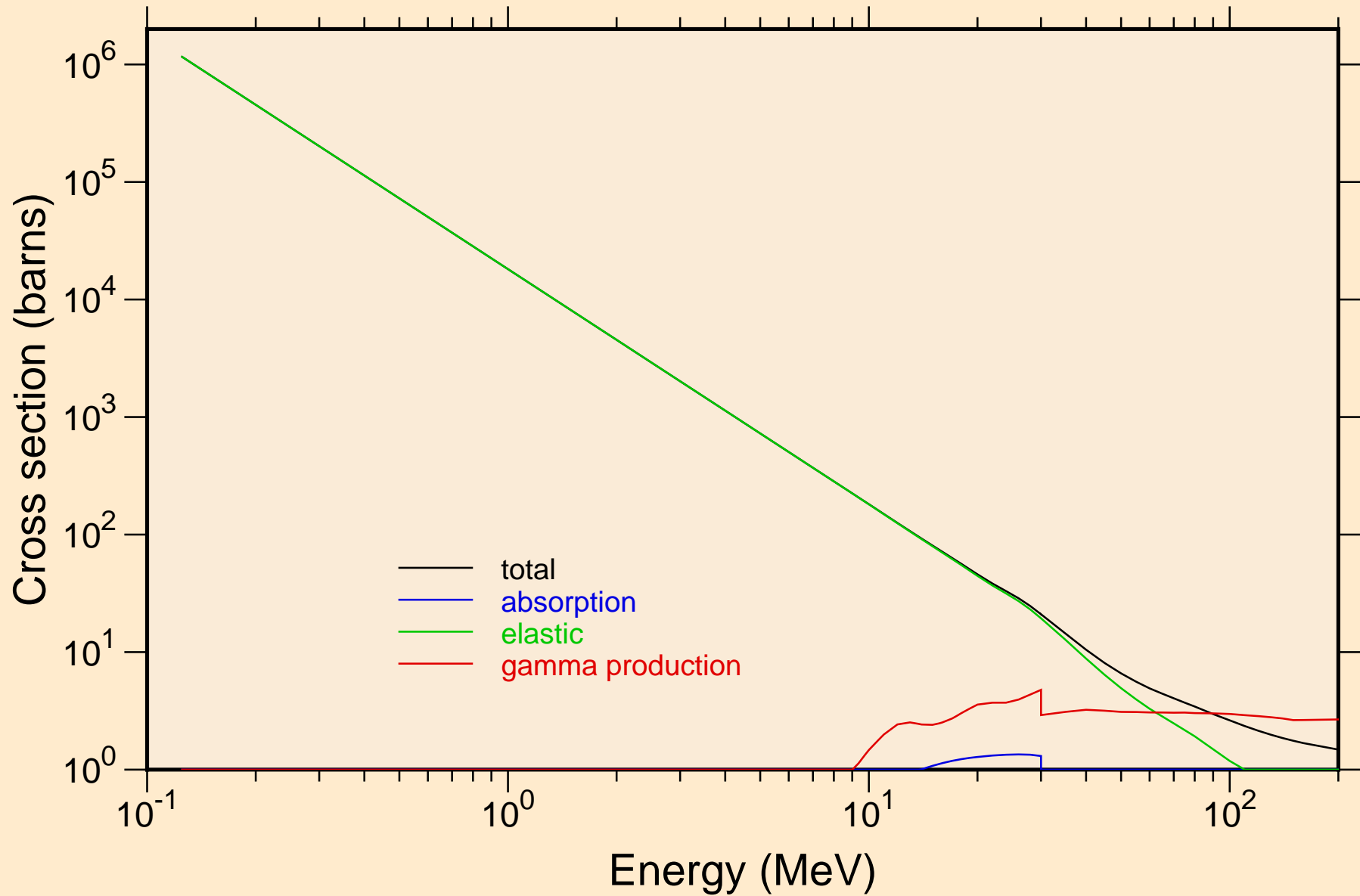
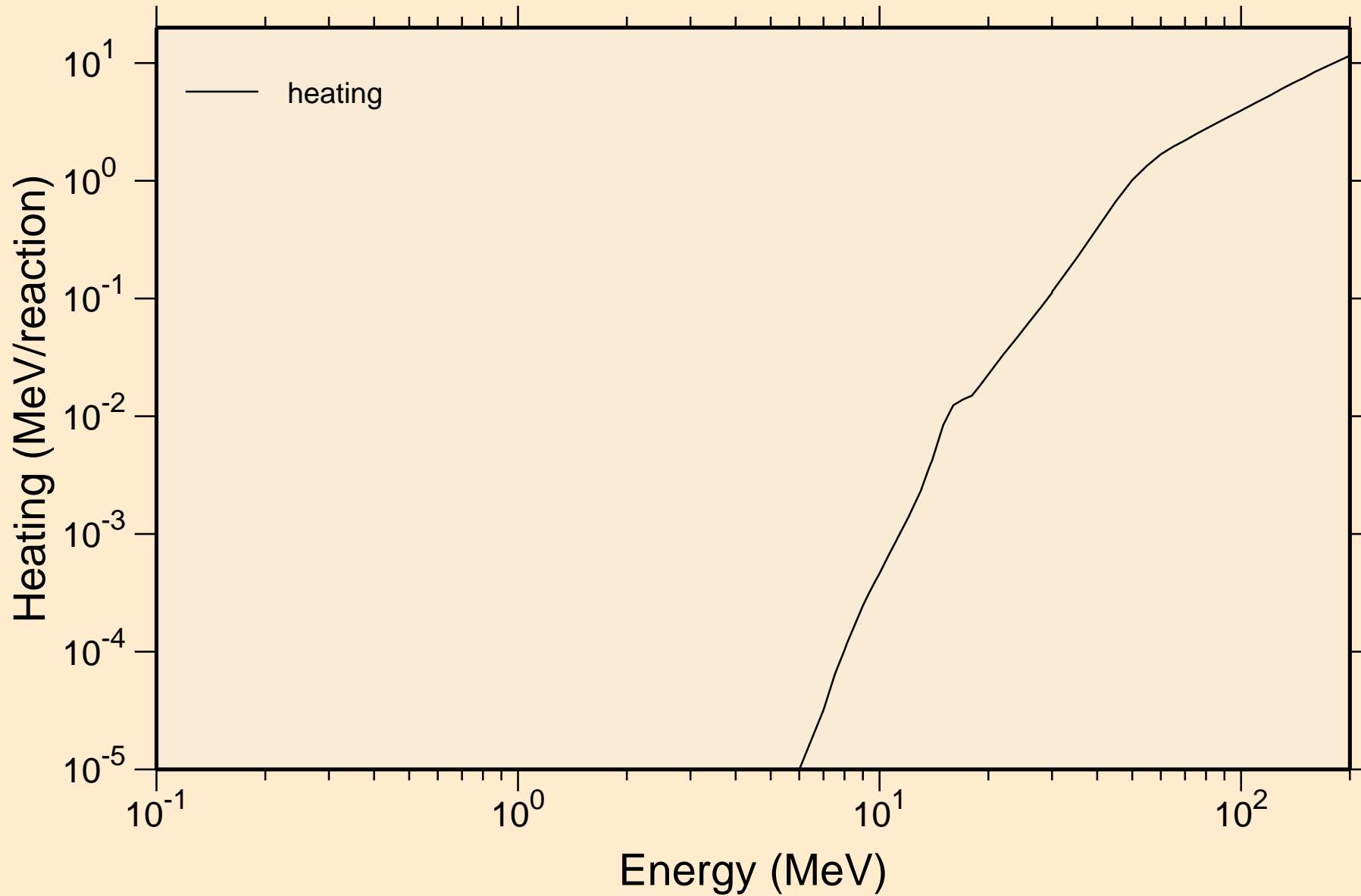


XE138 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Principal cross sections



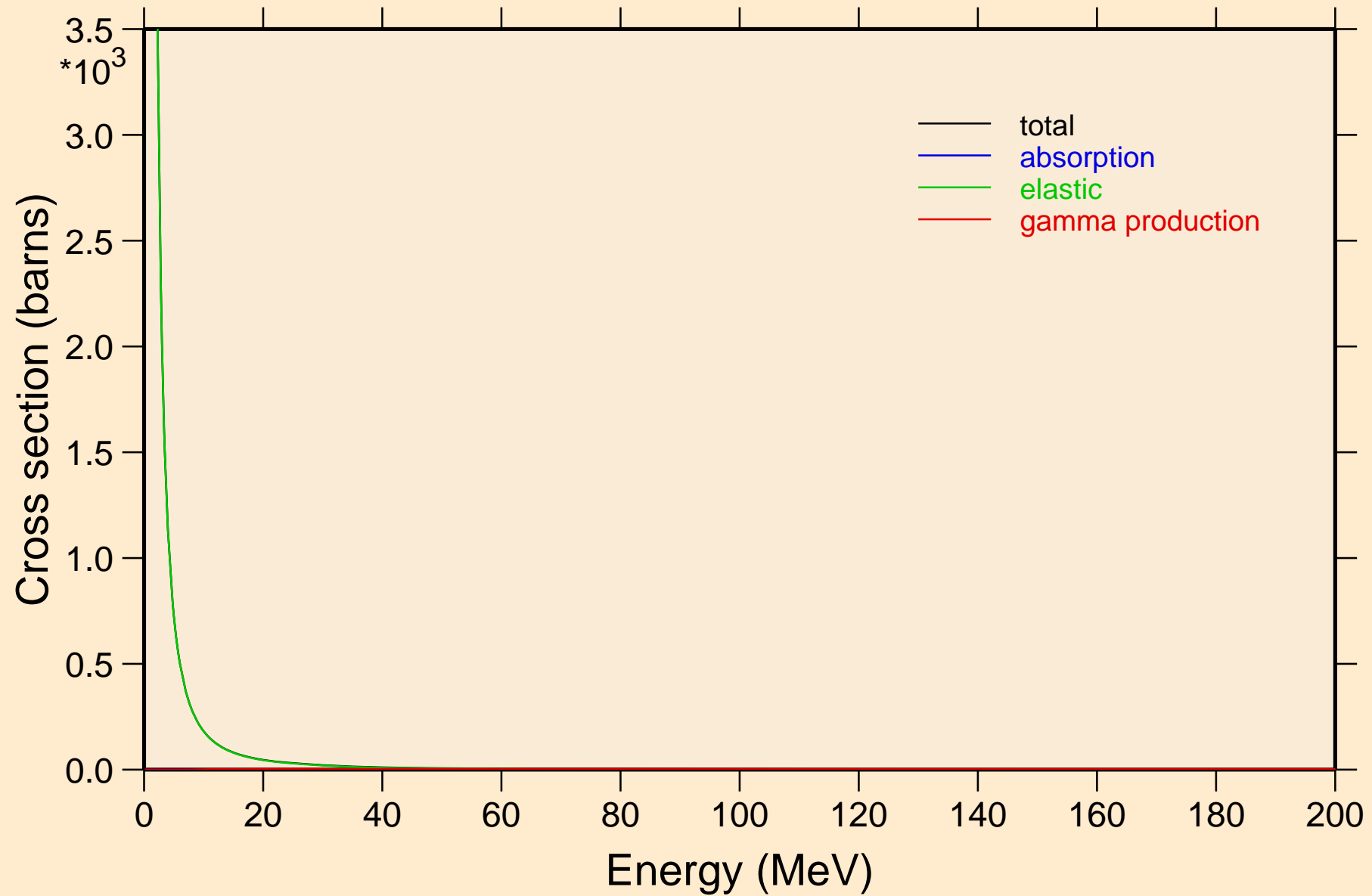
# XE138 PROTON ACER TENDL-2023 LIBRARY; T=0.K

## Heating



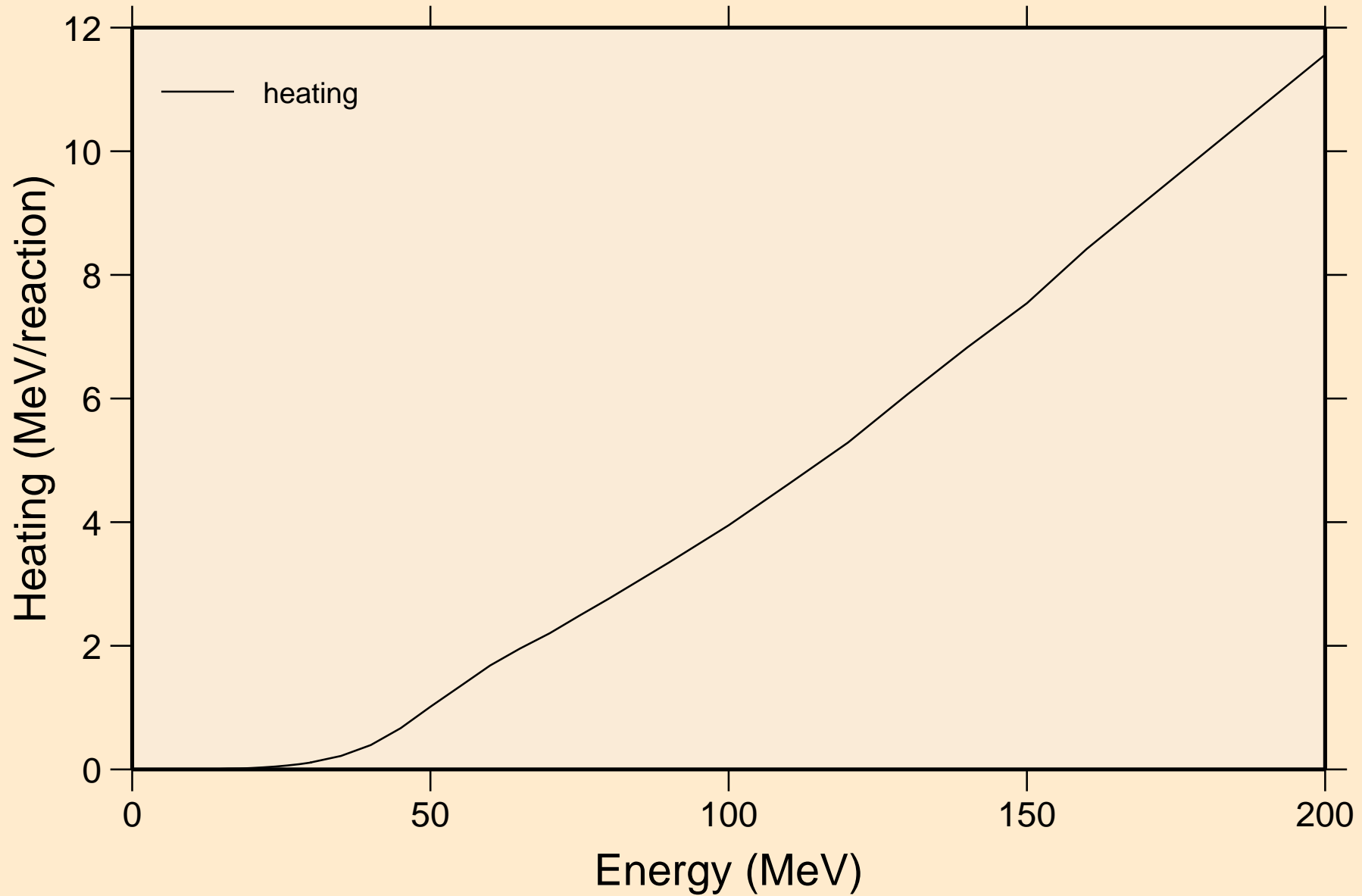
# XE138 PROTON ACER TENDL-2023 LIBRARY; T=0.K

## Principal cross sections



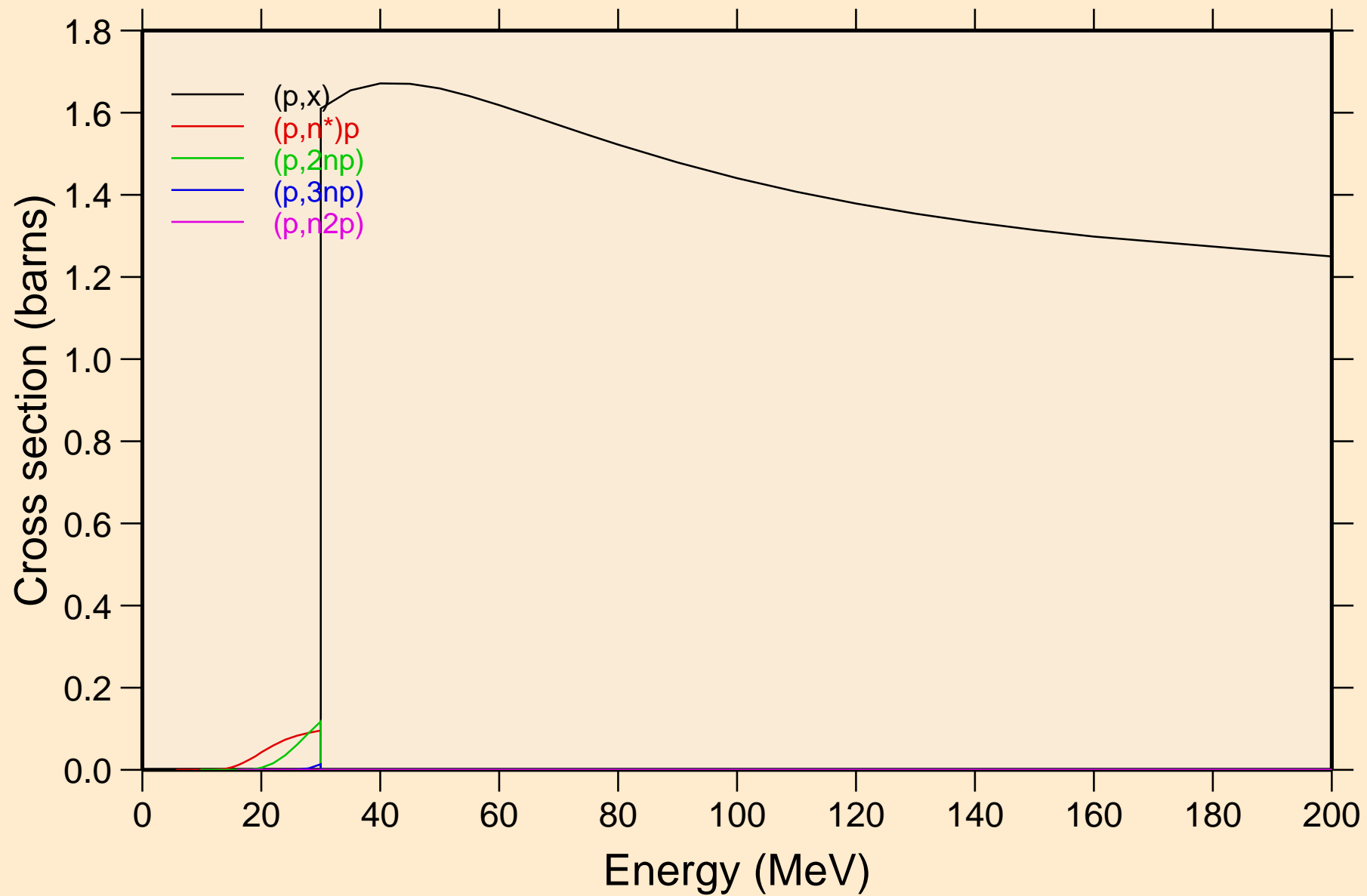
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## Heating

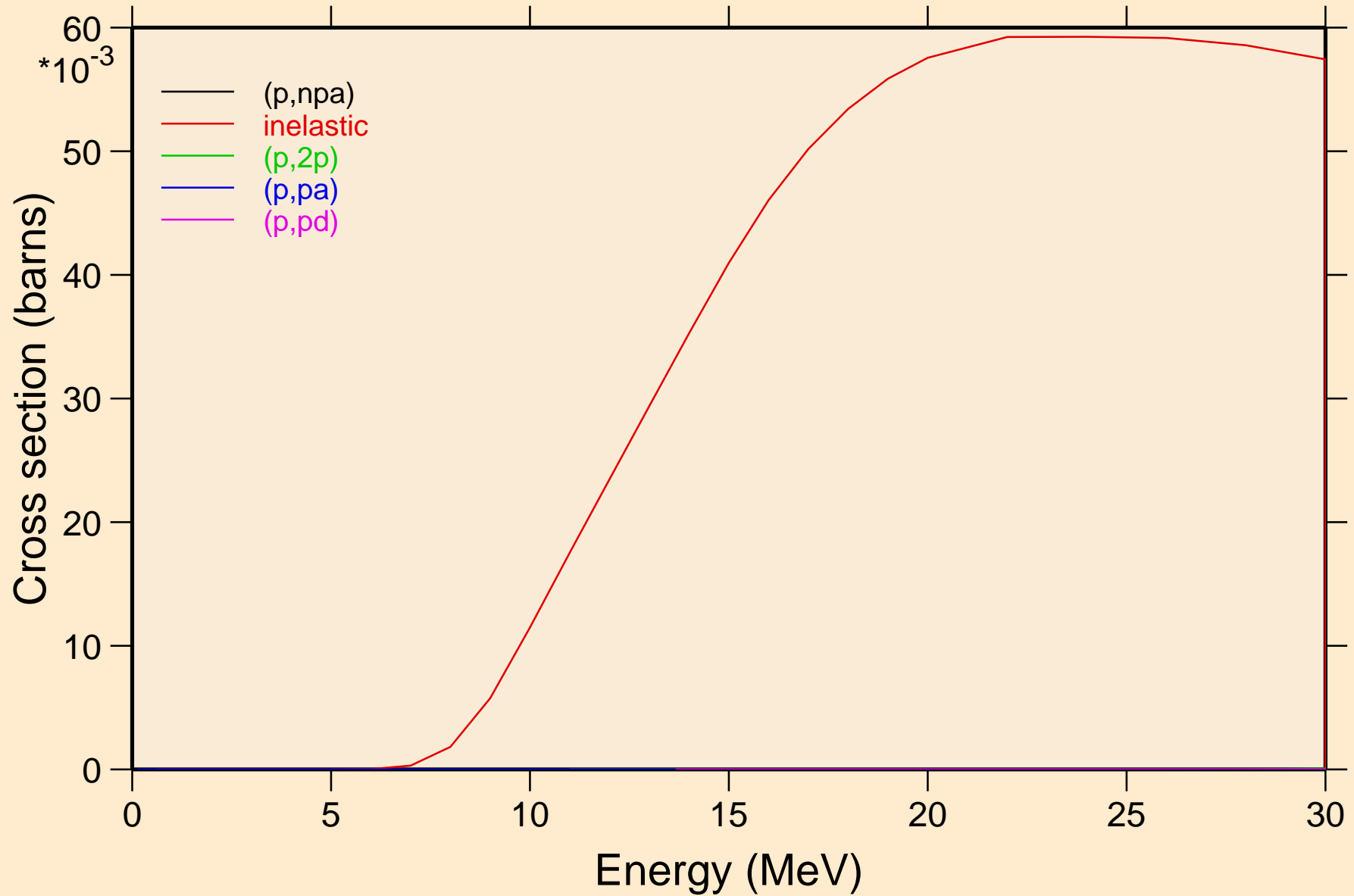


# XE138 PROTON ACER TENDL-2023 LIBRARY; T=0.K

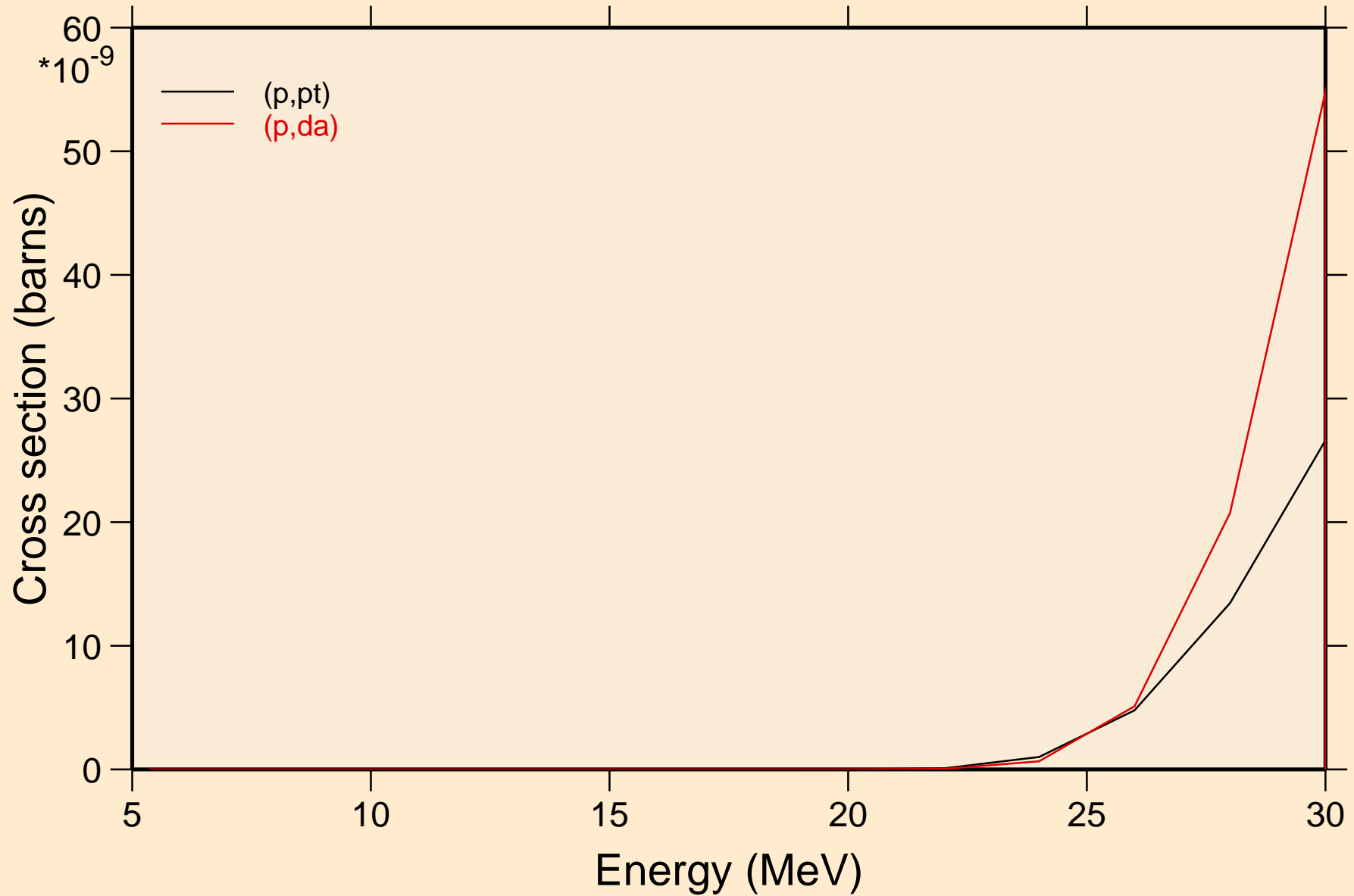
## Threshold reactions



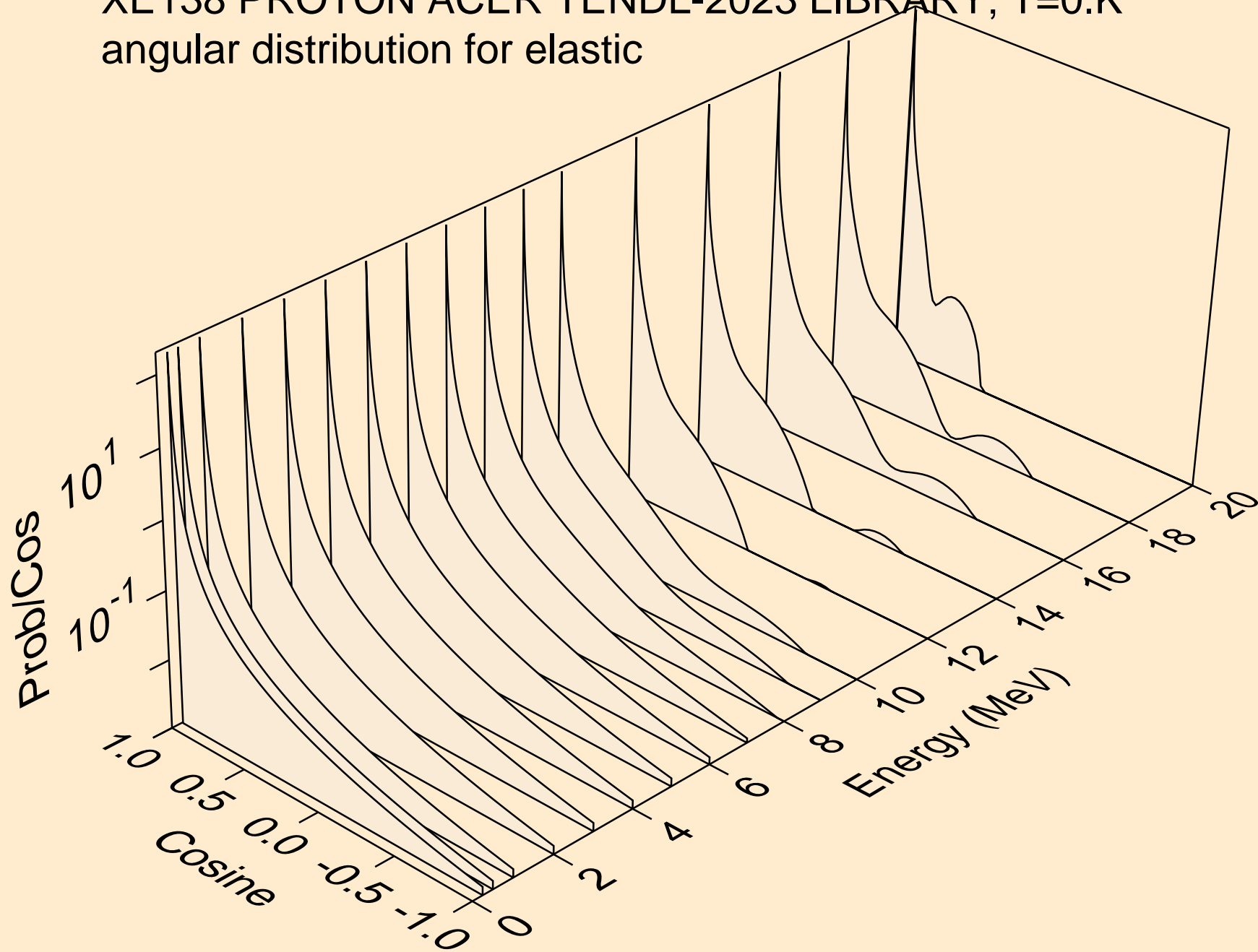
XE138 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Threshold reactions



XE138 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Threshold reactions

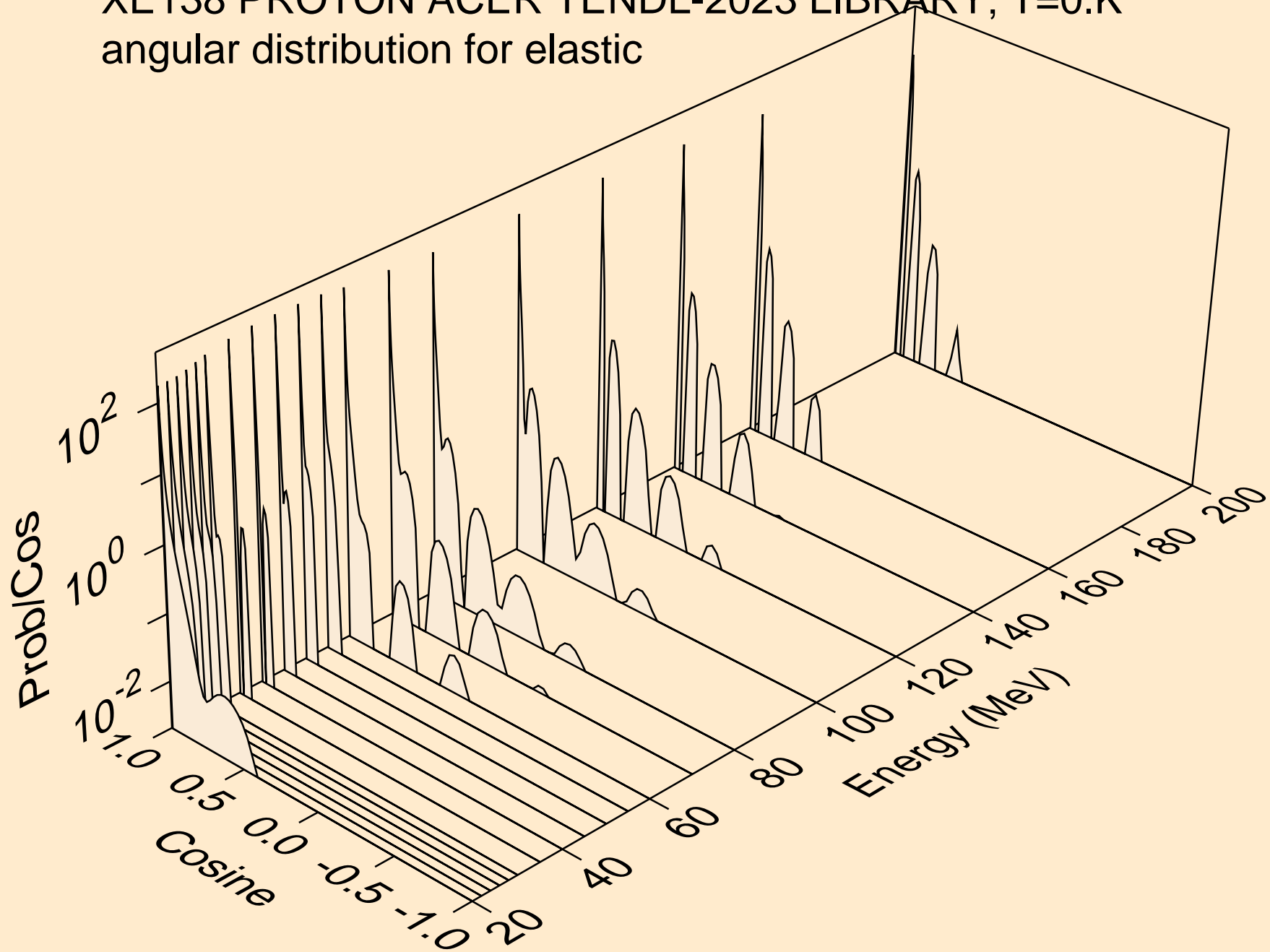


XE138 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for elastic

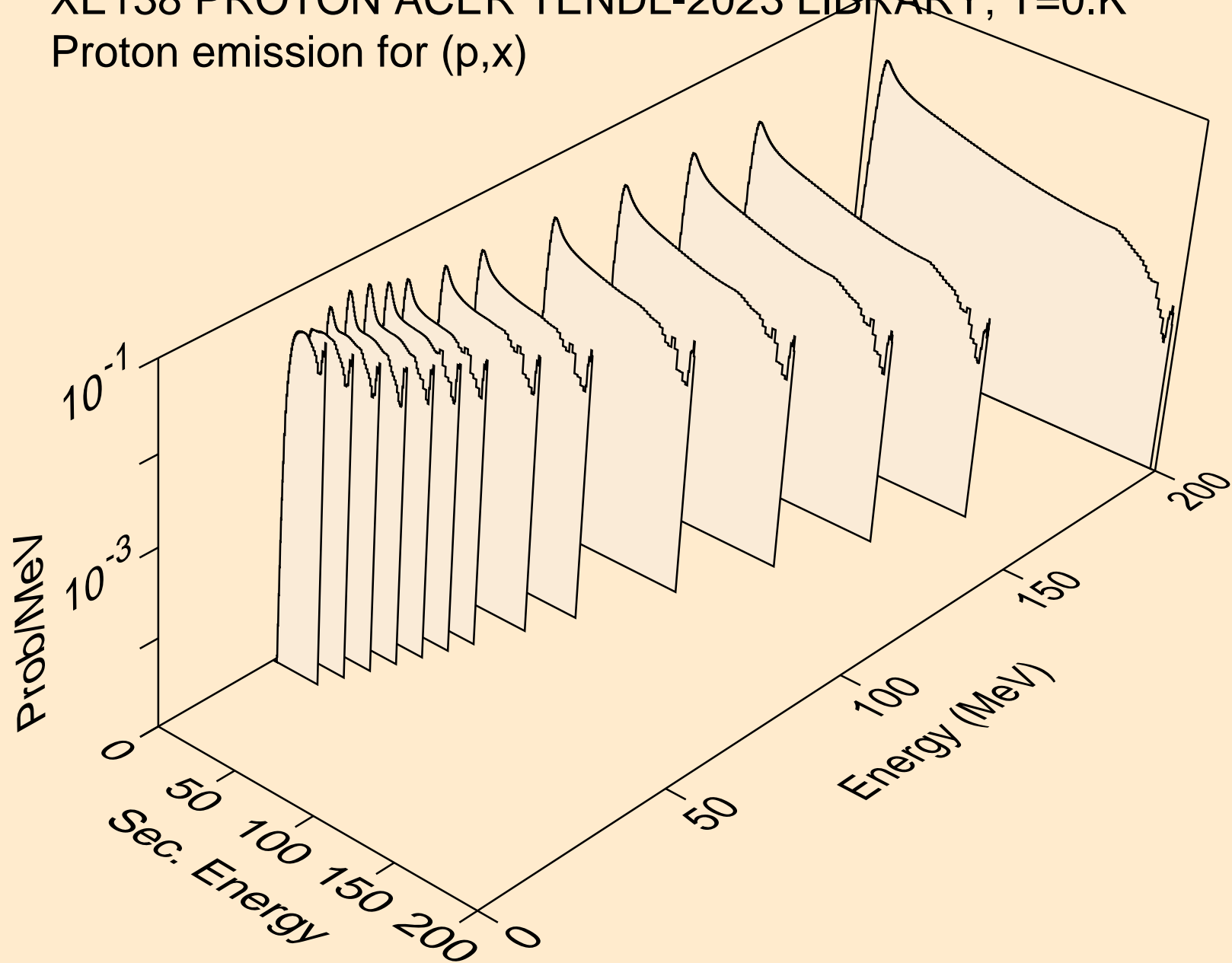




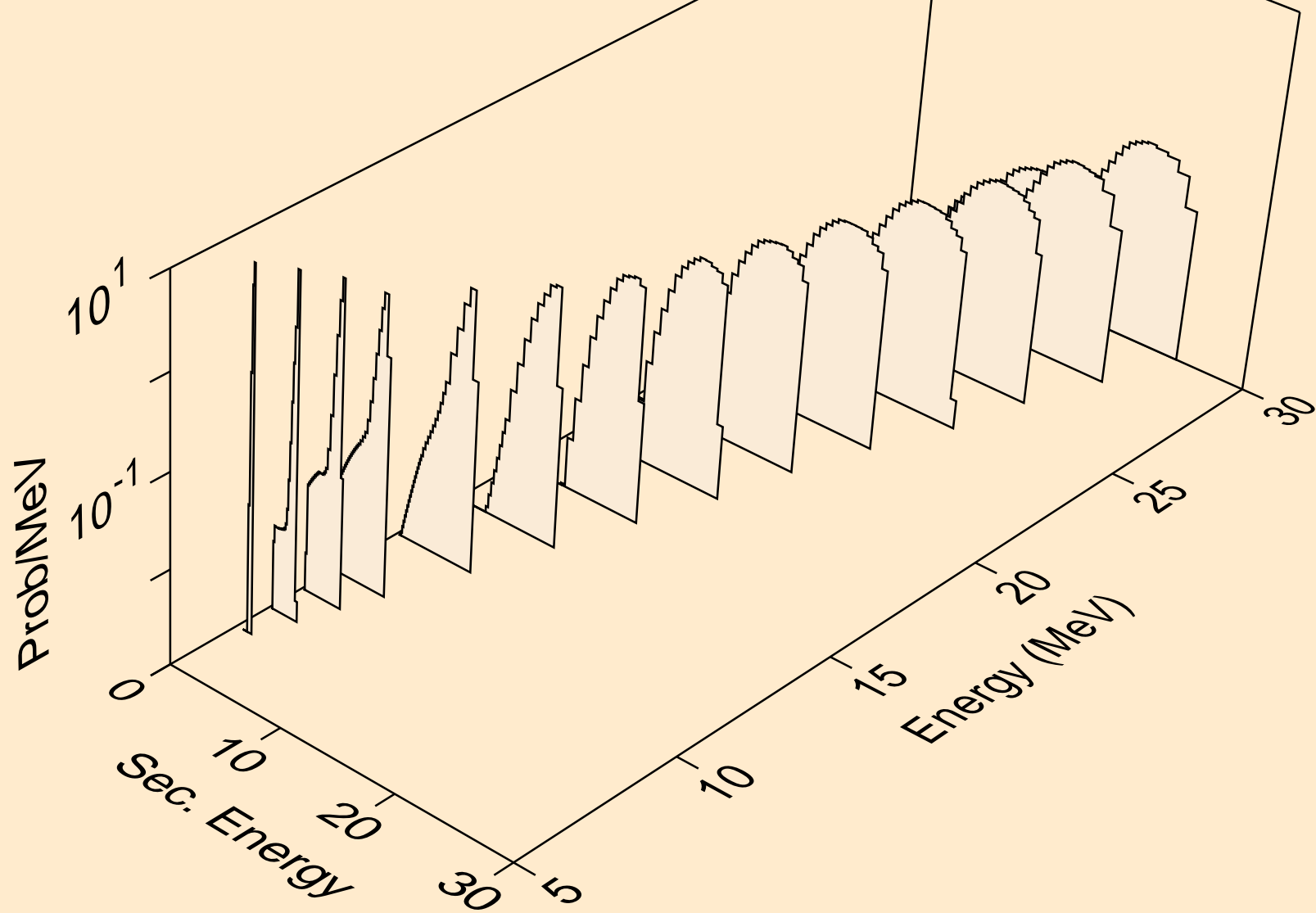
XE138 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for elastic



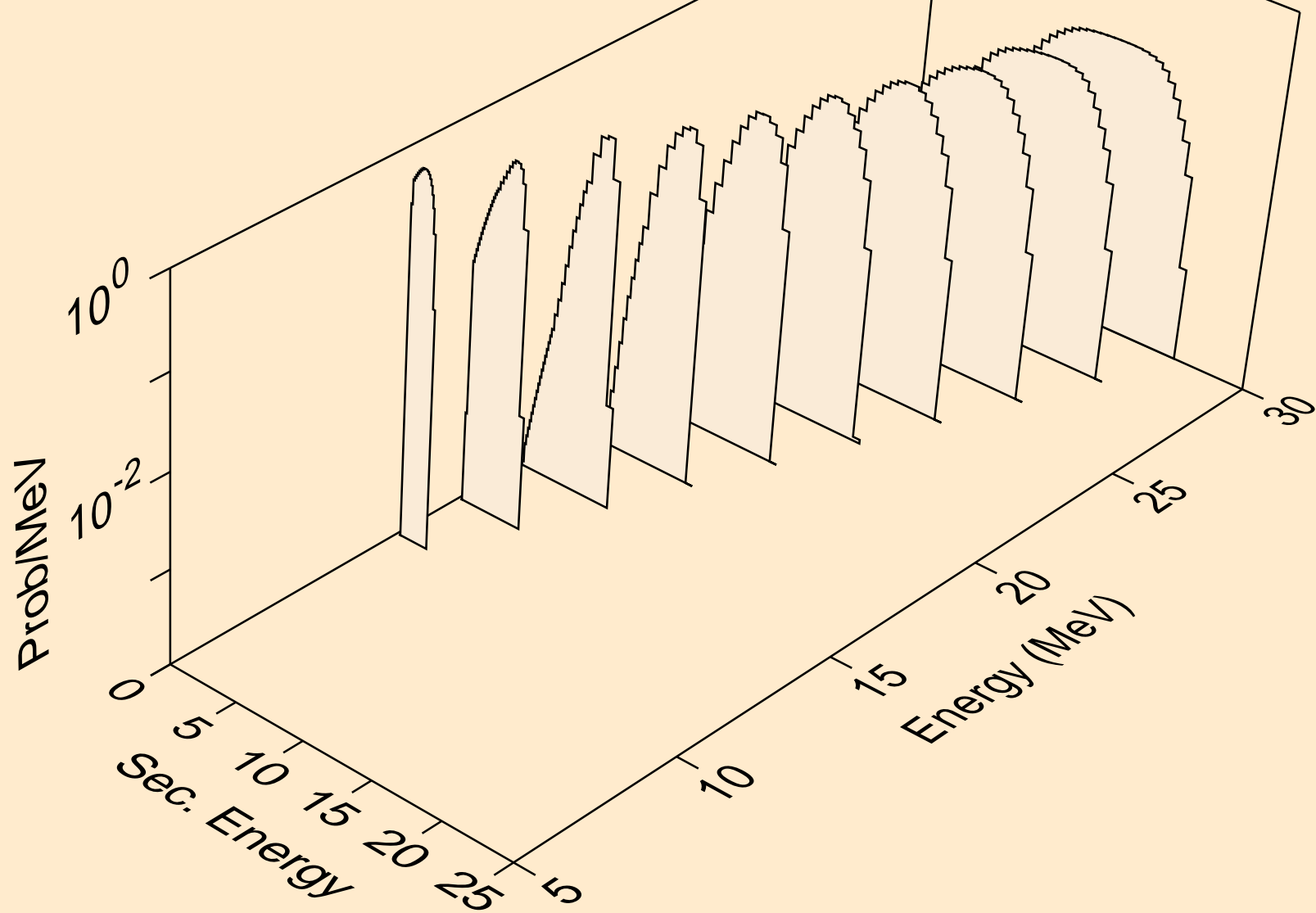
XE138 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Proton emission for (p,x)



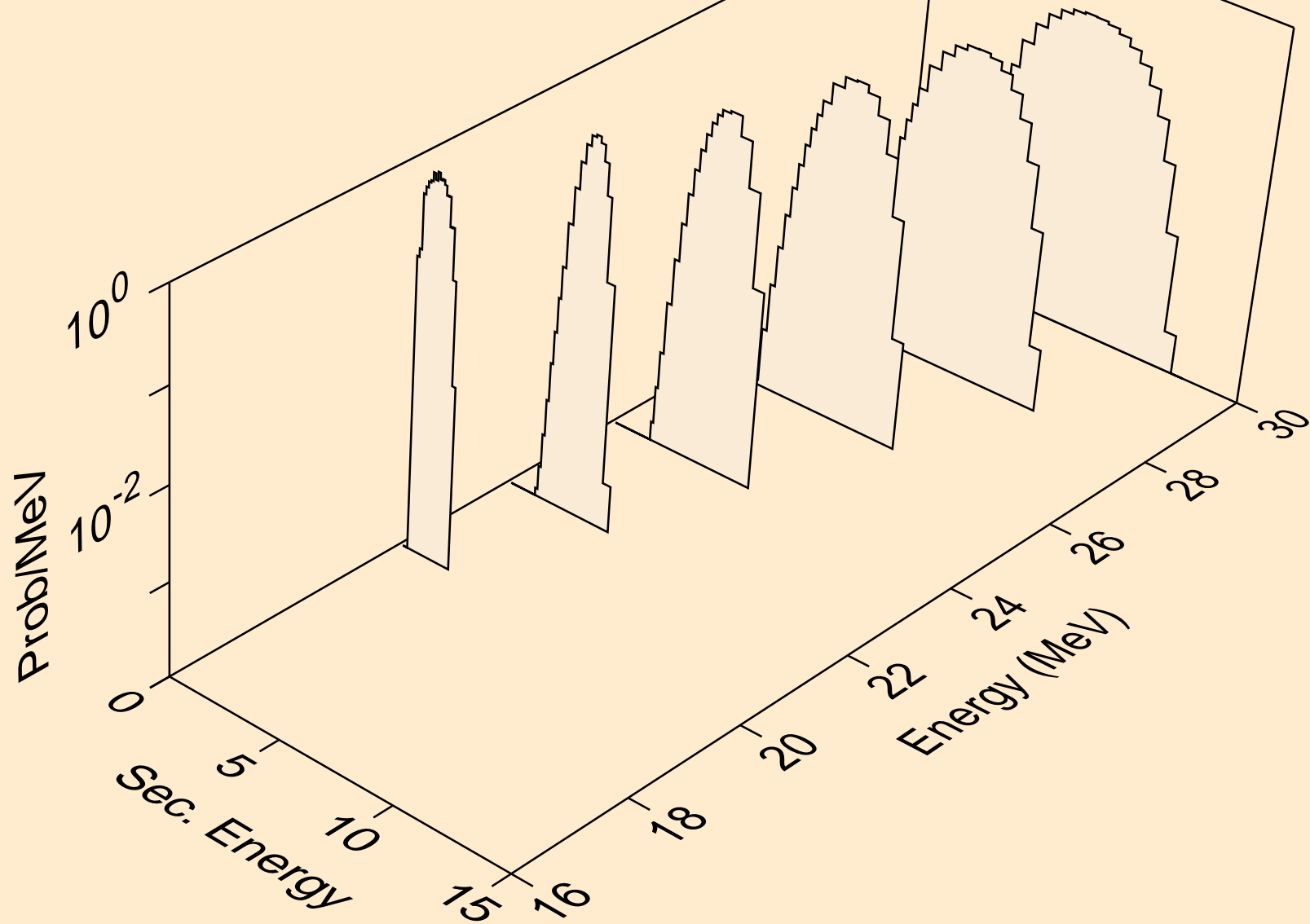
XE138 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Proton emission for (p,n\*)p



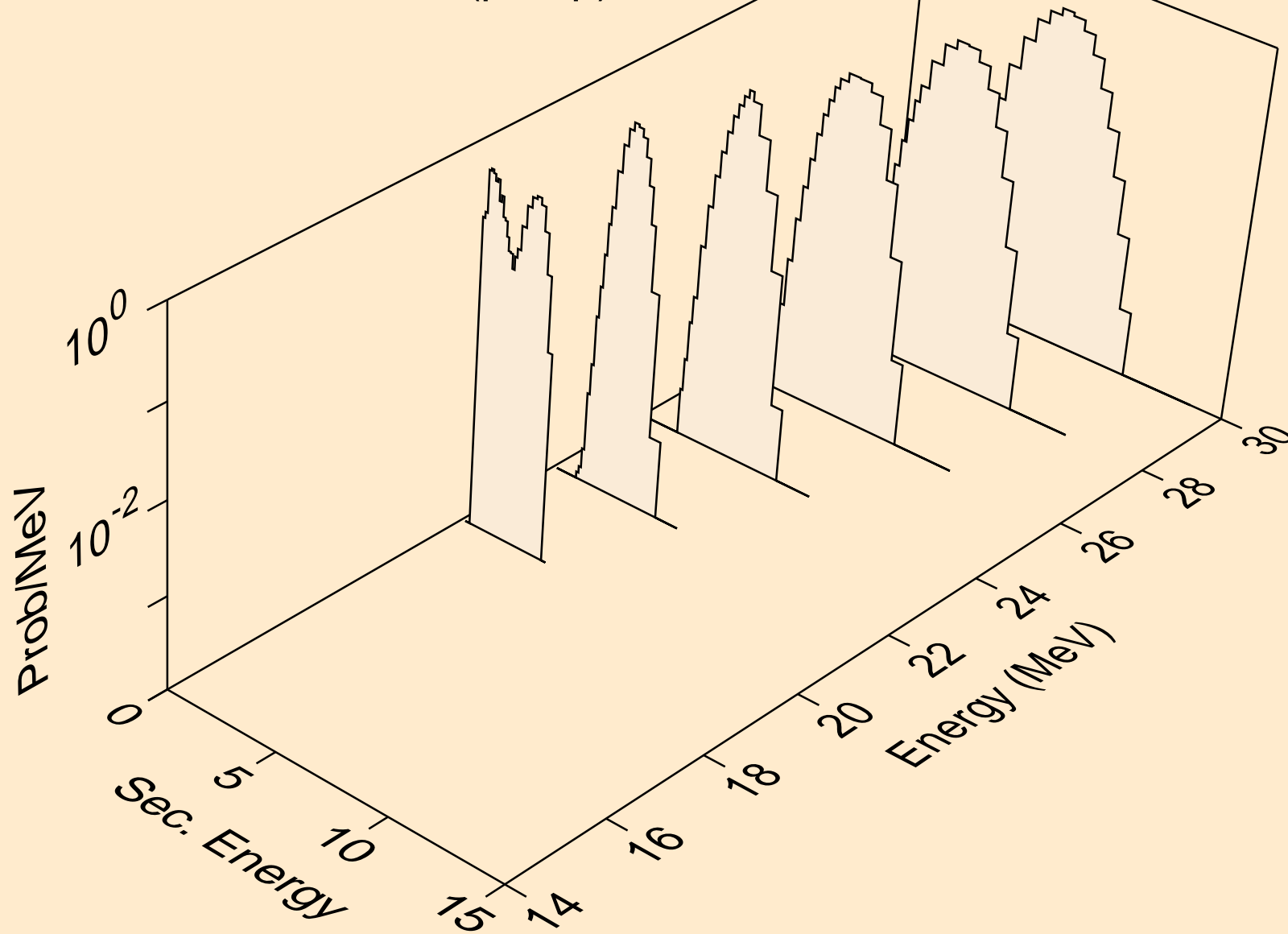
XE138 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Proton emission for (p,2np)



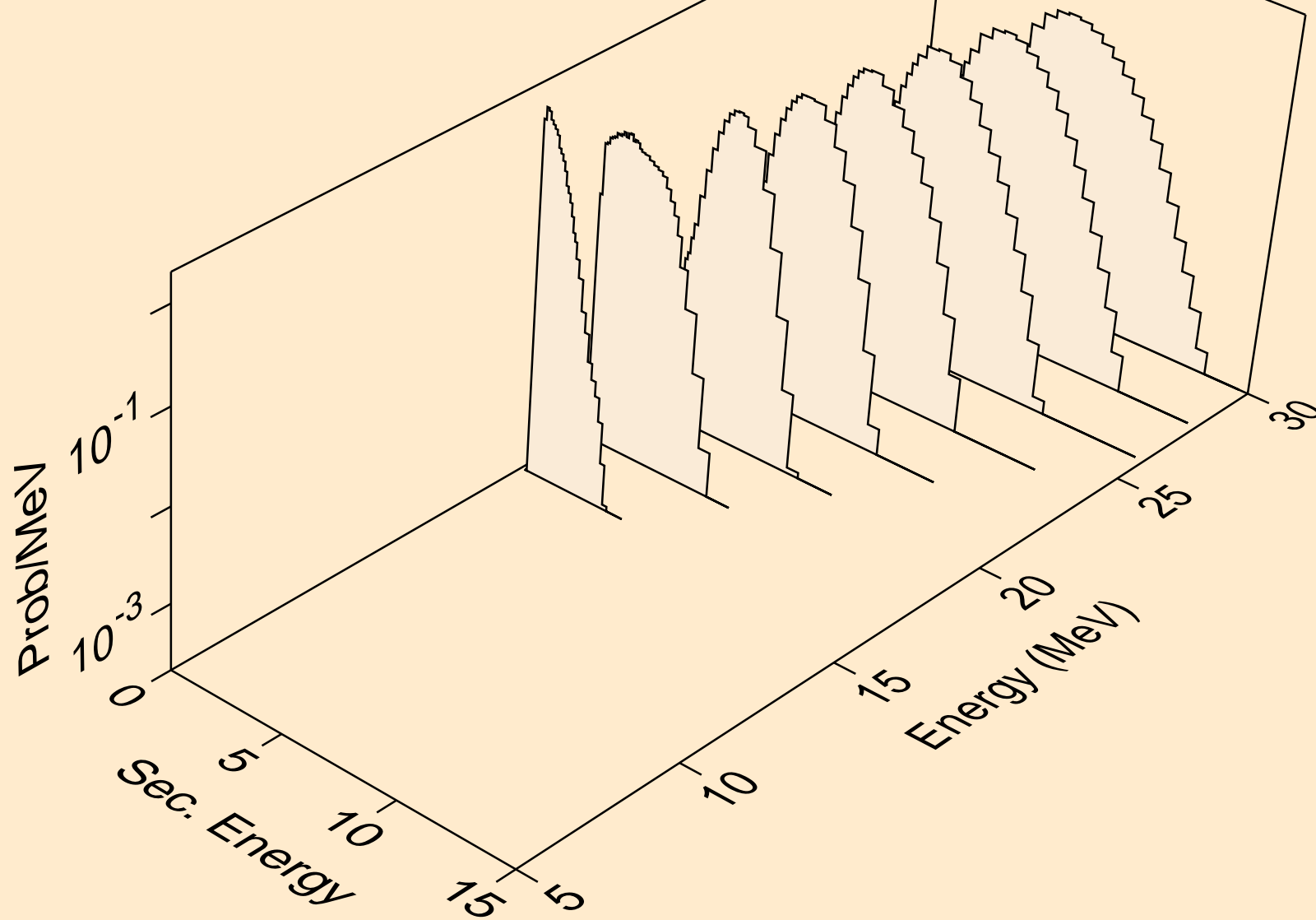
XE138 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Proton emission for (p,3np)



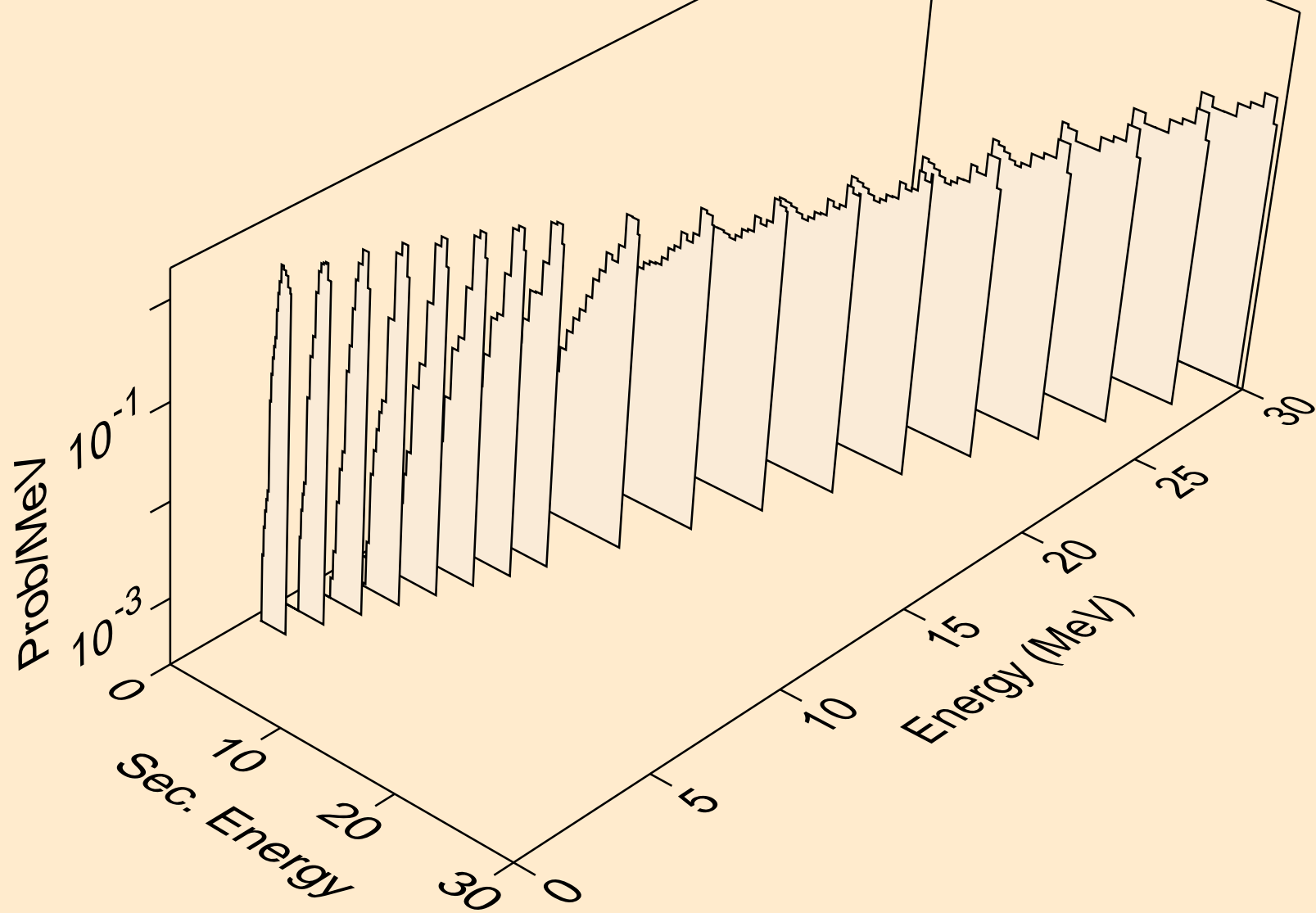
XE138 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Proton emission for (p,n2p)



XE138 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Proton emission for (p,npa)

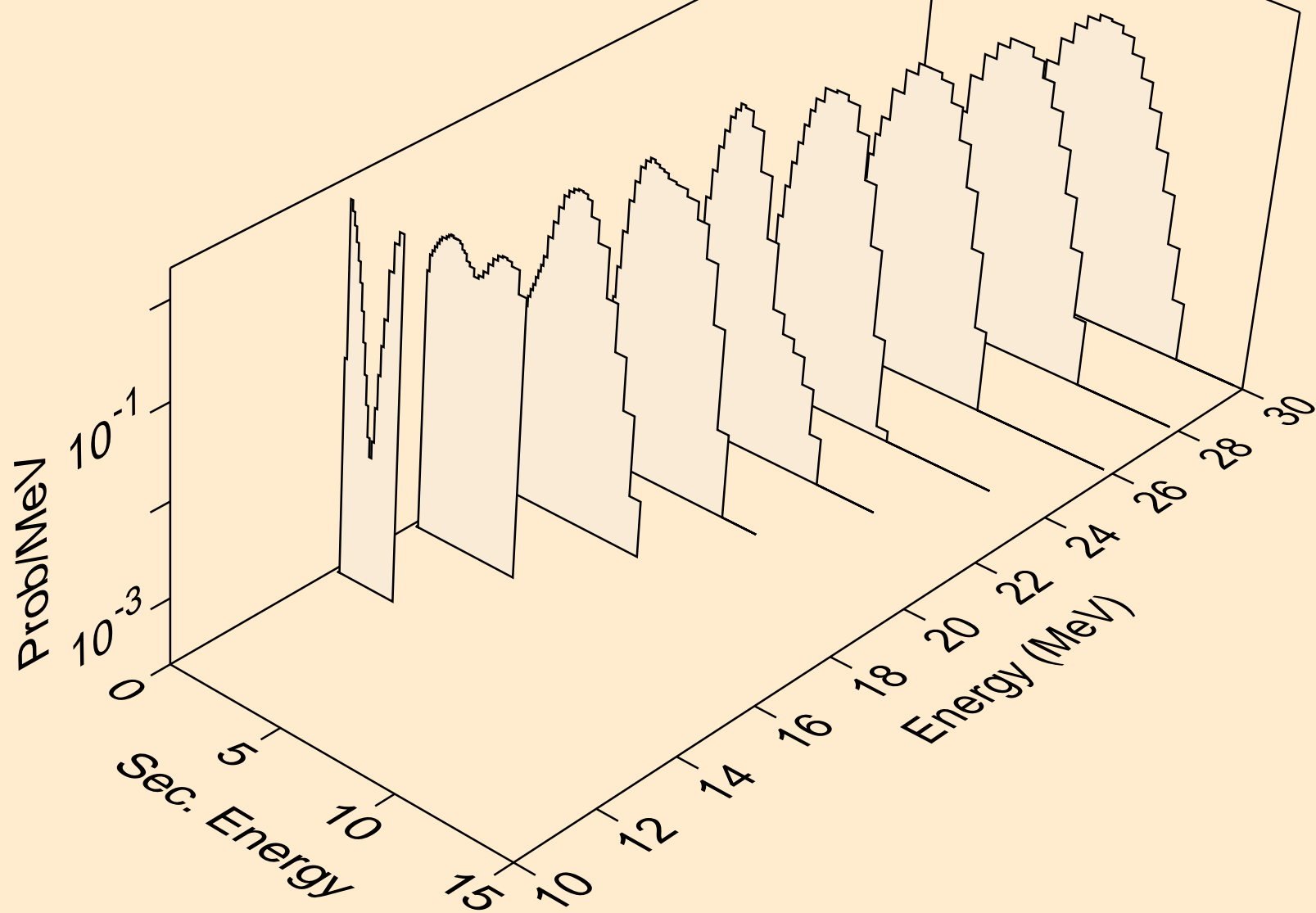


XE138 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Proton emission for inelastic

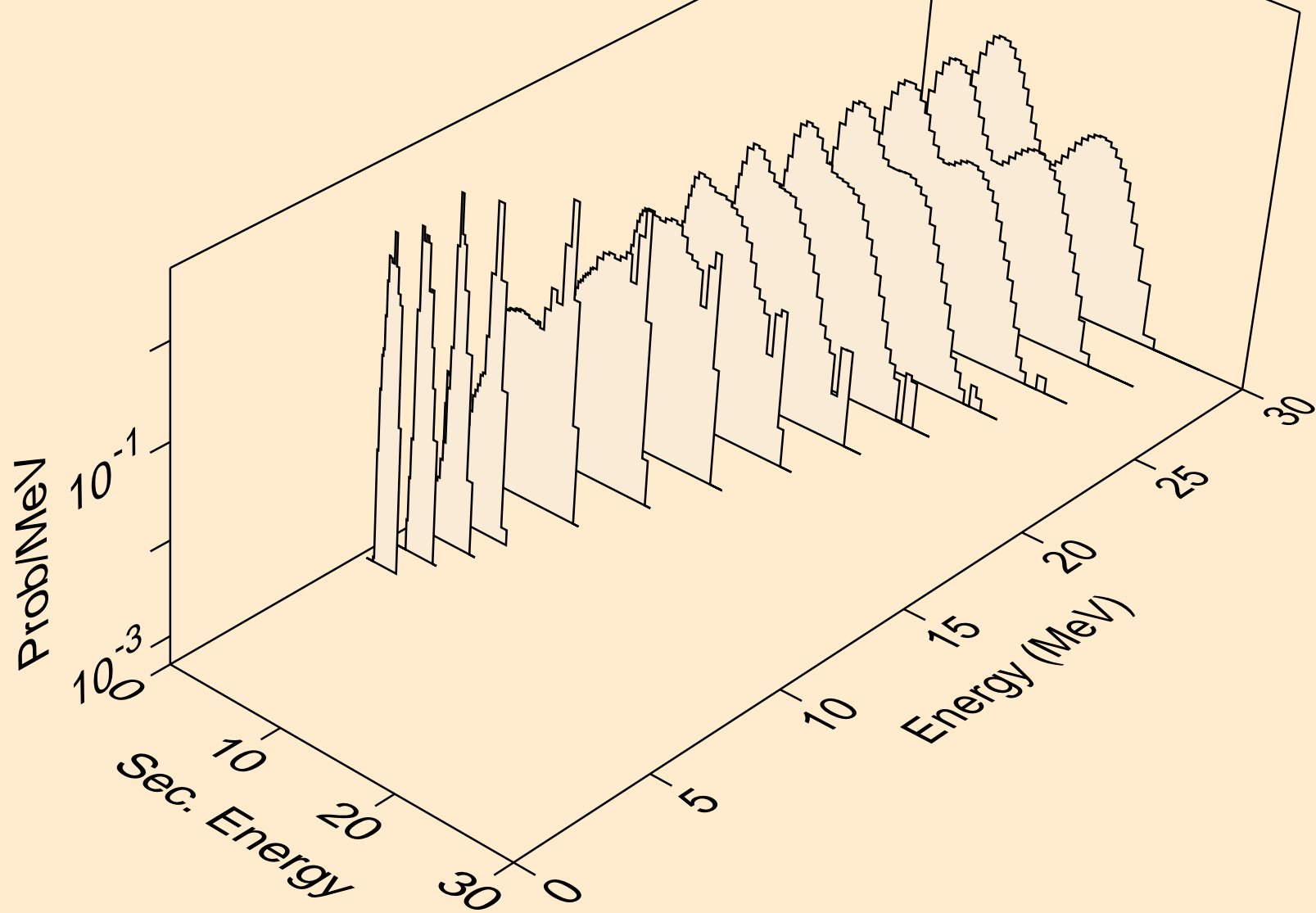




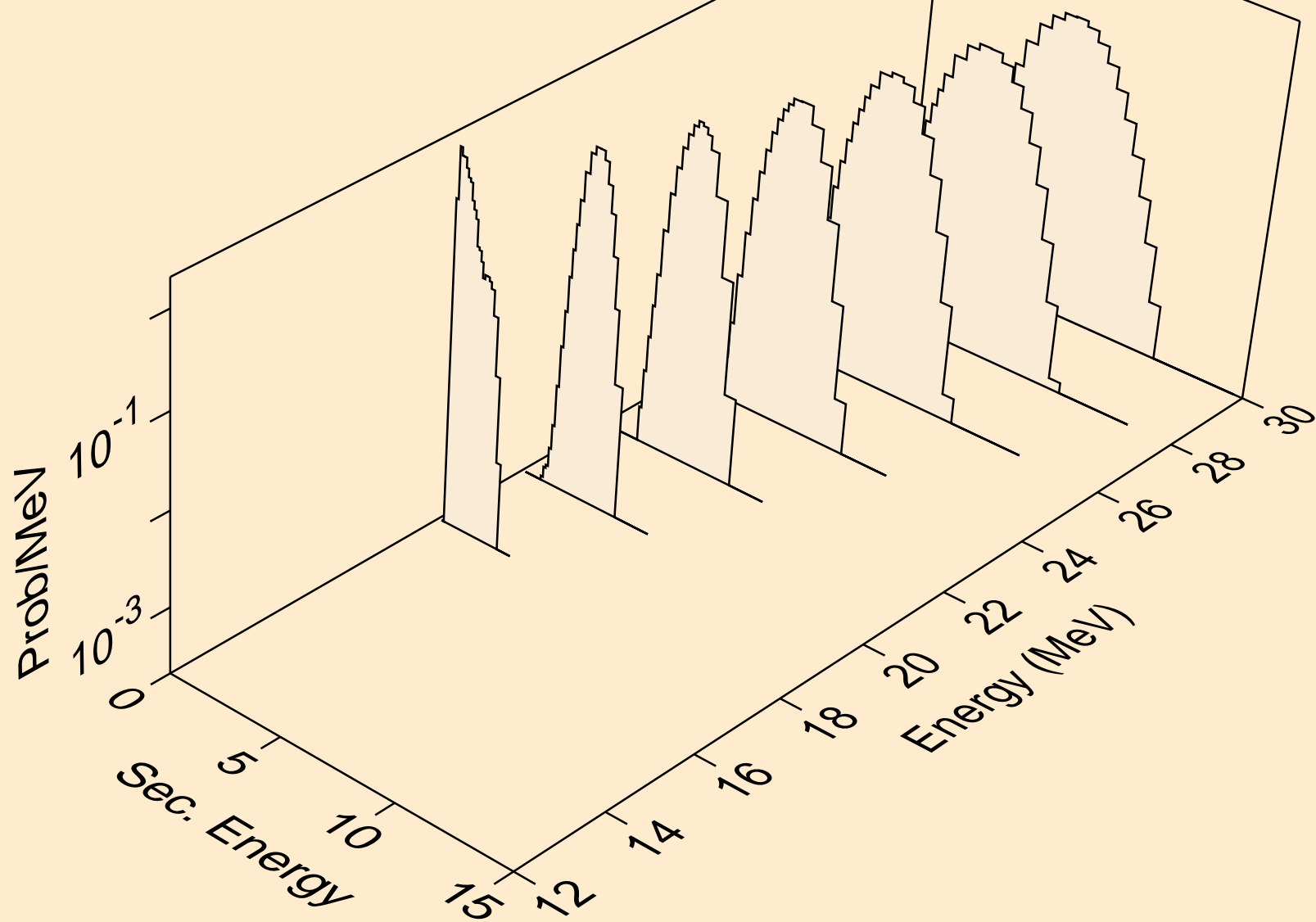
XE138 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Proton emission for (p,2p)



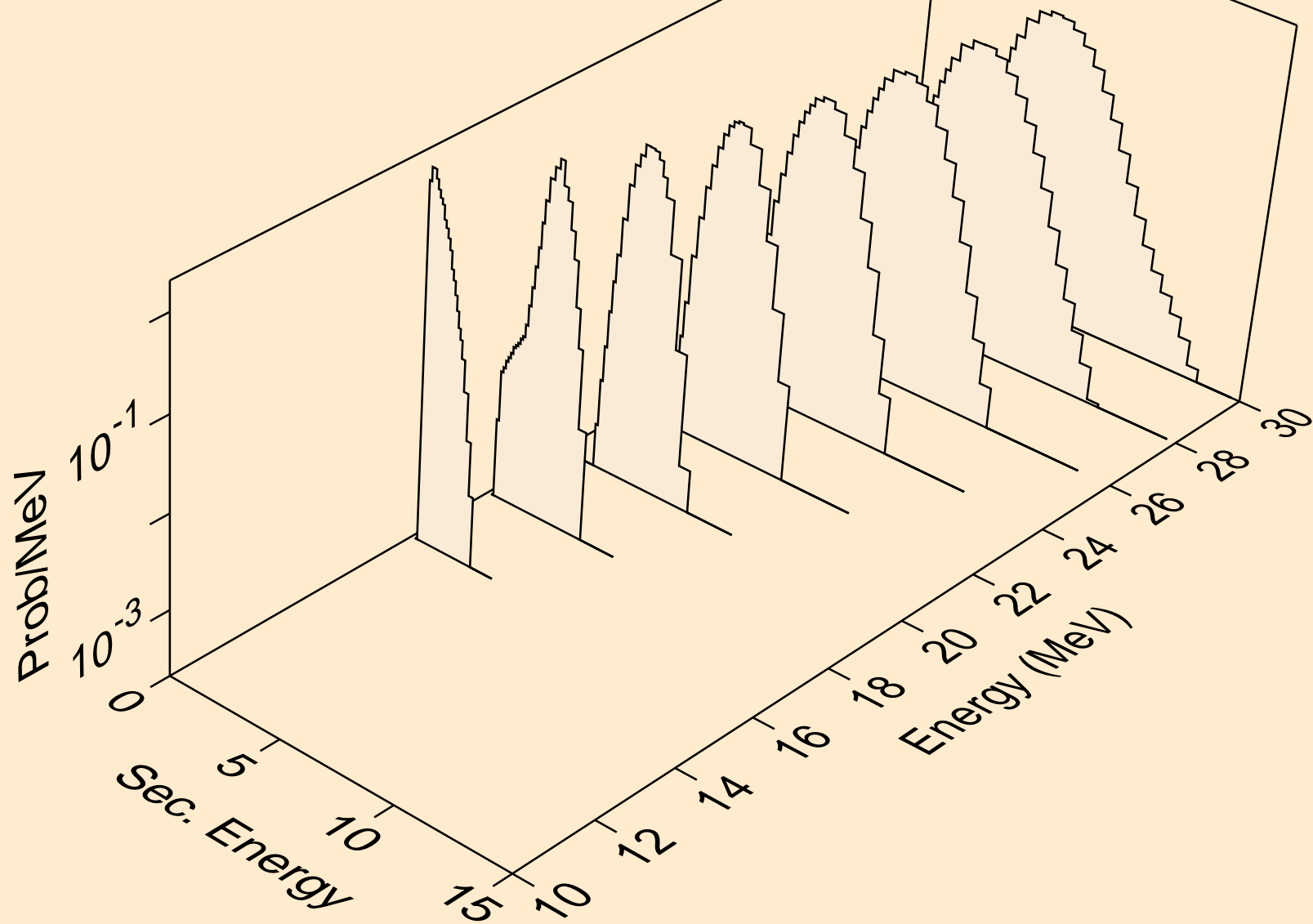
XE138 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Proton emission for (p,pa)



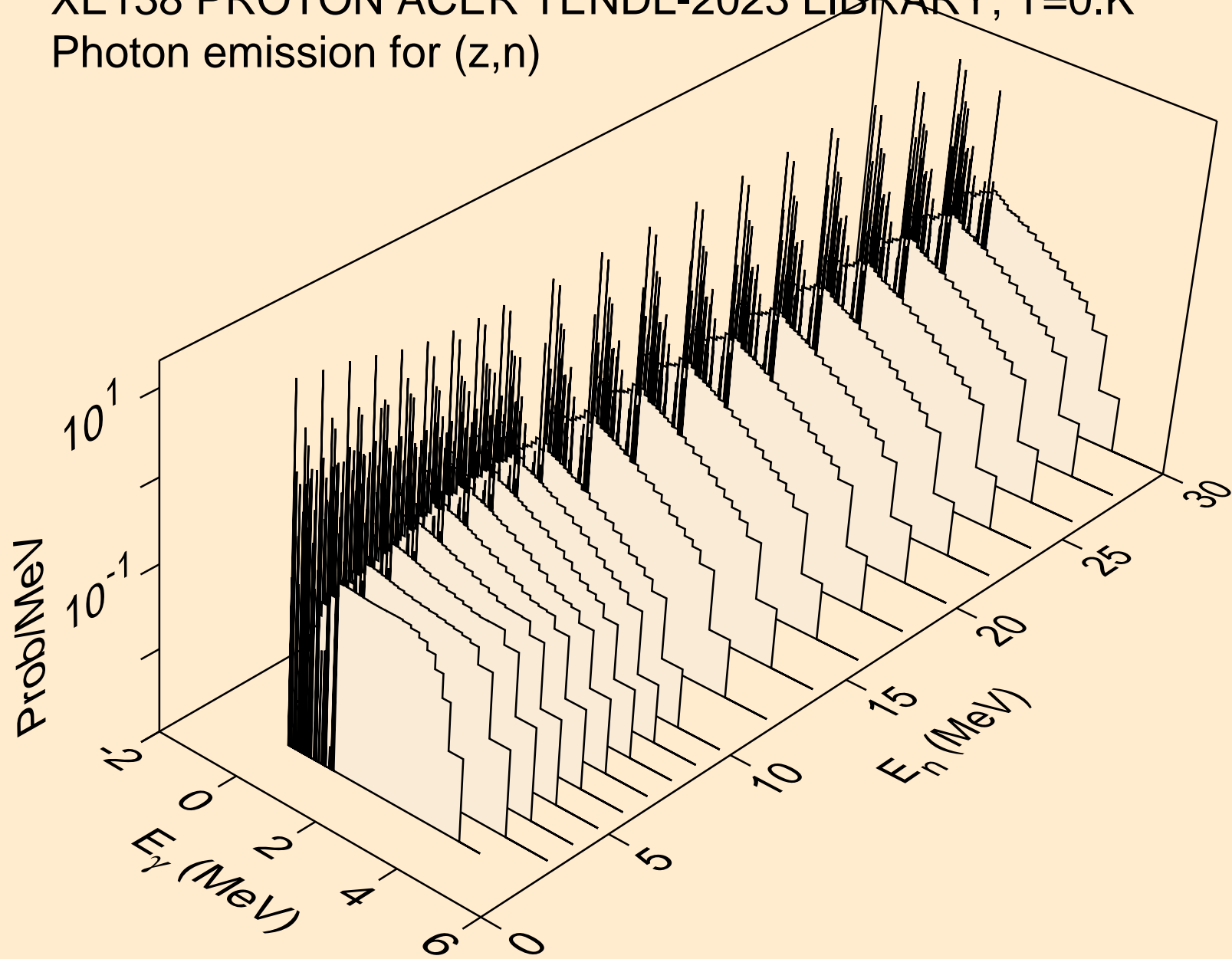
XE138 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Proton emission for (p,pd)



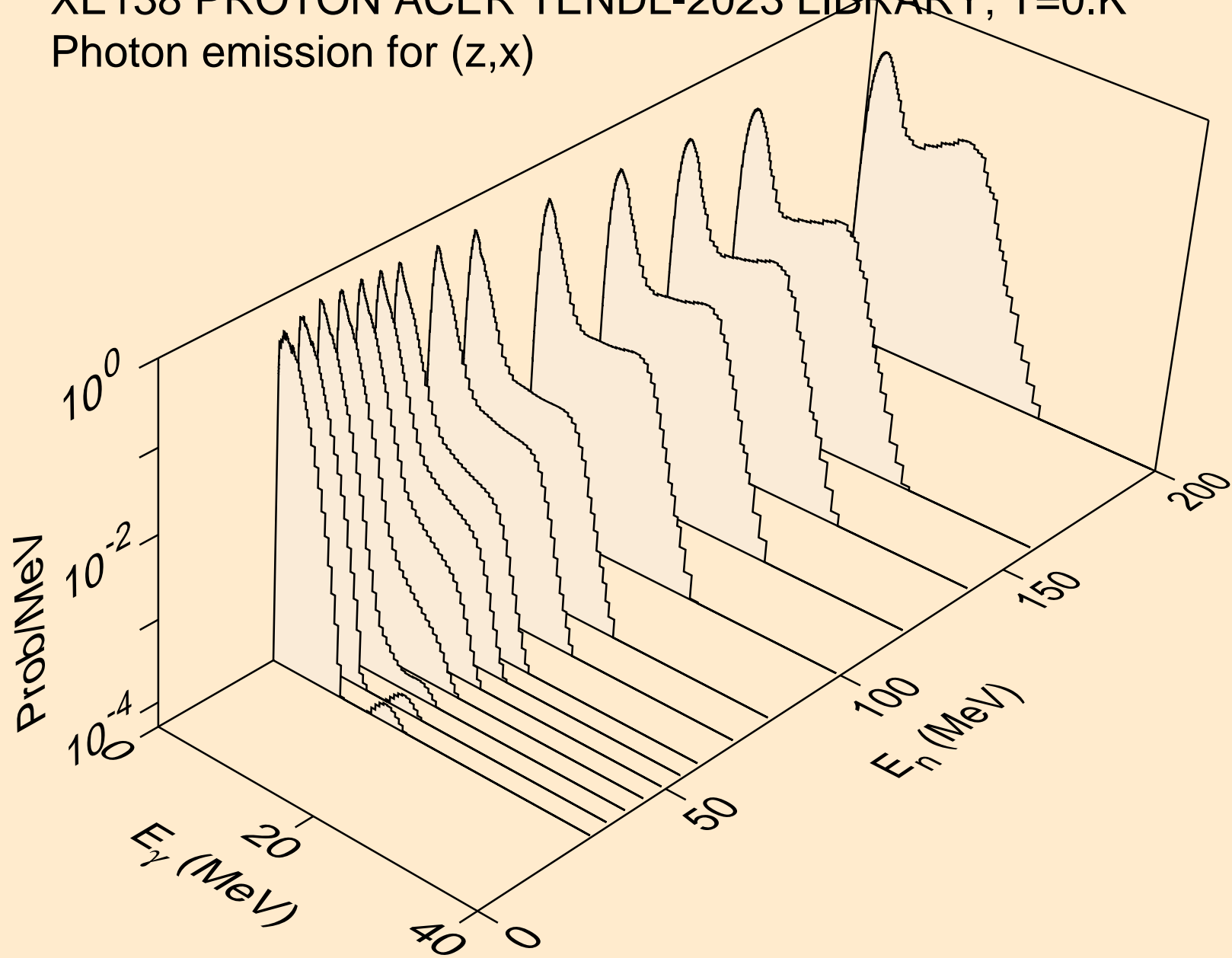
XE138 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Proton emission for (p,pt)



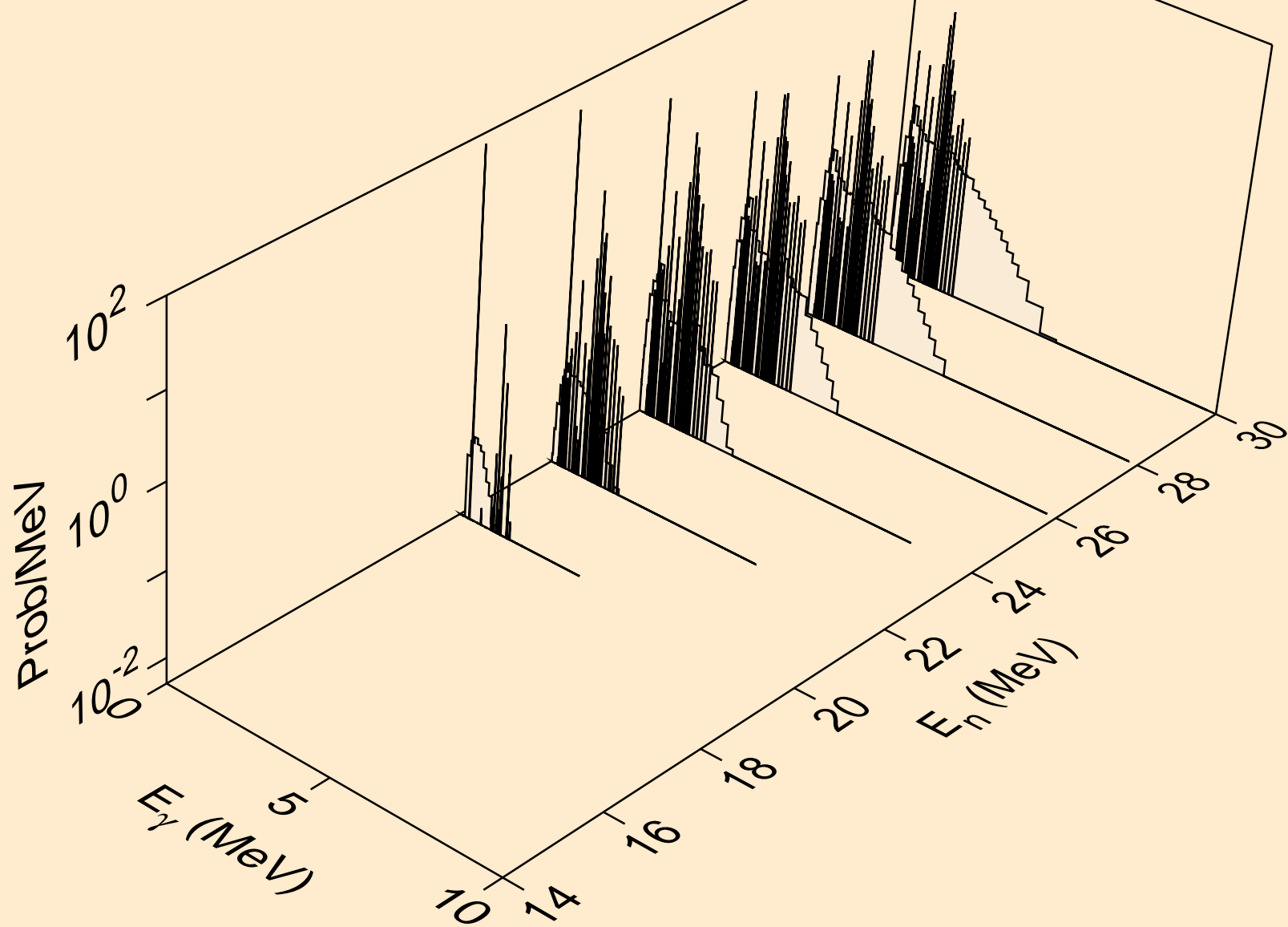
XE138 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (z,n)



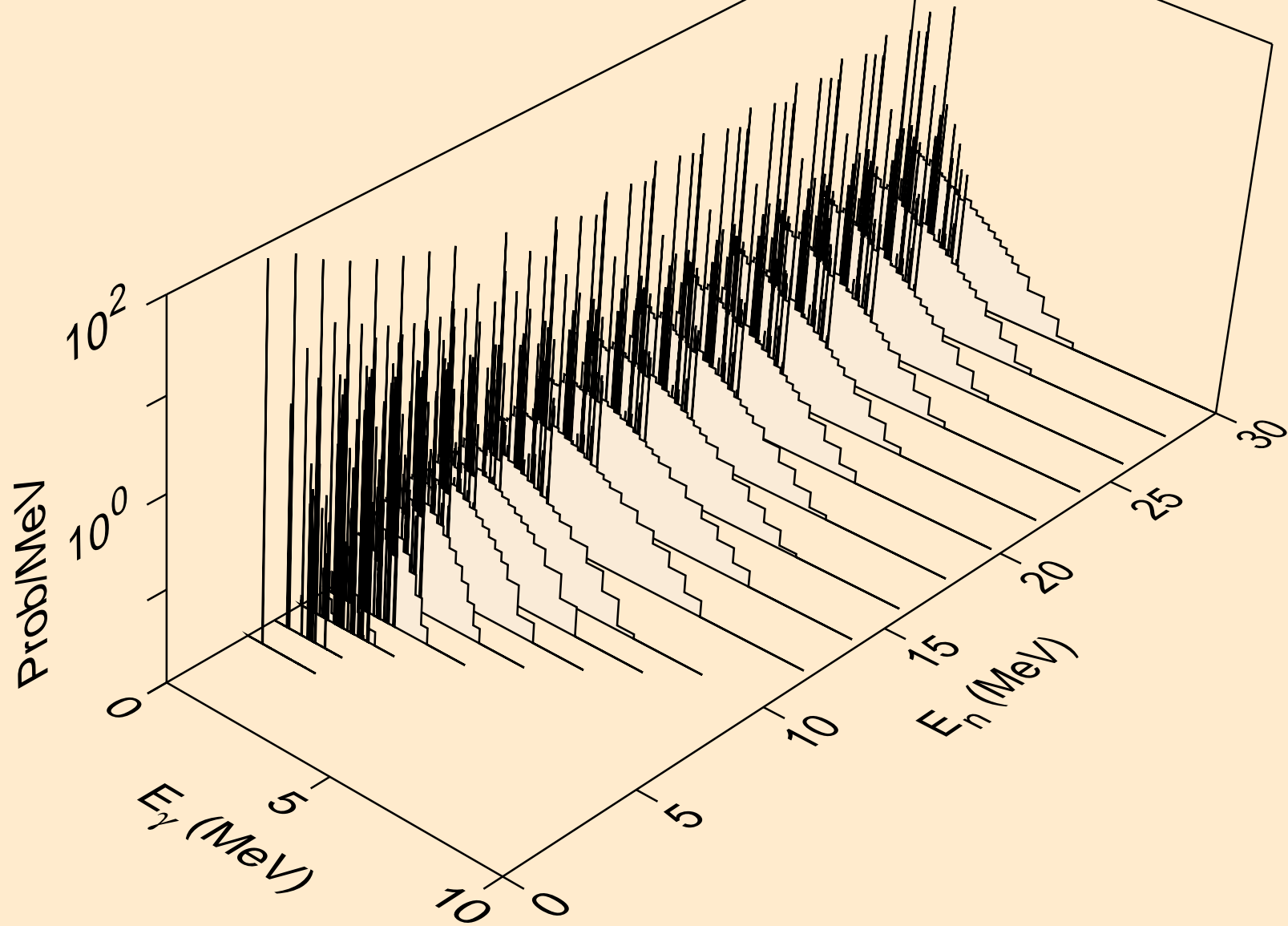
XE138 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (z,x)



XE138 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2nd)

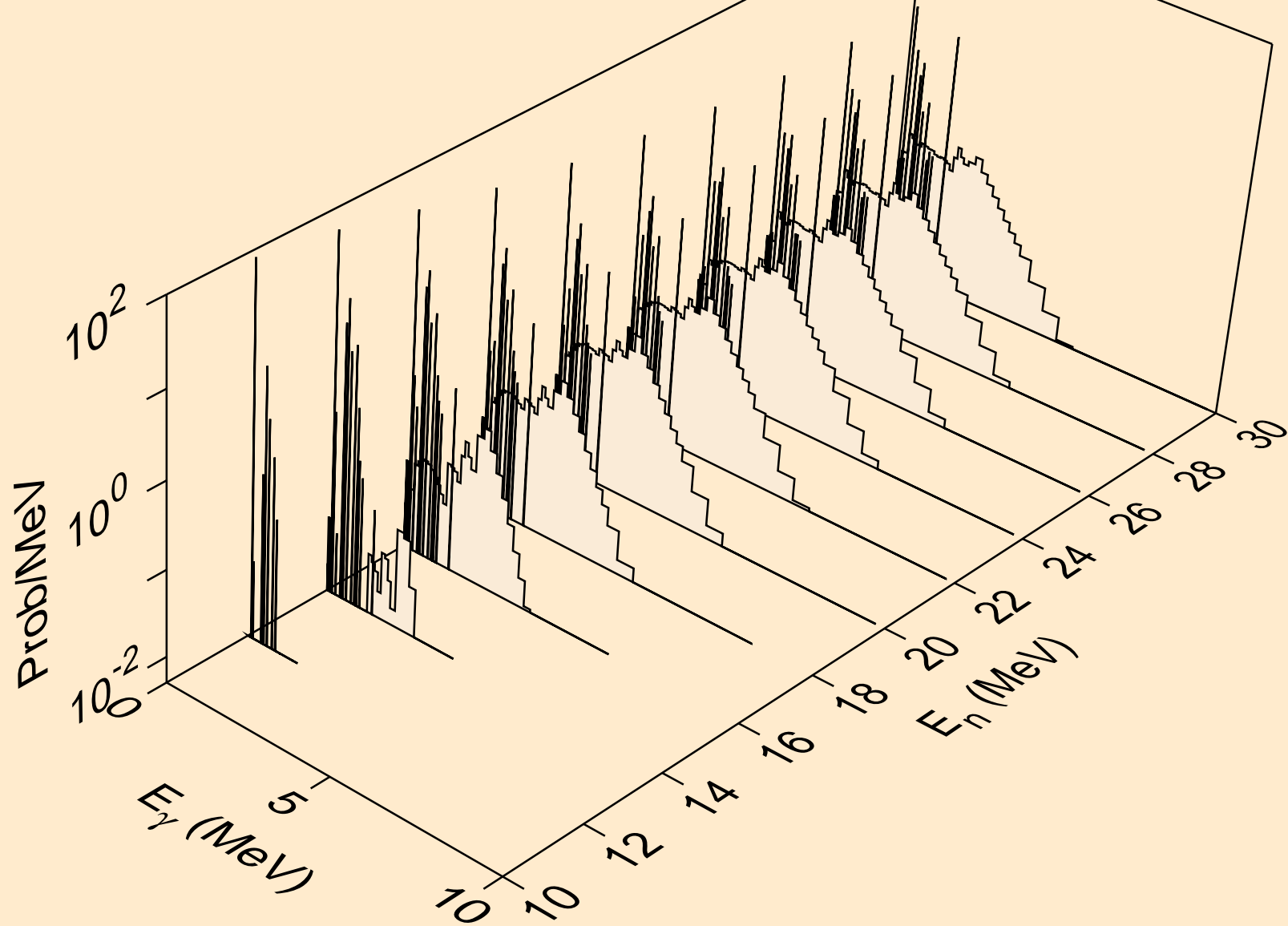


XE138 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2n)

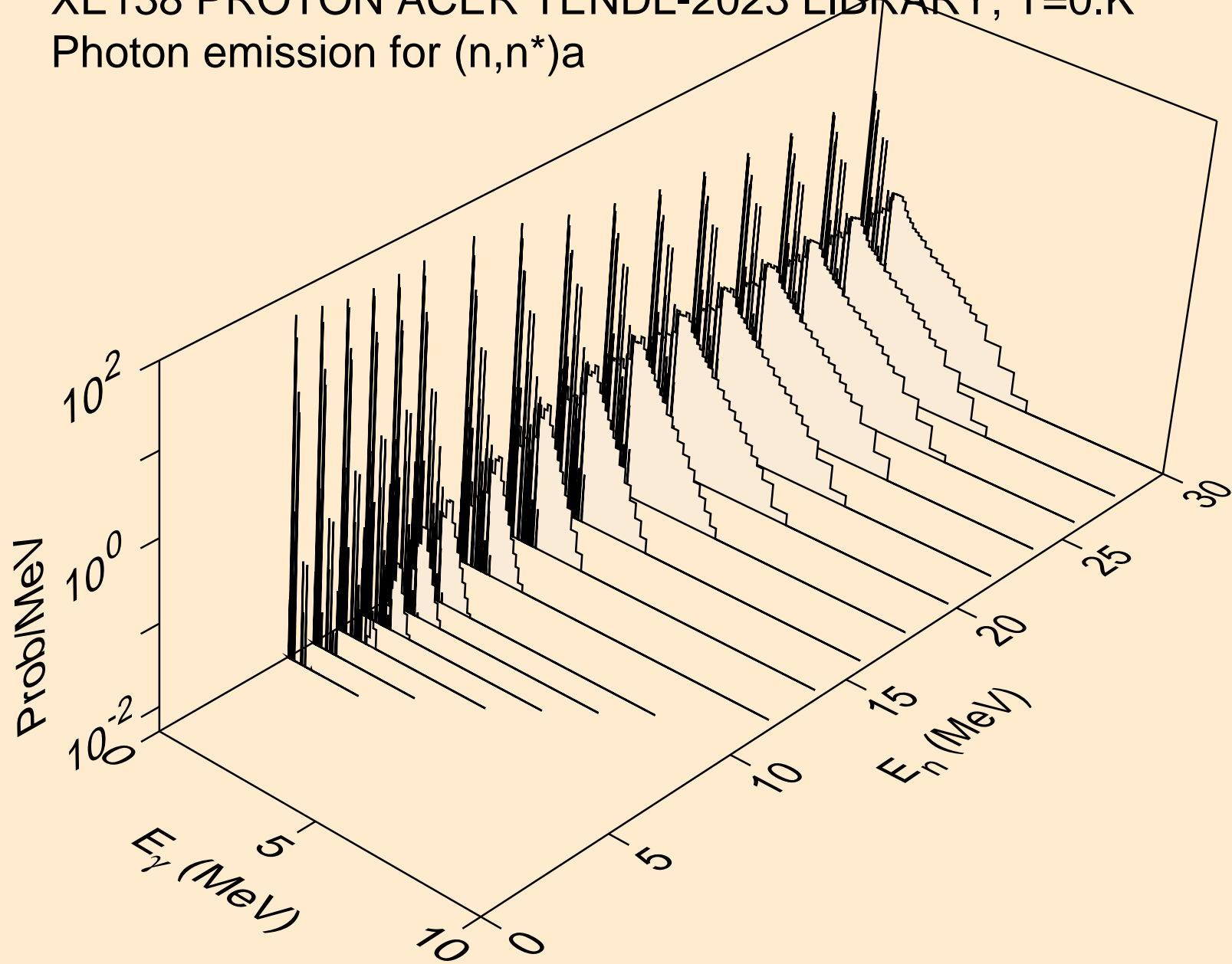




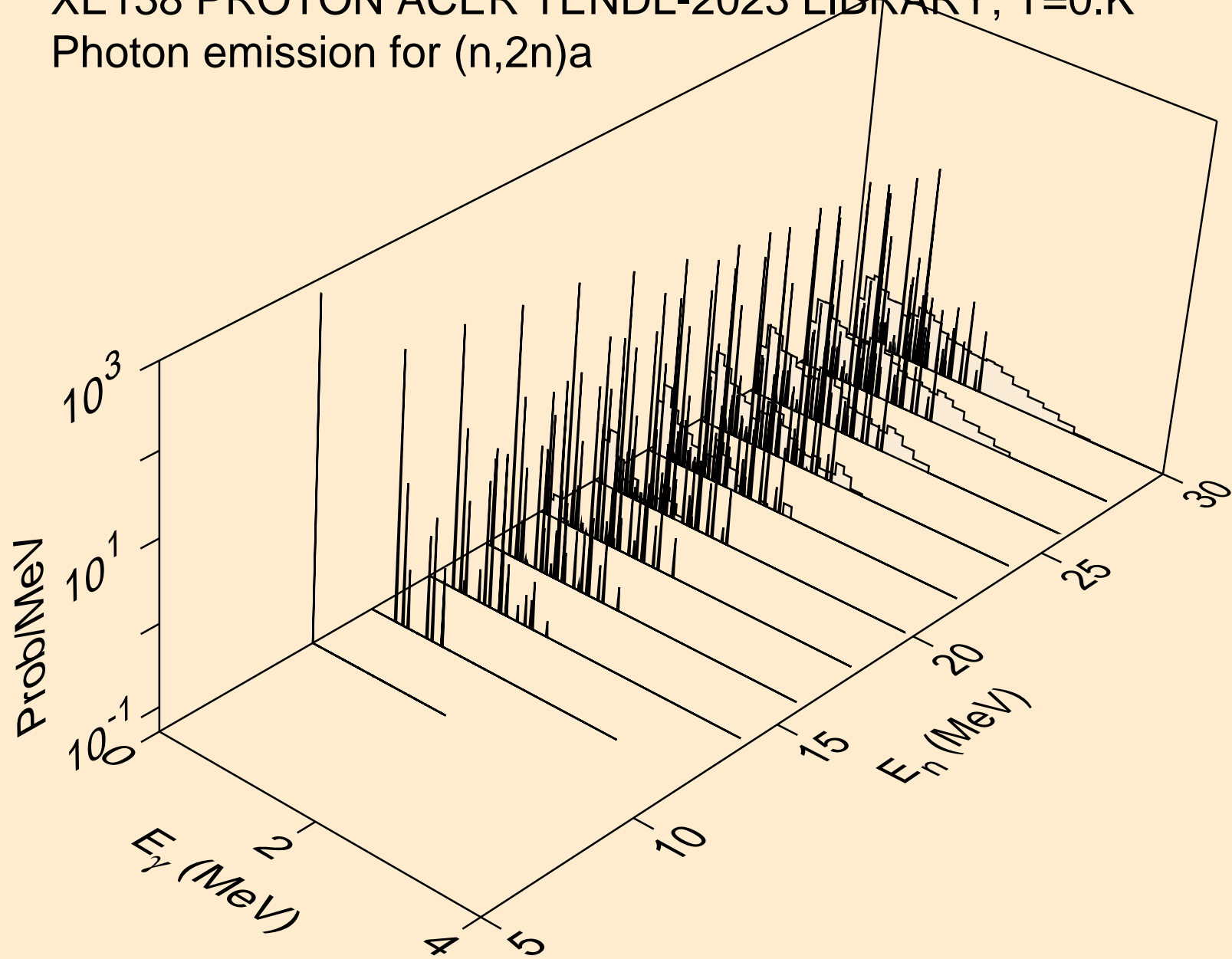
XE138 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,3n)



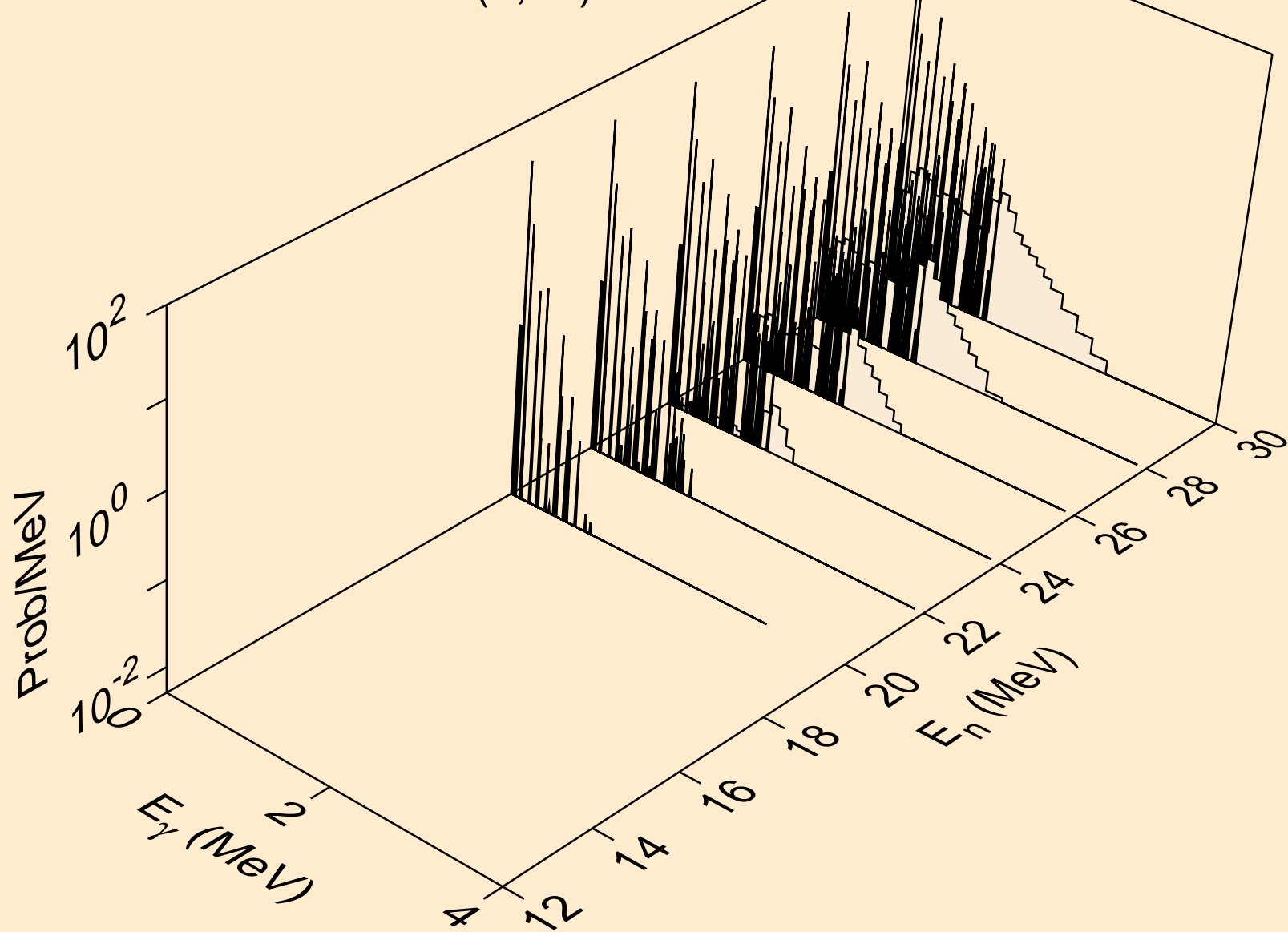
XE138 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)a



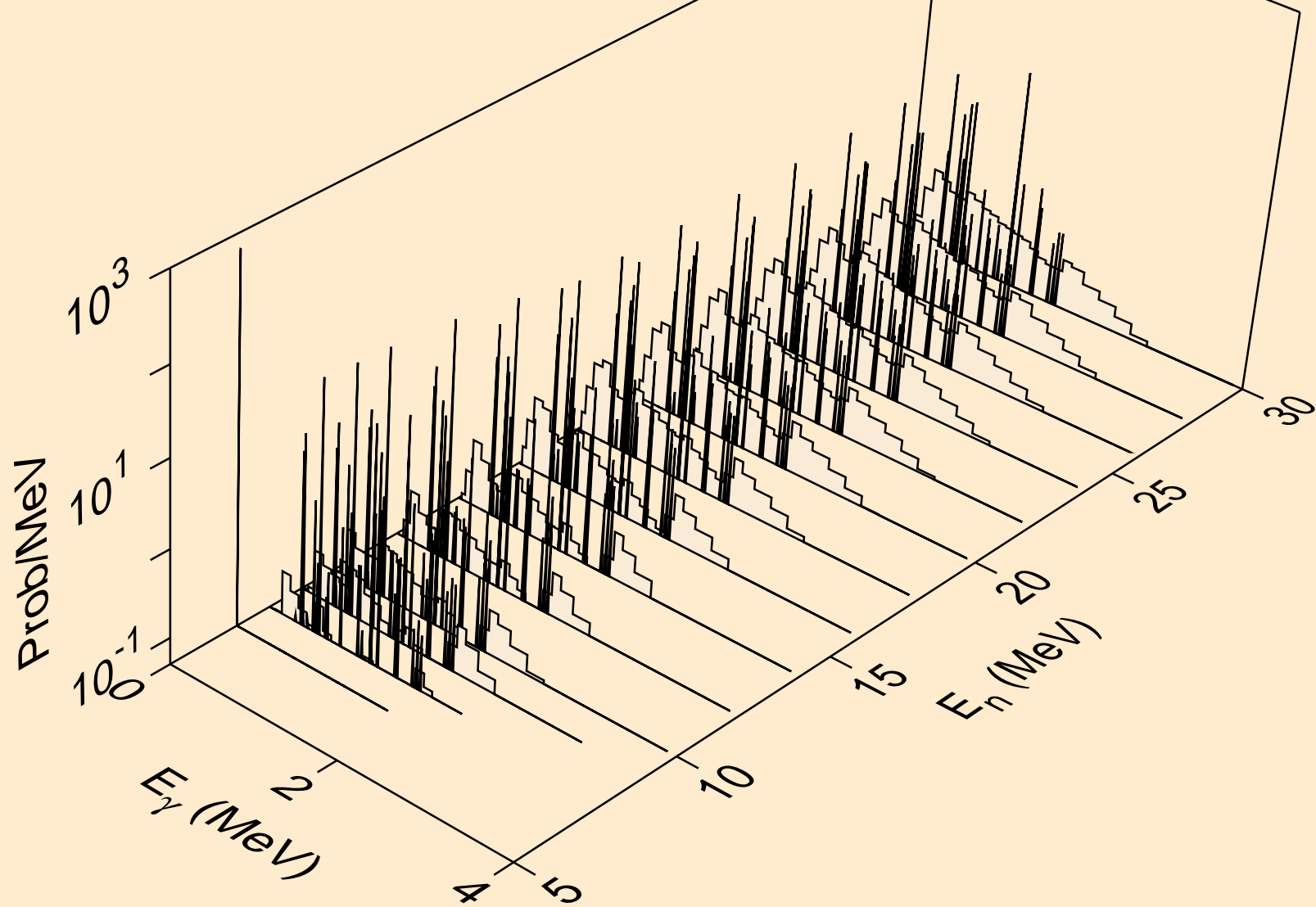
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Photon emission for (n,2n)a



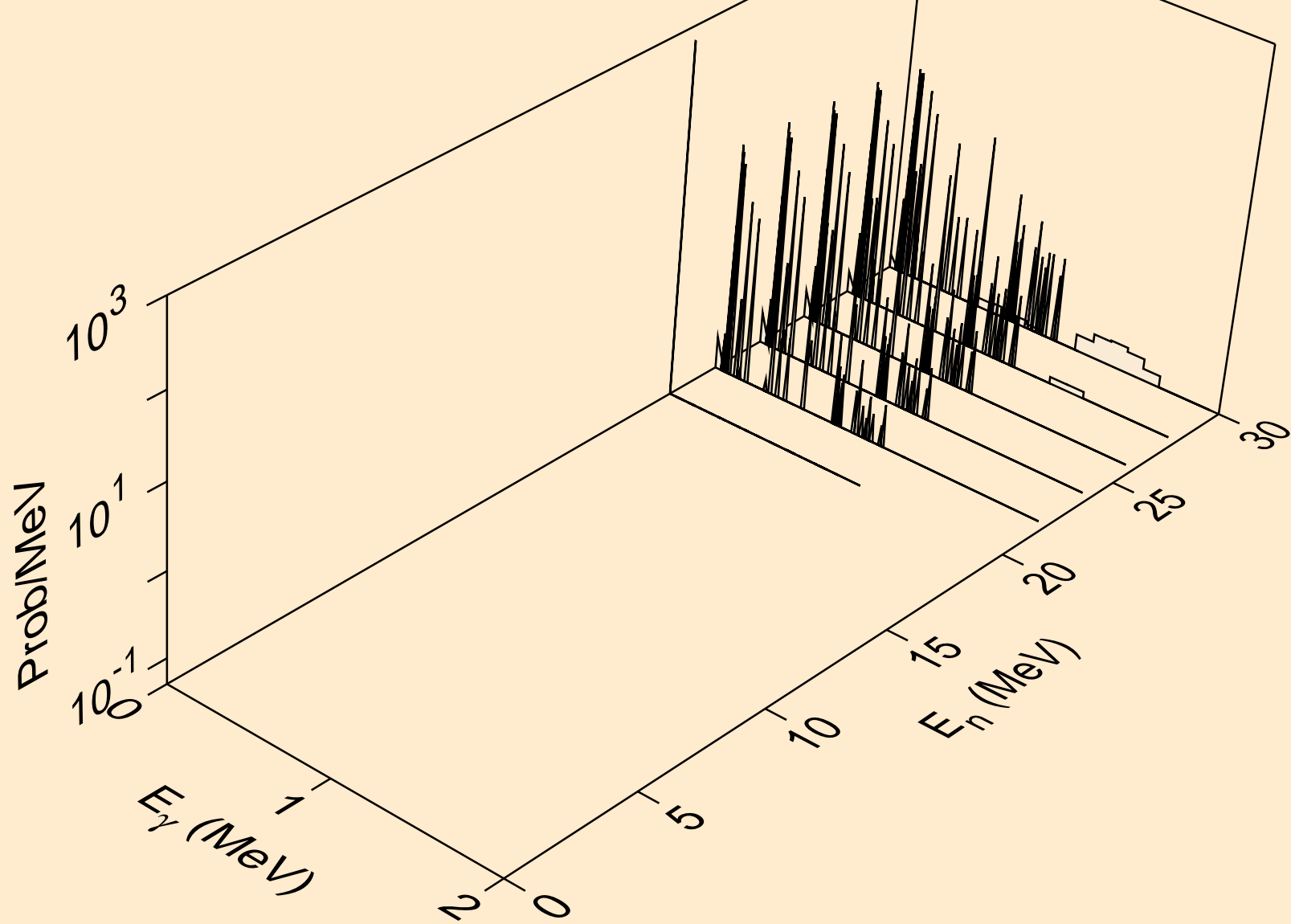
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Photon emission for (n,3n)a



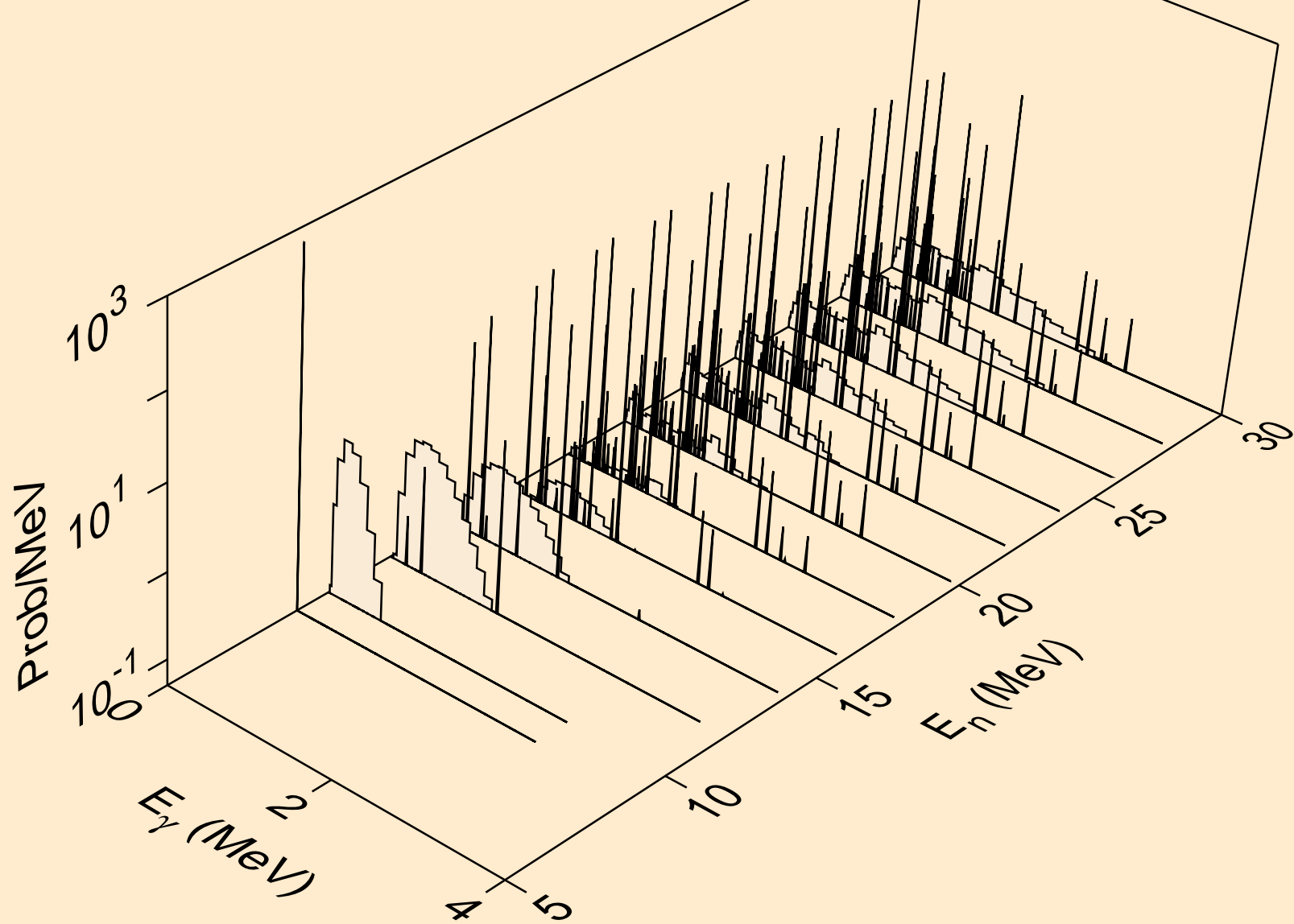
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Photon emission for (n,n\*)p



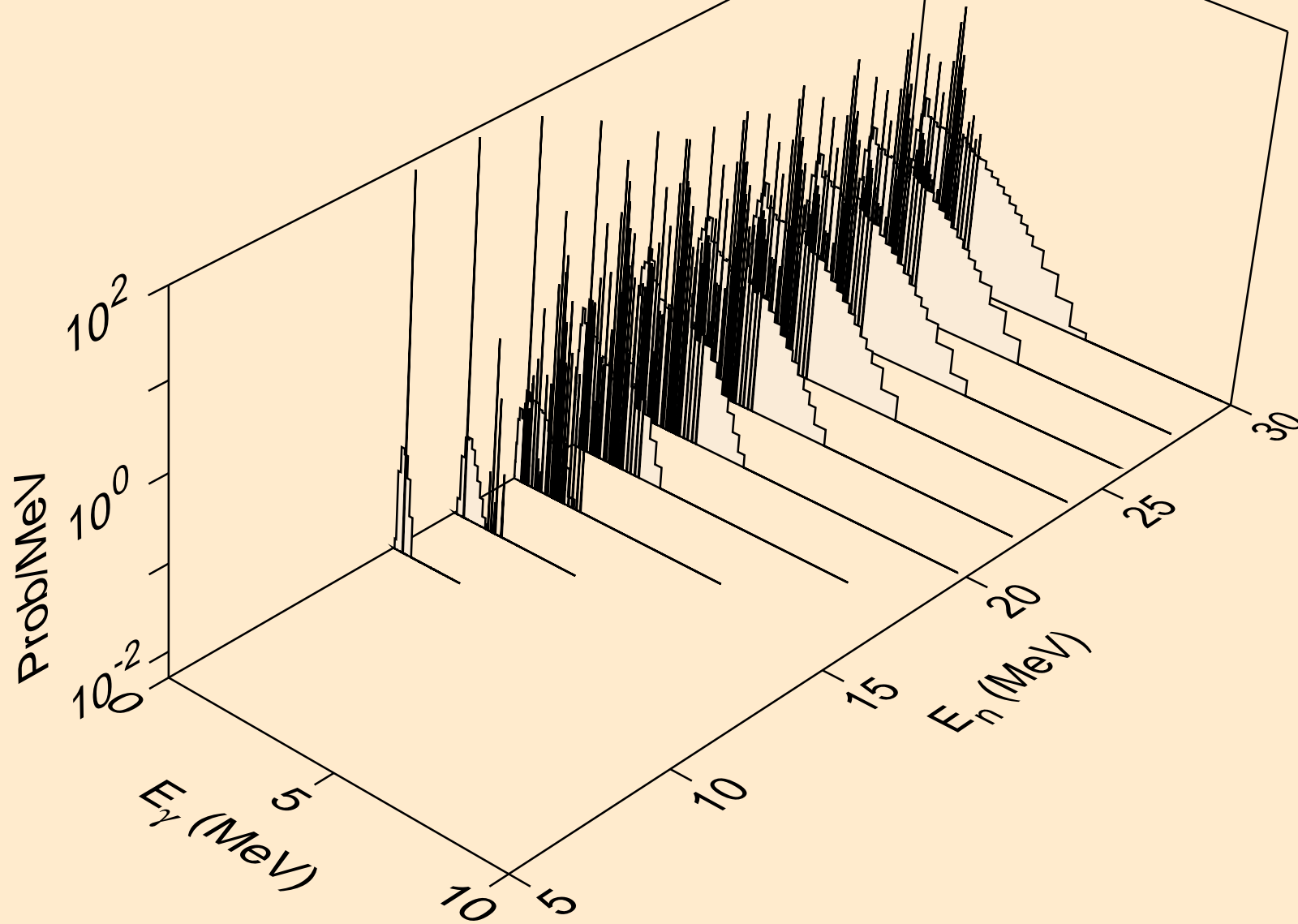
XE138 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)2a



XE138 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)d

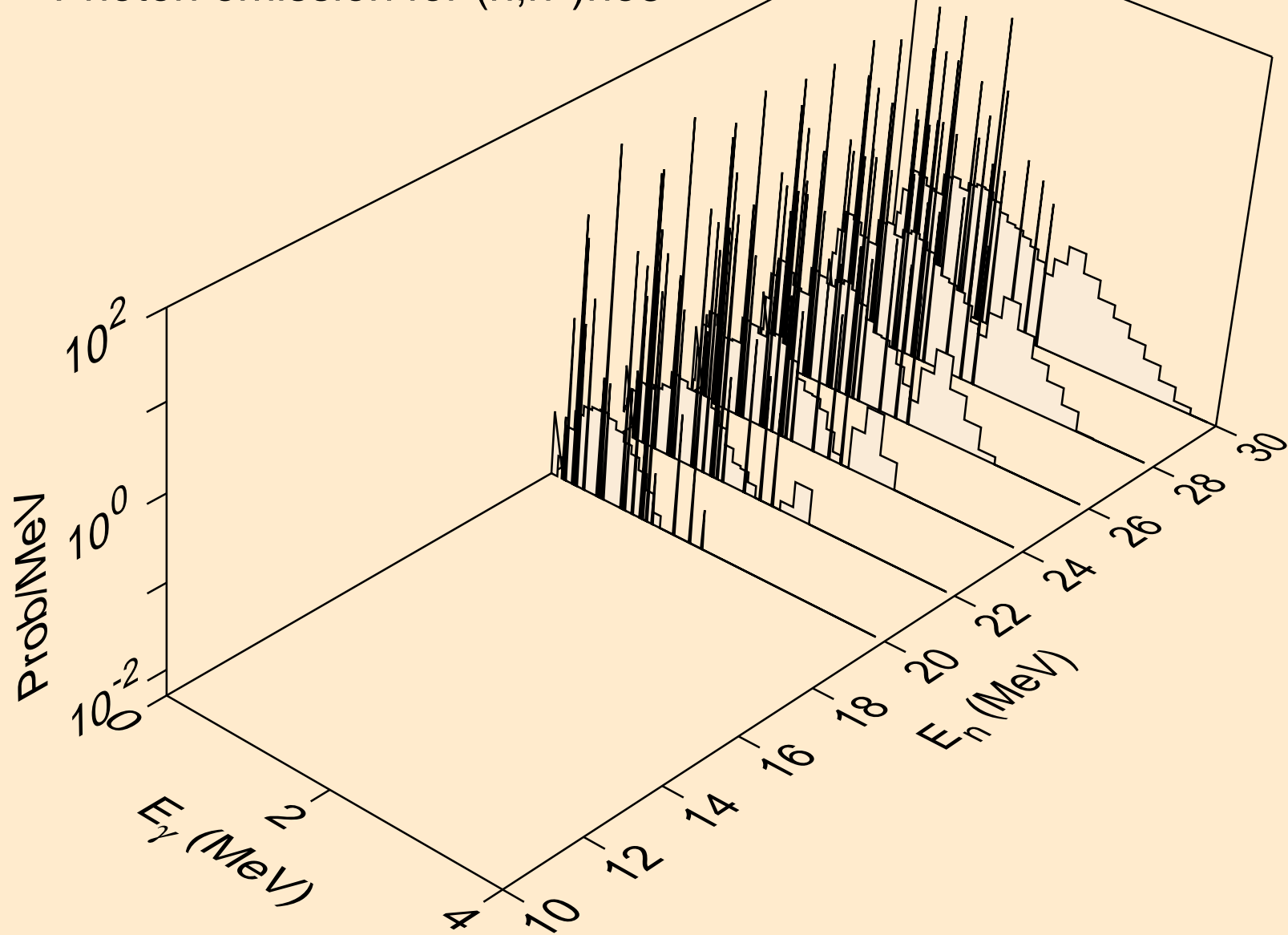


XE138 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)t

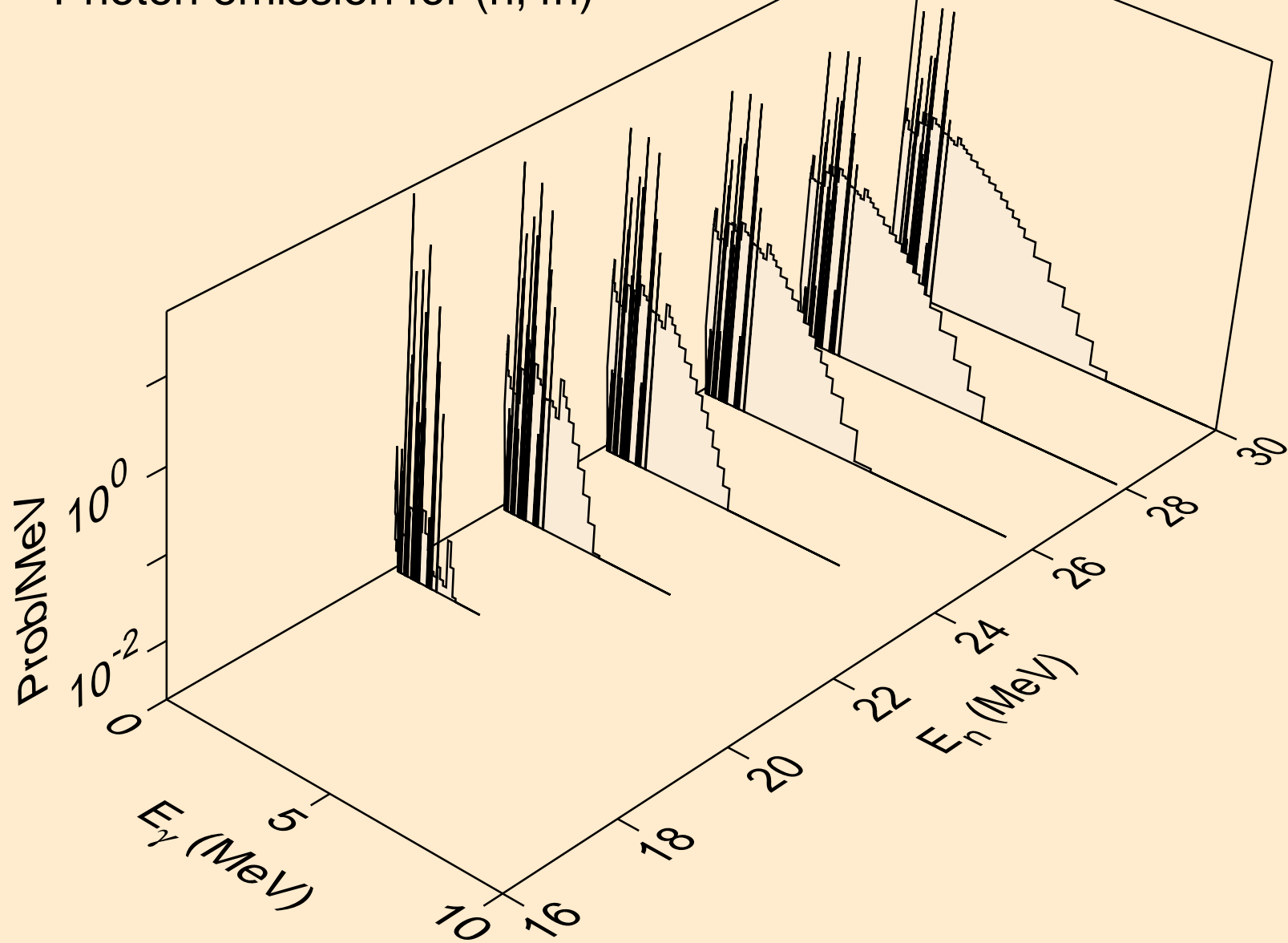




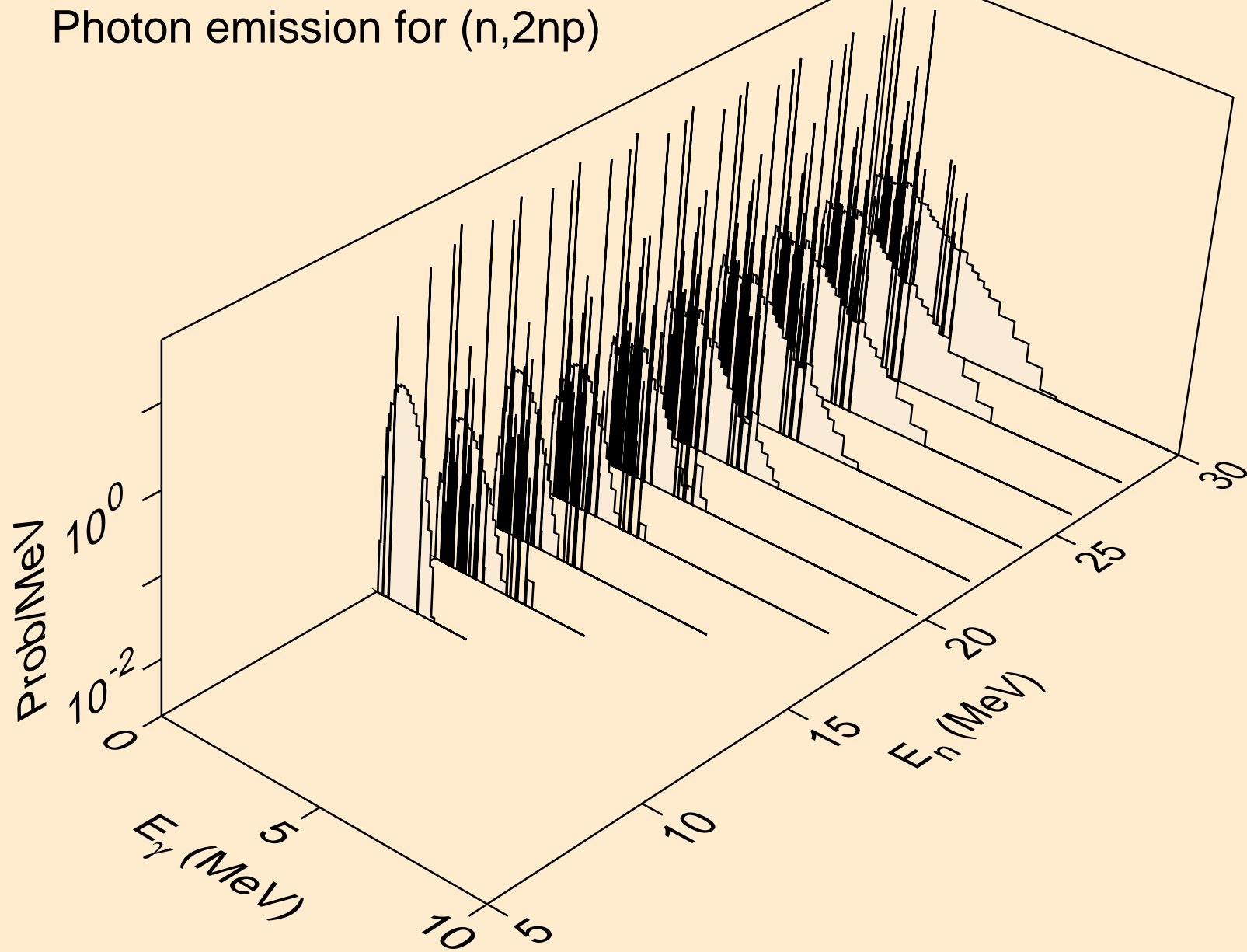
XE138 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)he3



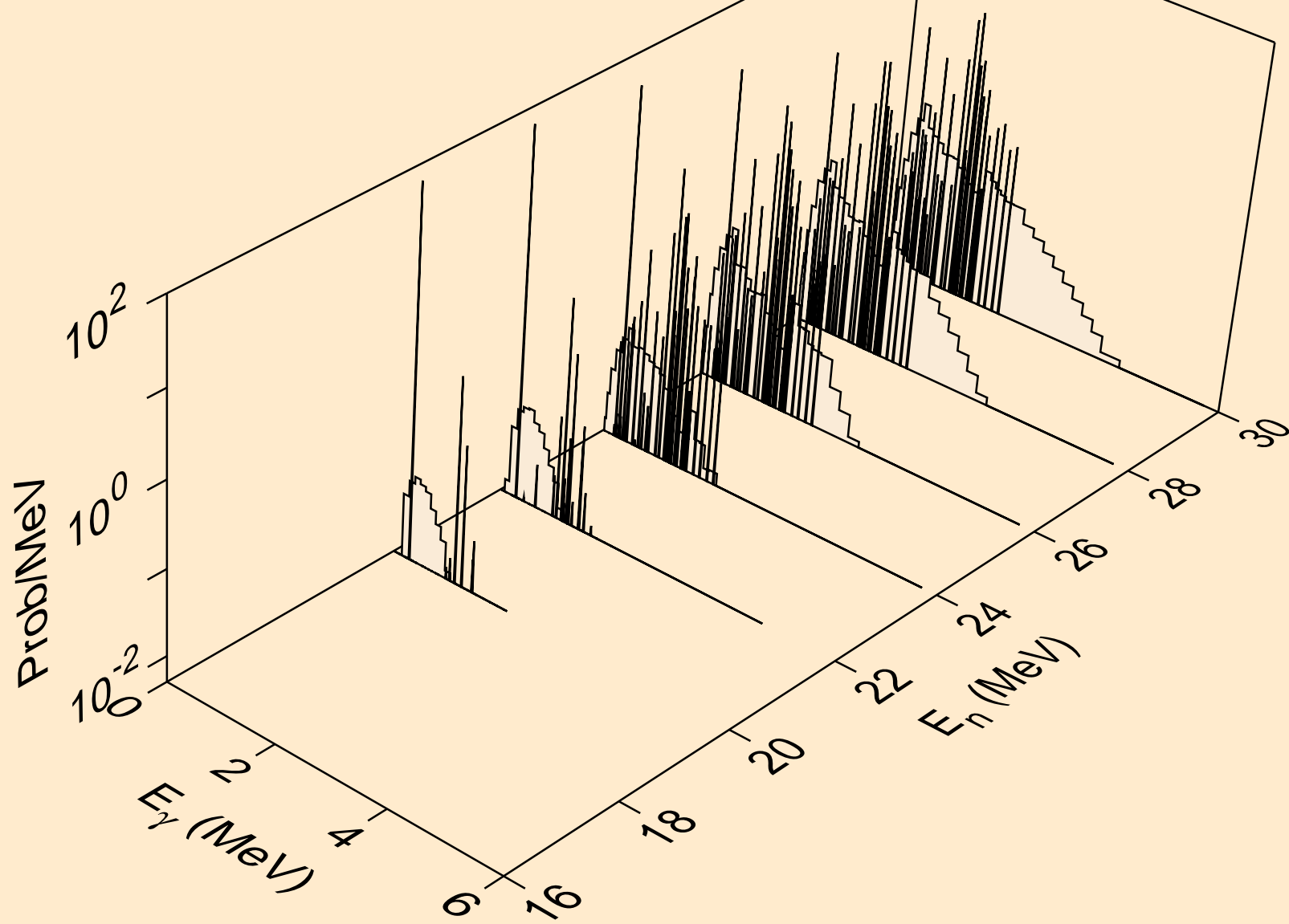
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Photon emission for (n,4n)



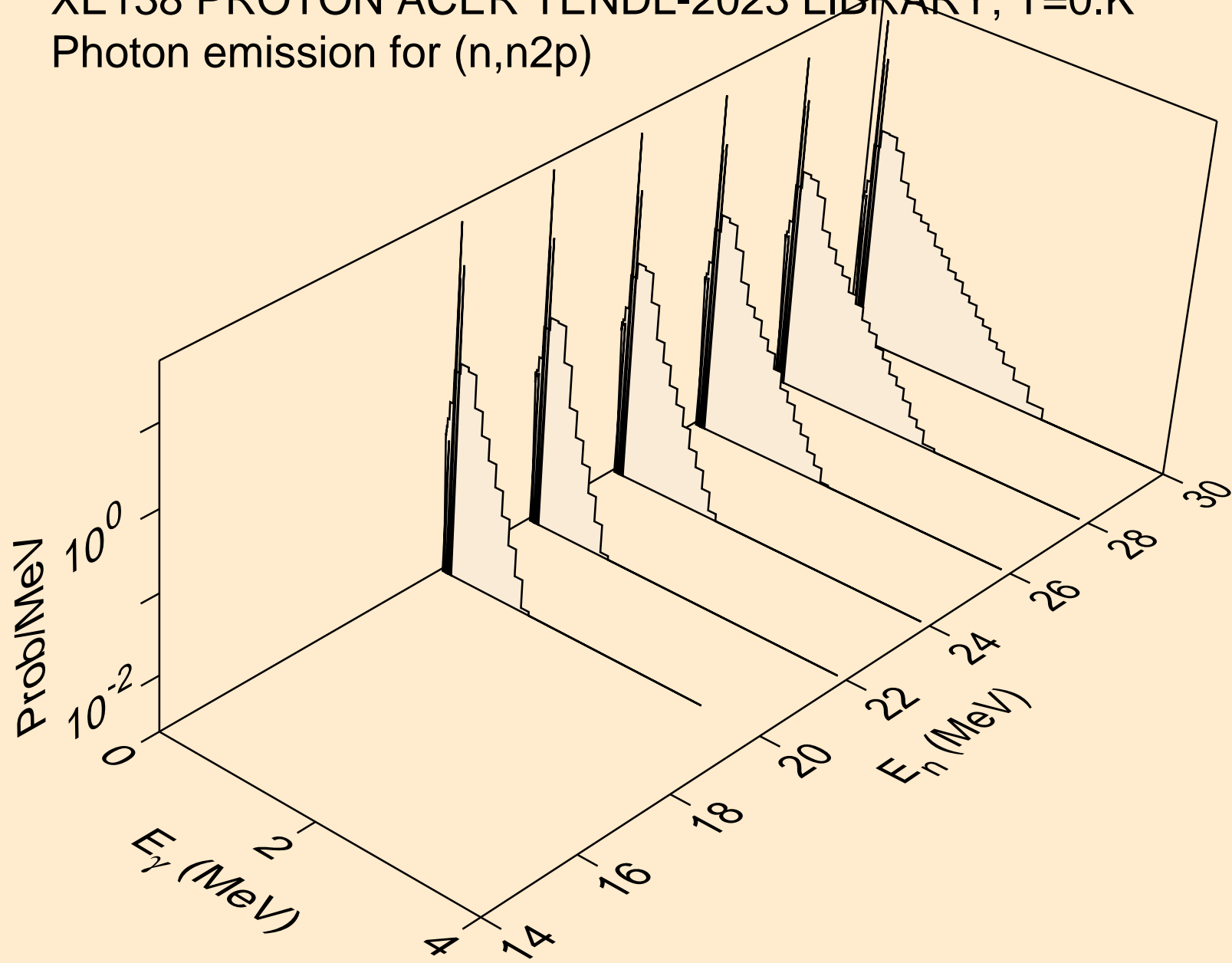
XE138 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2np)



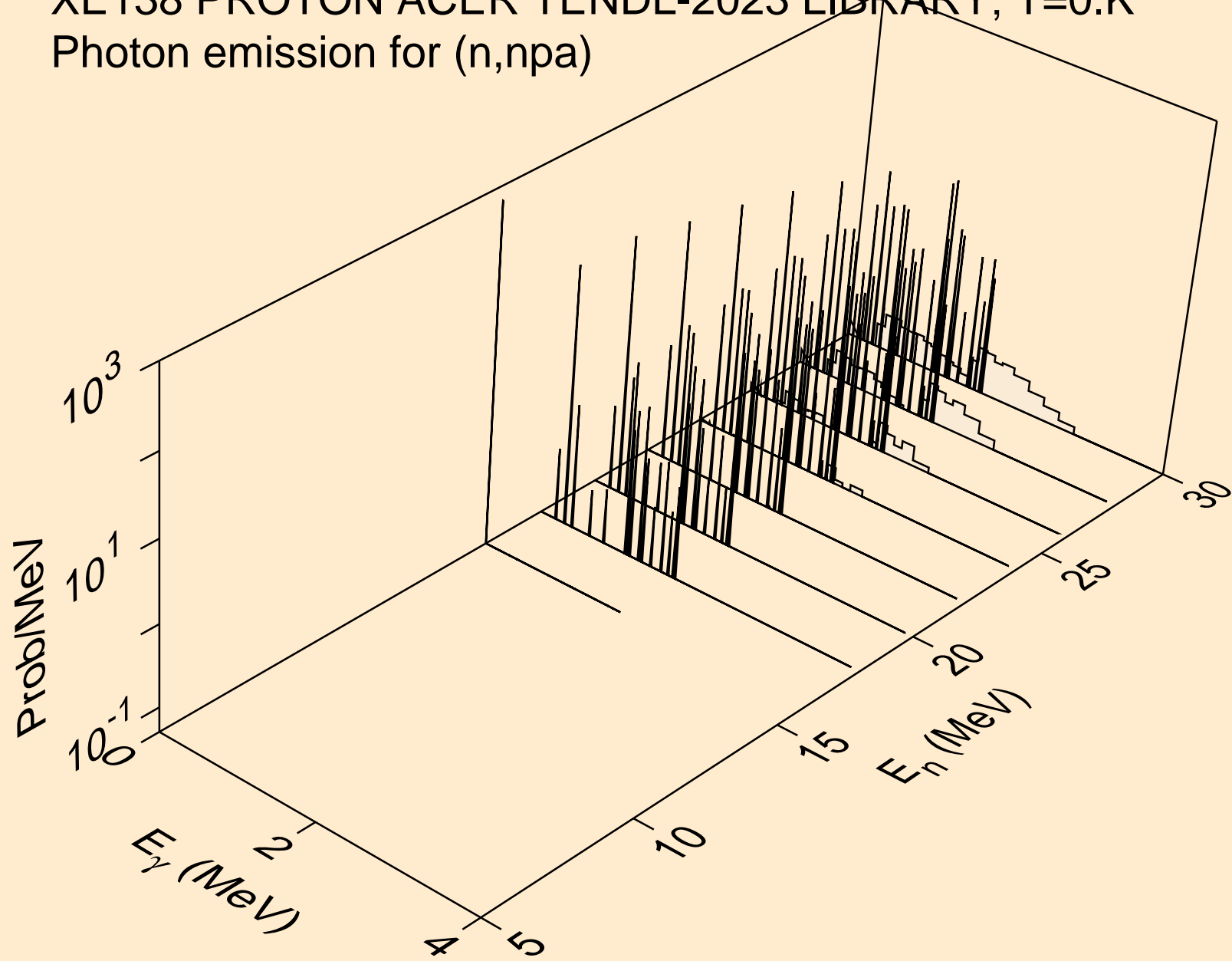
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Photon emission for (n,3np)



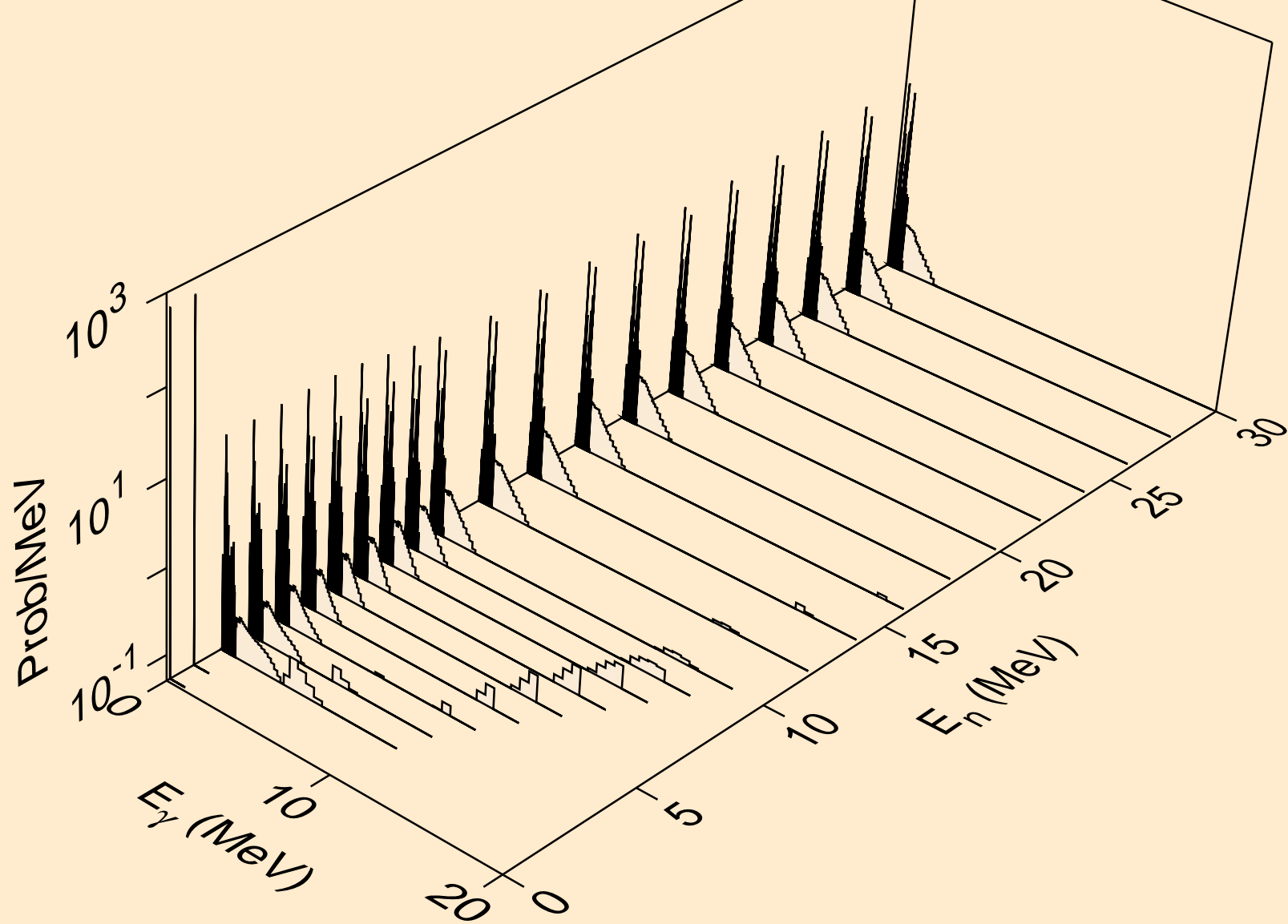
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Photon emission for (n,n2p)



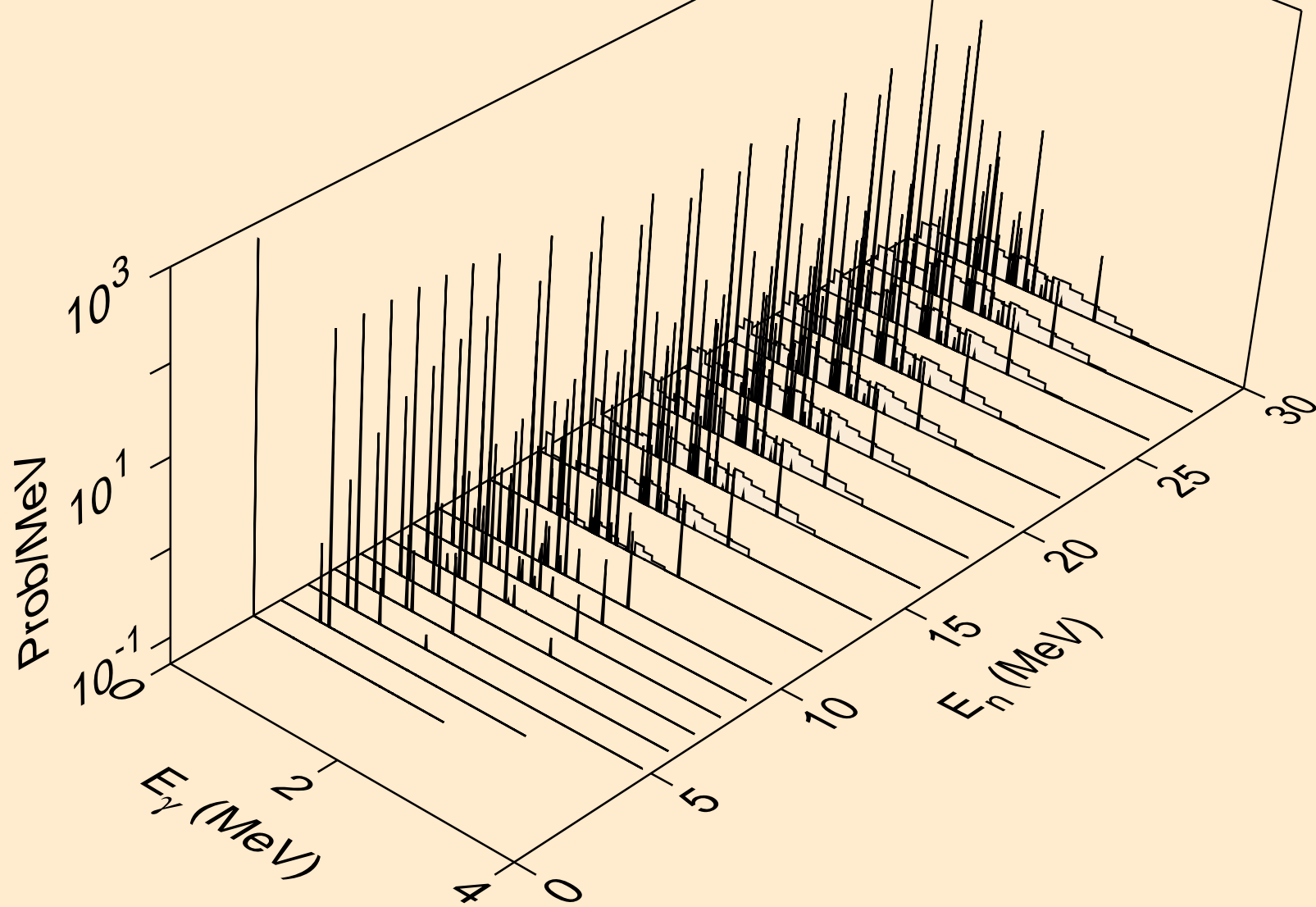
XE138 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,npa)



XE138 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,gma)

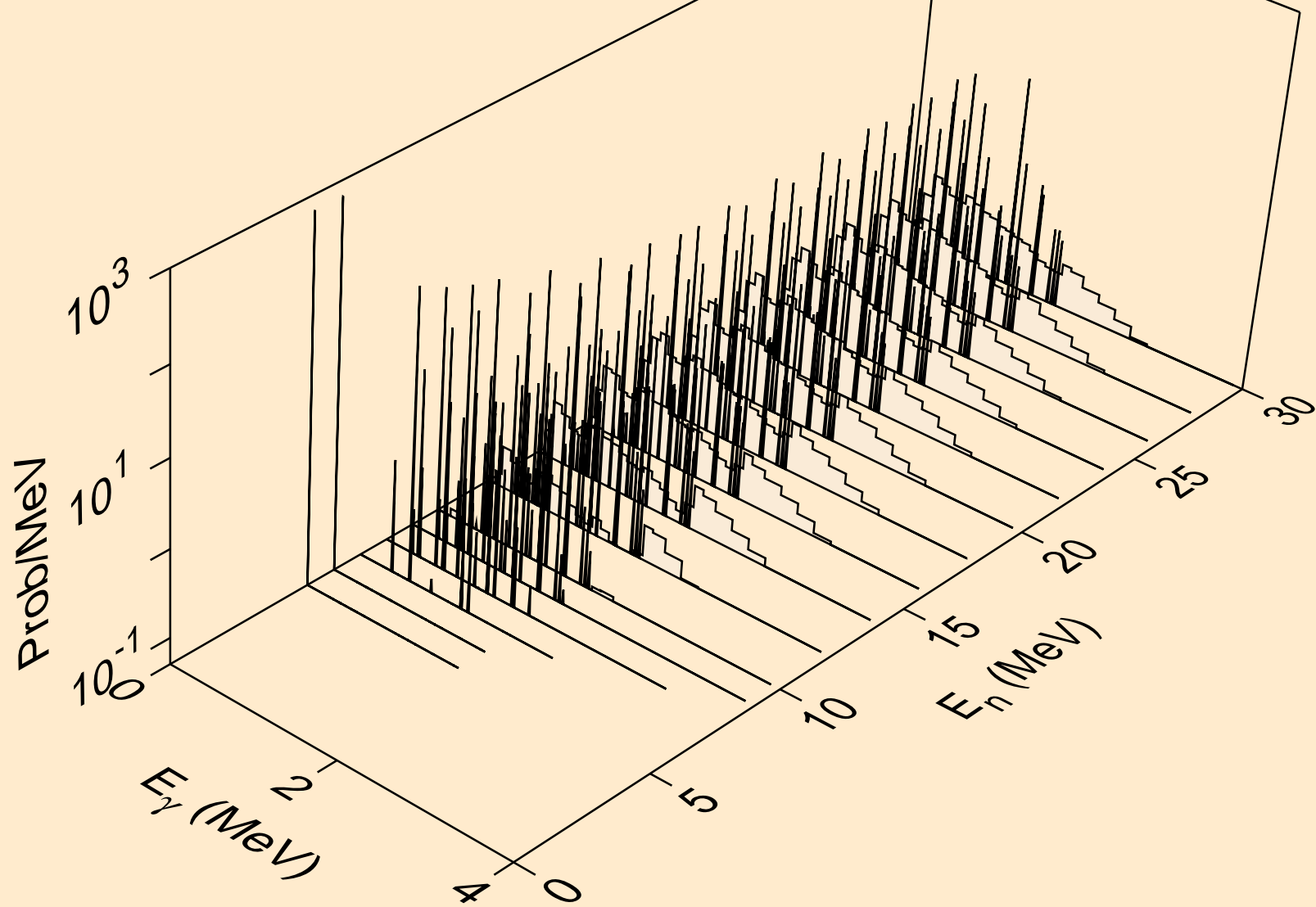


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Photon emission for inelastic

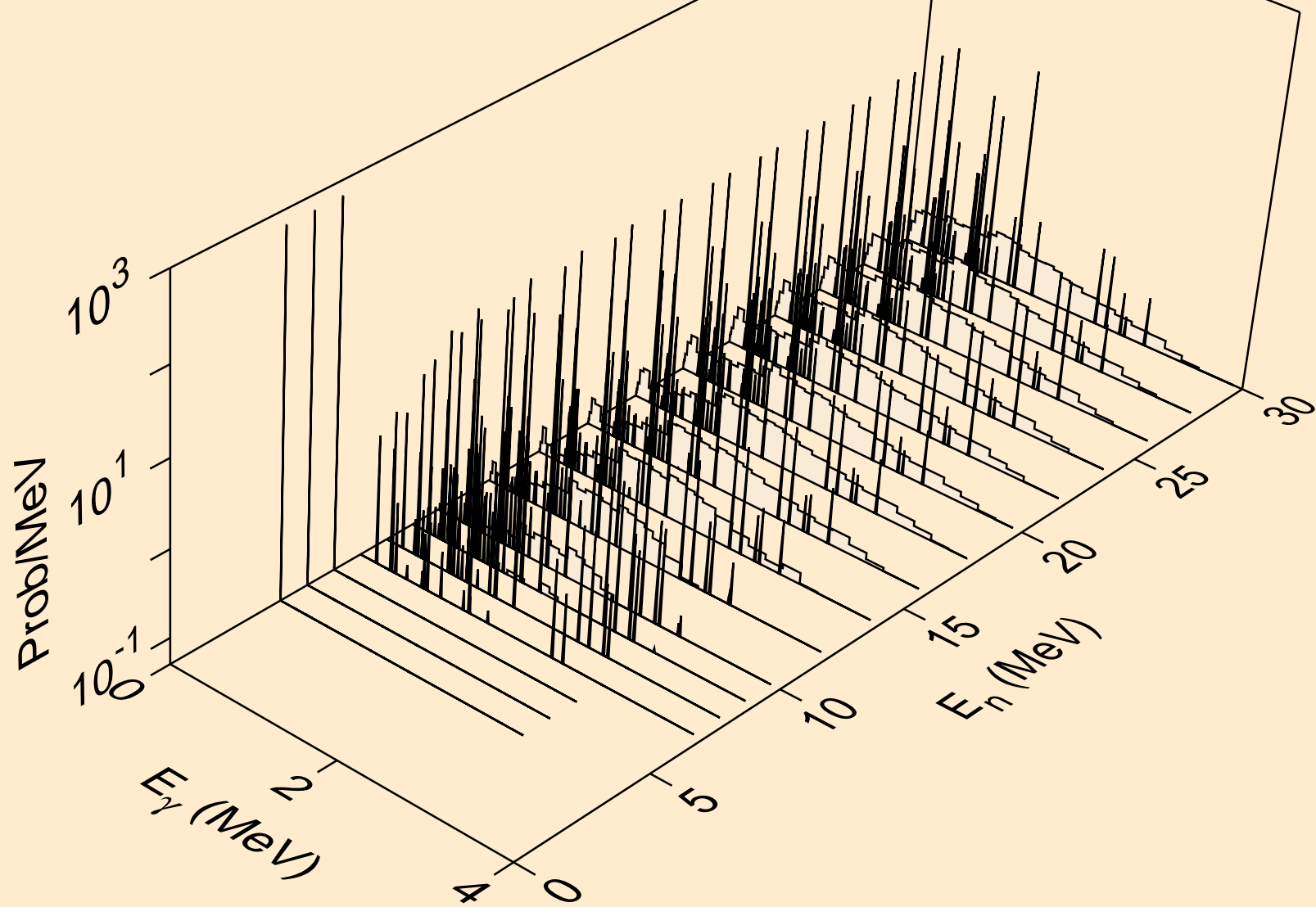




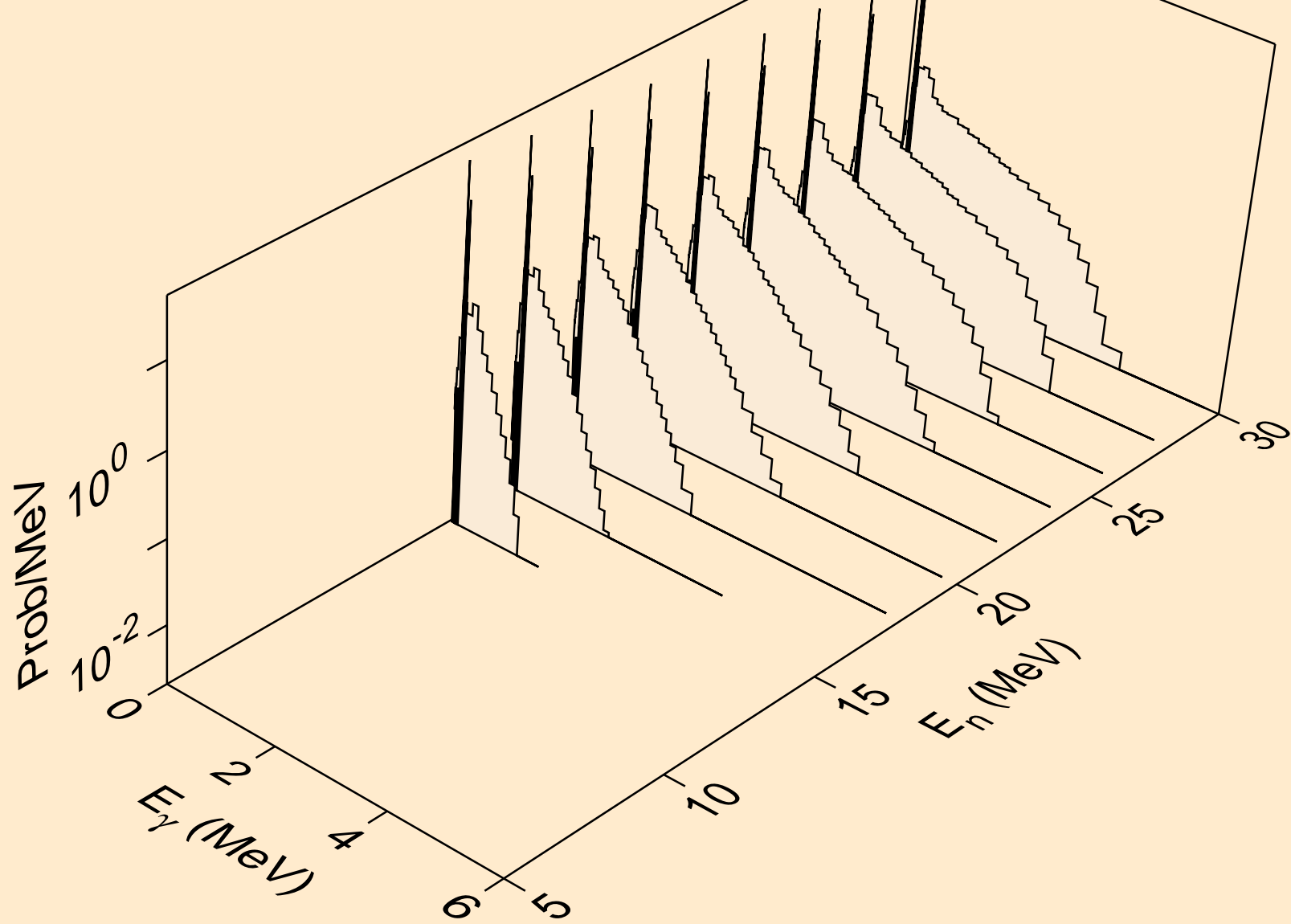
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Photon emission for (n,d)



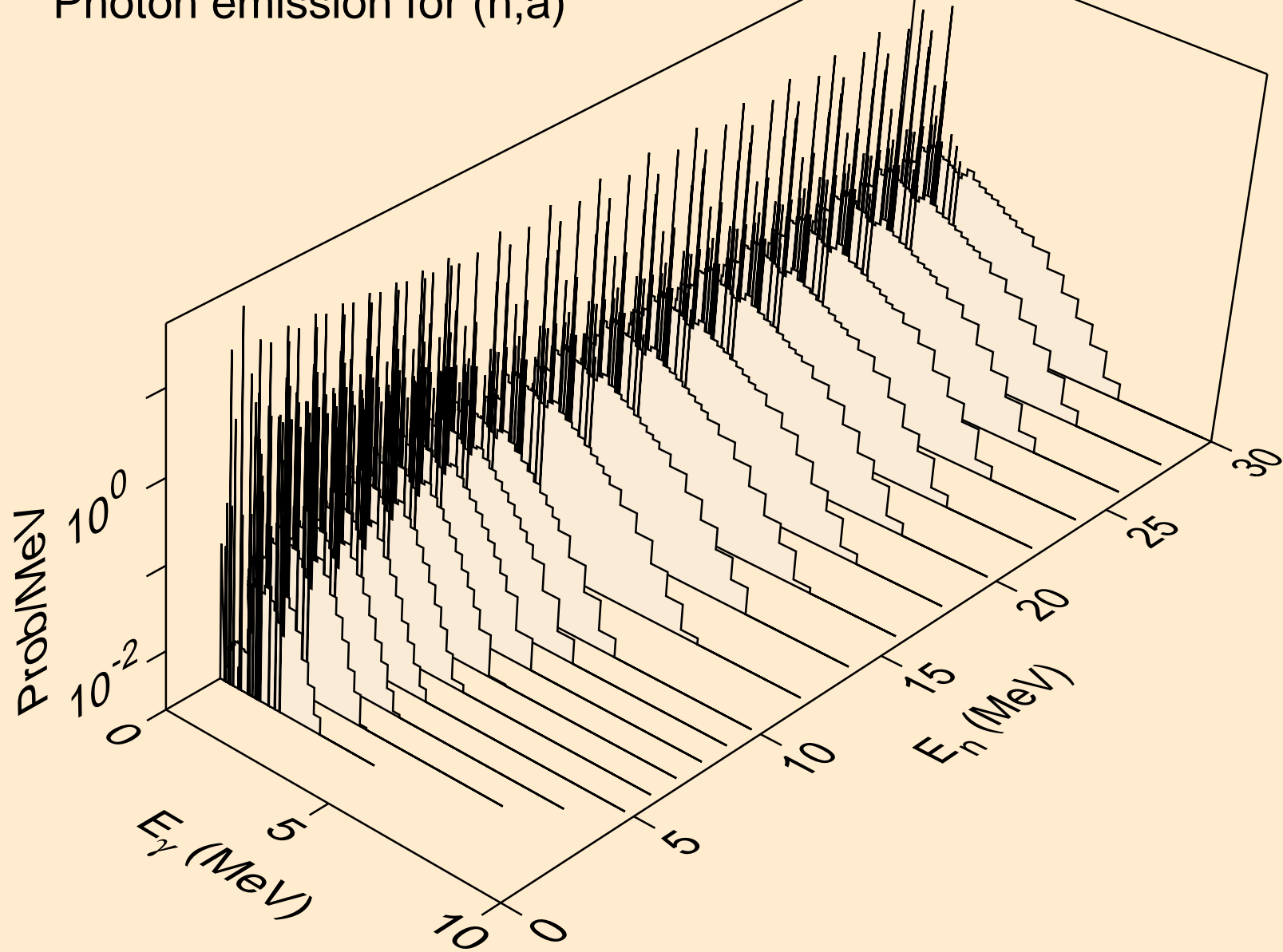
XE138 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,t)



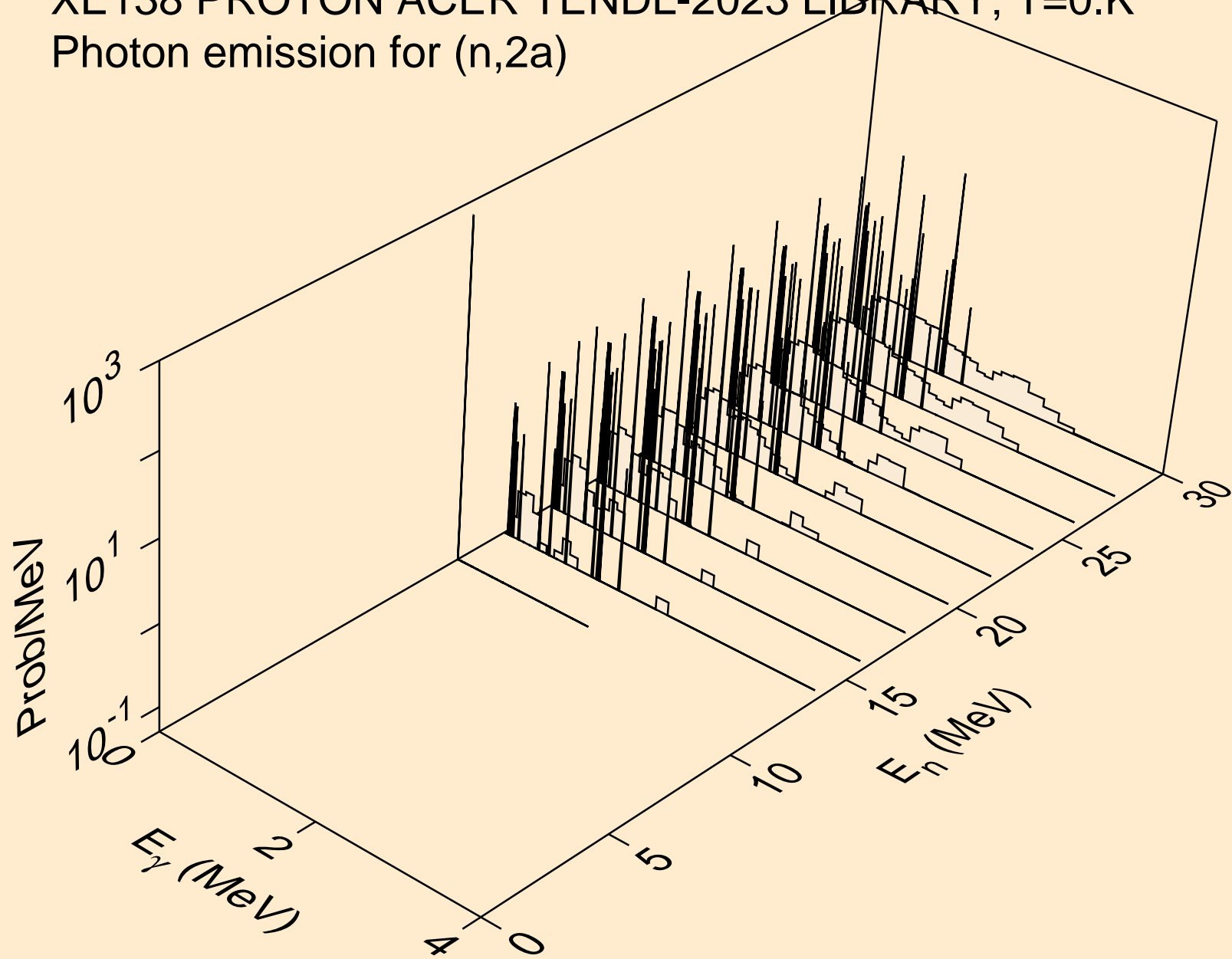
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Photon emission for (n,he3)



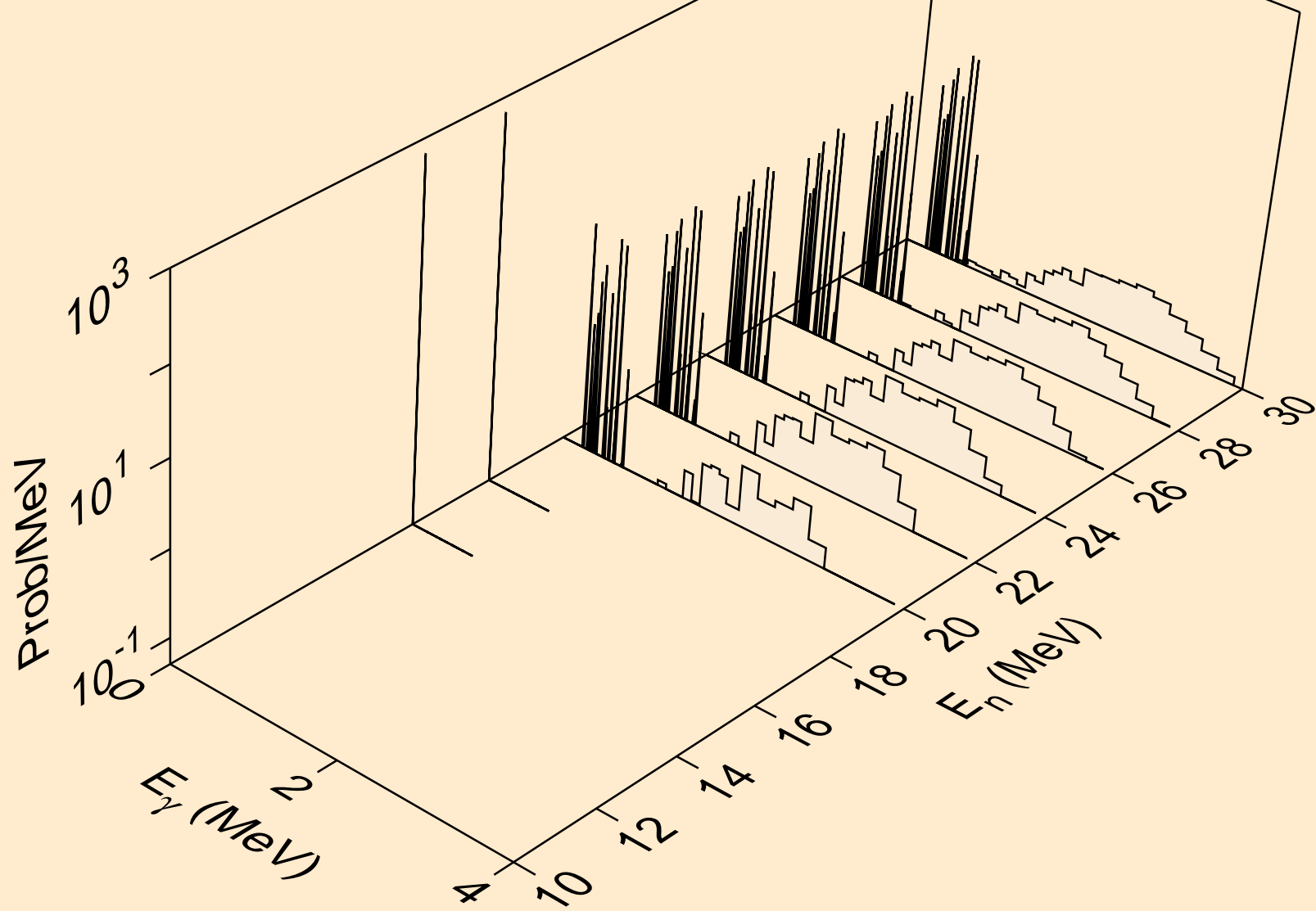
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Photon emission for (n,a)



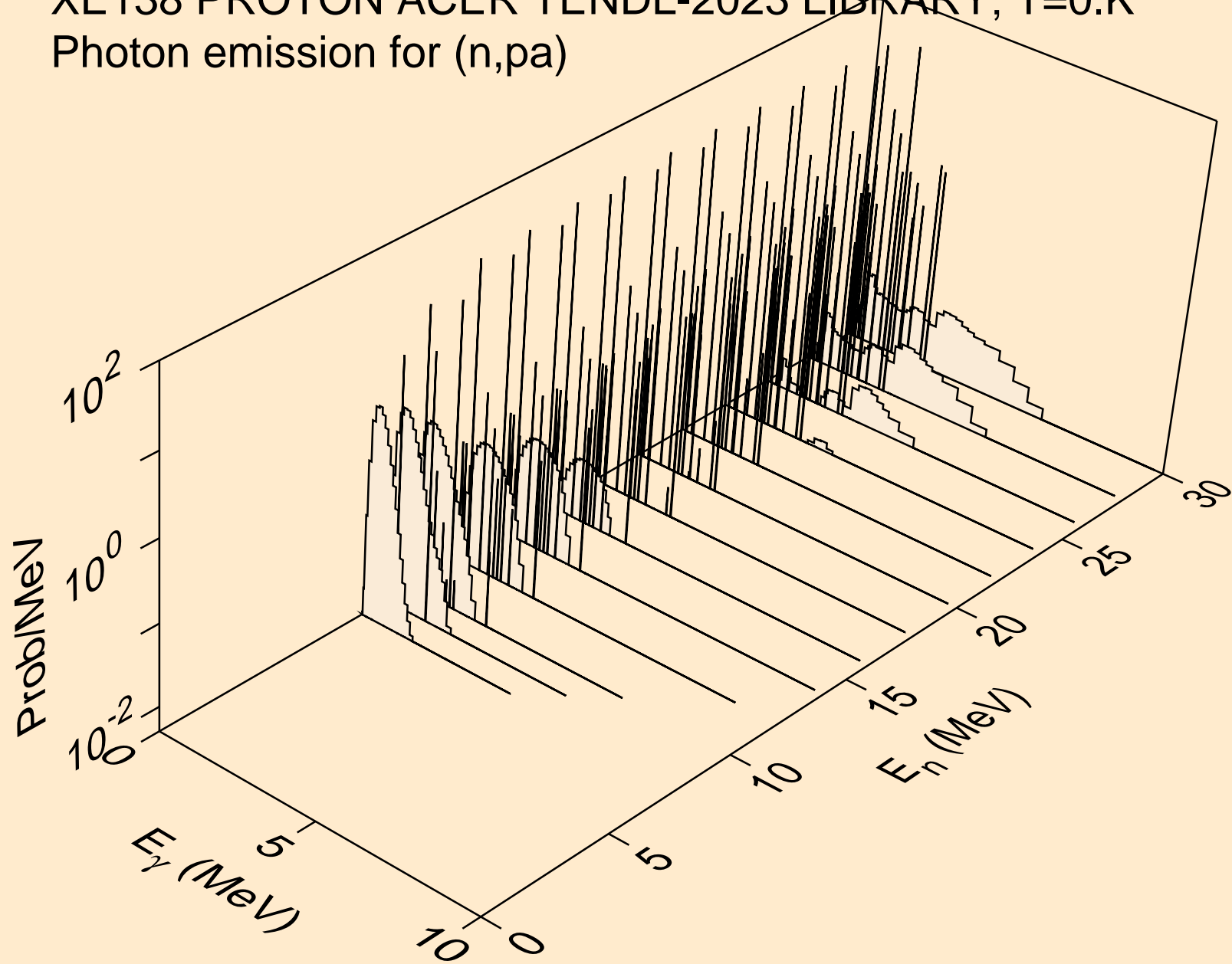
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Photon emission for (n,2a)



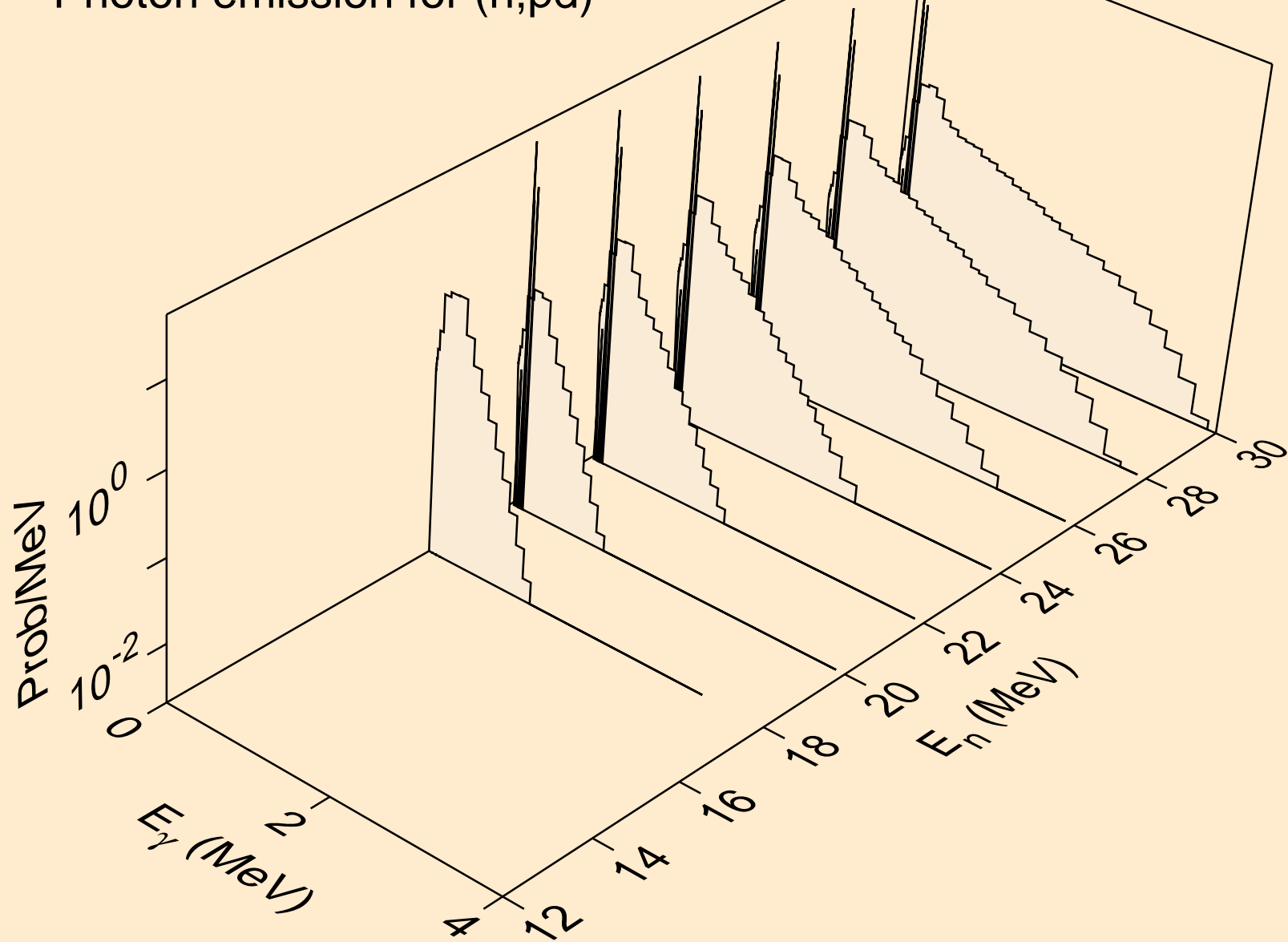
XE138 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2p)



XE138 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,pa)

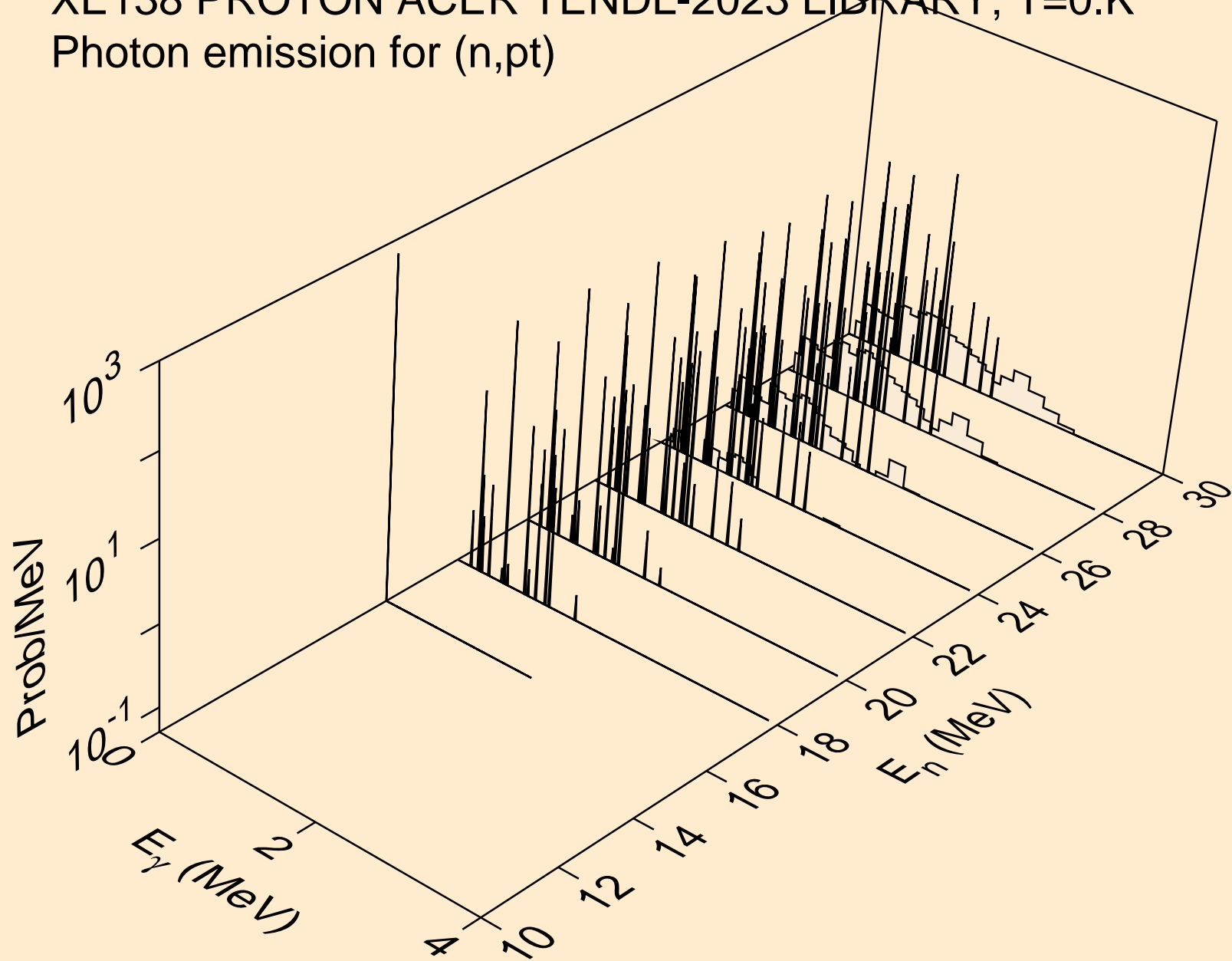


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Photon emission for (n,pd)

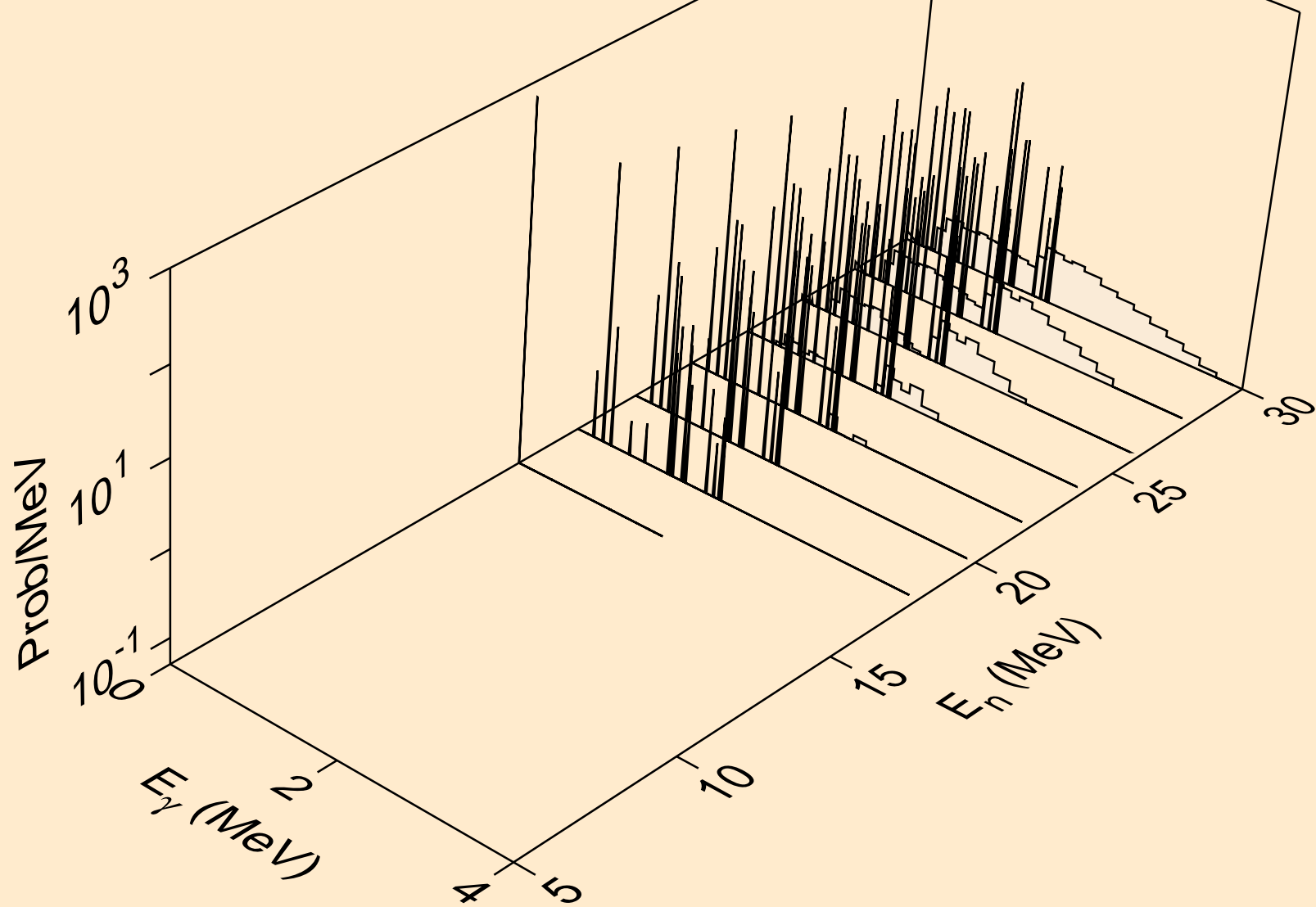




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Photon emission for (n,pt)

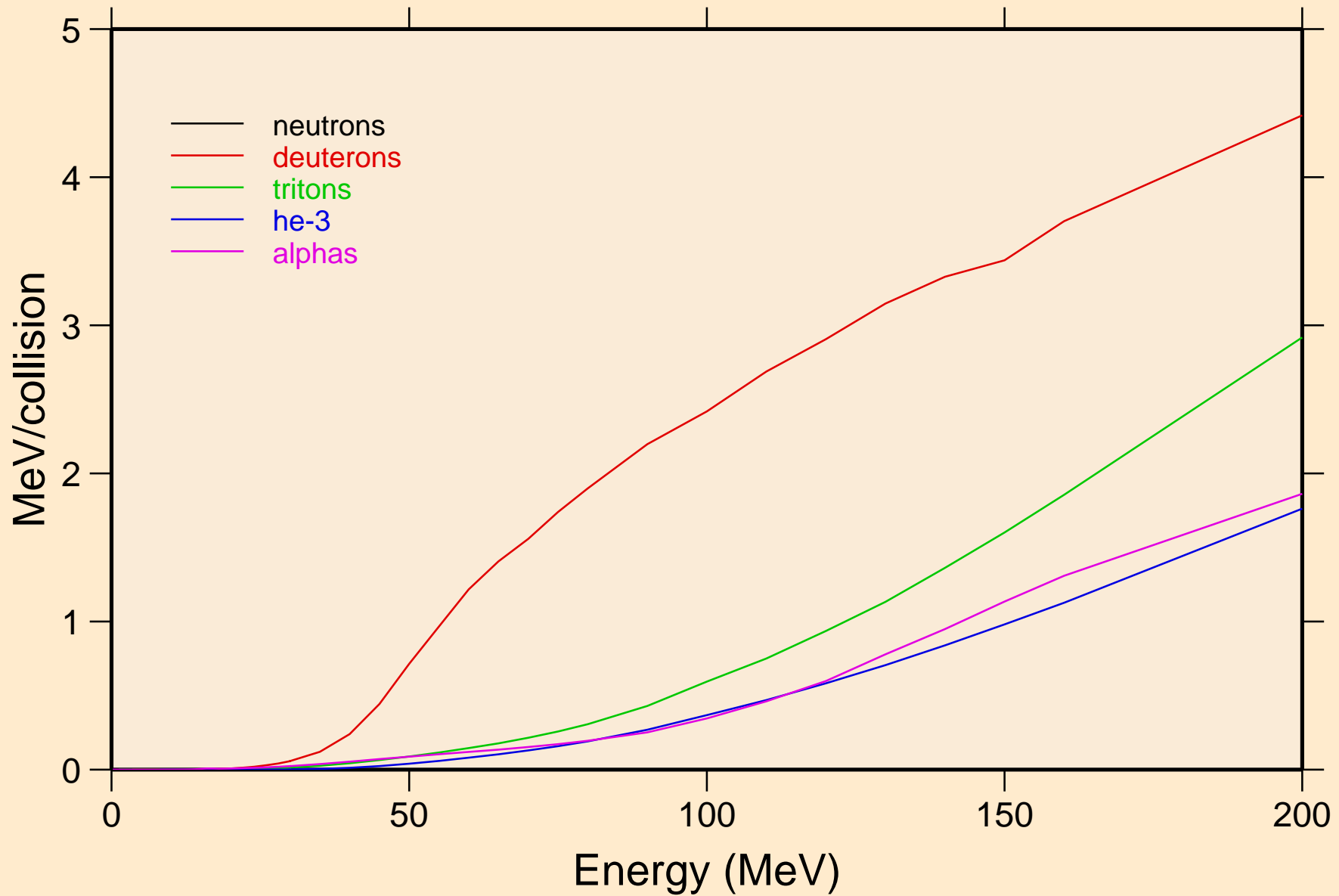


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Photon emission for (n,da)

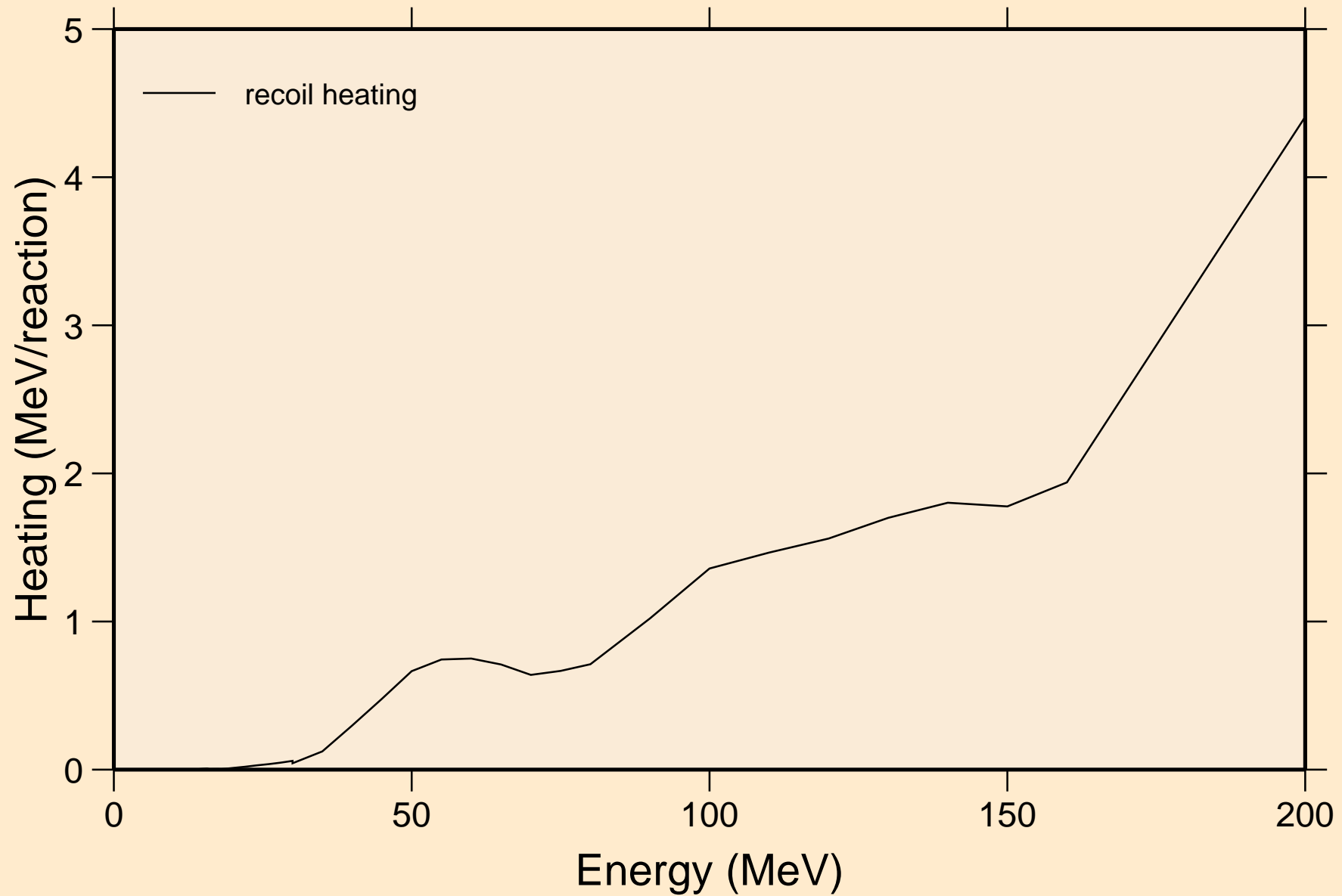


# XE138 PROTON ACER TENDL-2023 LIBRARY; T=0.K

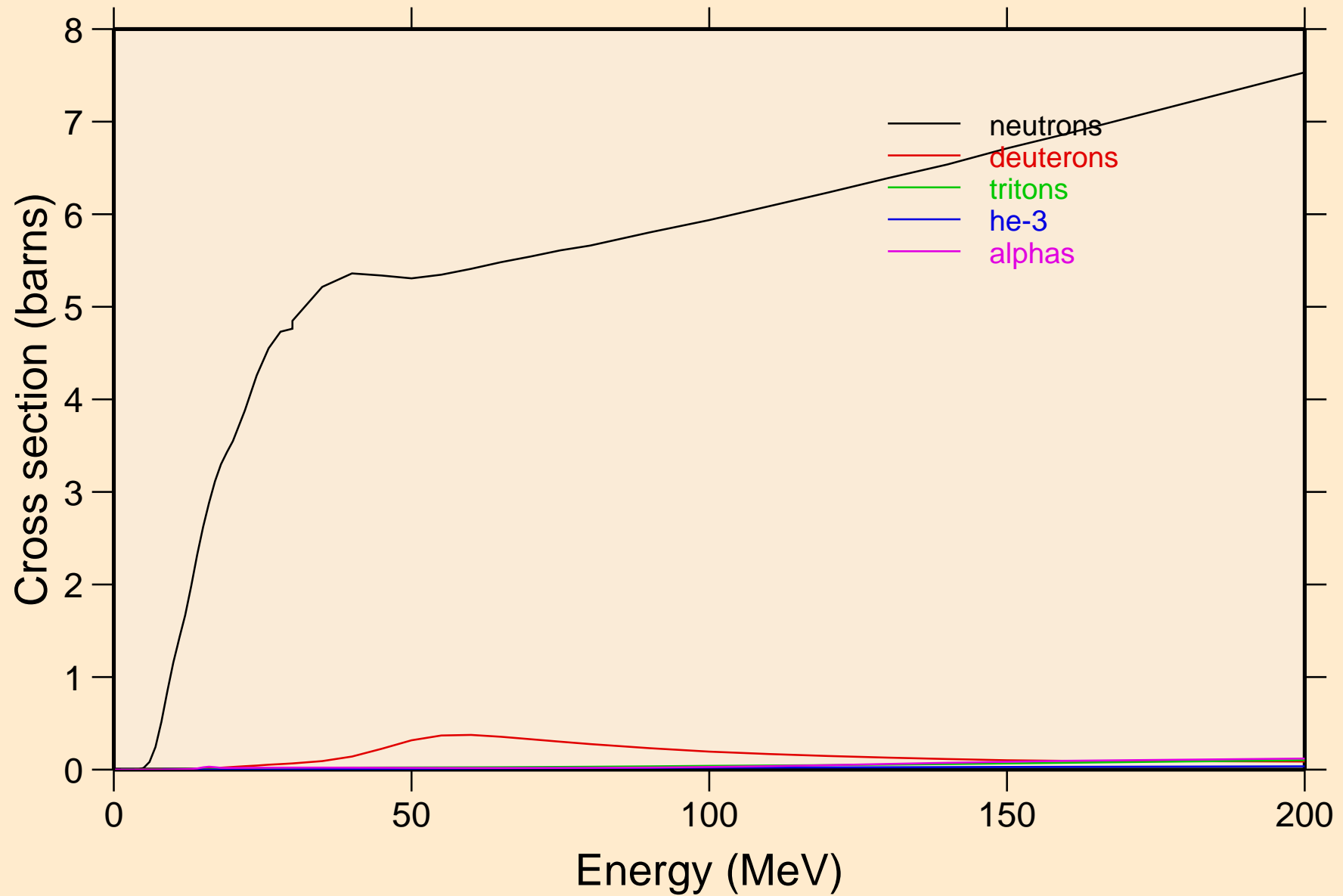
## Particle heating contributions



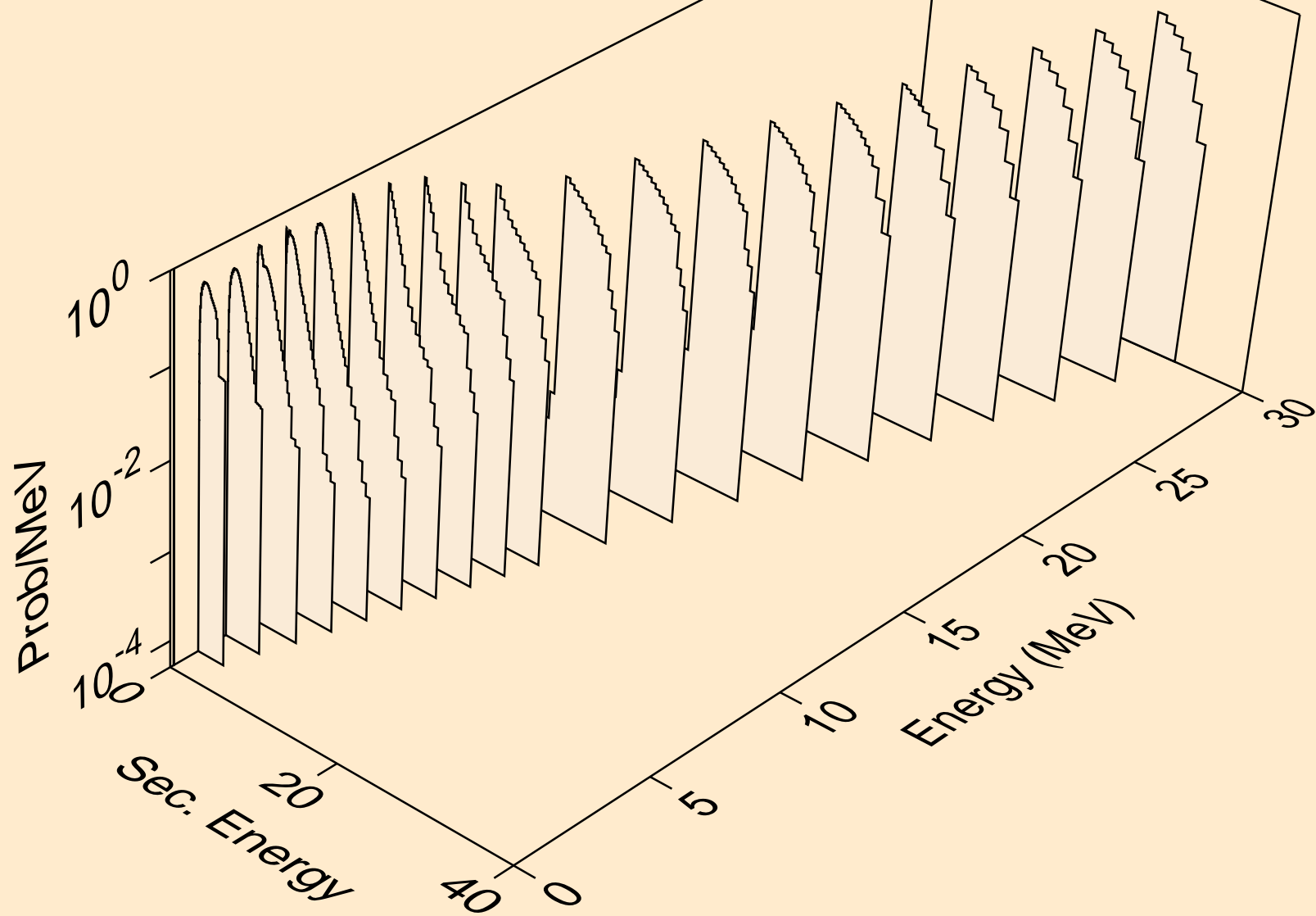
XE138 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Recoil Heating



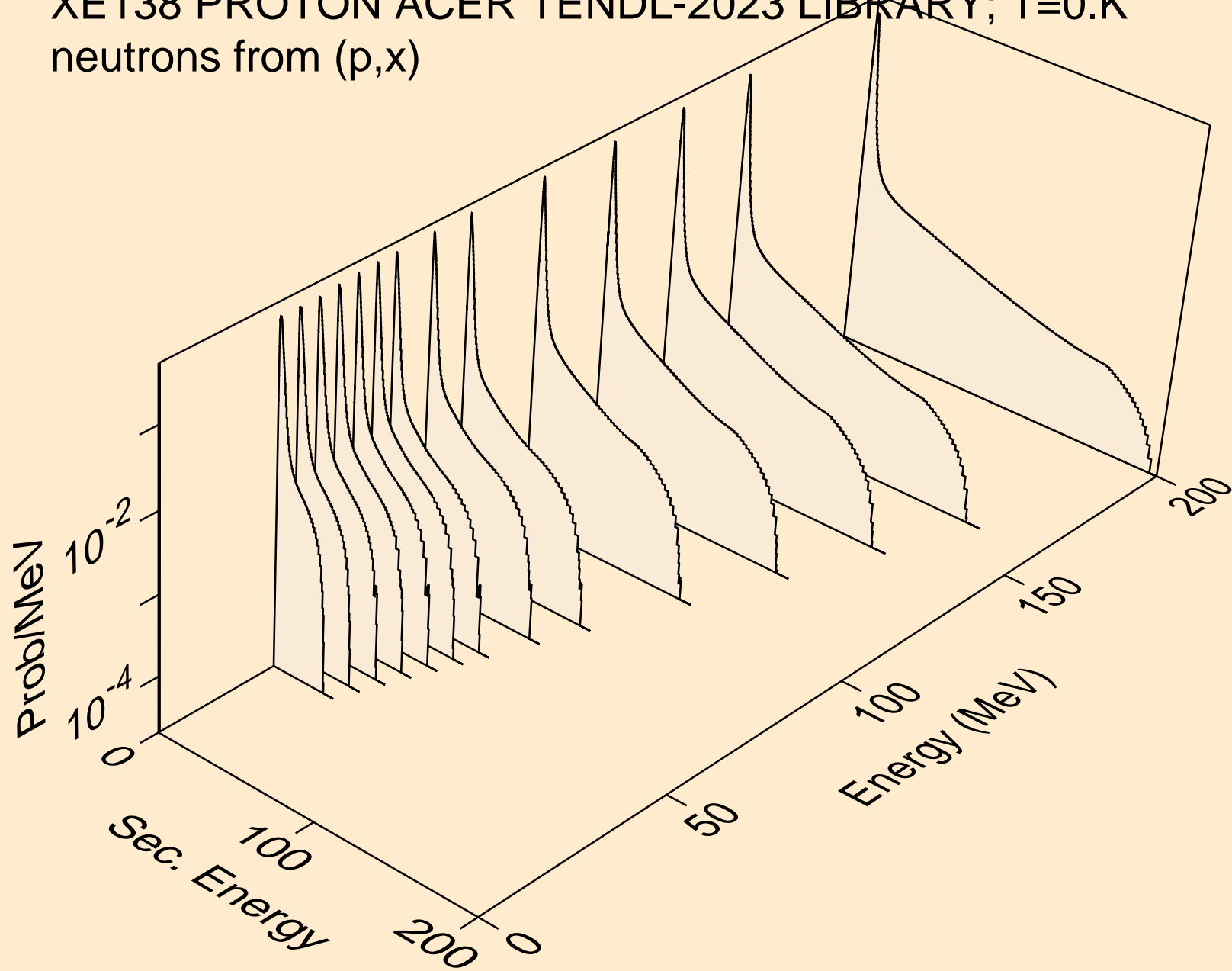
XE138 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Particle production cross sections



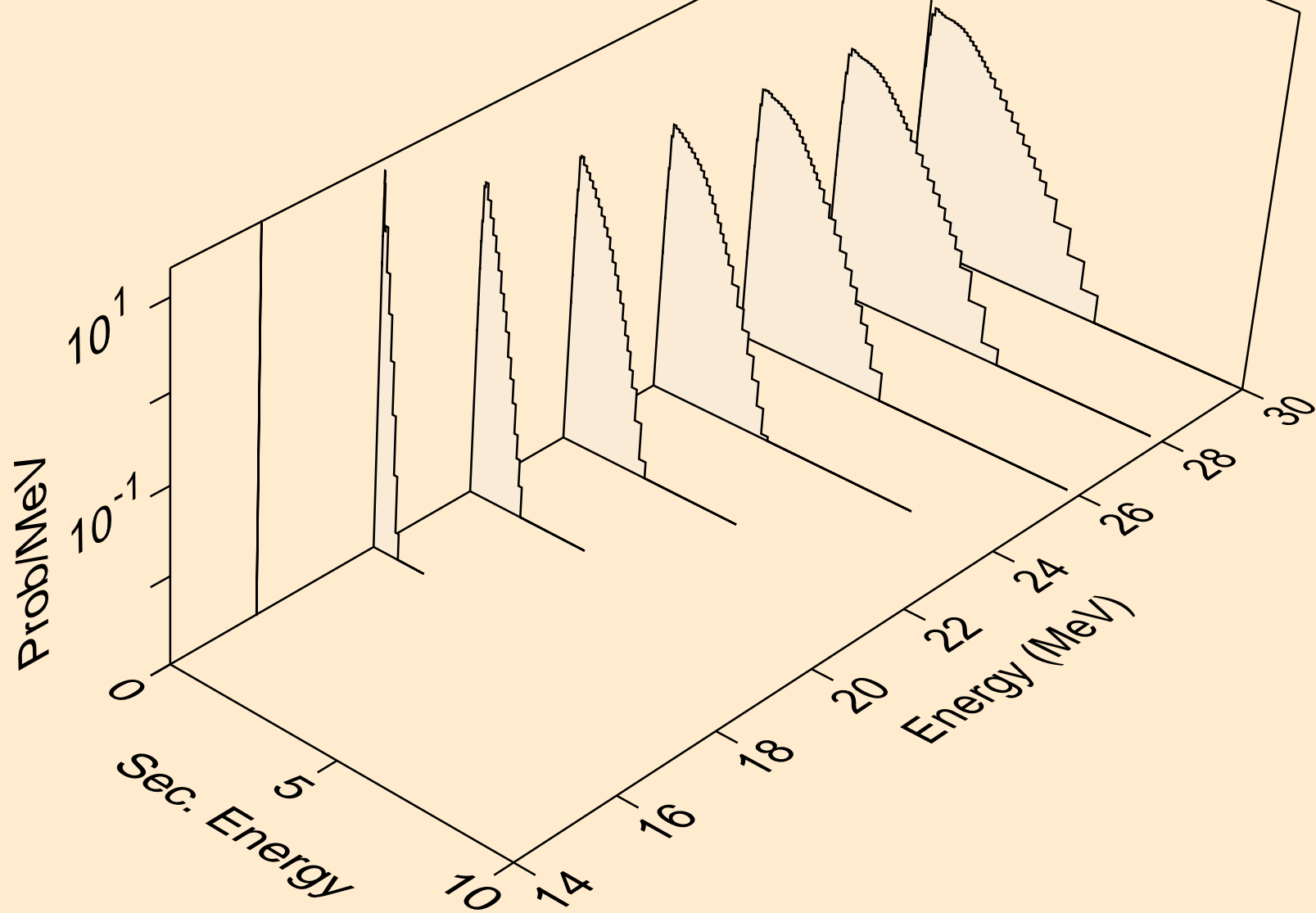
XE138 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (p,n)



XE138 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (p,x)

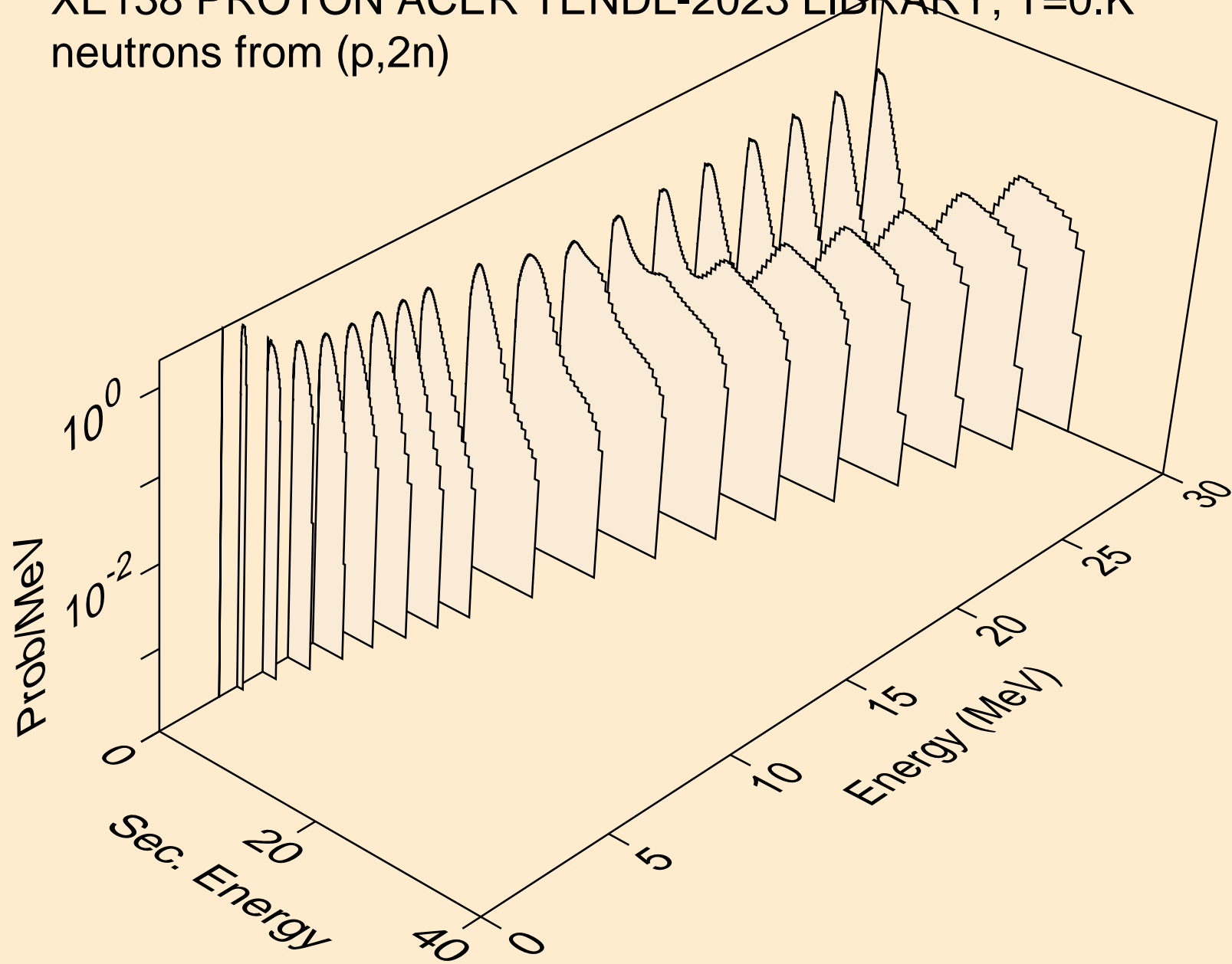


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neutrons from (p,2nd)

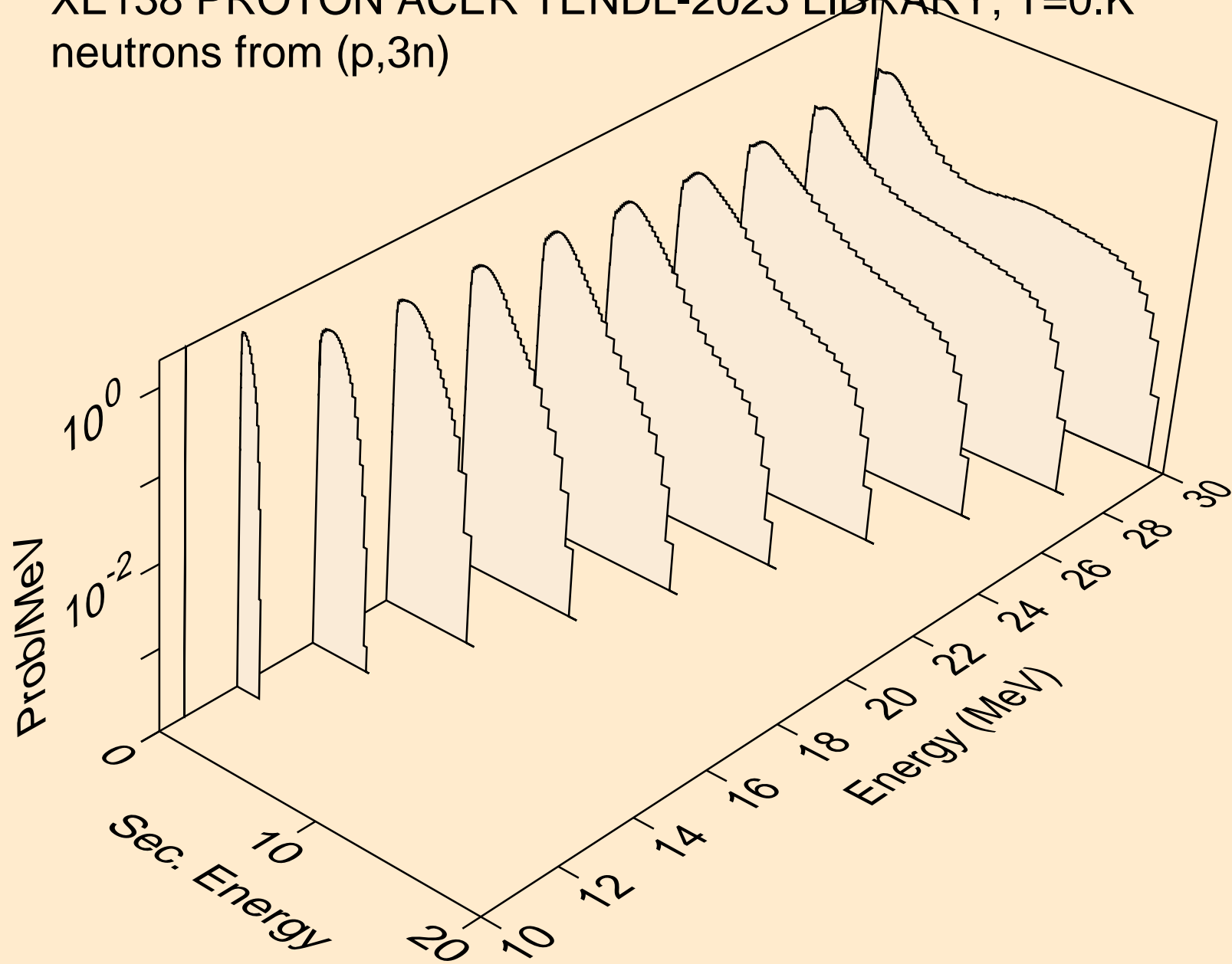




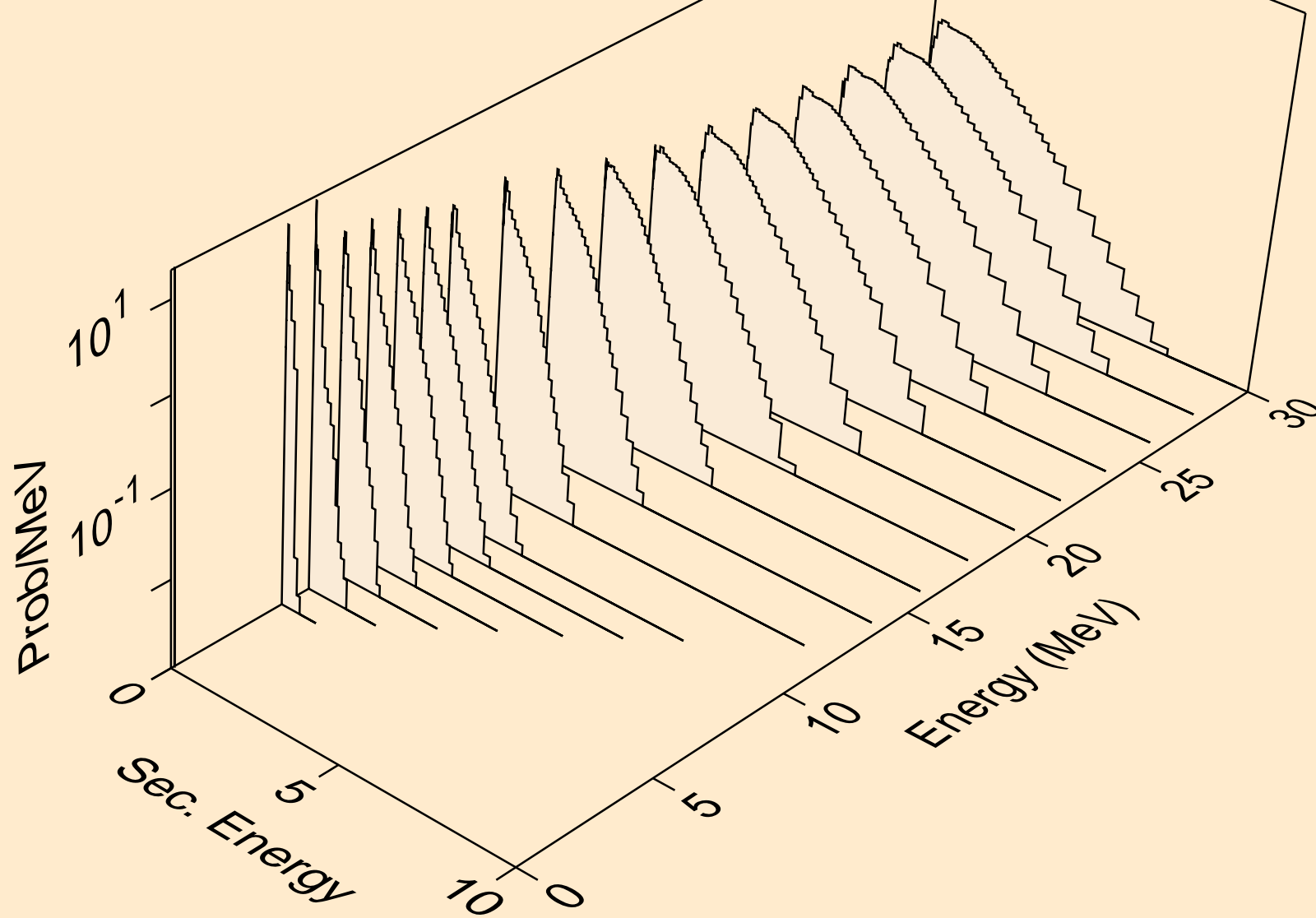
XE138 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (p,2n)



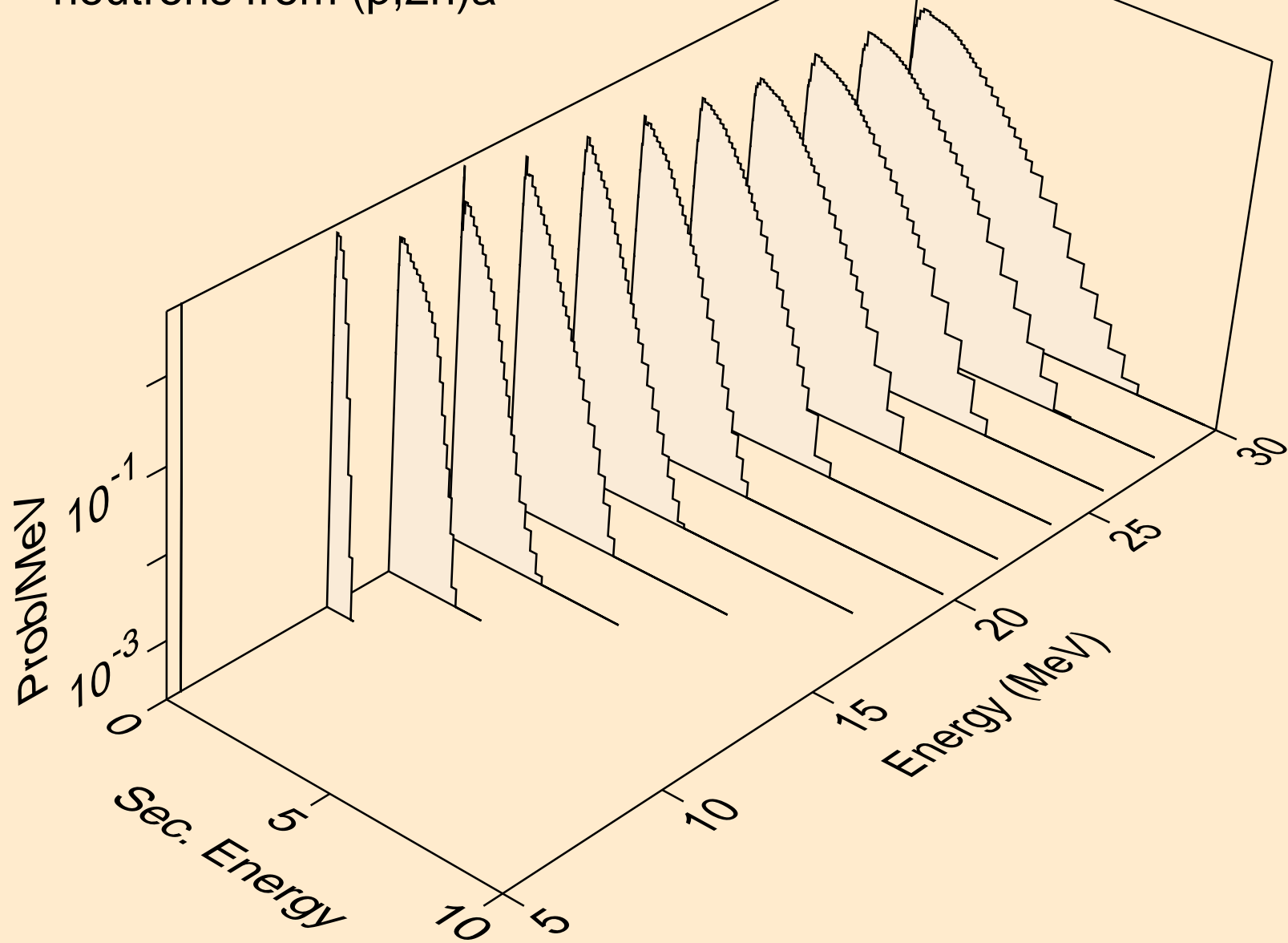
XE138 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
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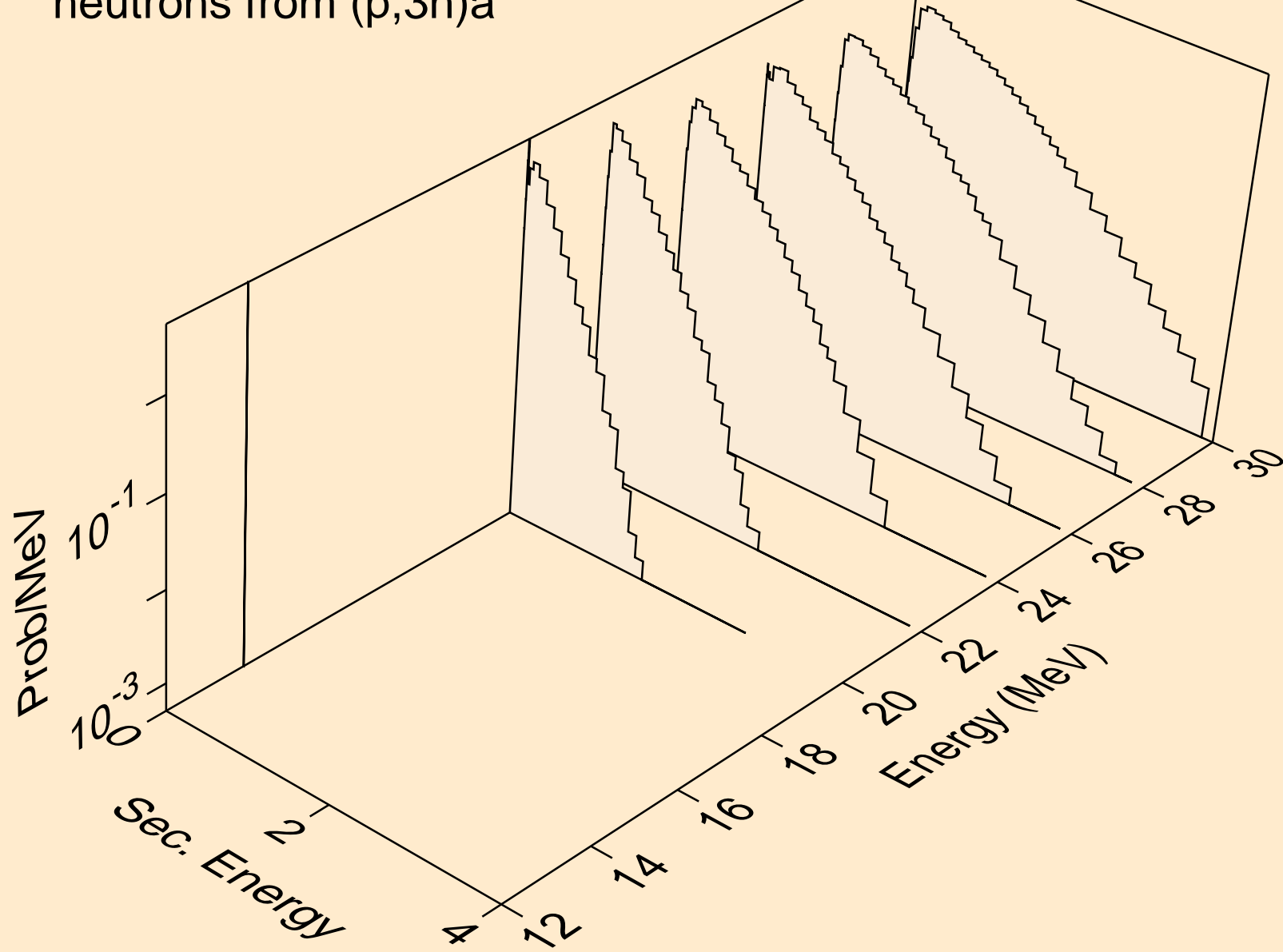
XE138 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (p,n\*)a



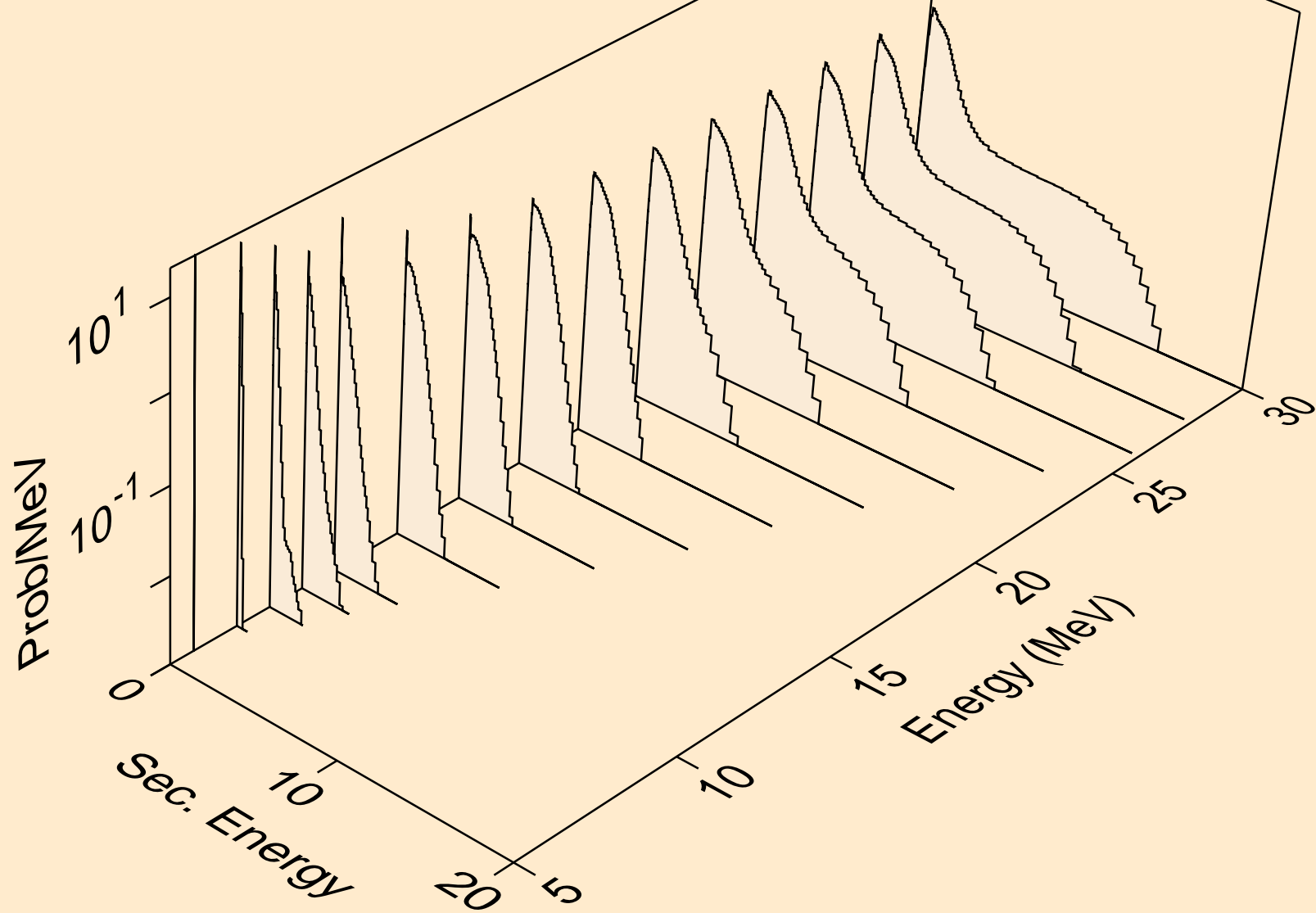
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neutrons from (p,2n)a



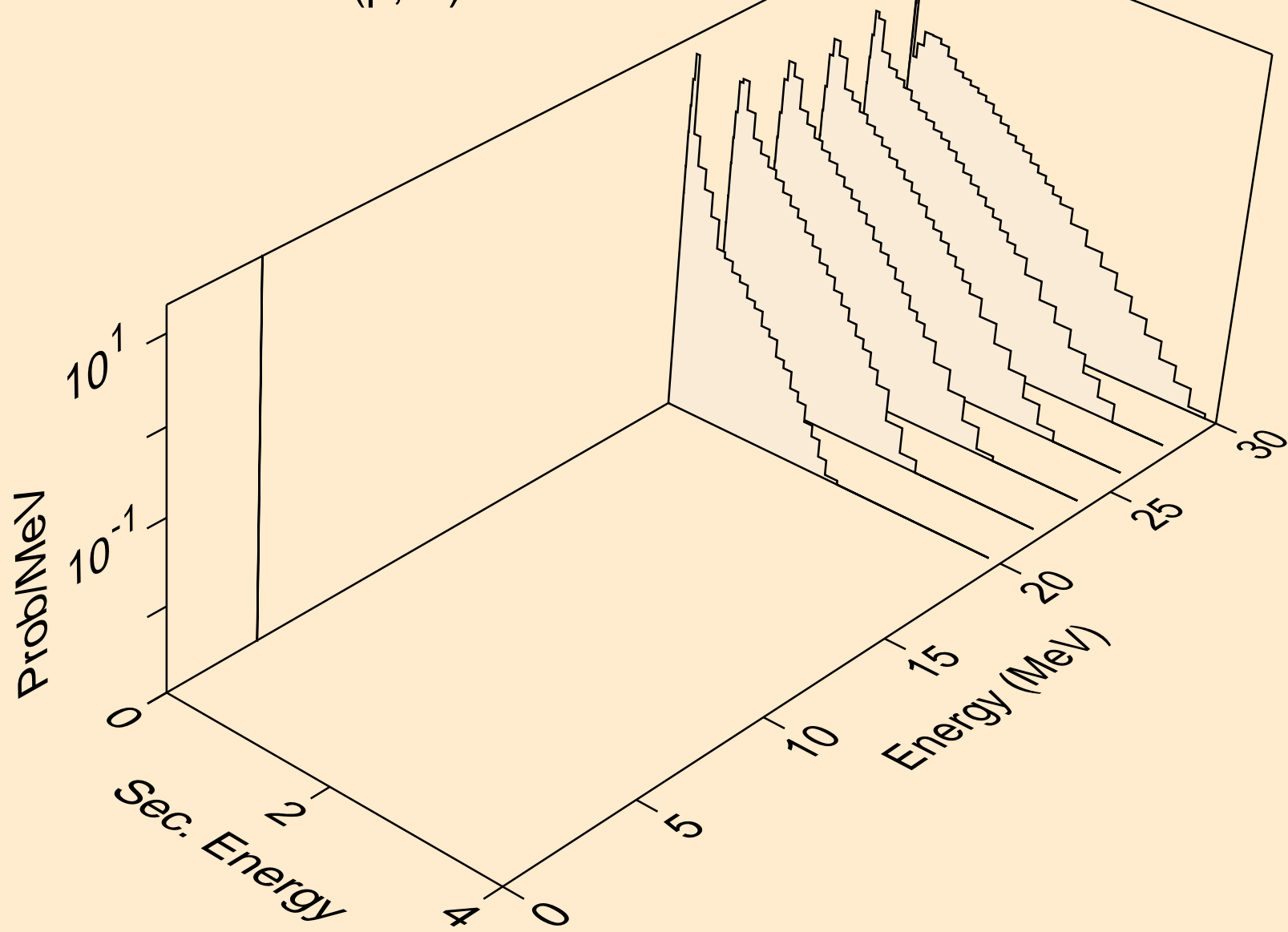
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neutrons from (p,3n)a



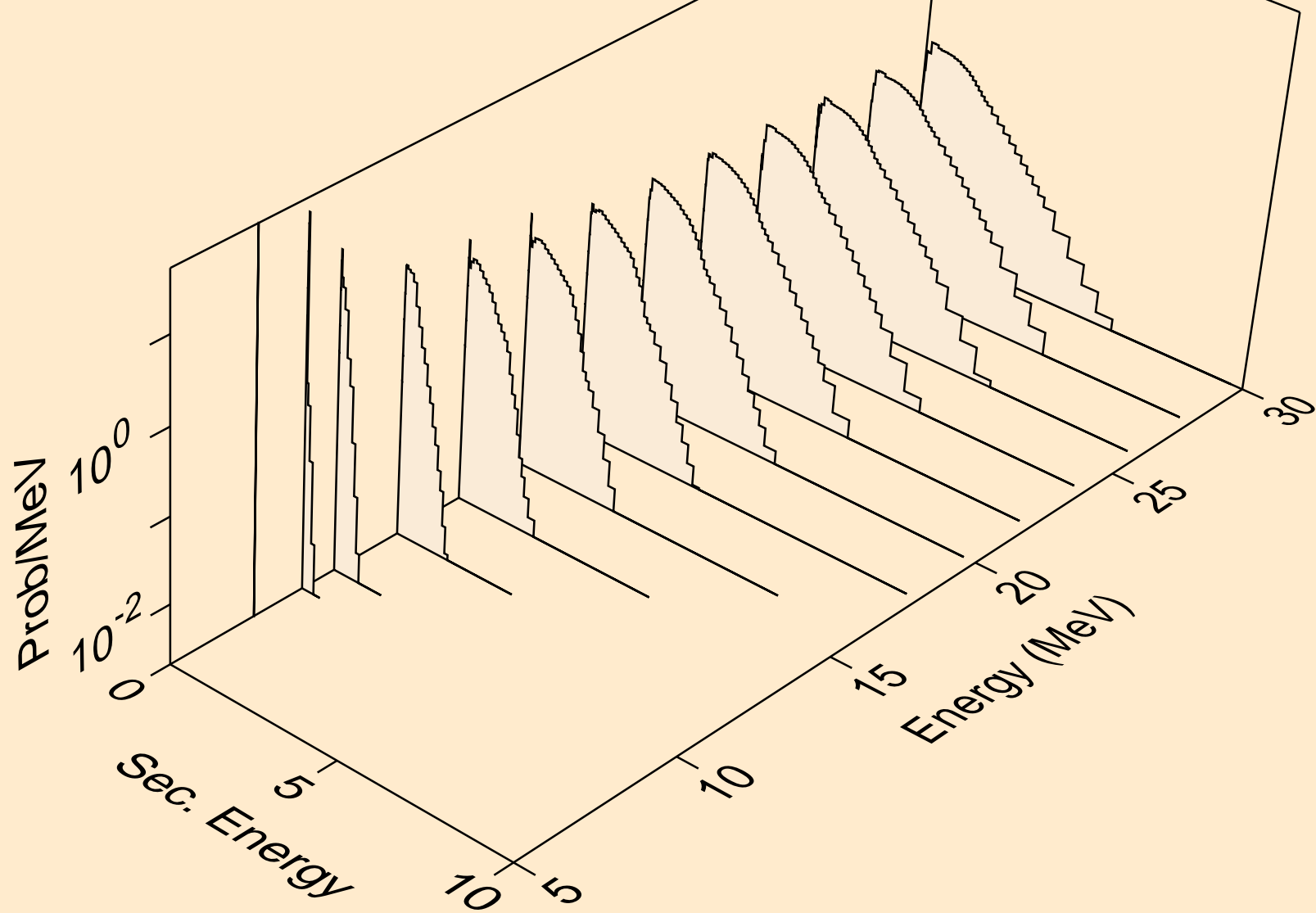
XE138 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (p,n\*)p



XE138 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (p,n\*)2a

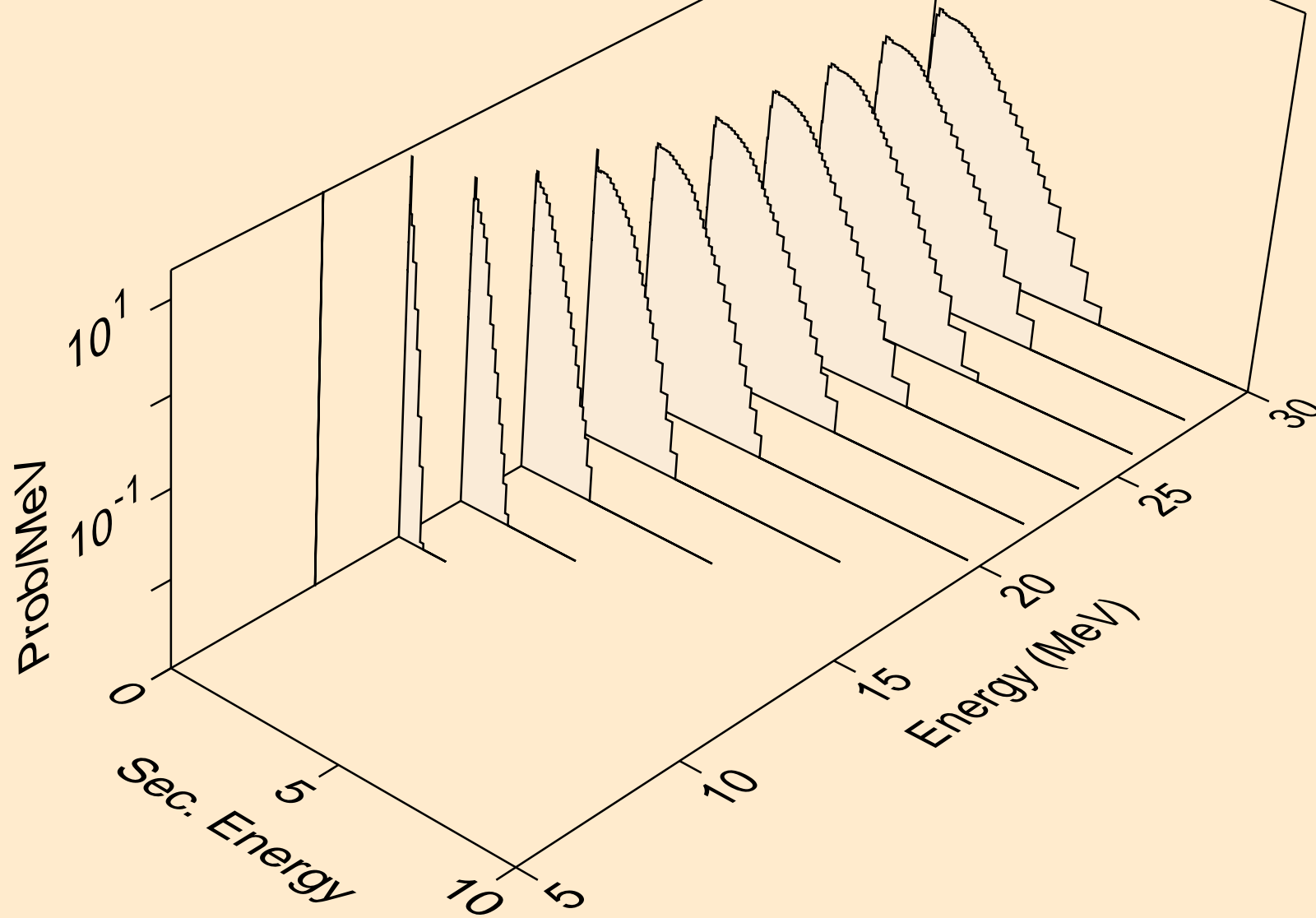


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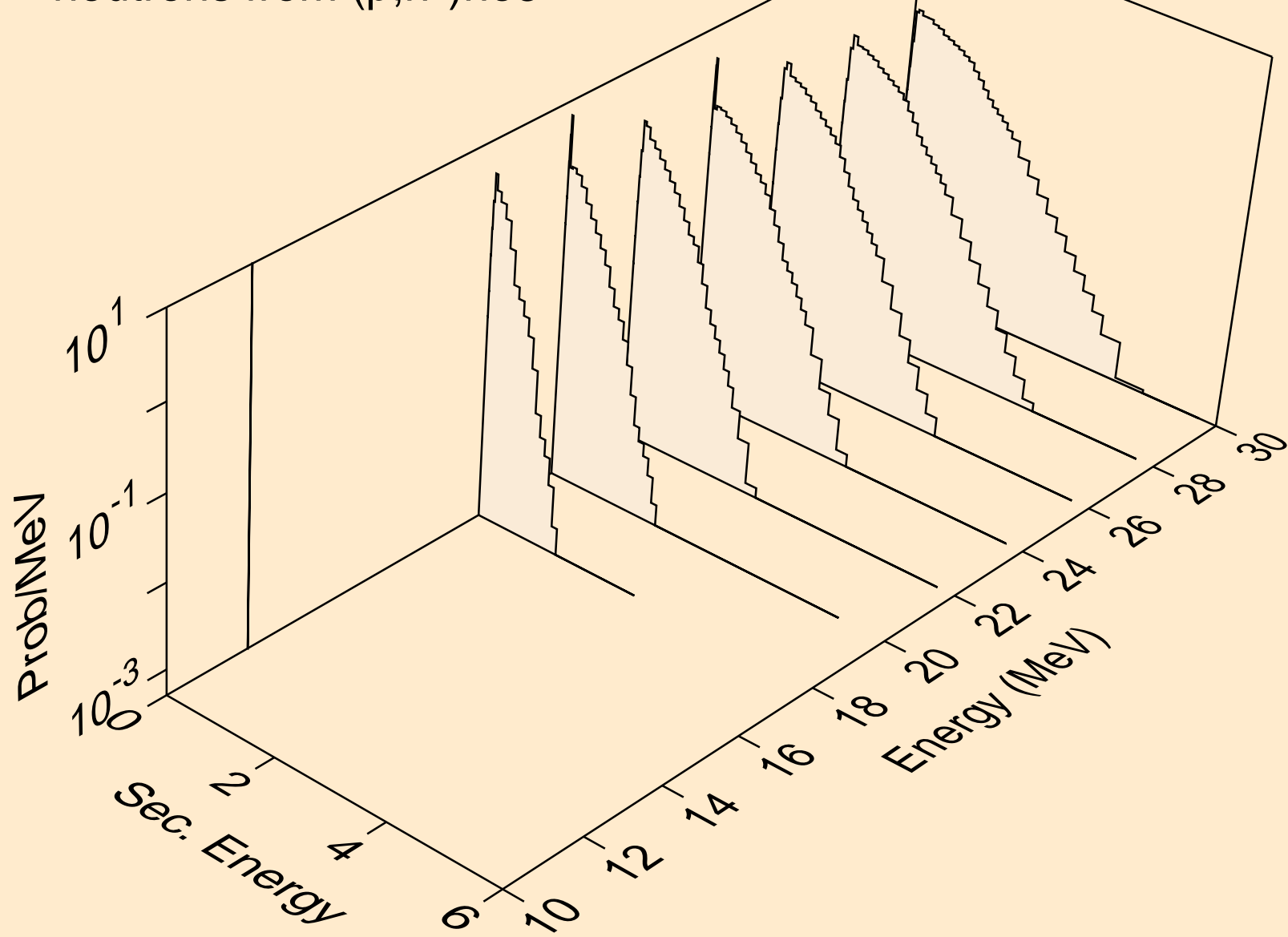




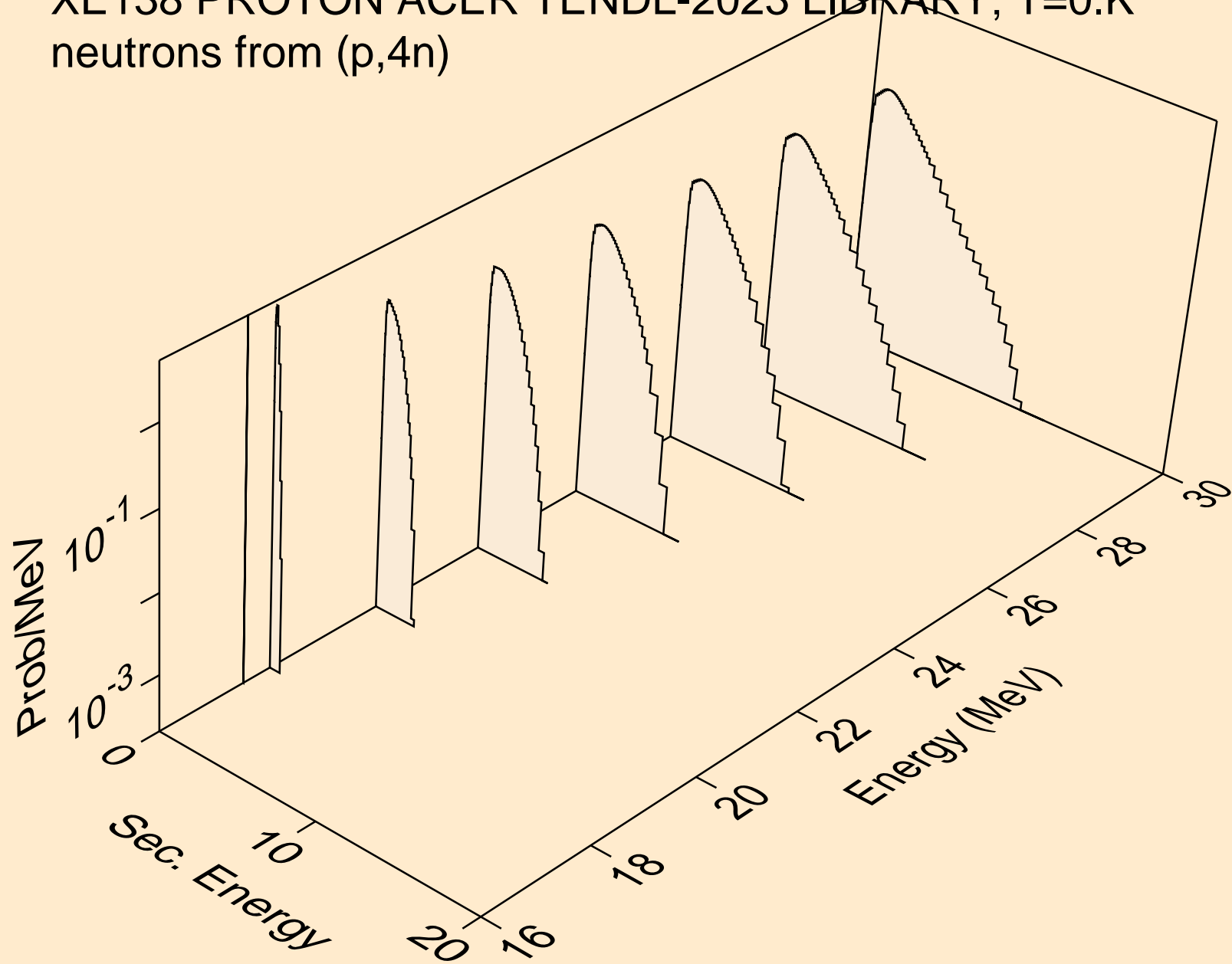
XE138 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (p,n\*)t



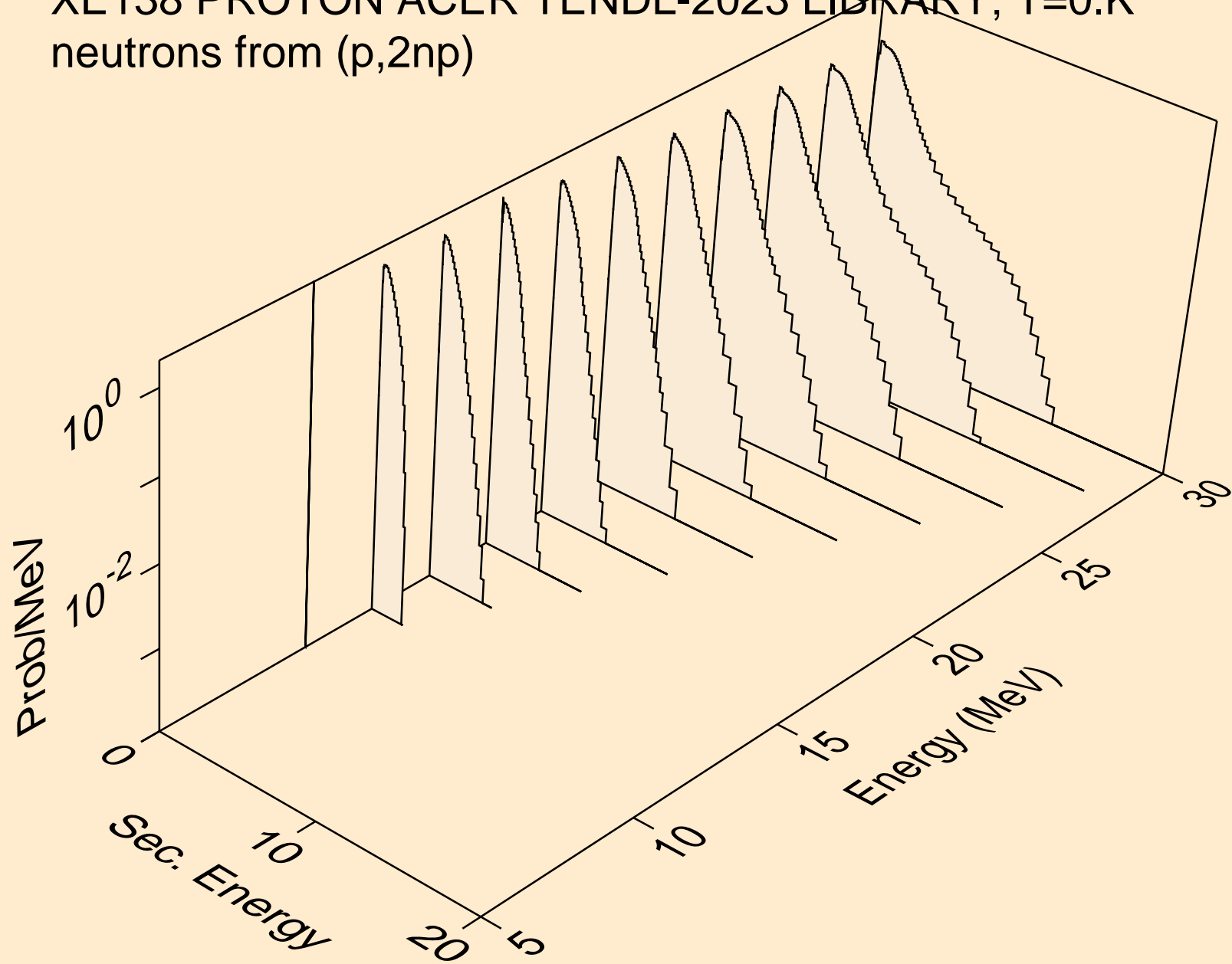
XE138 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (p,n\*)he3



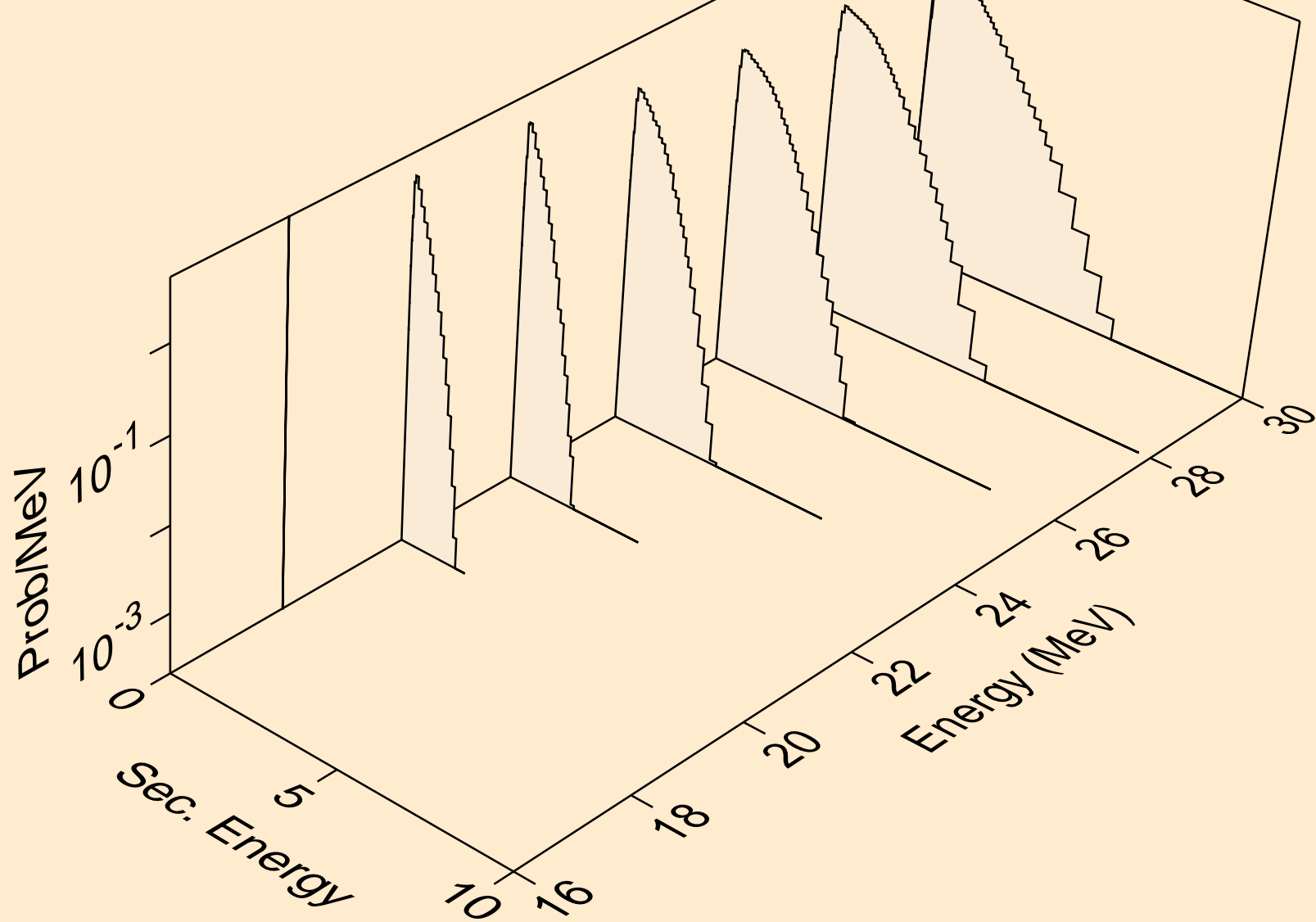
XE138 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (p,4n)



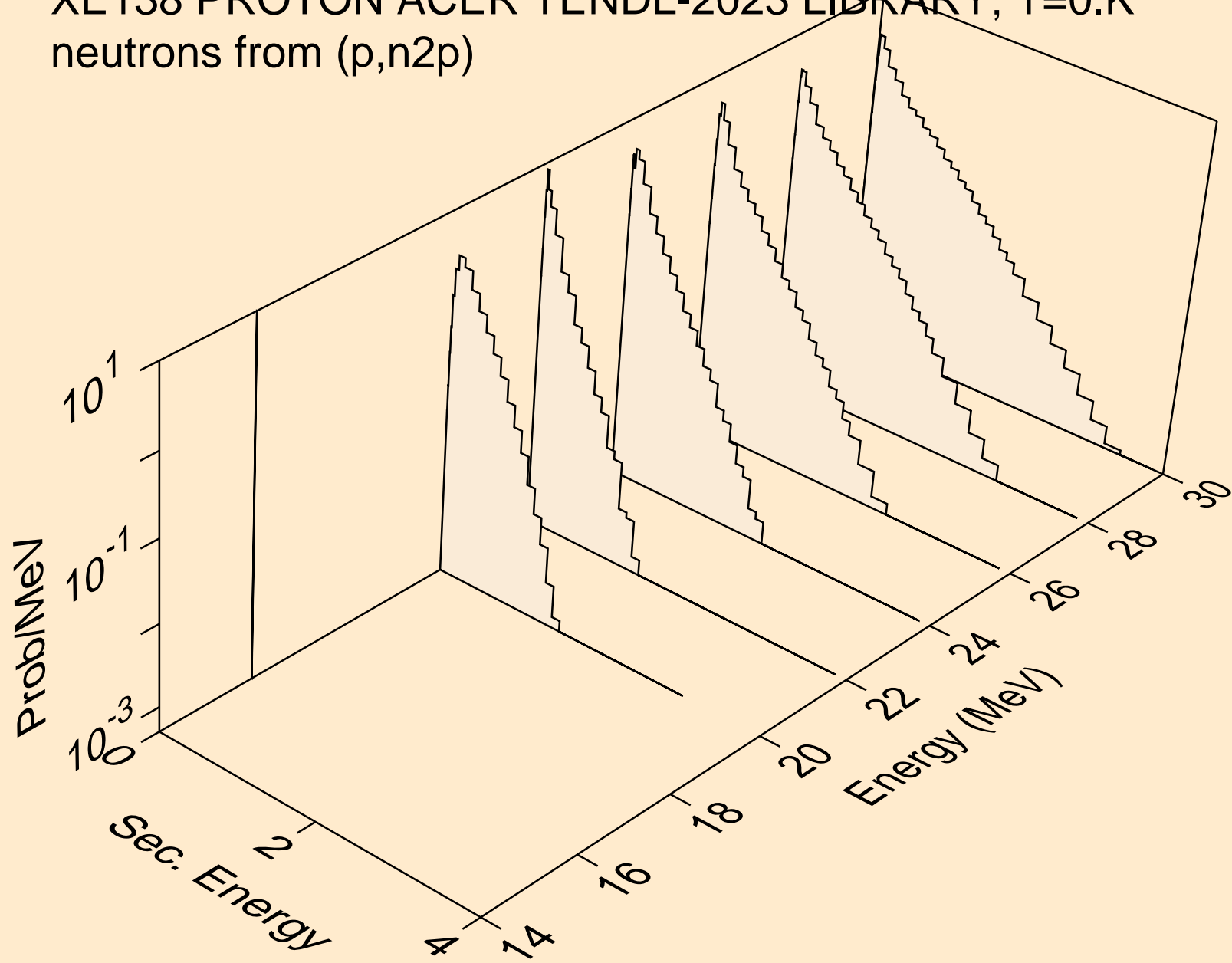
XE138 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (p,2np)



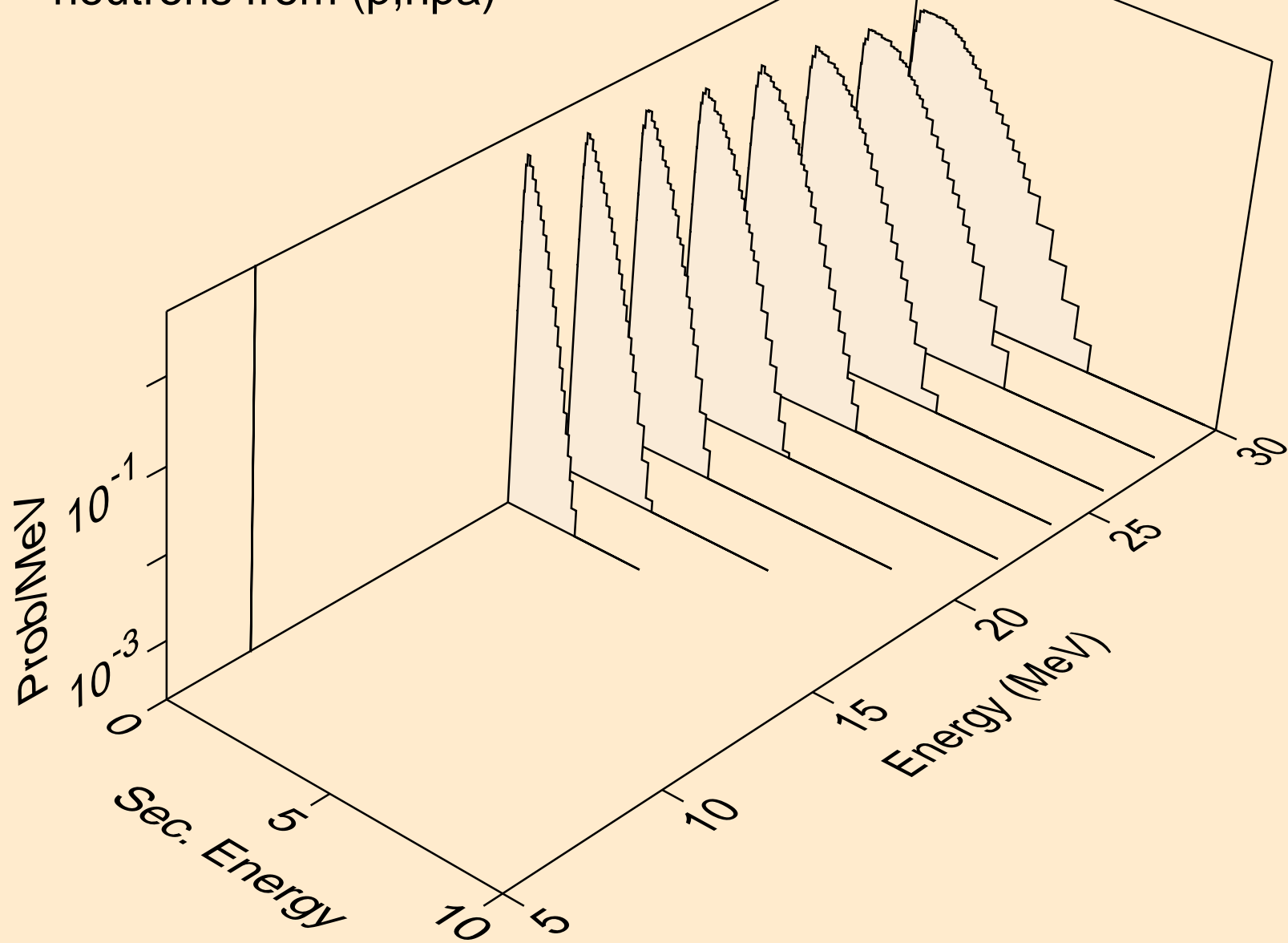
XE138 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (p,3np)



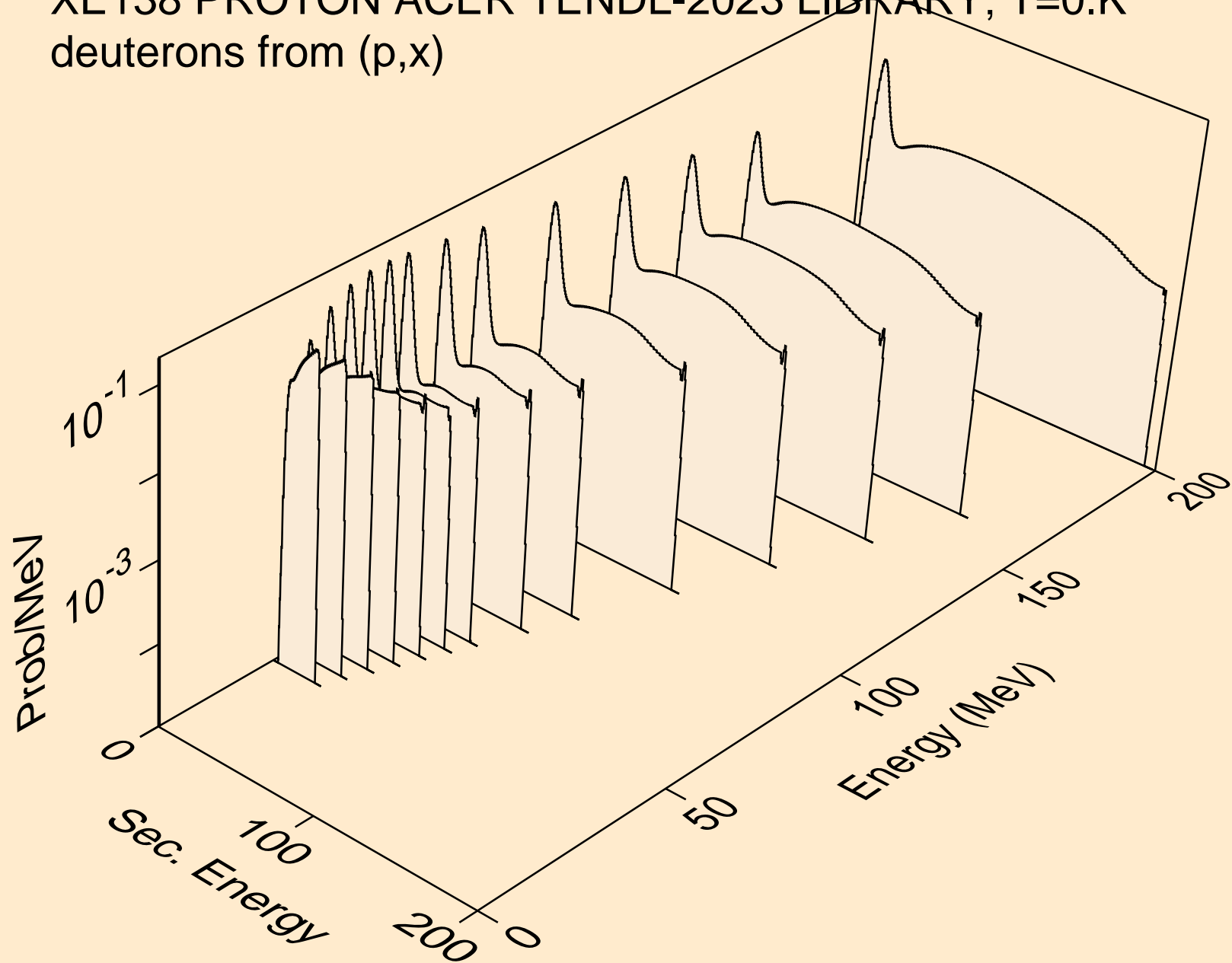
XE138 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (p,n2p)



XE138 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (p,npa)

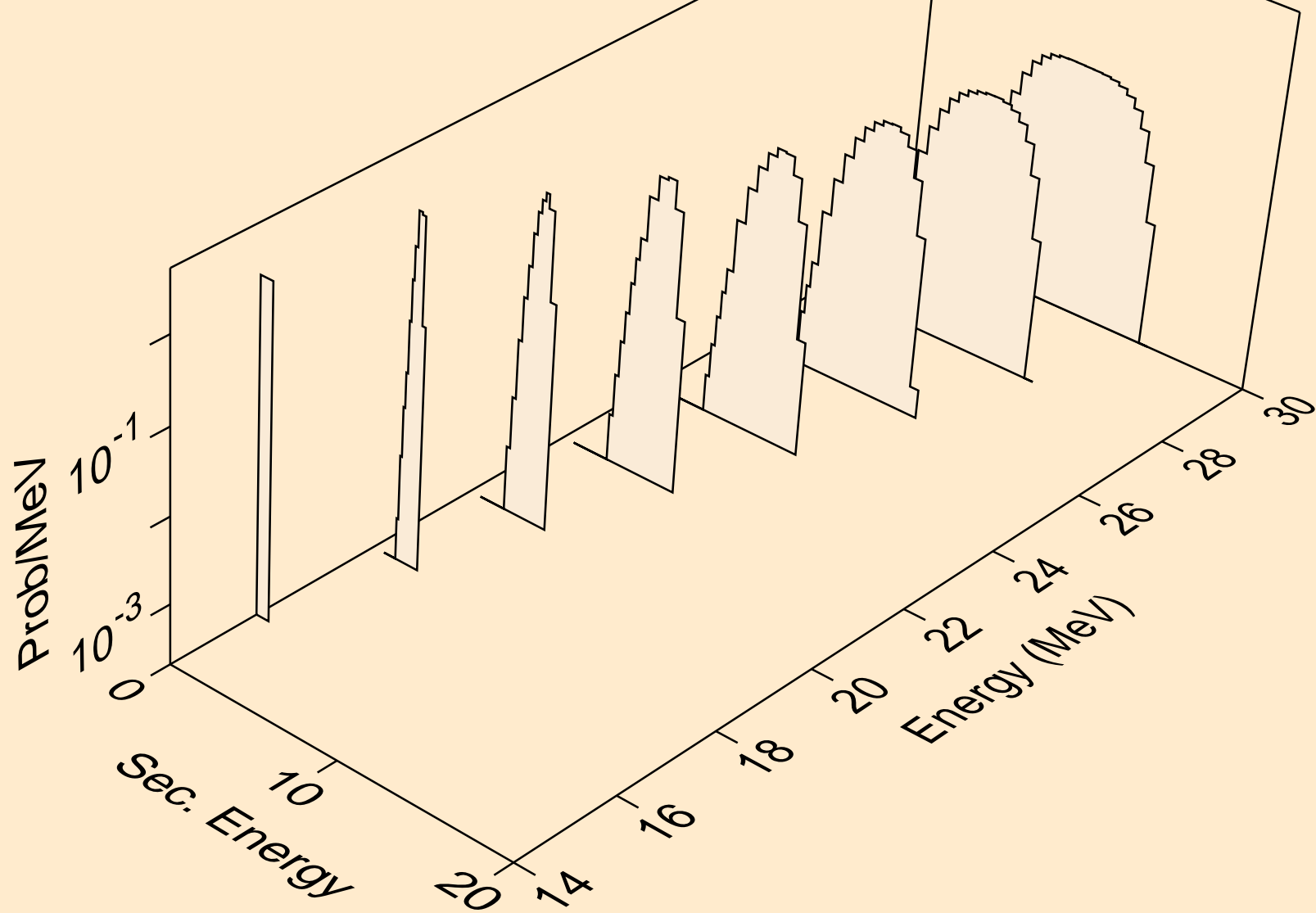


XE138 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
deuterons from (p,x)

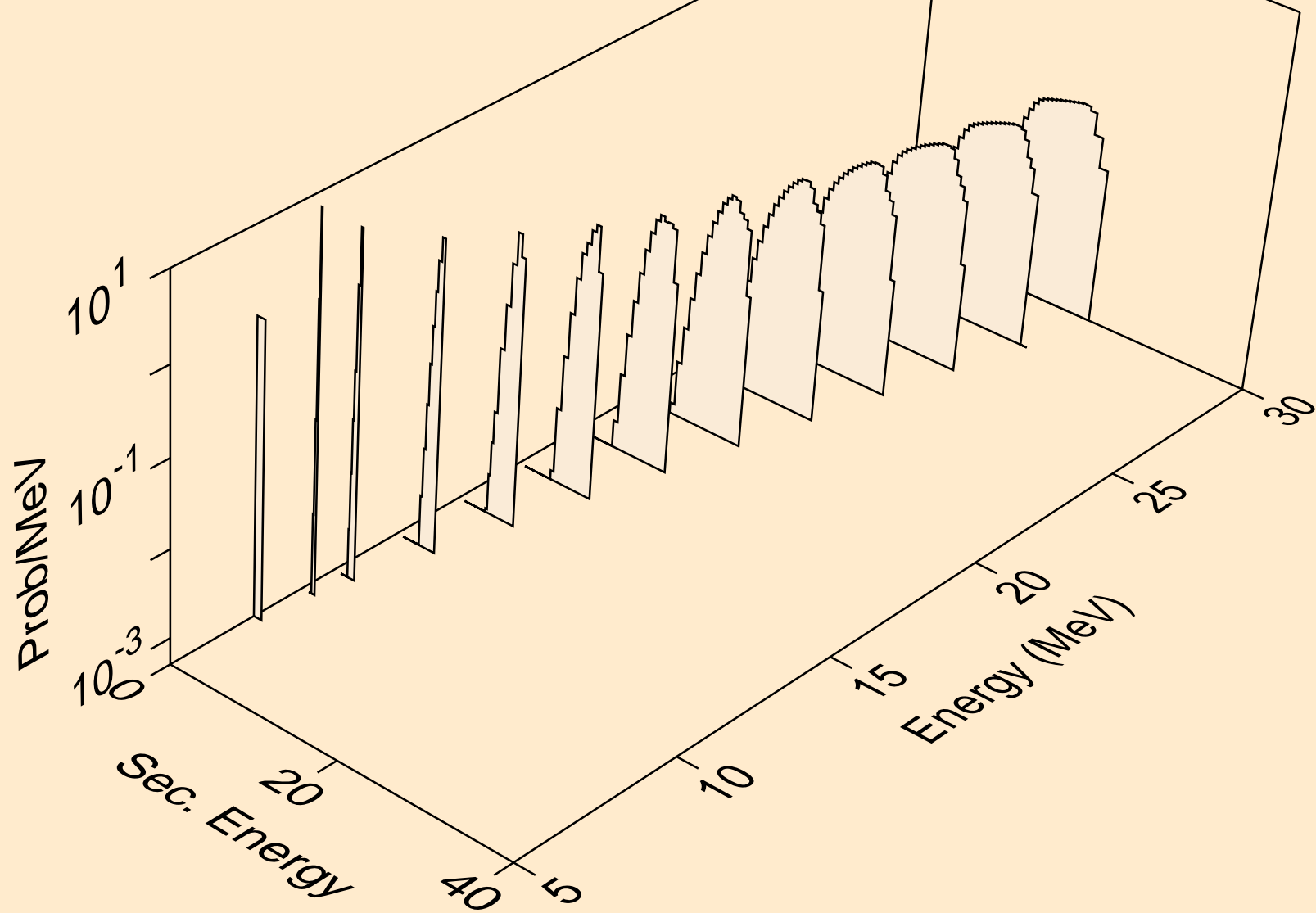




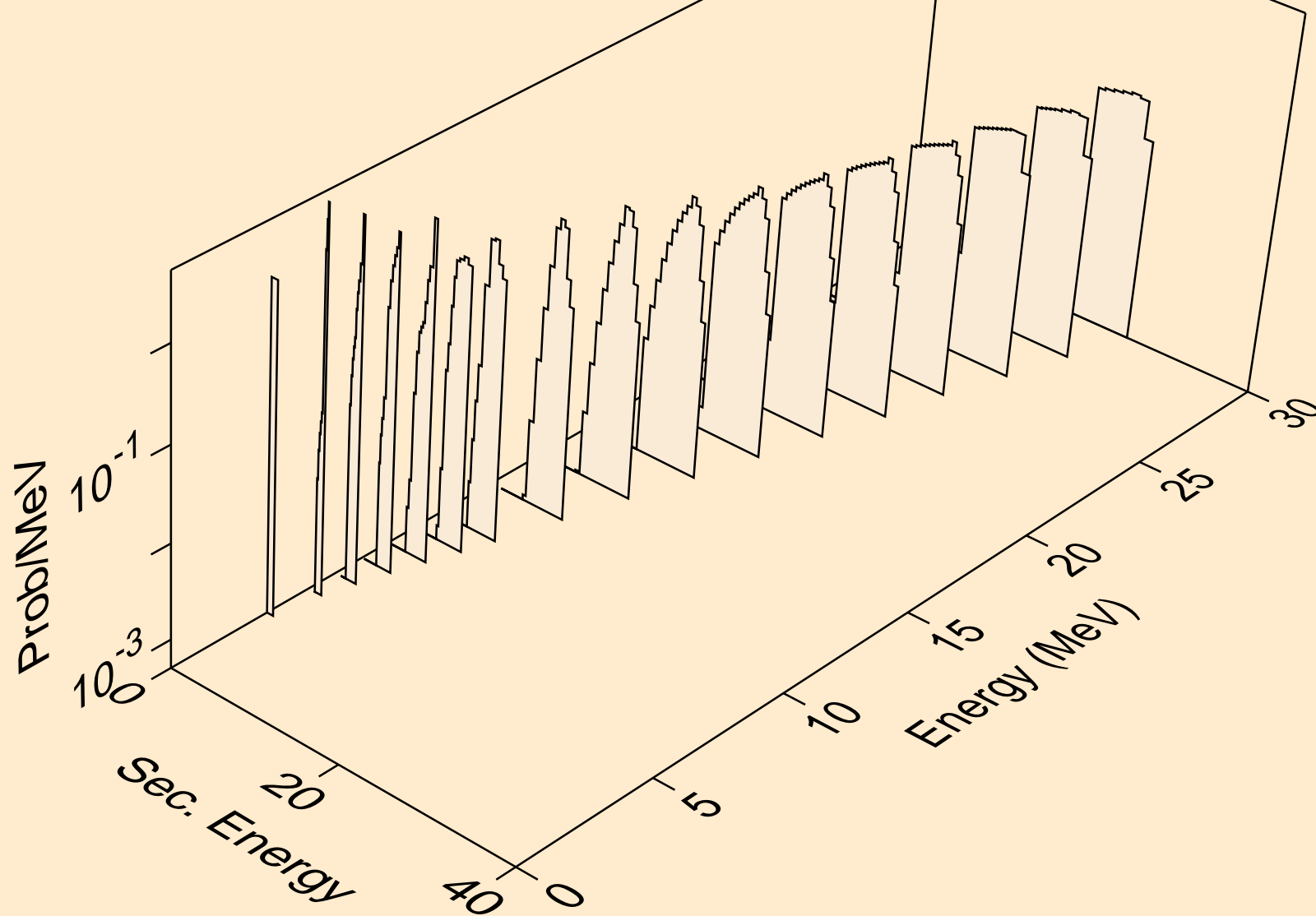
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deuterons from (p,2nd)



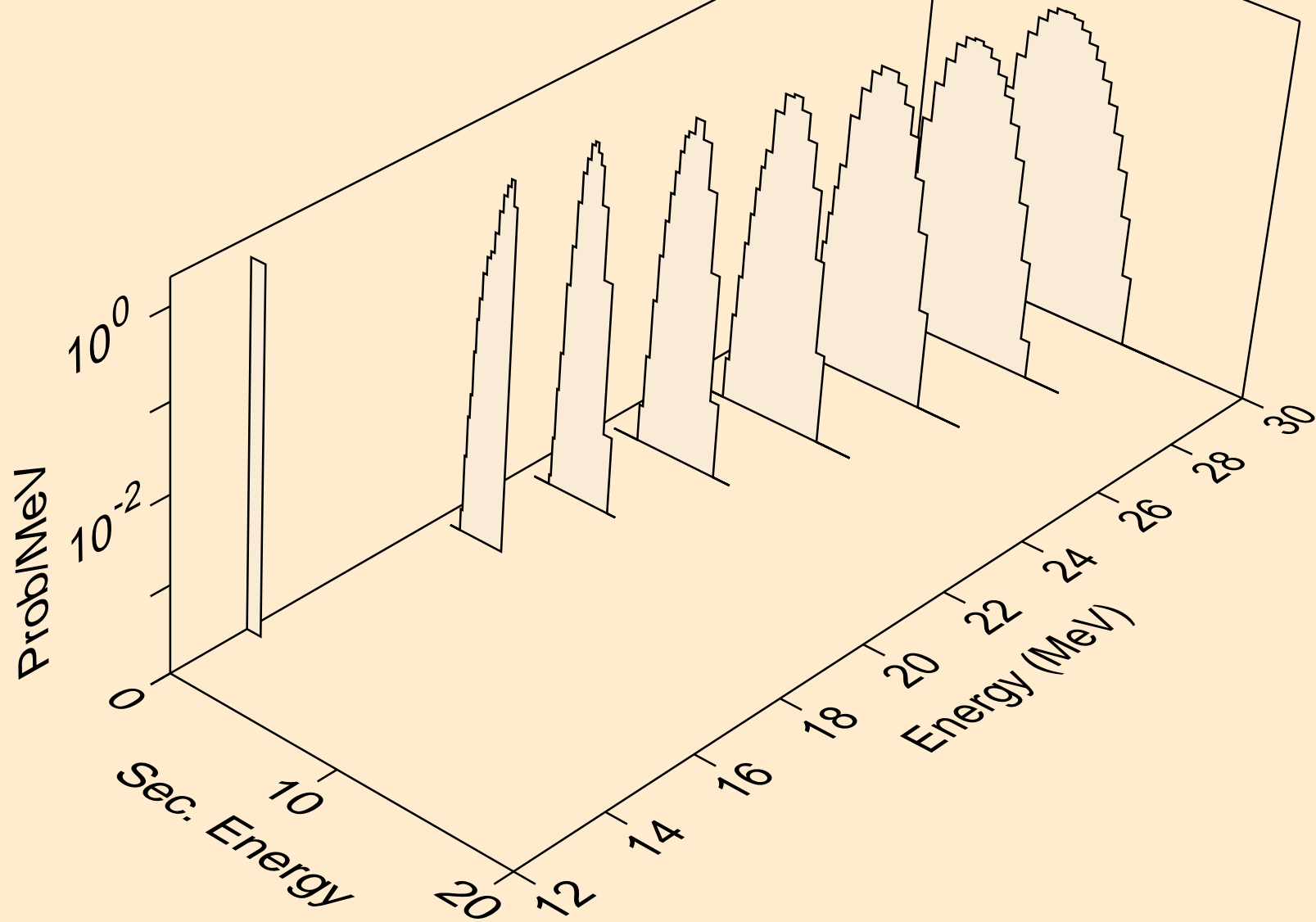
XE138 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
deuterons from (p,n\*)d



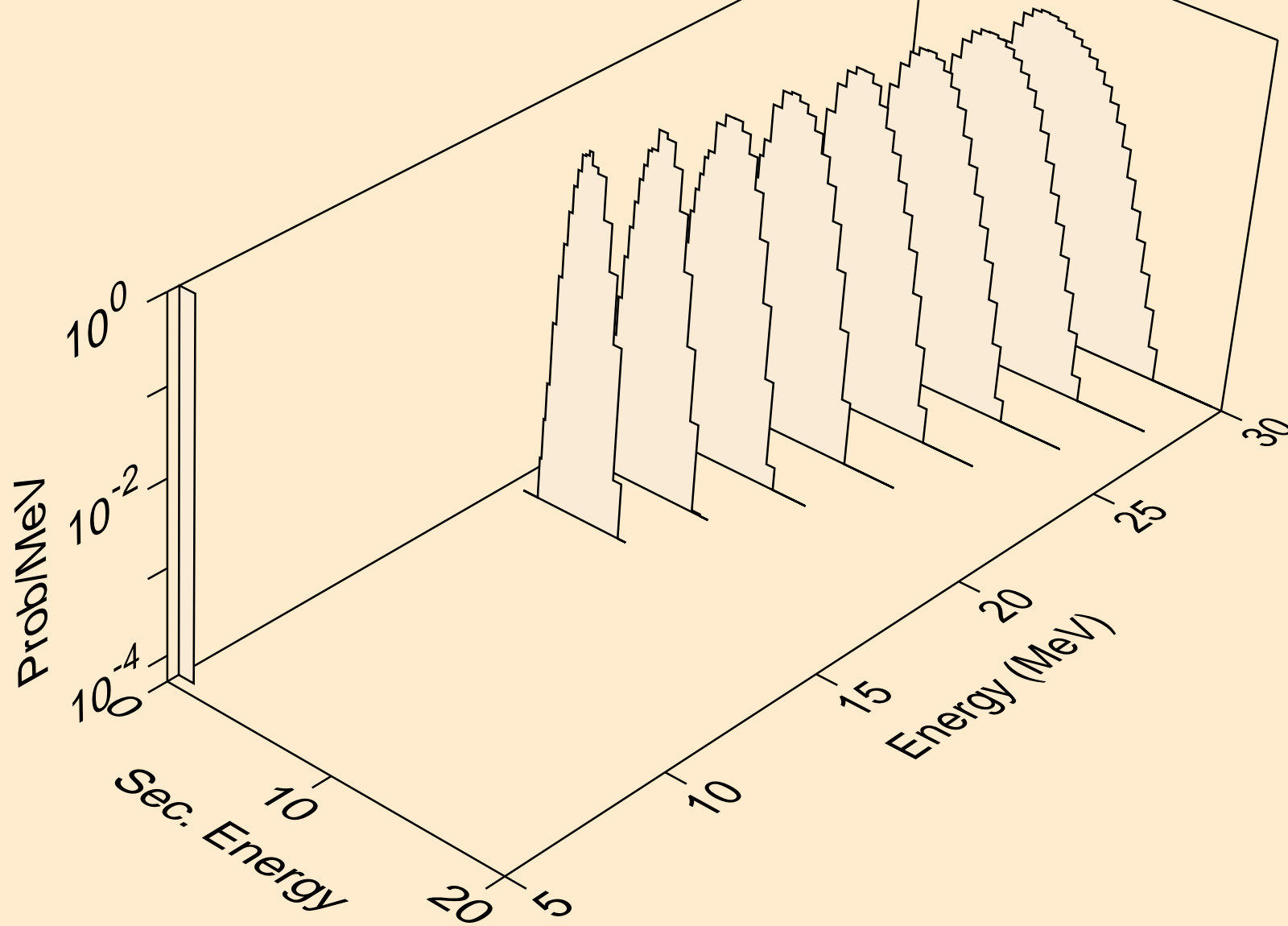
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deuterons from (p,d)



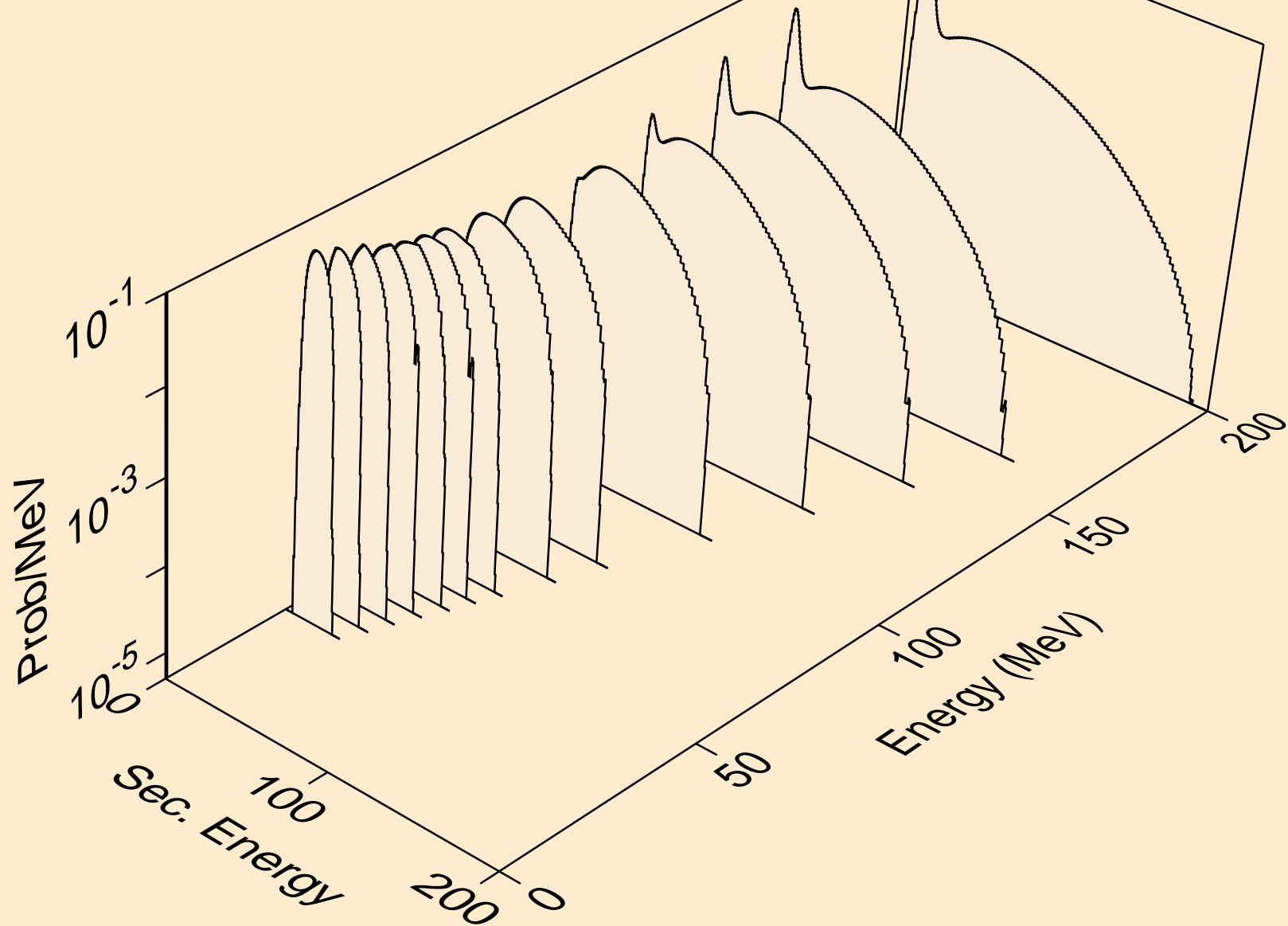
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deuterons from (p,pd)



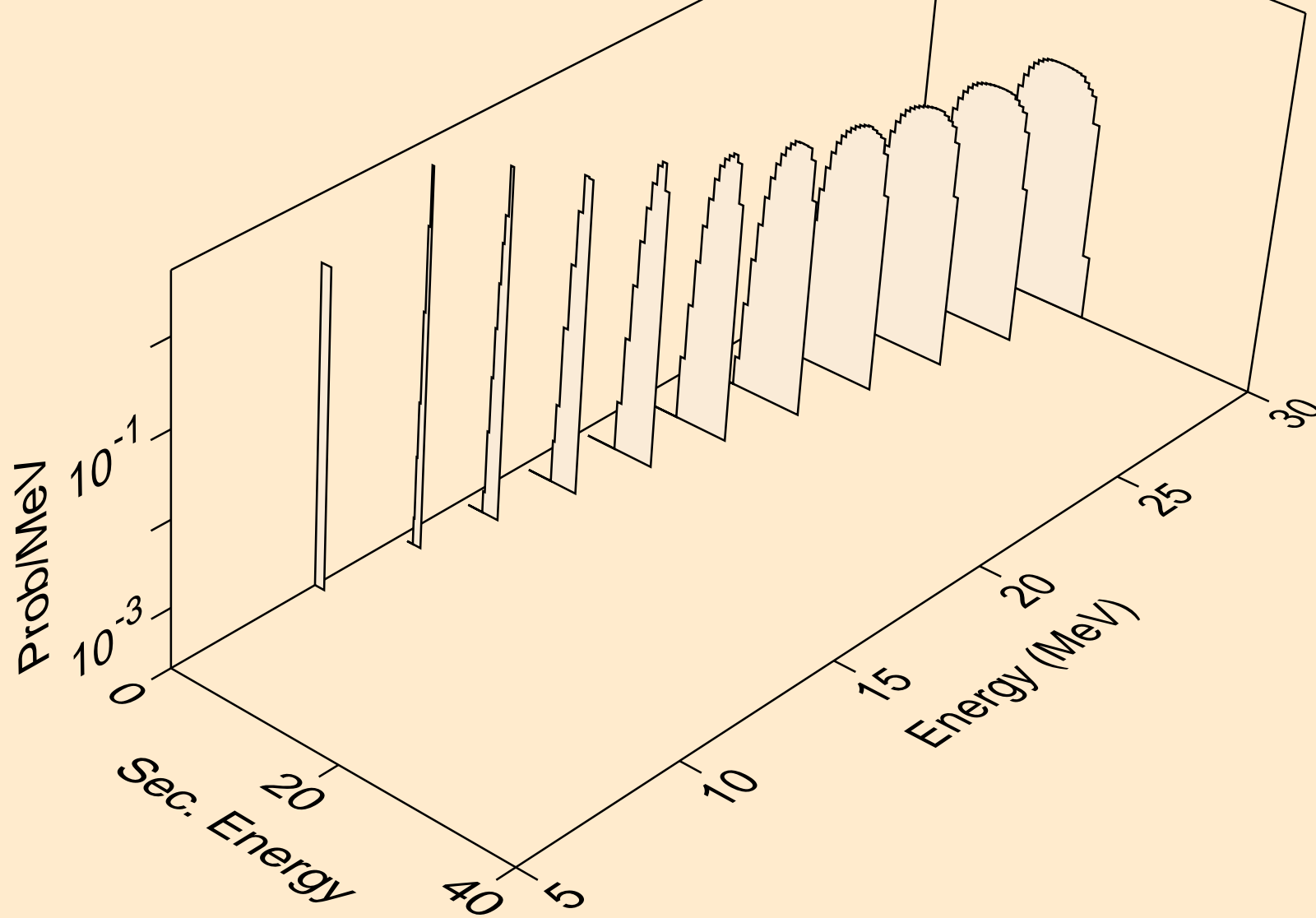
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deuterons from (p,da)



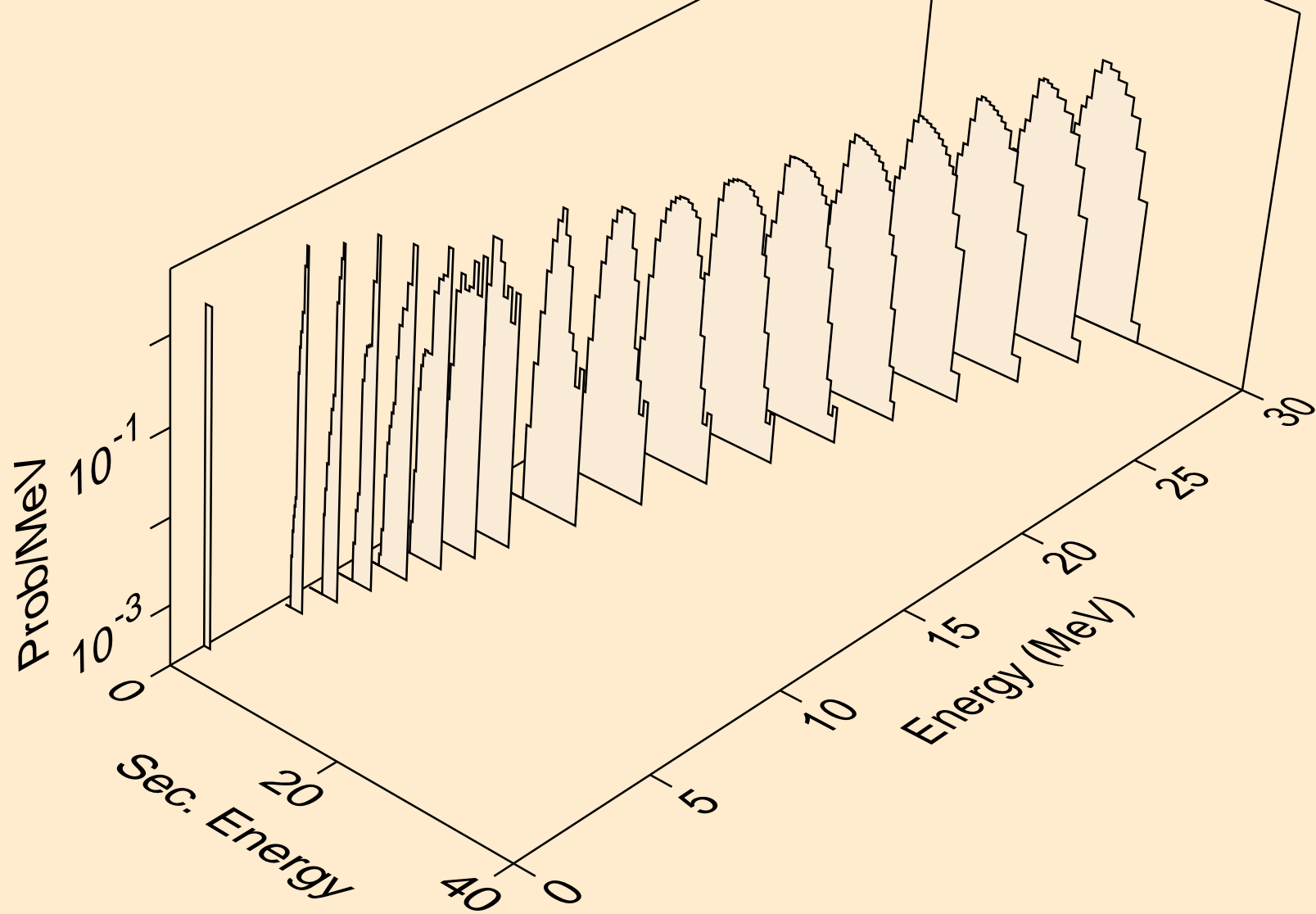
XE138 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
tritons from (p,x)



XE138 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
tritons from (p,n\*)t

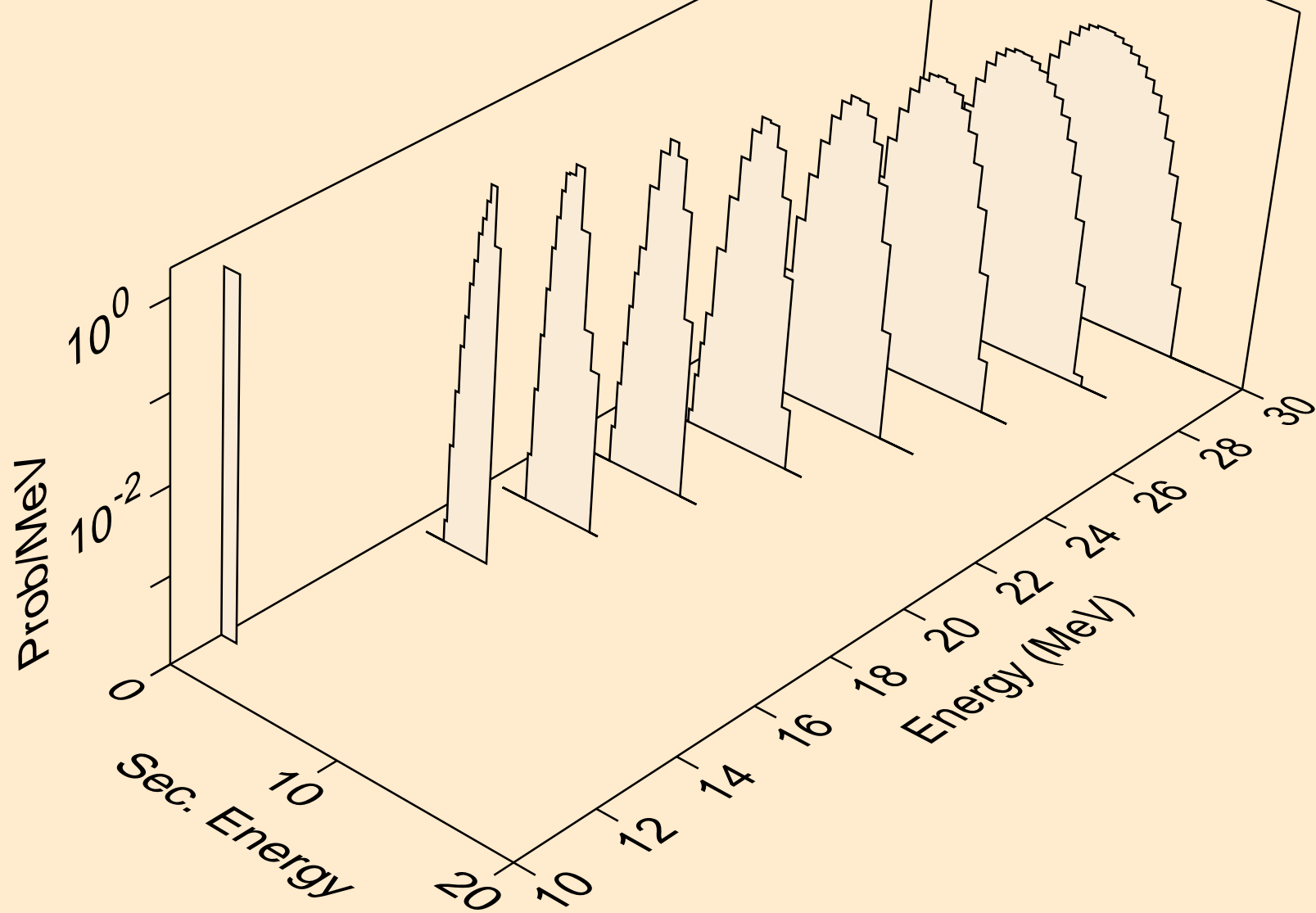


XE138 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
tritons from (p,t)

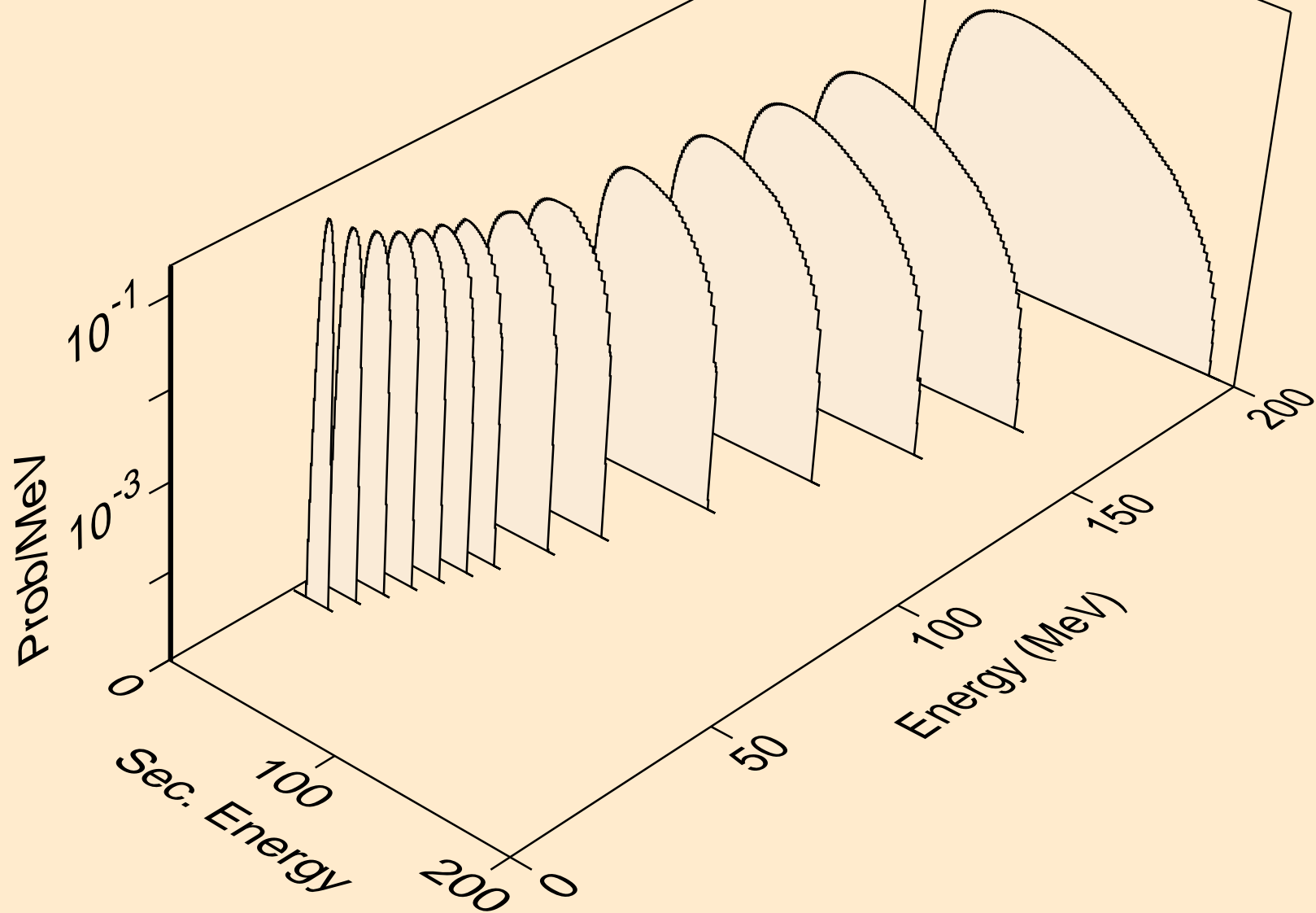




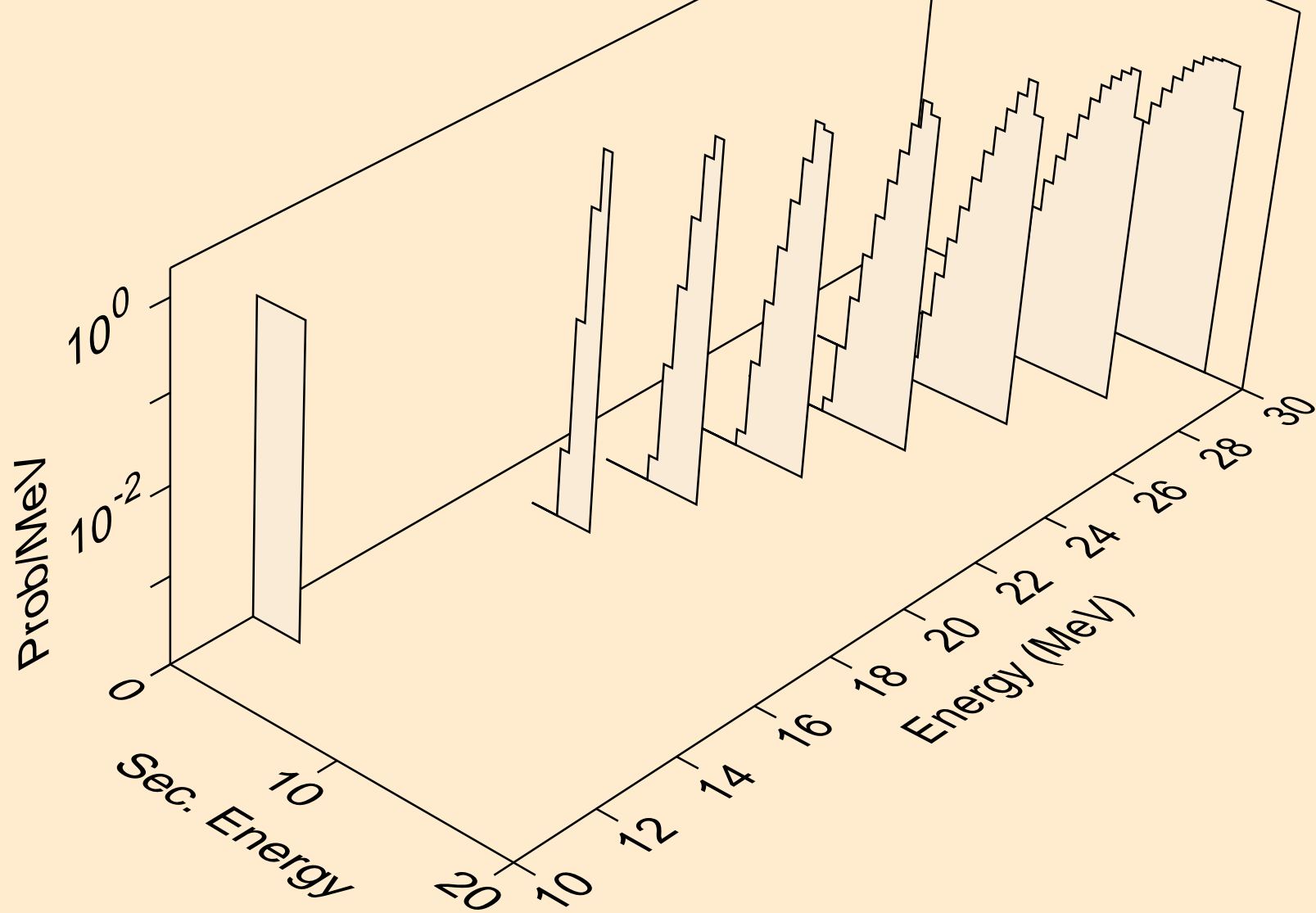
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tritons from (p,pt)



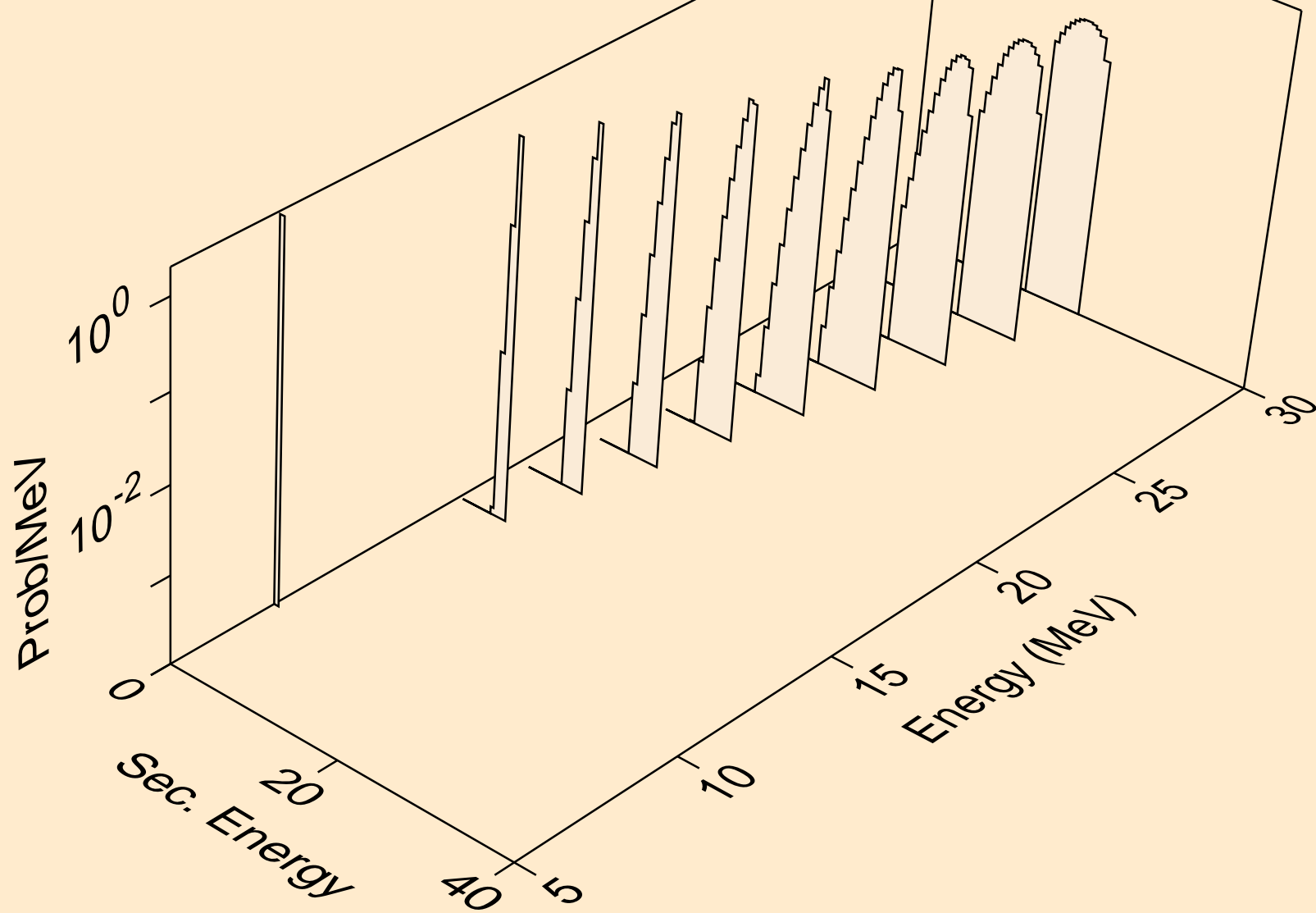
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he3s from (p,x)



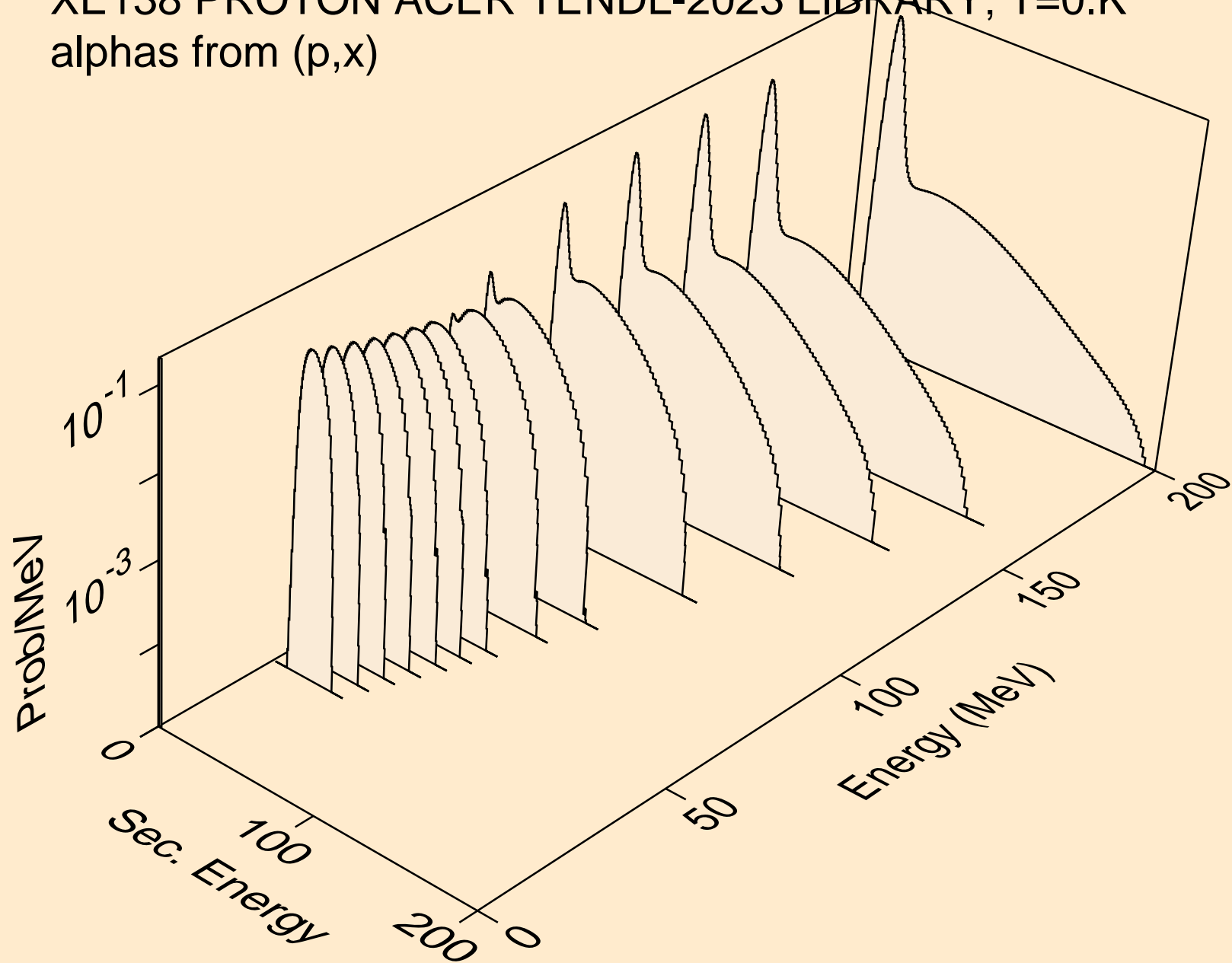
XE138 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
he3s from (p,n\*)he3



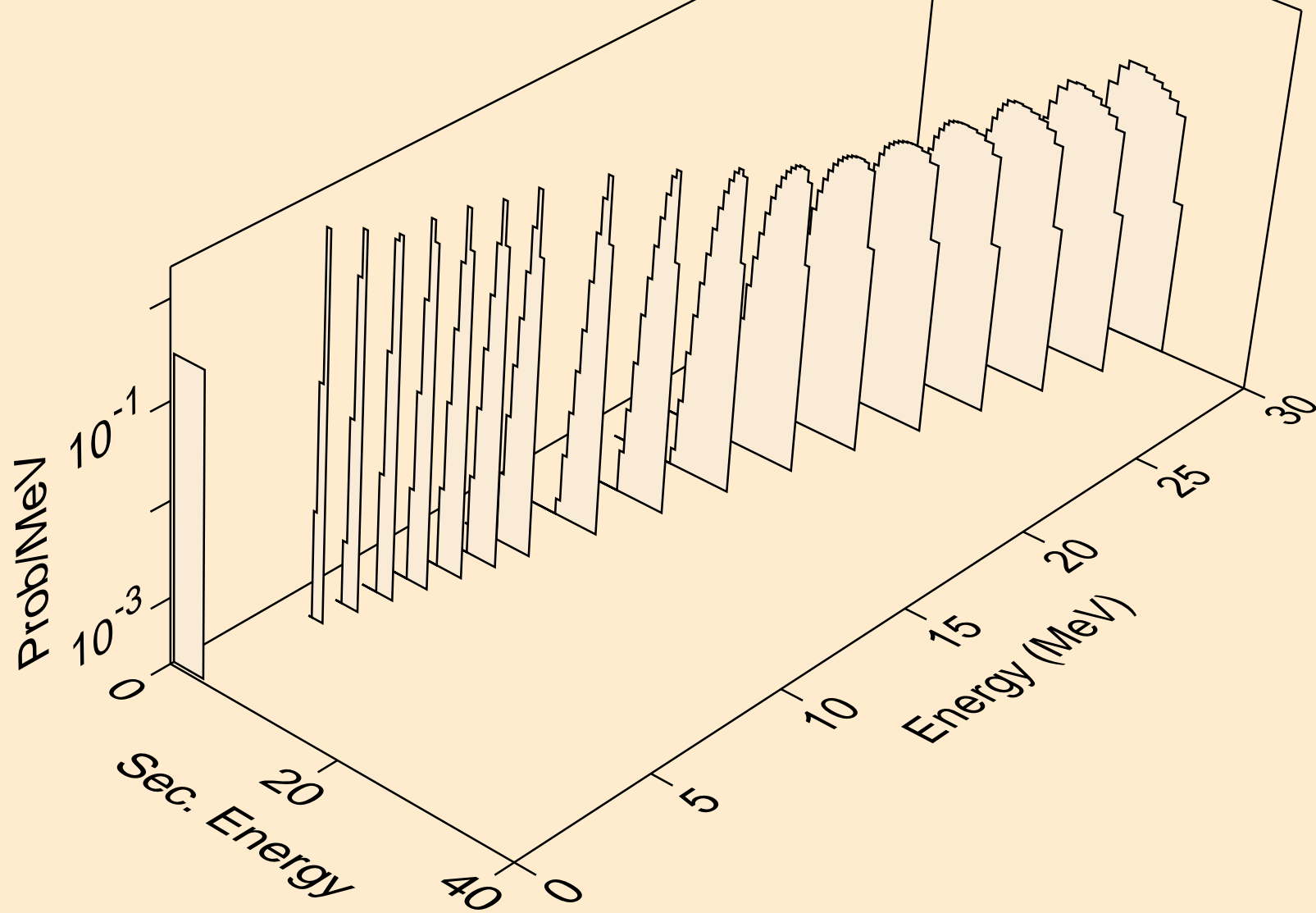
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he3s from (p,he3)



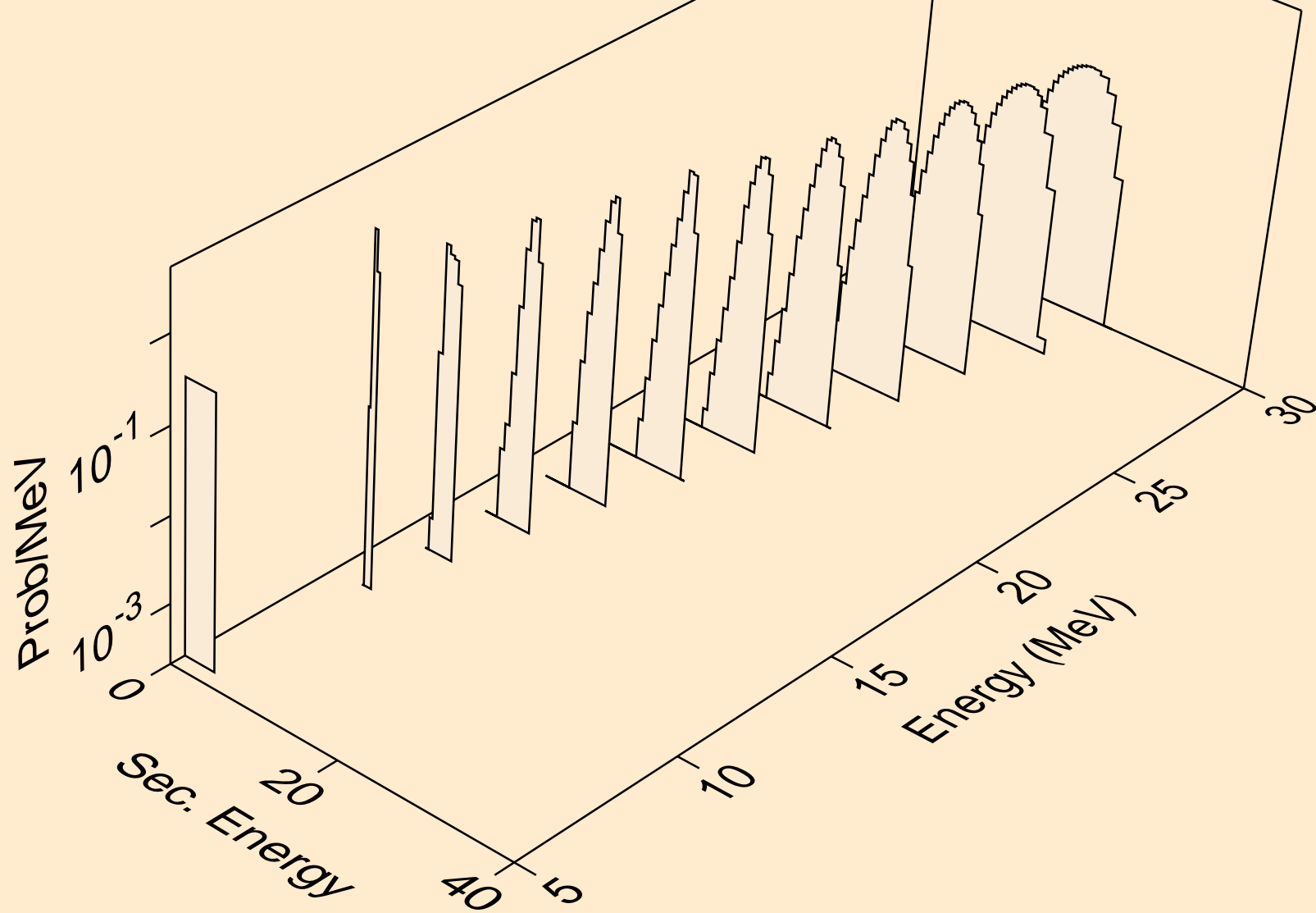
XE138 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (p,x)



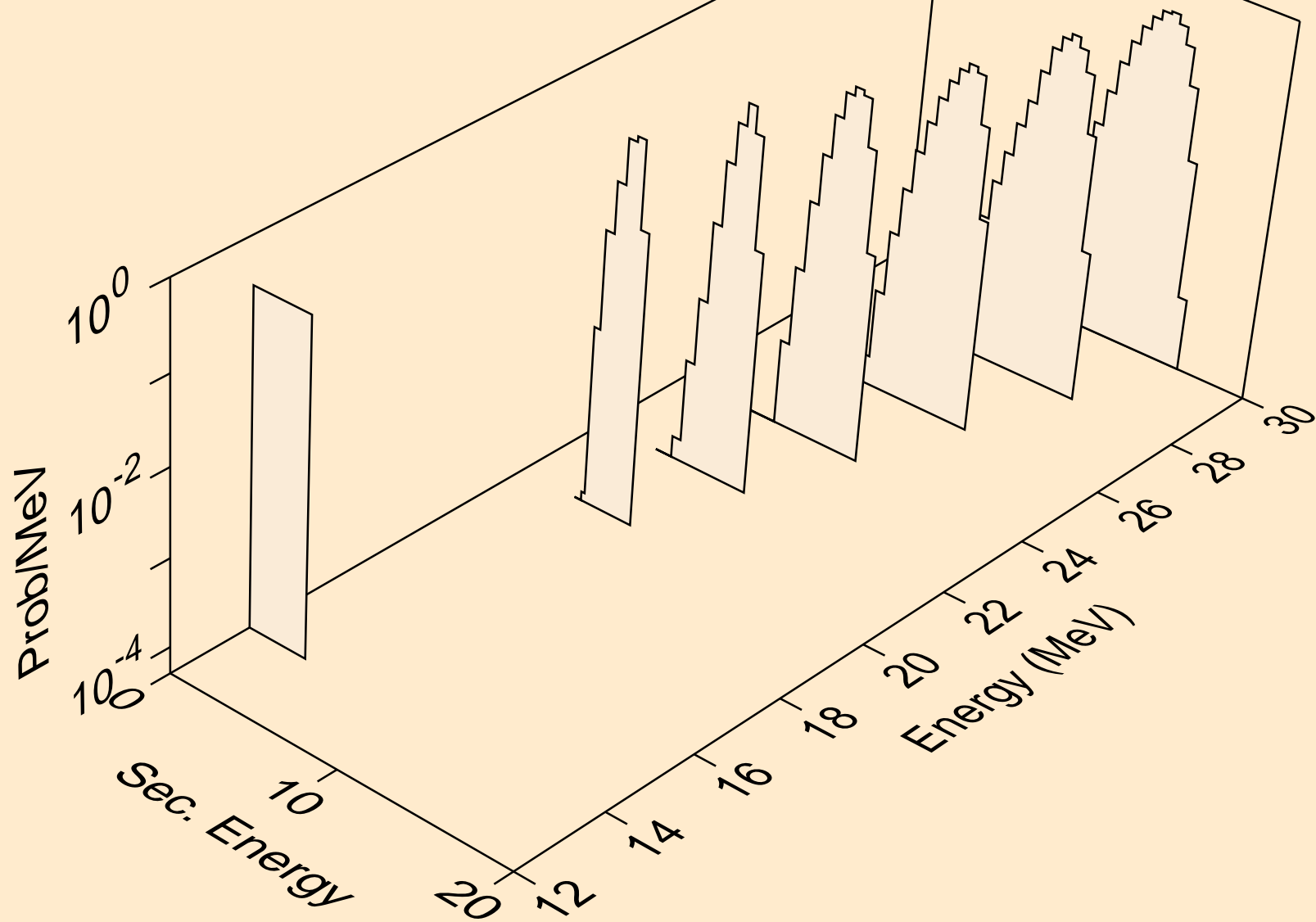
XE138 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (p,n\*)a



XE138 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (p,2n)a

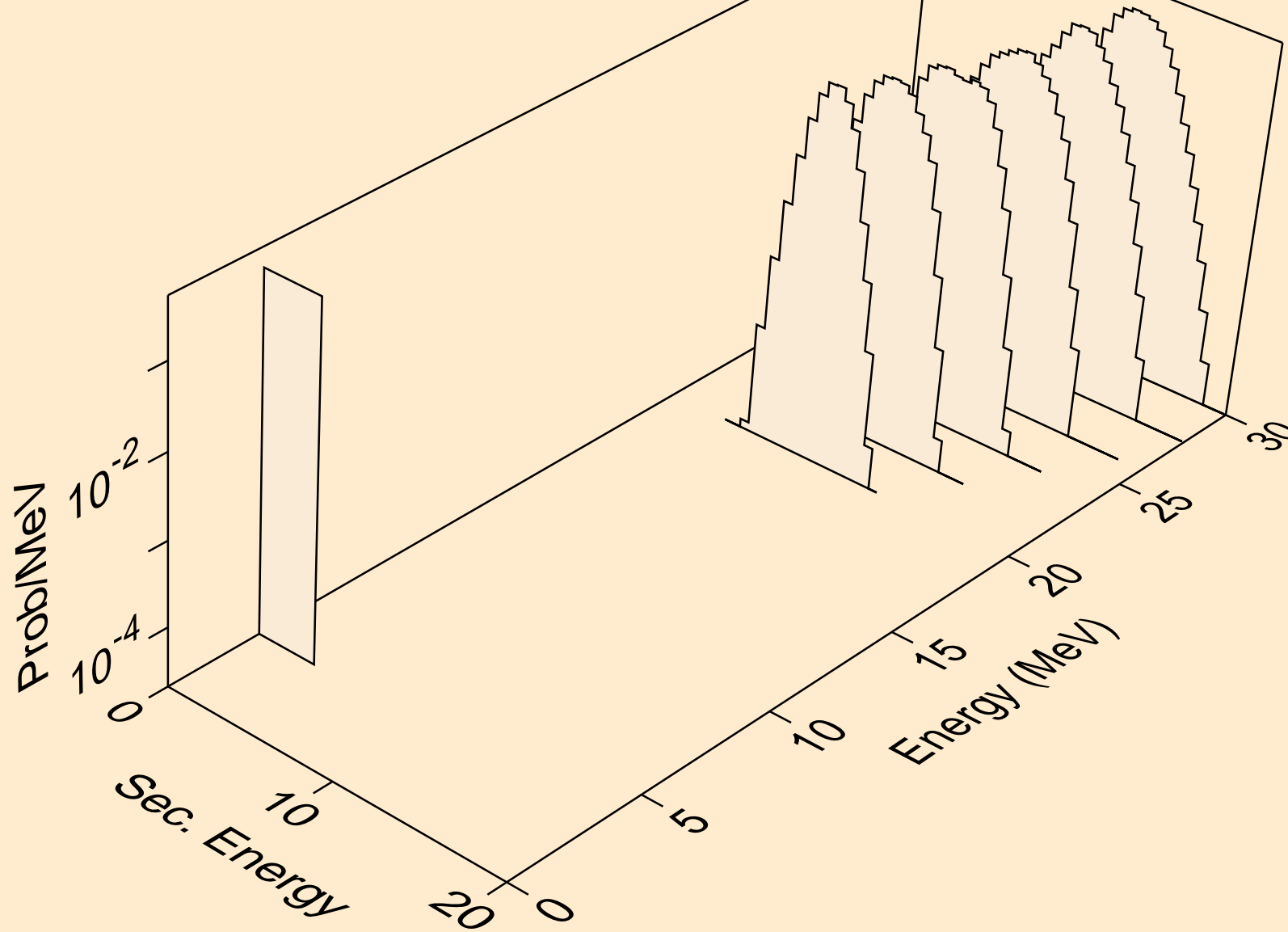


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alphas from (p,3n)a

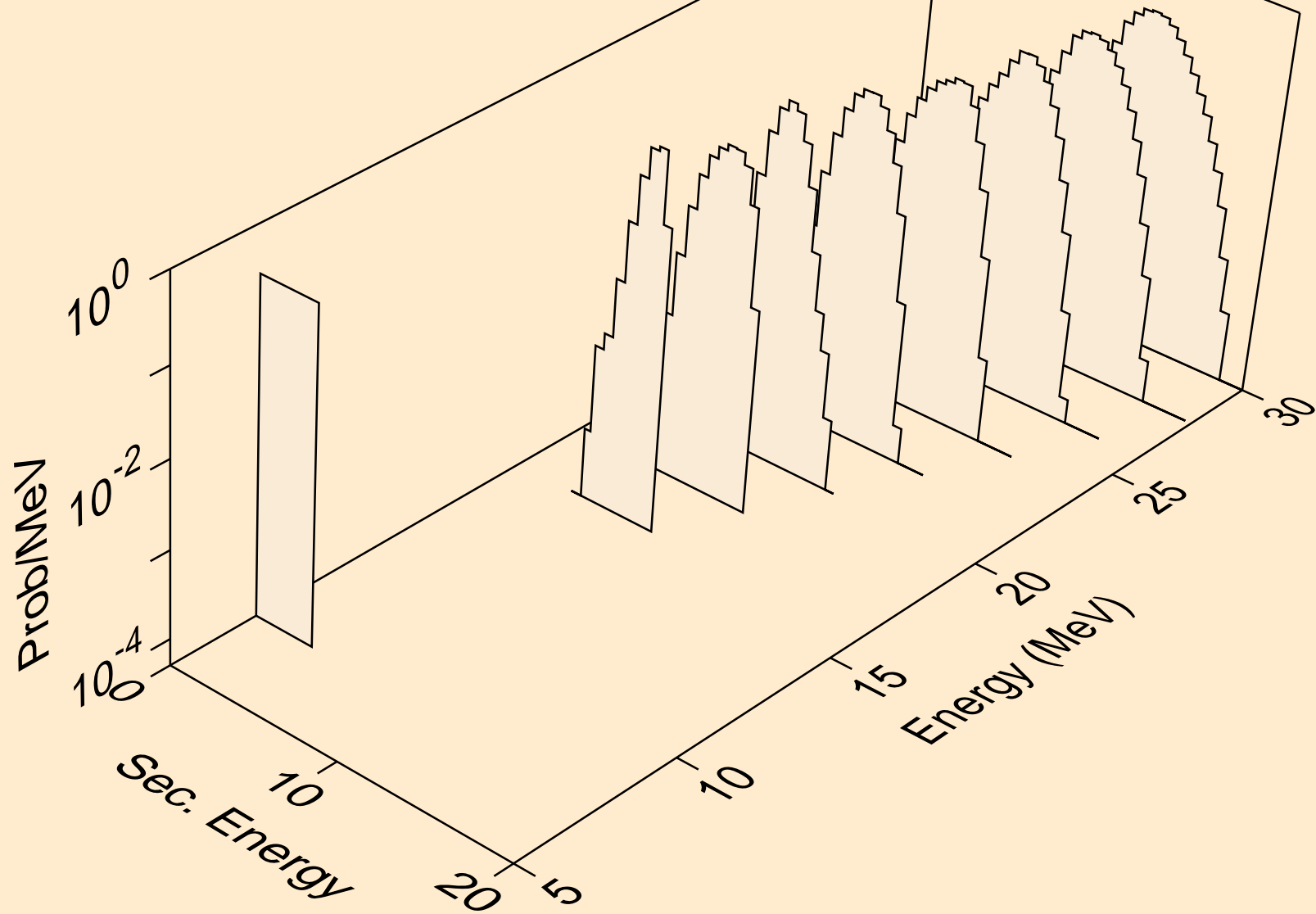




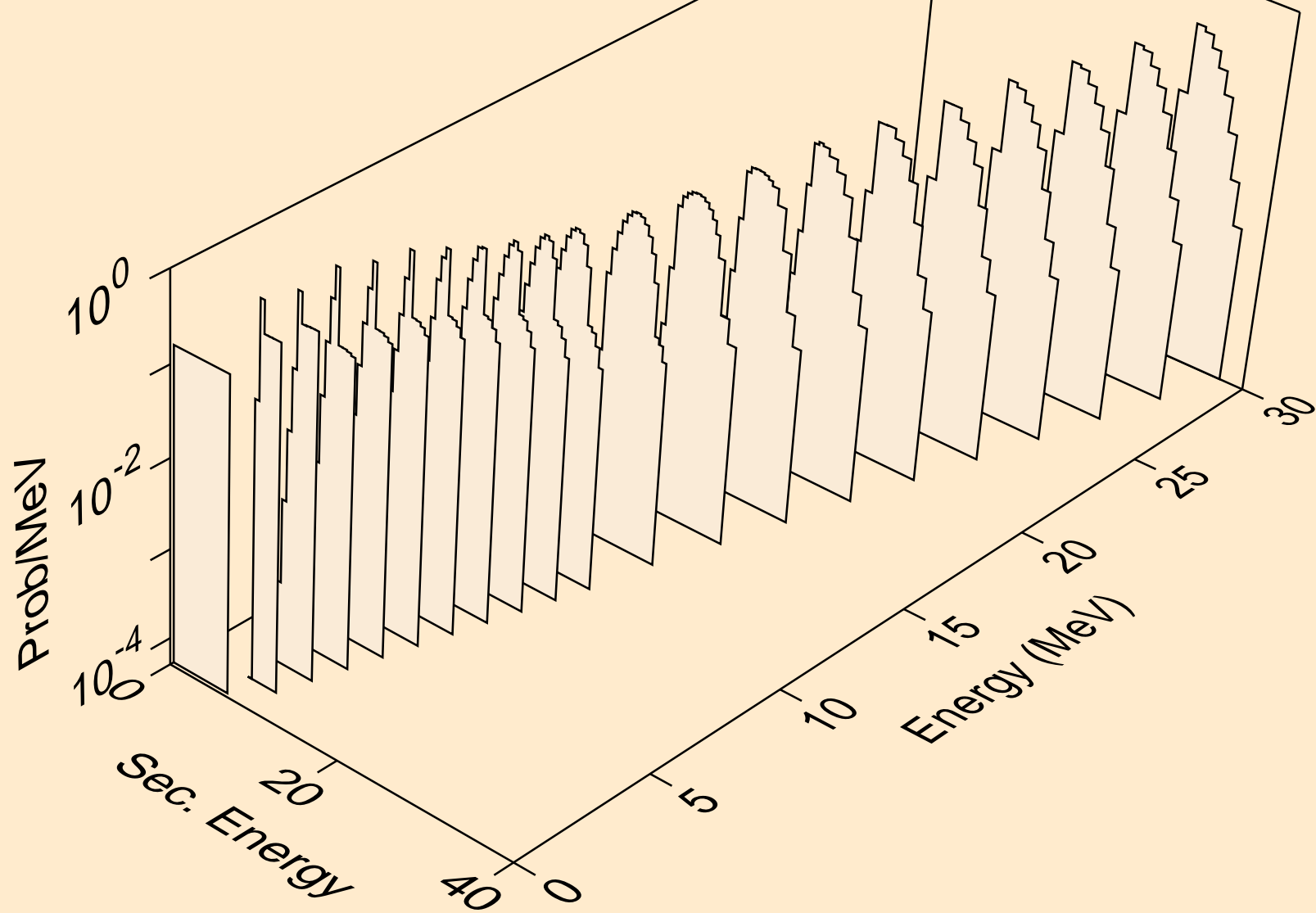
XE138 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (p,n\*)2a



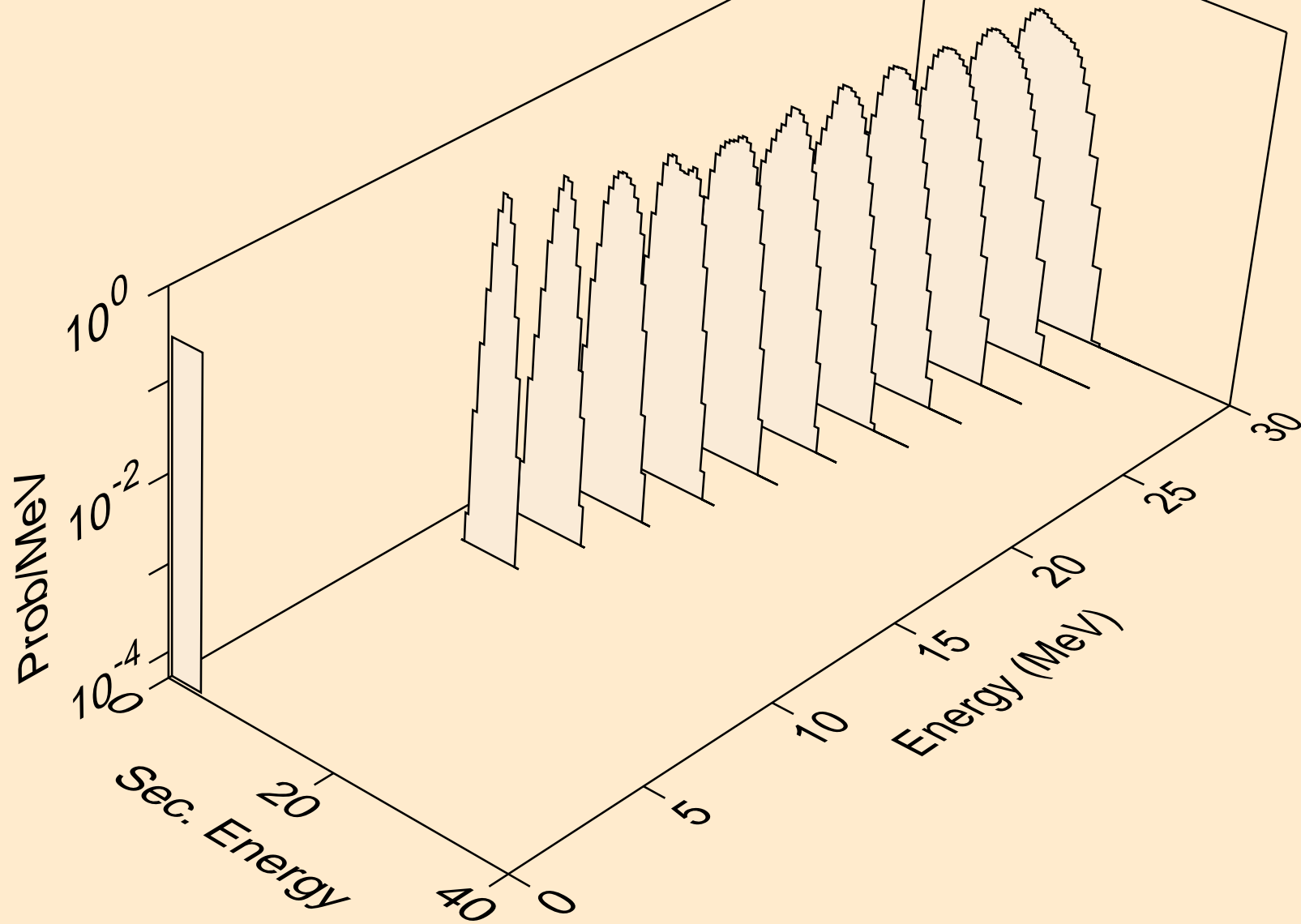
XE138 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (p,npa)



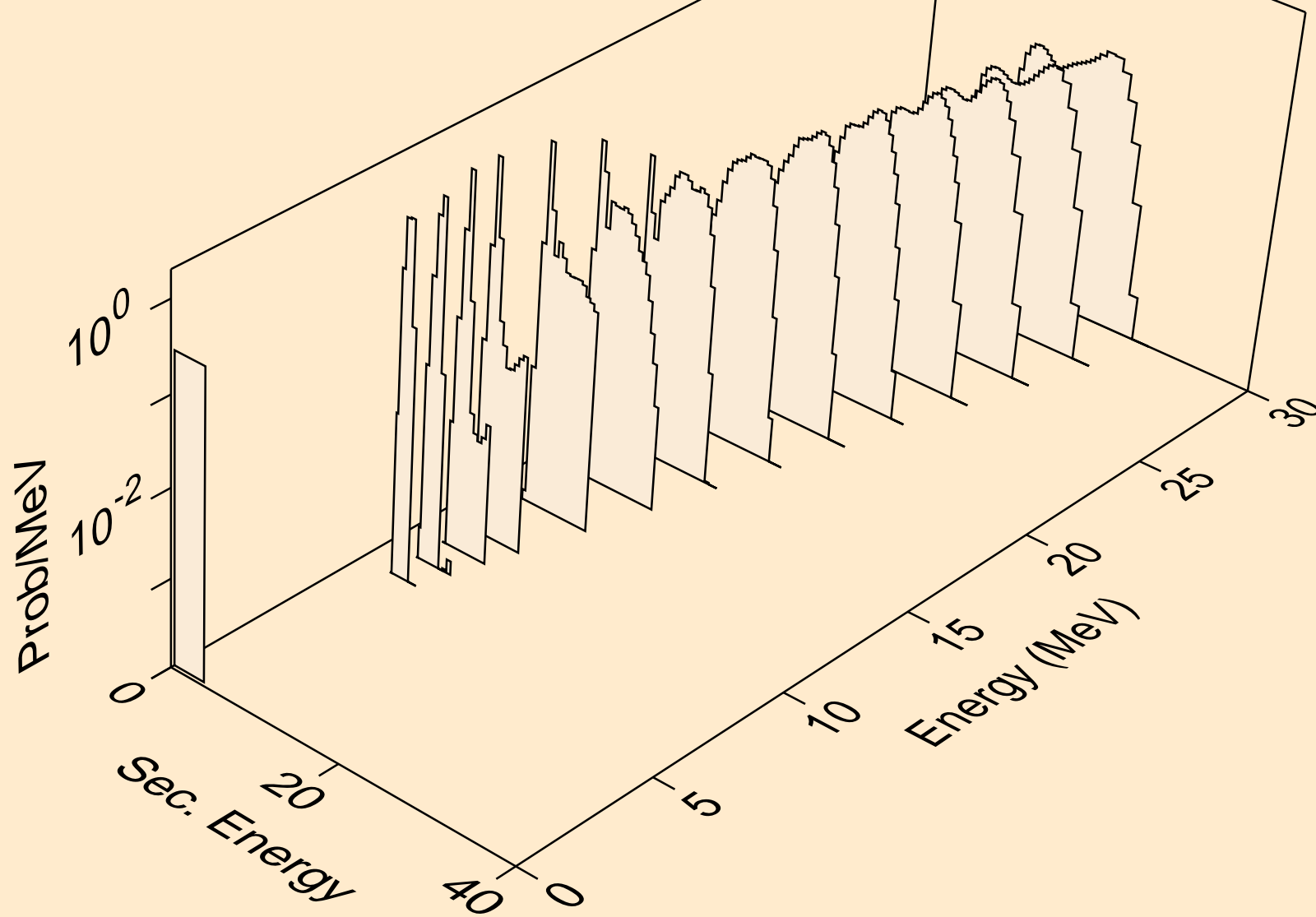
XE138 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (p,a)



XE138 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (p,2a)



XE138 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (p,pa)



XE138 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (p,da)

