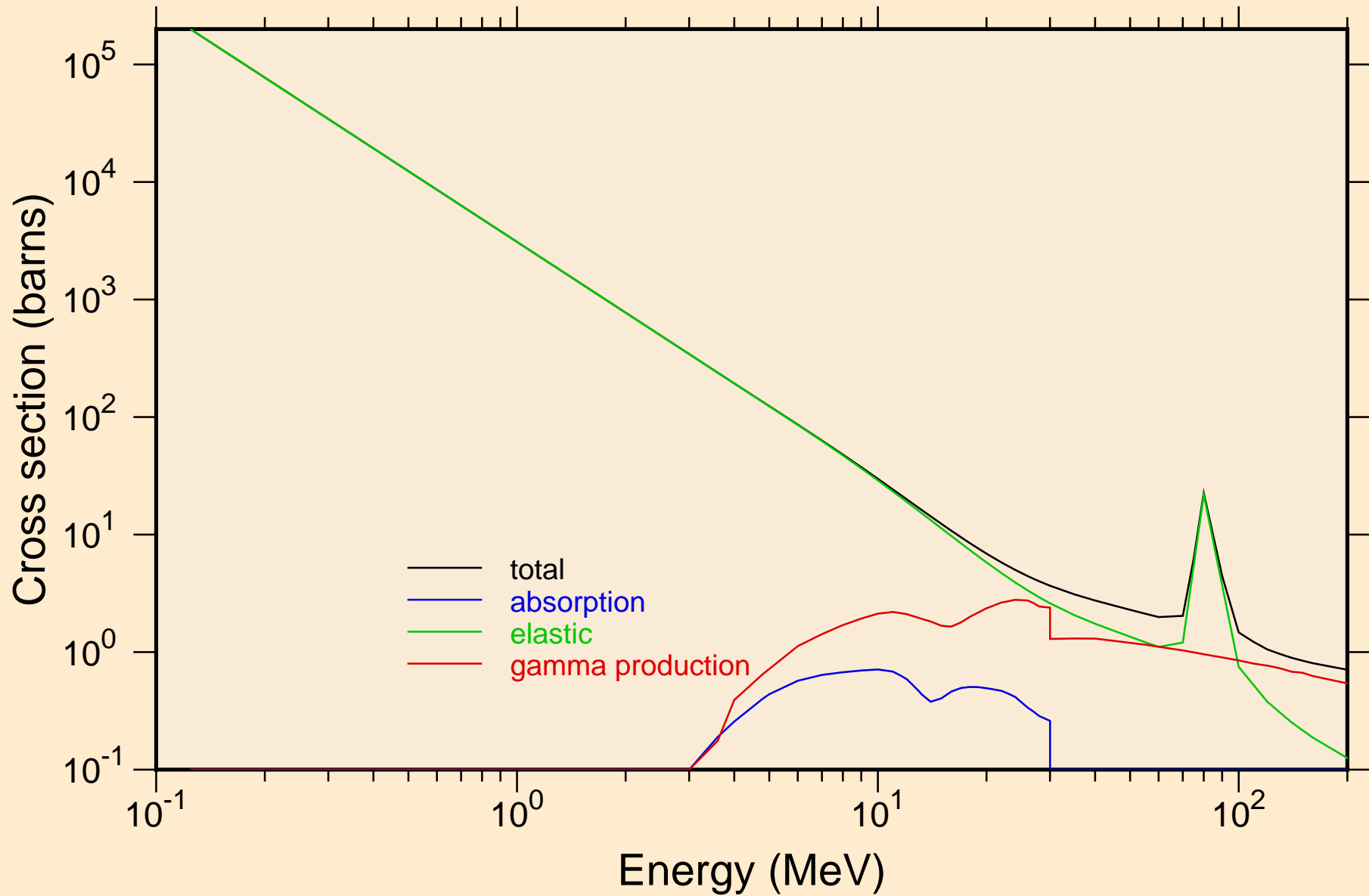
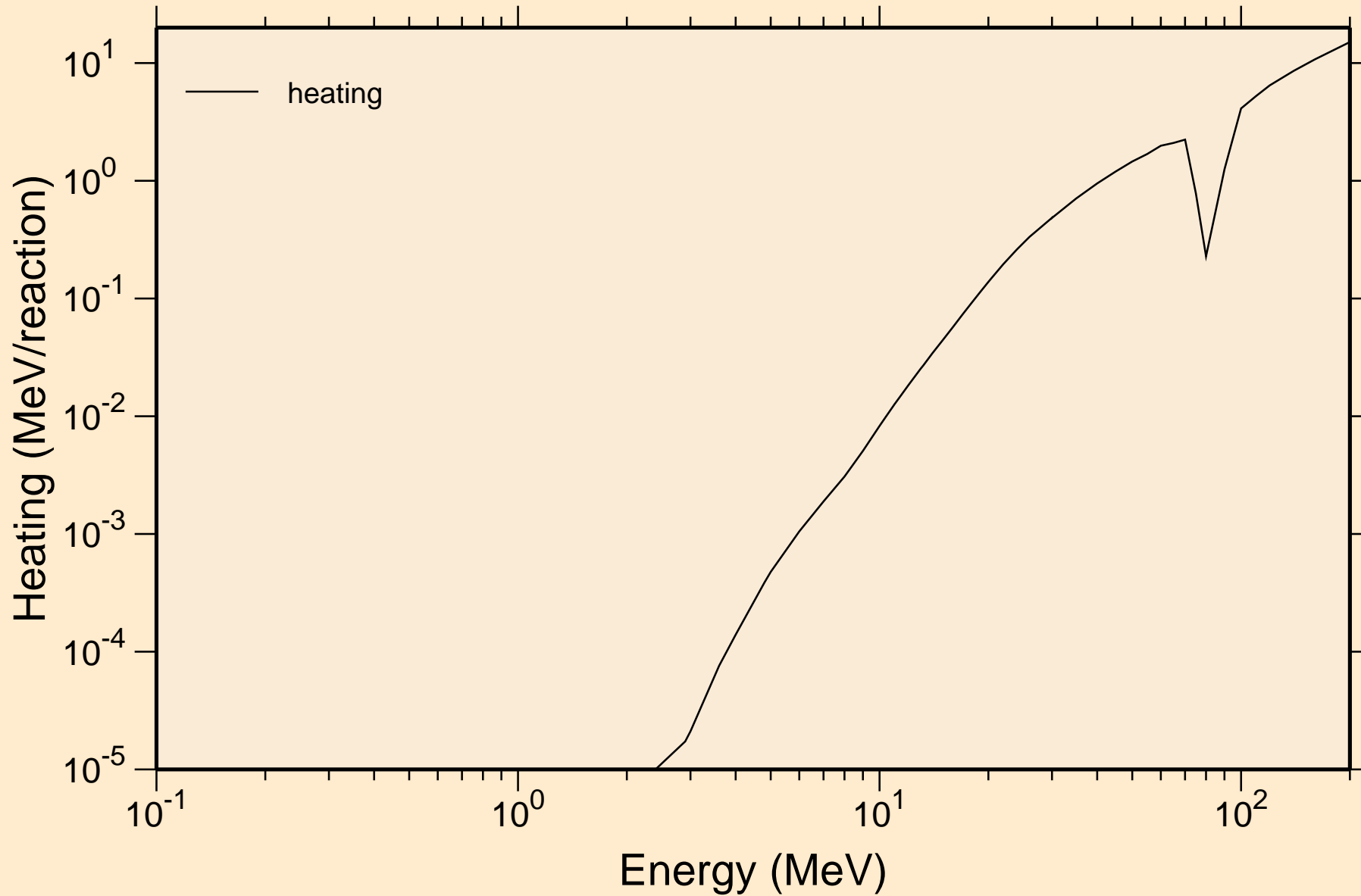


TI049 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Principal cross sections

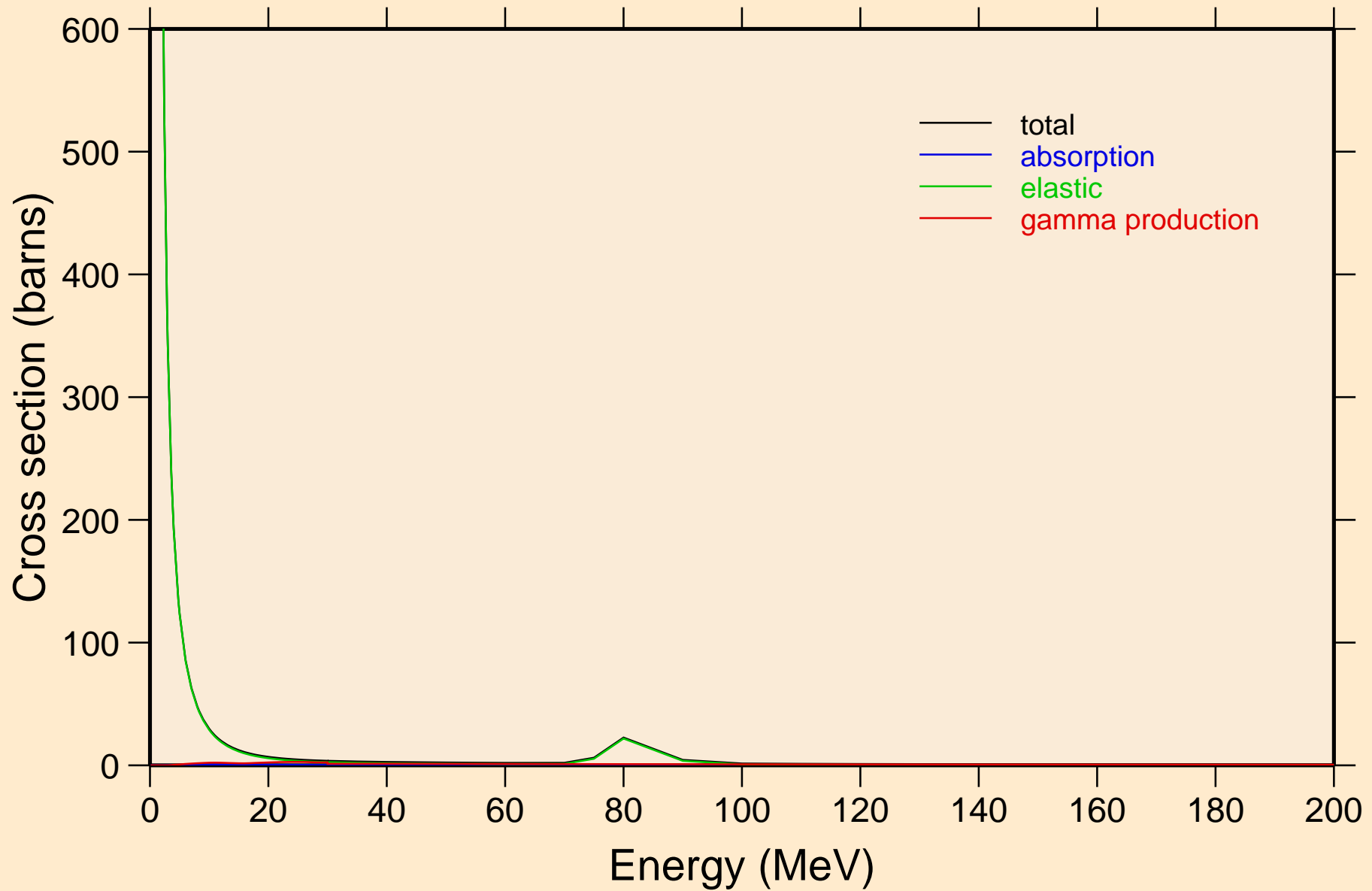


TI049 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Heating



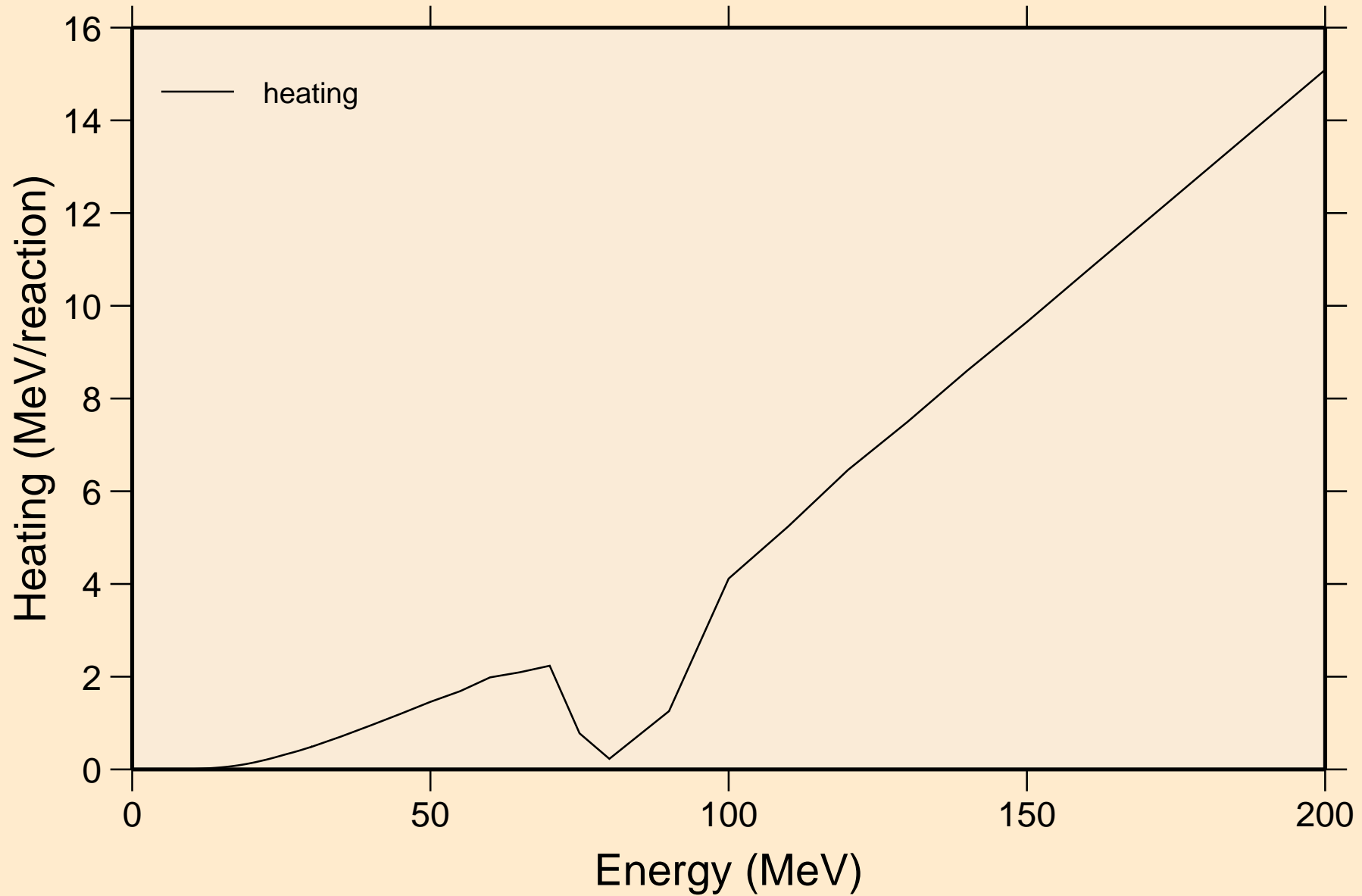
# TI049 PROTON ACER TENDL-2023 LIBRARY; T=0.K

## Principal cross sections

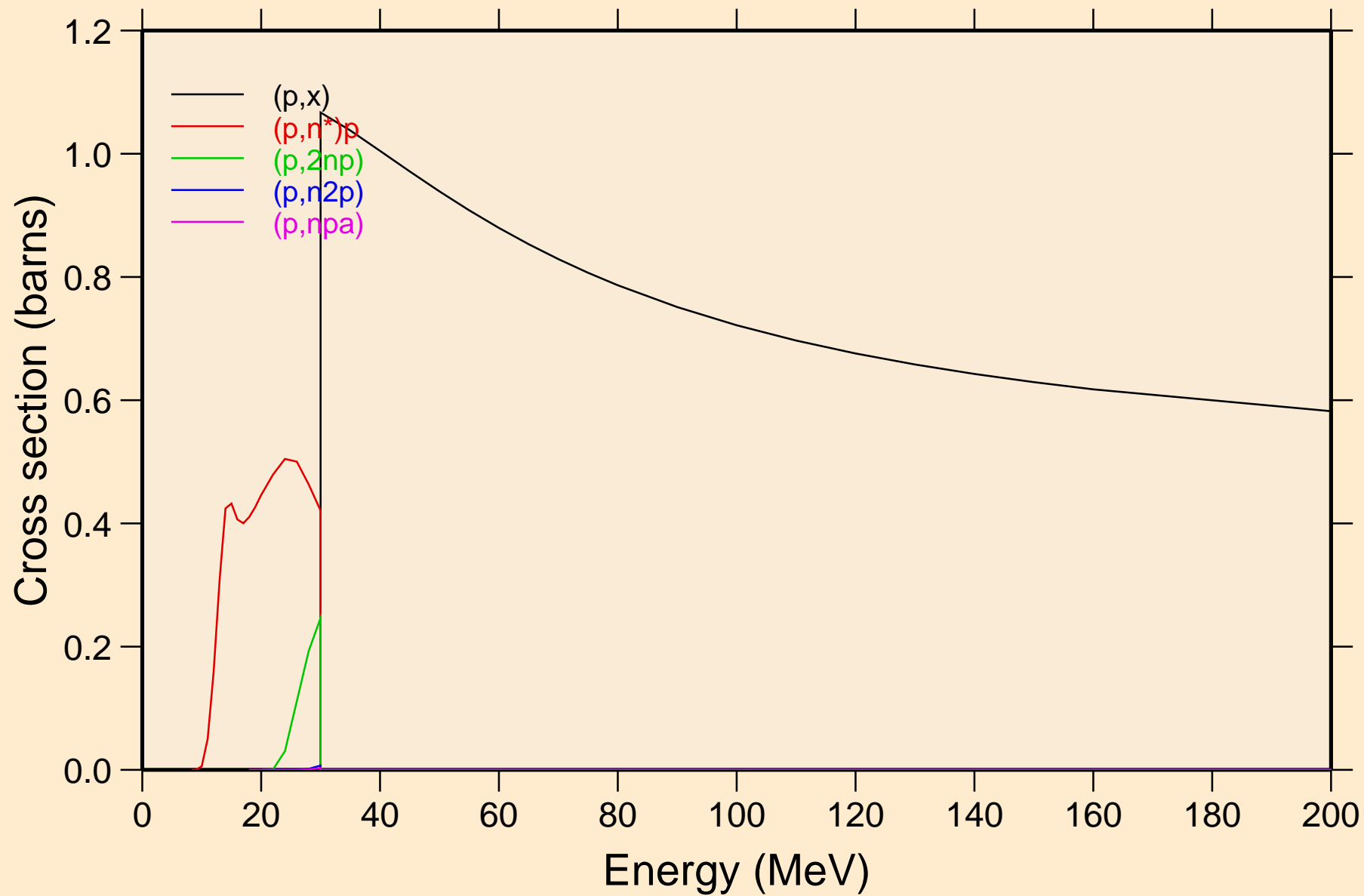


# TI049 PROTON ACER TENDL-2023 LIBRARY; T=0.K

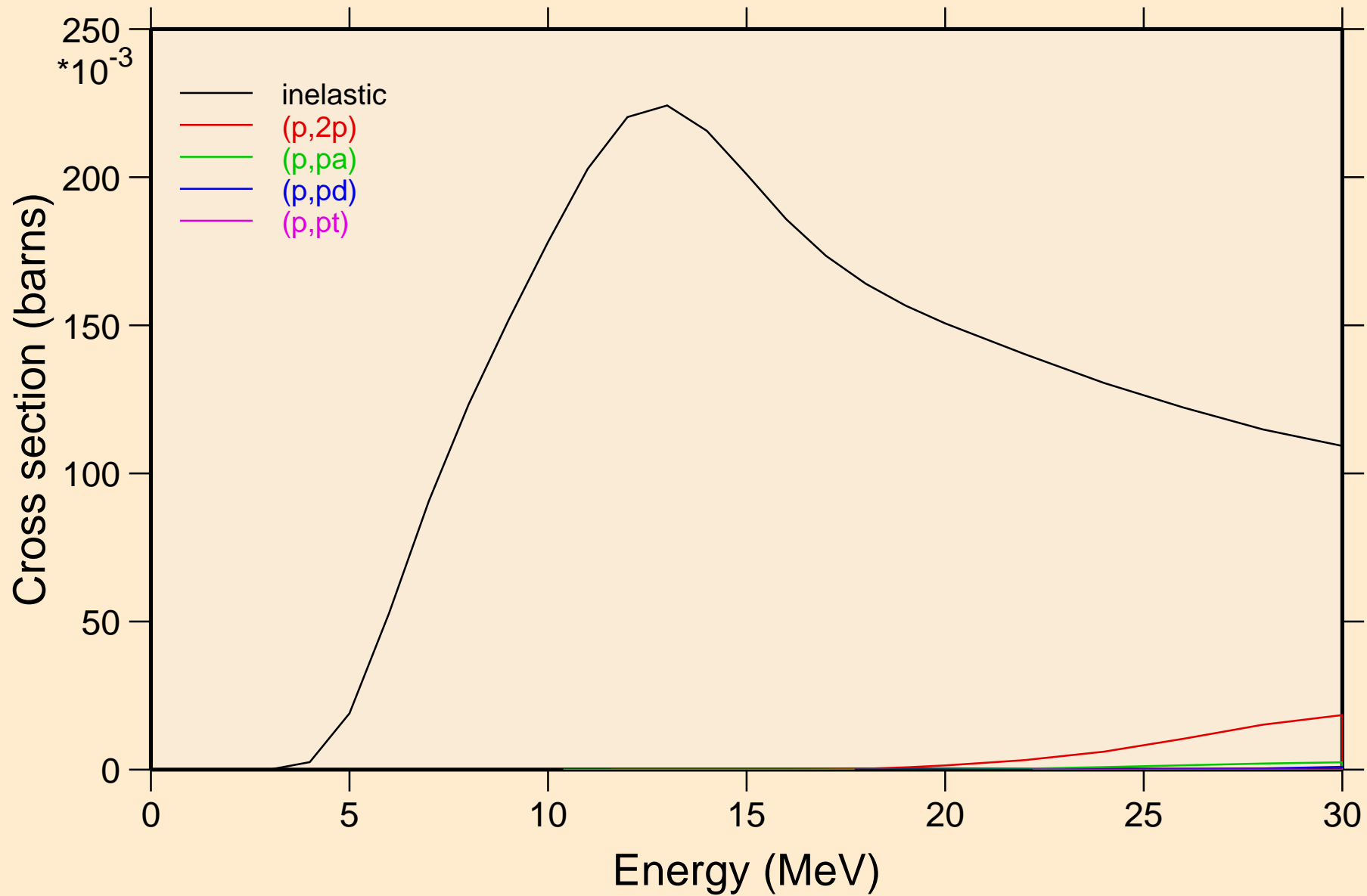
## Heating



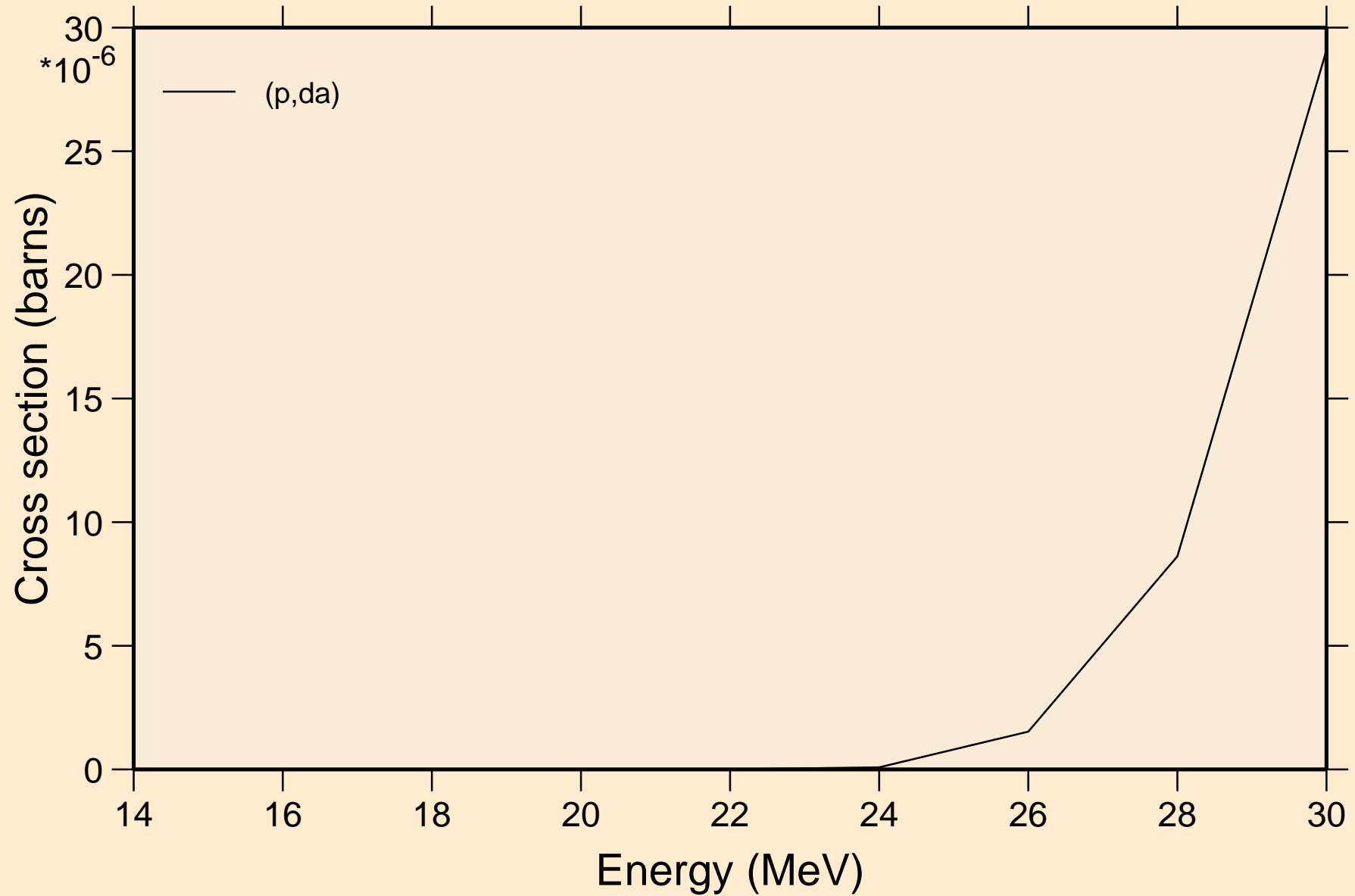
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Threshold reactions



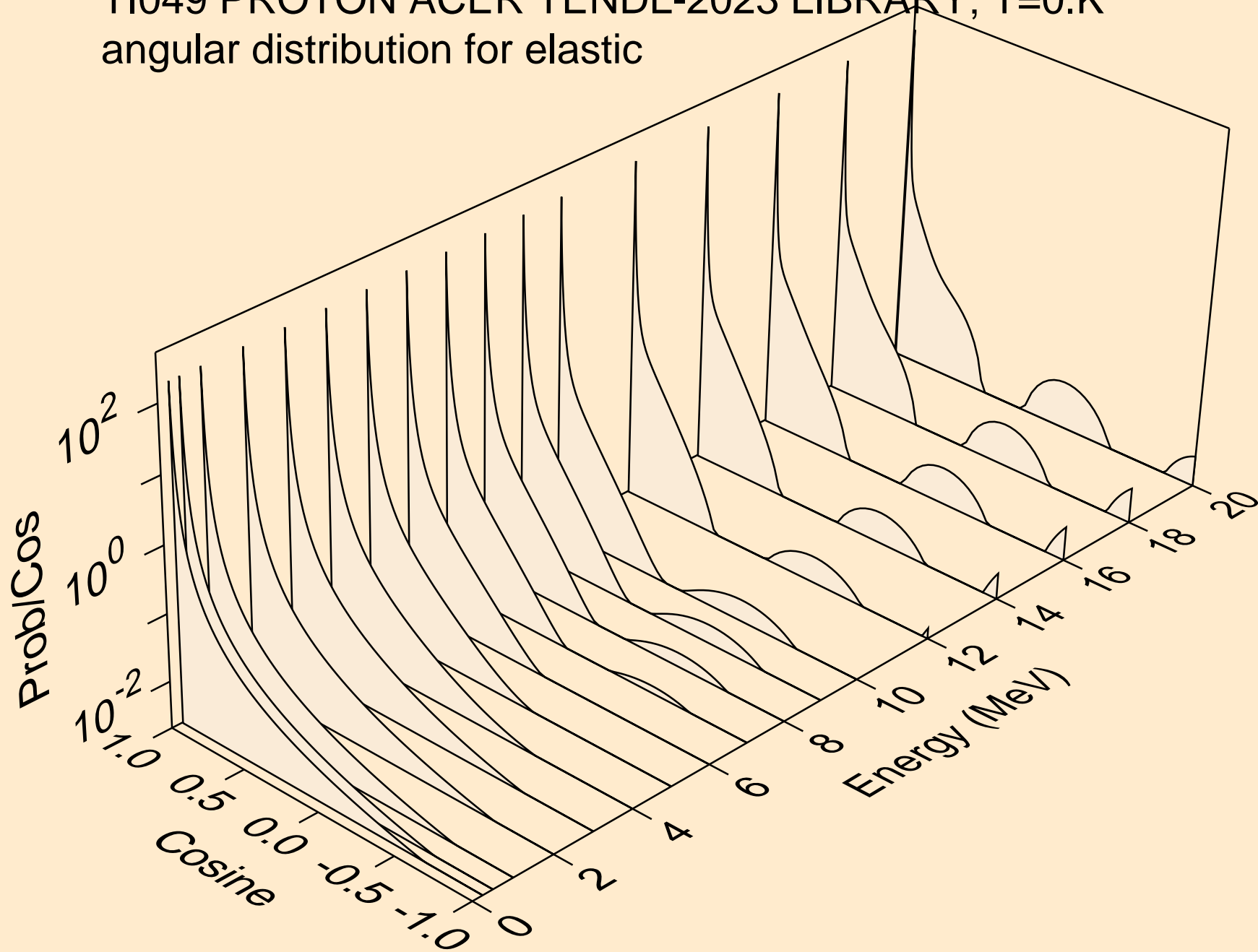
TI049 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Threshold reactions



TI049 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Threshold reactions

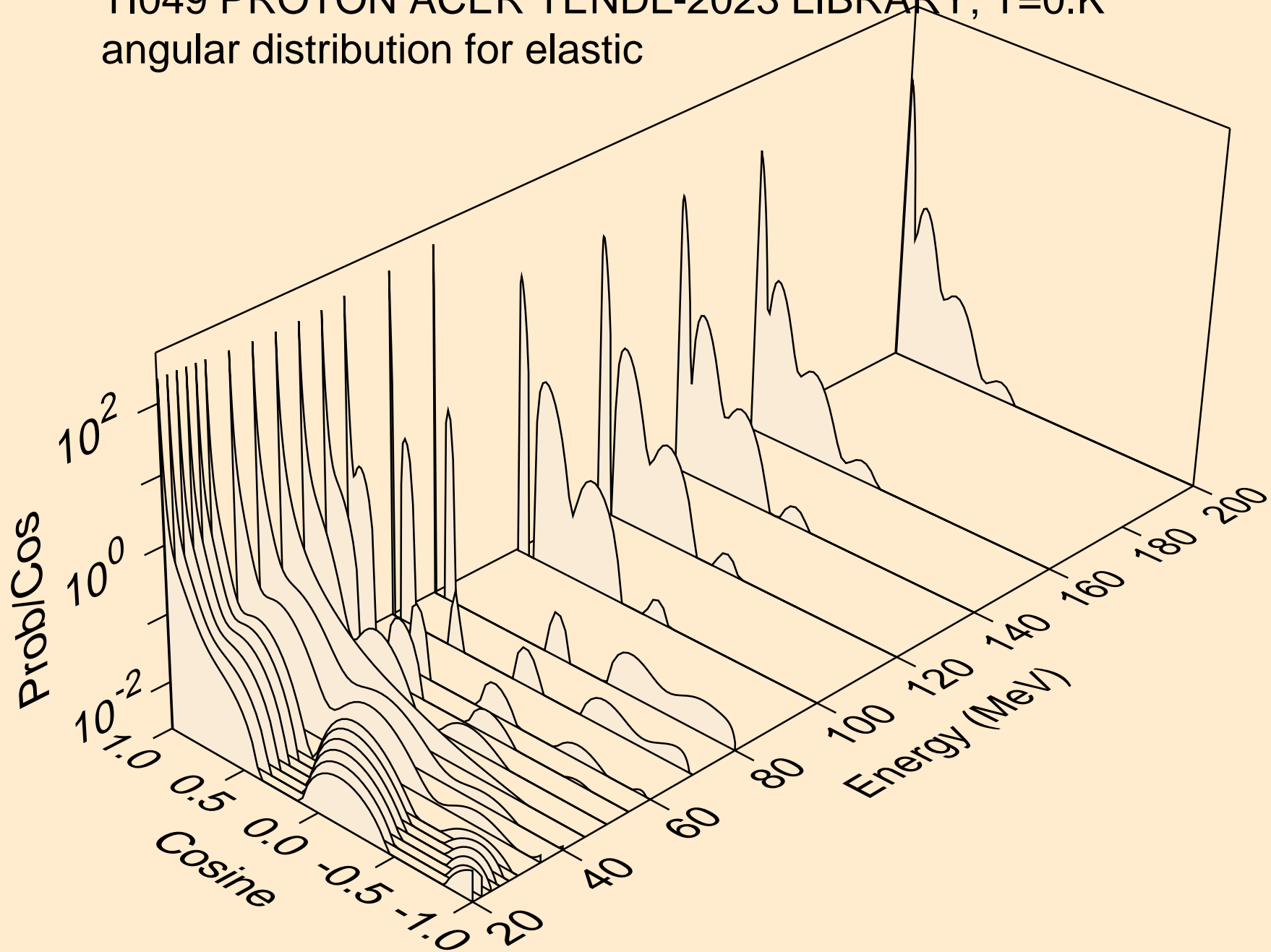


TI049 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for elastic

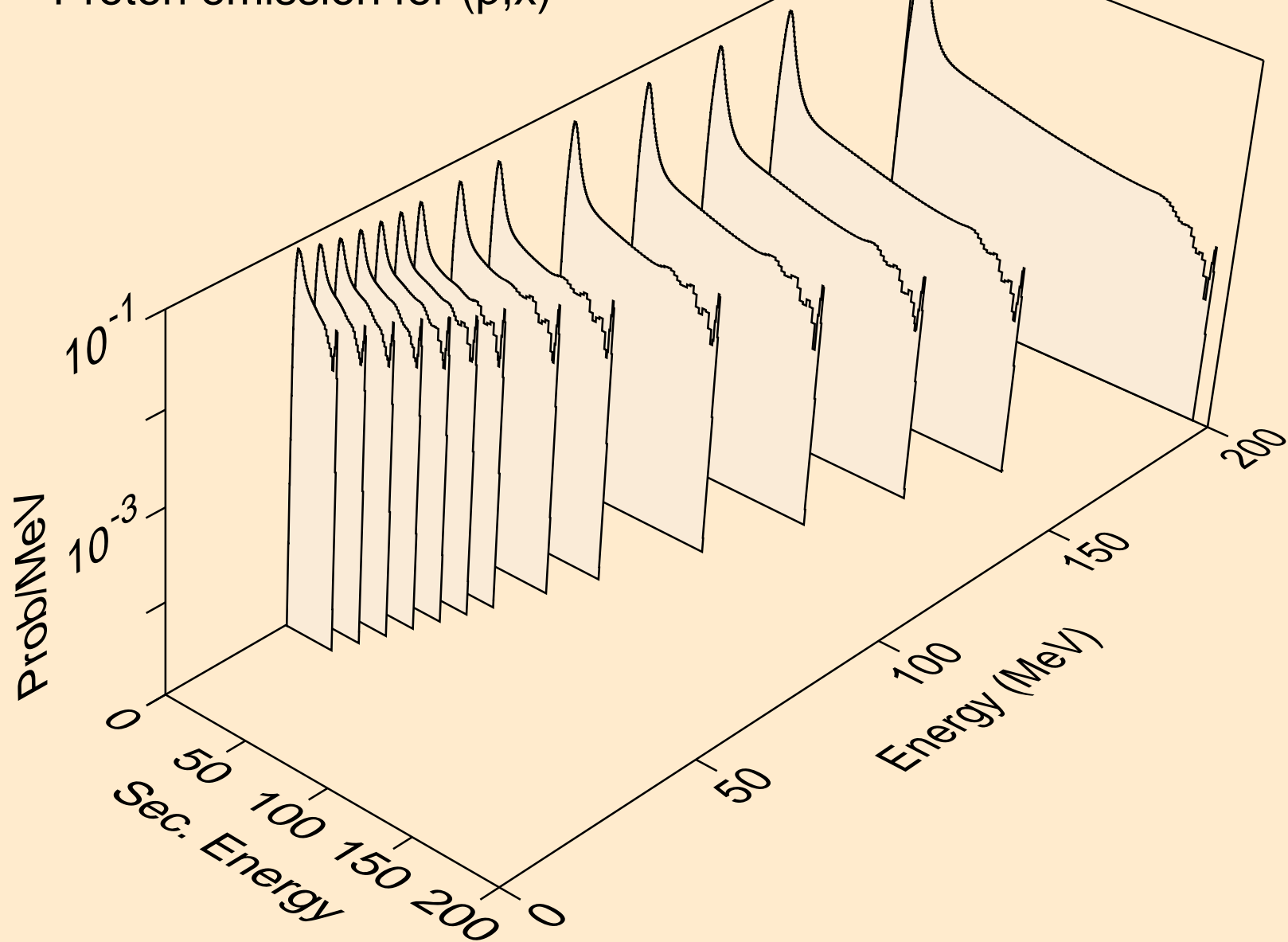




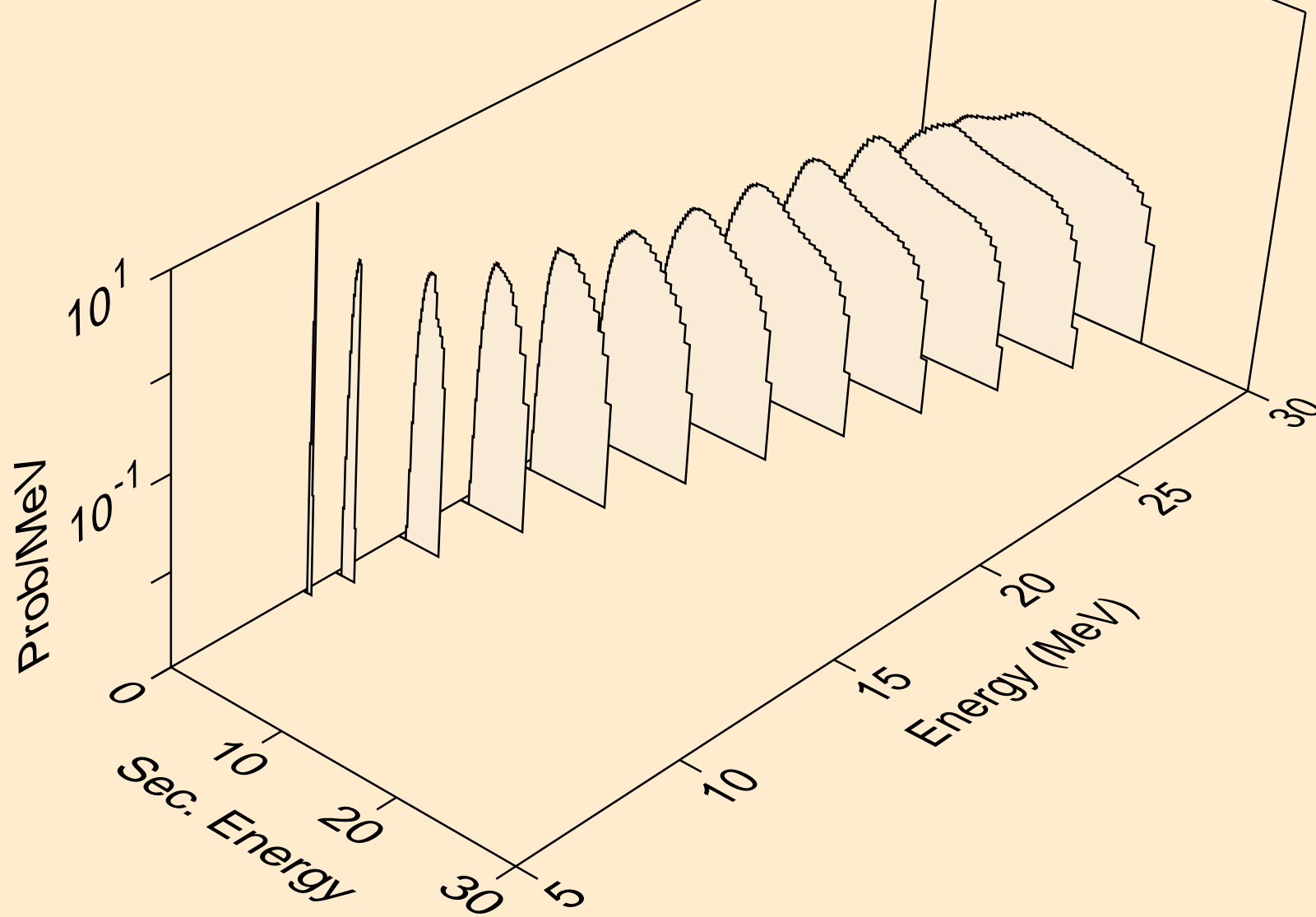
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angular distribution for elastic



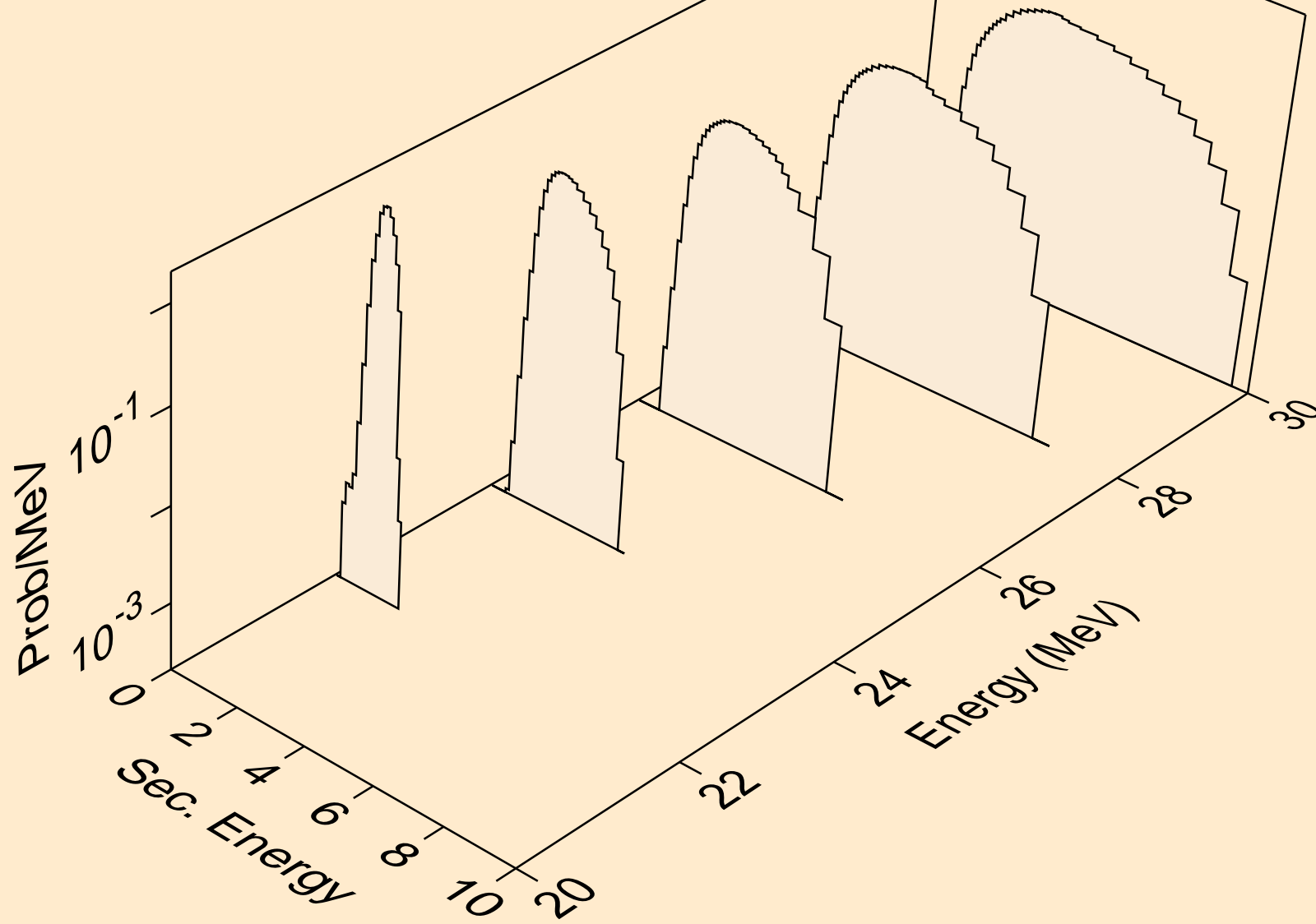
TI049 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Proton emission for (p,x)



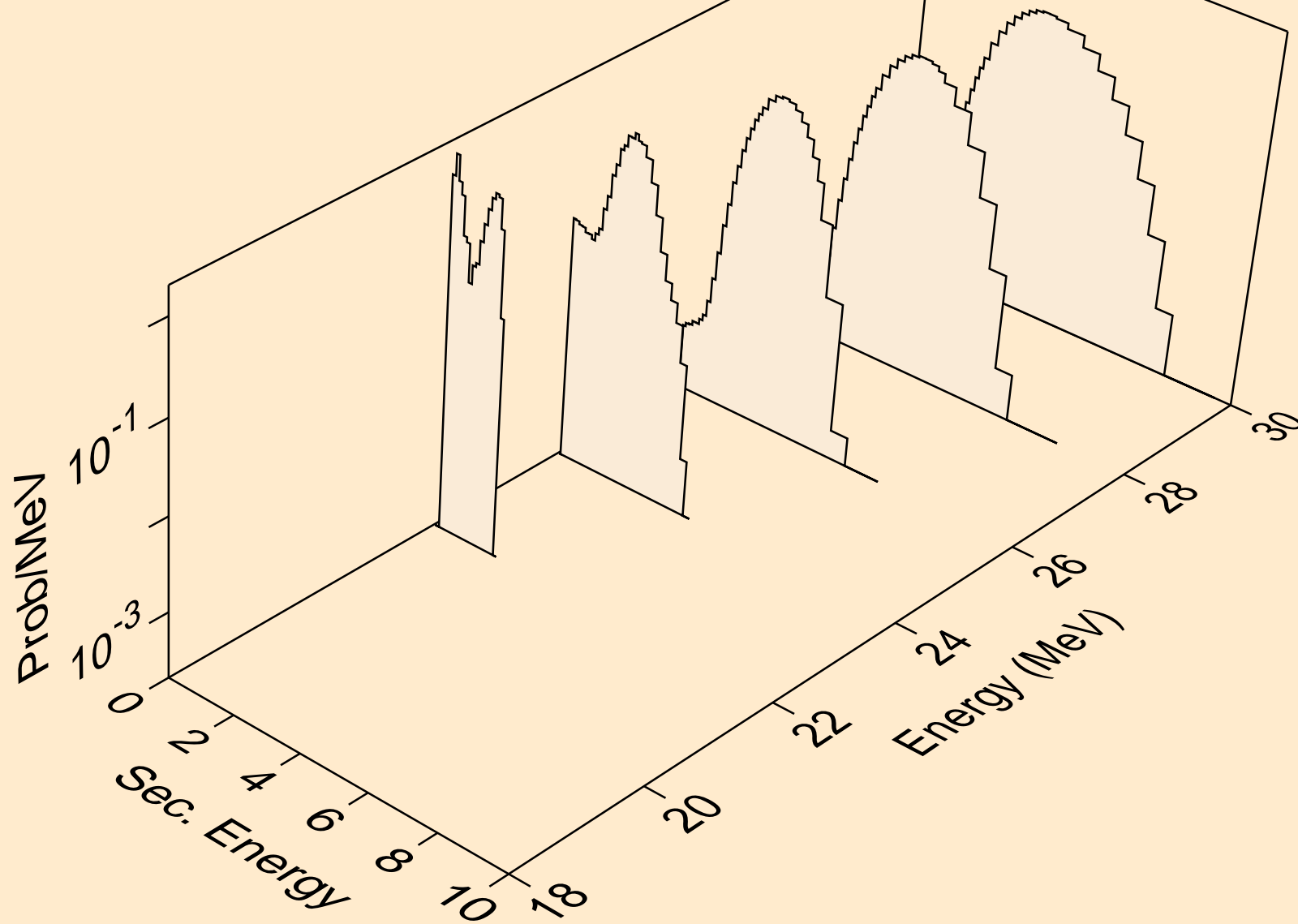
TI049 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Proton emission for (p,n\*)p



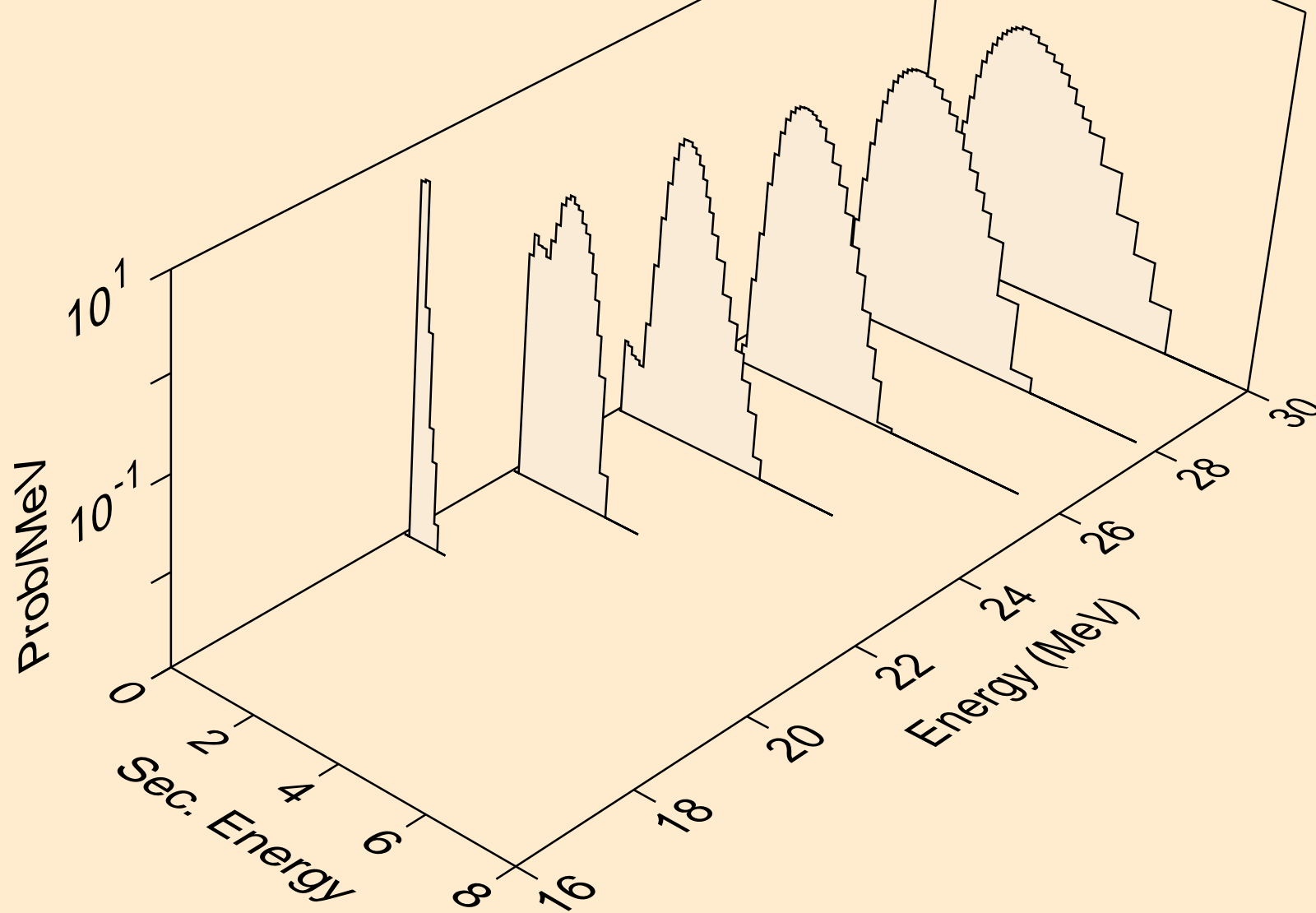
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Proton emission for (p,2np)



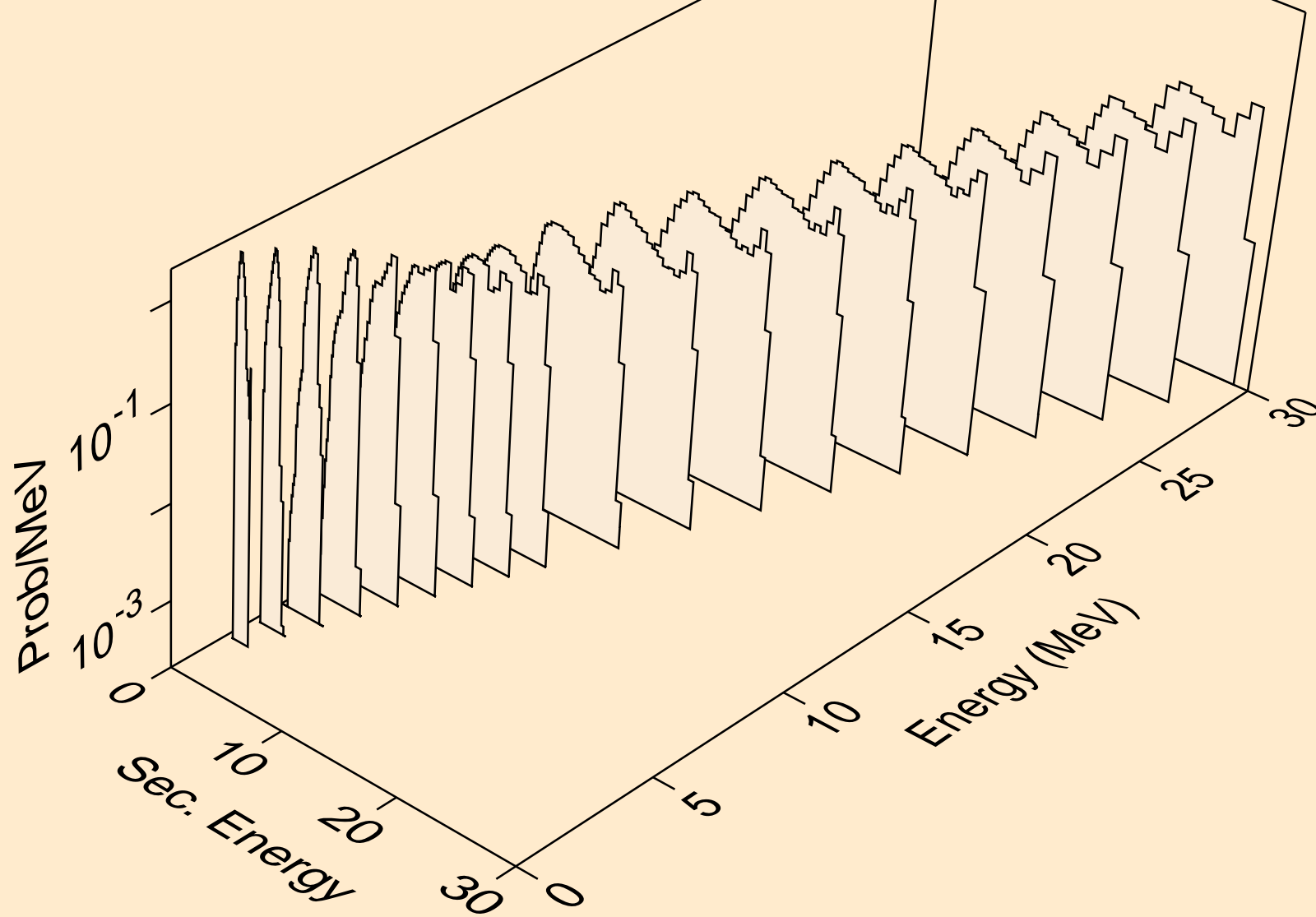
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Proton emission for (p,n2p)



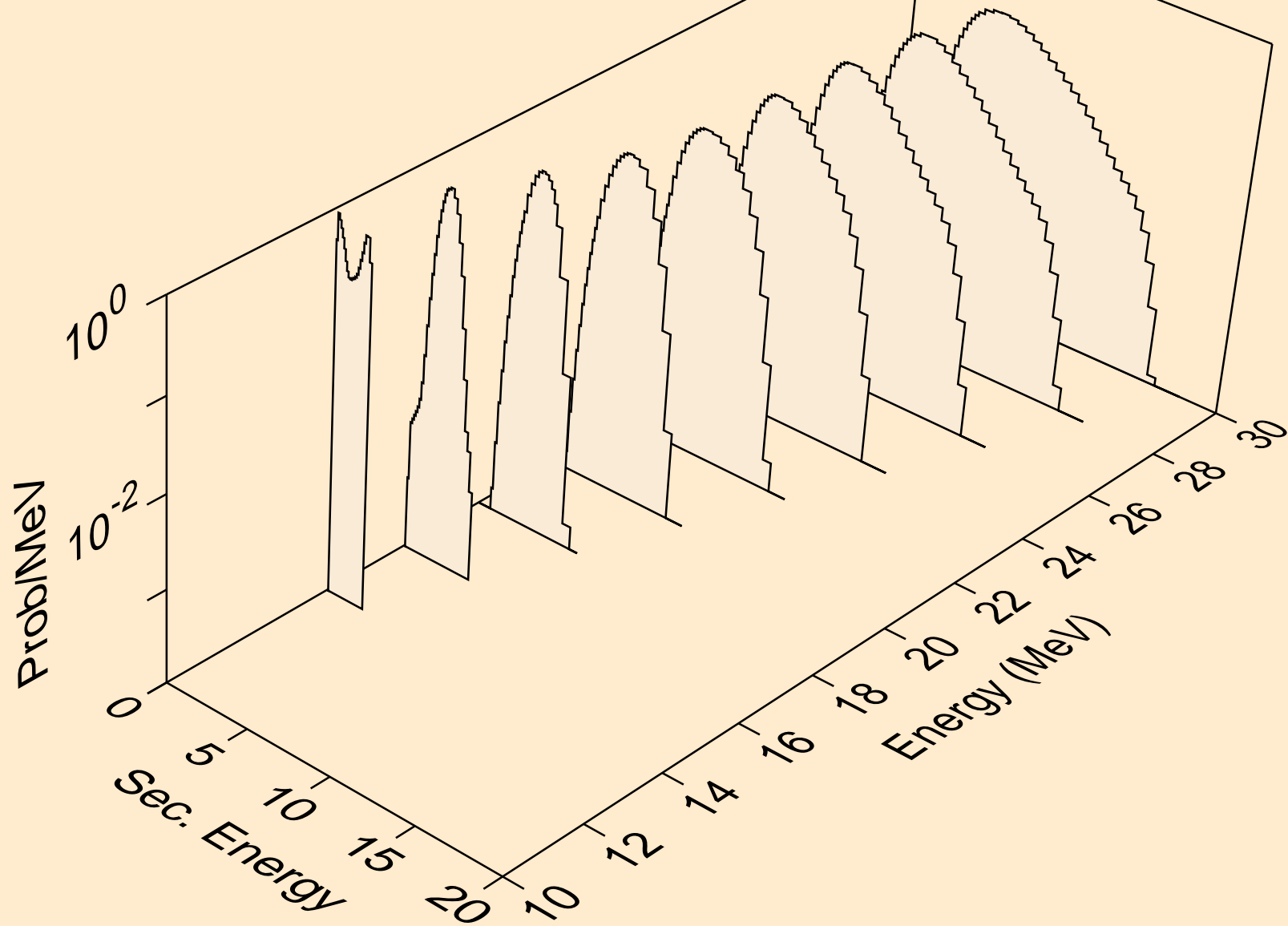
TI049 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Proton emission for (p,npa)



TI049 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Proton emission for inelastic

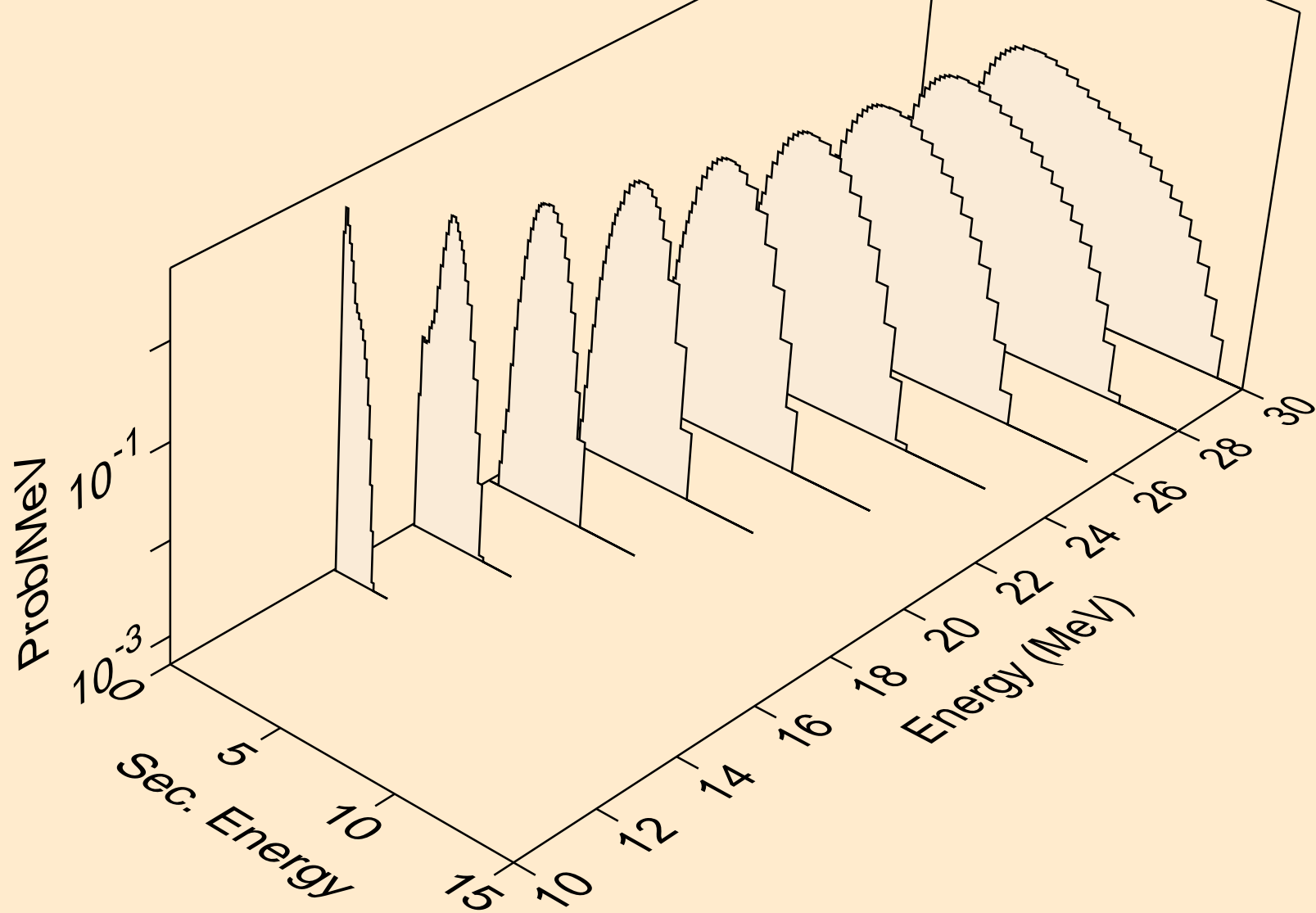


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Proton emission for (p,2p)

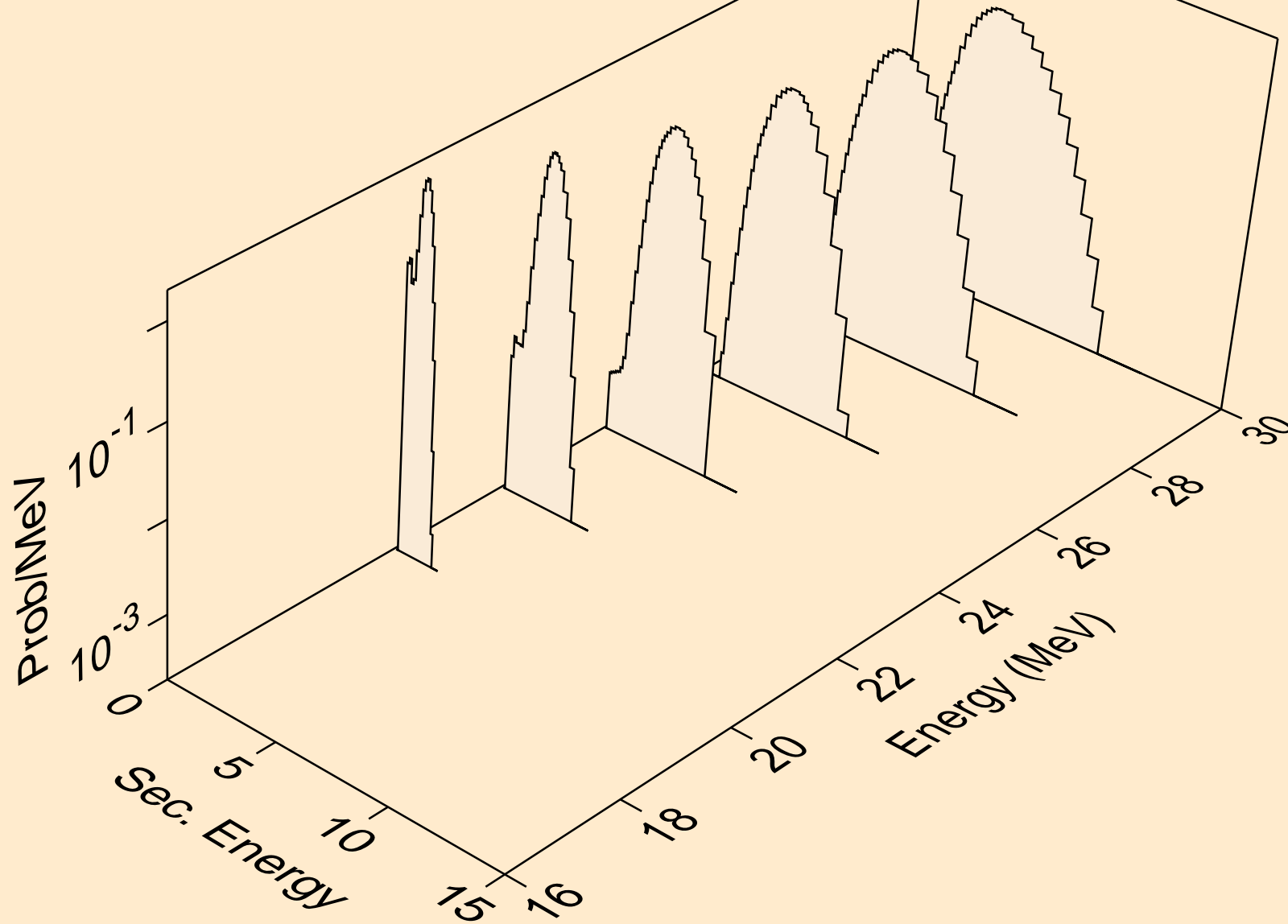




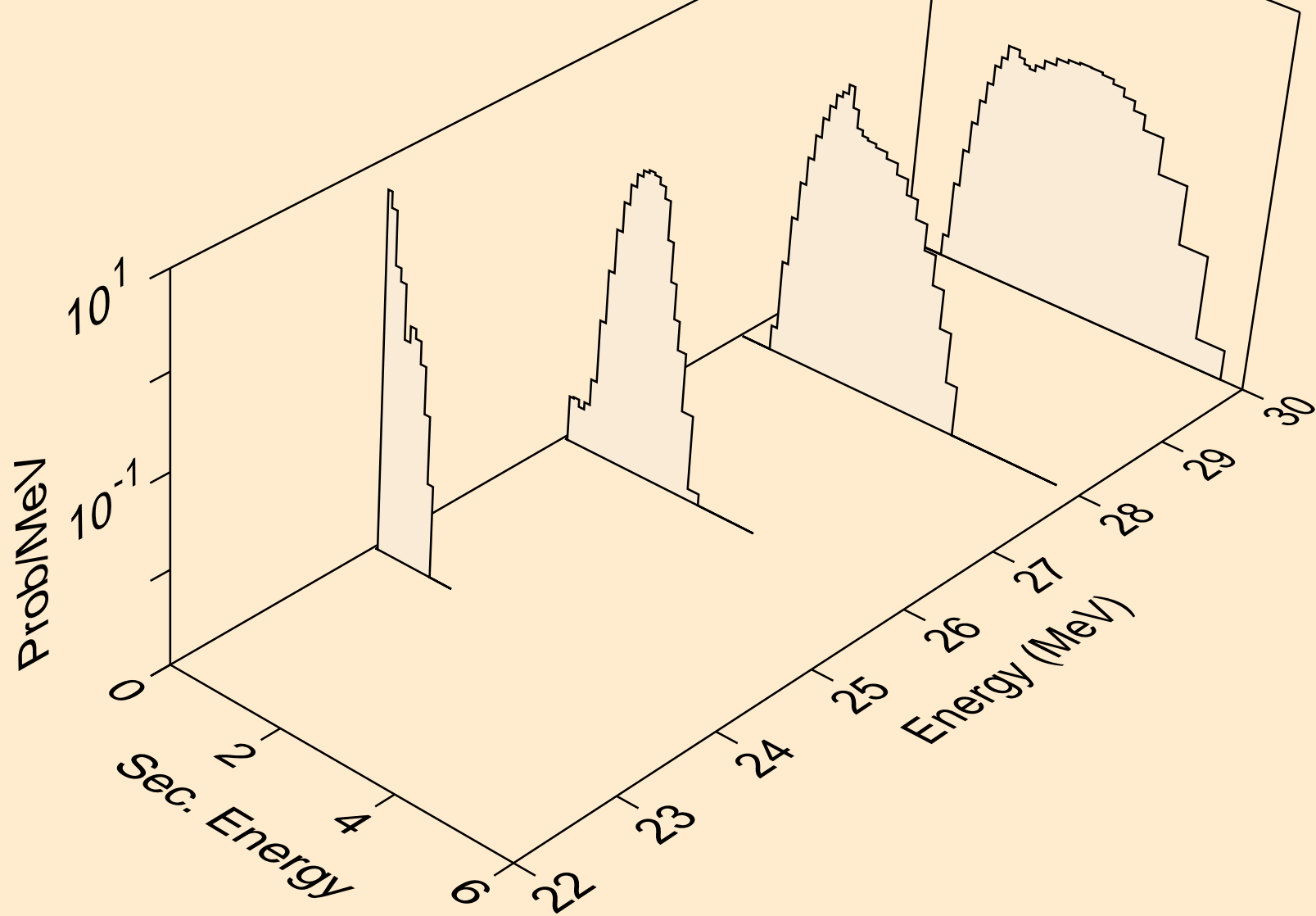
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Proton emission for (p,pa)



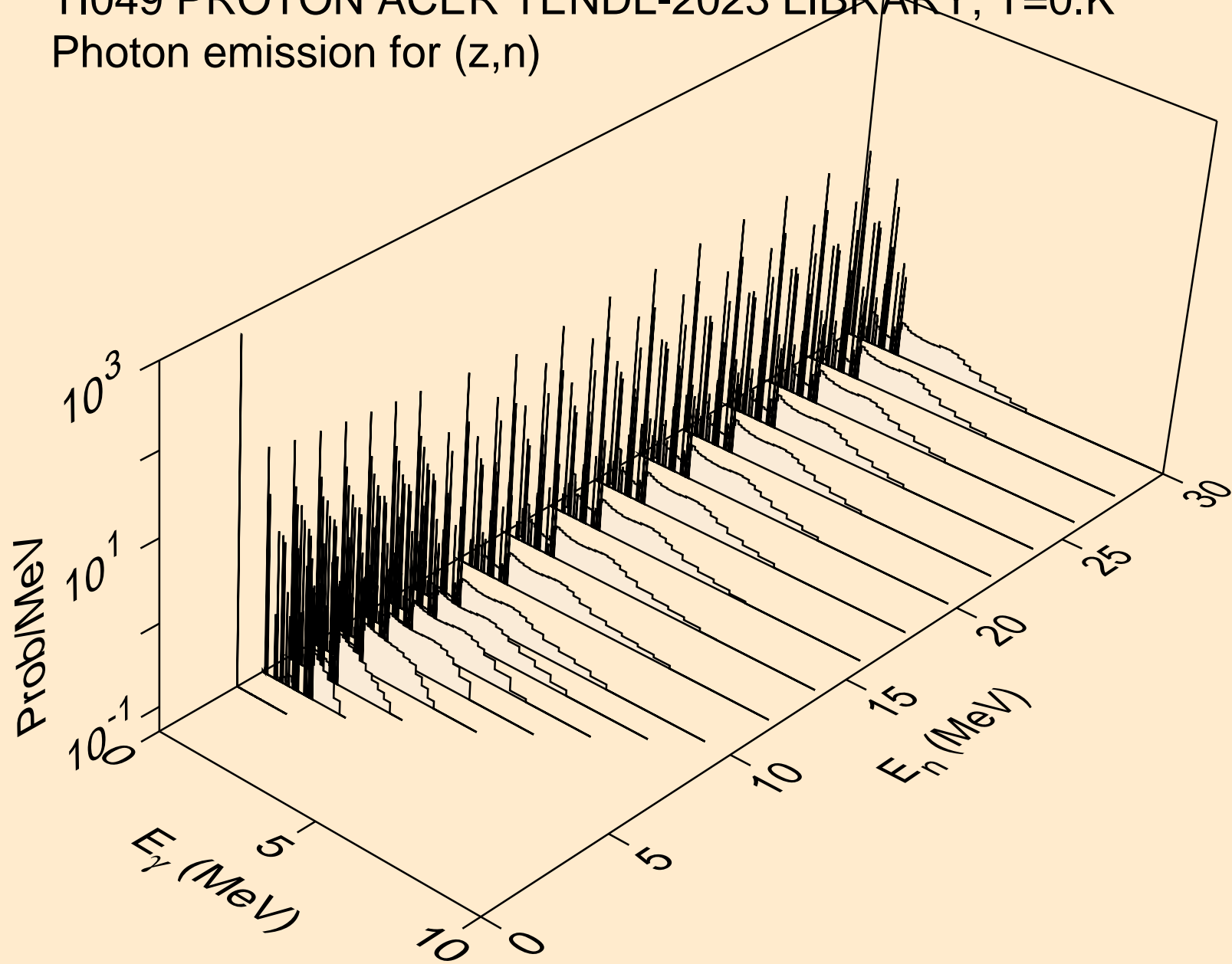
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Proton emission for (p,pd)



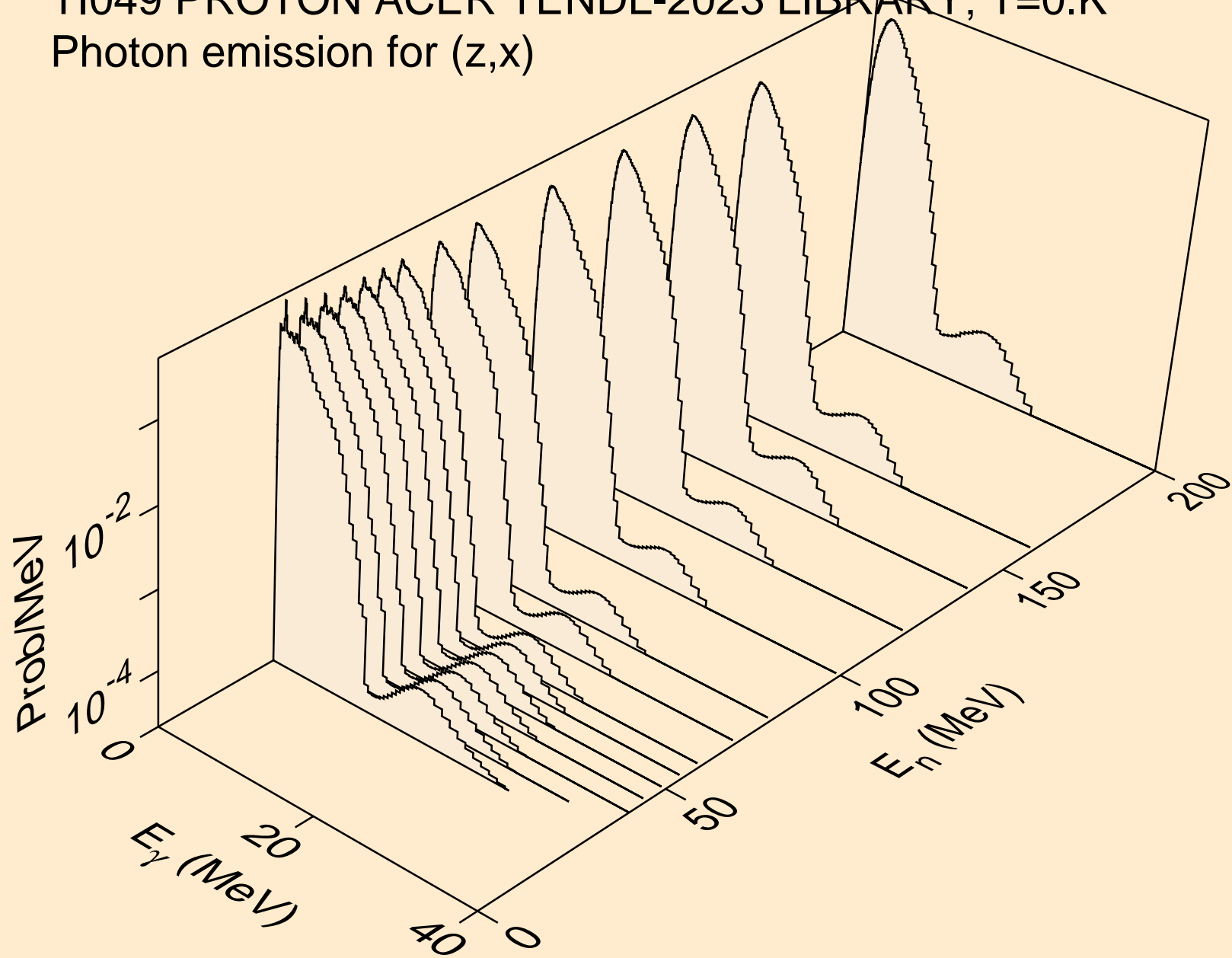
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Proton emission for (p,pt)



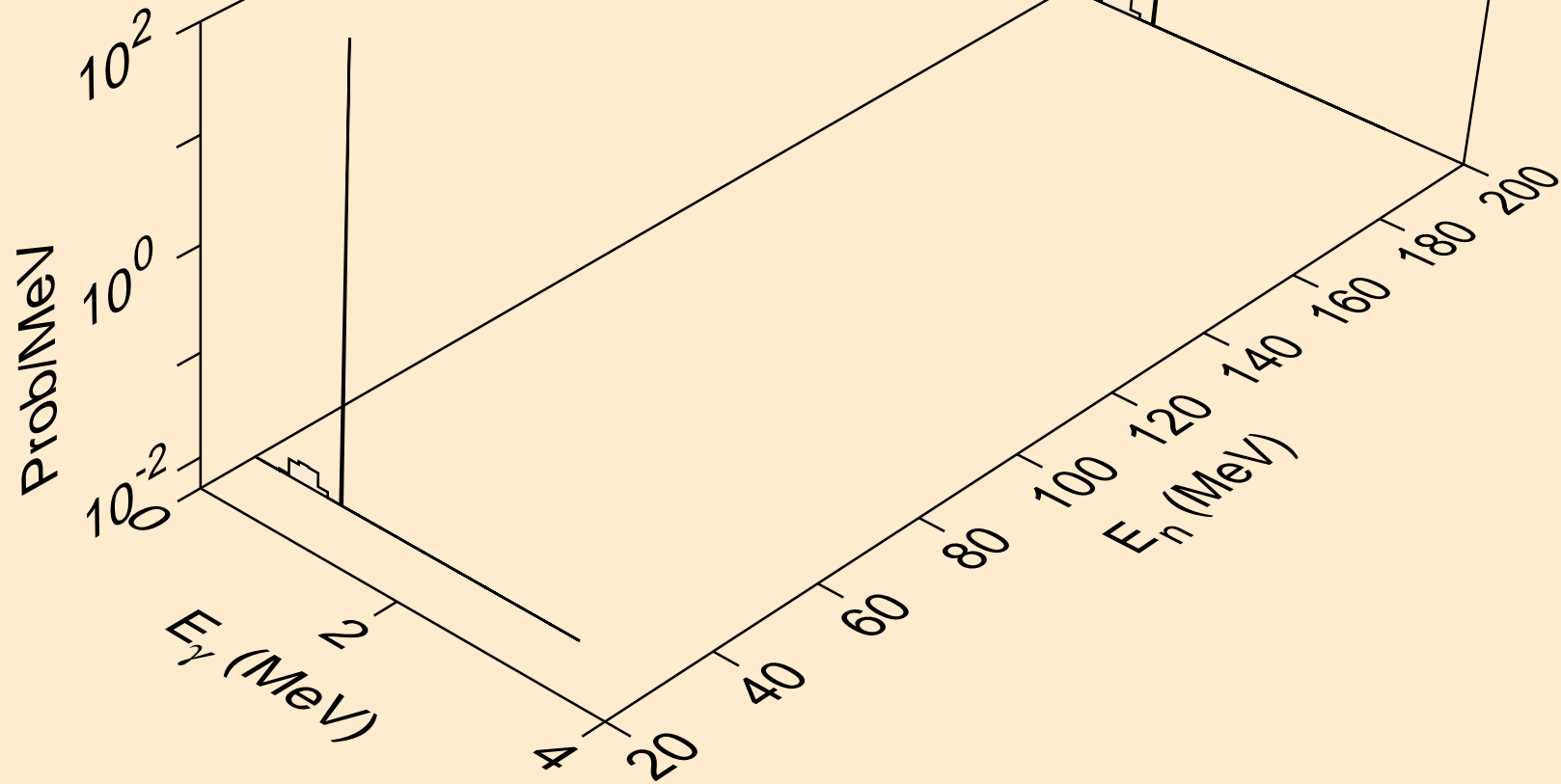
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Photon emission for (z,n)



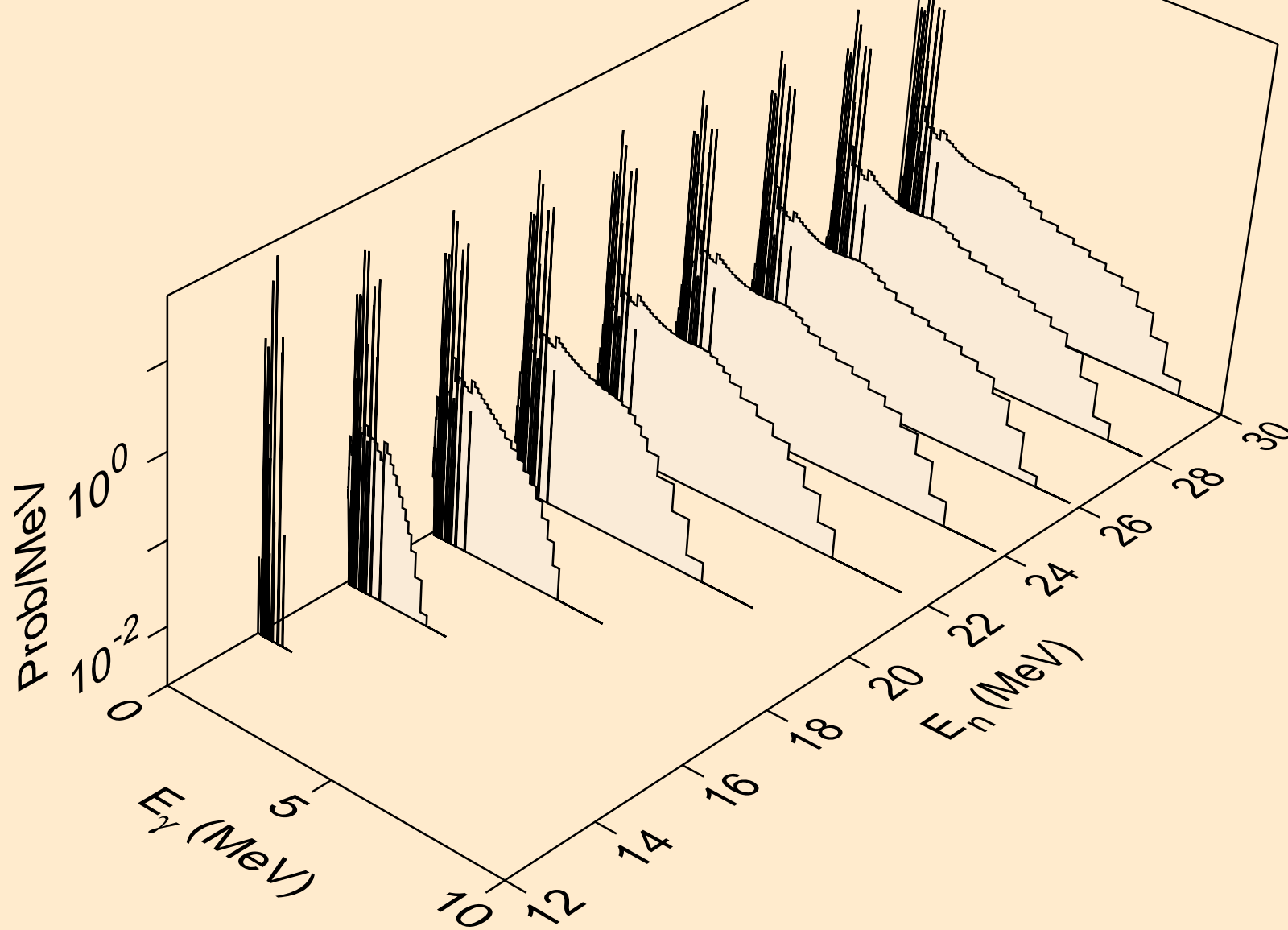
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Photon emission for (z,x)



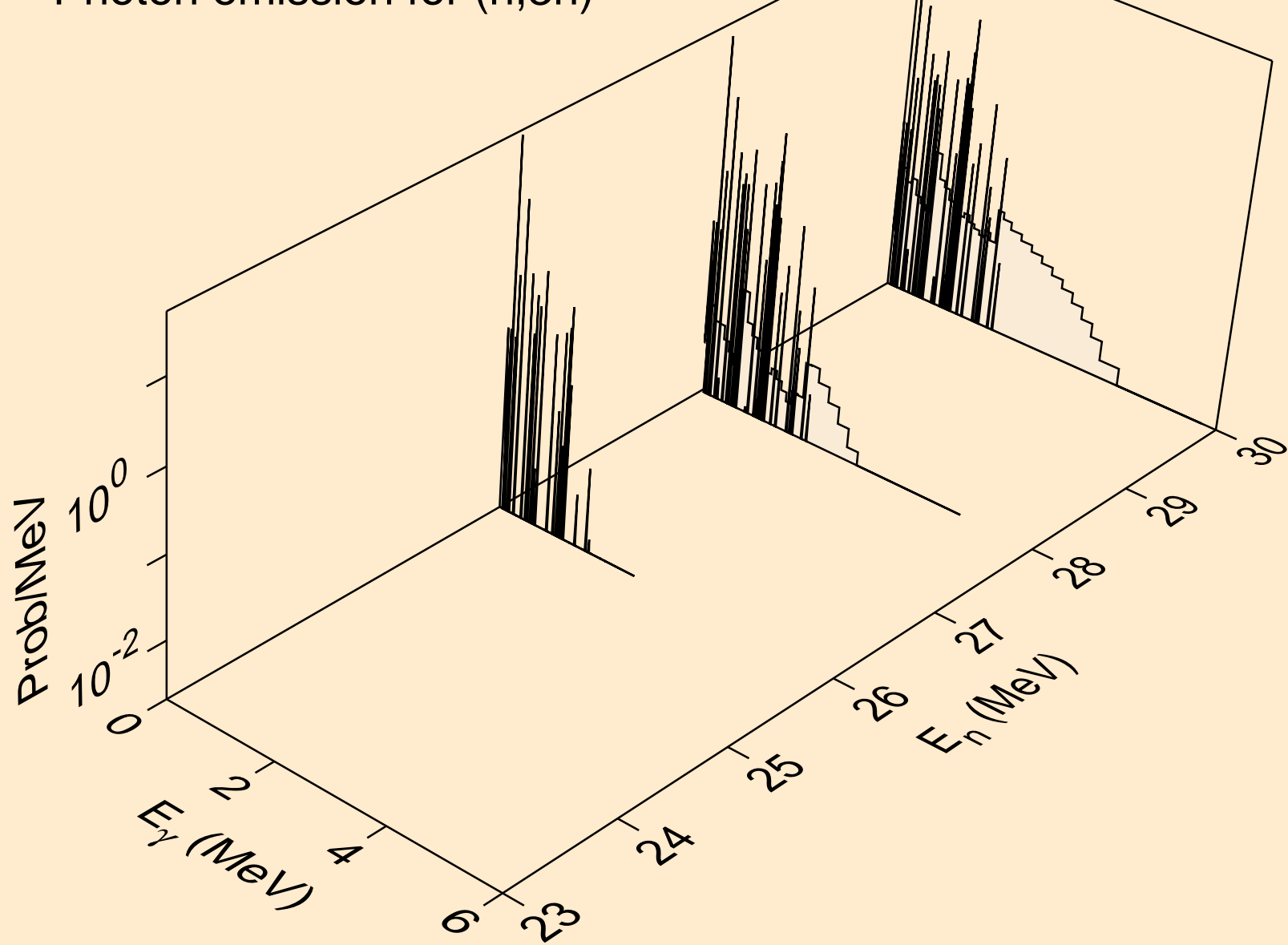
TI049 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2nd)



TI049 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2n)

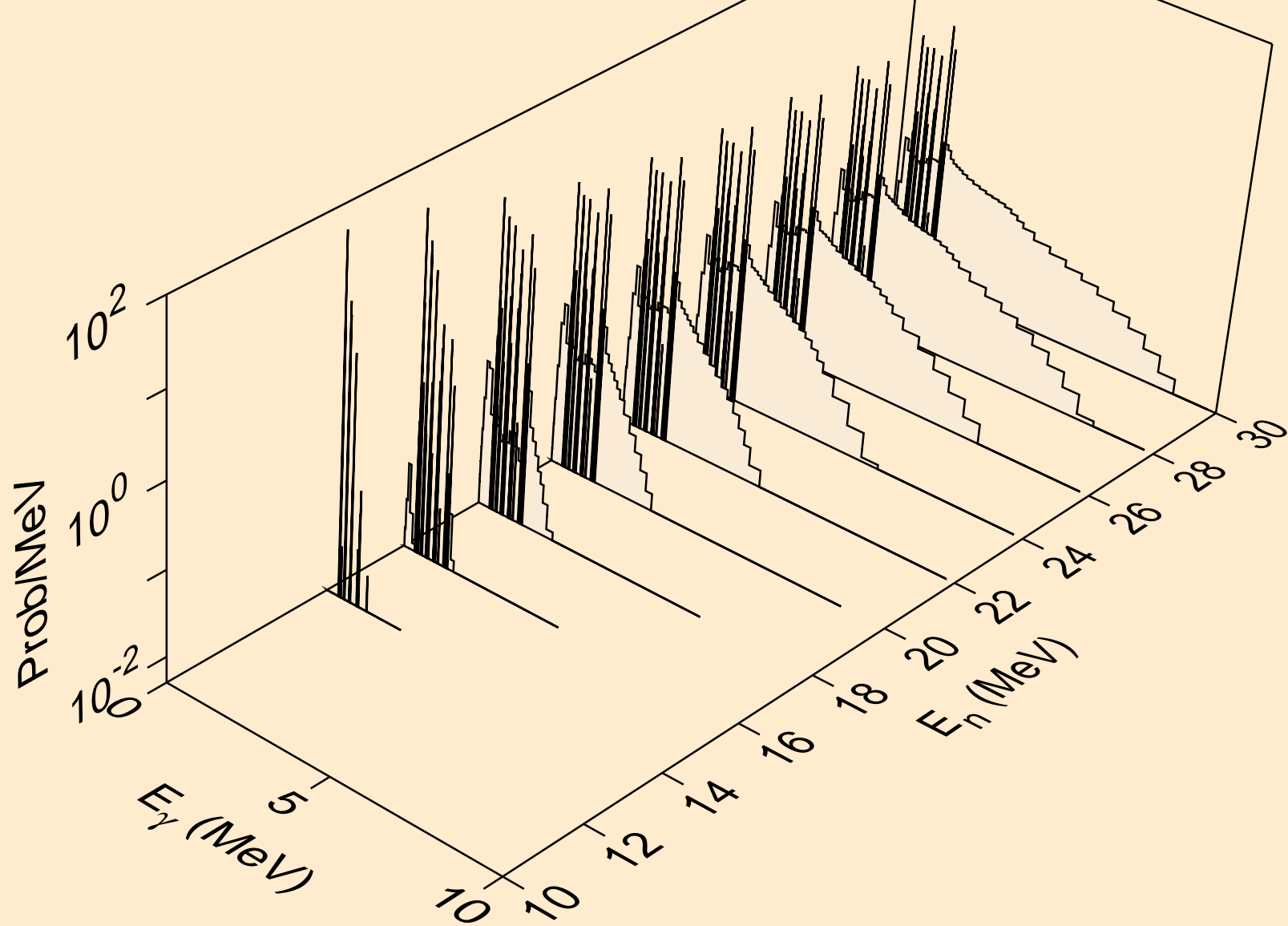


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Photon emission for (n,3n)

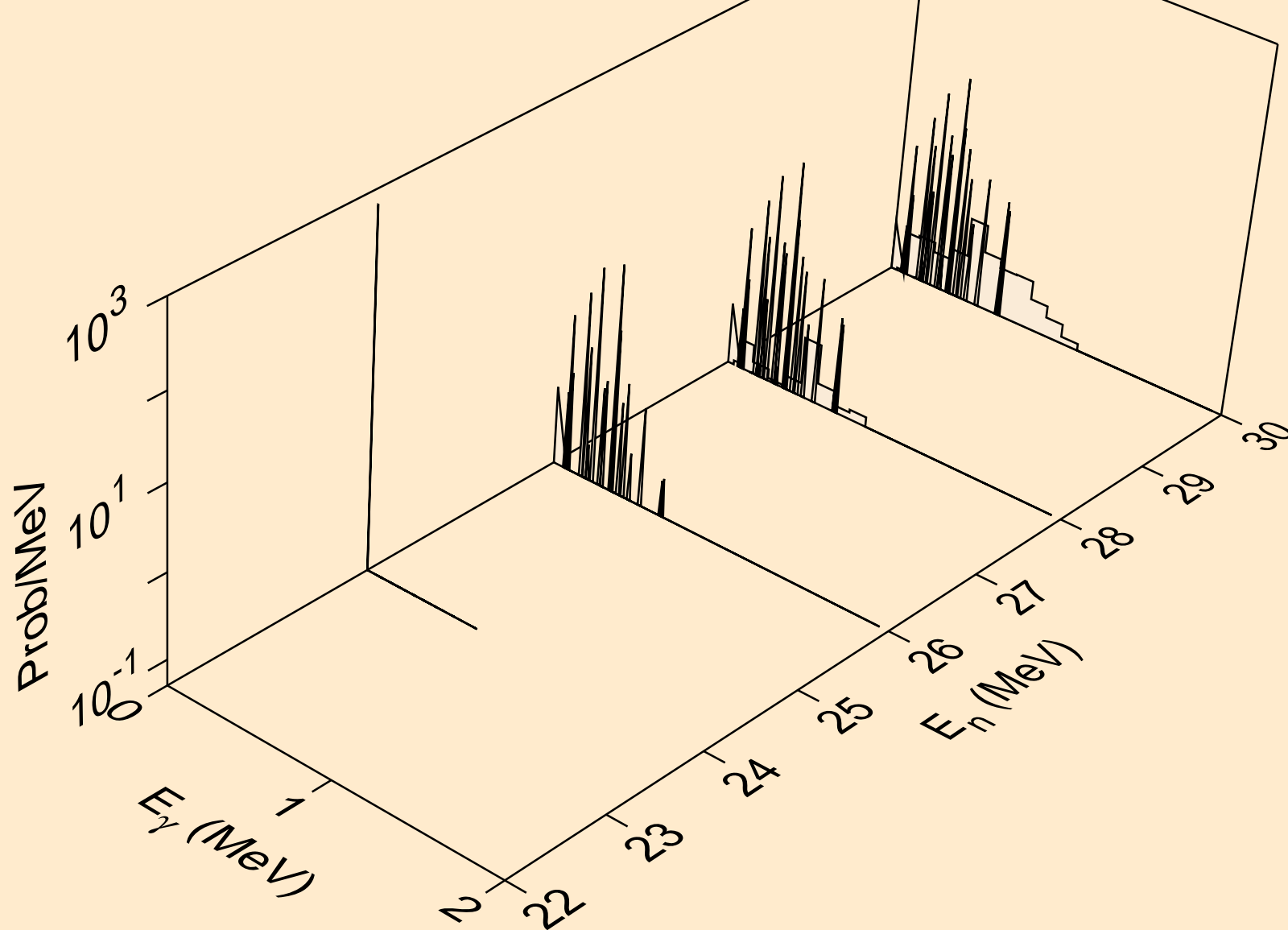




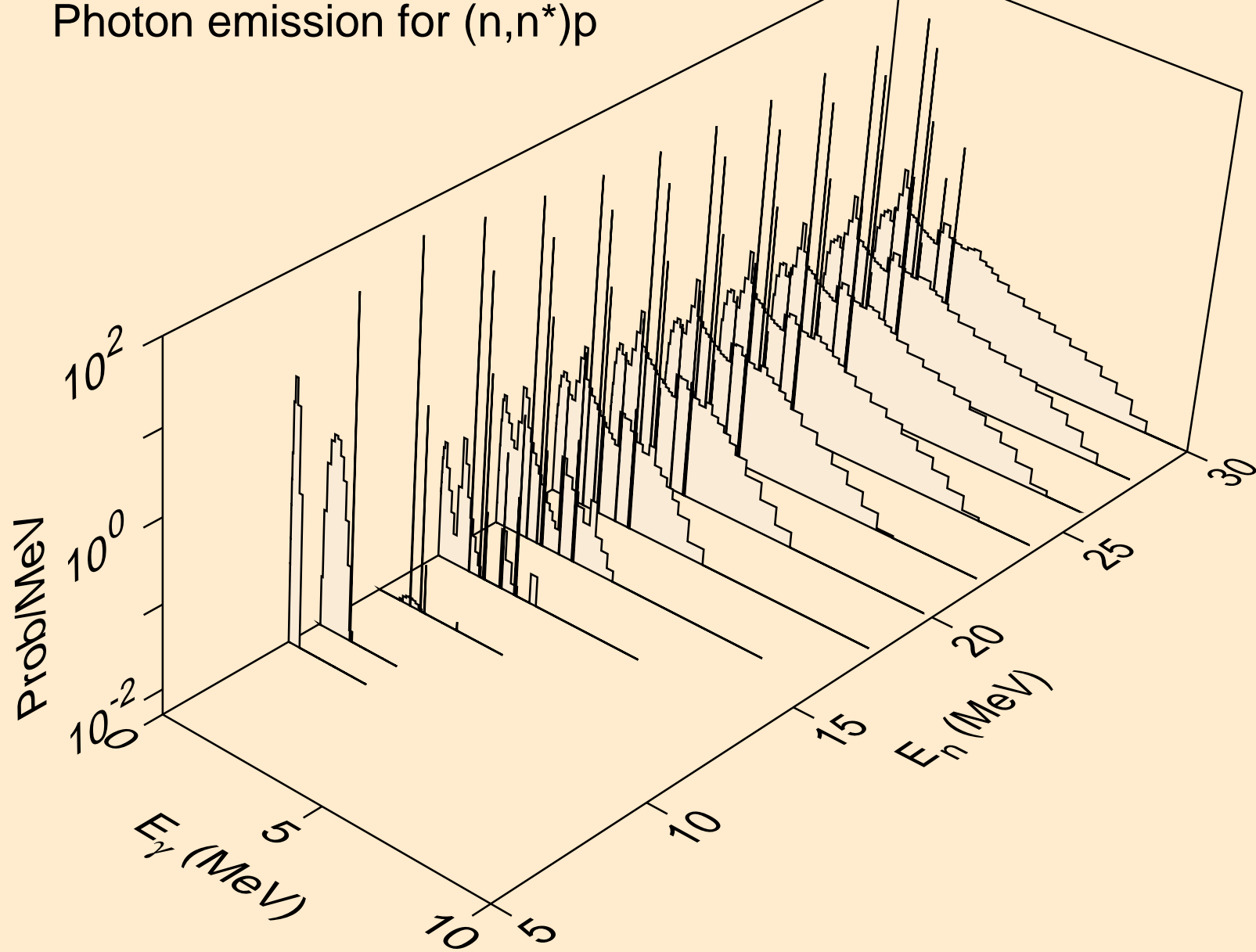
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Photon emission for (n,n\*)a



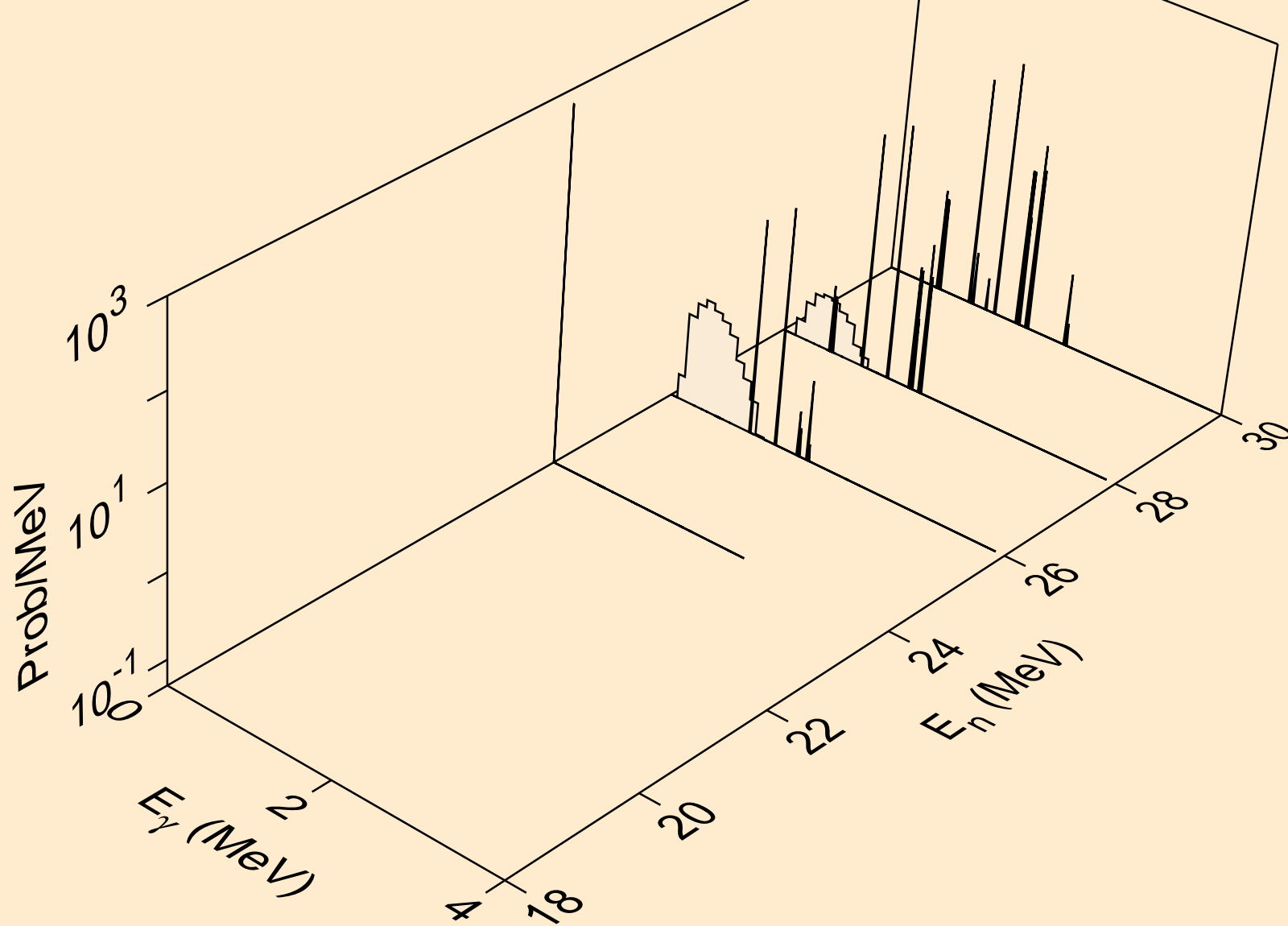
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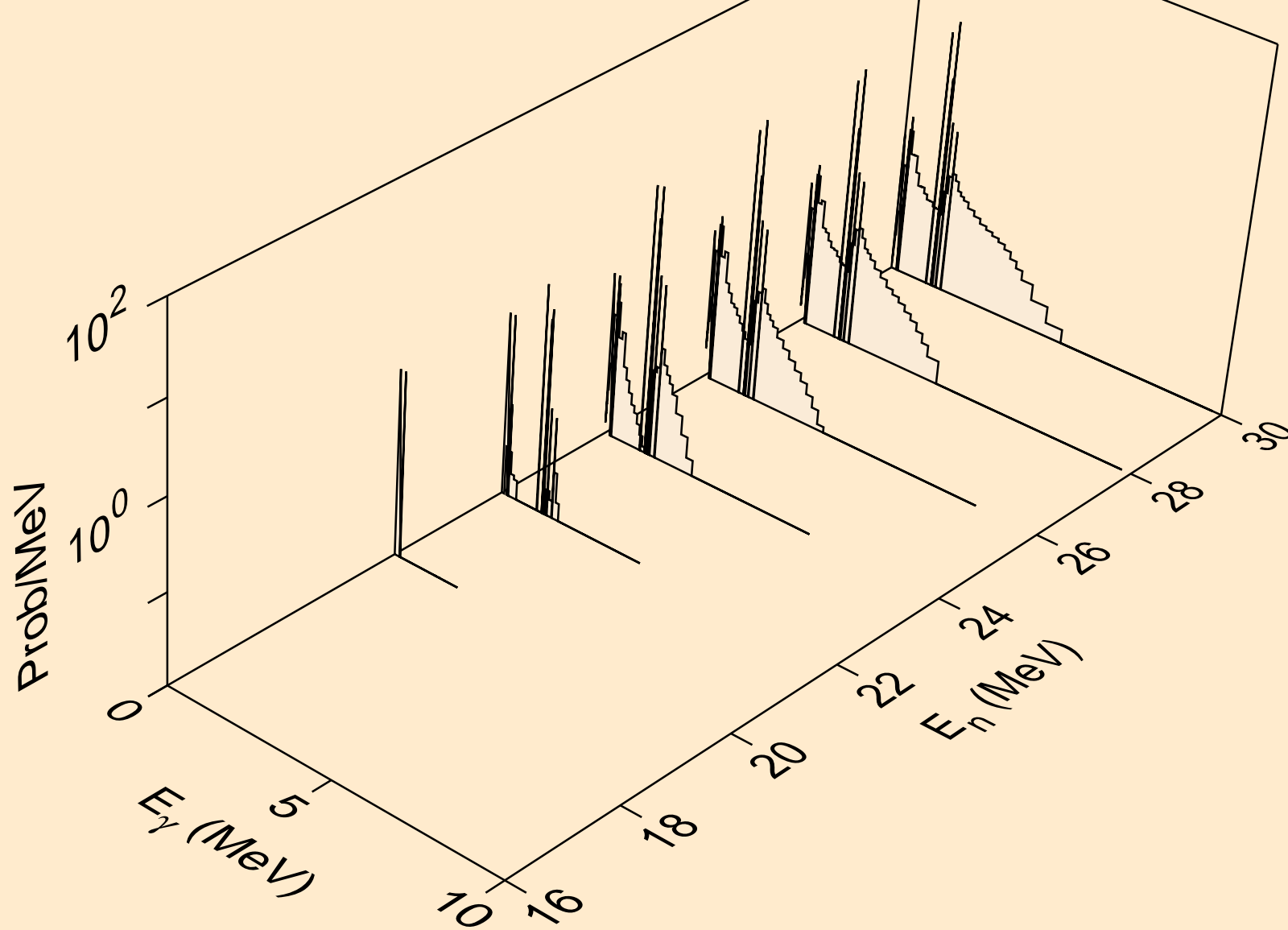
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Photon emission for (n,n\*)p



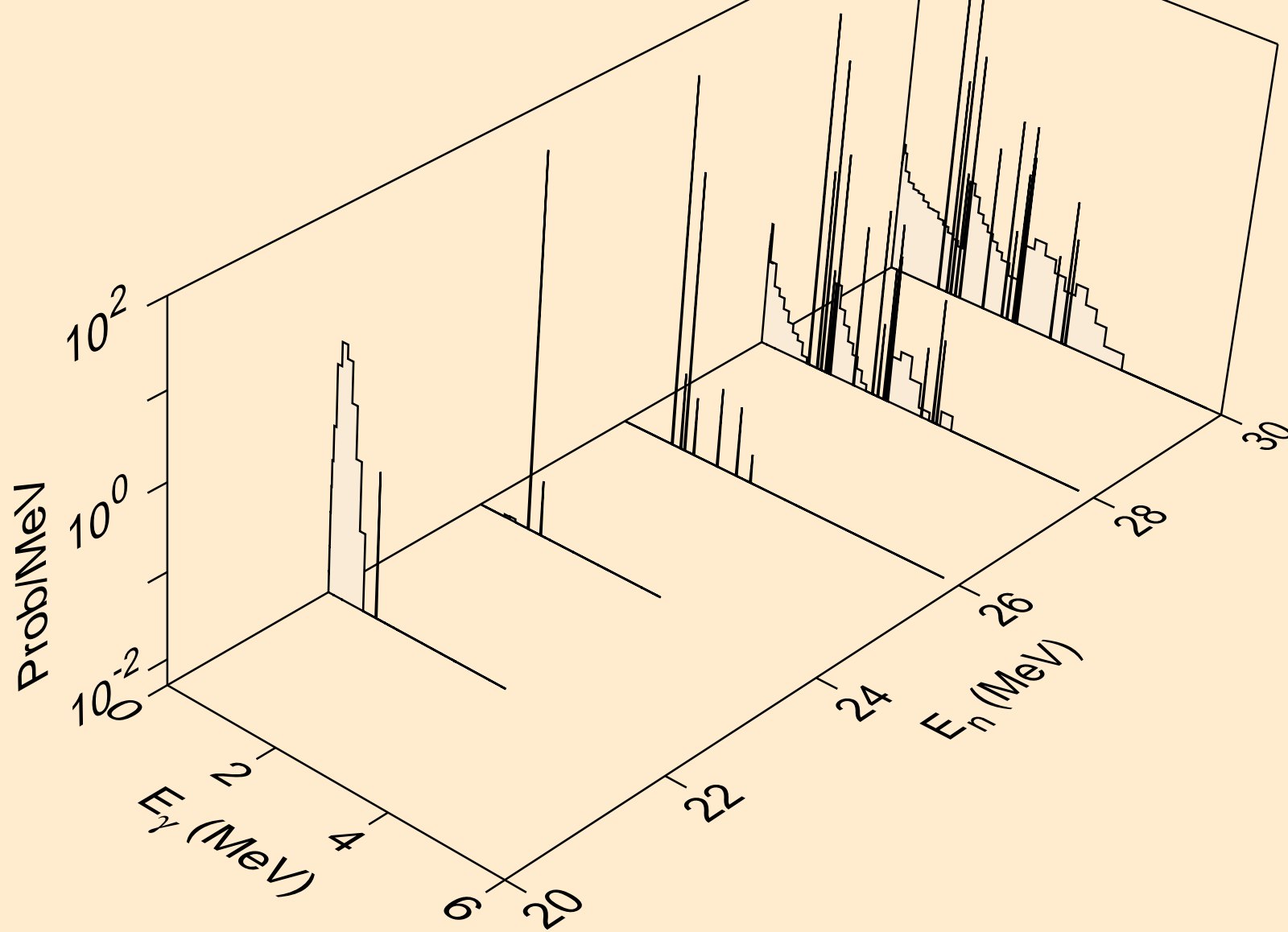
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Photon emission for (n,n\*)2a



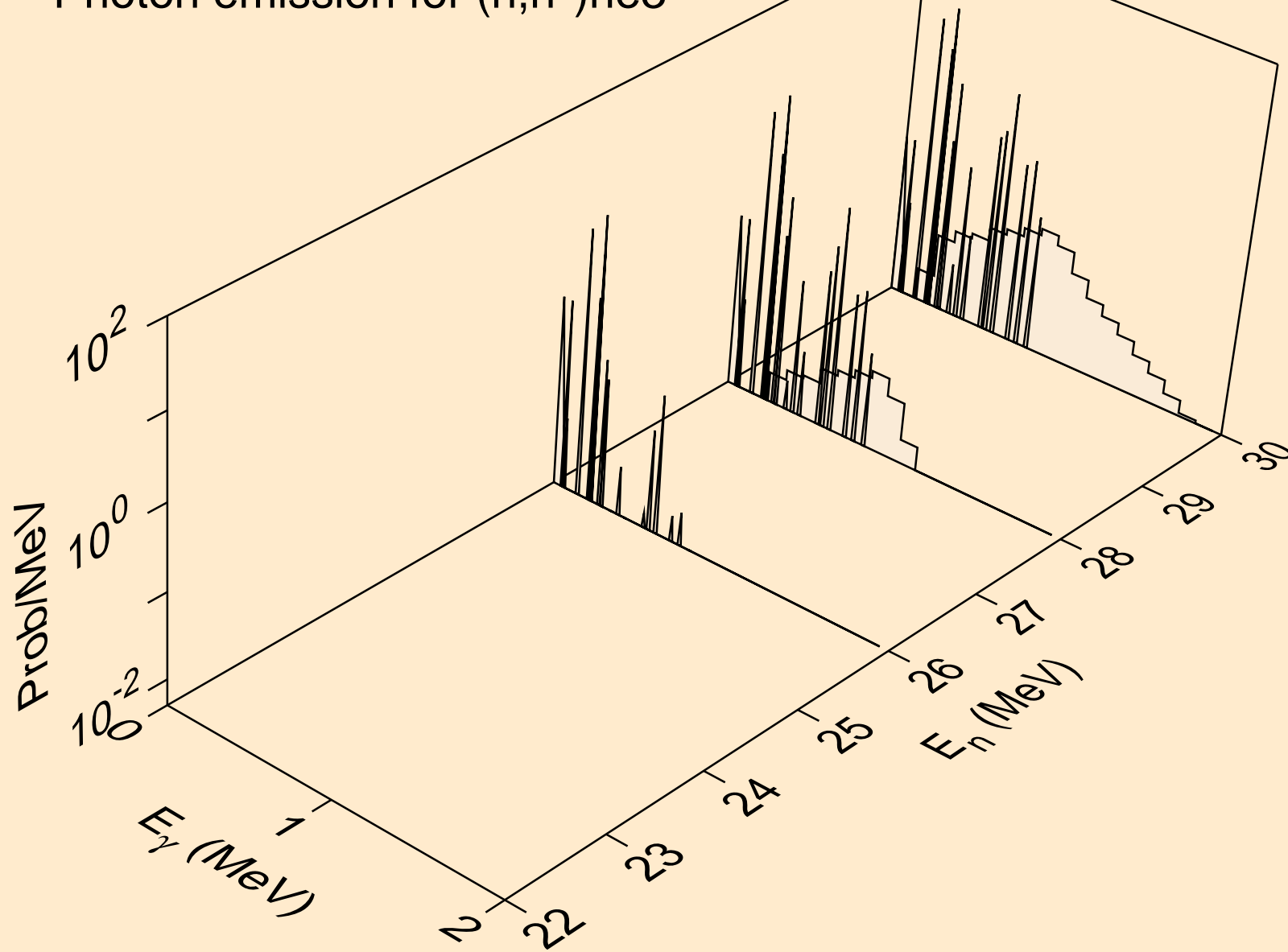
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Photon emission for (n,n\*)d



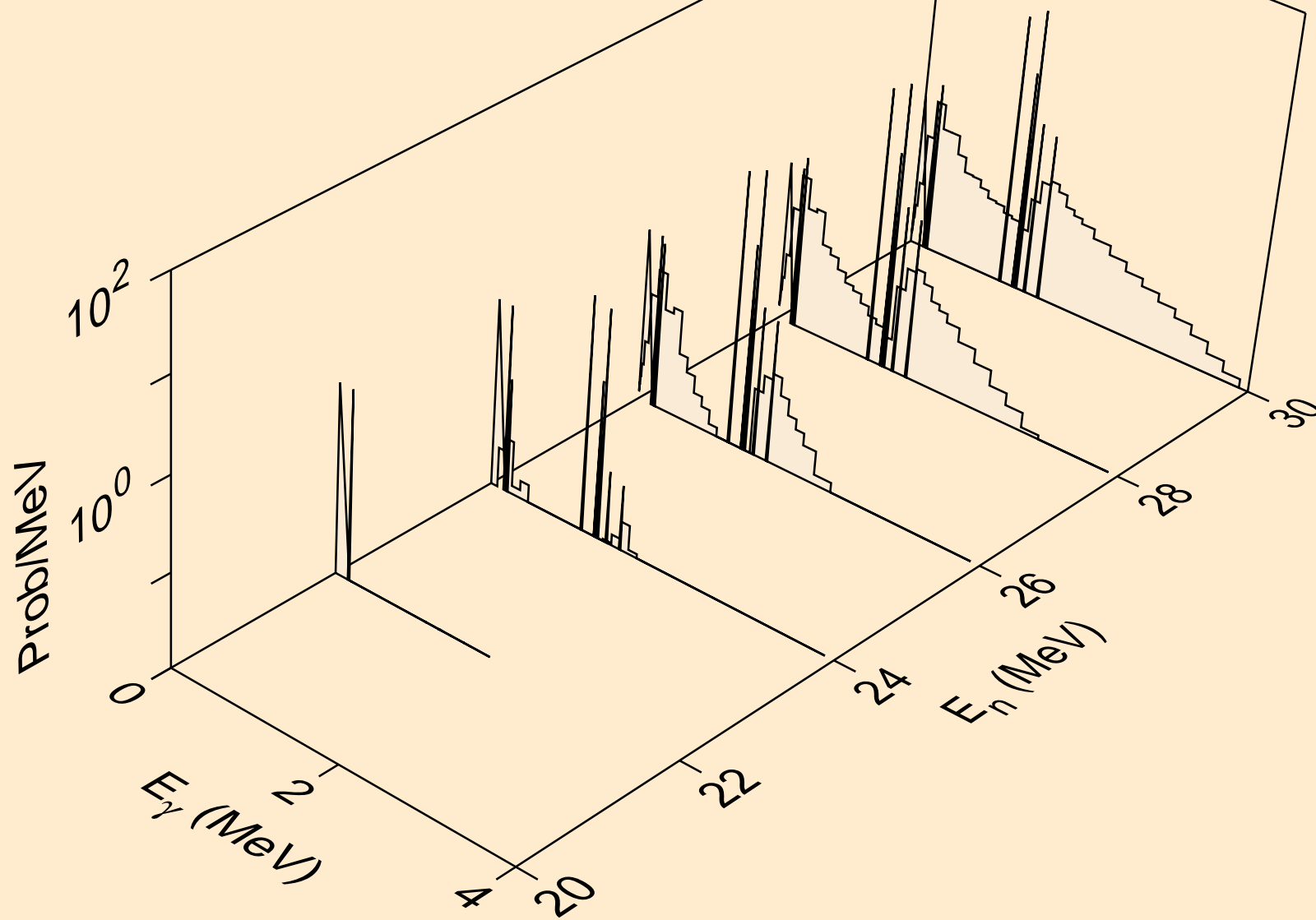
TI049 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)t



TI049 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)he3

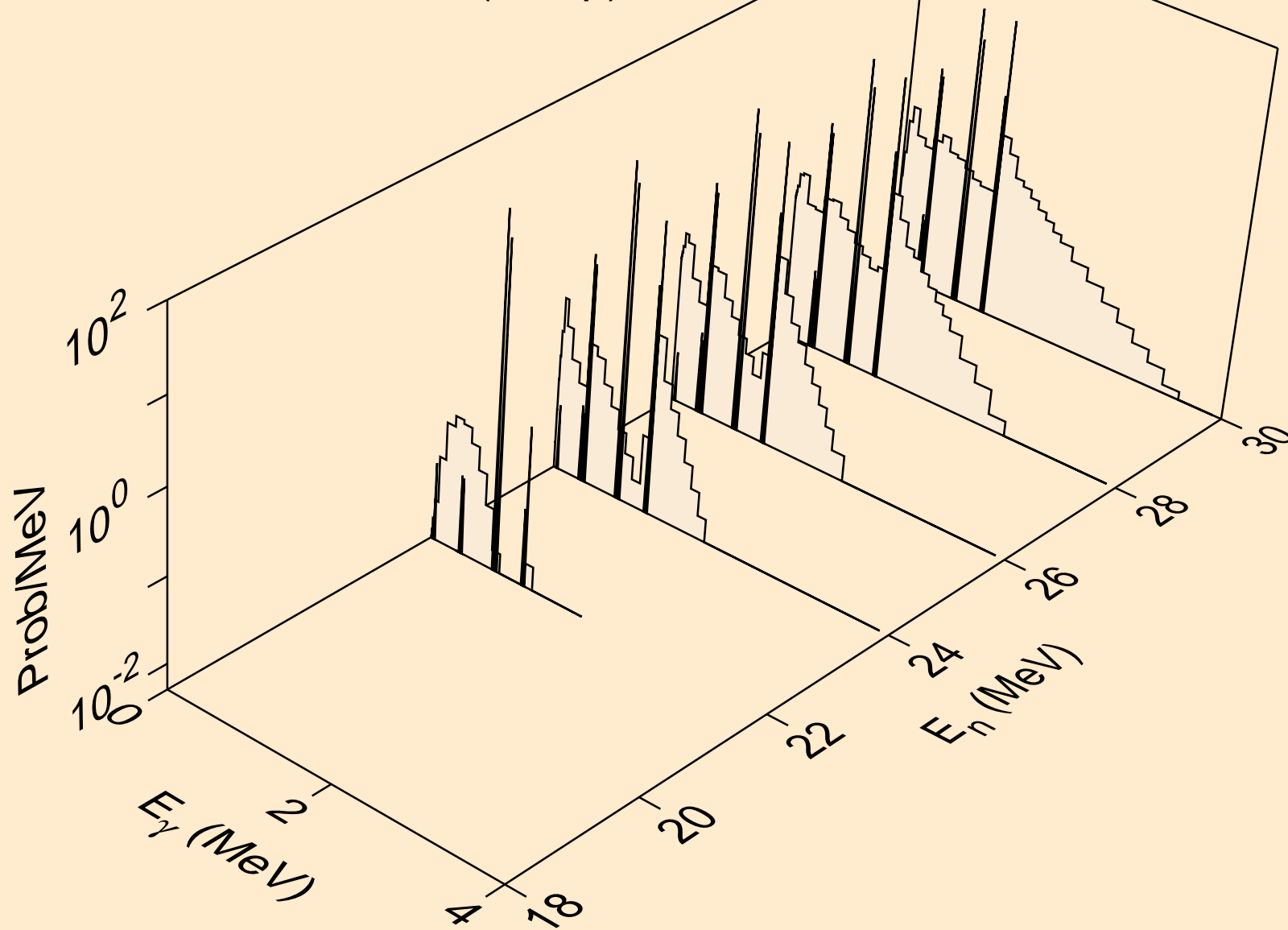


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Photon emission for (n,2np)

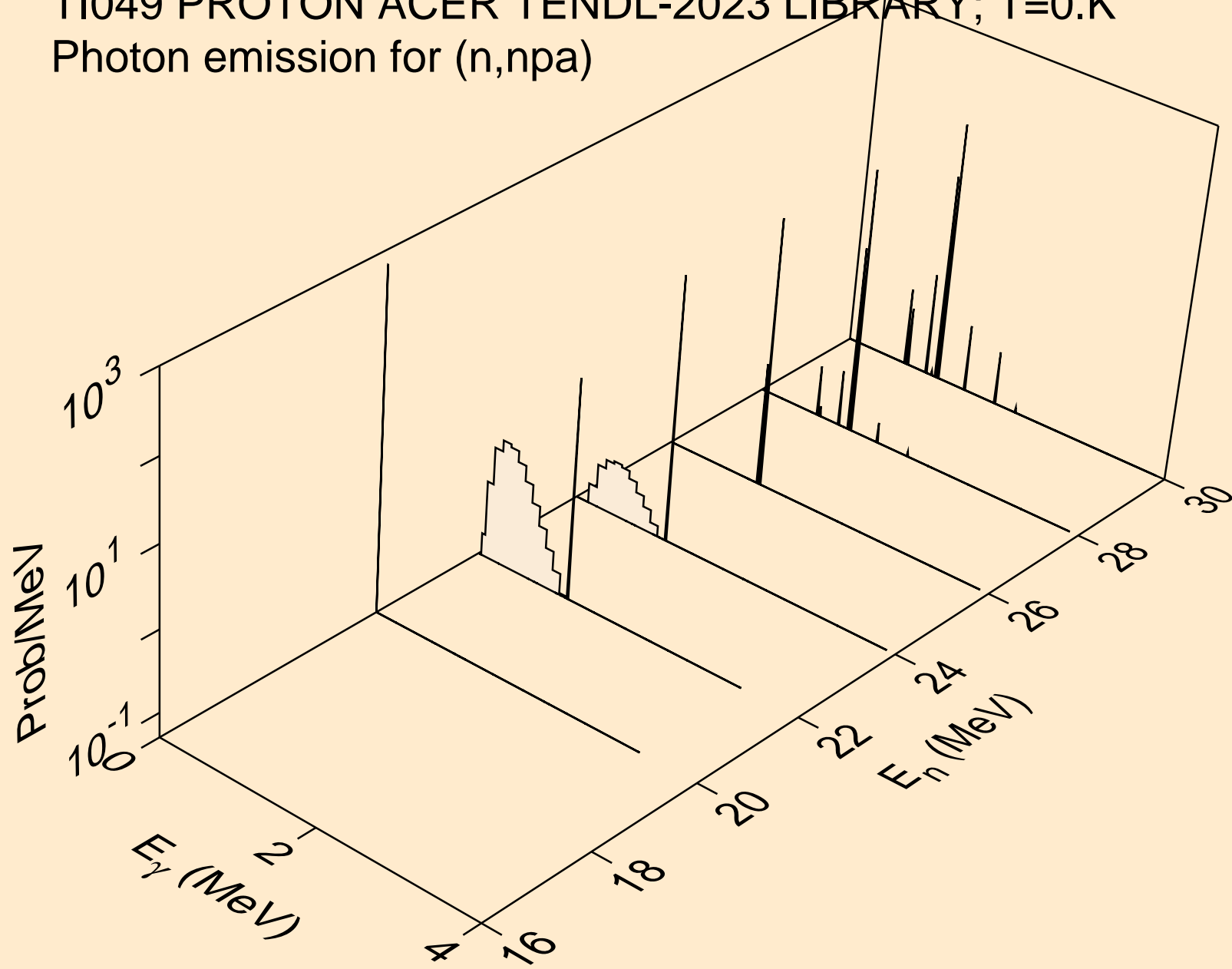




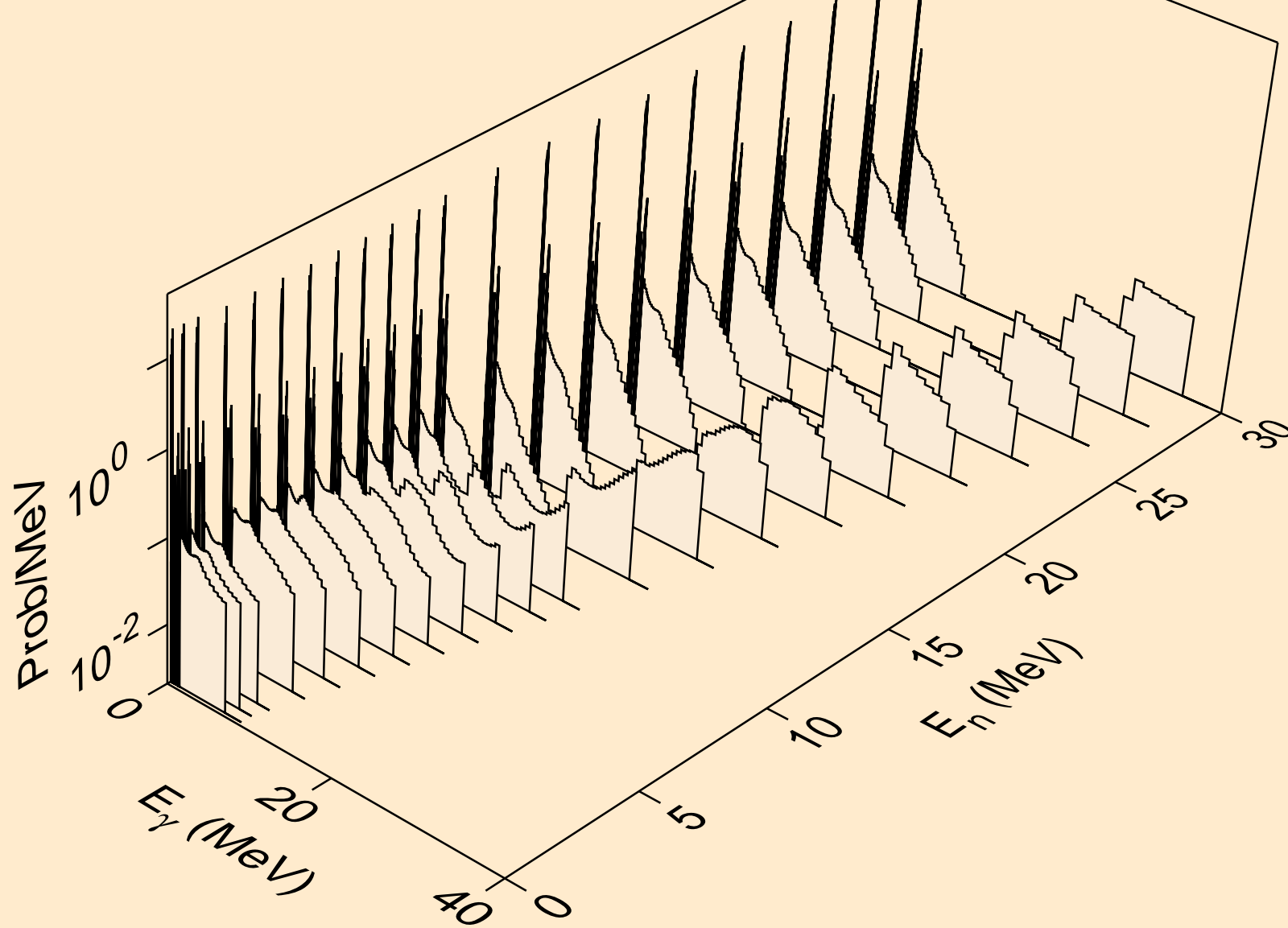
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Photon emission for (n,n2p)



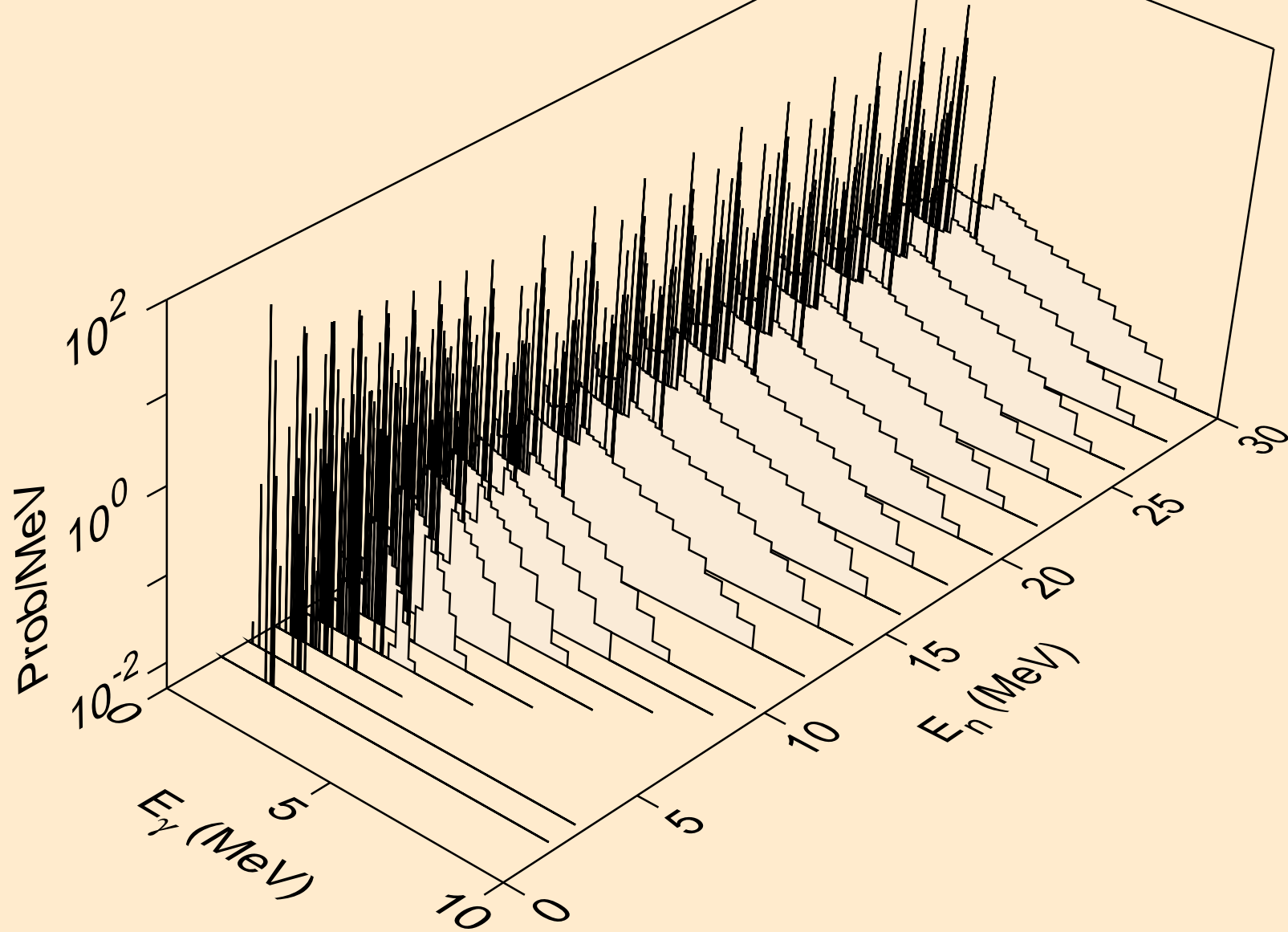
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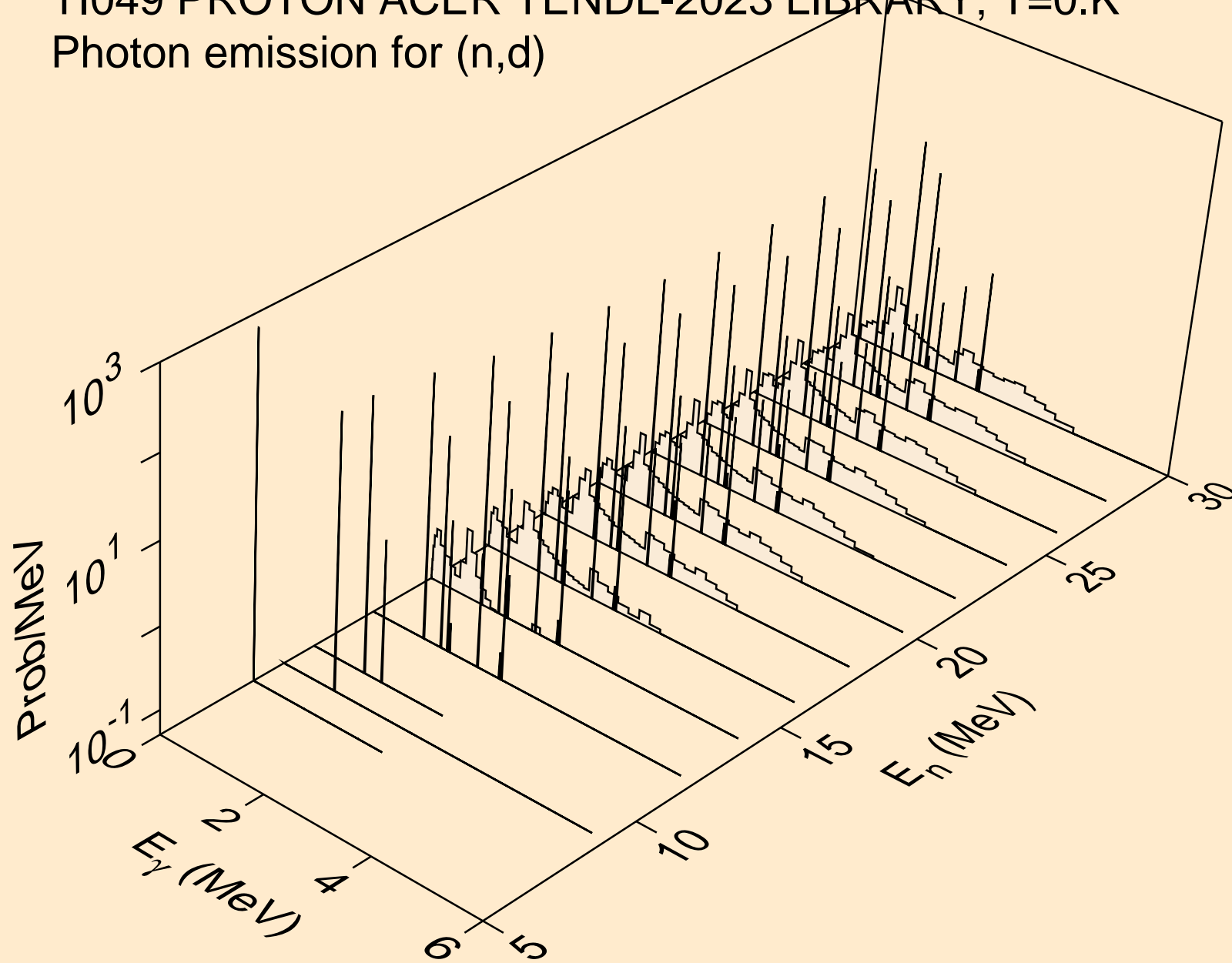
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Photon emission for (n,gma)



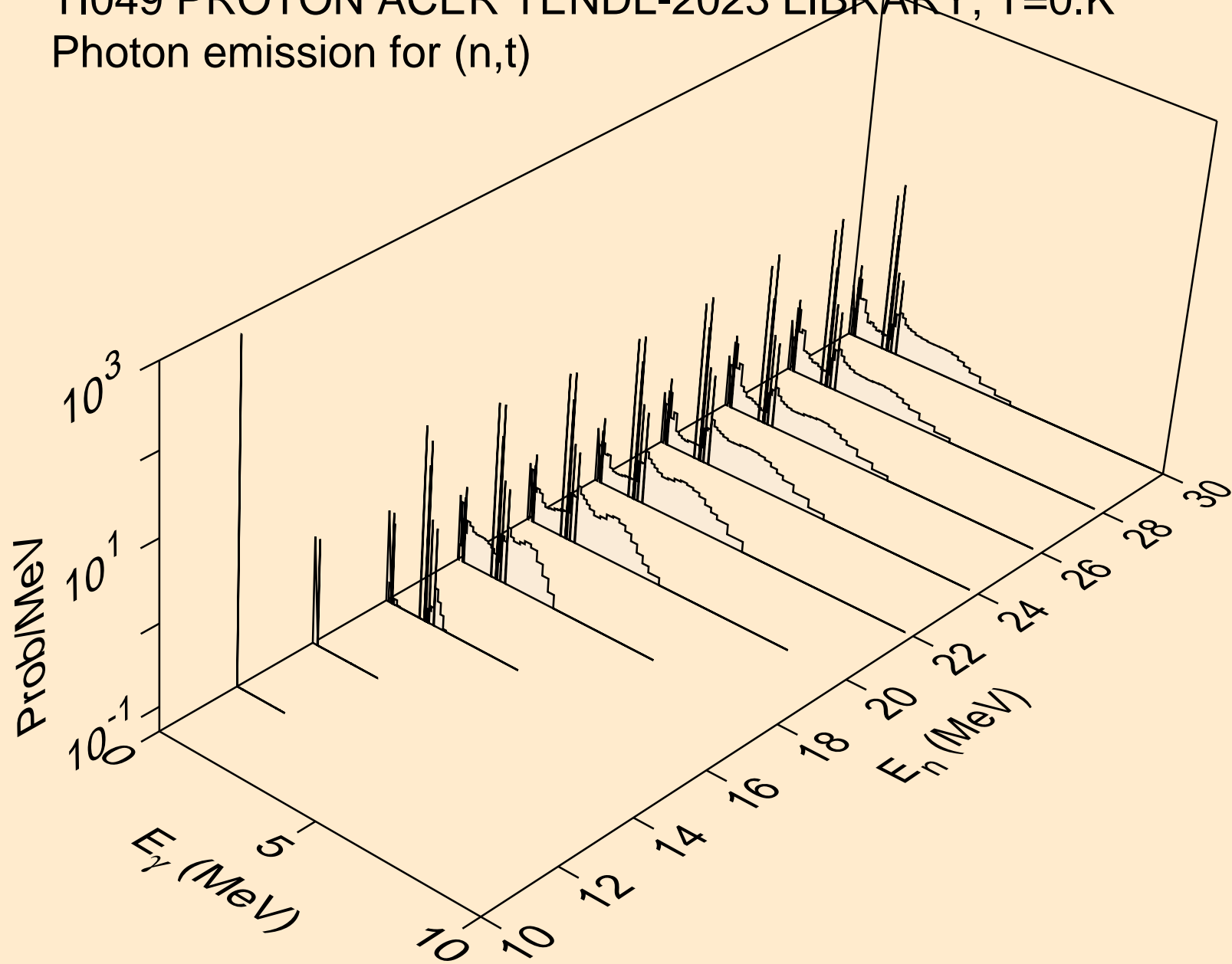
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Photon emission for inelastic



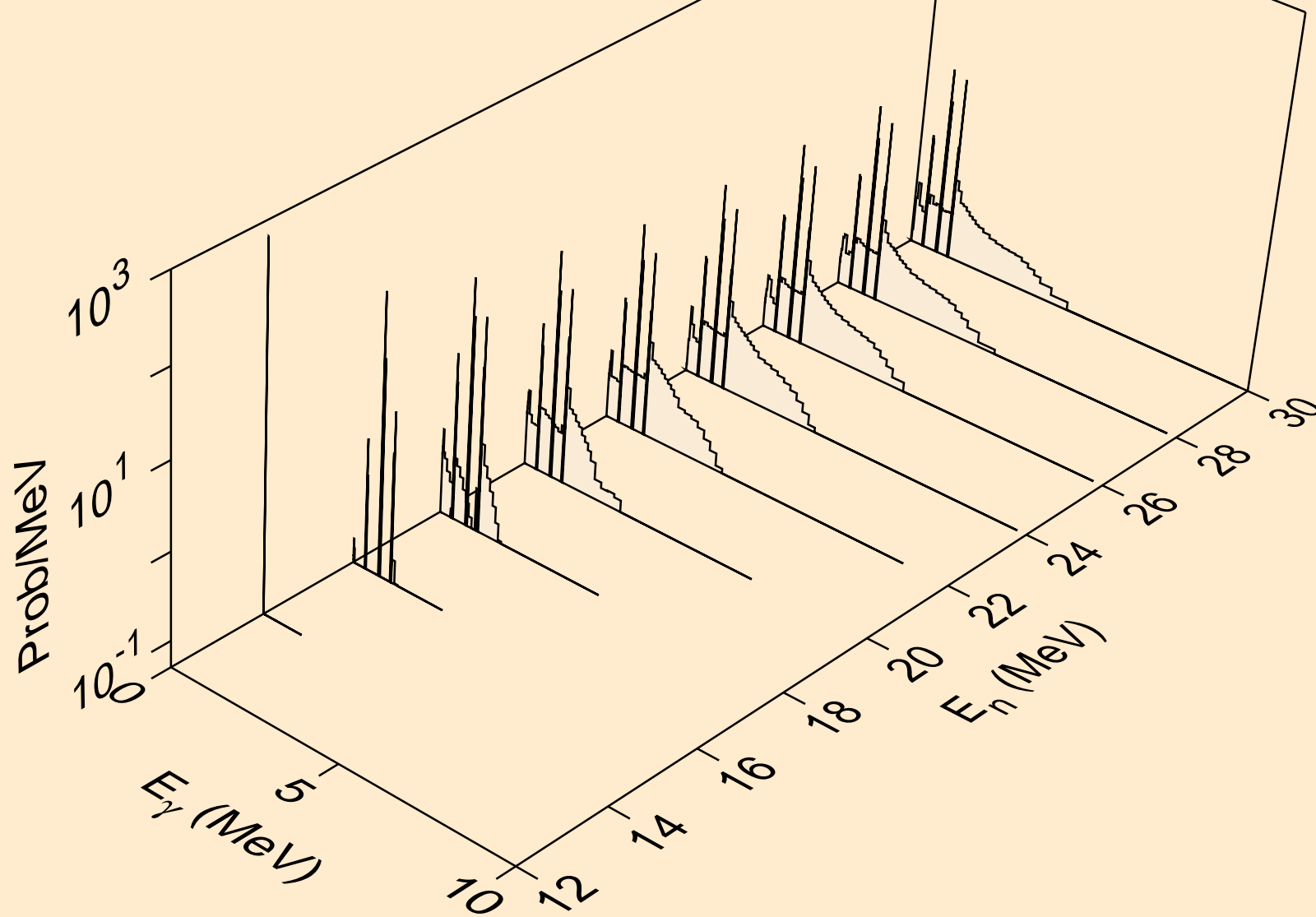
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Photon emission for (n,d)



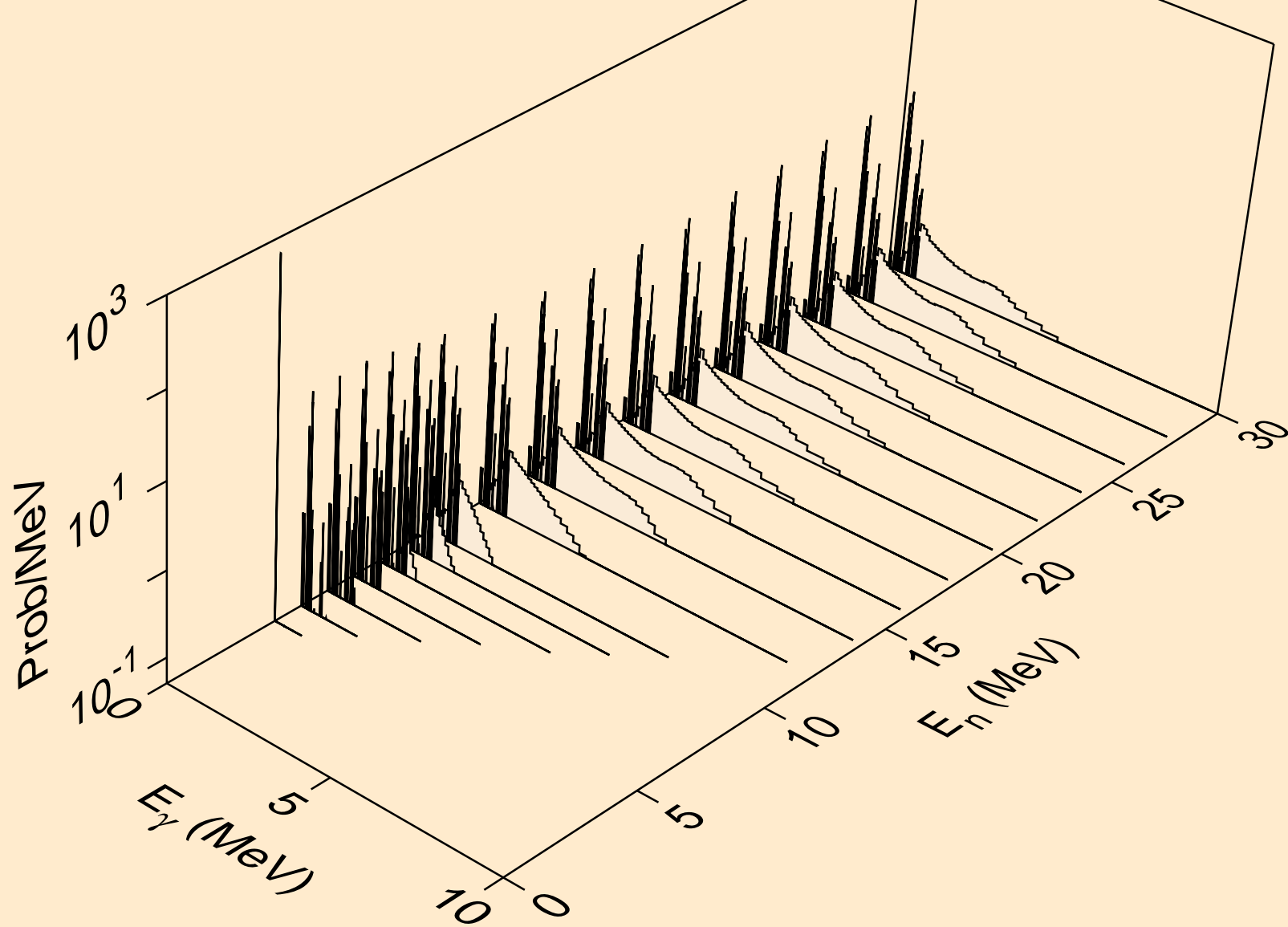
TI049 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,t)



TI049 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,he3)

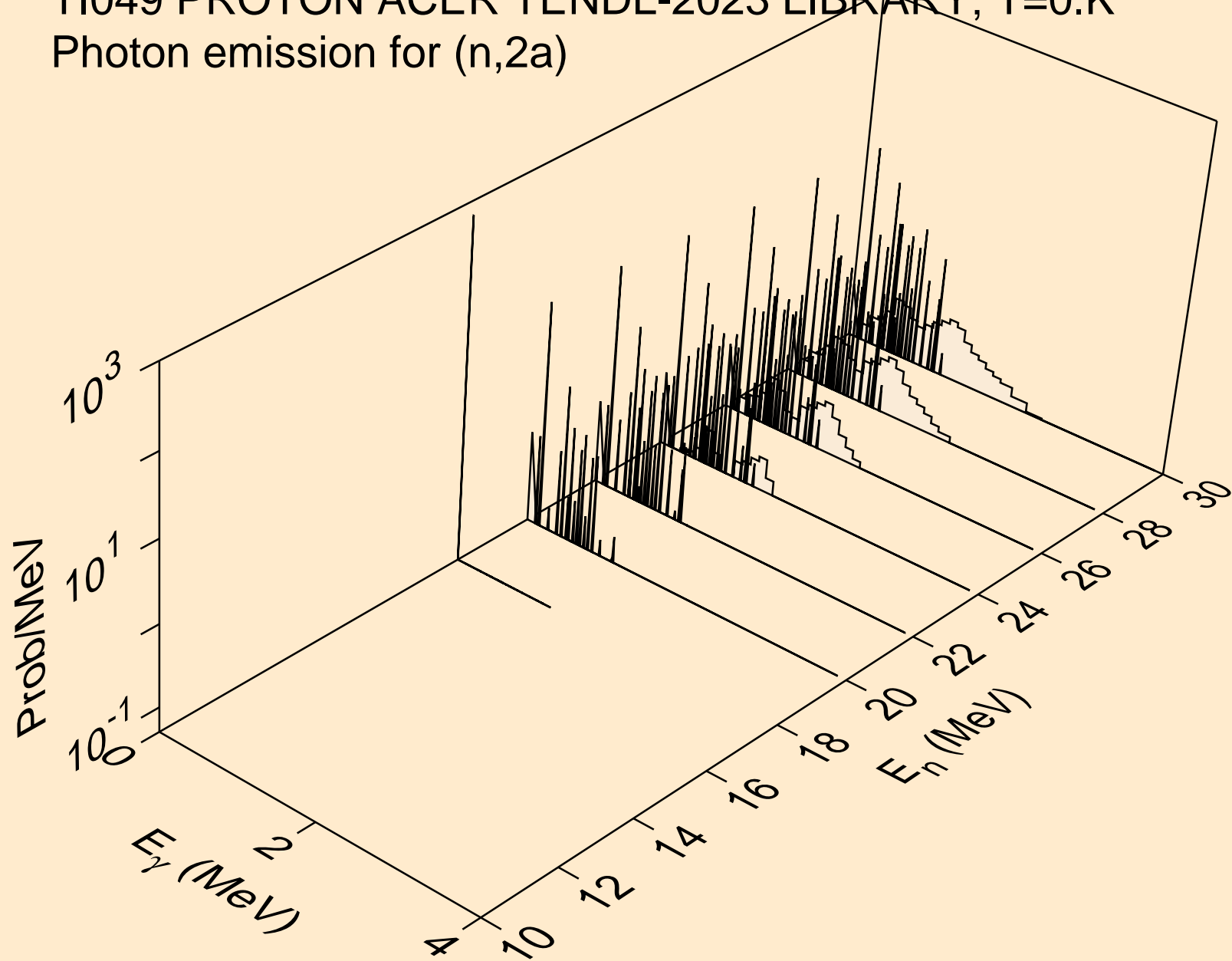


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Photon emission for (n,a)

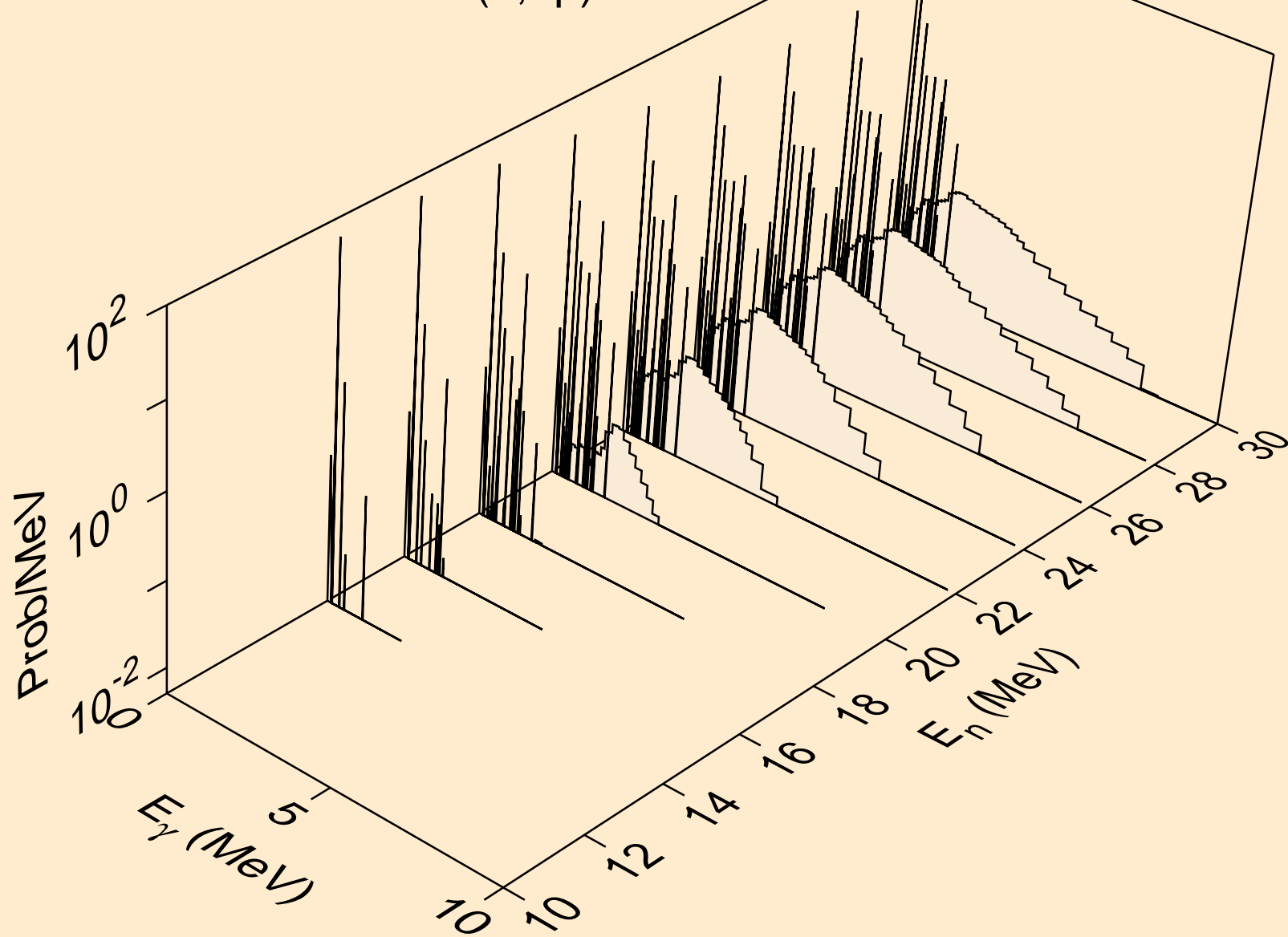




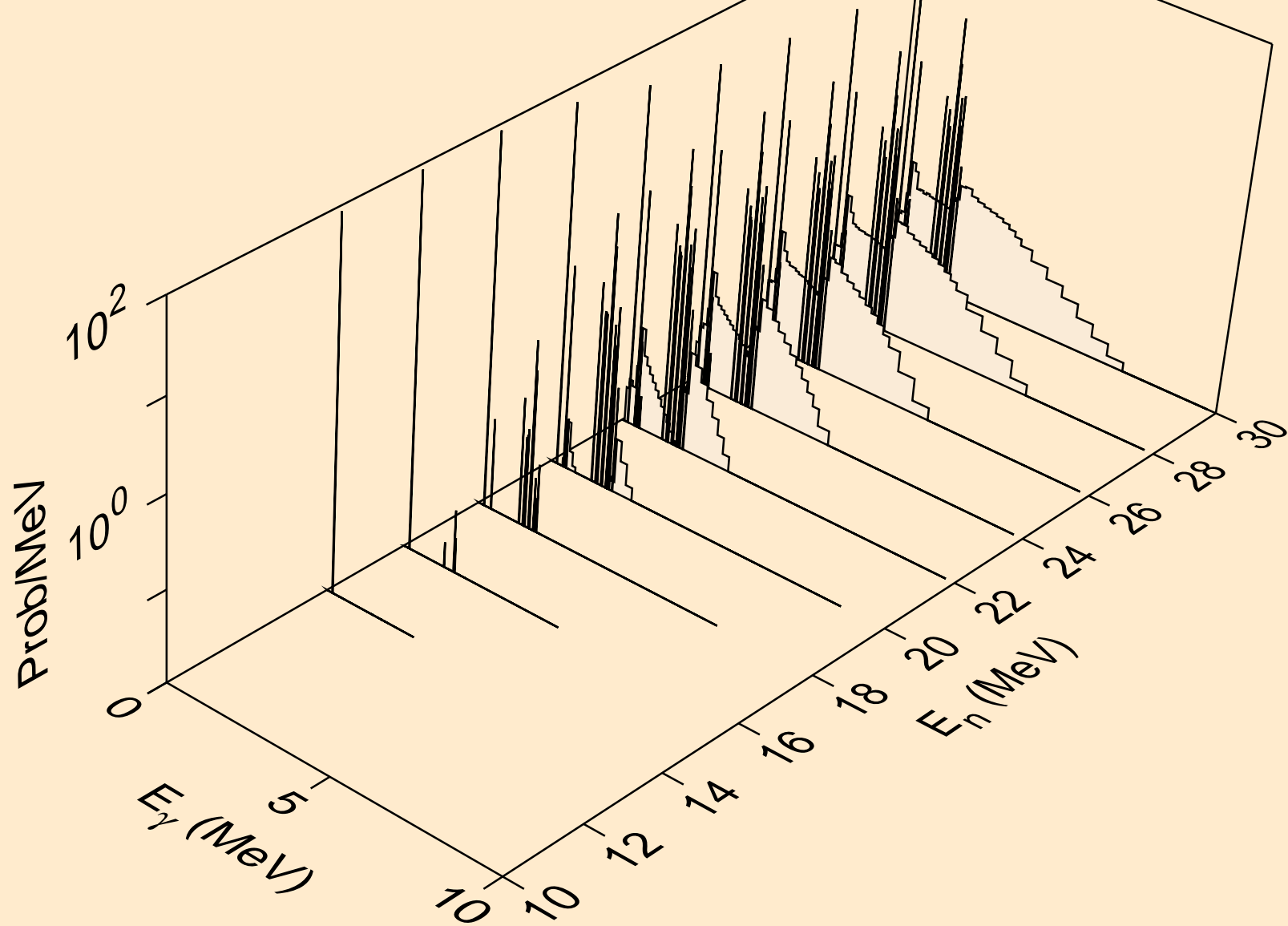
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Photon emission for (n,2a)



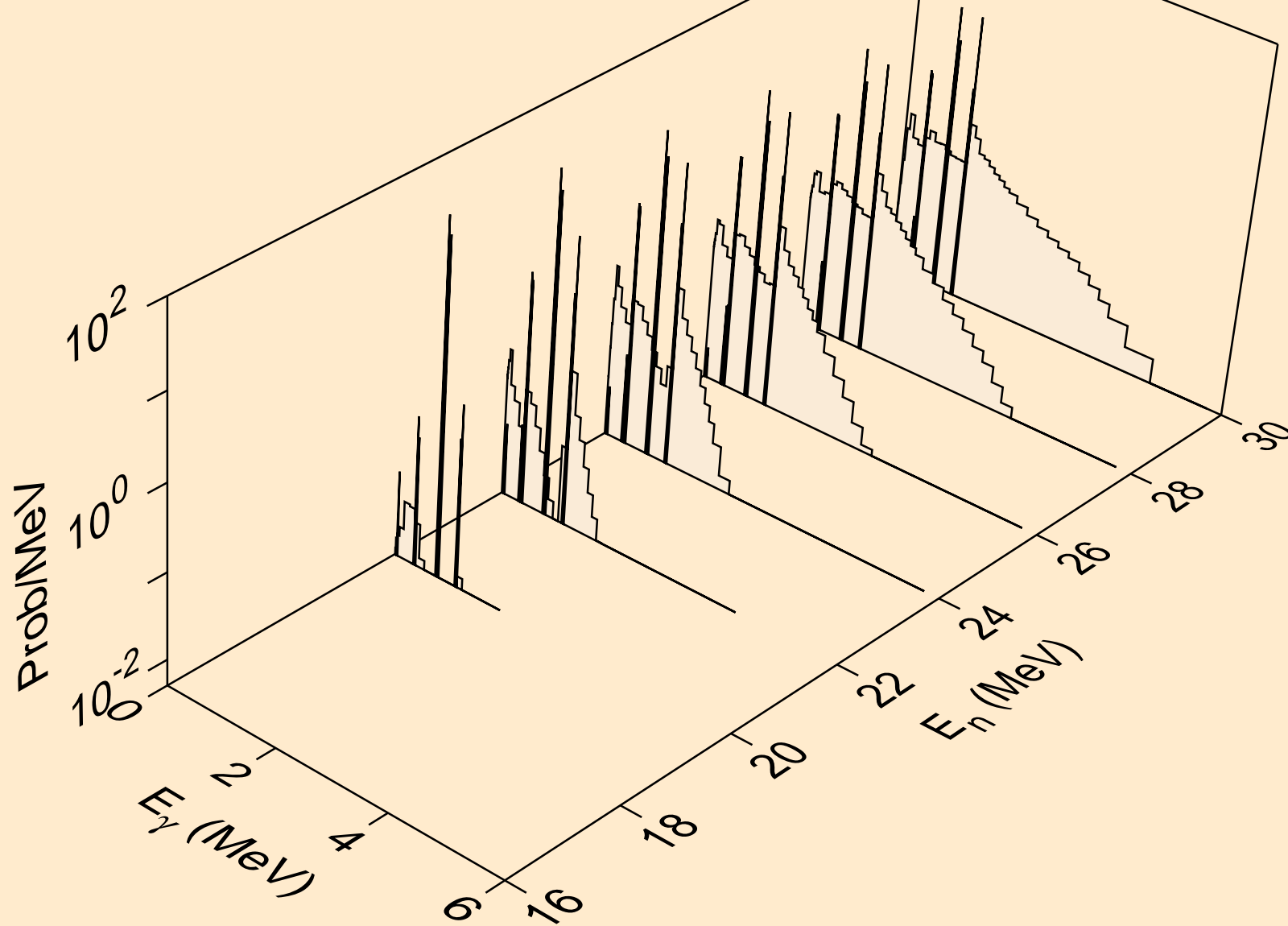
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Photon emission for (n,2p)



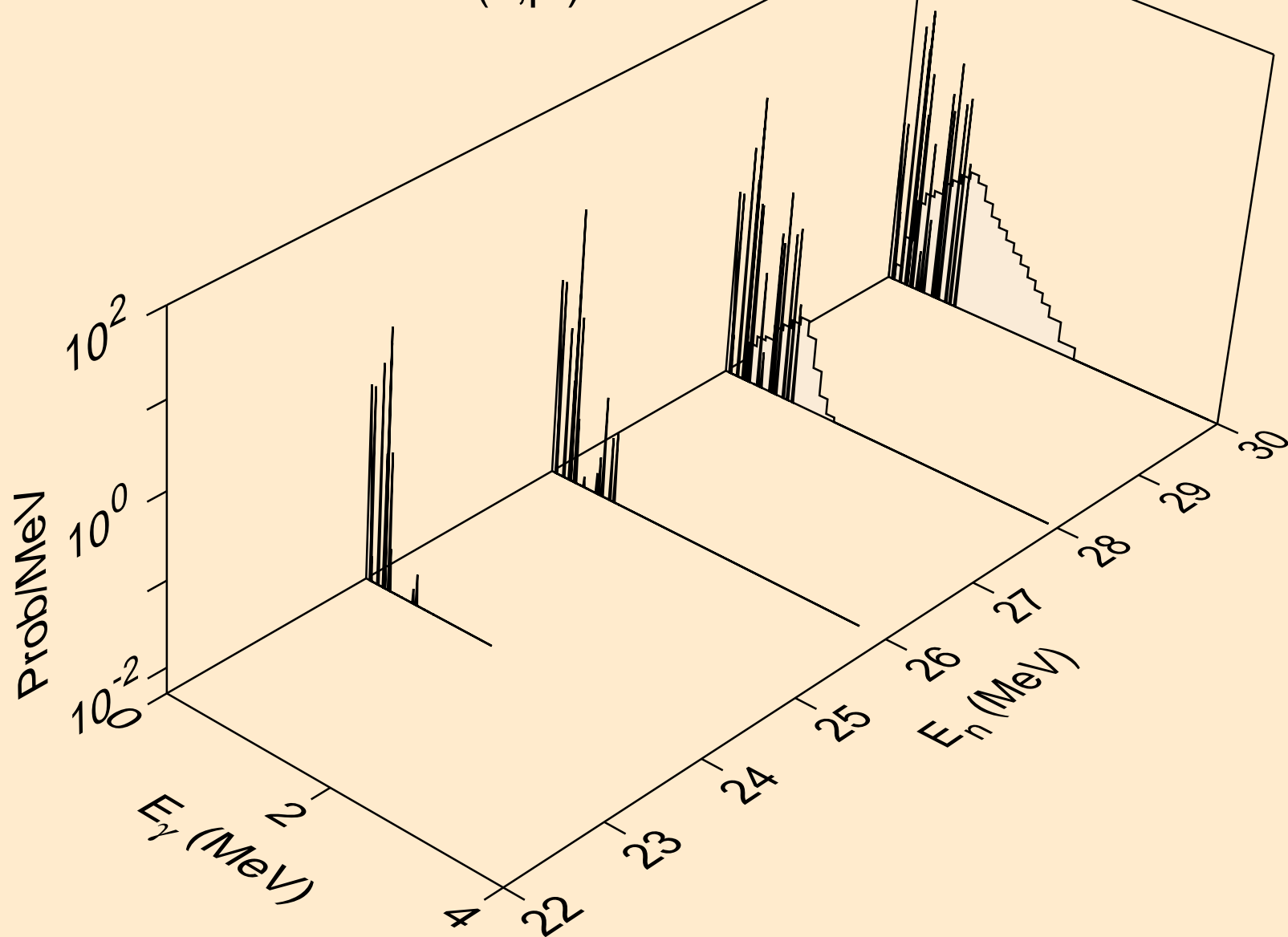
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Photon emission for (n,p)



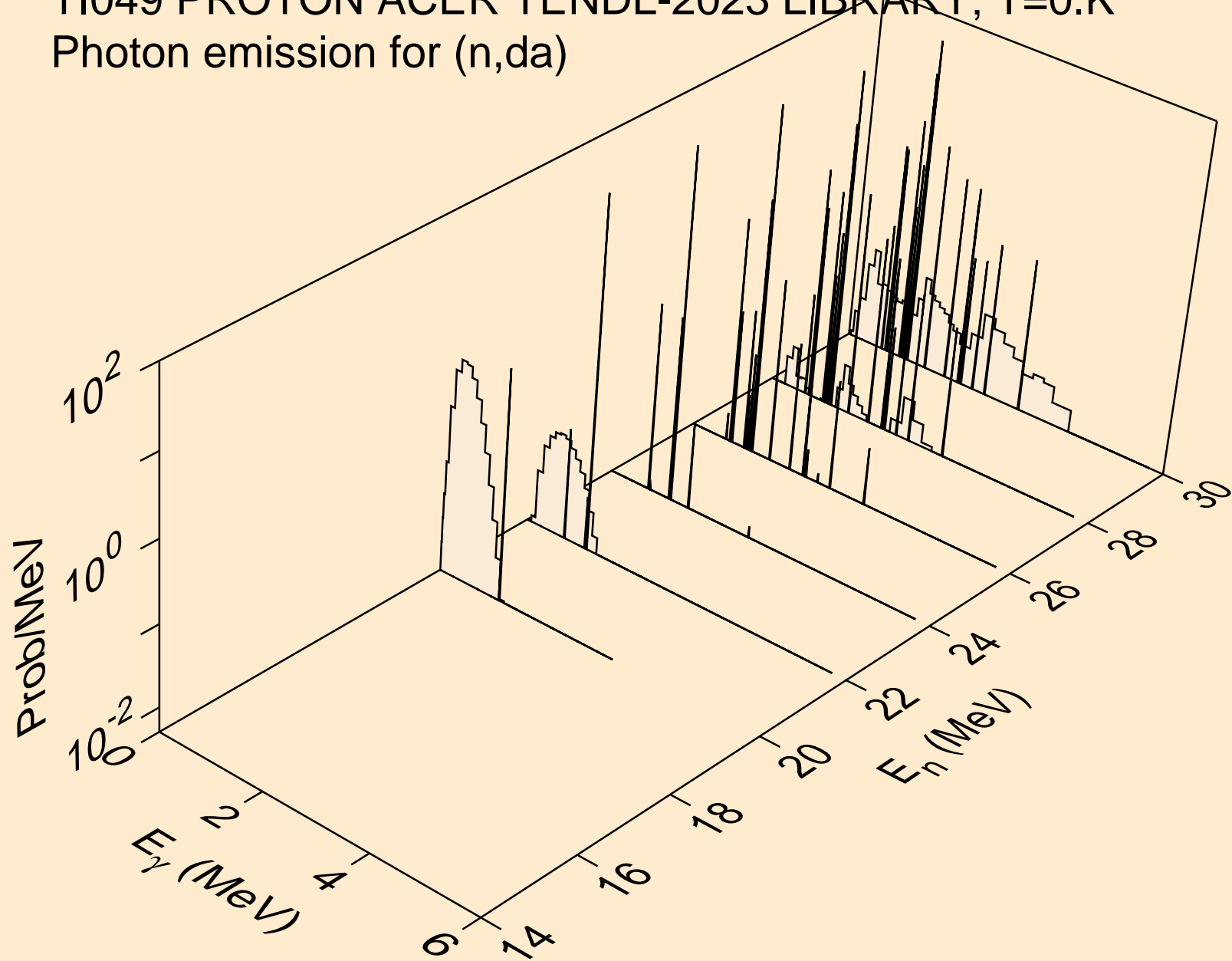
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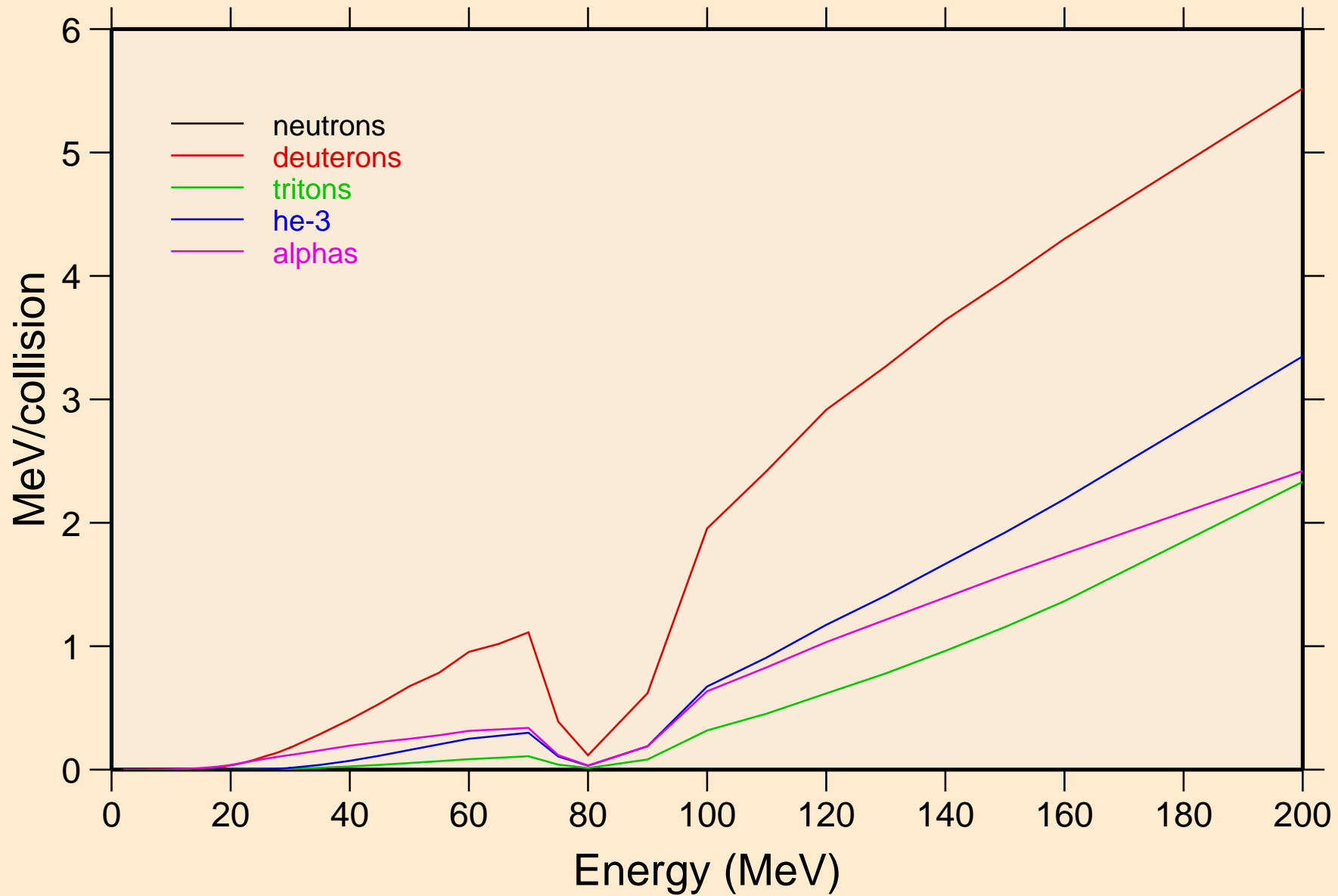
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Photon emission for (n,pt)



TI049 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,da)

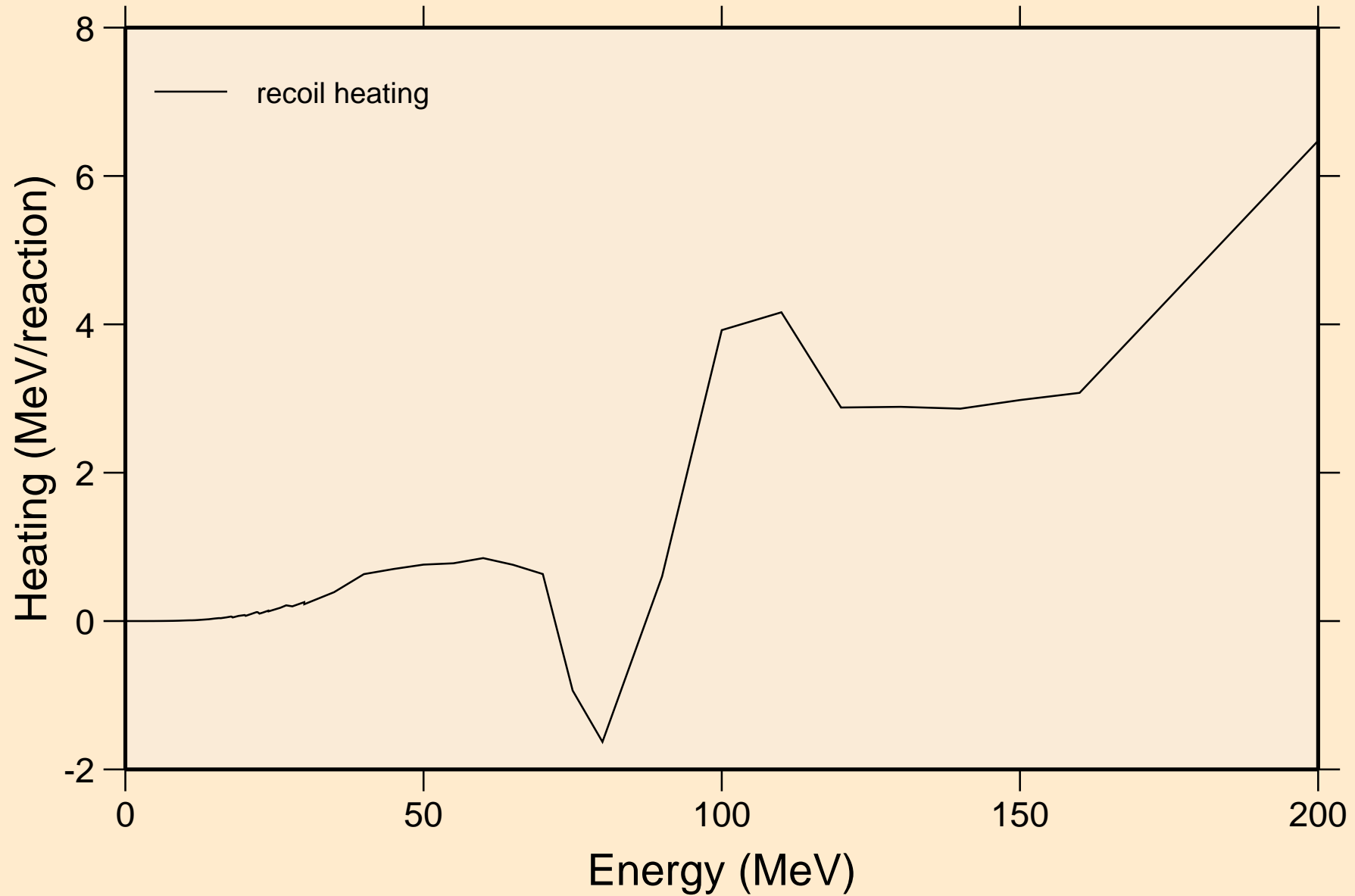


TI049 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Particle heating contributions



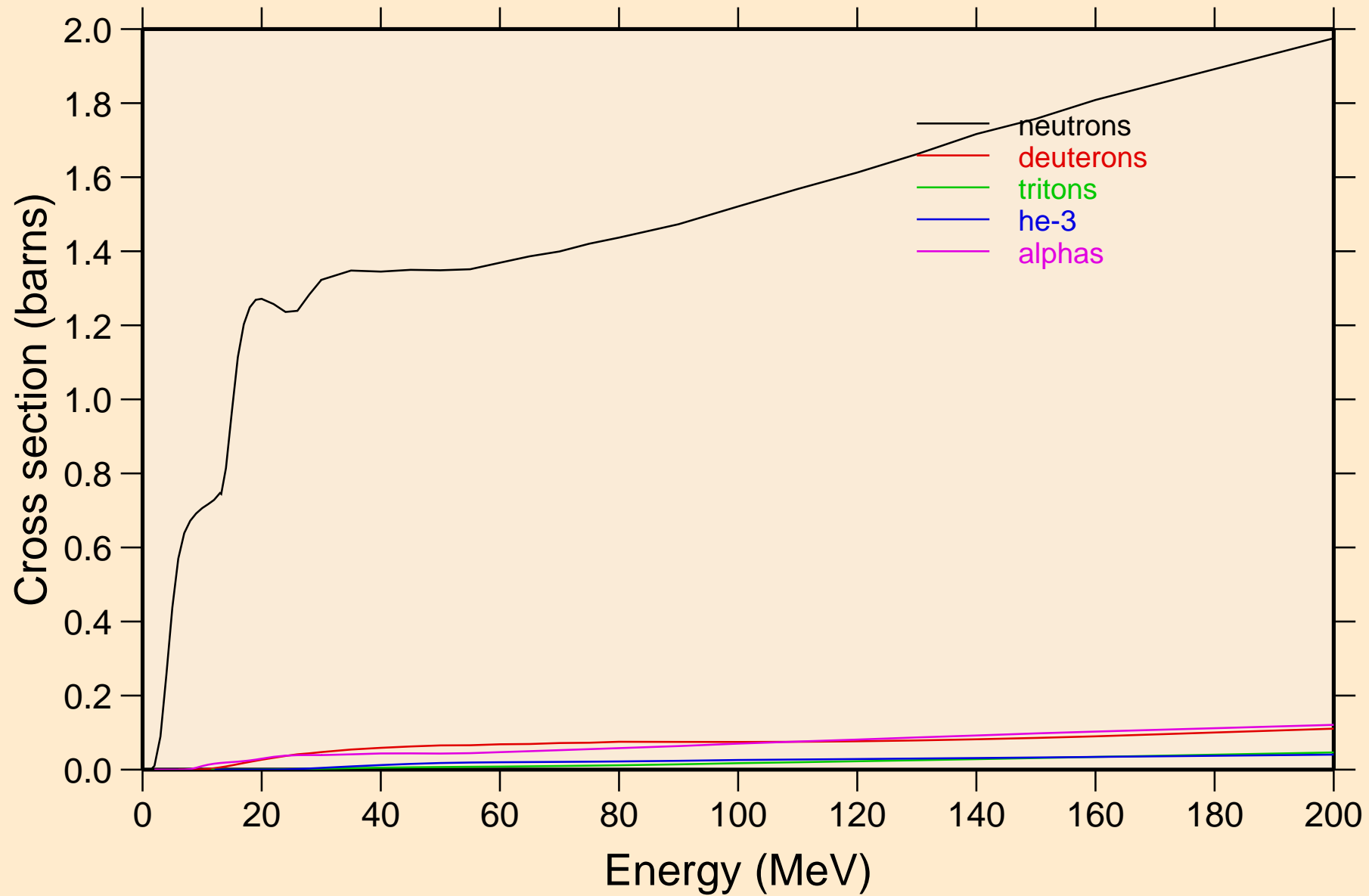
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## Recoil Heating

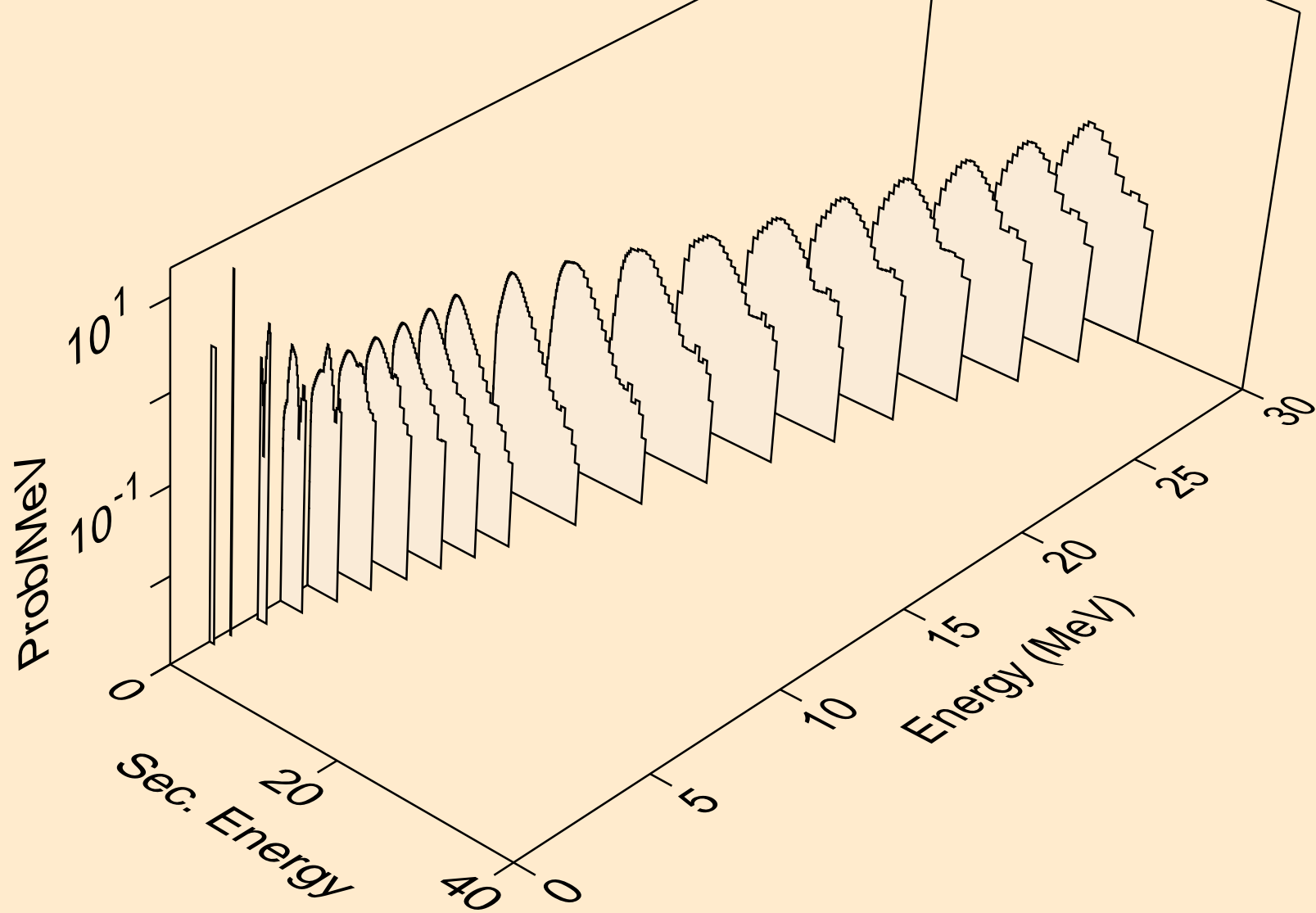




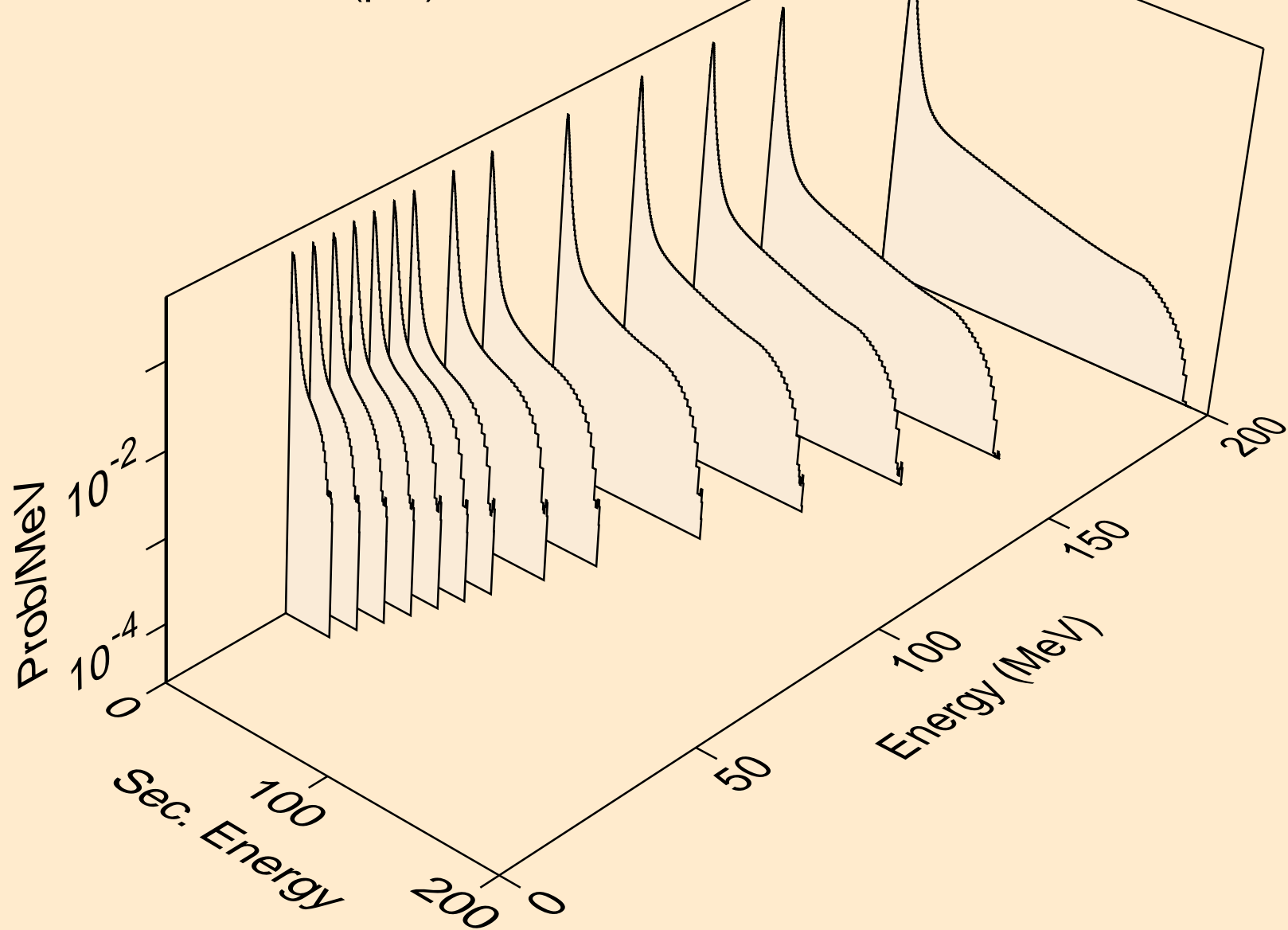
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Particle production cross sections



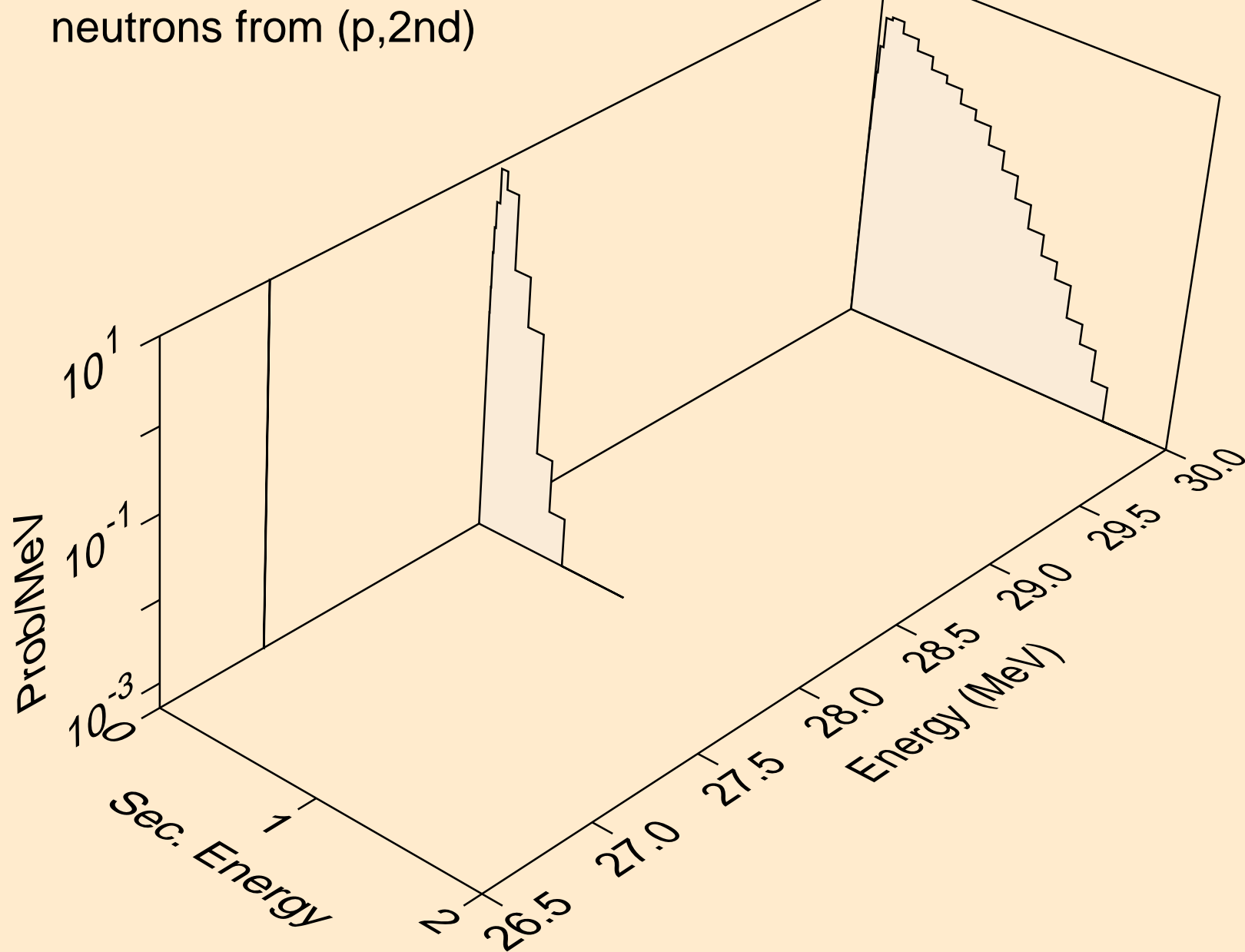
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neutrons from (p,n)



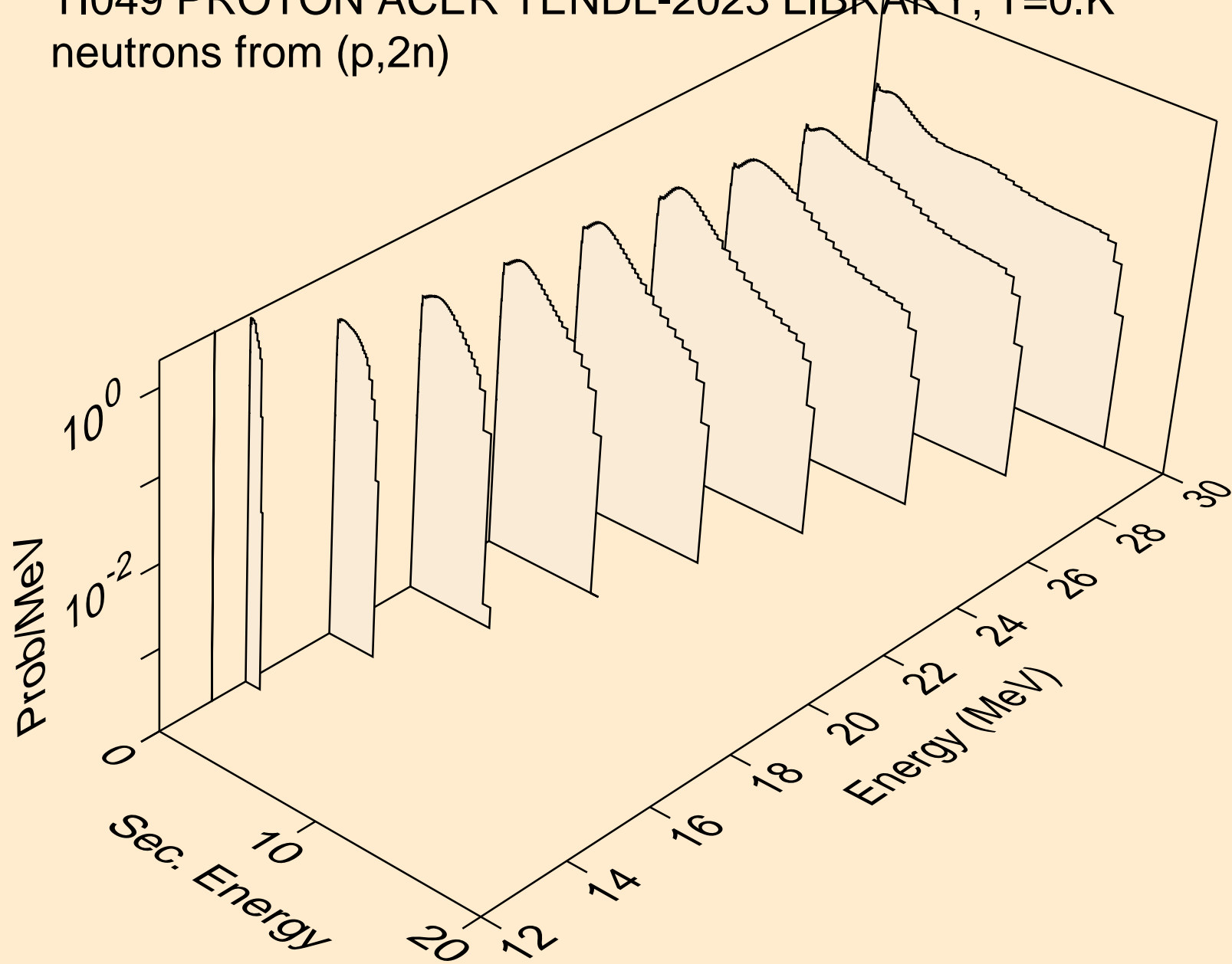
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neutrons from (p,x)



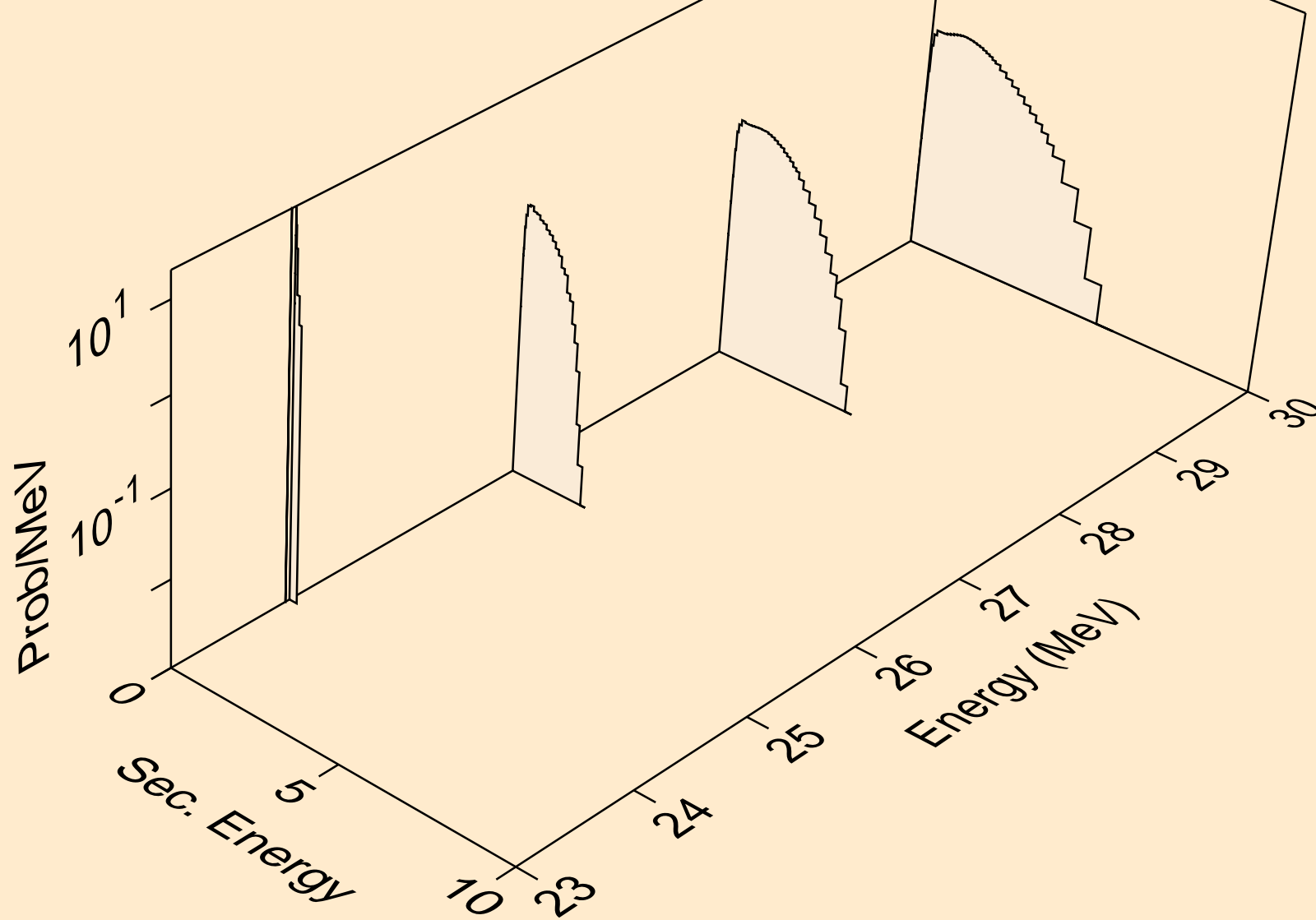
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neutrons from (p,2nd)



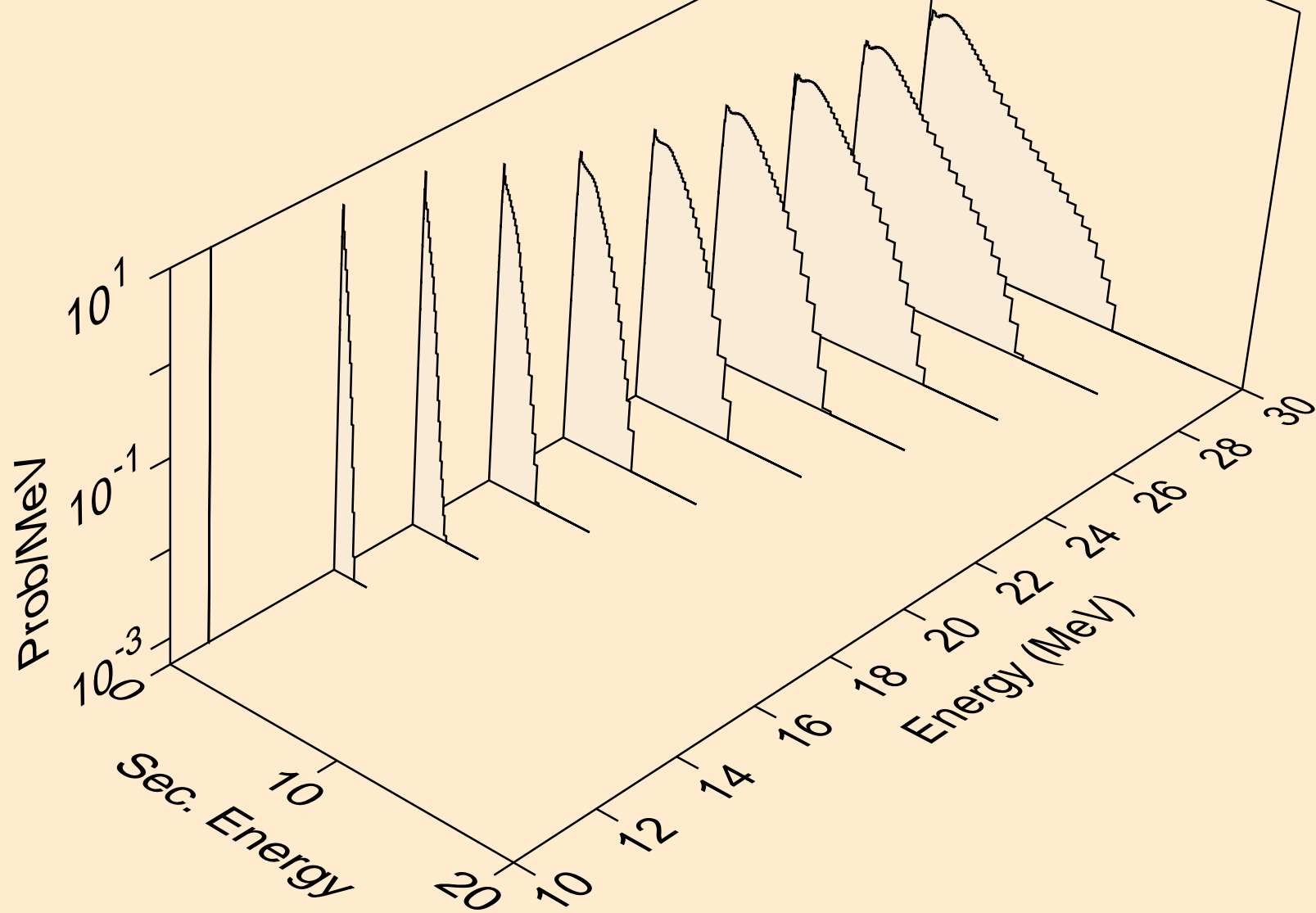
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neutrons from (p,2n)



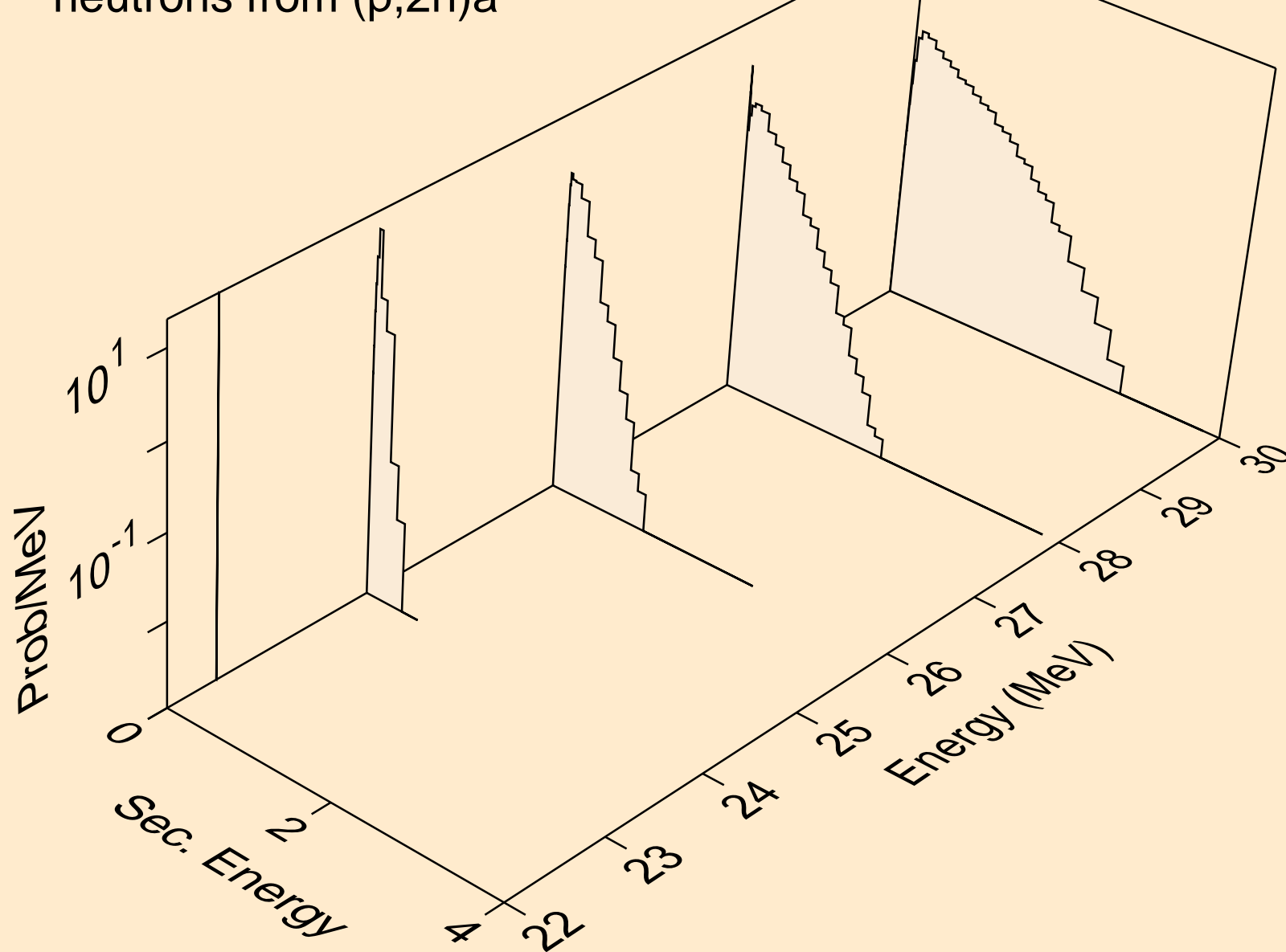
TI049 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (p,3n)



TI049 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (p,n\*)a

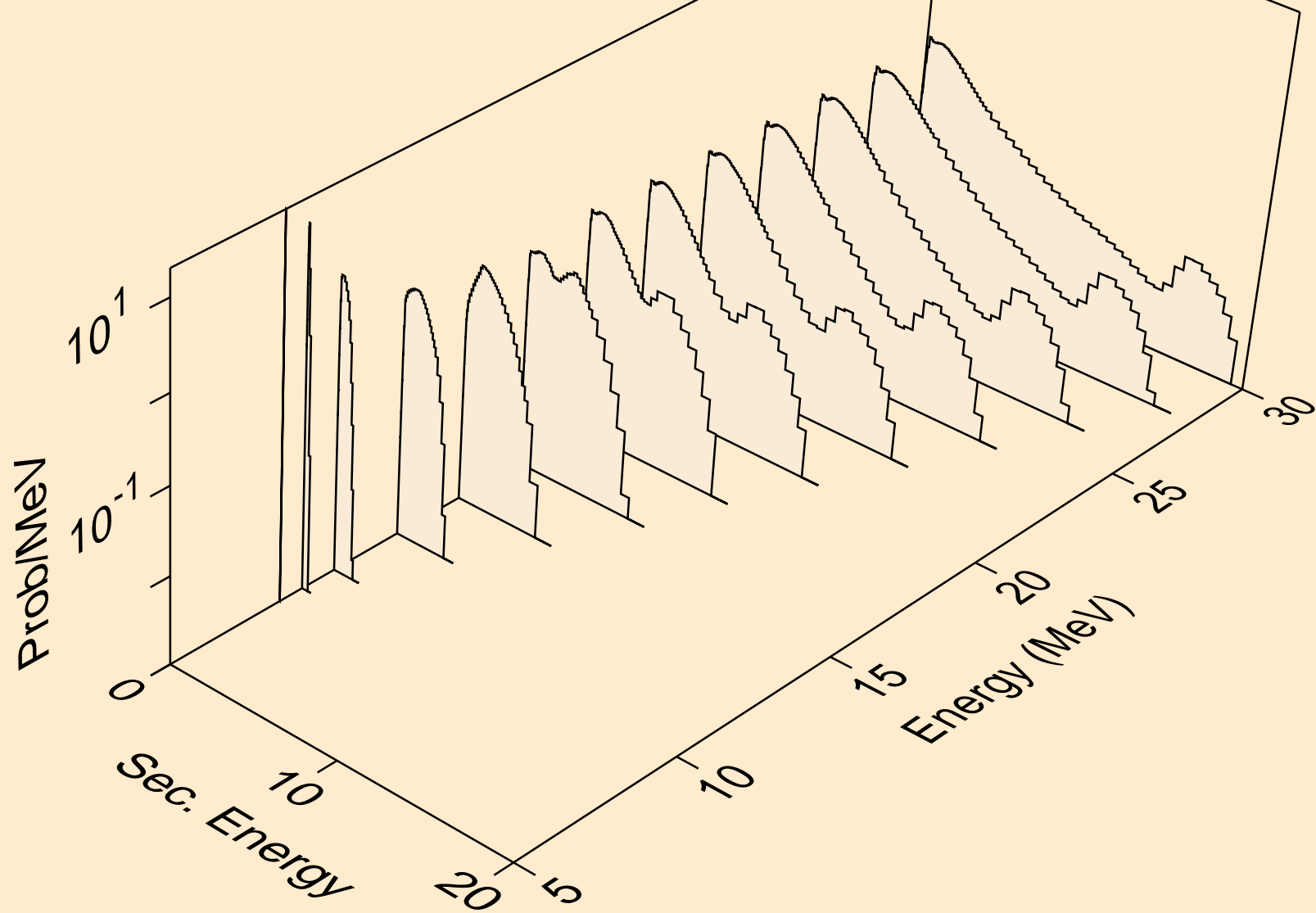


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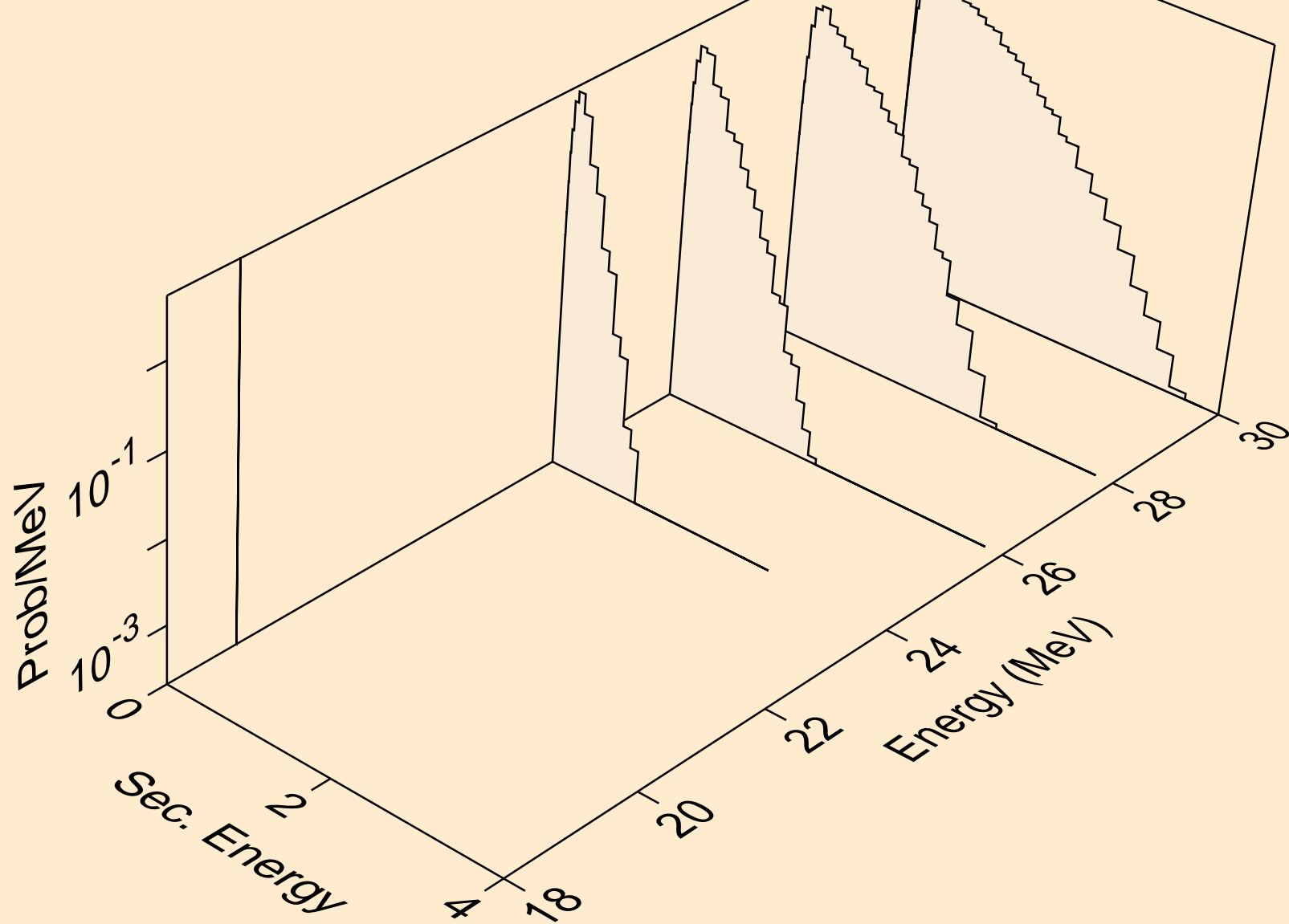




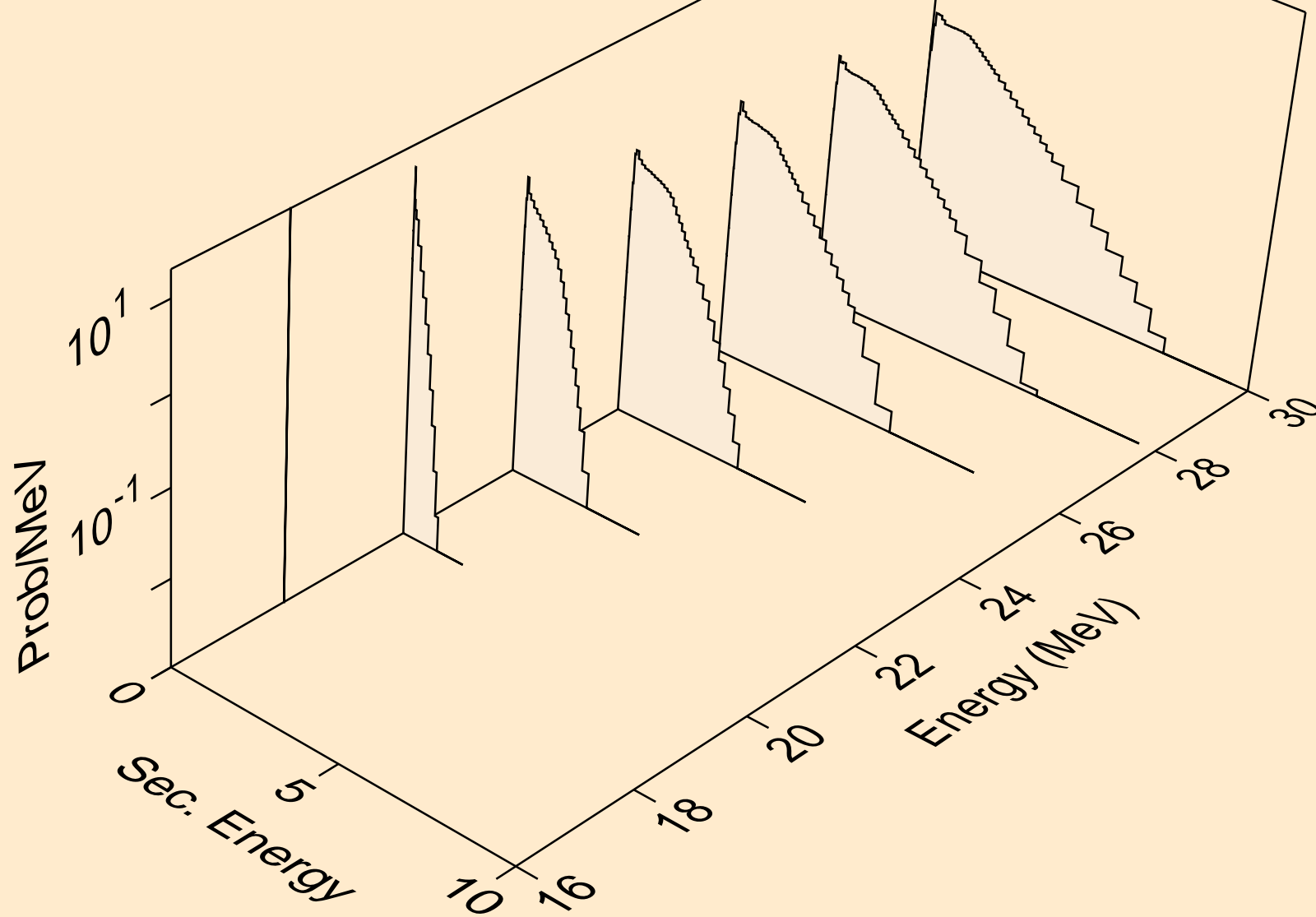
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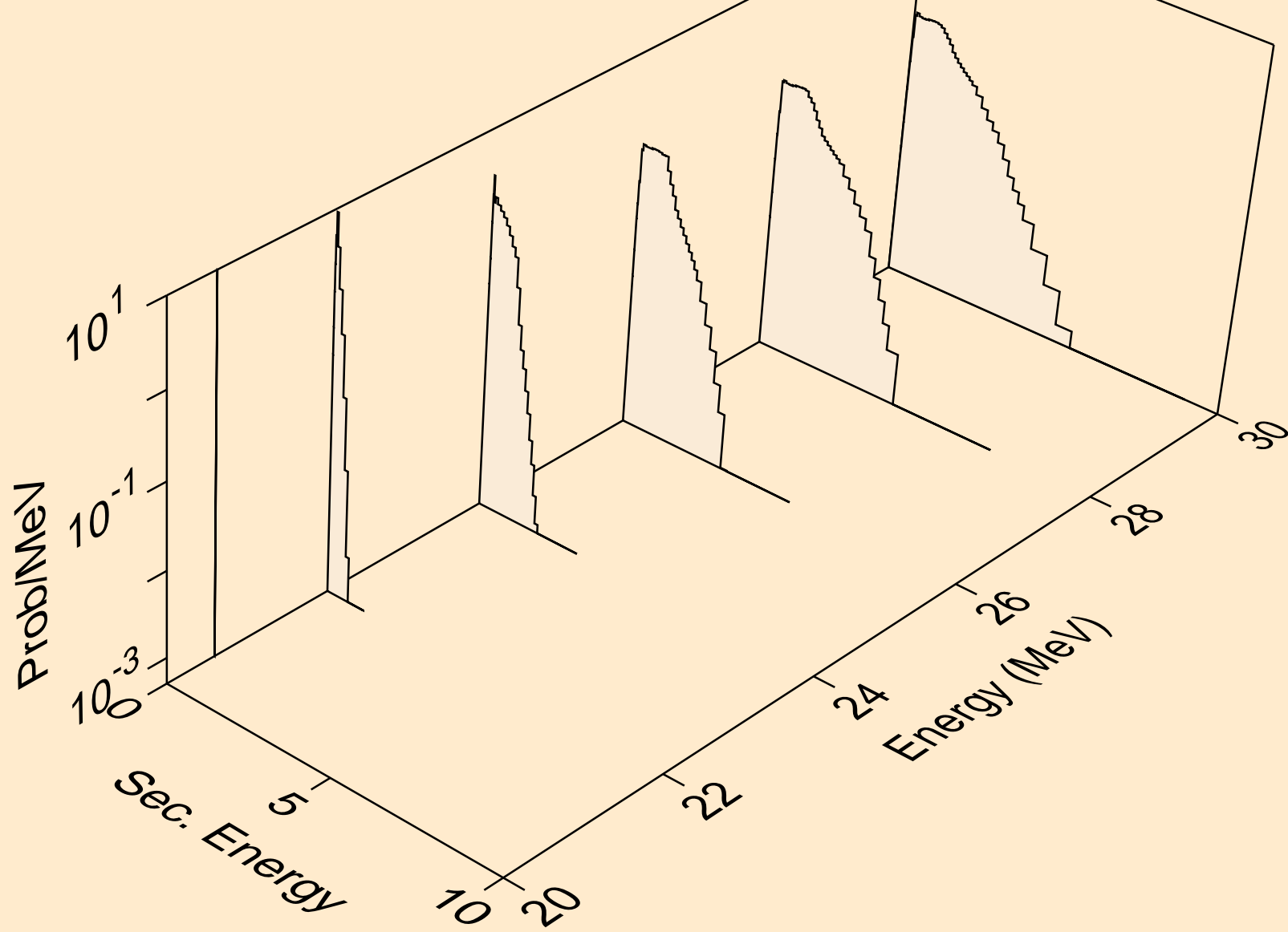
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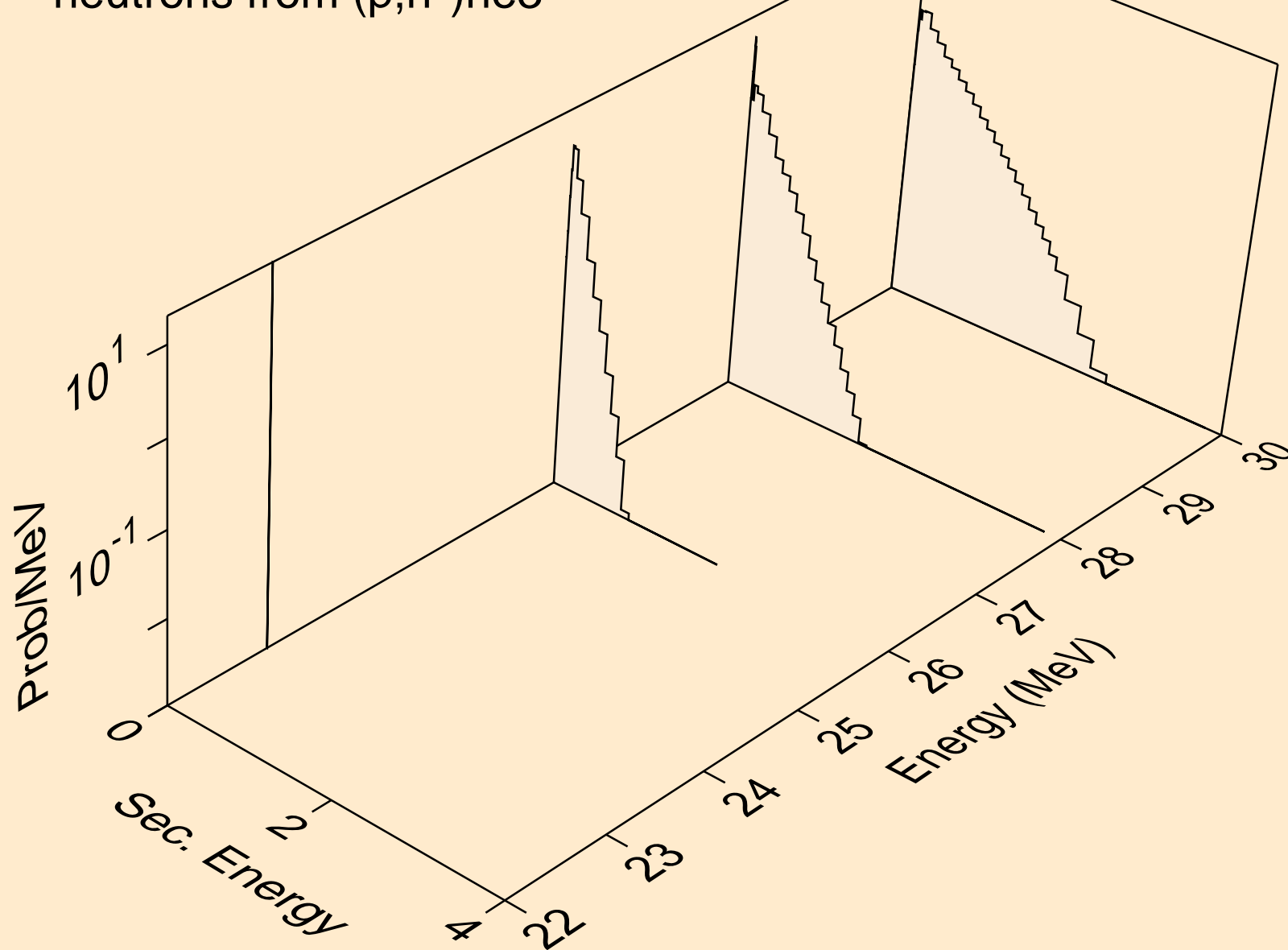
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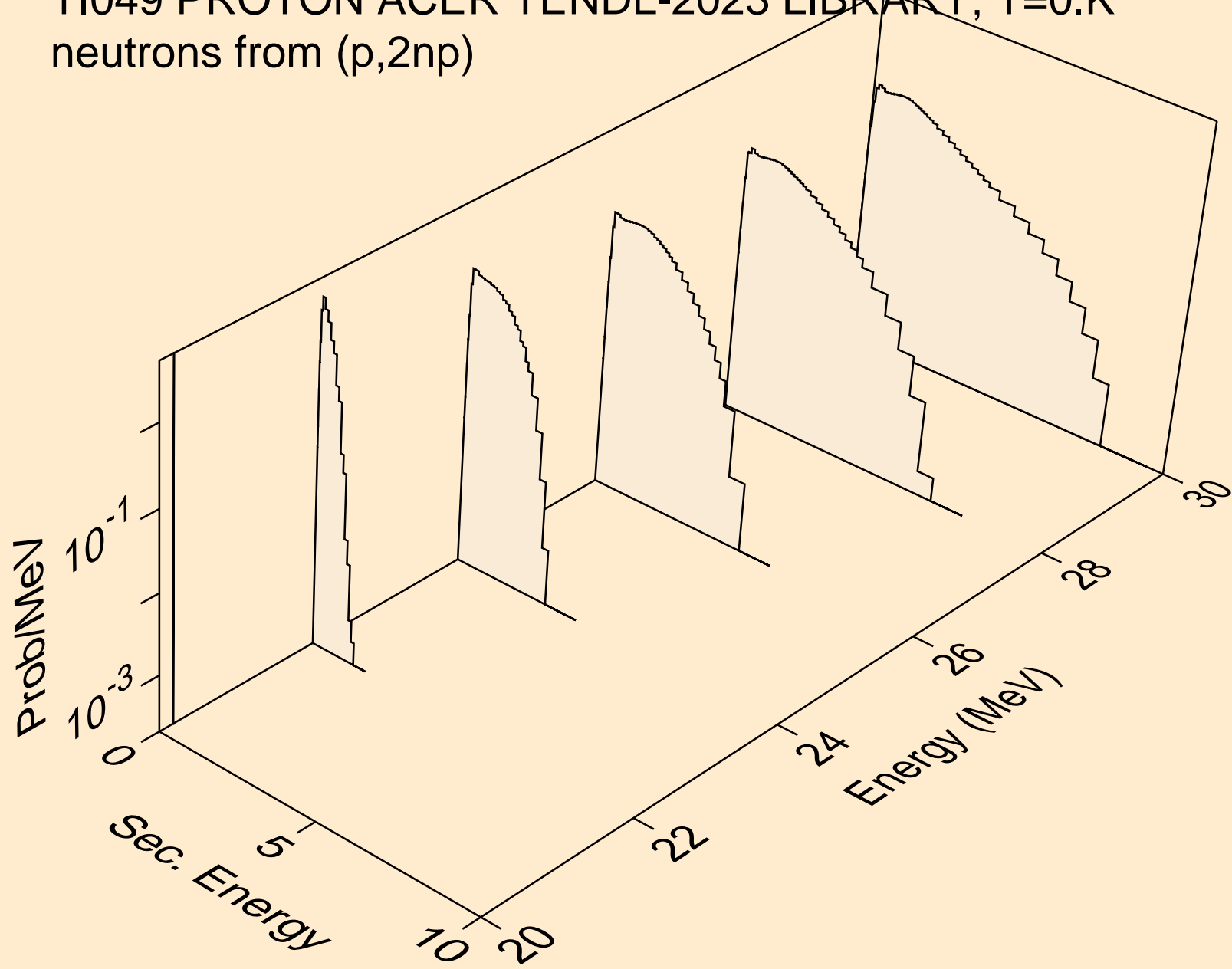
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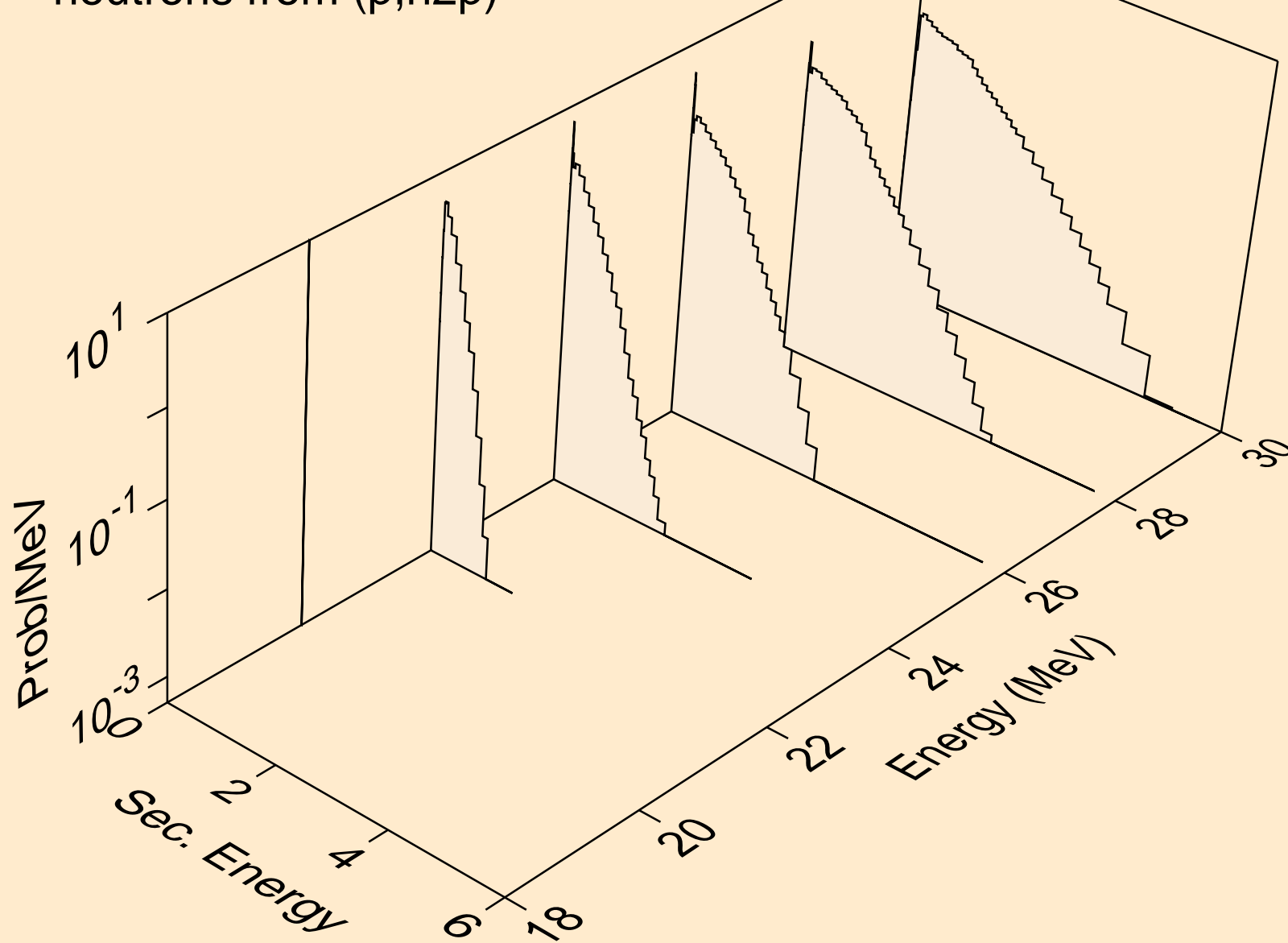
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neutrons from (p,n\*)he3



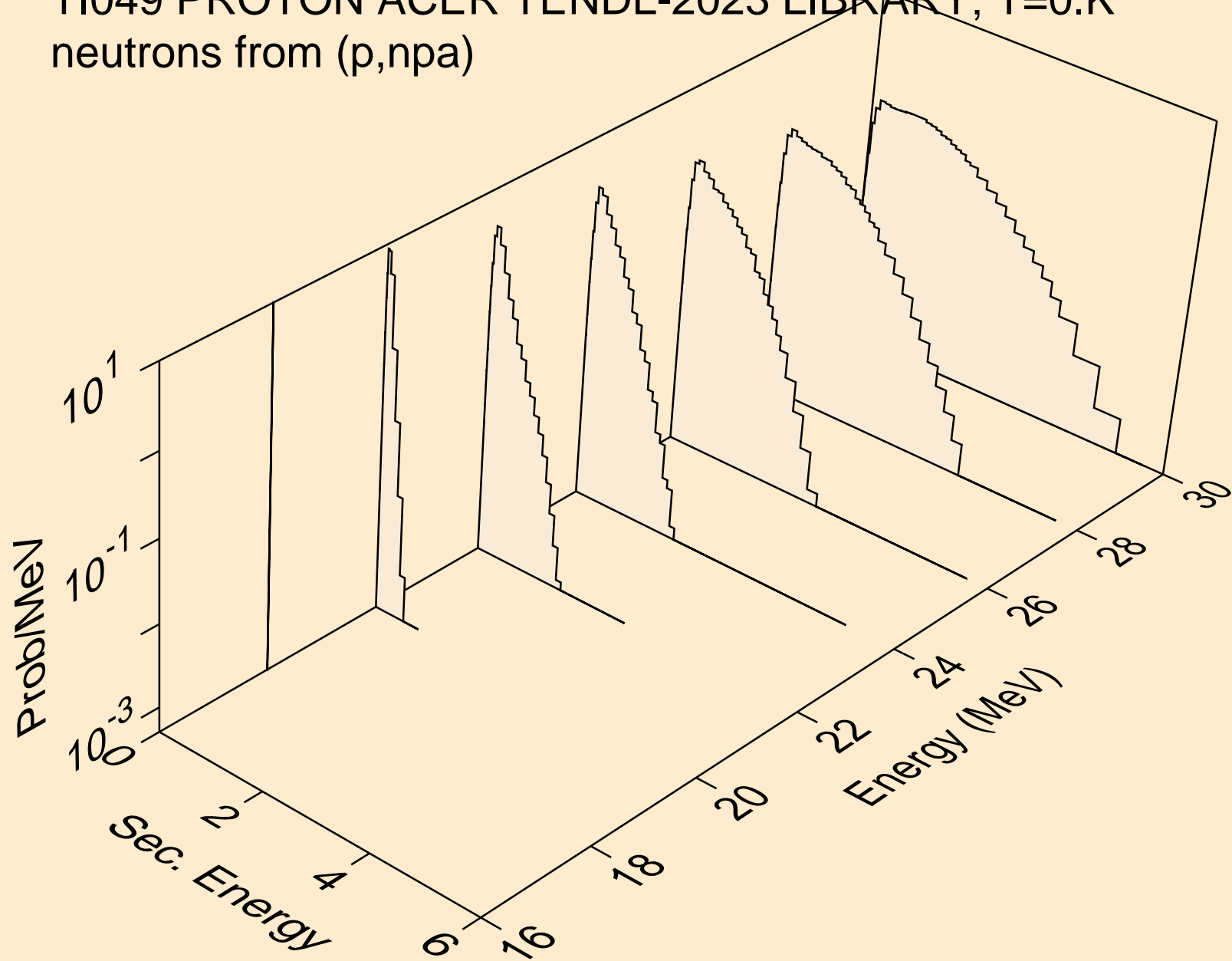
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neutrons from (p,2np)



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neutrons from (p,n2p)

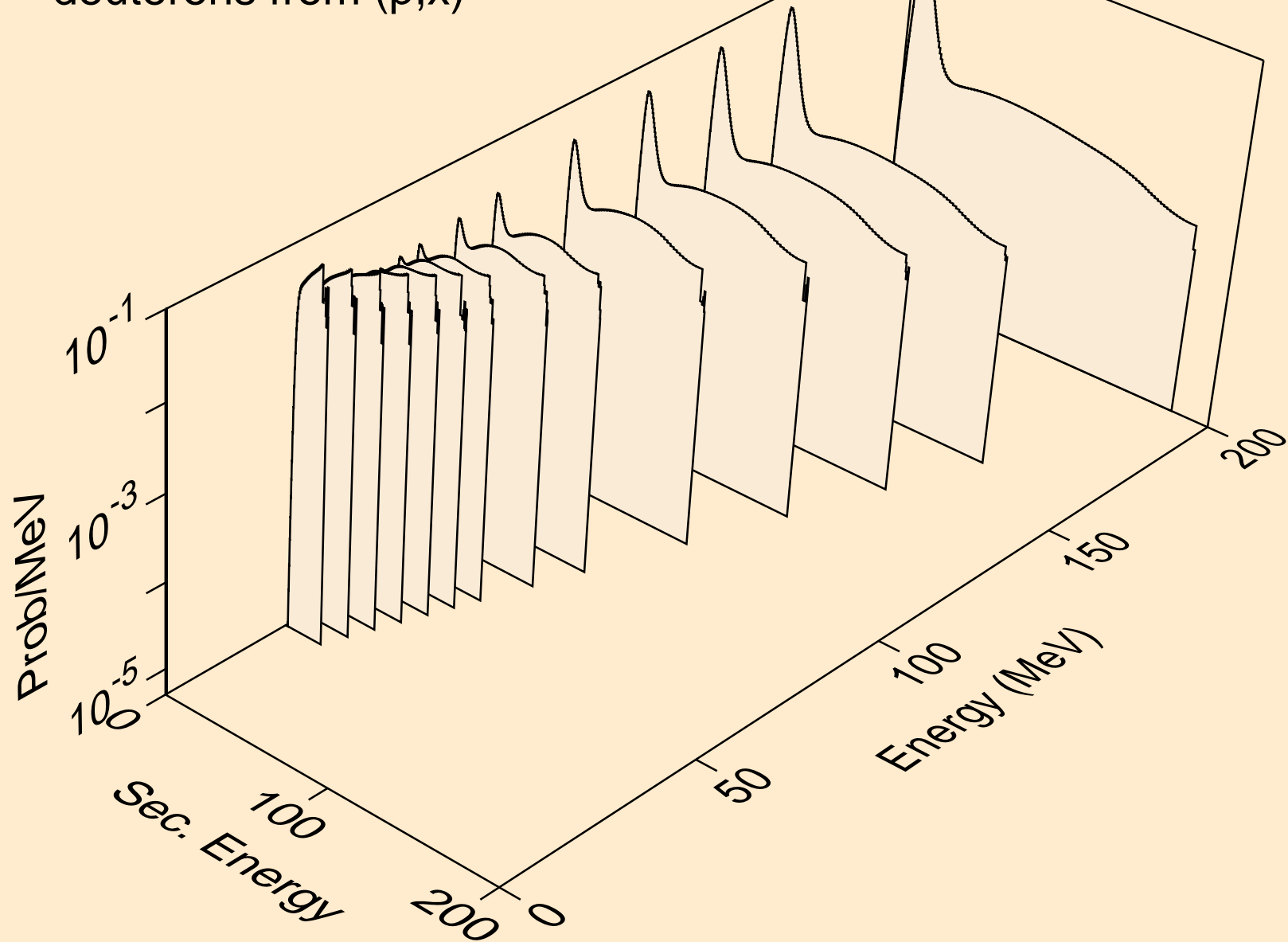


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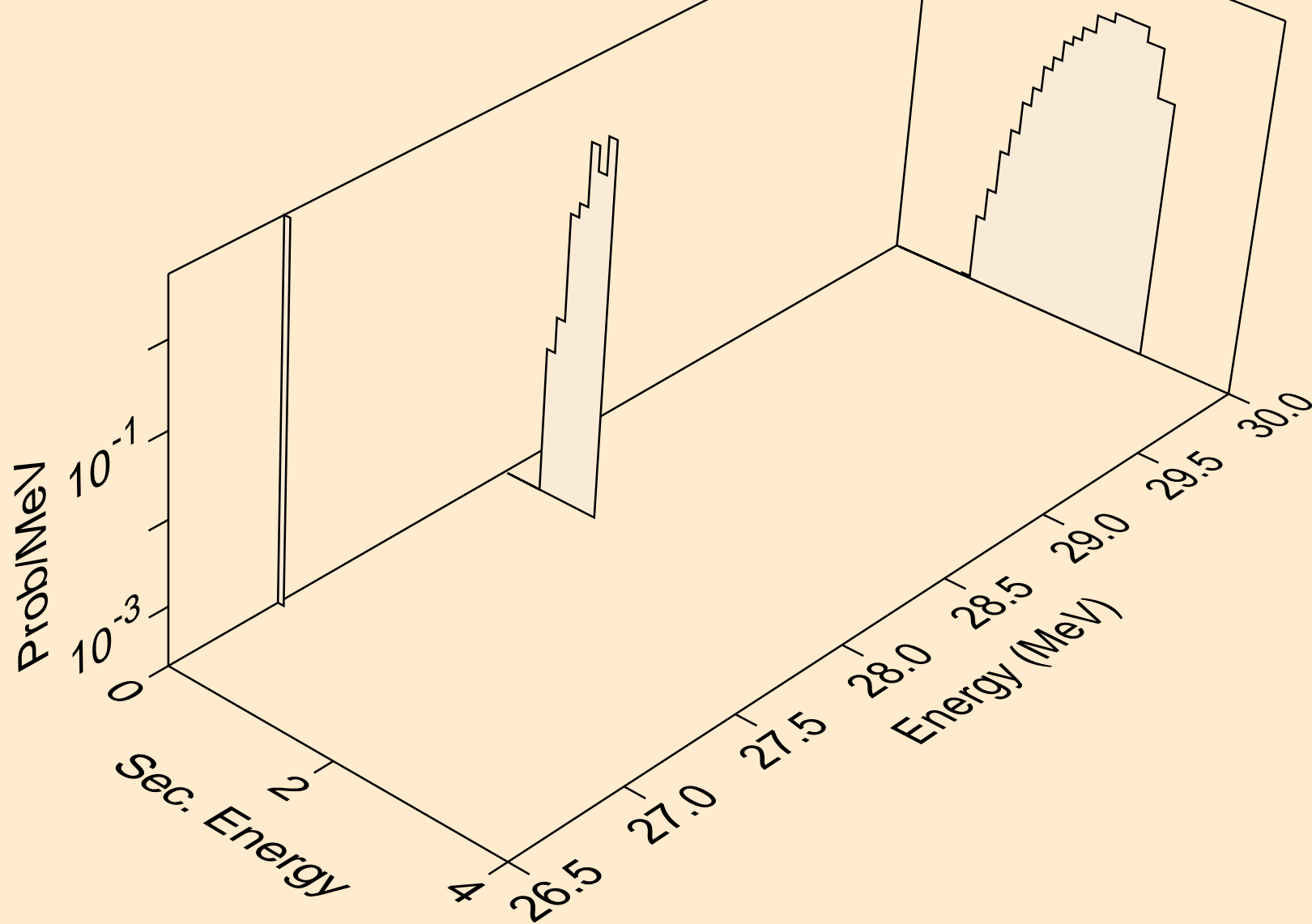




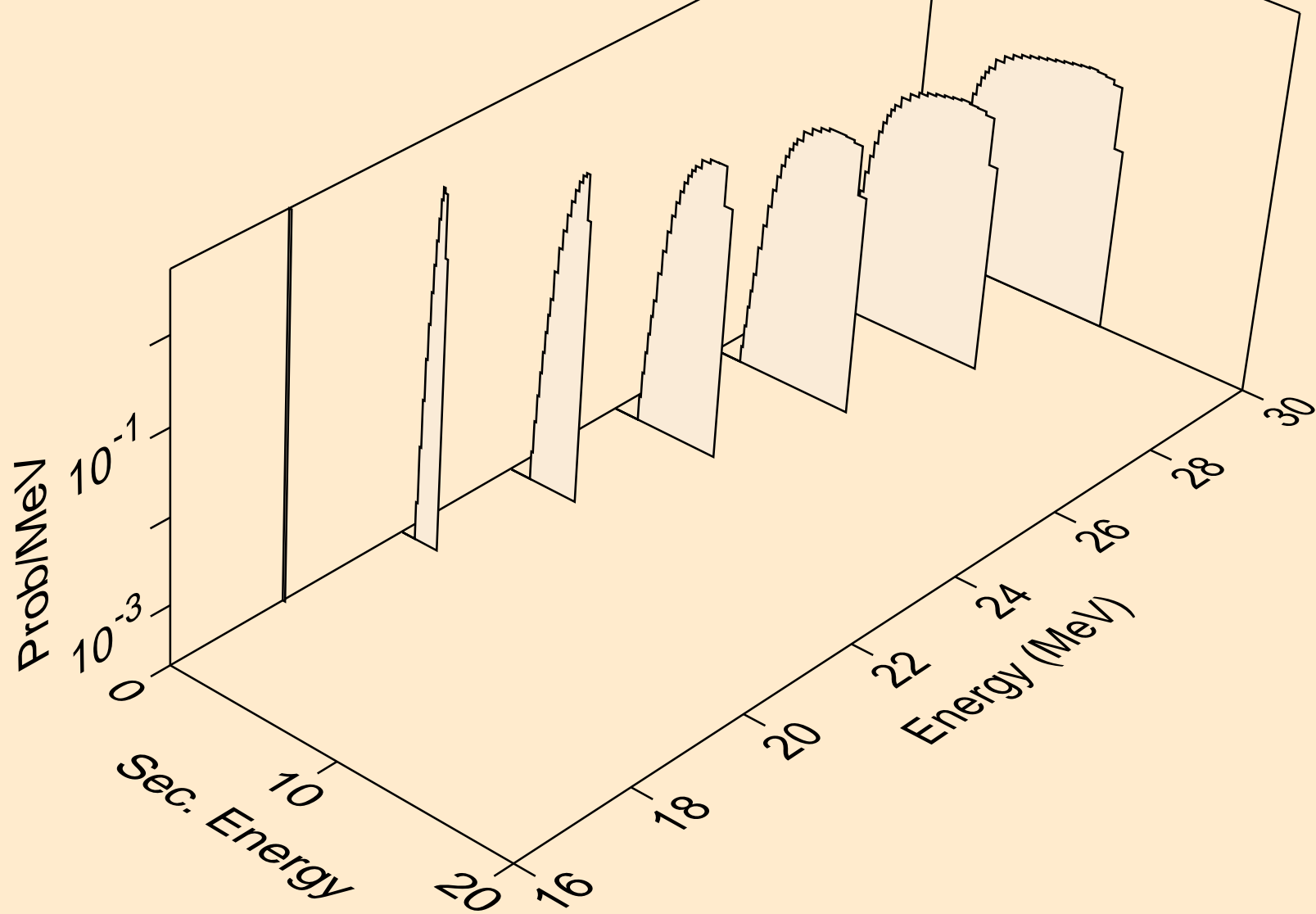
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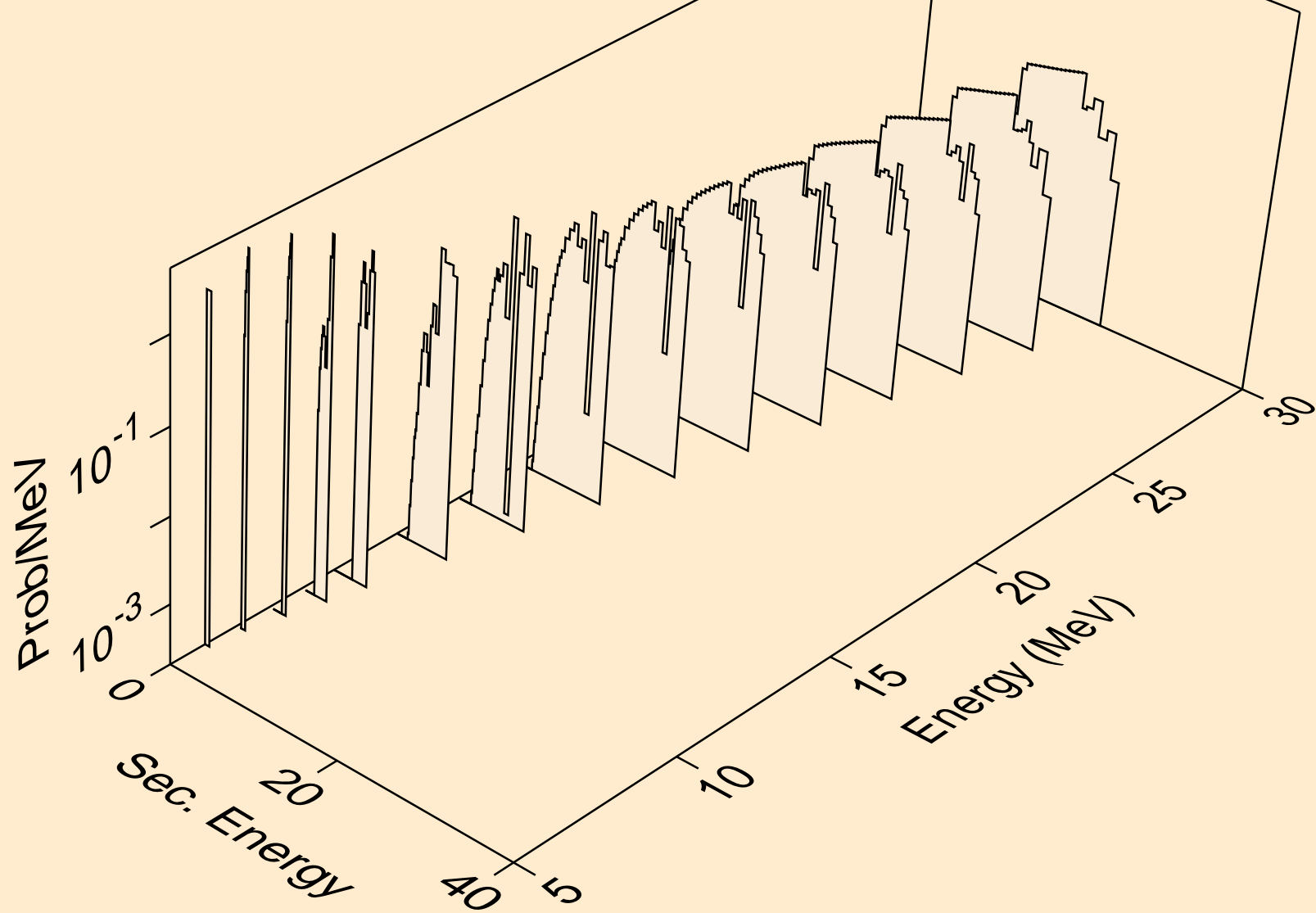
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deuterons from (p,2nd)



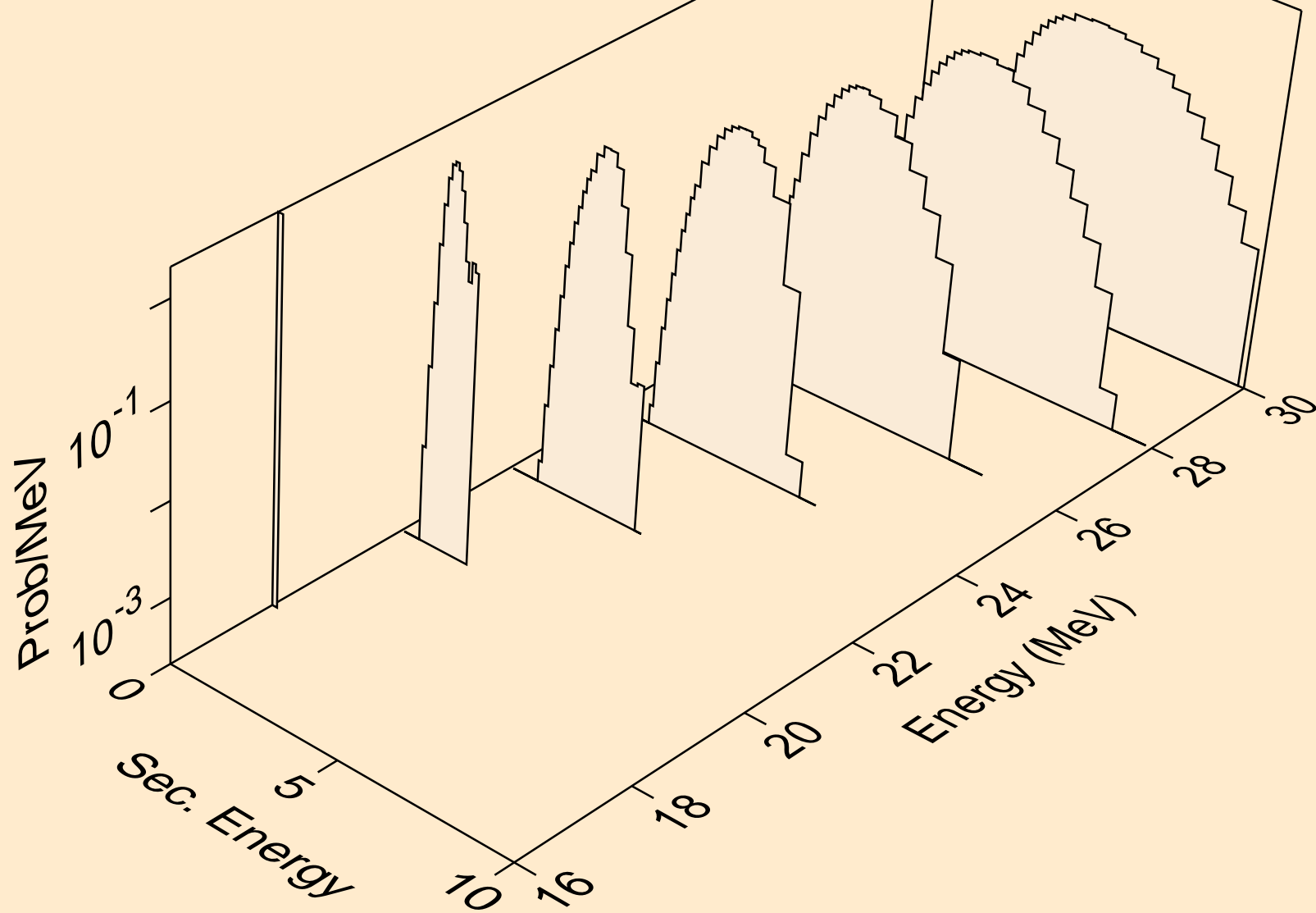
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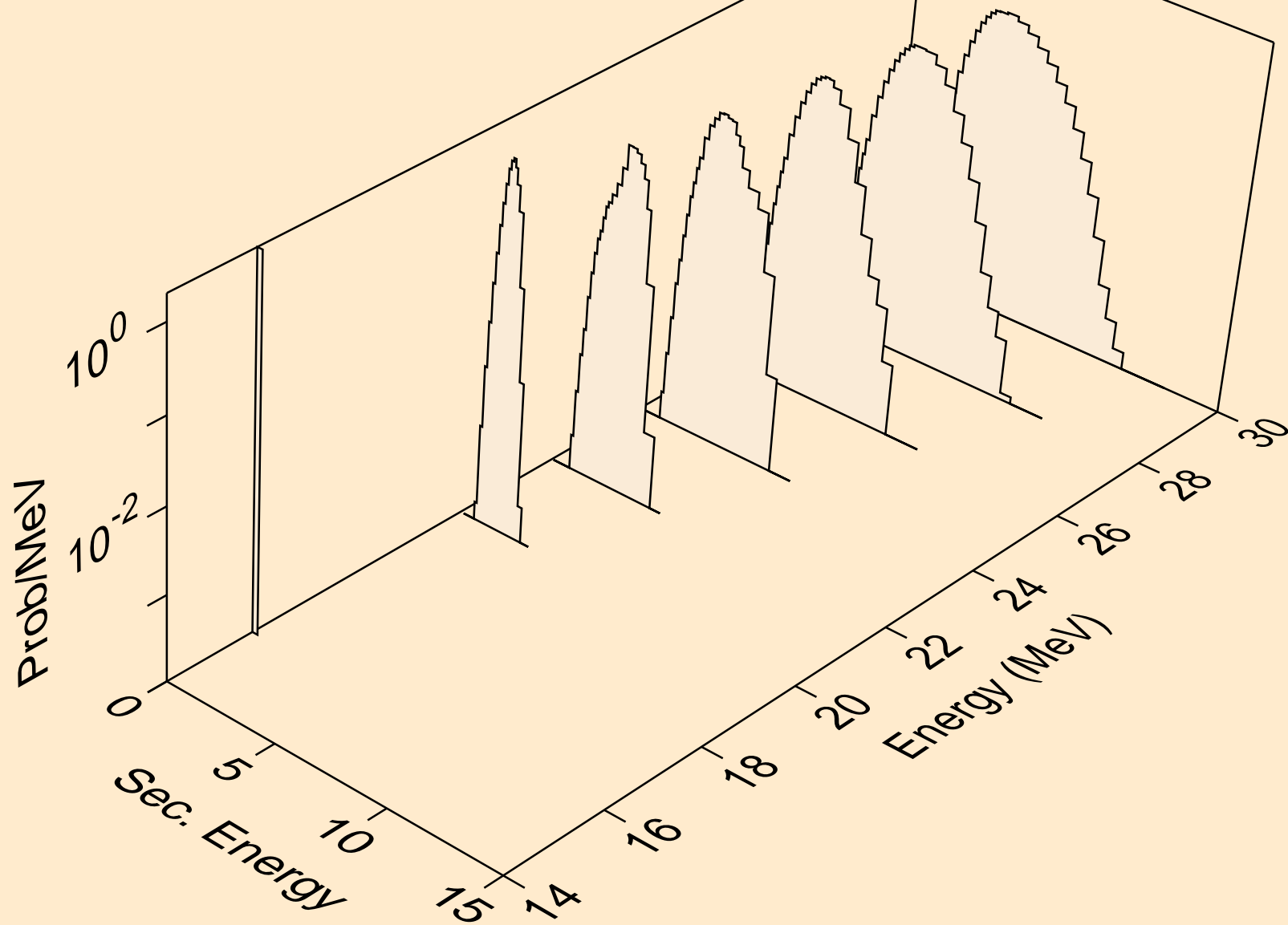
TI049 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
deuterons from (p,d)



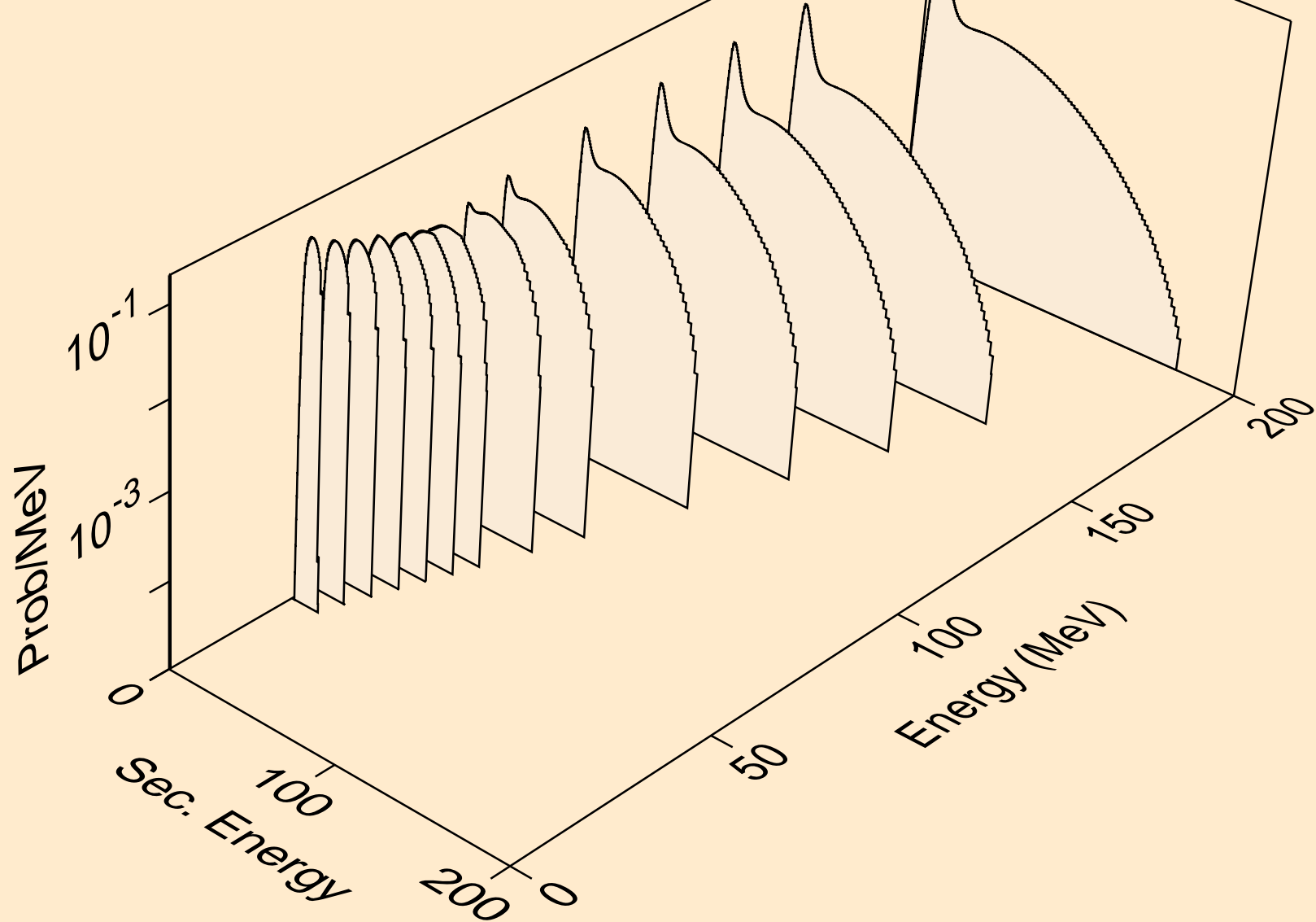
TI049 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
deuterons from (p,pd)



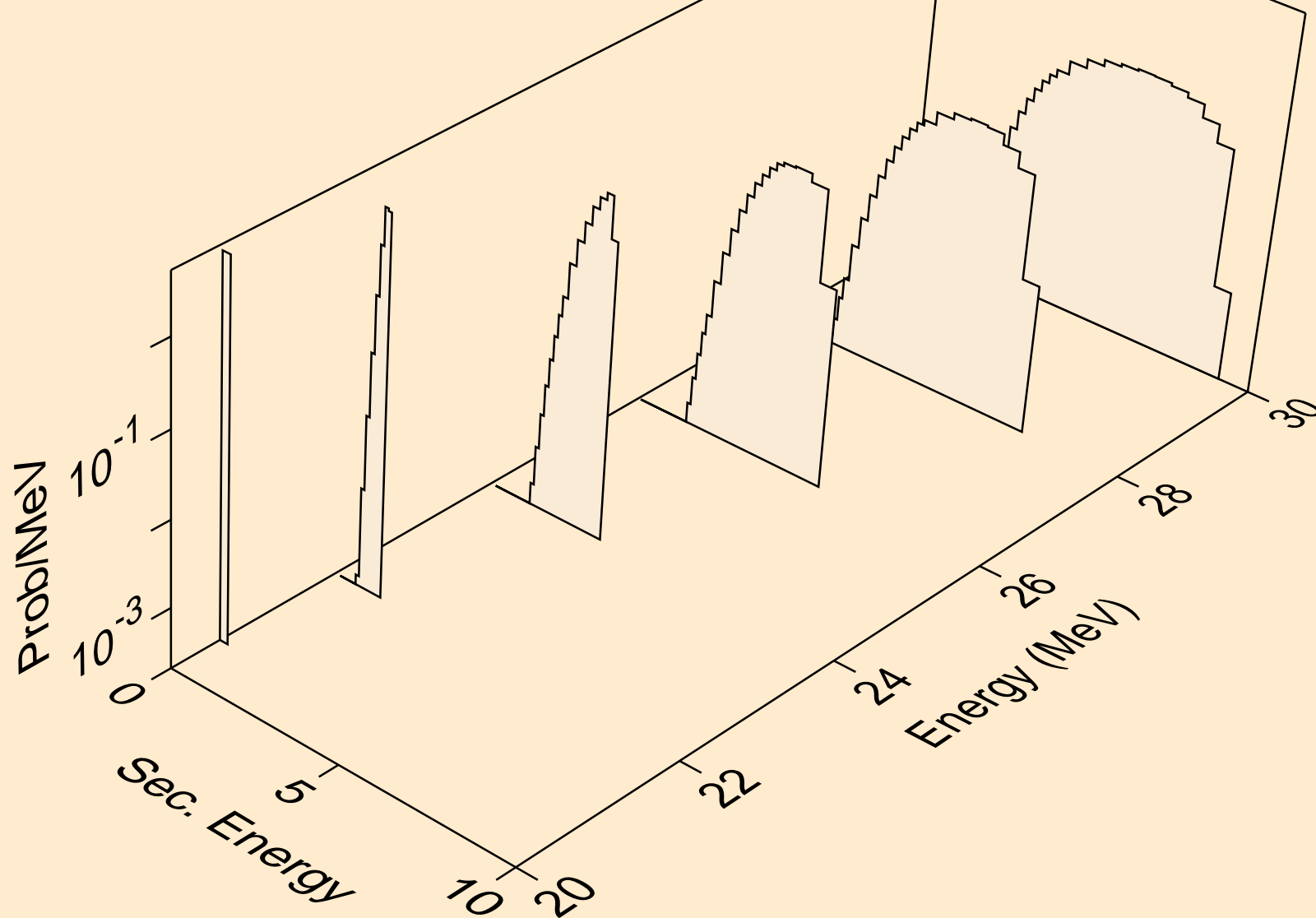
TI049 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
deuterons from (p,da)



TI049 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
tritons from (p,x)

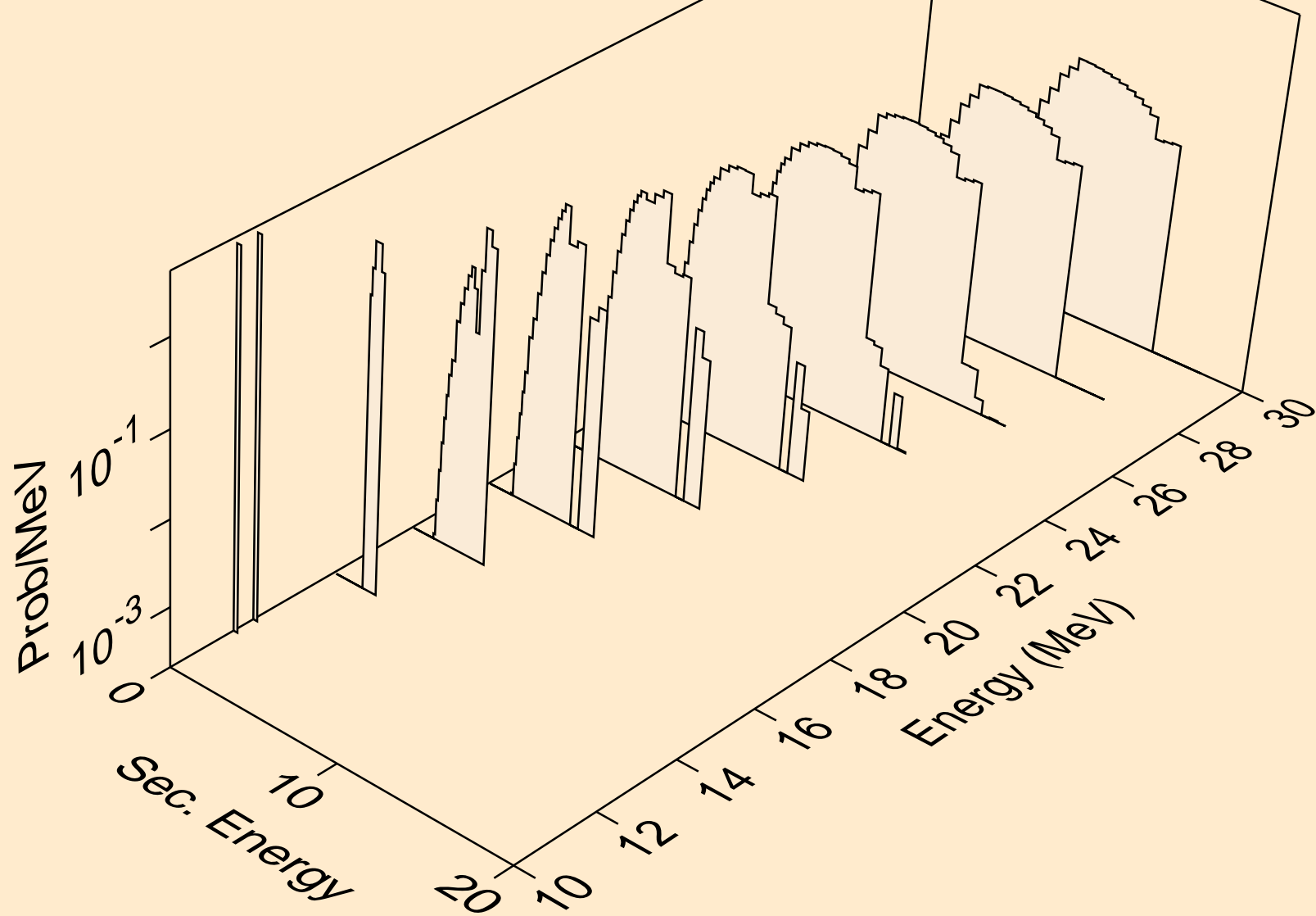


TI049 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
tritons from (p,n\*)t

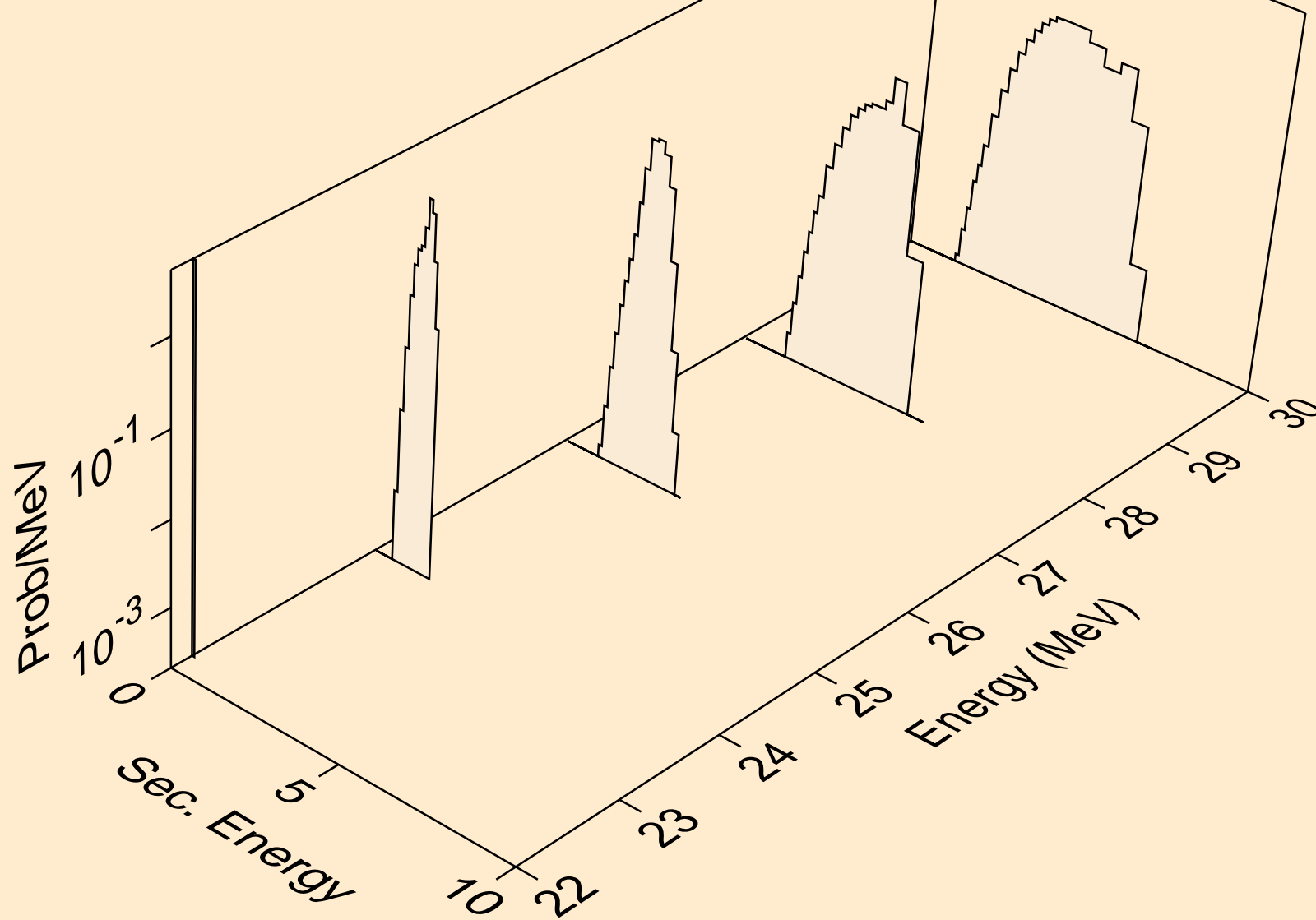




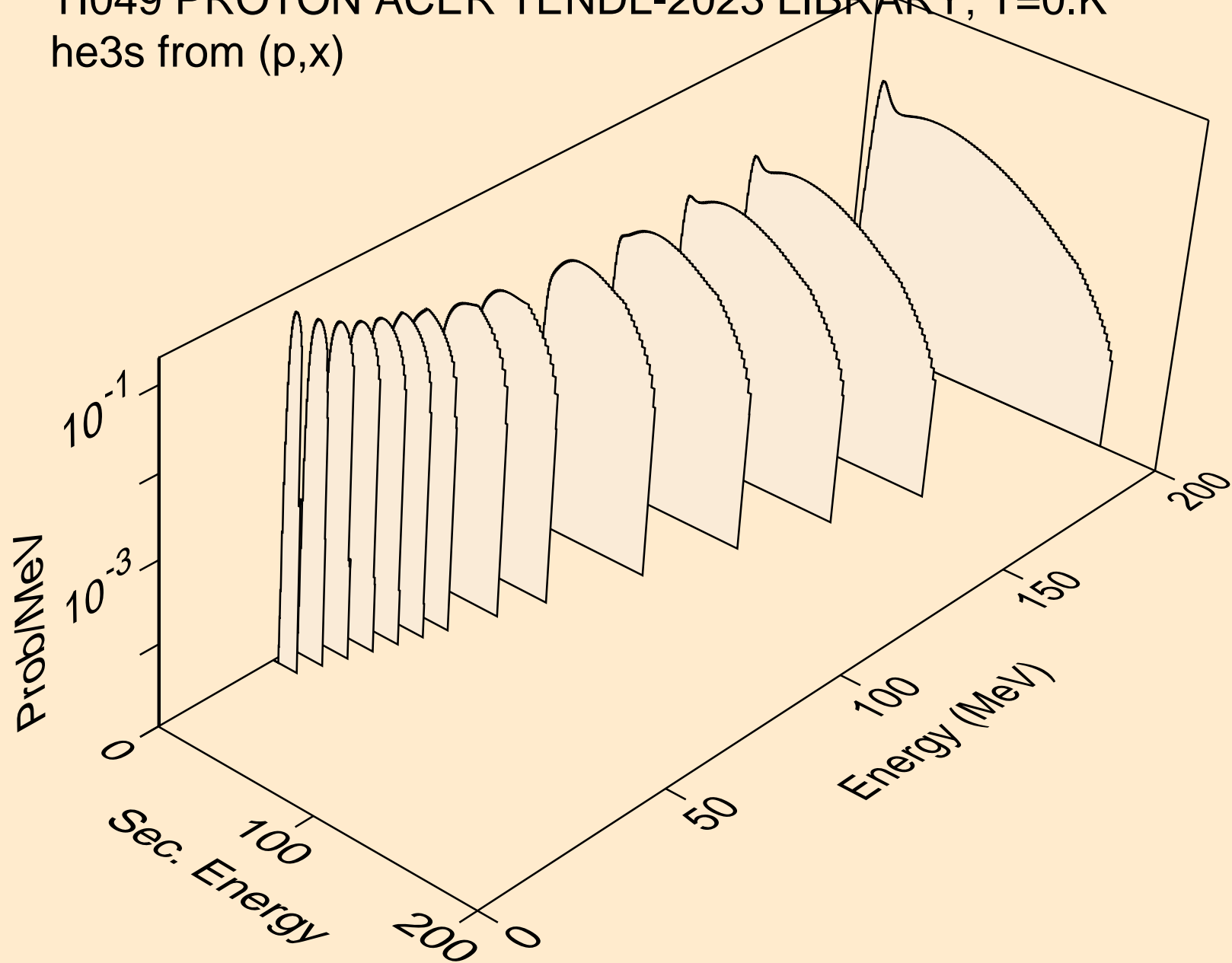
TI049 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
tritons from (p,t)



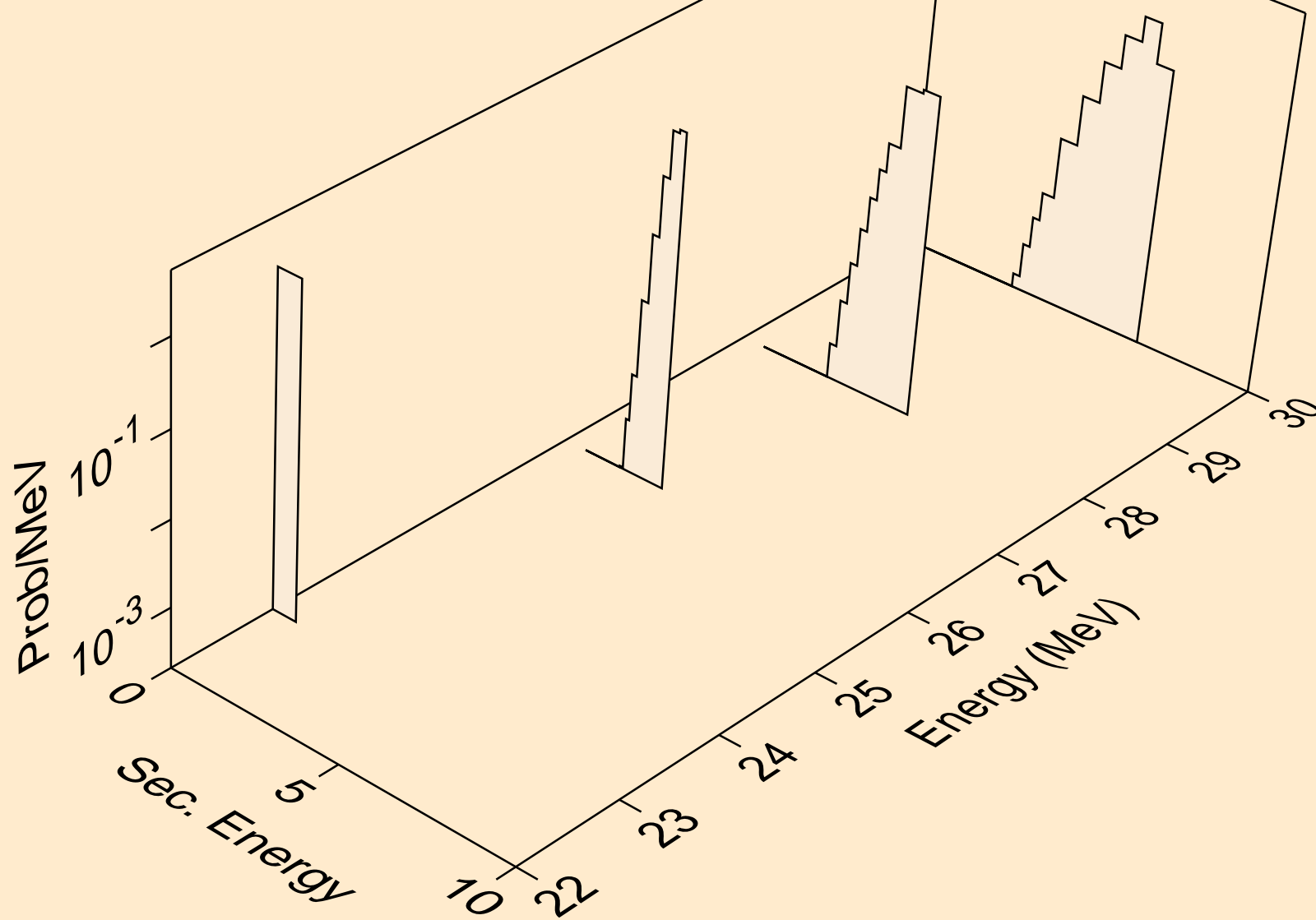
TI049 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
tritons from (p,pt)



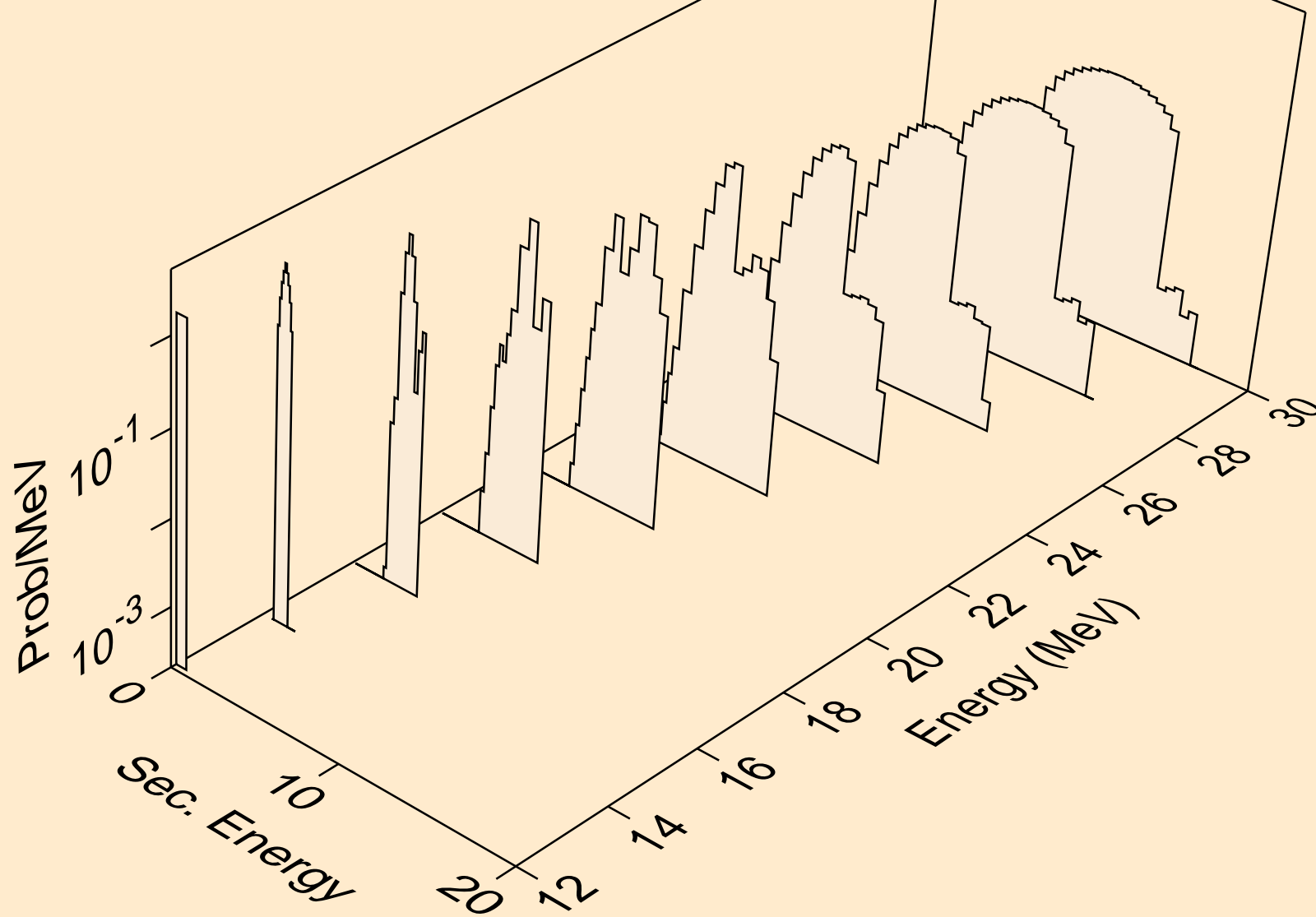
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he3s from (p,x)



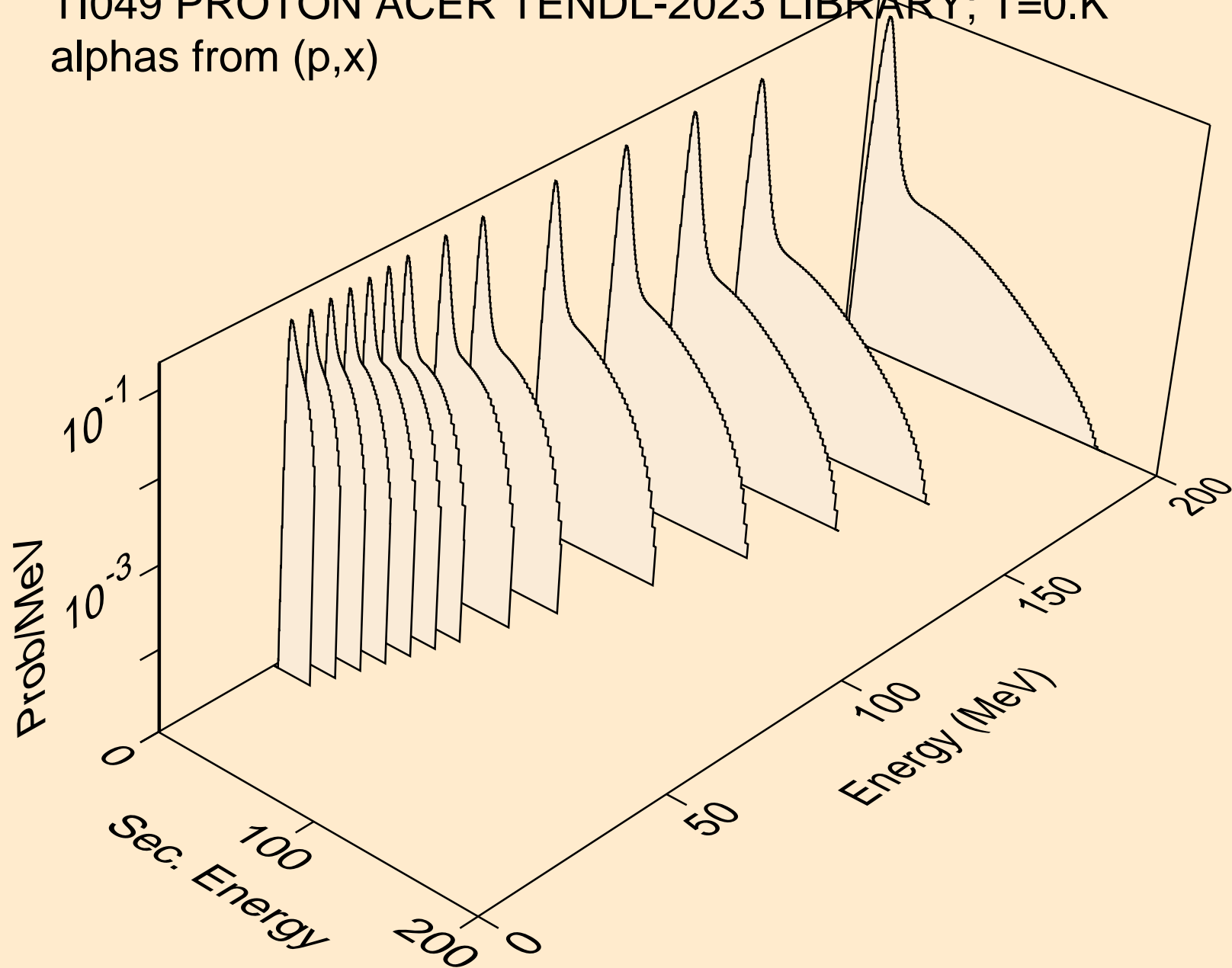
TI049 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
he3s from (p,n\*)he3



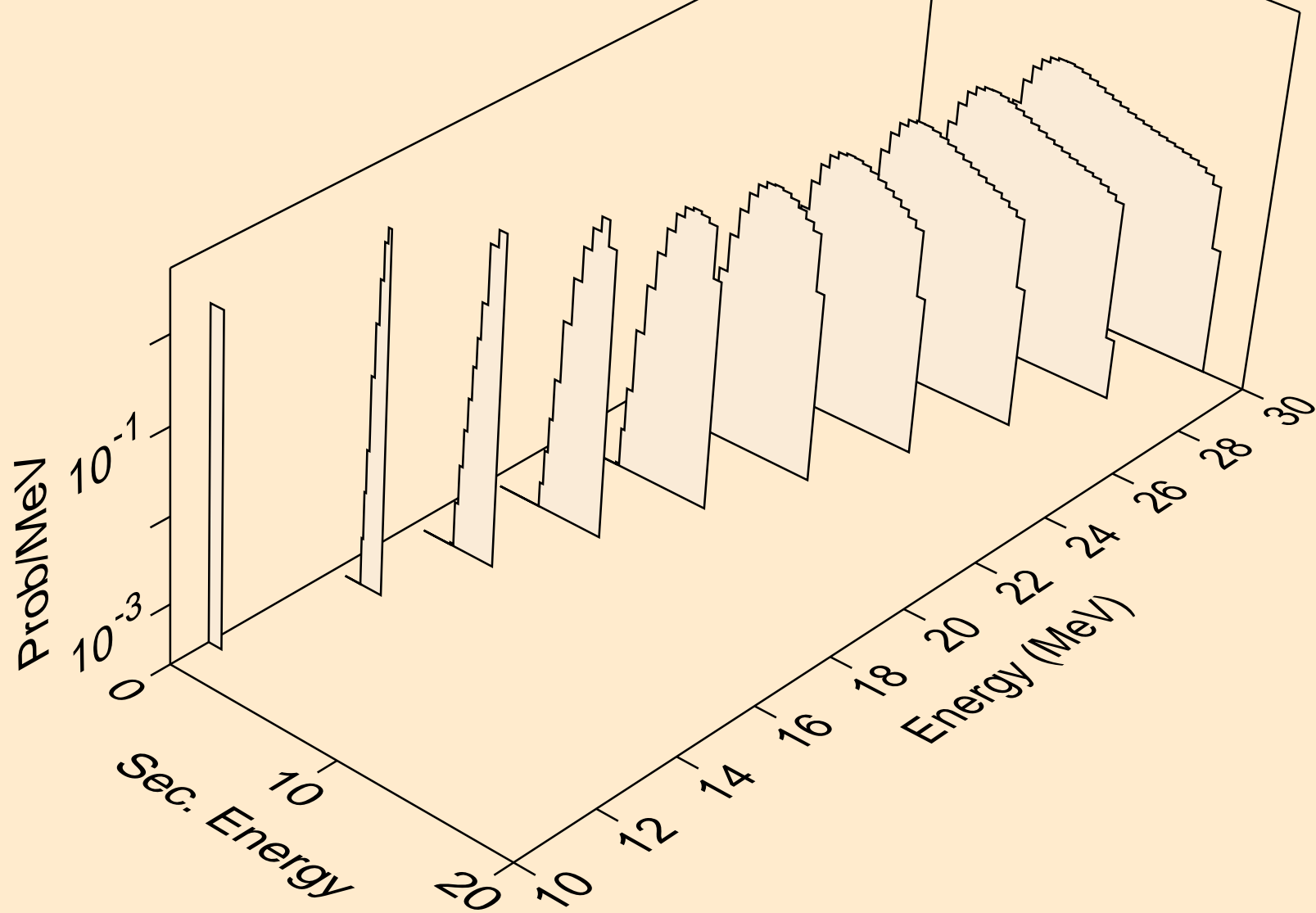
TI049 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
he3s from (p,he3)



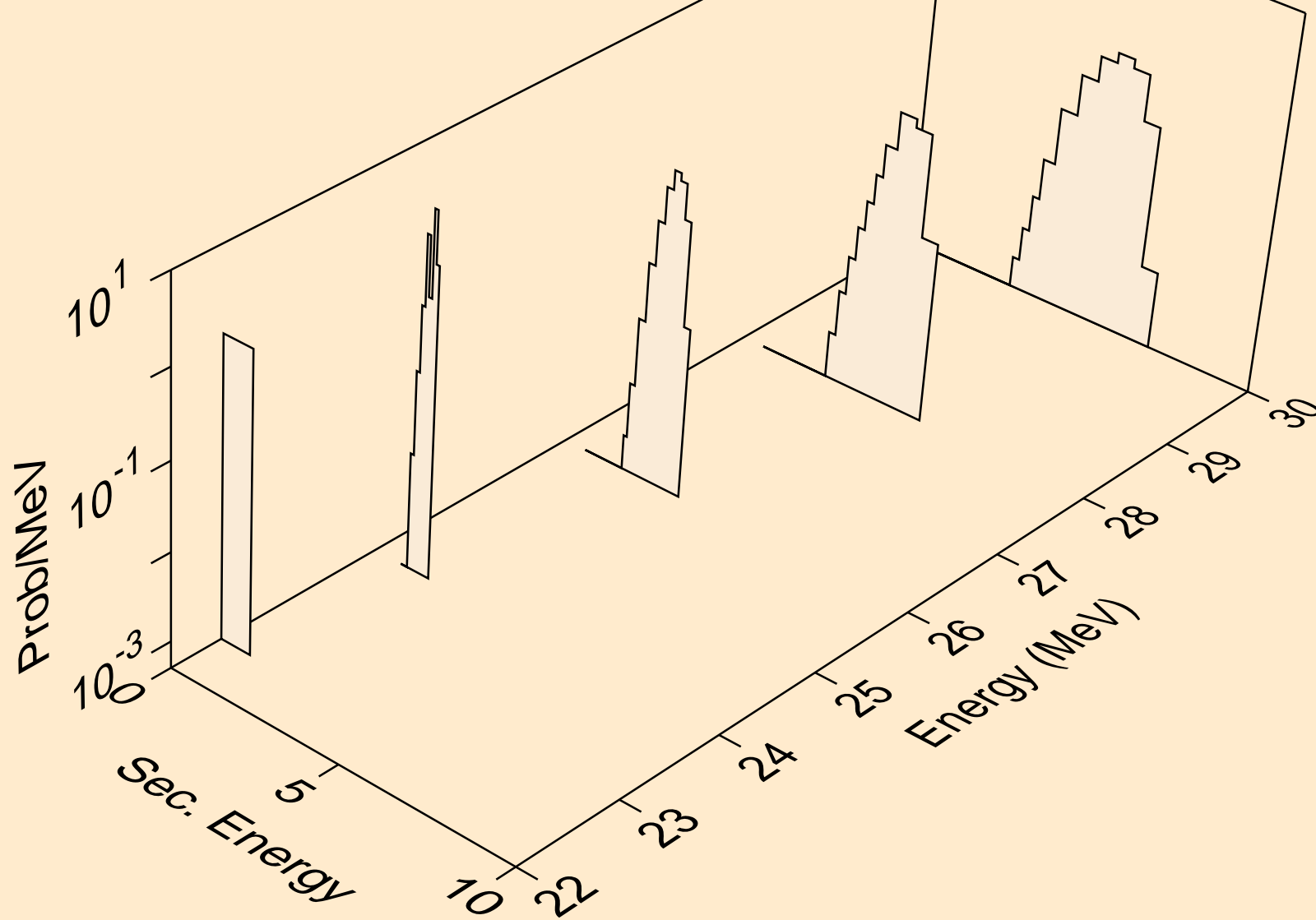
TI049 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (p,x)



TI049 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (p,n\*)a

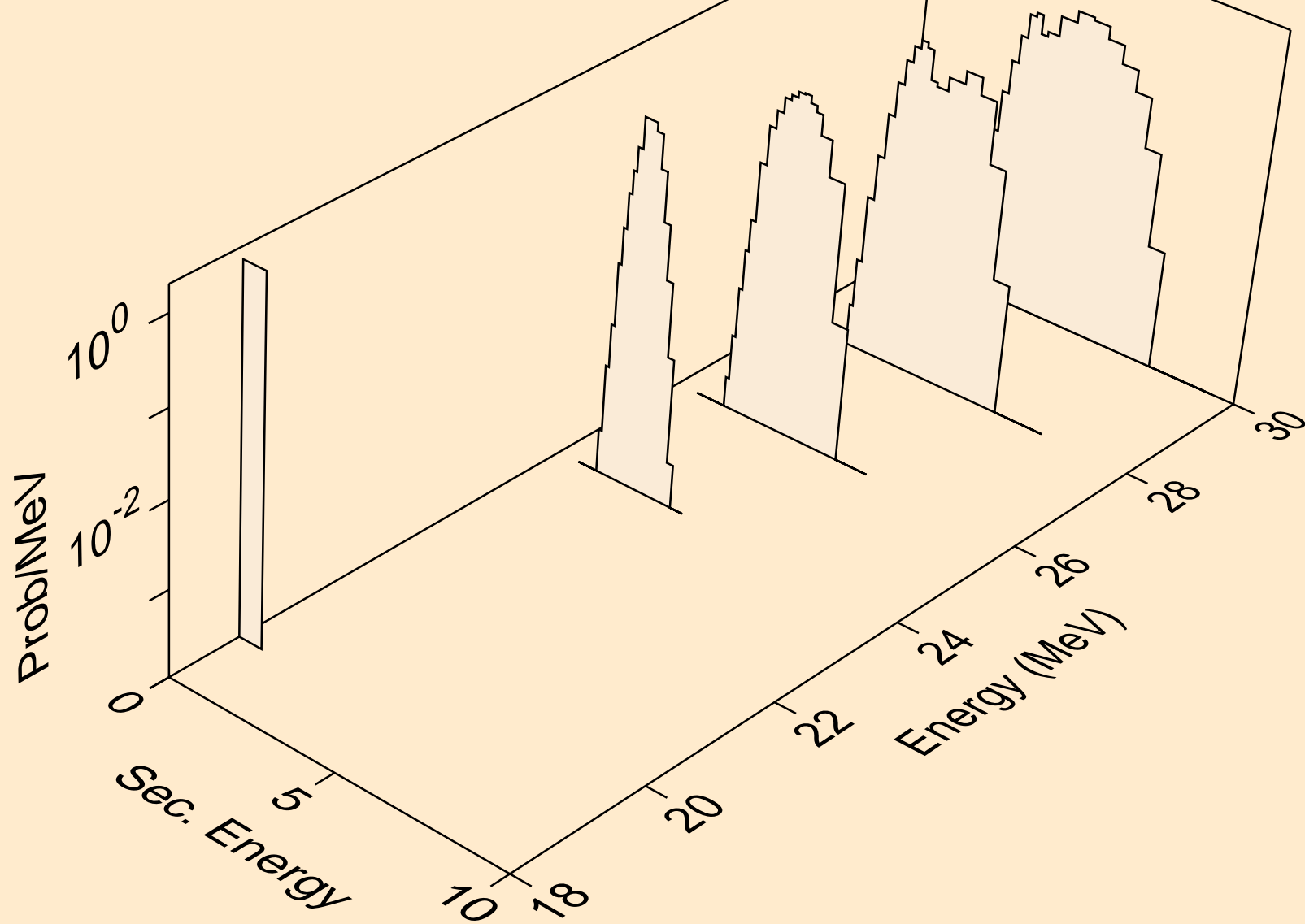


TI049 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (p,2n)a

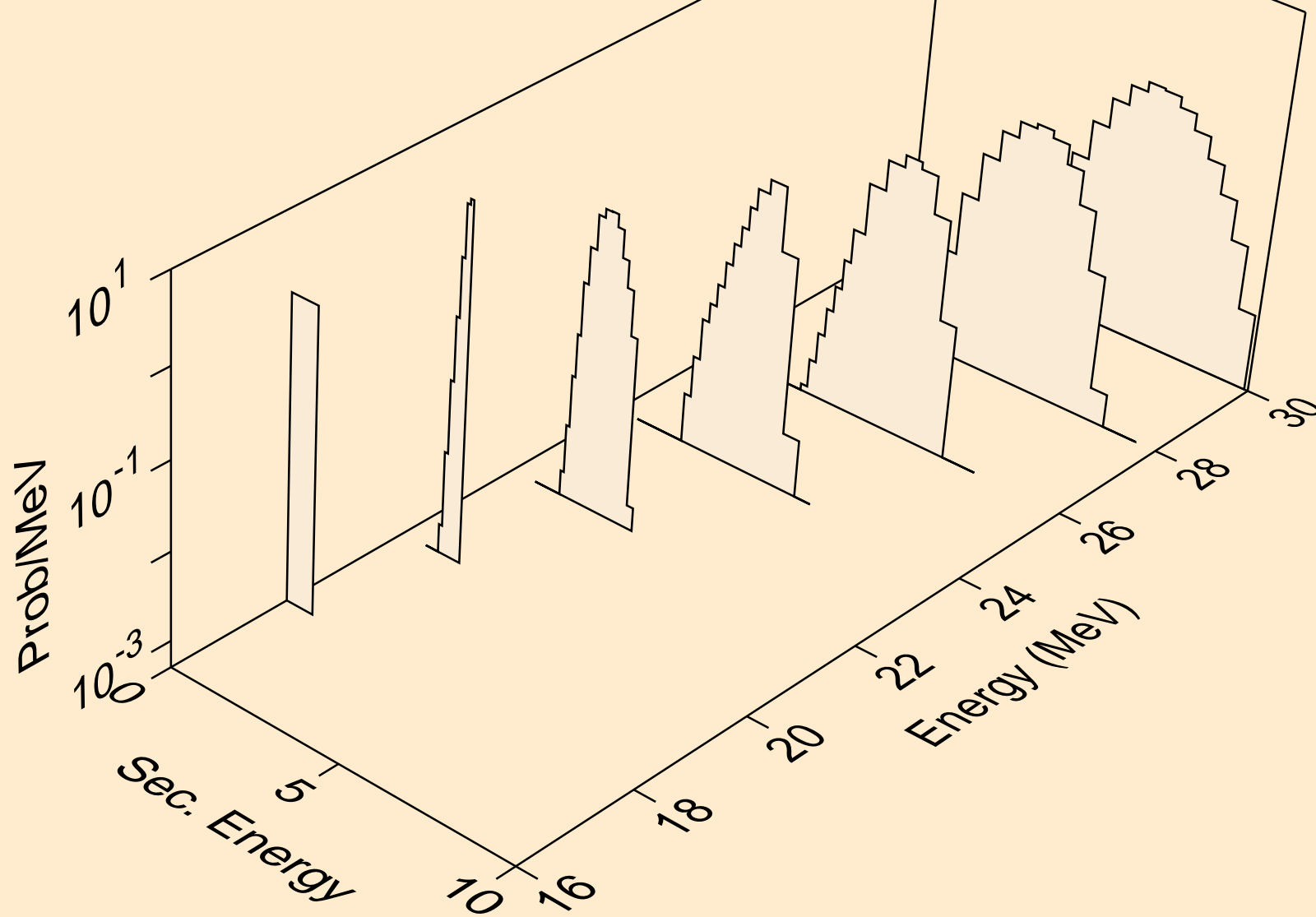




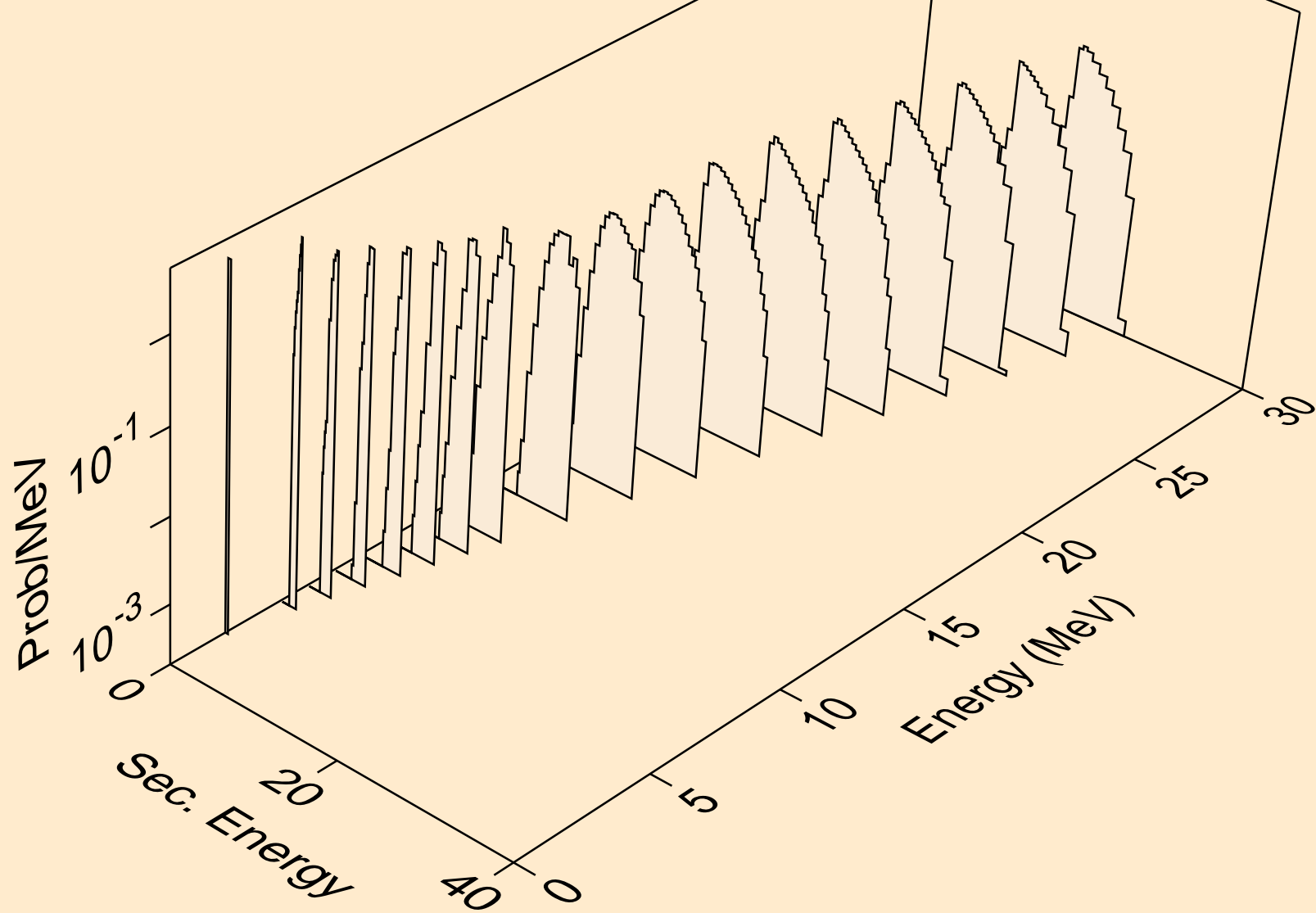
TI049 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (p,n\*)2a



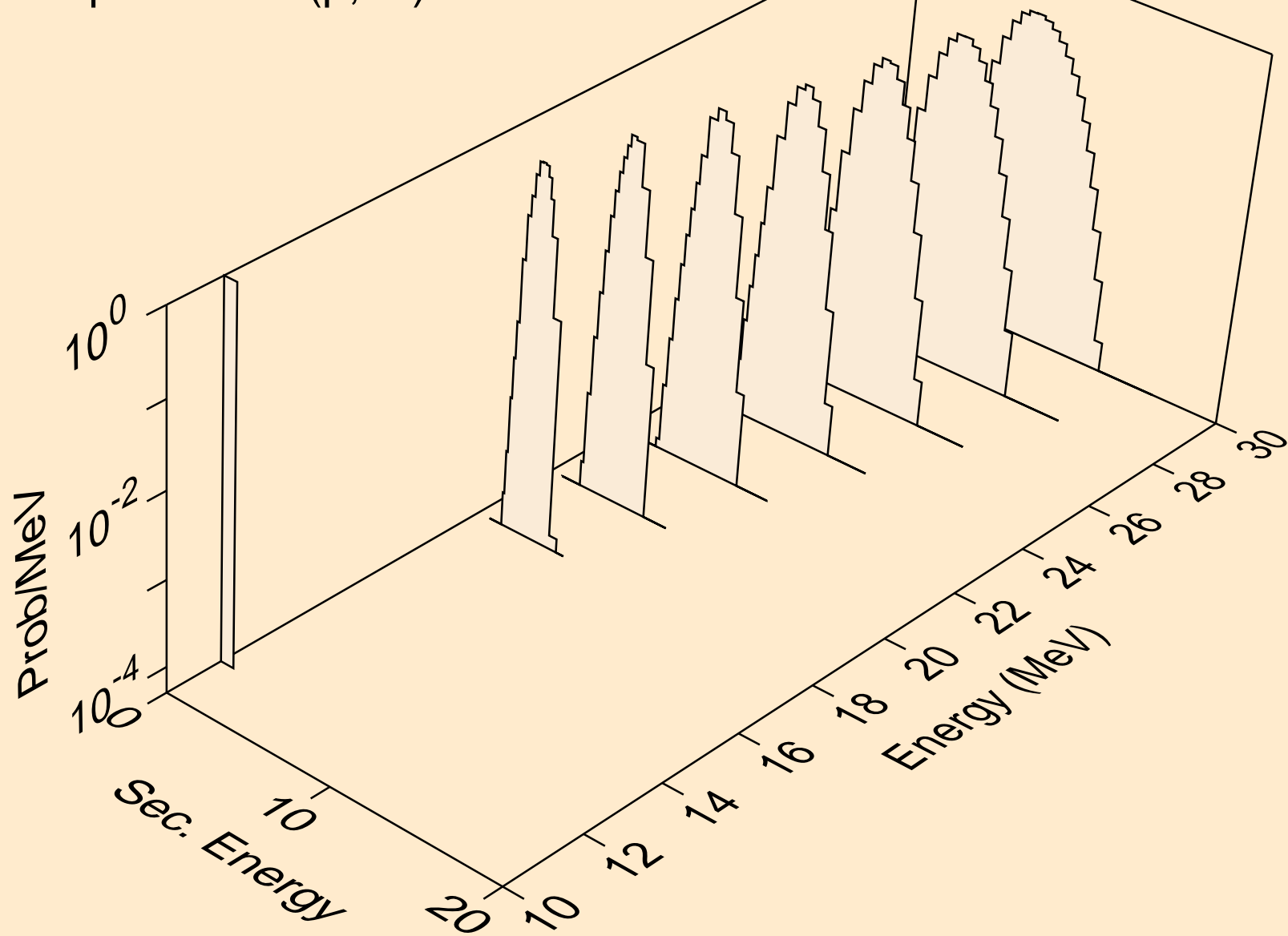
TI049 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (p,npa)



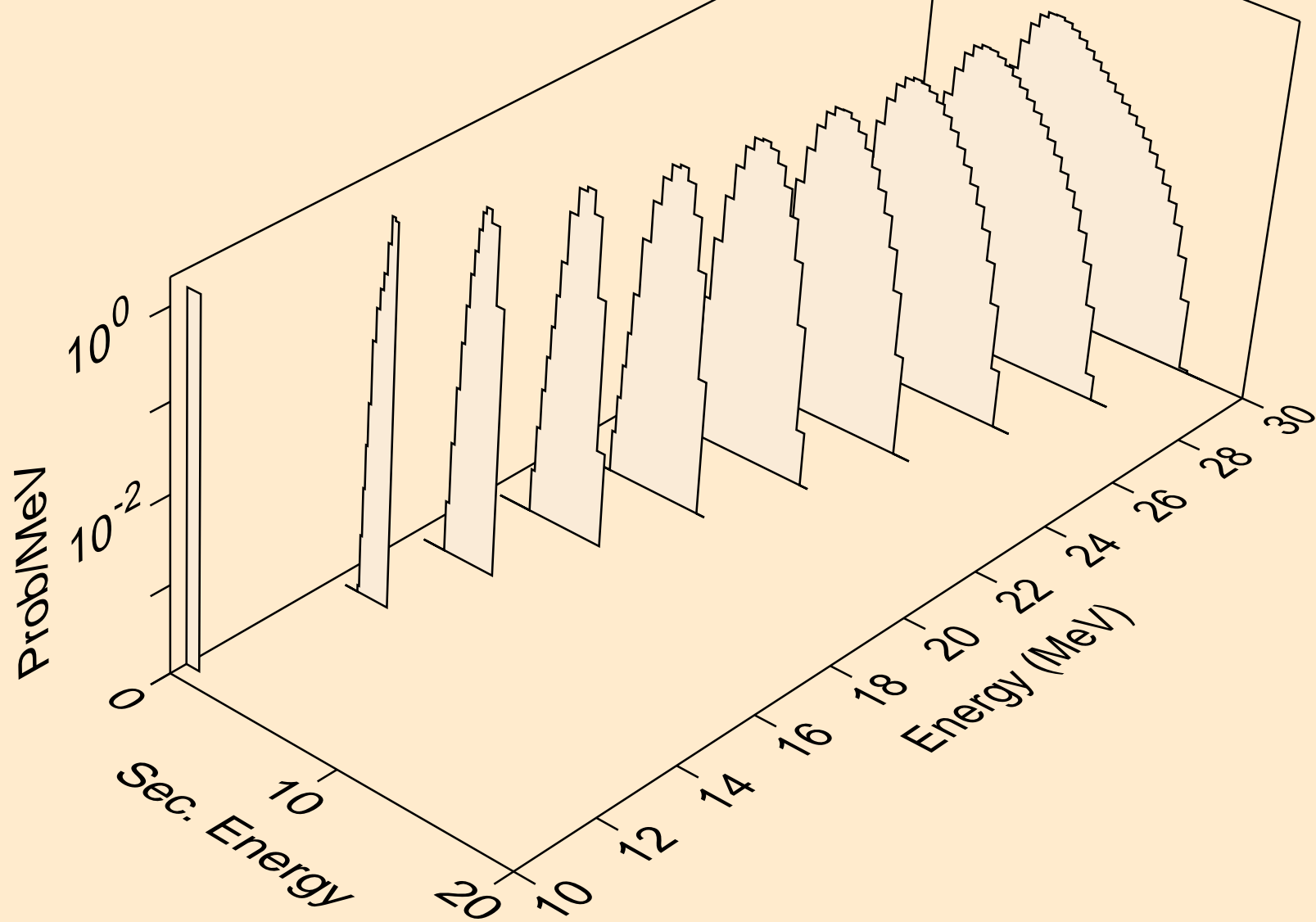
TI049 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (p,a)



TI049 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (p,2a)



TI049 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (p,pa)



TI049 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (p,da)

