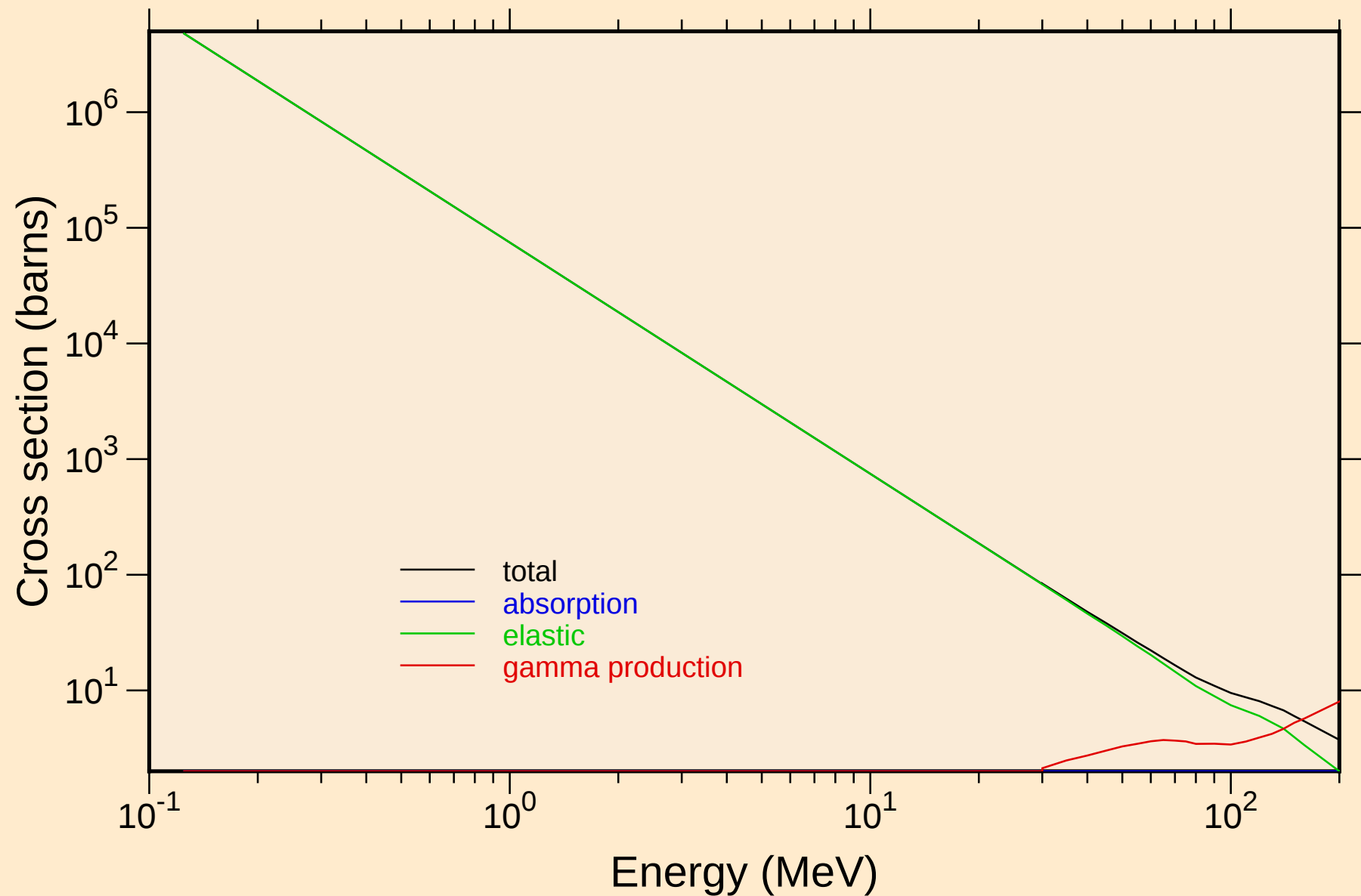


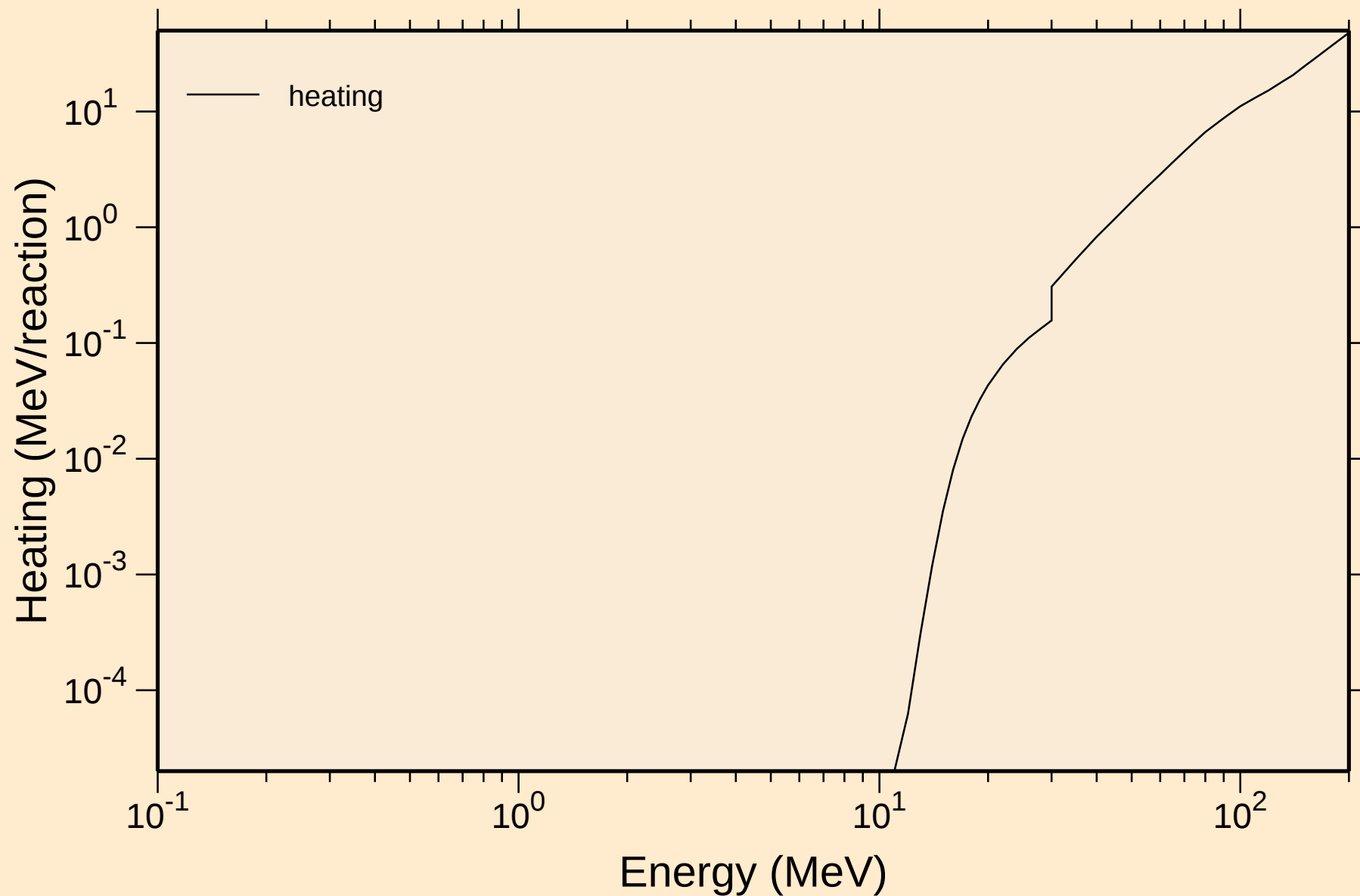
XE139 HELION ACER TENDL-2023 LIBRARY; T=0.K

Principal cross sections



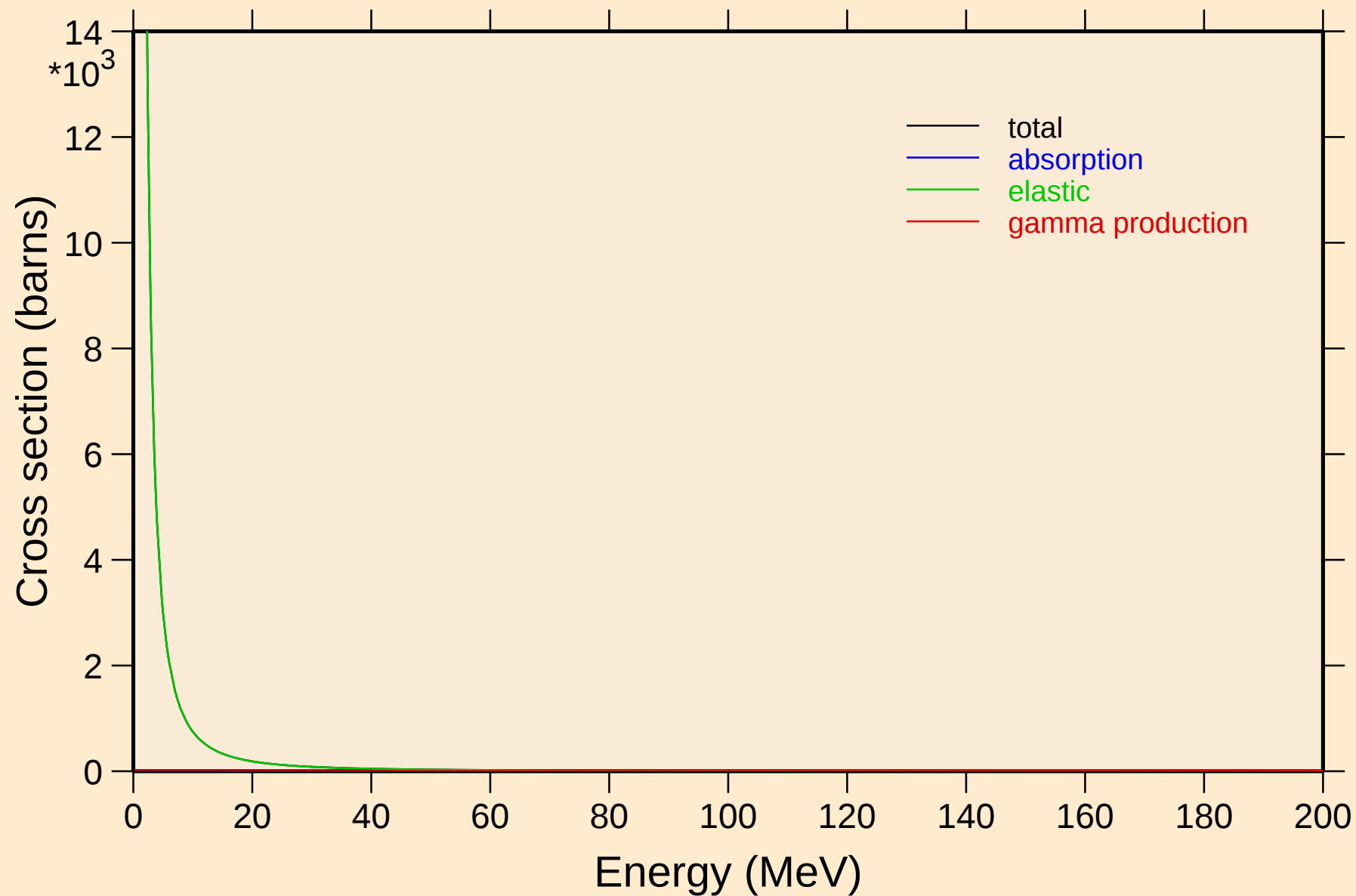
XE139 HELION ACER TENDL-2023 LIBRARY; T=0.K

Heating



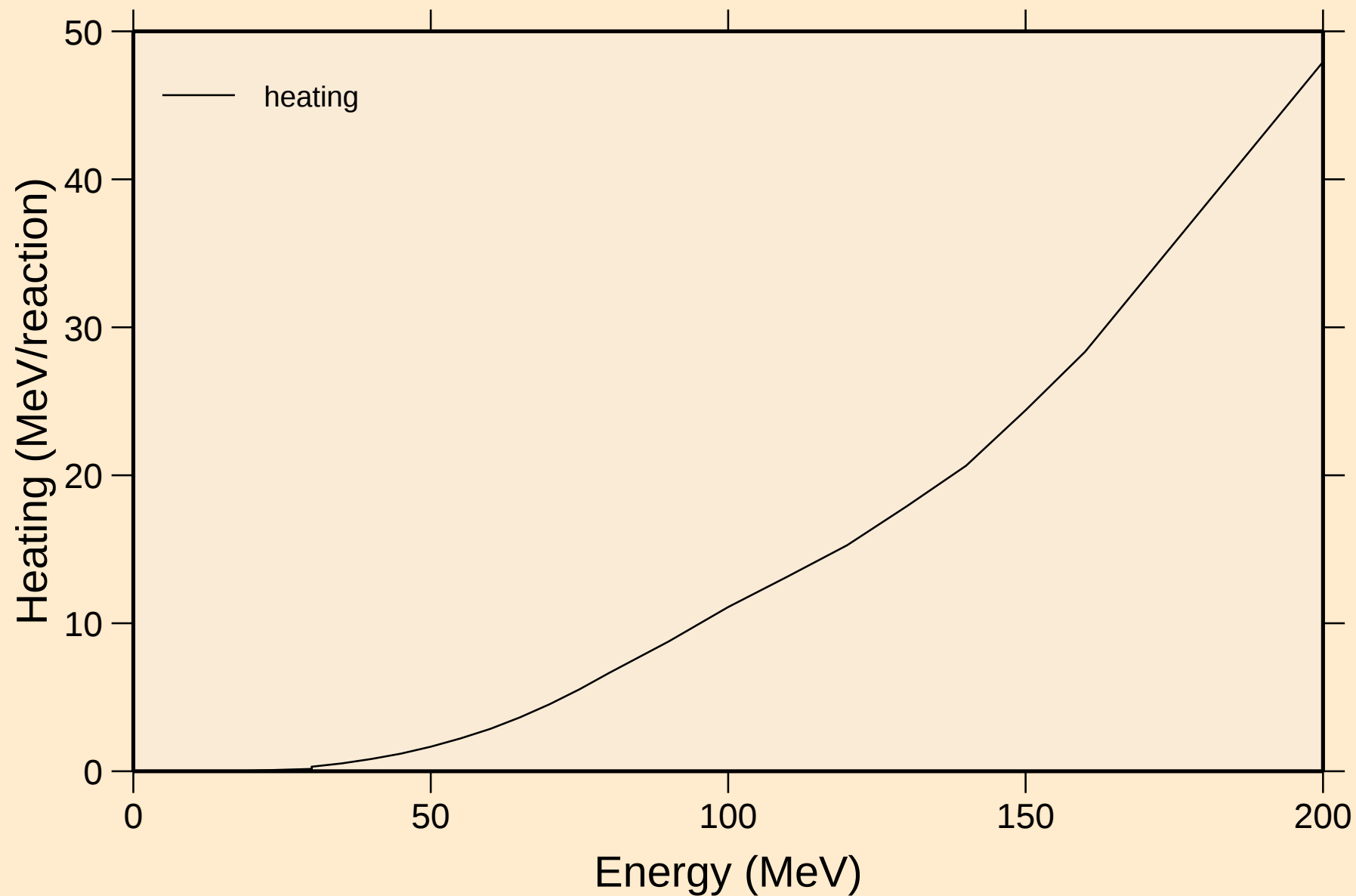
XE139 HELION ACER TENDL-2023 LIBRARY; T=0.K

Principal cross sections



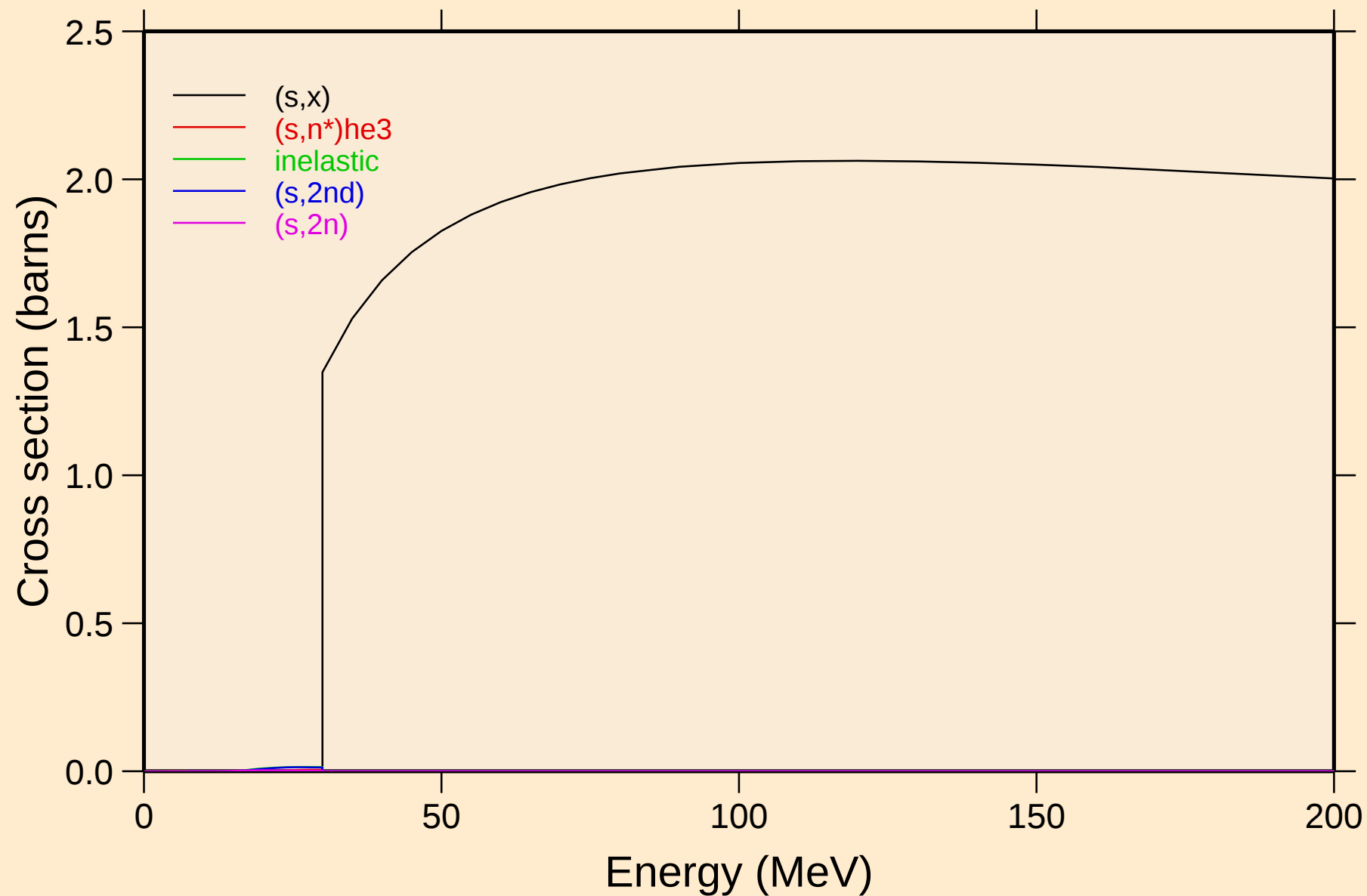
XE139 HELION ACER TENDL-2023 LIBRARY; T=0.K

Heating



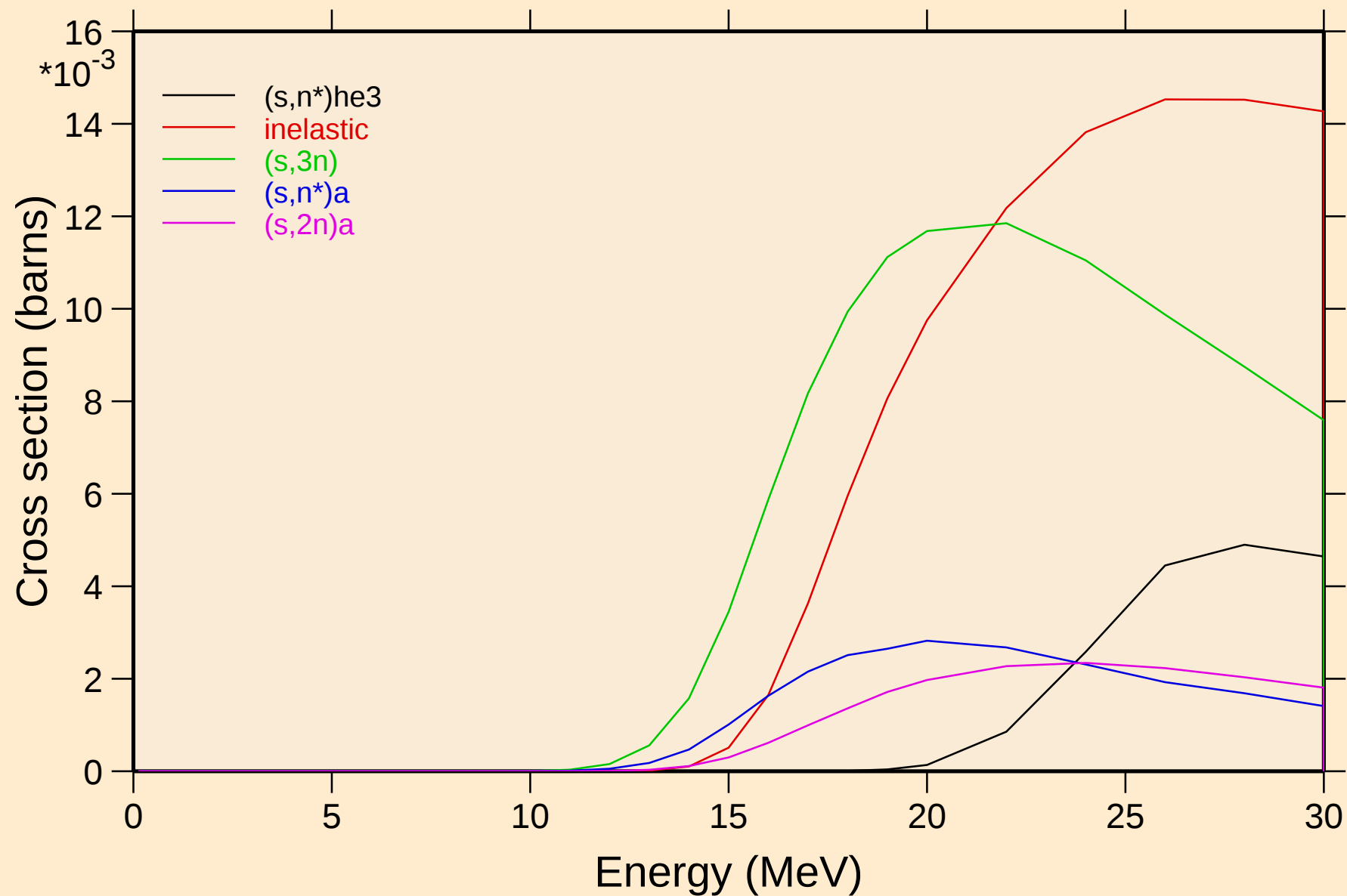
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Threshold reactions



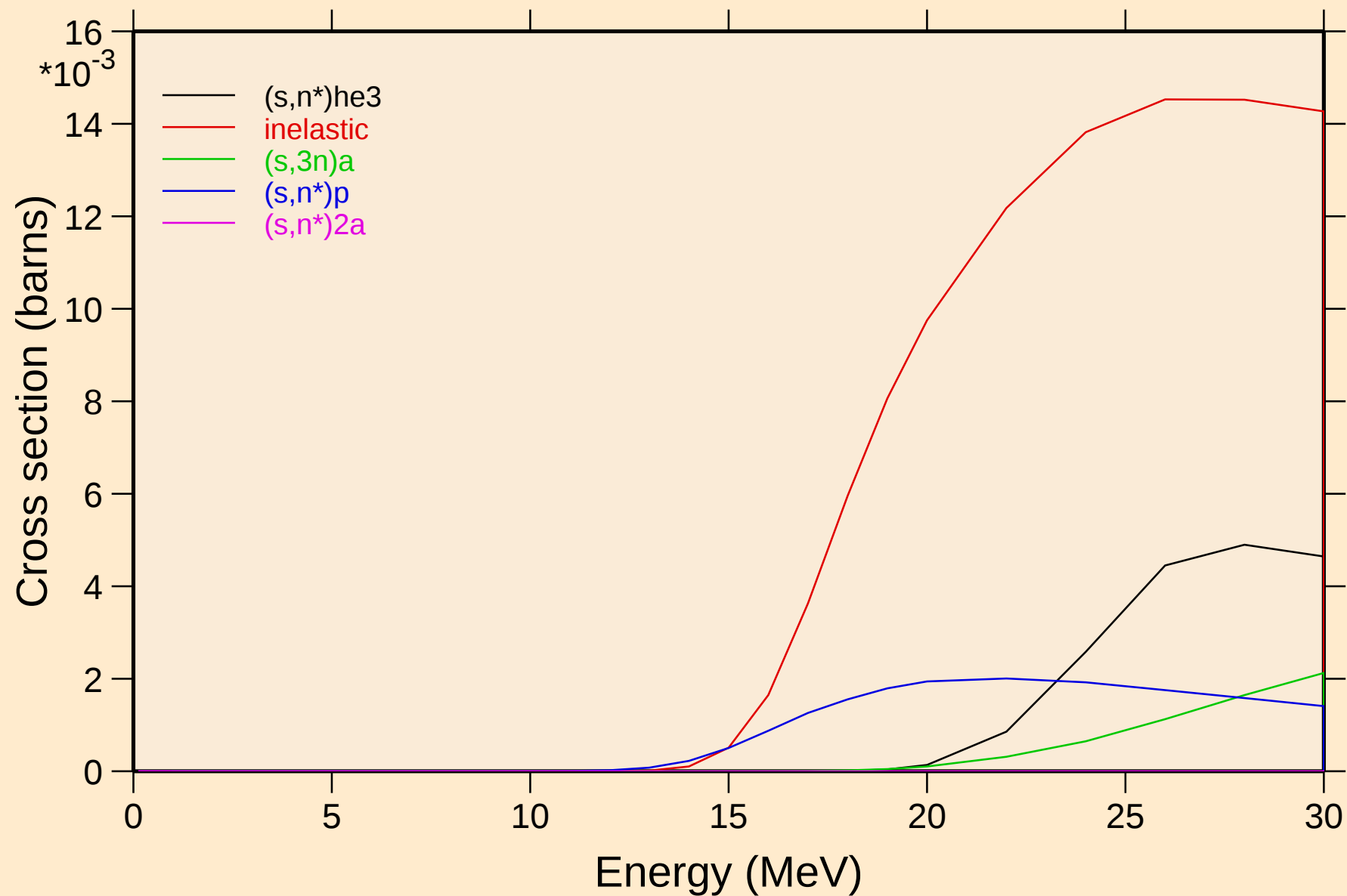
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Threshold reactions



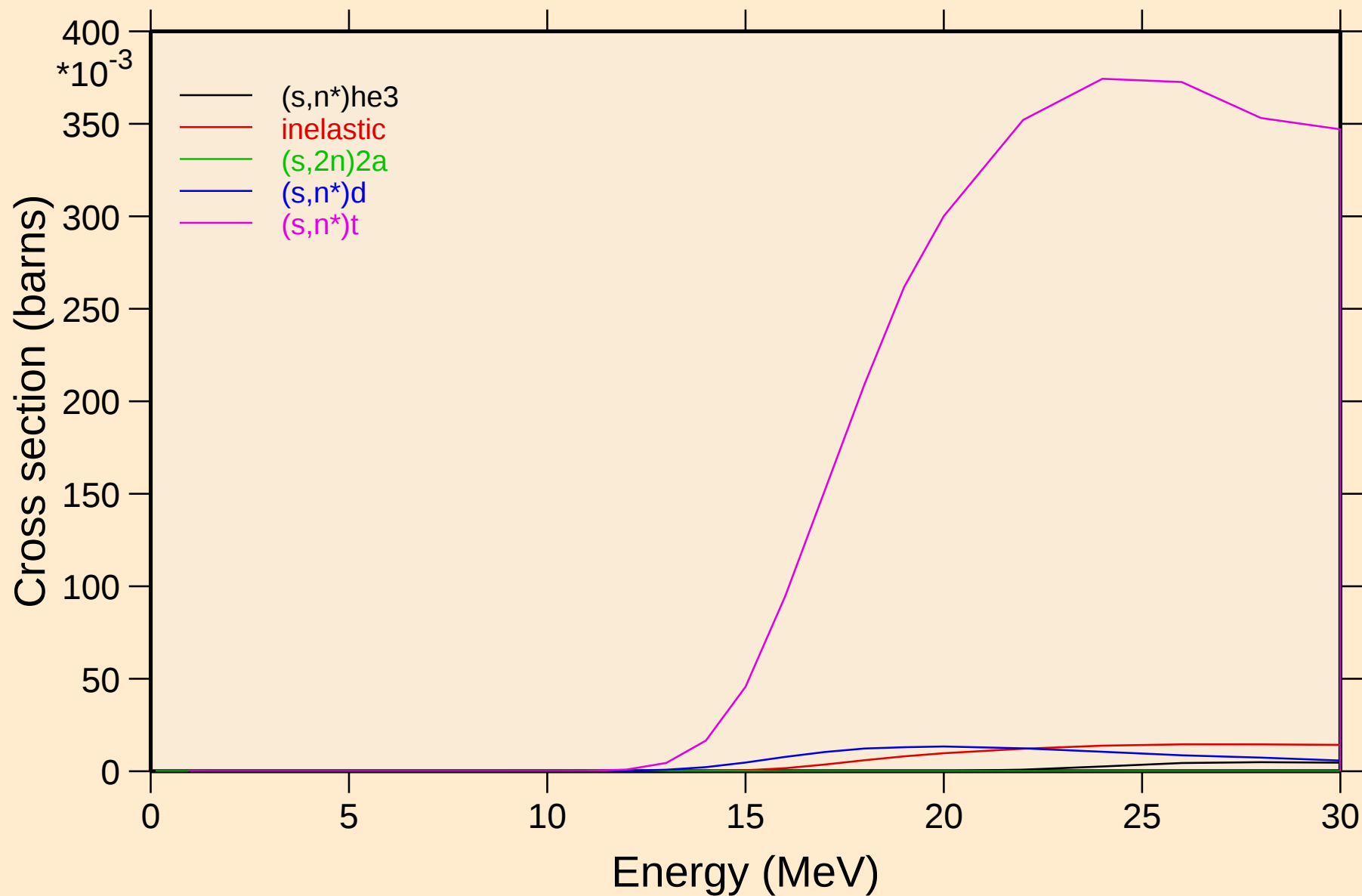
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Threshold reactions



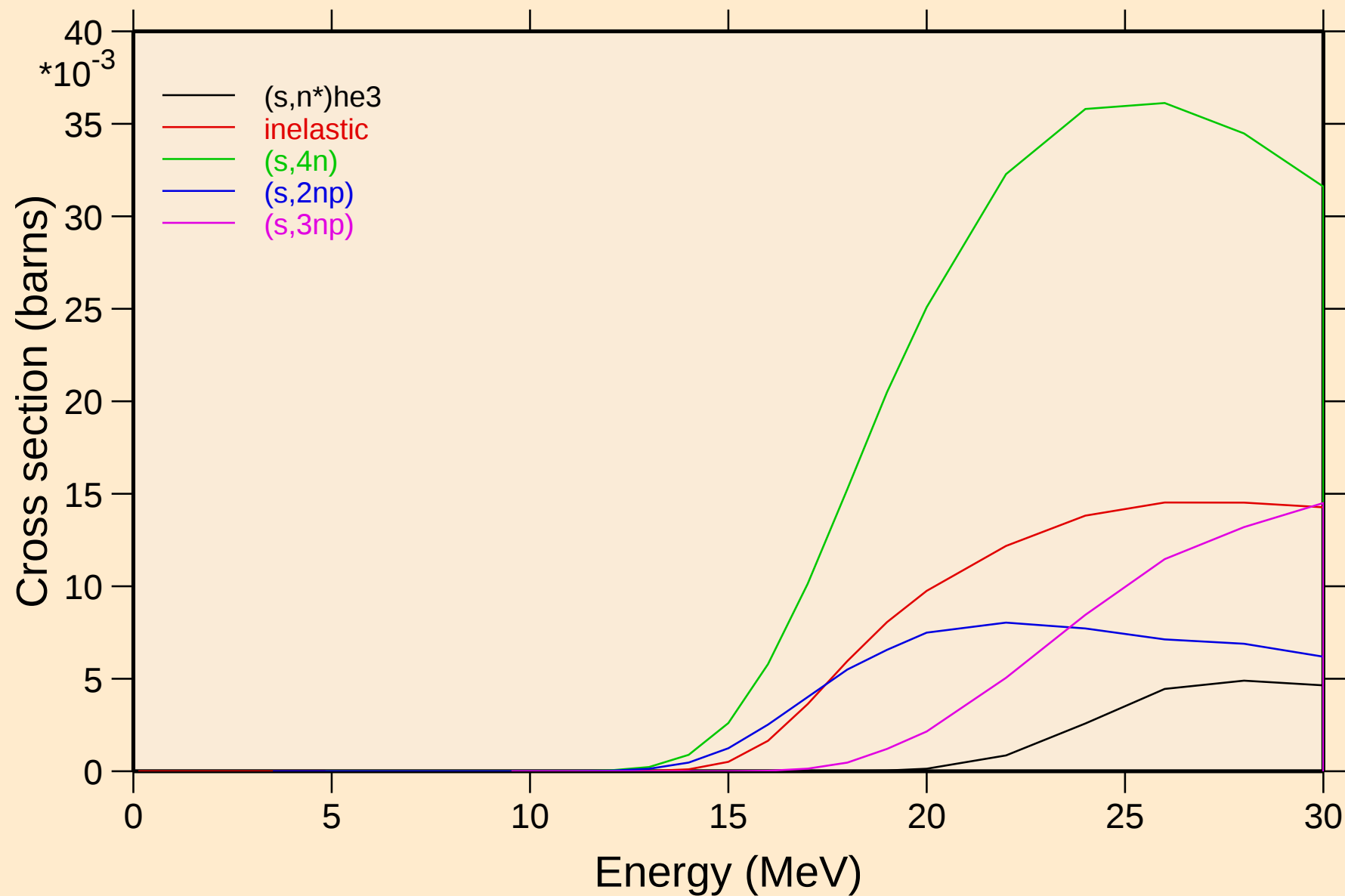
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Threshold reactions



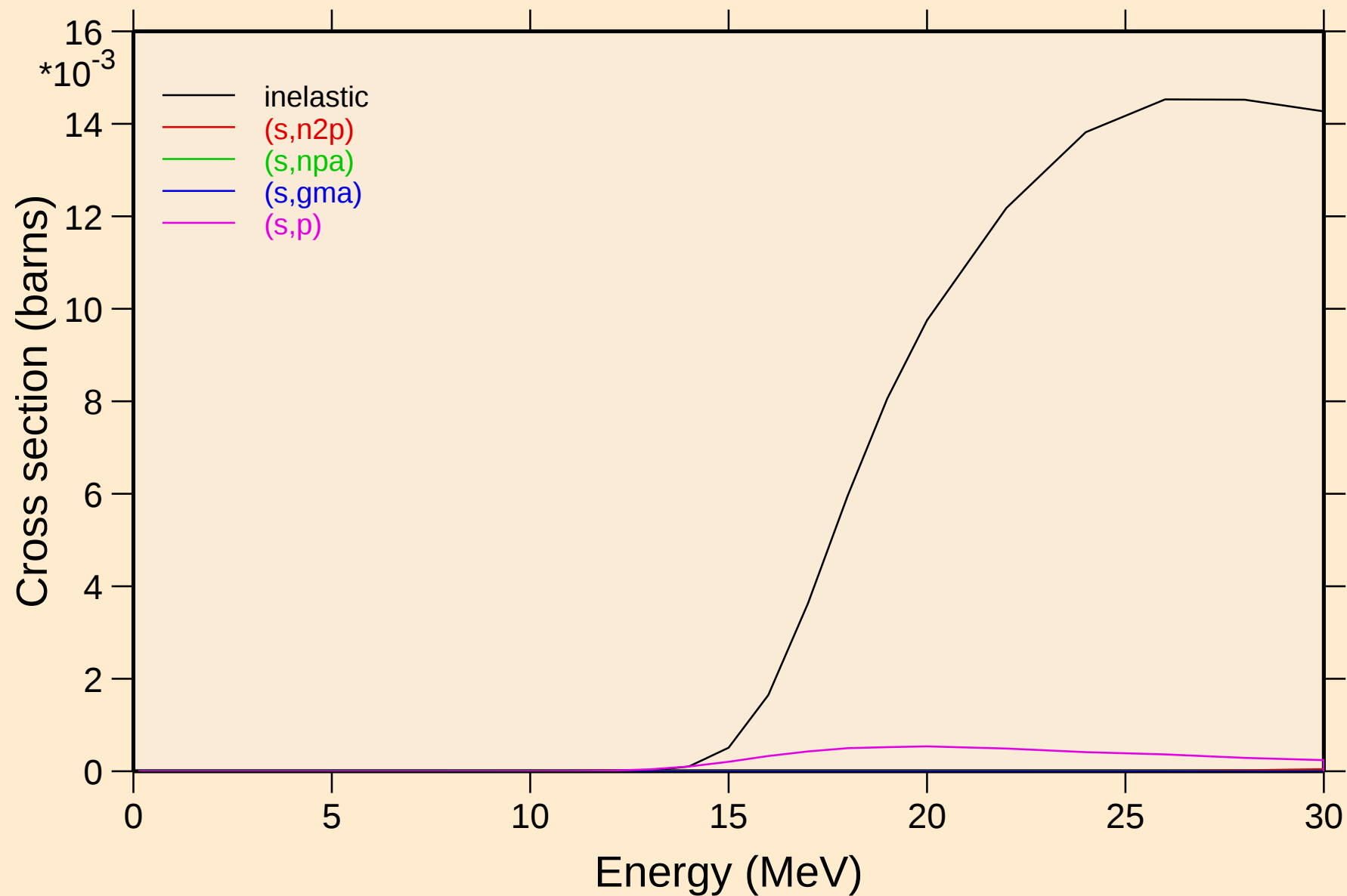
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Threshold reactions

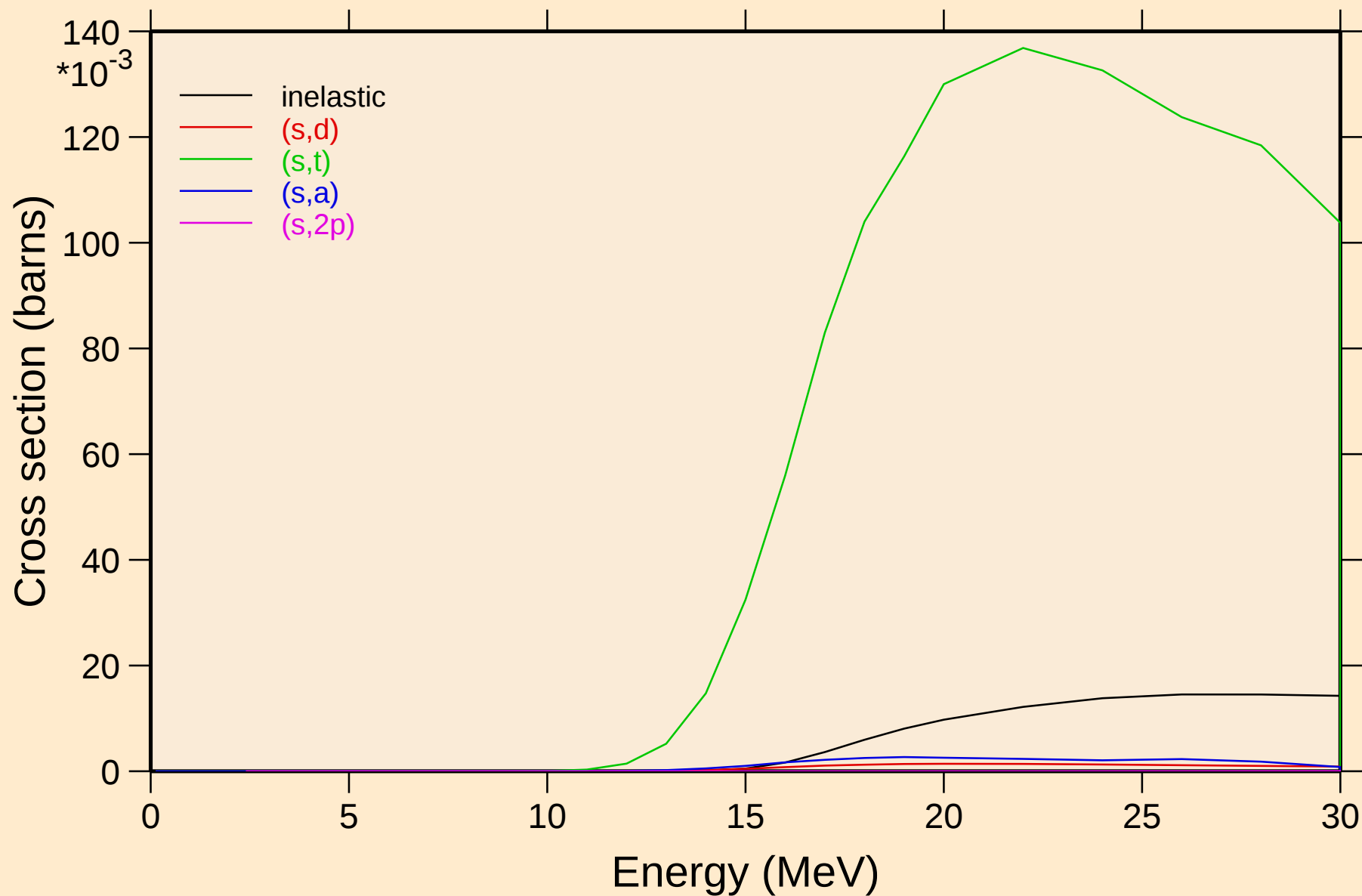


XE139 HELION ACER TENDL-2023 LIBRARY; T=0.K

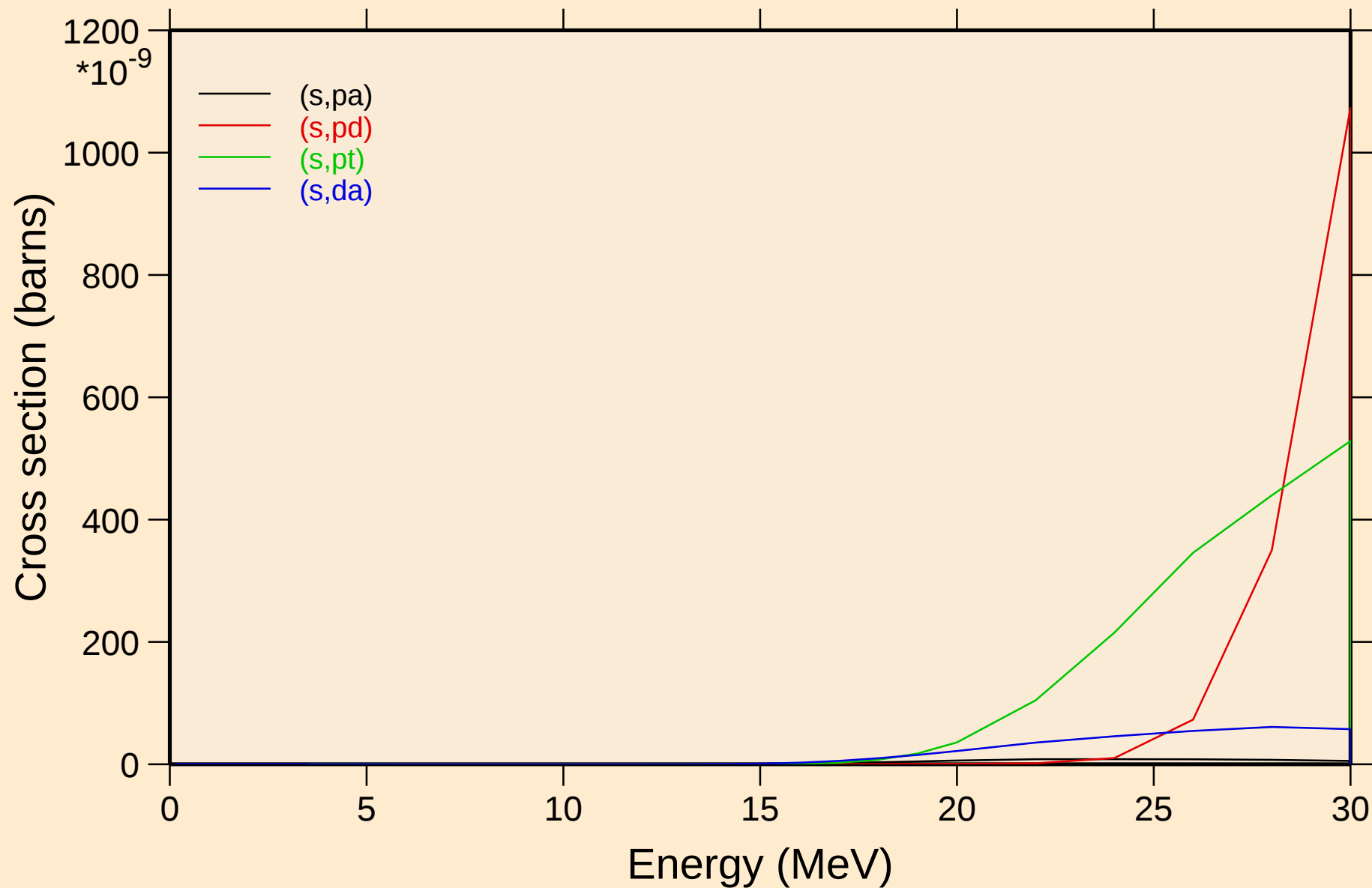
Threshold reactions



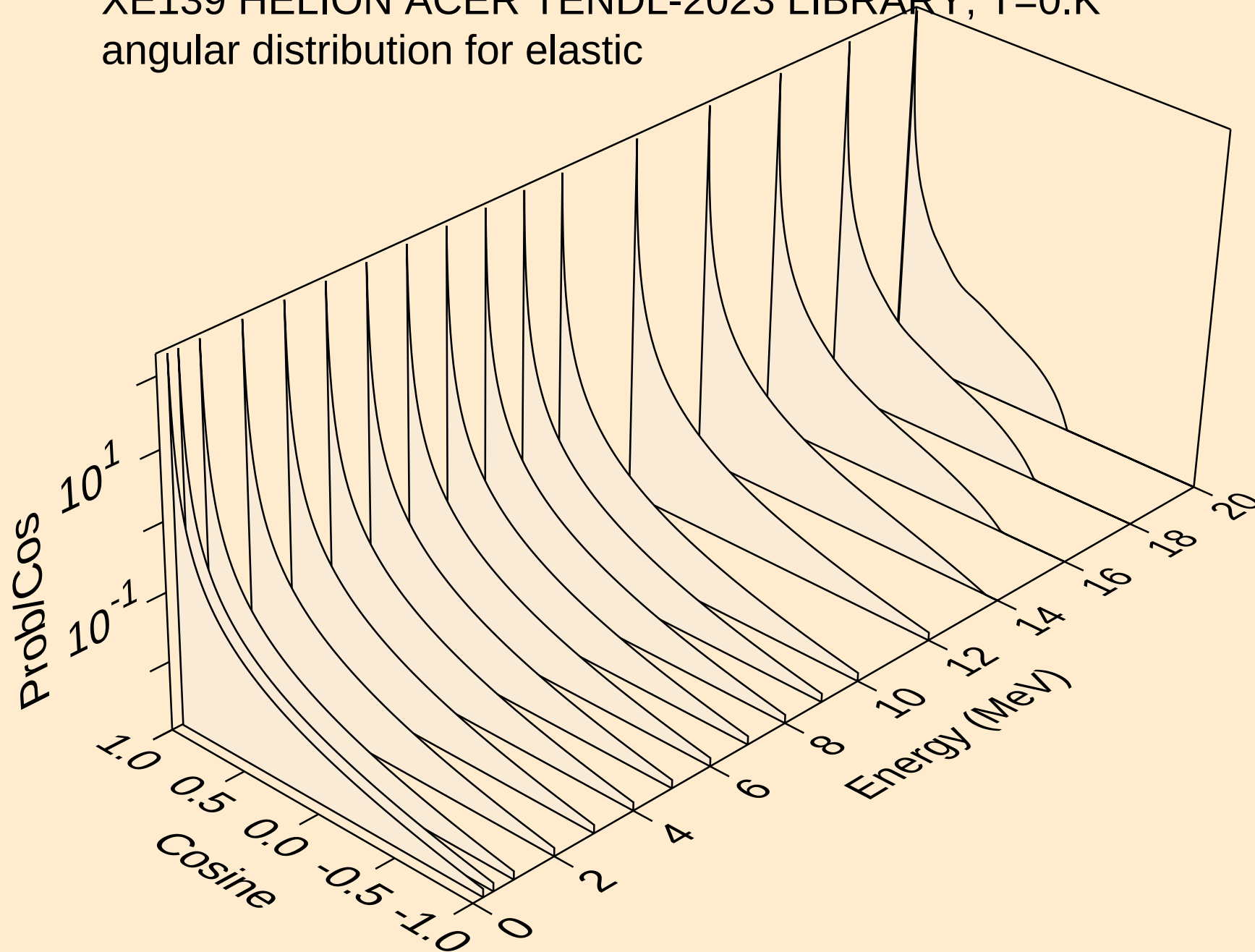
XE139 HELION ACER TENDL-2023 LIBRARY; T=0.K
Threshold reactions



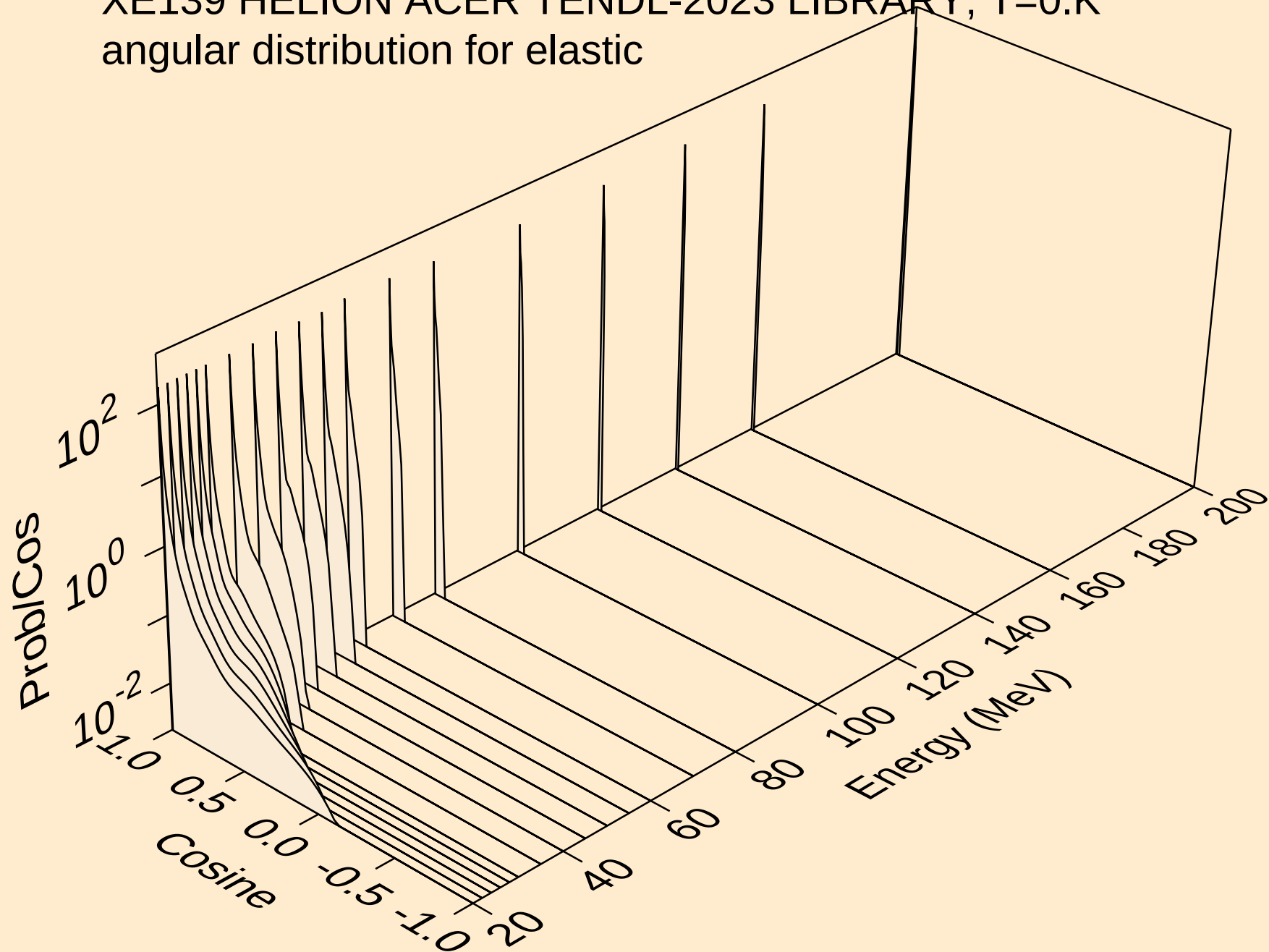
XE139 HELION ACER TENDL-2023 LIBRARY; T=0.K
Threshold reactions



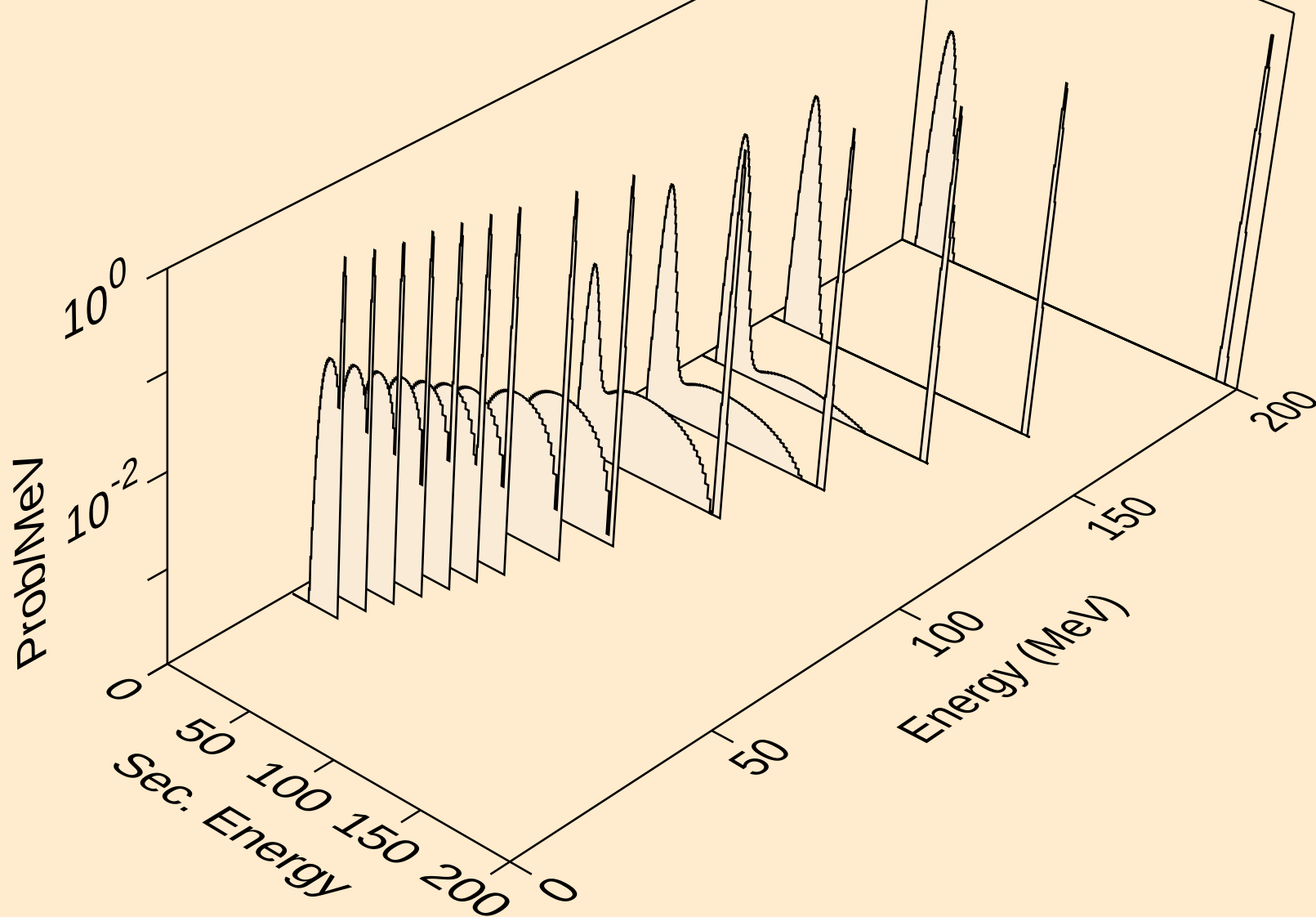
XE139 HELION ACER TENDL-2023 LIBRARY; T=0.K
angular distribution for elastic



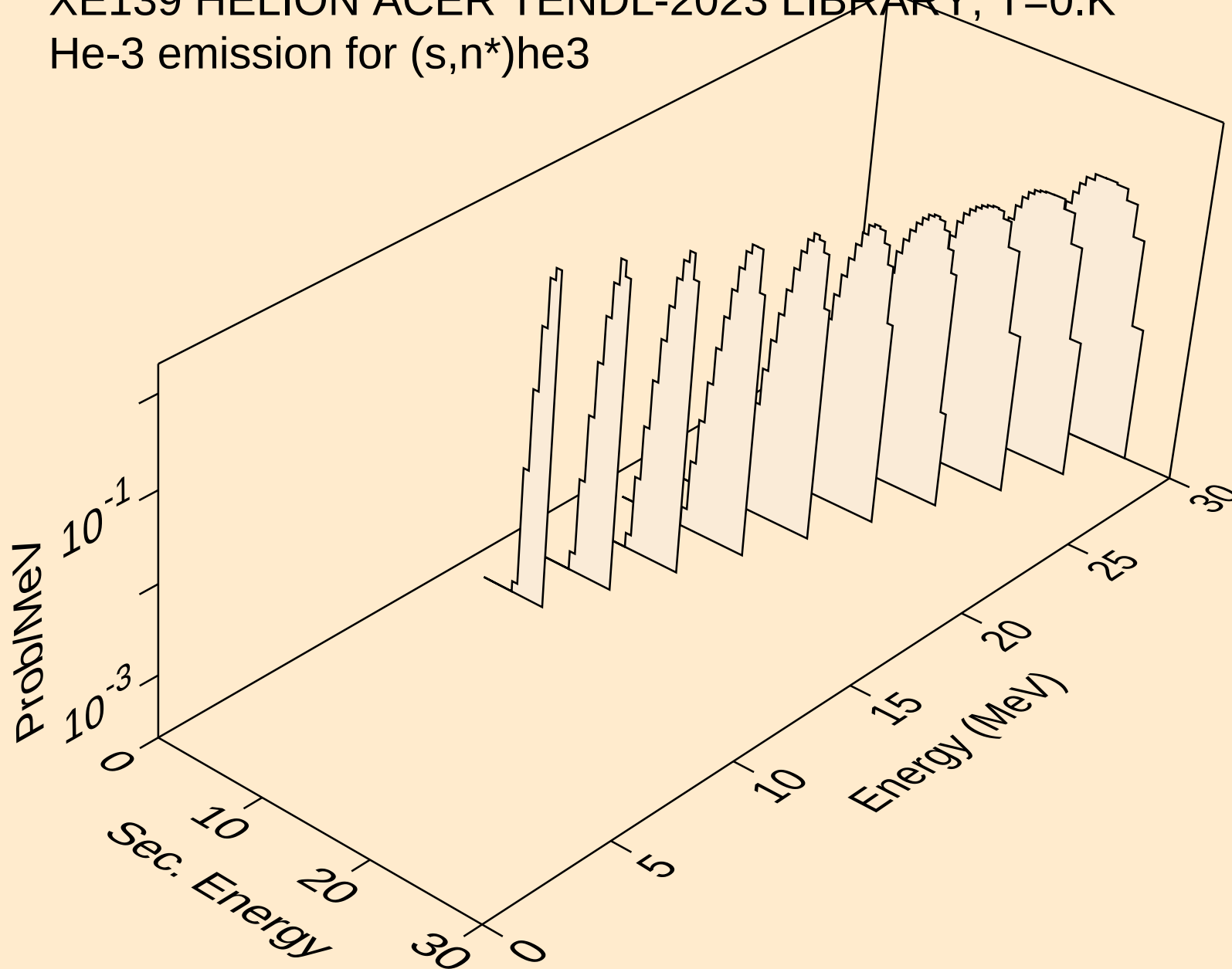
XE139 HELION ACER TENDL-2023 LIBRARY; T=0.K
angular distribution for elastic



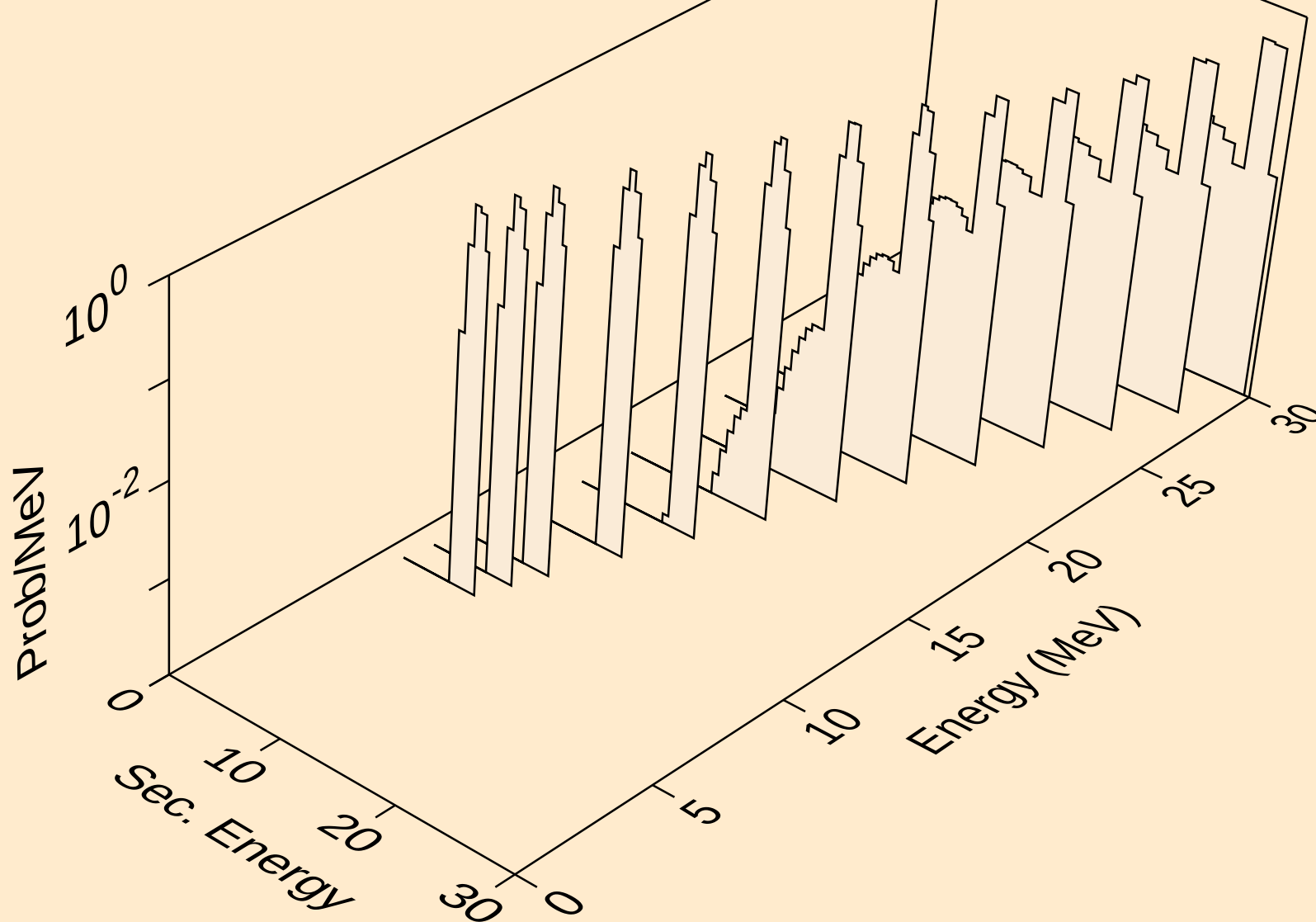
XE139 HELION ACER TENDL-2023 LIBRARY; T=0.K
He-3 emission for (s,x)



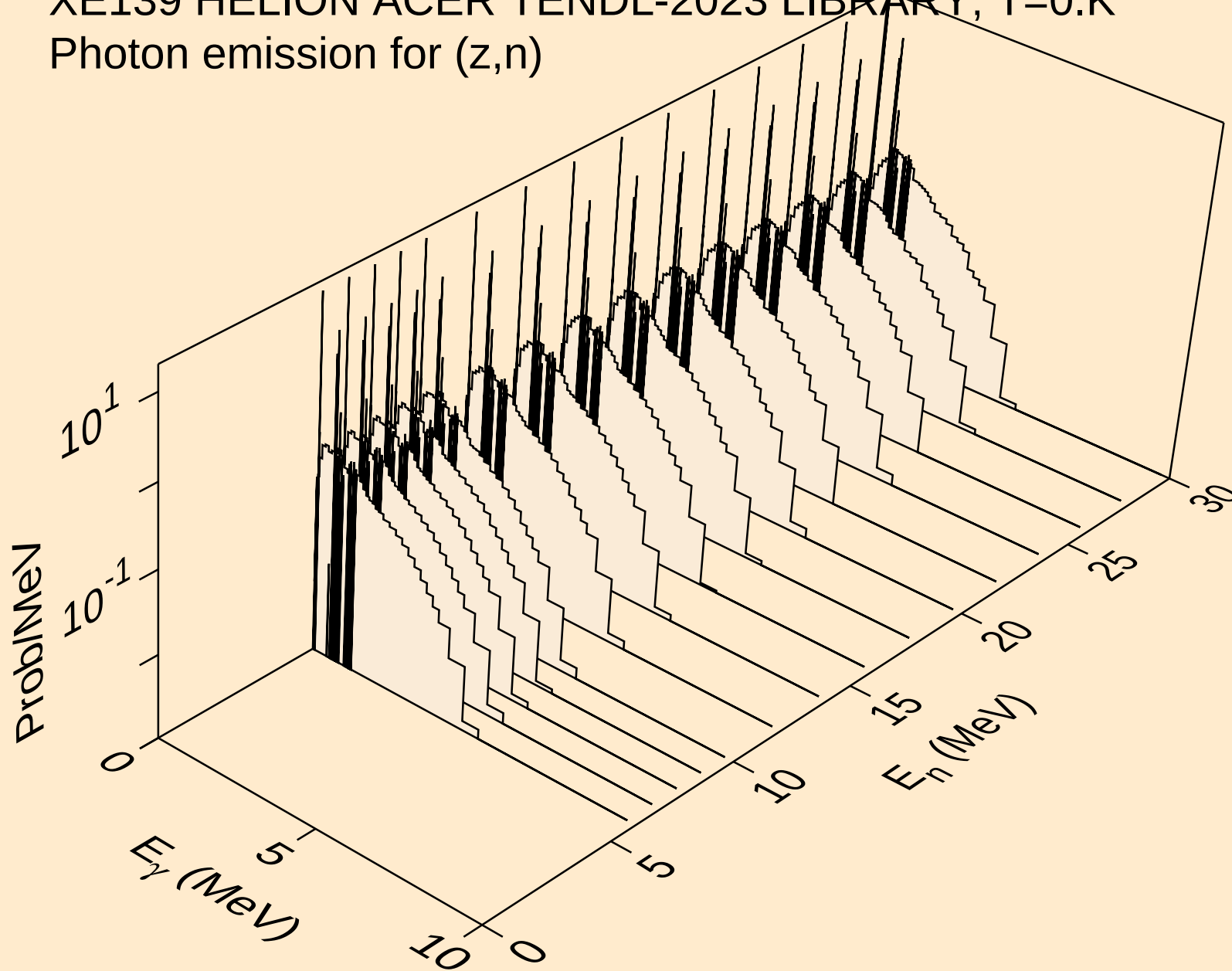
XE139 HELION ACER TENDL-2023 LIBRARY; T=0.K
He-3 emission for (s,n*)he3



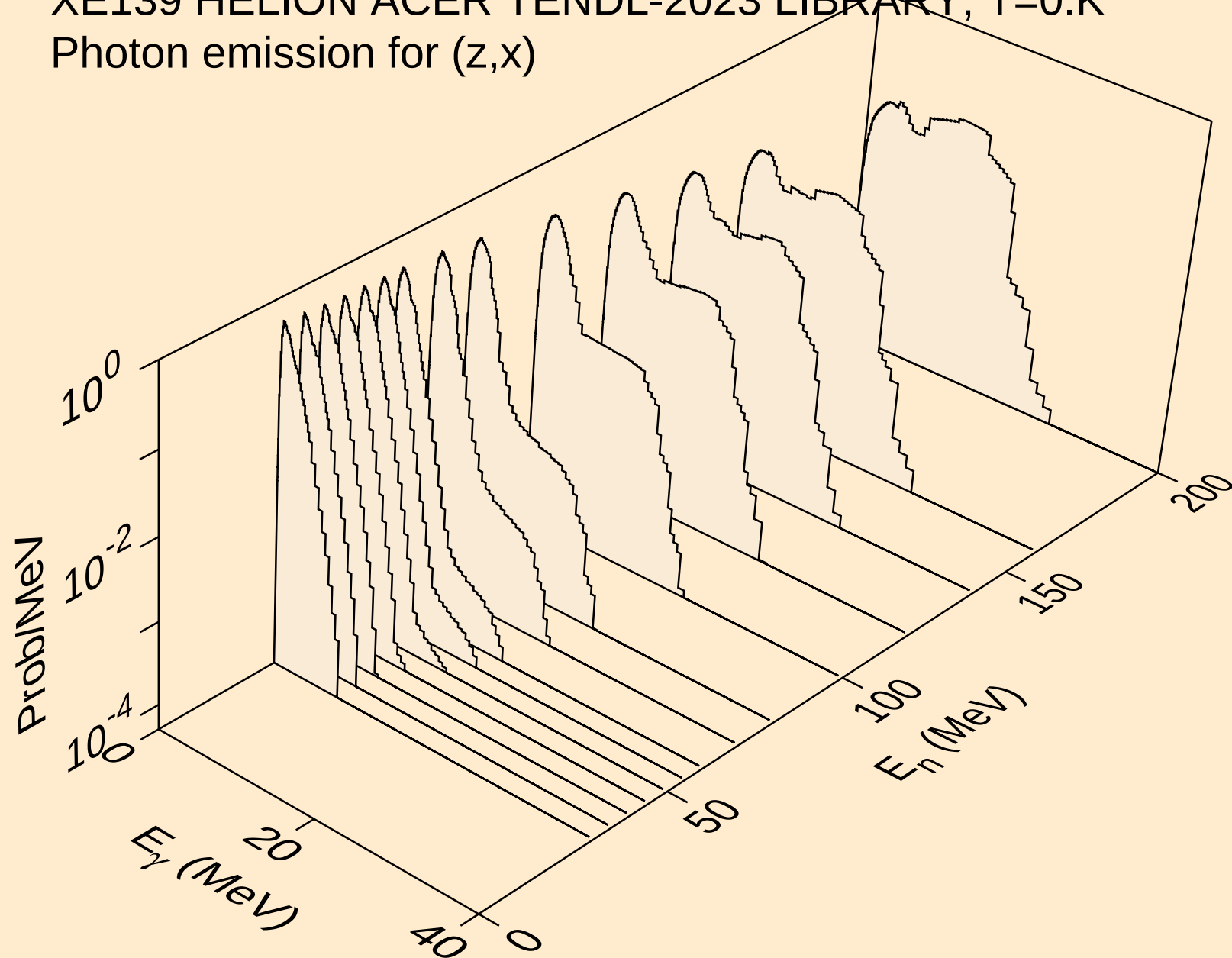
XE139 HELION ACER TENDL-2023 LIBRARY; T=0.K
He-3 emission for inelastic



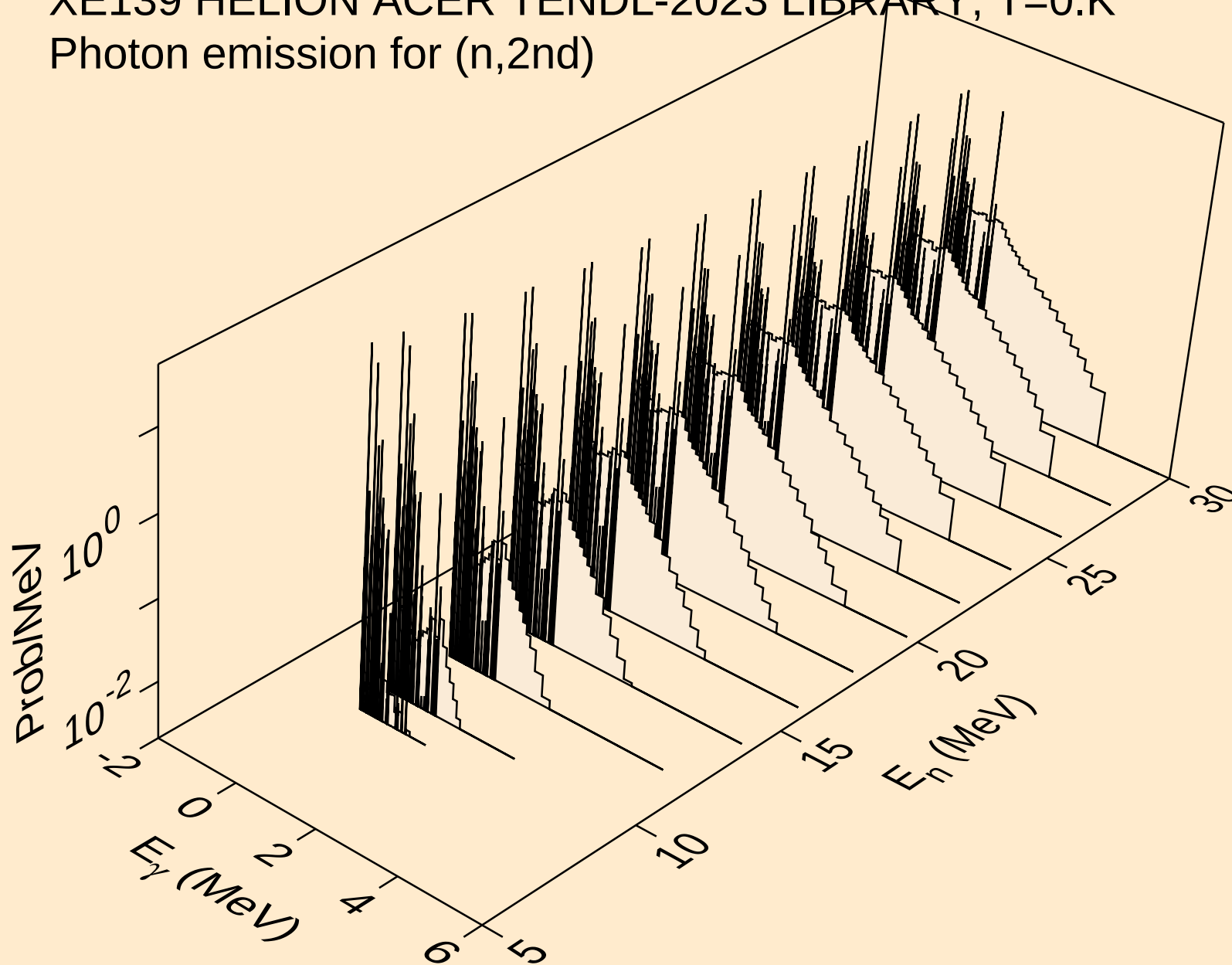
XE139 HELION ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (z,n)



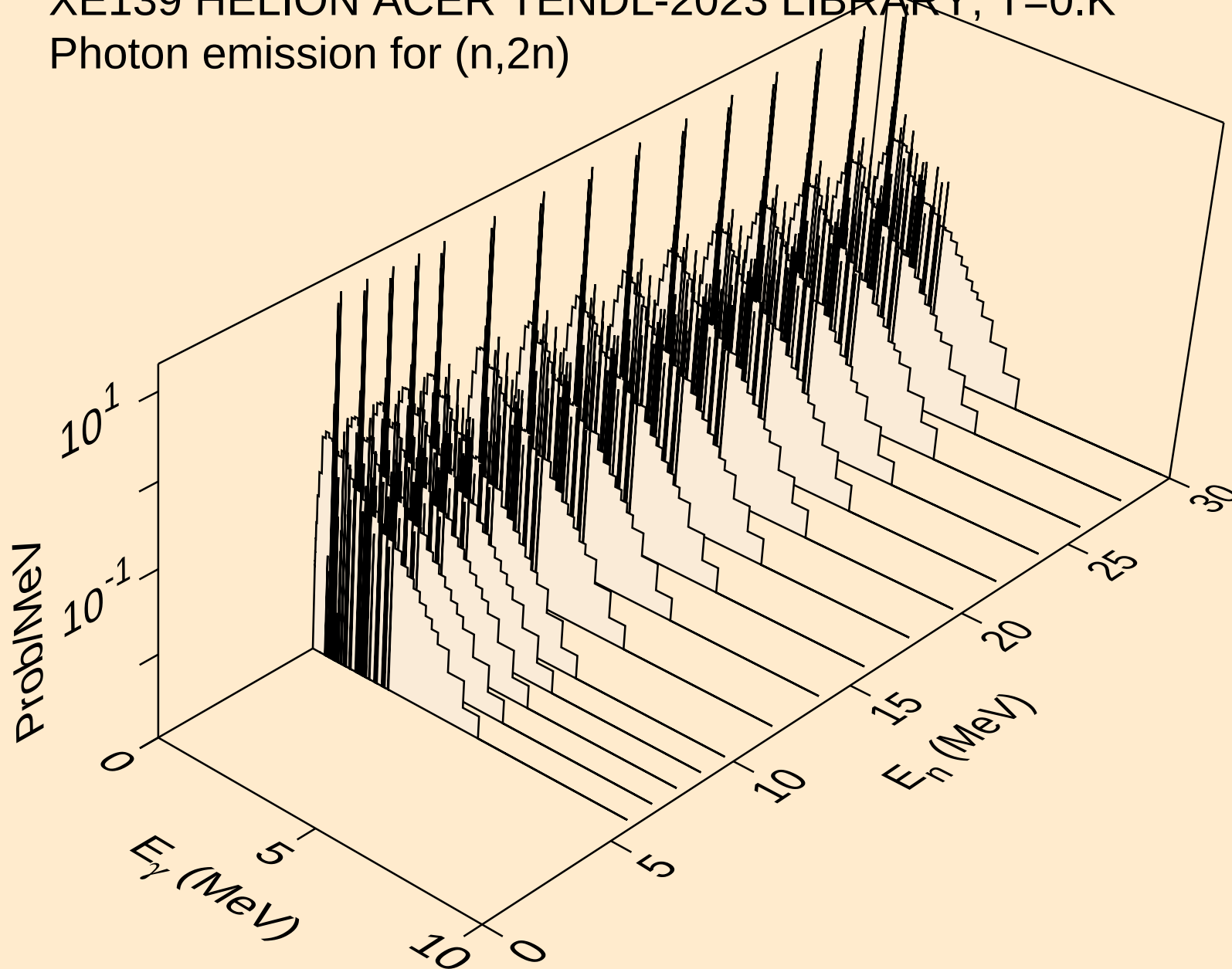
XE139 HELION ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (z,x)



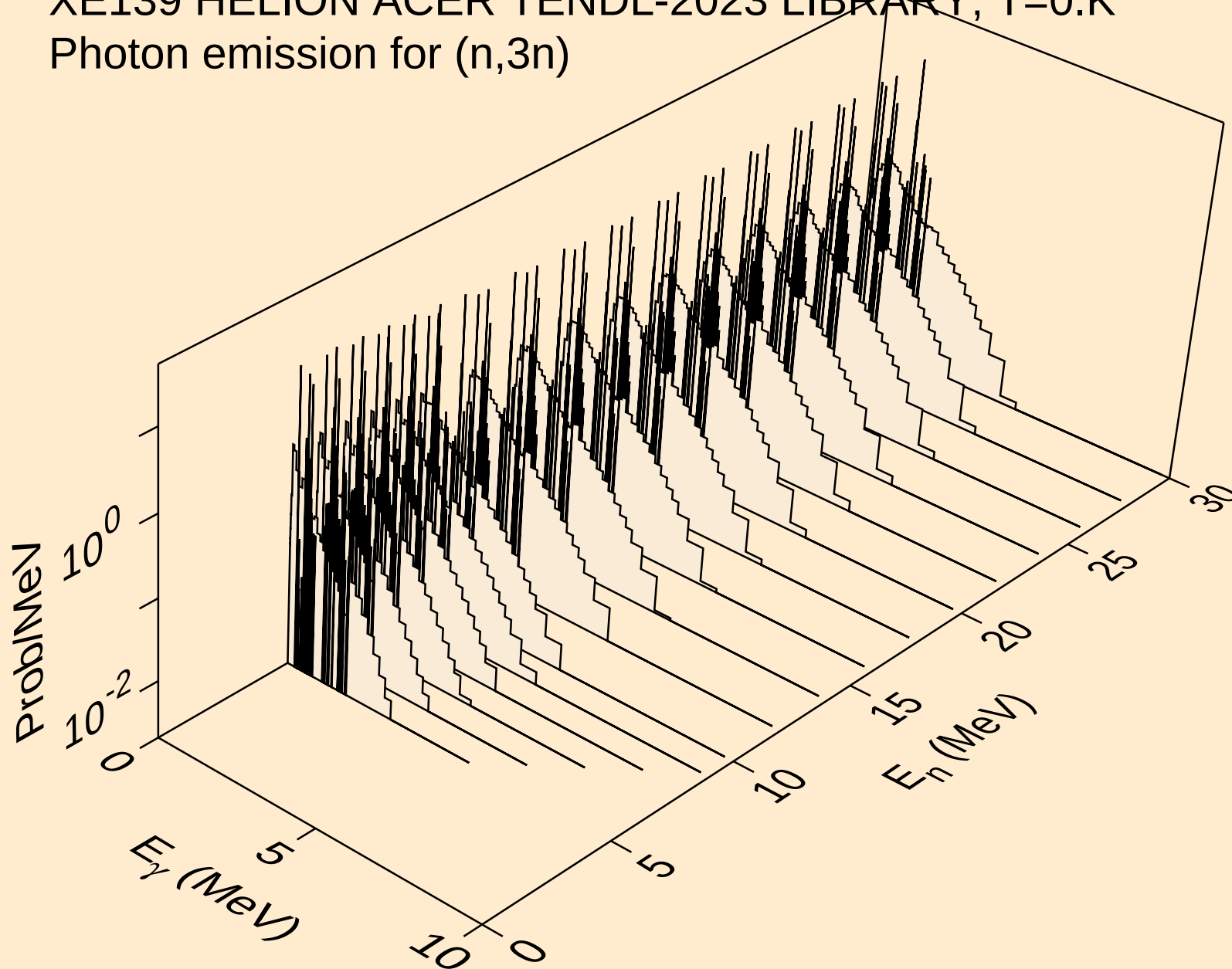
XE139 HELION ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,2nd)



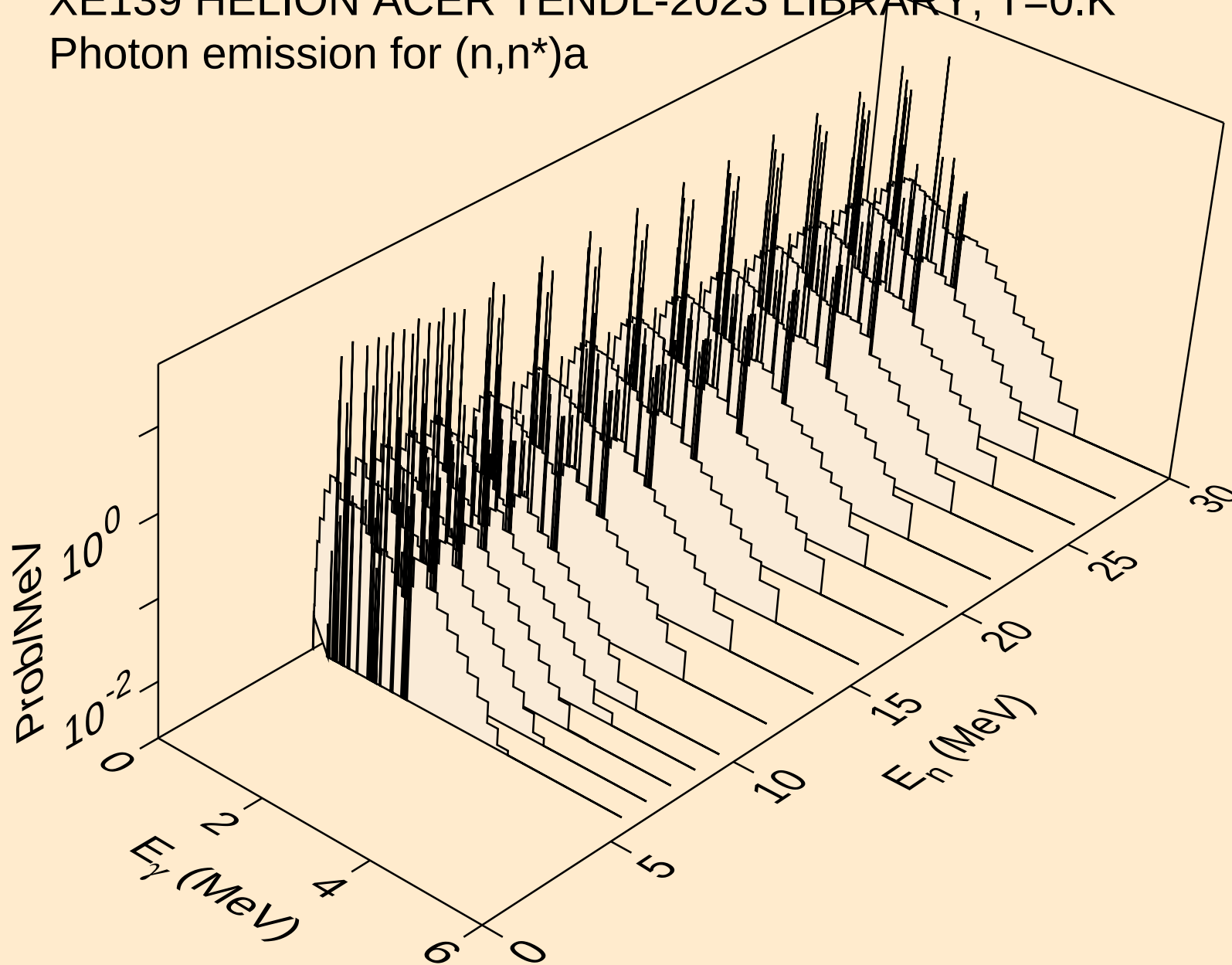
XE139 HELION ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,2n)



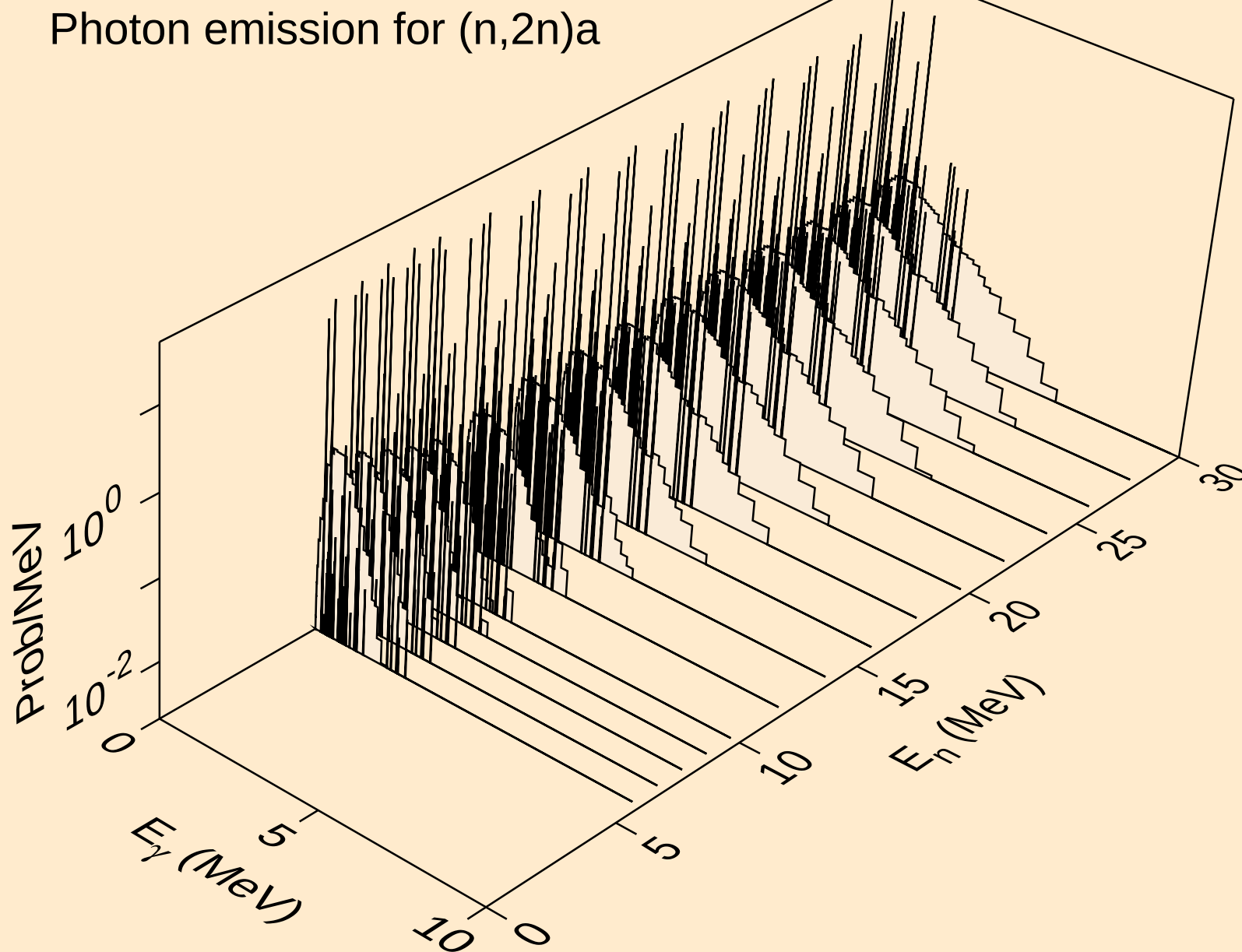
XE139 HELION ACER TENDL-2023 LIBRARY; $T=0.K$
Photon emission for (n,3n)



XE139 HELION ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,n*)a

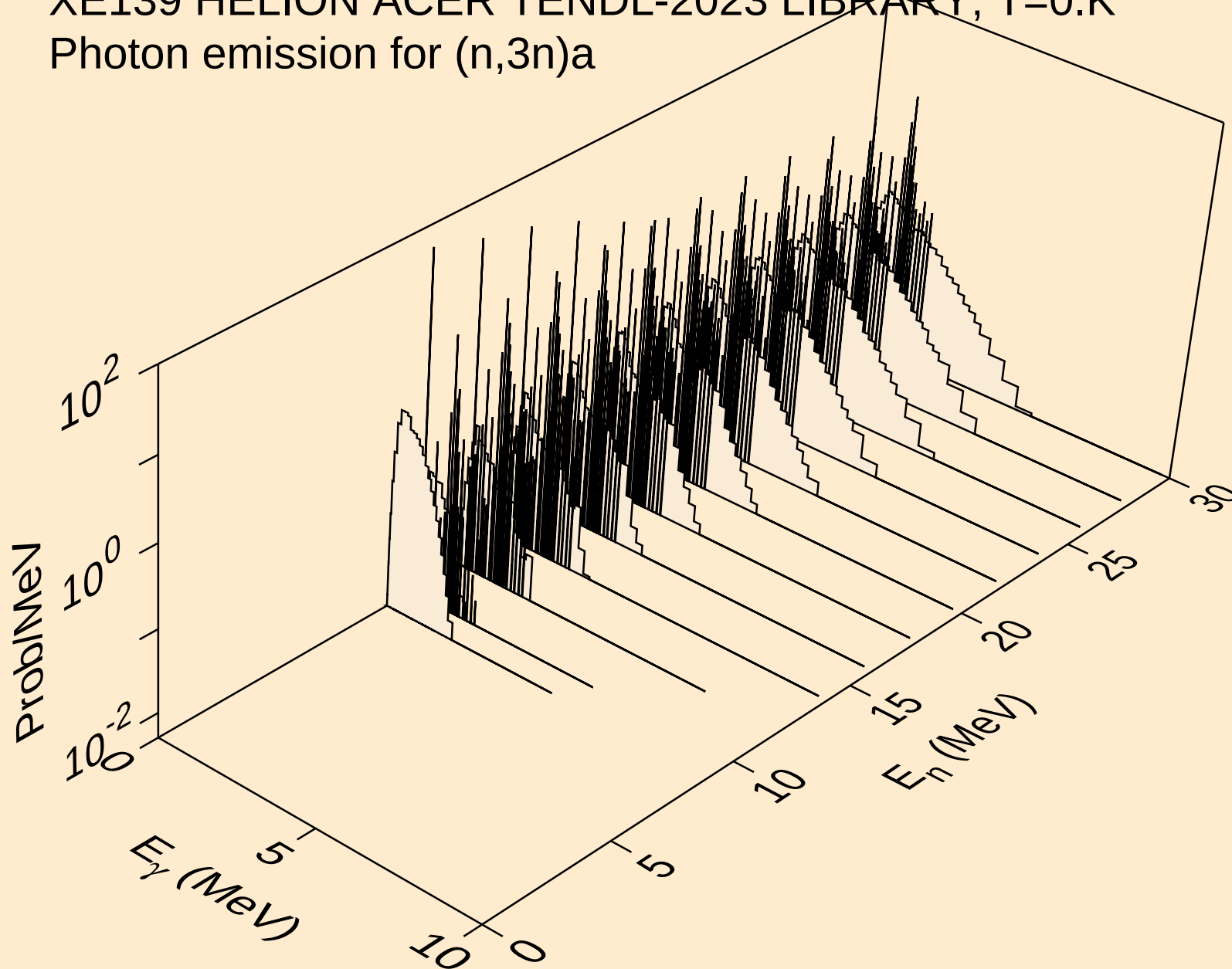


XE139 HELION ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,2n)a

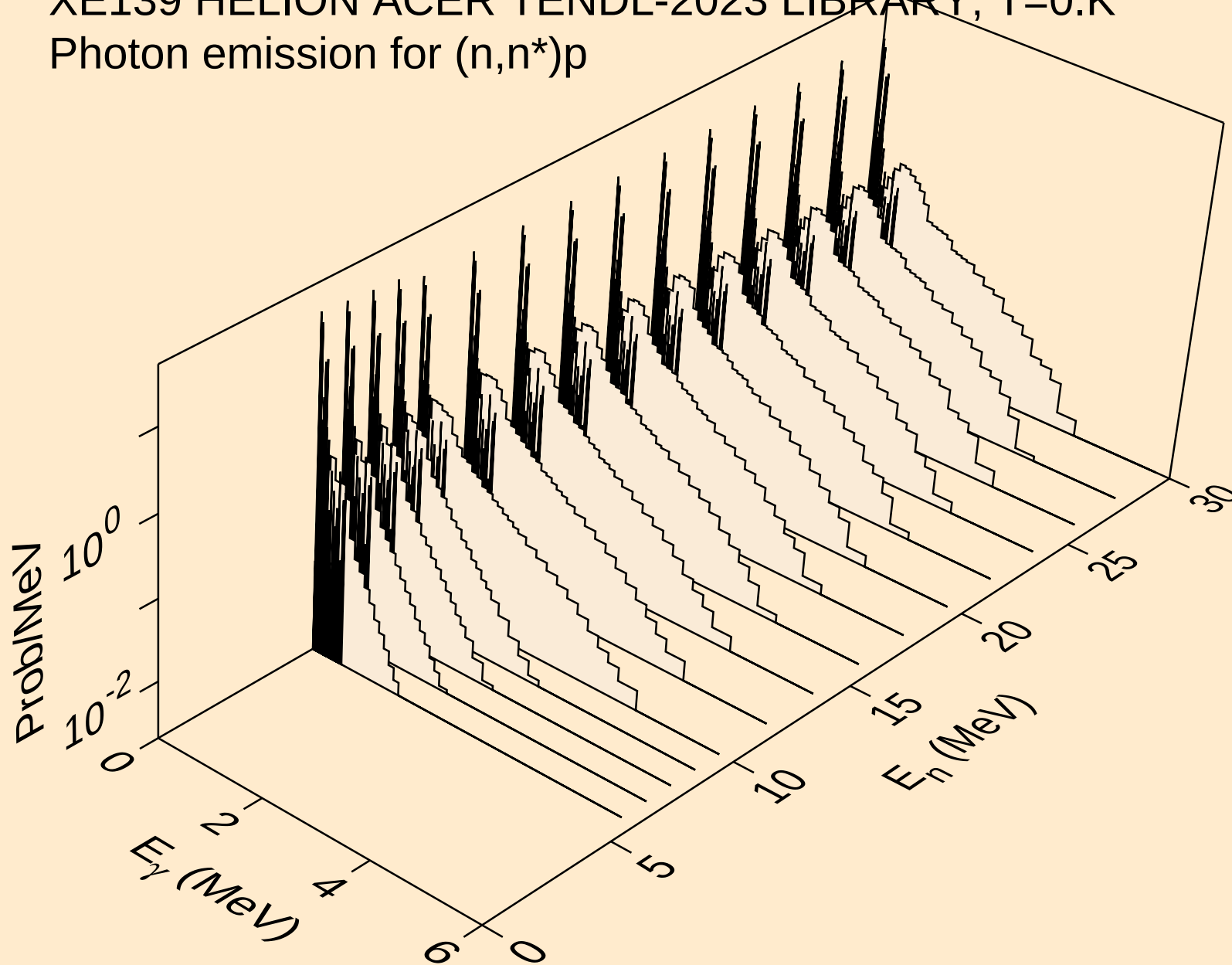


XE139 HELION ACER TENDL-2023 LIBRARY; T=0.K

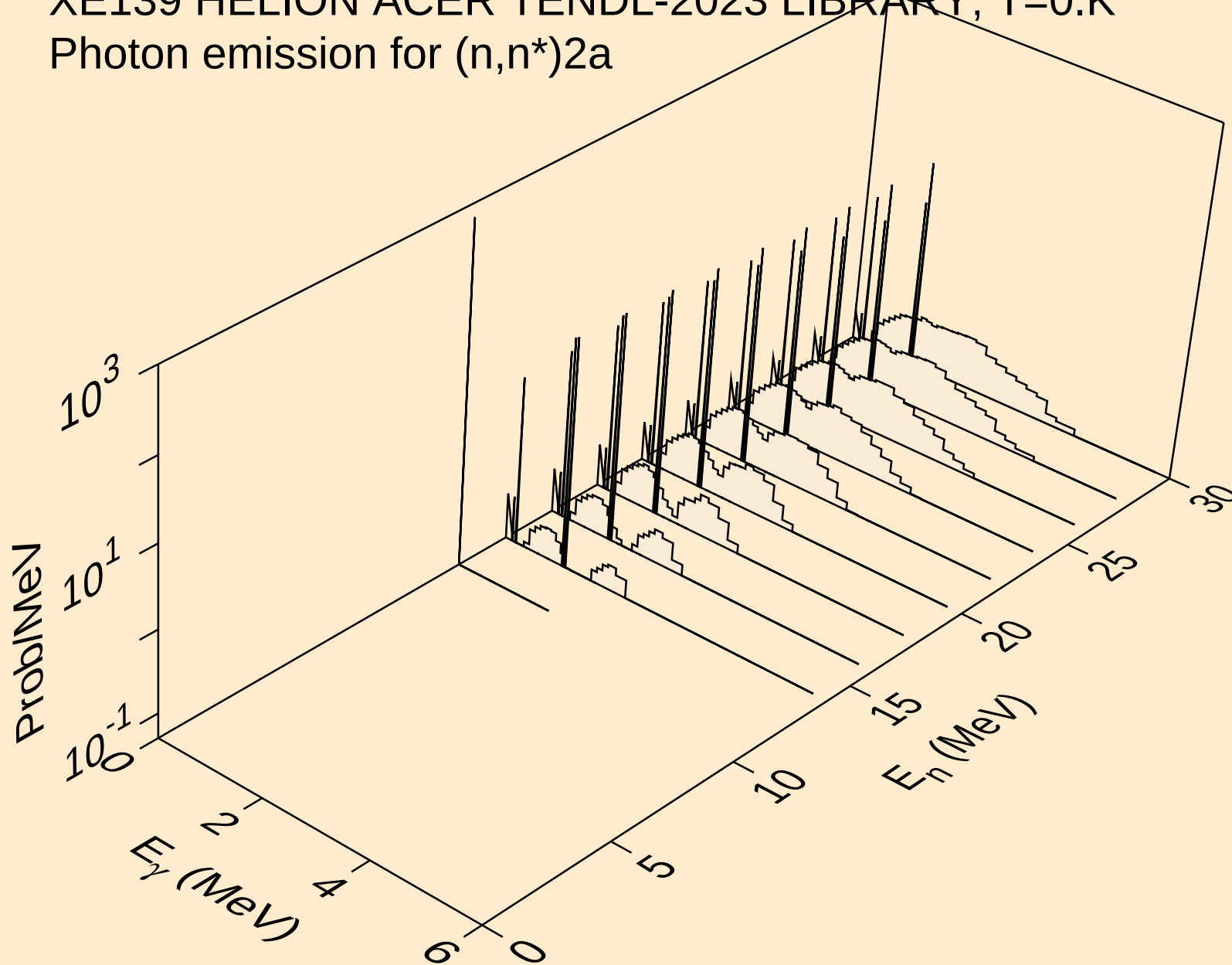
Photon emission for (n,3n) α



XE139 HELION ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,n*)p

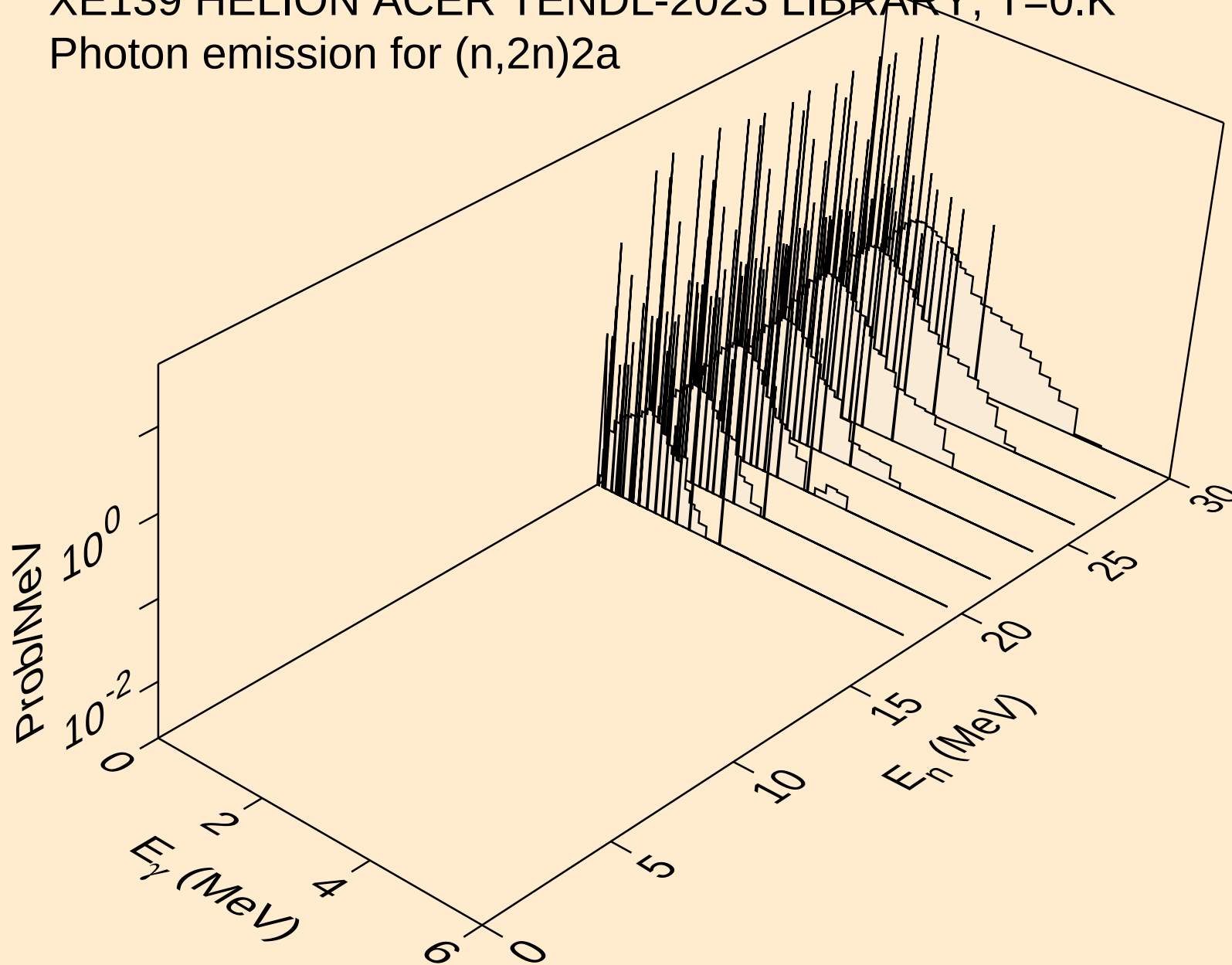


XE139 HELION ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,n*)2a

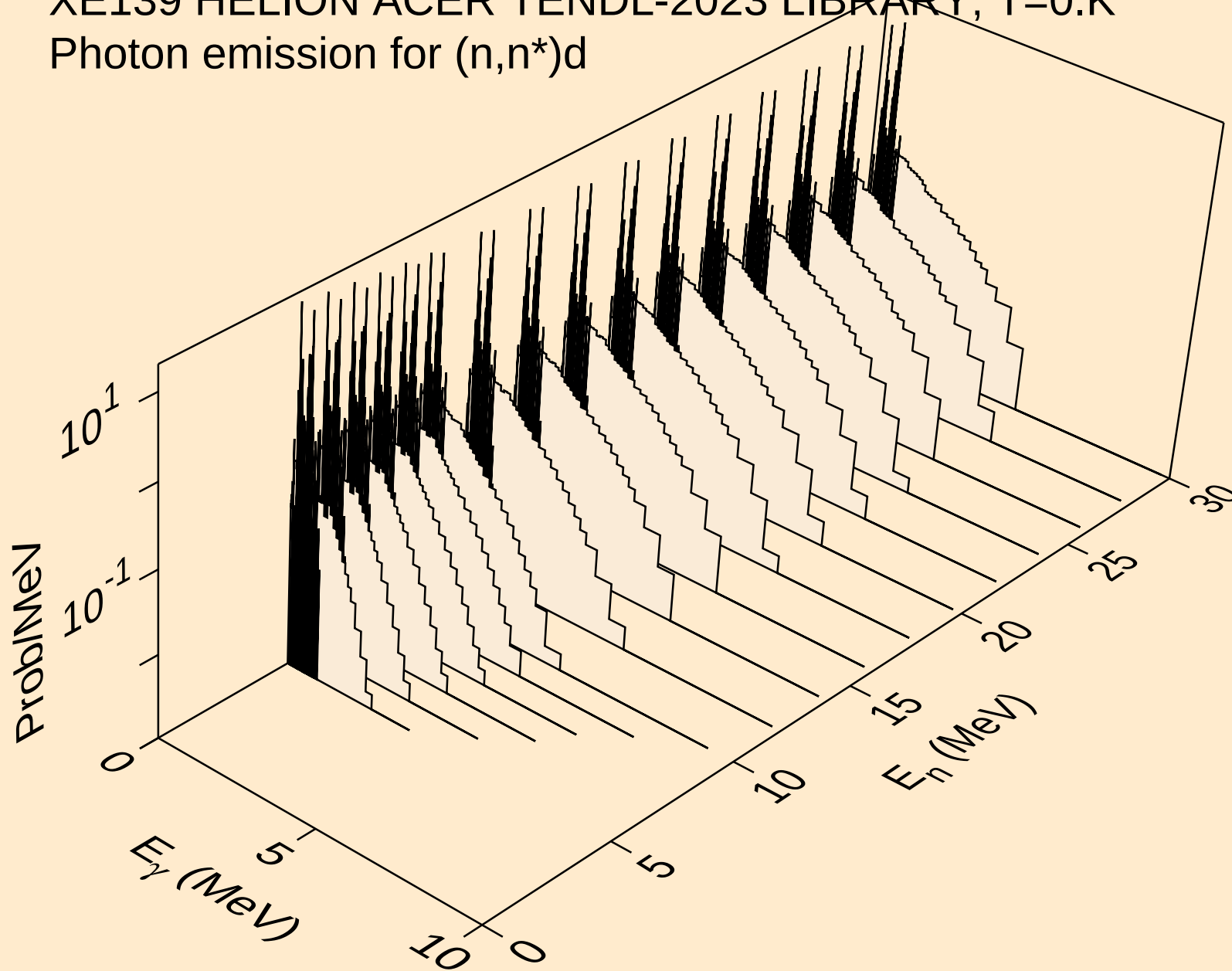


XE139 HELION ACER TENDL-2023 LIBRARY; T=0.K

Photon emission for (n,2n)2a

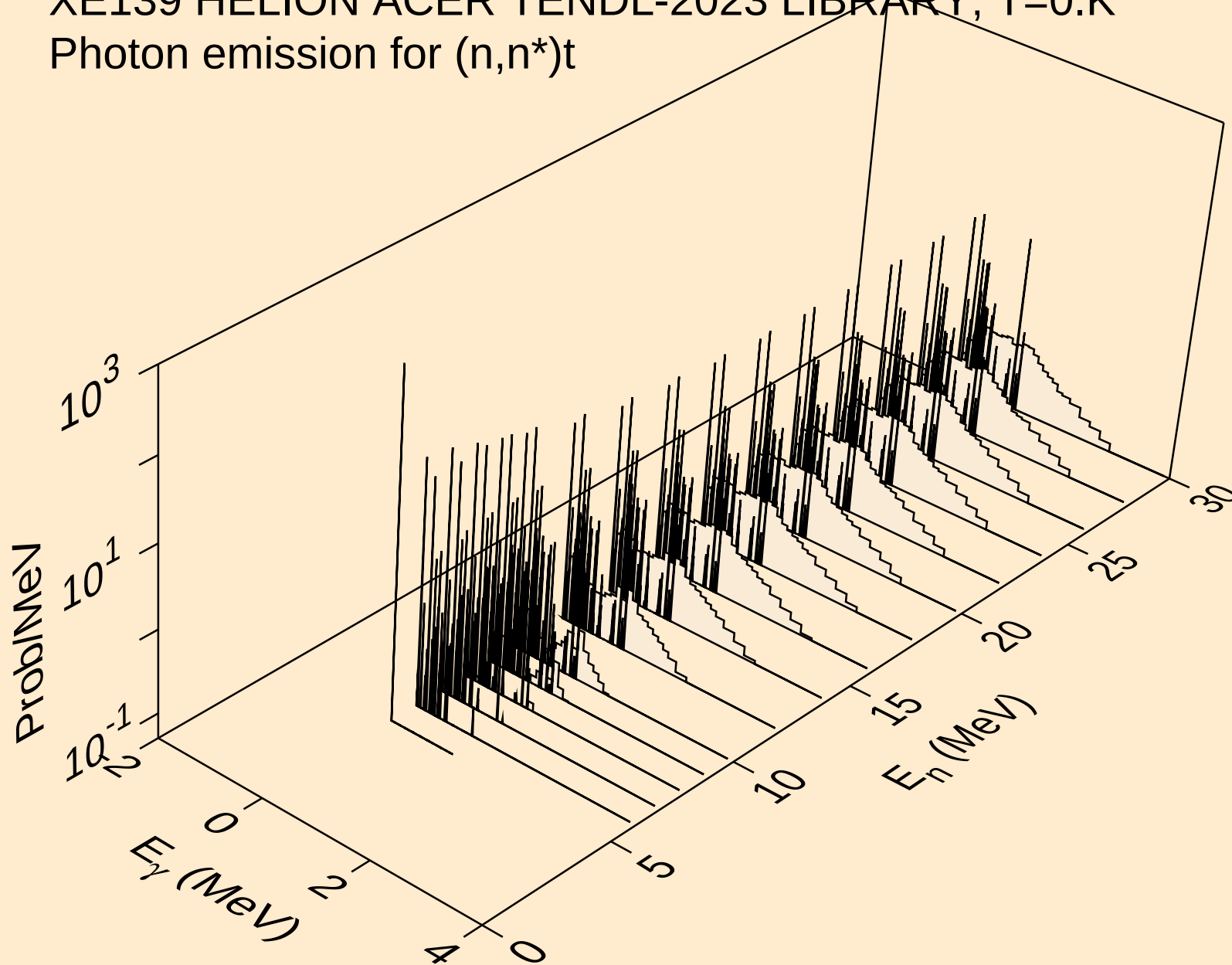


XE139 HELION ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,n*)d

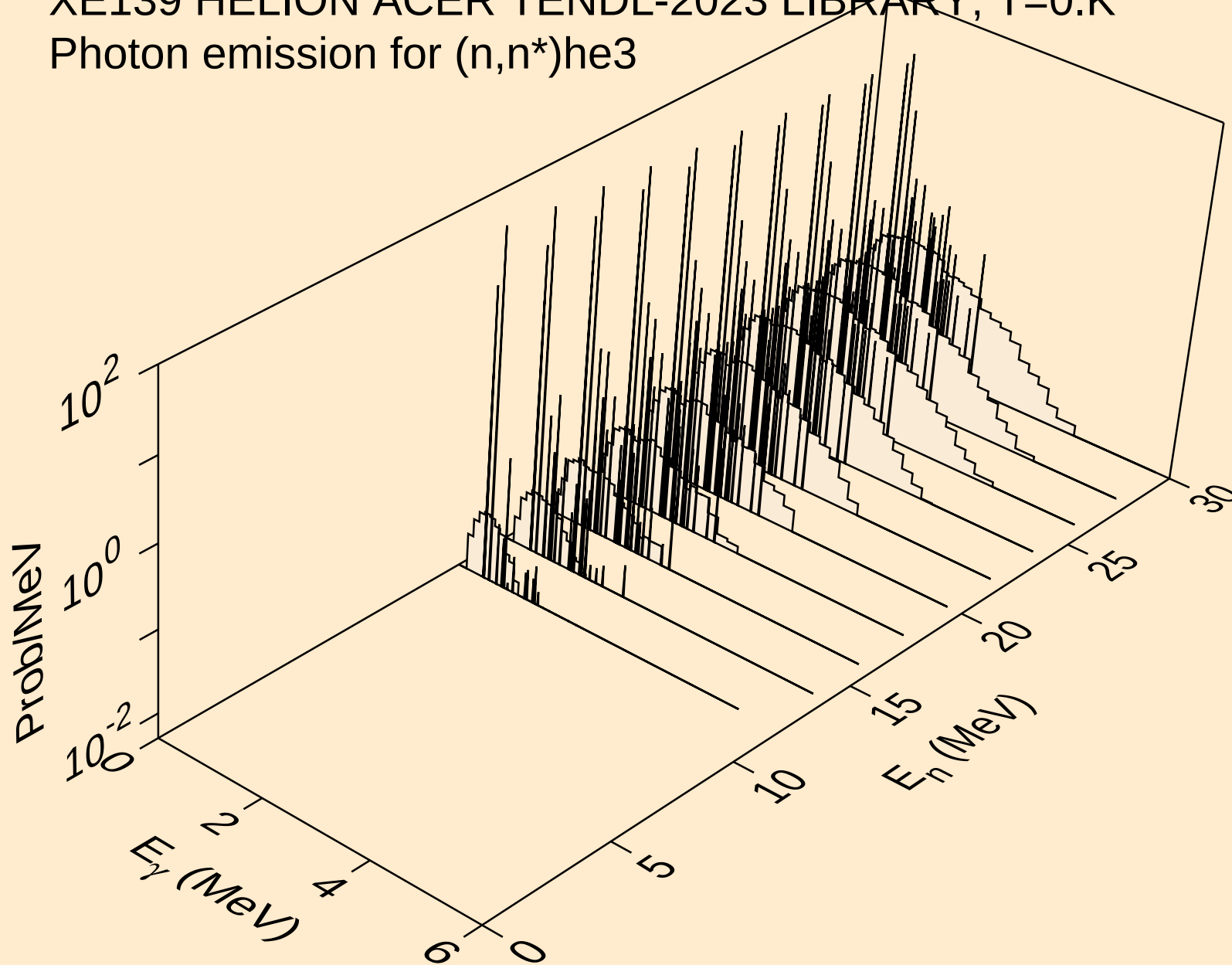


XE139 HELION ACER TENDL-2023 LIBRARY; T=0.K

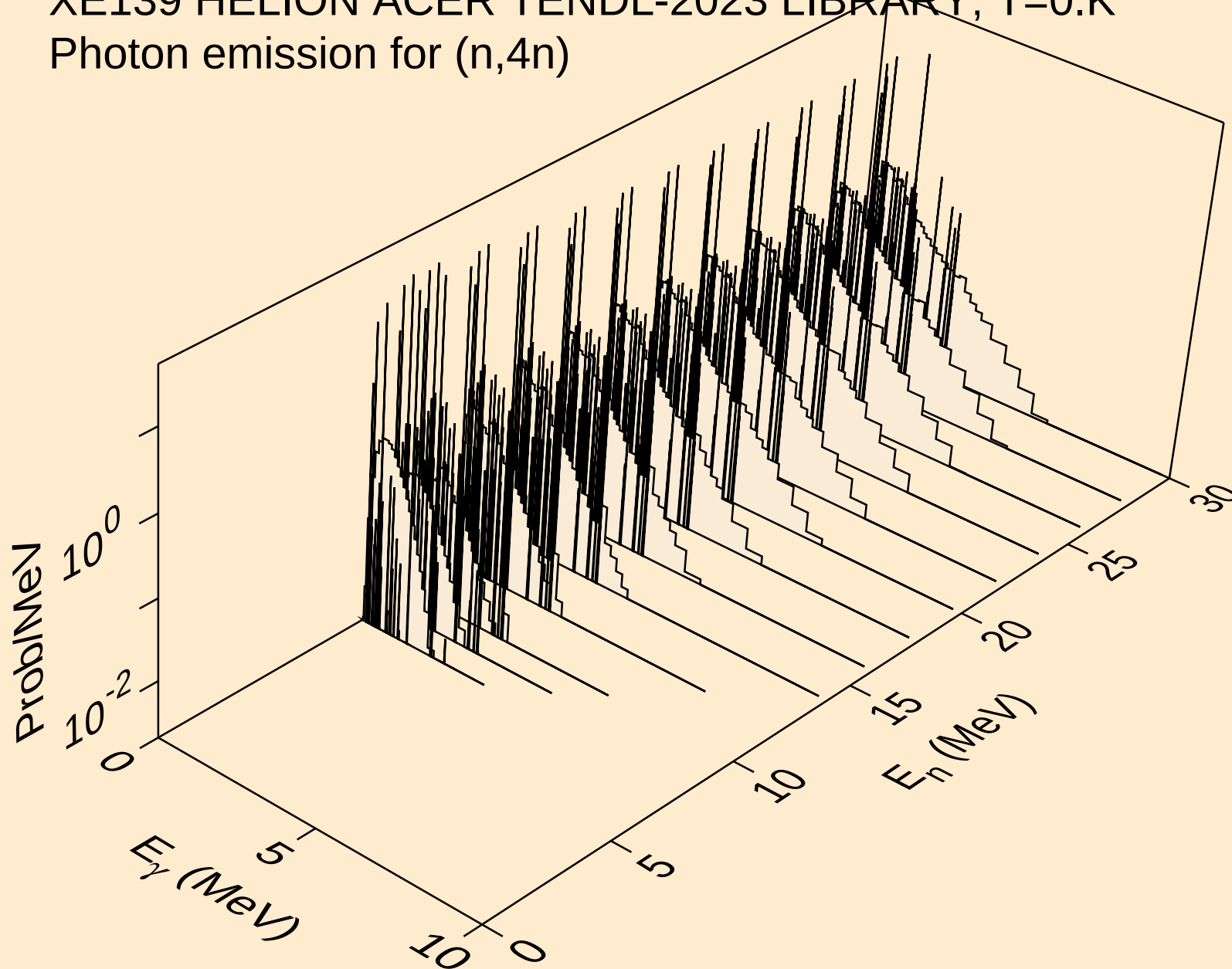
Photon emission for (n,n*)t



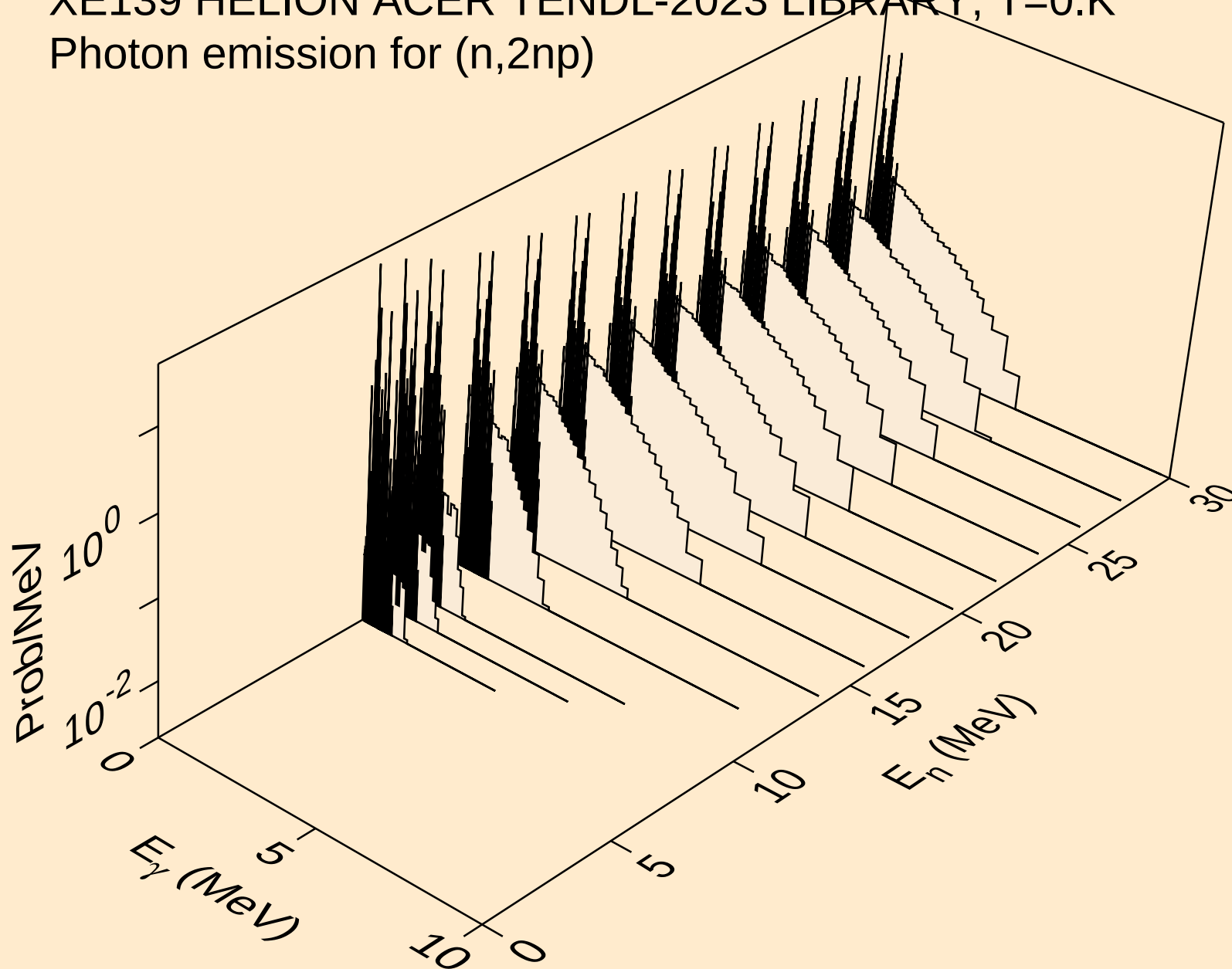
XE139 HELION ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,n*)he3



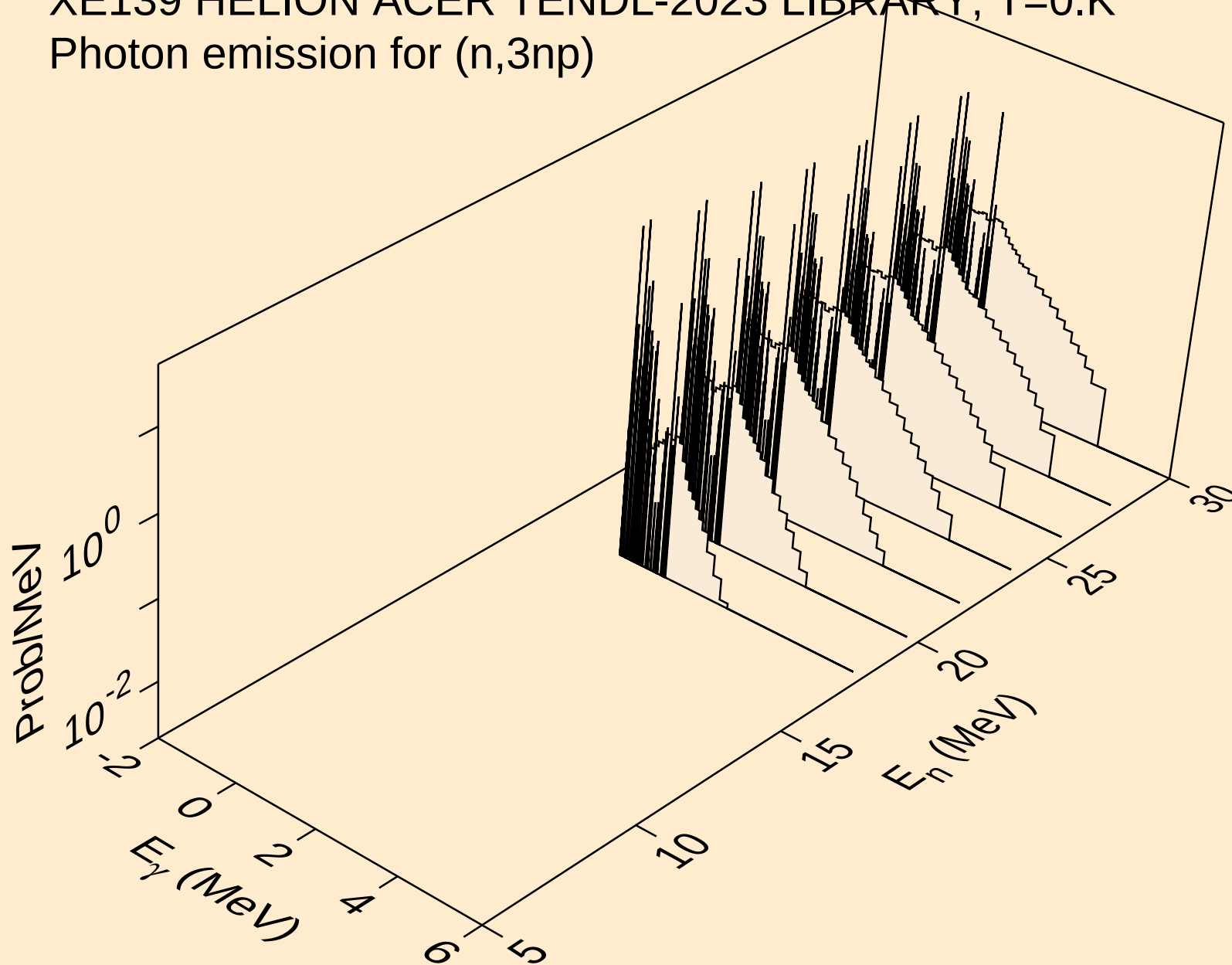
XE139 HELION ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,4n)



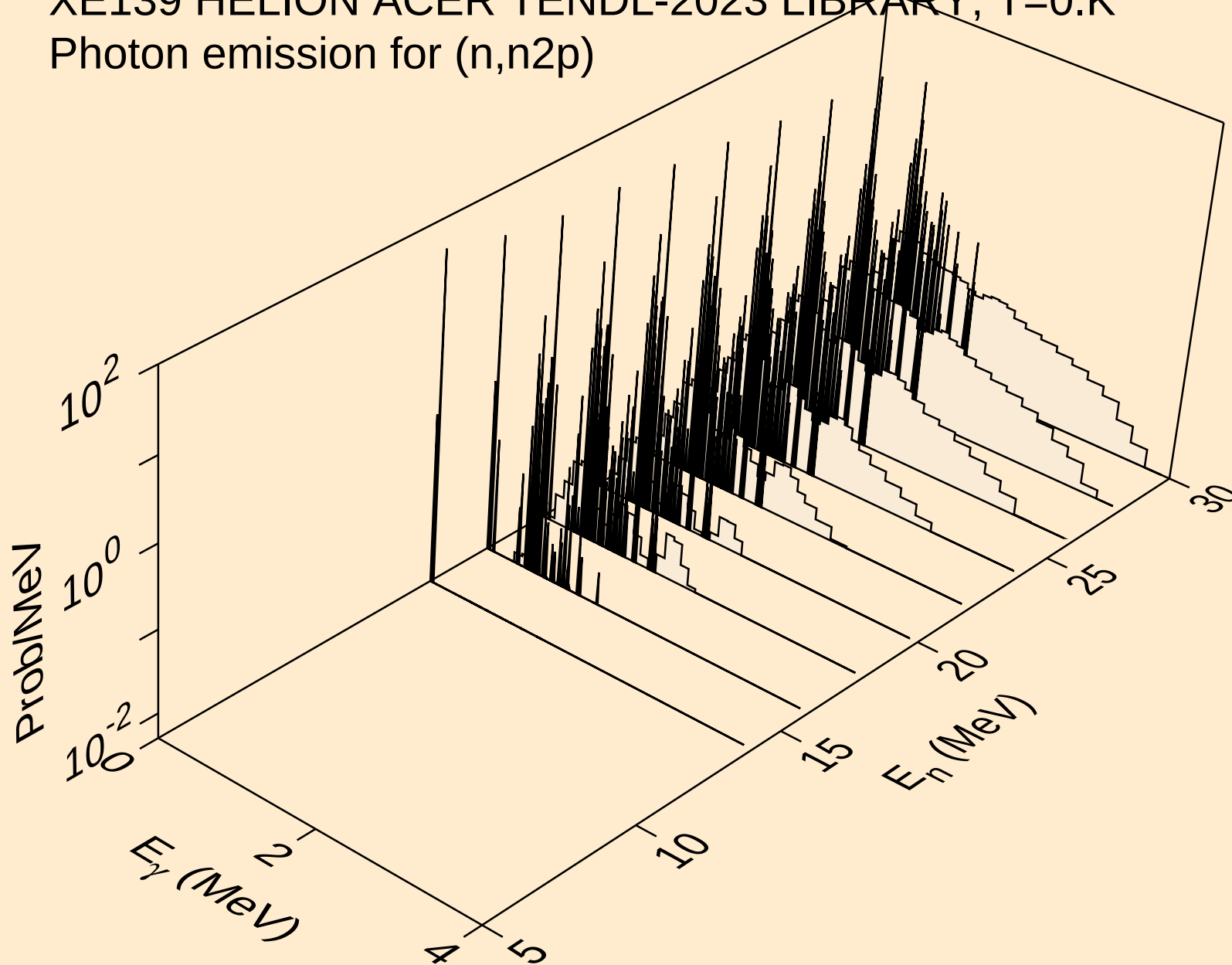
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Photon emission for (n,2np)



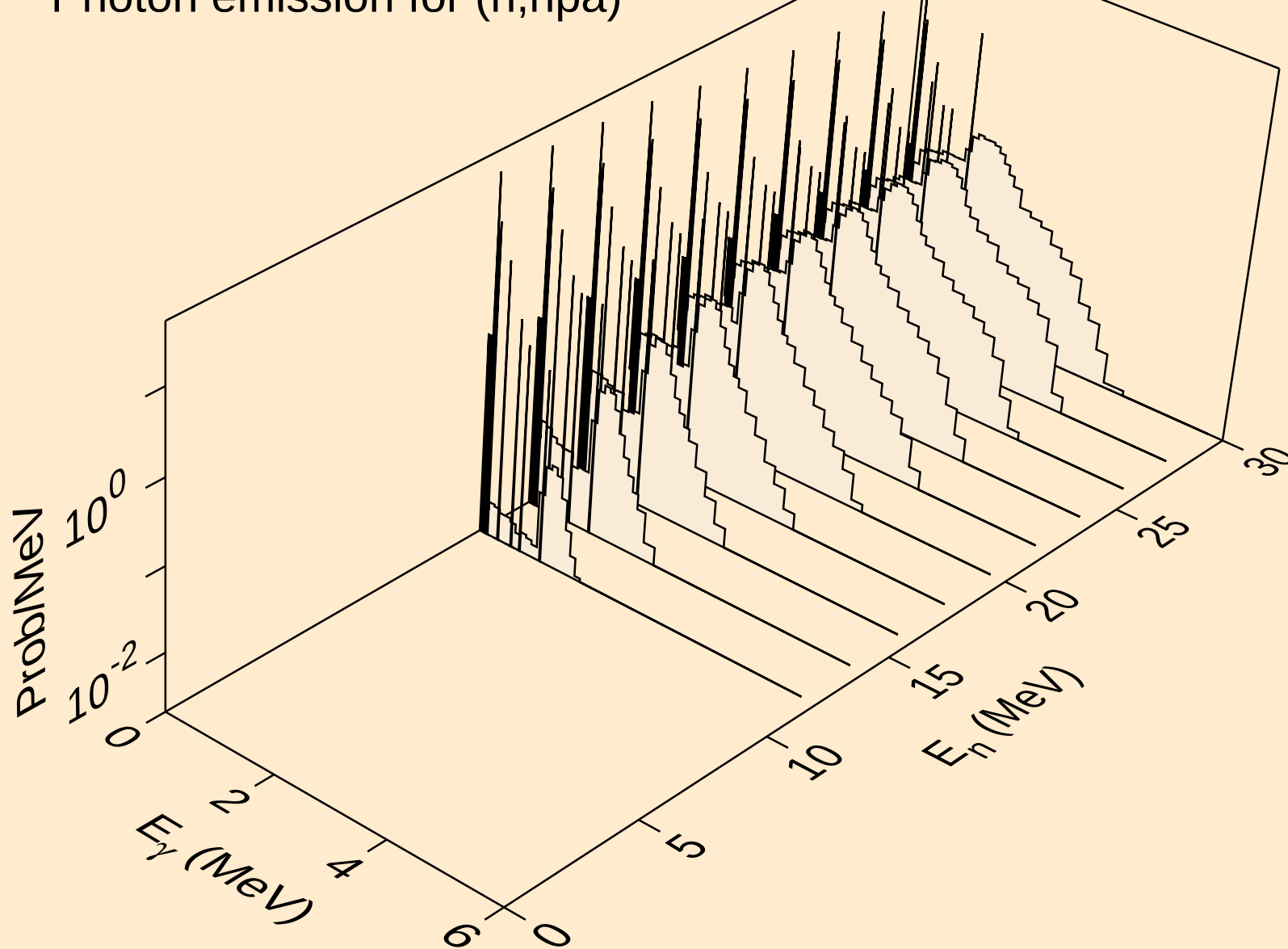
XE139 HELION ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,3np)



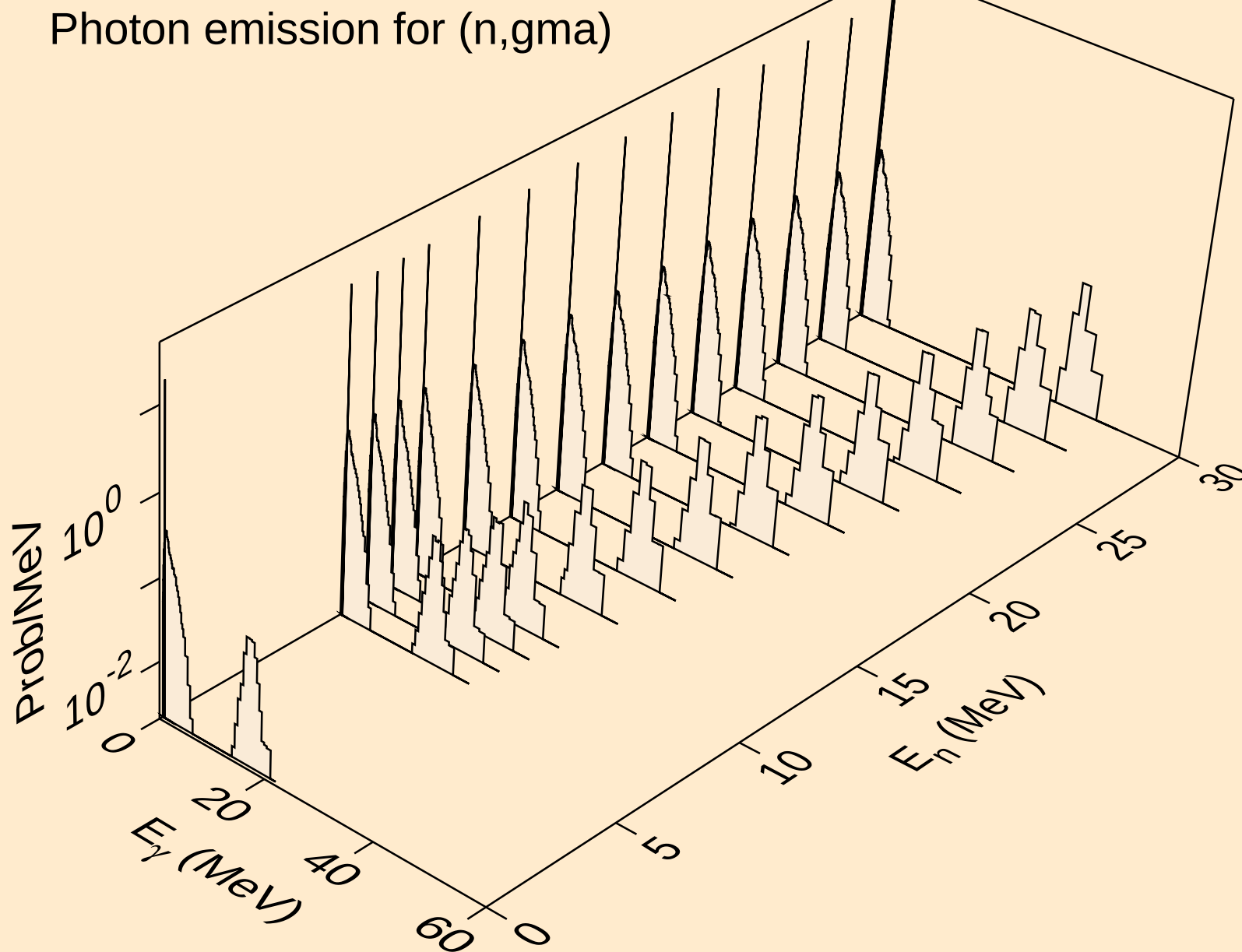
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Photon emission for (n,n2p)



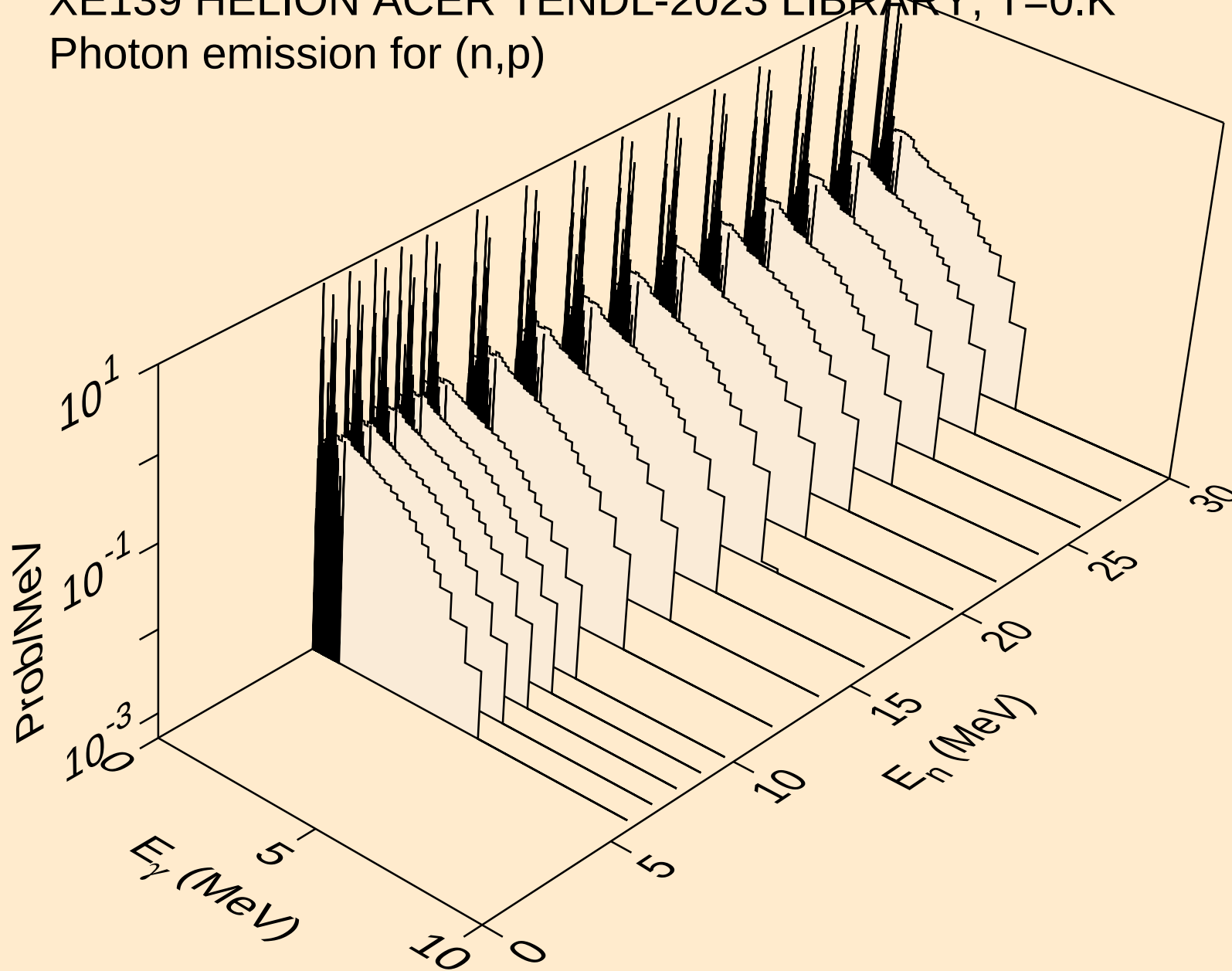
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Photon emission for (n,npa)



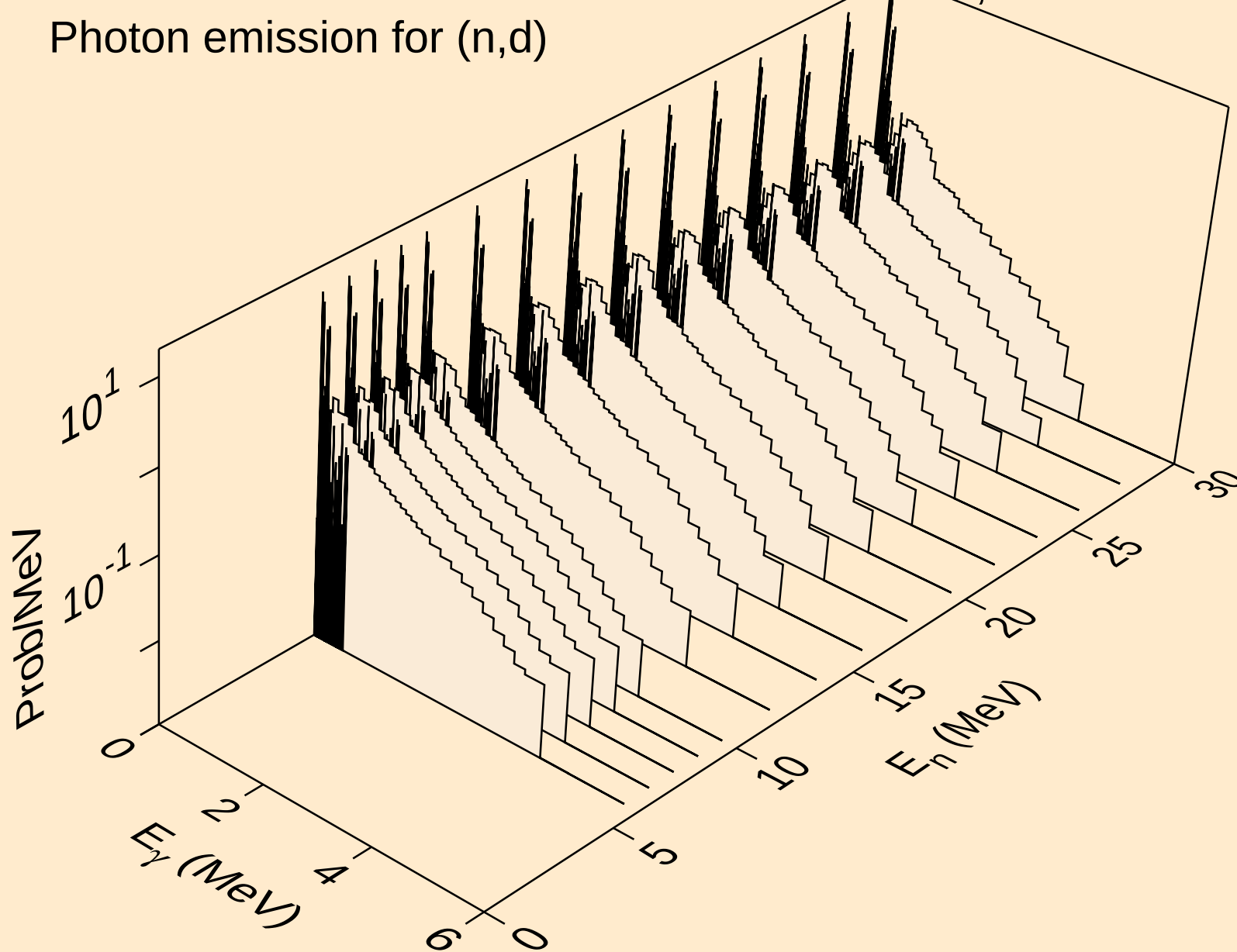
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Photon emission for (n,gma)



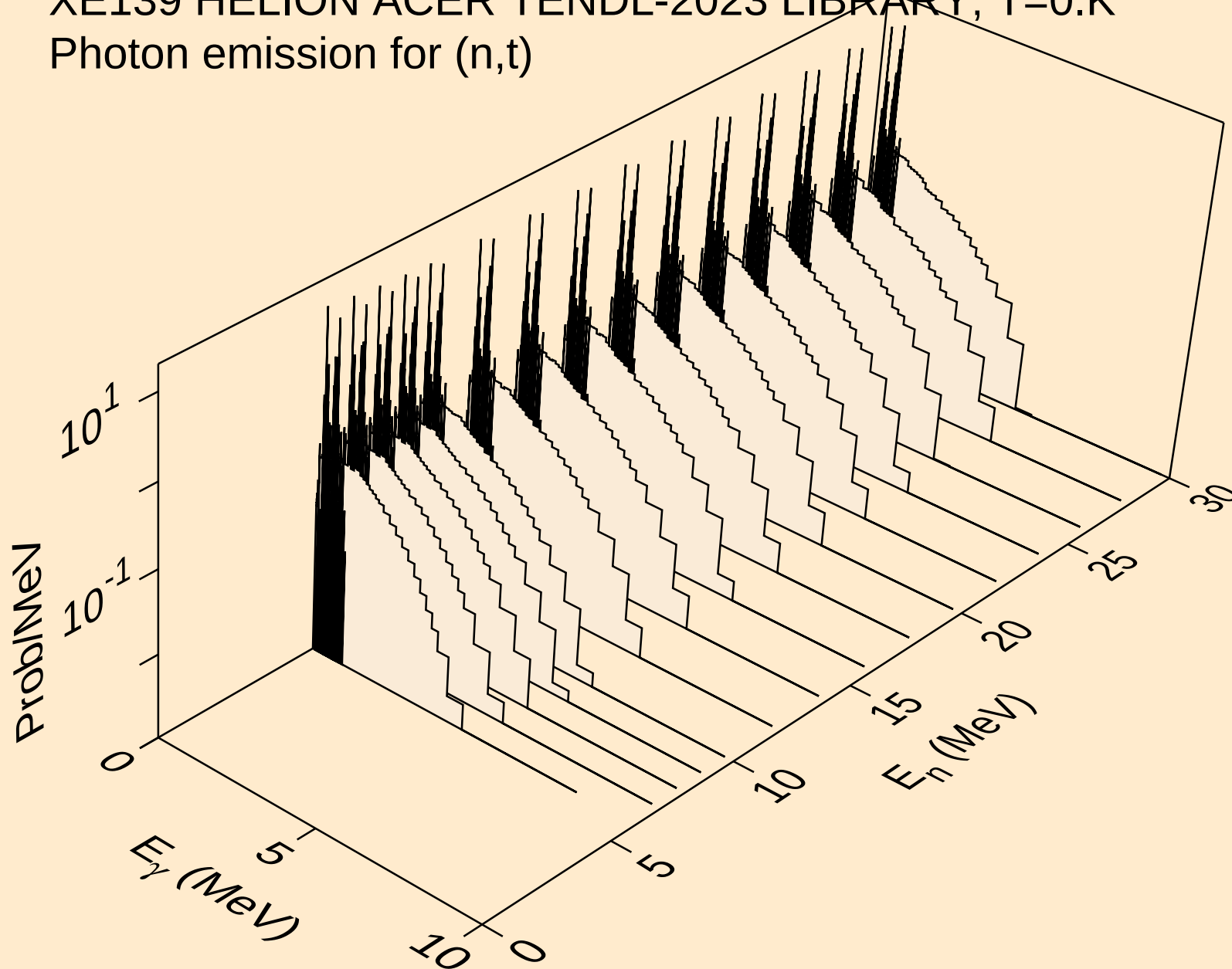
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Photon emission for (n,p)



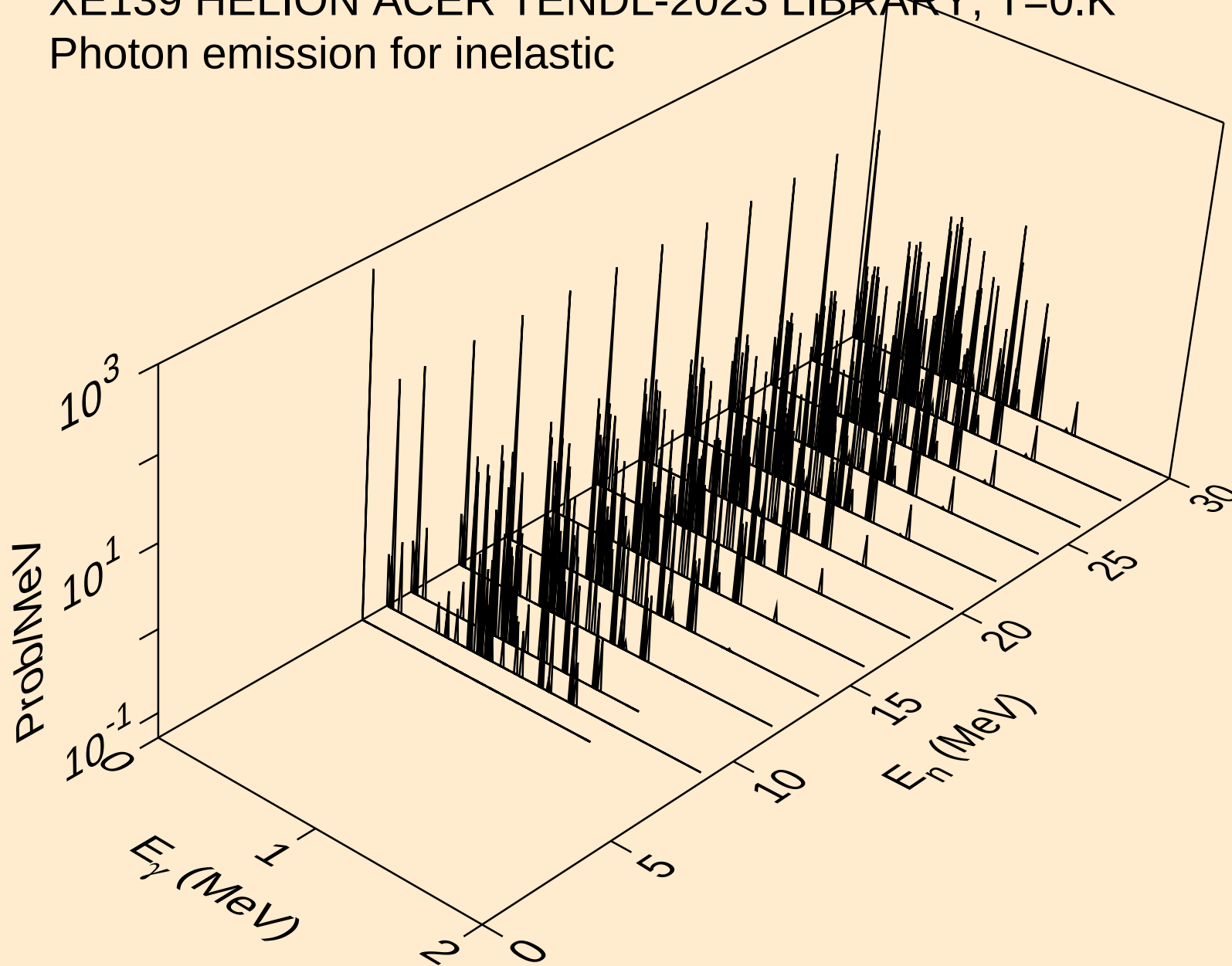
XE139 HELION ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,d)



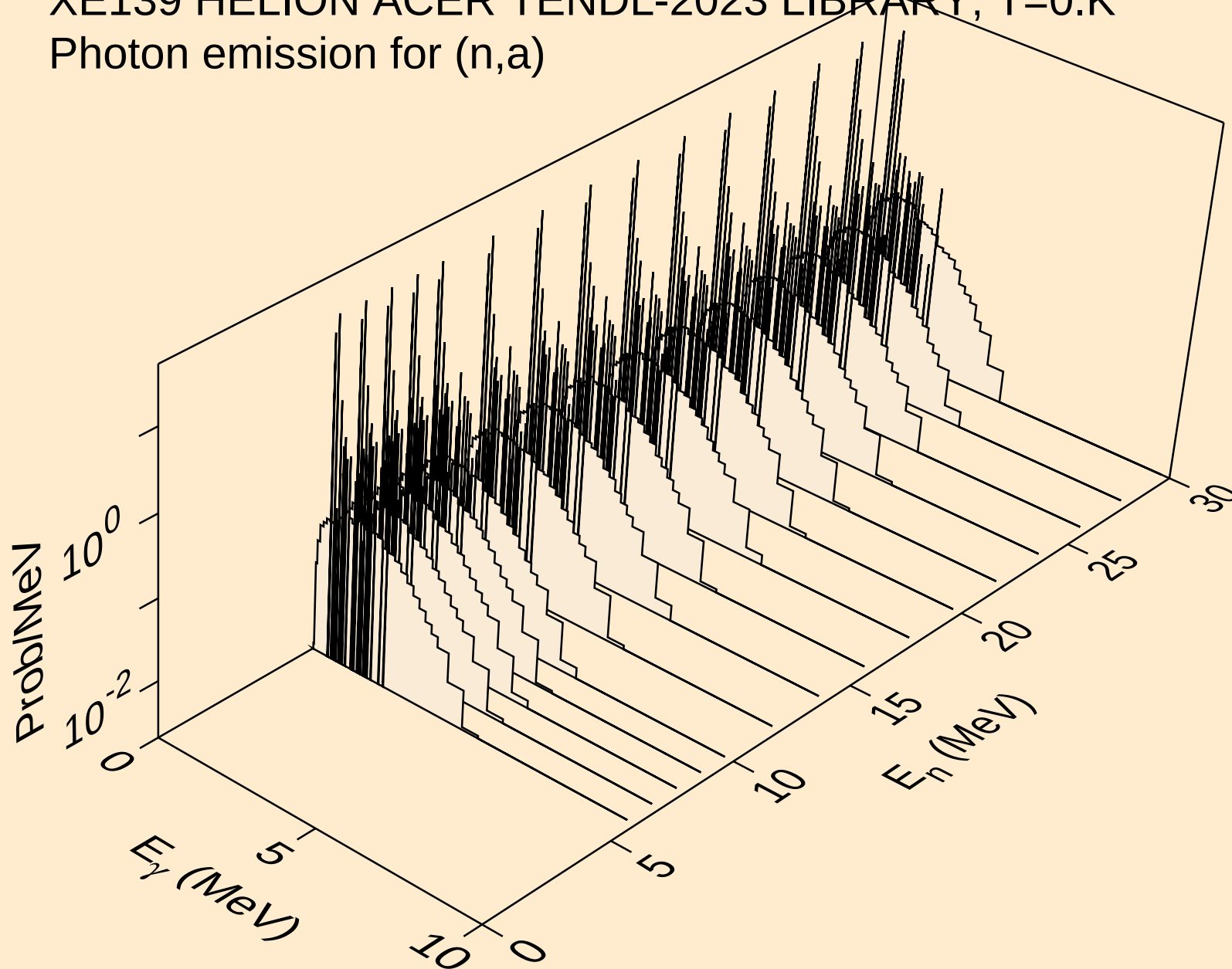
XE139 HELION ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,t)



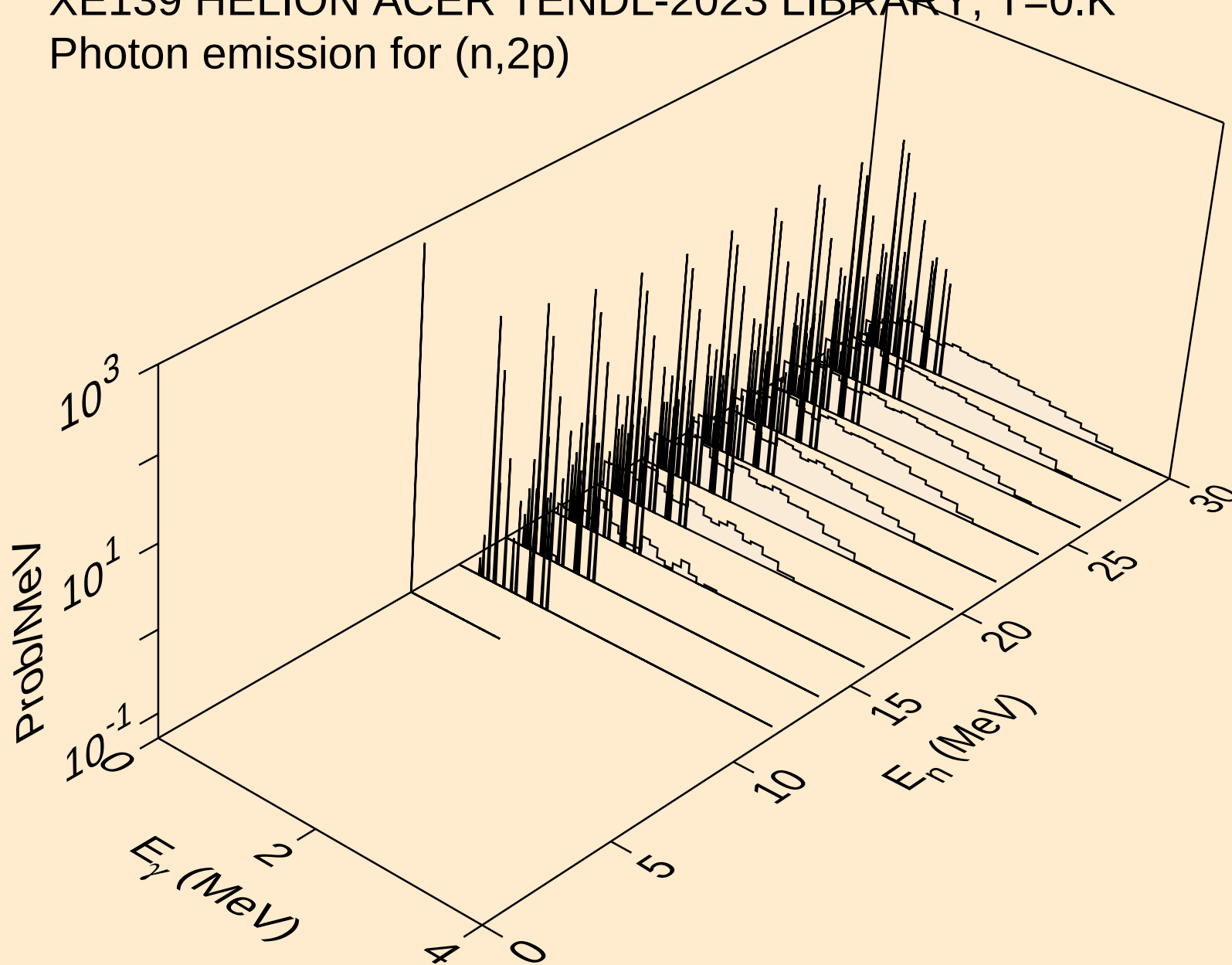
XE139 HELION ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for inelastic



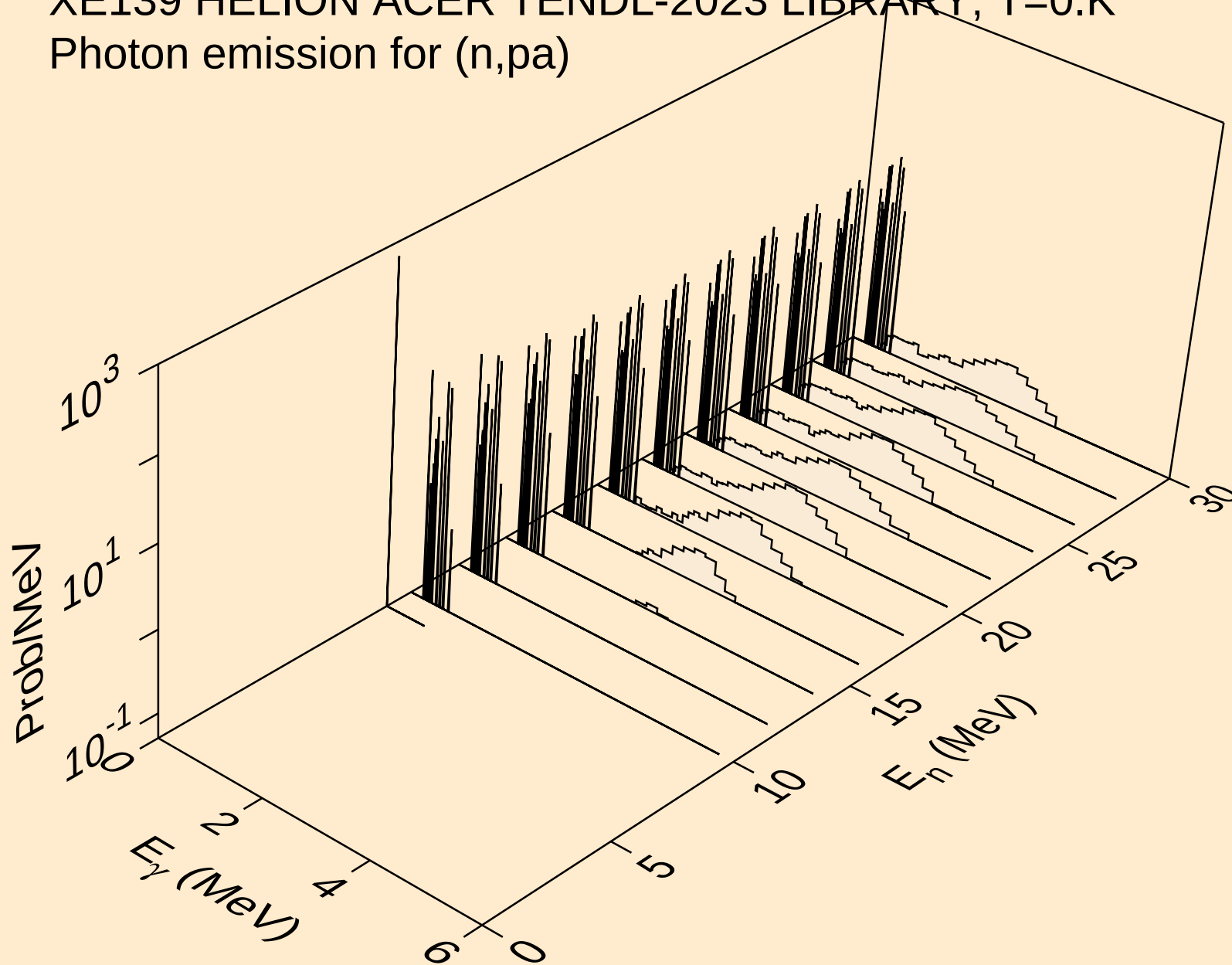
XE139 HELION ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,a)



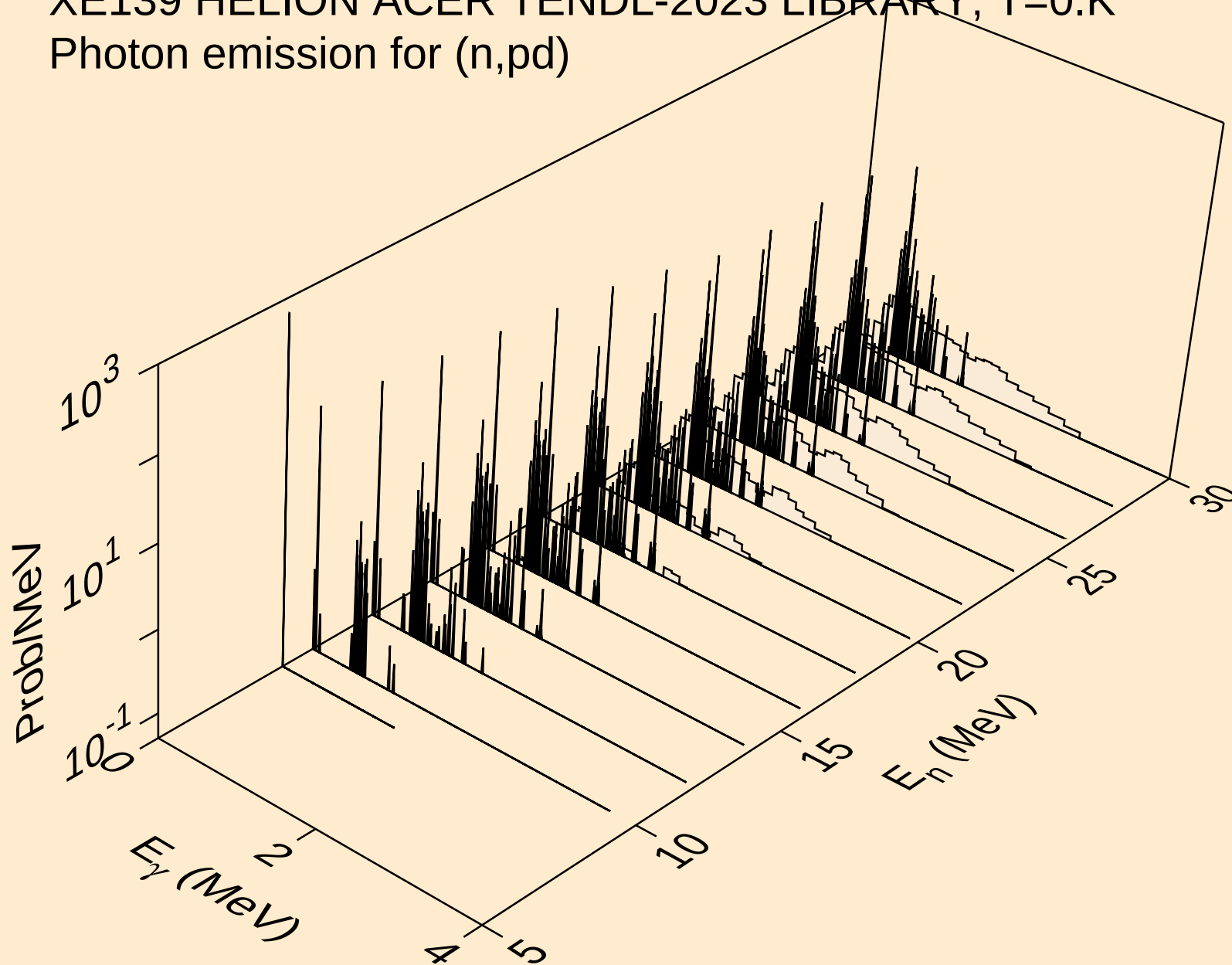
XE139 HELION ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,2p)



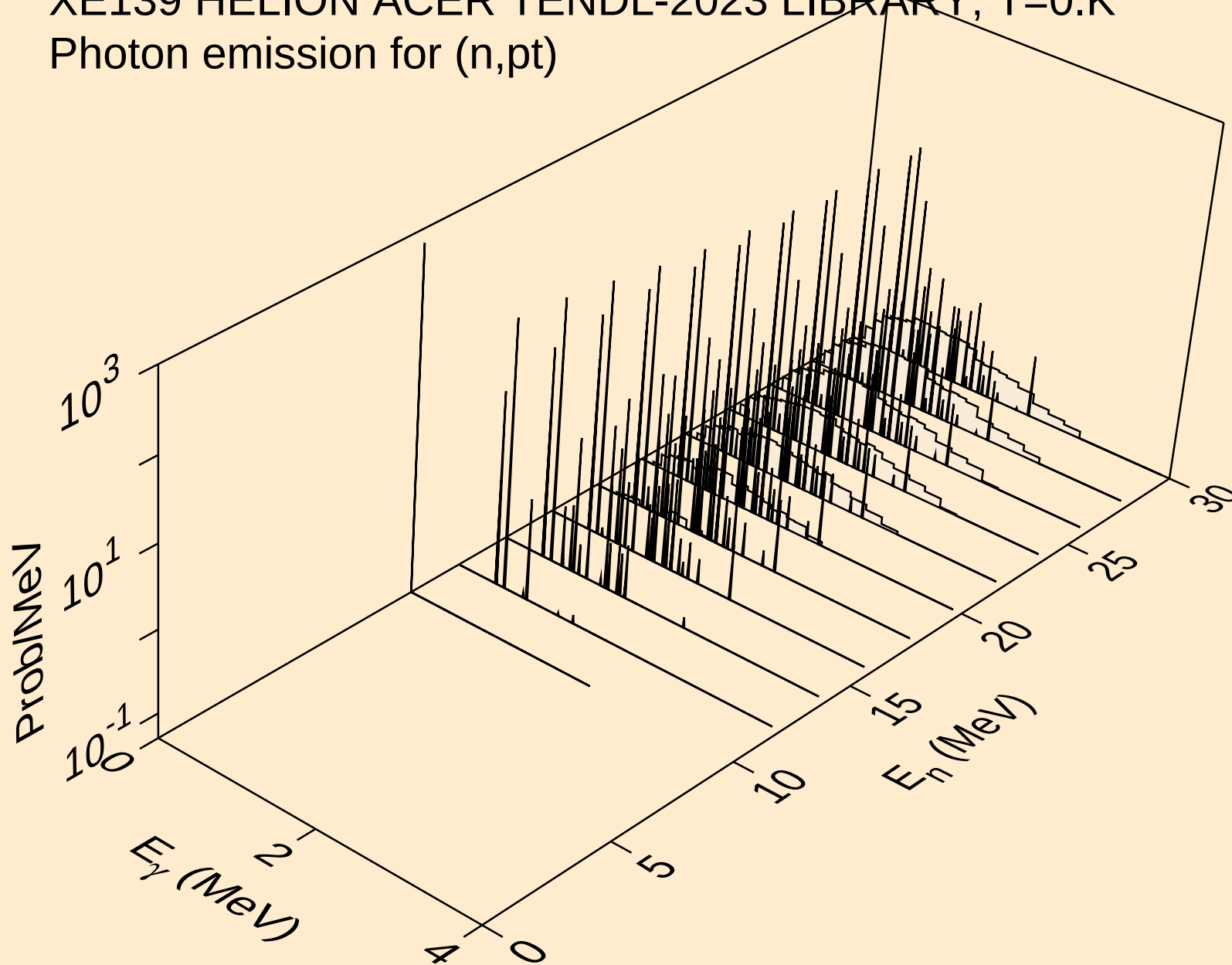
XE139 HELION ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,p α)



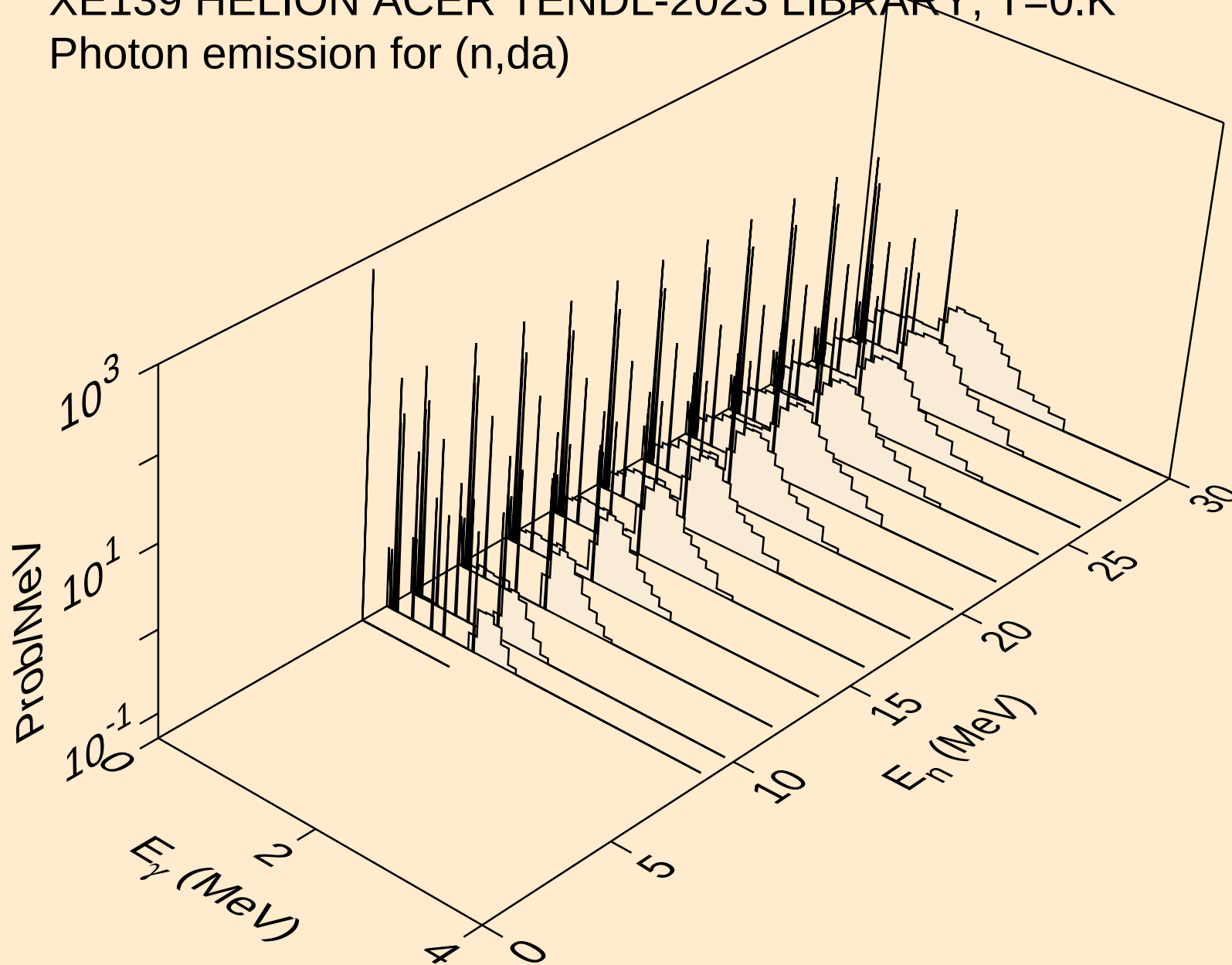
XE139 HELION ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,pd)



XE139 HELION ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,pt)

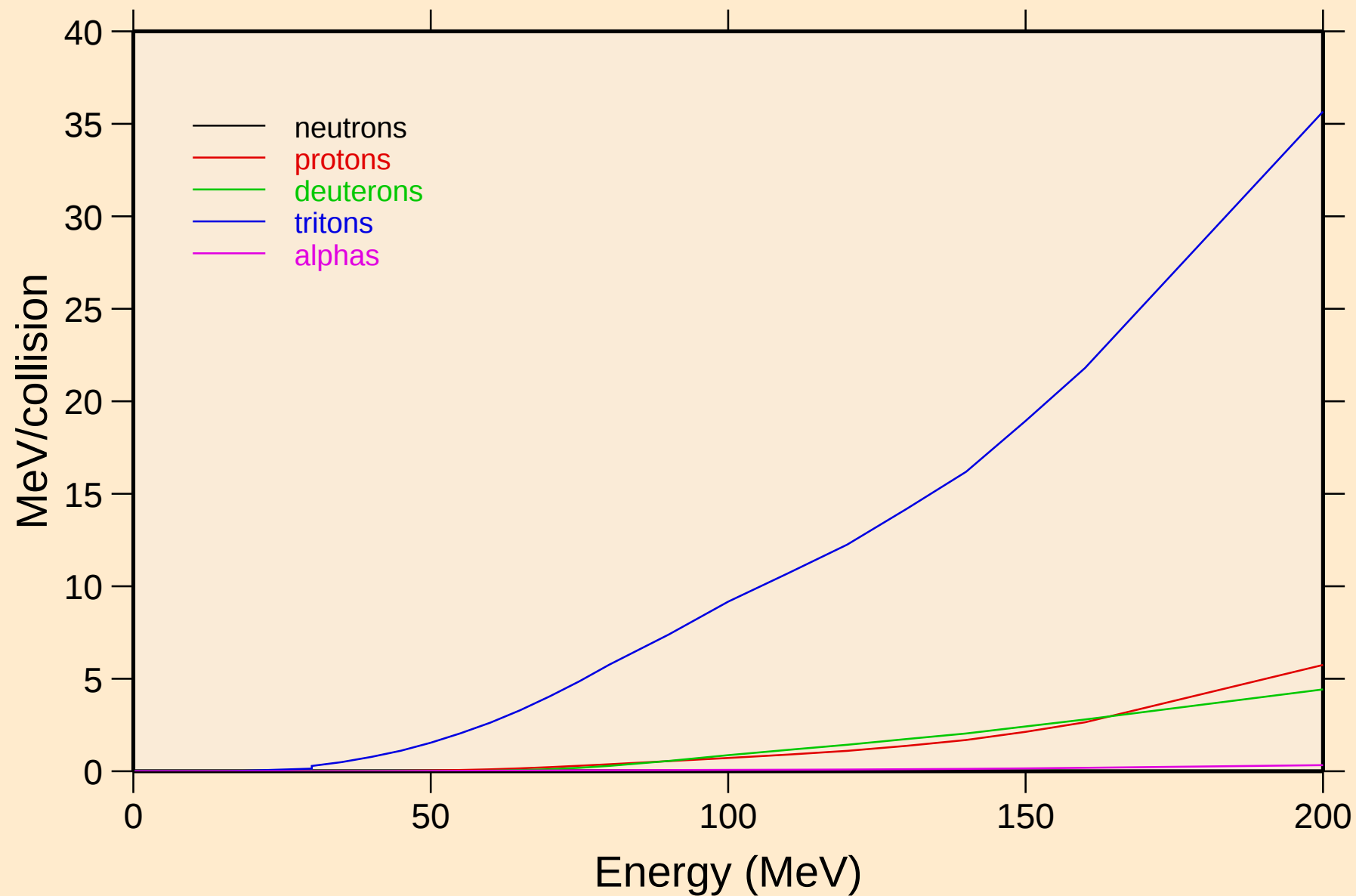


XE139 HELION ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,da)



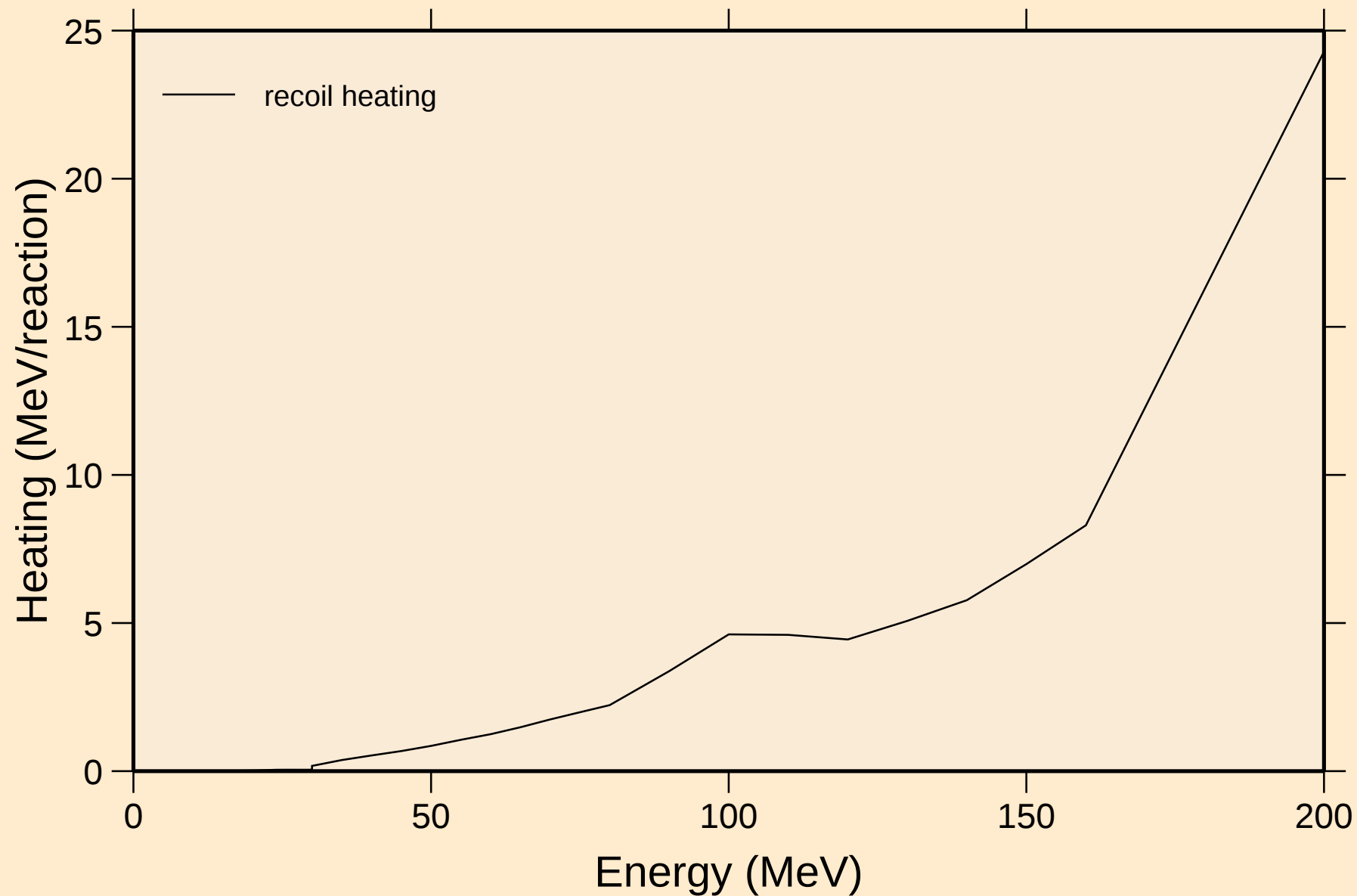
XE139 HELION ACER TENDL-2023 LIBRARY; T=0.K

Particle heating contributions



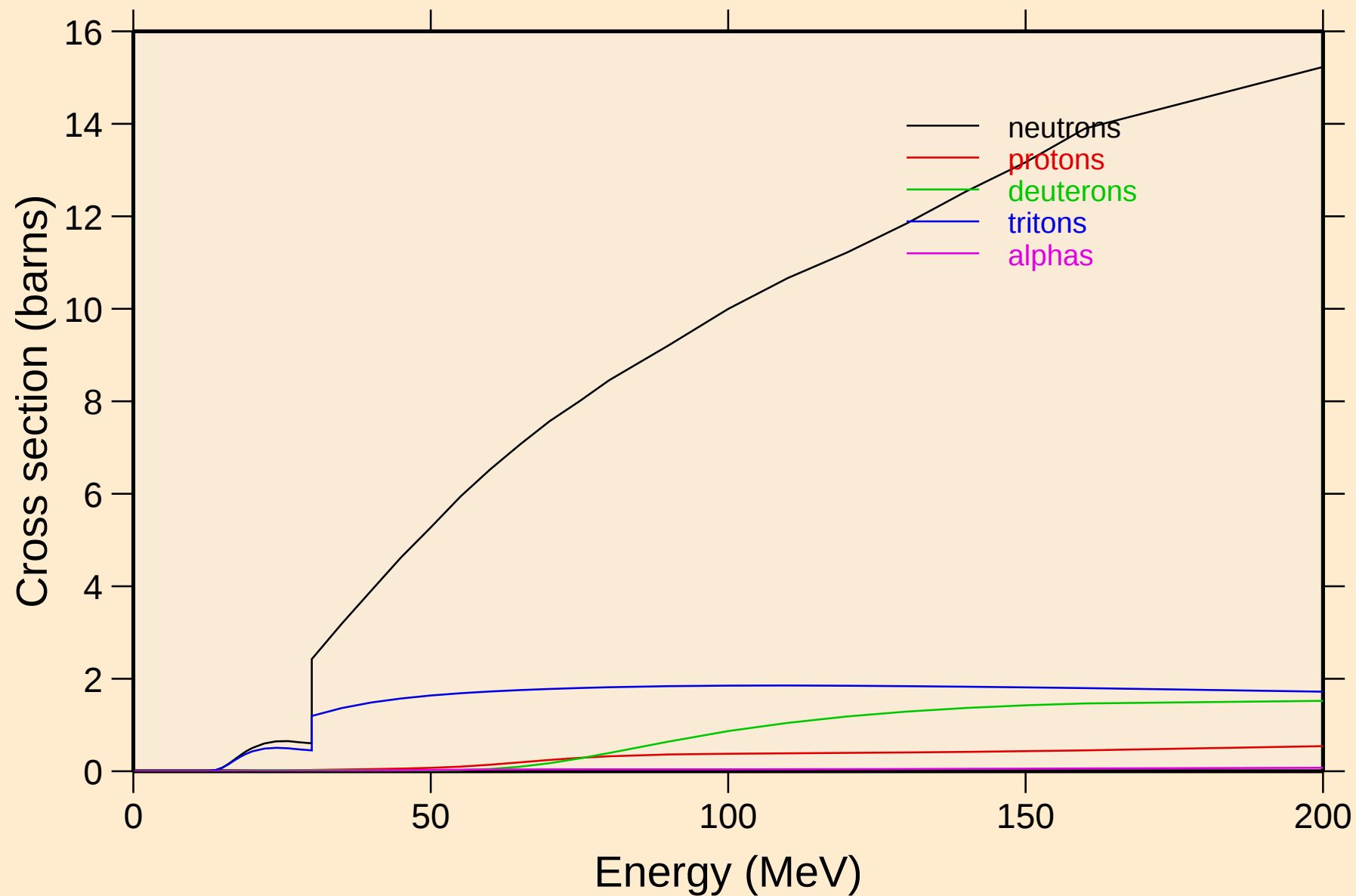
XE139 HELION ACER TENDL-2023 LIBRARY; T=0.K

Recoil Heating

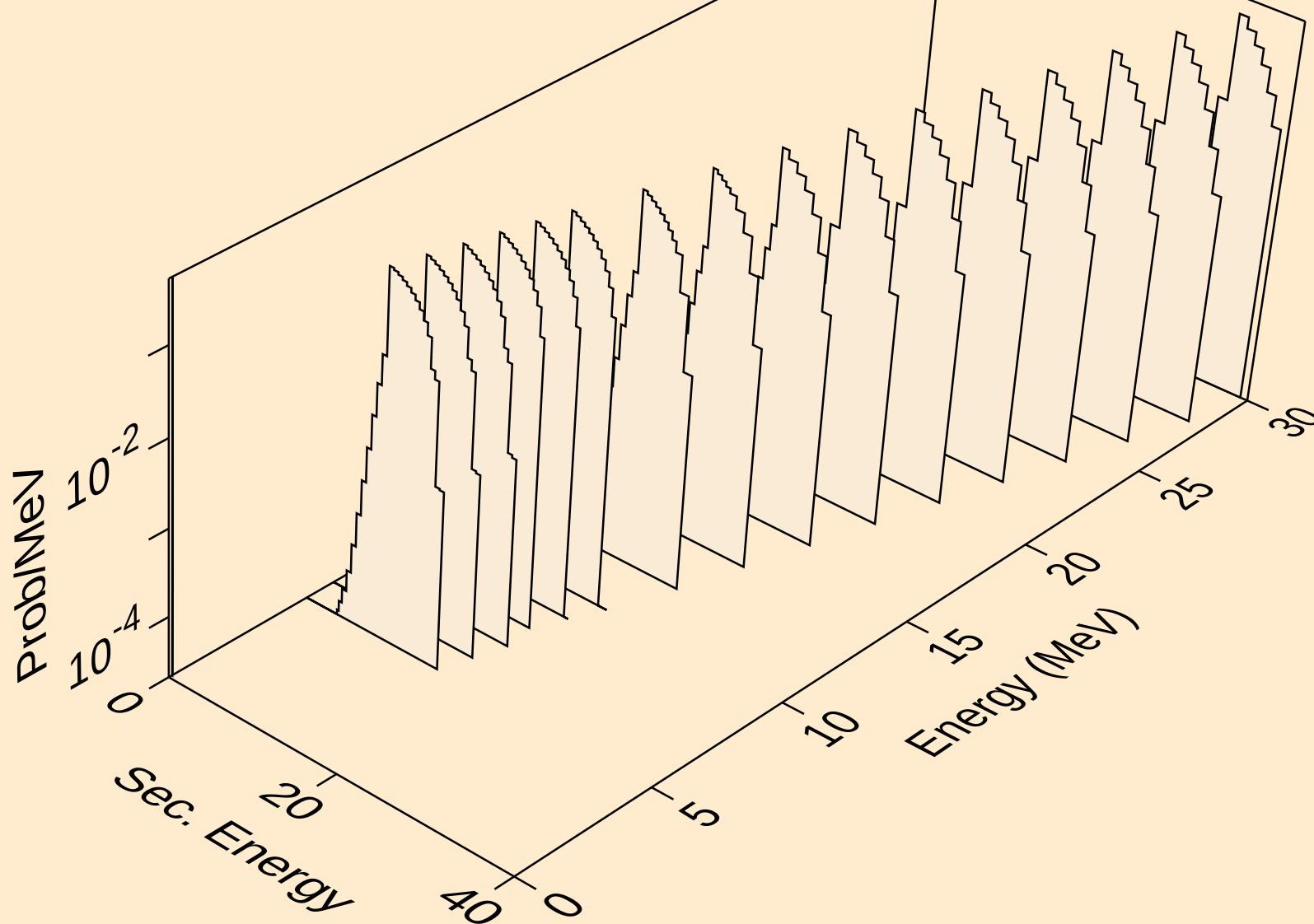


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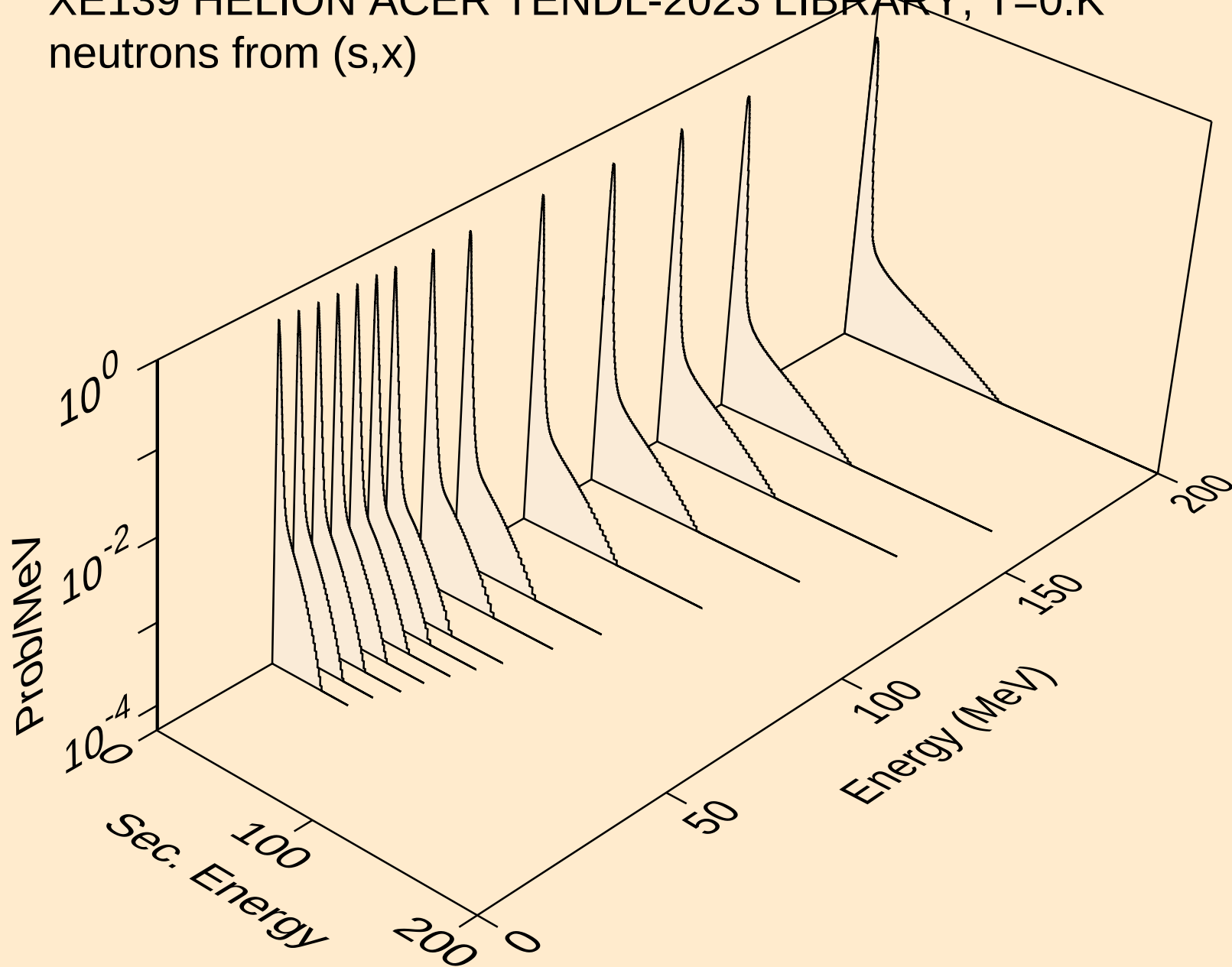
Particle production cross sections



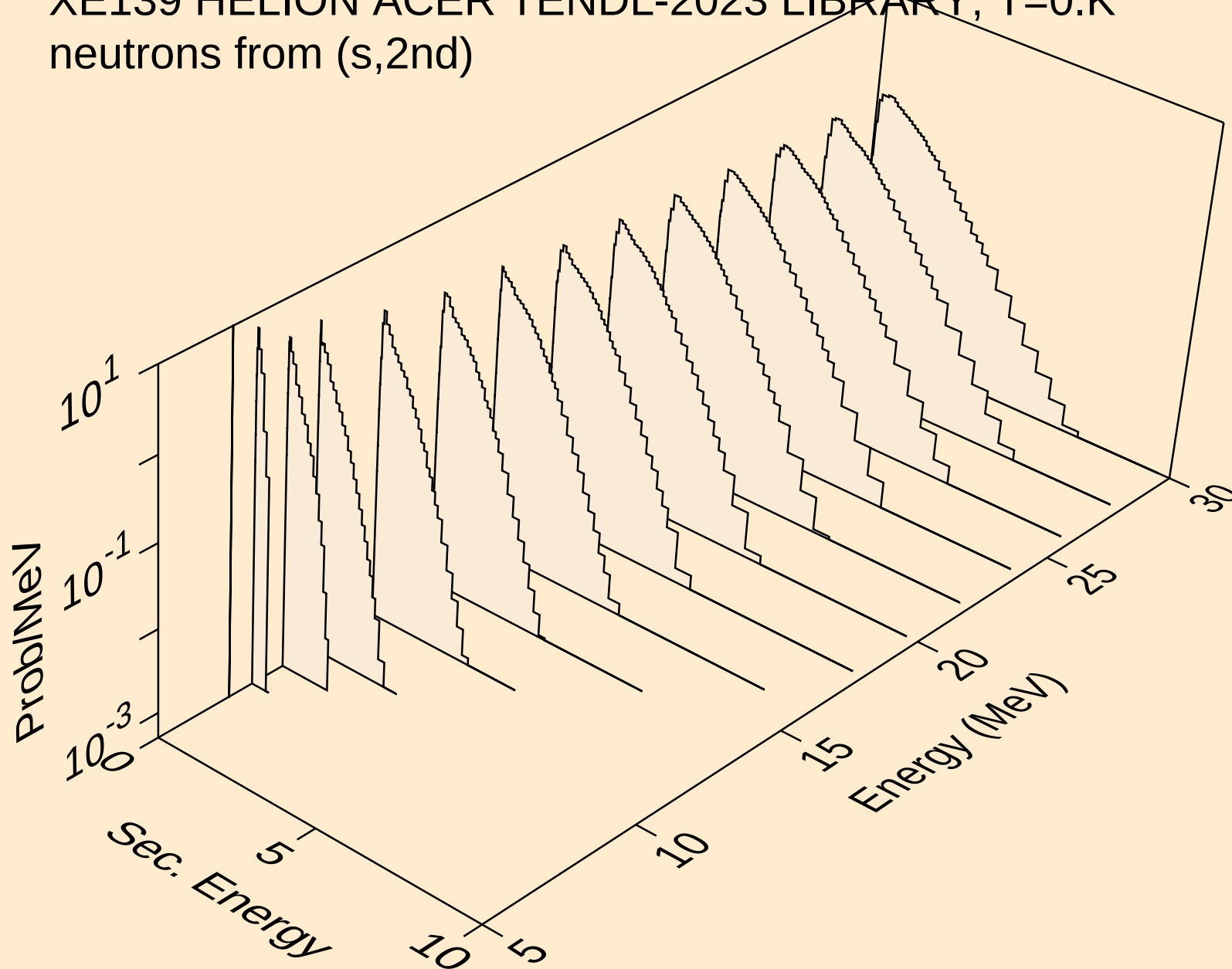
XE139 HELION ACER TENDL-2023 LIBRARY; T=0.K
neutrons from (s,n)



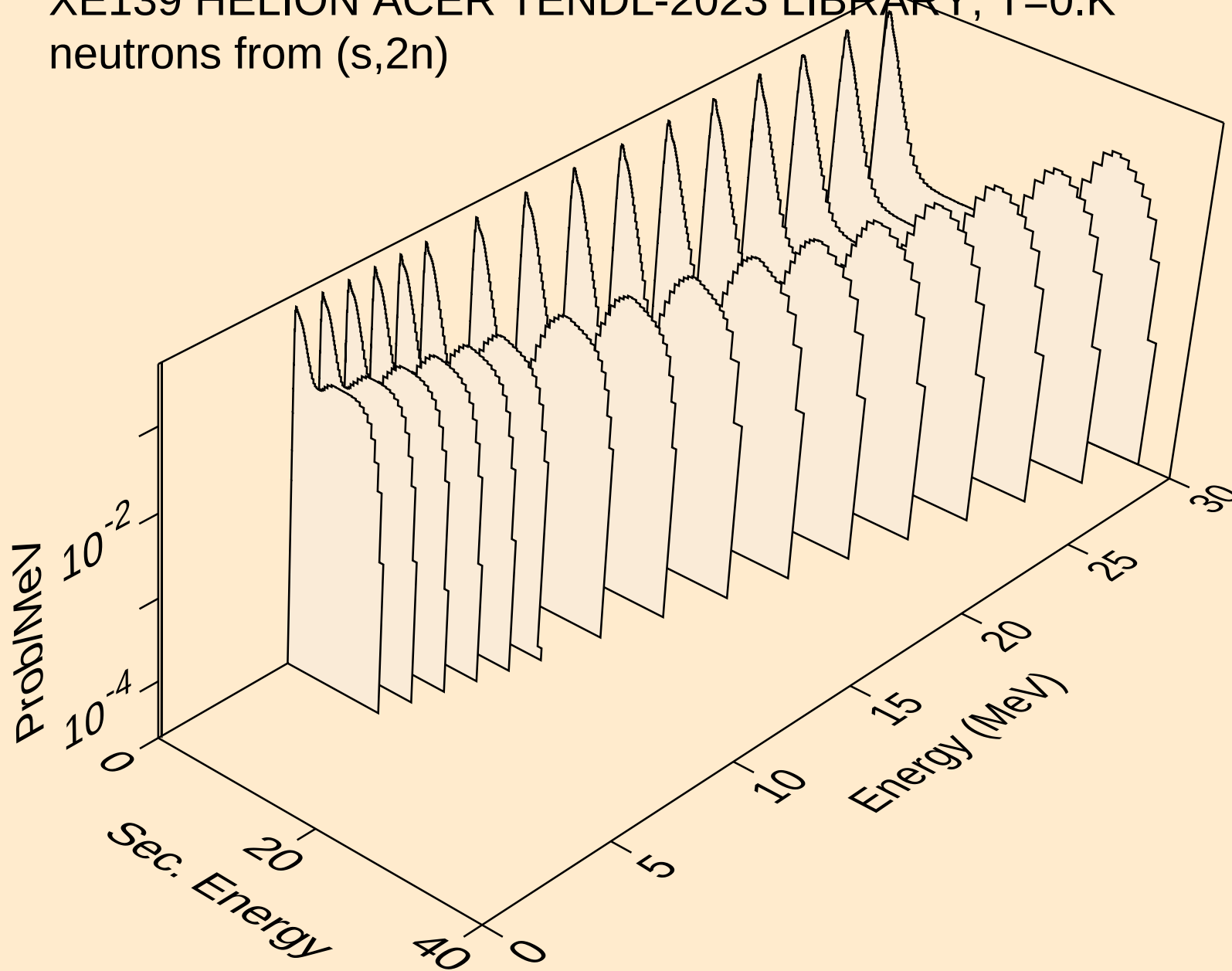
XE139 HELION ACER TENDL-2023 LIBRARY; T=0.K
neutrons from (s,x)



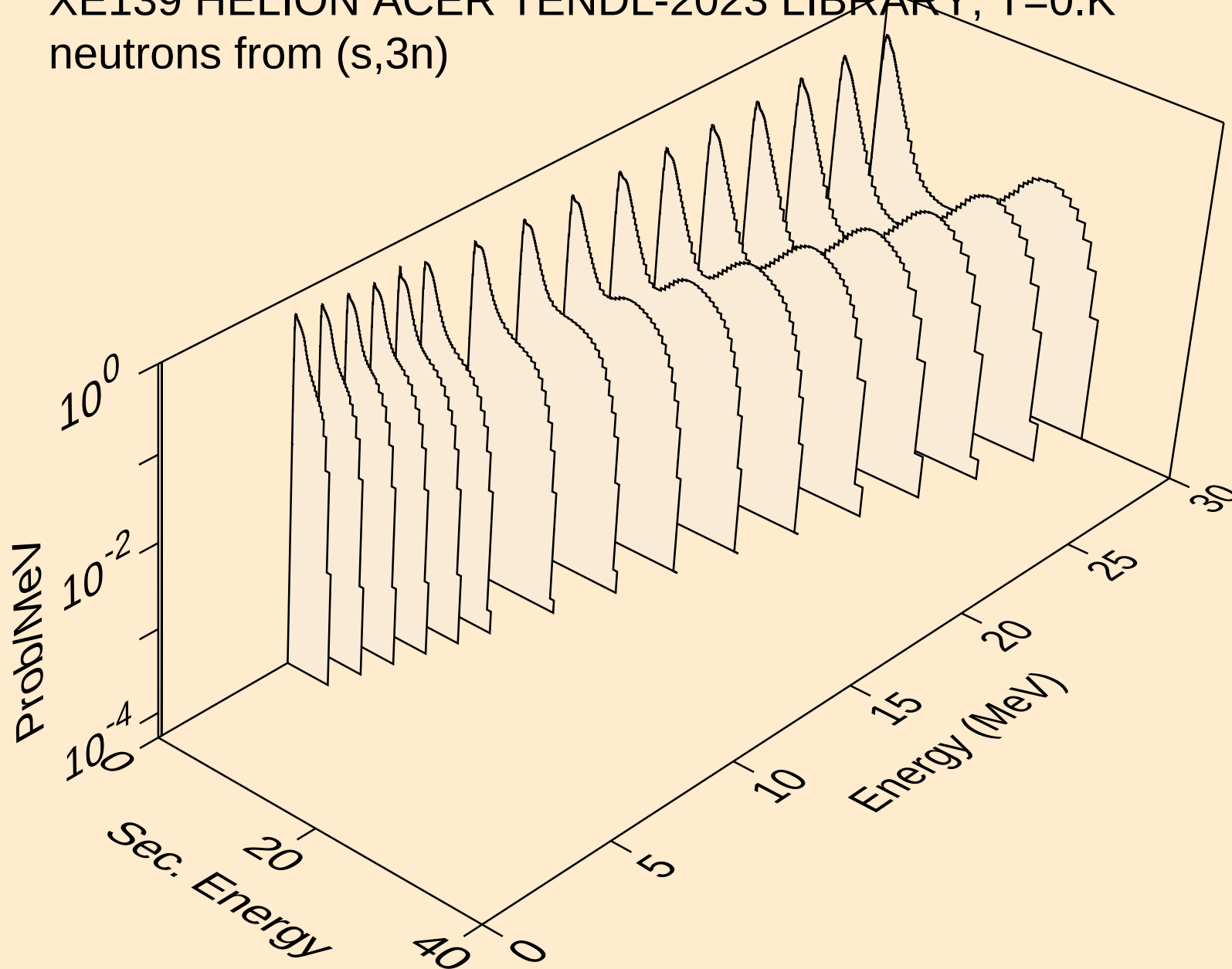
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neutrons from (s,2nd)



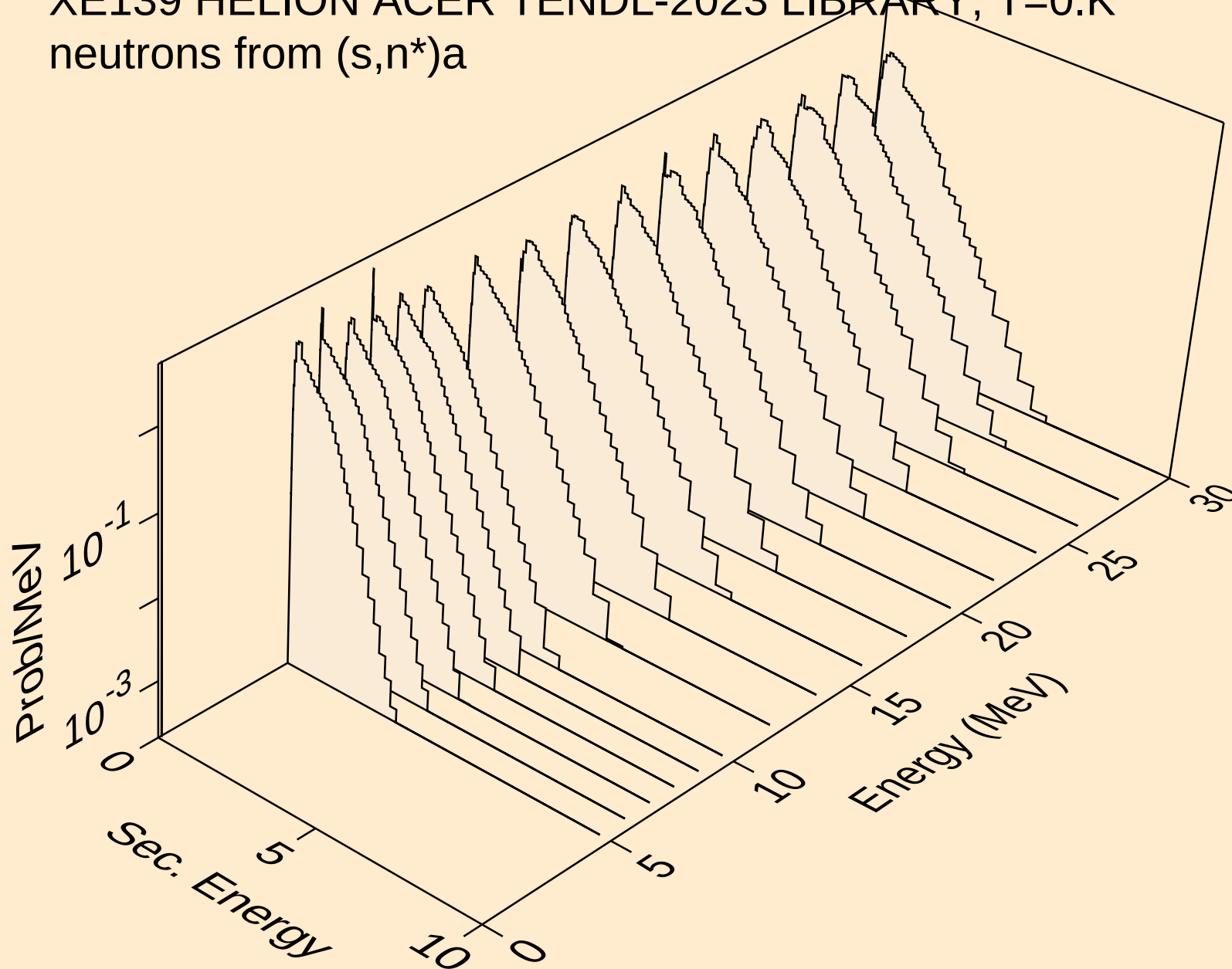
XE139 HELION ACER TENDL-2023 LIBRARY; T=0.K
neutrons from (s,2n)



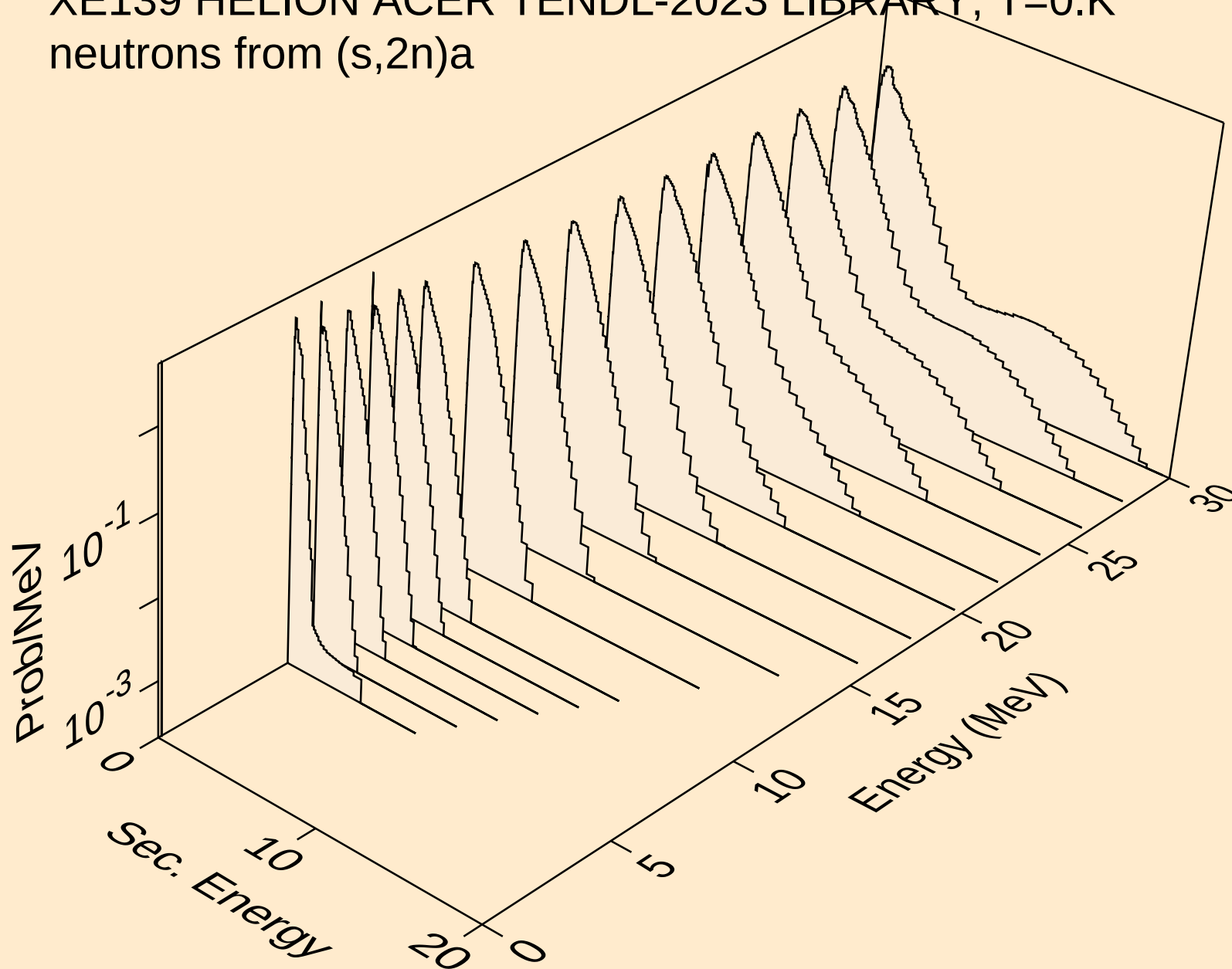
XE139 HELION ACER TENDL-2023 LIBRARY; T=0.K
neutrons from (s,3n)



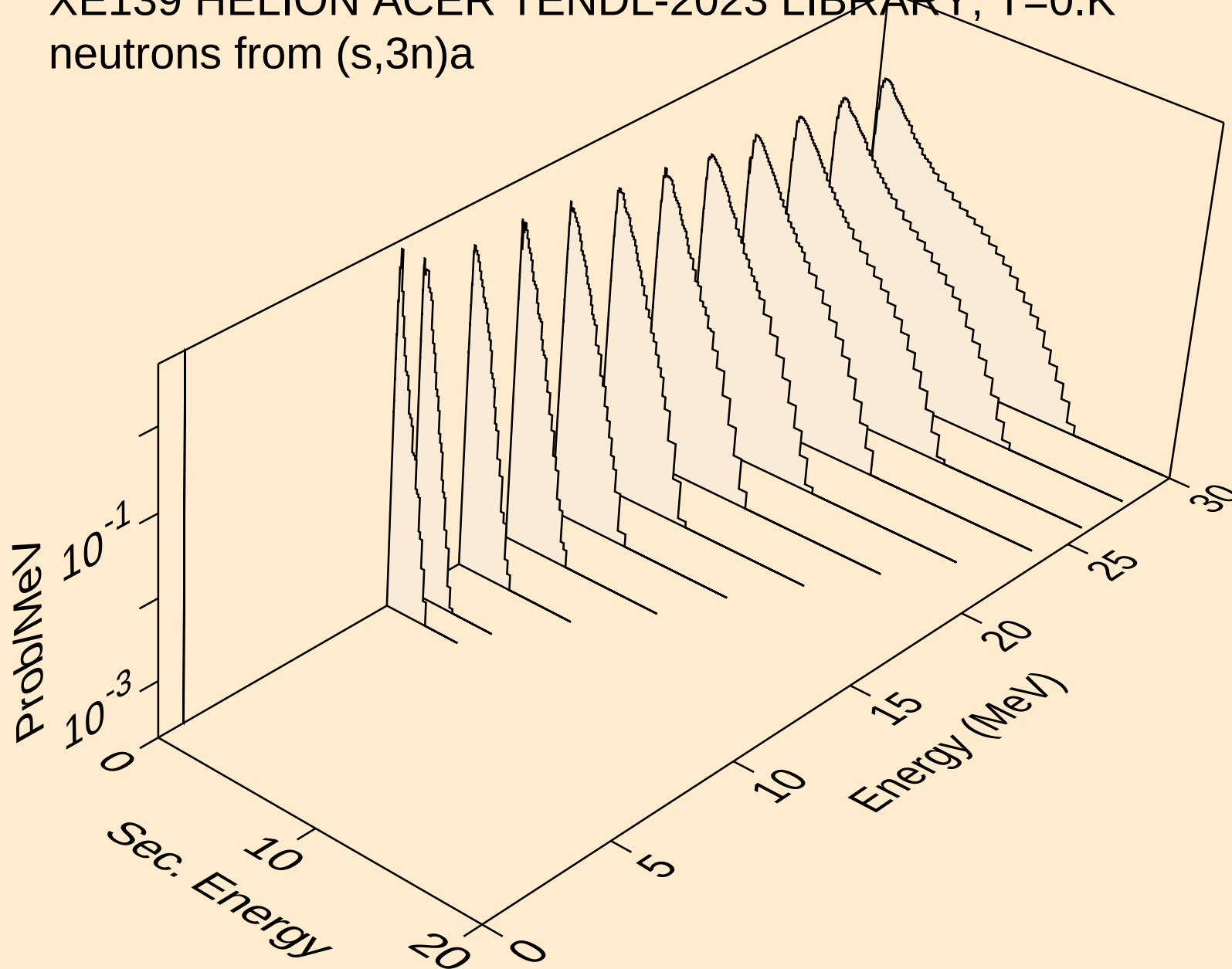
XE139 HELION ACER TENDL-2023 LIBRARY; T=0.K
neutrons from (s,n*)a



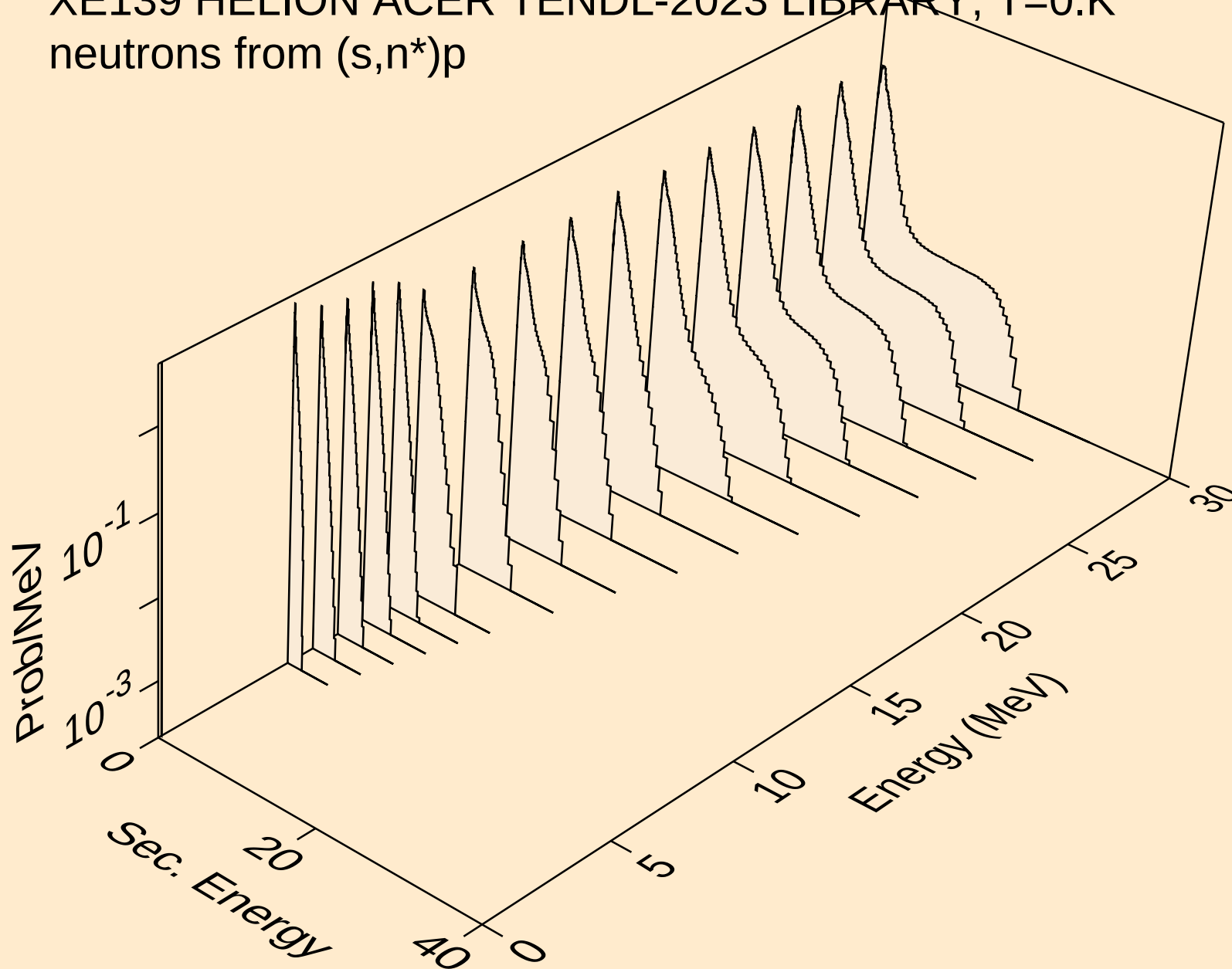
XE139 HELION ACER TENDL-2023 LIBRARY; T=0.K
neutrons from (s,2n)a



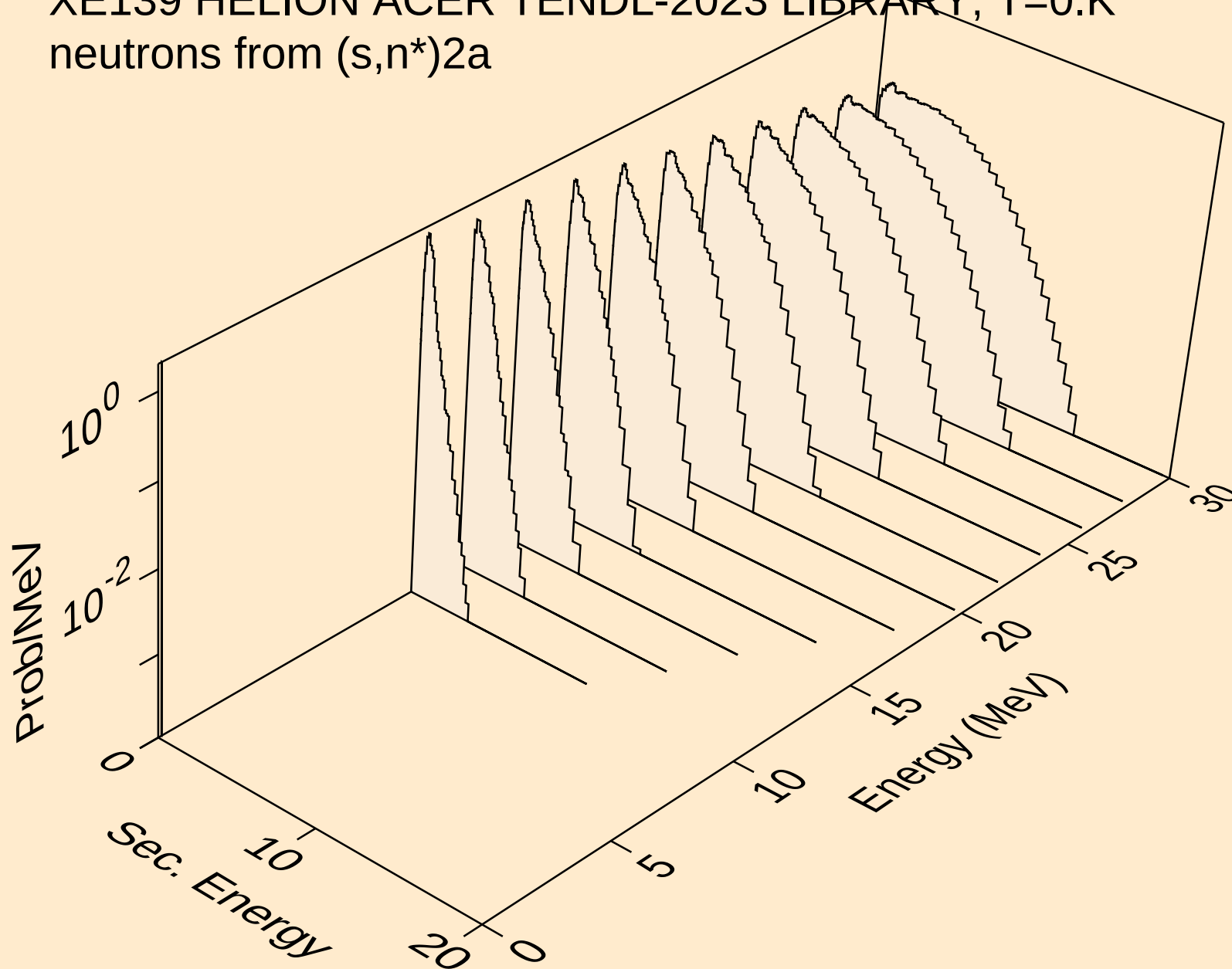
XE139 HELION ACER TENDL-2023 LIBRARY; T=0.K
neutrons from (s,3n)a



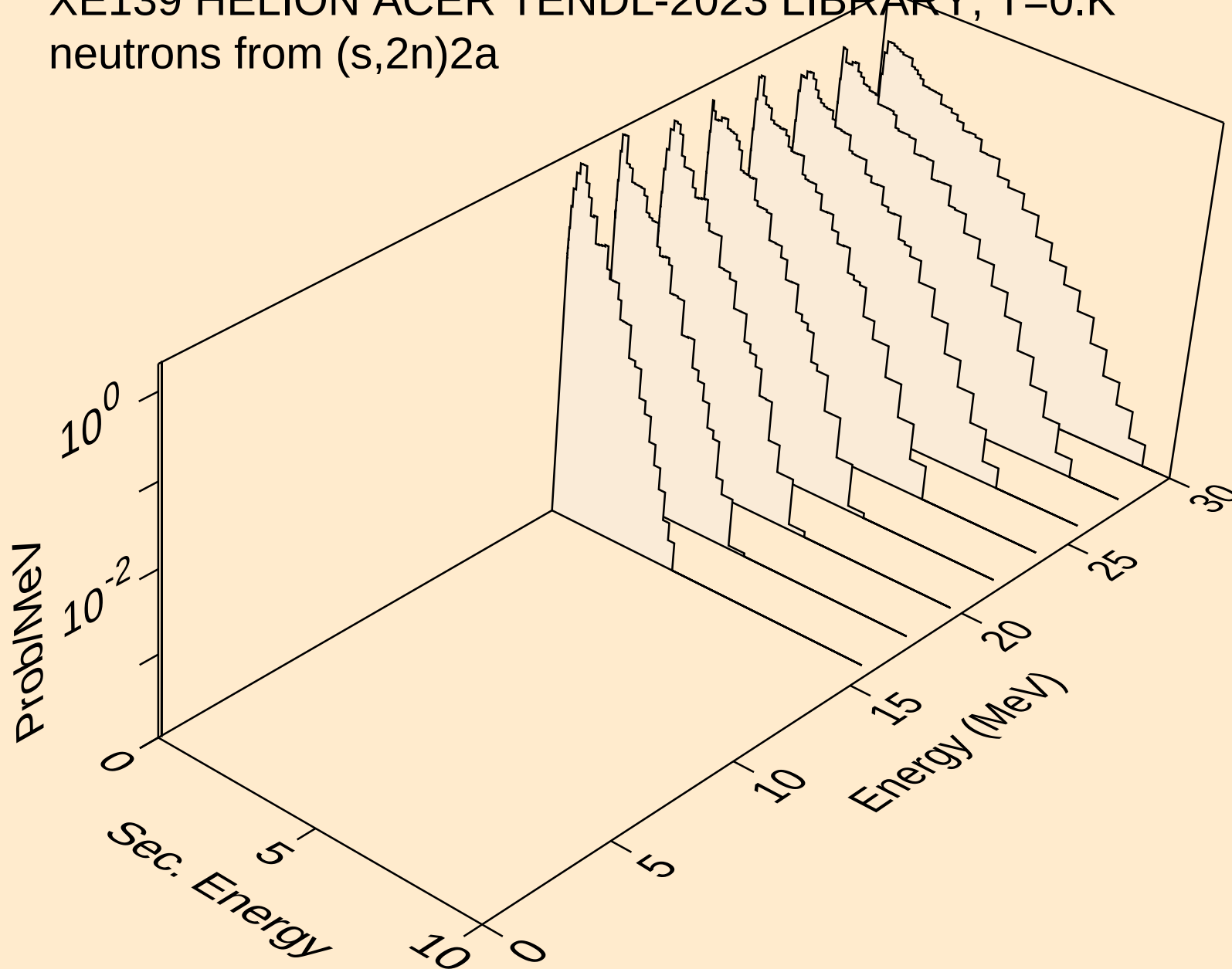
XE139 HELION ACER TENDL-2023 LIBRARY; T=0.K
neutrons from (s,n*)p



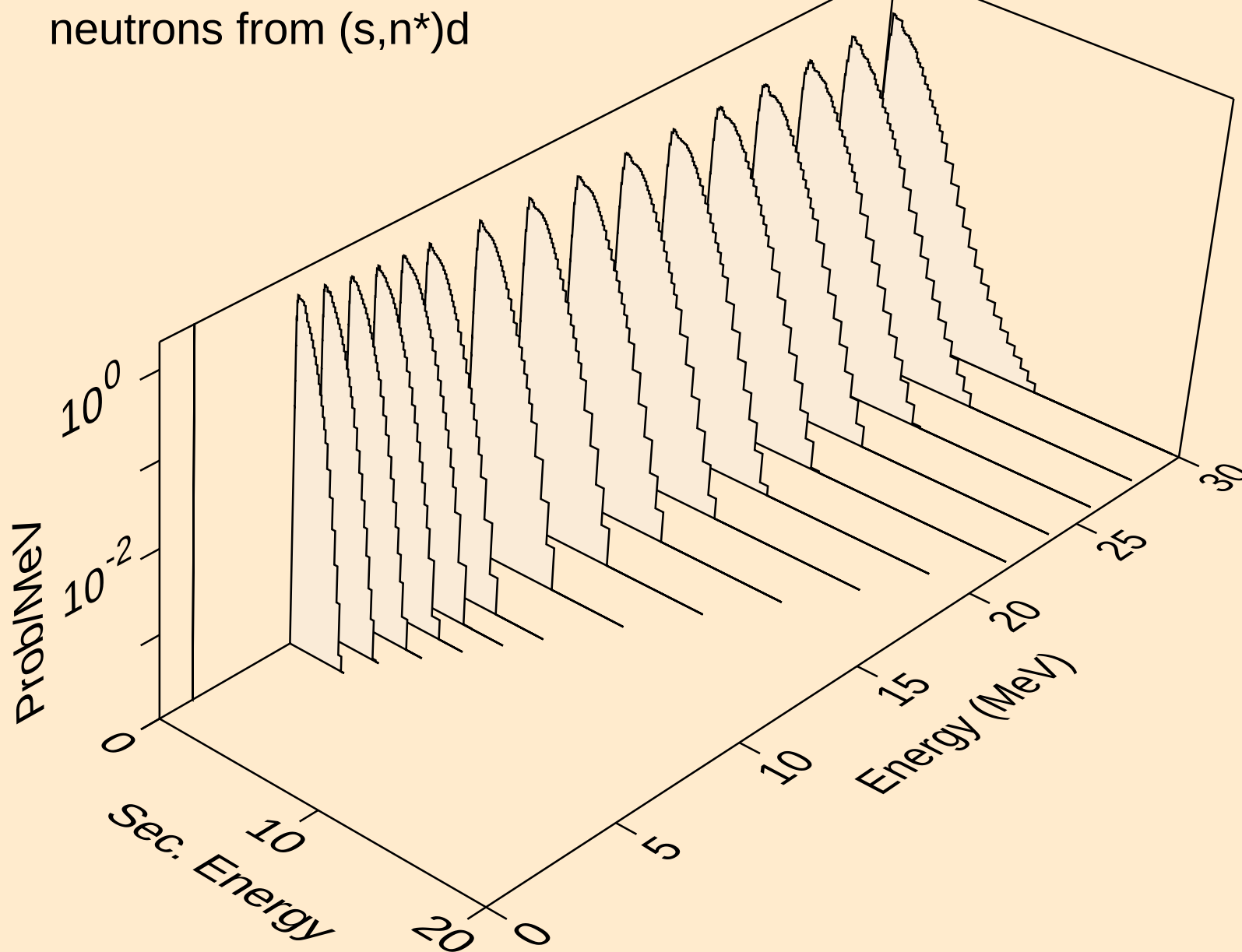
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neutrons from (s,n*)2a



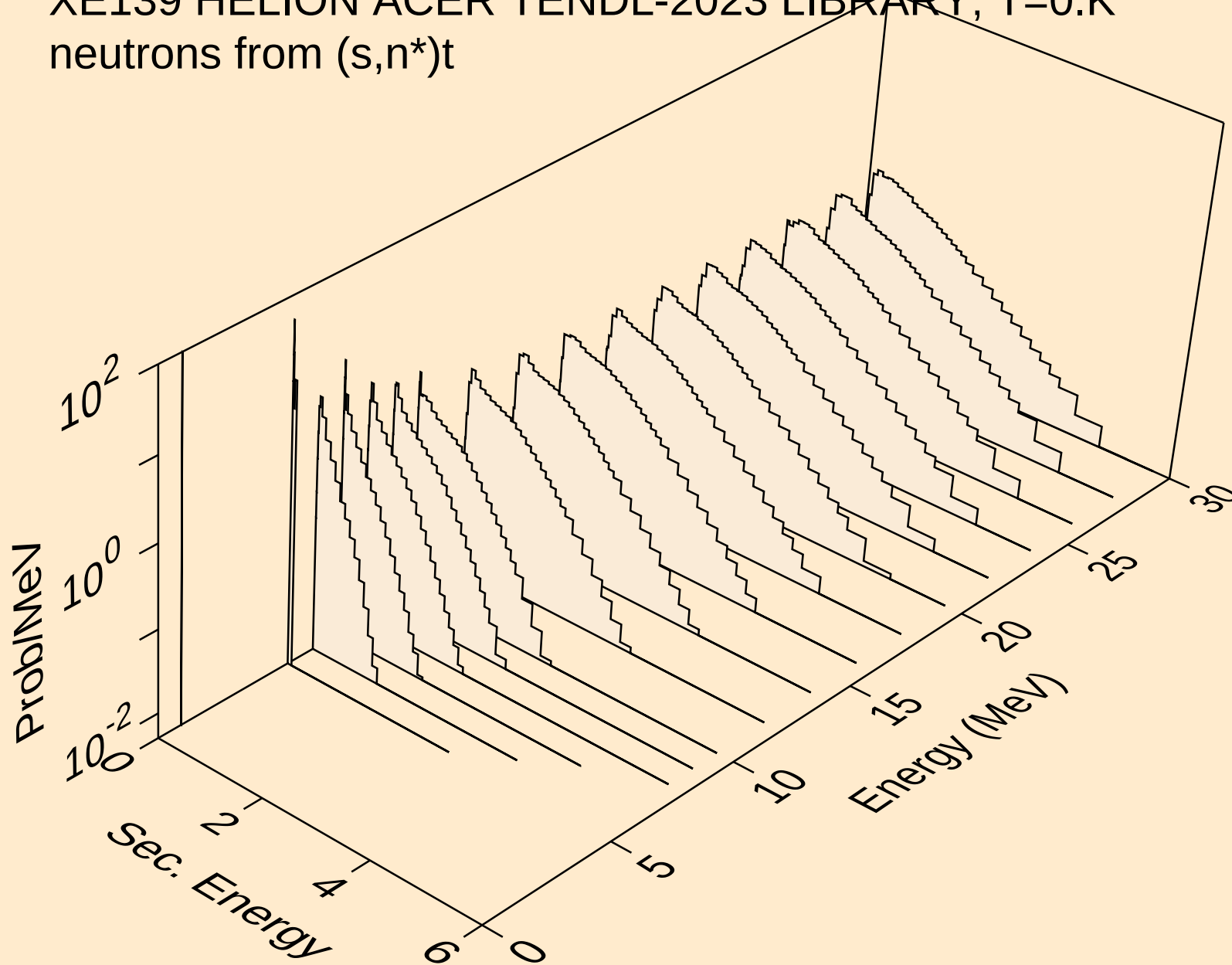
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neutrons from (s,2n)2a



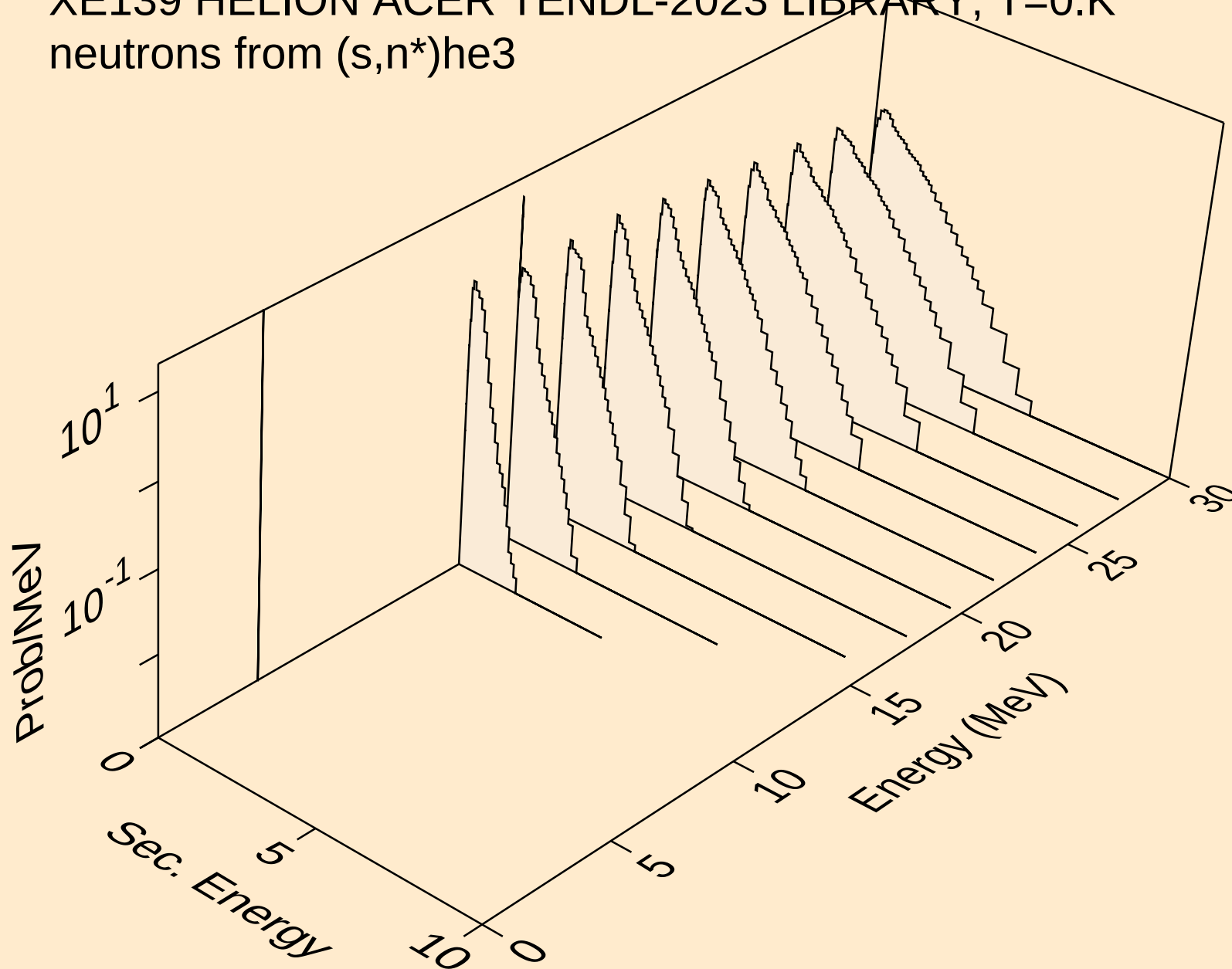
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neutrons from (s,n*)d



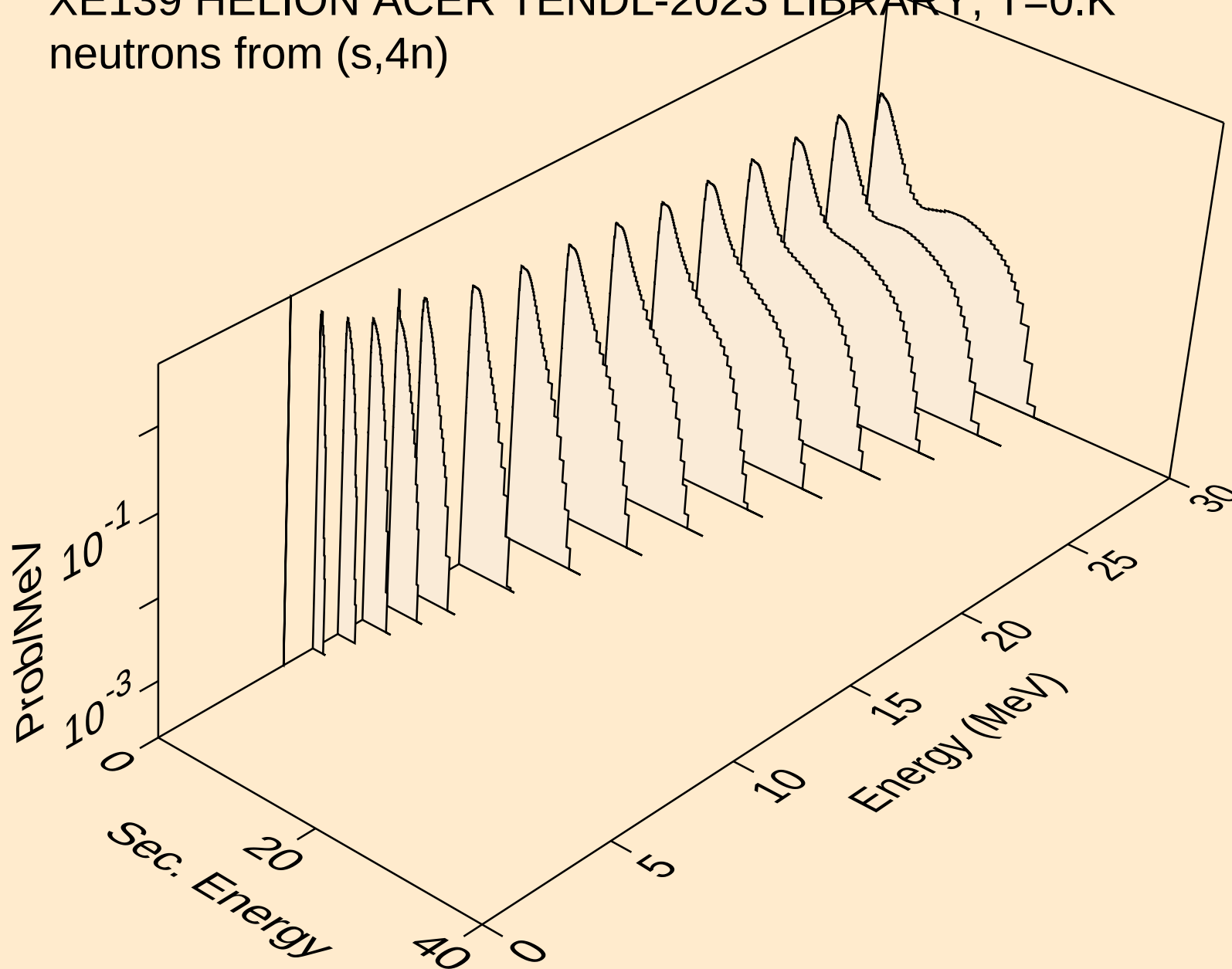
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neutrons from (s,n*)t



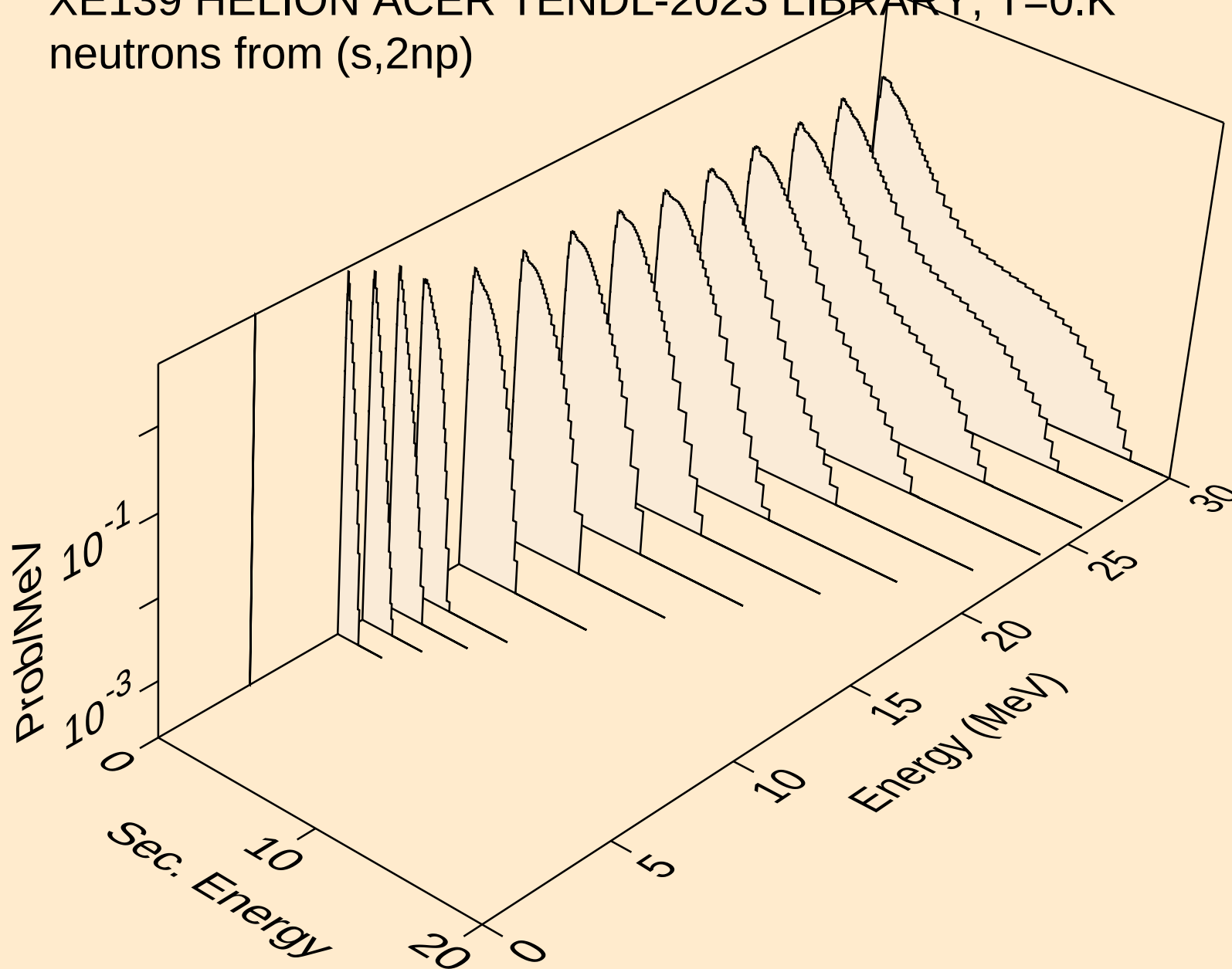
XE139 HELION ACER TENDL-2023 LIBRARY; T=0.K
neutrons from (s,n*)he3



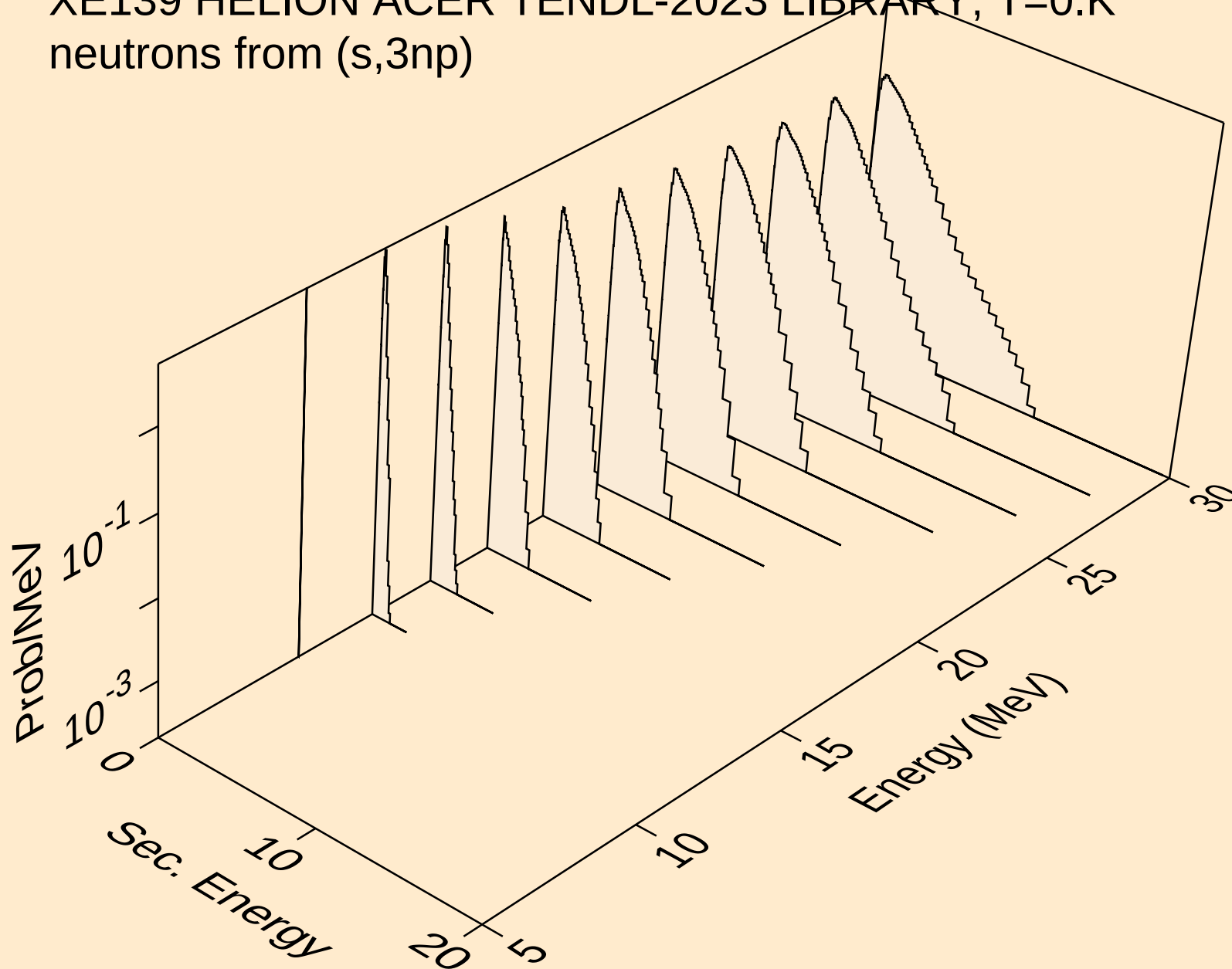
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neutrons from (s,4n)



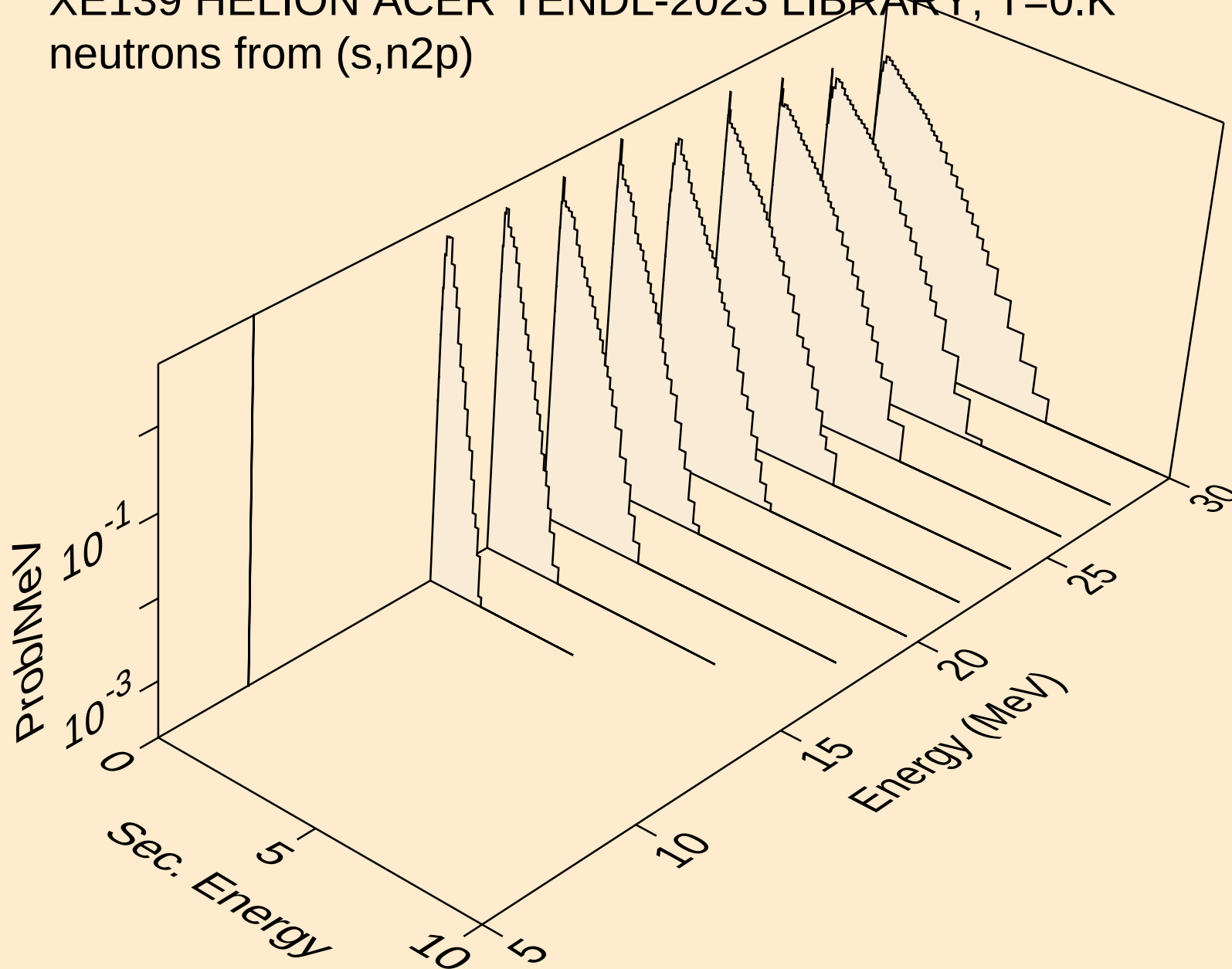
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neutrons from (s,2np)



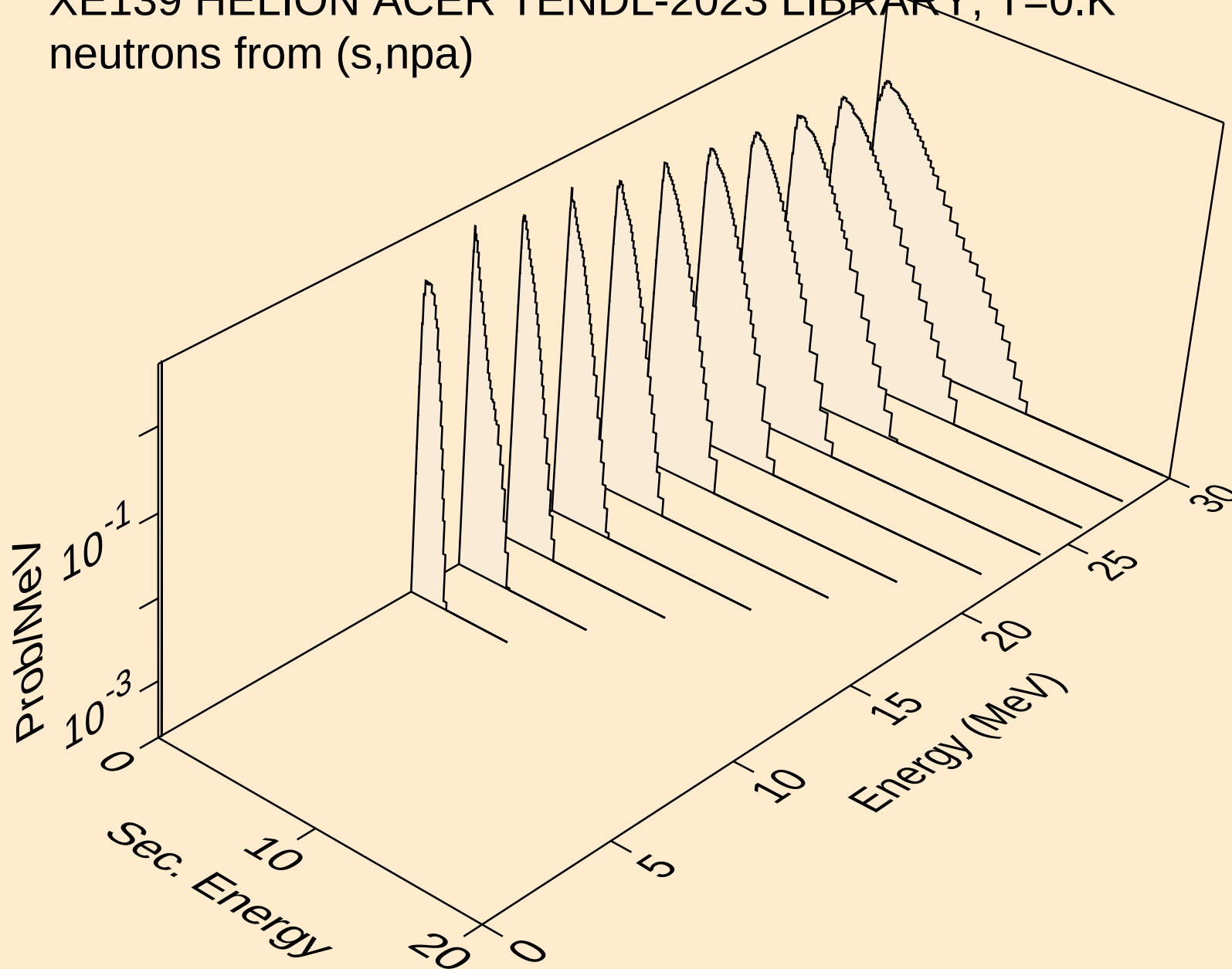
XE139 HELION ACER TENDL-2023 LIBRARY; T=0.K
neutrons from (s,3np)



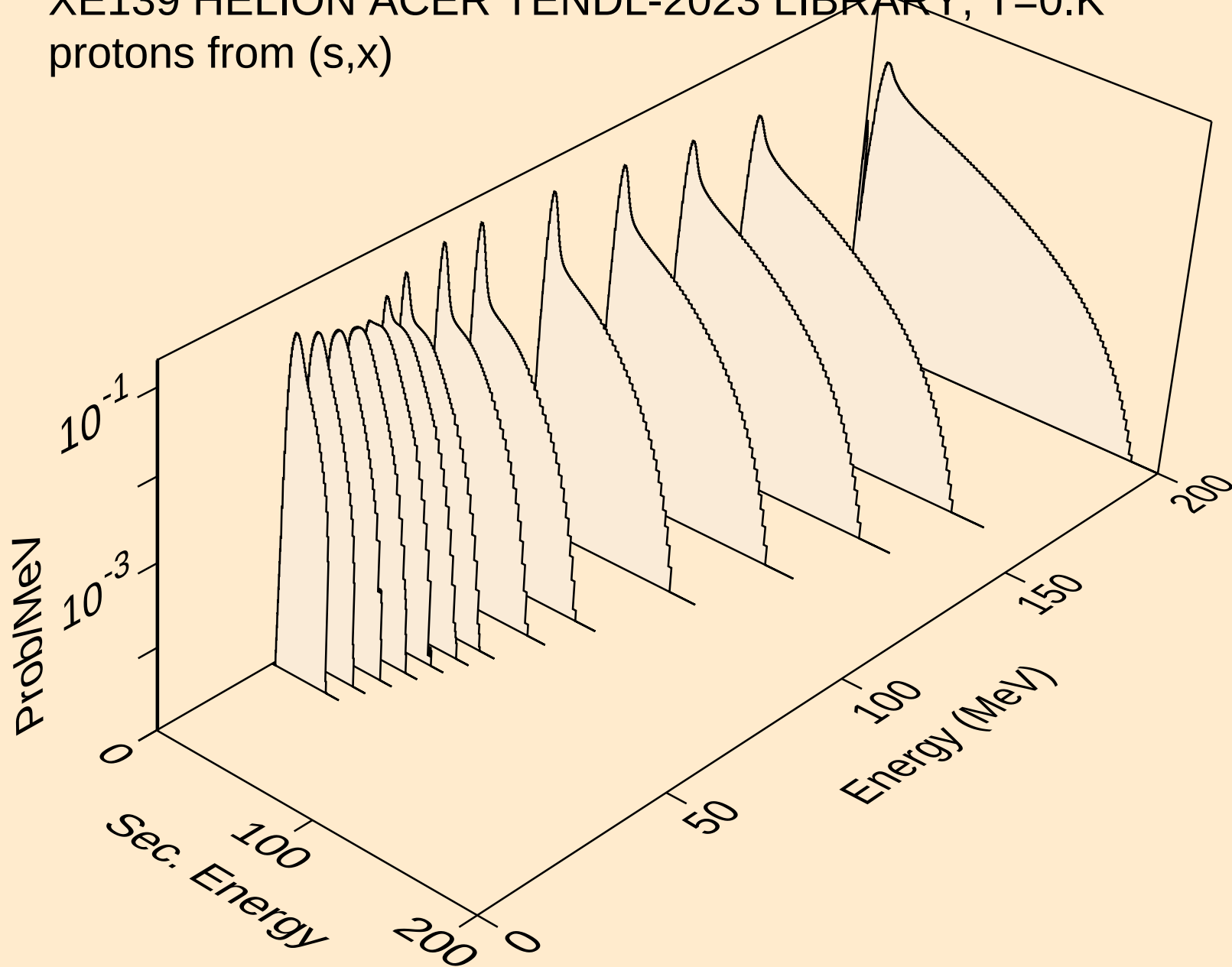
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neutrons from (s,n2p)



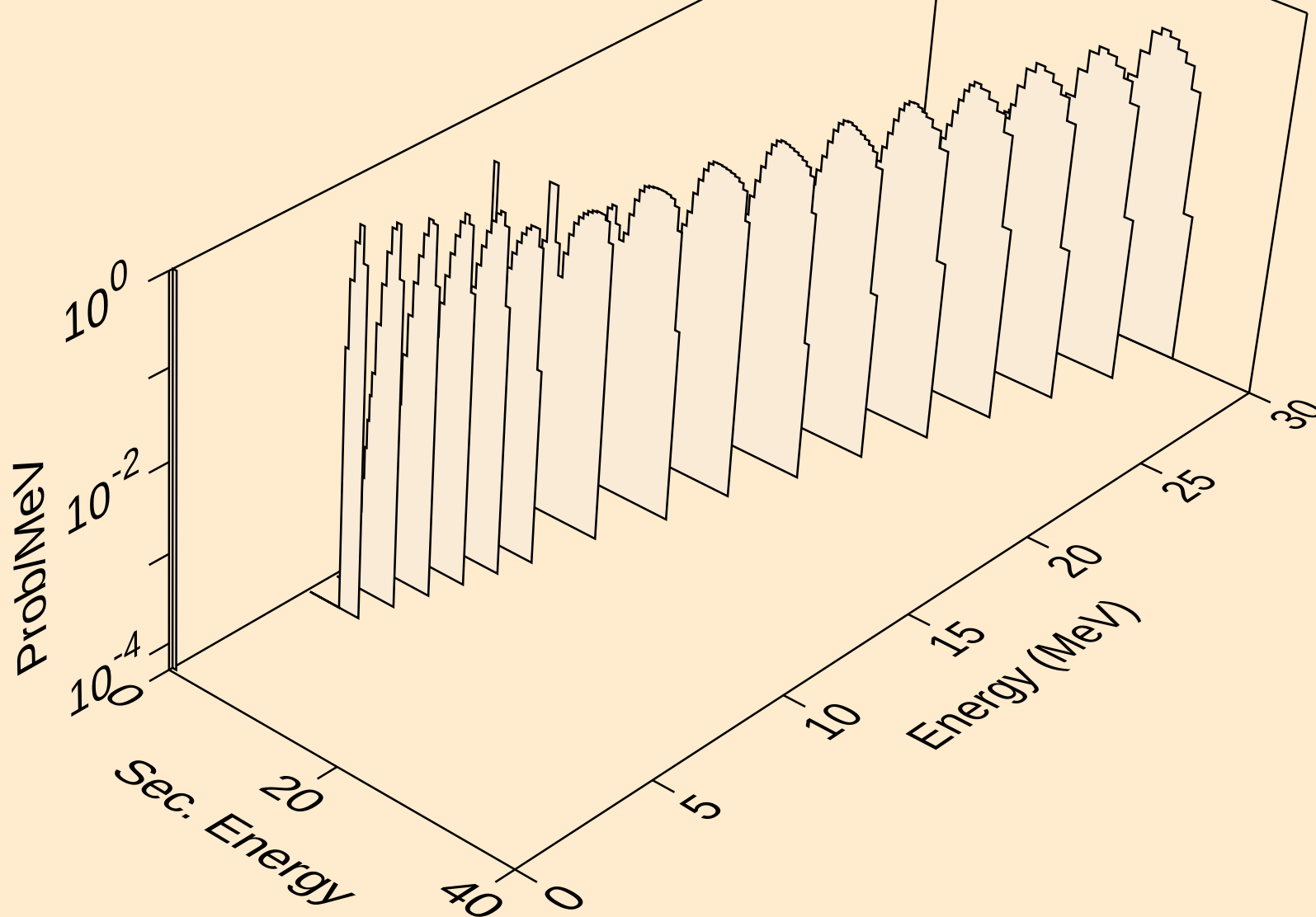
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neutrons from (s,npa)



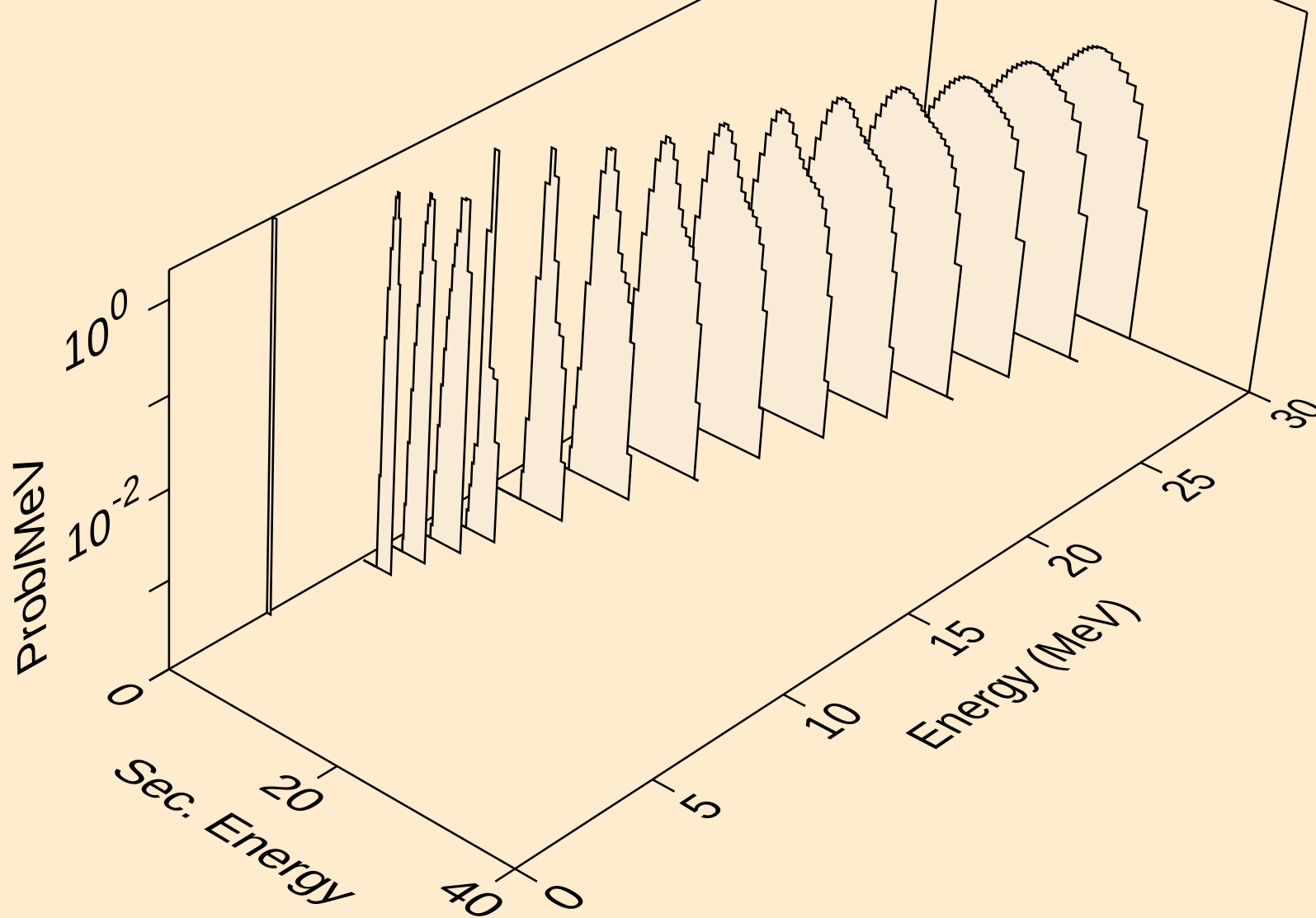
XE139 HELION ACER TENDL-2023 LIBRARY; T=0.K
protons from (s,x)



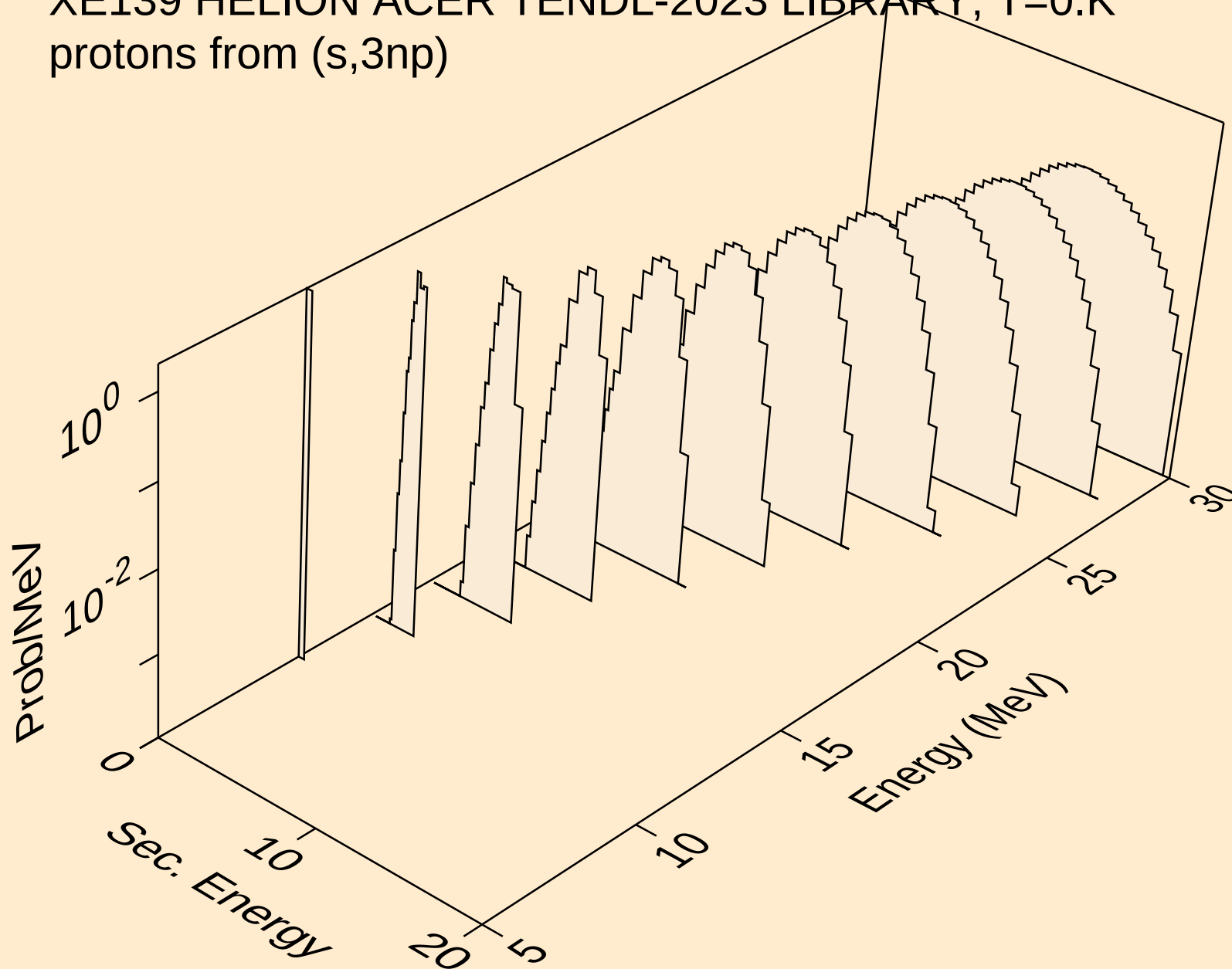
XE139 HELION ACER TENDL-2023 LIBRARY; T=0.K
protons from (s,n*)p



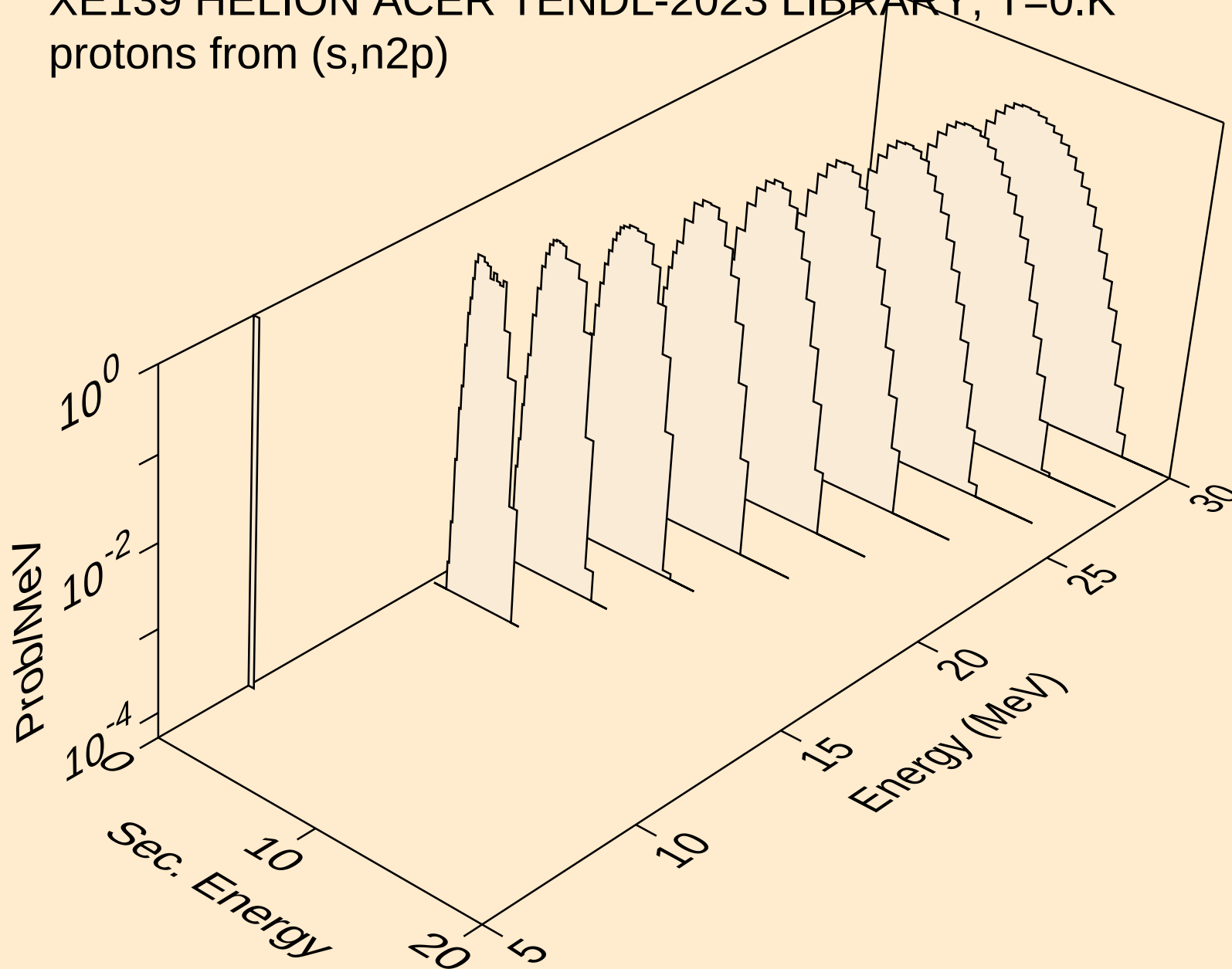
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protons from (s,2np)



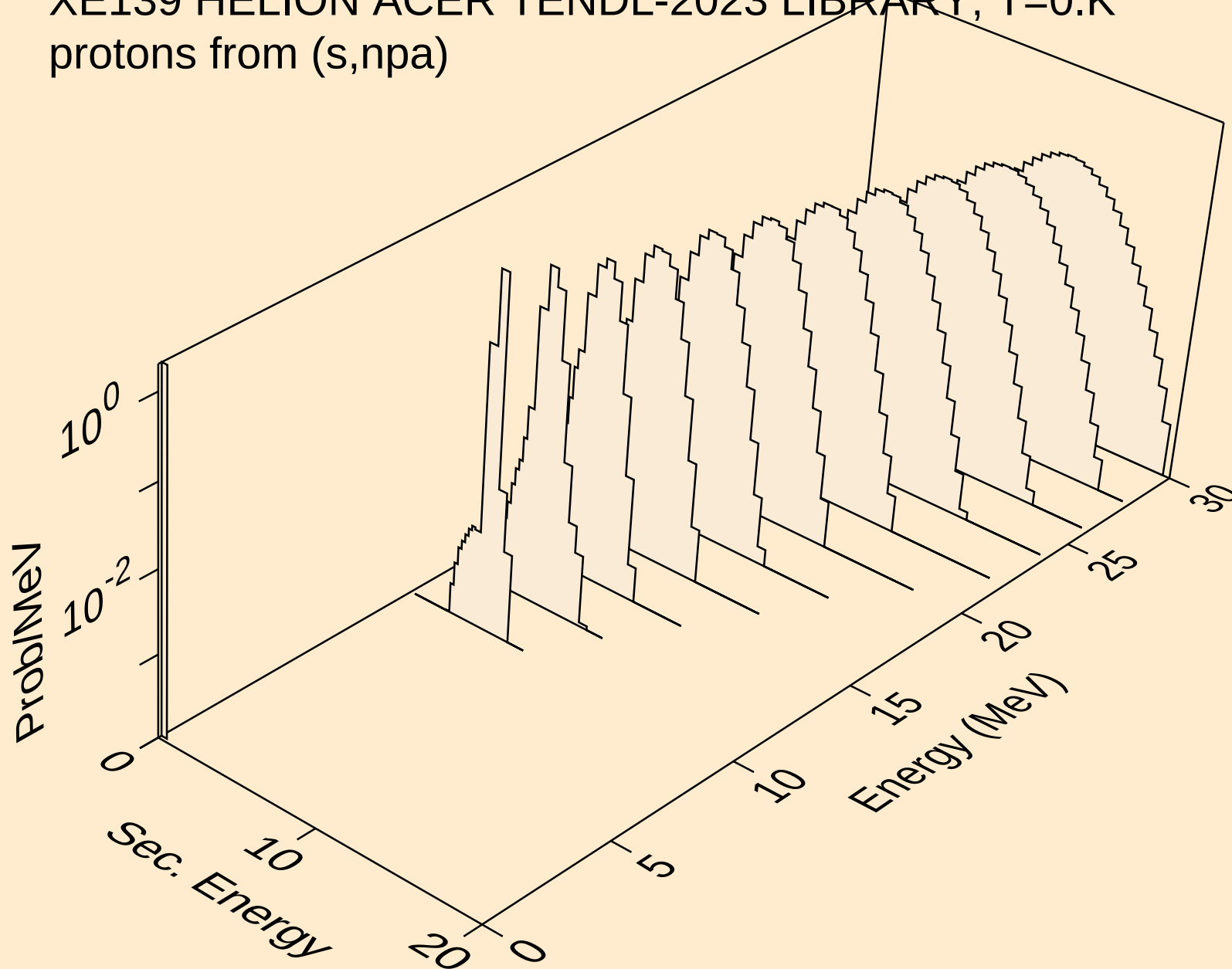
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protons from (s,3np)



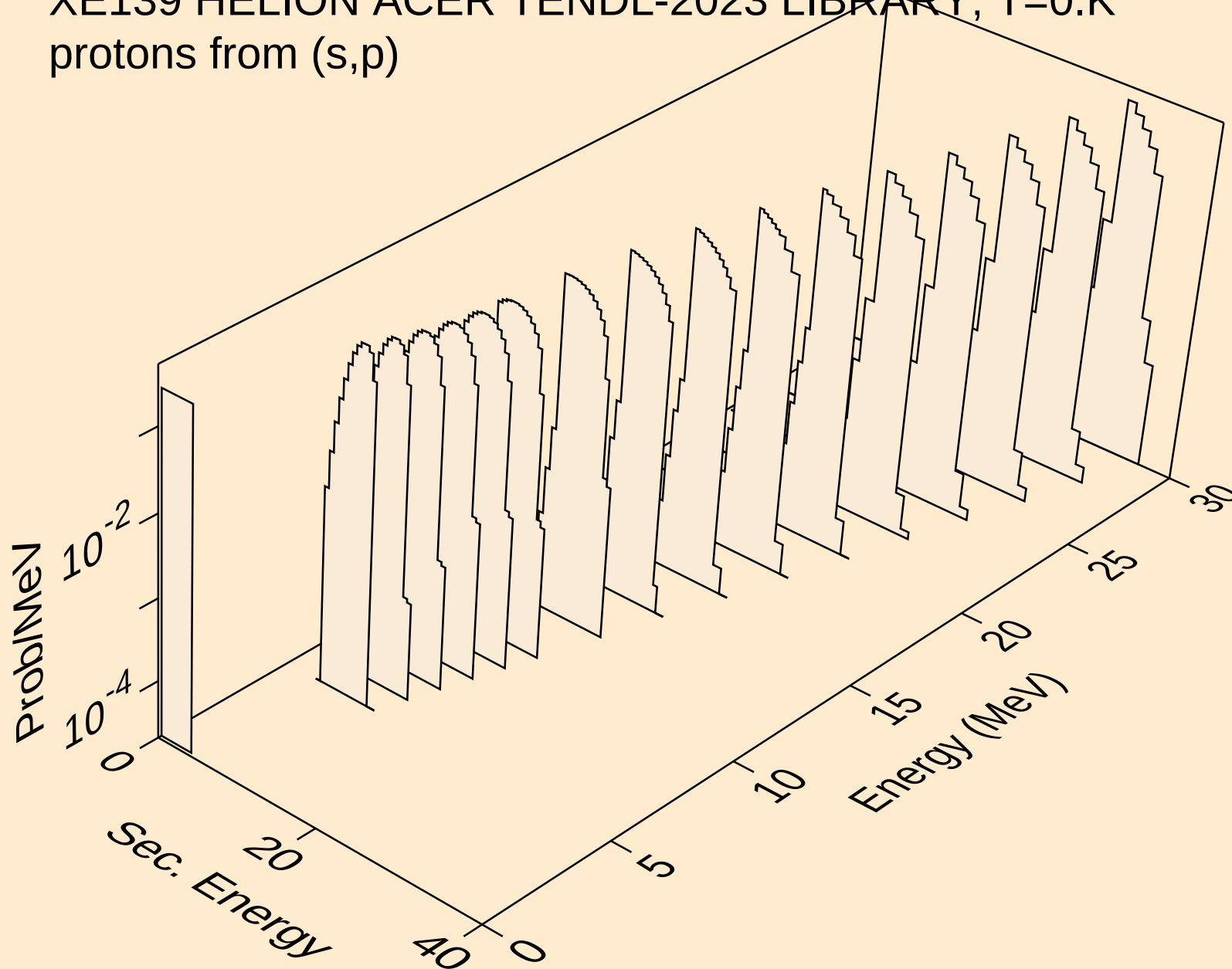
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protons from (s,n2p)



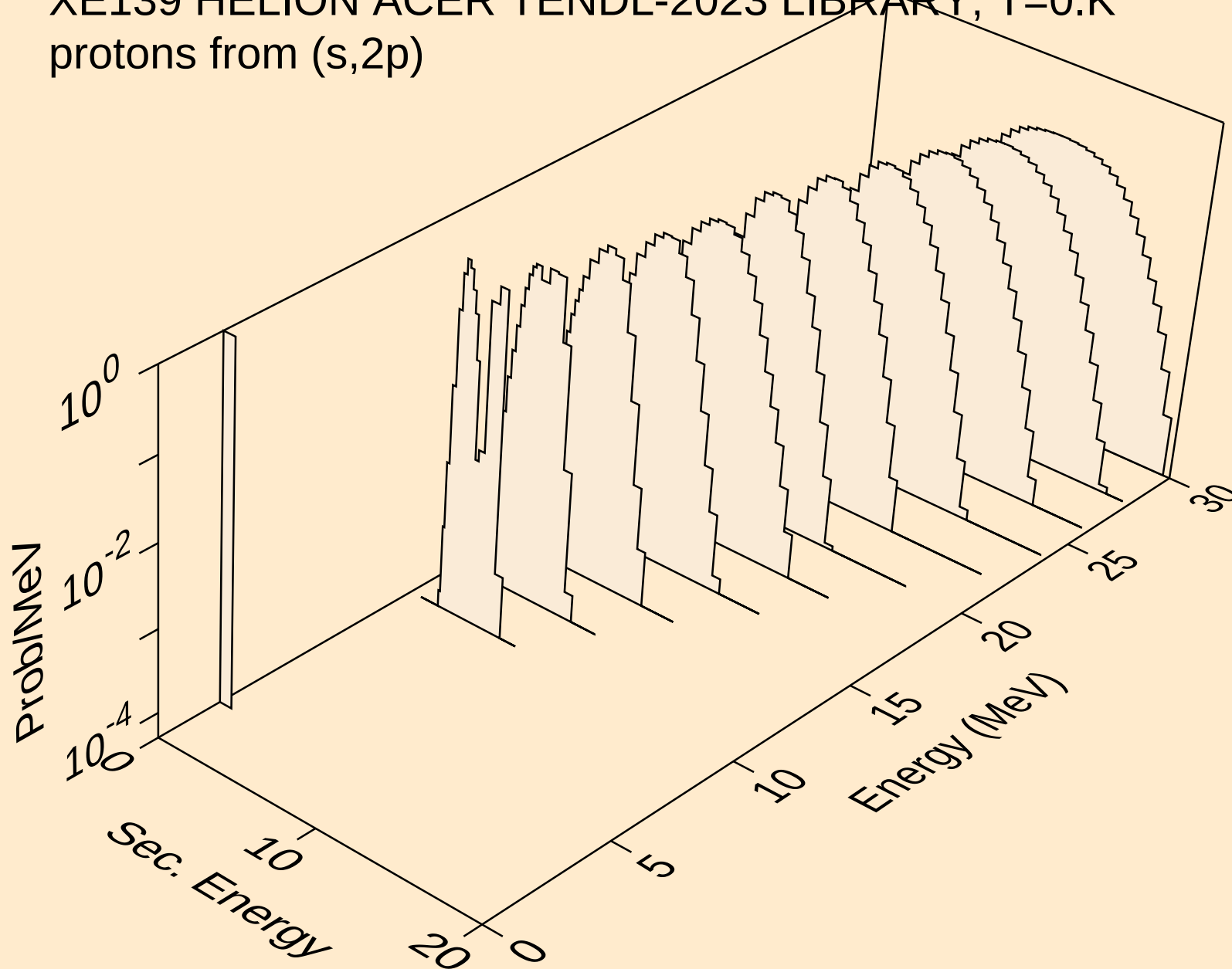
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protons from (s,npa)



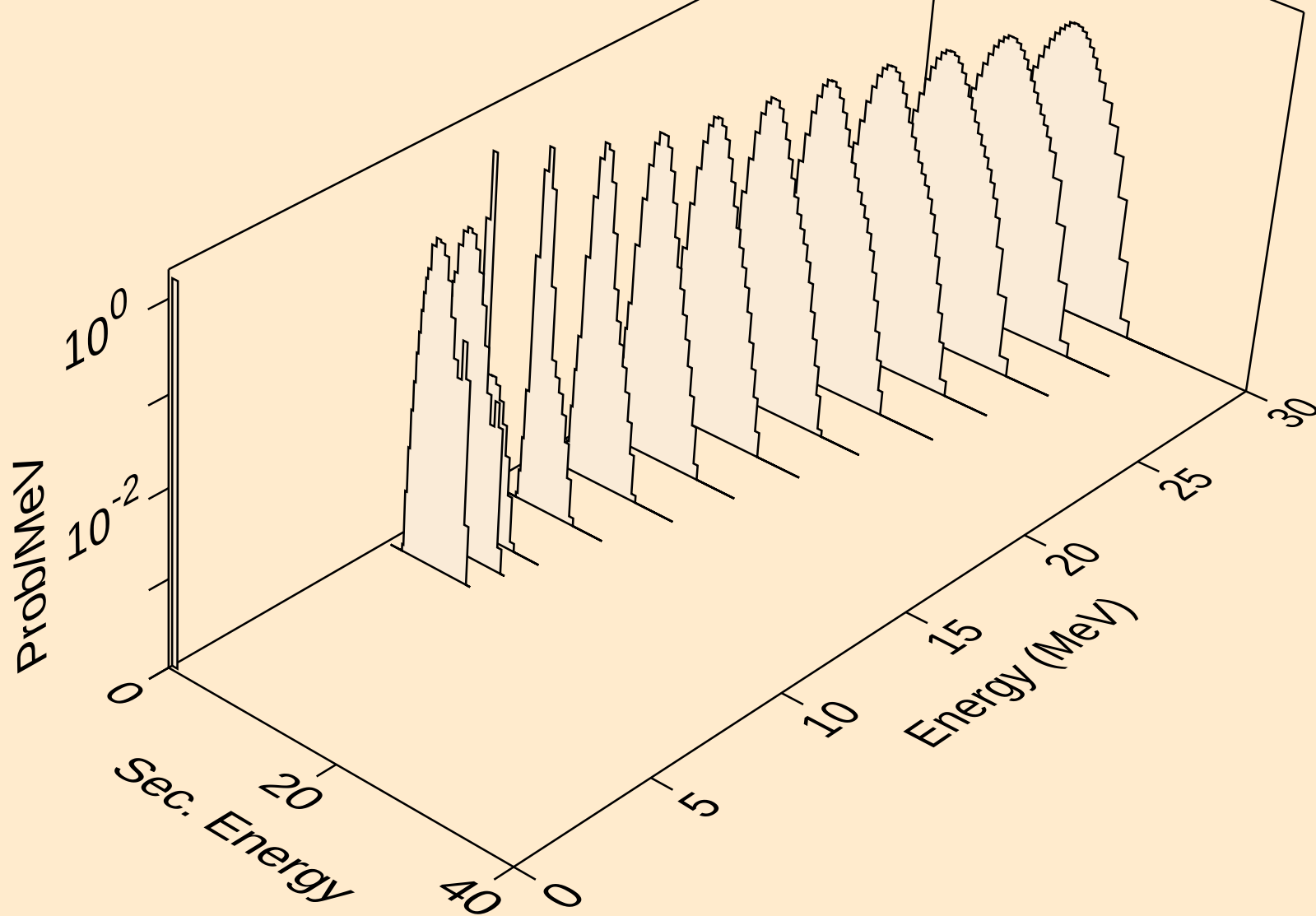
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protons from (s,p)



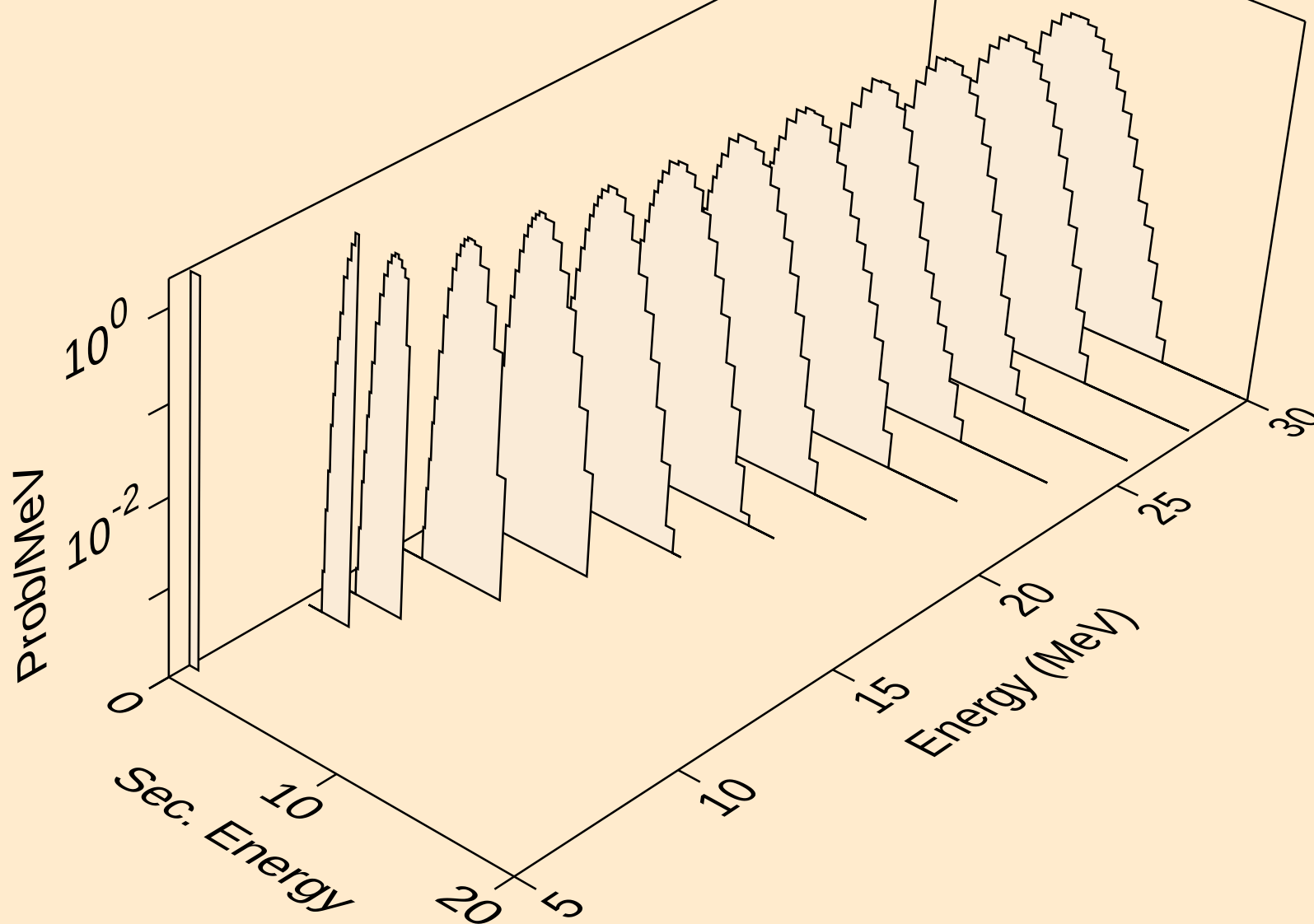
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protons from (s,2p)



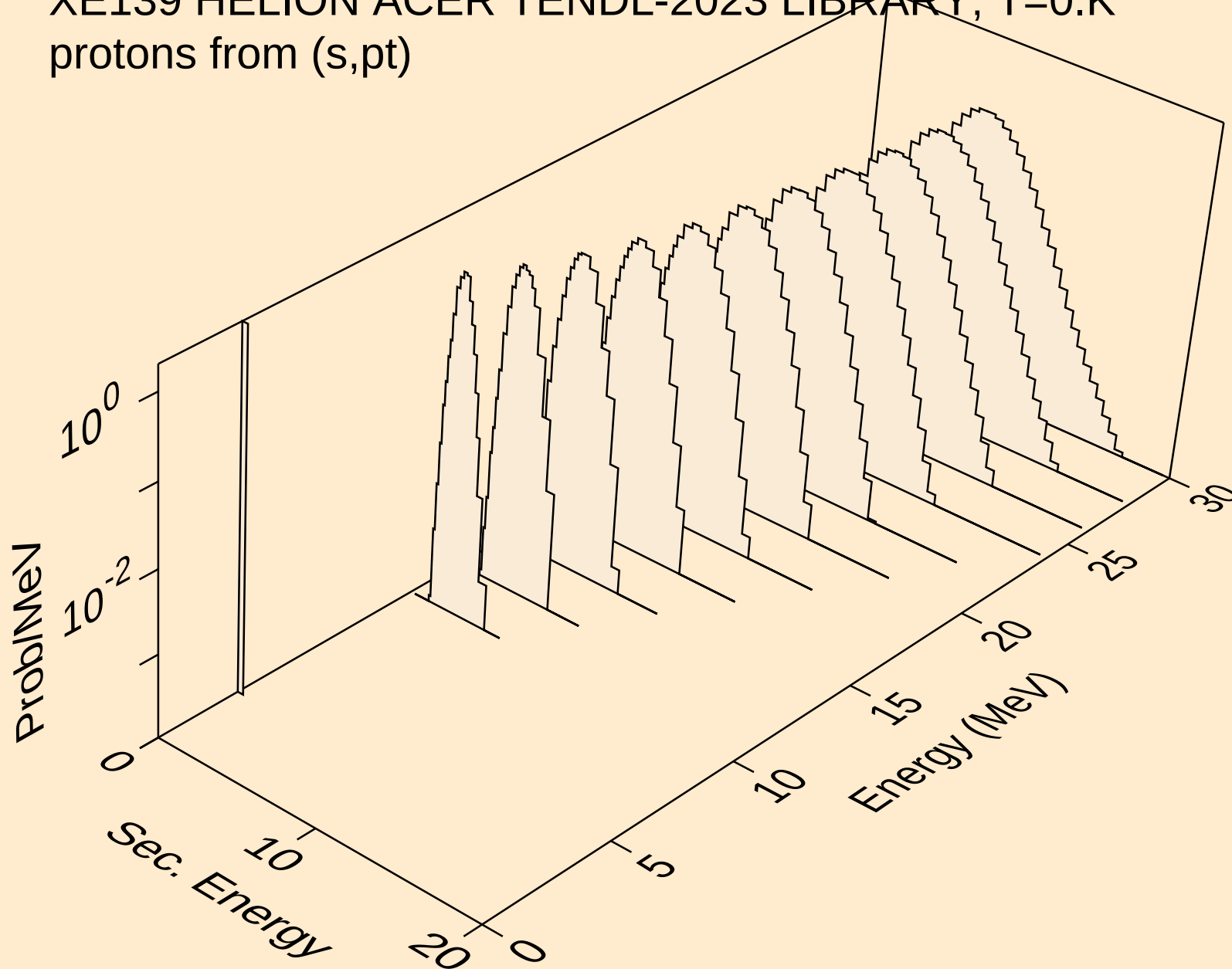
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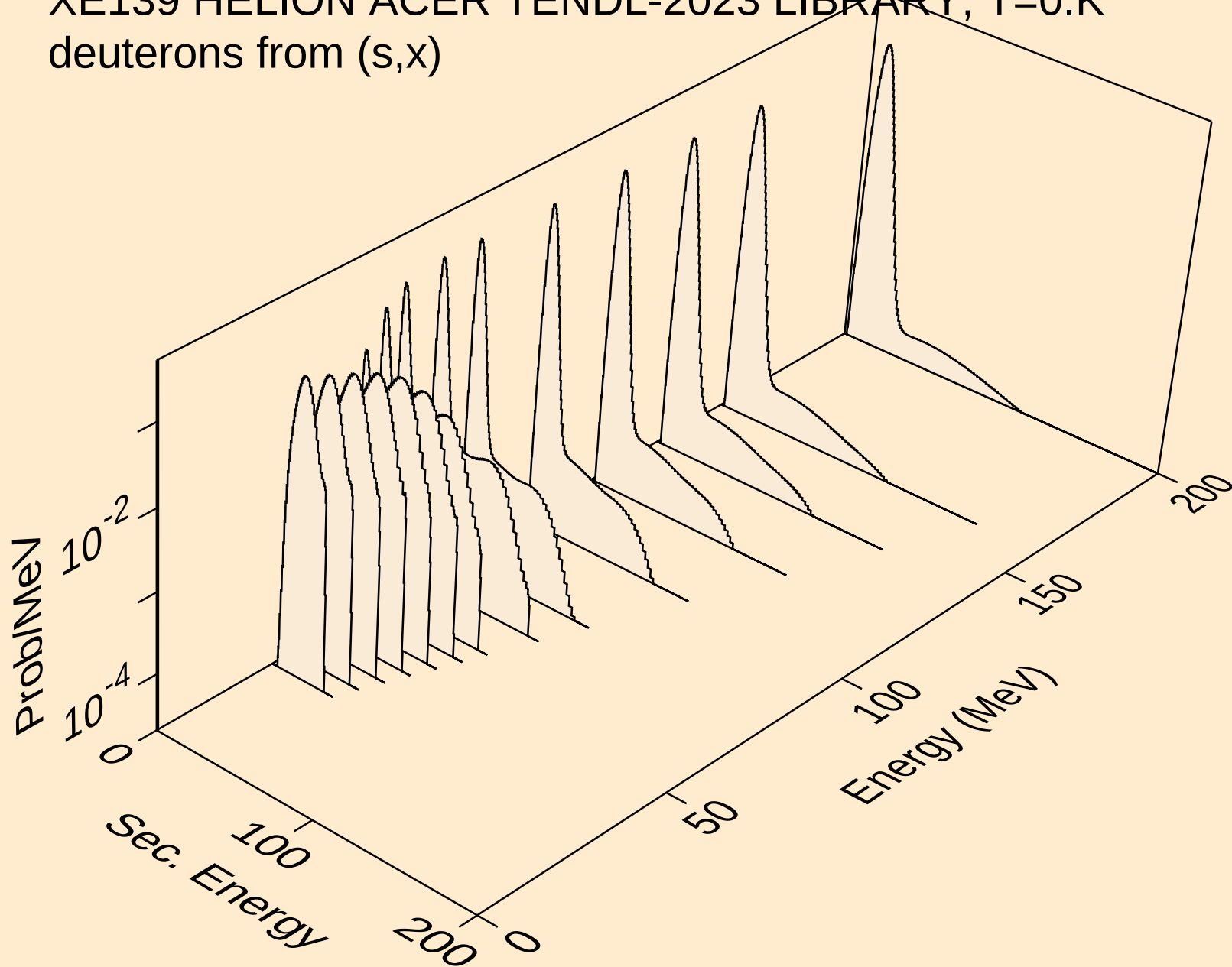
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protons from (s,pd)



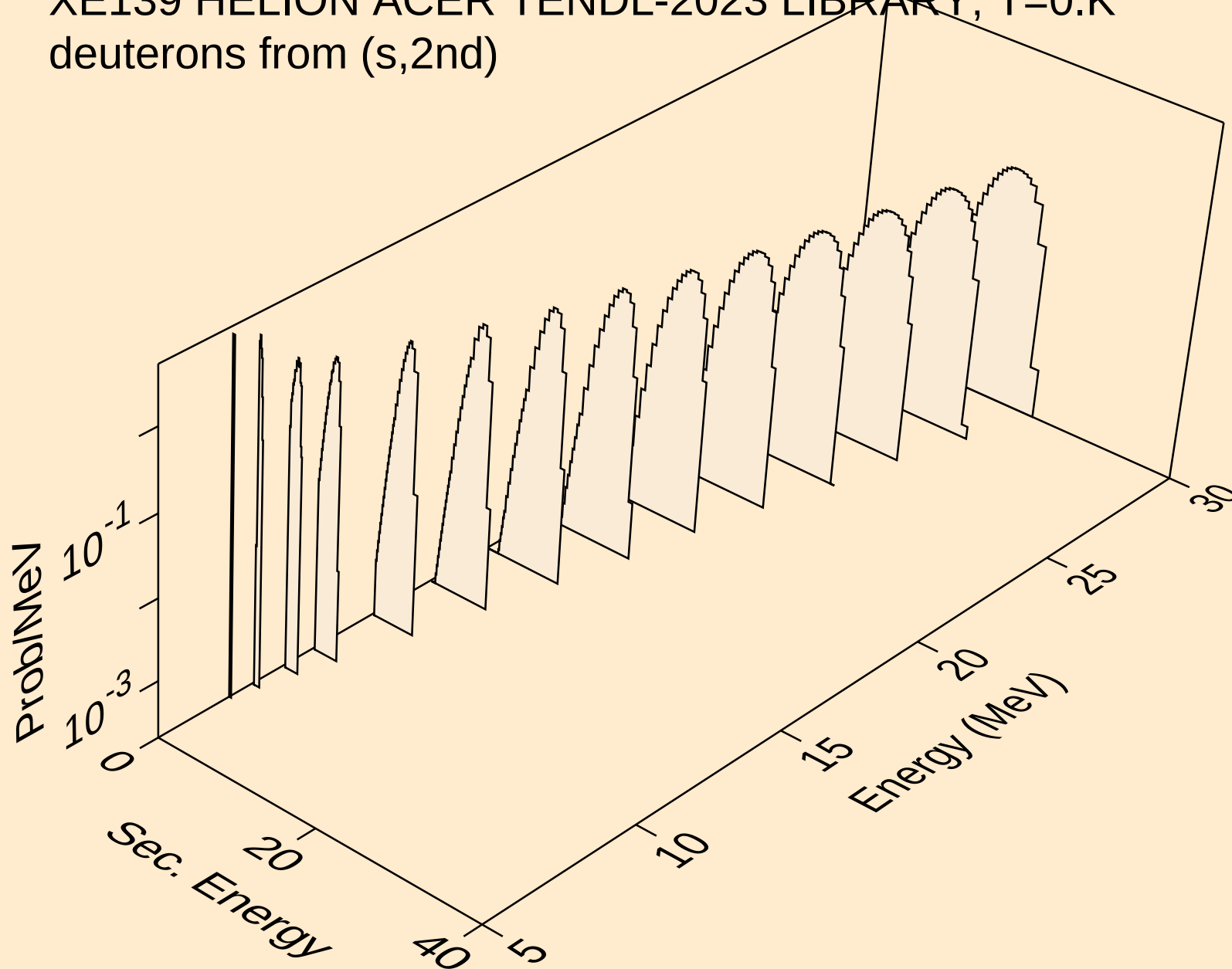
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protons from (s,pt)



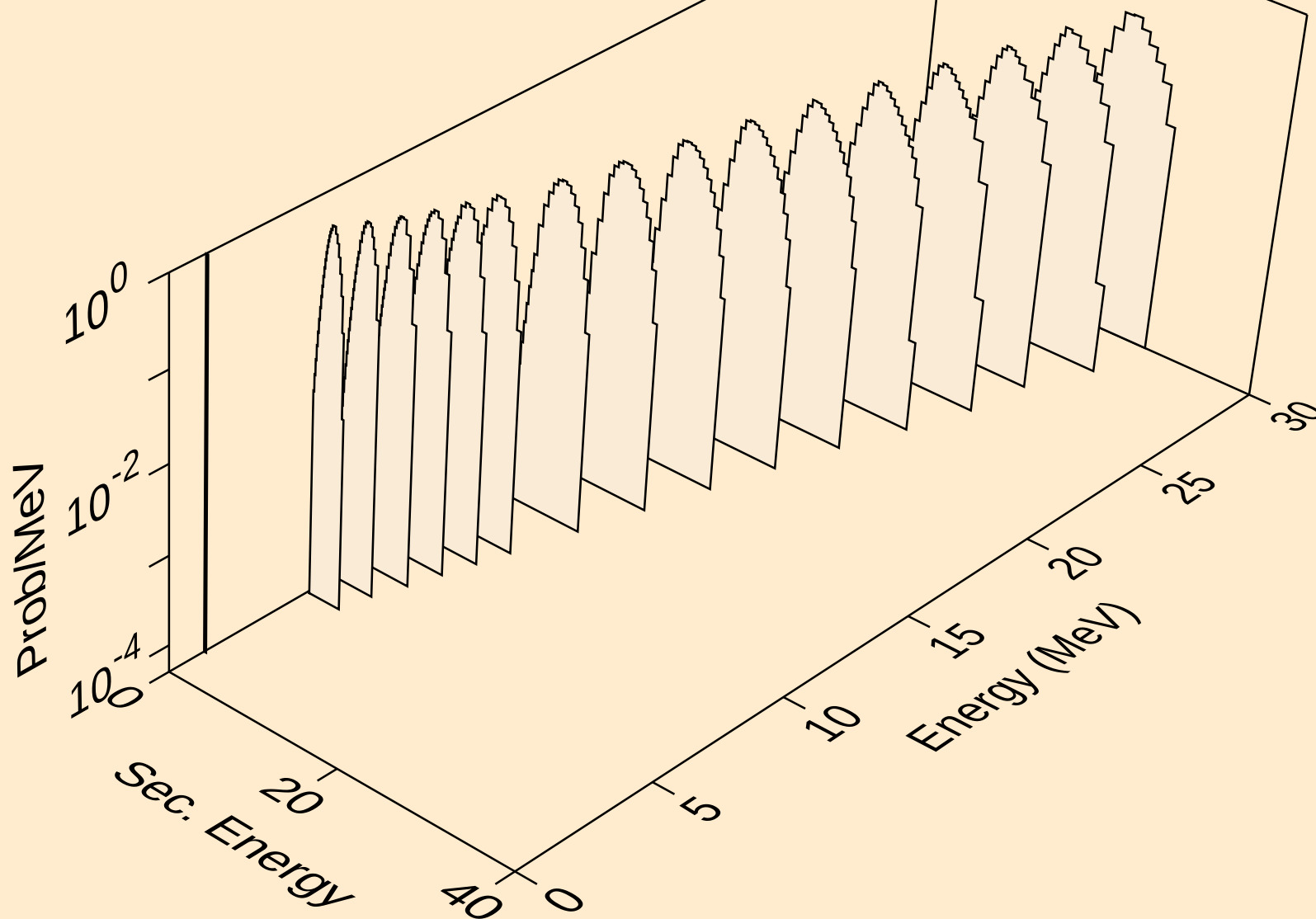
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deuterons from (s,x)



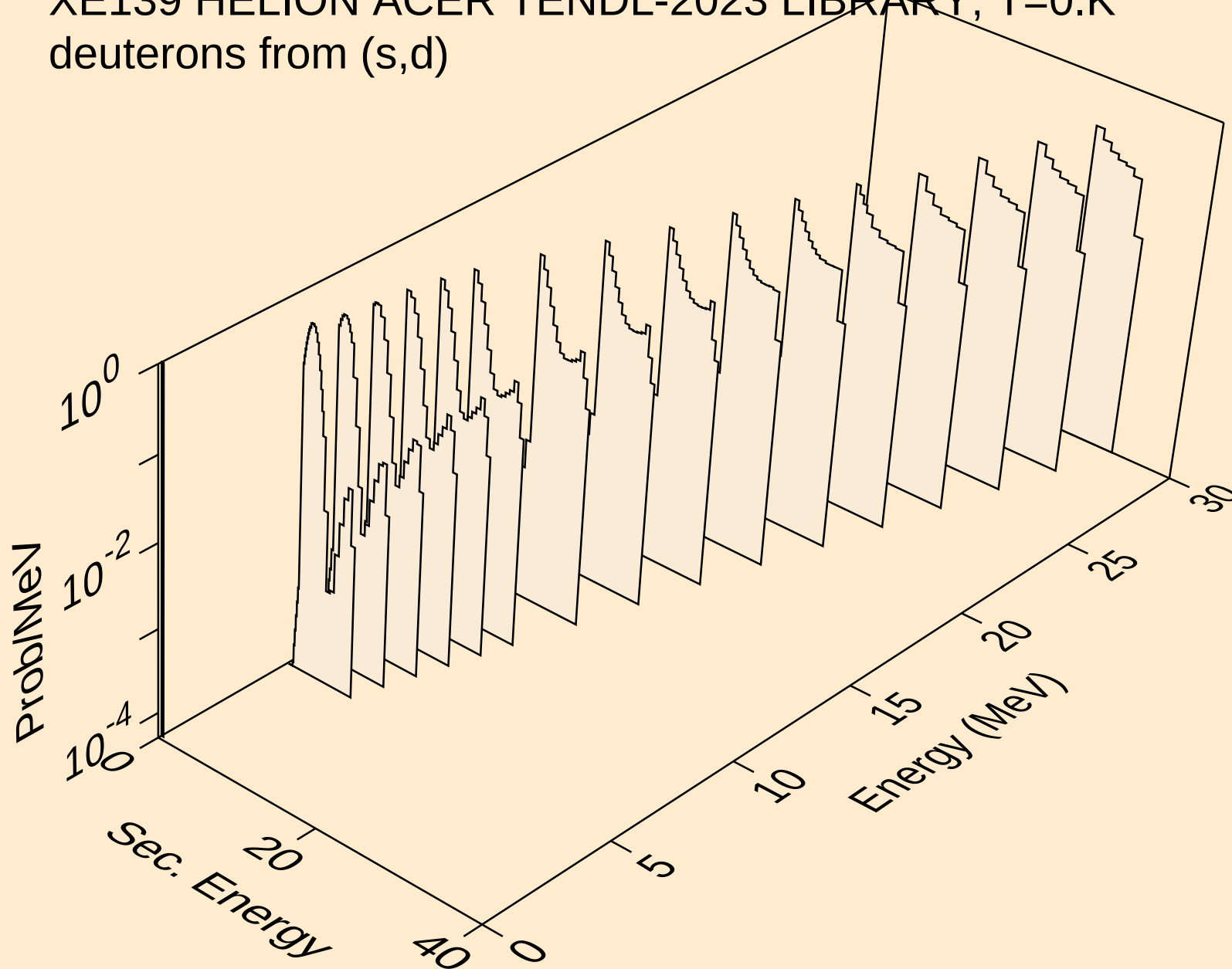
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deuterons from (s,2nd)



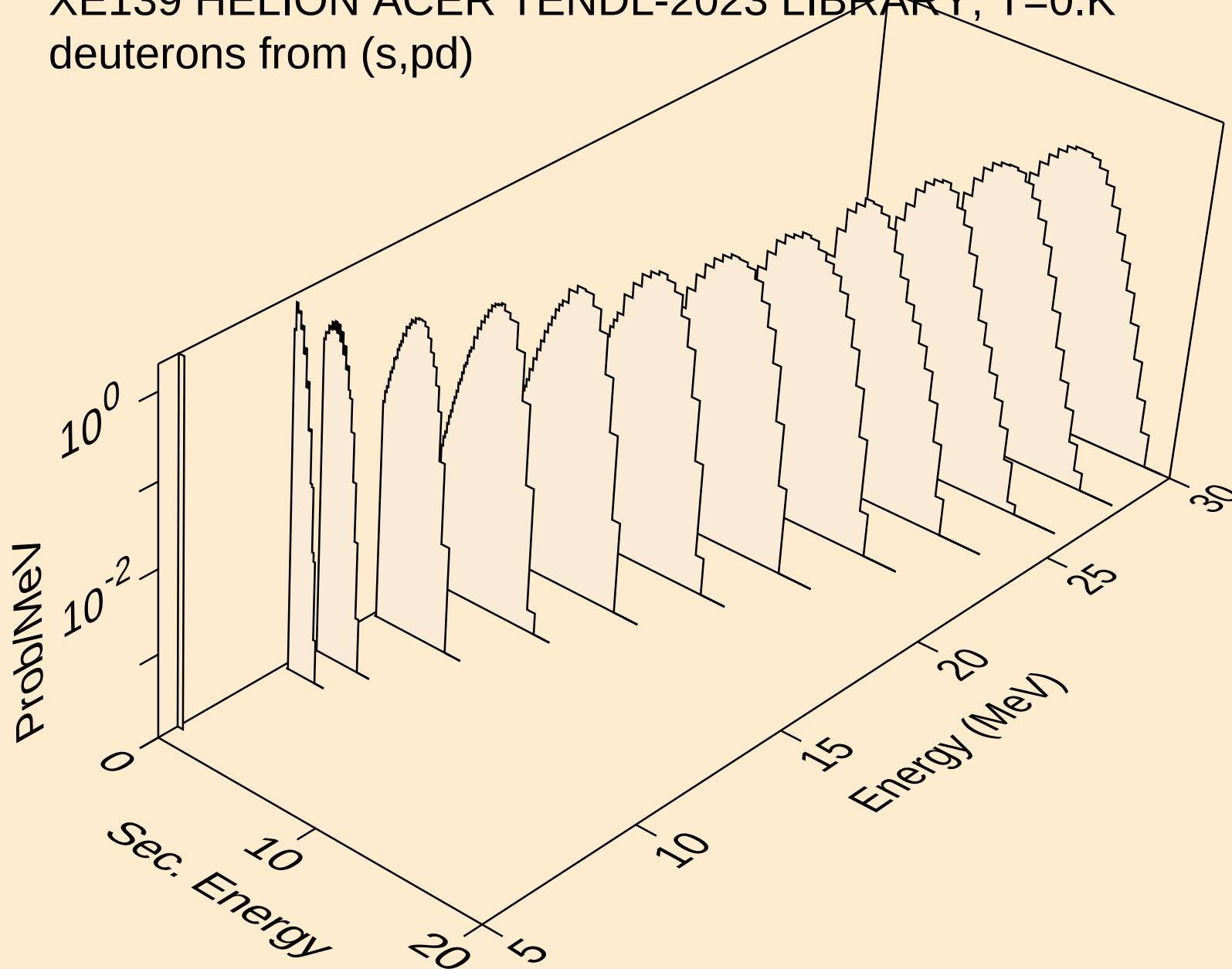
XE139 HELION ACER TENDL-2023 LIBRARY; T=0.K
deuterons from (s,n*)d



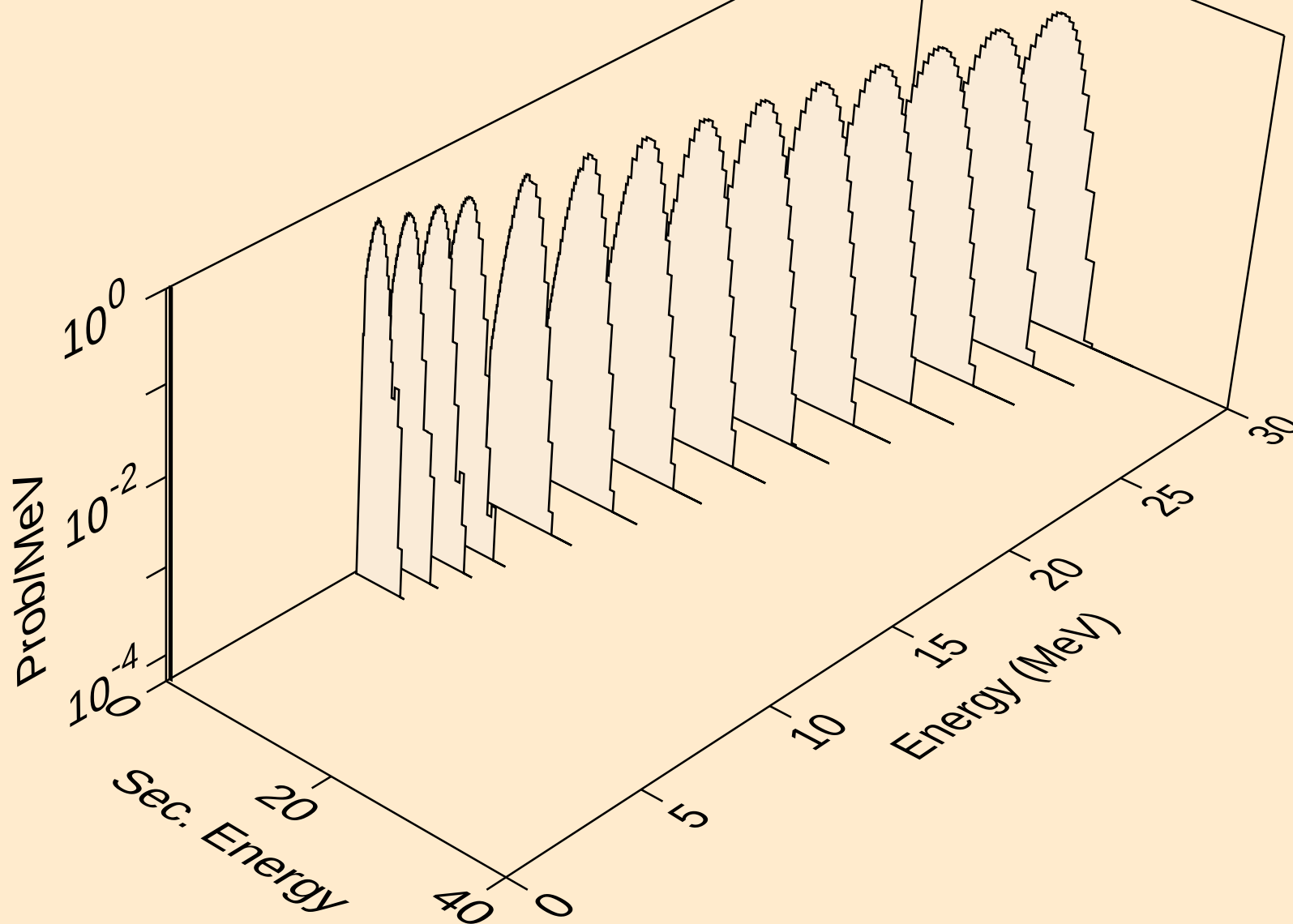
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deuterons from (s,d)



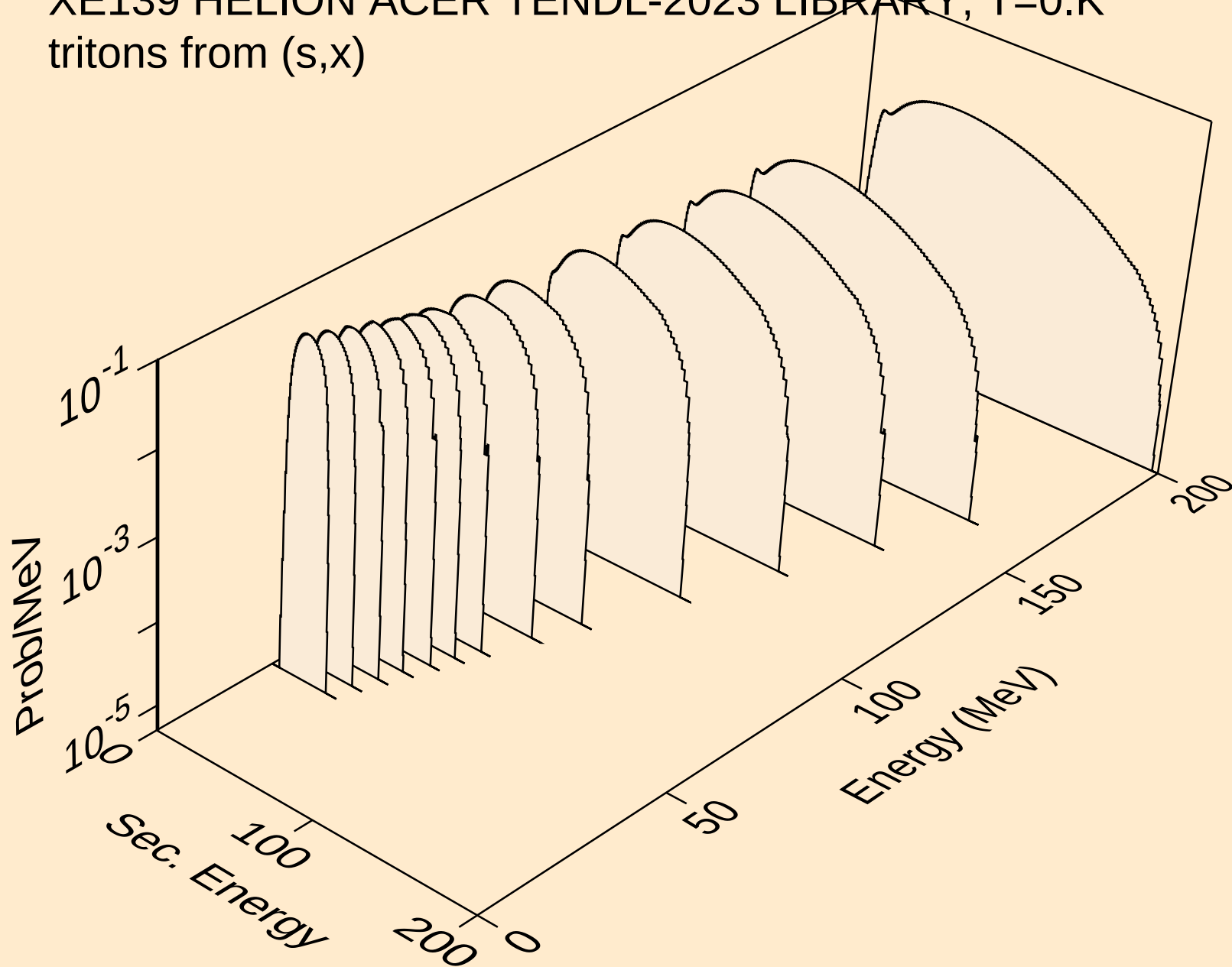
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deuterons from (s,pd)



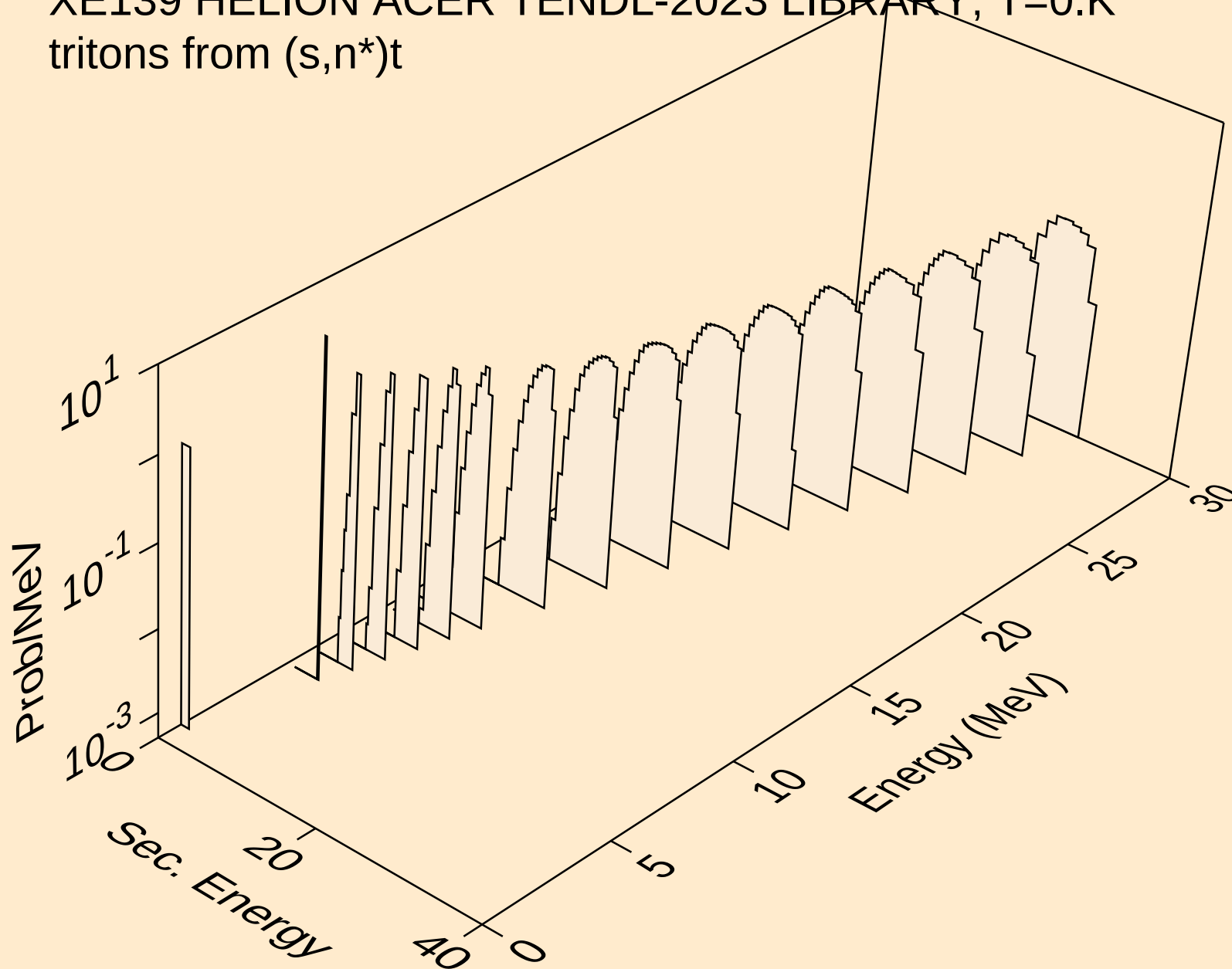
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deuterons from (s,da)



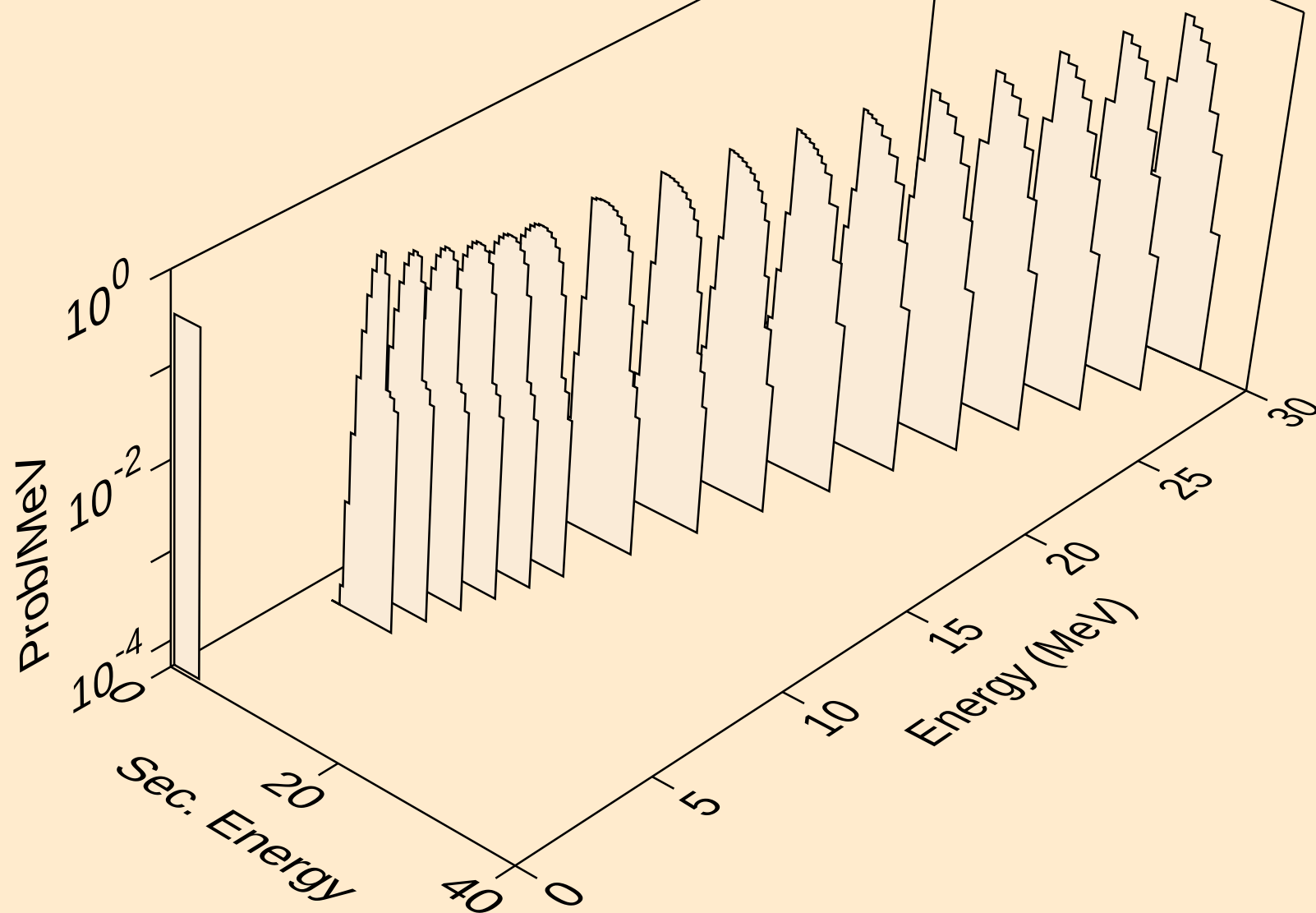
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tritons from (s,x)



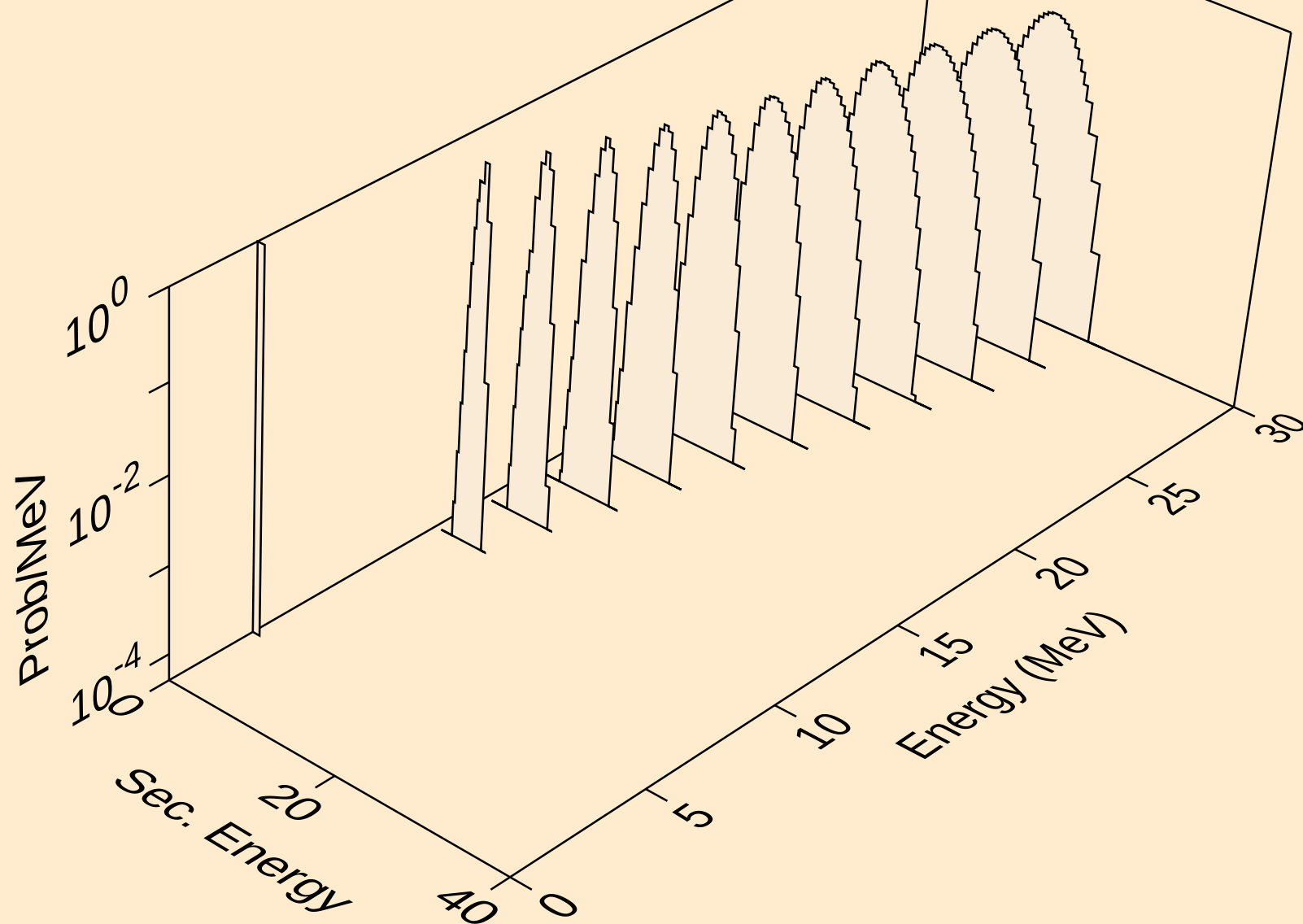
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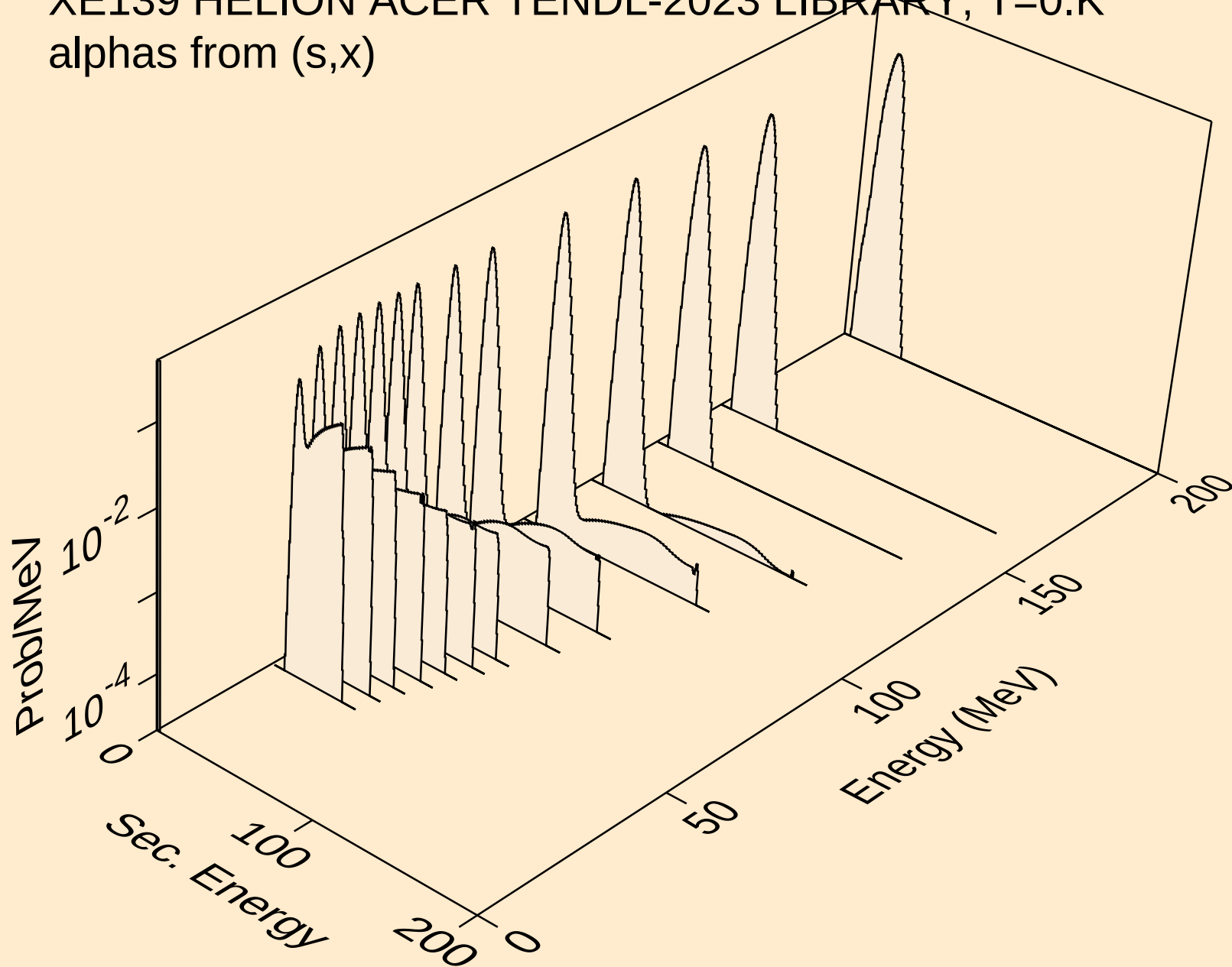
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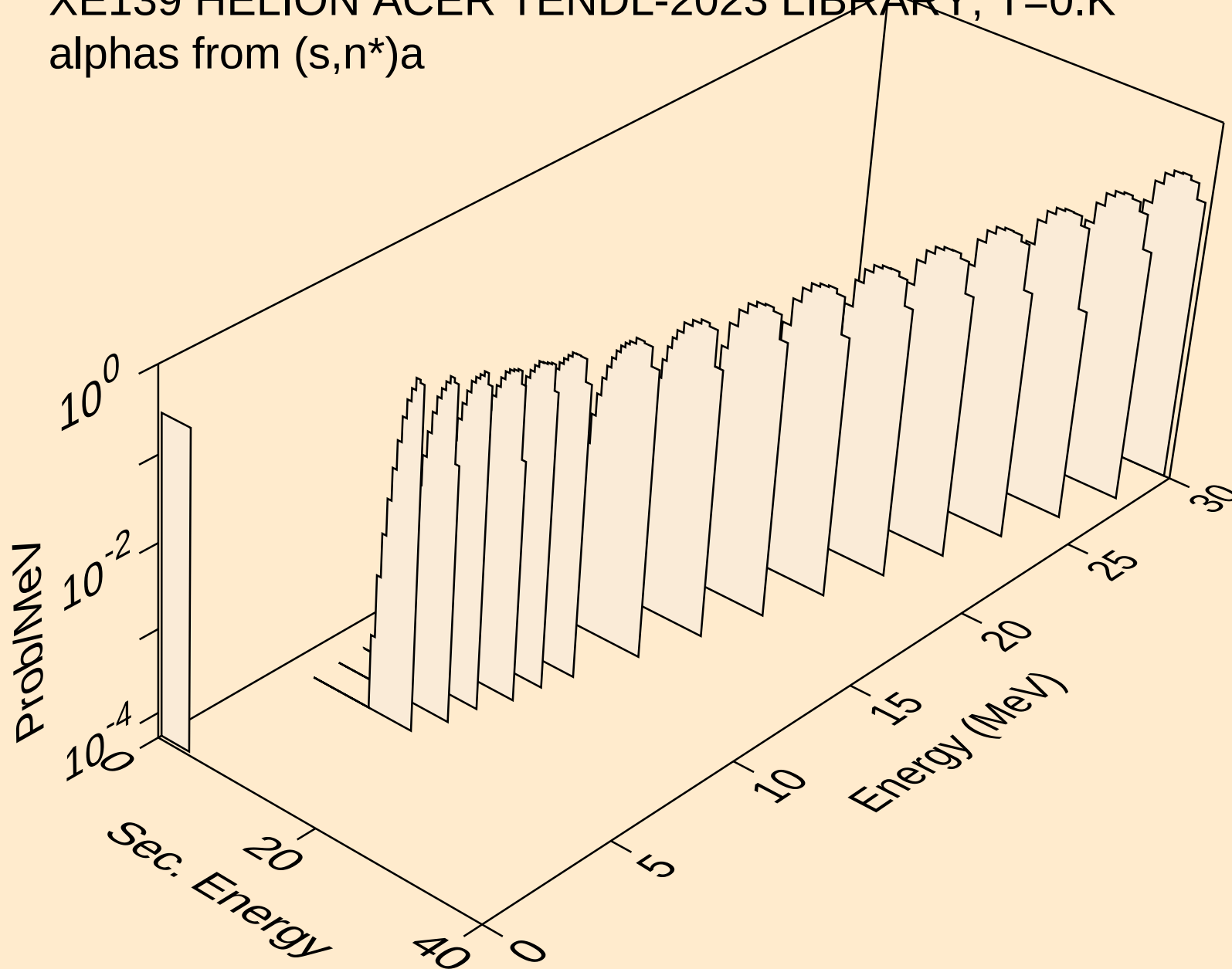
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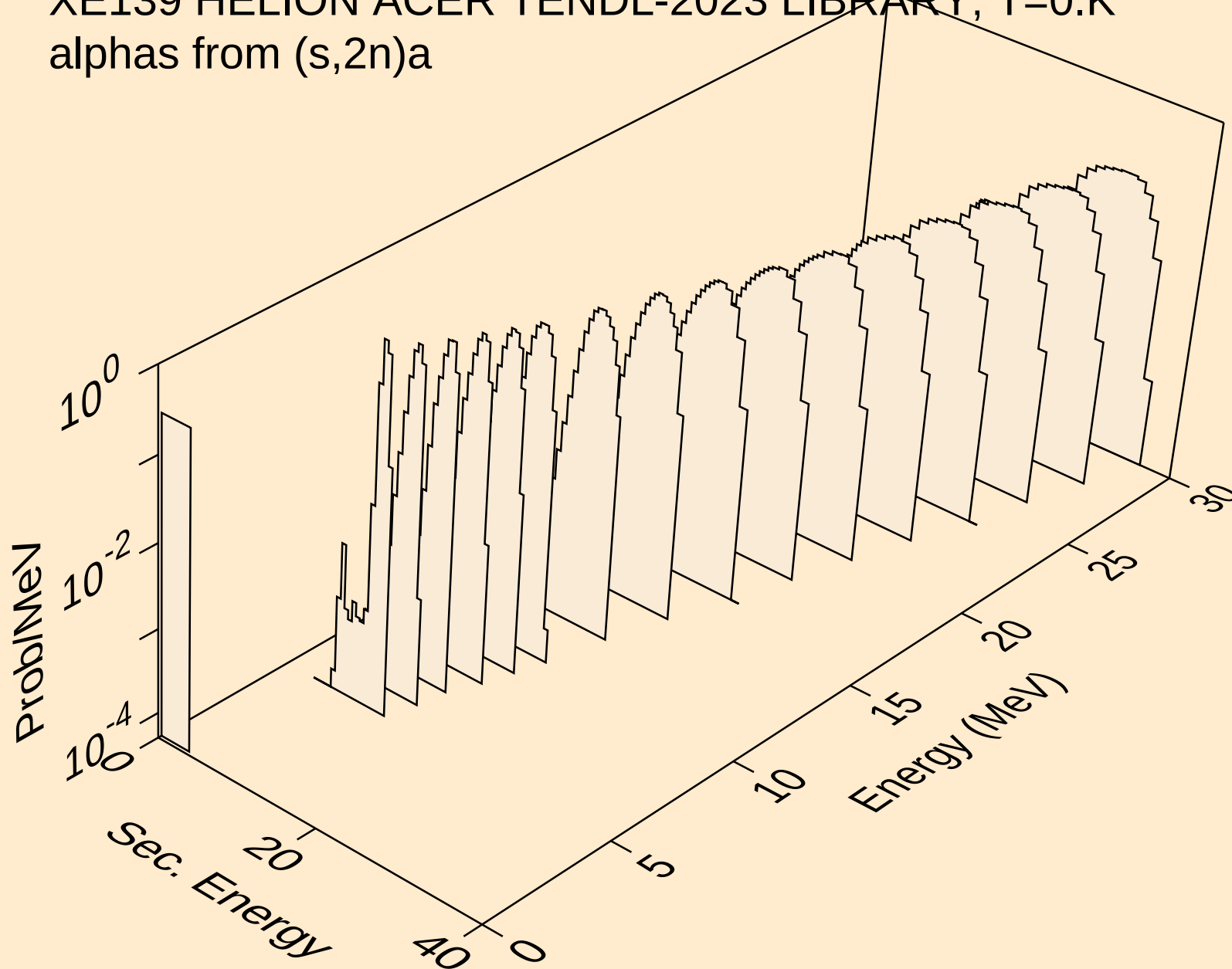
XE139 HELION ACER TENDL-2023 LIBRARY; T=0.K
alphas from (s,x)



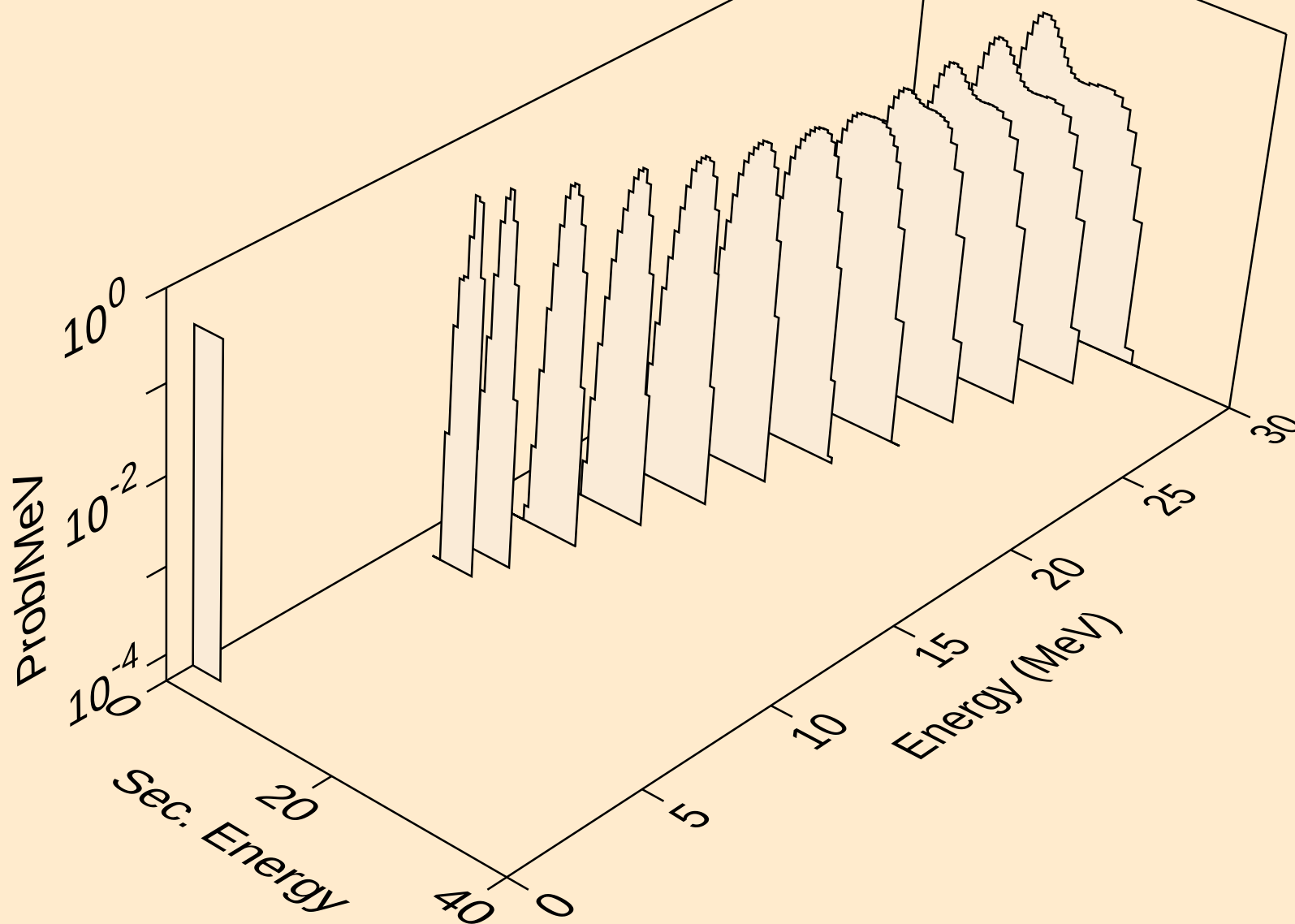
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alphas from (s,n*)a



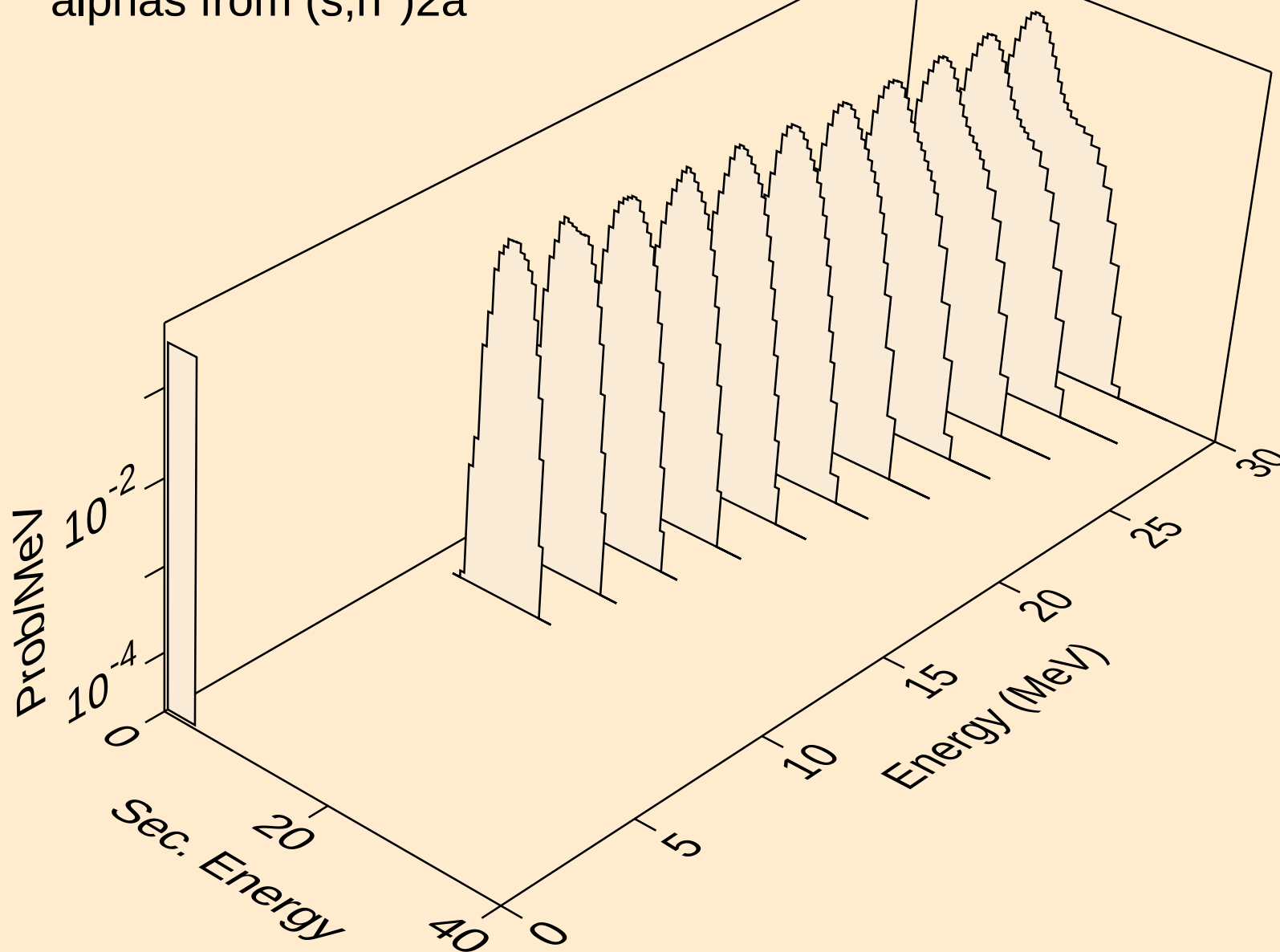
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alphas from (s,2n)a



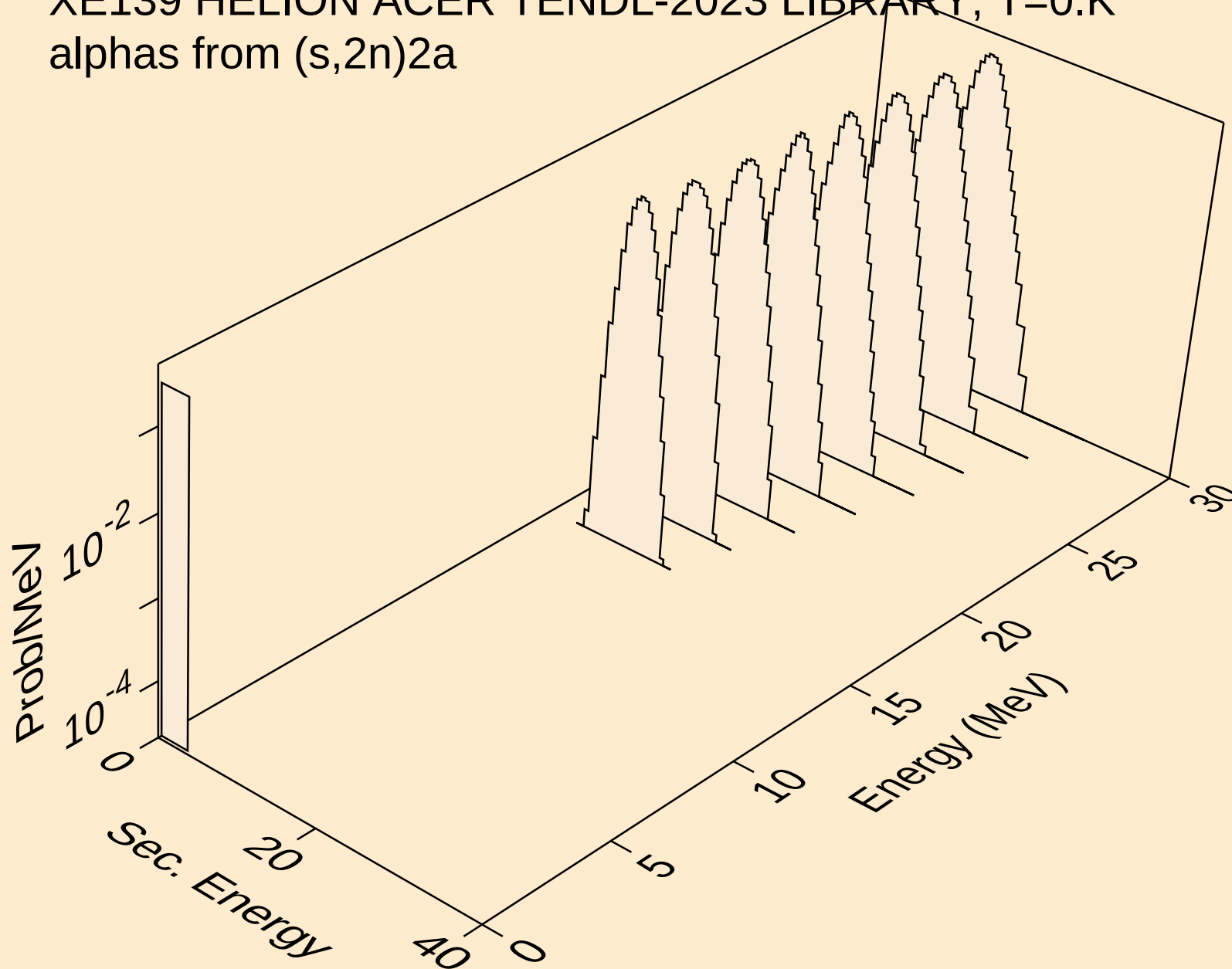
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alphas from (s,3n)a



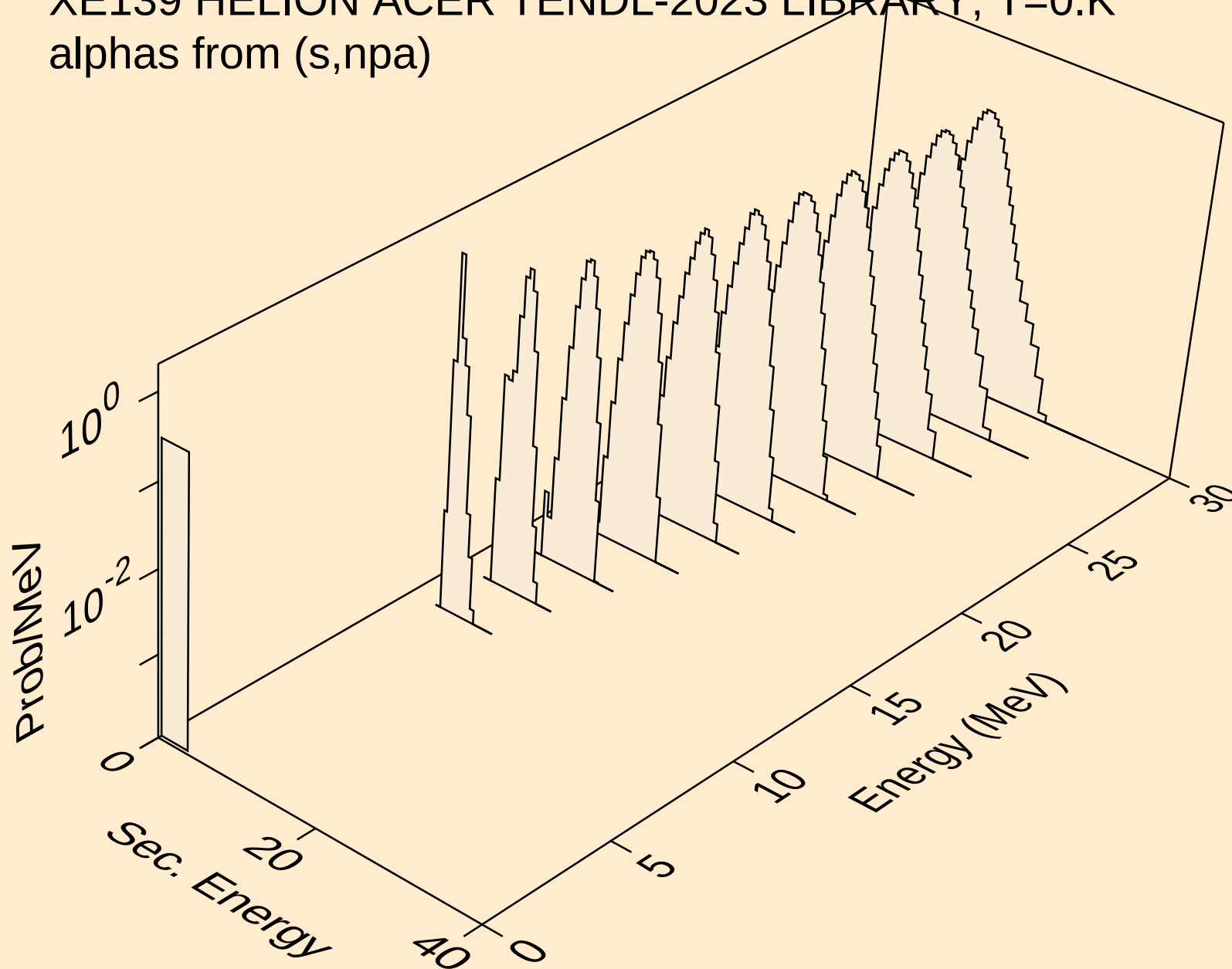
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alphas from (s,n*)2a



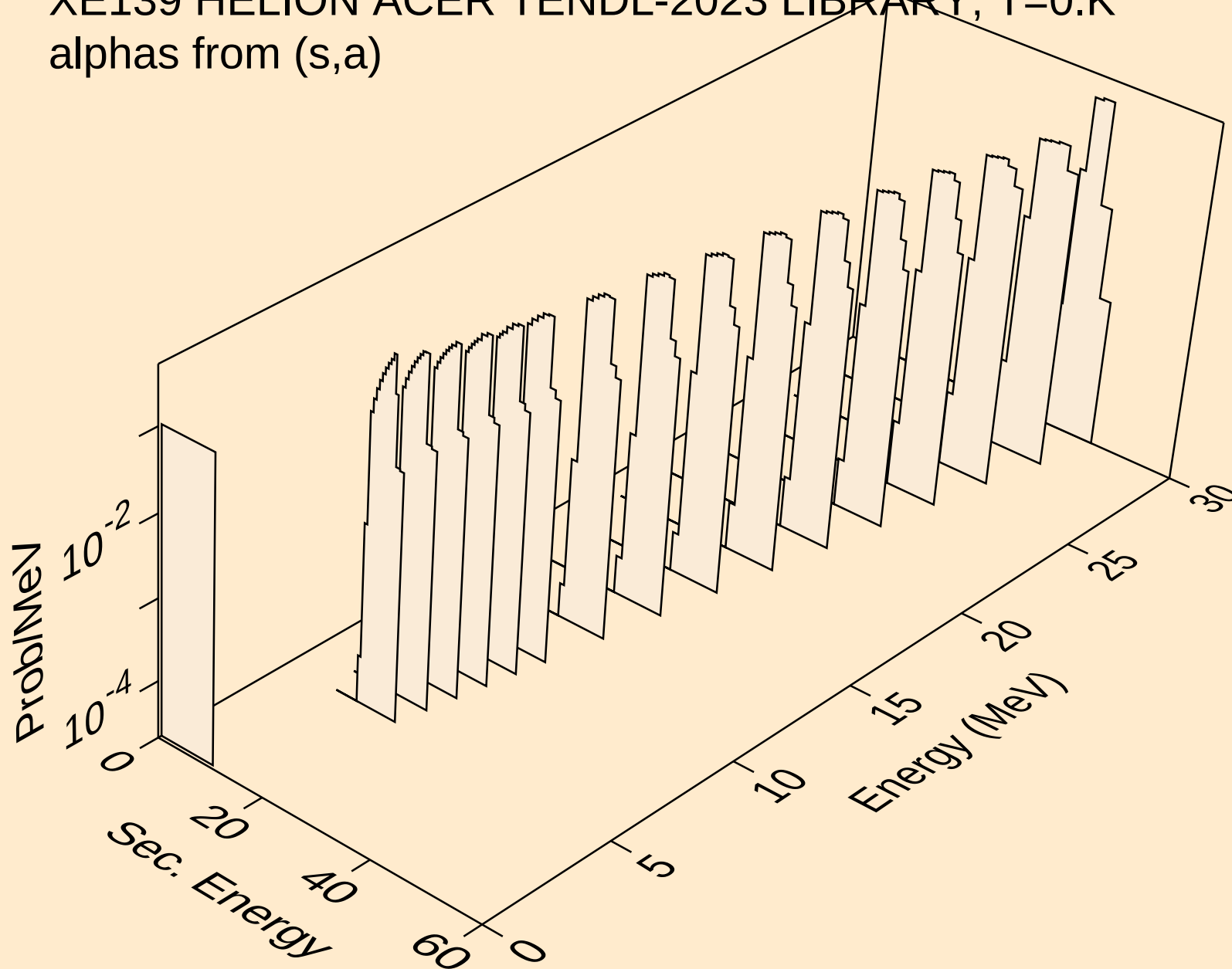
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alphas from (s,2n)2a



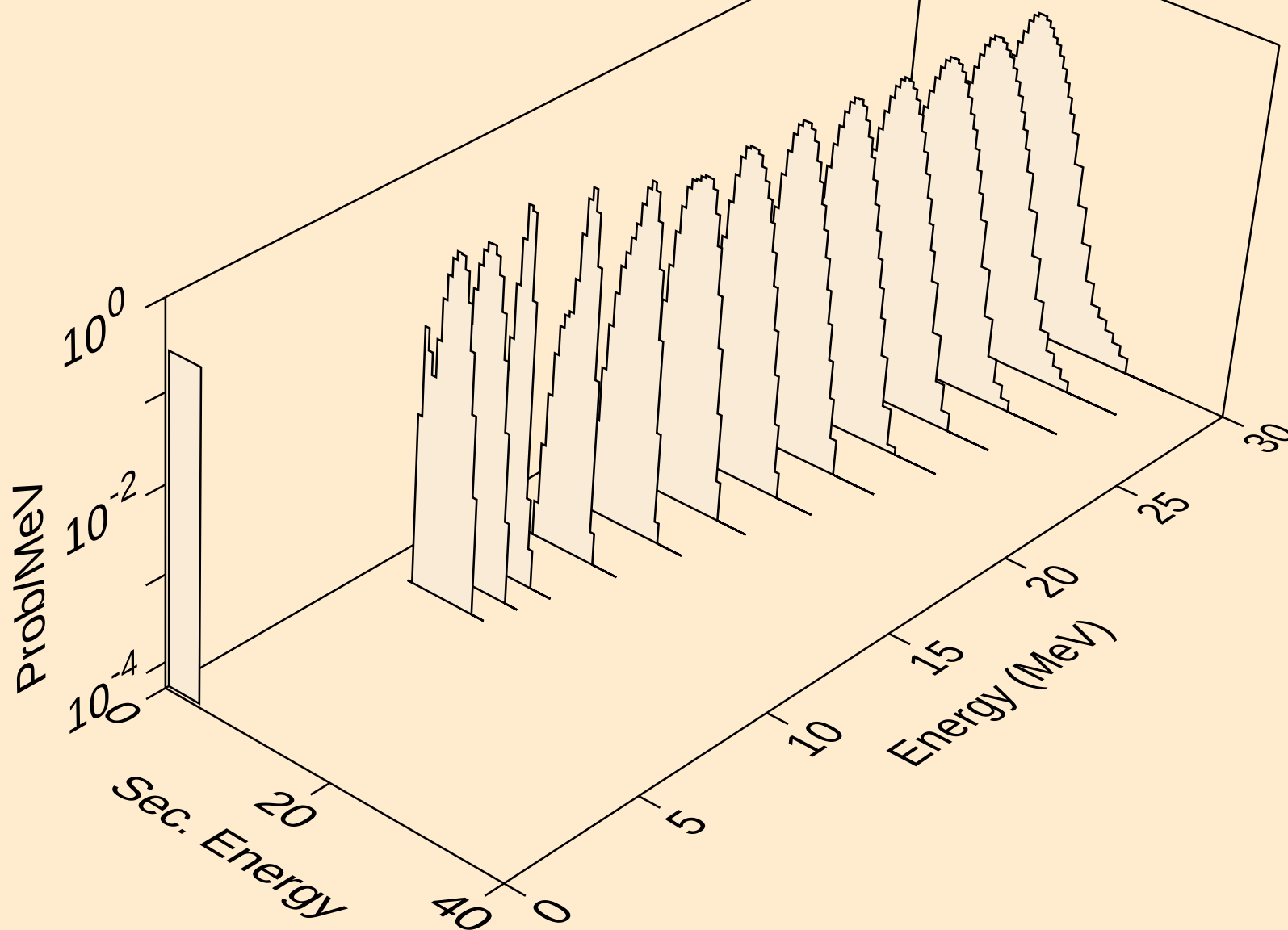
XE139 HELION ACER TENDL-2023 LIBRARY; T=0.K
alphas from (s,npa)



XE139 HELION ACER TENDL-2023 LIBRARY; T=0.K
alphas from (s,a)



XE139 HELION ACER TENDL-2023 LIBRARY; T=0.K
alphas from (s,pa)



XE139 HELION ACER TENDL-2023 LIBRARY; T=0.K
alphas from (s,da)

