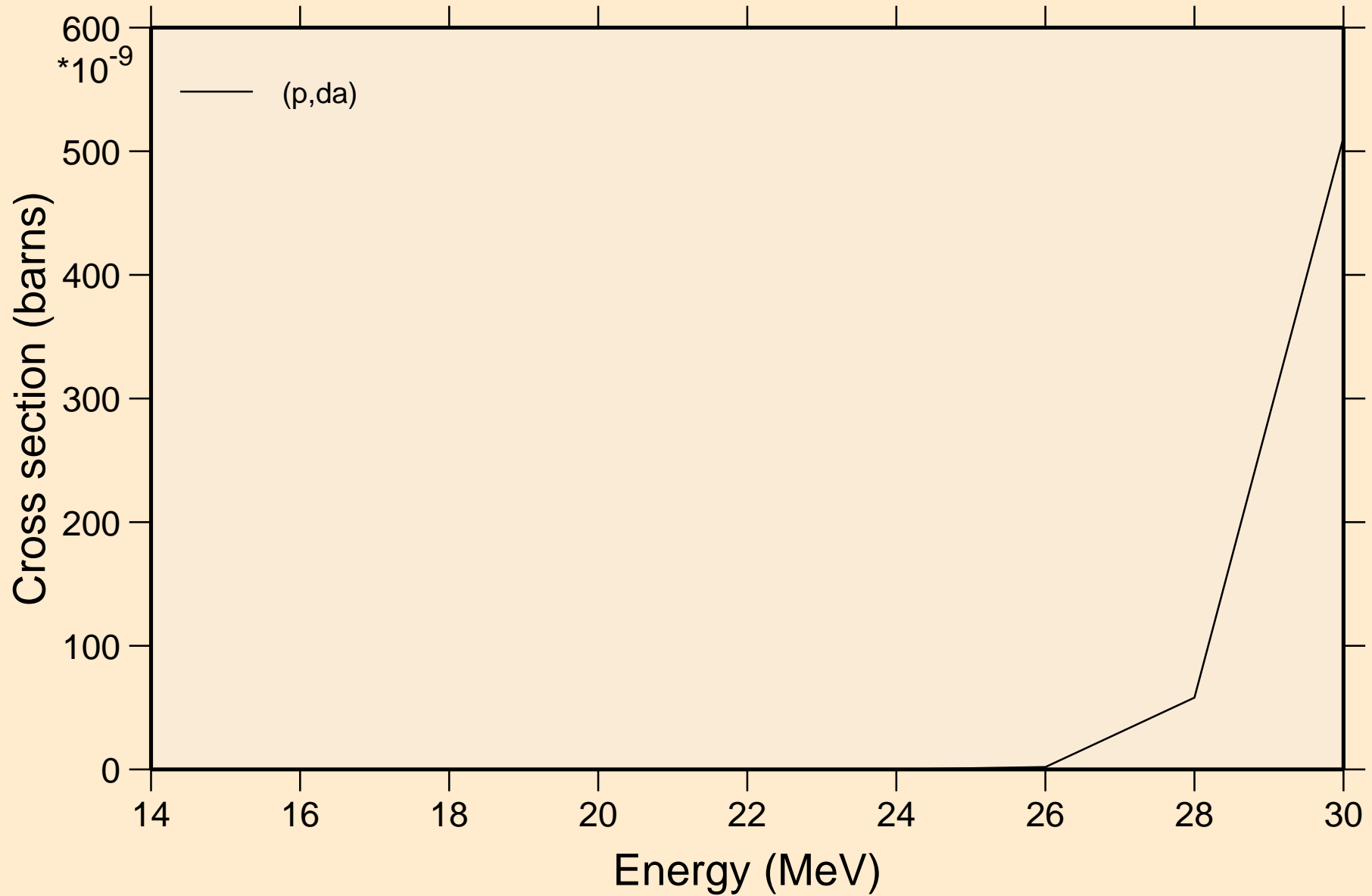
## Threshold reactions



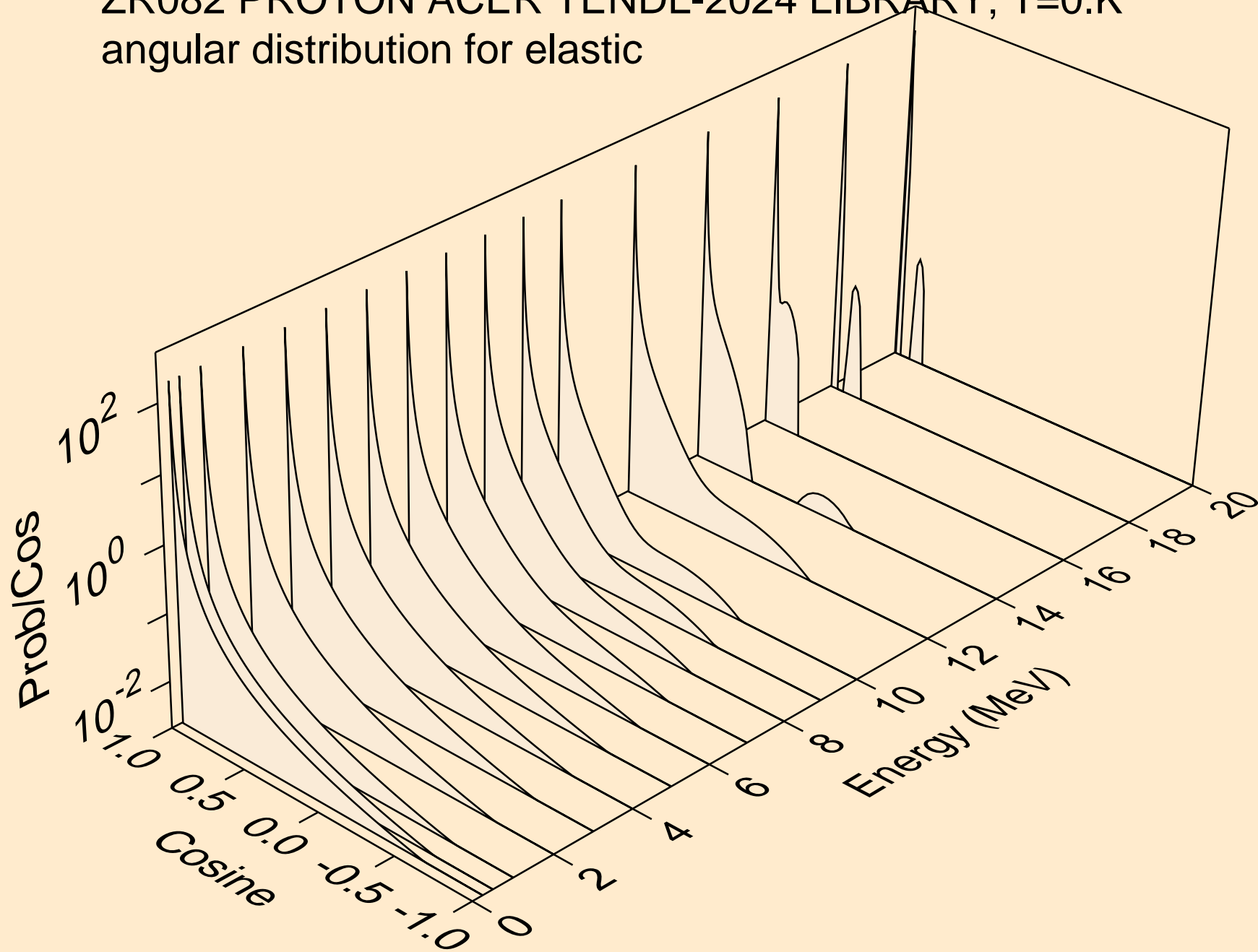
ZR082 PROTON ACER TENDL-2024 LIBRARY; T=0.K  
Threshold reactions



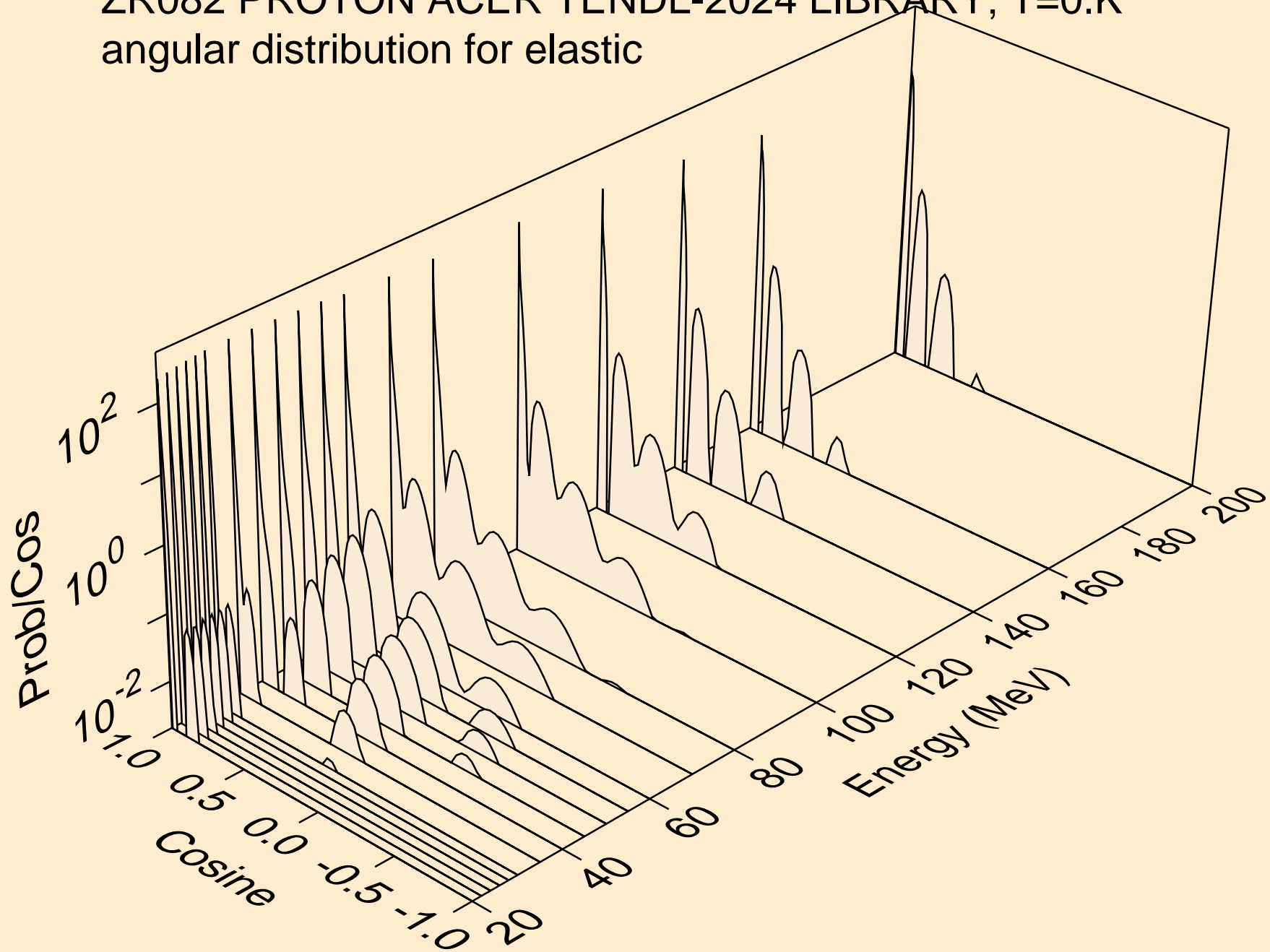
ZR082 PROTON ACER TENDL-2024 LIBRARY; T=0.K  
Threshold reactions



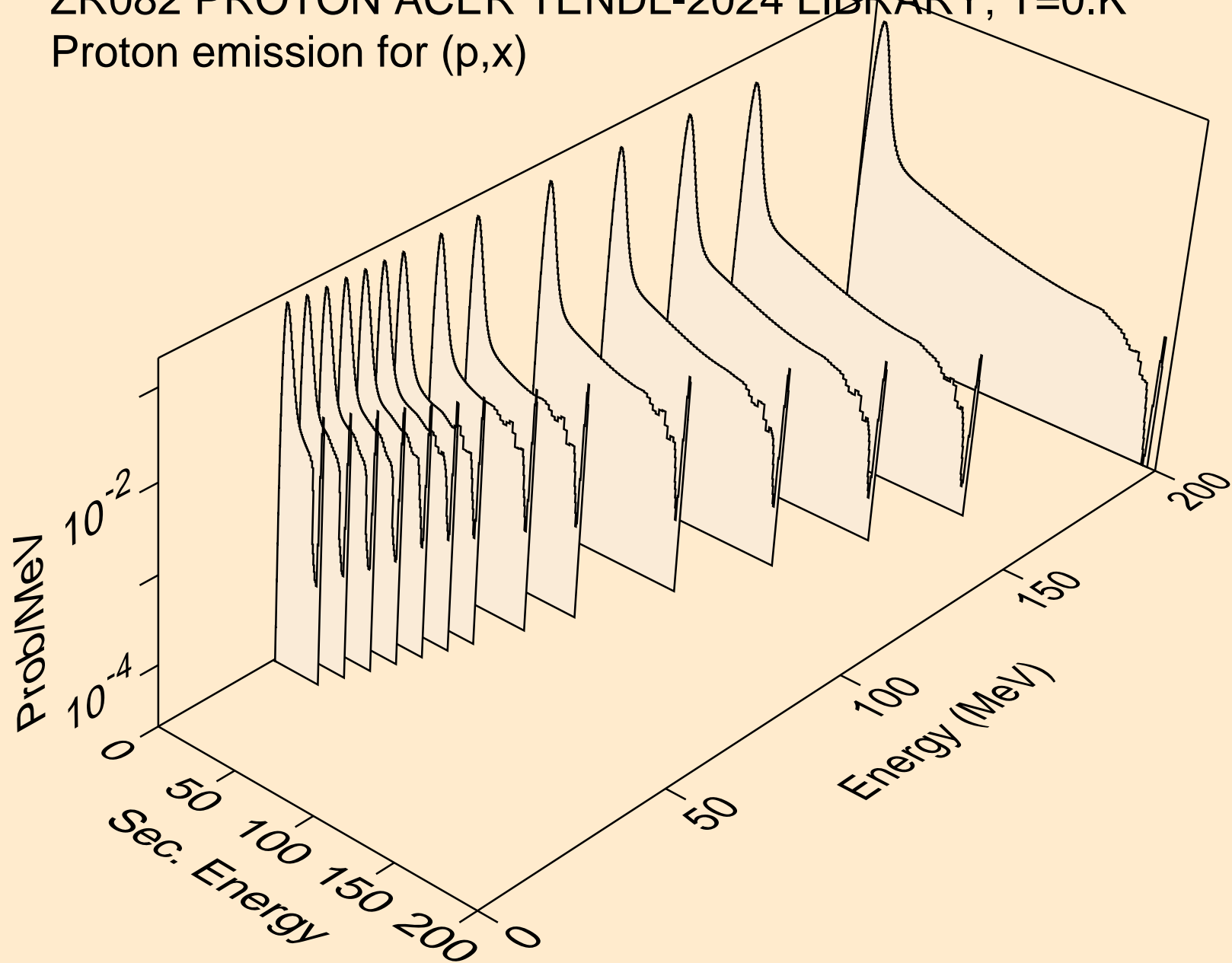
ZR082 PROTON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for elastic



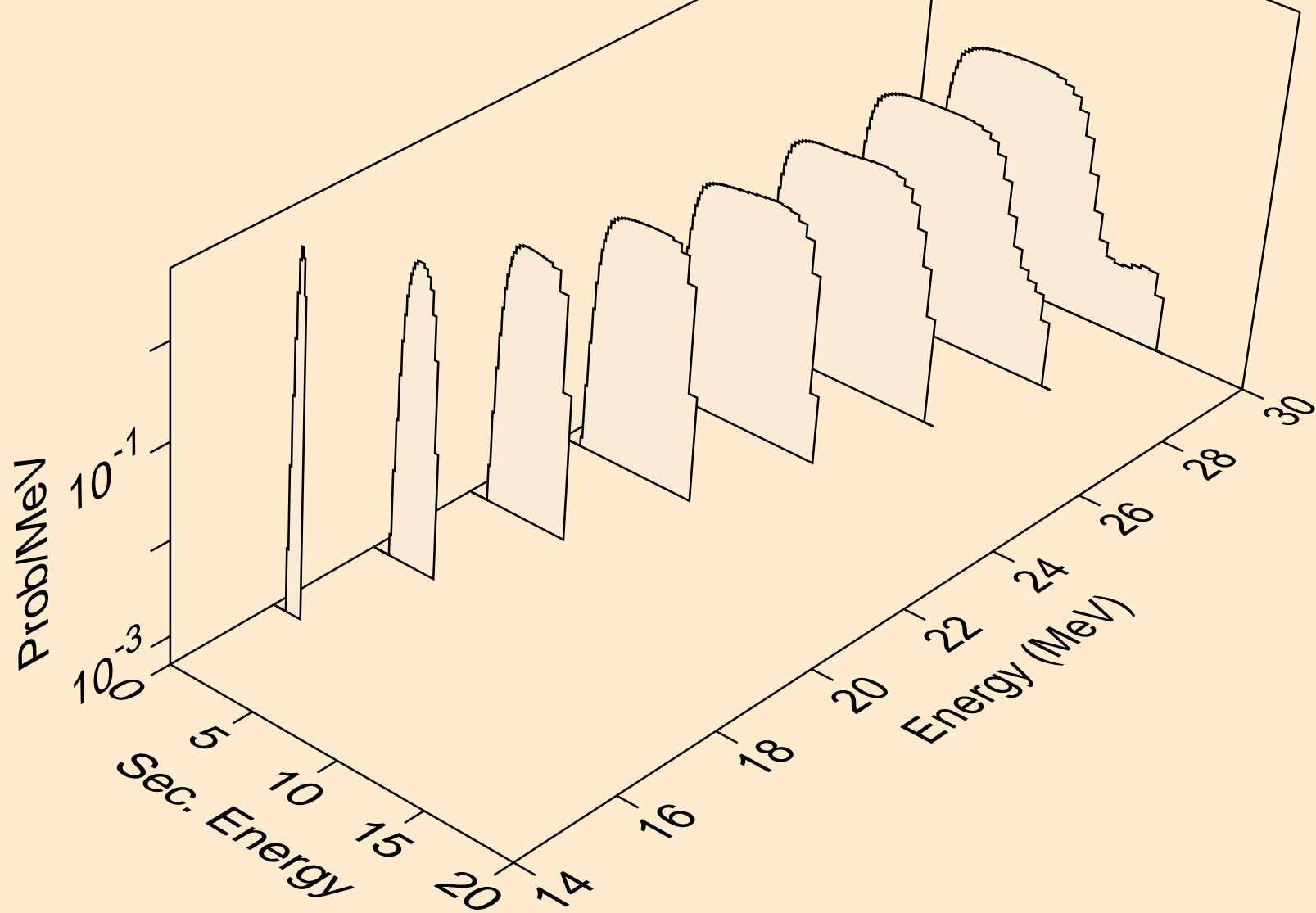
ZR082 PROTON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for elastic



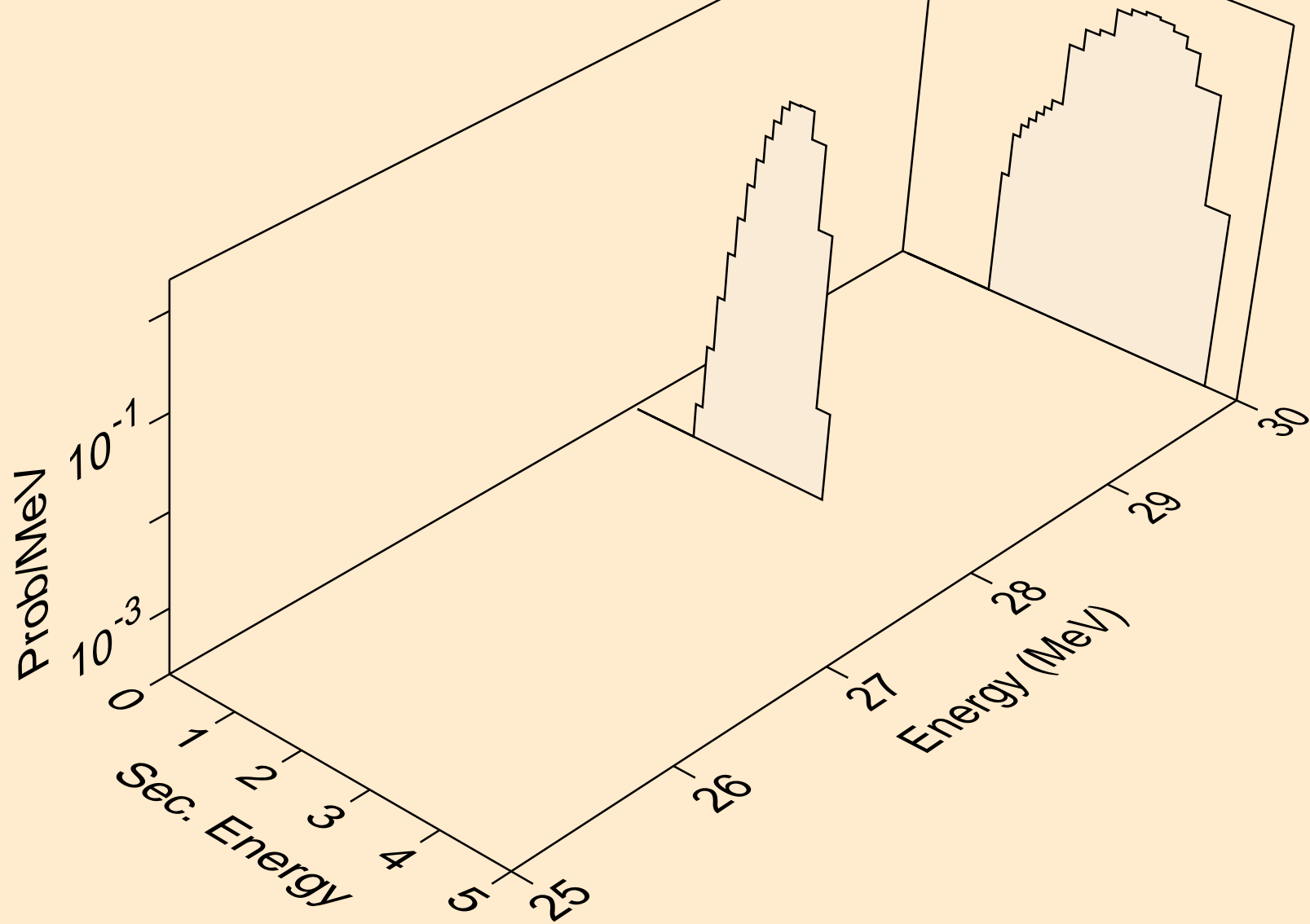
ZR082 PROTON ACER TENDL-2024 LIBRARY; T=0.K  
Proton emission for (p,x)



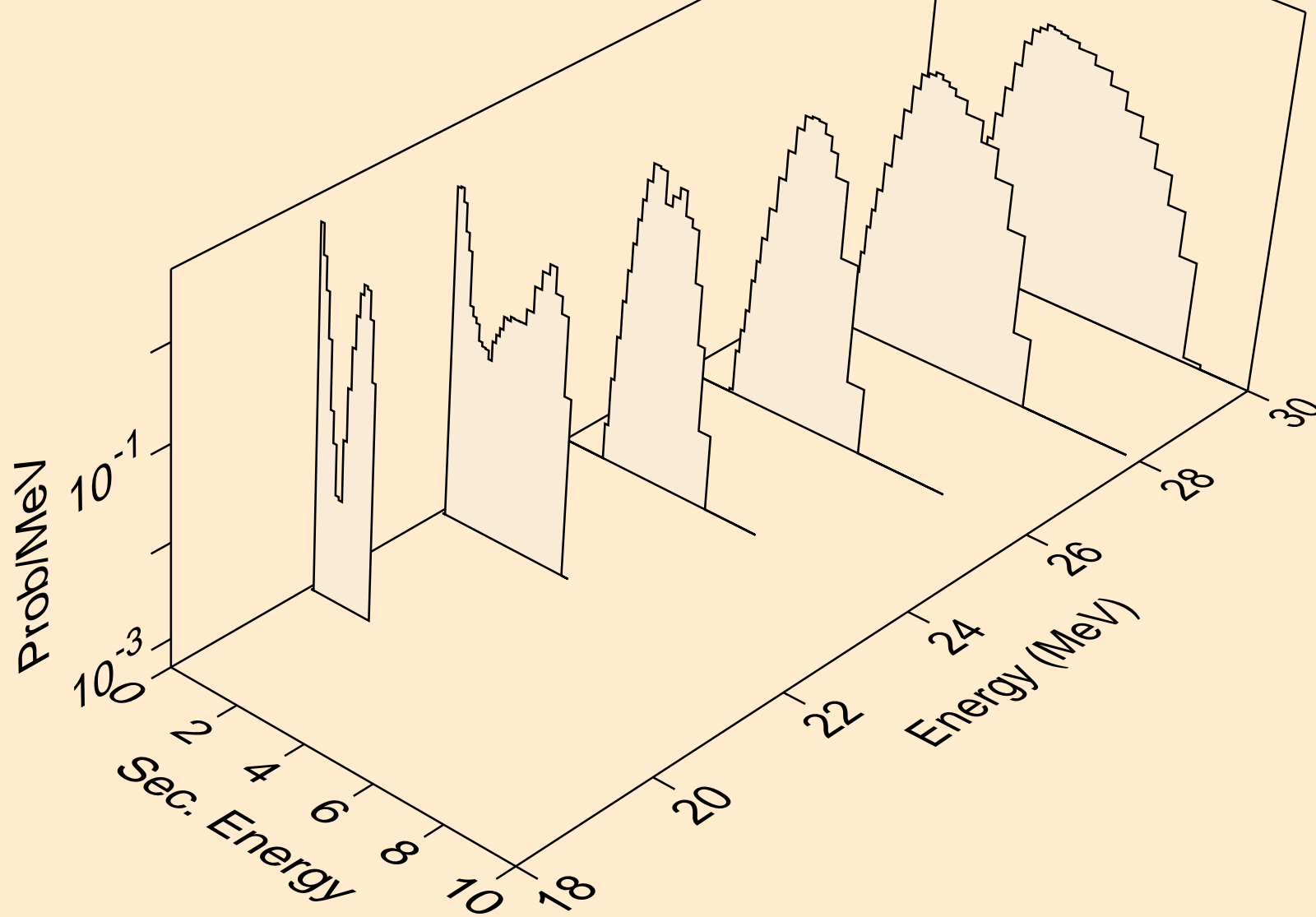
ZR082 PROTON ACER TENDL-2024 LIBRARY; T=0.K  
Proton emission for (p,n\*)p



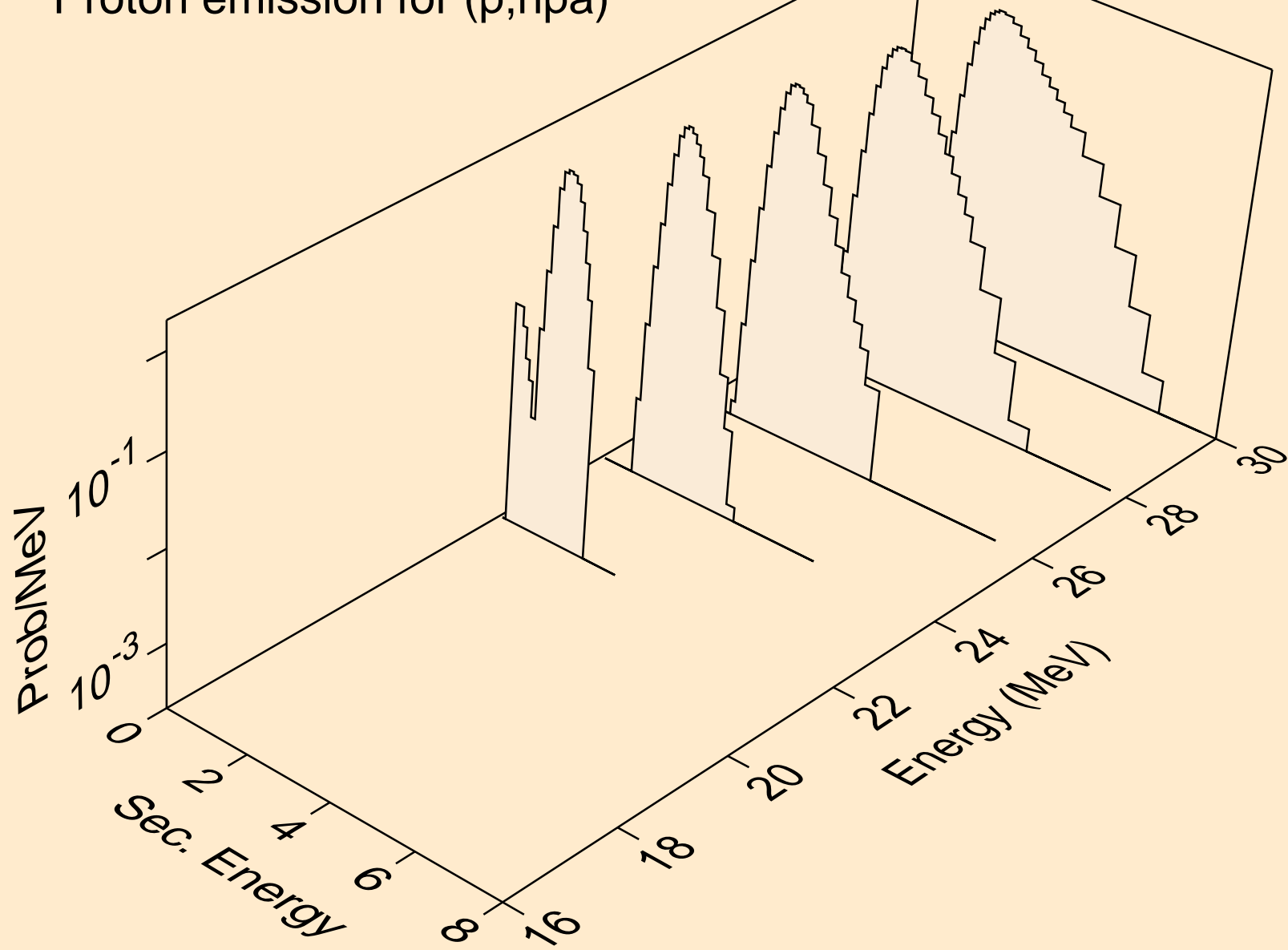
ZR082 PROTON ACER TENDL-2024 LIBRARY; T=0.K  
Proton emission for (p,2np)



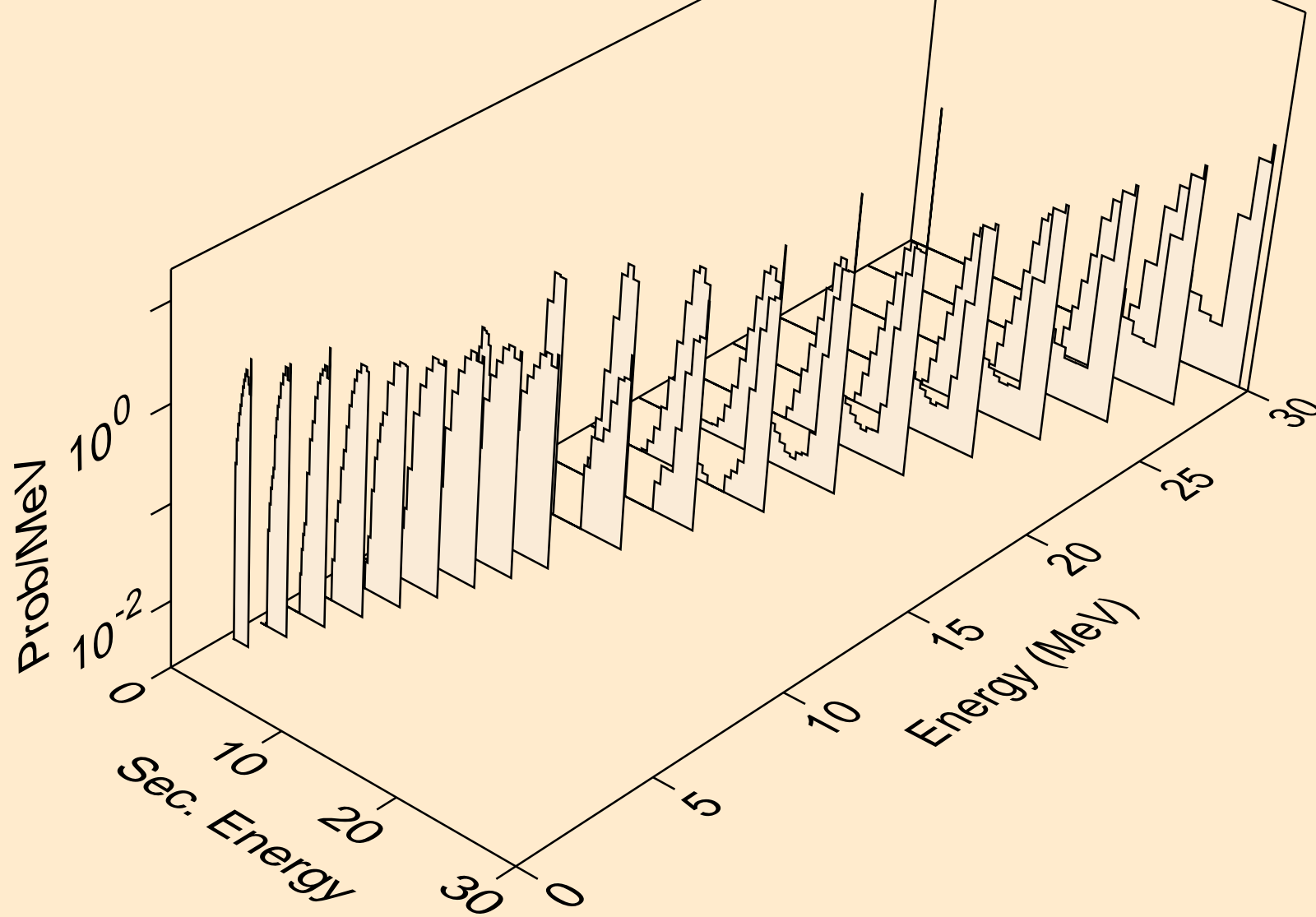
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Proton emission for (p,n2p)



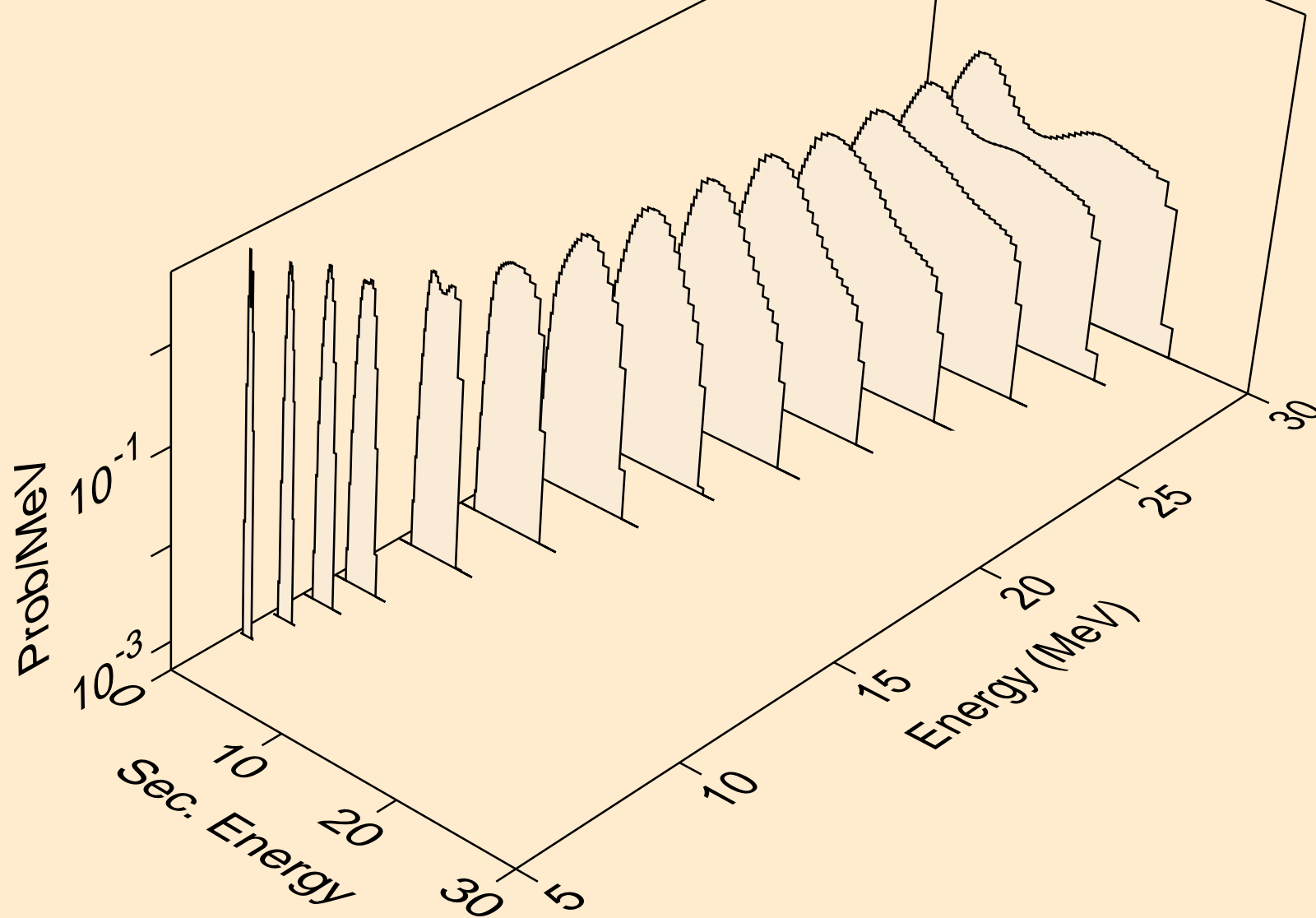
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Proton emission for (p,npa)



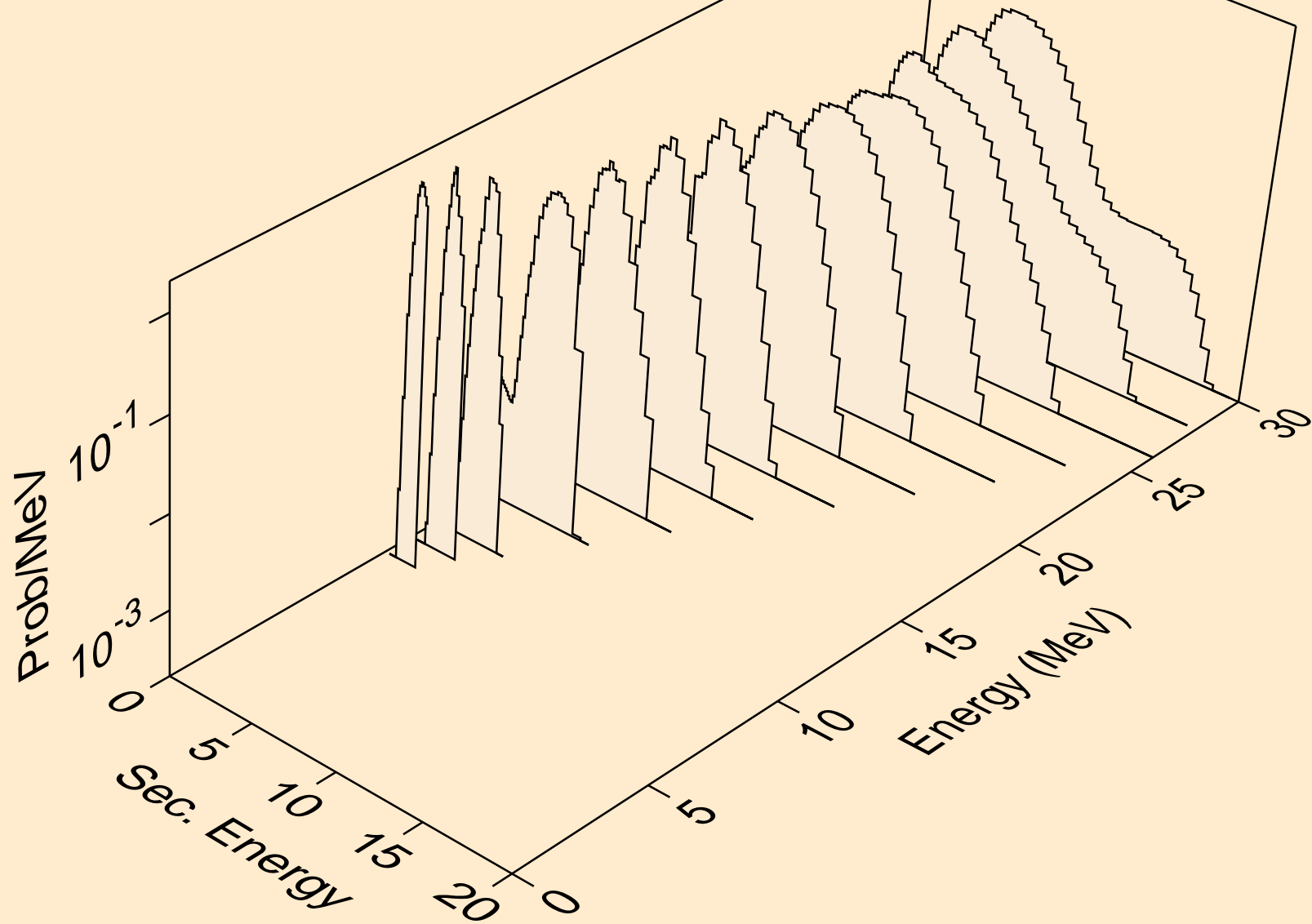
ZR082 PROTON ACER TENDL-2024 LIBRARY; T=0.K  
Proton emission for inelastic



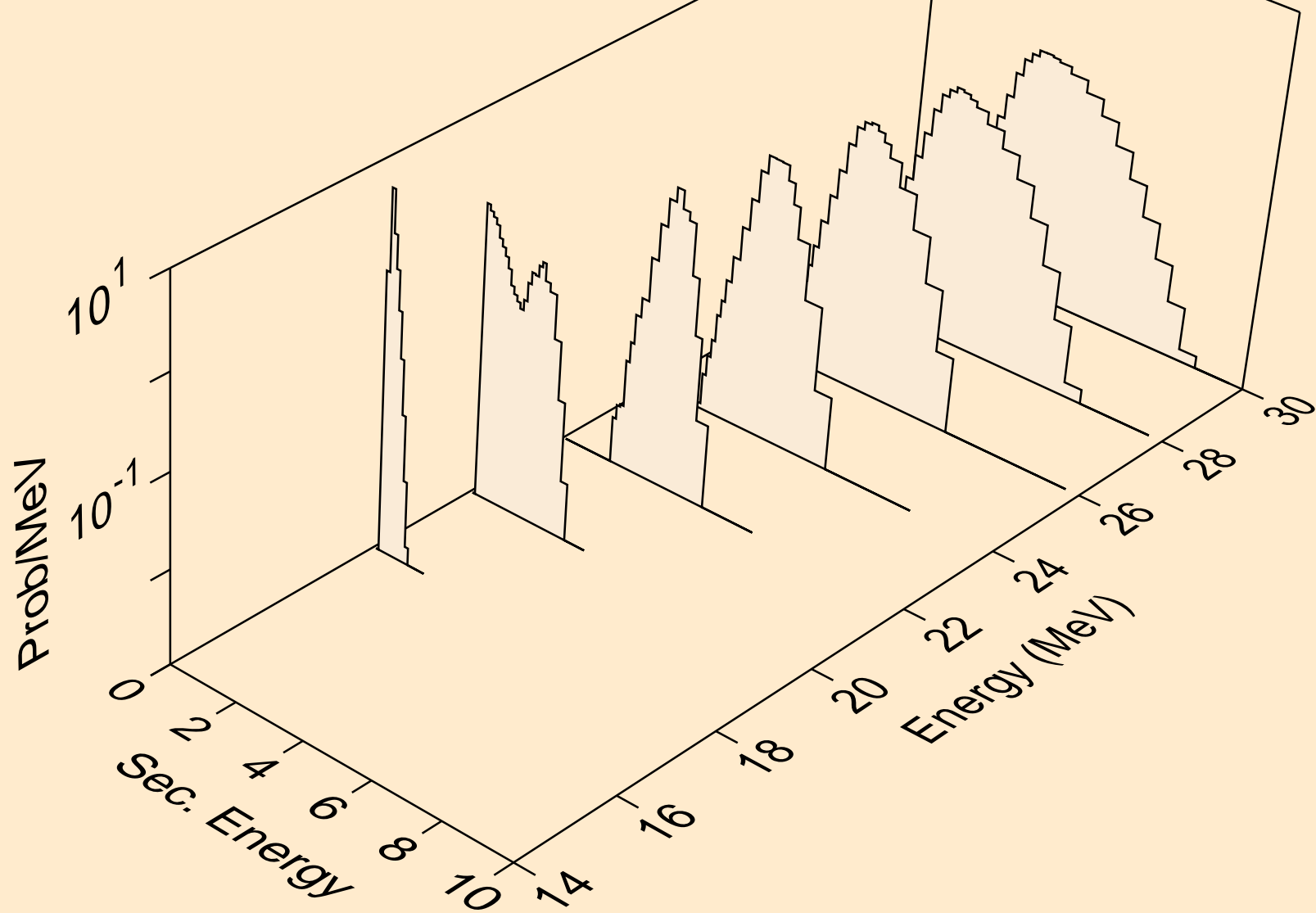
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Proton emission for (p,2p)



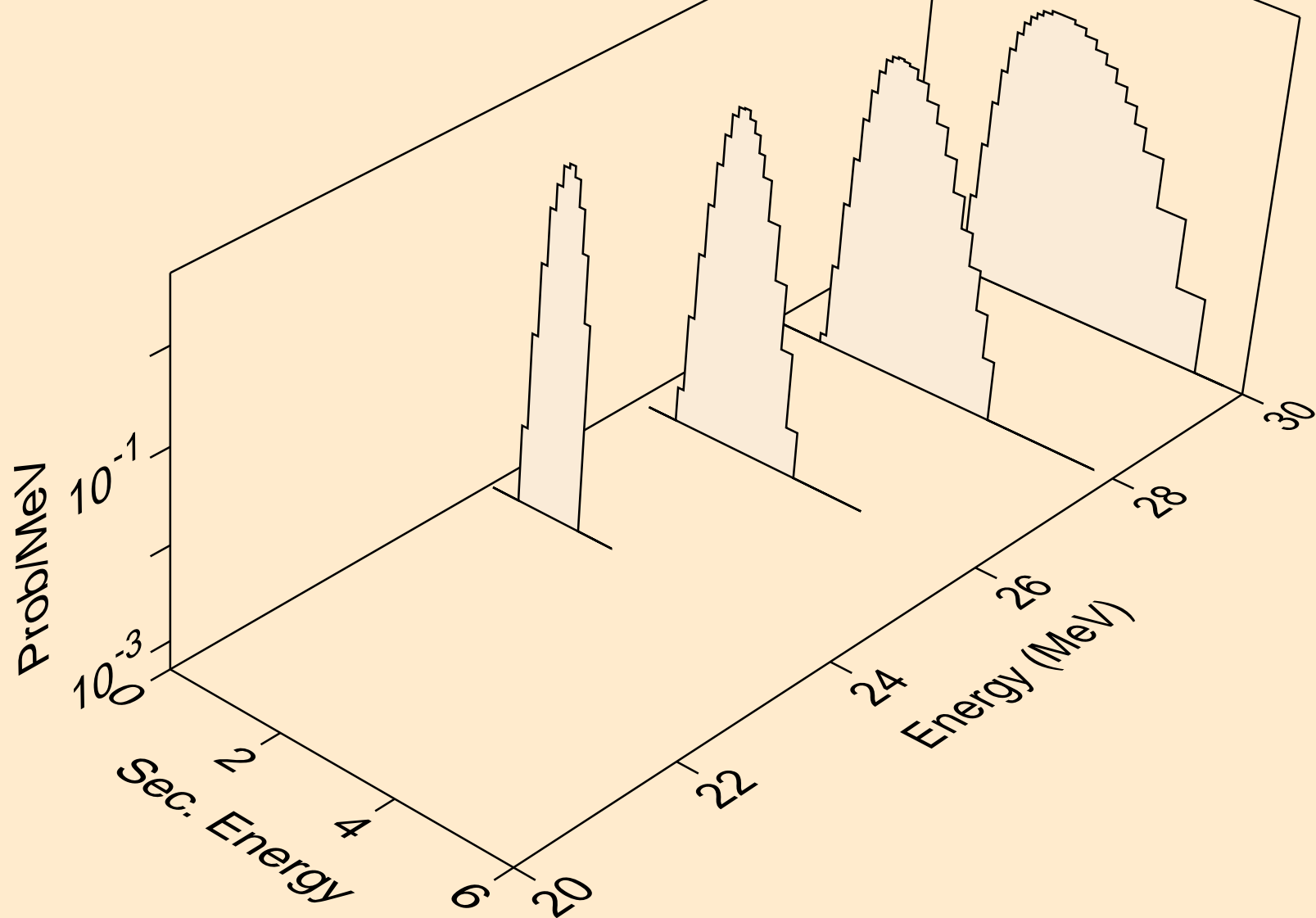
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Proton emission for (p,pa)



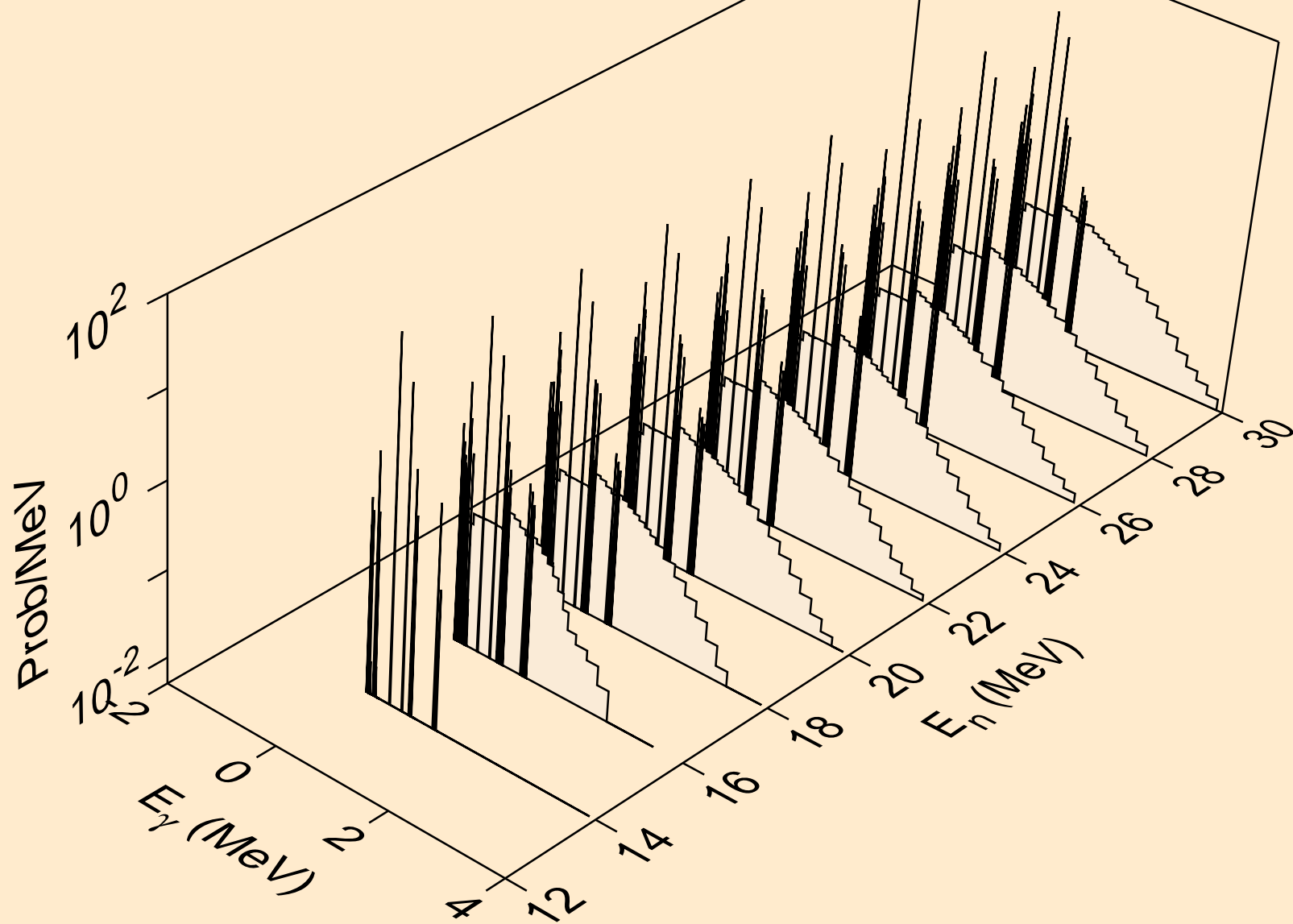
ZR082 PROTON ACER TENDL-2024 LIBRARY; T=0.K  
Proton emission for (p,pd)



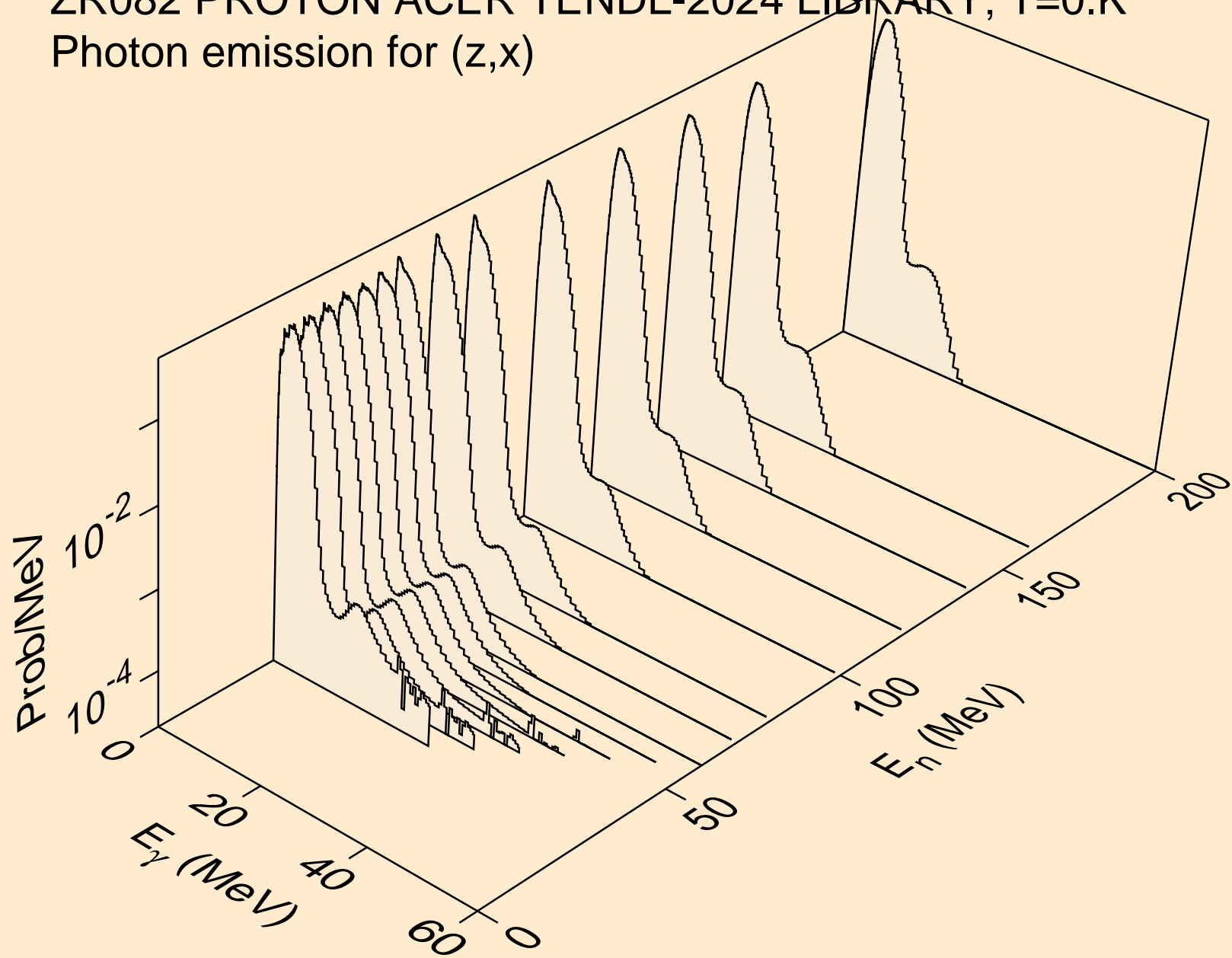
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Proton emission for (p,pt)



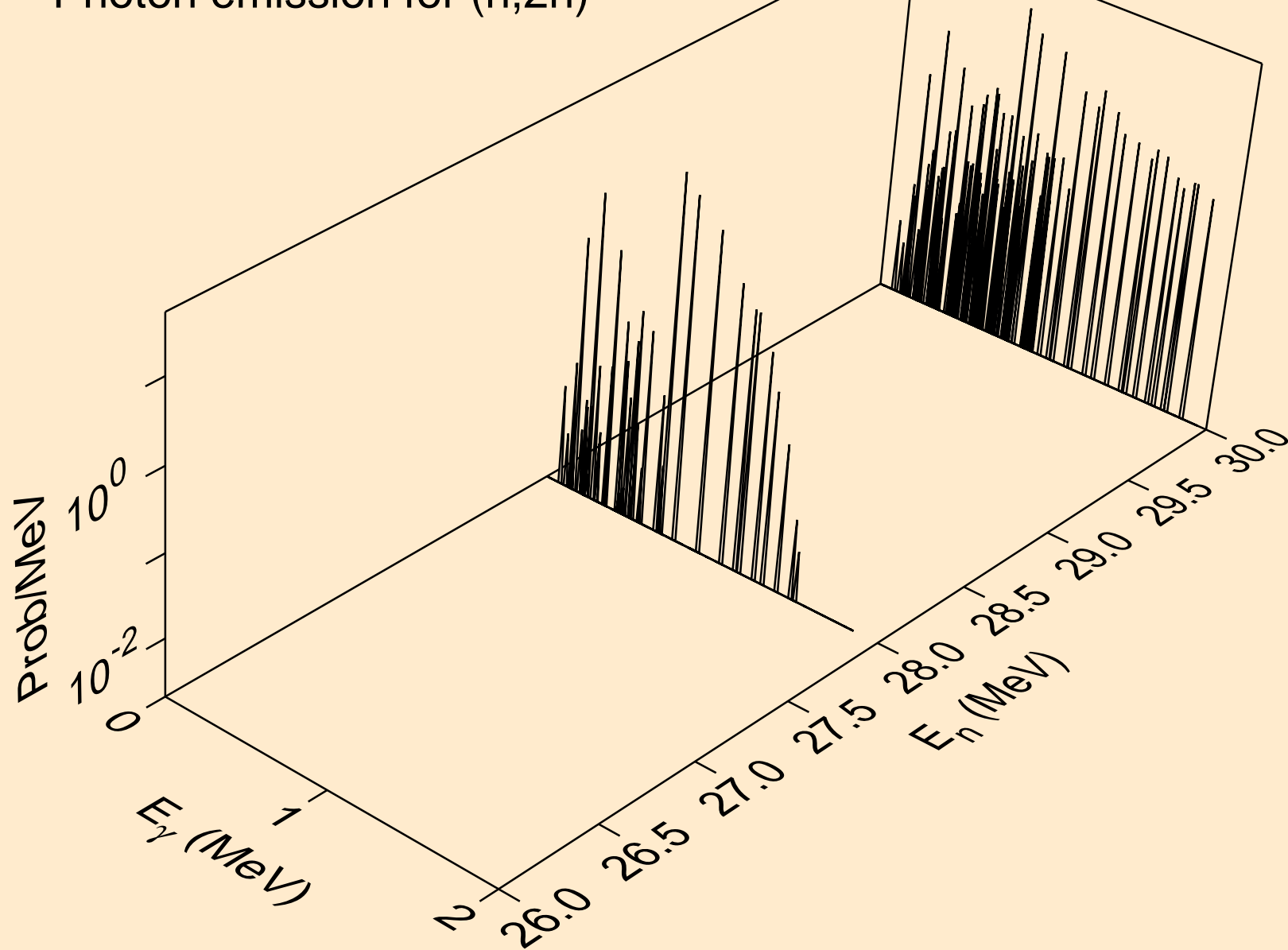
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Photon emission for (z,n)



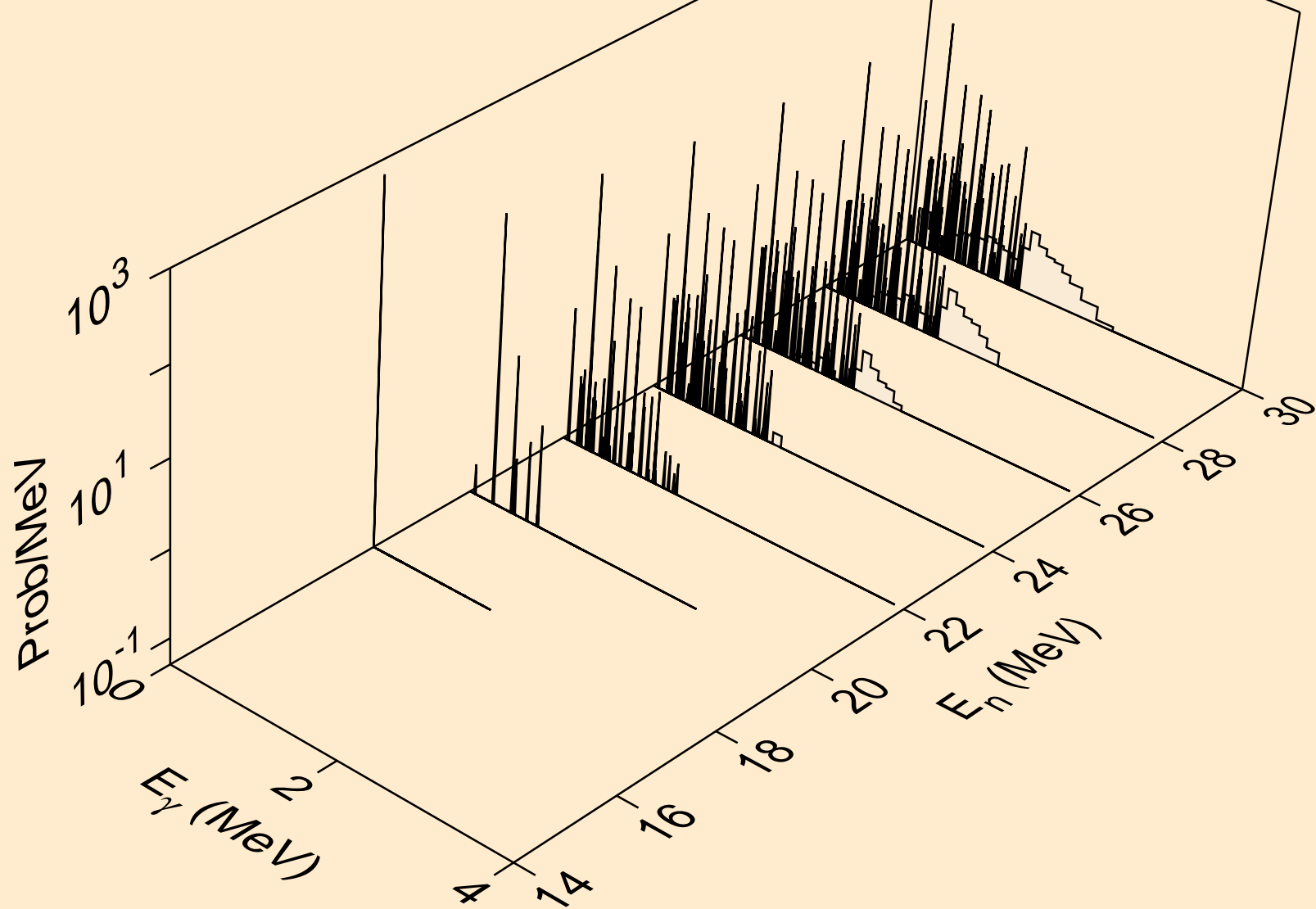
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Photon emission for (z,x)



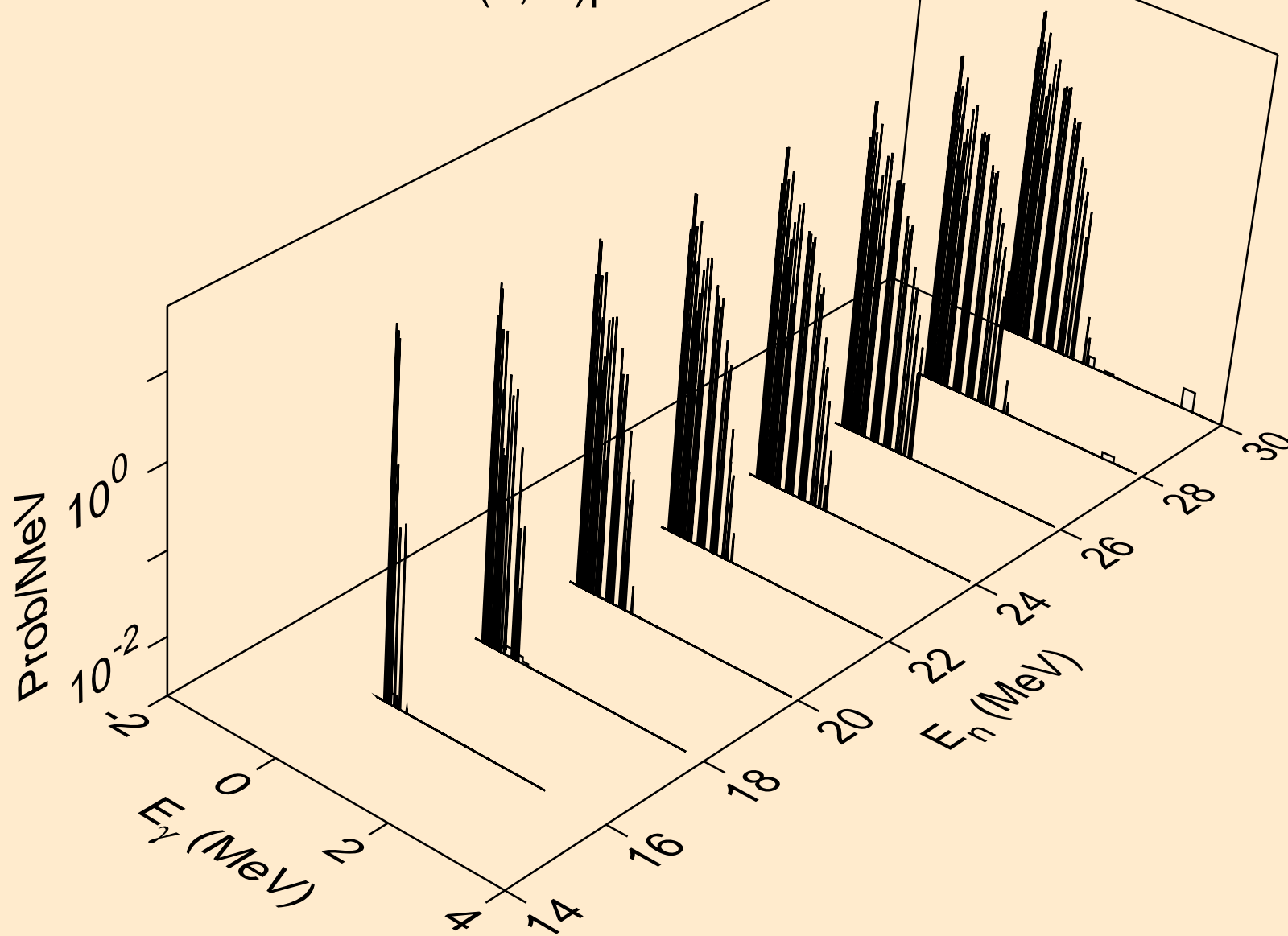
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Photon emission for (n,2n)



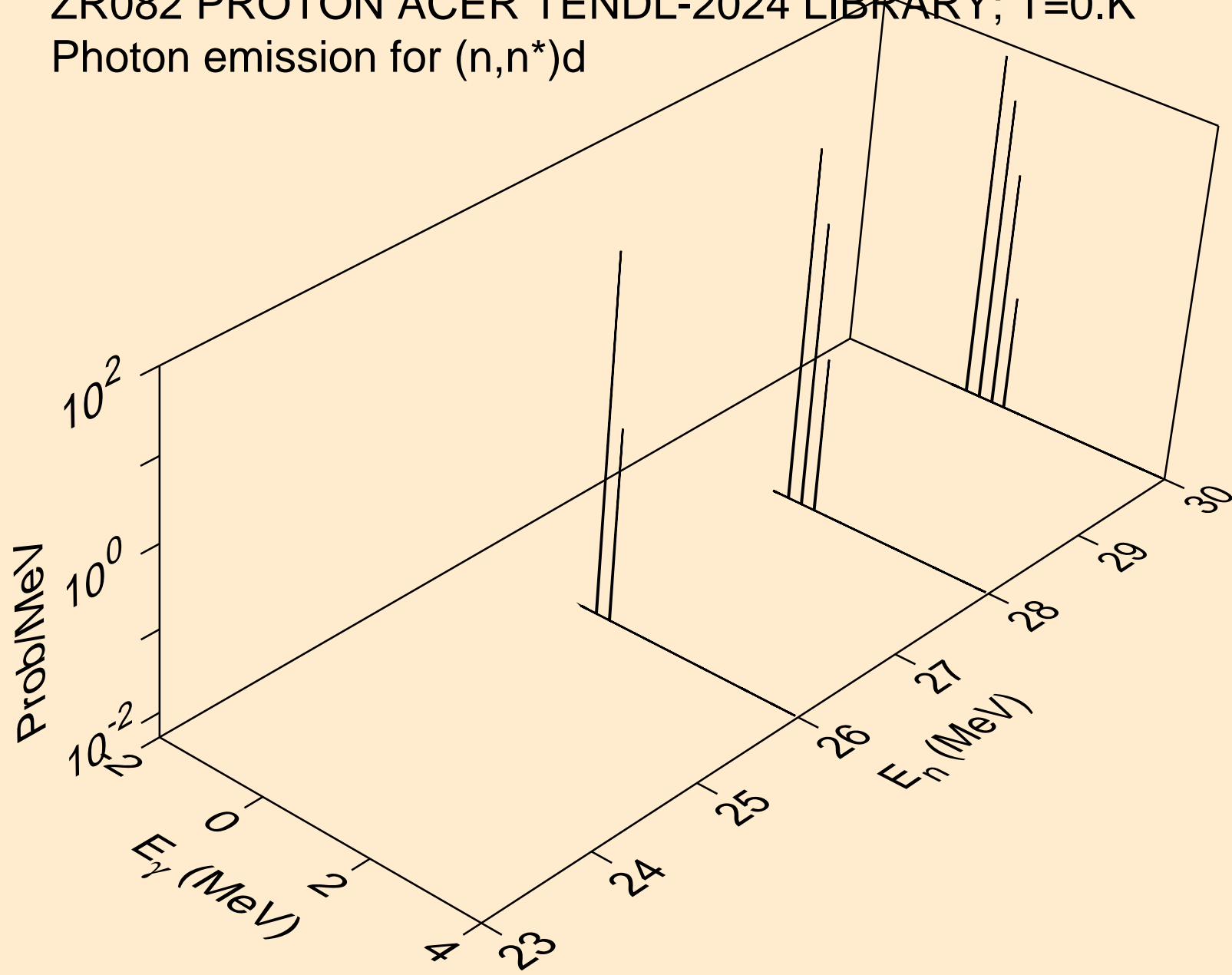
ZR082 PROTON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,n\*)a



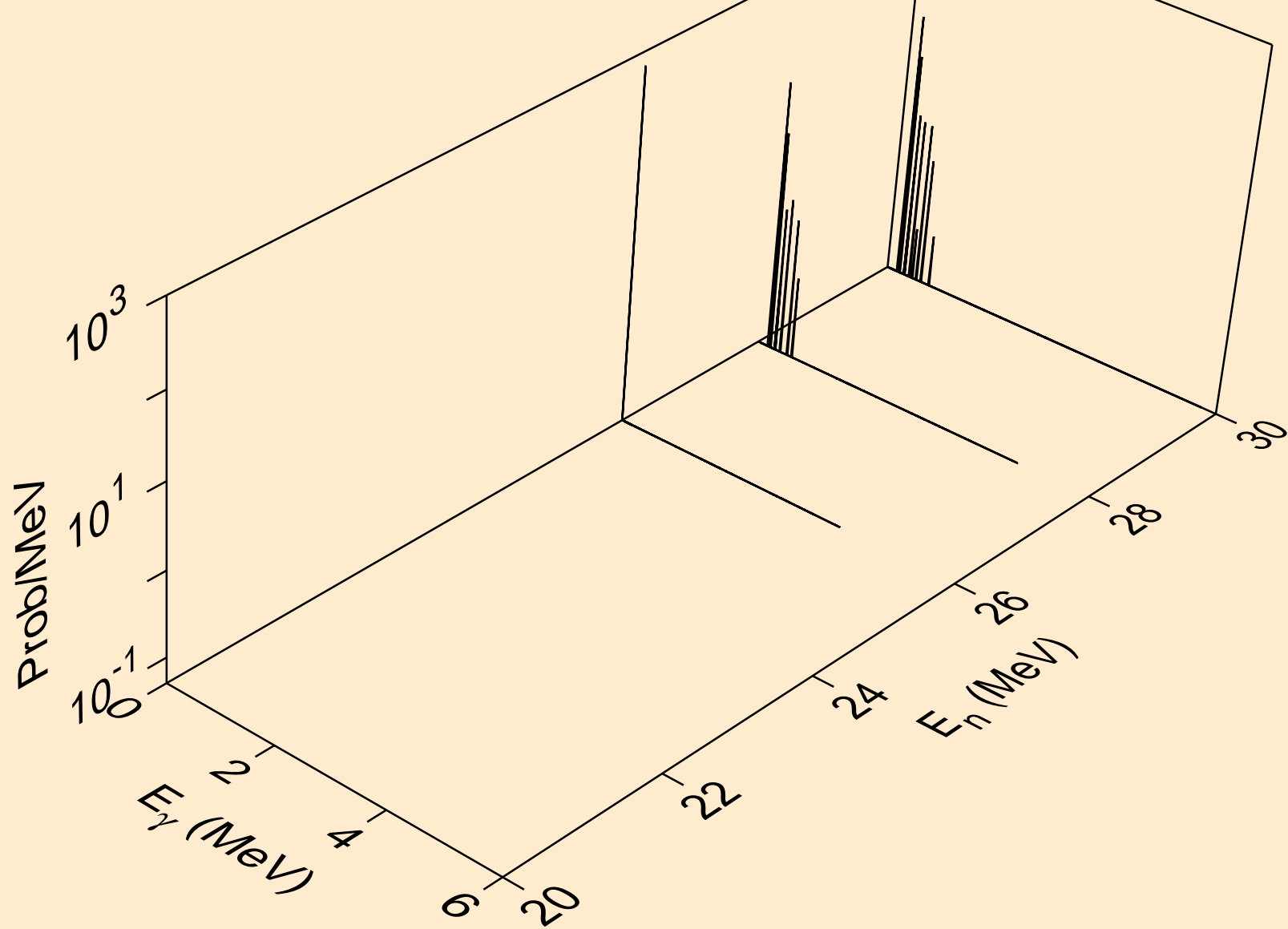
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Photon emission for (n,n\*)p



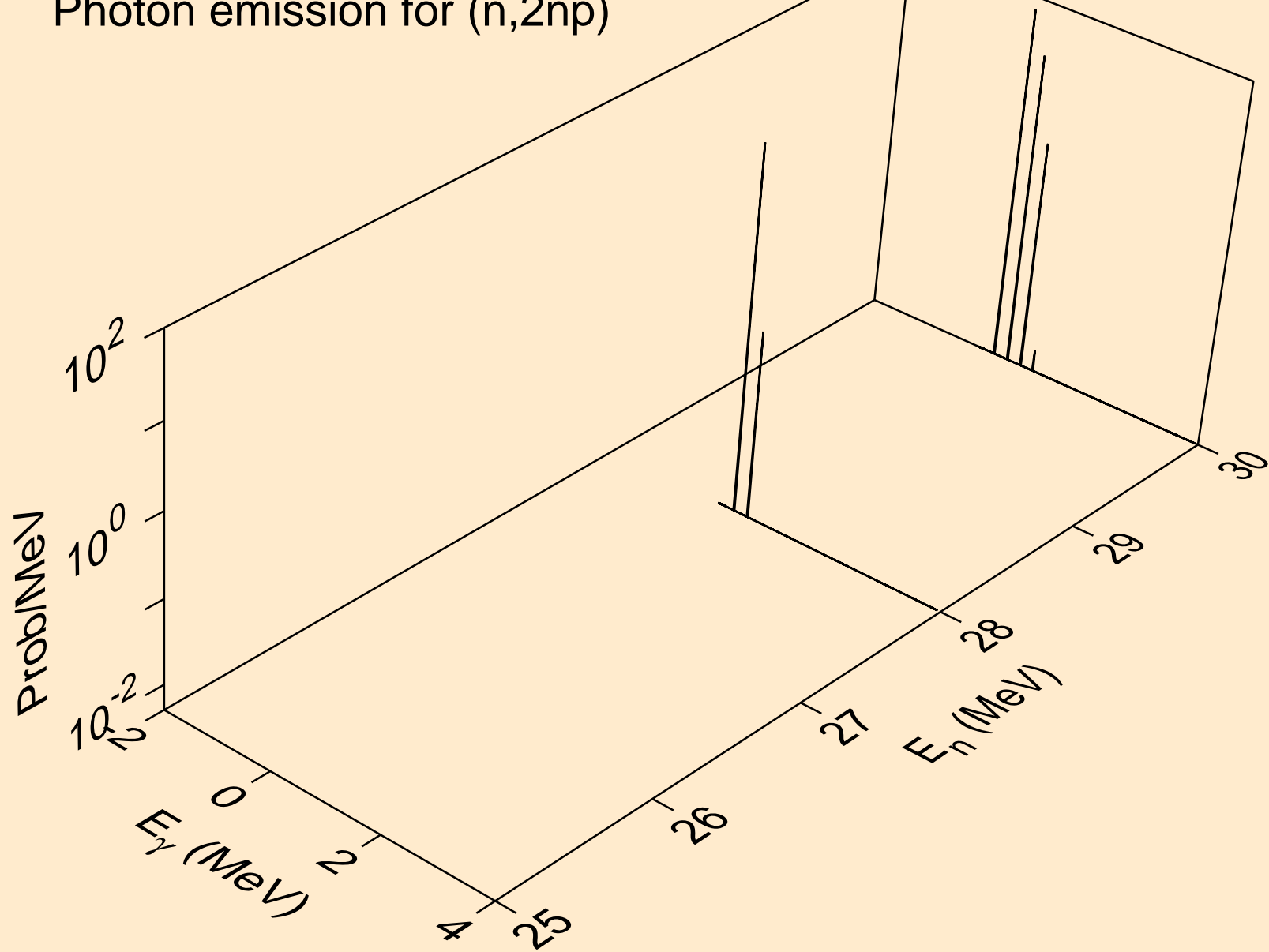
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Photon emission for (n,n\*)d



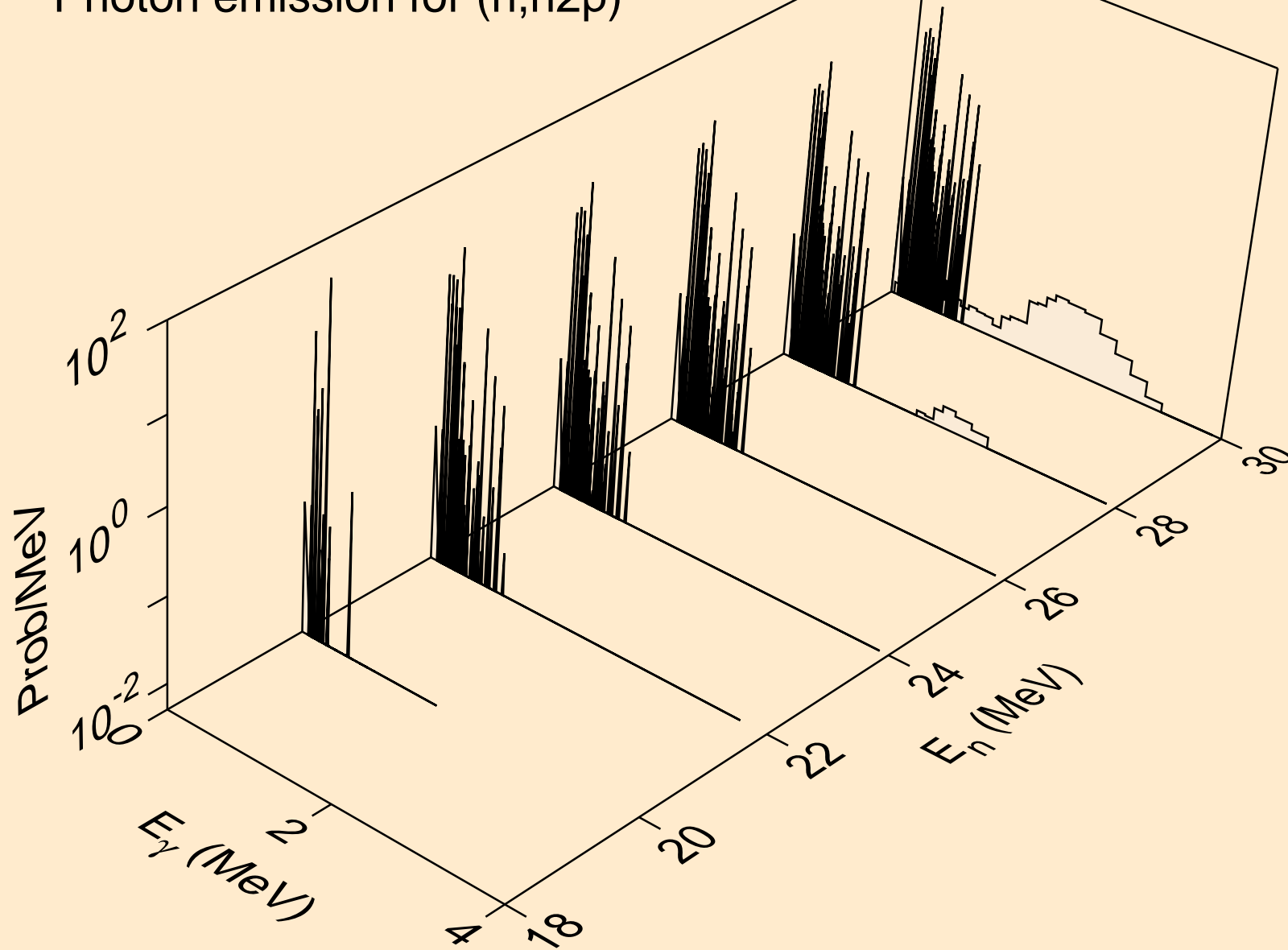
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Photon emission for (n,n\*)he3



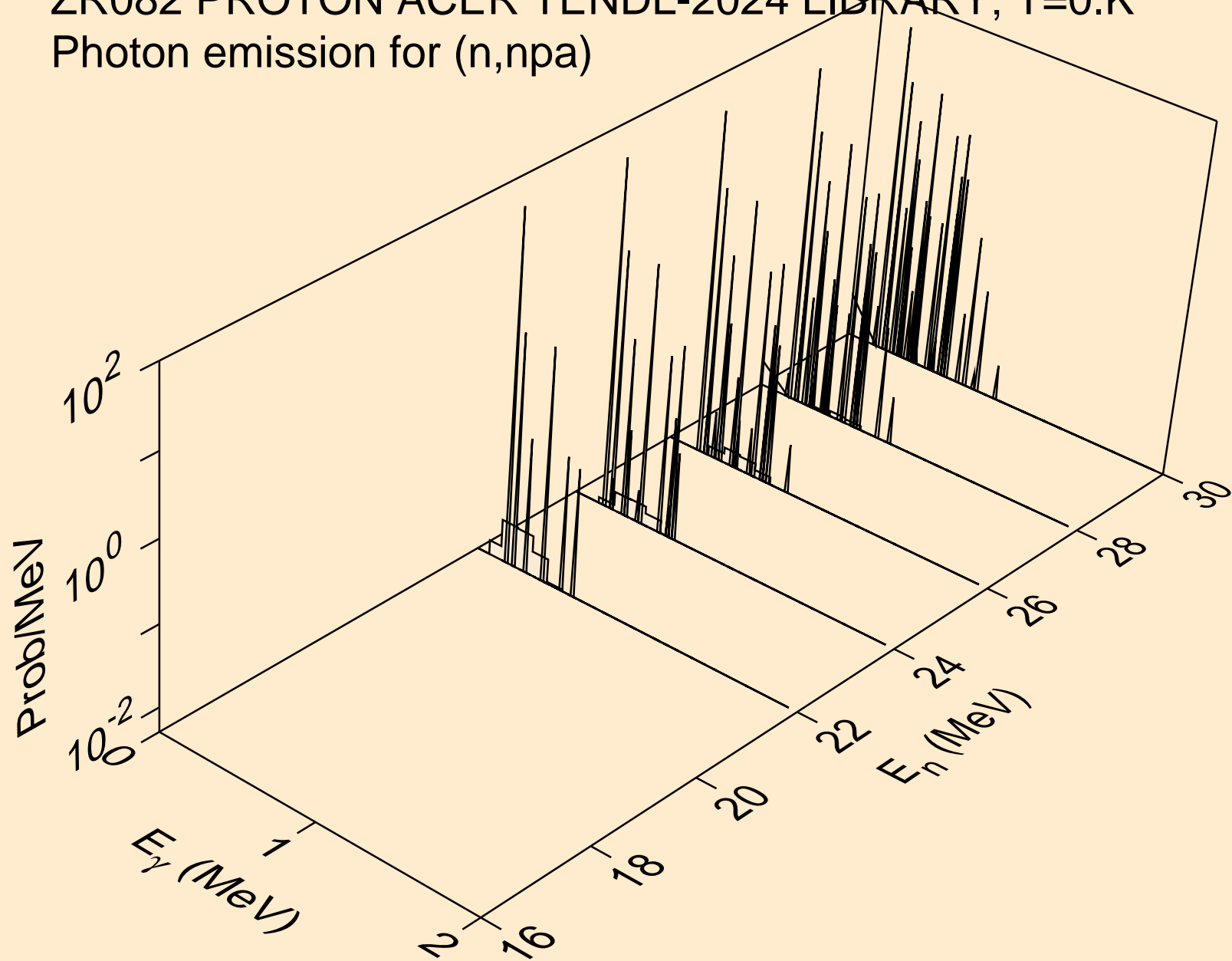
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Photon emission for (n,2np)



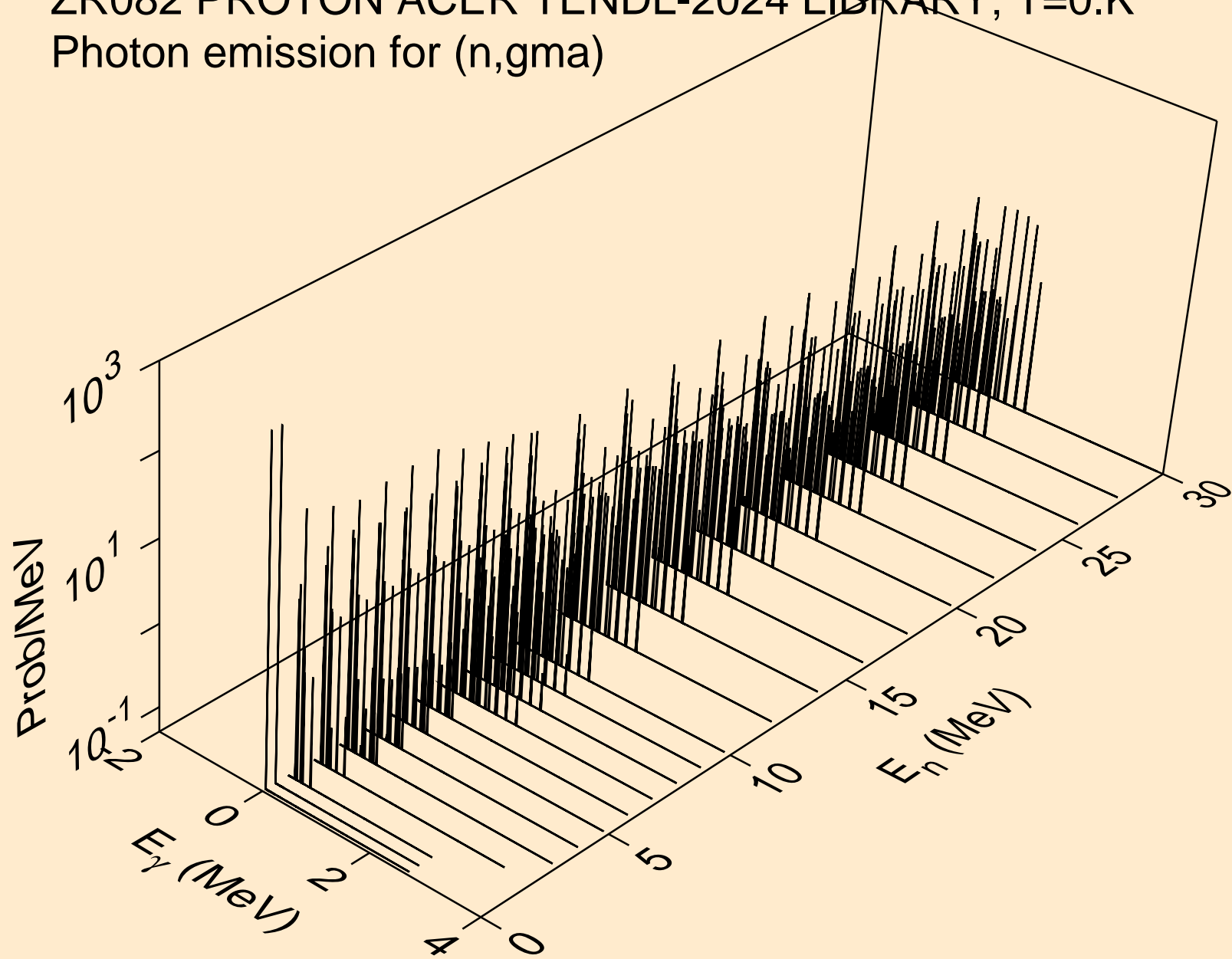
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Photon emission for (n,n2p)



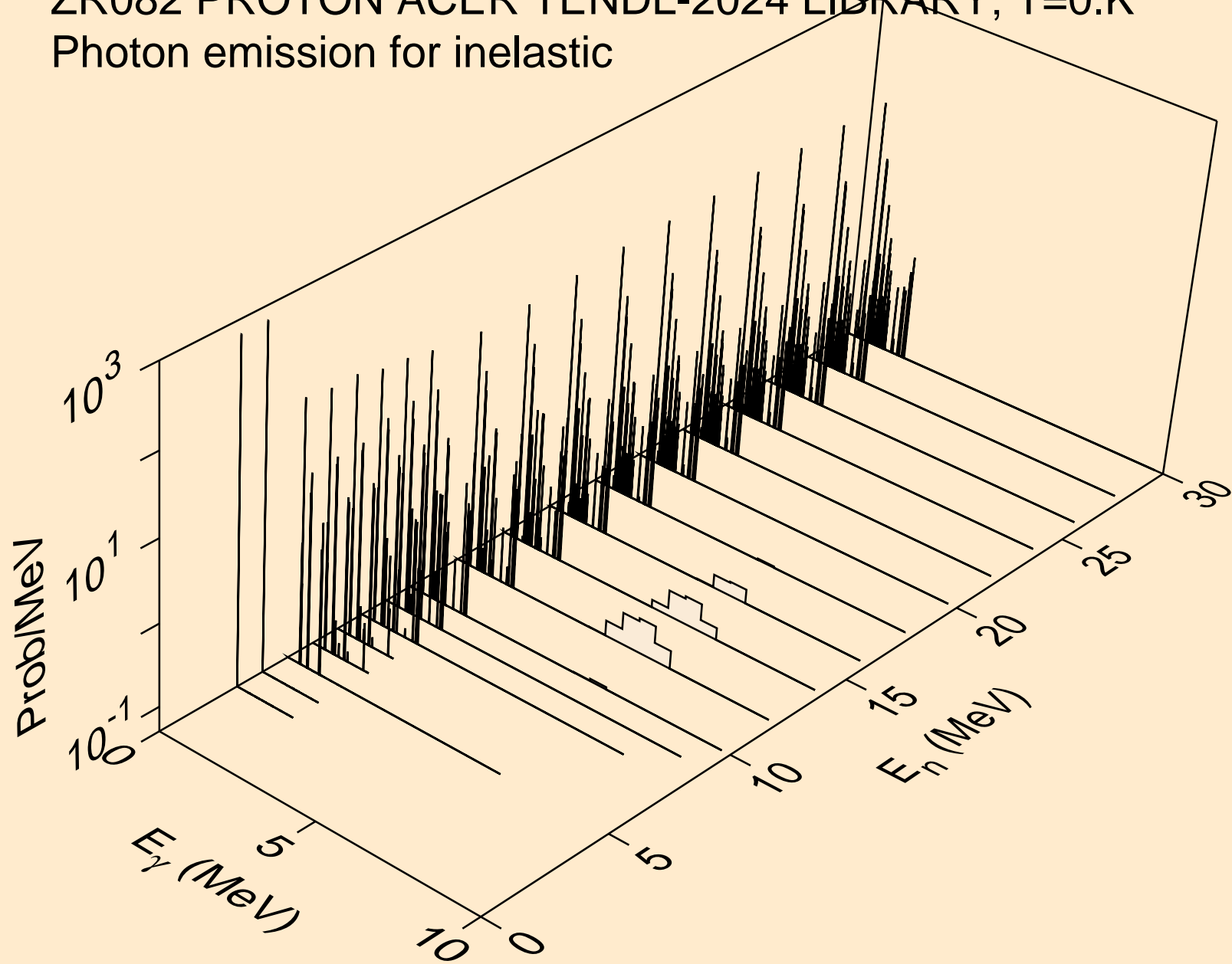
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Photon emission for (n,npa)



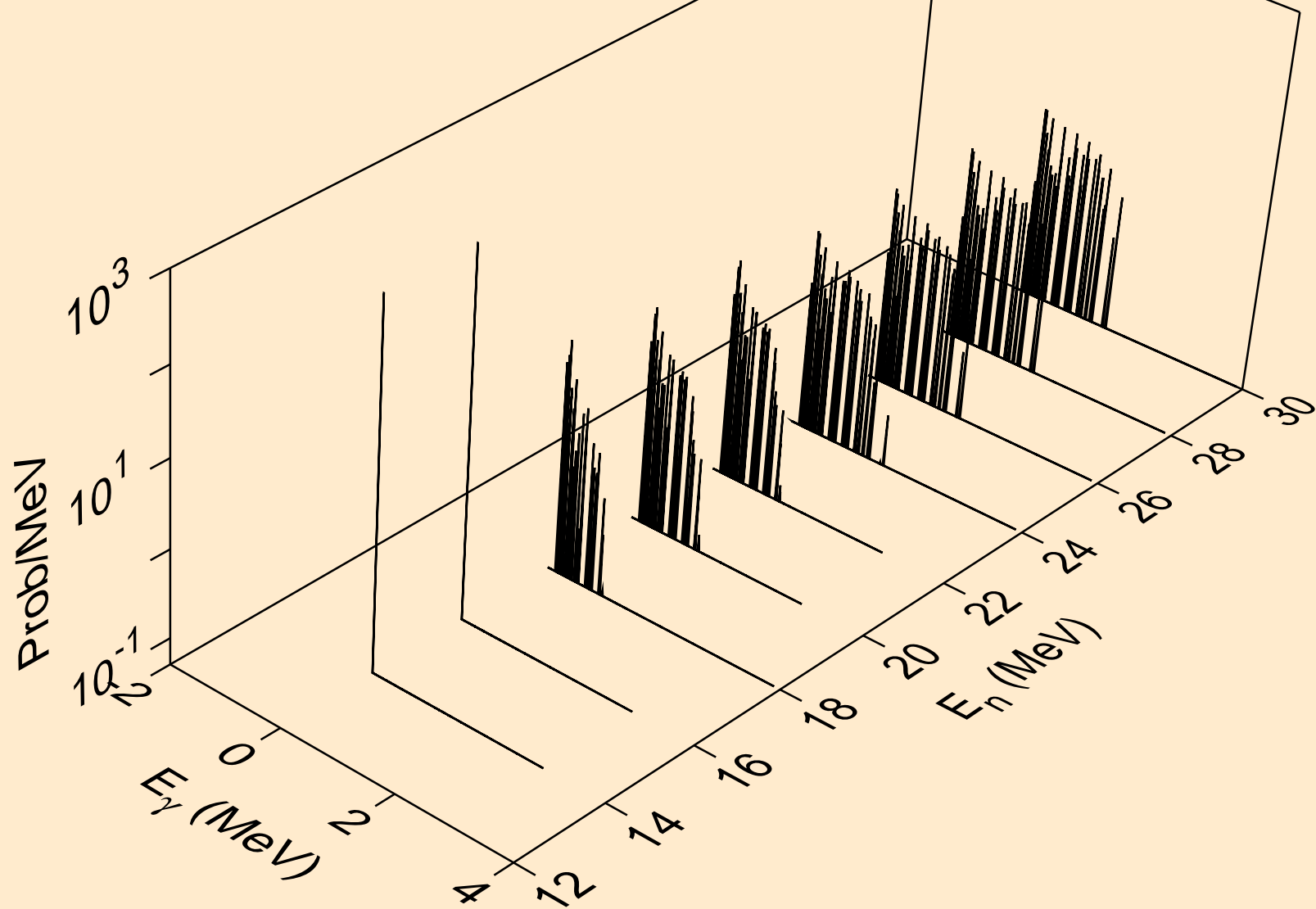
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Photon emission for (n,gma)



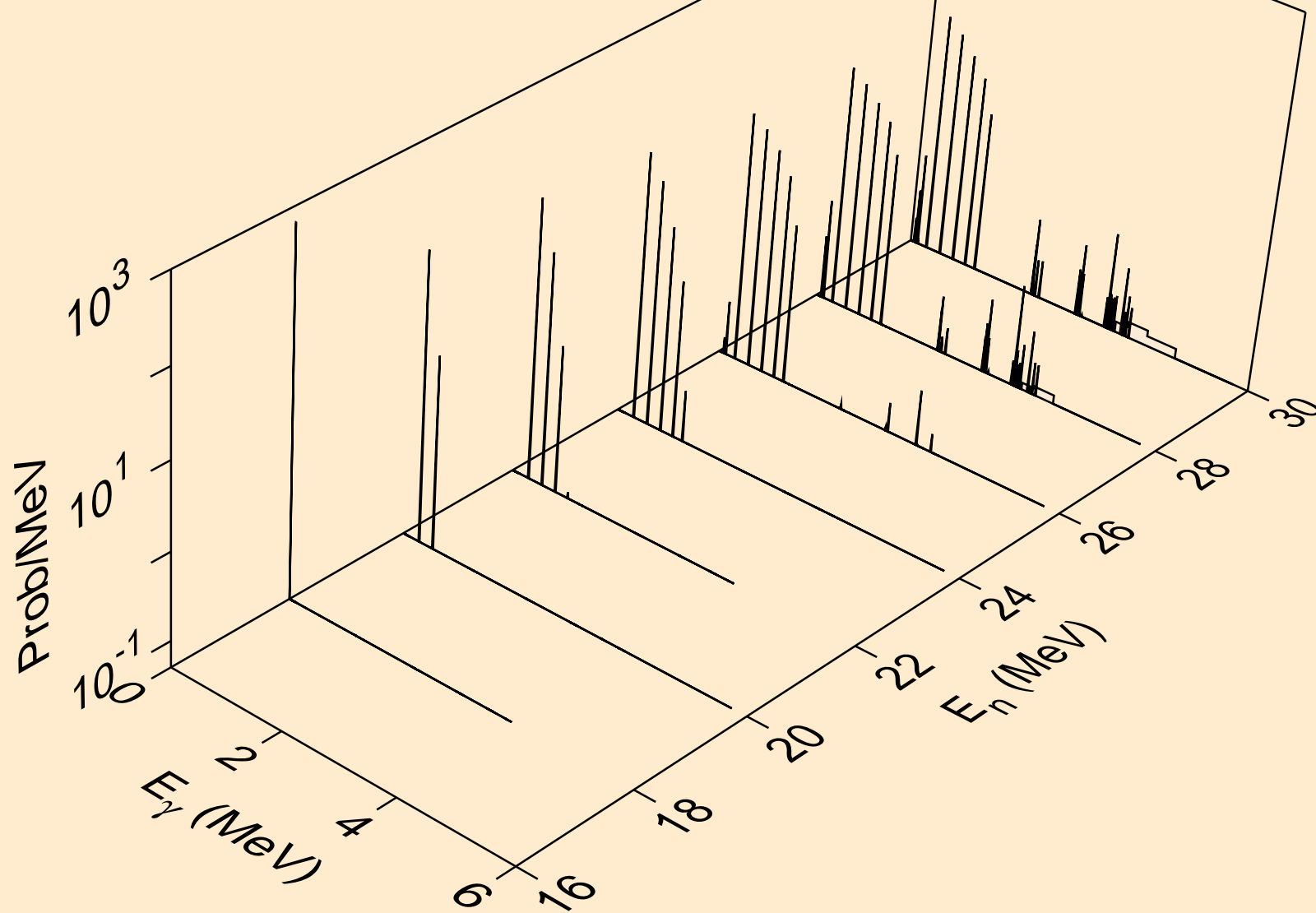
ZR082 PROTON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for inelastic



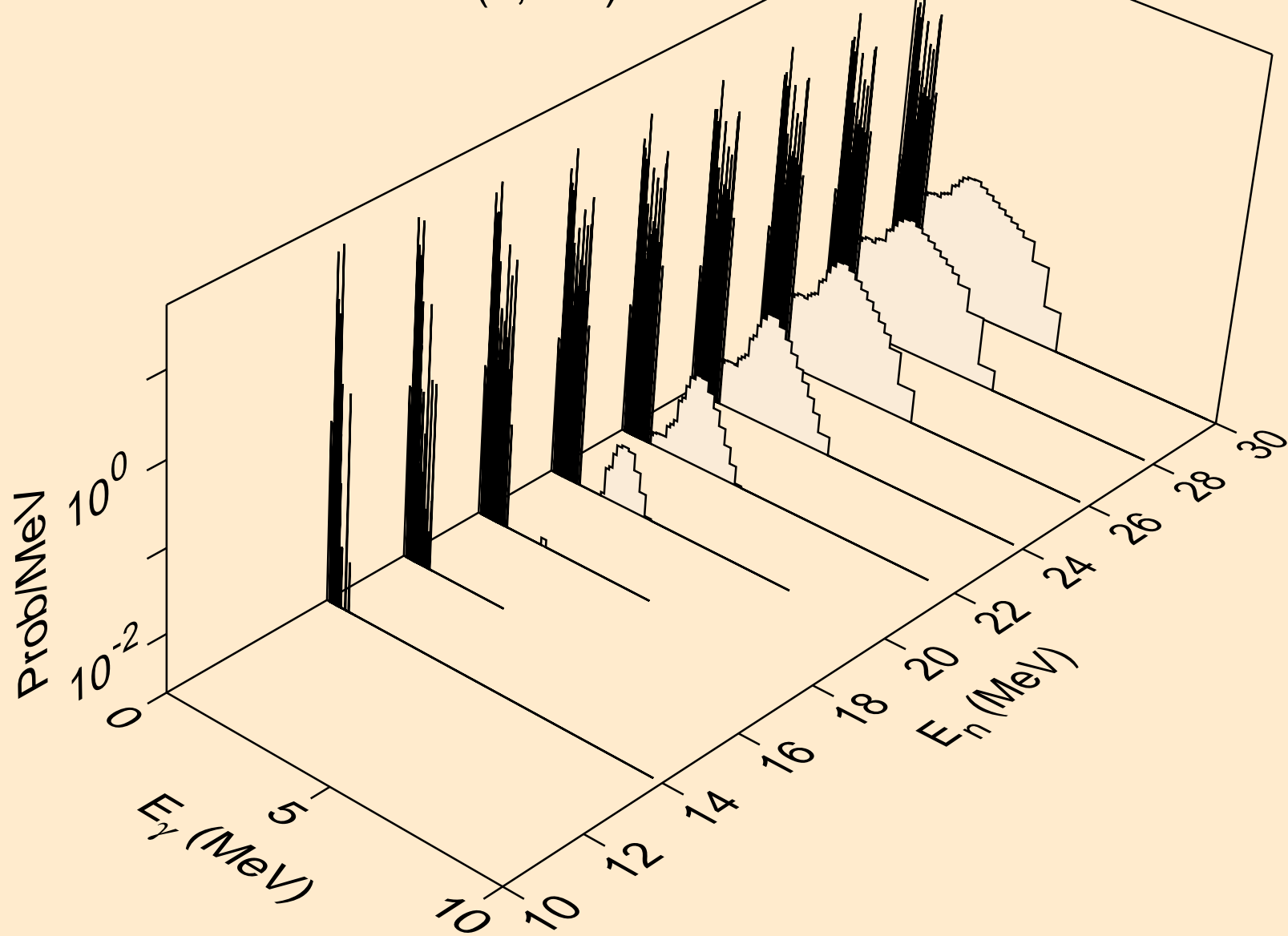
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Photon emission for (n,d)



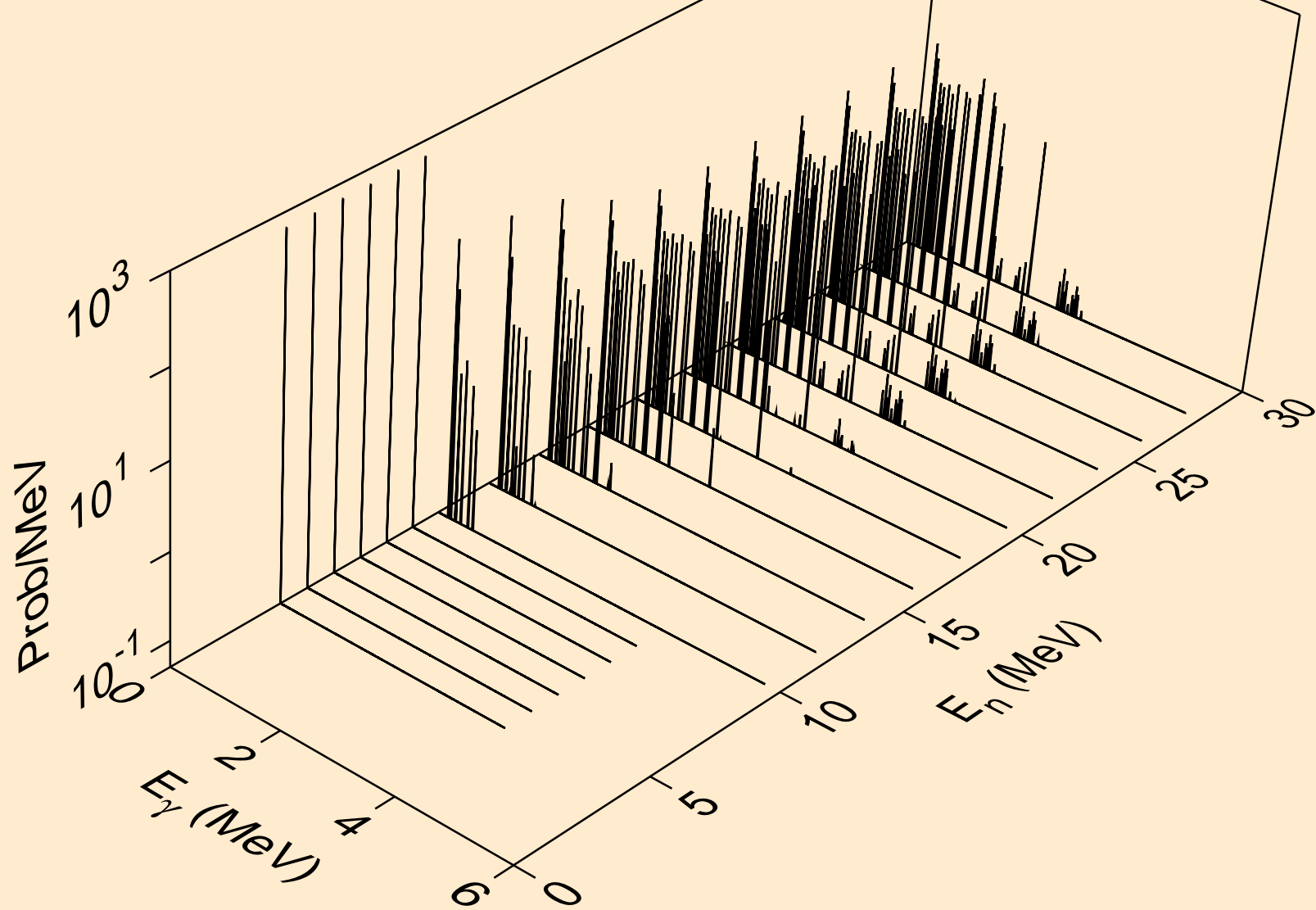
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Photon emission for (n,t)



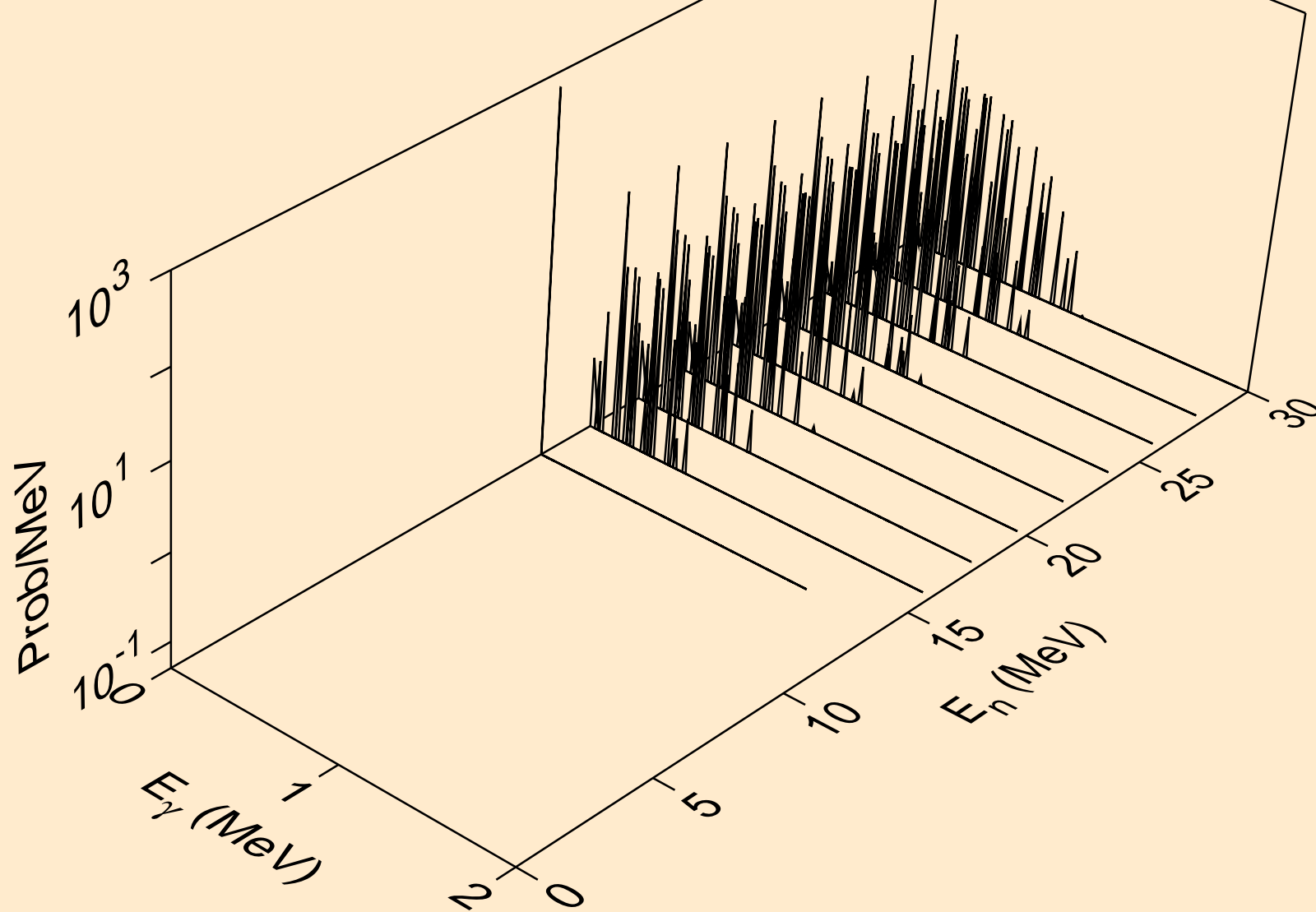
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Photon emission for (n,he3)



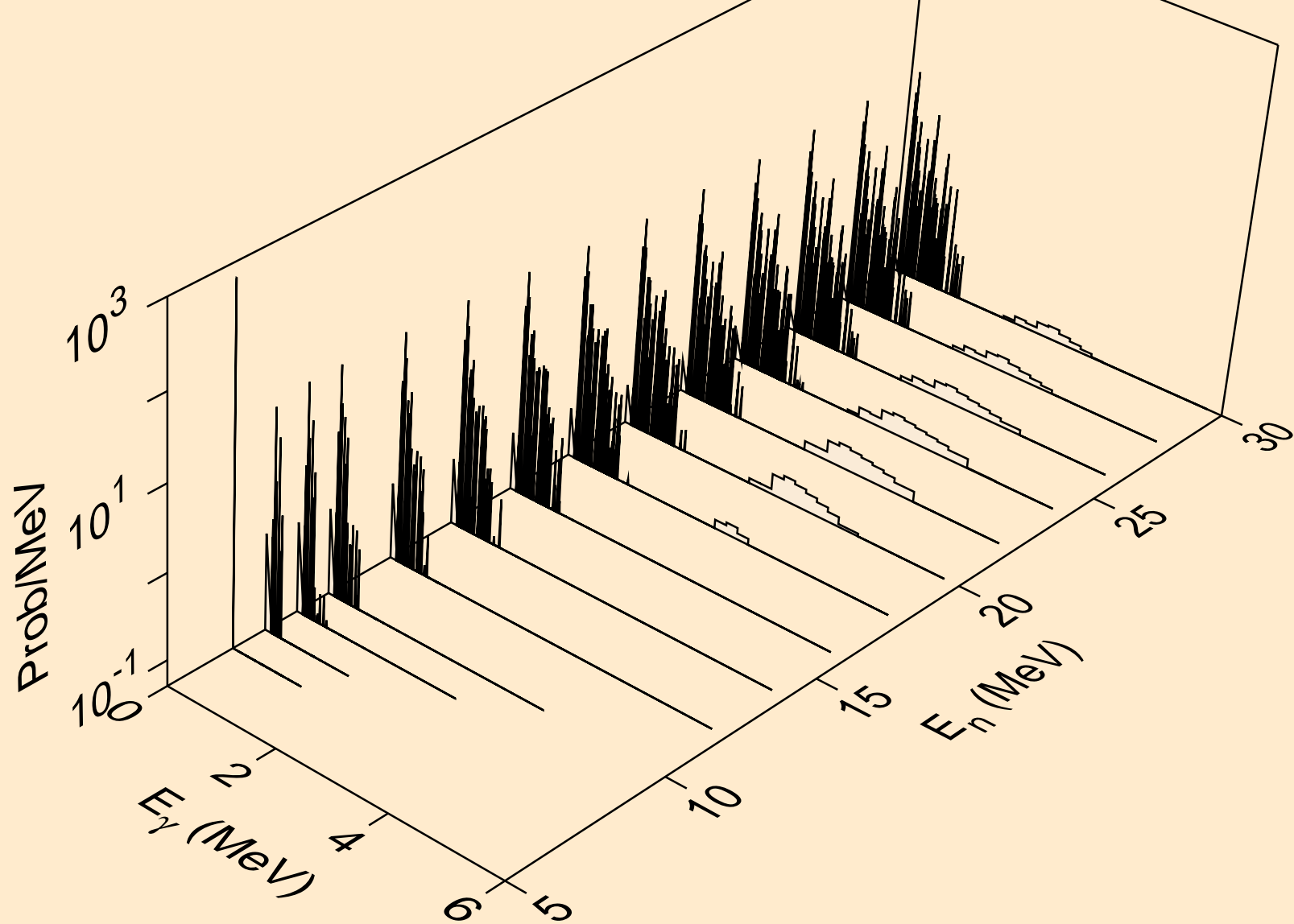
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Photon emission for (n,a)



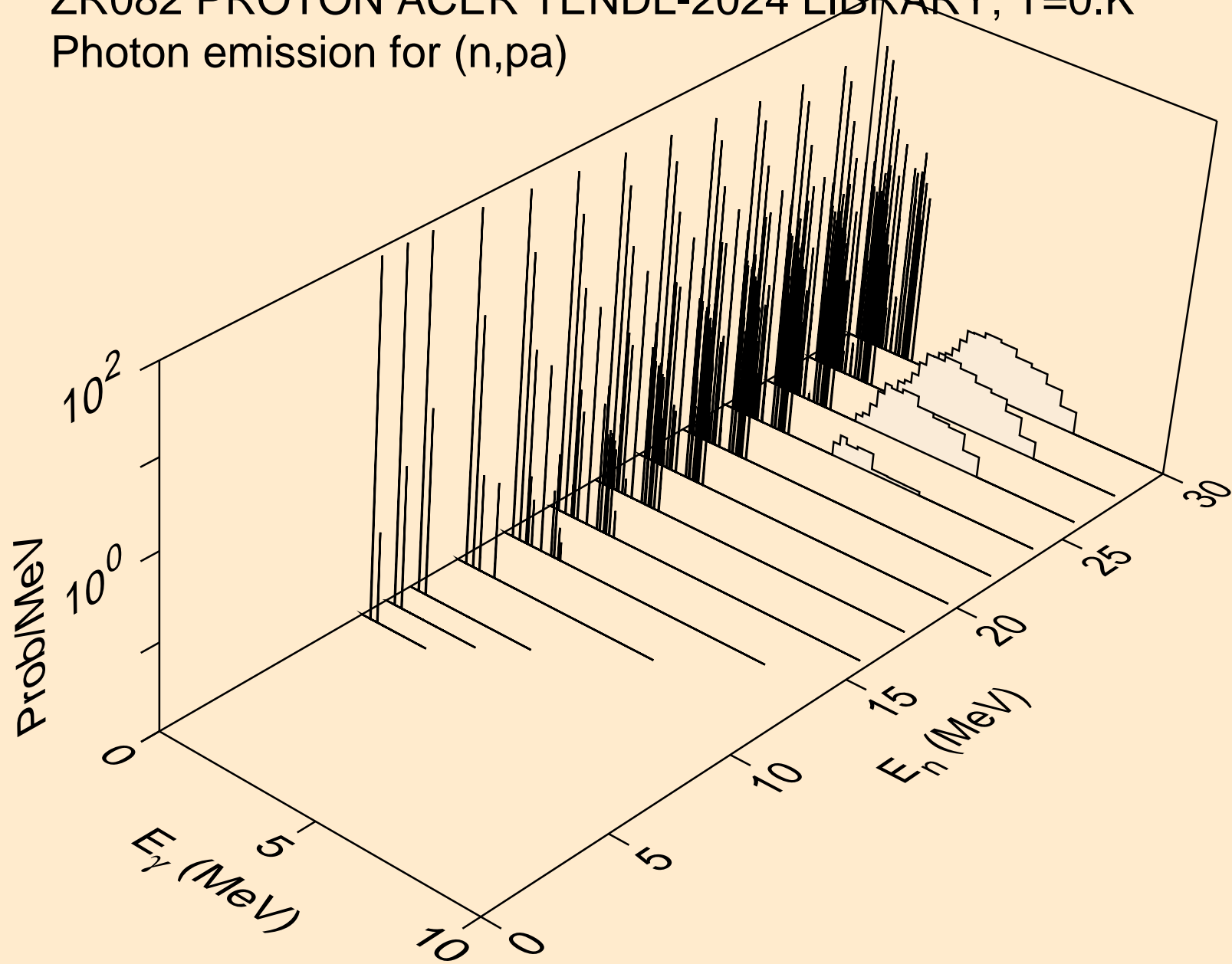
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Photon emission for (n,2a)



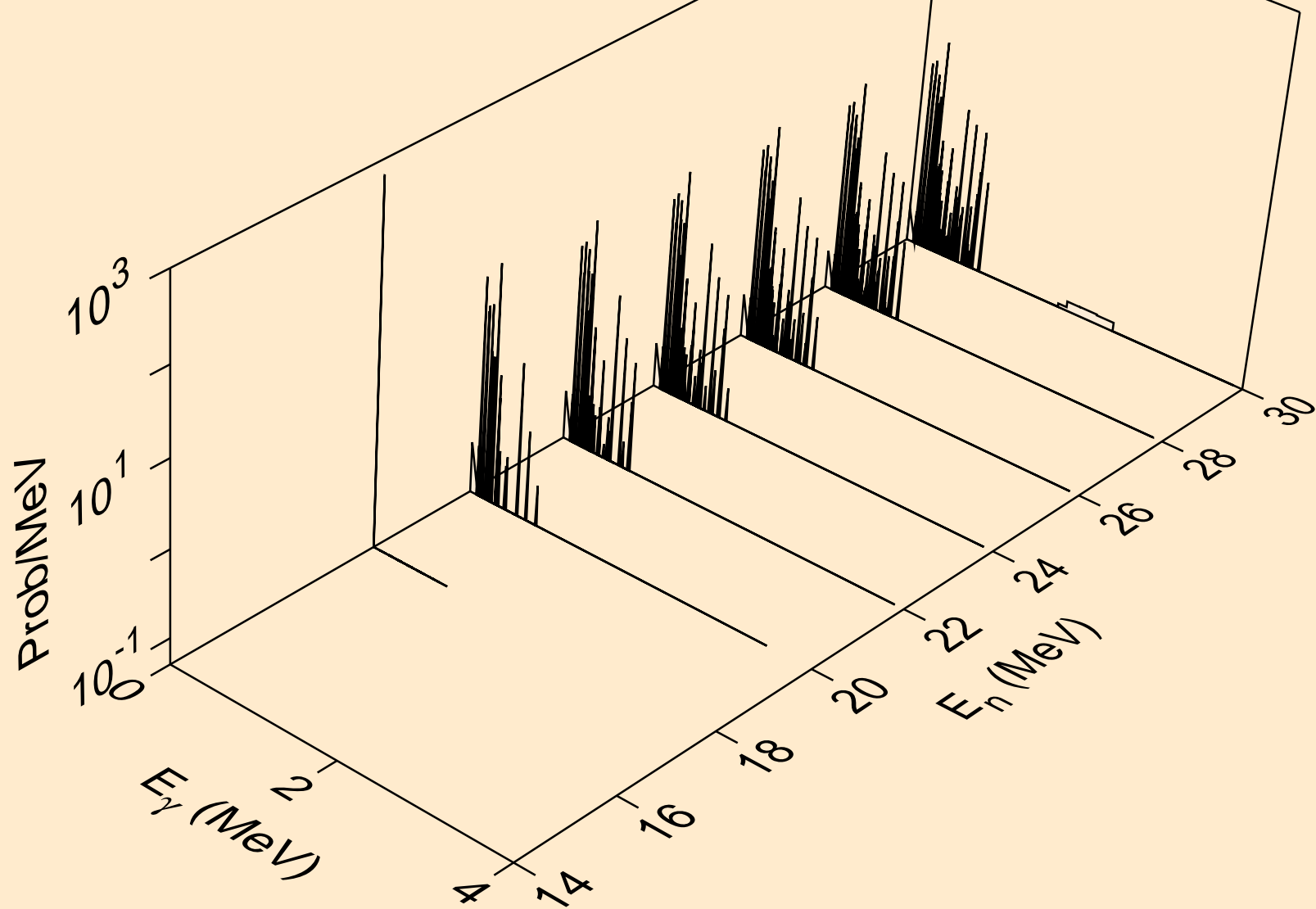
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Photon emission for (n,2p)



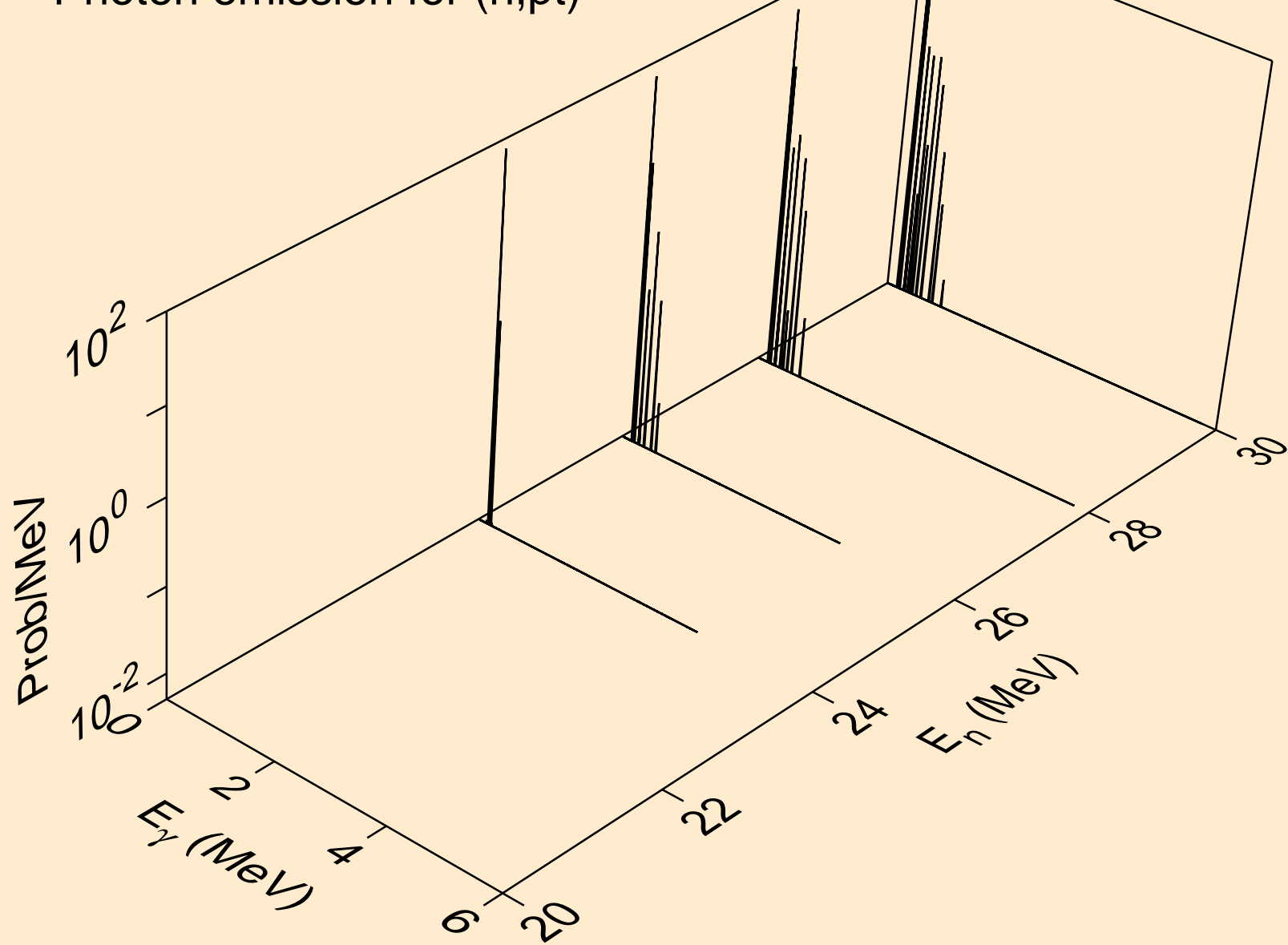
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Photon emission for (n,pa)



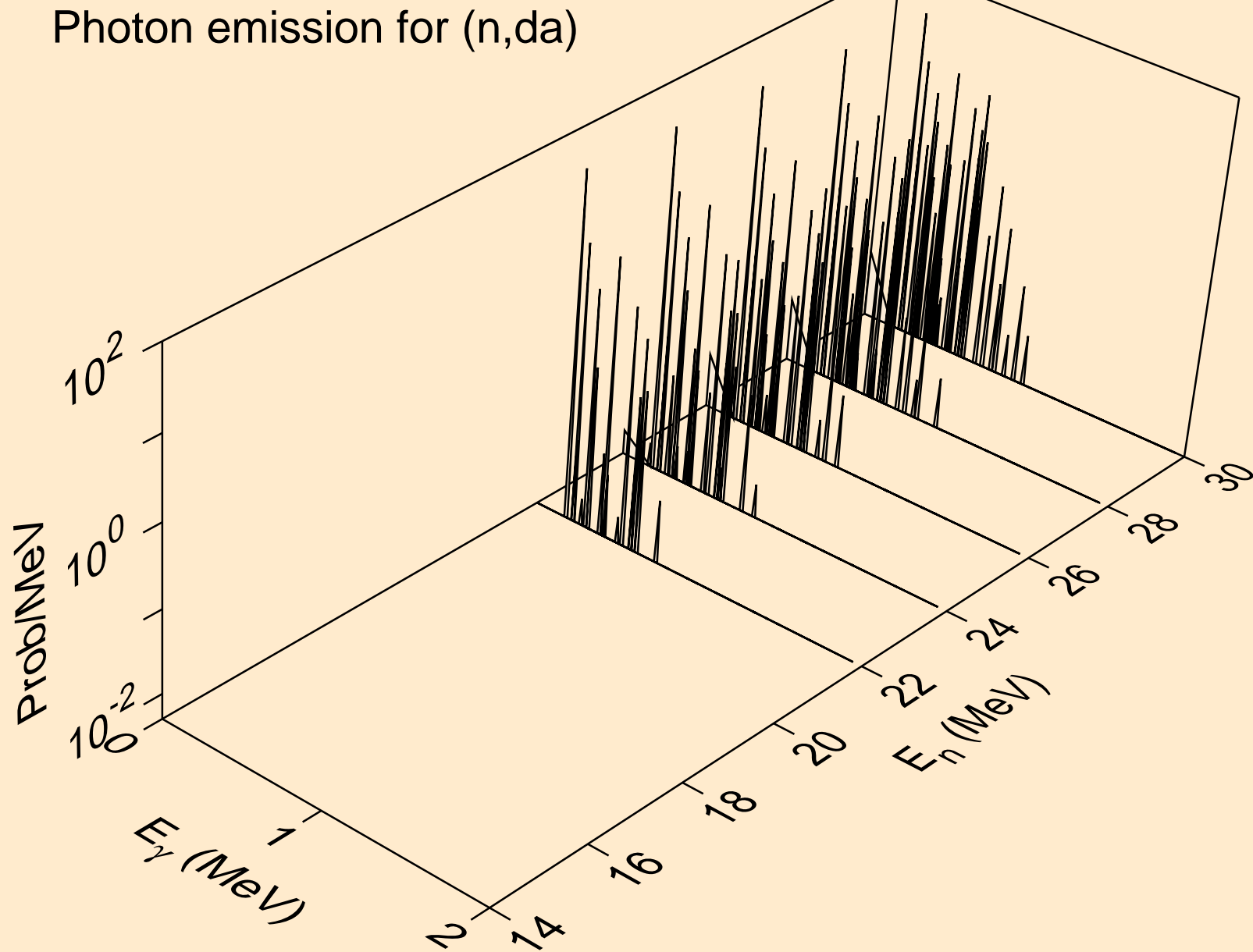
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Photon emission for (n,pd)



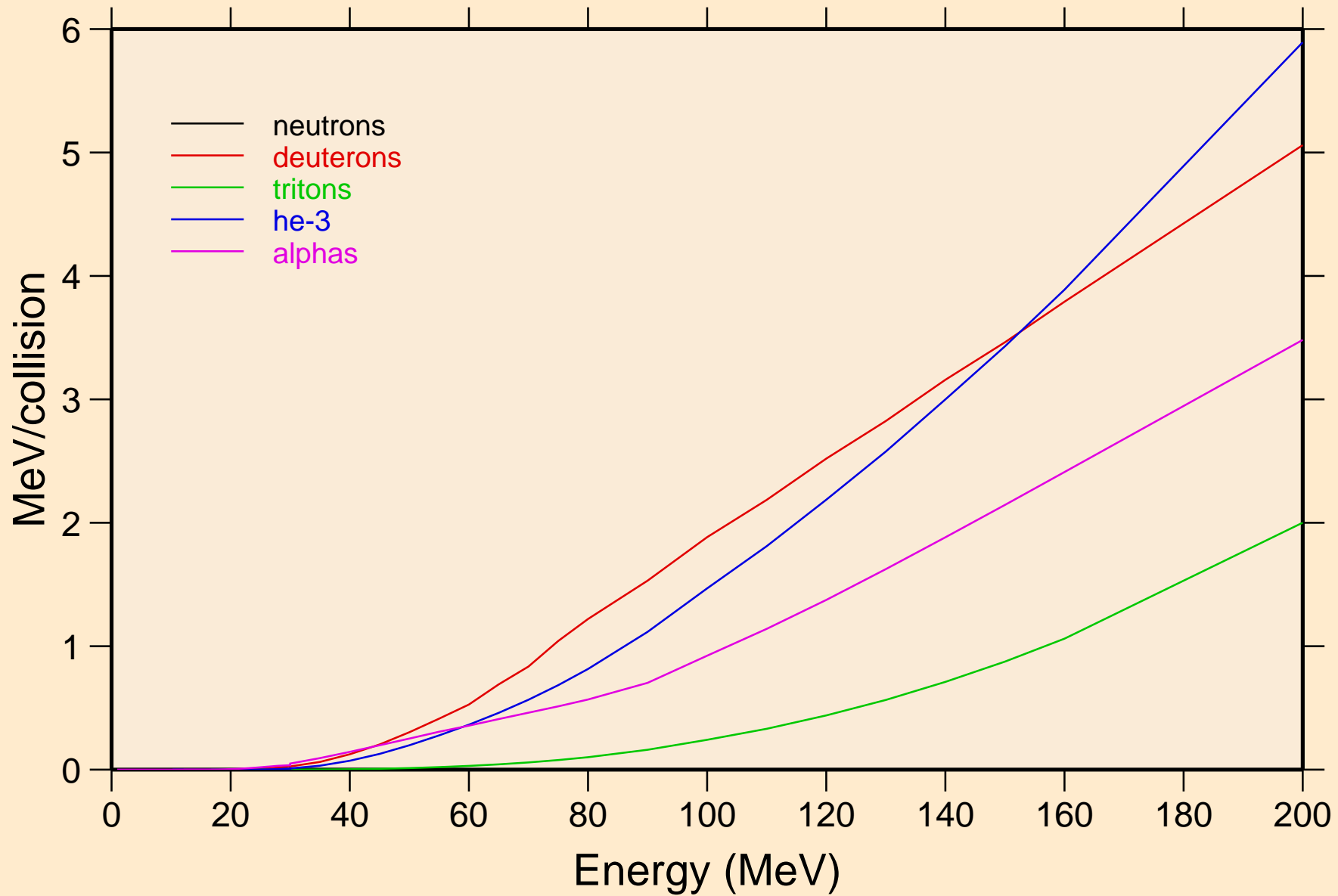
ZR082 PROTON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,pt)



ZR082 PROTON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,da)

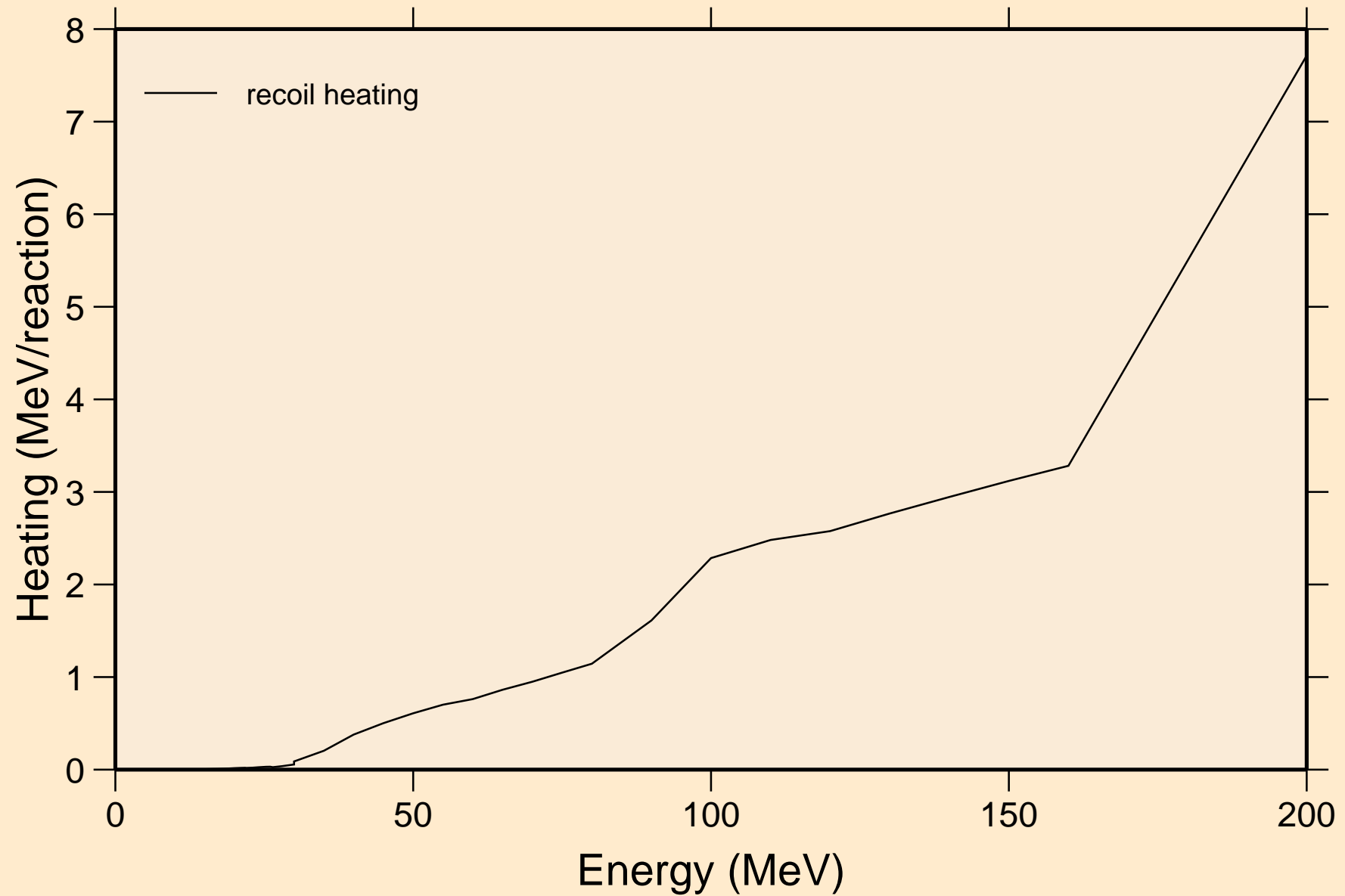


ZR082 PROTON ACER TENDL-2024 LIBRARY; T=0.K  
Particle heating contributions

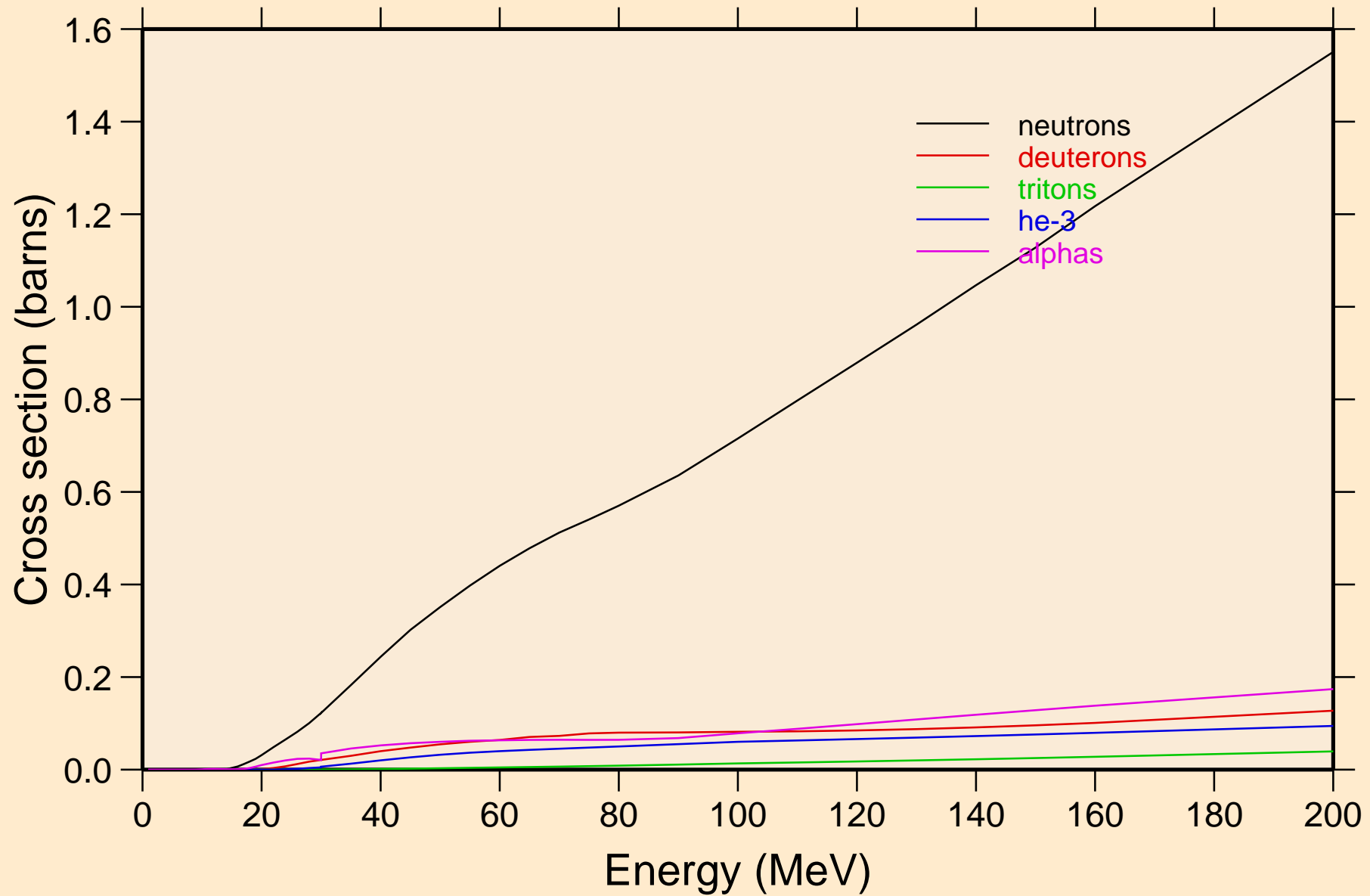


# ZR082 PROTON ACER TENDL-2024 LIBRARY; T=0.K

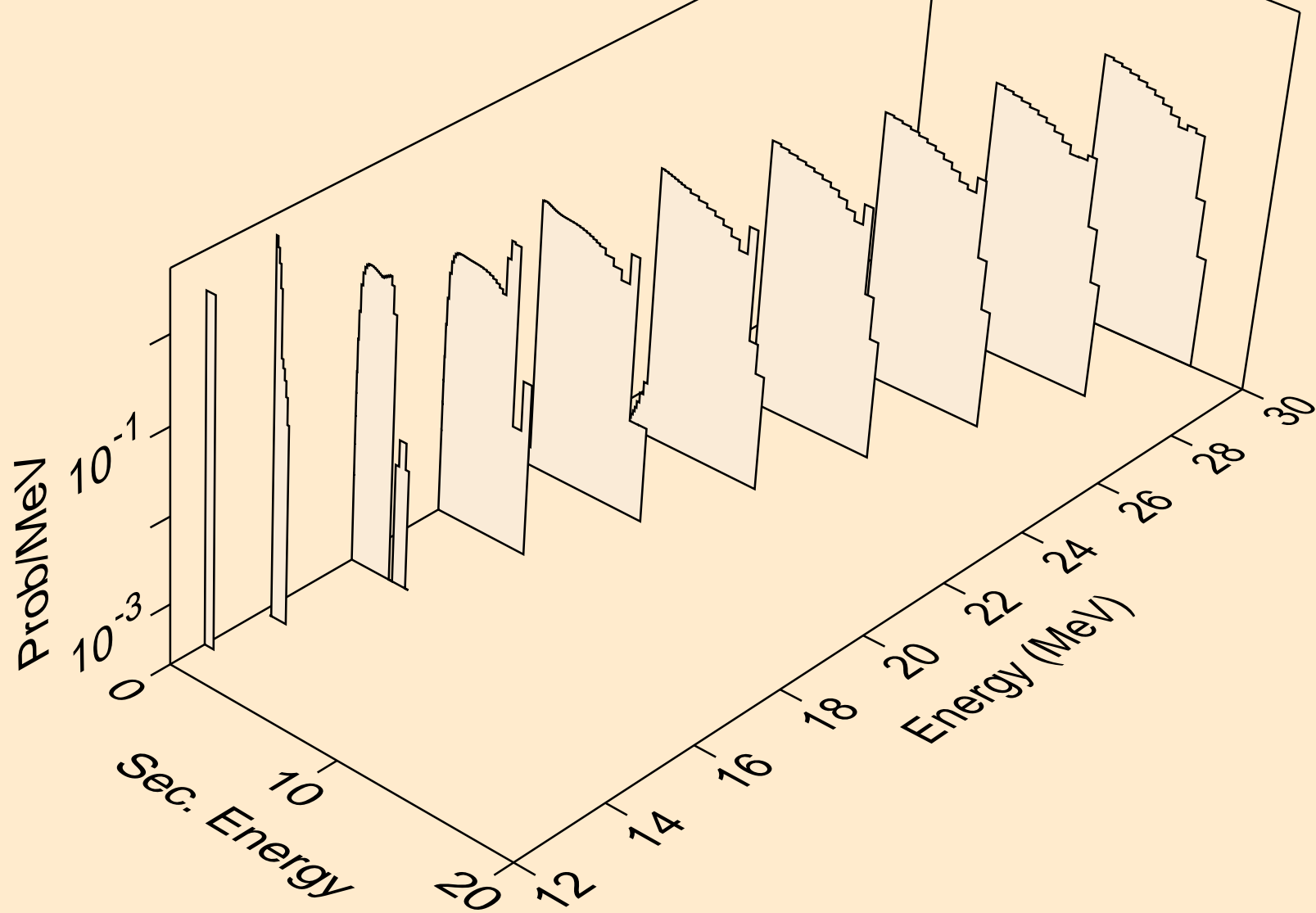
## Recoil Heating



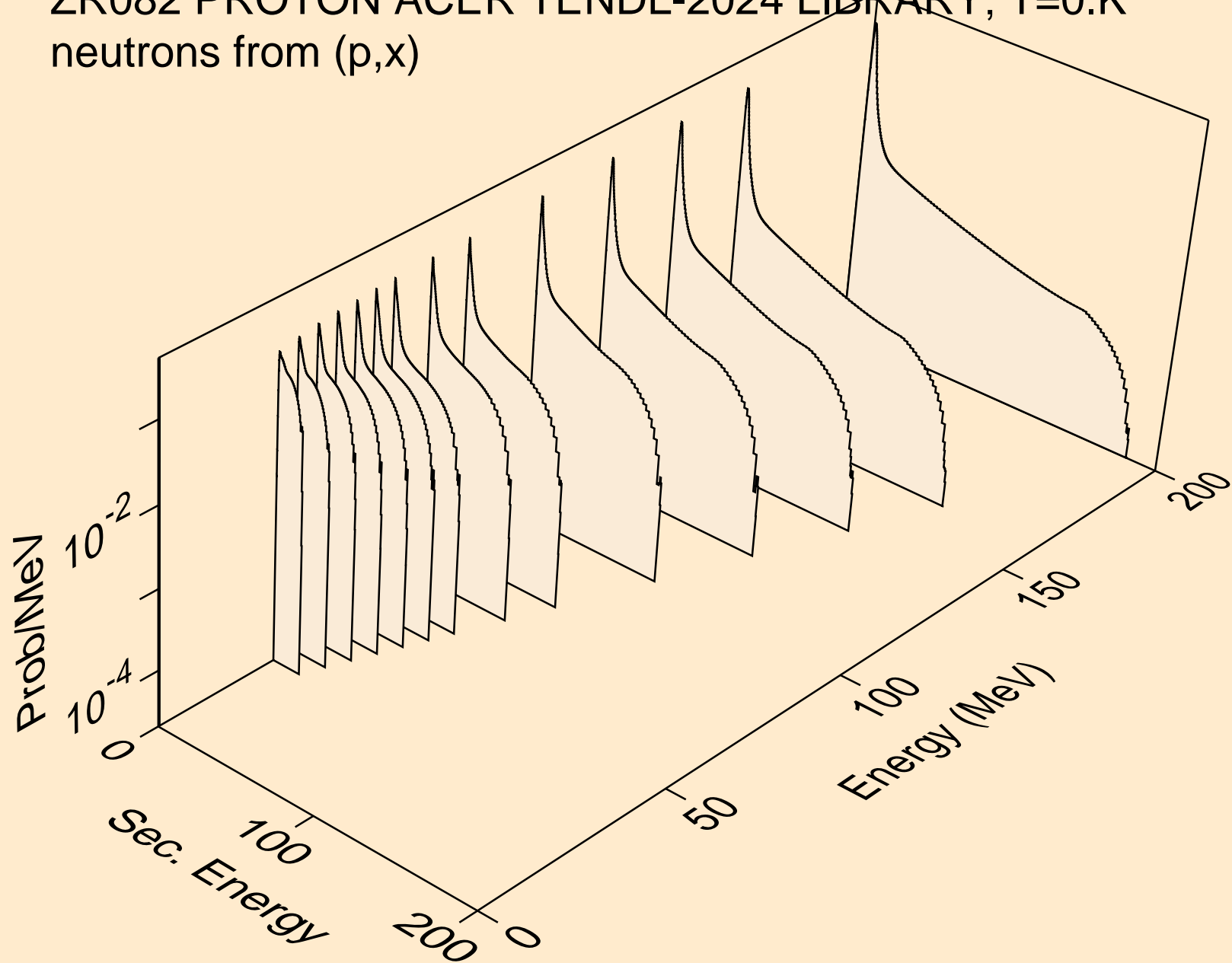
ZR082 PROTON ACER TENDL-2024 LIBRARY; T=0.K  
Particle production cross sections



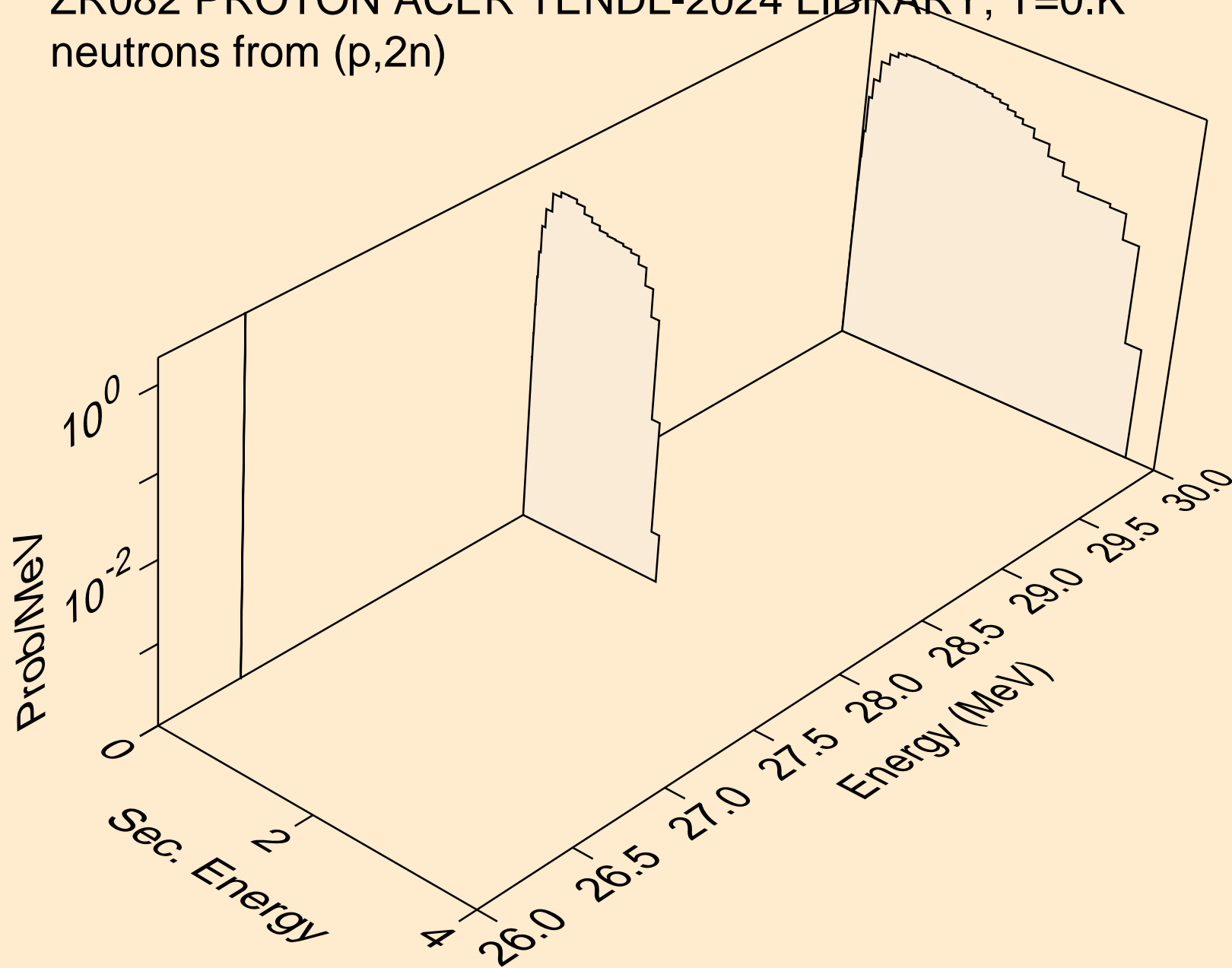
ZR082 PROTON ACER TENDL-2024 LIBRARY; T=0.K  
neutrons from (p,n)



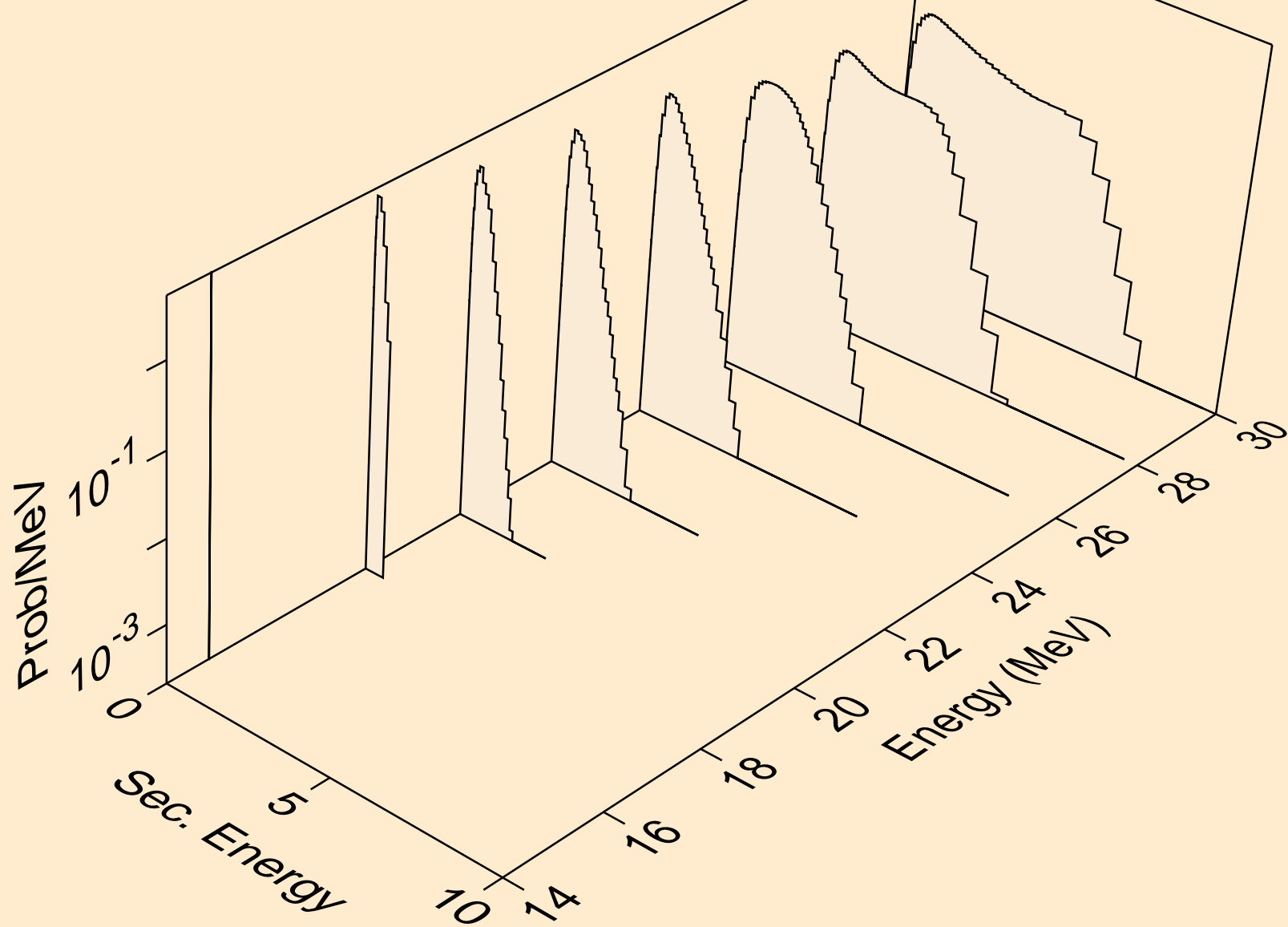
ZR082 PROTON ACER TENDL-2024 LIBRARY; T=0.K  
neutrons from (p,x)



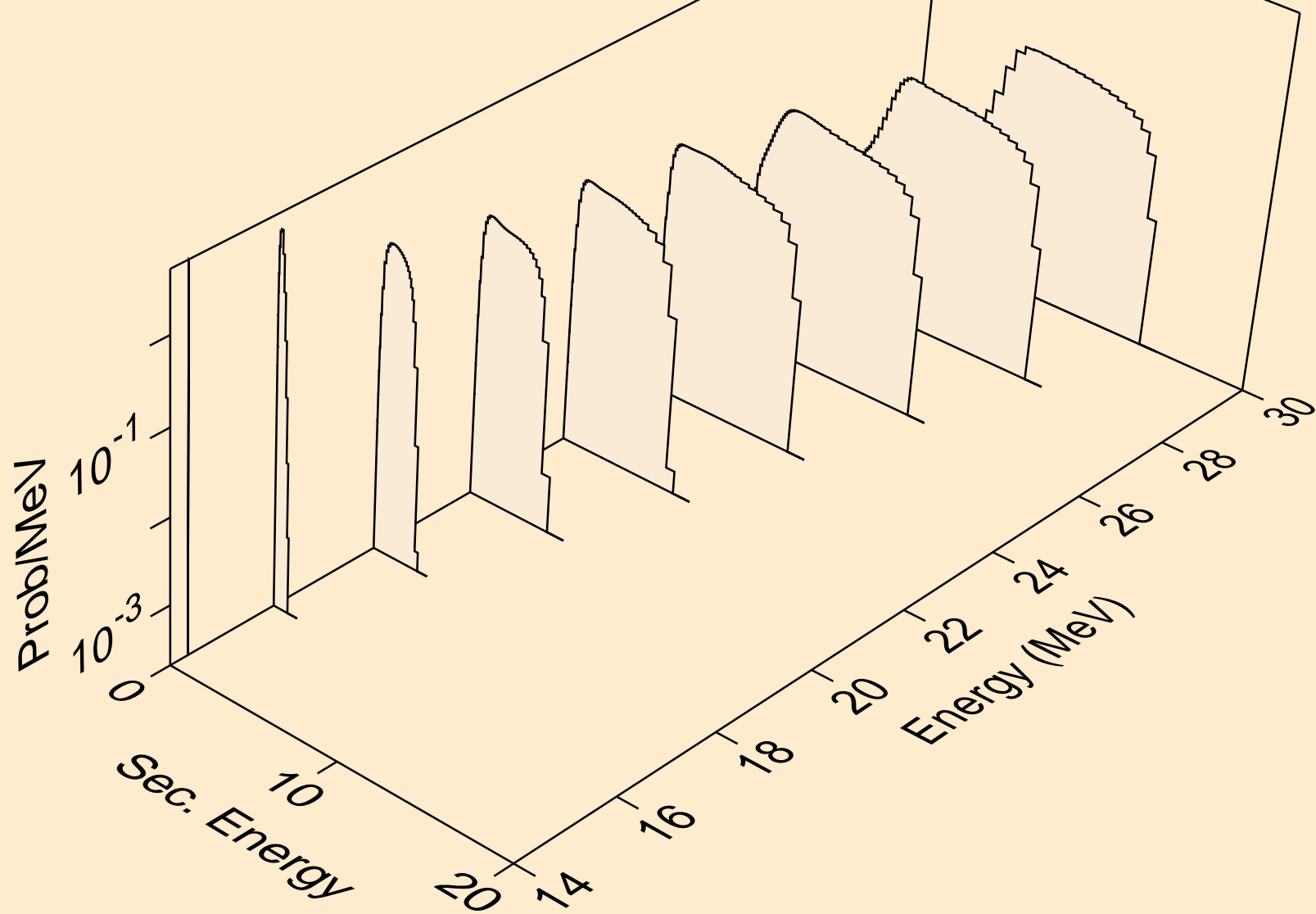
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neutrons from (p,2n)



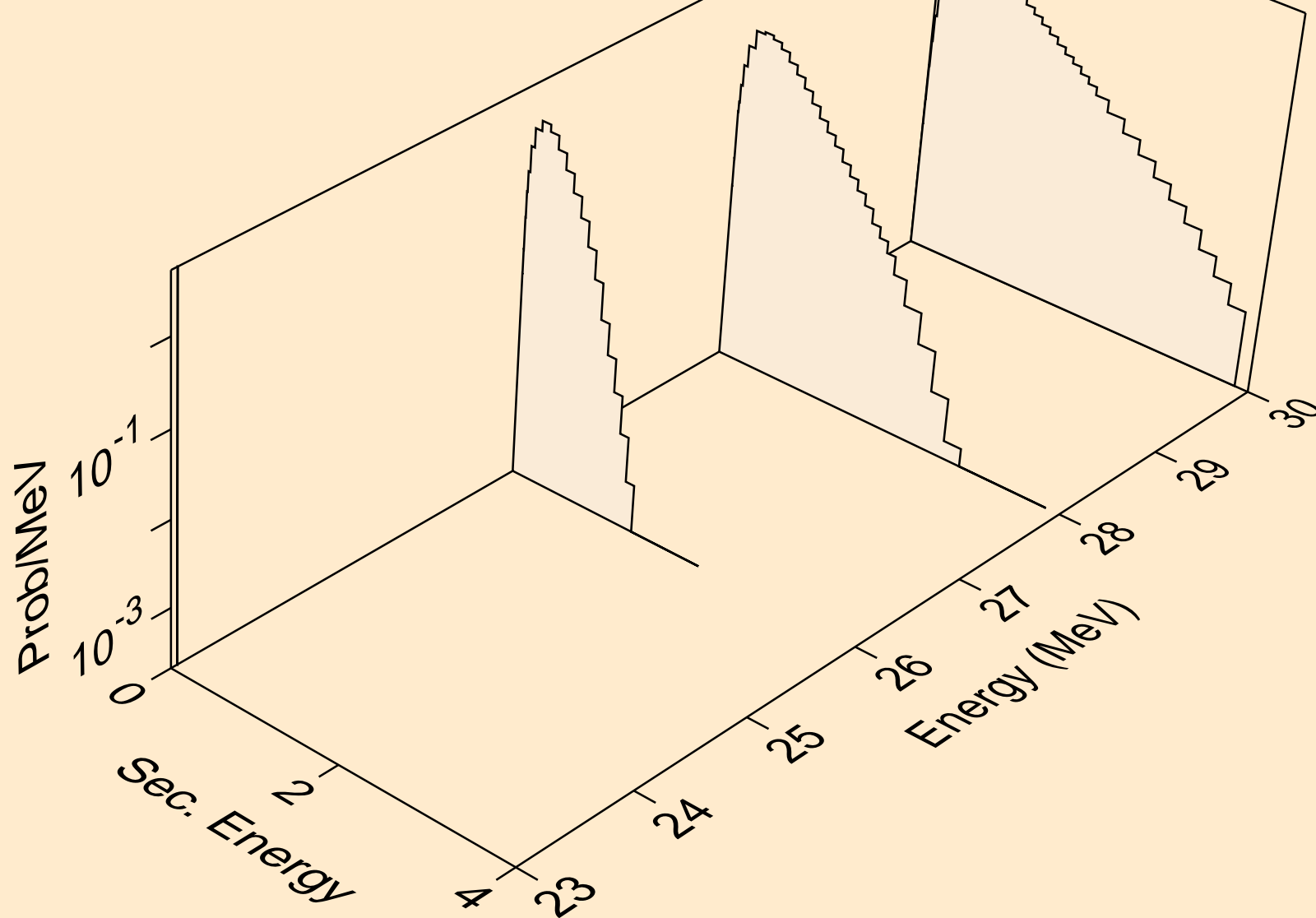
ZR082 PROTON ACER TENDL-2024 LIBRARY; T=0.K  
neutrons from (p,n\*)a



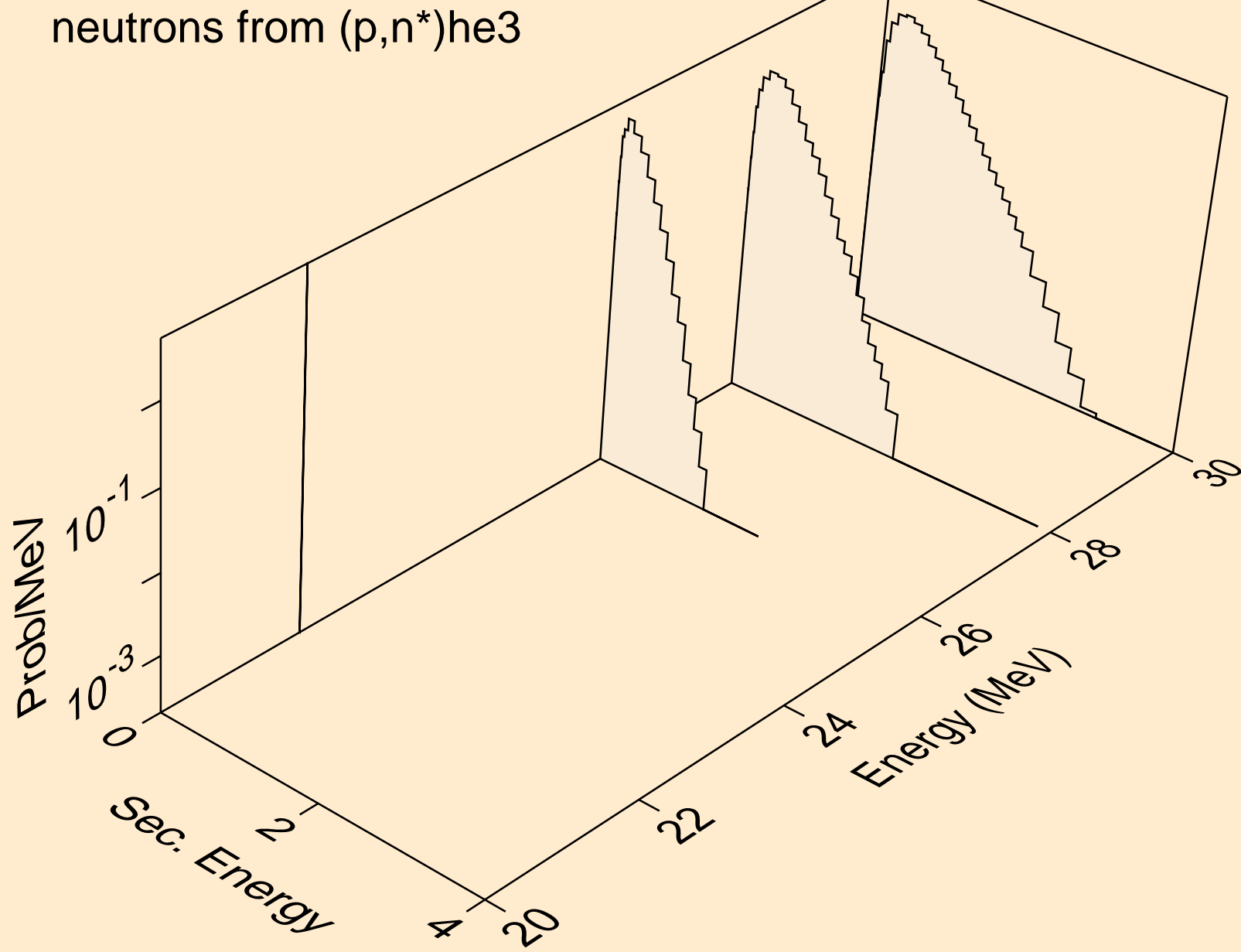
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neutrons from (p,n\*)p



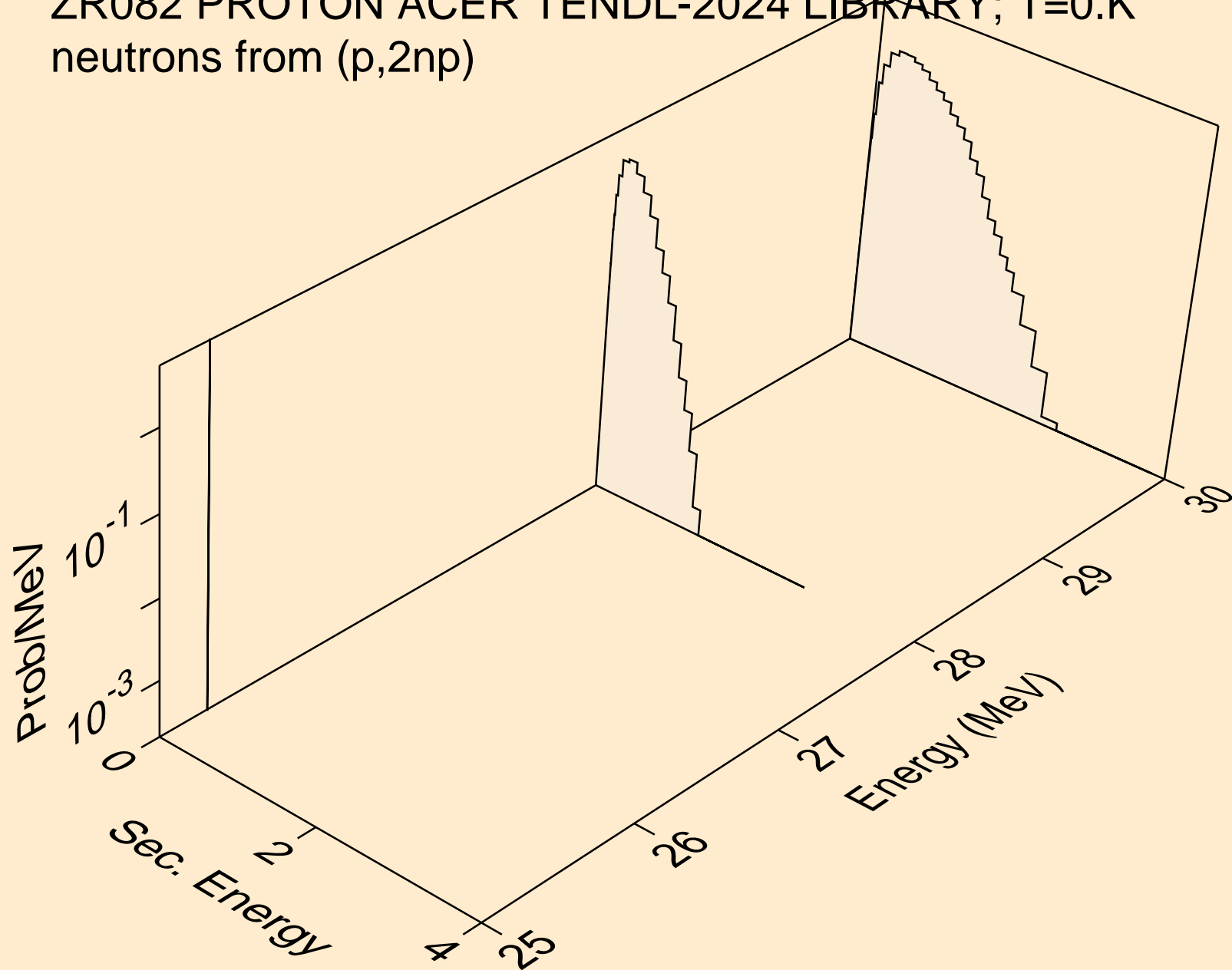
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neutrons from (p,n\*)d



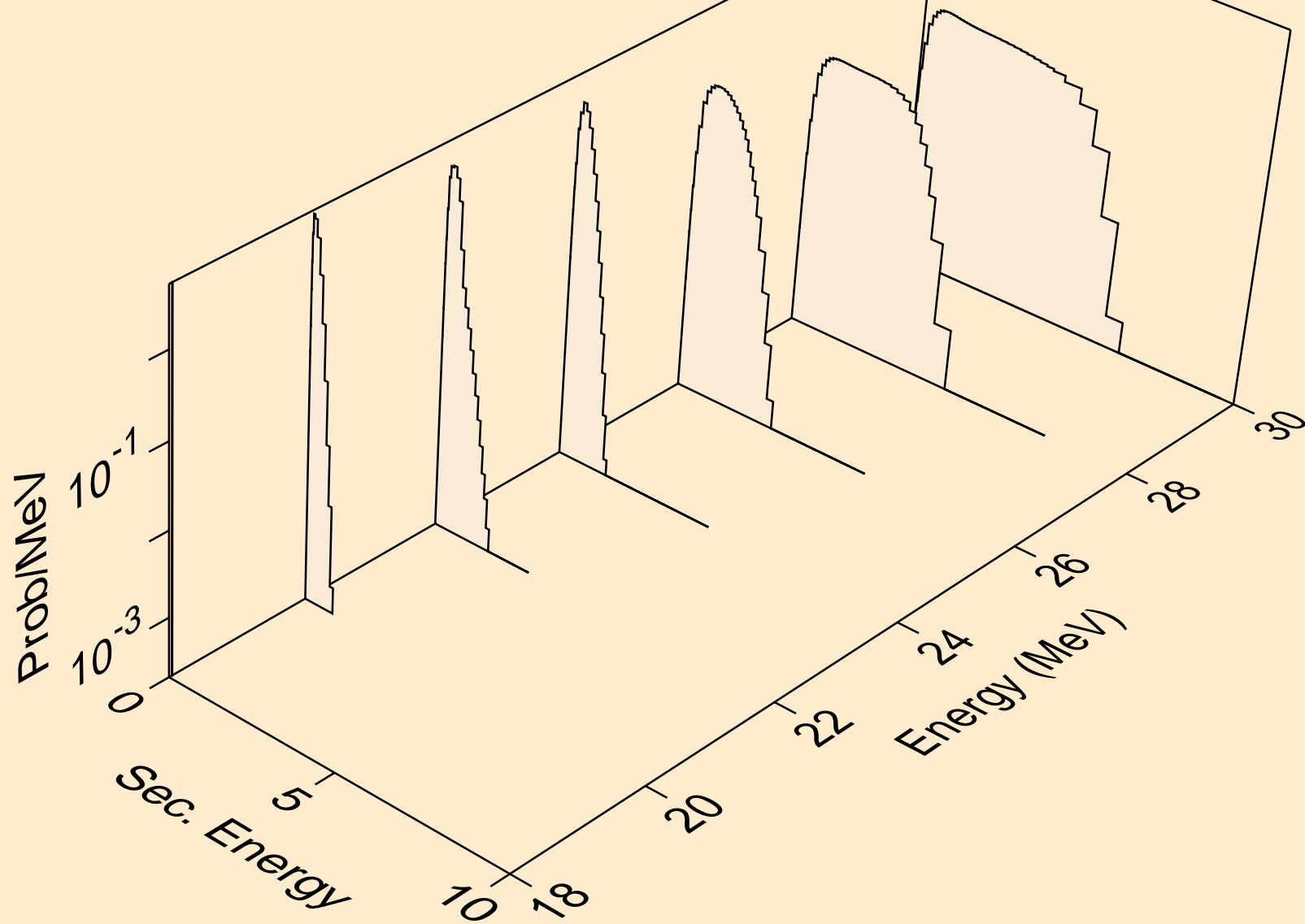
ZR082 PROTON ACER TENDL-2024 LIBRARY; T=0.K  
neutrons from (p,n\*)he3



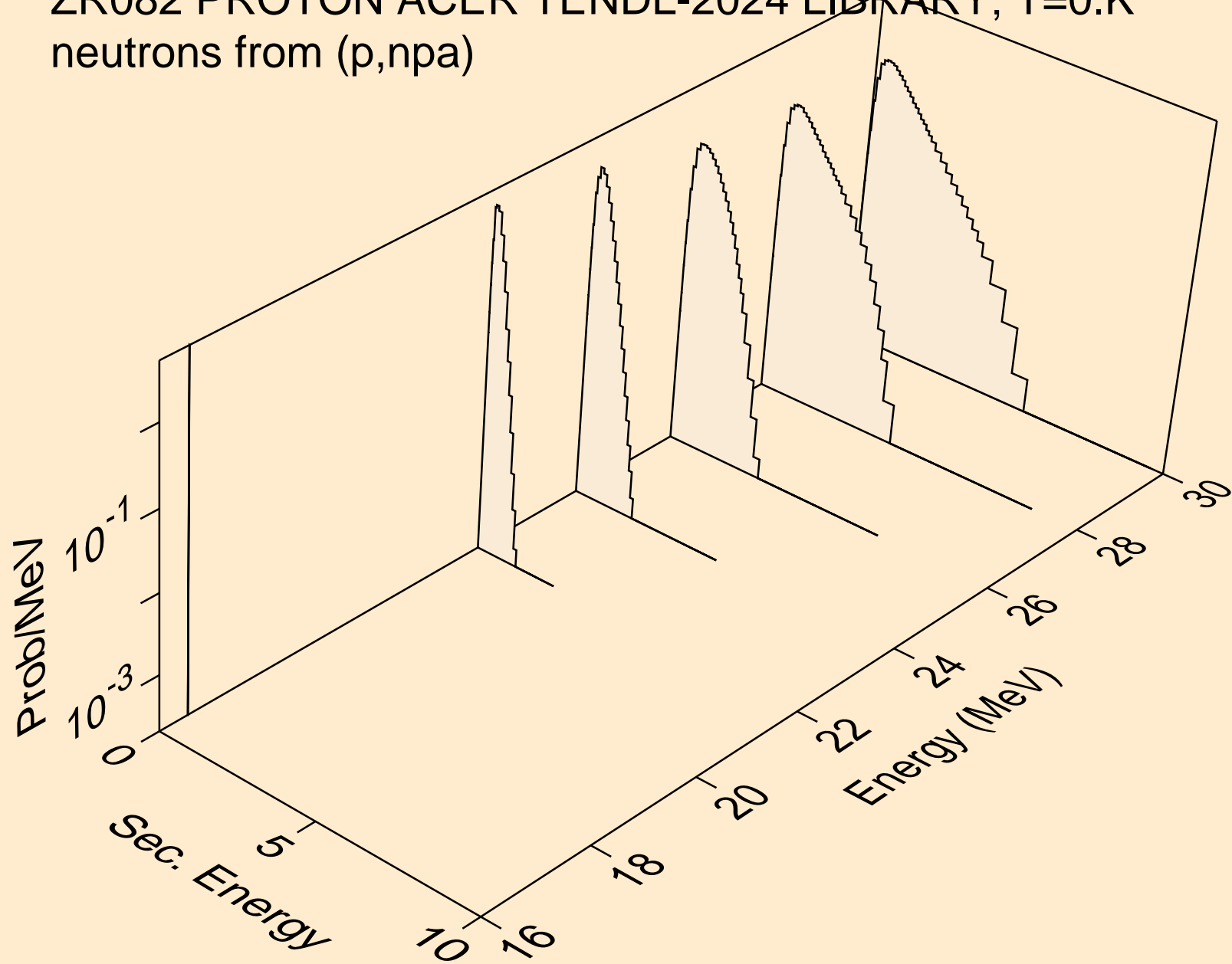
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neutrons from (p,2np)



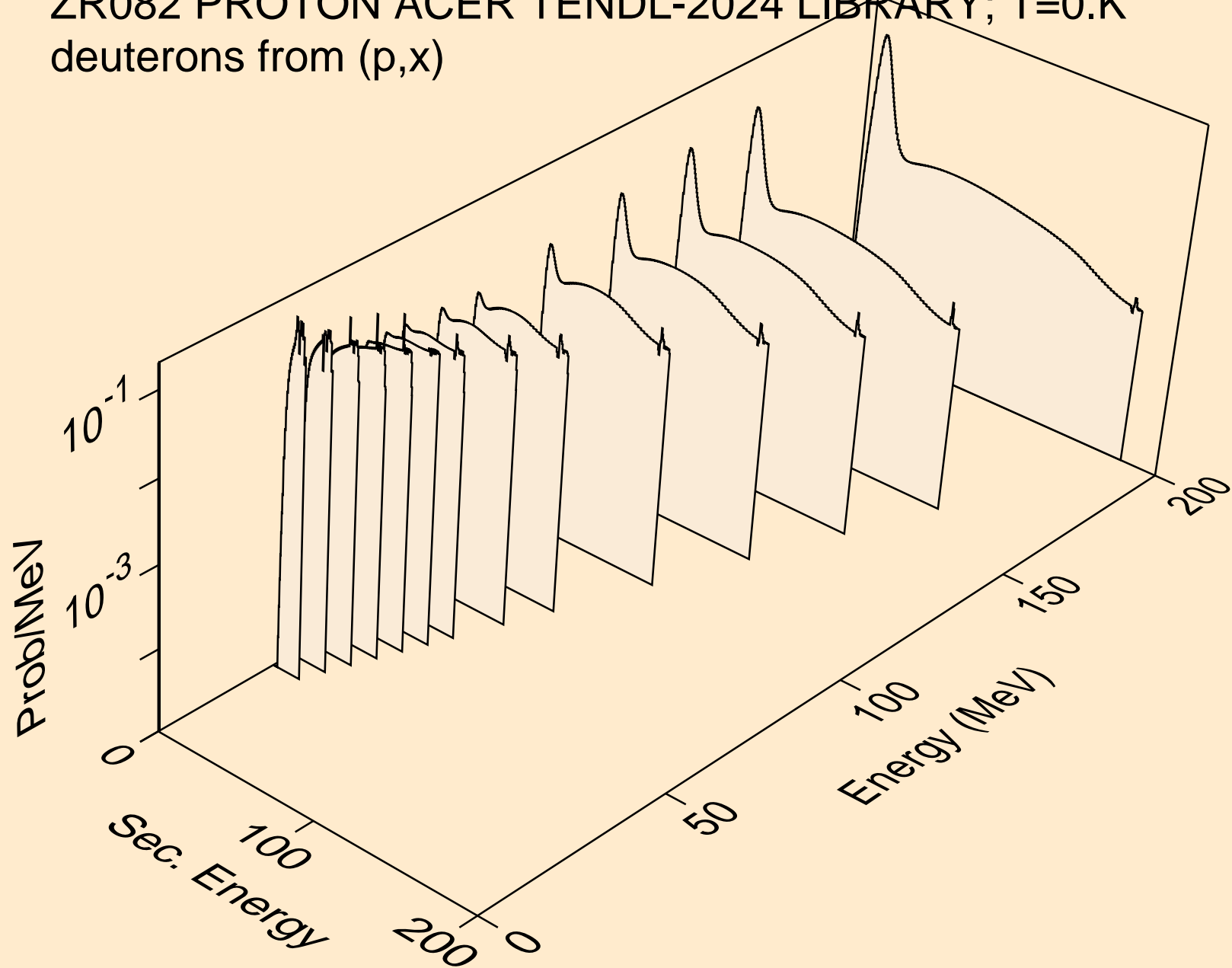
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neutrons from (p,n2p)



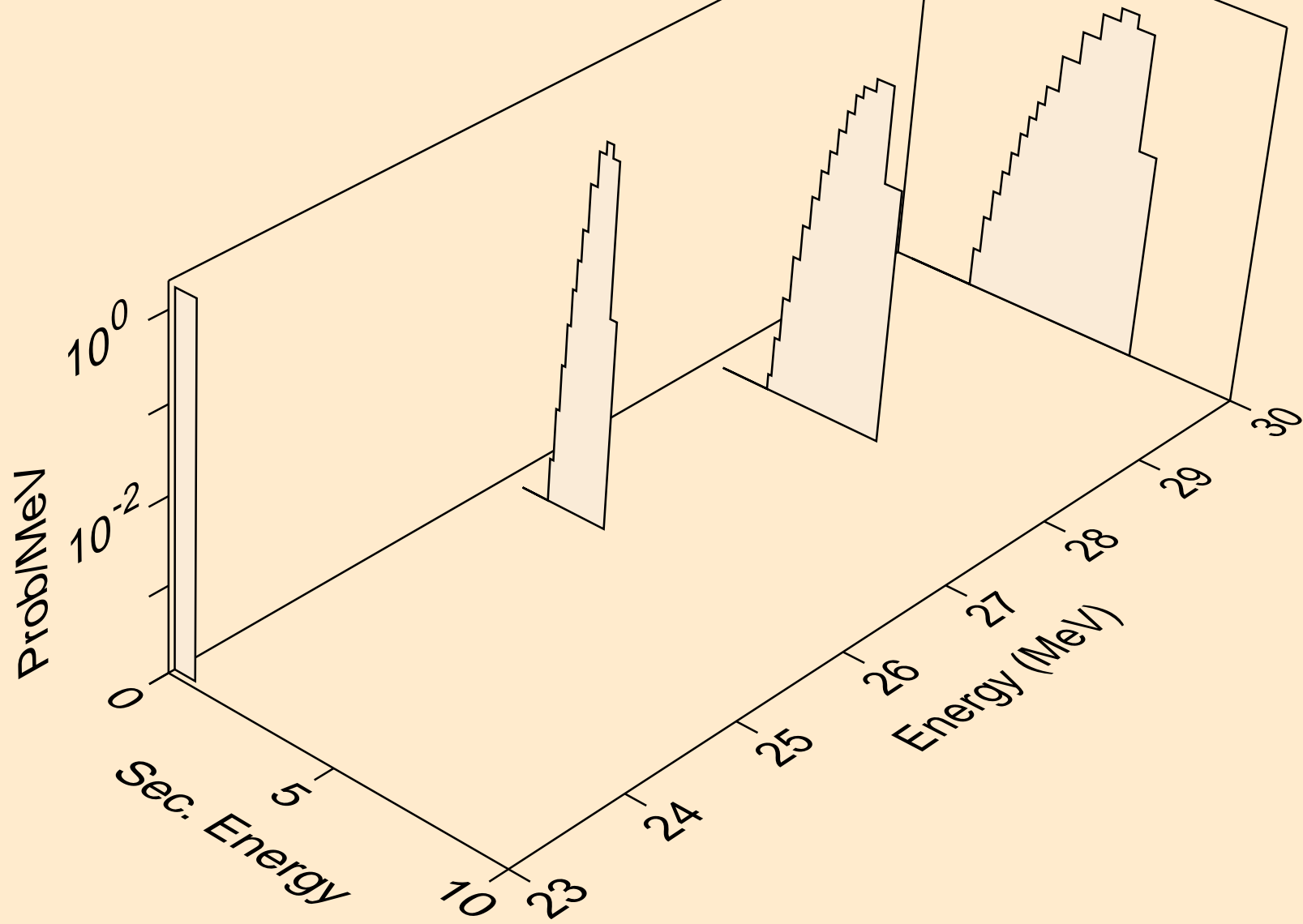
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neutrons from (p,npa)



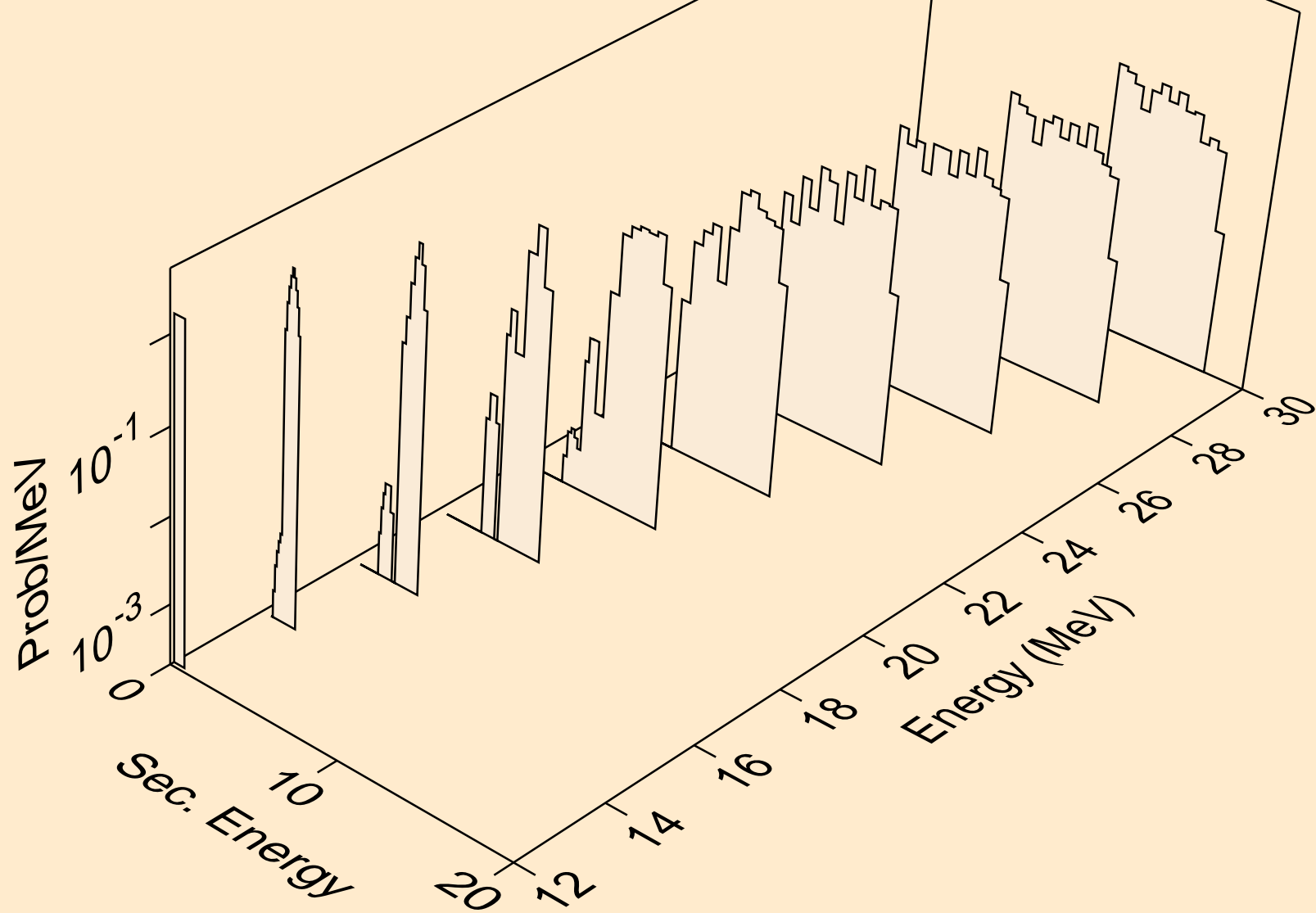
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deuterons from (p,x)



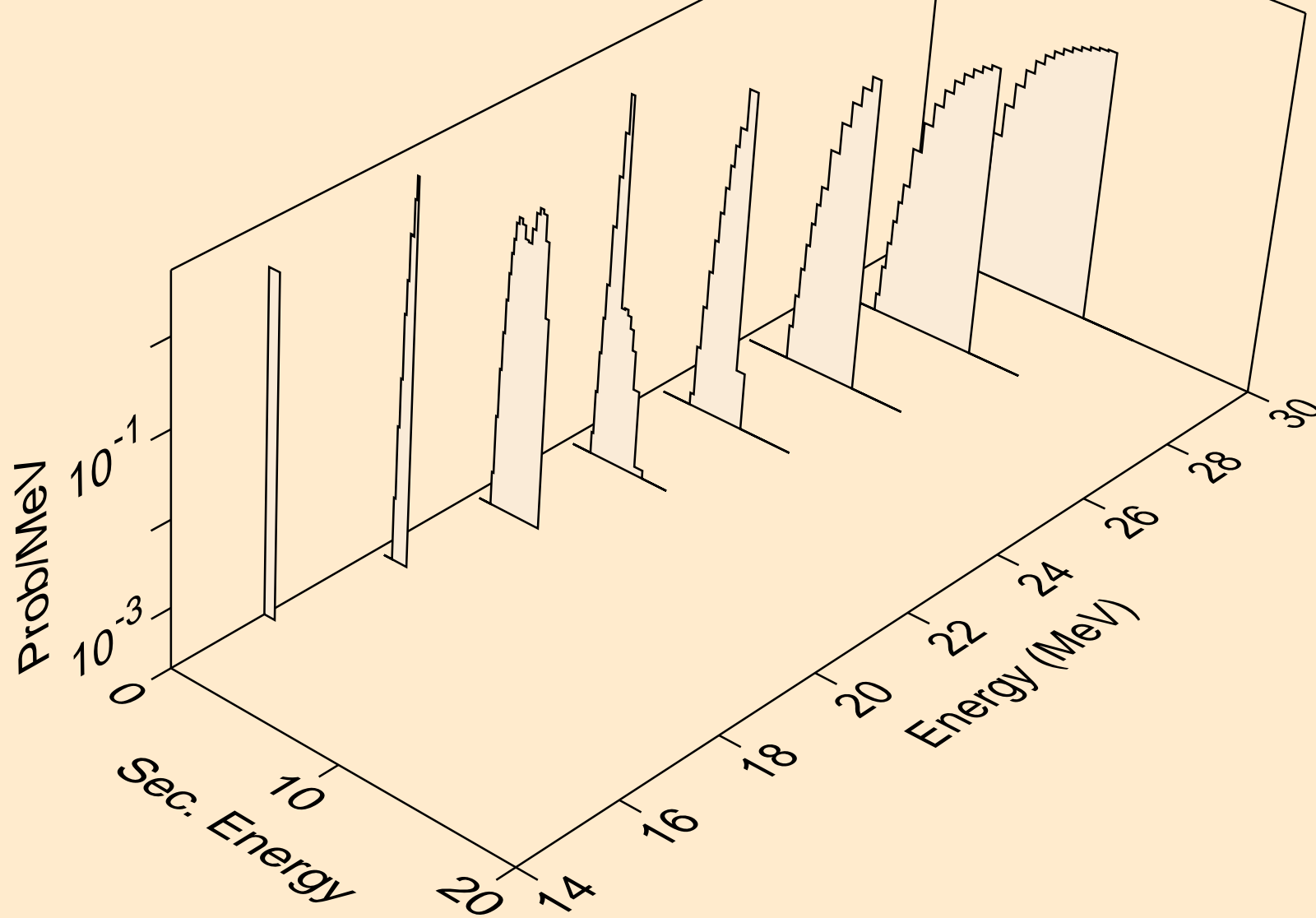
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deuterons from (p,n\*)d



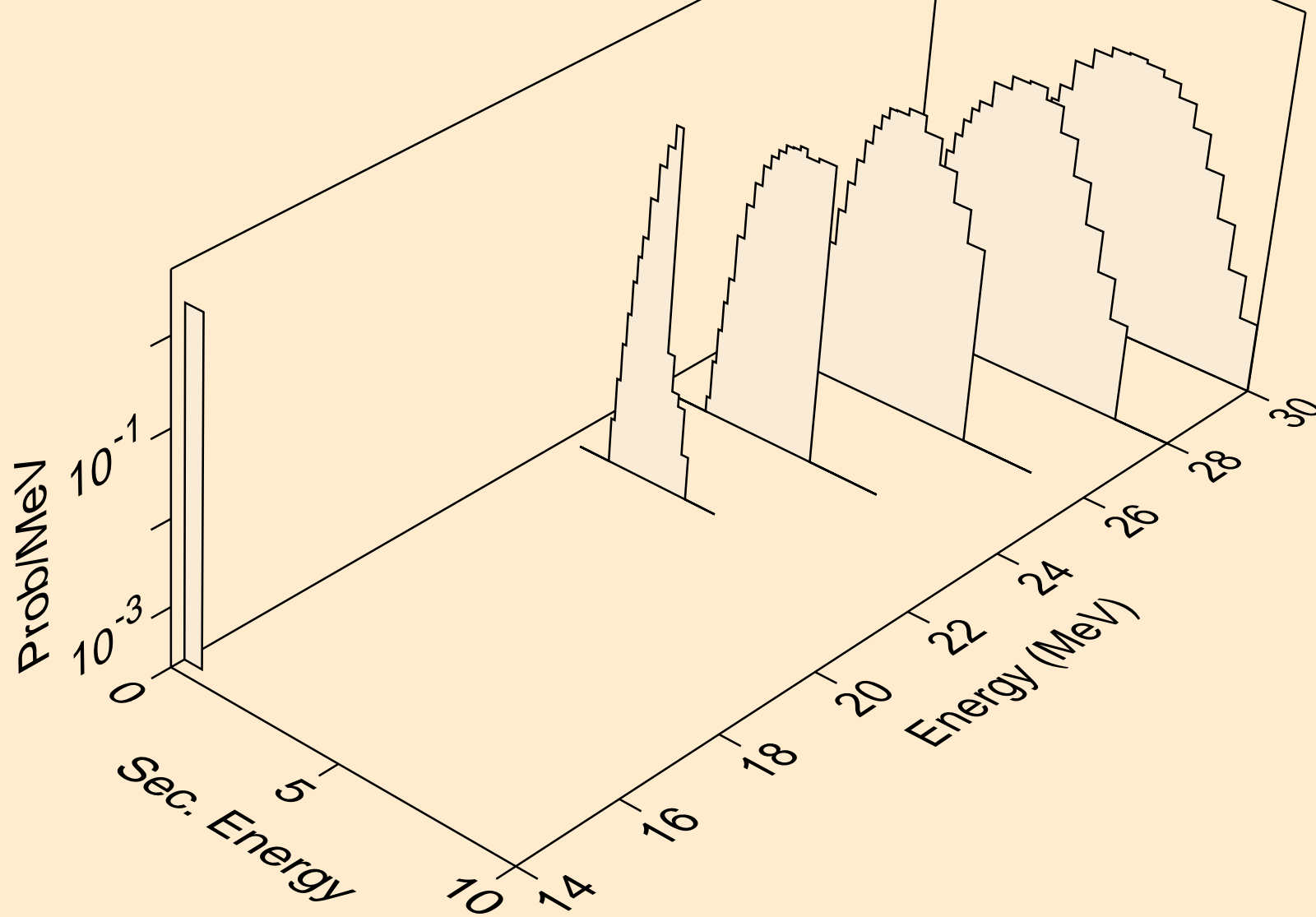
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deuterons from (p,d)



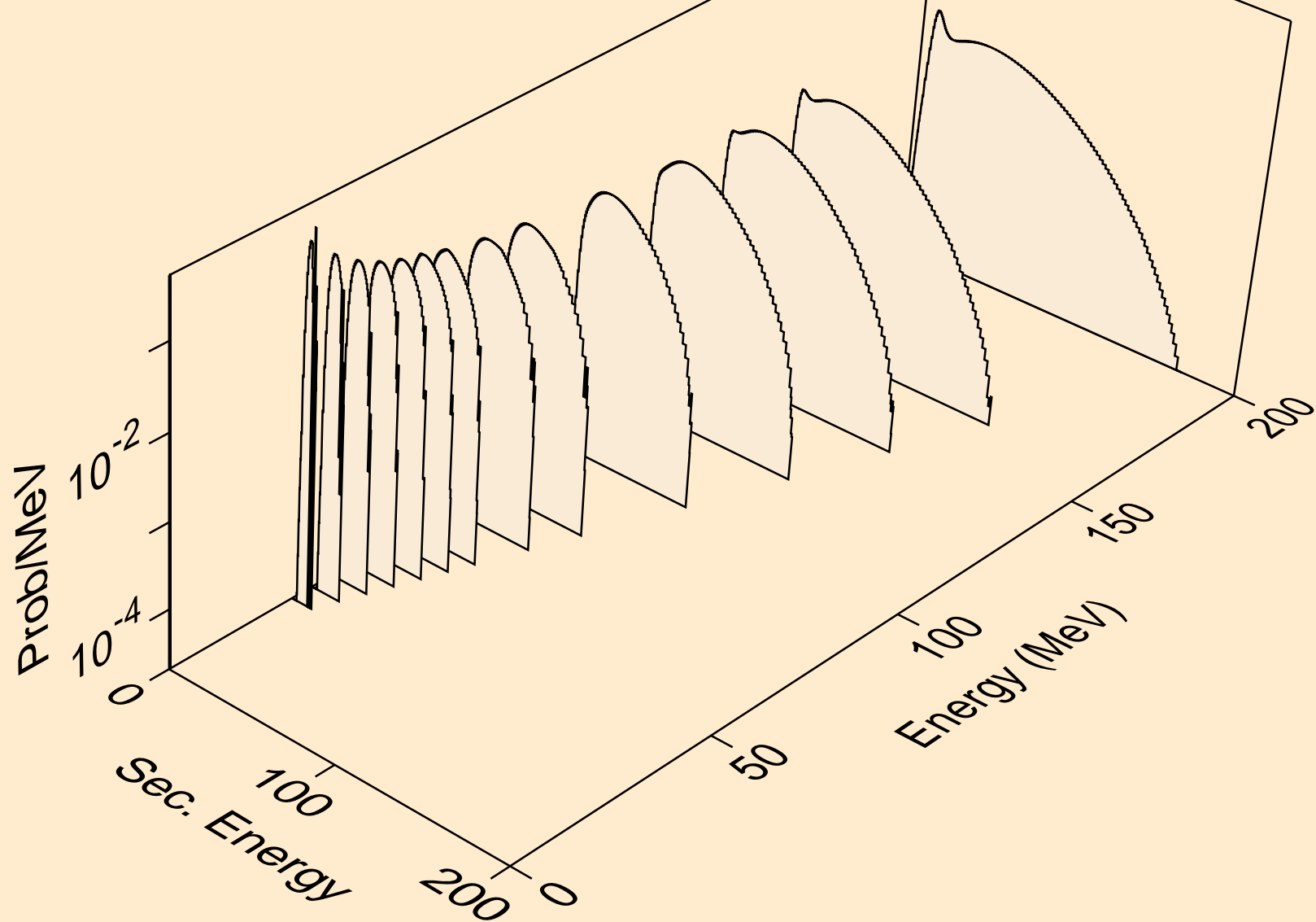
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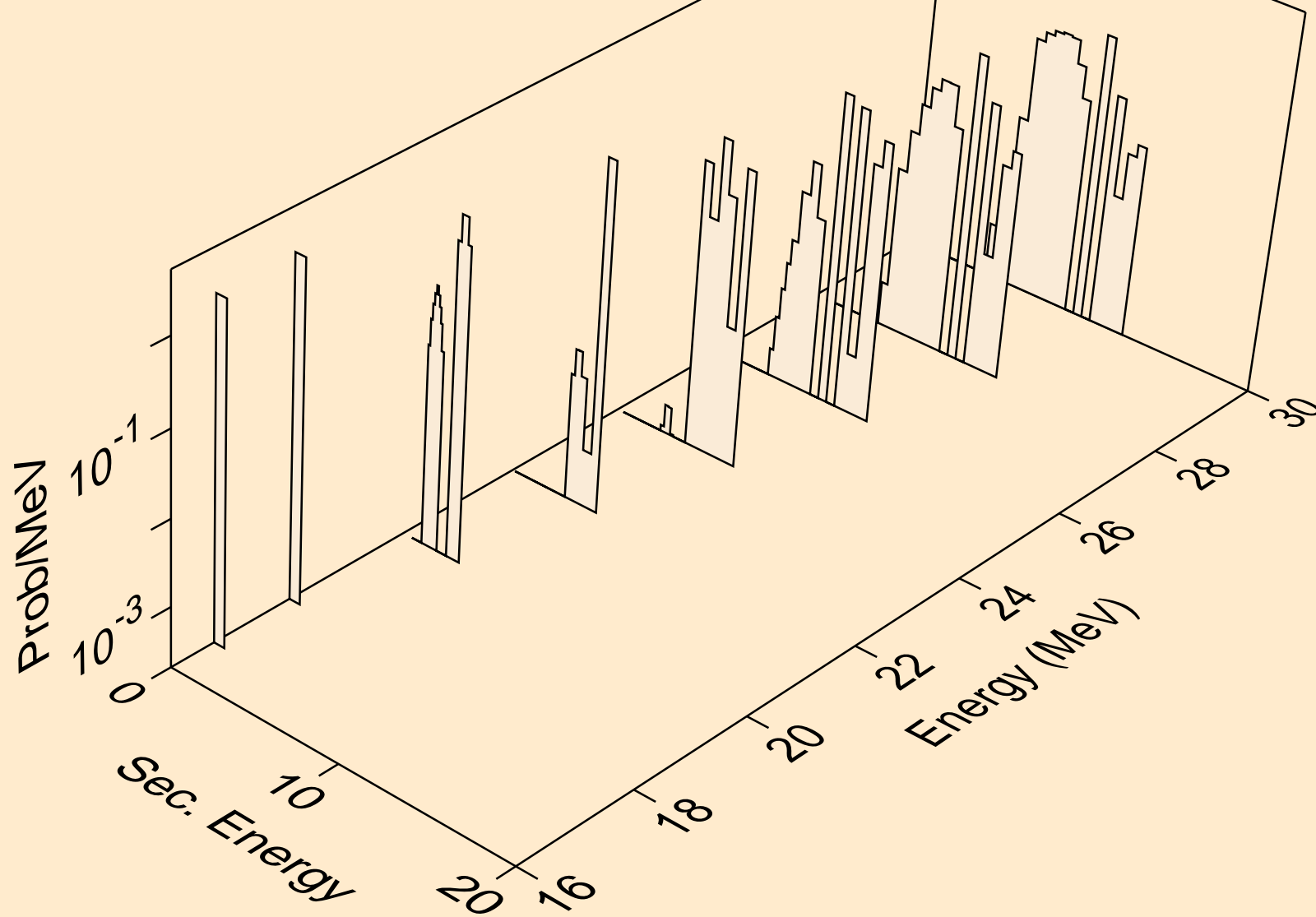
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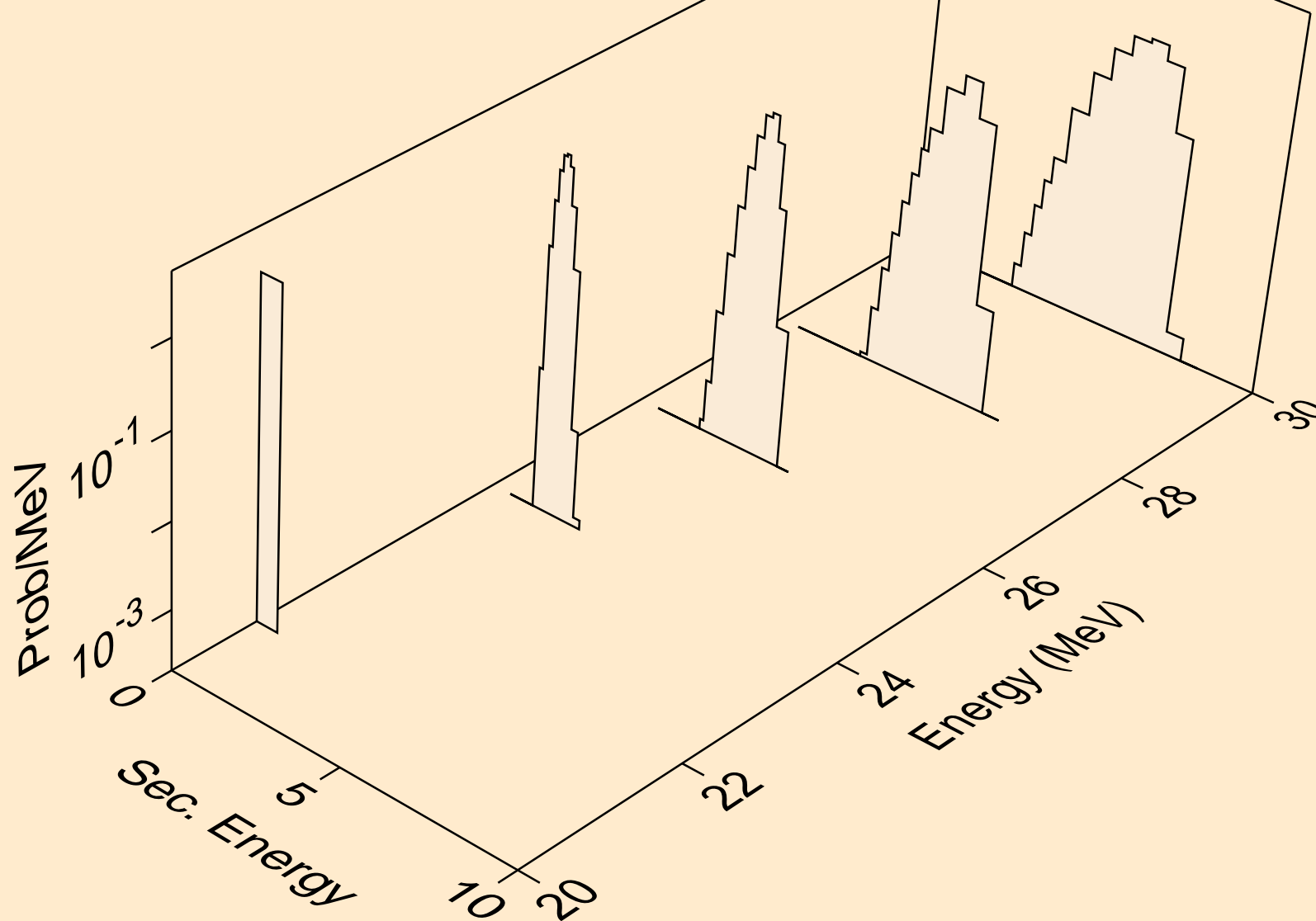
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tritons from (p,x)



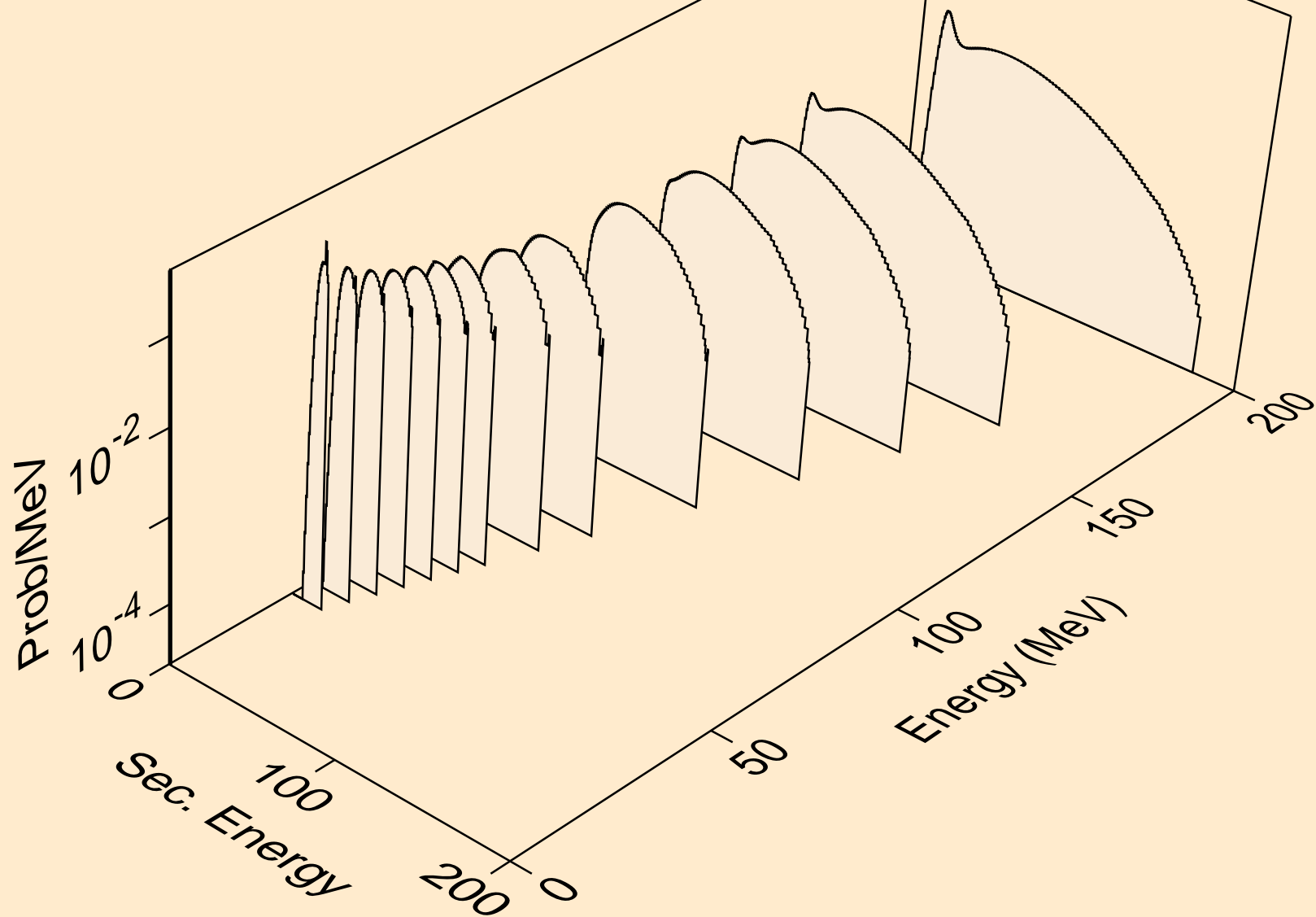
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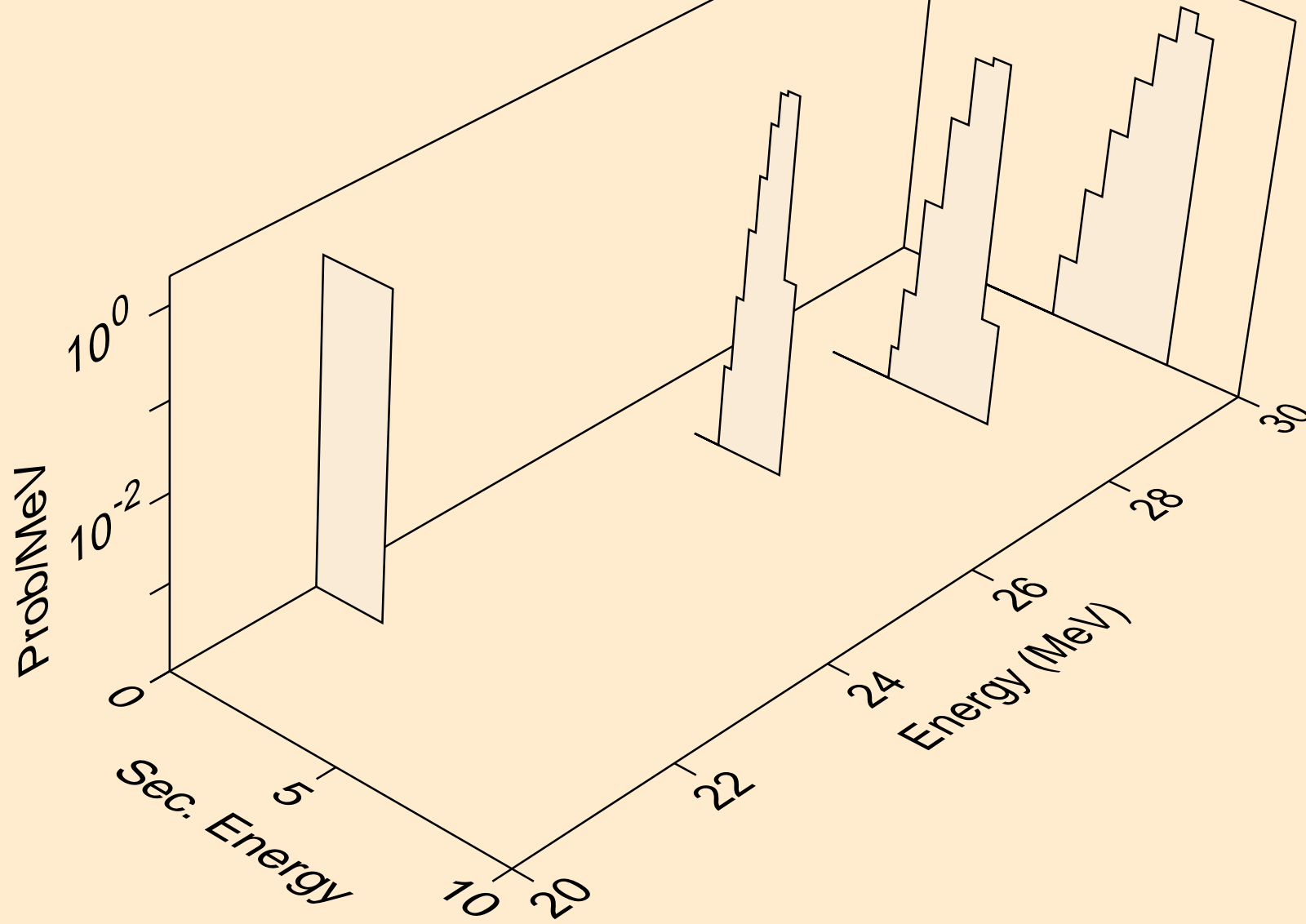
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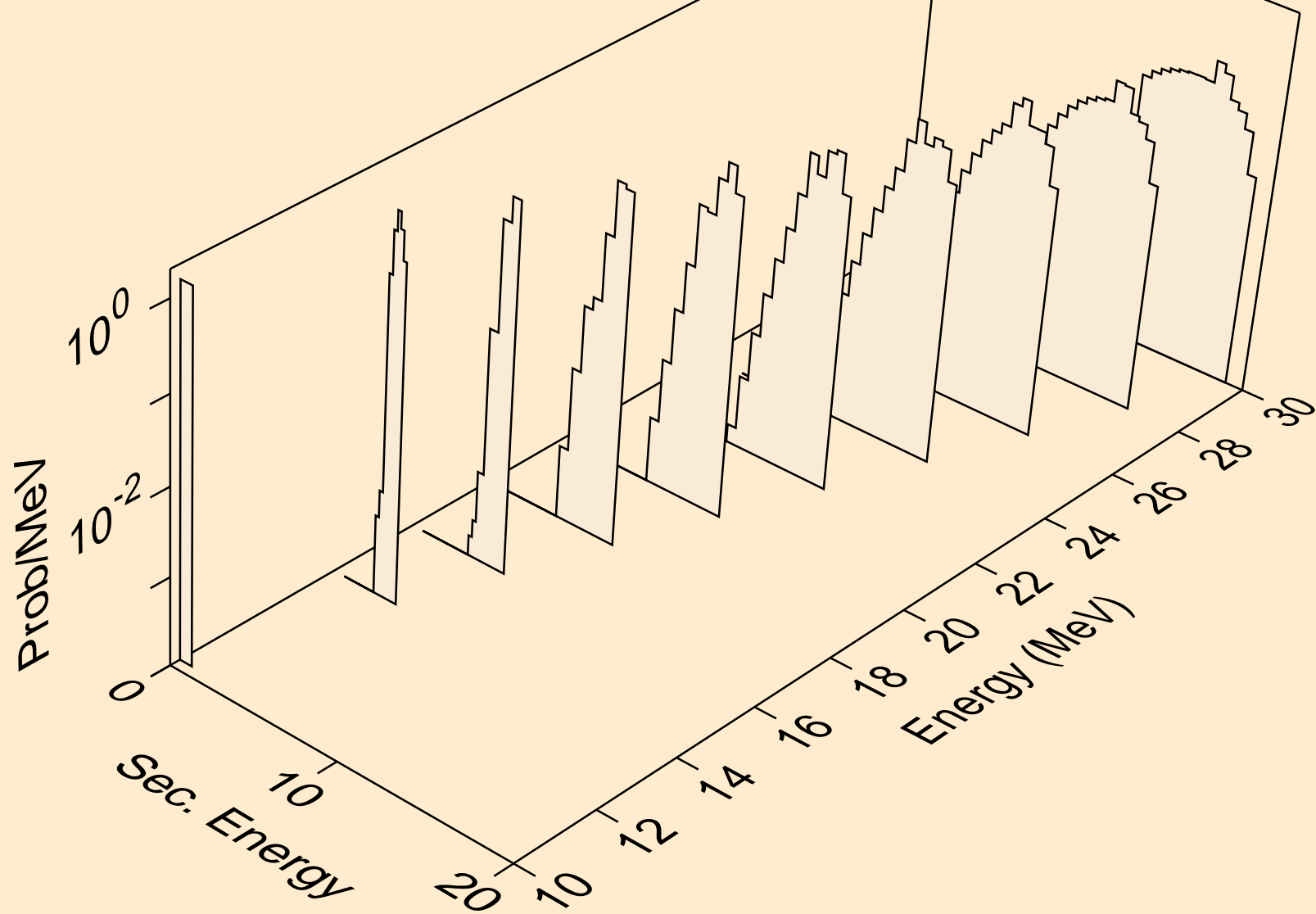
ZR082 PROTON ACER TENDL-2024 LIBRARY; T=0.K  
he3s from (p,x)



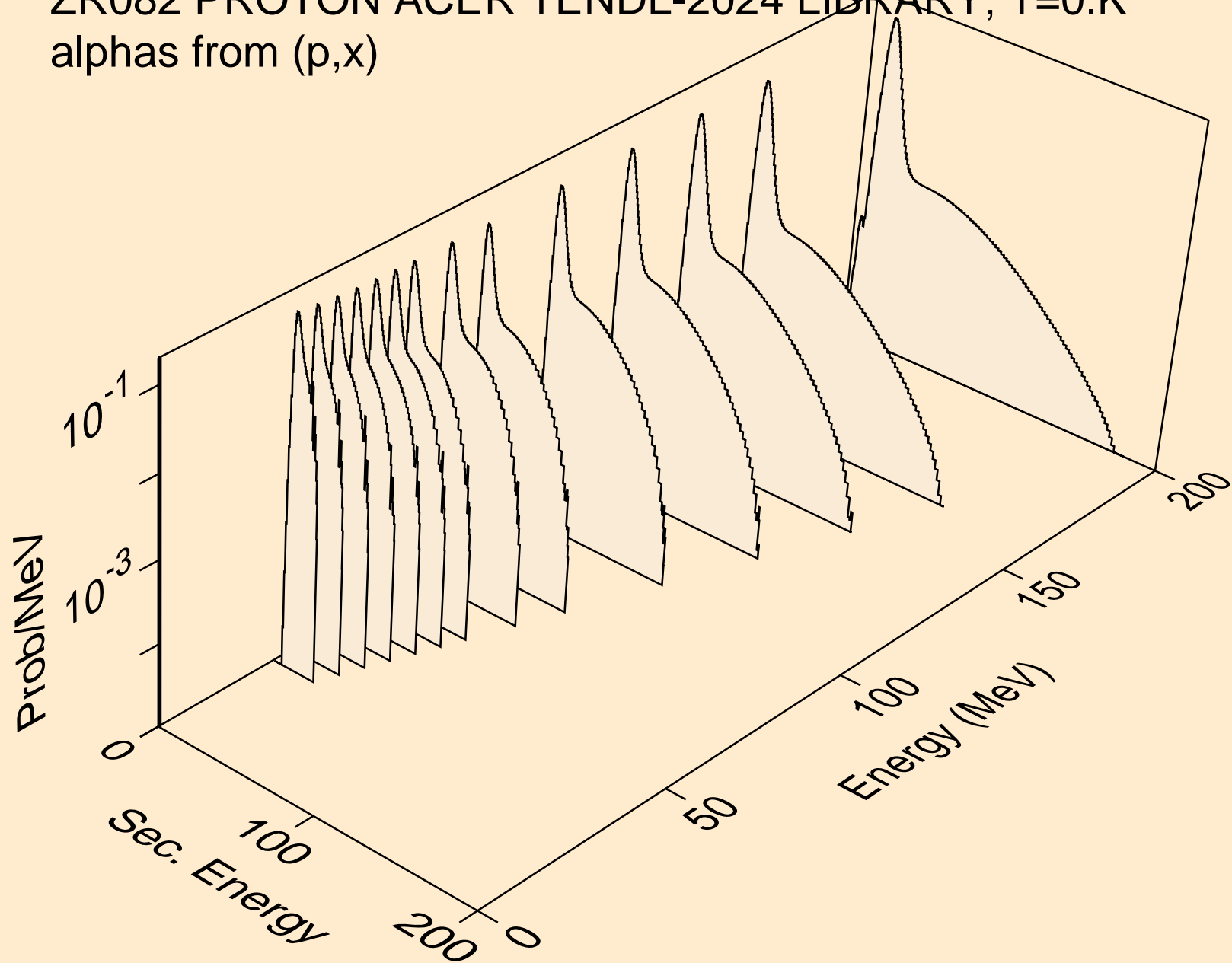
ZR082 PROTON ACER TENDL-2024 LIBRARY; T=0.K  
he3s from (p,n\*)he3



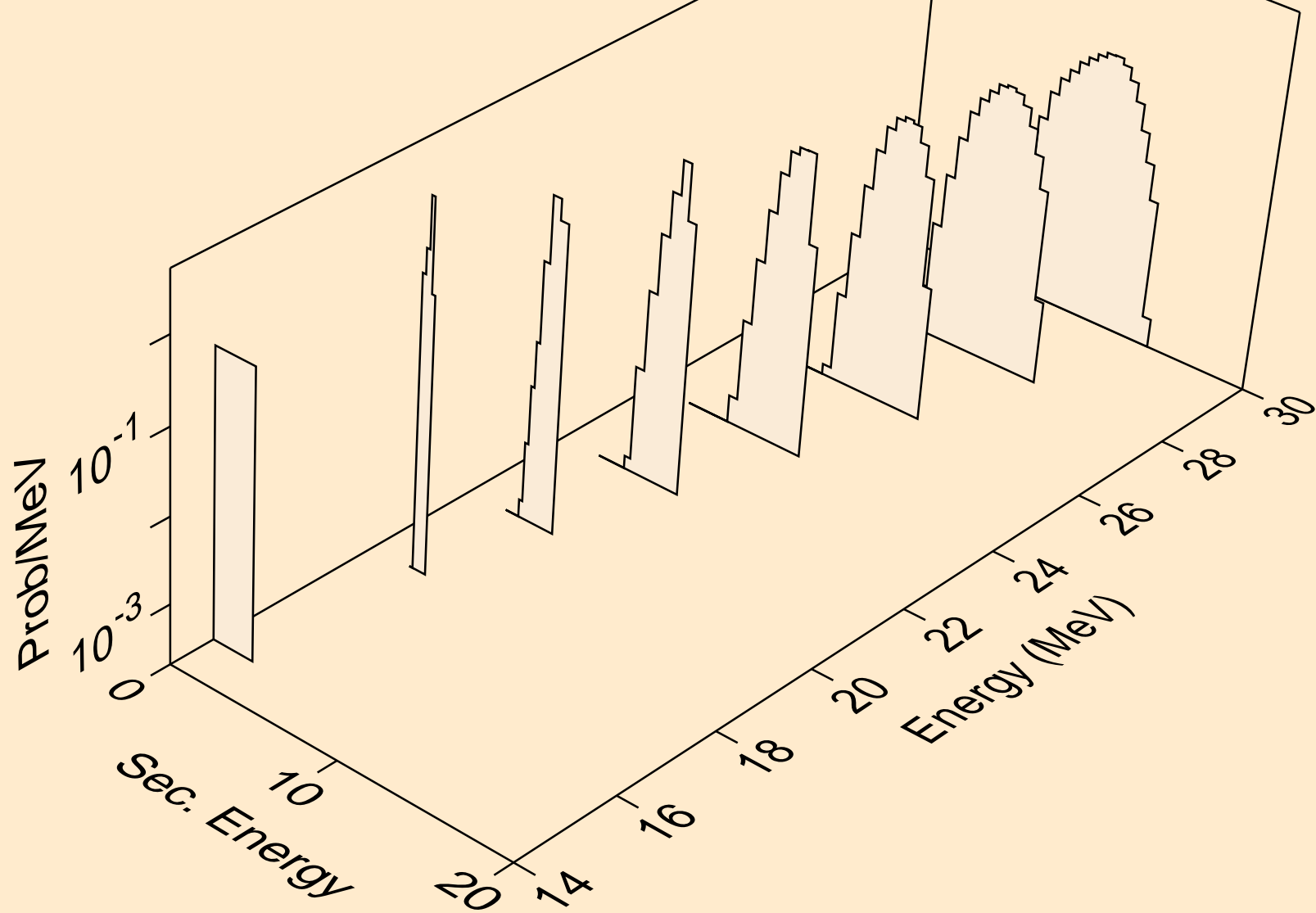
ZR082 PROTON ACER TENDL-2024 LIBRARY; T=0.K  
he3s from (p,he3)



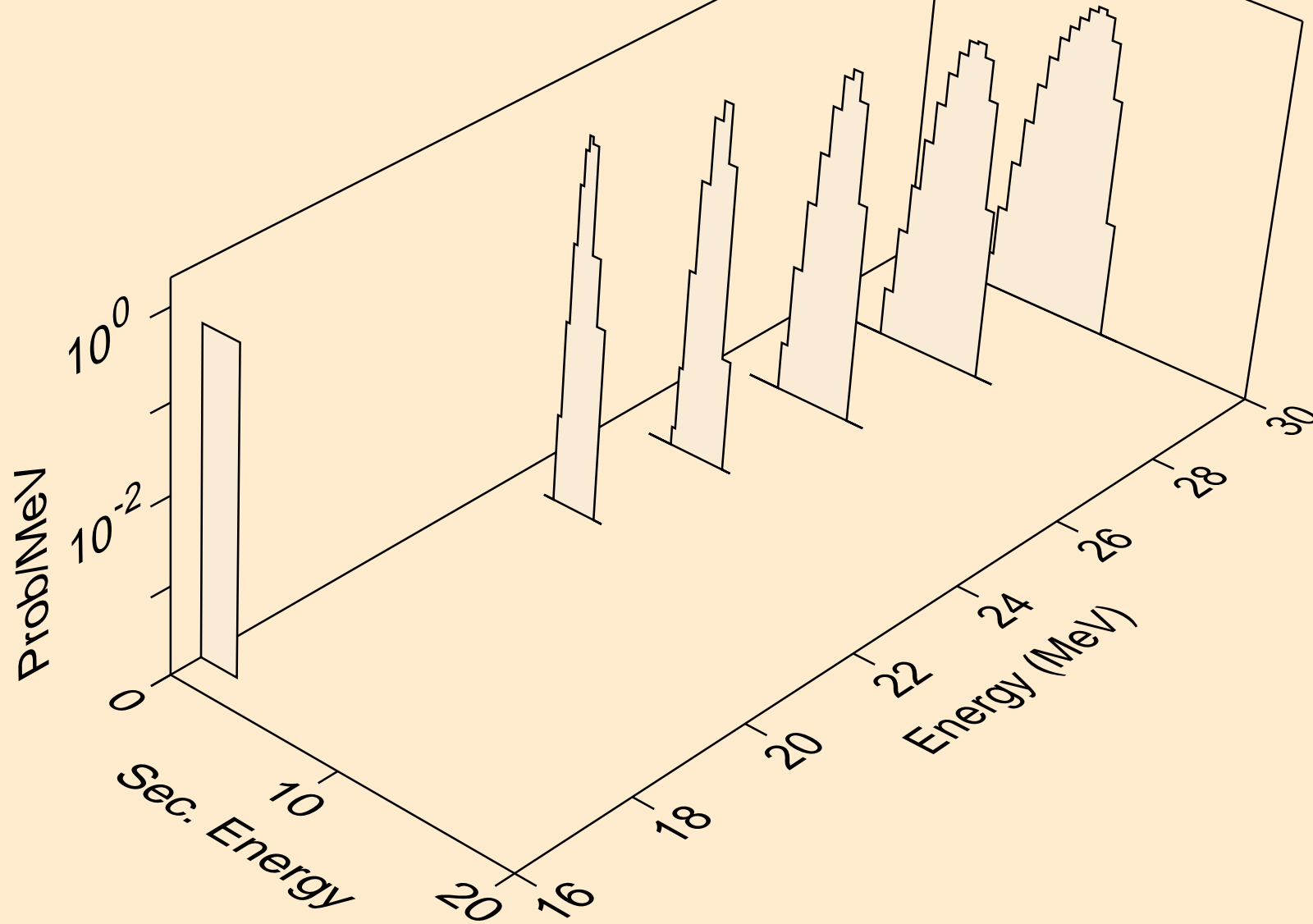
ZR082 PROTON ACER TENDL-2024 LIBRARY; T=0.K  
alphas from (p,x)



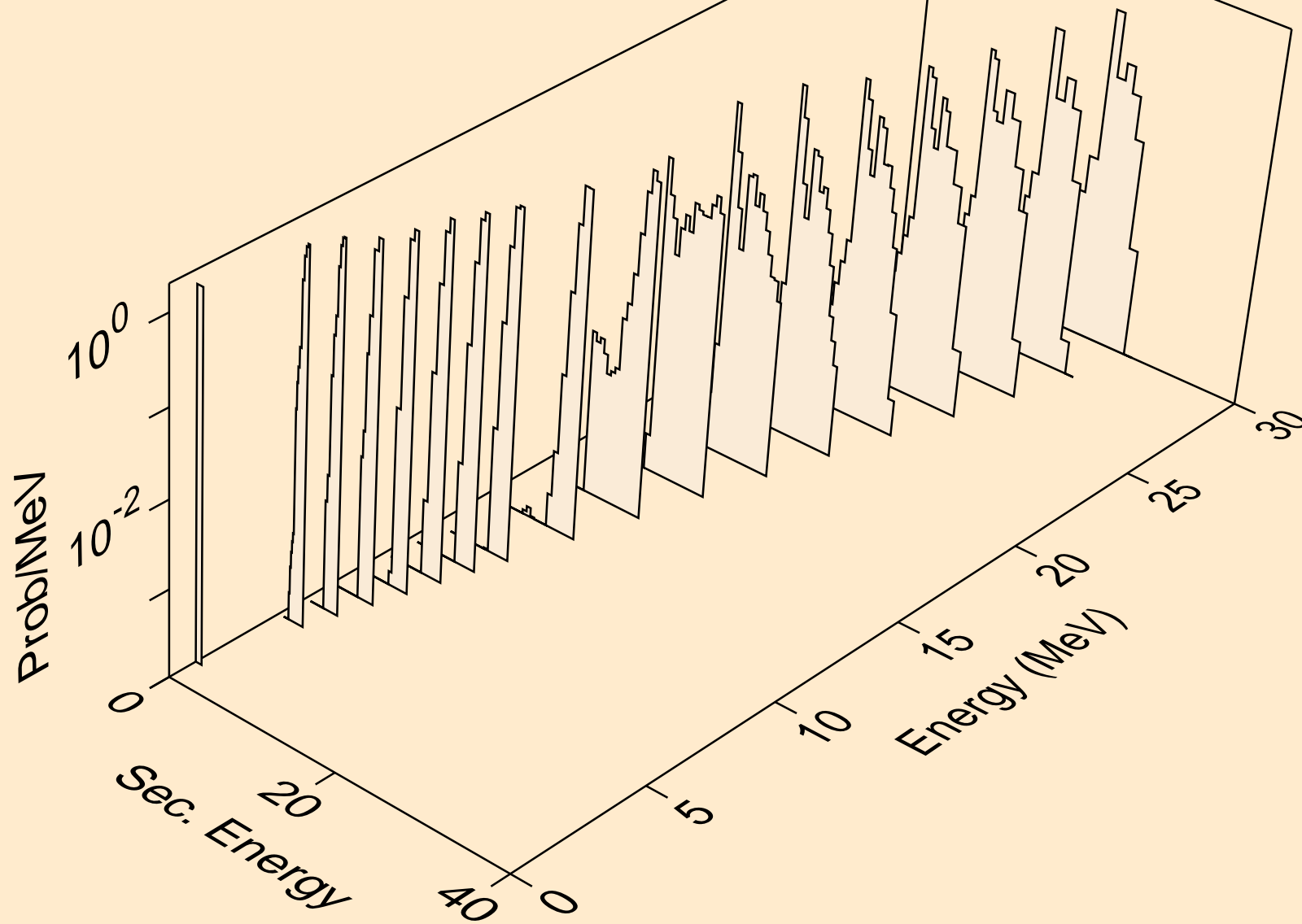
ZR082 PROTON ACER TENDL-2024 LIBRARY; T=0.K  
alphas from (p,n\*)a



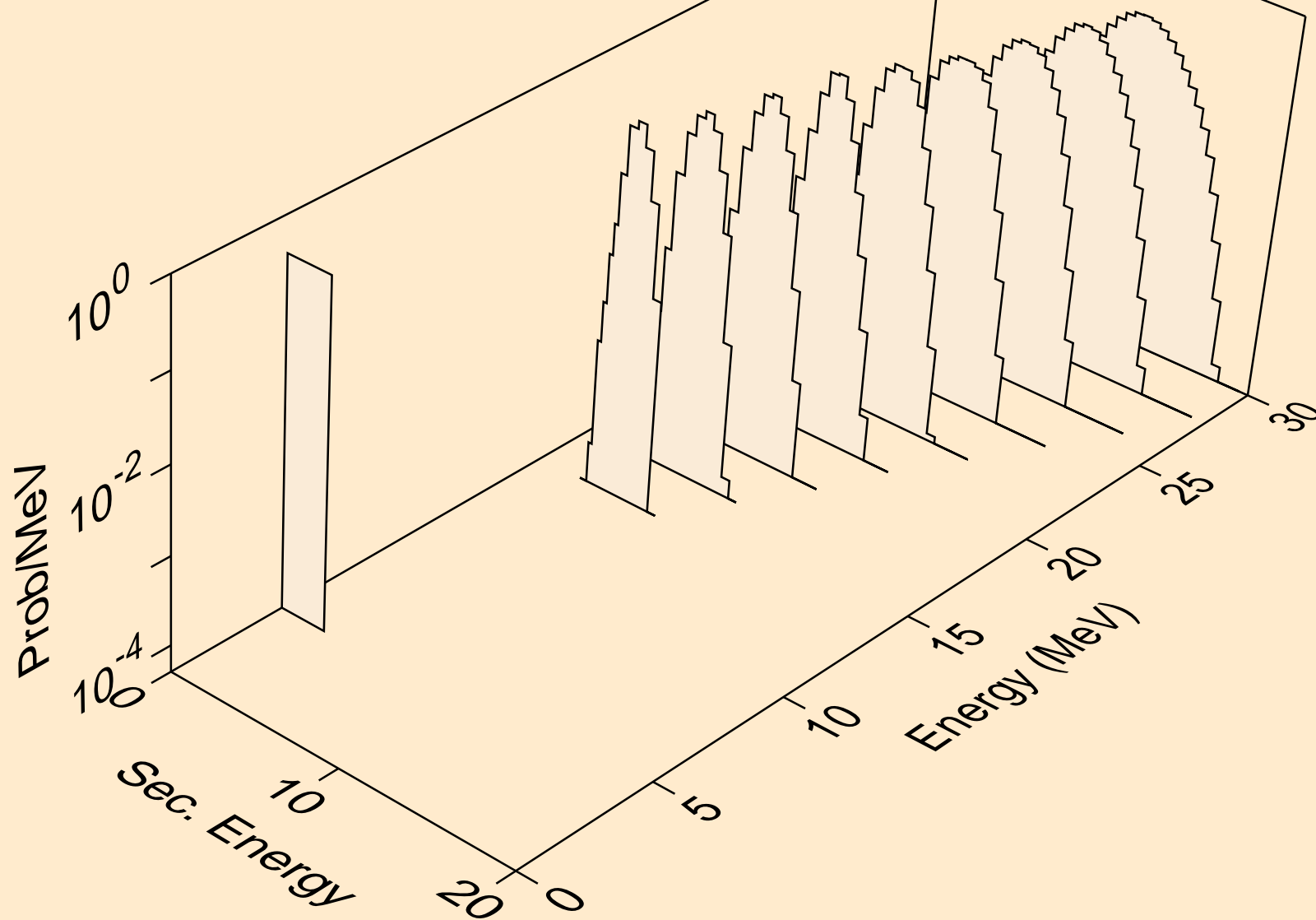
ZR082 PROTON ACER TENDL-2024 LIBRARY; T=0.K  
alphas from (p,npa)



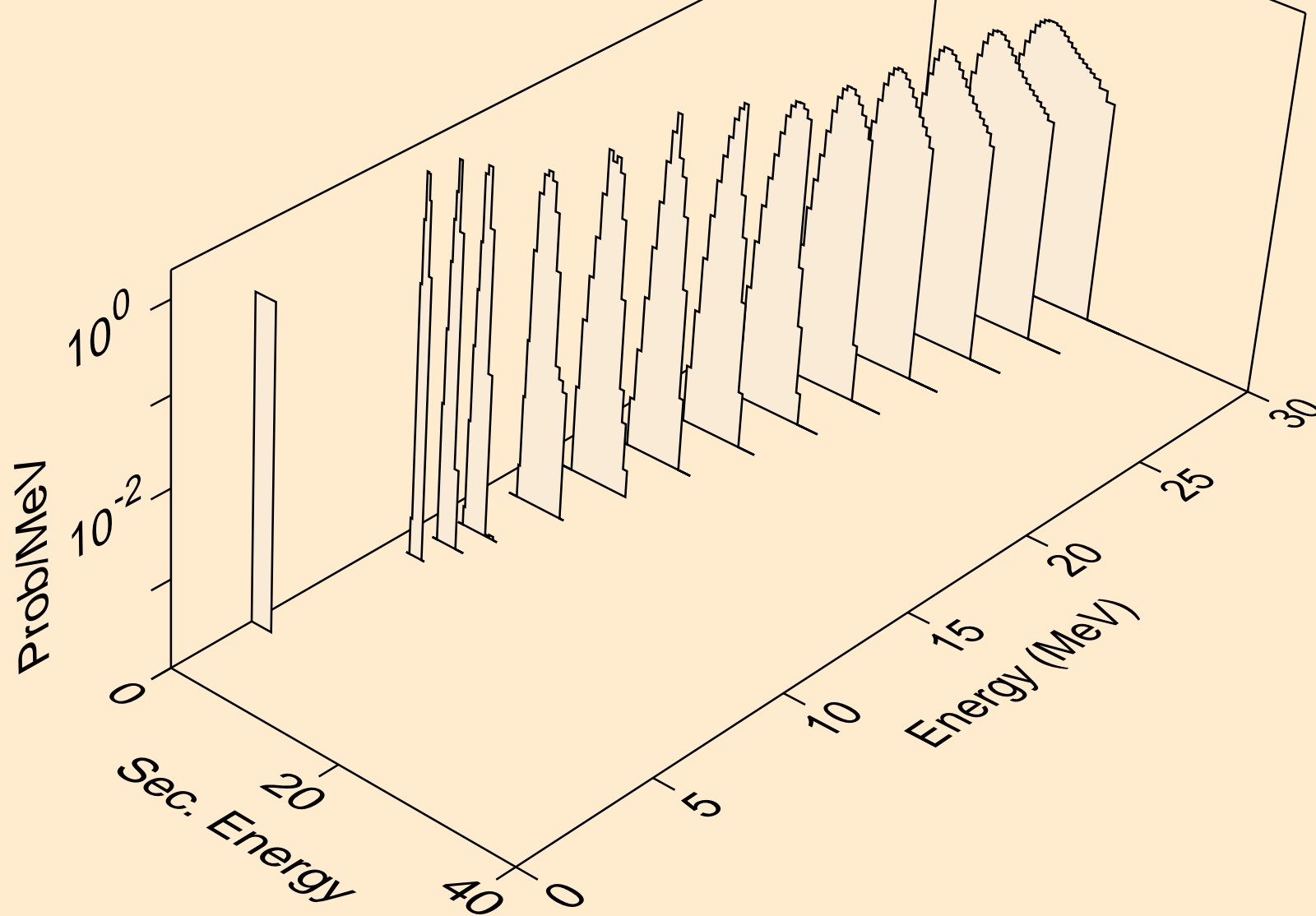
ZR082 PROTON ACER TENDL-2024 LIBRARY; T=0.K  
alphas from (p,a)



ZR082 PROTON ACER TENDL-2024 LIBRARY; T=0.K  
alphas from (p,2a)



ZR082 PROTON ACER TENDL-2024 LIBRARY; T=0.K  
alphas from (p,pa)



ZR082 PROTON ACER TENDL-2024 LIBRARY; T=0.K  
alphas from (p,da)

