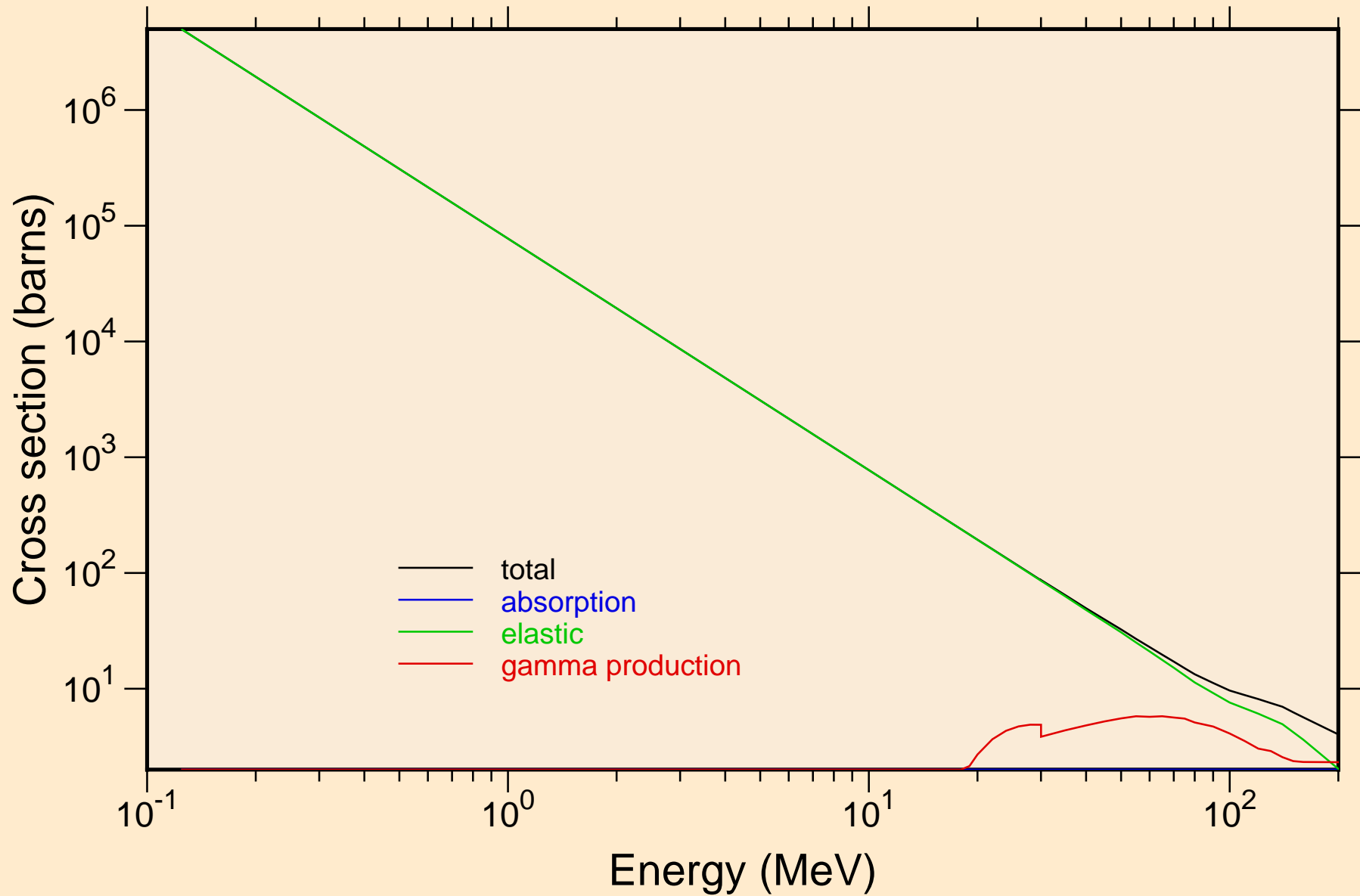
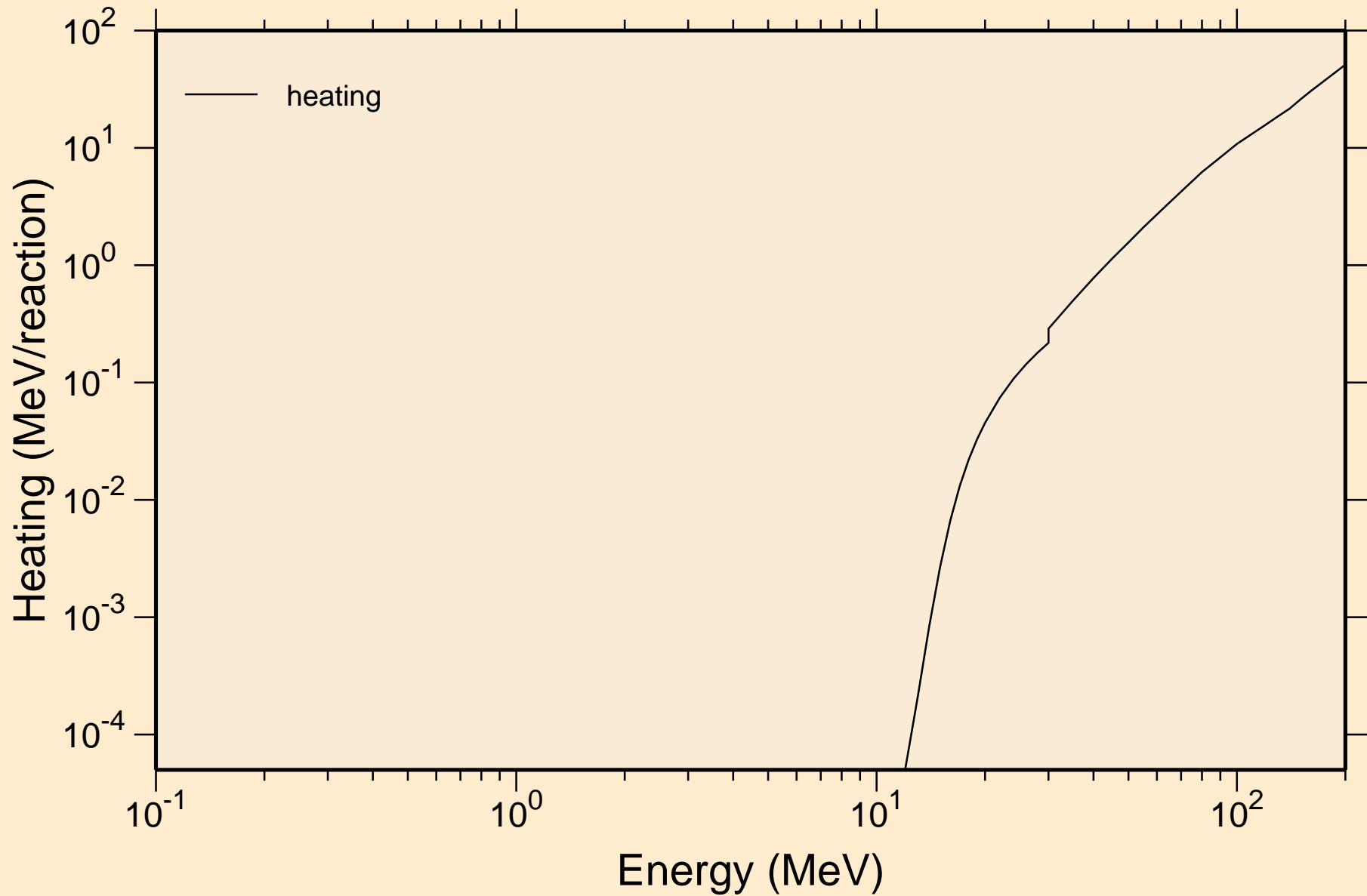


CS139 HELION ACER TENDL-2021 LIBRARY; T=0.K
Principal cross sections



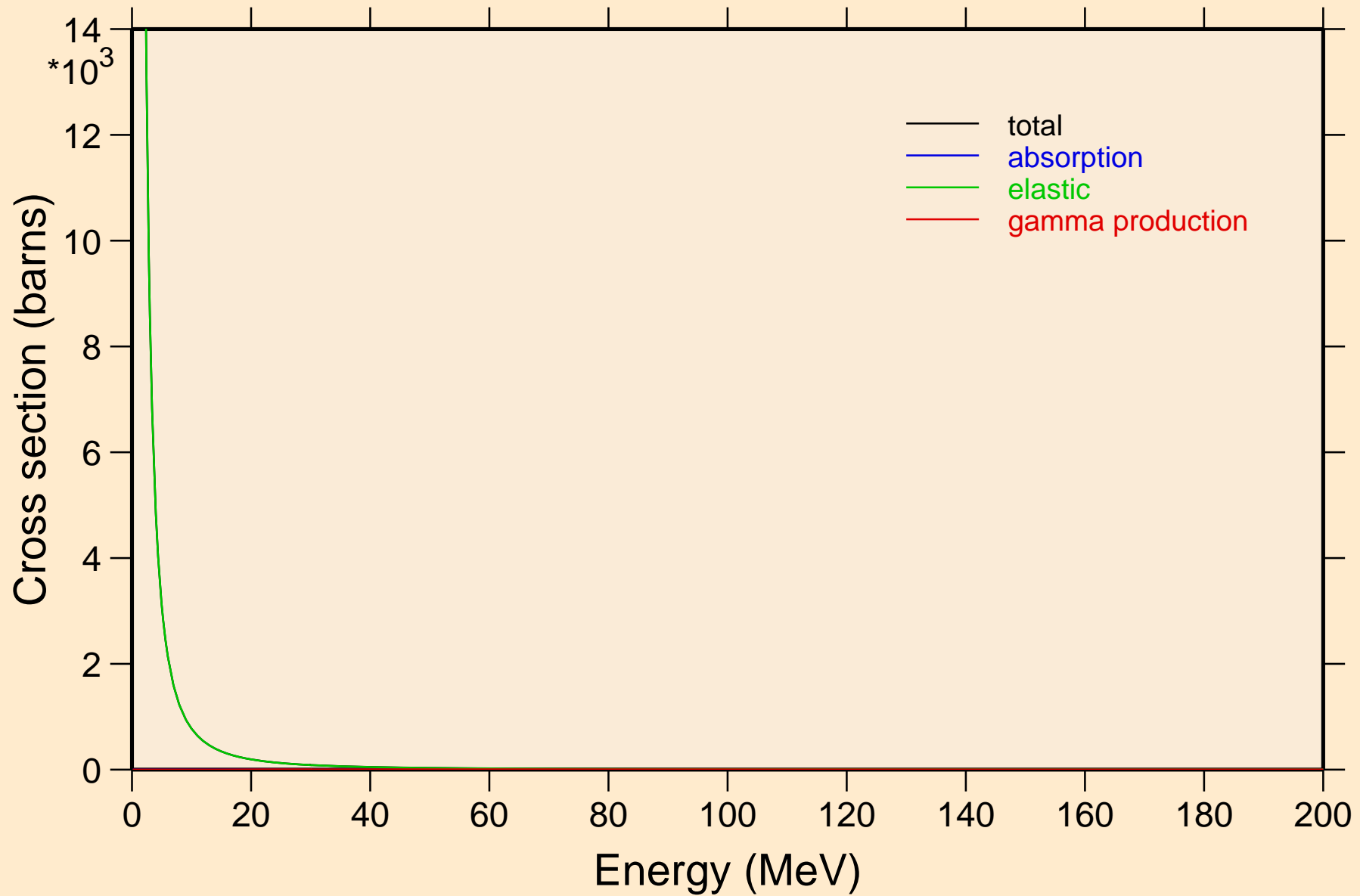
CS139 HELION ACER TENDL-2021 LIBRARY; T=0.K

Heating



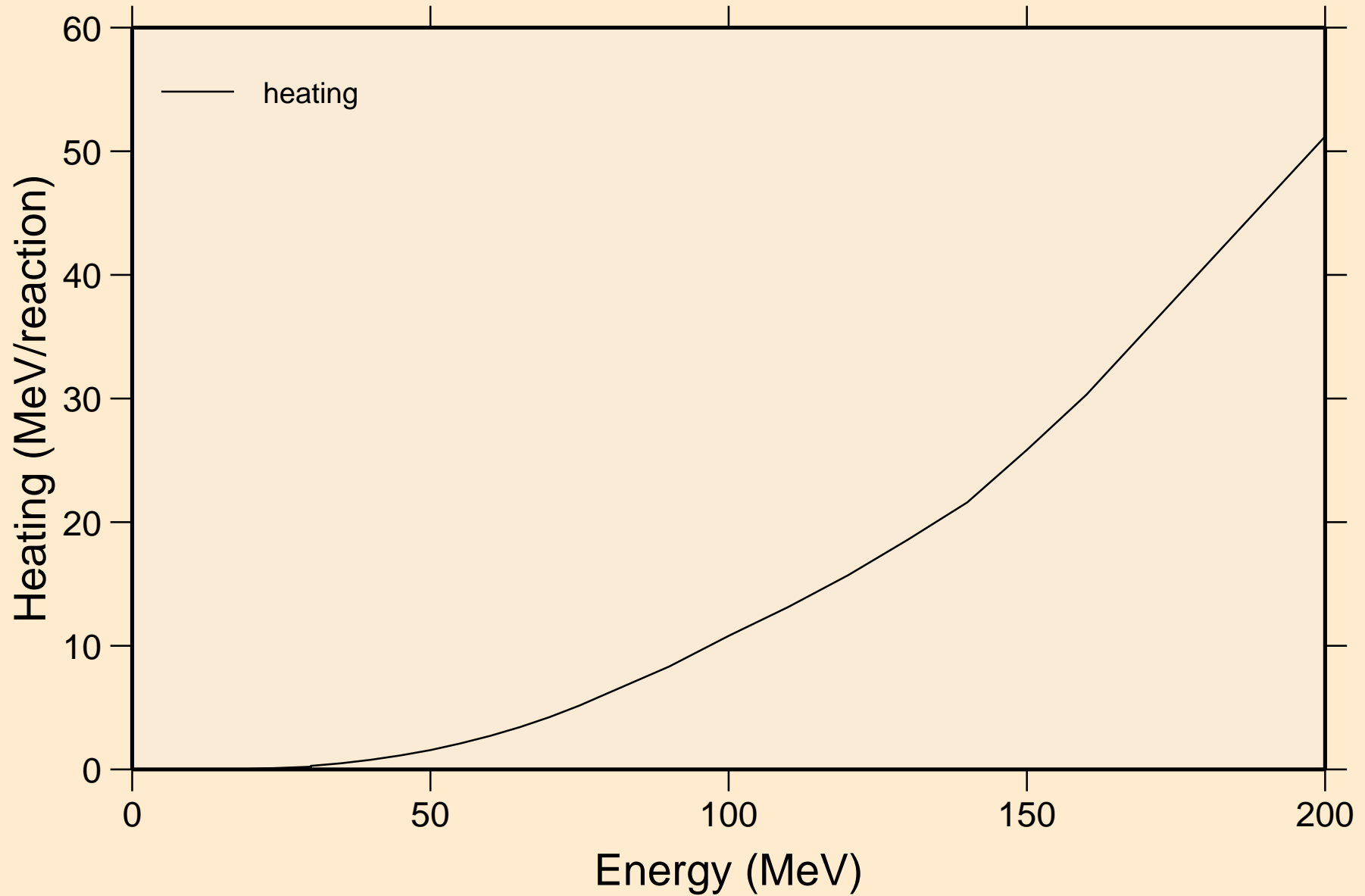
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Principal cross sections



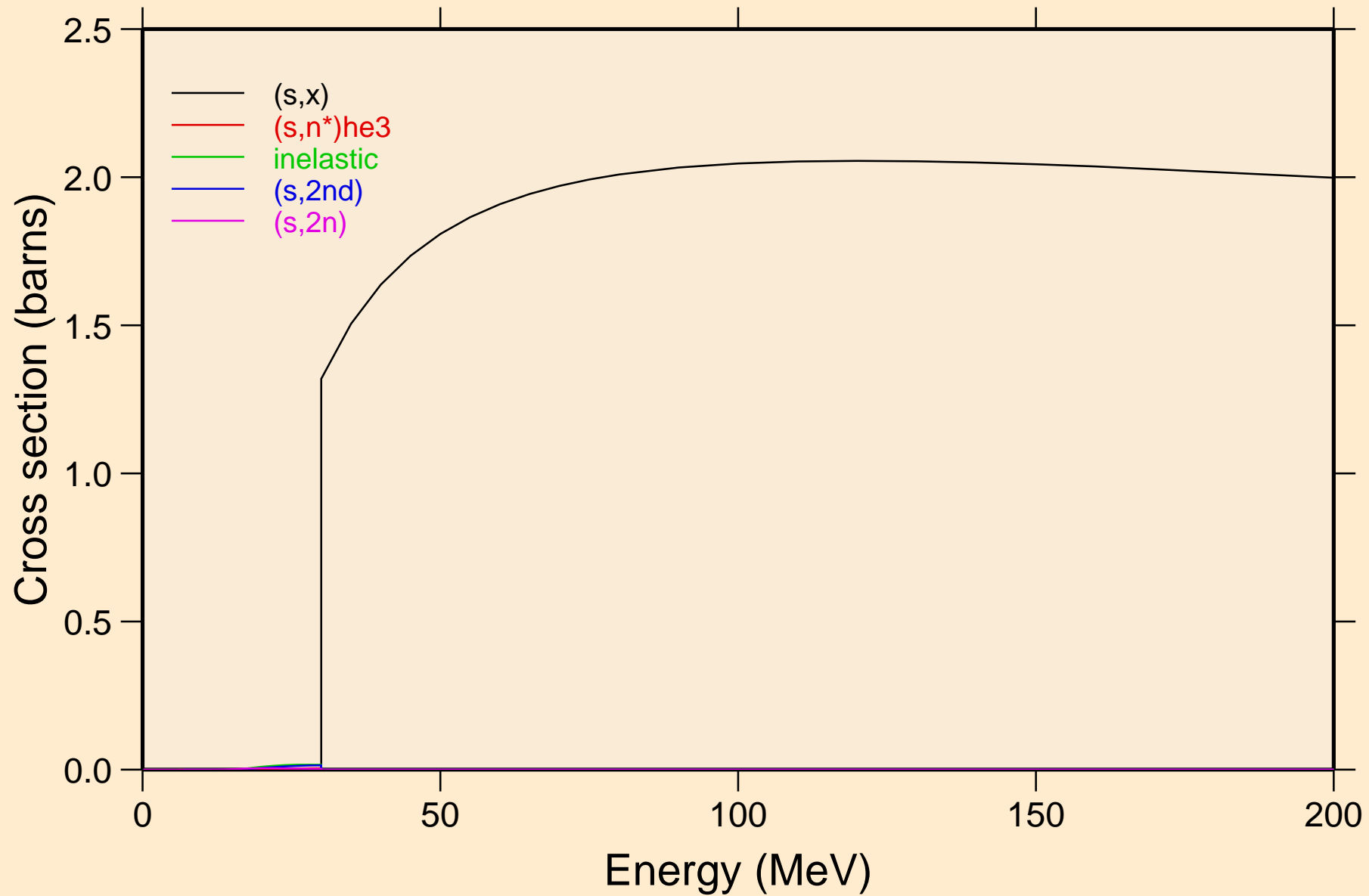
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Heating

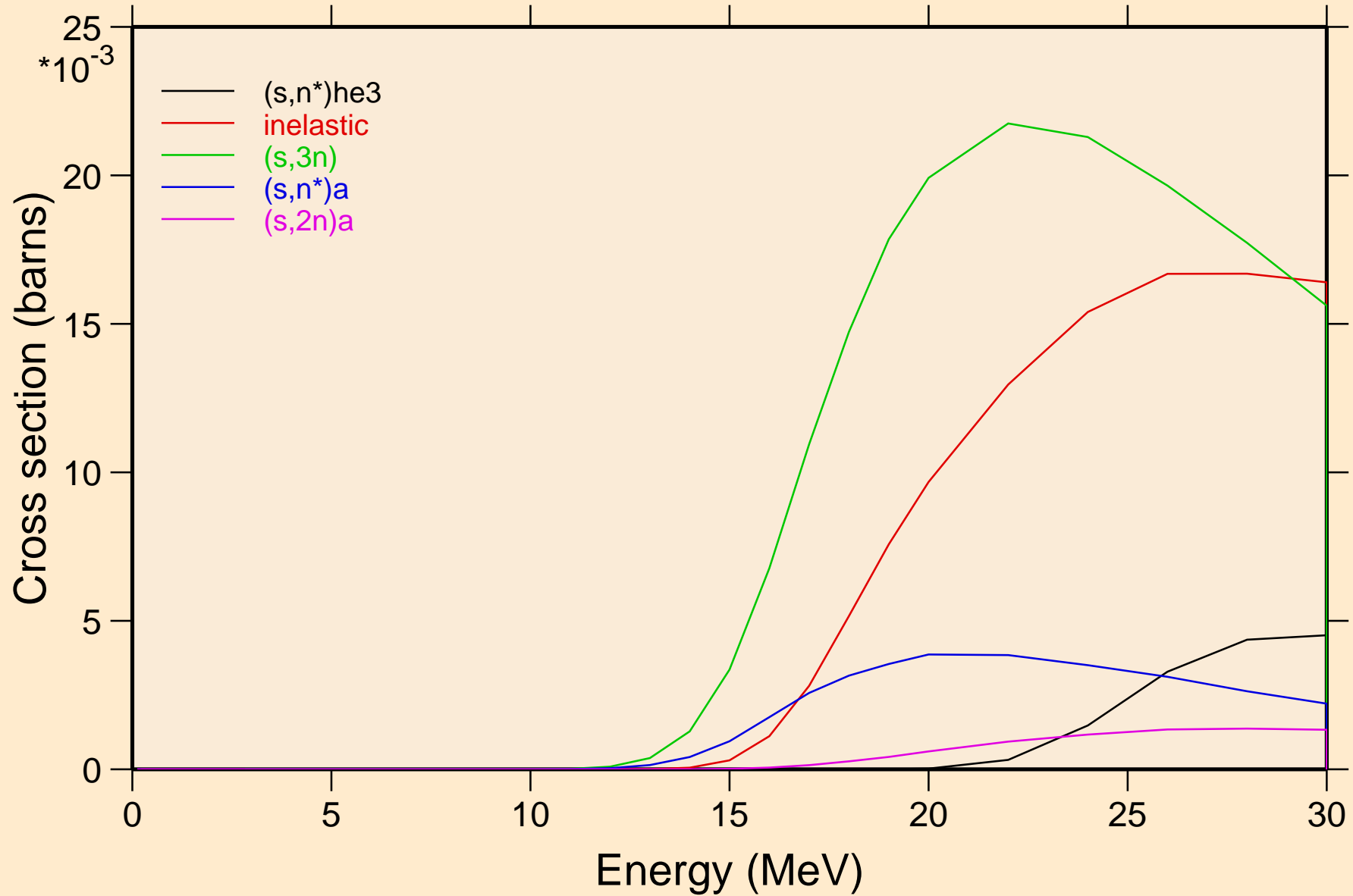


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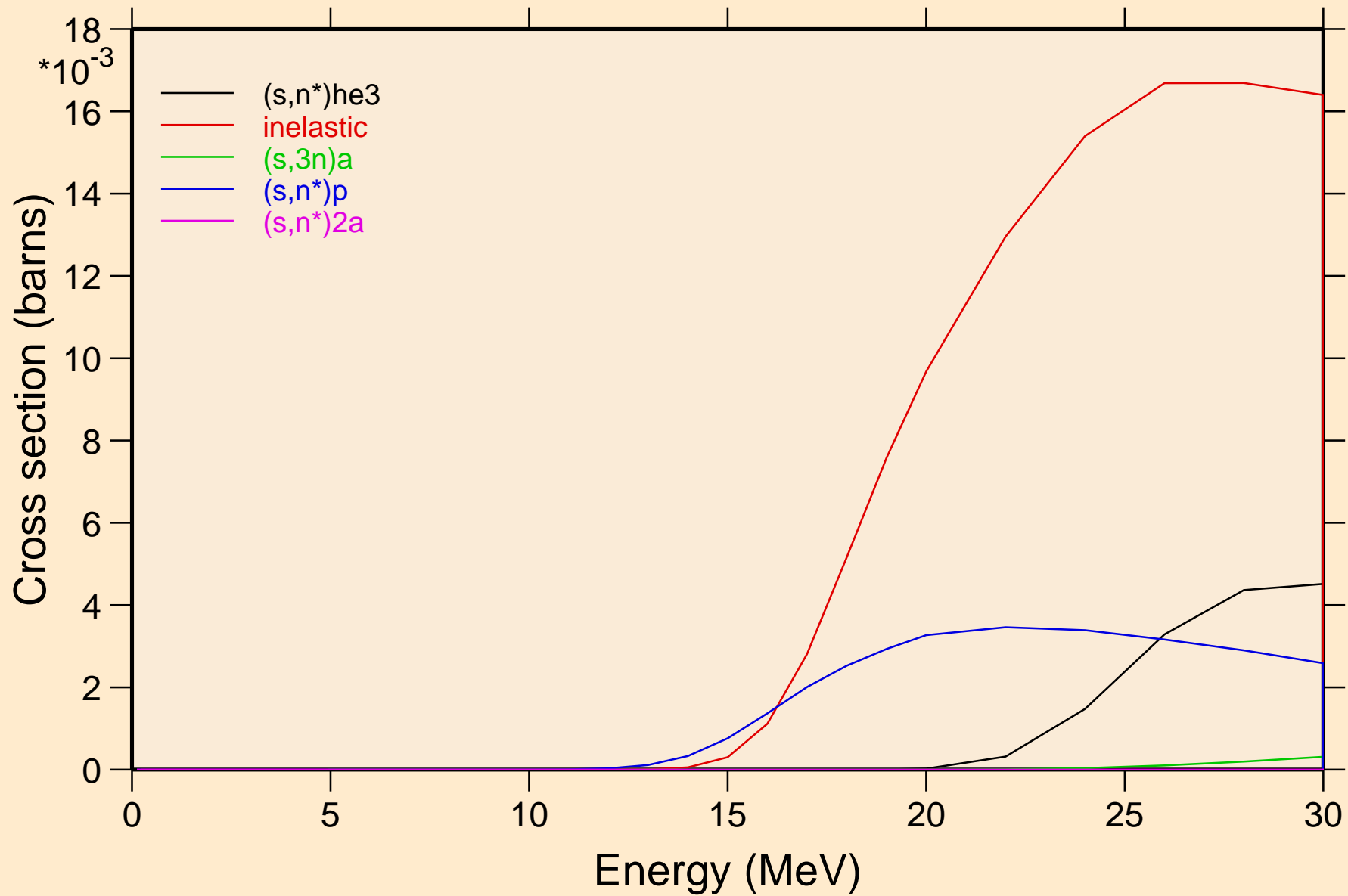
Threshold reactions



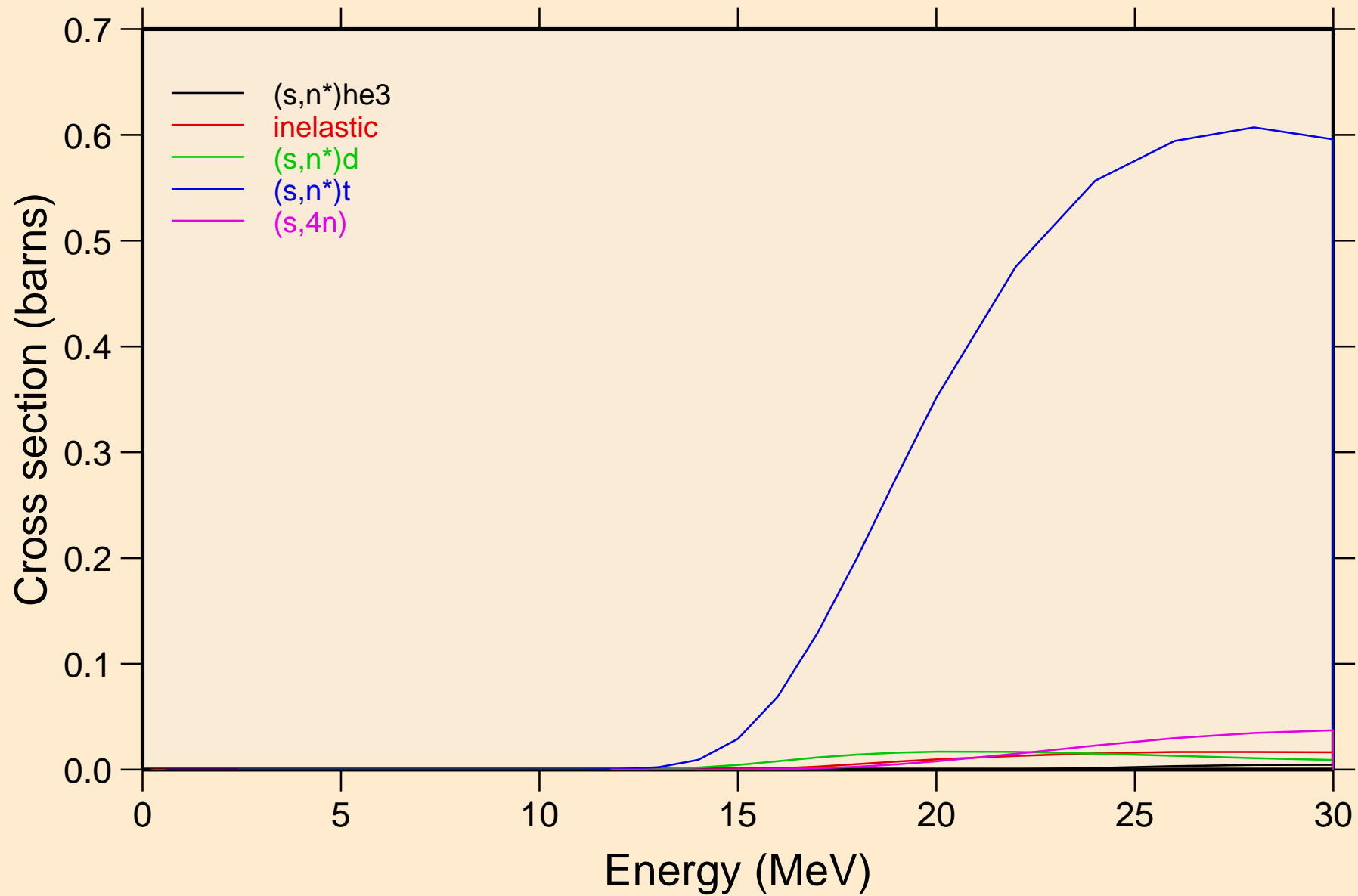
CS139 HELION ACER TENDL-2021 LIBRARY; T=0.K
Threshold reactions



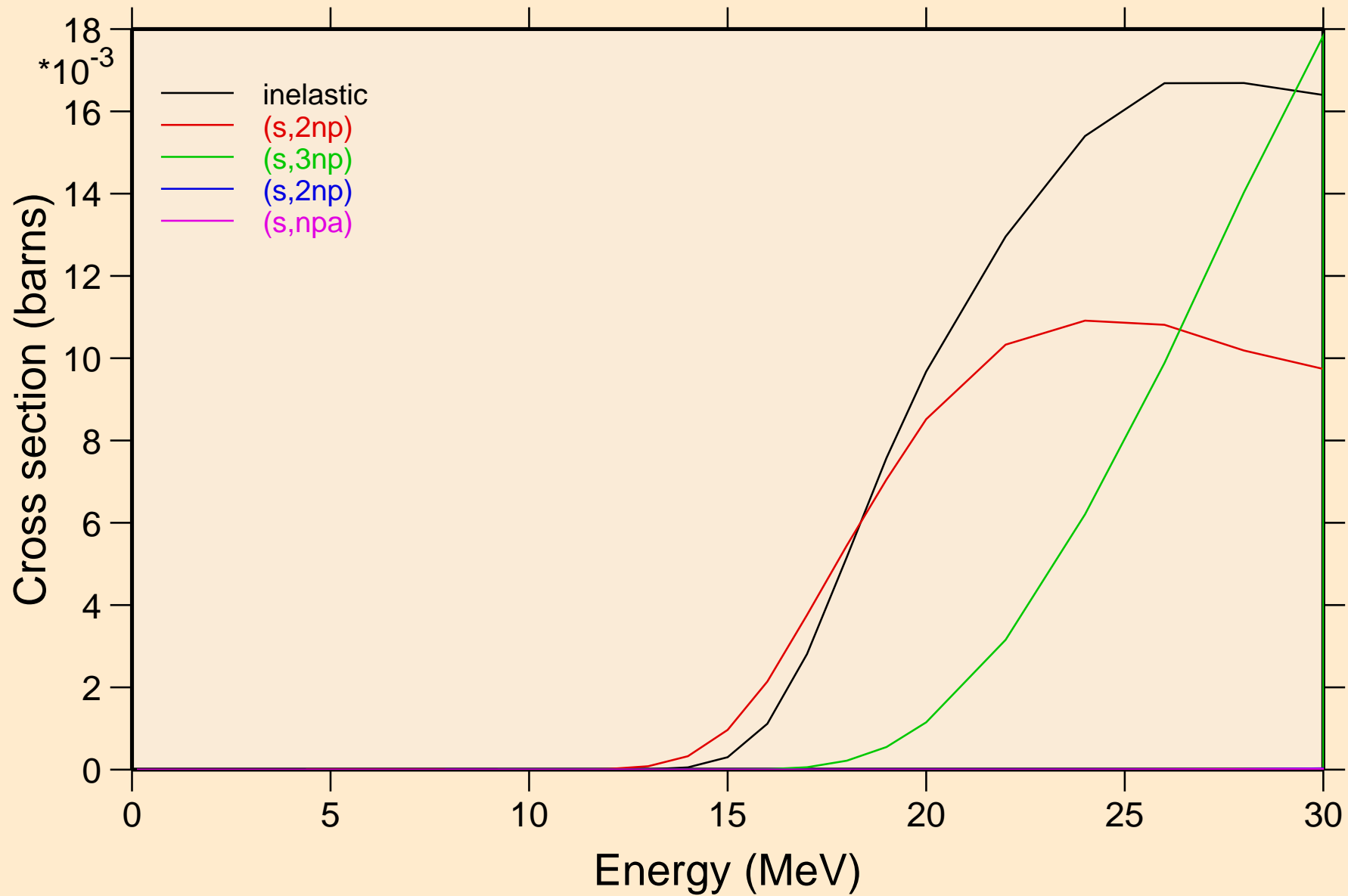
CS139 HELION ACER TENDL-2021 LIBRARY; T=0.K
Threshold reactions



CS139 HELION ACER TENDL-2021 LIBRARY; T=0.K
Threshold reactions

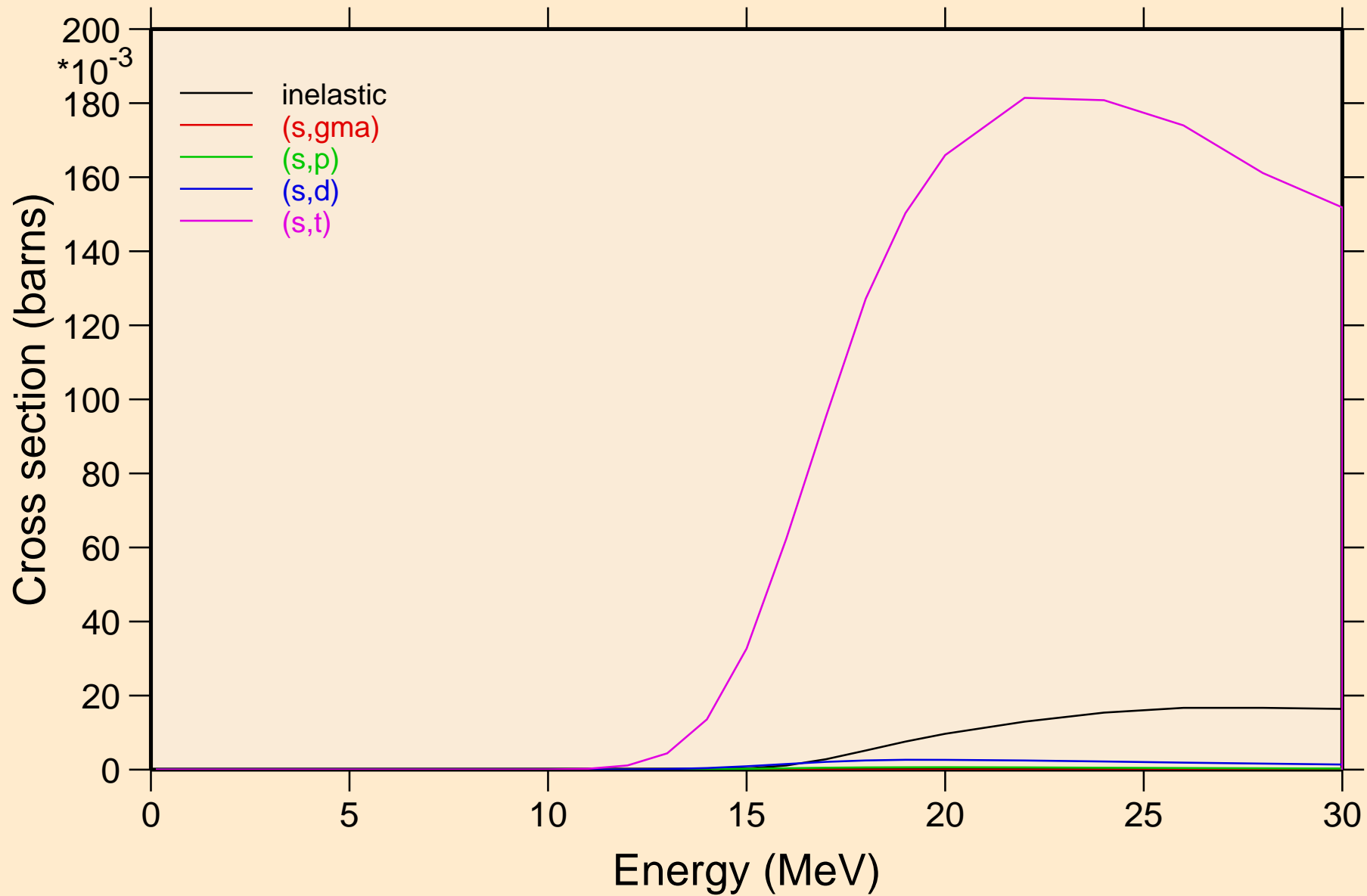


CS139 HELION ACER TENDL-2021 LIBRARY; T=0.K
Threshold reactions

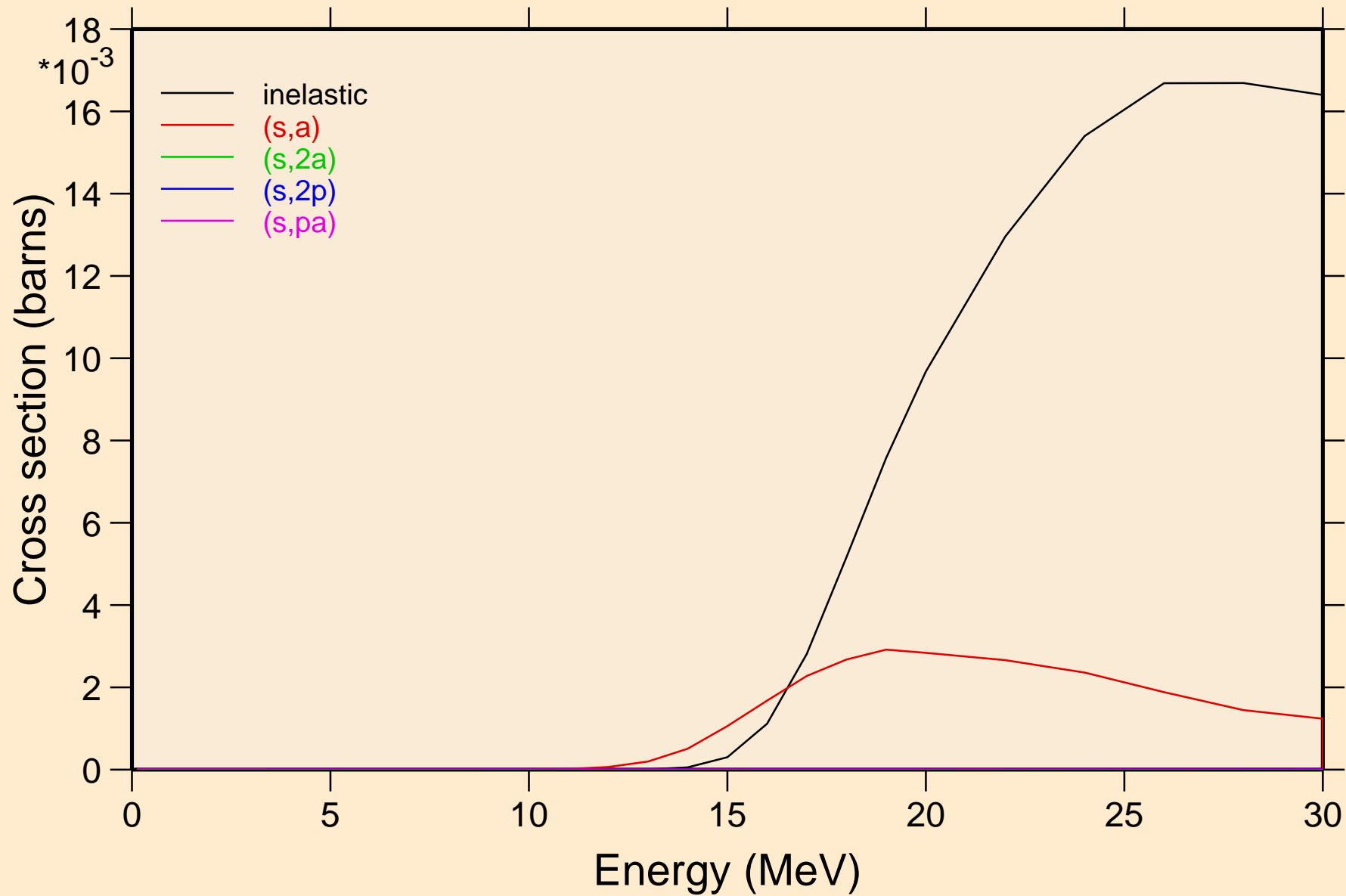


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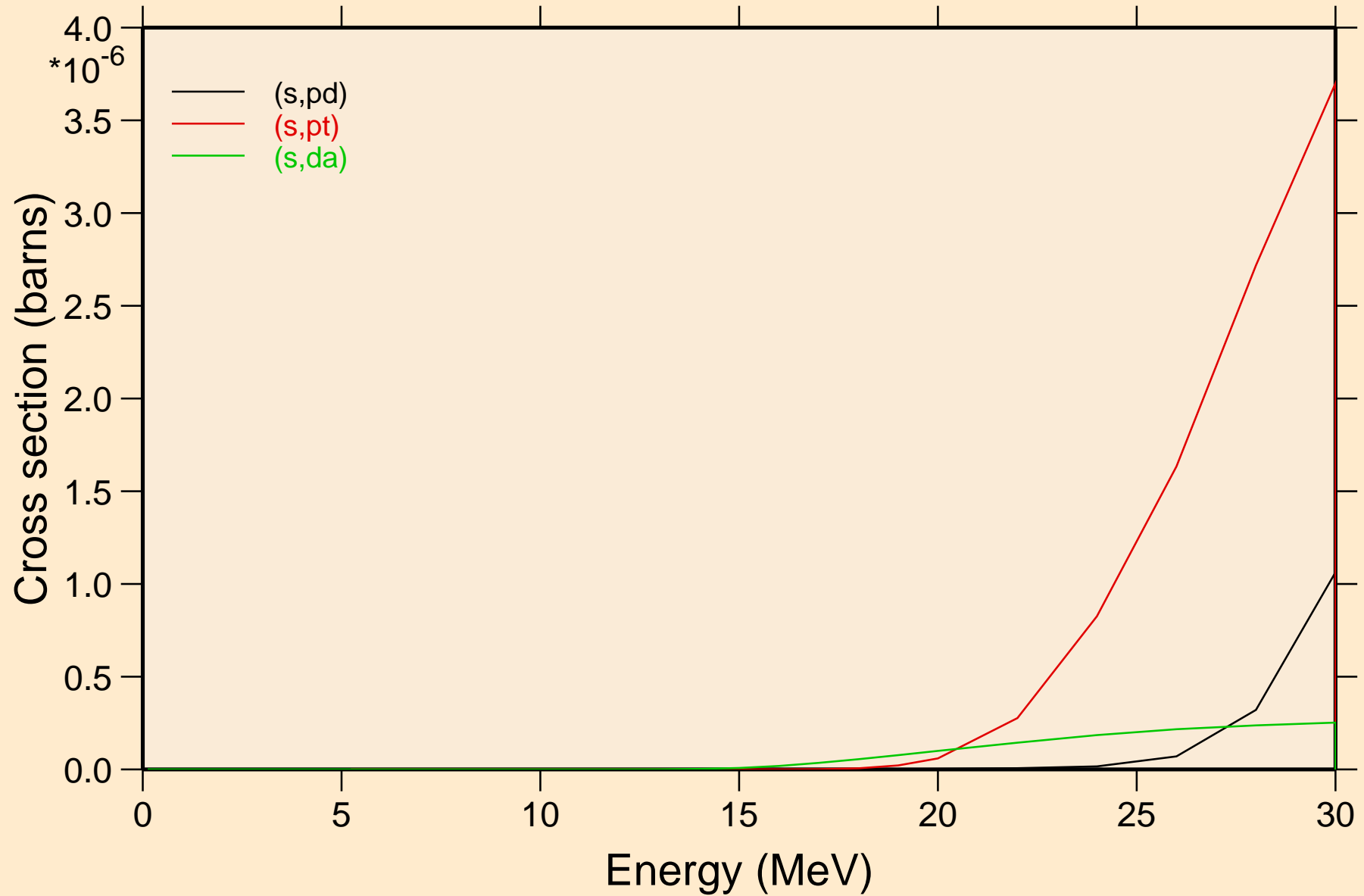
Threshold reactions



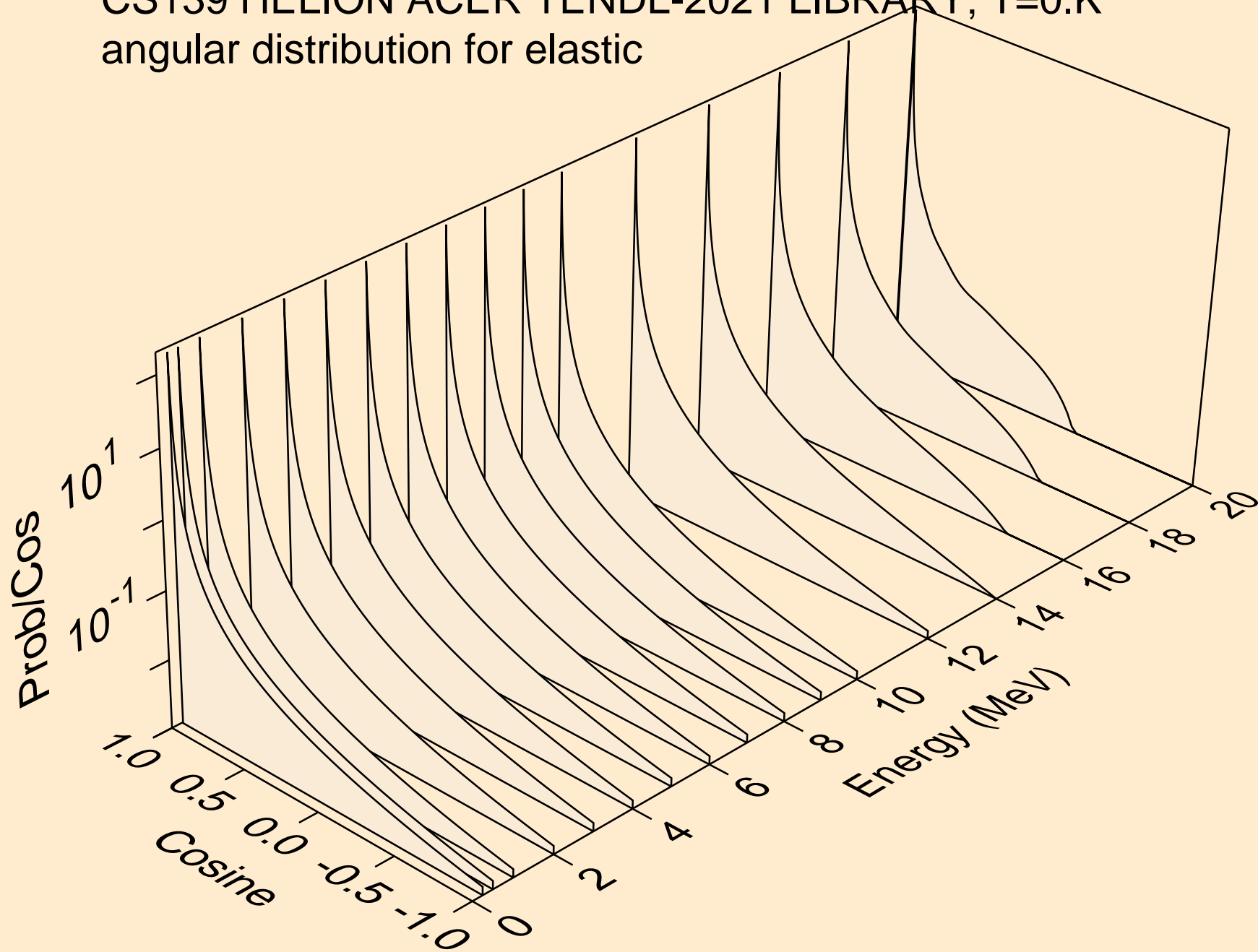
CS139 HELION ACER TENDL-2021 LIBRARY; T=0.K
Threshold reactions



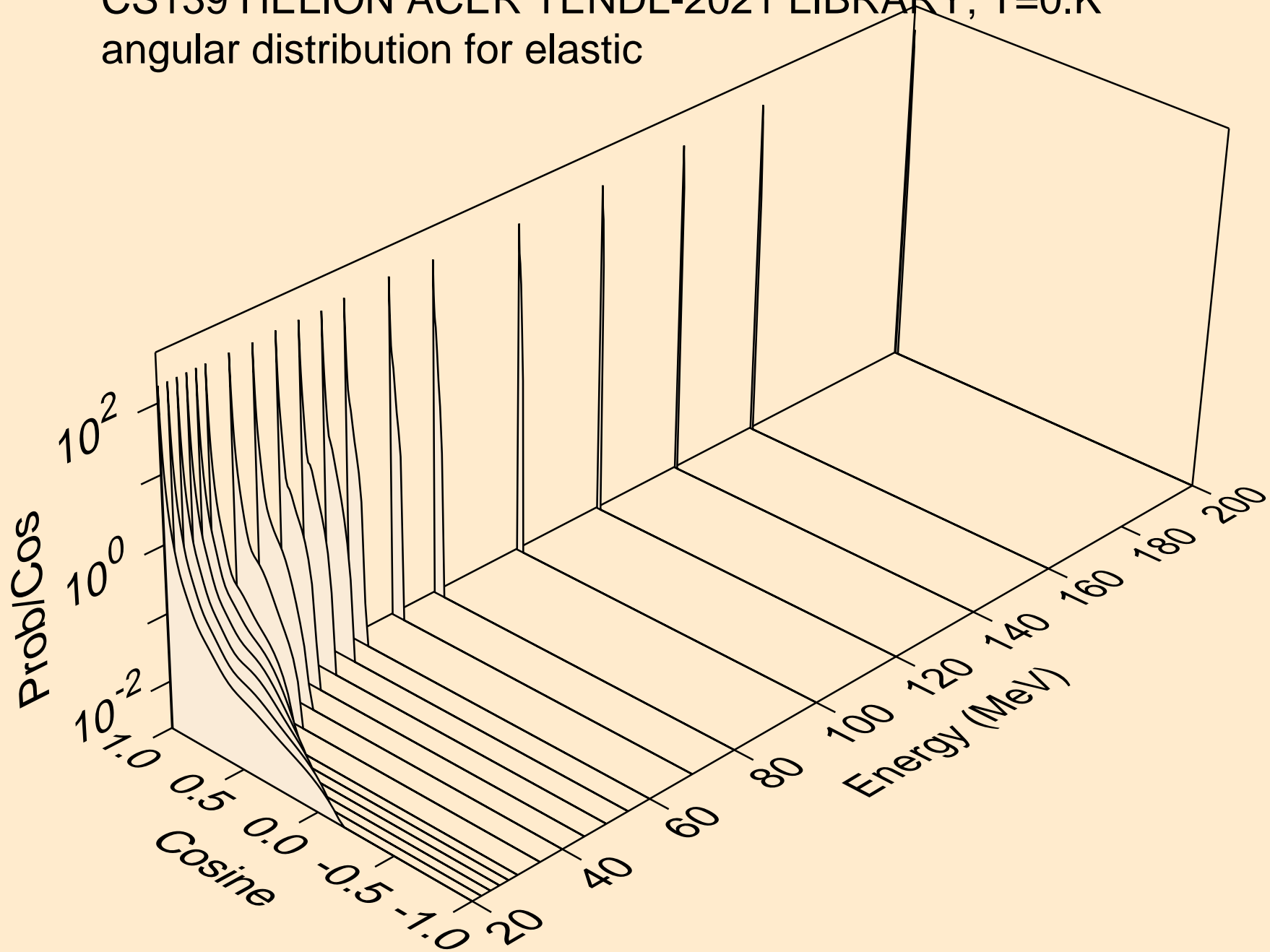
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Threshold reactions



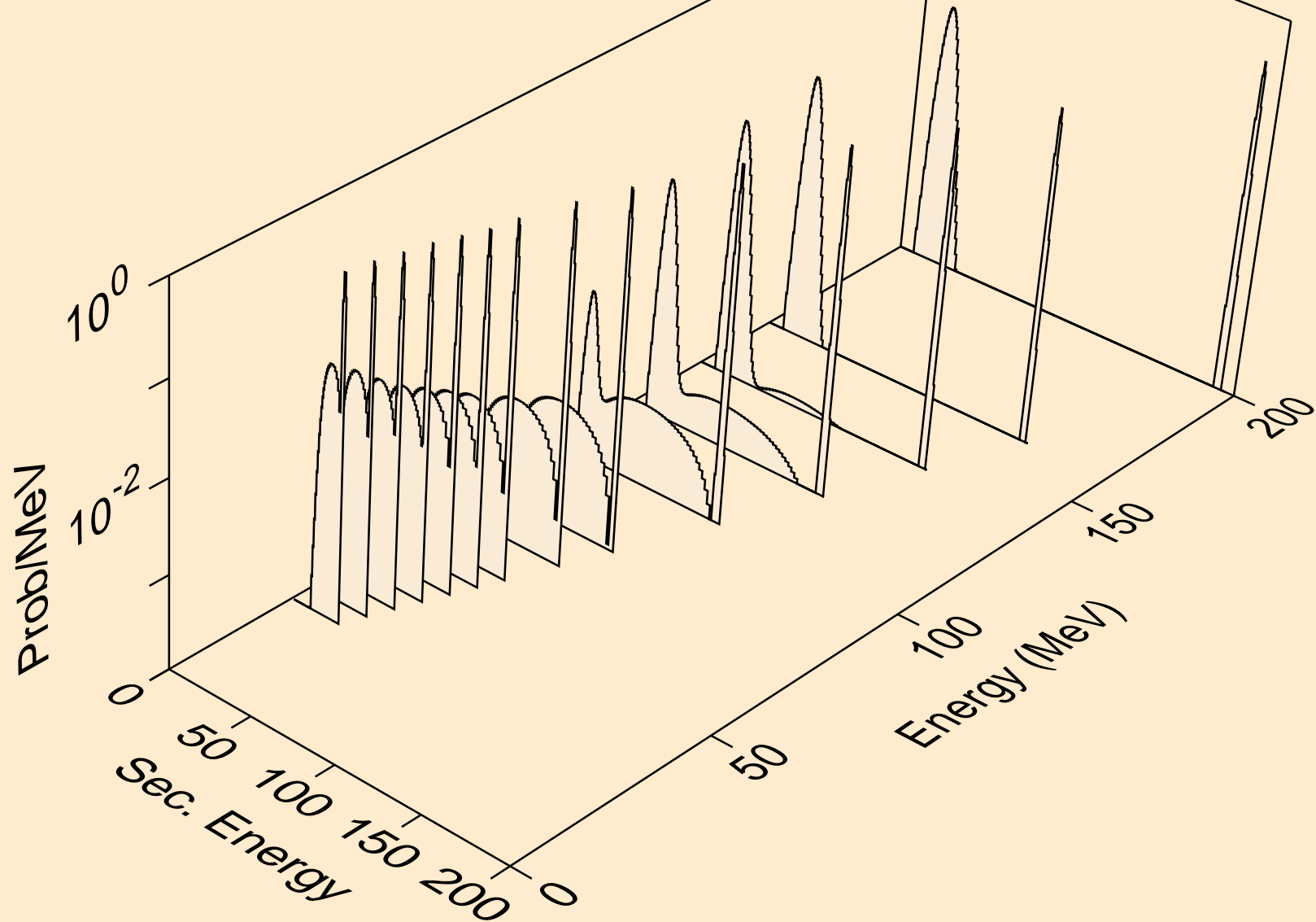
CS139 HELION ACER TENDL-2021 LIBRARY; T=0.K
angular distribution for elastic



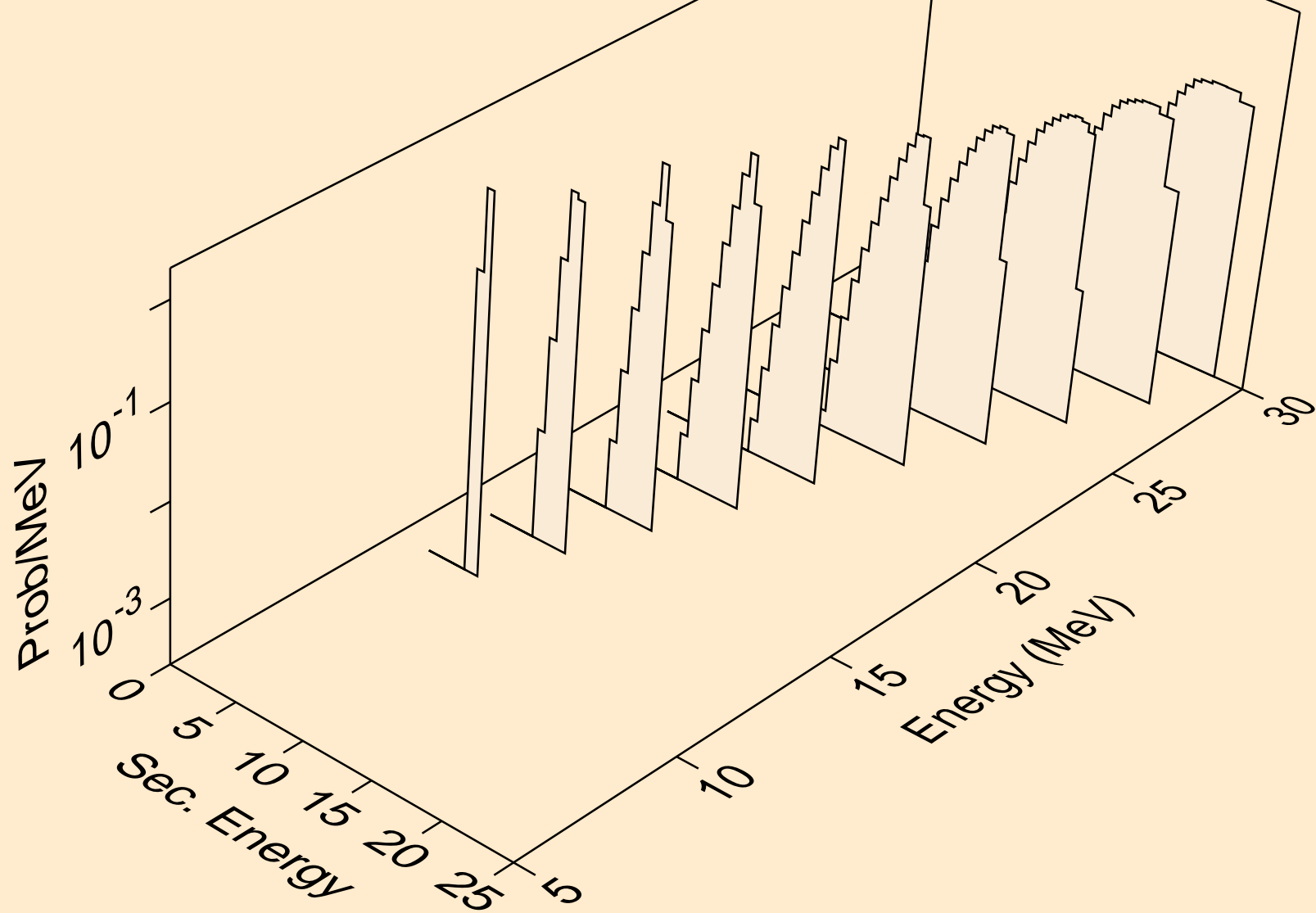
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angular distribution for elastic



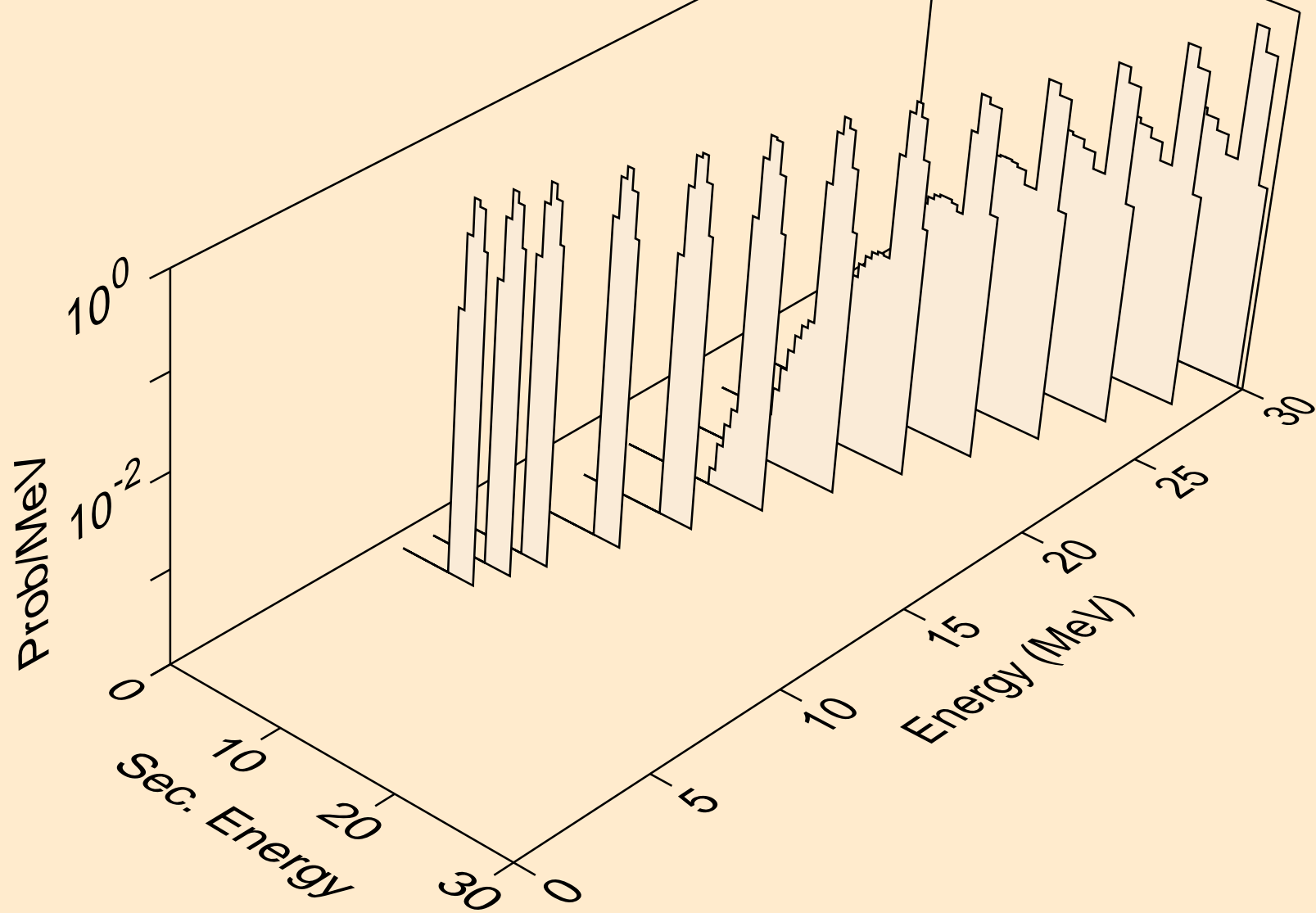
CS139 HELION ACER TENDL-2021 LIBRARY; T=0.K
He-3 emission for (s,x)



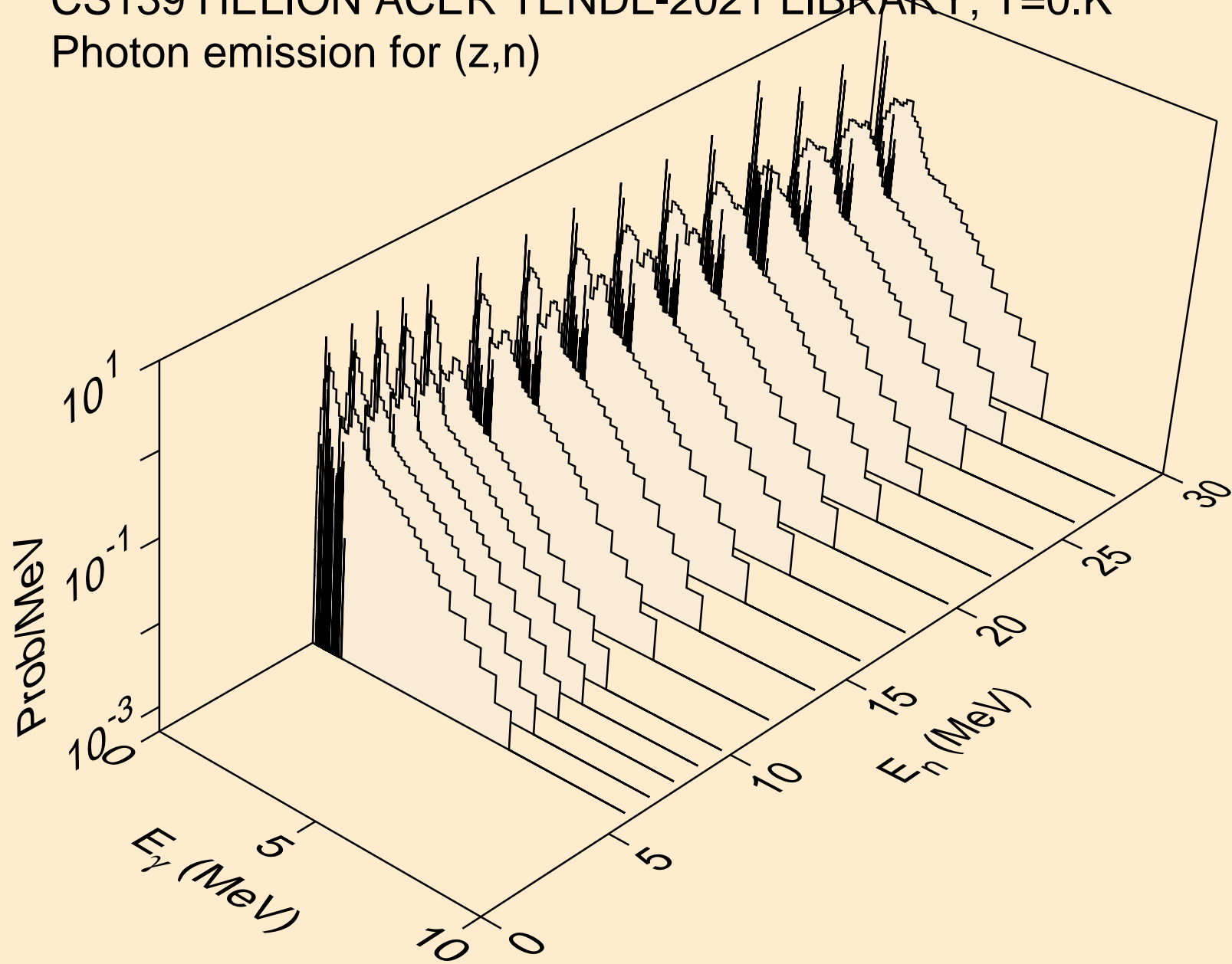
CS139 HELION ACER TENDL-2021 LIBRARY; T=0.K
He-3 emission for (s,n*)he3



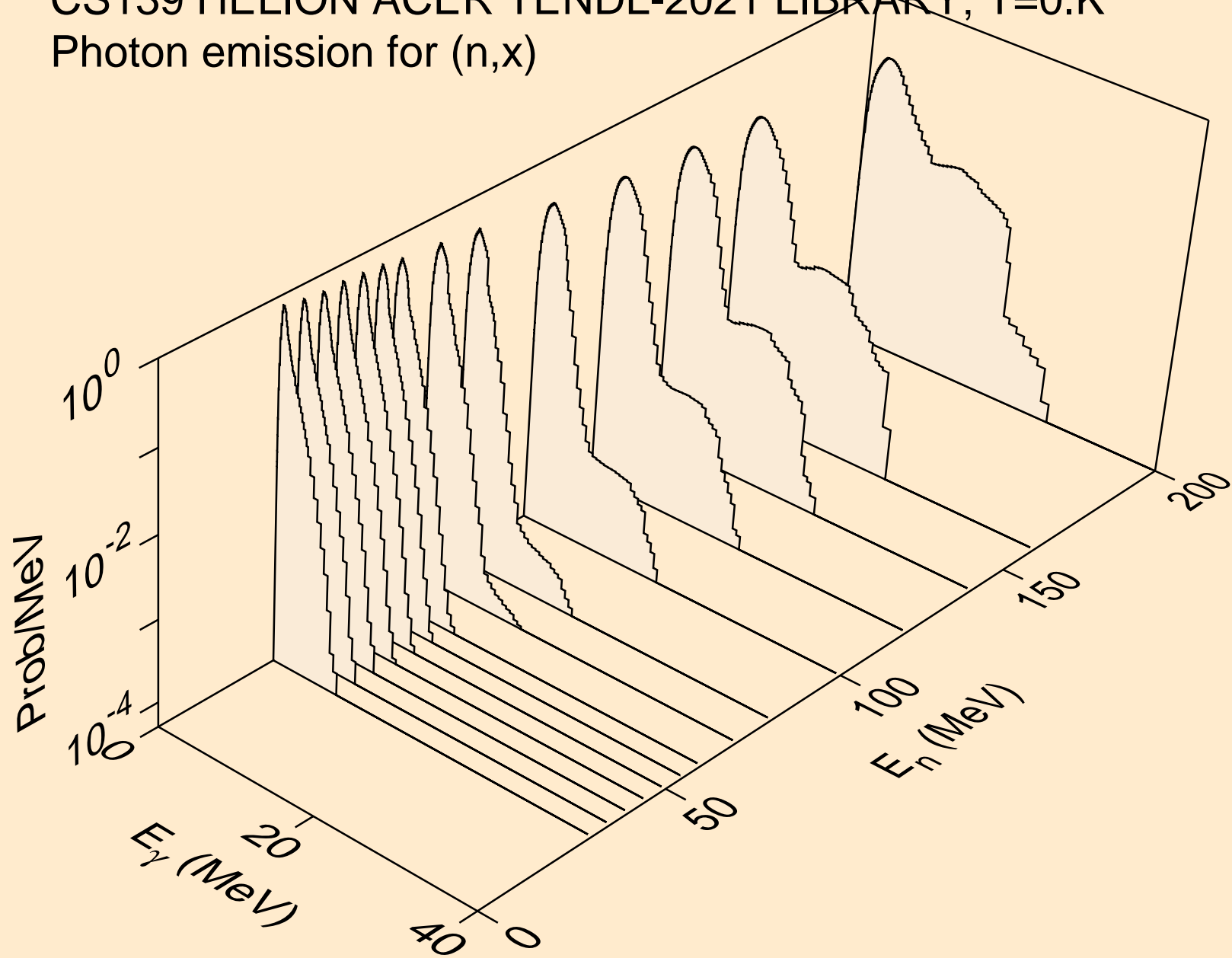
CS139 HELION ACER TENDL-2021 LIBRARY; T=0.K
He-3 emission for inelastic



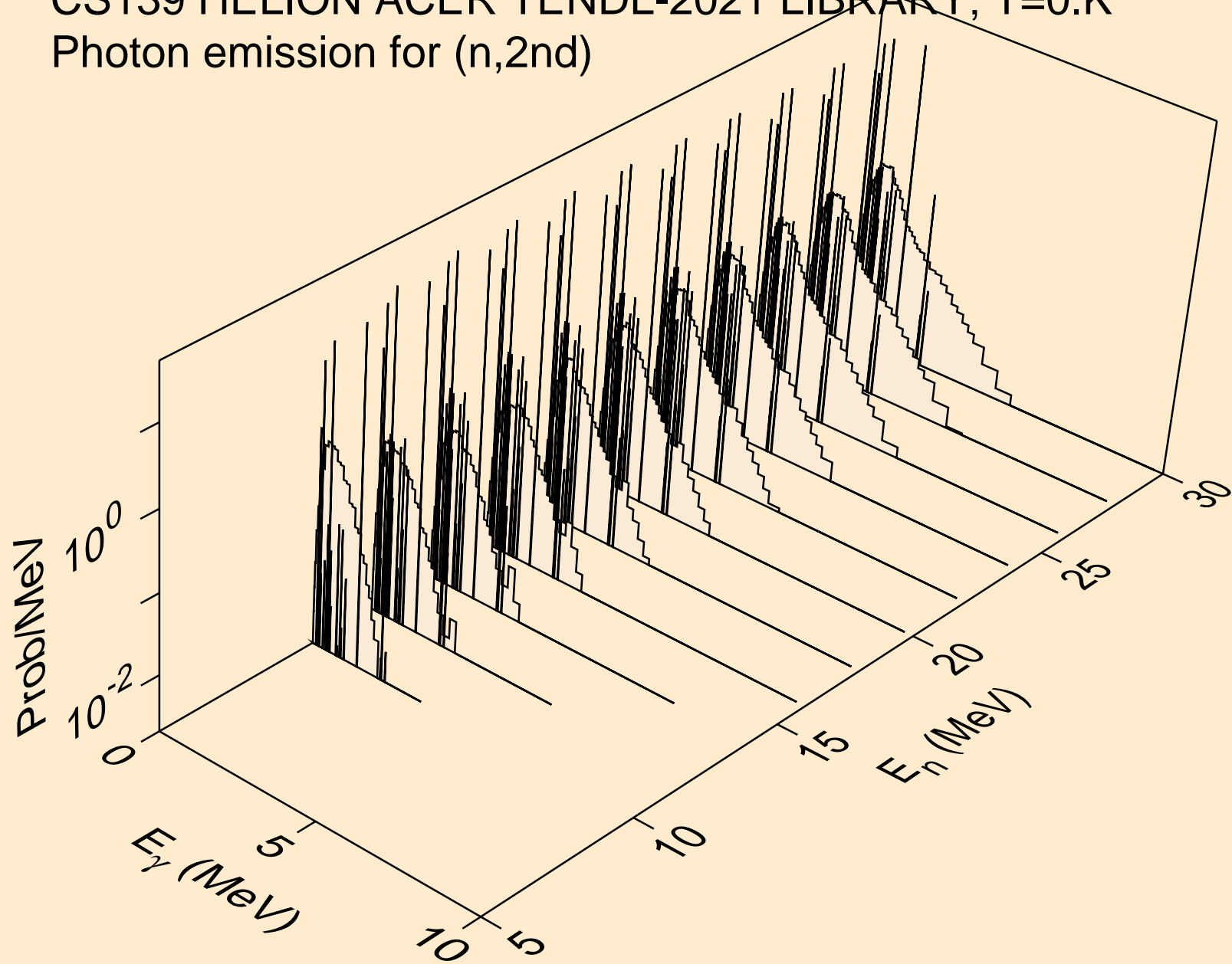
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Photon emission for (z,n)



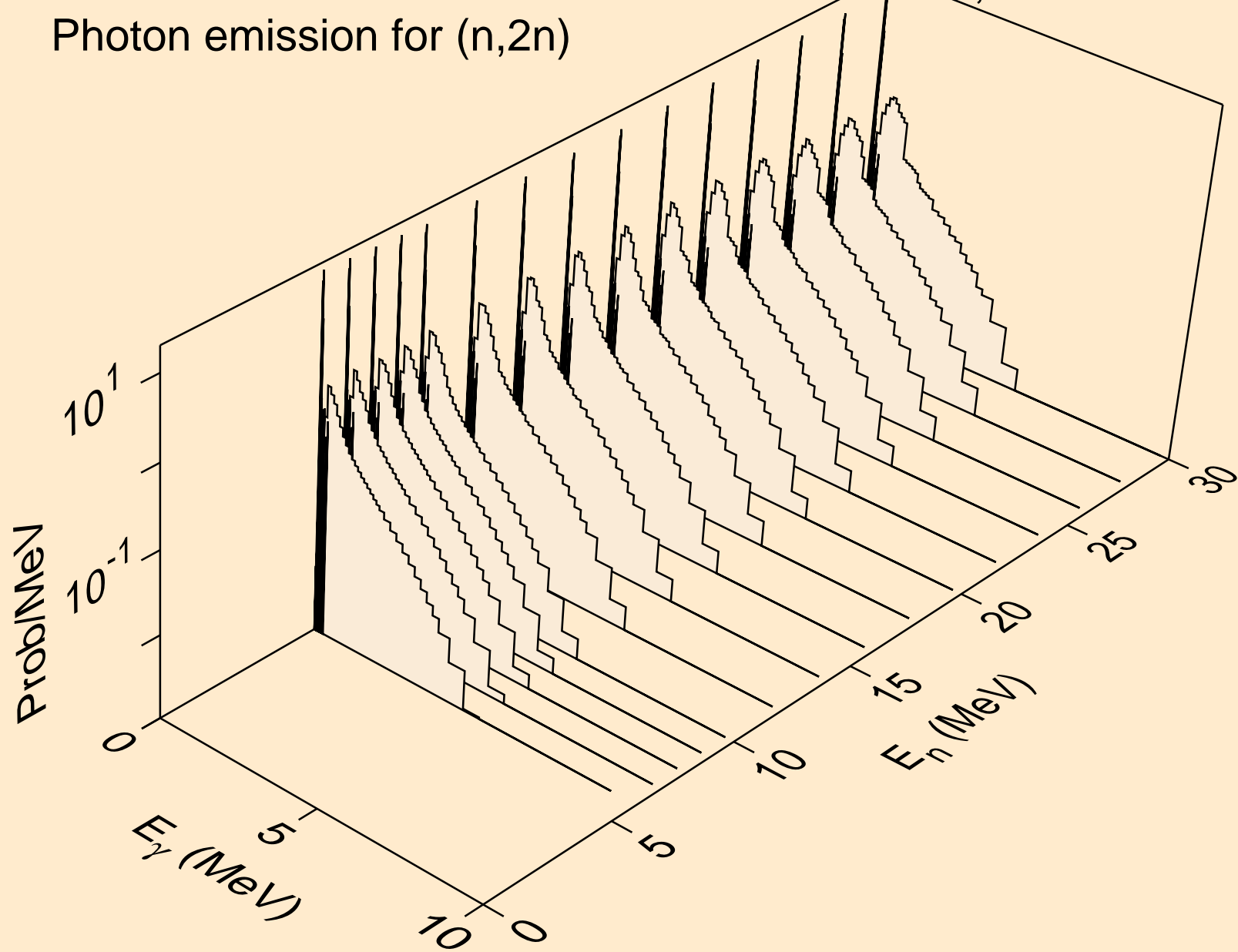
CS139 HELION ACER TENDL-2021 LIBRARY; T=0.K
Photon emission for (n,x)



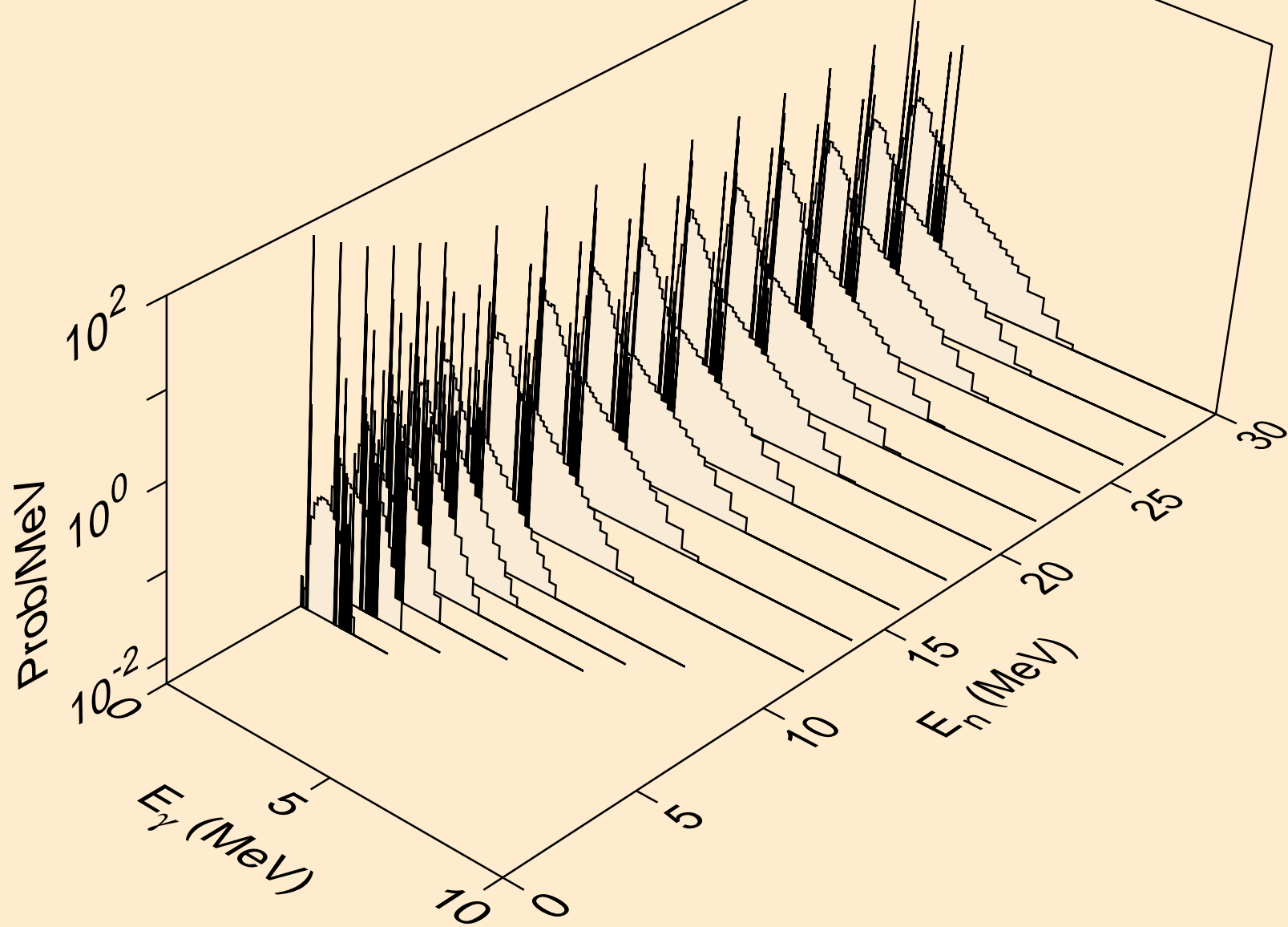
CS139 HELION ACER TENDL-2021 LIBRARY; T=0.K
Photon emission for (n,2nd)



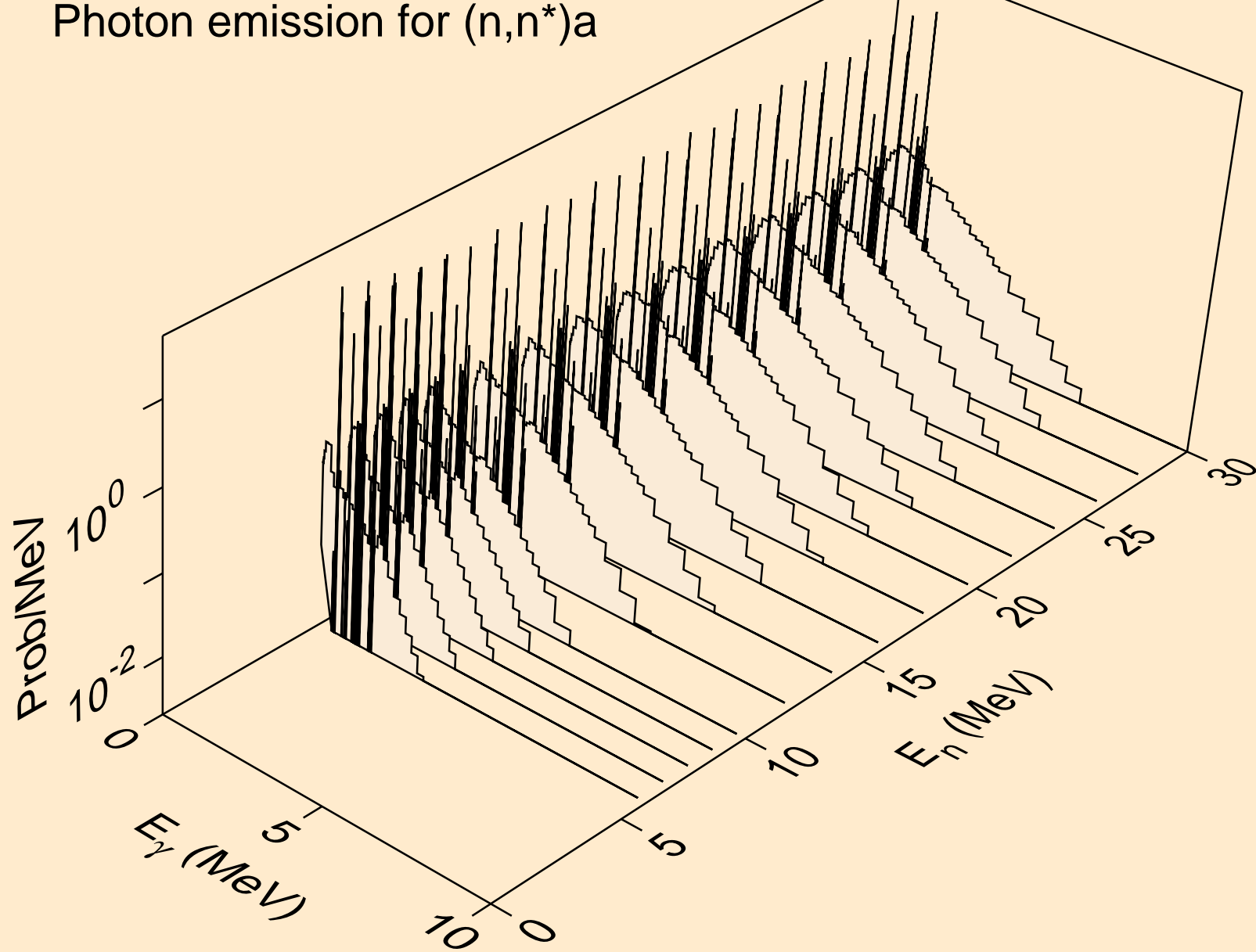
CS139 HELION ACER TENDL-2021 LIBRARY; T=0.K
Photon emission for (n,2n)



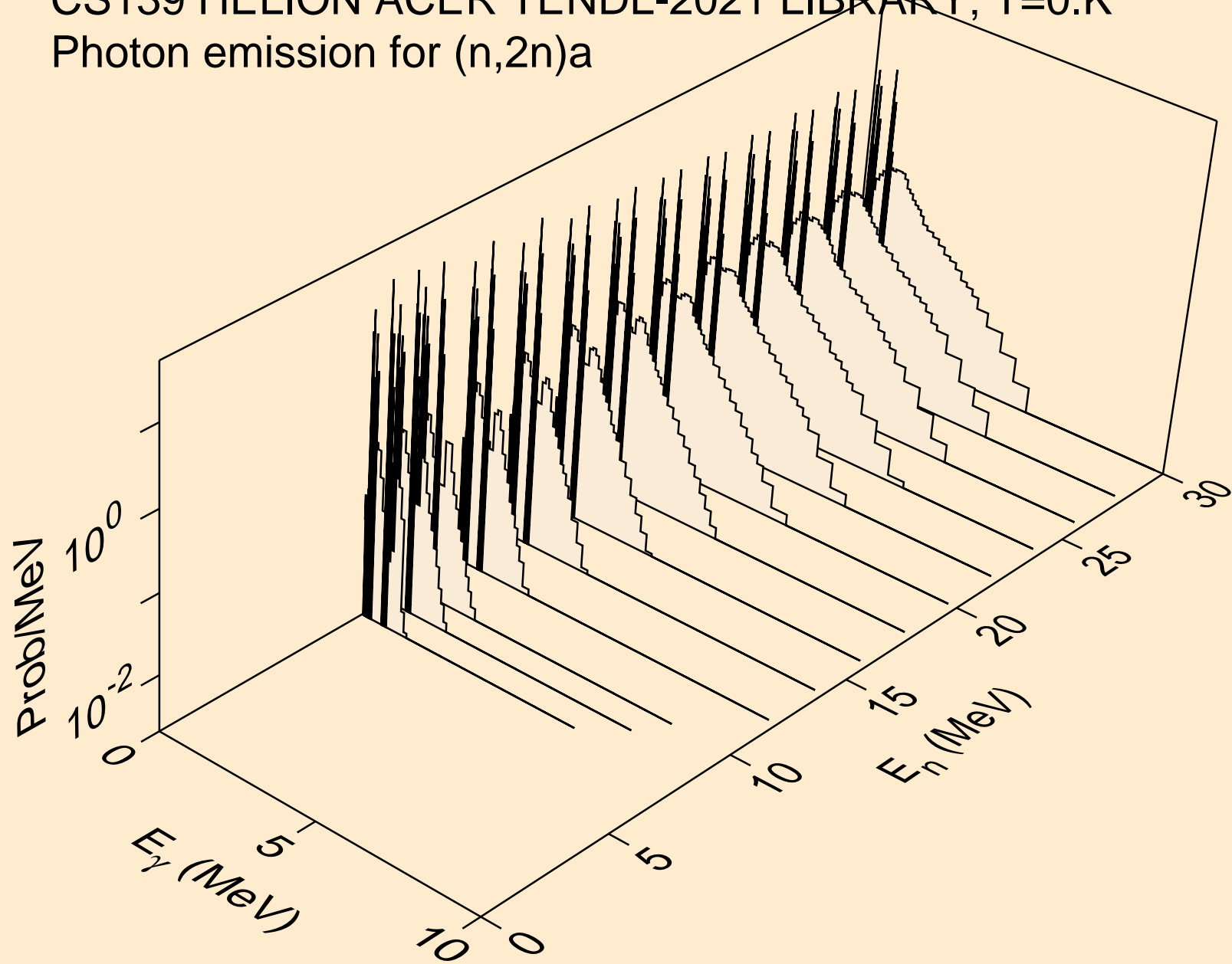
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Photon emission for (n,3n)



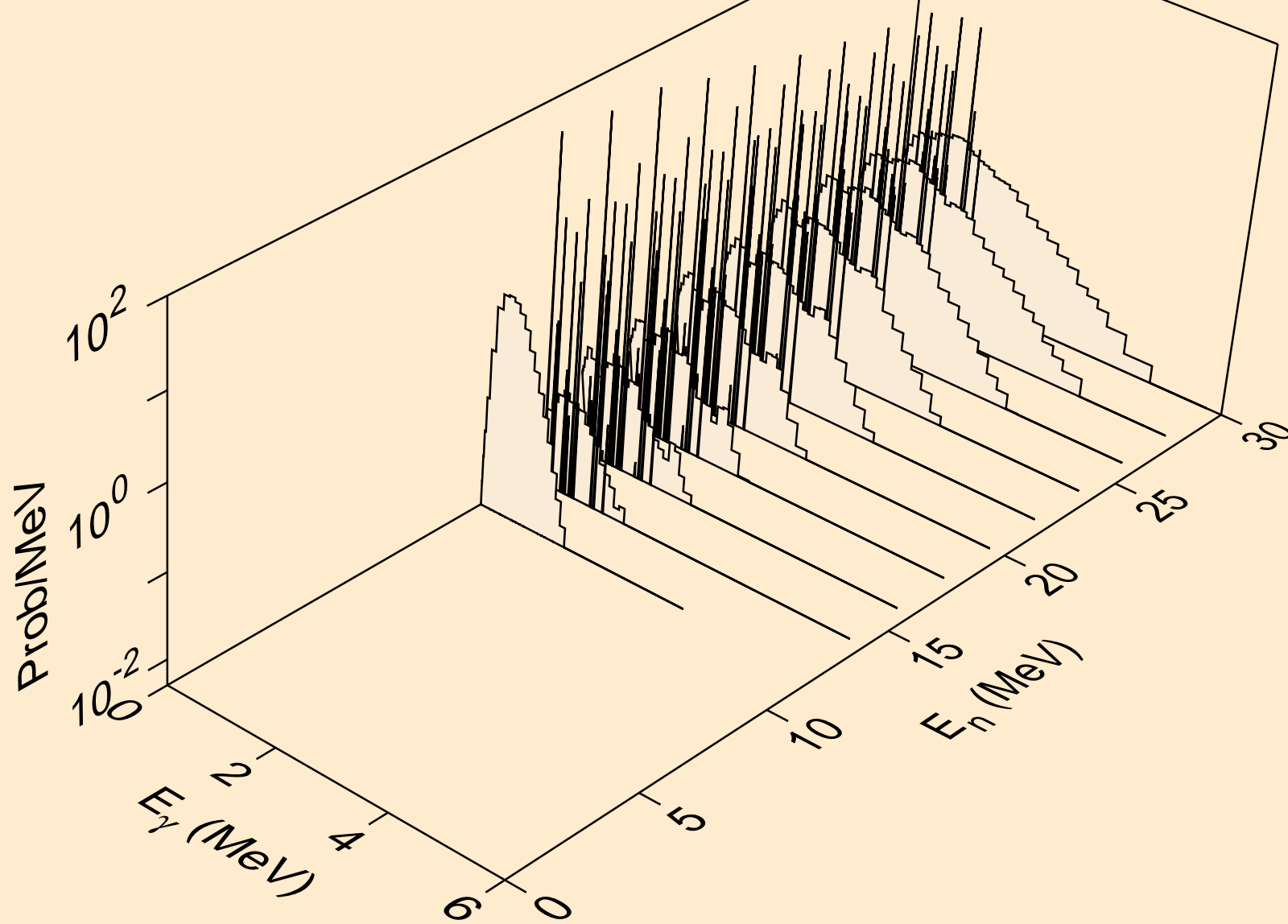
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Photon emission for (n,n*)a



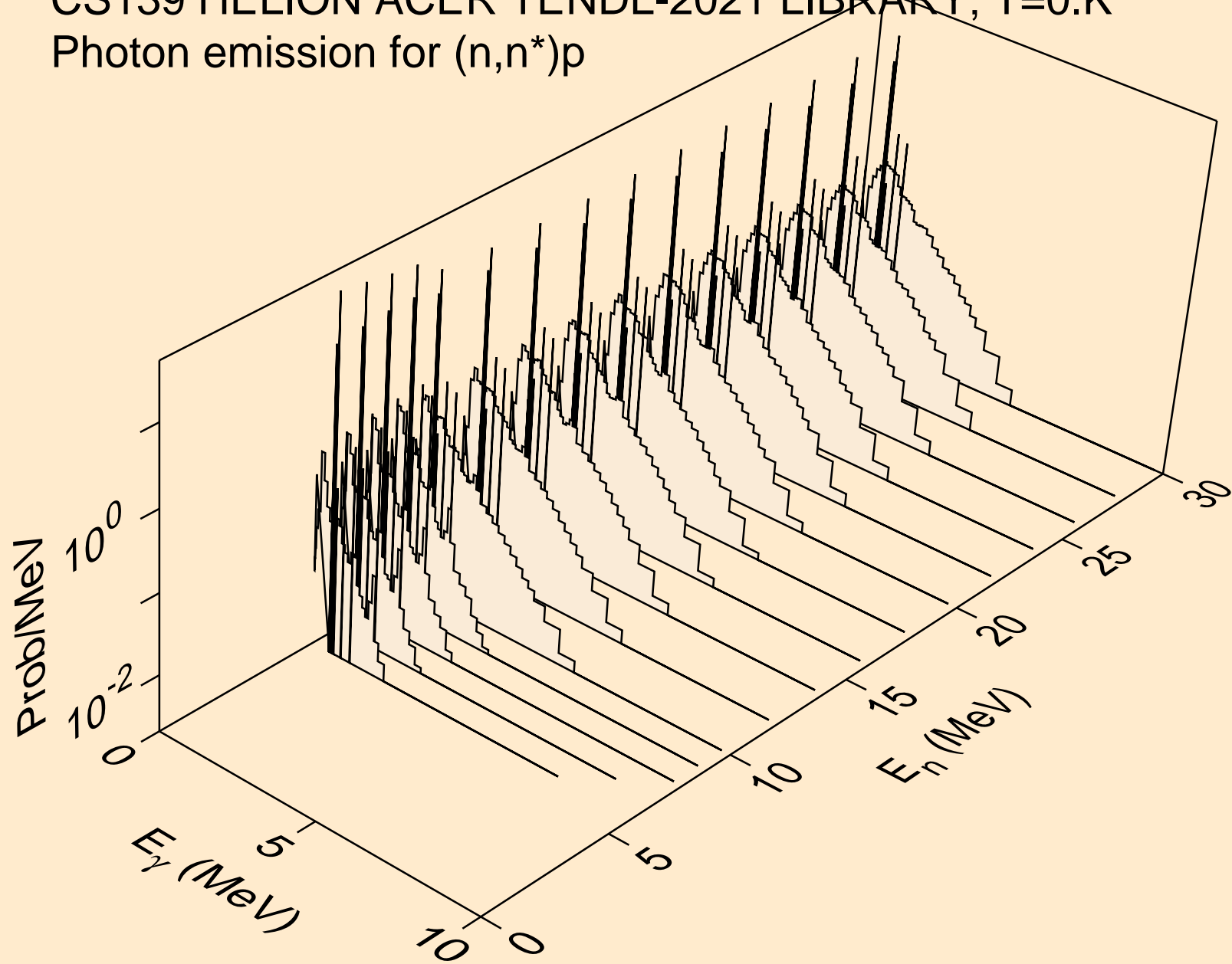
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Photon emission for (n,2n)a



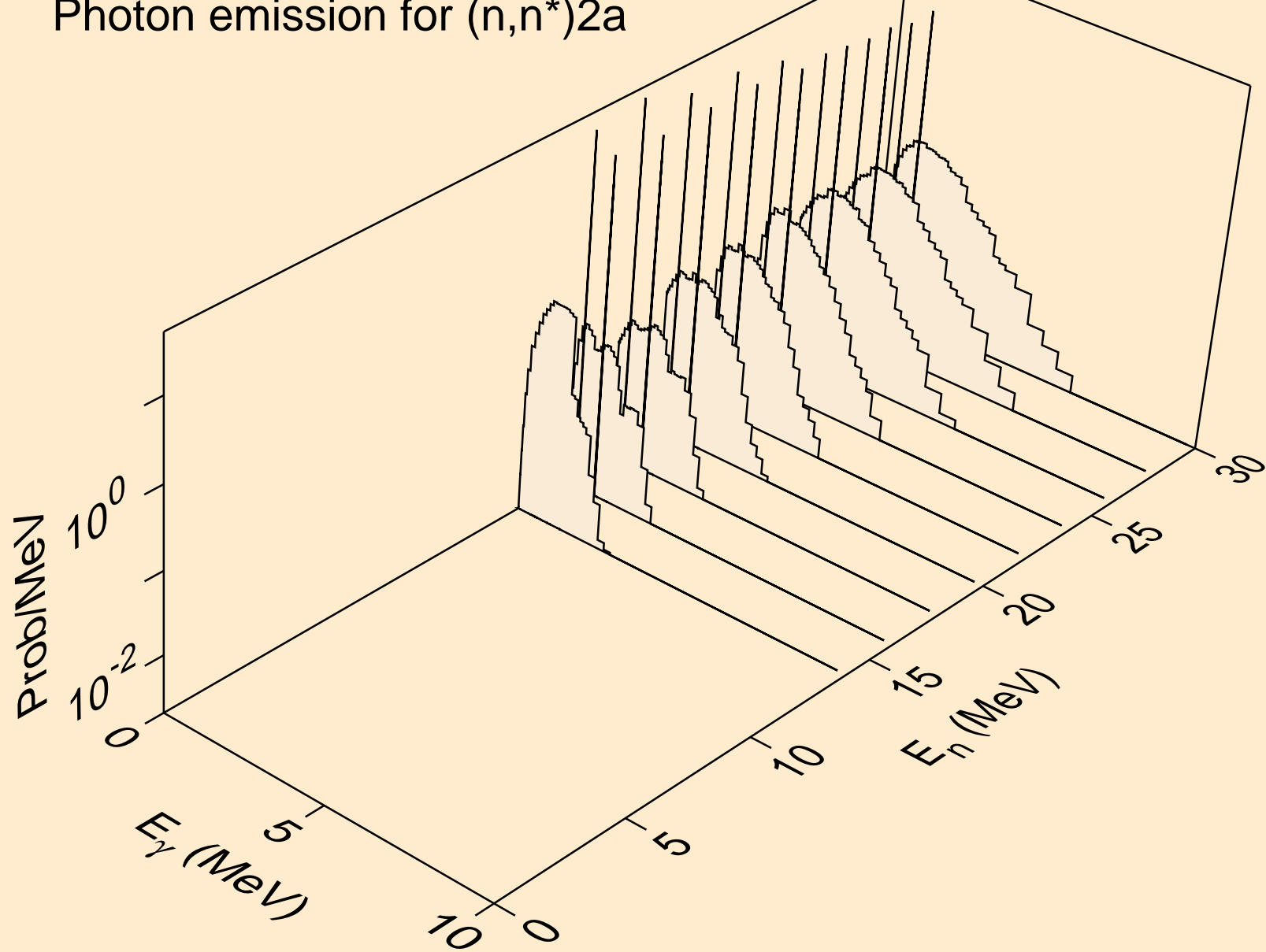
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Photon emission for (n,3n)a



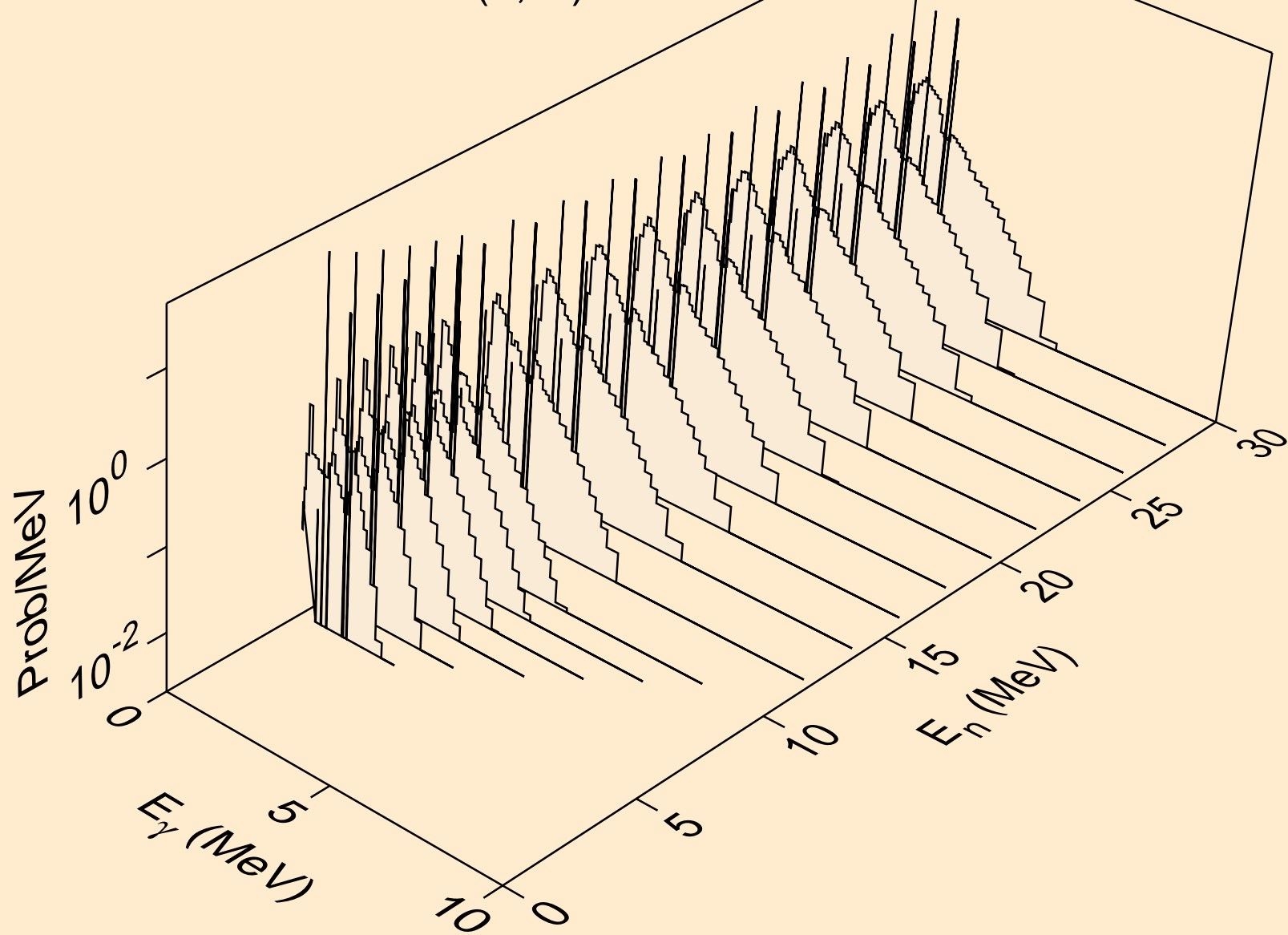
CS139 HELION ACER TENDL-2021 LIBRARY; T=0.K
Photon emission for (n,n*)p



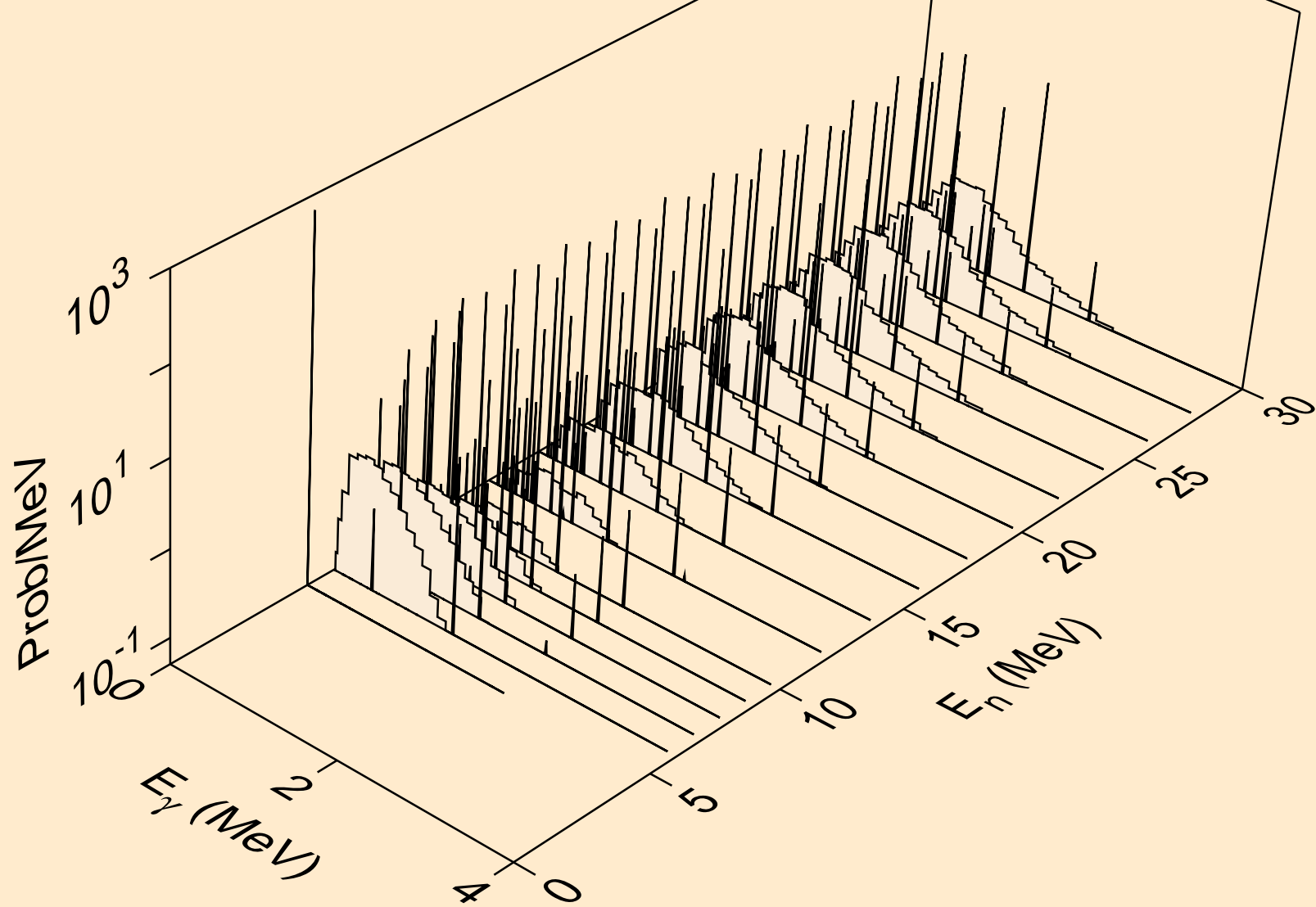
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Photon emission for (n,n*)2a



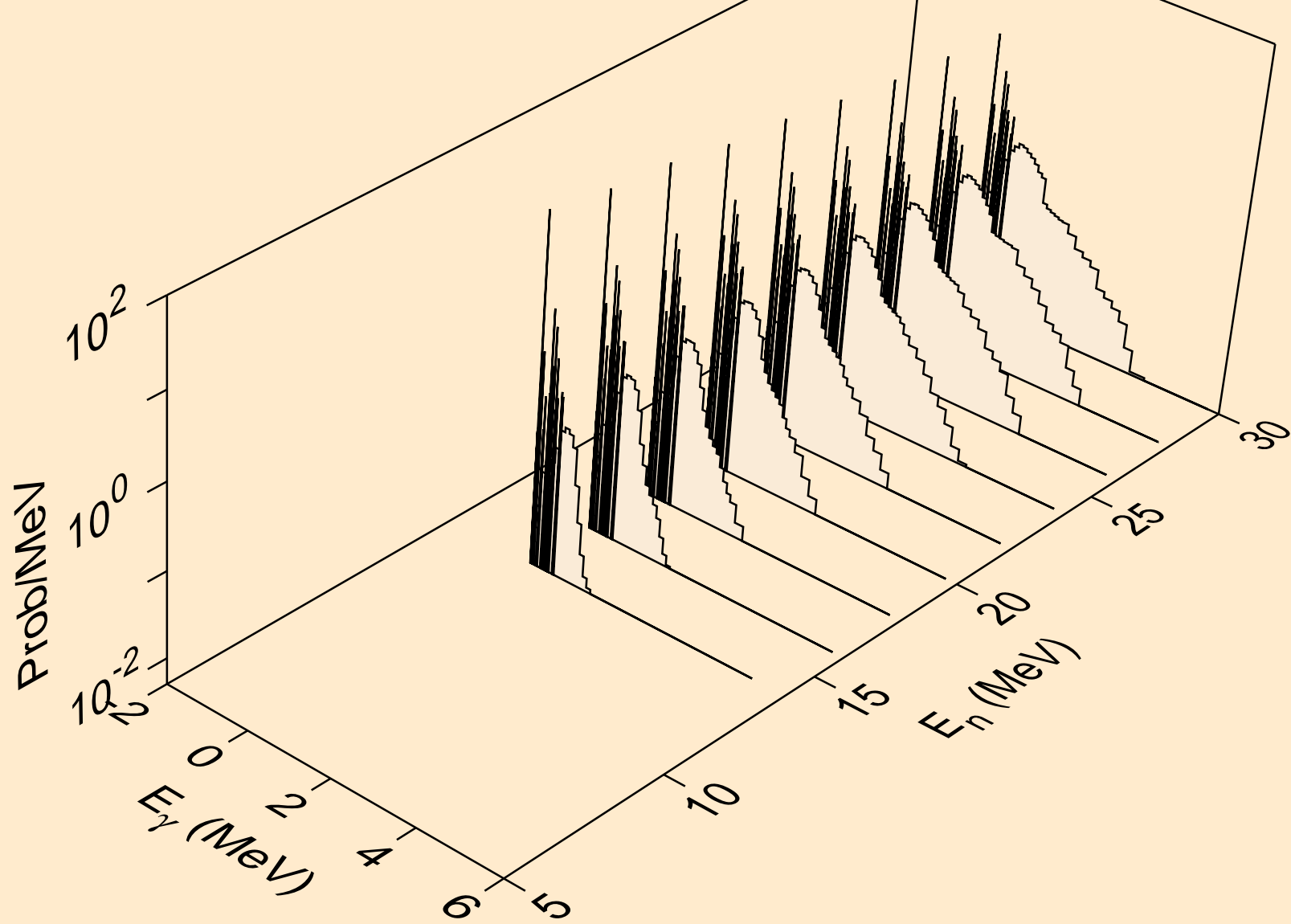
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Photon emission for (n,n*)d



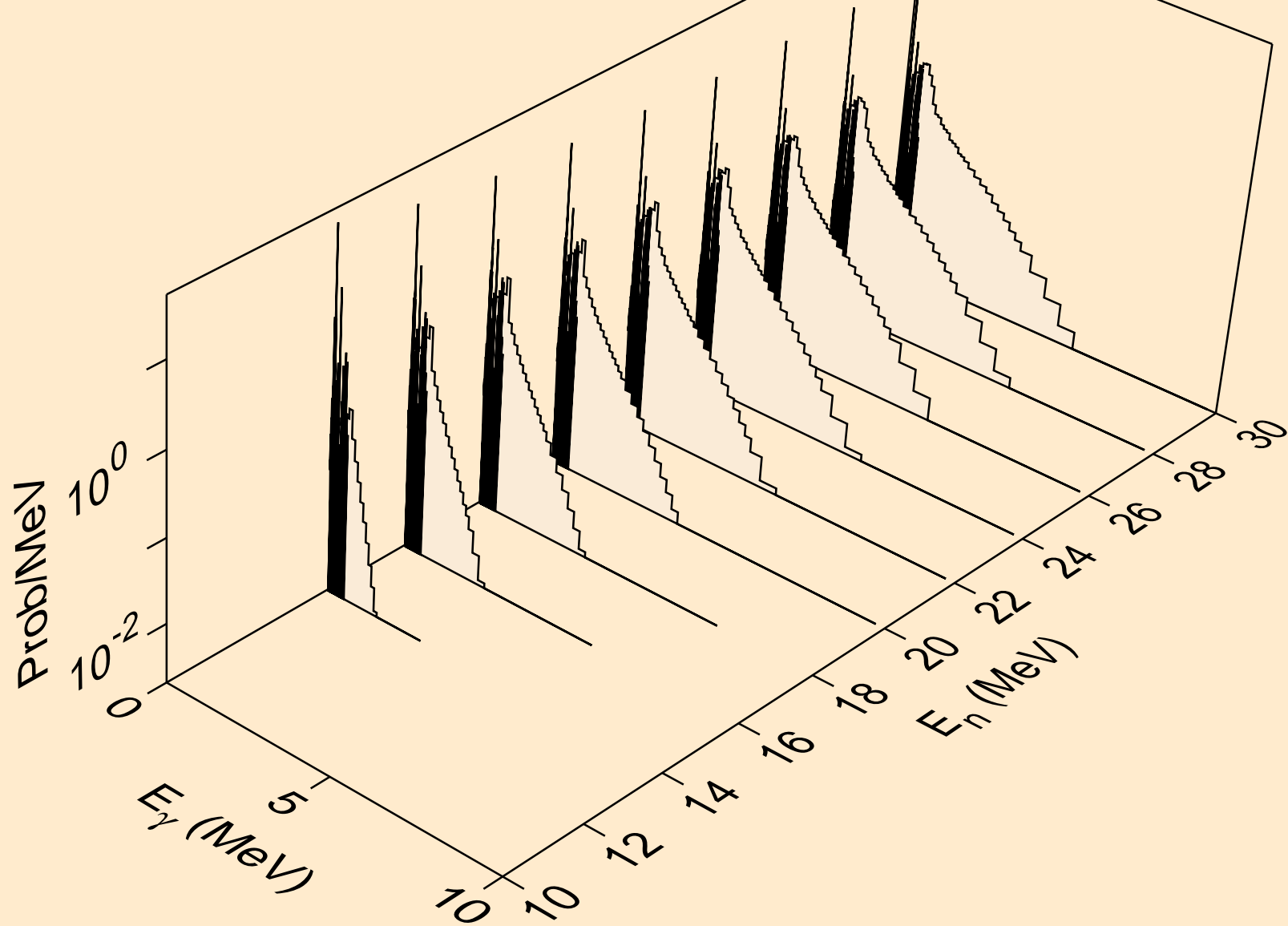
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Photon emission for (n,n*)t



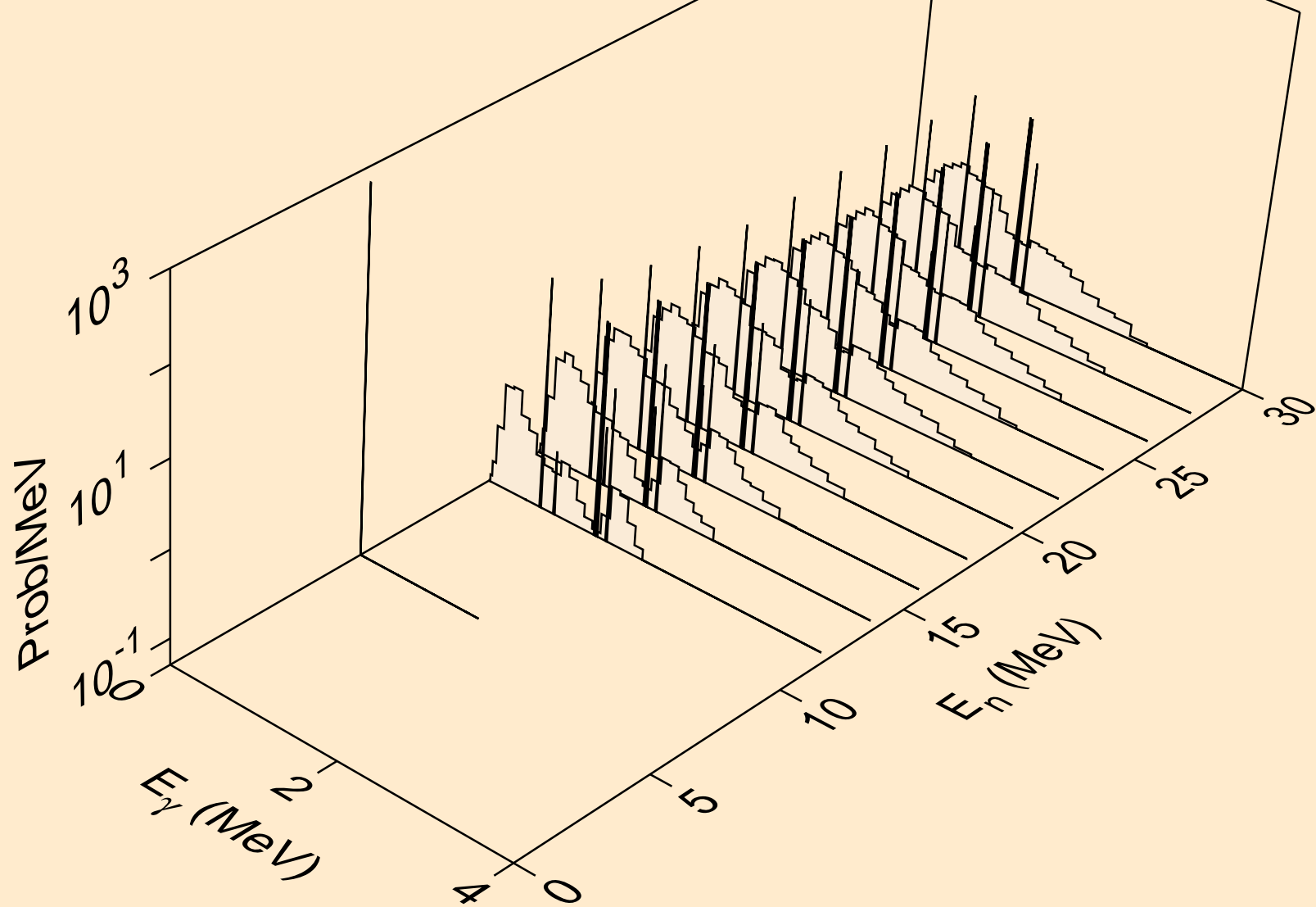
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Photon emission for (n,n*)he3



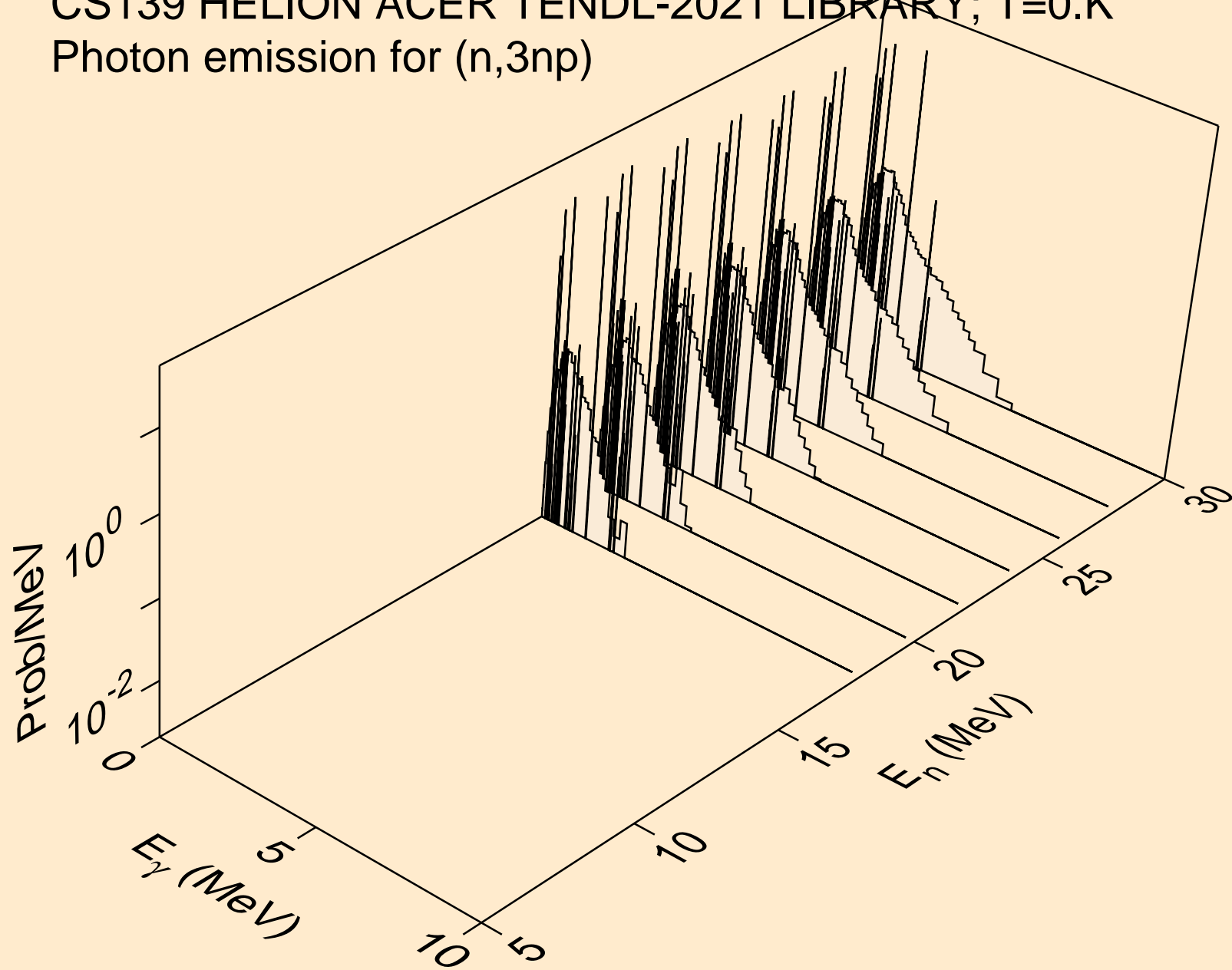
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Photon emission for (n,4n)



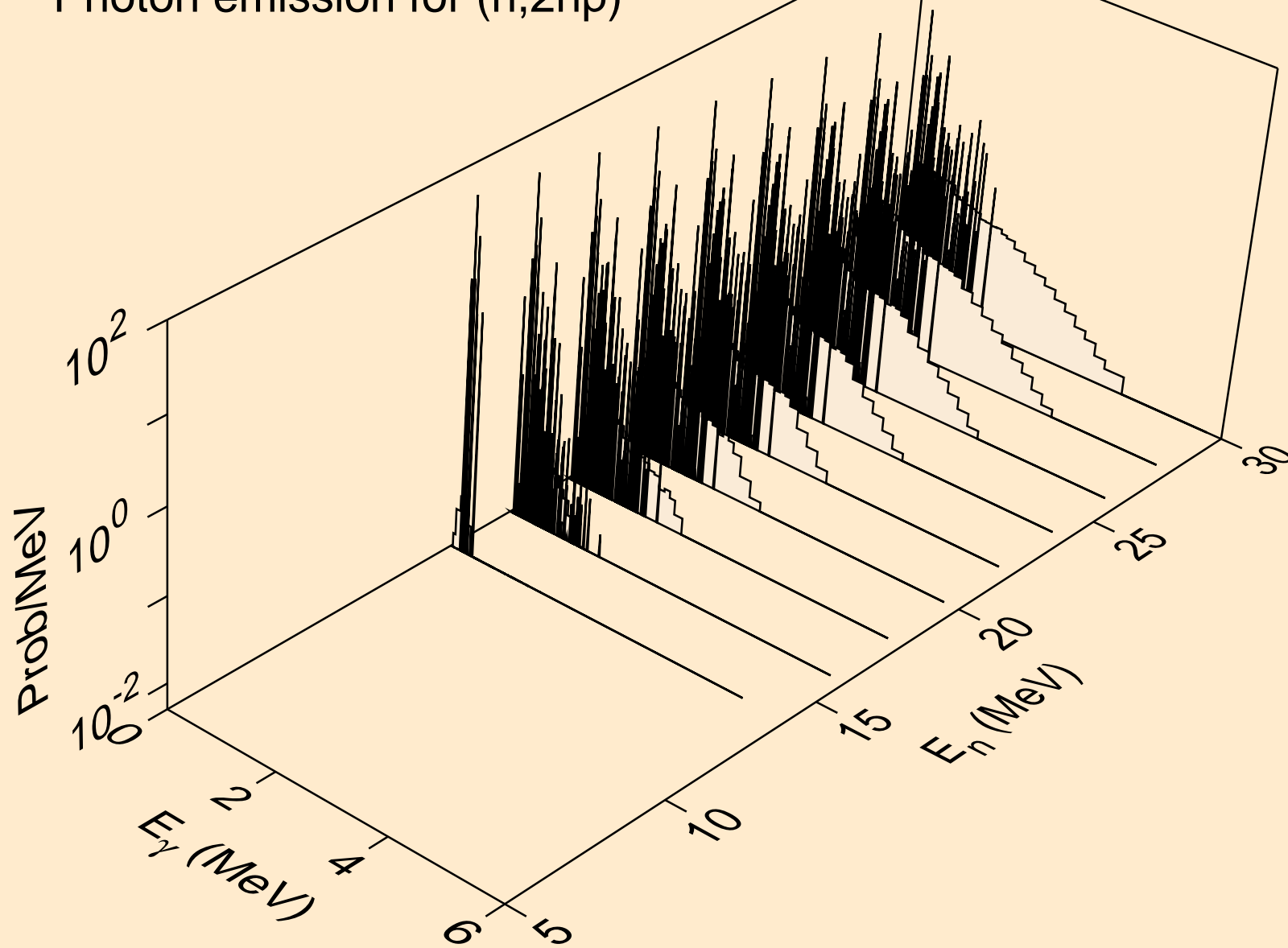
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Photon emission for (n,2np)



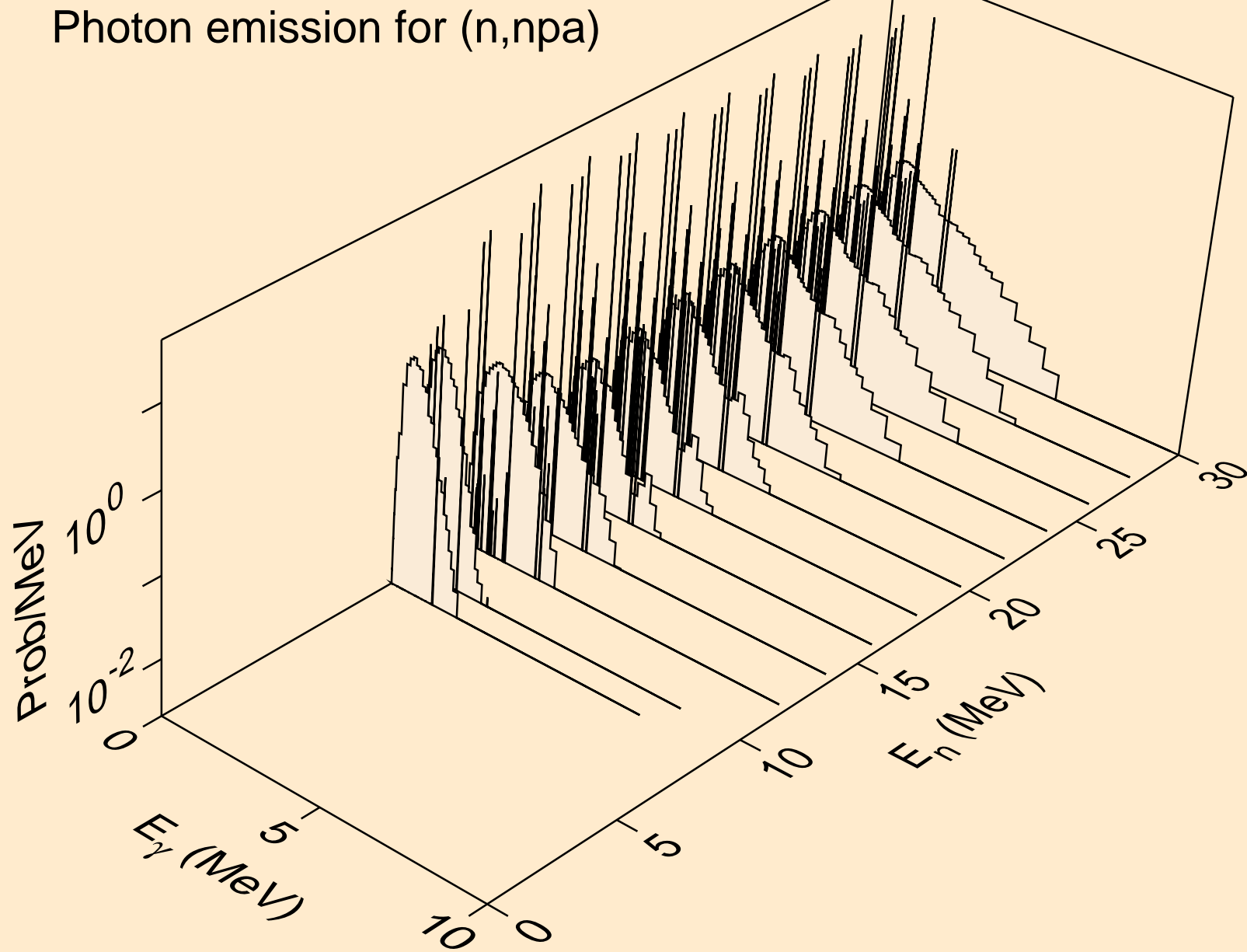
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Photon emission for (n,3np)



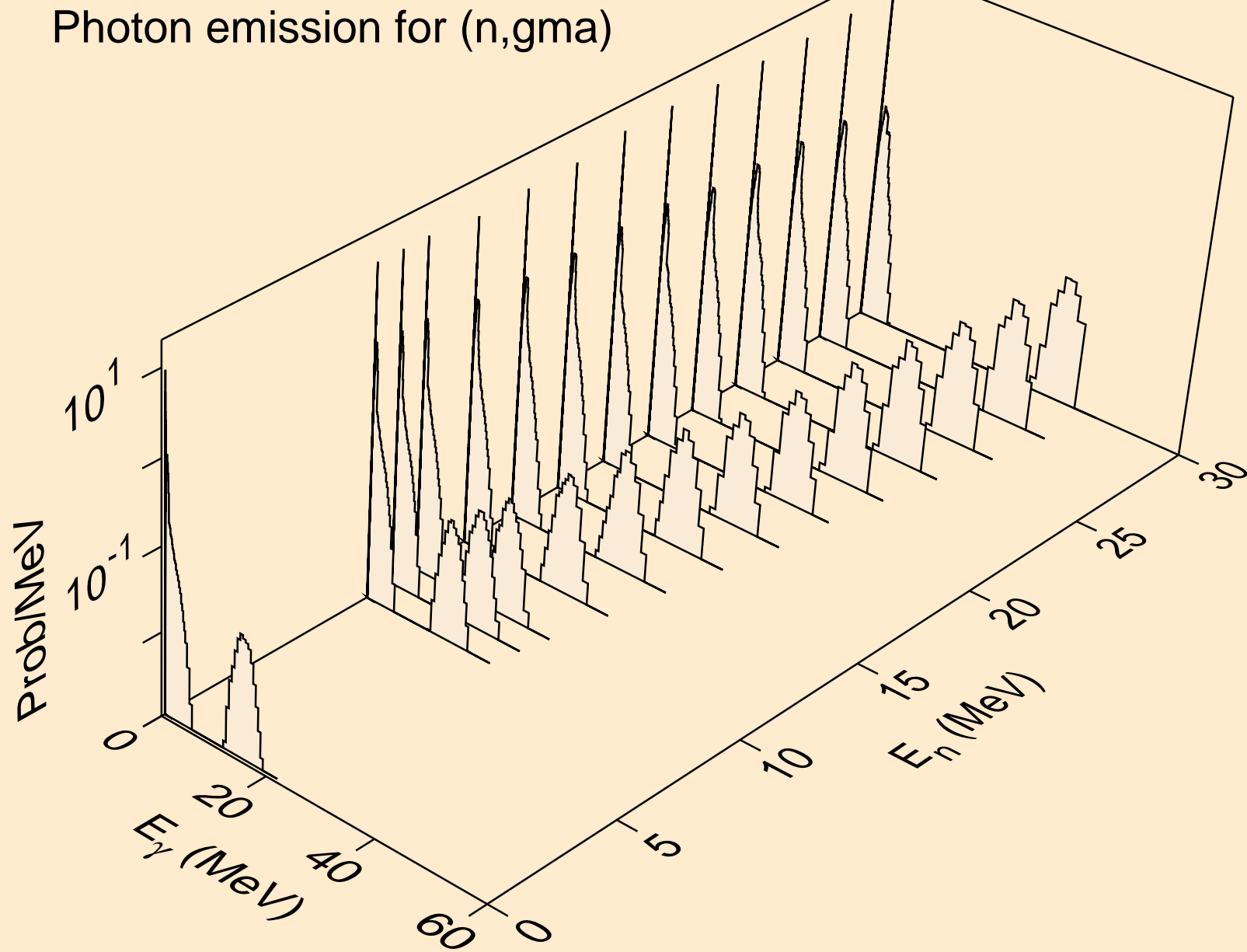
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Photon emission for (n,2np)



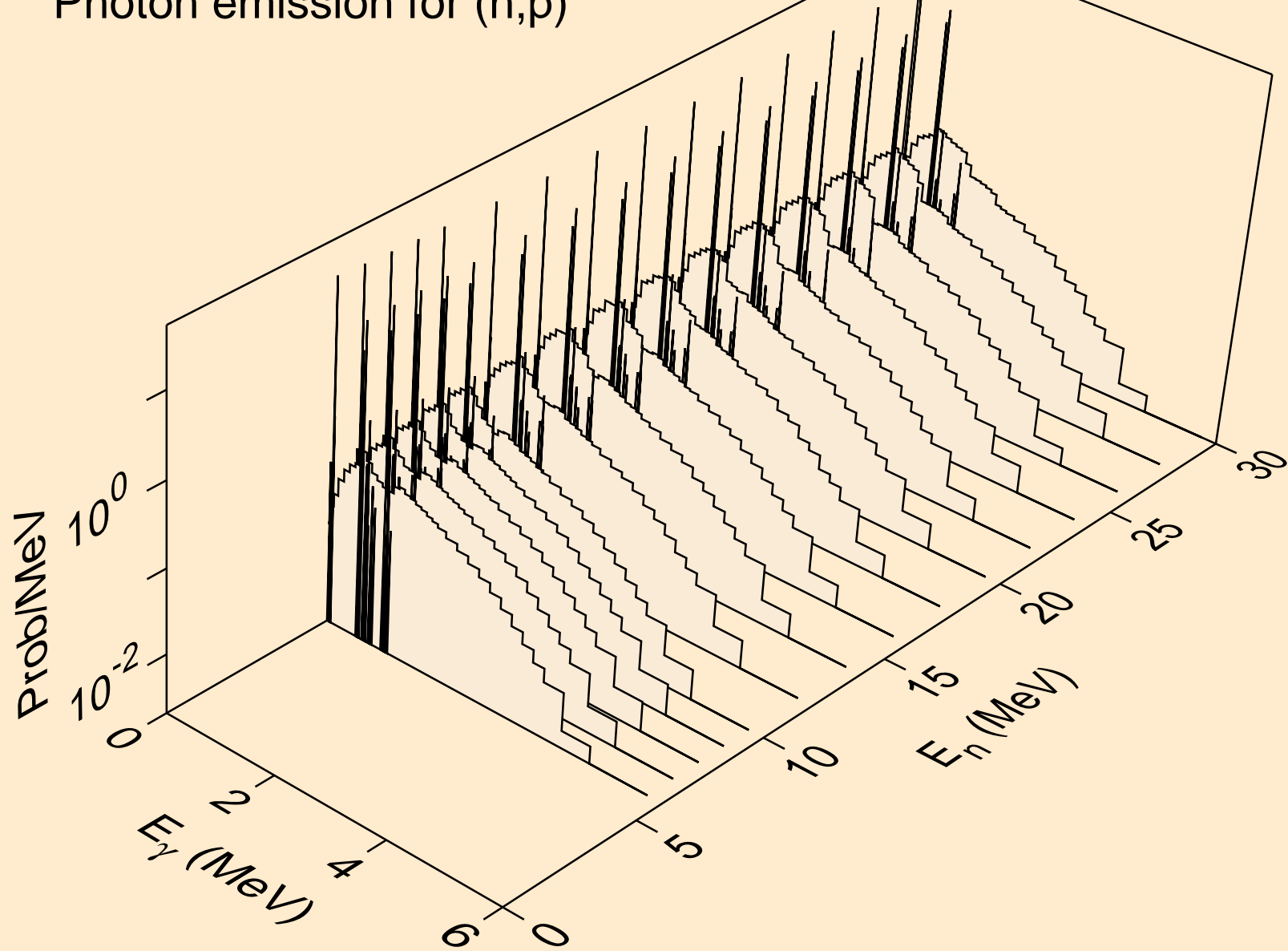
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Photon emission for (n,npa)



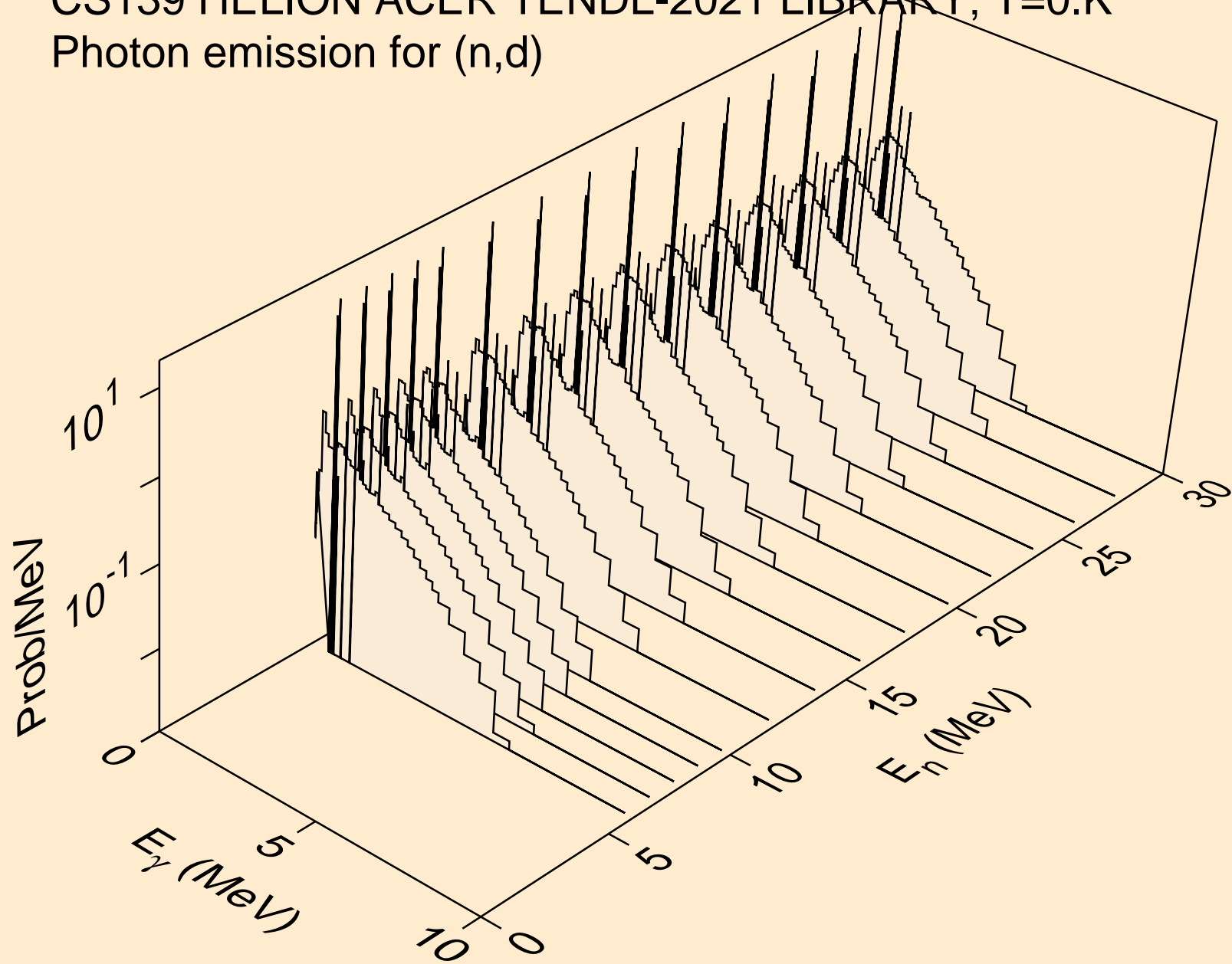
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Photon emission for (n,gma)



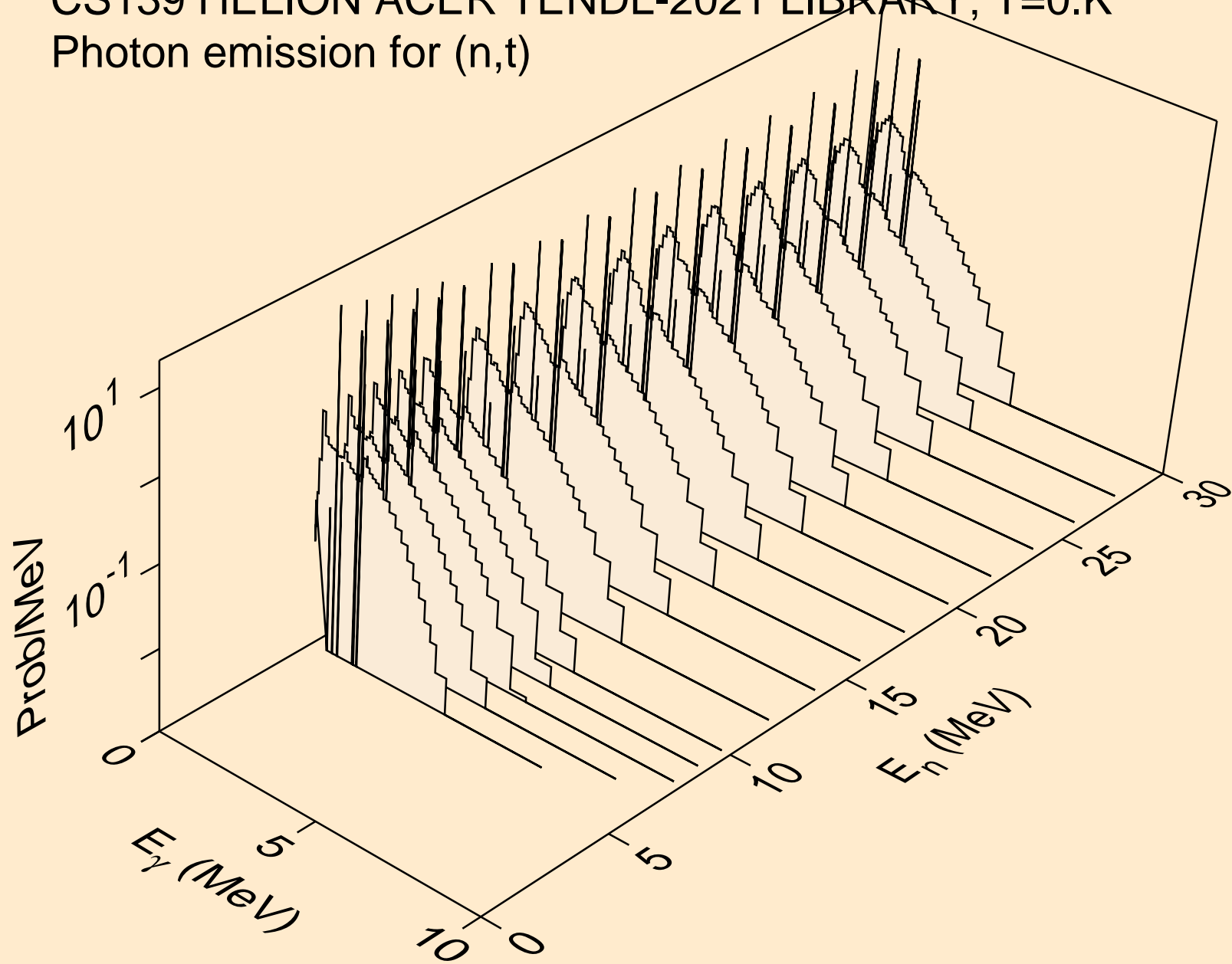
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Photon emission for (n,p)



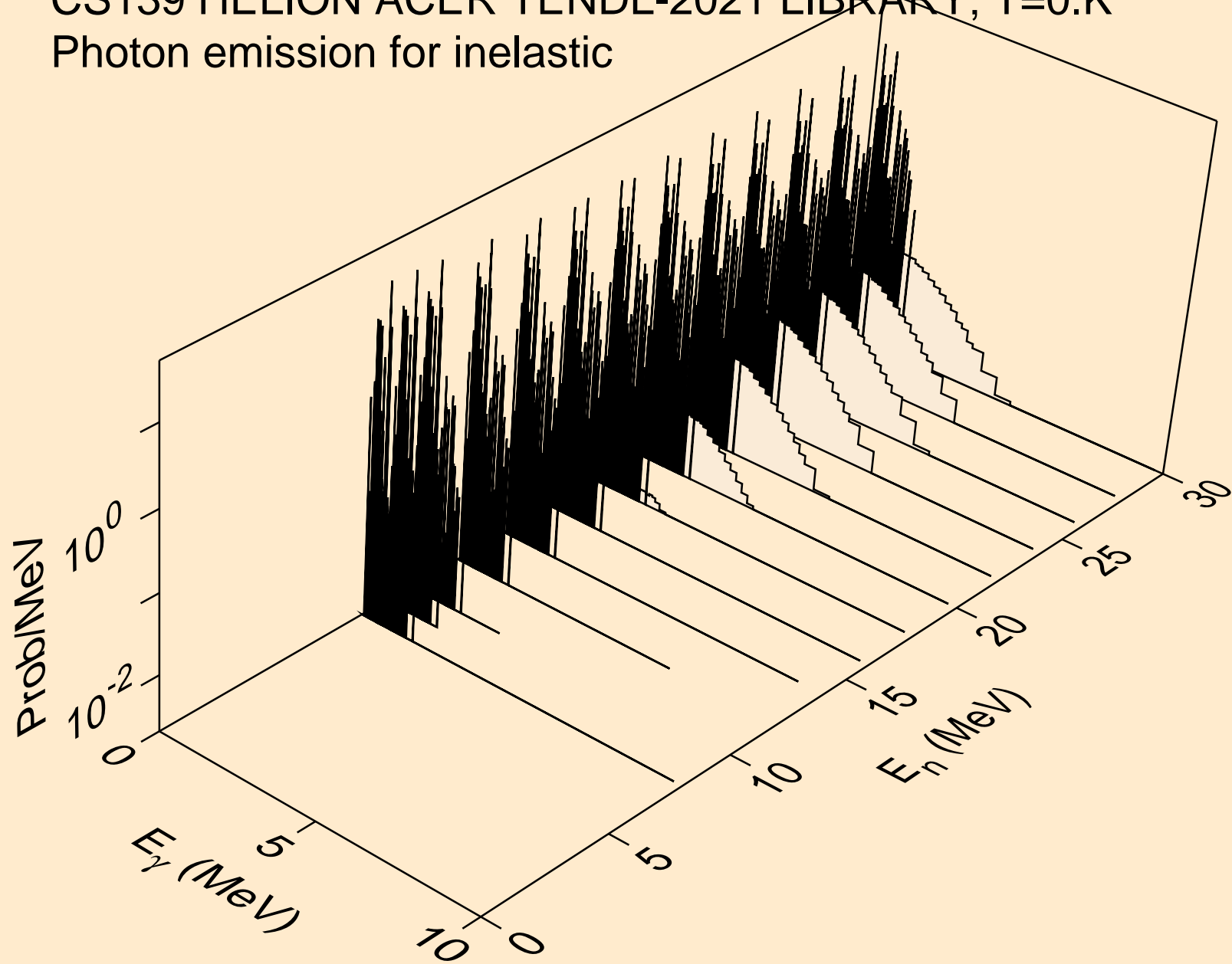
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Photon emission for (n,d)



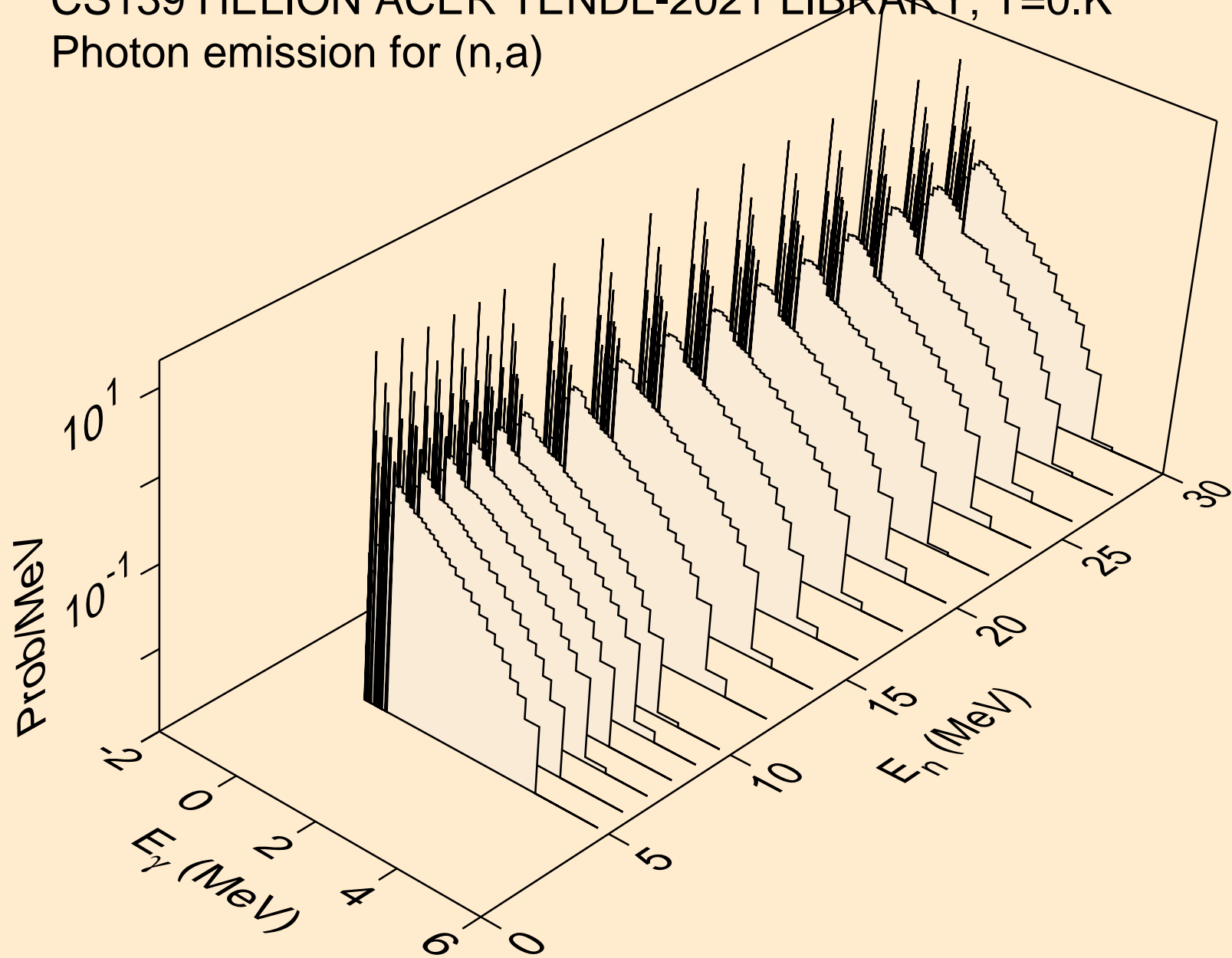
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Photon emission for (n,t)



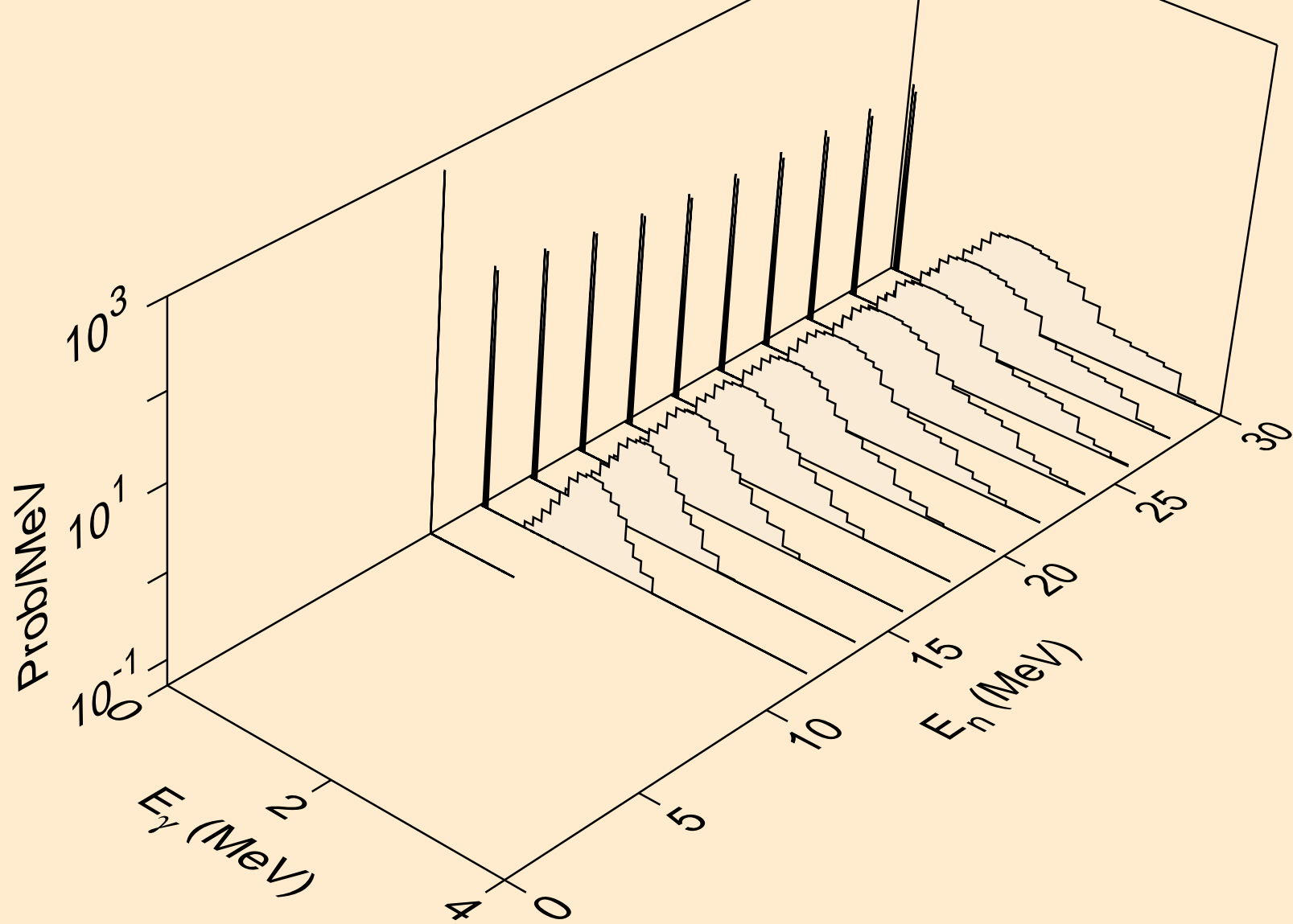
CS139 HELION ACER TENDL-2021 LIBRARY; T=0.K
Photon emission for inelastic



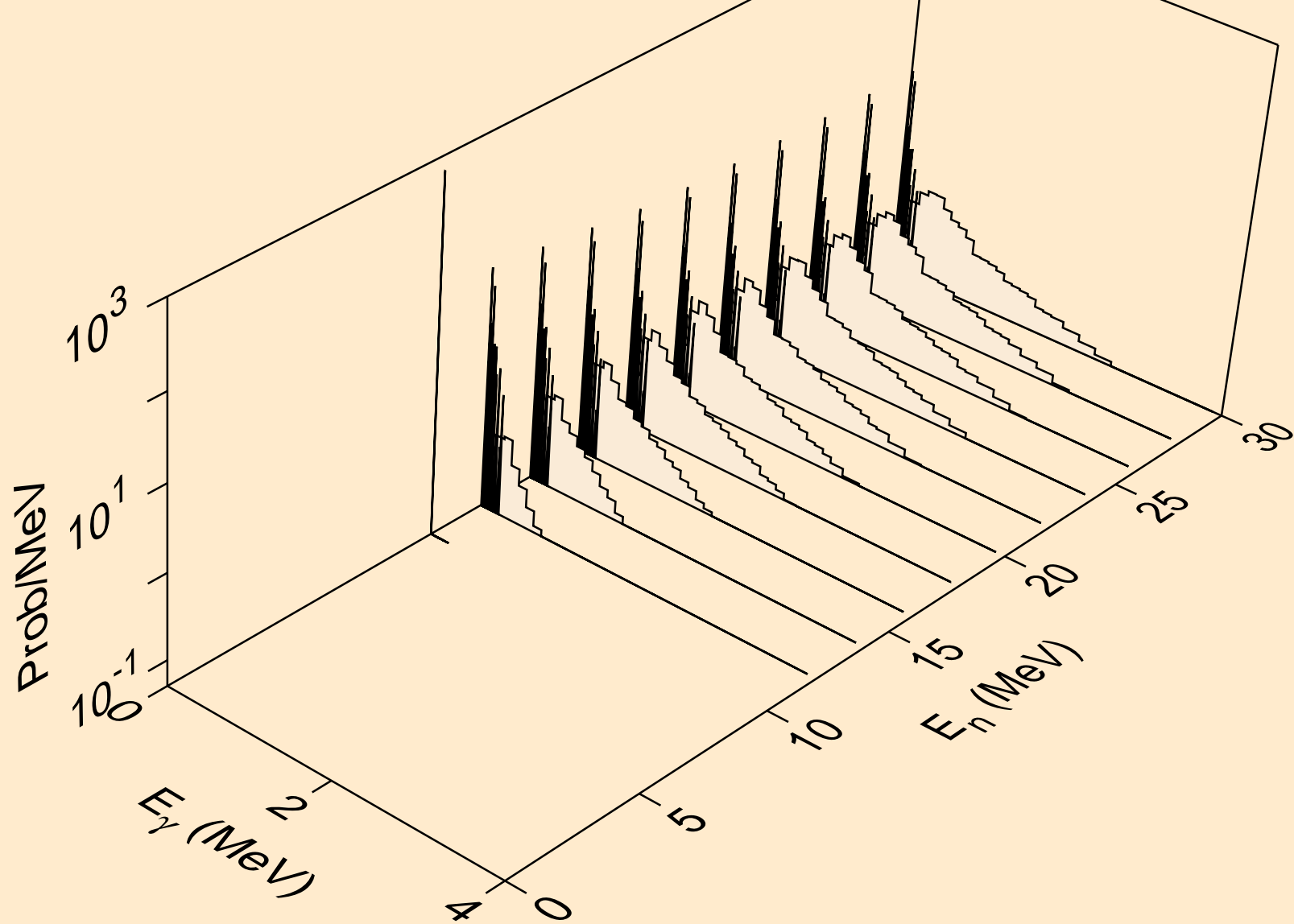
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Photon emission for (n,a)



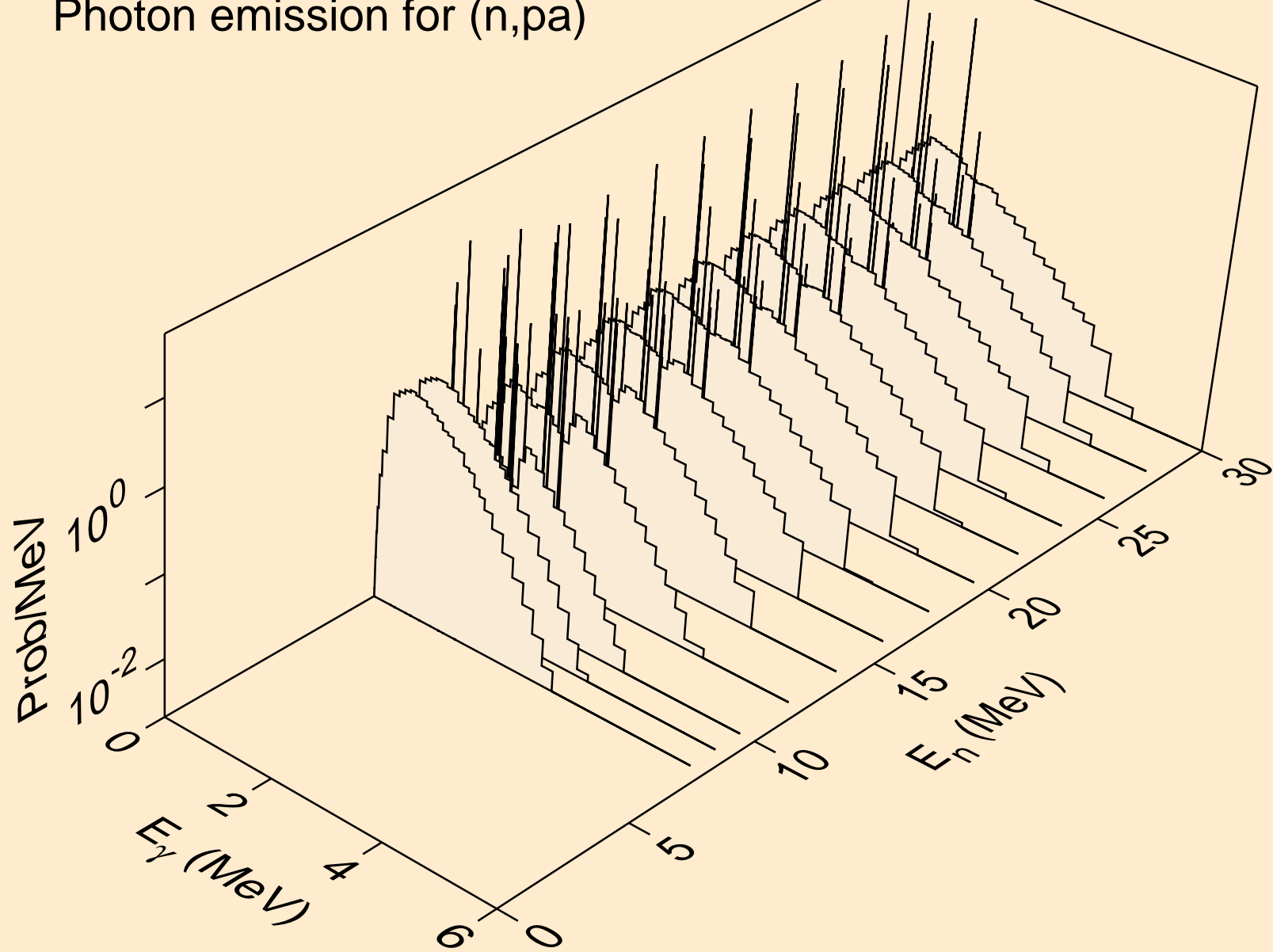
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Photon emission for (n,2a)



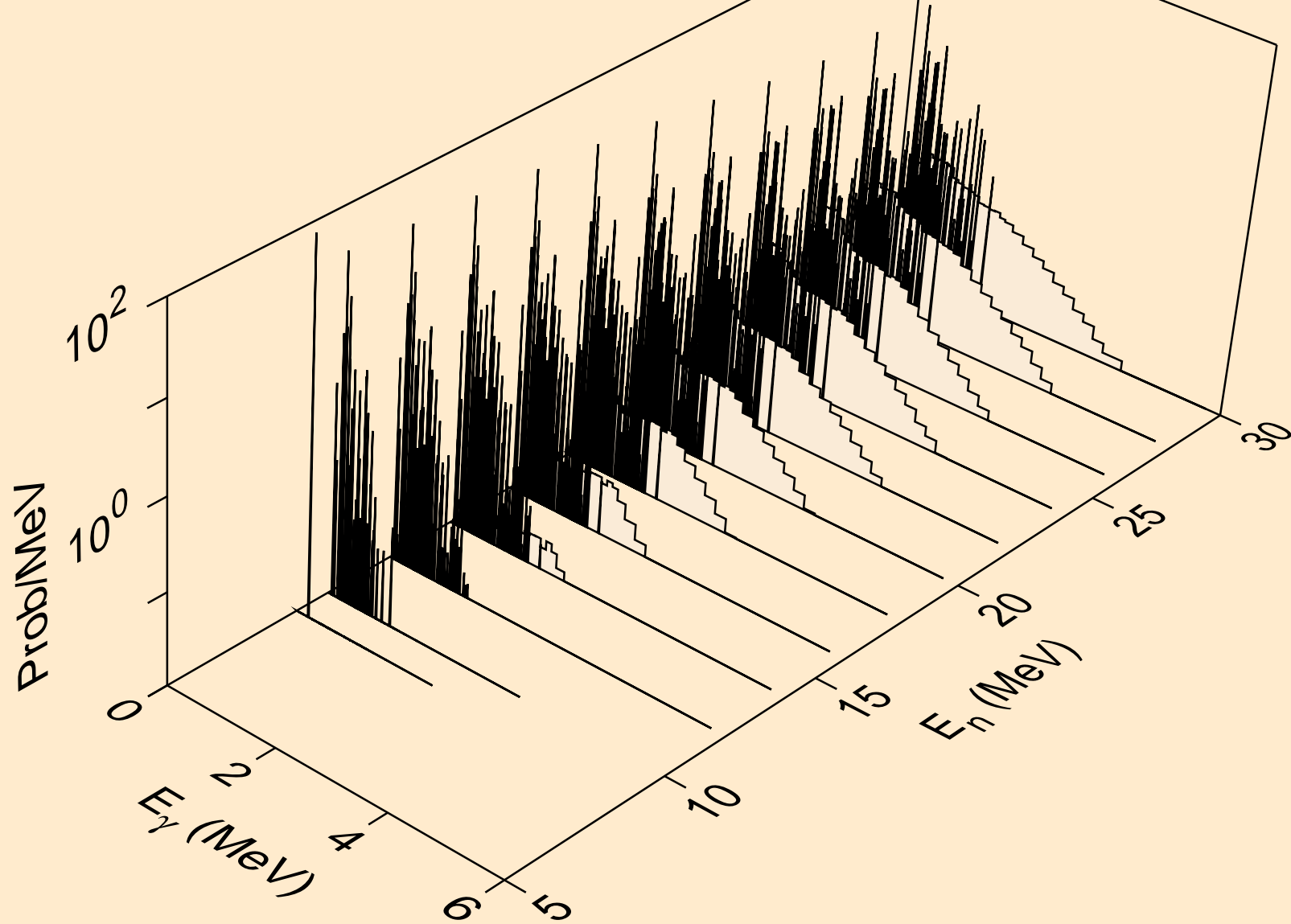
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Photon emission for (n,2p)



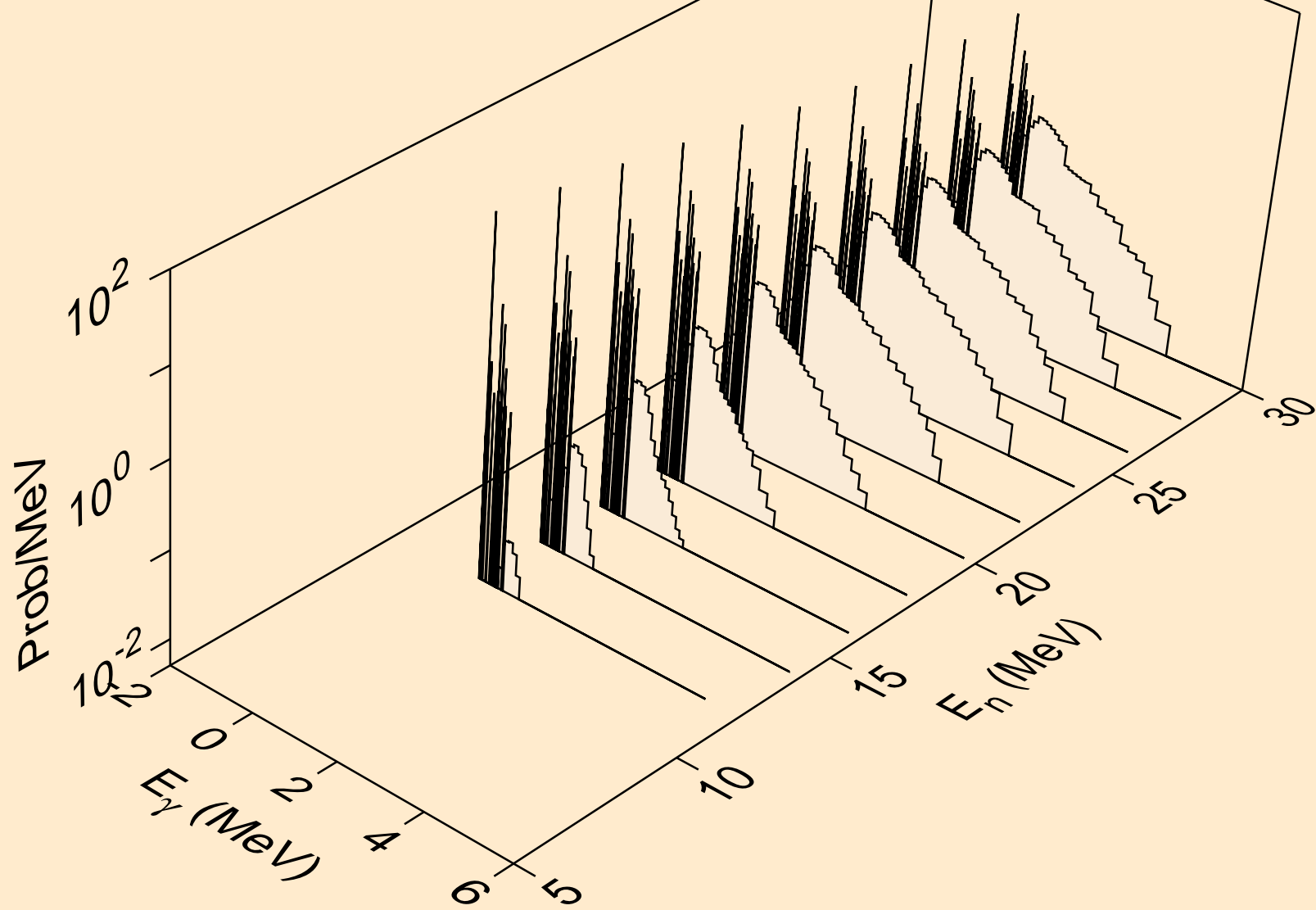
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Photon emission for (n,pa)



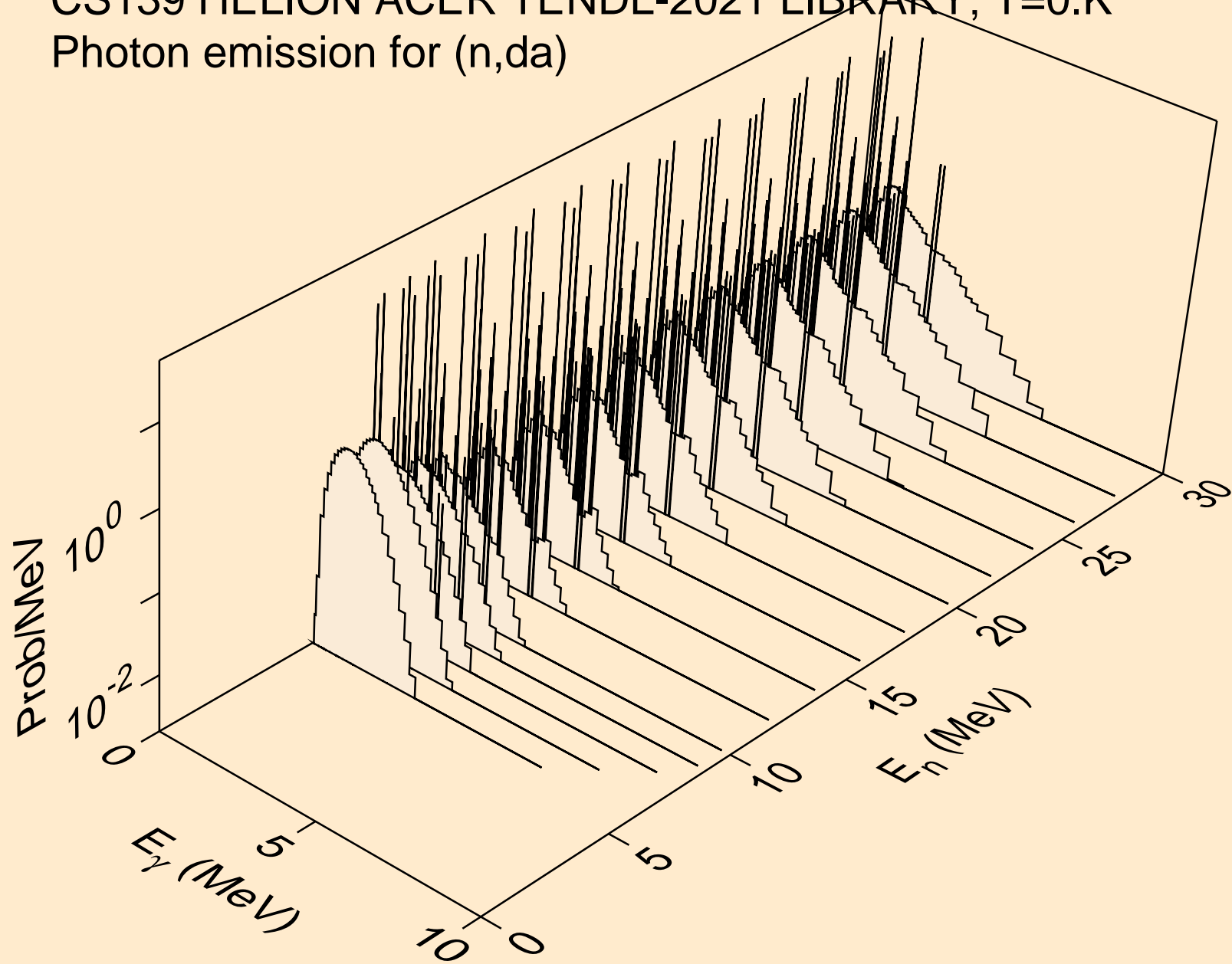
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Photon emission for (n,pd)



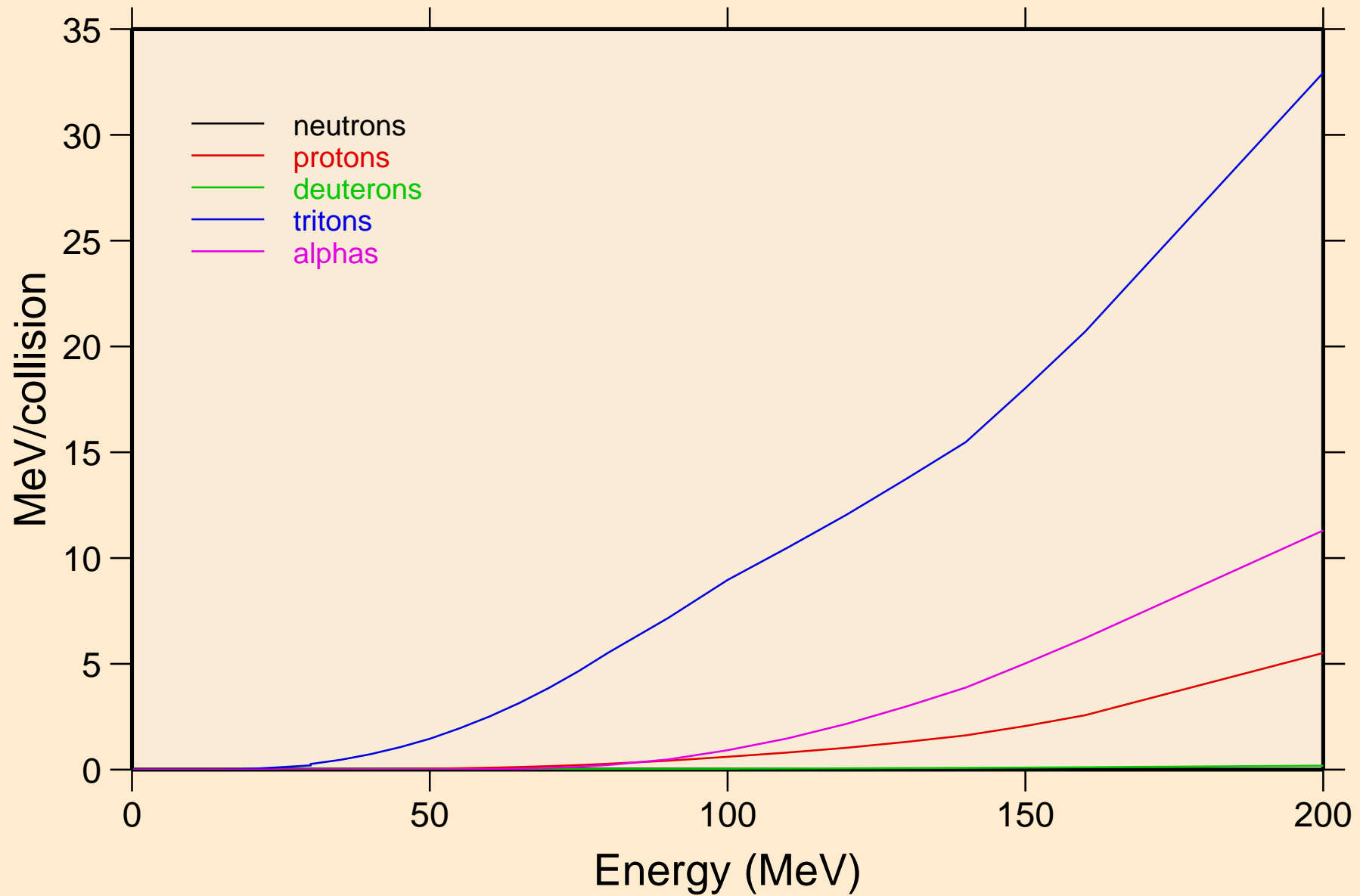
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Photon emission for (n,pt)



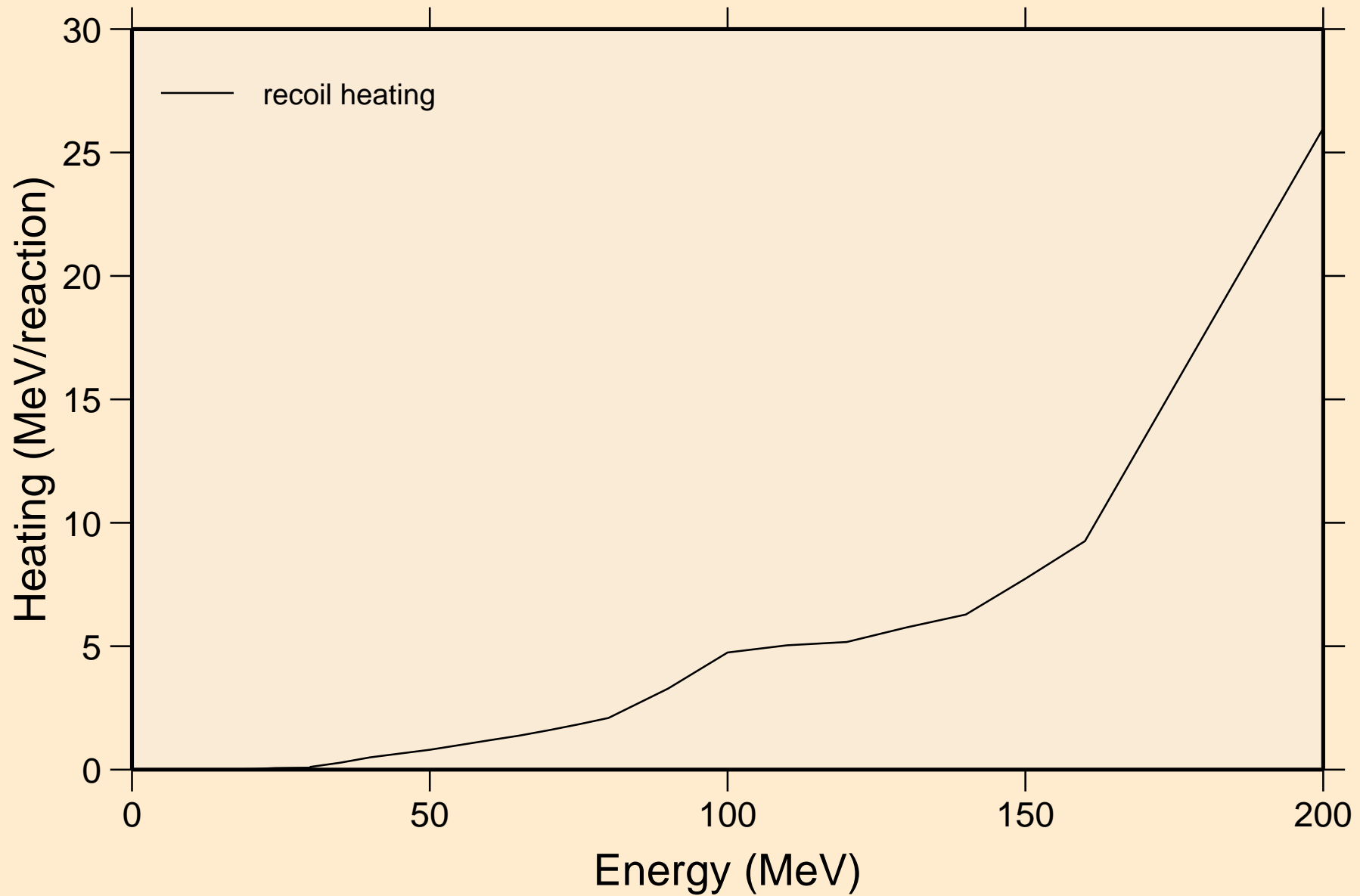
CS139 HELION ACER TENDL-2021 LIBRARY; T=0.K
Photon emission for (n,da)



CS139 HELION ACER TENDL-2021 LIBRARY; T=0.K
Particle heating contributions

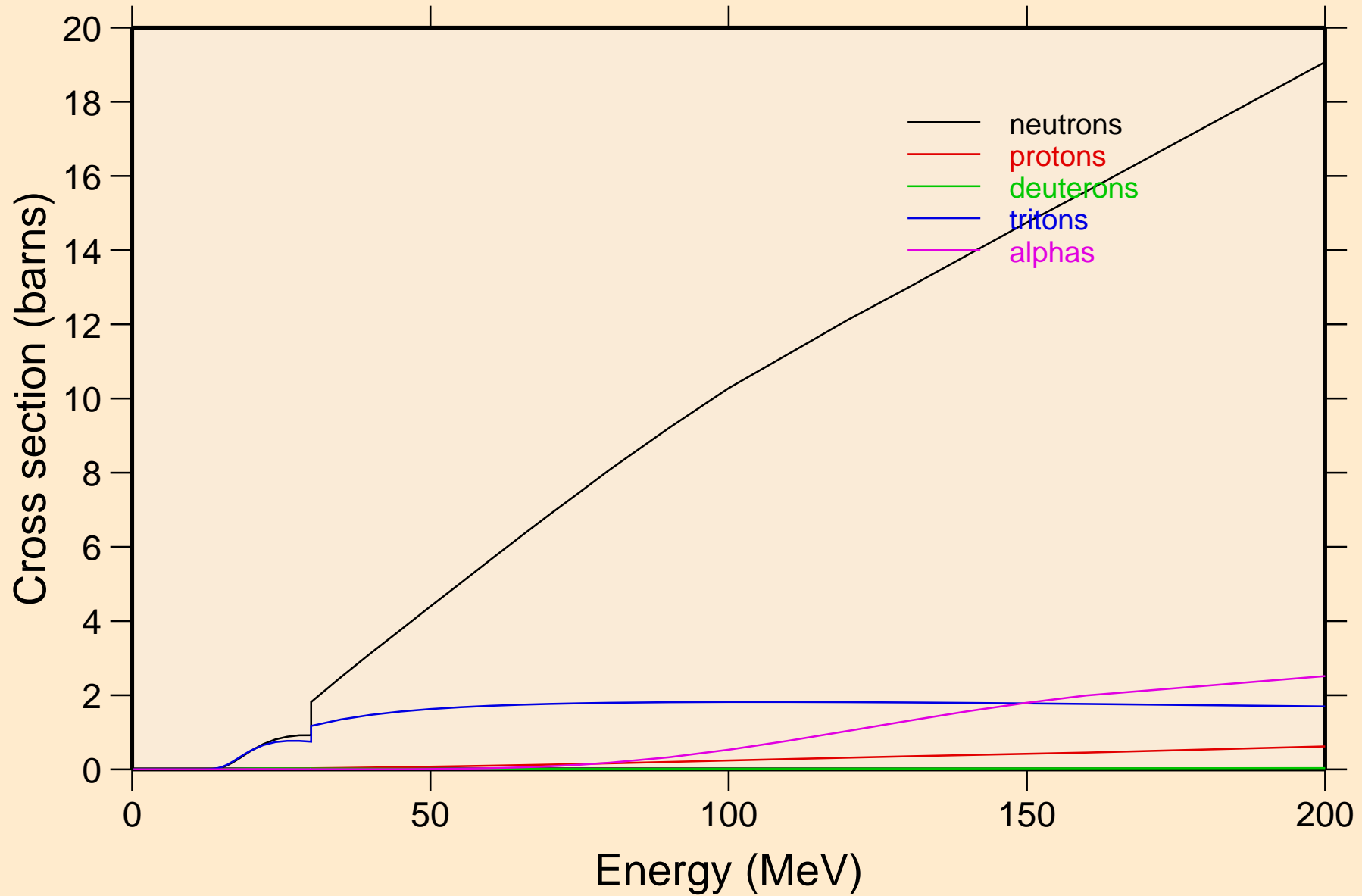


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Recoil Heating

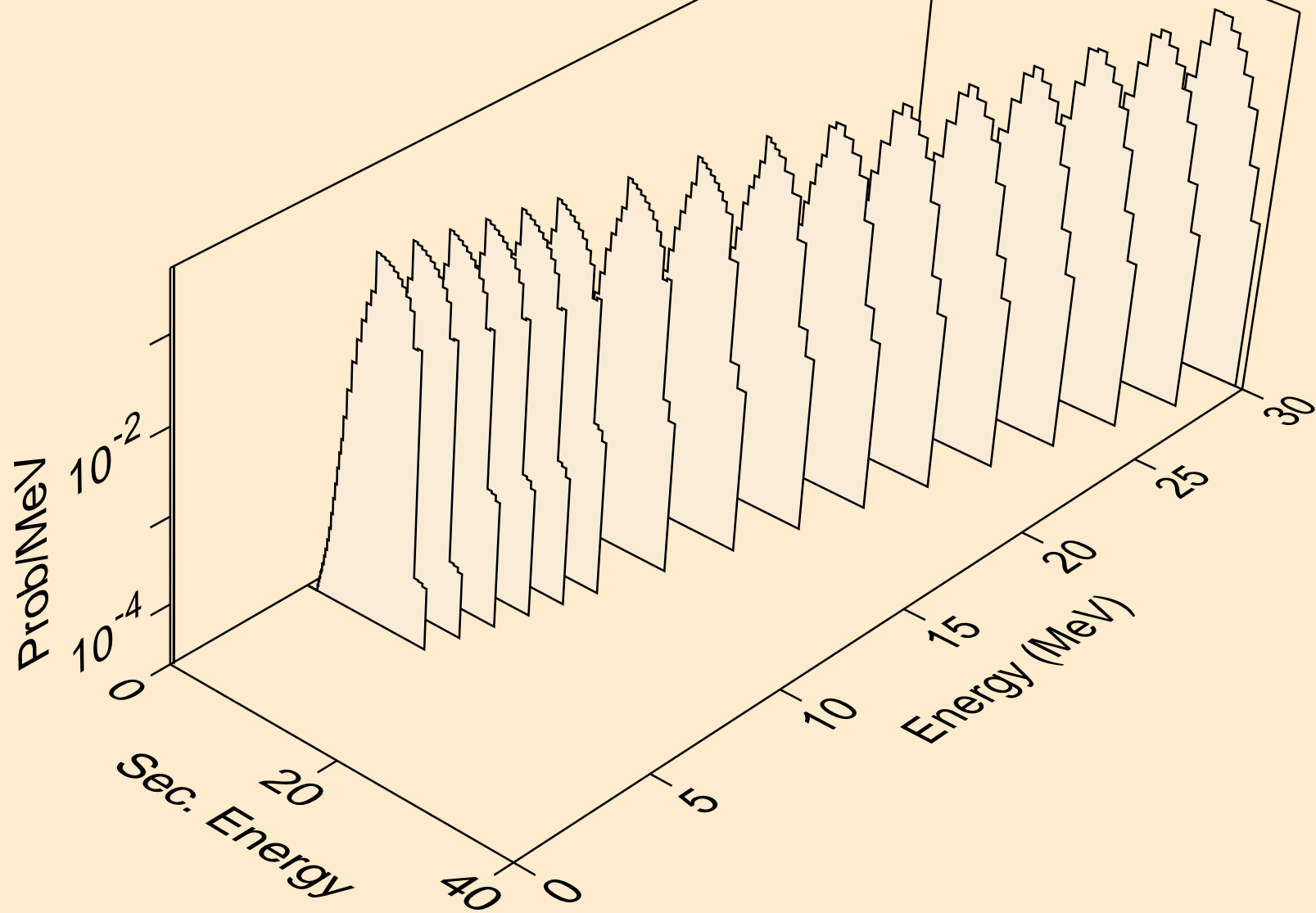


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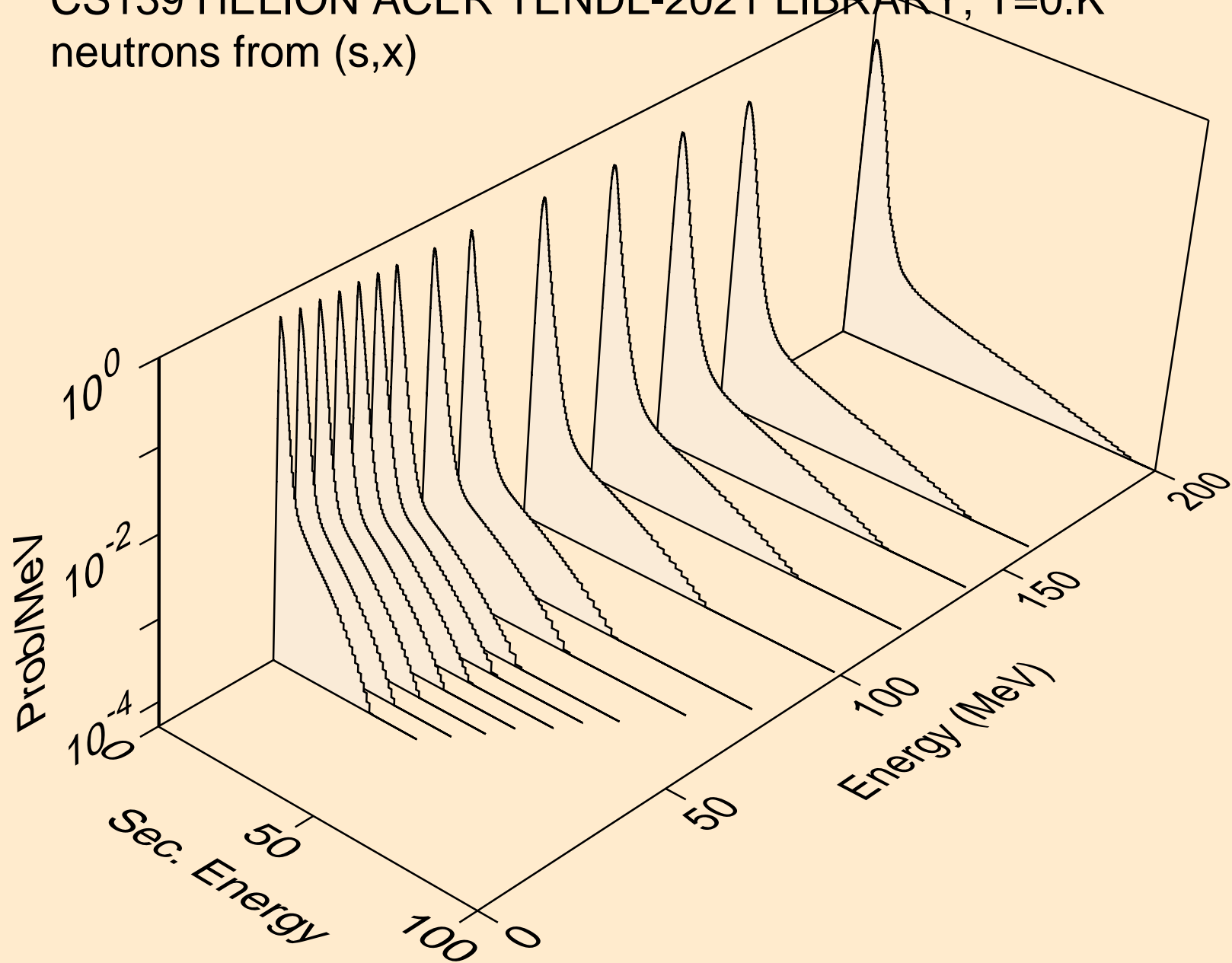
Particle production cross sections



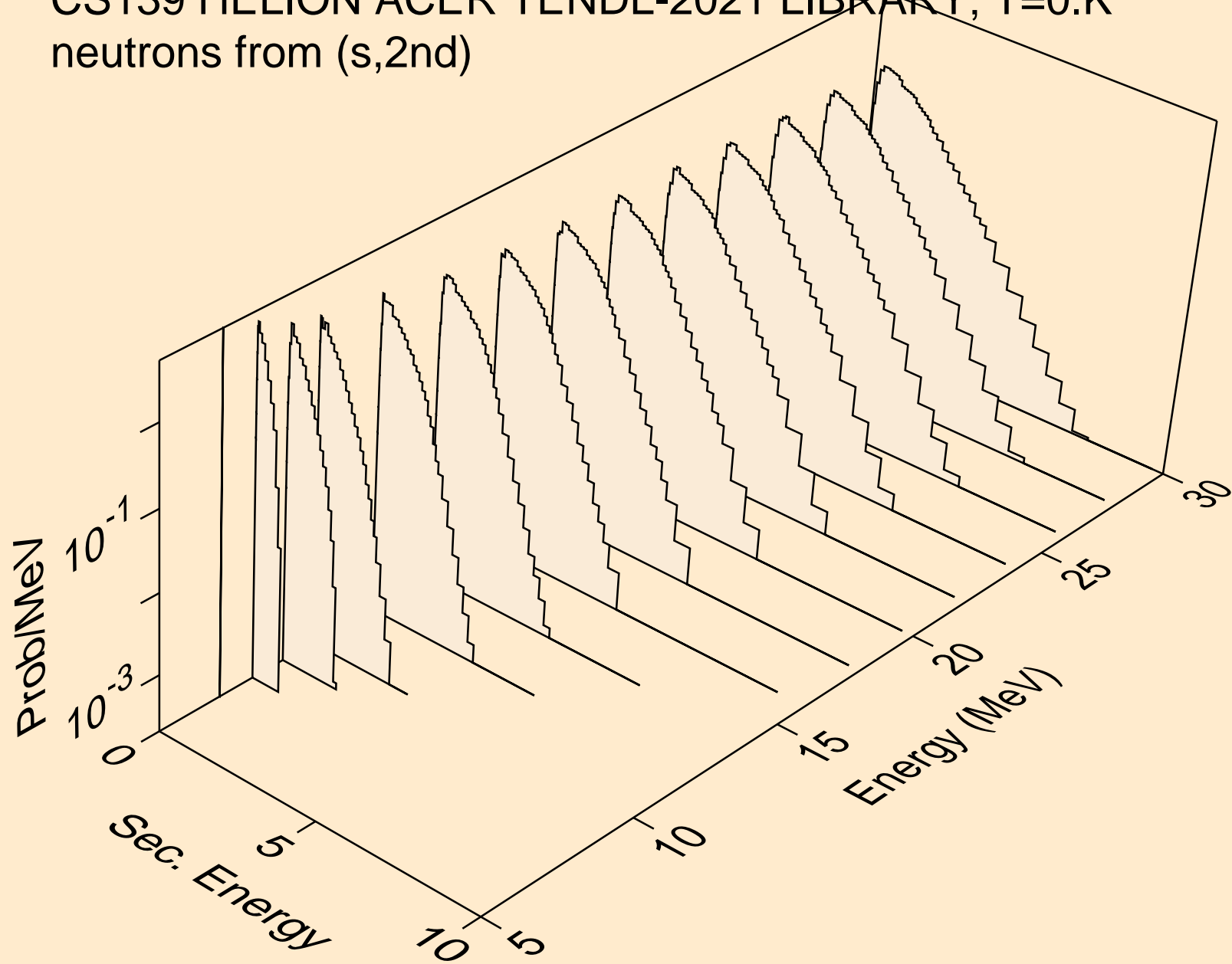
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neutrons from (s,n)



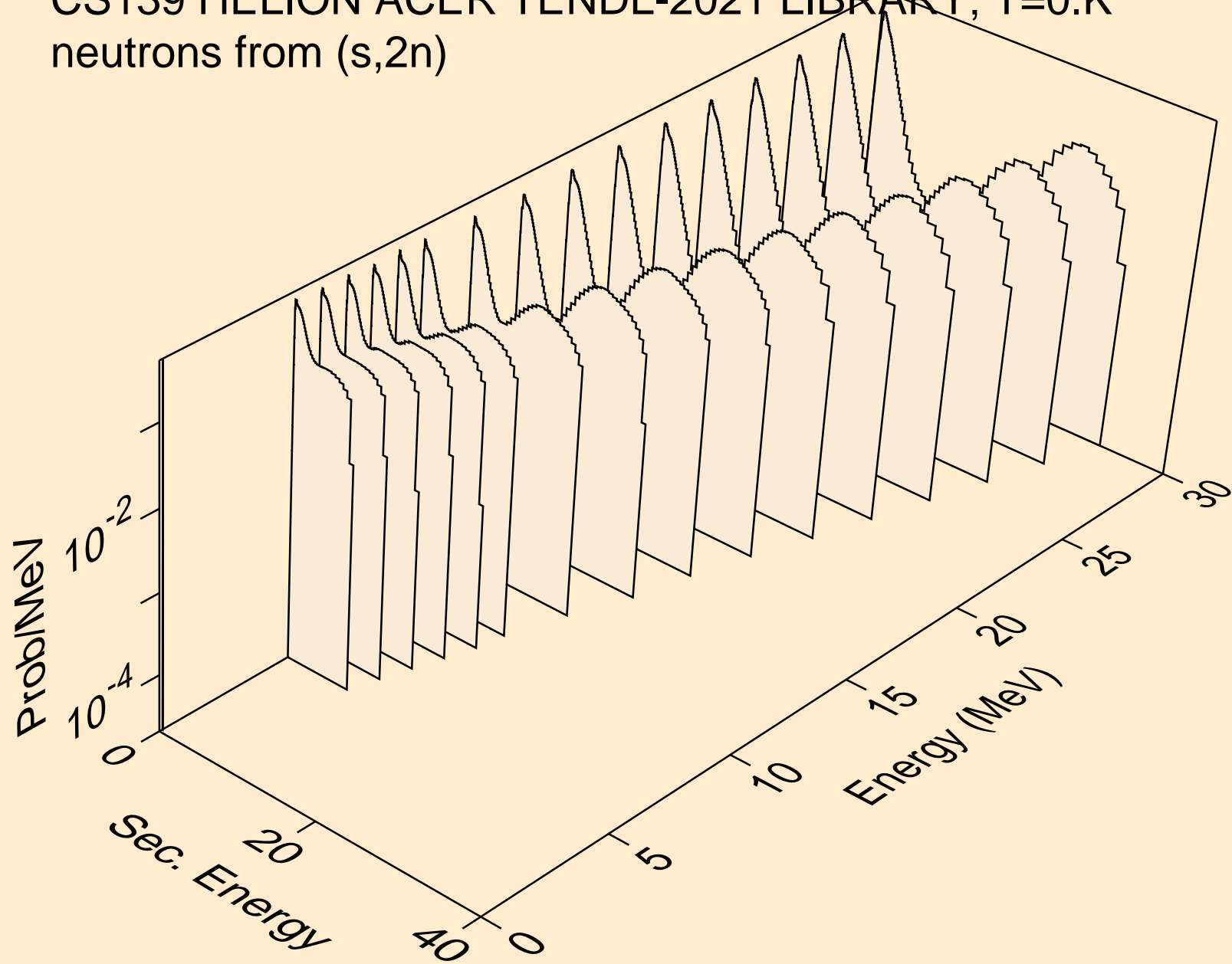
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neutrons from (s,x)



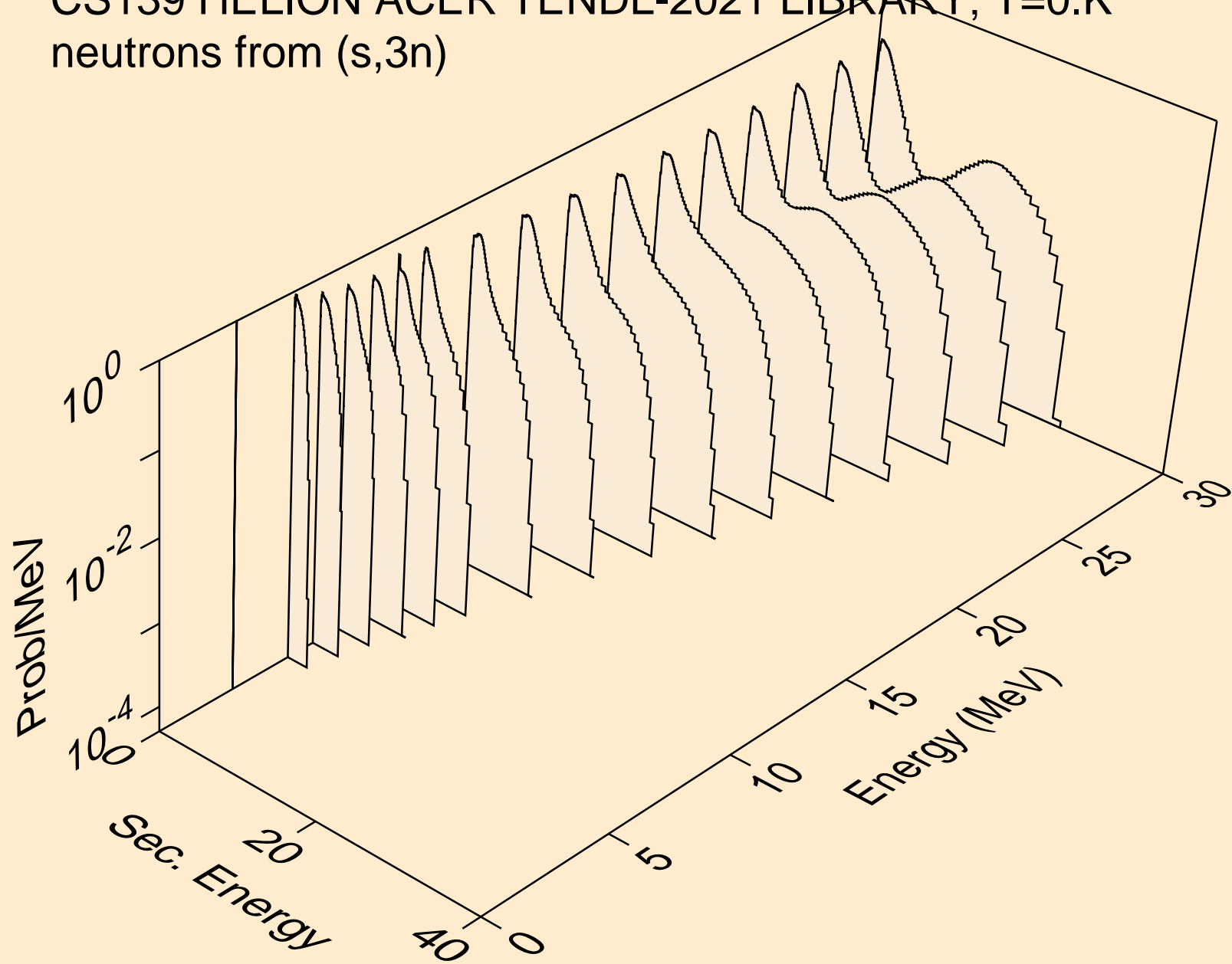
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neutrons from (s,2nd)



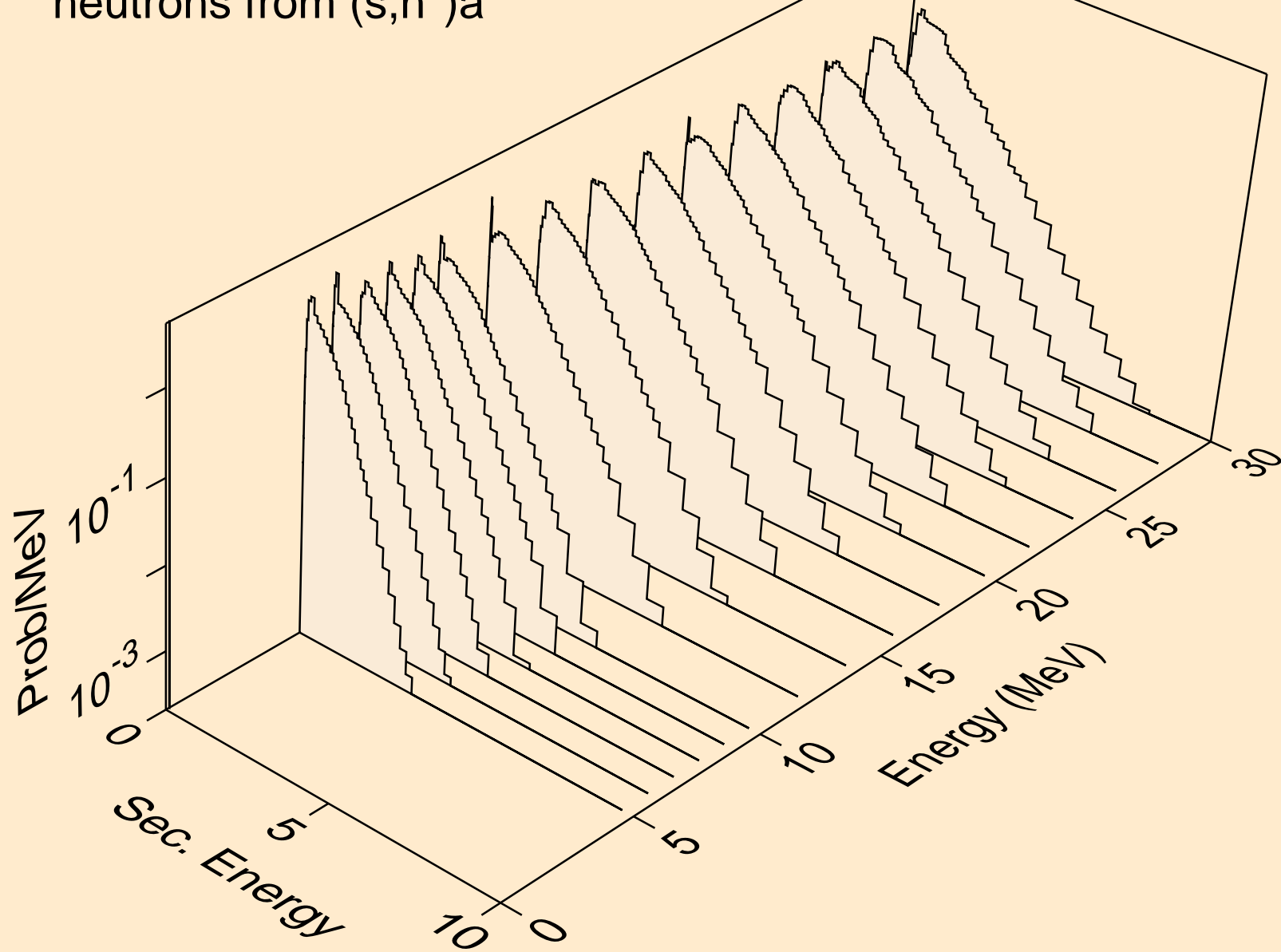
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neutrons from (s,2n)



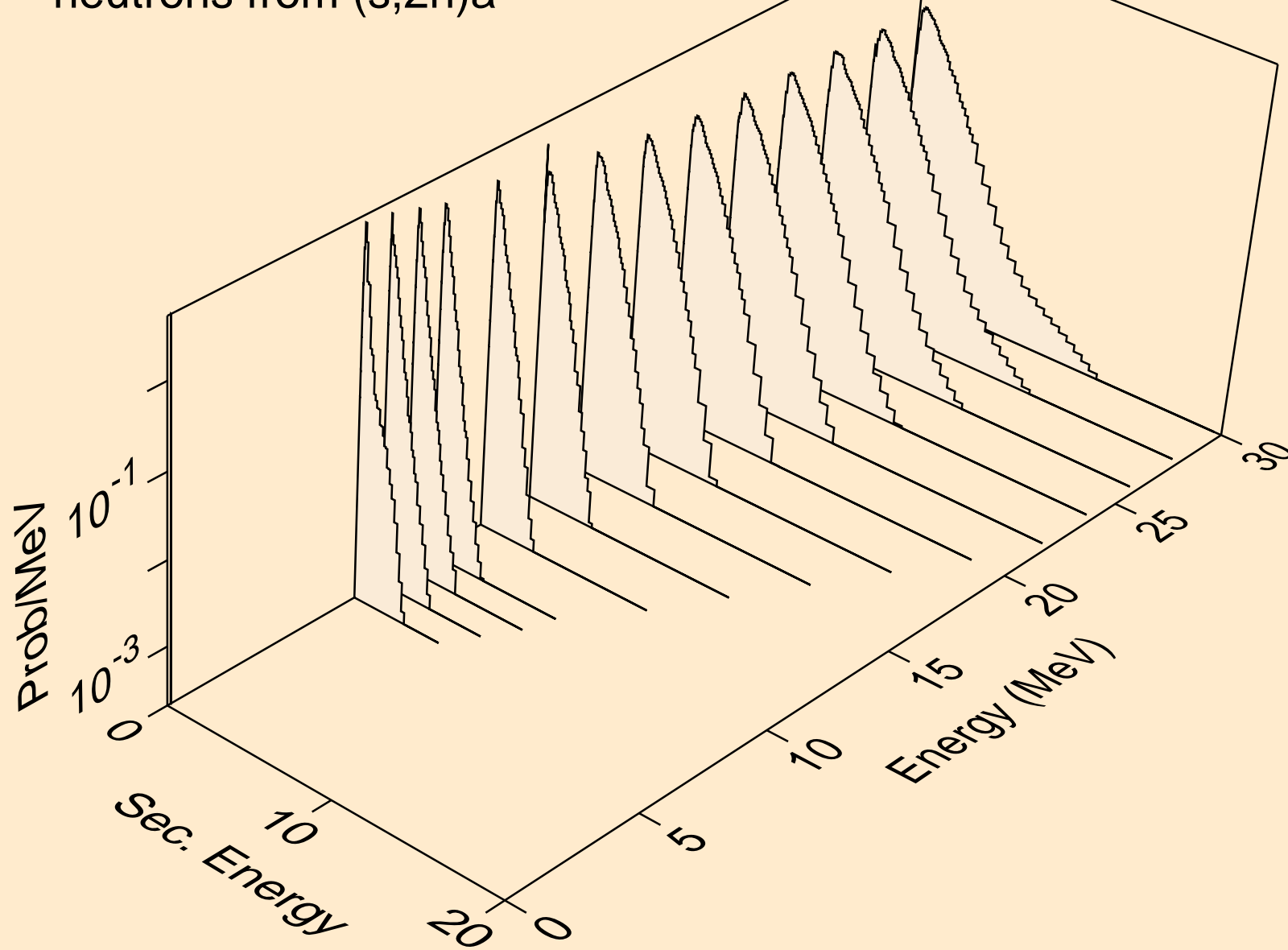
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neutrons from (s,3n)



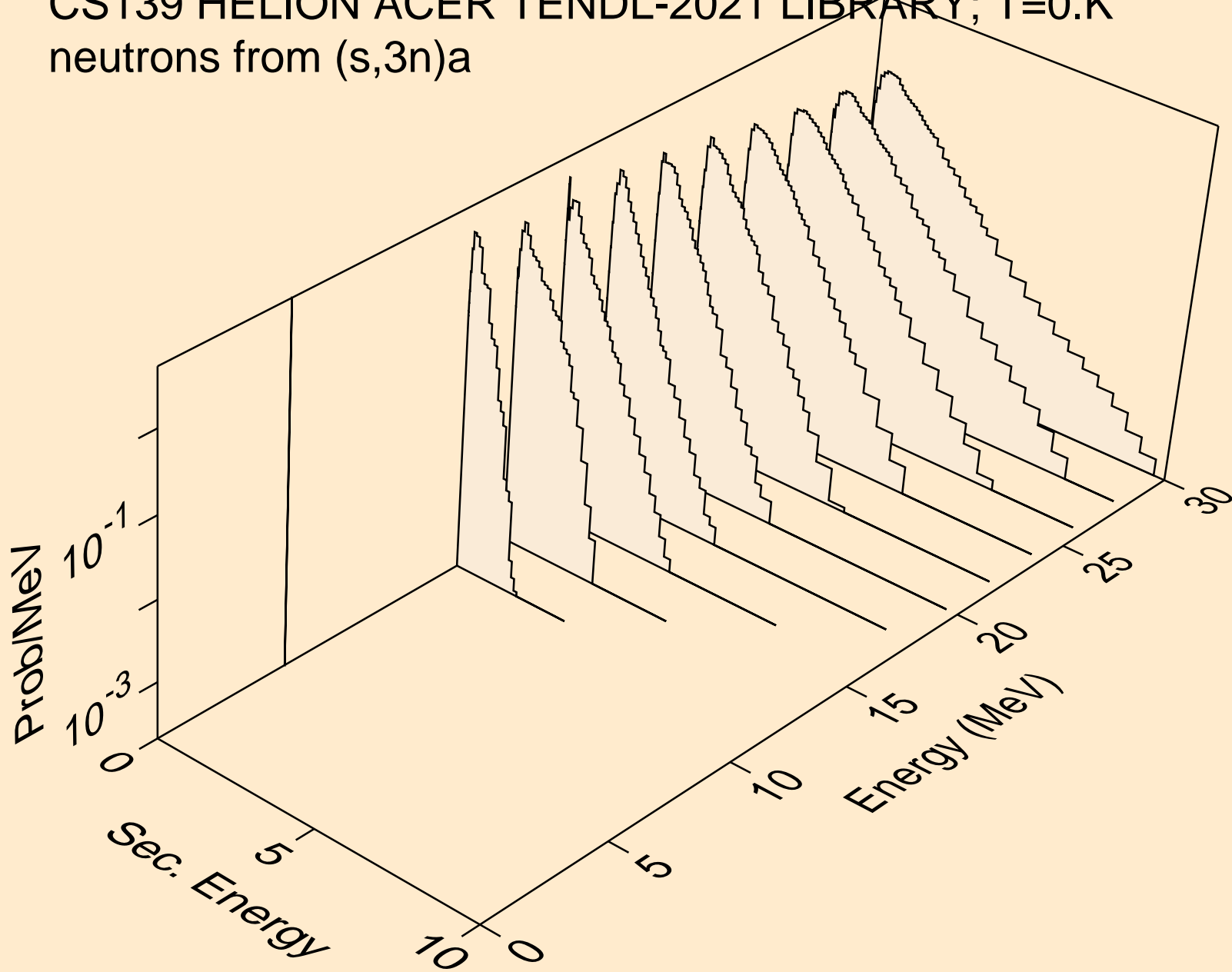
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neutrons from (s,n*)a



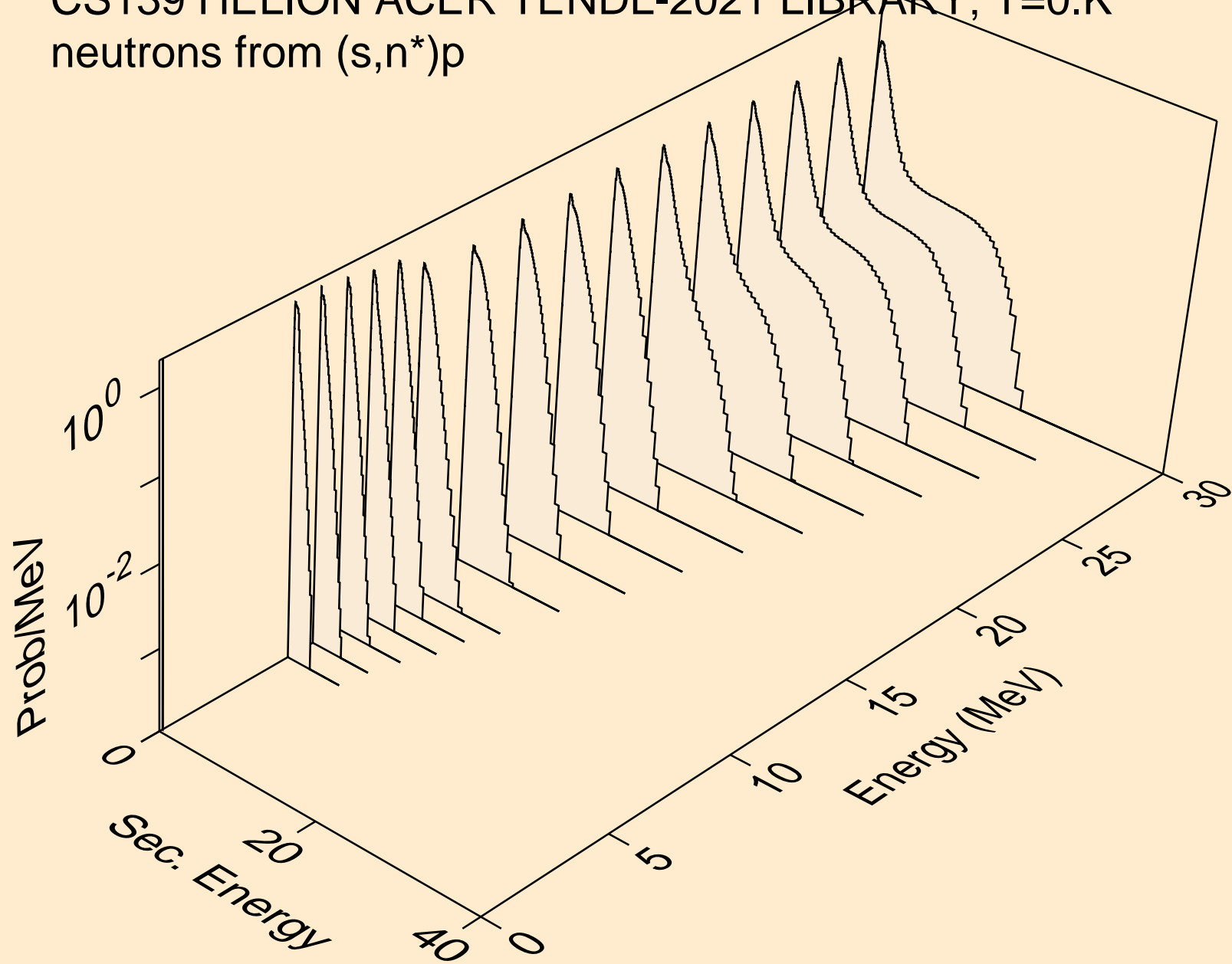
CS139 HELION ACER TENDL-2021 LIBRARY; T=0.K
neutrons from (s,2n)a



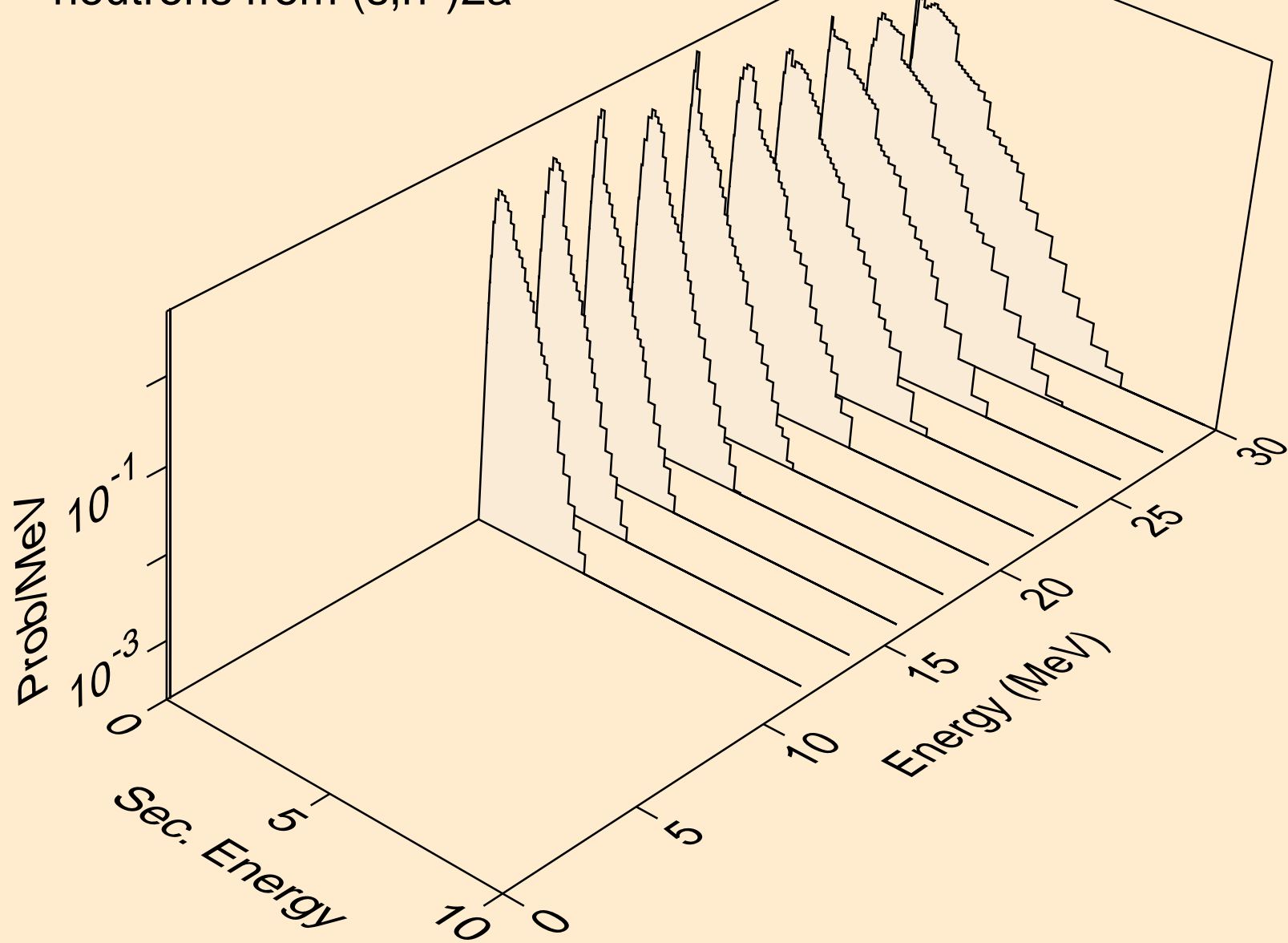
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neutrons from (s,3n)a



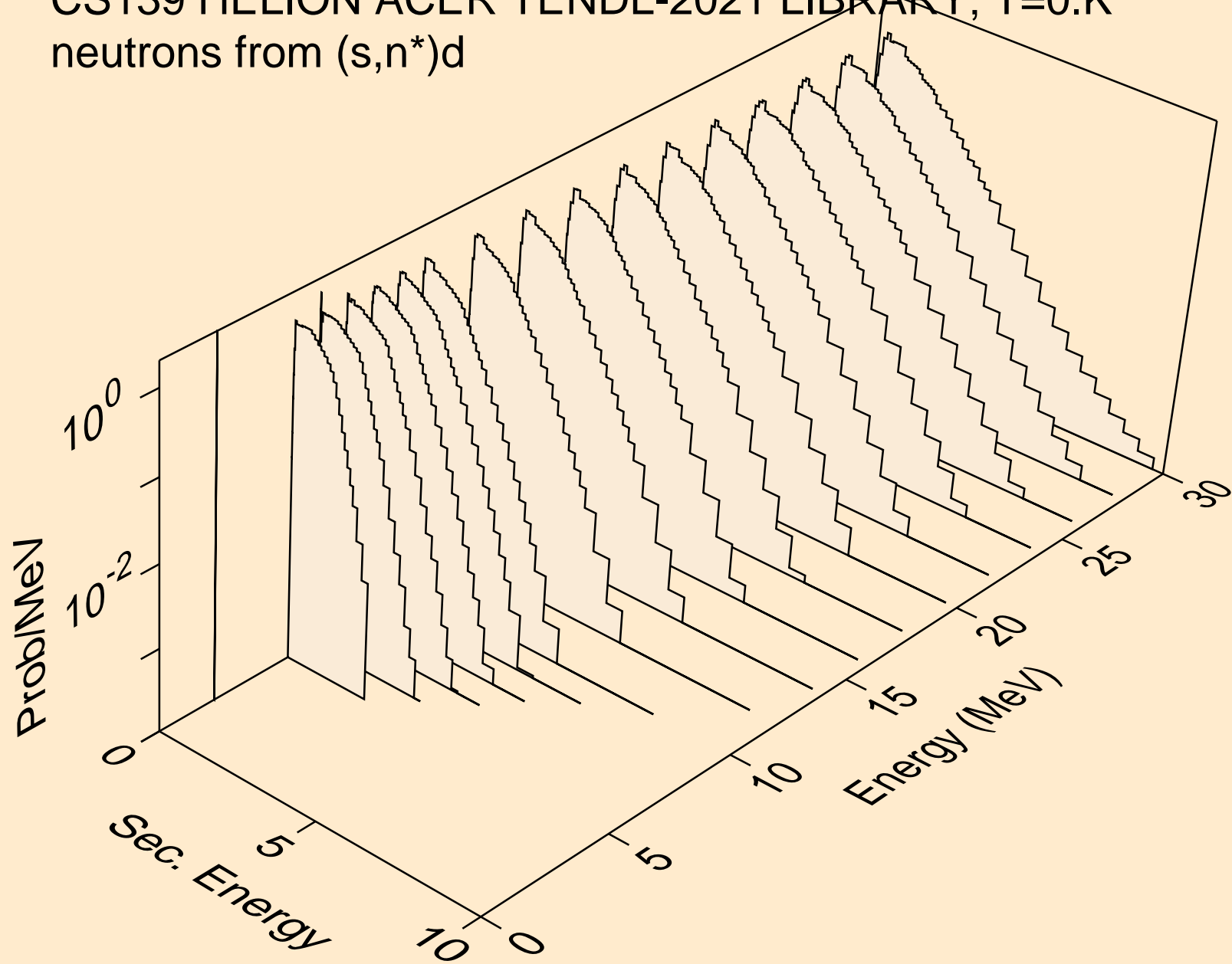
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neutrons from (s,n*)p



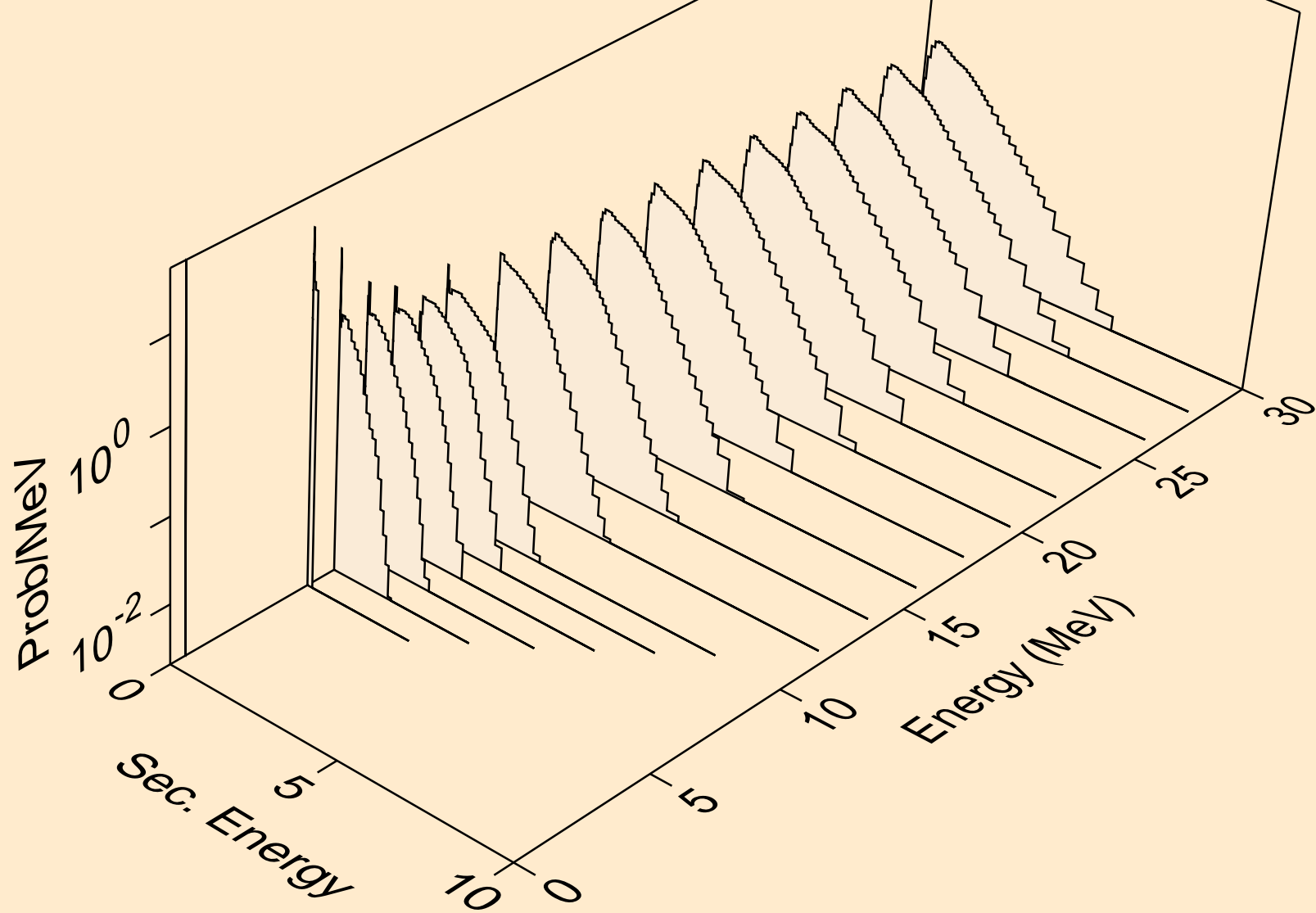
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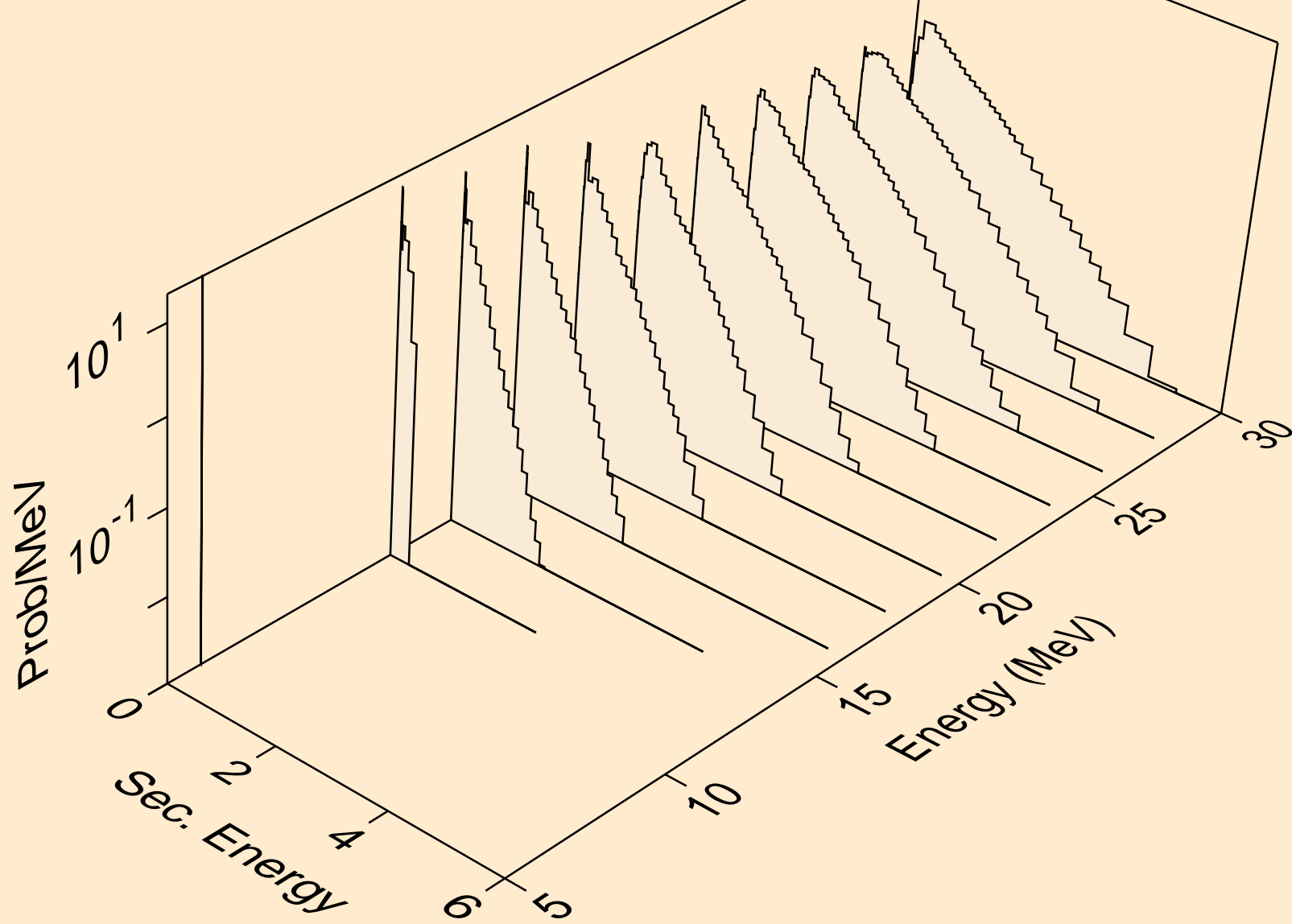
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neutrons from (s,n*)d



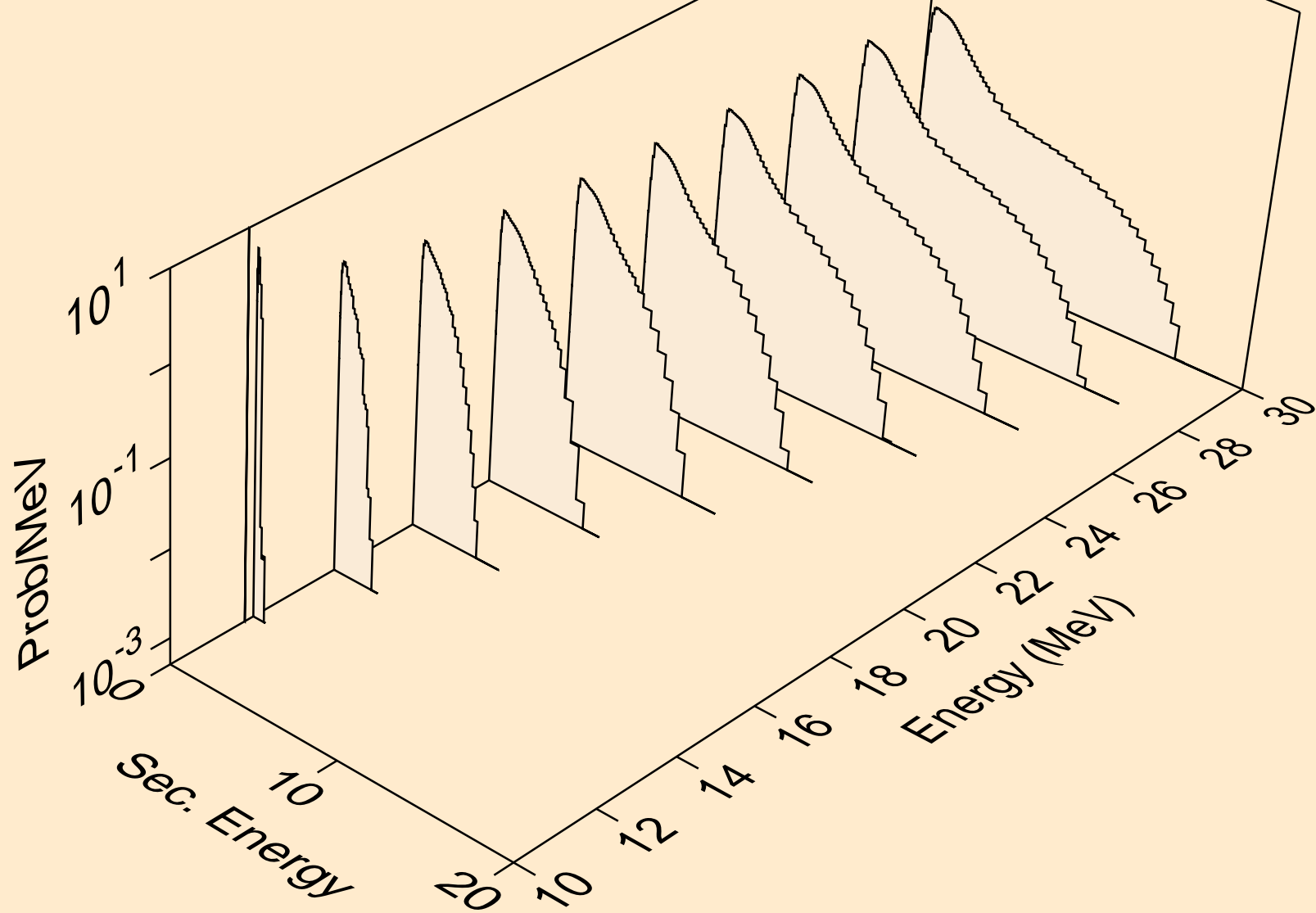
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neutrons from (s,n*)t



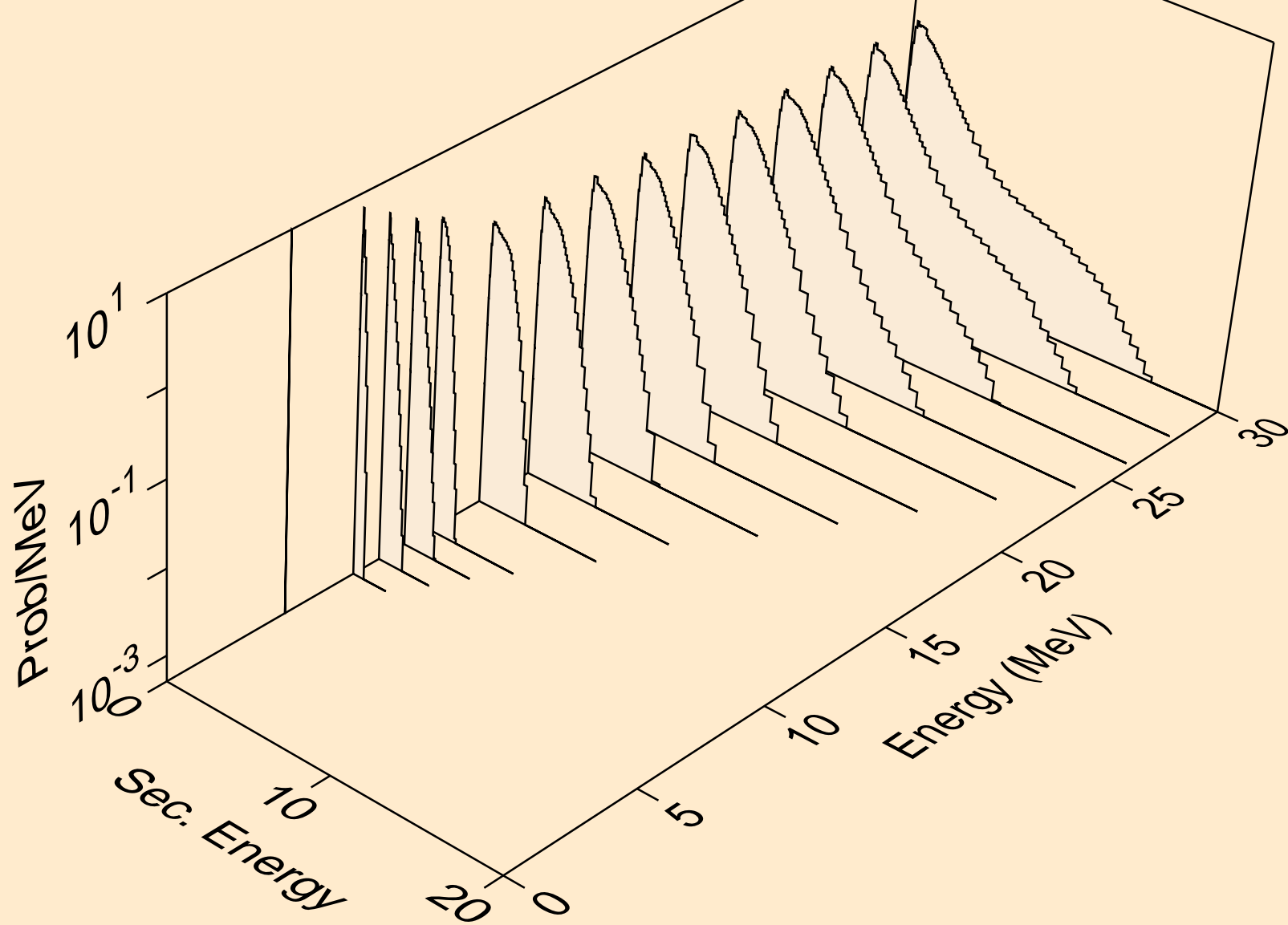
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neutrons from (s,n*)he3



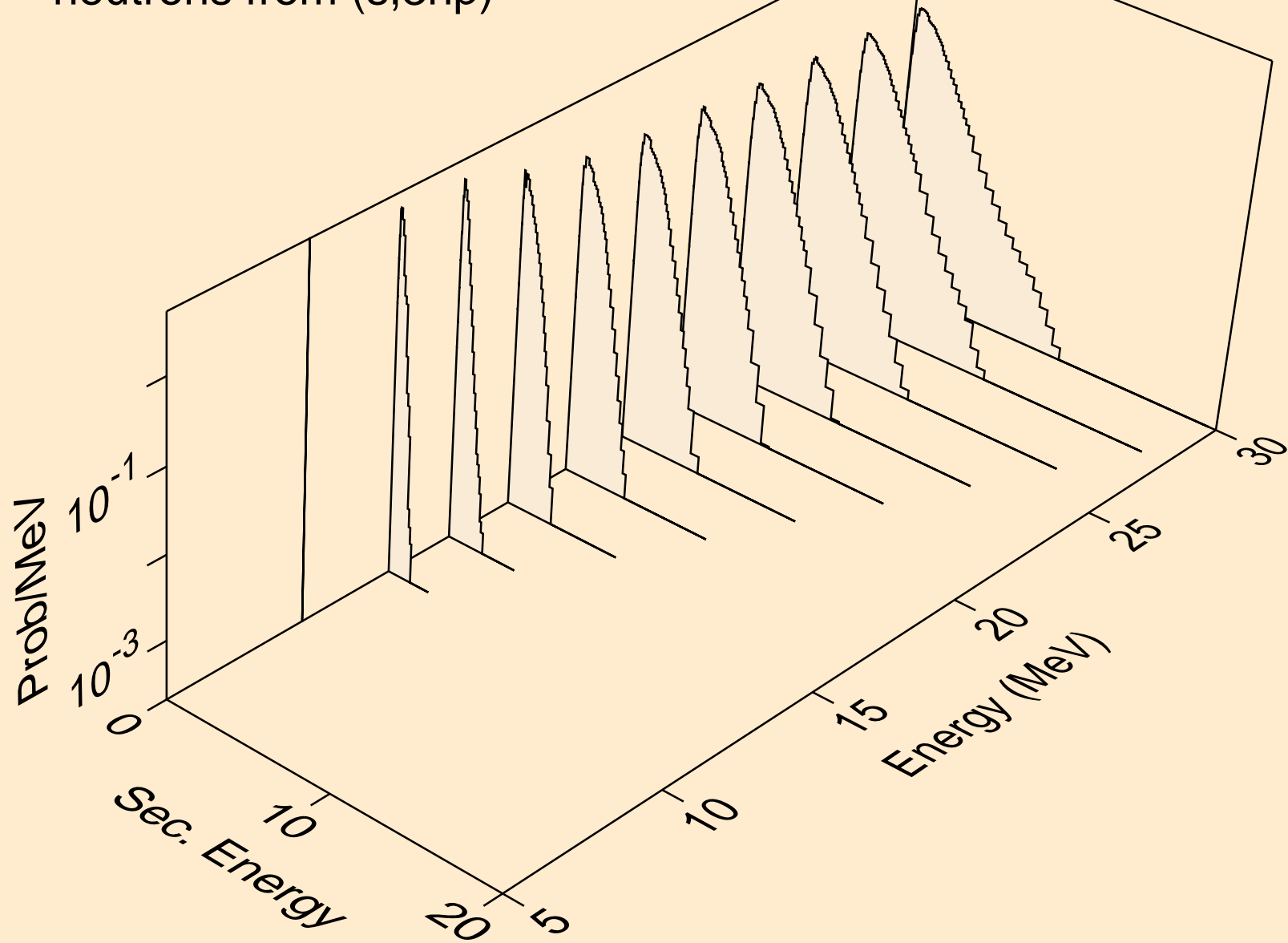
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neutrons from (s,4n)



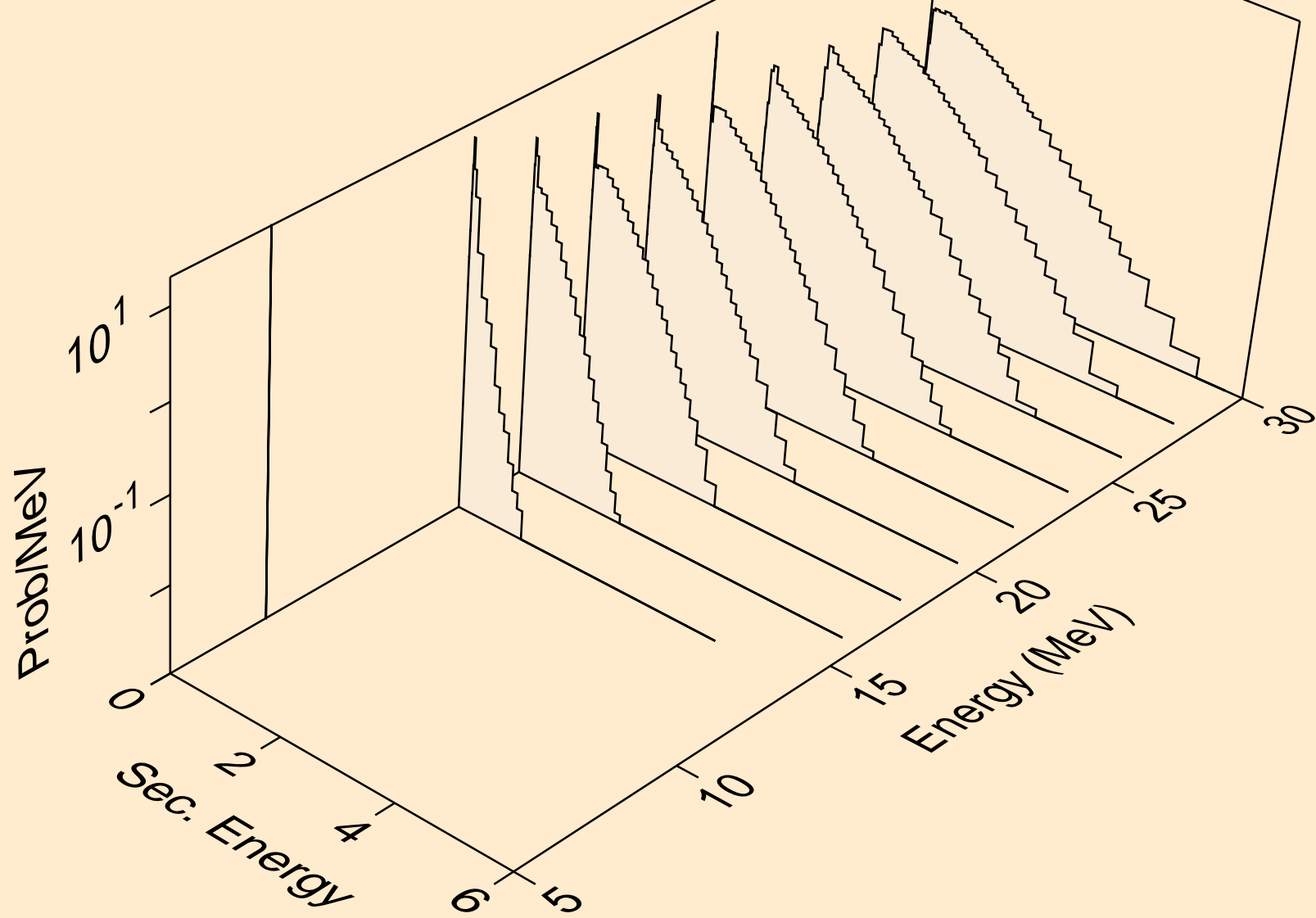
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neutrons from (s,2np)



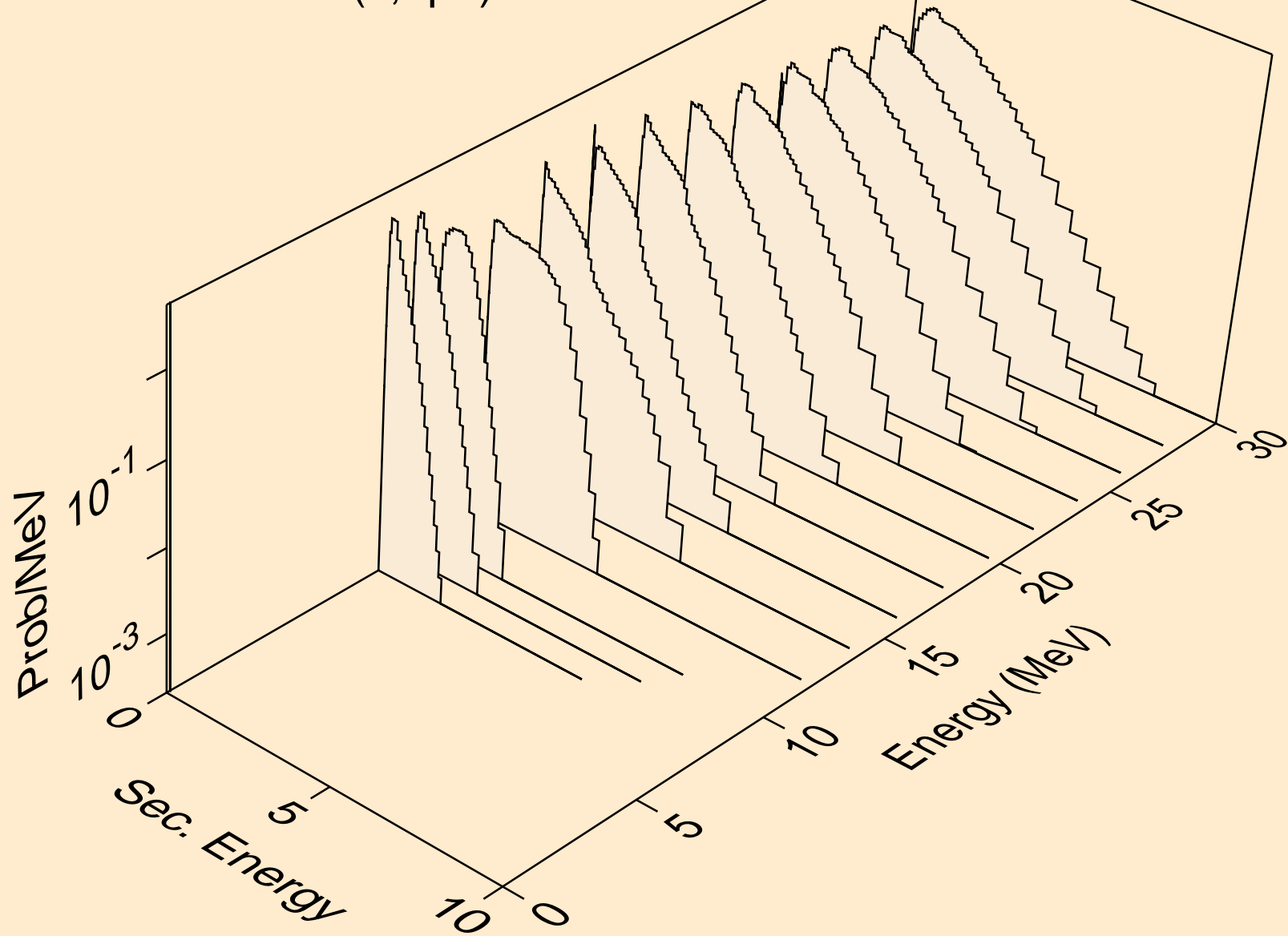
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neutrons from (s,3np)



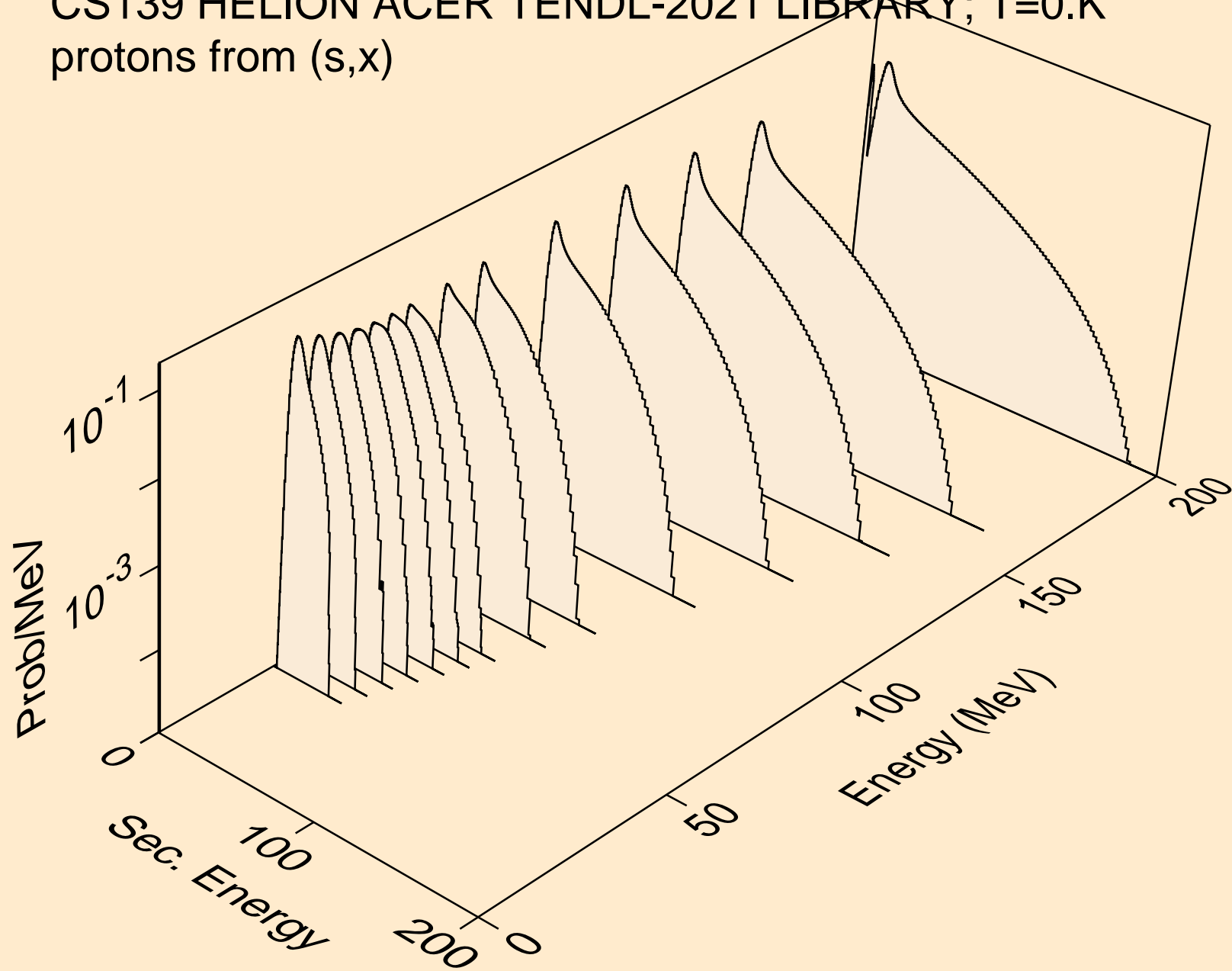
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neutrons from (s,2np)



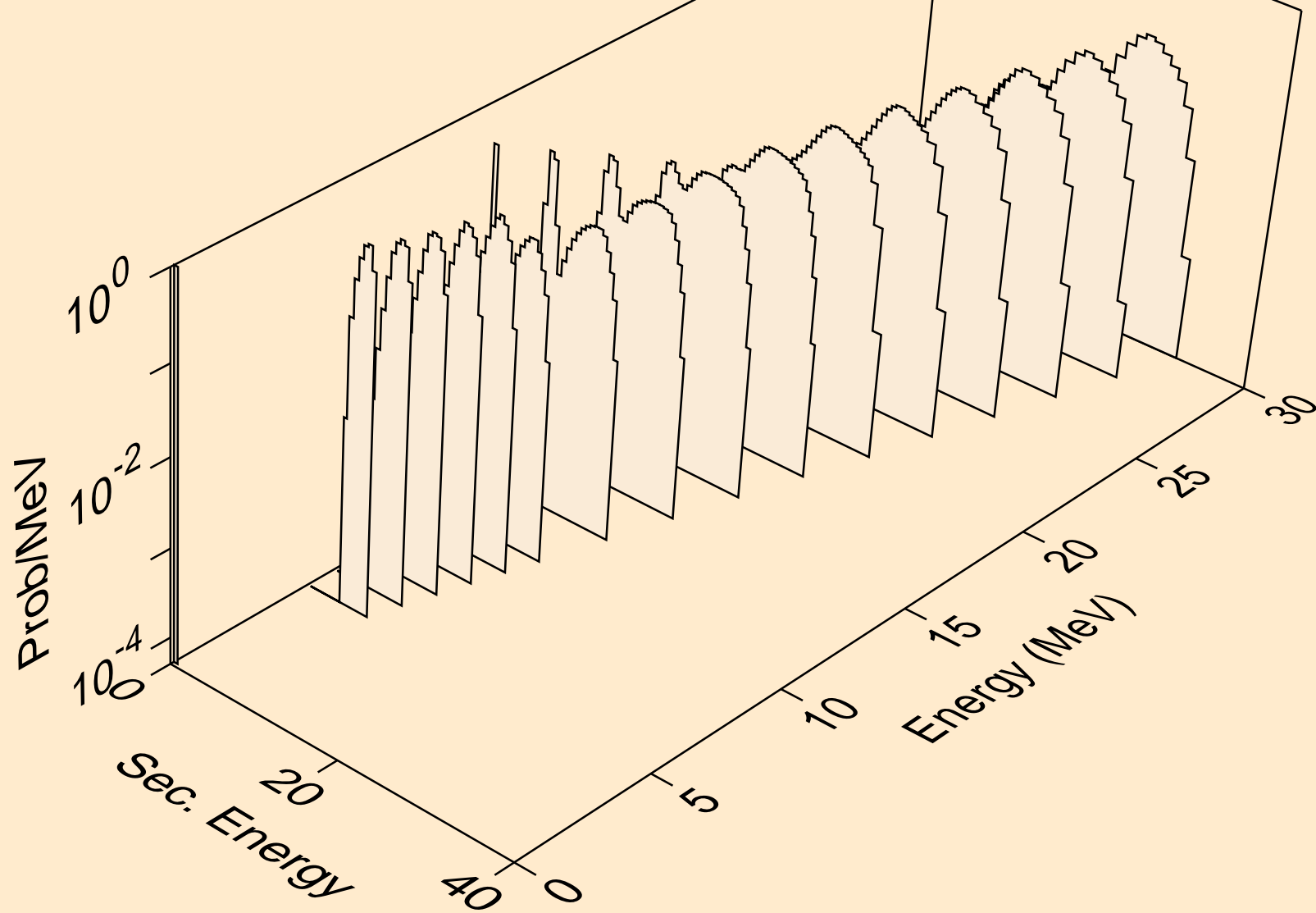
CS139 HELION ACER TENDL-2021 LIBRARY; T=0.K
neutrons from (s,npa)



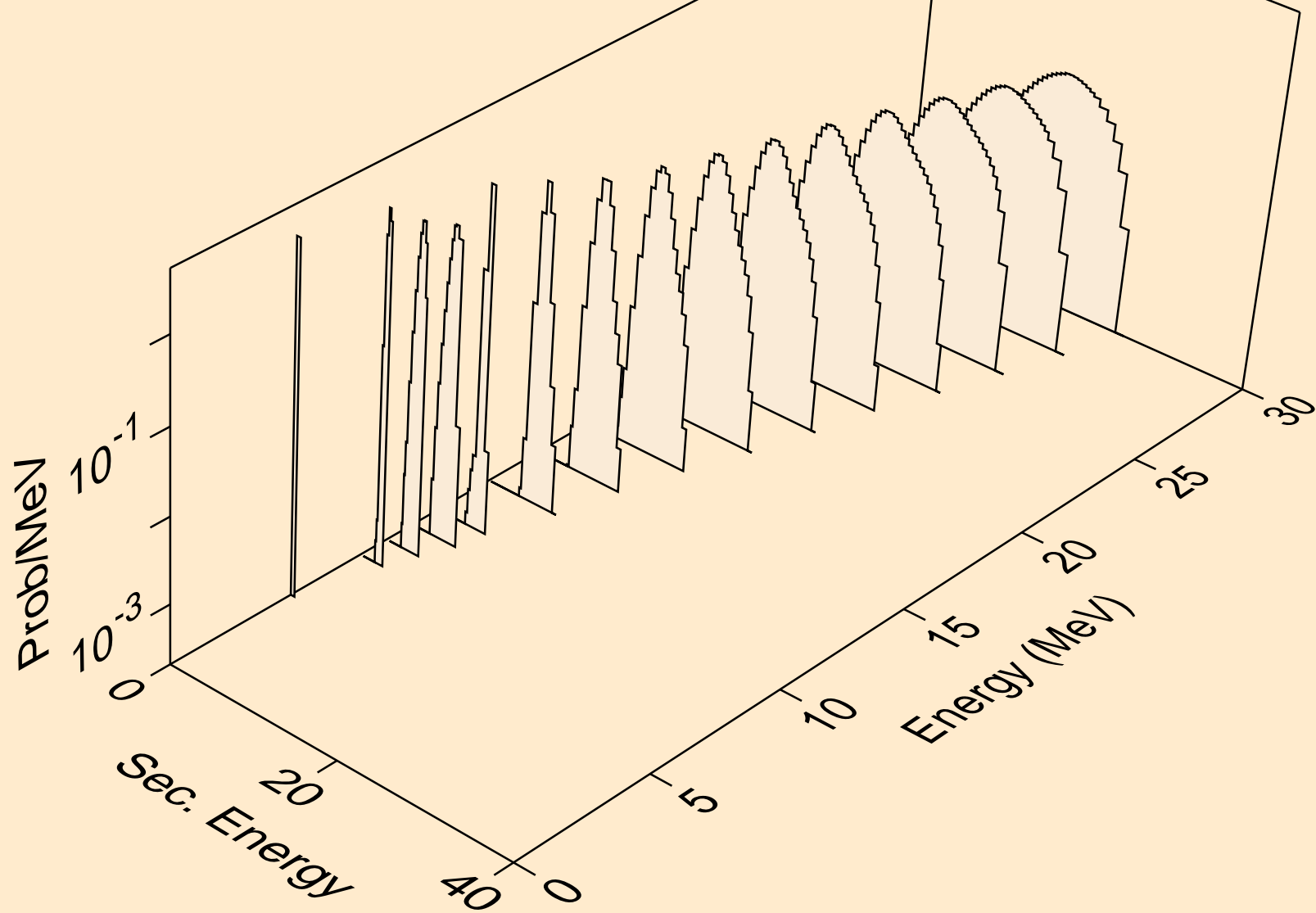
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protons from (s,x)



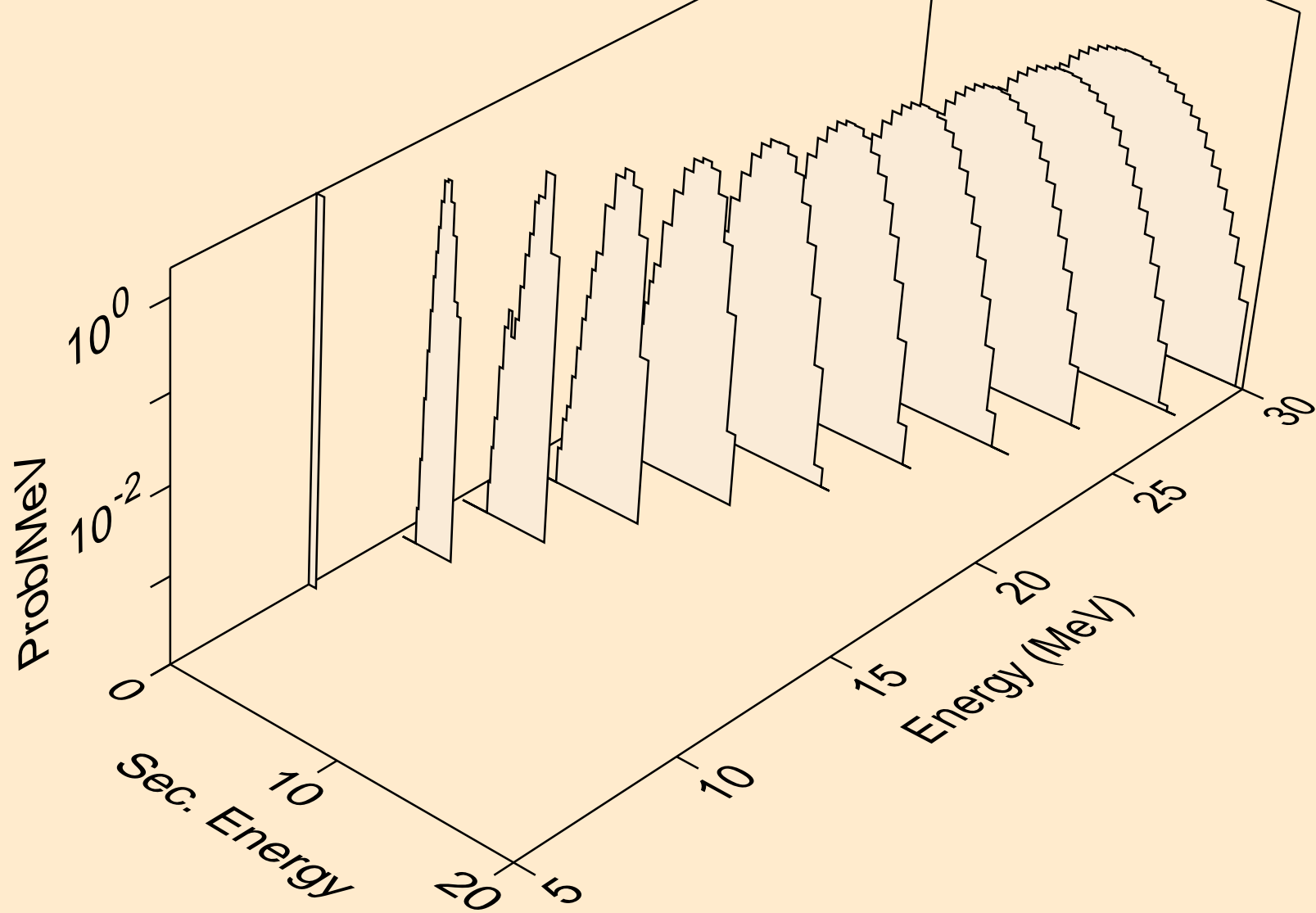
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protons from (s,n*)p



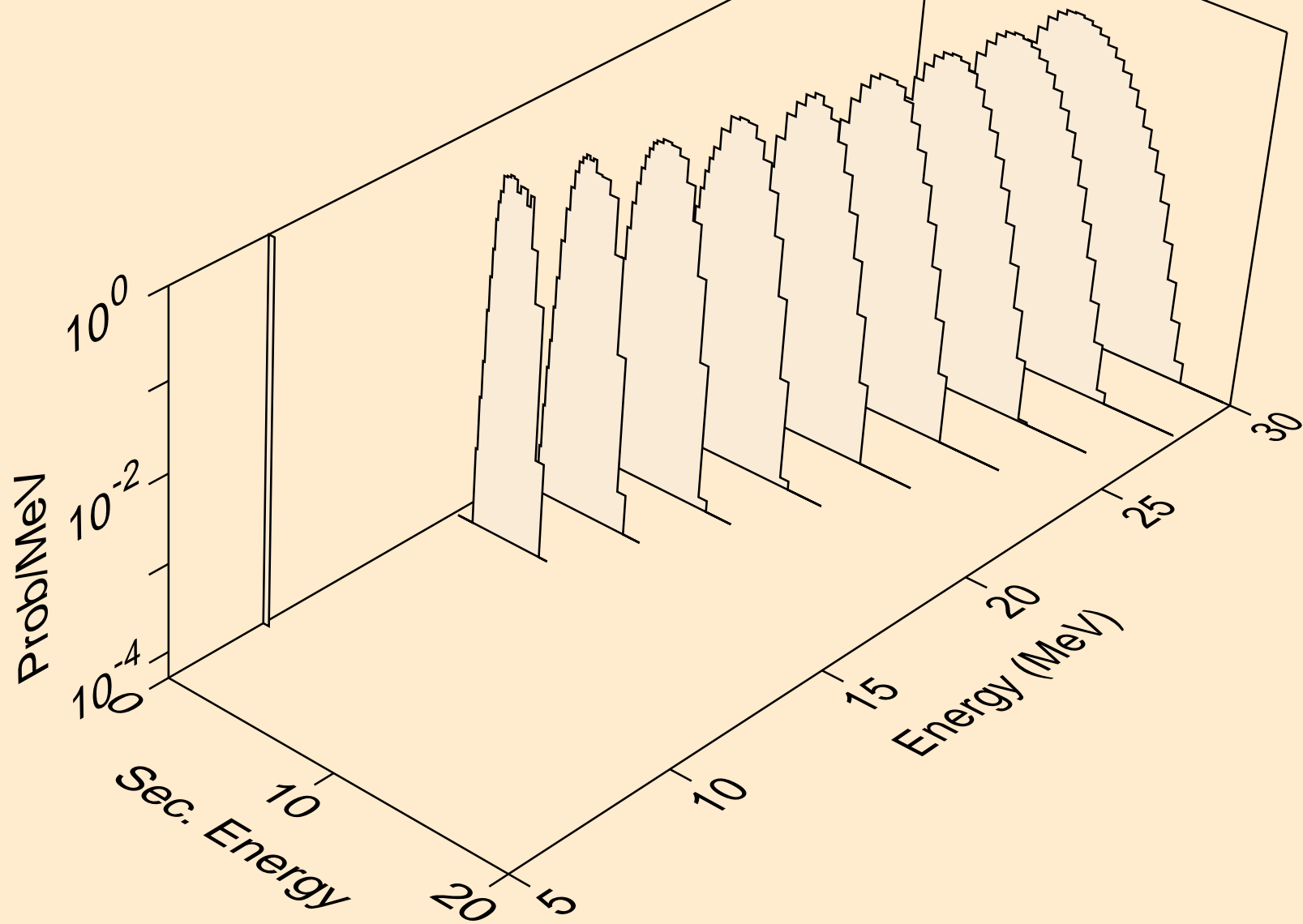
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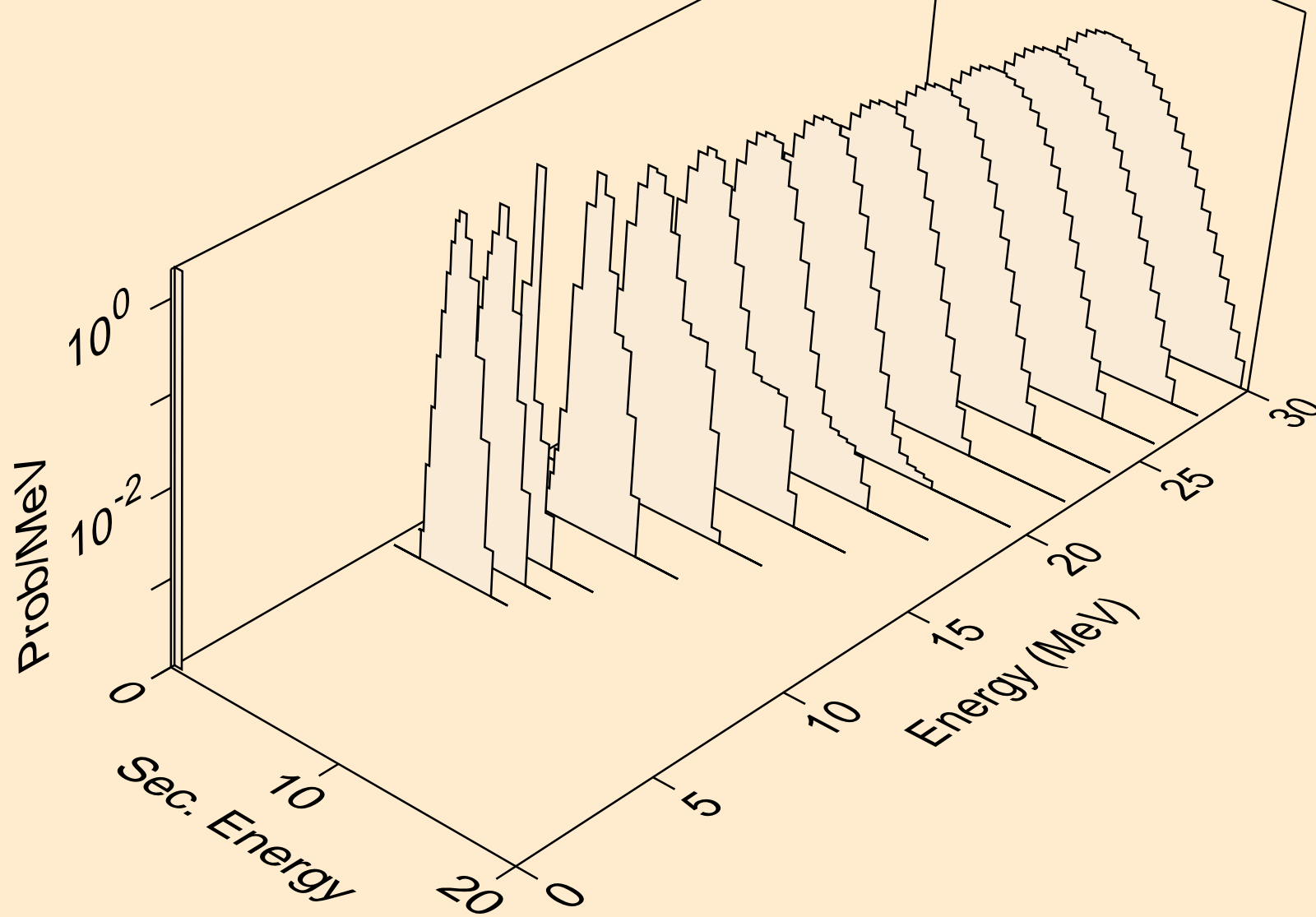
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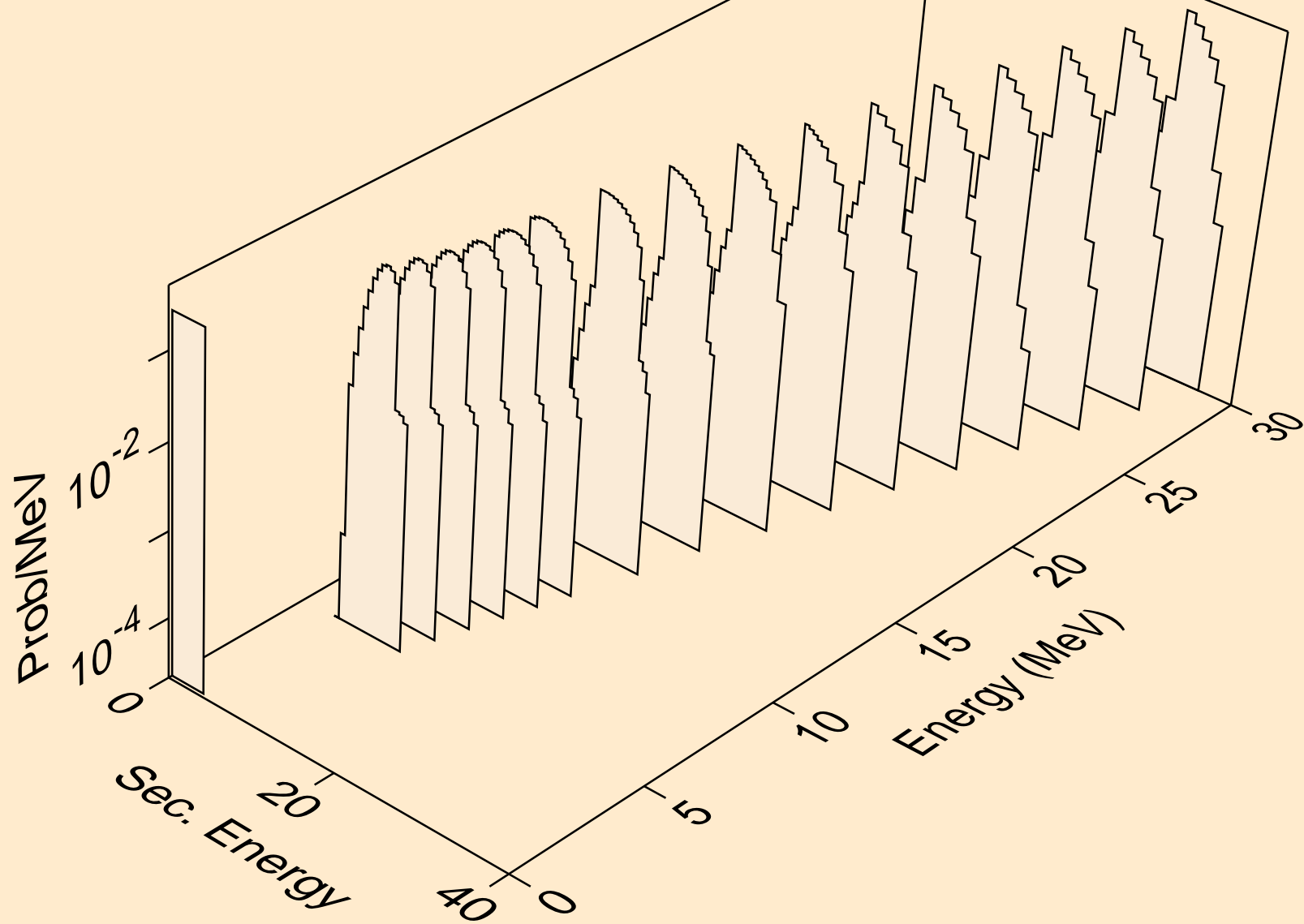
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protons from (s,2np)



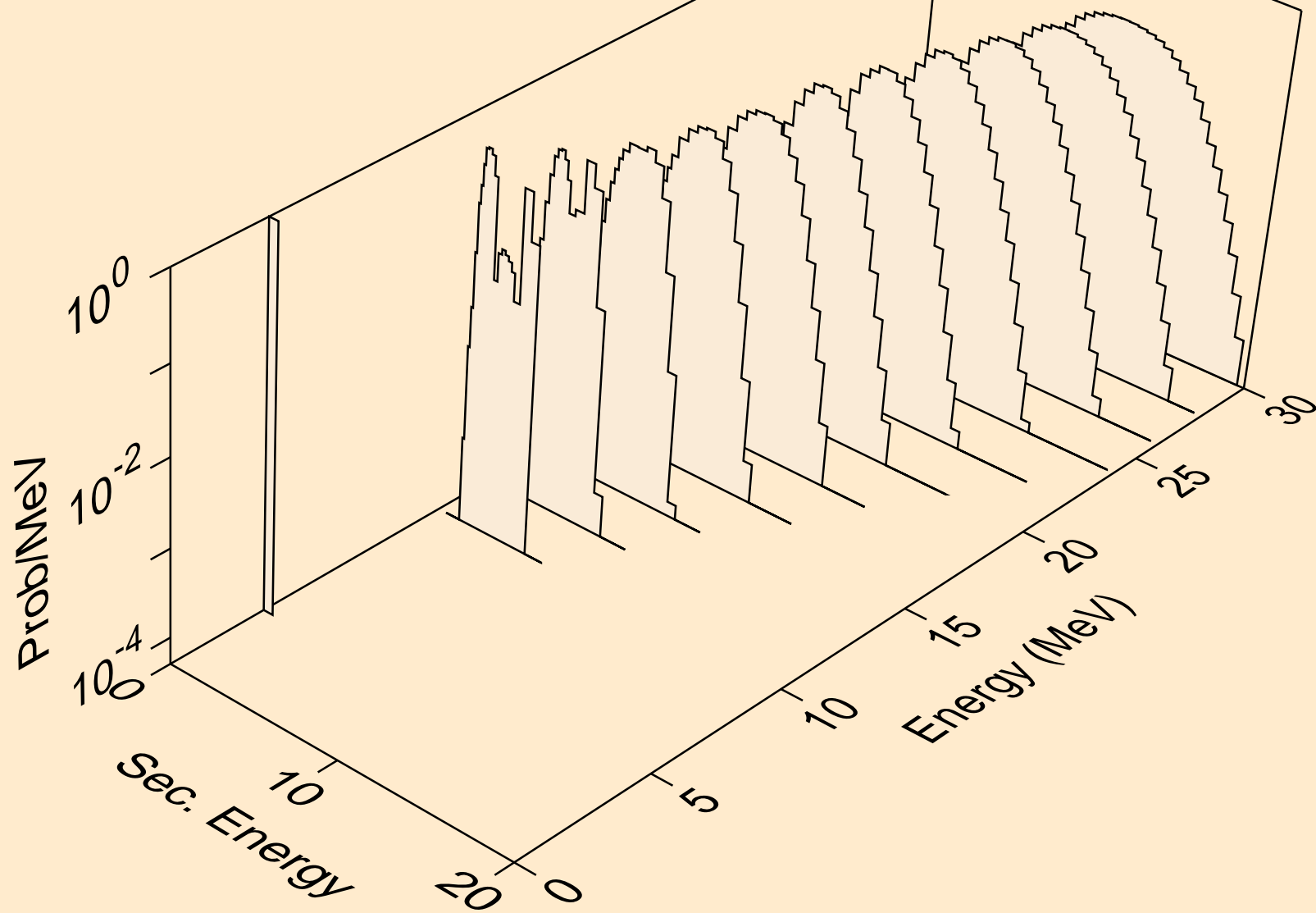
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protons from (s,npa)



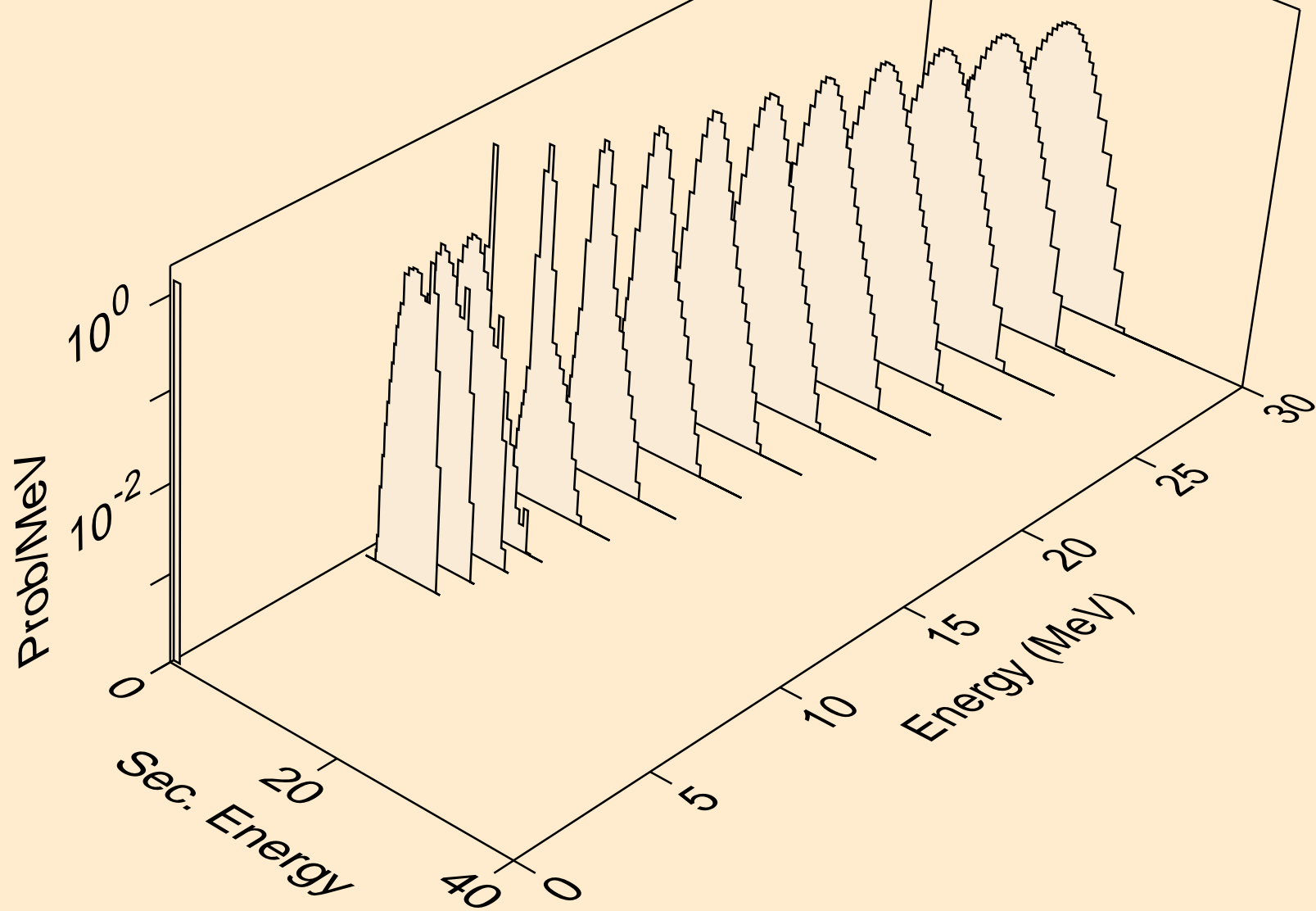
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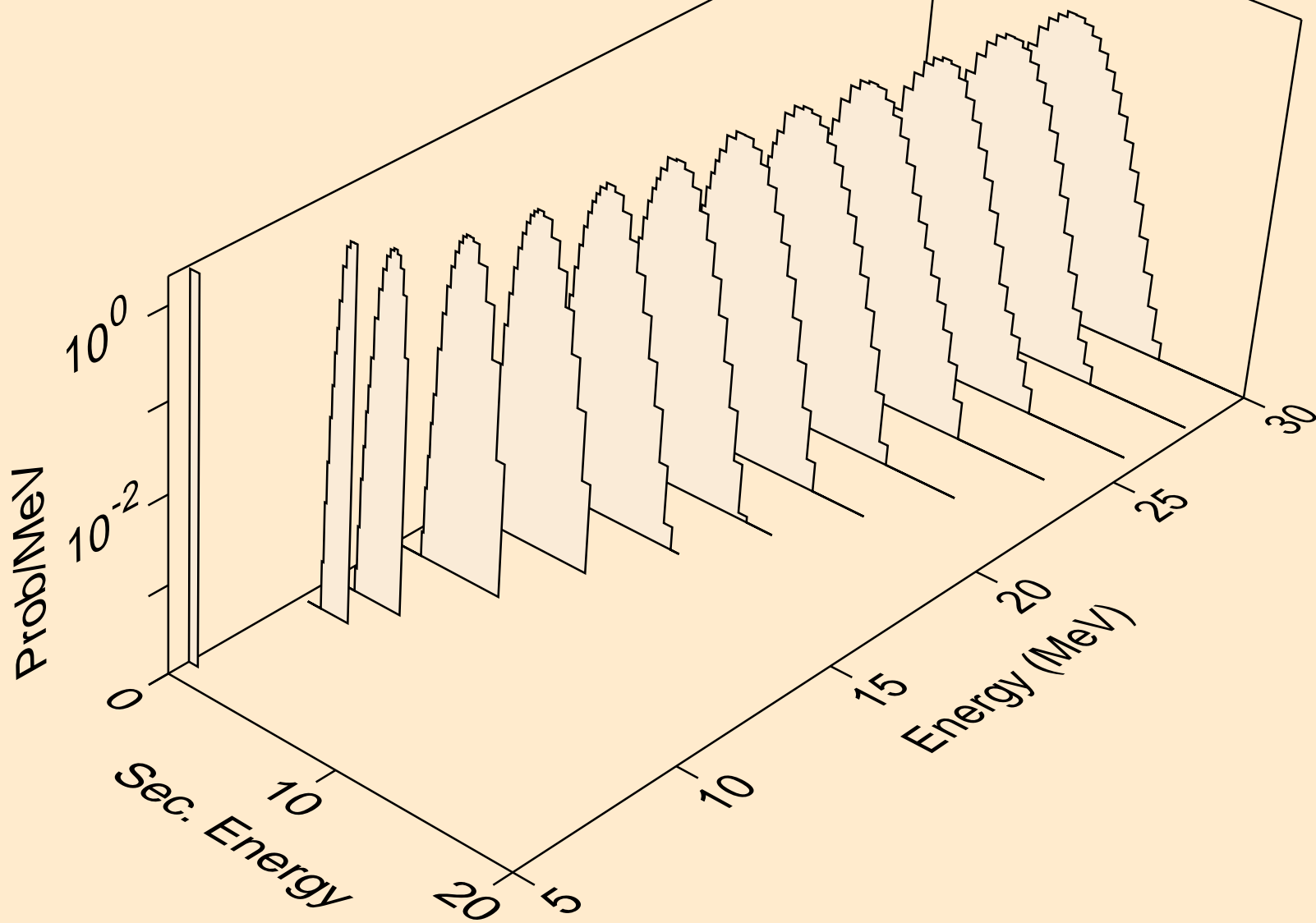
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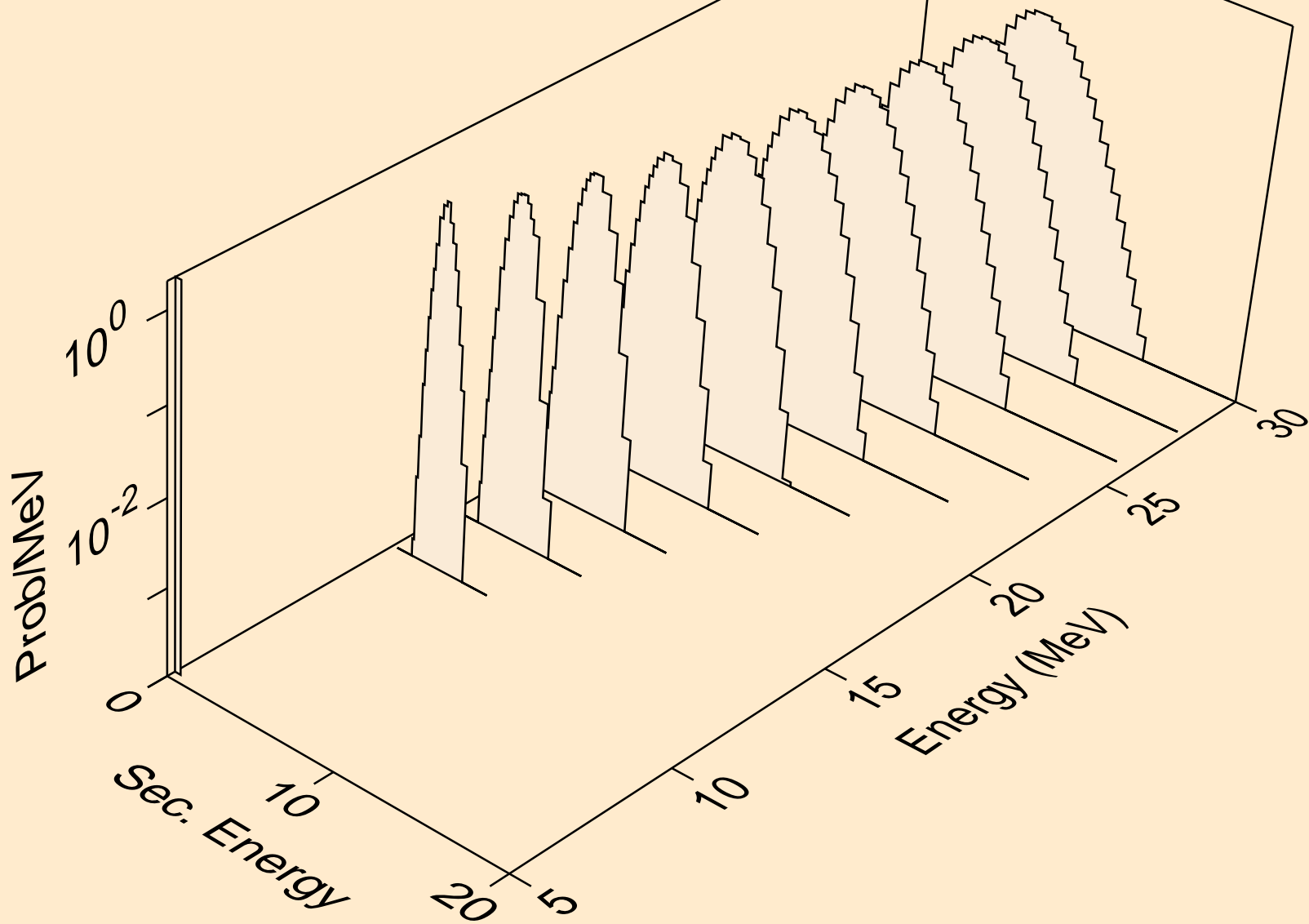
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protons from (s,pa)



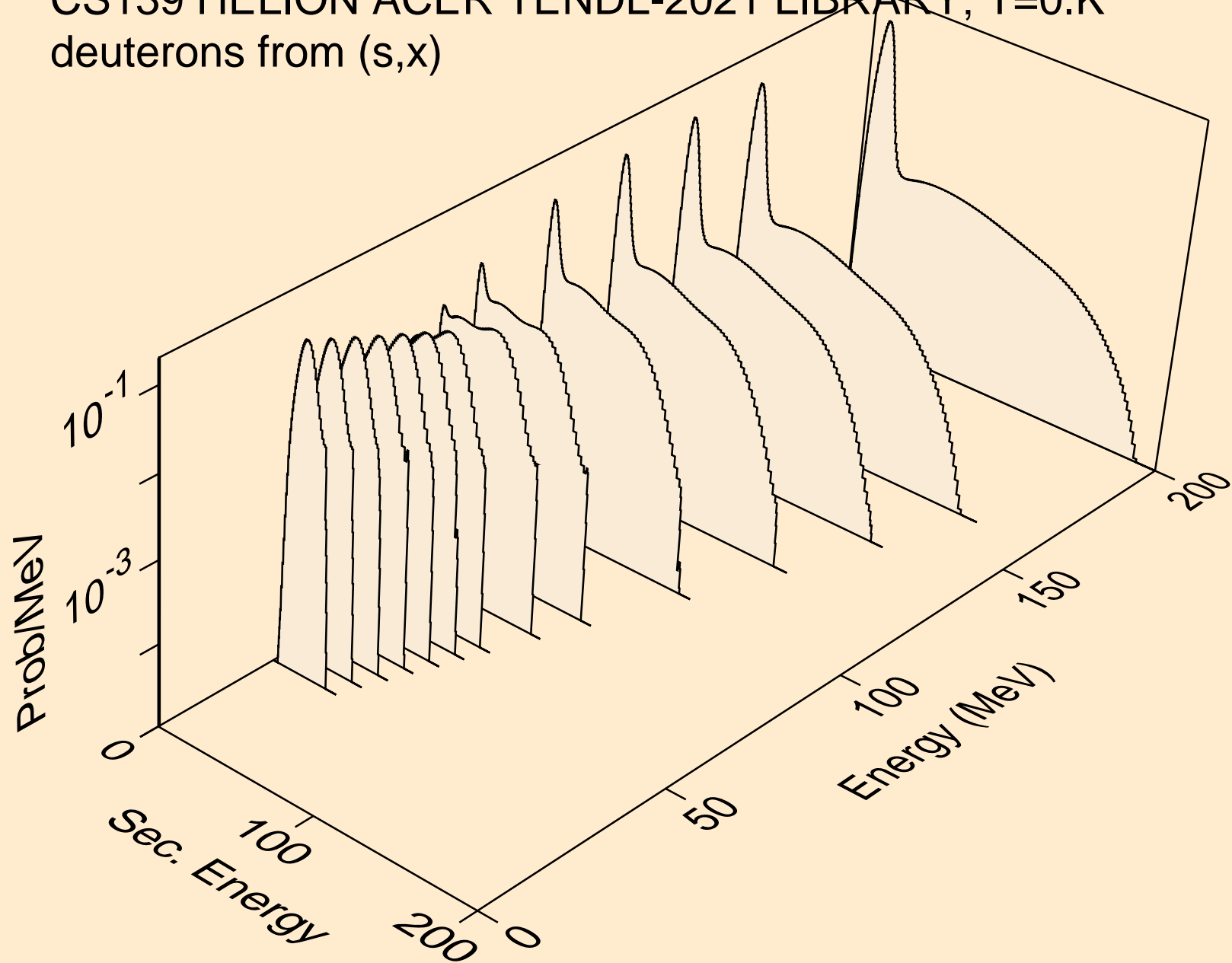
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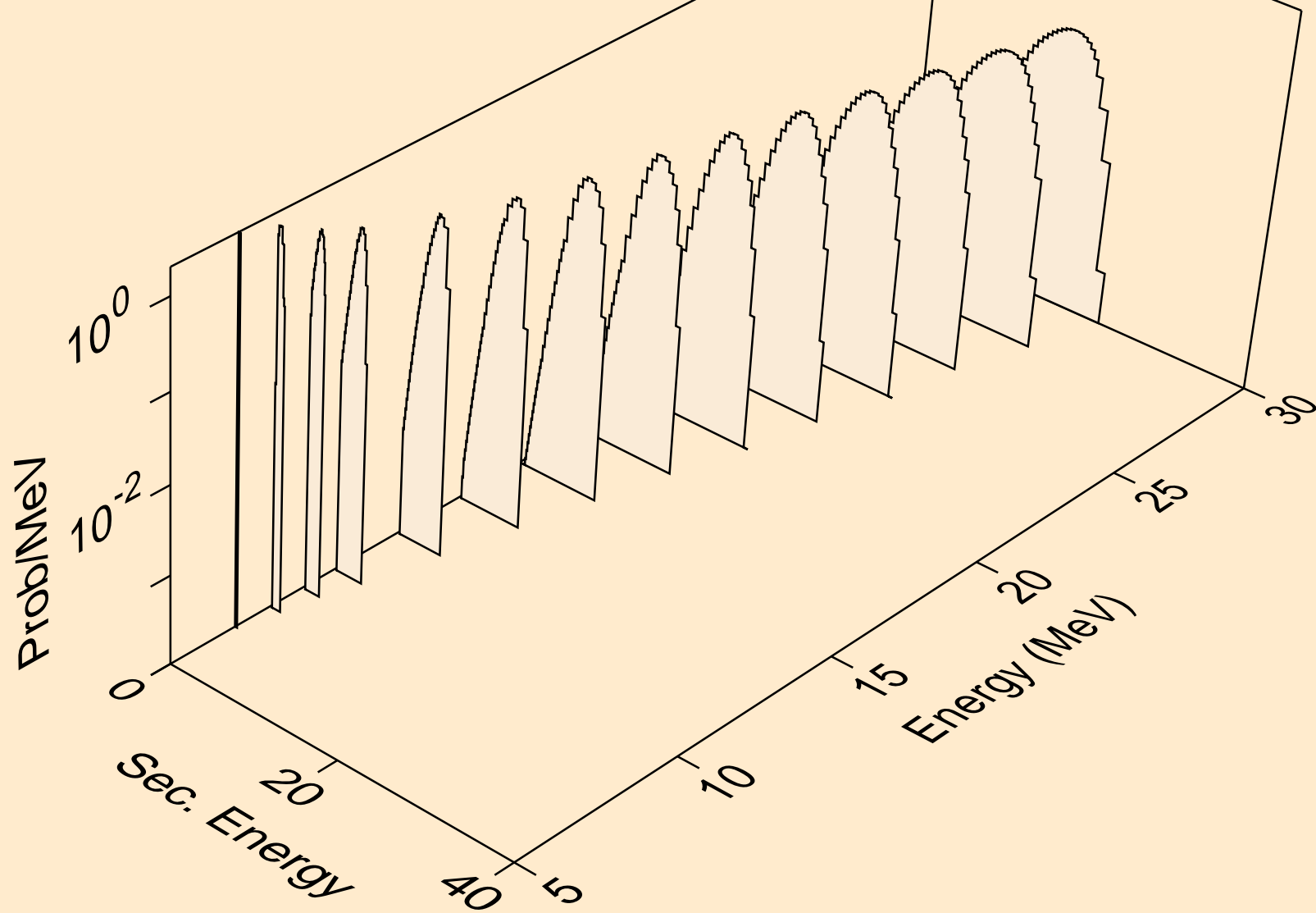
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protons from (s,pt)



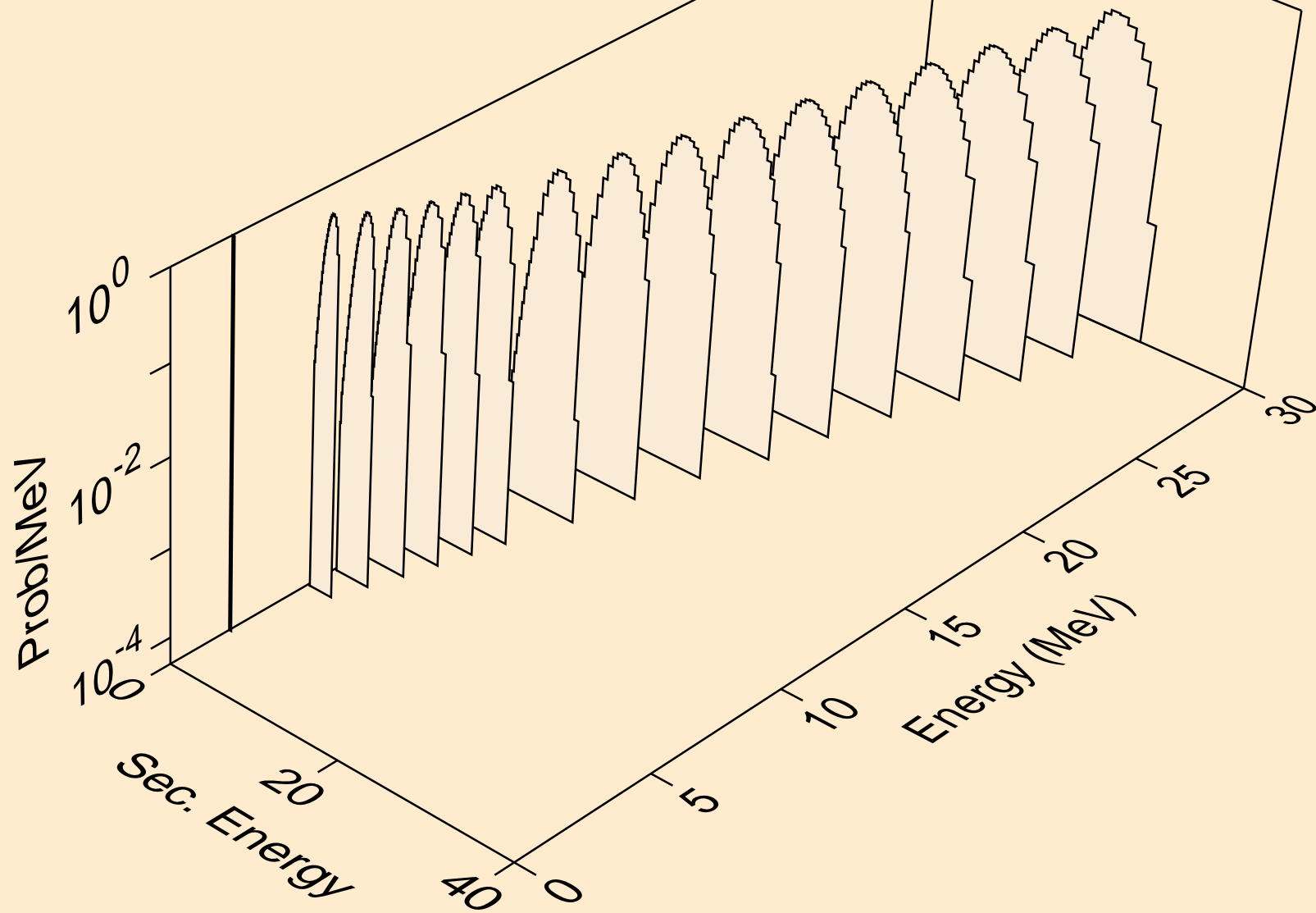
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deuterons from (s,x)



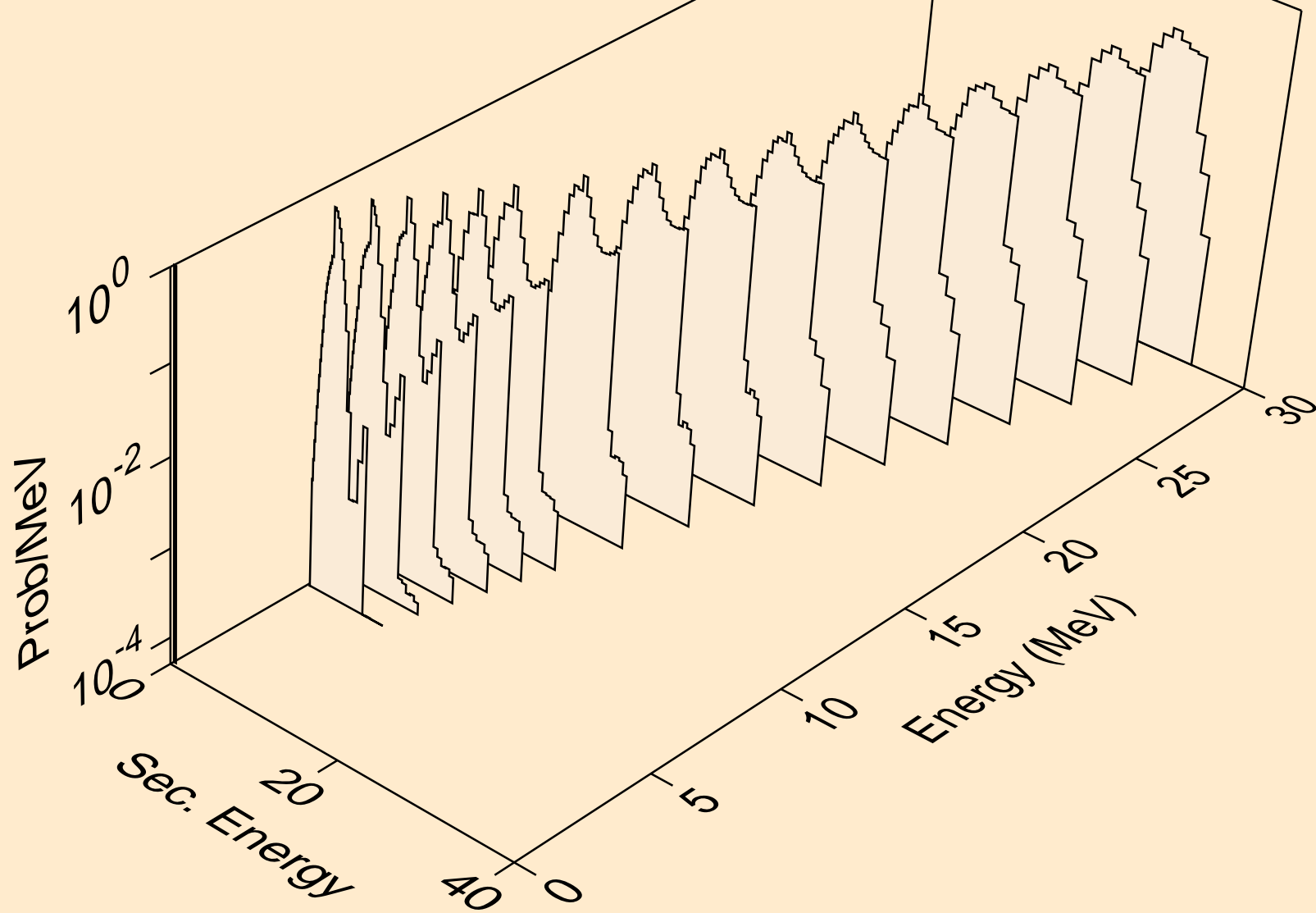
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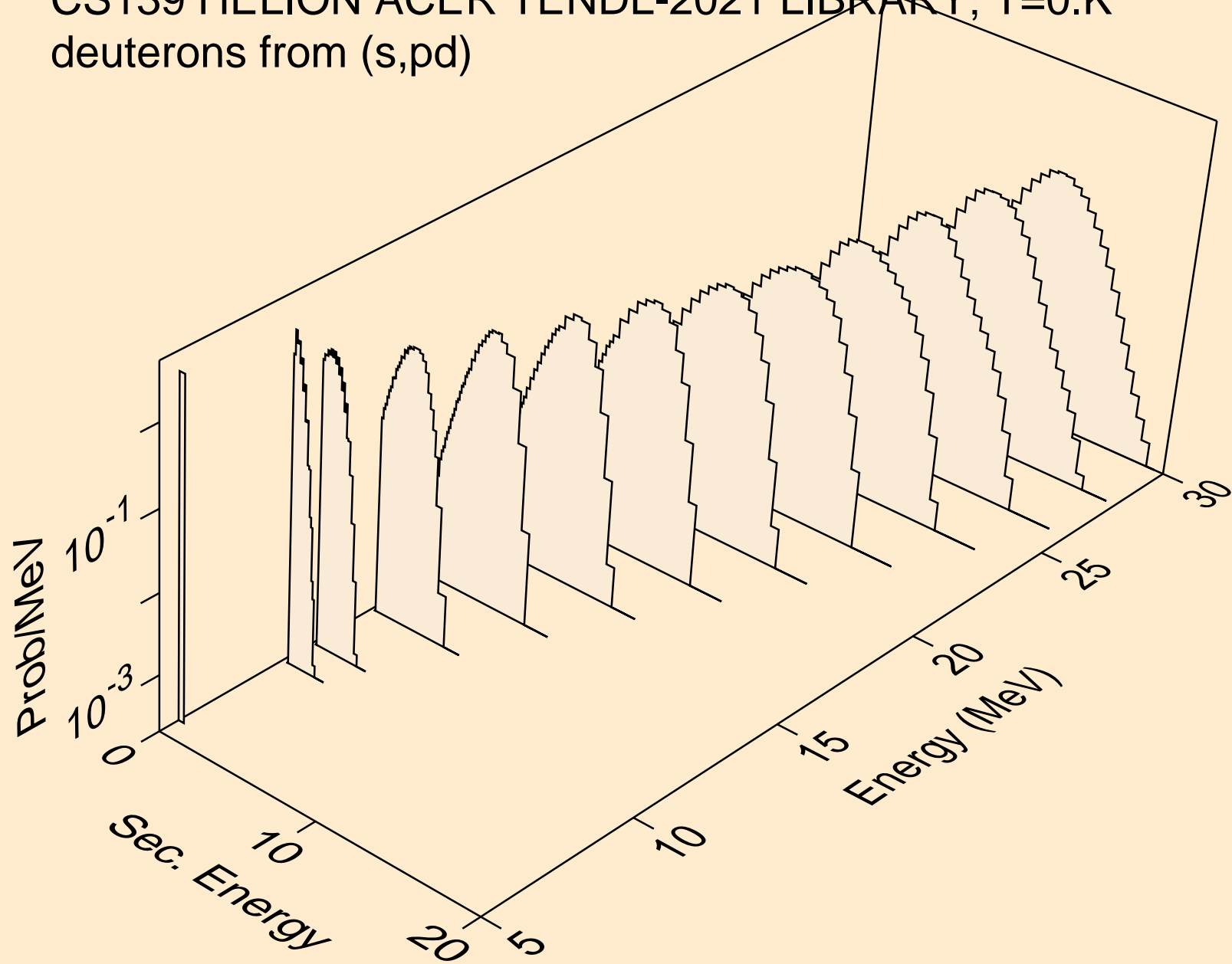
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deuterons from (s,n*)d



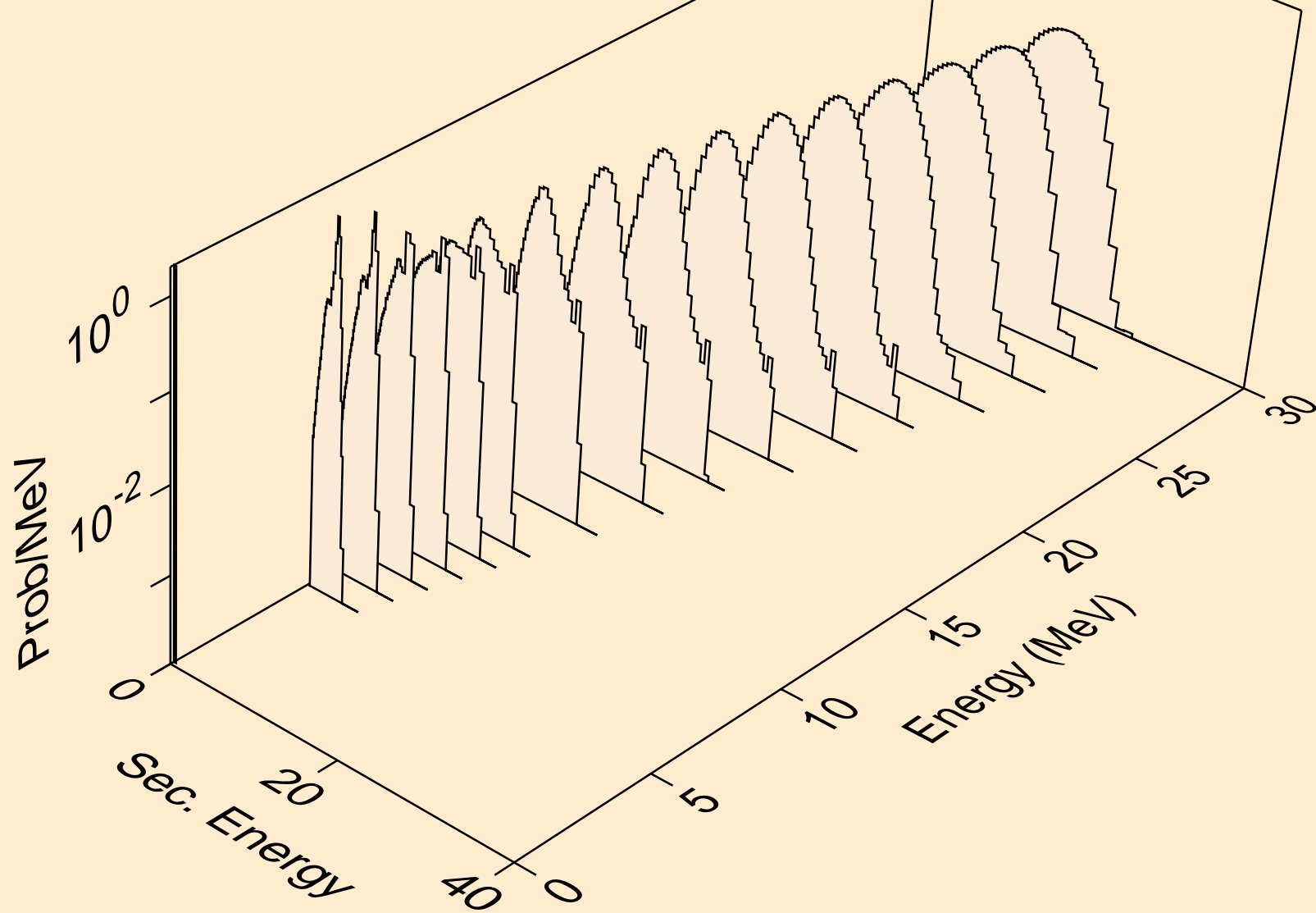
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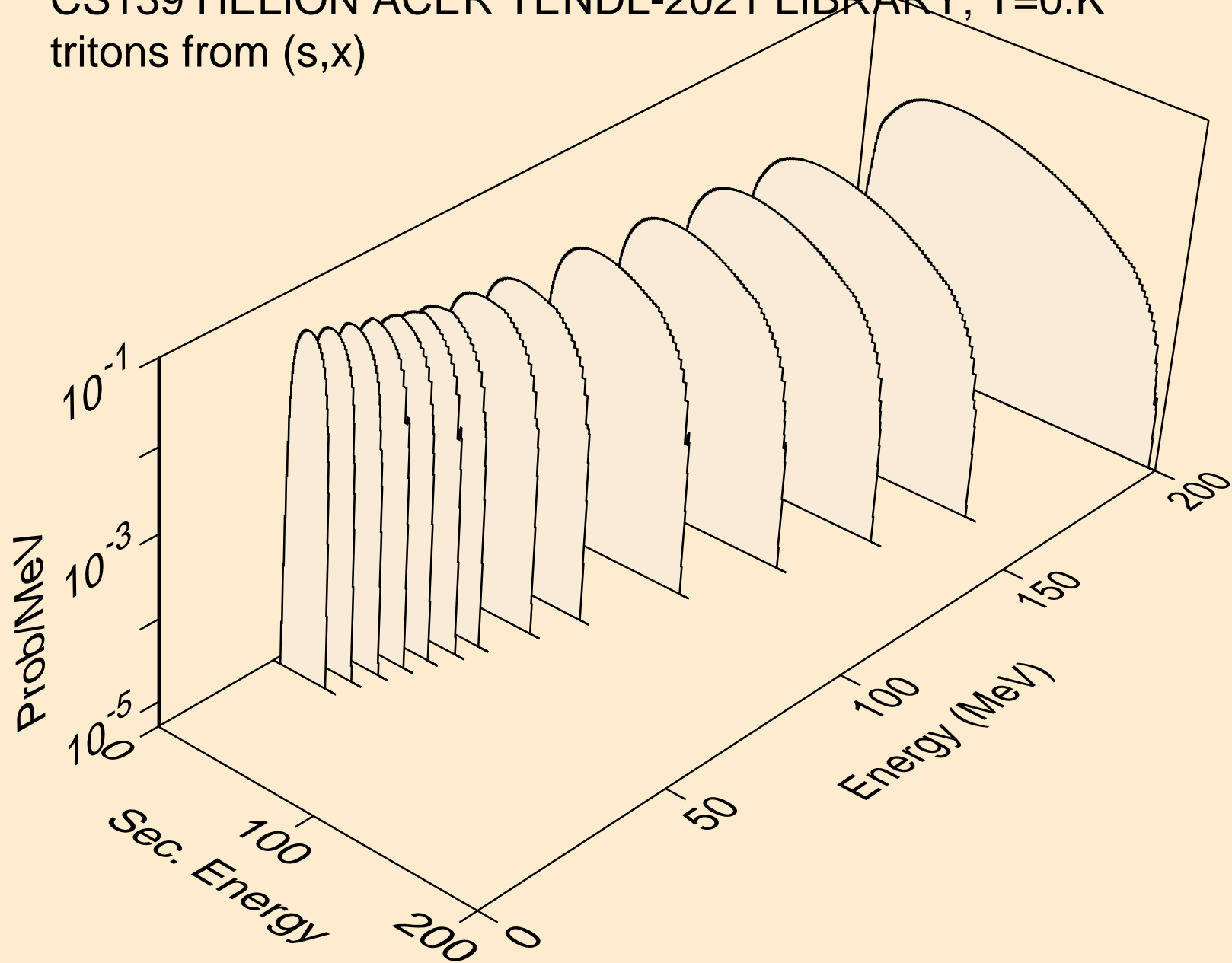
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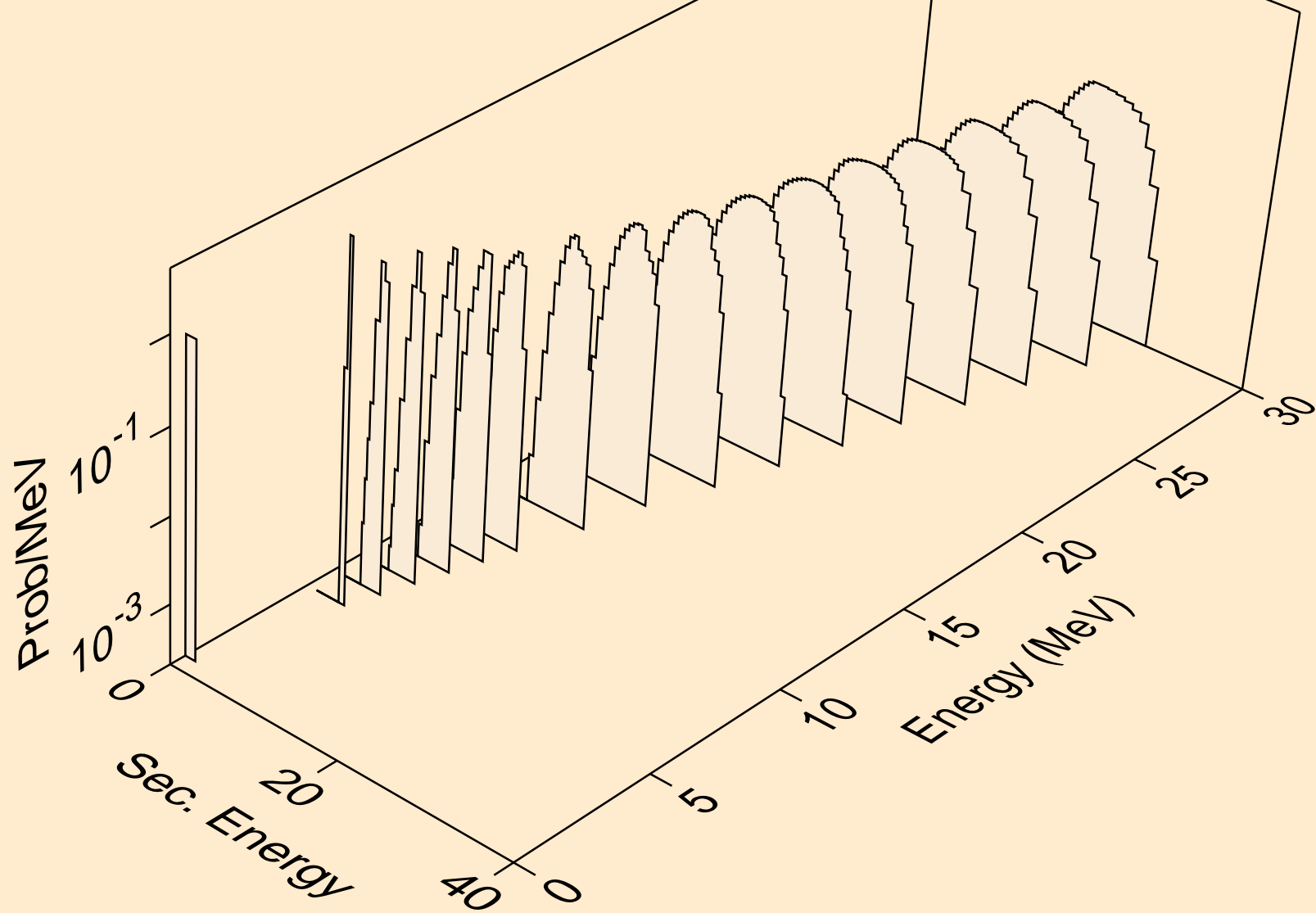
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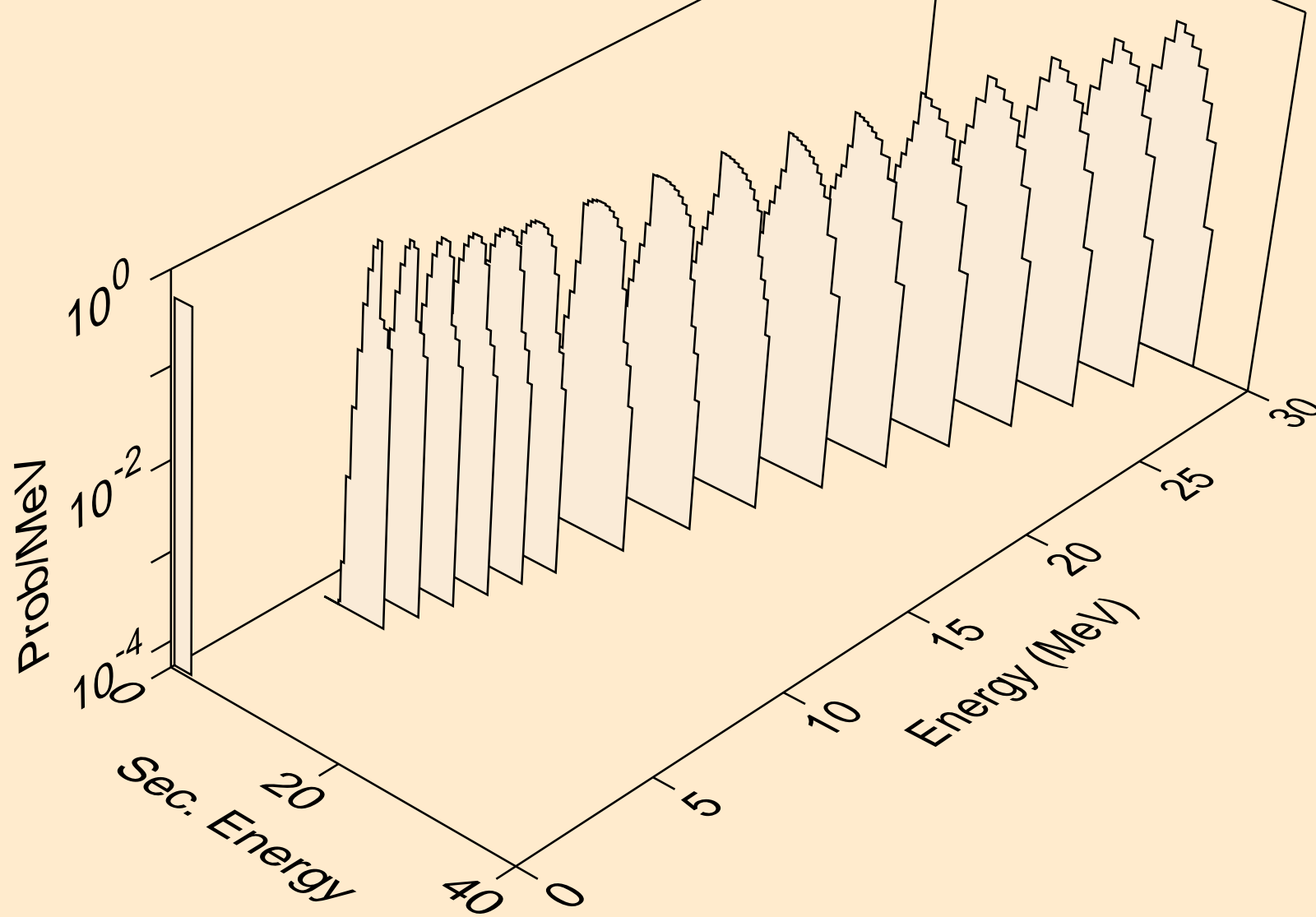
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tritons from (s,x)



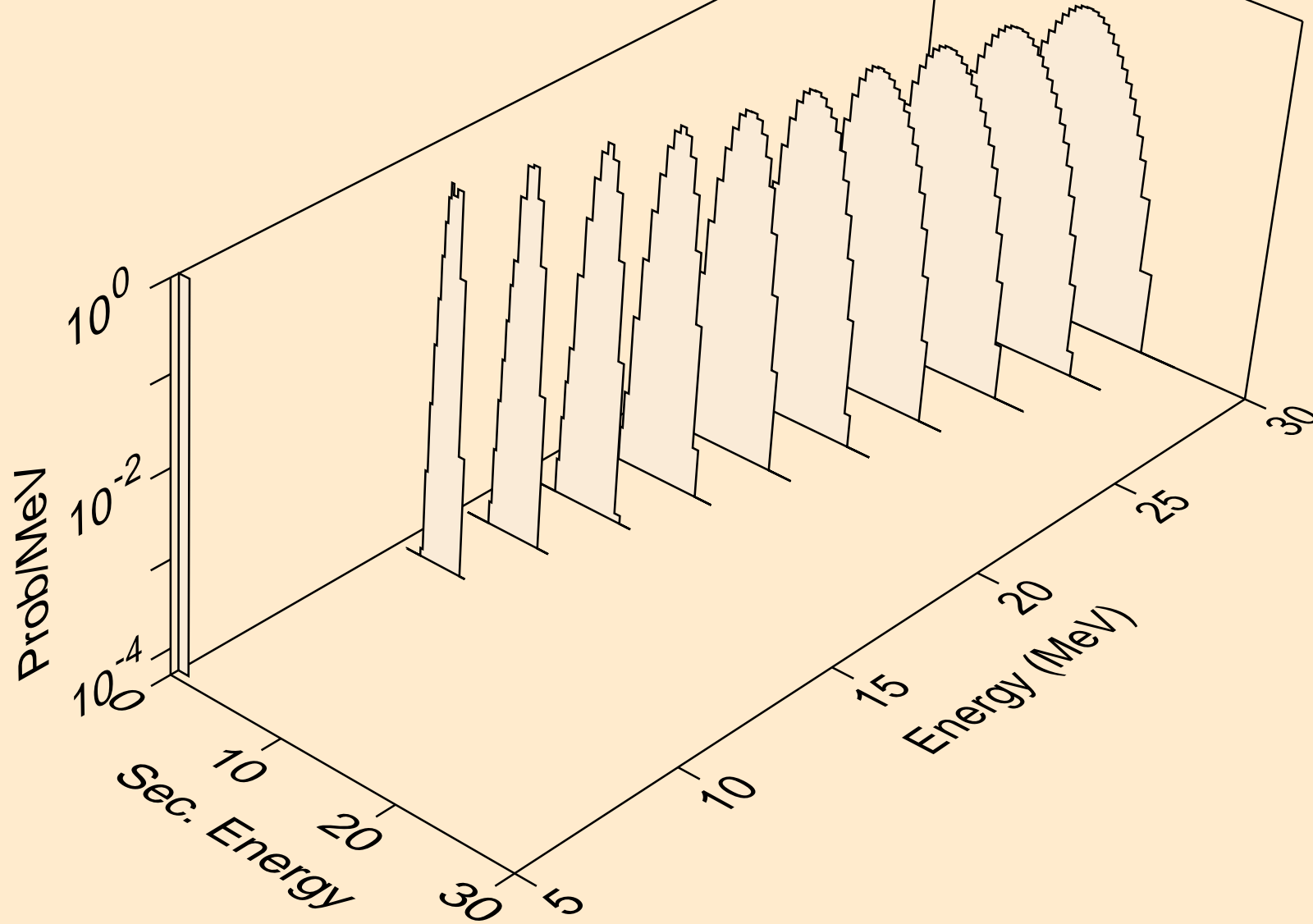
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tritons from (s,n*)t



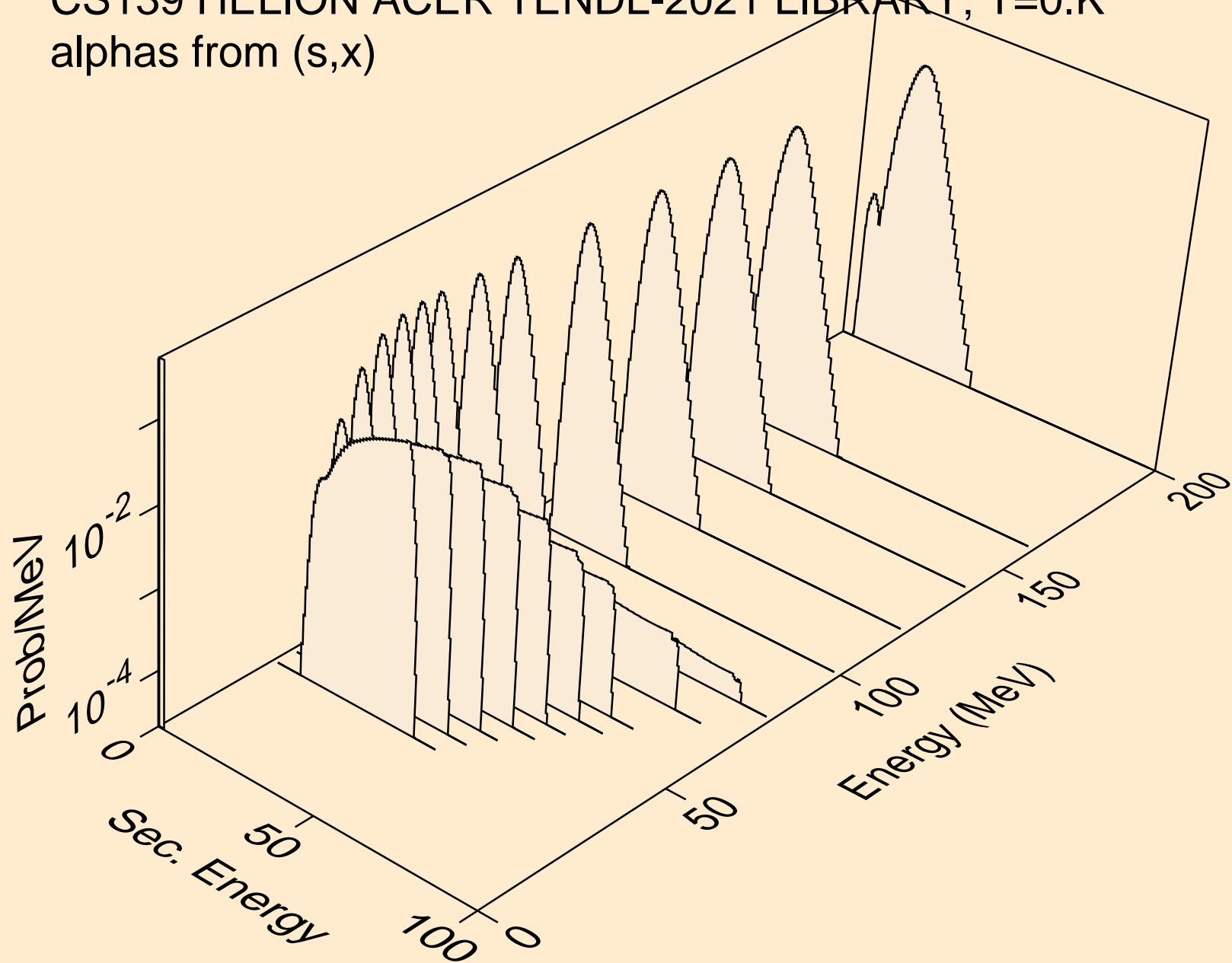
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tritons from (s,t)



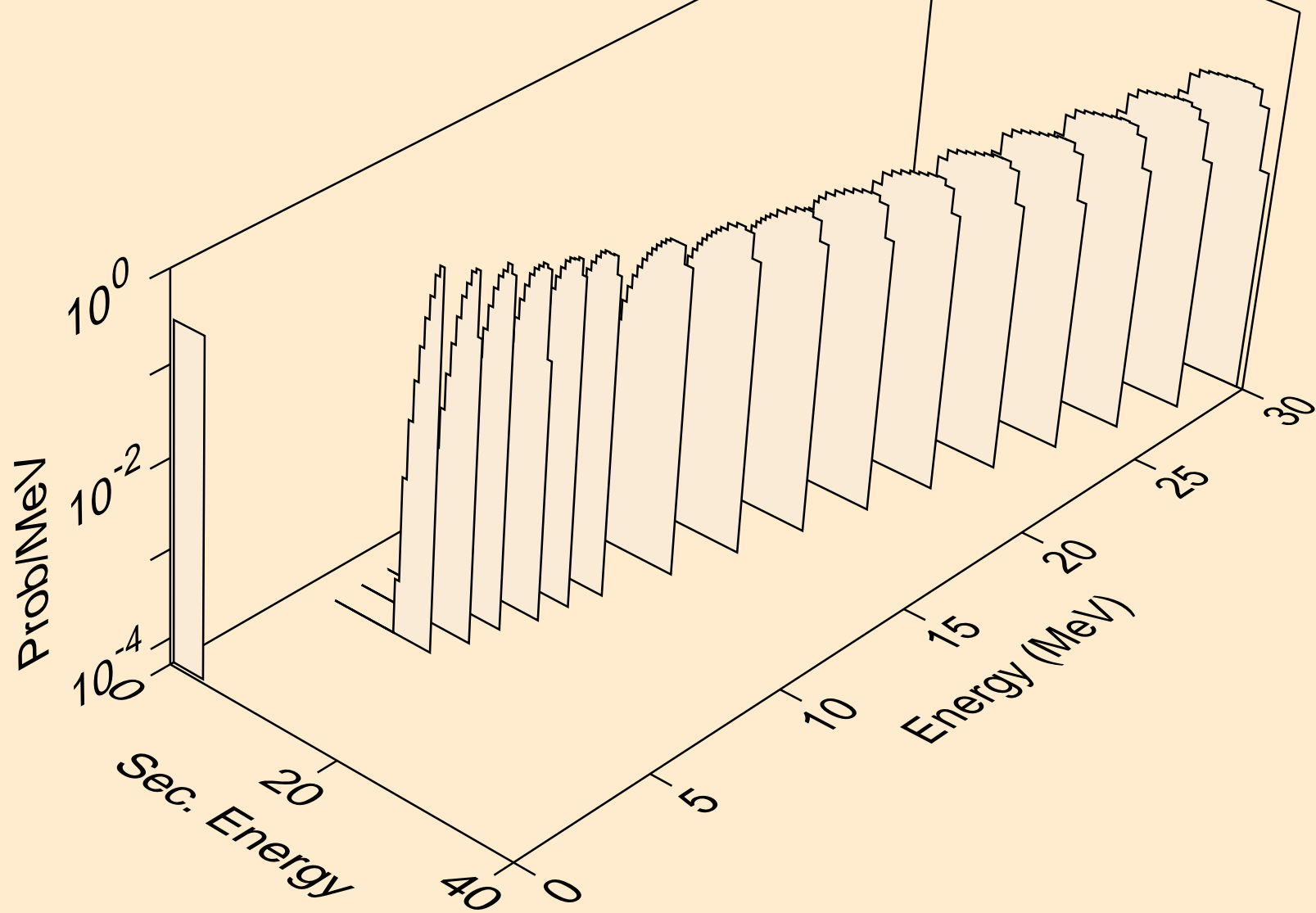
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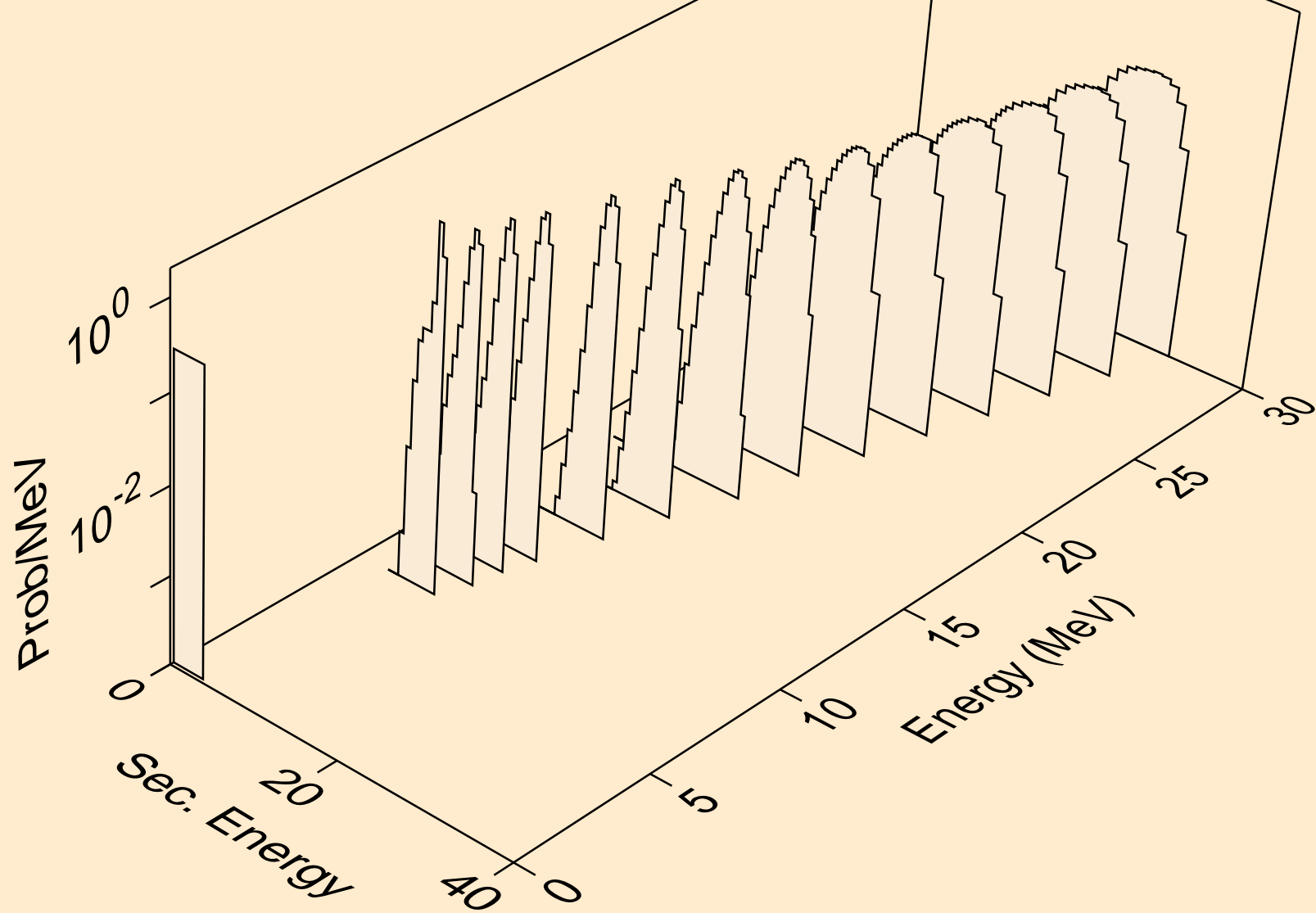
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alphas from (s,x)



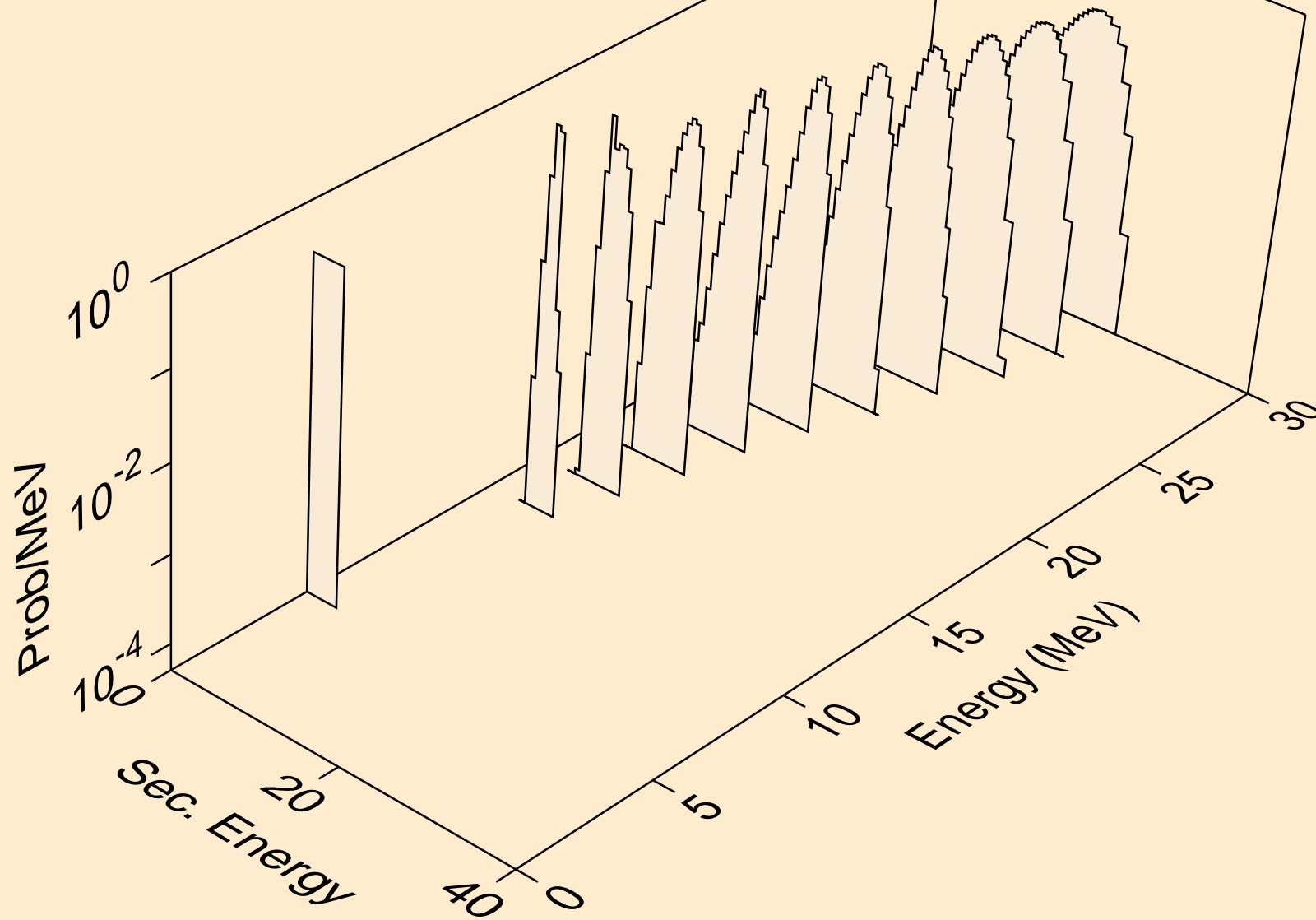
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alphas from (s,n*)a



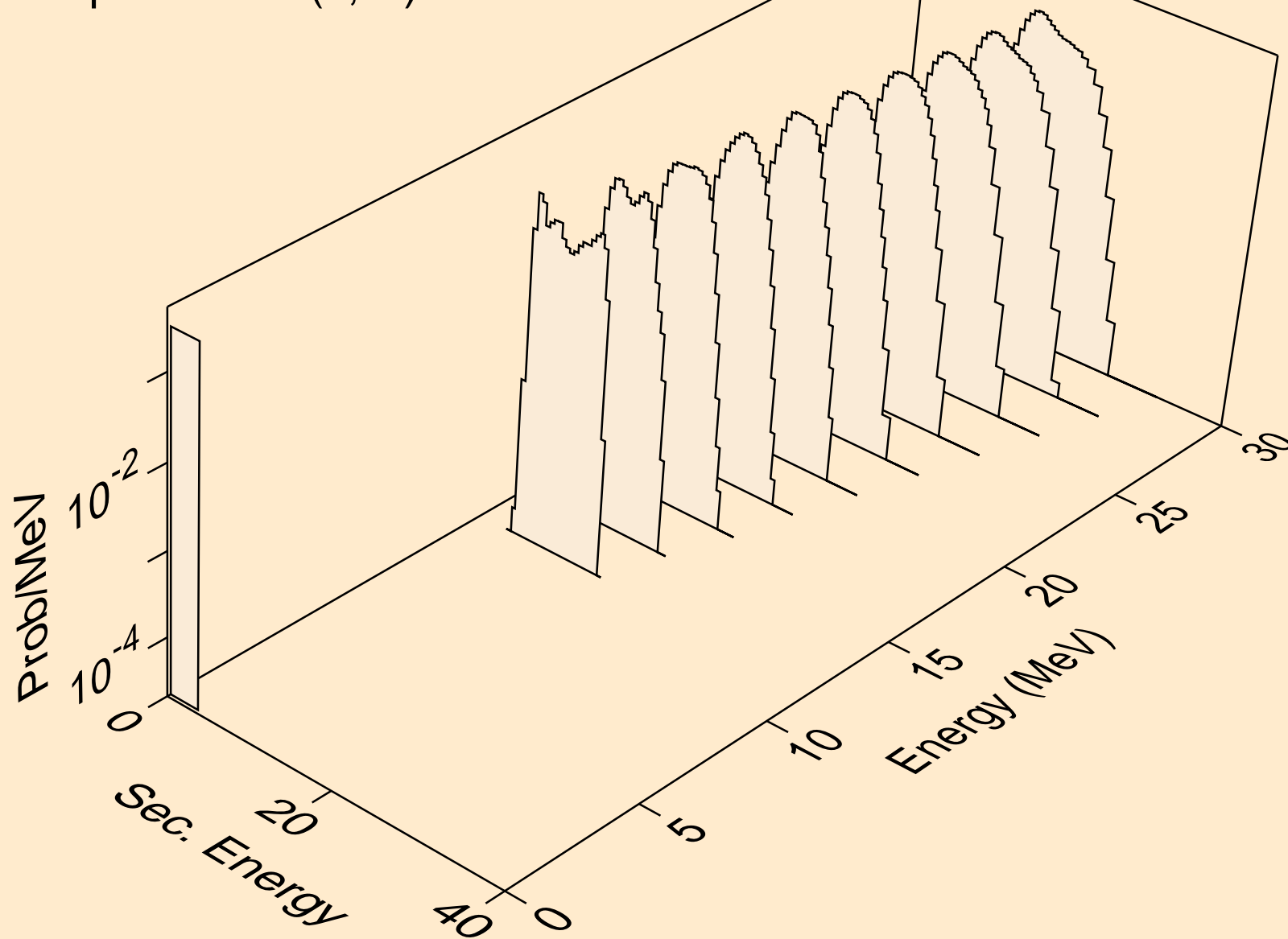
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alphas from (s,2n)a



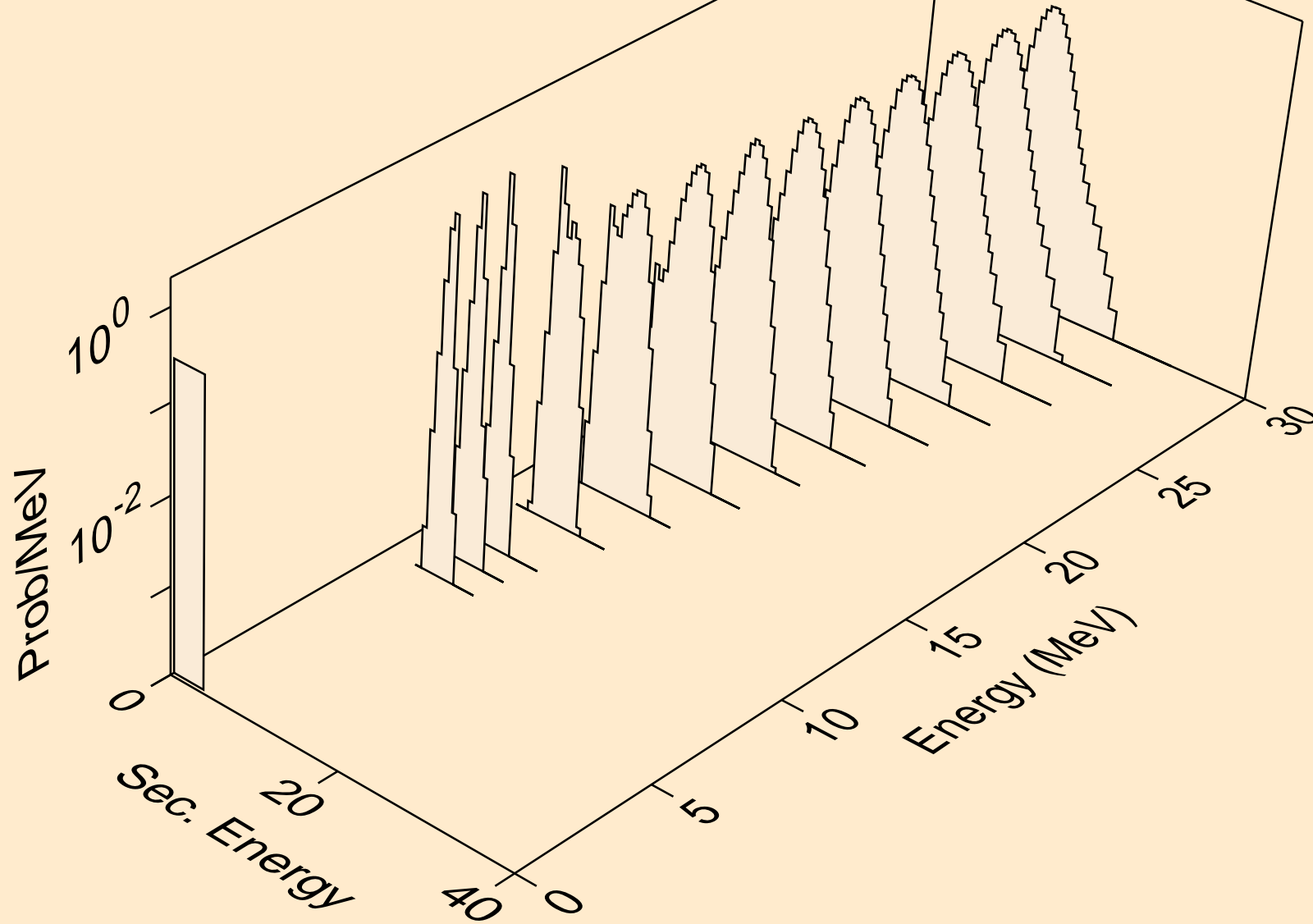
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alphas from (s,3n)a



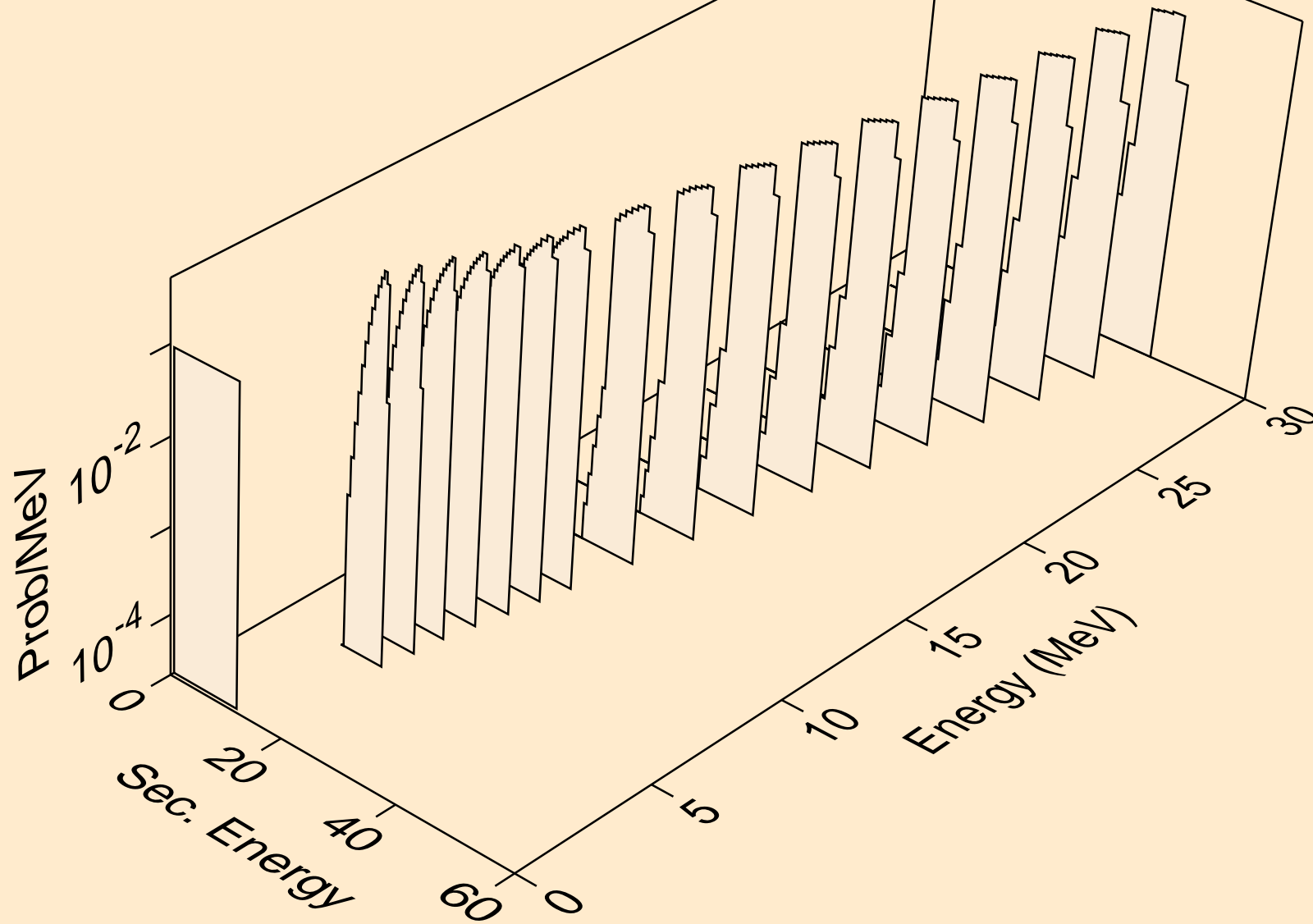
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alphas from (s,n*)2a



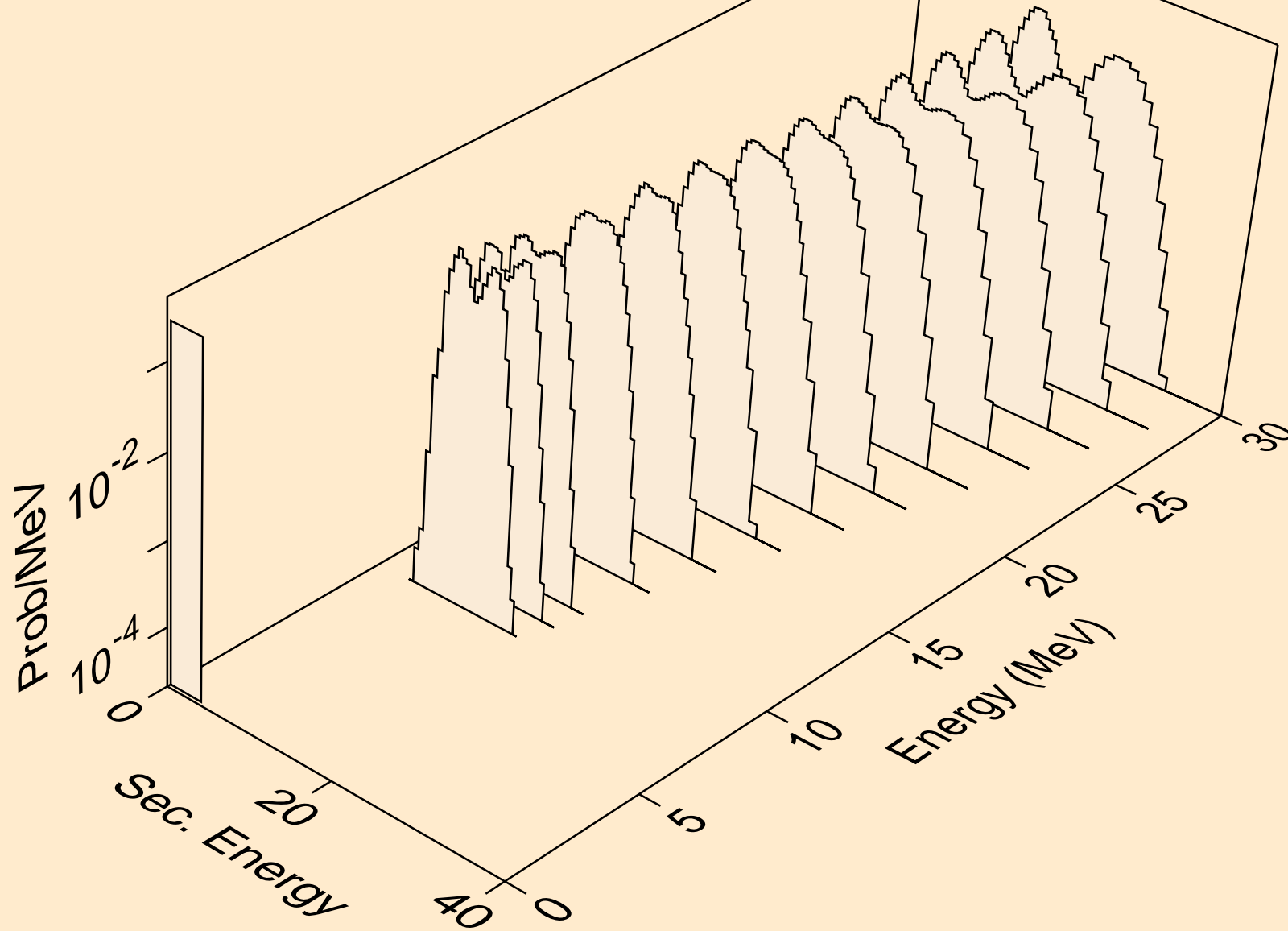
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alphas from (s,npa)



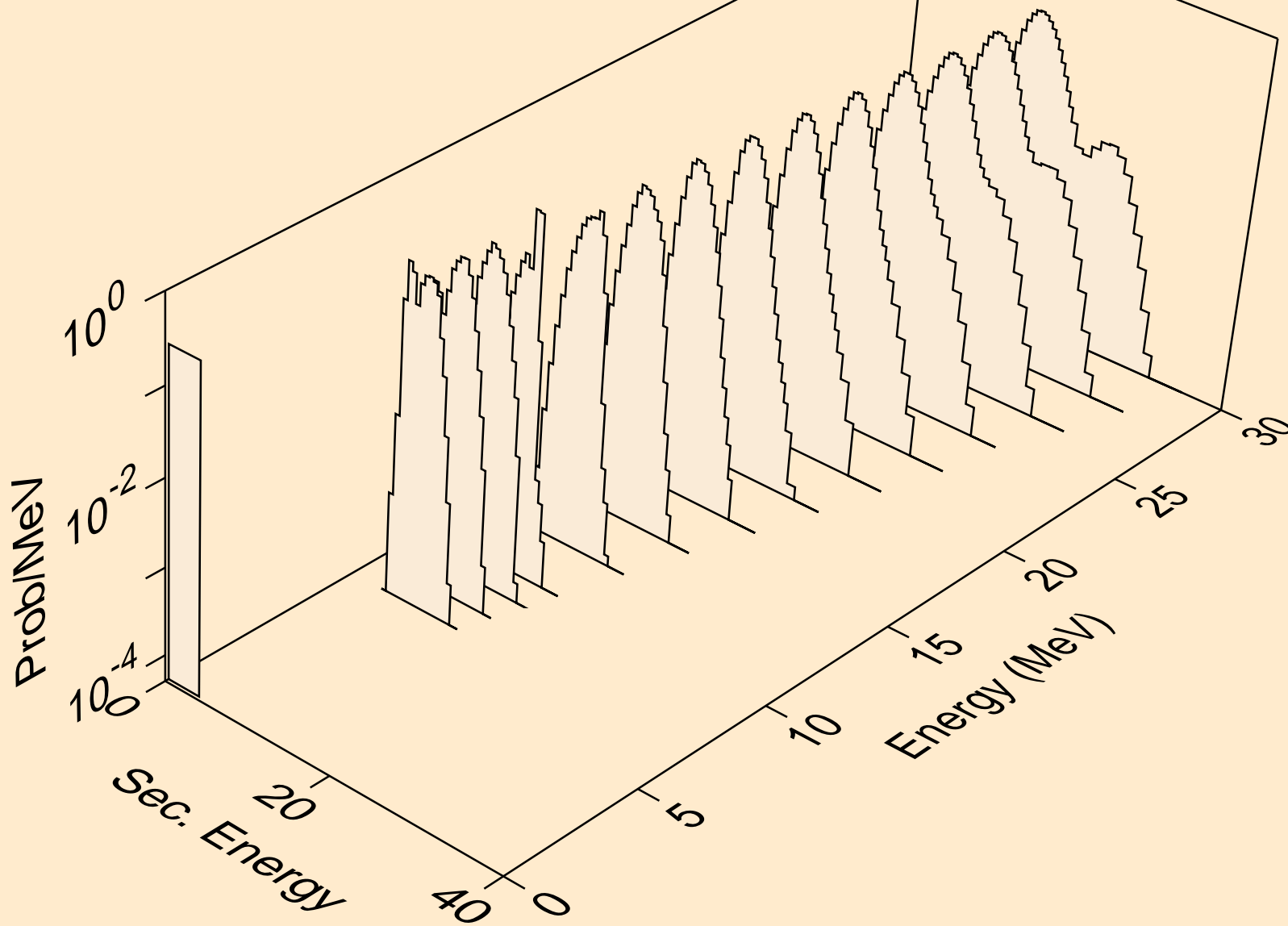
CS139 HELION ACER TENDL-2021 LIBRARY; T=0.K
alphas from (s,a)



CS139 HELION ACER TENDL-2021 LIBRARY; T=0.K
alphas from (s,2a)



CS139 HELION ACER TENDL-2021 LIBRARY; T=0.K
alphas from (s,pa)



CS139 HELION ACER TENDL-2021 LIBRARY; T=0.K
alphas from (s,da)

