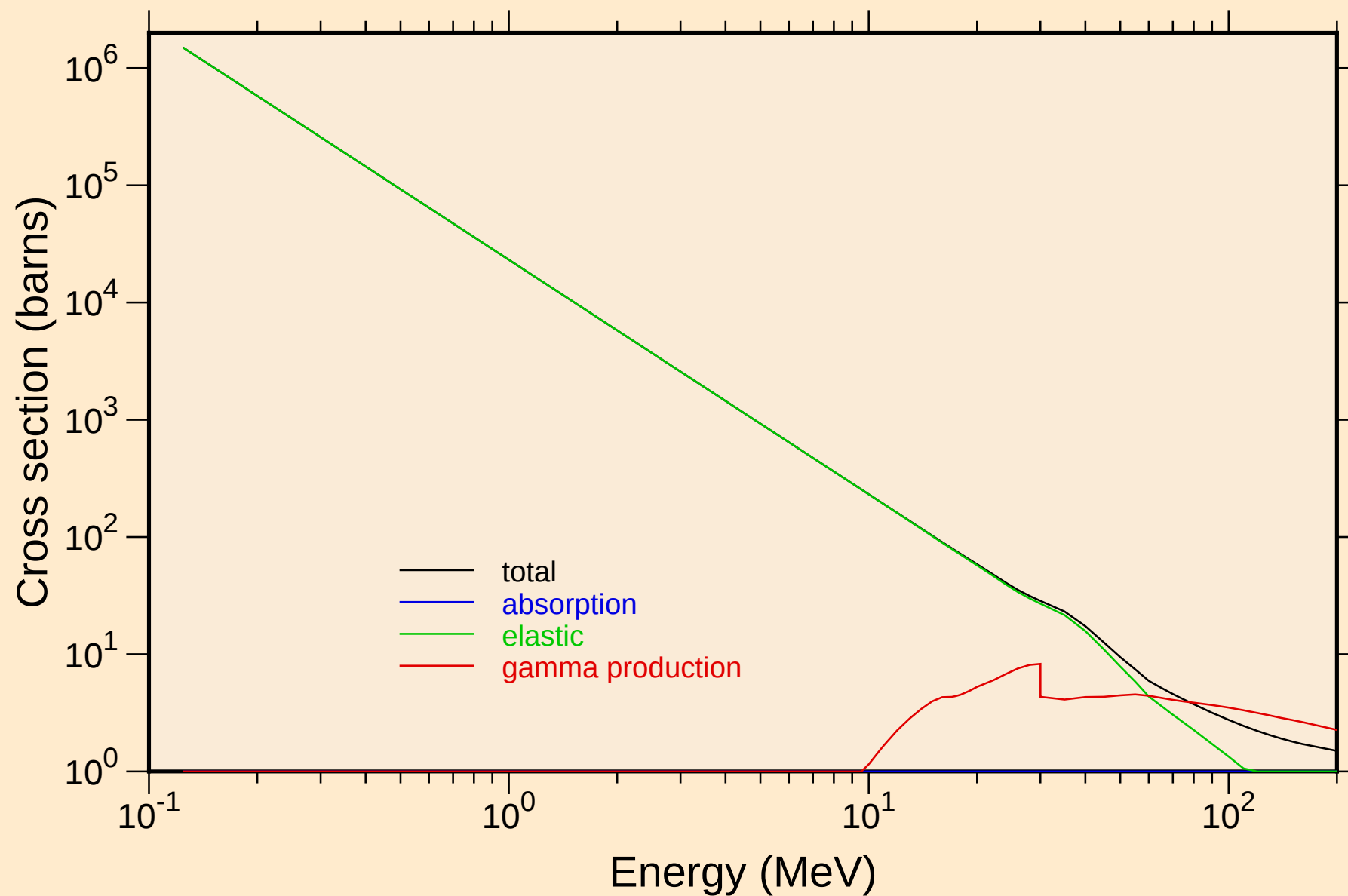
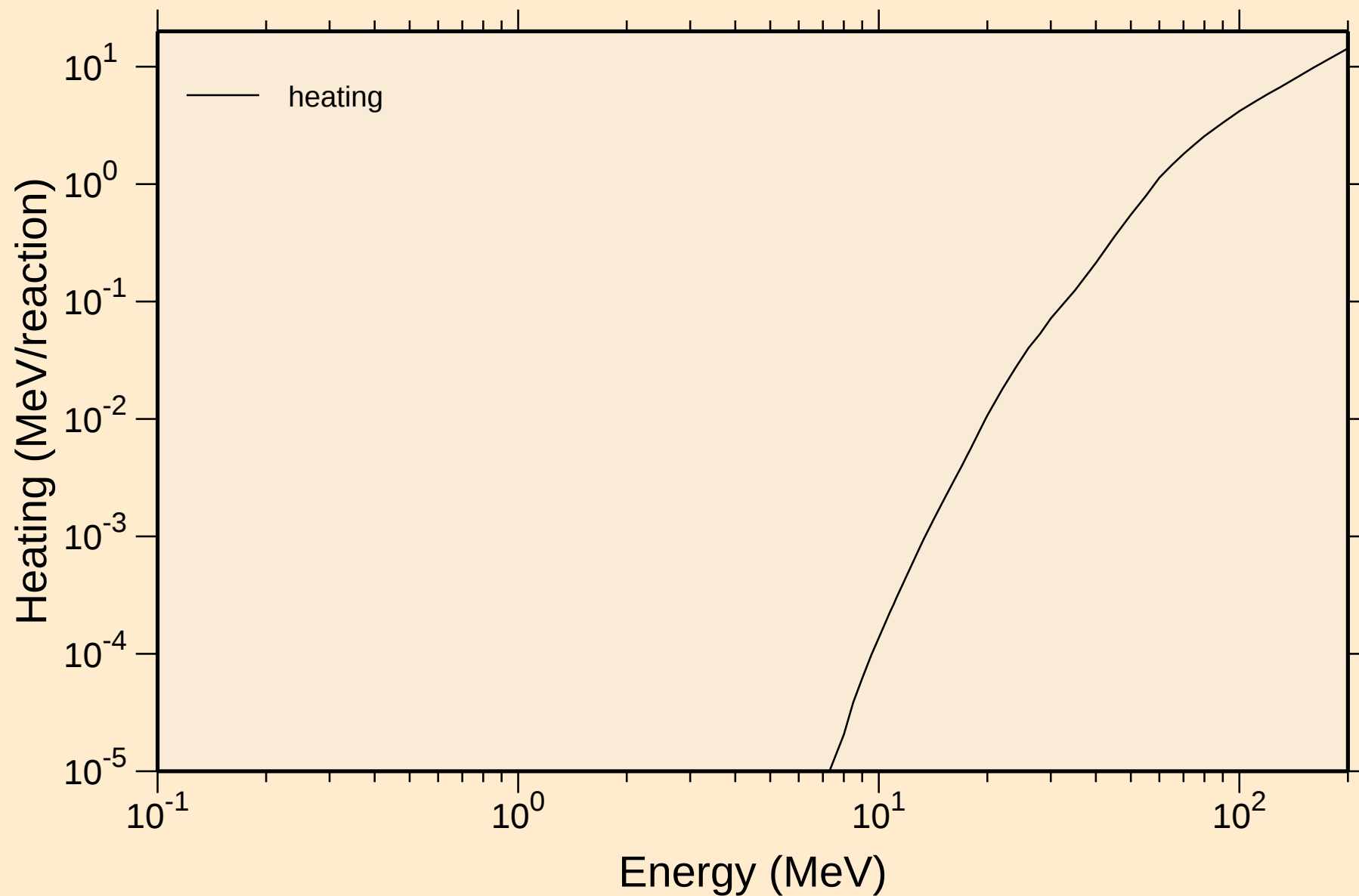


PM139 PROTON ACER TENDL-2024 LIBRARY; T=0.K
Principal cross sections



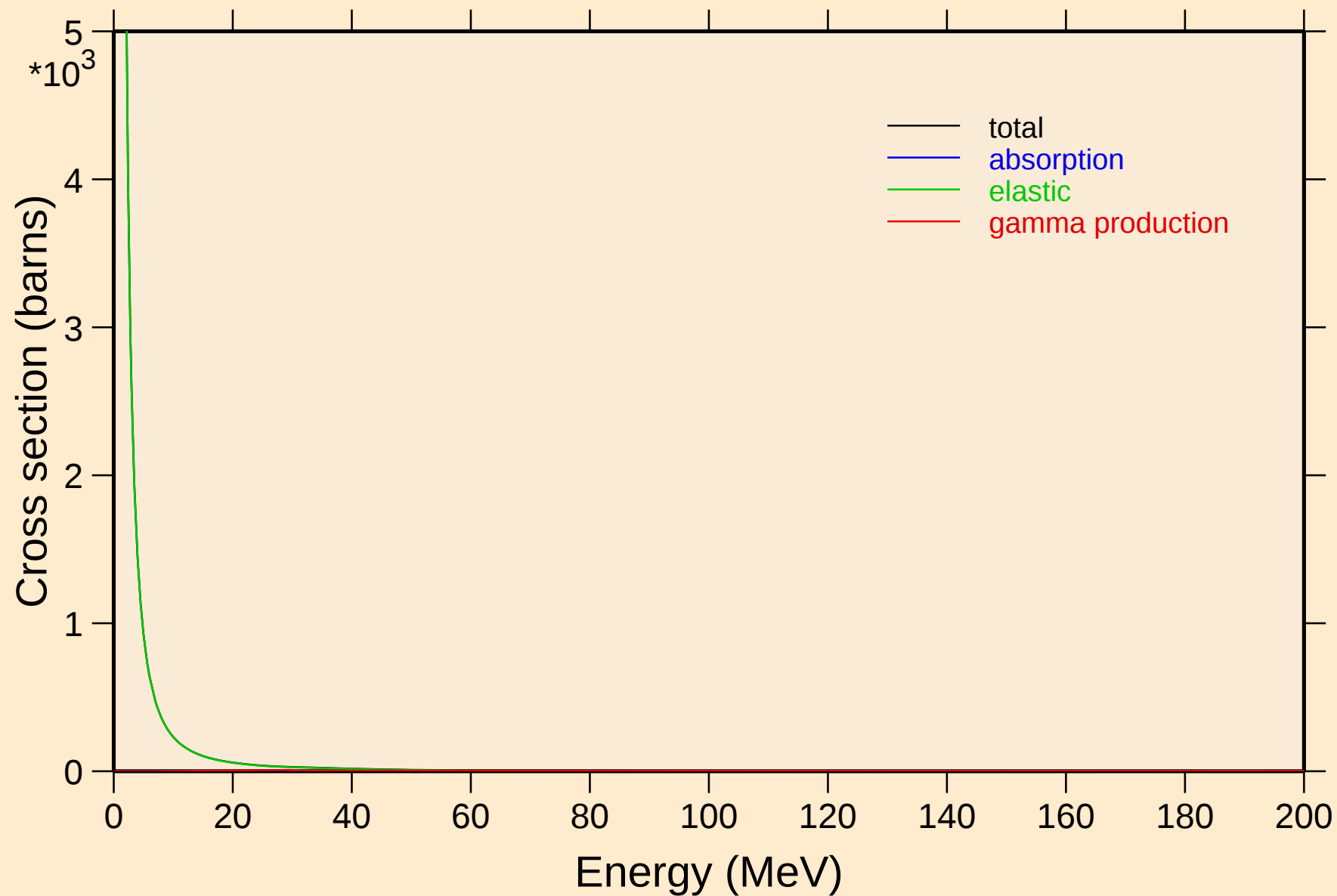
PM139 PROTON ACER TENDL-2024 LIBRARY; T=0.K

Heating



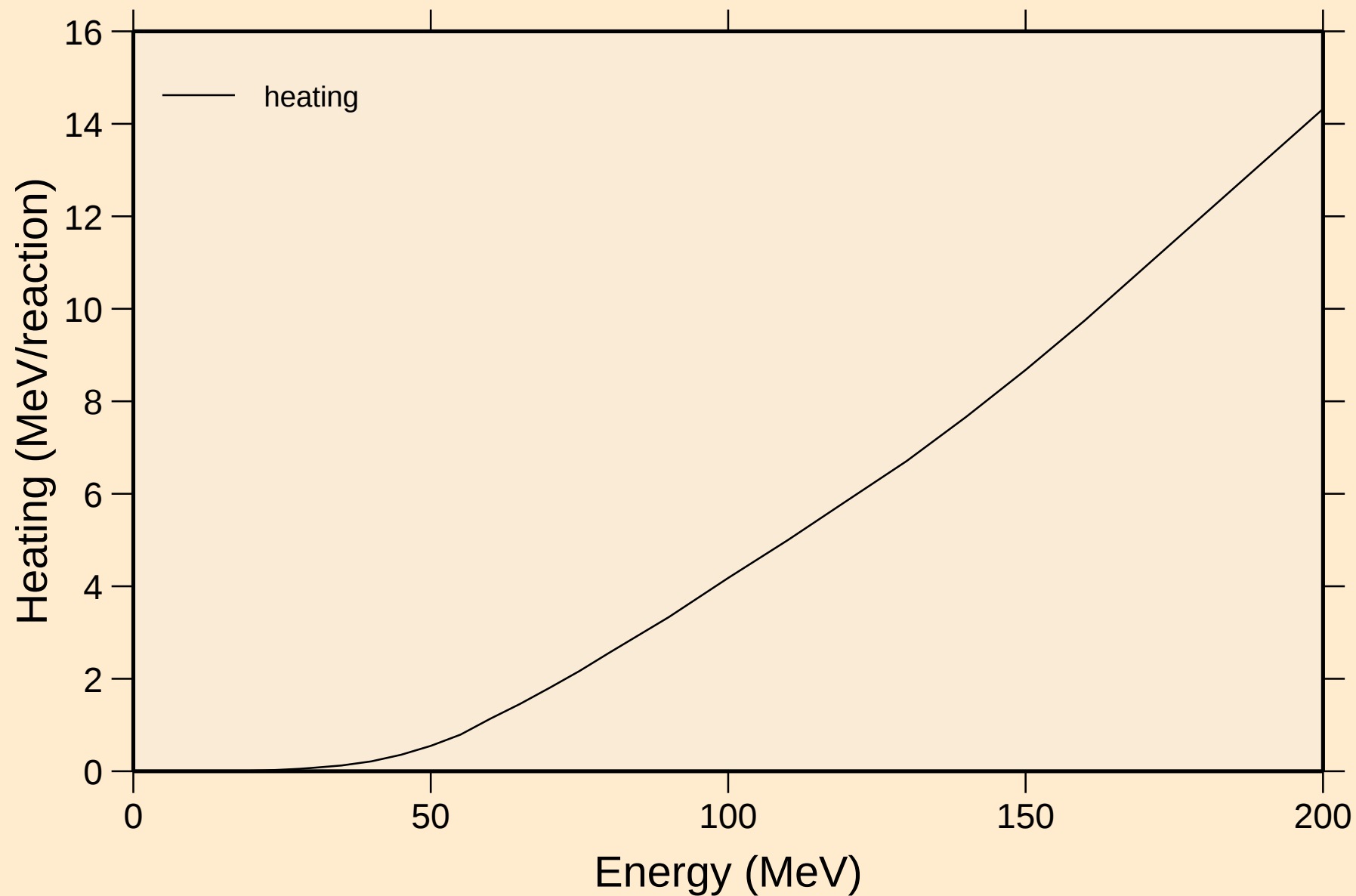
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Principal cross sections



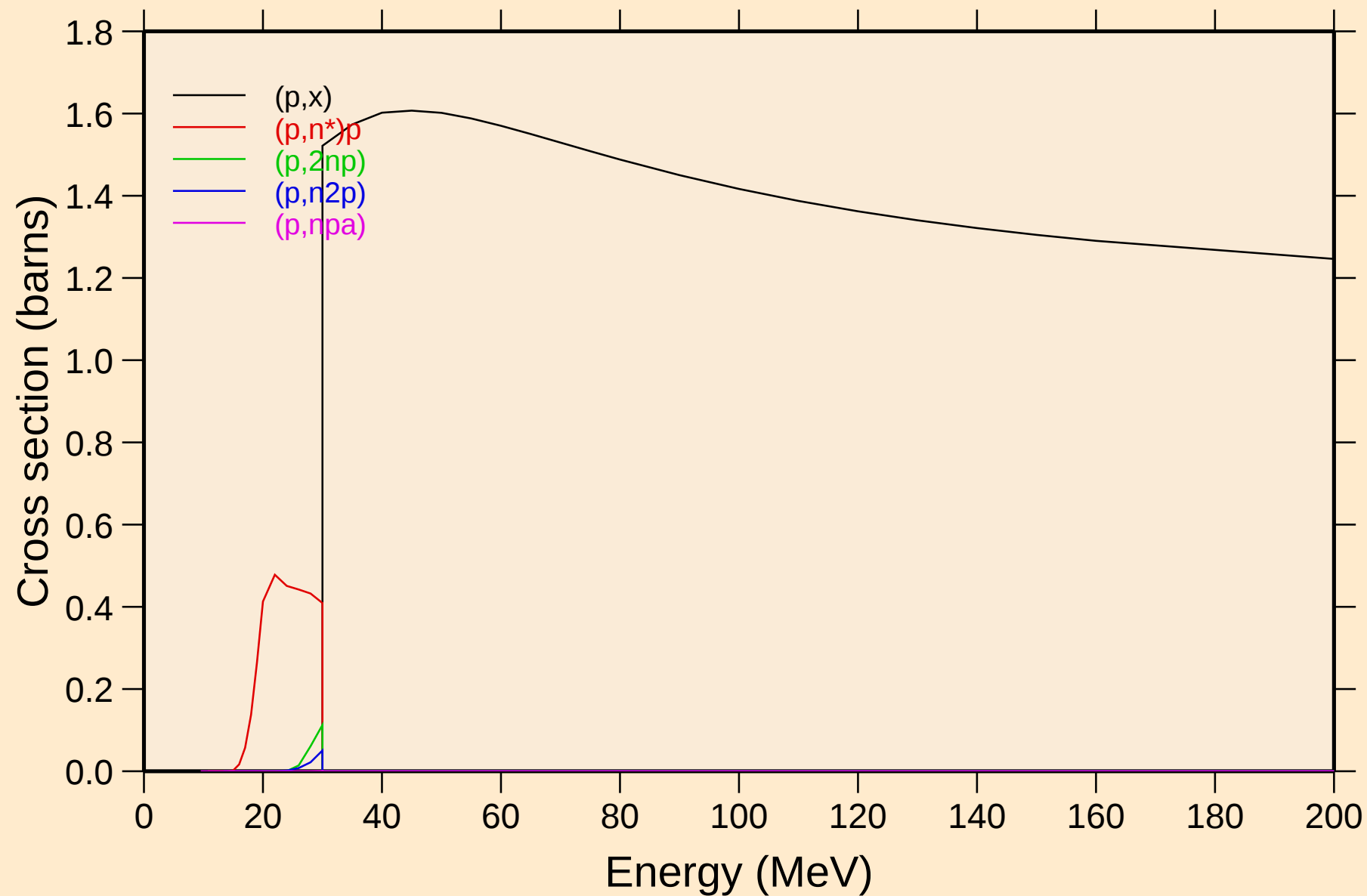
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Heating

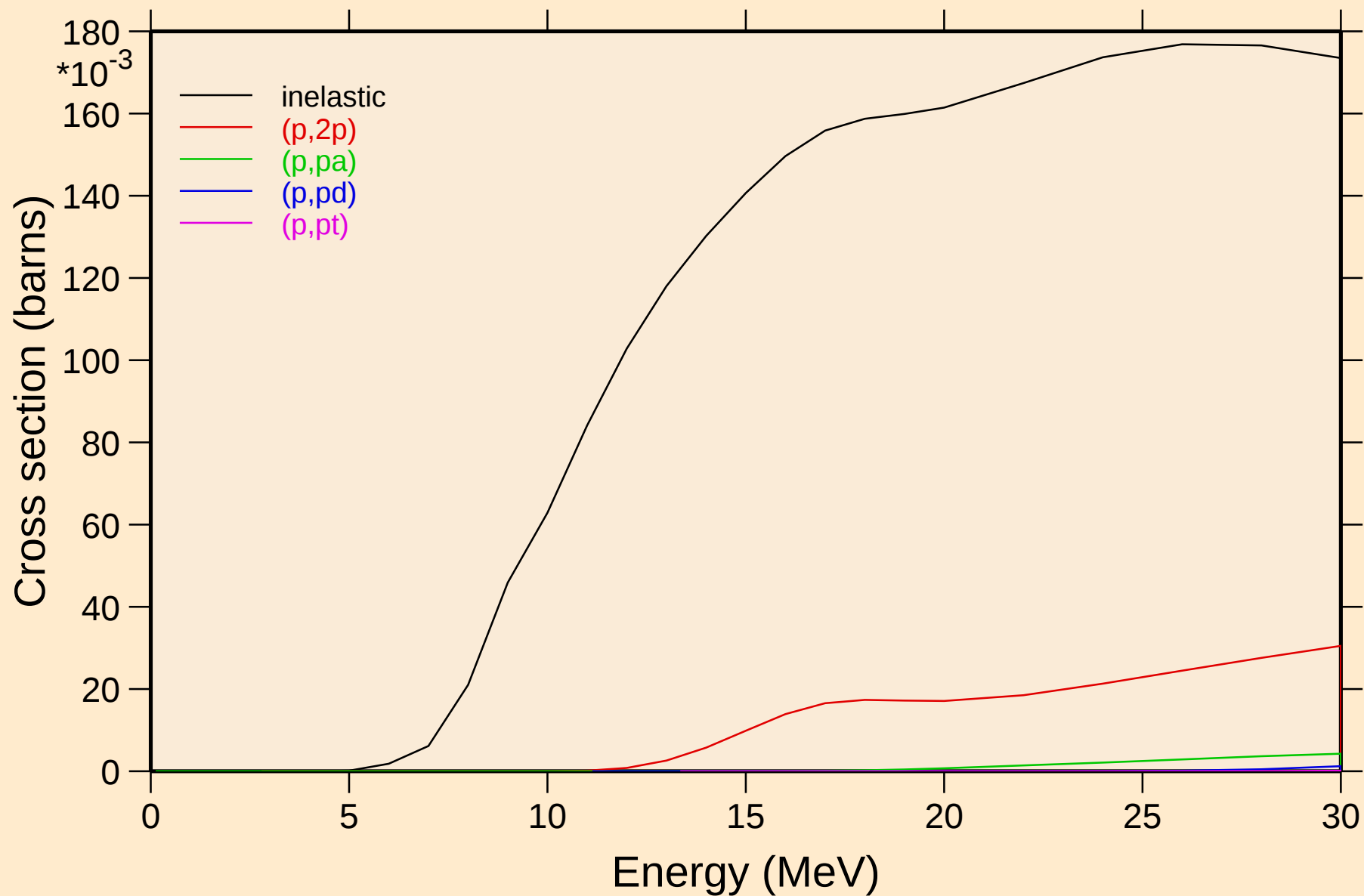


PM139 PROTON ACER TENDL-2024 LIBRARY; T=0.K

Threshold reactions

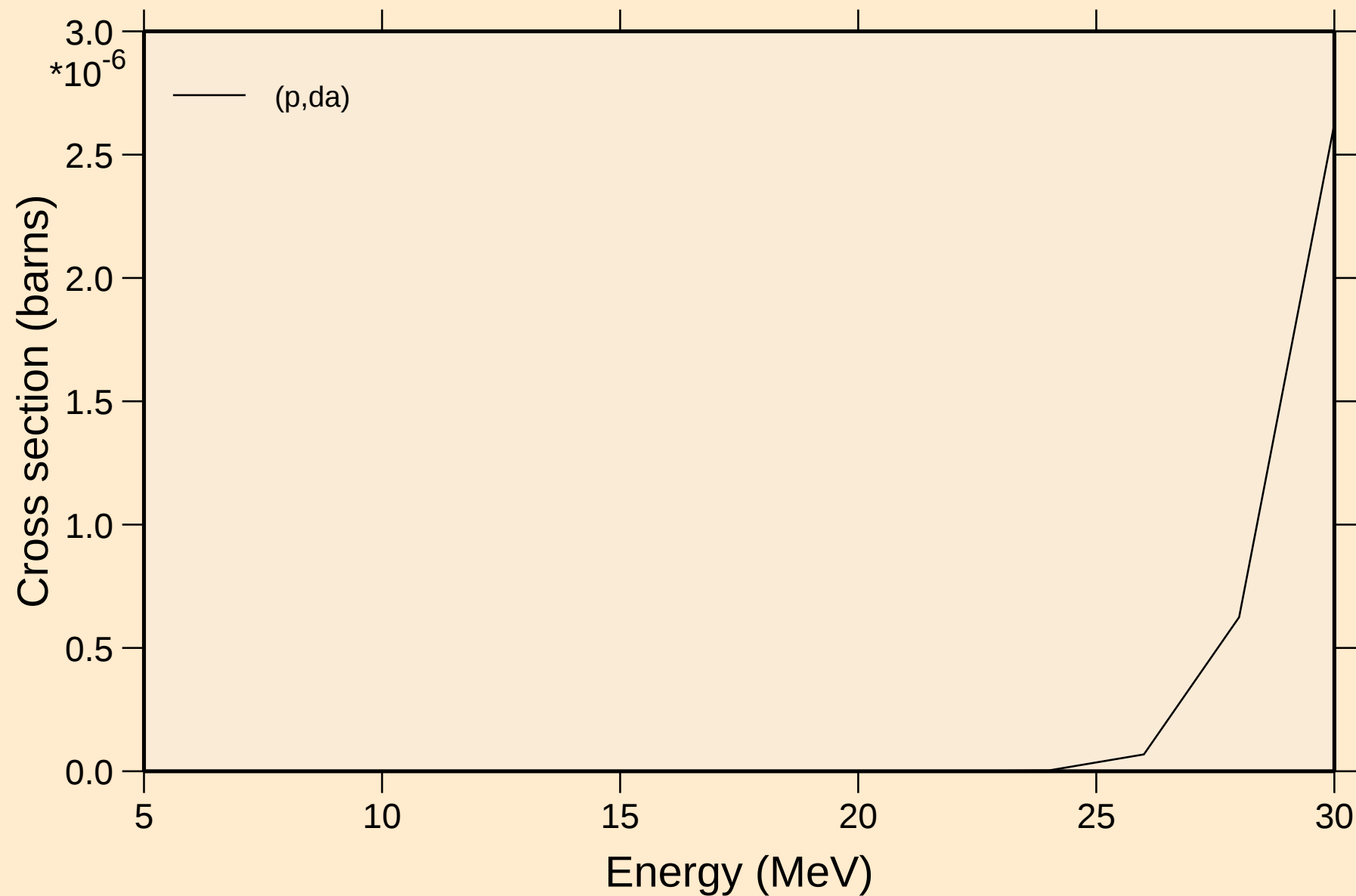


PM139 PROTON ACER TENDL-2024 LIBRARY; T=0.K
Threshold reactions

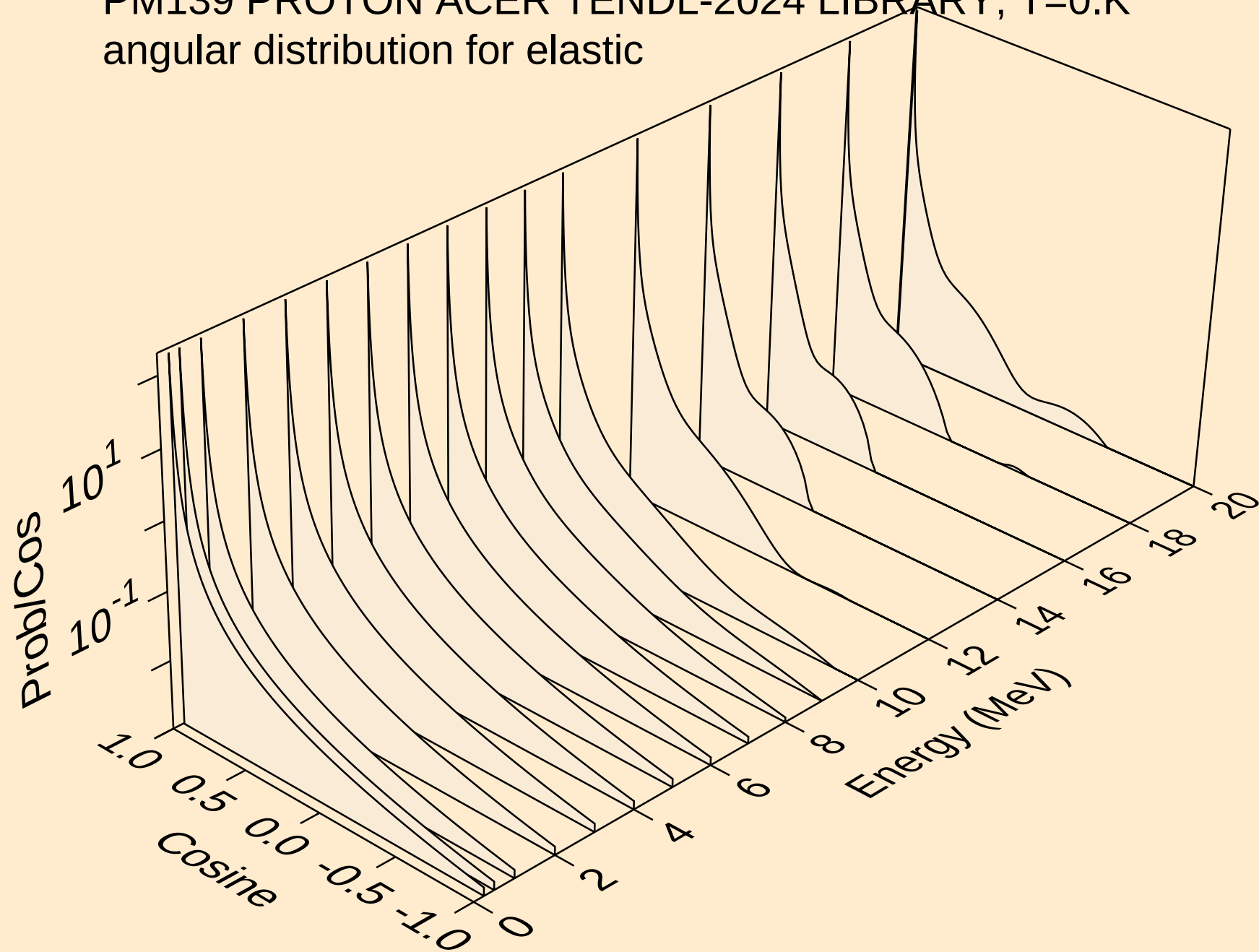


PM139 PROTON ACER TENDL-2024 LIBRARY; T=0.K

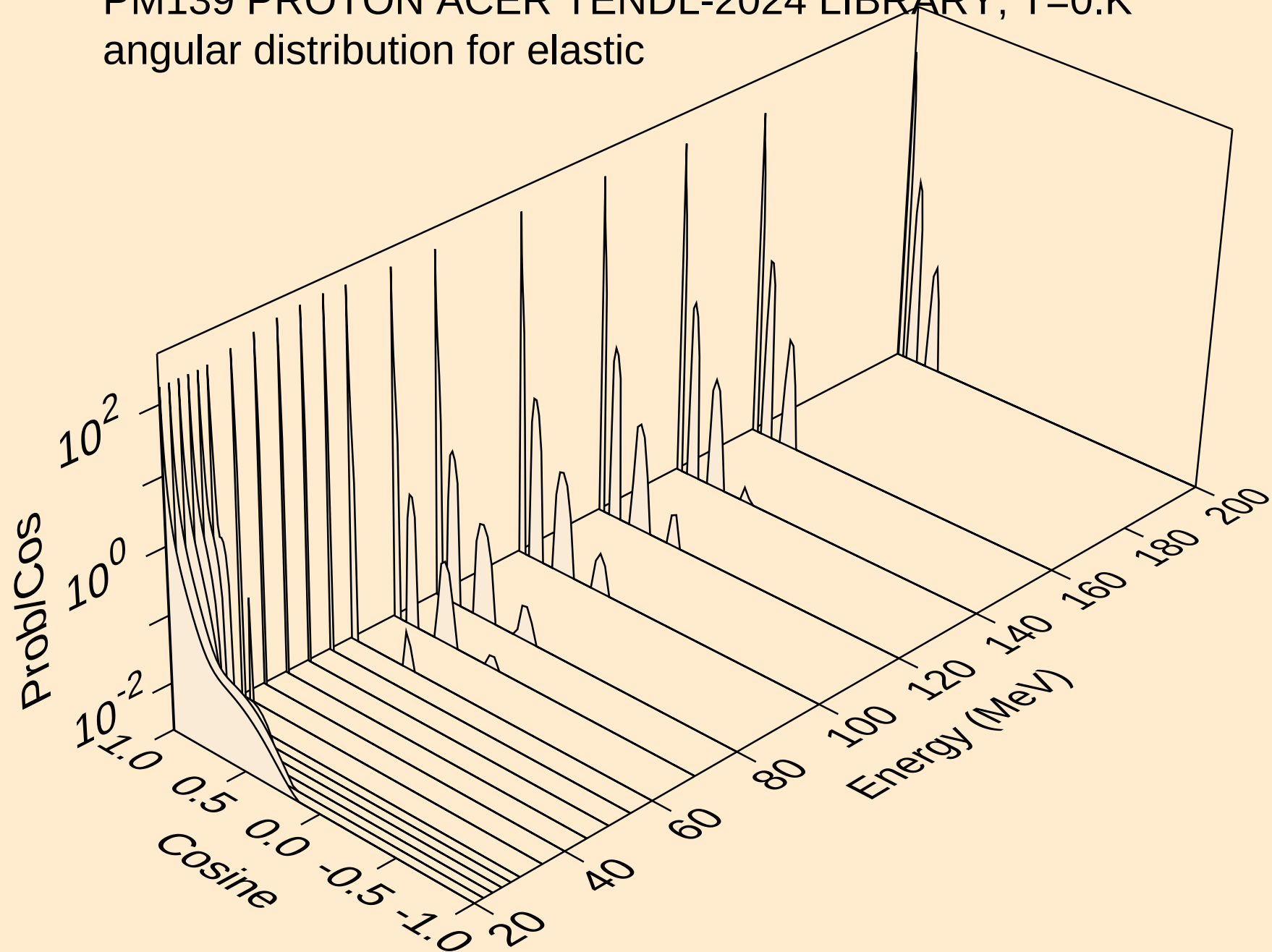
Threshold reactions



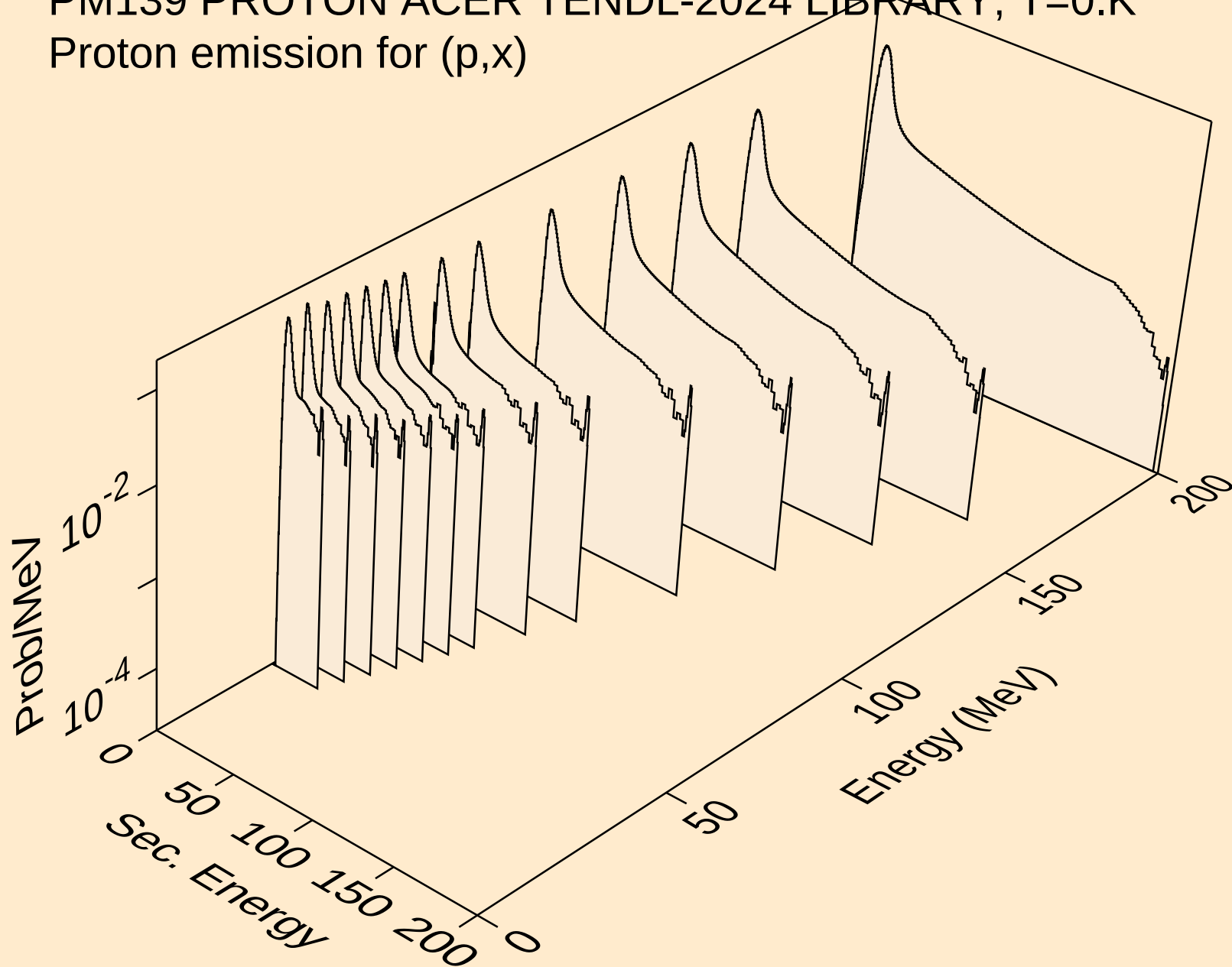
PM139 PROTON ACER TENDL-2024 LIBRARY; T=0.K
angular distribution for elastic



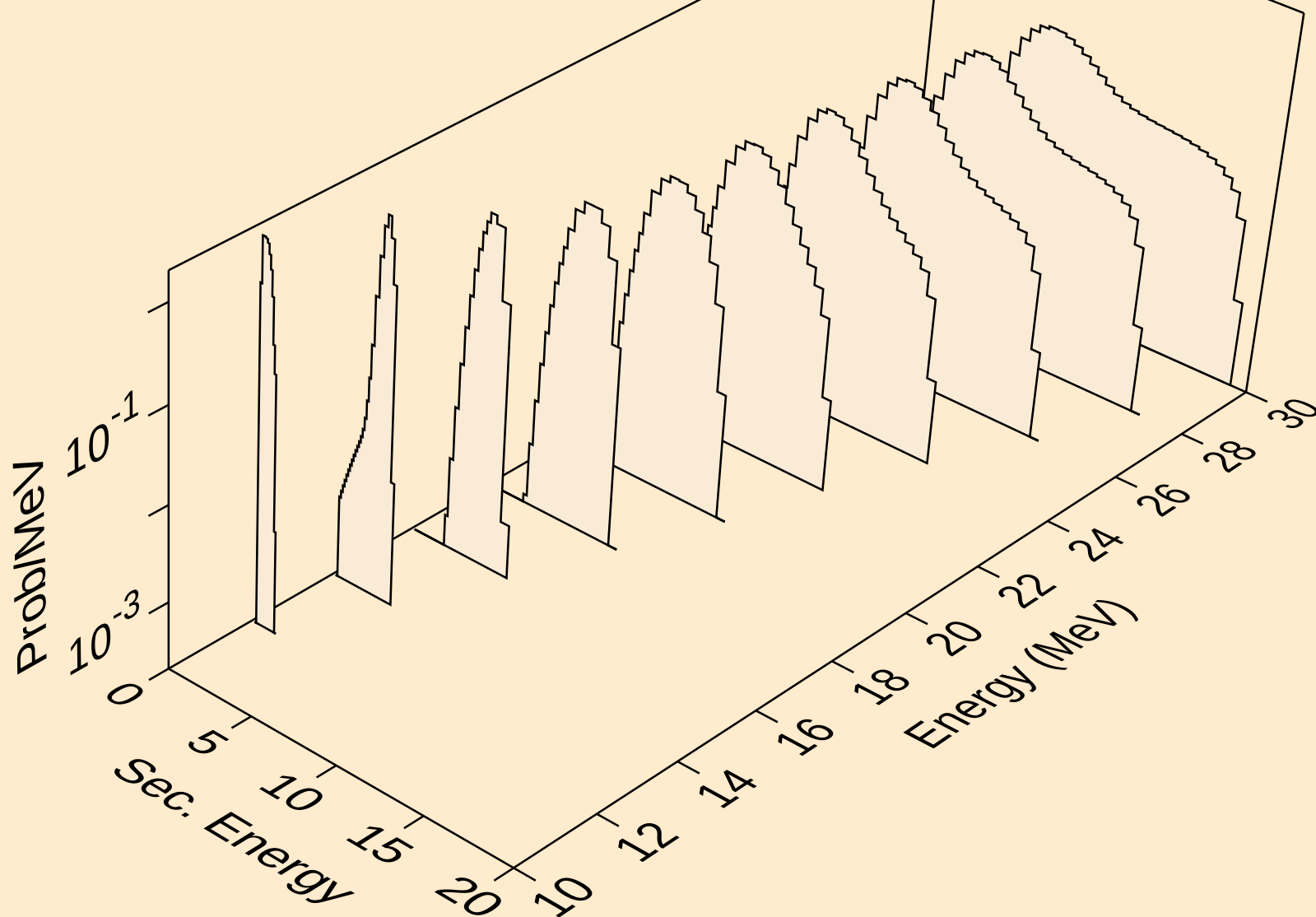
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angular distribution for elastic



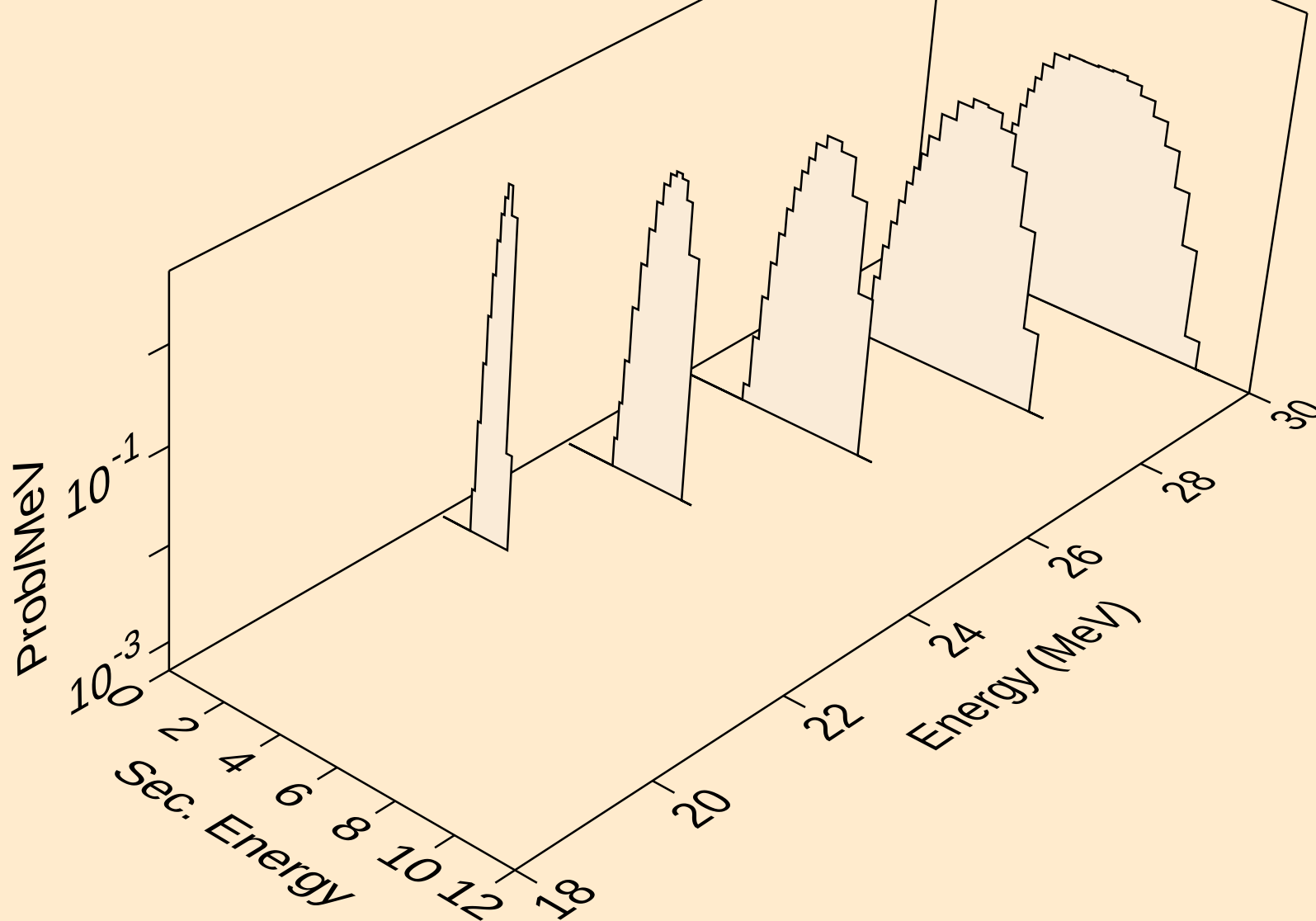
PM139 PROTON ACER TENDL-2024 LIBRARY; T=0.K
Proton emission for (p,x)



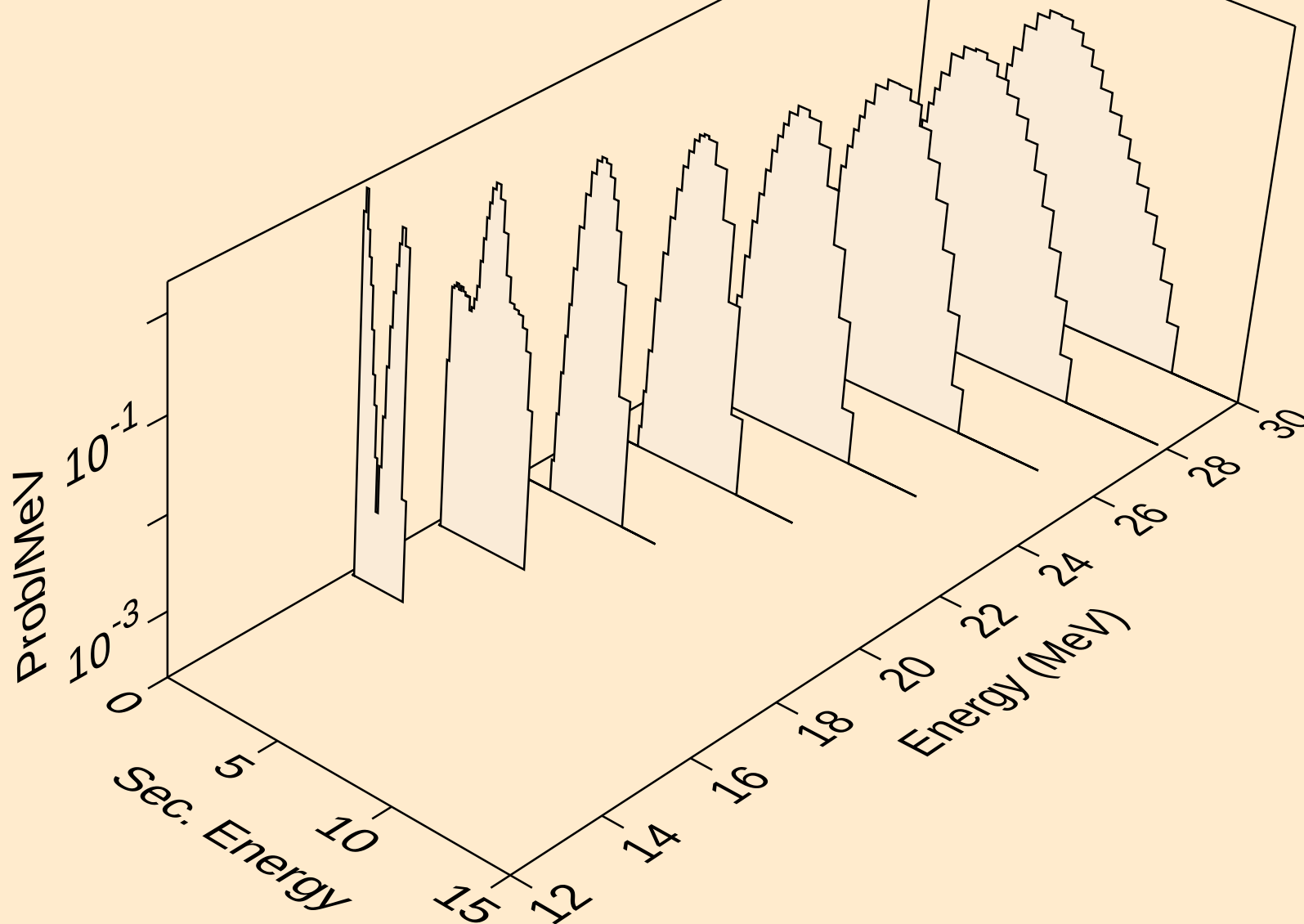
PM139 PROTON ACER TENDL-2024 LIBRARY; T=0.K
Proton emission for (p,n*)p



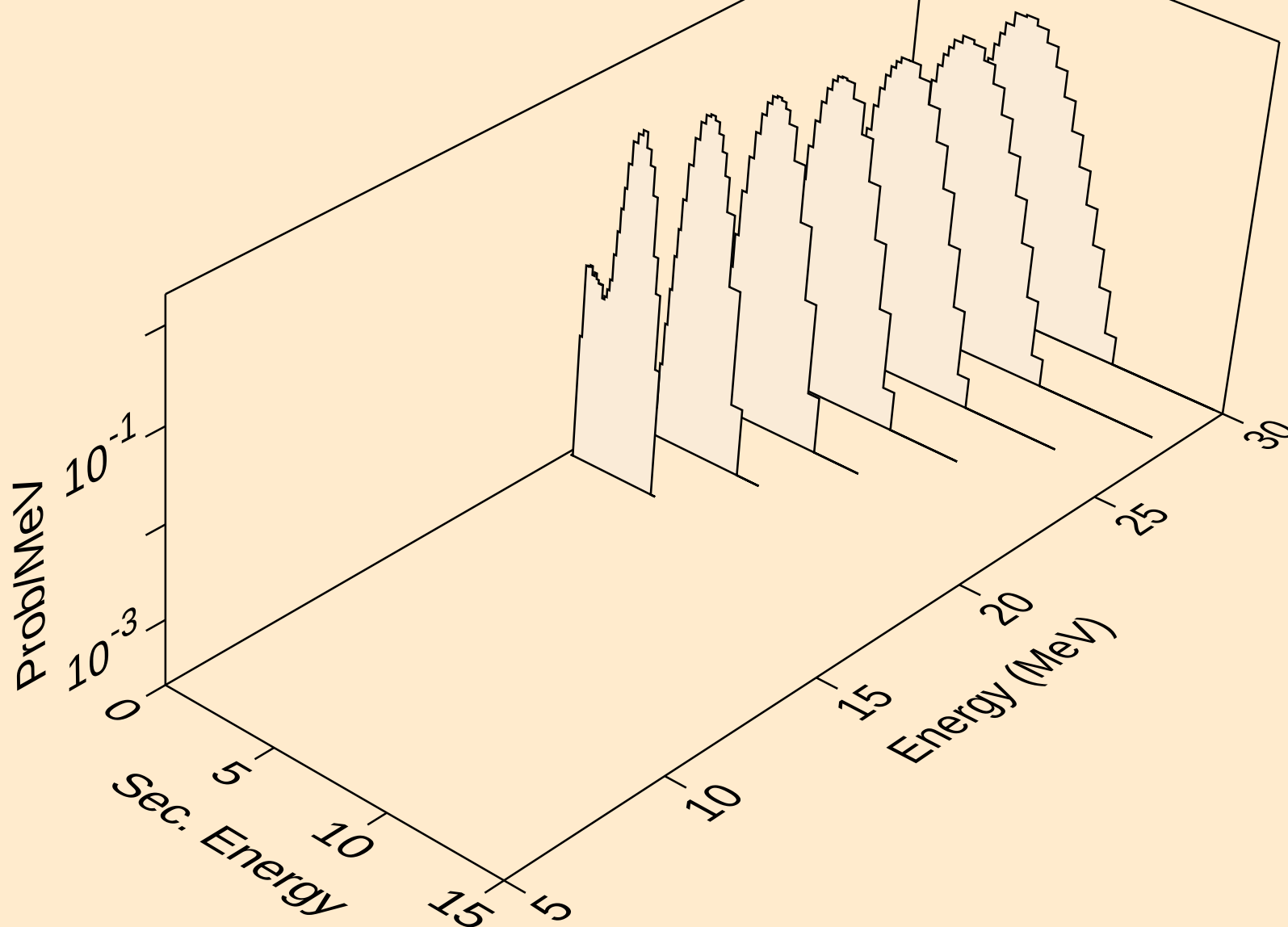
PM139 PROTON ACER TENDL-2024 LIBRARY; T=0.K
Proton emission for (p,2np)



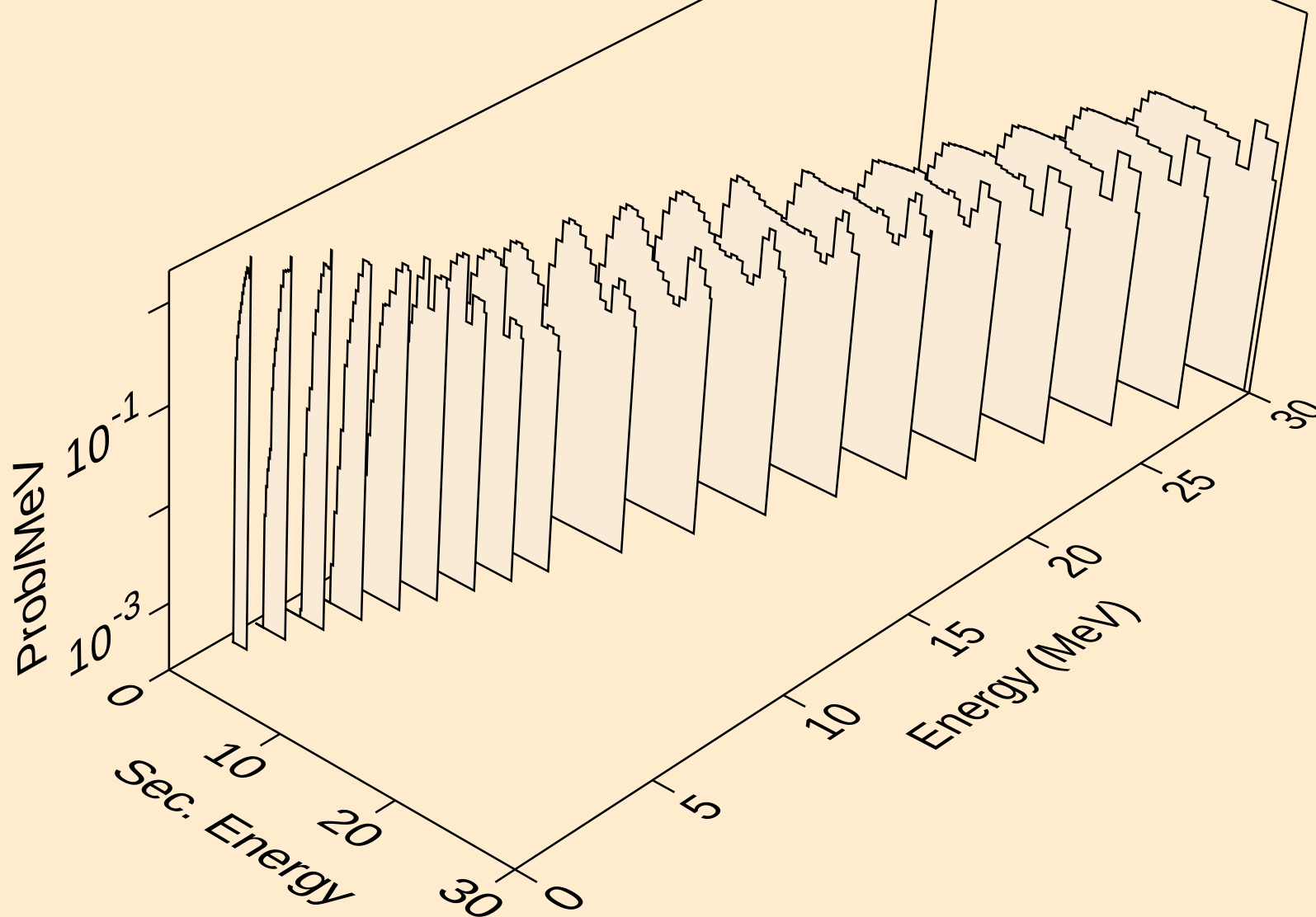
PM139 PROTON ACER TENDL-2024 LIBRARY; T=0.K
Proton emission for (p,n2p)



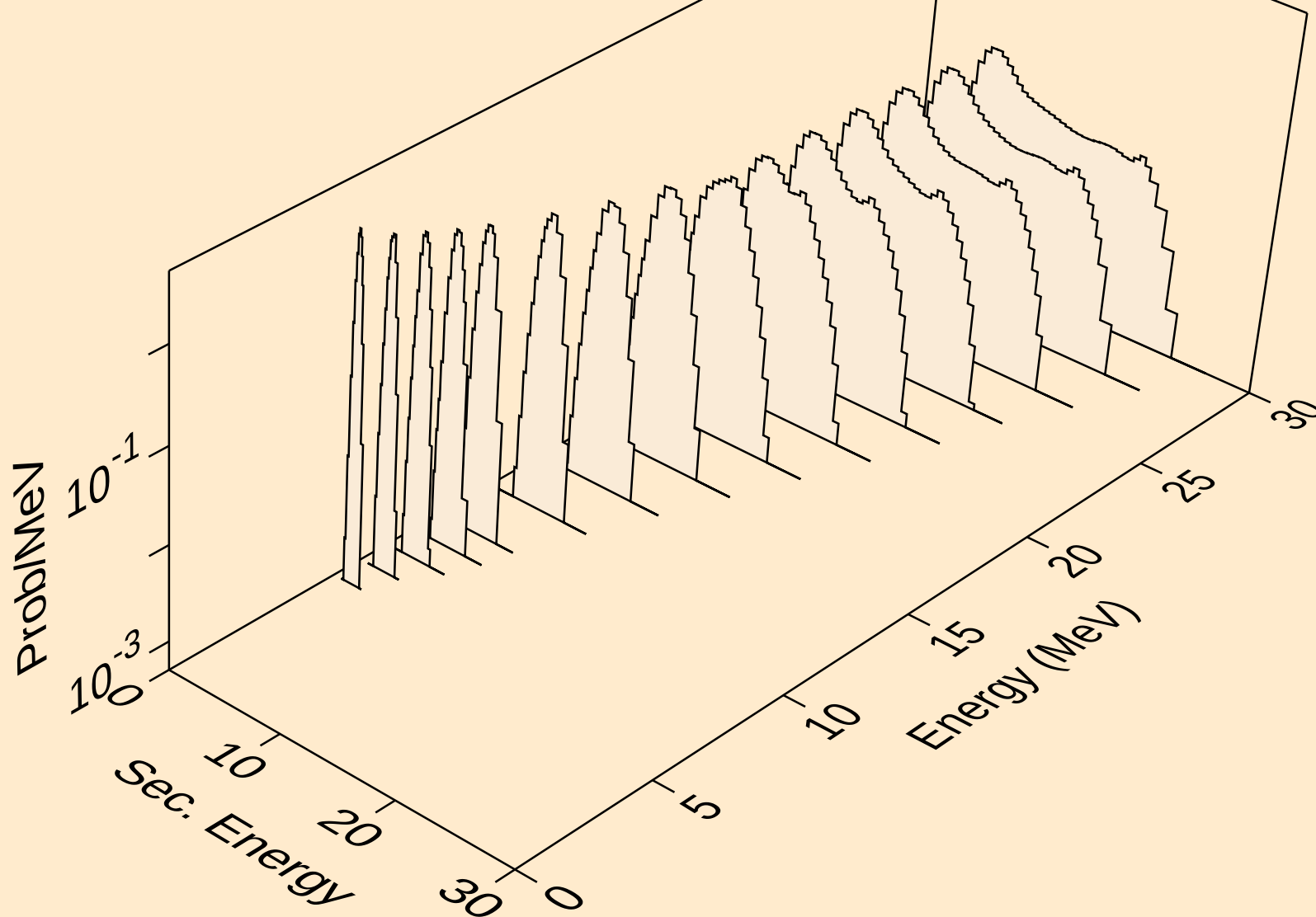
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Proton emission for (p,npa)



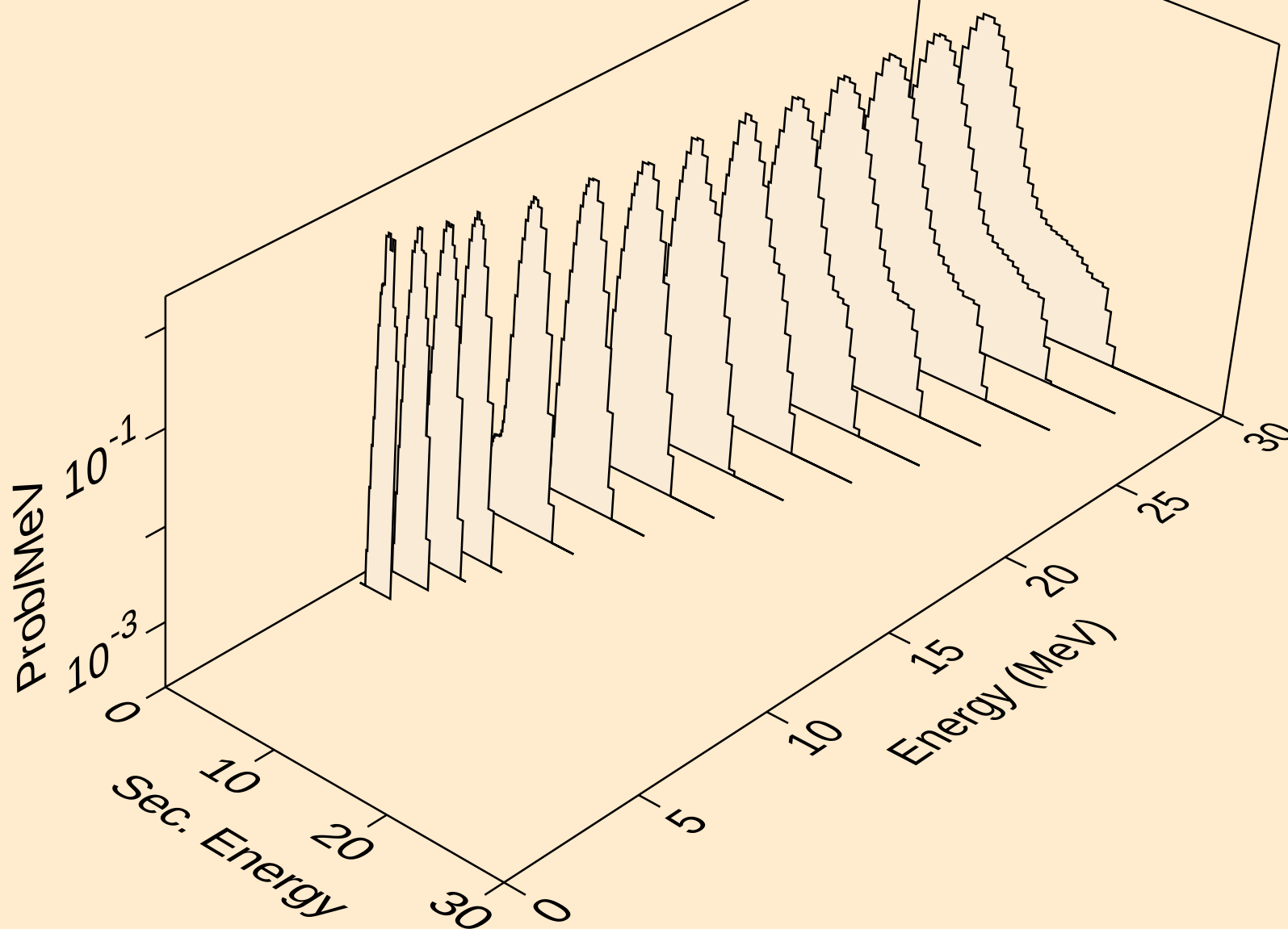
PM139 PROTON ACER TENDL-2024 LIBRARY; T=0.K
Proton emission for inelastic



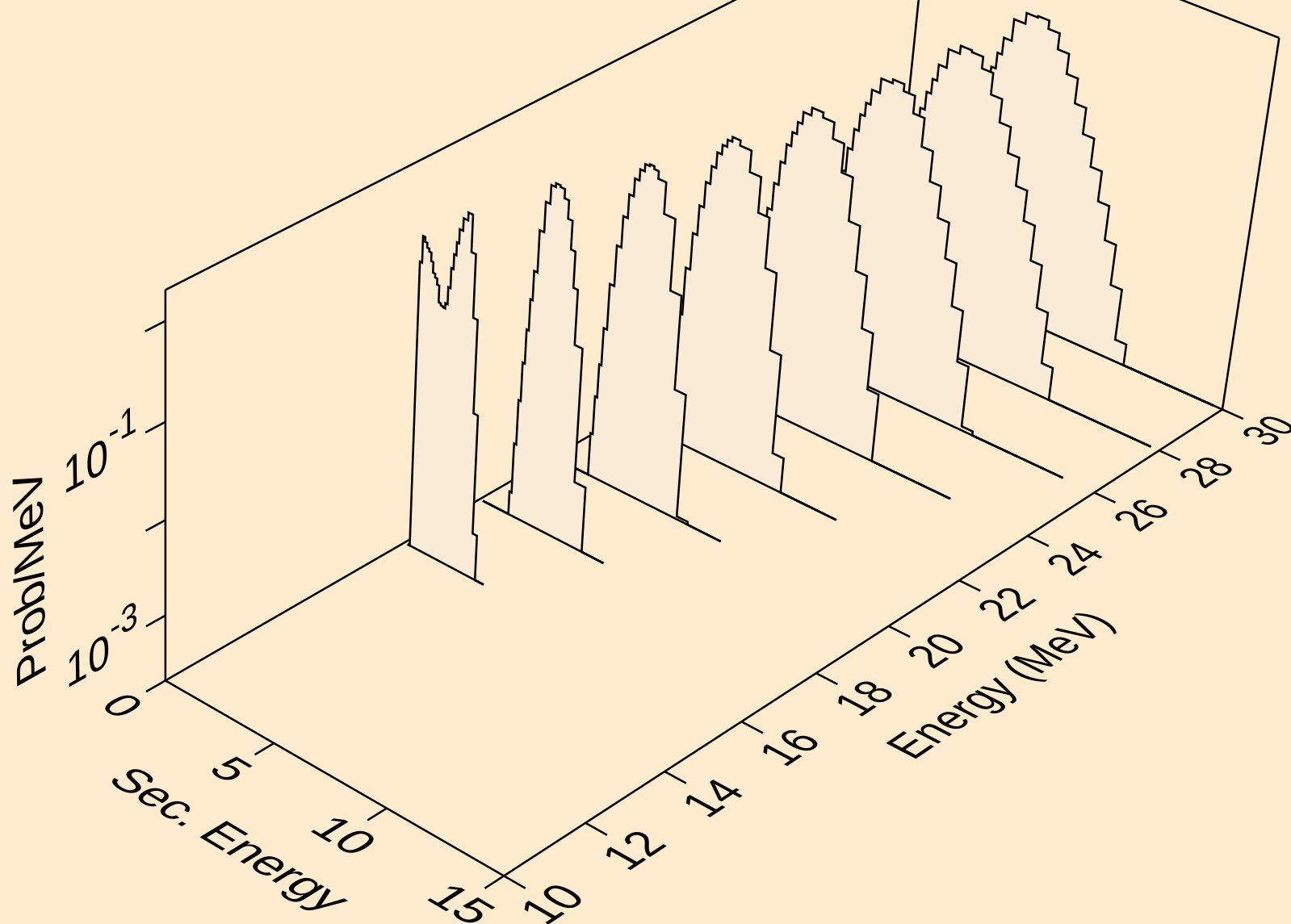
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Proton emission for (p,2p)



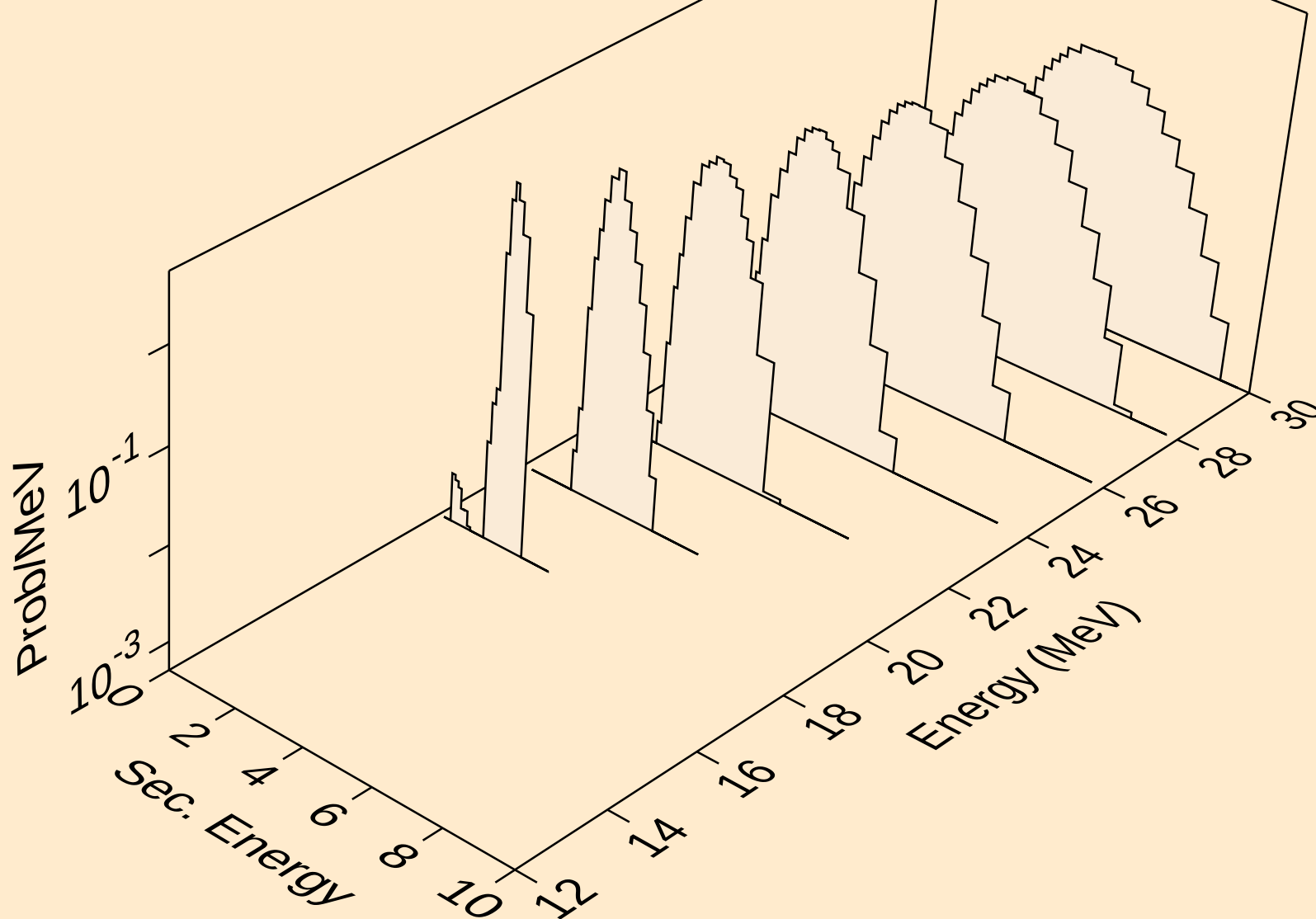
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Proton emission for (p,pa)



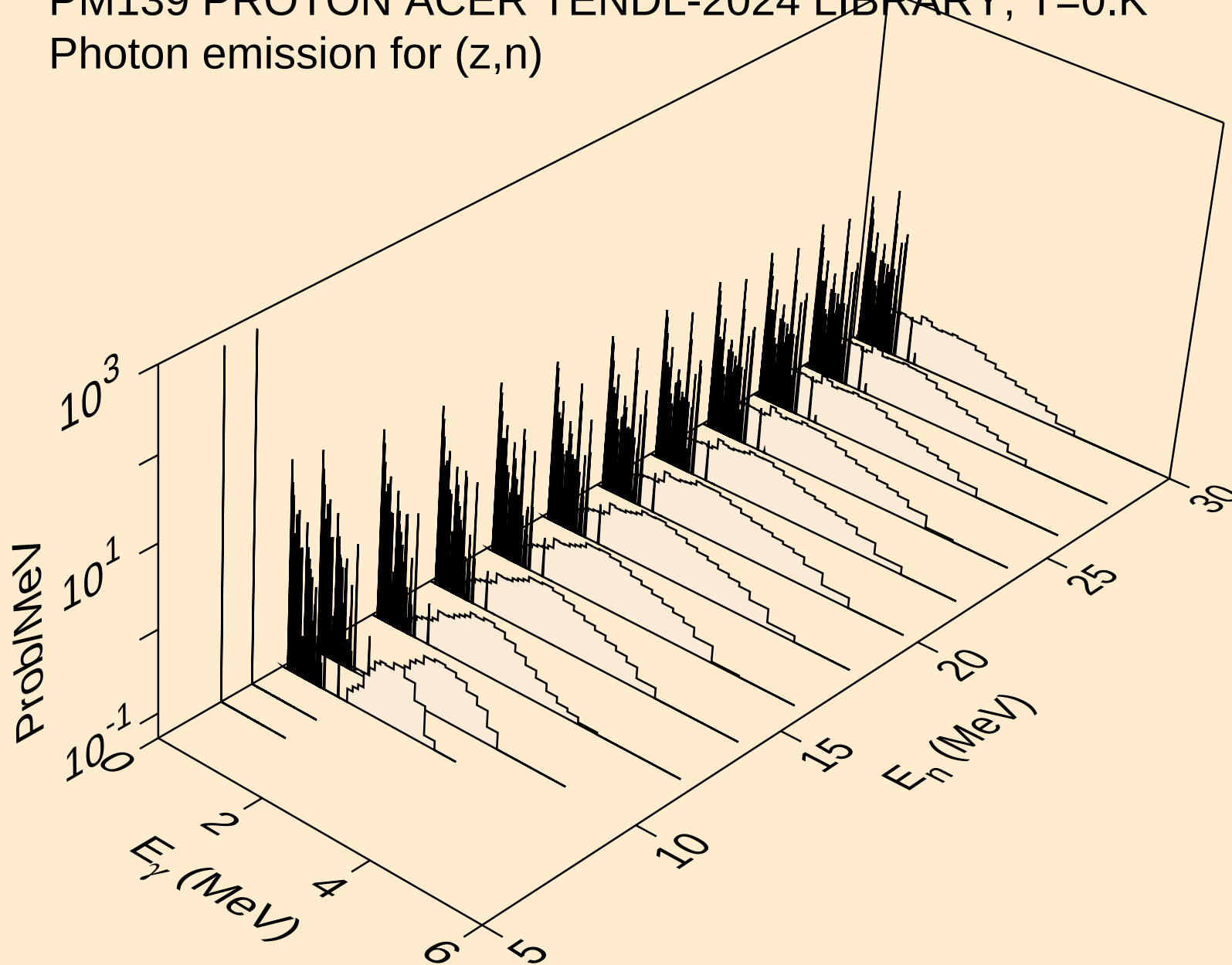
PM139 PROTON ACER TENDL-2024 LIBRARY; T=0.K
Proton emission for (p,pd)



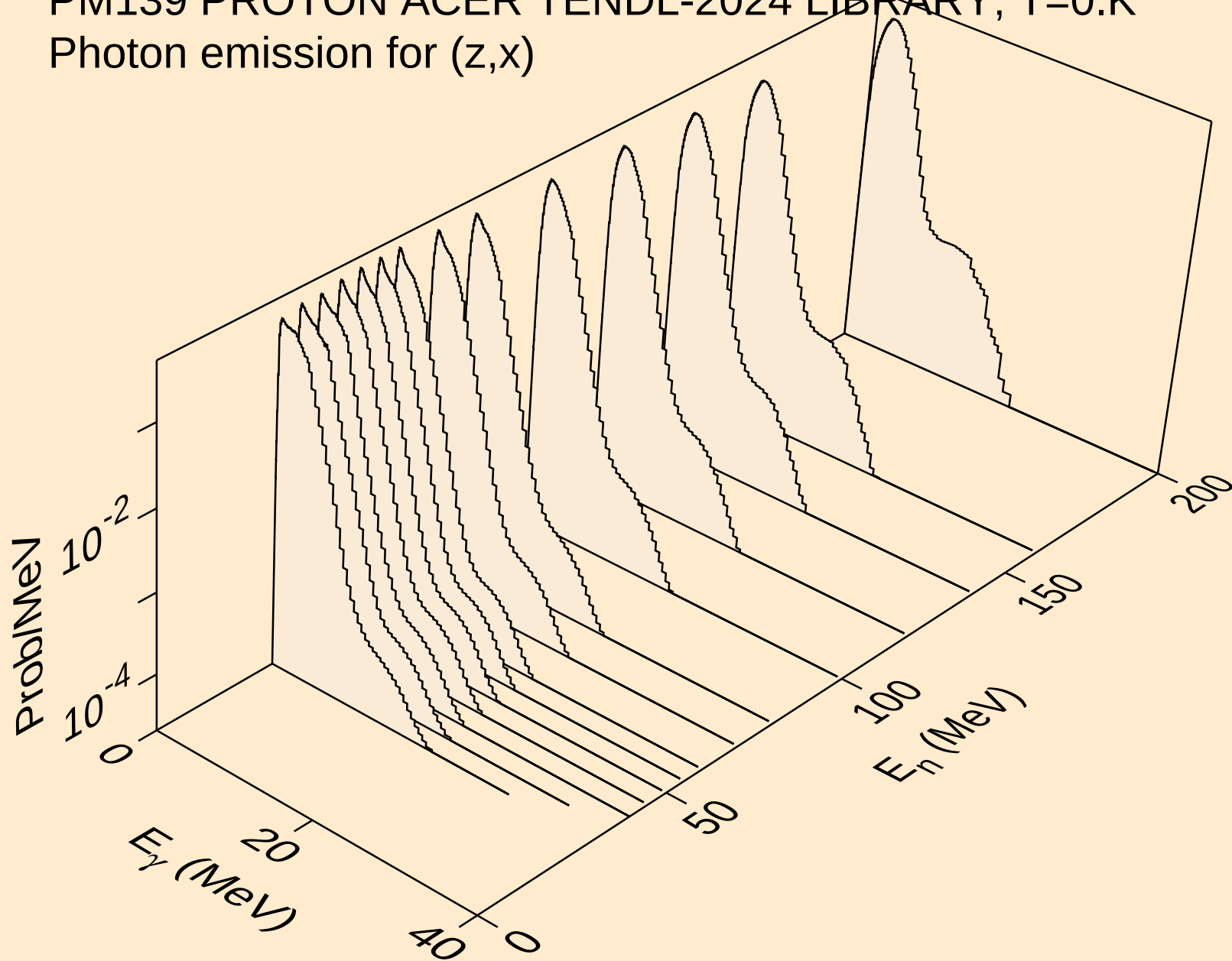
PM139 PROTON ACER TENDL-2024 LIBRARY; T=0.K
Proton emission for (p,pt)



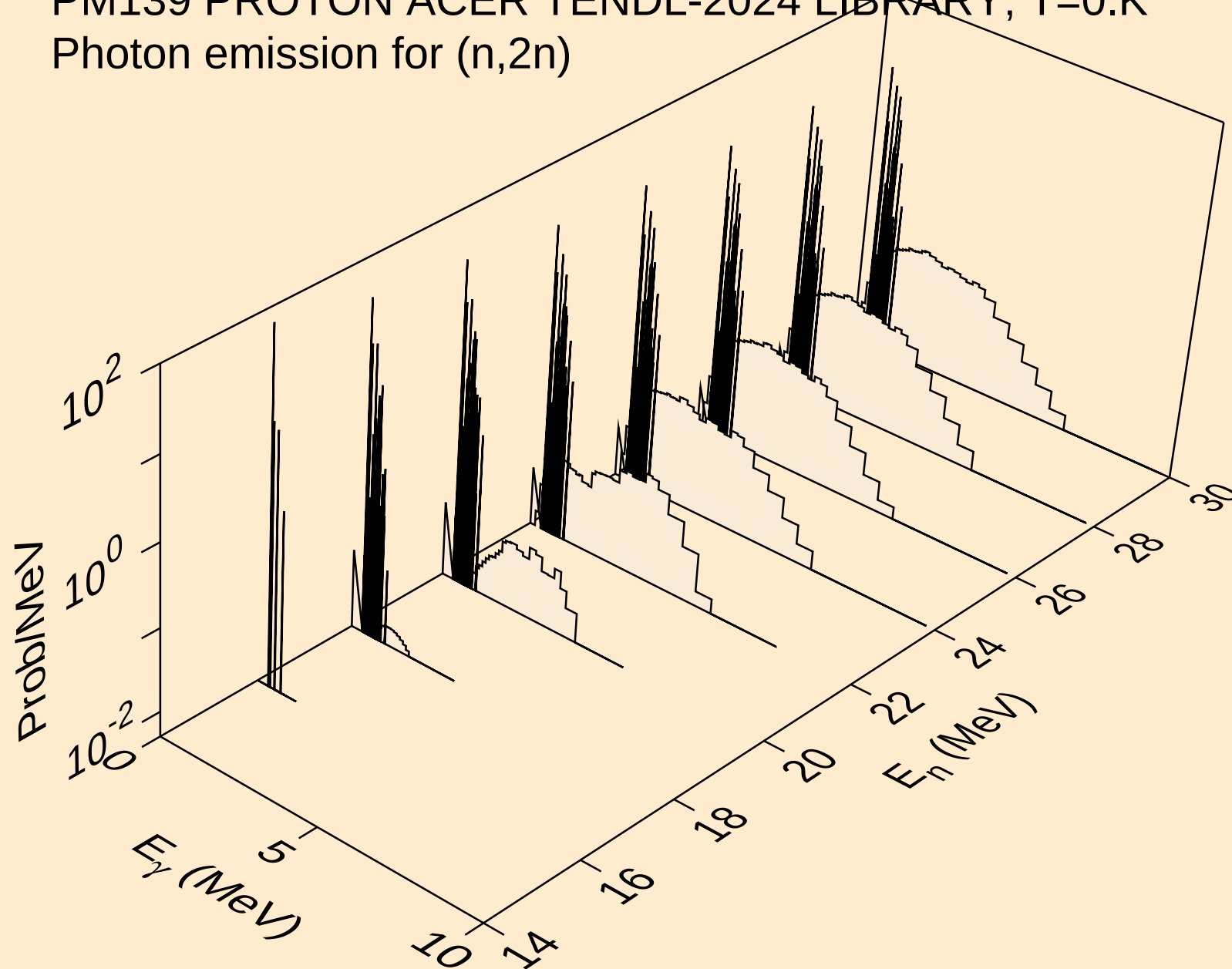
PM139 PROTON ACER TENDL-2024 LIBRARY; T=0.K
Photon emission for (z,n)



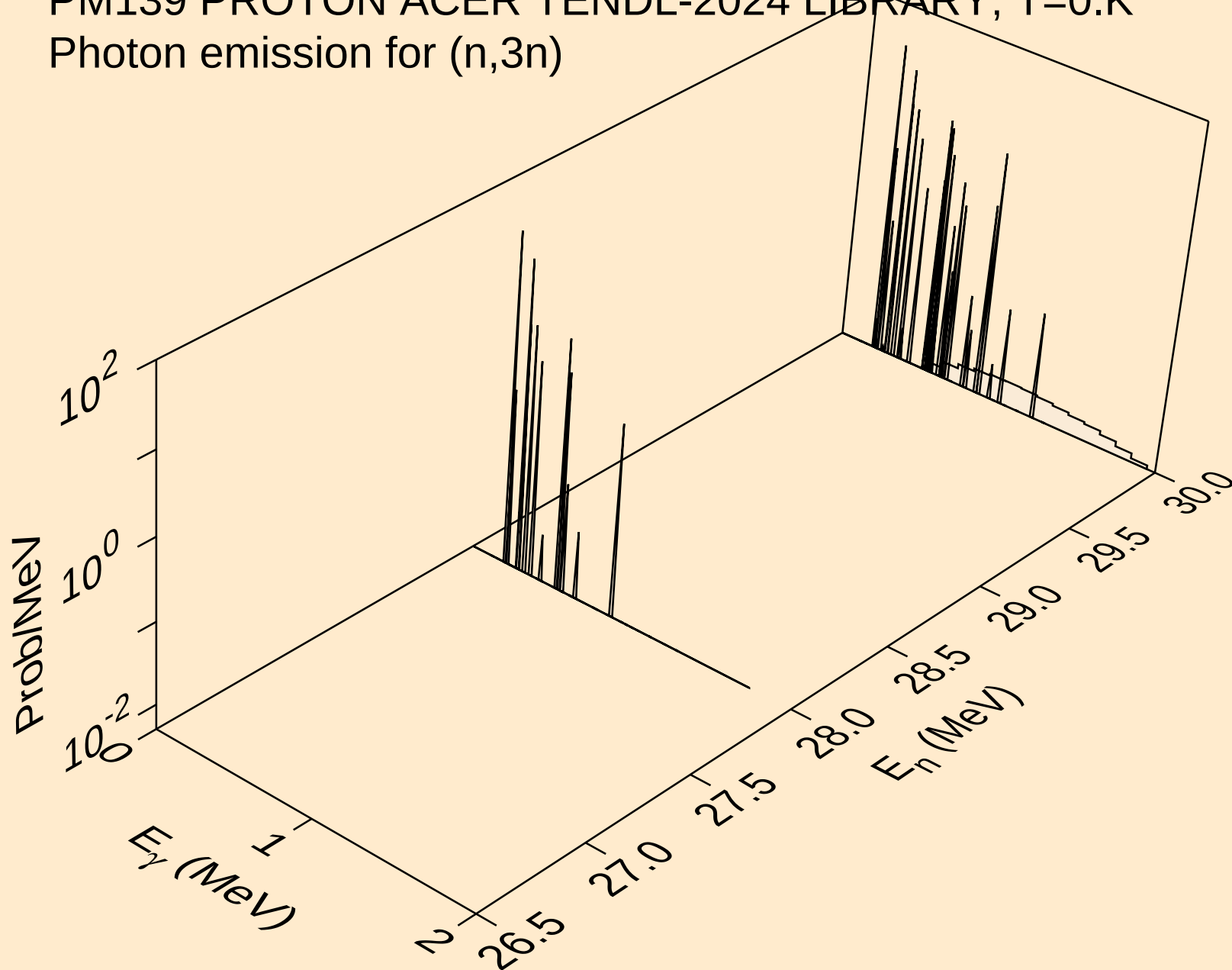
PM139 PROTON ACER TENDL-2024 LIBRARY; T=0.K
Photon emission for (z,x)



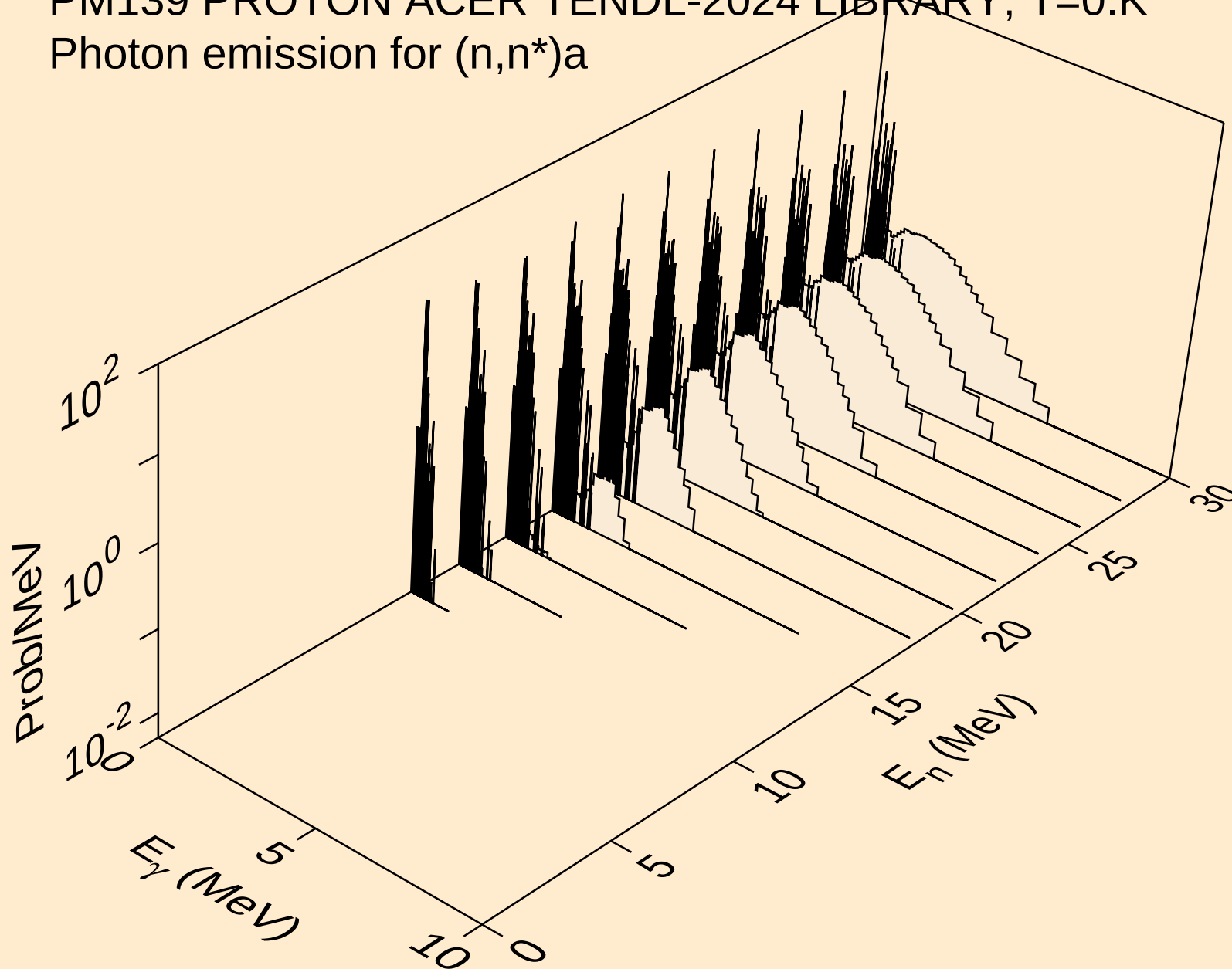
PM139 PROTON ACER TENDL-2024 LIBRARY; T=0.K
Photon emission for (n,2n)



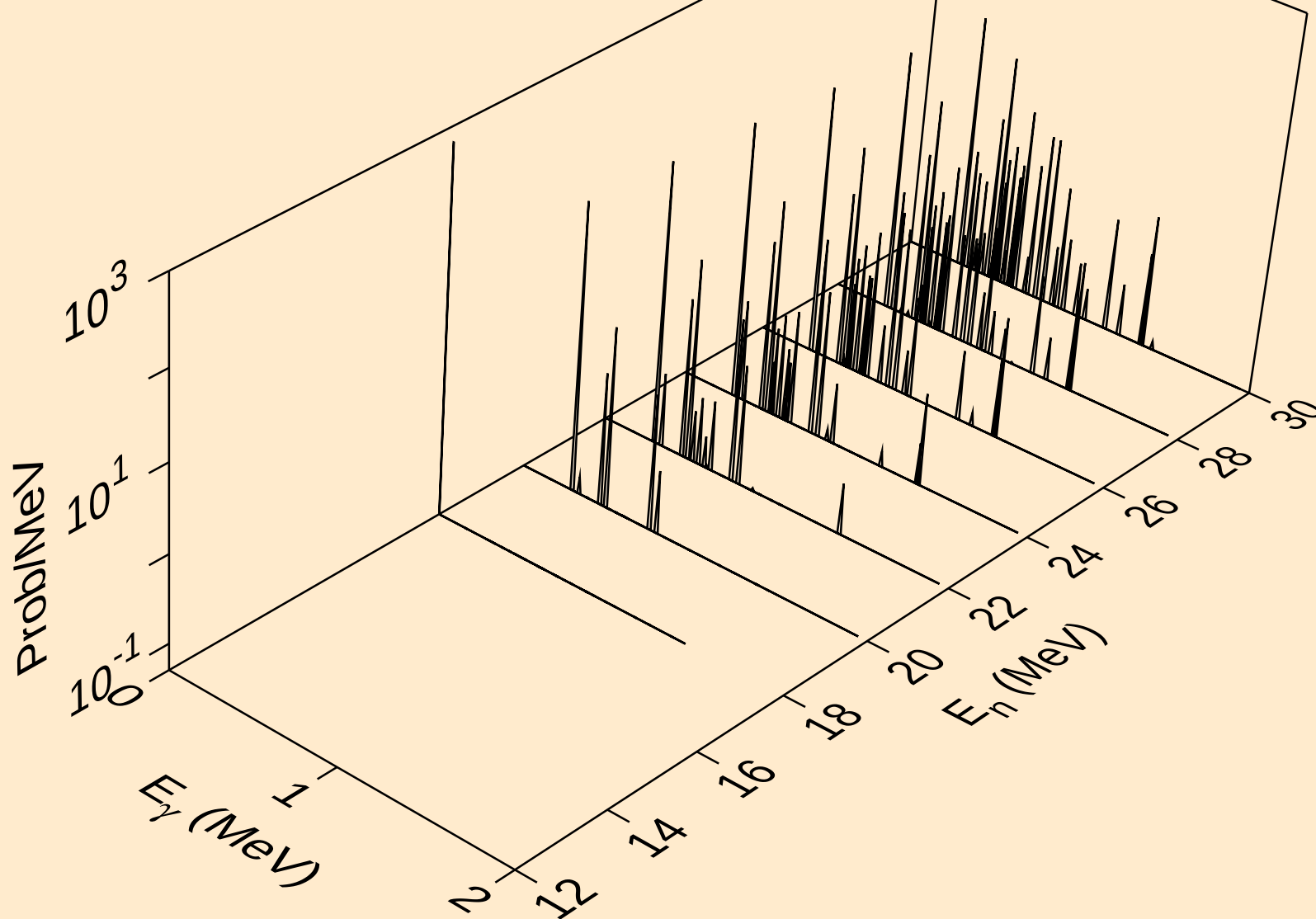
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Photon emission for (n,3n)



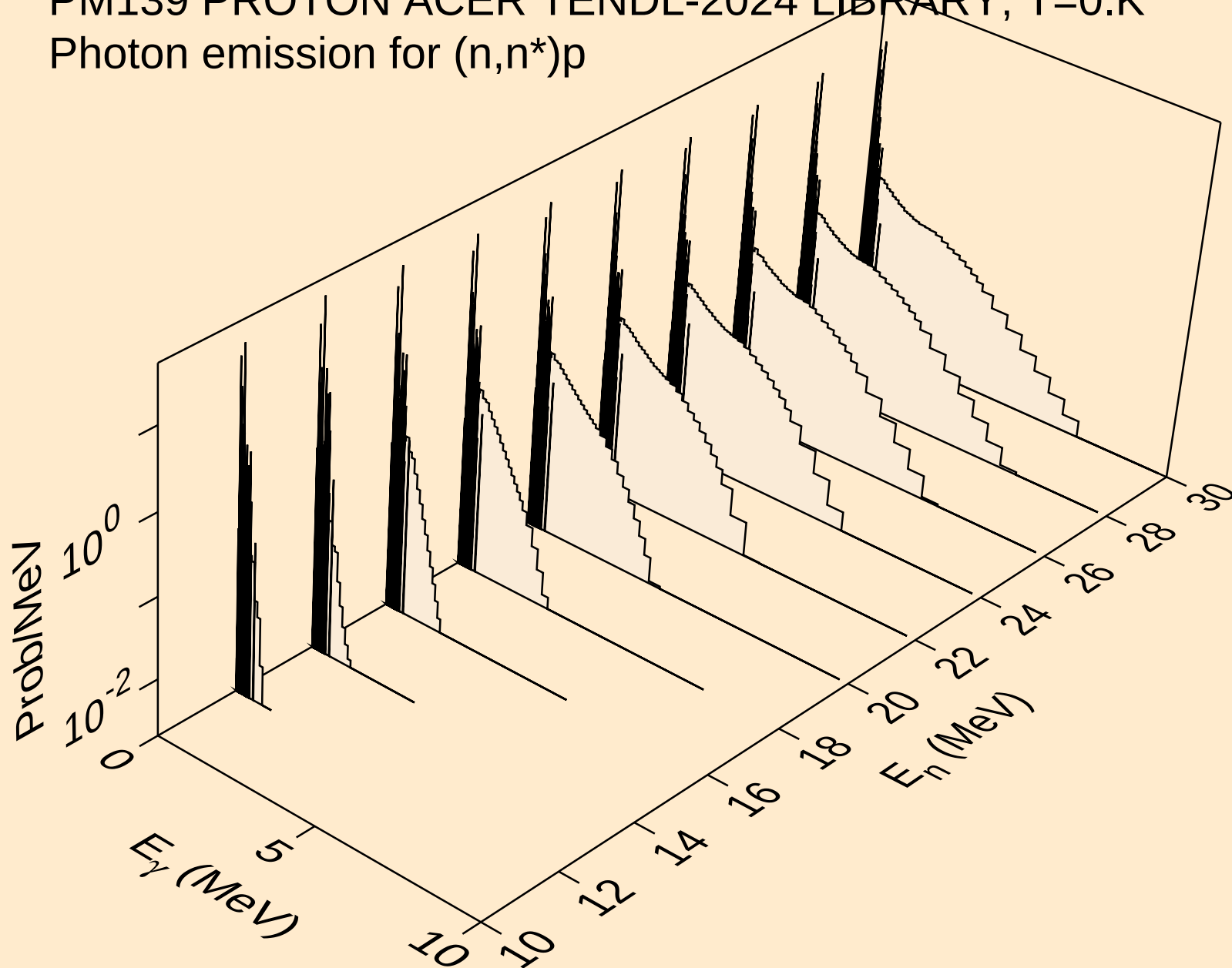
PM139 PROTON ACER TENDL-2024 LIBRARY; T=0.K
Photon emission for (n,n*)a



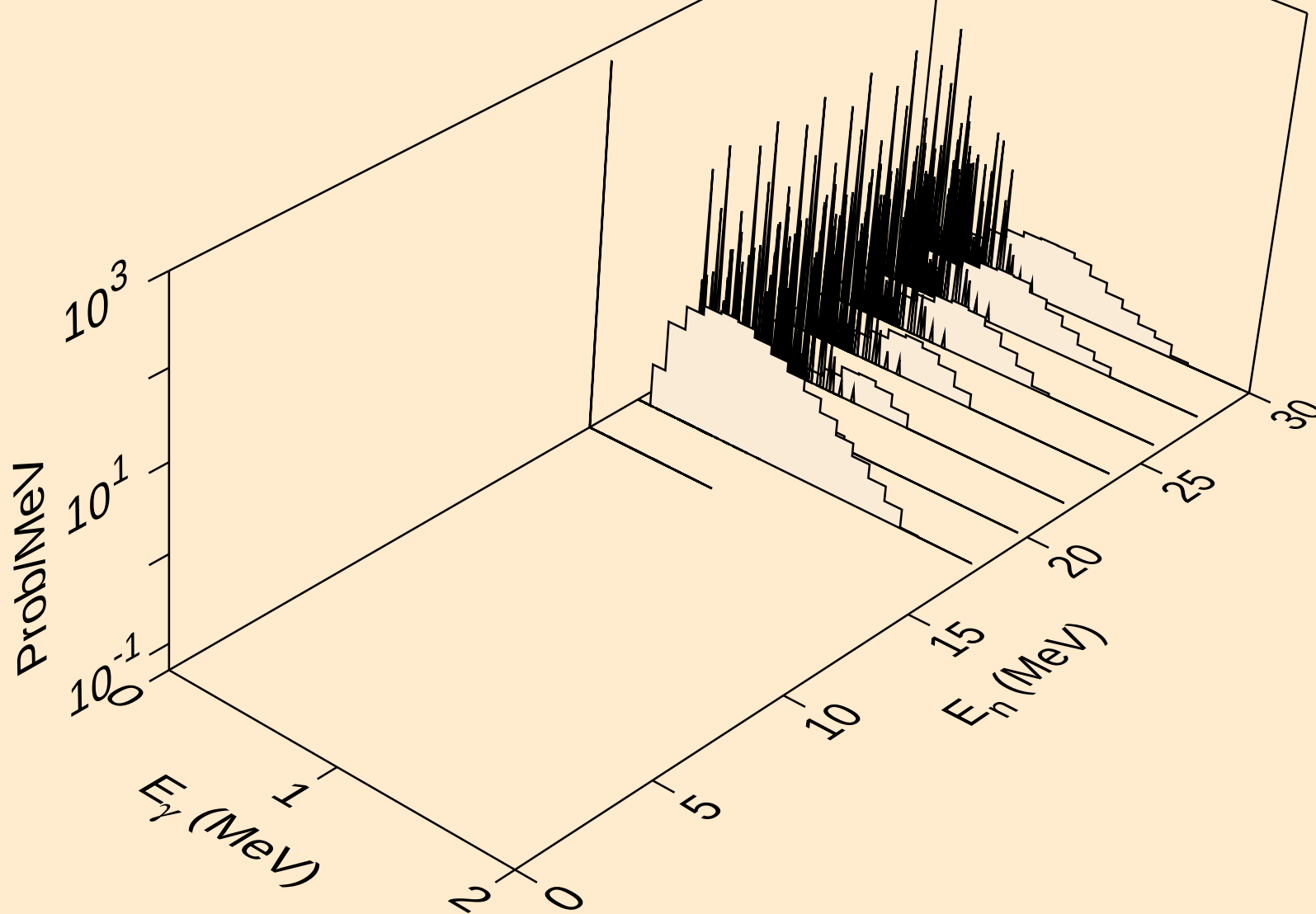
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Photon emission for (n,2n)a



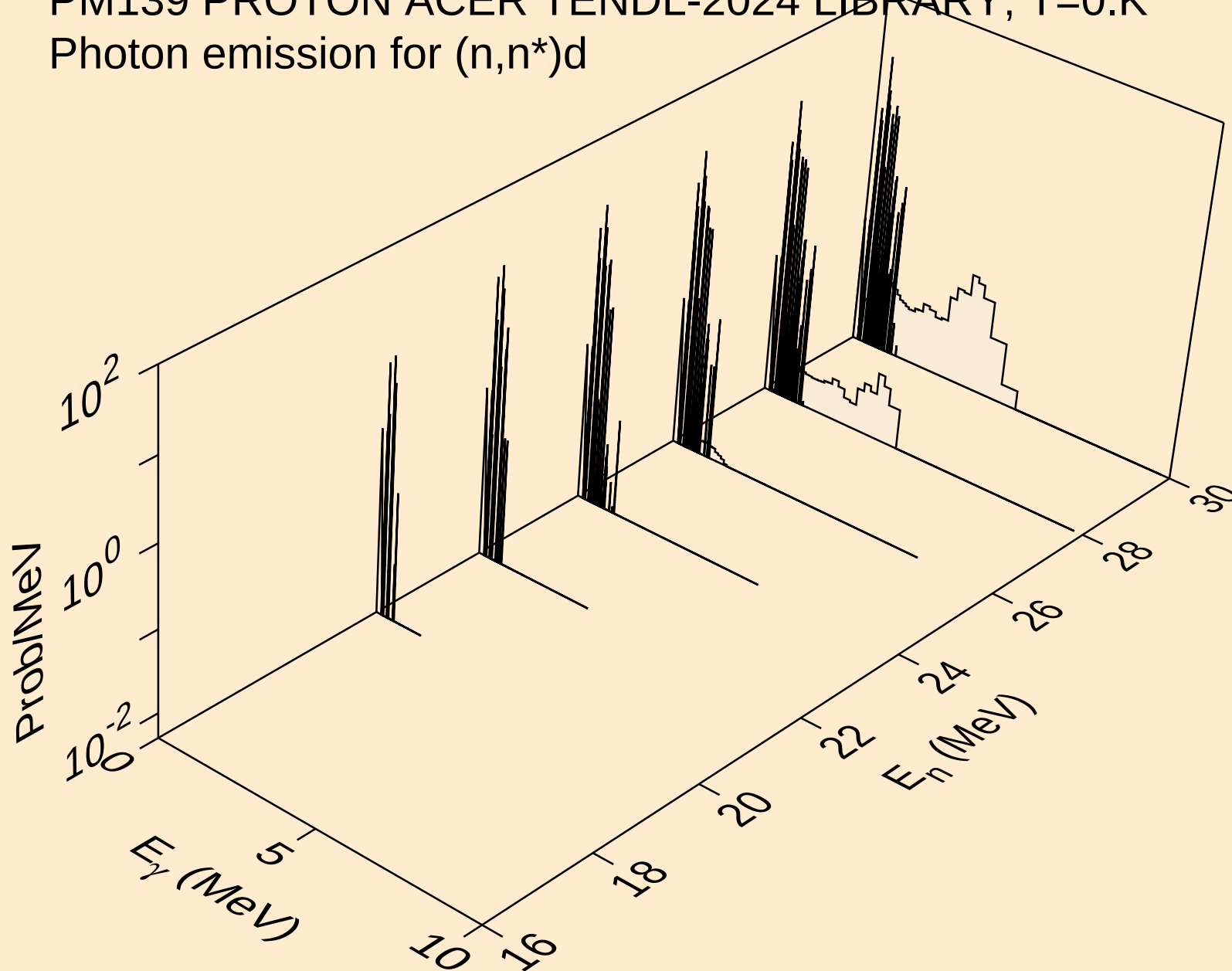
PM139 PROTON ACER TENDL-2024 LIBRARY; T=0.K
Photon emission for (n,n*)p



PM139 PROTON ACER TENDL-2024 LIBRARY; T=0.K
Photon emission for (n,n*)2a

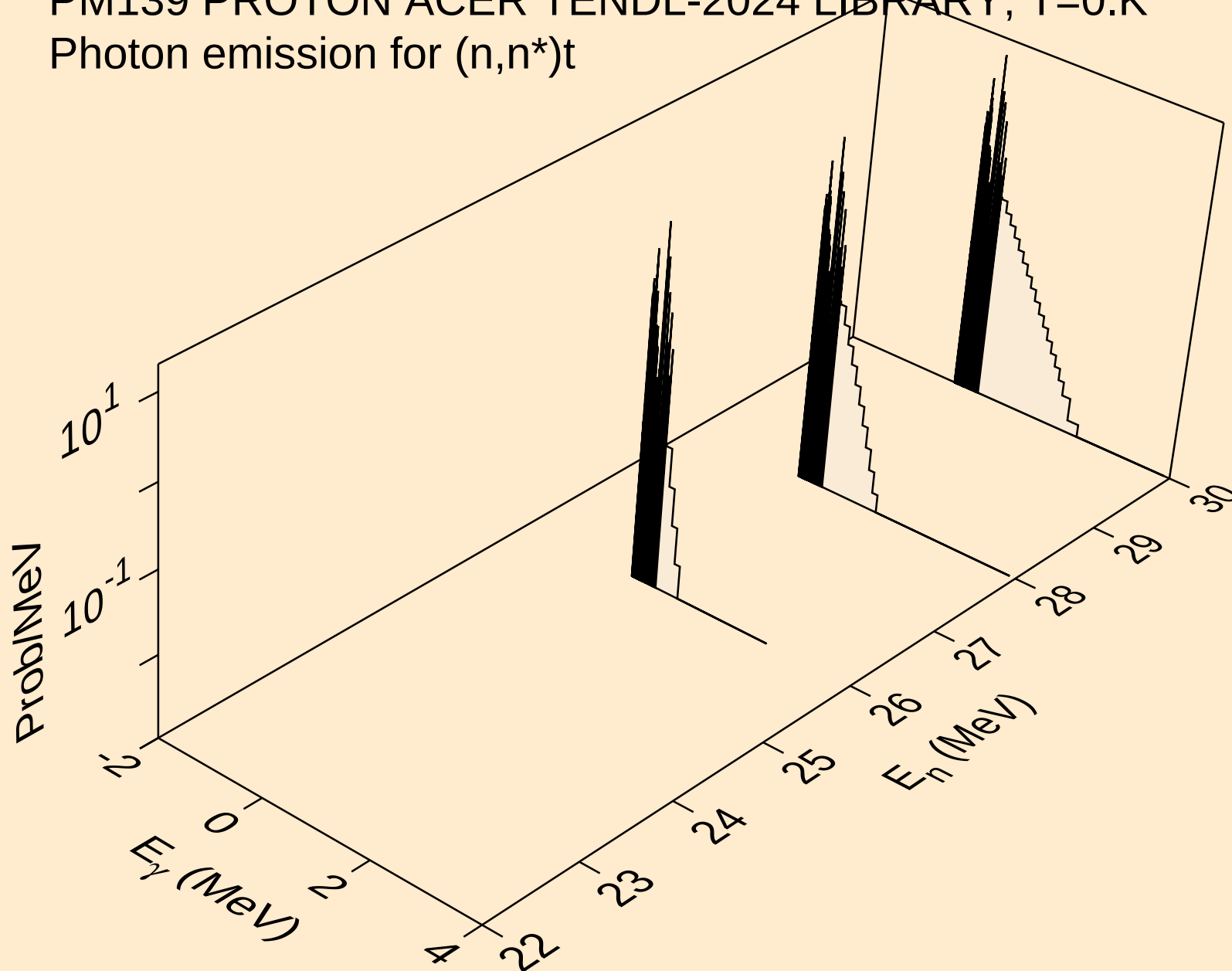


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Photon emission for (n,n*)d

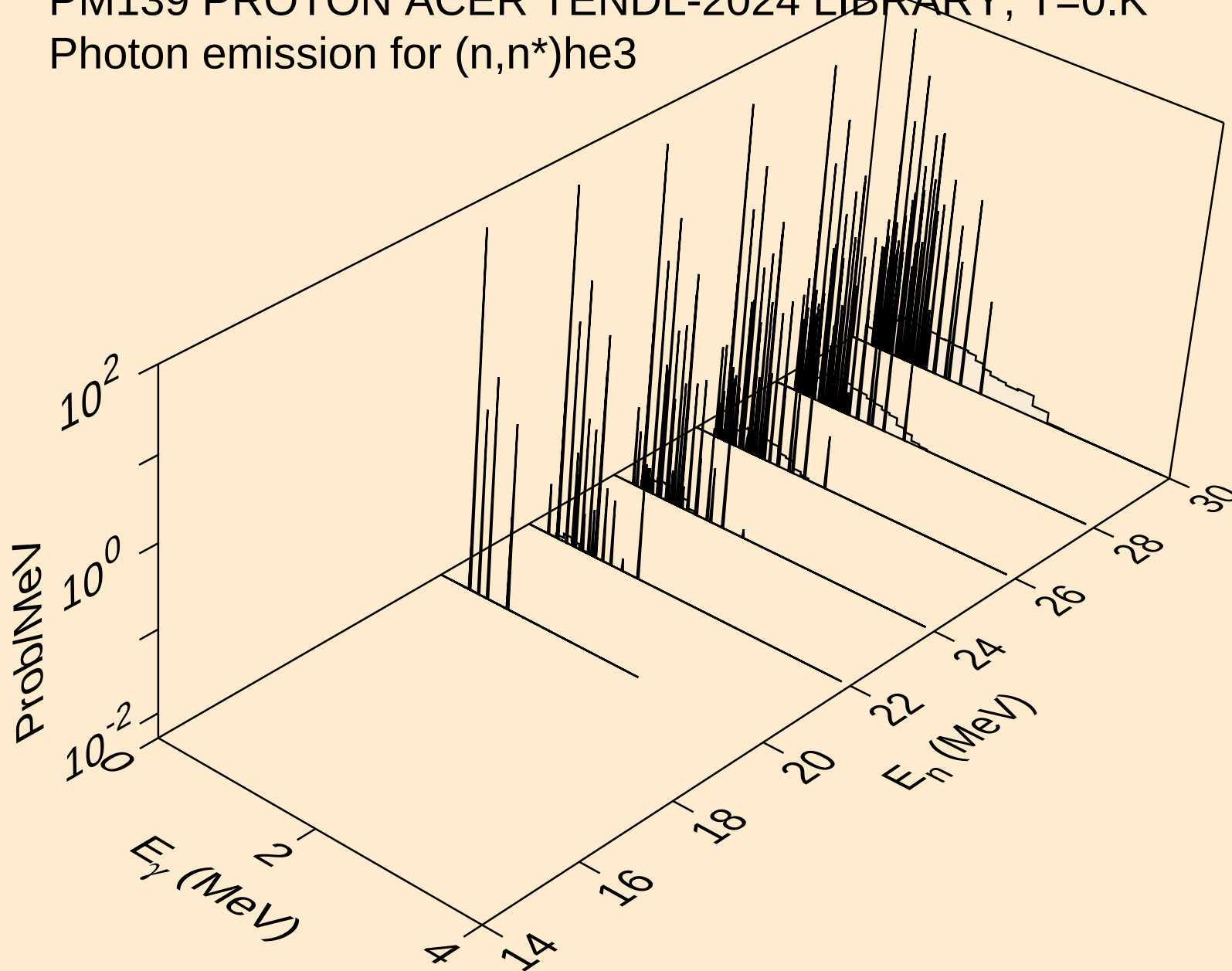


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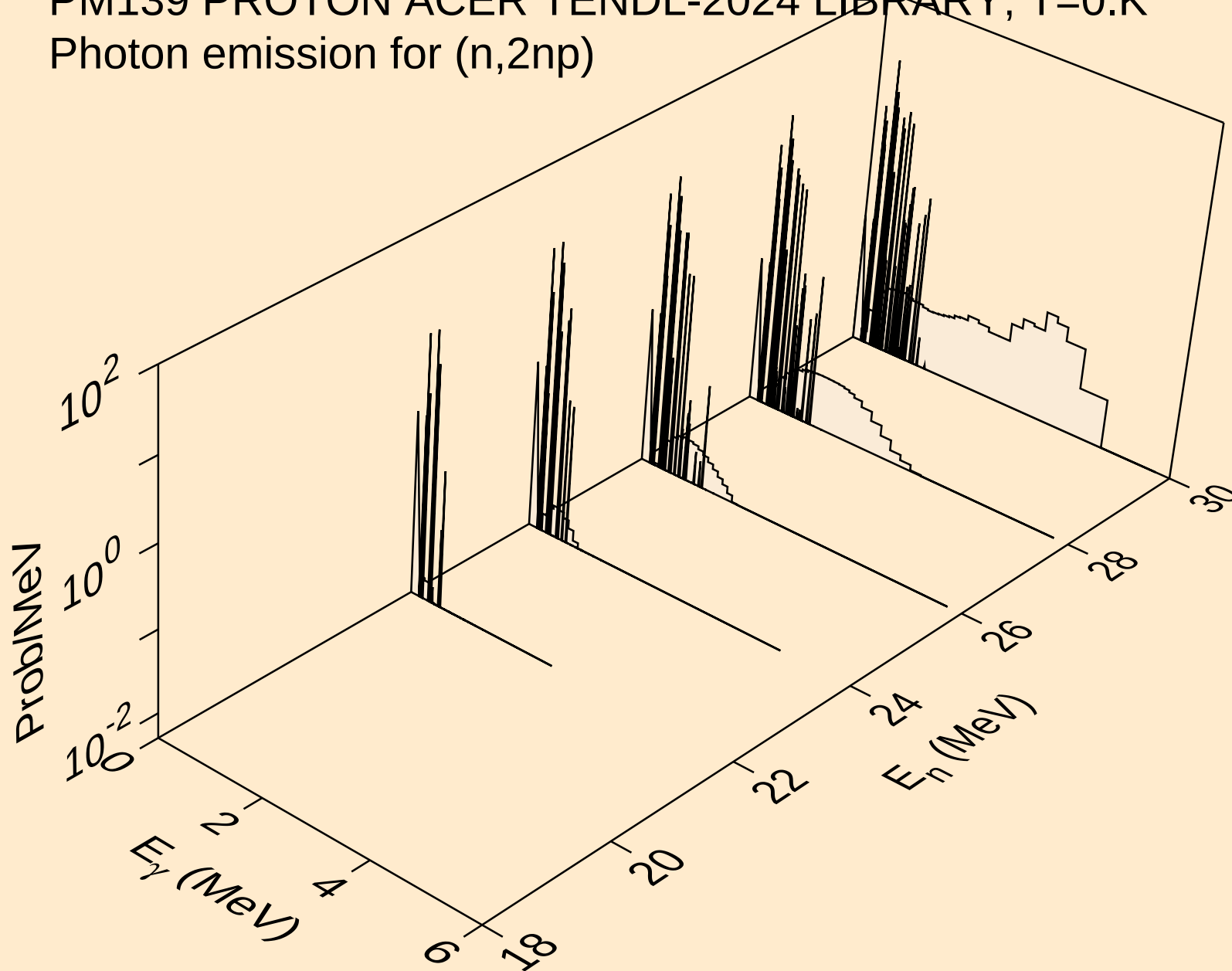
Photon emission for (n,n*)t



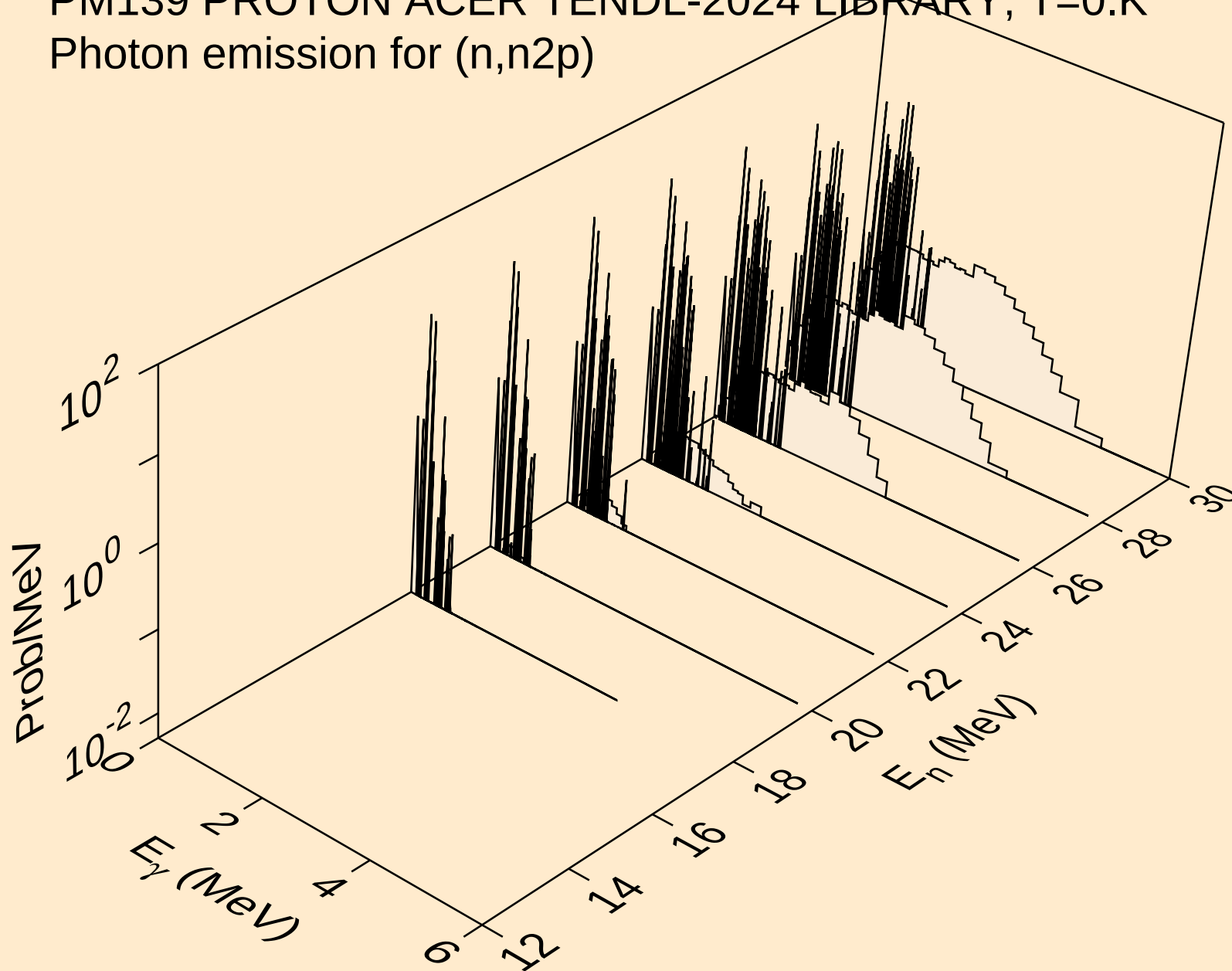
PM139 PROTON ACER TENDL-2024 LIBRARY; T=0.K
Photon emission for (n,n*)he3



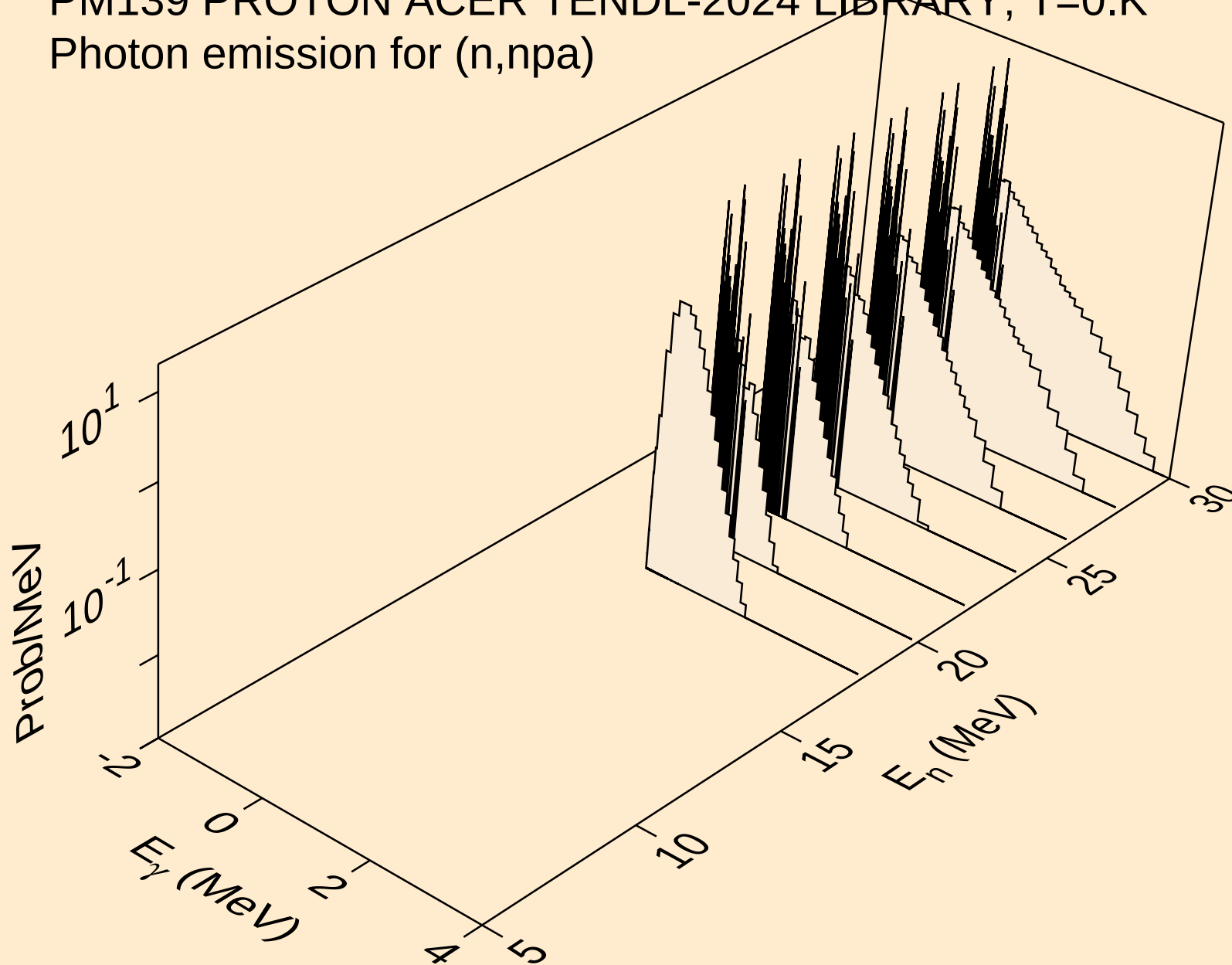
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Photon emission for (n,2np)



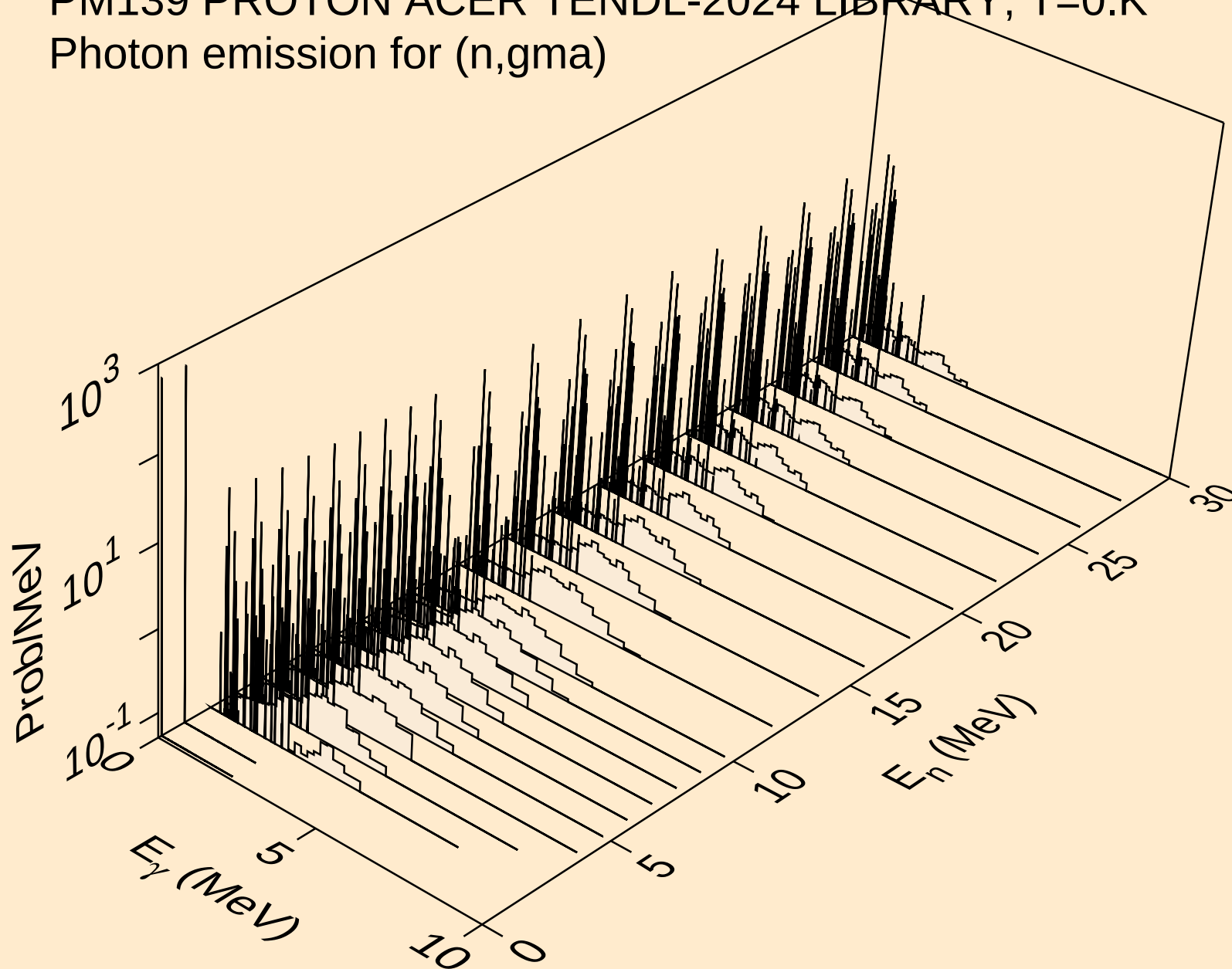
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Photon emission for (n,n2p)



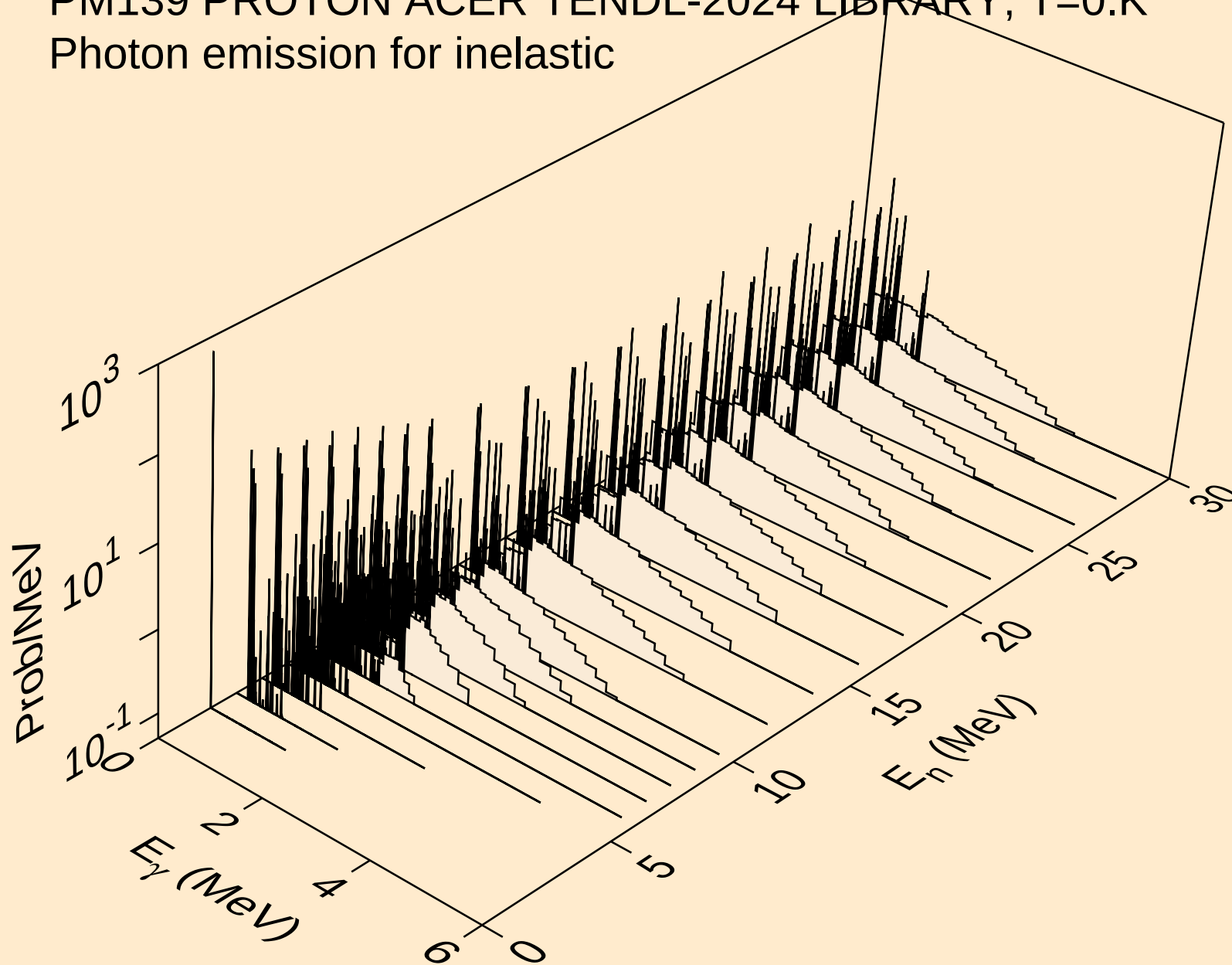
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Photon emission for (n,npa)



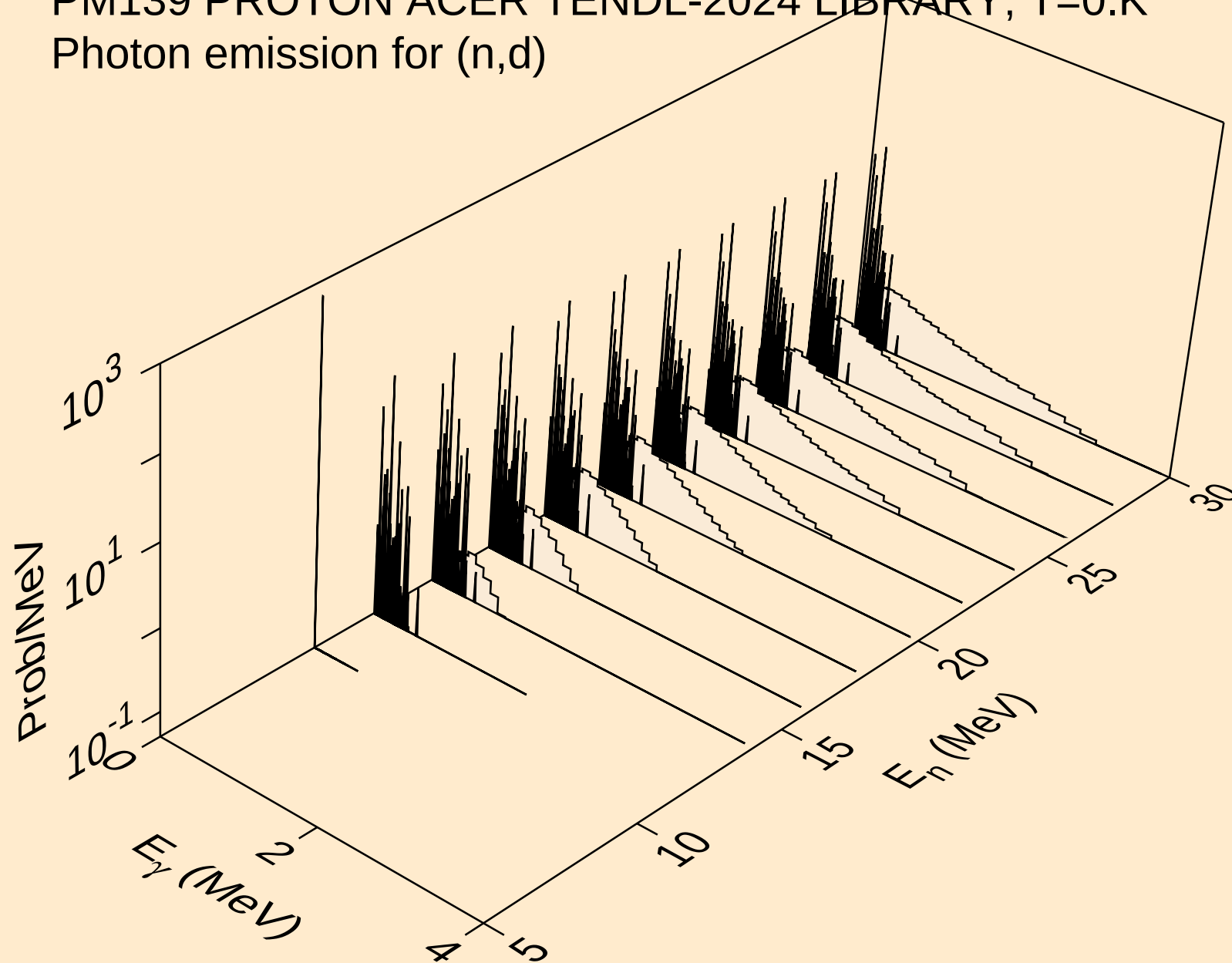
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Photon emission for (n,gma)



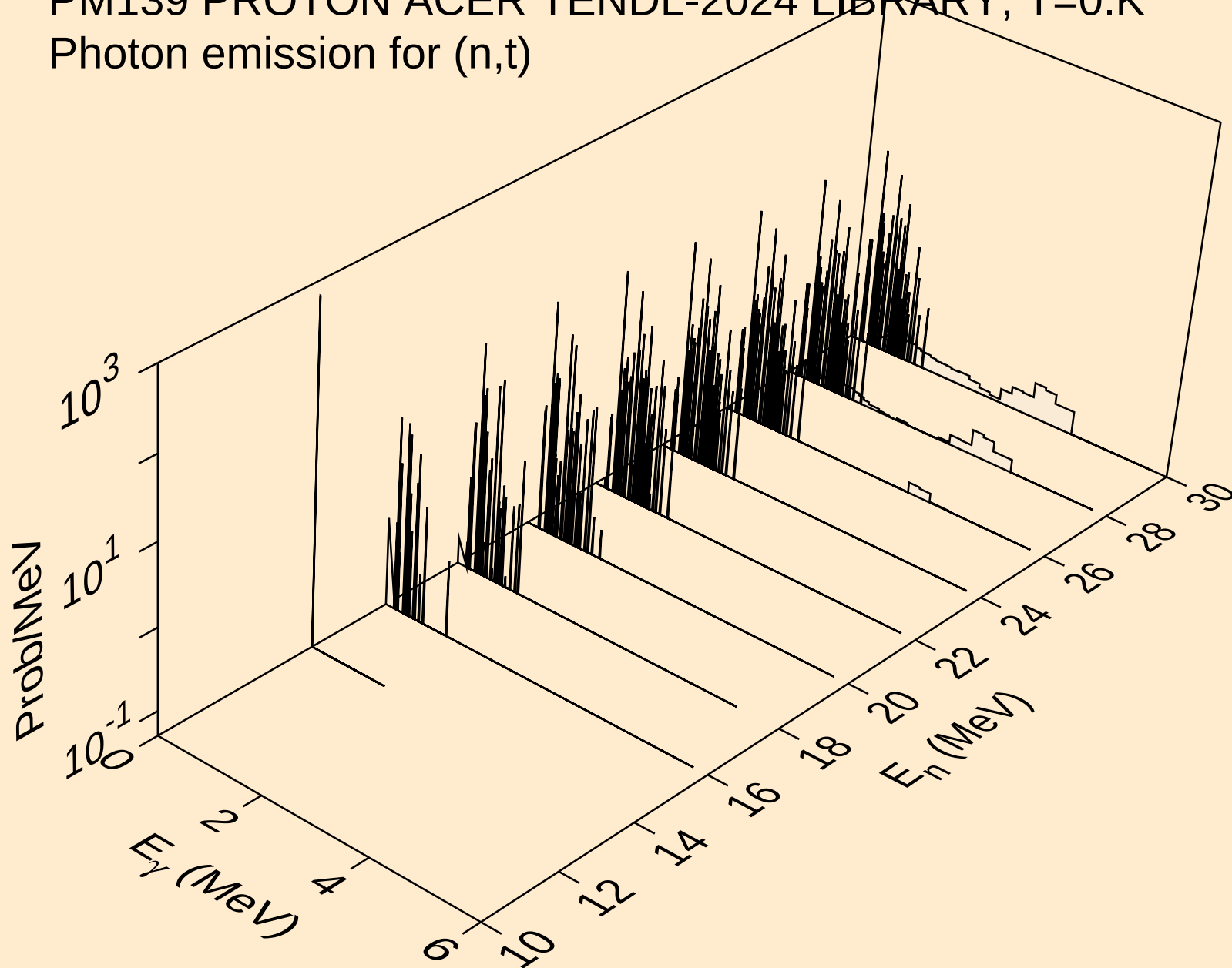
PM139 PROTON ACER TENDL-2024 LIBRARY; T=0.K
Photon emission for inelastic



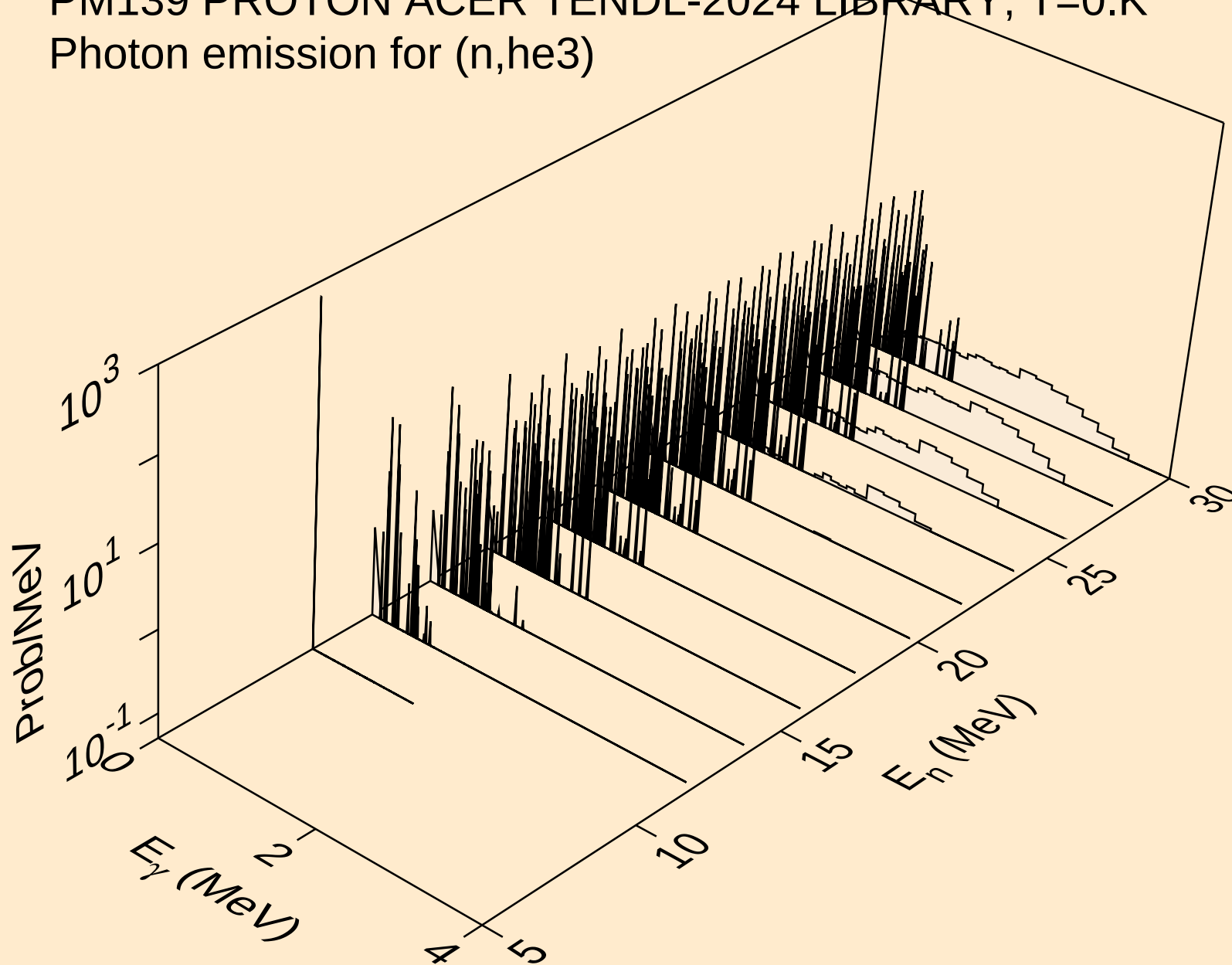
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Photon emission for (n,d)



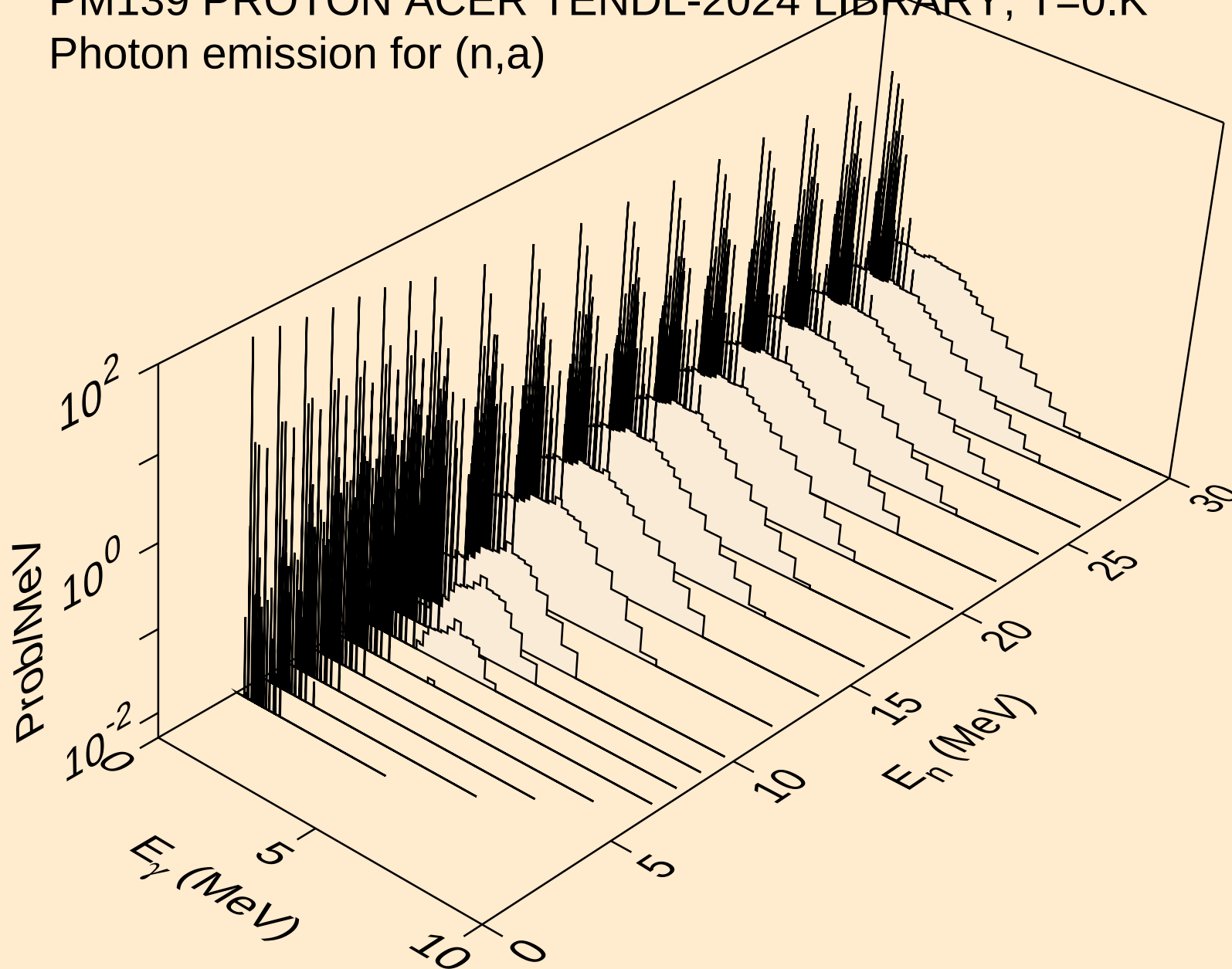
PM139 PROTON ACER TENDL-2024 LIBRARY; T=0.K
Photon emission for (n,t)



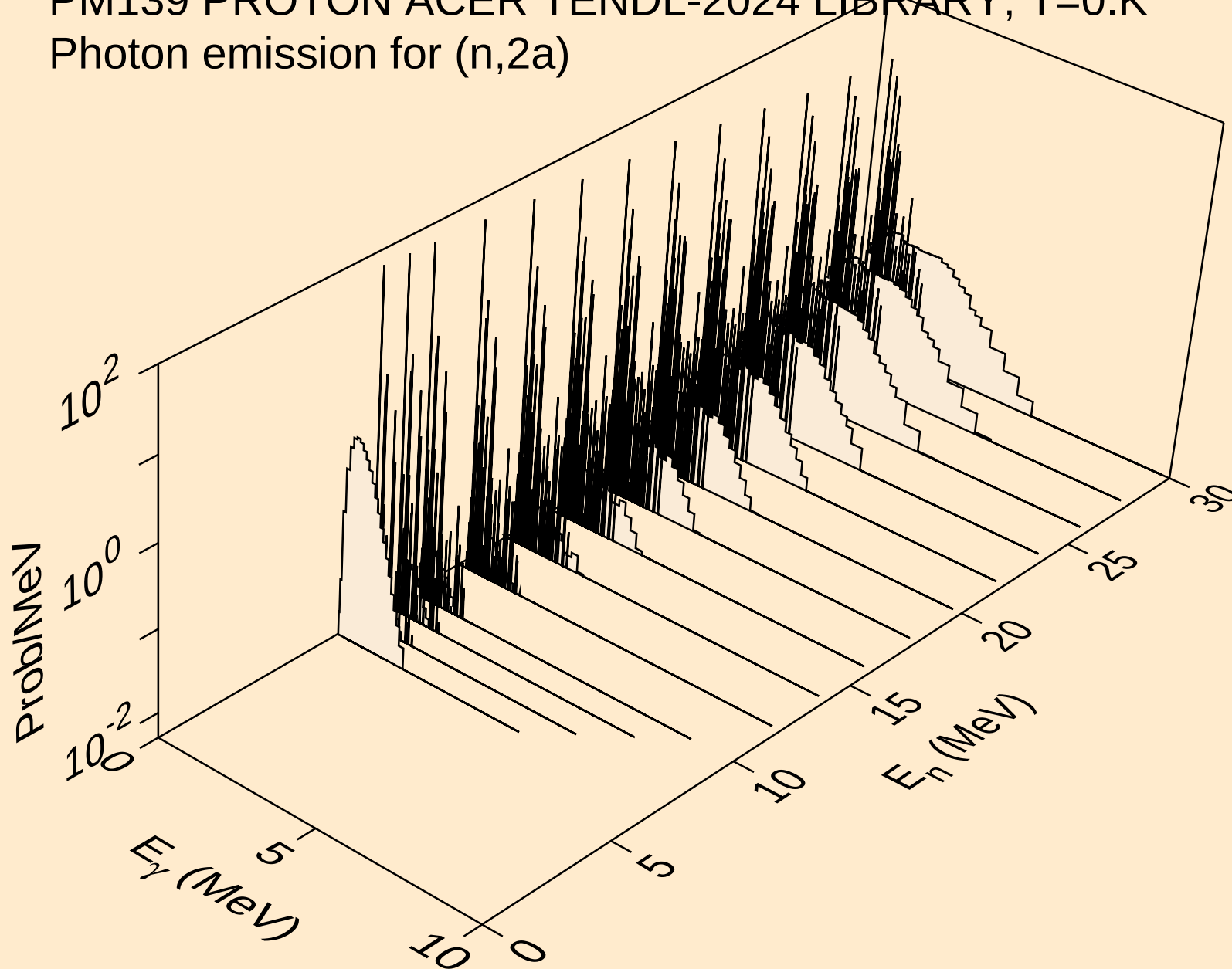
PM139 PROTON ACER TENDL-2024 LIBRARY; T=0.K
Photon emission for (n,he3)



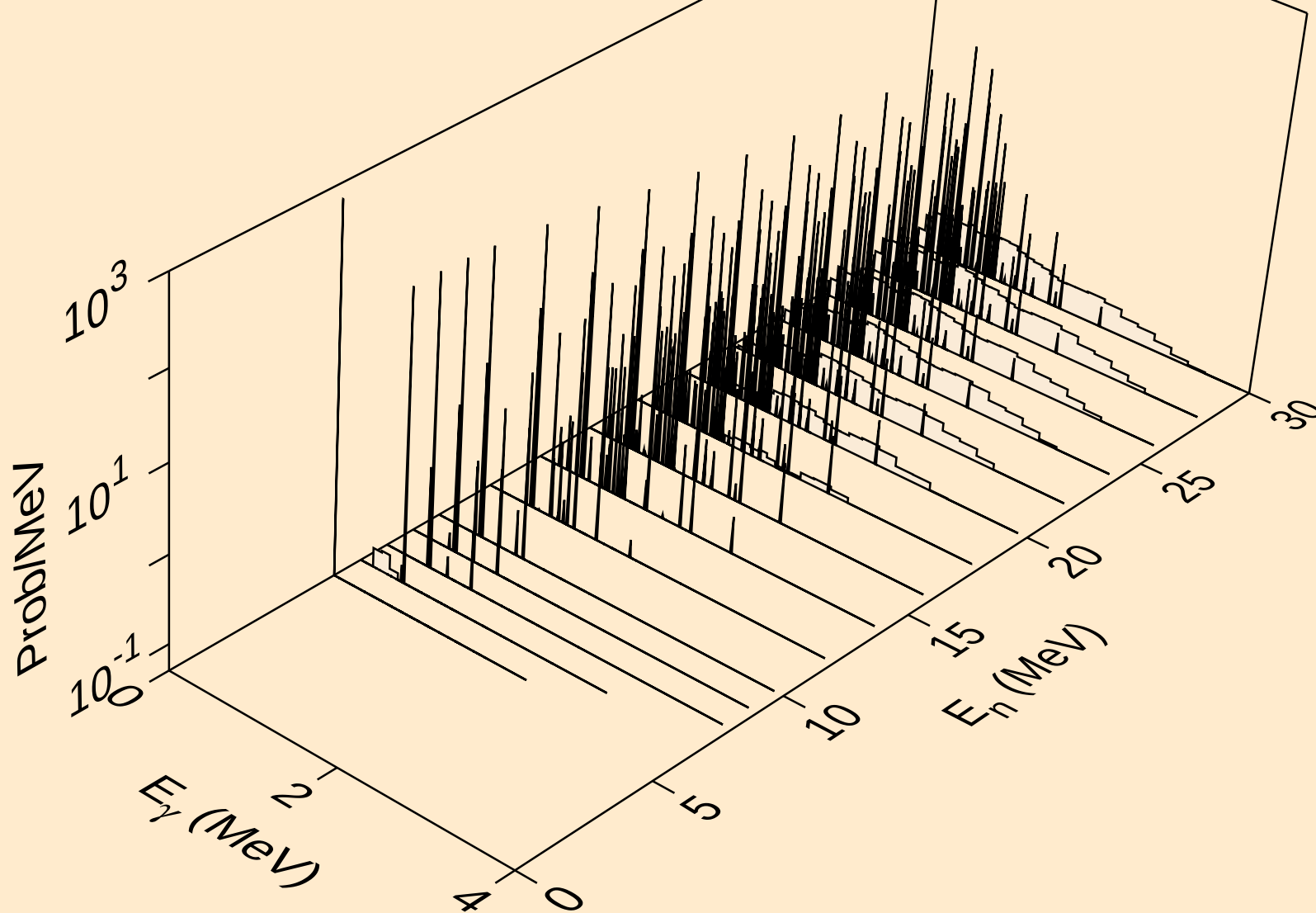
PM139 PROTON ACER TENDL-2024 LIBRARY; T=0.K
Photon emission for (n,a)



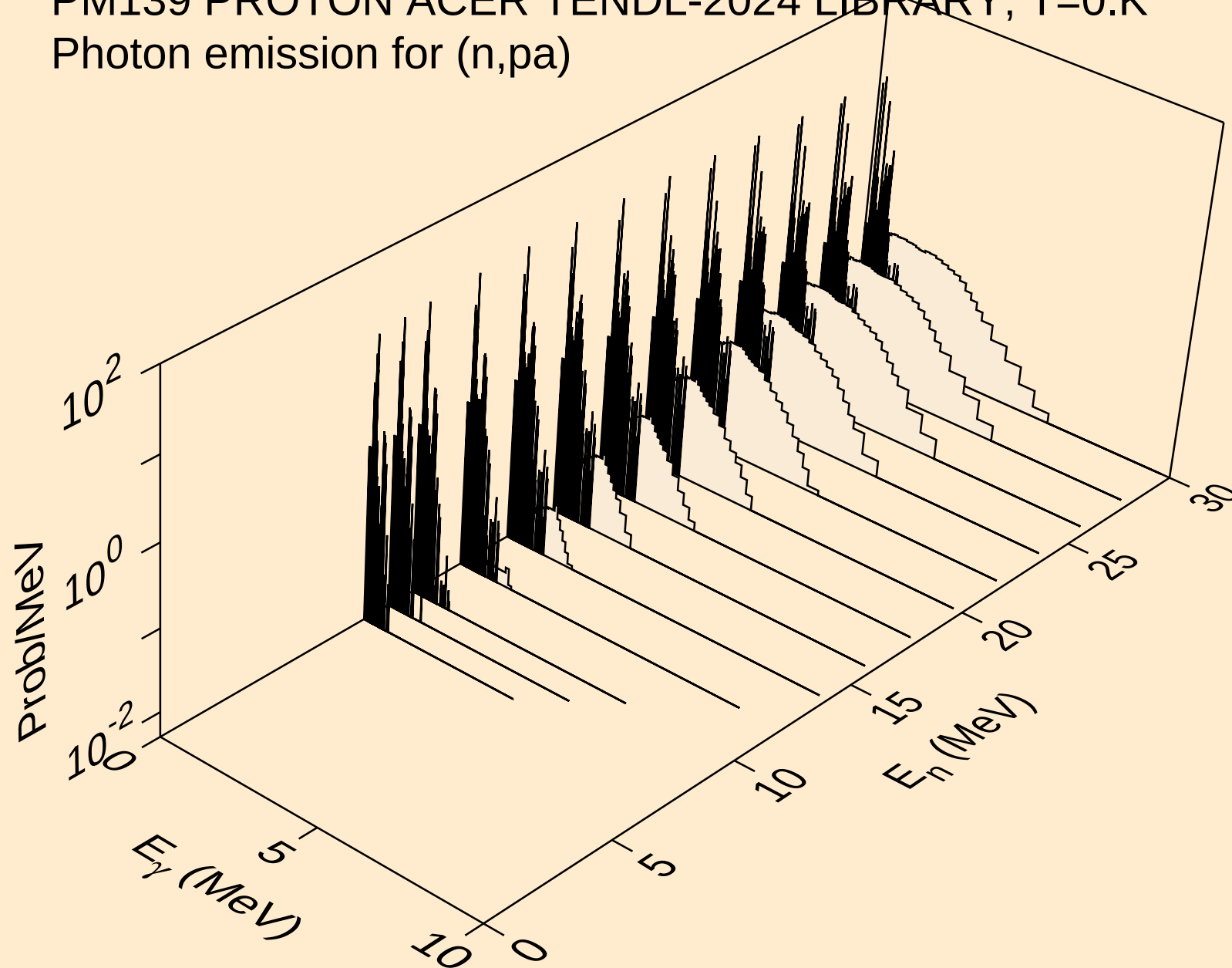
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Photon emission for (n,2a)



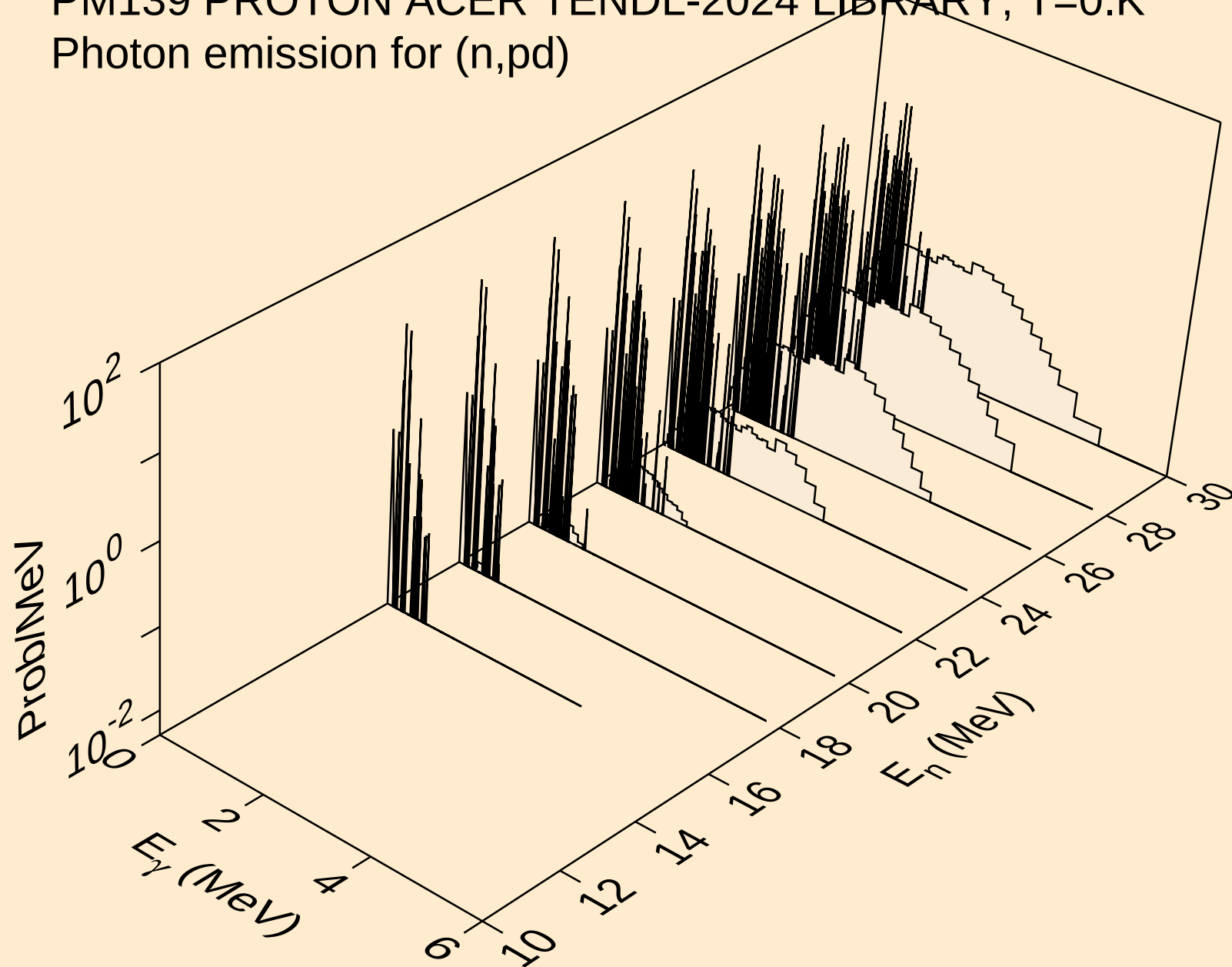
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Photon emission for (n,2p)



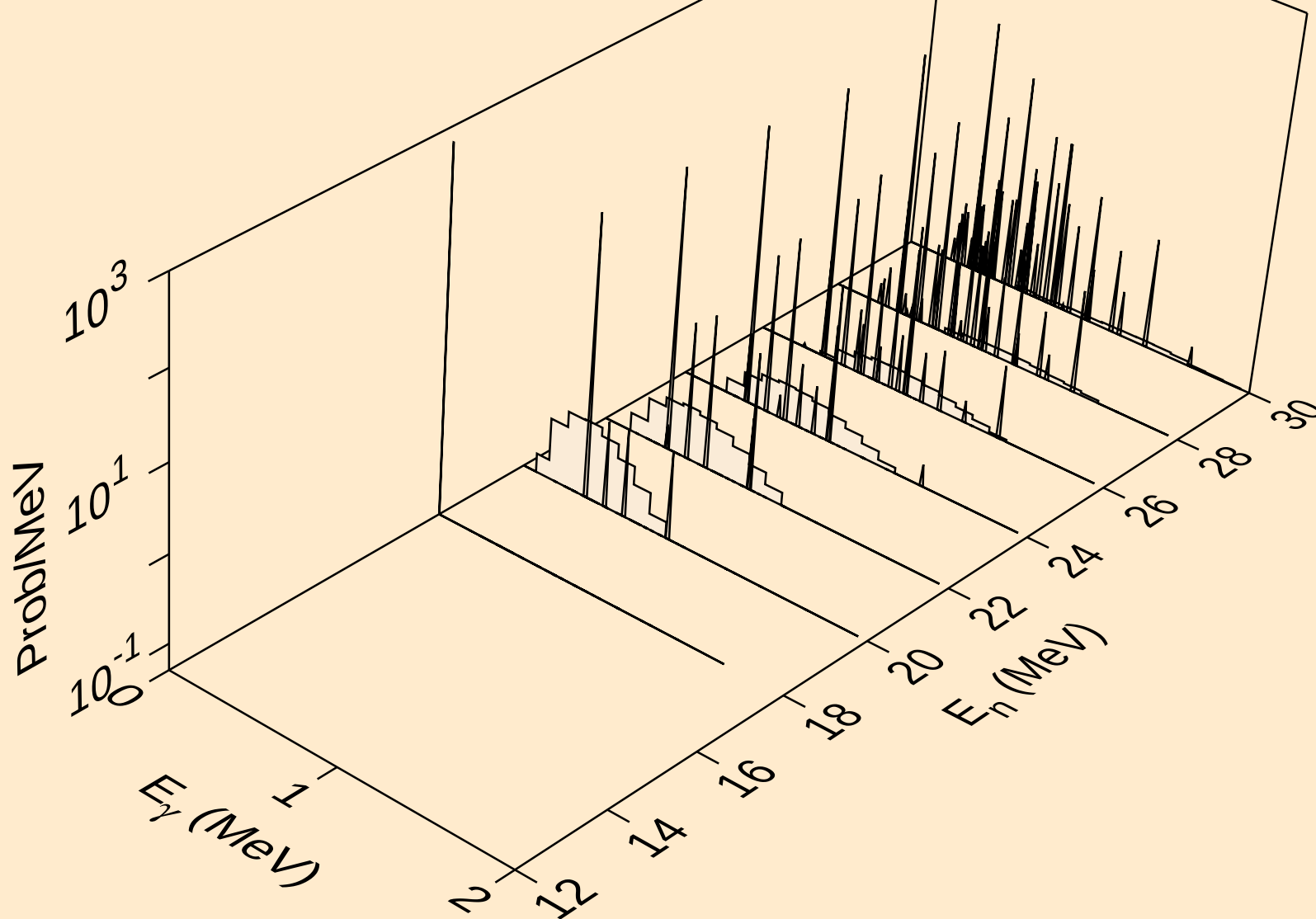
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Photon emission for (n,pa)



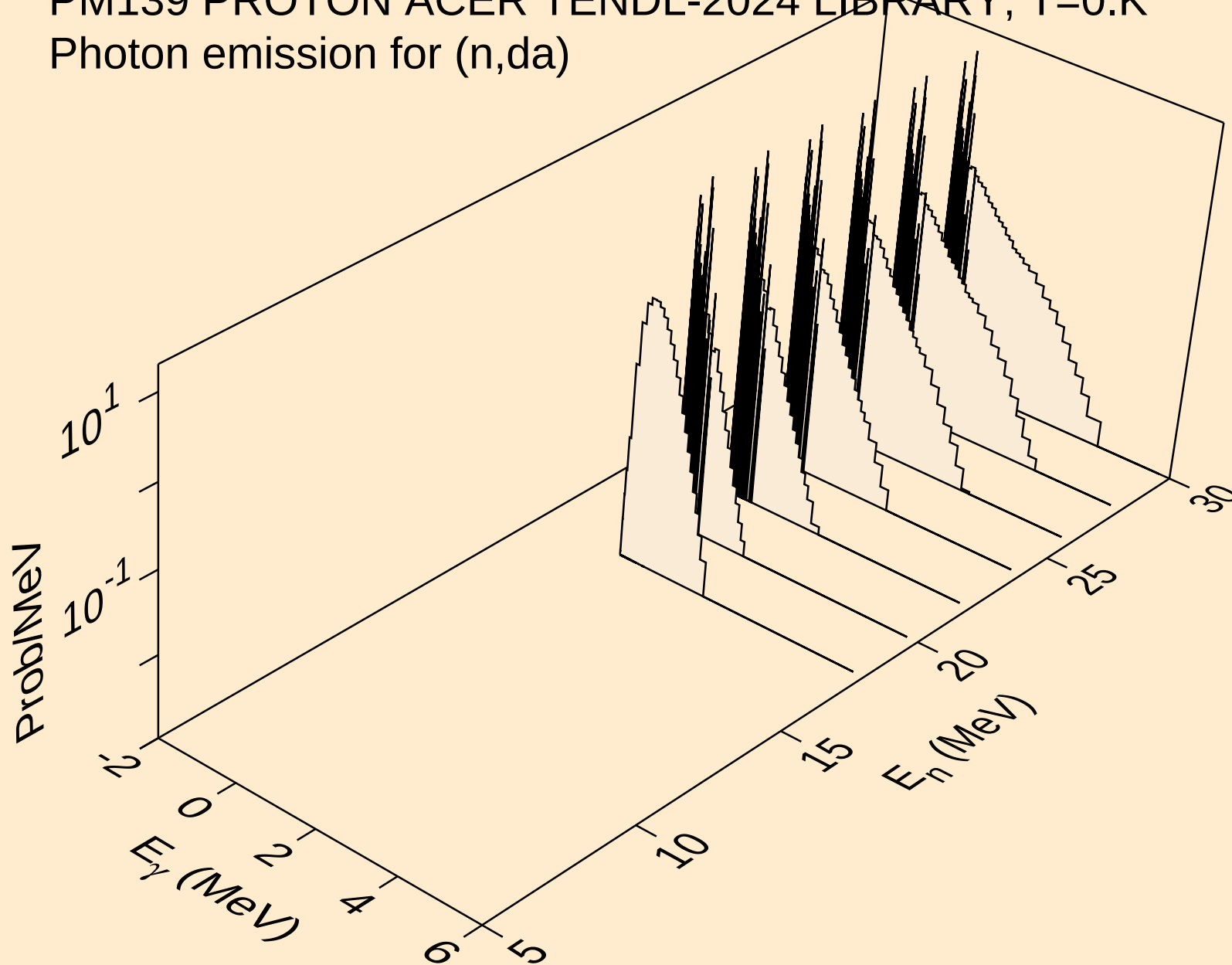
PM139 PROTON ACER TENDL-2024 LIBRARY; T=0.K
Photon emission for (n,pd)



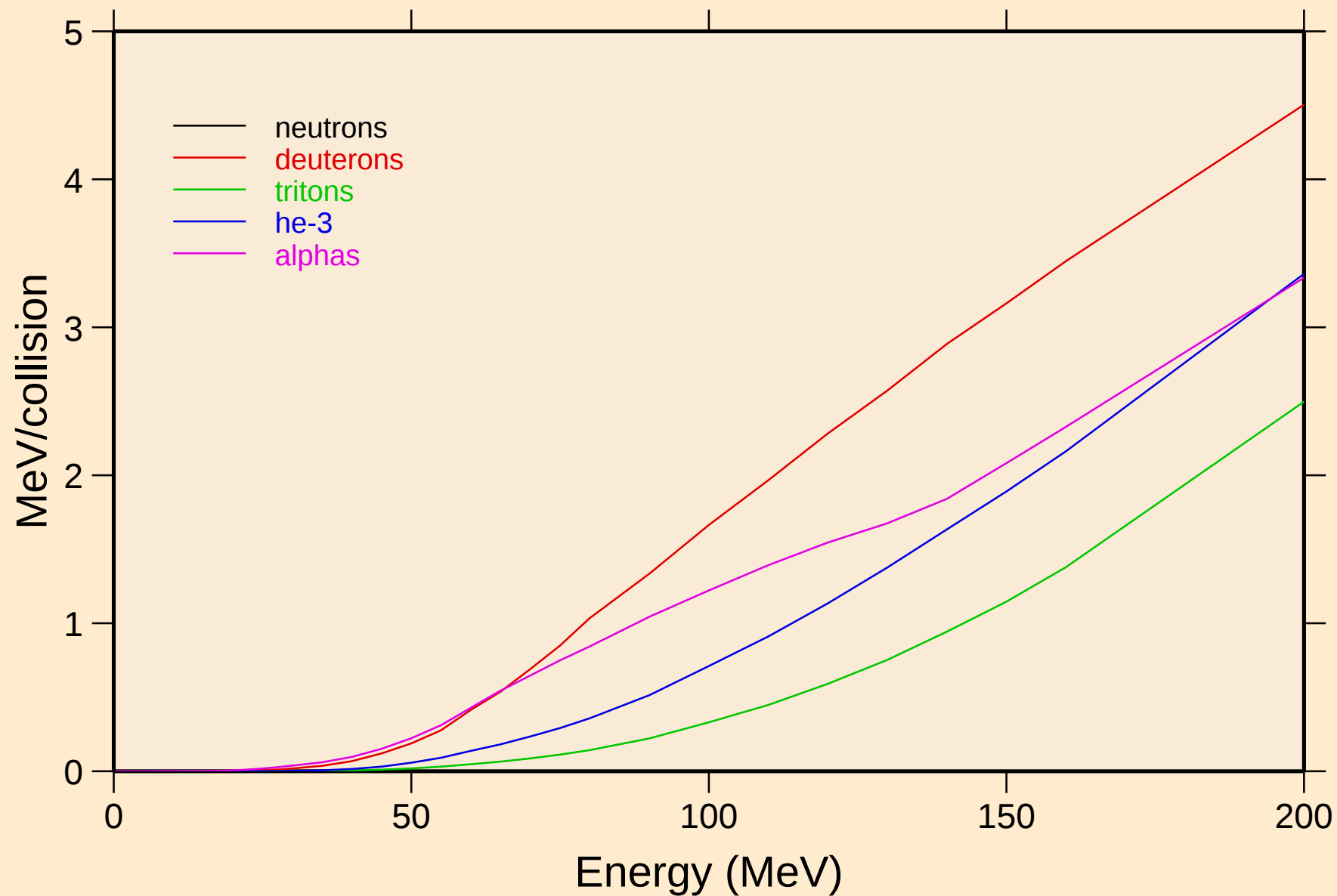
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Photon emission for (n,pt)



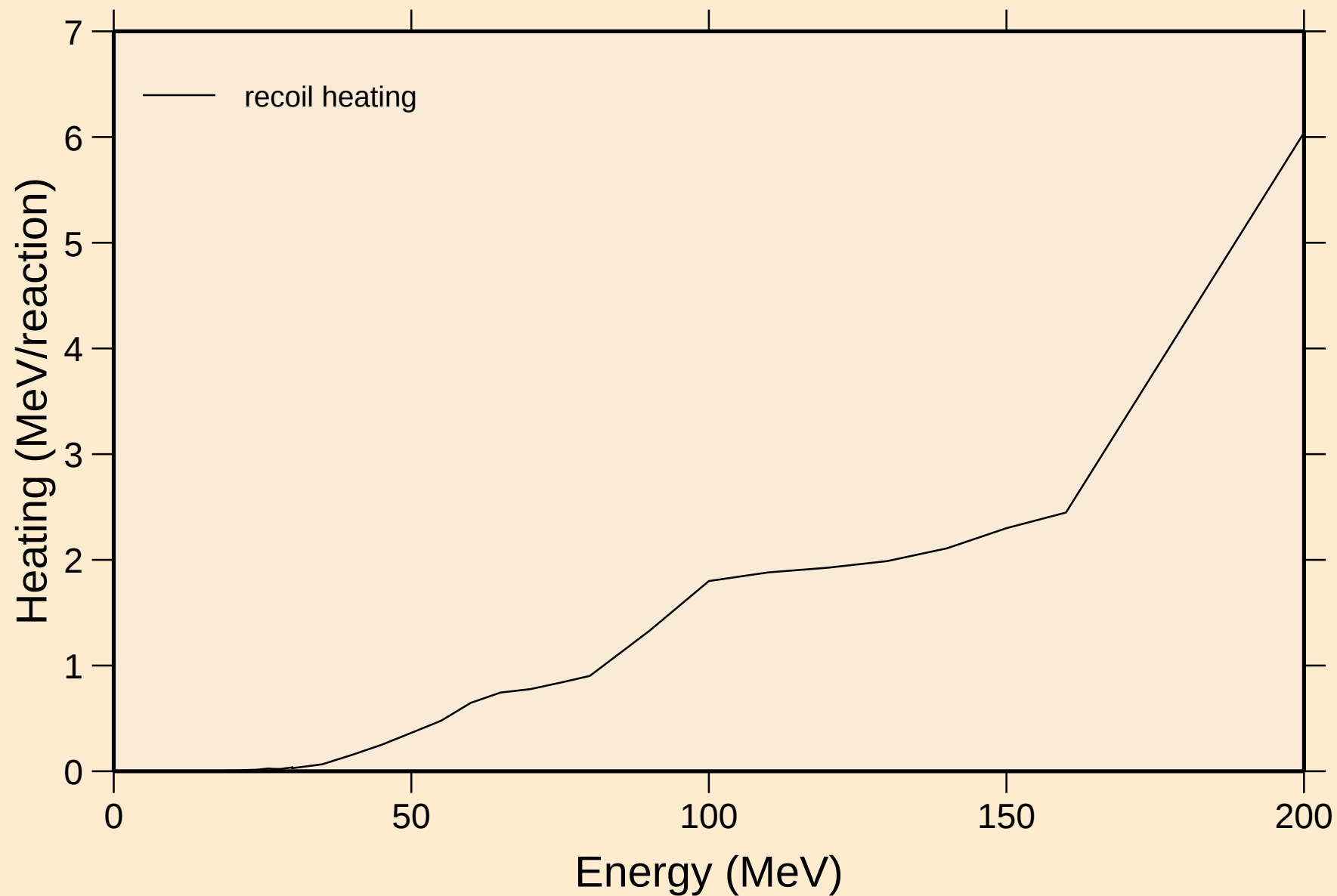
PM139 PROTON ACER TENDL-2024 LIBRARY; T=0.K
Photon emission for (n,da)



PM139 PROTON ACER TENDL-2024 LIBRARY; T=0.K
Particle heating contributions

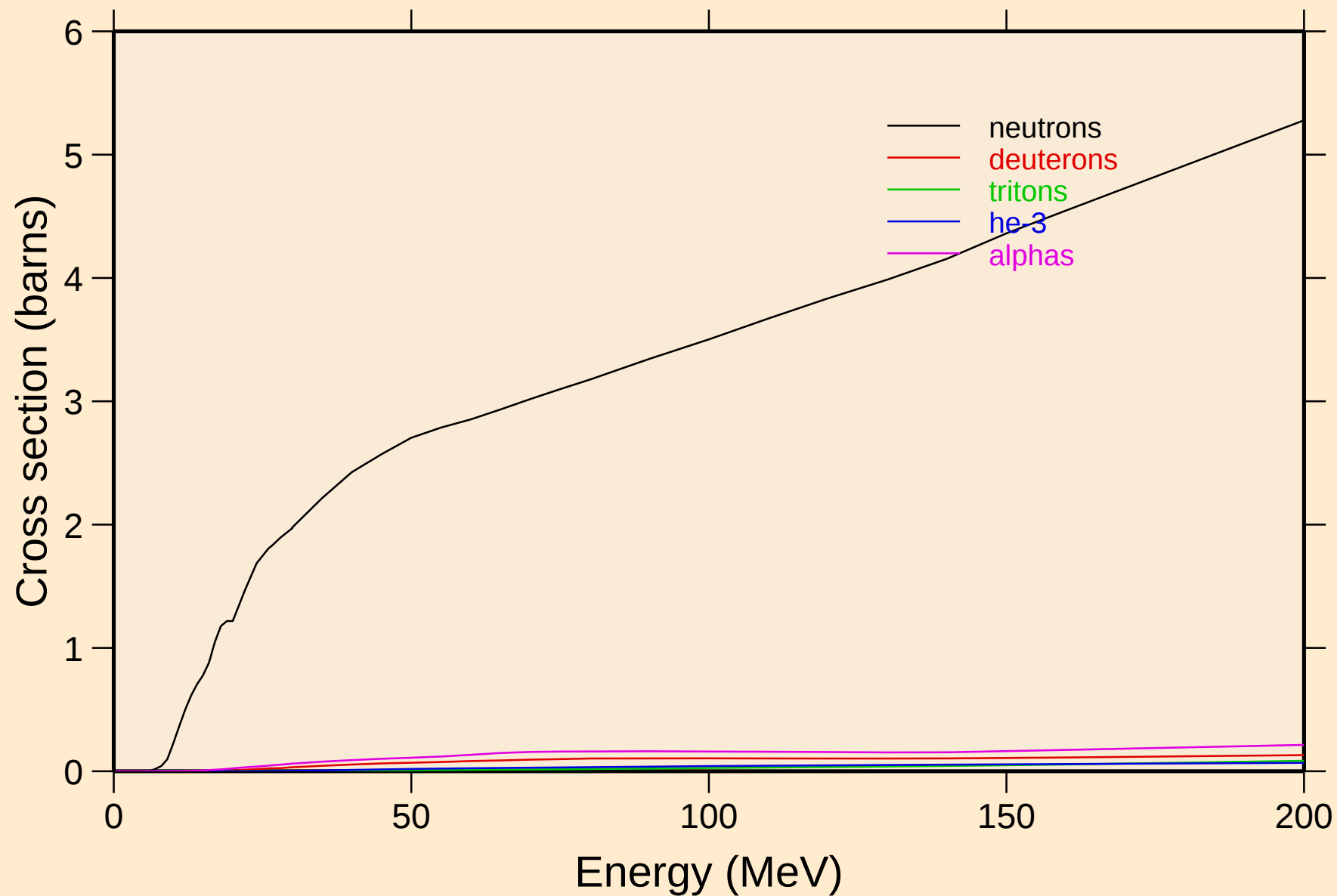


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Recoil Heating

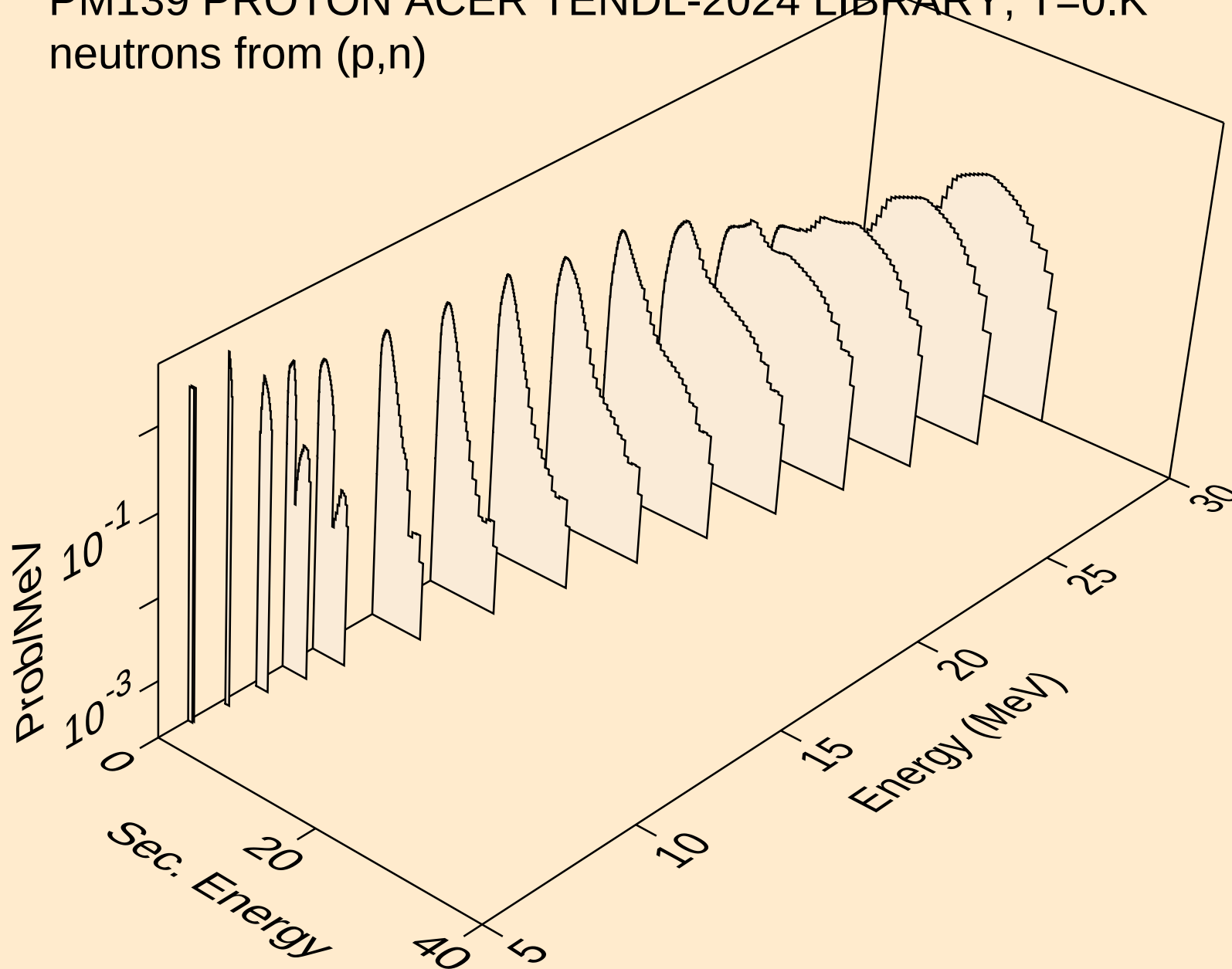


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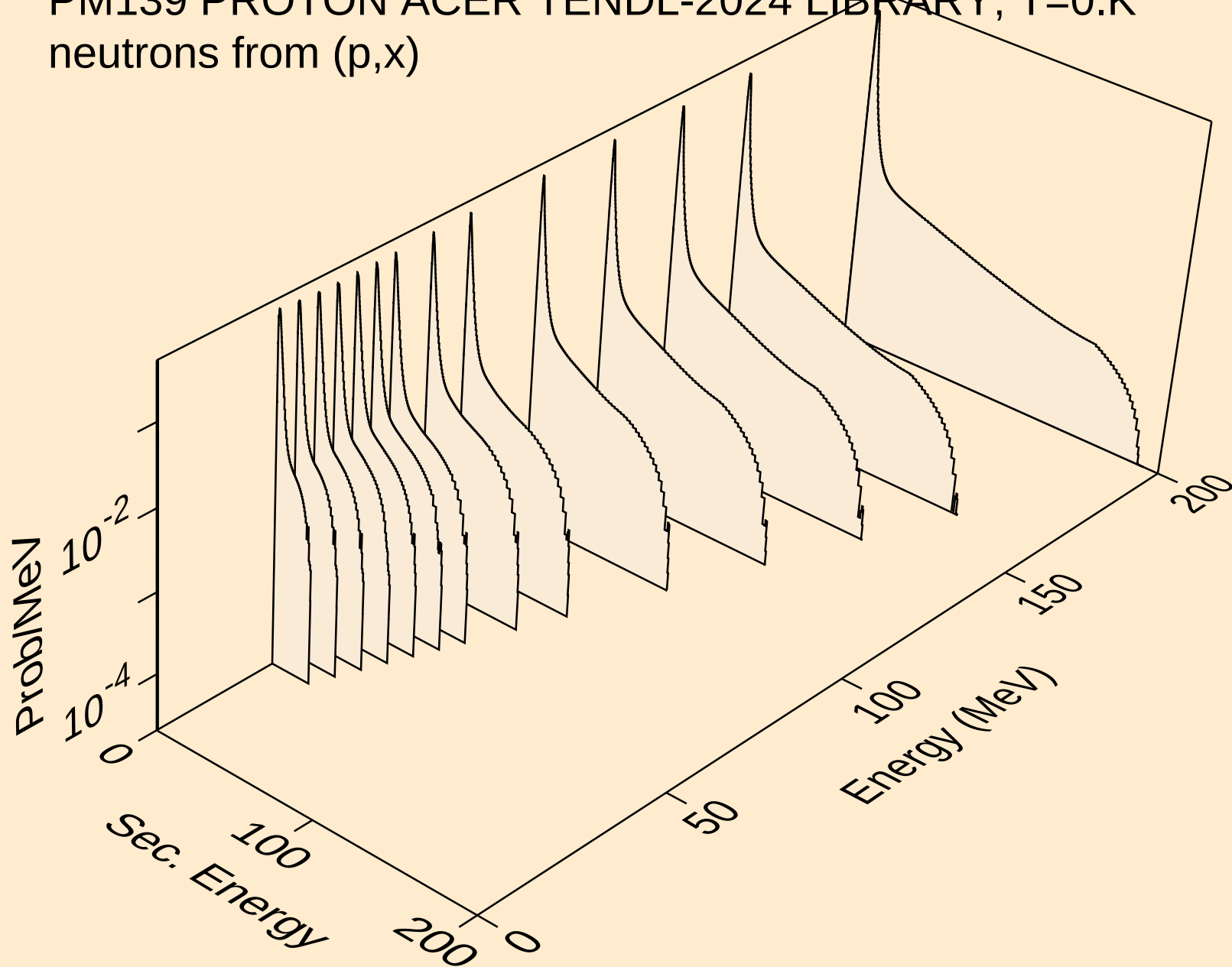
Particle production cross sections



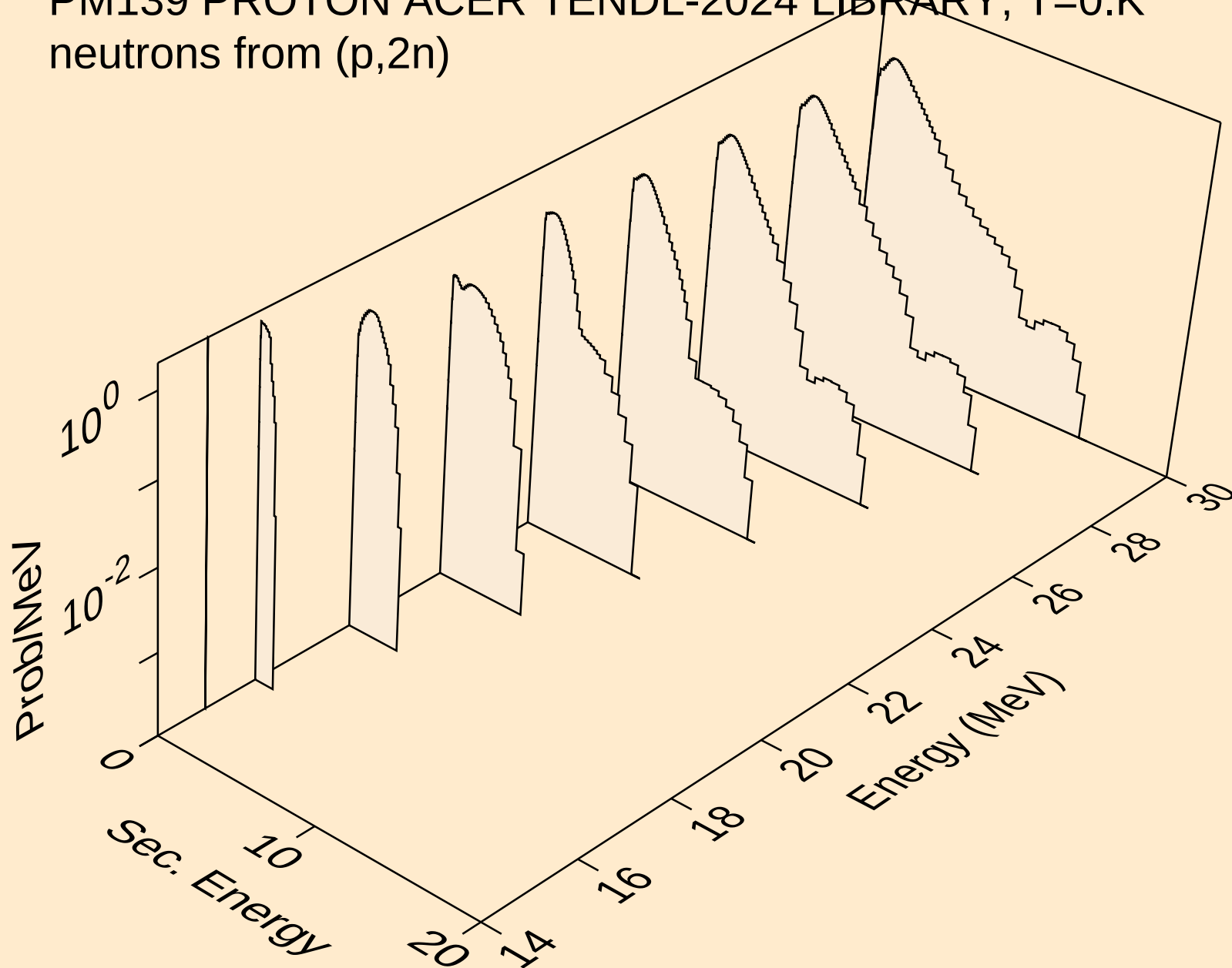
PM139 PROTON ACER TENDL-2024 LIBRARY; T=0.K
neutrons from (p,n)



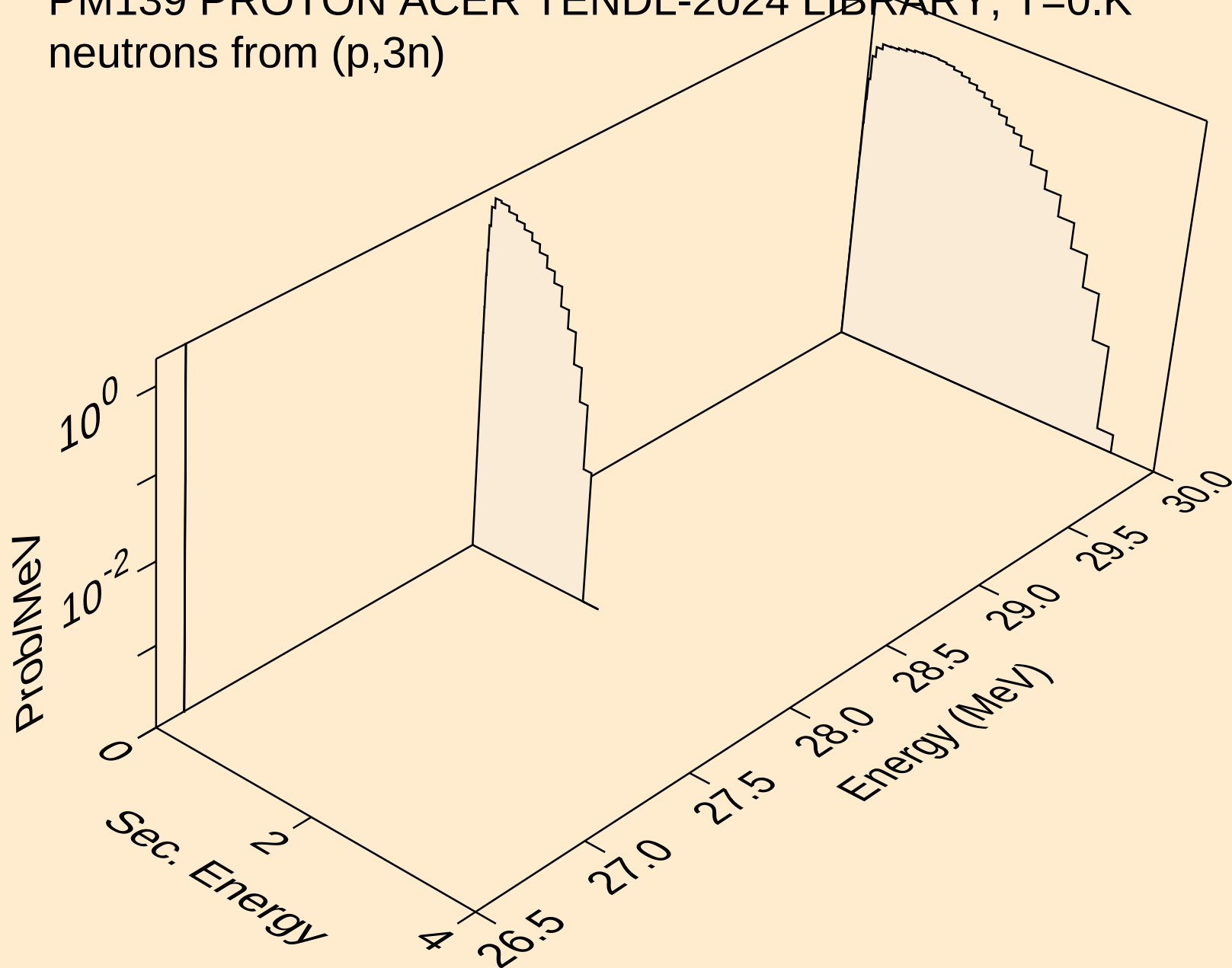
PM139 PROTON ACER TENDL-2024 LIBRARY; T=0.K
neutrons from (p,x)



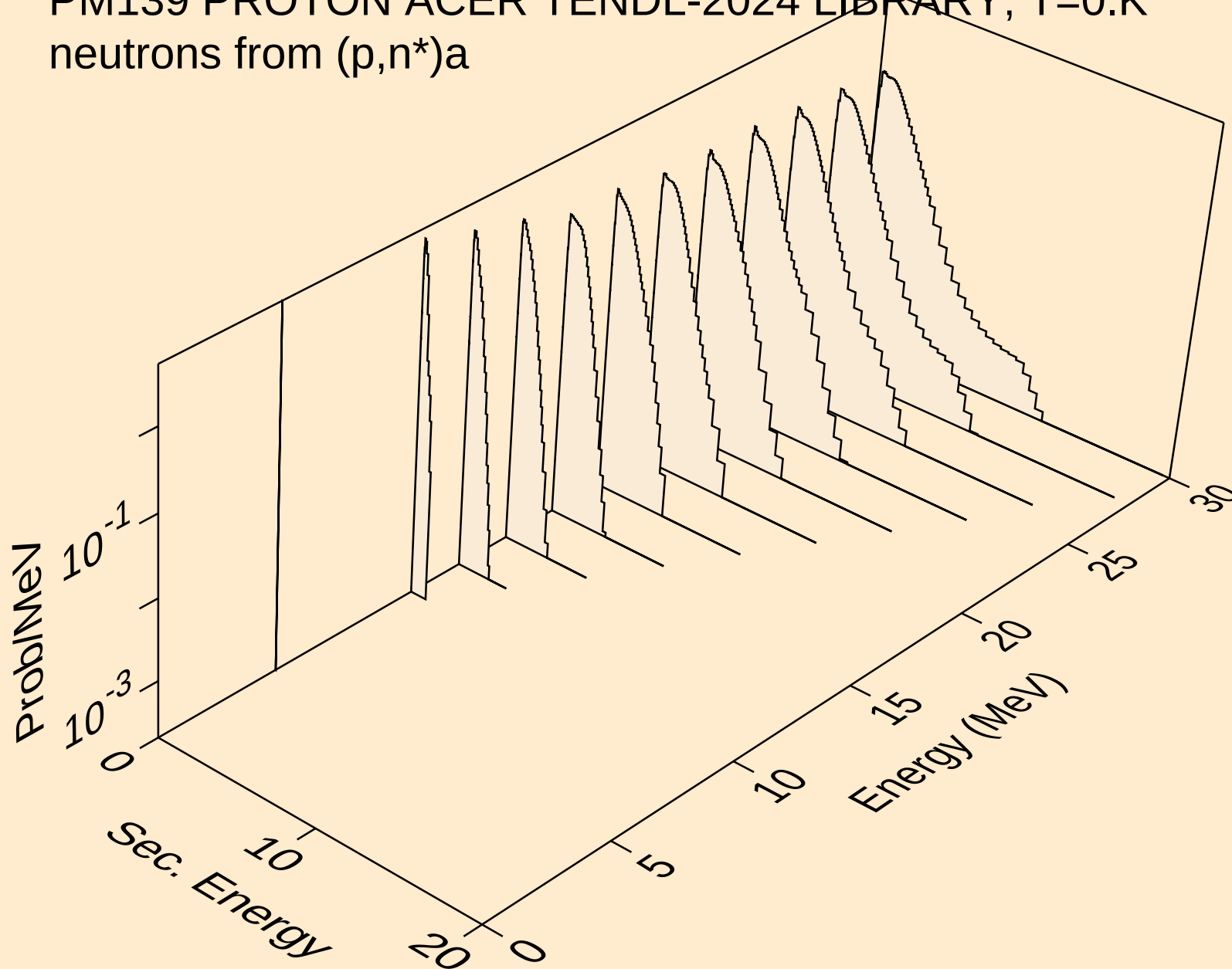
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neutrons from (p,2n)



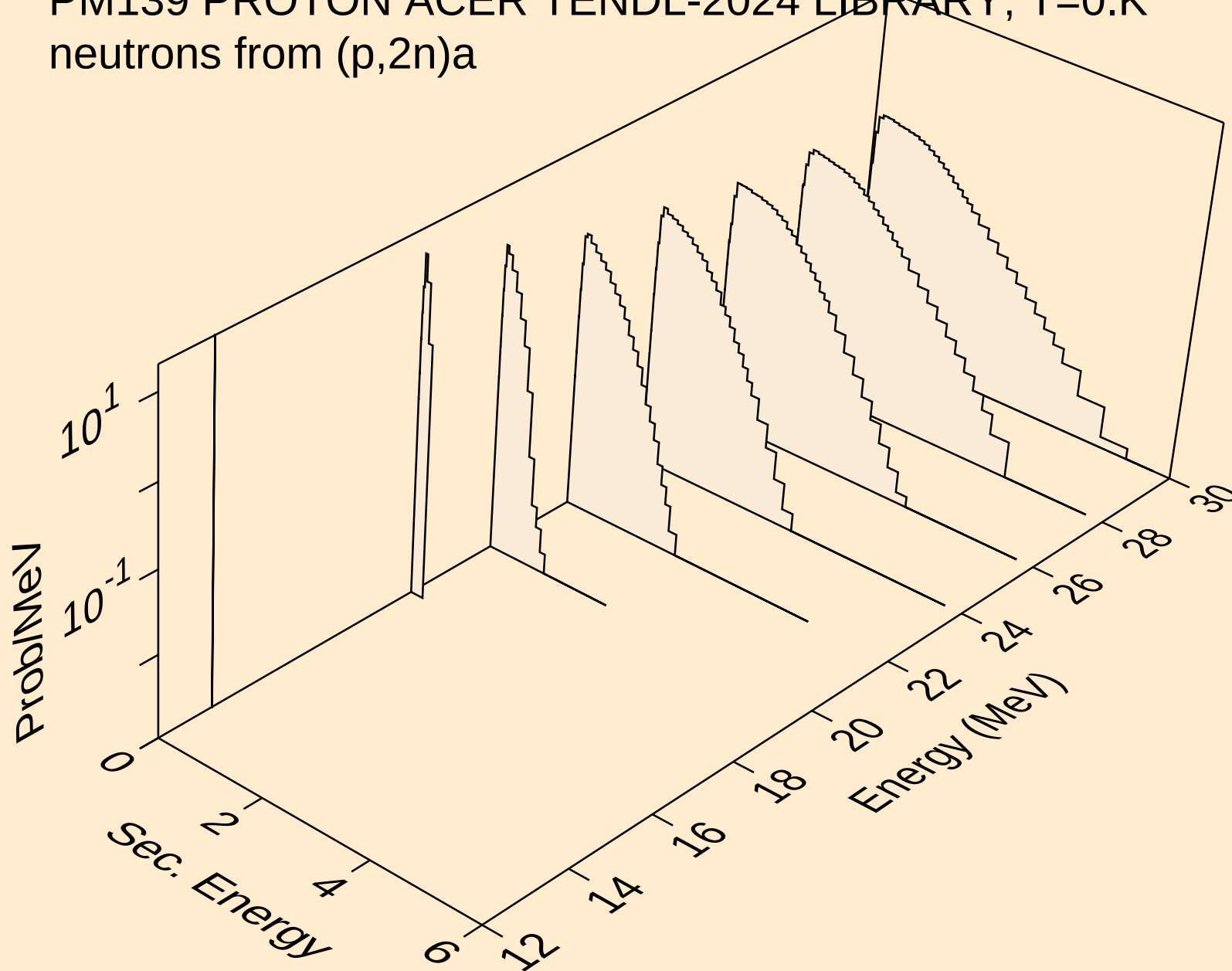
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neutrons from (p,3n)



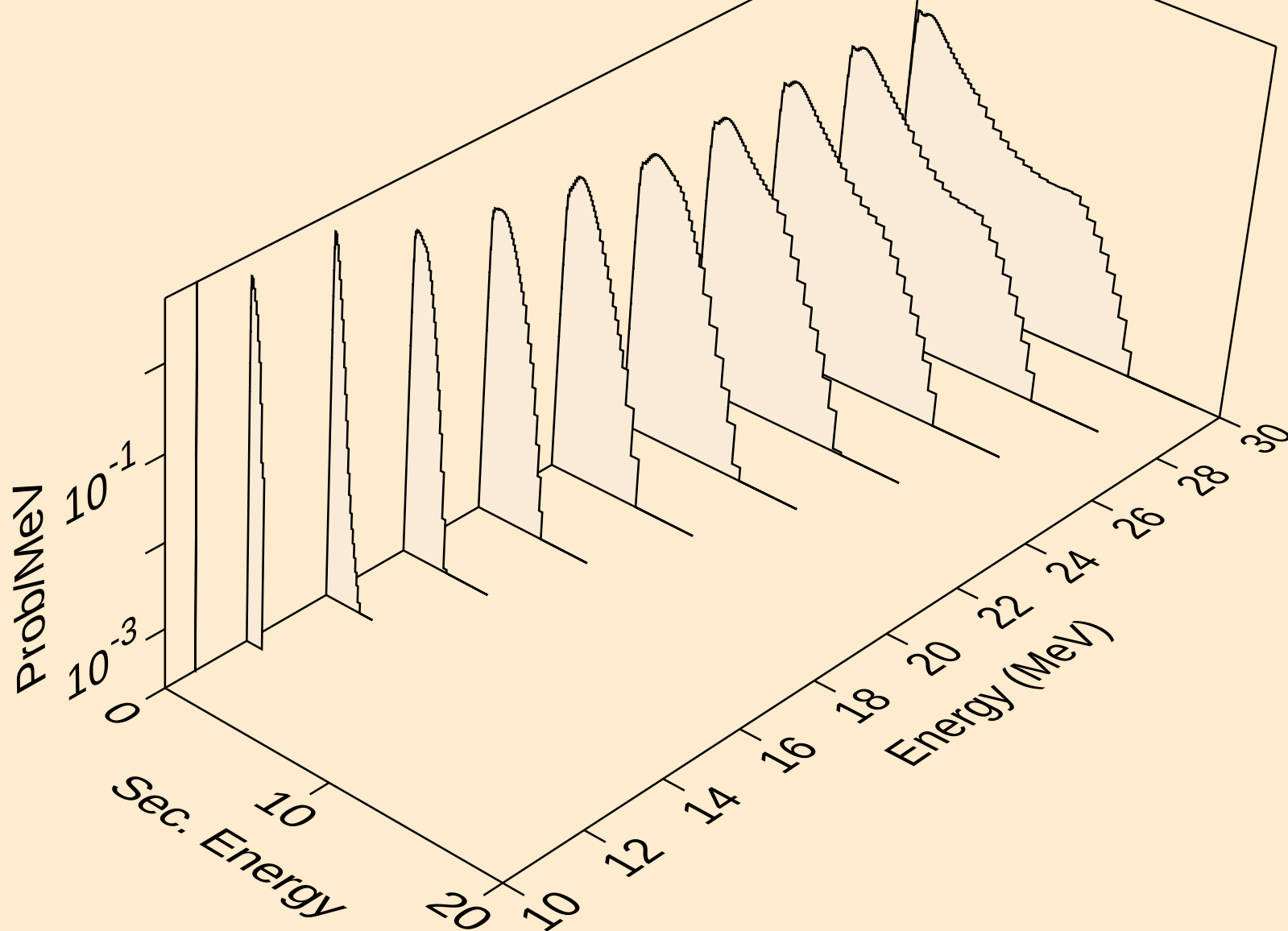
PM139 PROTON ACER TENDL-2024 LIBRARY; T=0.K
neutrons from (p,n*)a



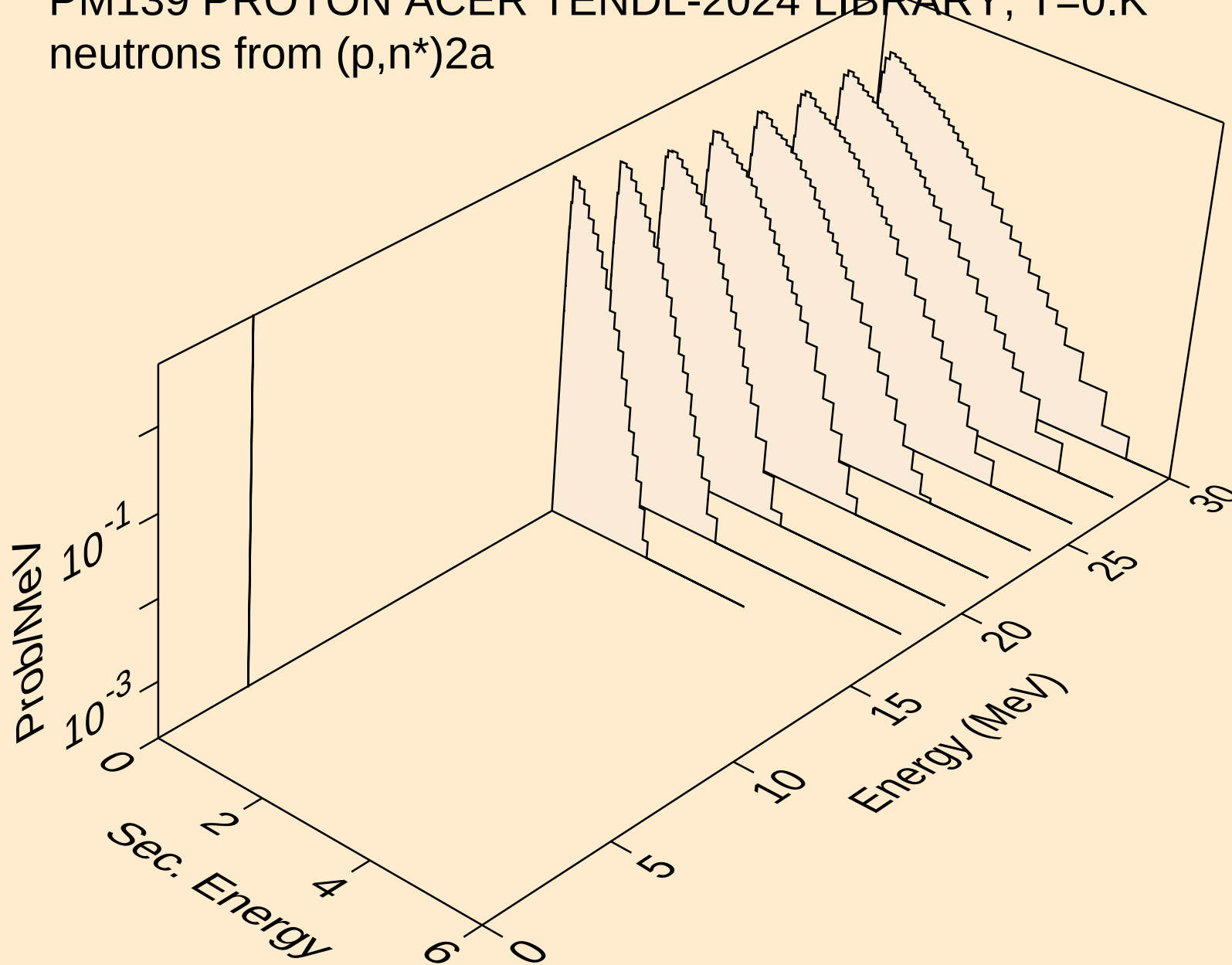
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neutrons from (p,2n)a



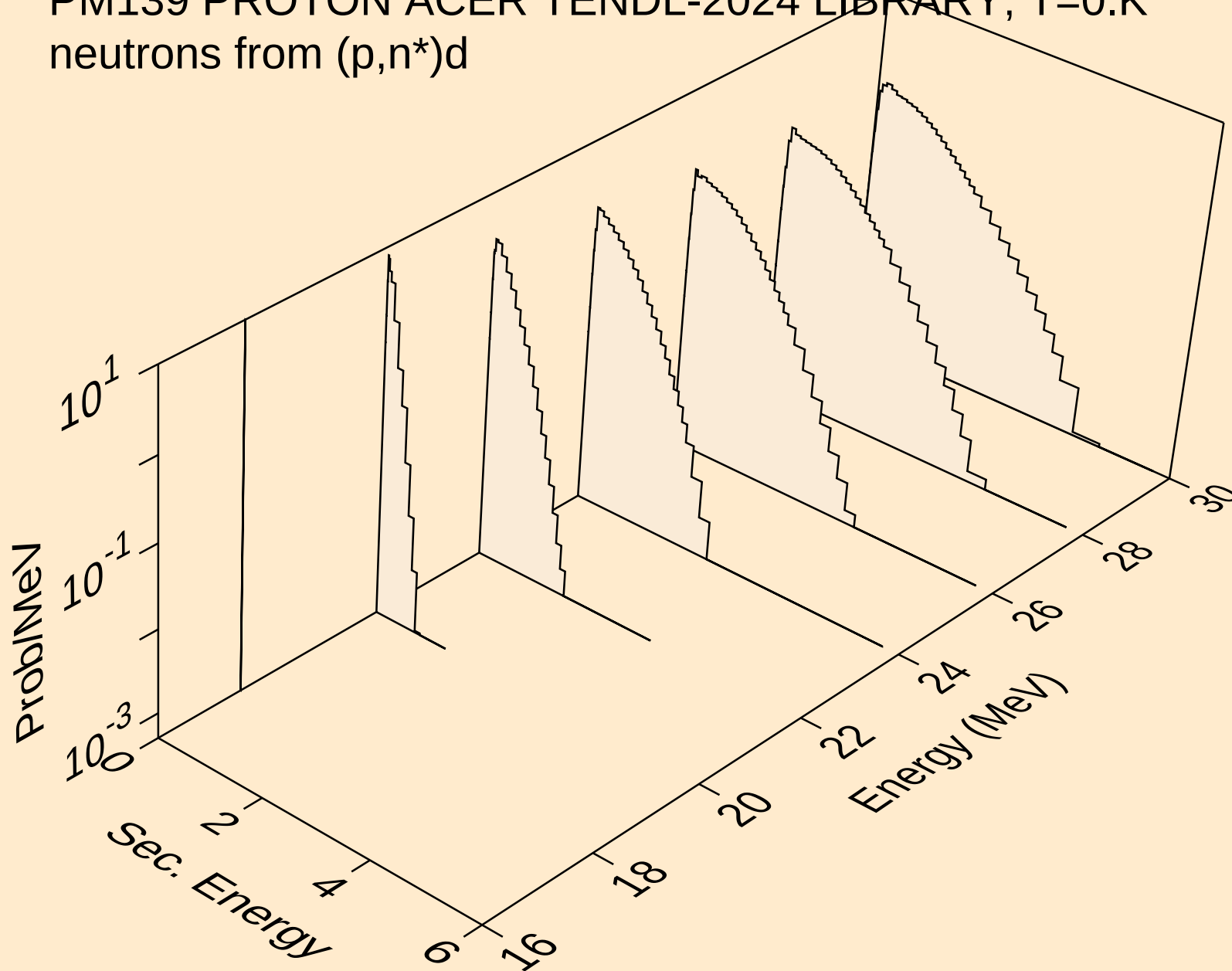
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neutrons from (p,n*)p



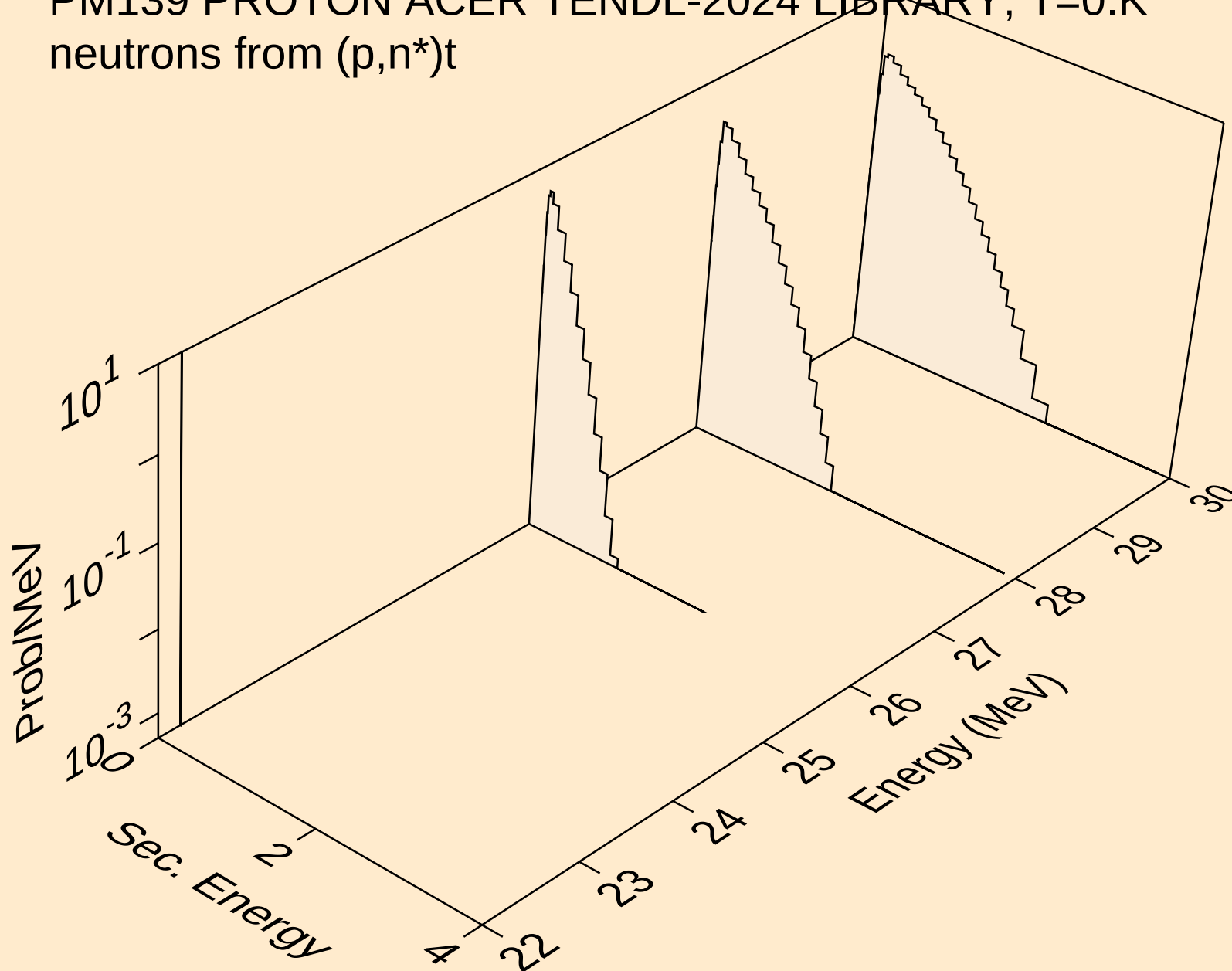
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neutrons from (p,n*)2a



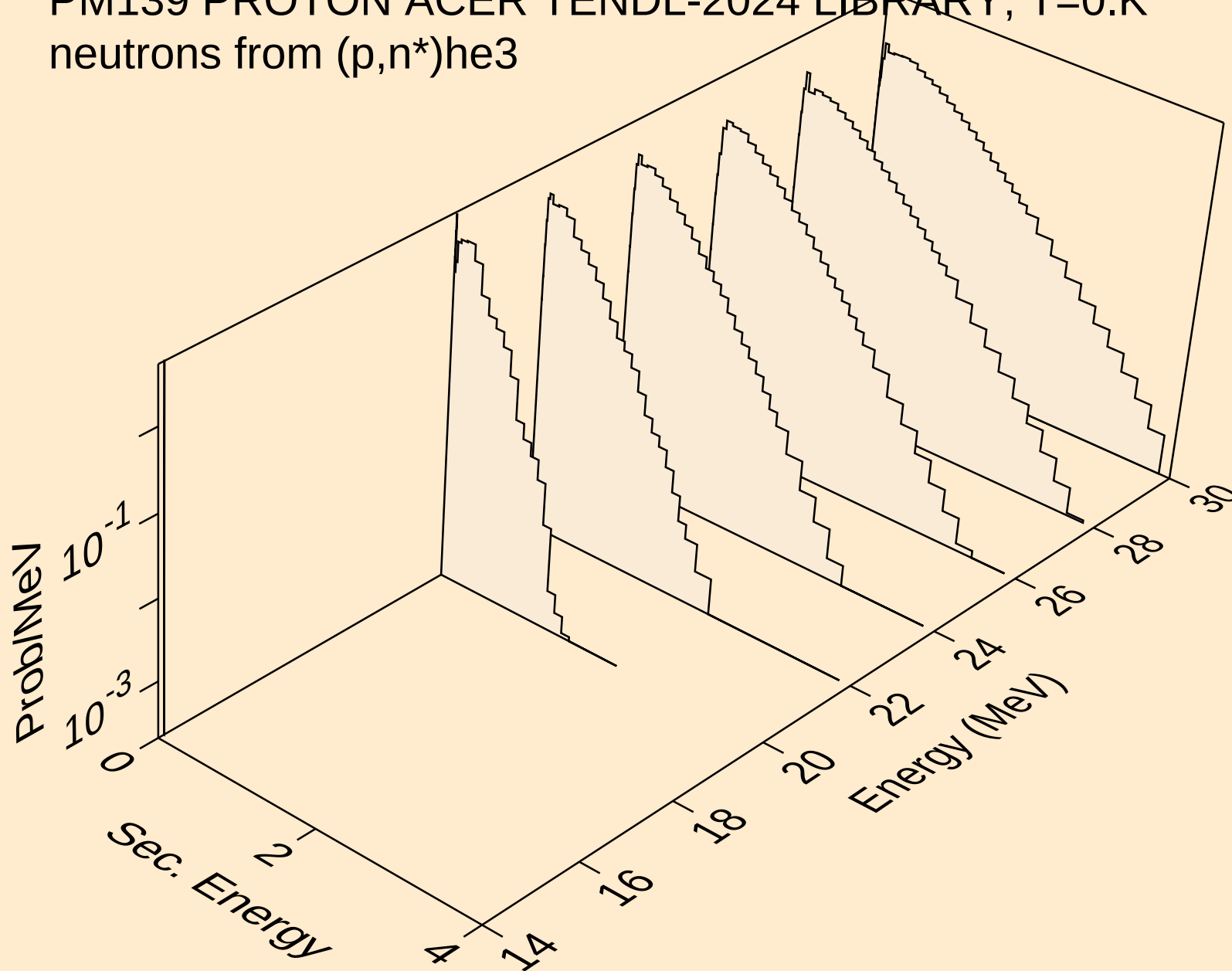
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neutrons from (p,n*)d



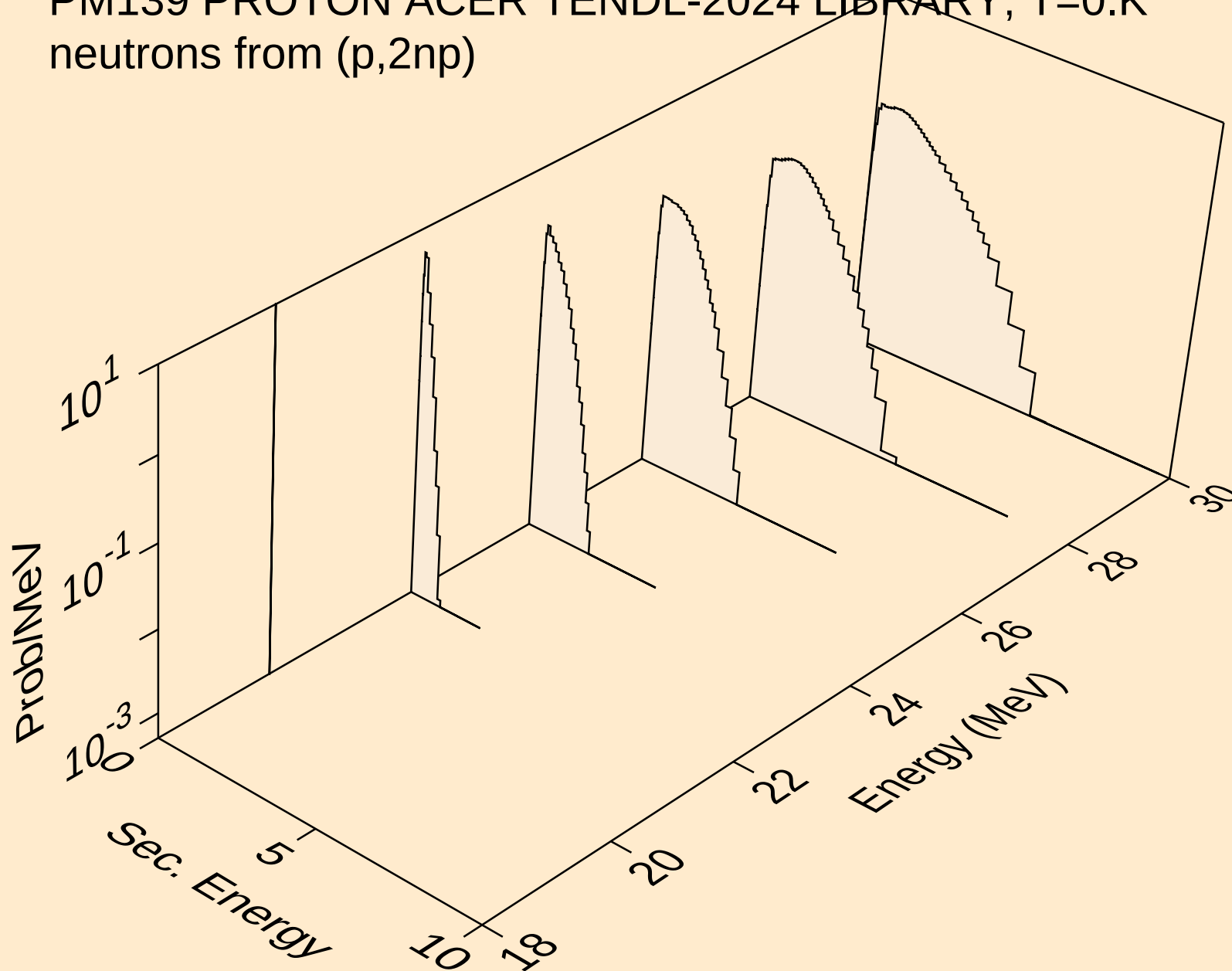
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neutrons from (p,n*)t



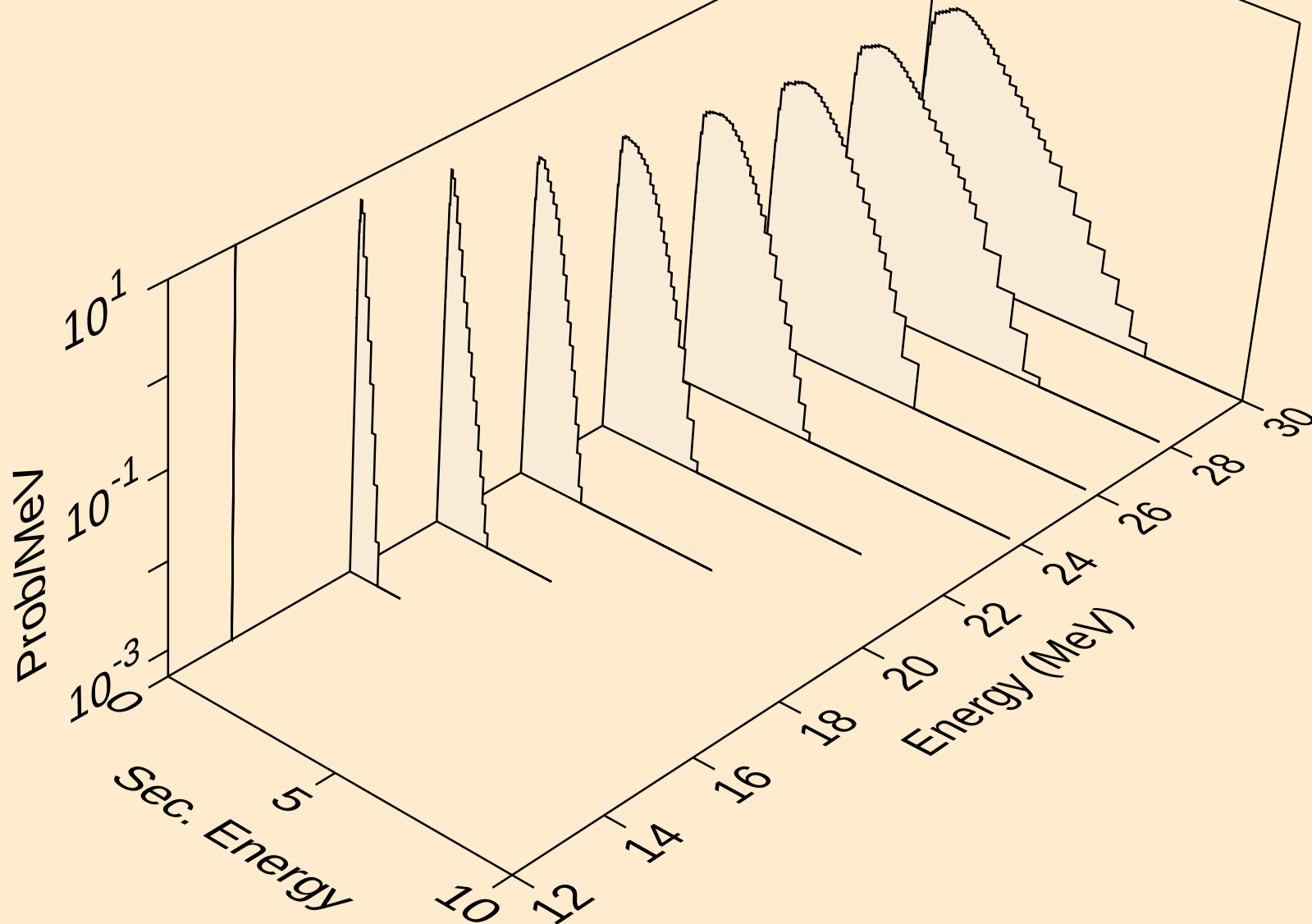
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neutrons from (p,n*)he3



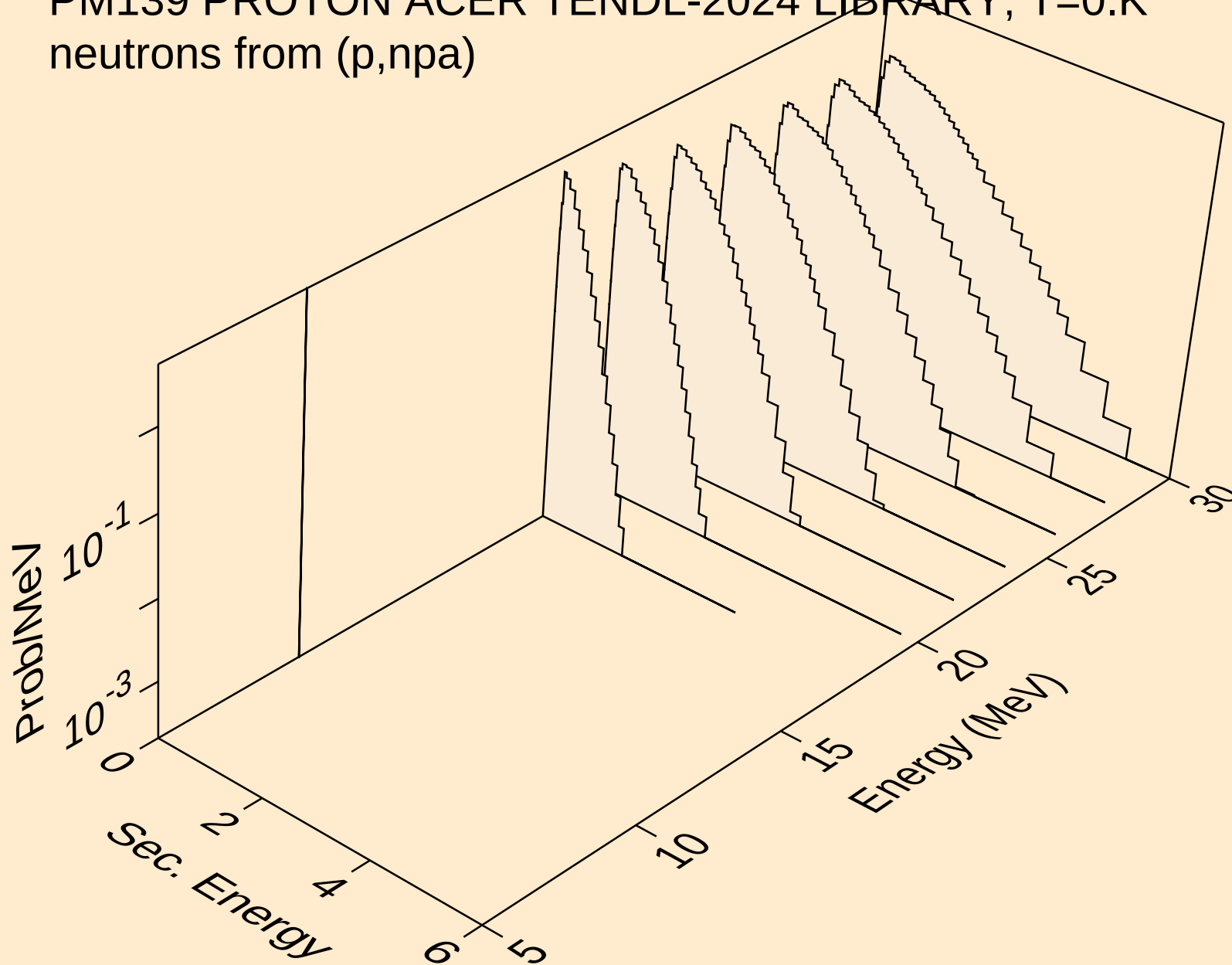
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neutrons from (p,2np)



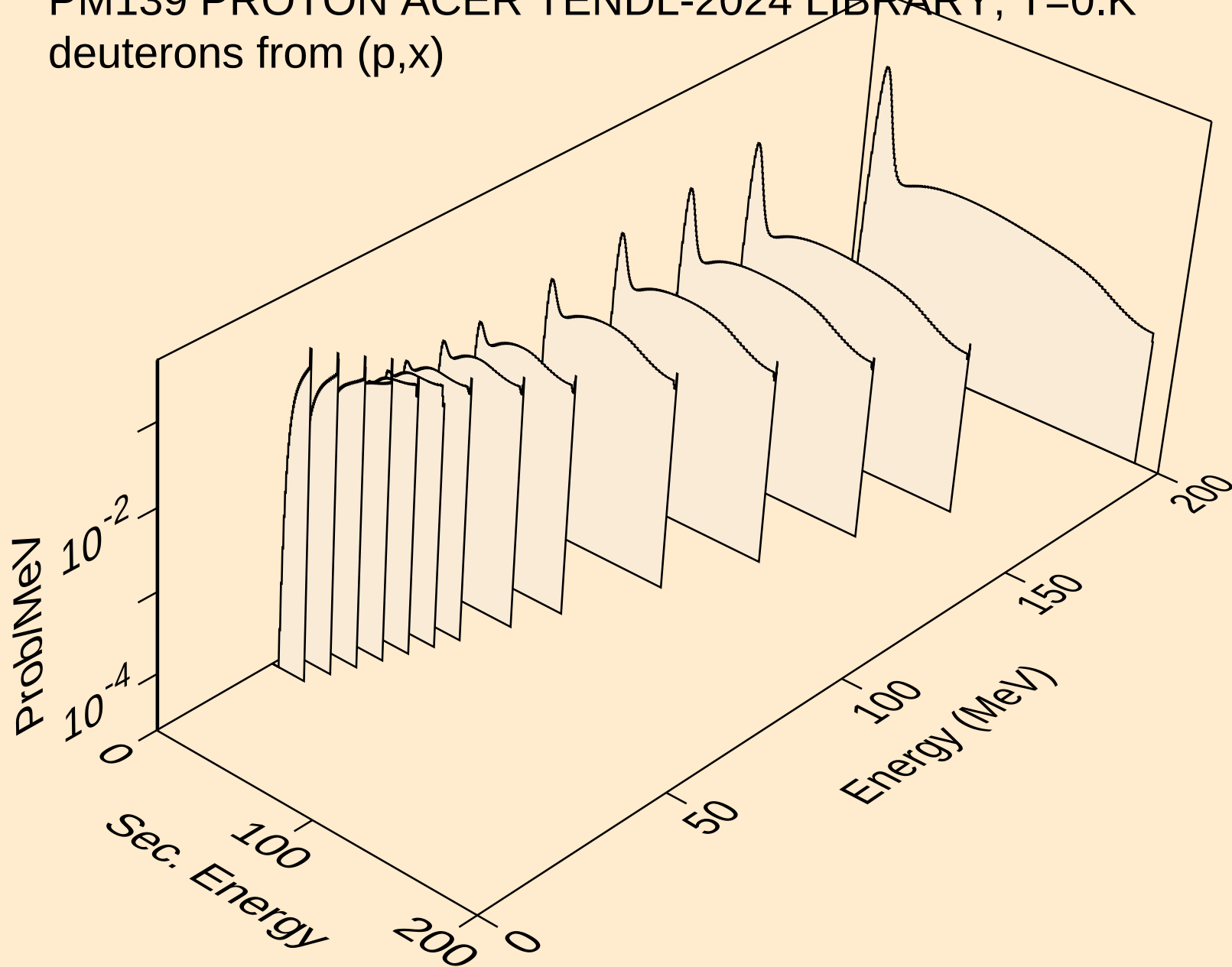
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neutrons from (p,n2p)



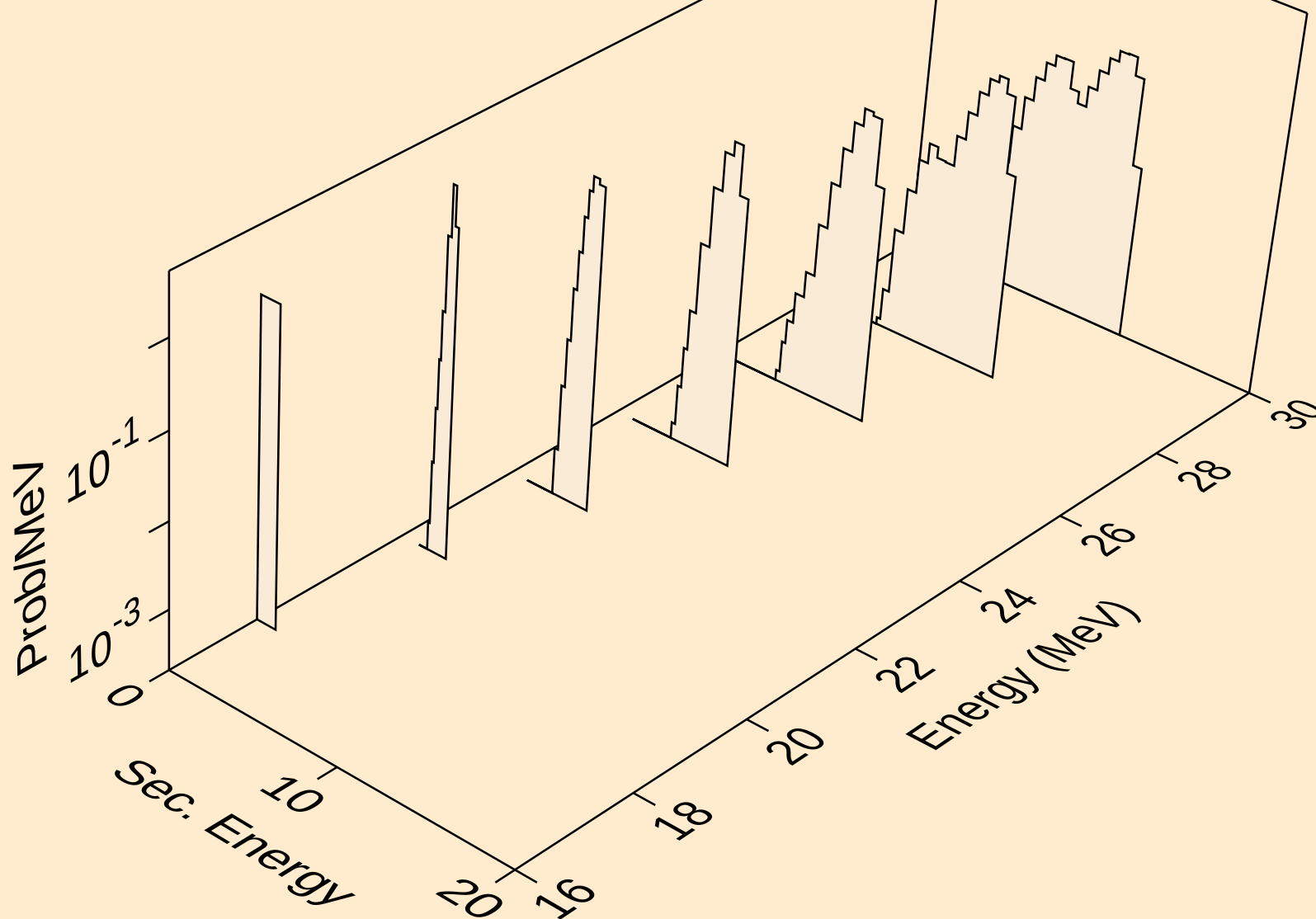
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neutrons from (p,npa)



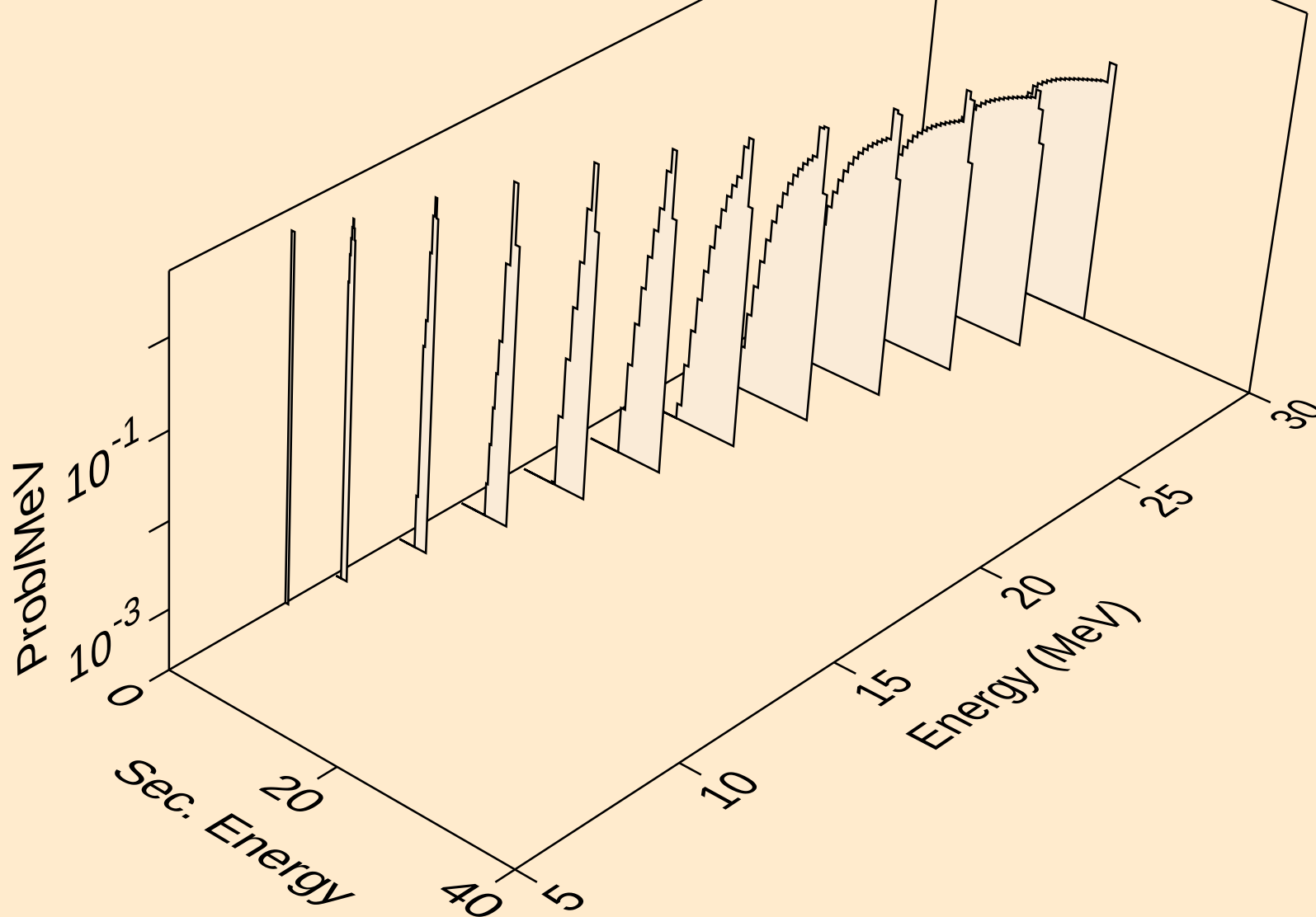
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deuterons from (p,x)



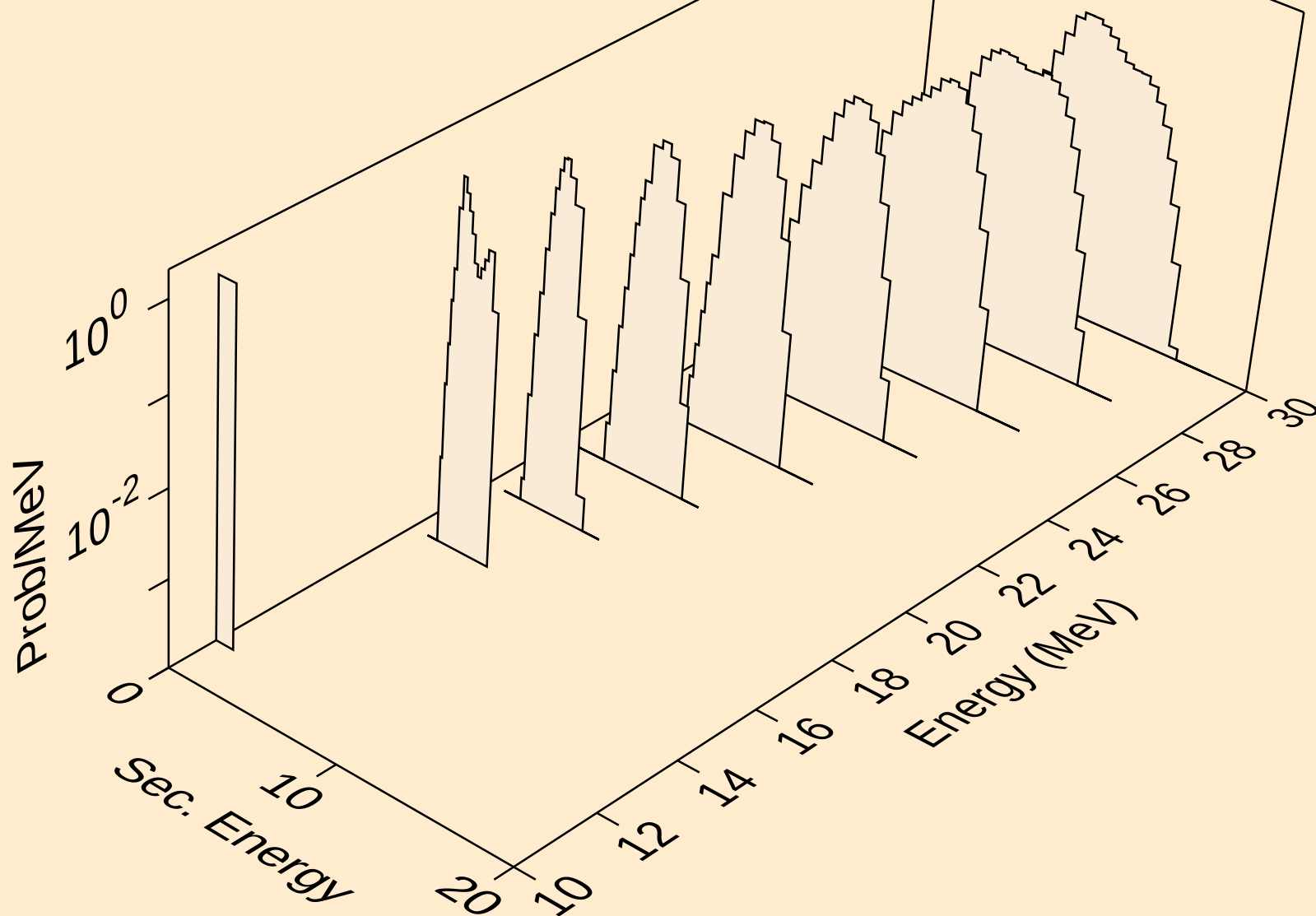
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deuterons from (p,n*)d



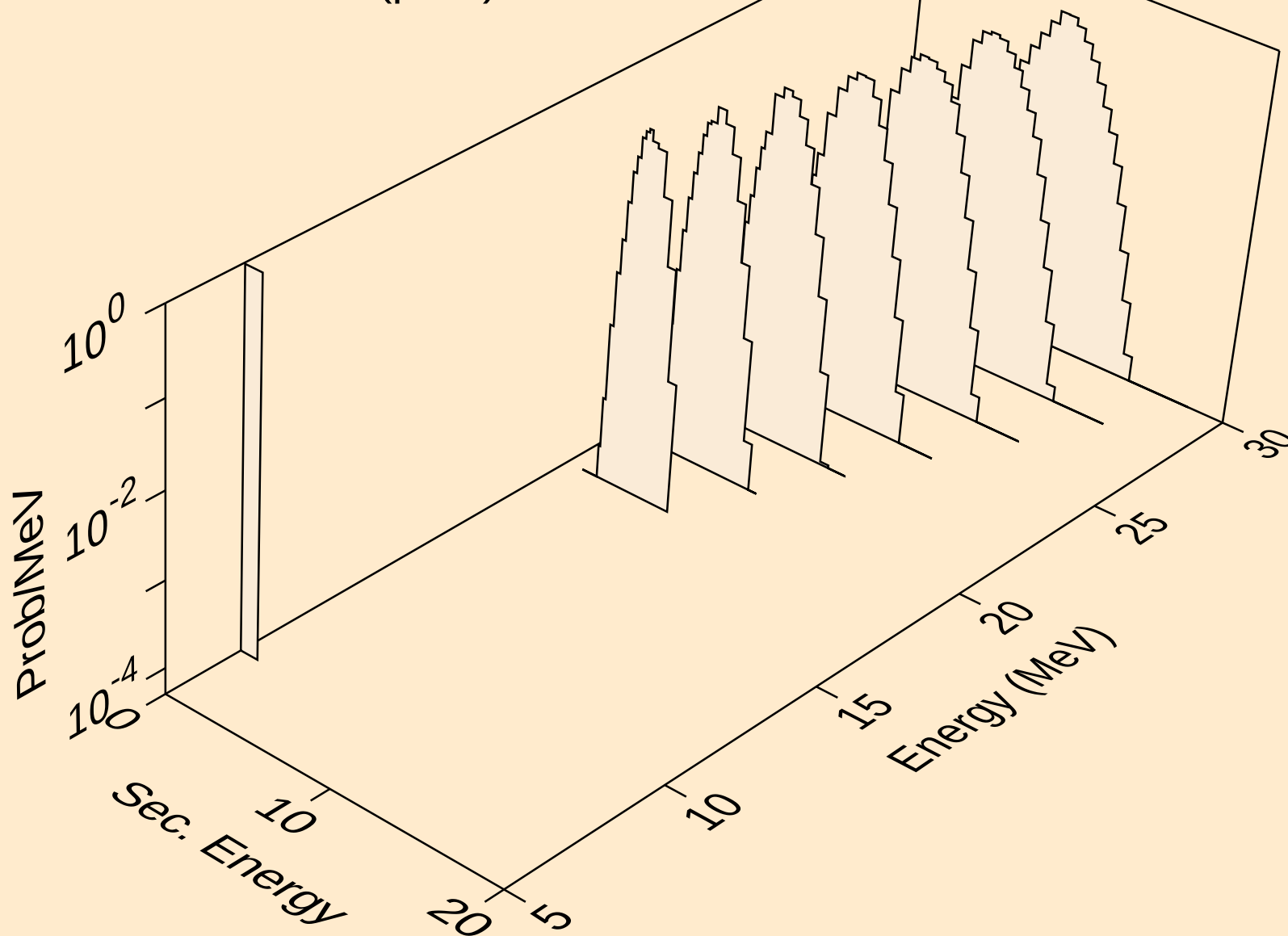
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deuterons from (p,d)



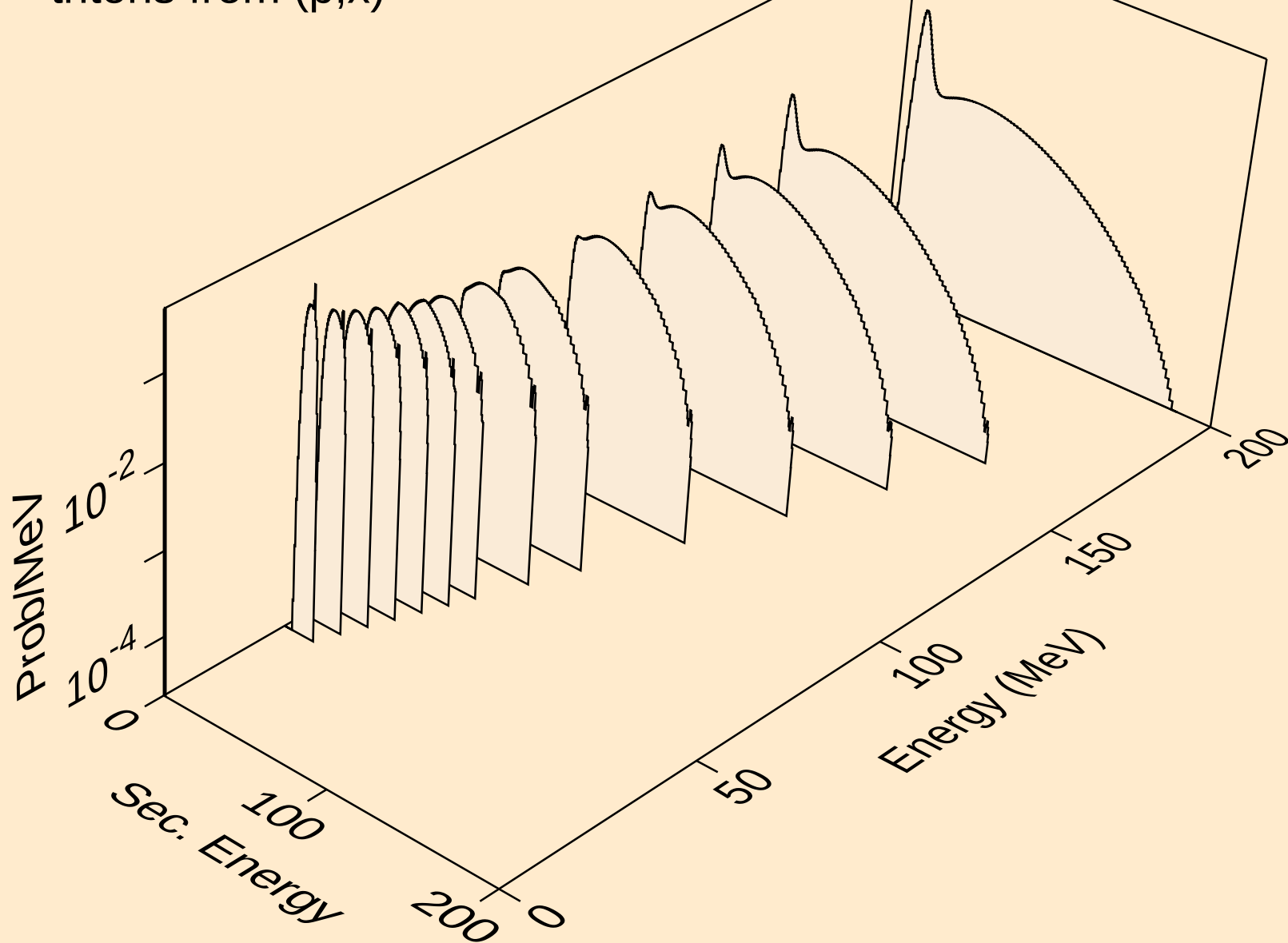
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deuterons from (p,pd)



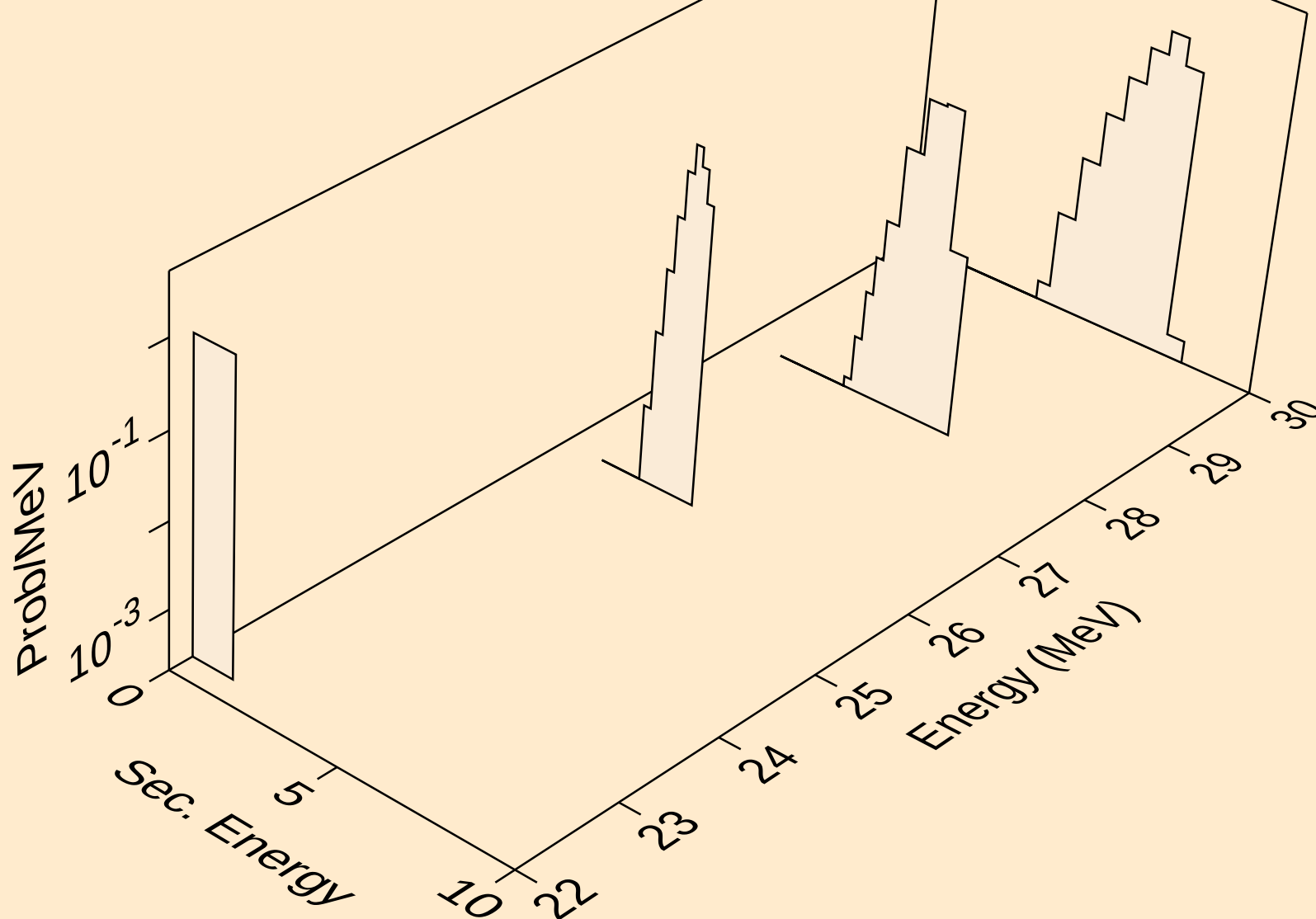
PM139 PROTON ACER TENDL-2024 LIBRARY; T=0.K
deuterons from (p,da)



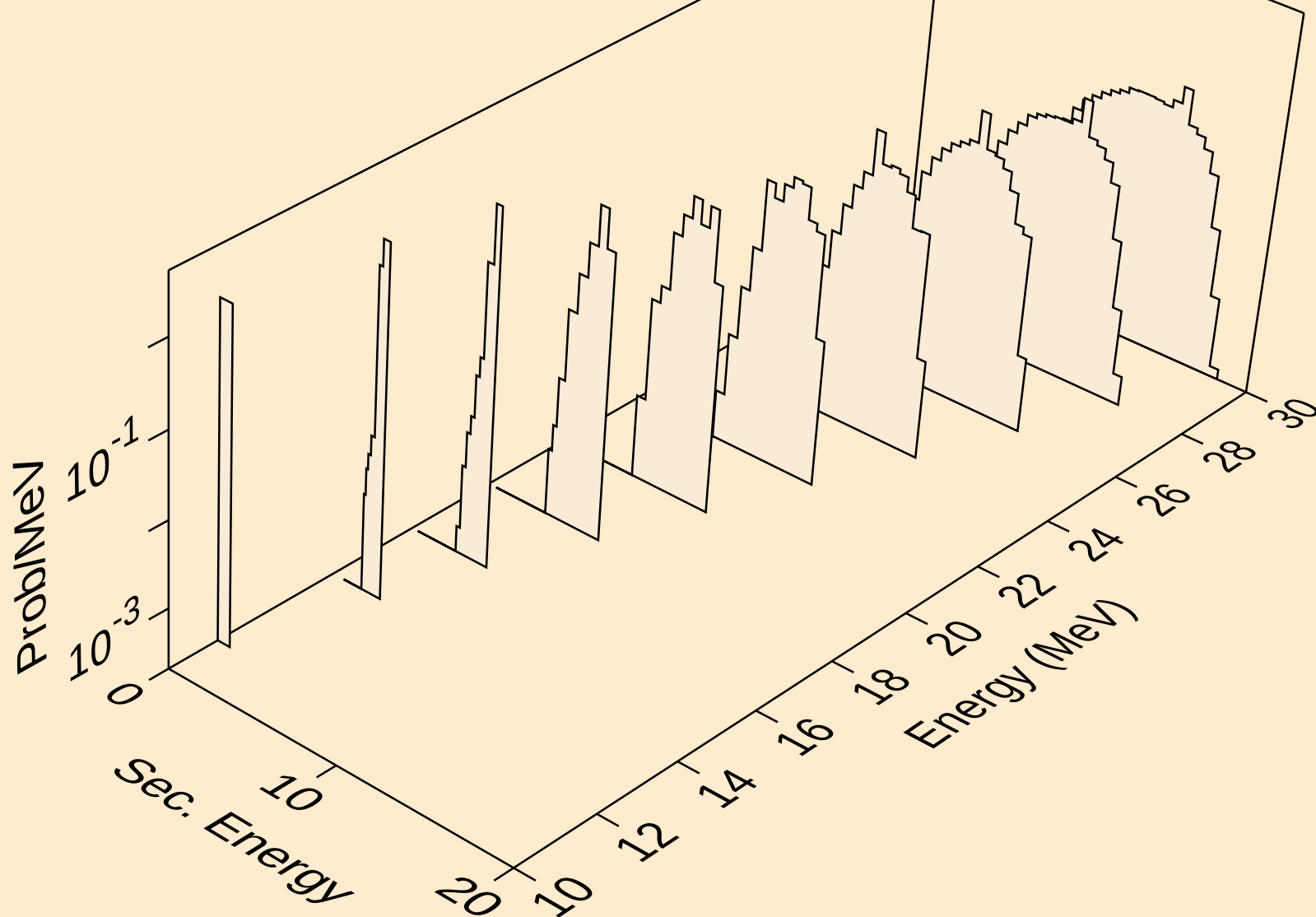
PM139 PROTON ACER TENDL-2024 LIBRARY; T=0.K
tritons from (p,x)



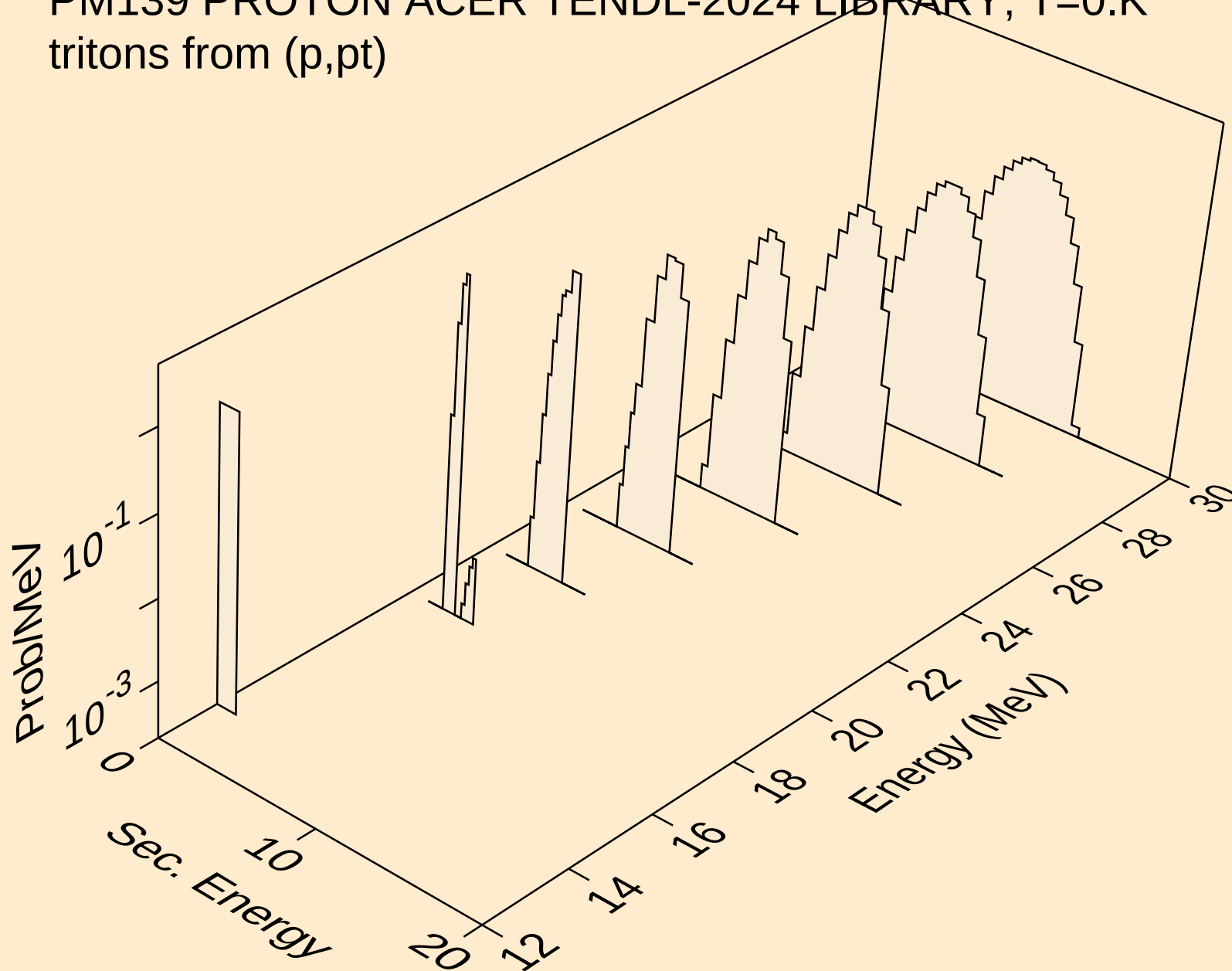
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tritons from (p,n*)t



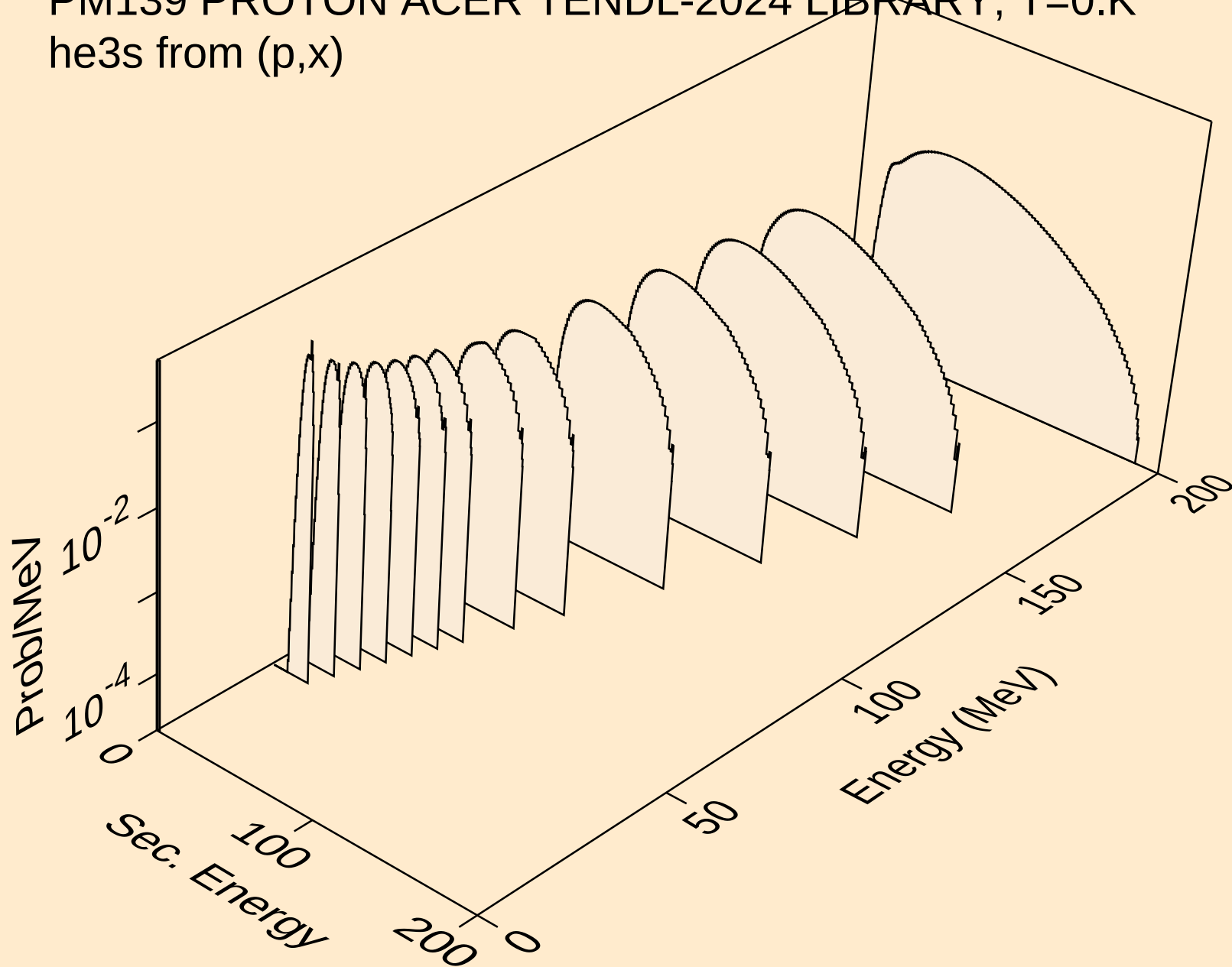
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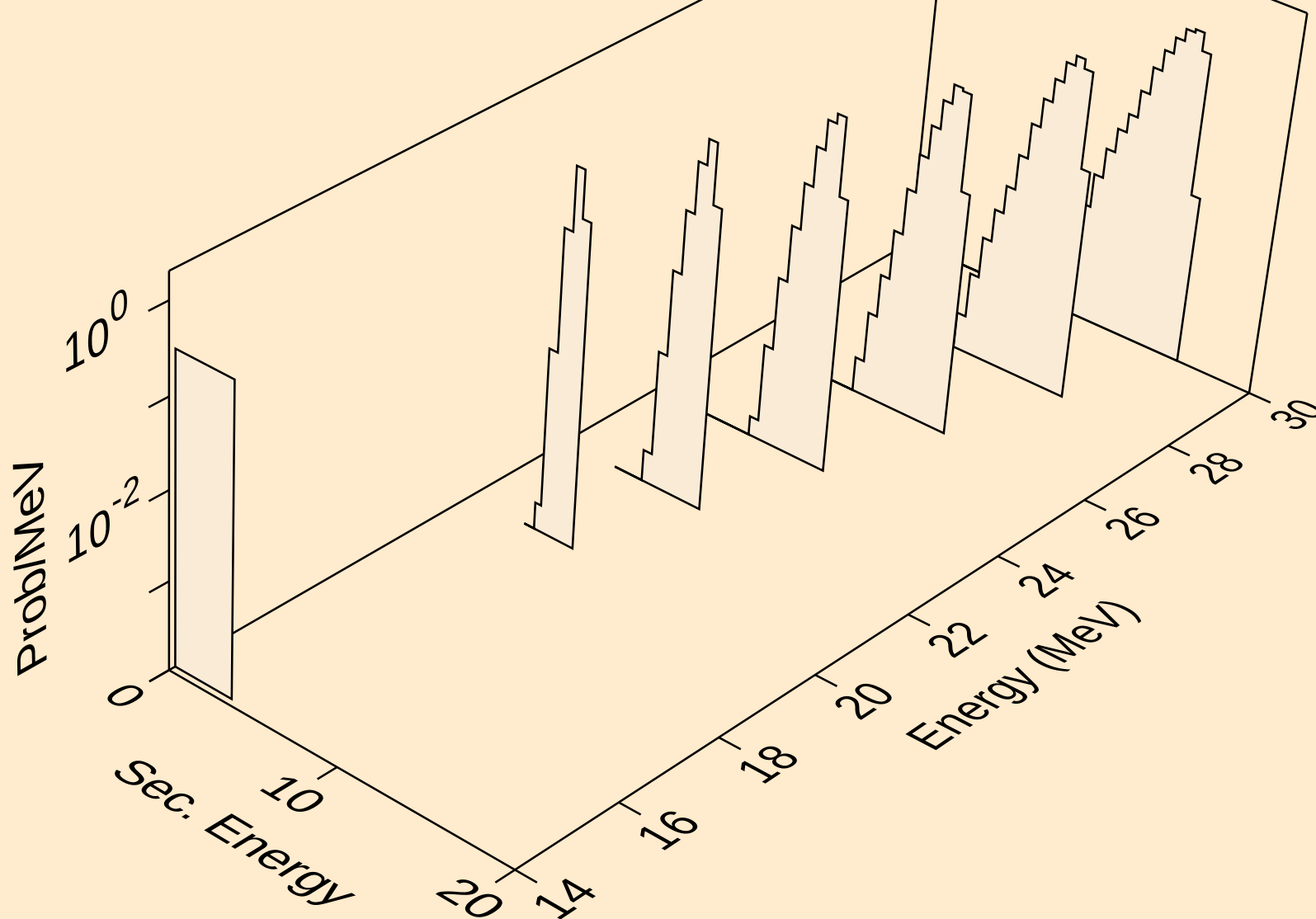
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tritons from (p,pt)



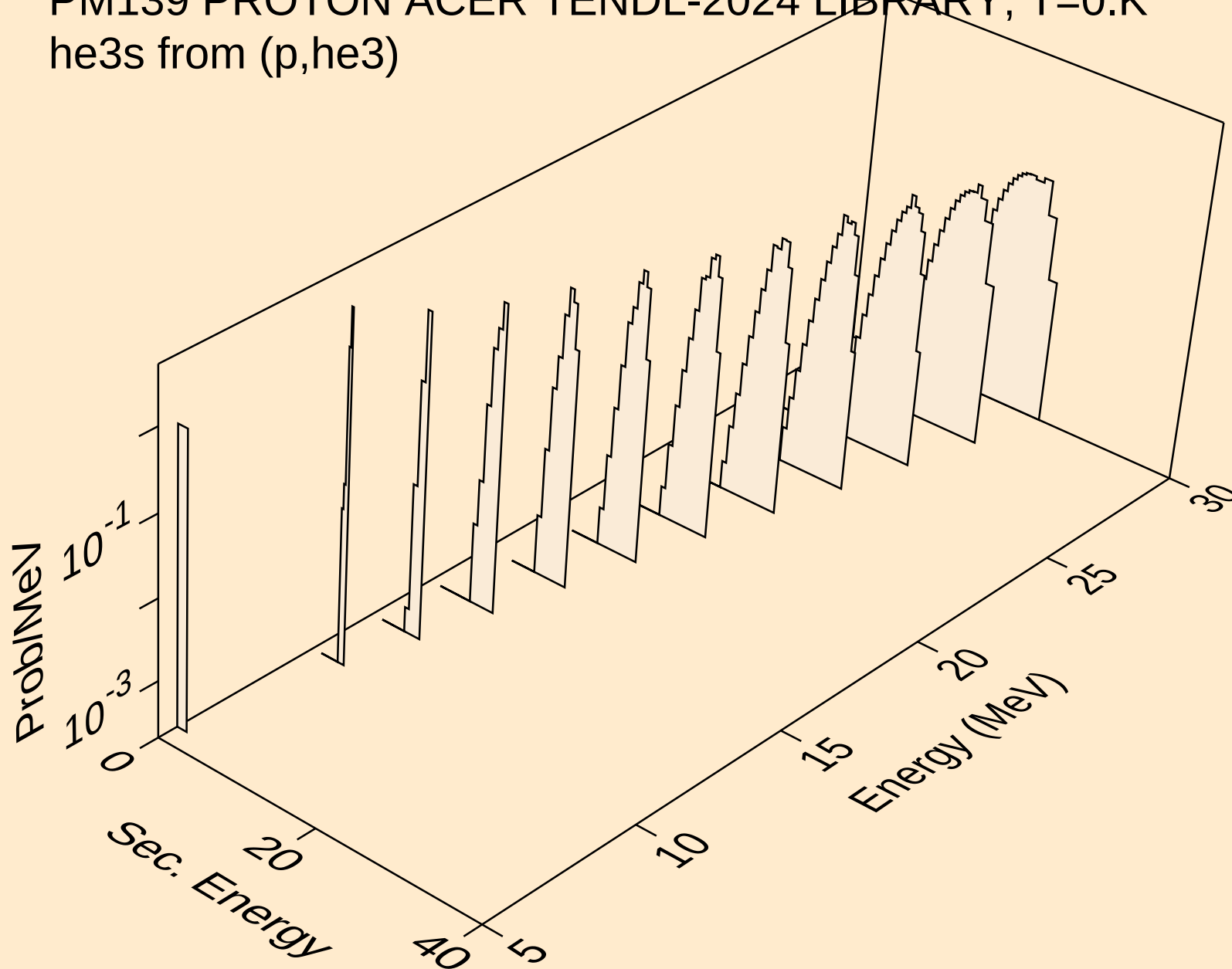
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he3s from (p,x)



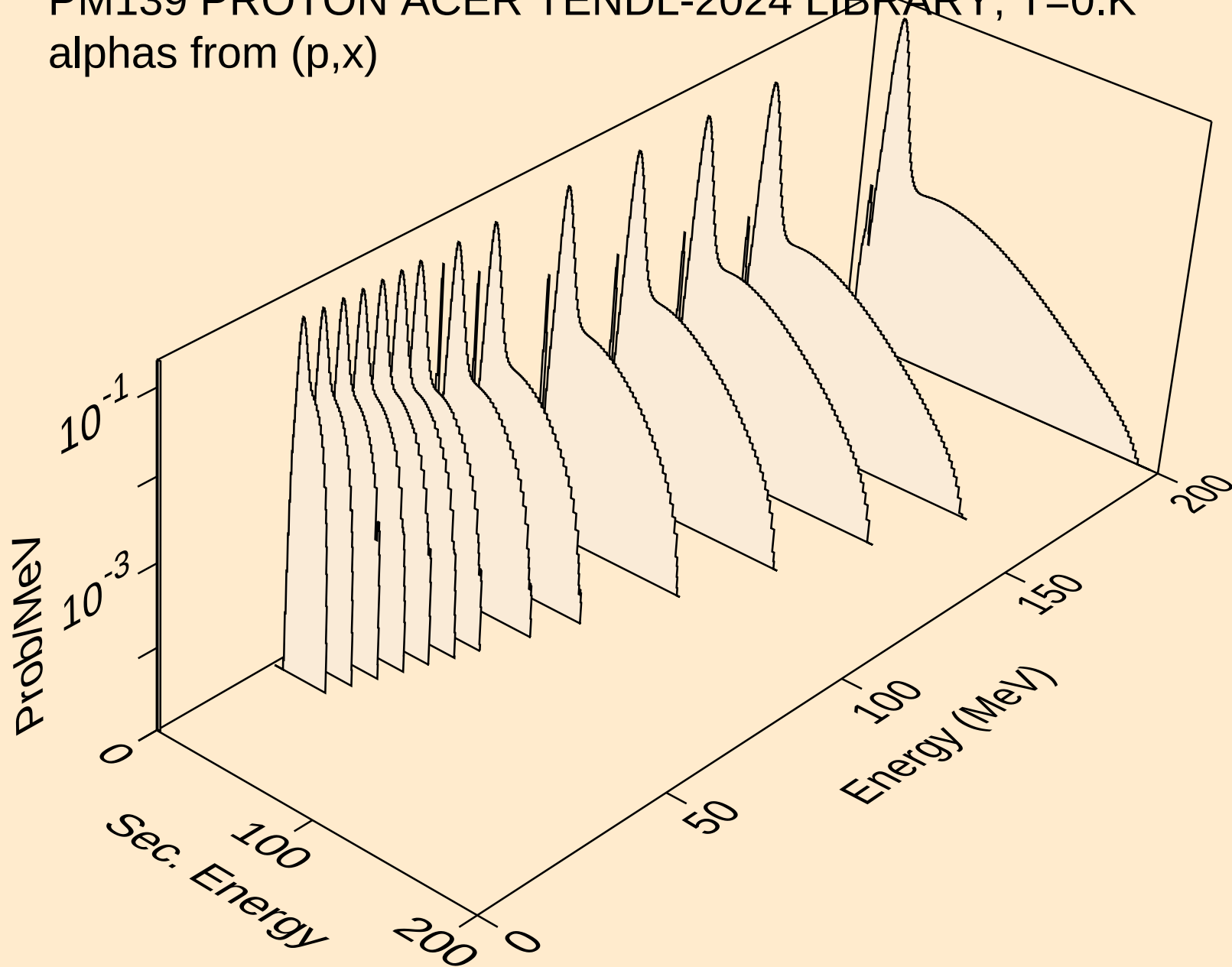
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he3s from (p,n*)he3



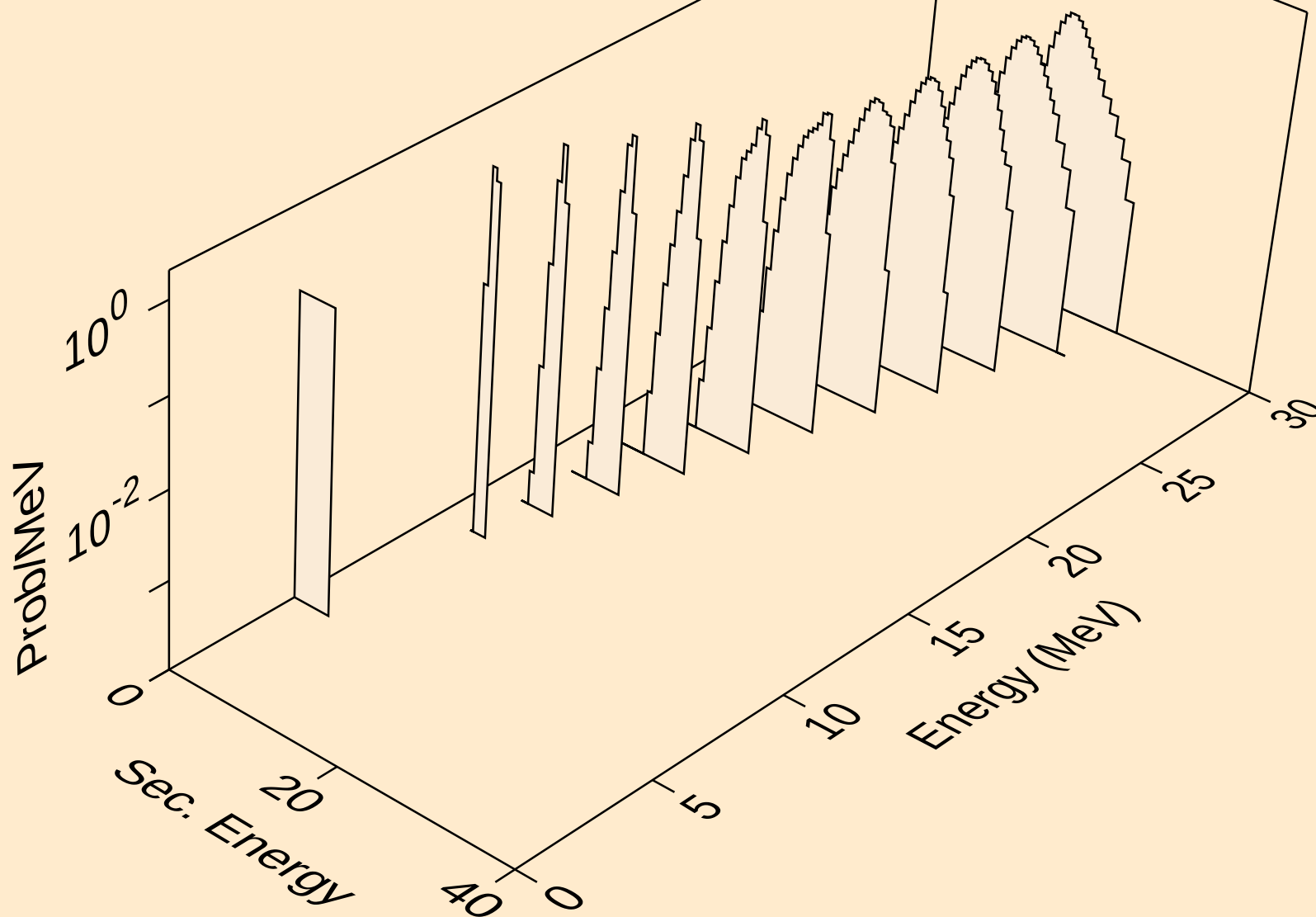
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he3s from (p,he3)



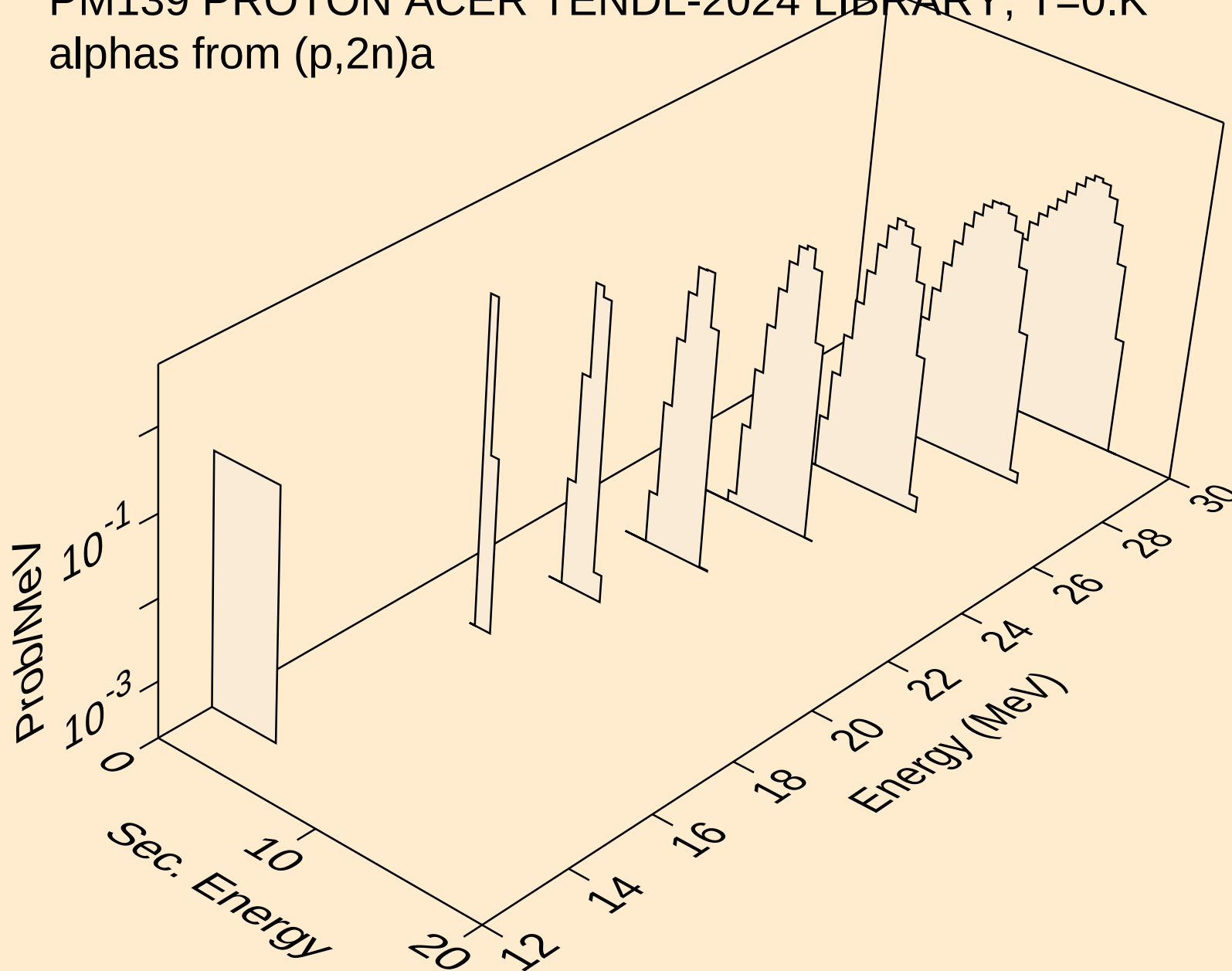
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alphas from (p,x)



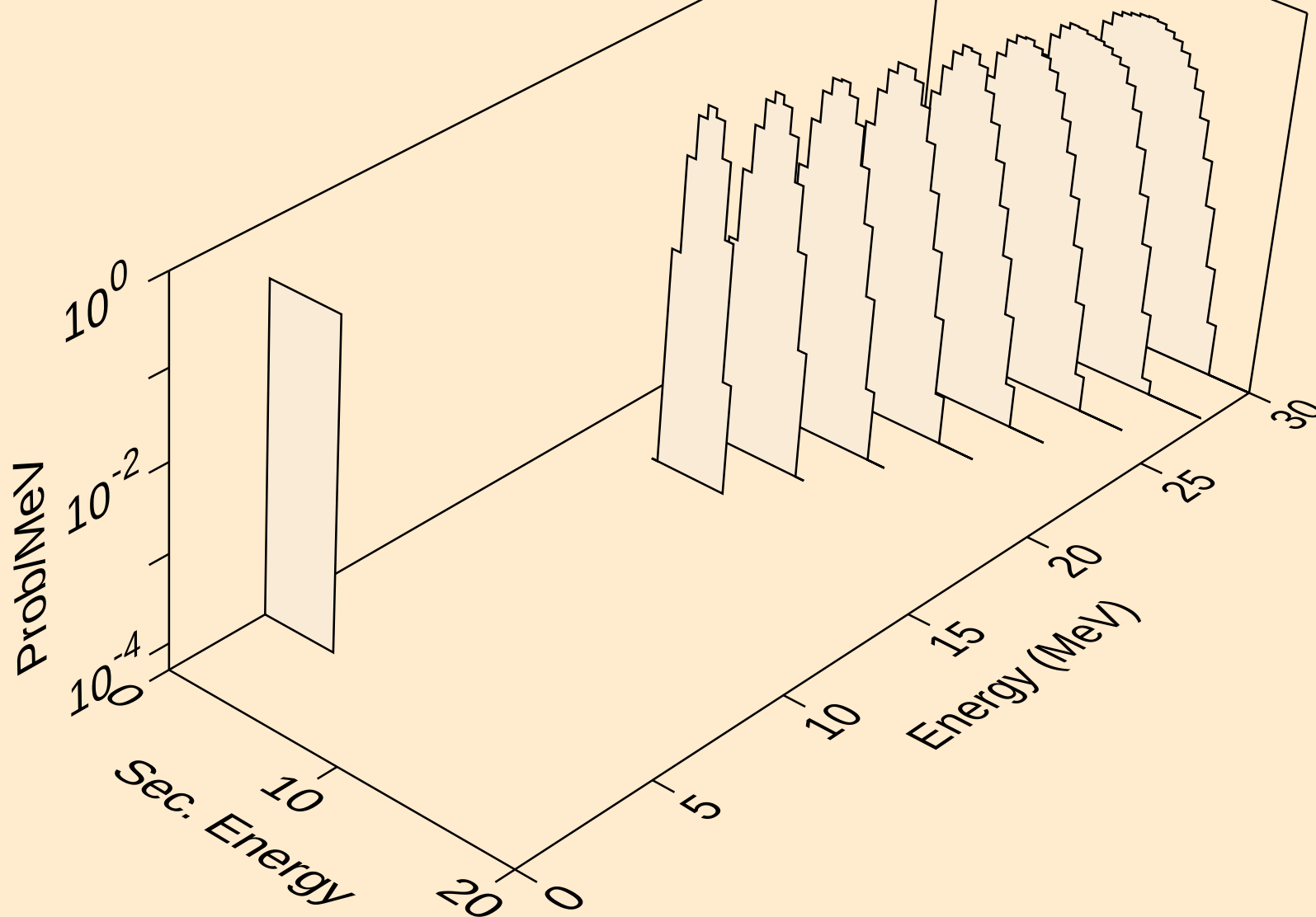
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alphas from (p,n*)a



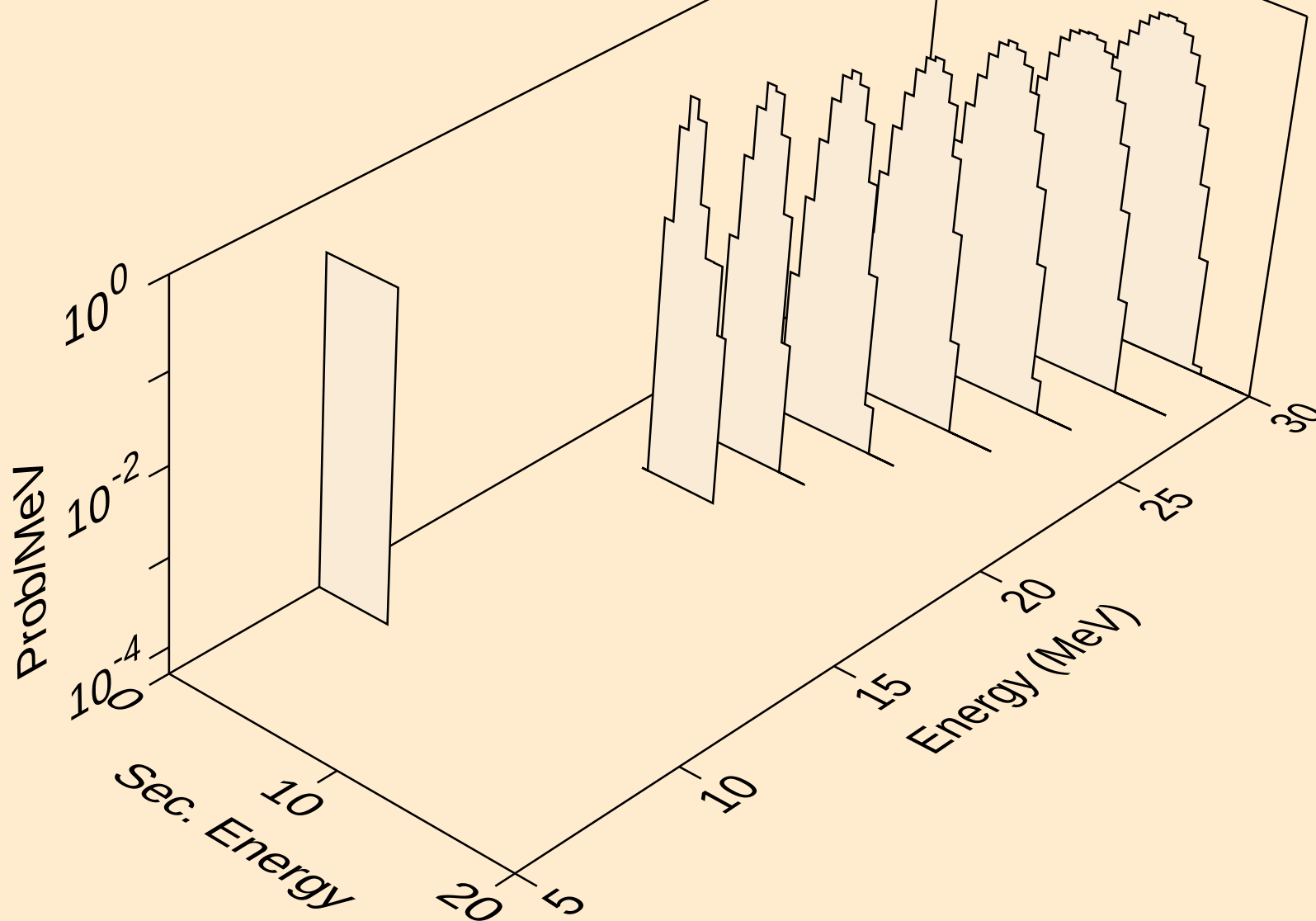
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alphas from (p,2n)a



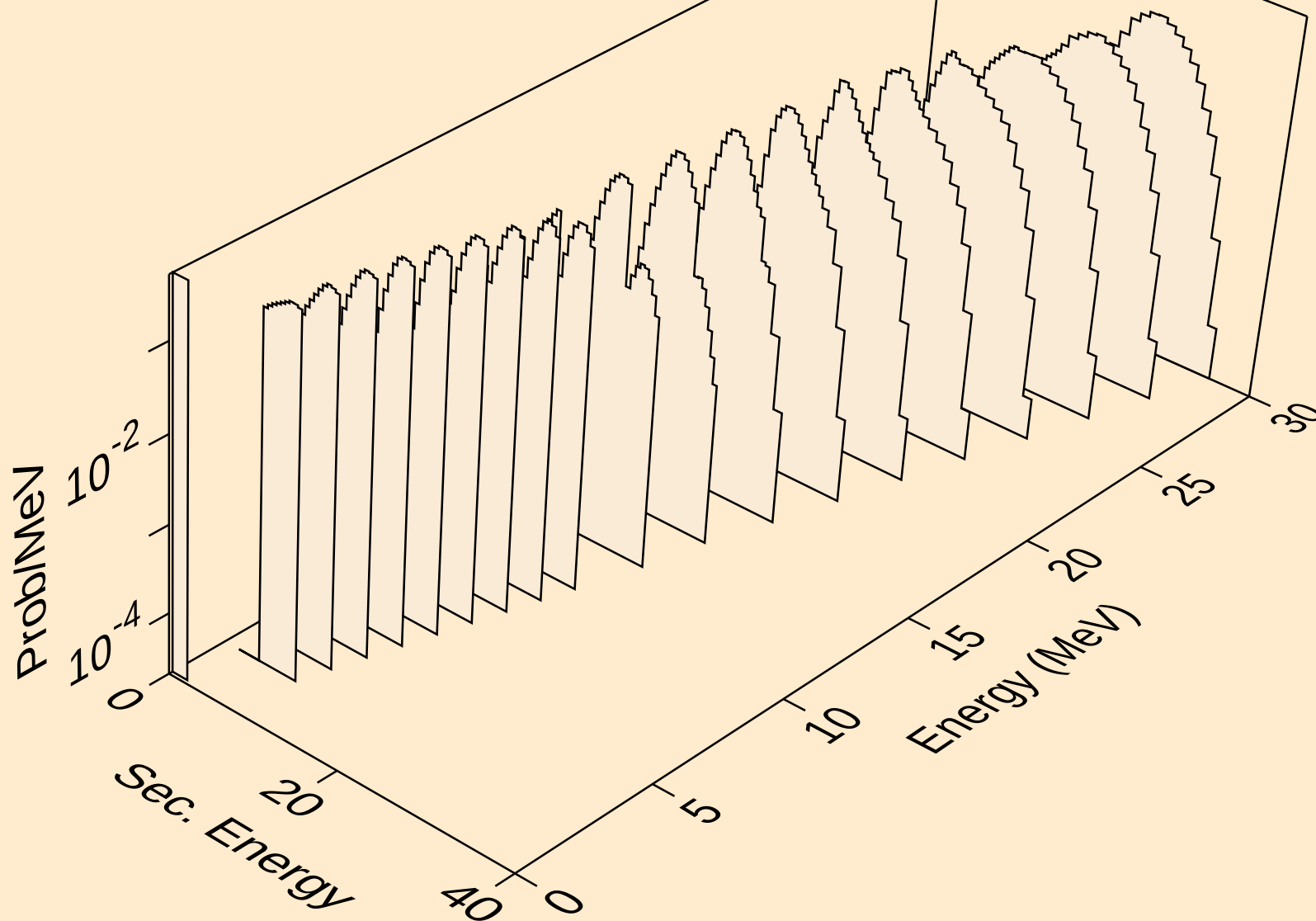
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alphas from (p,n*)2a



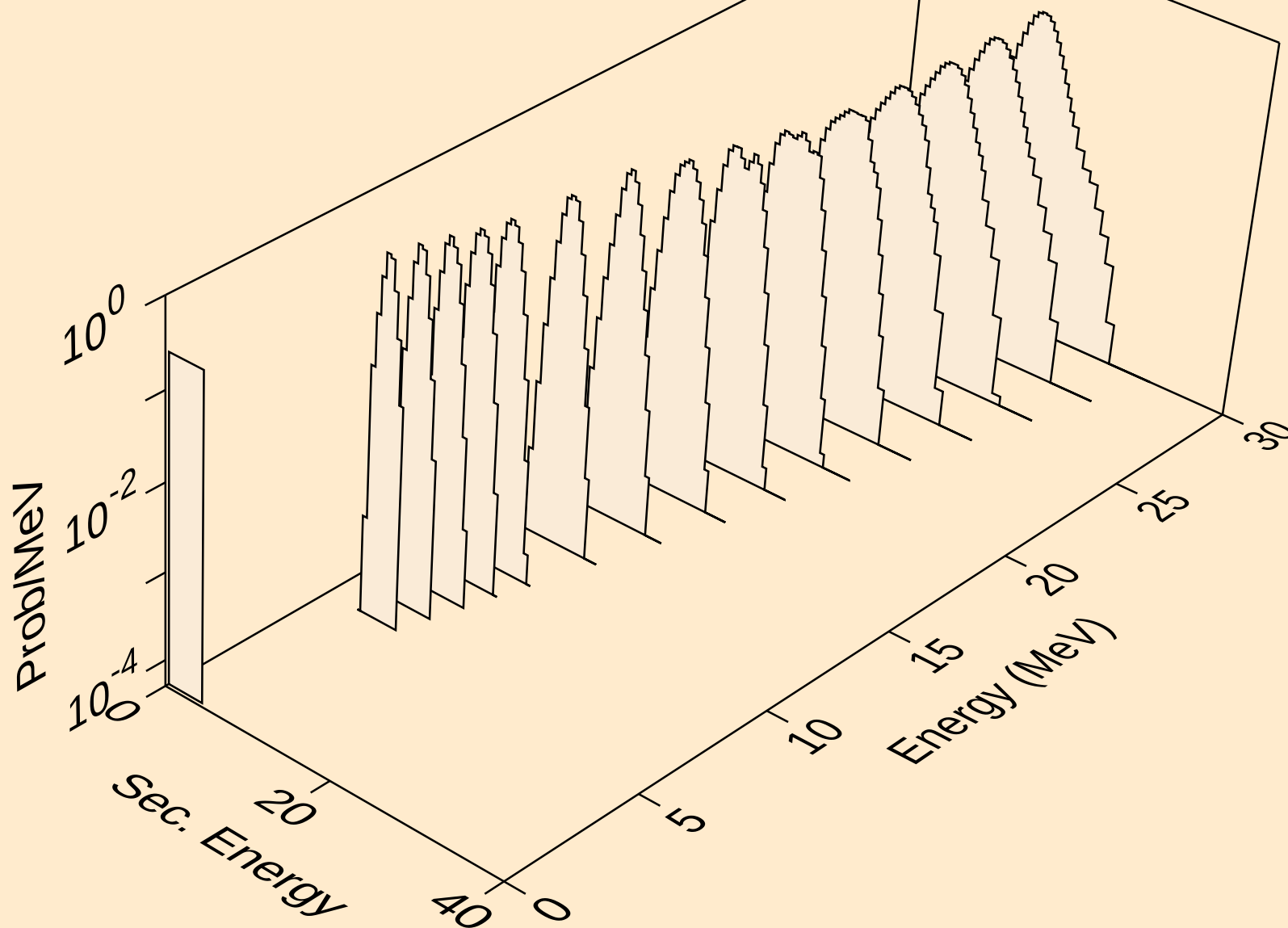
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alphas from (p,npa)



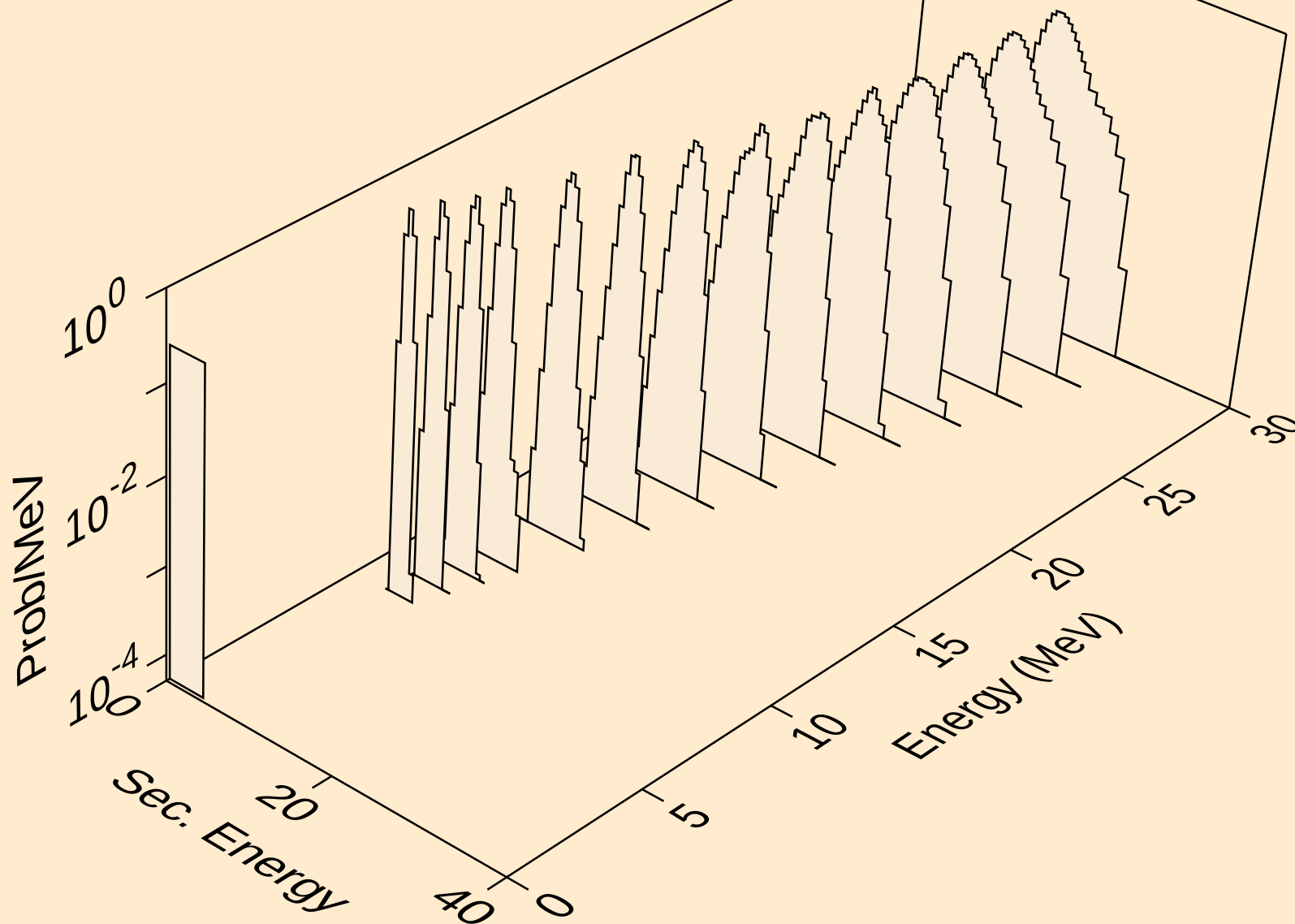
PM139 PROTON ACER TENDL-2024 LIBRARY; T=0.K
alphas from (p,a)



PM139 PROTON ACER TENDL-2024 LIBRARY; T=0.K
alphas from (p,2a)



PM139 PROTON ACER TENDL-2024 LIBRARY; T=0.K
alphas from (p,pa)



PM139 PROTON ACER TENDL-2024 LIBRARY; T=0.K
alphas from (p,da)

