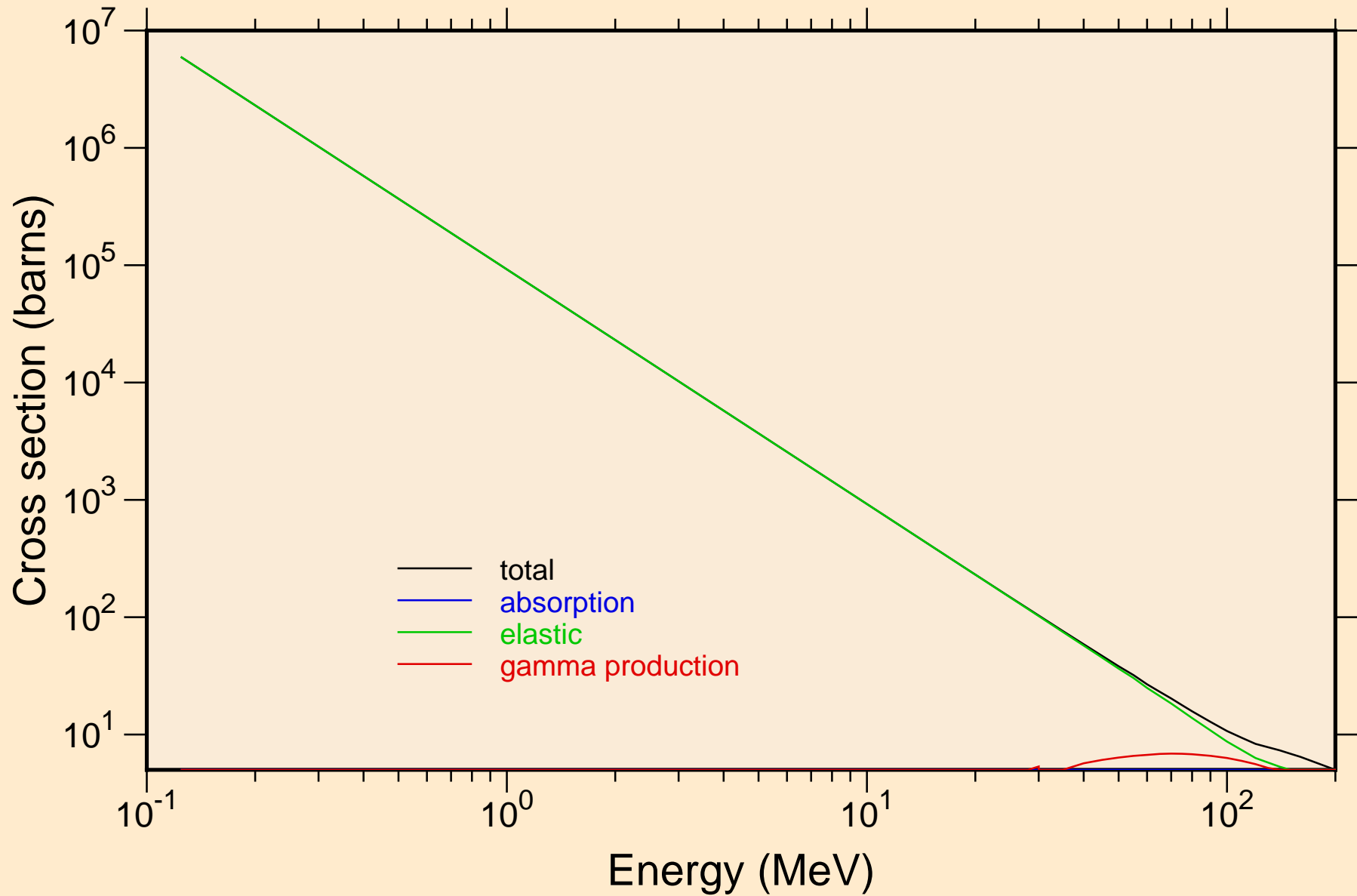


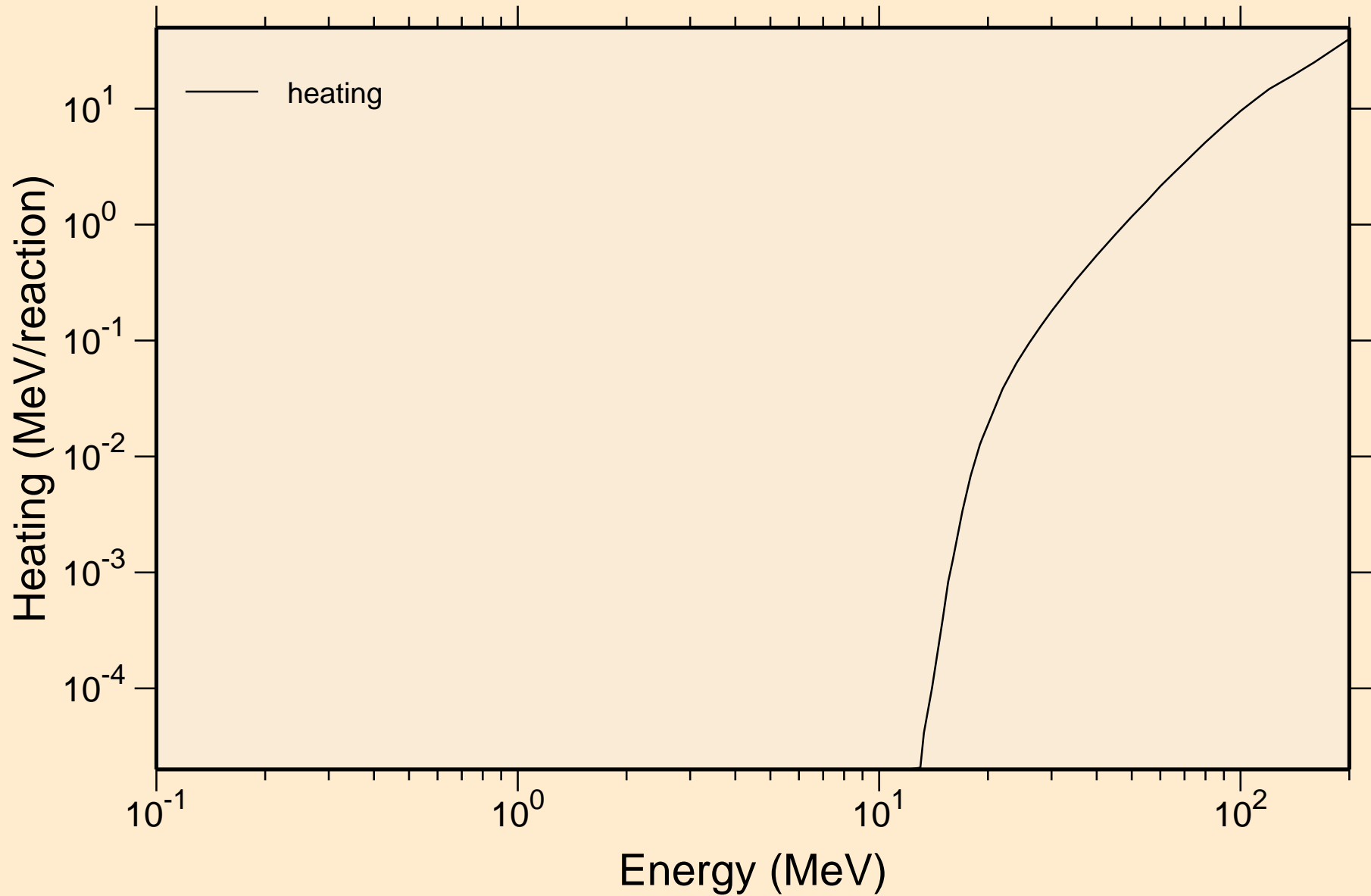
# ND139 HELION ACER TENDL-2023 LIBRARY; T=0.K

## Principal cross sections



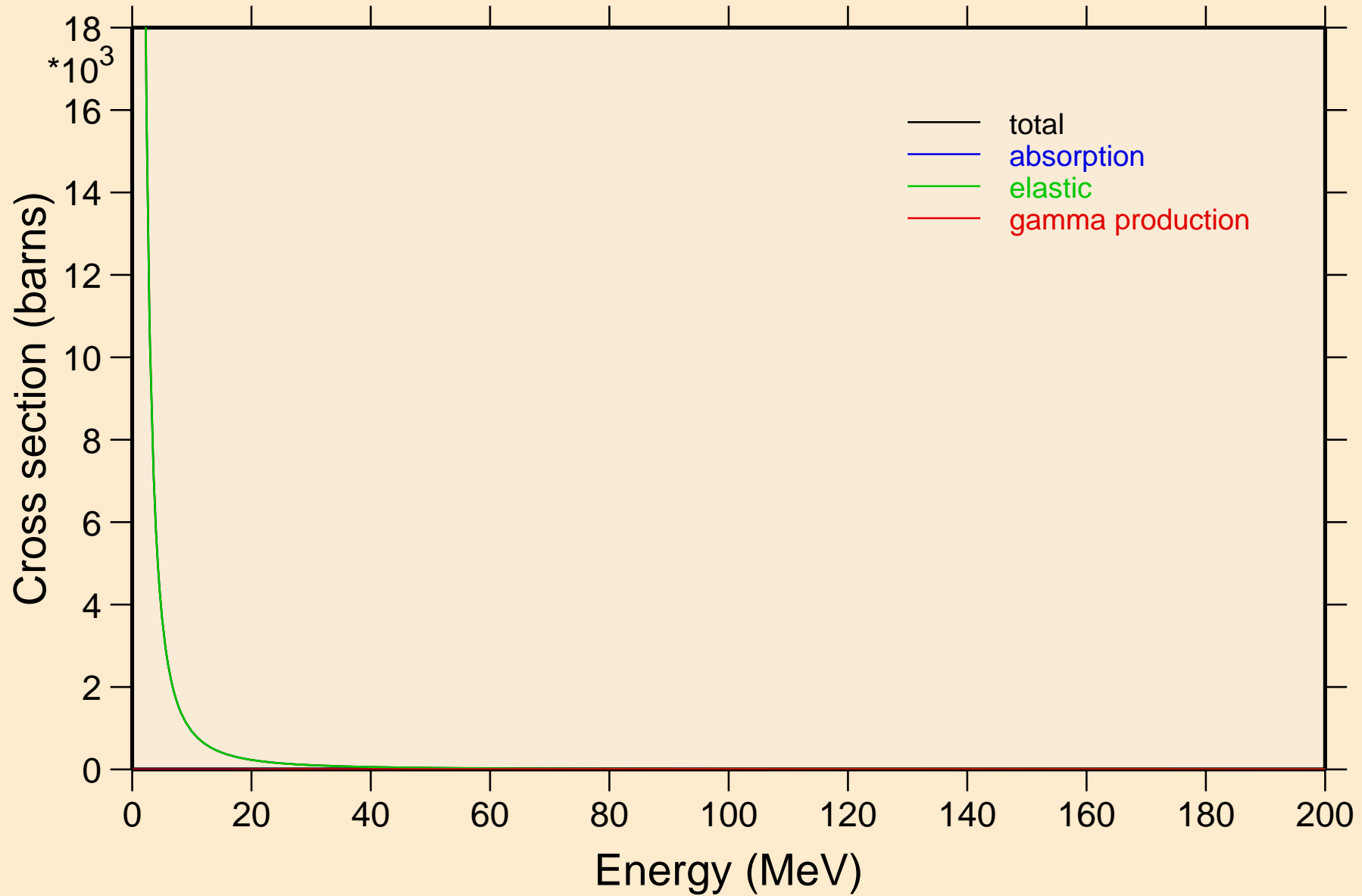
# ND139 HELION ACER TENDL-2023 LIBRARY; T=0.K

## Heating



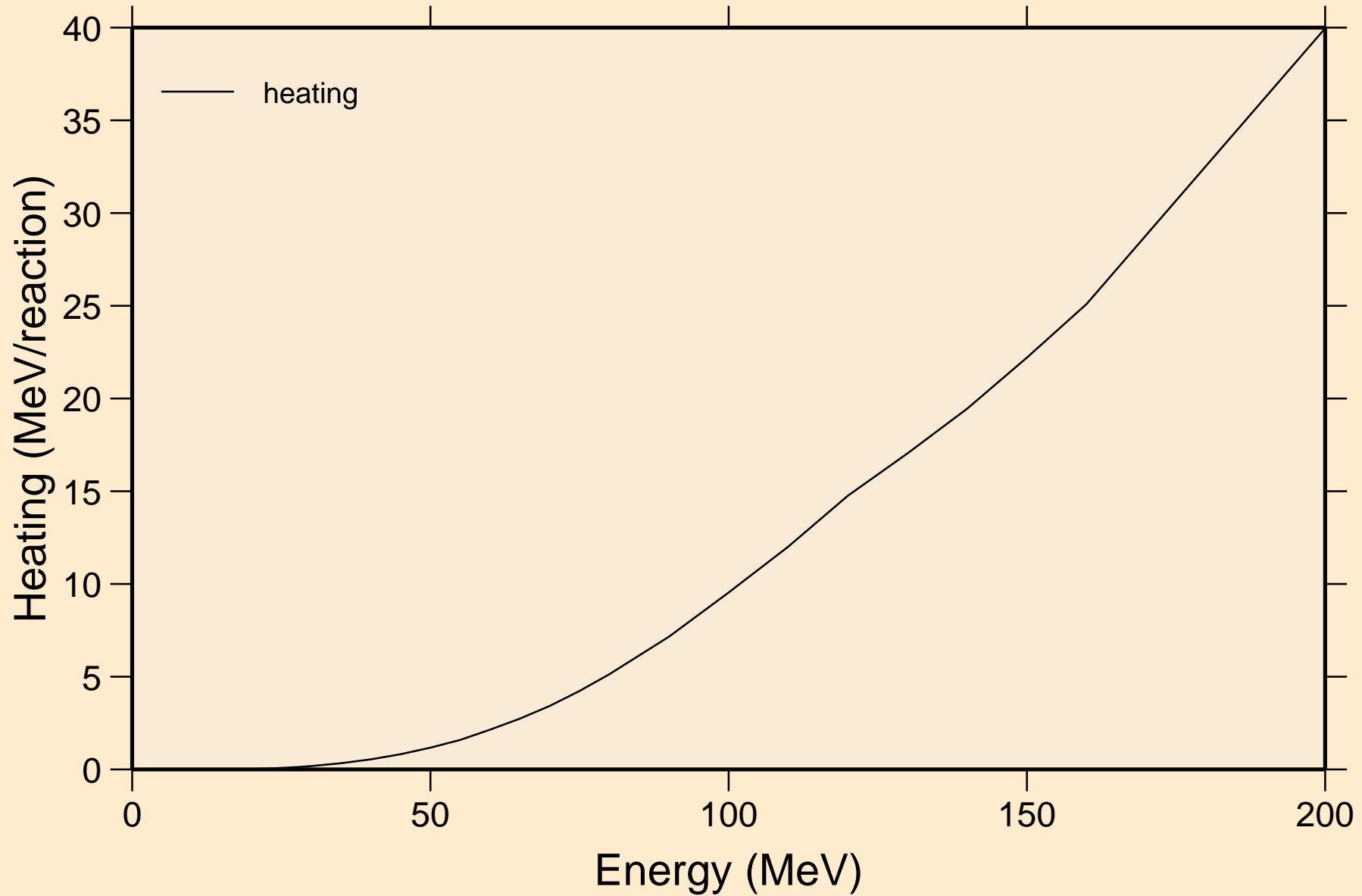
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## Principal cross sections



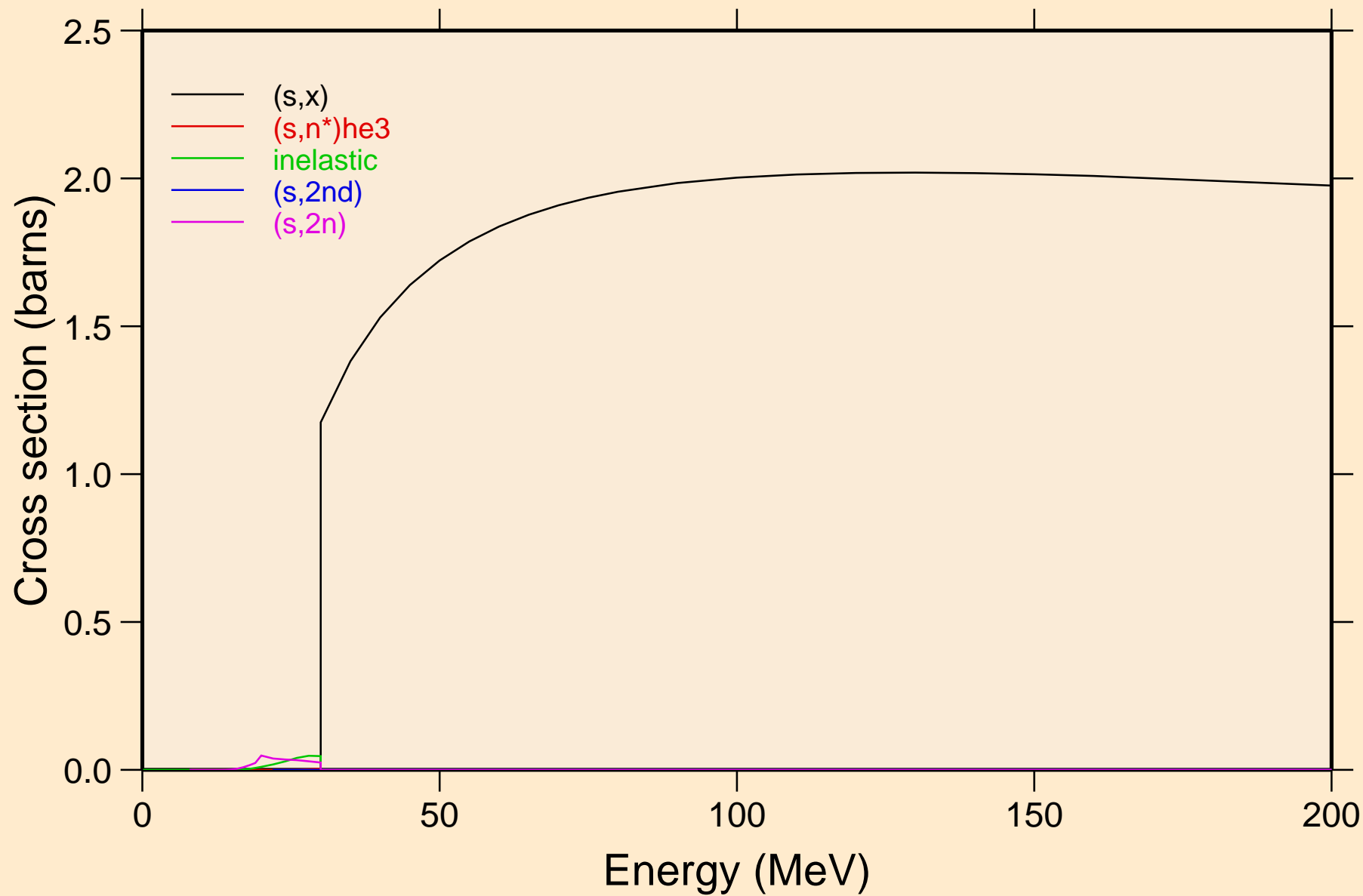
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## Heating

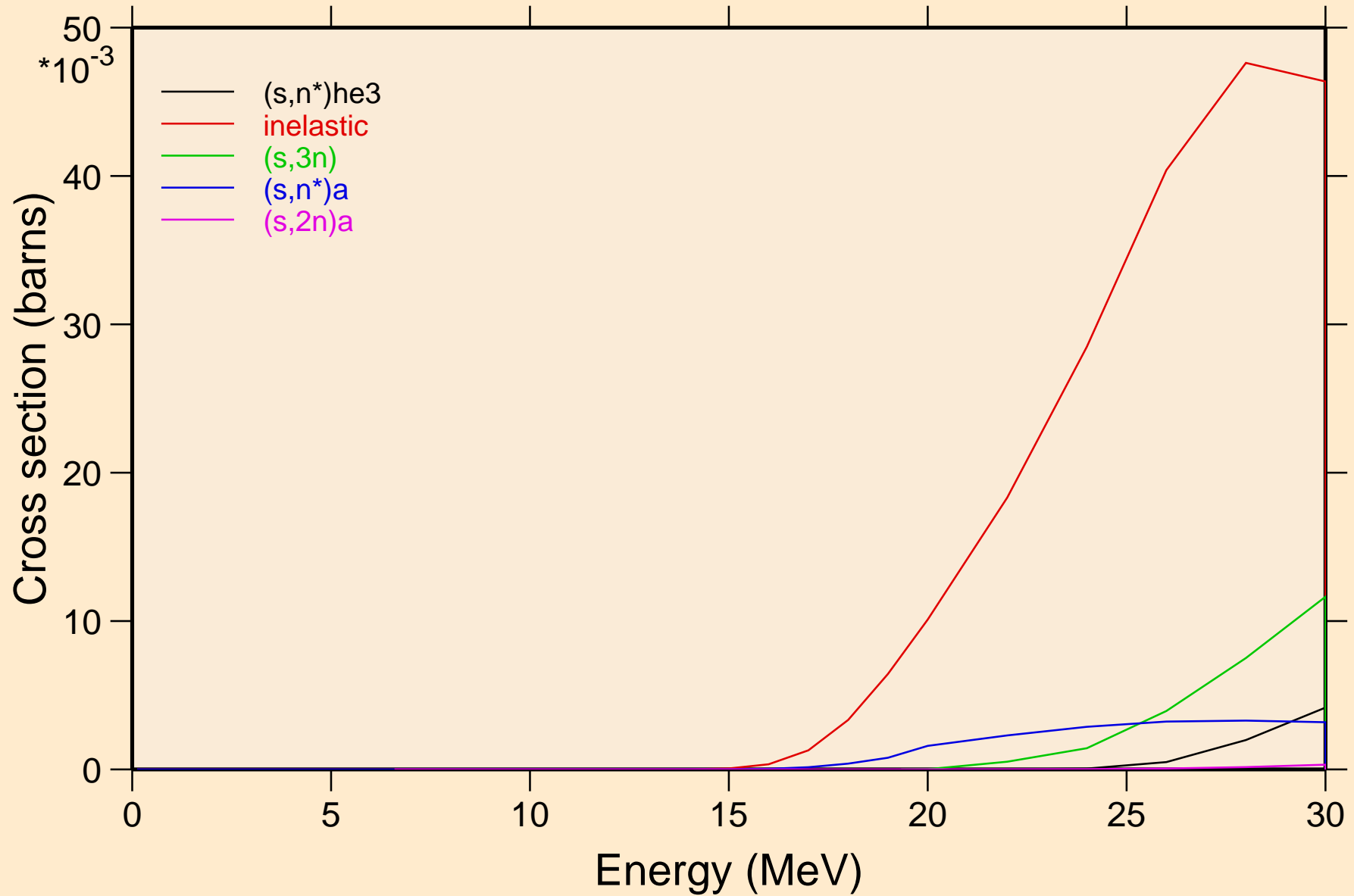


# ND139 HELION ACER TENDL-2023 LIBRARY; T=0.K

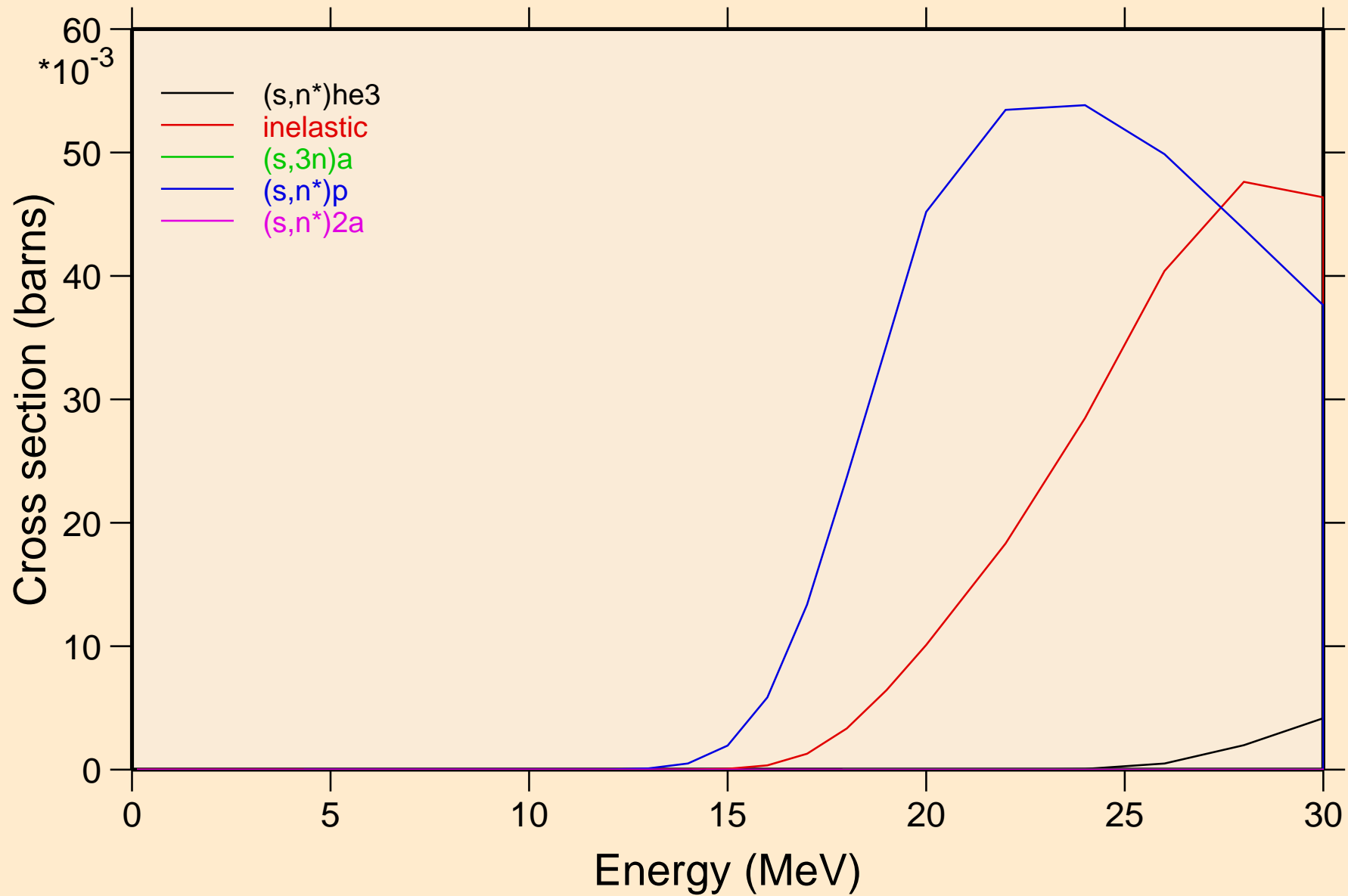
## Threshold reactions



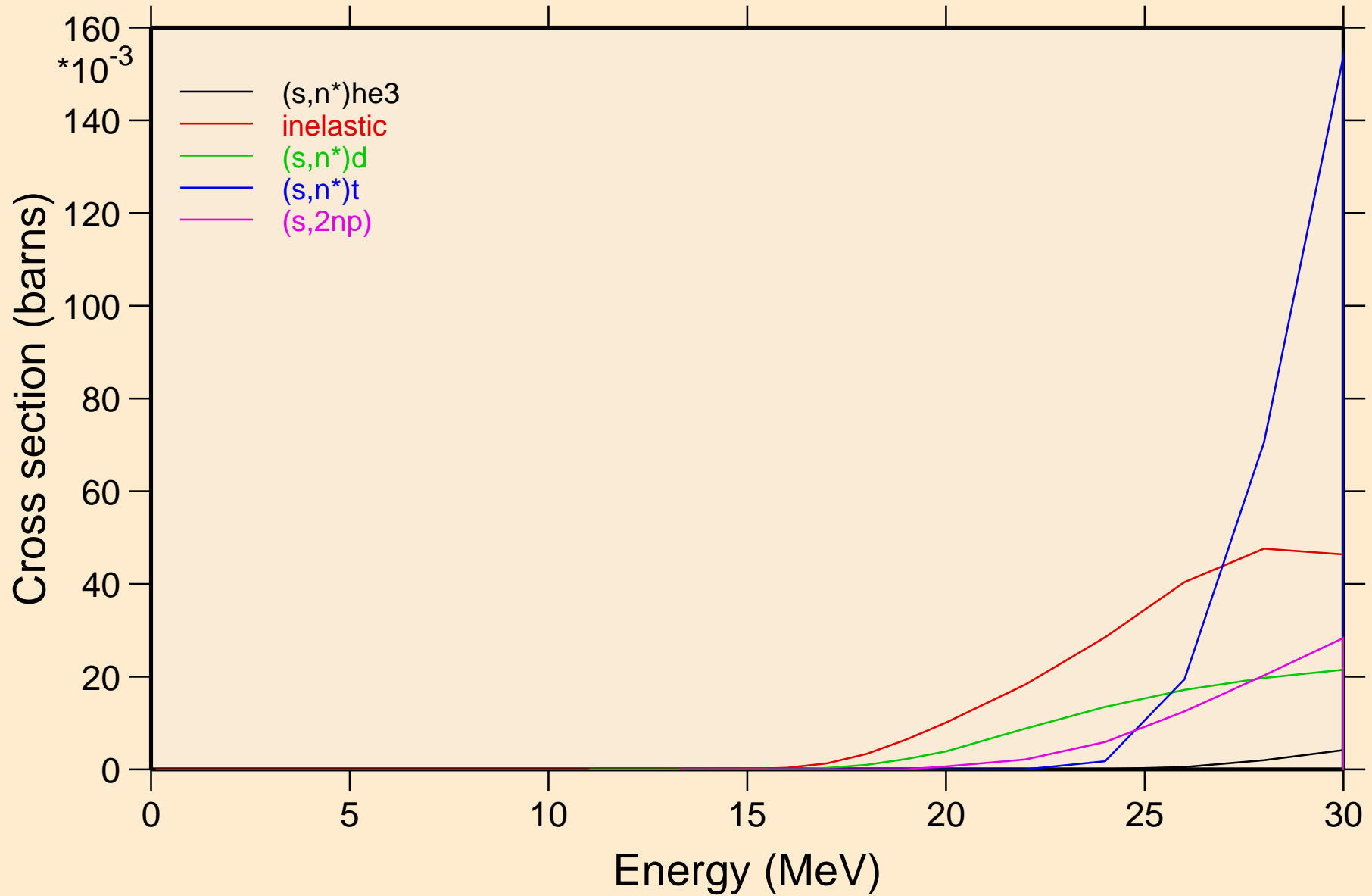
ND139 HELION ACER TENDL-2023 LIBRARY; T=0.K  
Threshold reactions



ND139 HELION ACER TENDL-2023 LIBRARY; T=0.K  
Threshold reactions

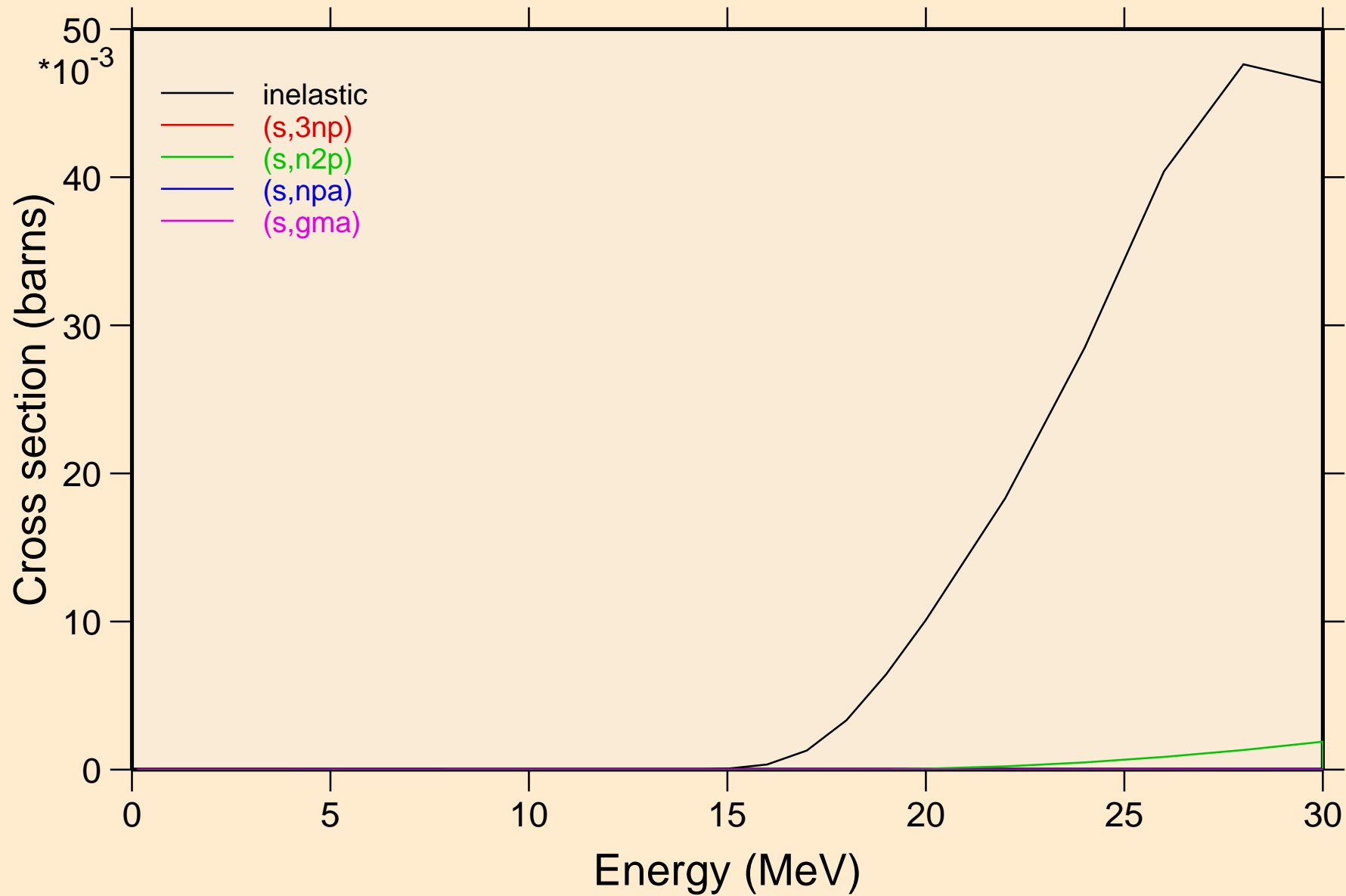


ND139 HELION ACER TENDL-2023 LIBRARY; T=0.K  
Threshold reactions



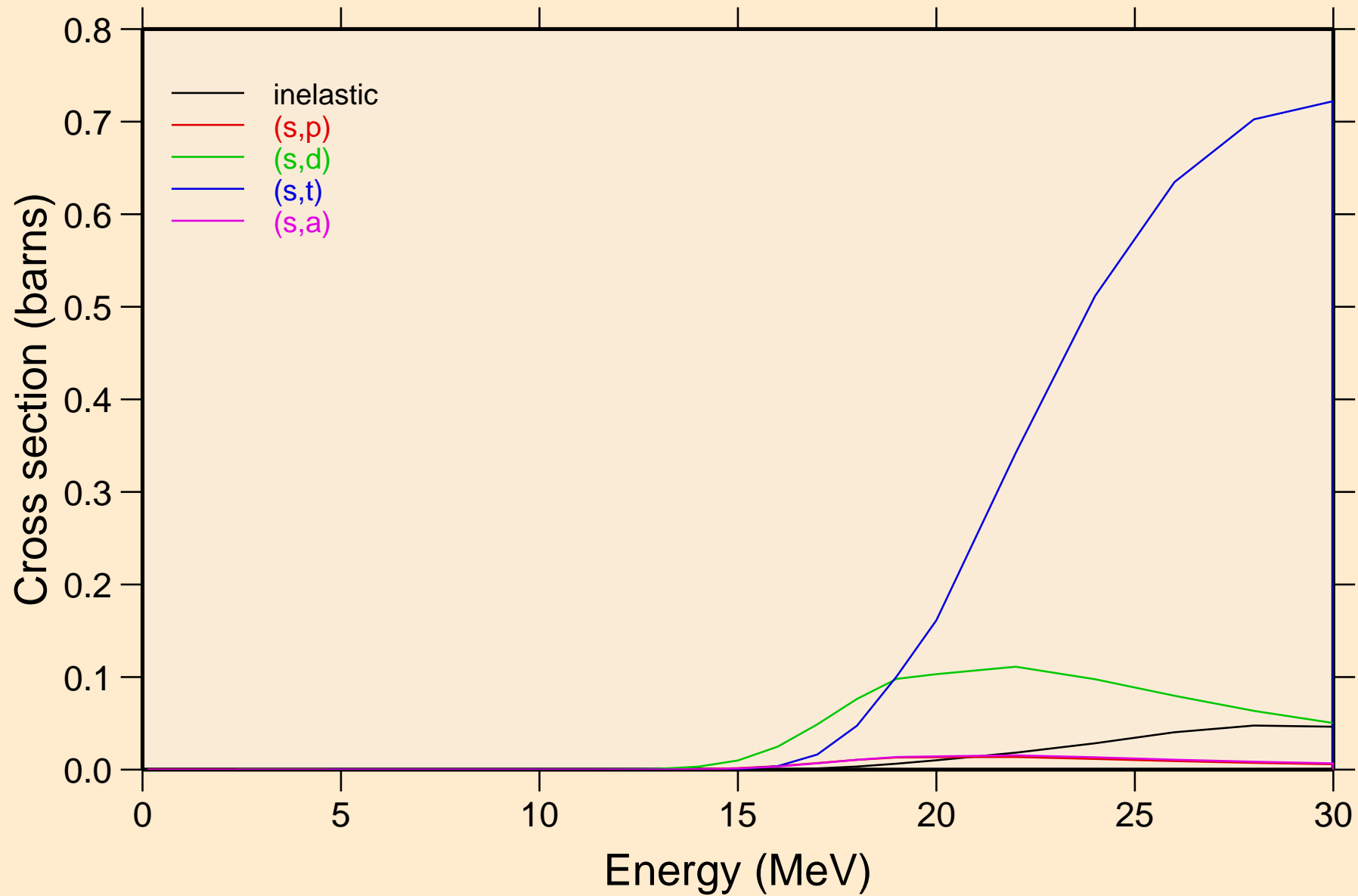


ND139 HELION ACER TENDL-2023 LIBRARY; T=0.K  
Threshold reactions



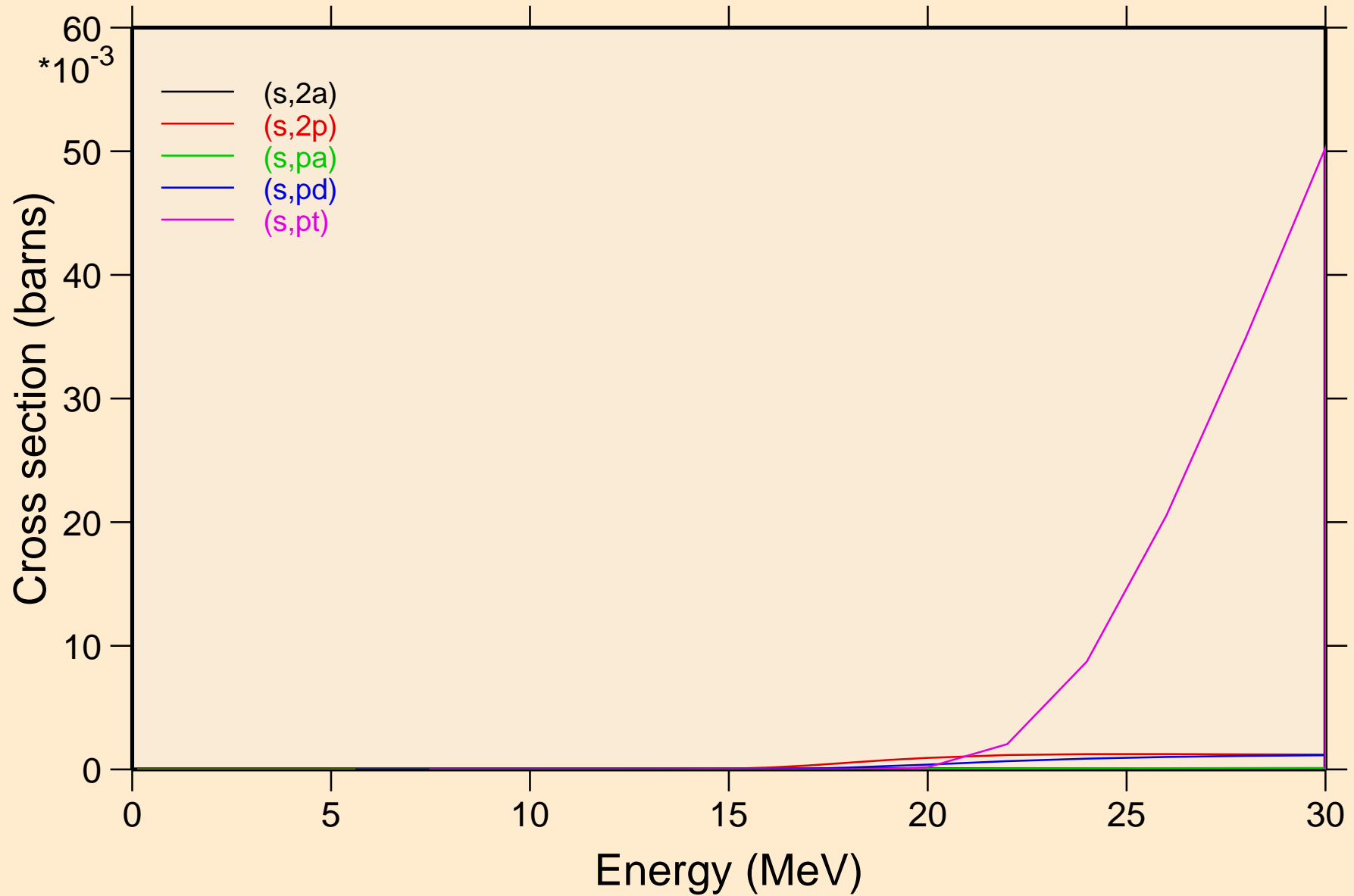
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## Threshold reactions

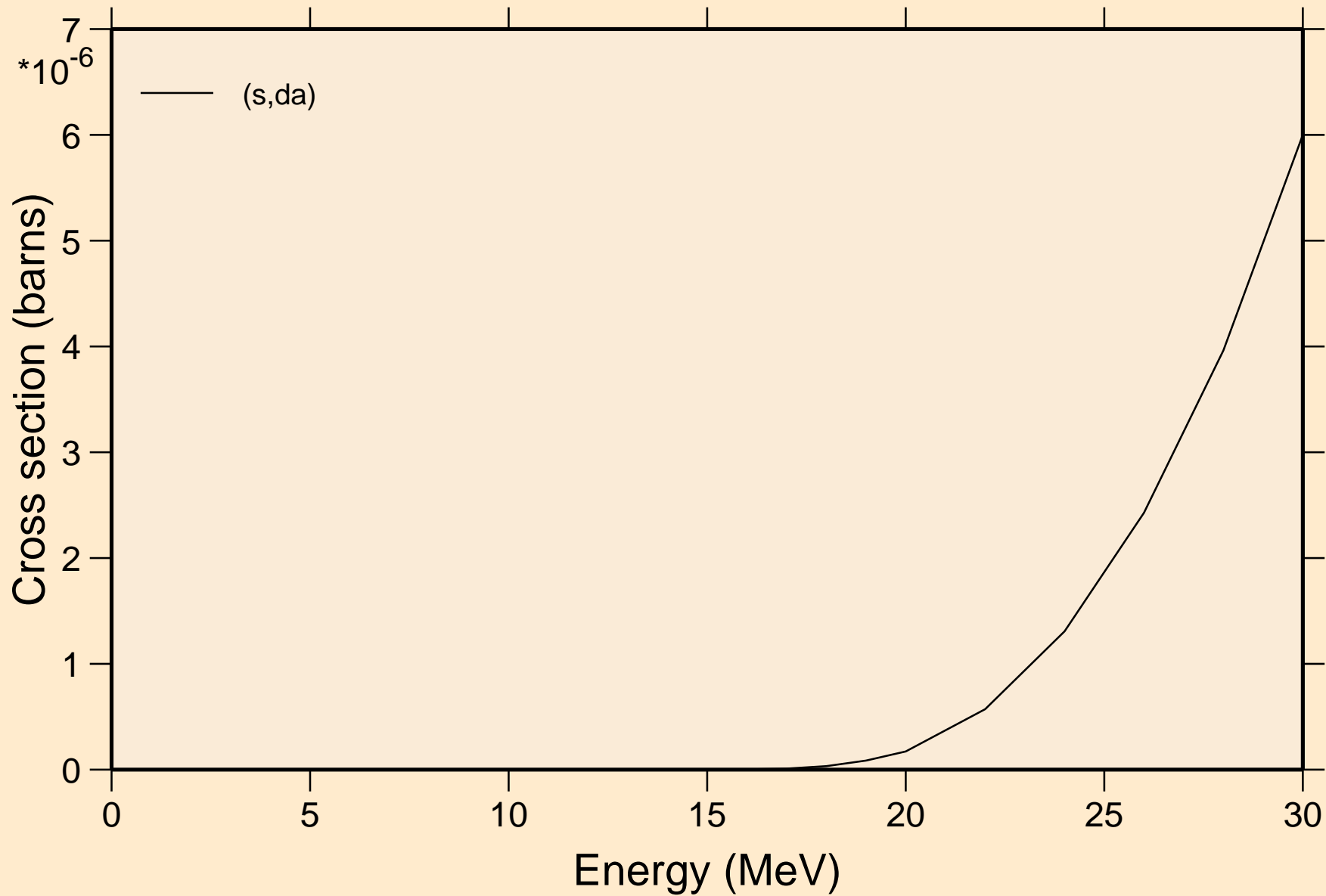


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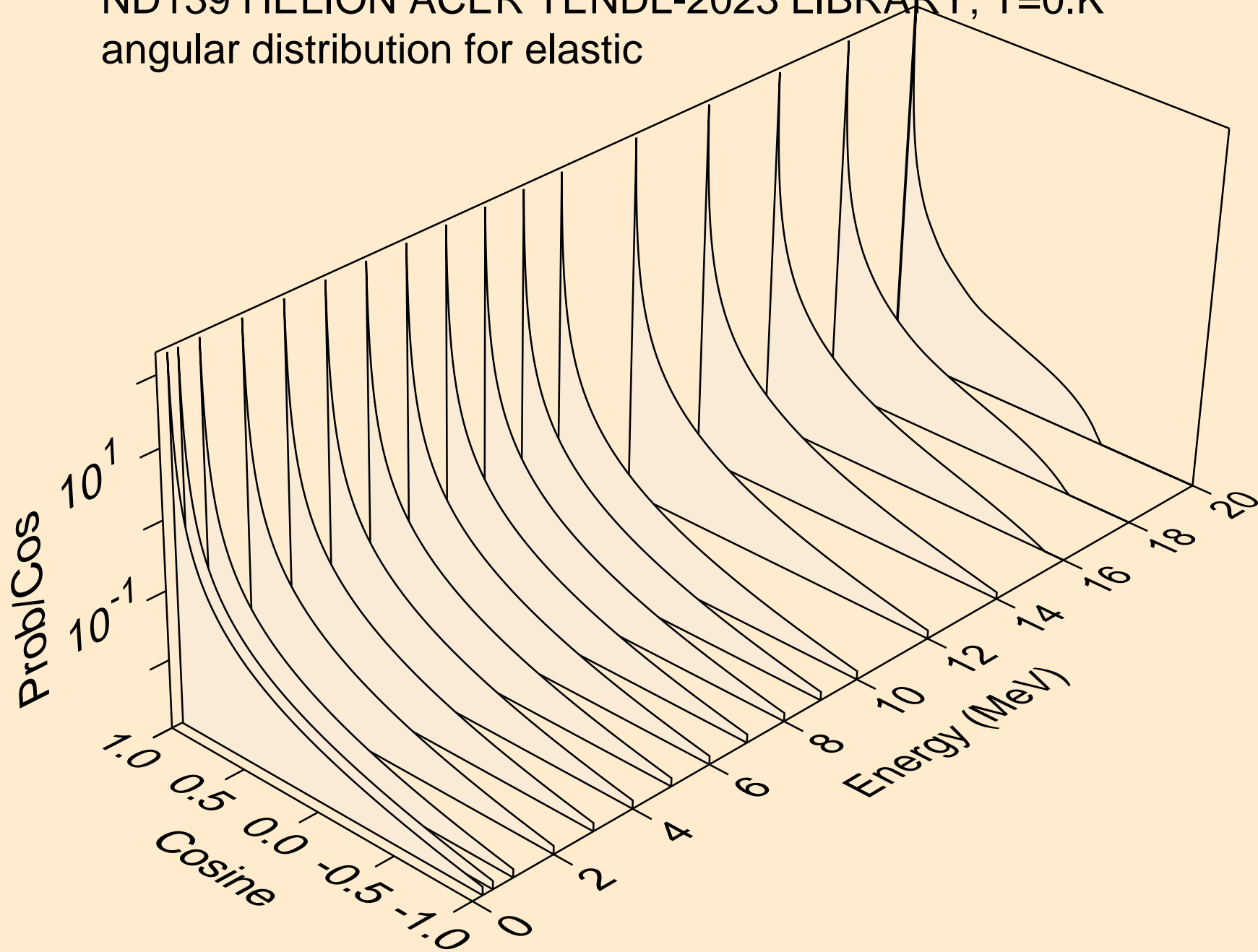
## Threshold reactions



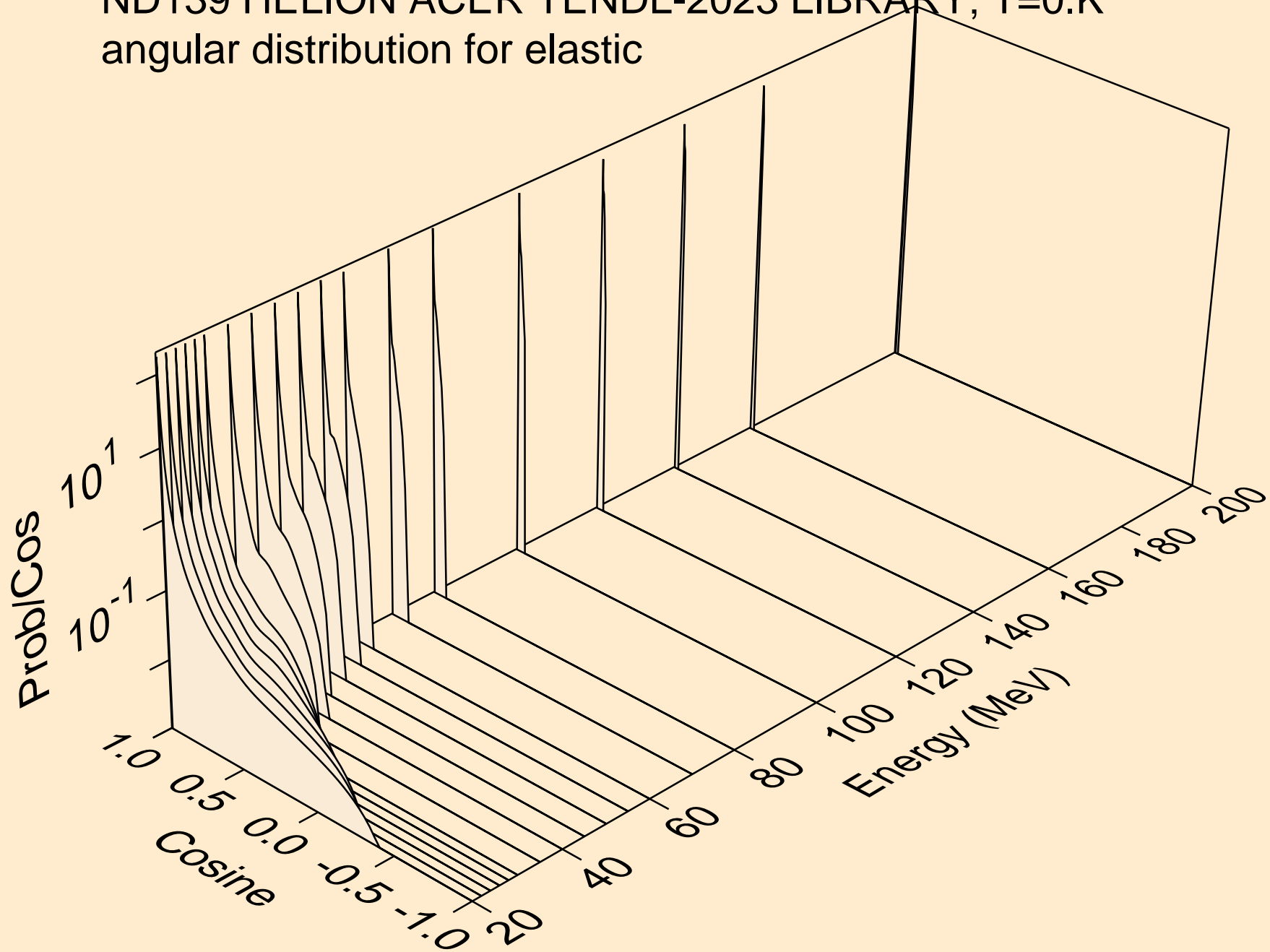
ND139 HELION ACER TENDL-2023 LIBRARY; T=0.K  
Threshold reactions



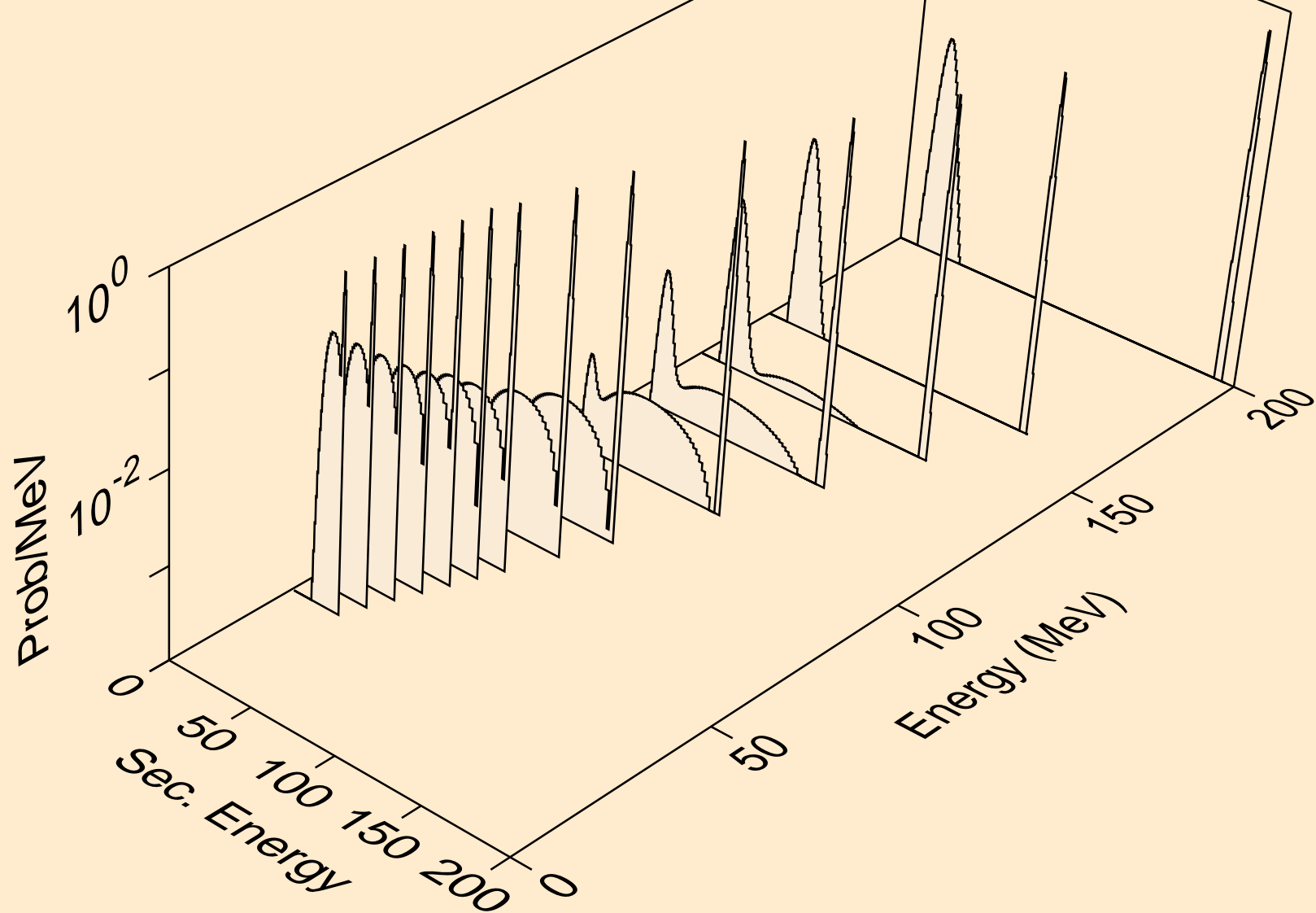
ND139 HELION ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for elastic



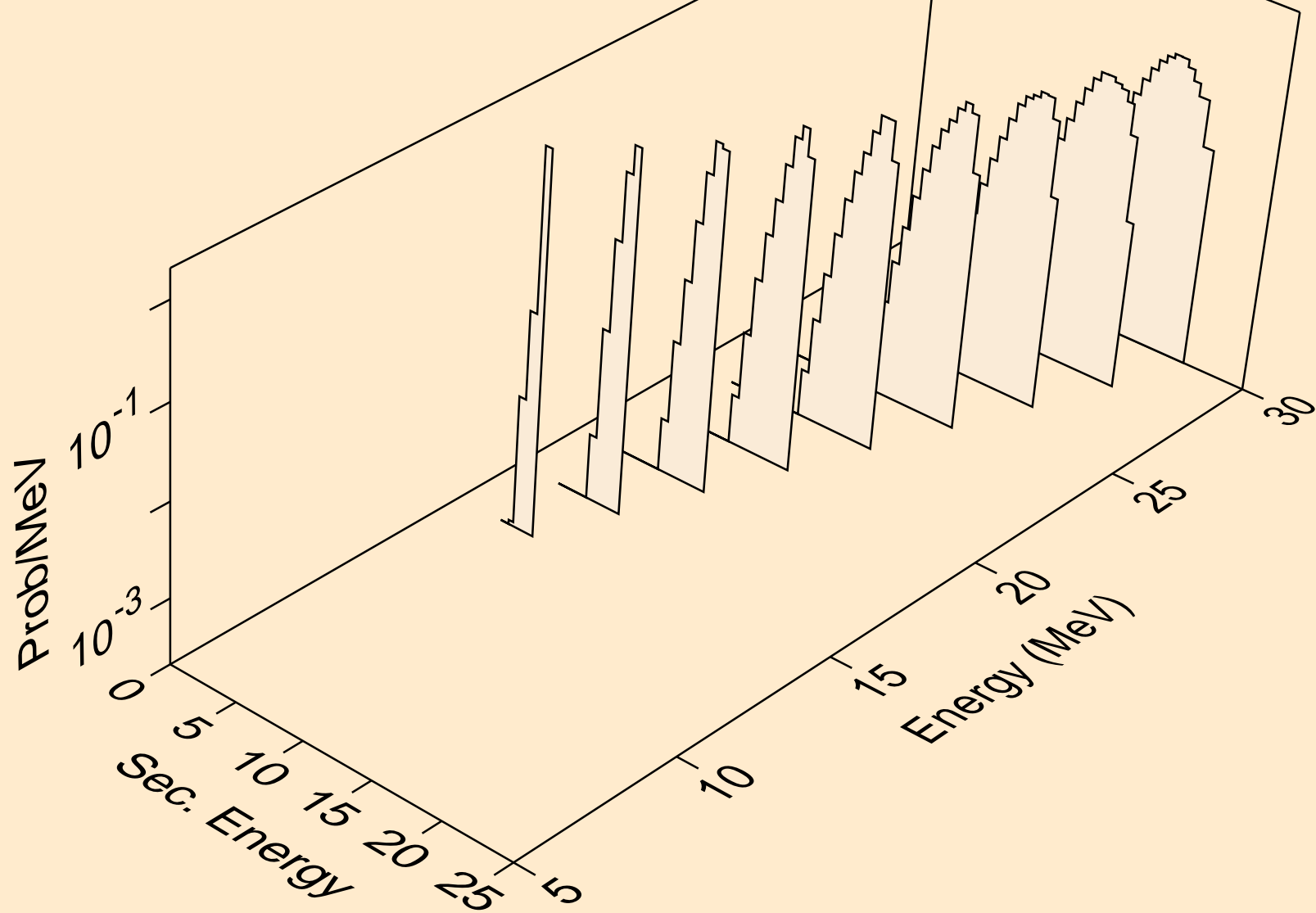
ND139 HELION ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for elastic



ND139 HELION ACER TENDL-2023 LIBRARY; T=0.K  
He-3 emission for (s,x)

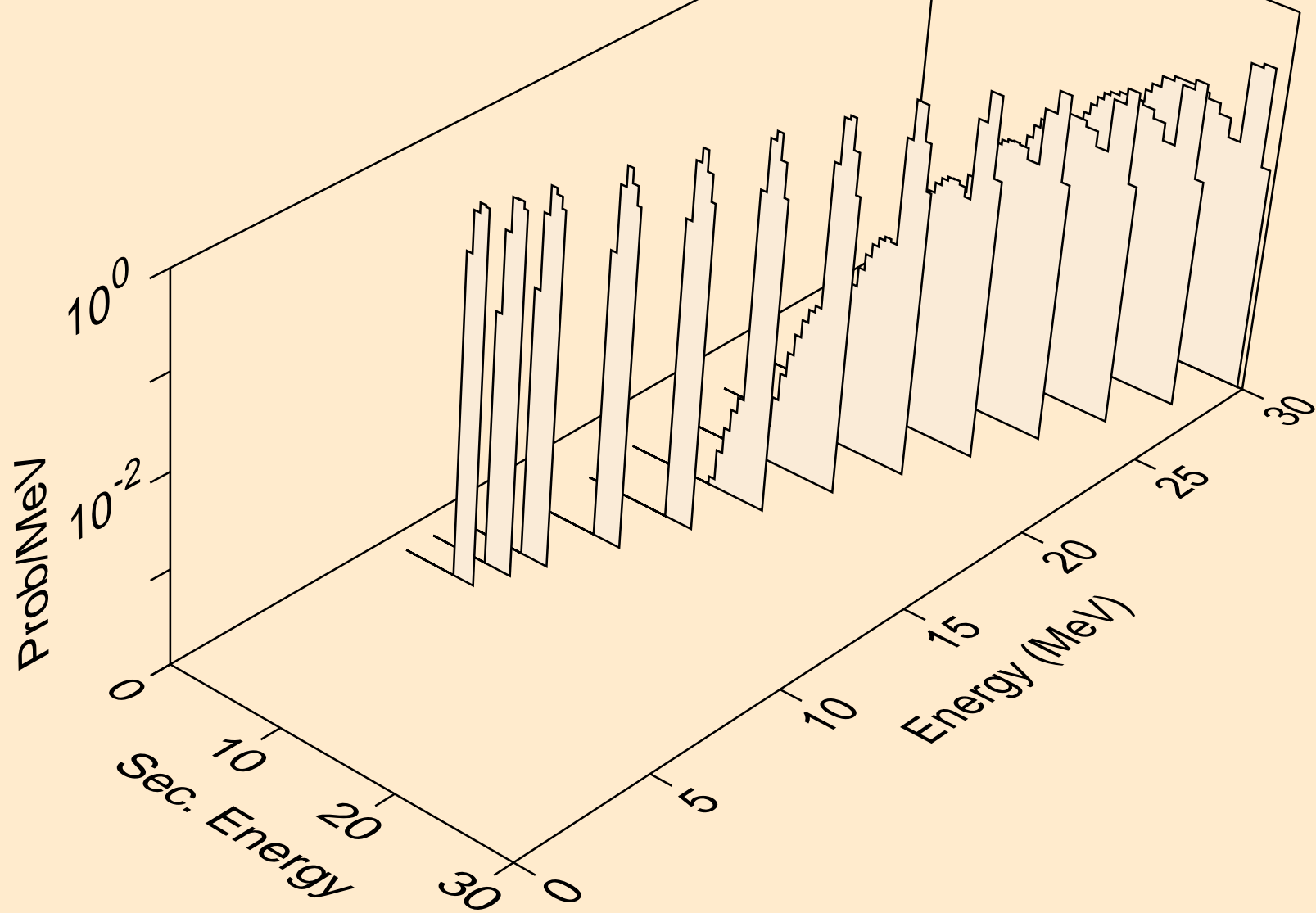


ND139 HELION ACER TENDL-2023 LIBRARY; T=0.K  
He-3 emission for (s,n\*)he3

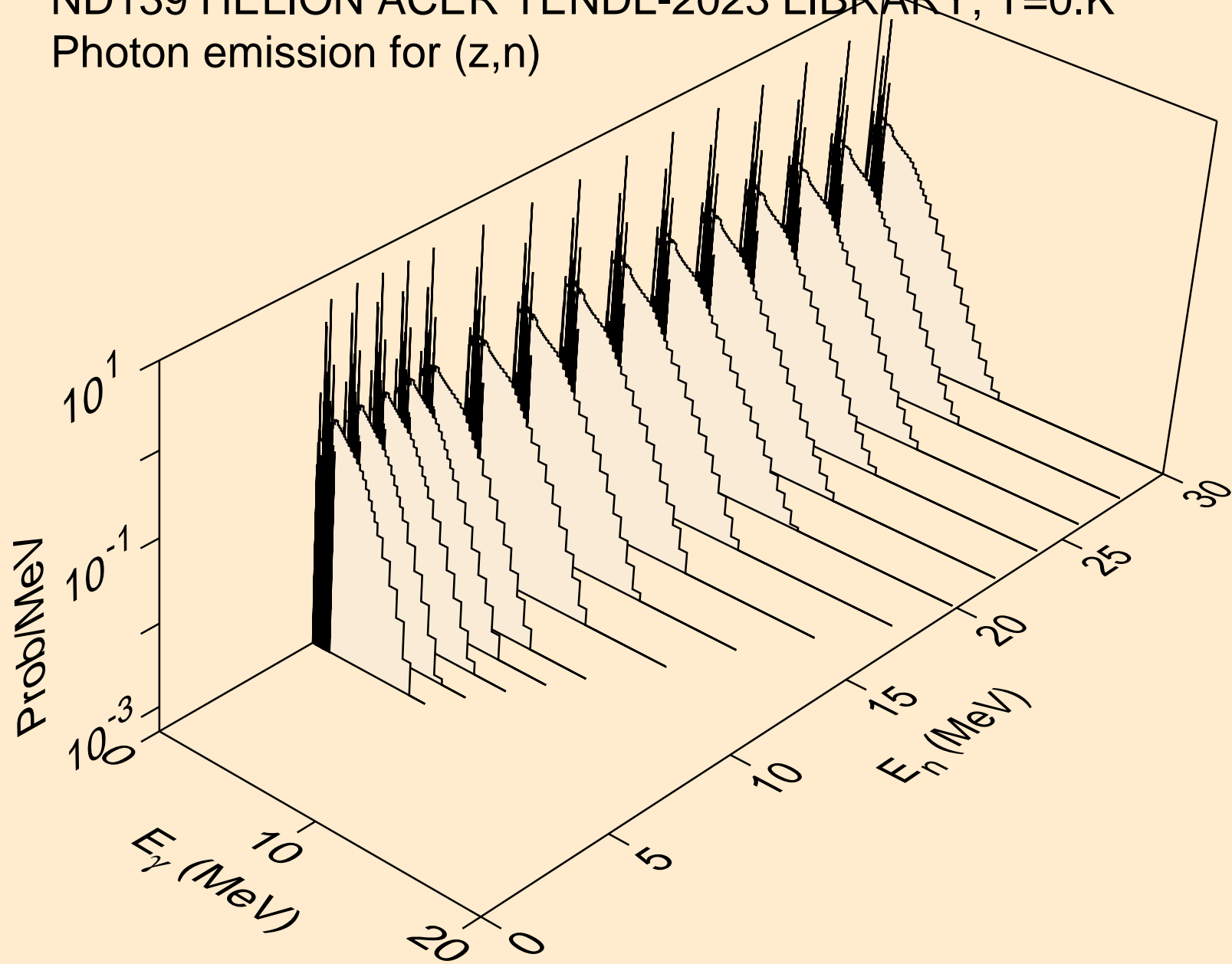




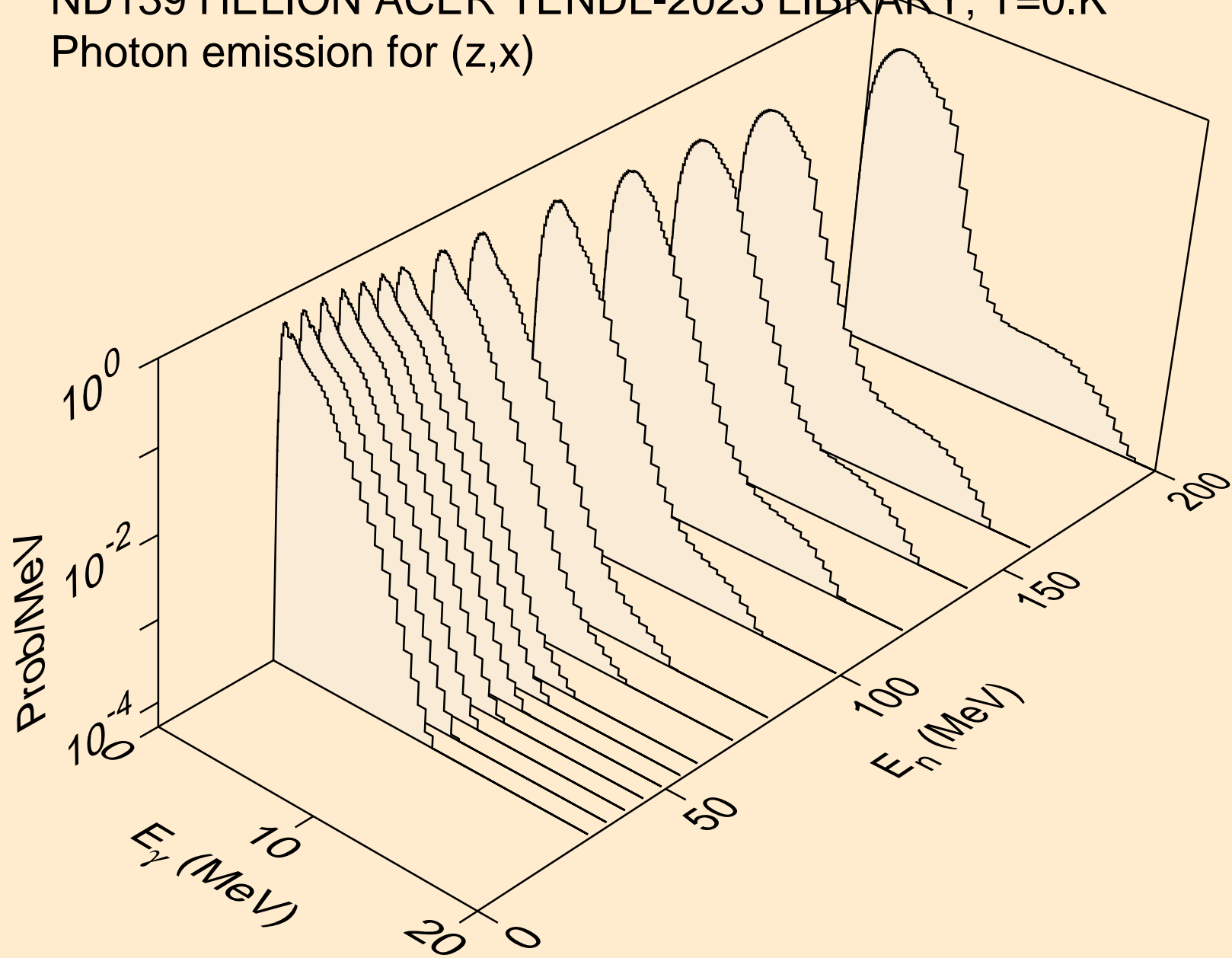
ND139 HELION ACER TENDL-2023 LIBRARY; T=0.K  
He-3 emission for inelastic



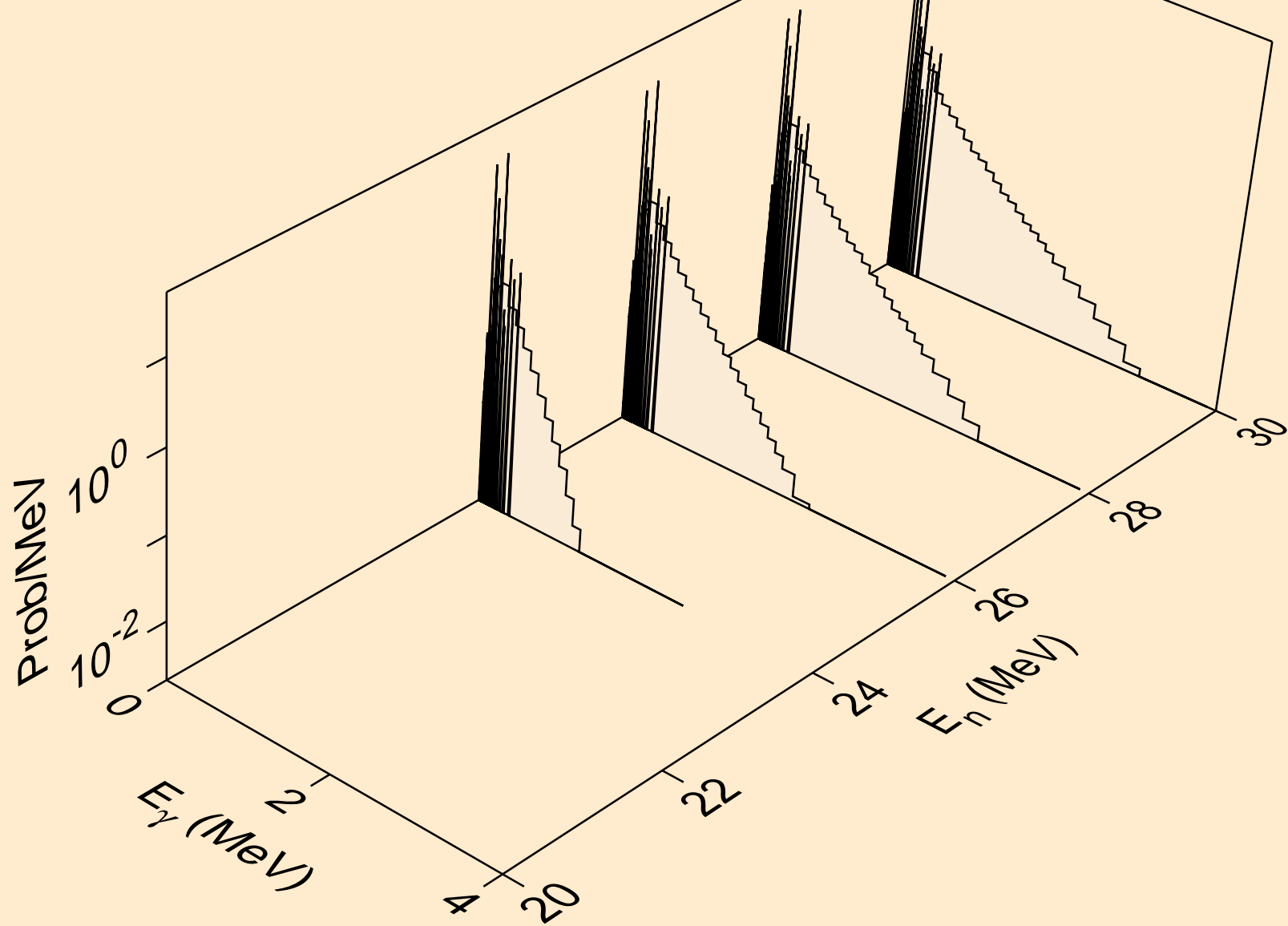
ND139 HELION ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (z,n)



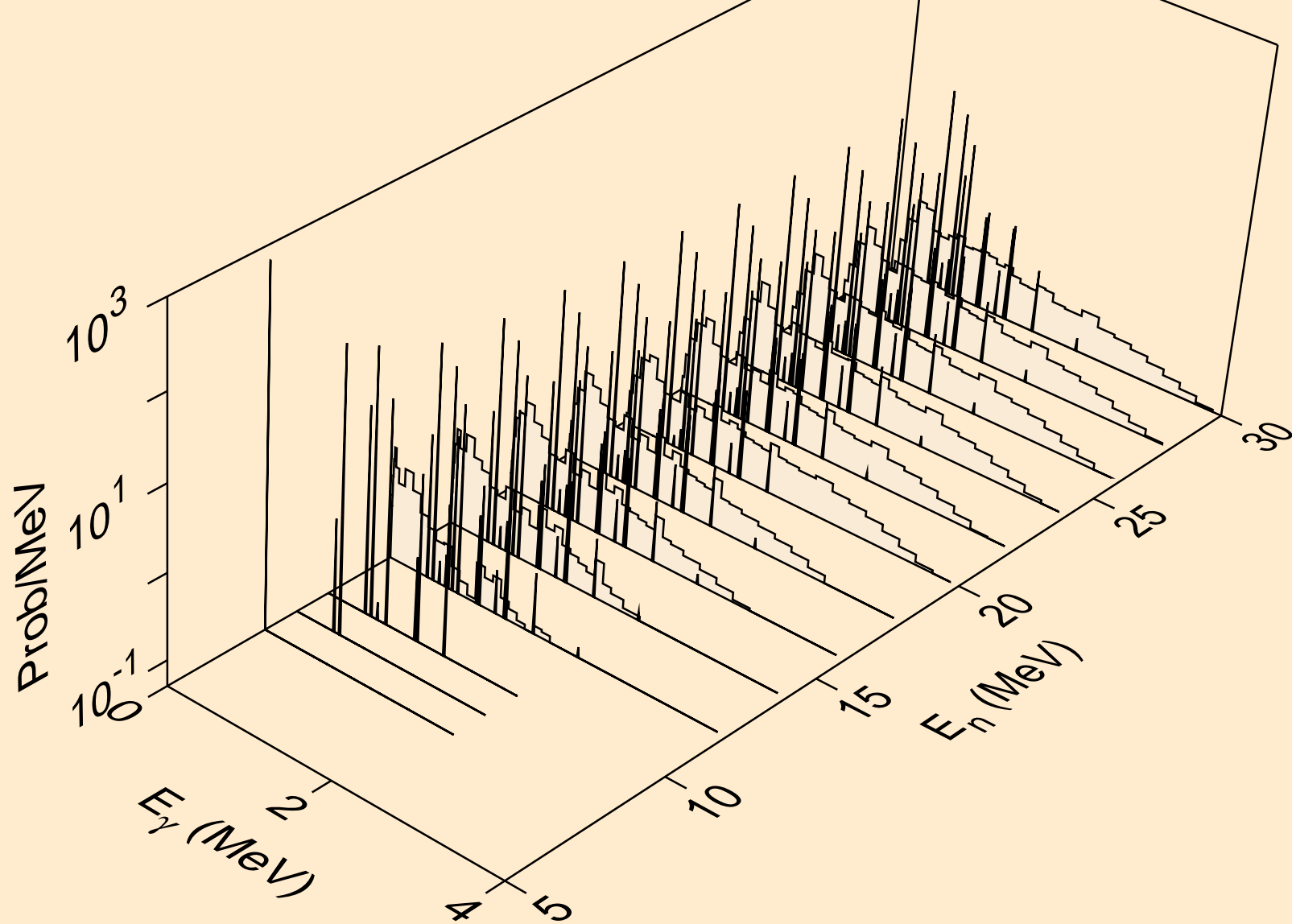
ND139 HELION ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (z,x)



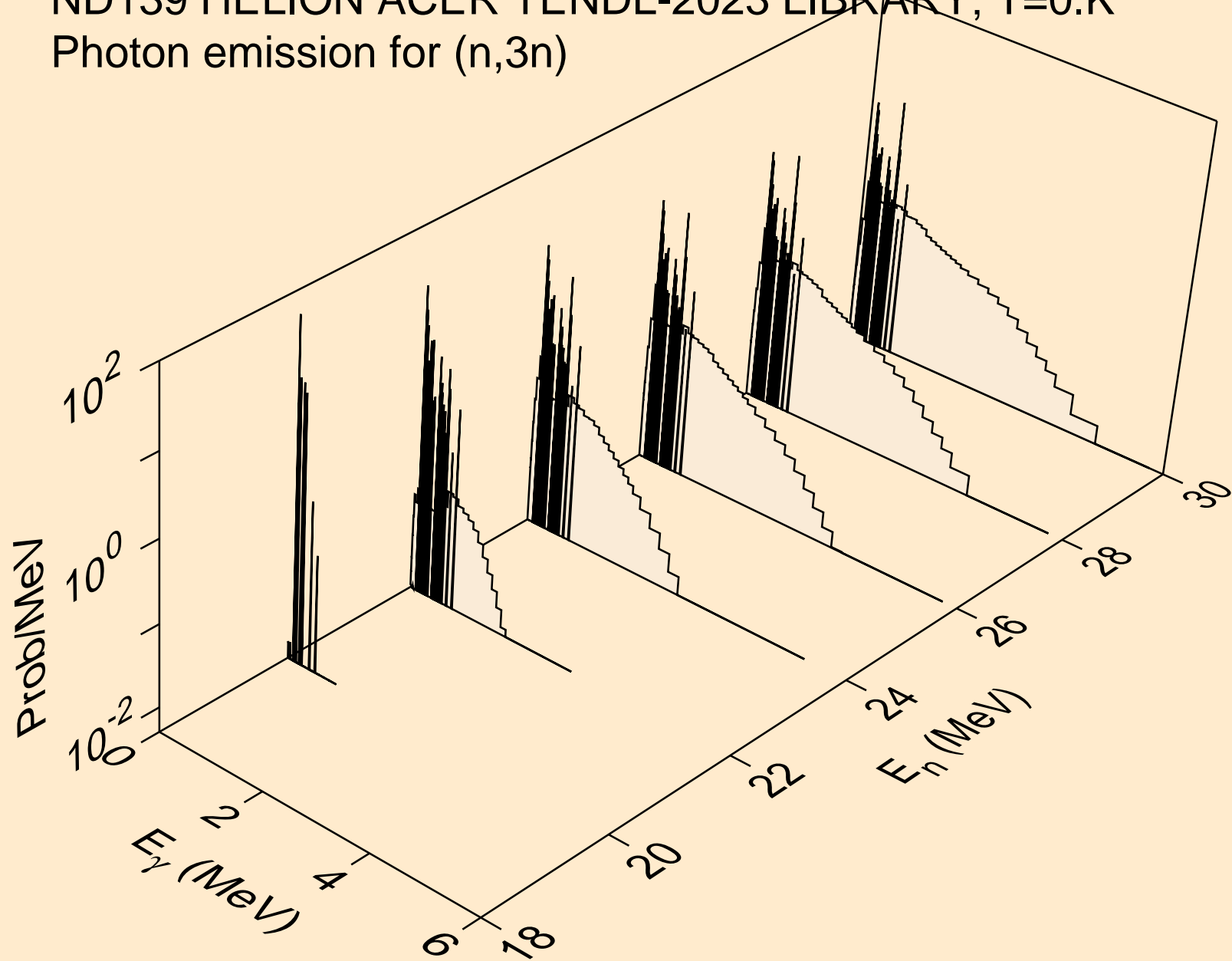
ND139 HELION ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2nd)



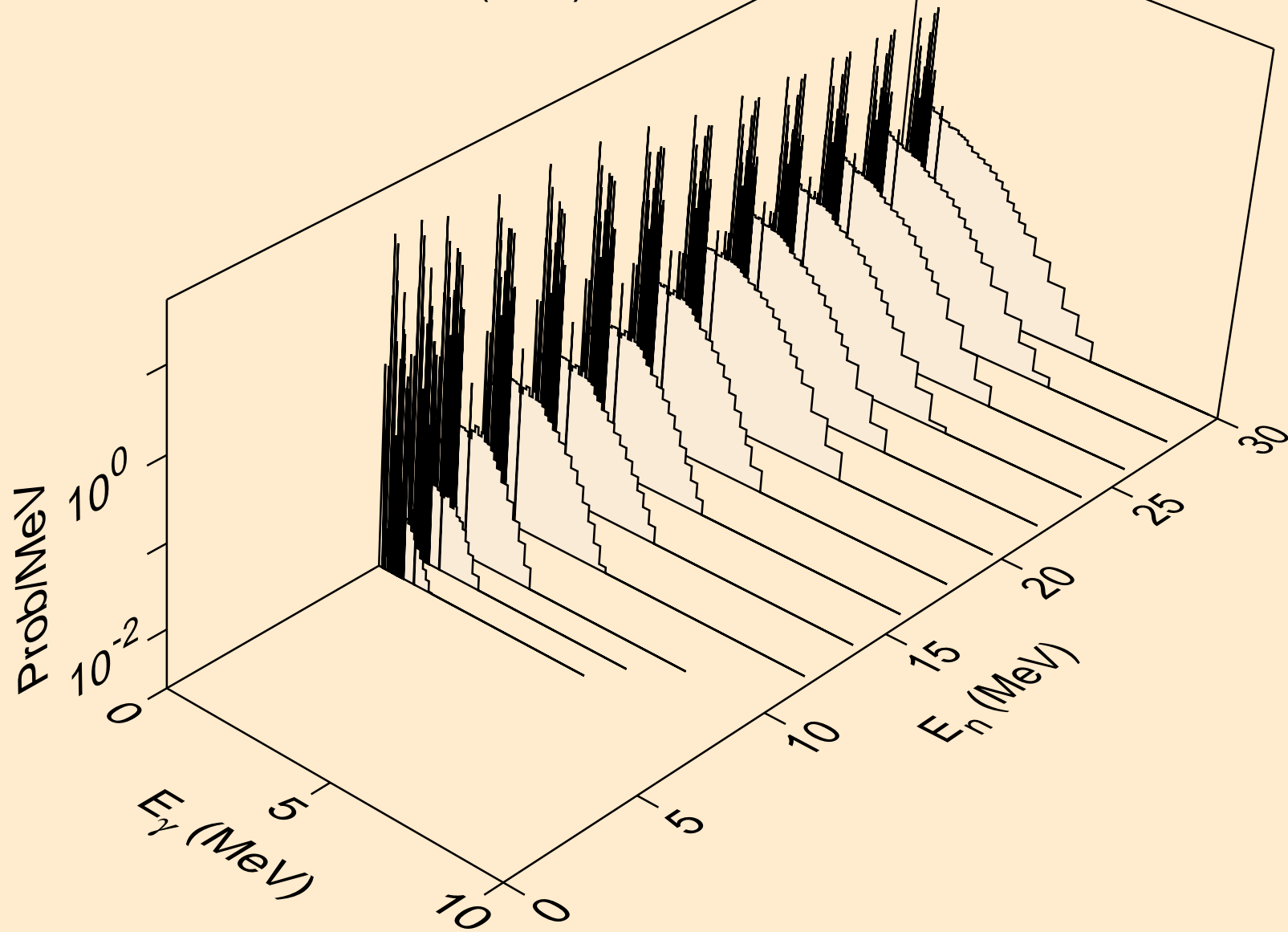
ND139 HELION ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2n)



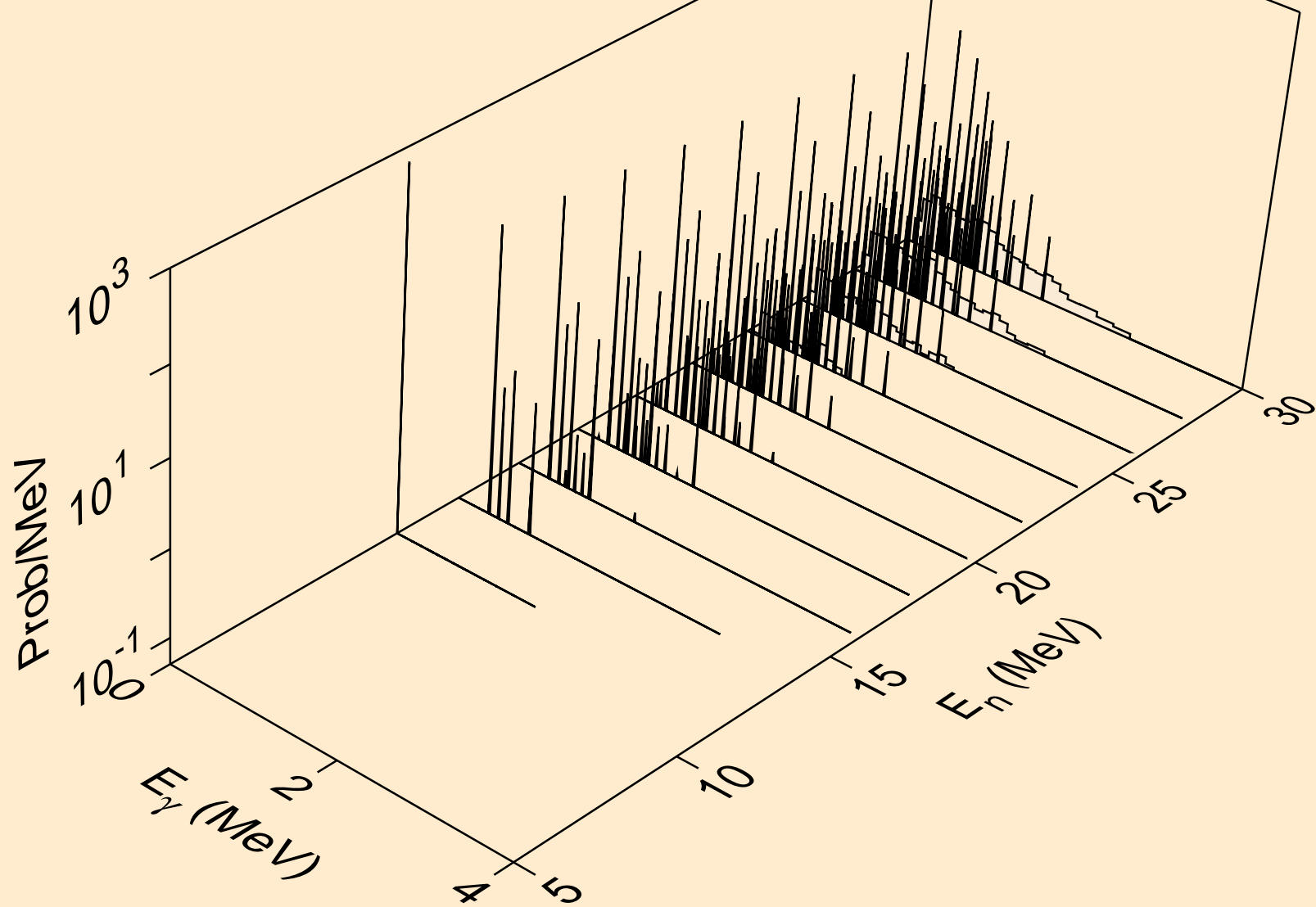
ND139 HELION ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,3n)



ND139 HELION ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)a

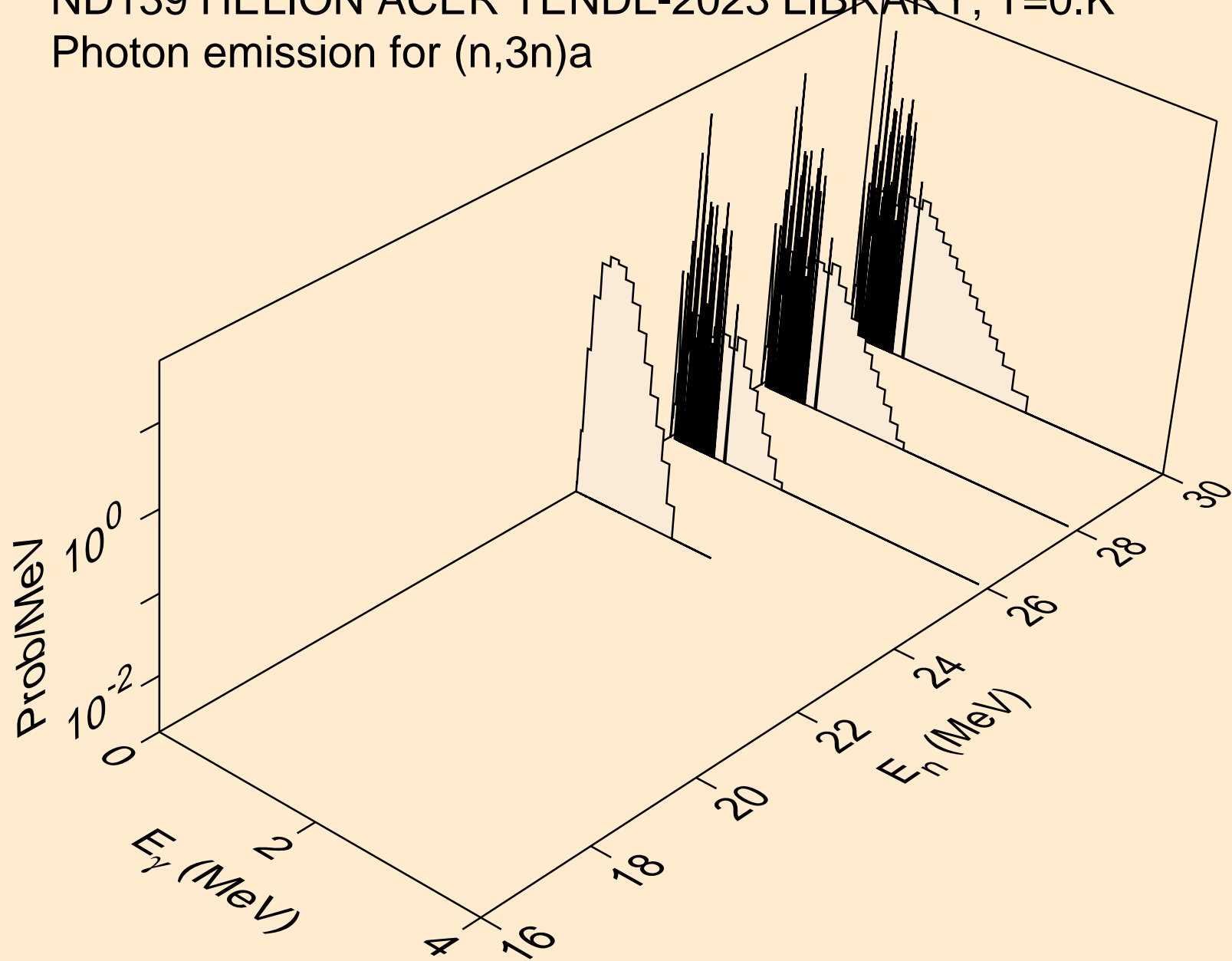


ND139 HELION ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2n)a

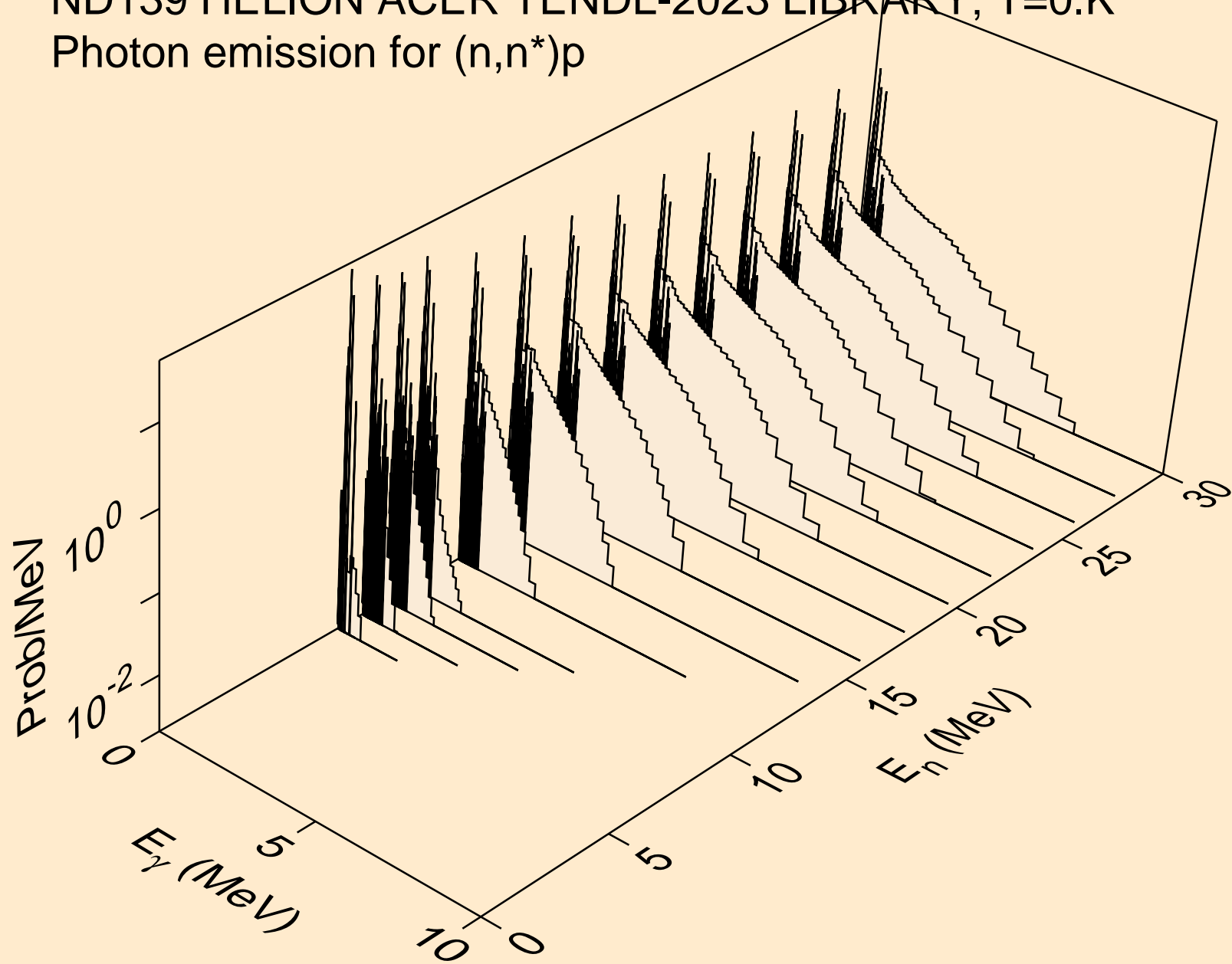




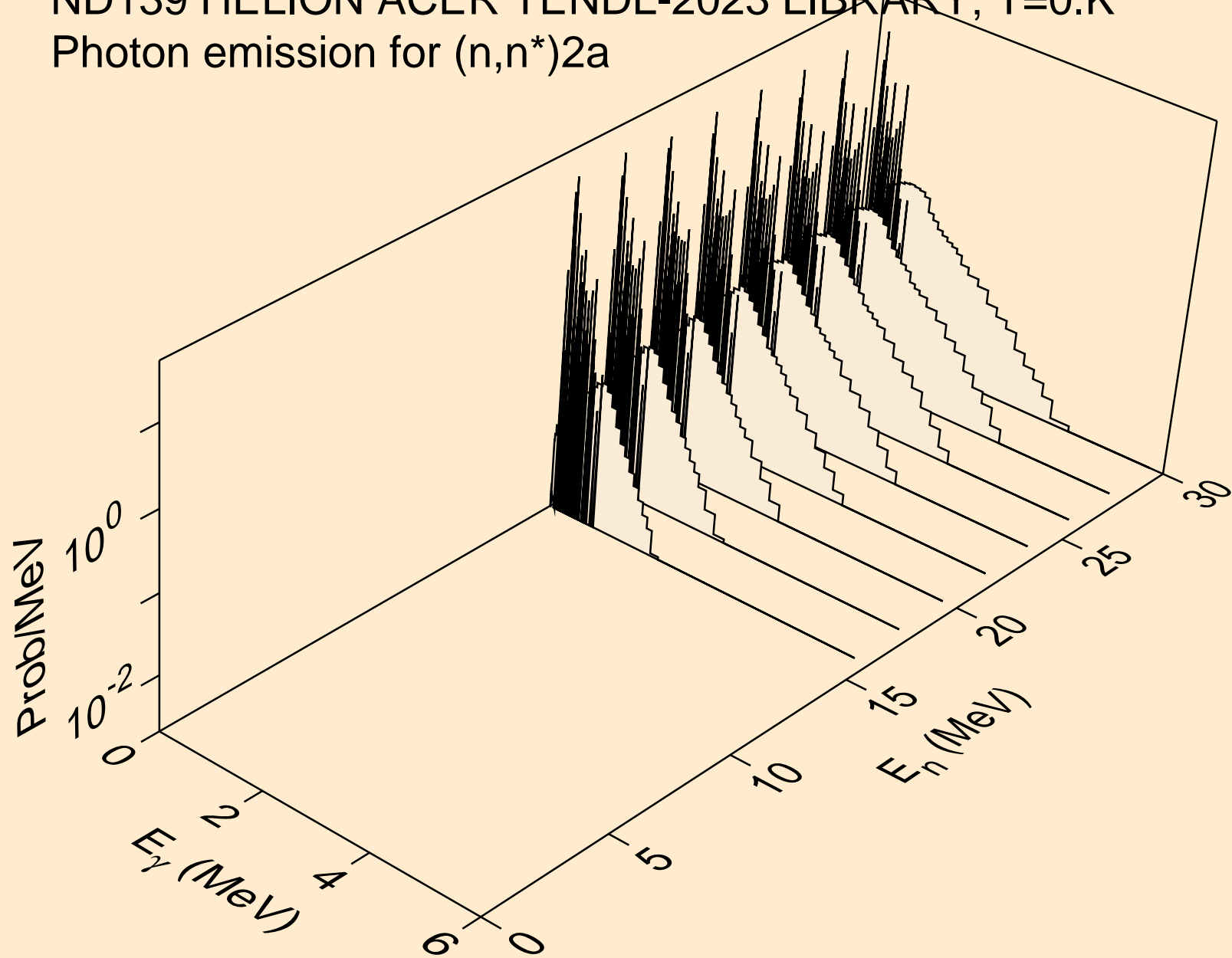
ND139 HELION ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,3n)a



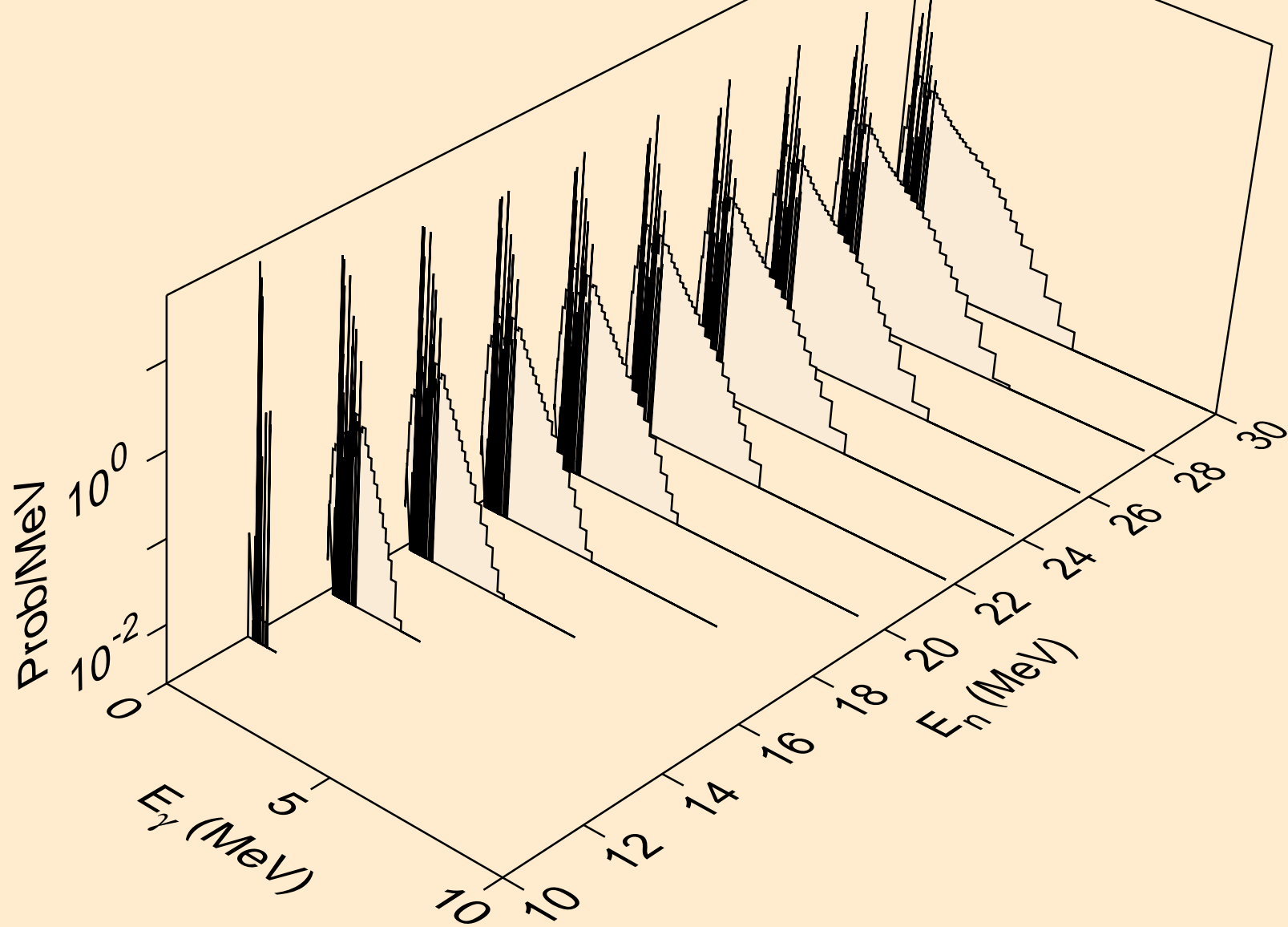
ND139 HELION ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)p



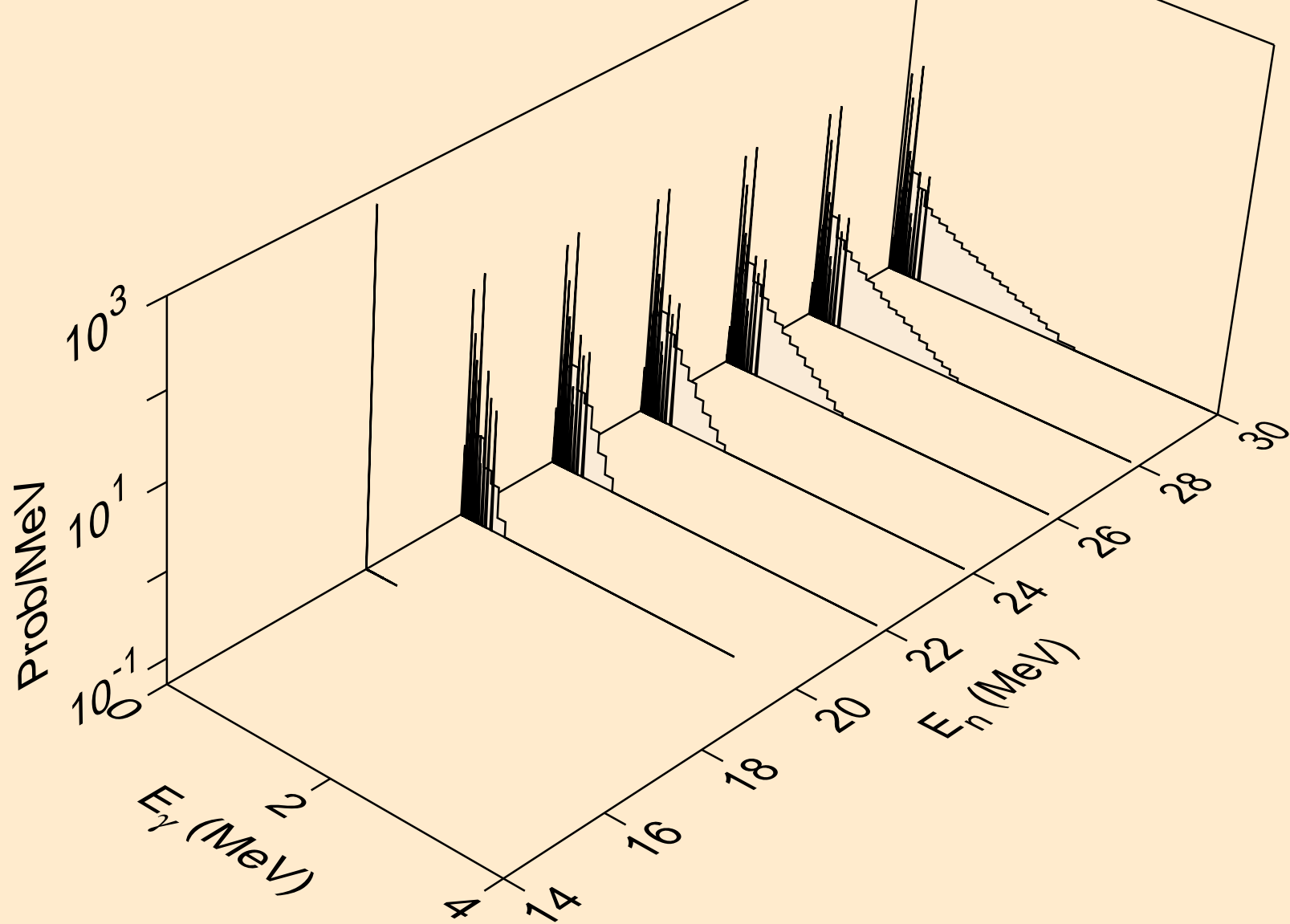
ND139 HELION ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)2a



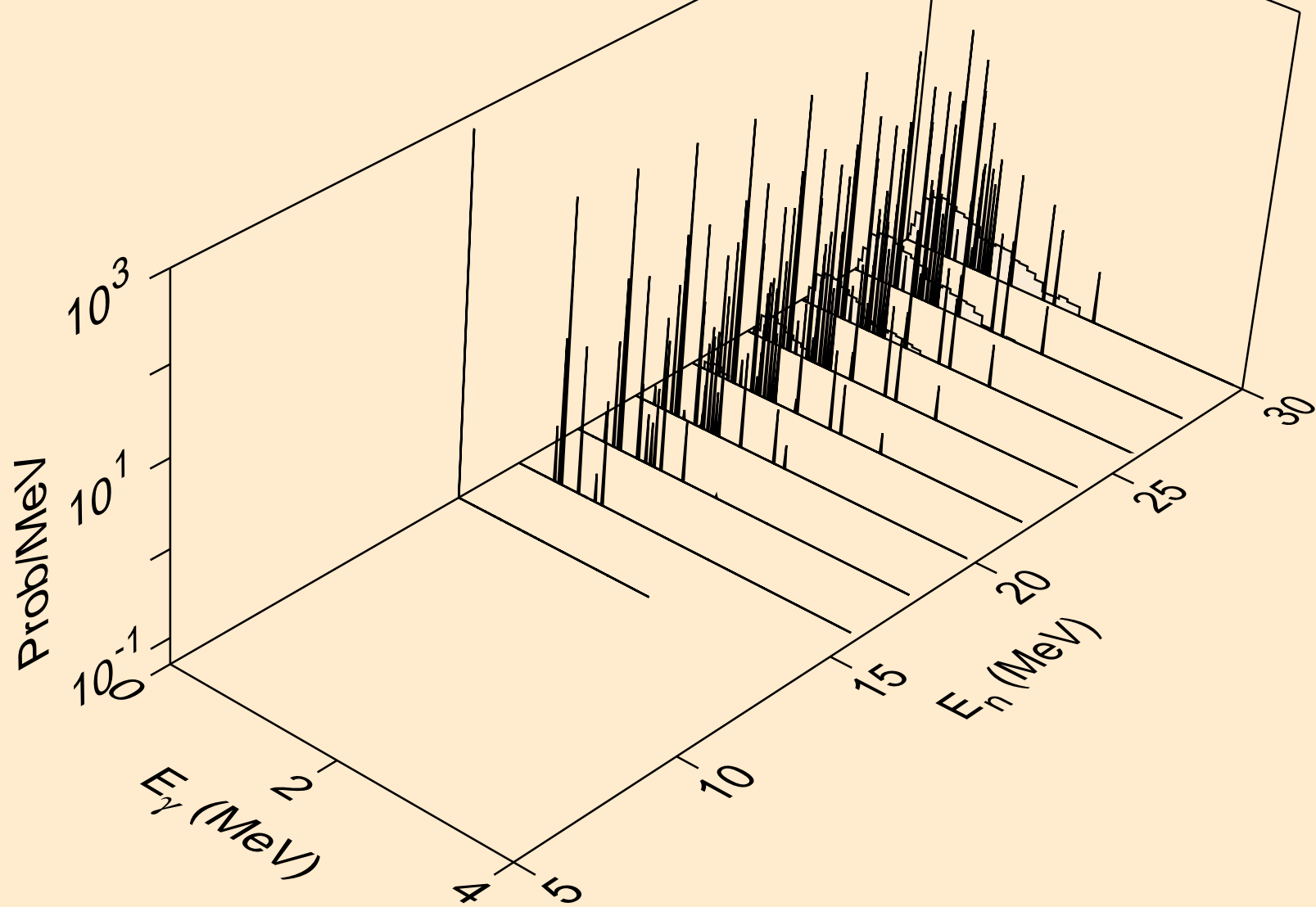
ND139 HELION ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)d



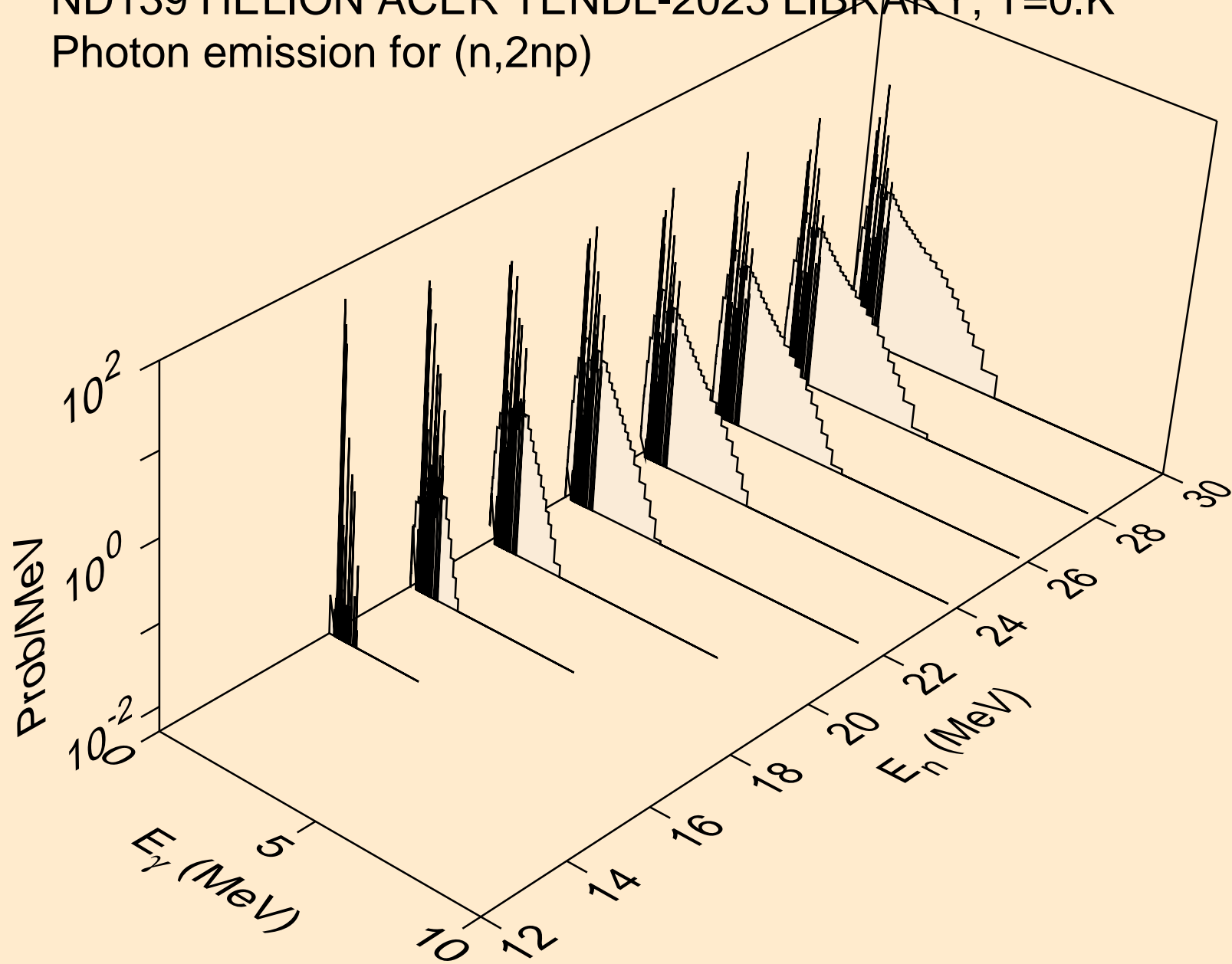
ND139 HELION ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)t



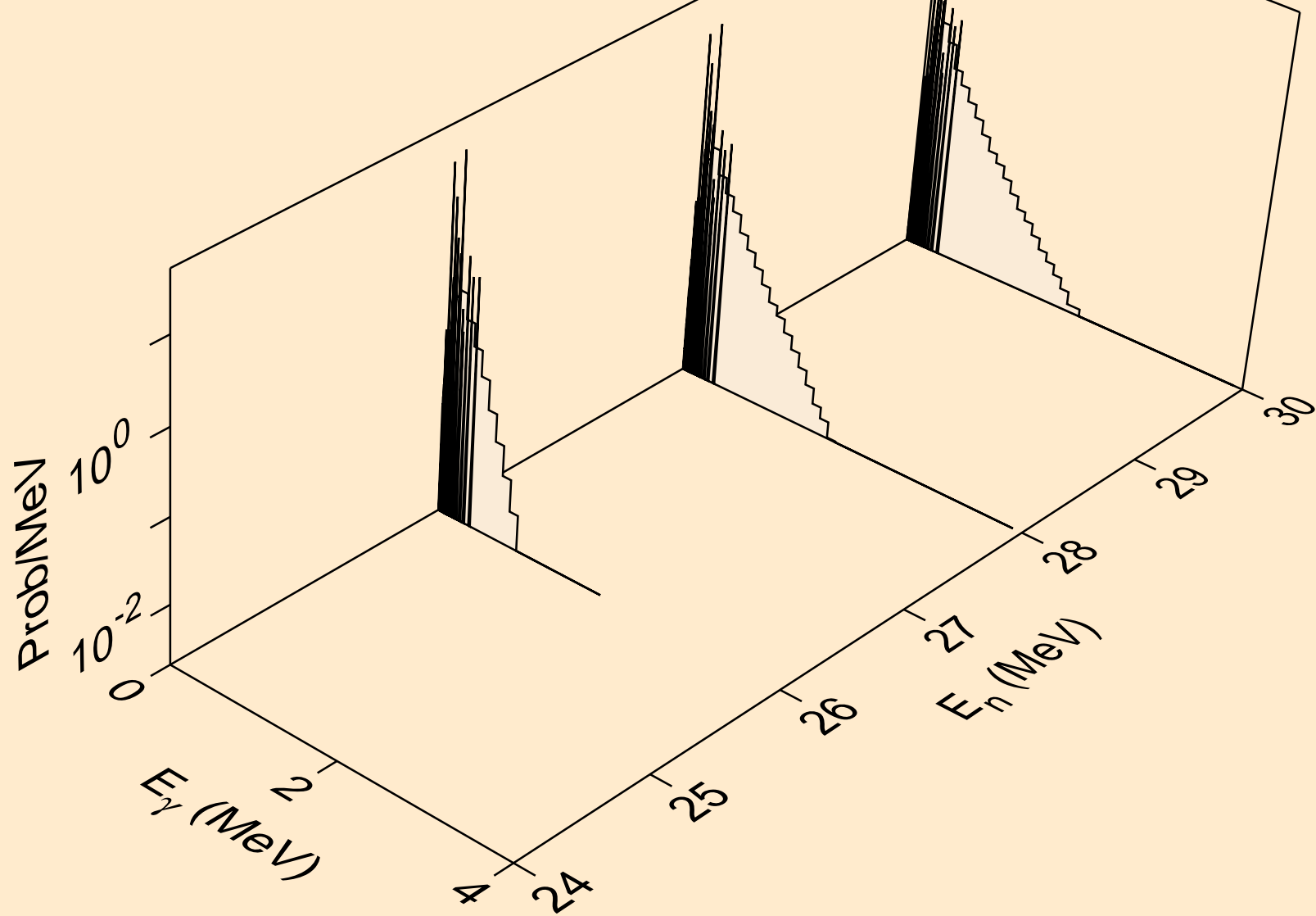
ND139 HELION ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)he3



ND139 HELION ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2np)

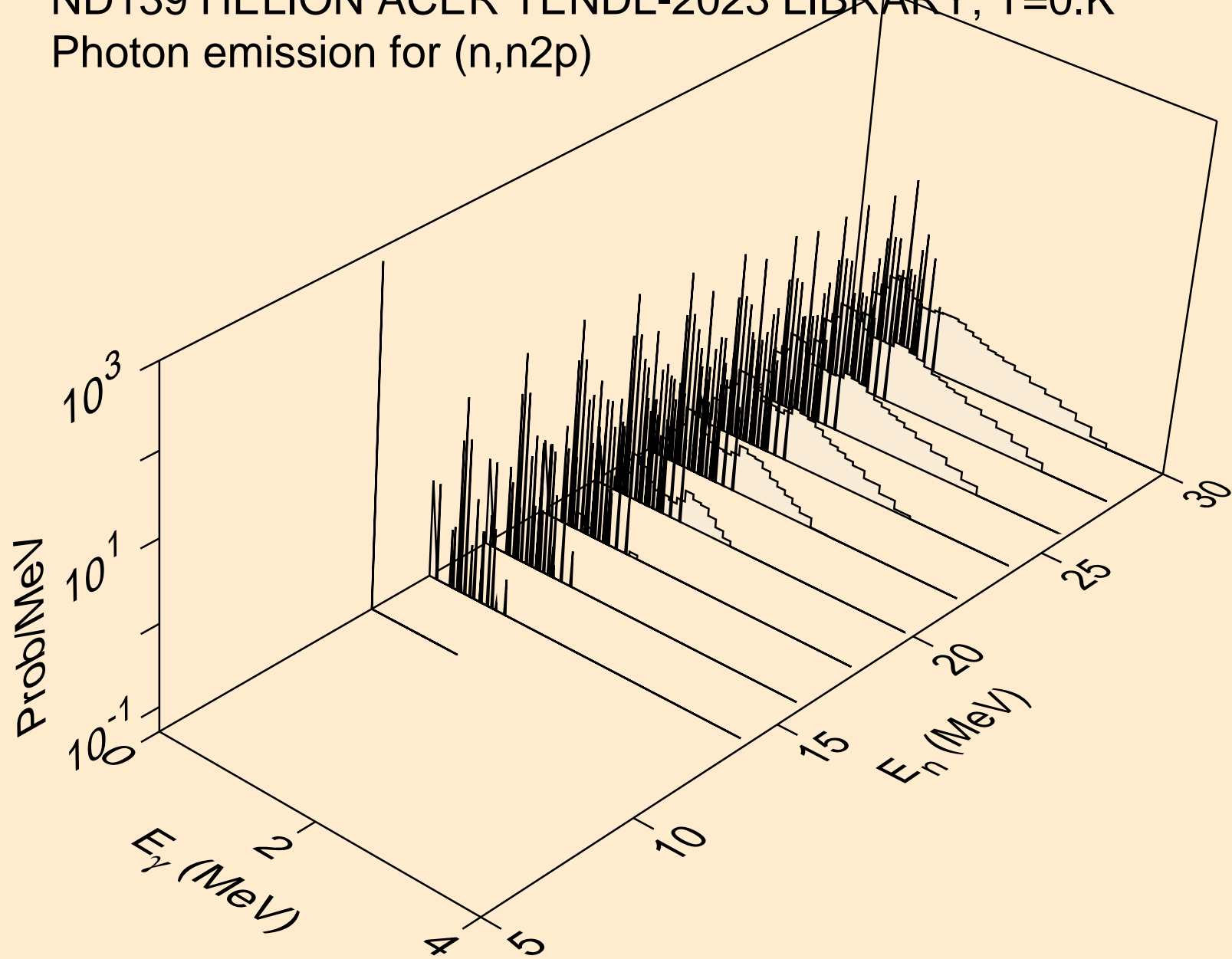


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Photon emission for (n,3np)

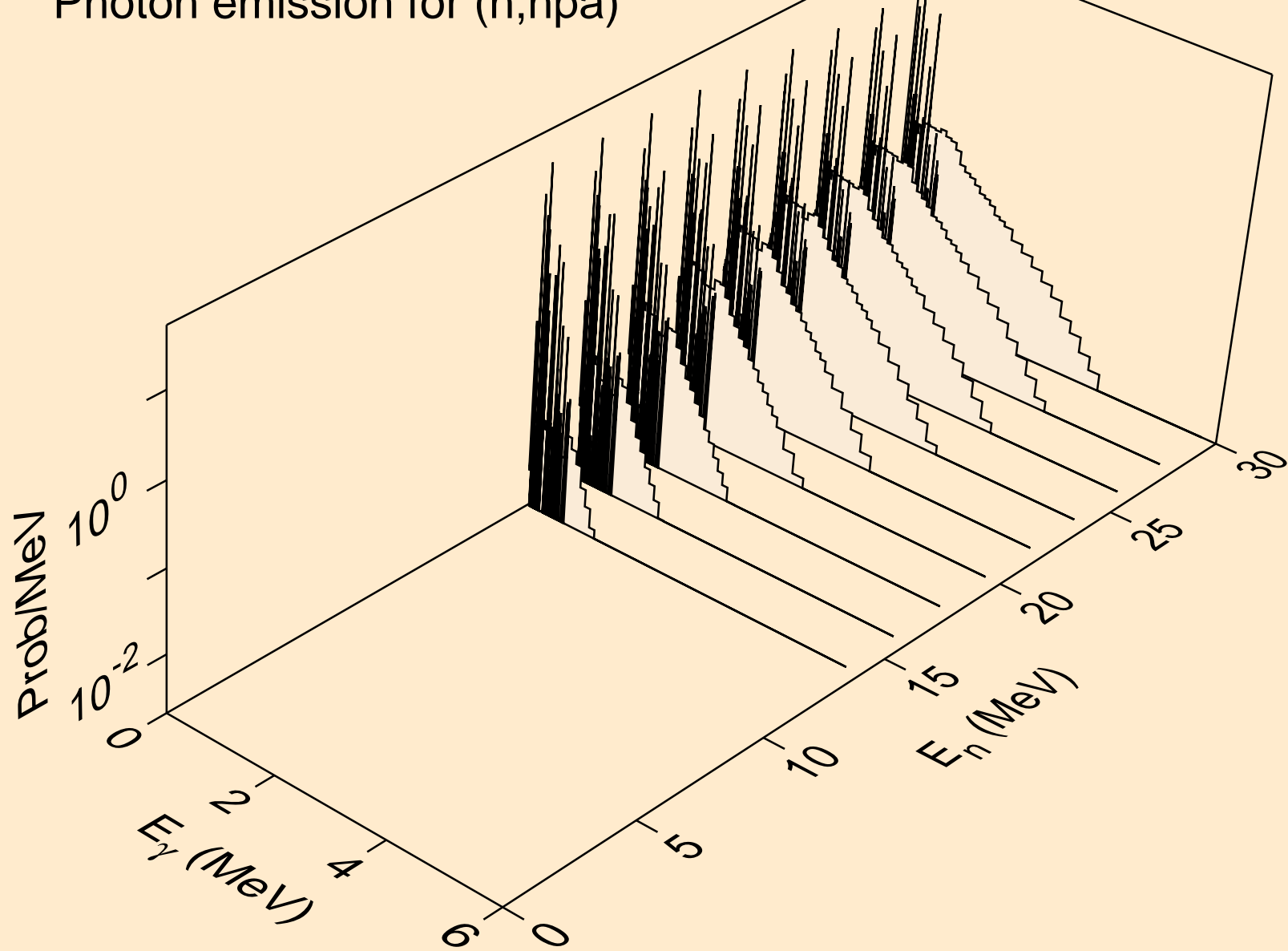




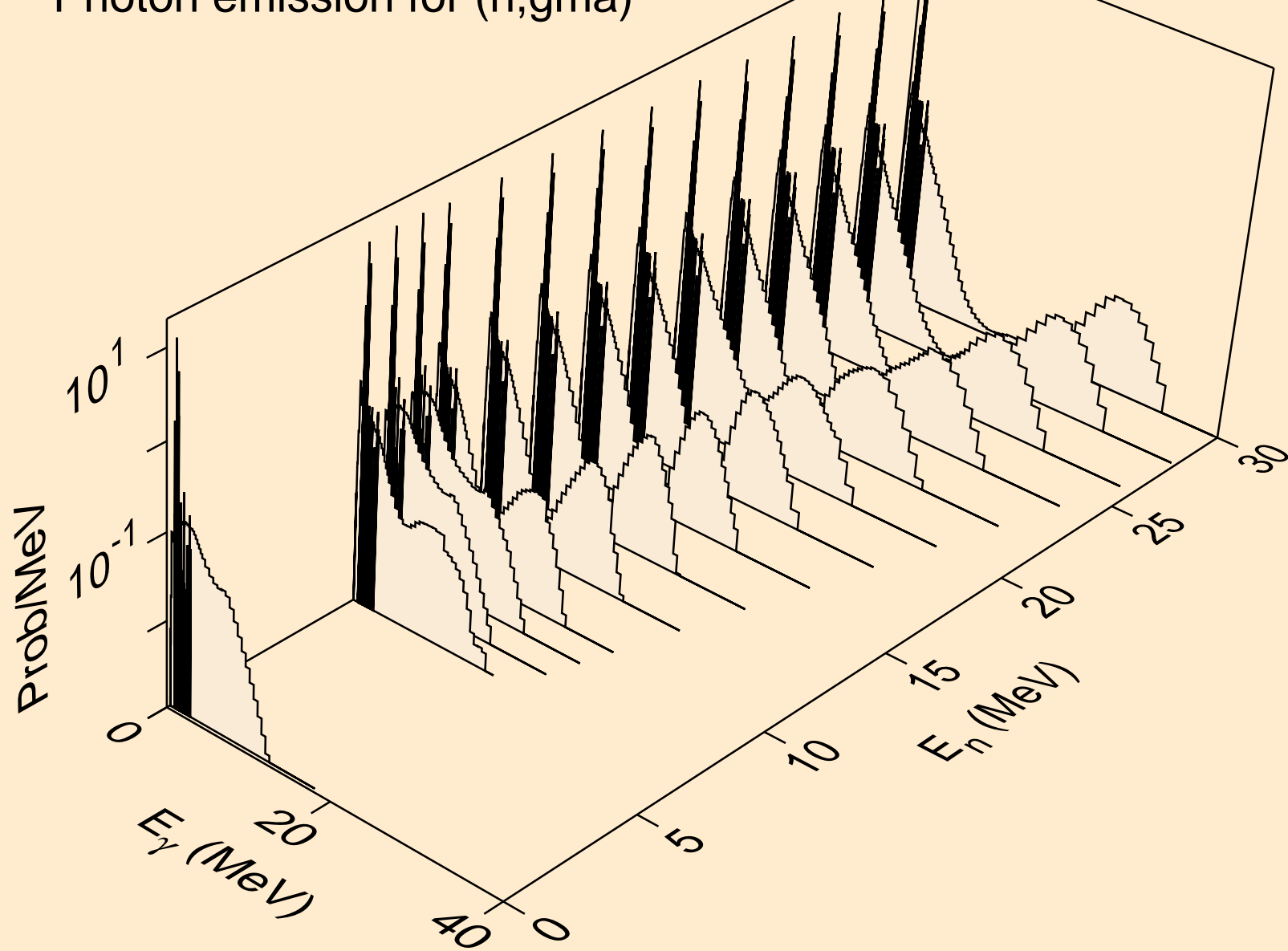
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Photon emission for (n,n2p)



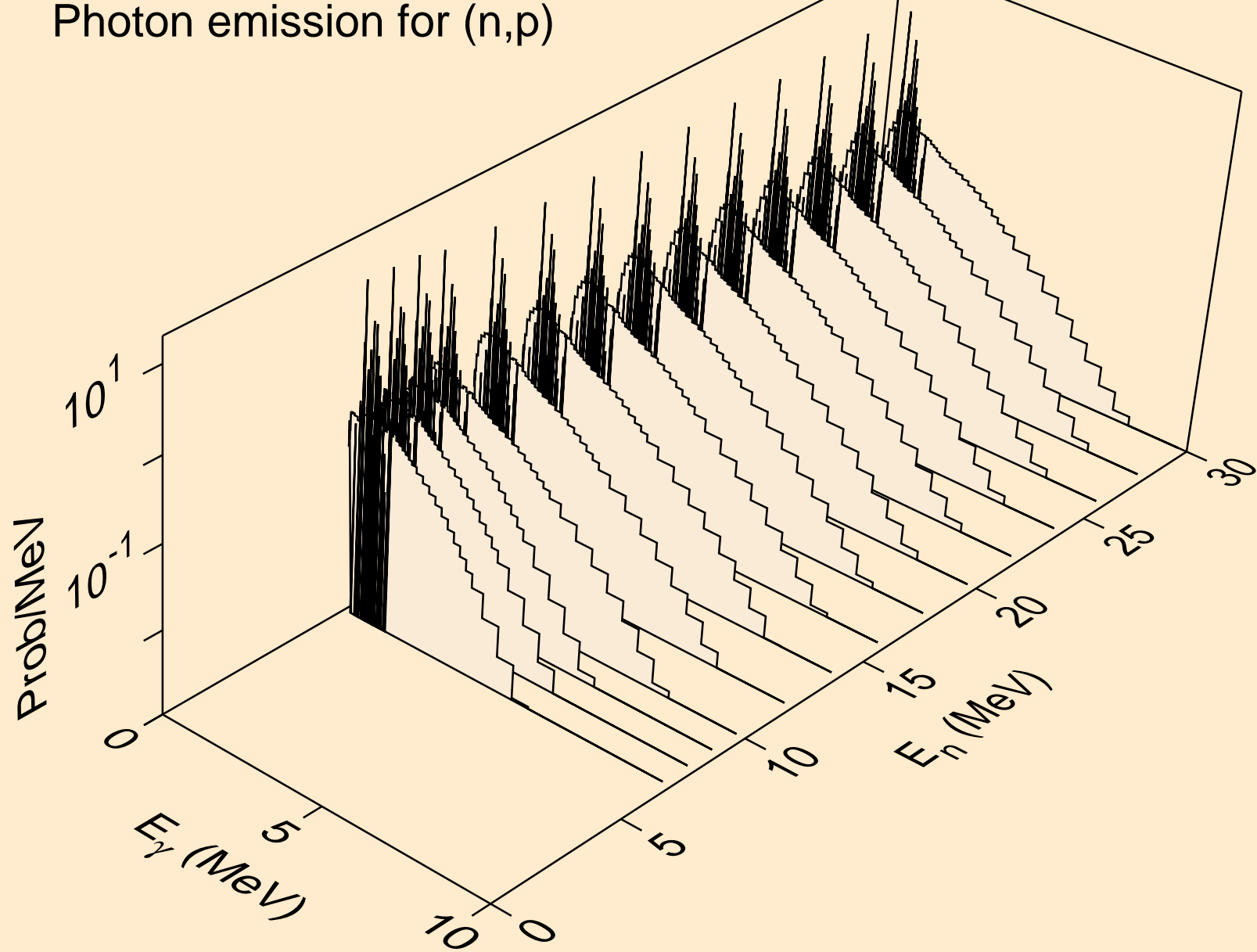
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Photon emission for (n,npa)



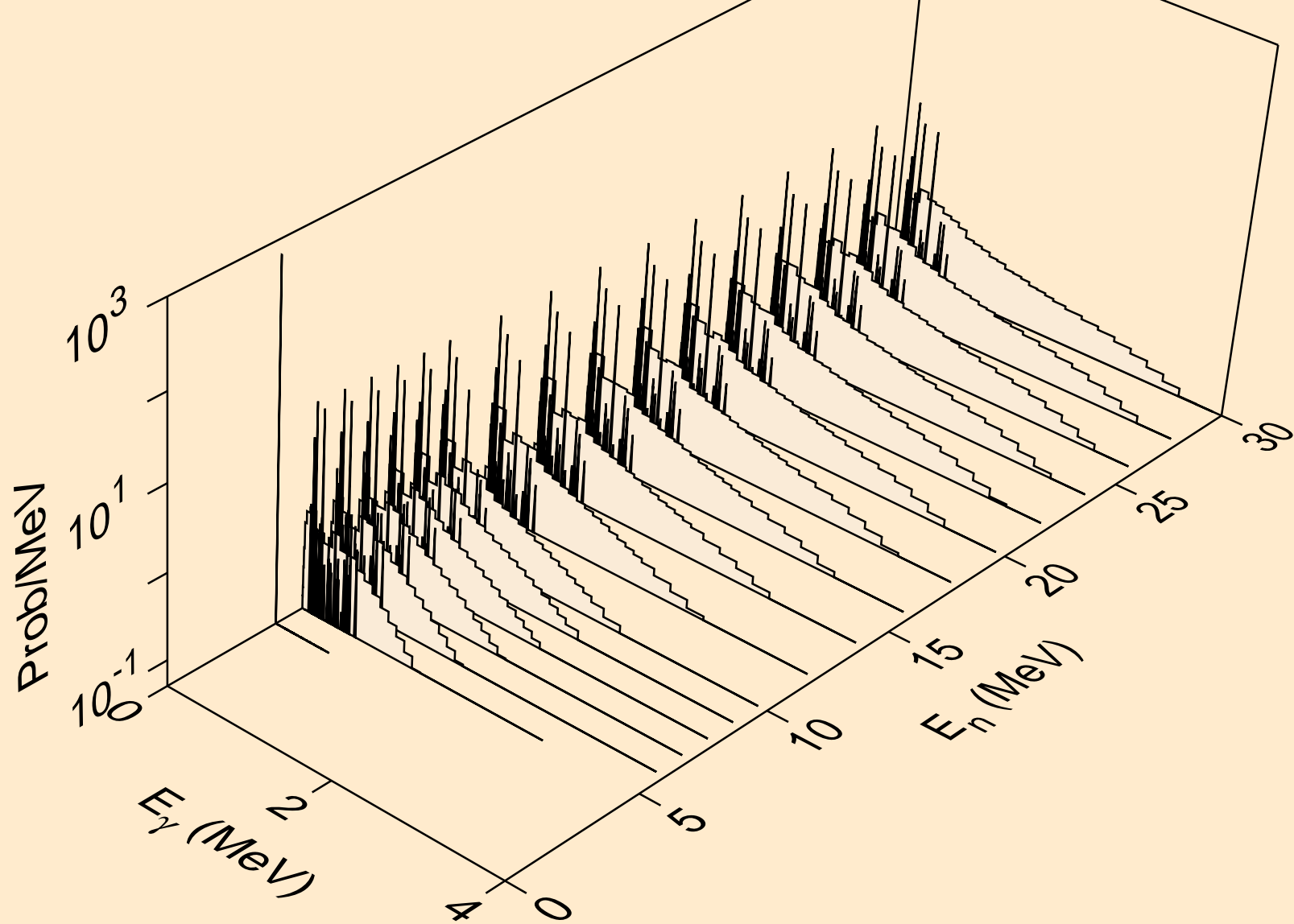
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Photon emission for (n,gma)



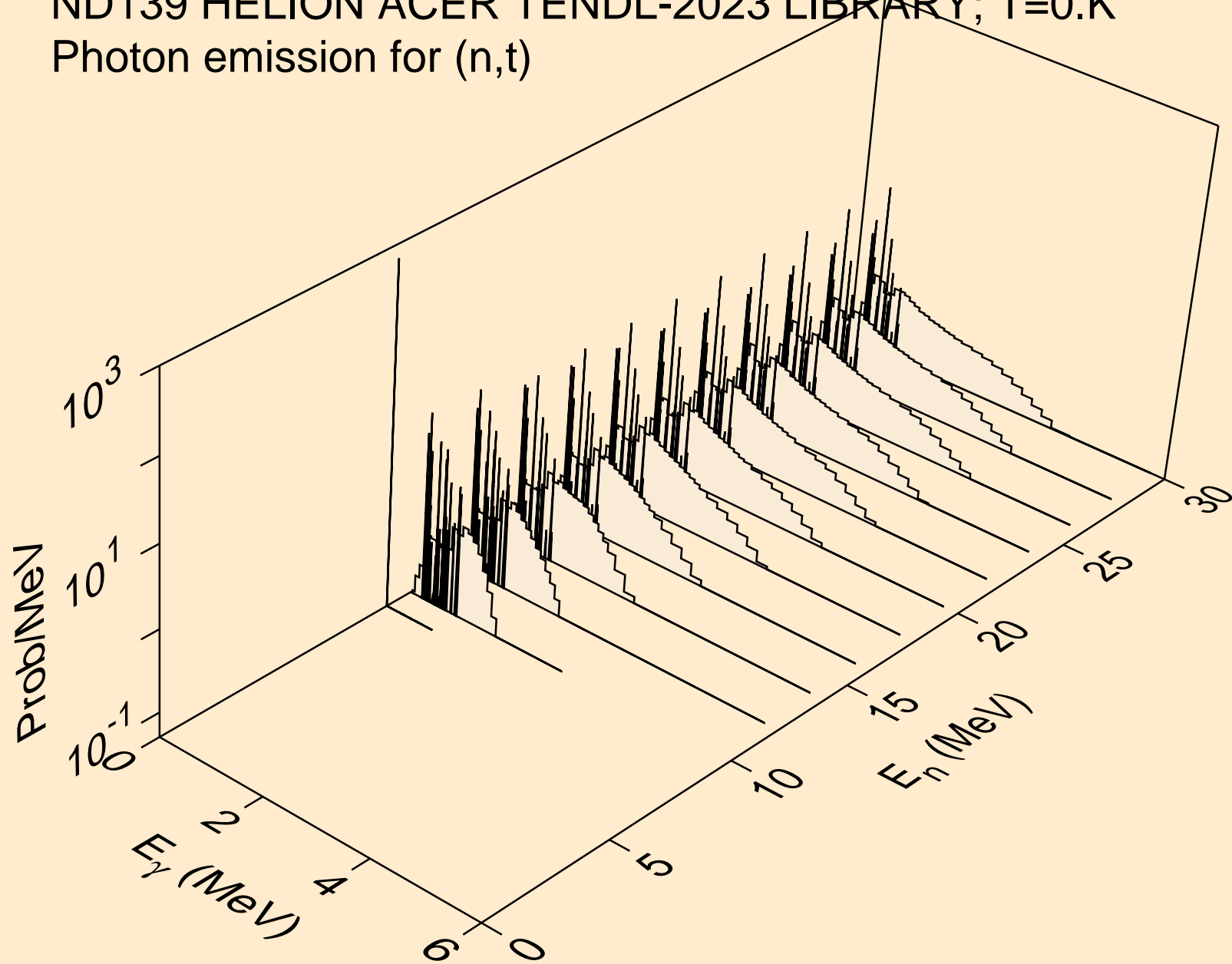
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Photon emission for (n,p)



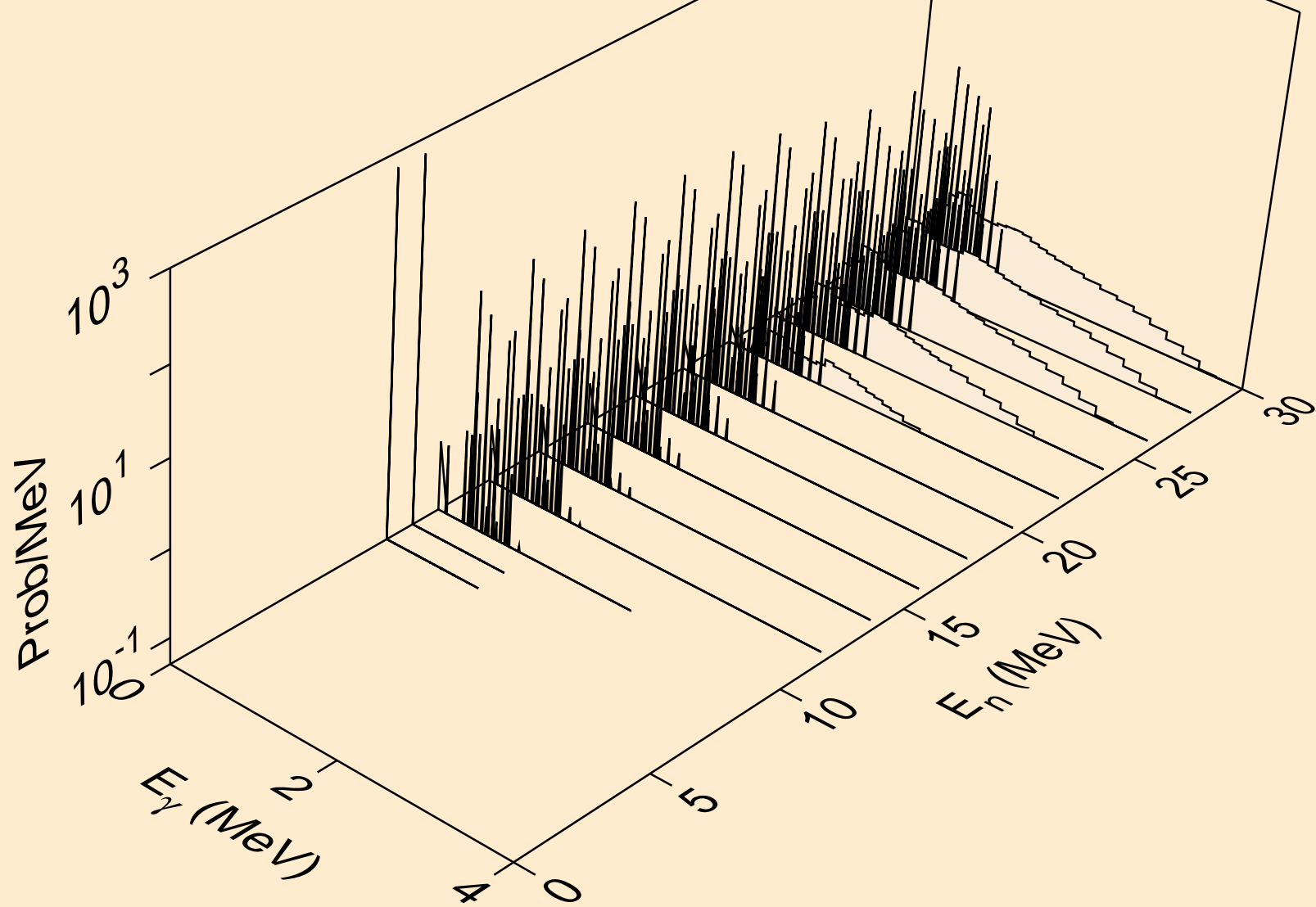
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Photon emission for (n,d)



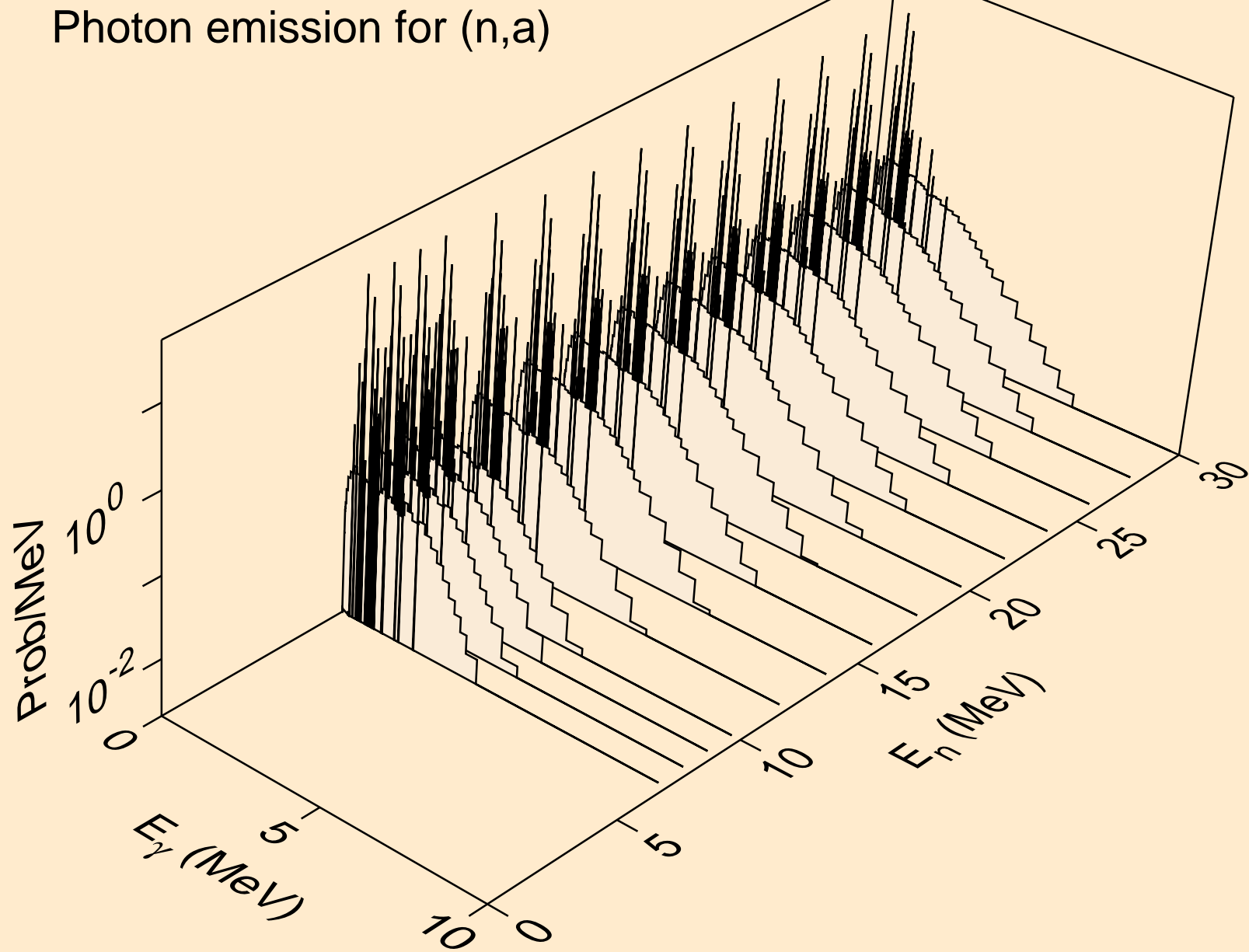
ND139 HELION ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,t)



ND139 HELION ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for inelastic

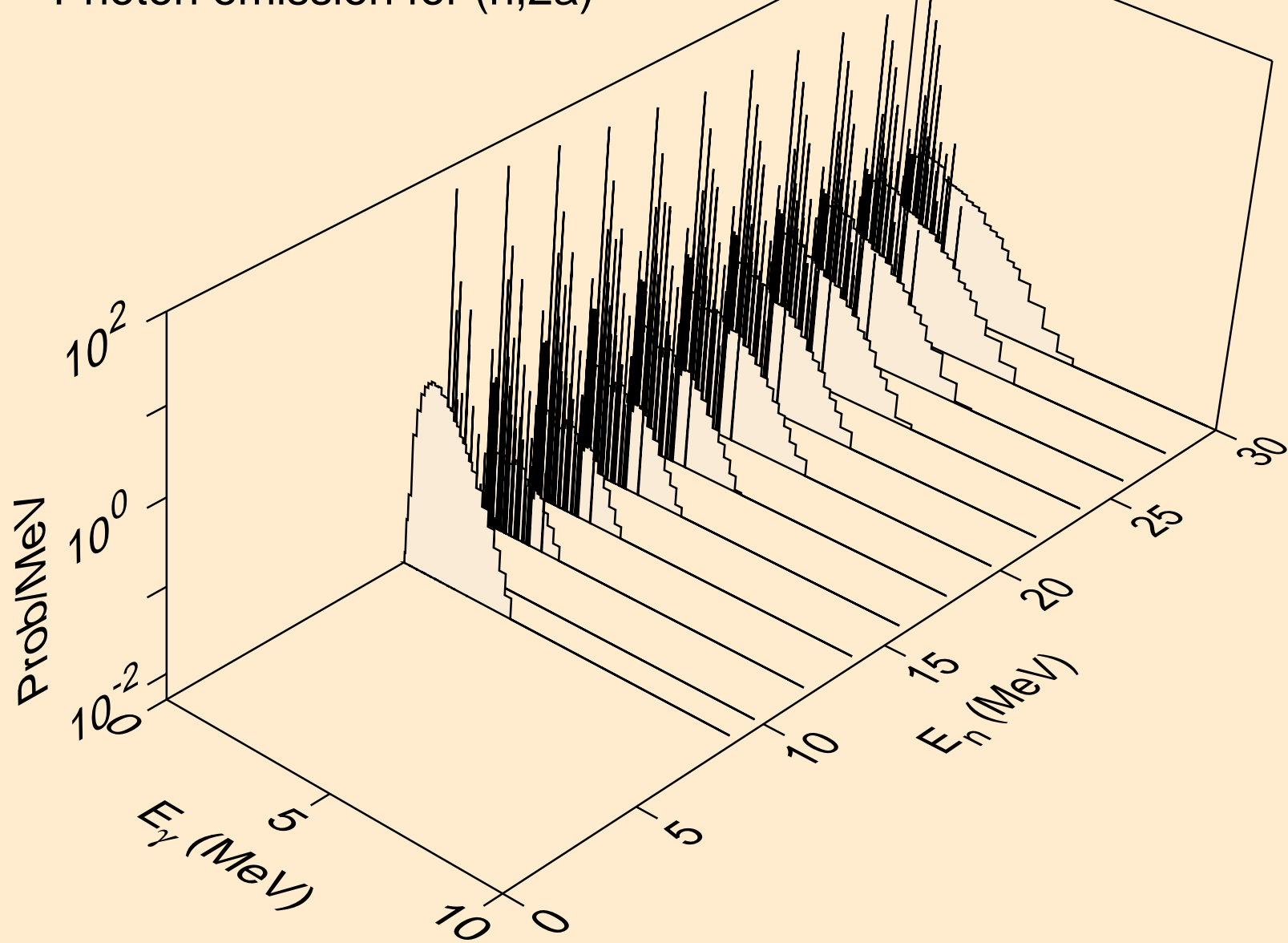


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Photon emission for (n,a)

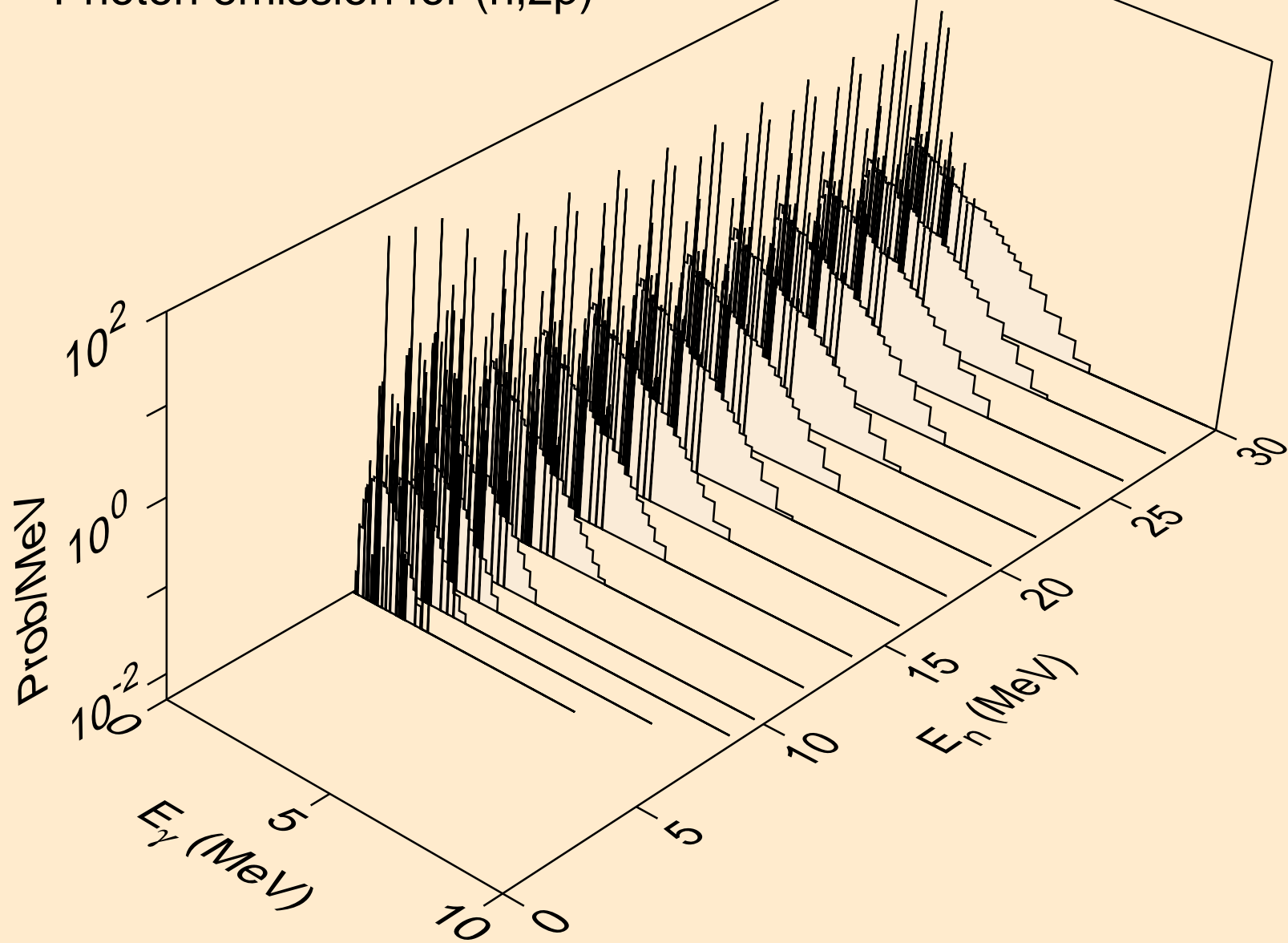




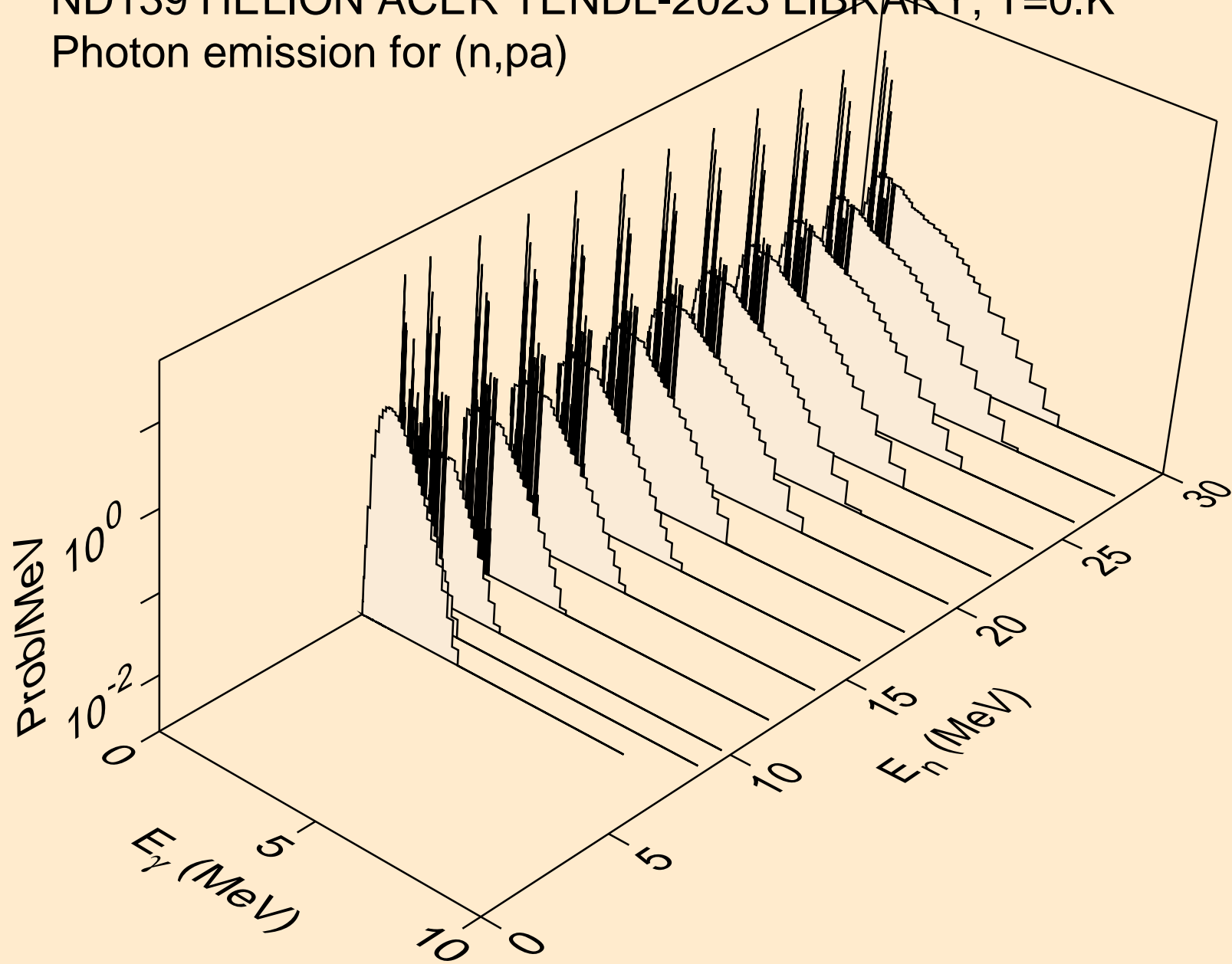
ND139 HELION ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2a)



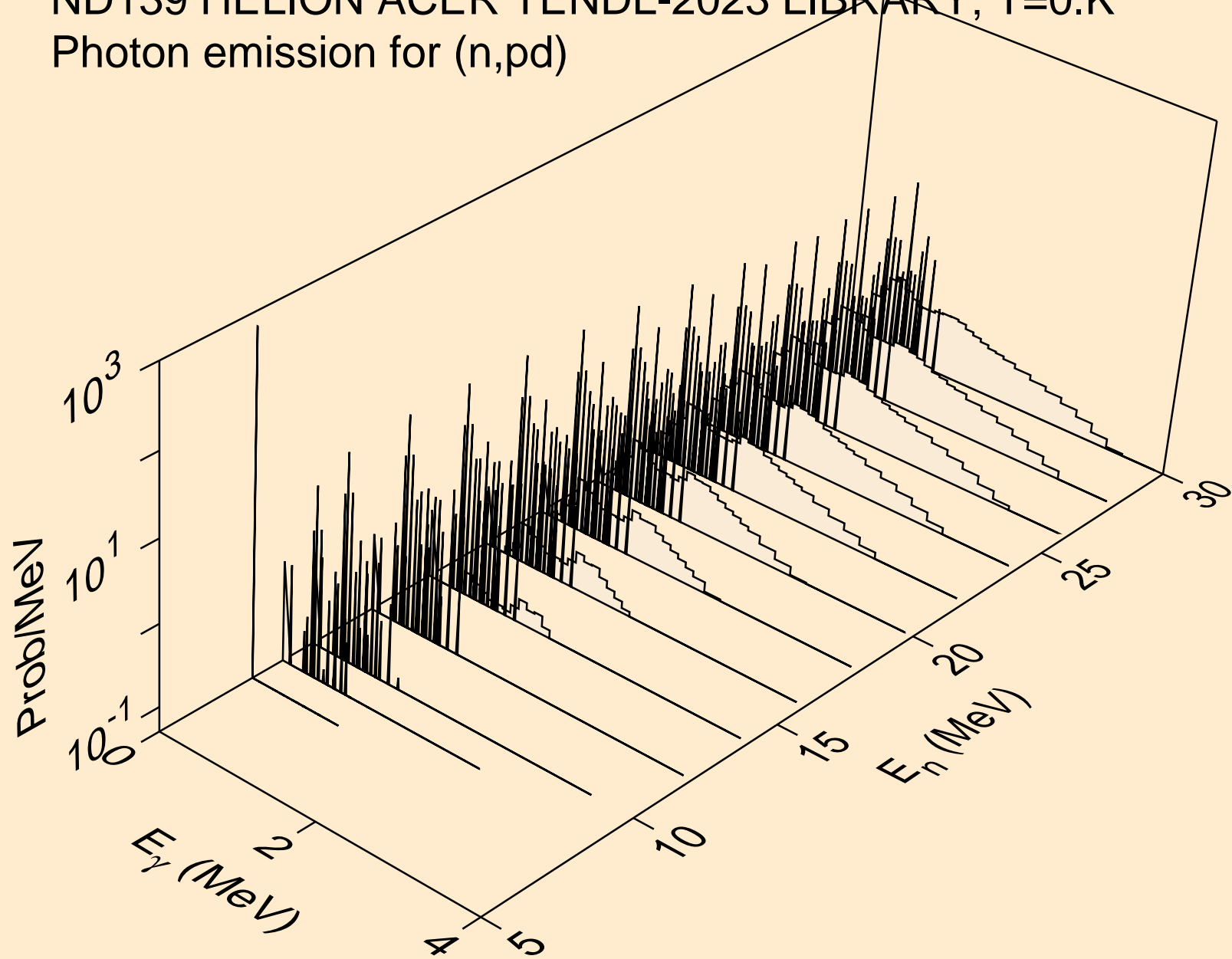
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Photon emission for (n,2p)



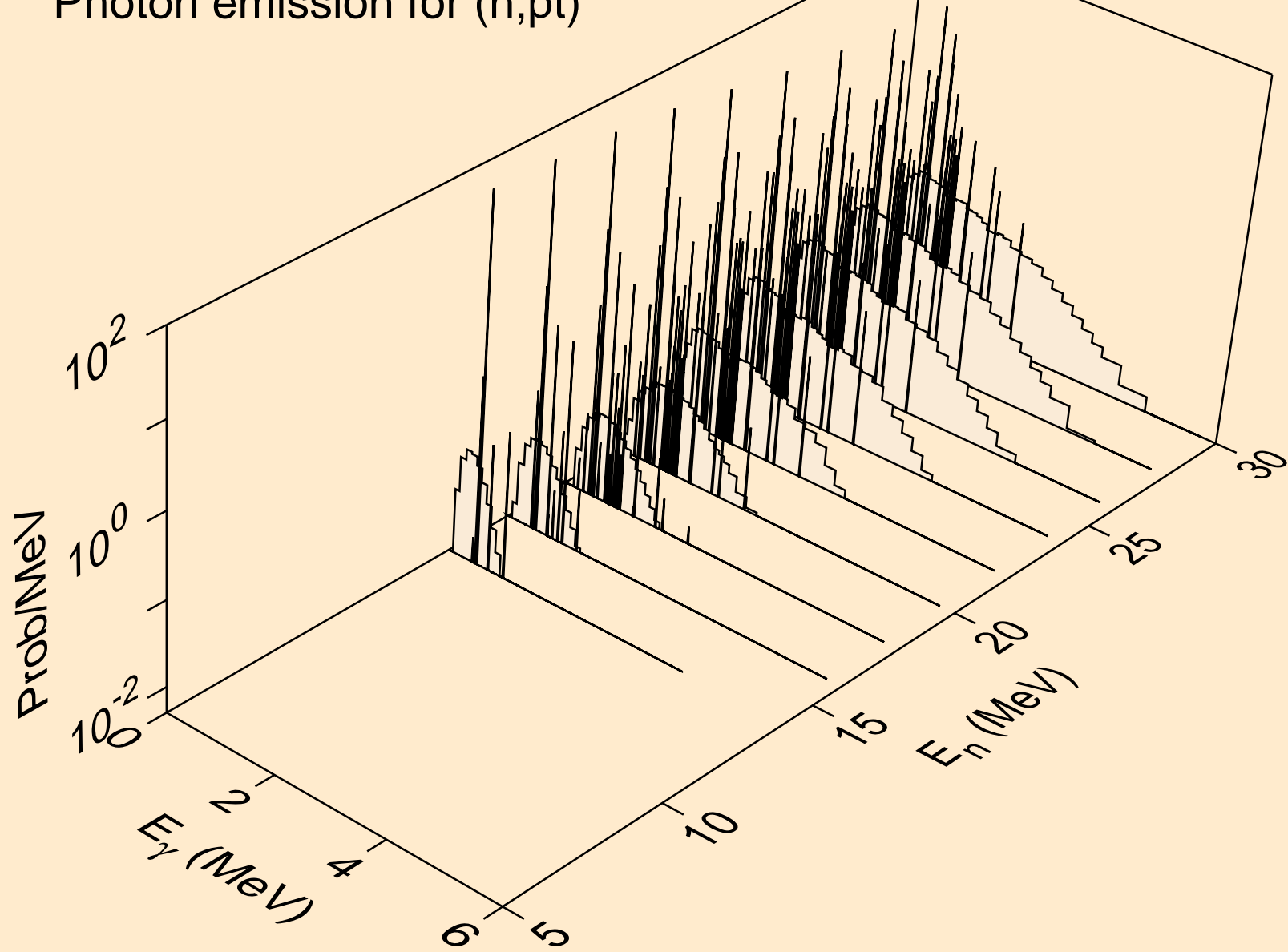
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Photon emission for (n,pa)



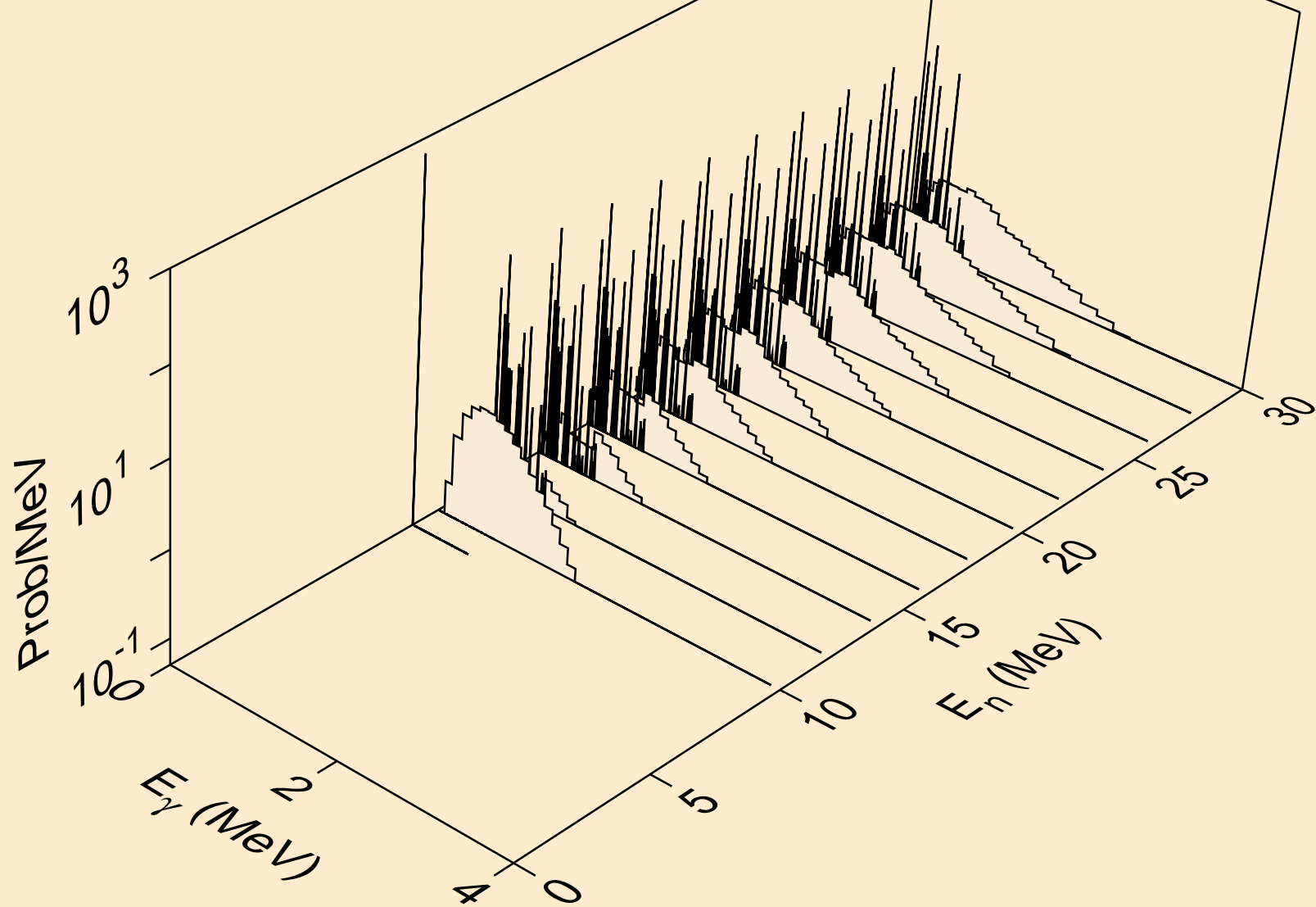
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Photon emission for (n,pd)



ND139 HELION ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,pt)

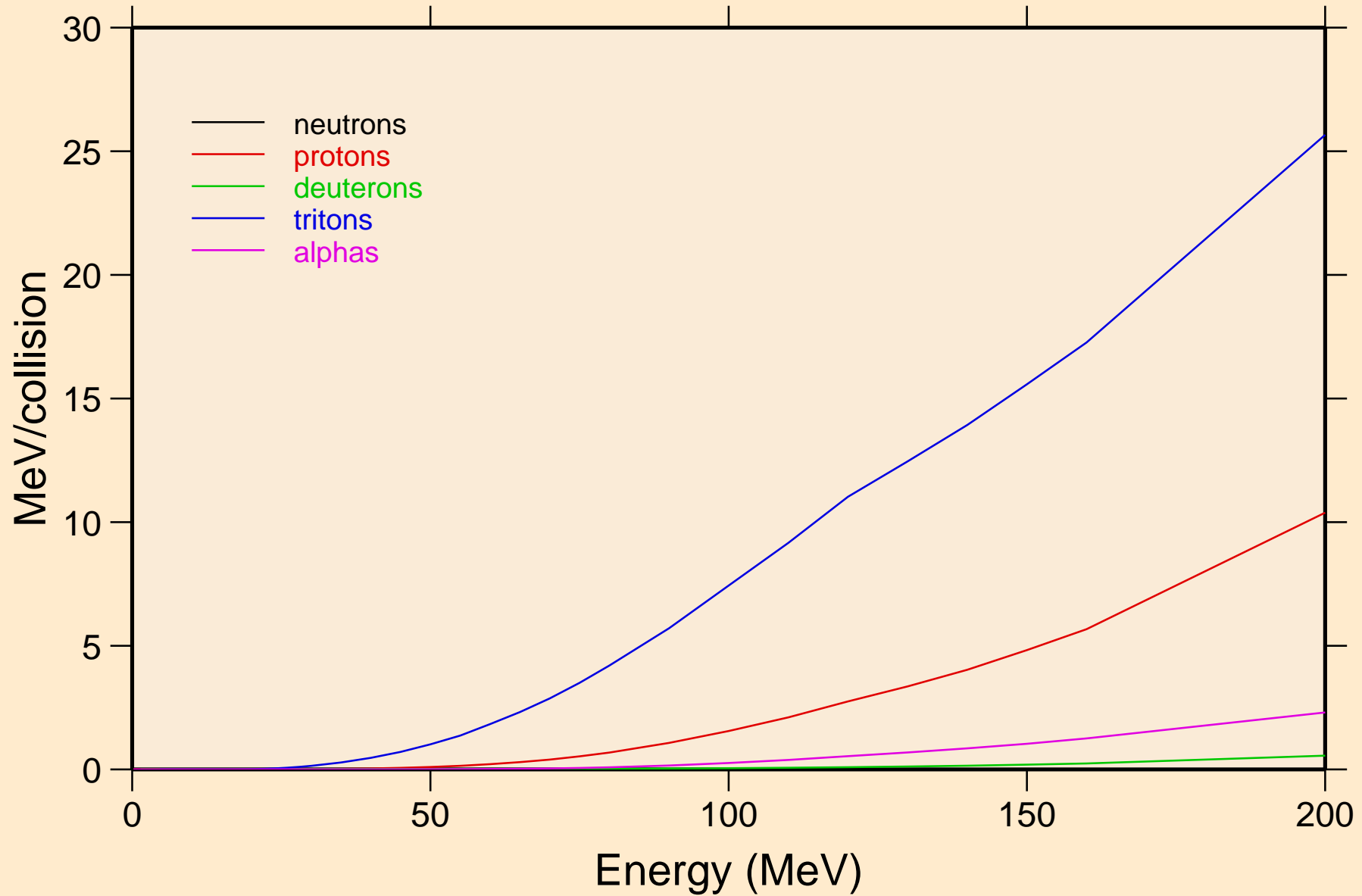


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Photon emission for (n,da)

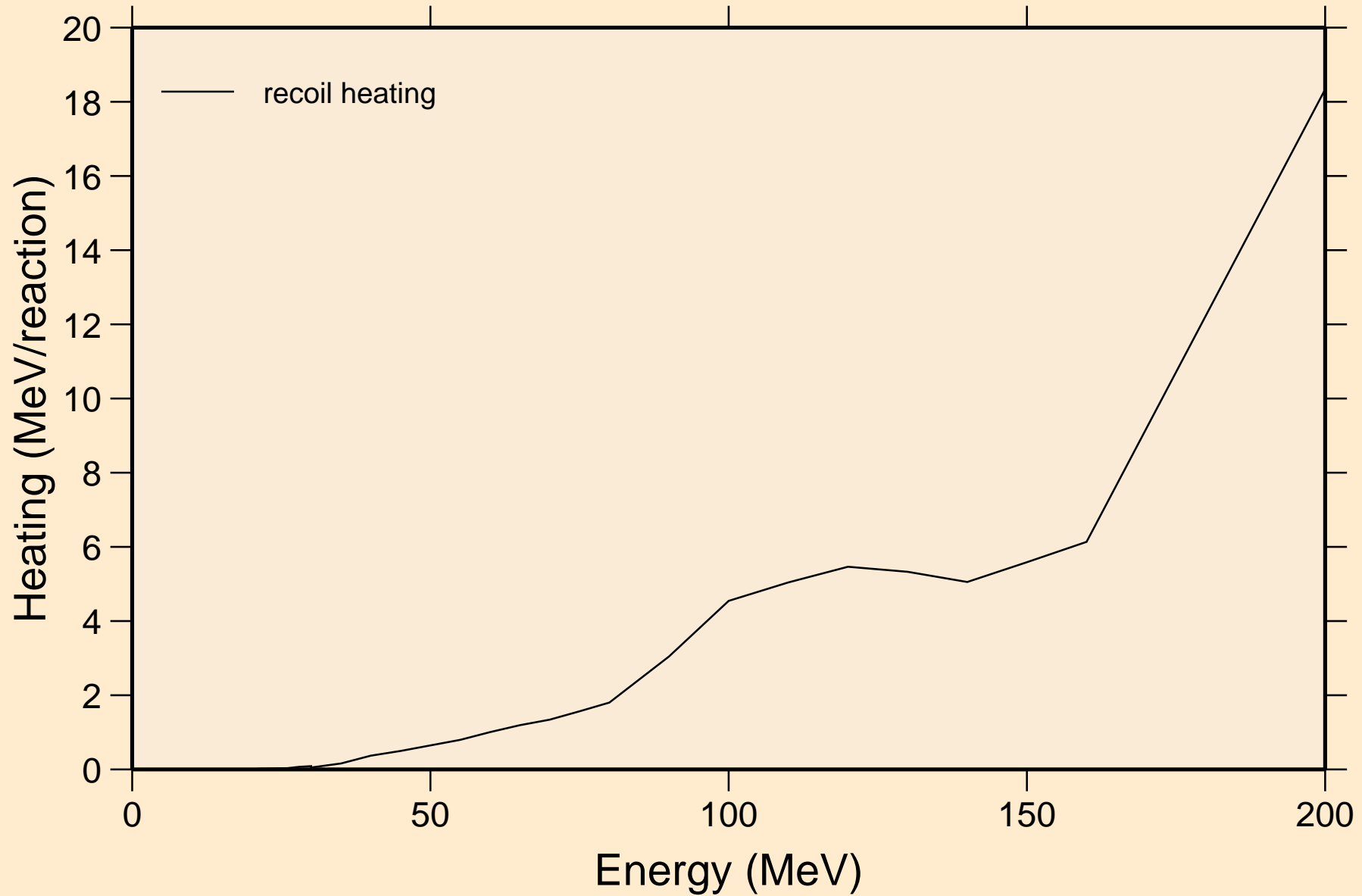


# ND139 HELION ACER TENDL-2023 LIBRARY; T=0.K

## Particle heating contributions

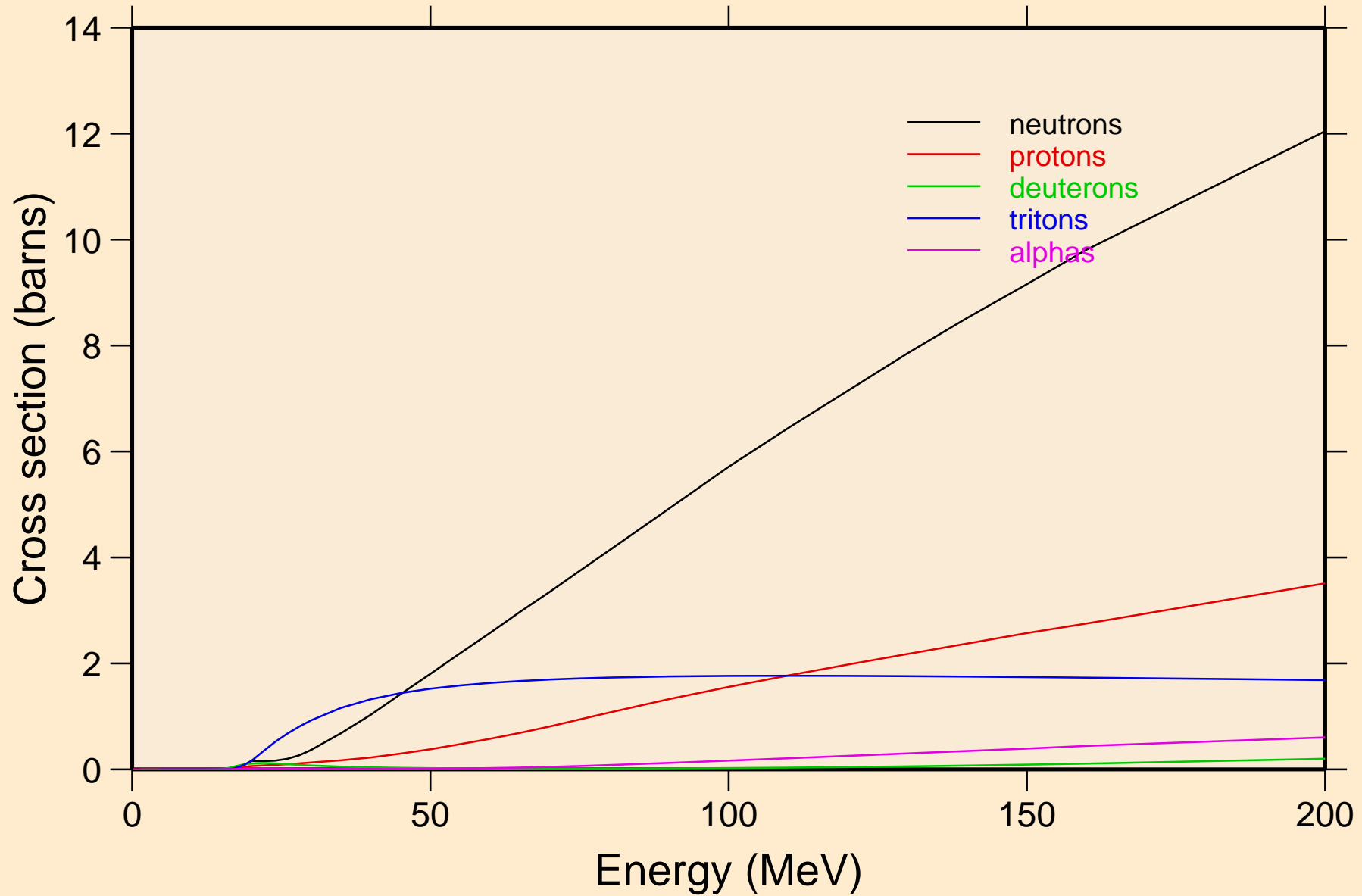


ND139 HELION ACER TENDL-2023 LIBRARY; T=0.K  
Recoil Heating

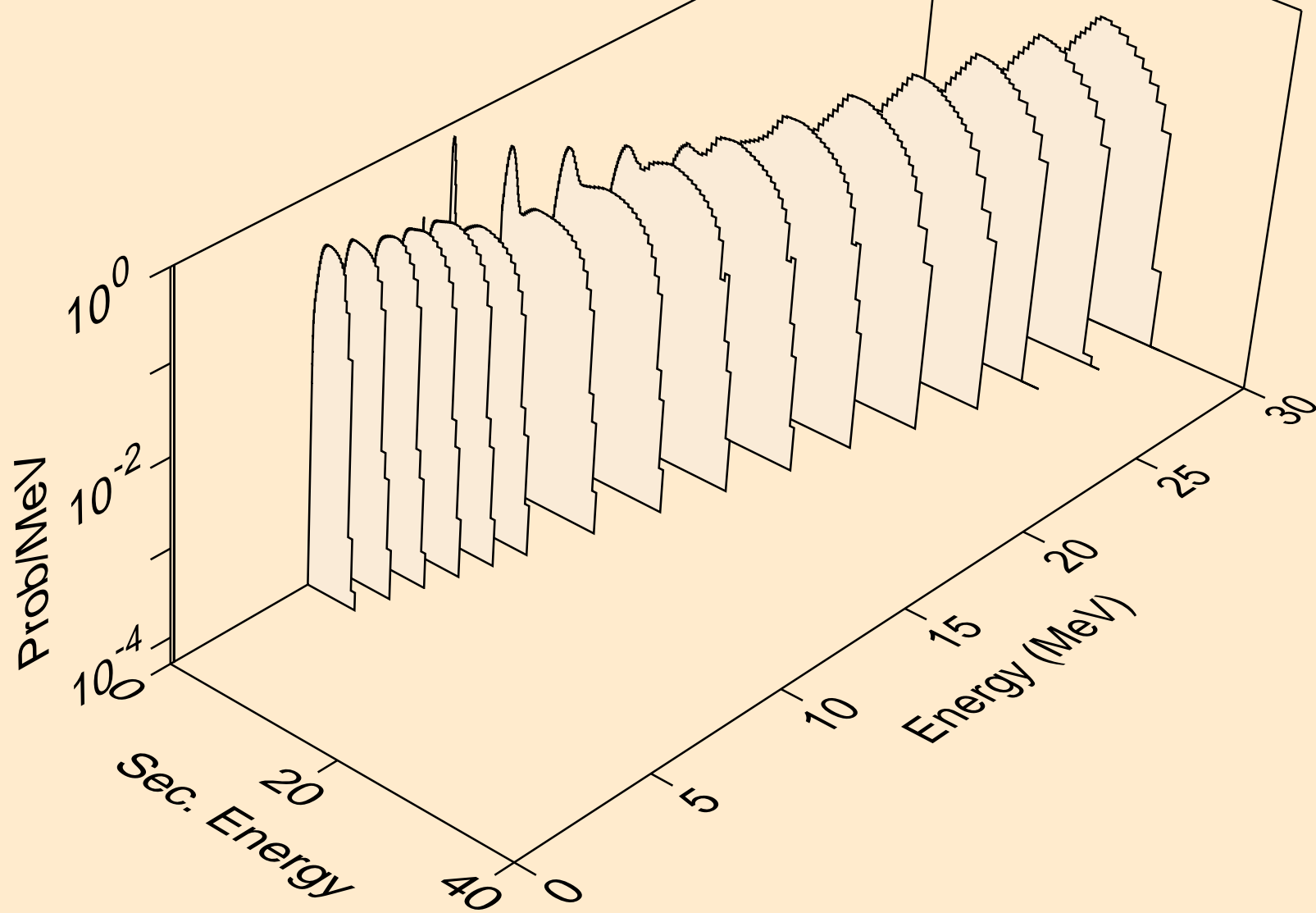




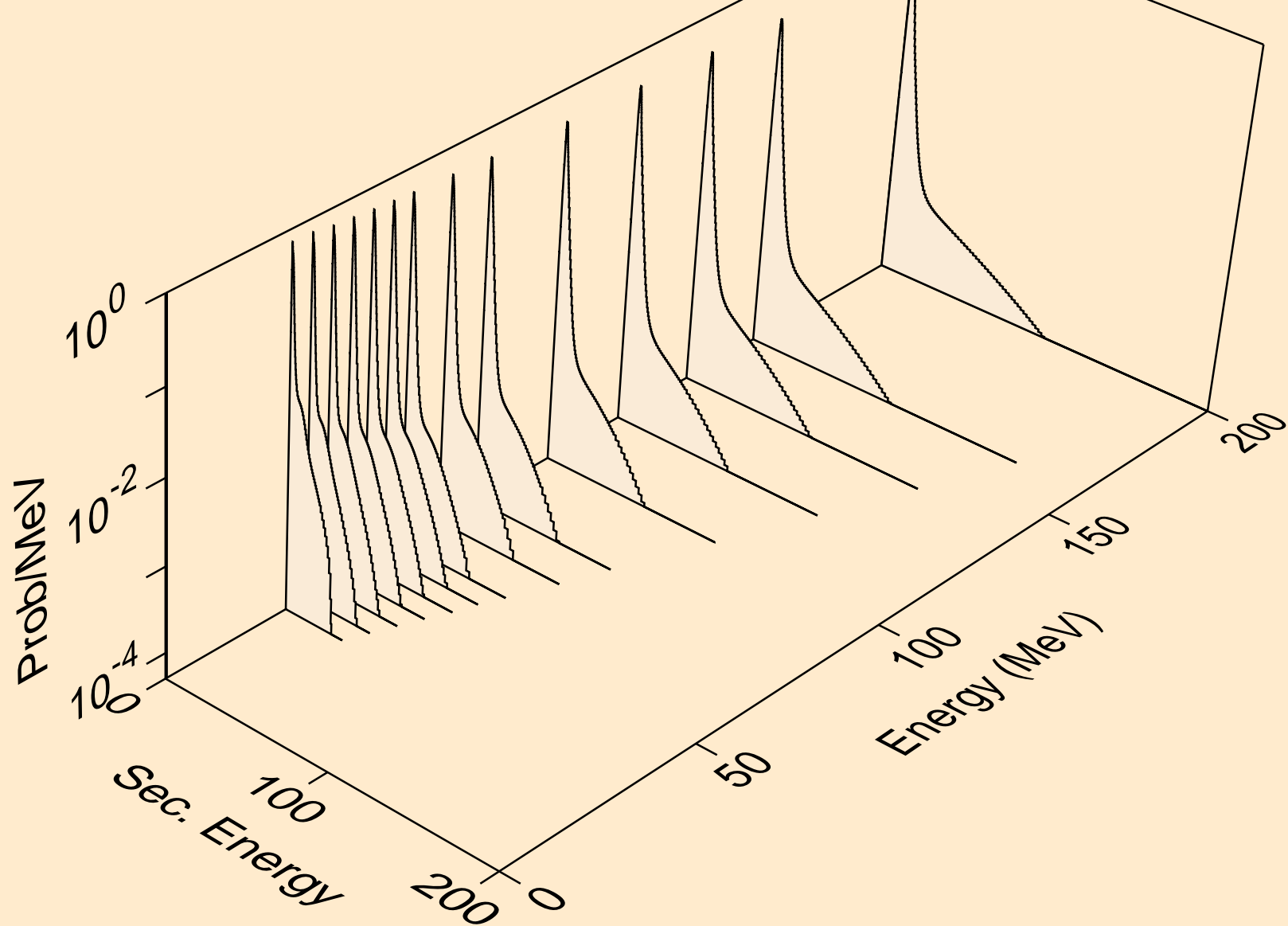
ND139 HELION ACER TENDL-2023 LIBRARY; T=0.K  
Particle production cross sections



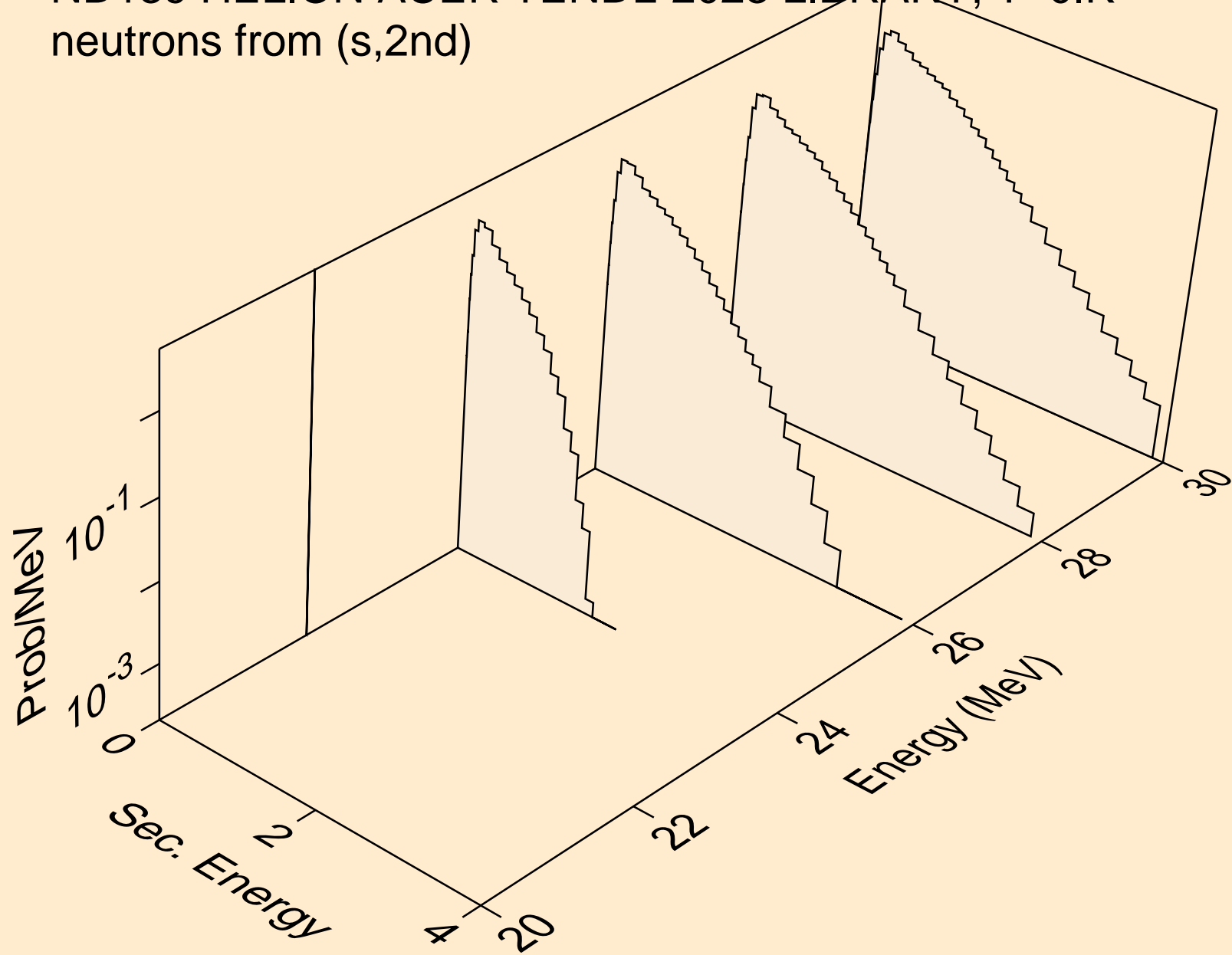
ND139 HELION ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (s,n)



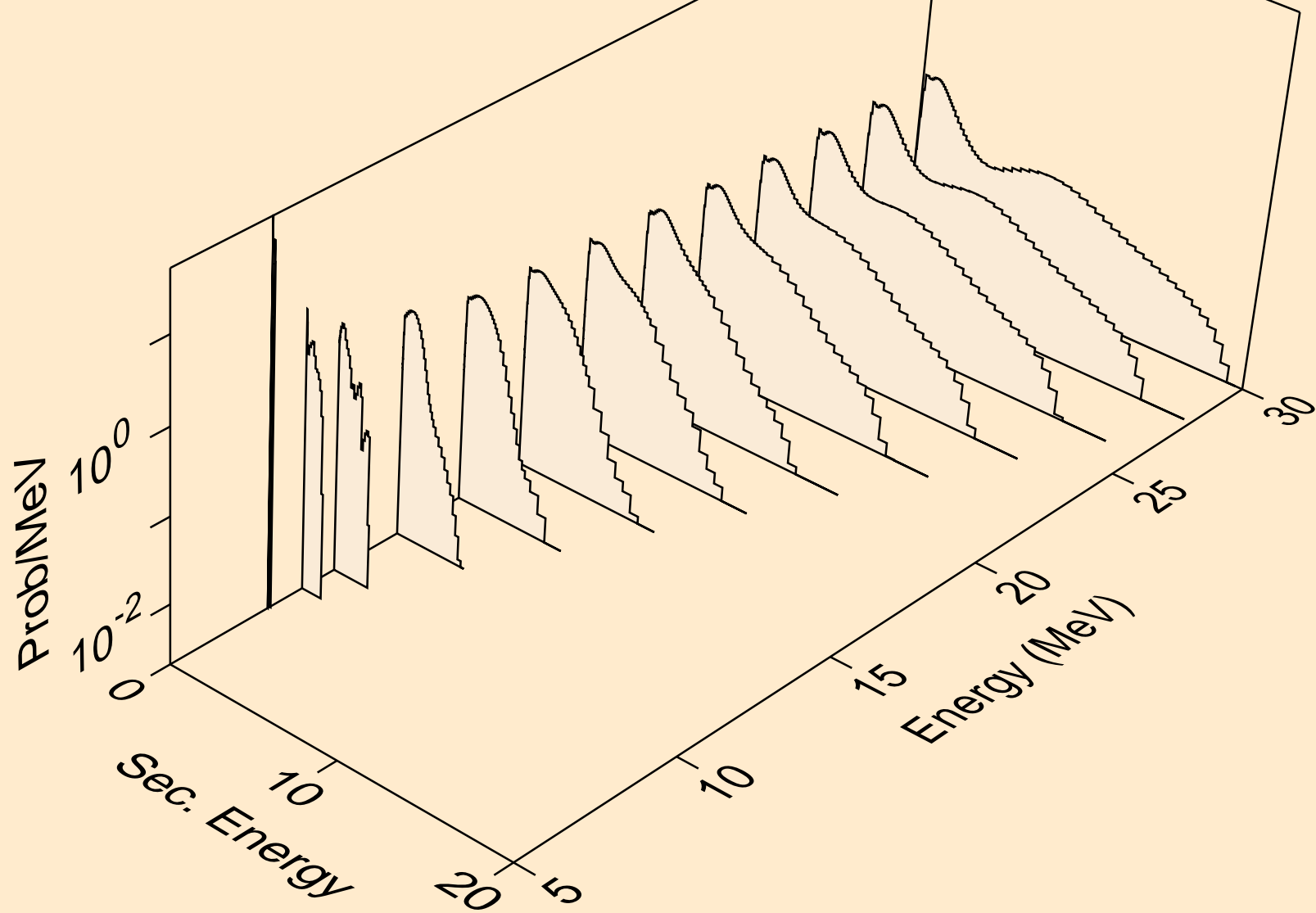
ND139 HELION ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (s,x)



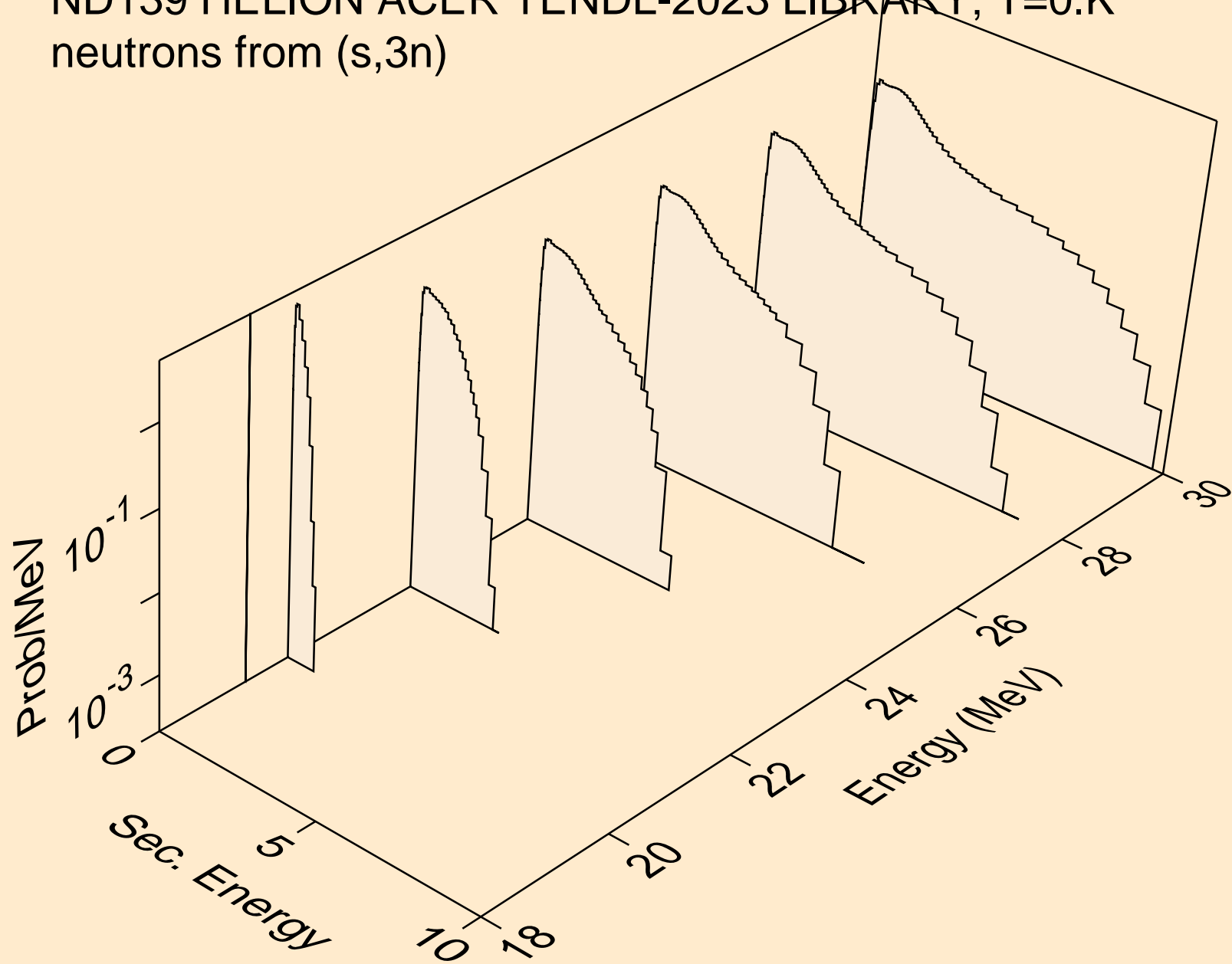
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neutrons from (s,2nd)



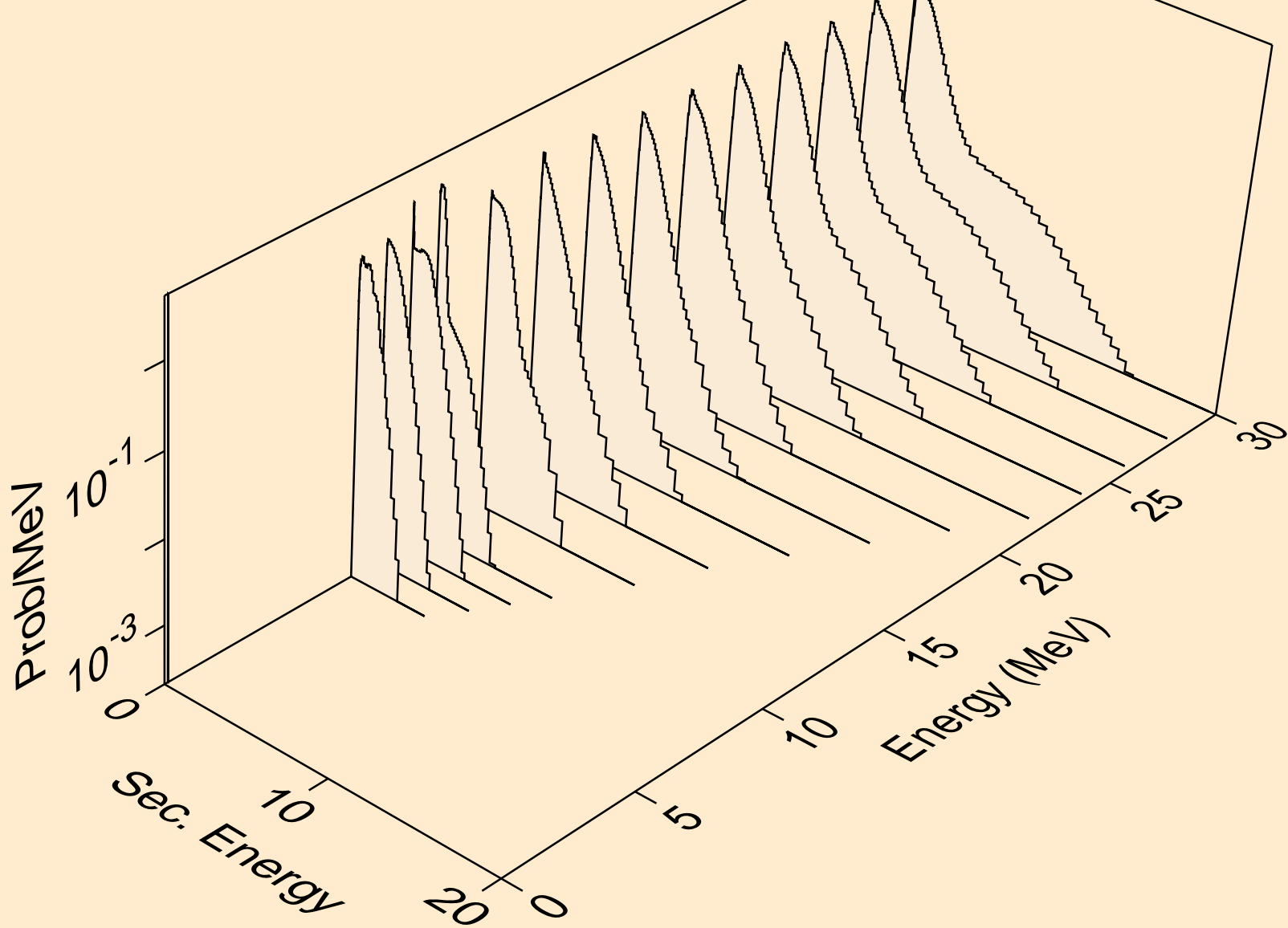
ND139 HELION ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (s,2n)



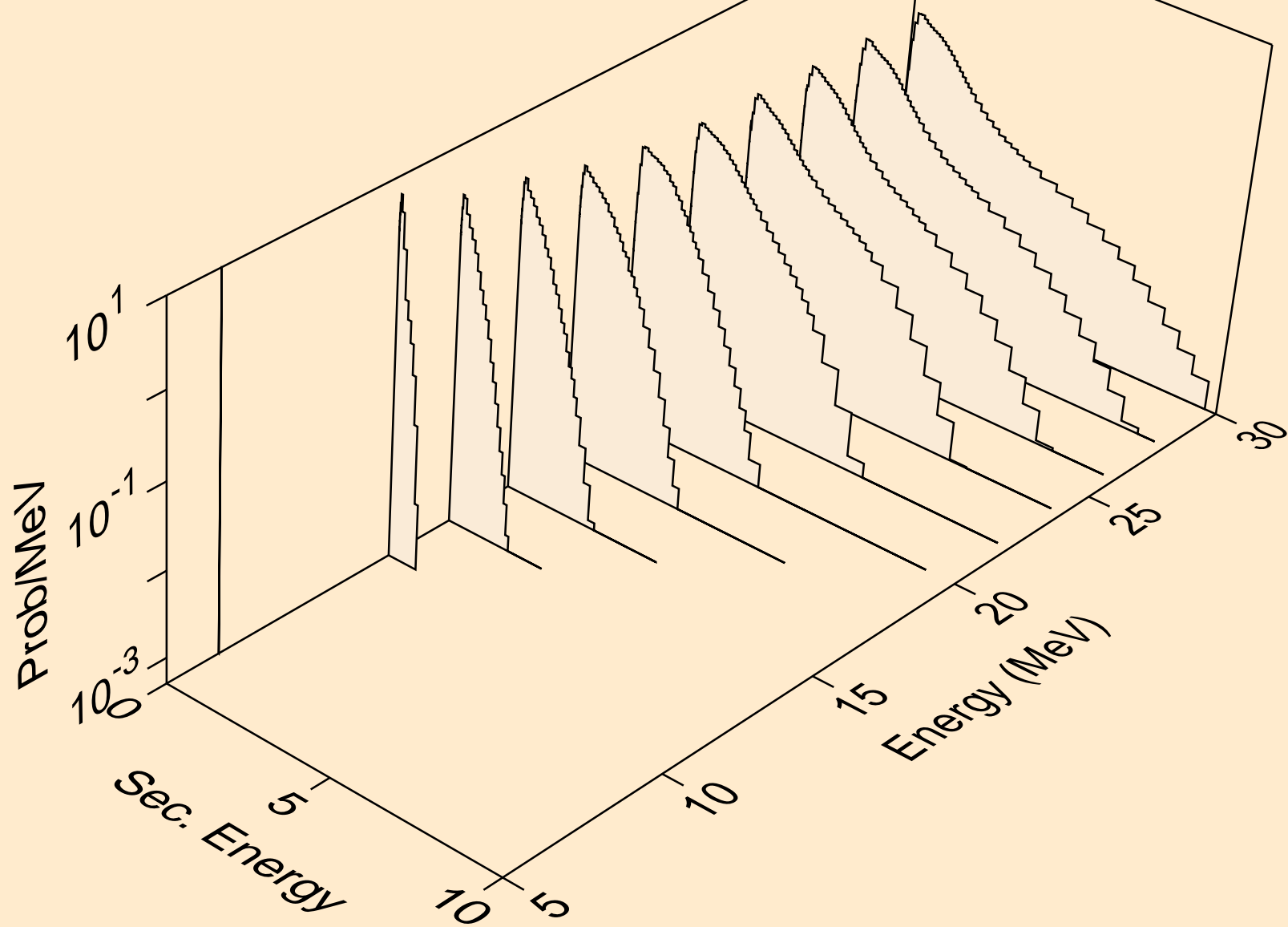
ND139 HELION ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (s,3n)



ND139 HELION ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (s,n\*)a

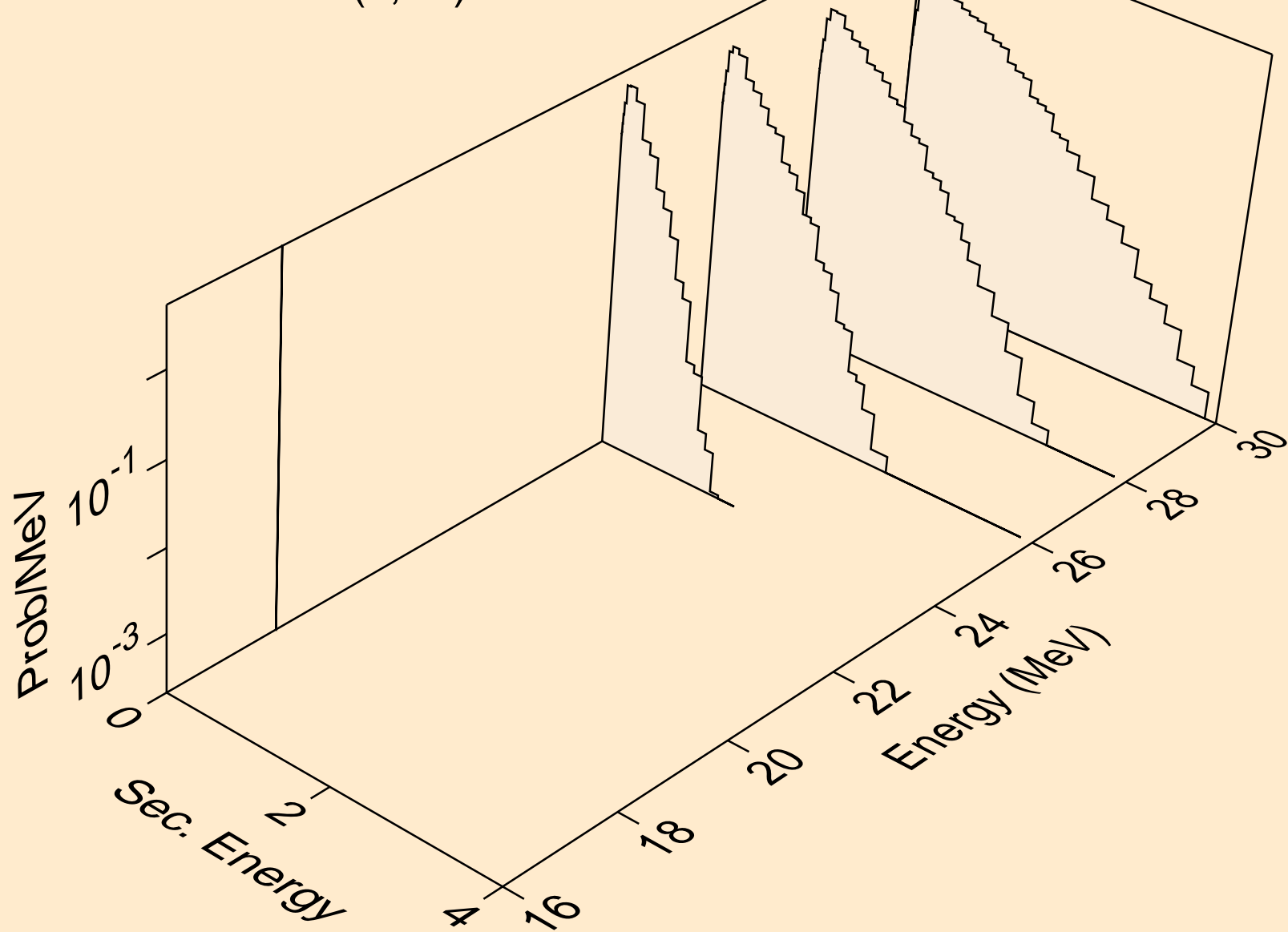


ND139 HELION ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (s,2n)a

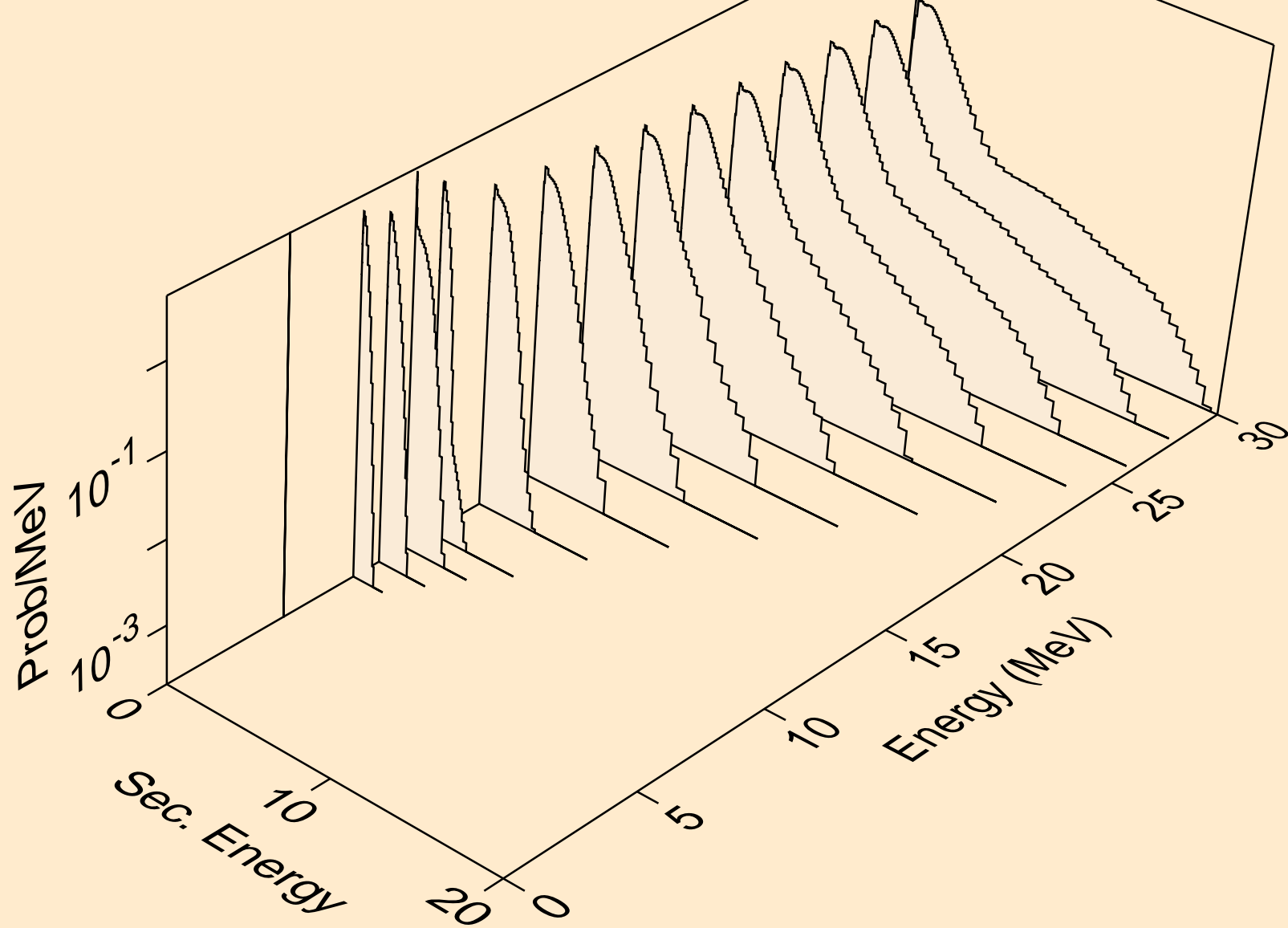




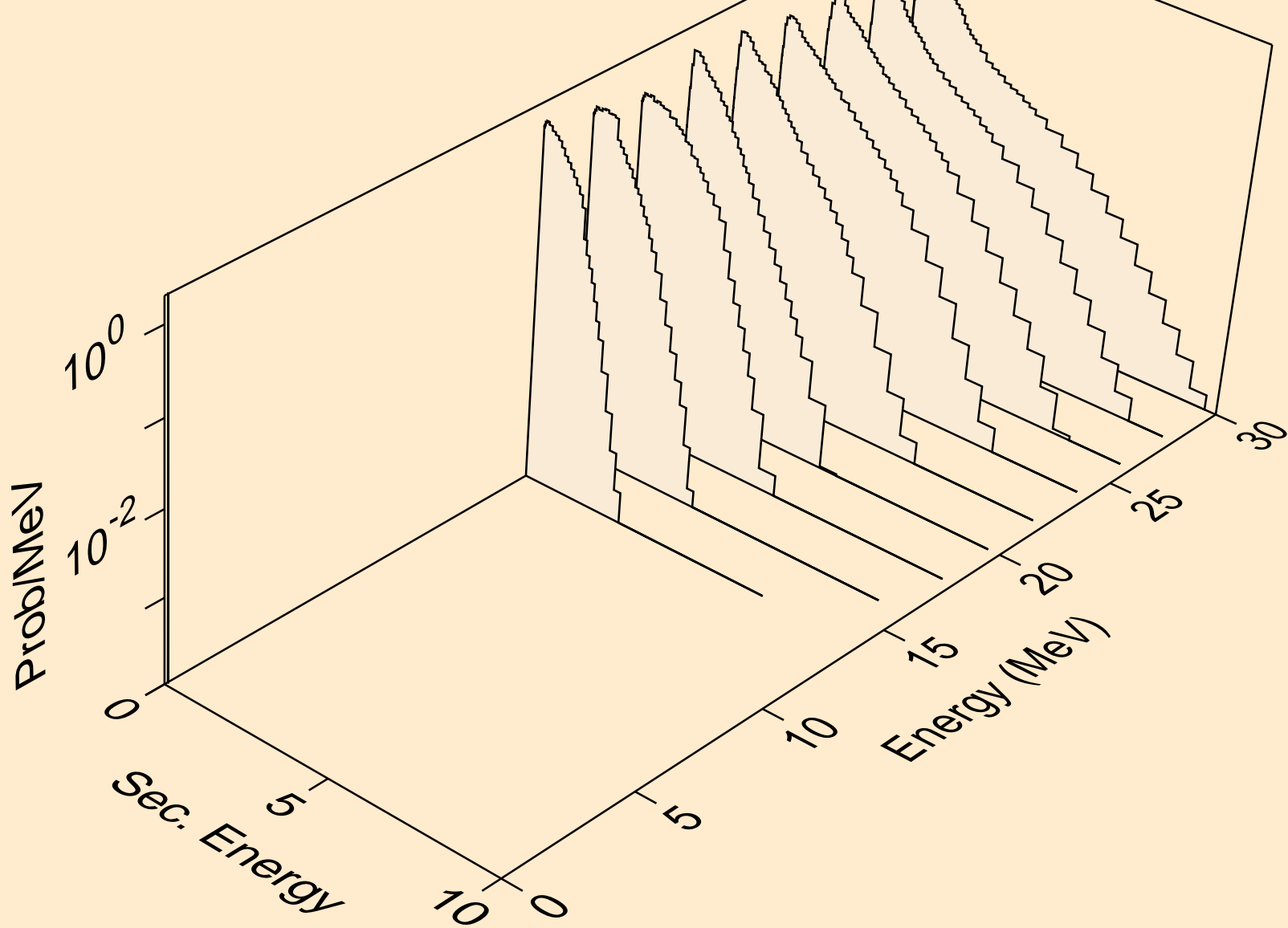
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neutrons from (s,3n)a



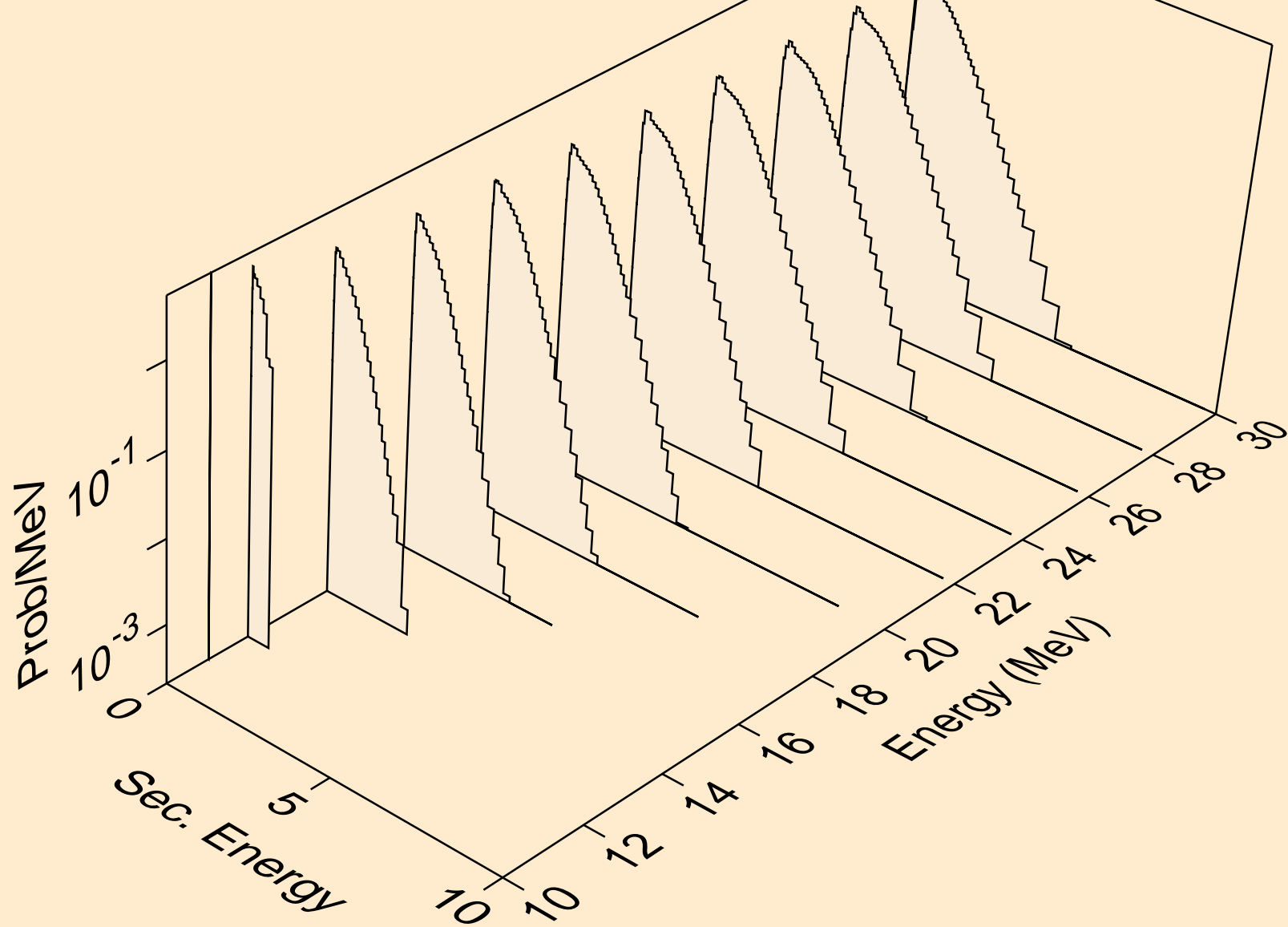
ND139 HELION ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (s,n\*)p



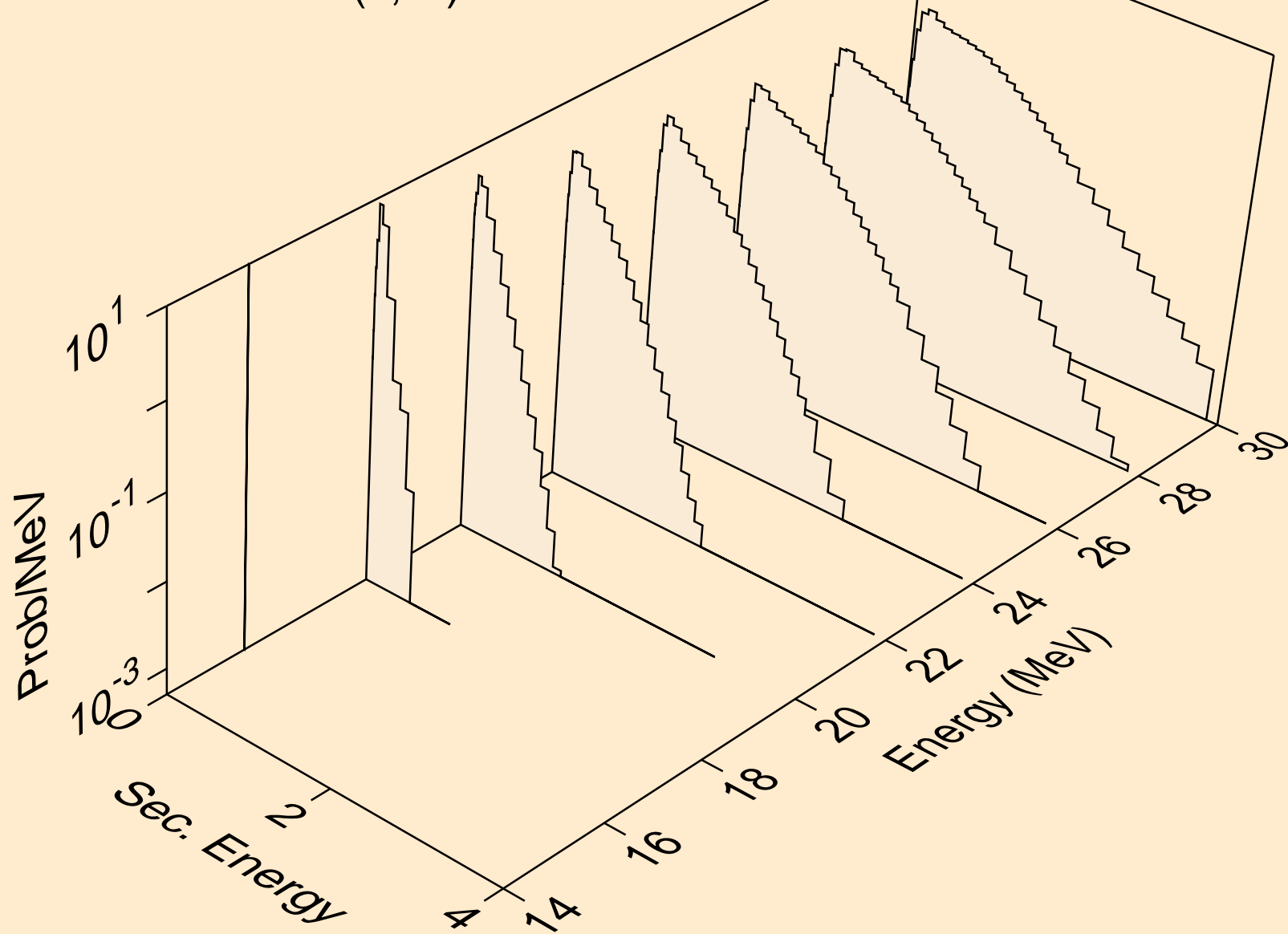
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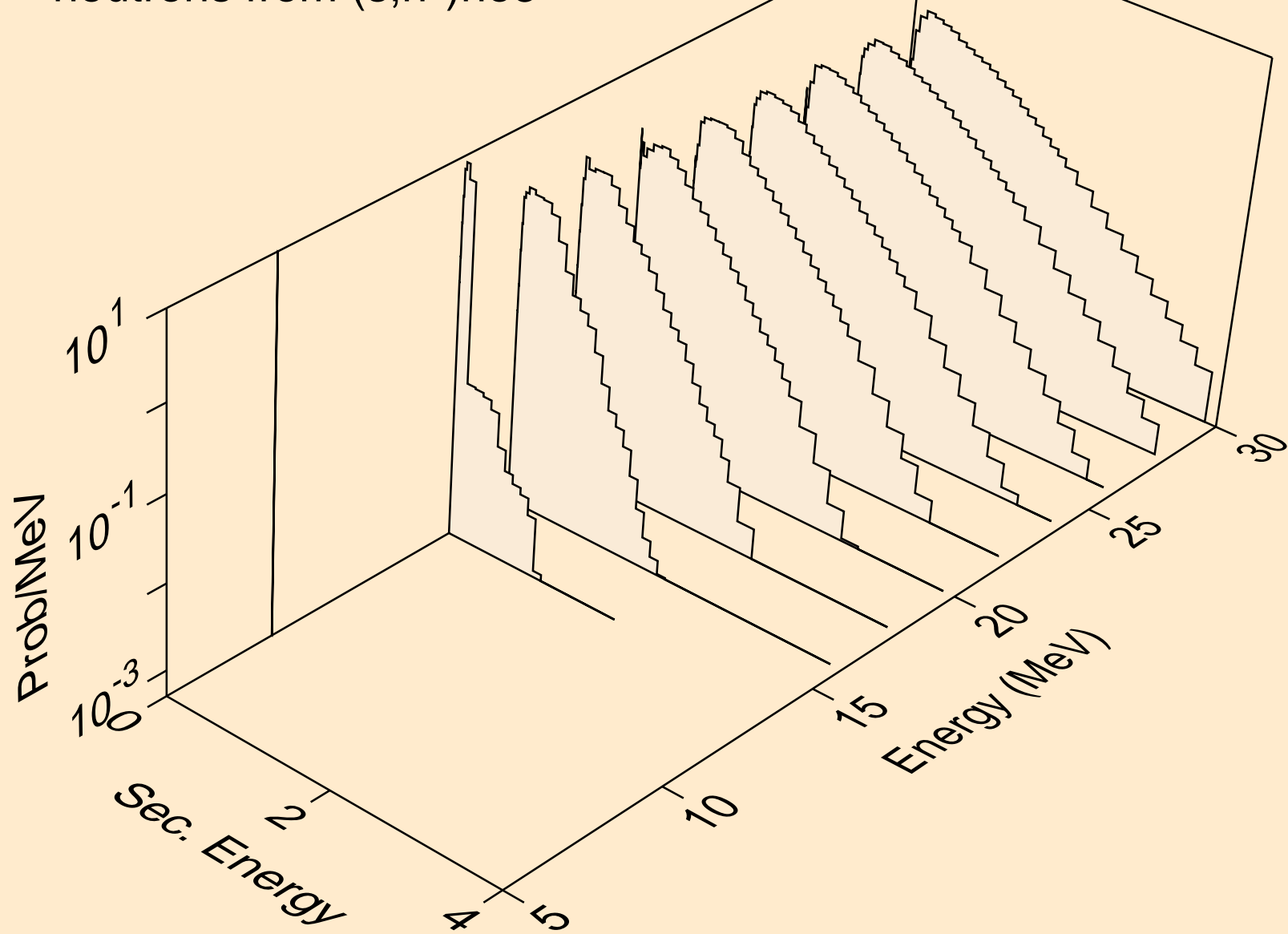
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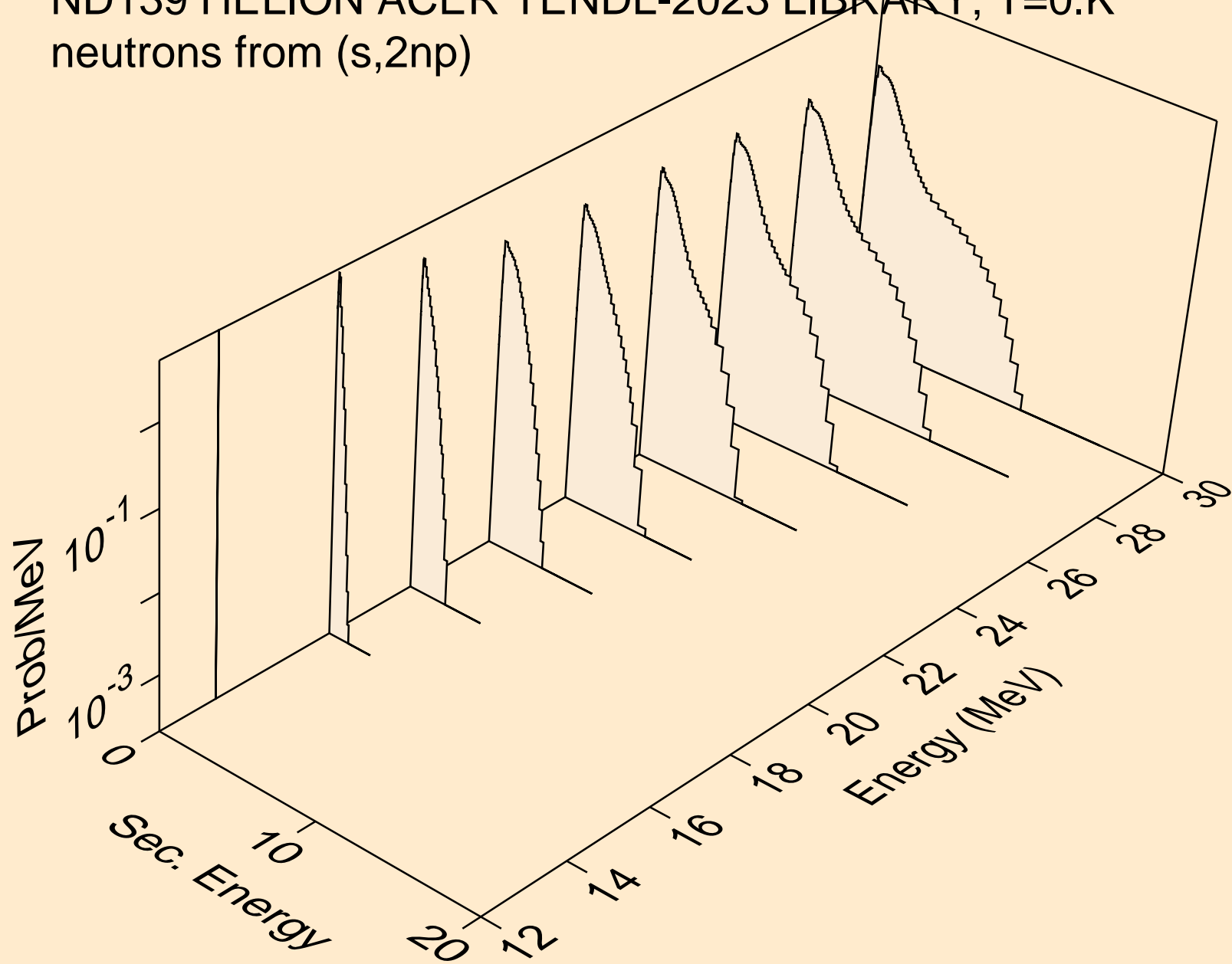
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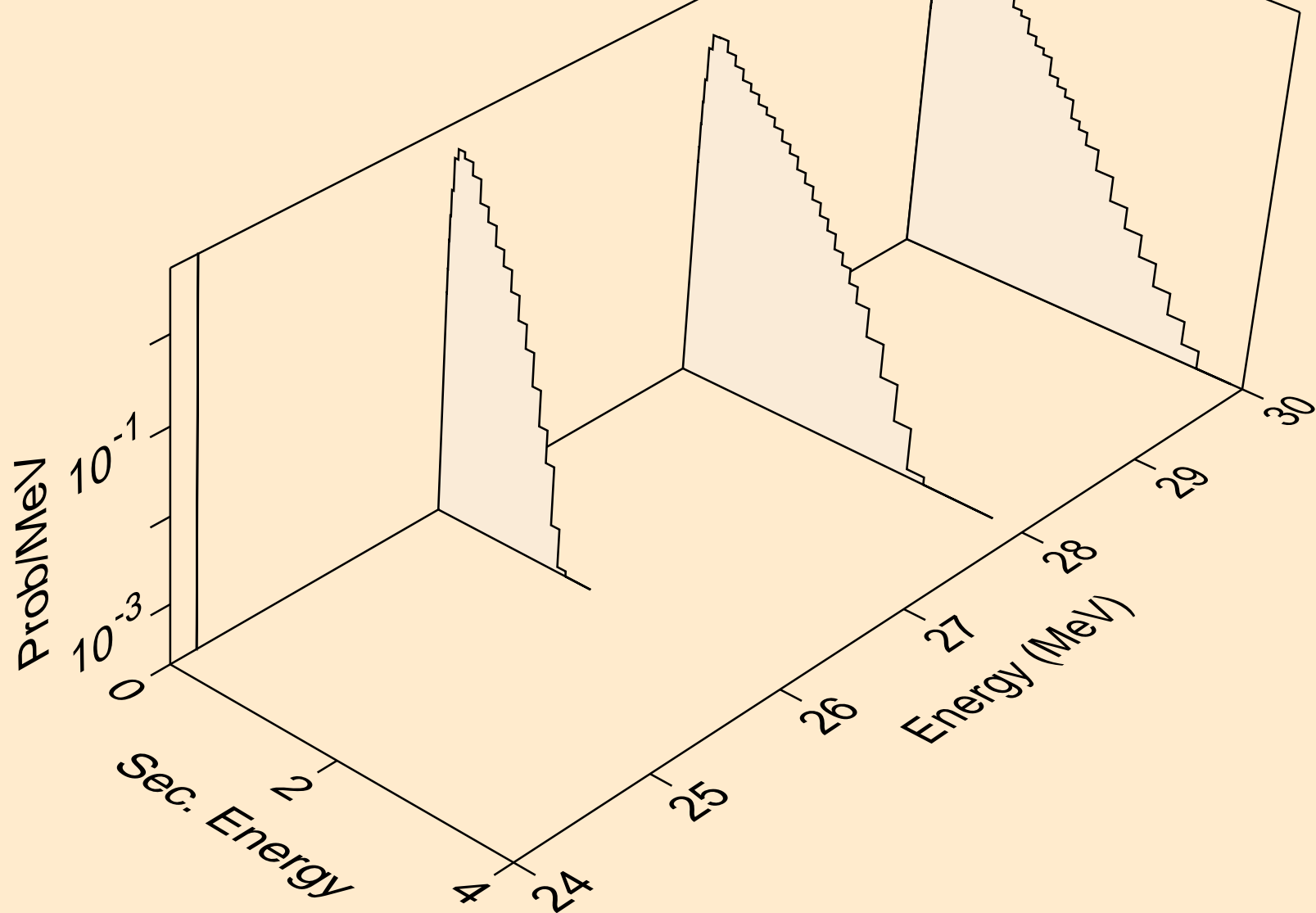
ND139 HELION ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (s,n\*)he3



ND139 HELION ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (s,2np)

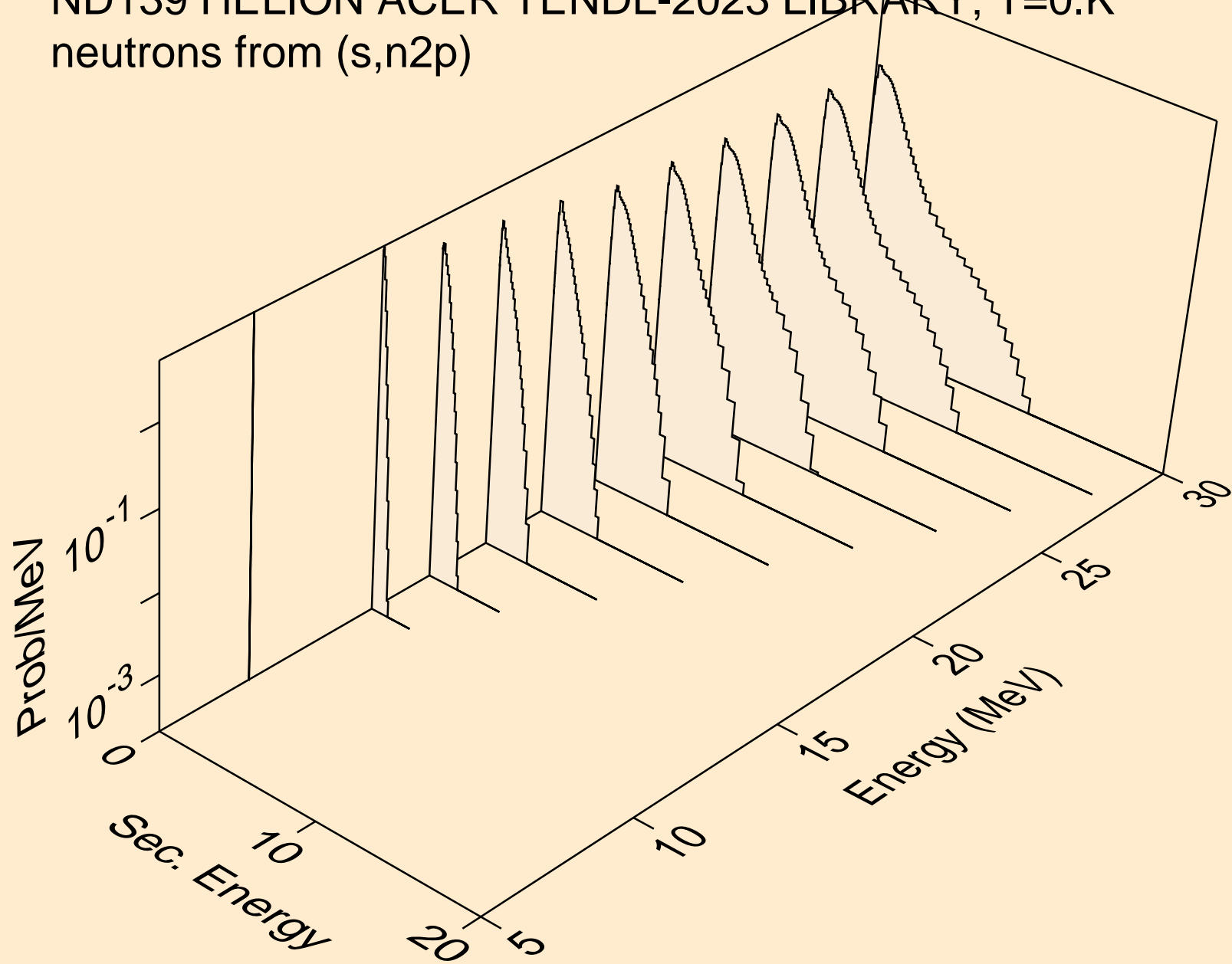


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neutrons from (s,3np)

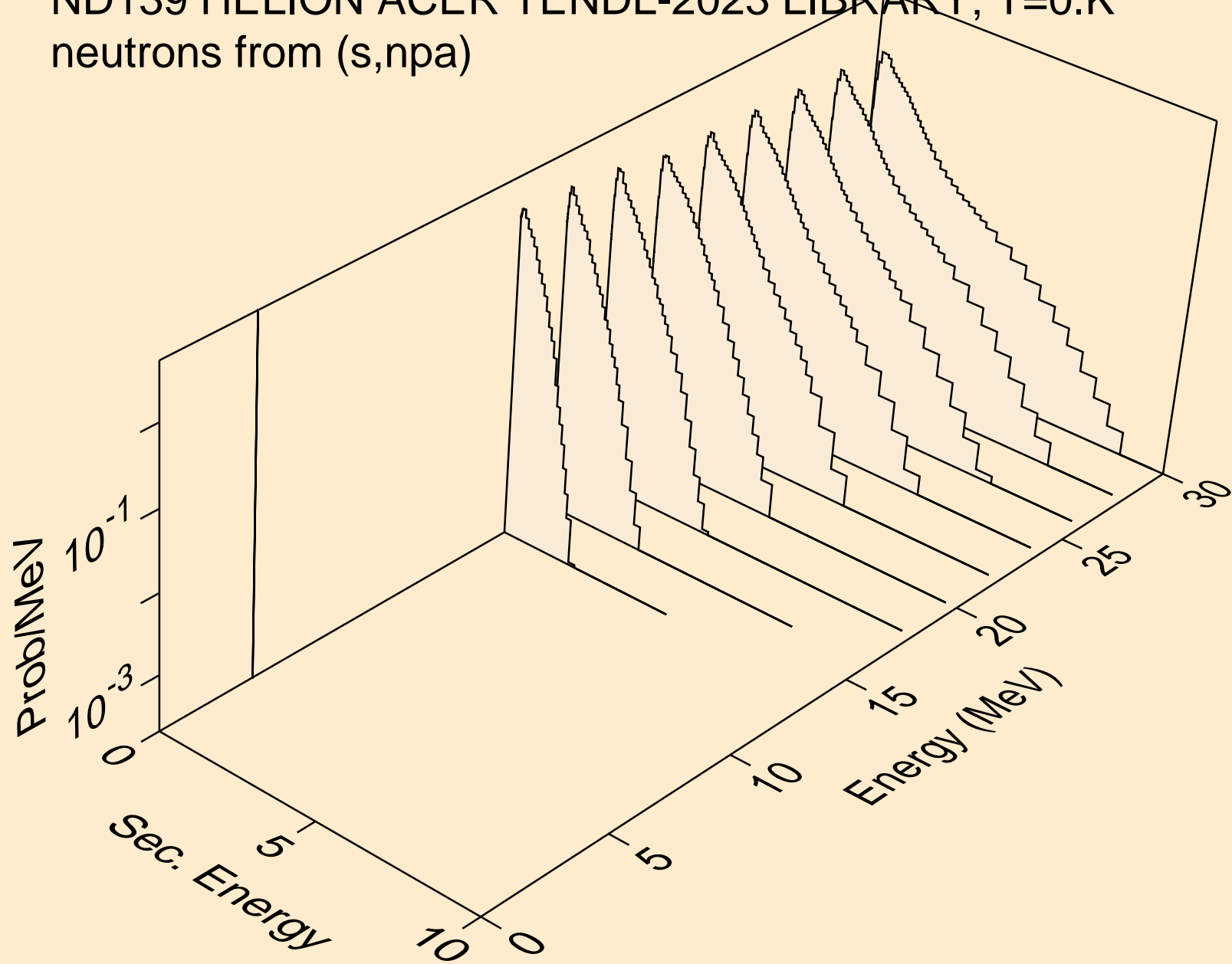




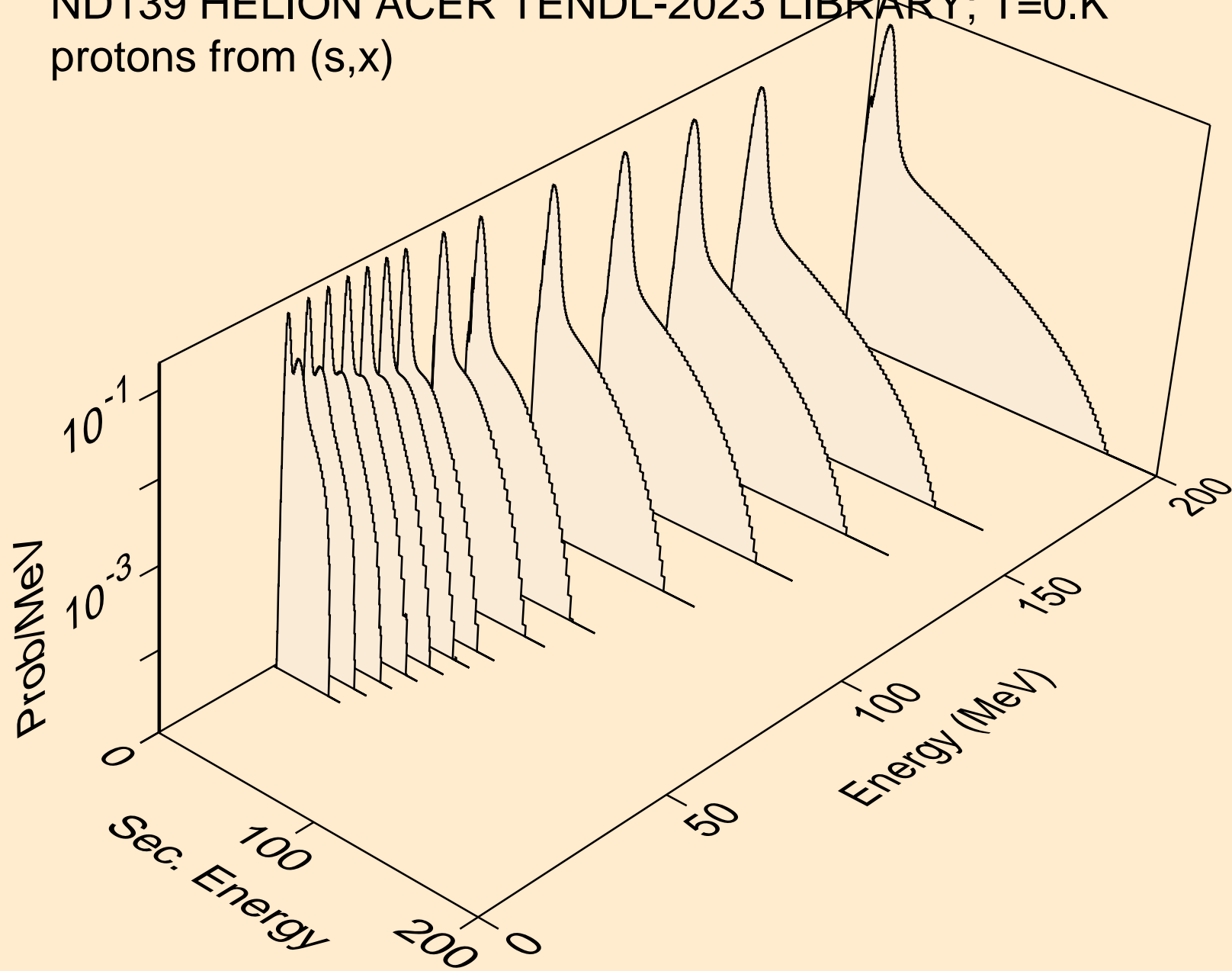
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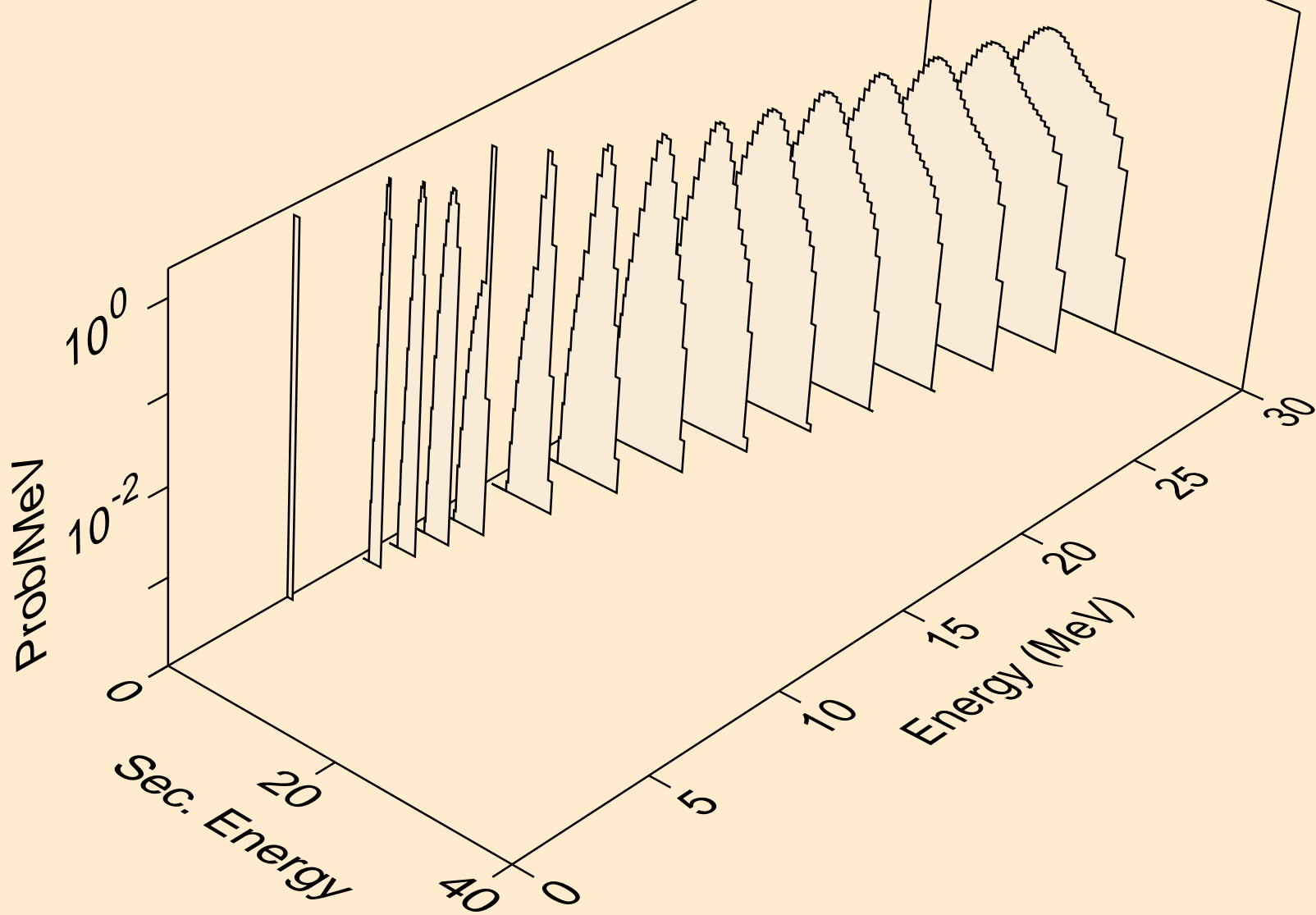
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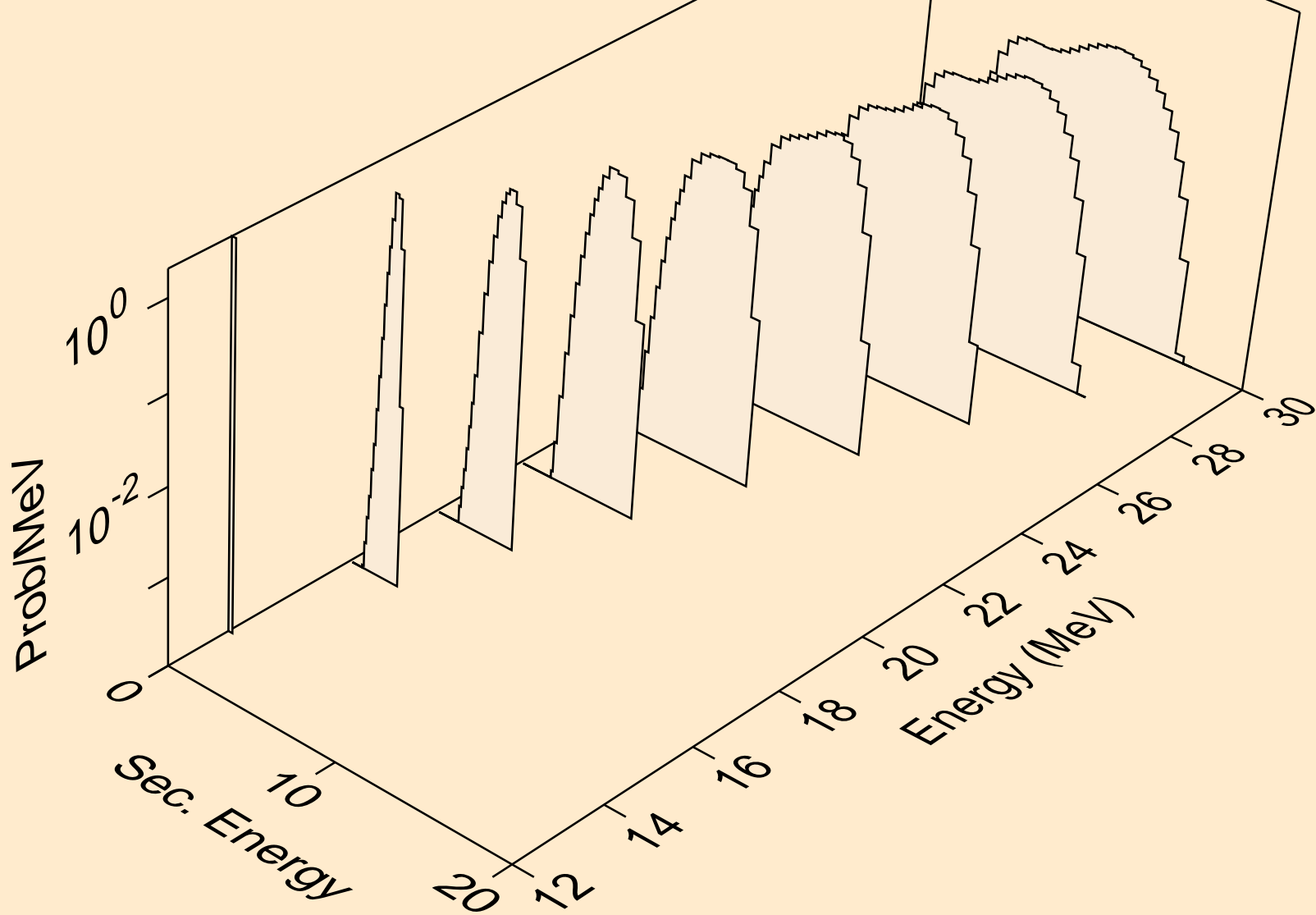
ND139 HELION ACER TENDL-2023 LIBRARY; T=0.K  
protons from (s,x)



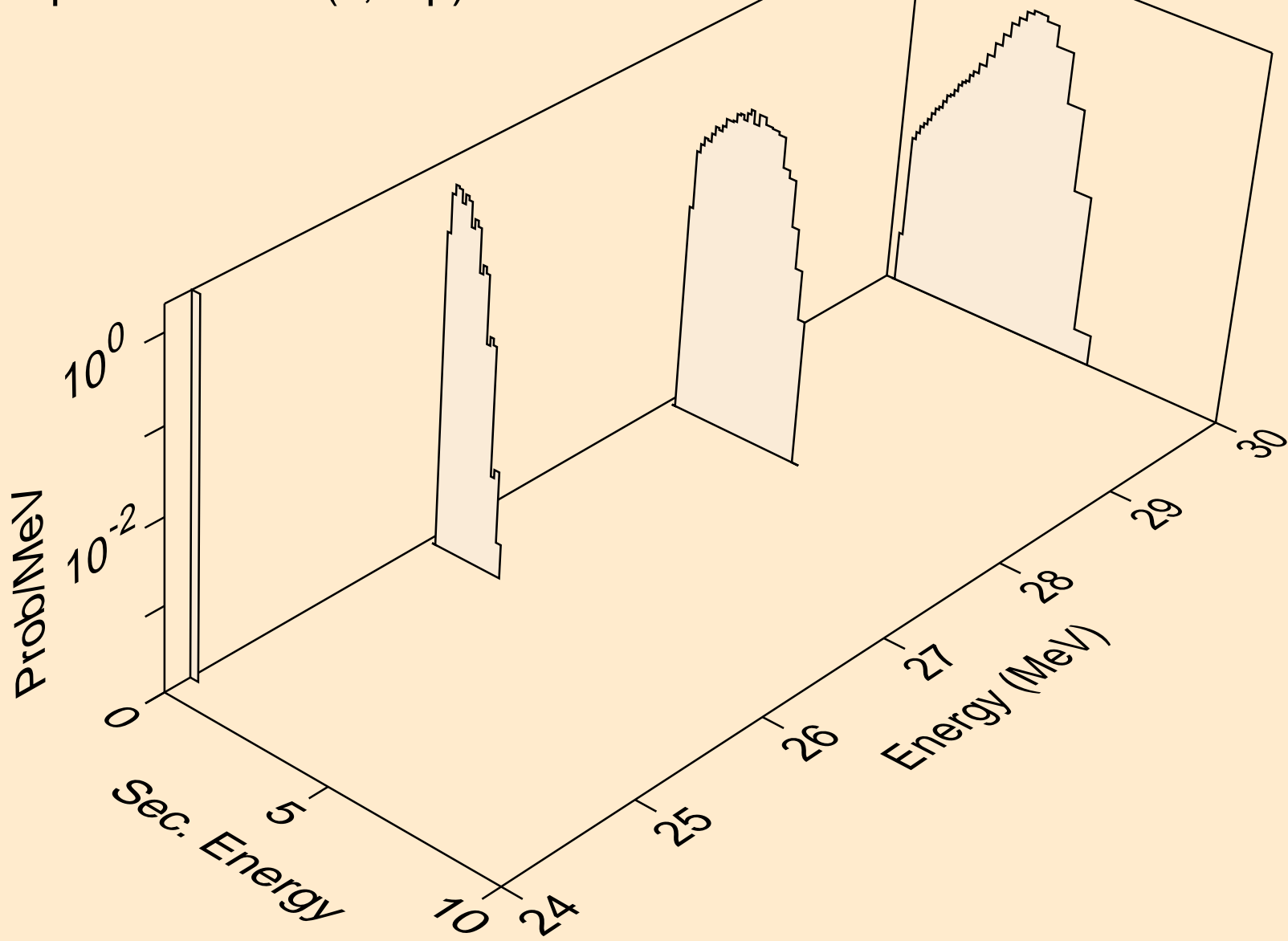
ND139 HELION ACER TENDL-2023 LIBRARY; T=0.K  
protons from (s,n\*)p



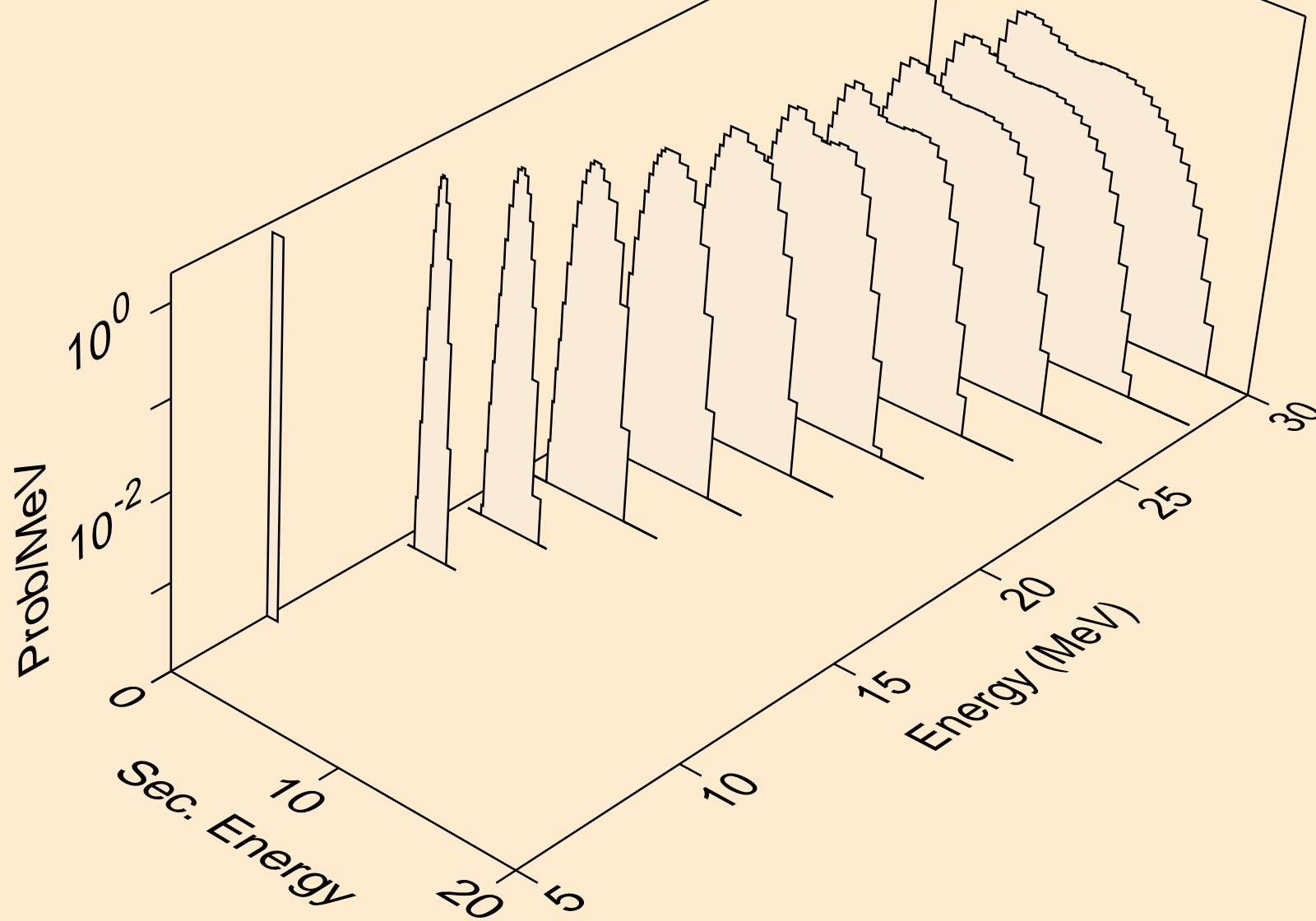
ND139 HELION ACER TENDL-2023 LIBRARY; T=0.K  
protons from (s,2np)



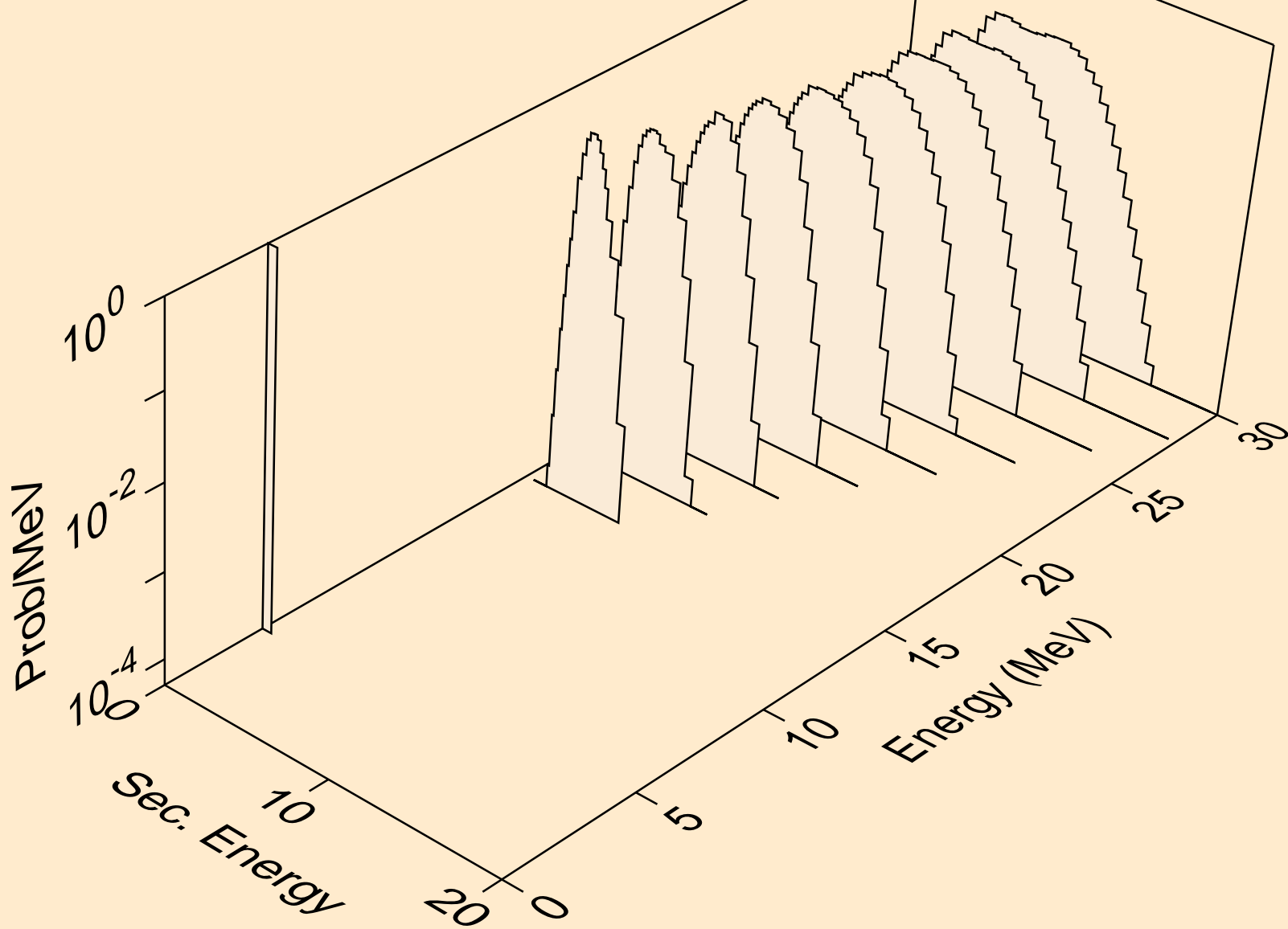
ND139 HELION ACER TENDL-2023 LIBRARY; T=0.K  
protons from (s,3np)



ND139 HELION ACER TENDL-2023 LIBRARY; T=0.K  
protons from (s,n2p)

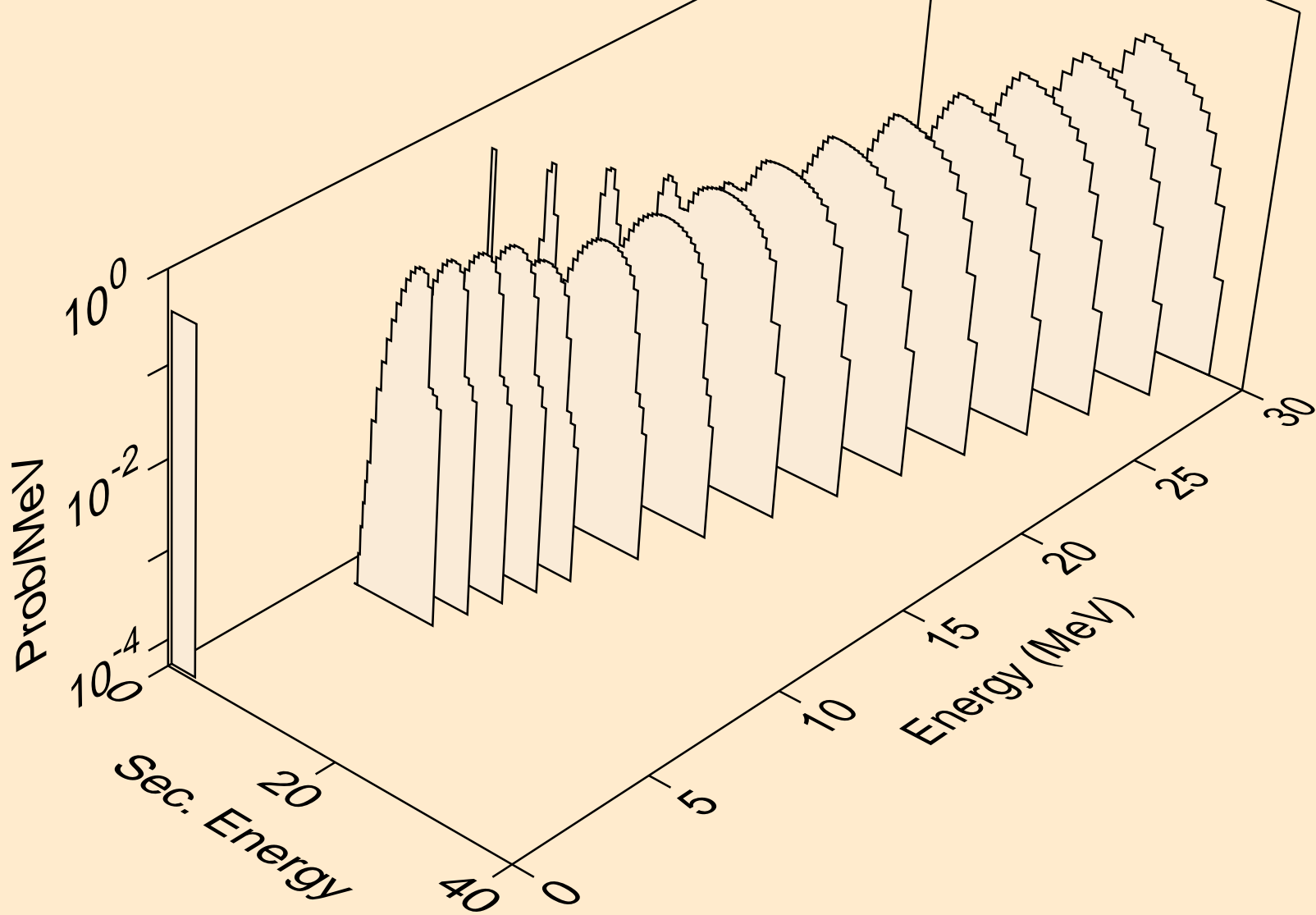


ND139 HELION ACER TENDL-2023 LIBRARY; T=0.K  
protons from (s,npa)

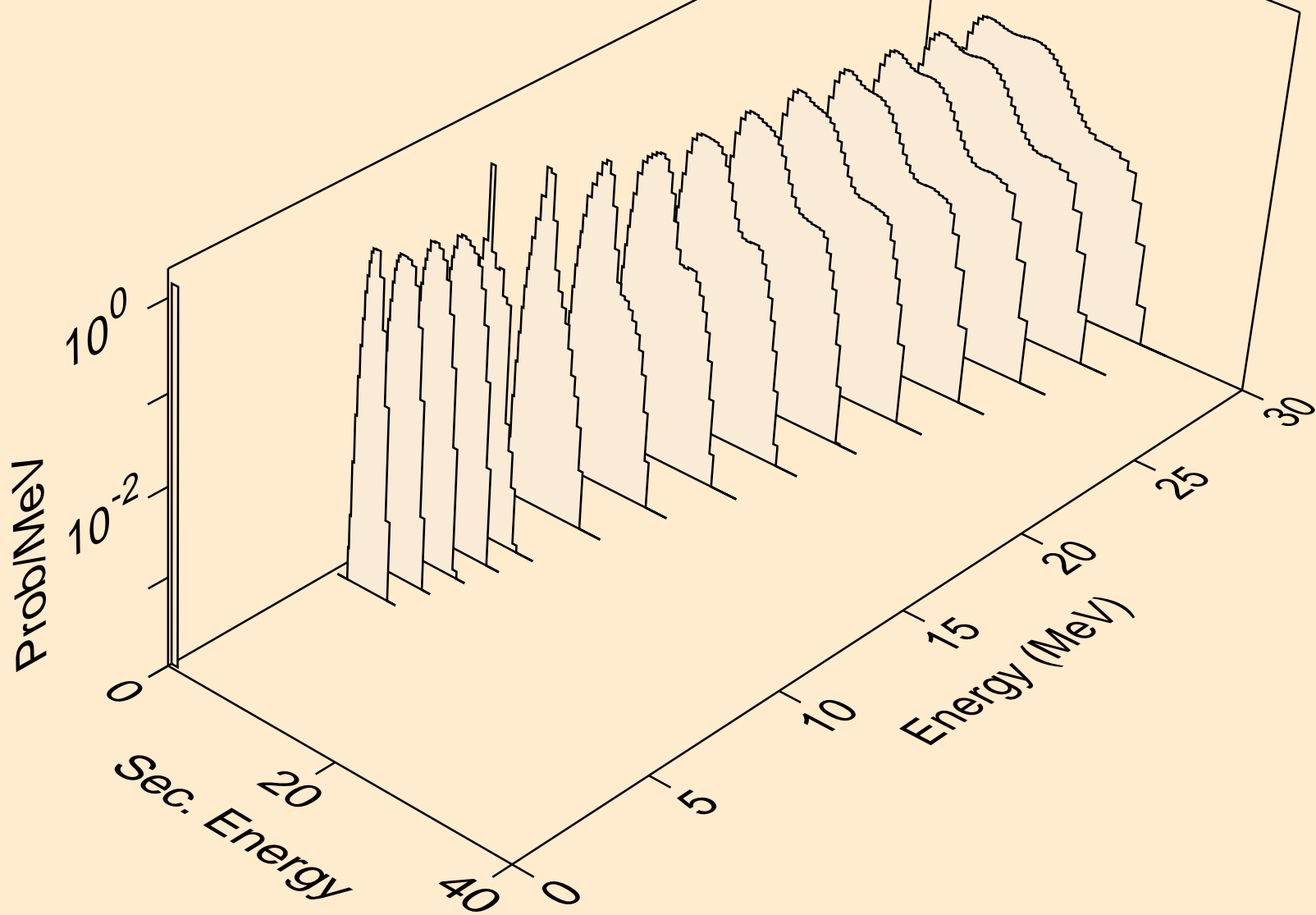




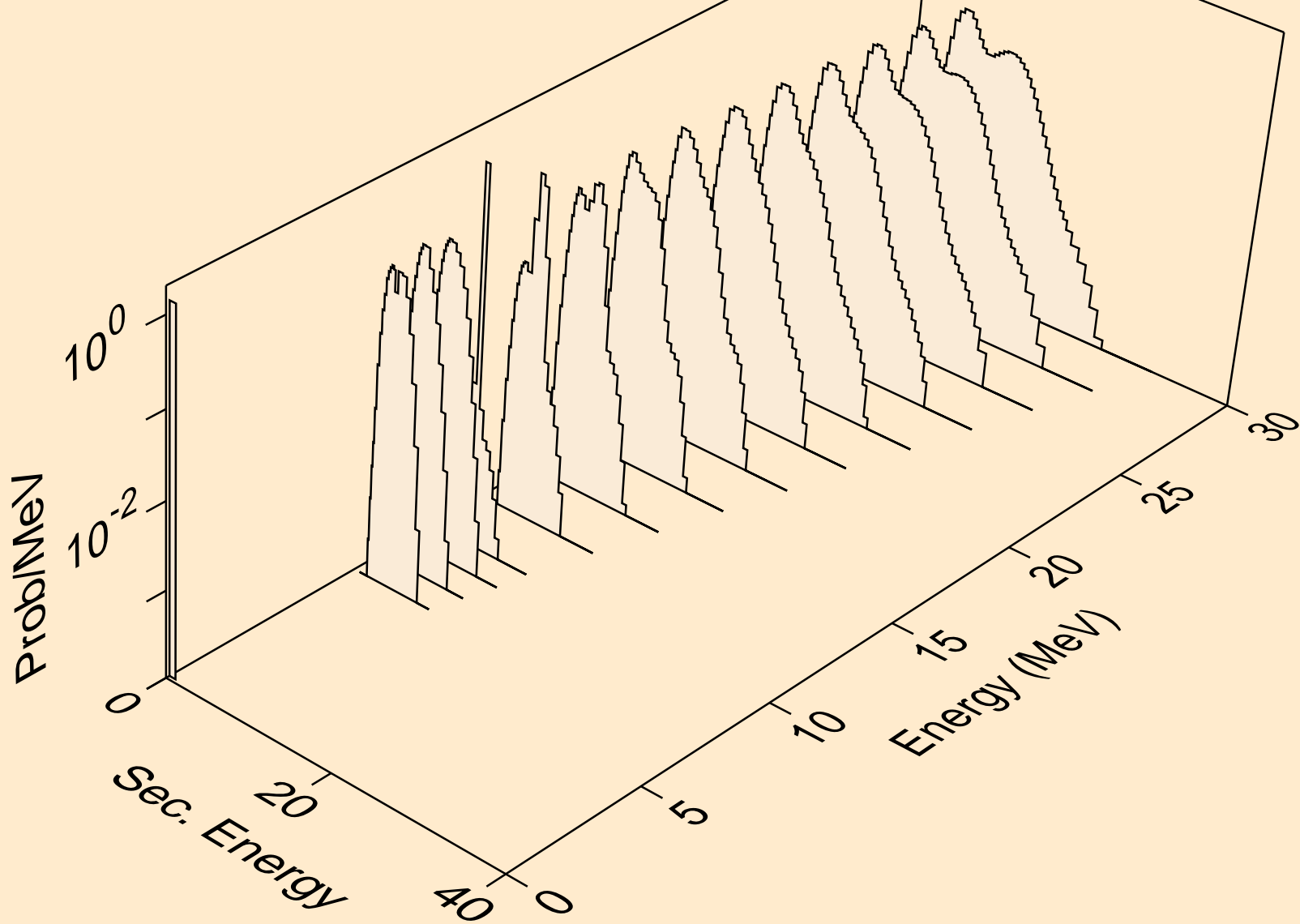
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protons from (s,p)



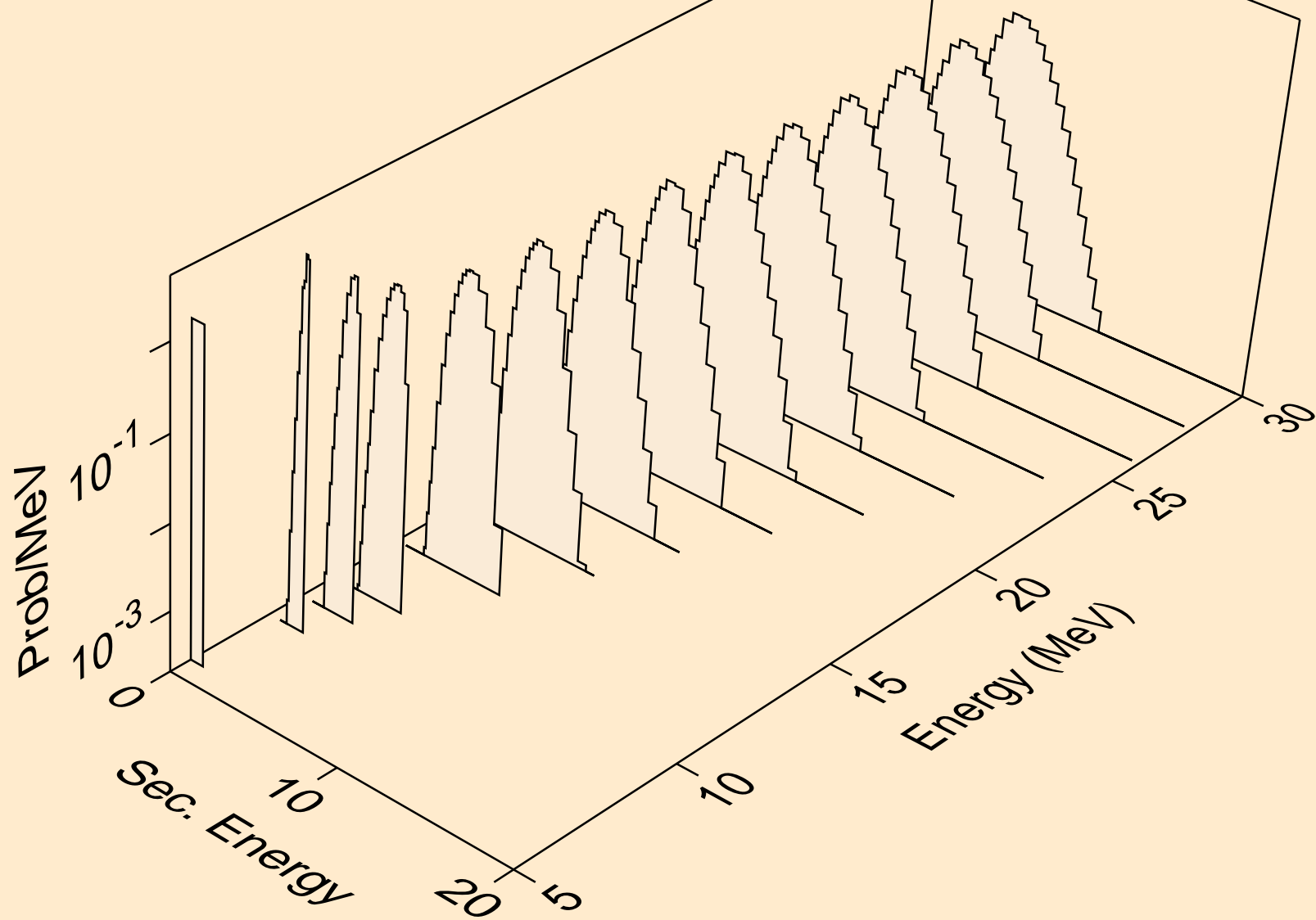
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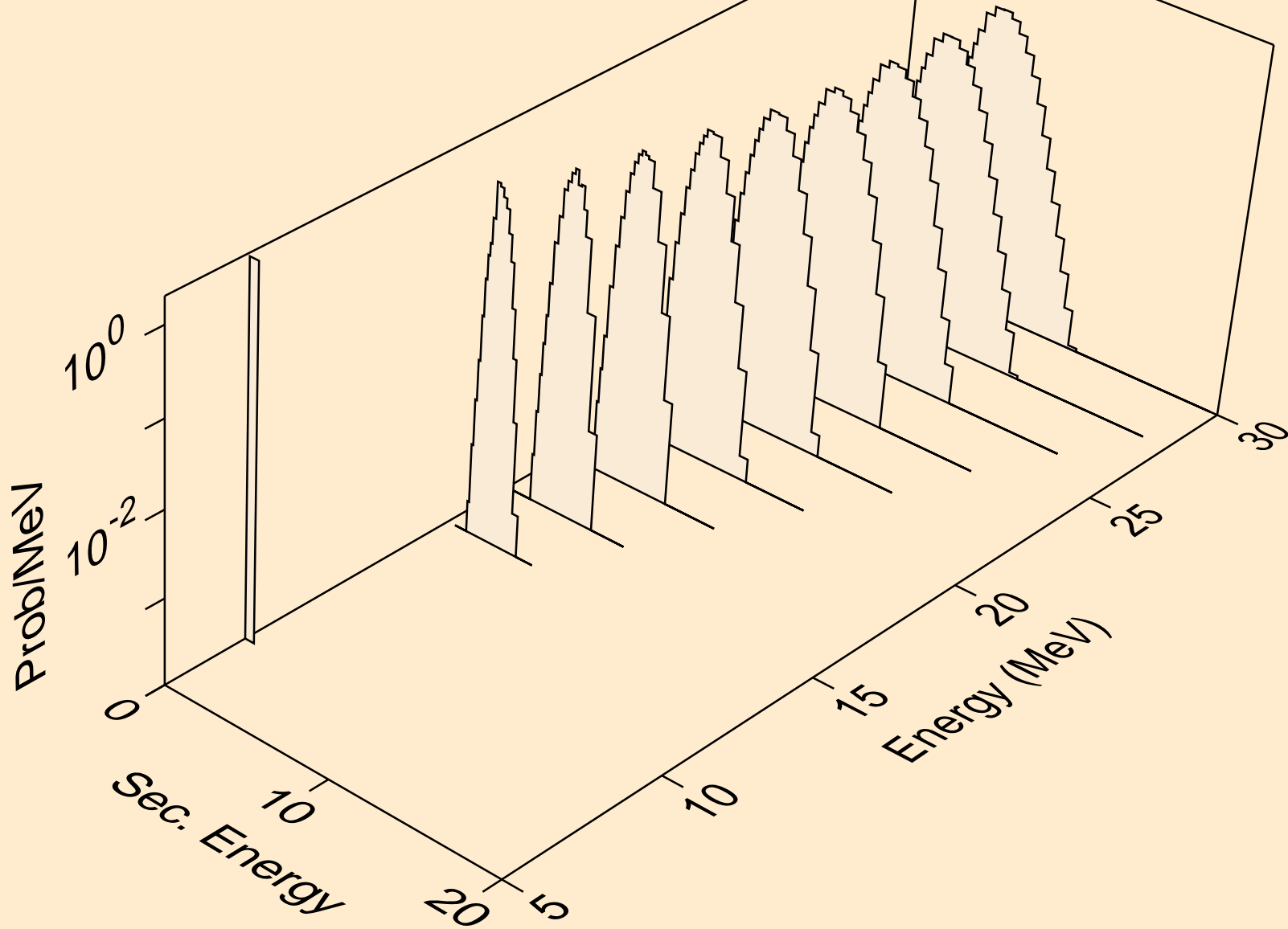
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protons from (s,pa)



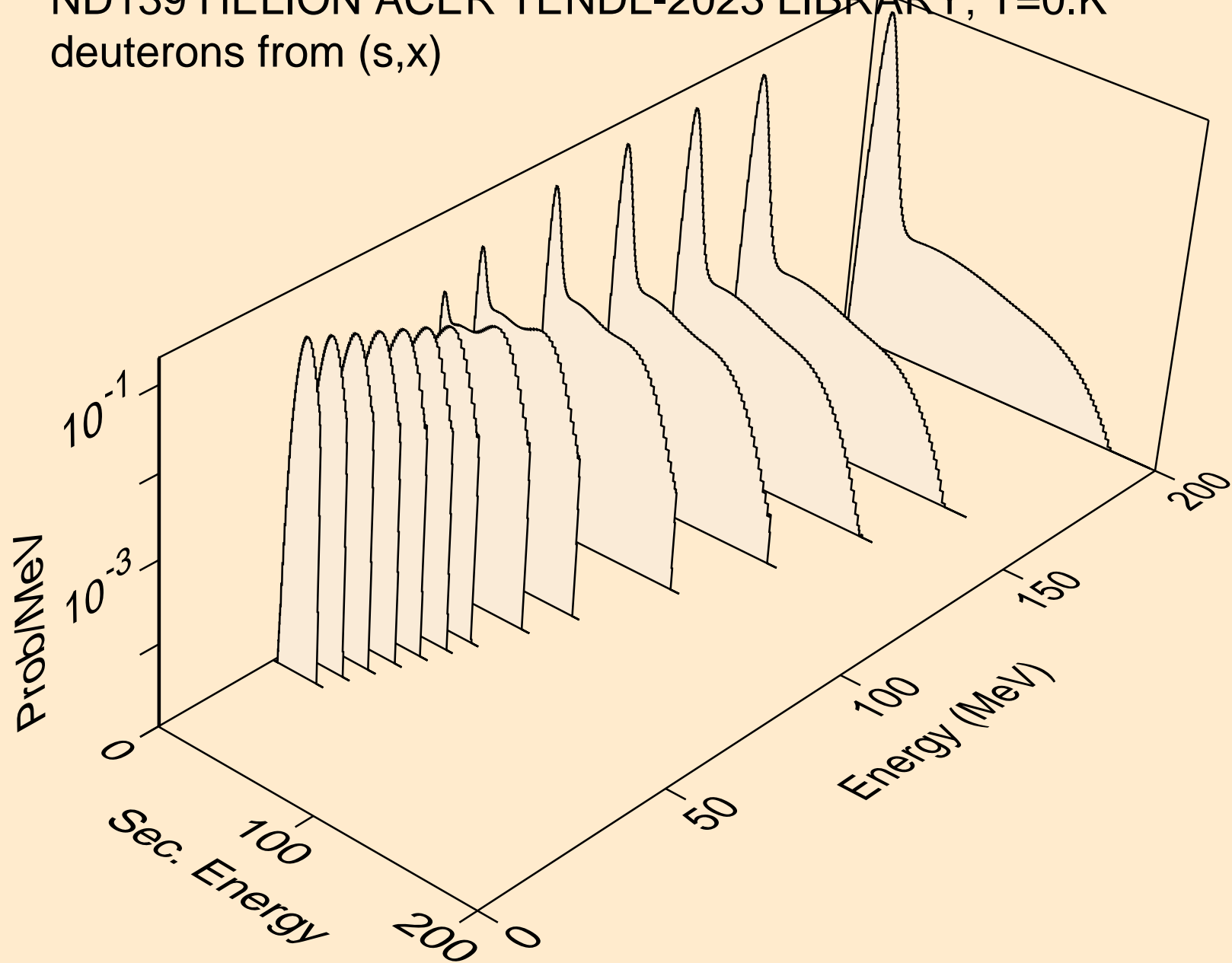
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protons from (s,pd)



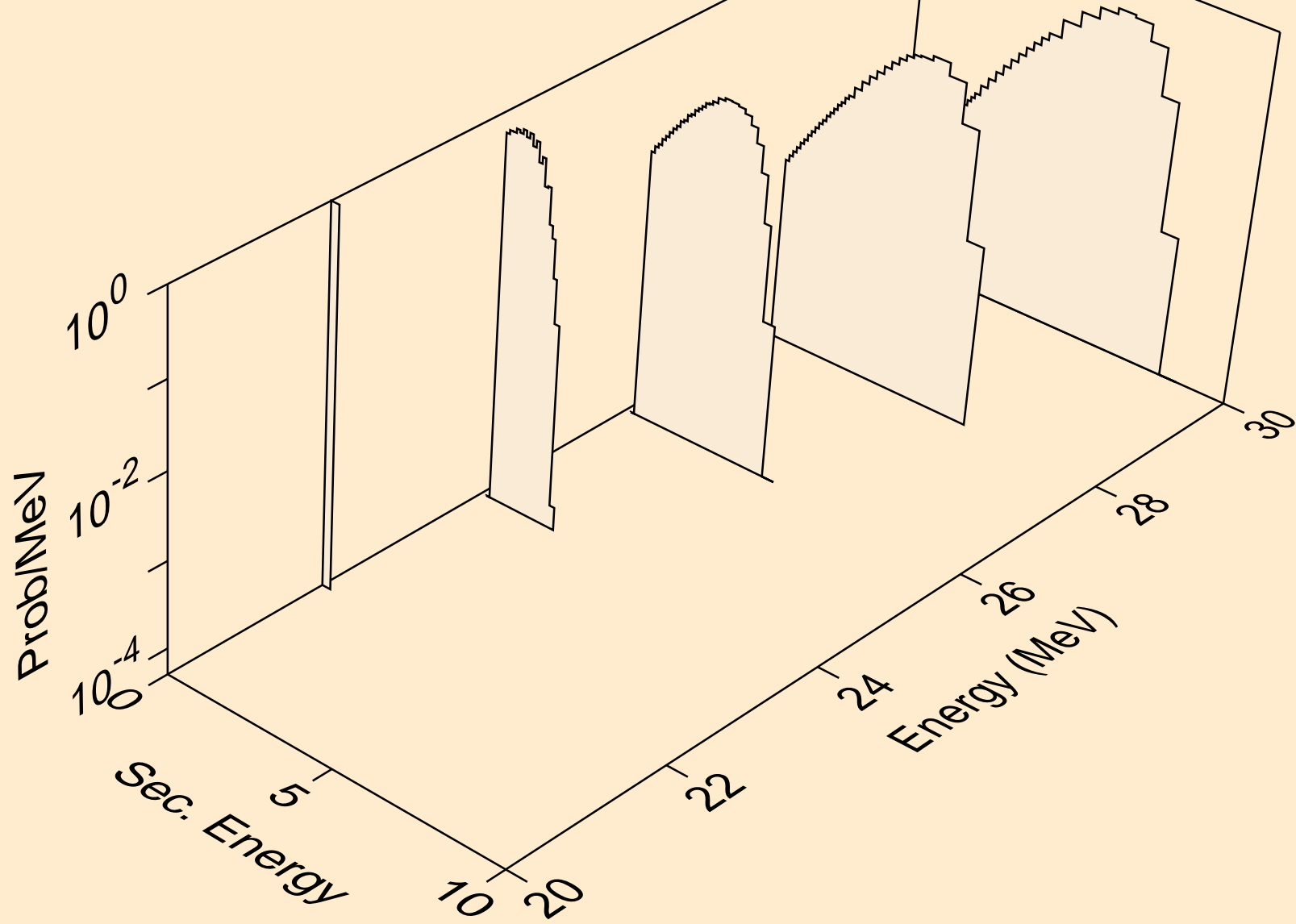
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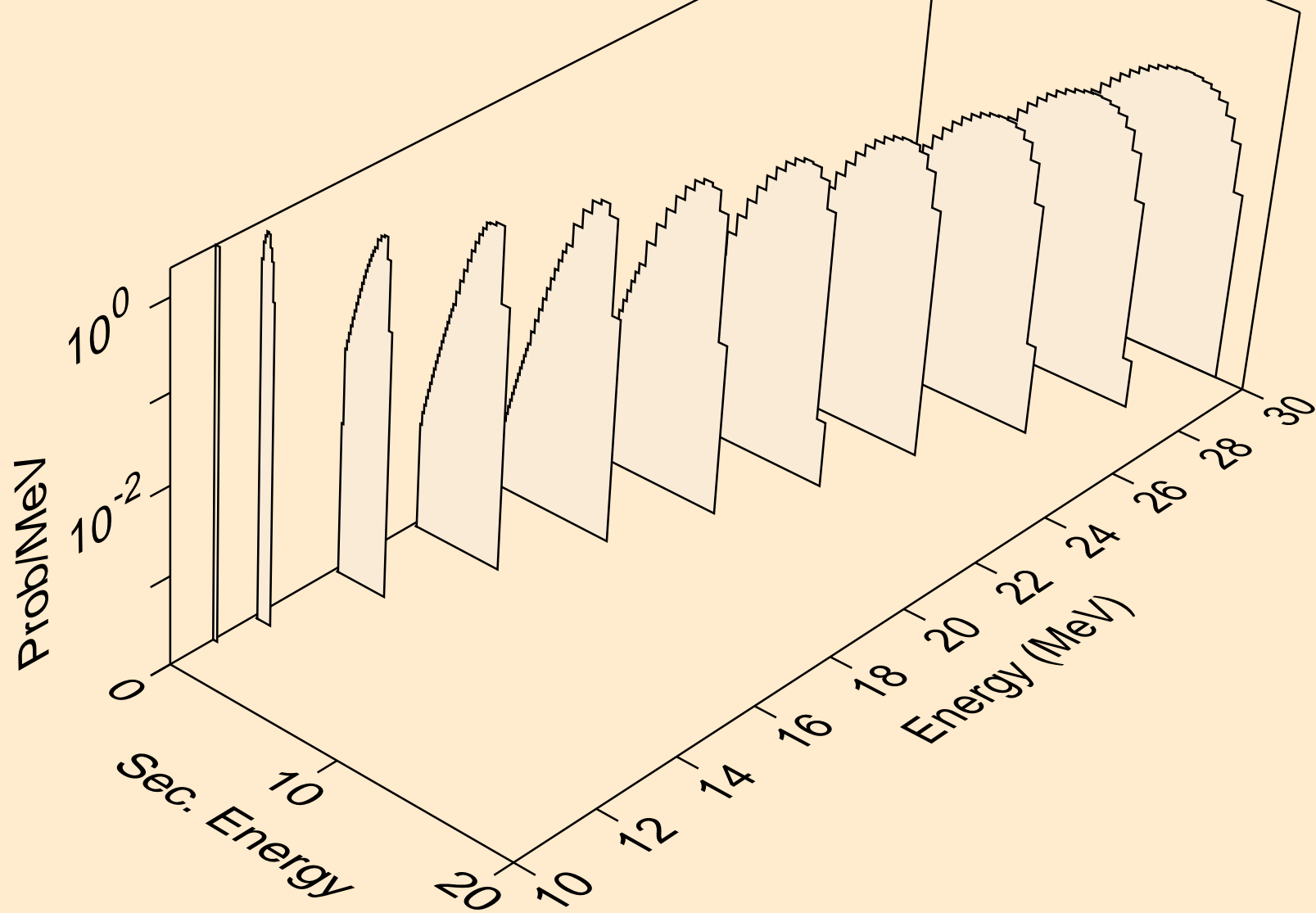
ND139 HELION ACER TENDL-2023 LIBRARY; T=0.K  
deuterons from (s,x)



ND139 HELION ACER TENDL-2023 LIBRARY; T=0.K  
deuterons from (s,2nd)

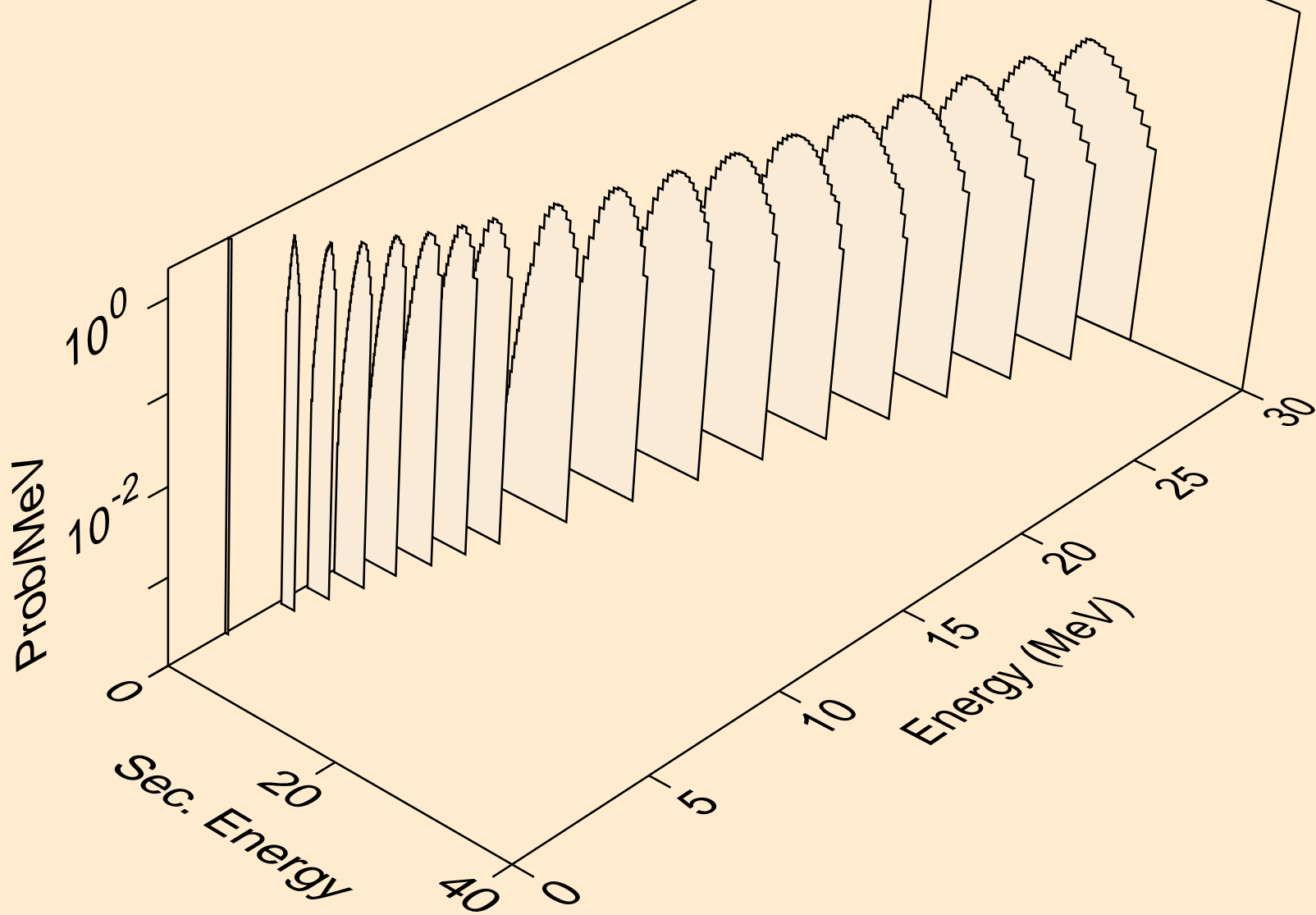


ND139 HELION ACER TENDL-2023 LIBRARY; T=0.K  
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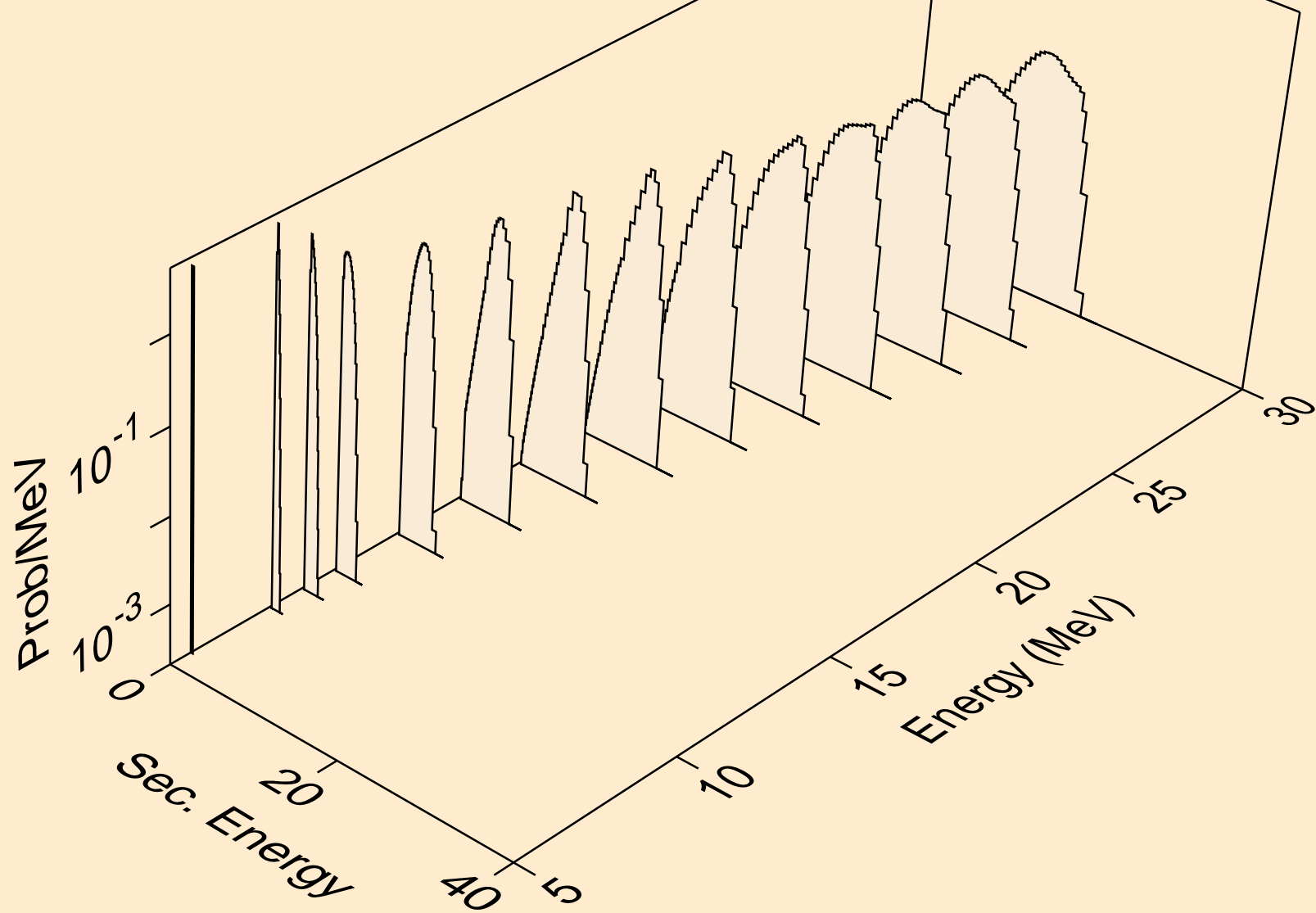




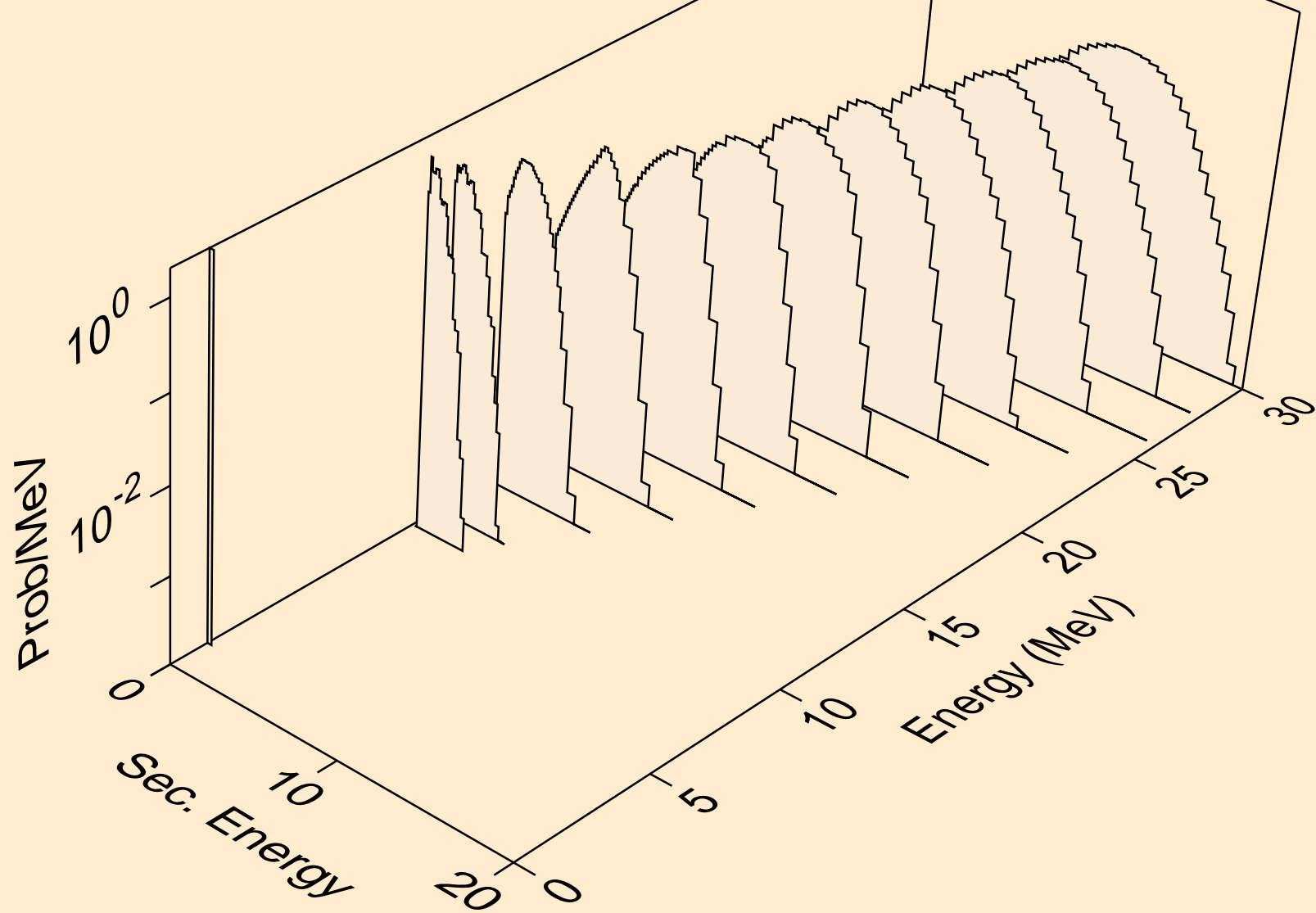
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deuterons from (s,d)



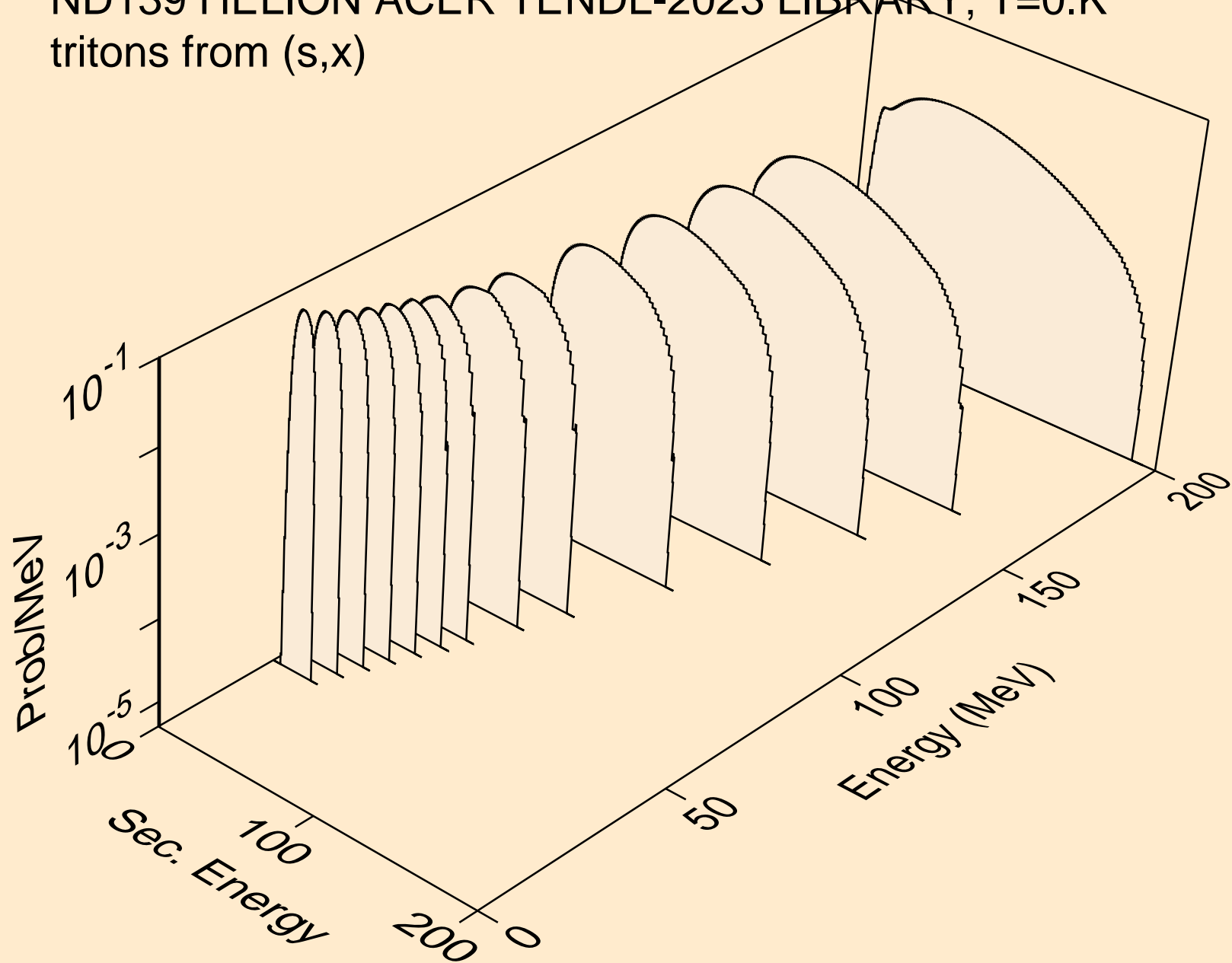
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deuterons from (s,pd)



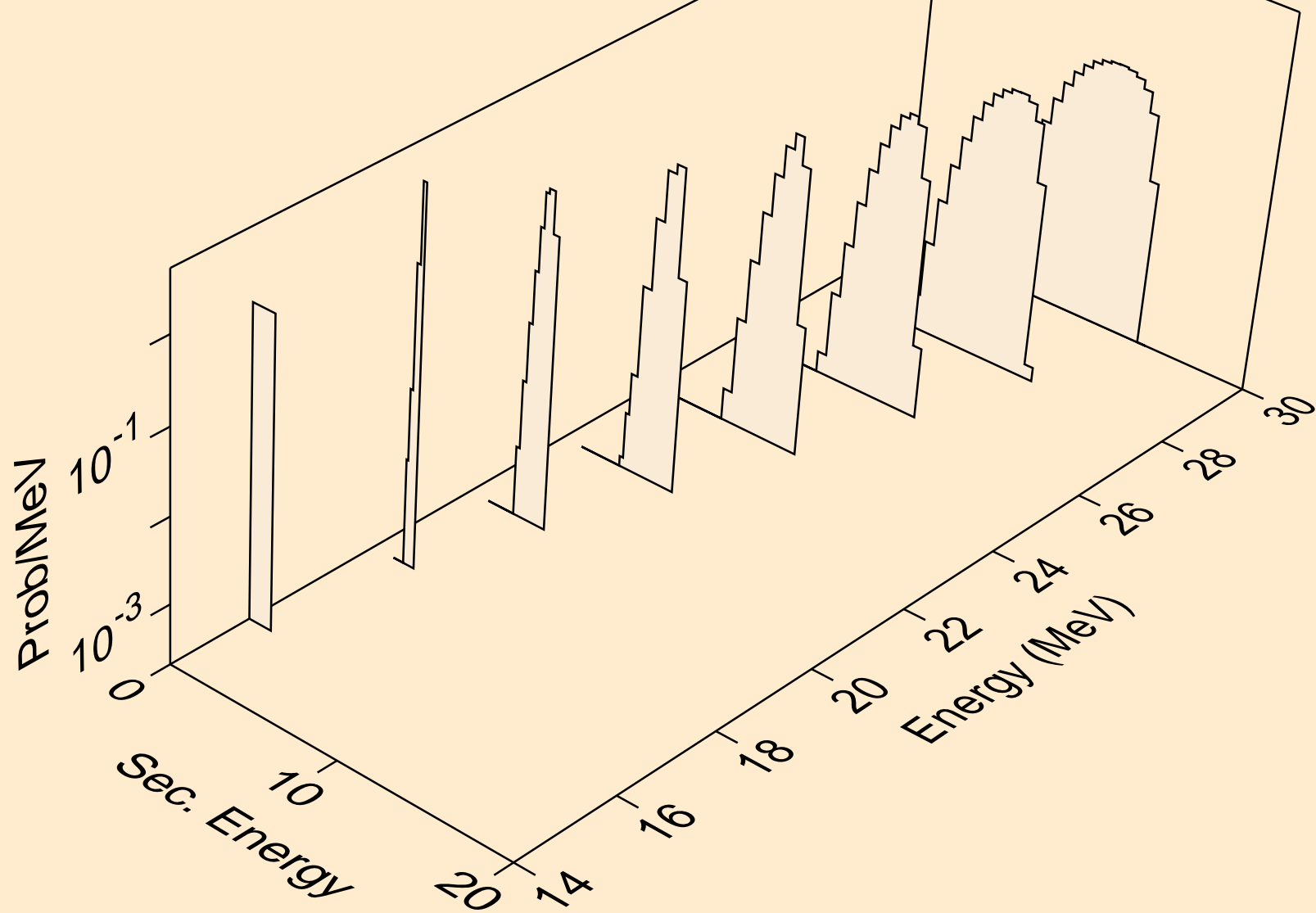
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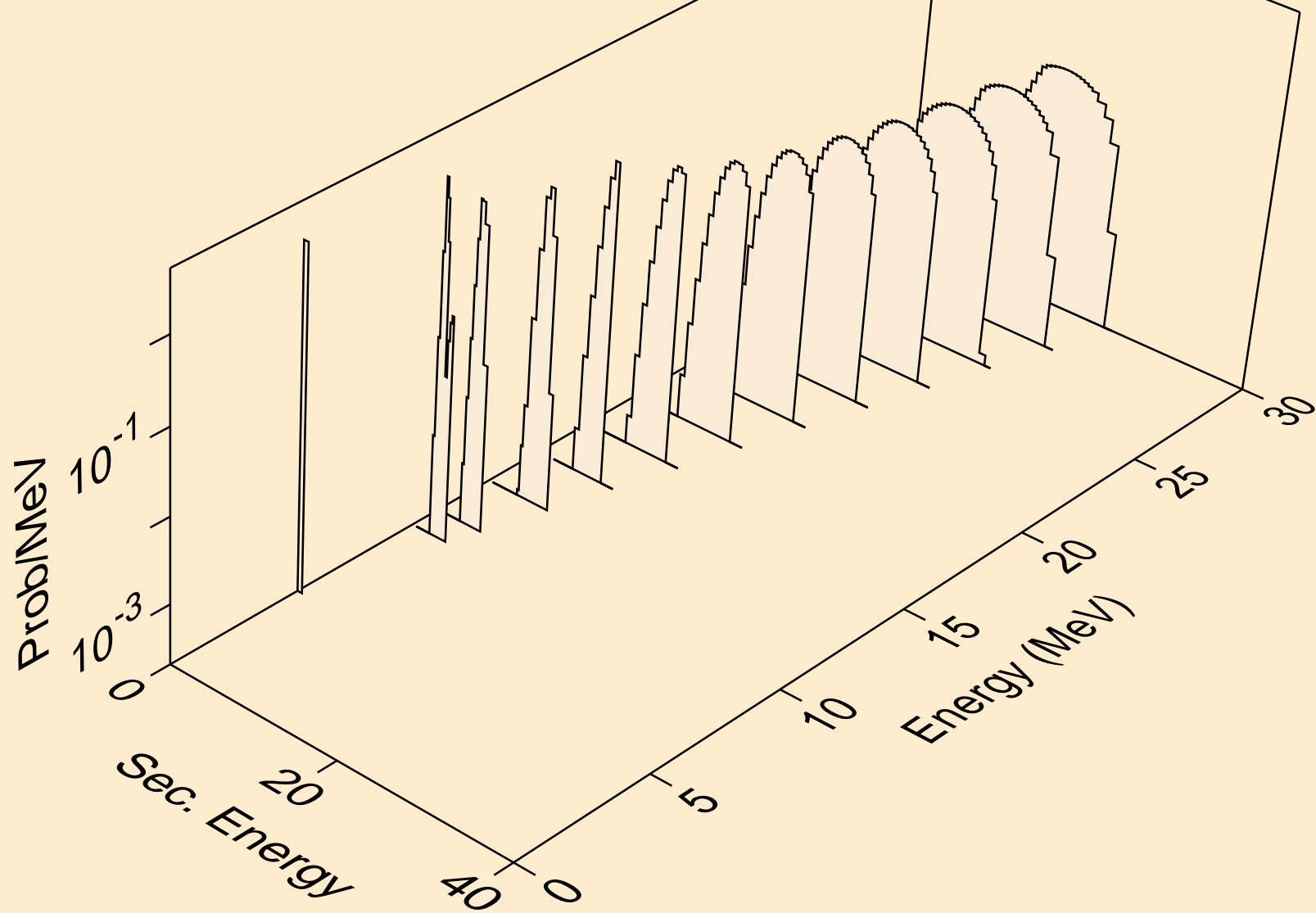
ND139 HELION ACER TENDL-2023 LIBRARY; T=0.K  
tritons from (s,x)



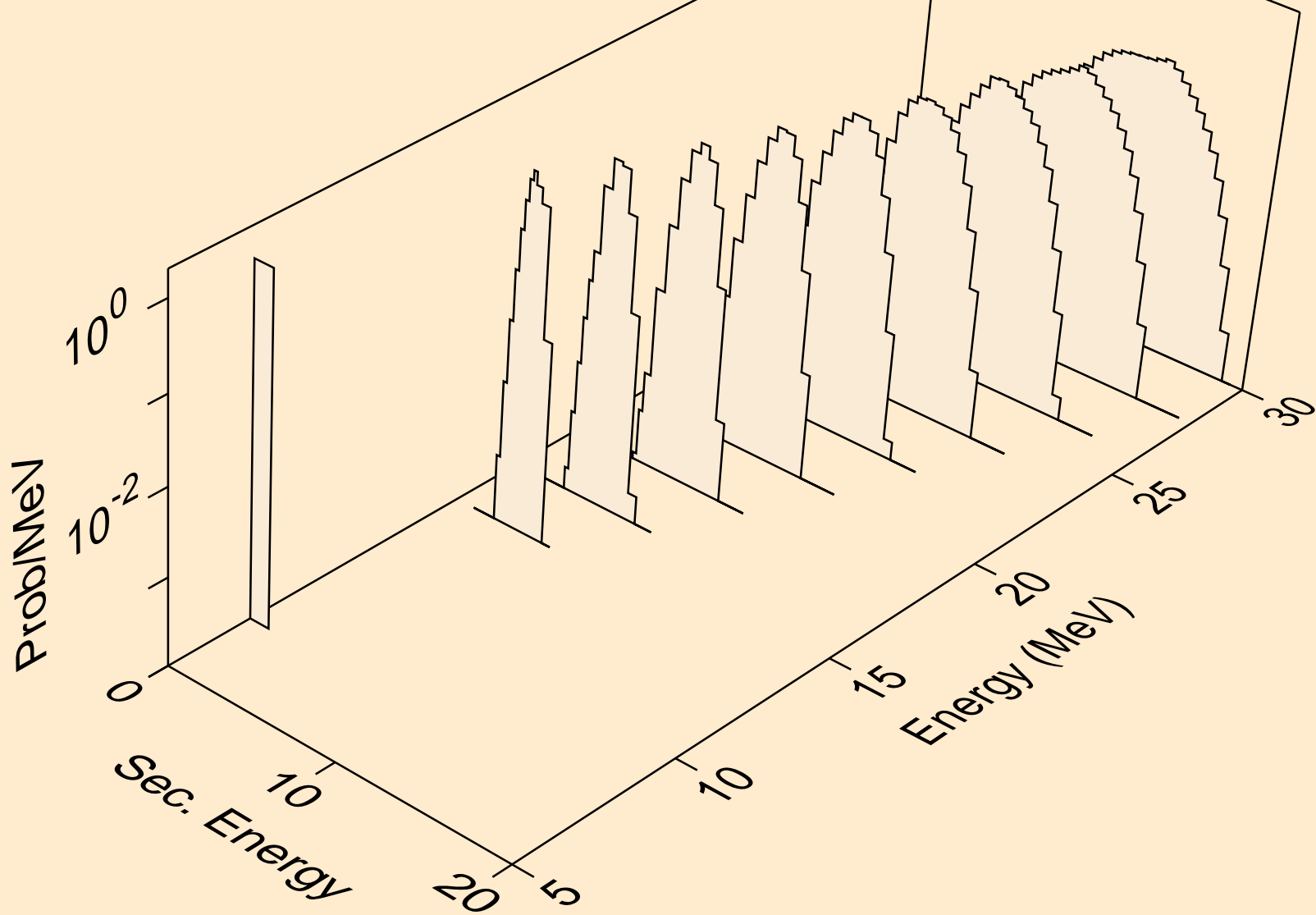
ND139 HELION ACER TENDL-2023 LIBRARY; T=0.K  
tritons from (s,n\*)t



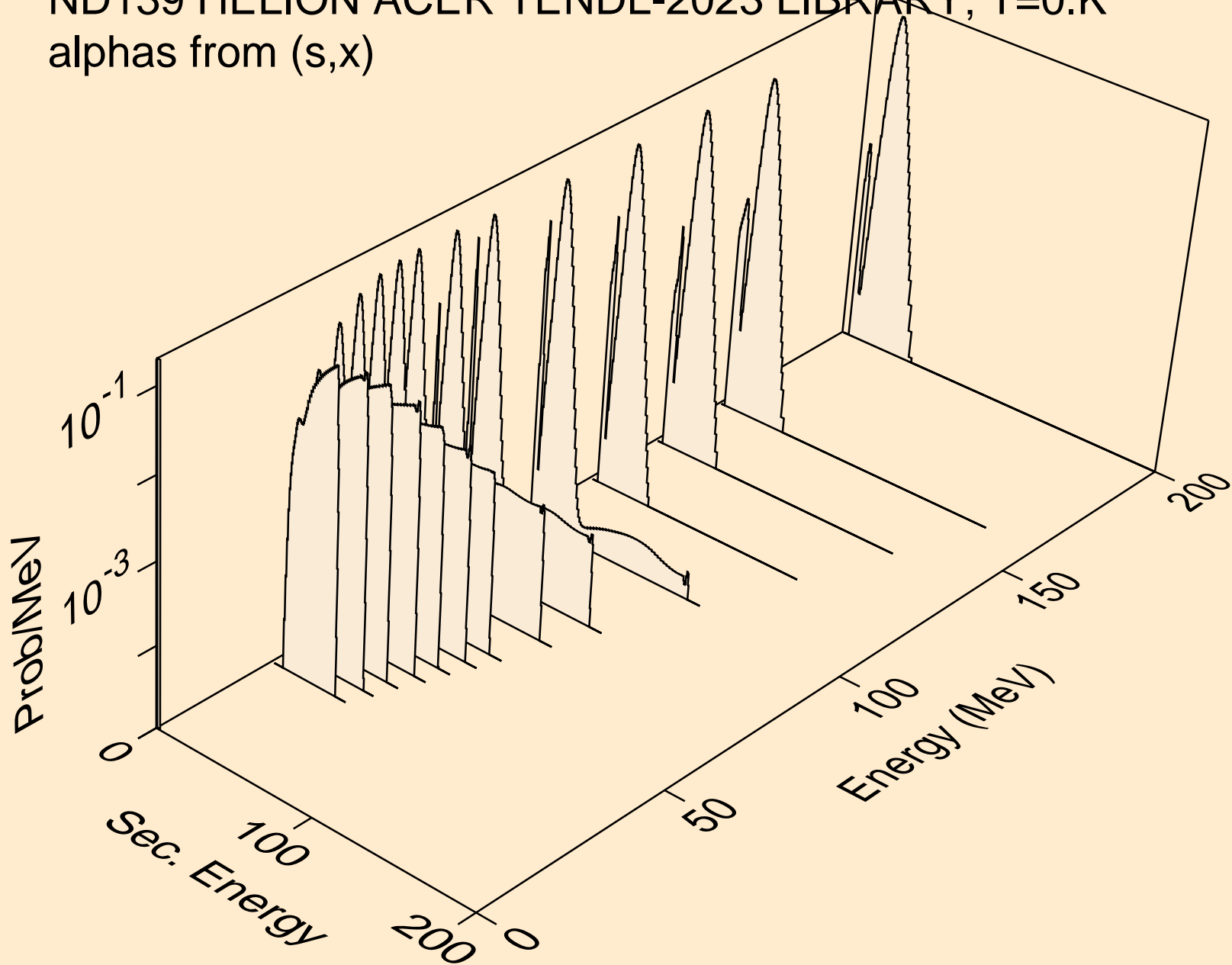
ND139 HELION ACER TENDL-2023 LIBRARY; T=0.K  
tritons from (s,t)



ND139 HELION ACER TENDL-2023 LIBRARY; T=0.K  
tritons from (s,pt)

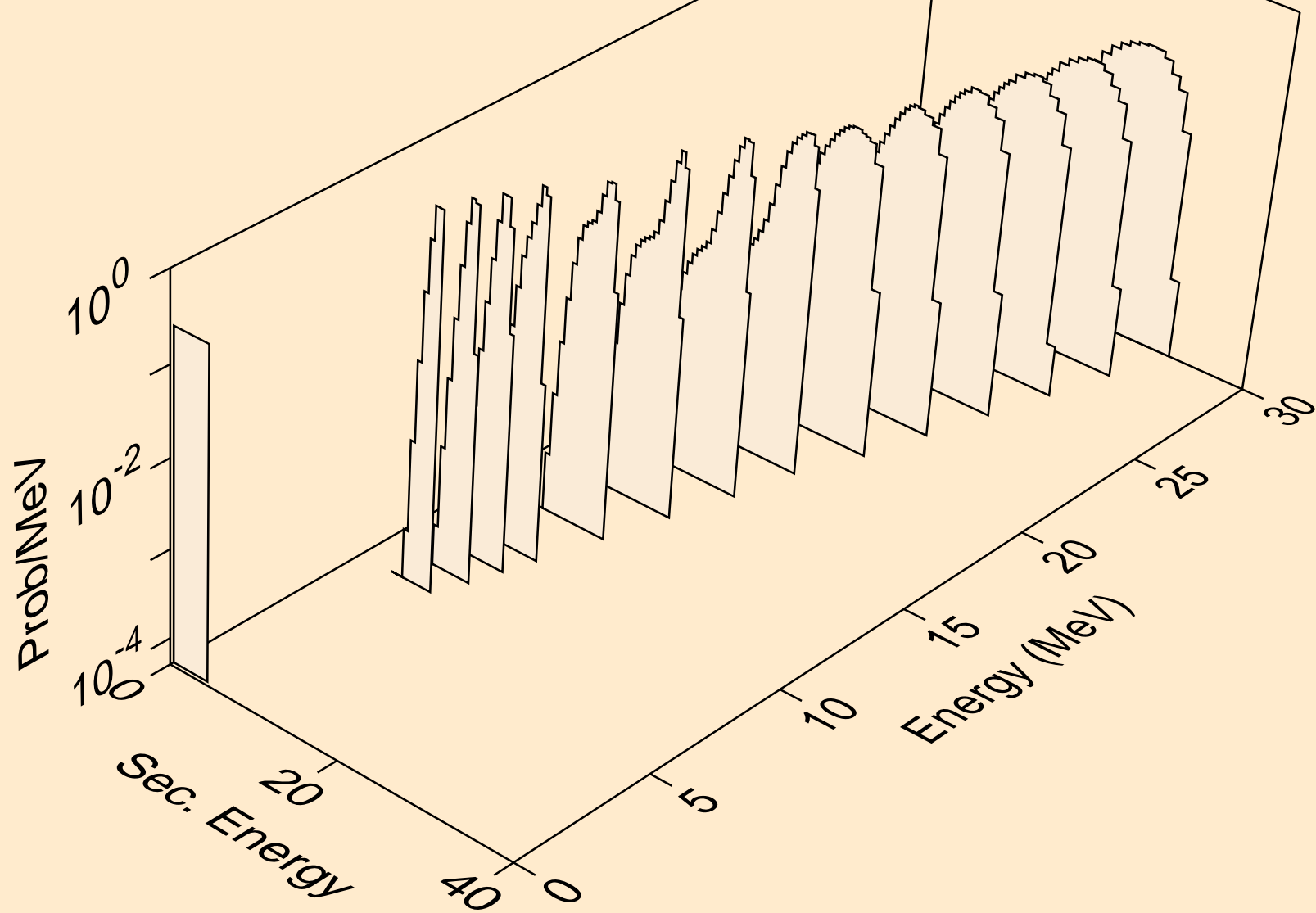


ND139 HELION ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (s,x)

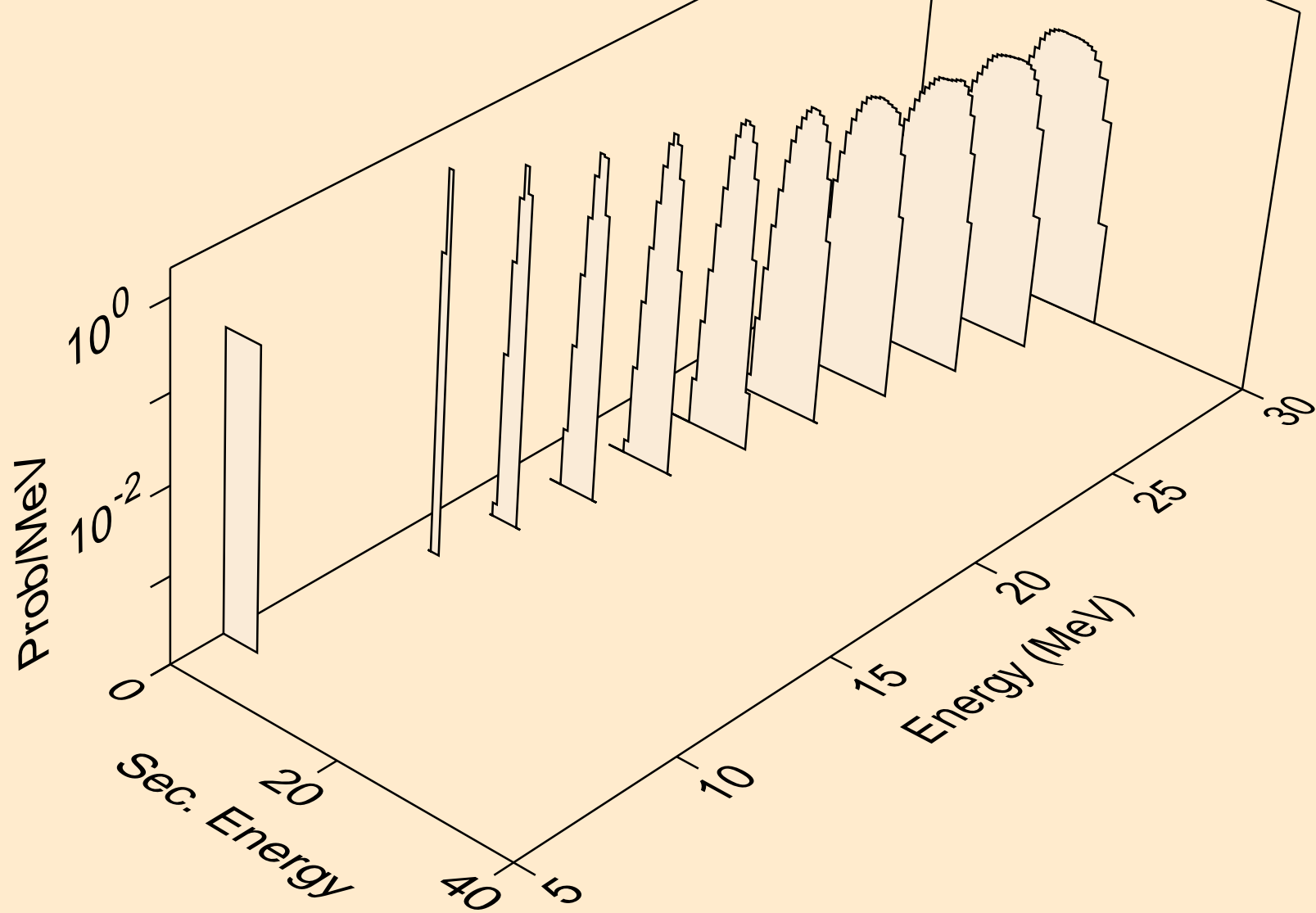




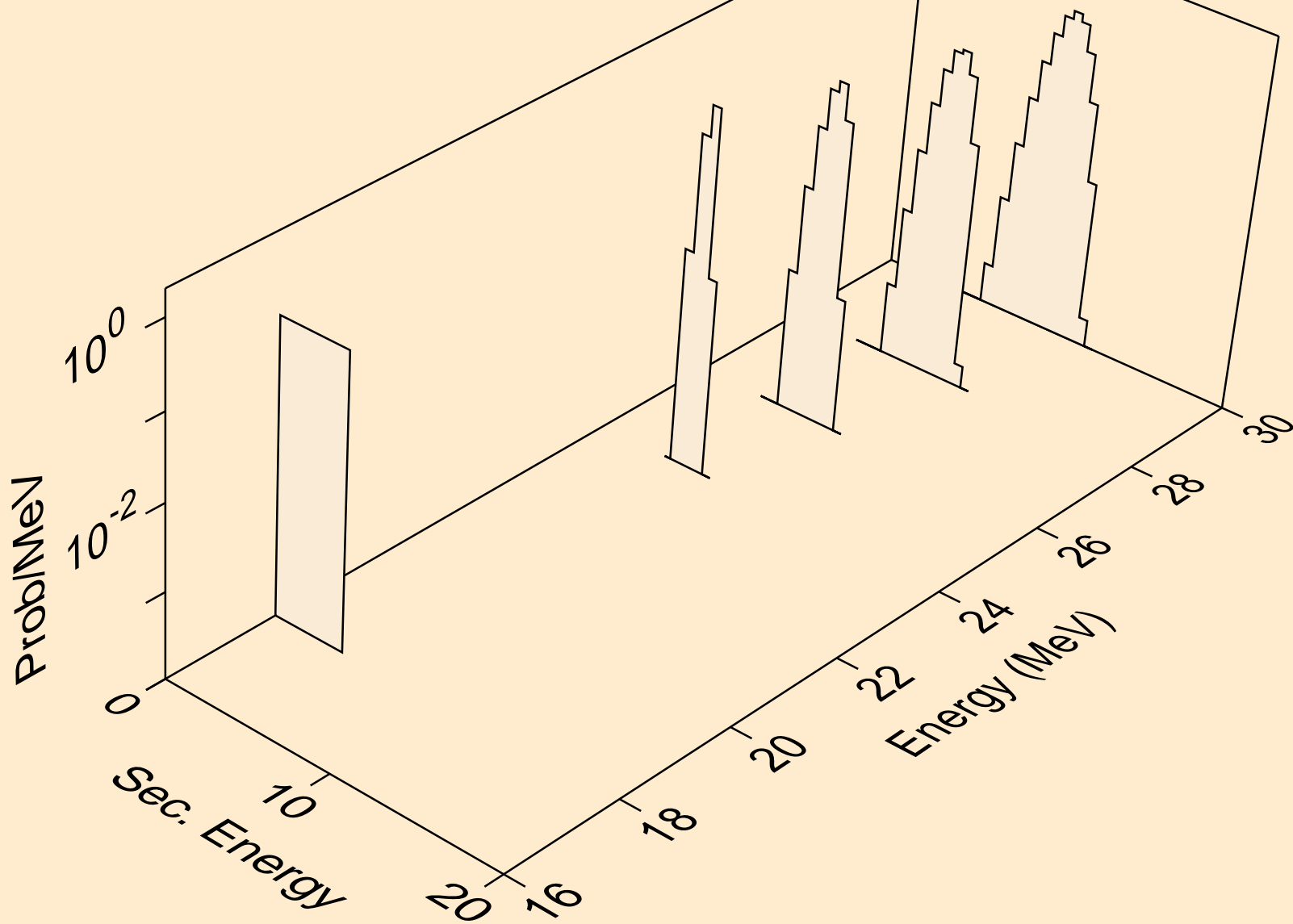
ND139 HELION ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (s,n\*)a



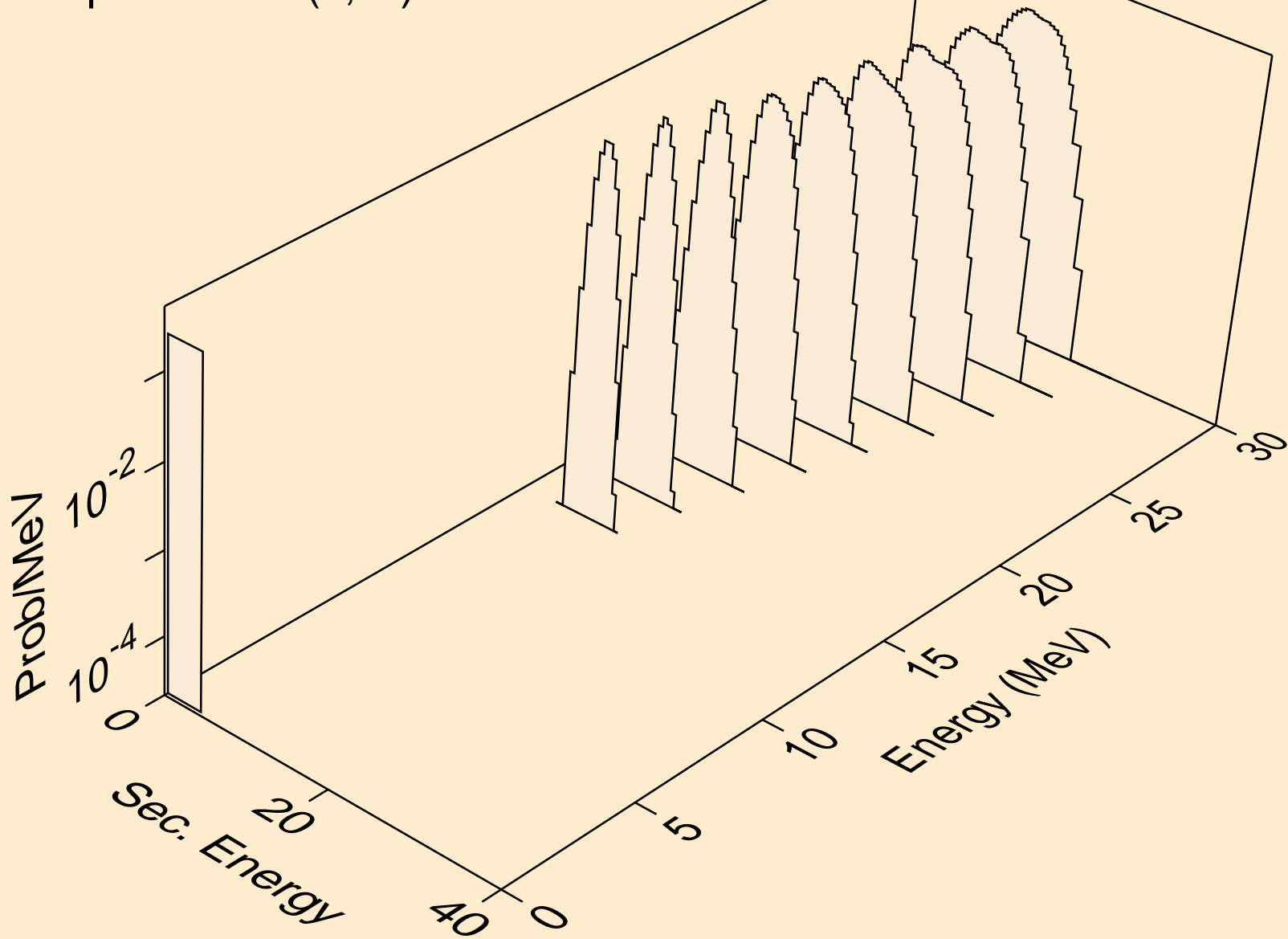
ND139 HELION ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (s,2n)a



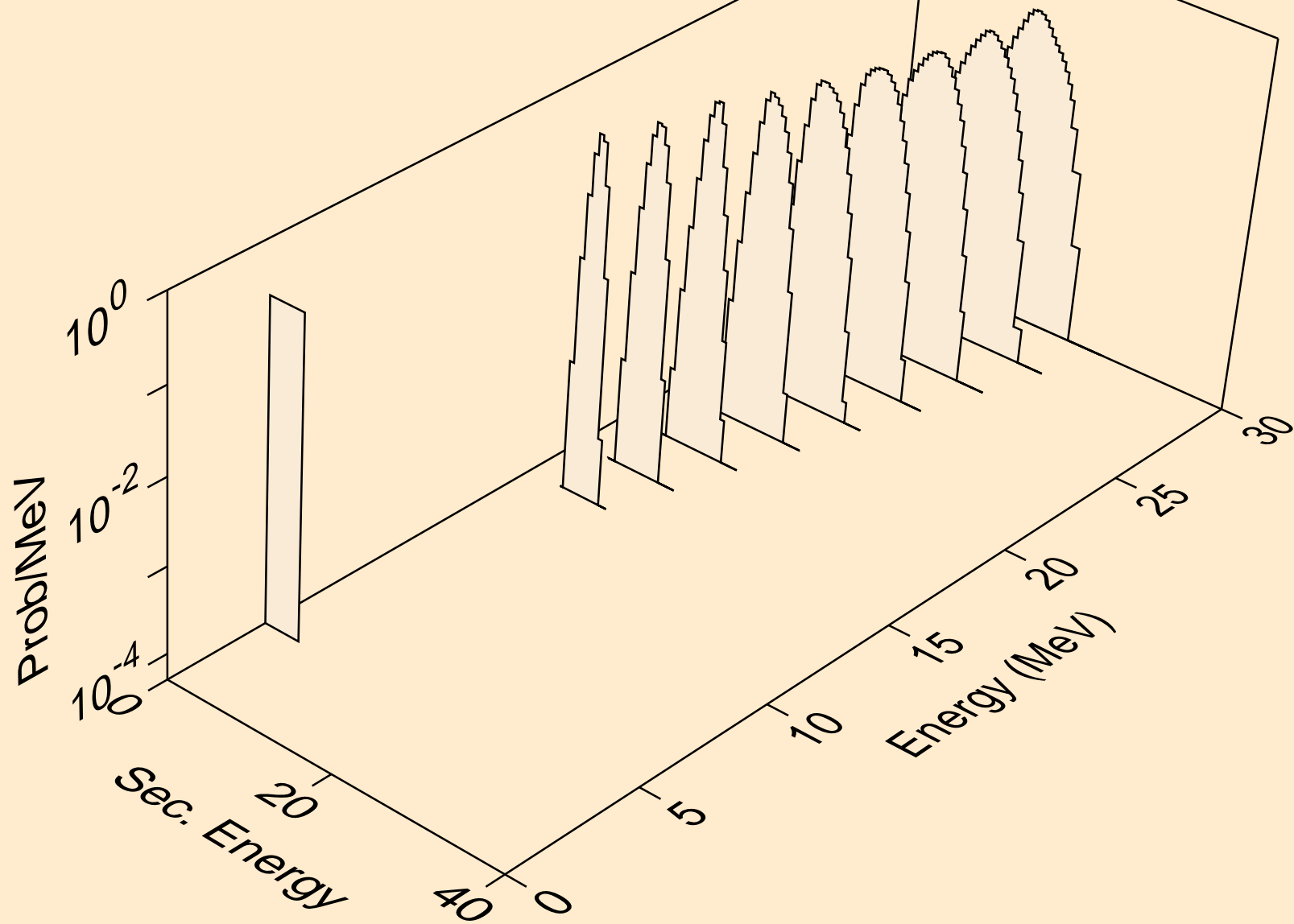
ND139 HELION ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (s,3n)a



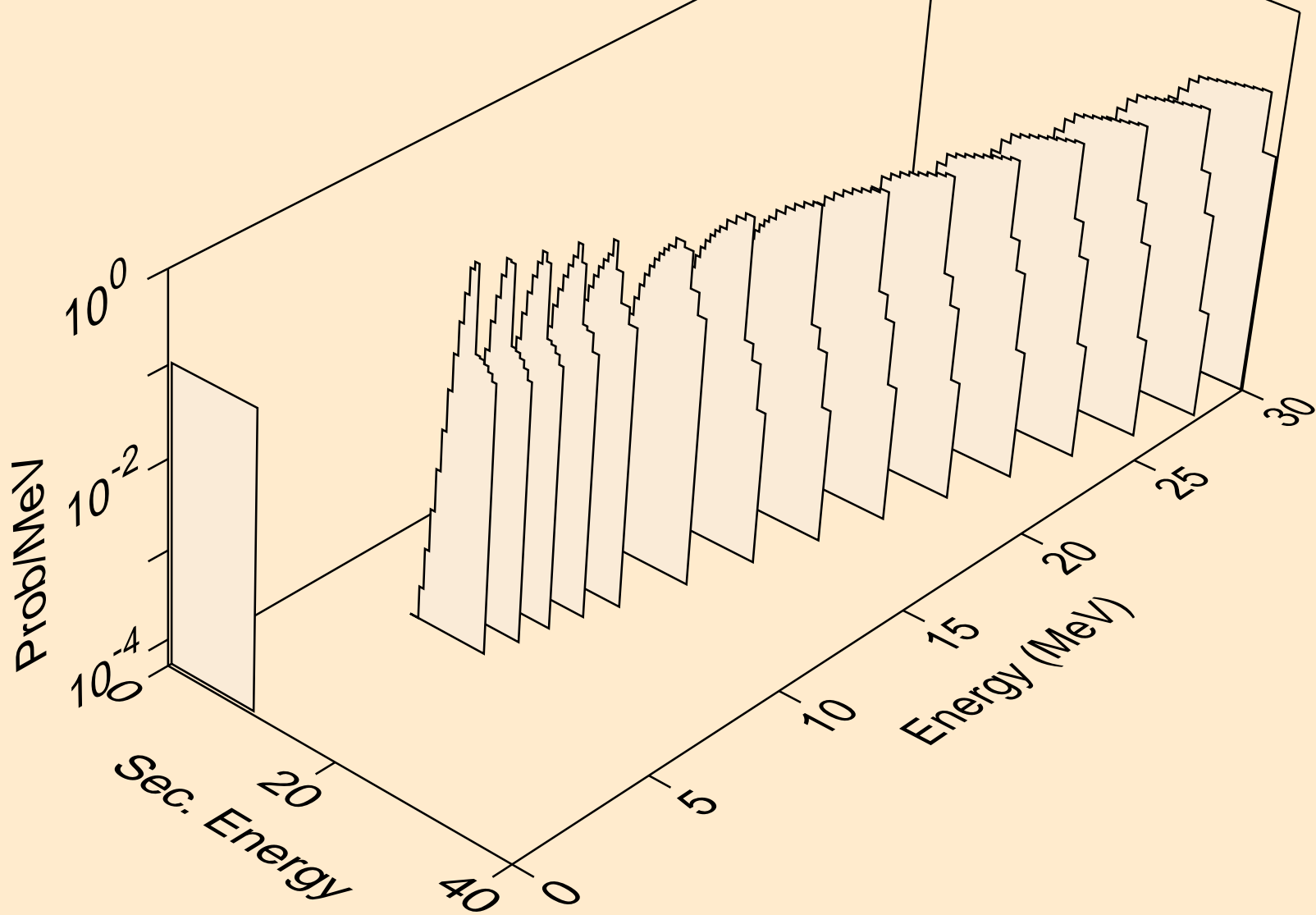
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alphas from (s,n\*)2a



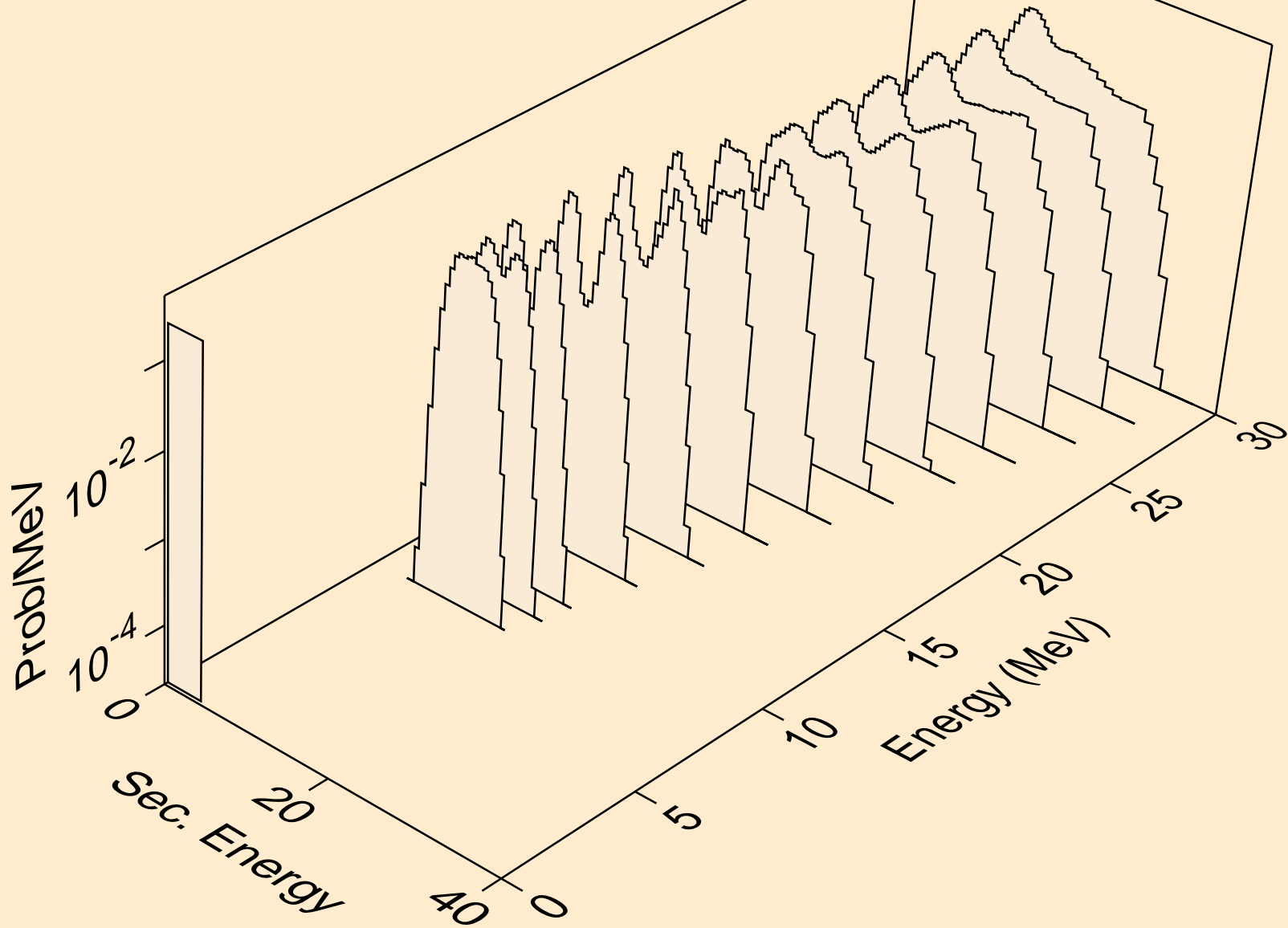
ND139 HELION ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (s,npa)



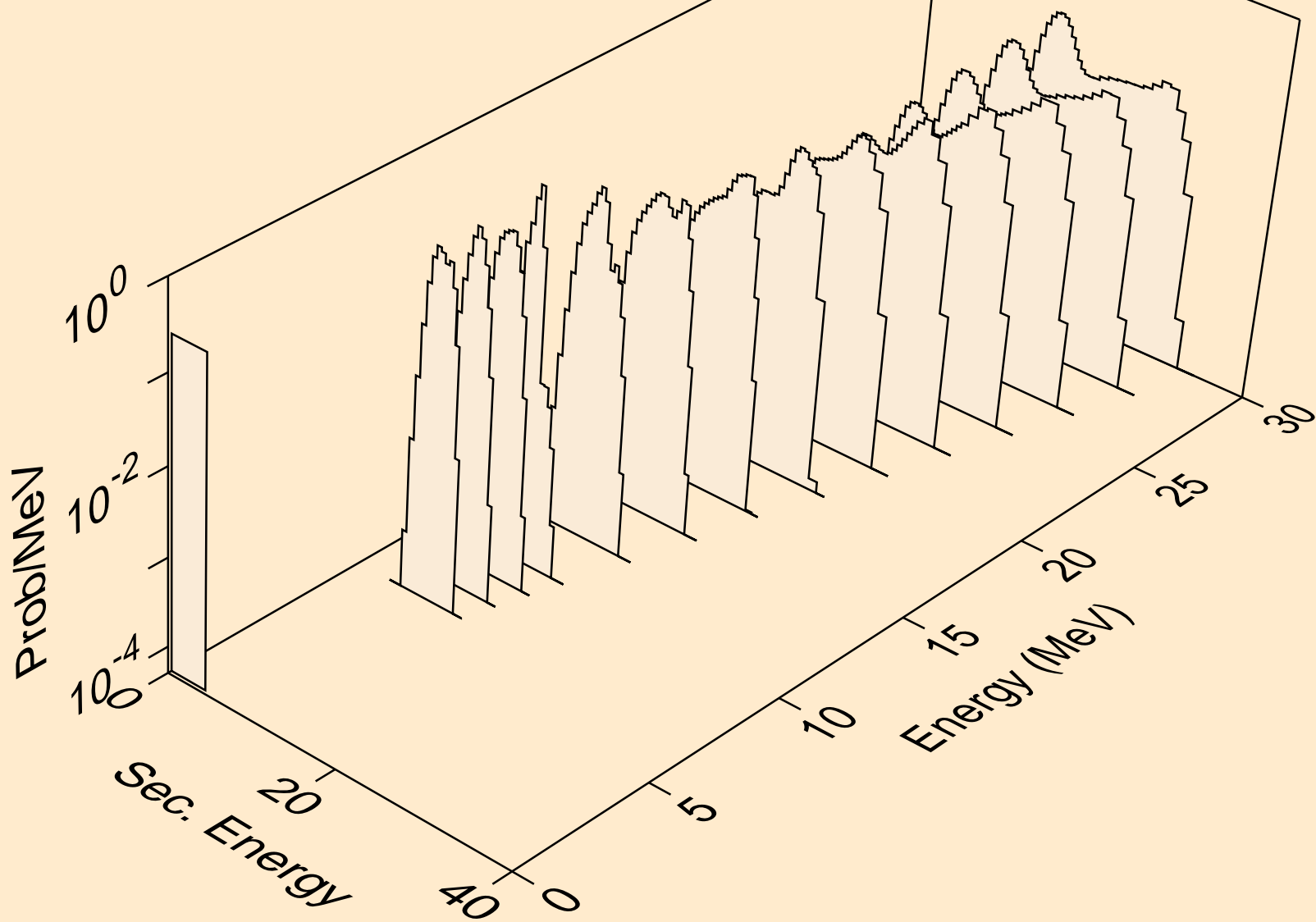
ND139 HELION ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (s,a)



ND139 HELION ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (s,2a)



ND139 HELION ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (s,pa)





ND139 HELION ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (s,da)

