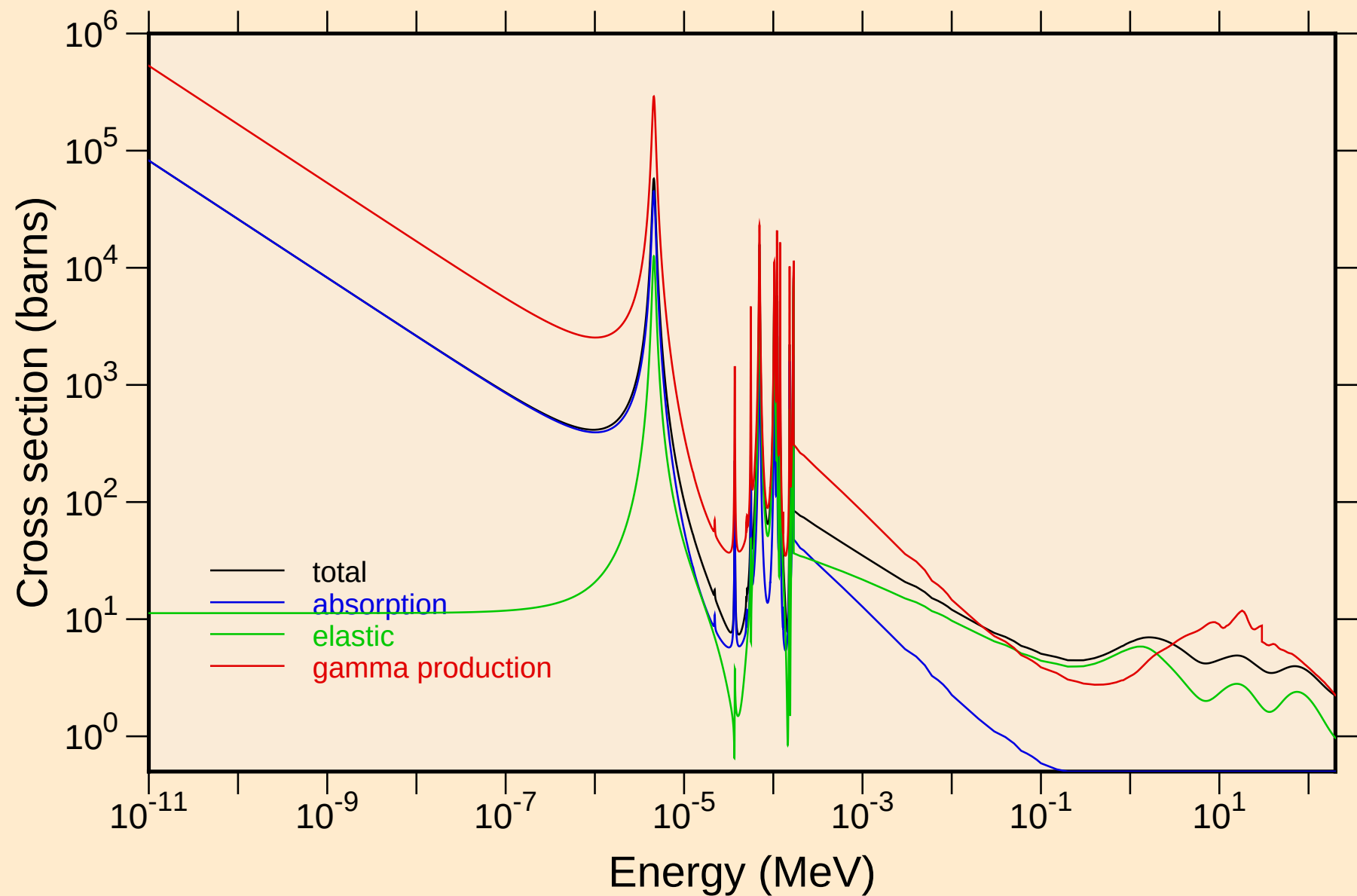
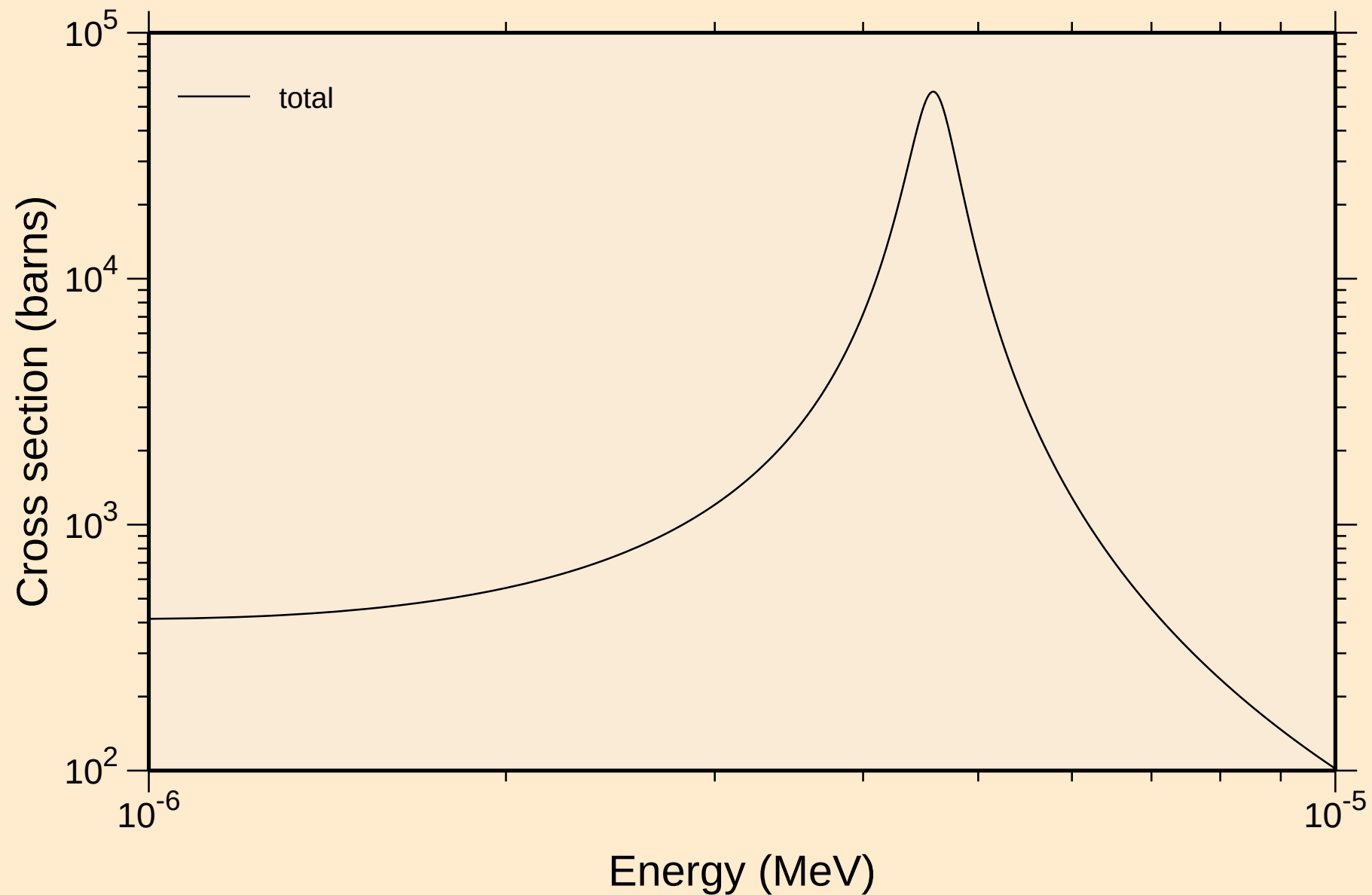


CE139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

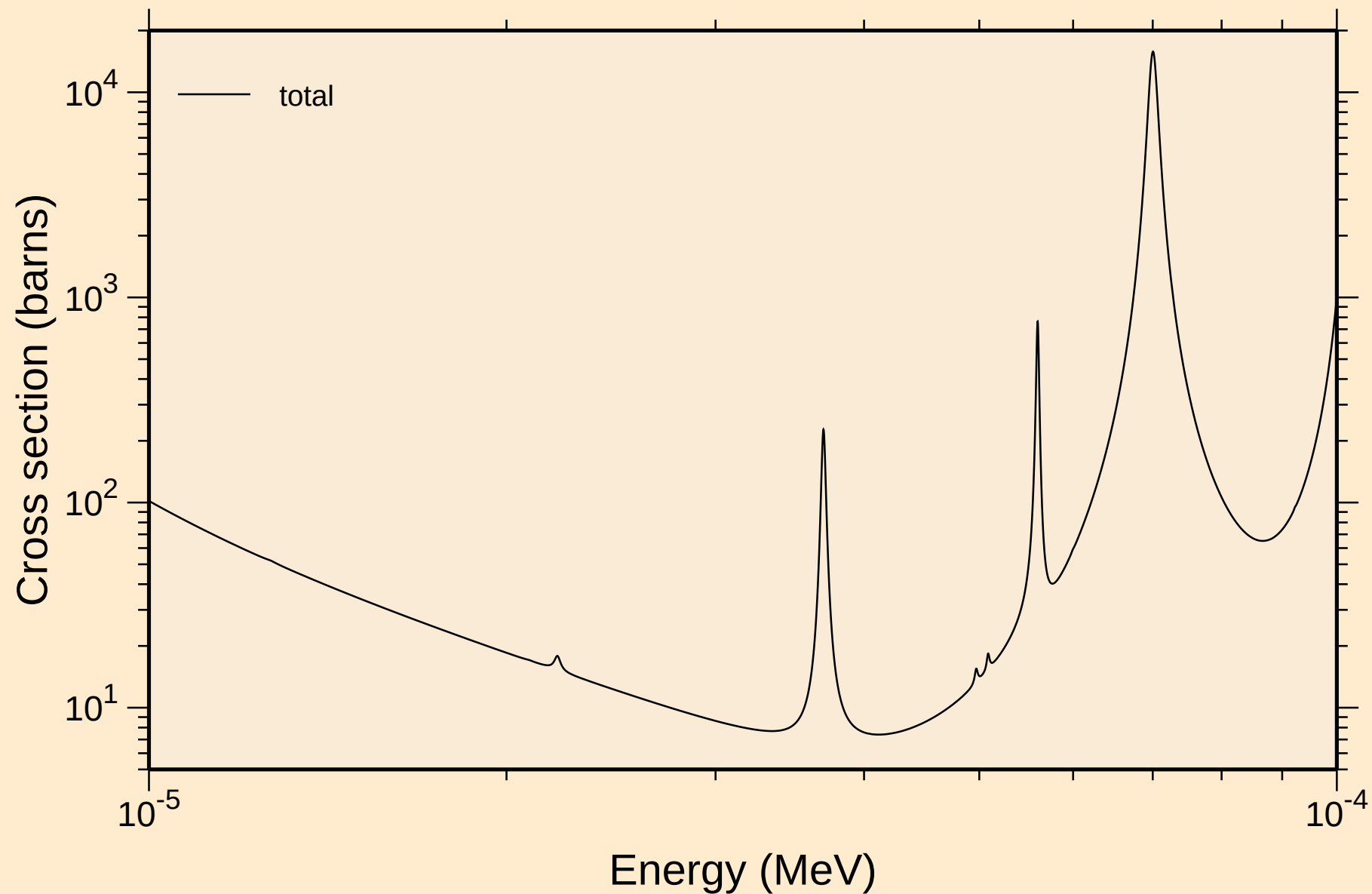
Principal cross sections



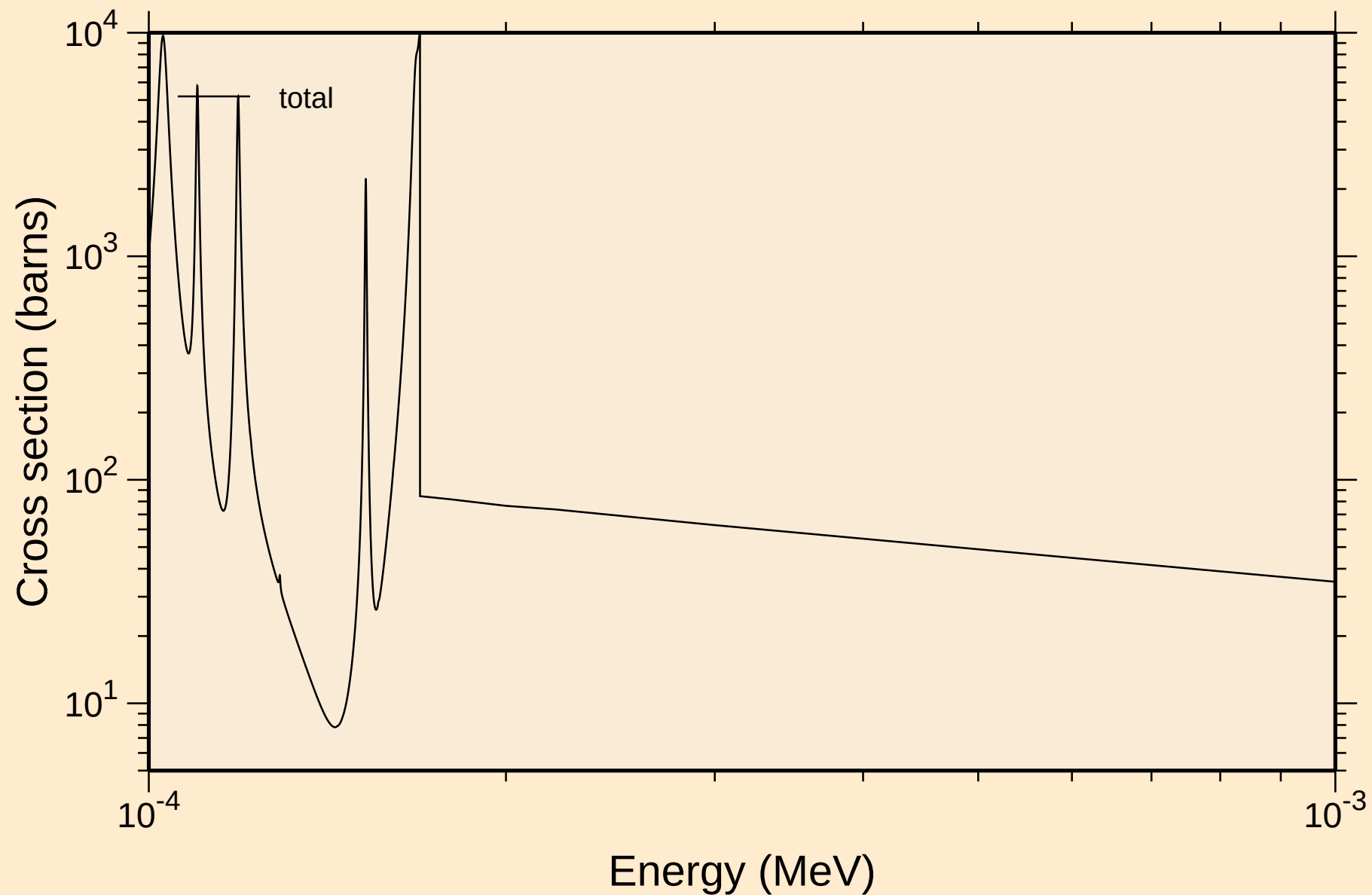
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resonance total cross section



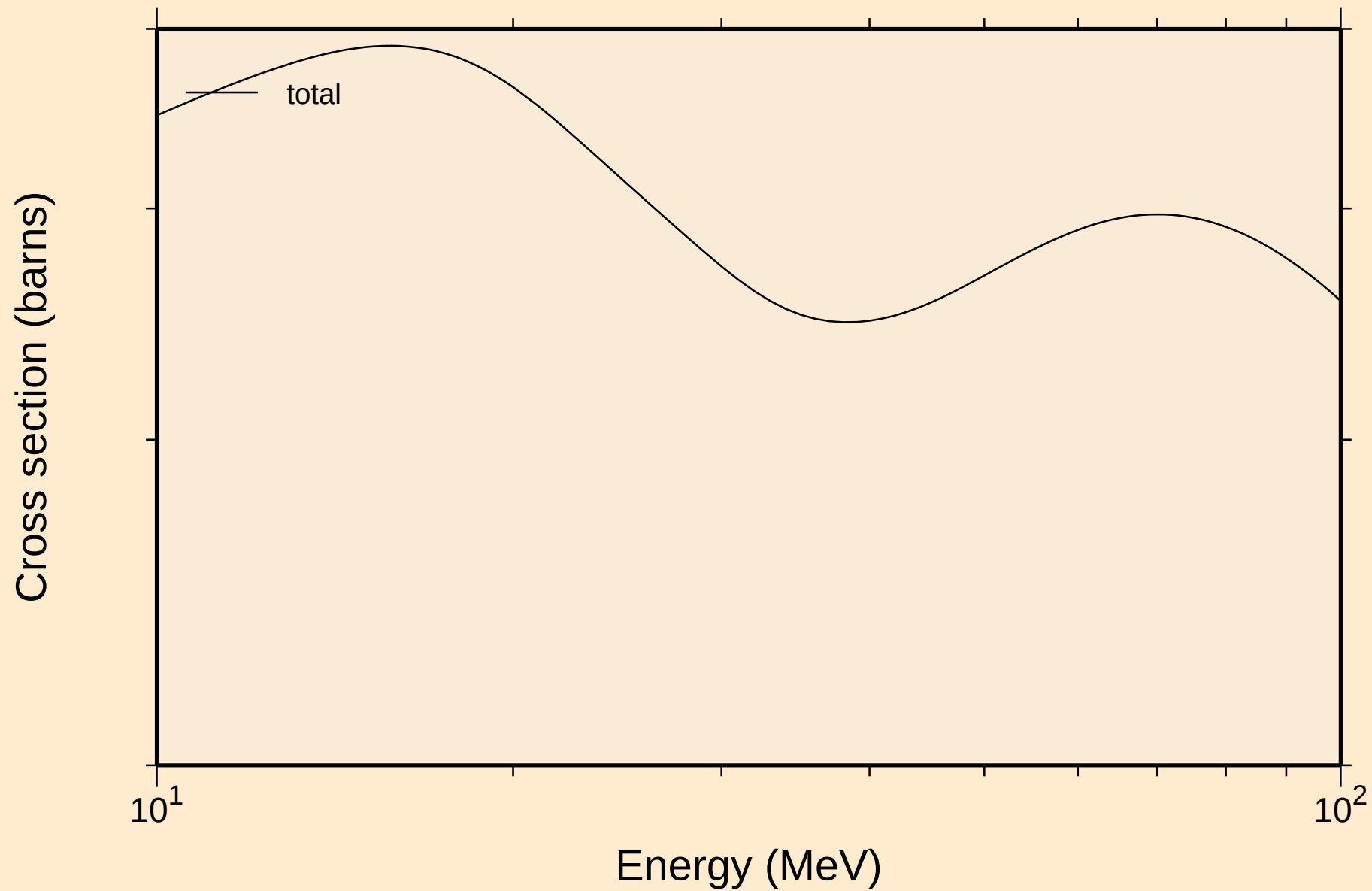
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resonance total cross section



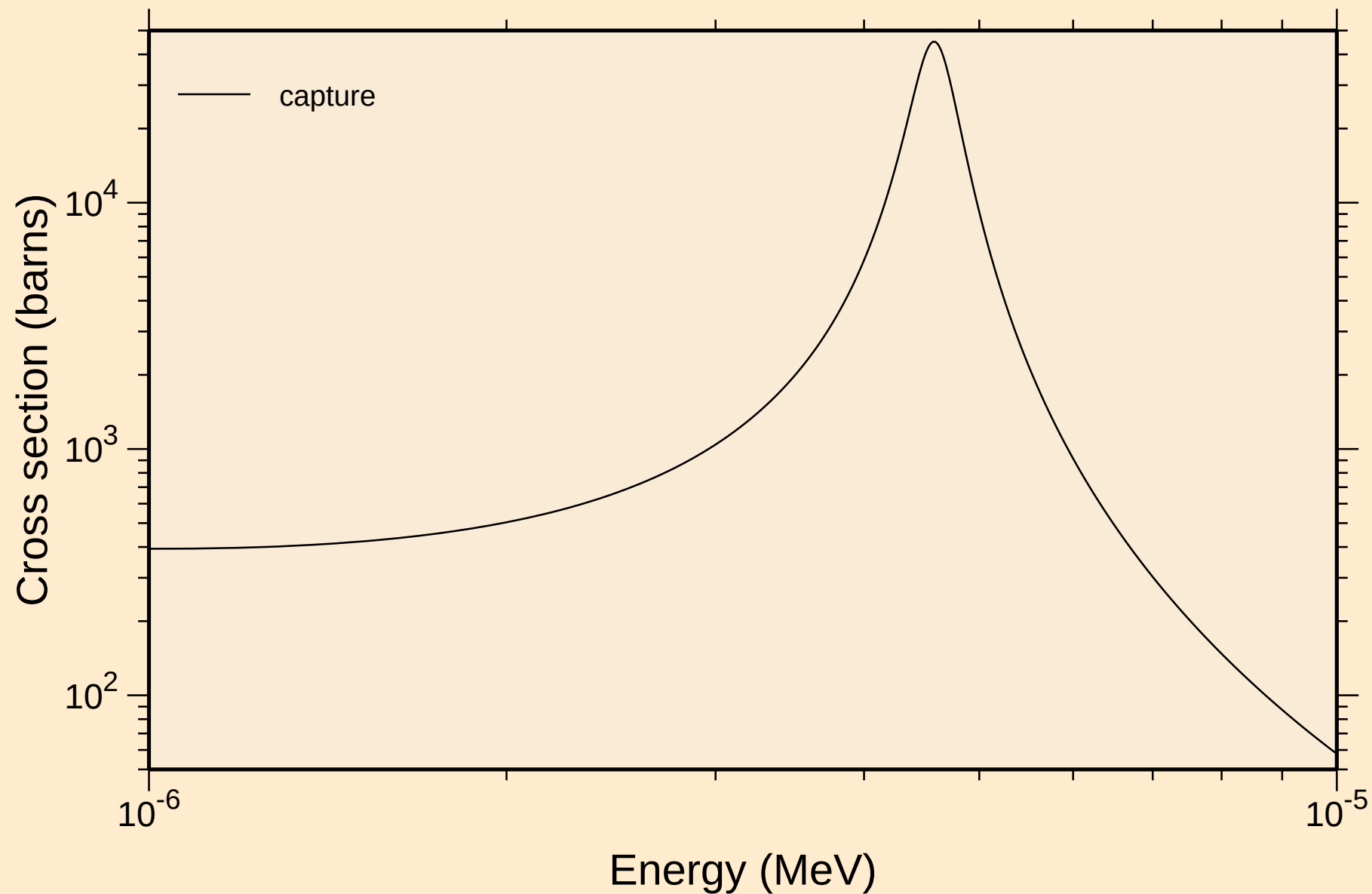
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resonance total cross section



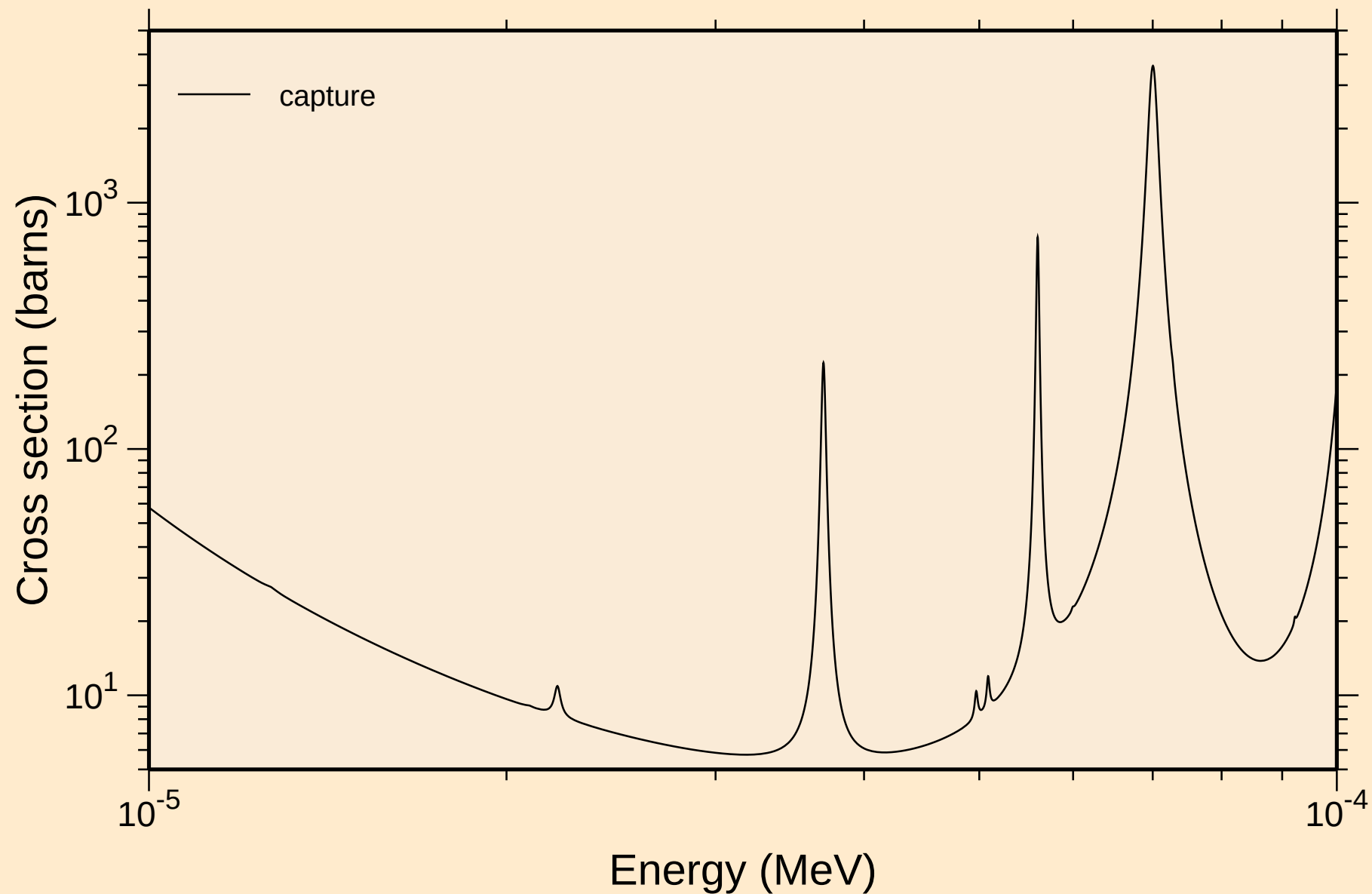
C¹³⁹M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
resonance total cross section



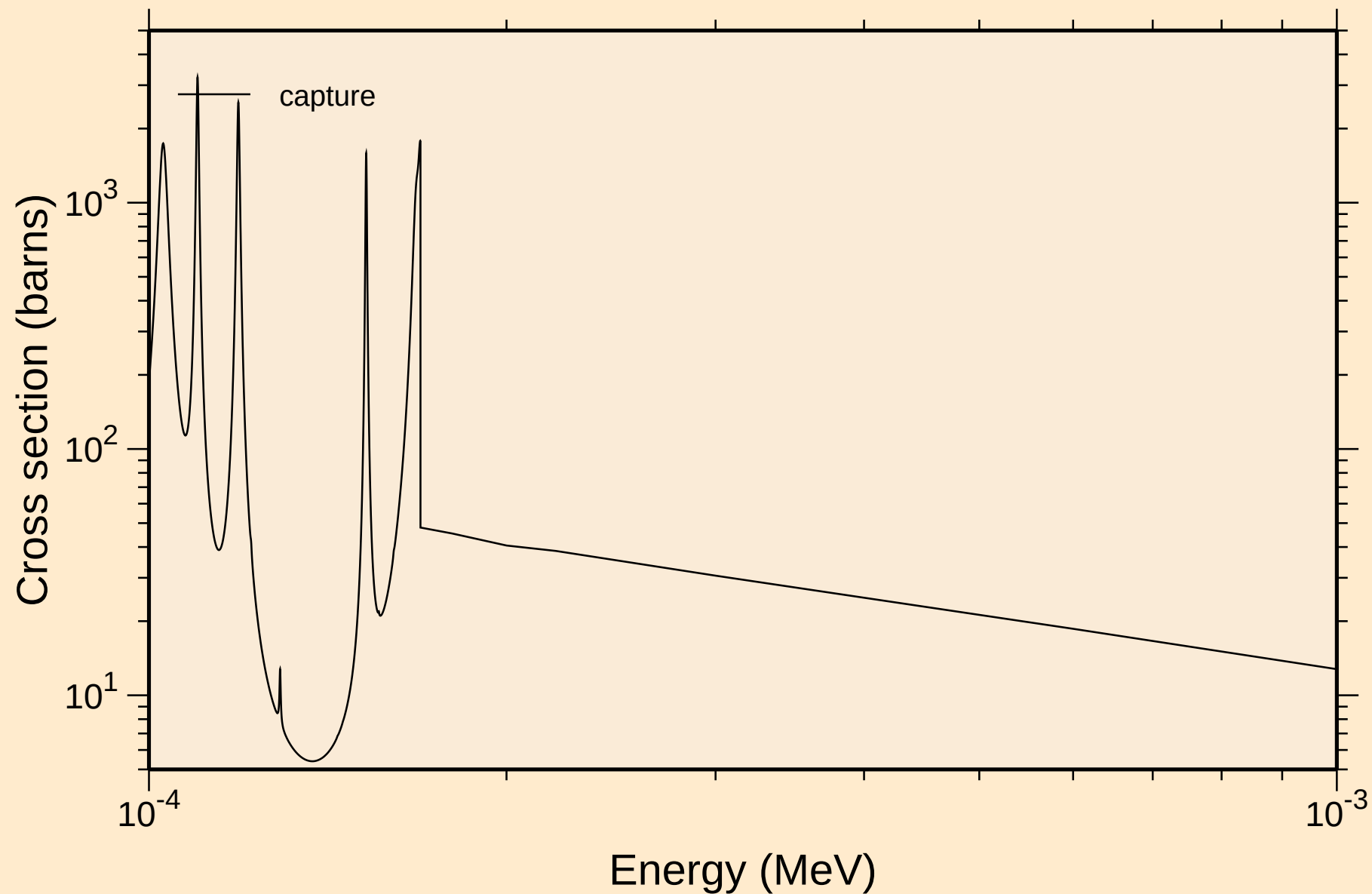
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resonance absorption cross sections



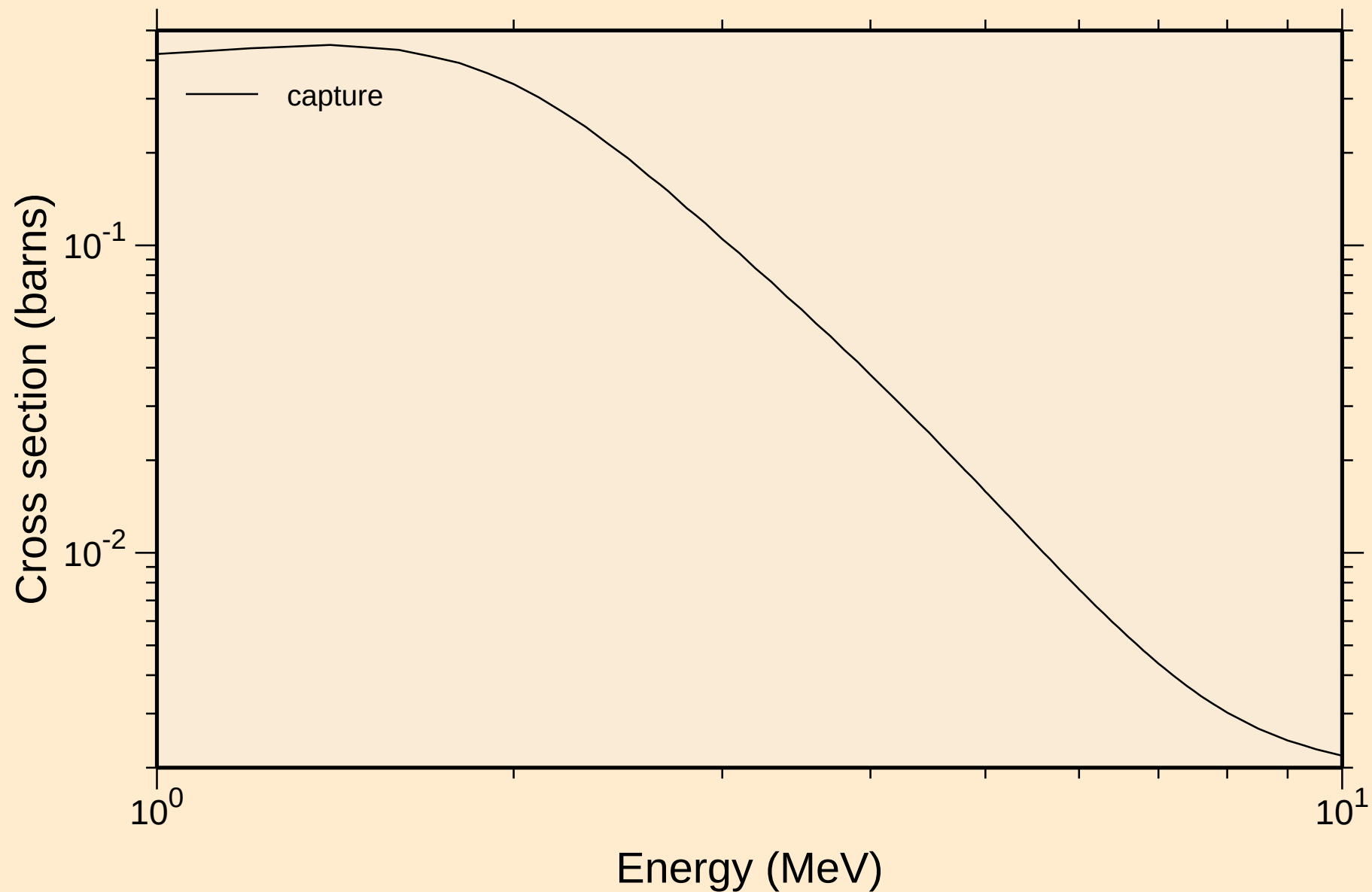
CE139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
resonance absorption cross sections



CE139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
resonance absorption cross sections

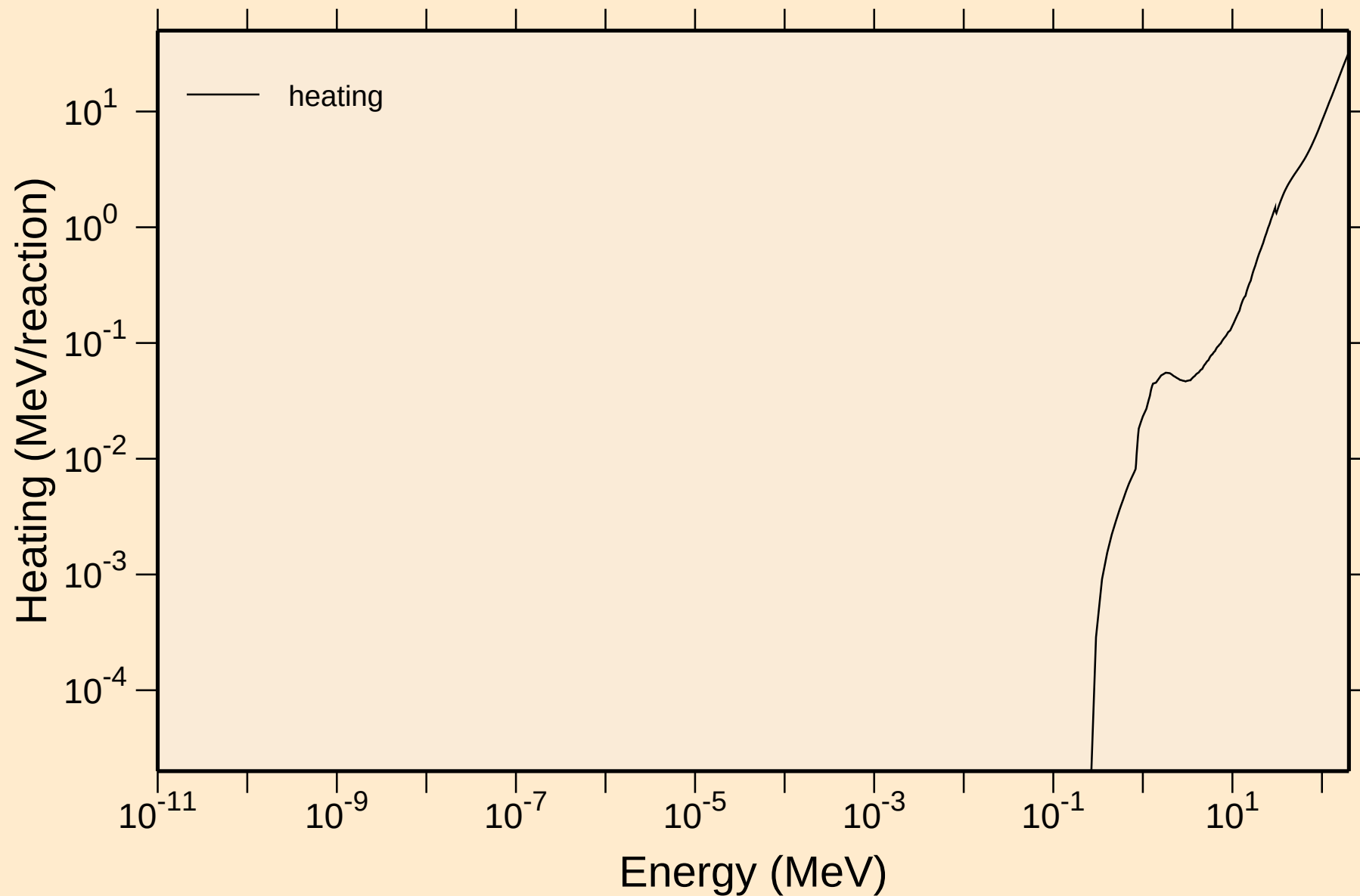


CE139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
resonance absorption cross sections



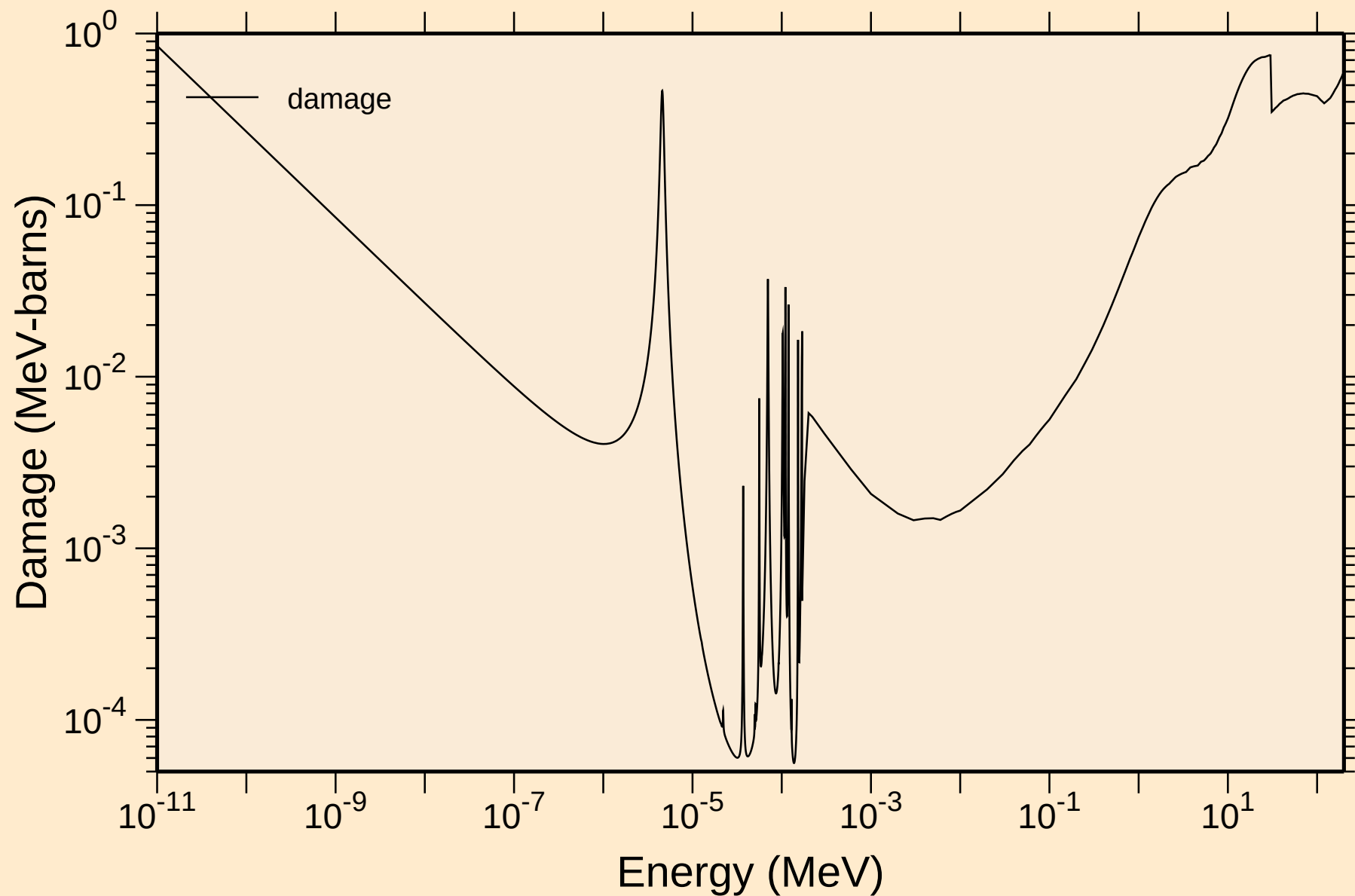
CE139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

Heating

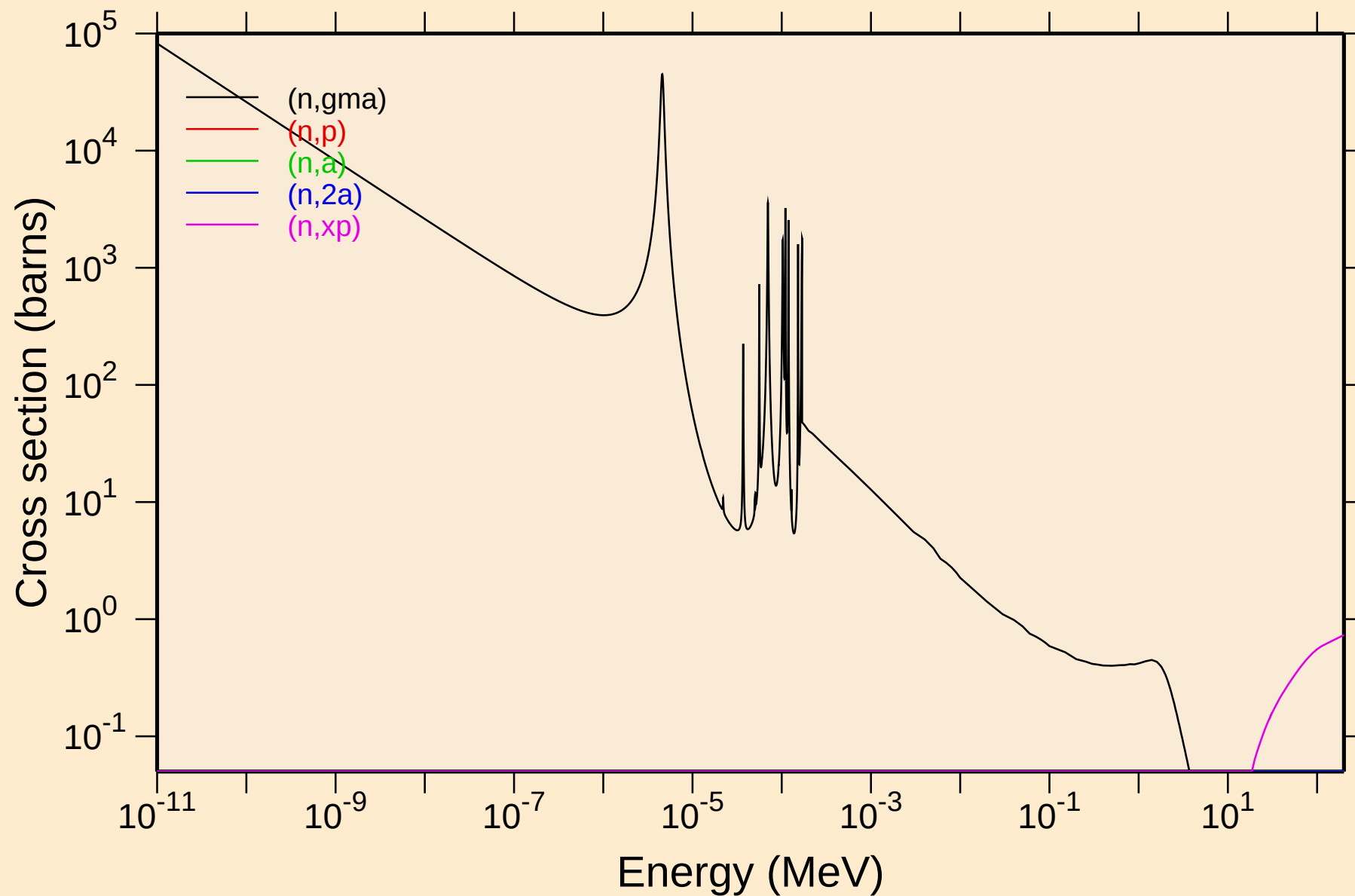


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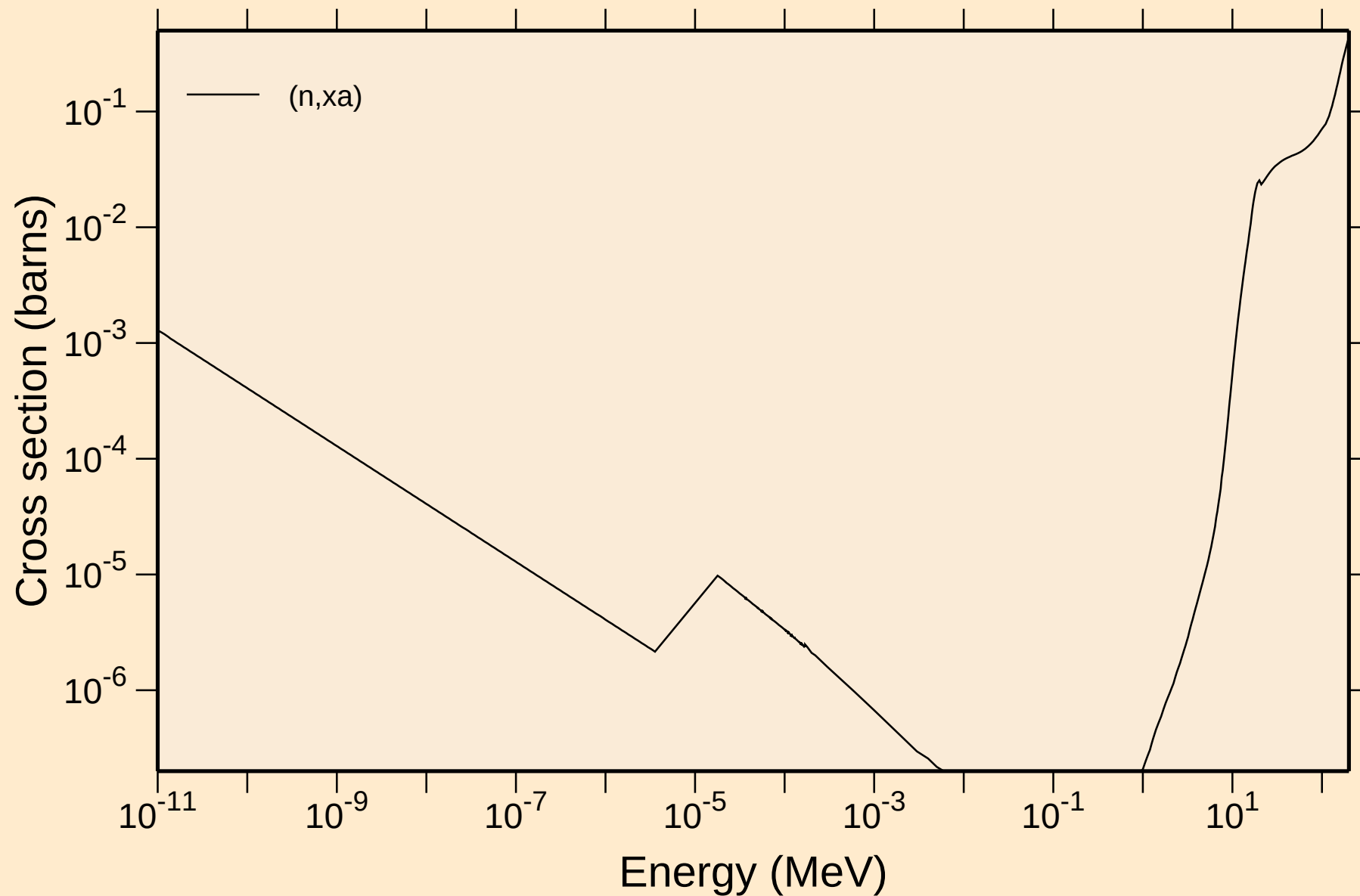
Damage



CE139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Non-threshold reactions

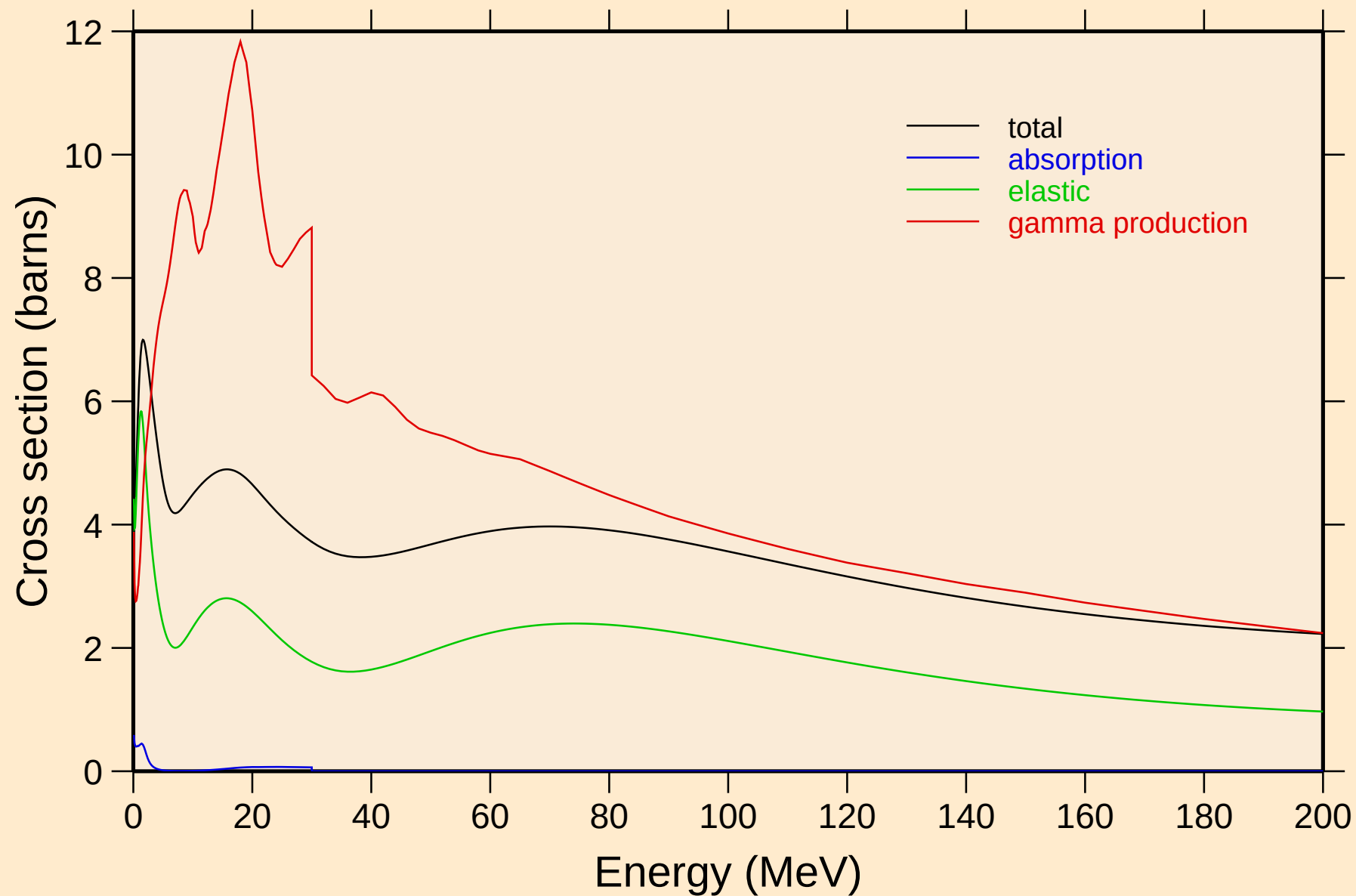


CE139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Non-threshold reactions



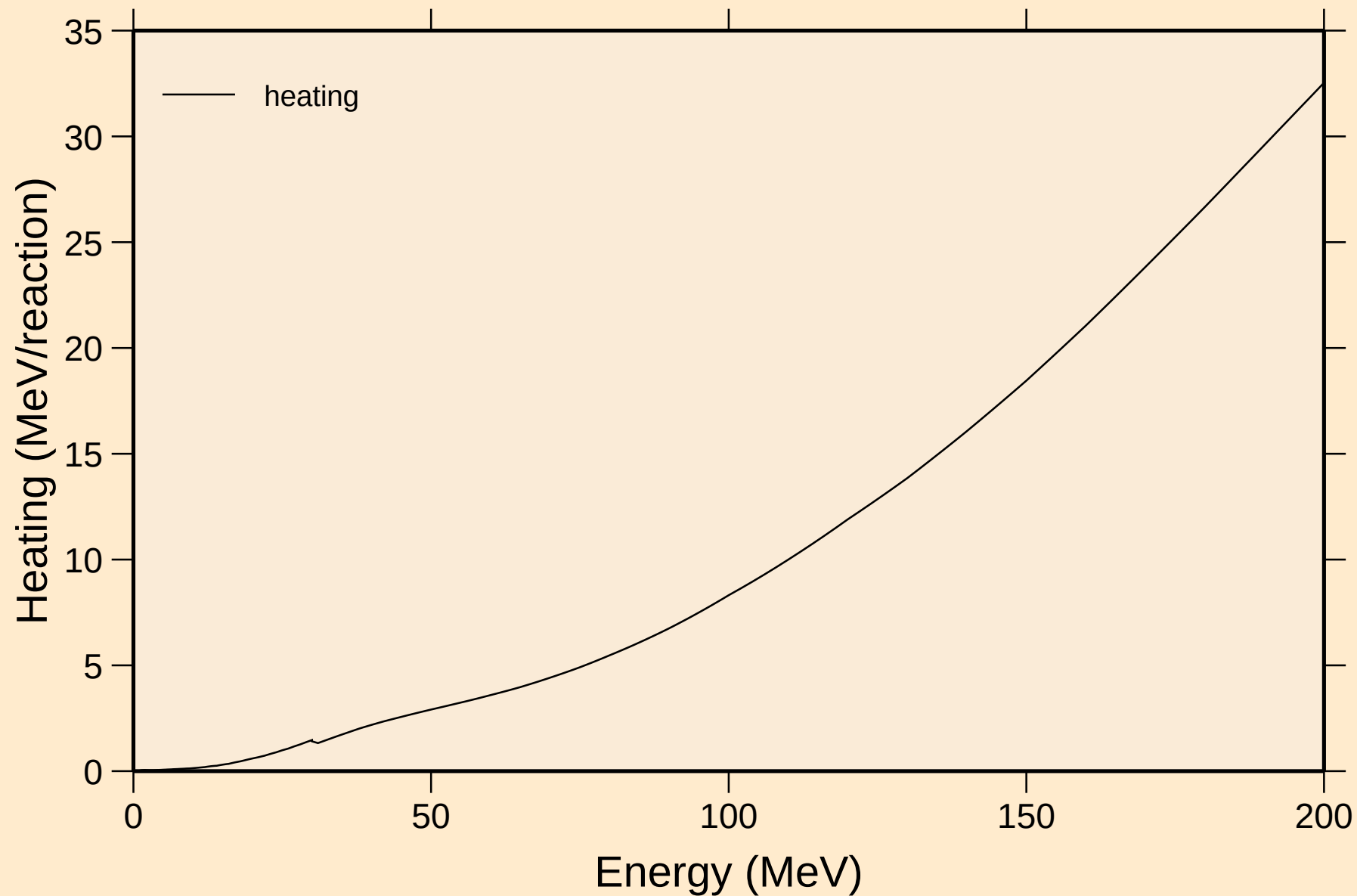
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Principal cross sections



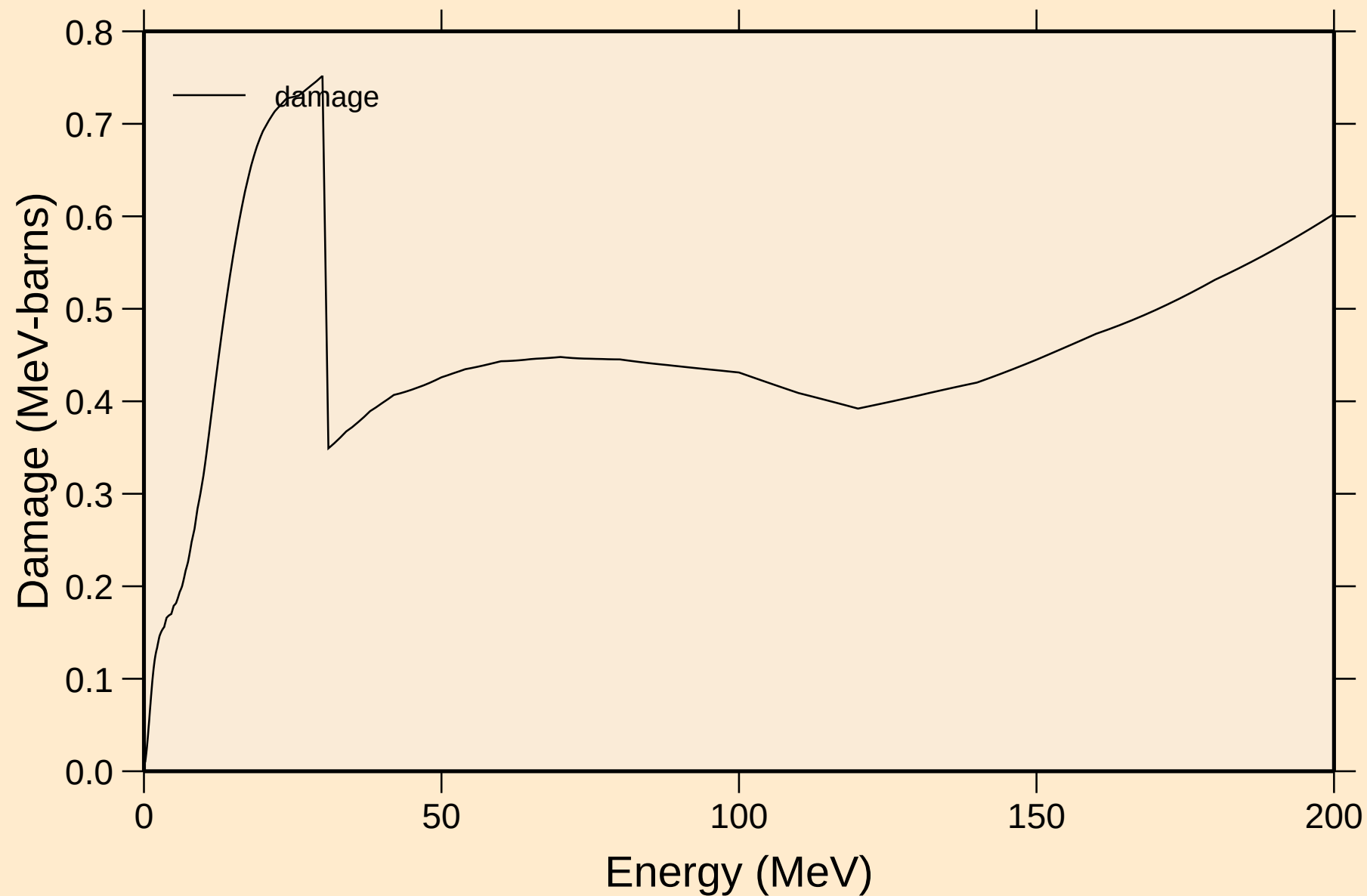
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Heating

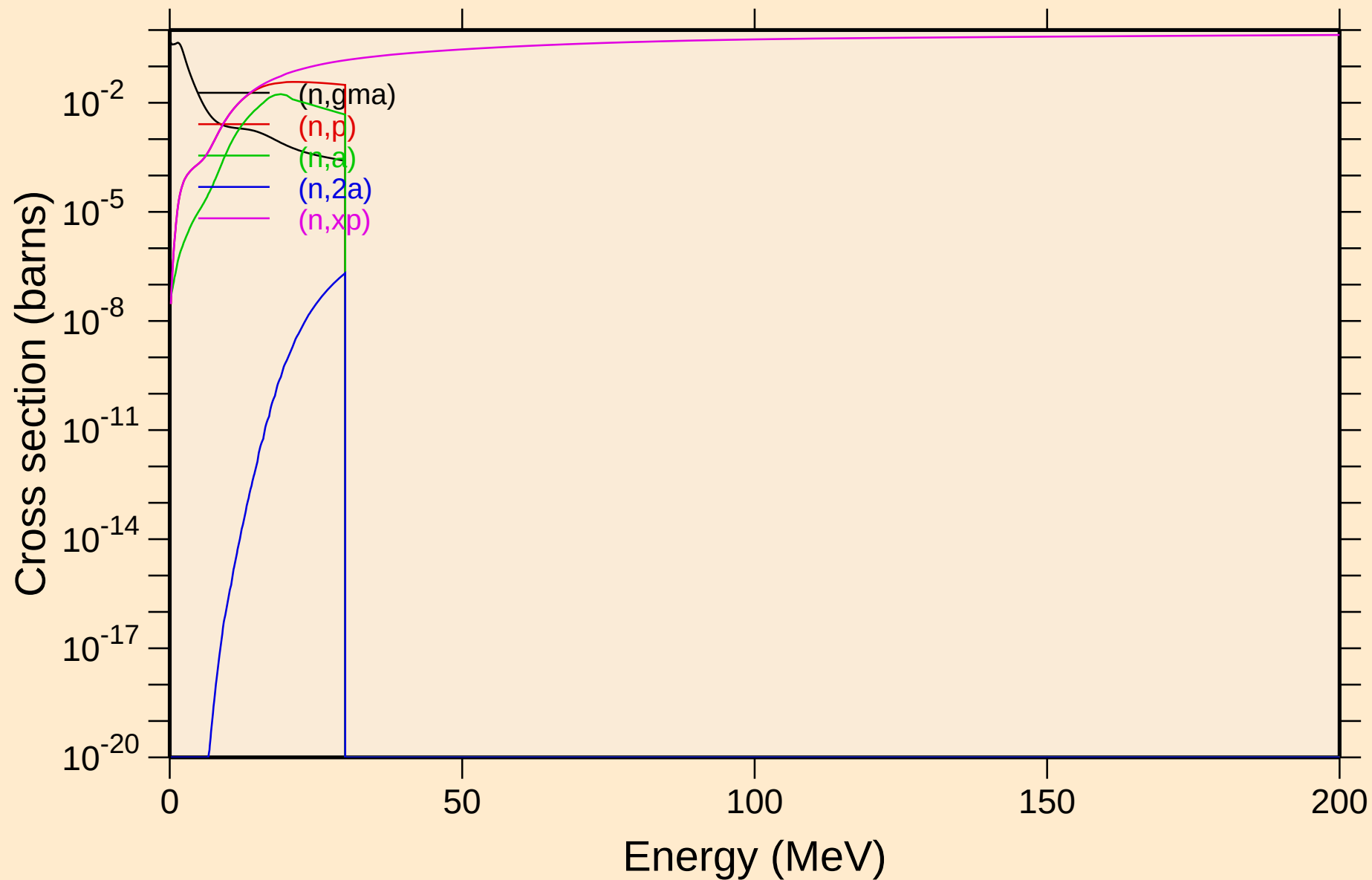


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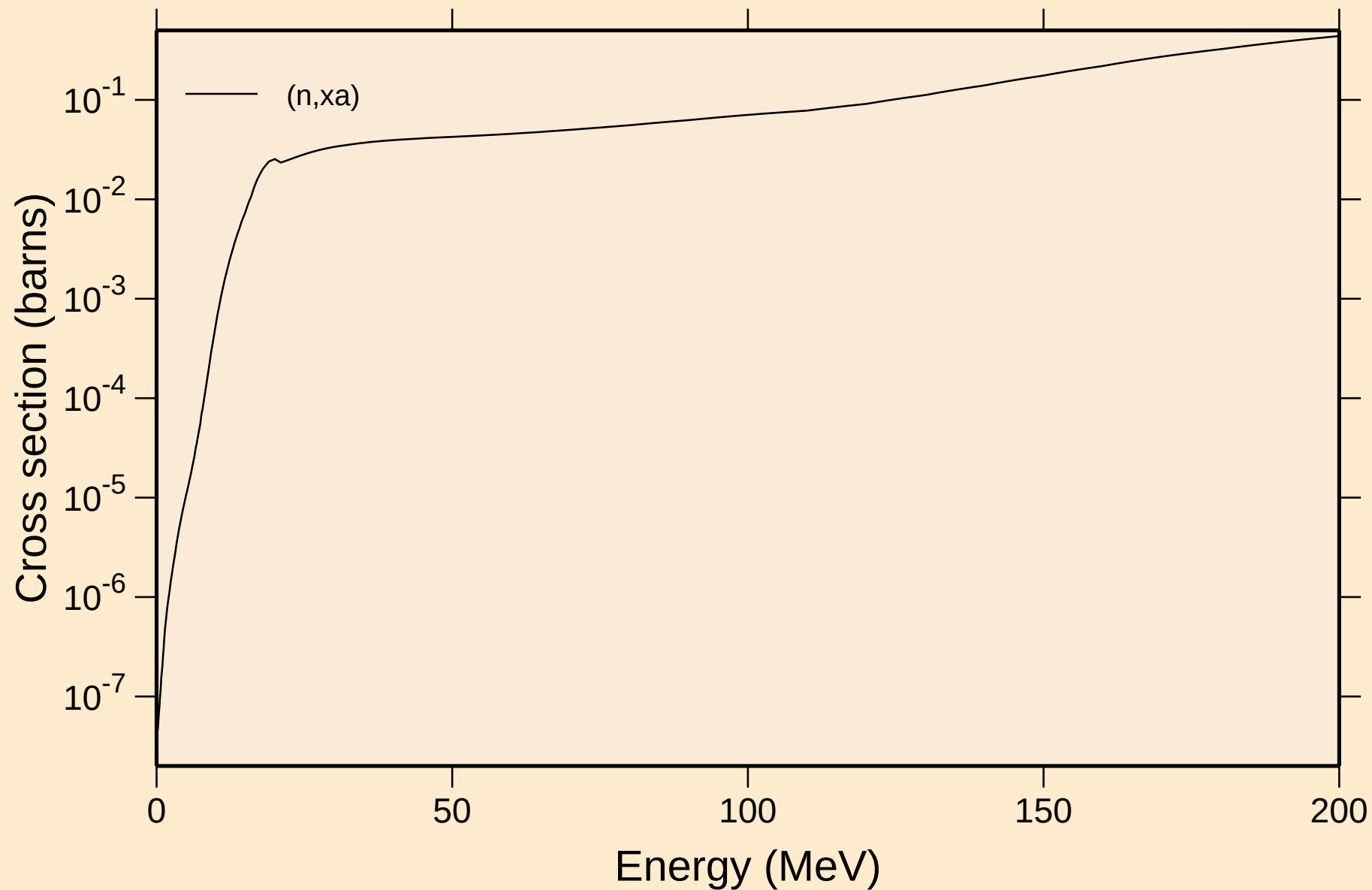
Damage



CE139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Non-threshold reactions

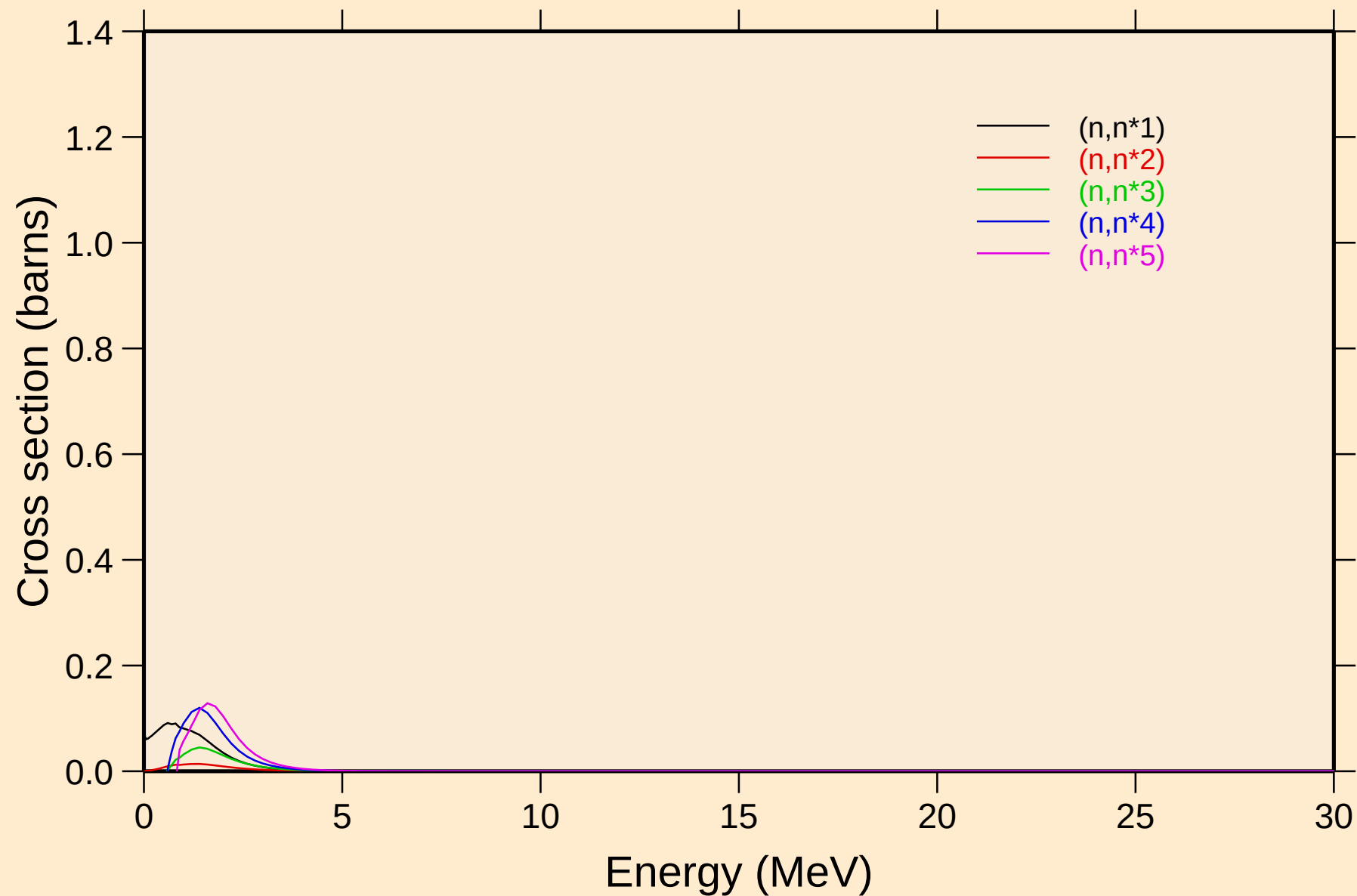


CE139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Non-threshold reactions



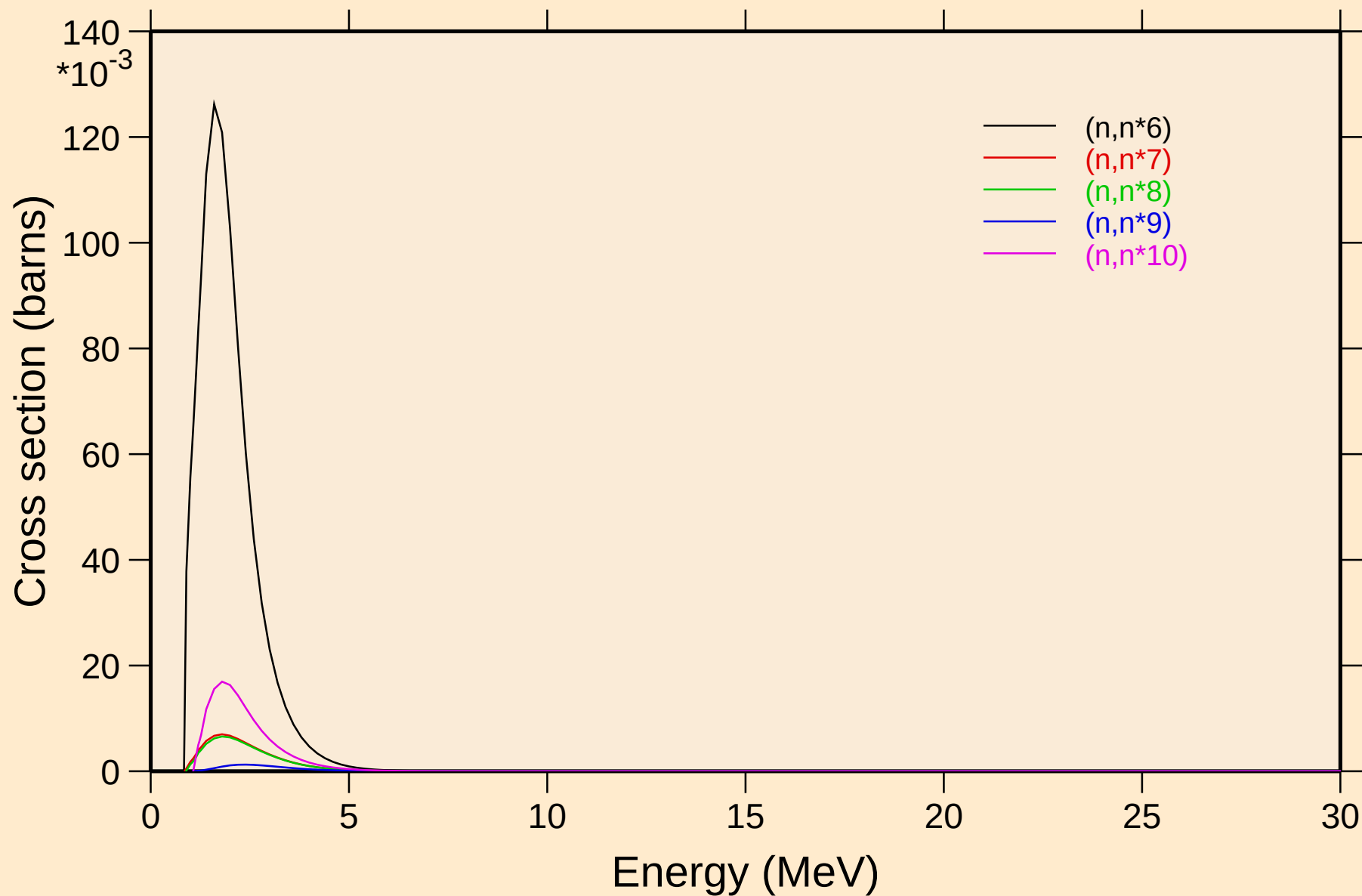
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Inelastic levels



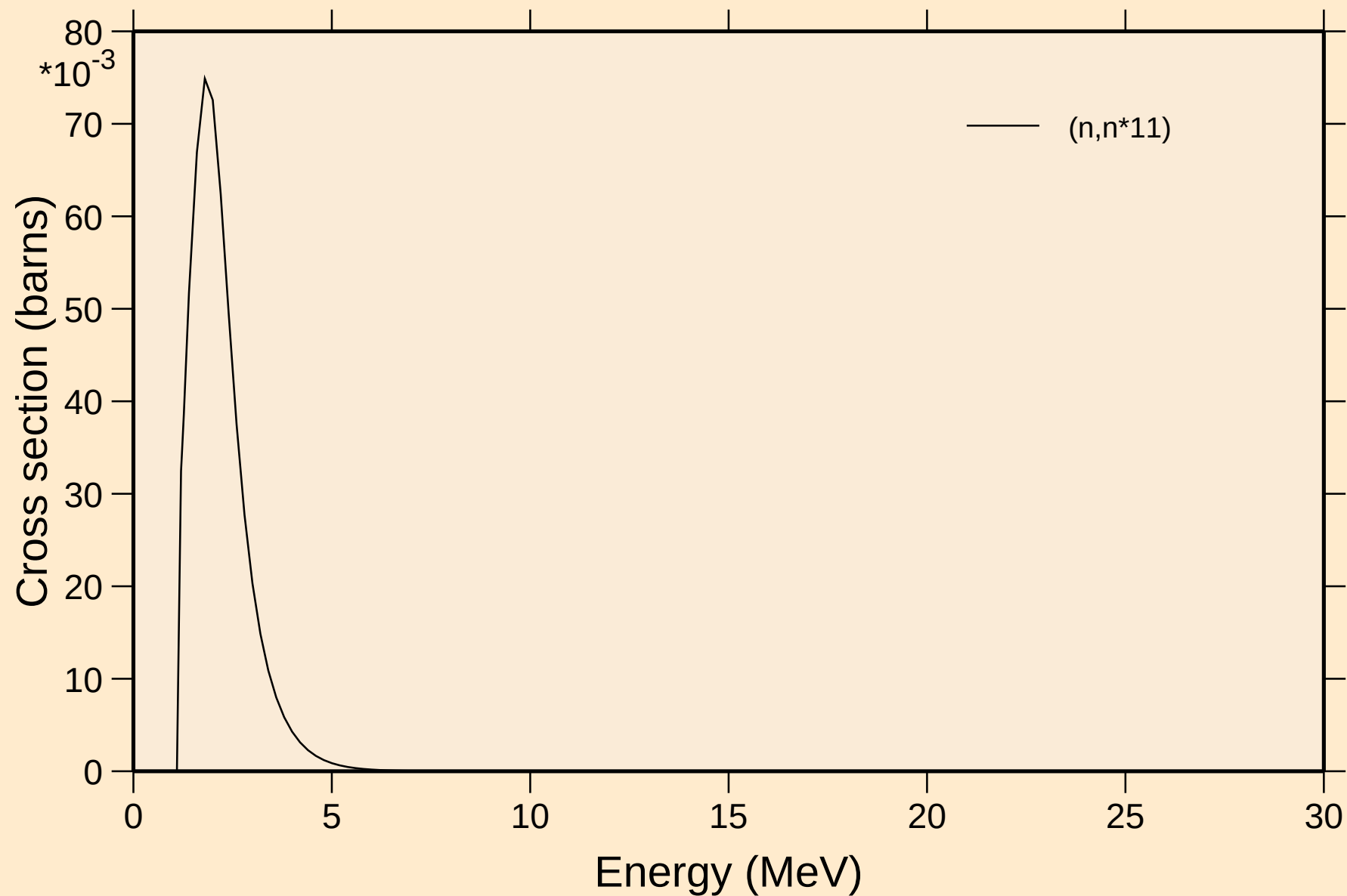
CE139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

Inelastic levels



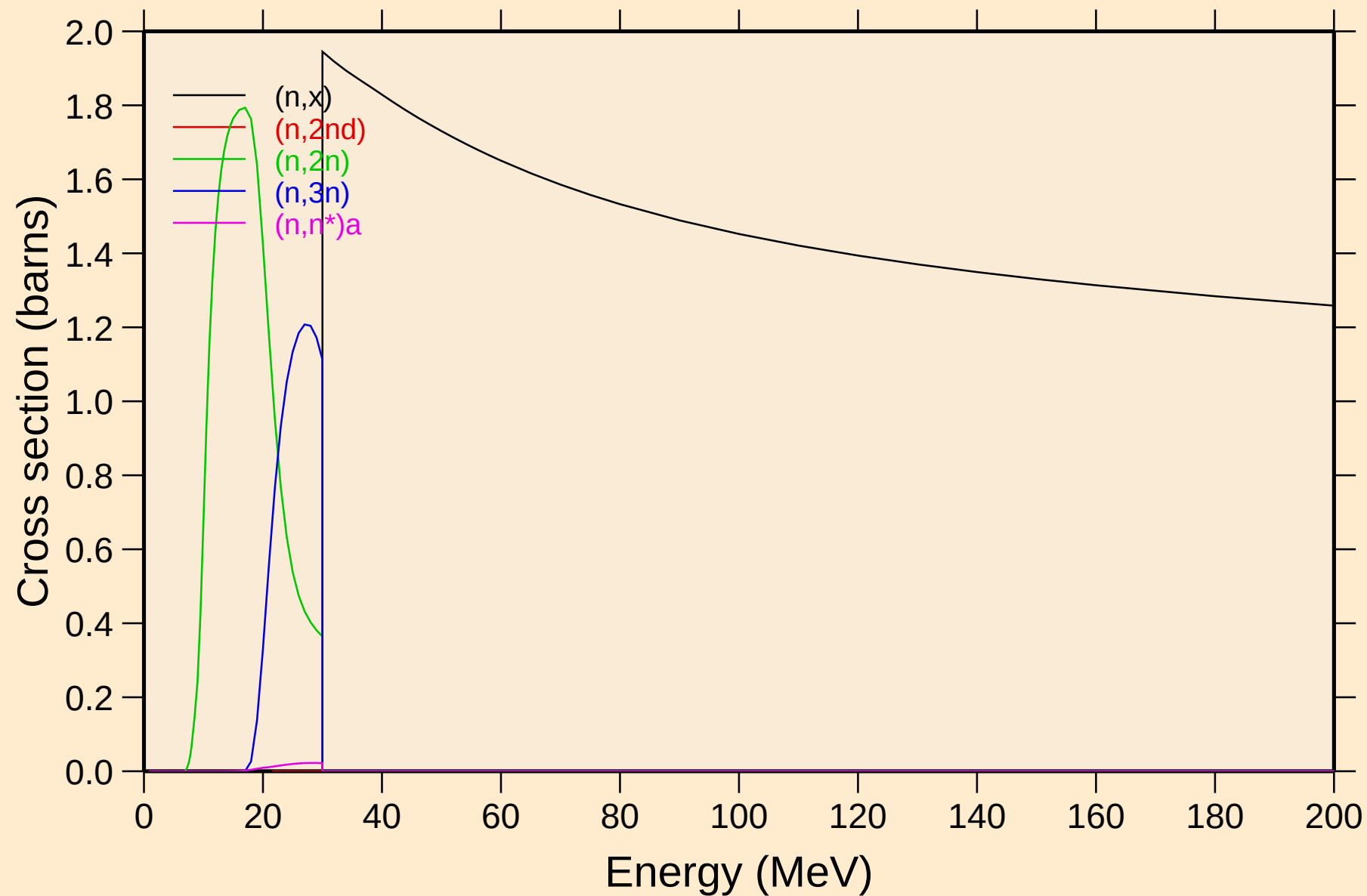
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Inelastic levels

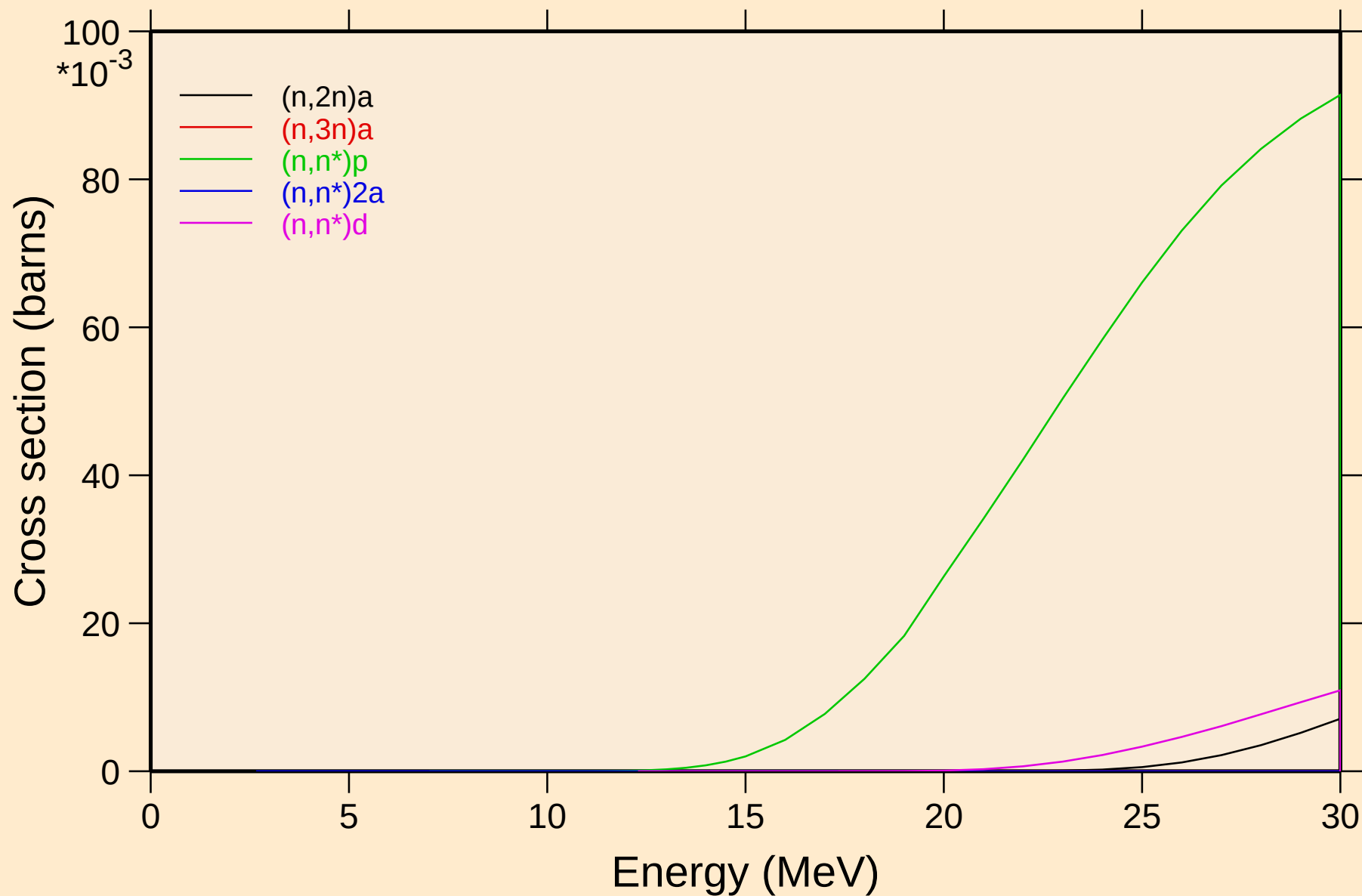


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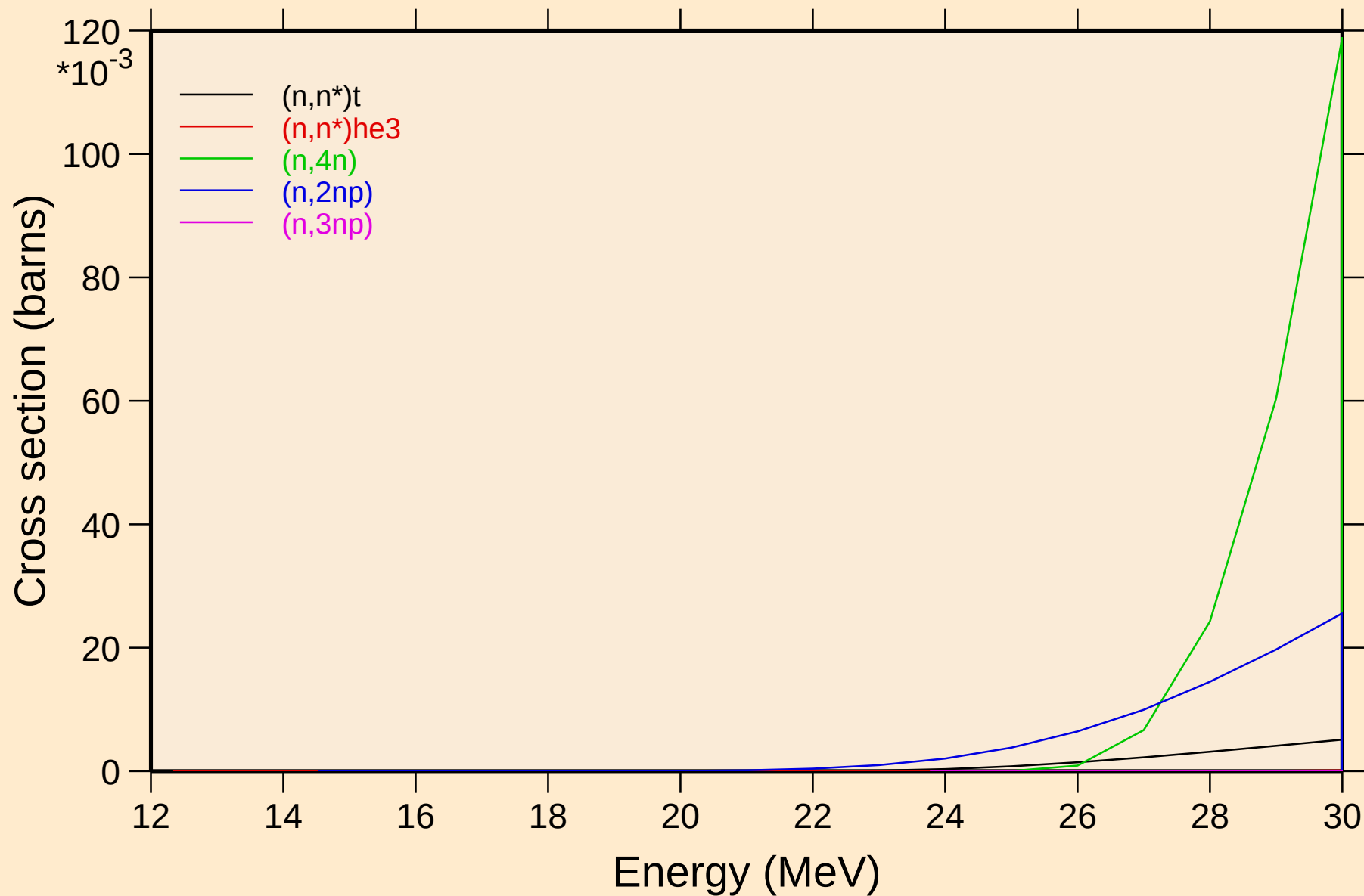
Threshold reactions



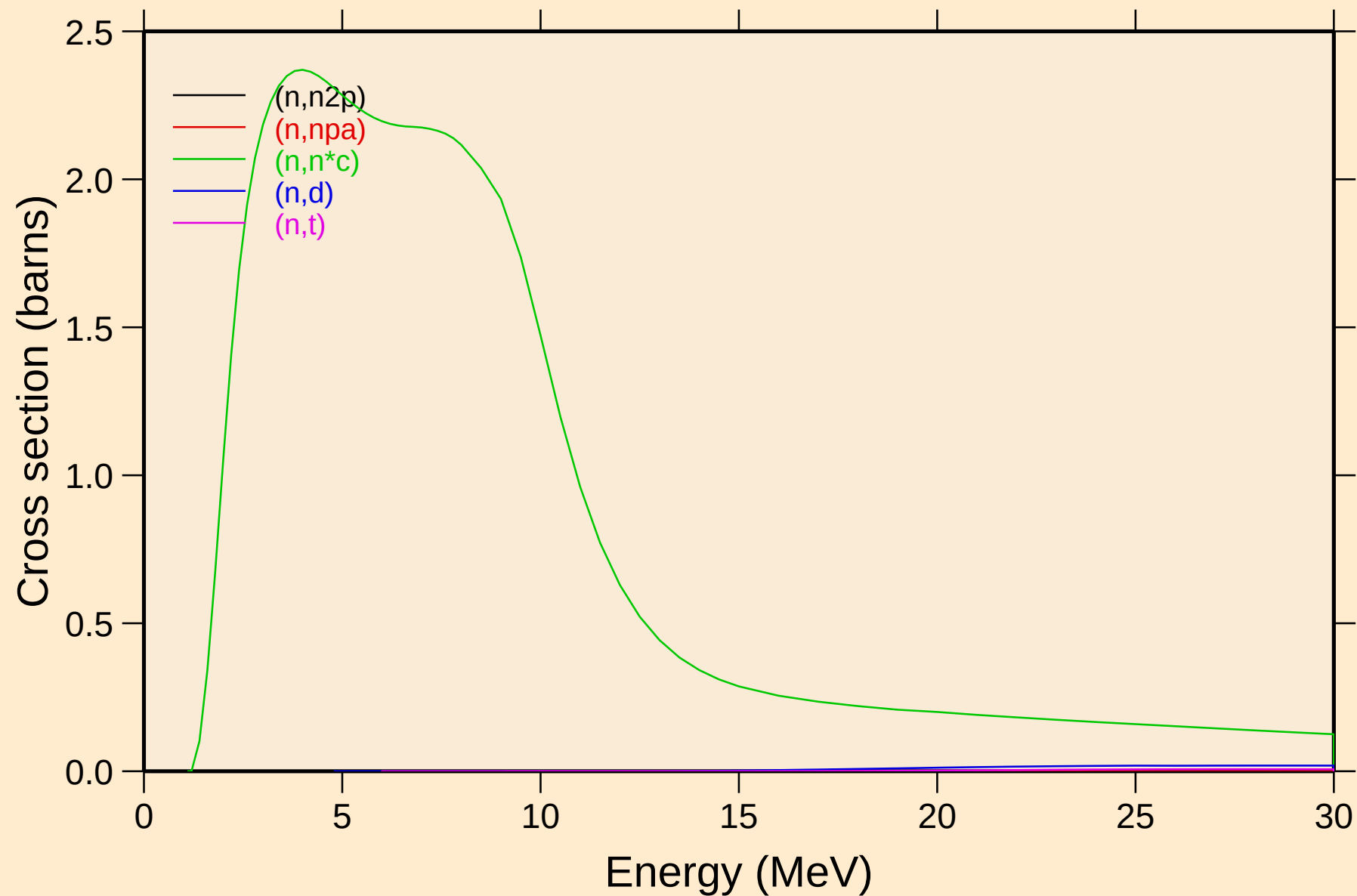
CE139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Threshold reactions



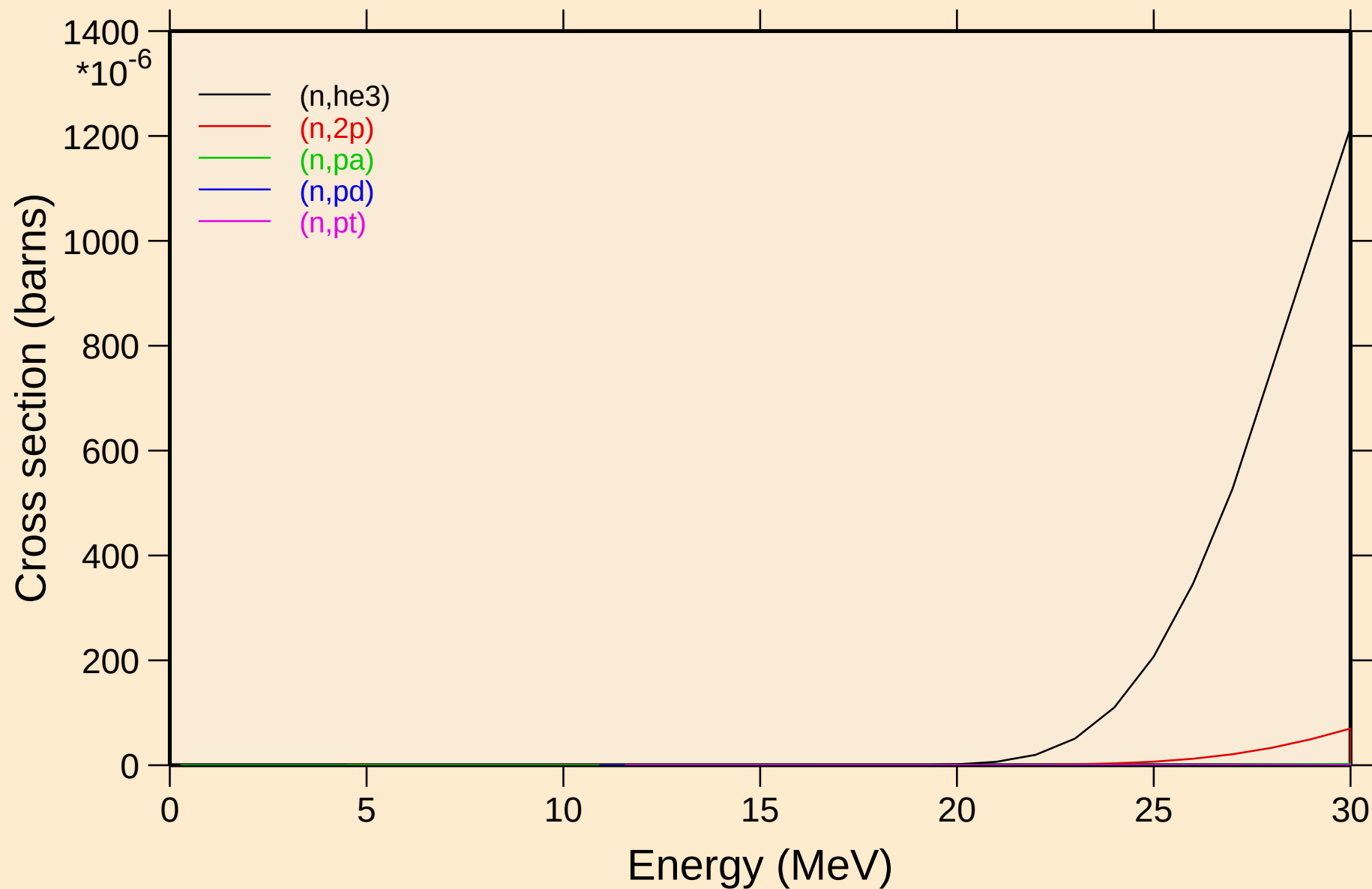
CE139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Threshold reactions



CE139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Threshold reactions

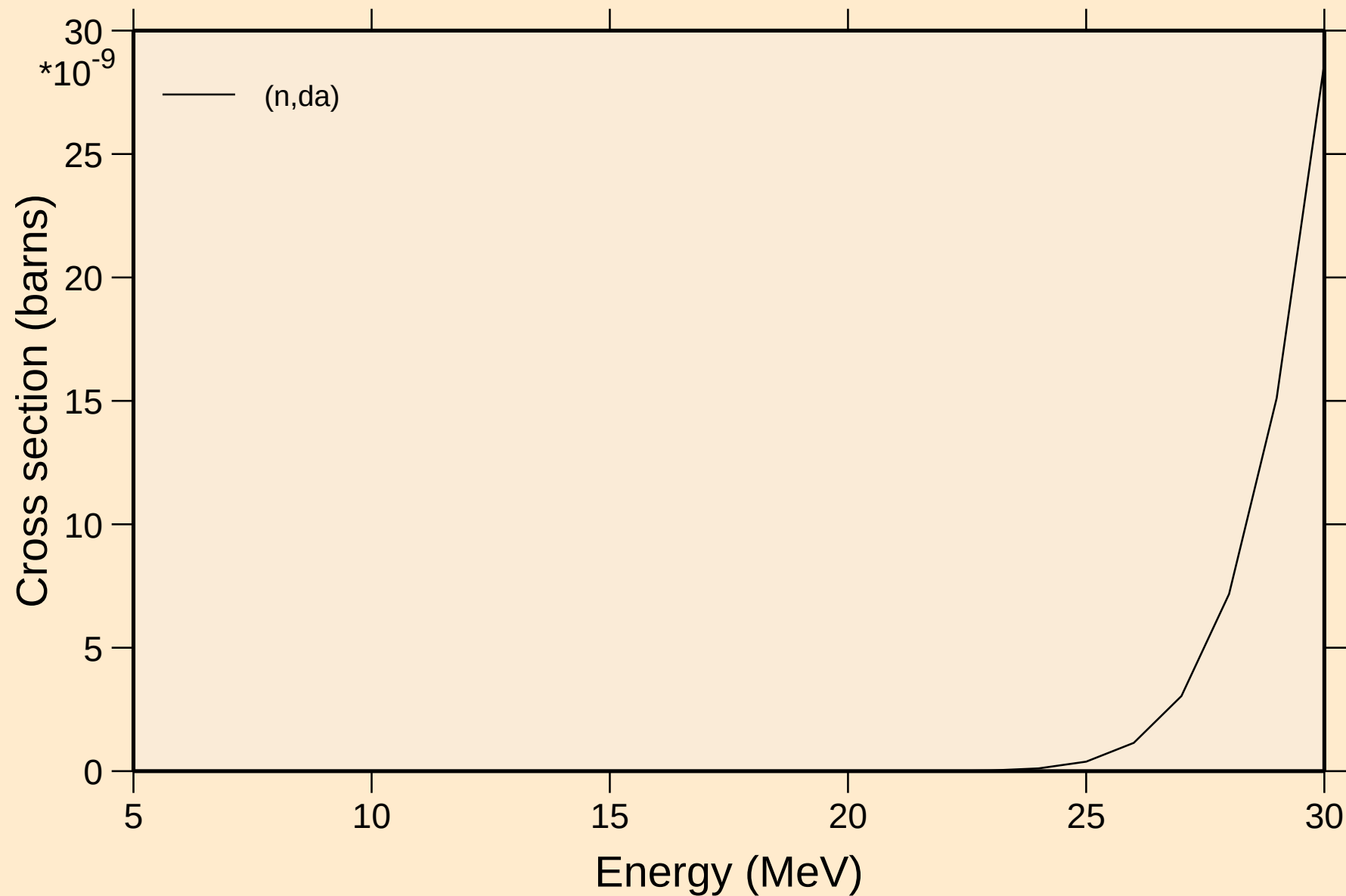


CE139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Threshold reactions

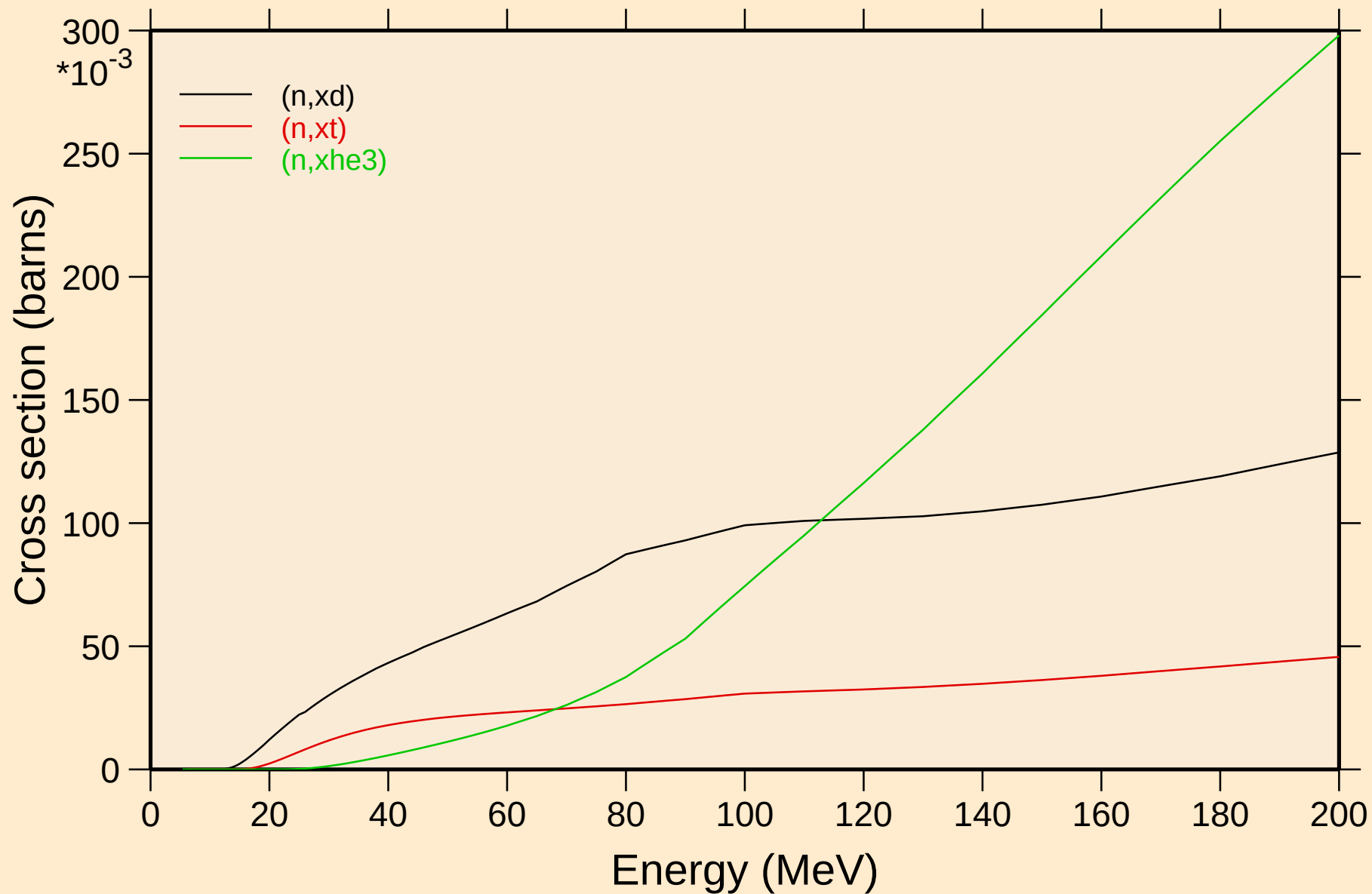


CE139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

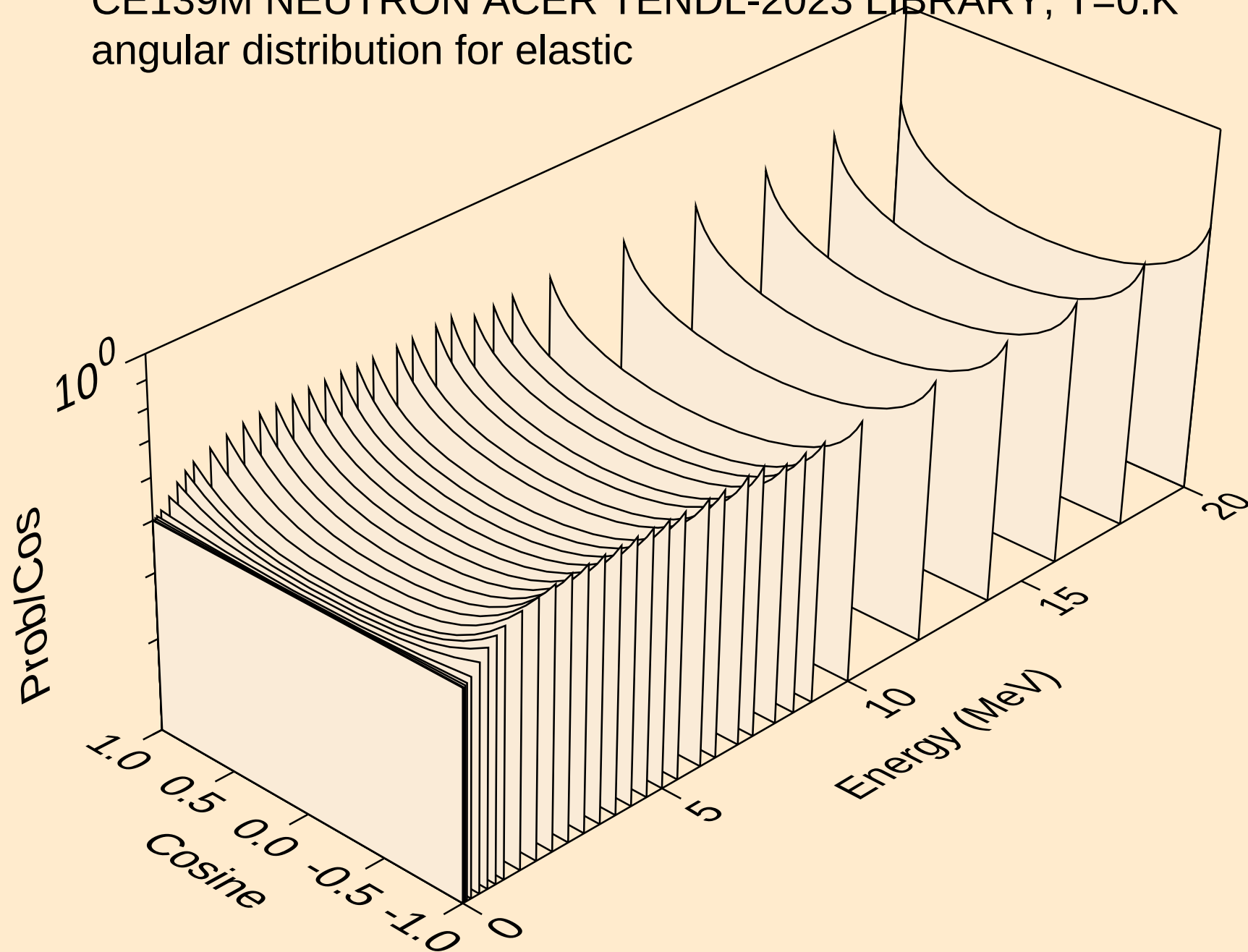
Threshold reactions



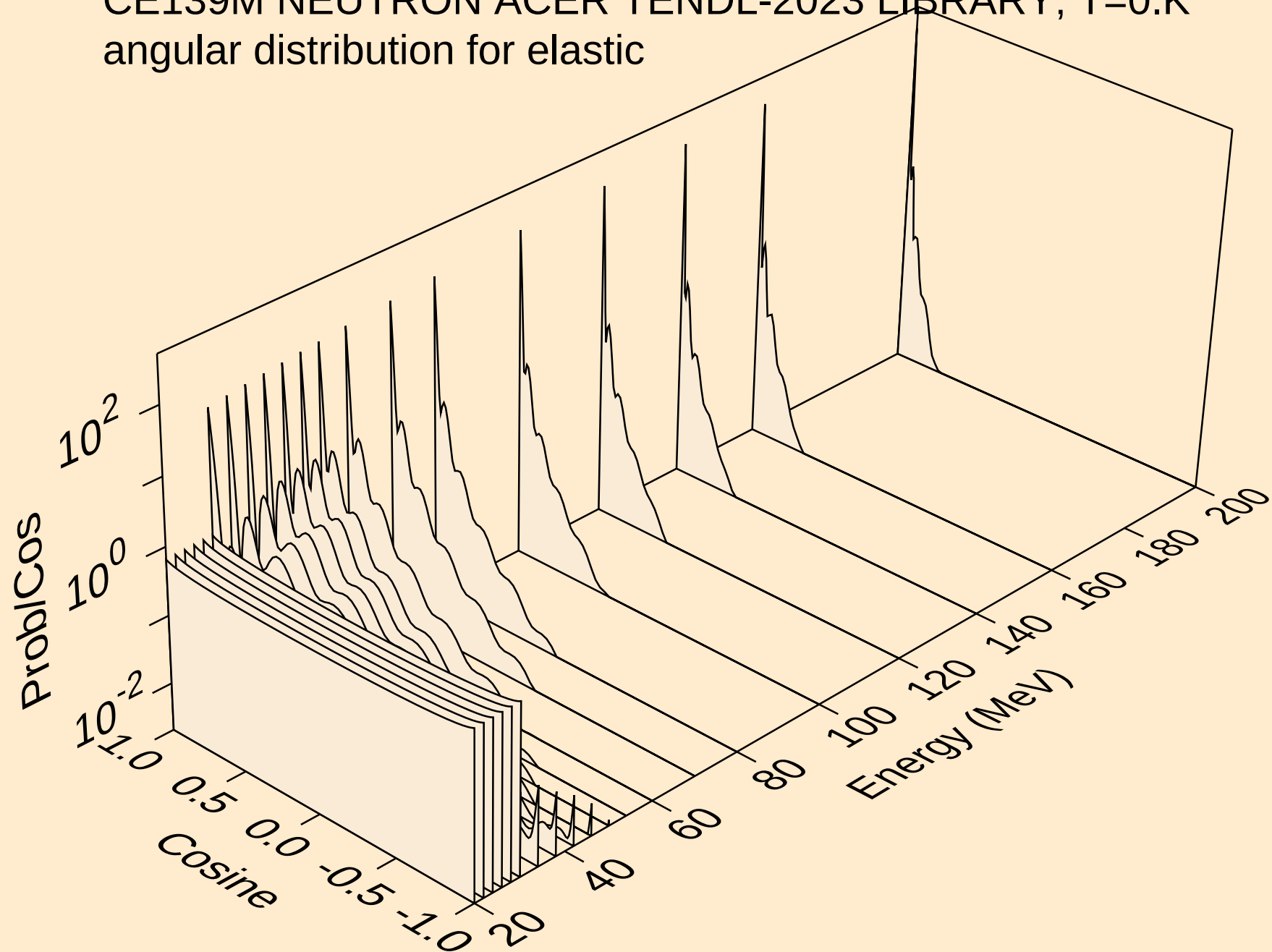
CE139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Threshold reactions



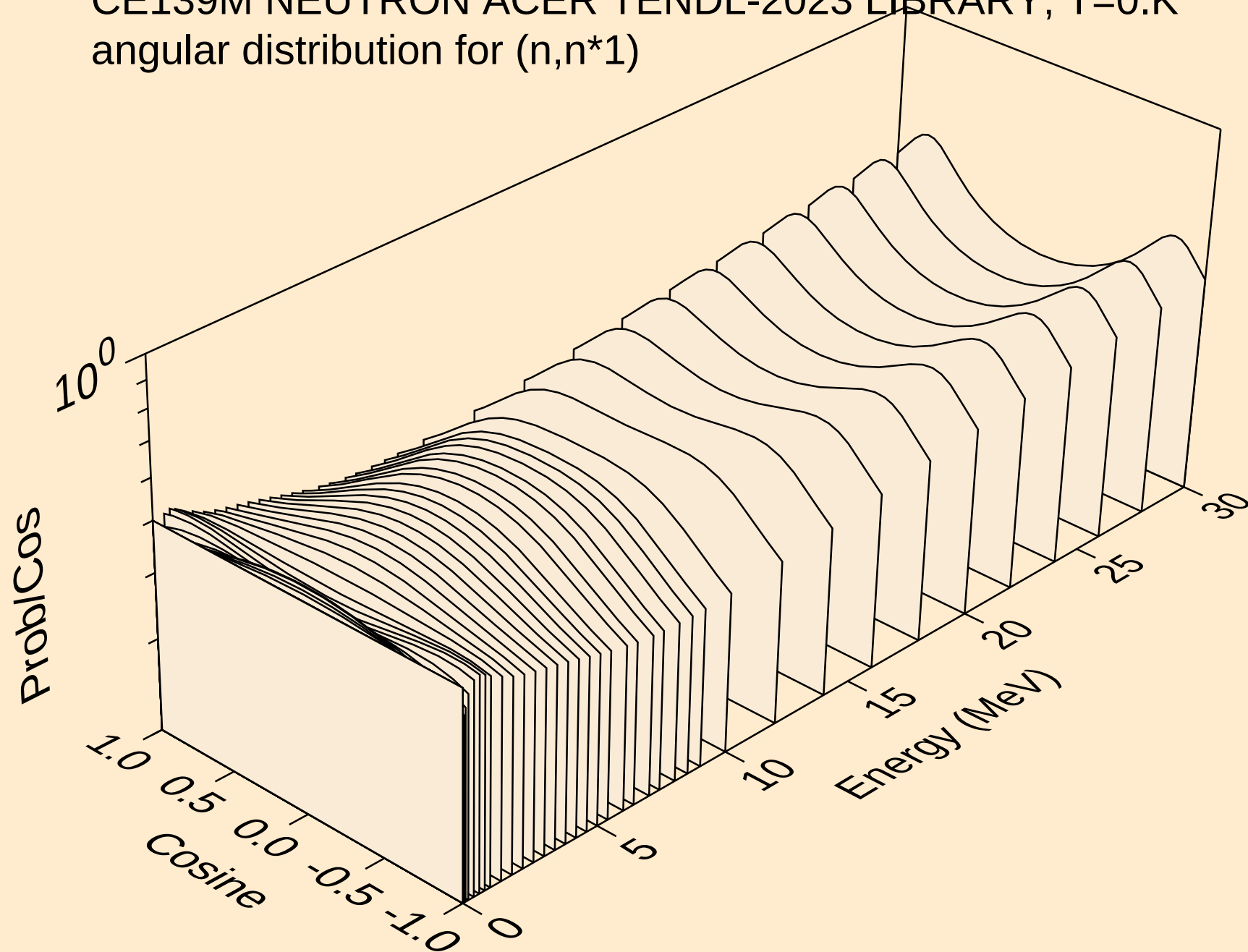
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angular distribution for elastic



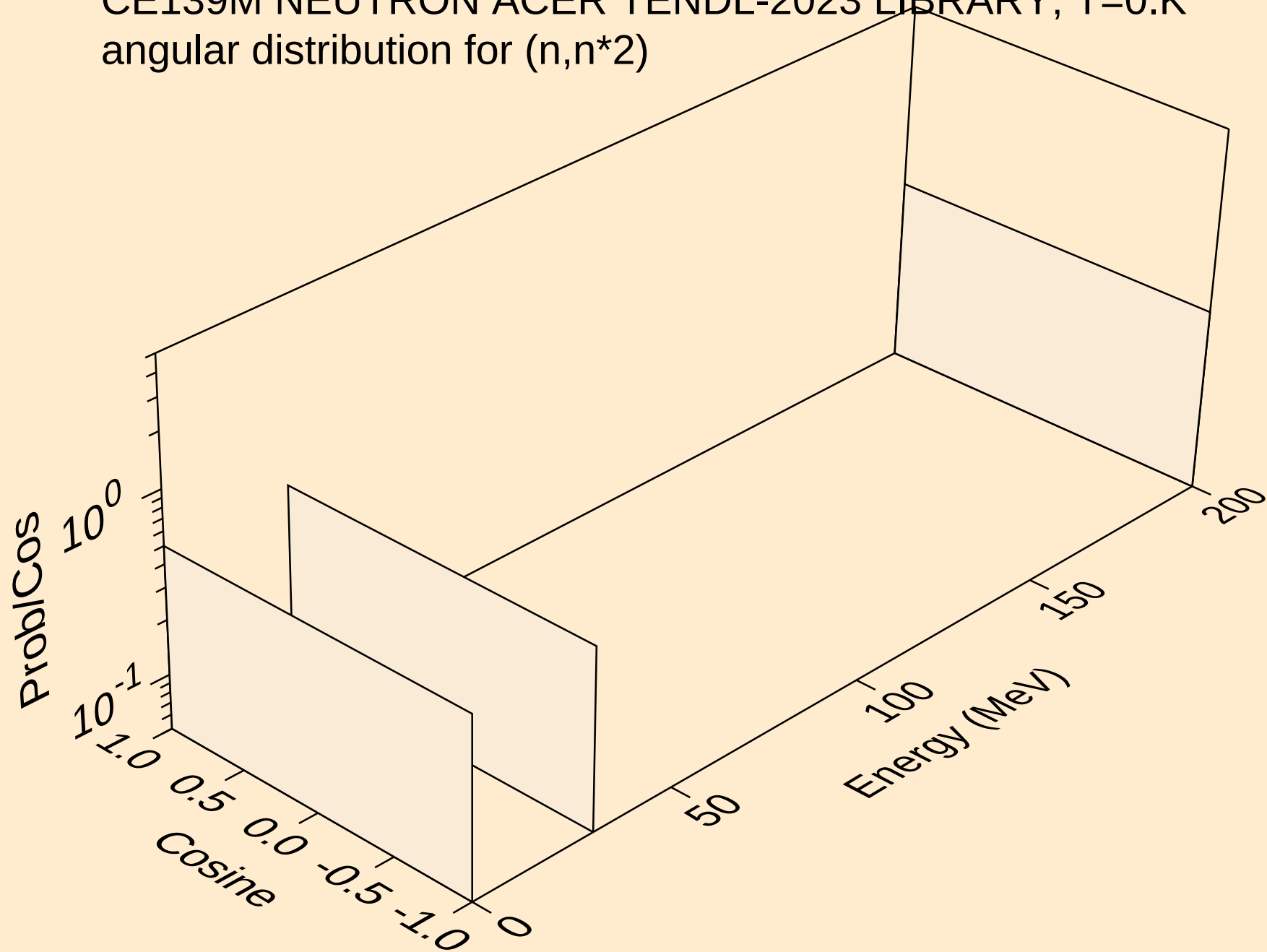
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angular distribution for elastic



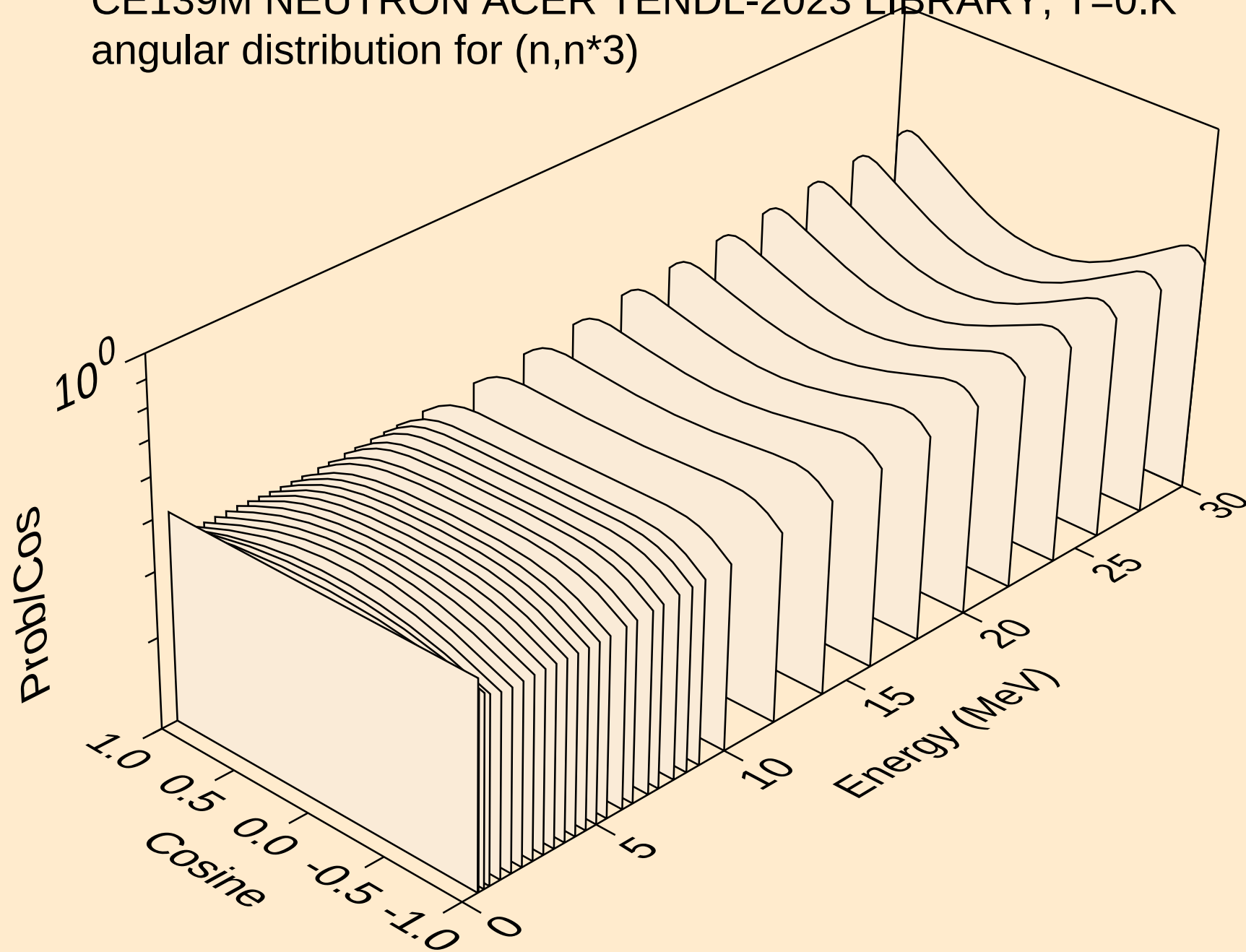
CE139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
angular distribution for (n,n*1)



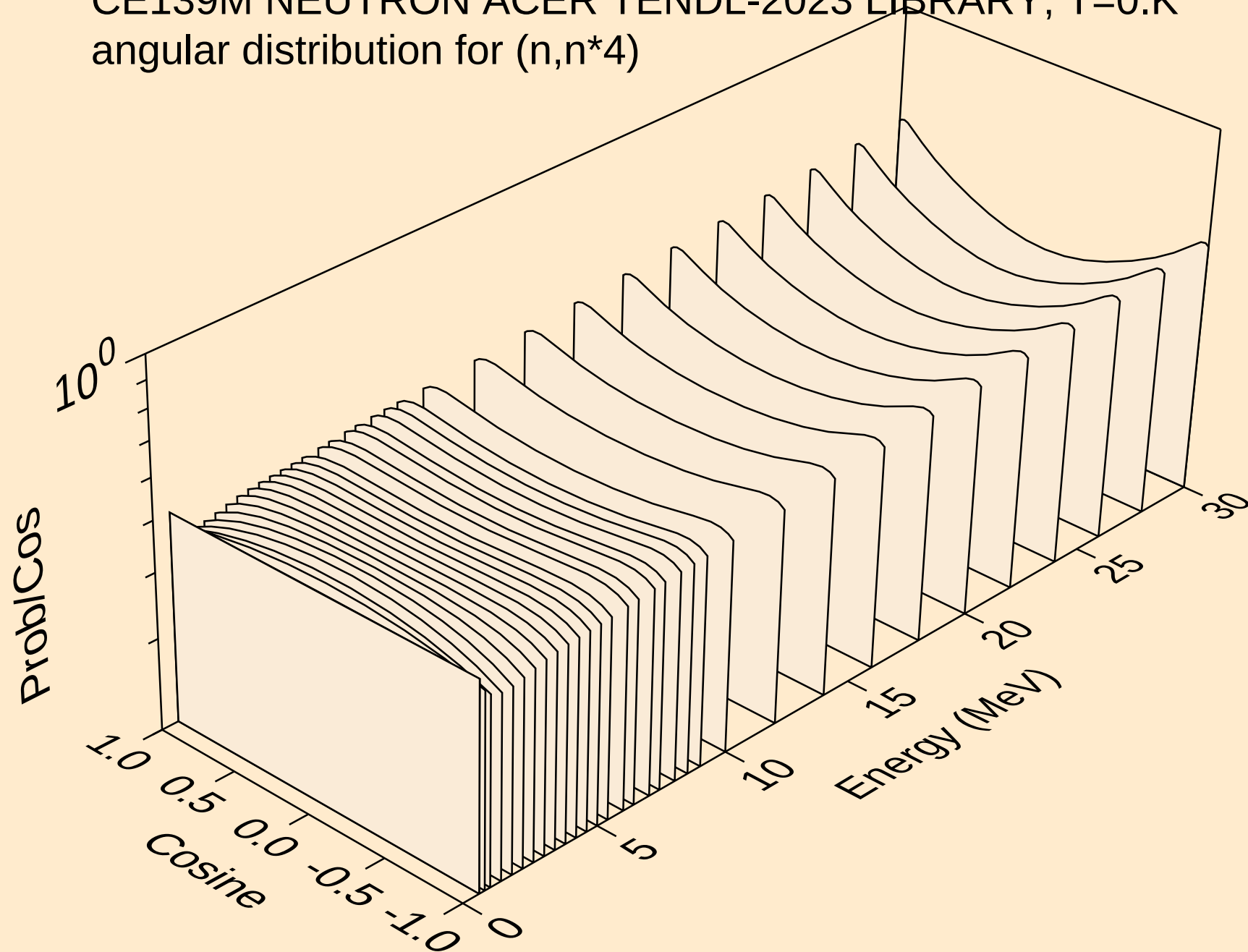
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angular distribution for (n,n*2)



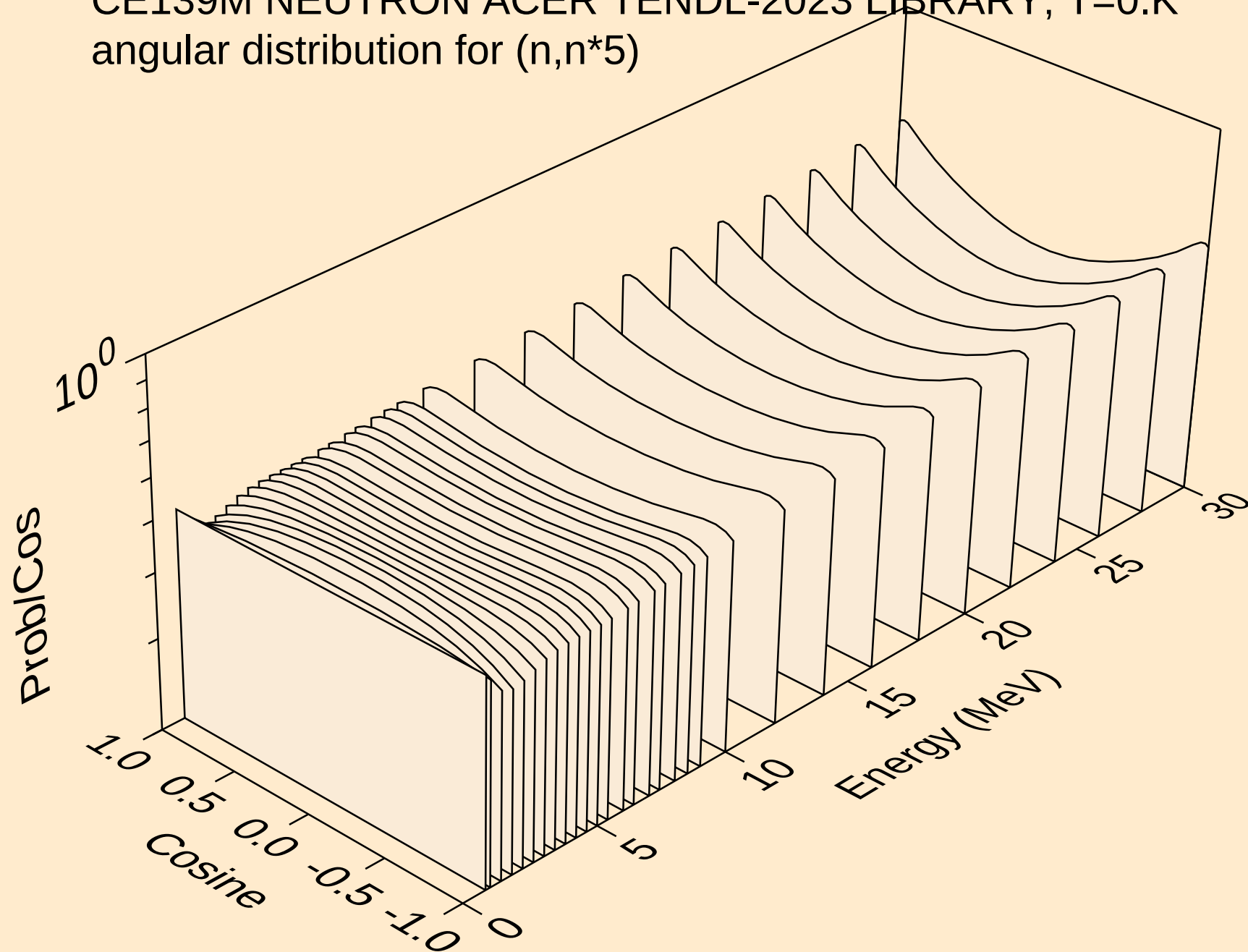
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angular distribution for (n,n*3)



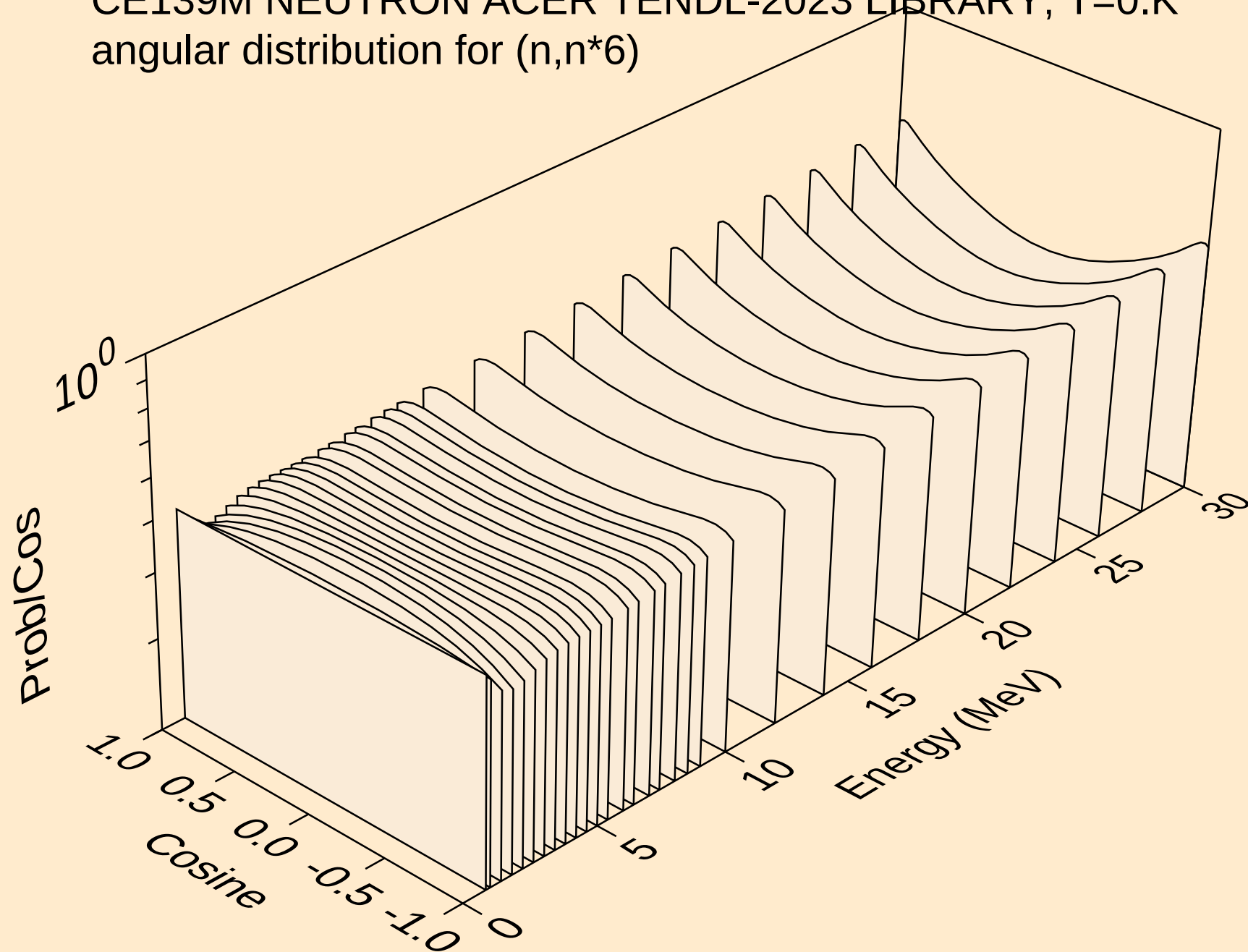
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angular distribution for (n,n*4)



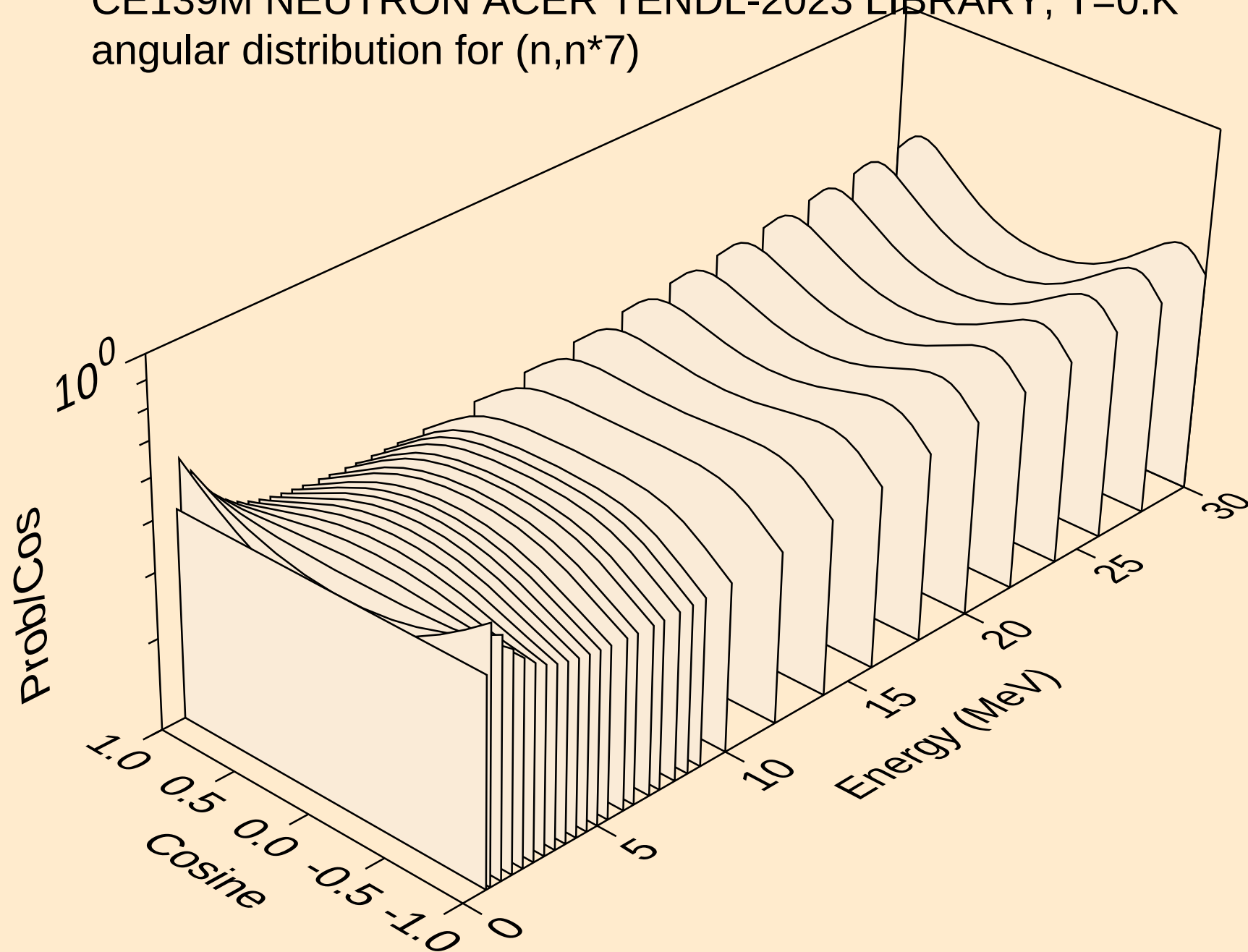
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angular distribution for (n,n*5)



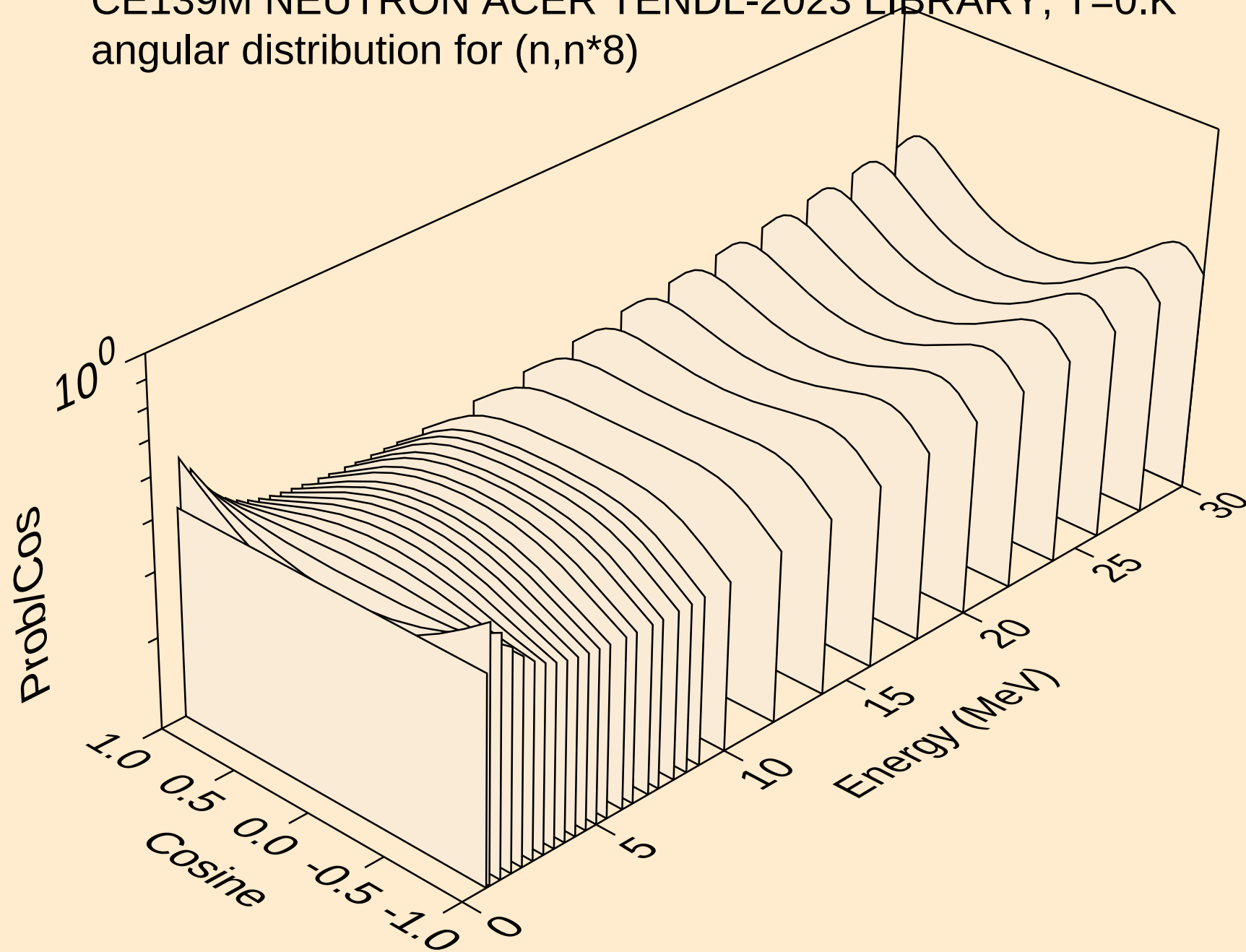
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angular distribution for (n,n*6)



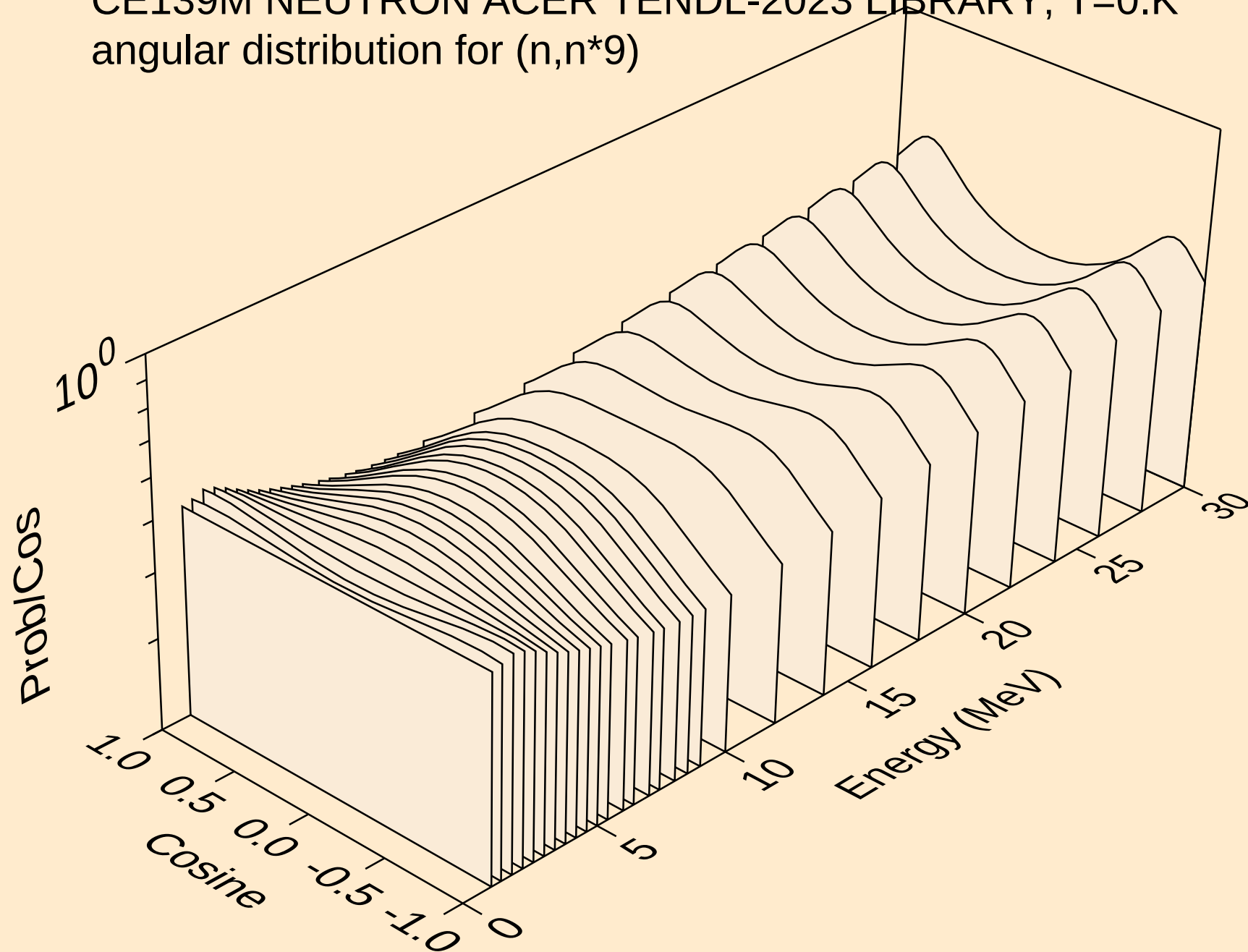
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angular distribution for (n,n*7)



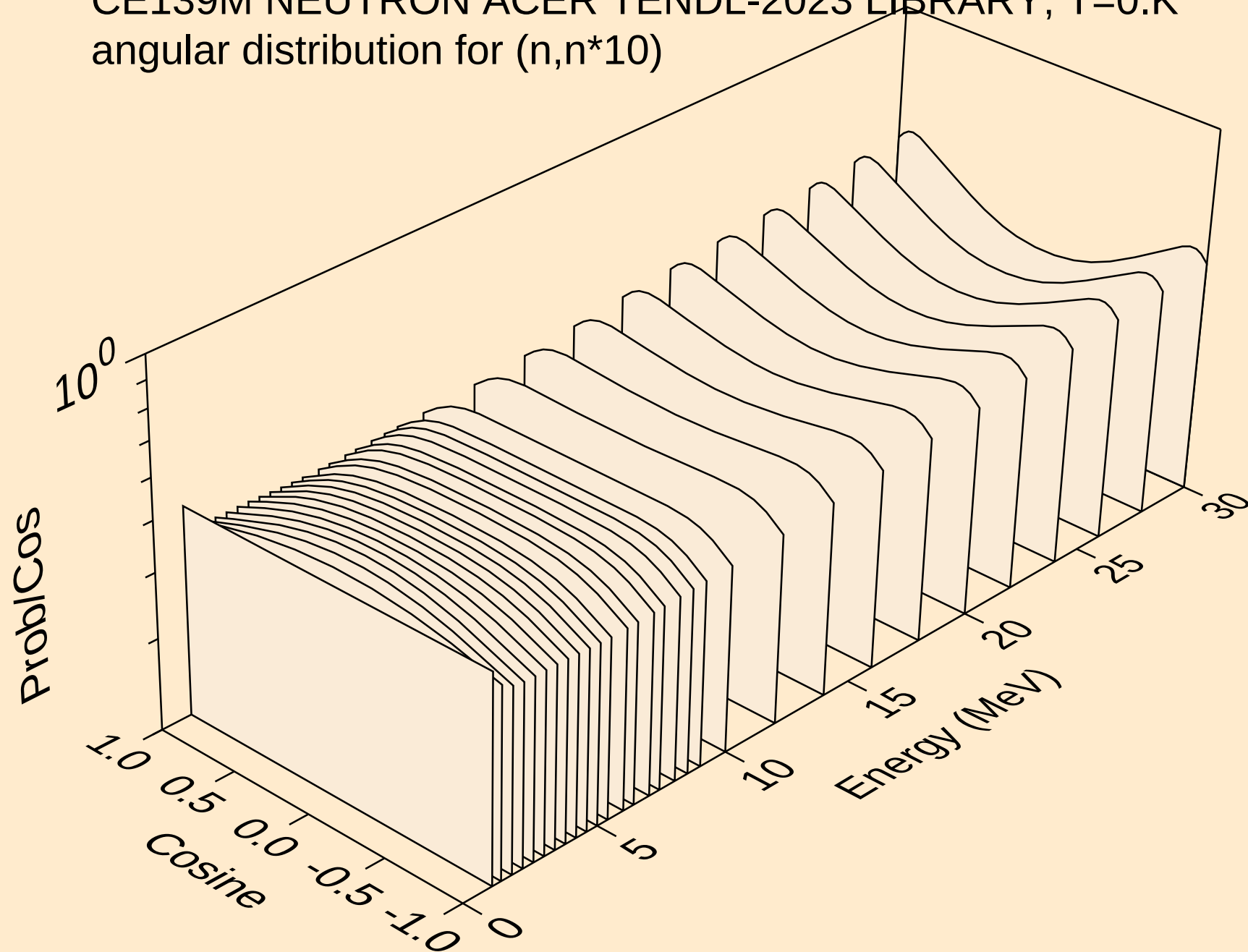
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angular distribution for (n,n*8)



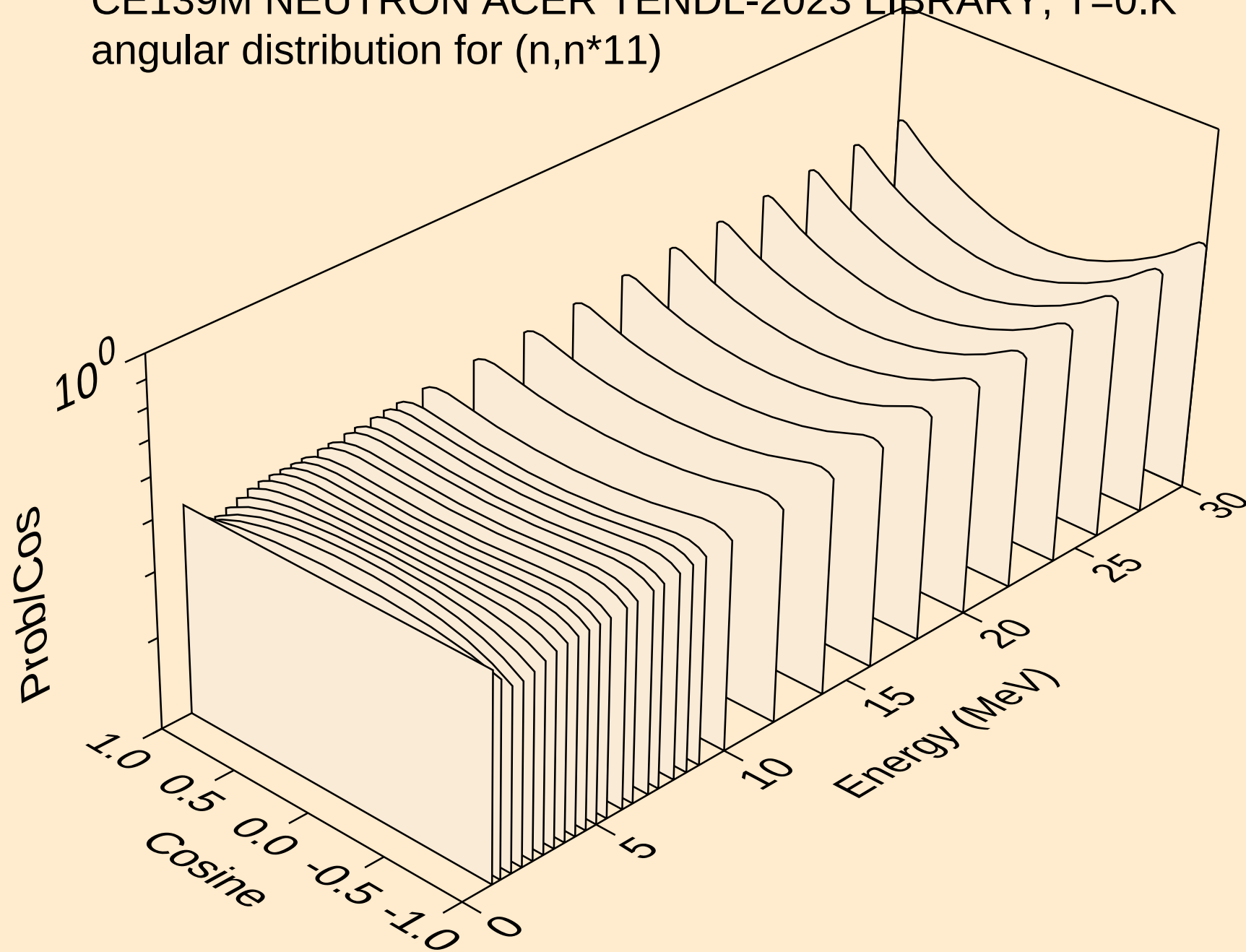
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angular distribution for (n,n*9)



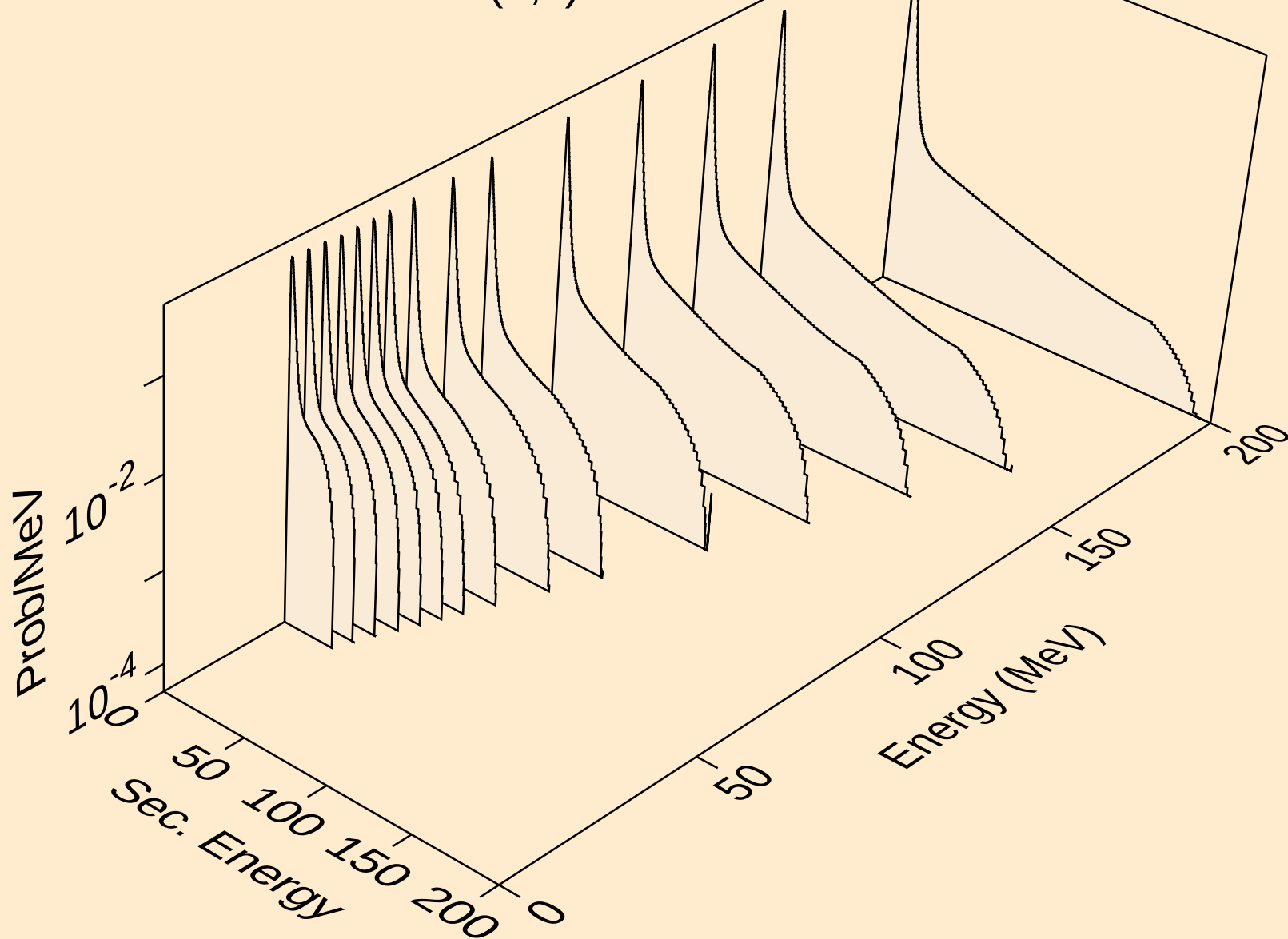
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angular distribution for (n,n*10)



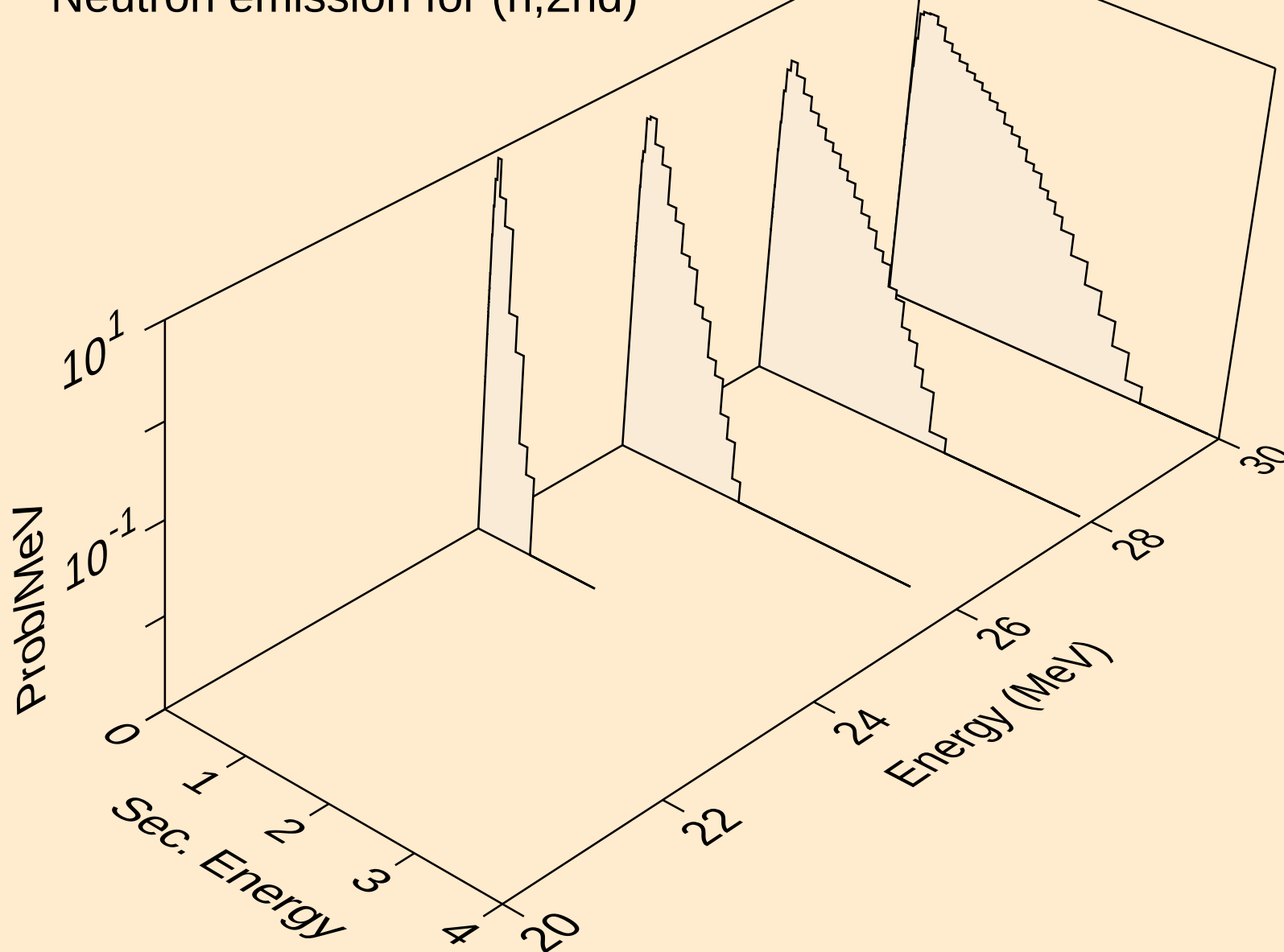
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angular distribution for (n,n*11)



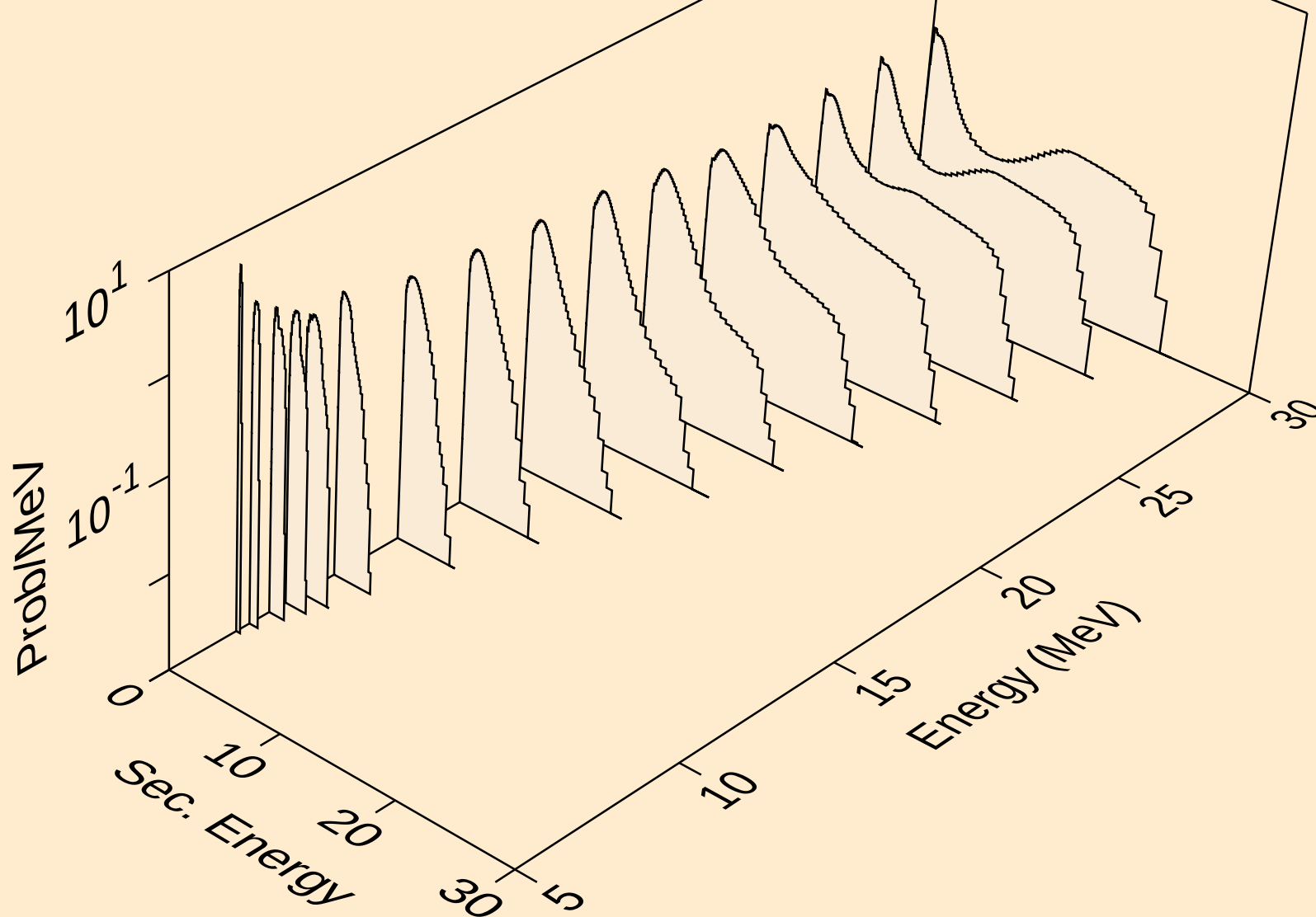
CE139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Neutron emission for (n,x)



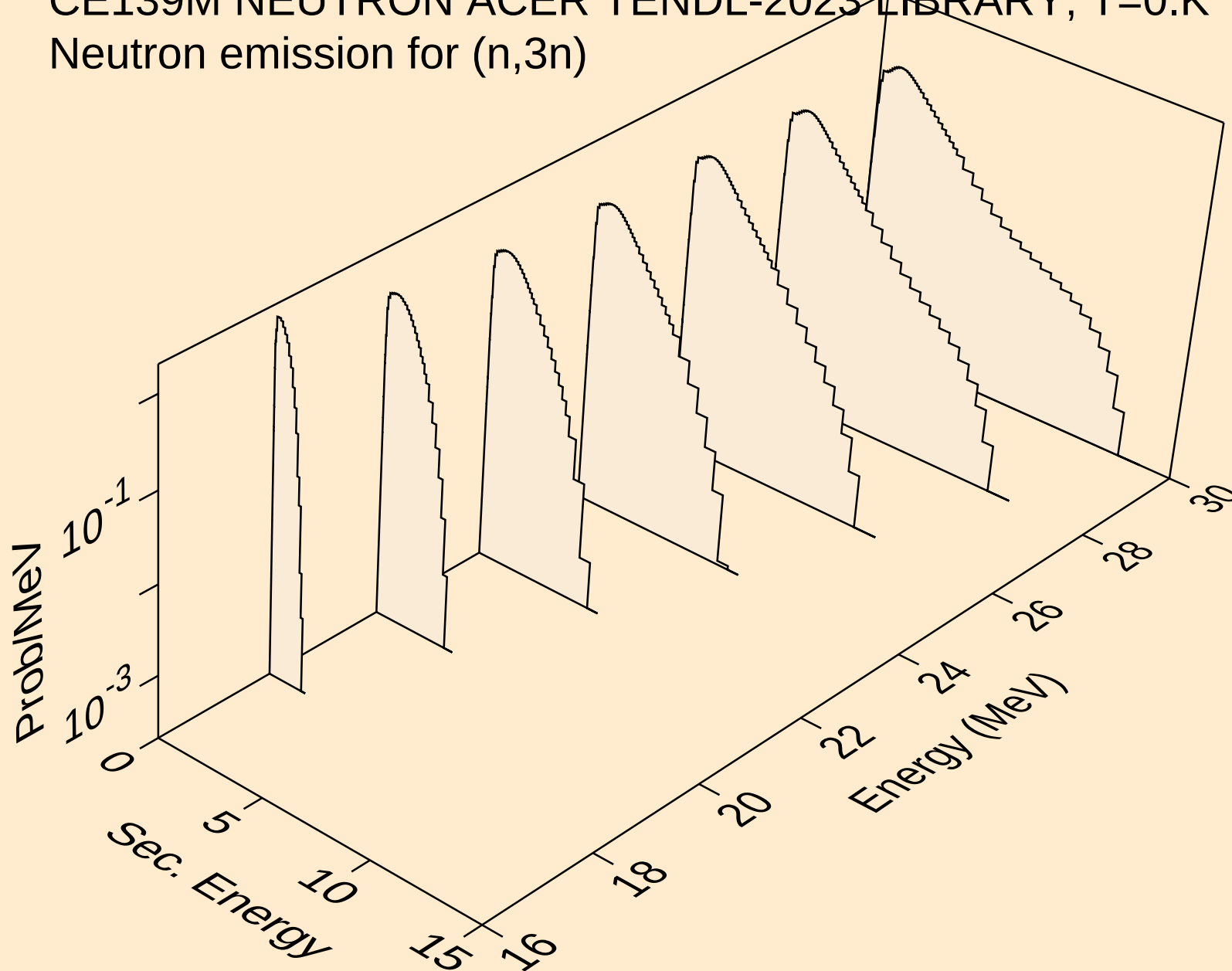
CE139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Neutron emission for (n,2nd)



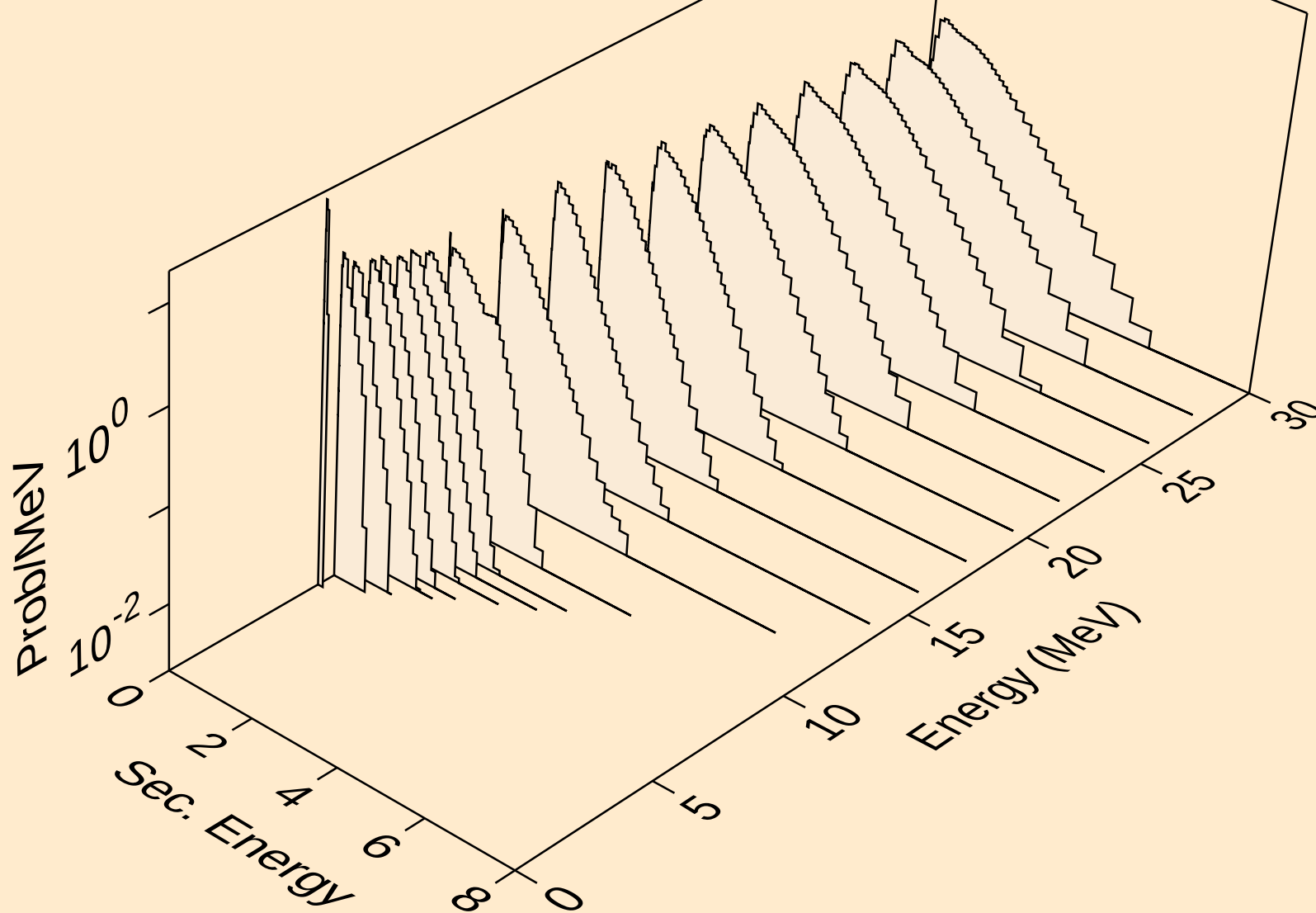
CE139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Neutron emission for (n,2n)



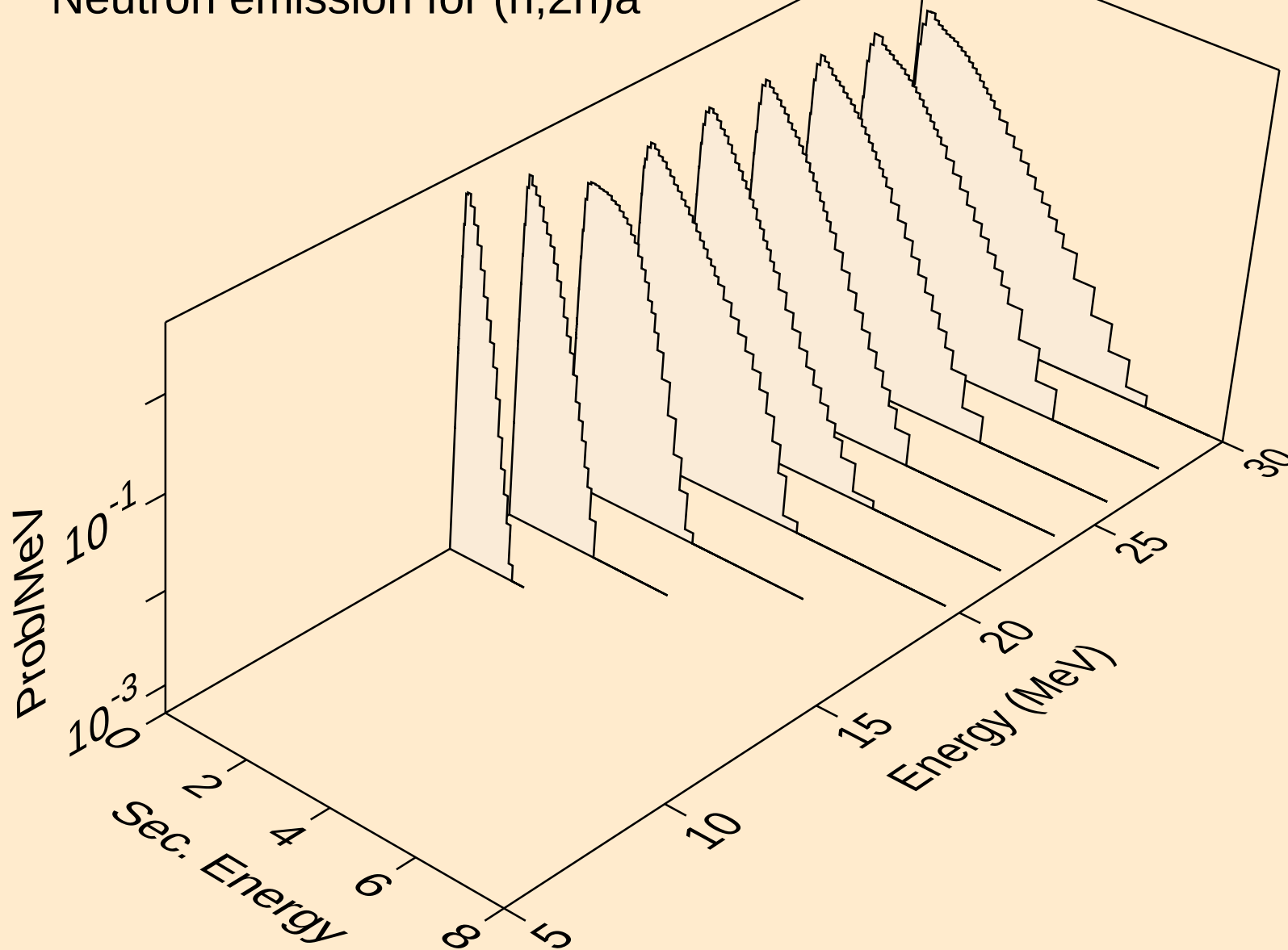
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Neutron emission for (n,3n)



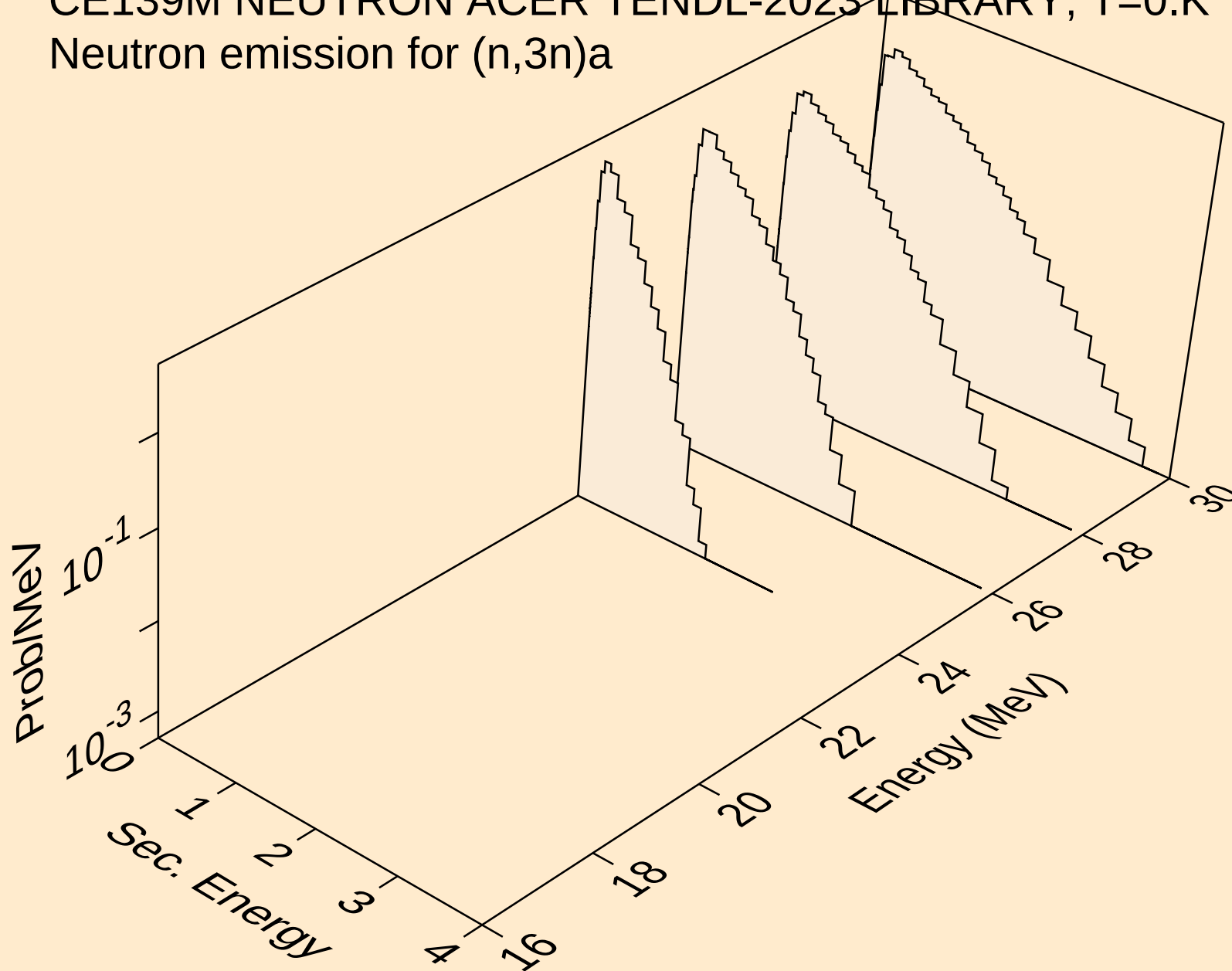
CE139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Neutron emission for (n,n*)a



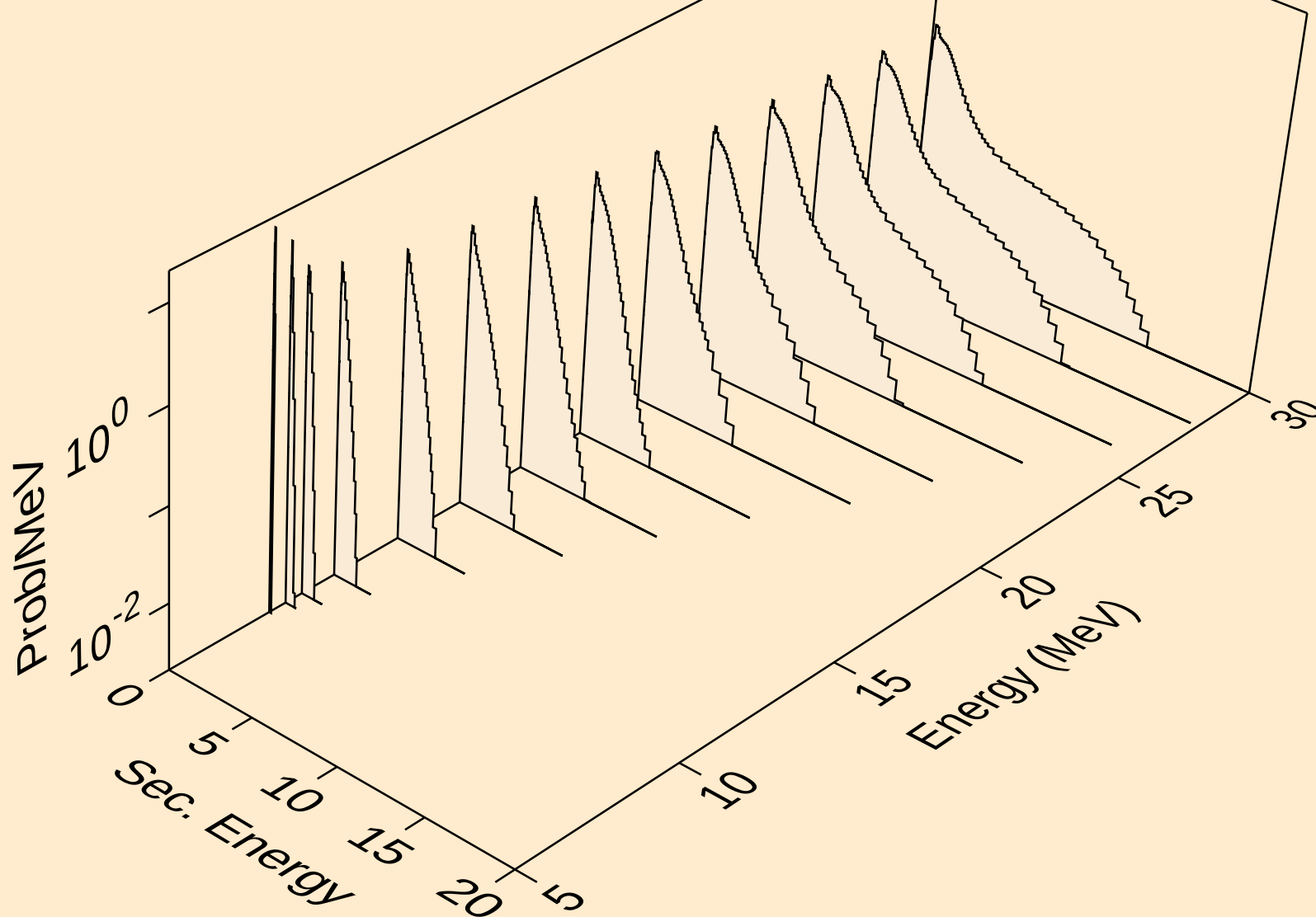
CE139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Neutron emission for (n,2n)_a



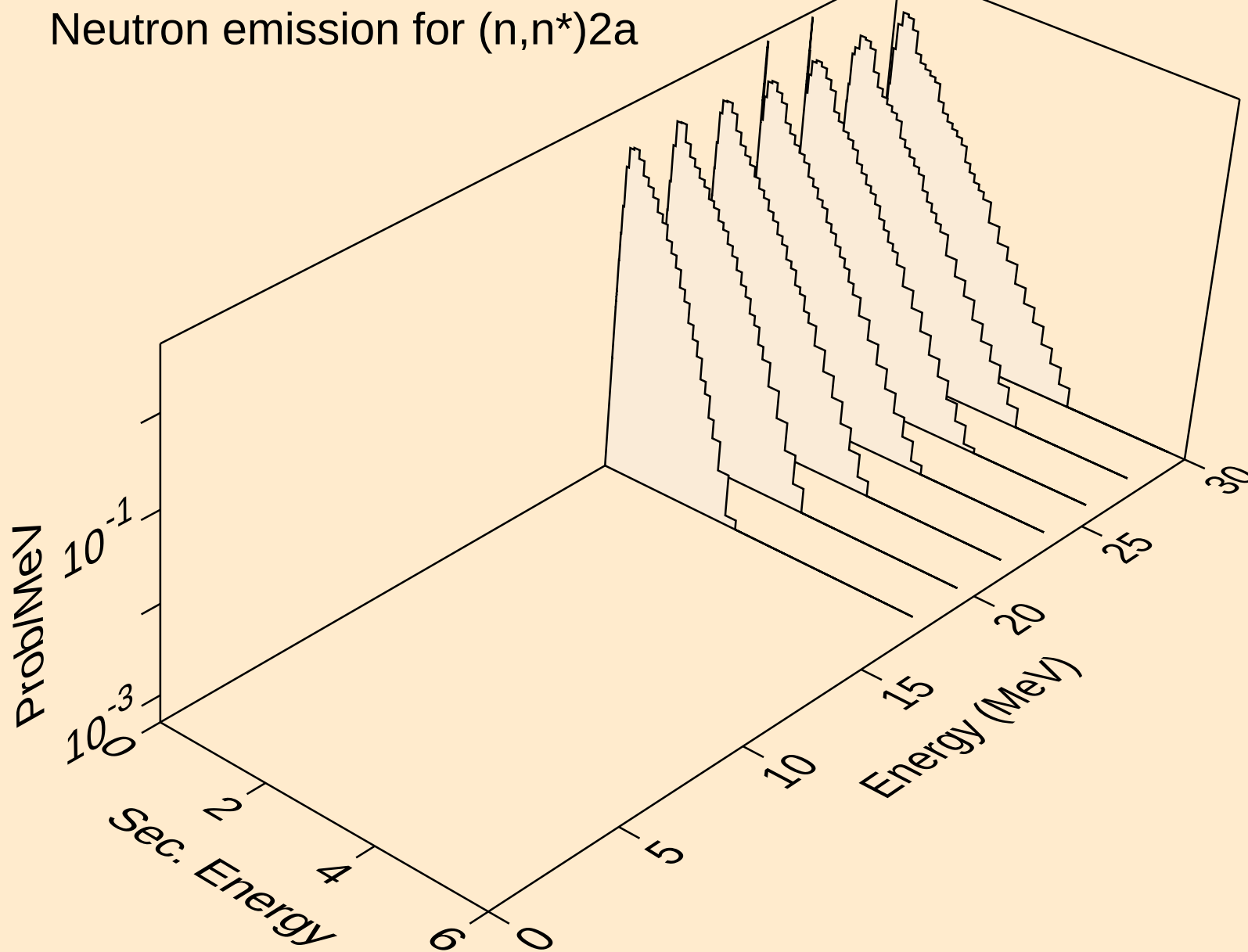
CE139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Neutron emission for (n,3n)a



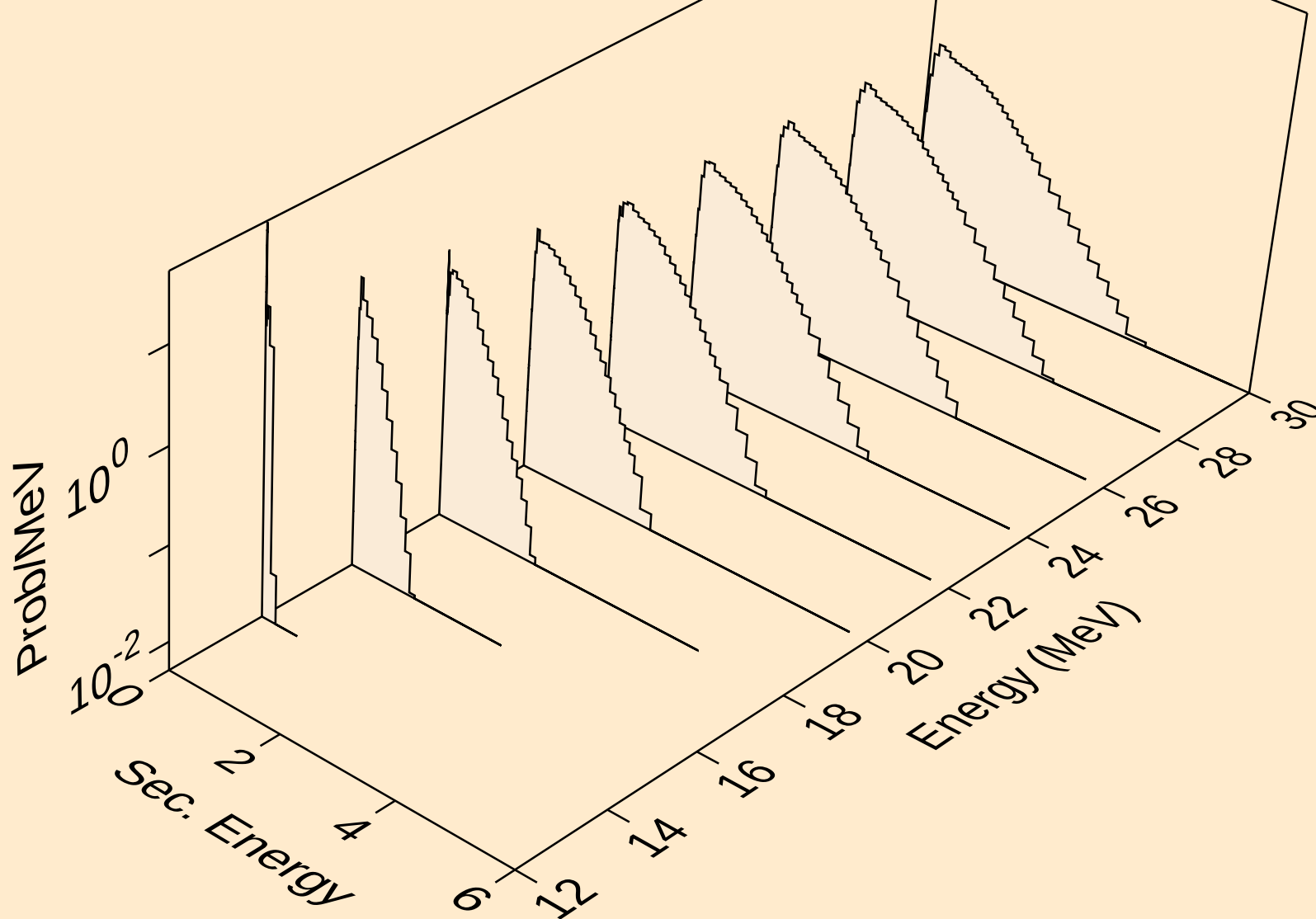
CE139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Neutron emission for (n,n*)p



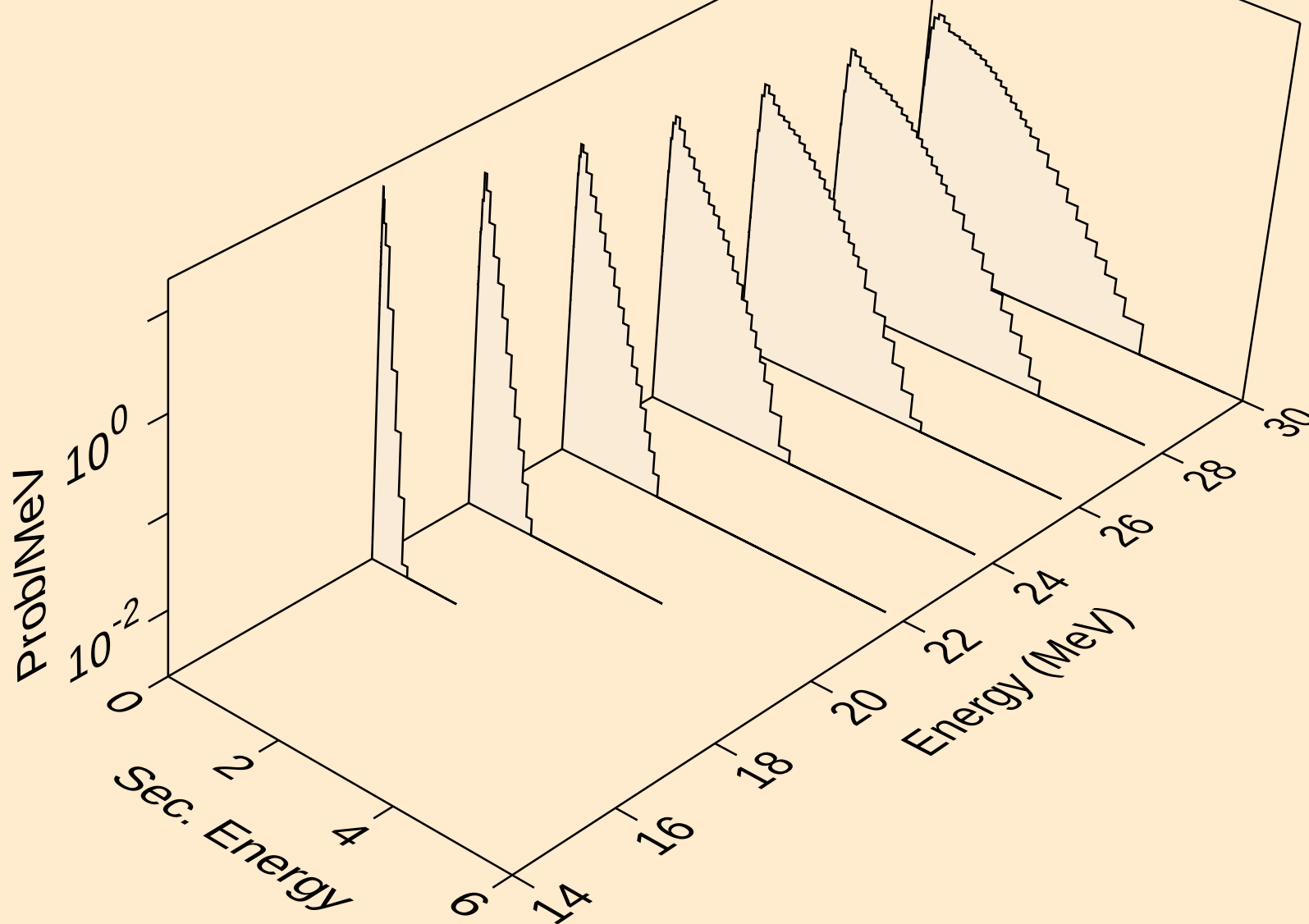
CE139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Neutron emission for (n,n*)2a



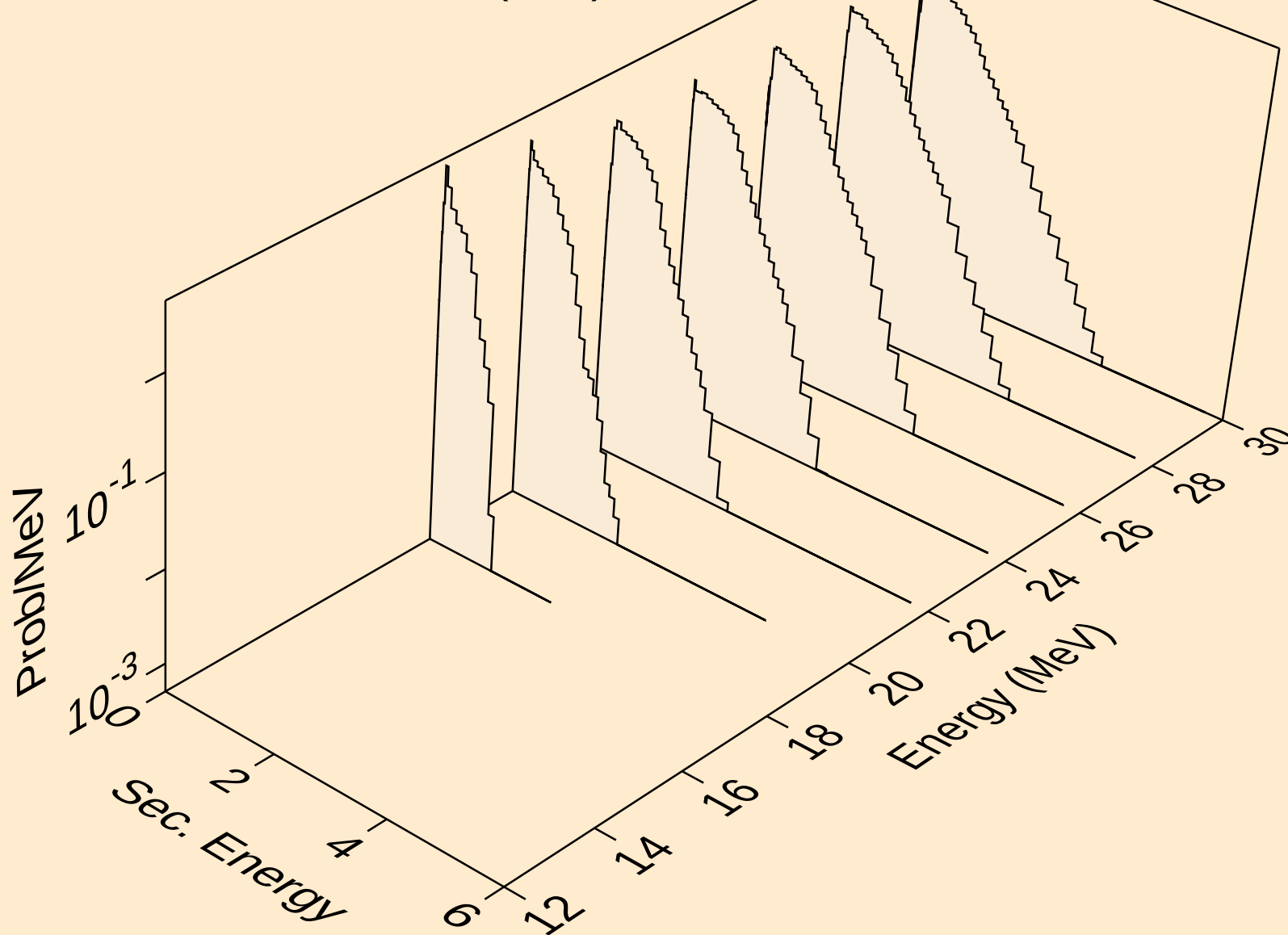
CE139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Neutron emission for (n,n*)d



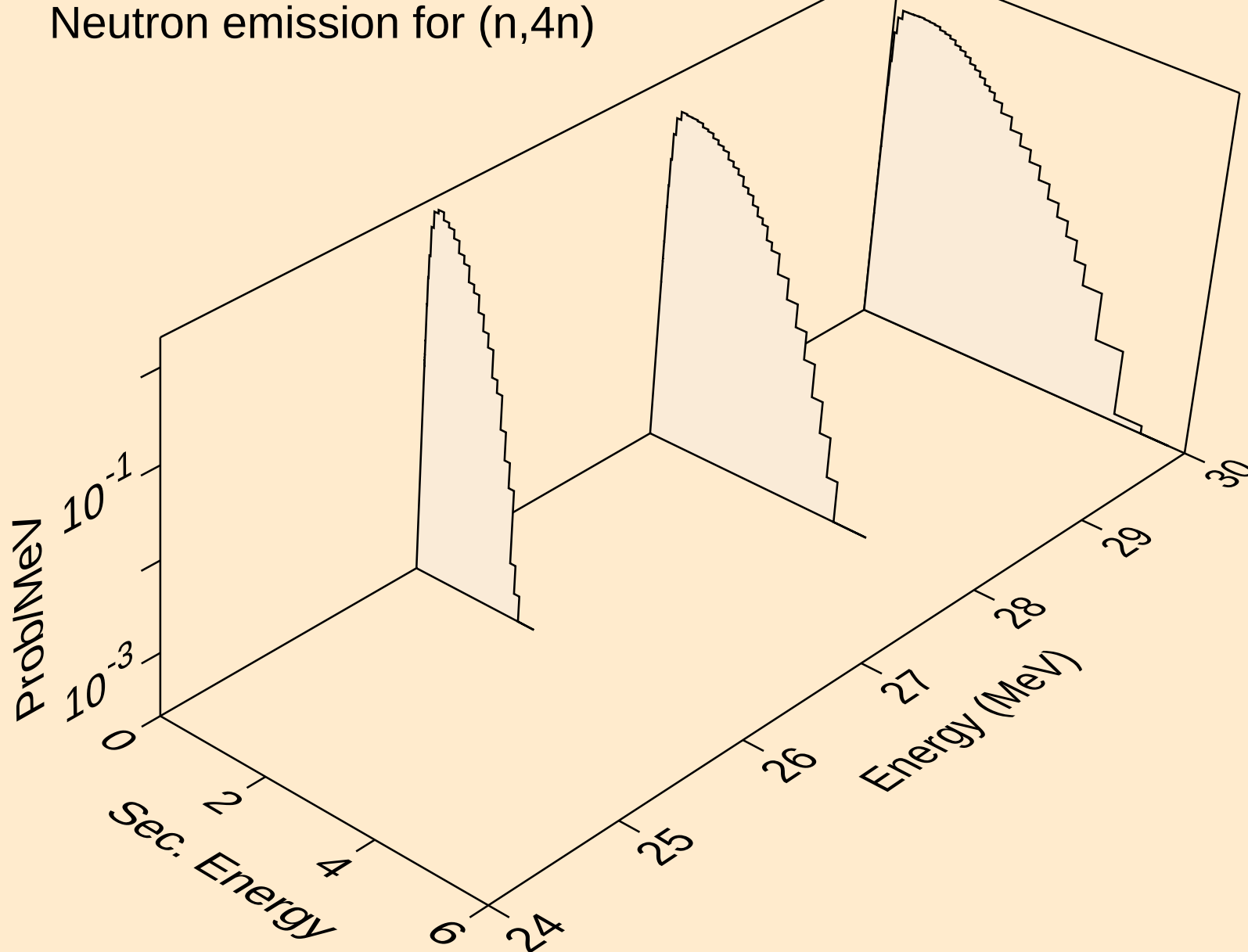
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Neutron emission for (n,n*)t



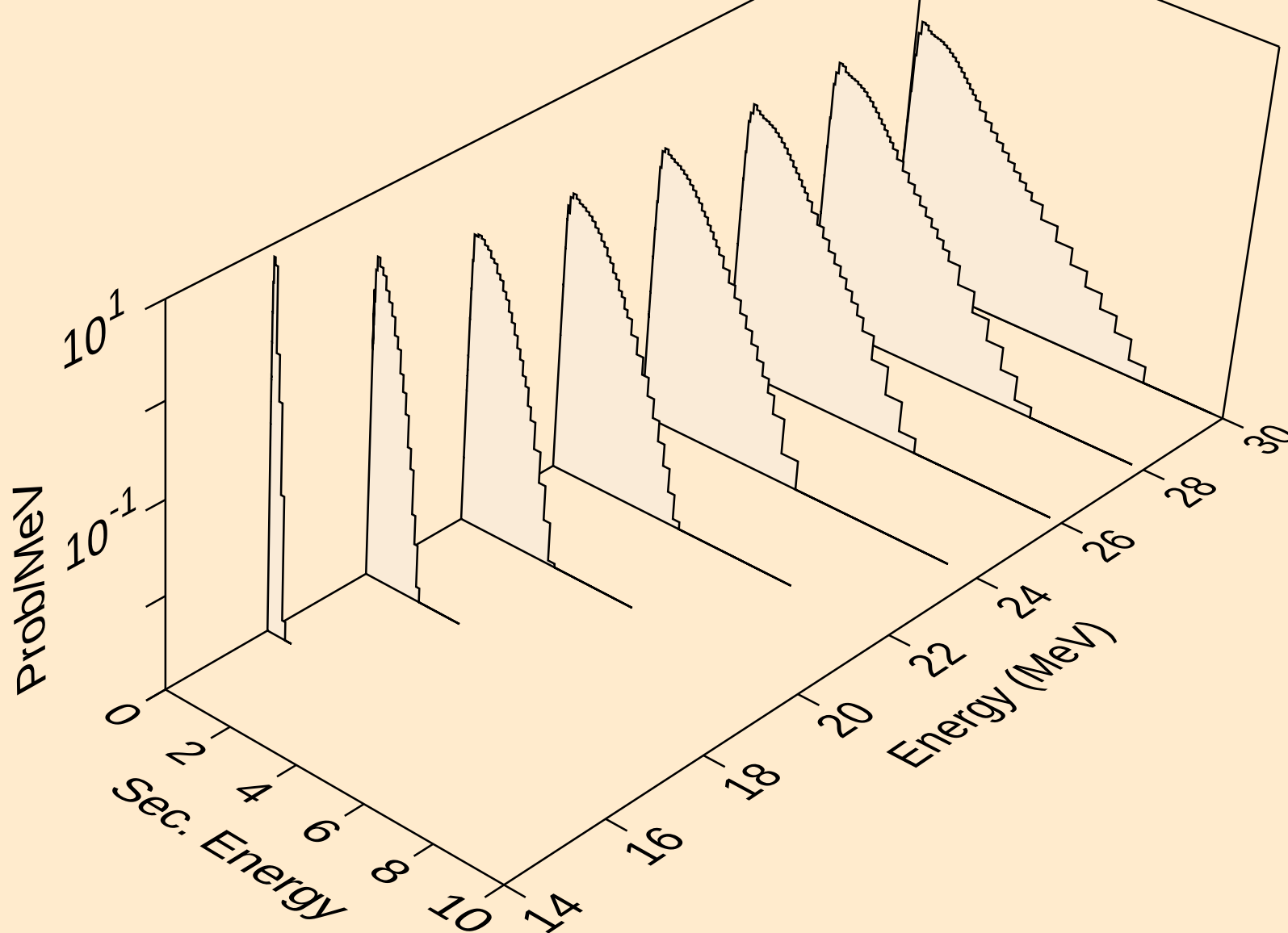
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Neutron emission for (n,n*)he3



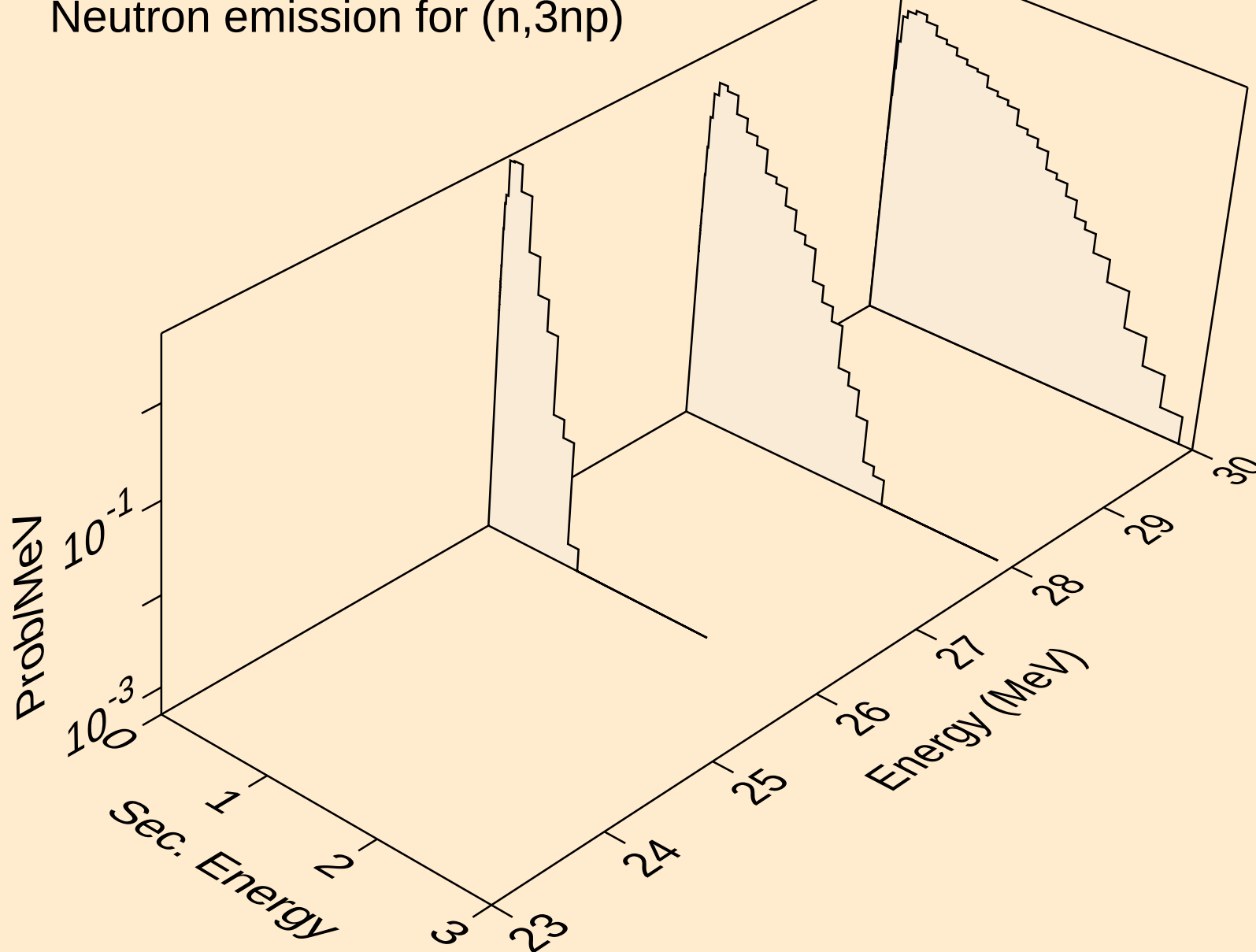
CE139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Neutron emission for (n,4n)



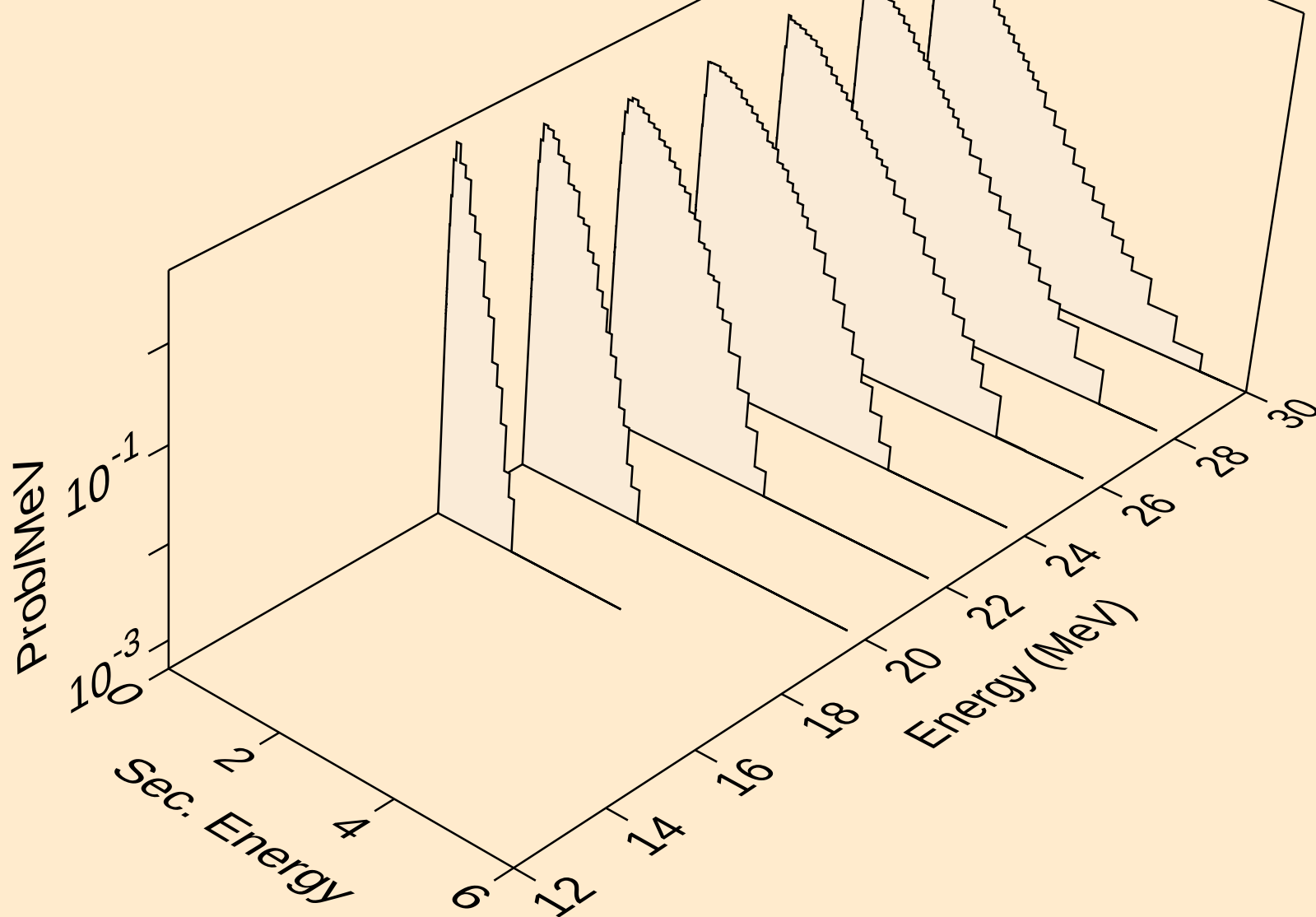
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Neutron emission for (n,2np)



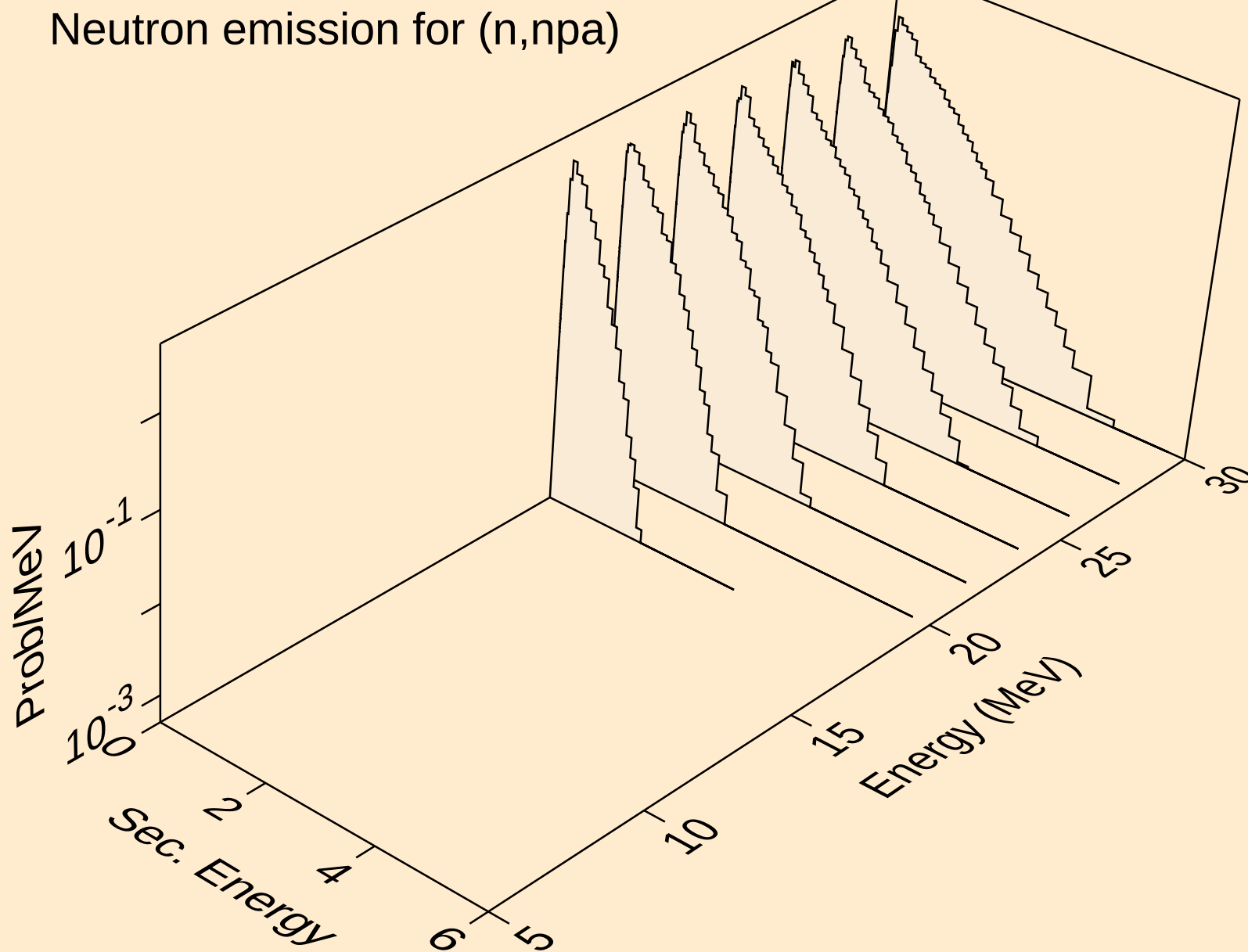
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Neutron emission for (n,3np)



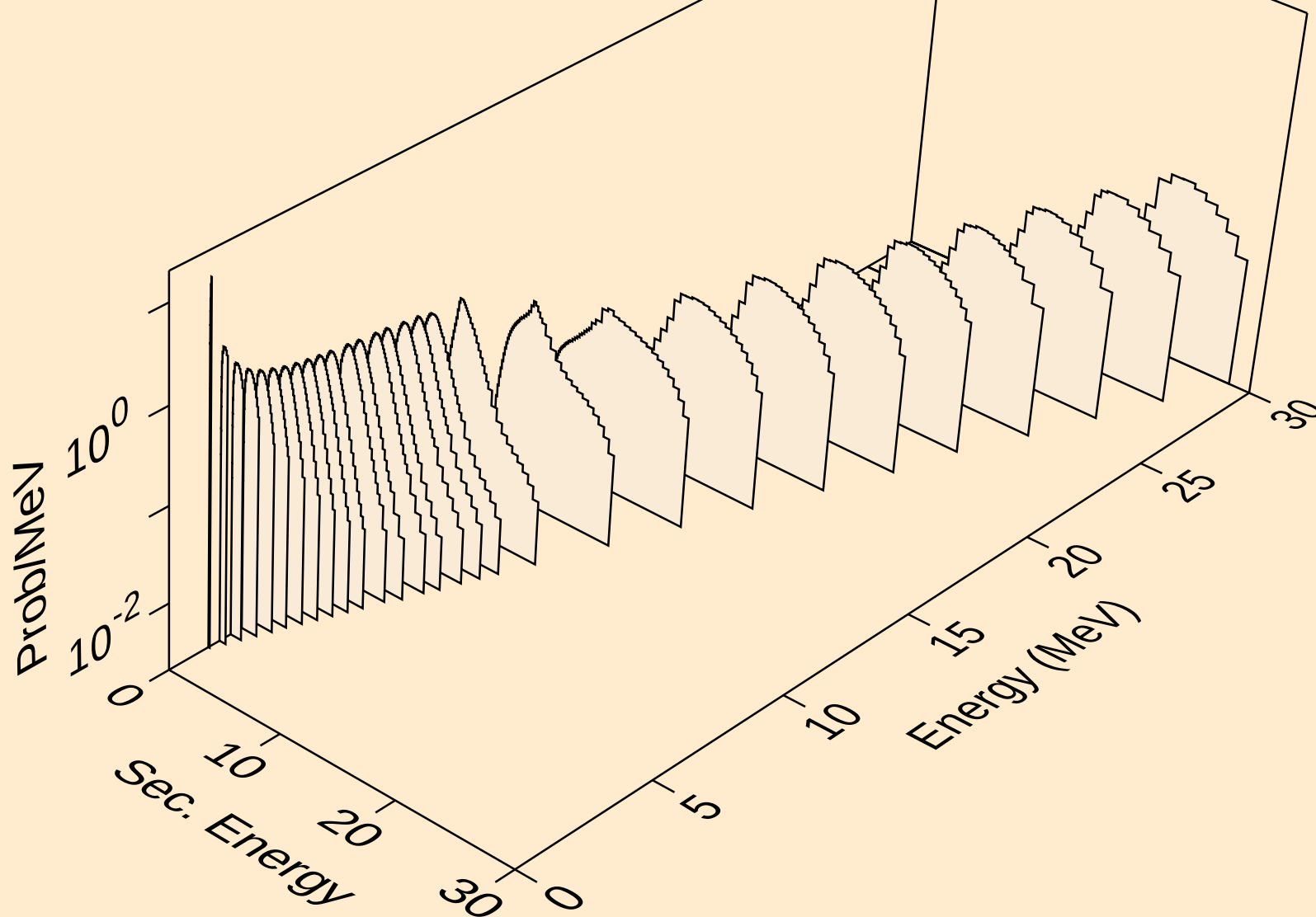
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Neutron emission for (n,n2p)



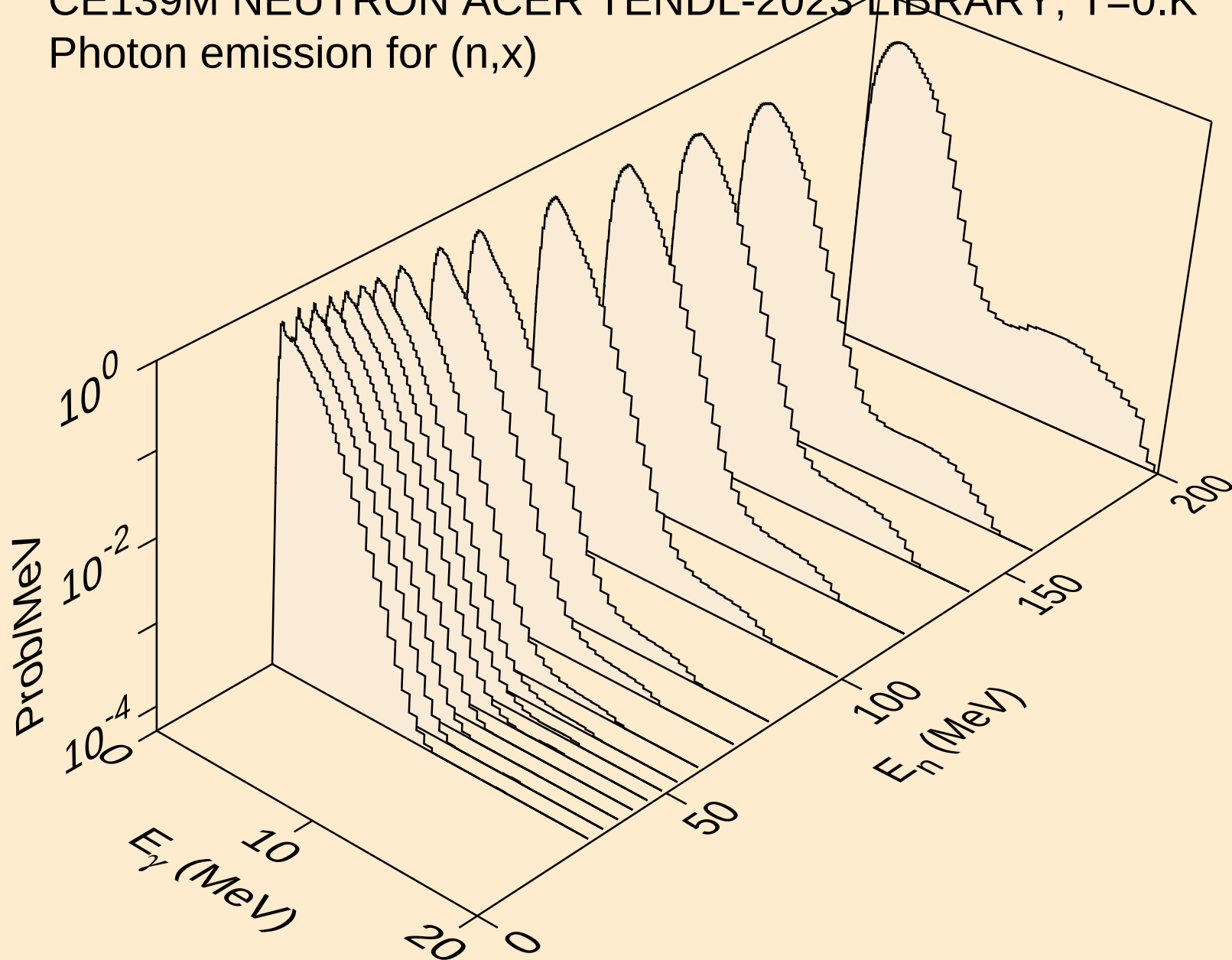
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Neutron emission for (n,npa)



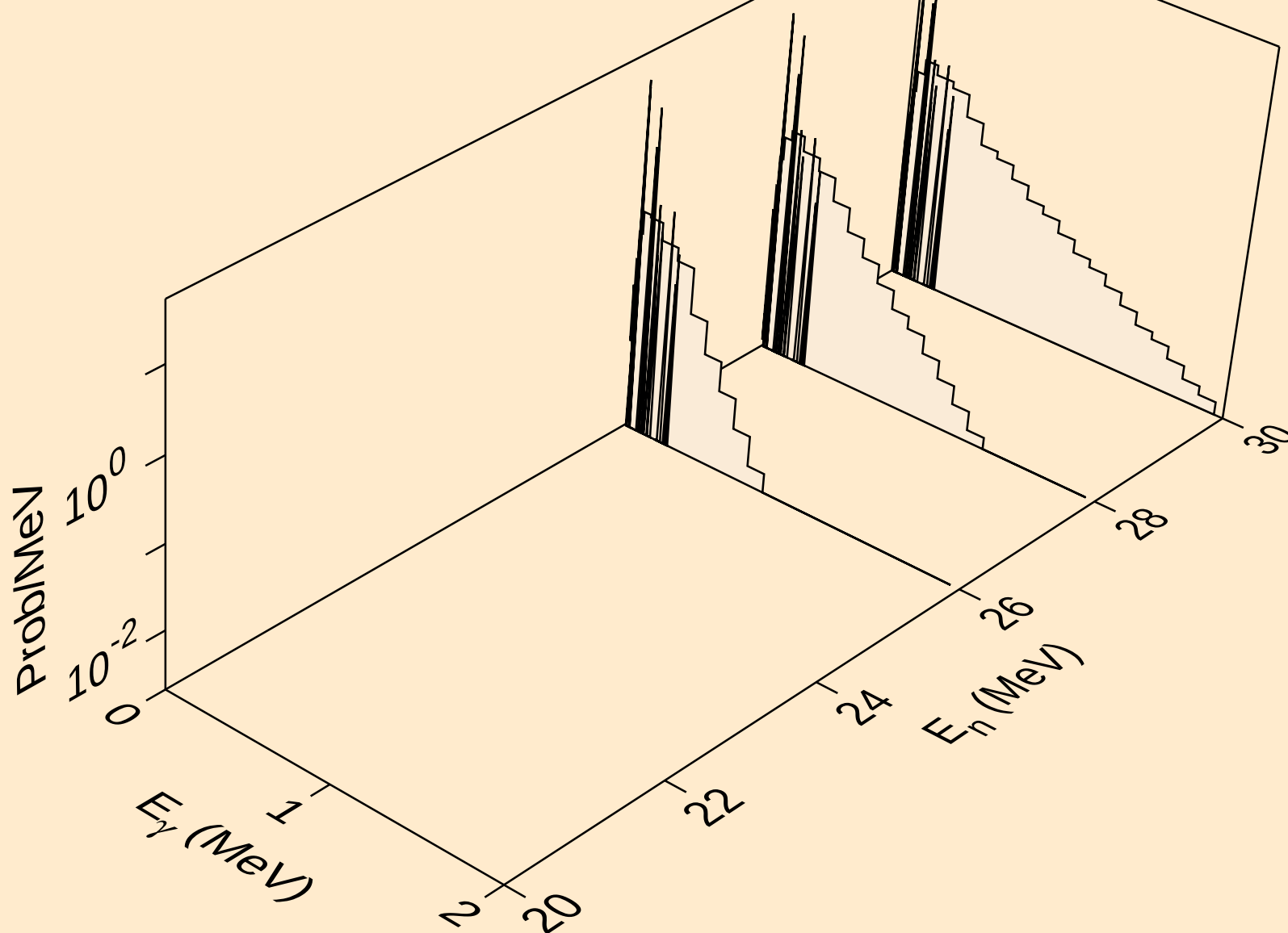
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Neutron emission for (n,n*c)



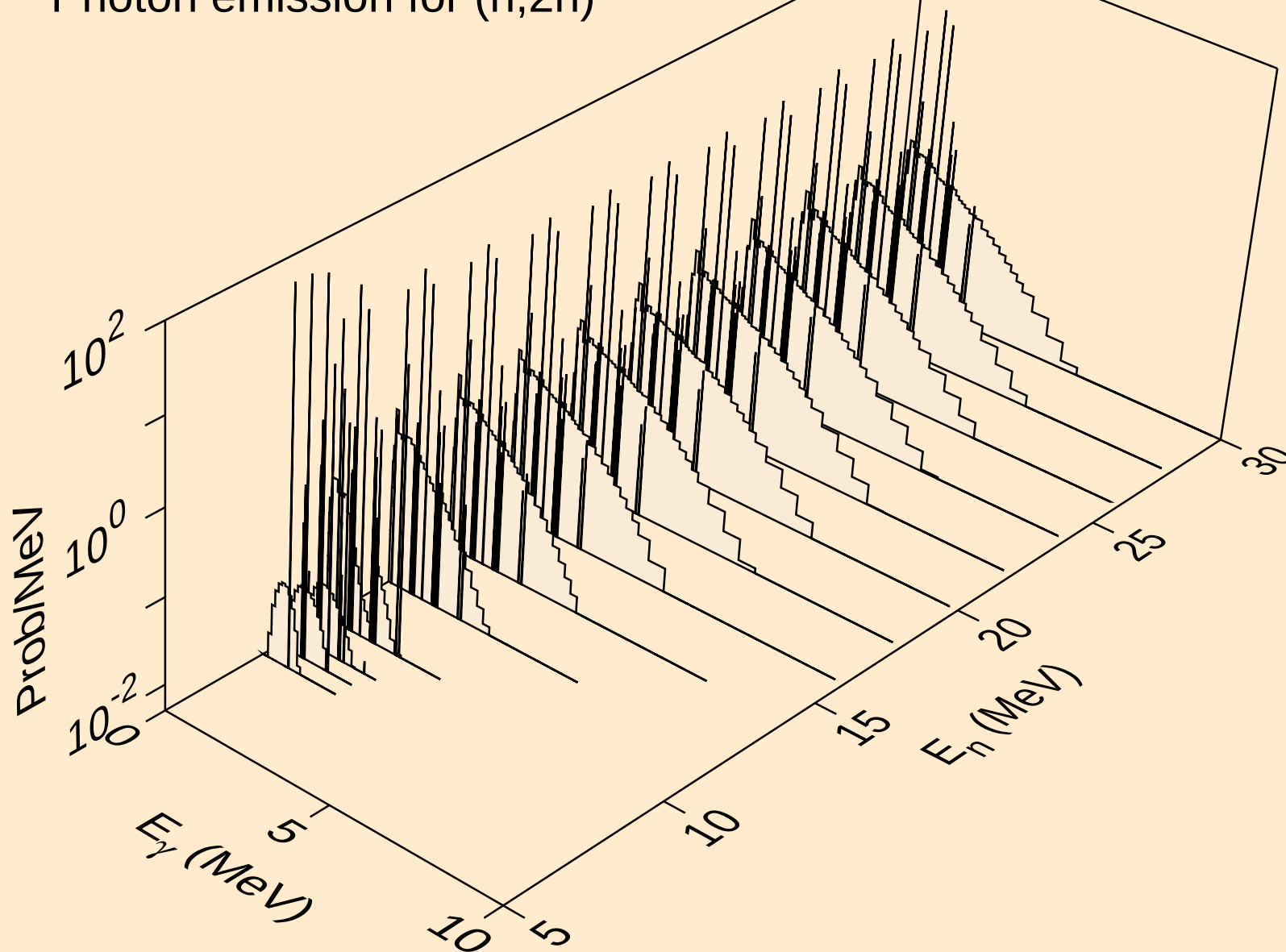
CE139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,x)



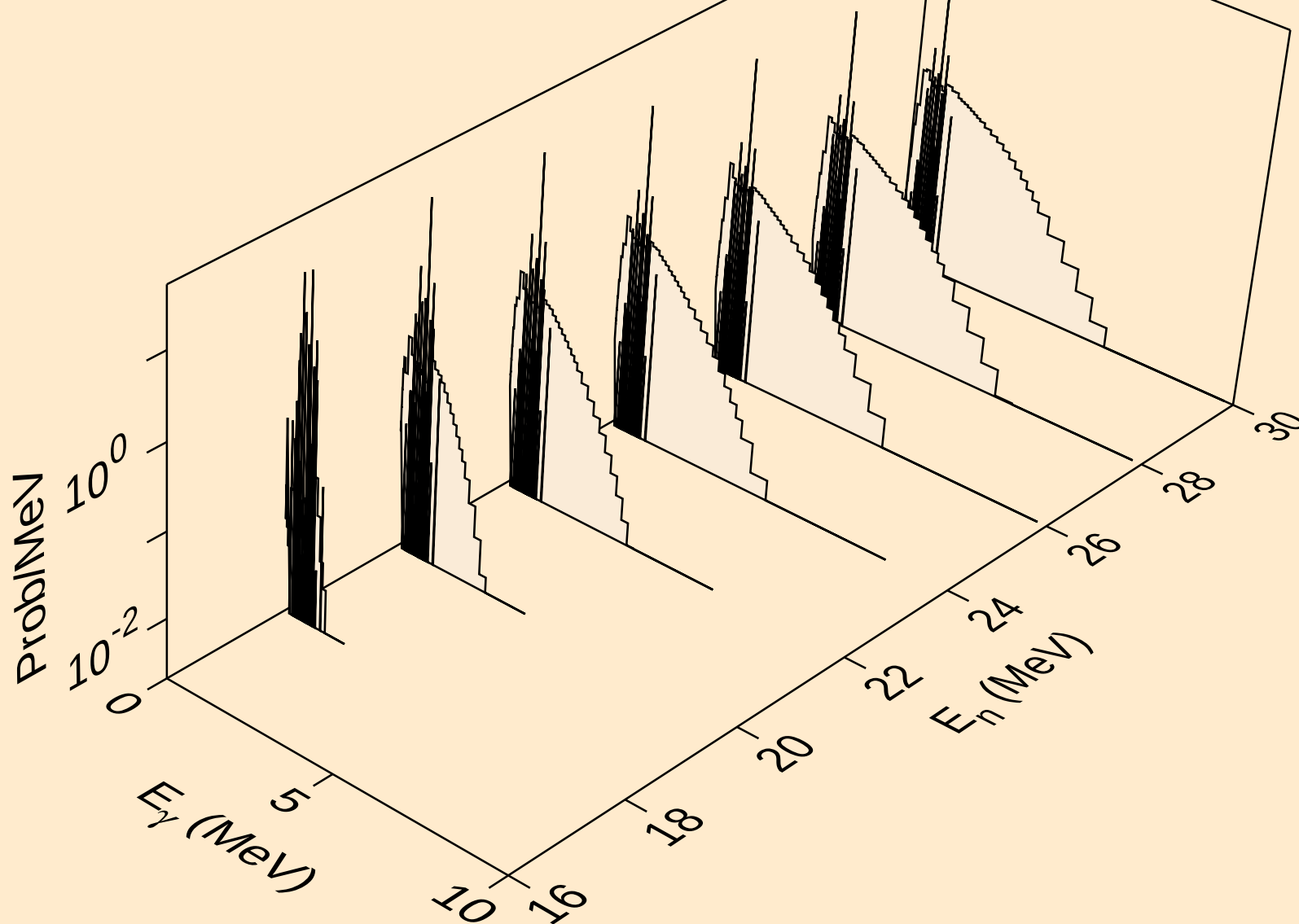
CE139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,2nd)



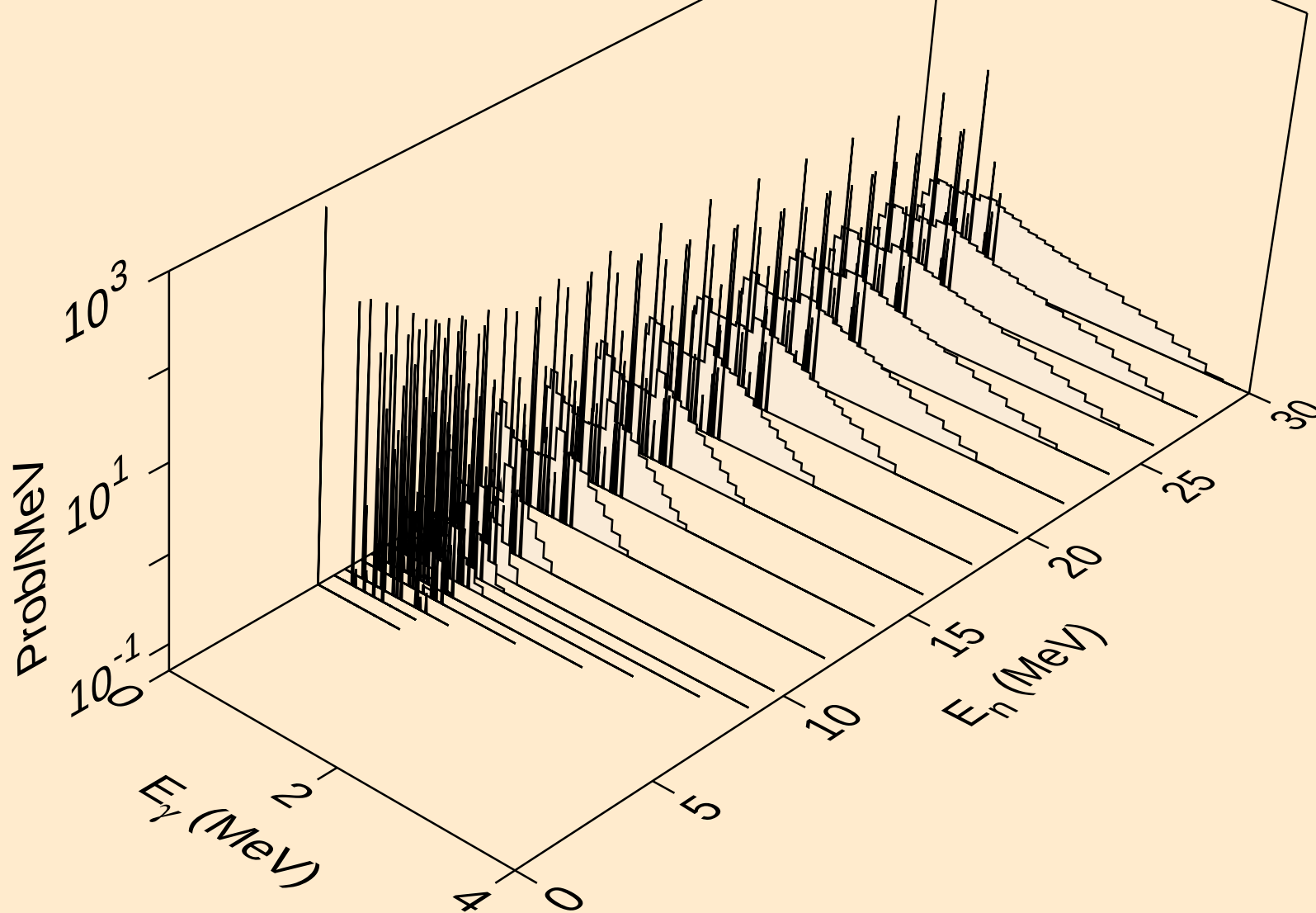
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Photon emission for (n,2n)



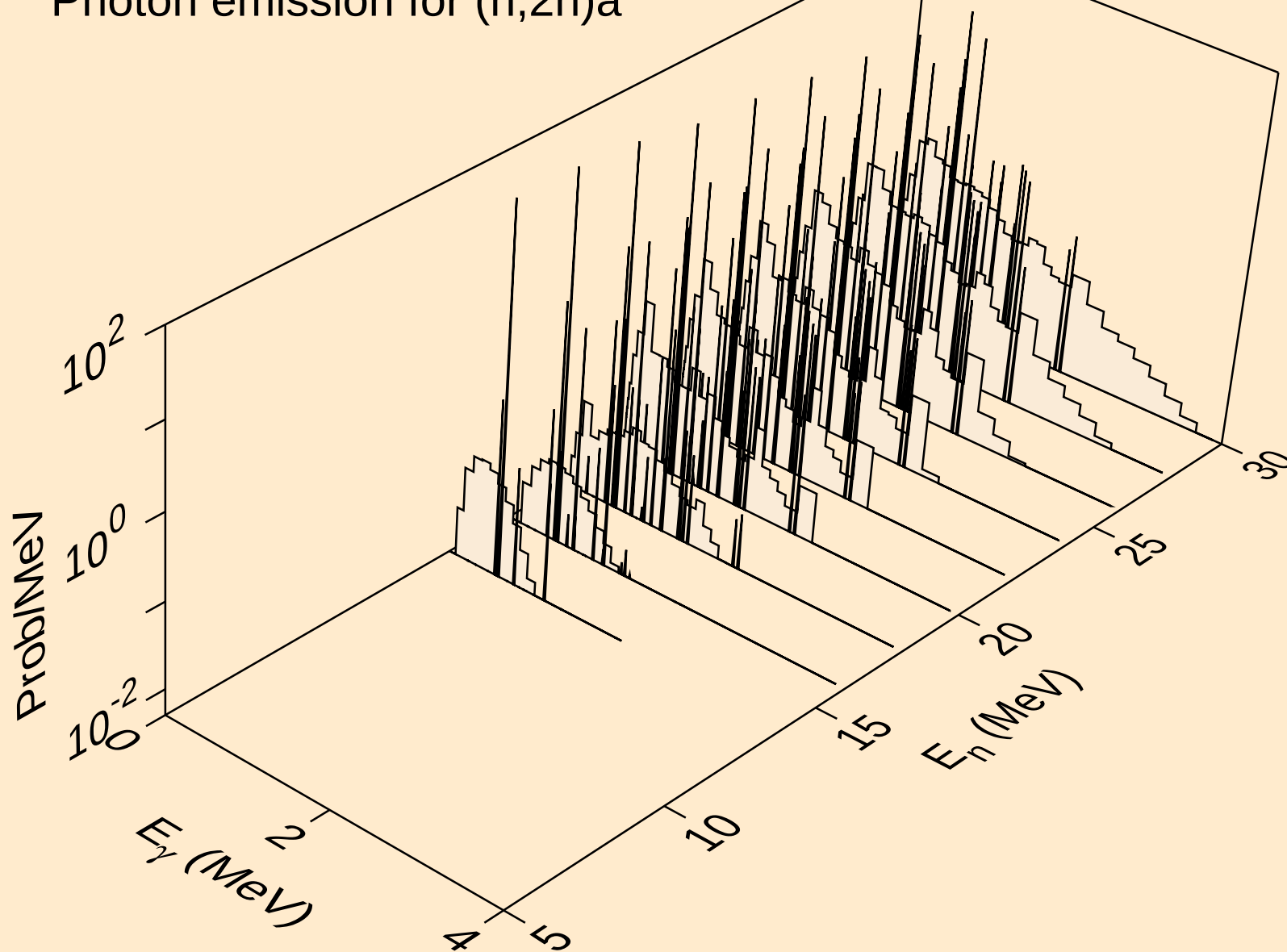
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Photon emission for (n,3n)



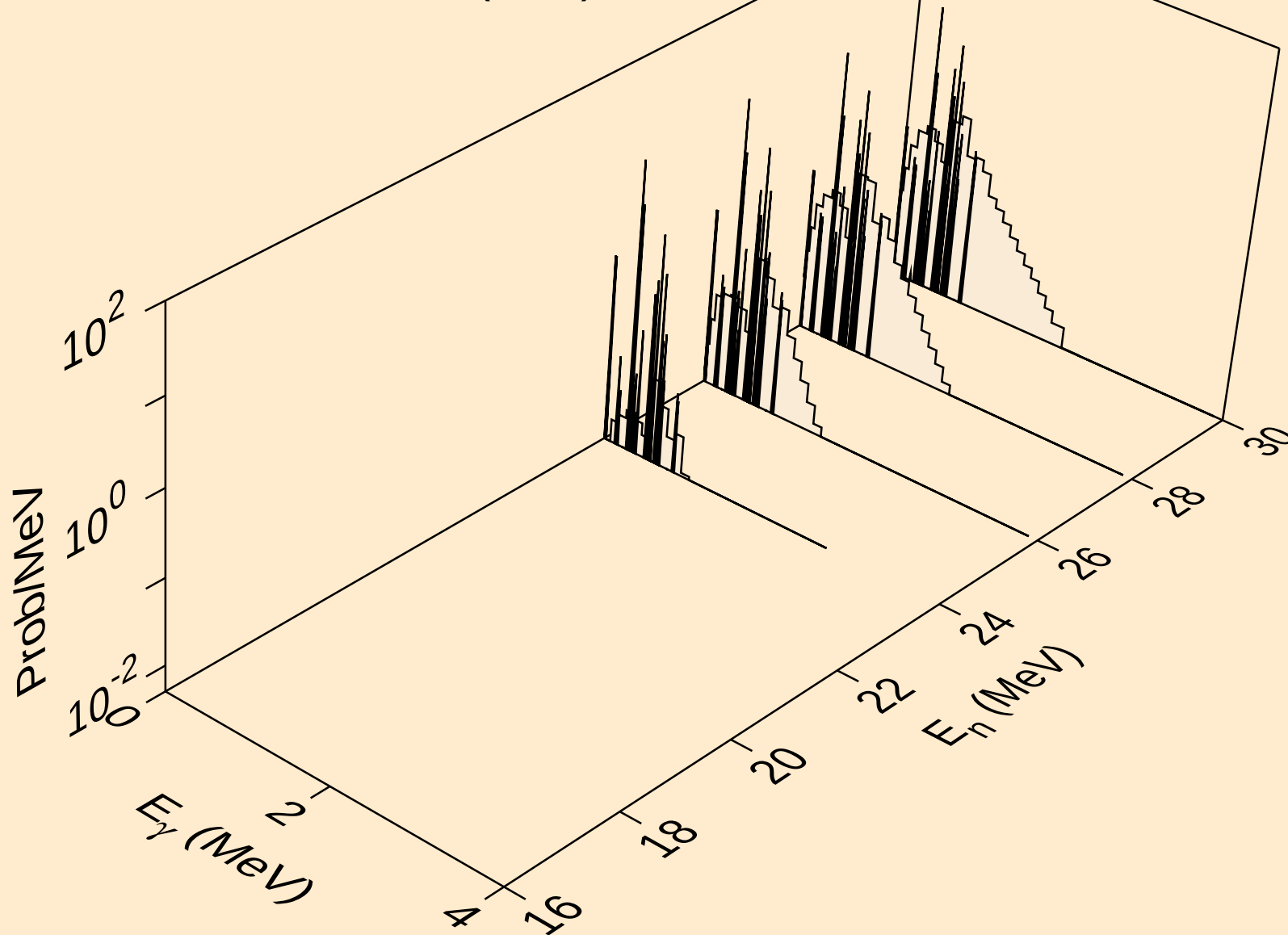
CE139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,n*)a



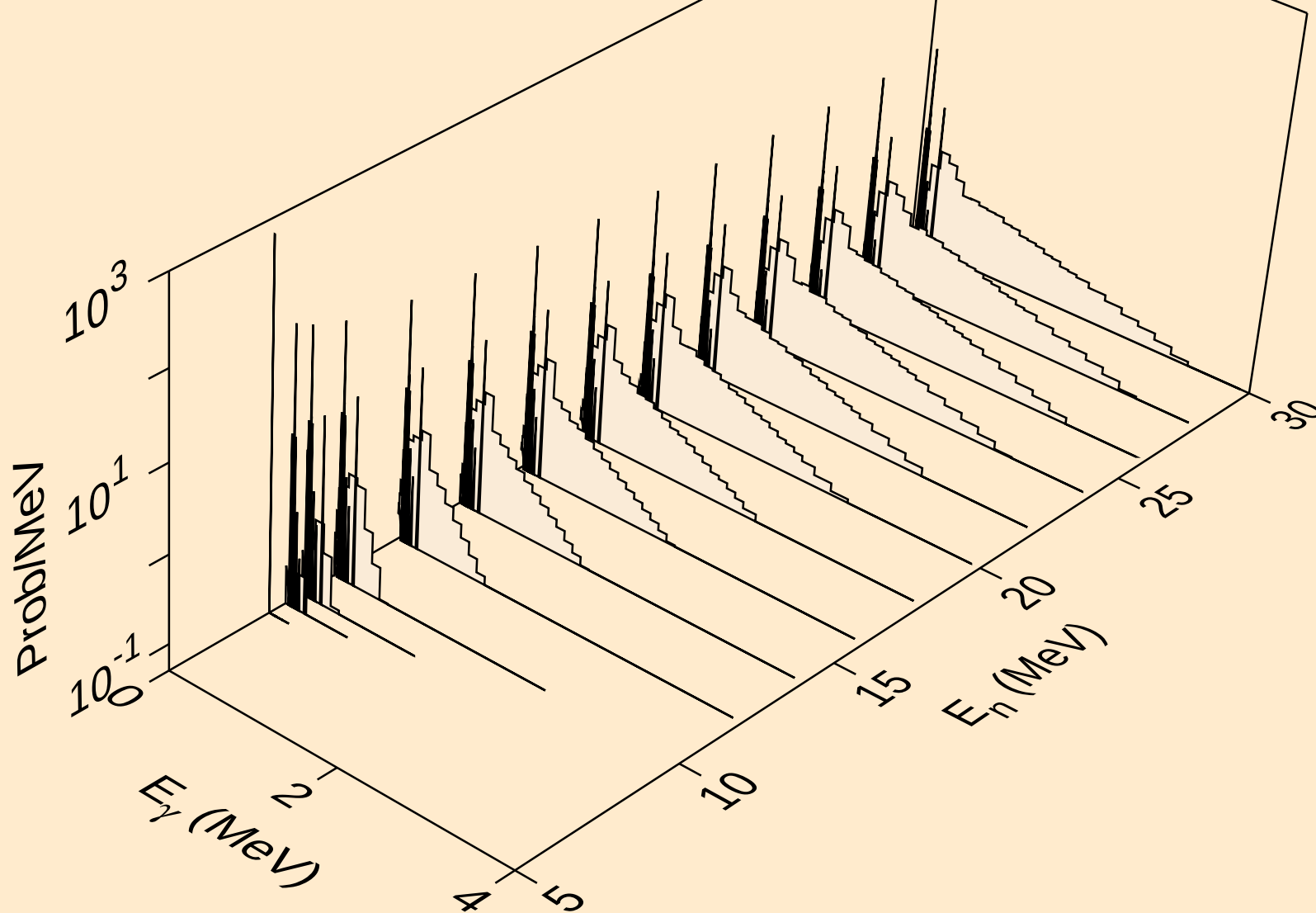
CE139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,2n)a



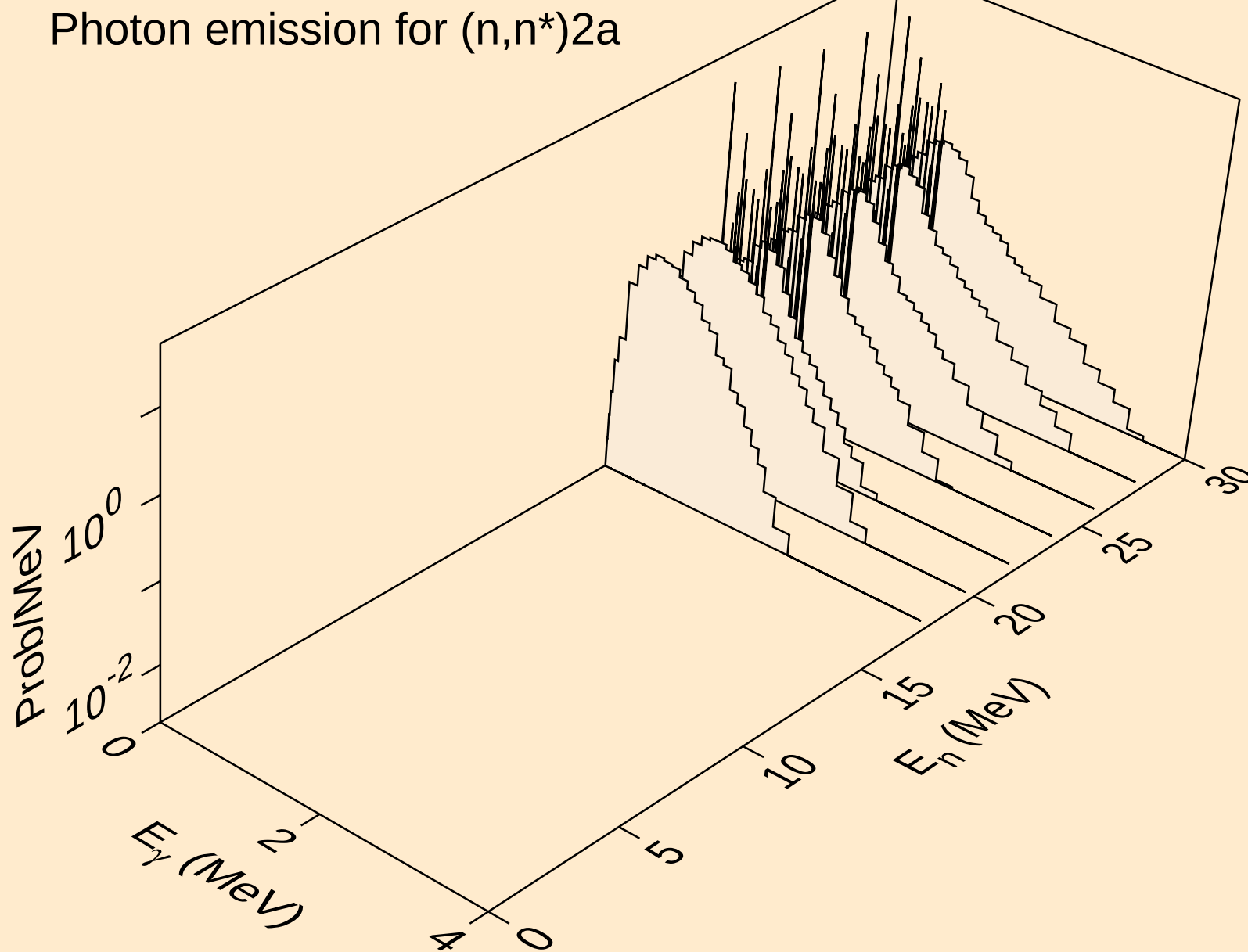
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Photon emission for (n,3n) α



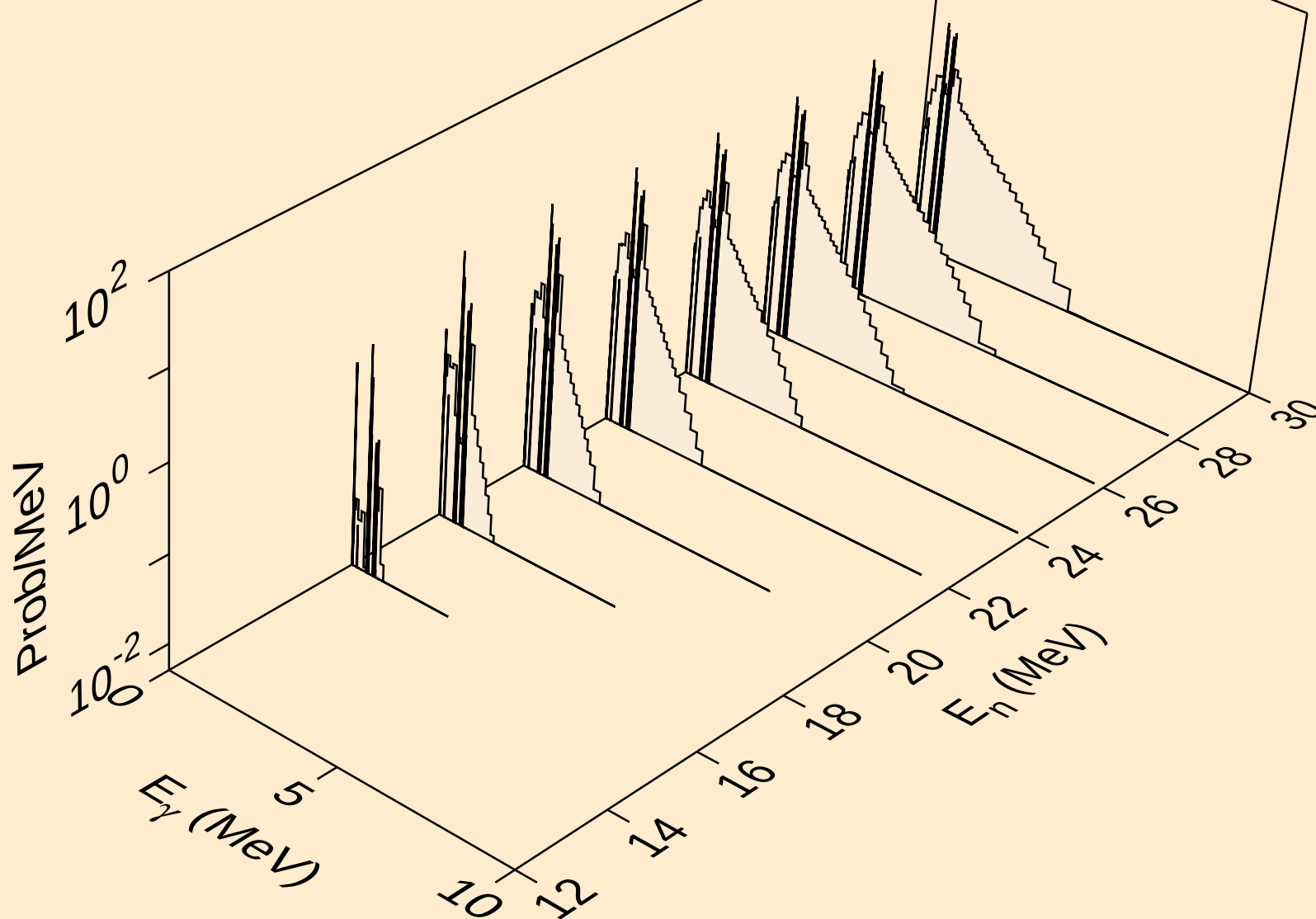
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Photon emission for (n,n*)p



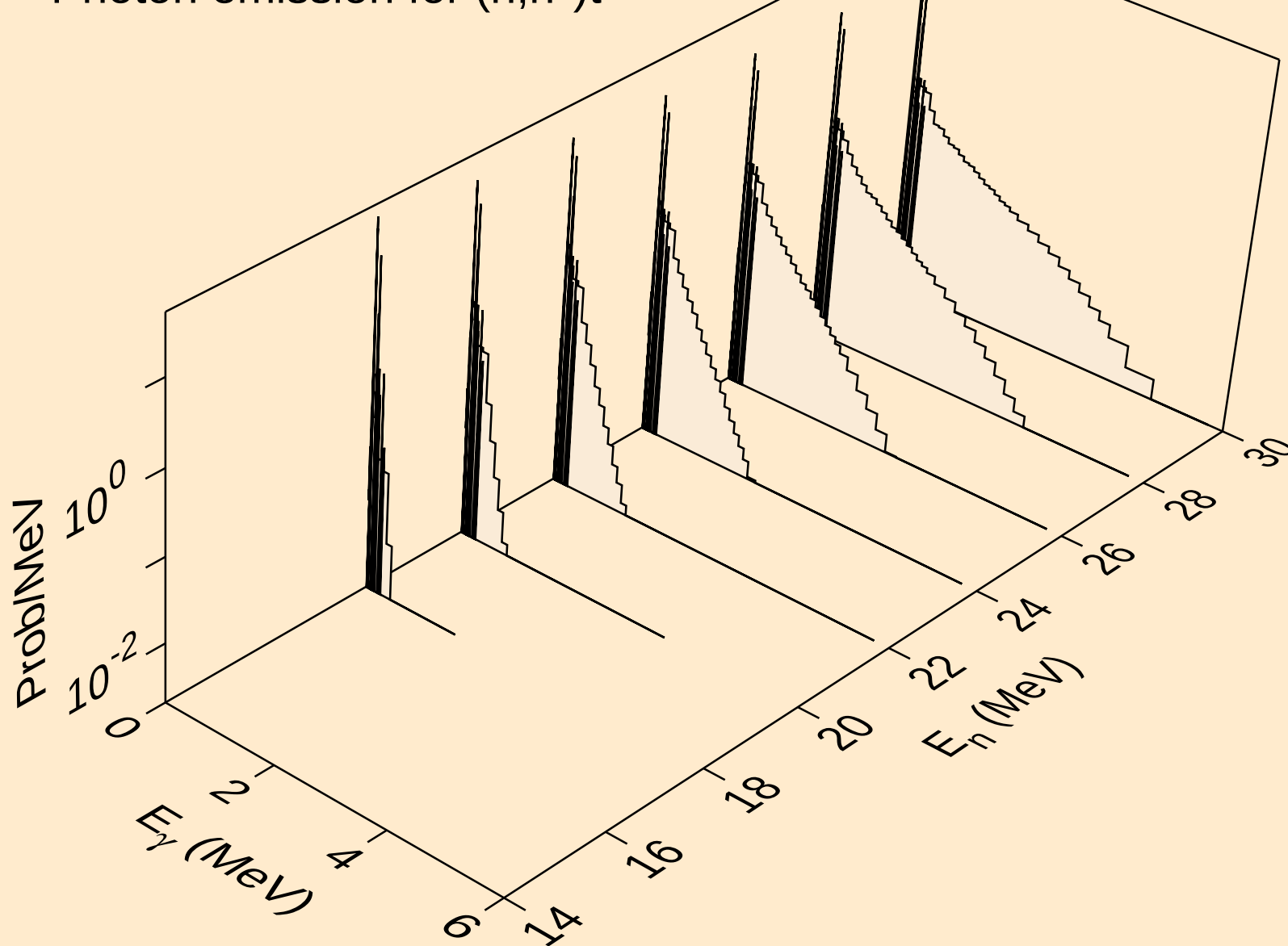
CE139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,n*)2a



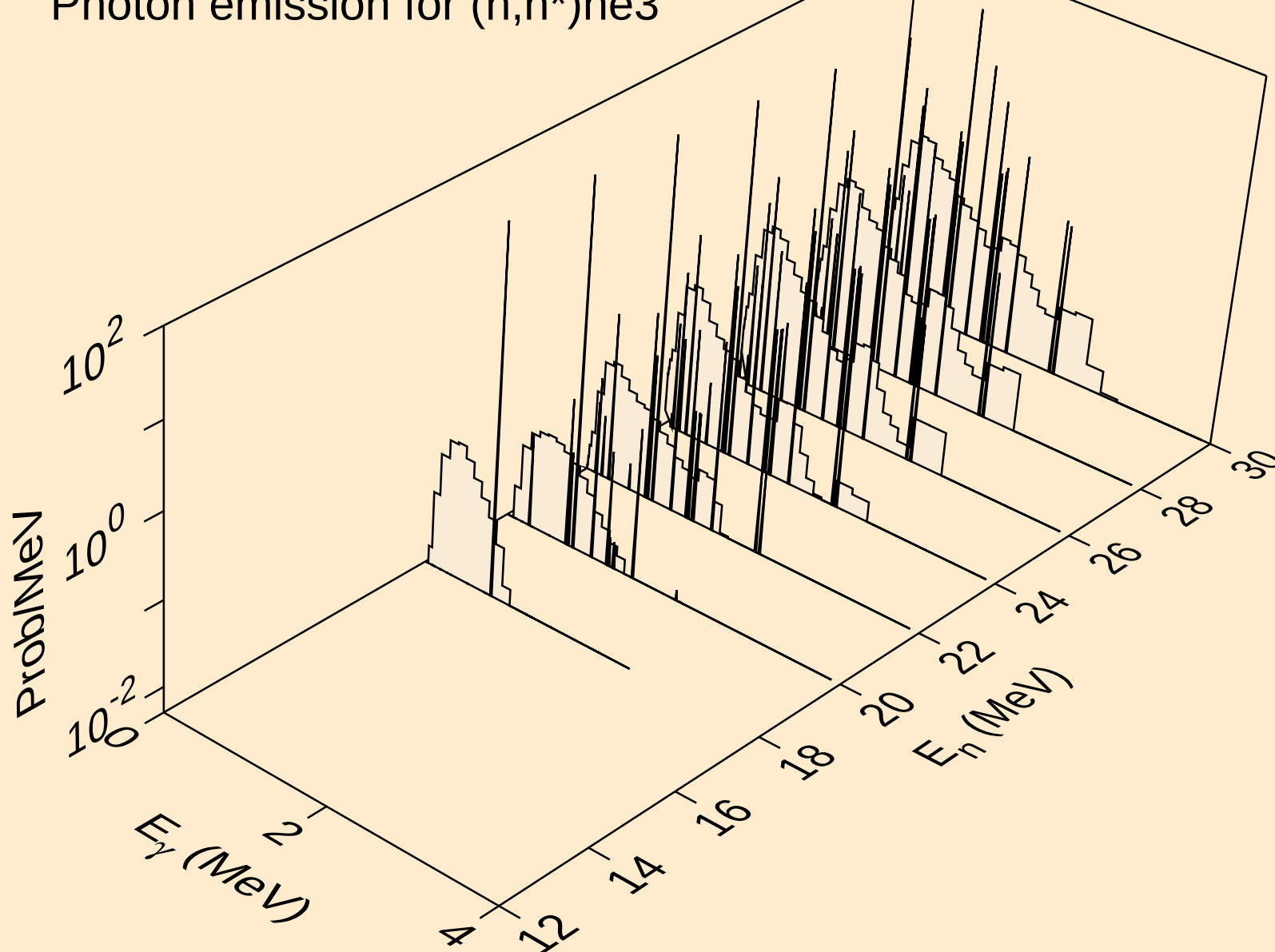
CE139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,n*)d



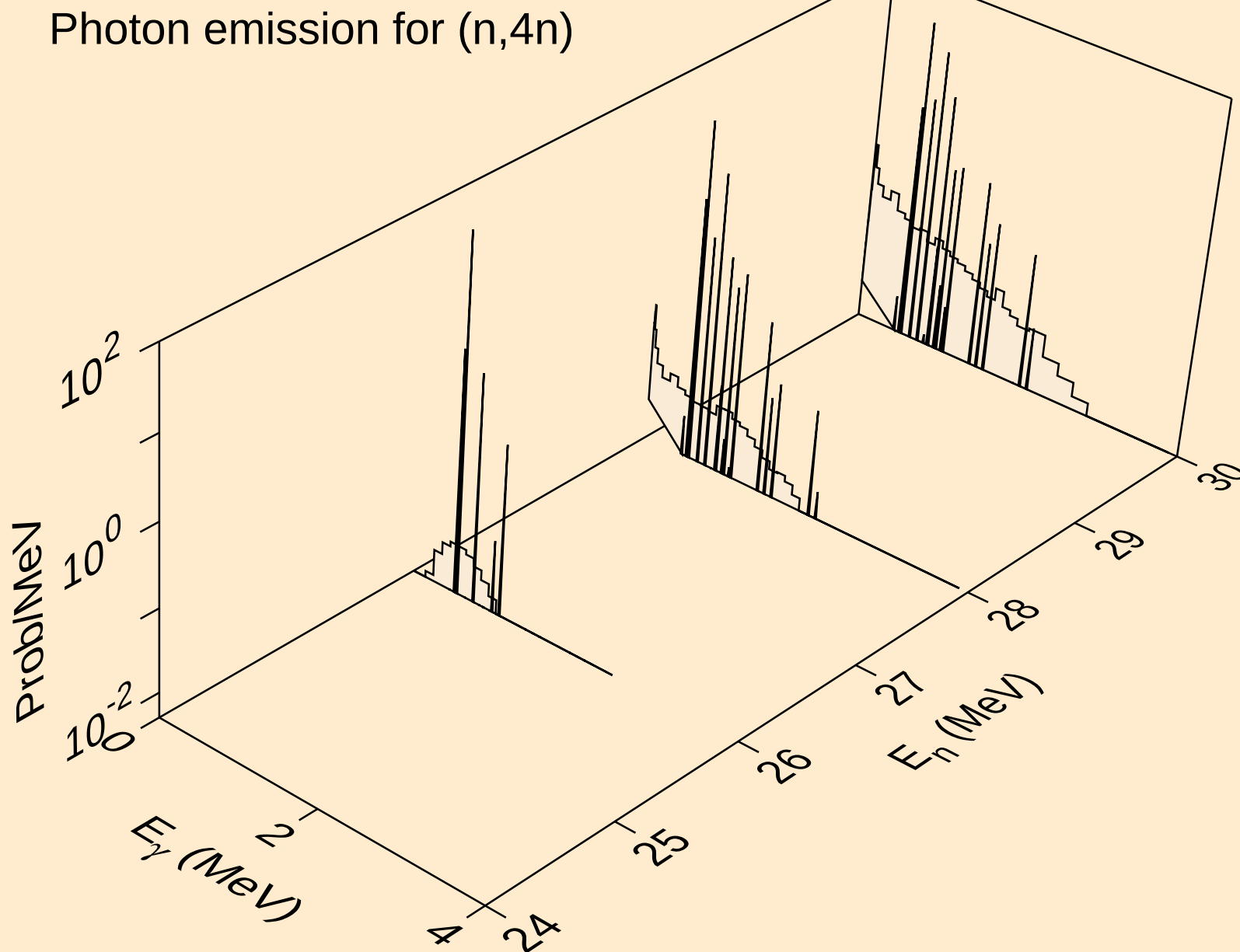
CE139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,n*)t



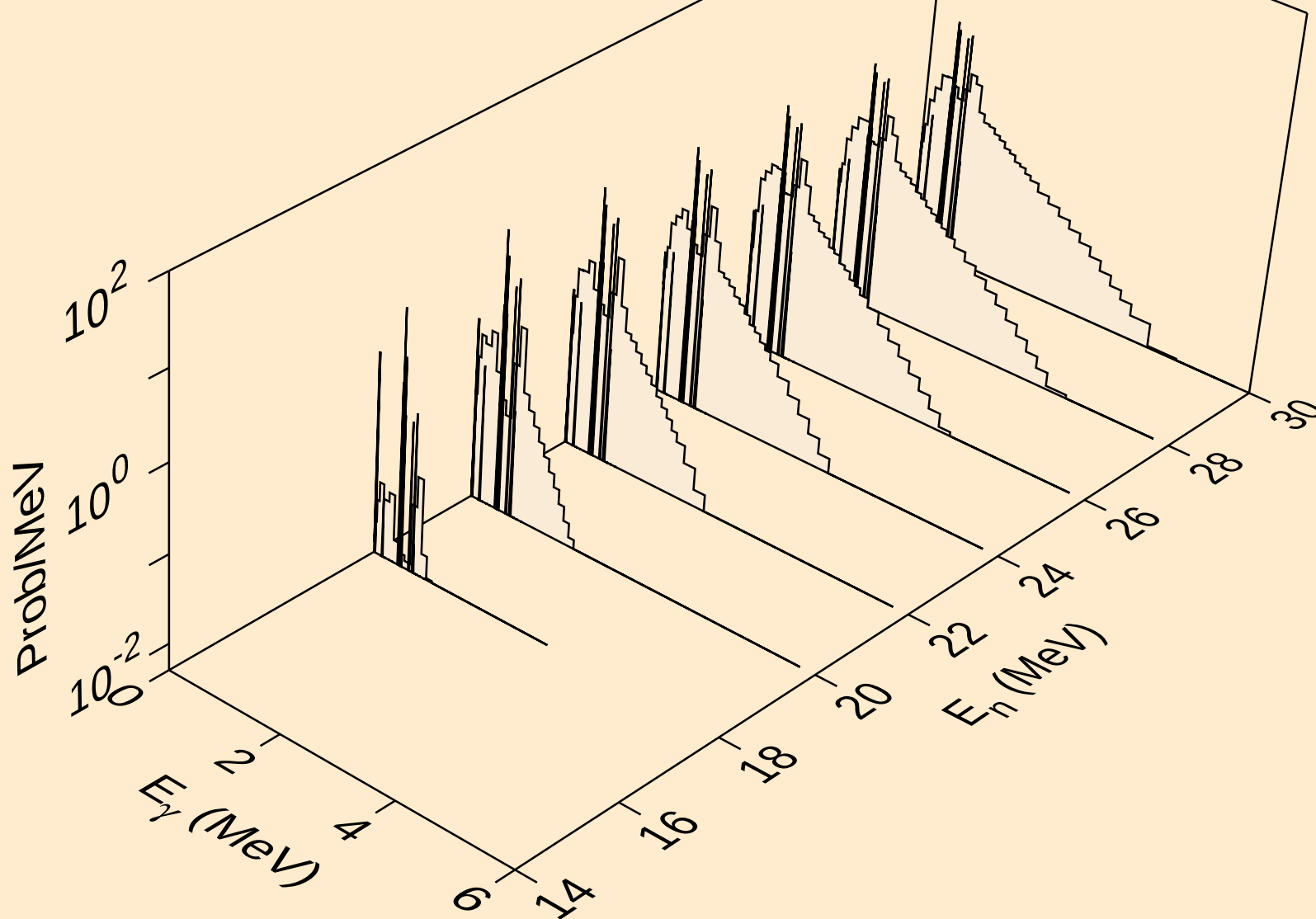
CE139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,n*)he3



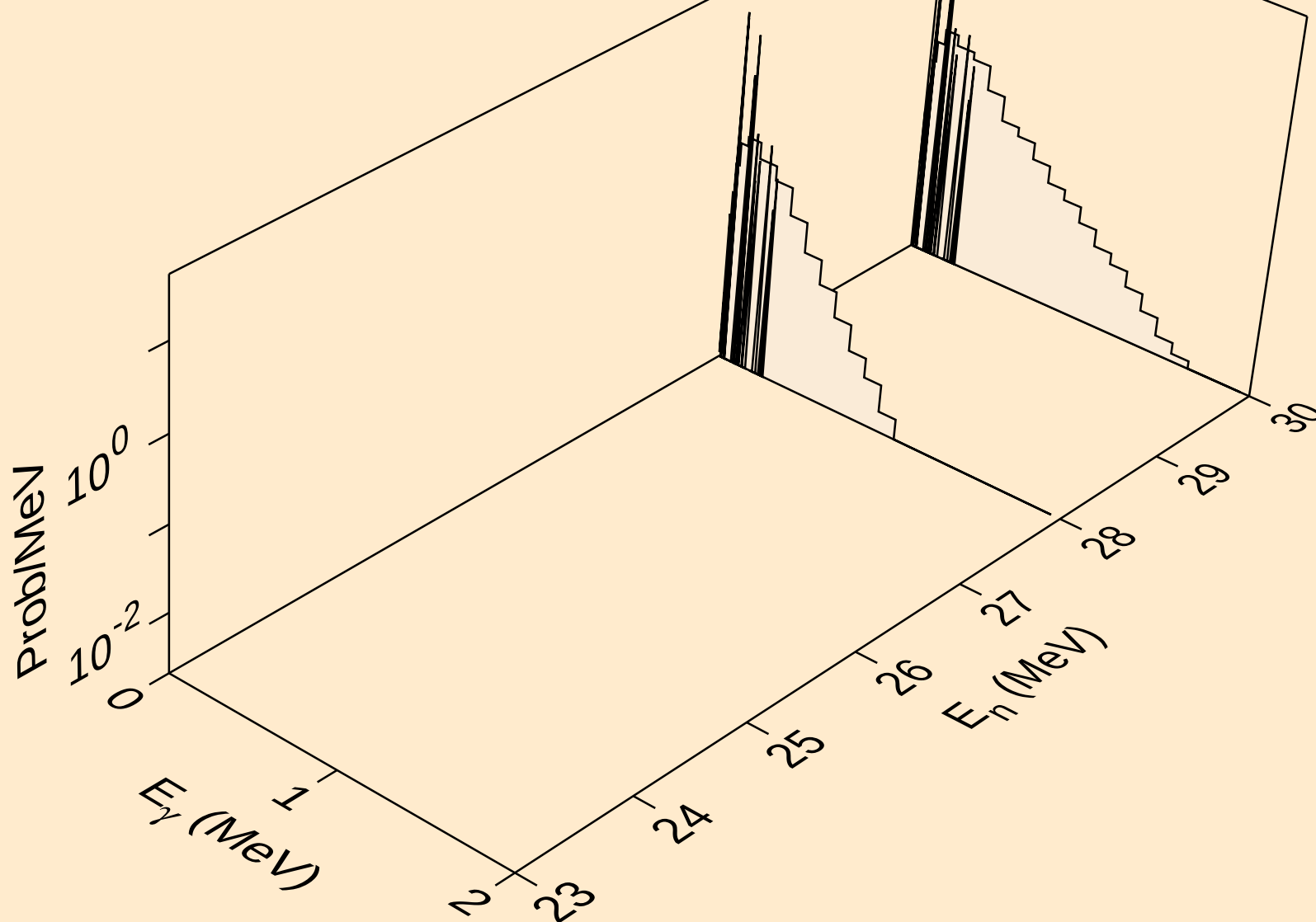
CE139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,4n)



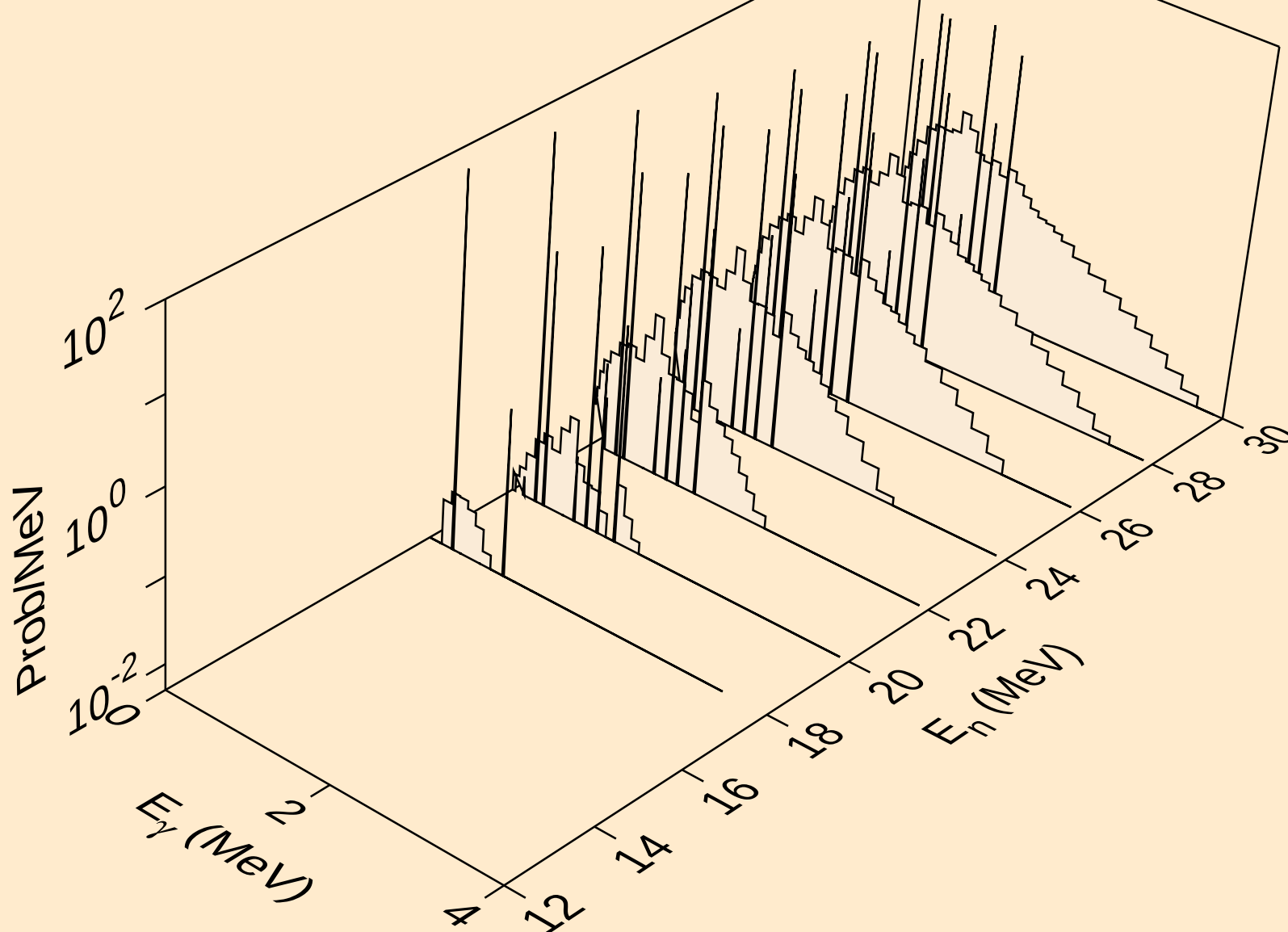
CE139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,2np)



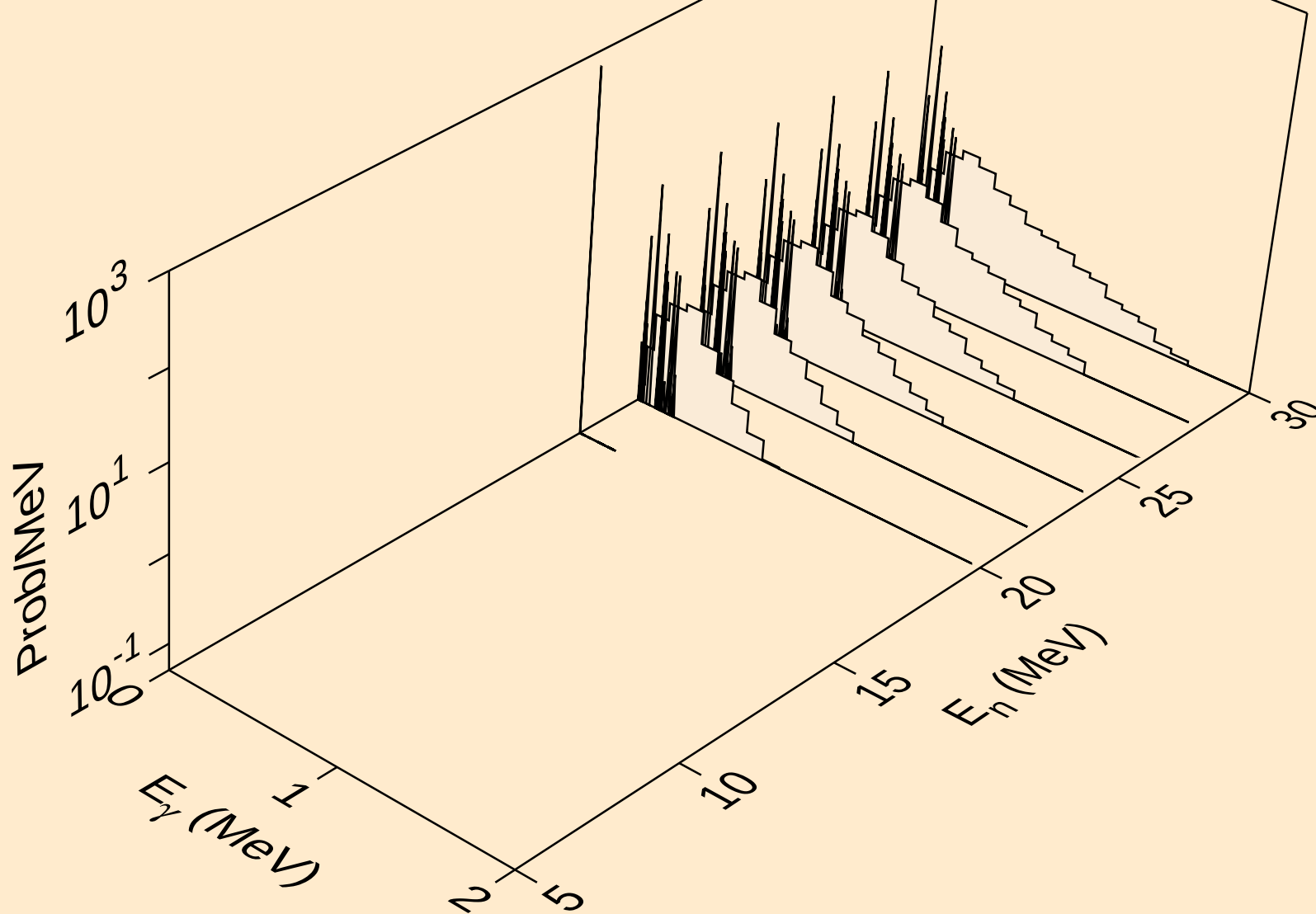
CE139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,3np)



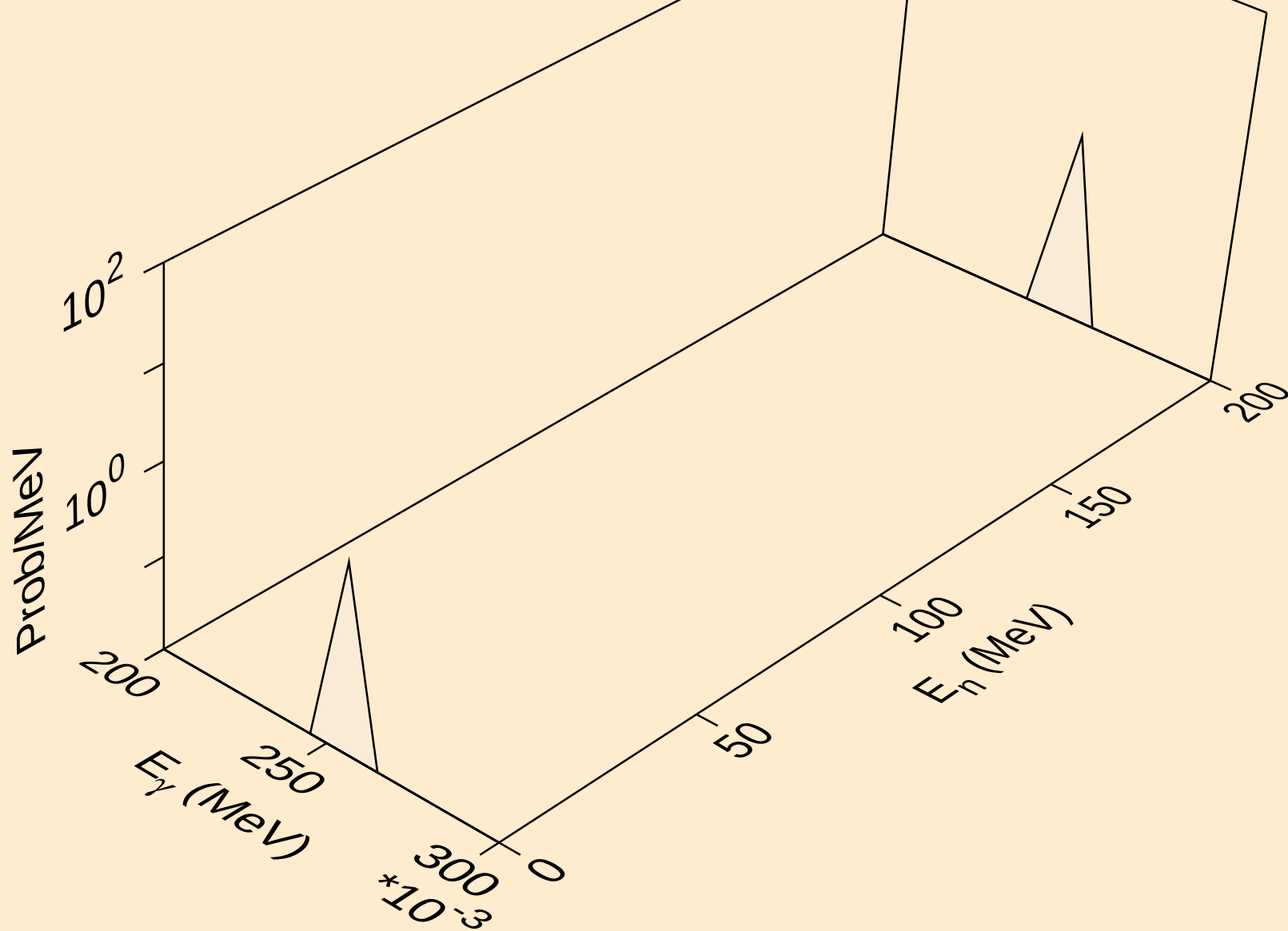
CE139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,n2p)



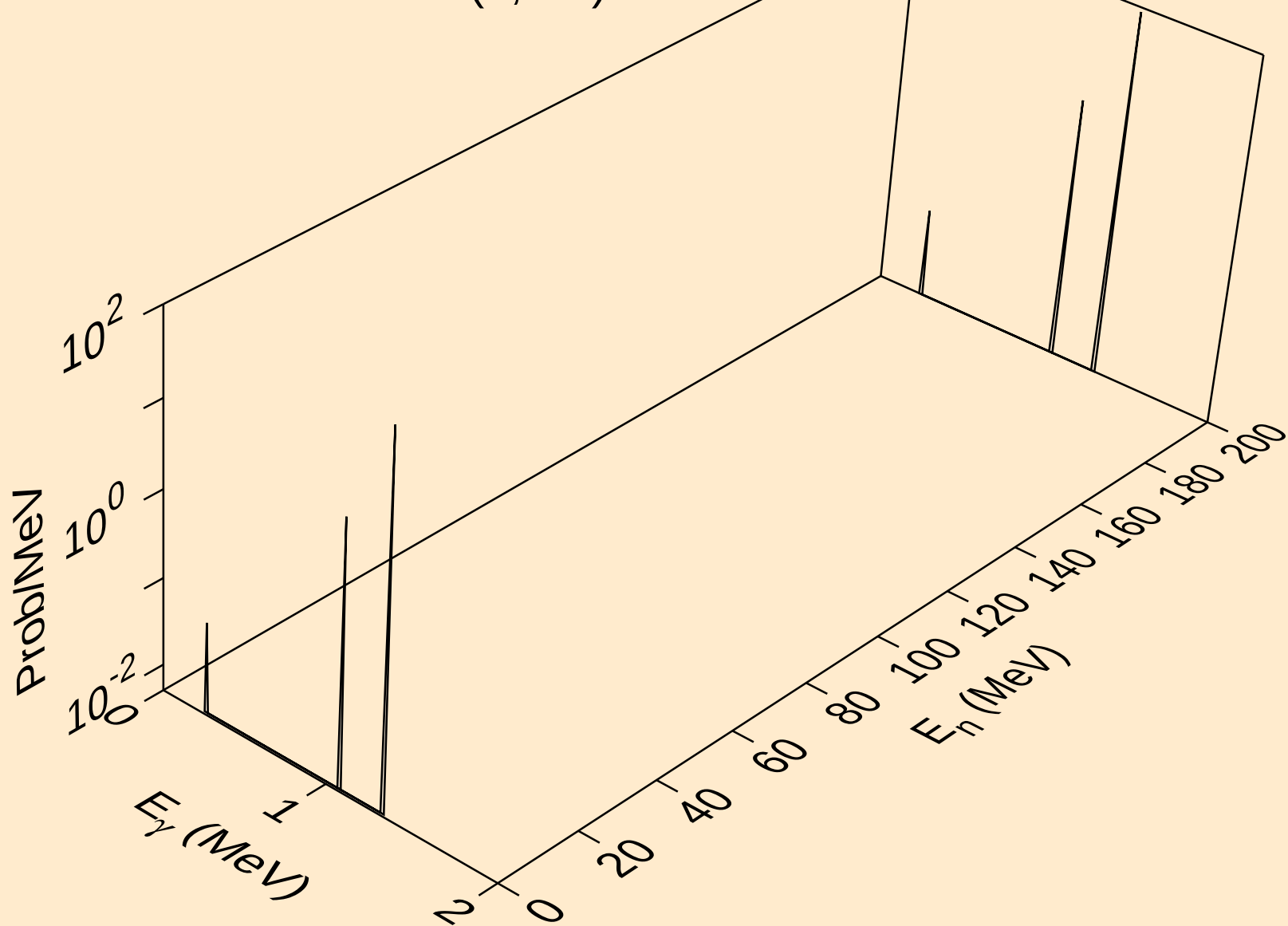
CE139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,npa)



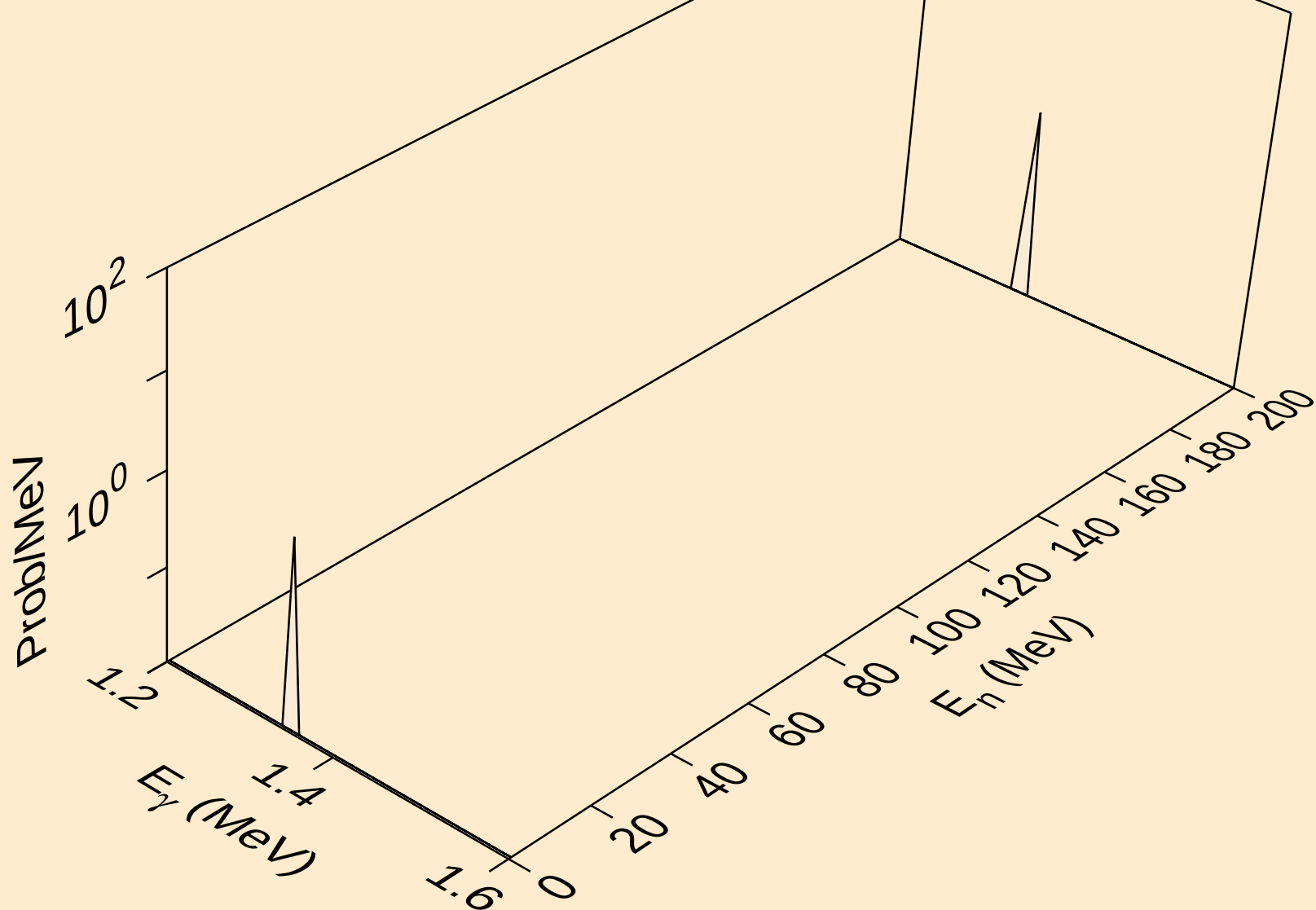
CE139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,n*1)



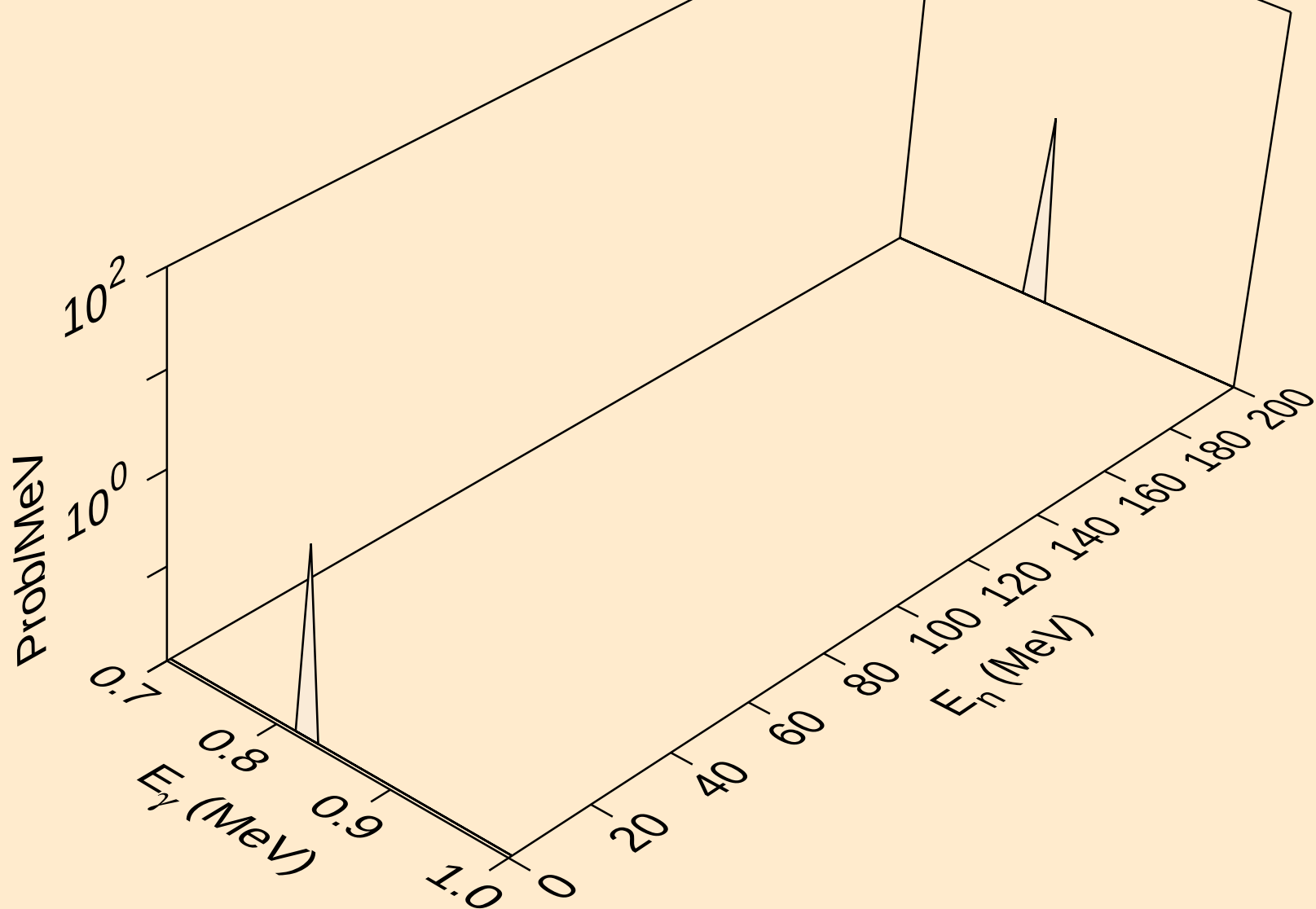
CE139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,n*3)



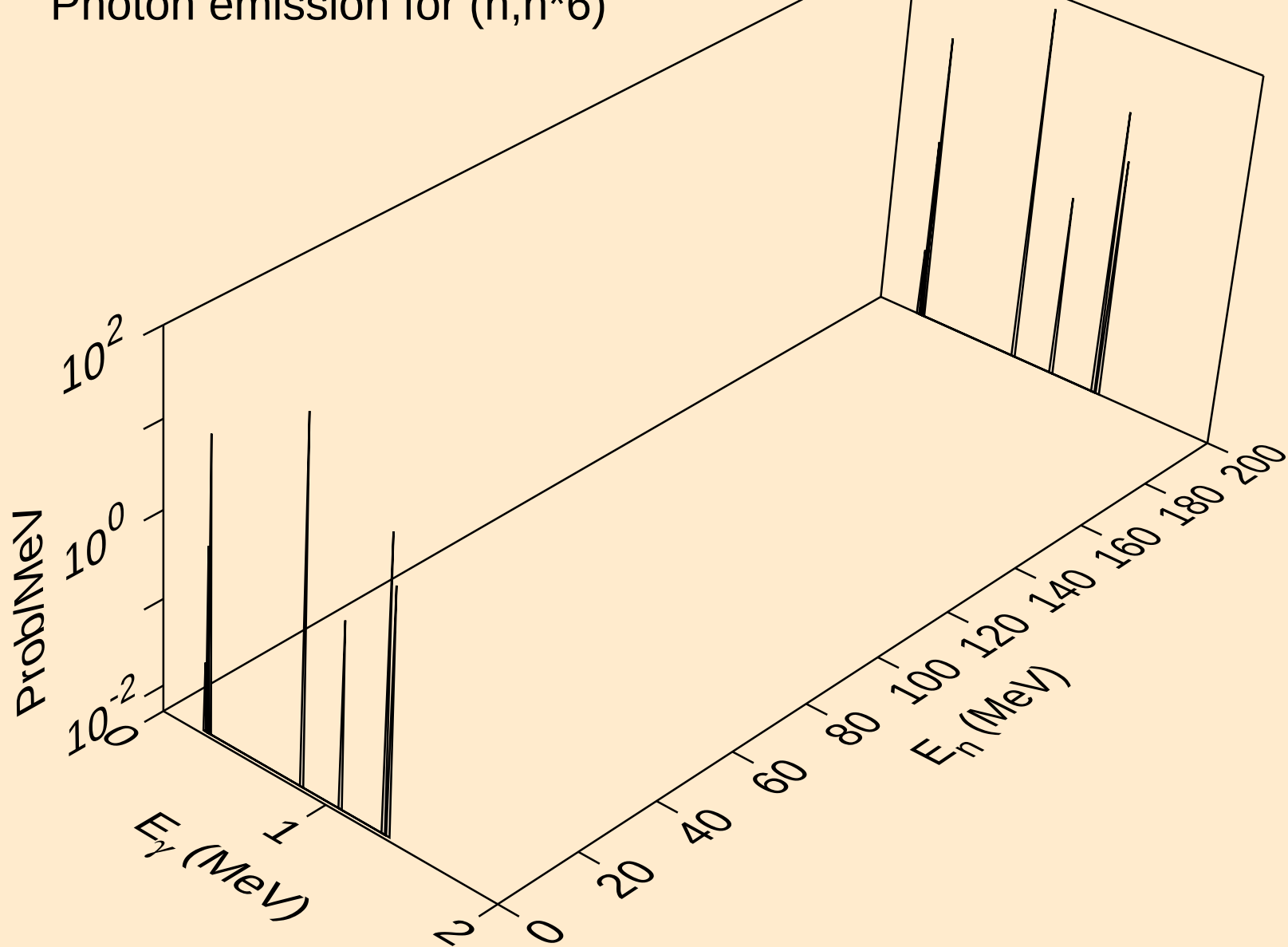
CE139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,n*4)



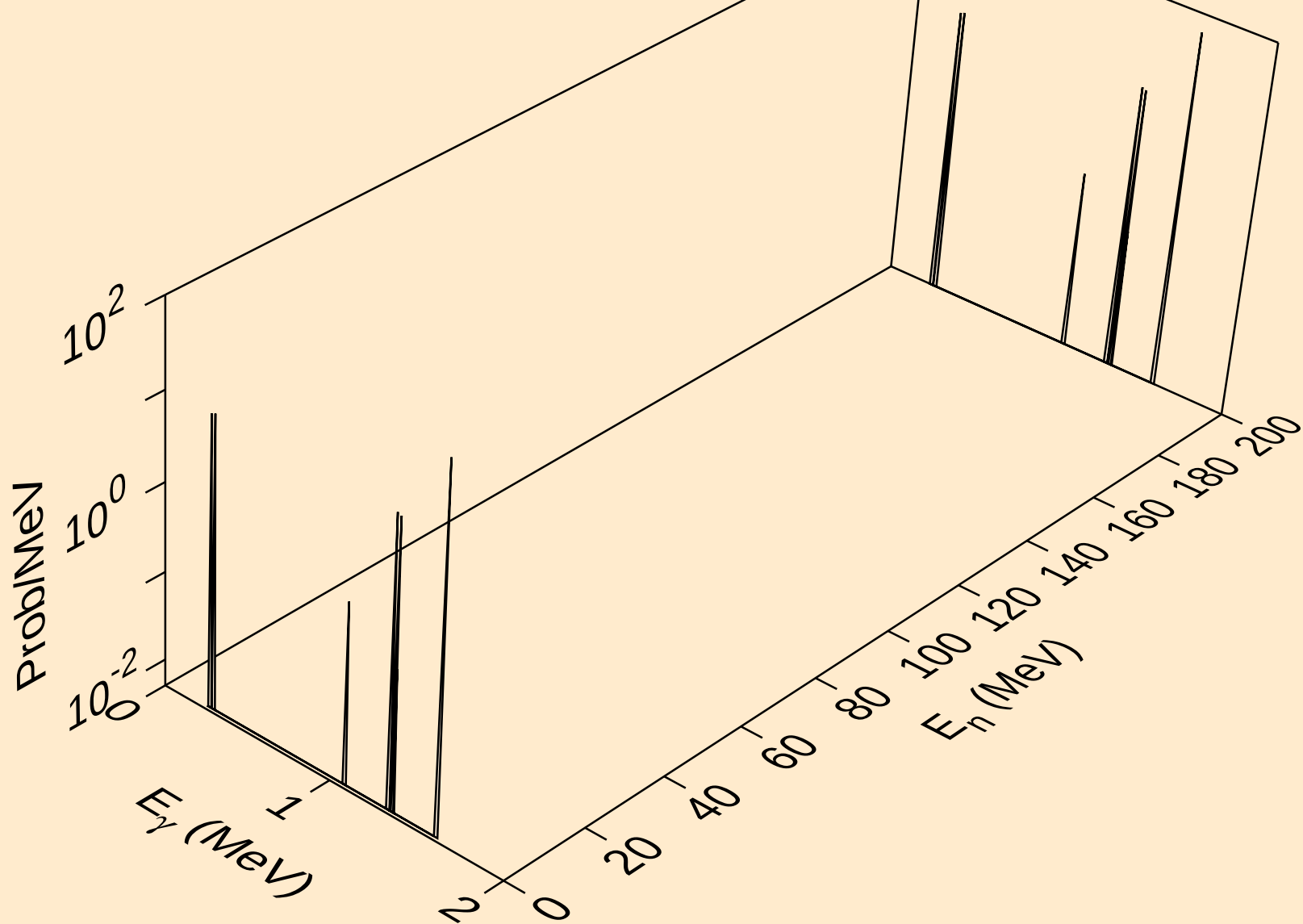
CE139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,n*5)



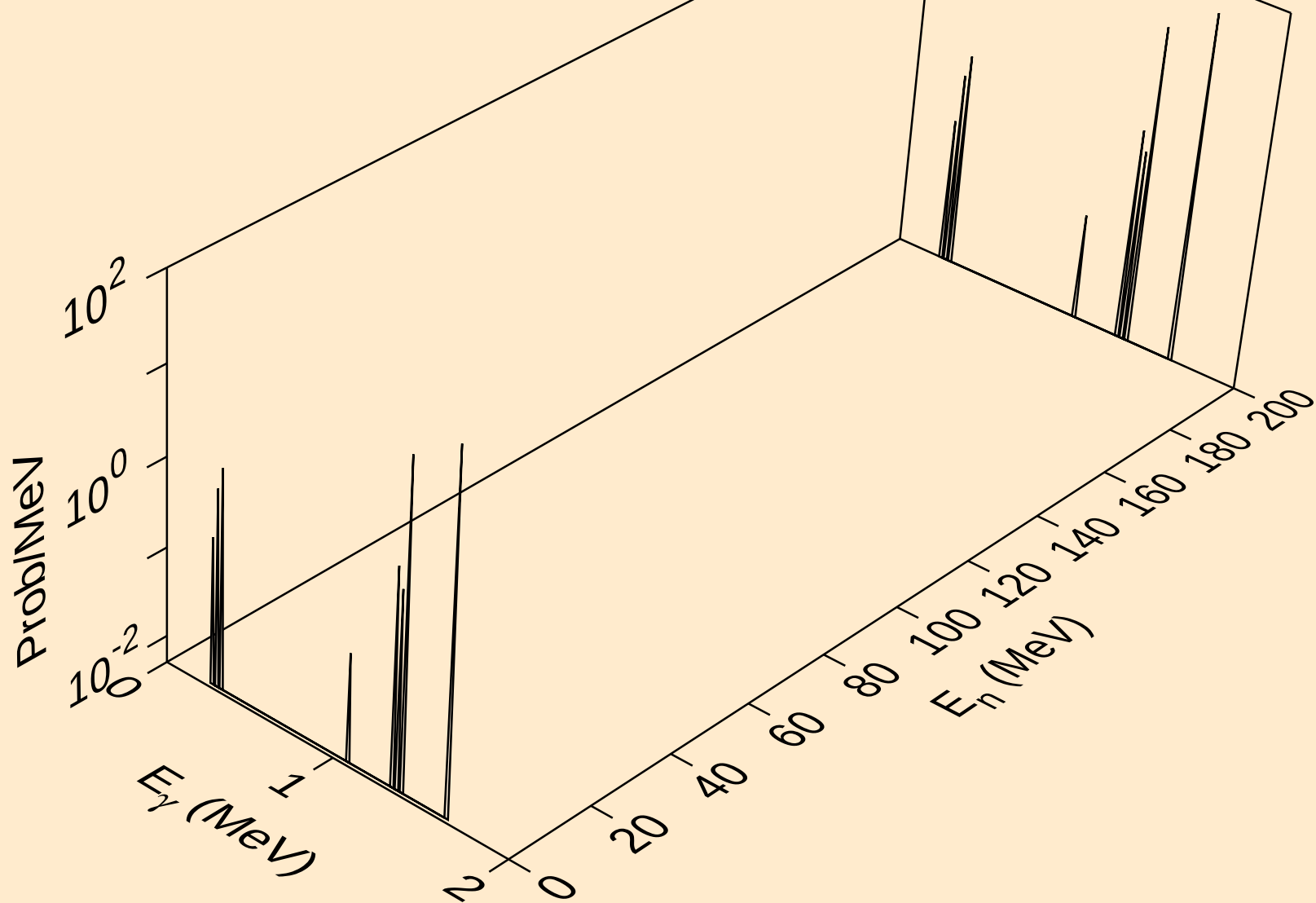
CE139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,n*6)



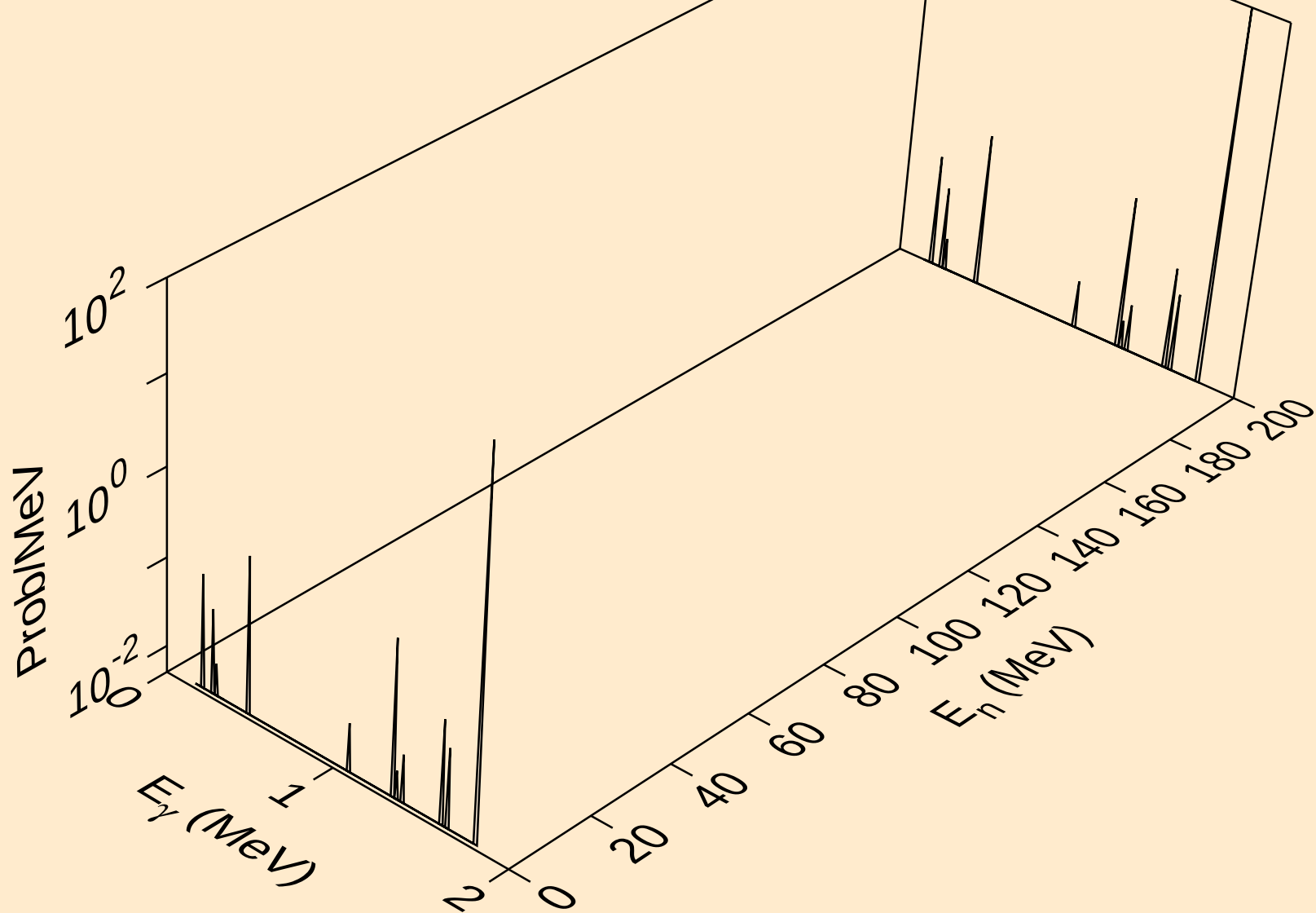
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Photon emission for (n,n*7)



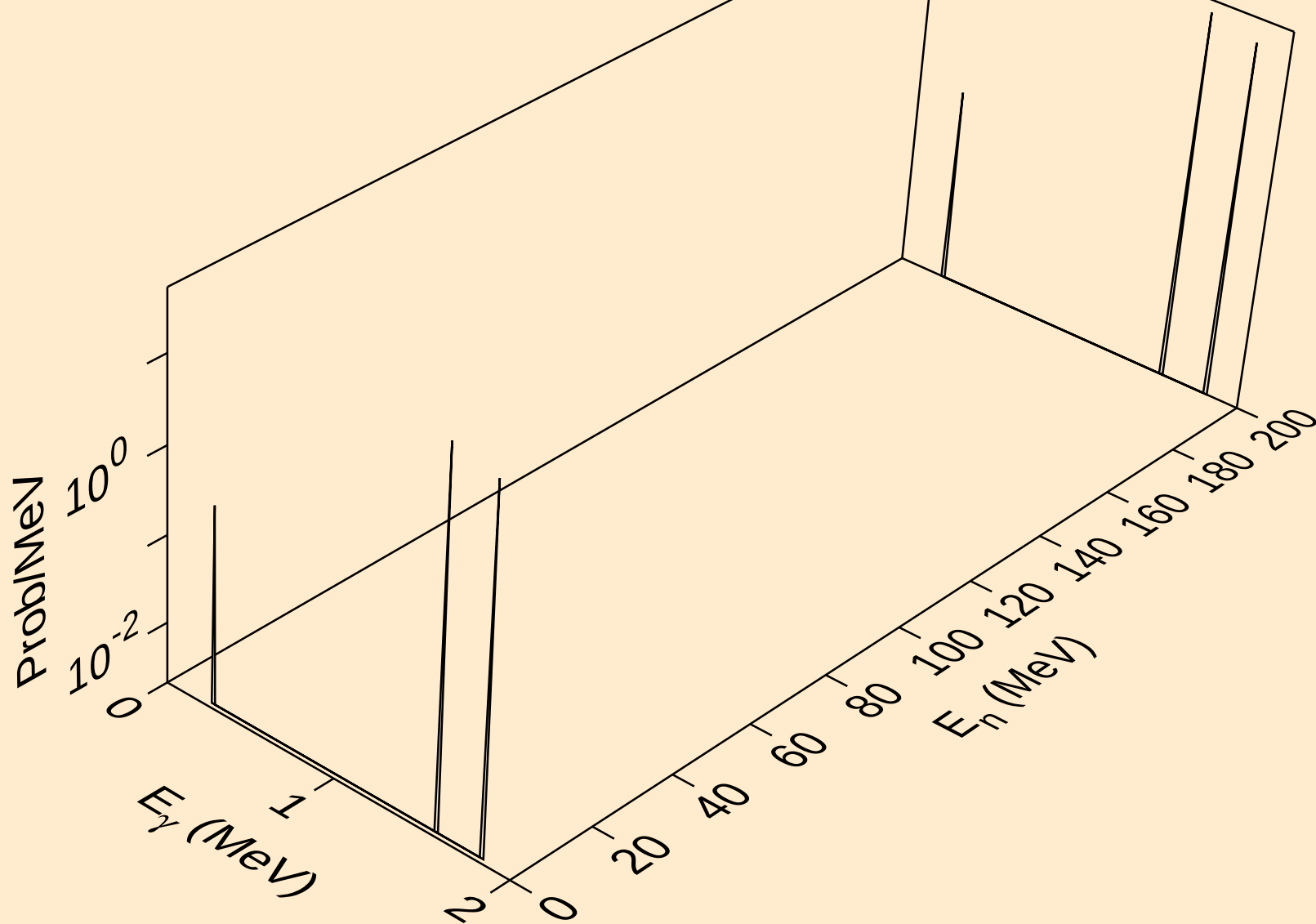
CE139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,n*8)



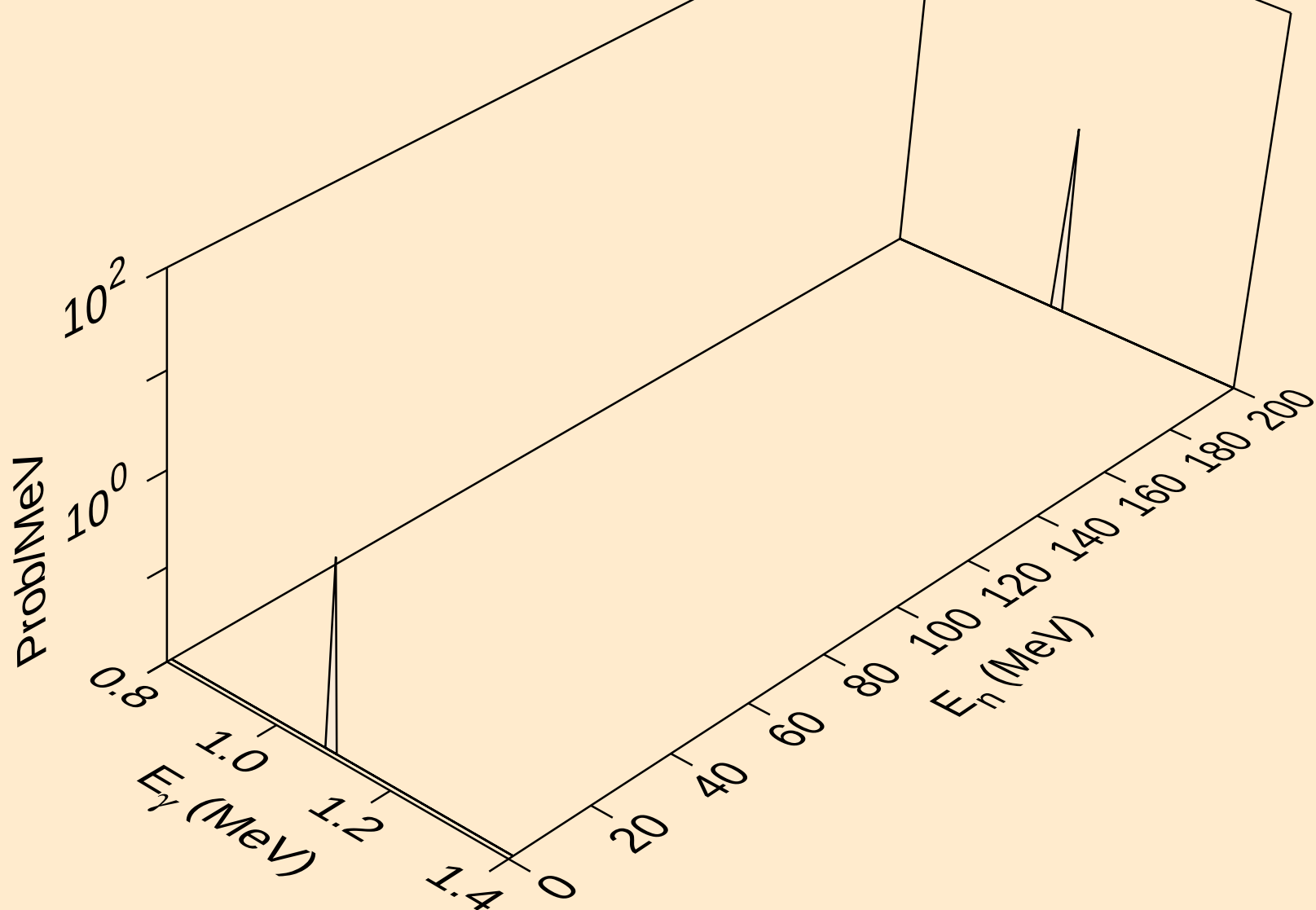
CE139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,n*9)



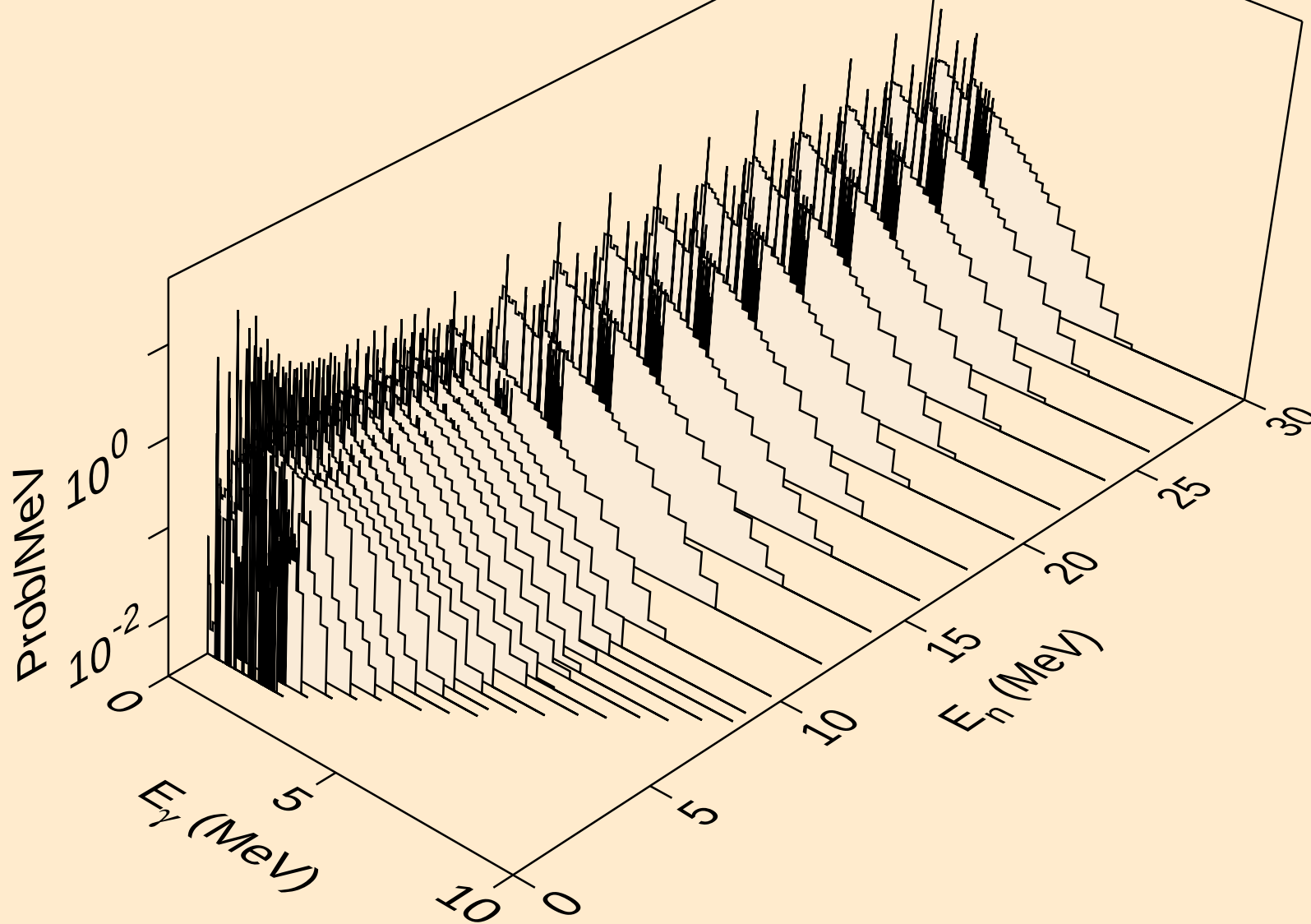
CE139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,n*10)



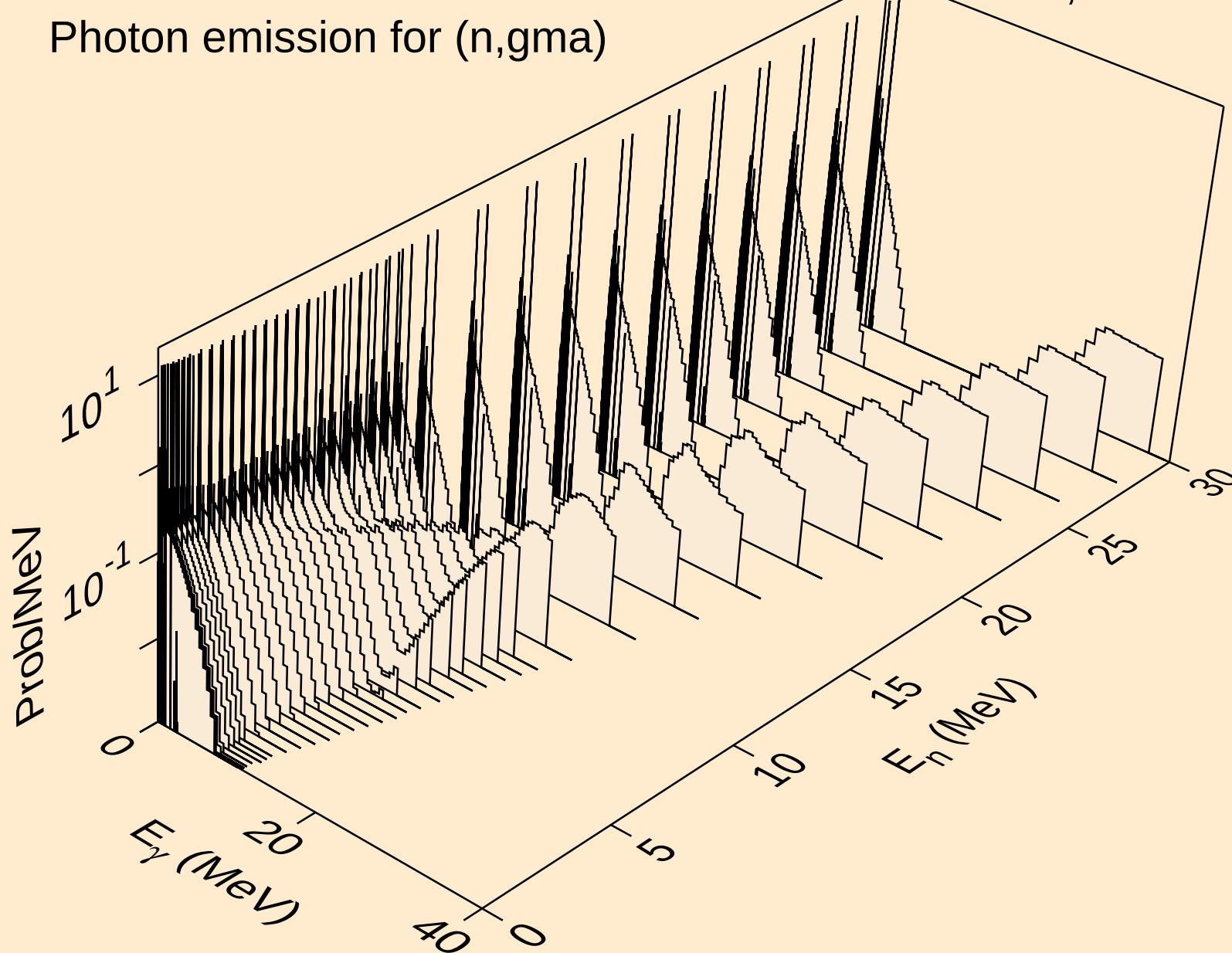
CE139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,n*11)



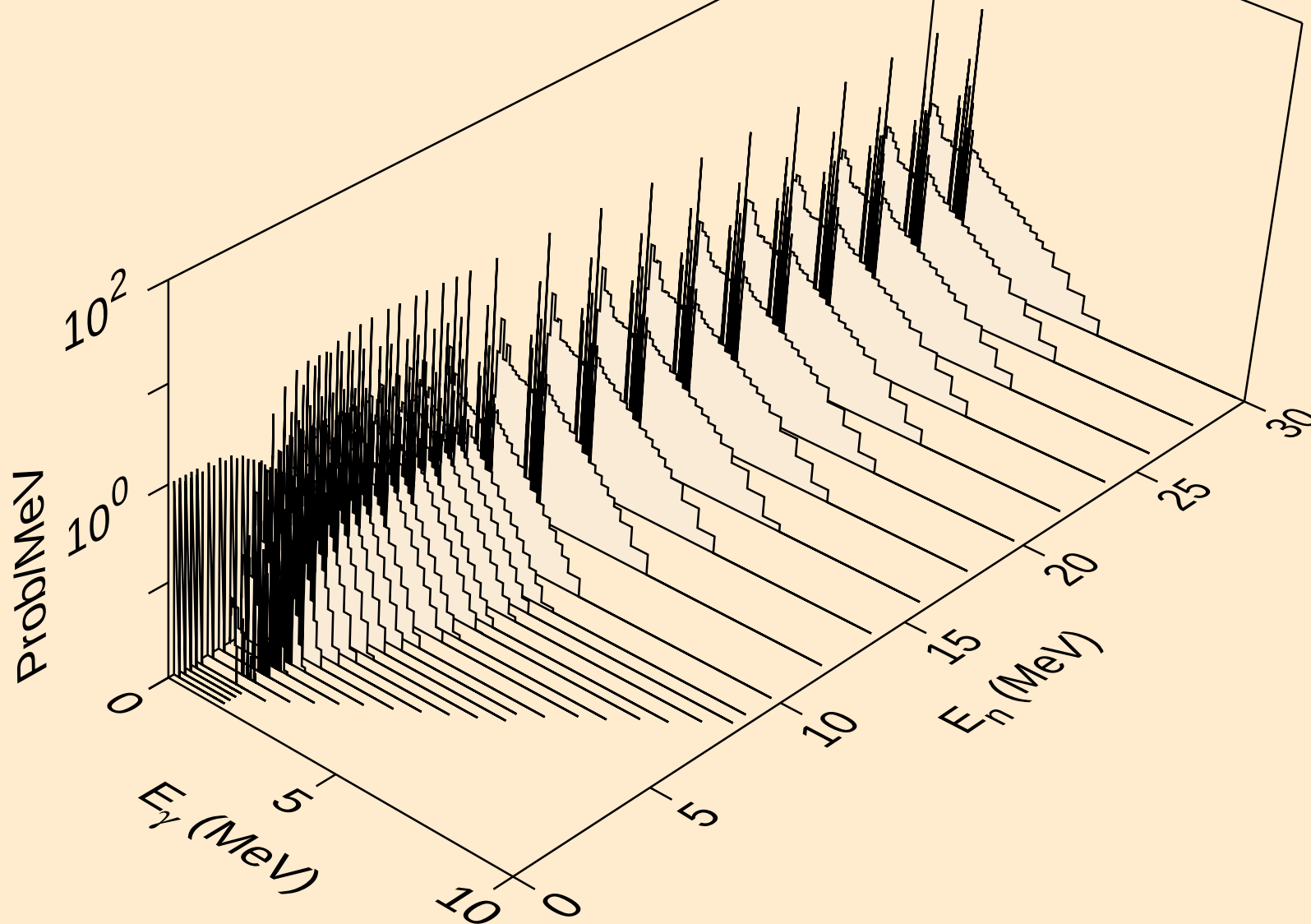
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Photon emission for (n,n*c)



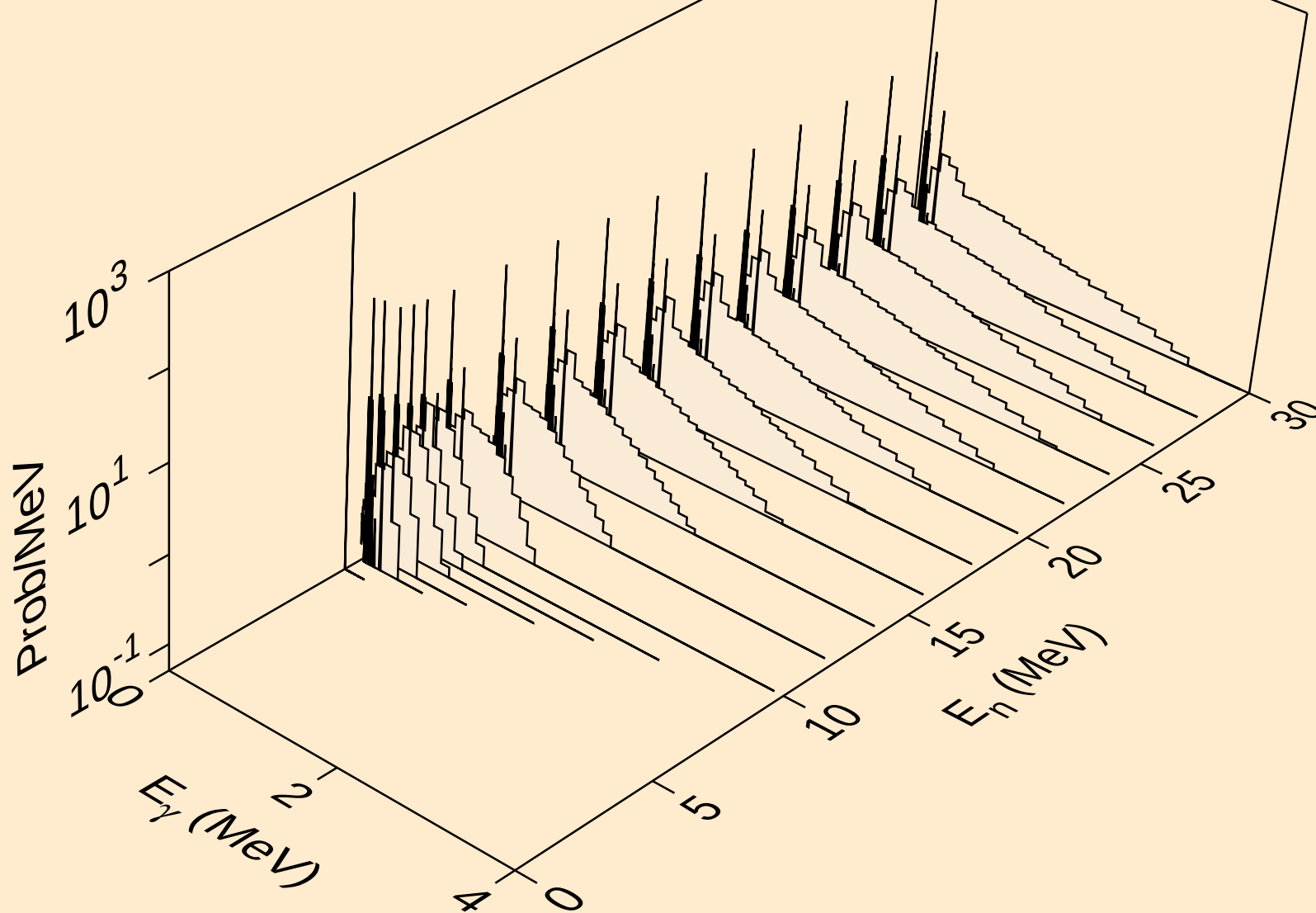
CE139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,gma)



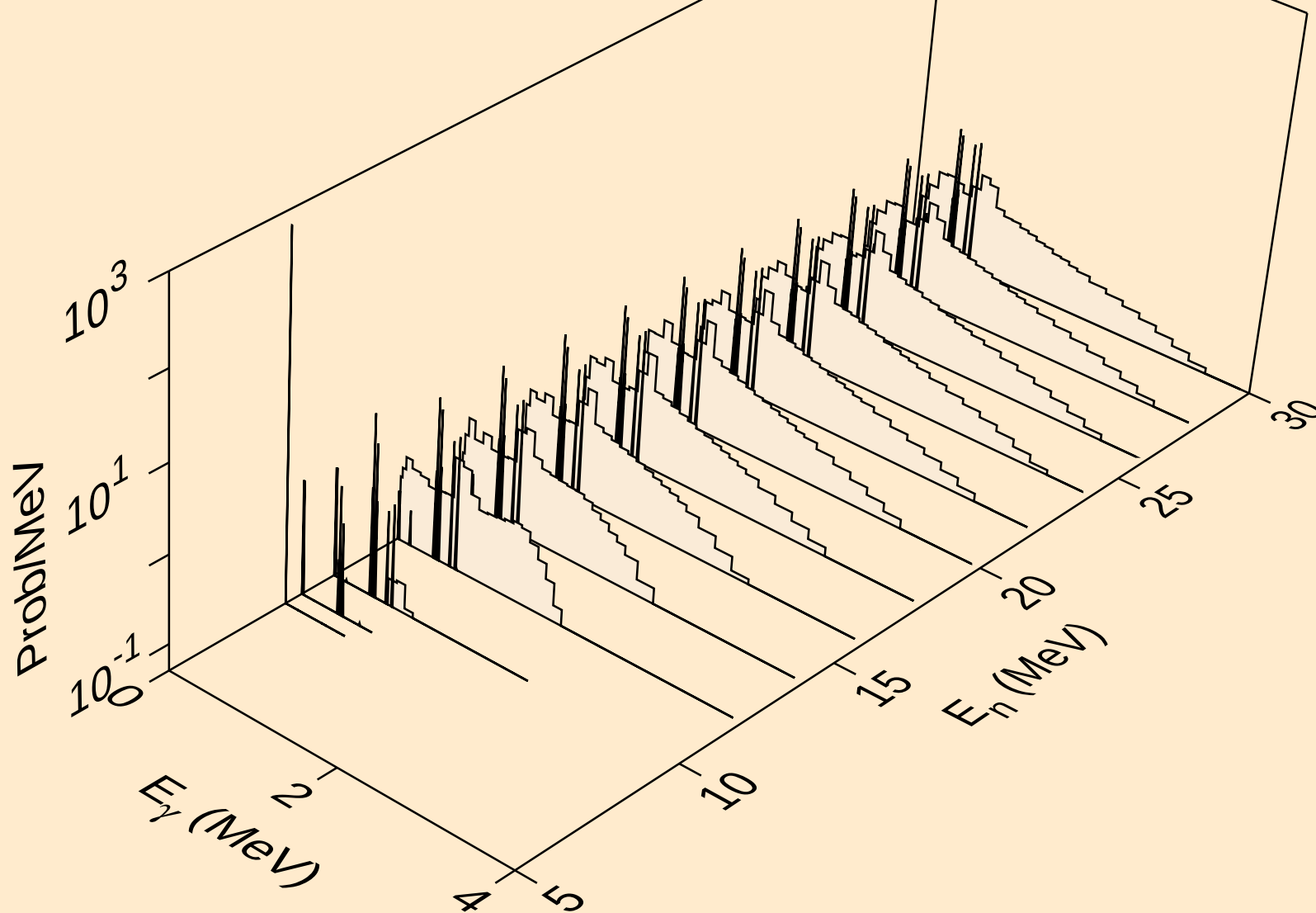
CE139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,p)



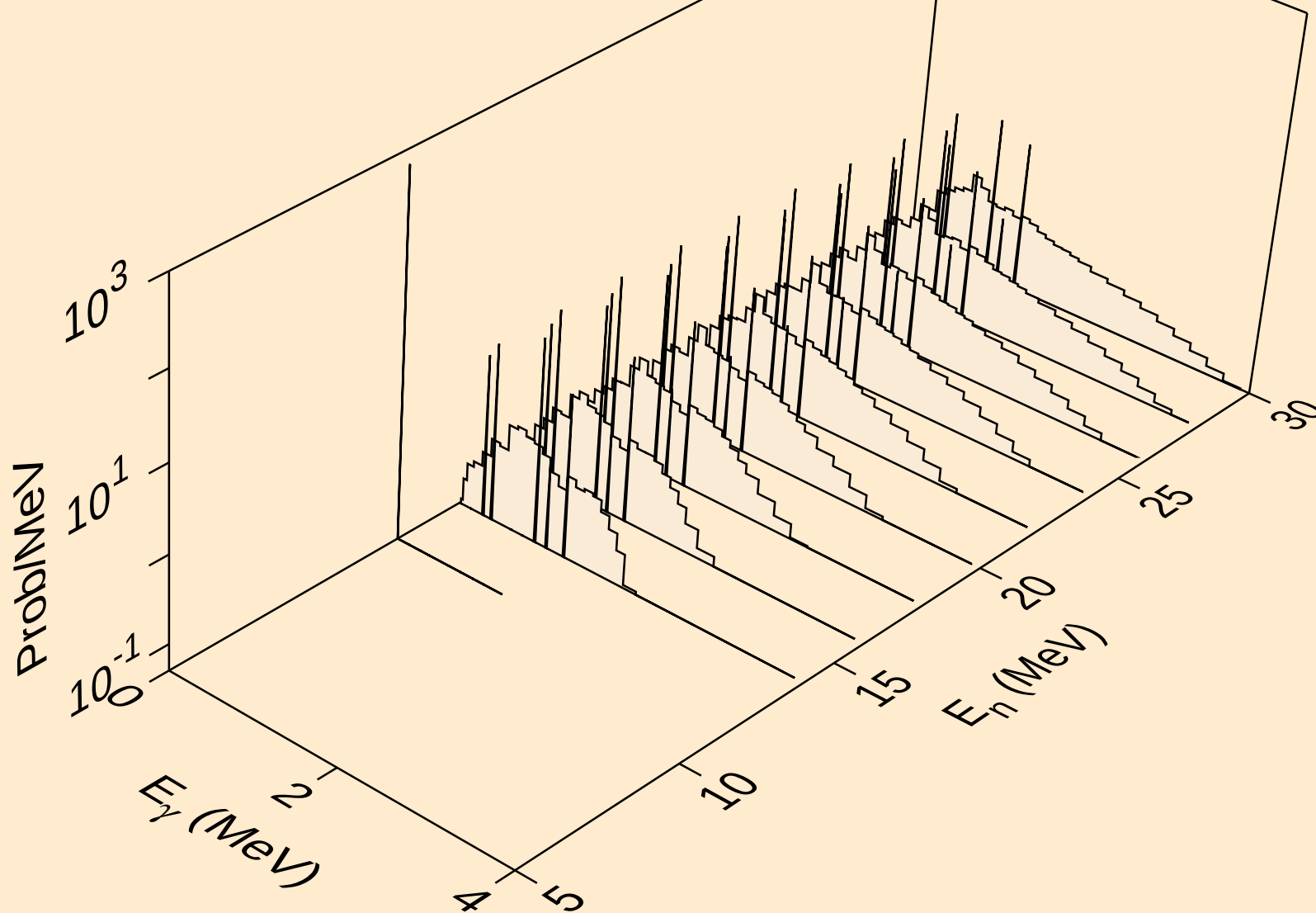
CE139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,d)



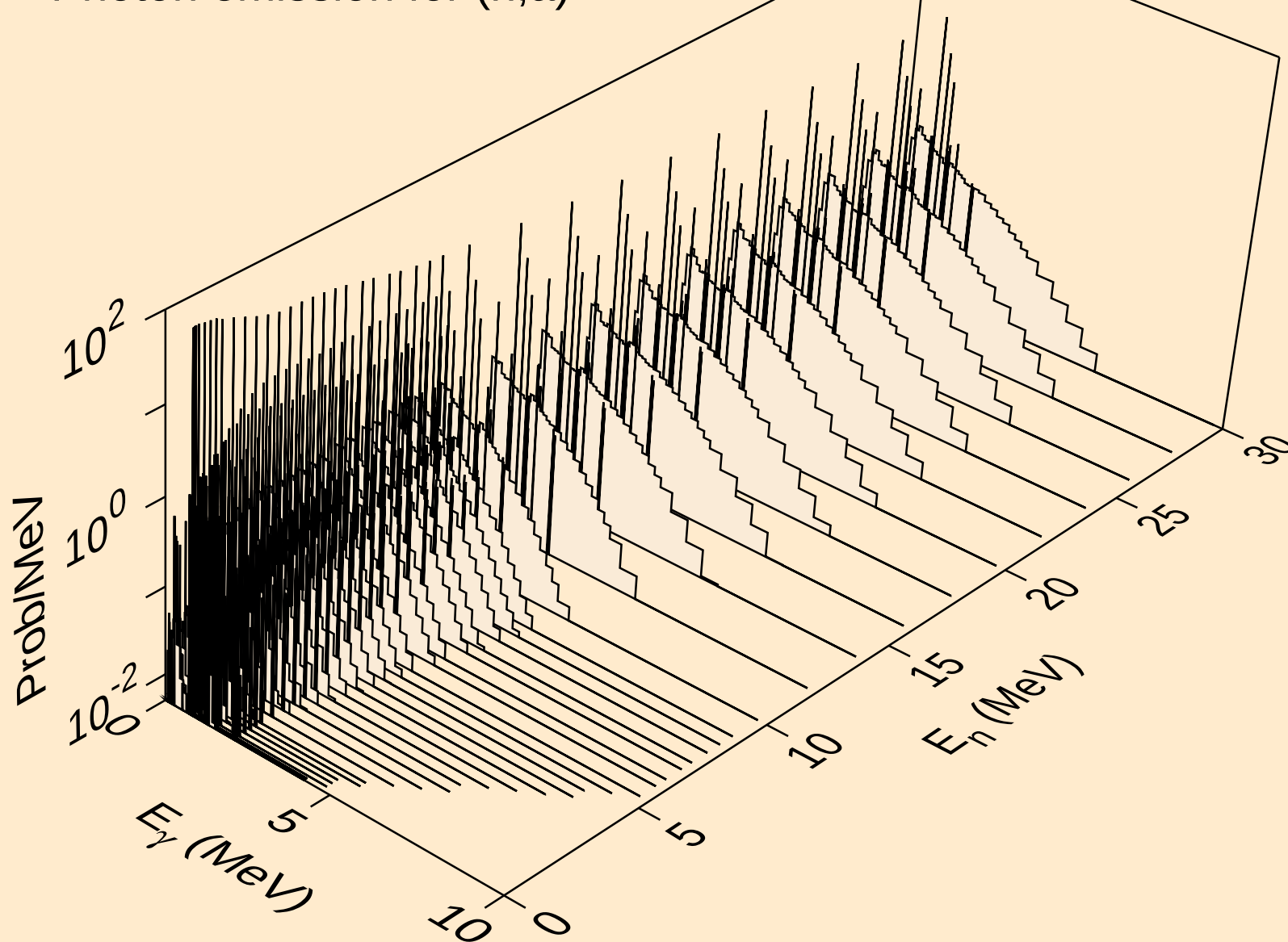
CE139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,t)



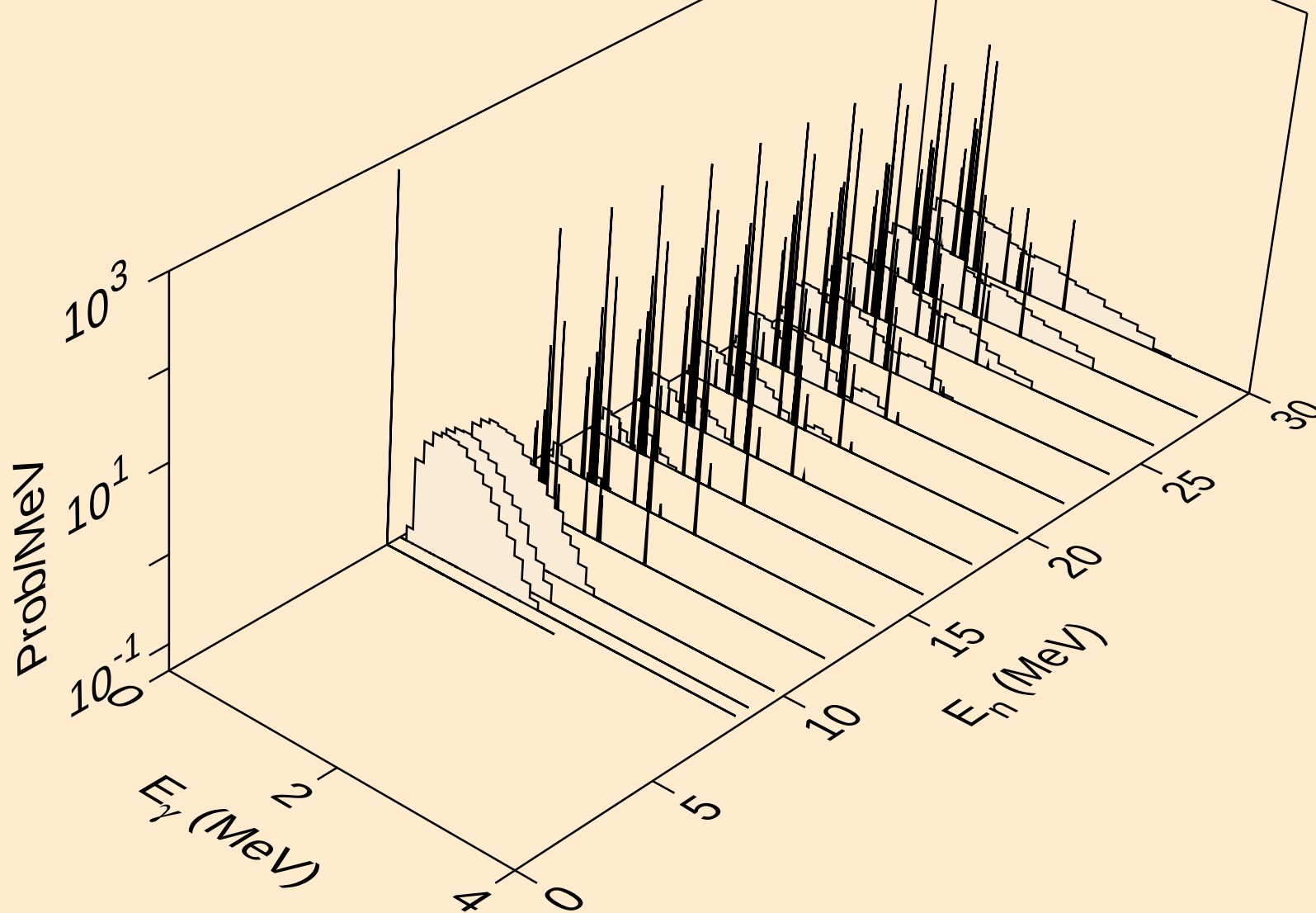
CE139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,he3)



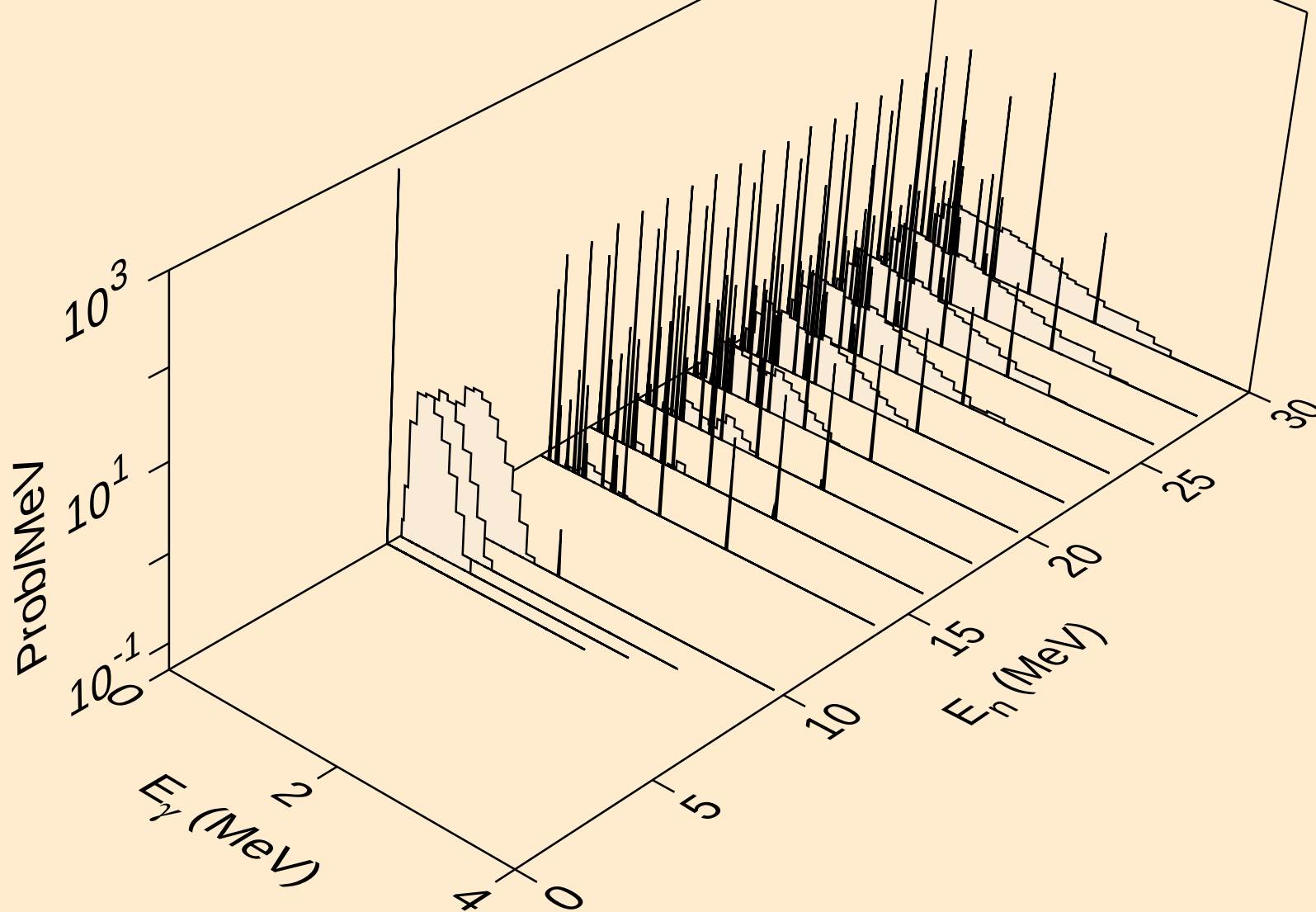
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Photon emission for (n,a)



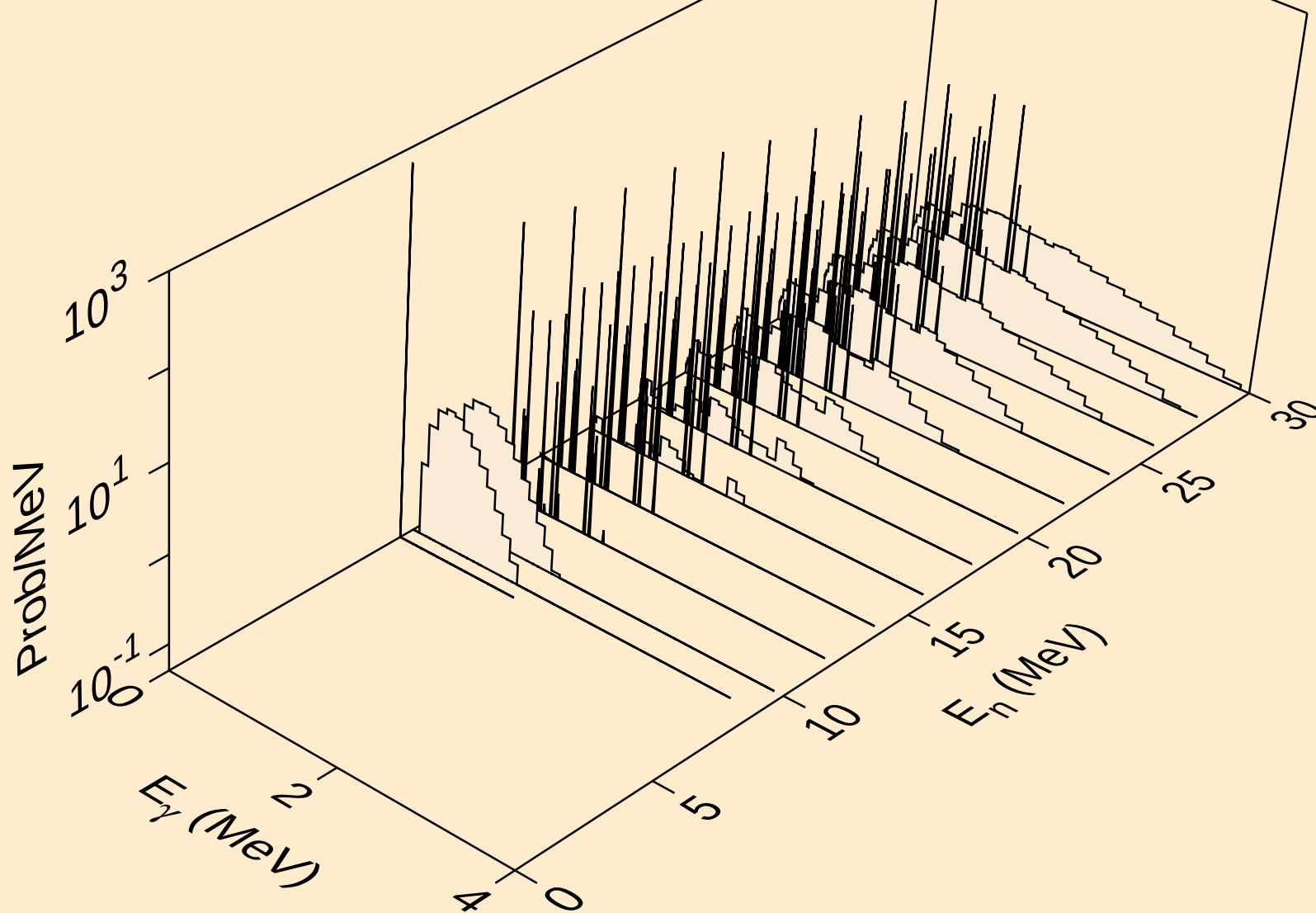
CE139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,2a)



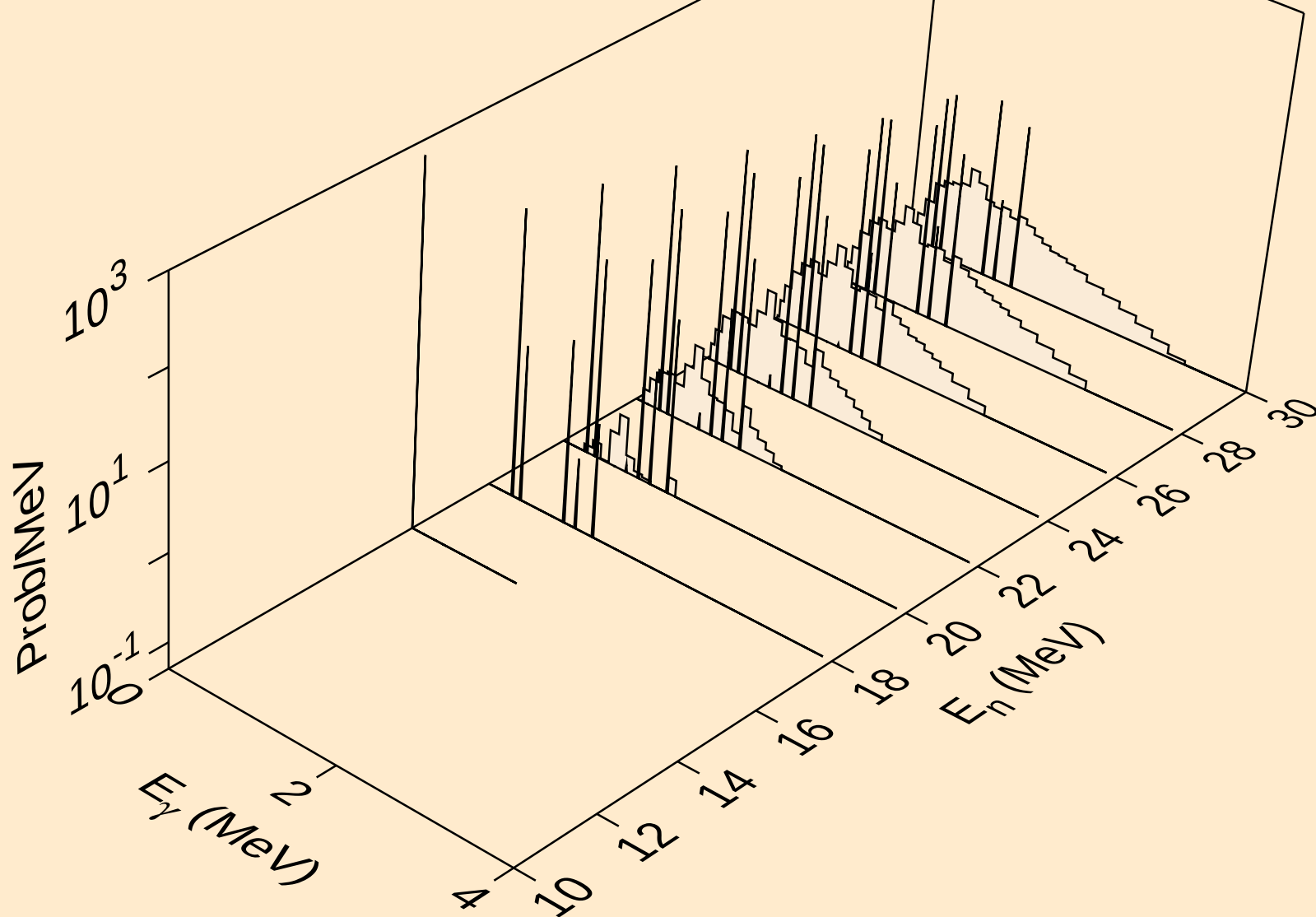
CE139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,2p)



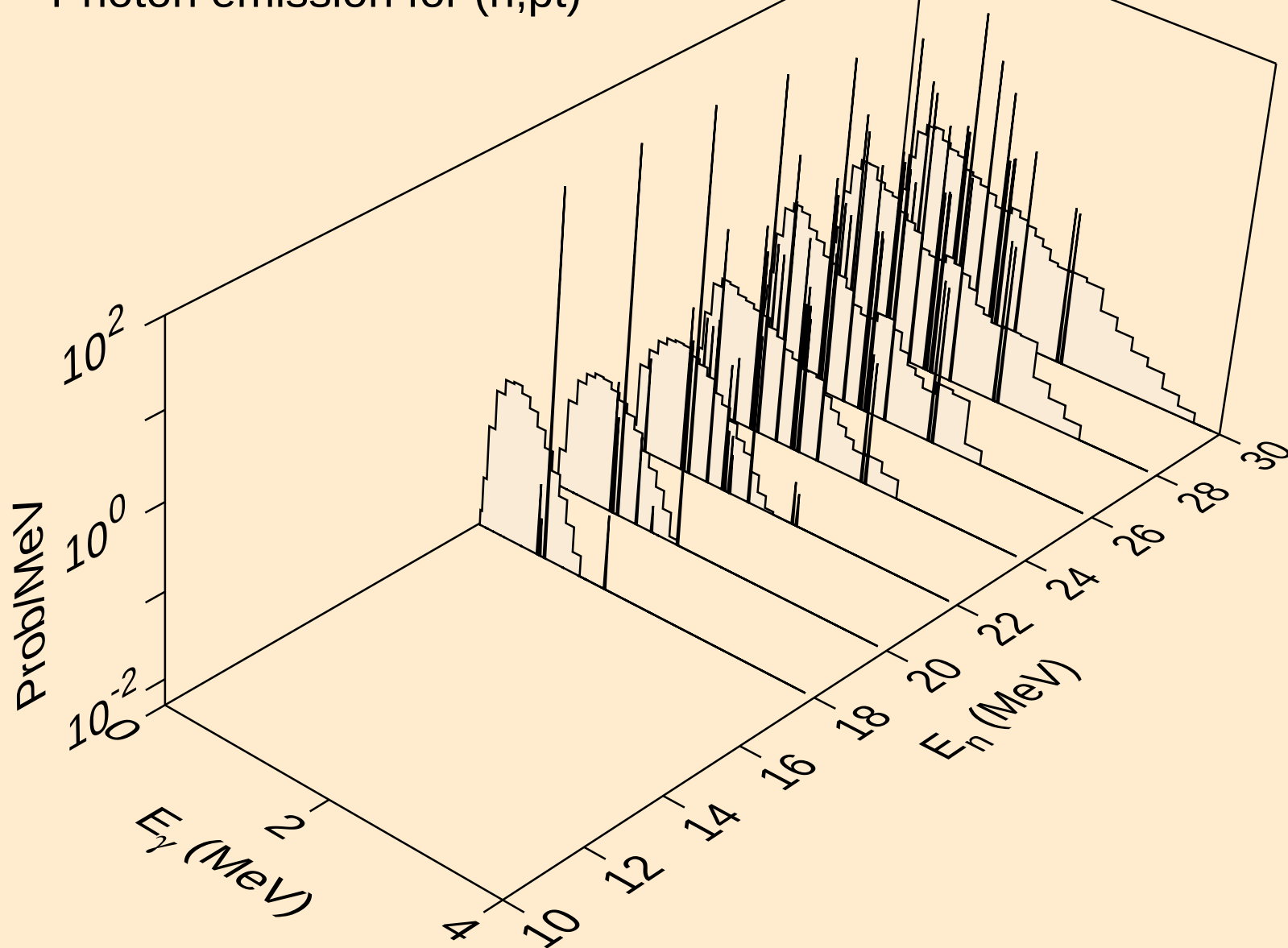
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Photon emission for (n,p α)



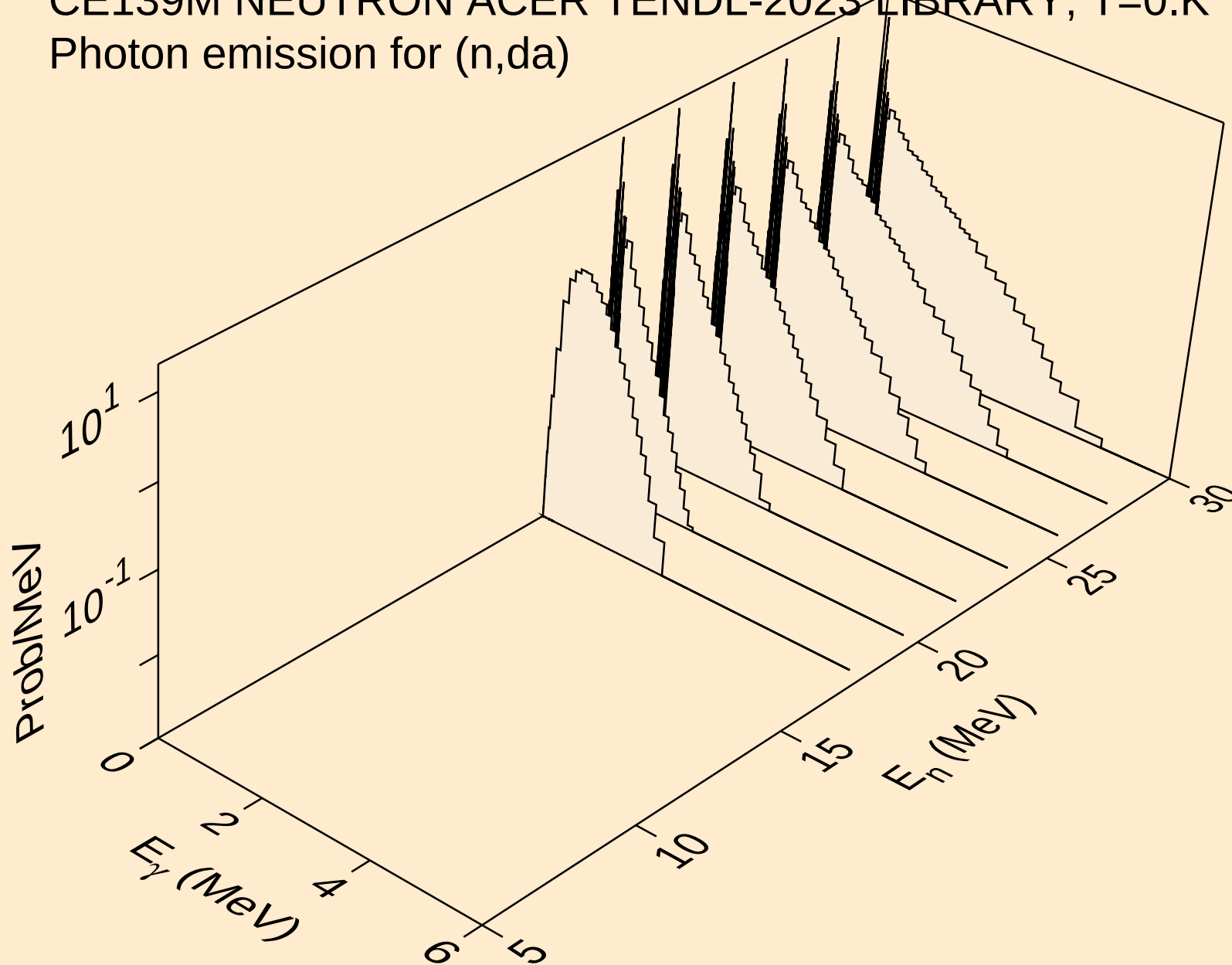
CE139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,pd)



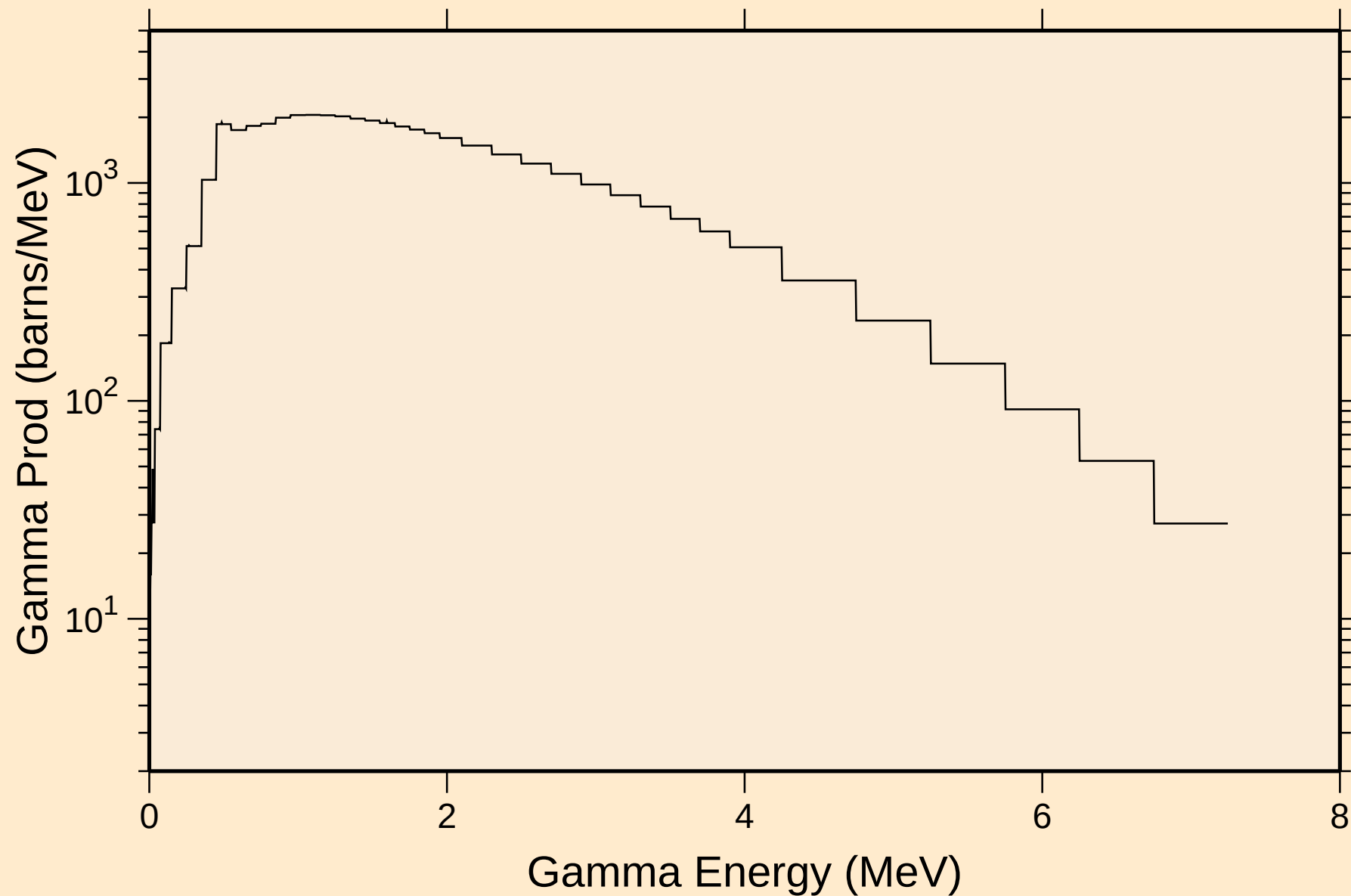
CE139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,pt)



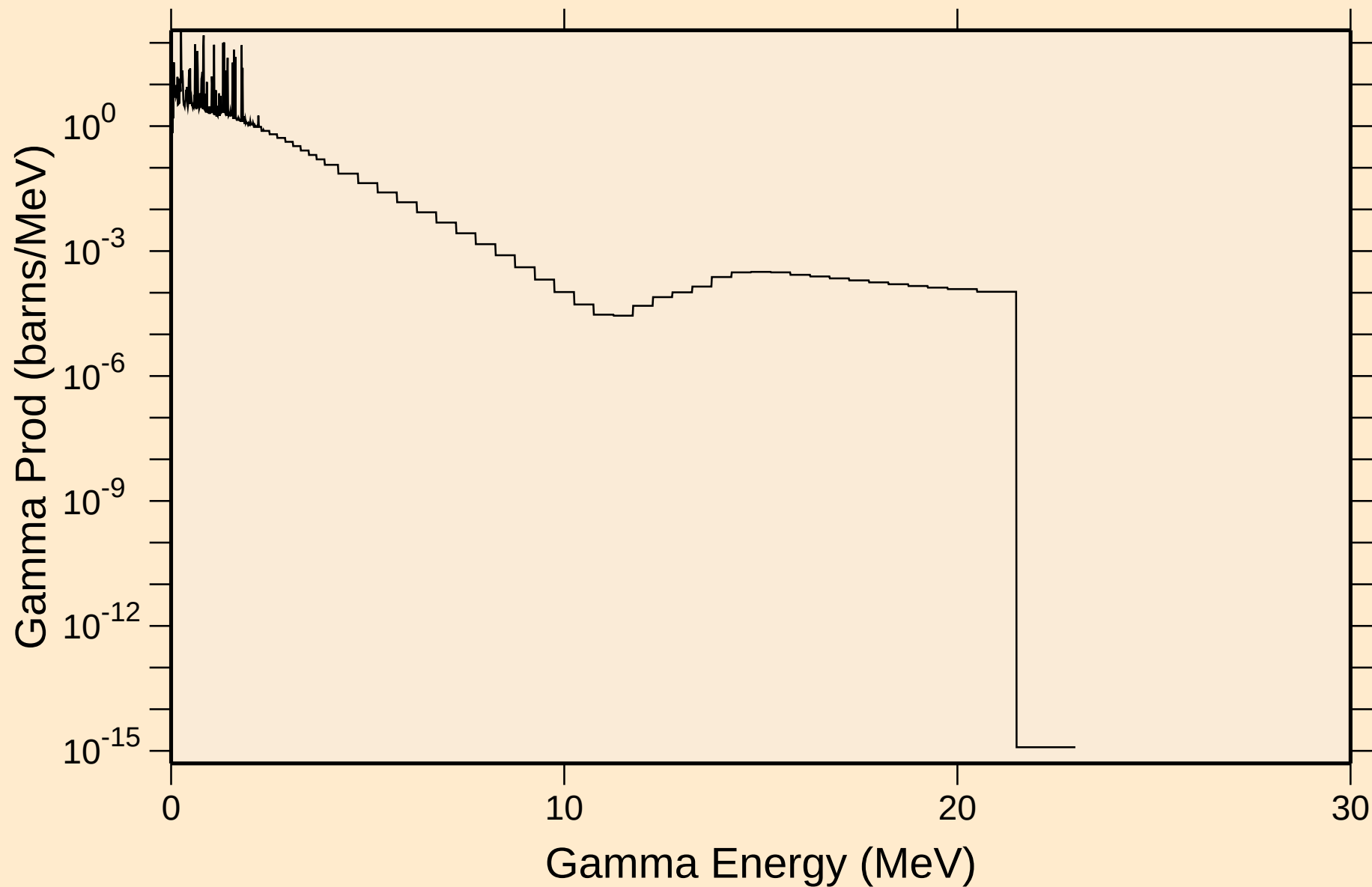
CE139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Photon emission for (n,da)



CE139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
thermal capture photon spectrum

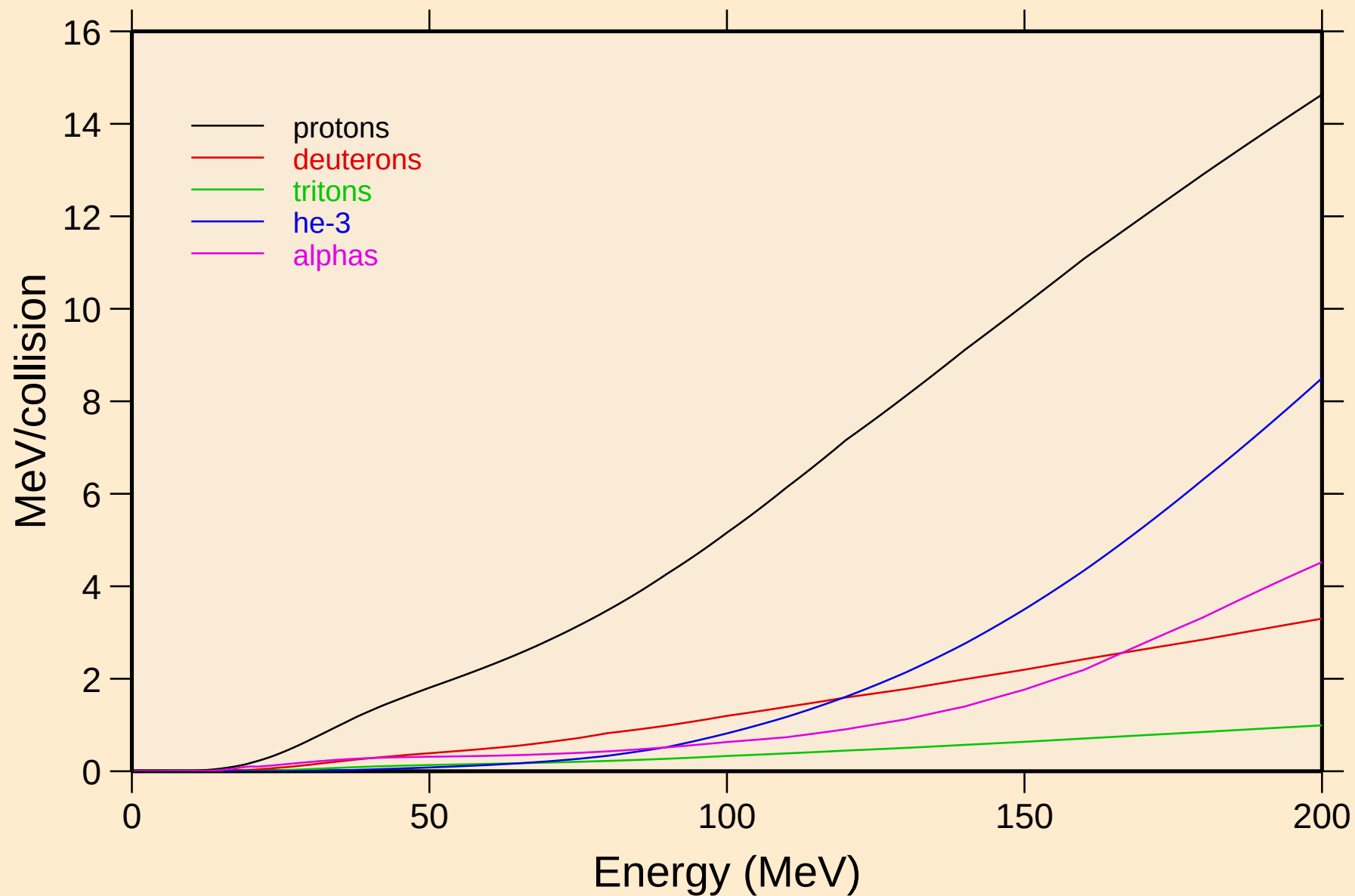


CE139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
14 MeV photon spectrum

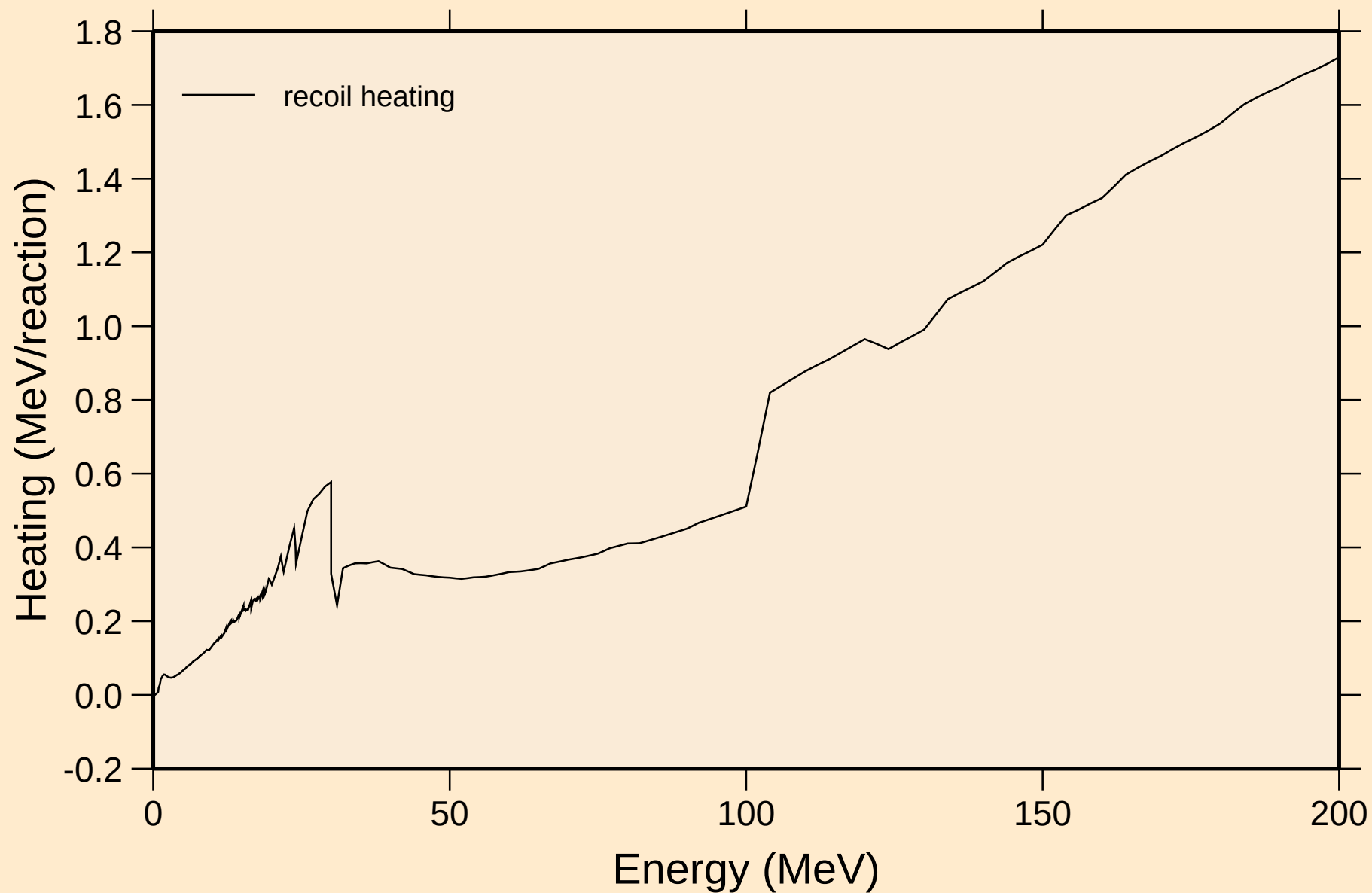


CE139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

Particle heating contributions

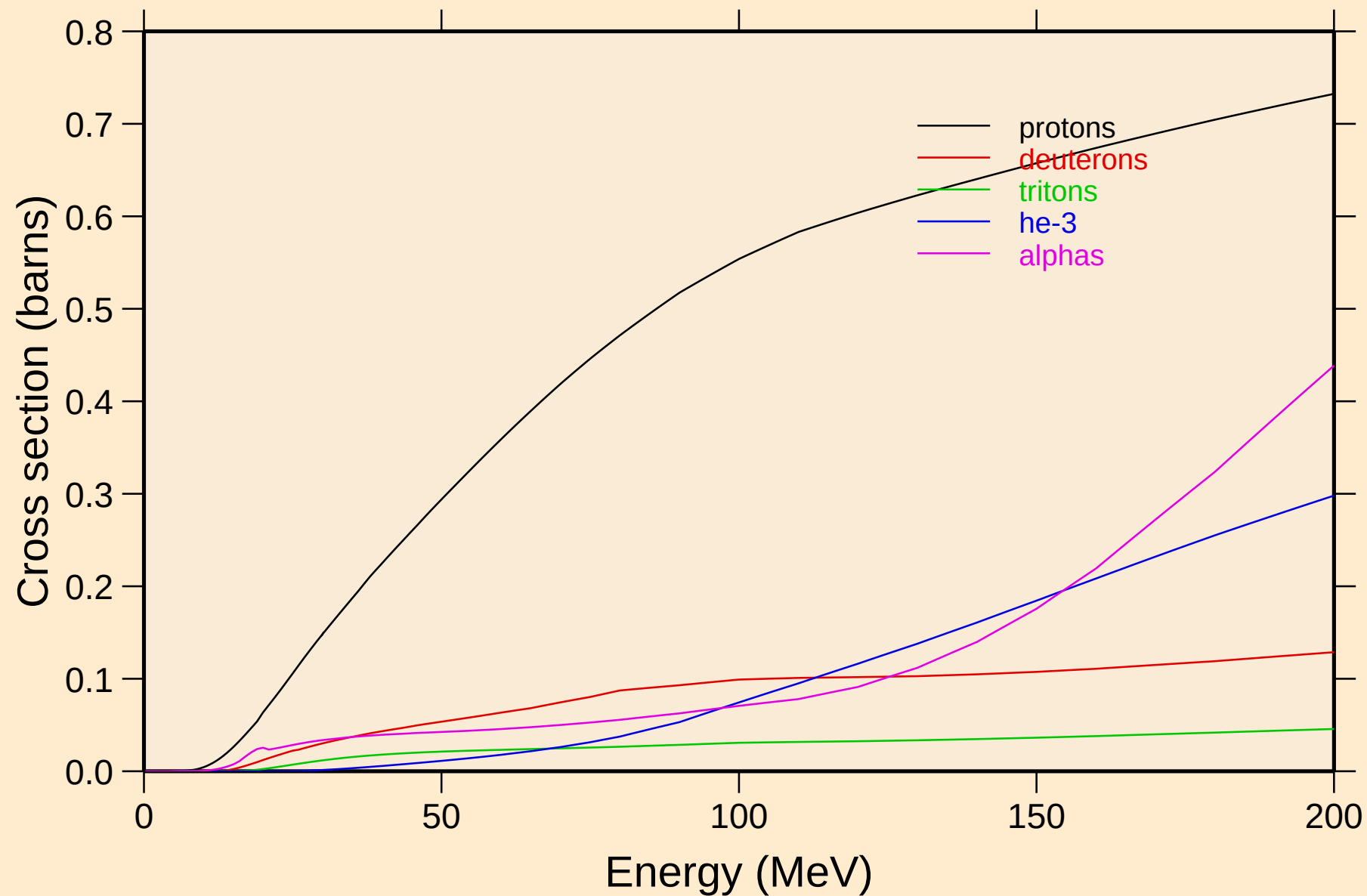


CE139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
Recoil Heating

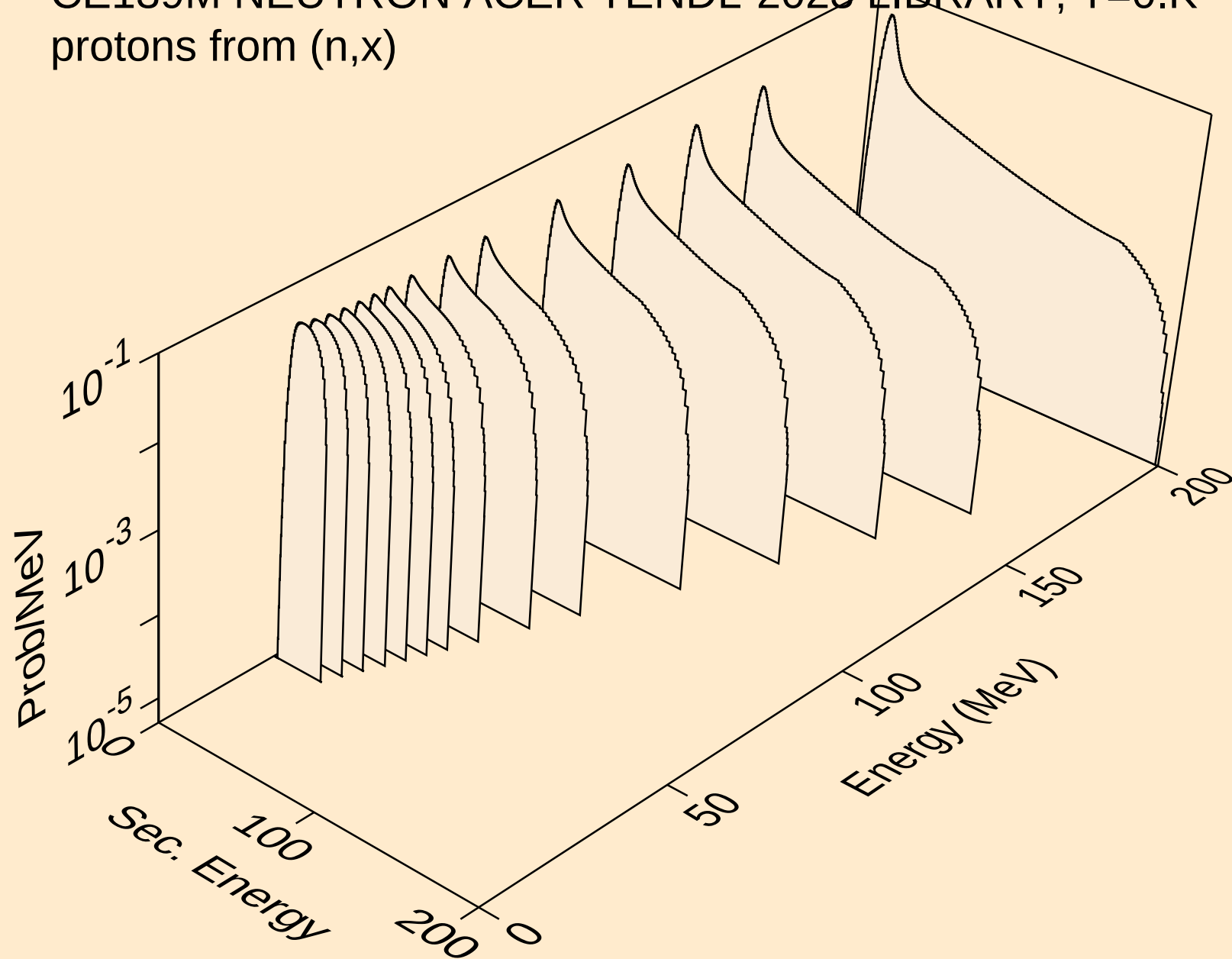


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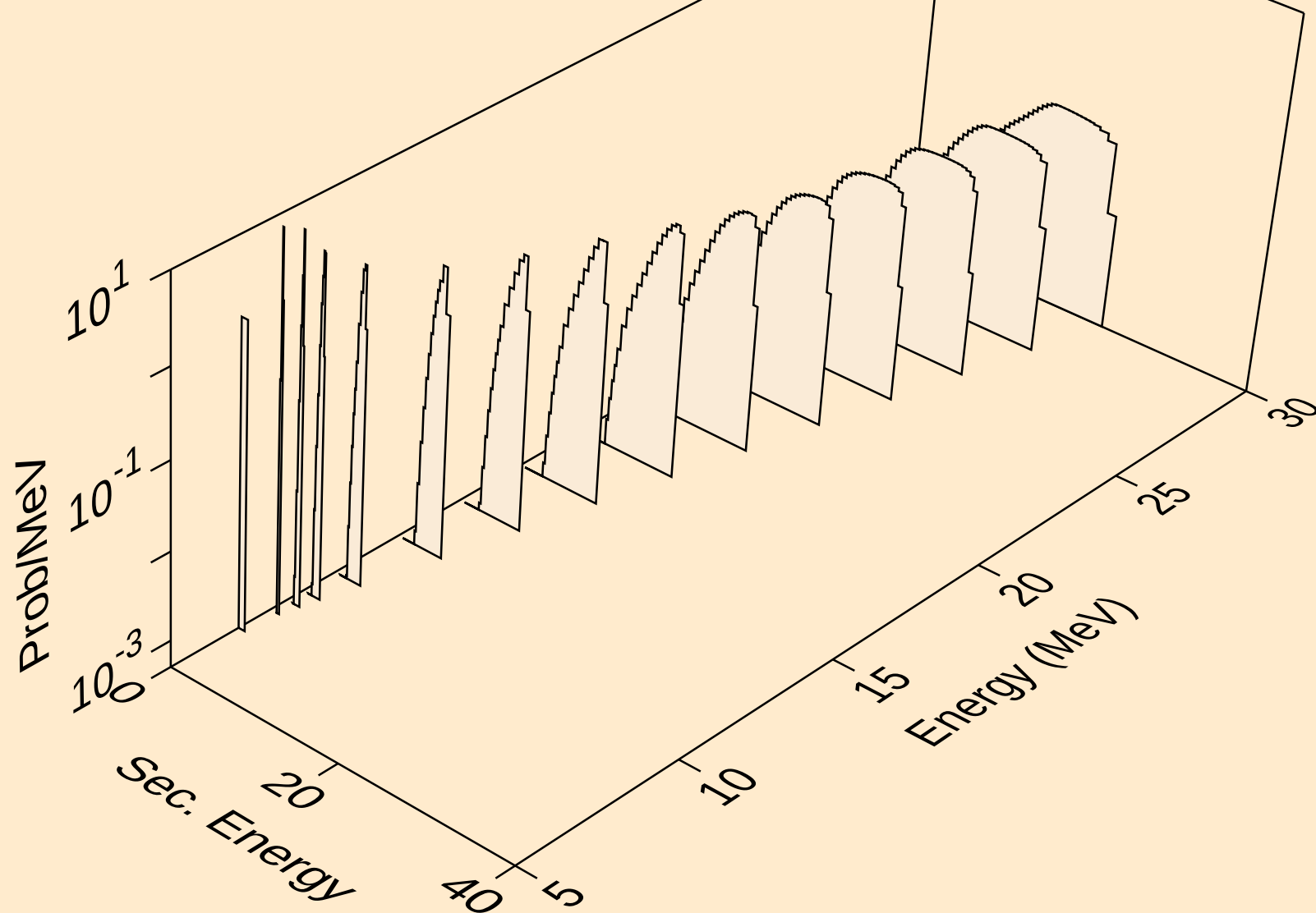
Particle production cross sections



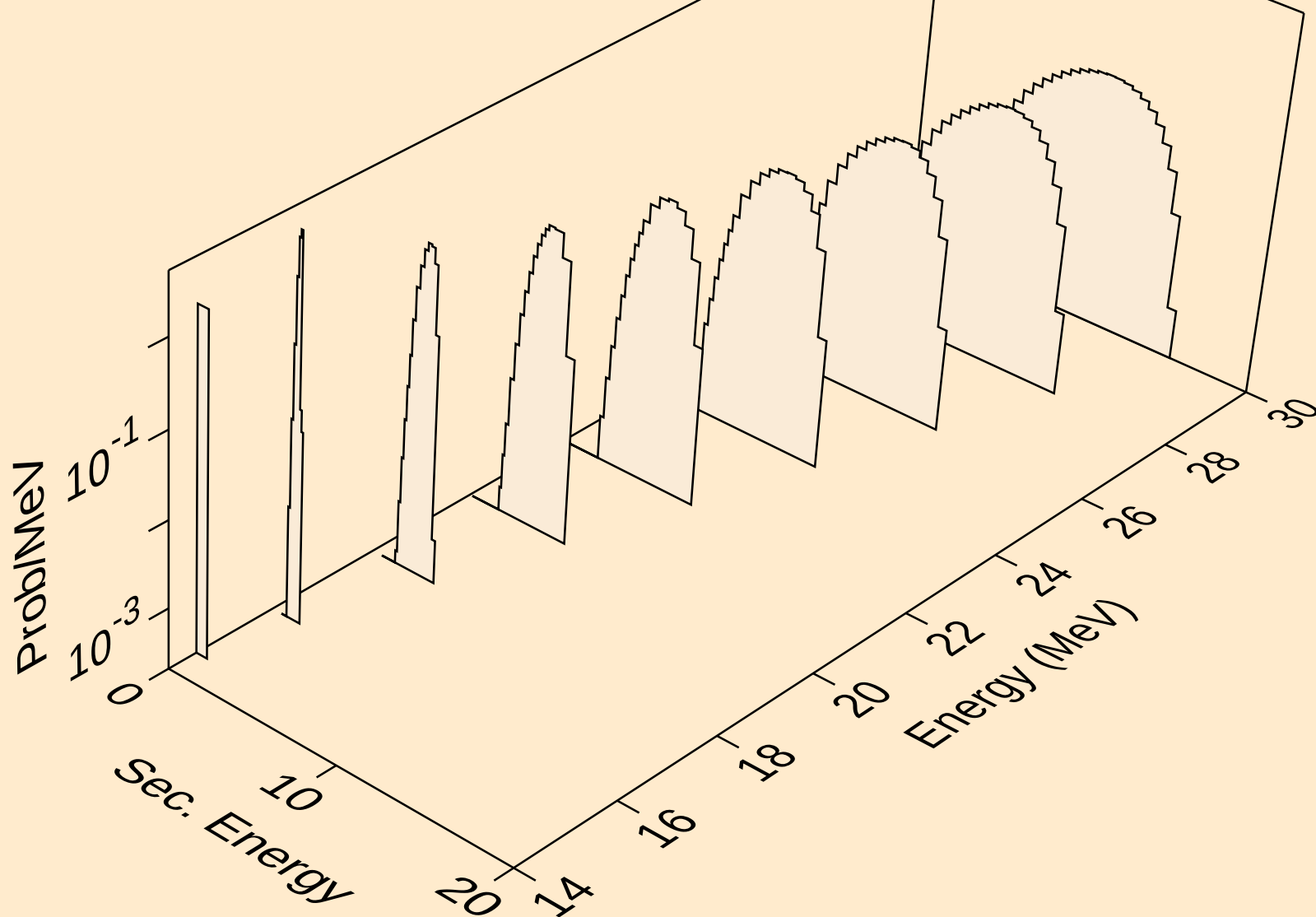
CE139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
protons from (n,x)



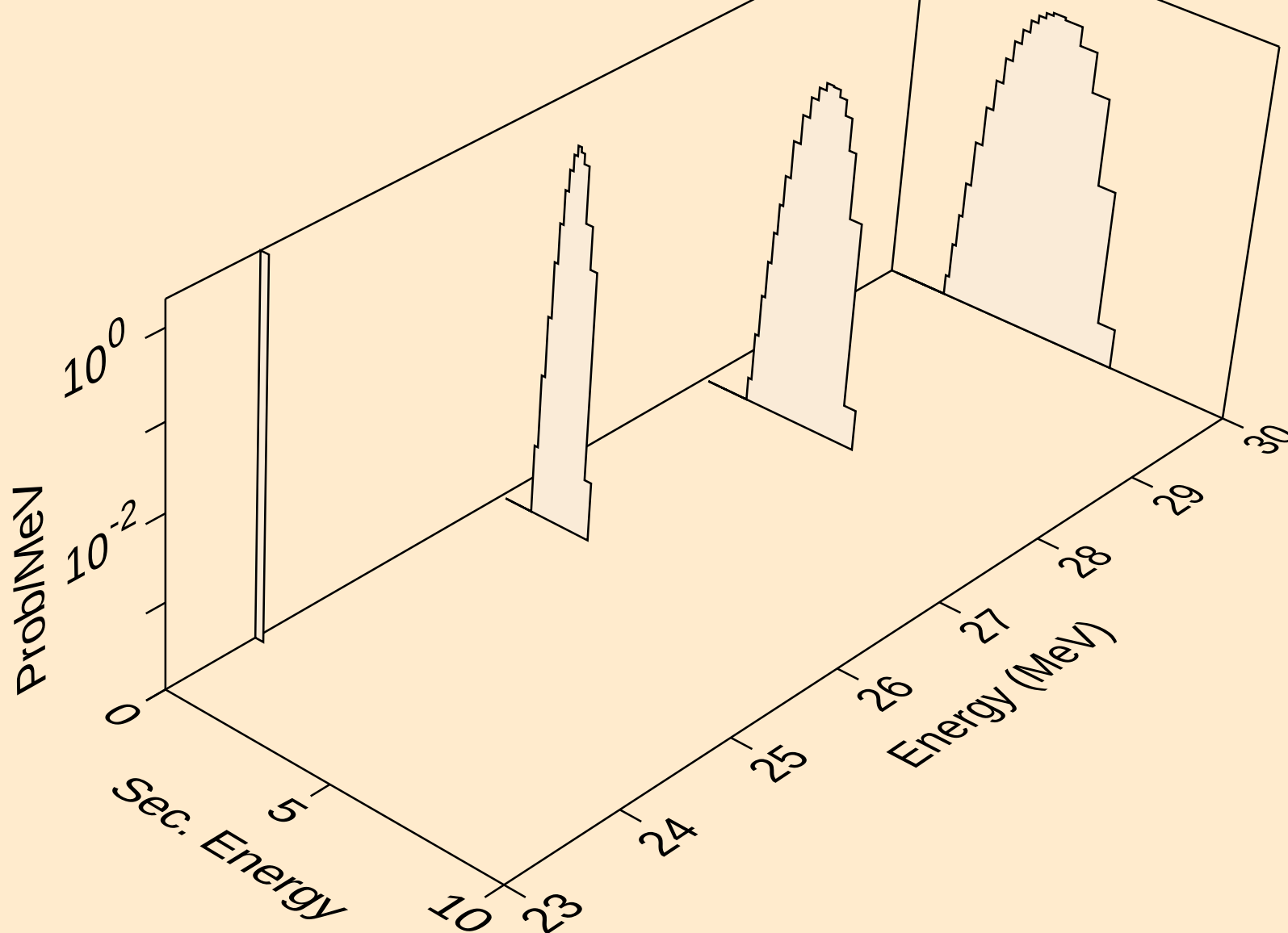
CE139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
protons from (n,n*)p



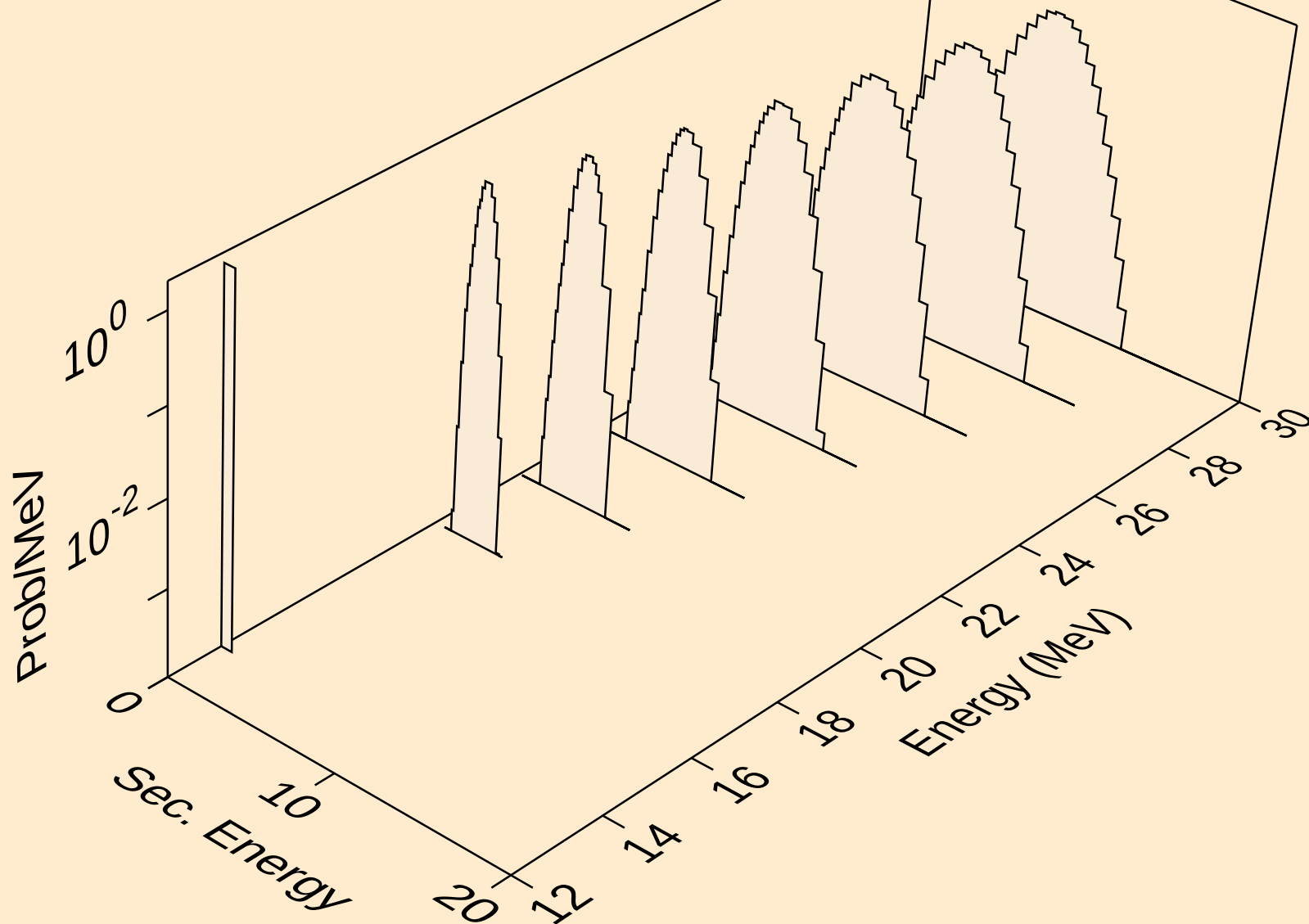
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protons from (n,2np)



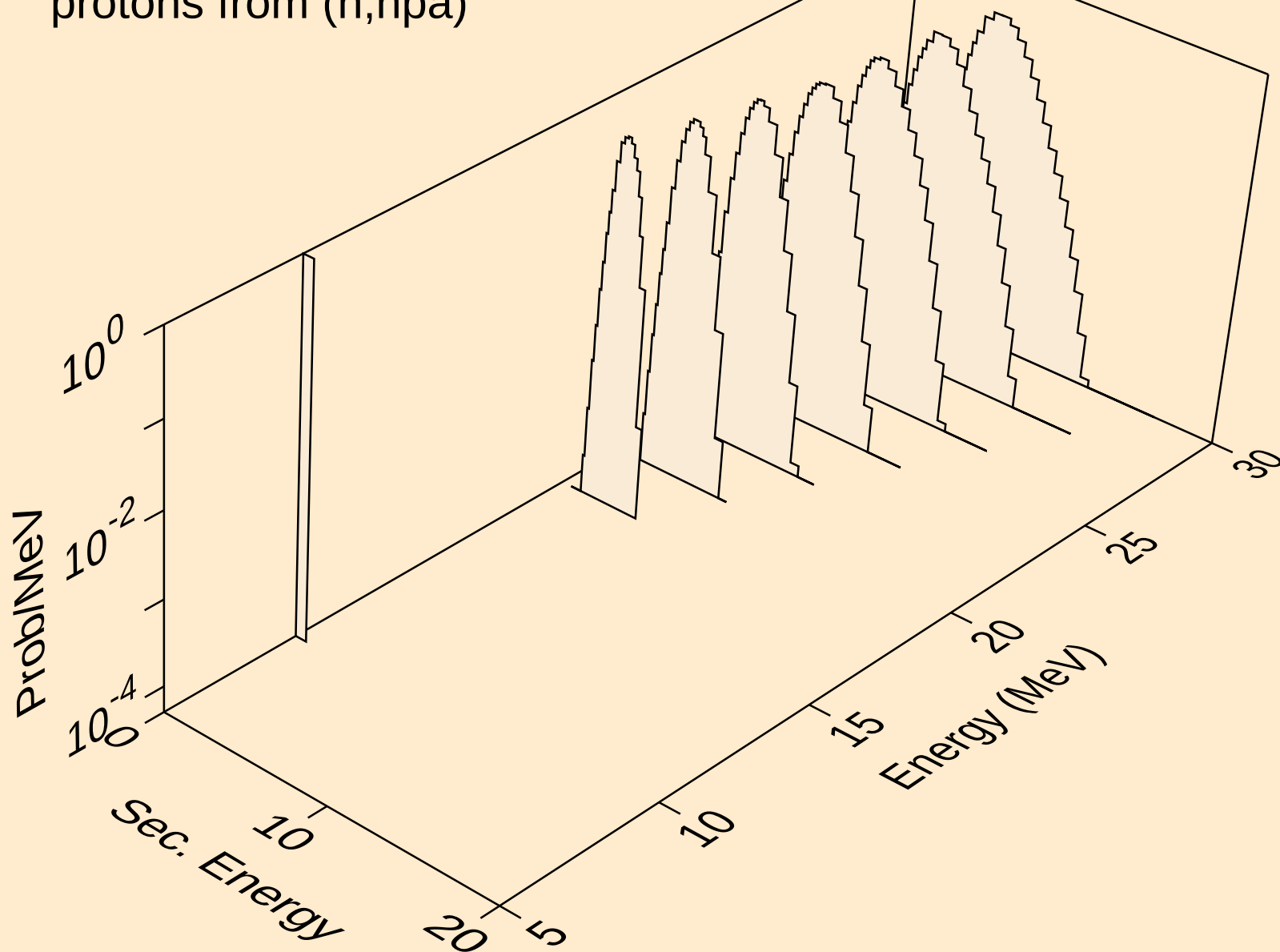
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protons from (n,3np)



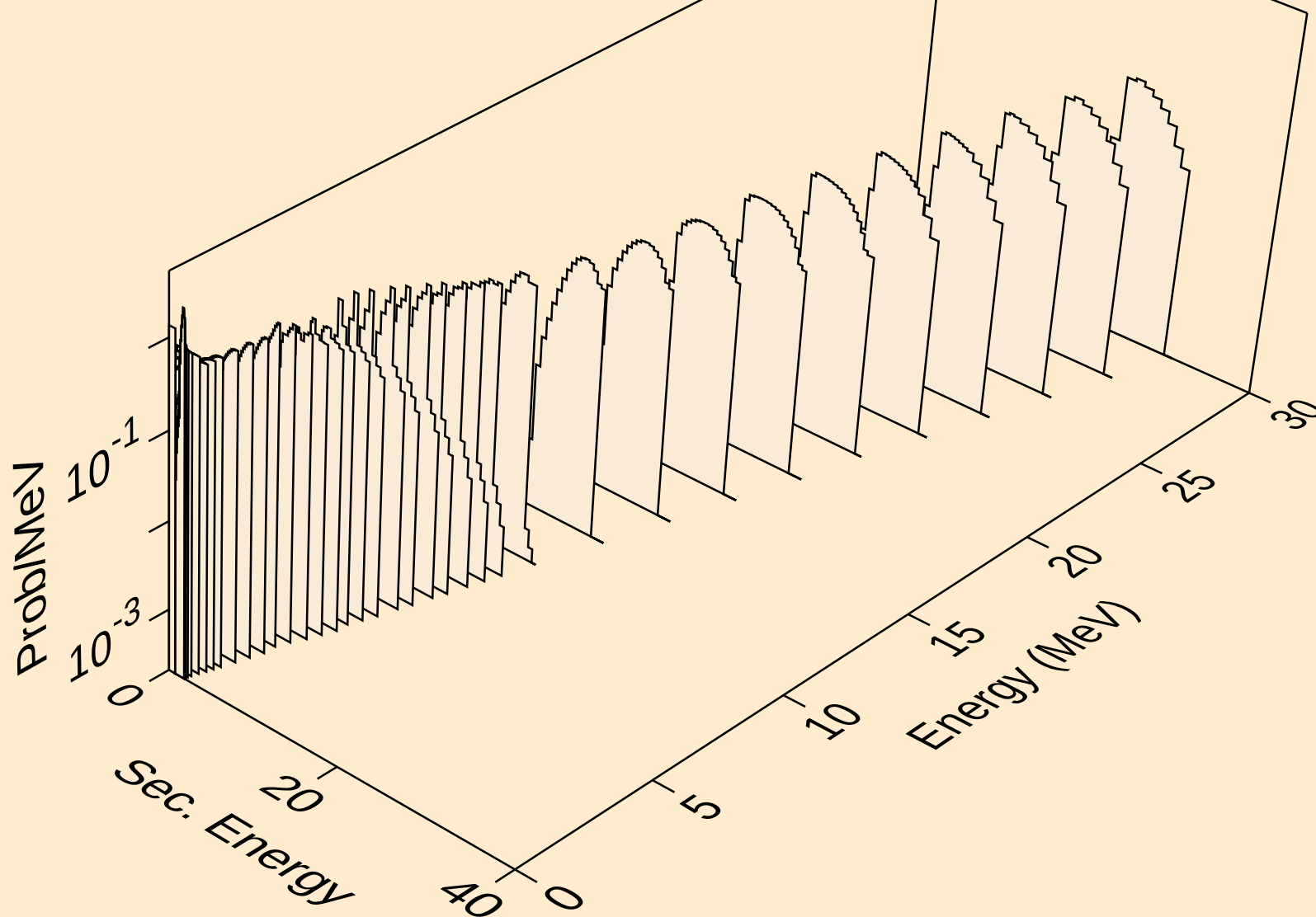
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protons from (n,n2p)



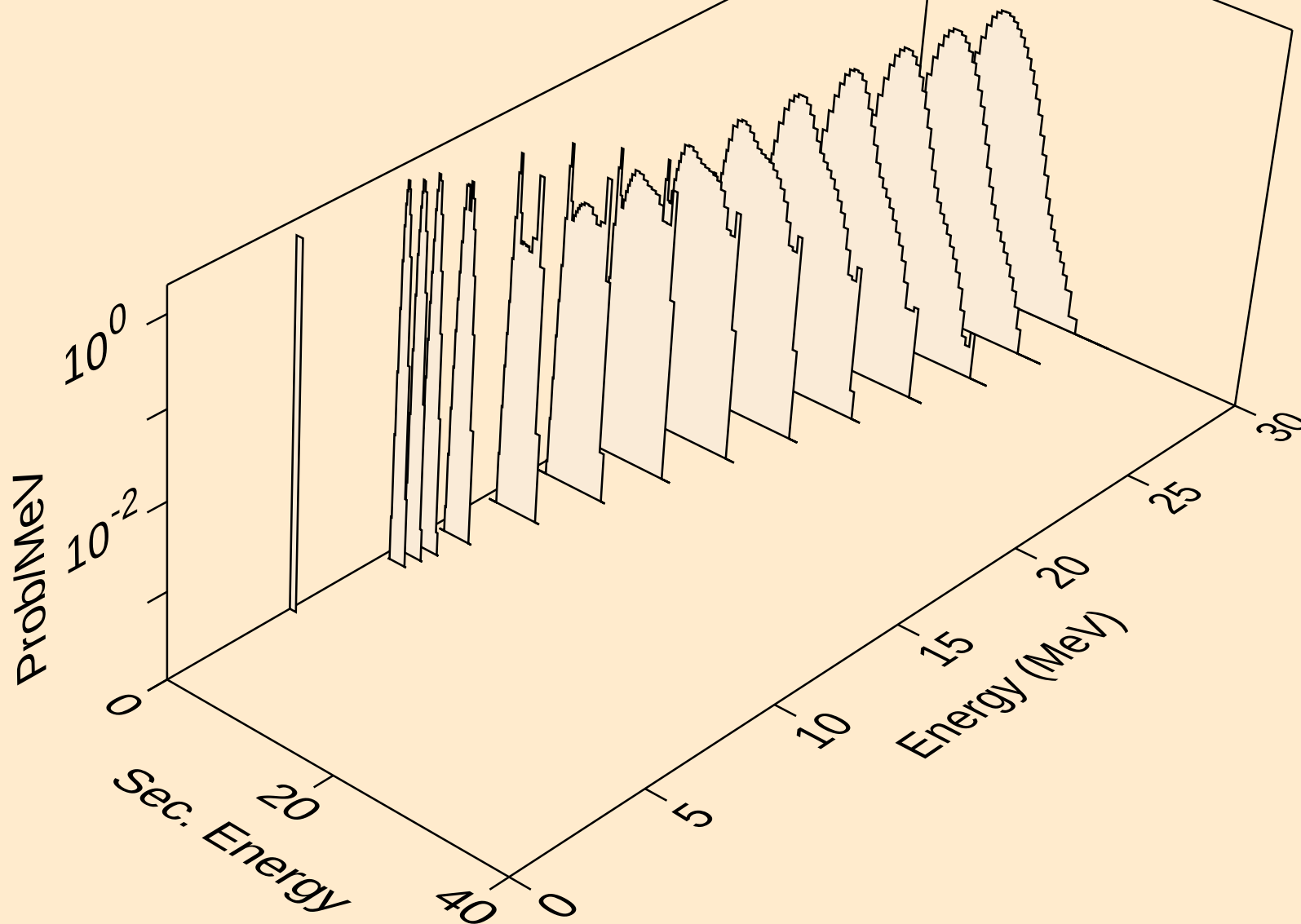
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protons from (n,npa)



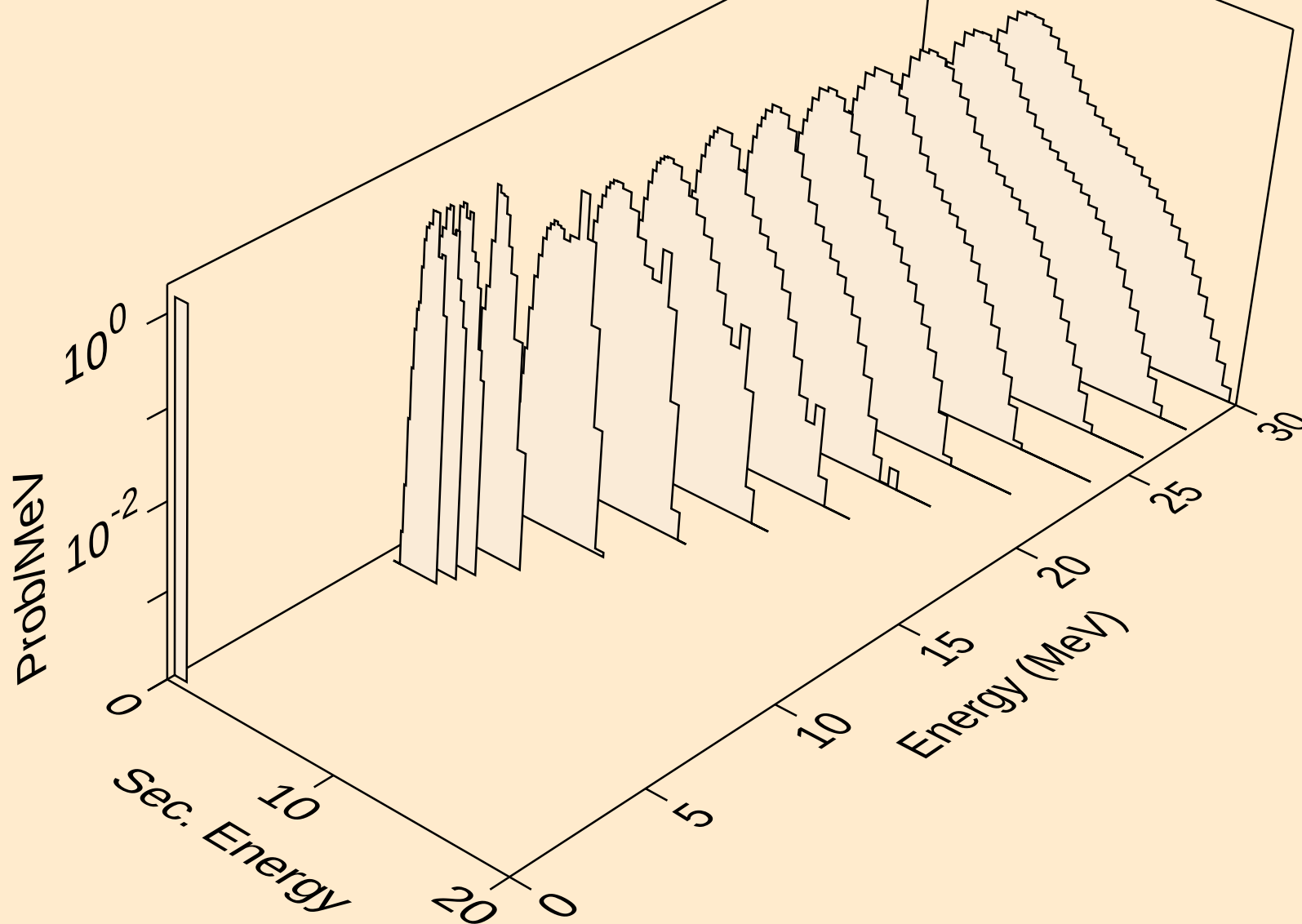
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protons from (n,p)



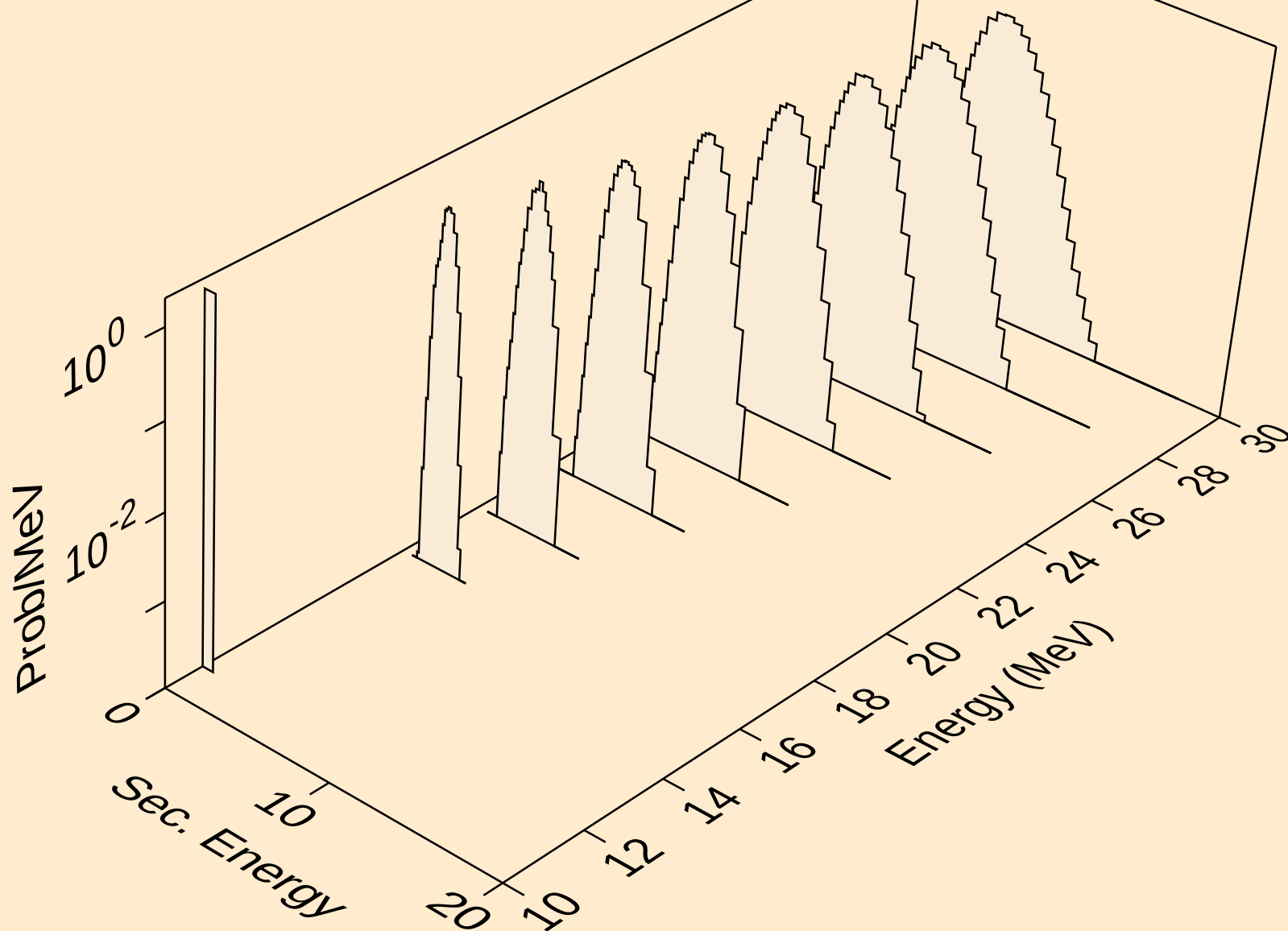
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protons from (n,2p)



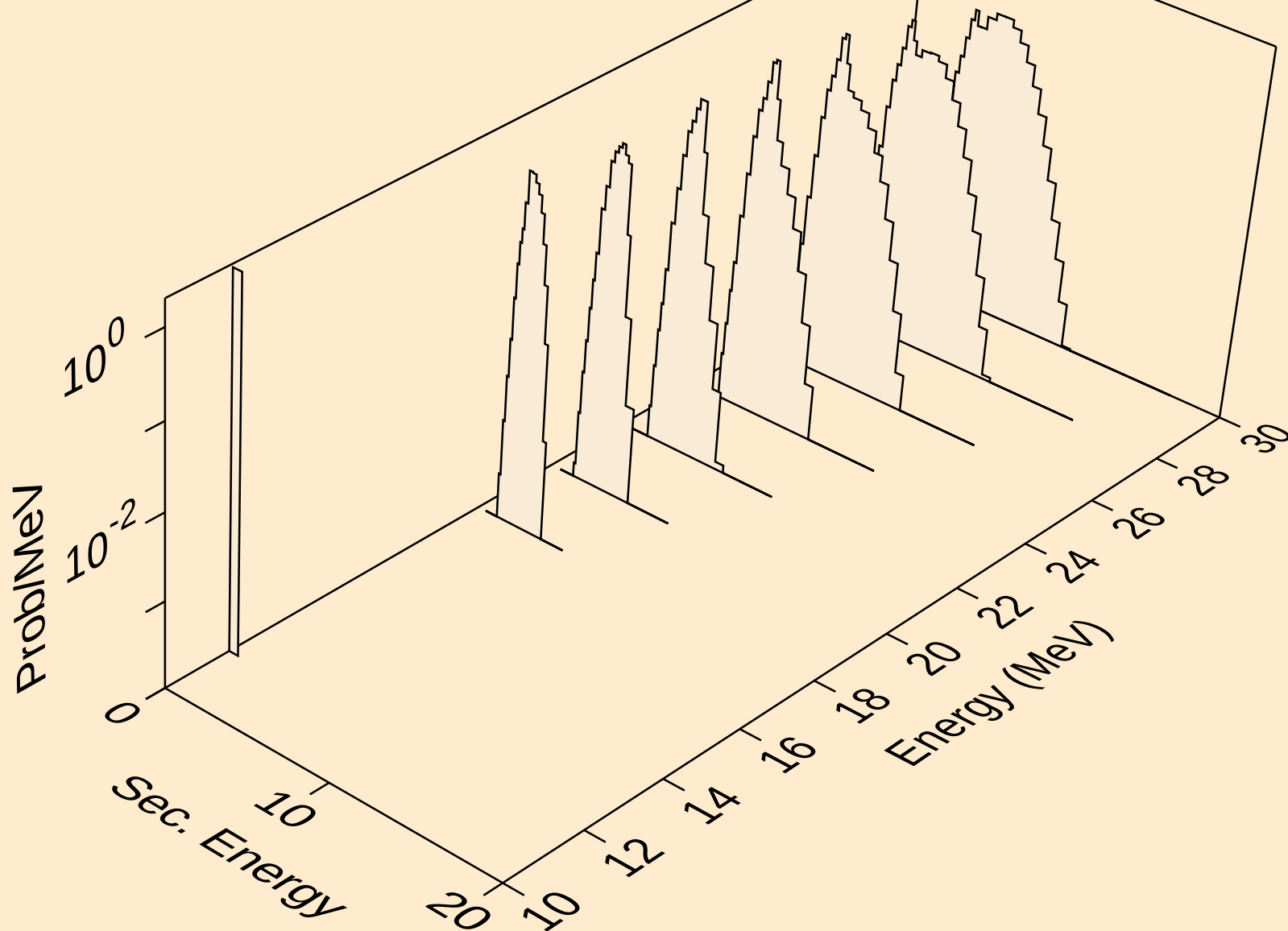
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protons from (n,p)



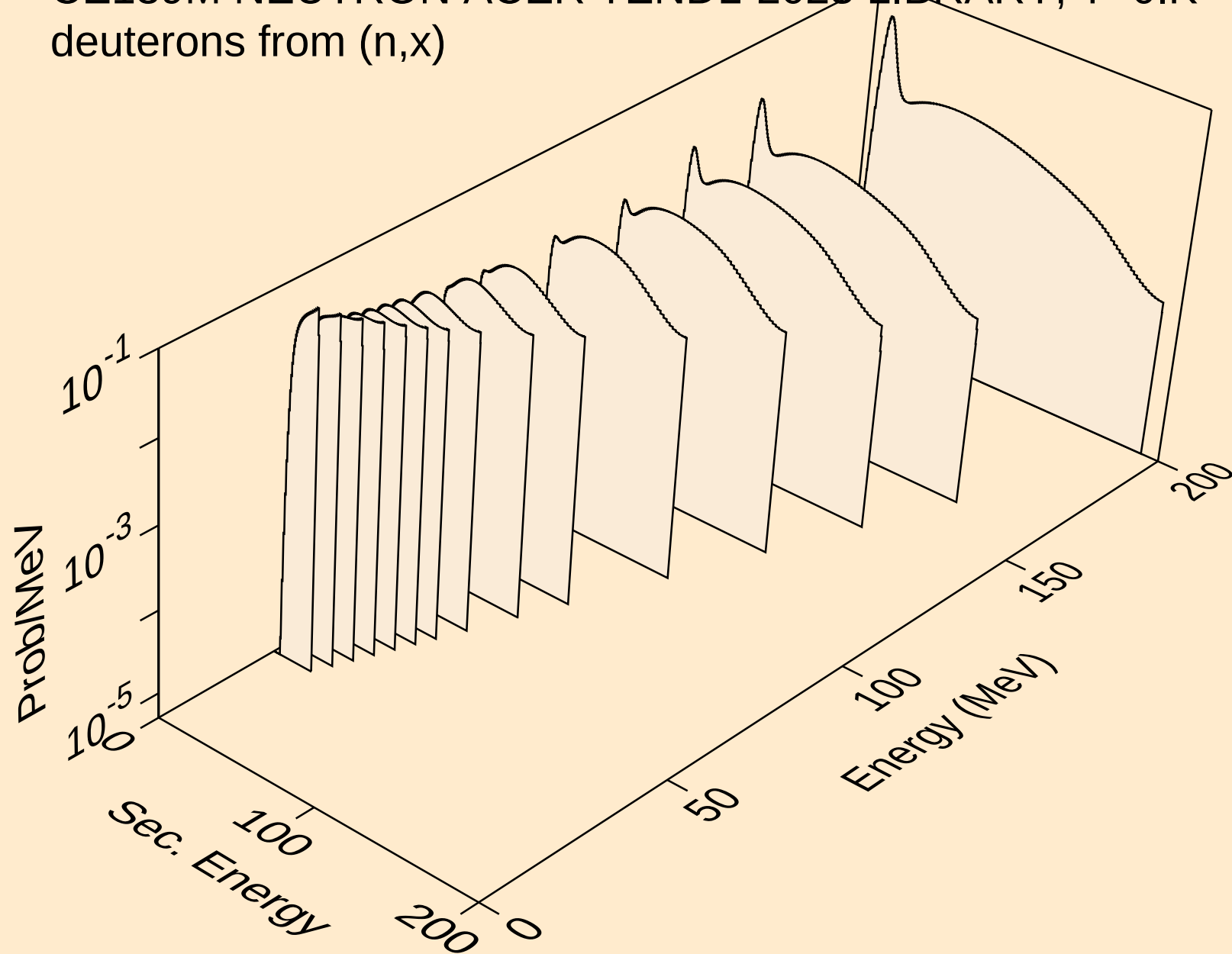
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protons from (n,pd)



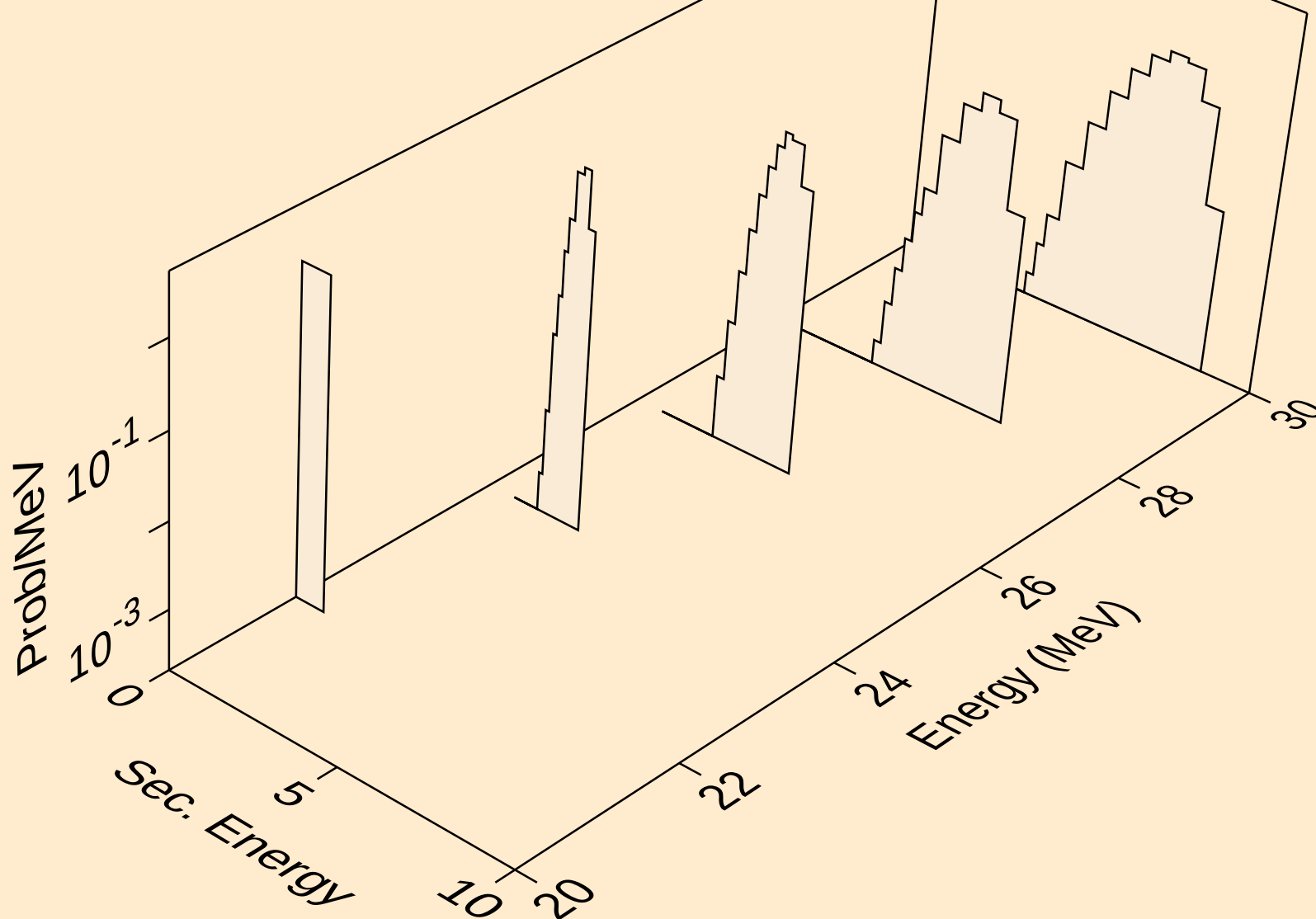
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protons from (n,pt)



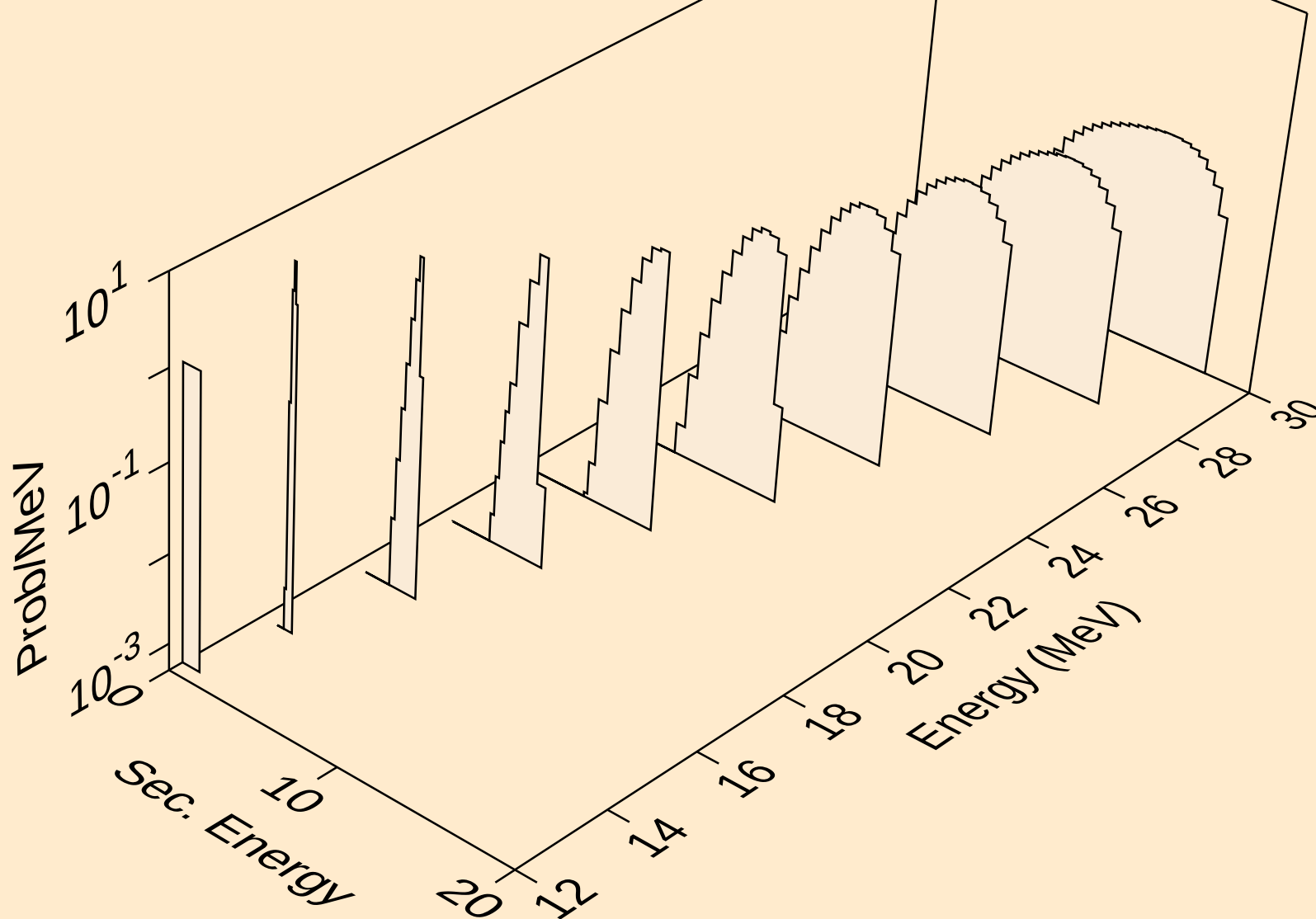
CE139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
deuterons from (n,x)



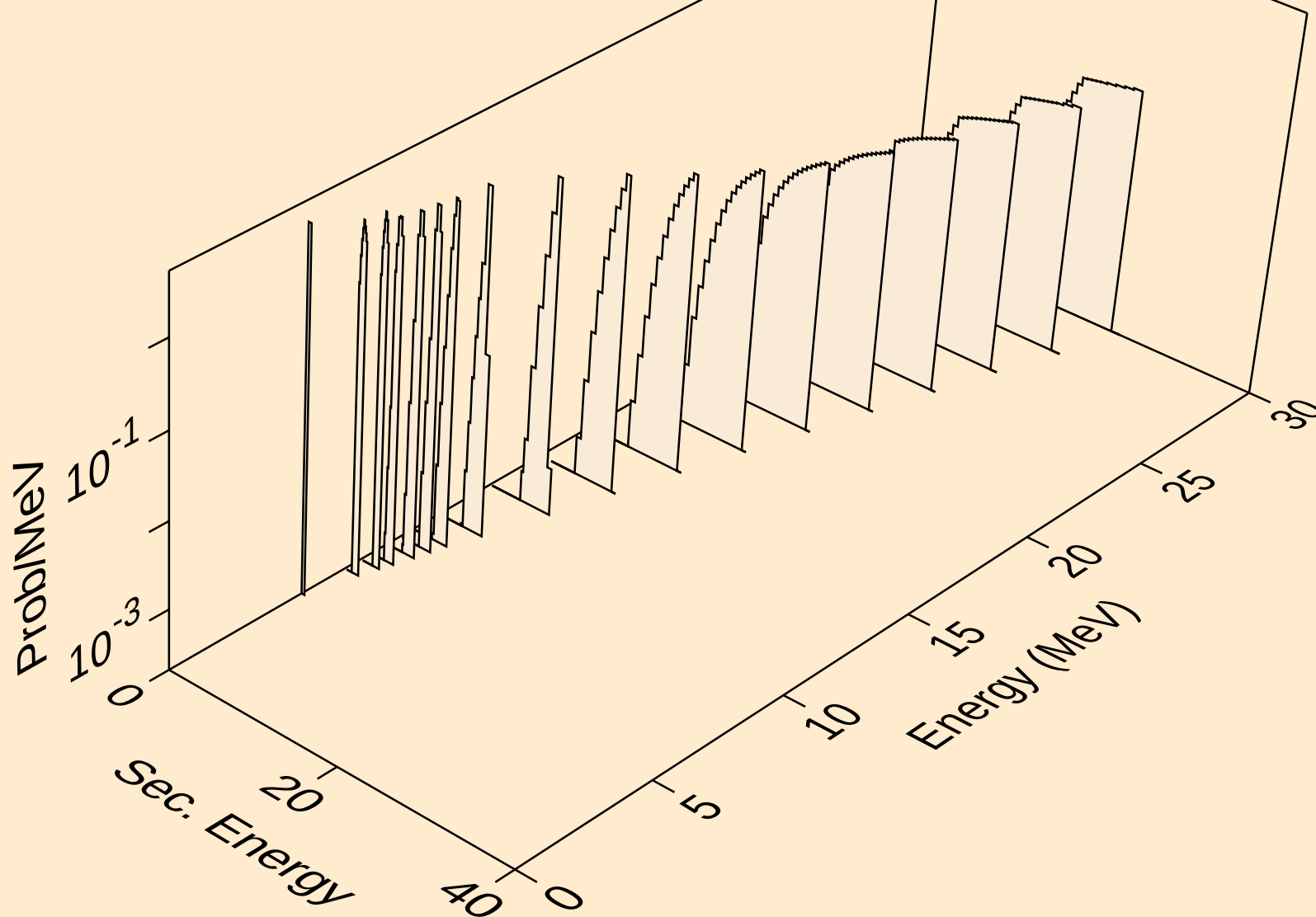
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deuterons from (n,2nd)



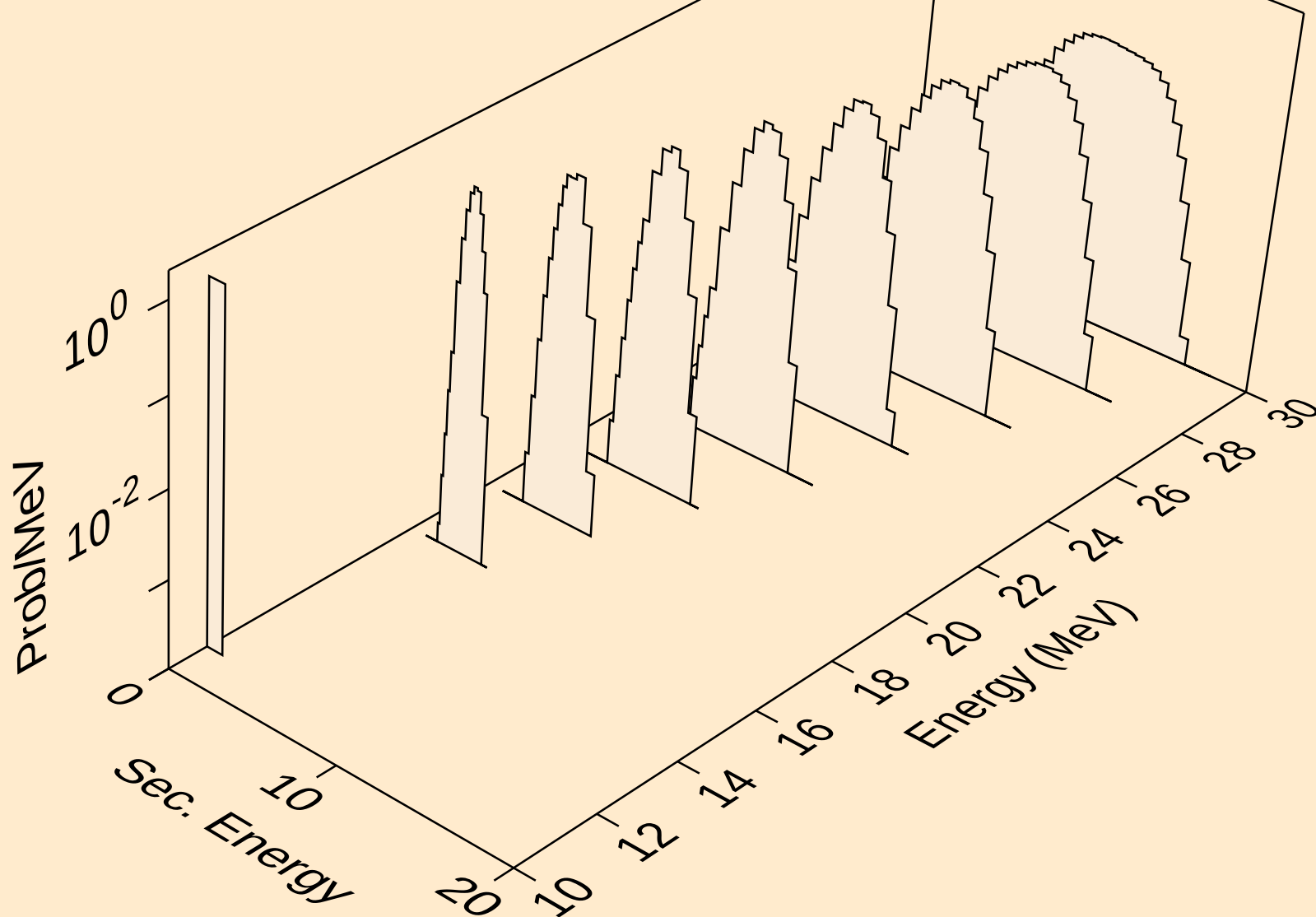
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deuterons from (n,n*)d



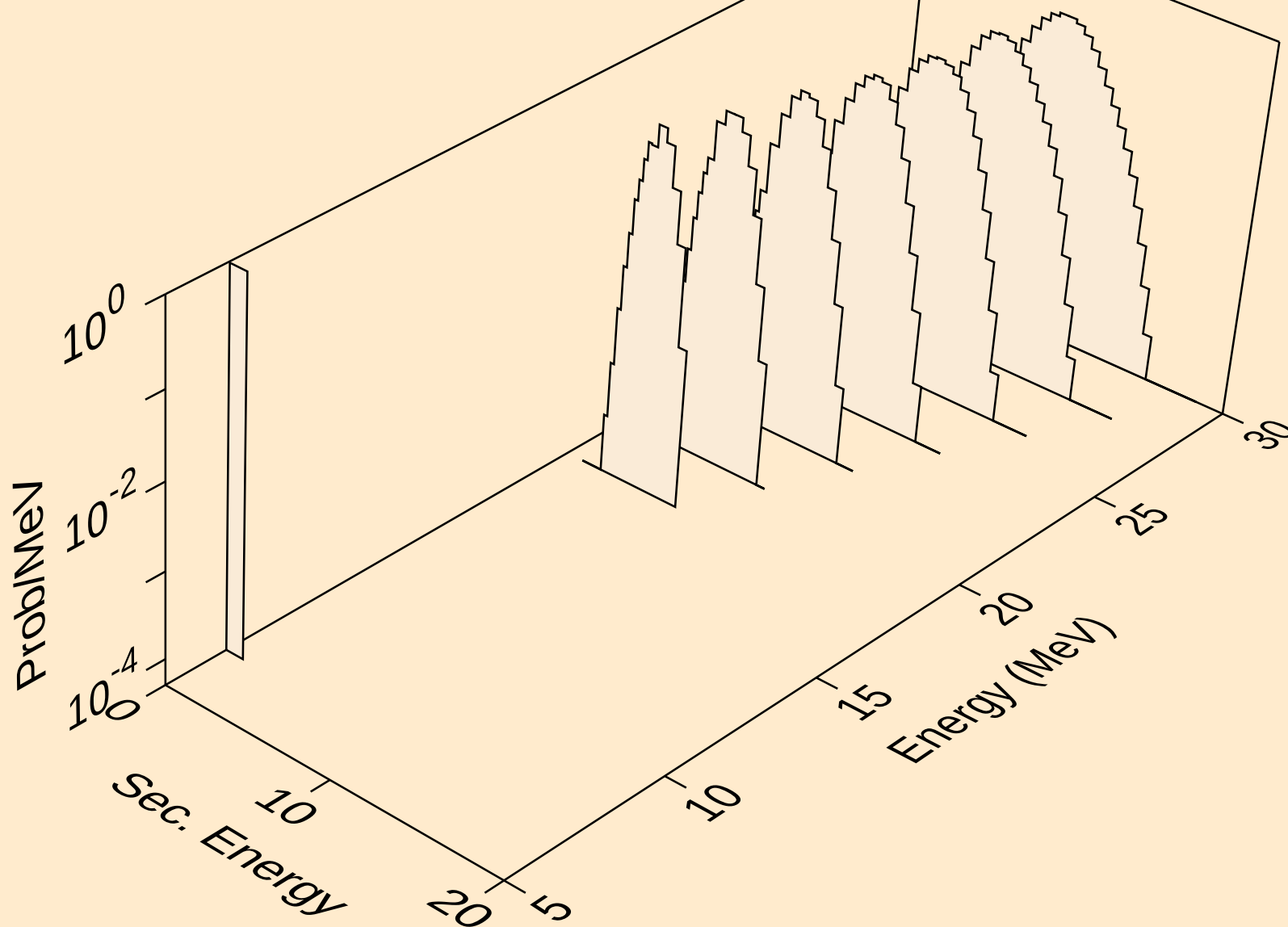
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deuterons from (n,d)



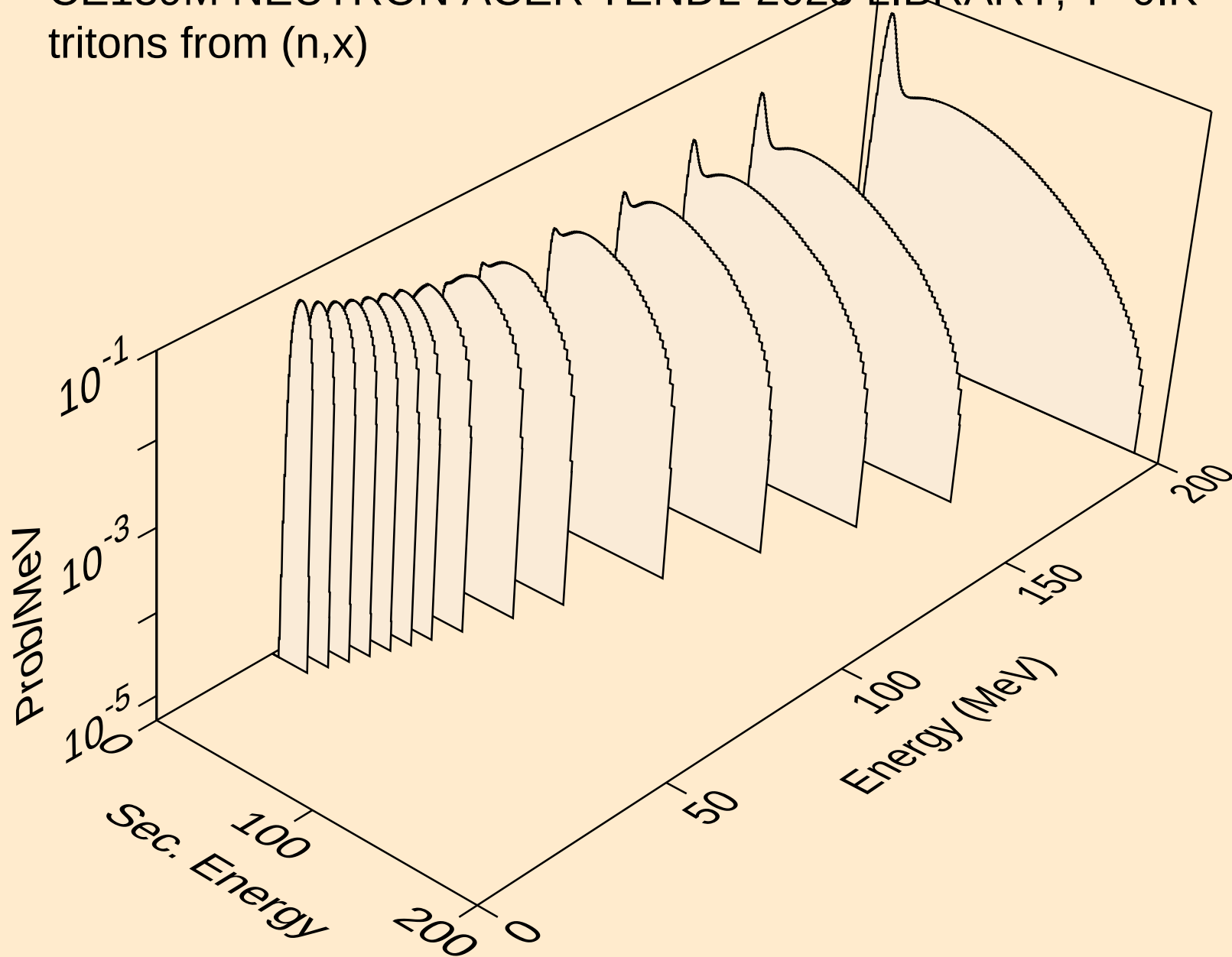
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deuterons from (n,pd)



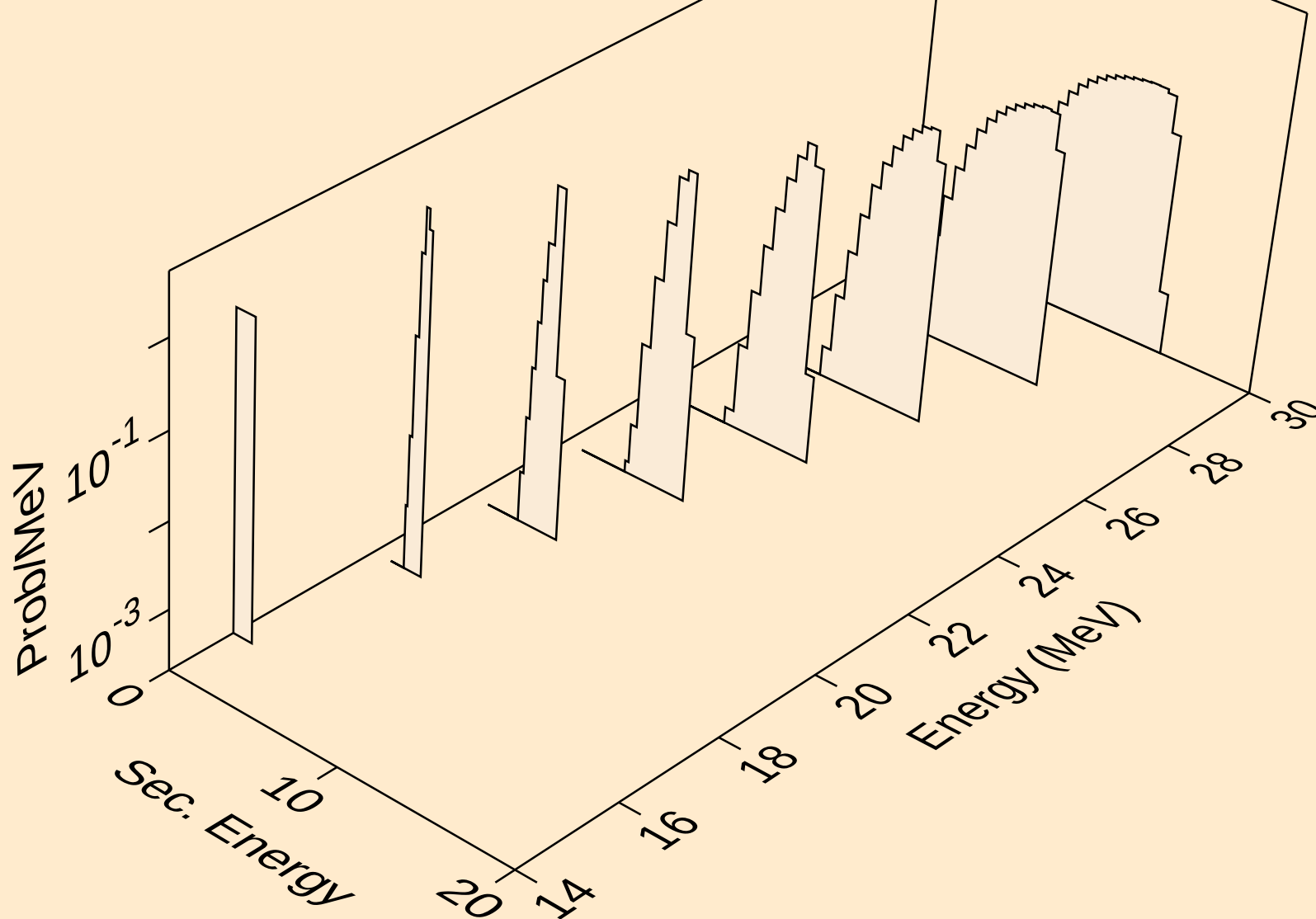
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deuterons from (n,da)



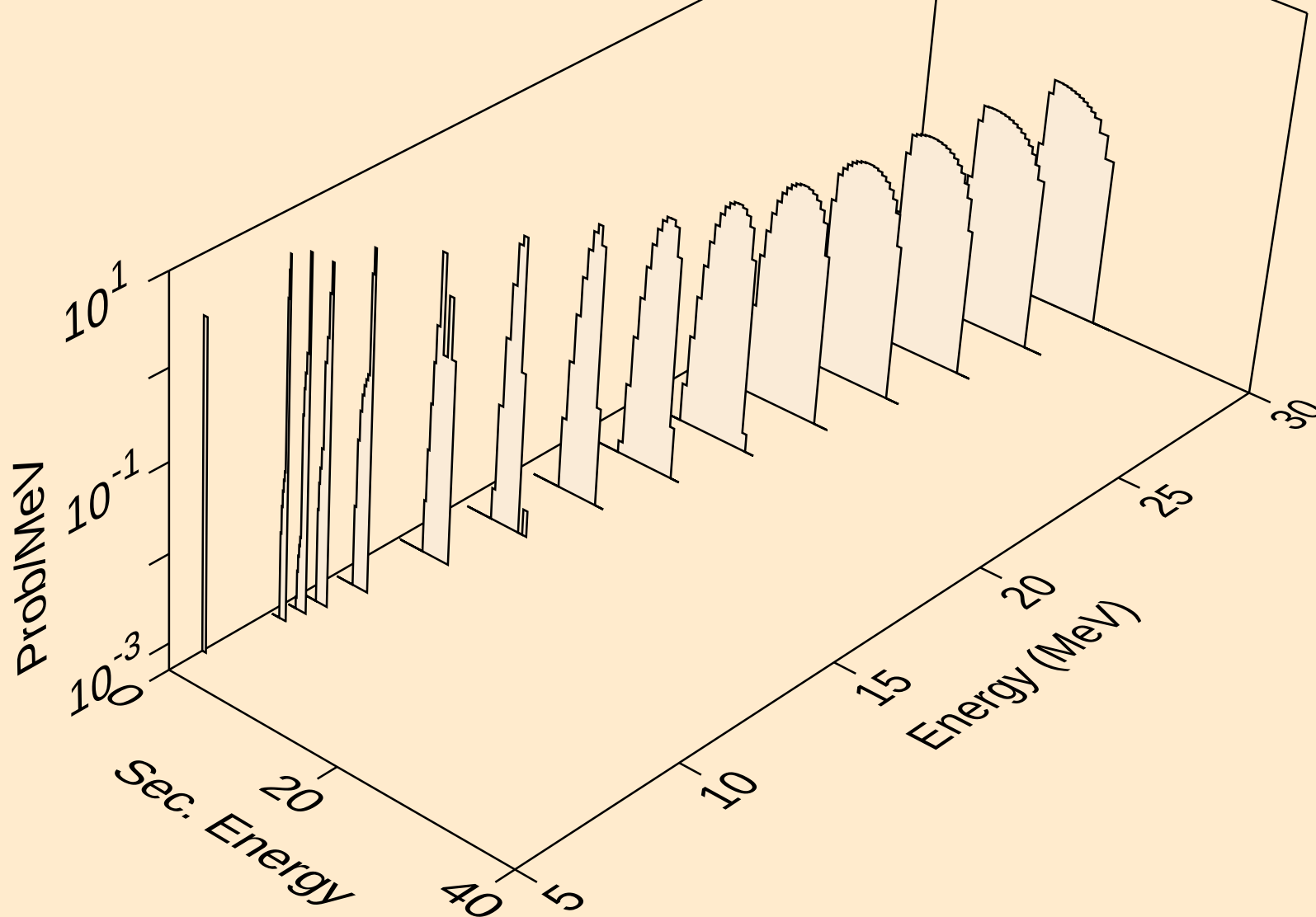
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tritons from (n,x)



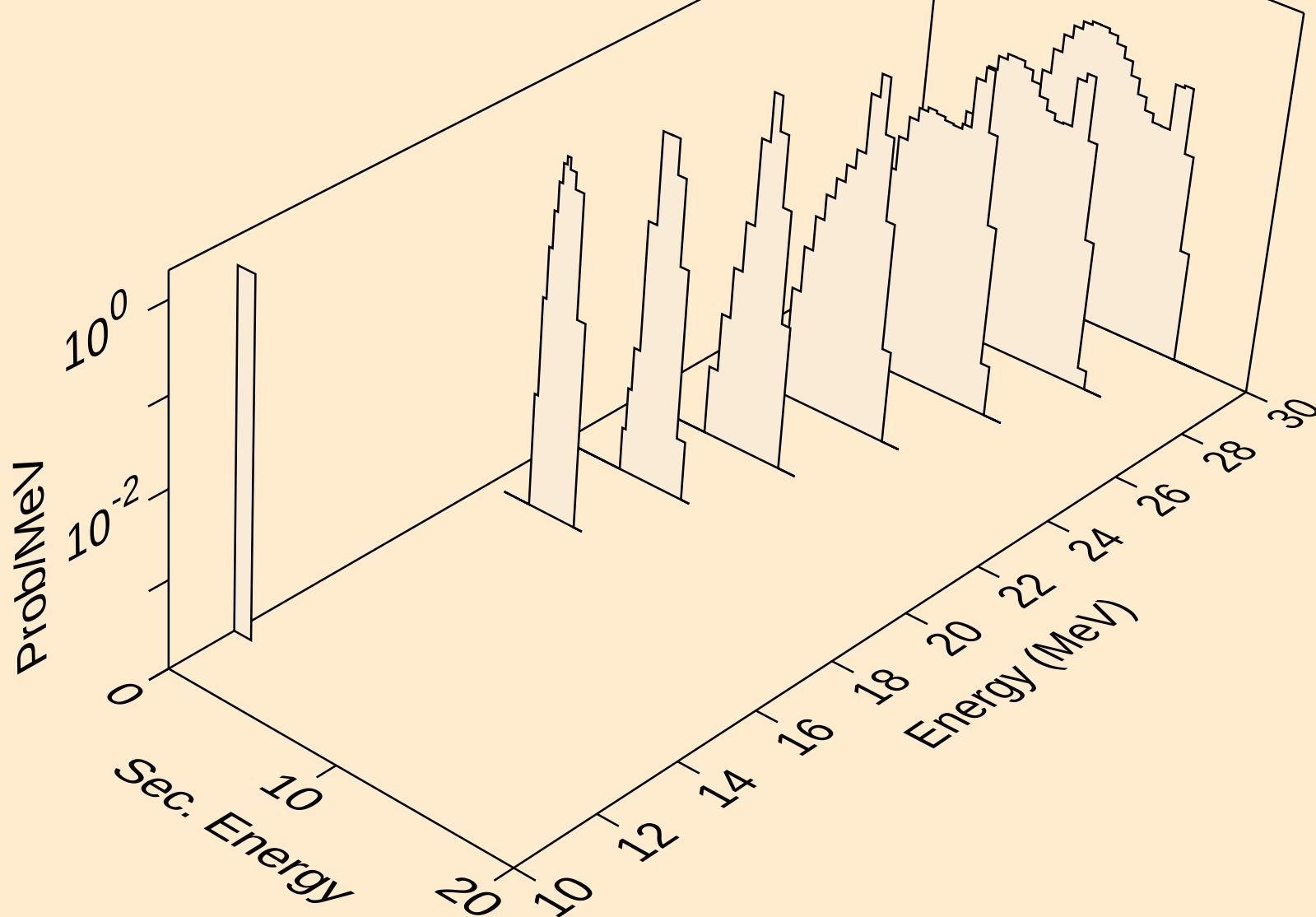
CE139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
tritons from (n,n*)t



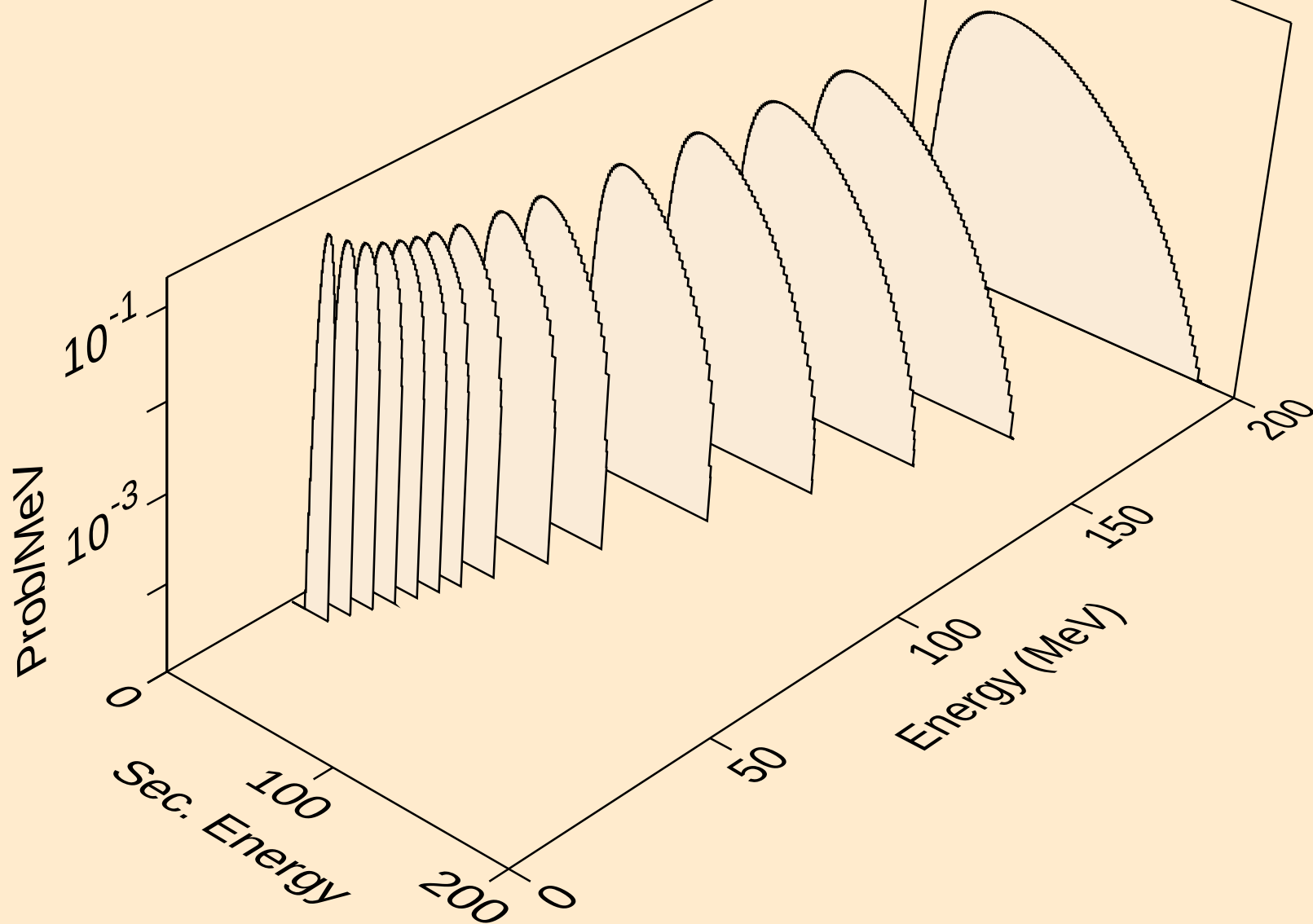
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tritons from (n,t)



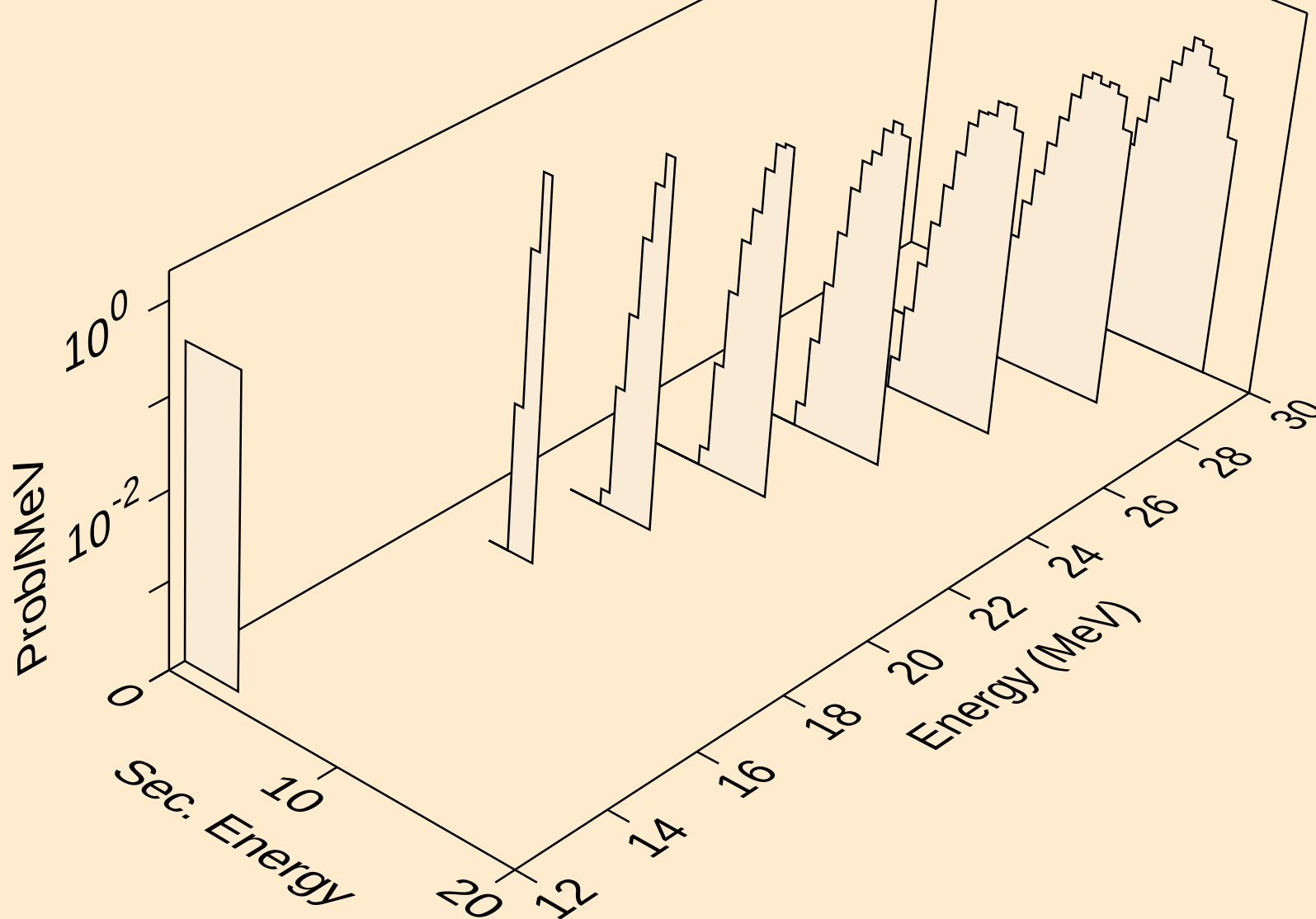
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tritons from (n,pt)



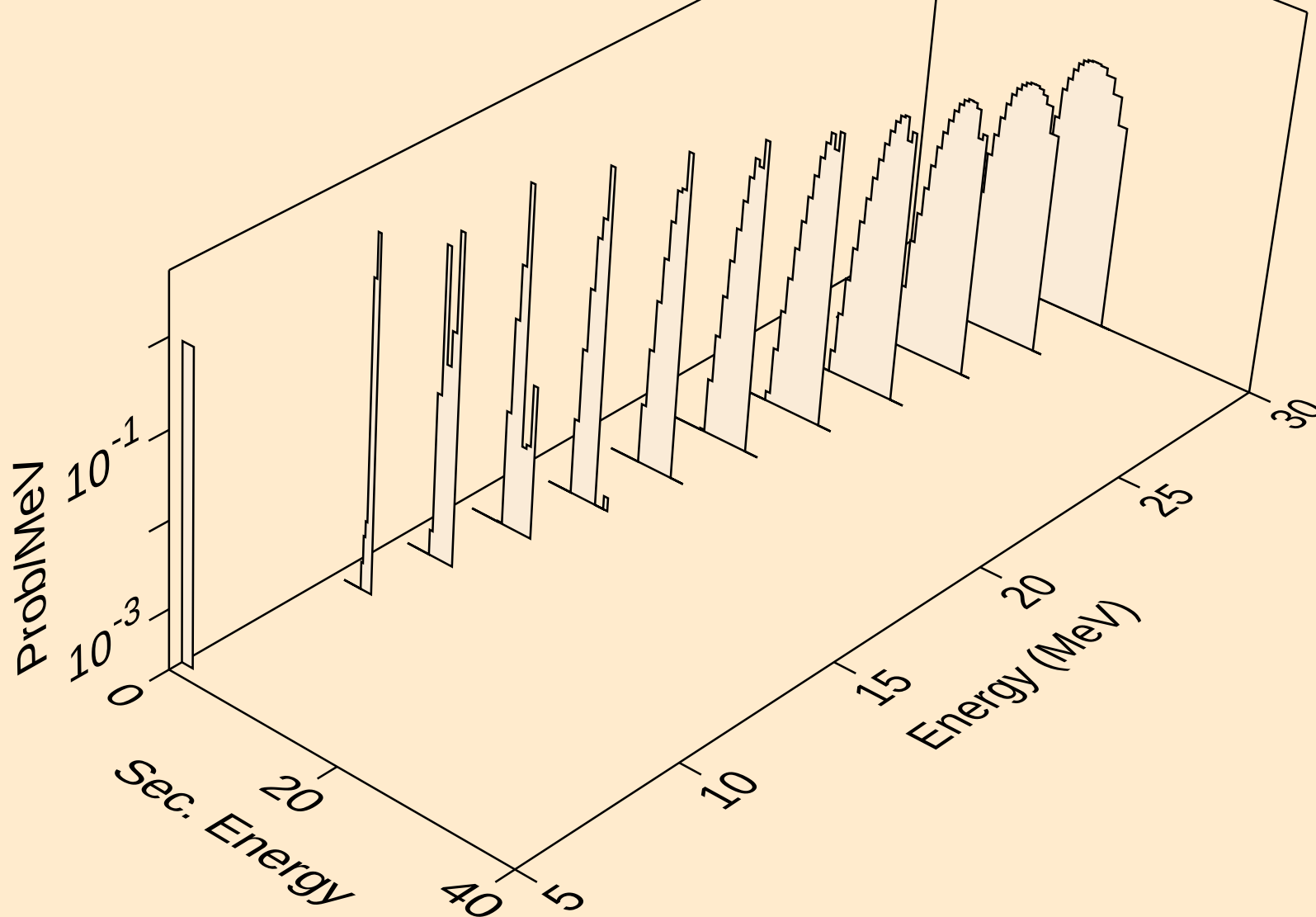
CE139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
he3s from (n,x)



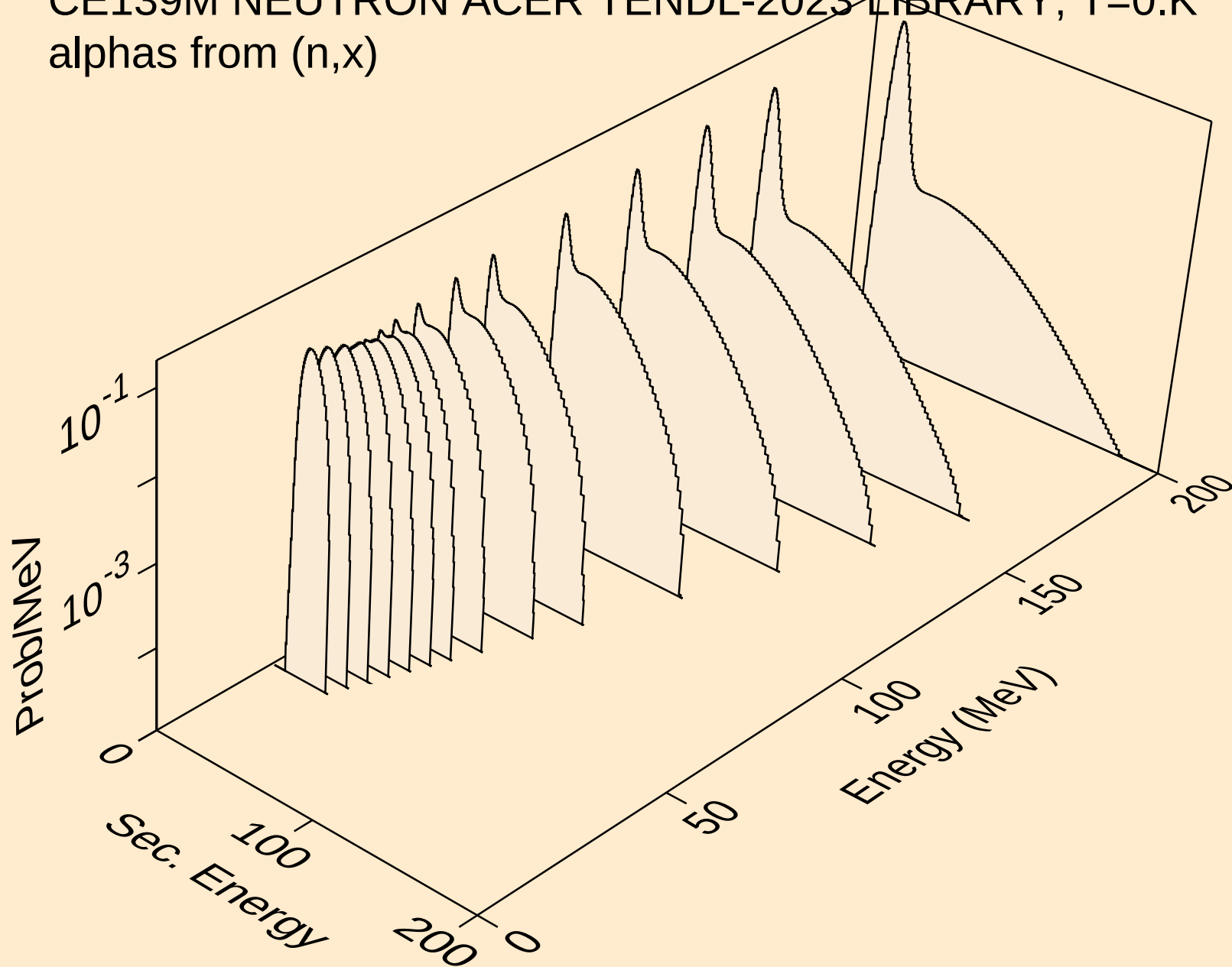
CE139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
he3s from (n,n*)he3



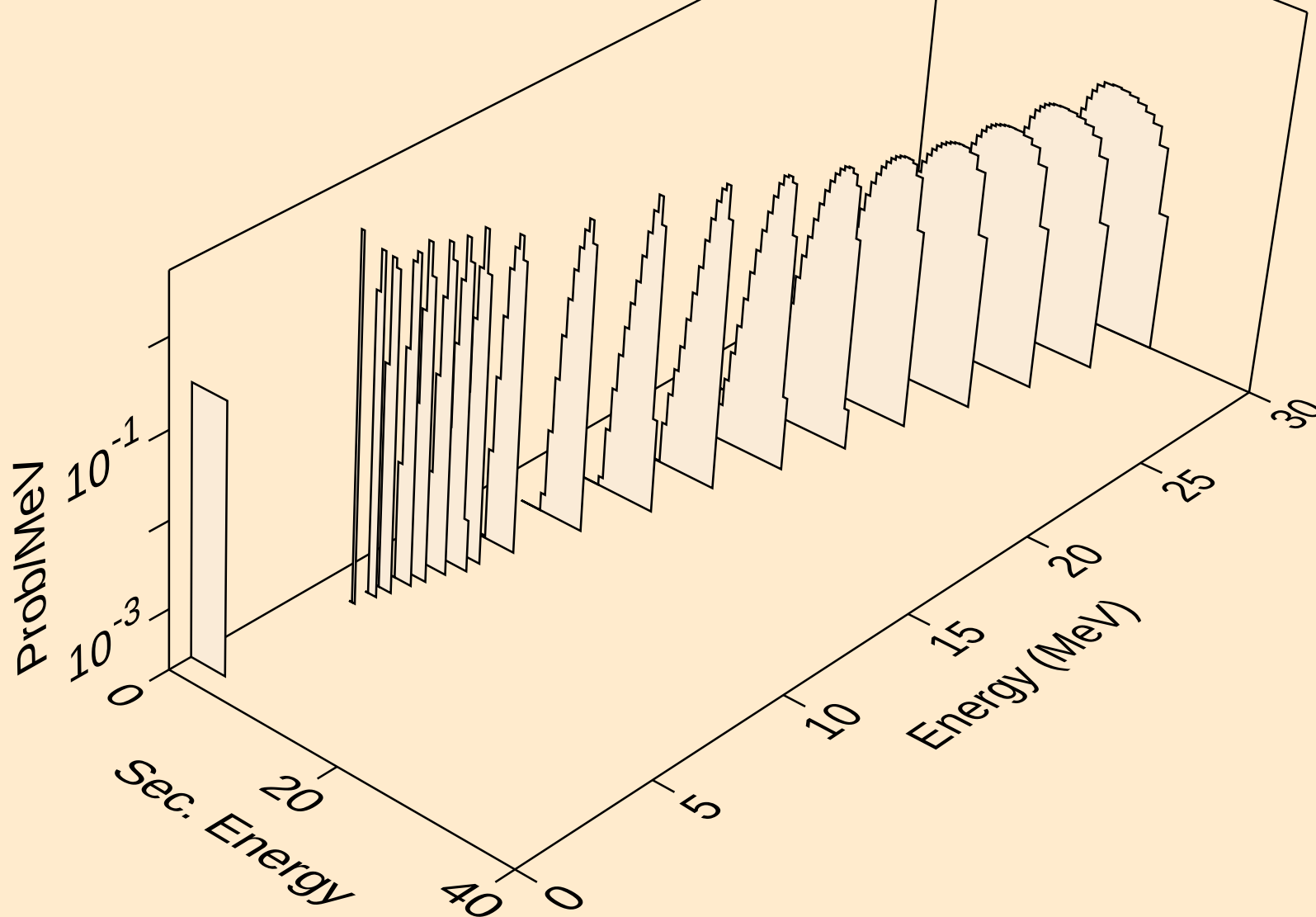
CE139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
he3s from (n,he3)



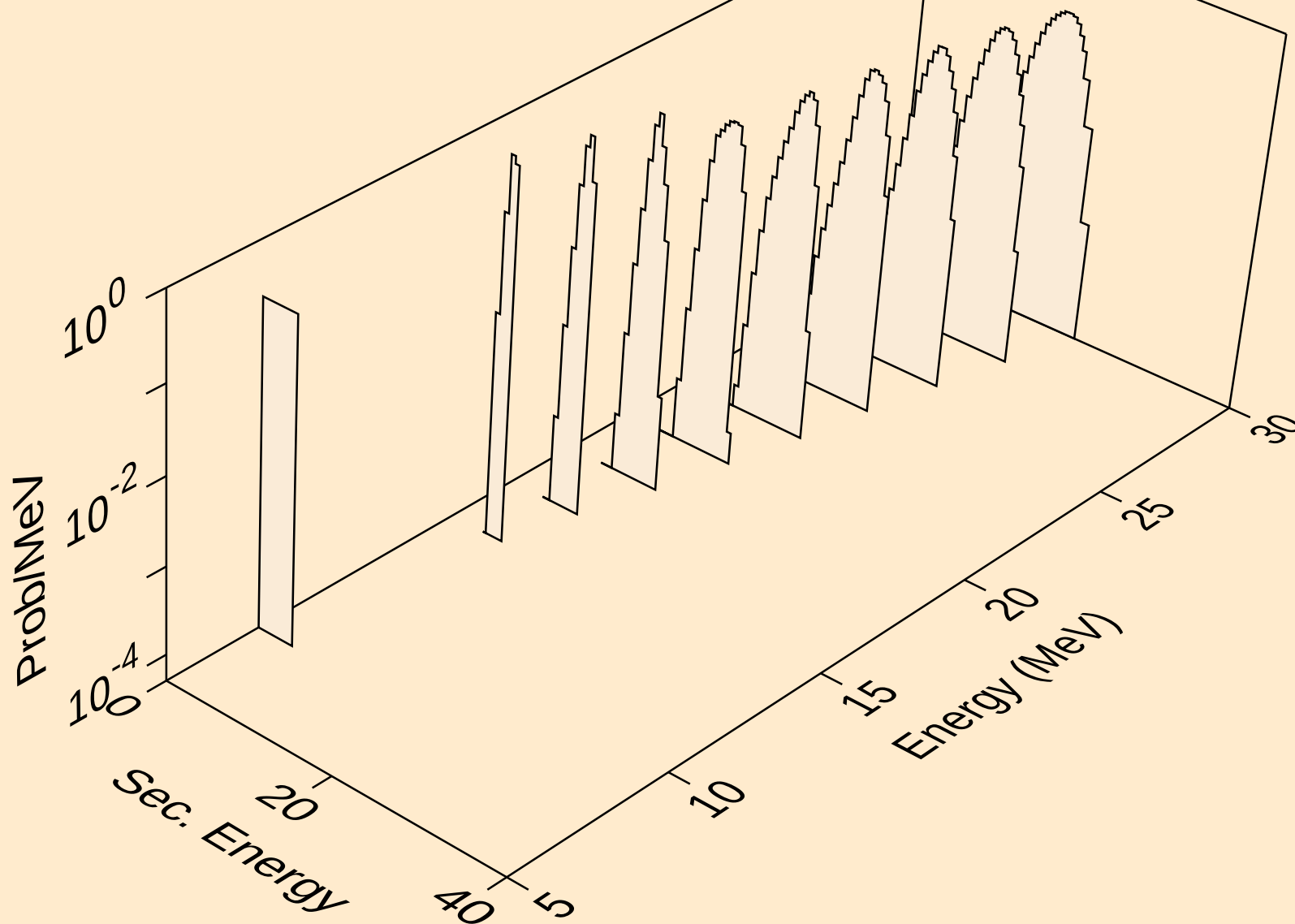
CE139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
alphas from (n,x)



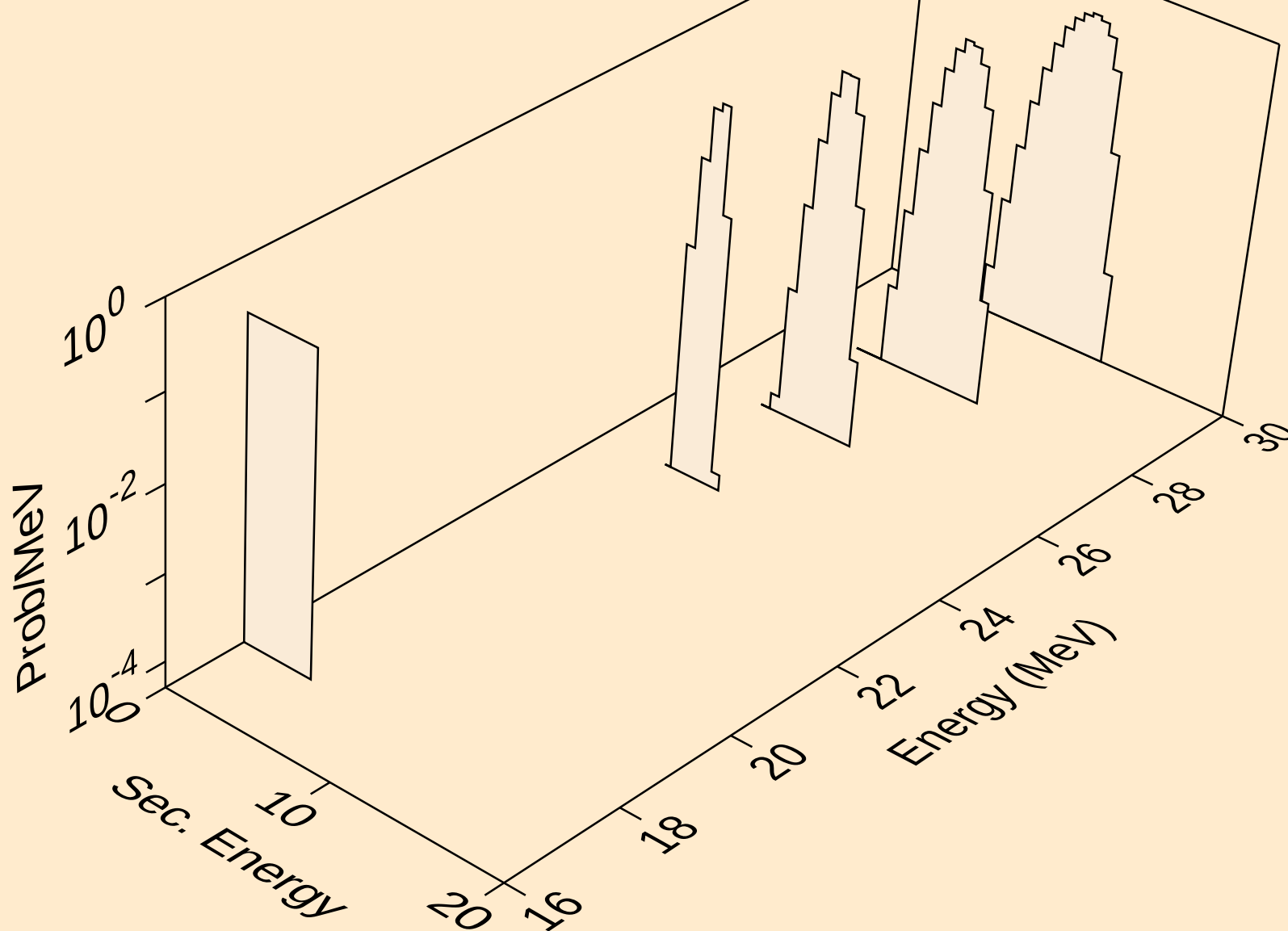
CE139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
alphas from (n,n*)a



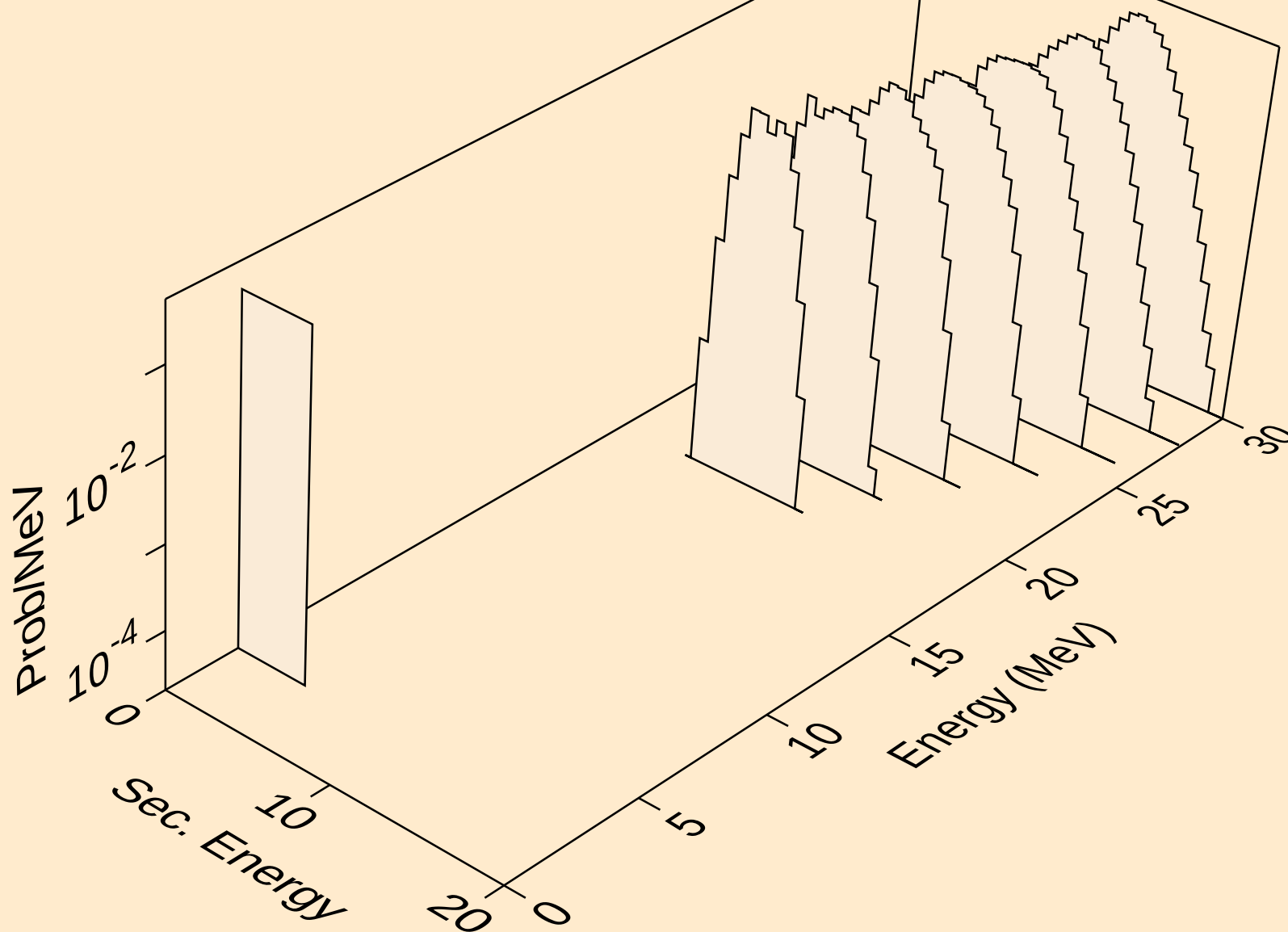
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alphas from (n,2n)a



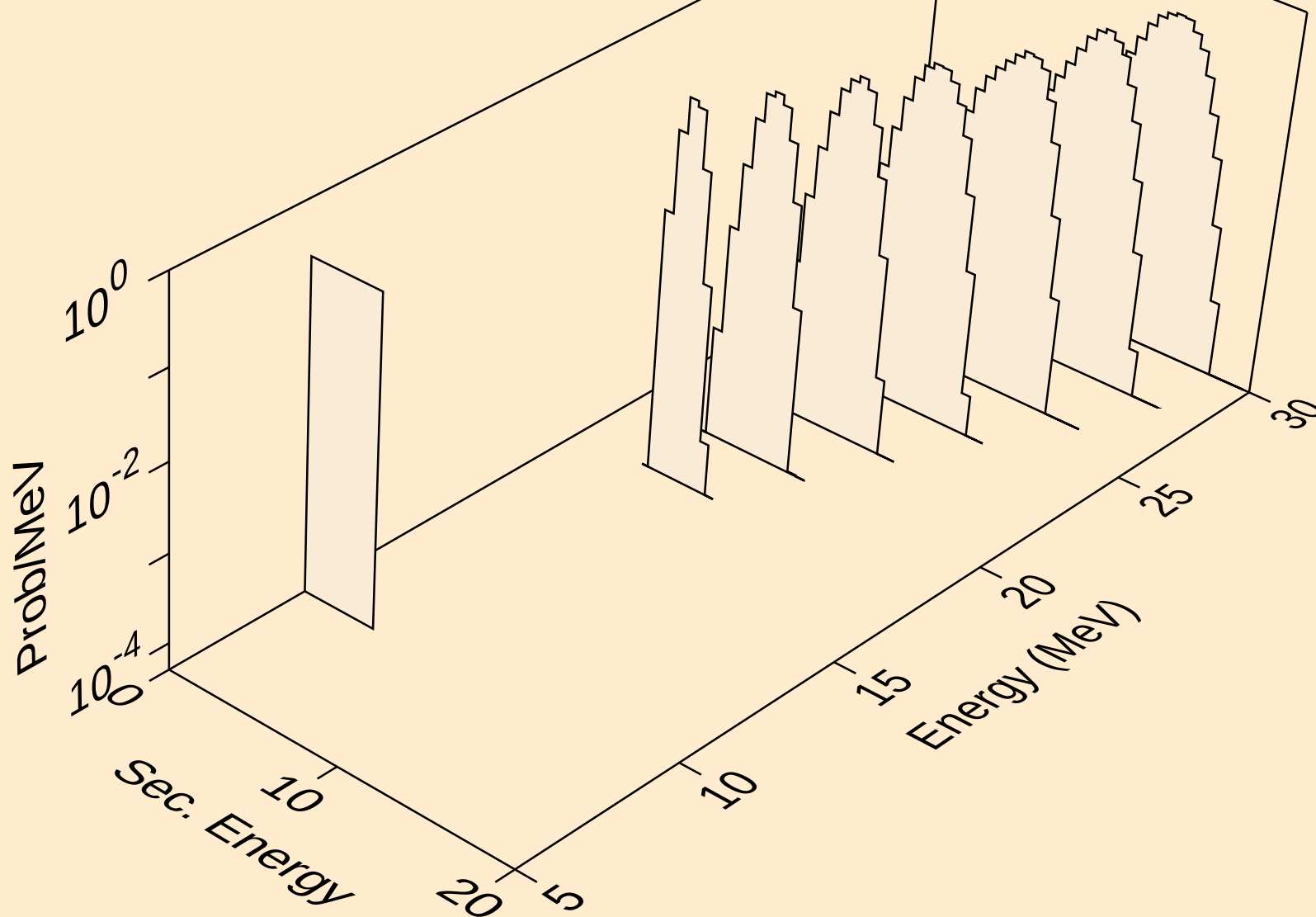
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alphas from (n,3n)a



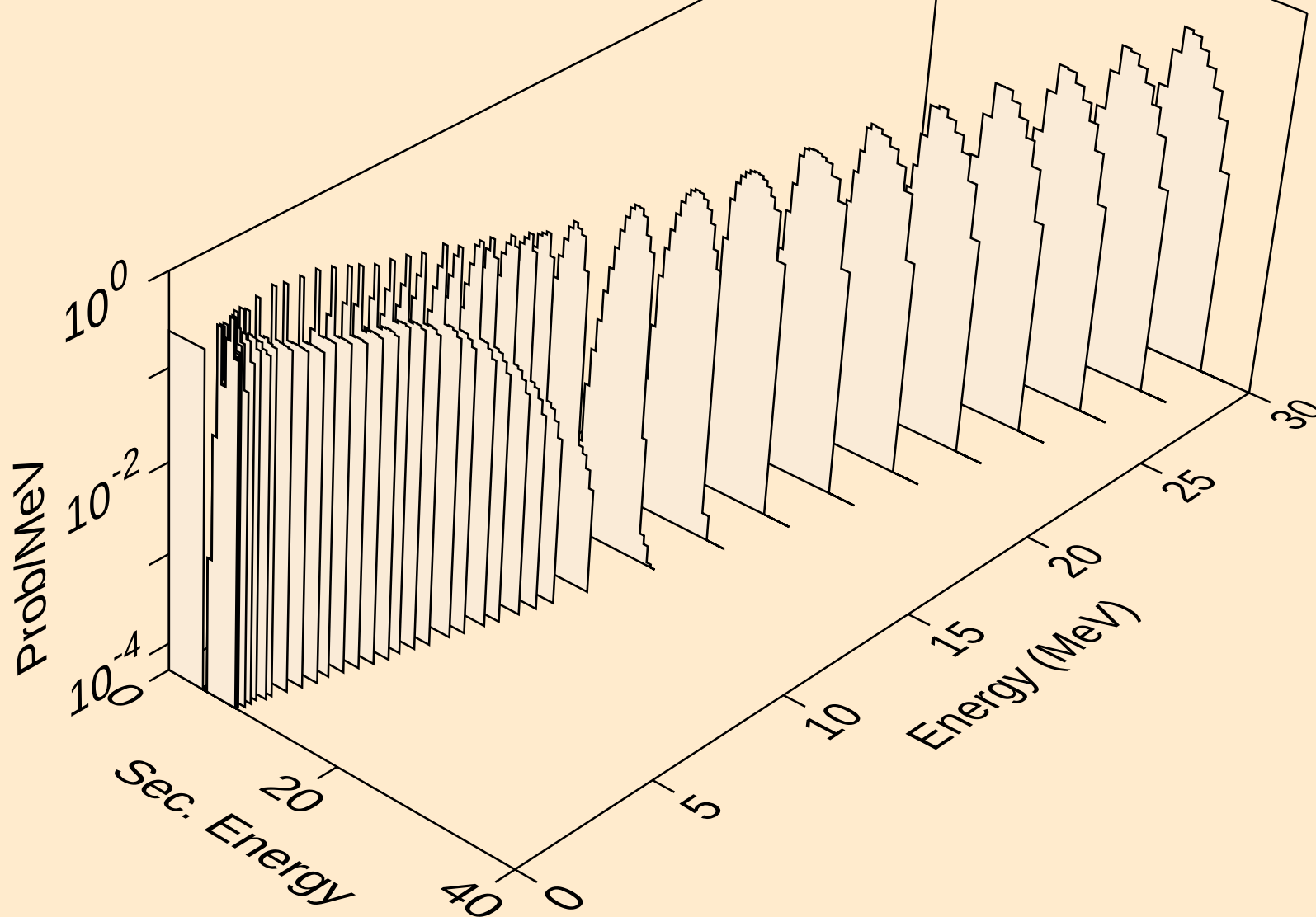
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alphas from (n,n*)2a



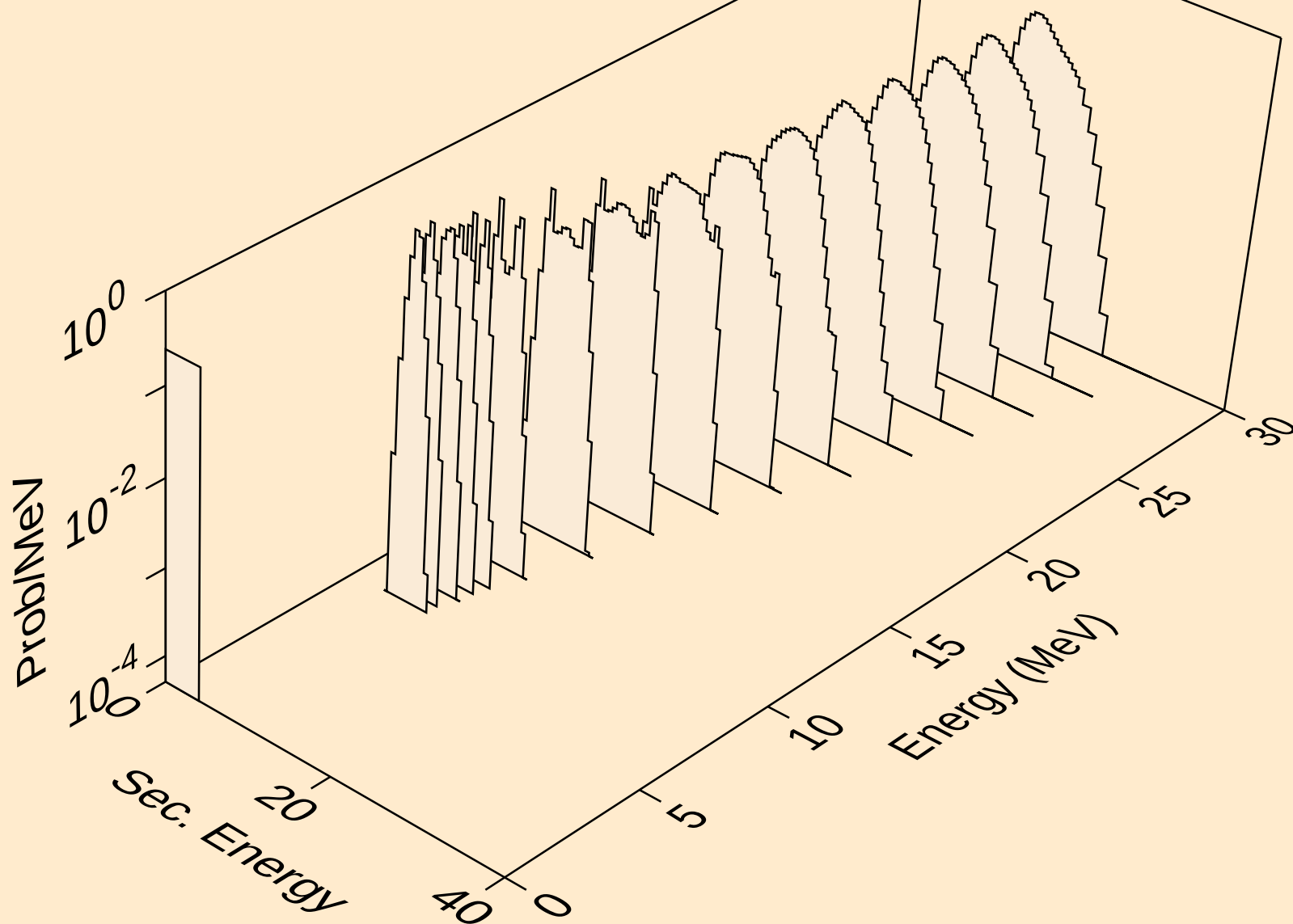
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alphas from (n,npa)



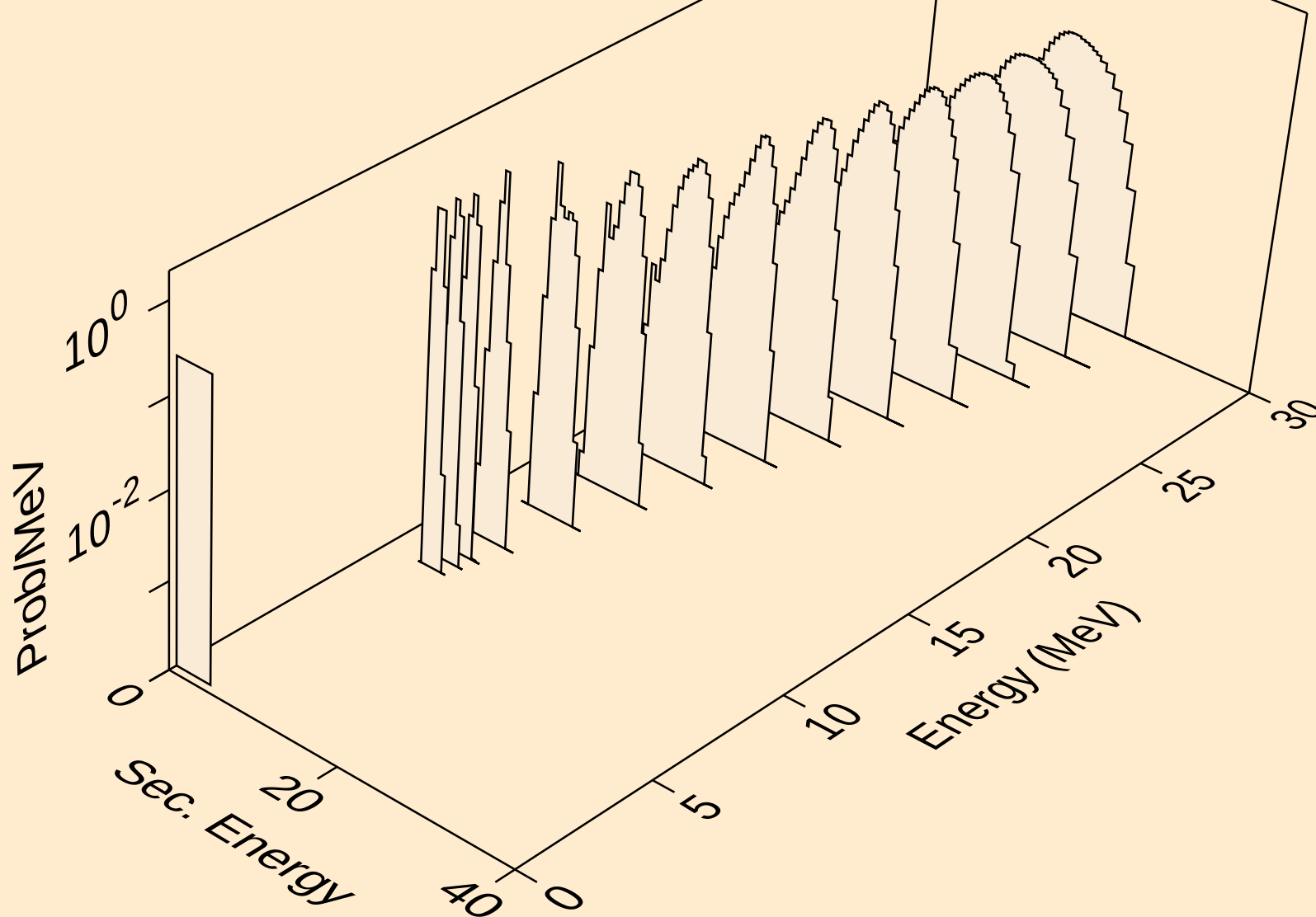
CE139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
alphas from (n,a)



CE139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
alphas from (n,2a)



CE139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
alphas from (n,pa)



CE139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K
alphas from (n,da)

