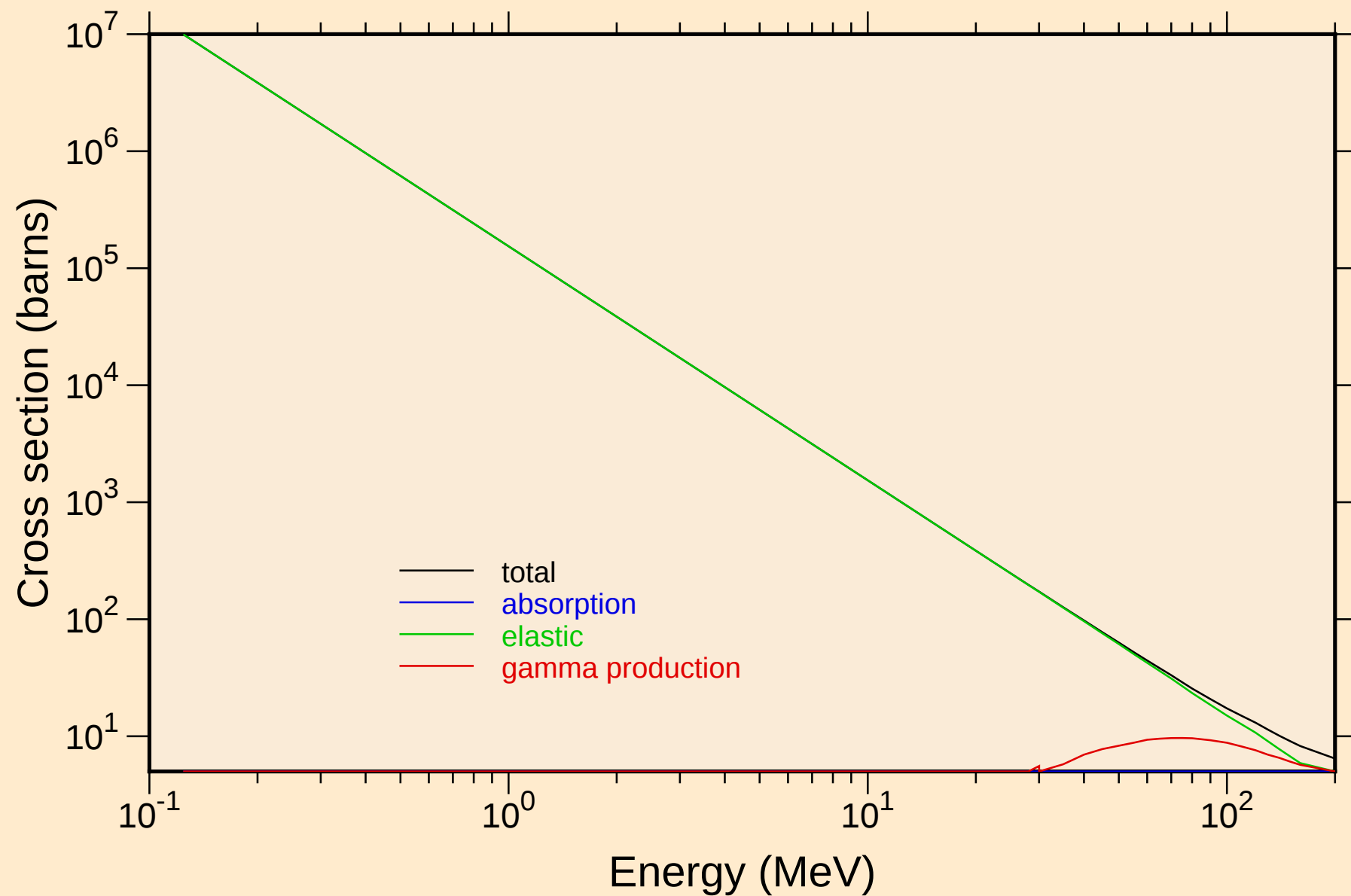


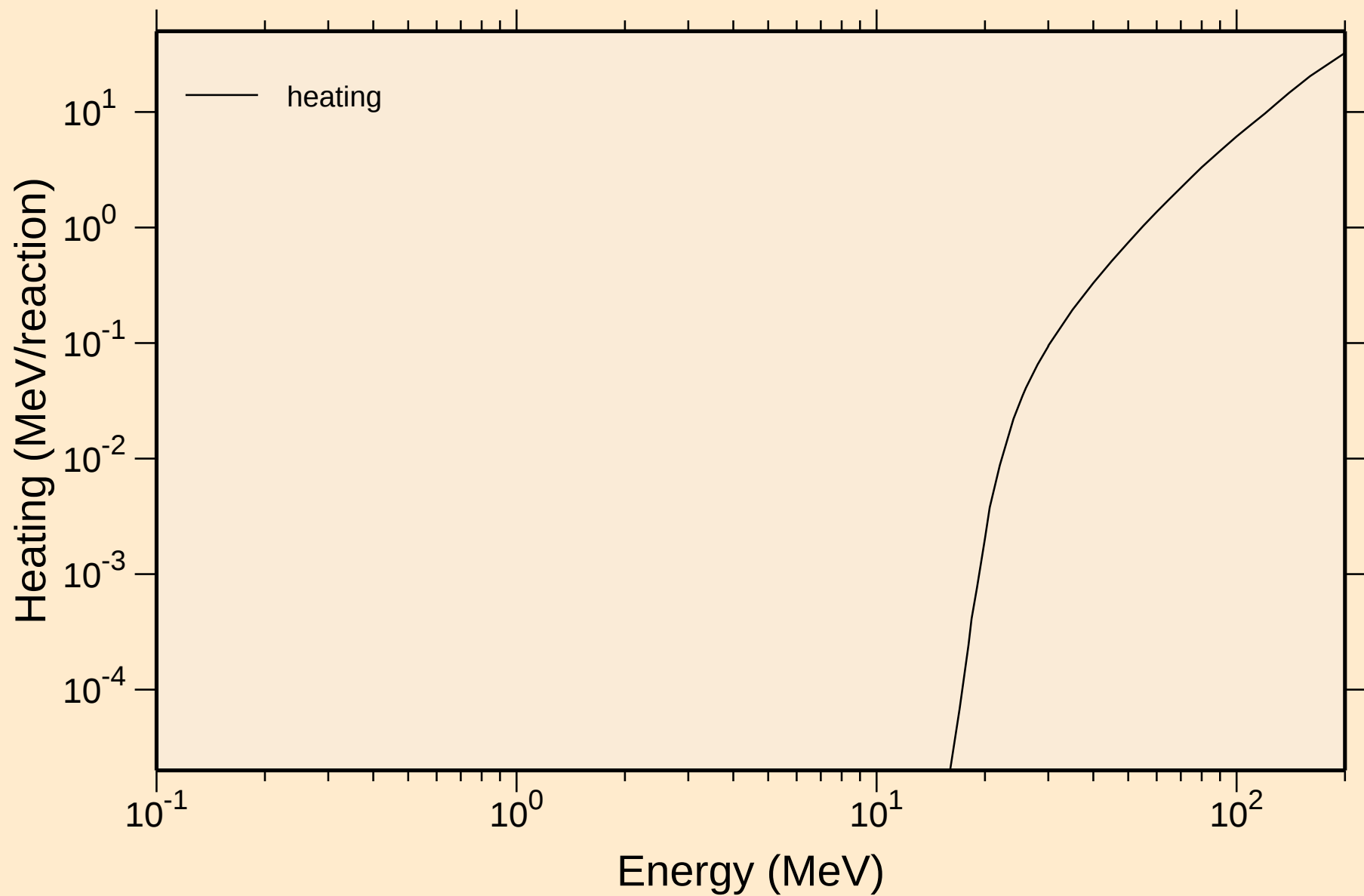
# PT190 HELION ACER TENDL-2023 LIBRARY; T=0.K

## Principal cross sections



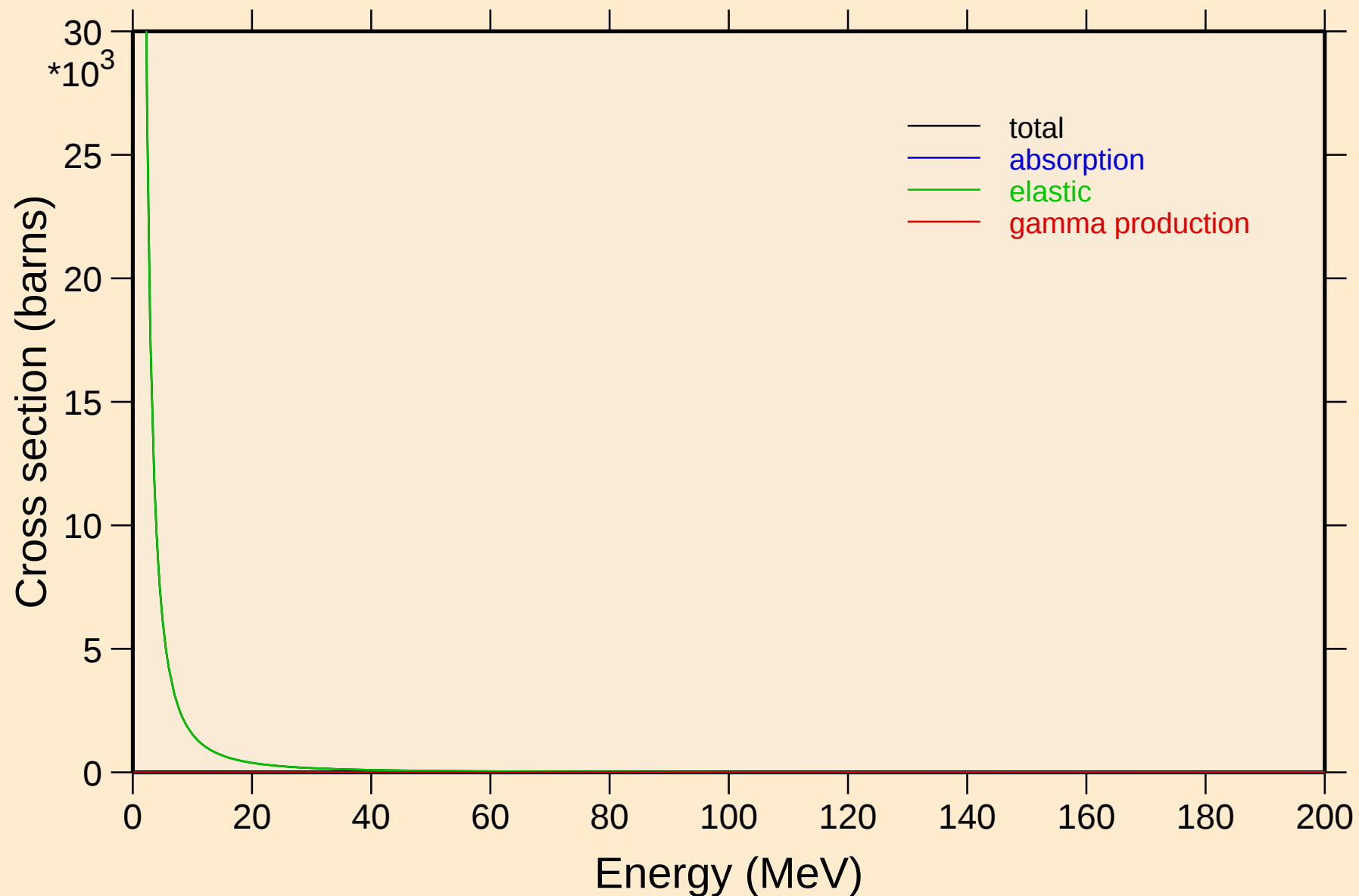
PT190 HELION ACER TENDL-2023 LIBRARY; T=0.K

Heating



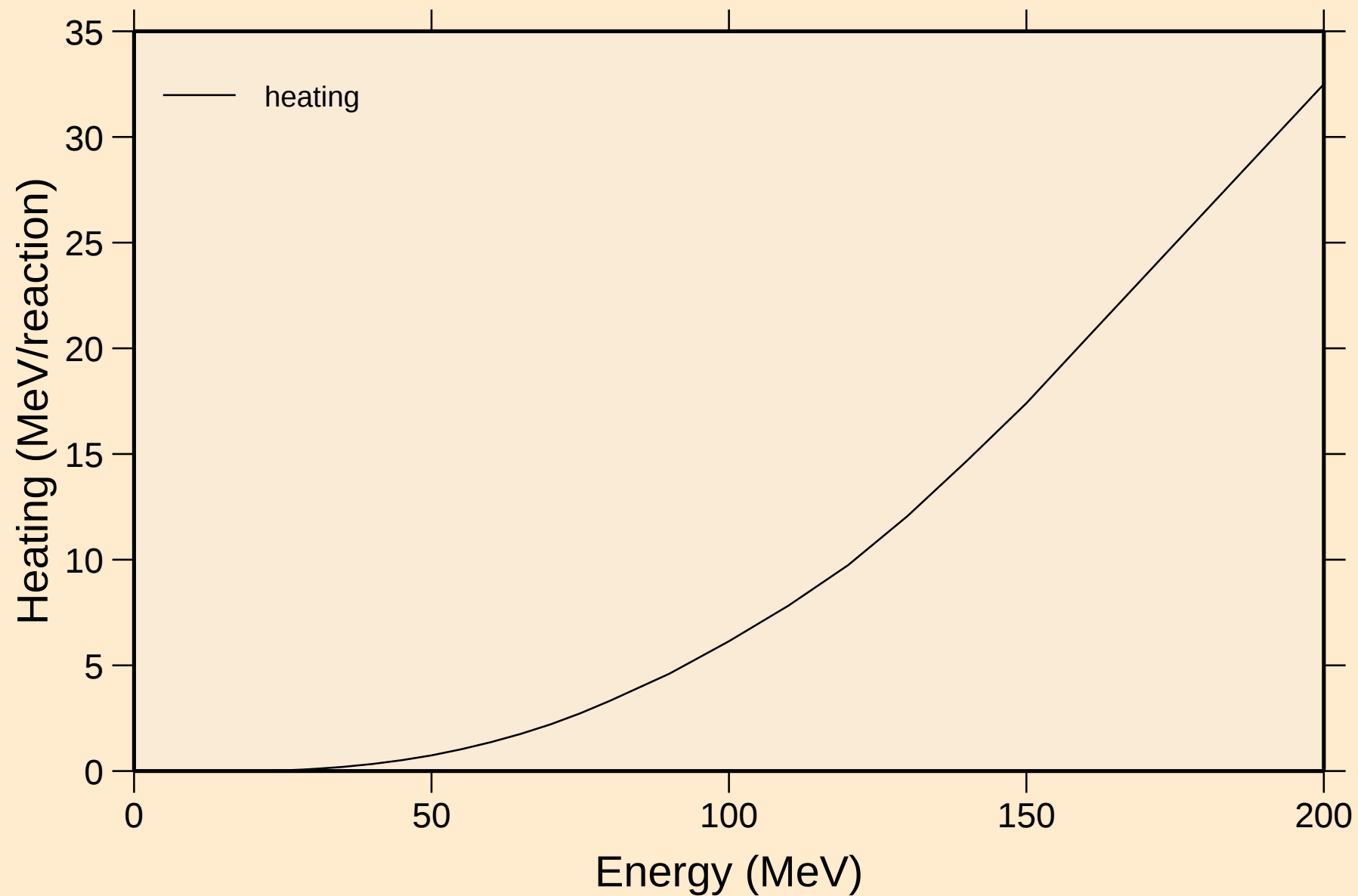
# PT190 HELION ACER TENDL-2023 LIBRARY; T=0.K

## Principal cross sections



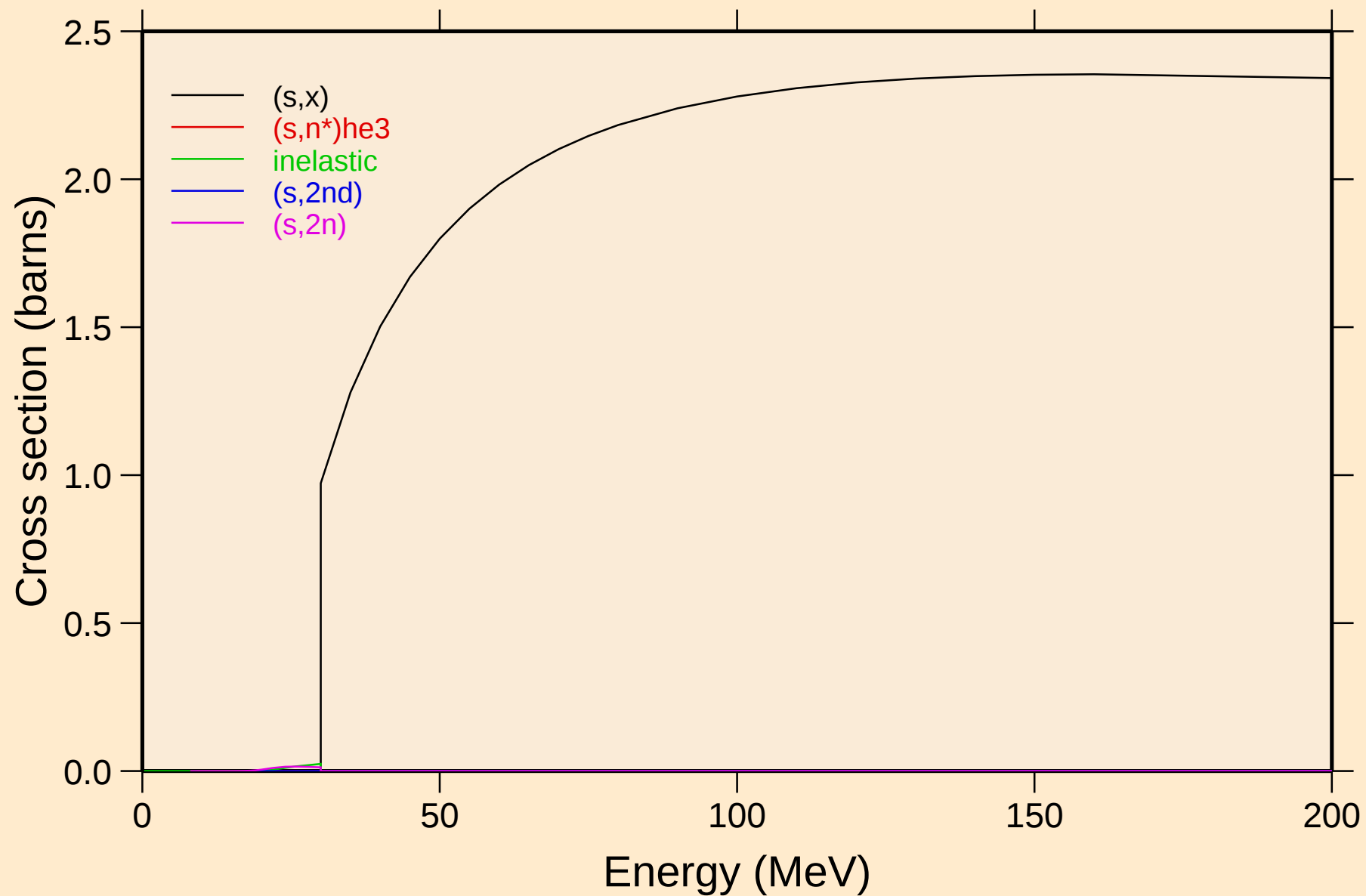
PT190 HELION ACER TENDL-2023 LIBRARY; T=0.K

Heating



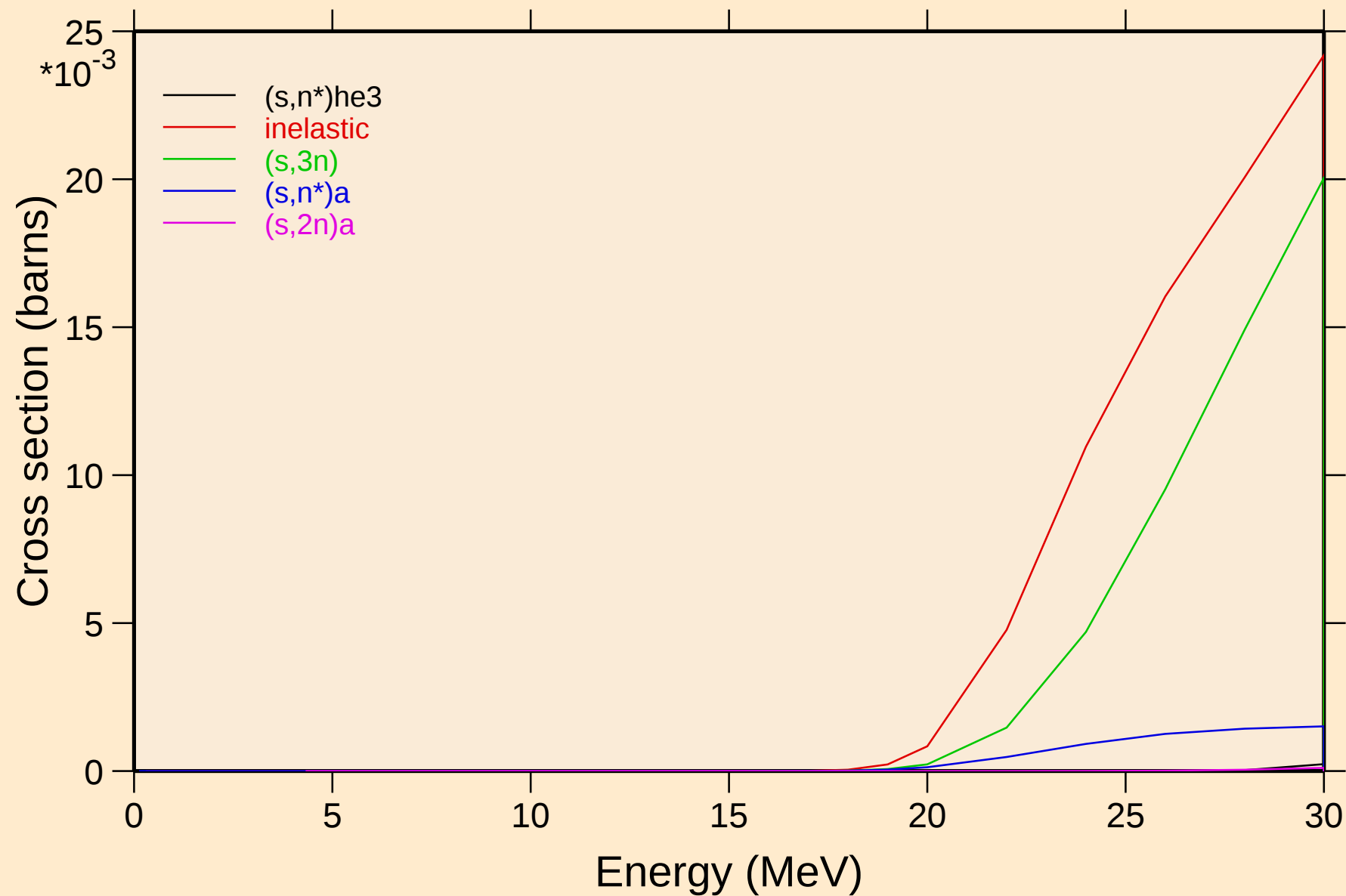
# PT190 HELION ACER TENDL-2023 LIBRARY; T=0.K

## Threshold reactions



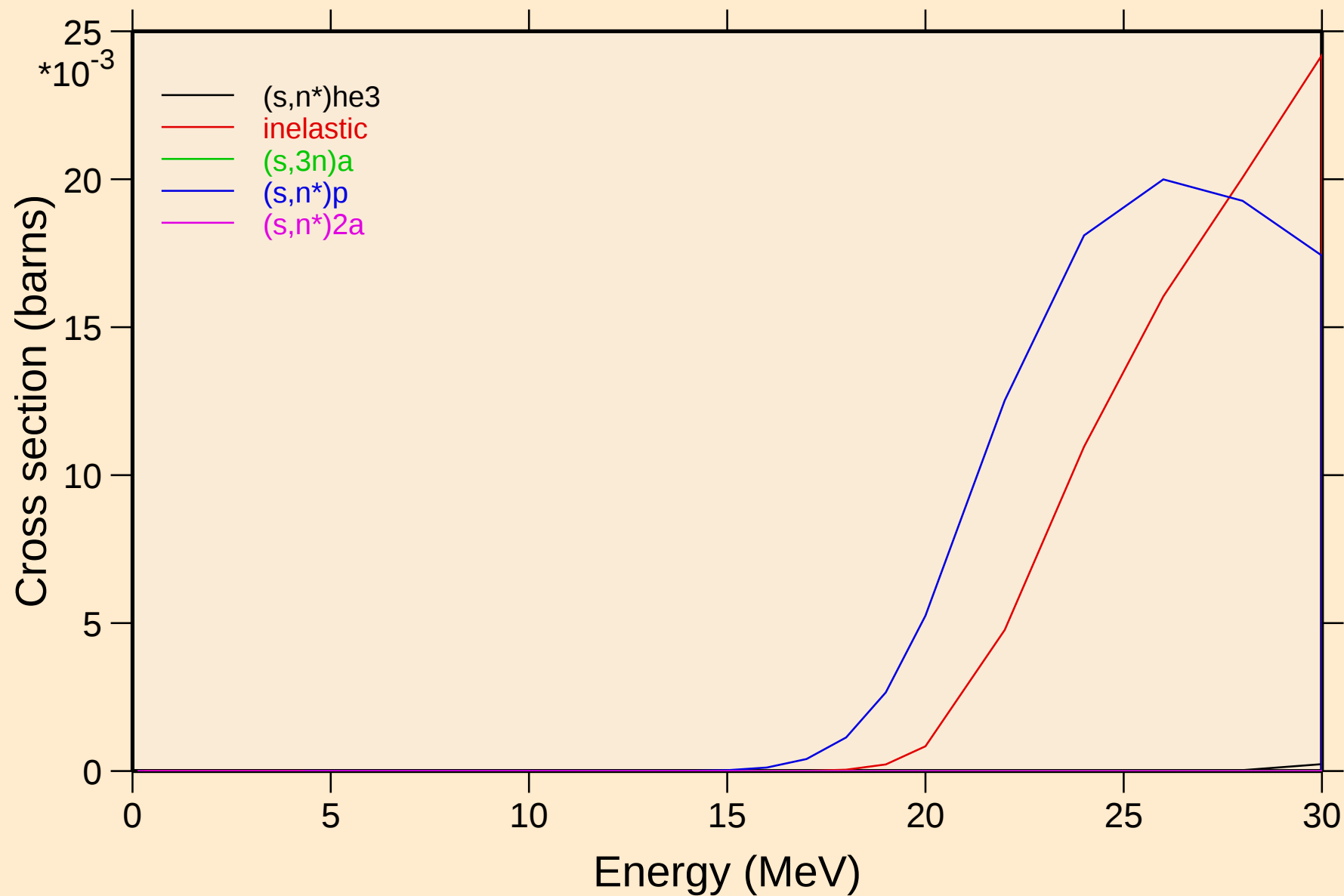
# PT190 HELION ACER TENDL-2023 LIBRARY; T=0.K

## Threshold reactions



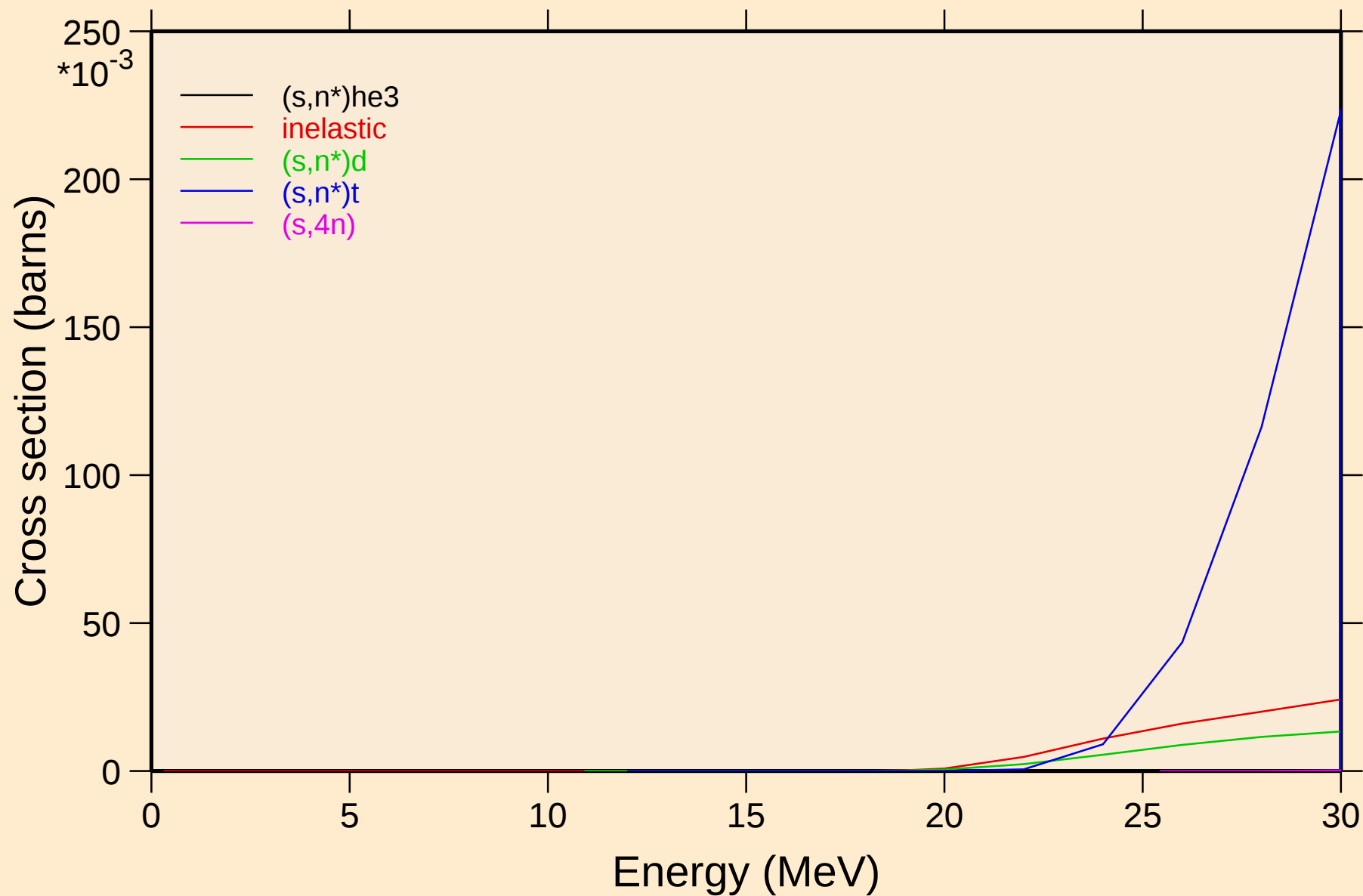
# PT190 HELION ACER TENDL-2023 LIBRARY; T=0.K

## Threshold reactions



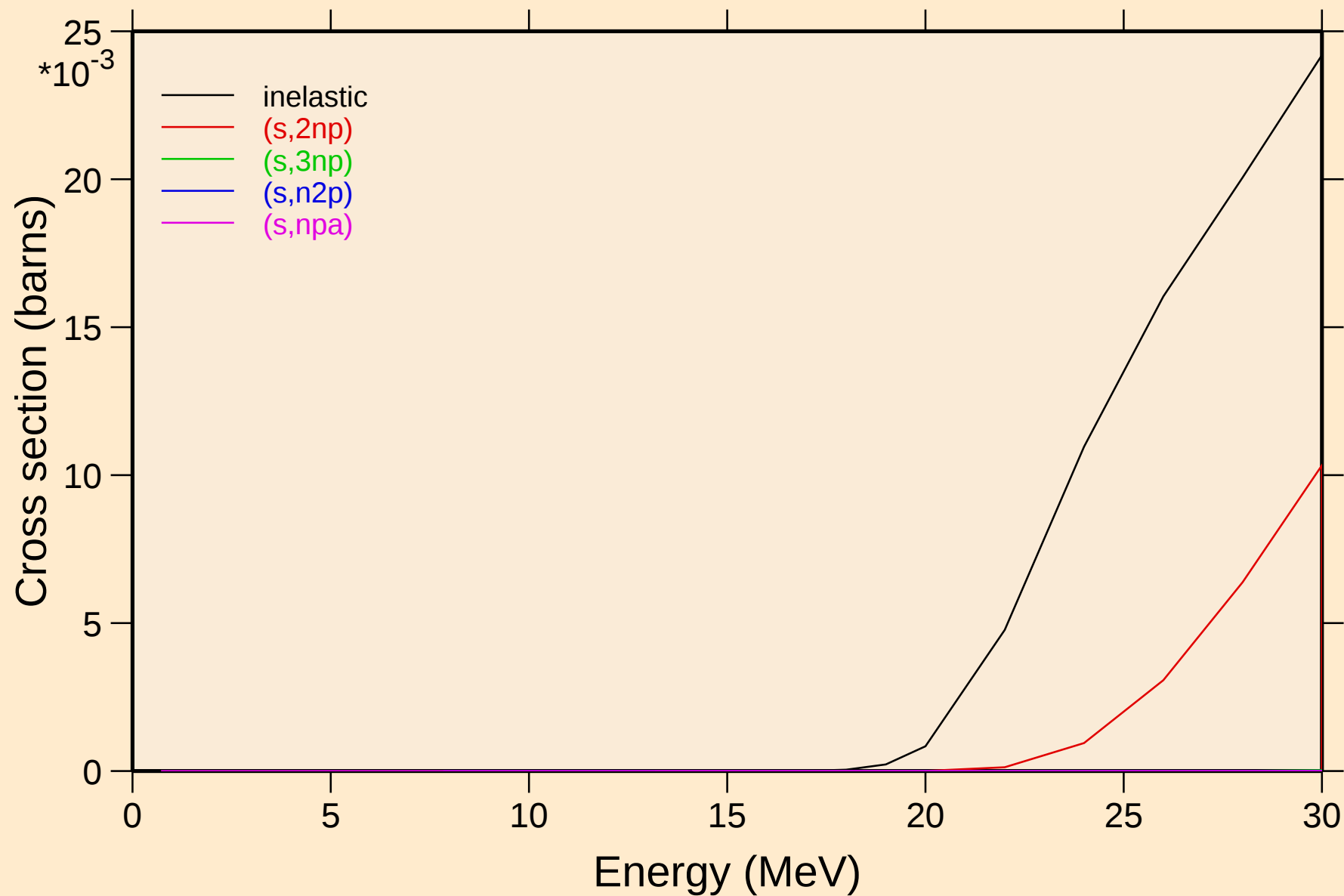
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## Threshold reactions



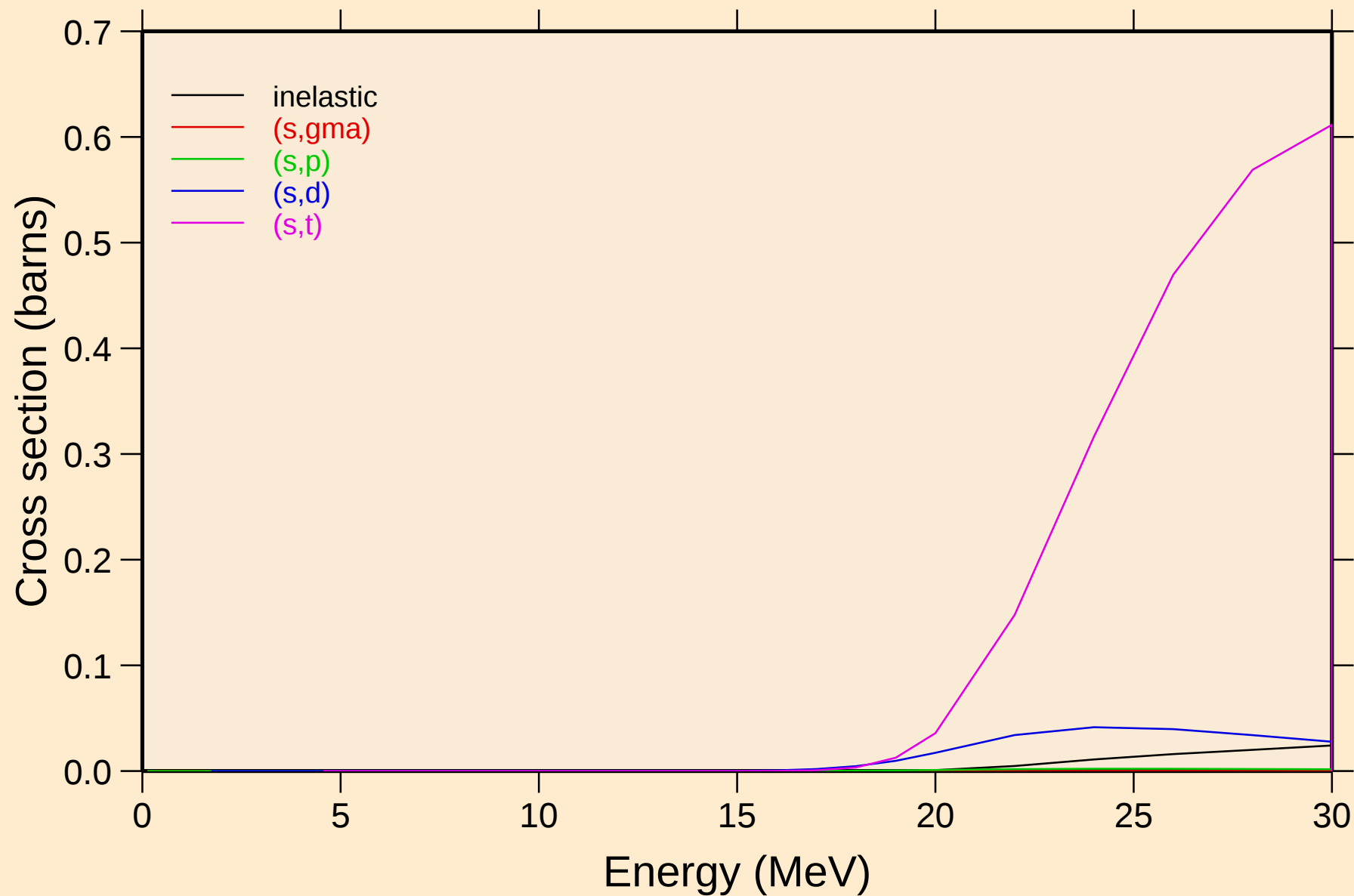
# PT190 HELION ACER TENDL-2023 LIBRARY; T=0.K

## Threshold reactions



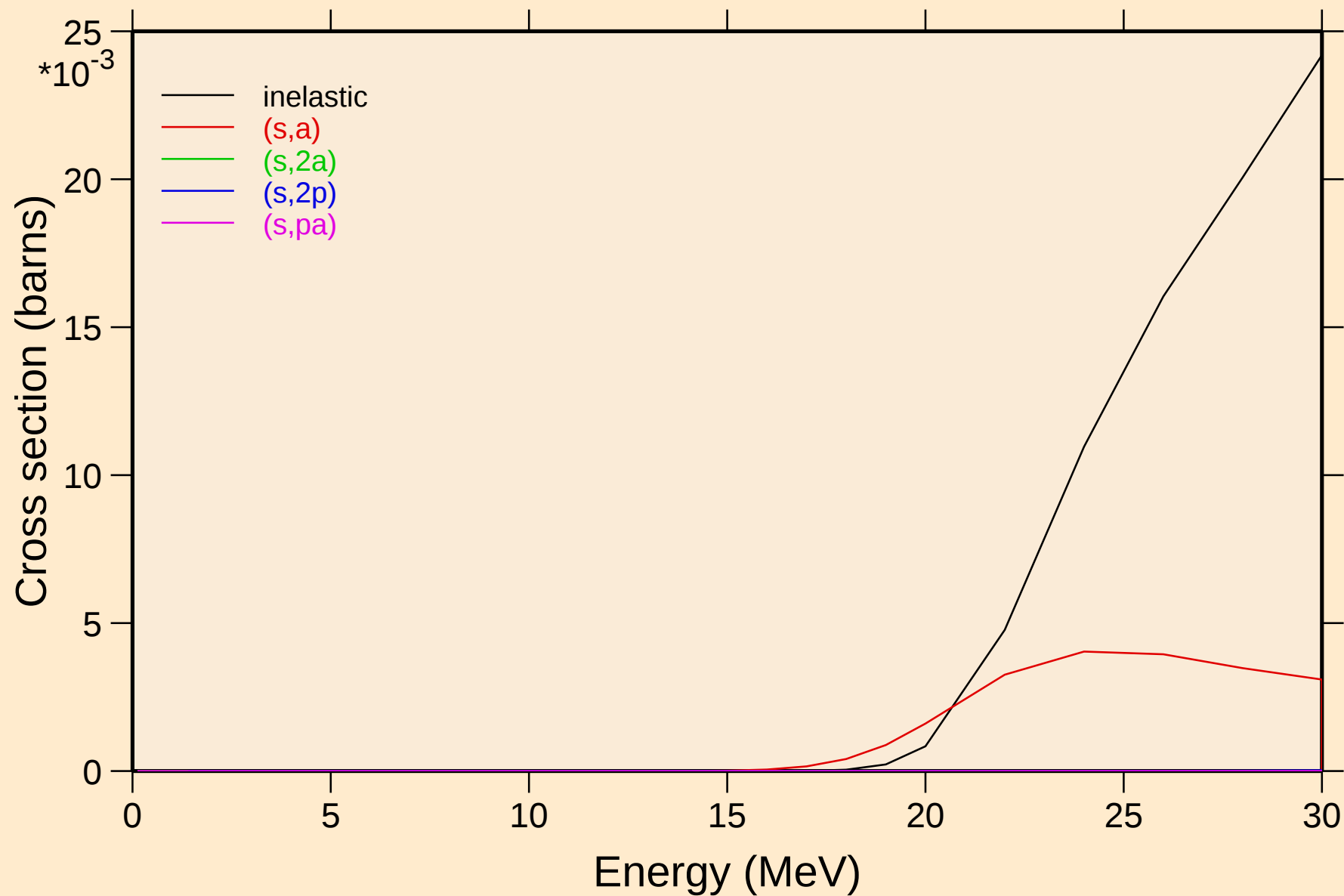
# PT190 HELION ACER TENDL-2023 LIBRARY; T=0.K

## Threshold reactions



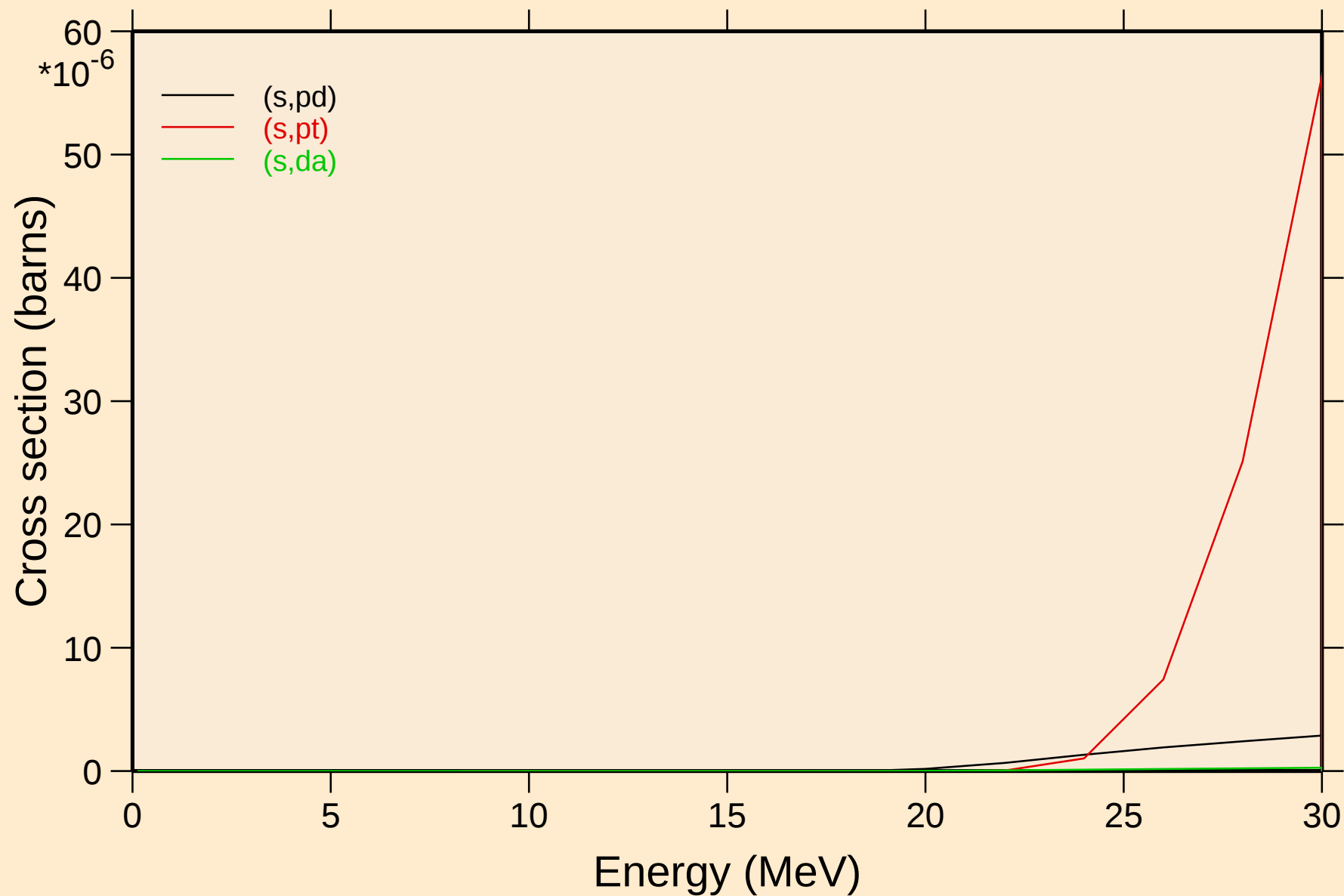
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## Threshold reactions

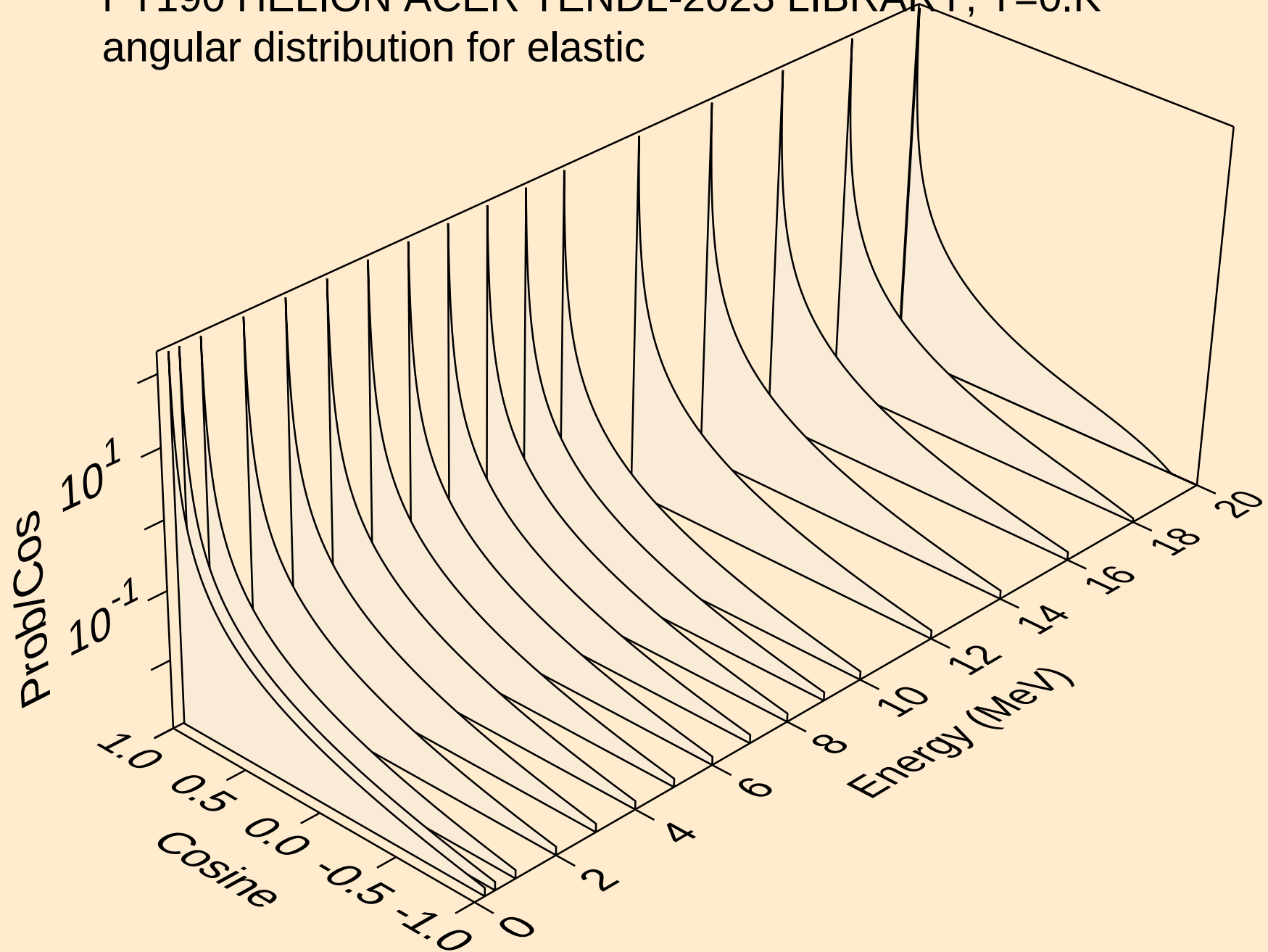


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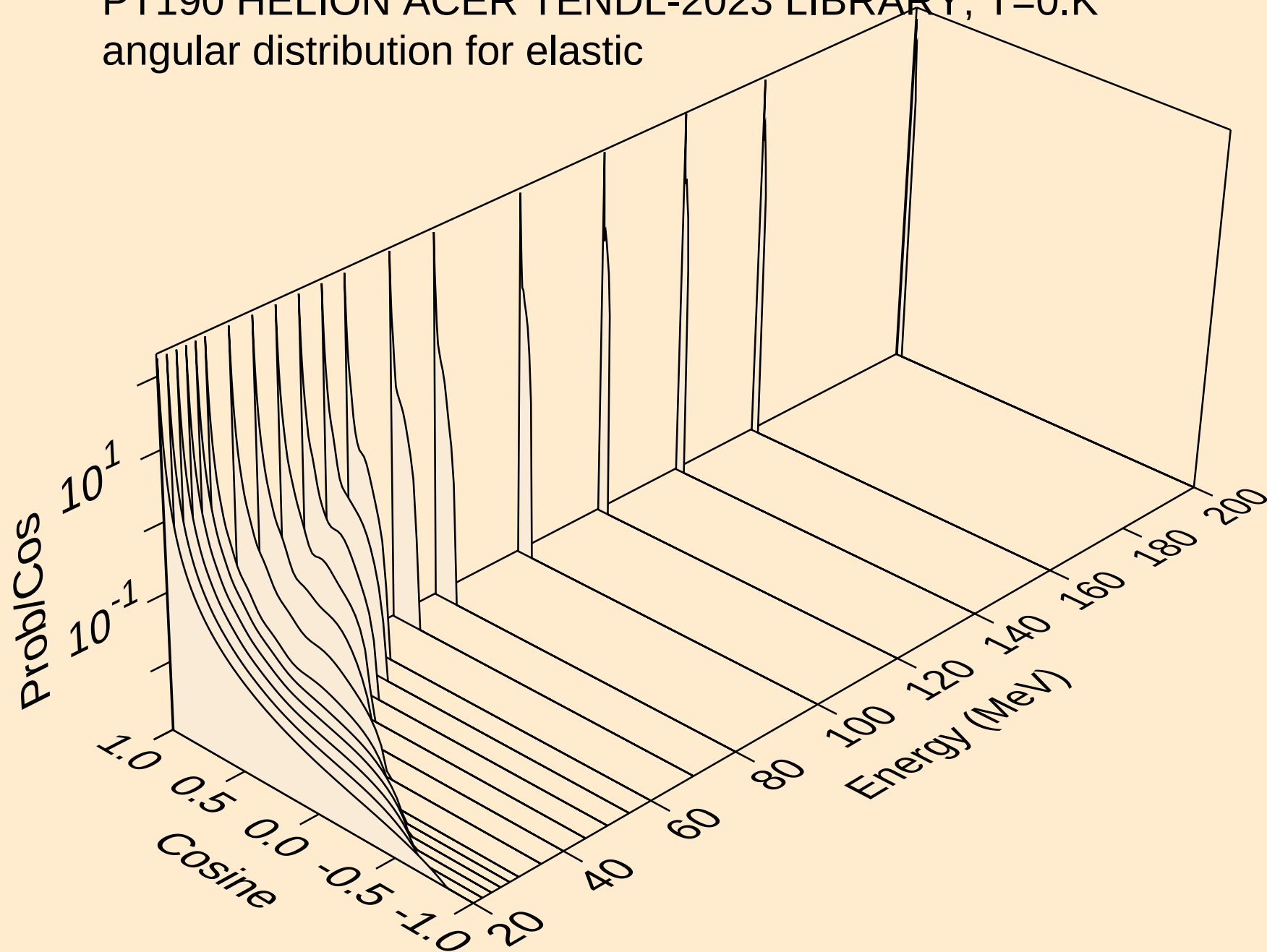
## Threshold reactions



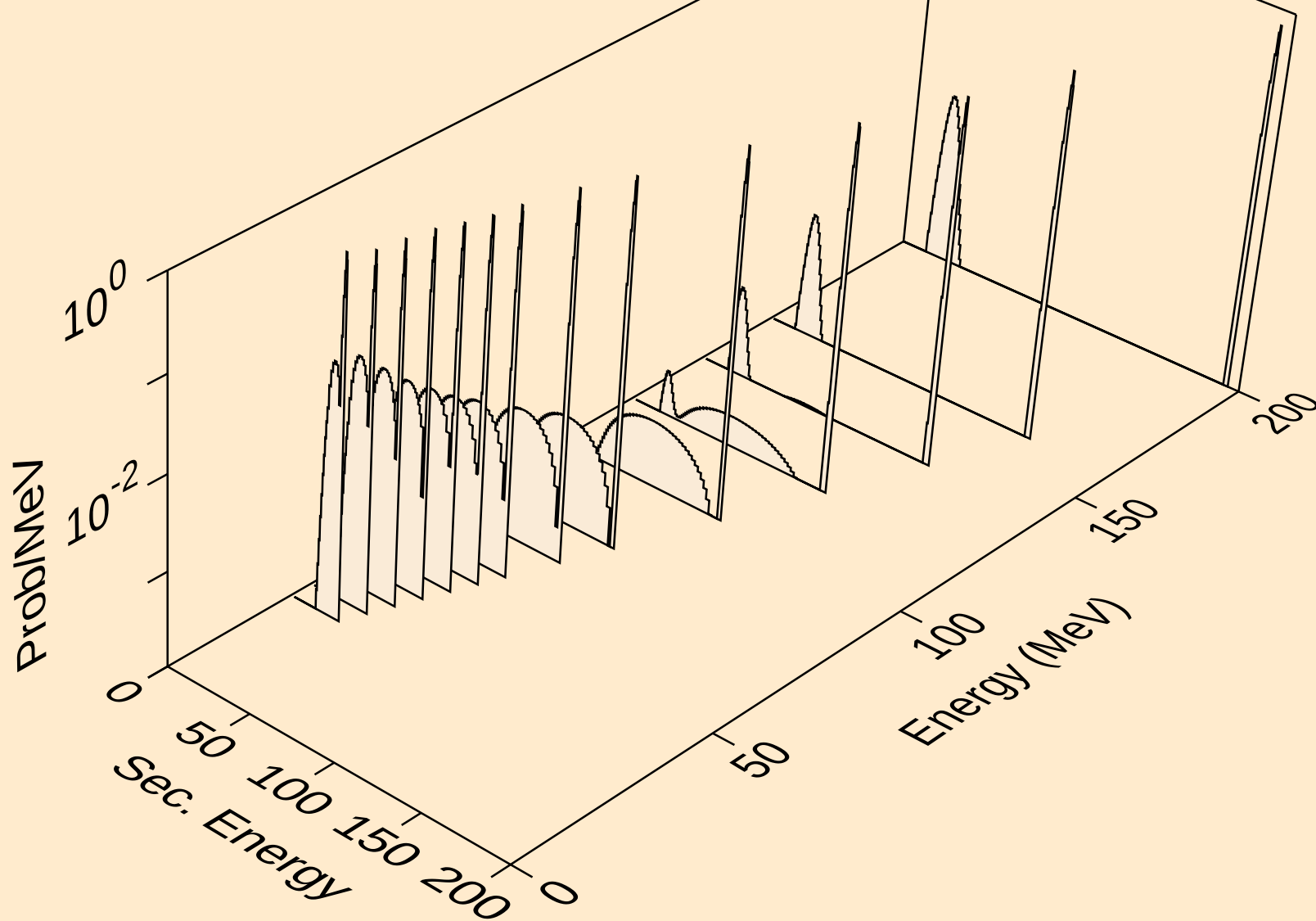
PT190 HELION ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for elastic



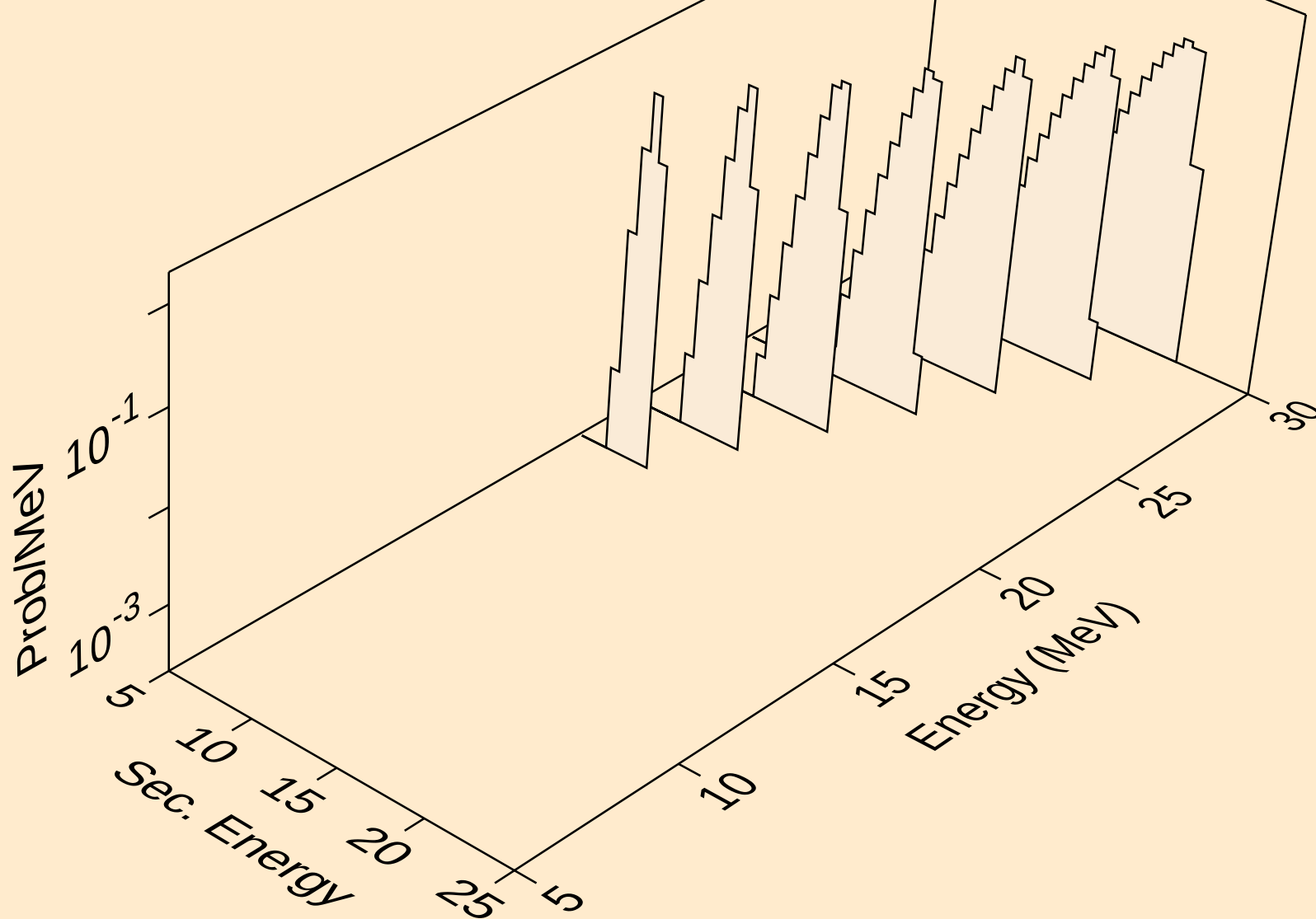
PT190 HELION ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for elastic



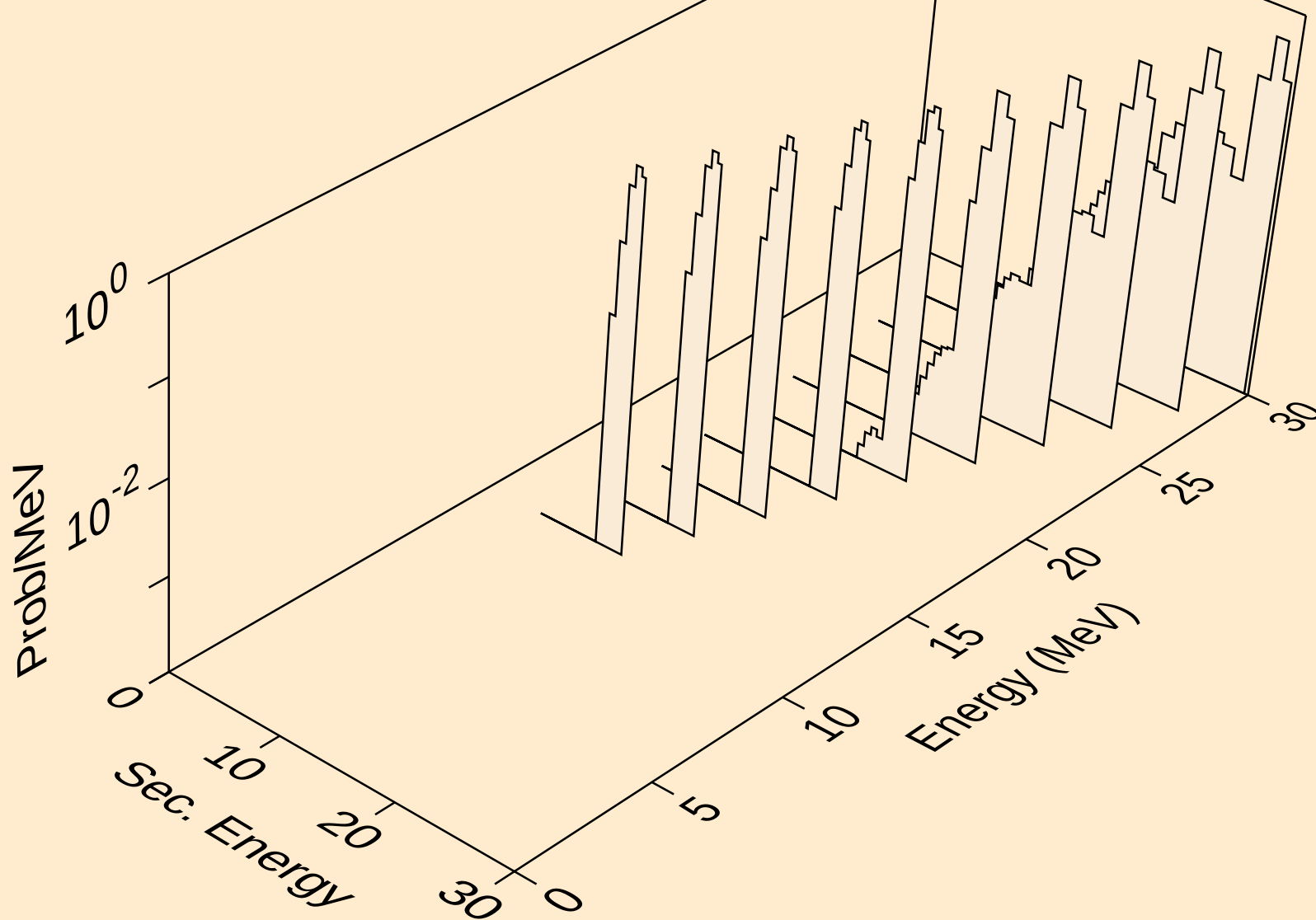
PT190 HELION ACER TENDL-2023 LIBRARY; T=0.K  
He-3 emission for (s,x)



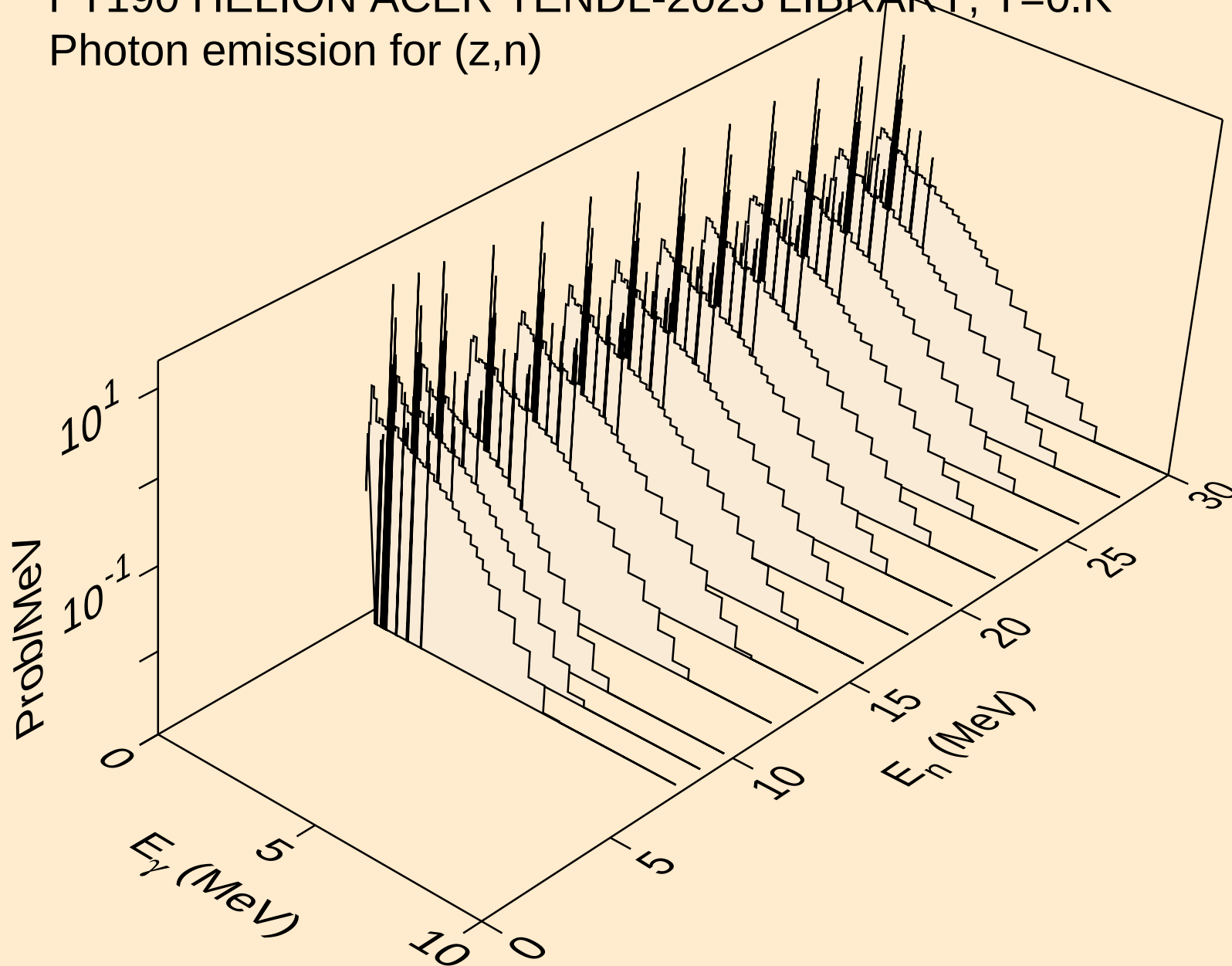
PT190 HELION ACER TENDL-2023 LIBRARY; T=0.K  
He-3 emission for (s,n\*)he3



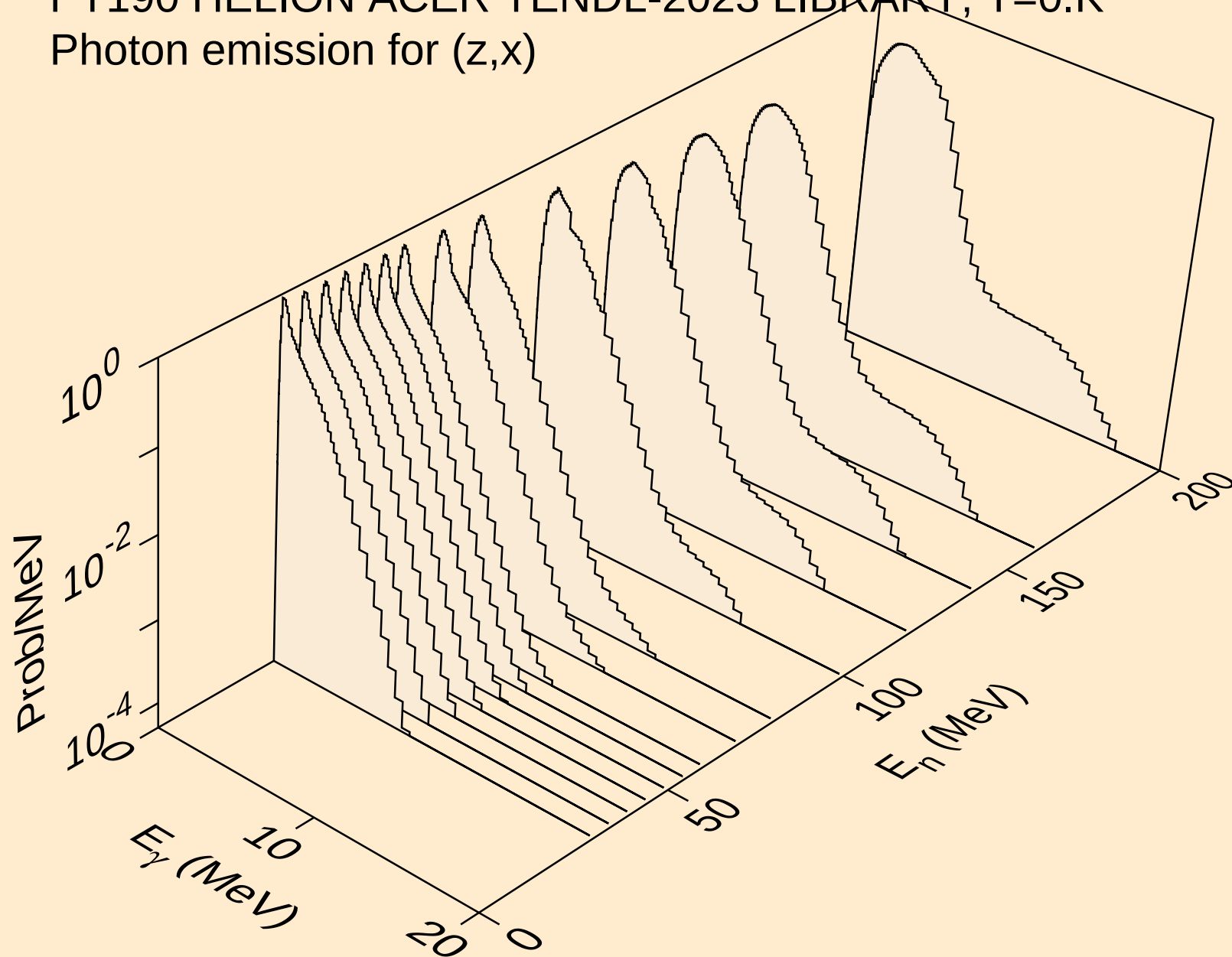
PT190 HELION ACER TENDL-2023 LIBRARY; T=0.K  
He-3 emission for inelastic



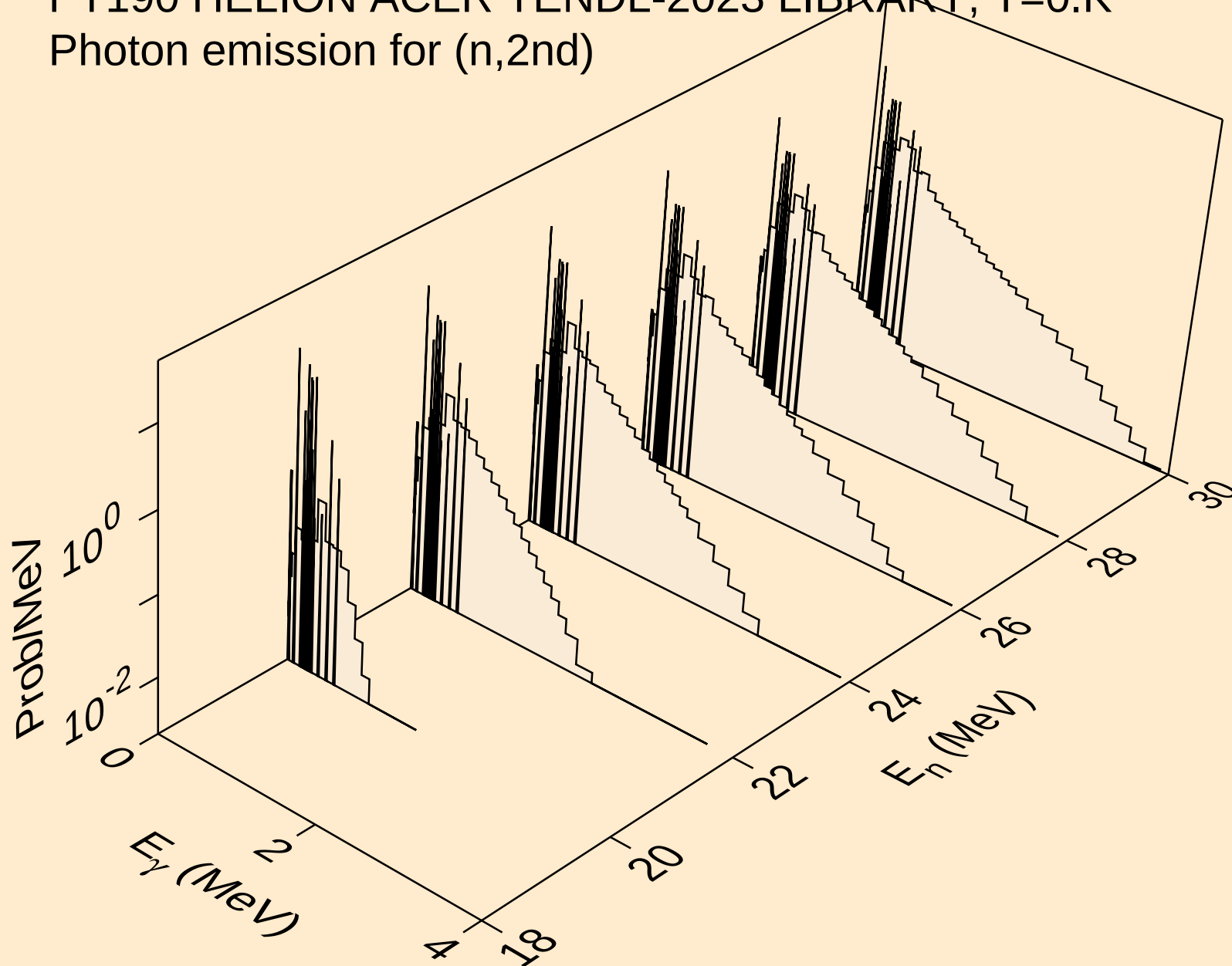
PT190 HELION ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (z,n)



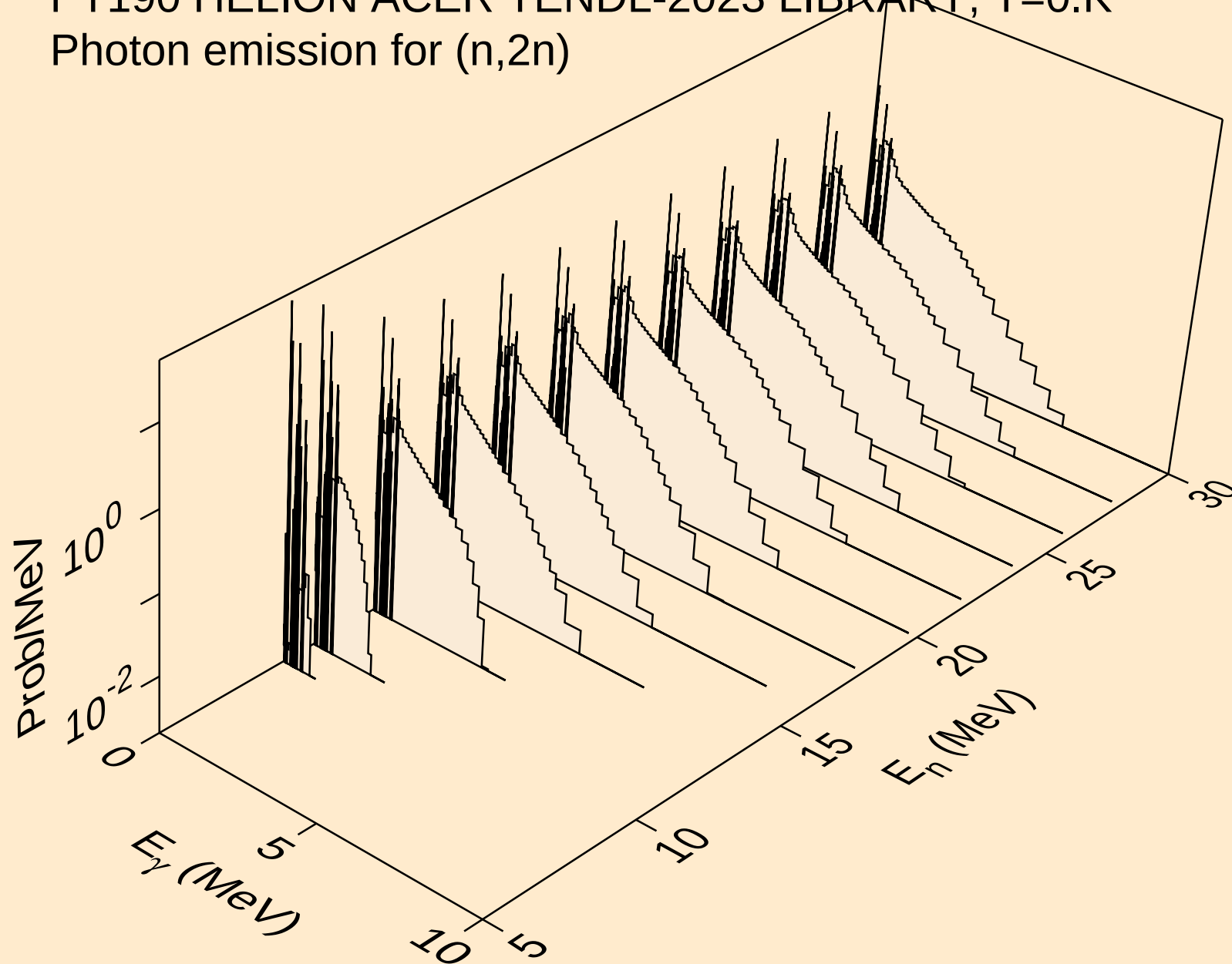
PT190 HELION ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (z,x)



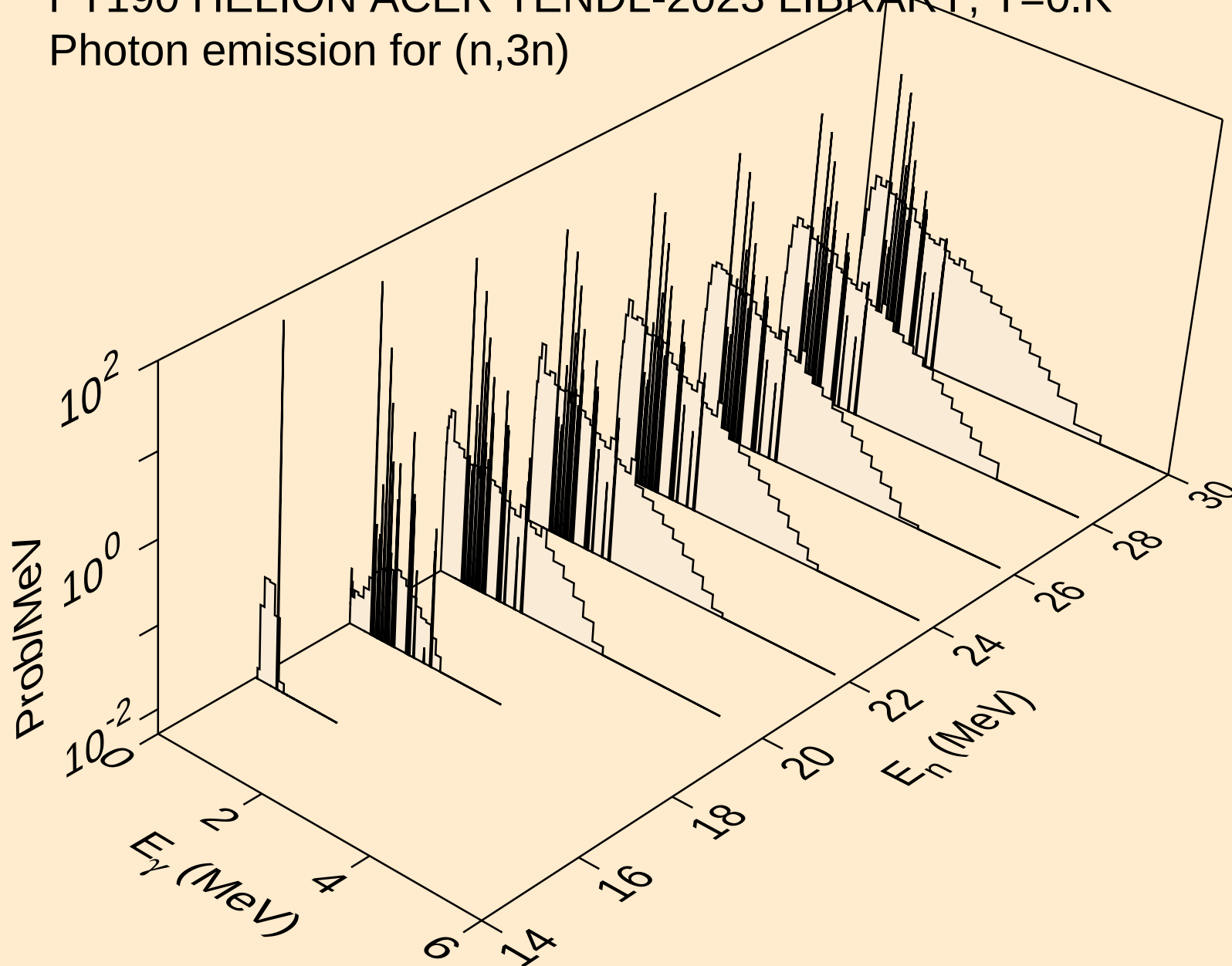
PT190 HELION ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2nd)



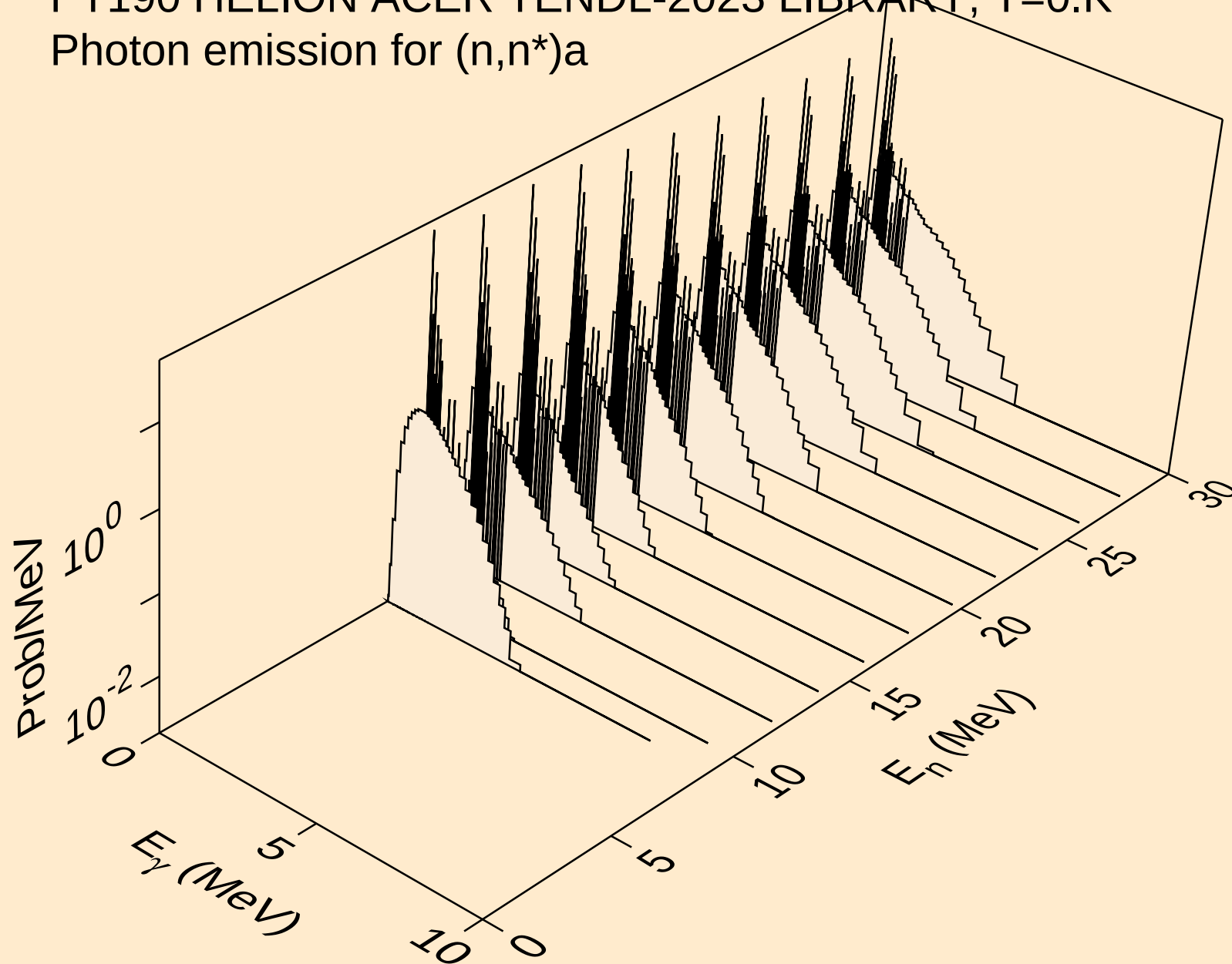
PT190 HELION ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2n)



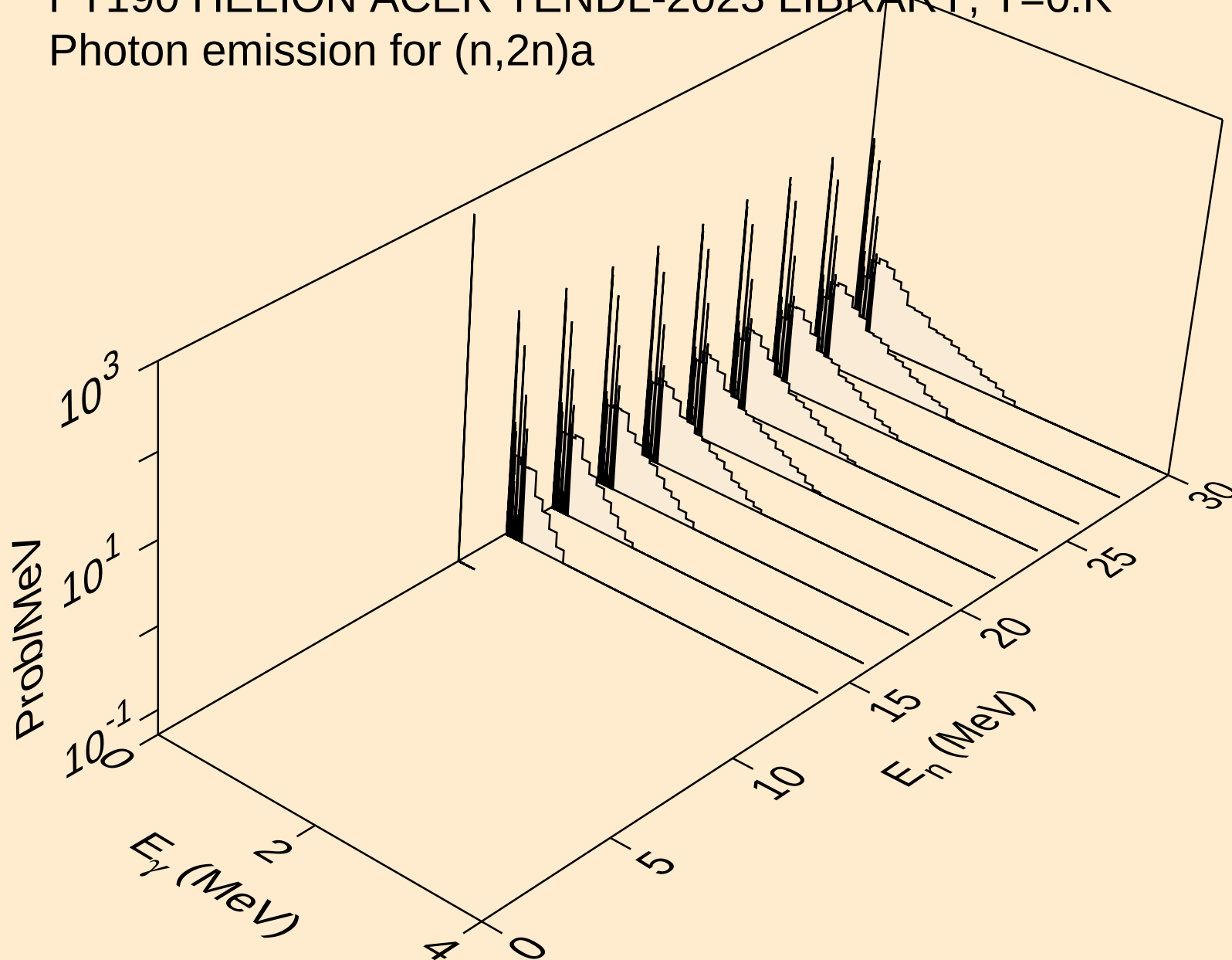
PT190 HELION ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,3n)



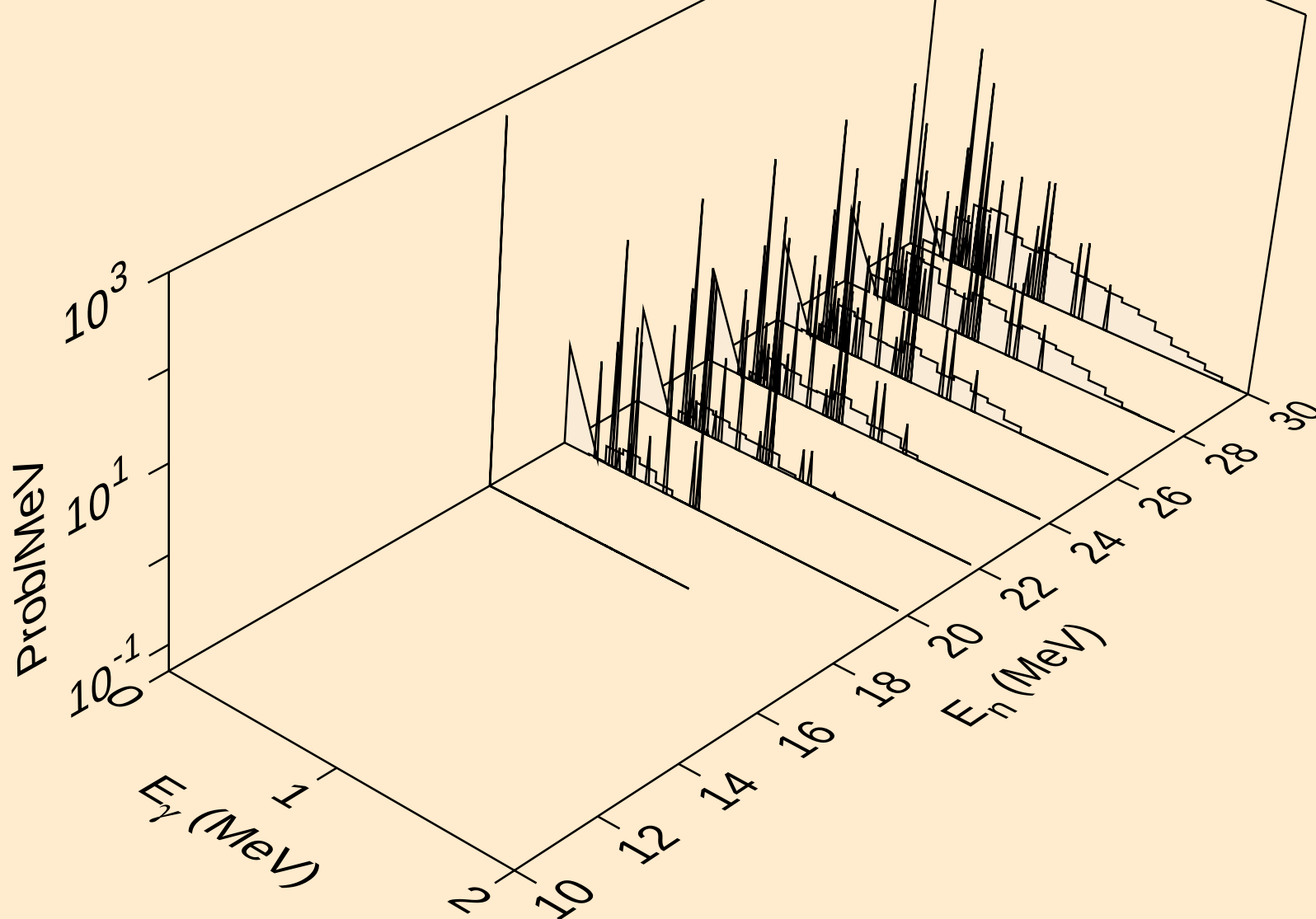
PT190 HELION ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)a



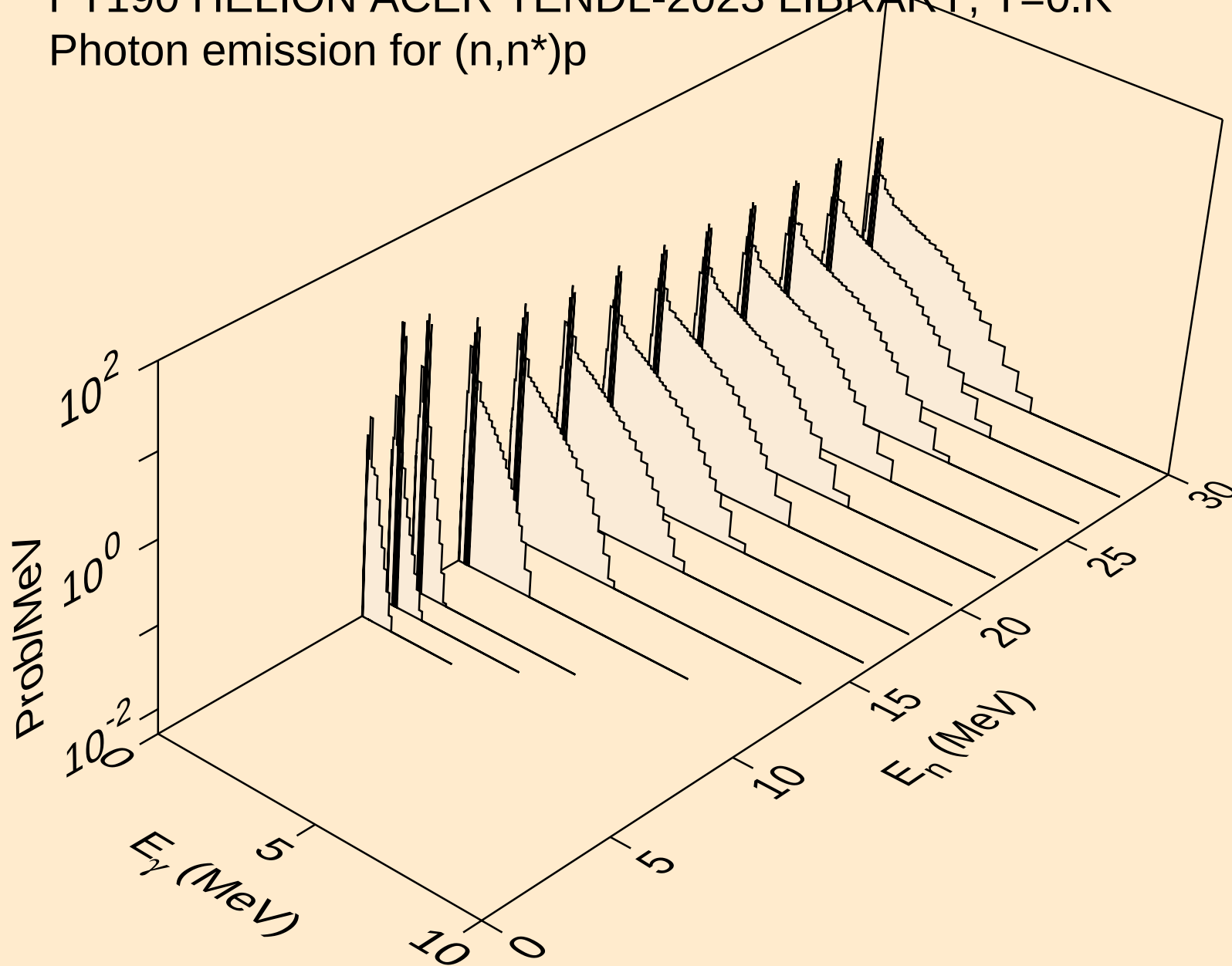
PT190 HELION ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2n) $\alpha$



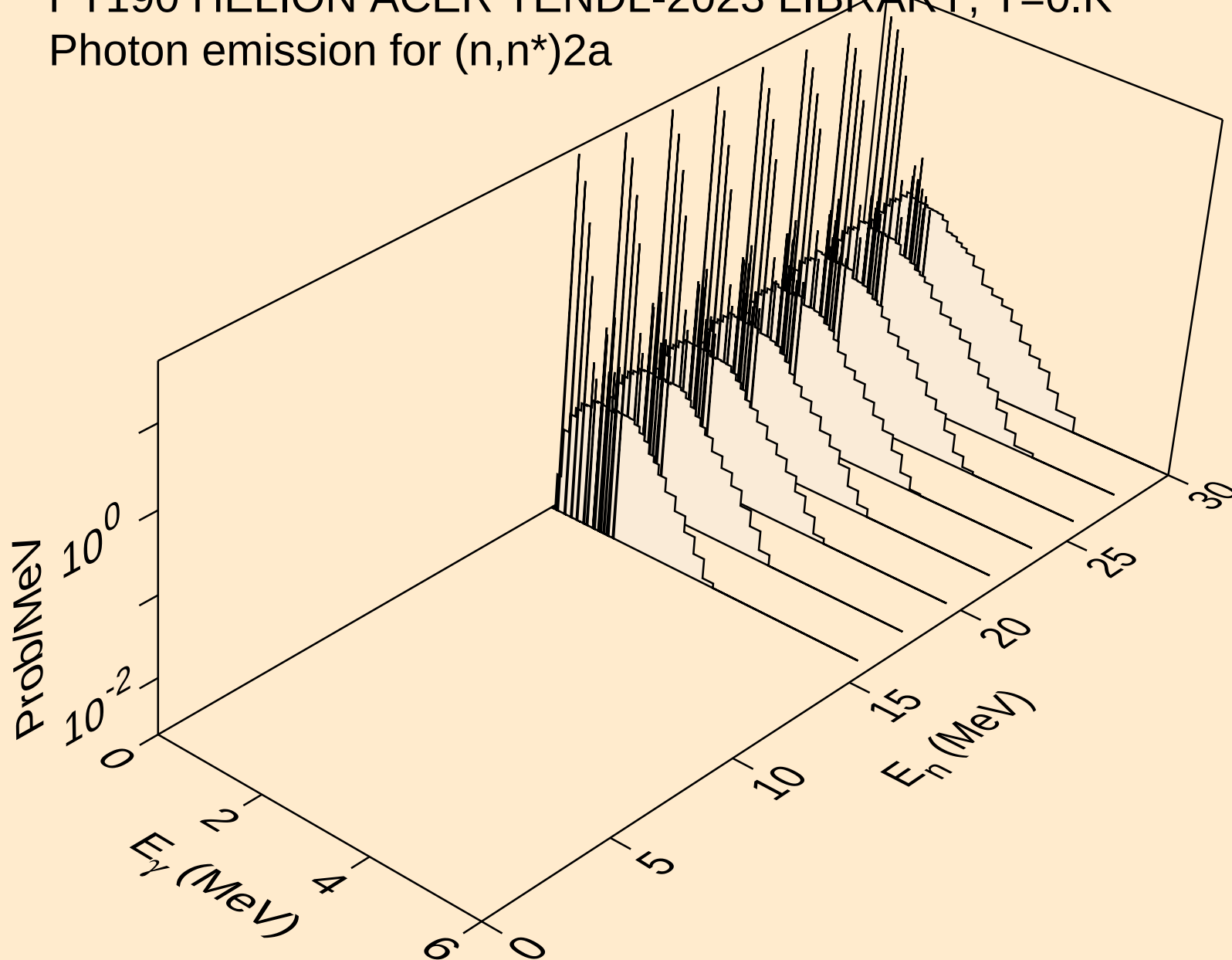
PT190 HELION ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,3n) $\alpha$



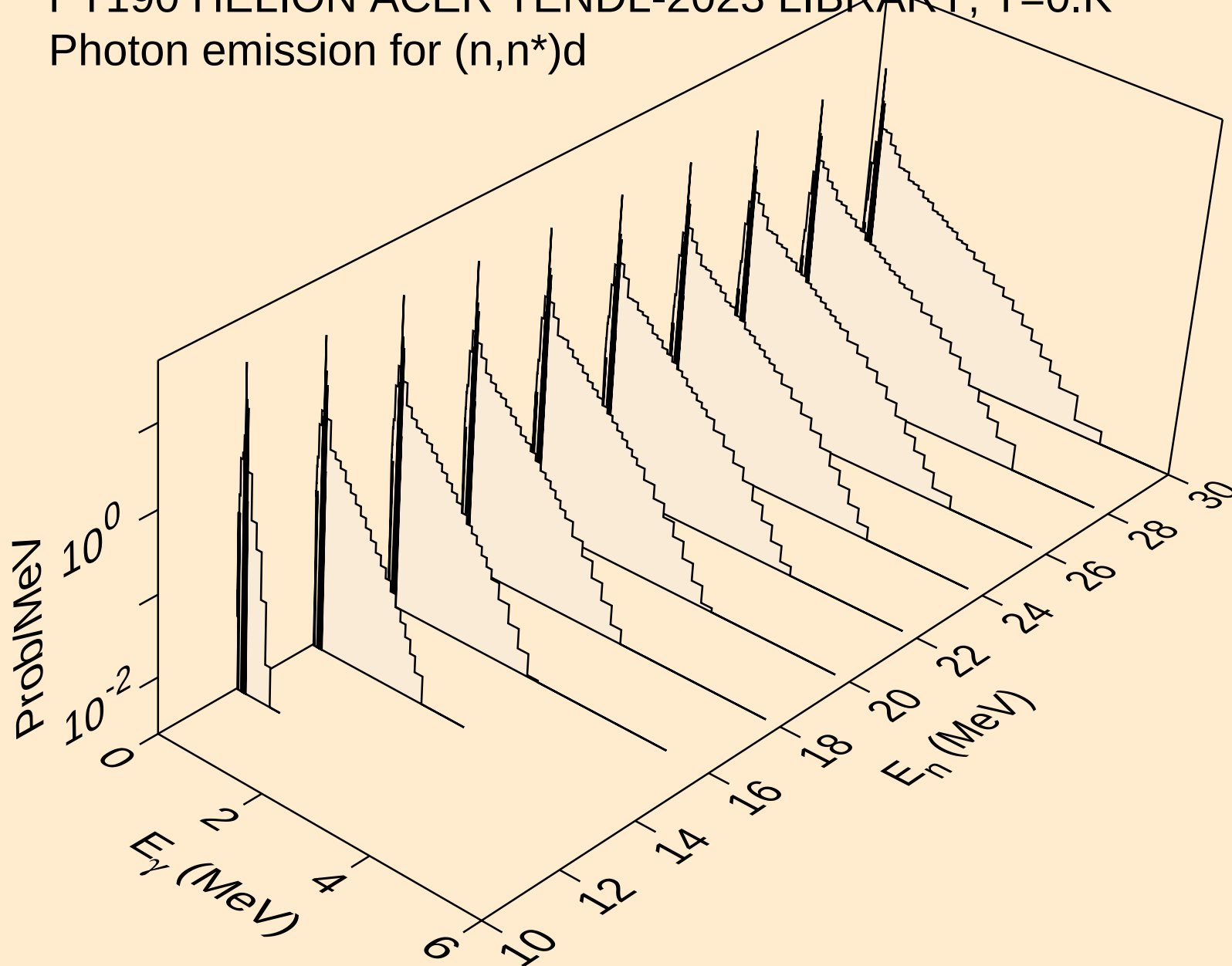
PT190 HELION ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)p



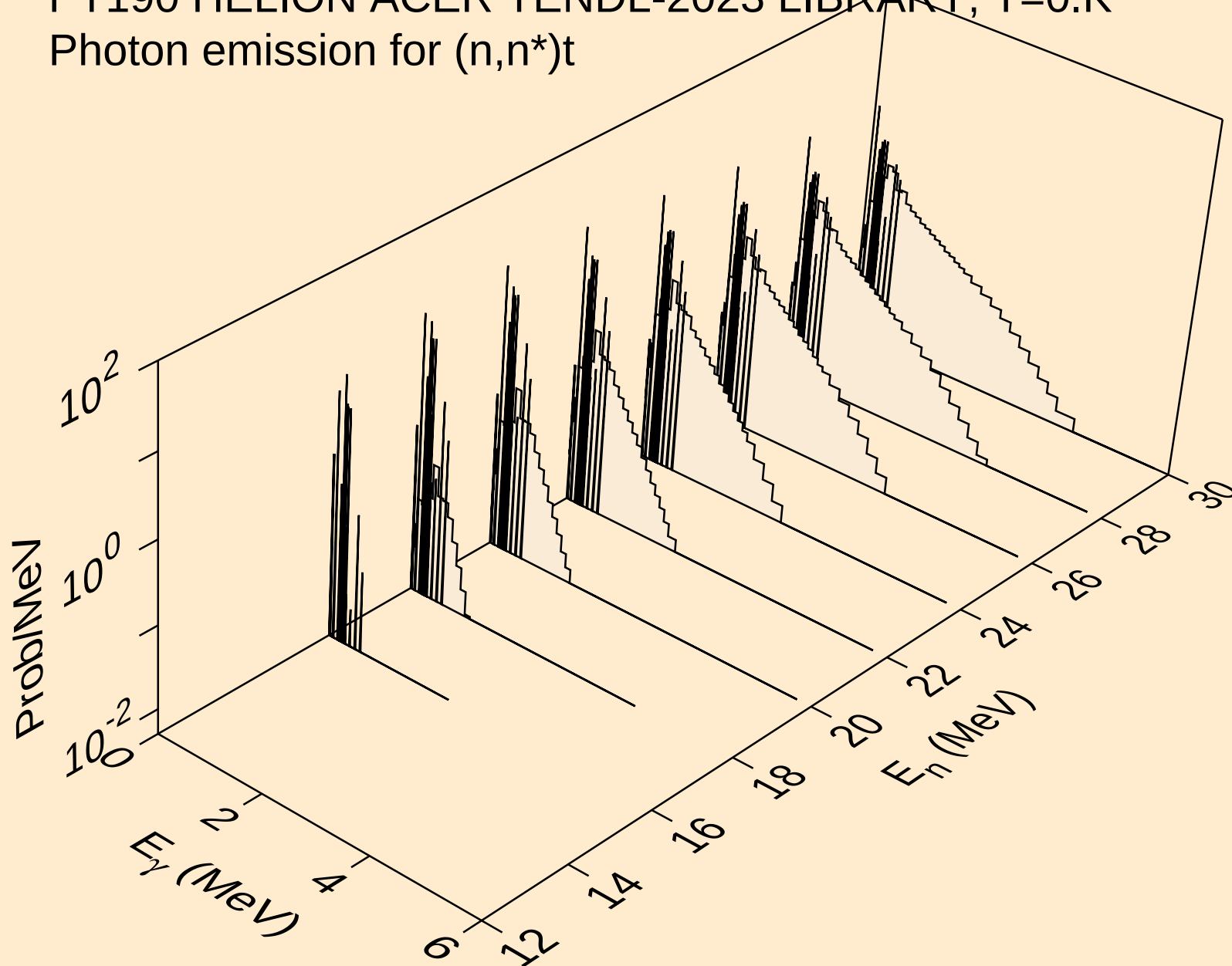
PT190 HELION ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)2a



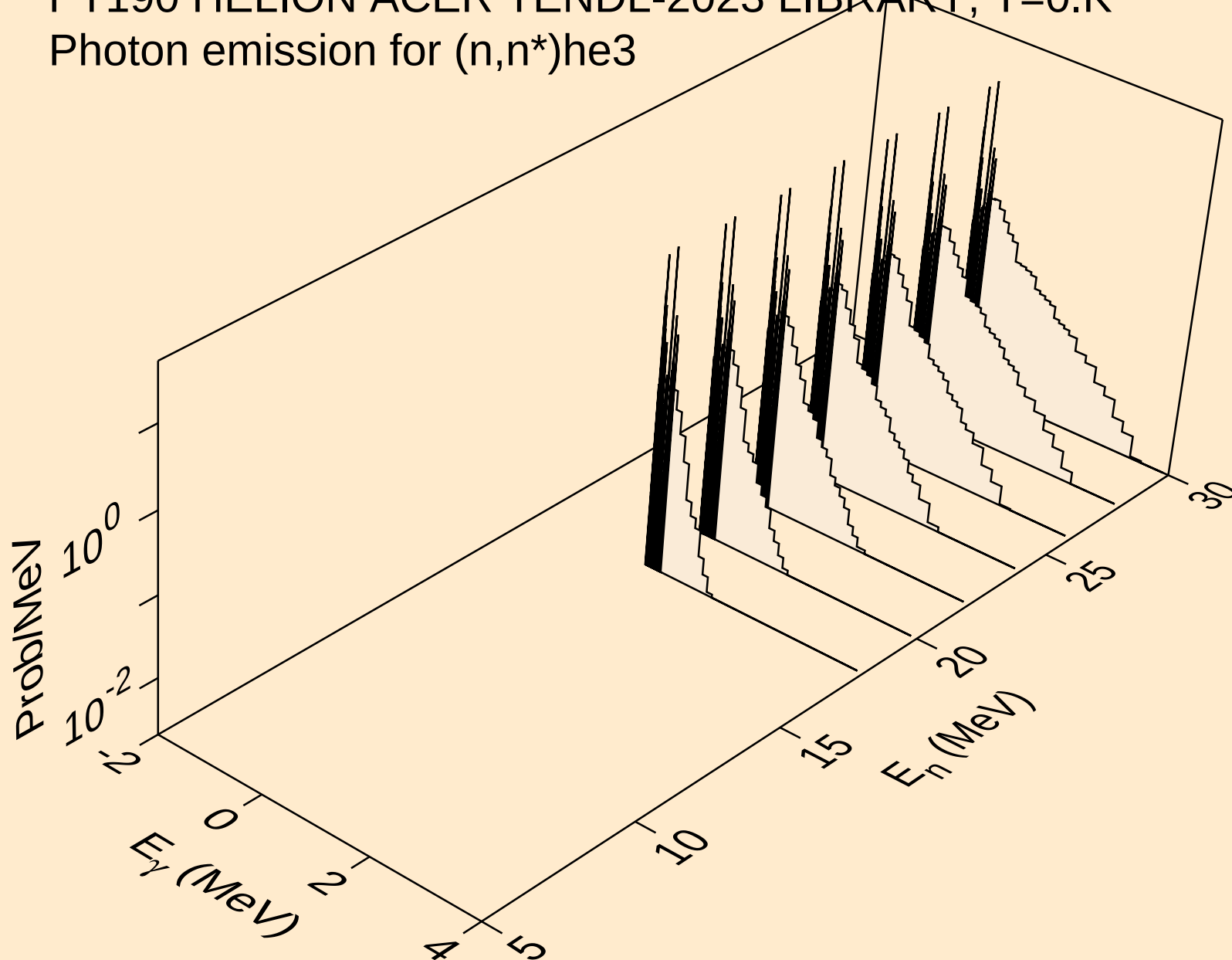
PT190 HELION ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)d



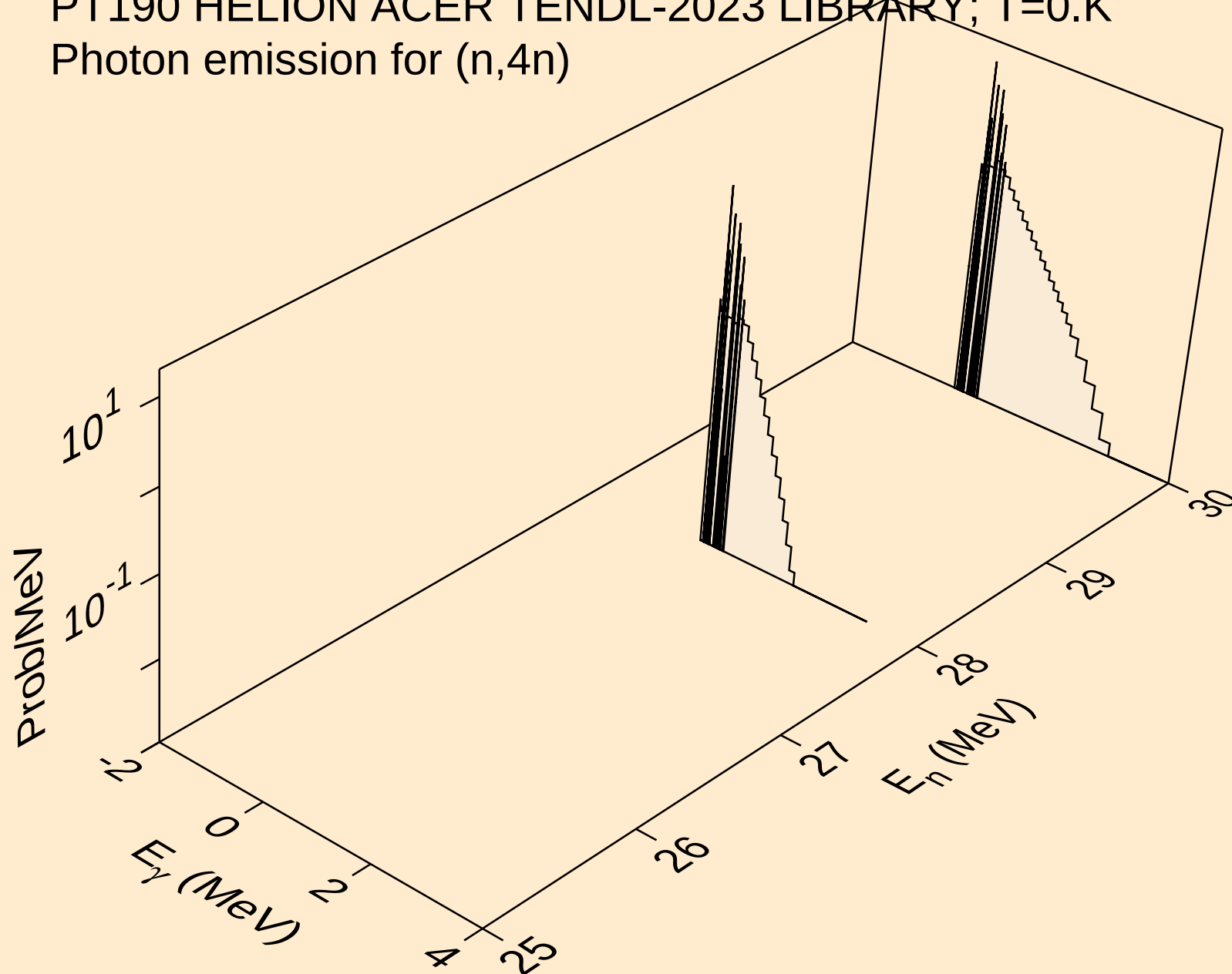
PT190 HELION ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)t



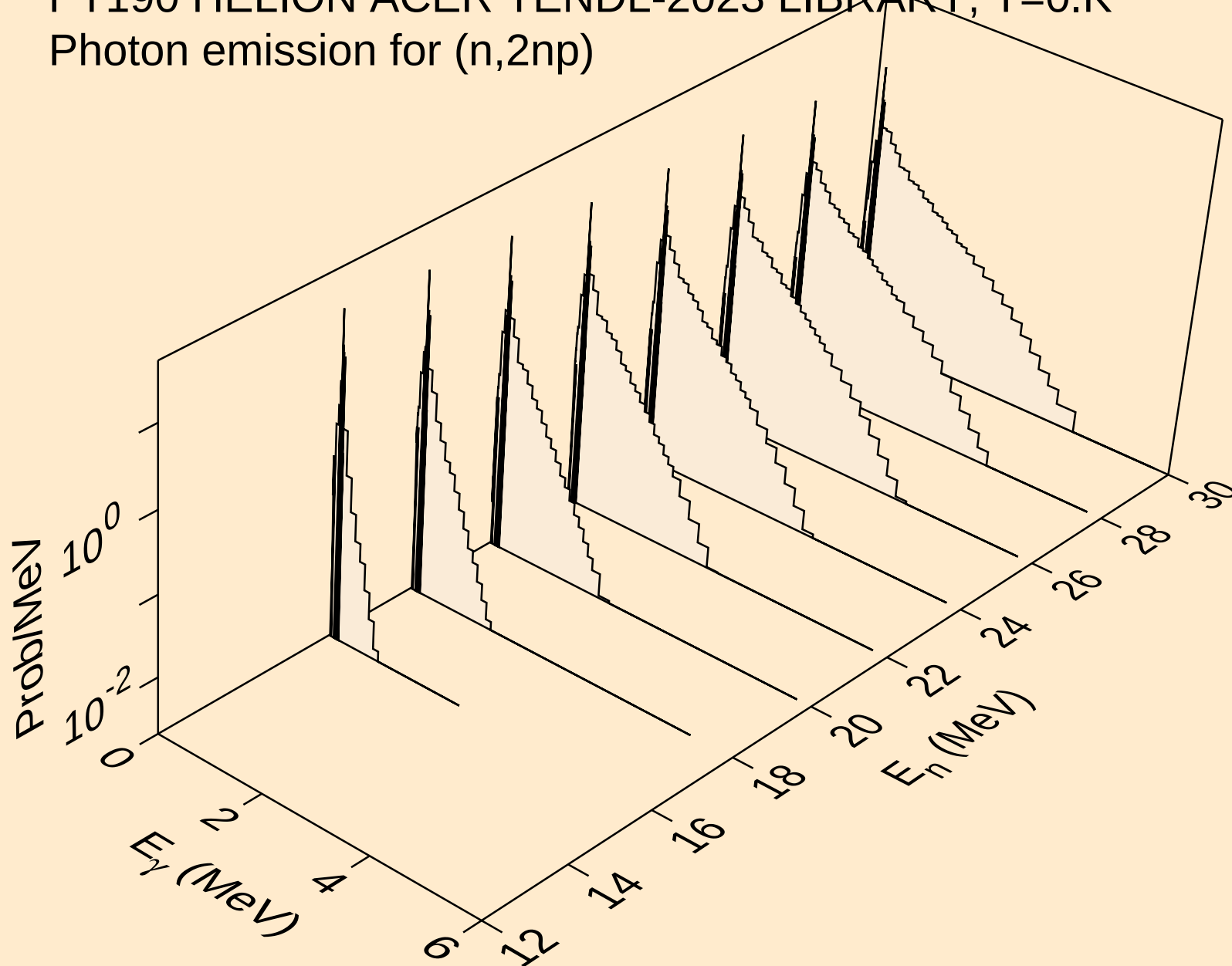
PT190 HELION ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)he3



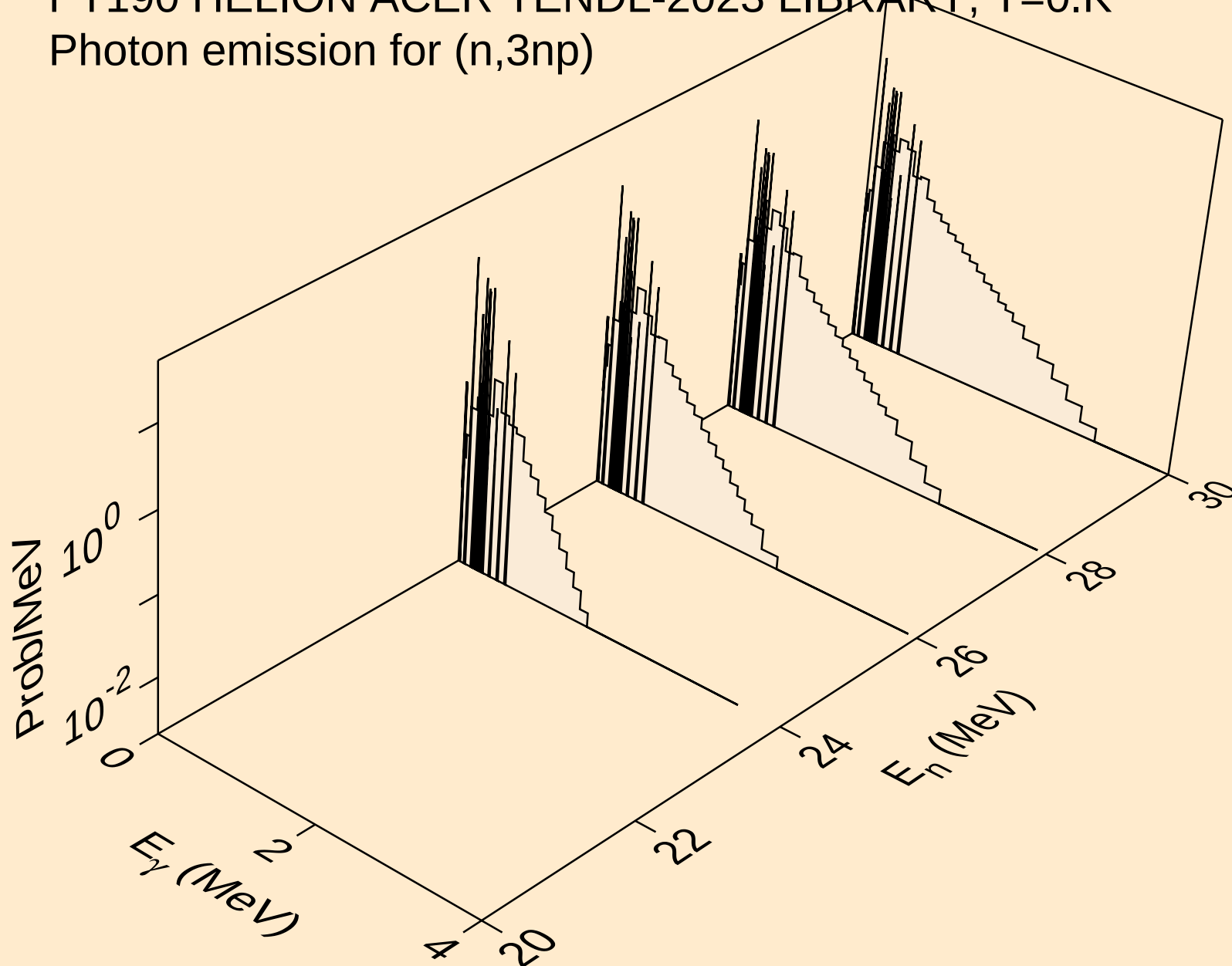
PT190 HELION ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,4n)



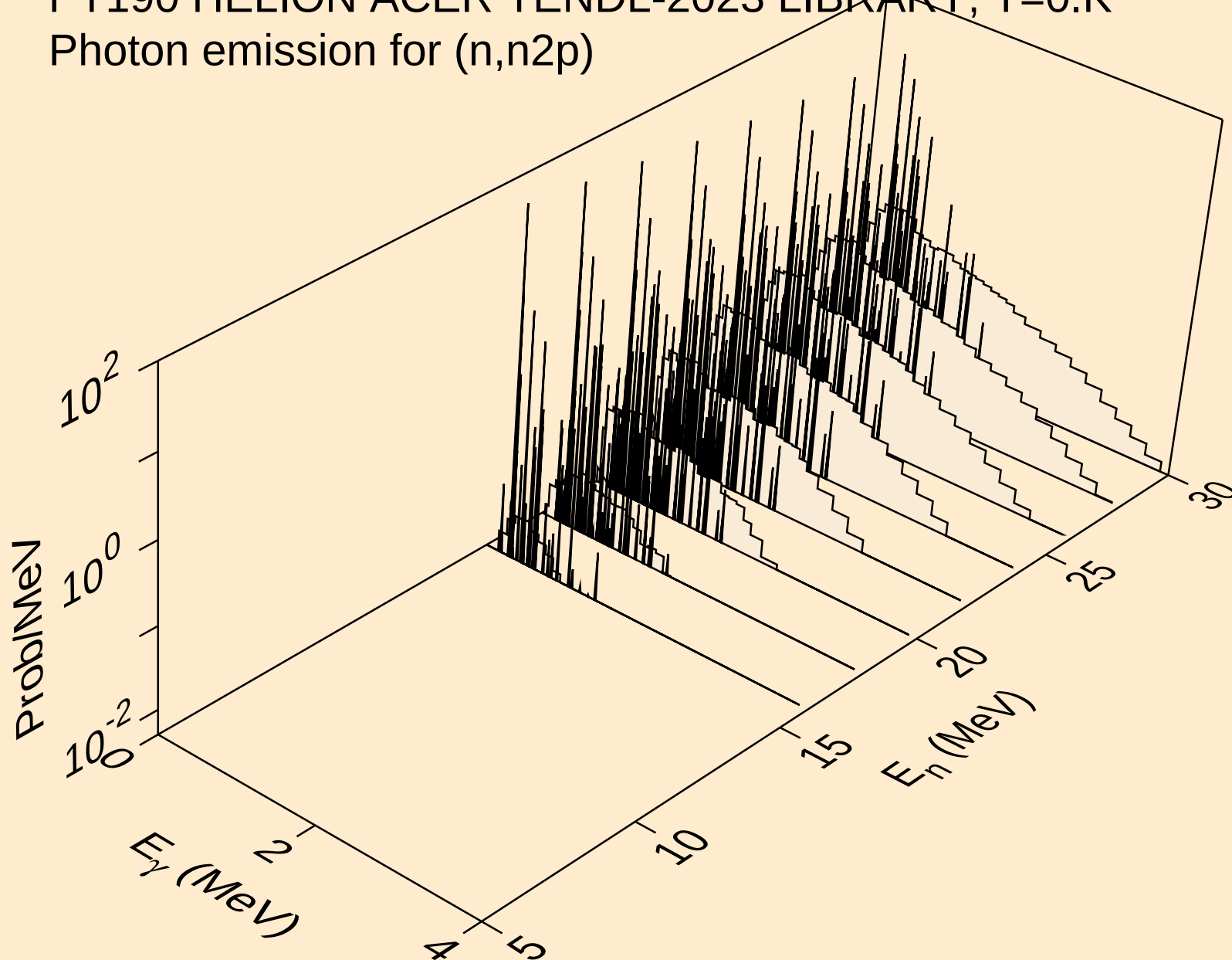
PT190 HELION ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2np)



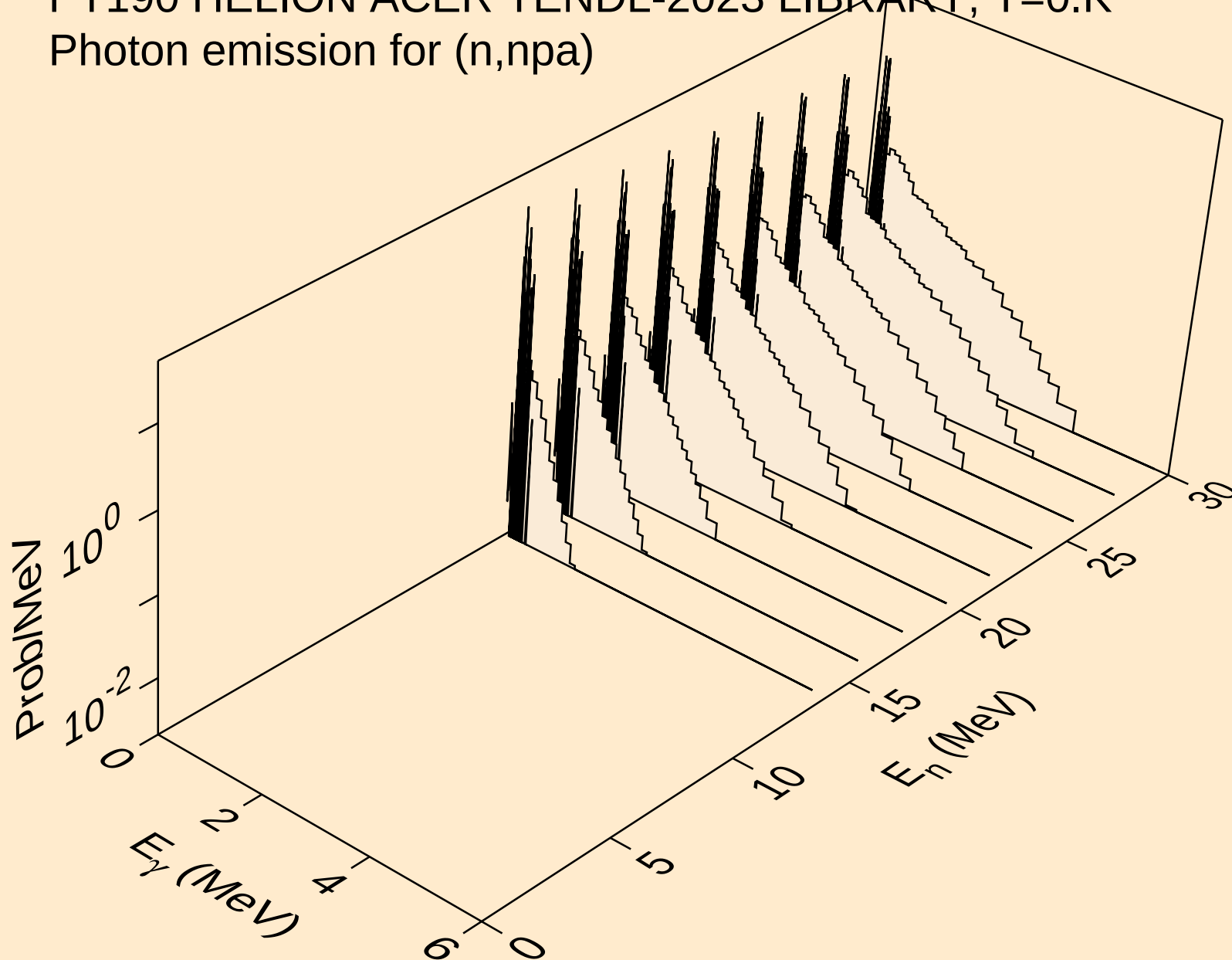
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Photon emission for (n,3np)



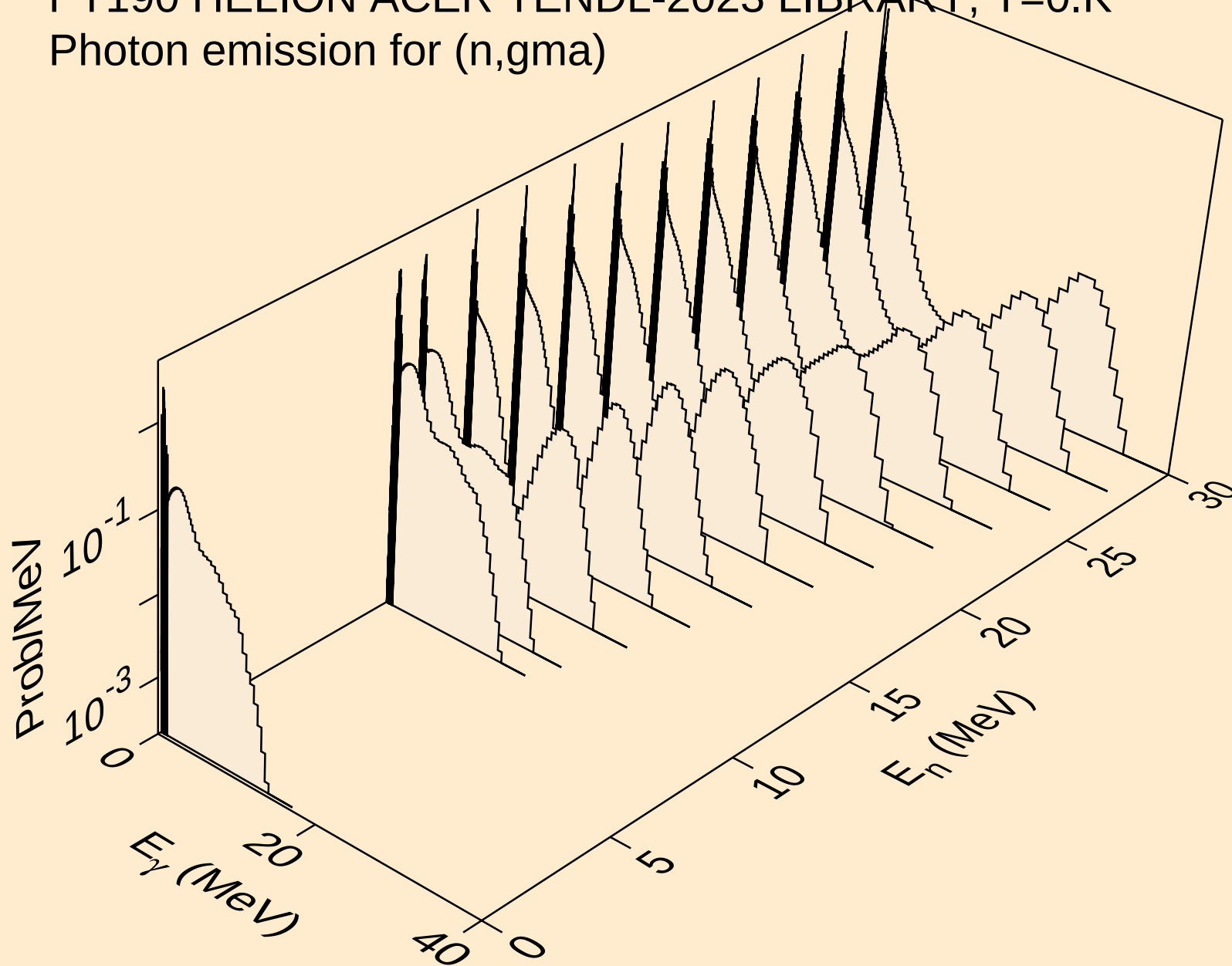
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Photon emission for (n,n2p)



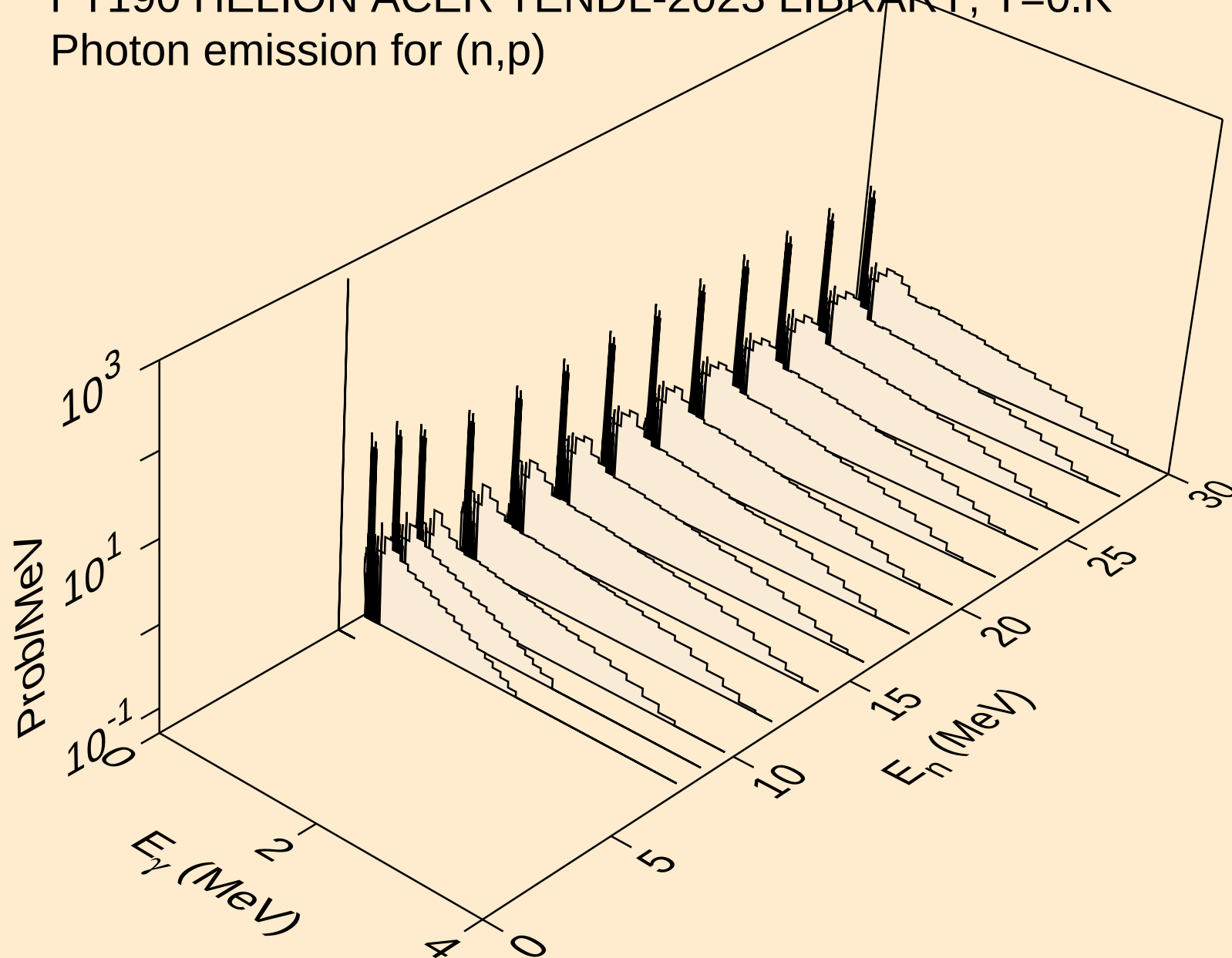
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Photon emission for (n,npa)



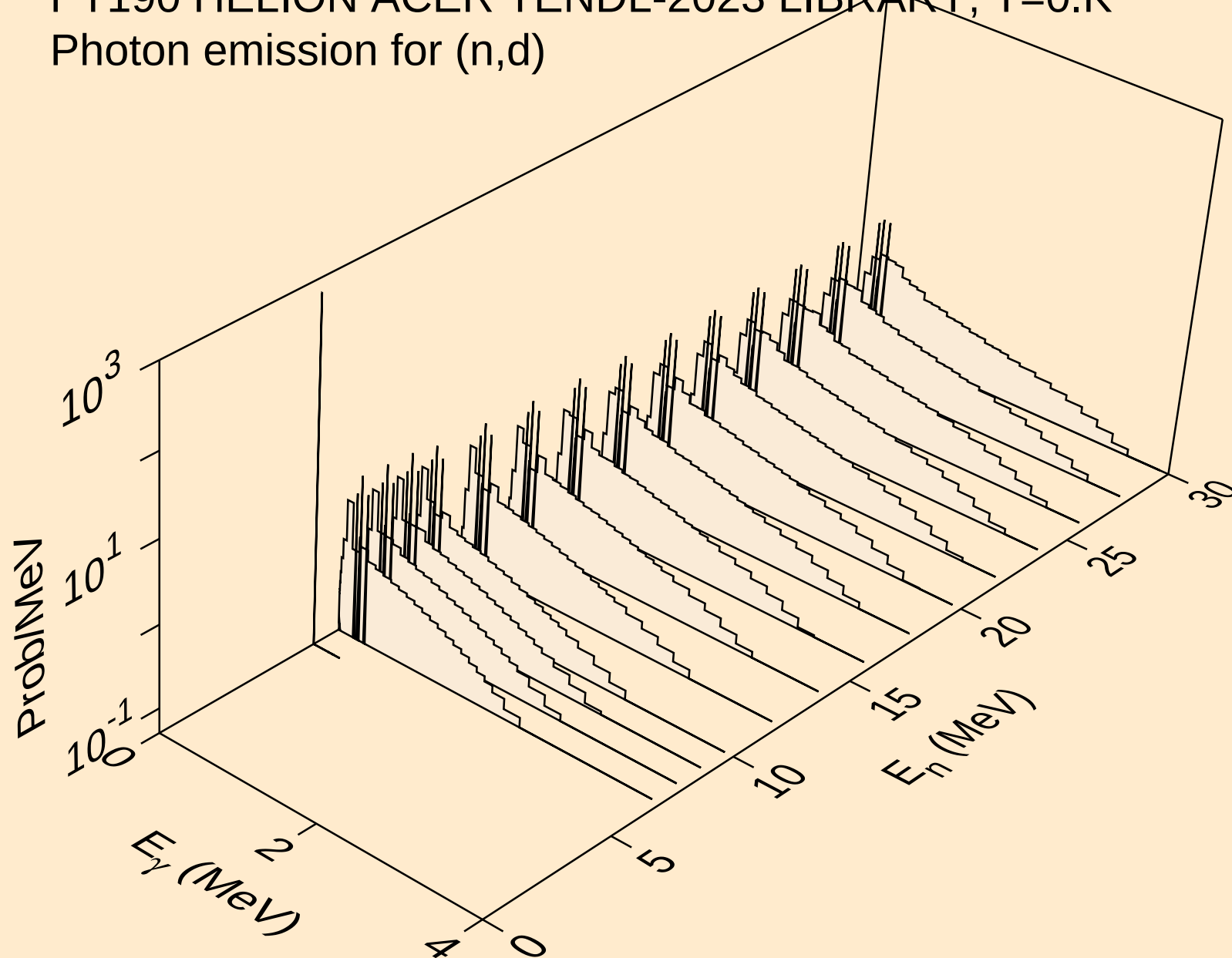
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Photon emission for (n,gma)



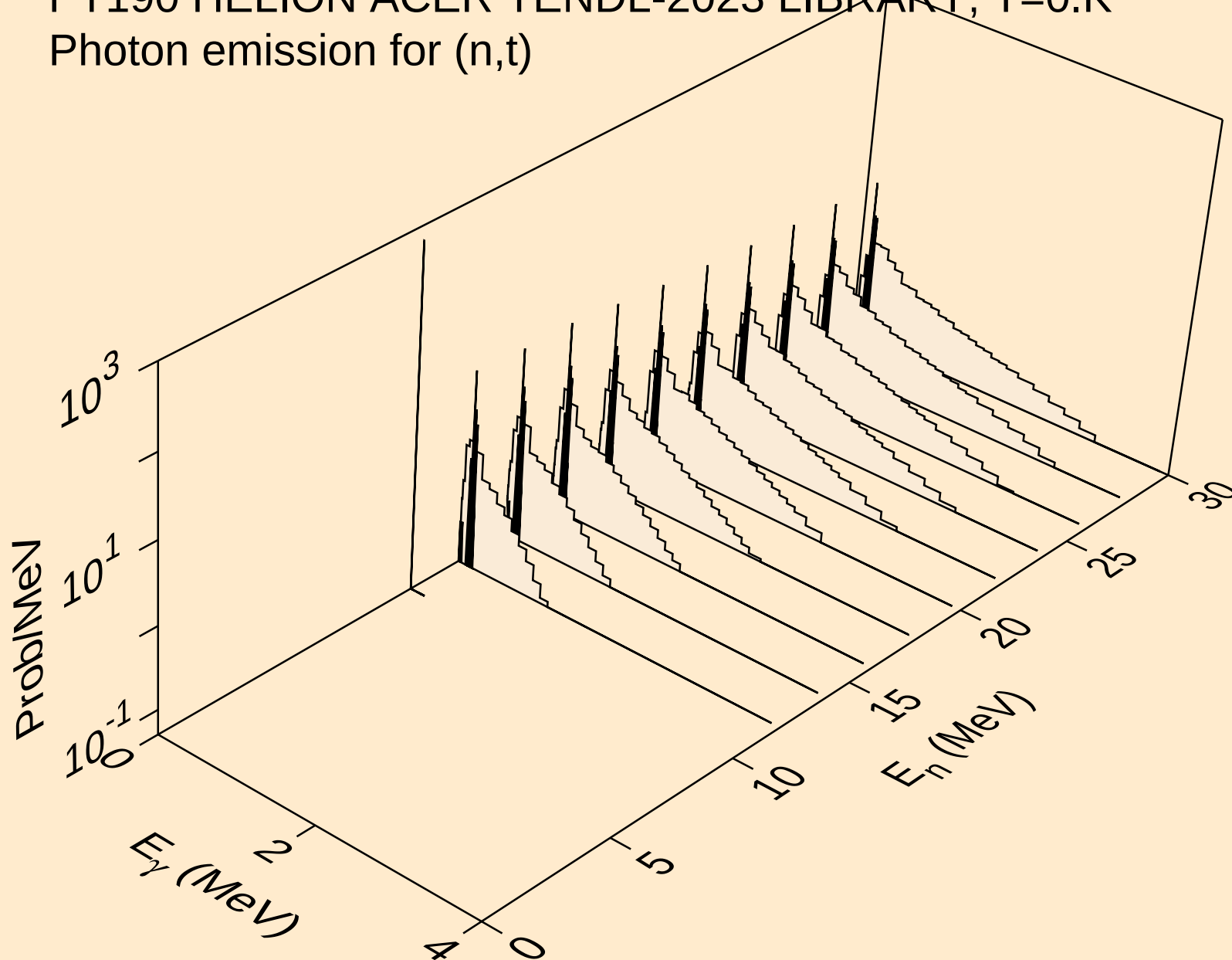
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Photon emission for (n,p)



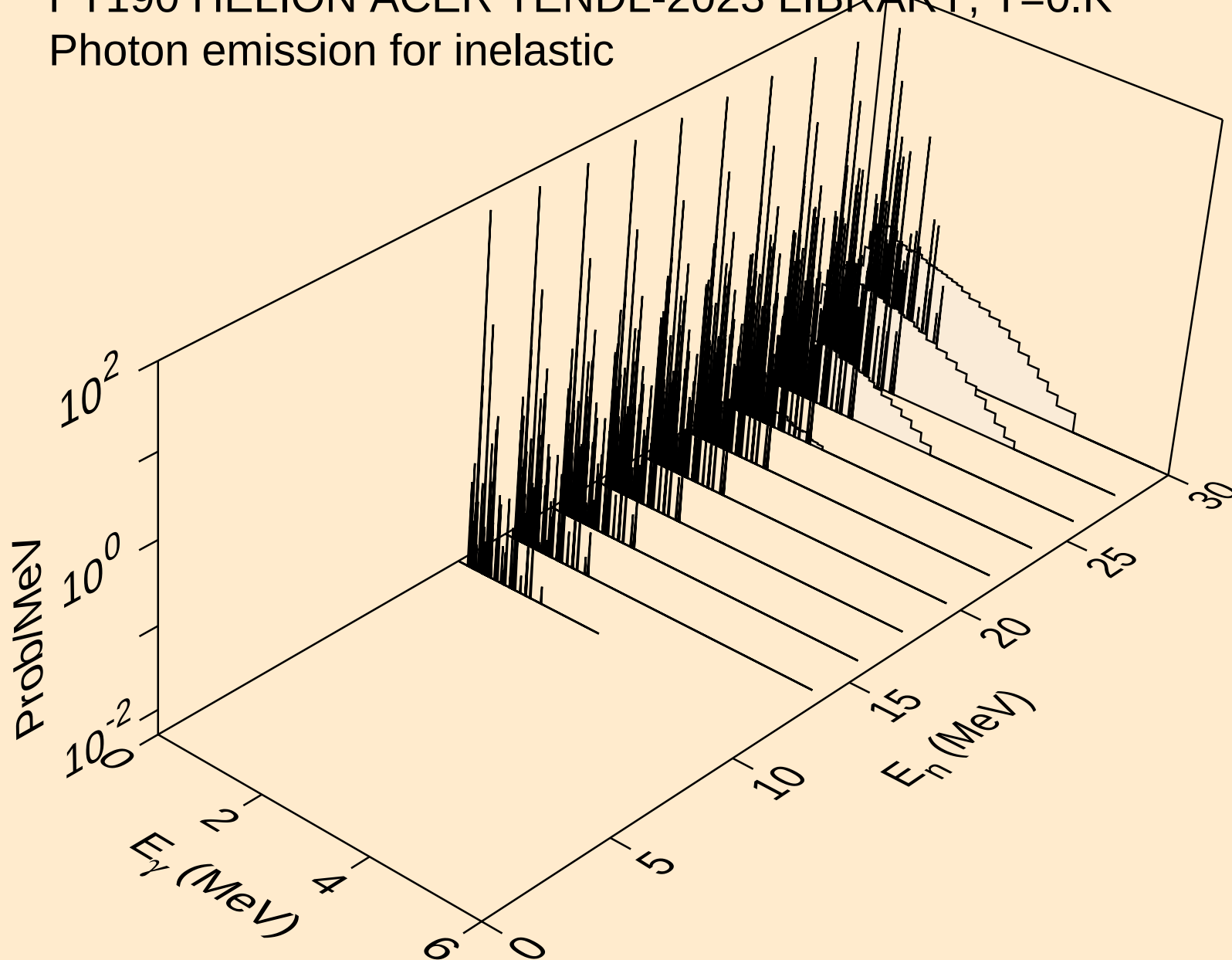
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Photon emission for (n,d)



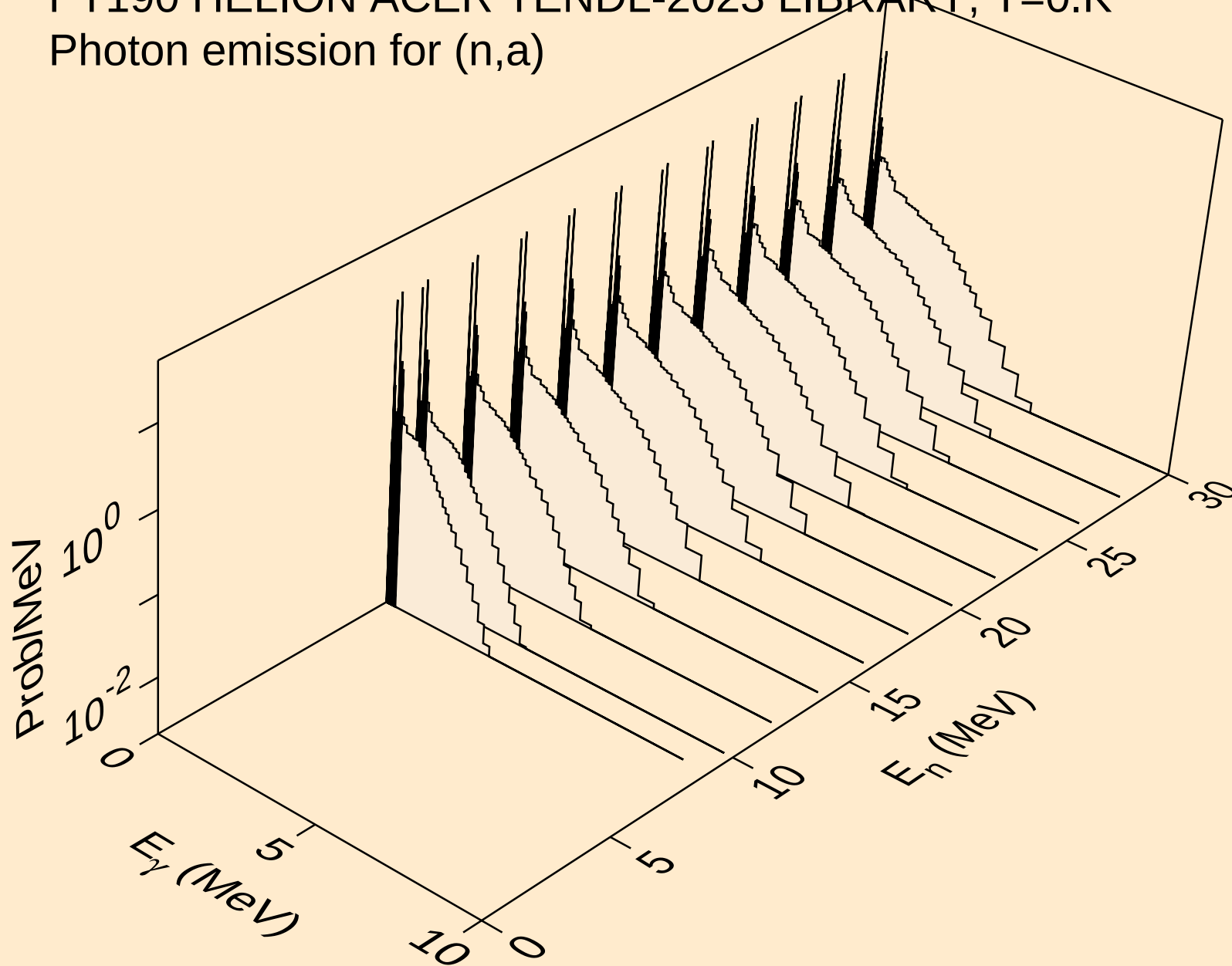
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Photon emission for (n,t)



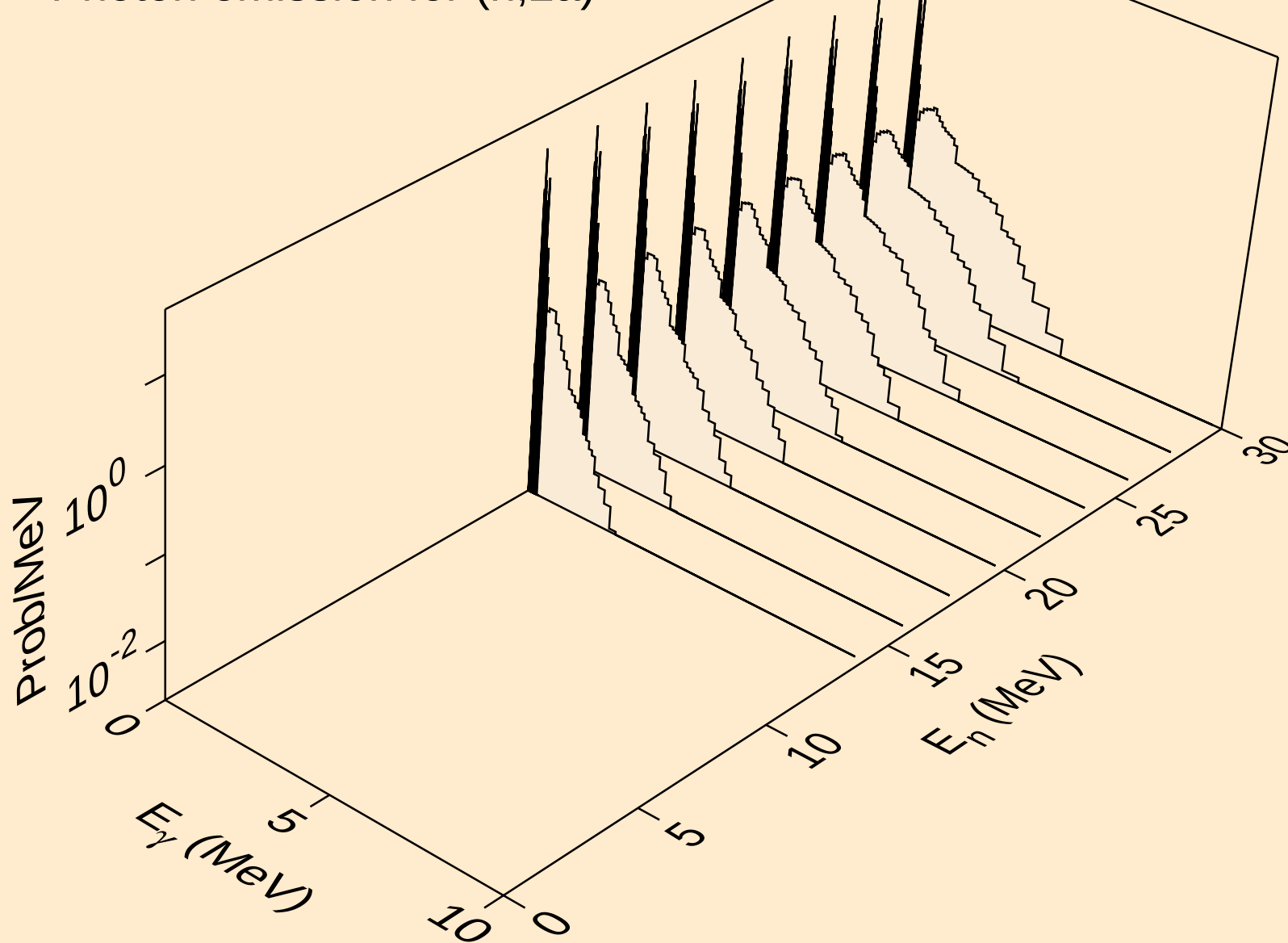
PT190 HELION ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for inelastic



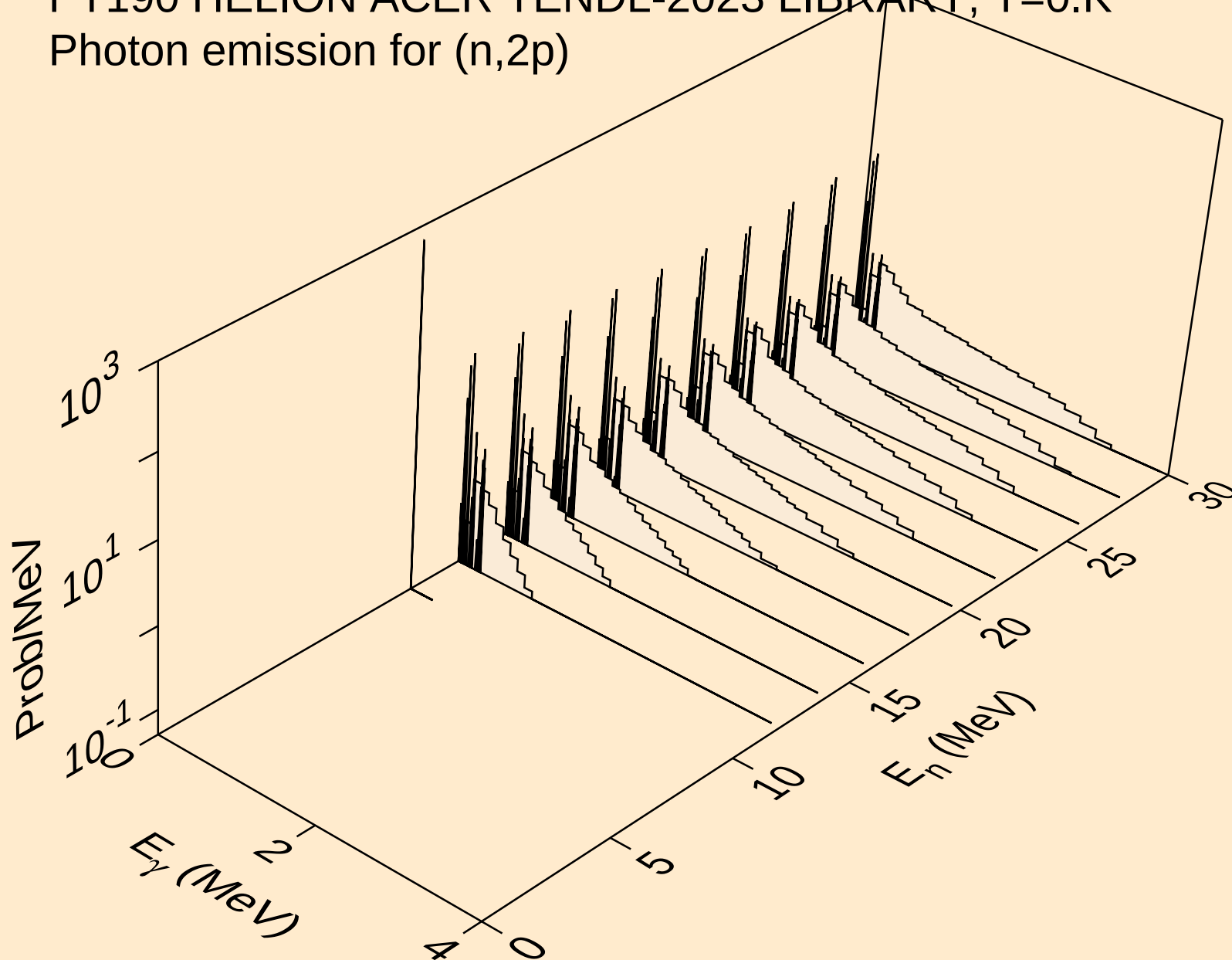
PT190 HELION ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,a)



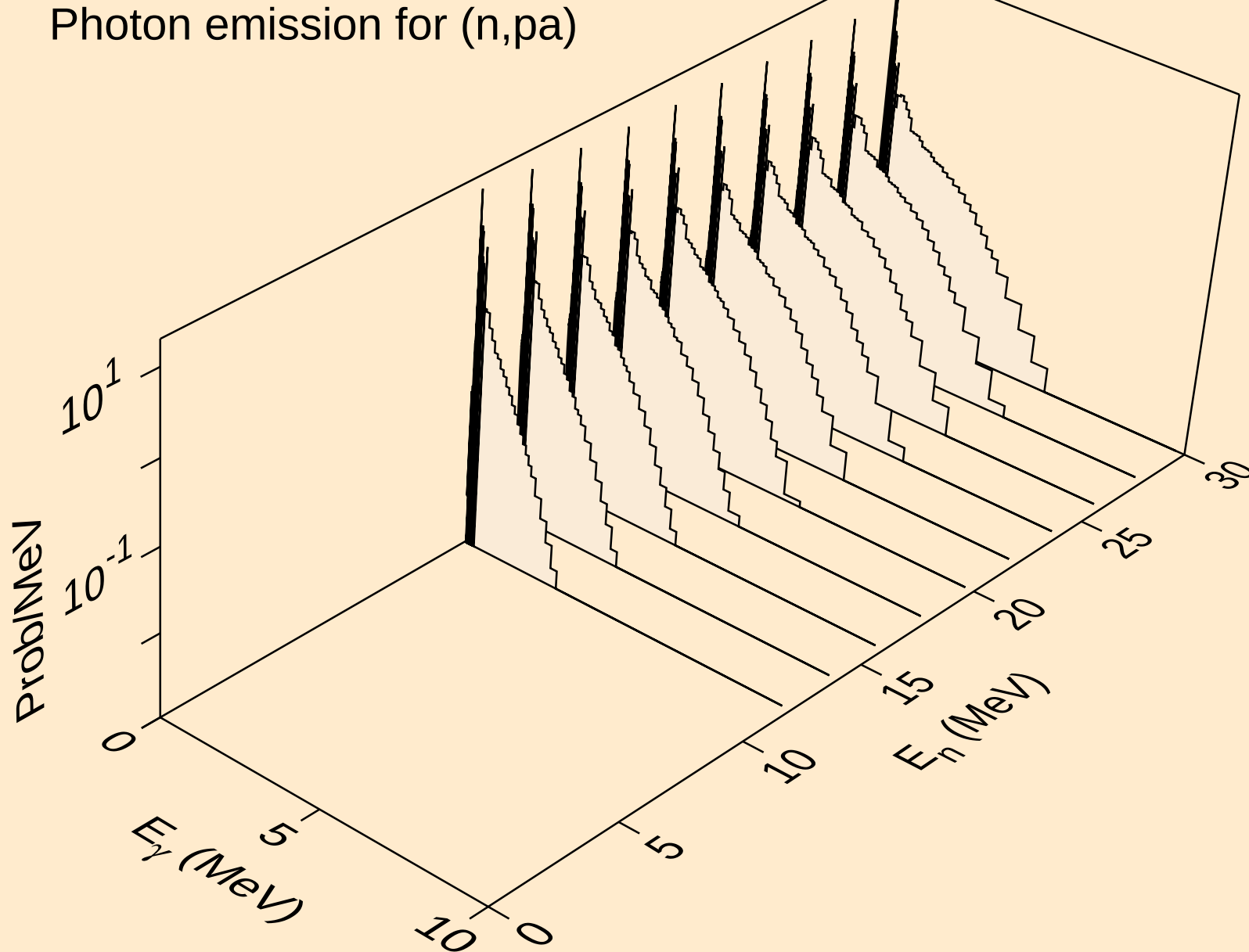
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Photon emission for (n,2a)



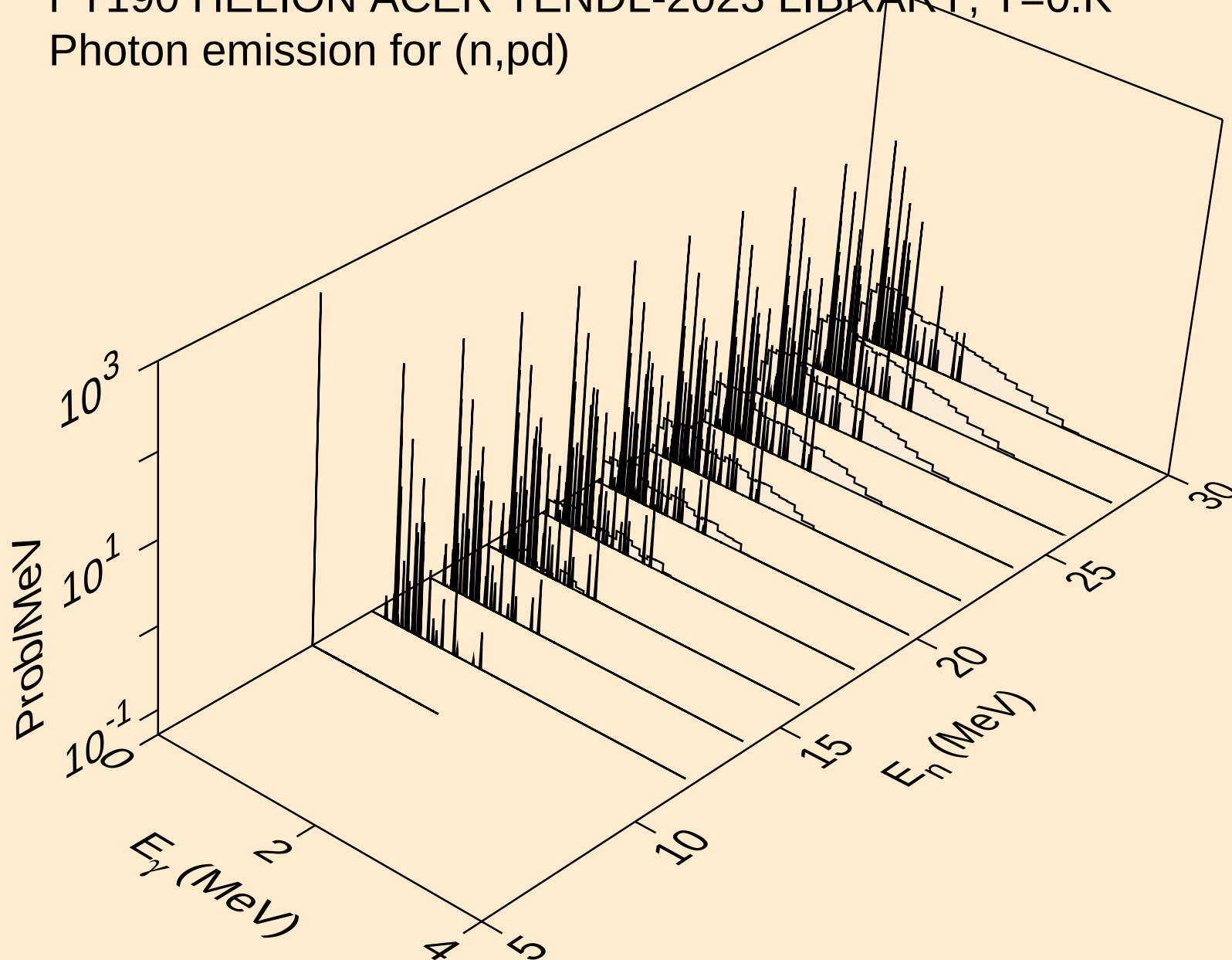
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Photon emission for (n,2p)



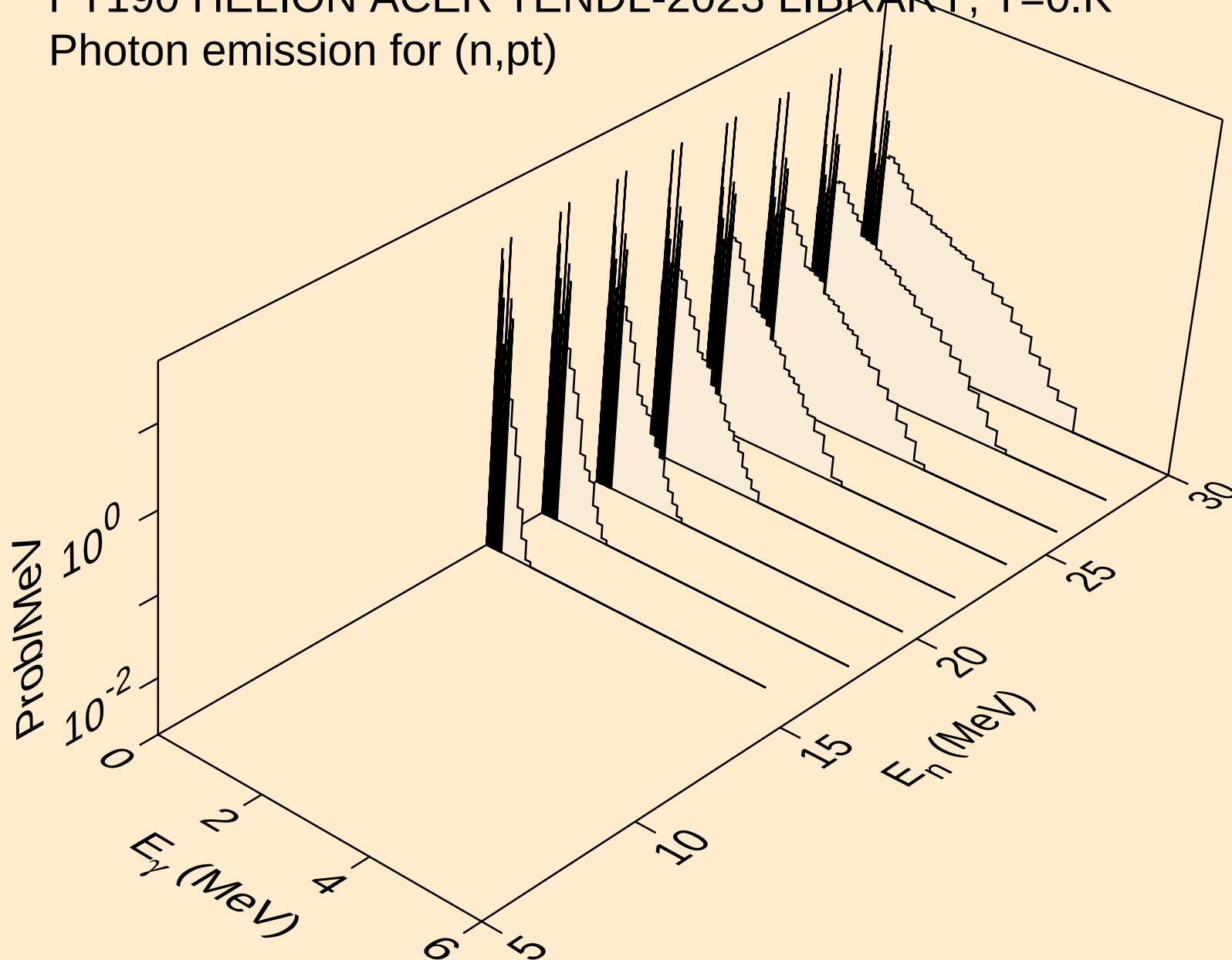
PT190 HELION ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,p $\alpha$ )



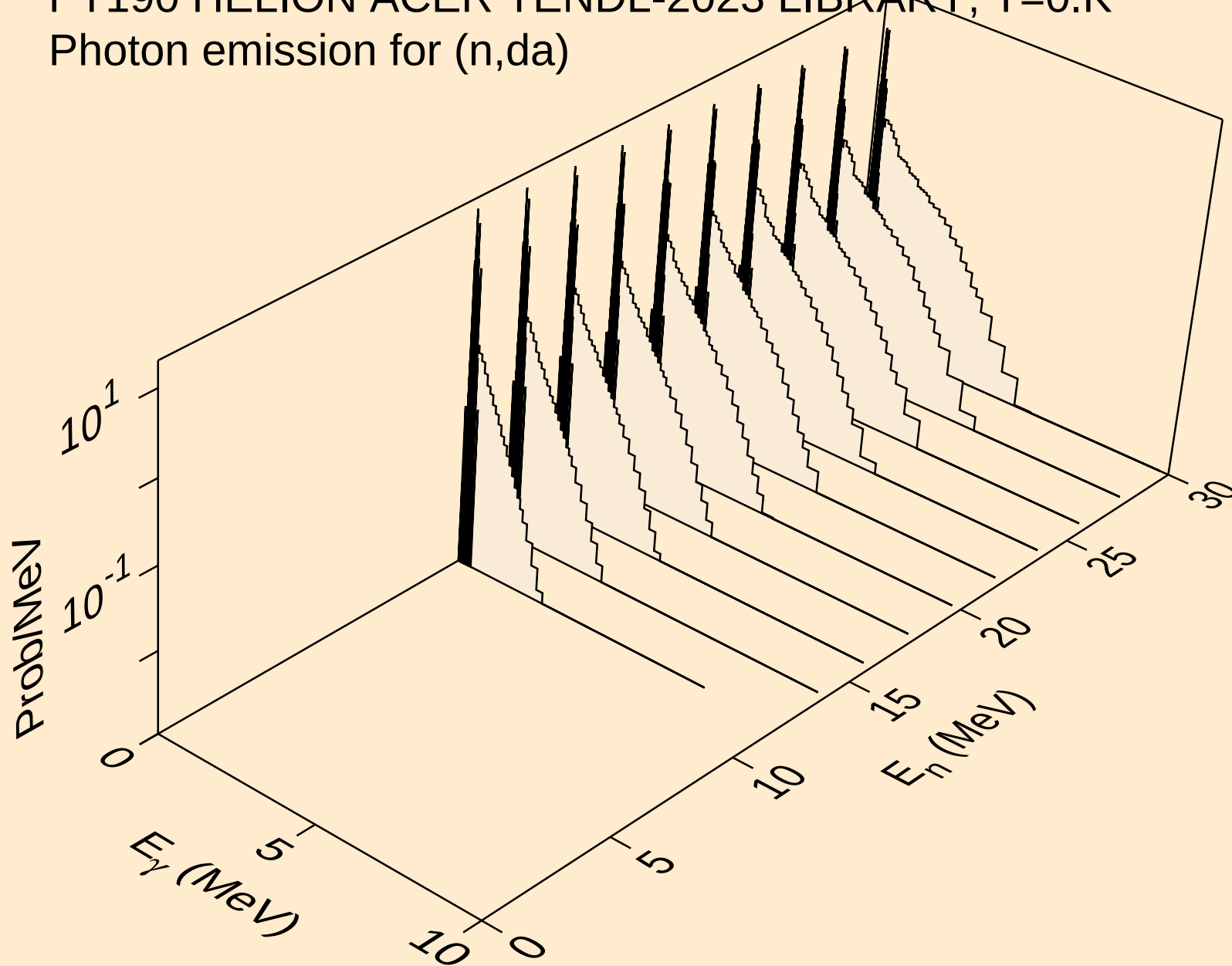
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Photon emission for (n,pd)



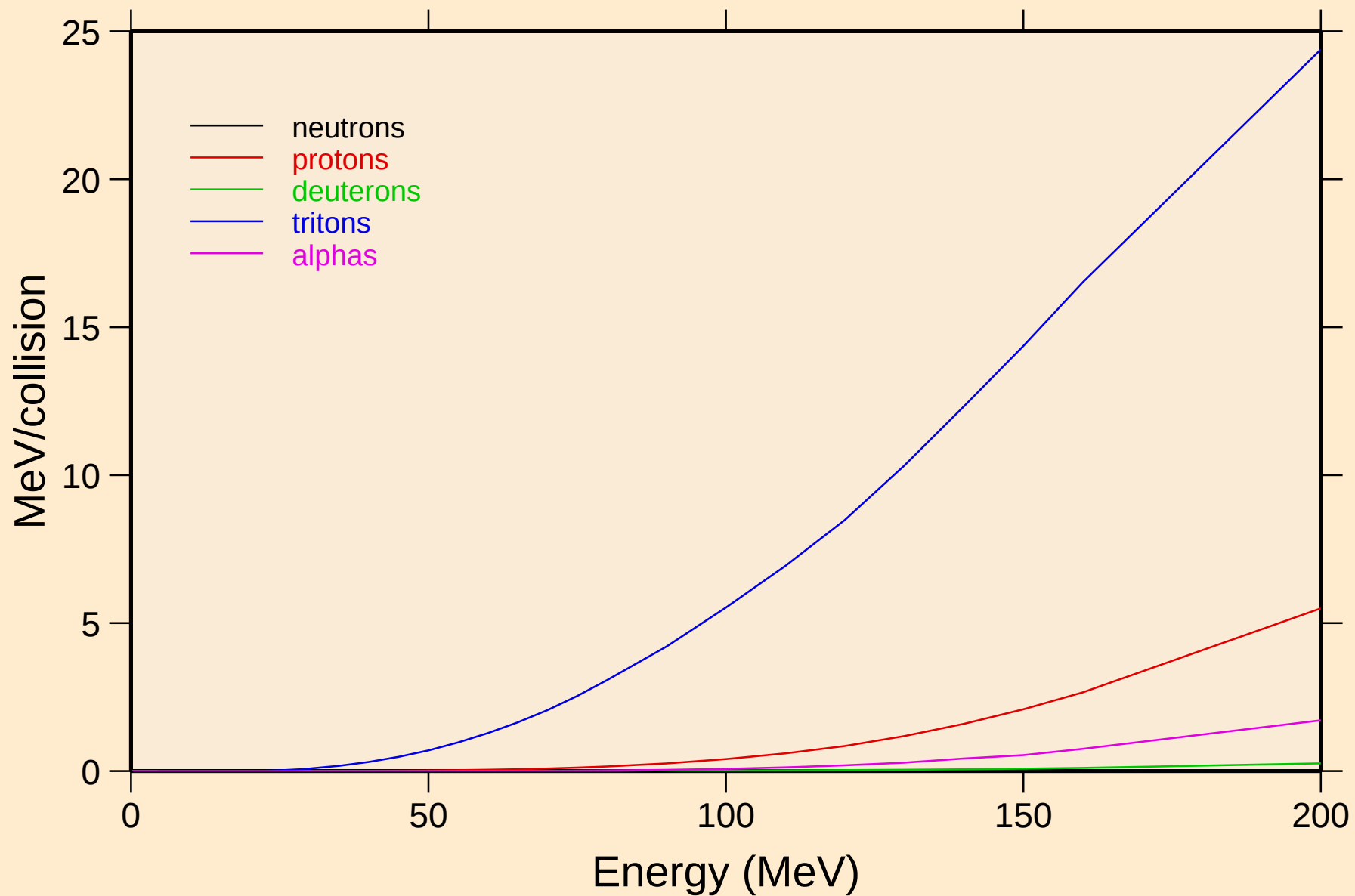
PT190 HELION ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,pt)



PT190 HELION ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,da)

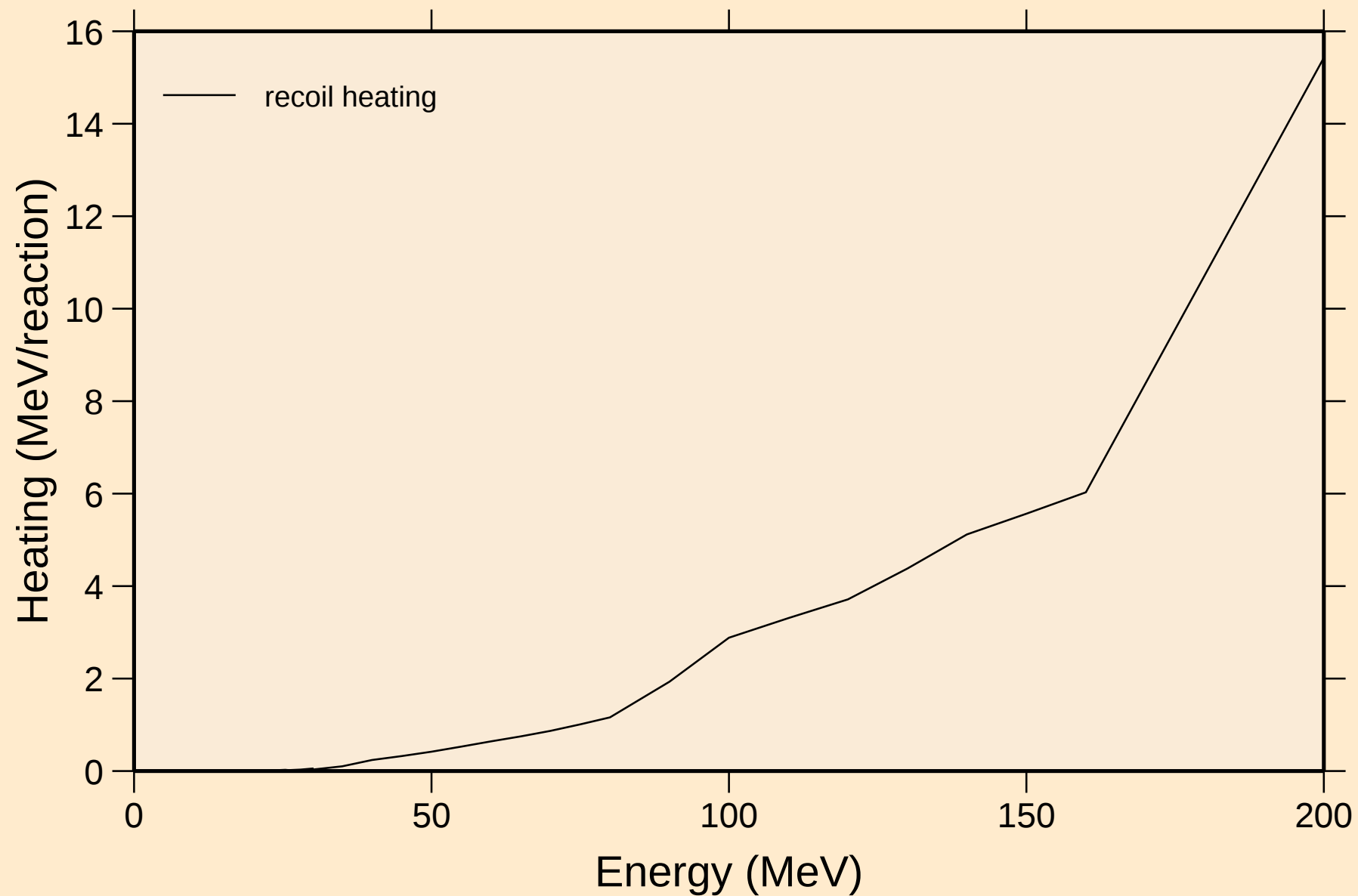


PT190 HELION ACER TENDL-2023 LIBRARY; T=0.K  
Particle heating contributions



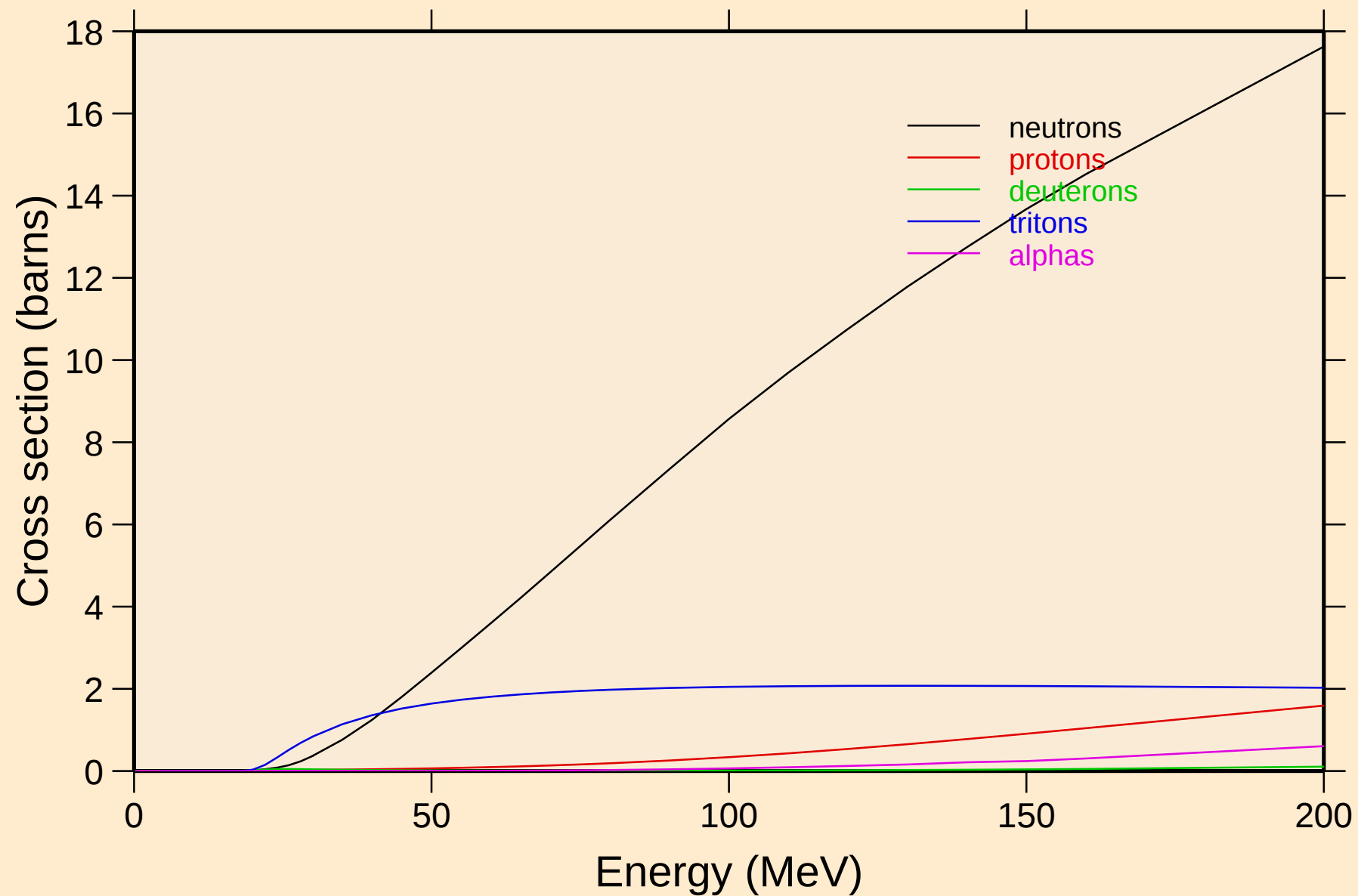
PT190 HELION ACER TENDL-2023 LIBRARY; T=0.K

## Recoil Heating

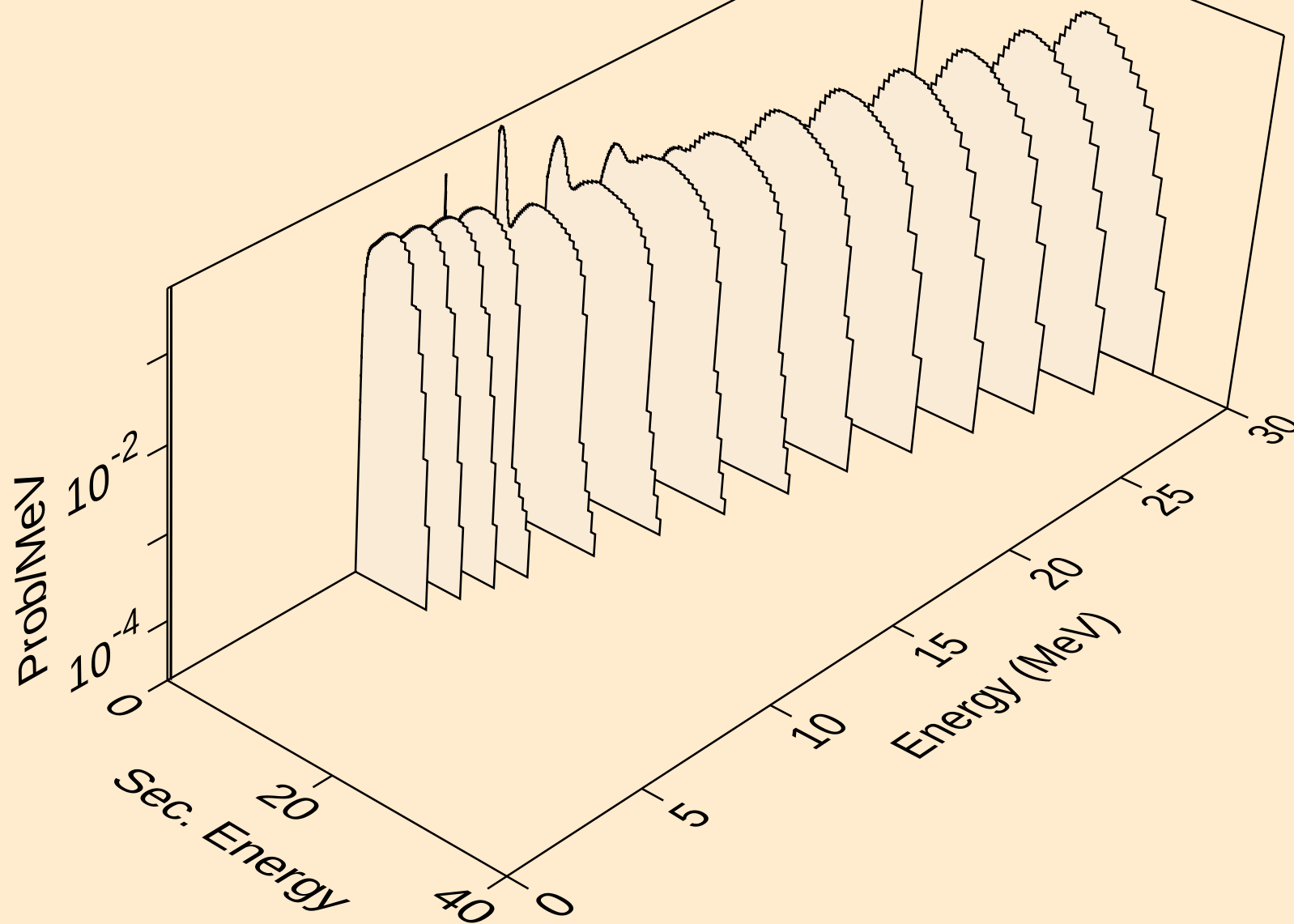


PT190 HELION ACER TENDL-2023 LIBRARY; T=0.K

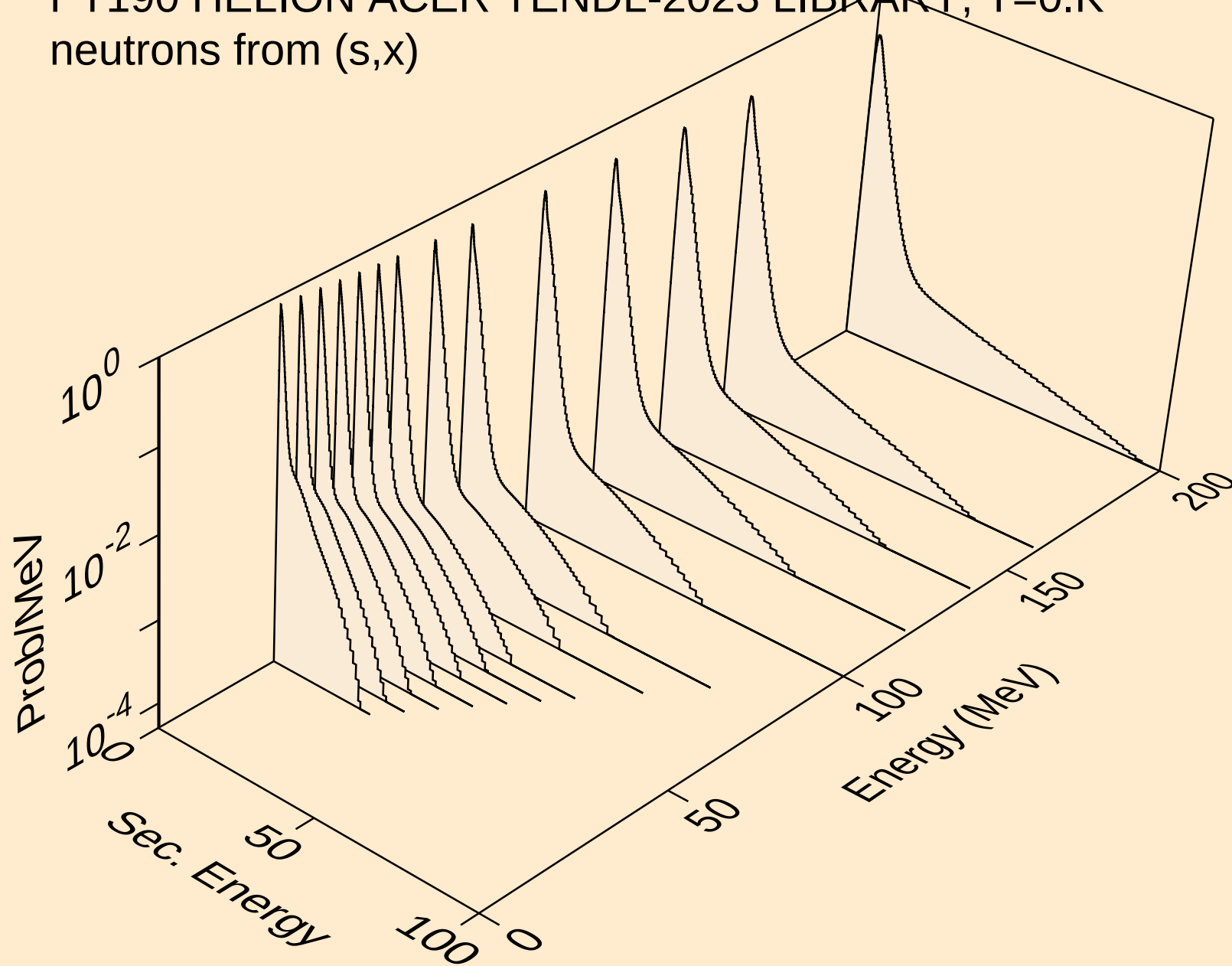
Particle production cross sections



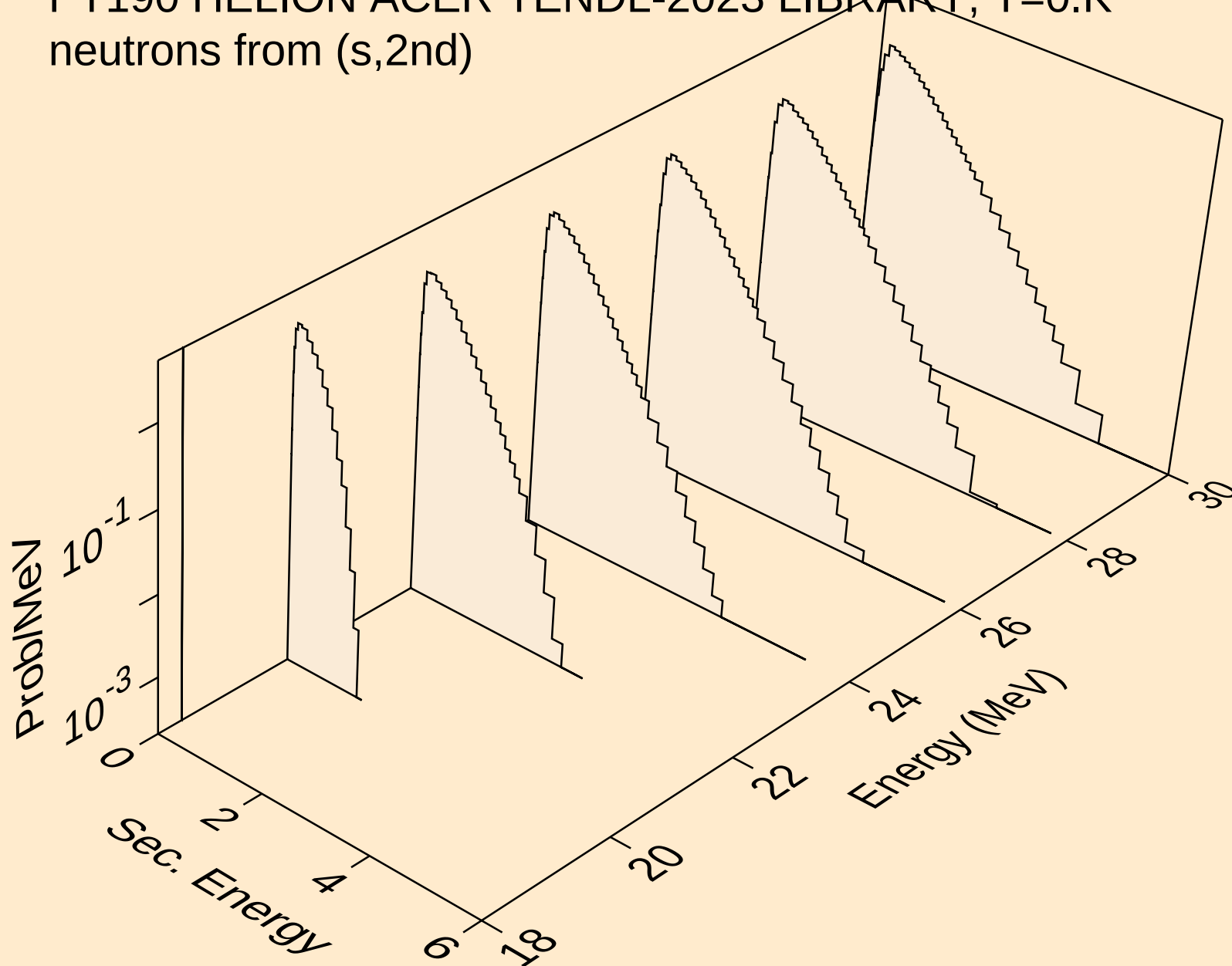
PT190 HELION ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (s,n)



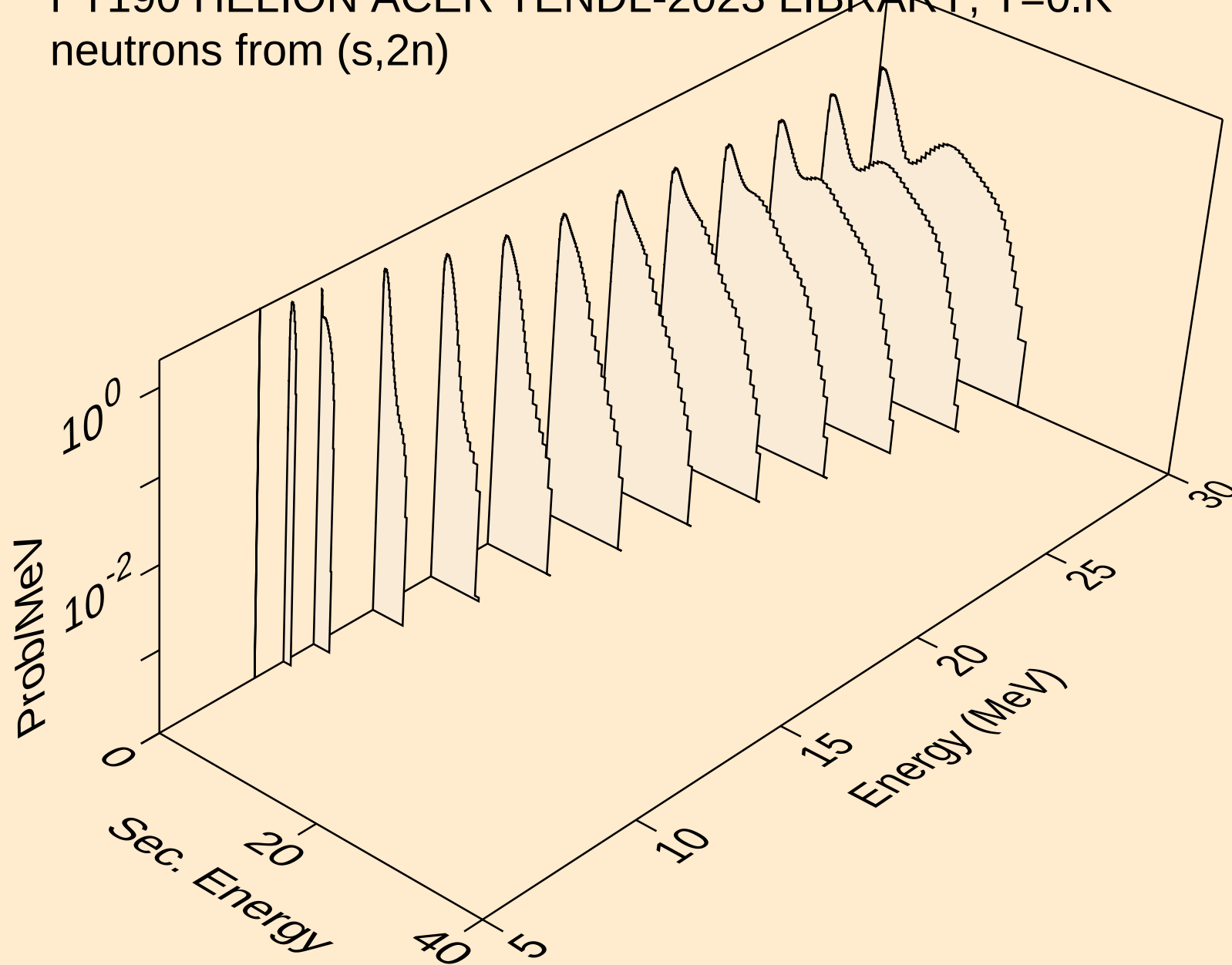
PT190 HELION ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (s,x)



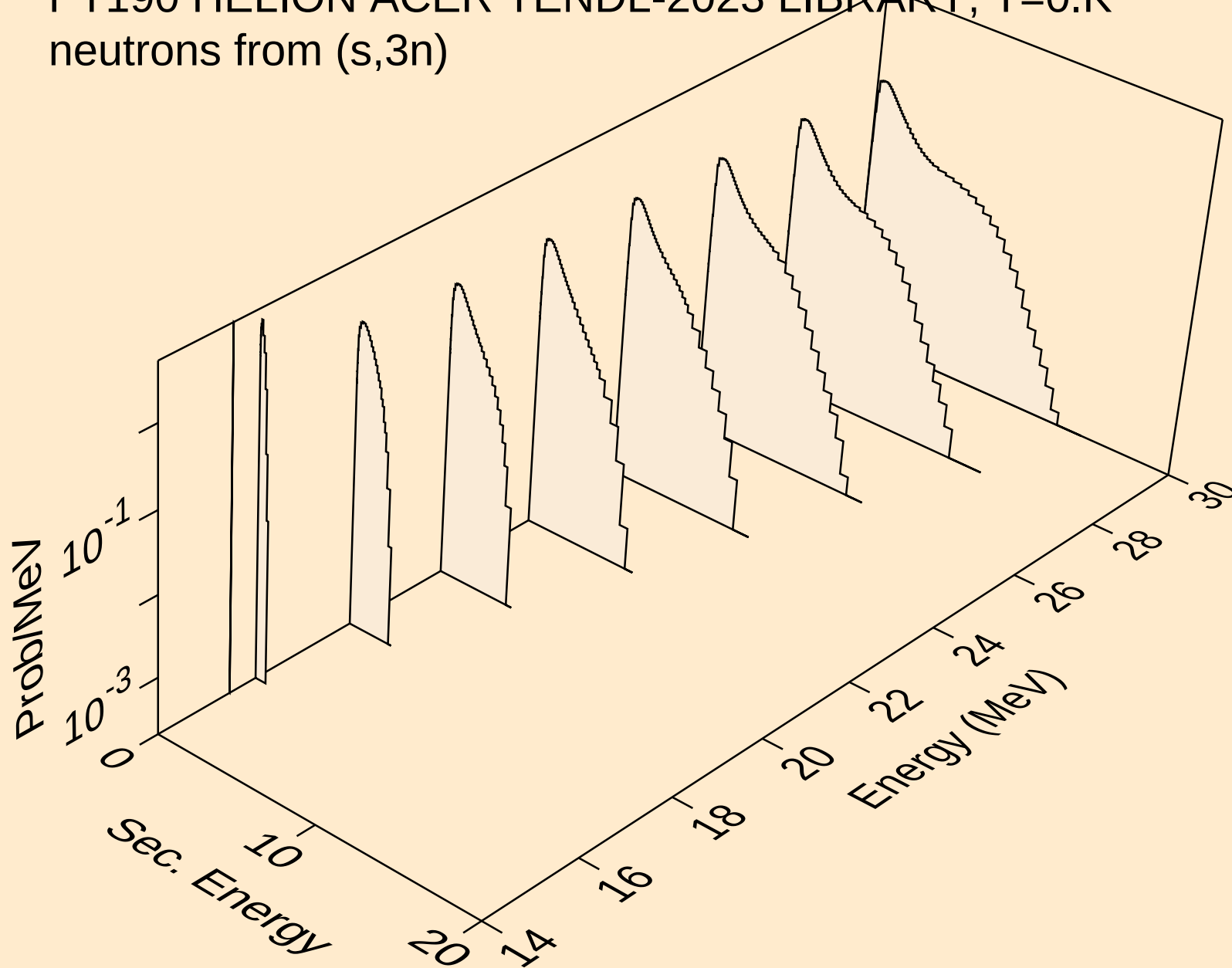
PT190 HELION ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (s,2nd)



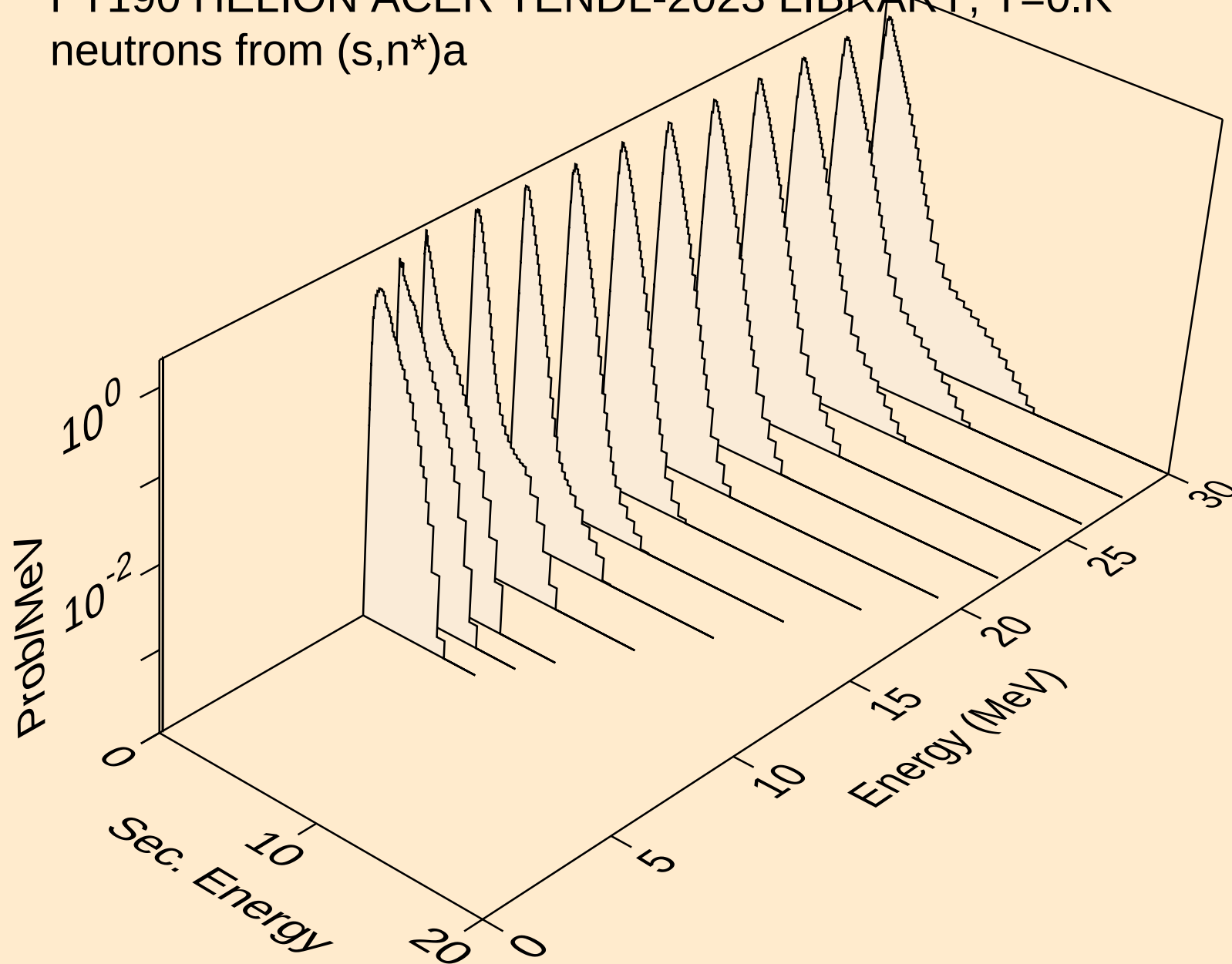
PT190 HELION ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (s,2n)



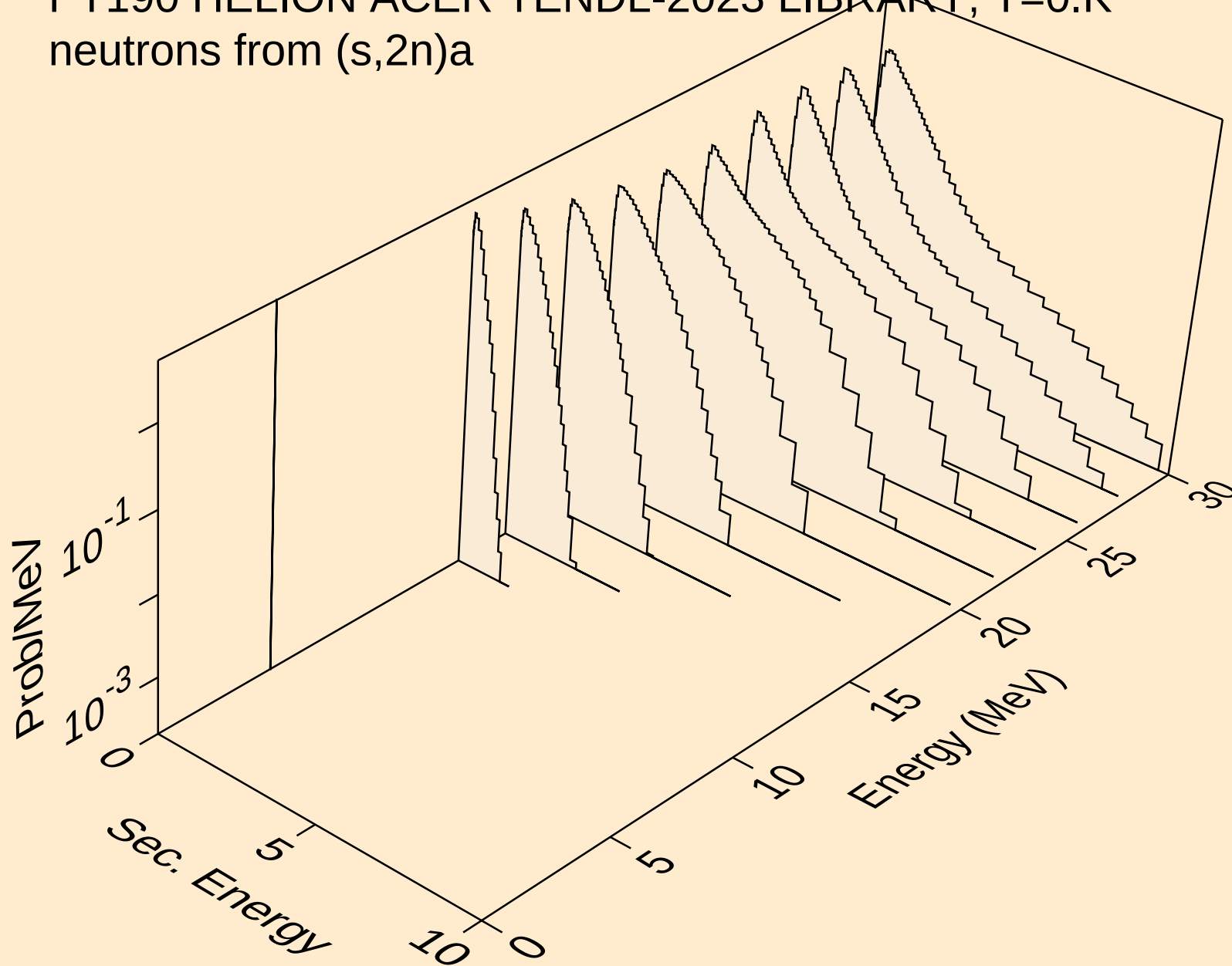
PT190 HELION ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (s,3n)



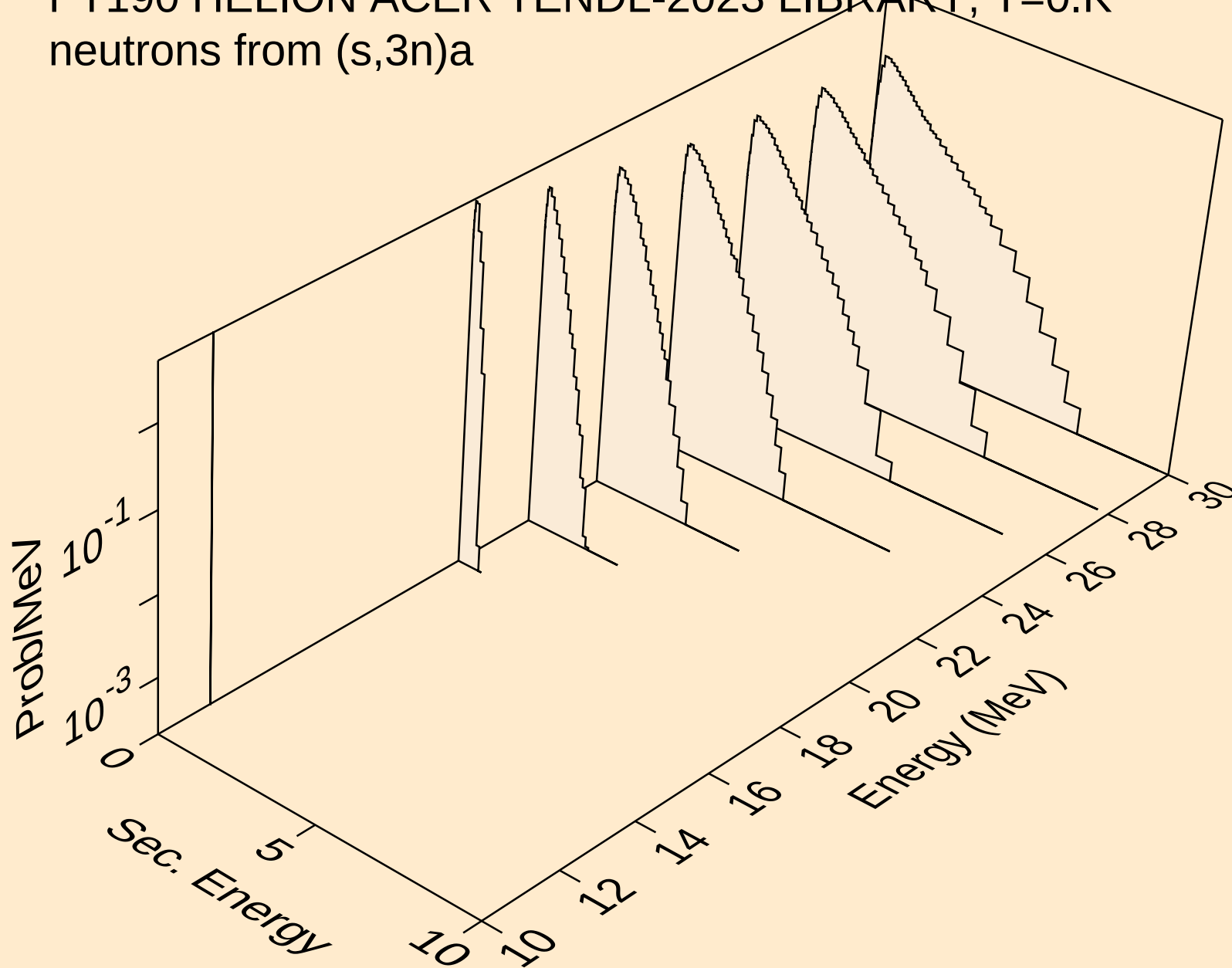
PT190 HELION ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (s,n\*)a



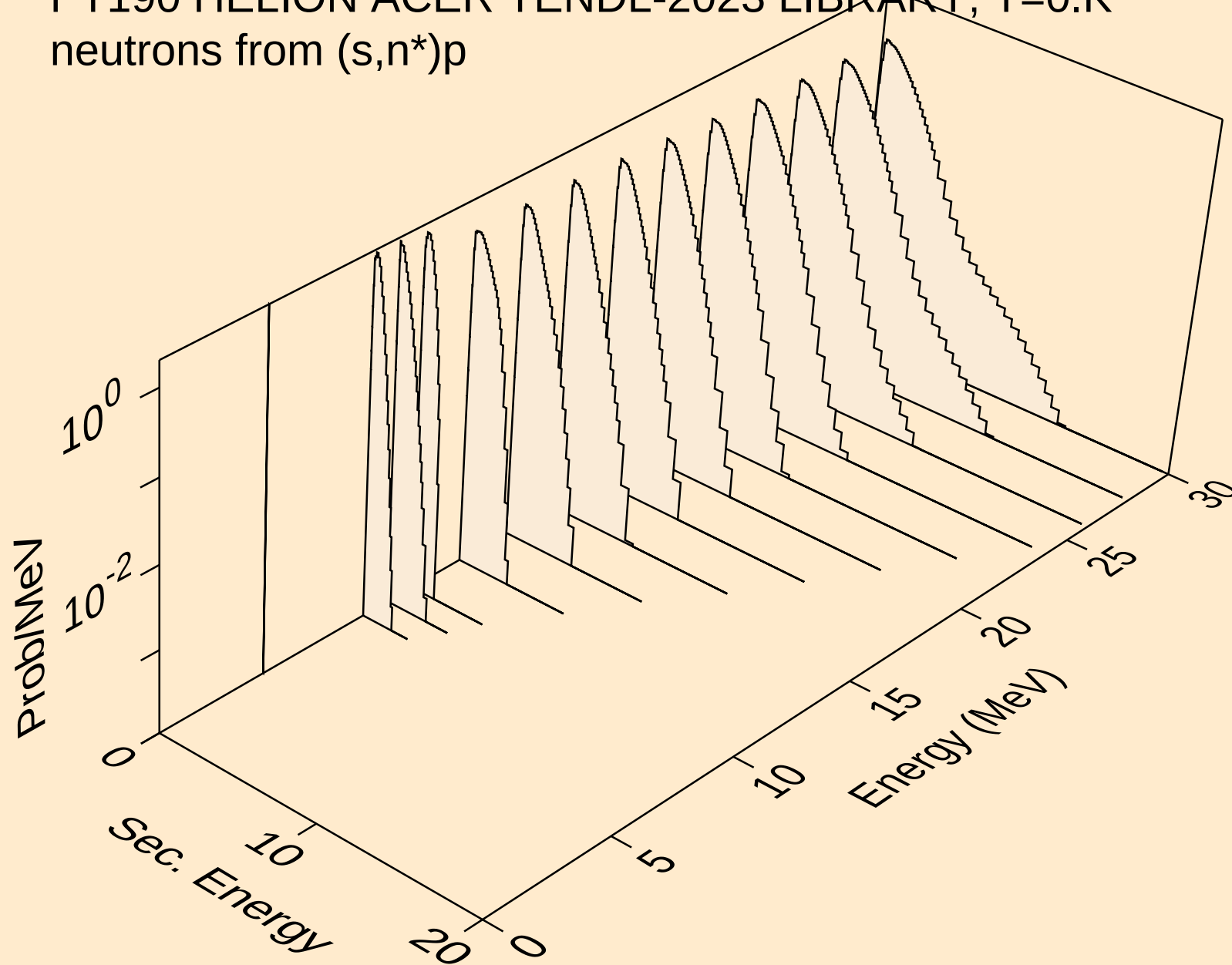
PT190 HELION ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (s,2n)a



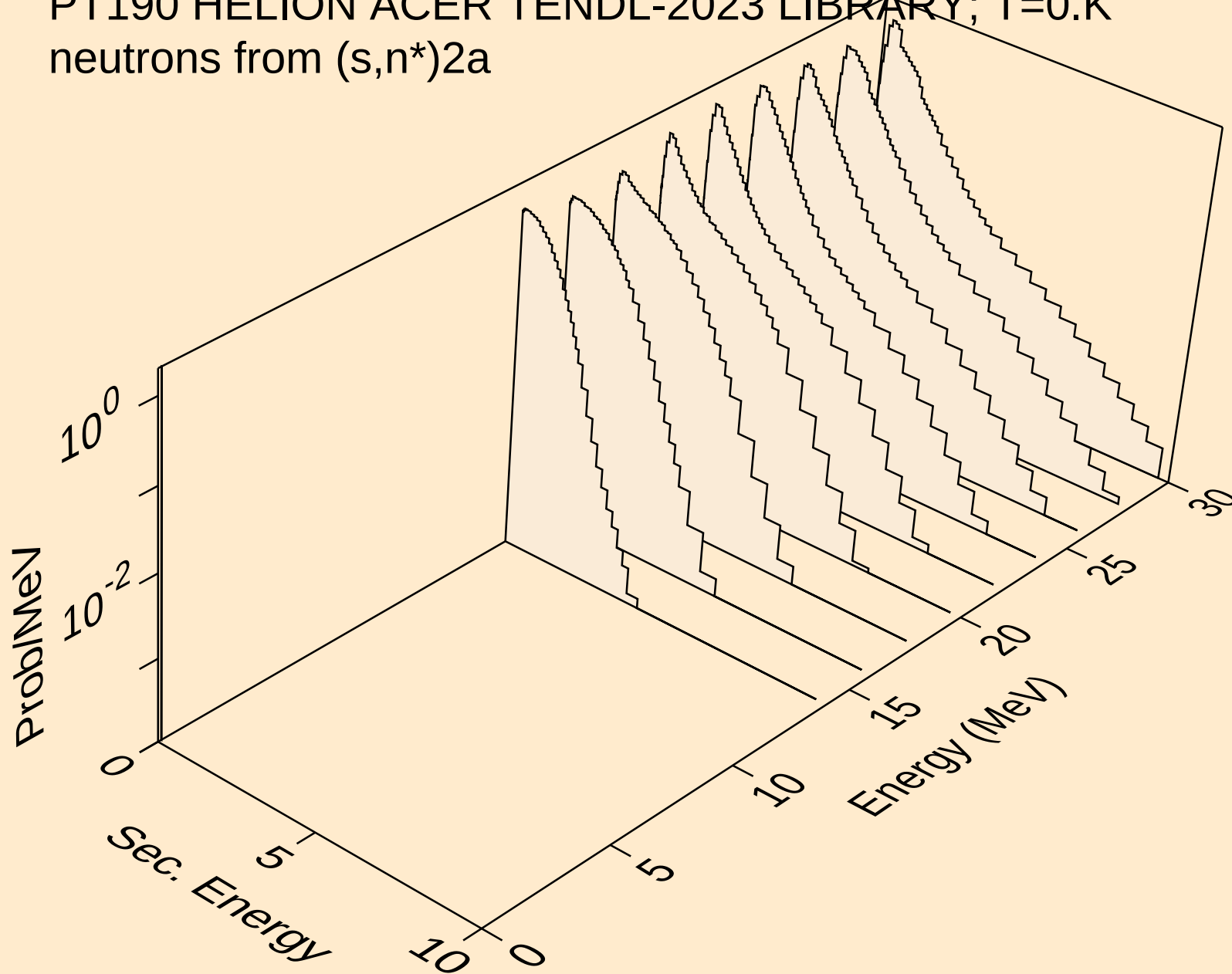
PT190 HELION ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (s,3n)a



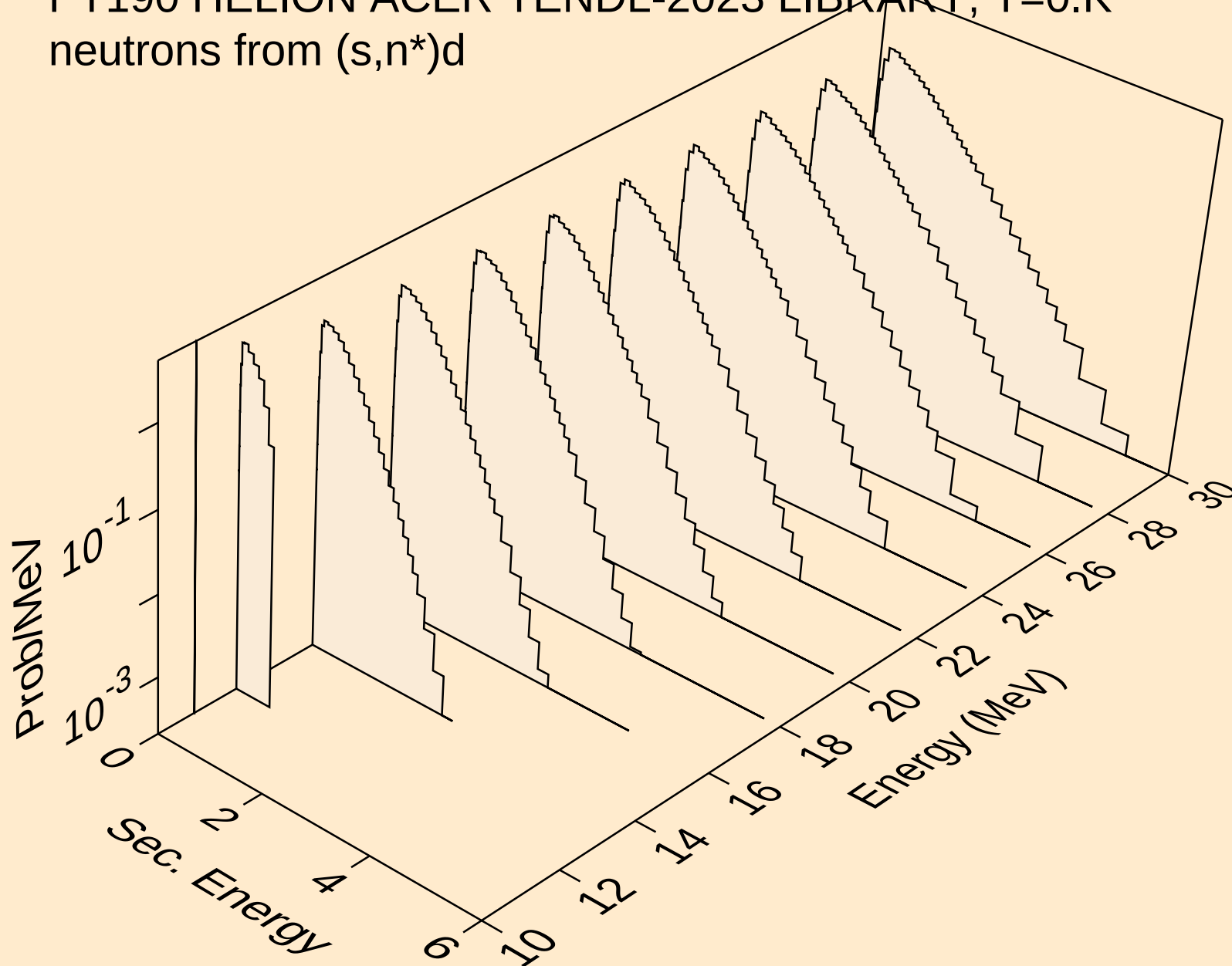
PT190 HELION ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (s,n\*)p



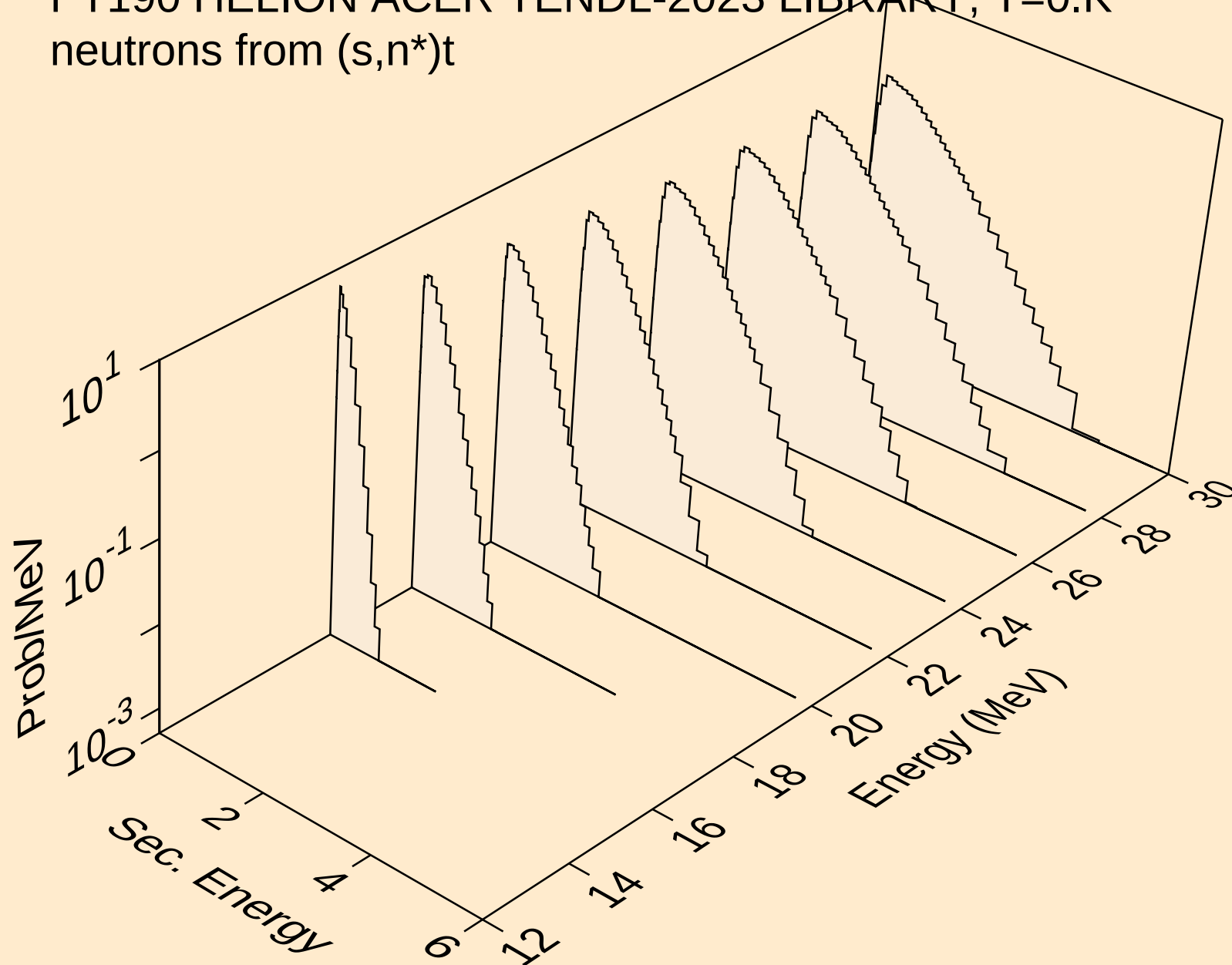
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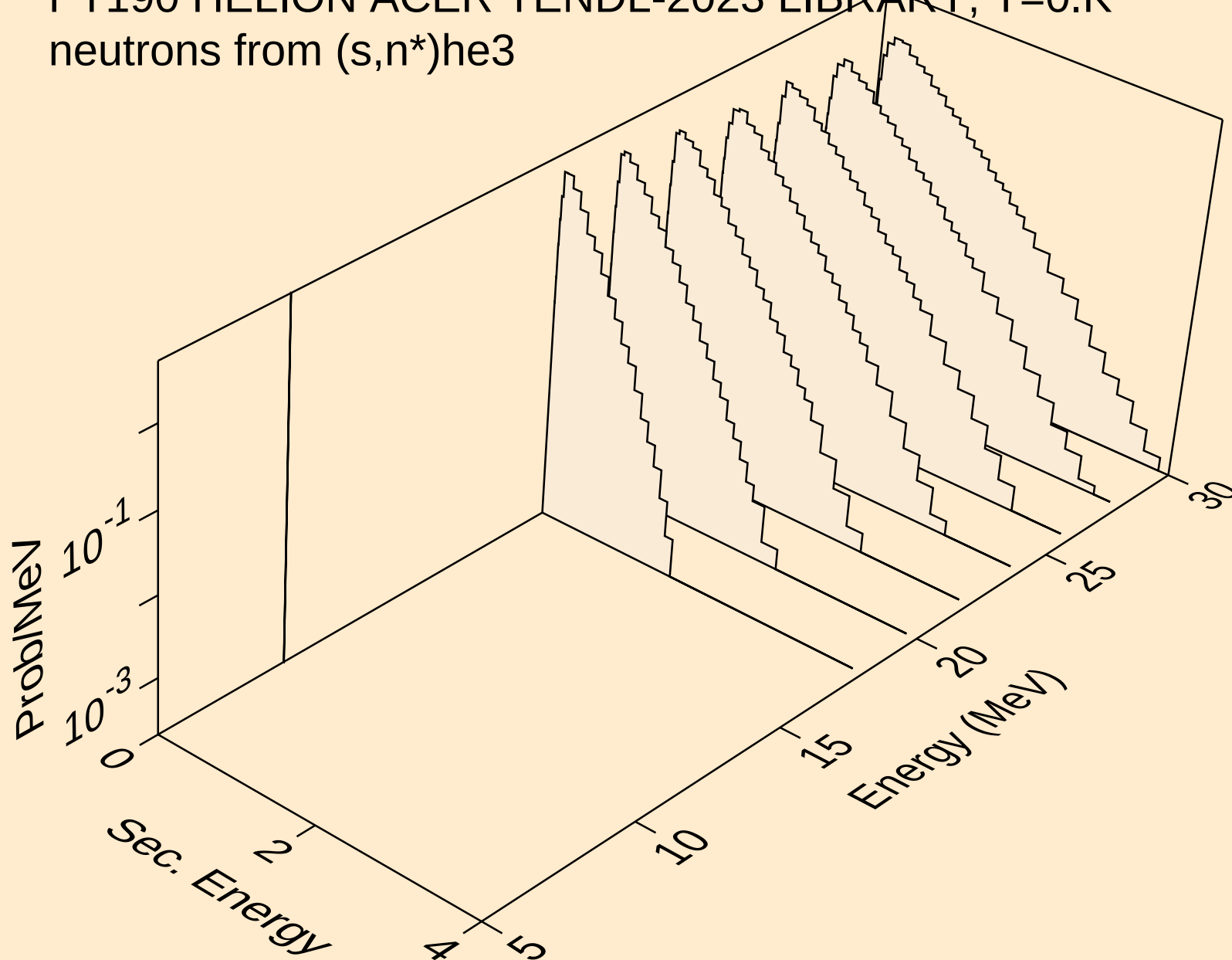
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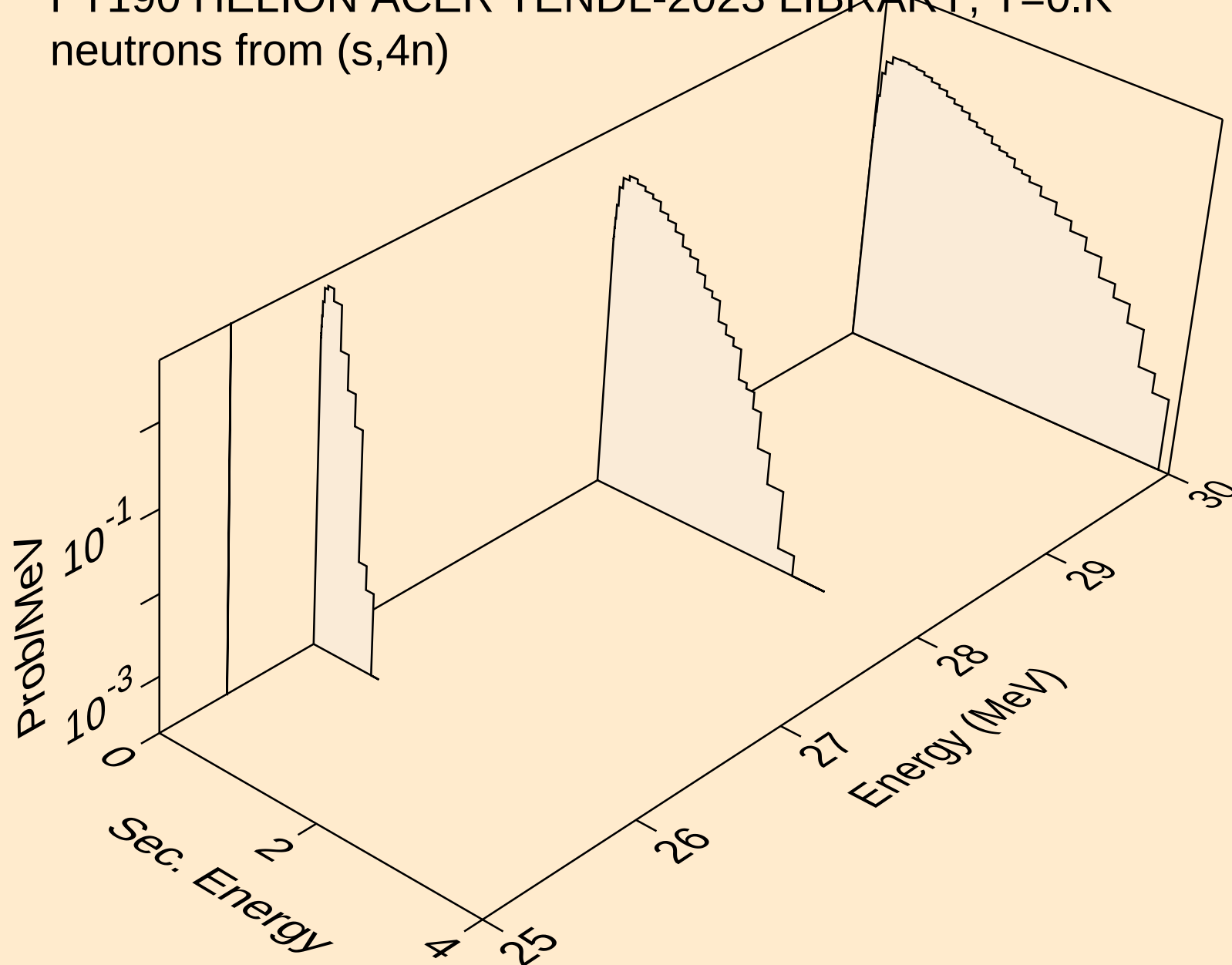
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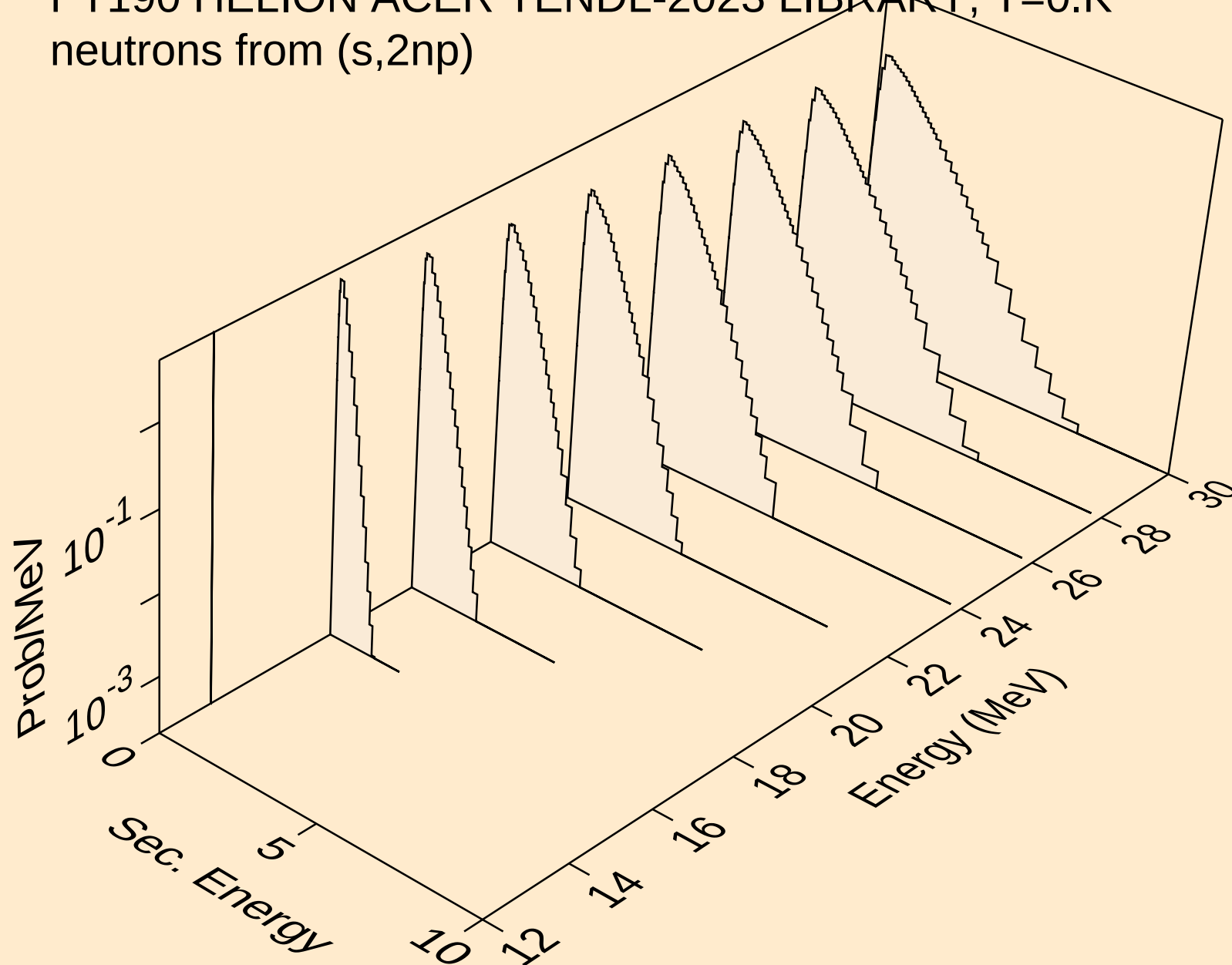
PT190 HELION ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (s,n\*)he3



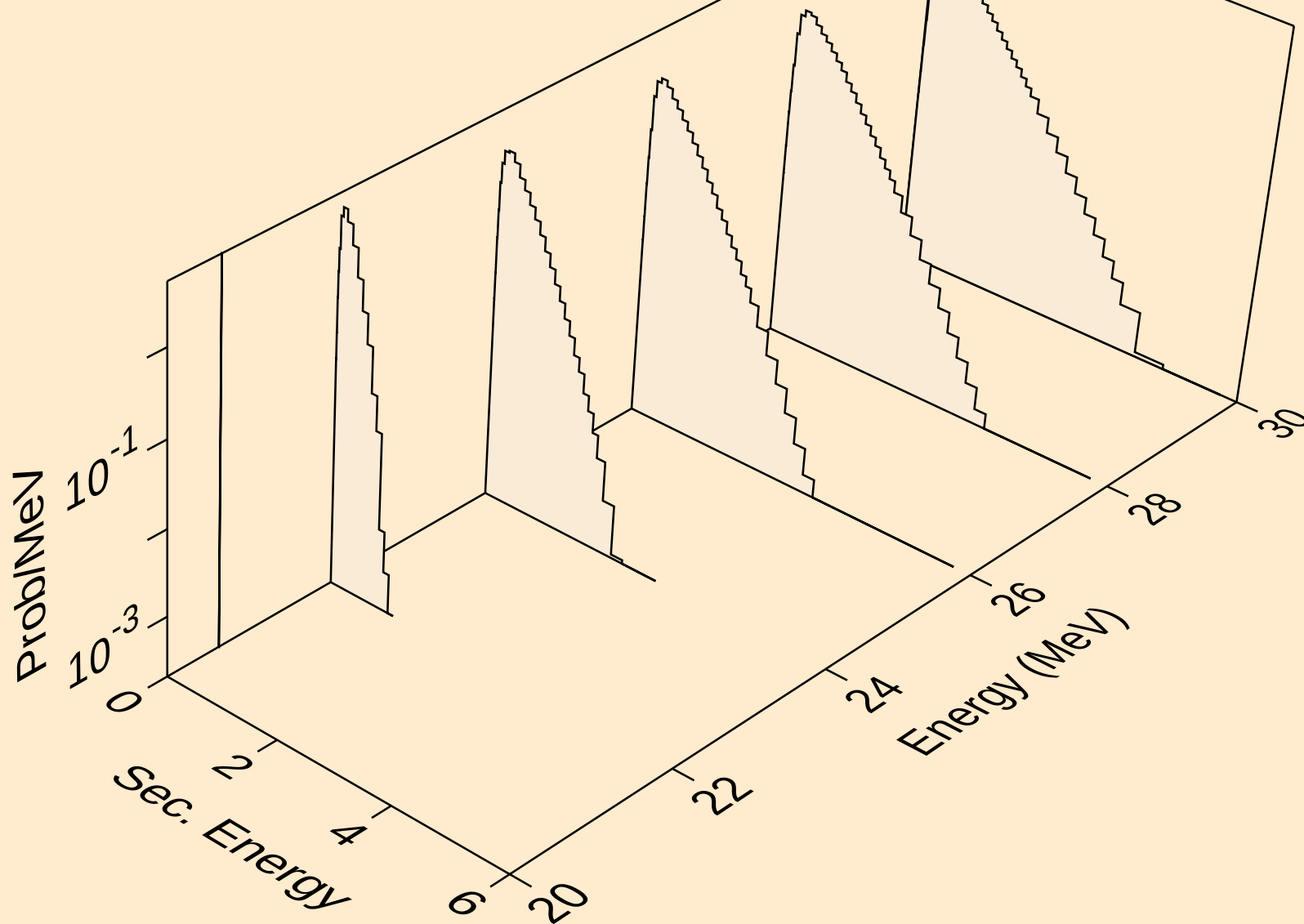
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neutrons from (s,4n)



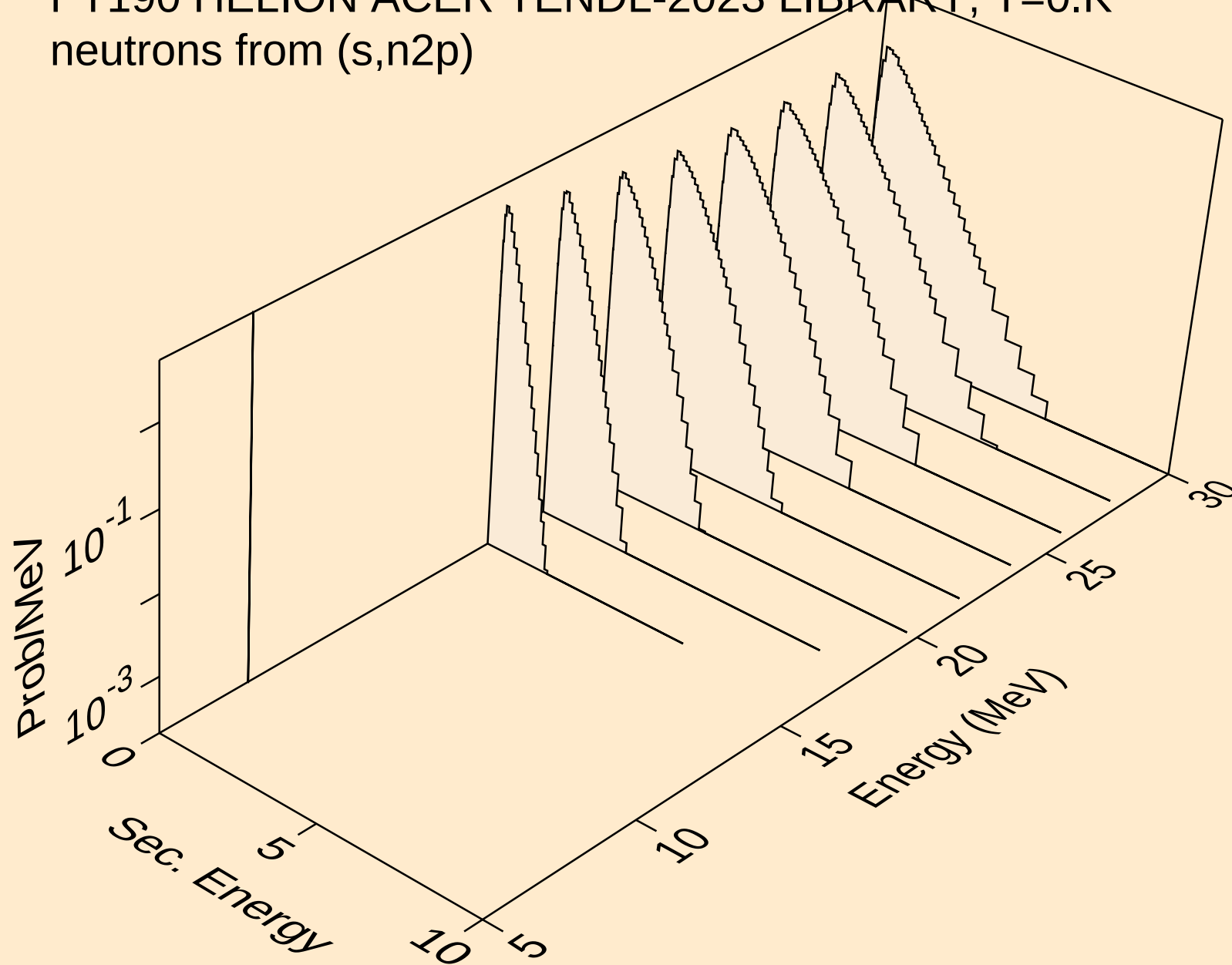
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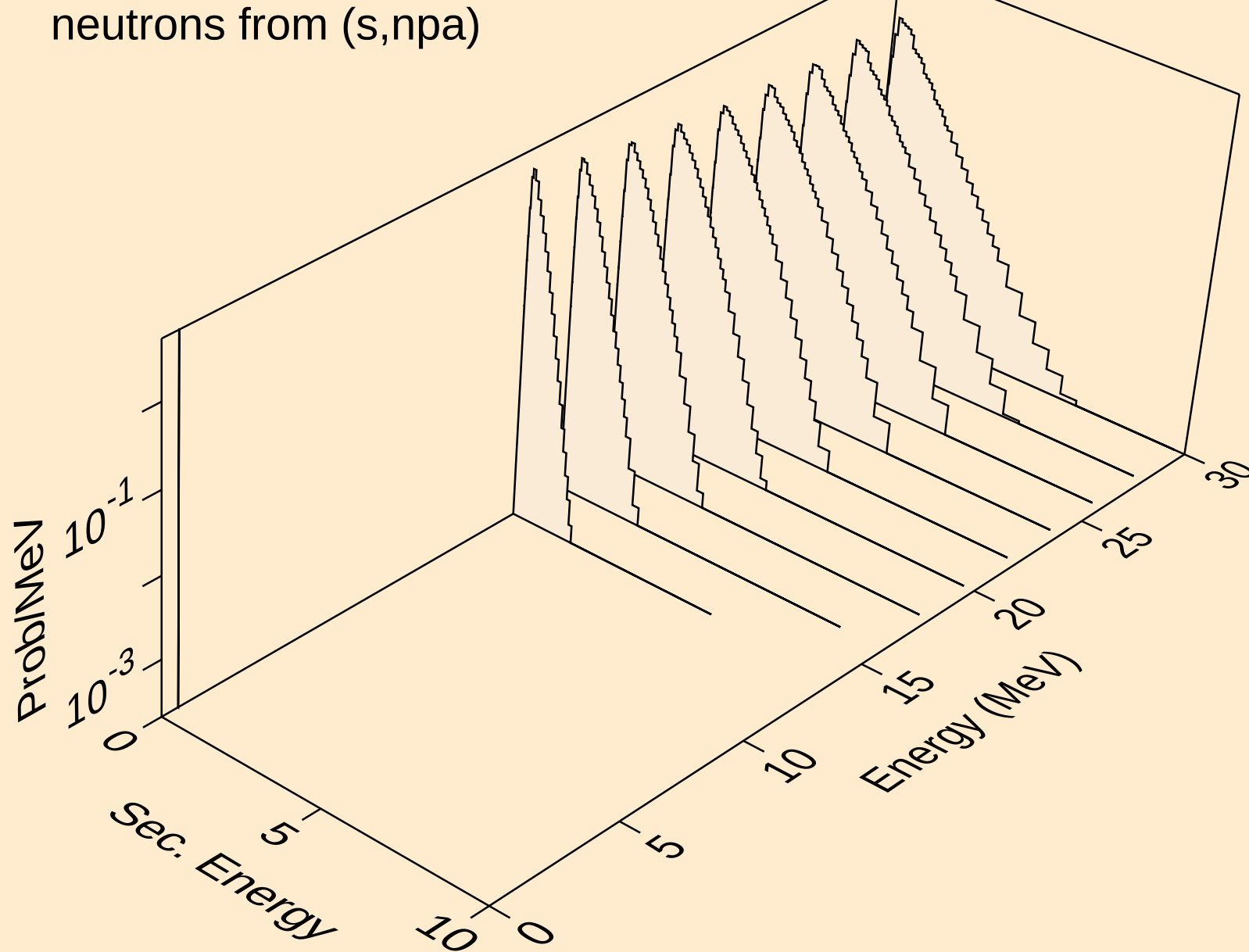
PT190 HELION ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (s,3np)



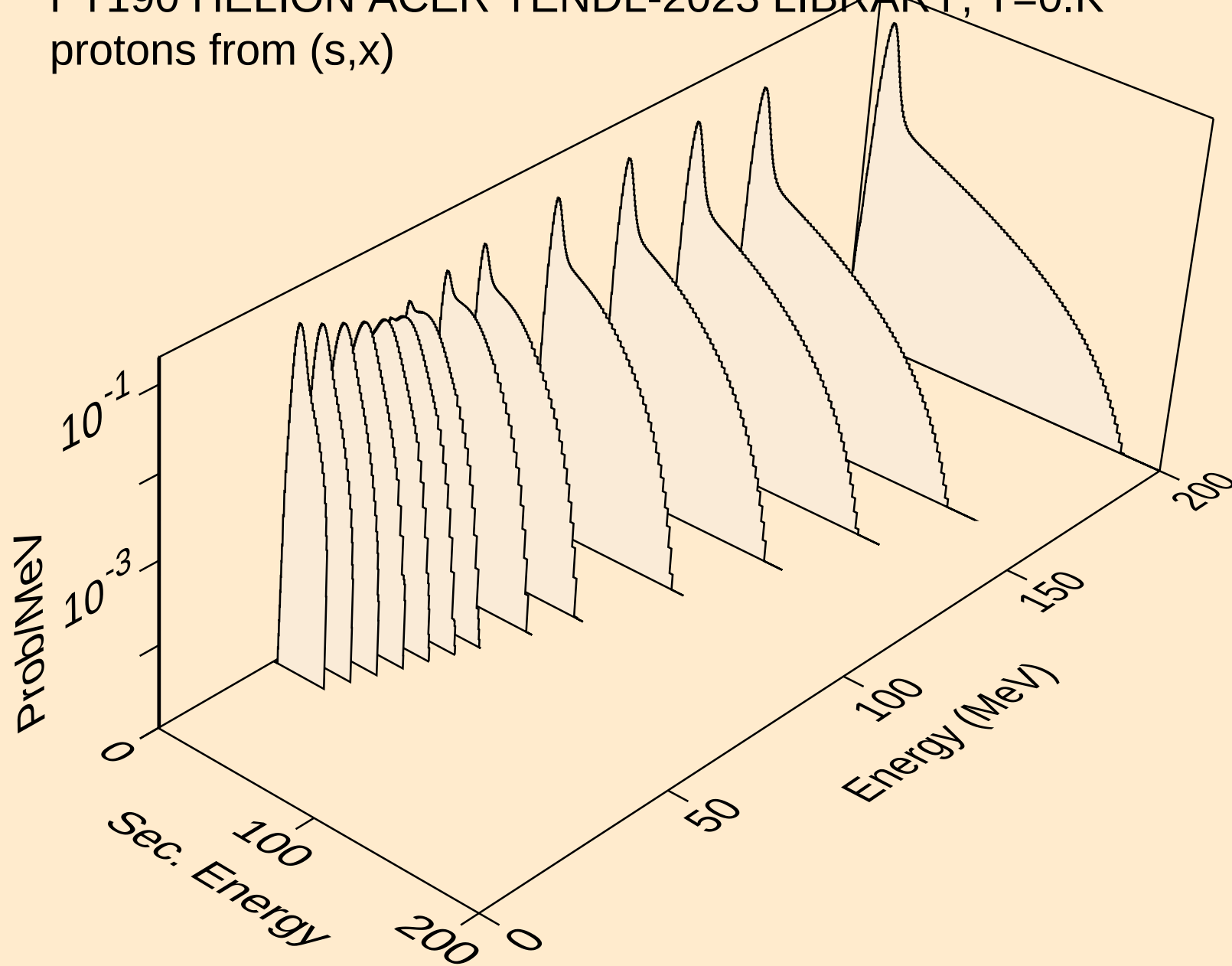
PT190 HELION ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (s,n2p)



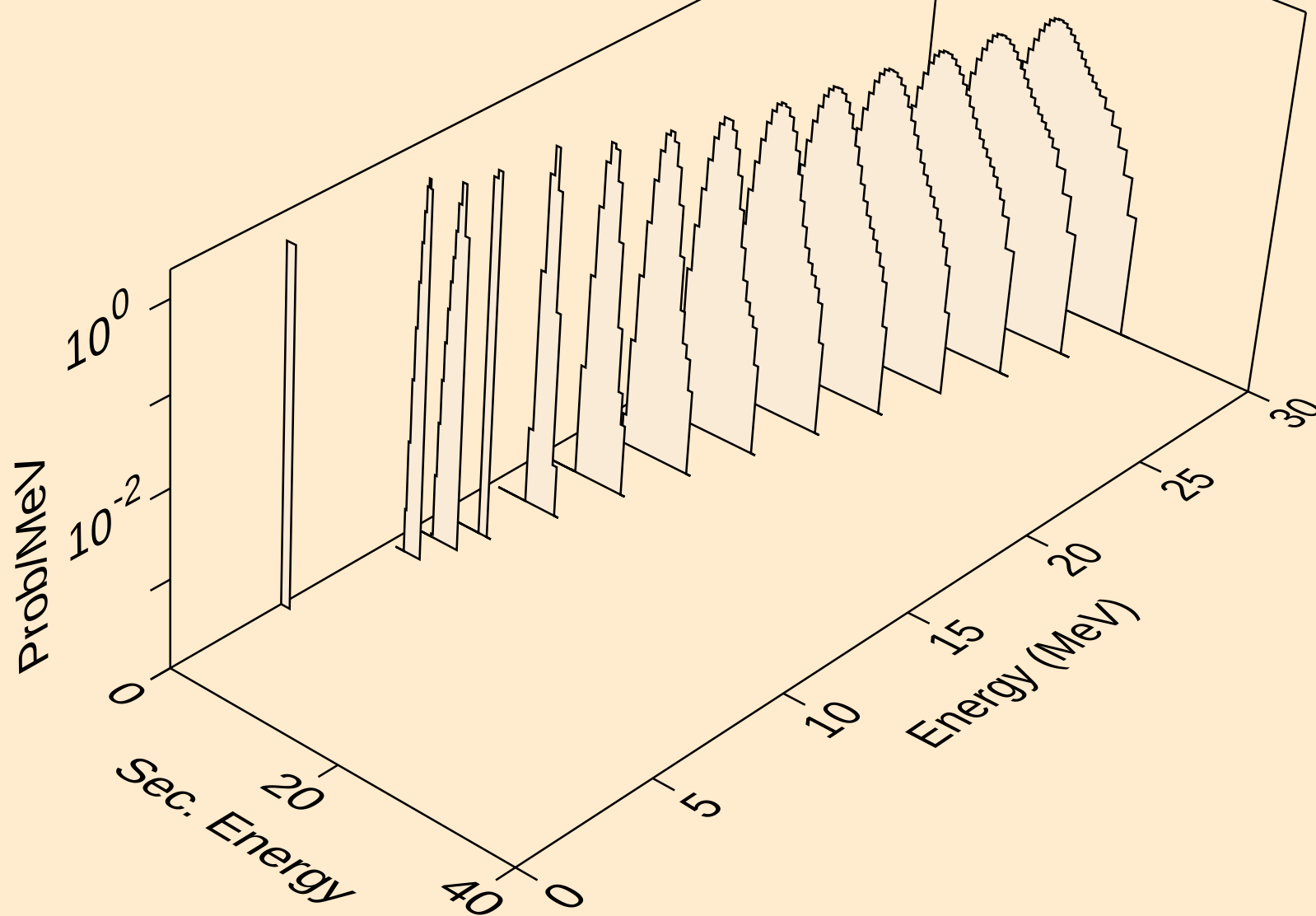
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neutrons from (s,npa)



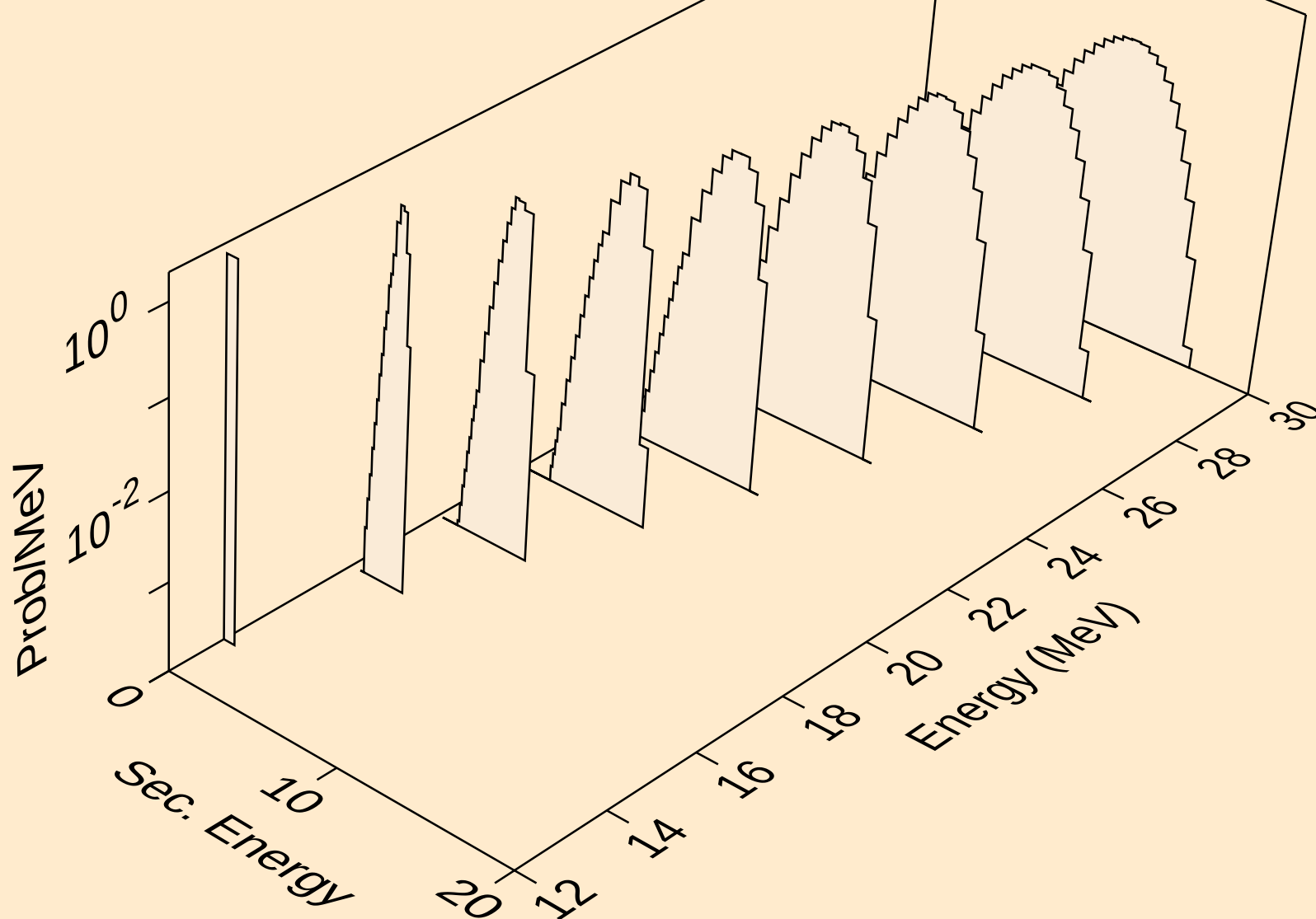
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protons from (s,x)



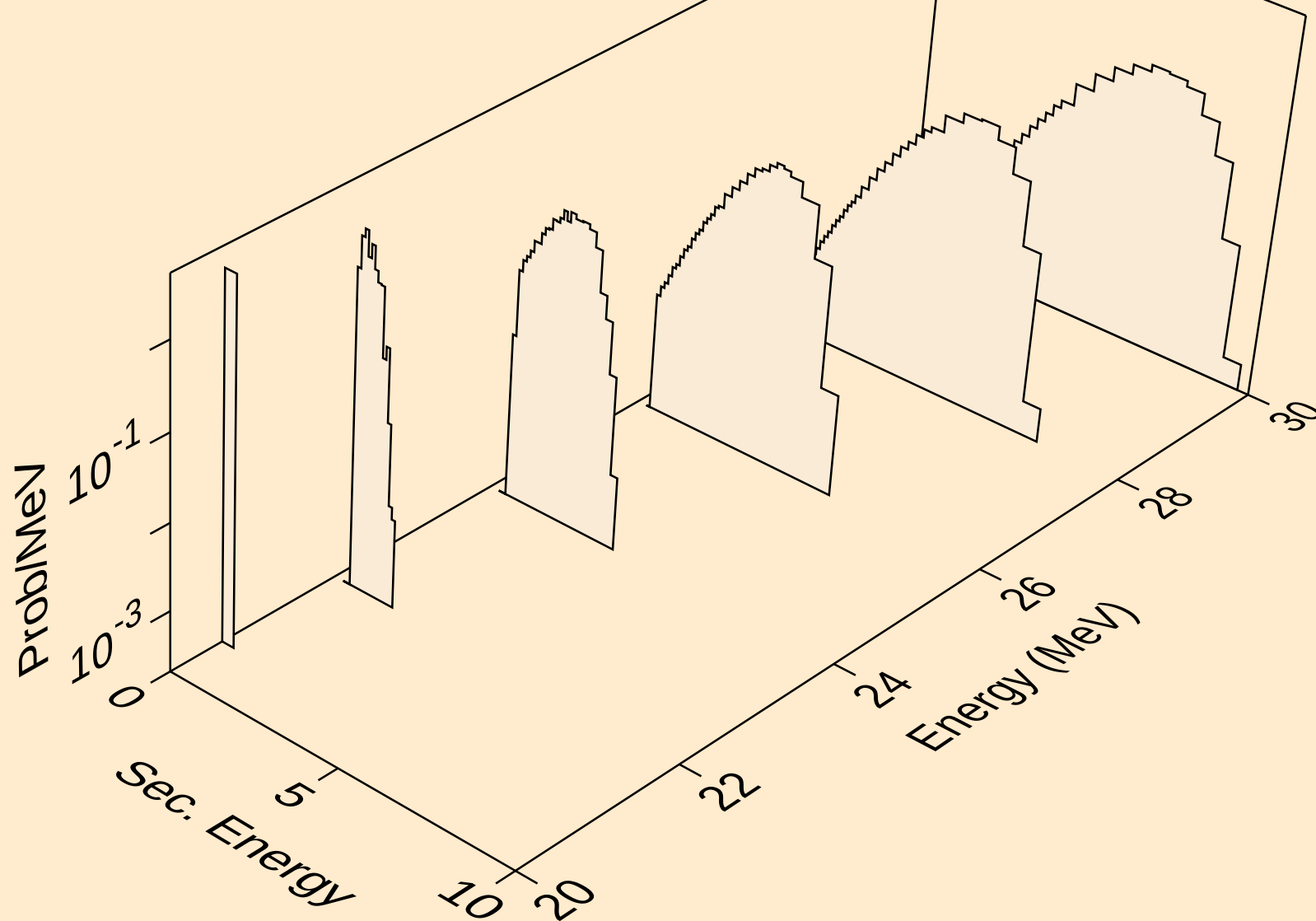
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protons from (s,n\*)p



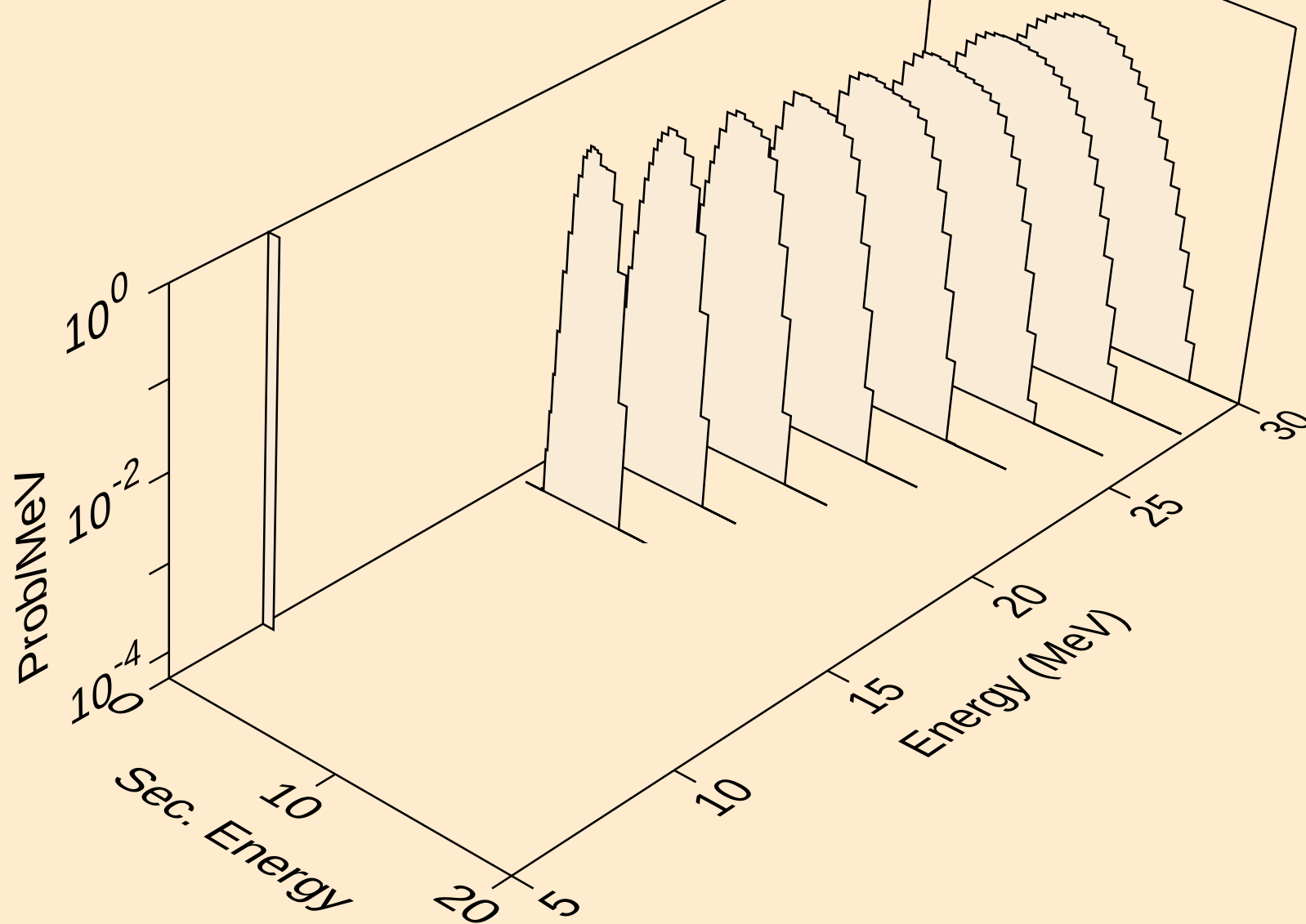
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protons from (s,2np)



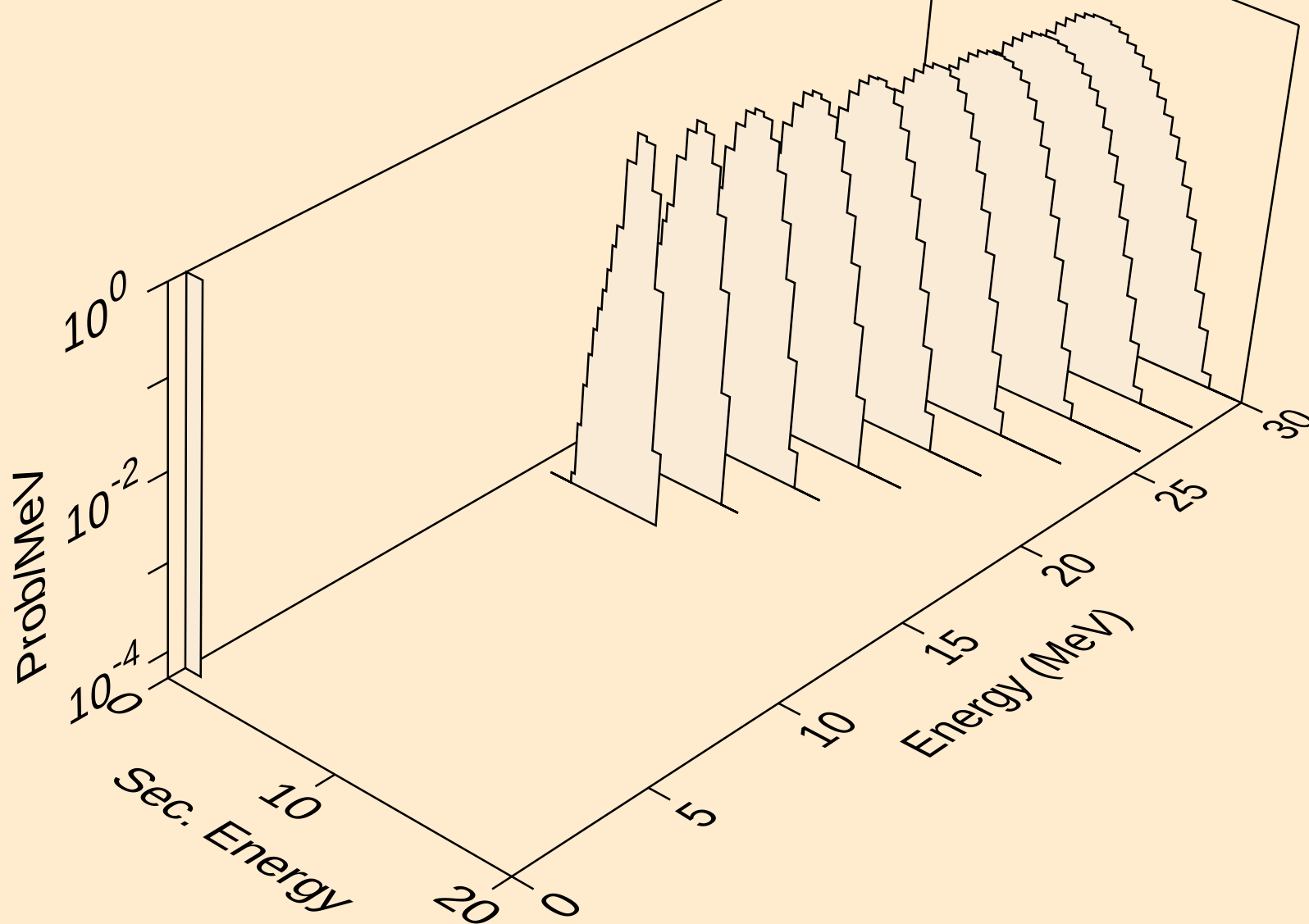
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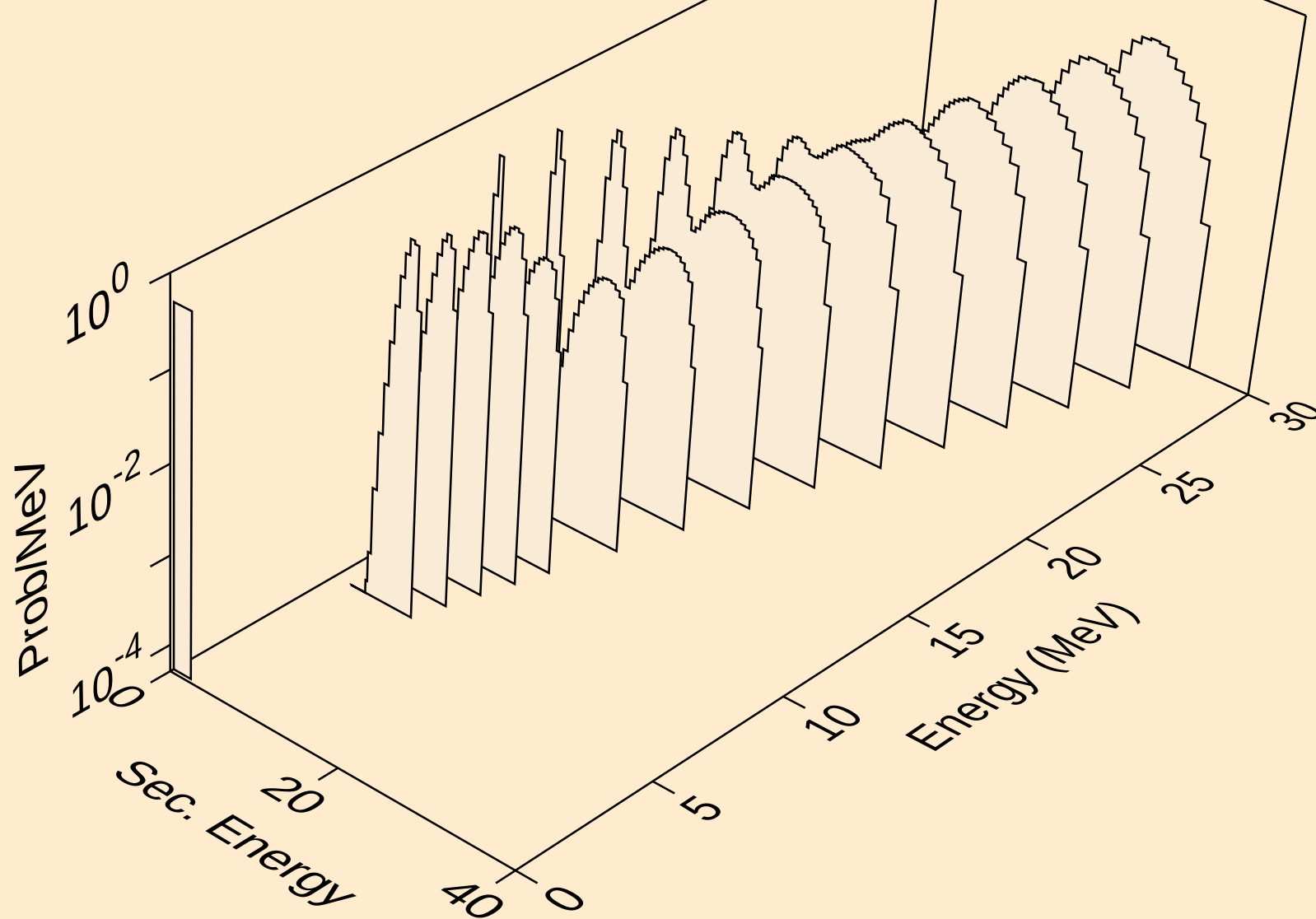
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protons from (s,n2p)



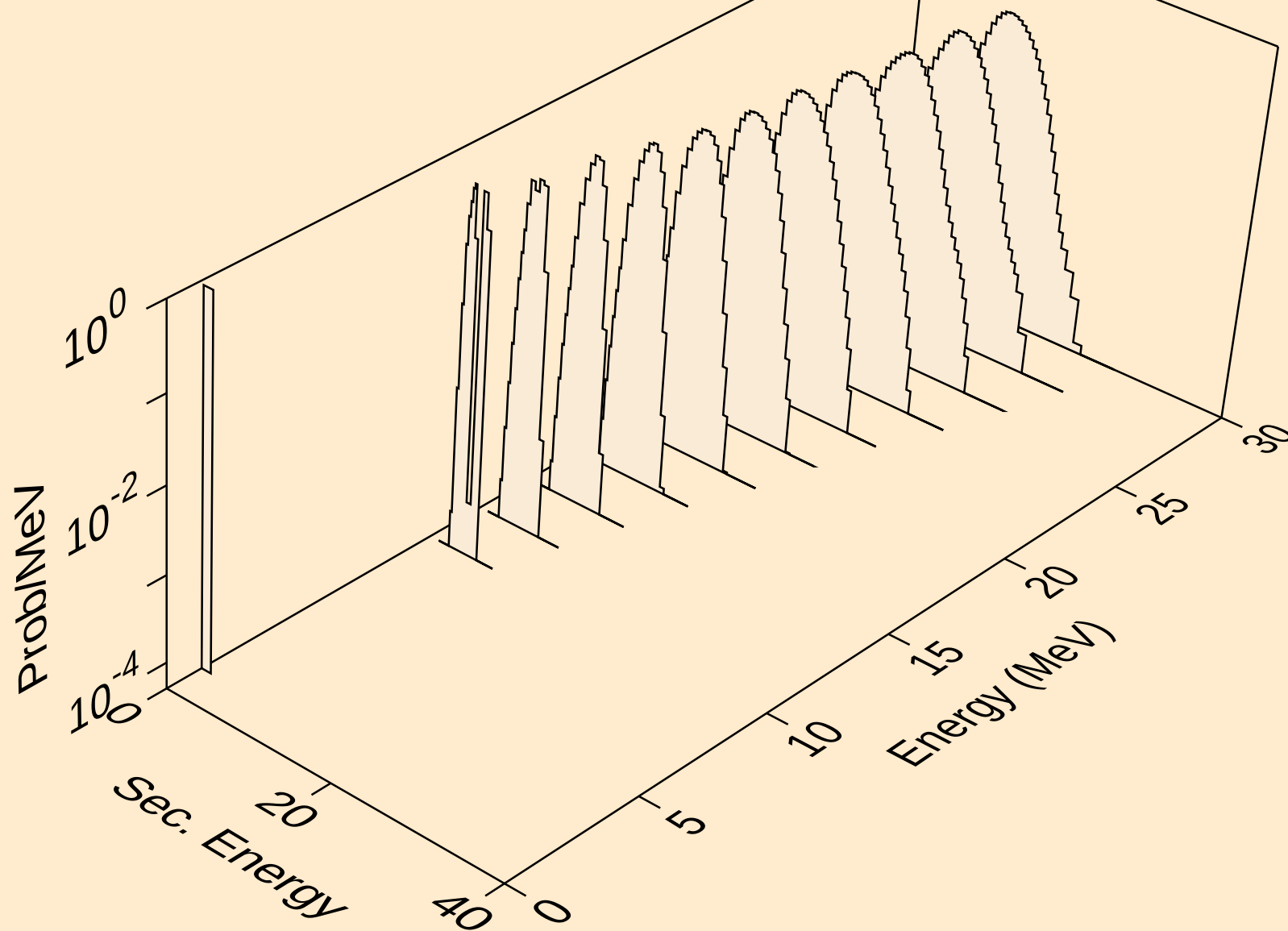
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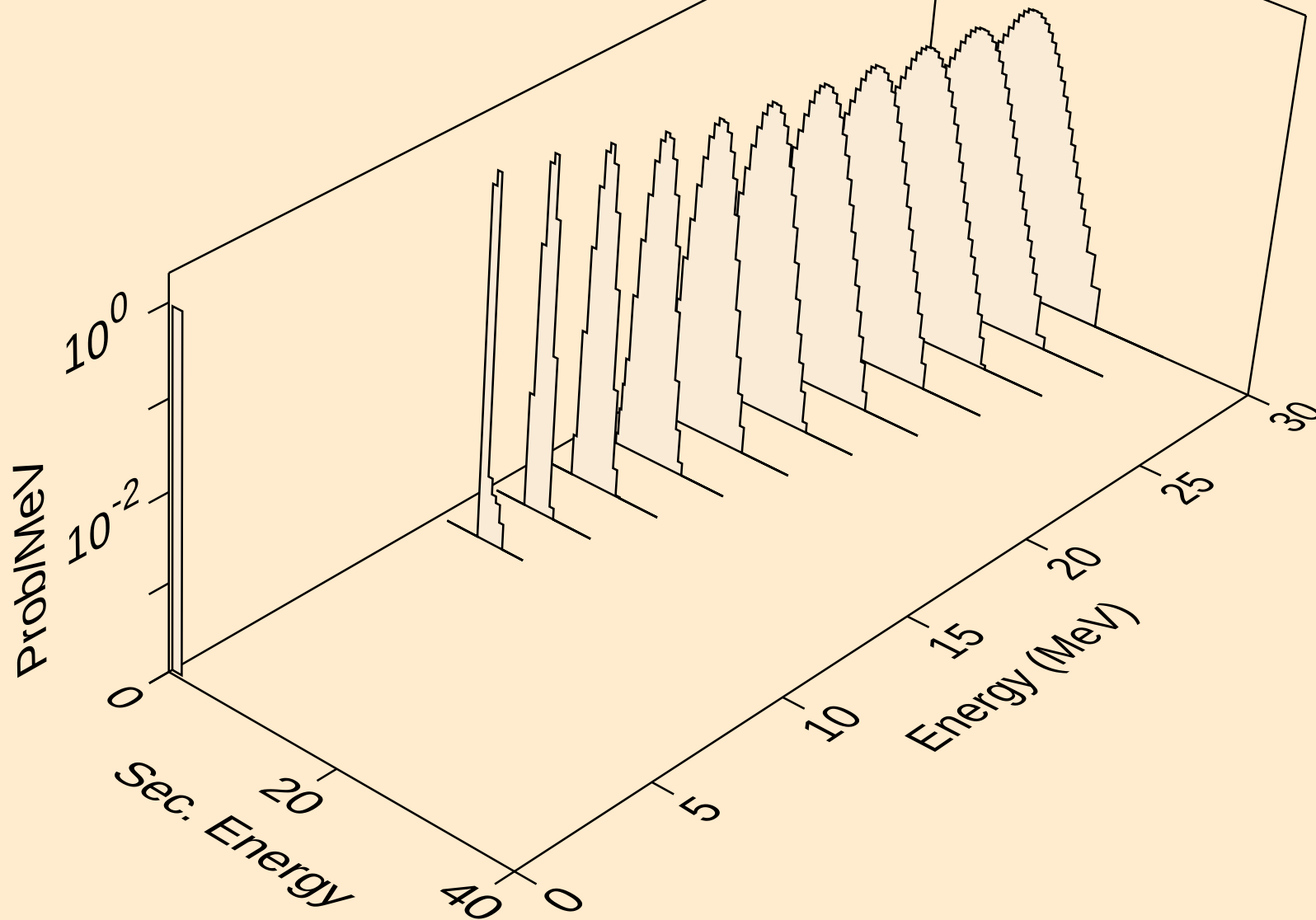
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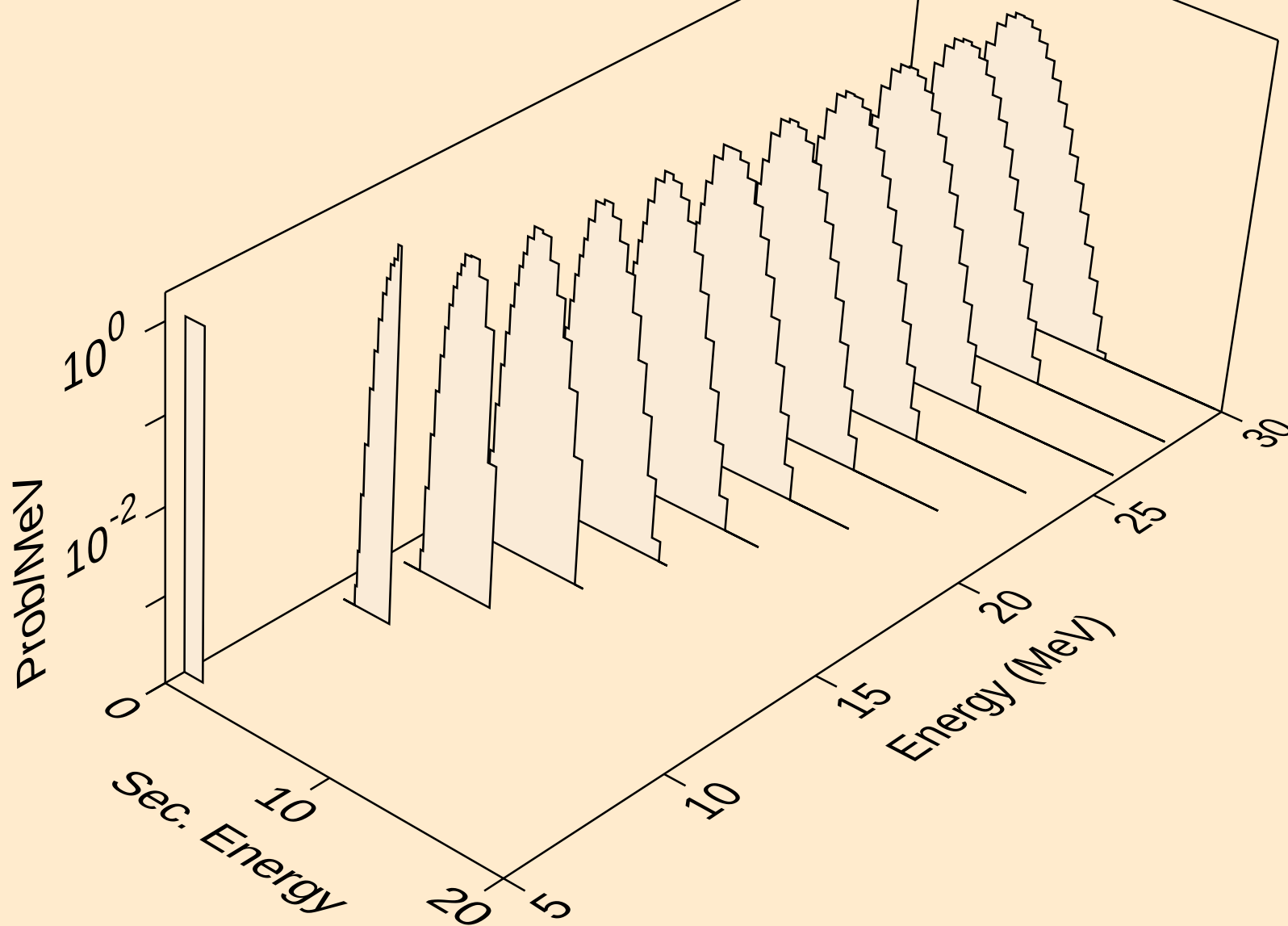
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protons from (s,2p)



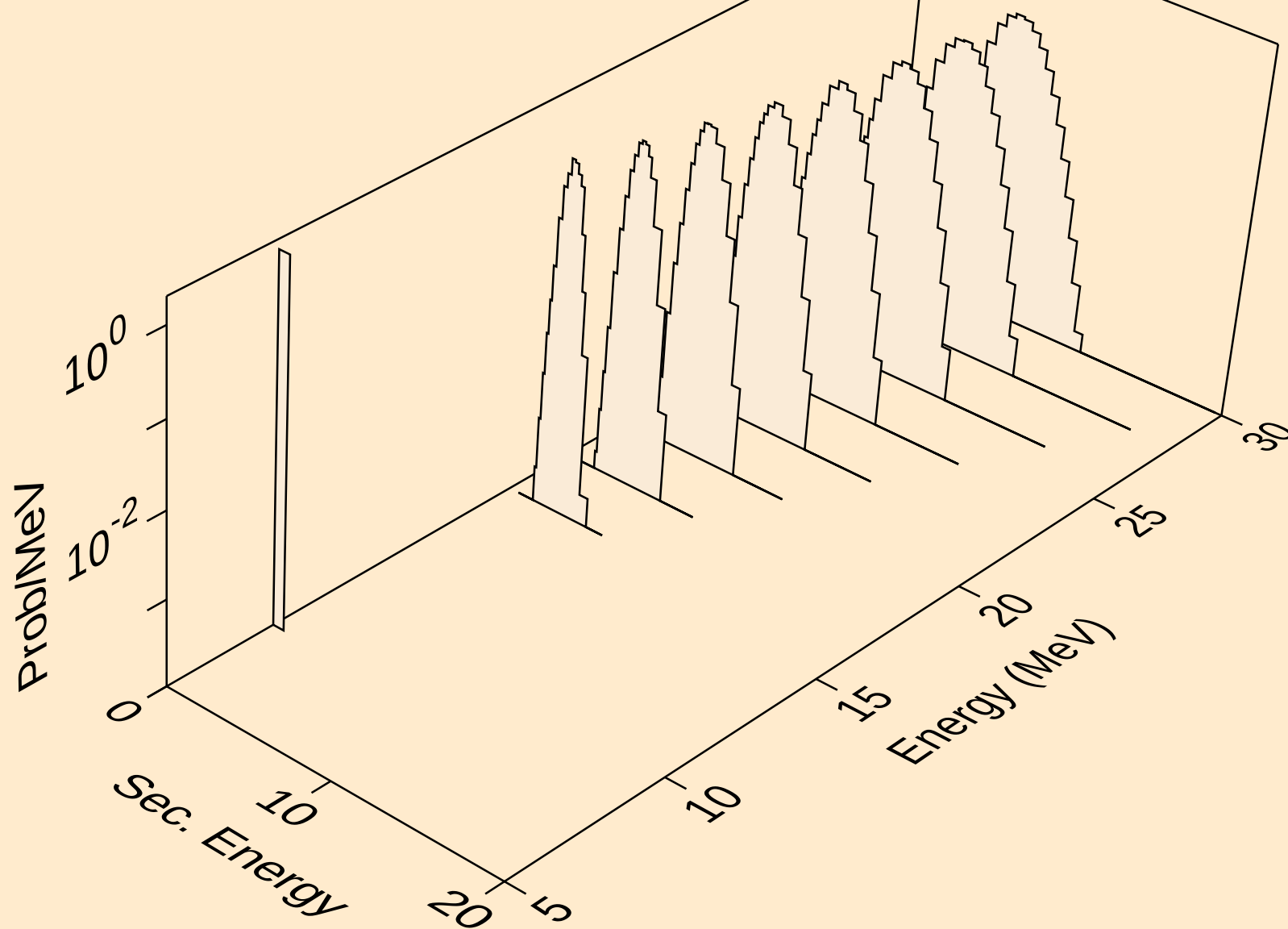
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protons from (s,pa)



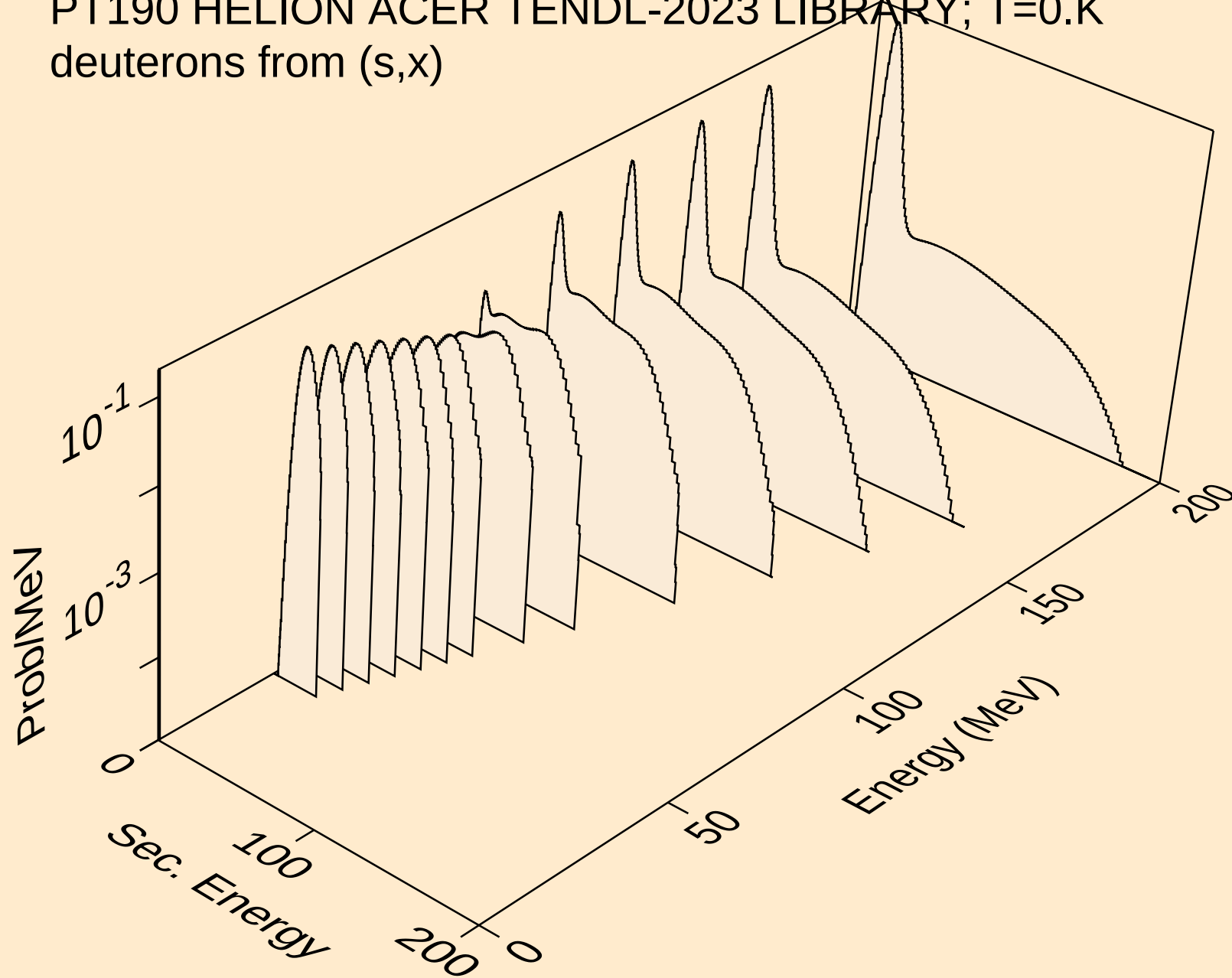
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protons from (s,pd)



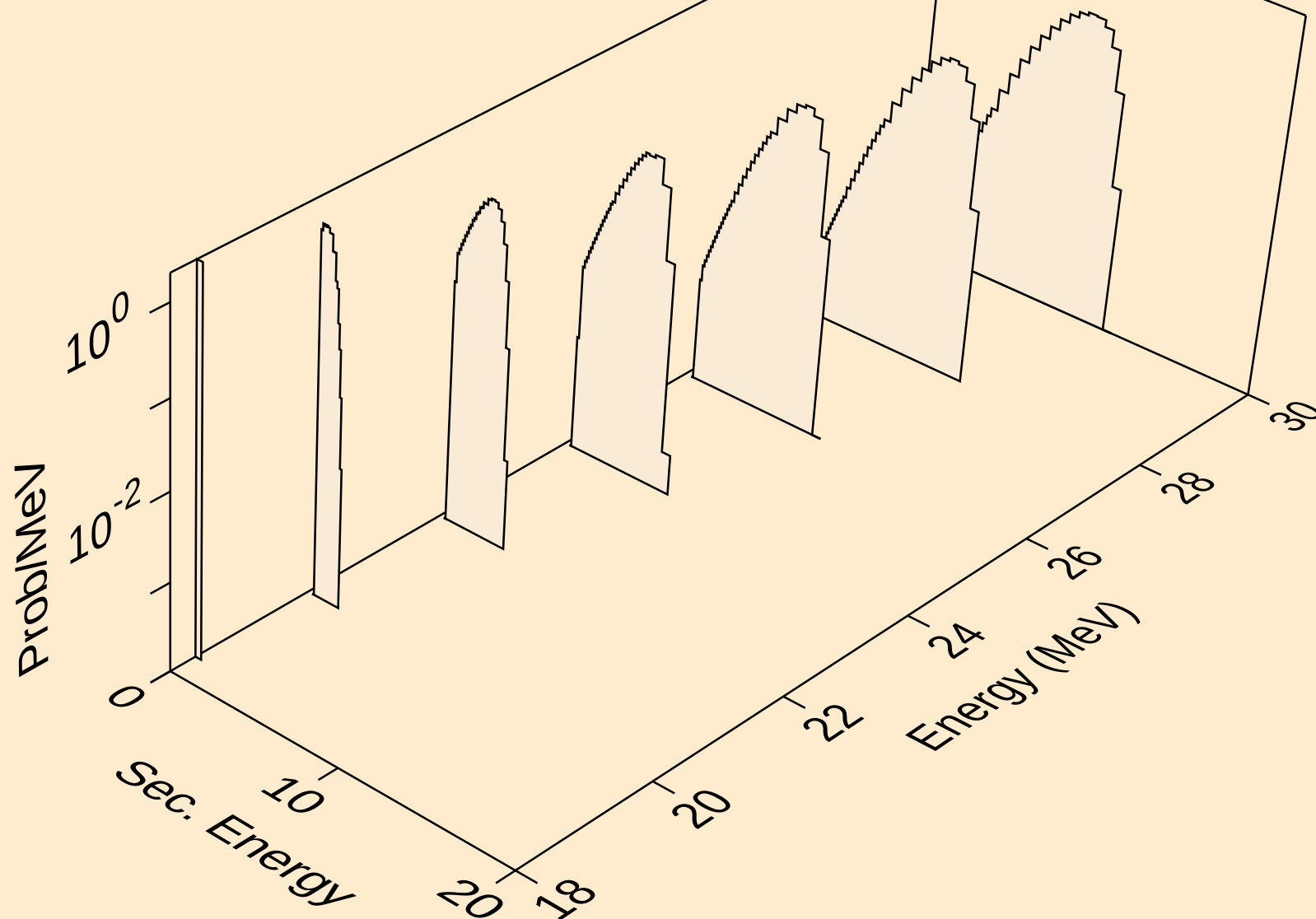
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protons from (s,pt)



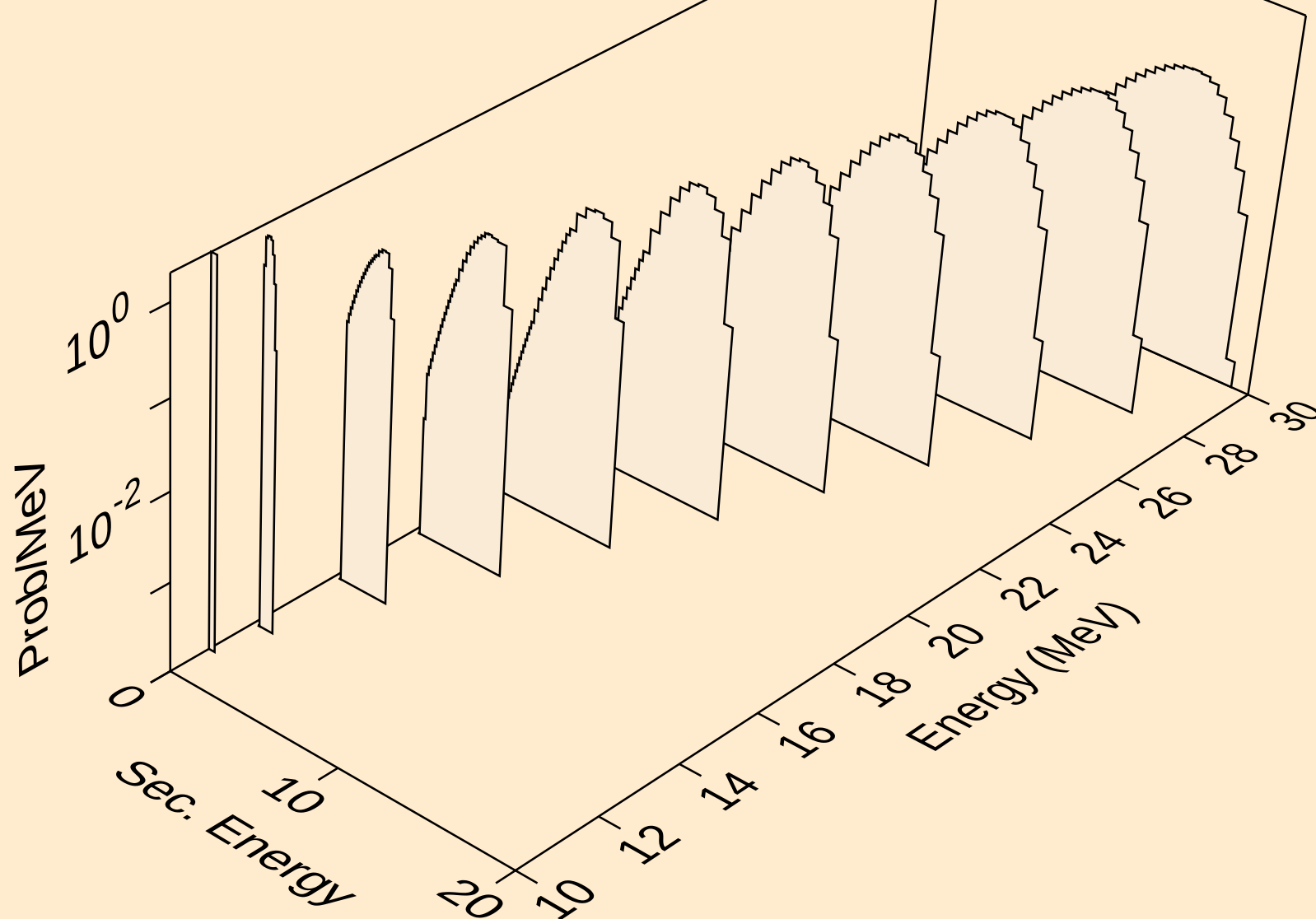
PT190 HELION ACER TENDL-2023 LIBRARY; T=0.K  
deuterons from (s,x)



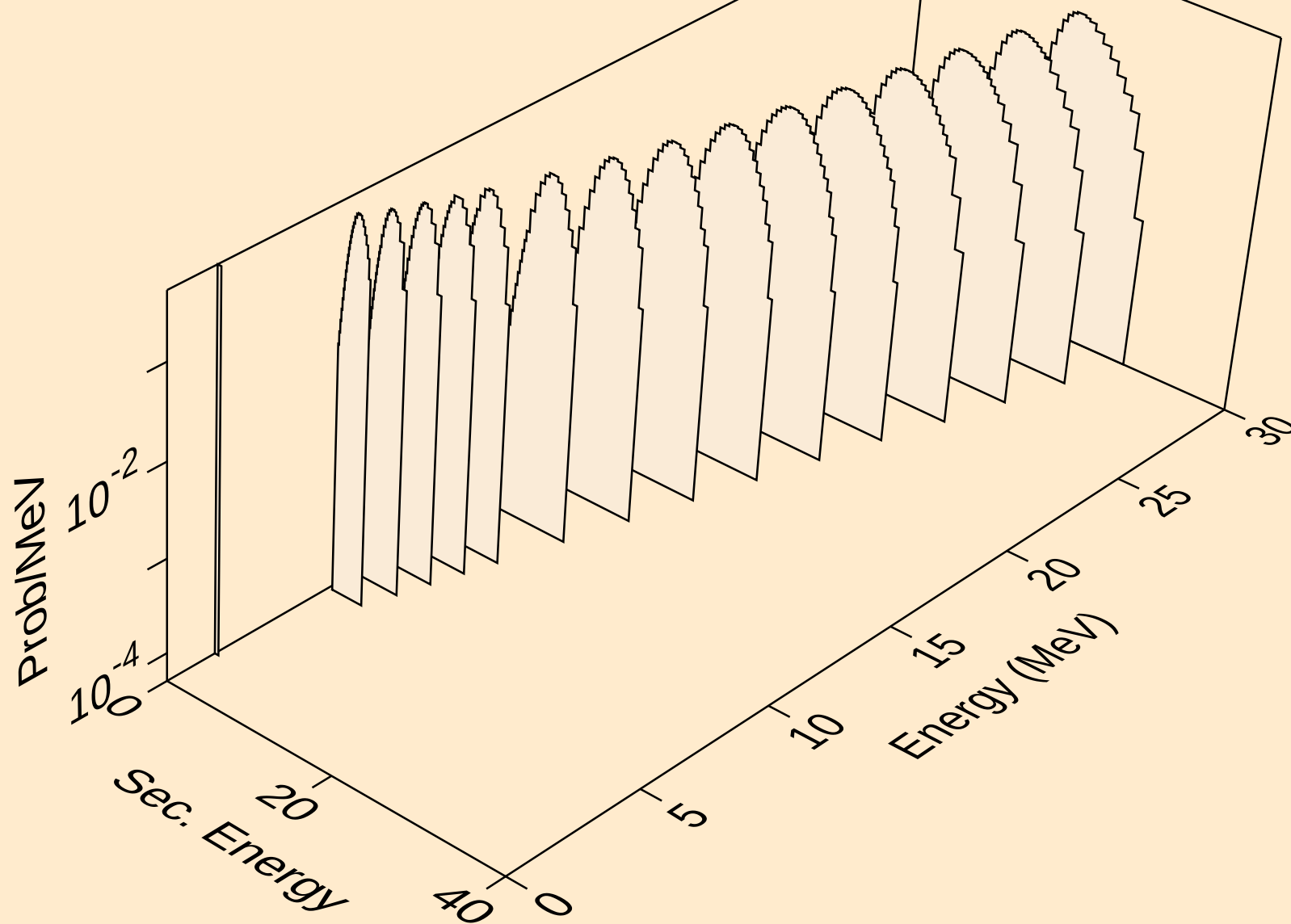
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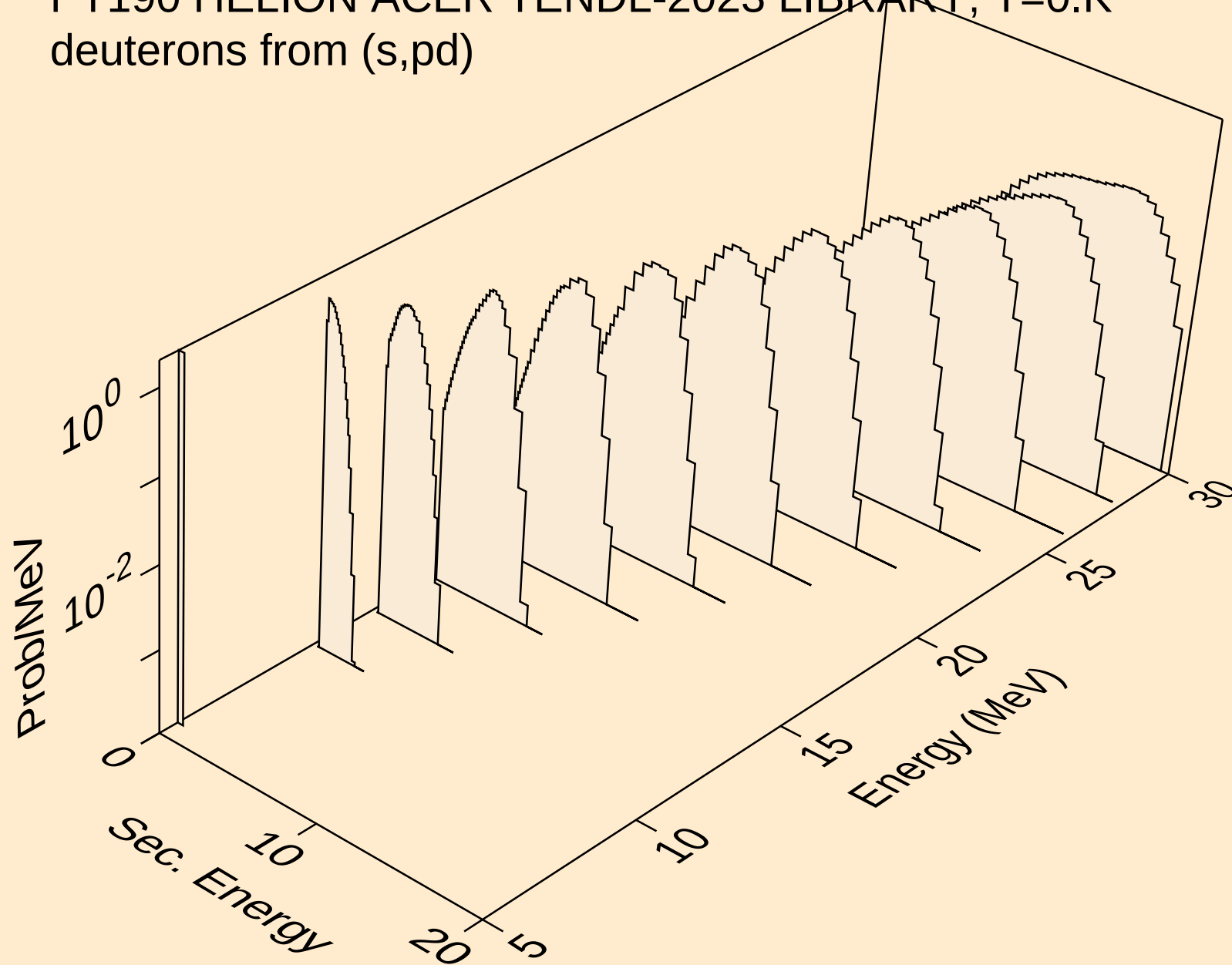
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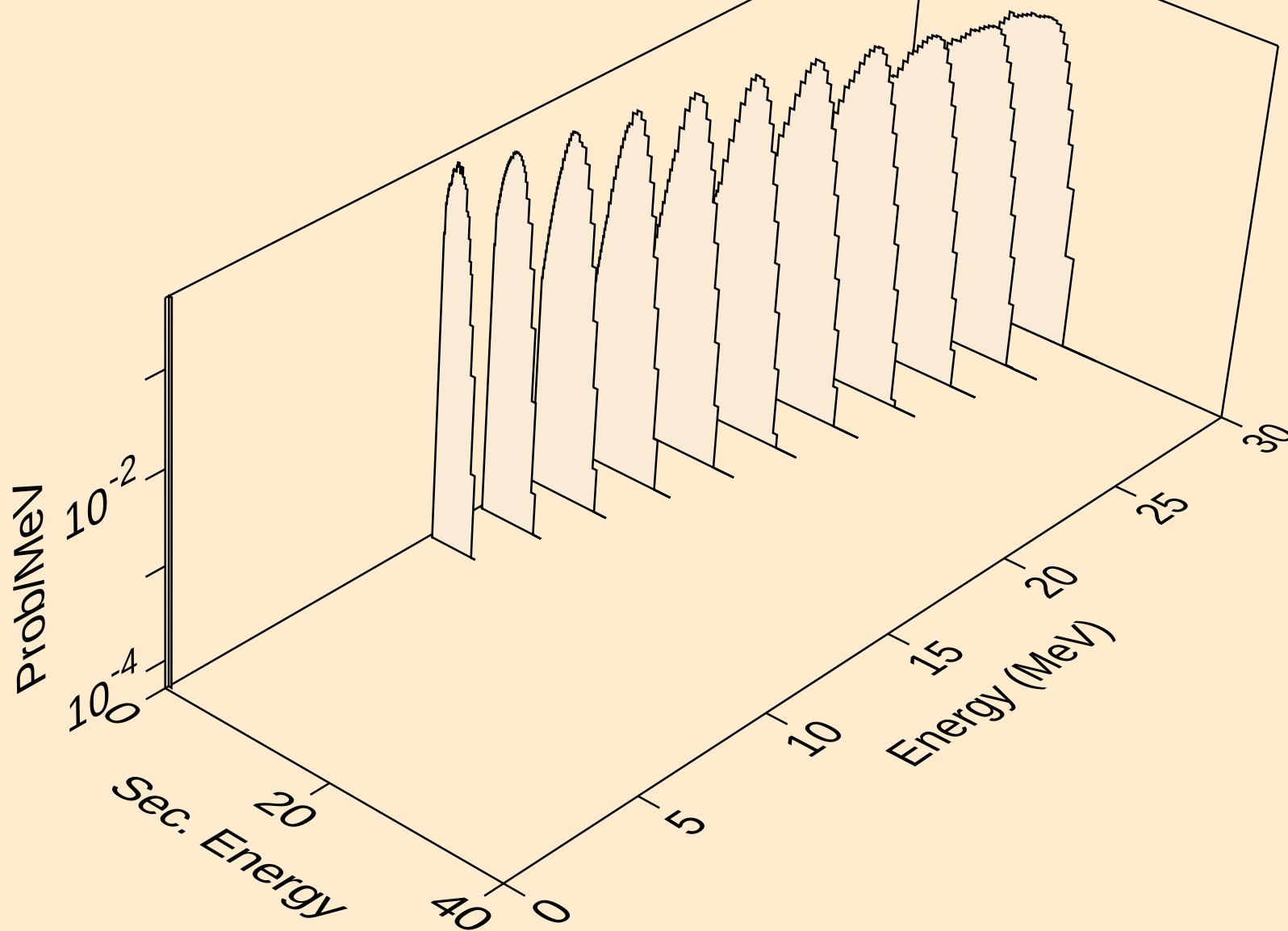
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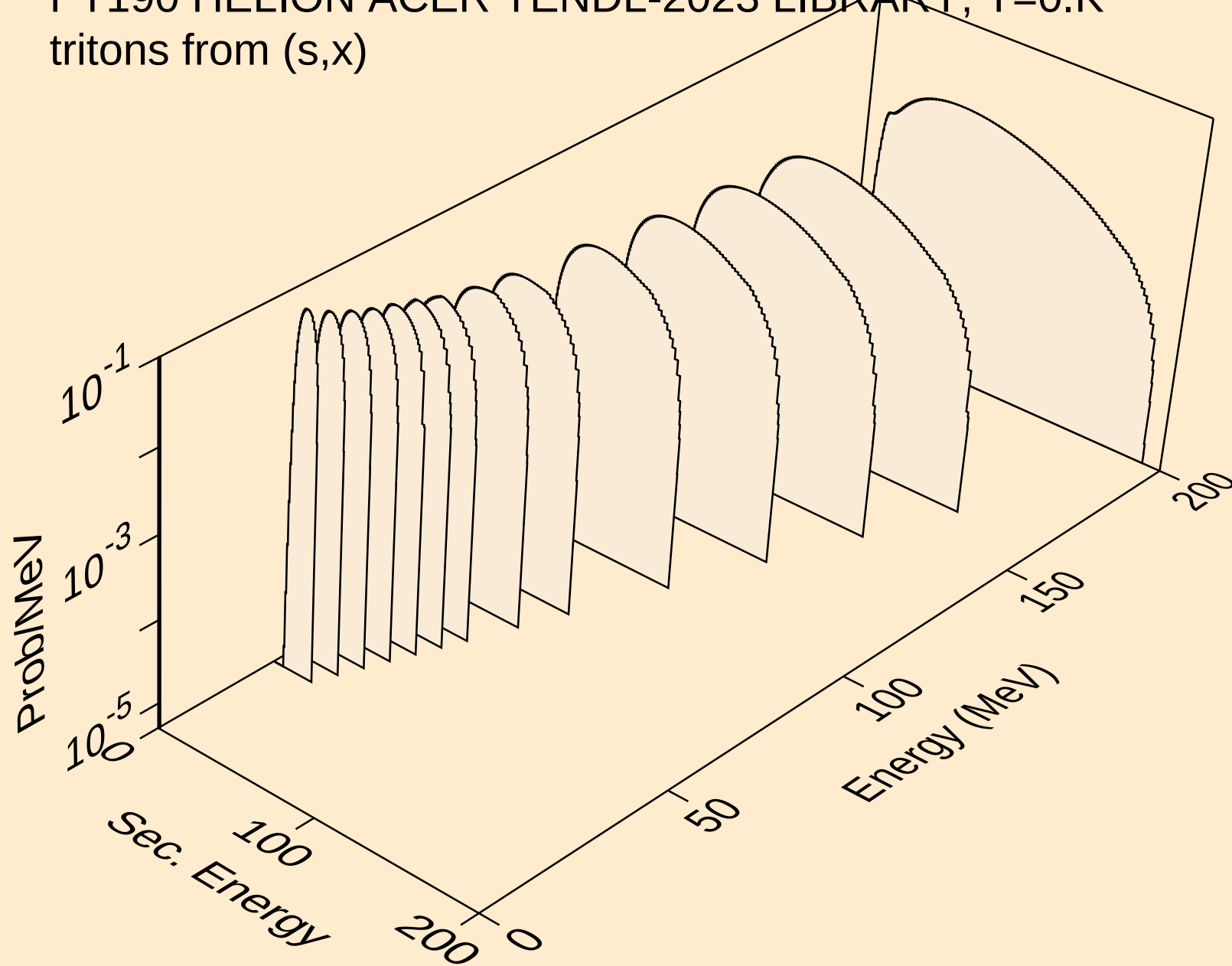
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deuterons from (s,pd)



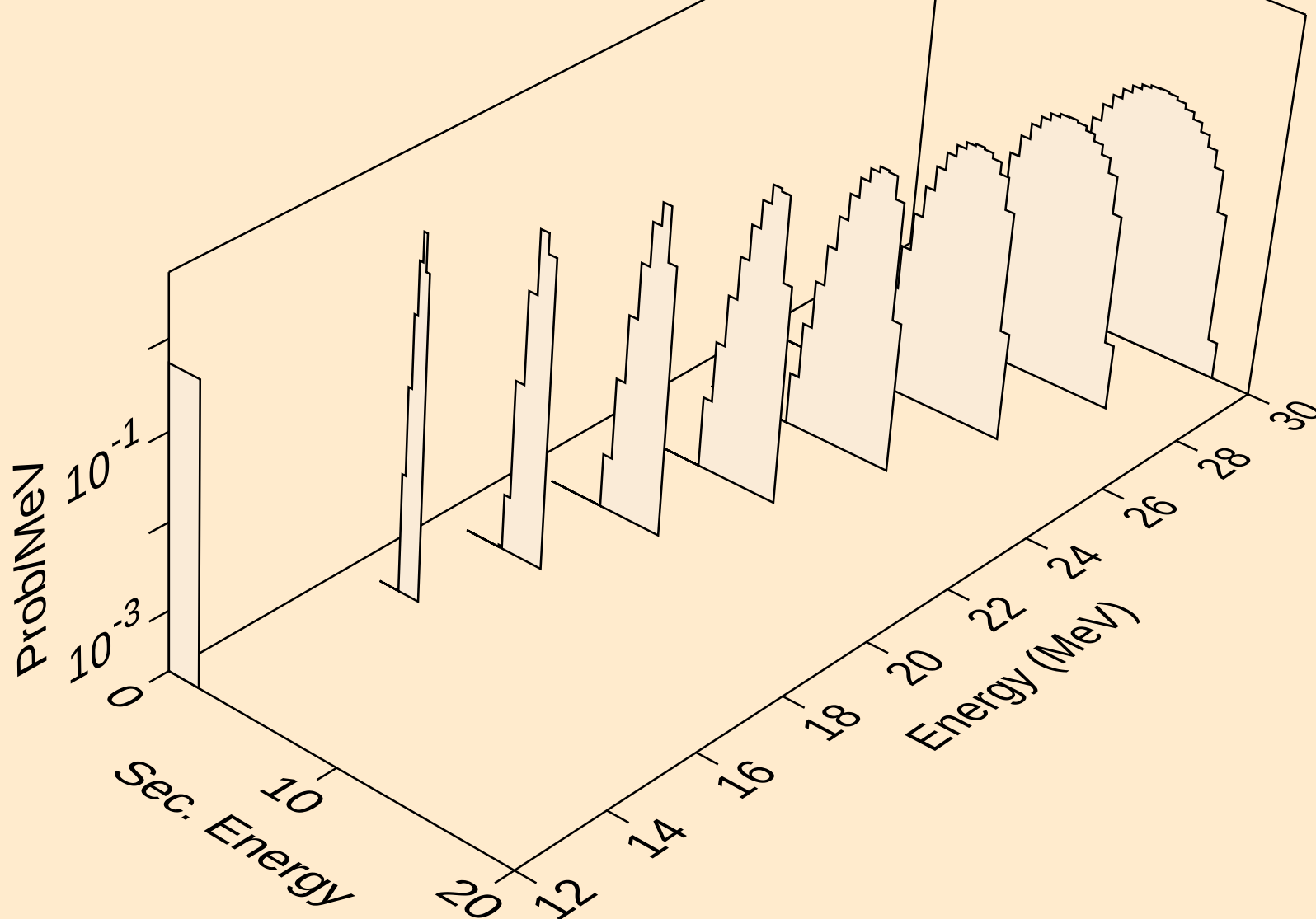
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deuterons from (s,da)



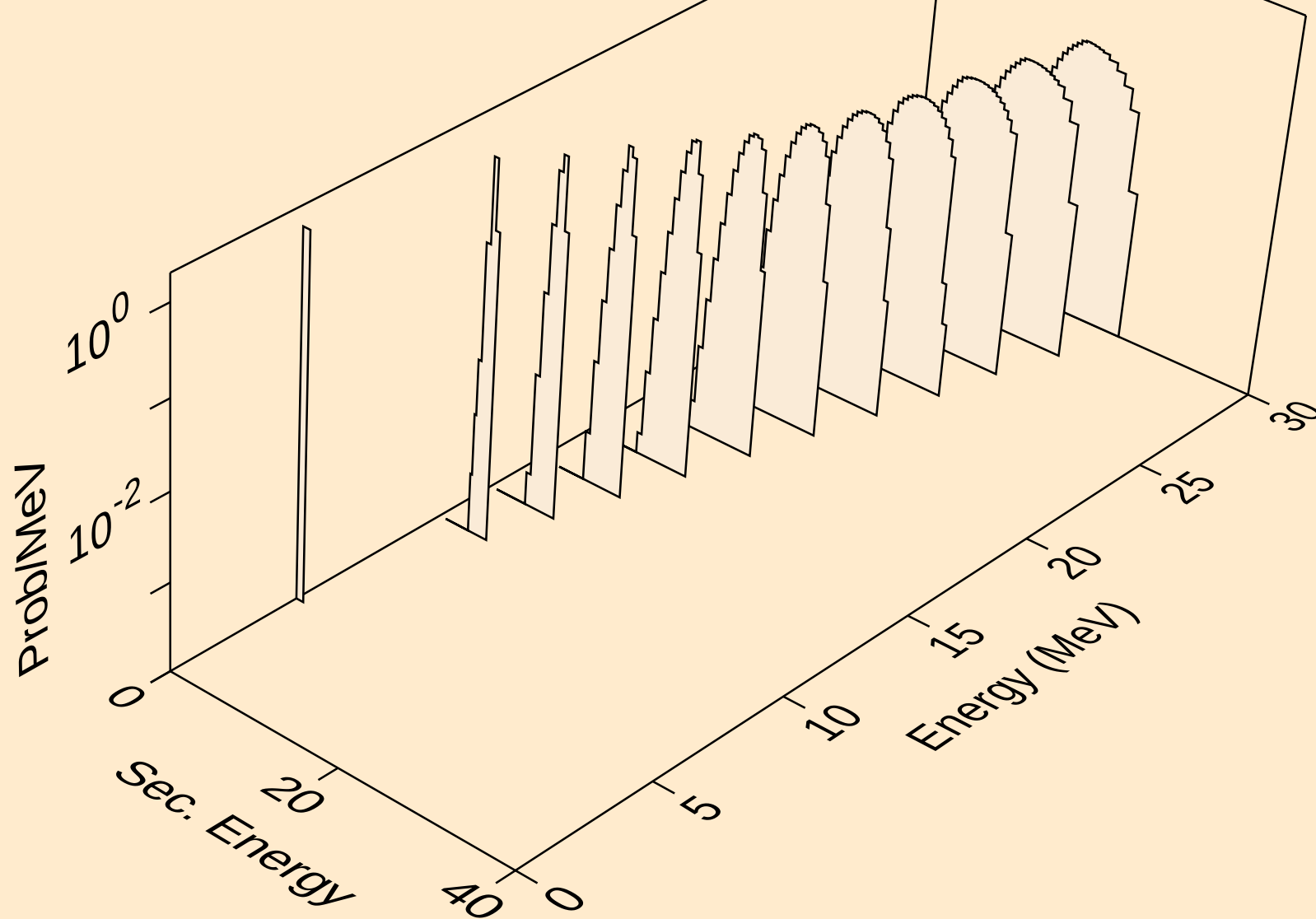
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tritons from (s,x)



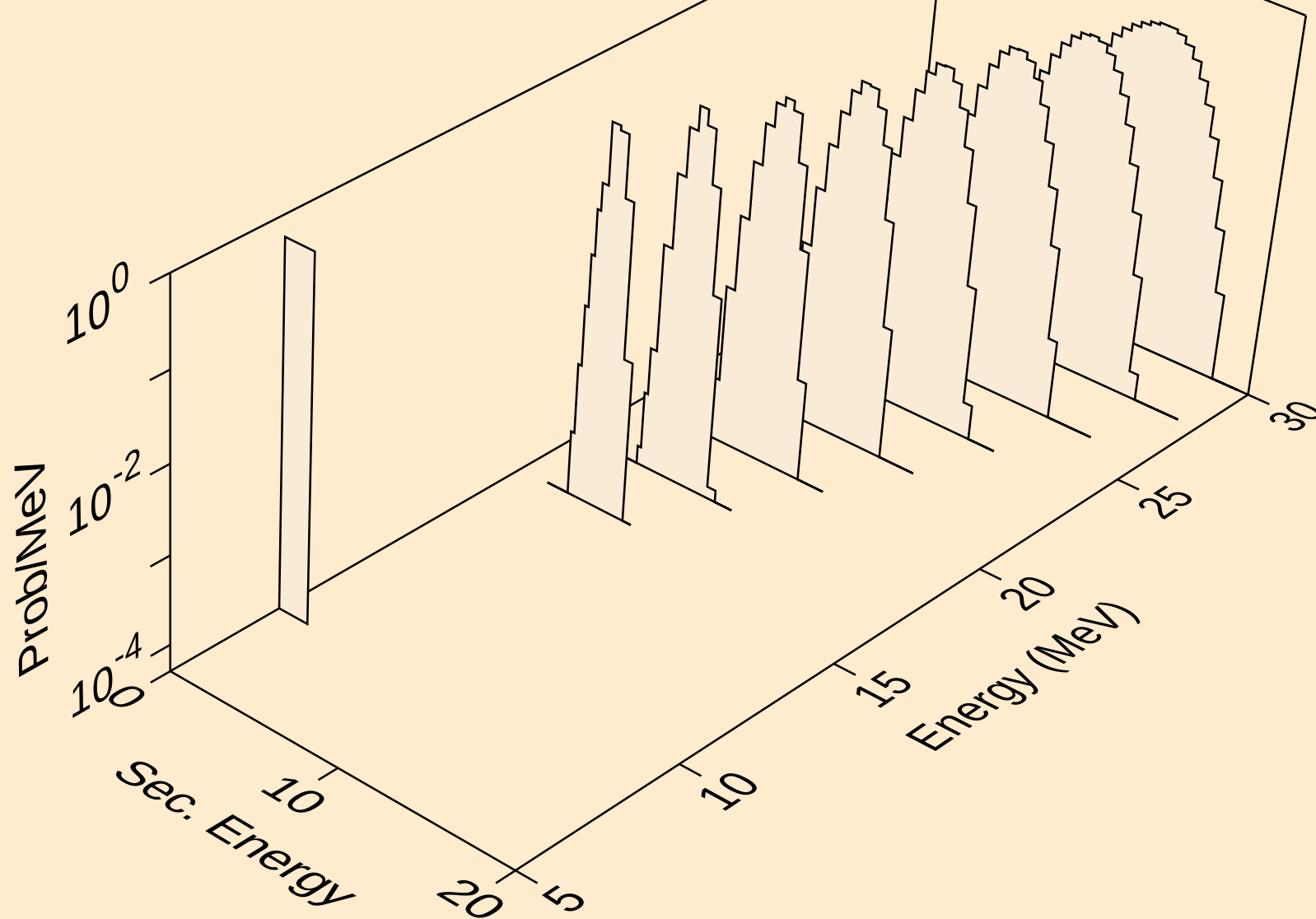
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tritons from (s,n\*)t



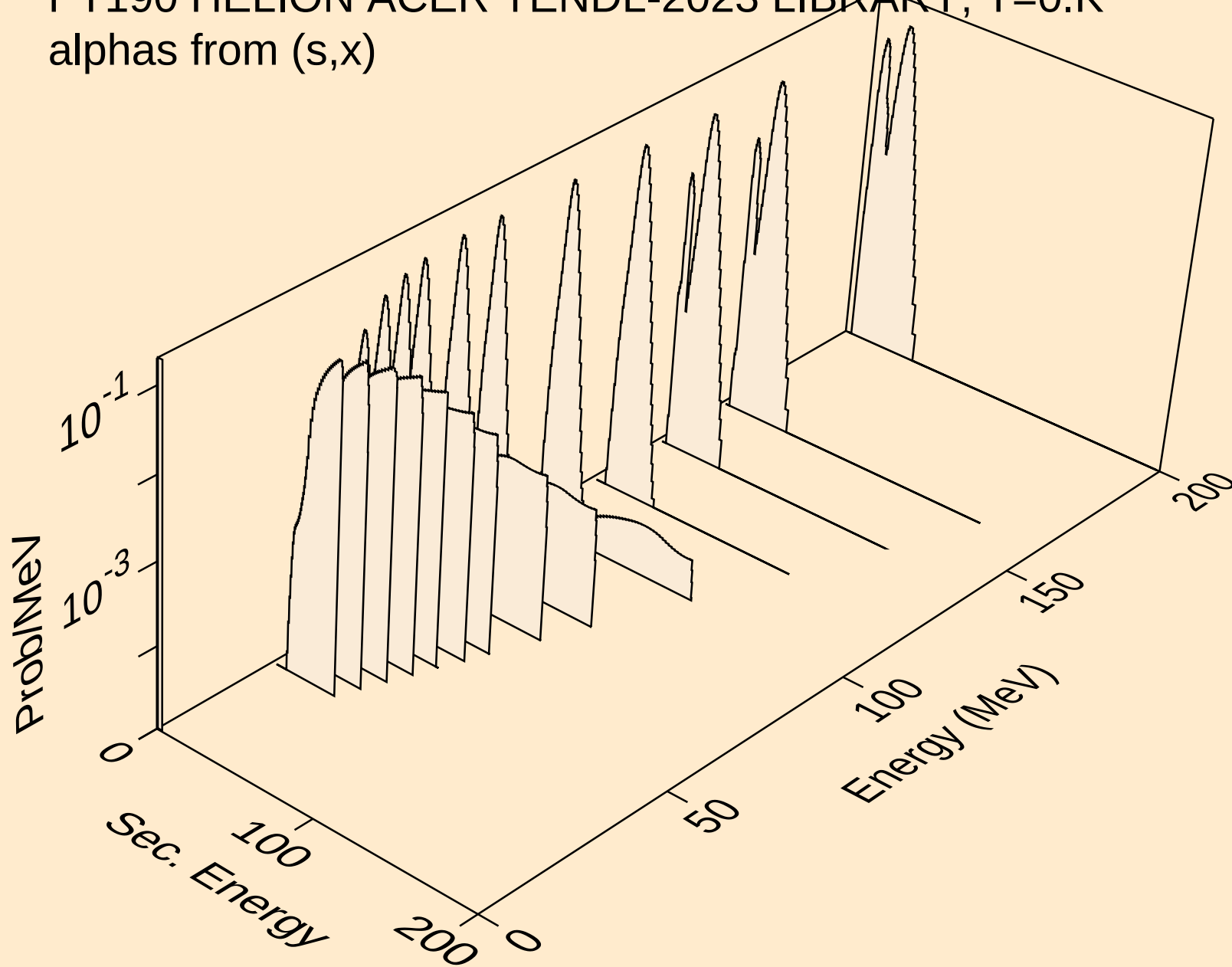
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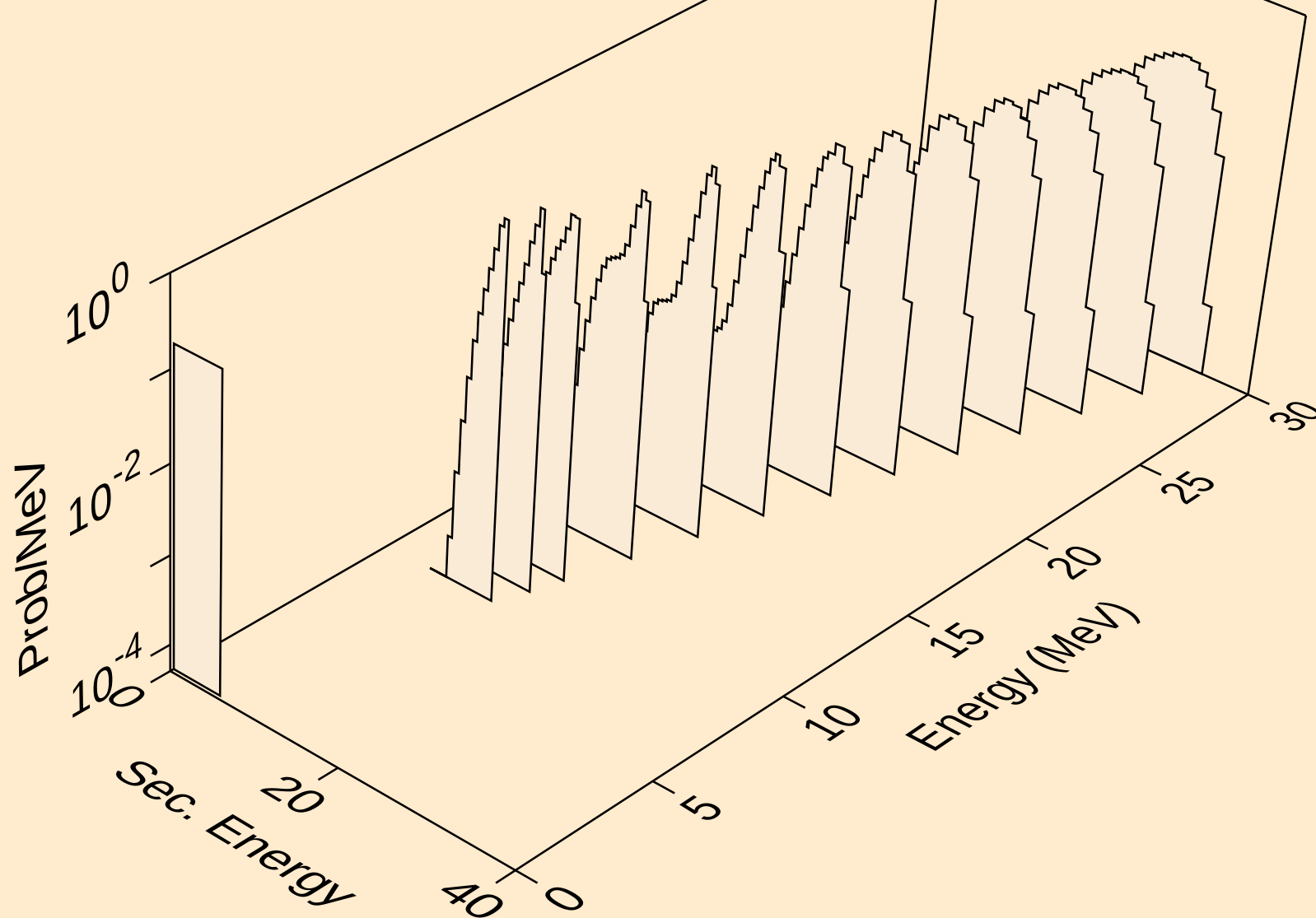
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tritons from (s,pt)



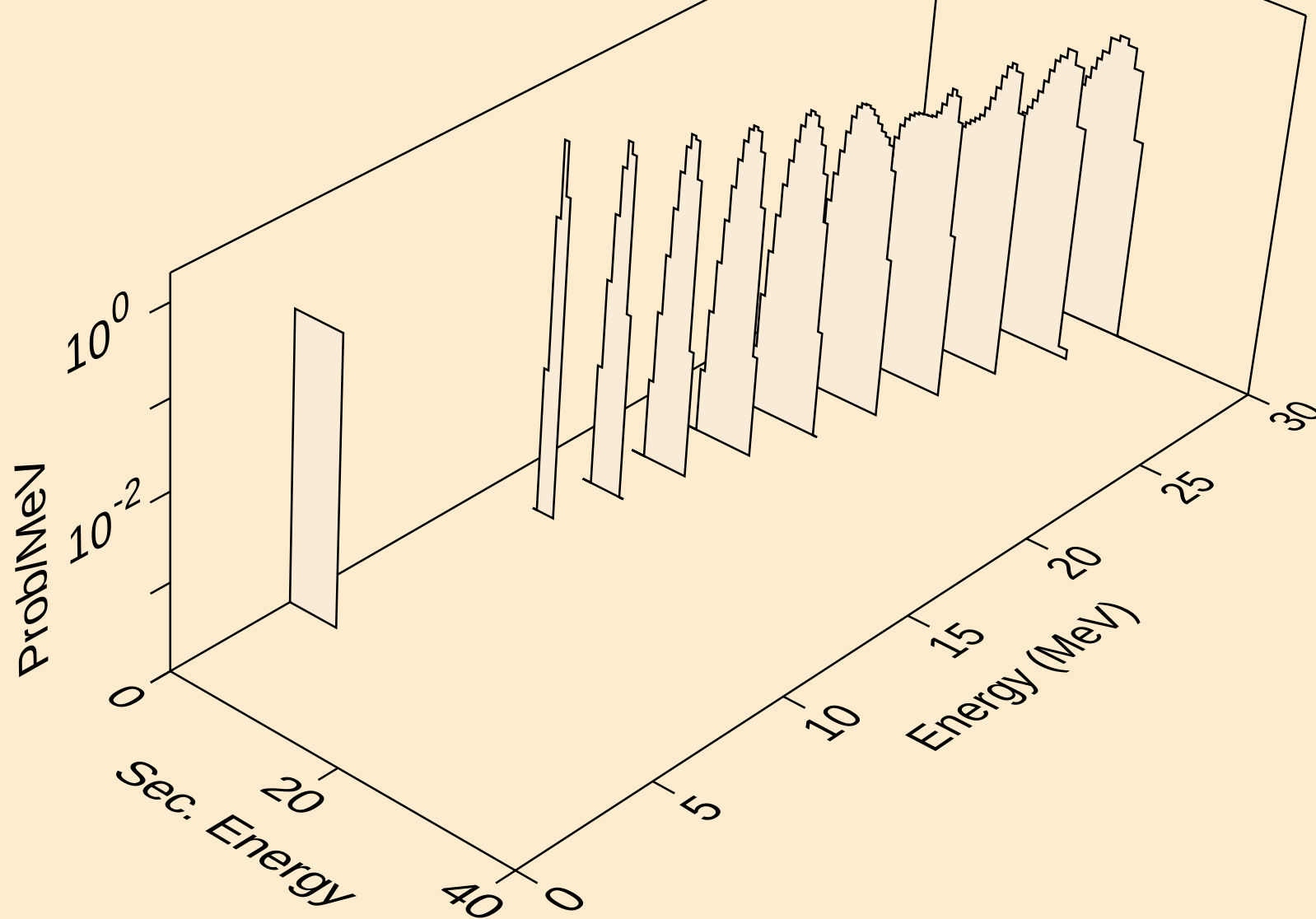
PT190 HELION ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (s,x)



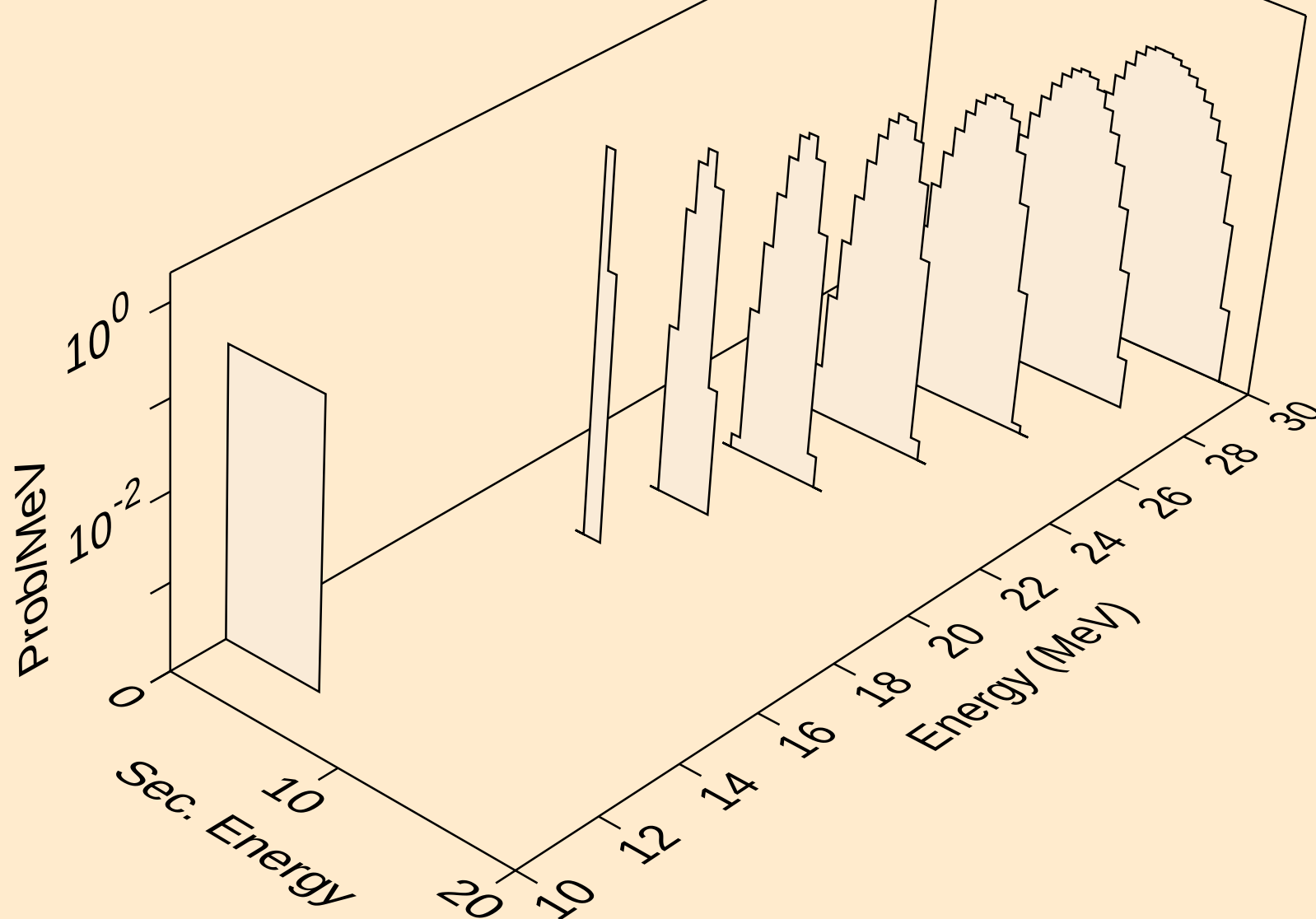
PT190 HELION ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (s,n\*)a



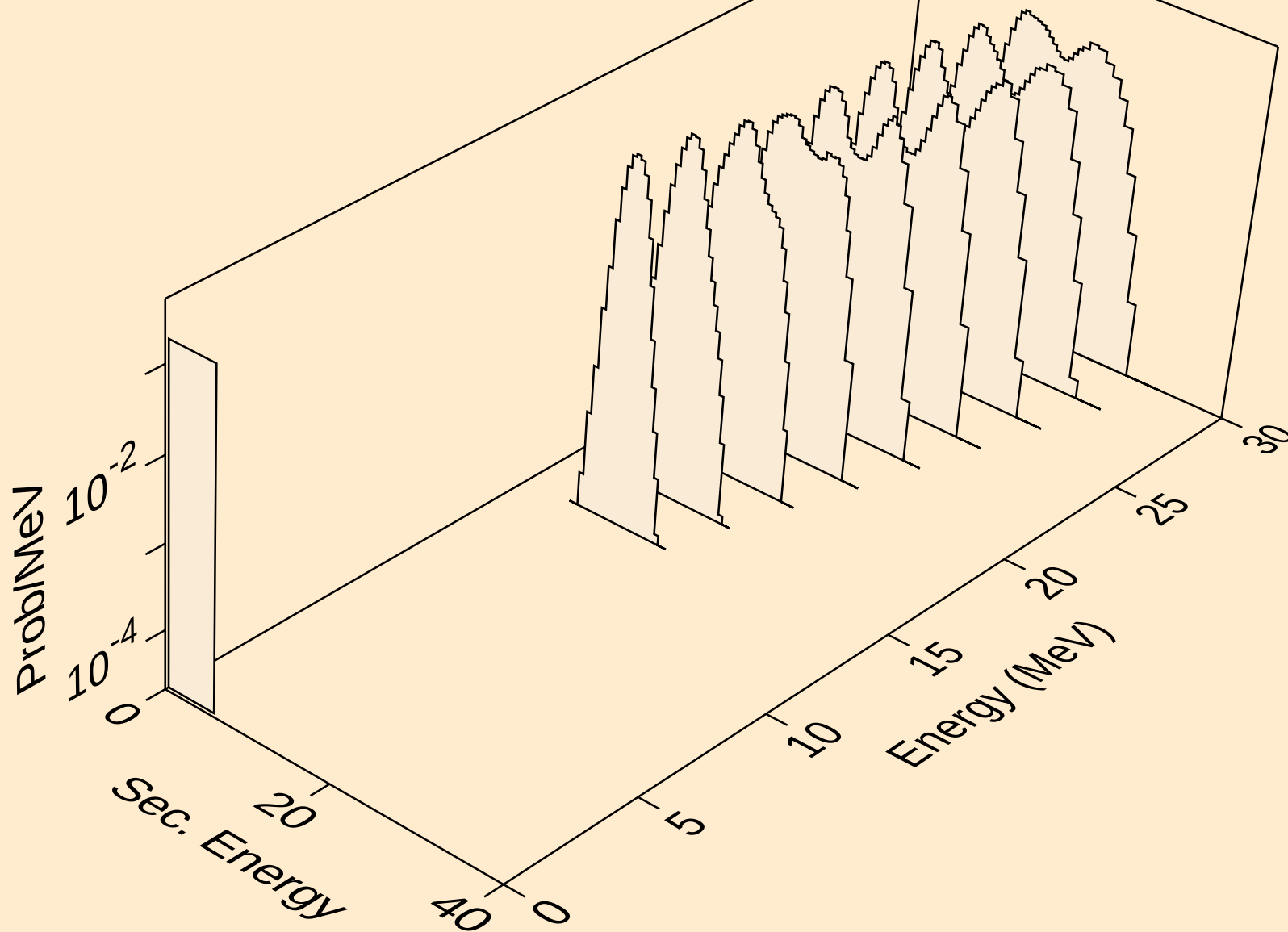
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alphas from (s,2n)a



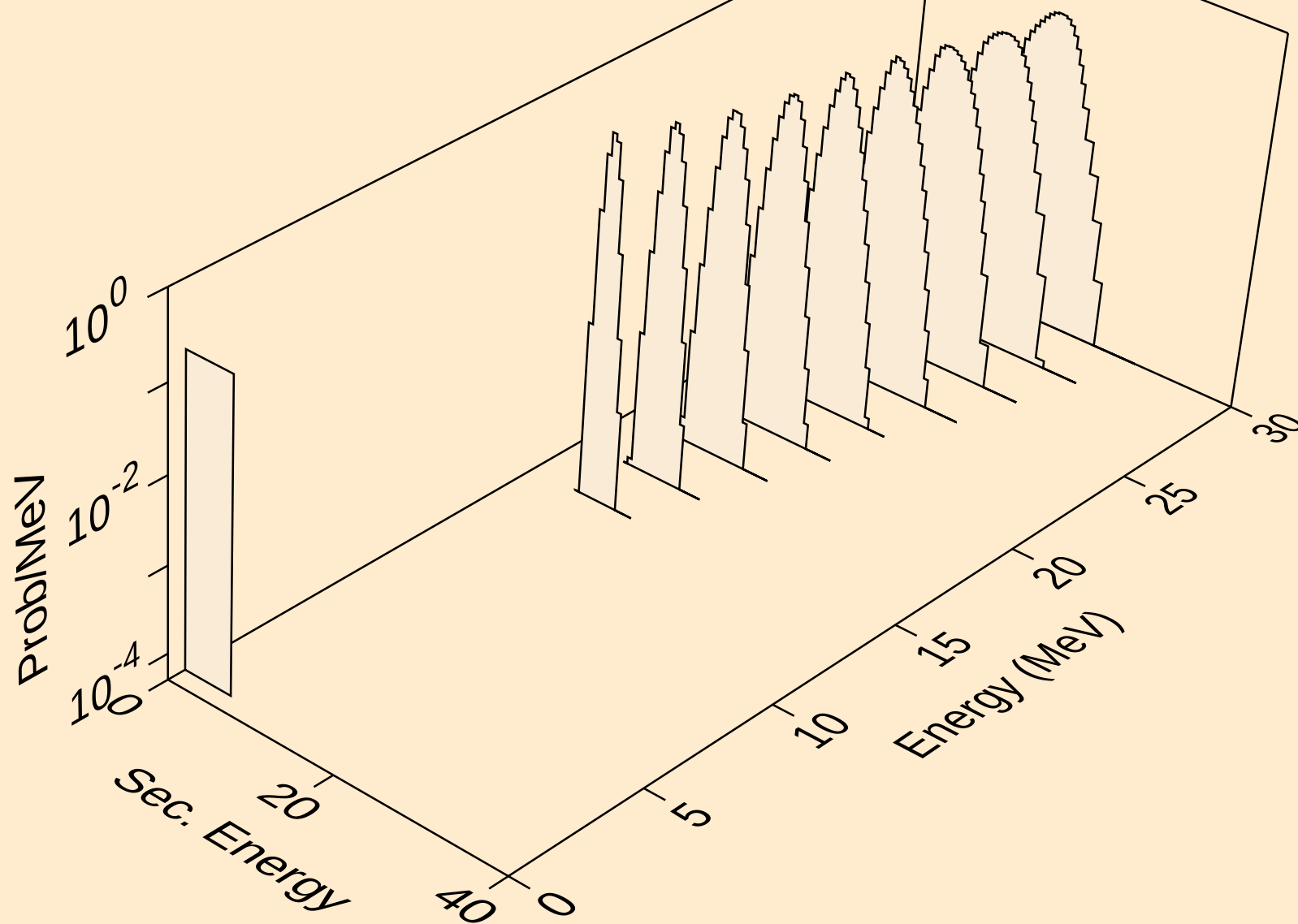
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alphas from (s,3n)a



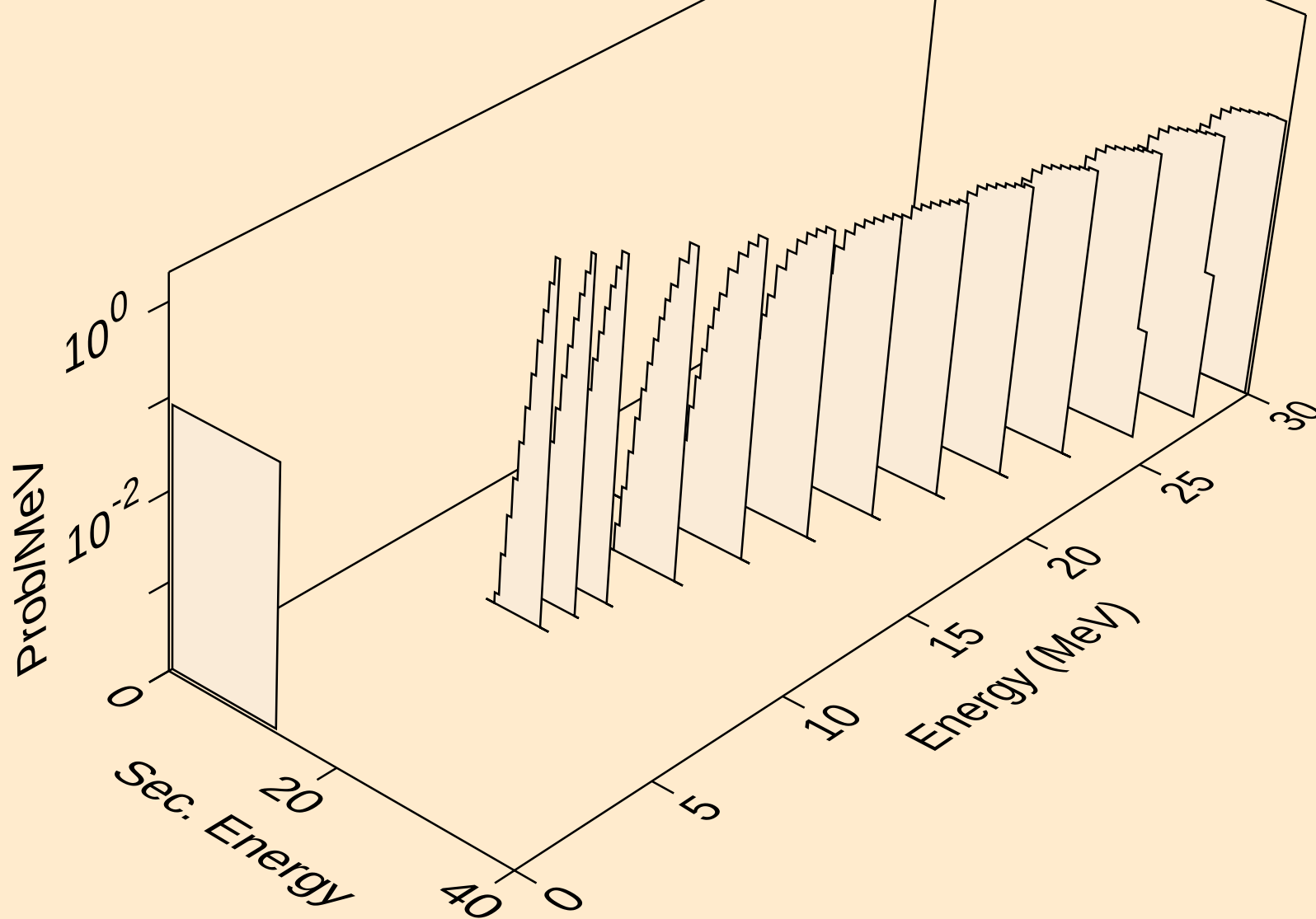
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alphas from (s,n\*)2a



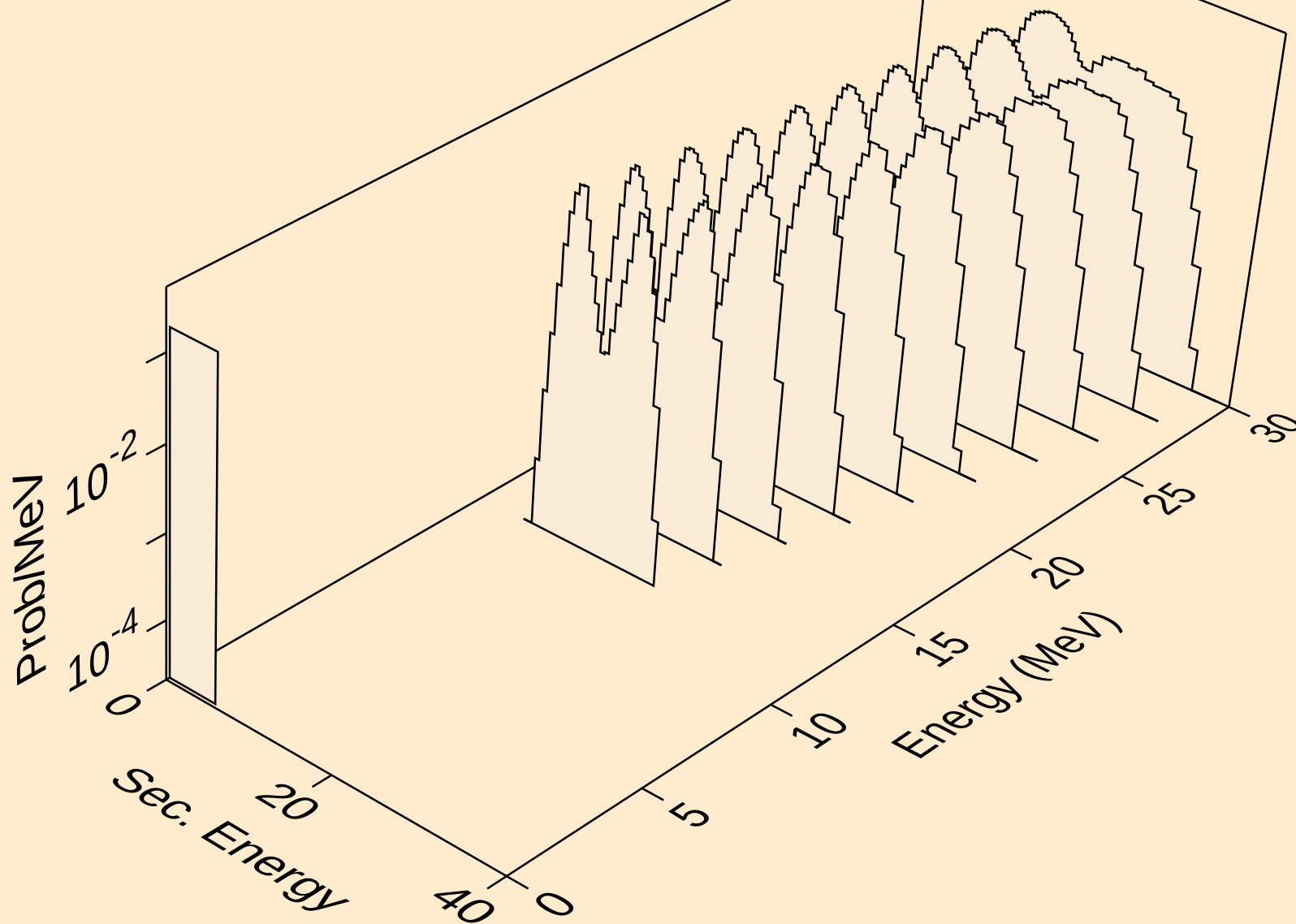
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alphas from (s,npa)



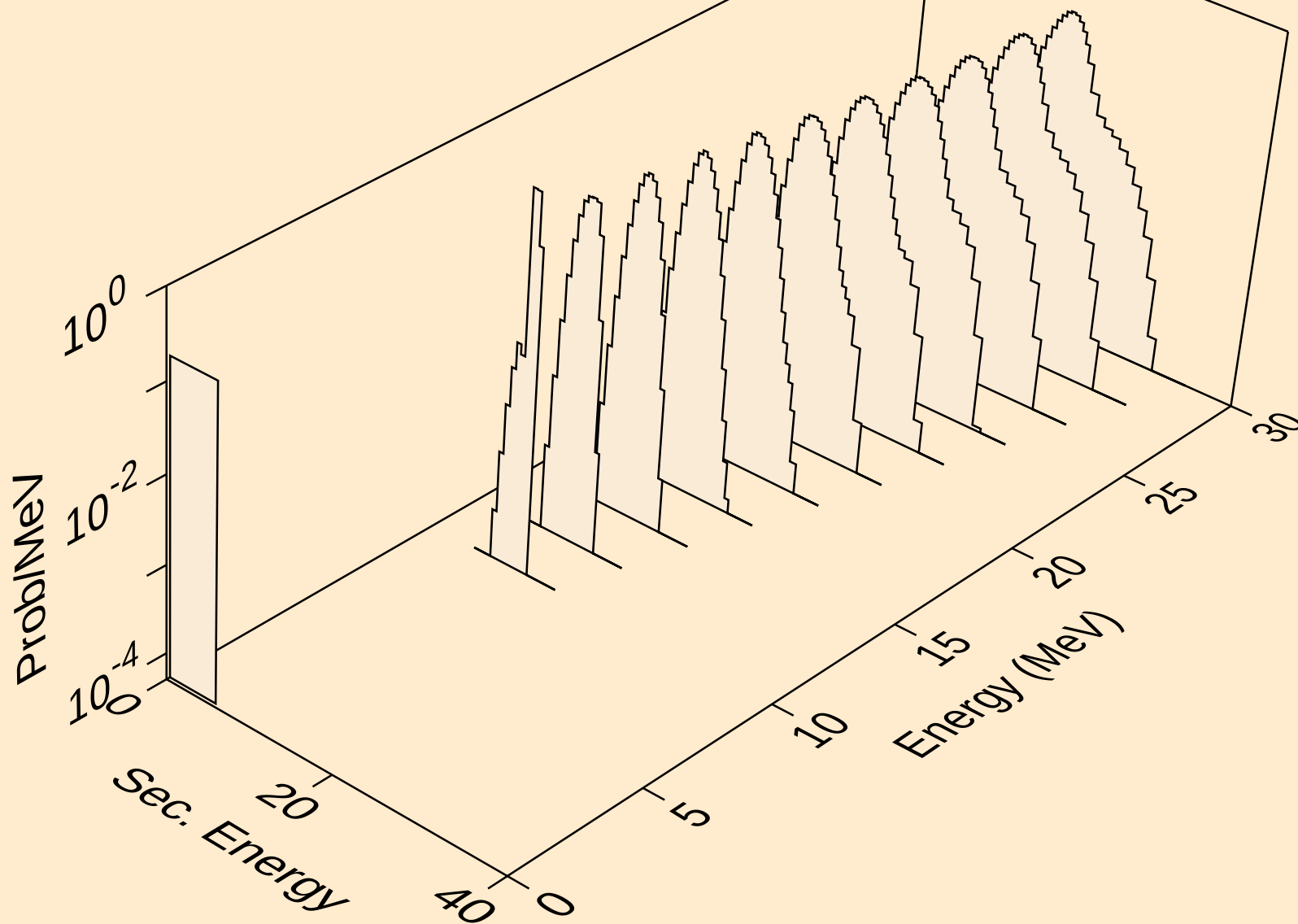
PT190 HELION ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (s,a)



PT190 HELION ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (s,2a)



PT190 HELION ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (s,pa)



PT190 HELION ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (s,da)

