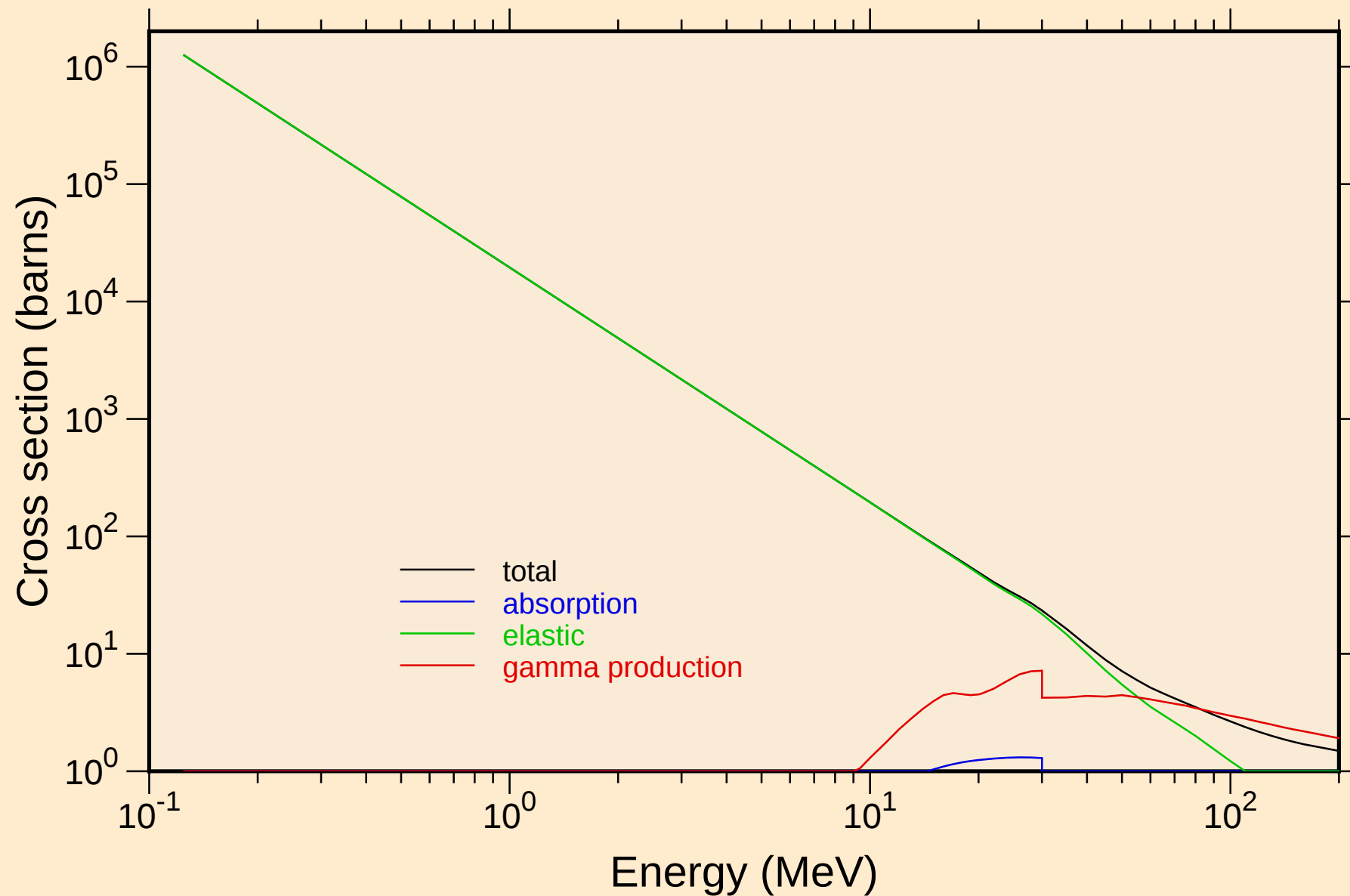


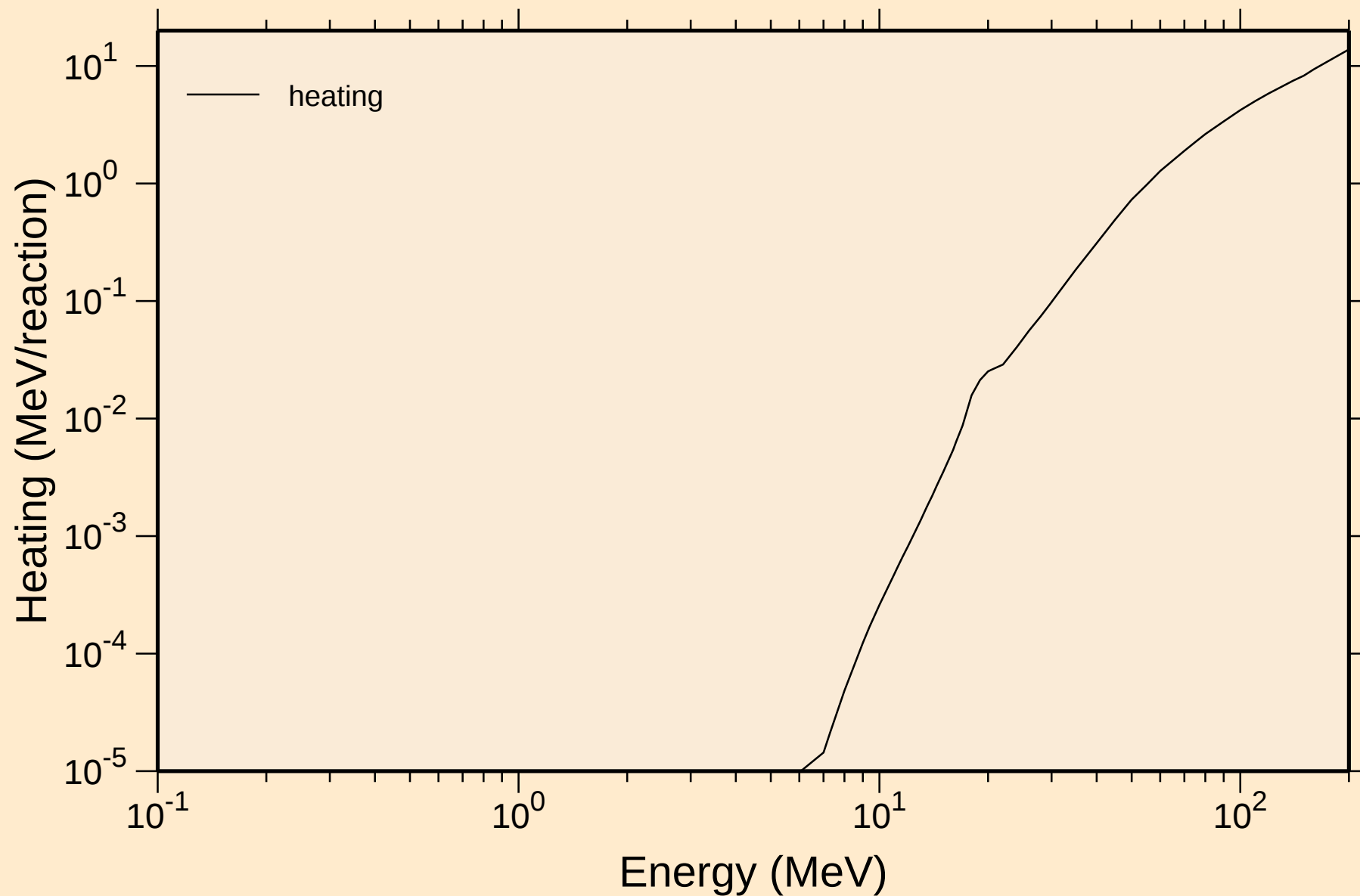
BA139 PROTON ACER TENDL-2023 LIBRARY; T=0.K

Principal cross sections



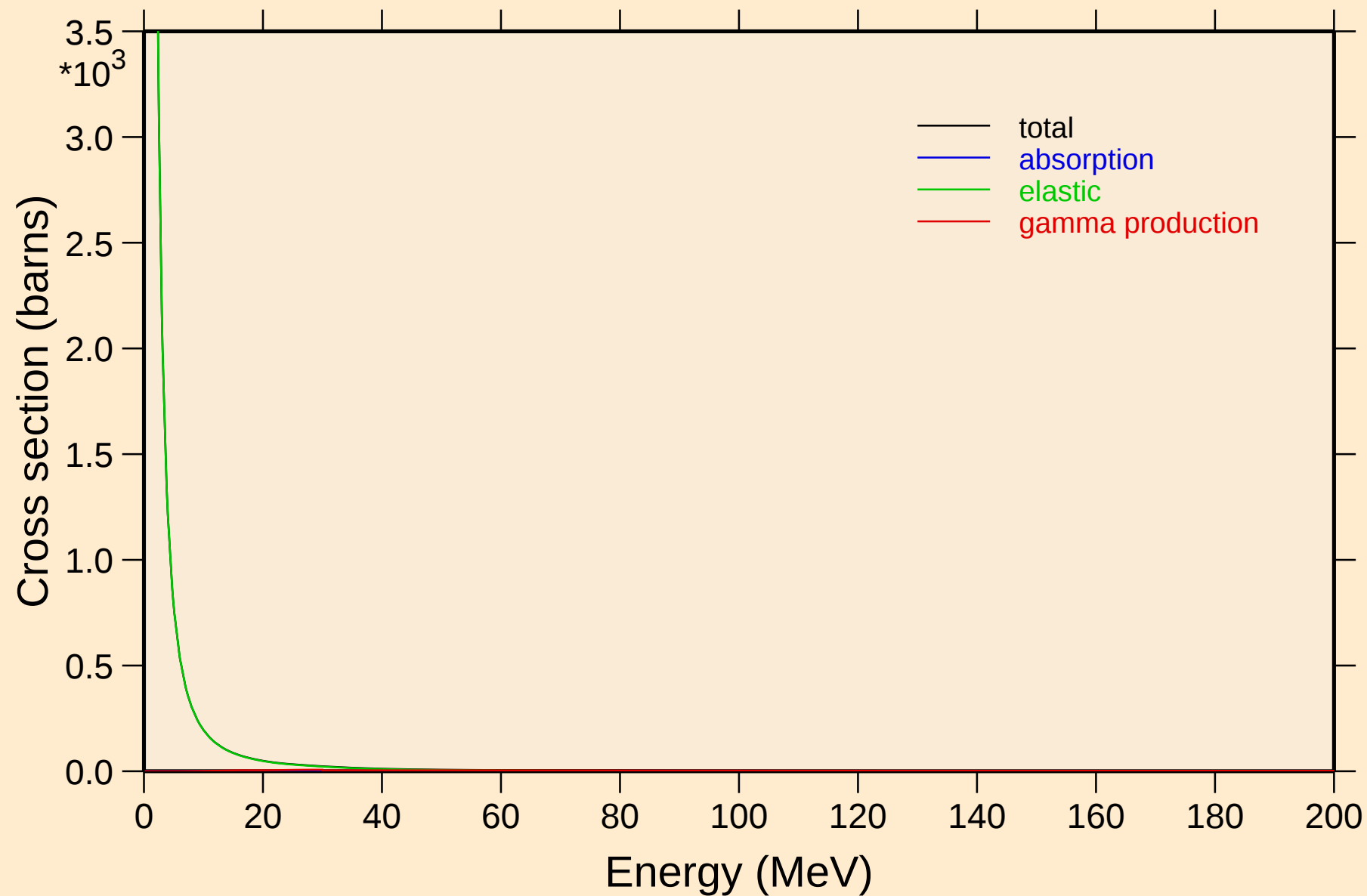
BA139 PROTON ACER TENDL-2023 LIBRARY; T=0.K

Heating



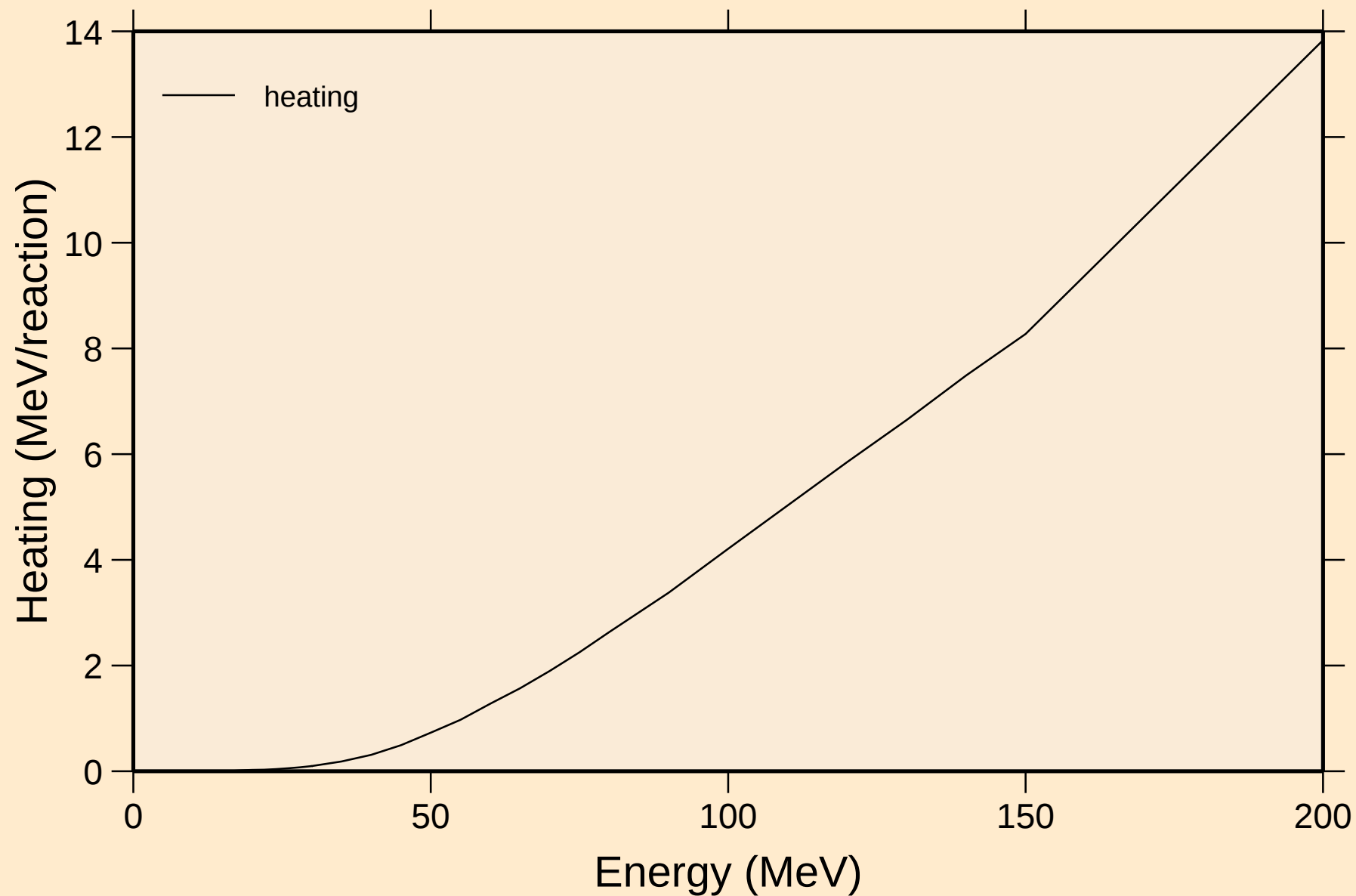
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Principal cross sections



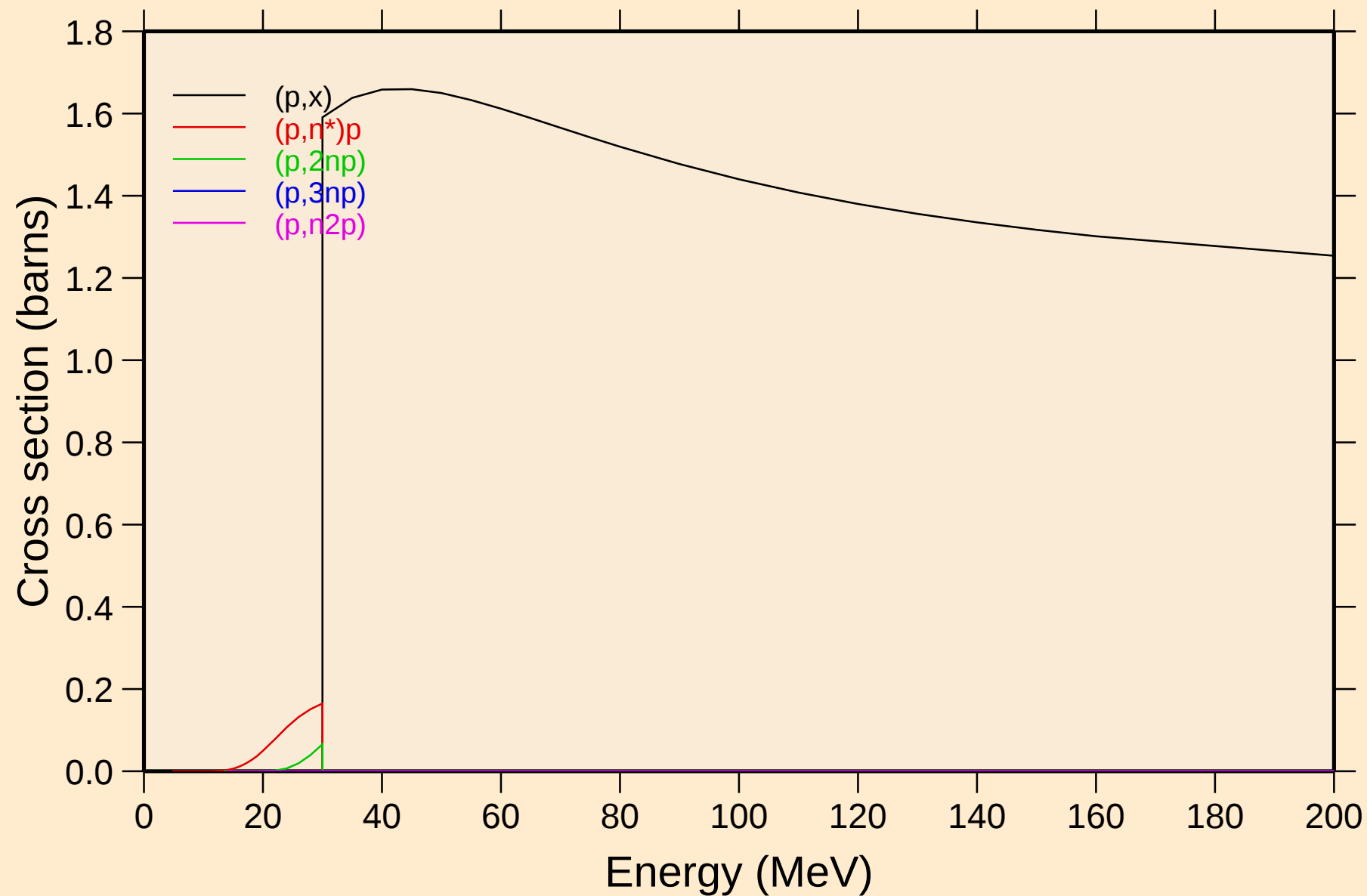
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Heating



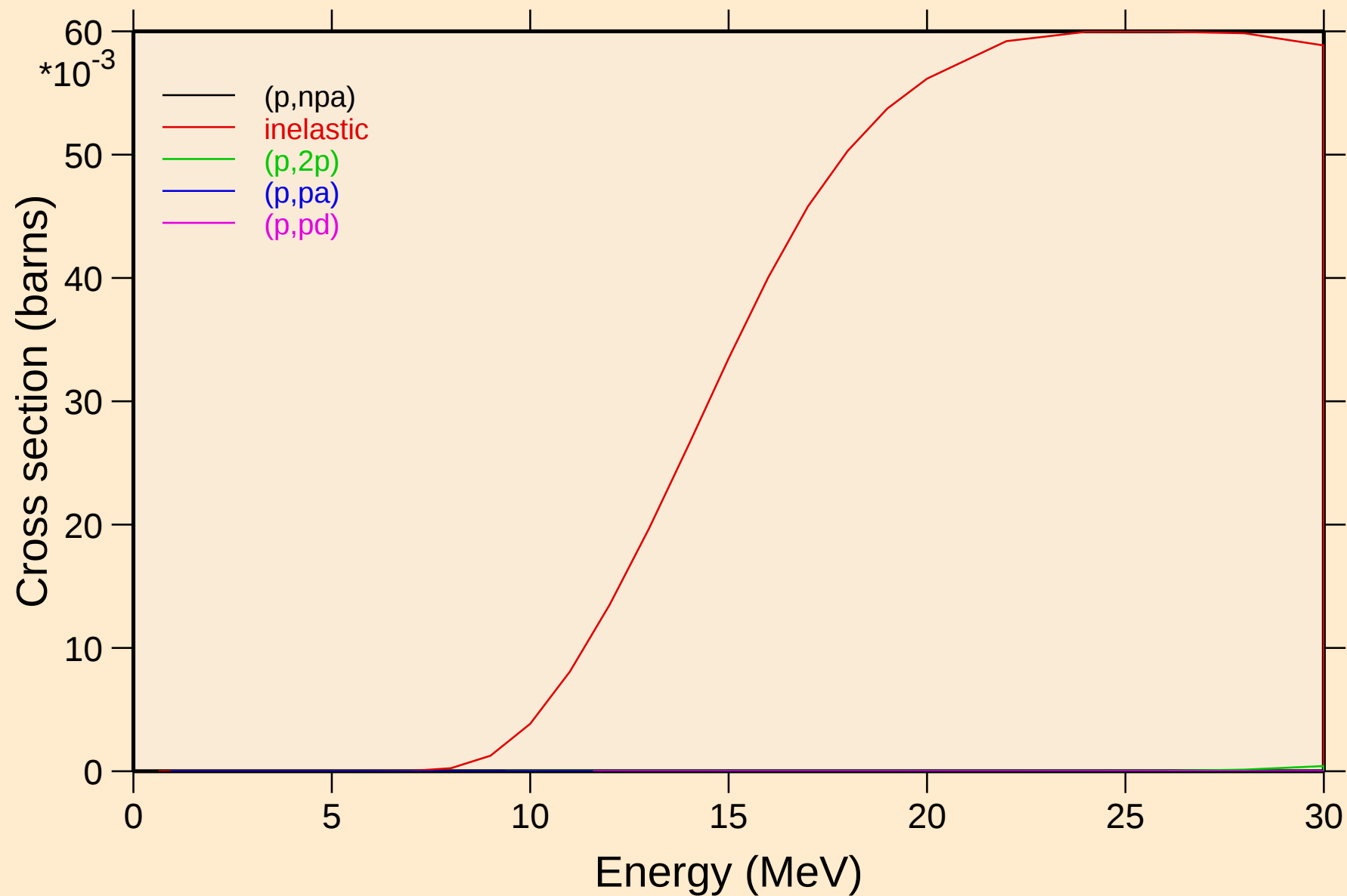
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Threshold reactions



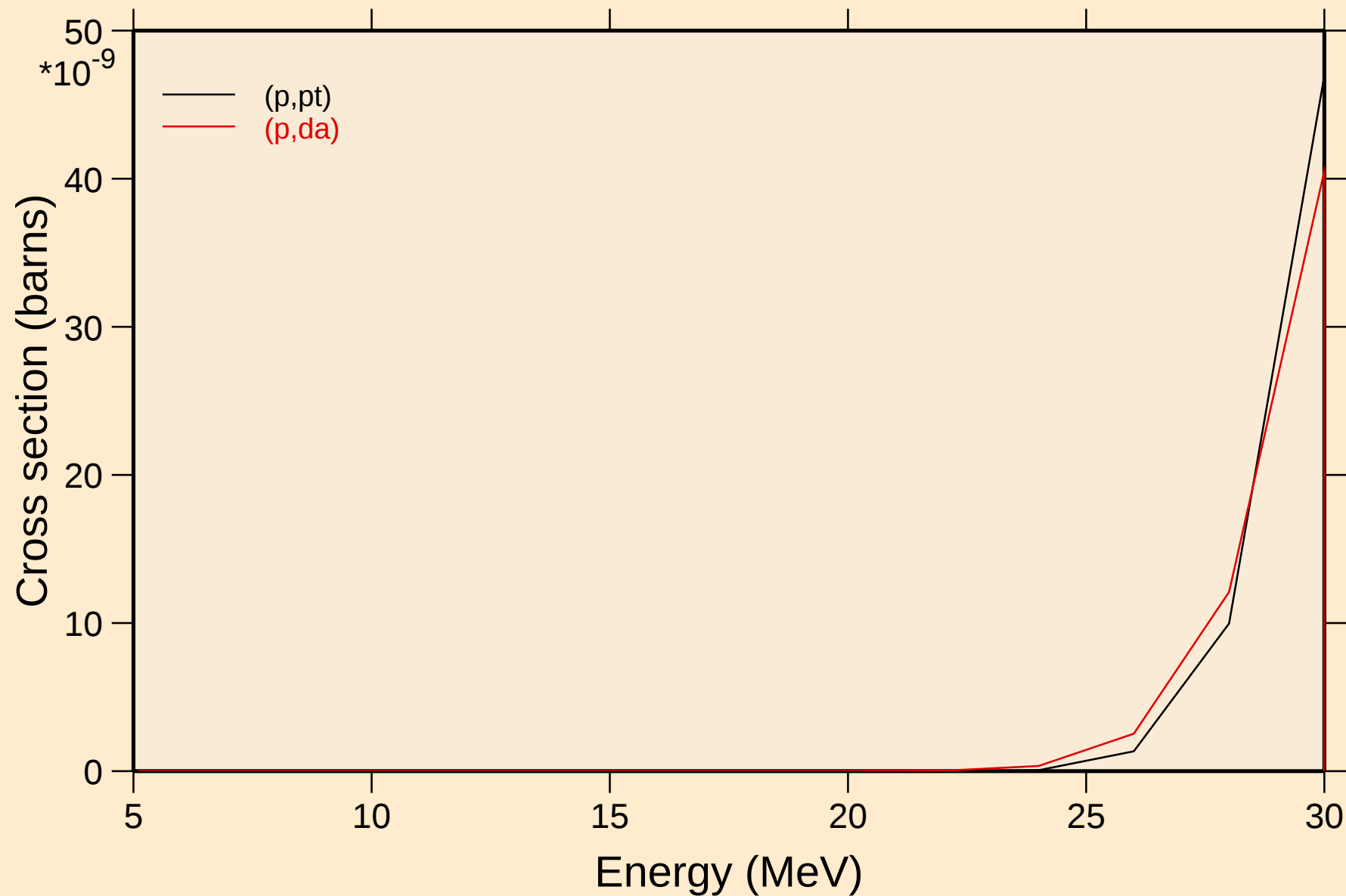
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Threshold reactions

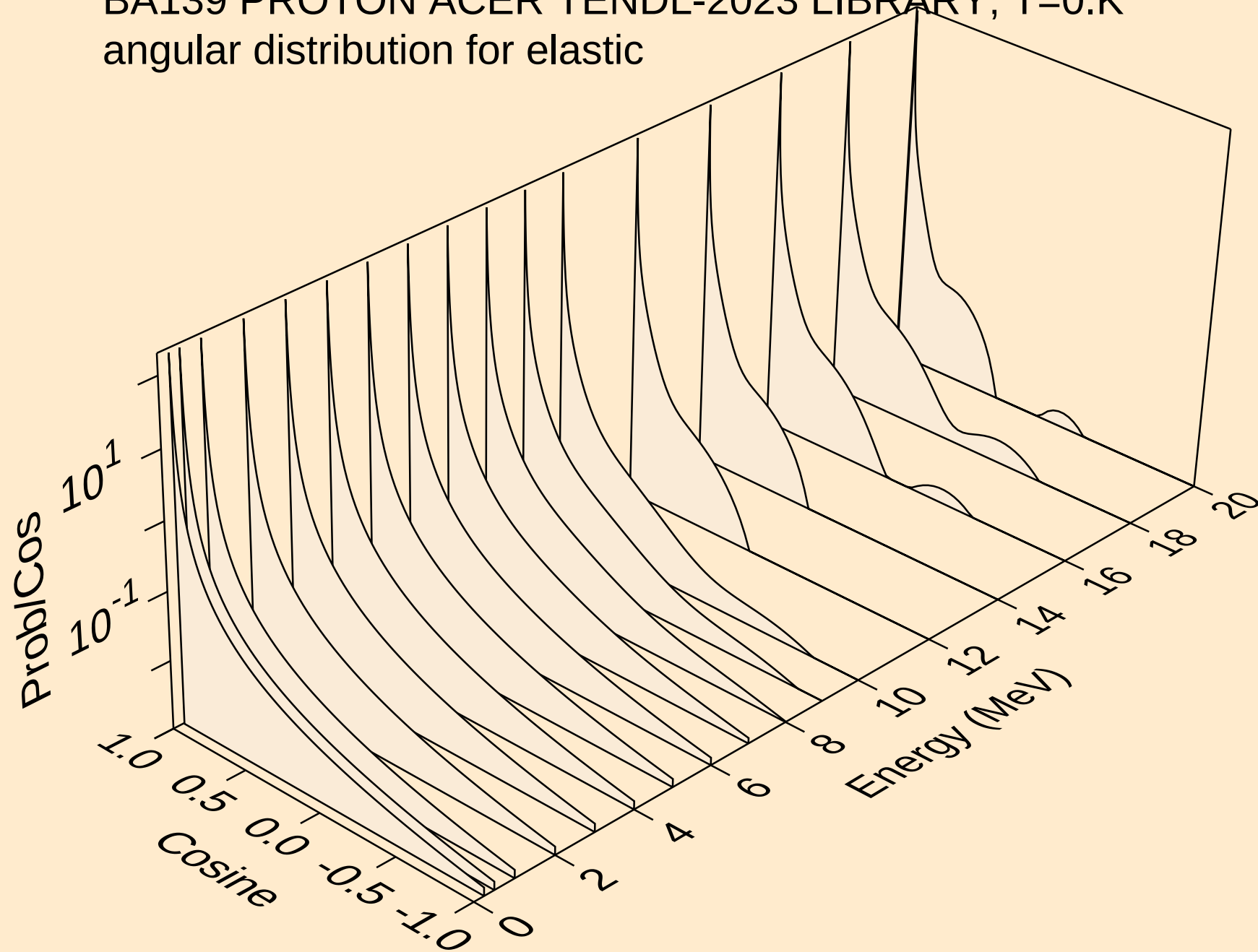


BA139 PROTON ACER TENDL-2023 LIBRARY; T=0.K

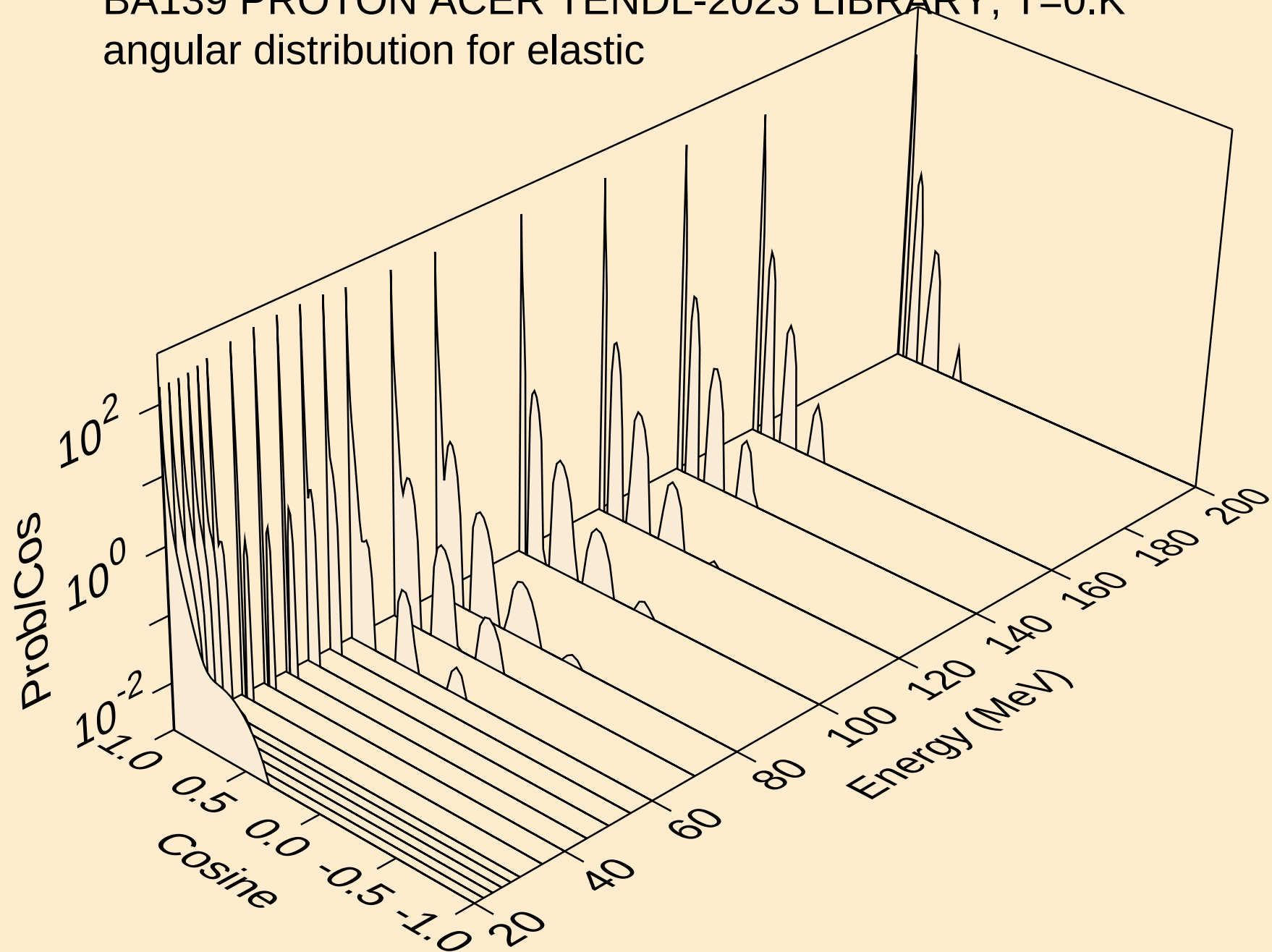
Threshold reactions



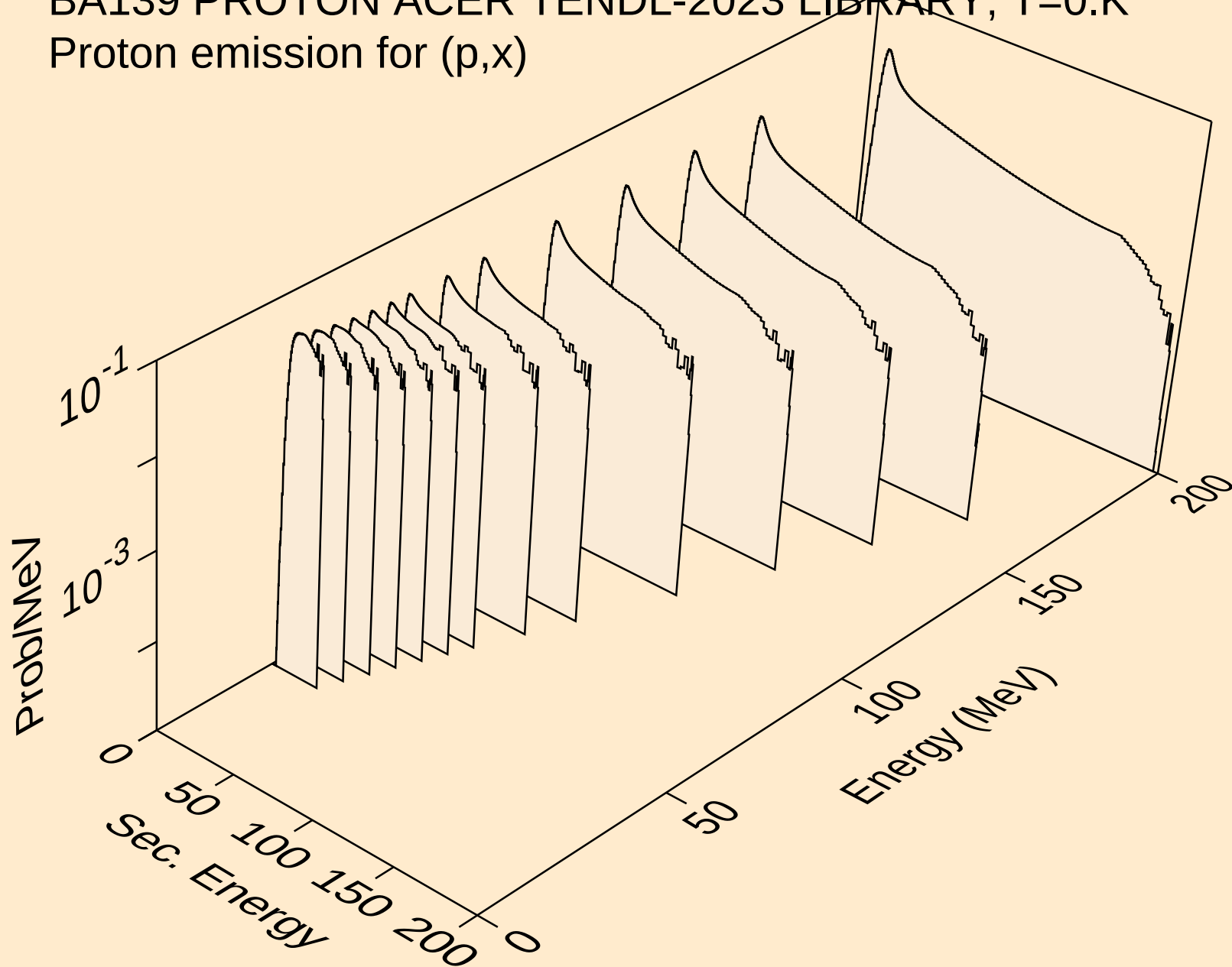
BA139 PROTON ACER TENDL-2023 LIBRARY; T=0.K
angular distribution for elastic



BA139 PROTON ACER TENDL-2023 LIBRARY; T=0.K
angular distribution for elastic

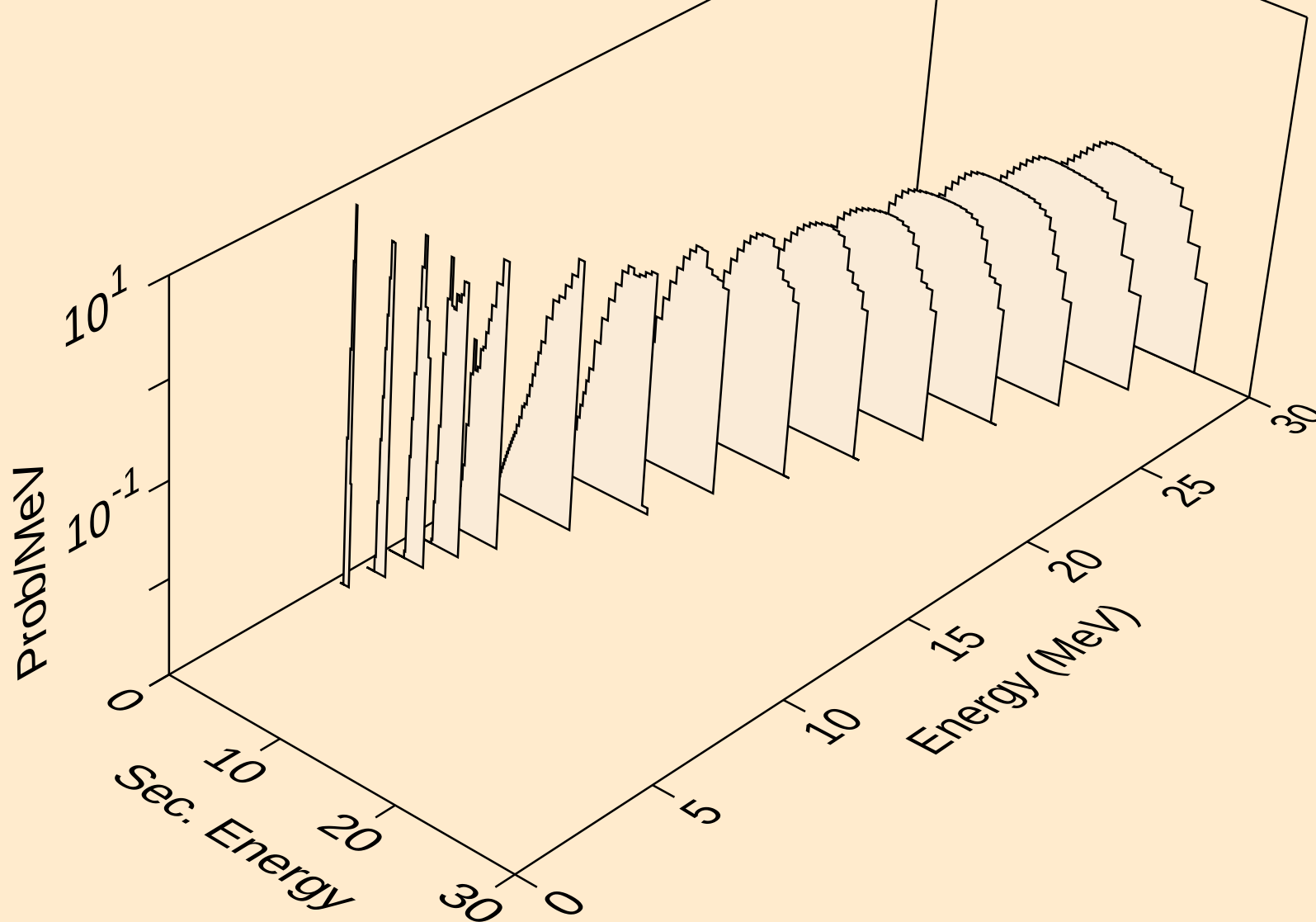


BA139 PROTON ACER TENDL-2023 LIBRARY; T=0.K
Proton emission for (p,x)

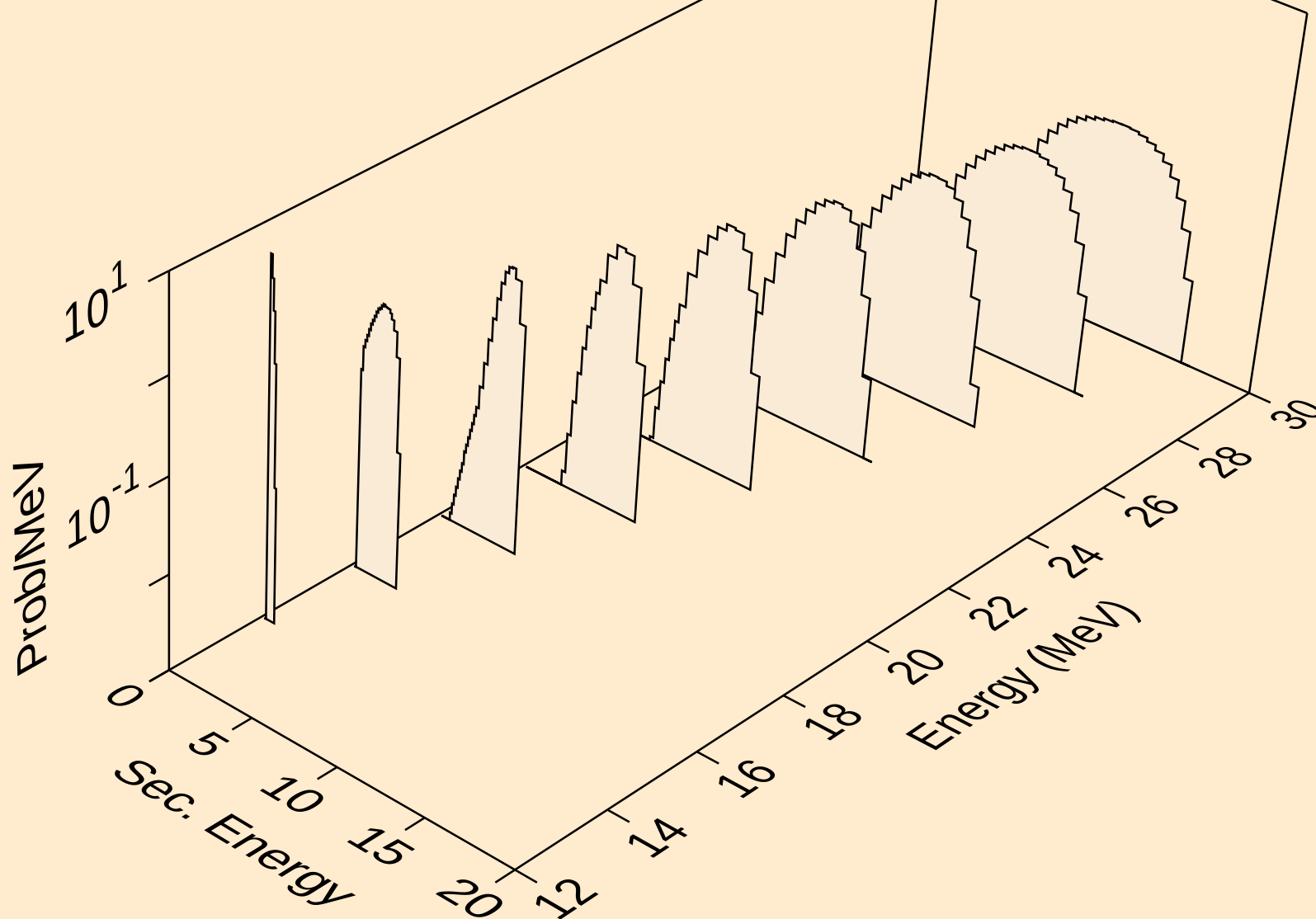


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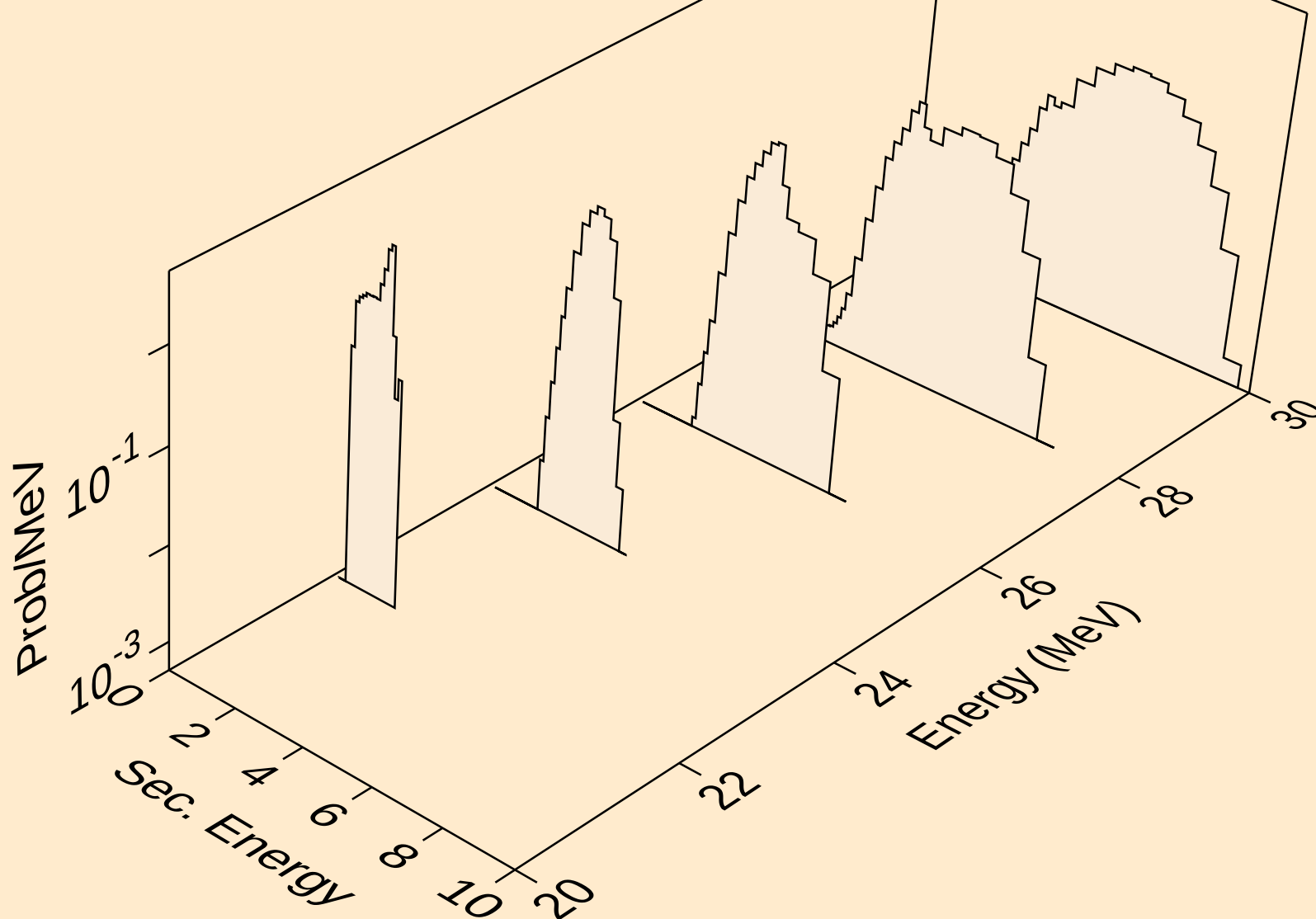
Proton emission for (p,n*)p



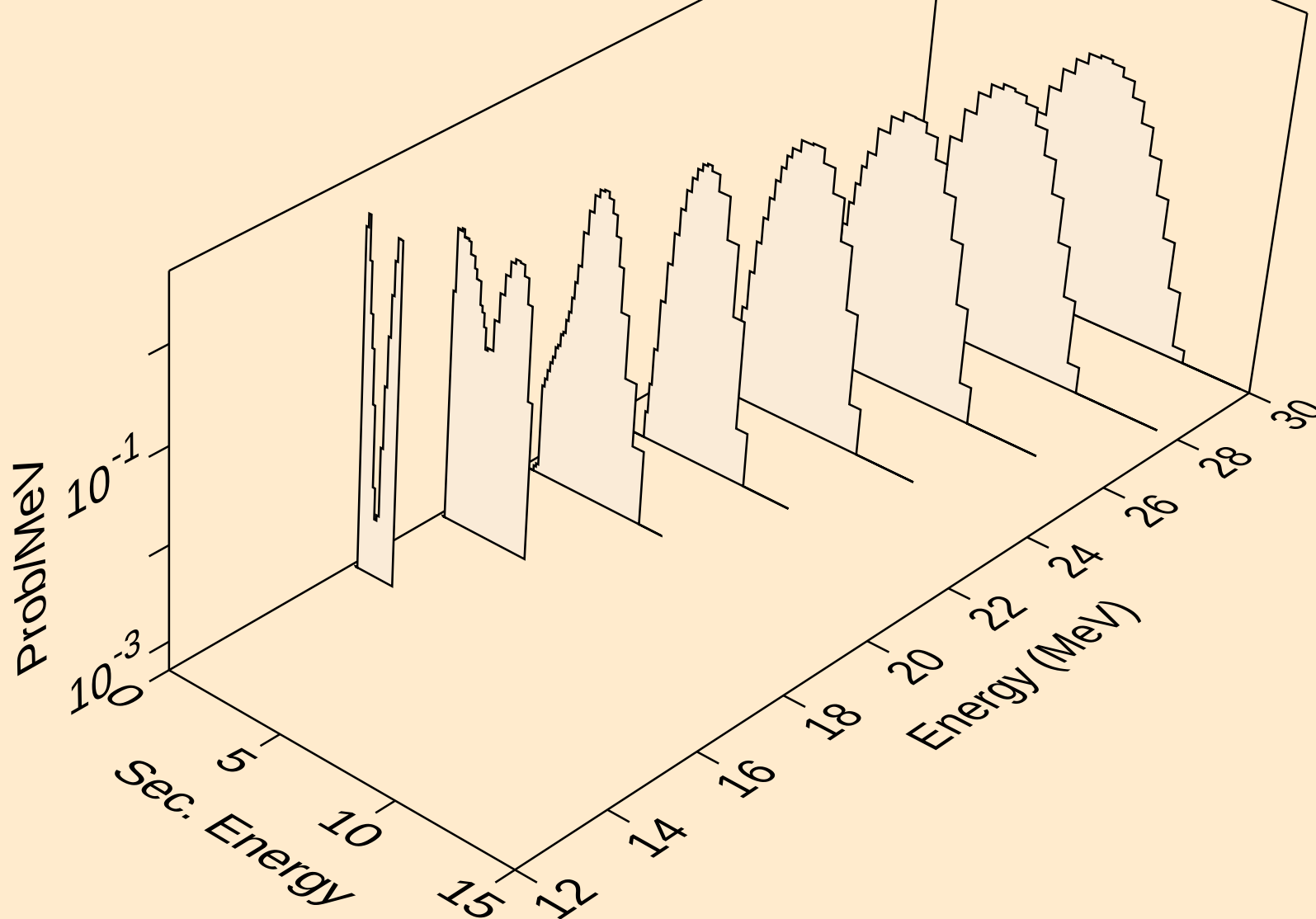
BA139 PROTON ACER TENDL-2023 LIBRARY; T=0.K
Proton emission for (p,2np)



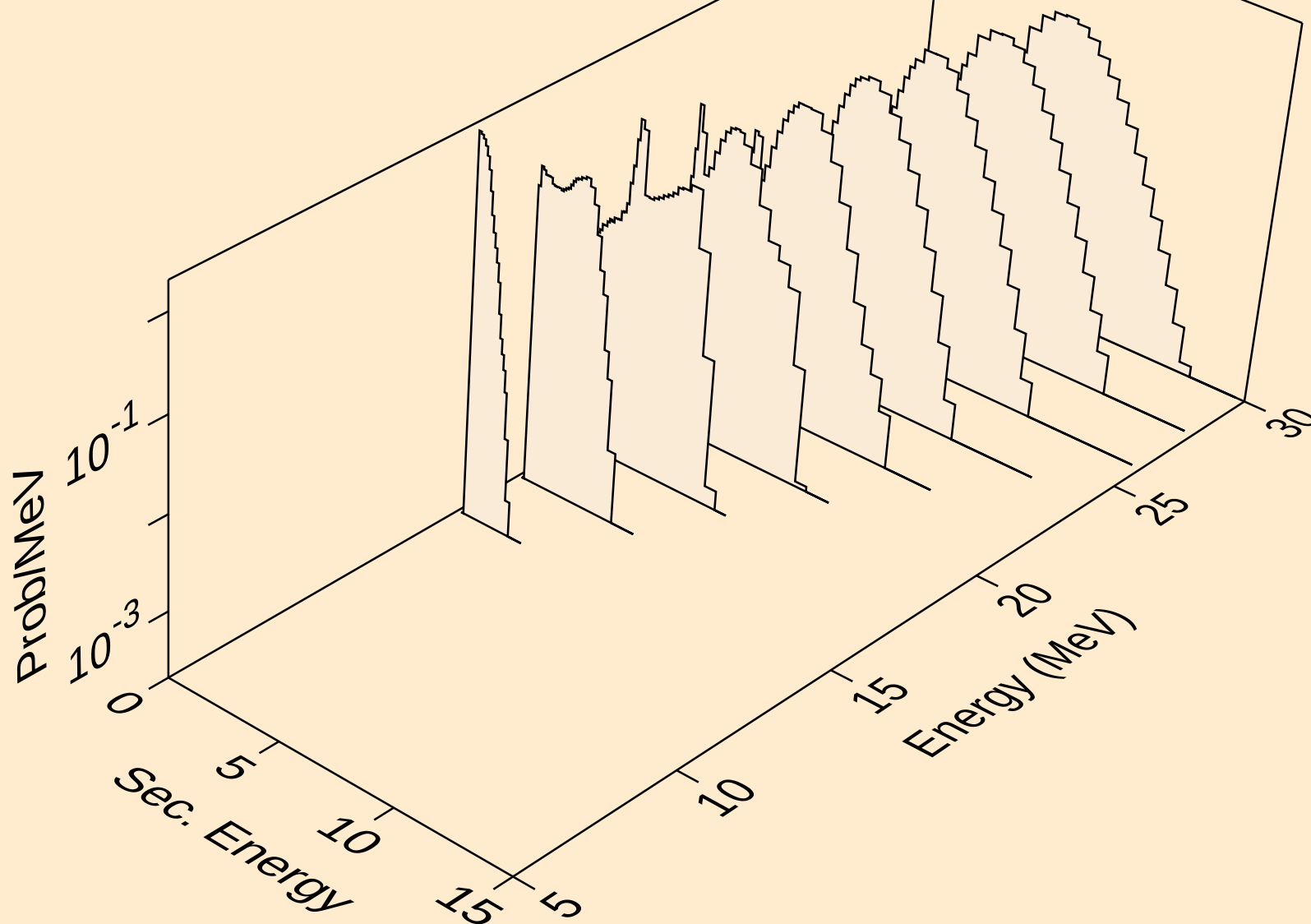
BA139 PROTON ACER TENDL-2023 LIBRARY; T=0.K
Proton emission for (p,3np)



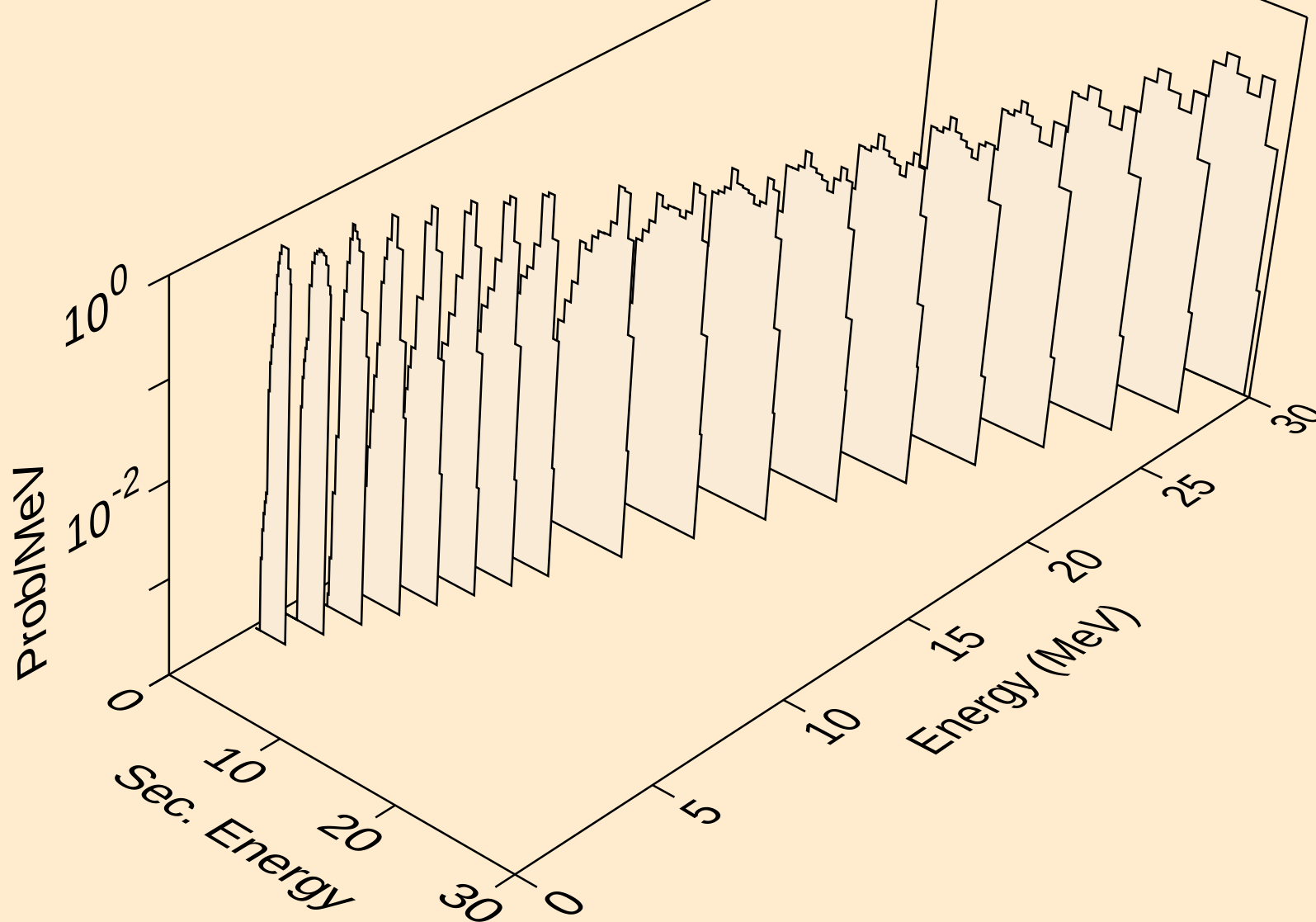
BA139 PROTON ACER TENDL-2023 LIBRARY; T=0.K
Proton emission for (p,n2p)



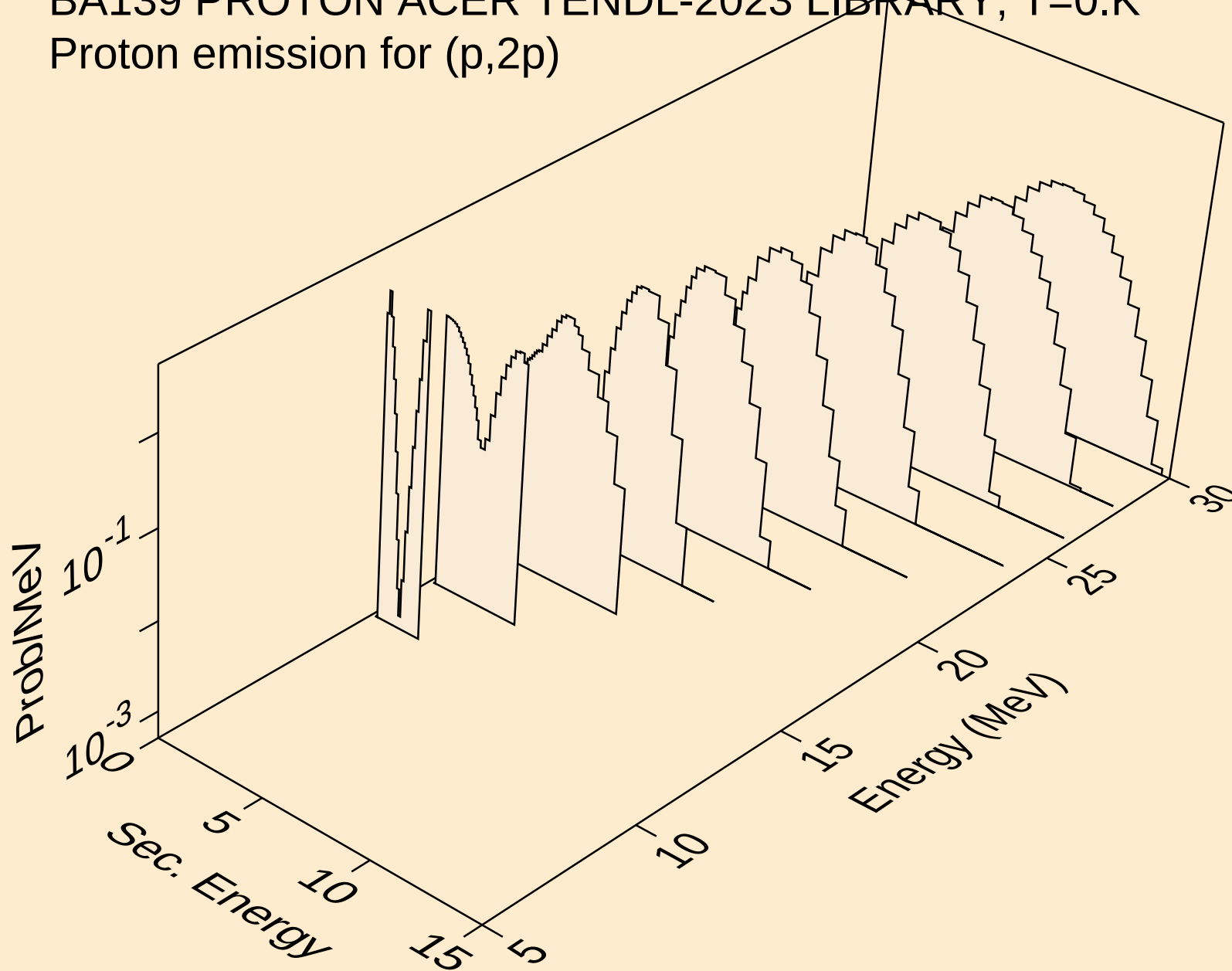
BA139 PROTON ACER TENDL-2023 LIBRARY; T=0.K
Proton emission for (p,npa)



BA139 PROTON ACER TENDL-2023 LIBRARY; T=0.K
Proton emission for inelastic

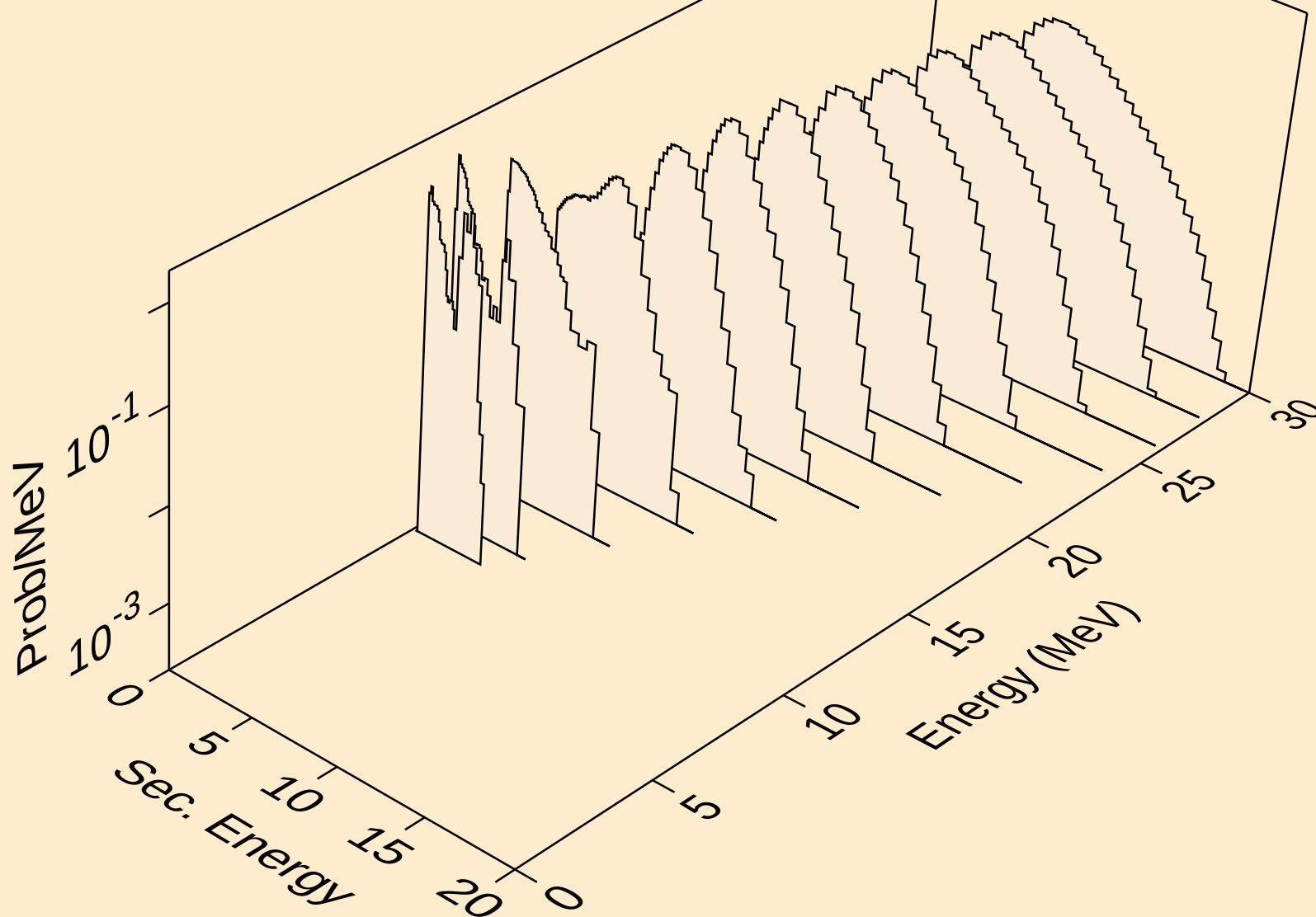


BA139 PROTON ACER TENDL-2023 LIBRARY; T=0.K
Proton emission for (p,2p)



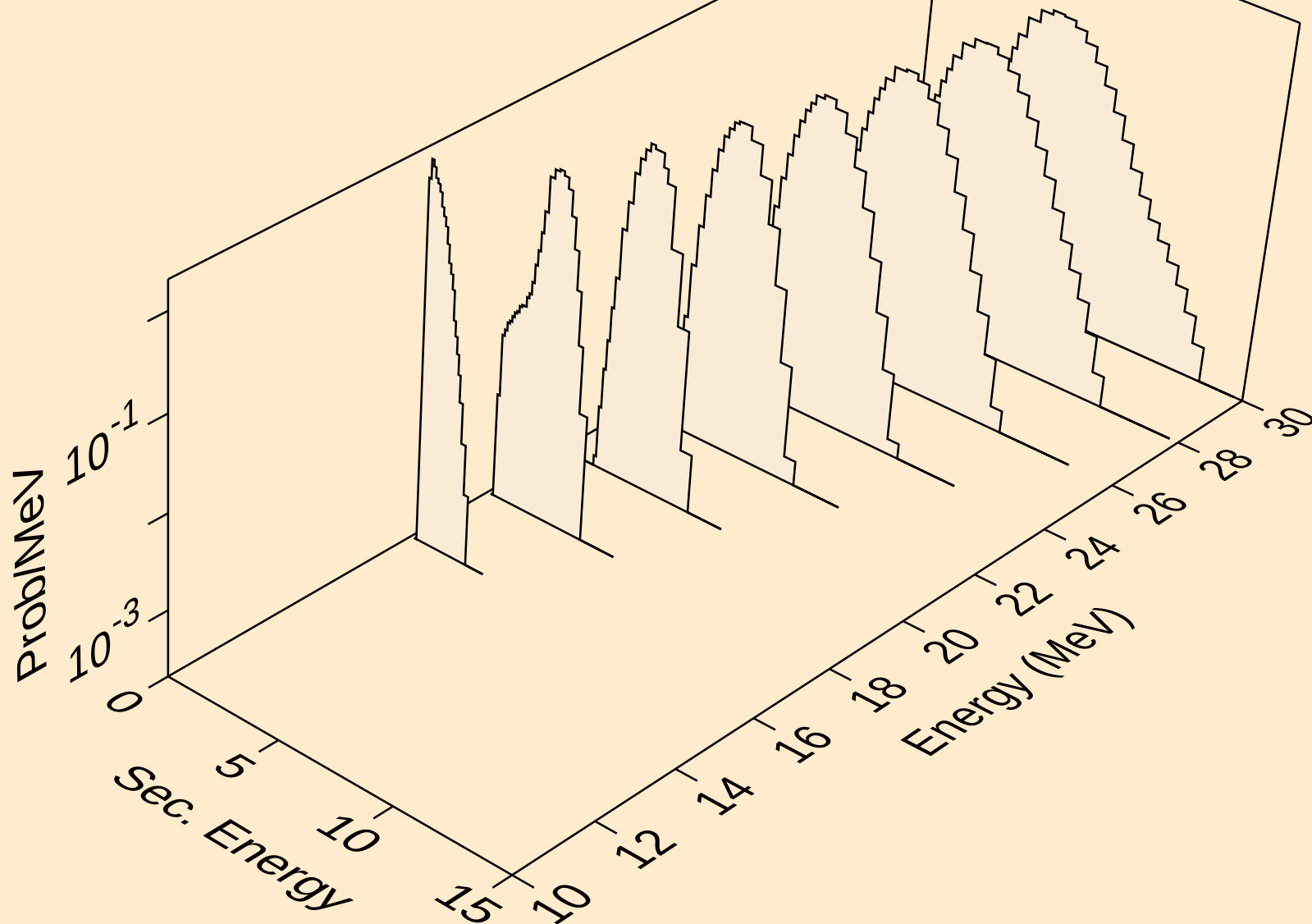
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Proton emission for (p,pa)



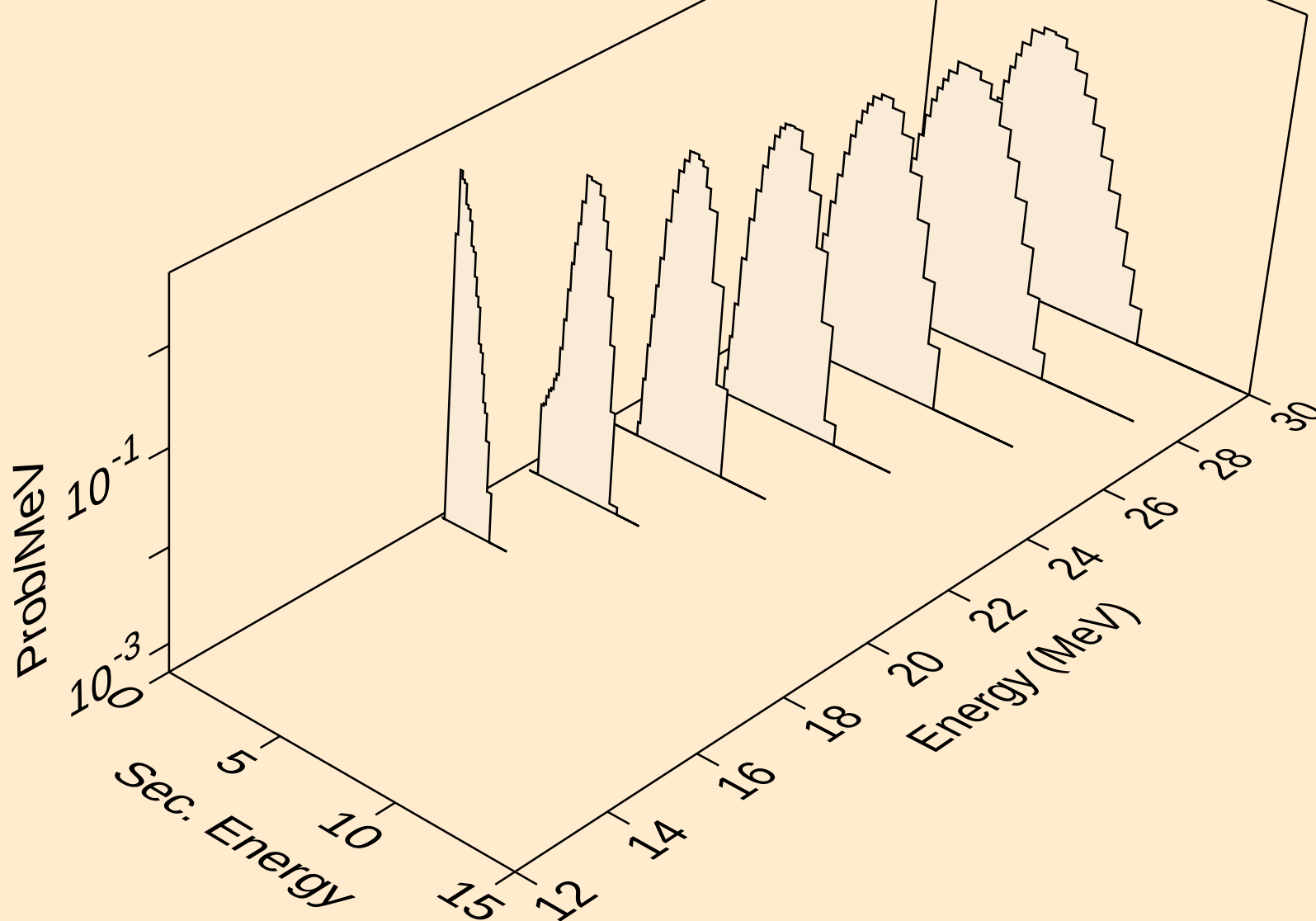
BA139 PROTON ACER TENDL-2023 LIBRARY; T=0.K

Proton emission for (p,pd)

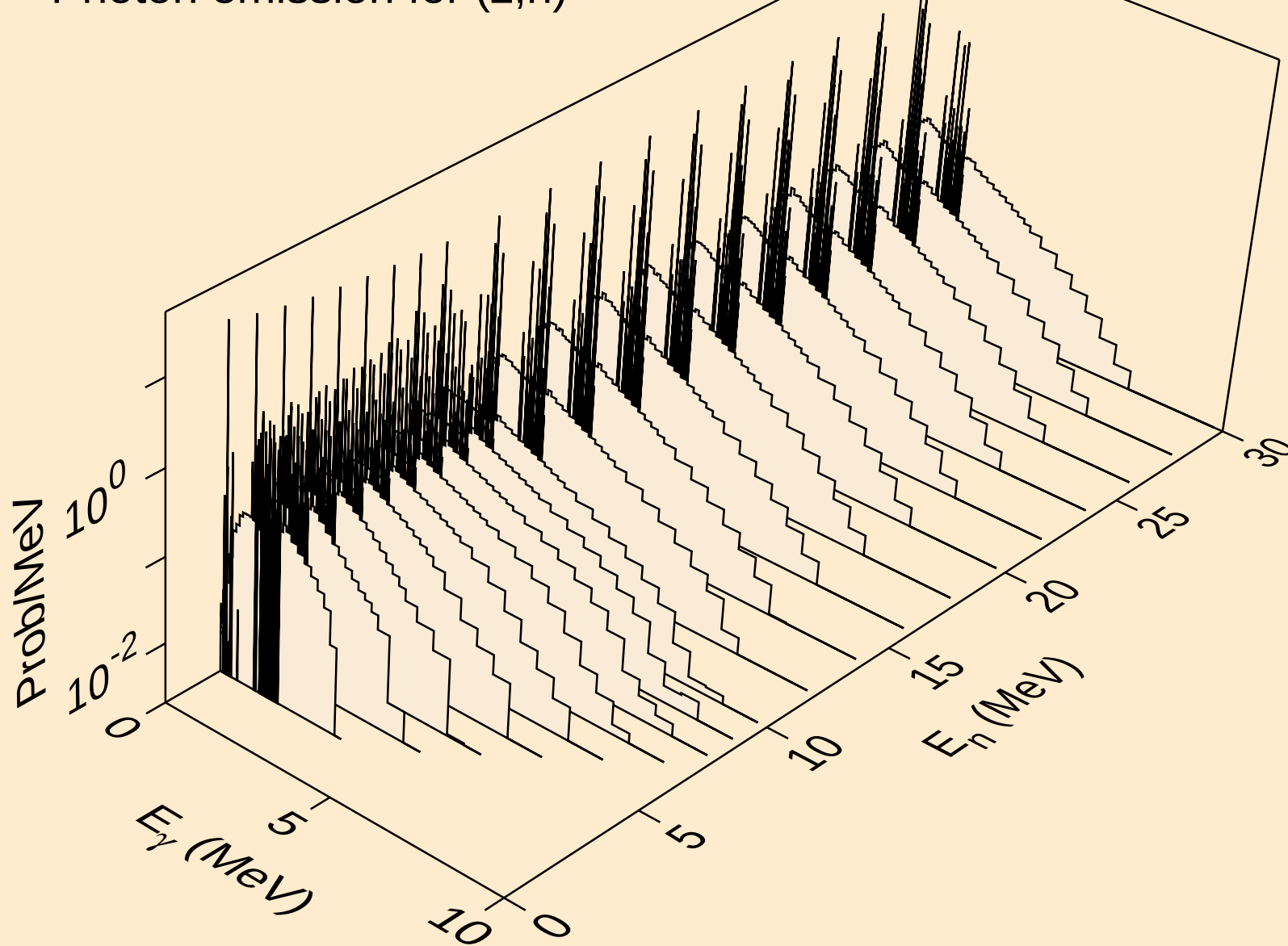


BA139 PROTON ACER TENDL-2023 LIBRARY; T=0.K

Proton emission for (p,pt)

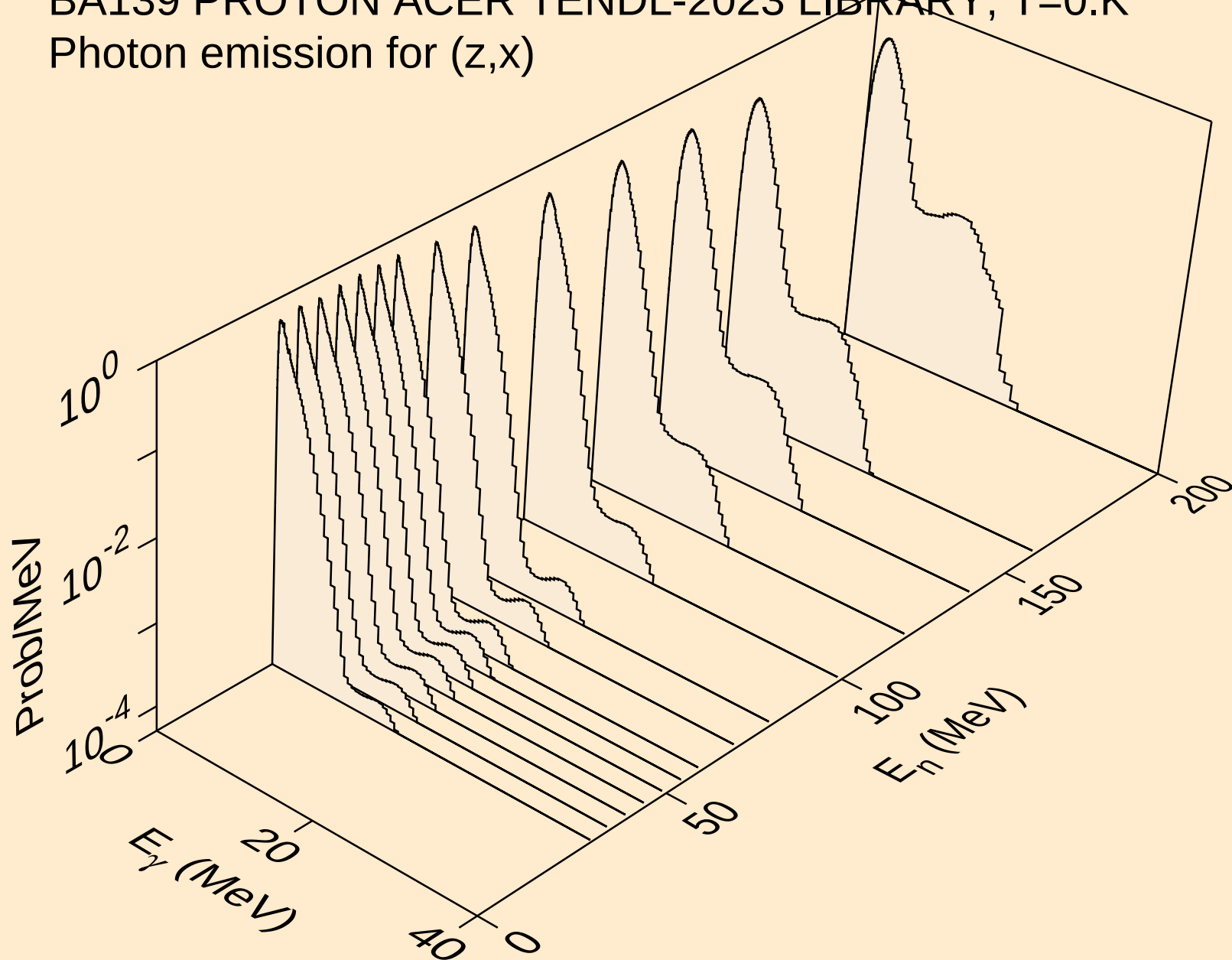


BA139 PROTON ACER TENDL-2023 LIBRARY; $T=0.K$
Photon emission for (z,n)

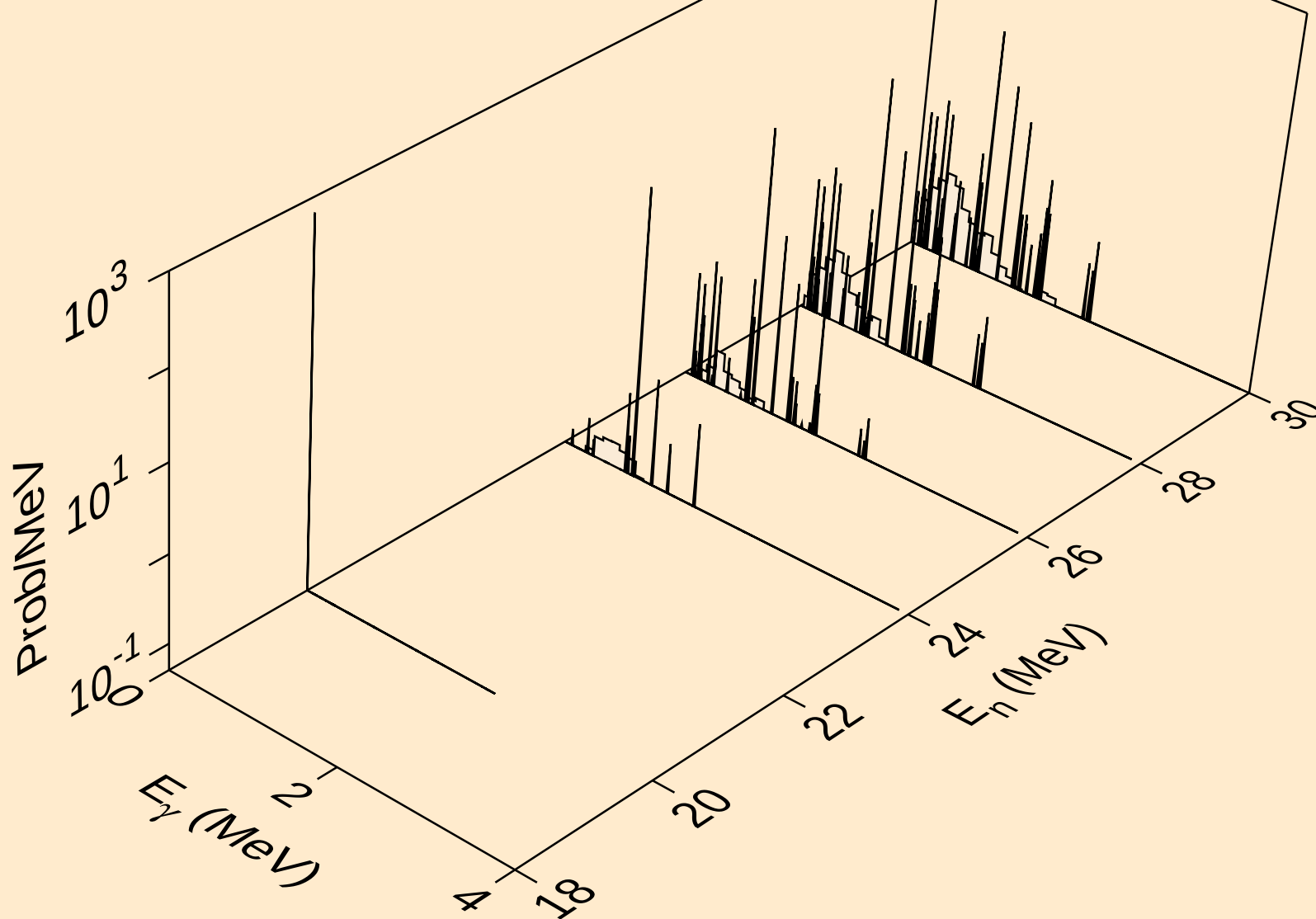


BA139 PROTON ACER TENDL-2023 LIBRARY; T=0.K

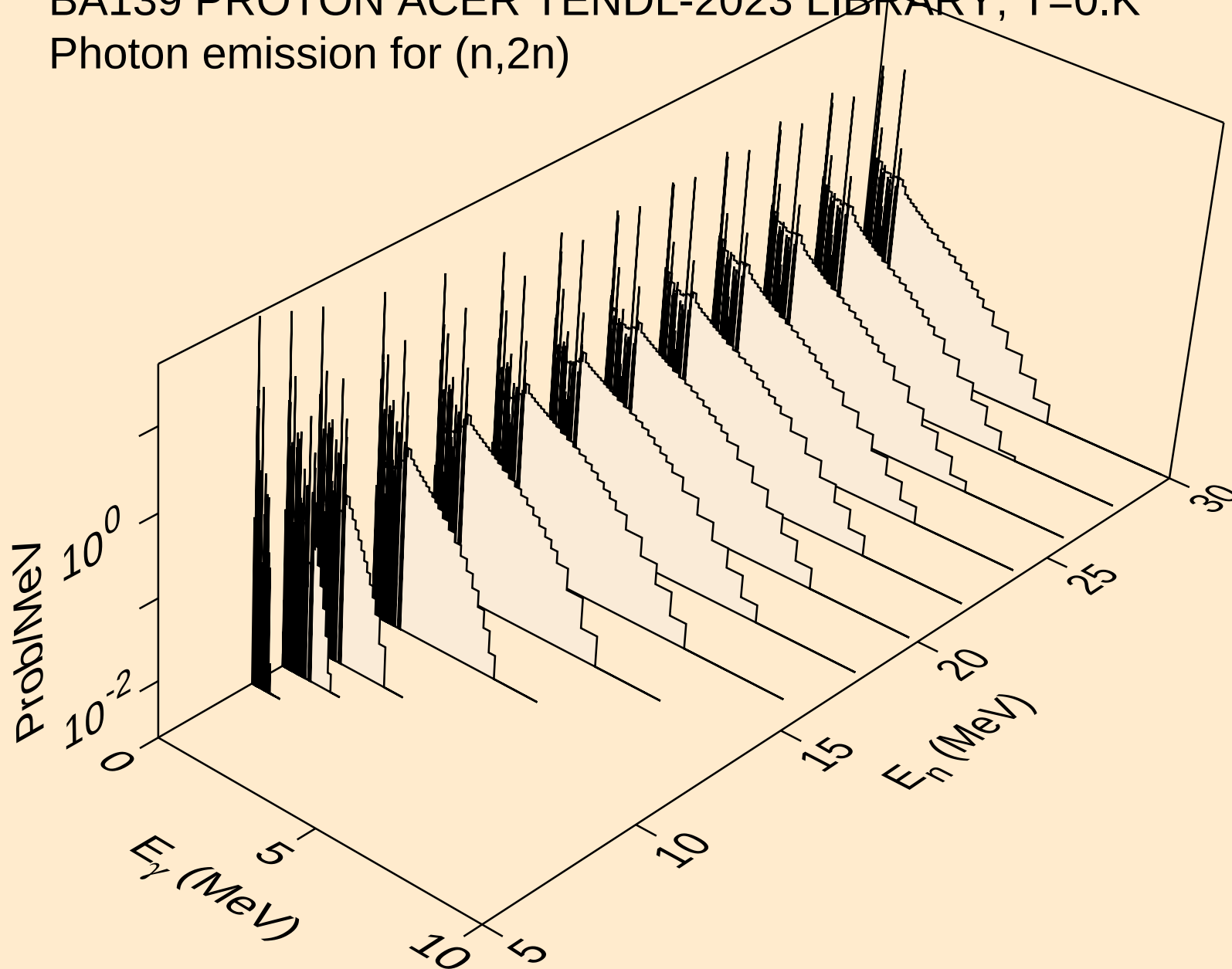
Photon emission for (z,x)



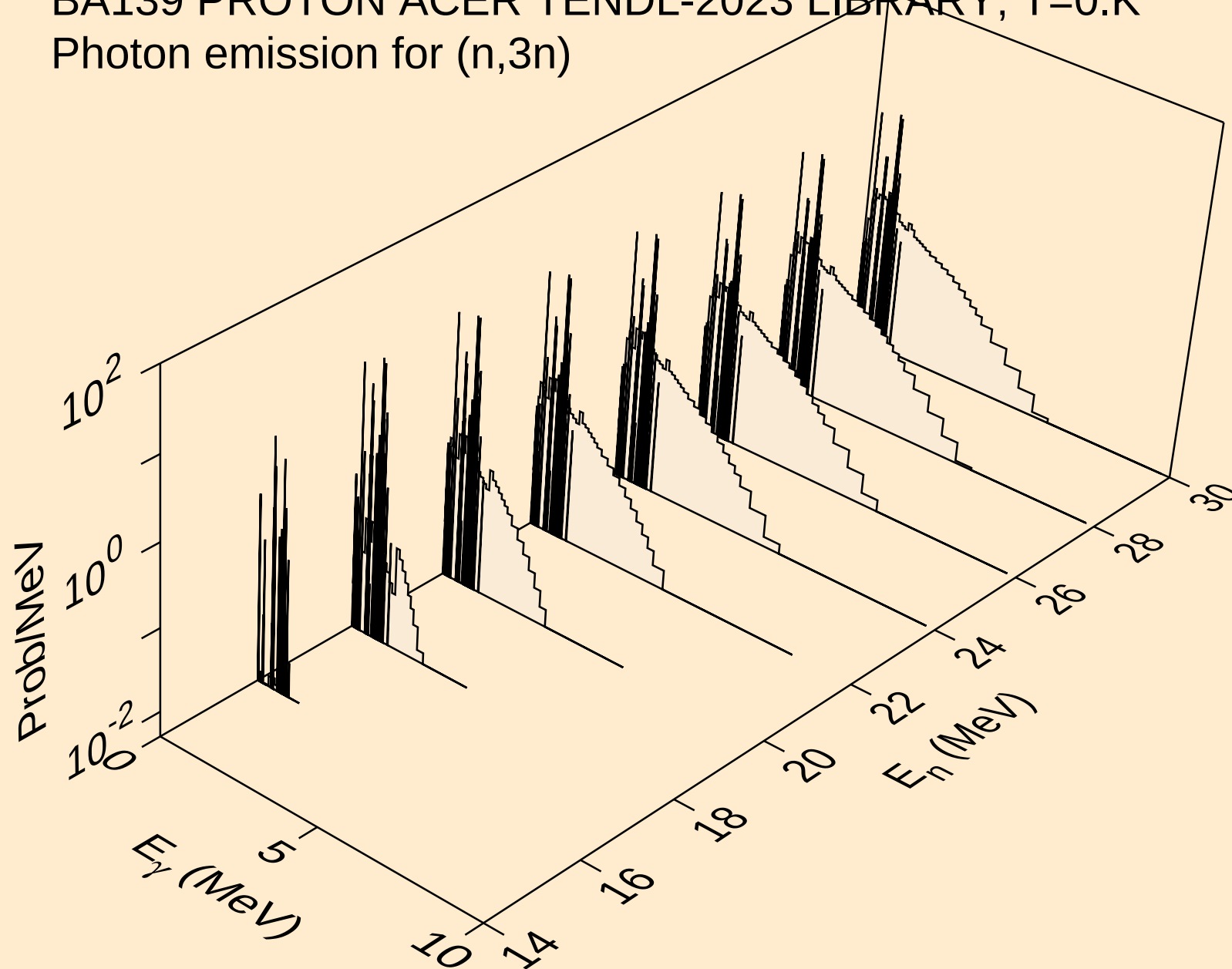
BA139 PROTON ACER TENDL-2023 LIBRARY; $T=0.K$
Photon emission for (n,2nd)



BA139 PROTON ACER TENDL-2023 LIBRARY; $T=0.K$
Photon emission for (n,2n)

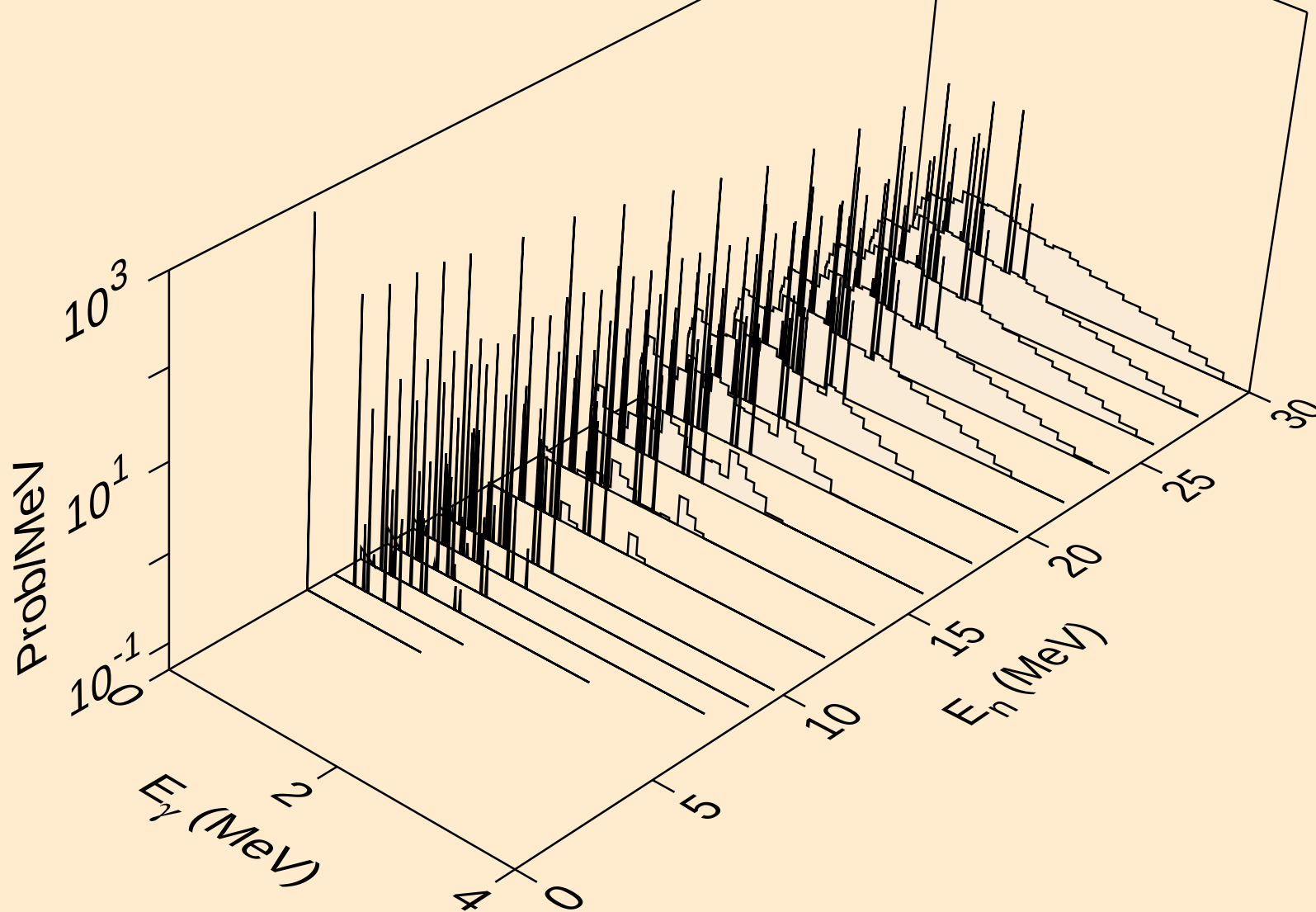


BA139 PROTON ACER TENDL-2023 LIBRARY; $T=0.K$
Photon emission for (n,3n)

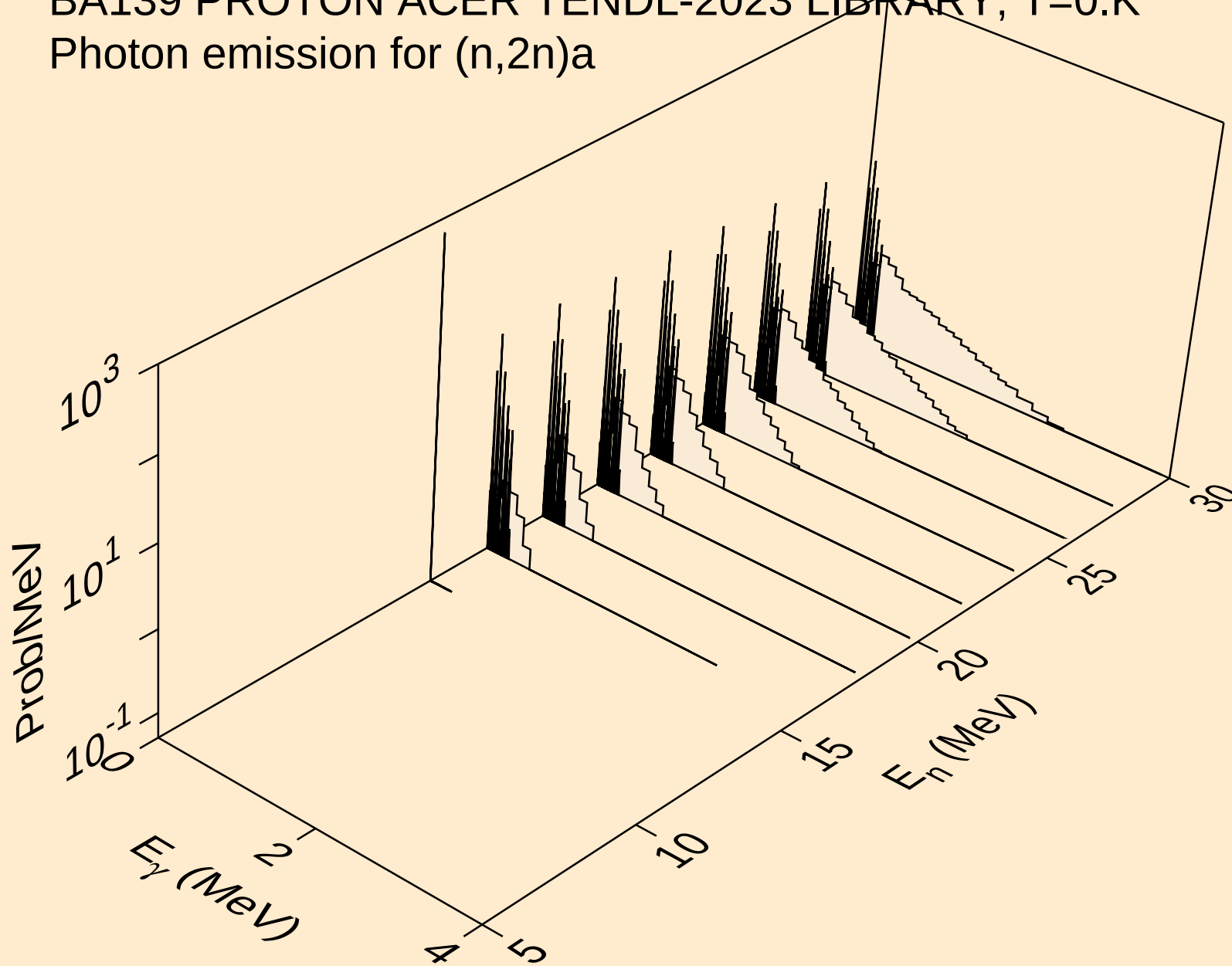


BA139 PROTON ACER TENDL-2023 LIBRARY; T=0.K

Photon emission for (n,n*)a

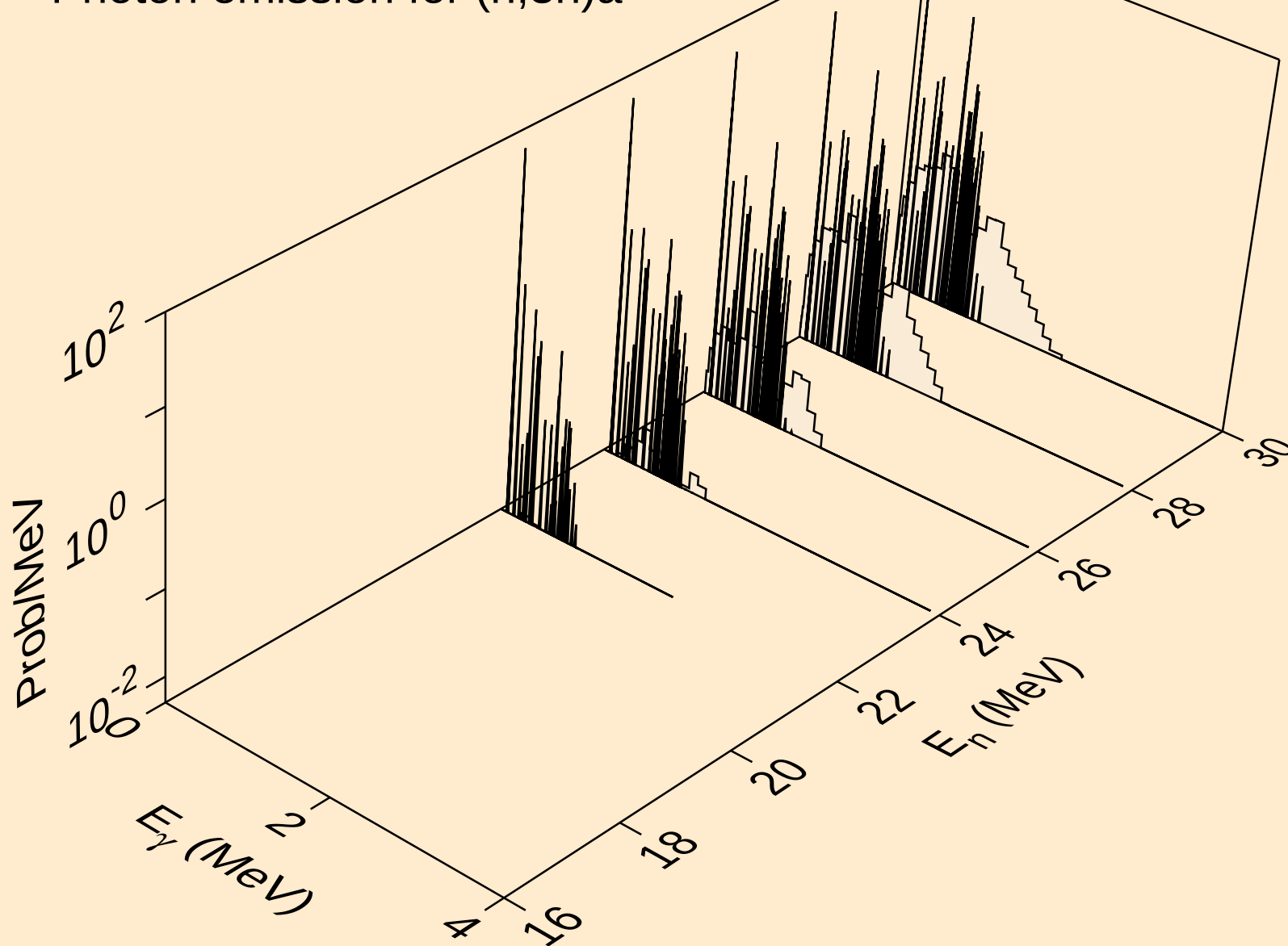


BA139 PROTON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,2n)a



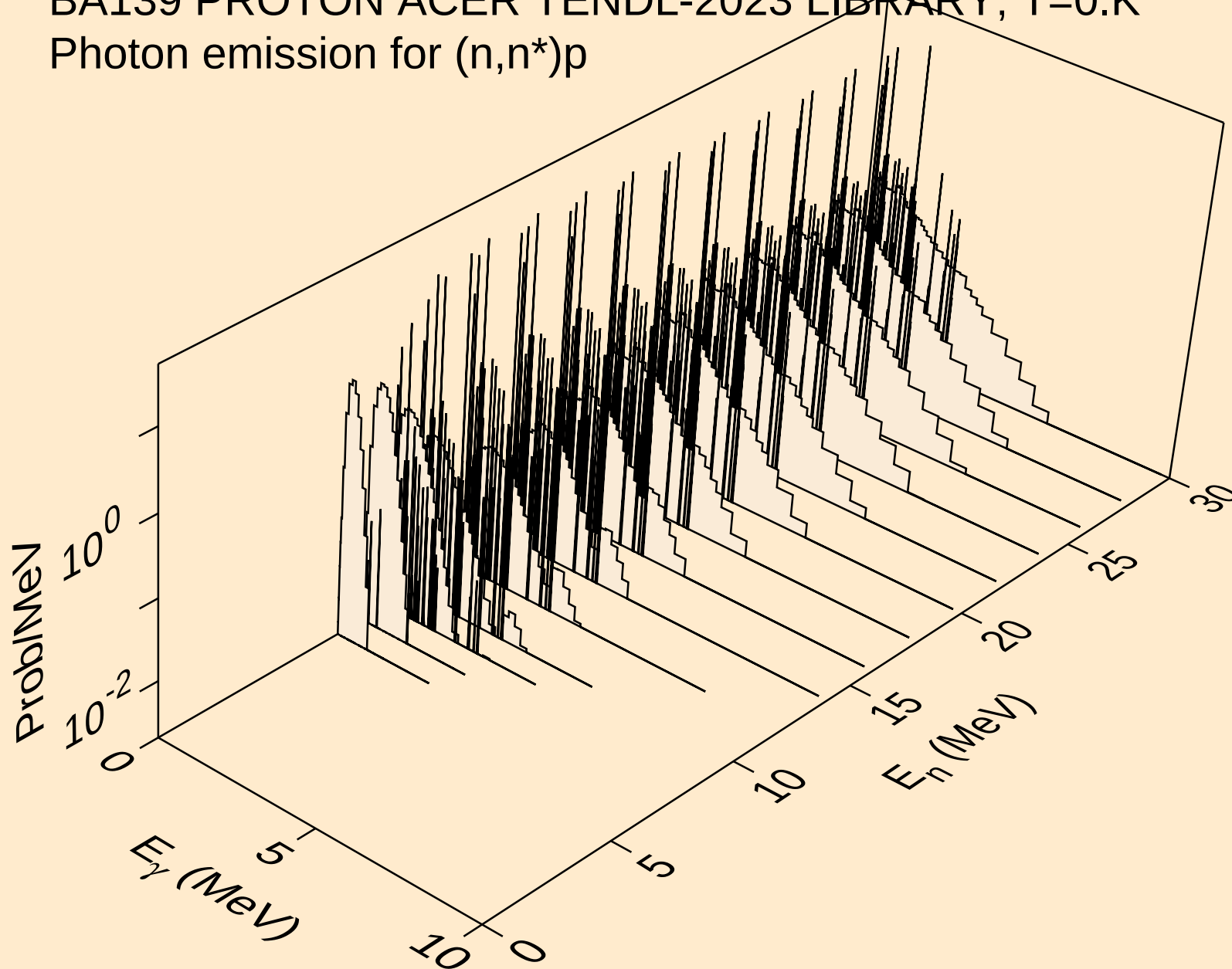
BA139 PROTON ACER TENDL-2023 LIBRARY; $T=0.K$

Photon emission for $(n,3n)\alpha$



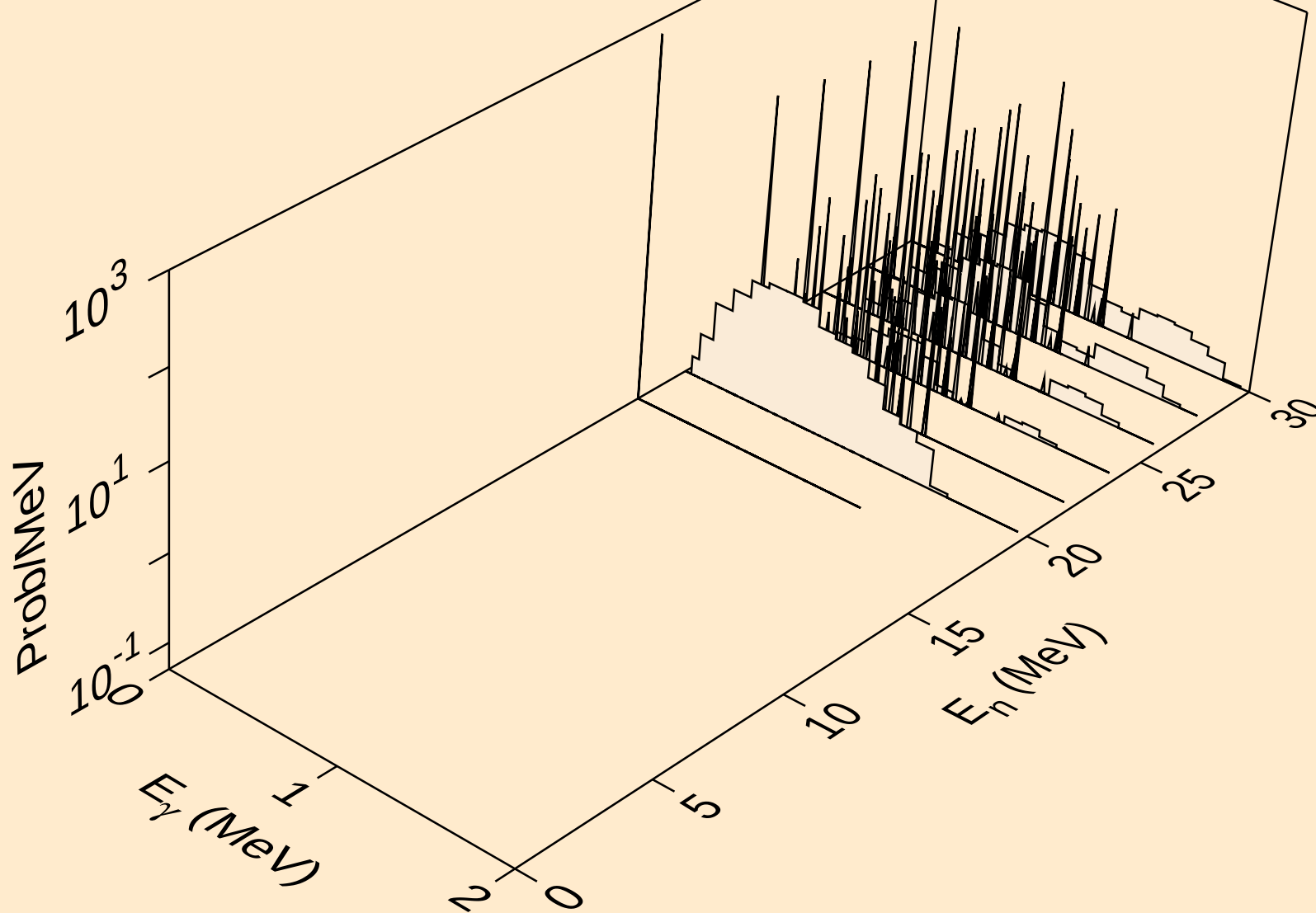
BA139 PROTON ACER TENDL-2023 LIBRARY; $T=0.K$

Photon emission for $(n,n^*)p$



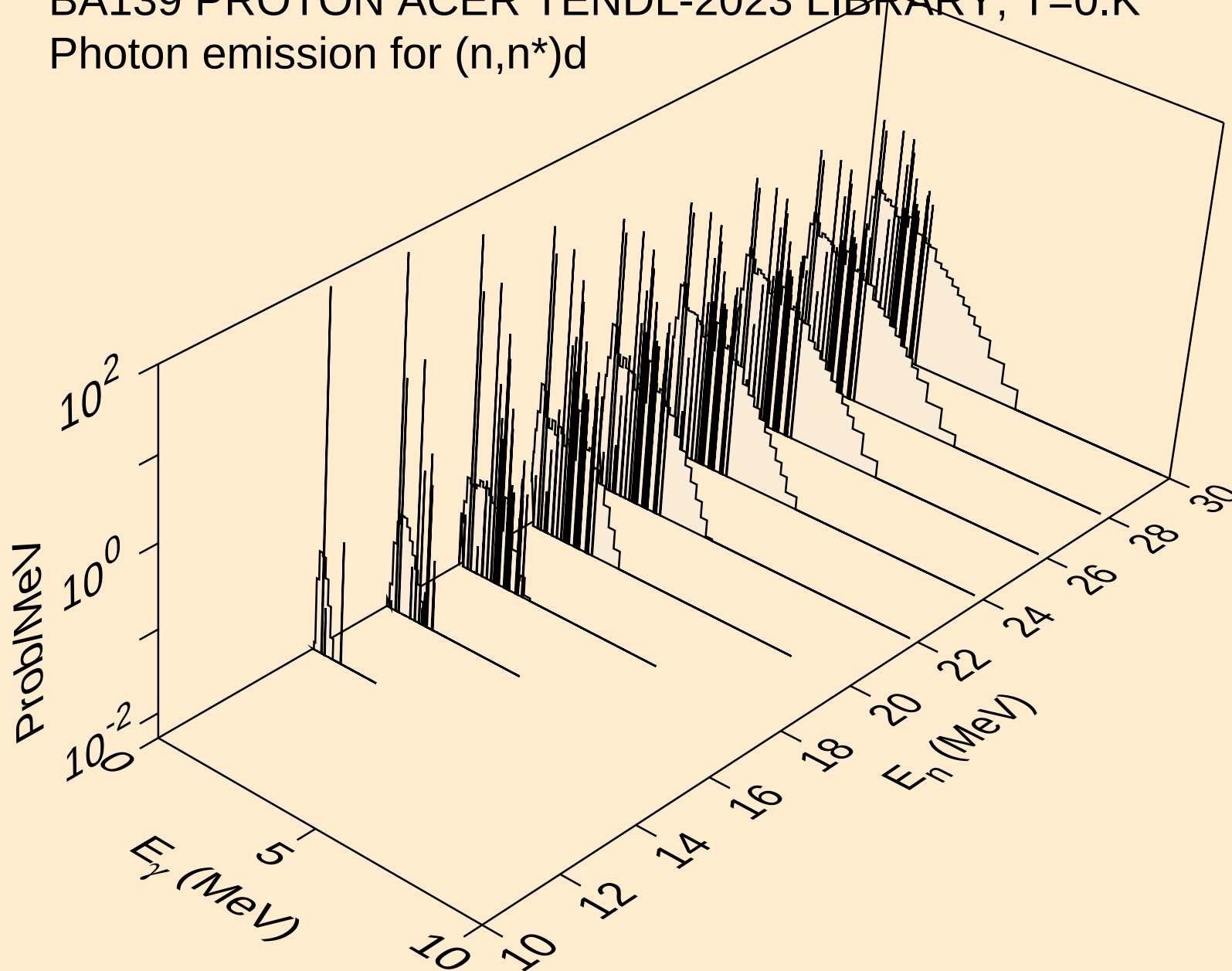
BA139 PROTON ACER TENDL-2023 LIBRARY; T=0.K

Photon emission for (n,n*)2a



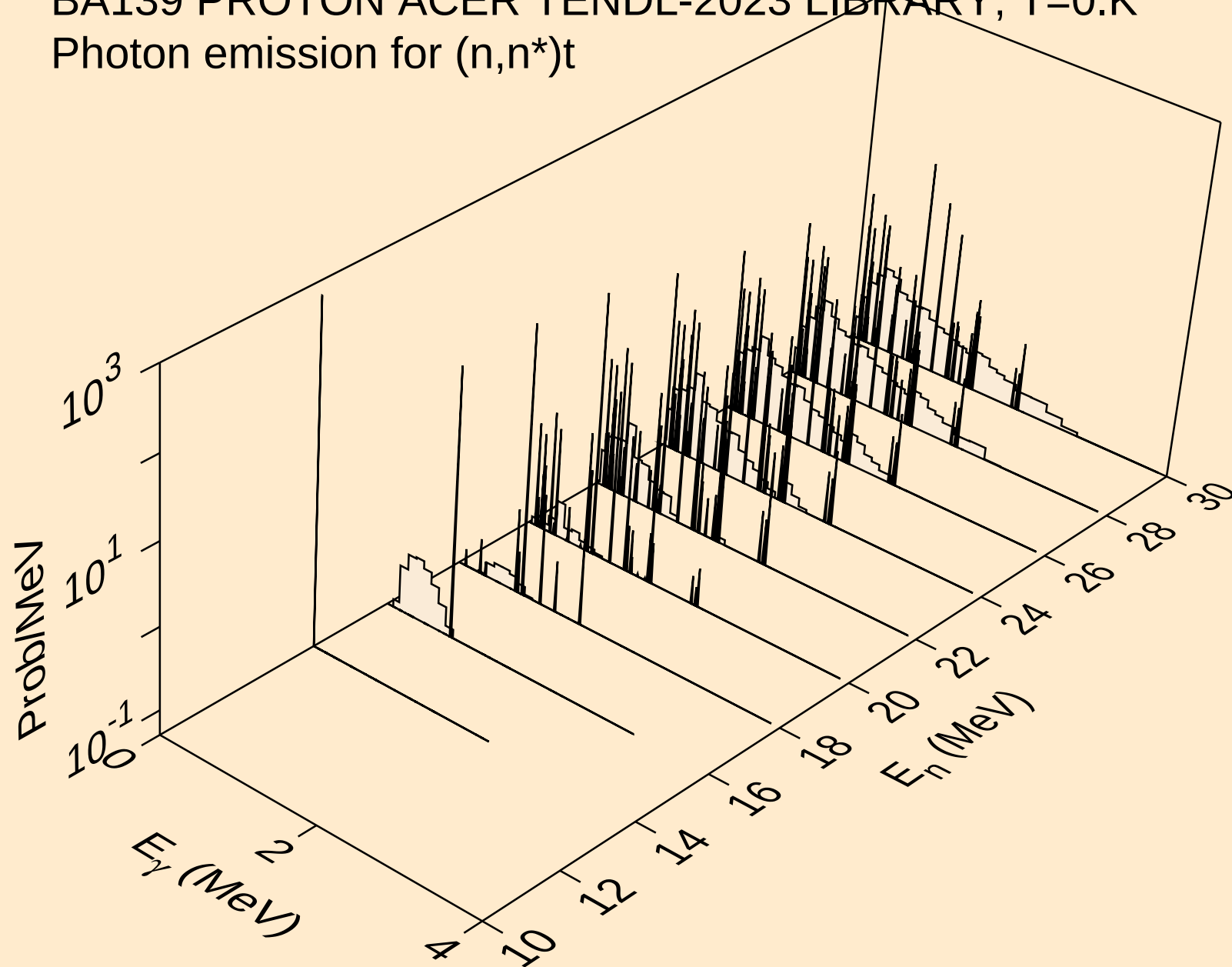
BA139 PROTON ACER TENDL-2023 LIBRARY; $T=0.K$

Photon emission for $(n,n^*)d$



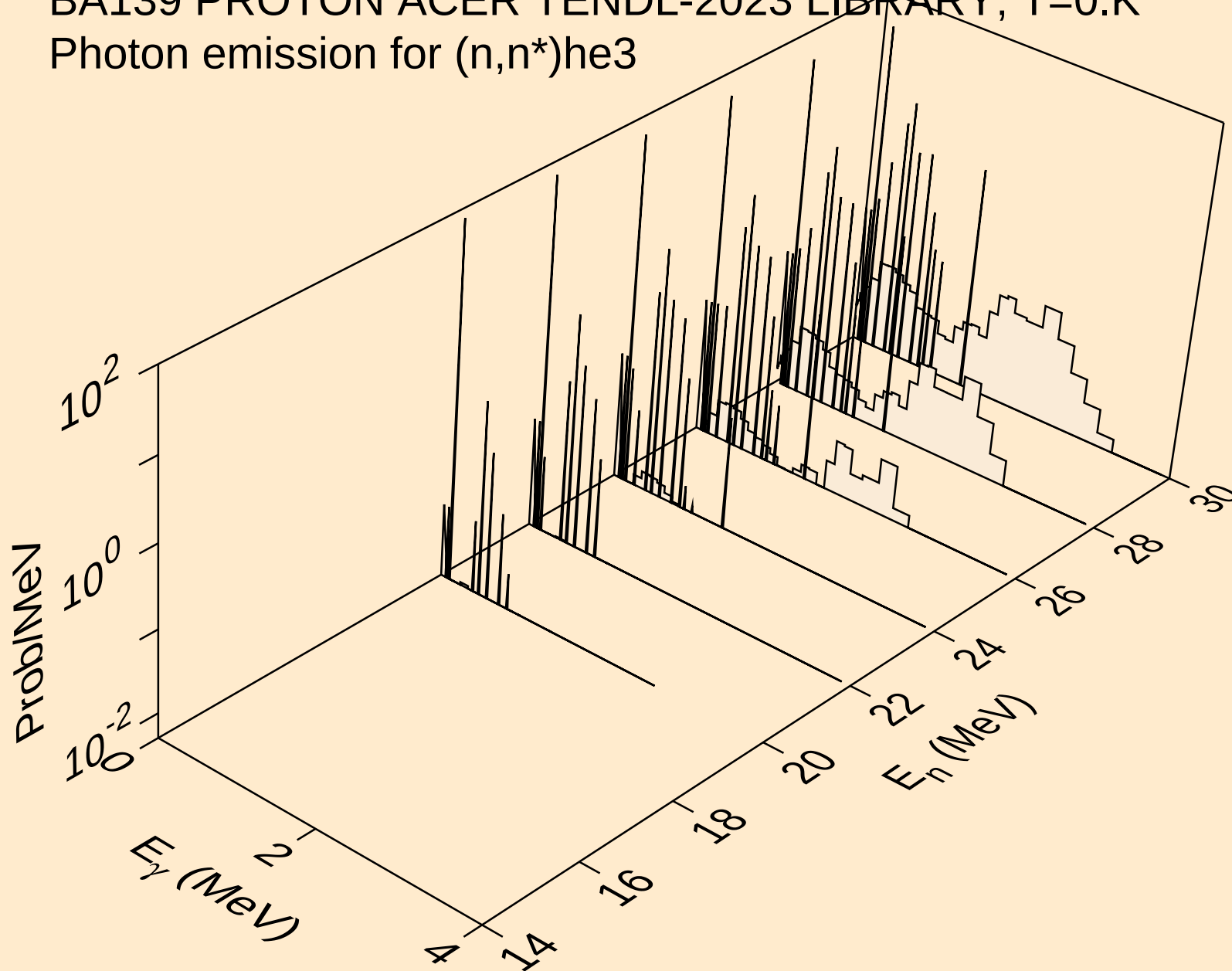
BA139 PROTON ACER TENDL-2023 LIBRARY; $T=0.K$

Photon emission for $(n,n^*)t$

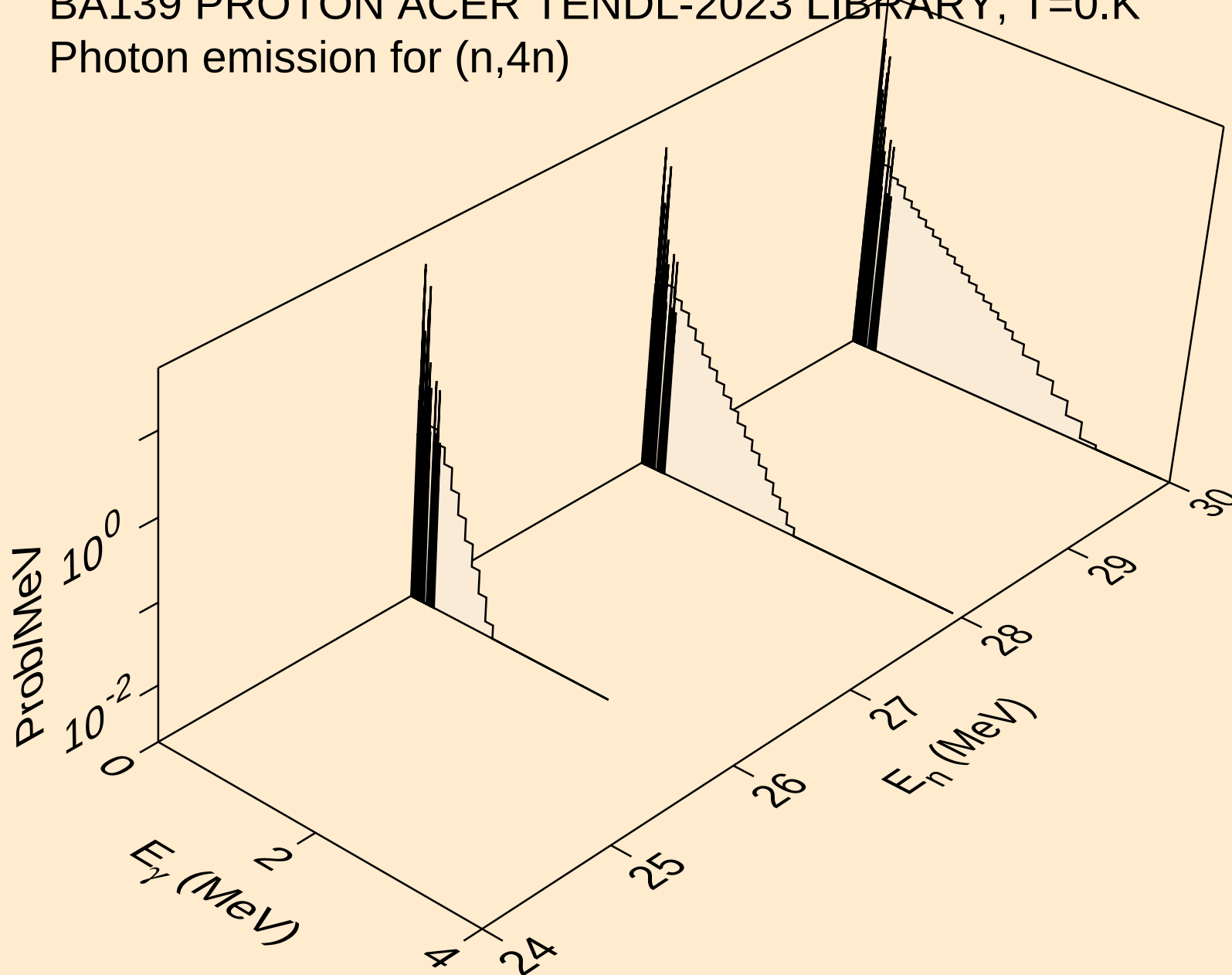


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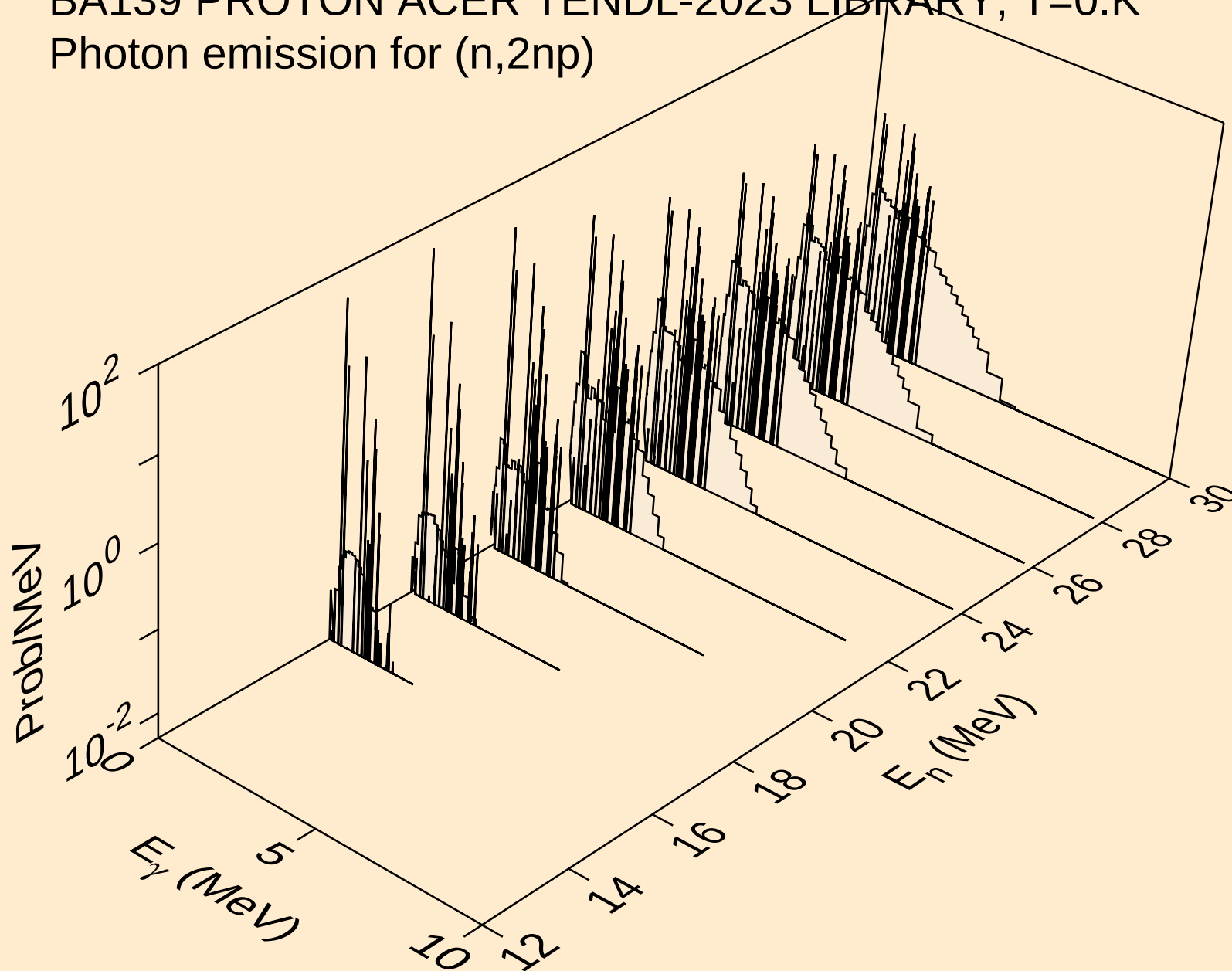
Photon emission for (n,n*)he3



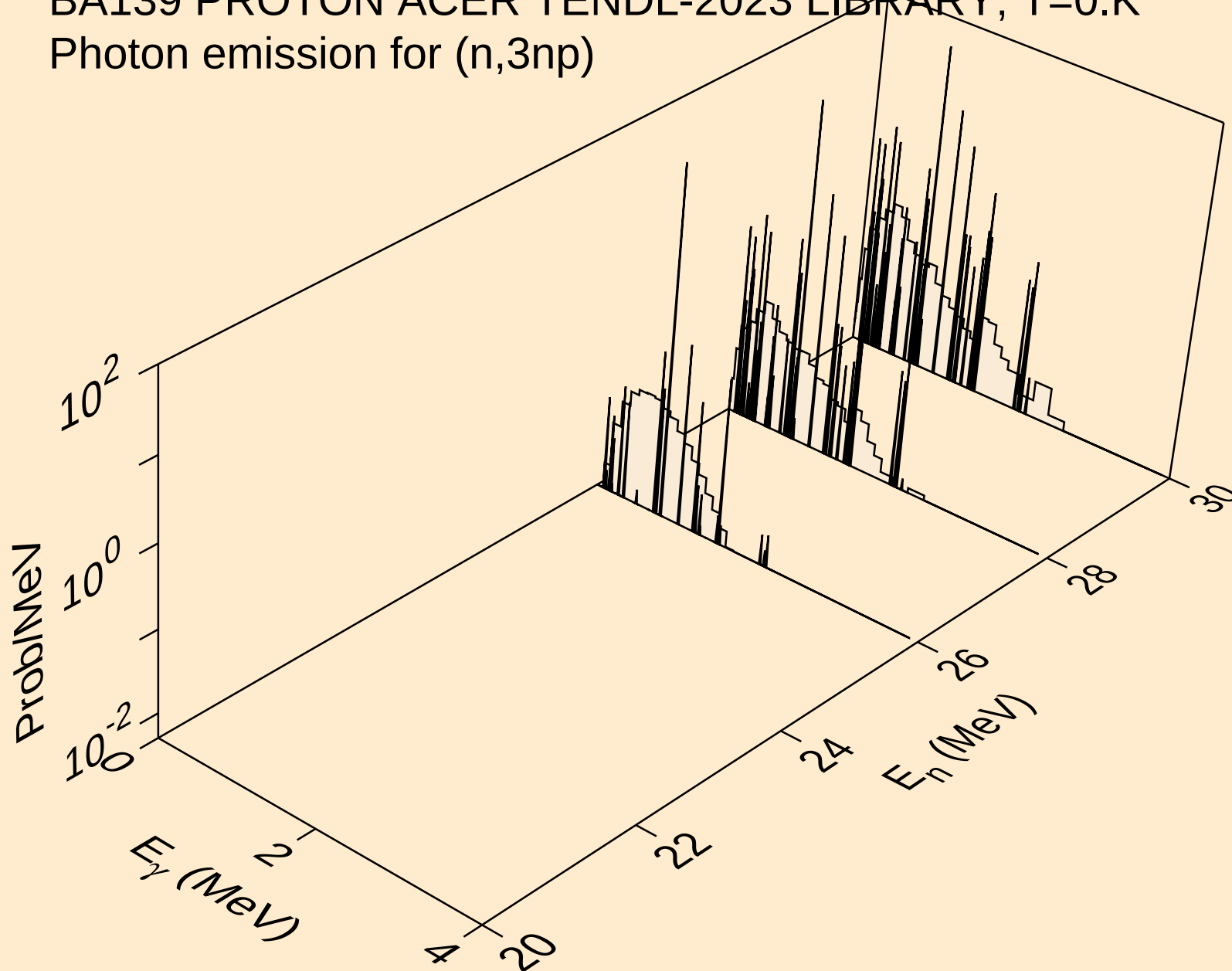
BA139 PROTON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,4n)



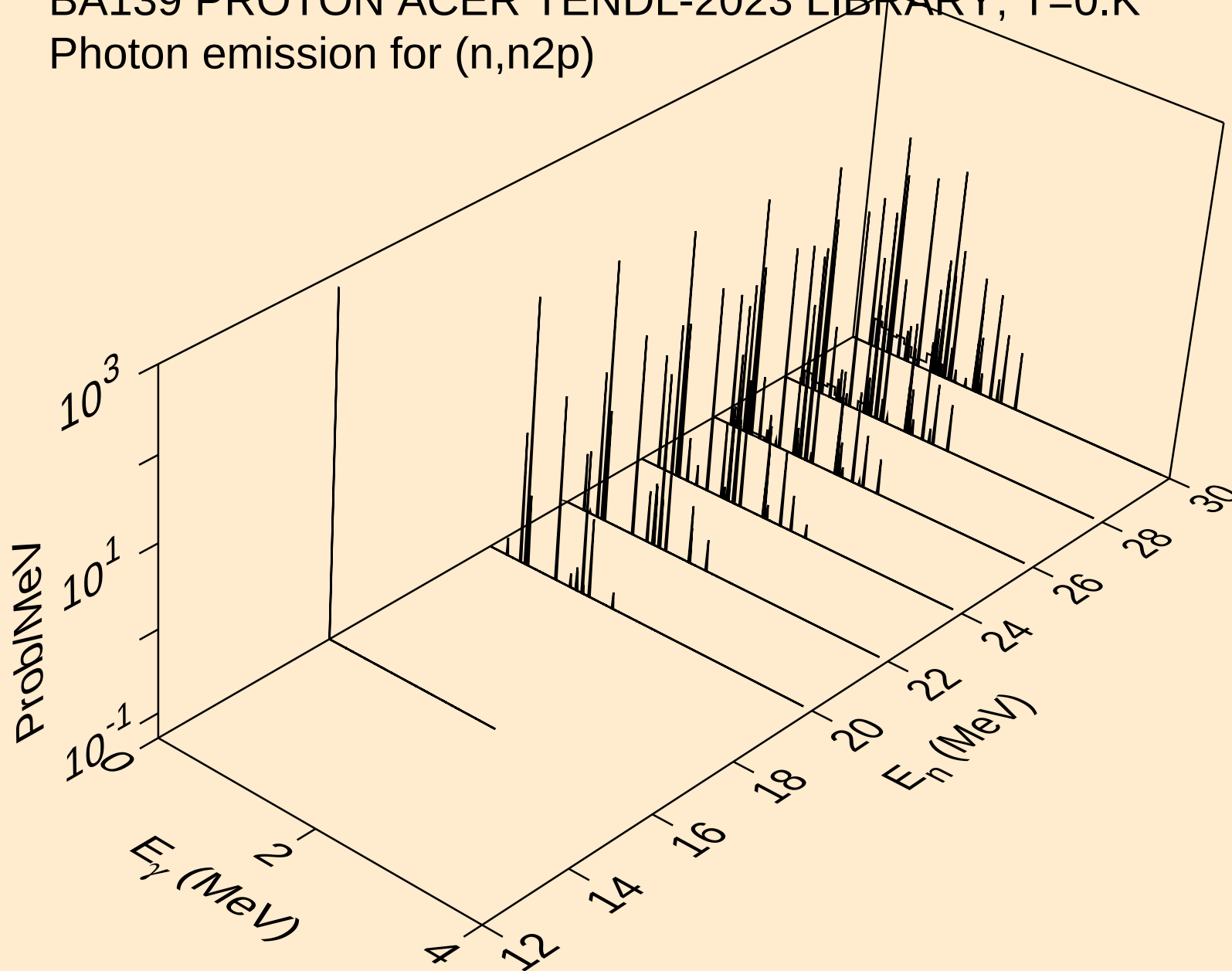
BA139 PROTON ACER TENDL-2023 LIBRARY; $T=0.K$
Photon emission for (n,2np)



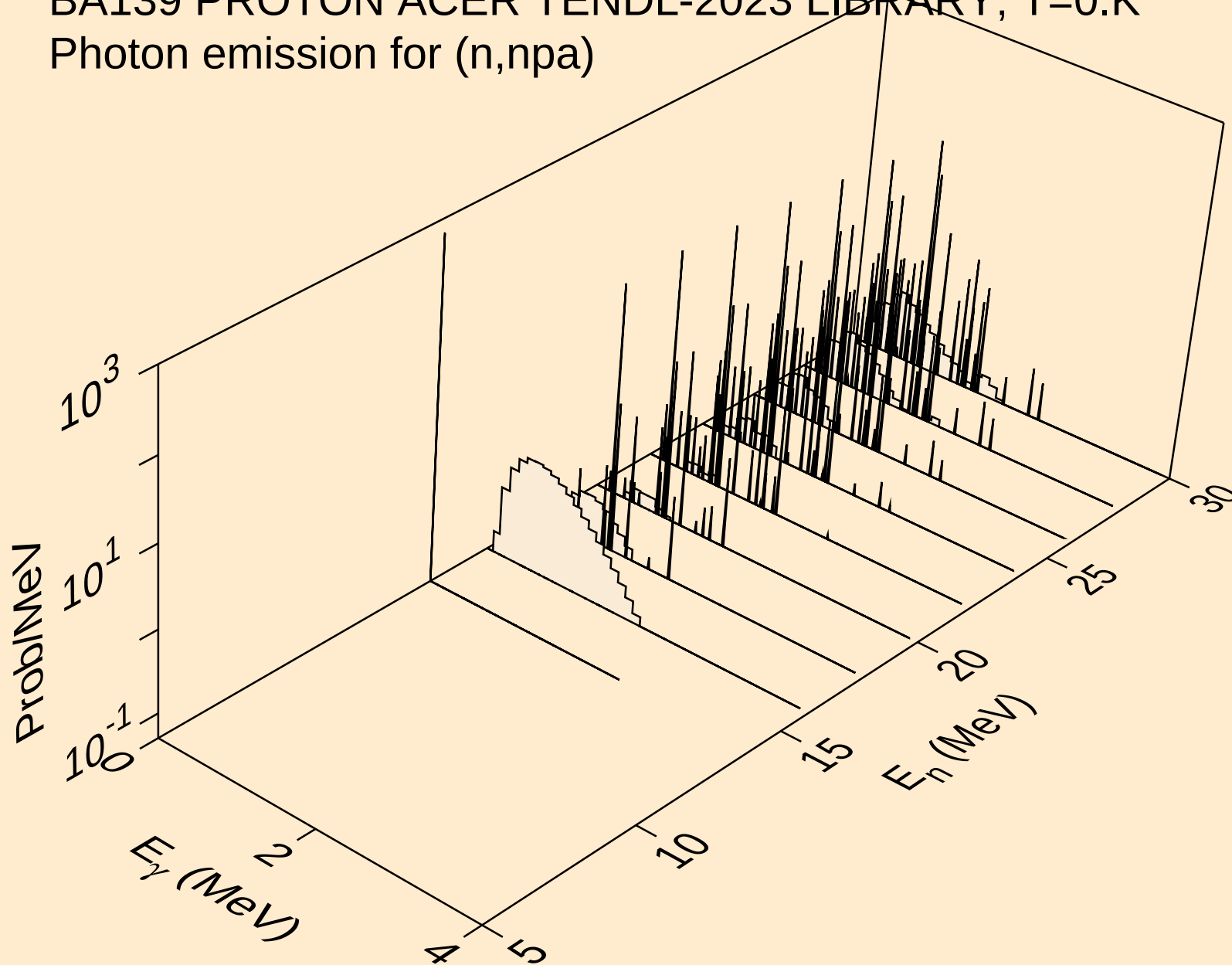
BA139 PROTON ACER TENDL-2023 LIBRARY; $T=0.K$
Photon emission for (n,3np)



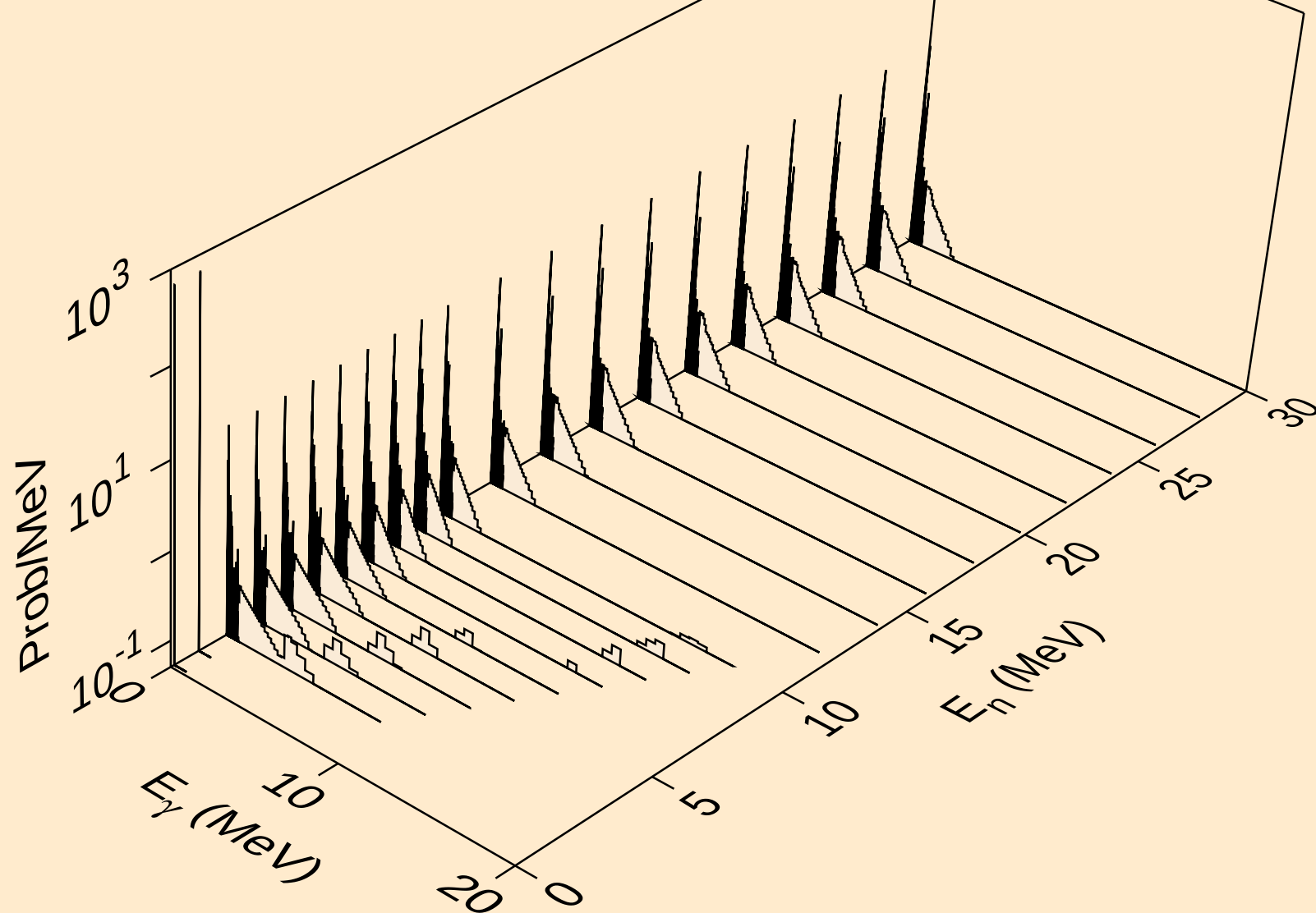
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Photon emission for (n,n2p)



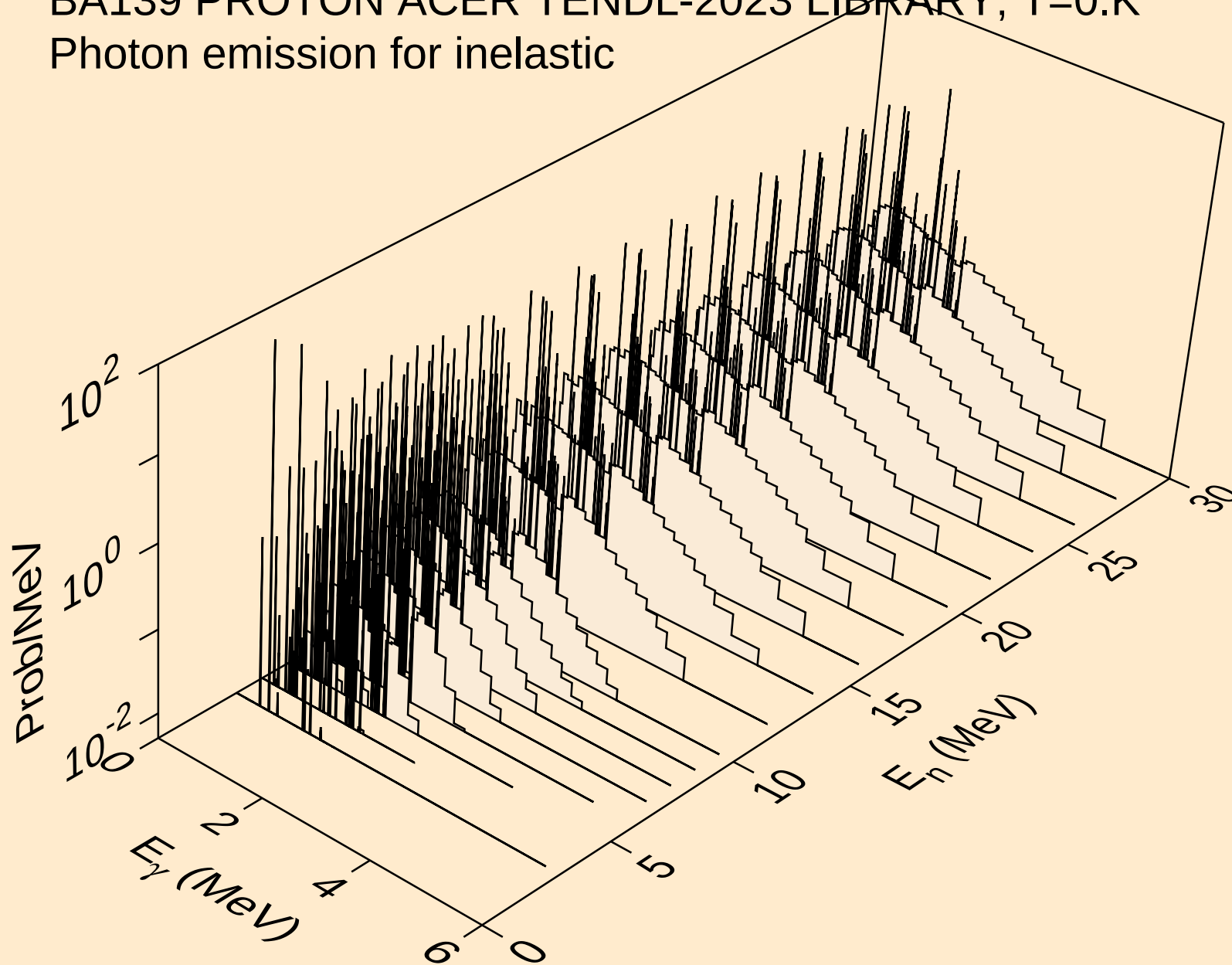
BA139 PROTON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,npa)



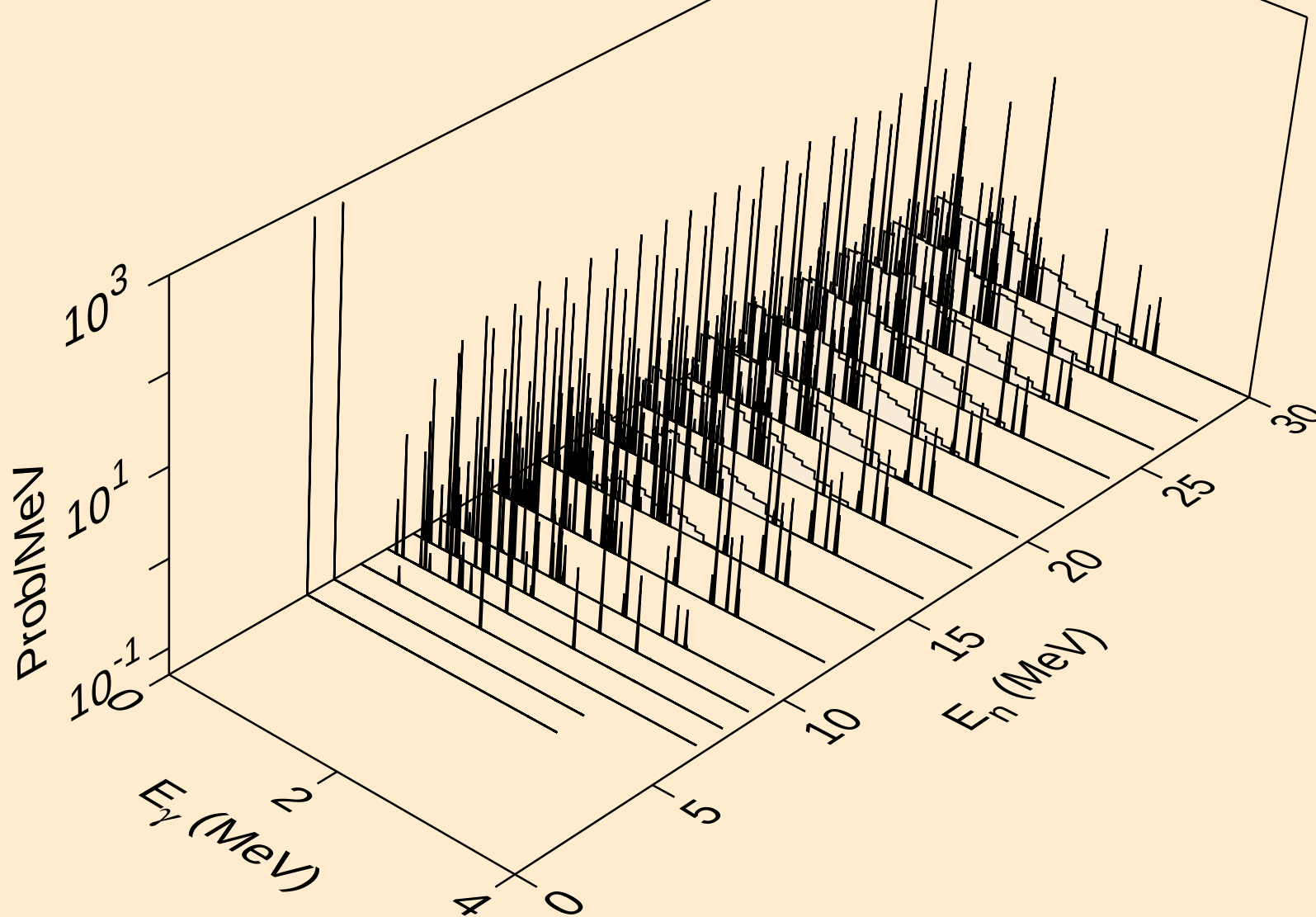
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Photon emission for (n,gma)



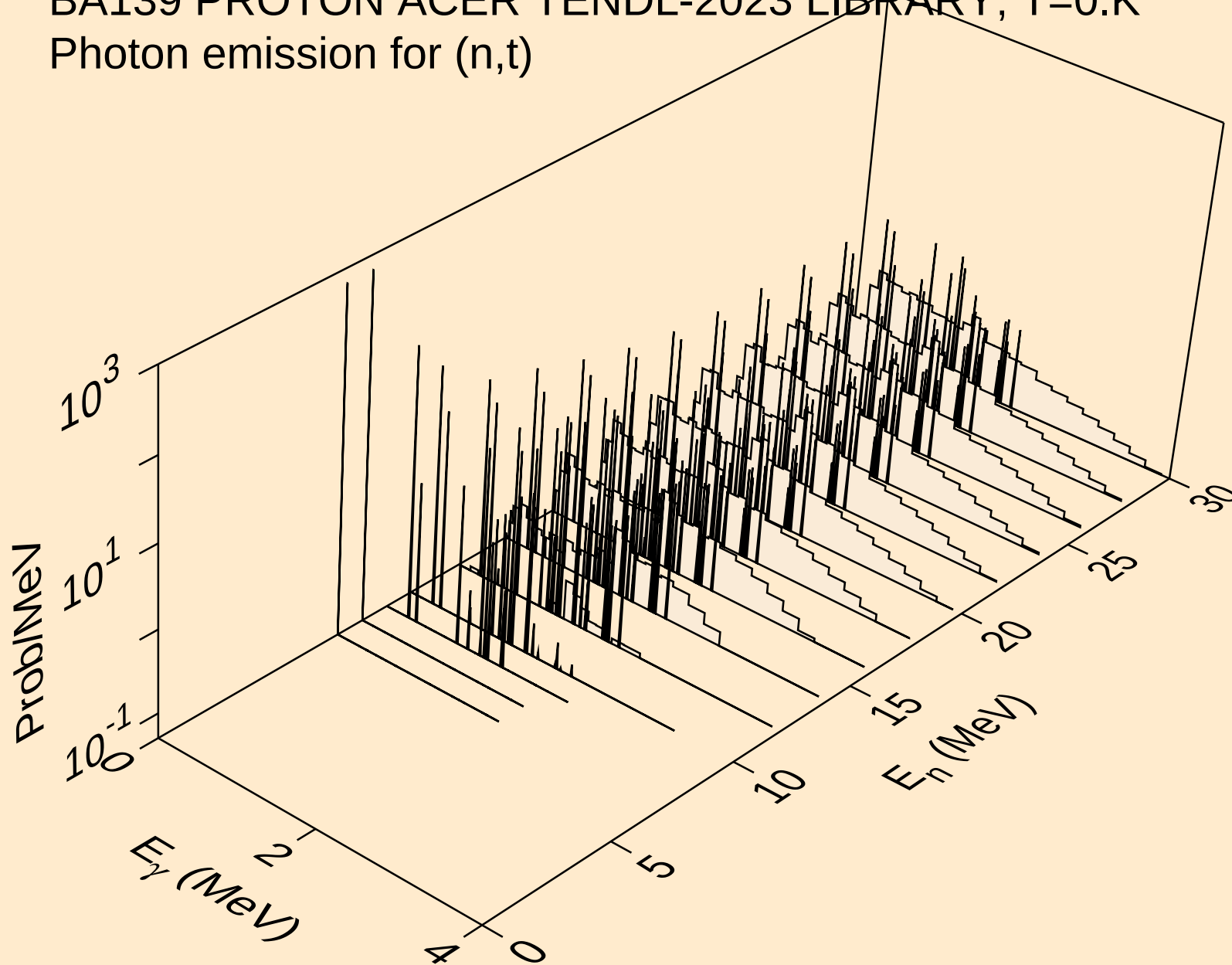
BA139 PROTON ACER TENDL-2023 LIBRARY; $T=0.K$
Photon emission for inelastic



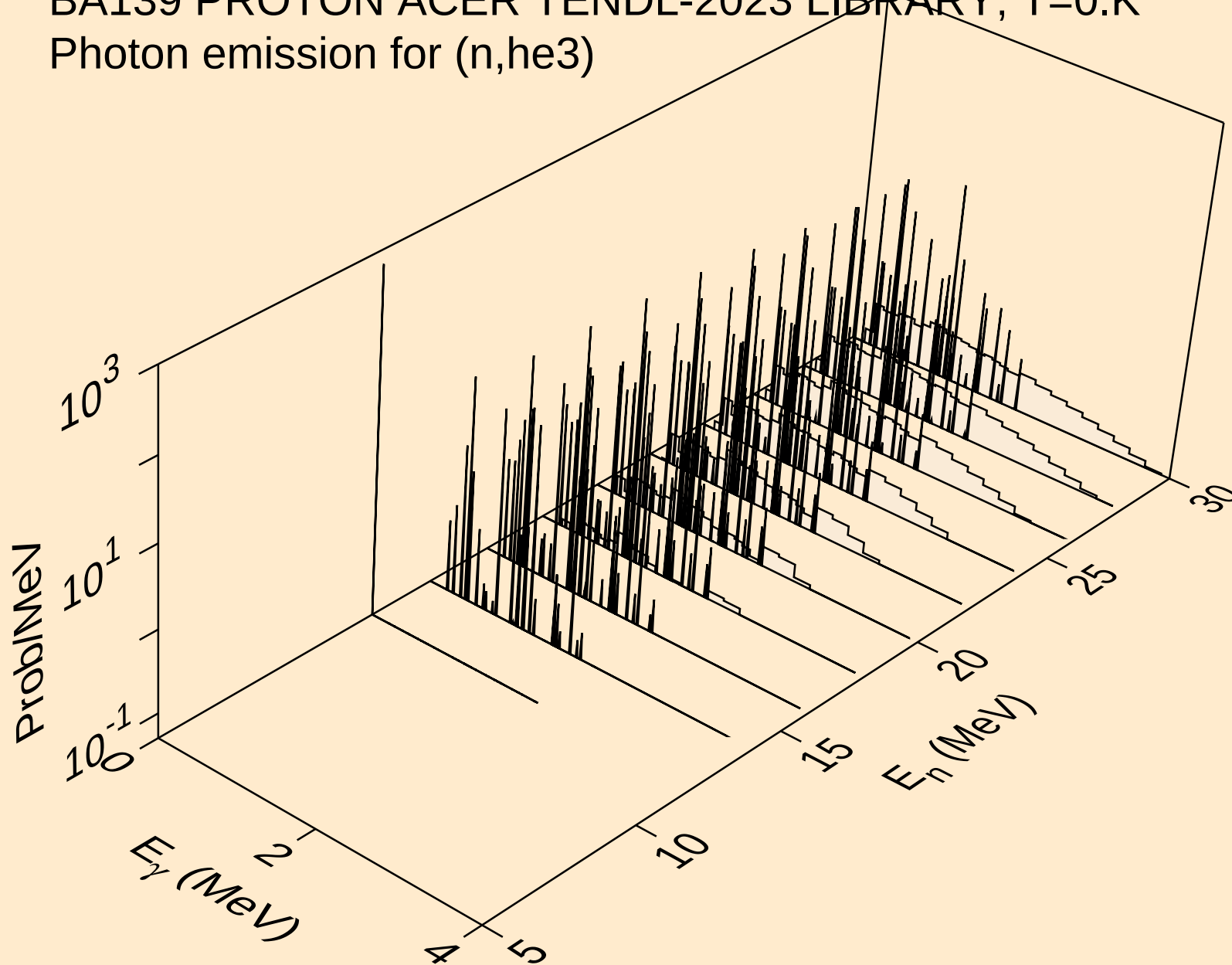
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Photon emission for (n,d)



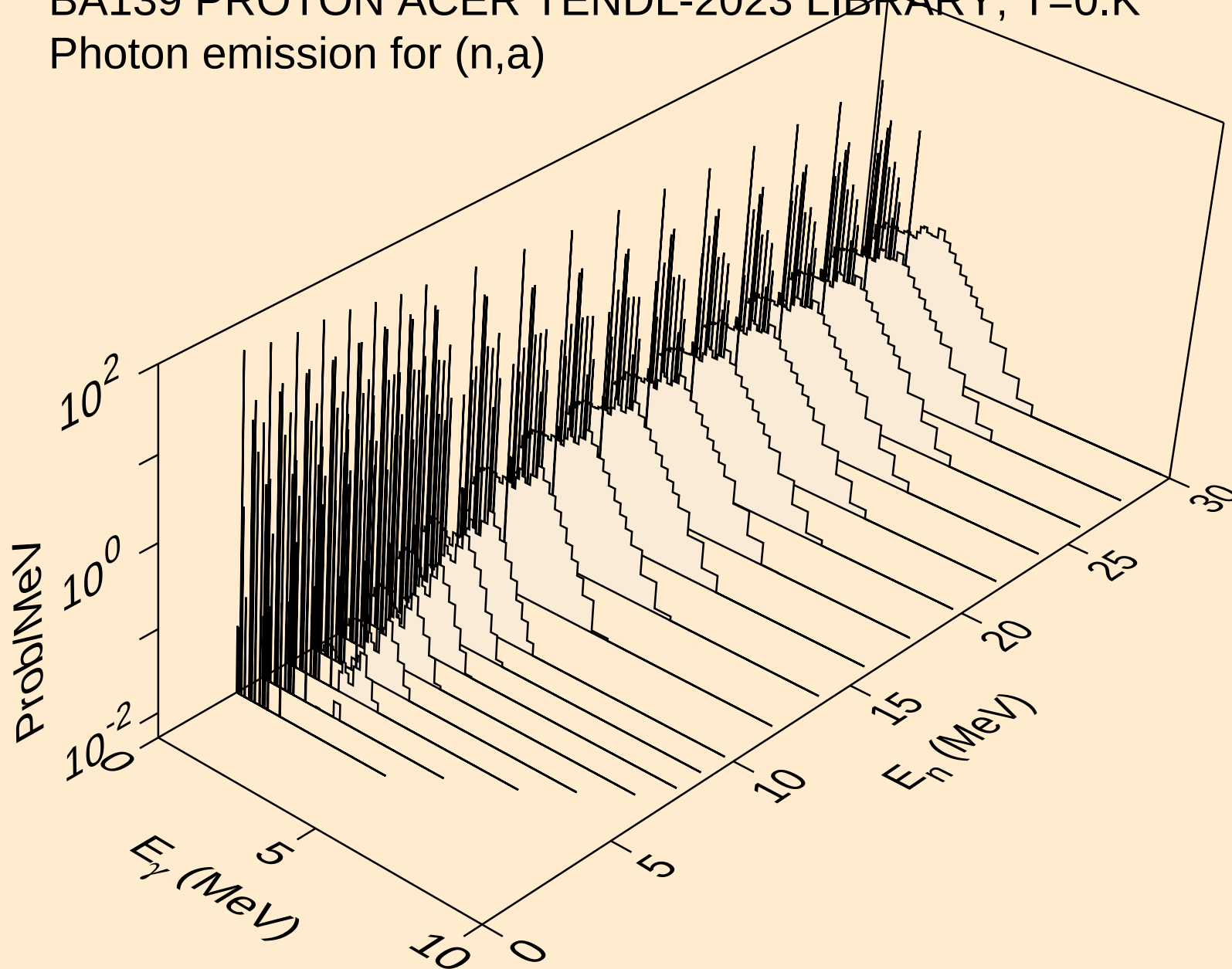
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Photon emission for (n,t)



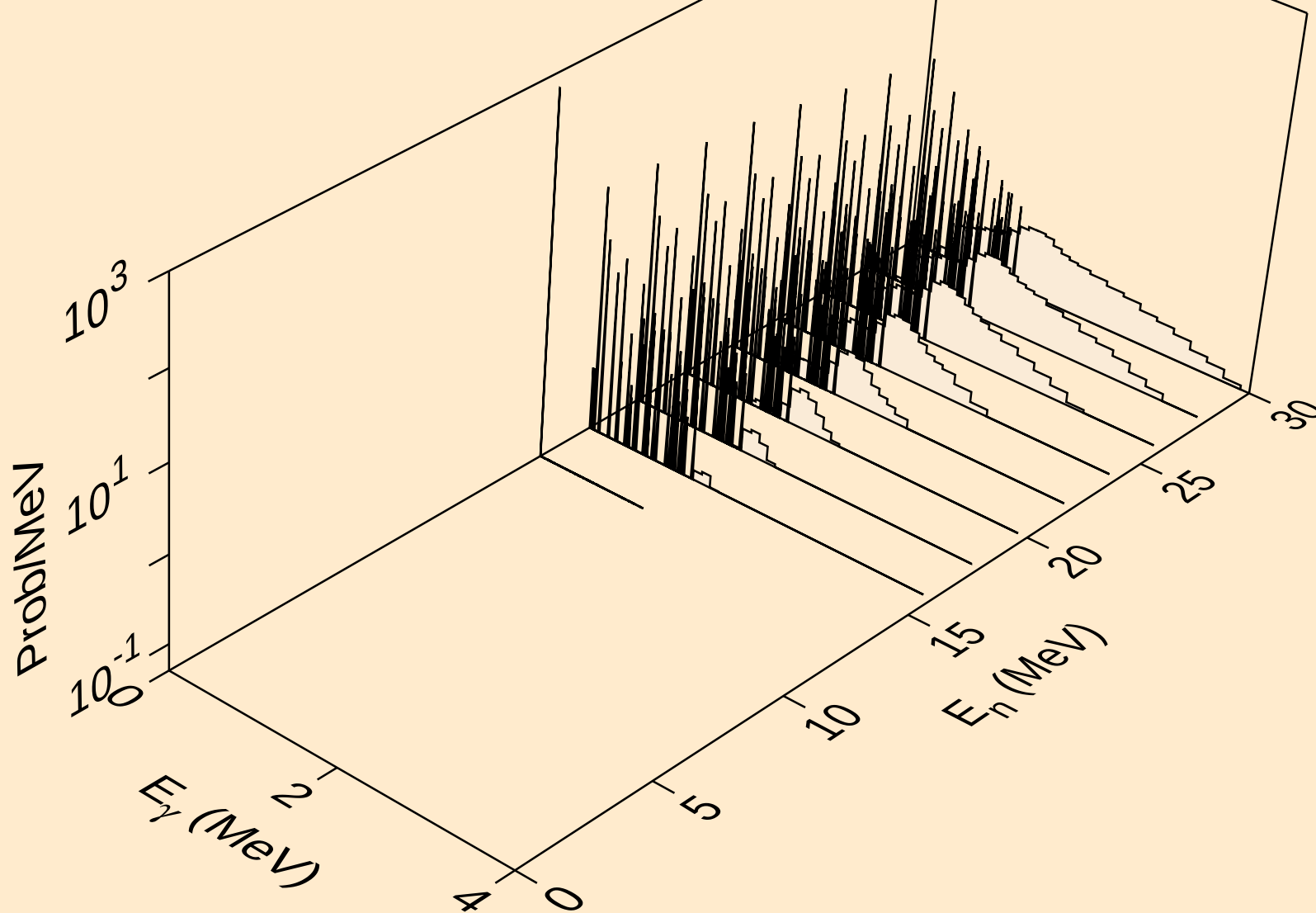
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Photon emission for (n,he3)



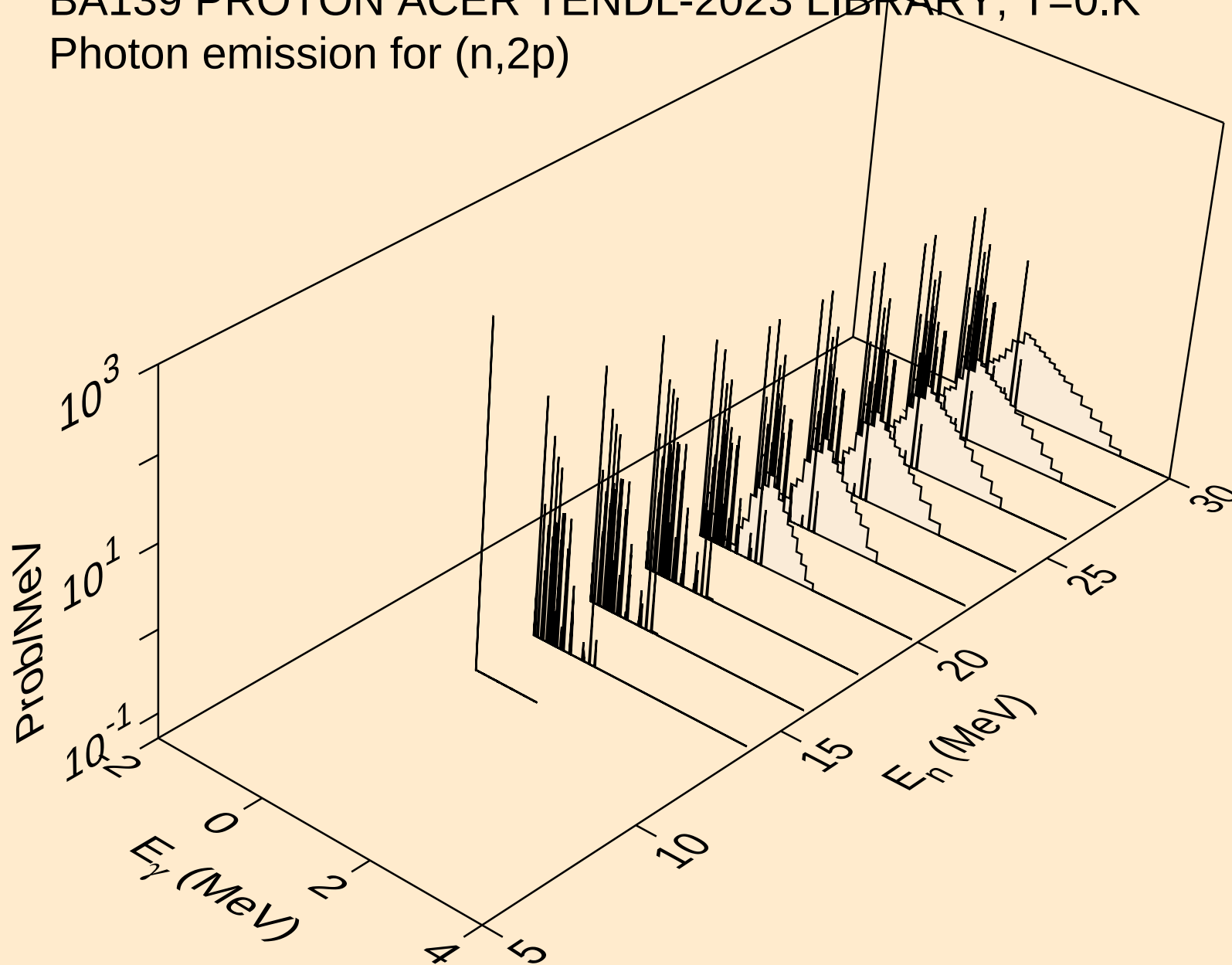
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Photon emission for (n,a)



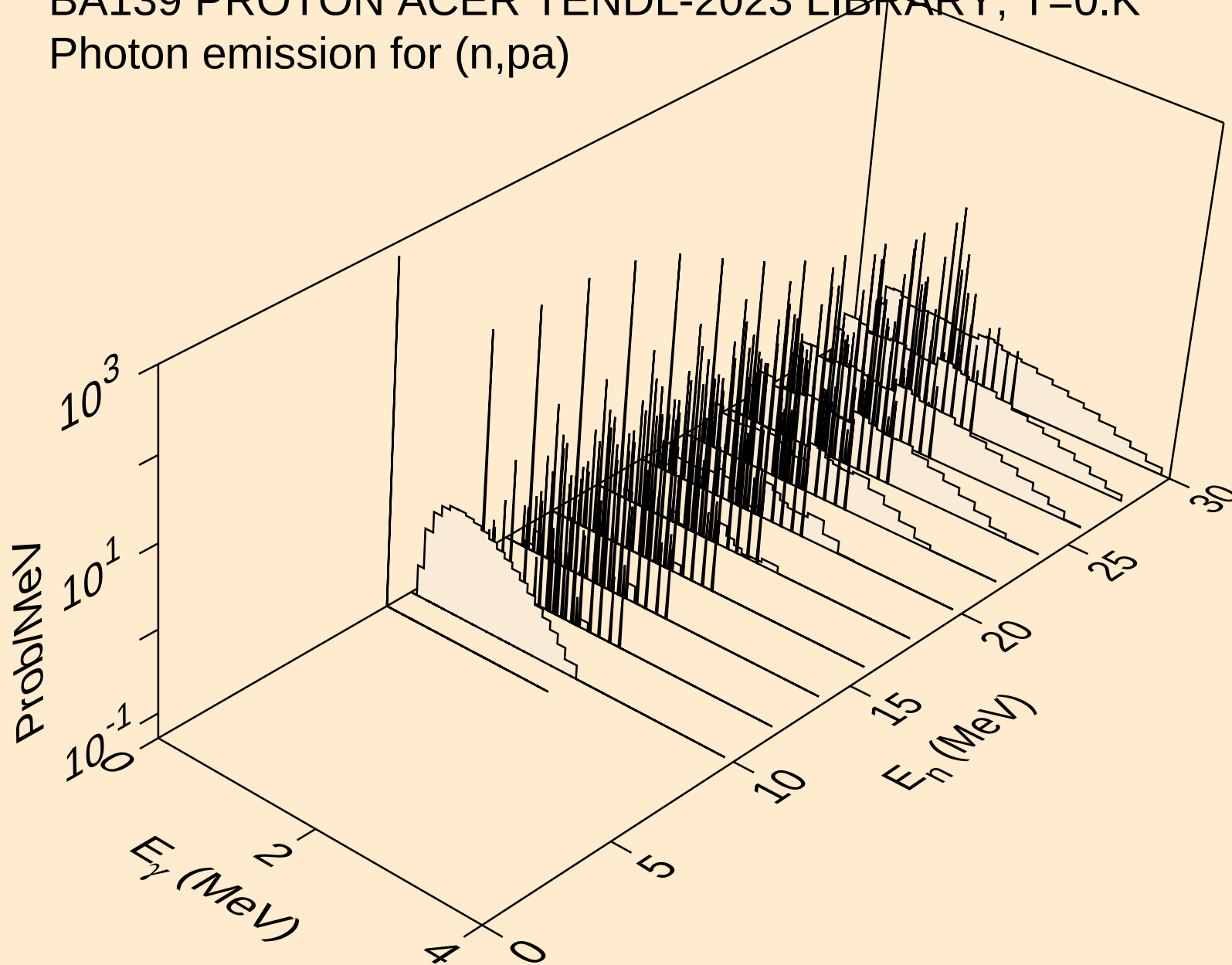
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Photon emission for (n,2a)



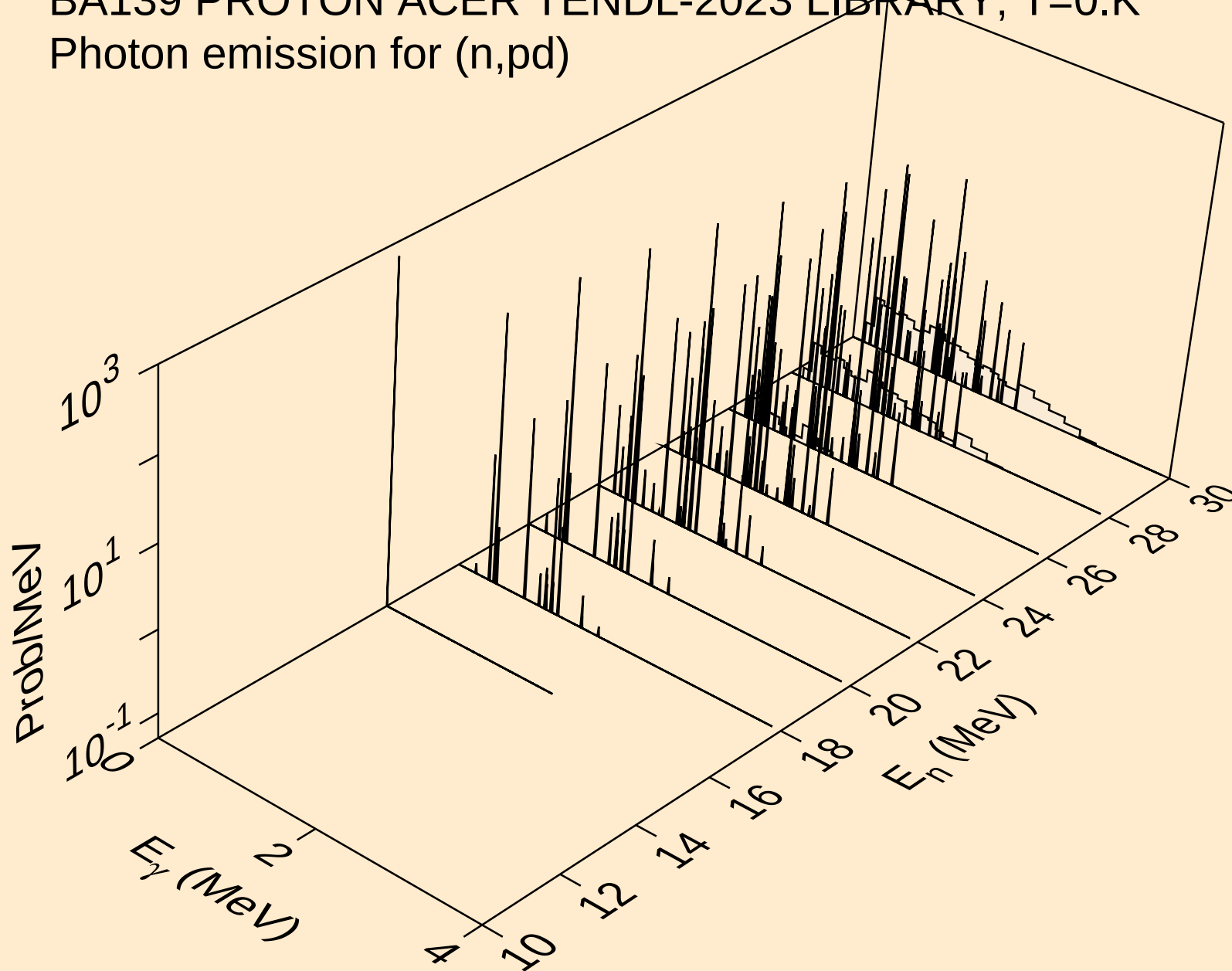
BA139 PROTON ACER TENDL-2023 LIBRARY; $T=0.K$
Photon emission for (n,2p)



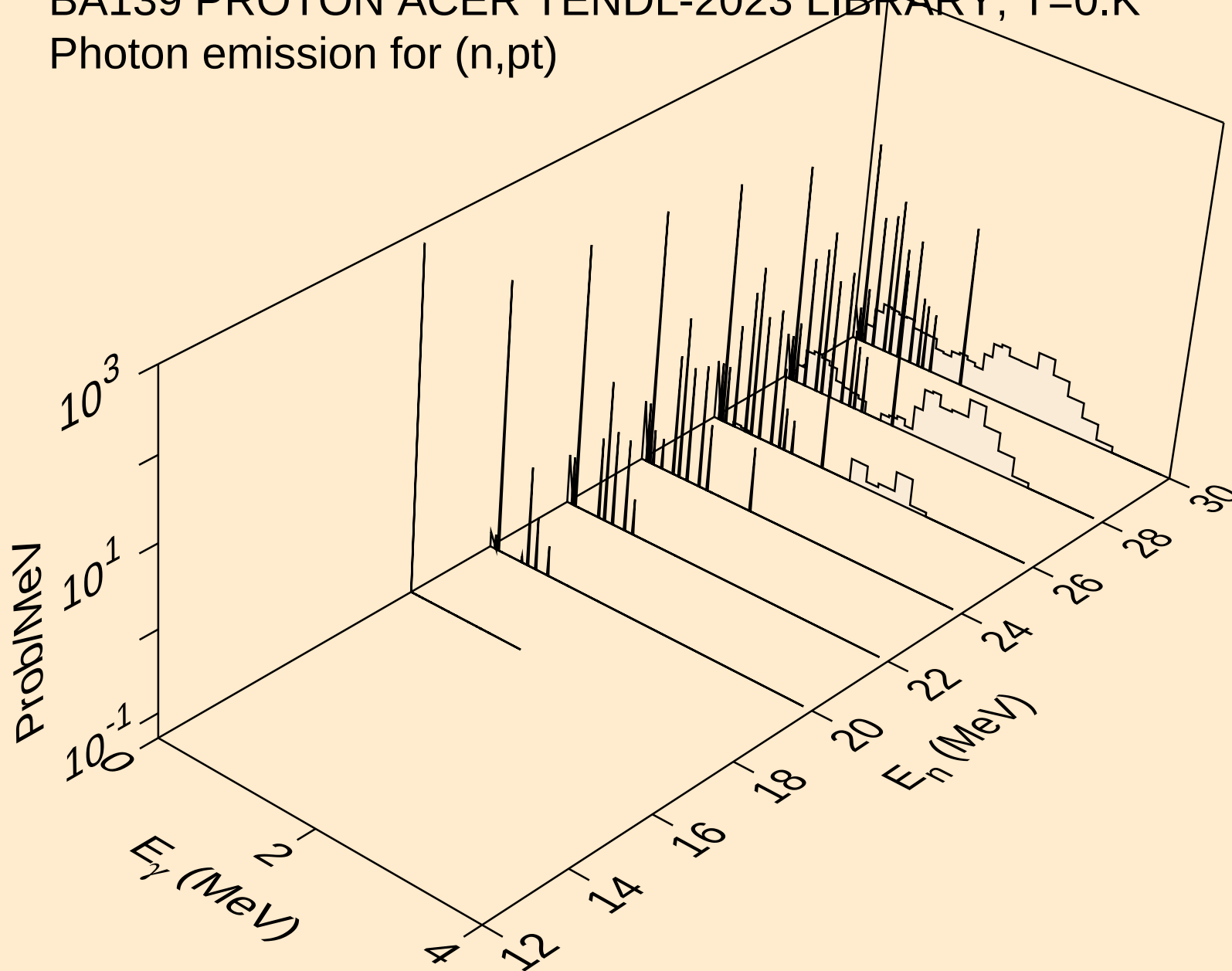
BA139 PROTON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,p α)



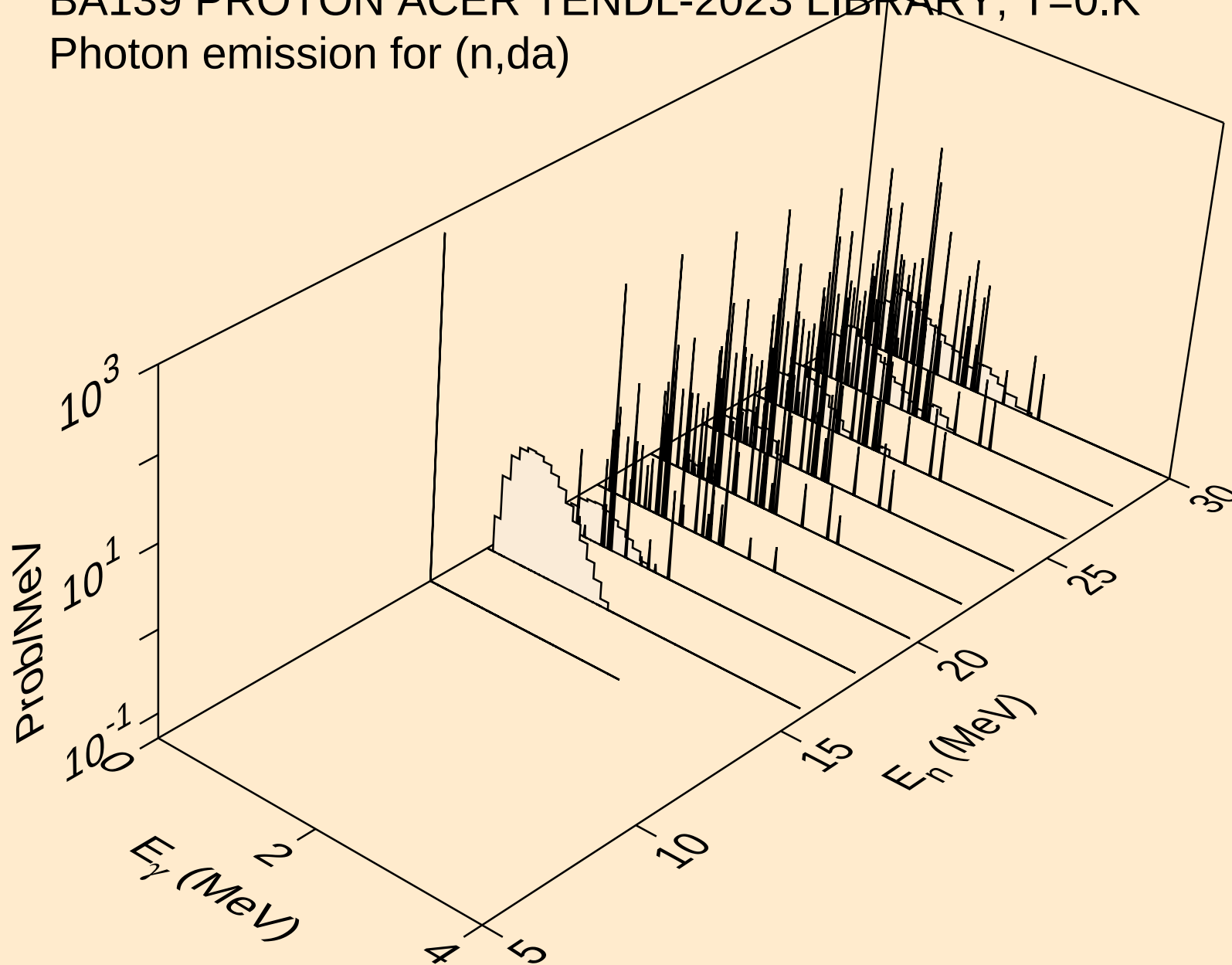
BA139 PROTON ACER TENDL-2023 LIBRARY; $T=0.K$
Photon emission for (n,pd)



BA139 PROTON ACER TENDL-2023 LIBRARY; $T=0.K$
Photon emission for (n,pt)

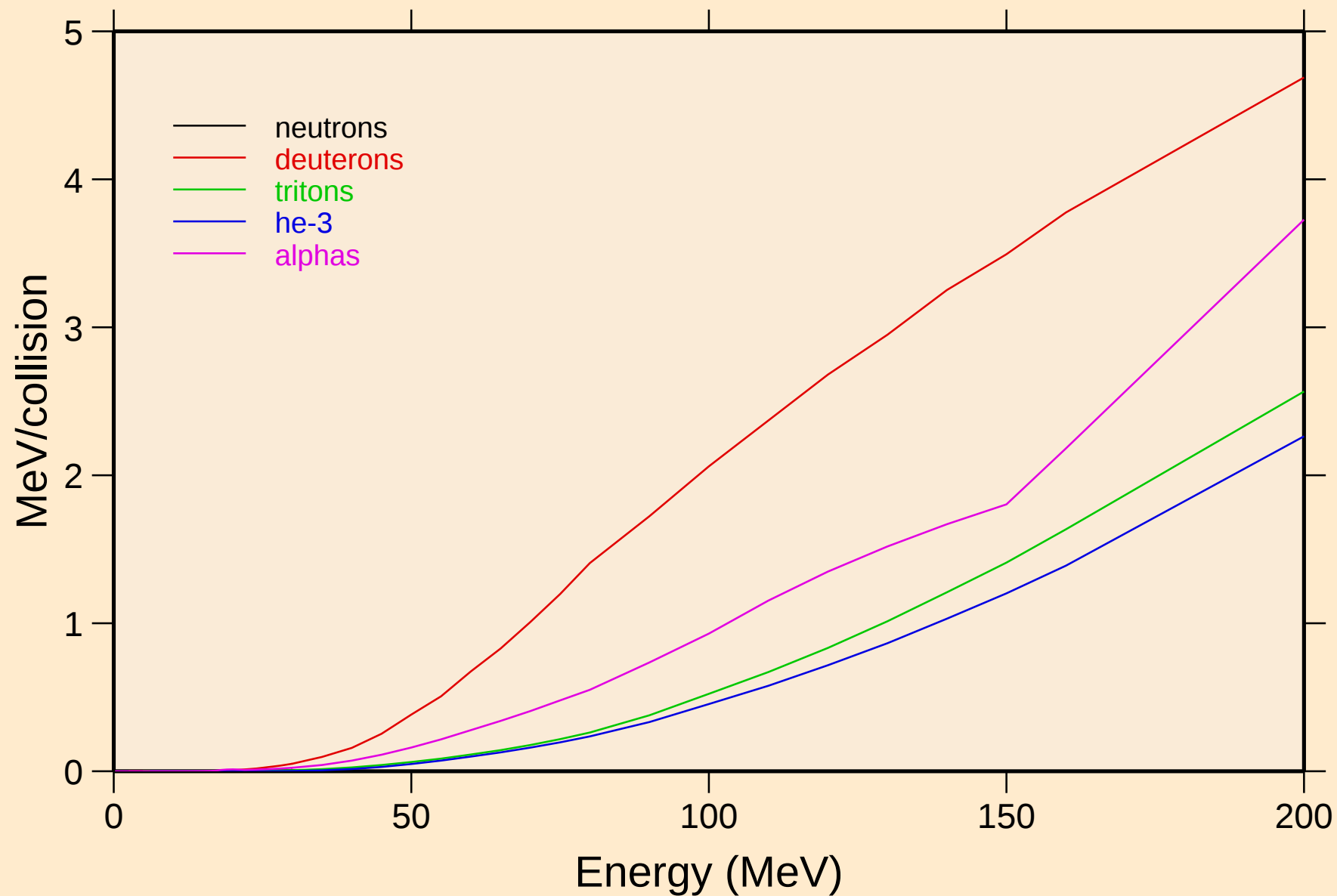


BA139 PROTON ACER TENDL-2023 LIBRARY; $T=0.K$
Photon emission for (n,da)



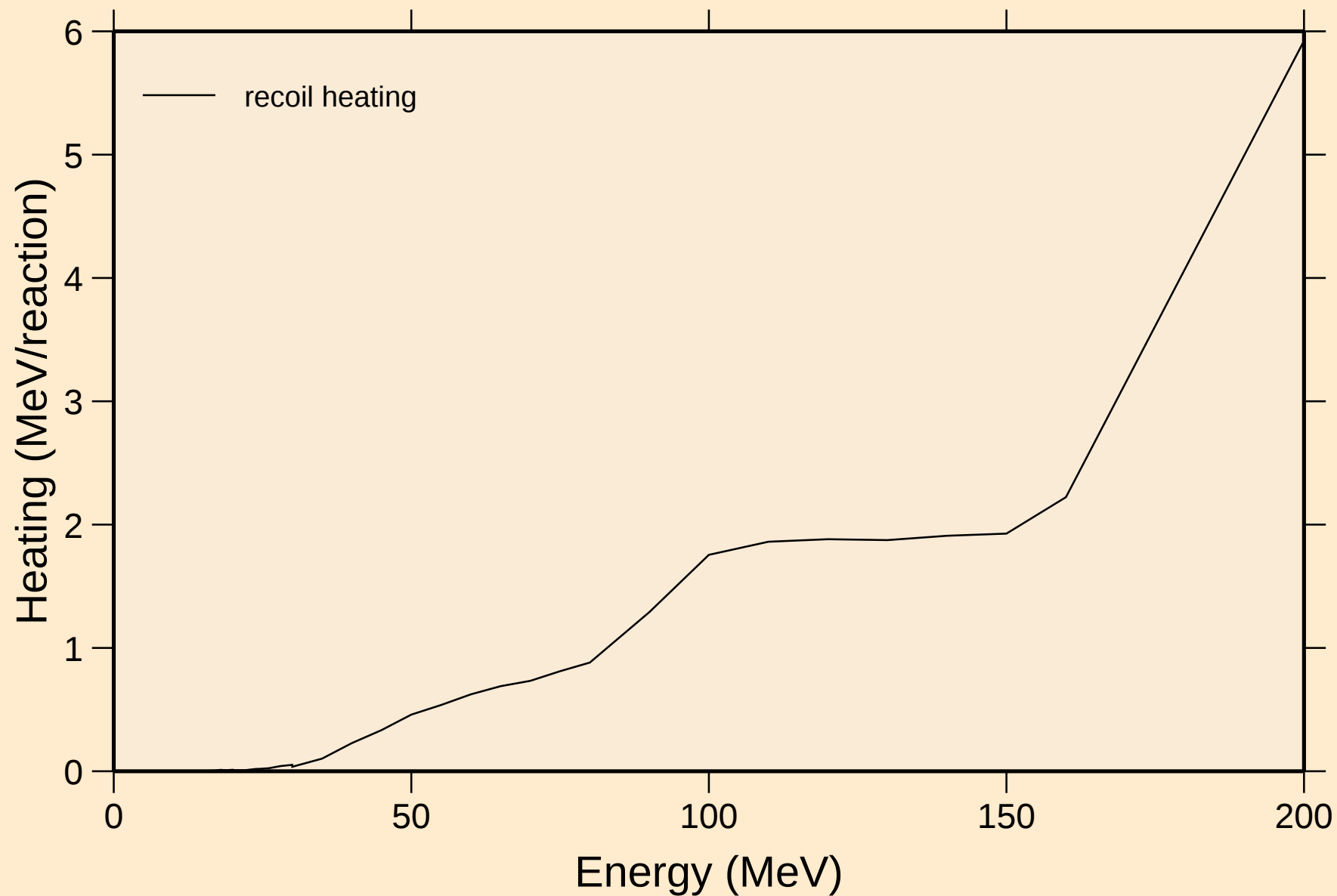
BA139 PROTON ACER TENDL-2023 LIBRARY; T=0.K

Particle heating contributions



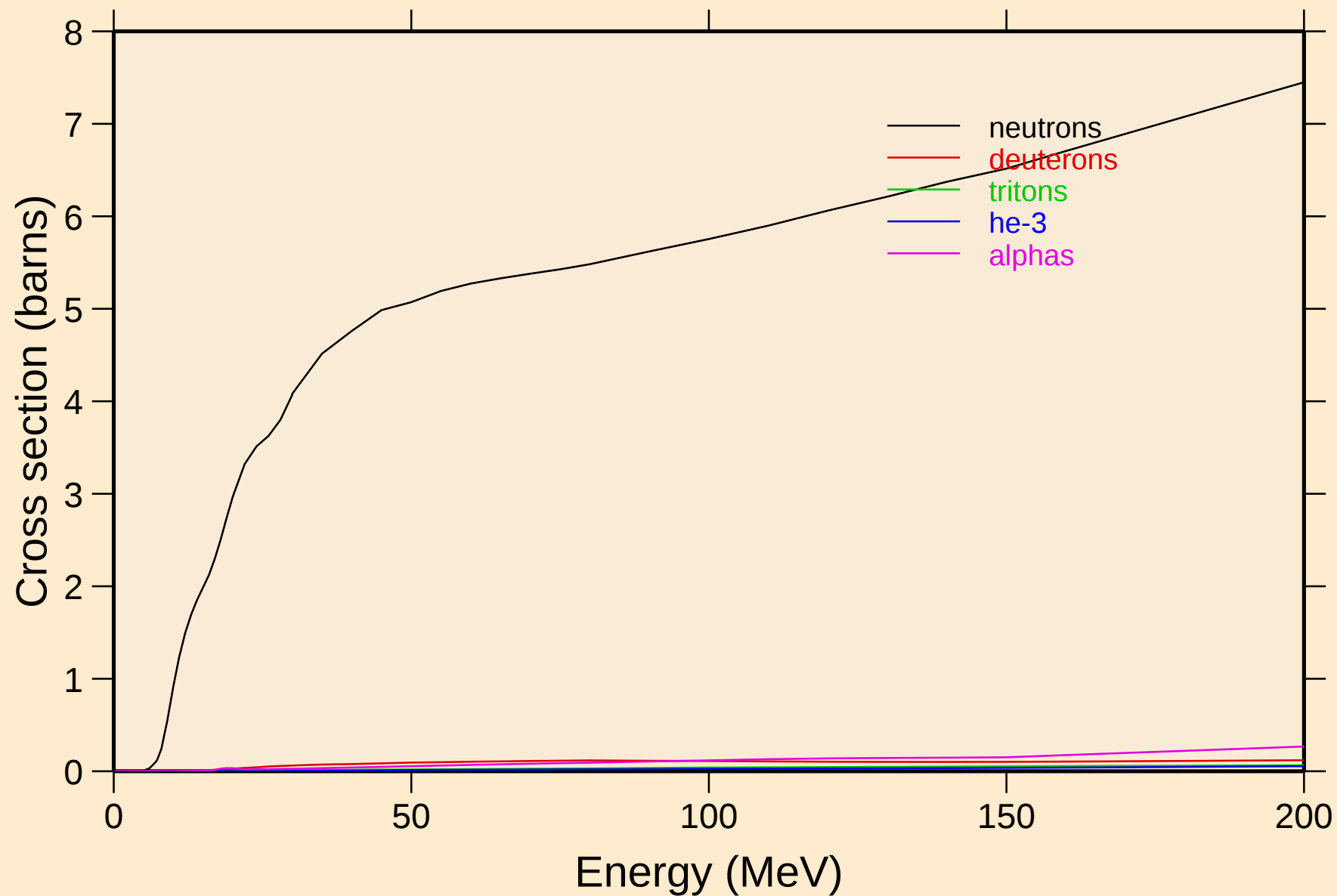
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Recoil Heating

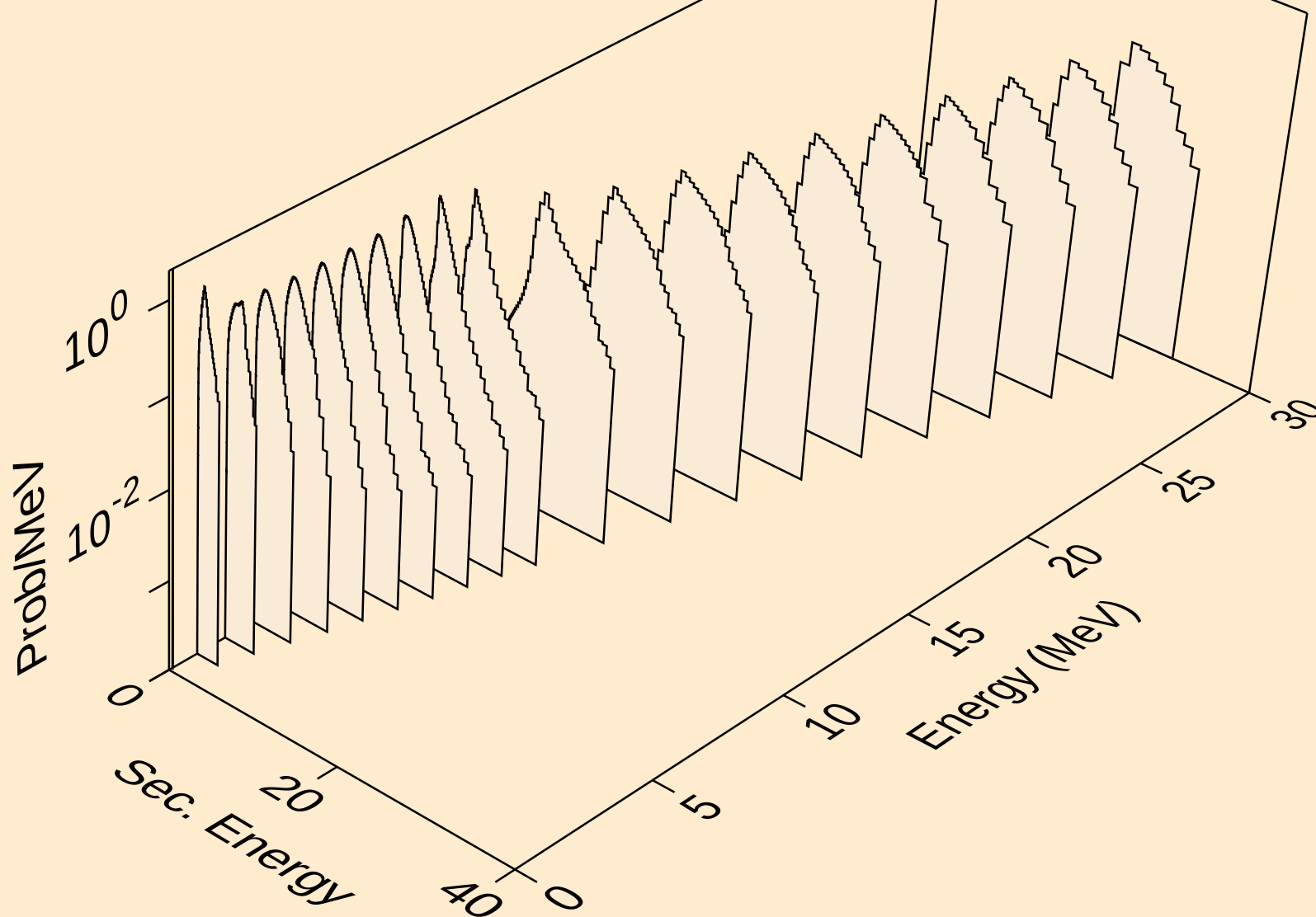


BA139 PROTON ACER TENDL-2023 LIBRARY; T=0.K

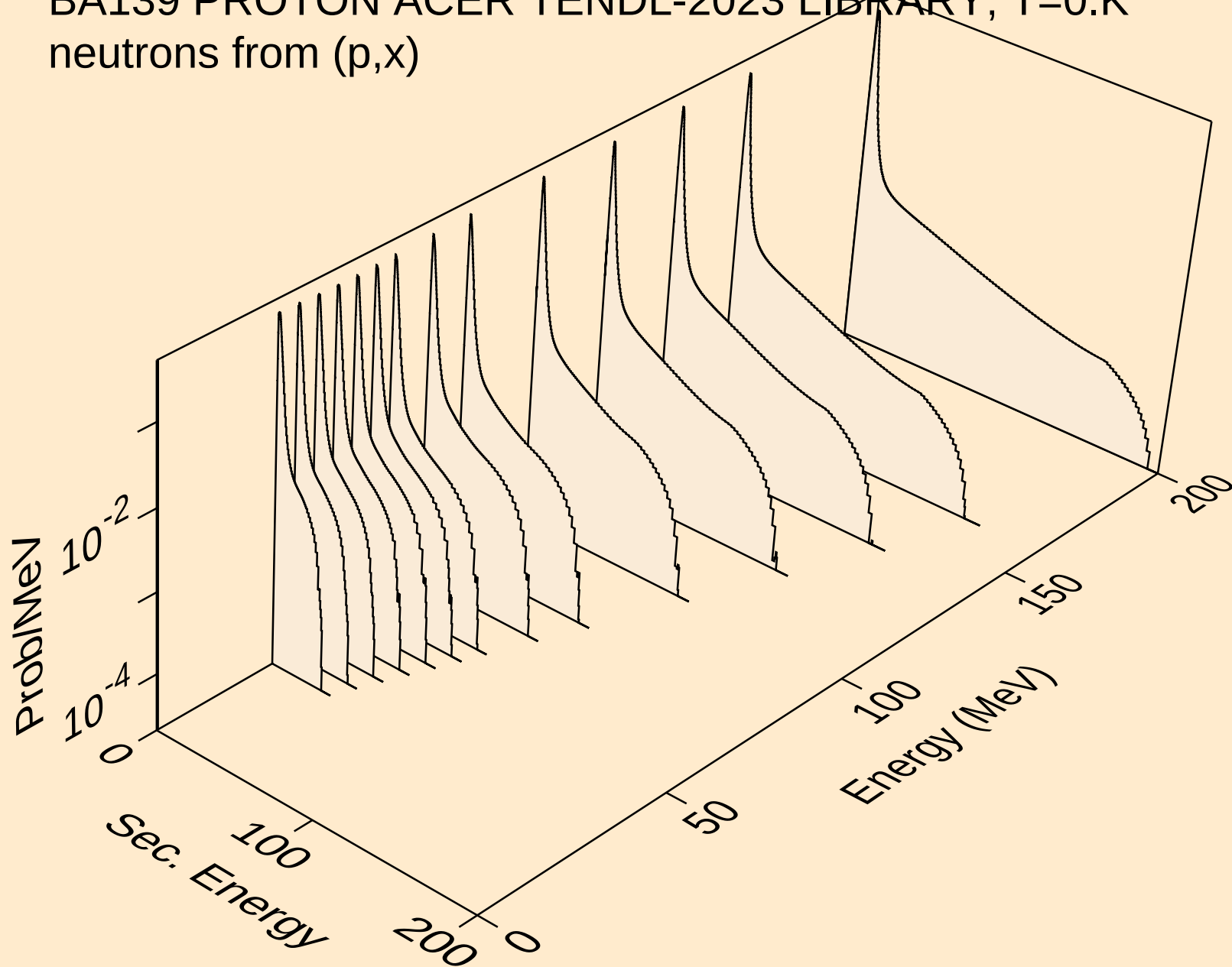
Particle production cross sections



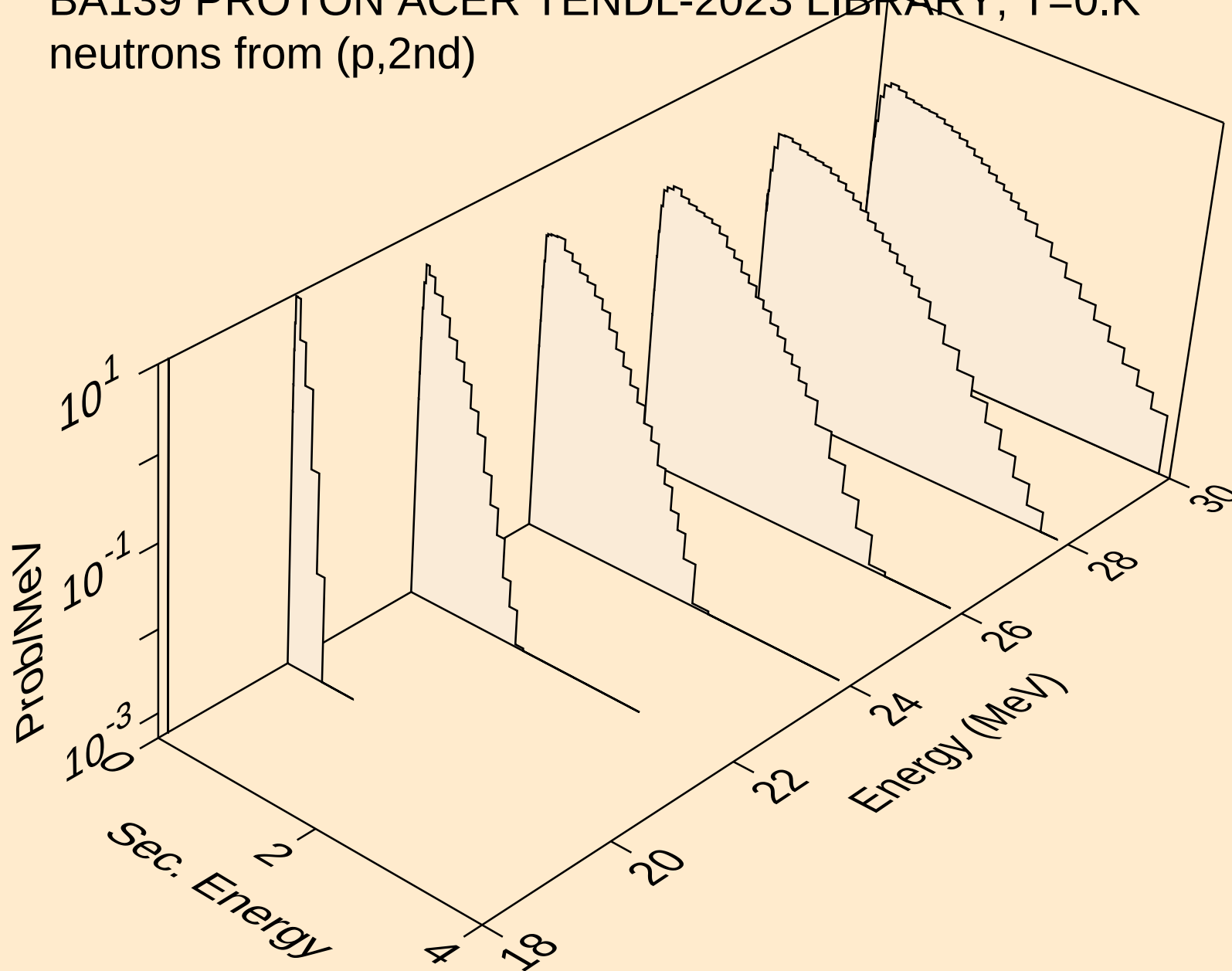
BA139 PROTON ACER TENDL-2023 LIBRARY; T=0.K
neutrons from (p,n)



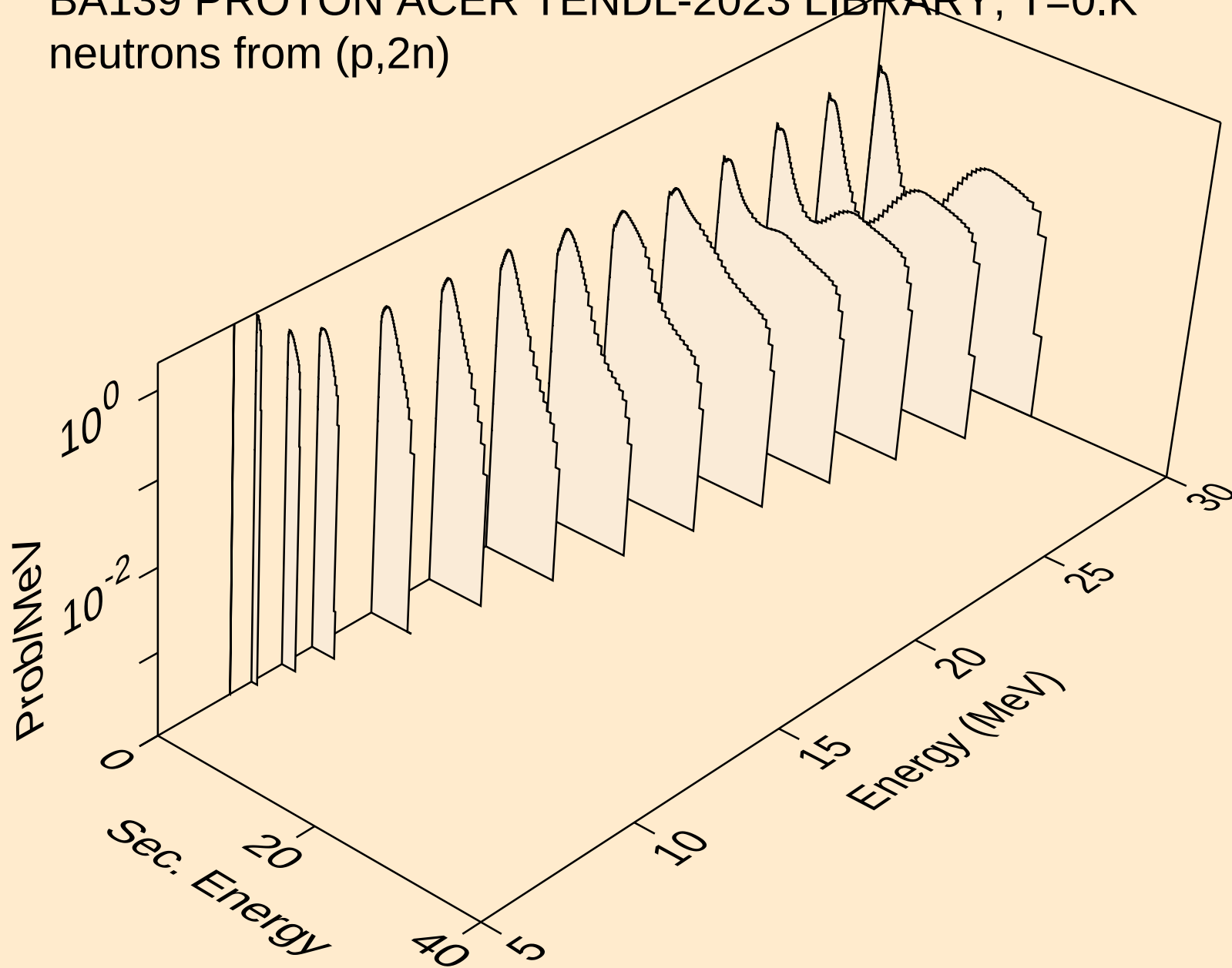
BA139 PROTON ACER TENDL-2023 LIBRARY; T=0.K
neutrons from (p,x)



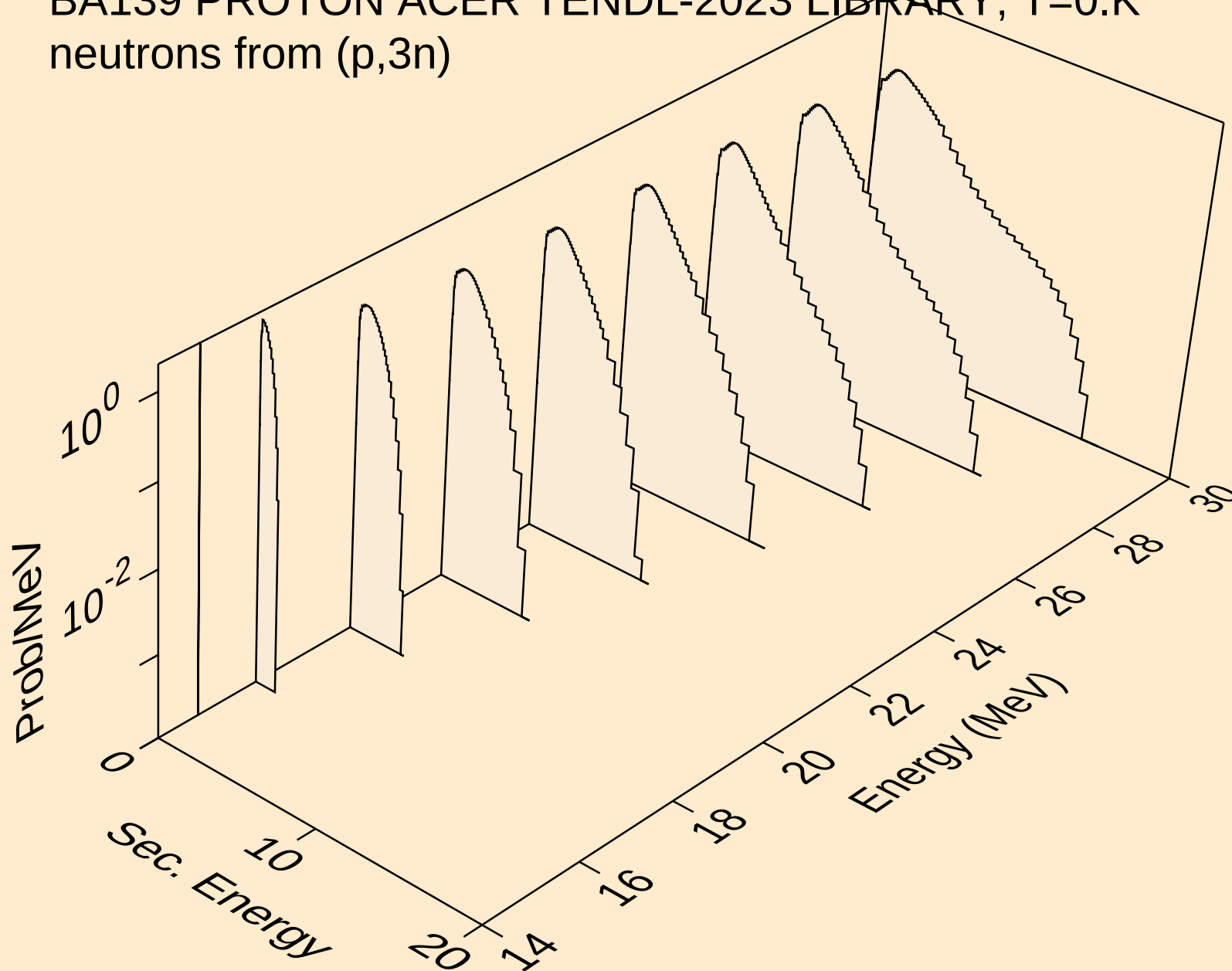
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neutrons from (p,2nd)



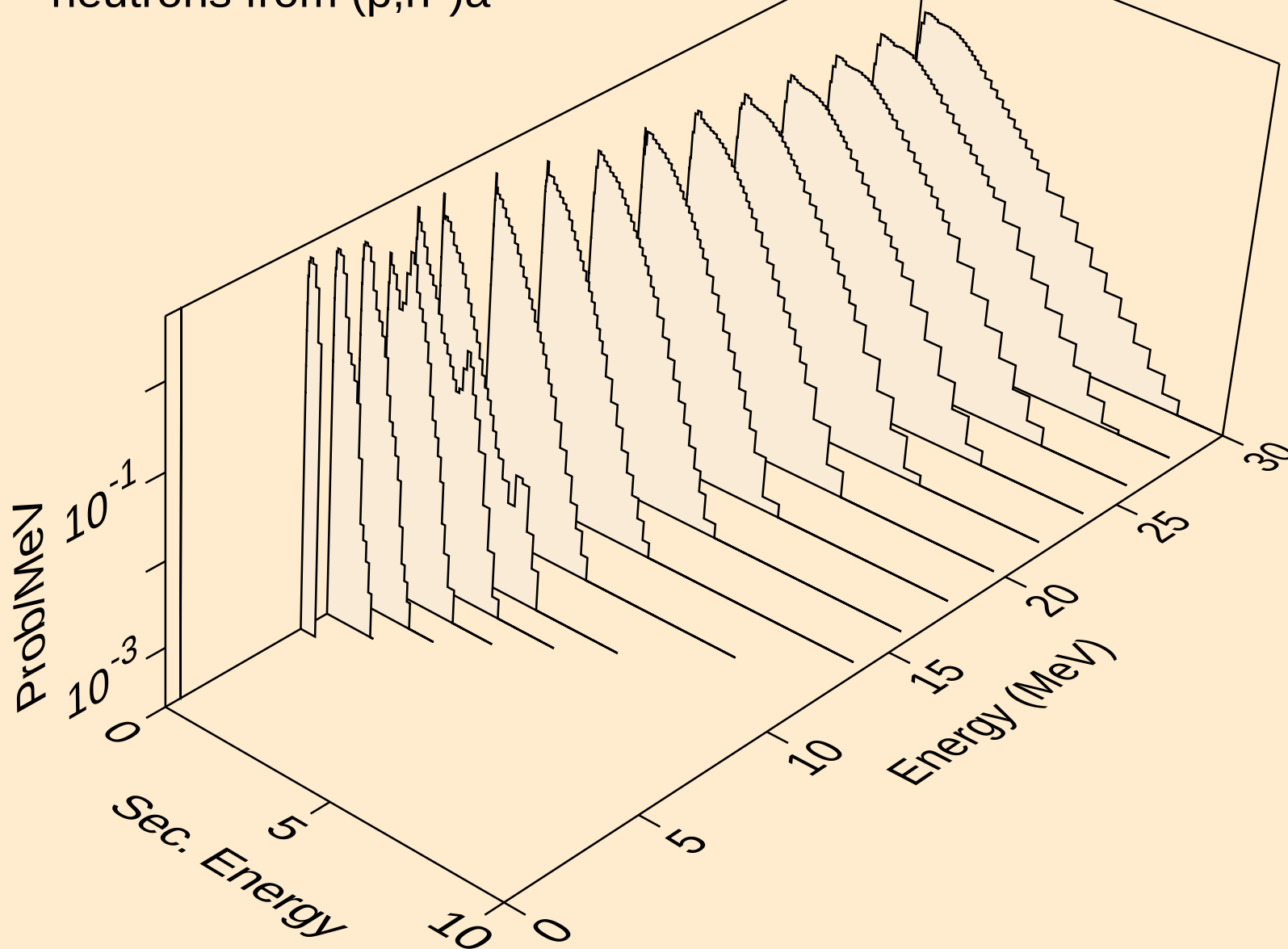
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neutrons from (p,2n)



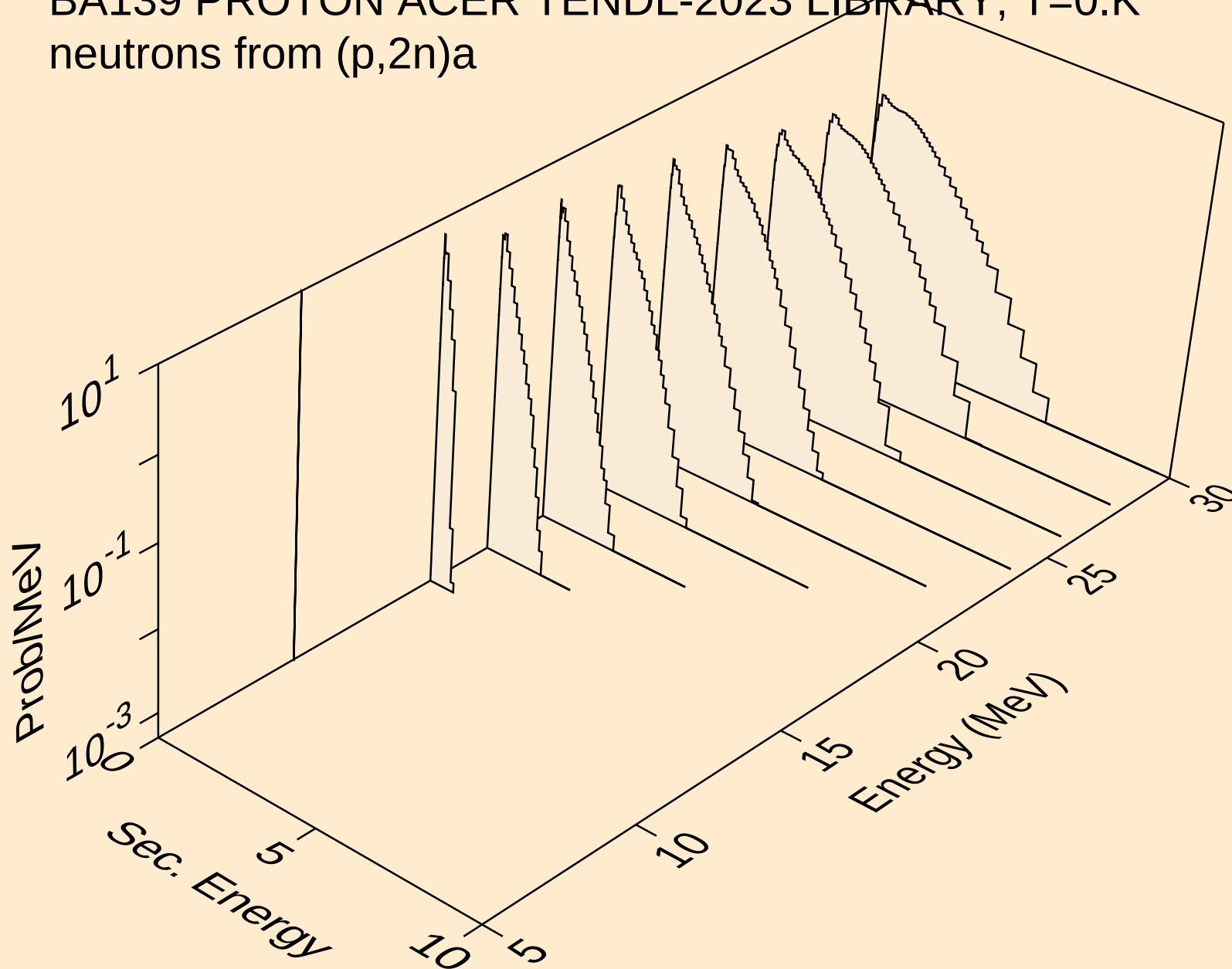
BA139 PROTON ACER TENDL-2023 LIBRARY; T=0.K
neutrons from (p,3n)



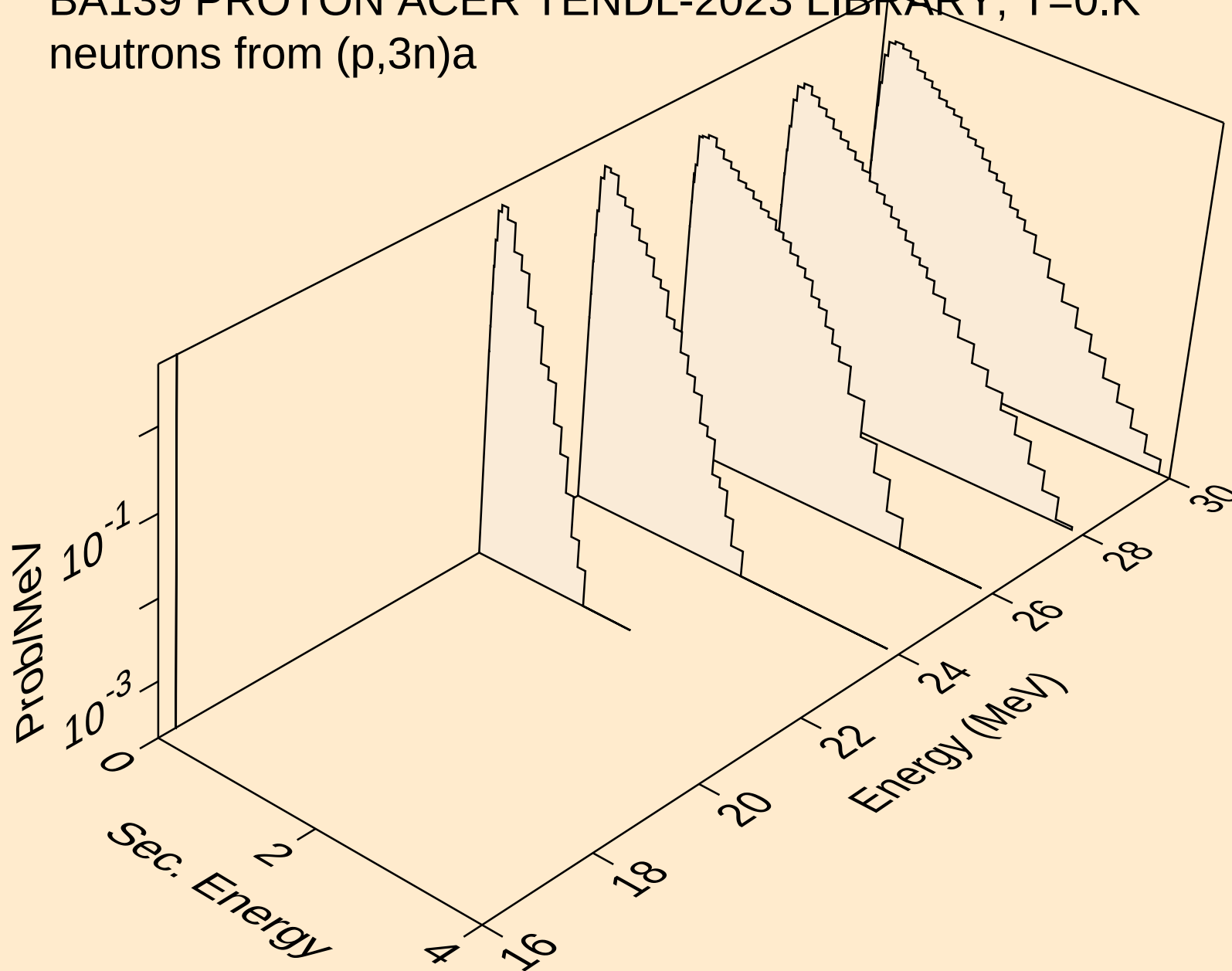
BA139 PROTON ACER TENDL-2023 LIBRARY; T=0.K
neutrons from (p,n*)a



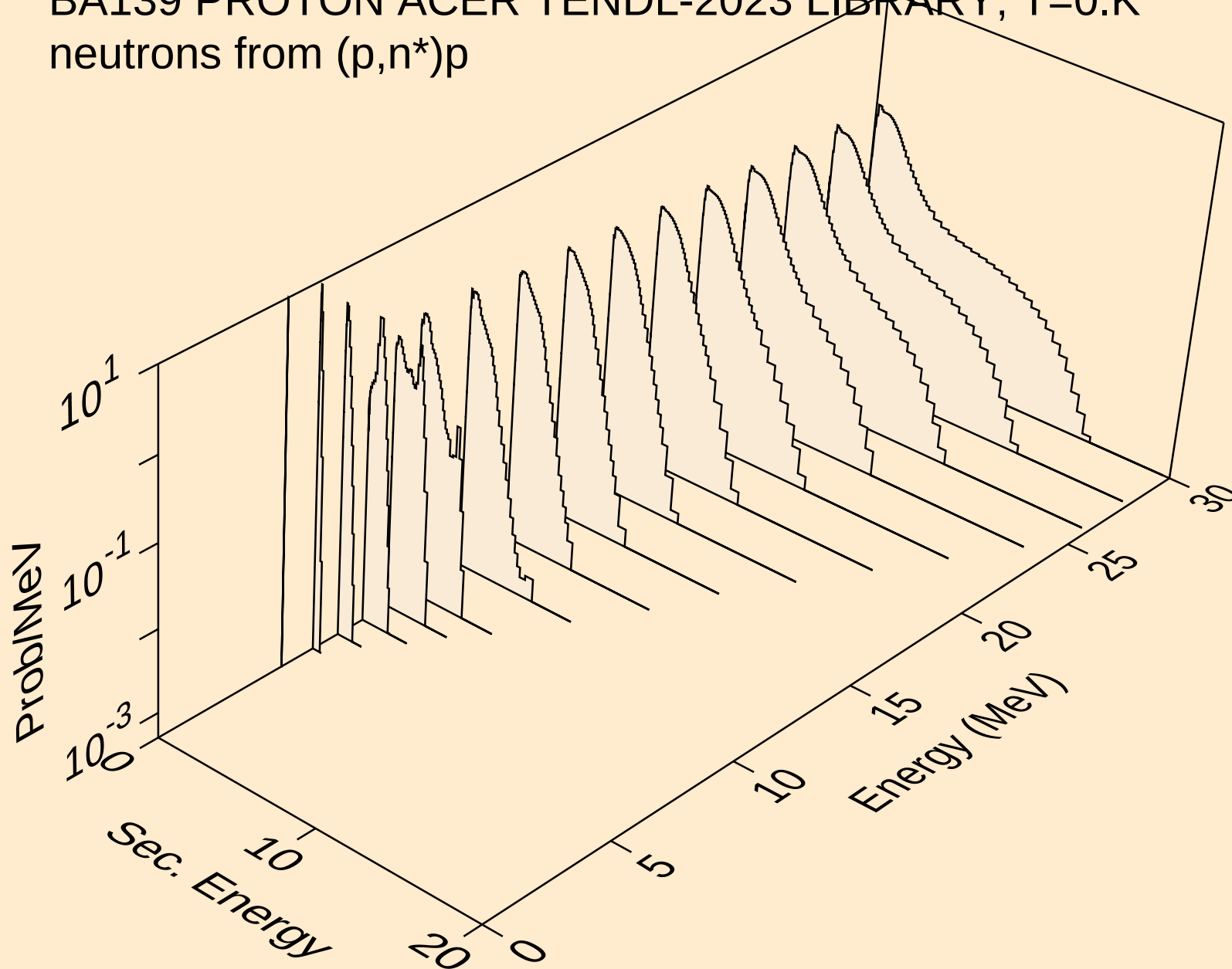
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neutrons from (p,2n)a



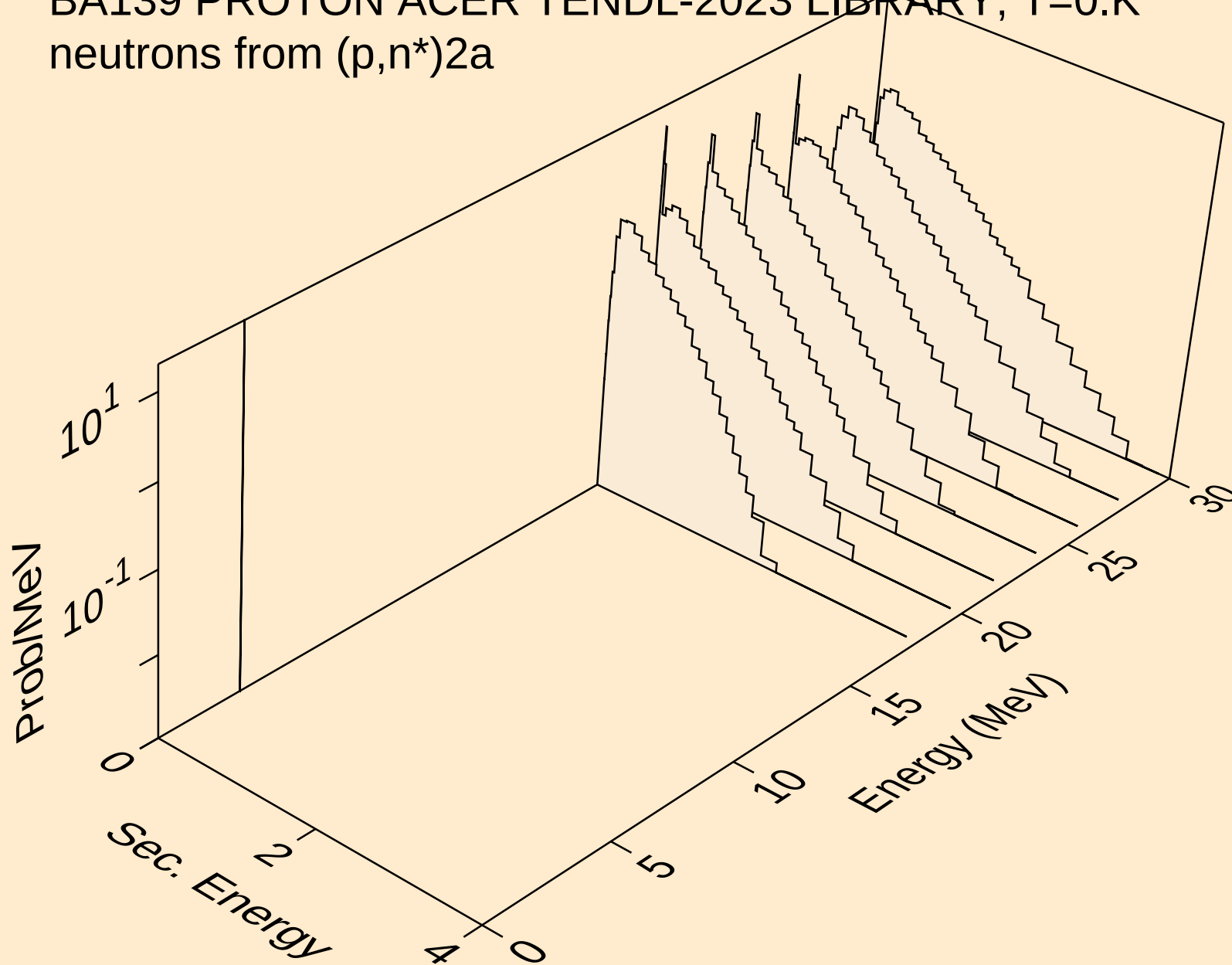
BA139 PROTON ACER TENDL-2023 LIBRARY; T=0.K
neutrons from (p,3n)a



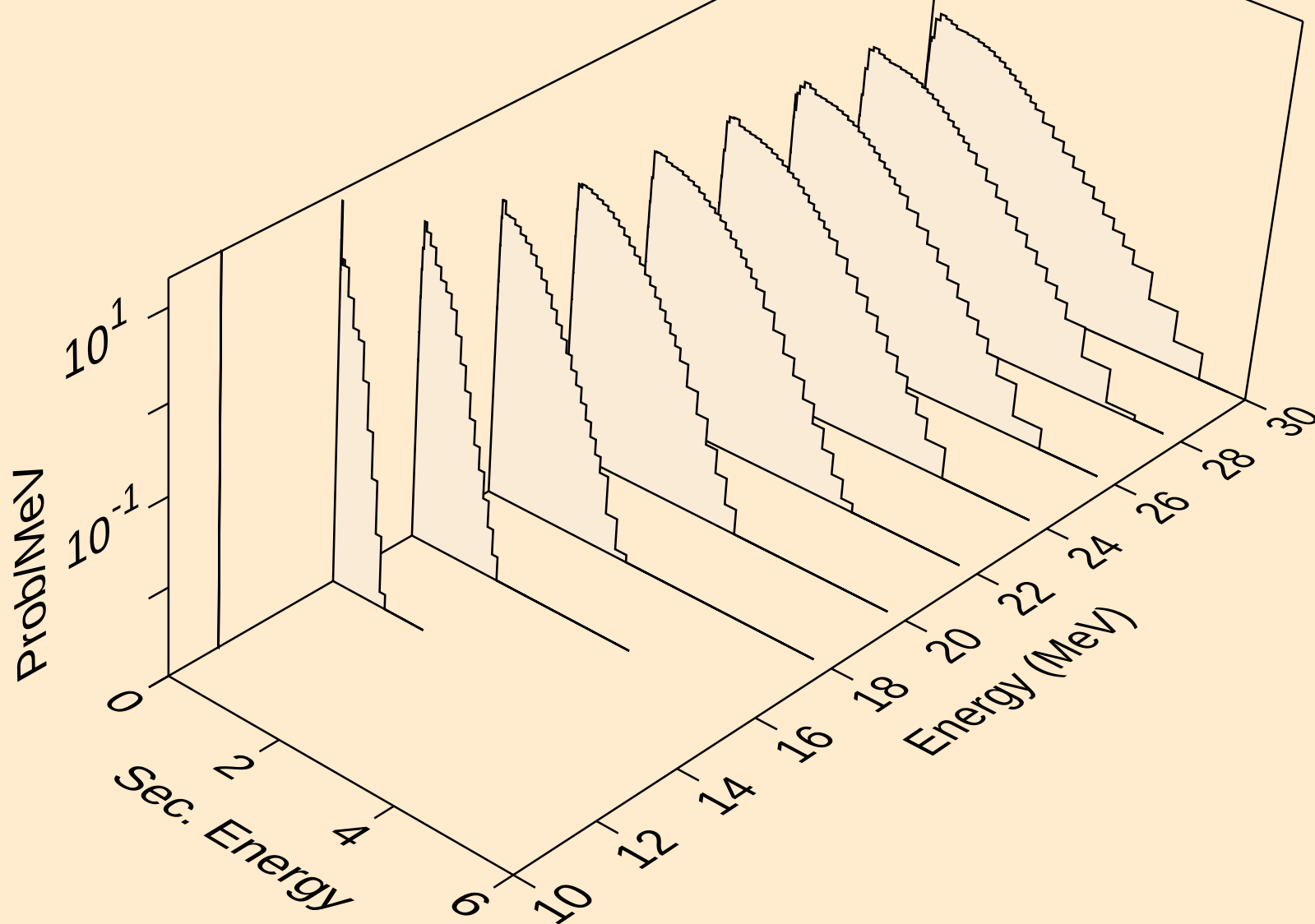
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neutrons from (p,n*)p



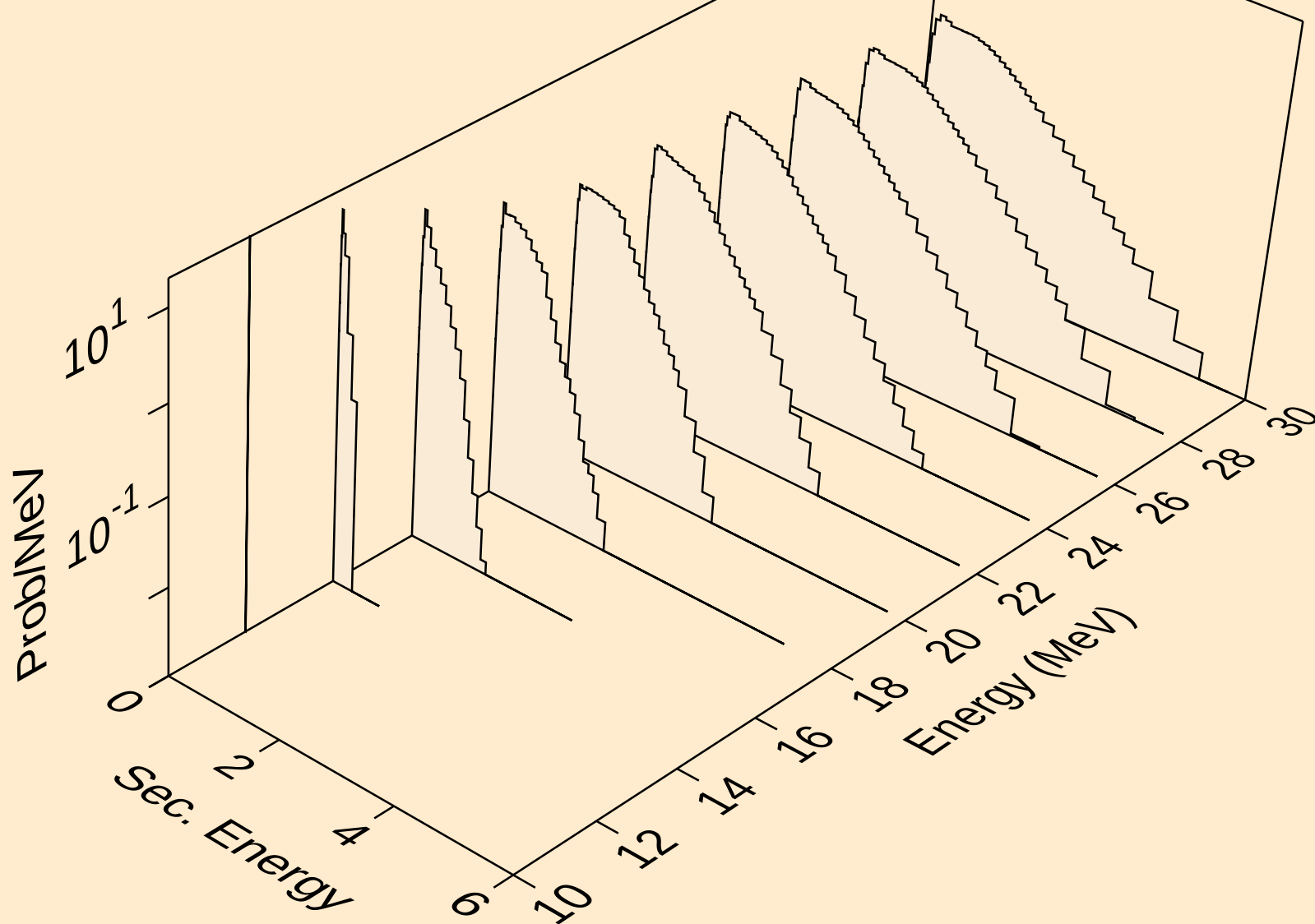
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neutrons from (p,n*)2a



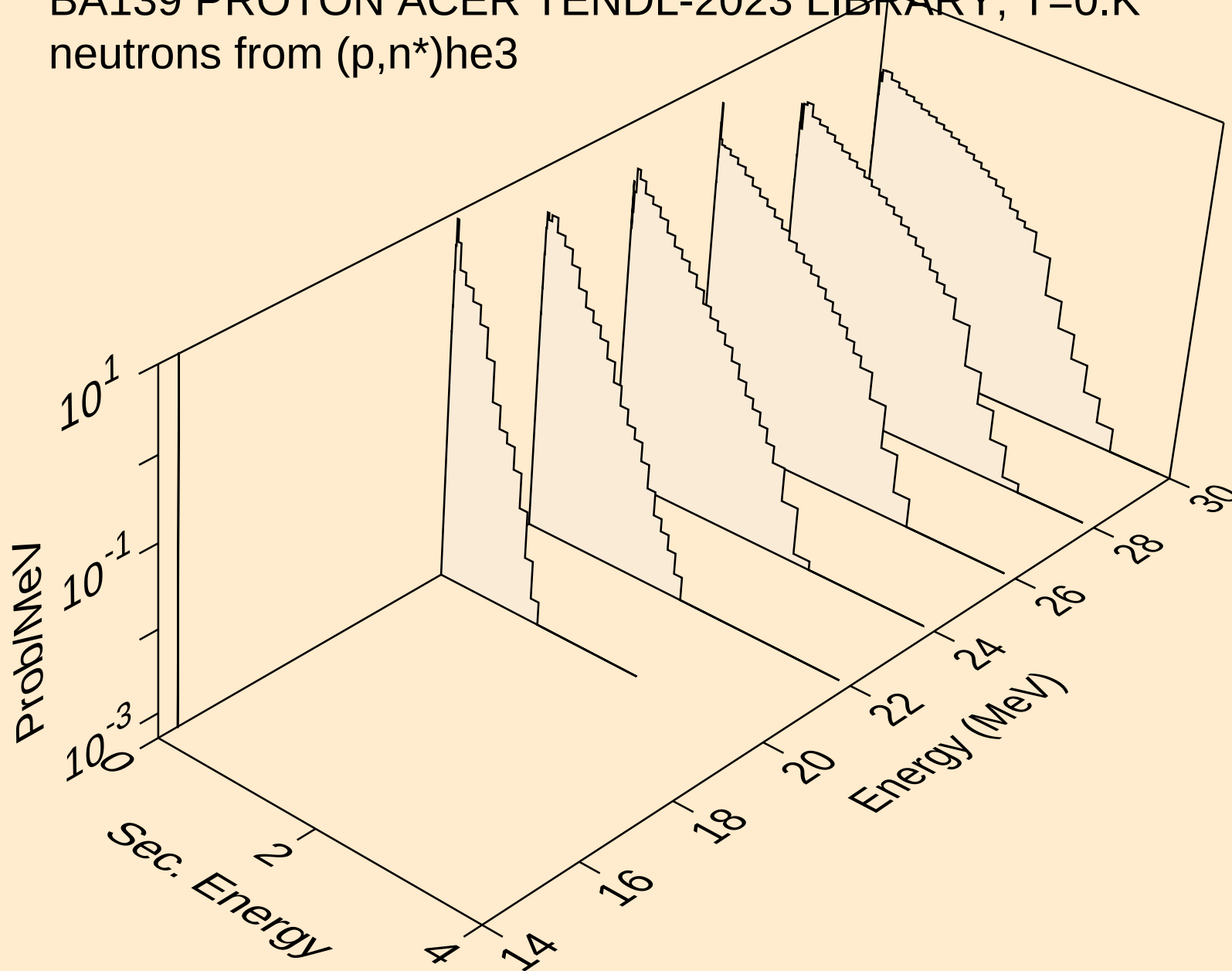
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neutrons from (p,n*)d



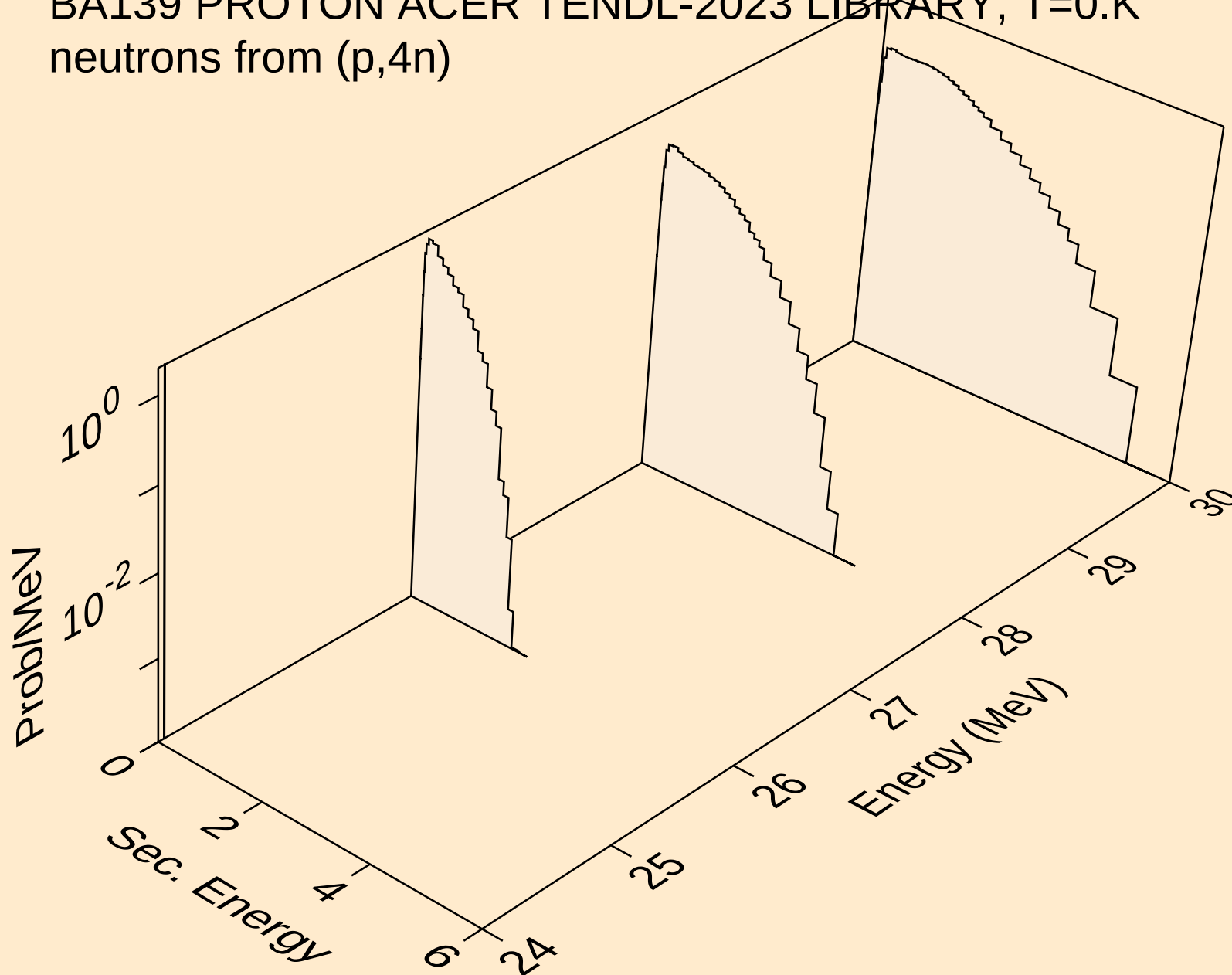
BA139 PROTON ACER TENDL-2023 LIBRARY; T=0.K
neutrons from (p,n*)t



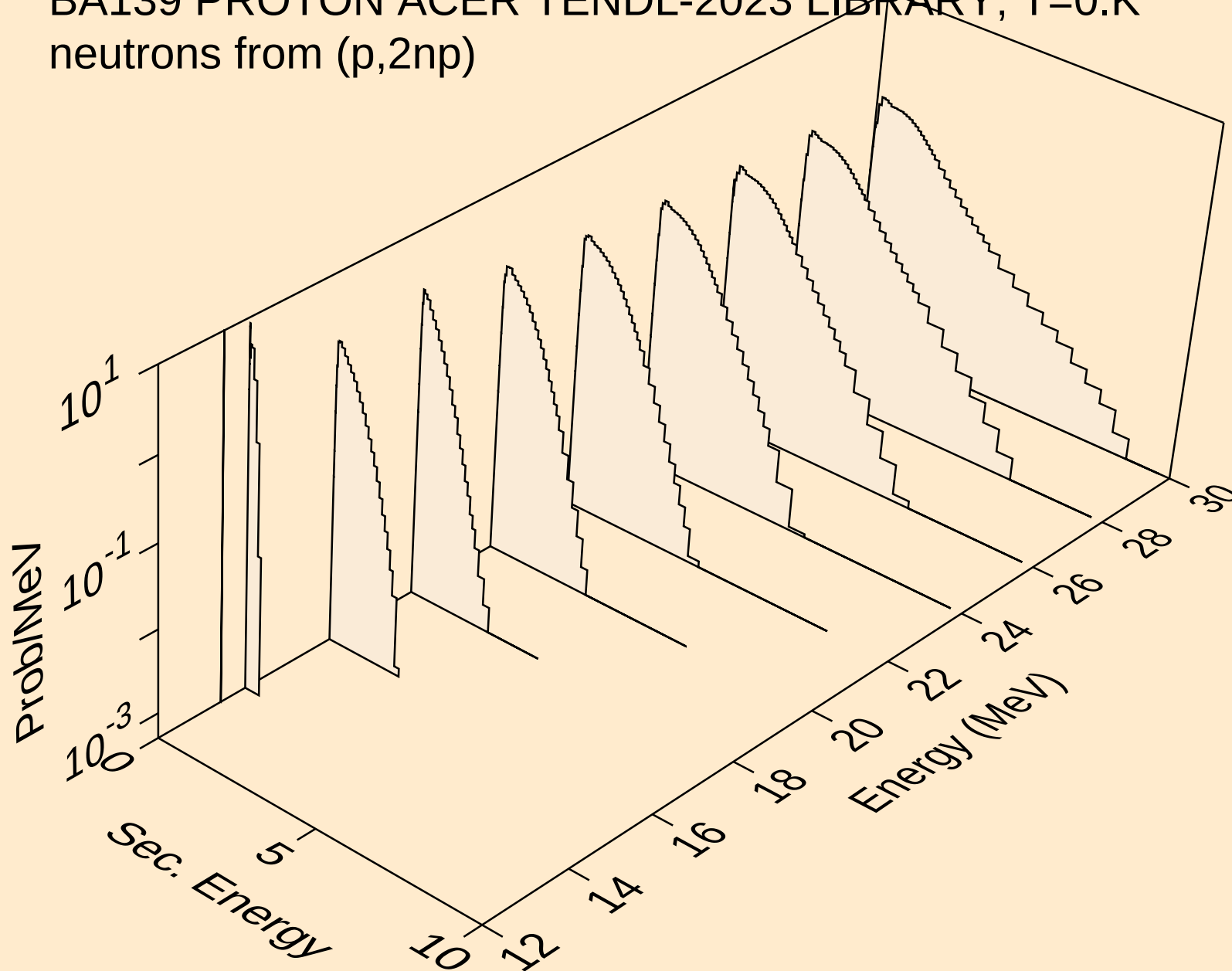
BA139 PROTON ACER TENDL-2023 LIBRARY; T=0.K
neutrons from (p,n*)he3



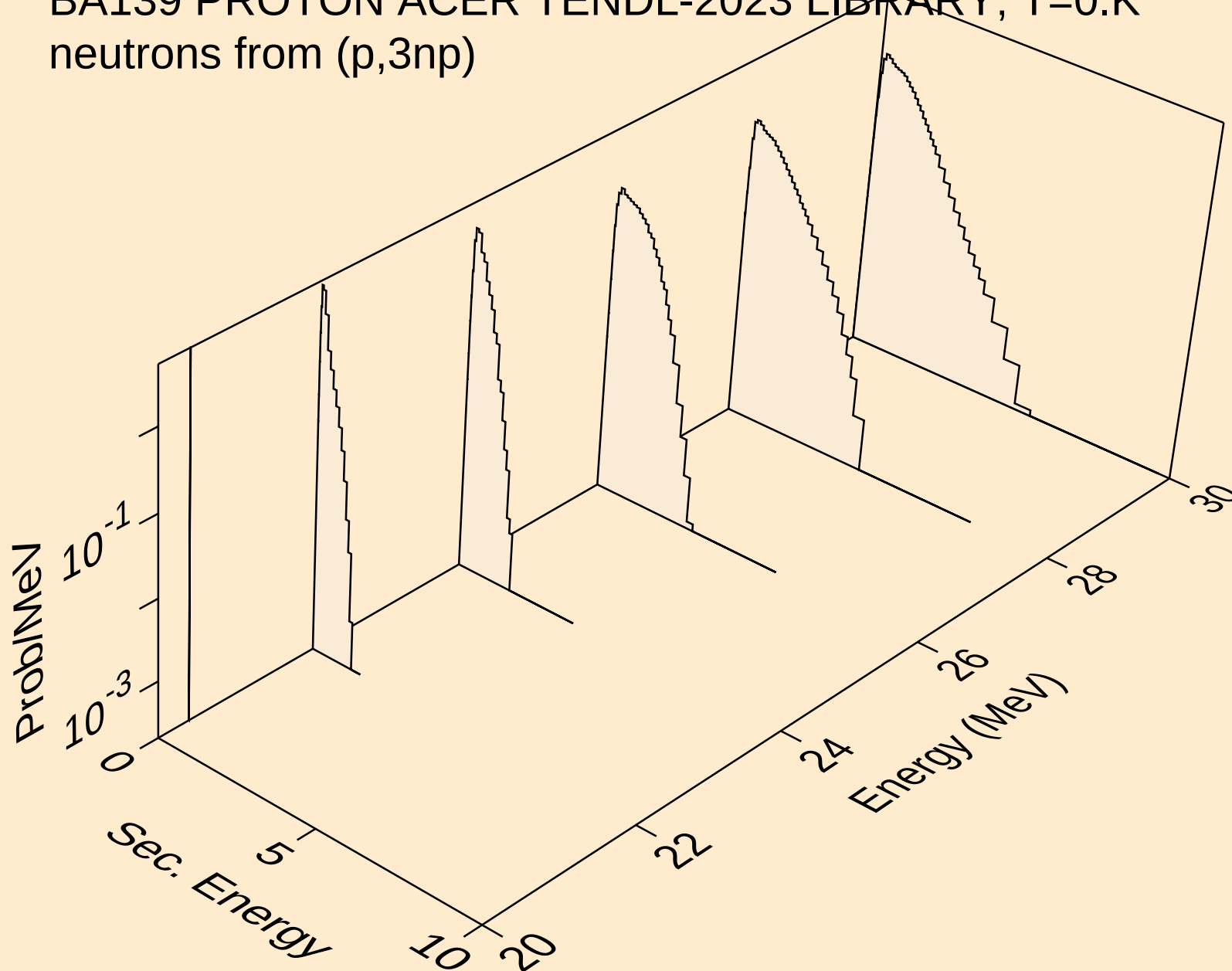
BA139 PROTON ACER TENDL-2023 LIBRARY; T=0.K
neutrons from (p,4n)



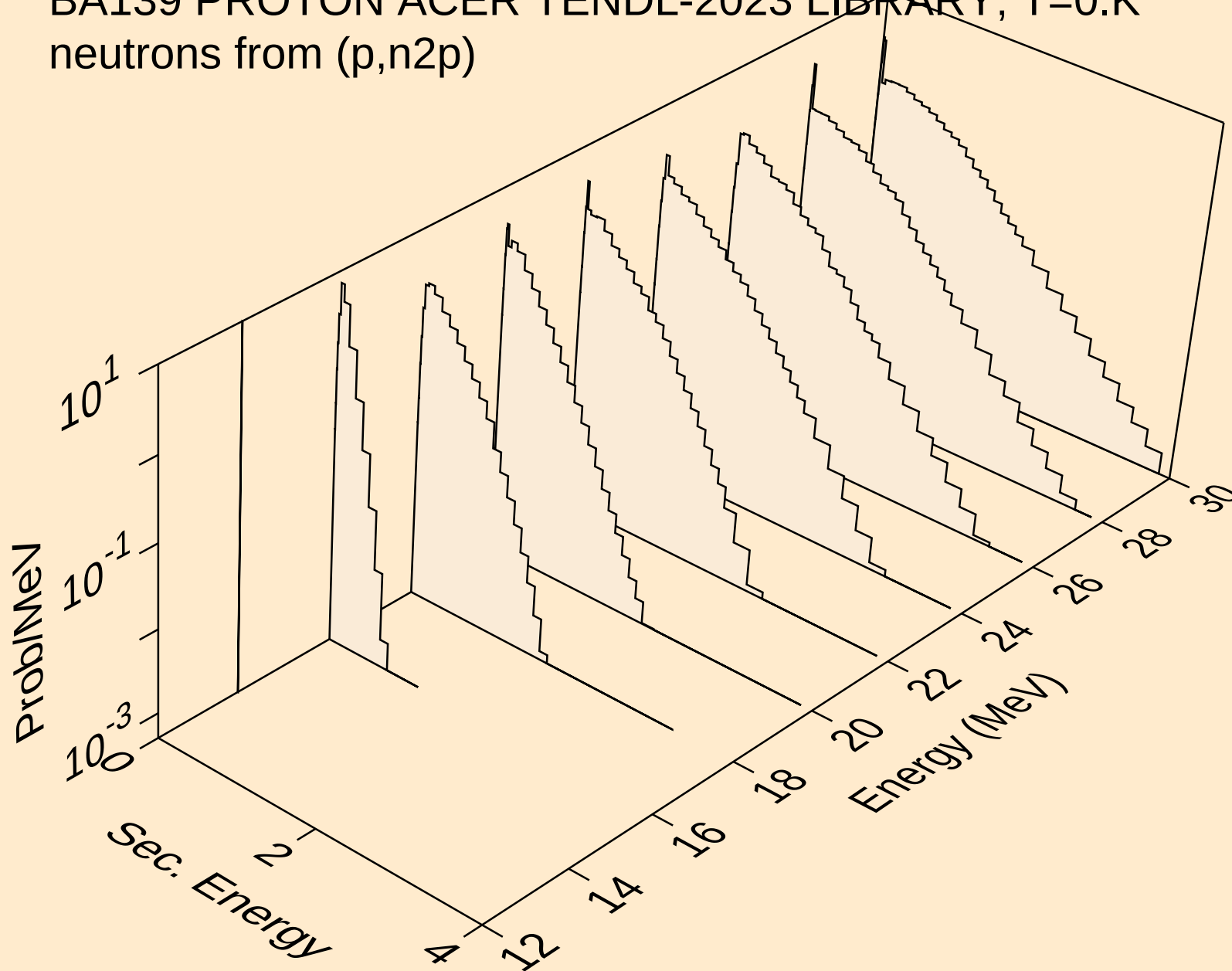
BA139 PROTON ACER TENDL-2023 LIBRARY; $T=0.K$
neutrons from (p,2np)



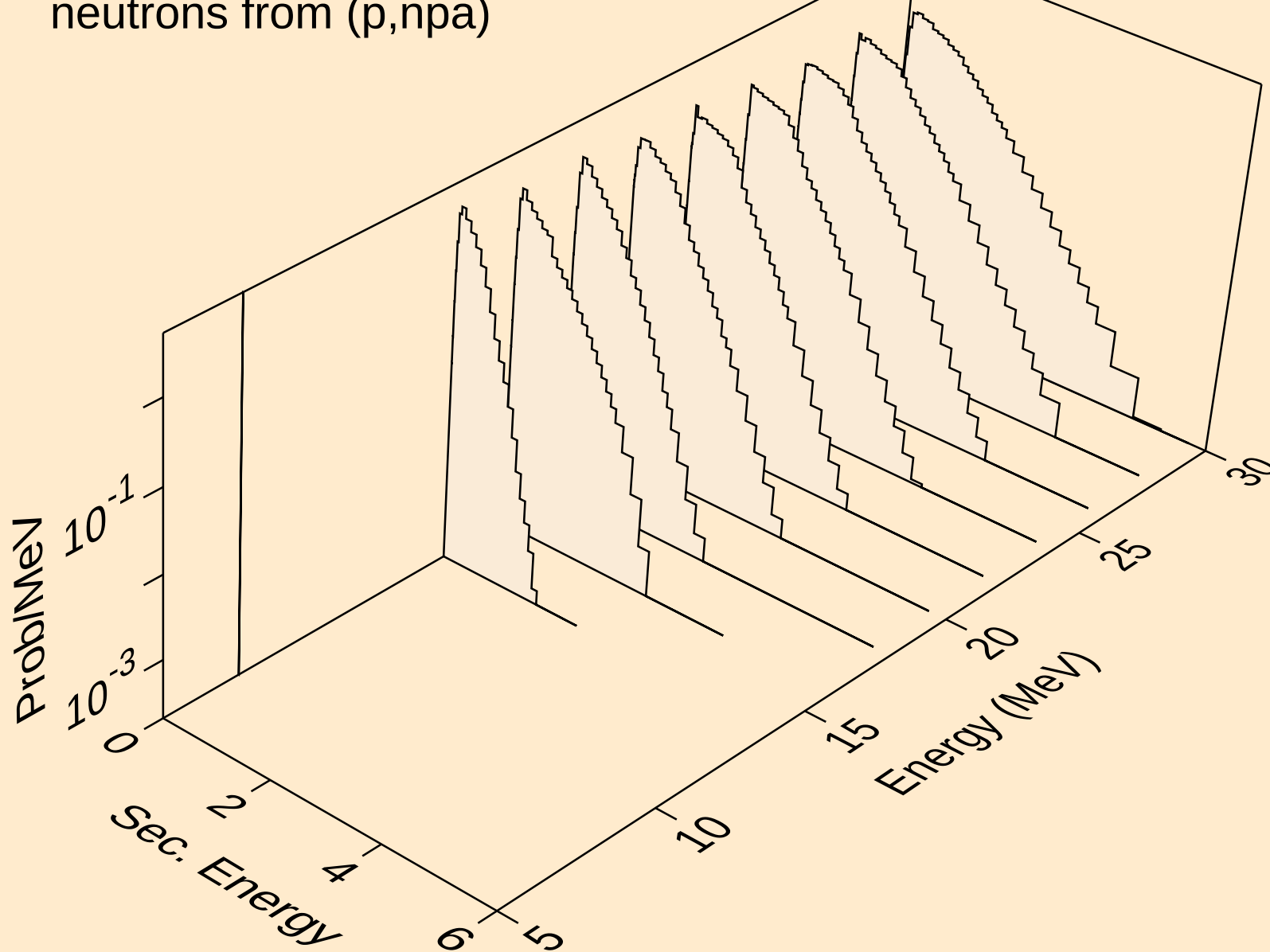
BA139 PROTON ACER TENDL-2023 LIBRARY; T=0.K
neutrons from (p,3np)



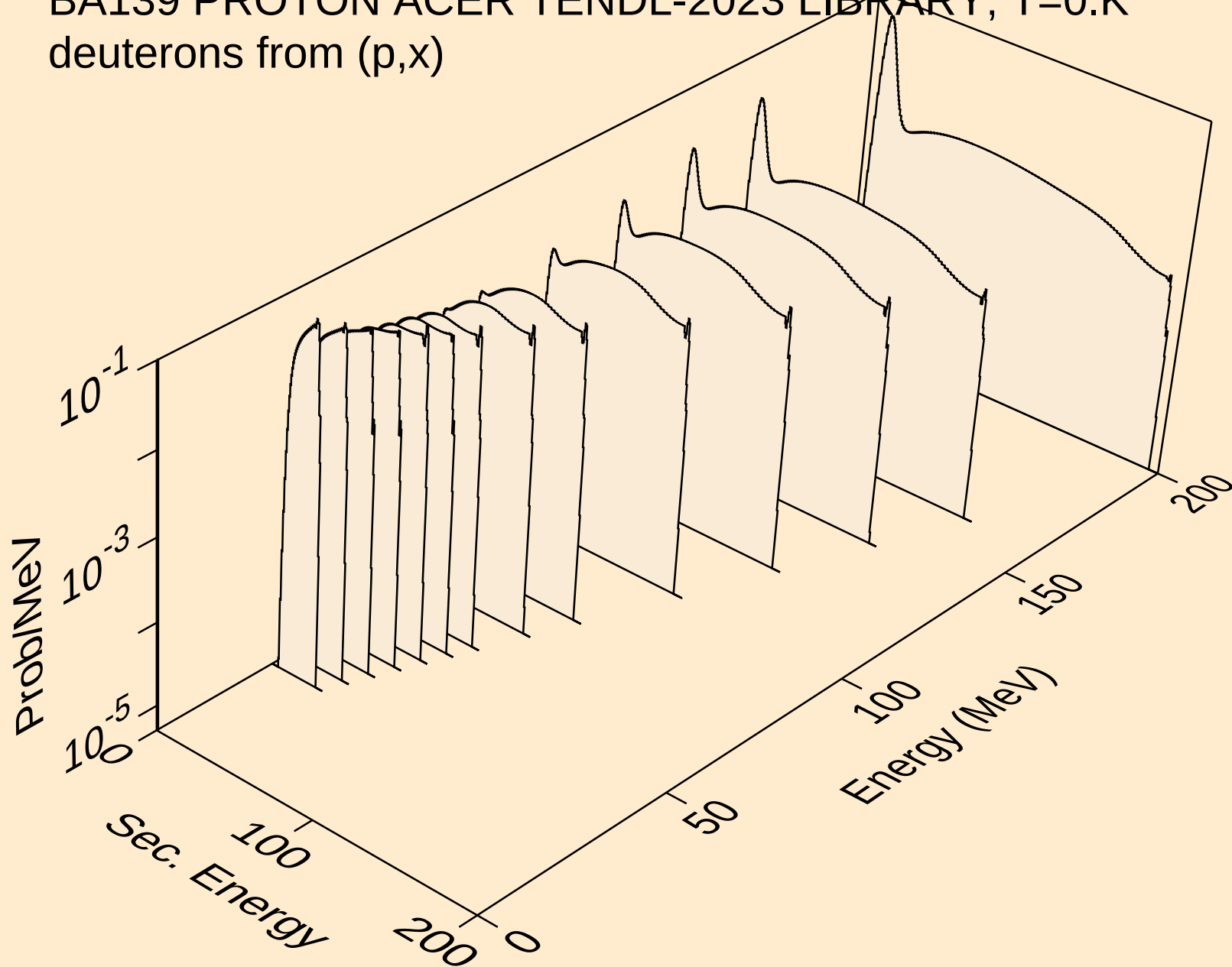
BA139 PROTON ACER TENDL-2023 LIBRARY; T=0.K
neutrons from (p,n2p)



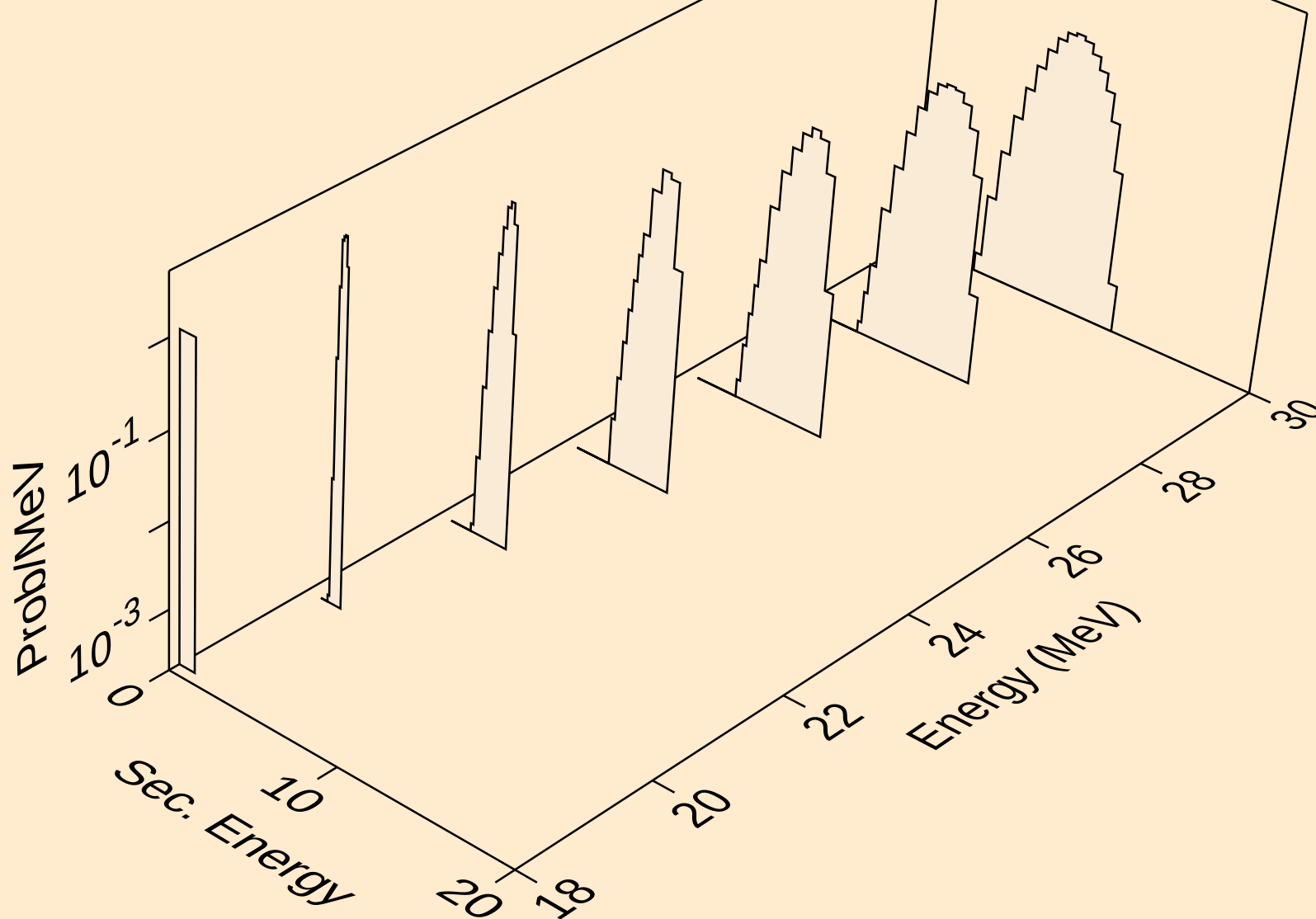
BA139 PROTON ACER TENDL-2023 LIBRARY; T=0.K
neutrons from (p,npa)



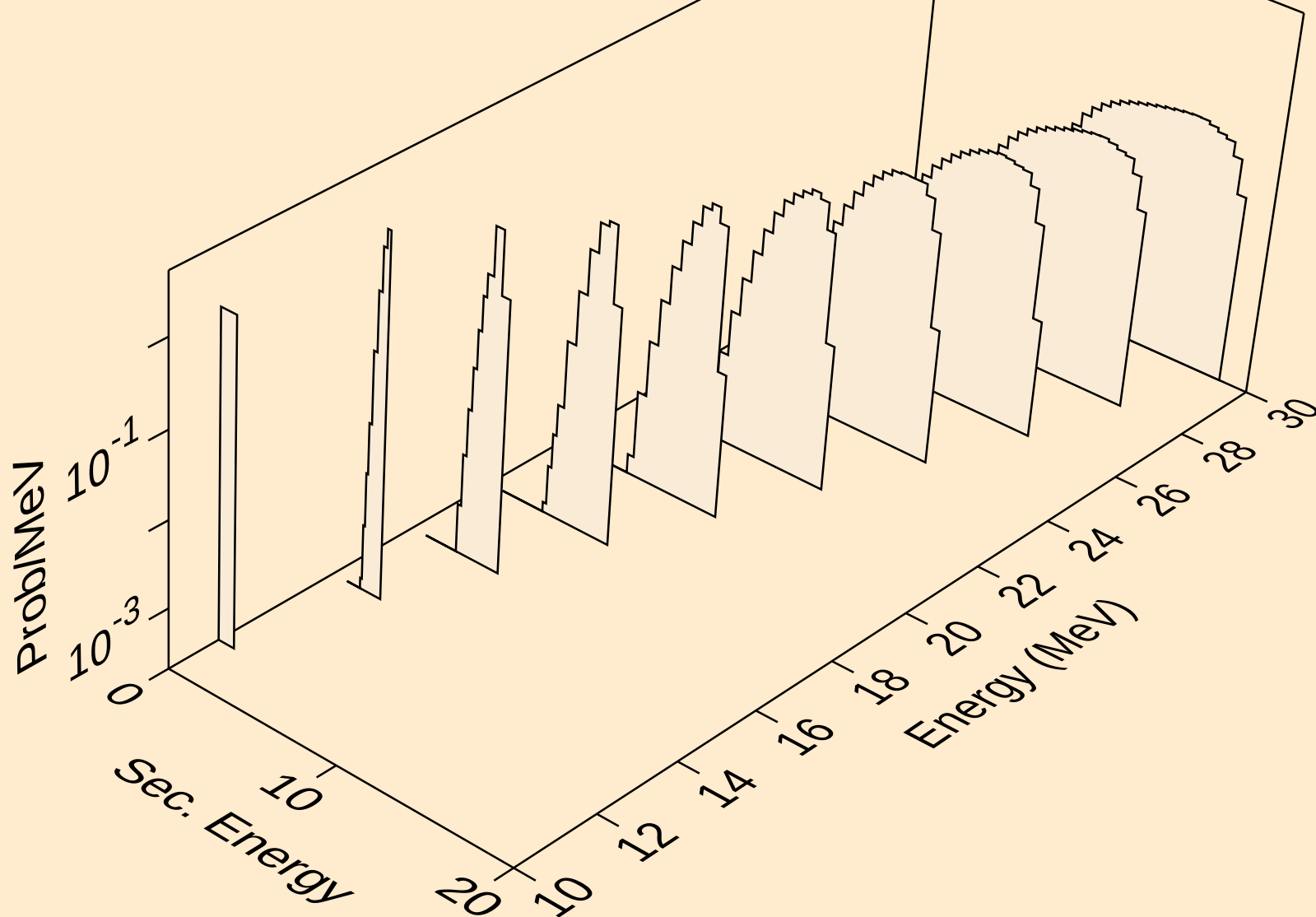
BA139 PROTON ACER TENDL-2023 LIBRARY; T=0.K
deuterons from (p,x)



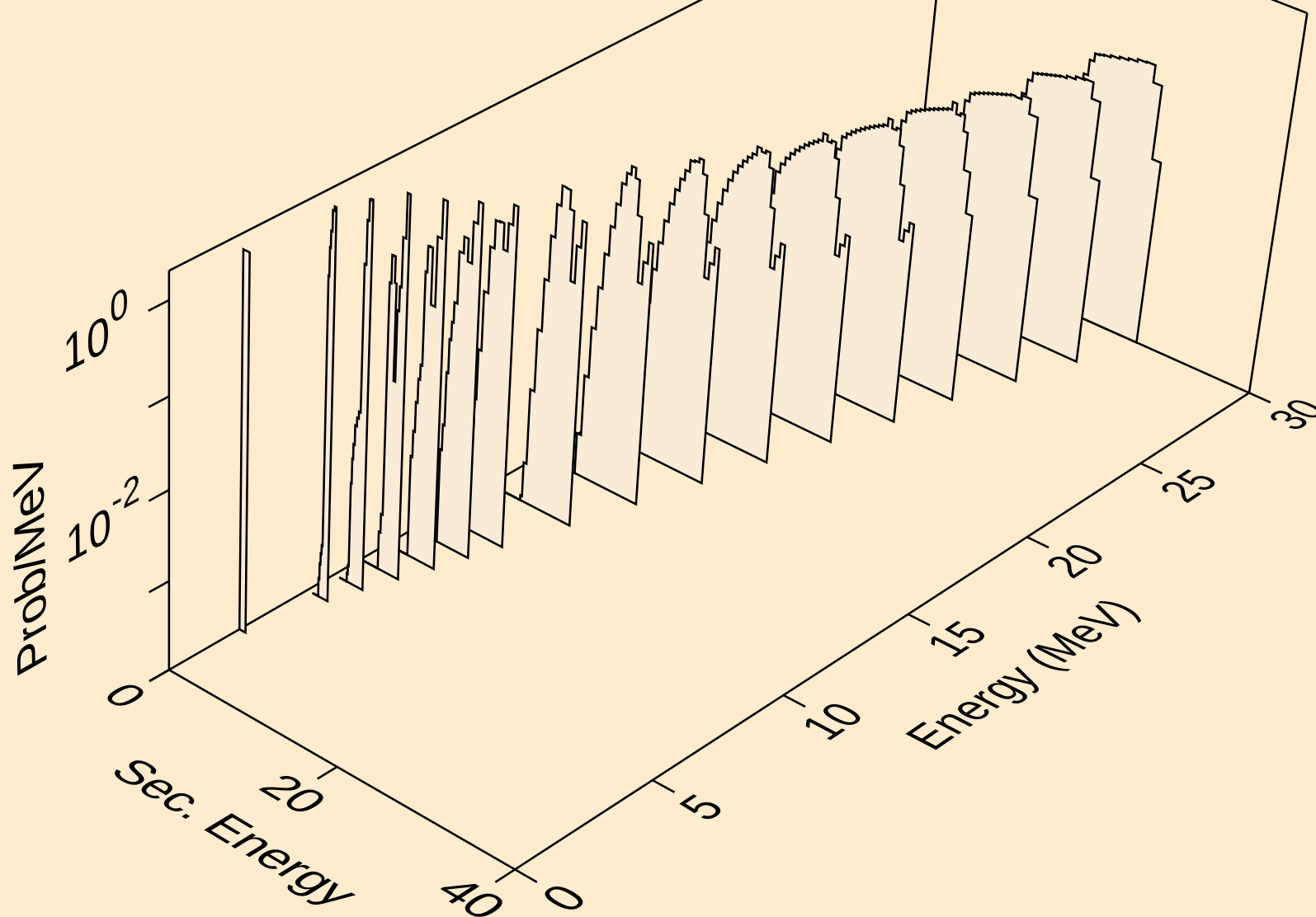
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deuterons from (p,2nd)



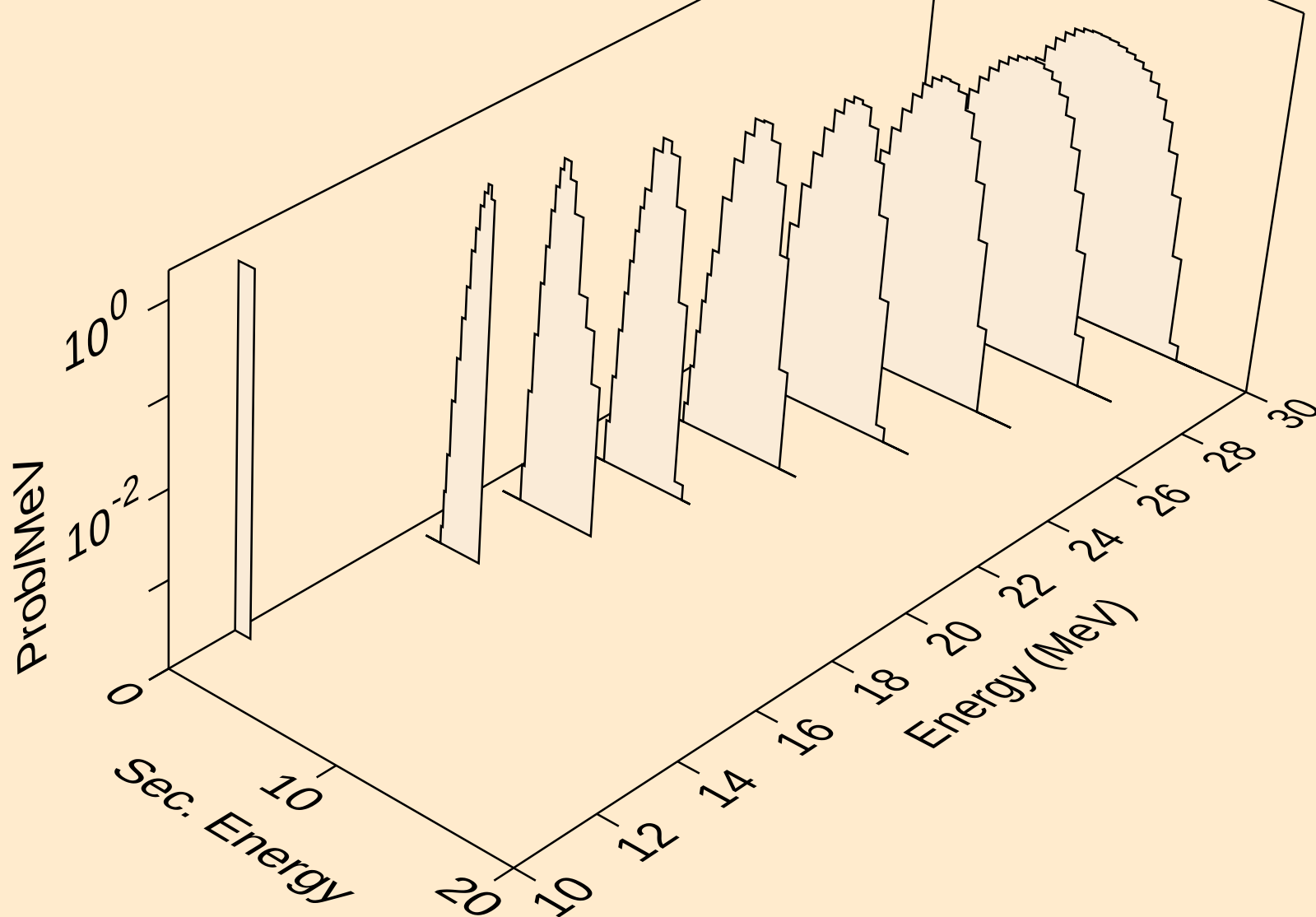
BA139 PROTON ACER TENDL-2023 LIBRARY; T=0.K
deuterons from (p,n*)d



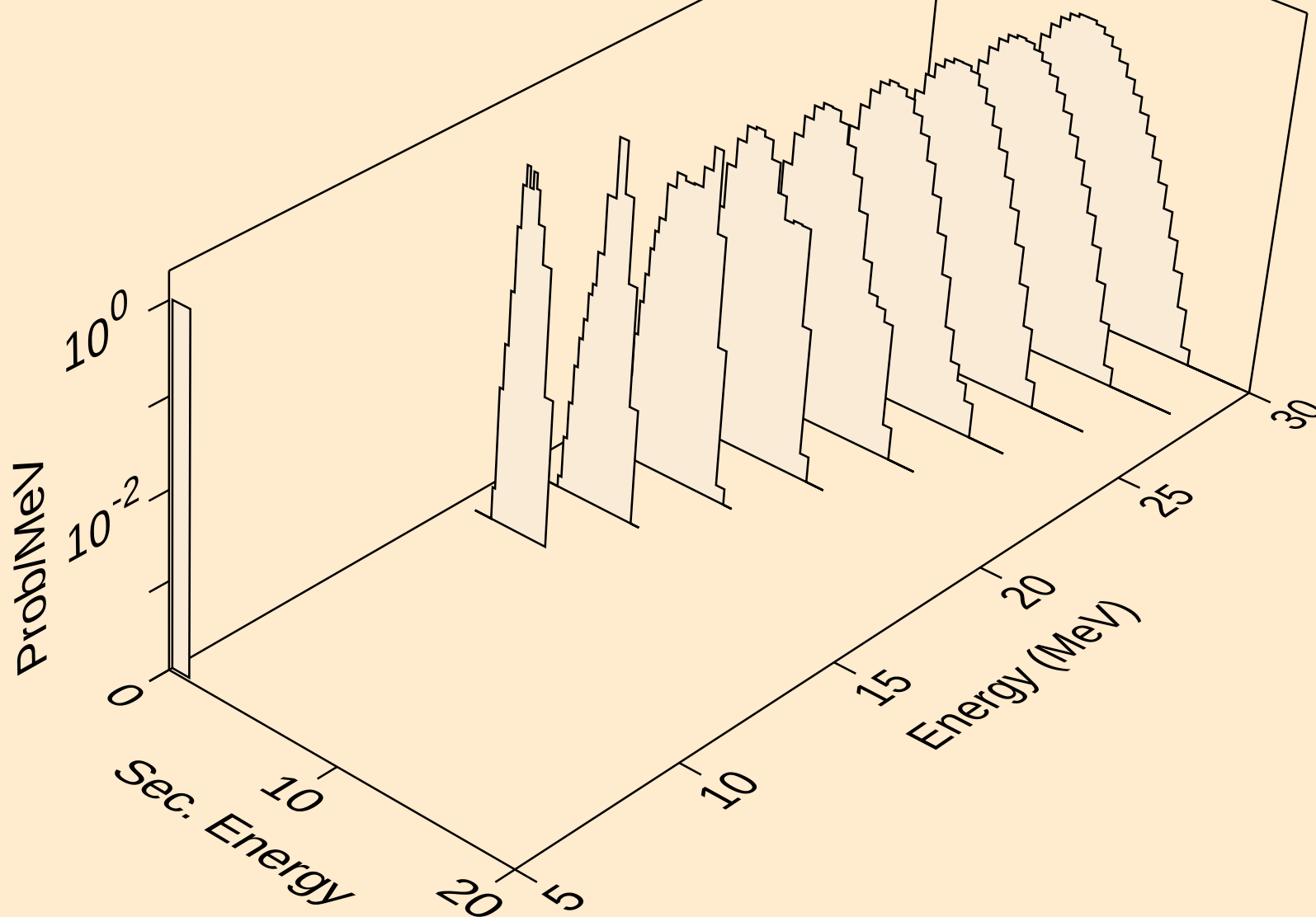
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deuterons from (p,d)



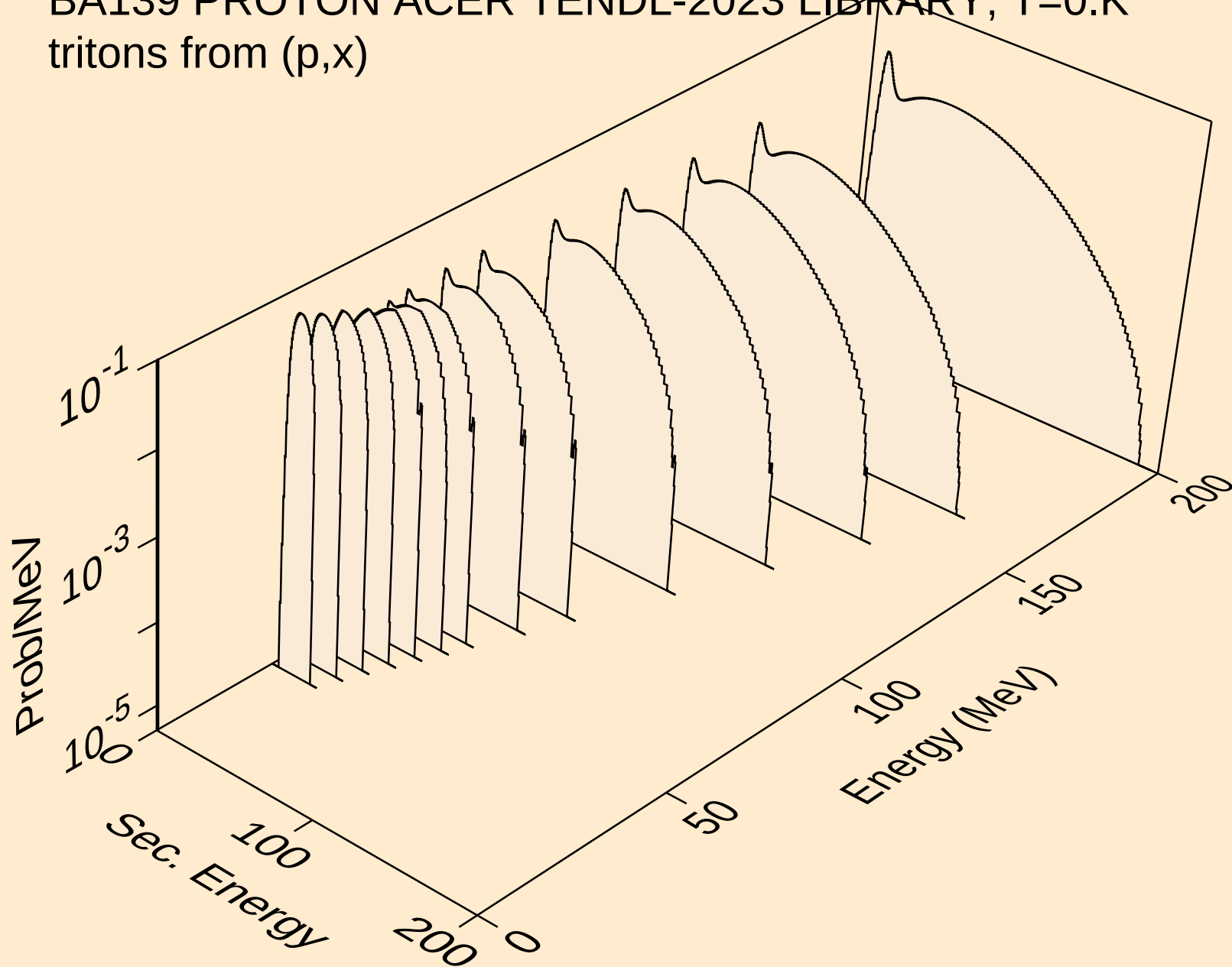
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deuterons from (p,pd)



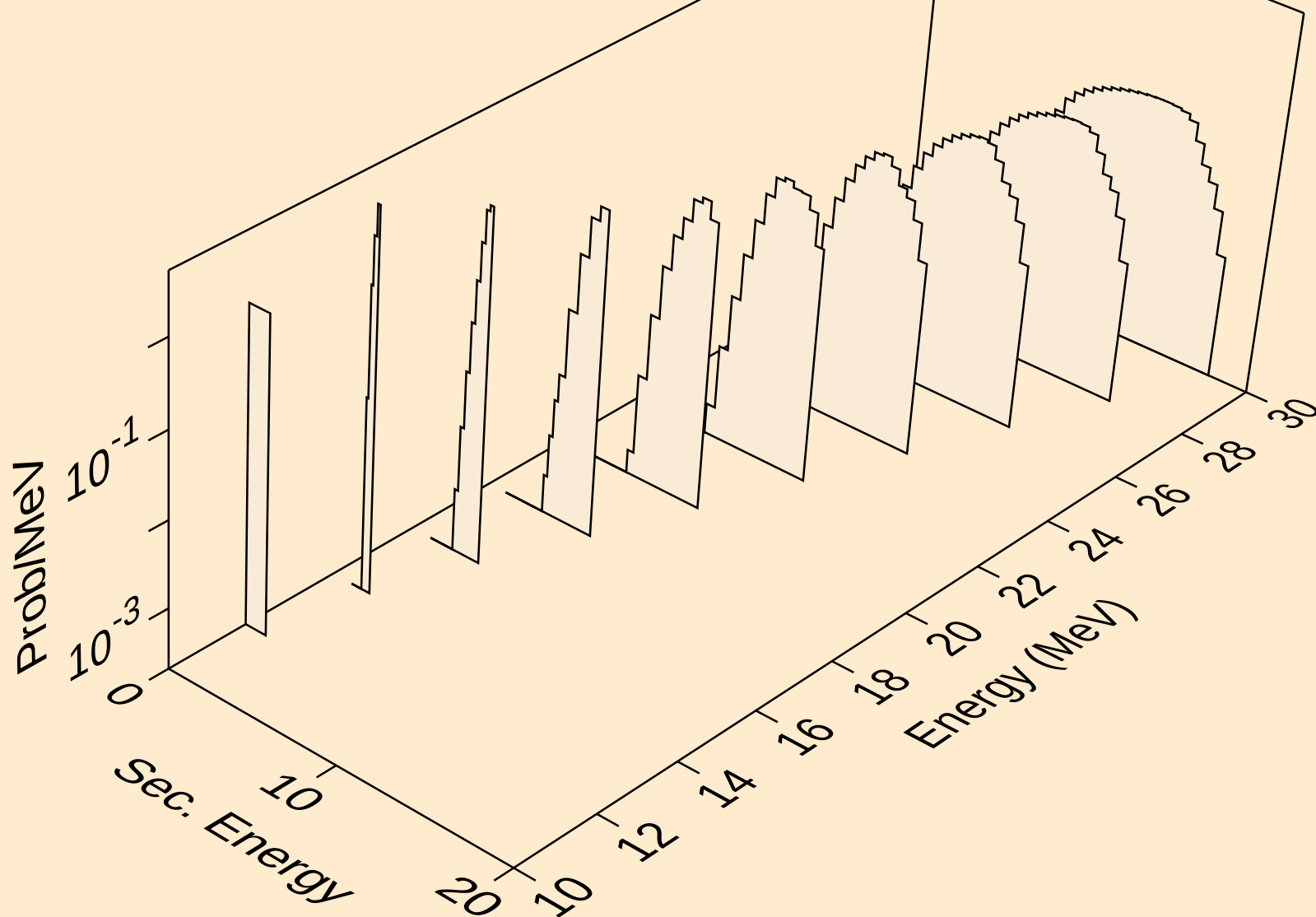
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deuterons from (p,da)



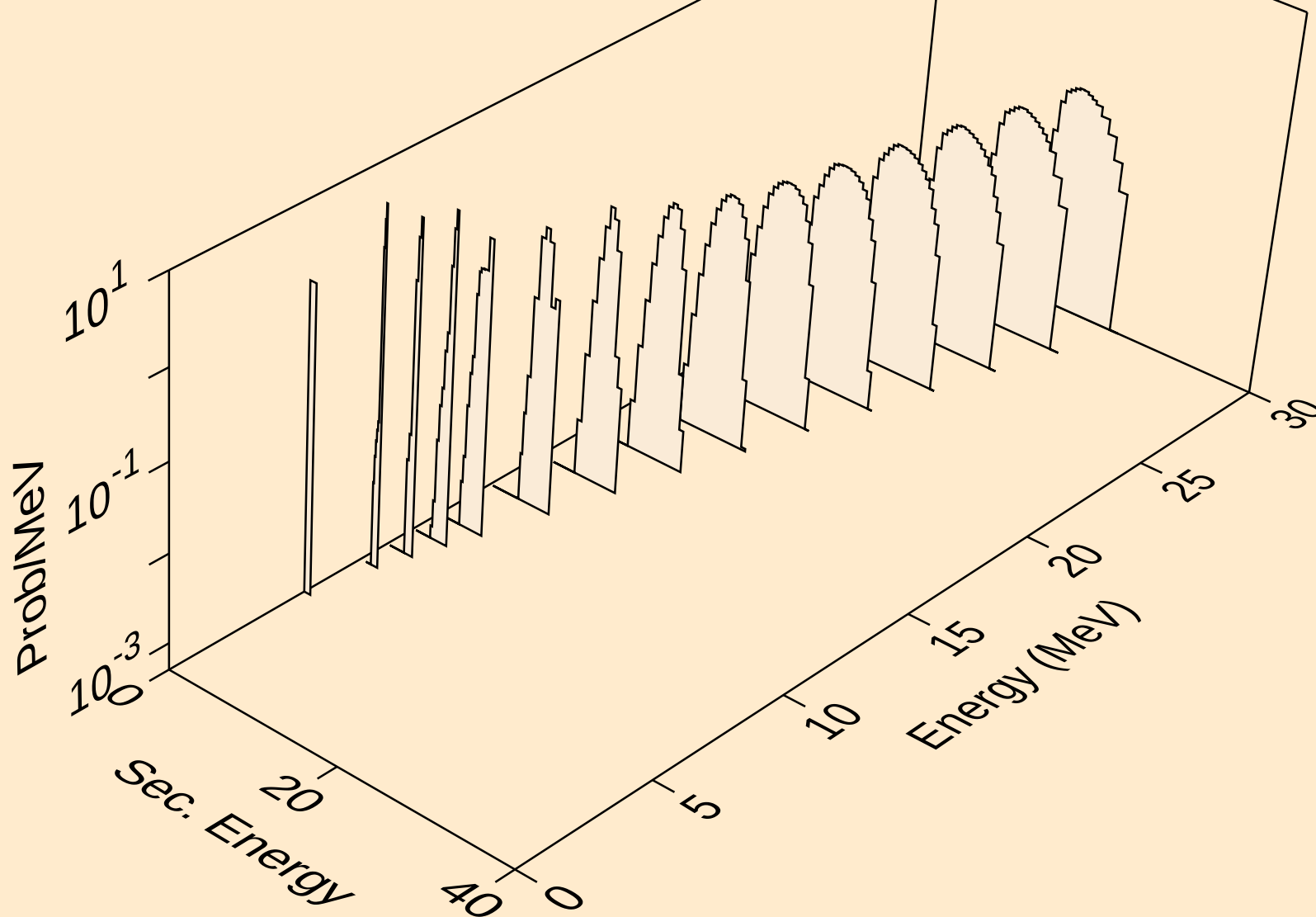
BA139 PROTON ACER TENDL-2023 LIBRARY; T=0.K
tritons from (p,x)



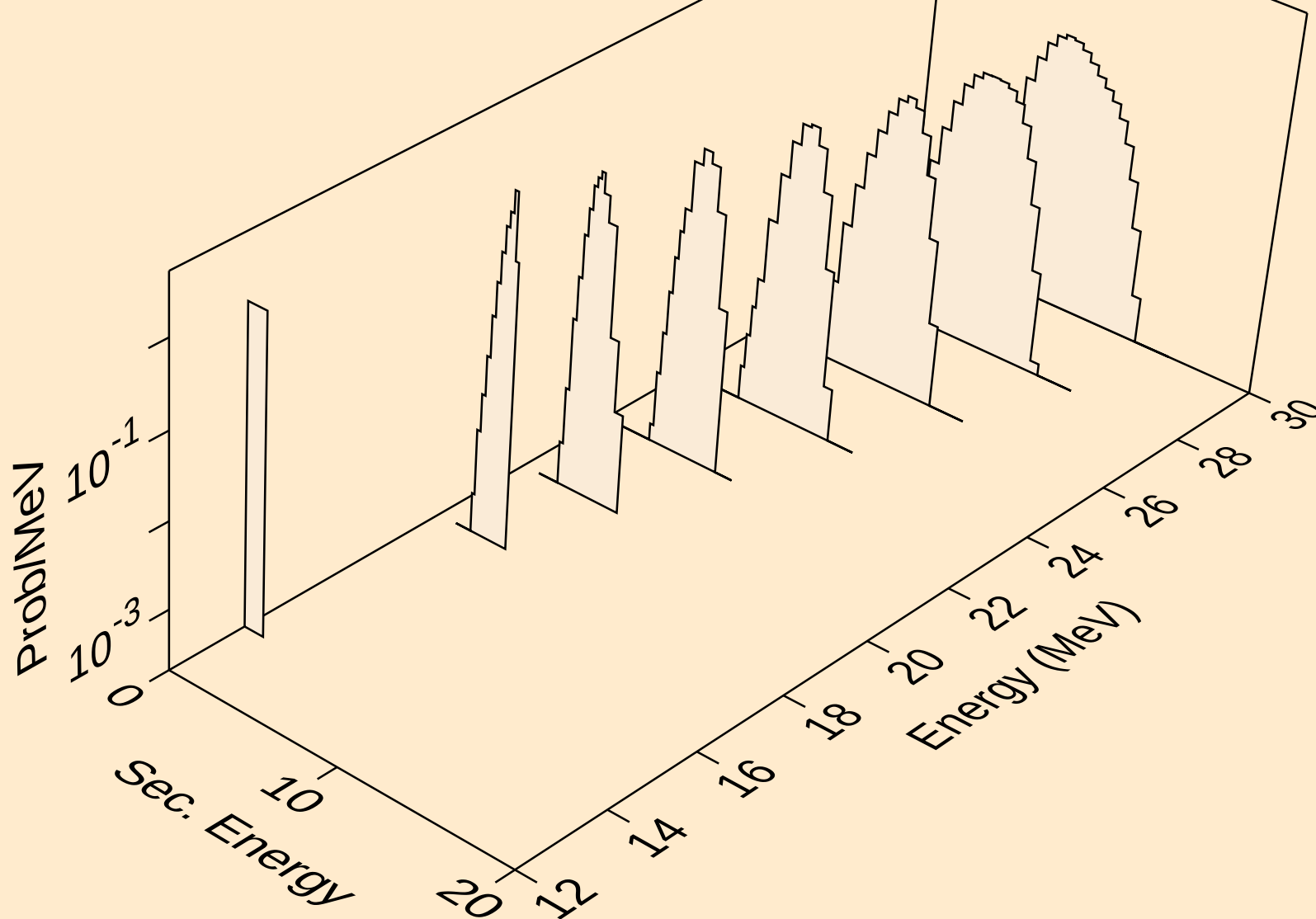
BA139 PROTON ACER TENDL-2023 LIBRARY; T=0.K
tritons from (p,n*)t



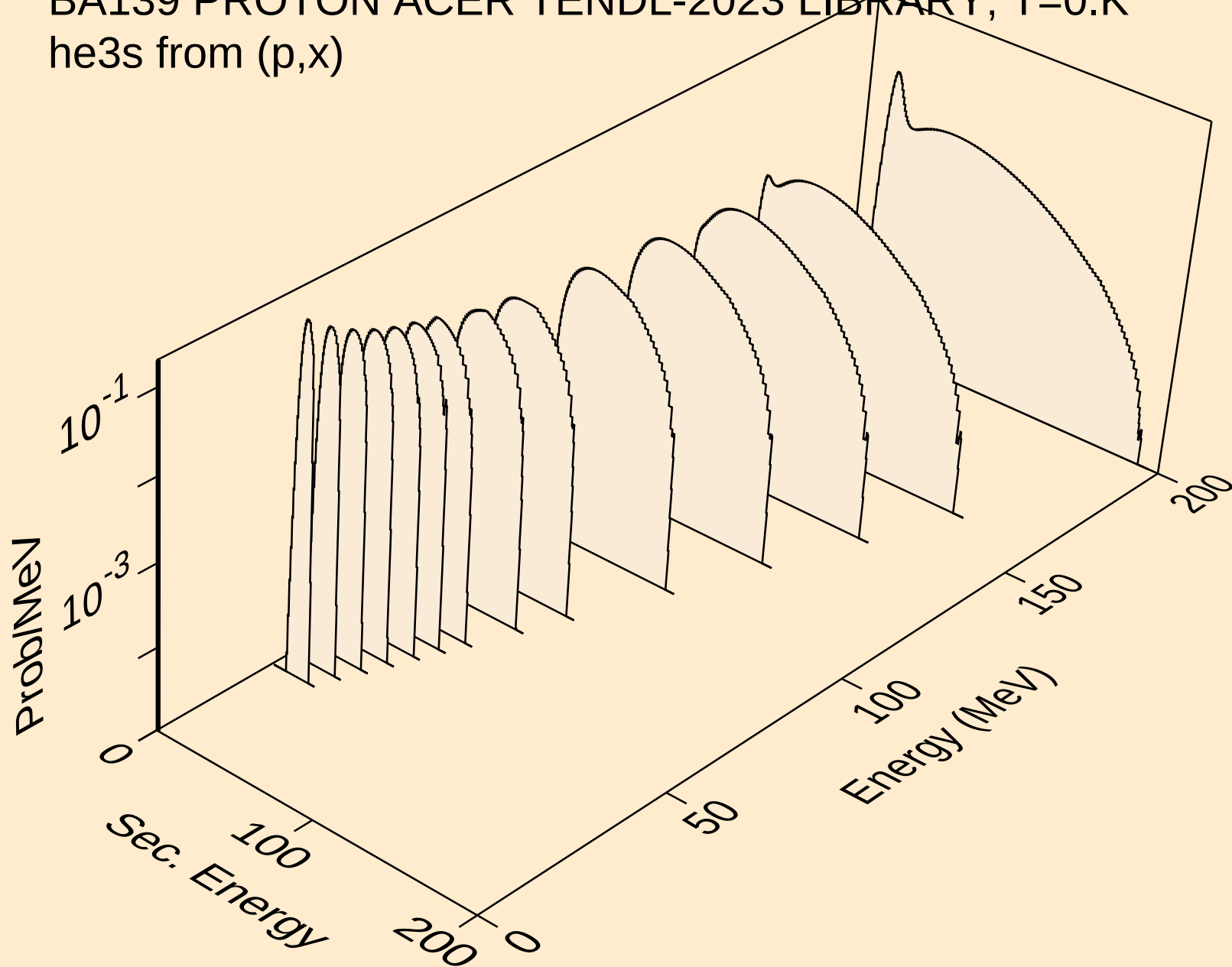
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tritons from (p,t)



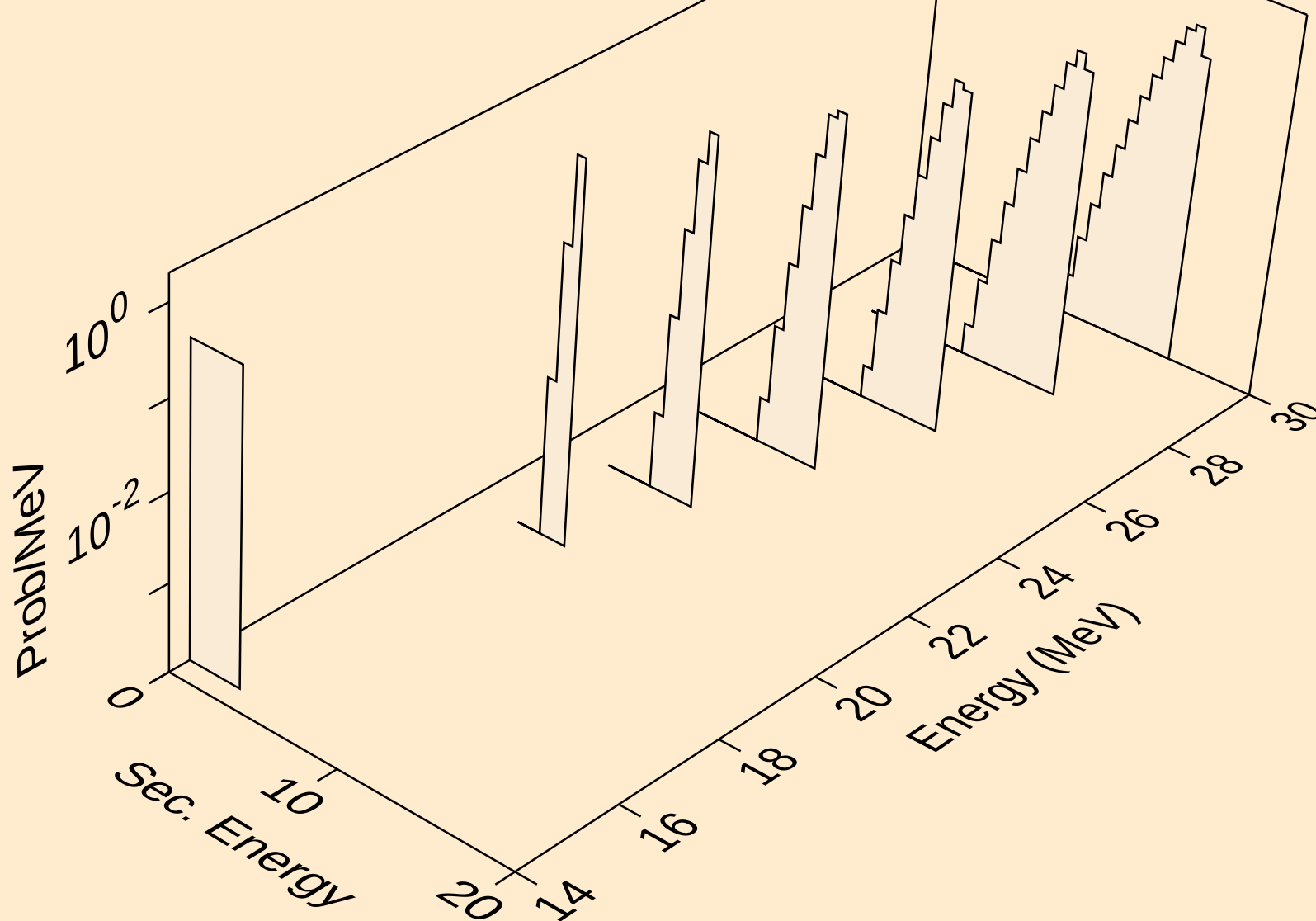
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tritons from (p,pt)



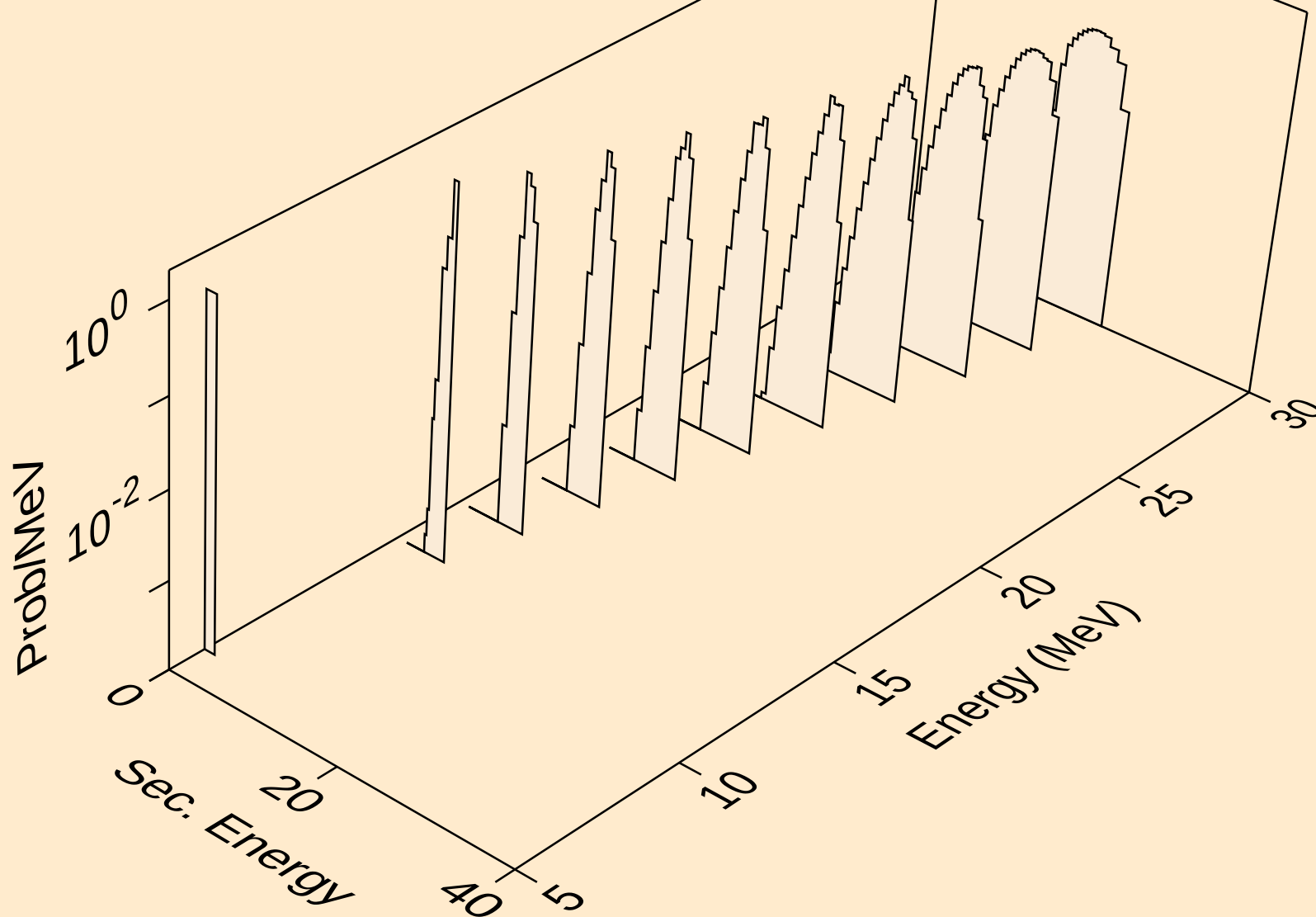
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he3s from (p,x)



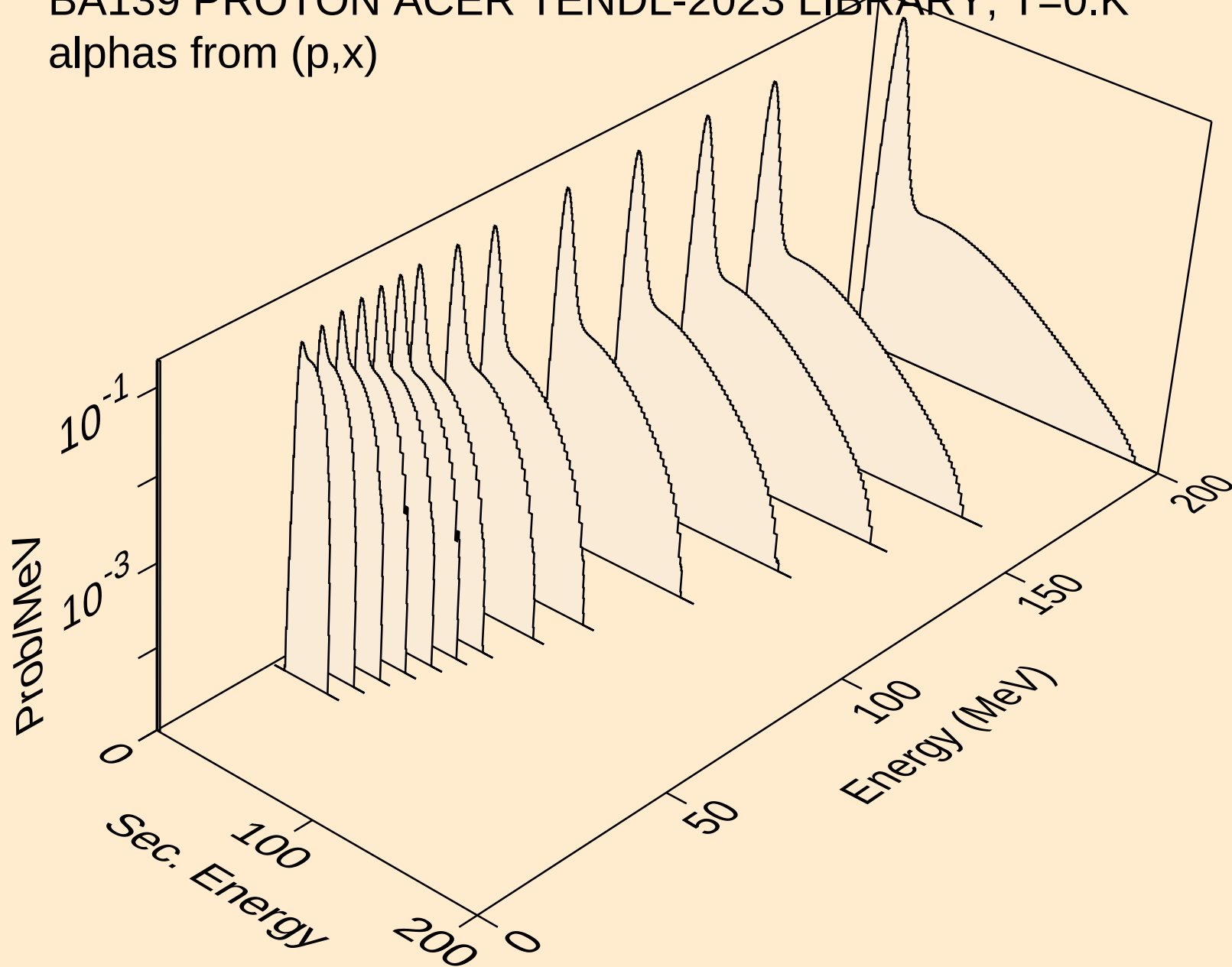
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he3s from (p,n*)he3



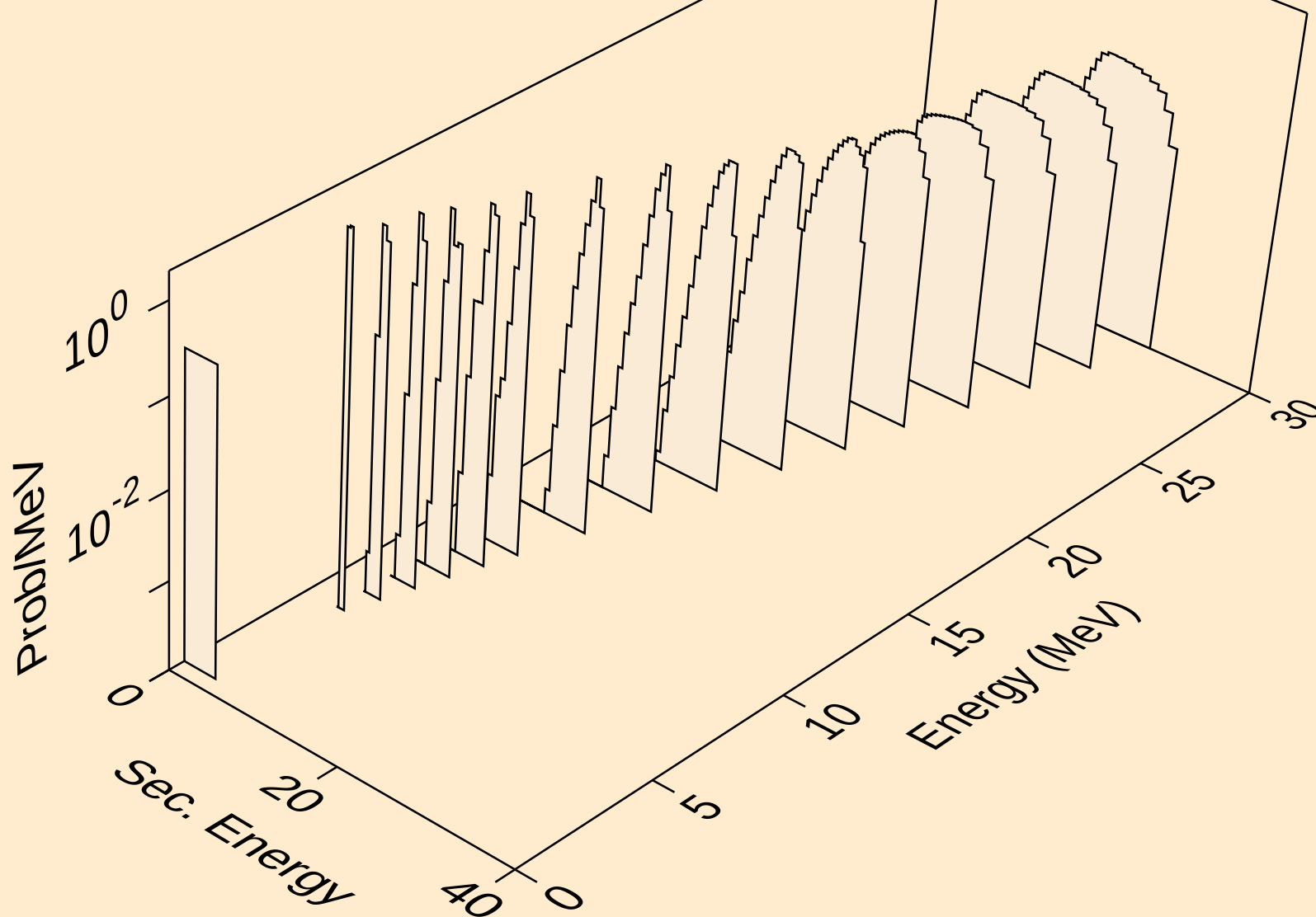
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he3s from (p,he3)



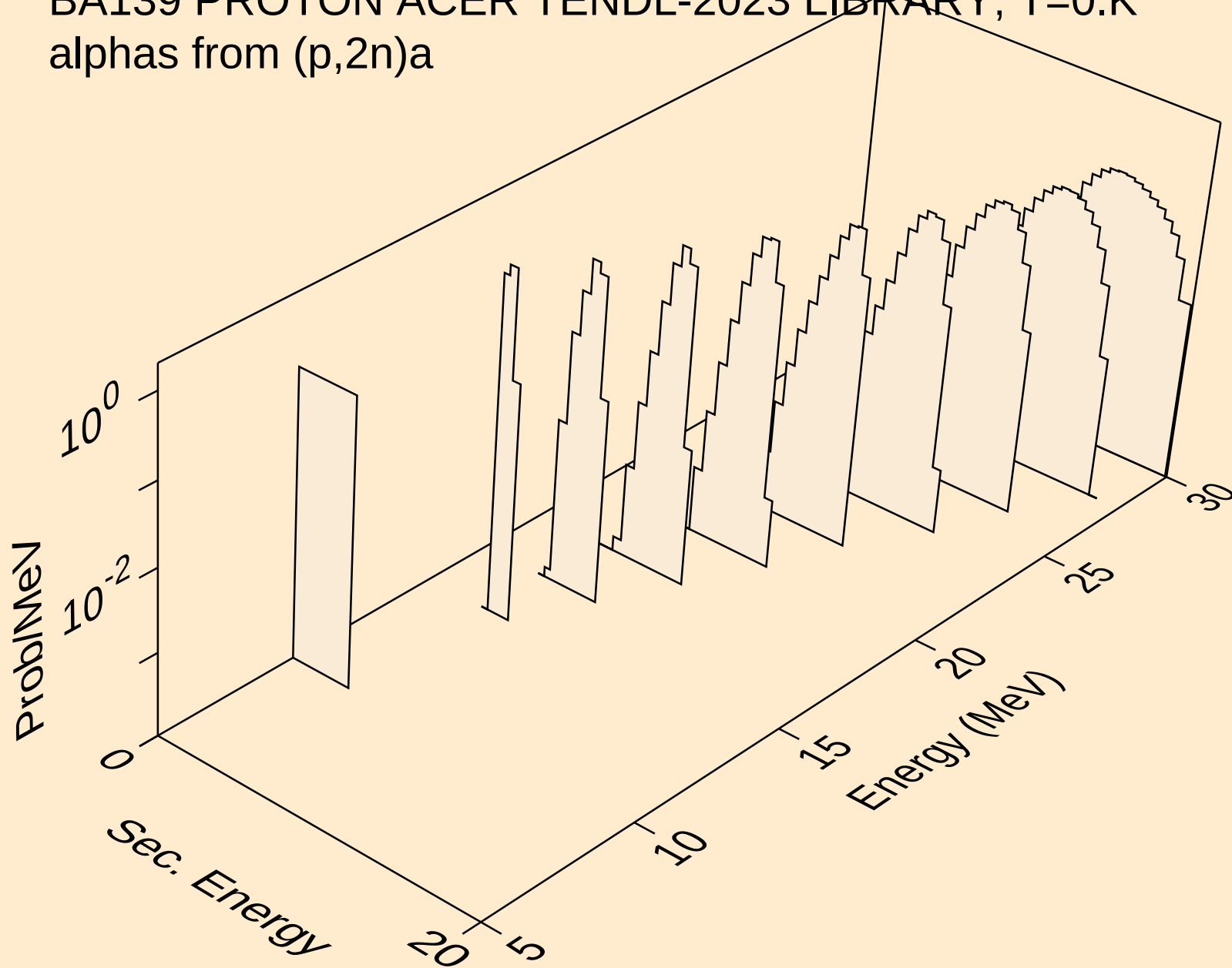
BA139 PROTON ACER TENDL-2023 LIBRARY; T=0.K
alphas from (p,x)



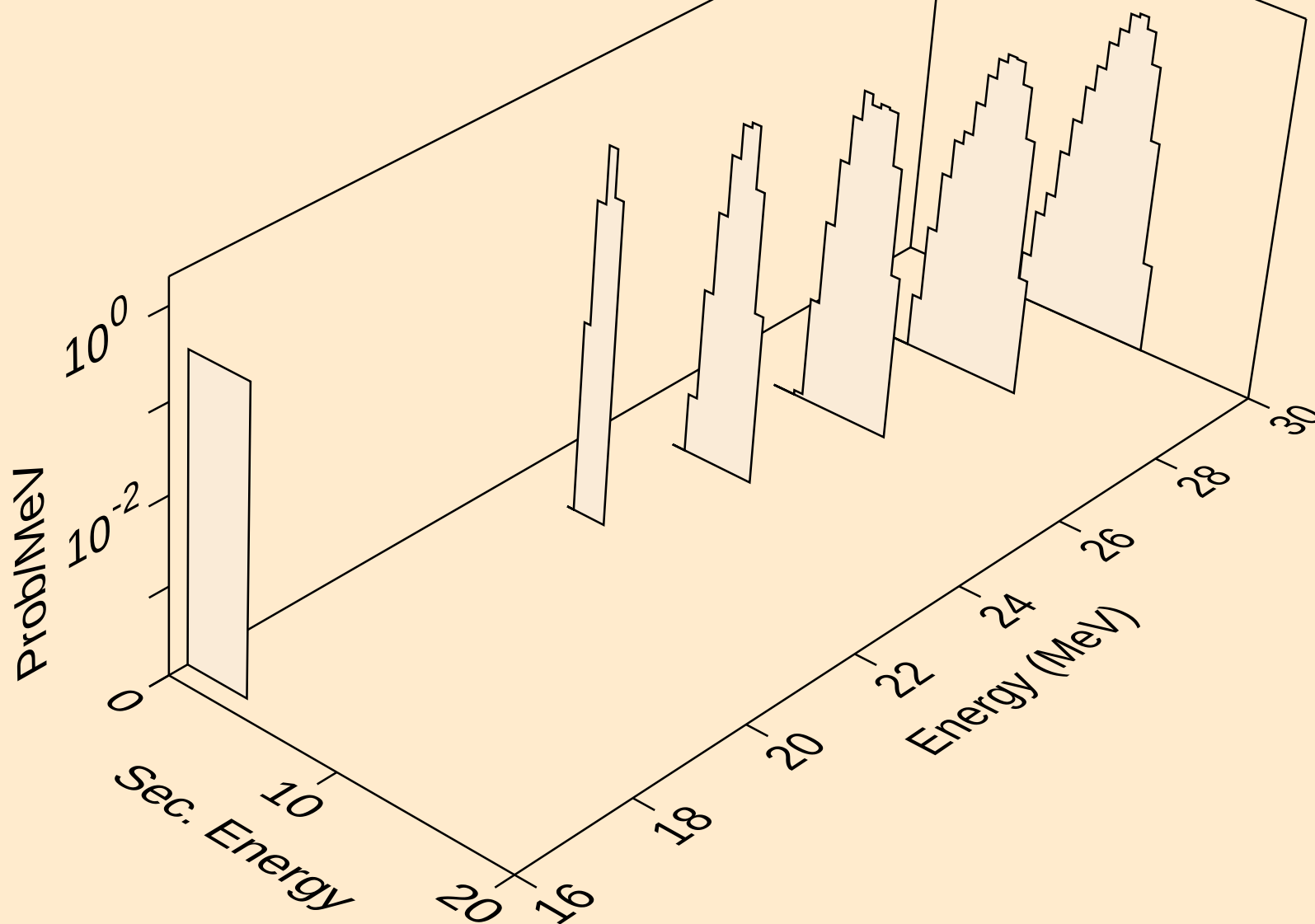
BA139 PROTON ACER TENDL-2023 LIBRARY; T=0.K
alphas from (p,n*)a



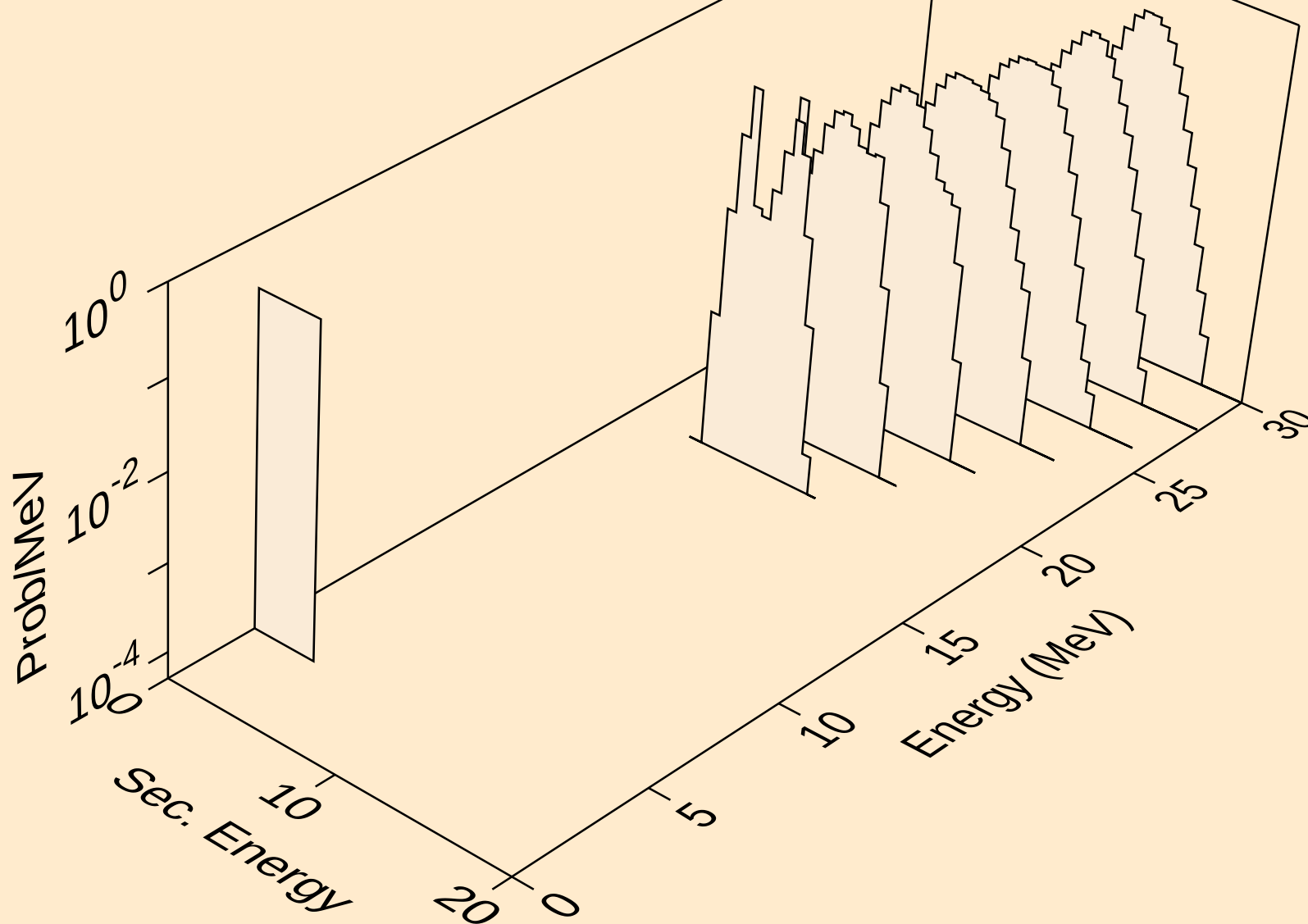
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alphas from (p,2n)a



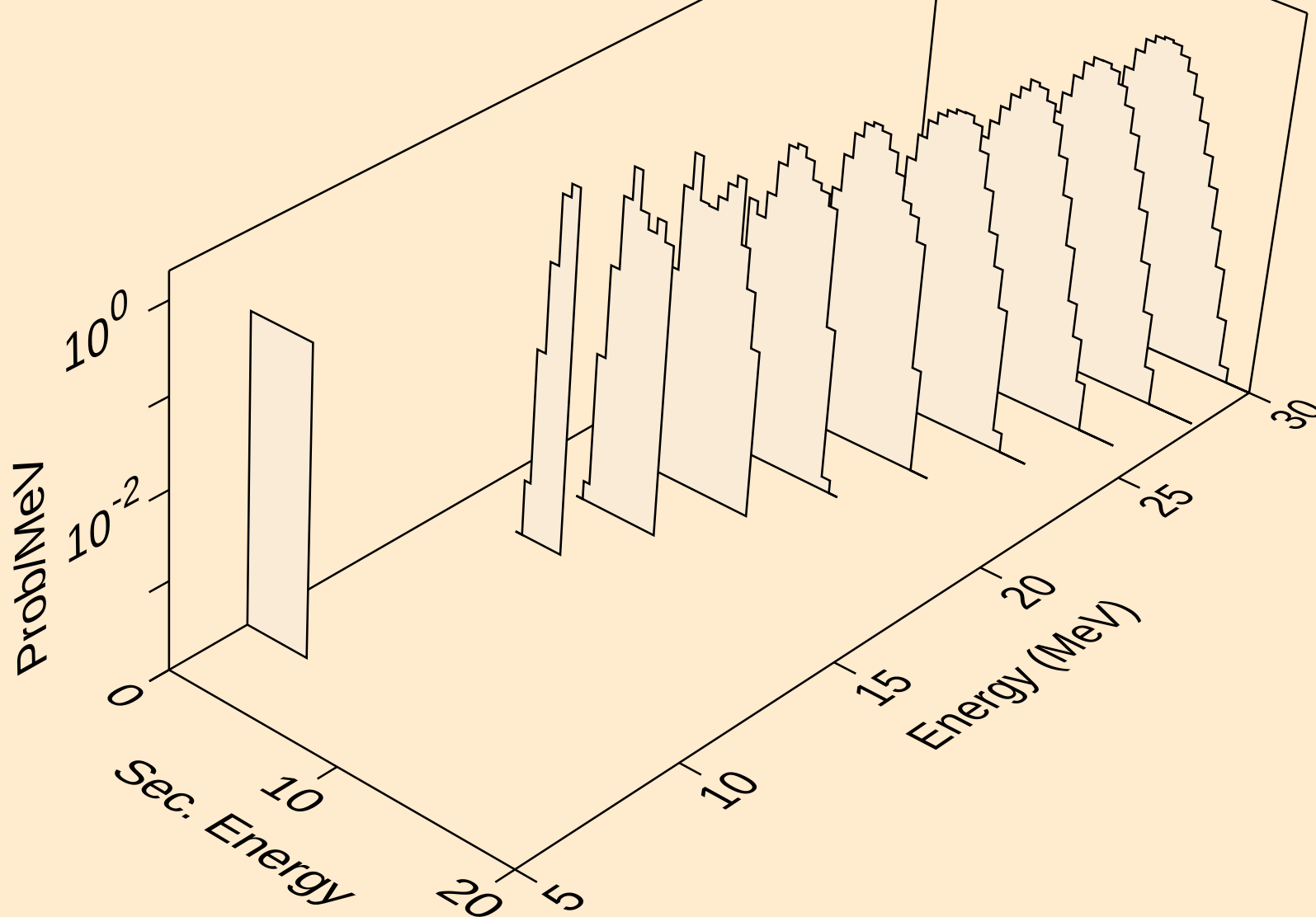
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alphas from (p,3n)a



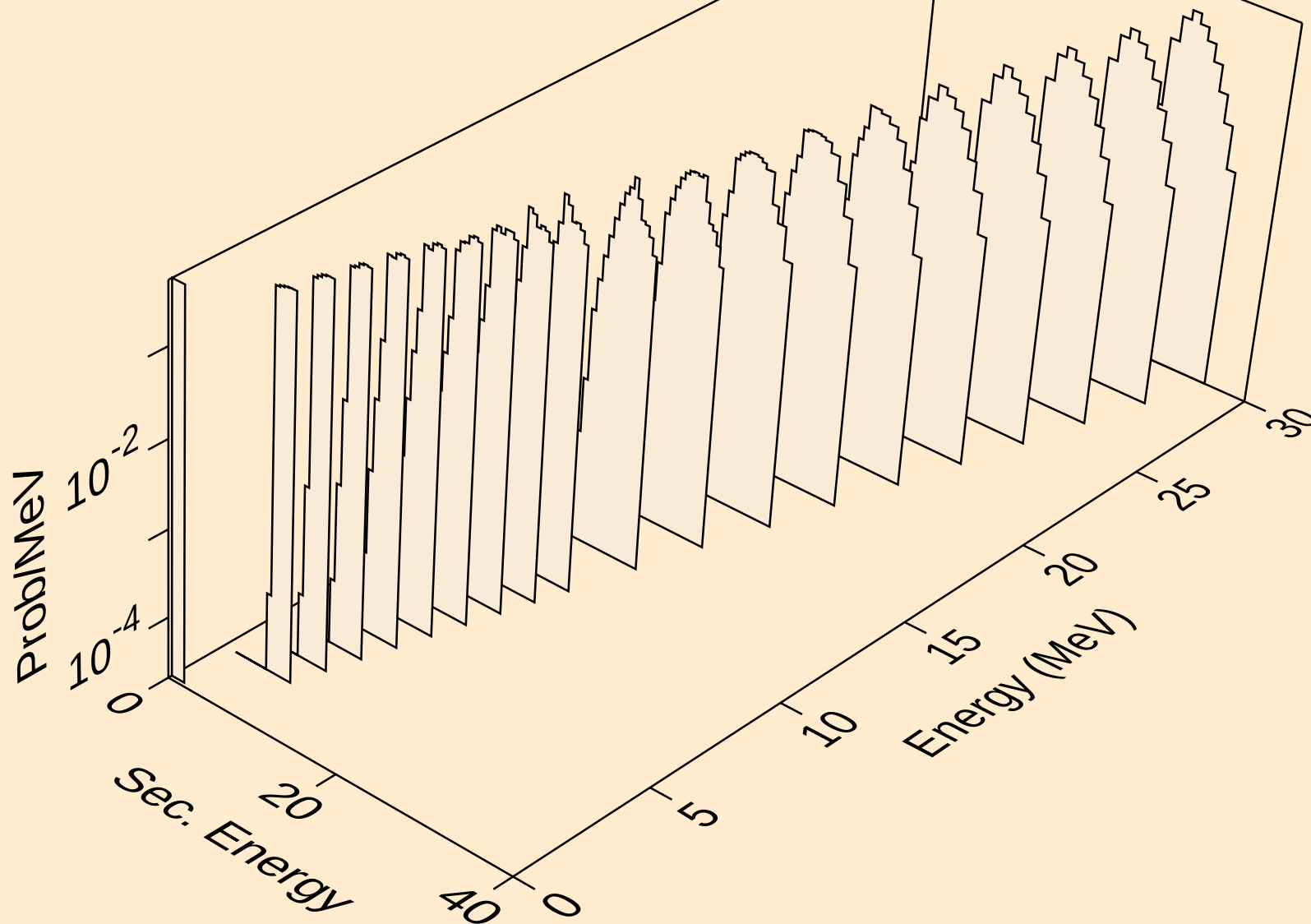
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alphas from (p,n*)2a



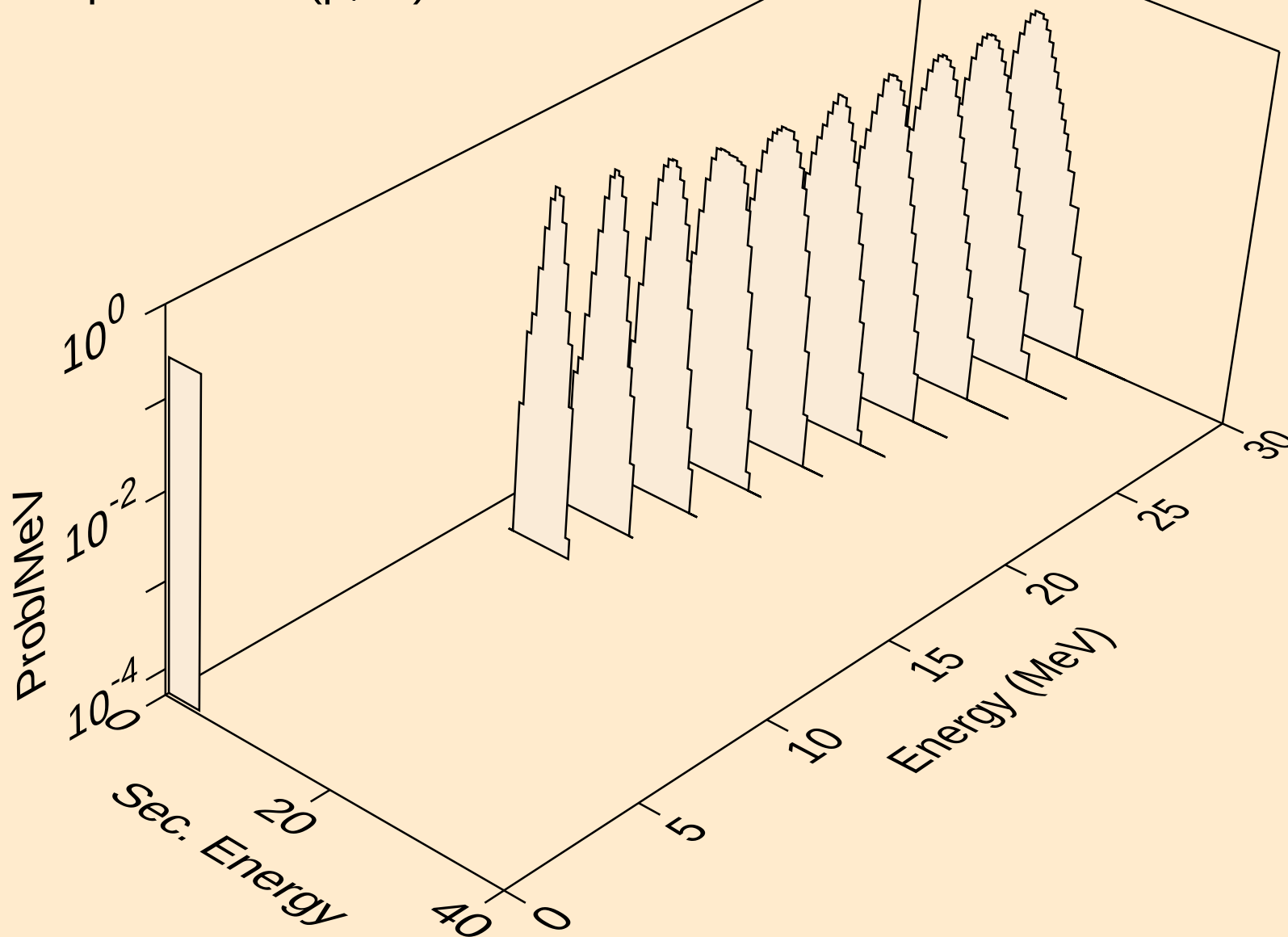
BA139 PROTON ACER TENDL-2023 LIBRARY; T=0.K
alphas from (p,npa)



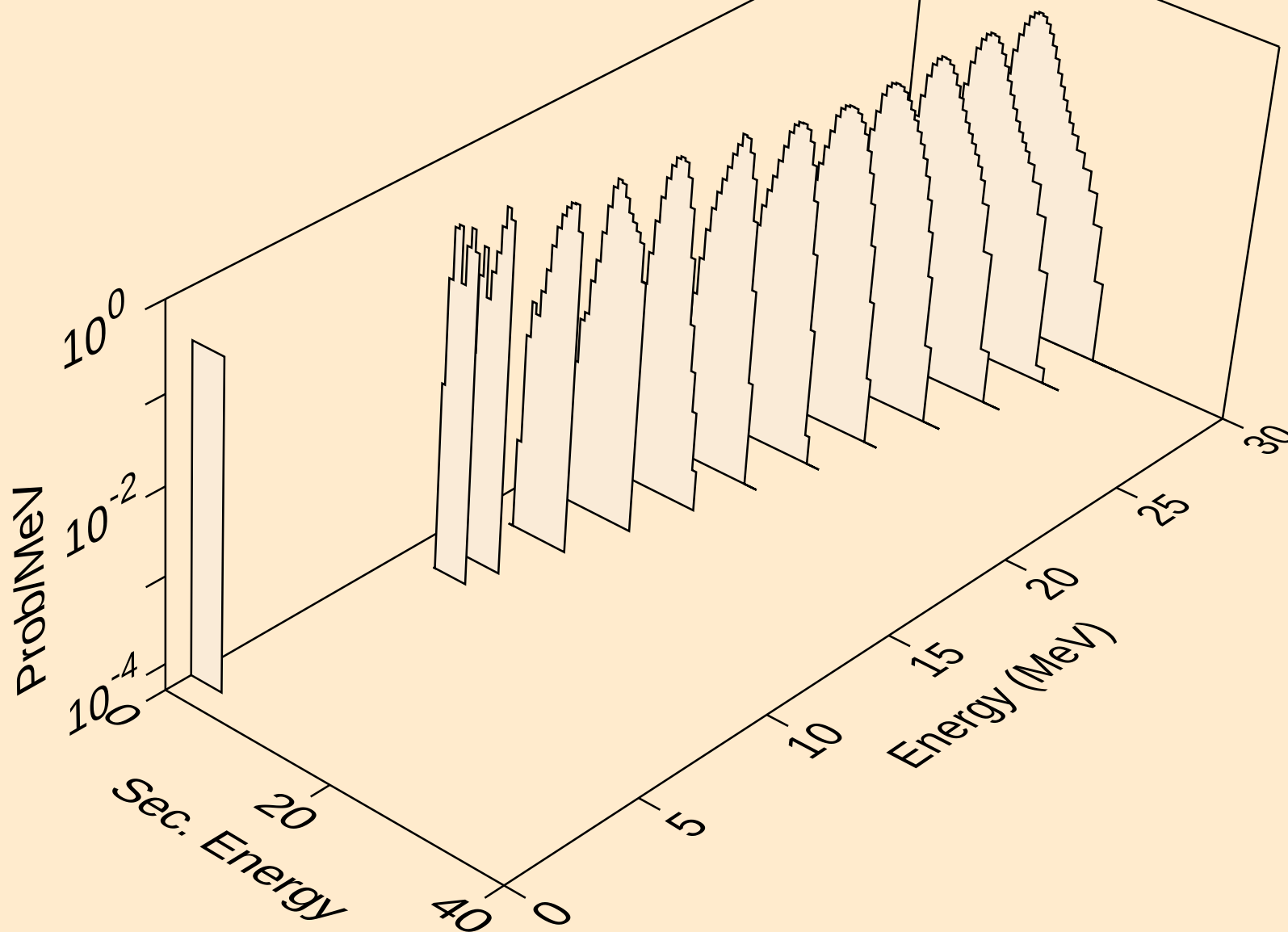
BA139 PROTON ACER TENDL-2023 LIBRARY; T=0.K
alphas from (p,a)



BA139 PROTON ACER TENDL-2023 LIBRARY; T=0.K
alphas from (p,2a)



BA139 PROTON ACER TENDL-2023 LIBRARY; T=0.K
alphas from (p,pa)



BA139 PROTON ACER TENDL-2023 LIBRARY; T=0.K
alphas from (p,da)

