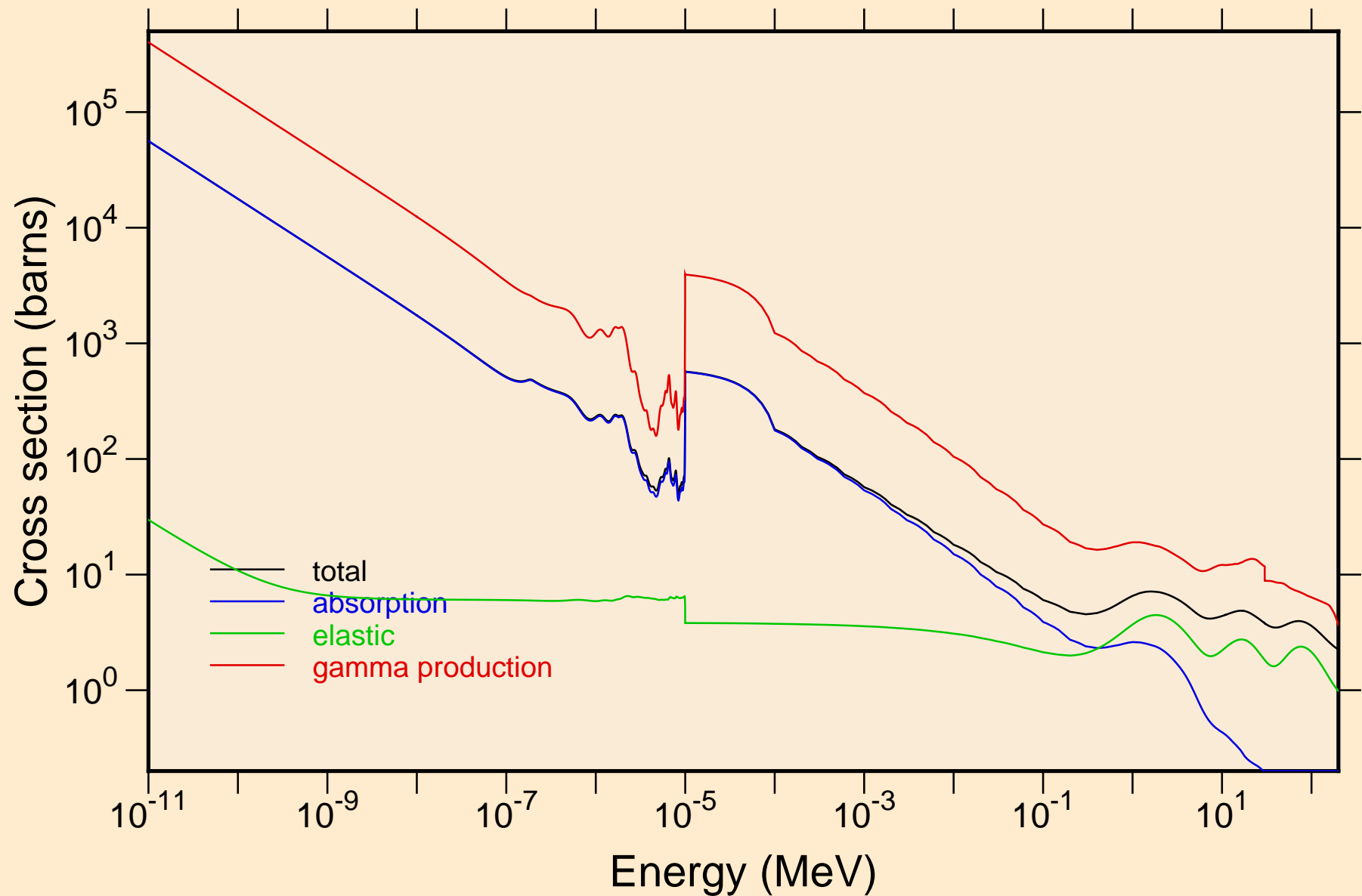
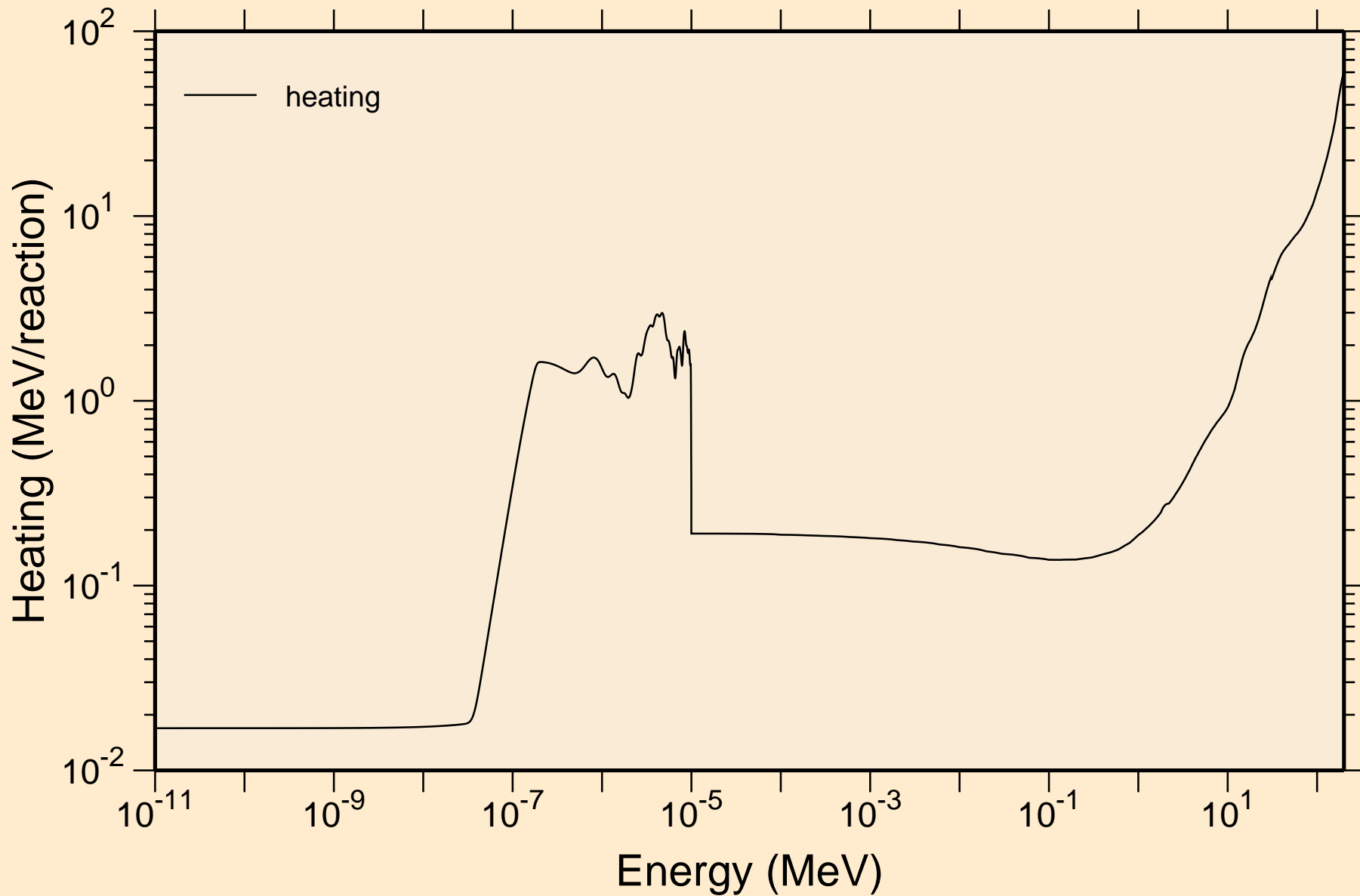


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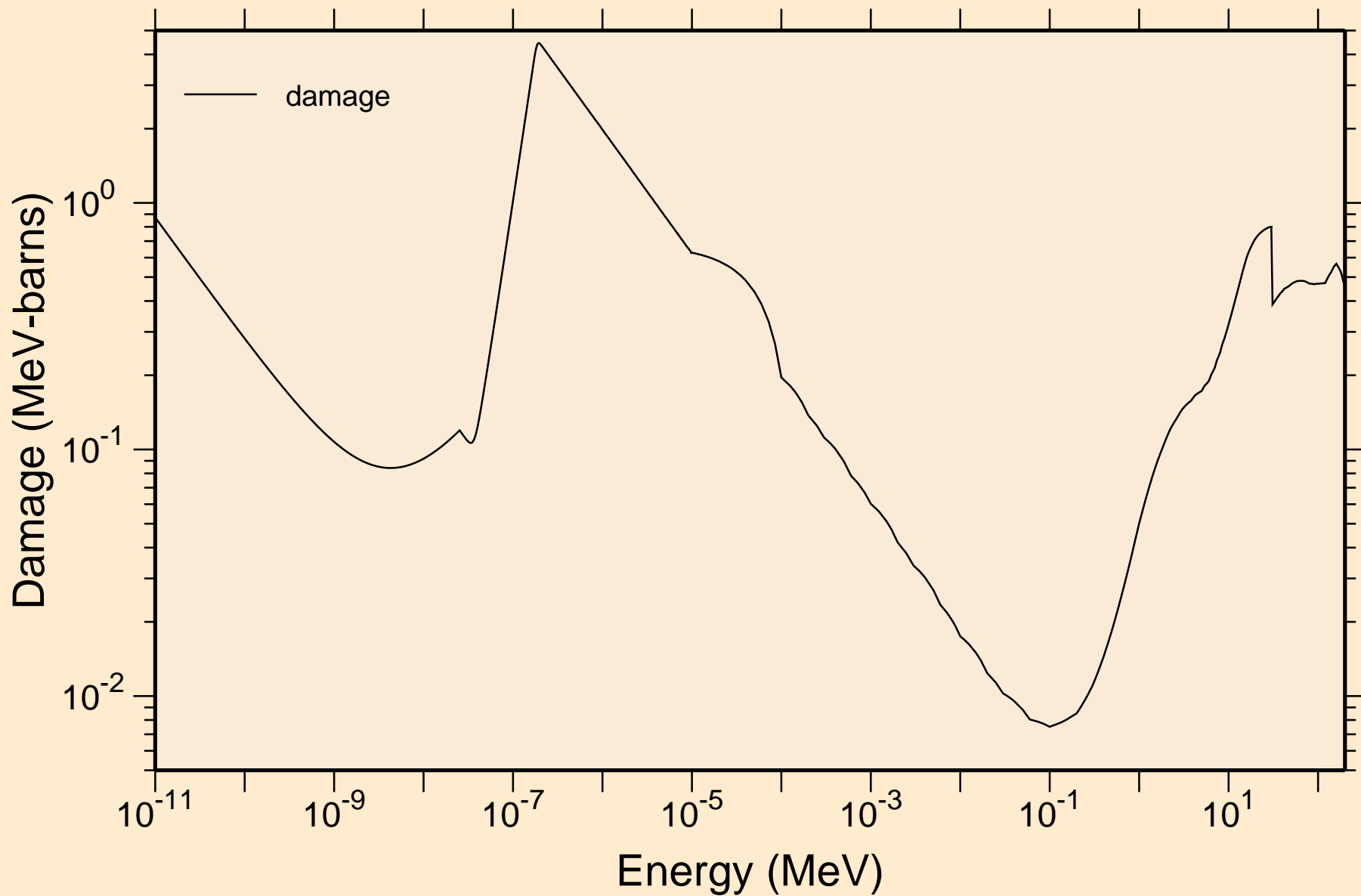
Principal cross sections



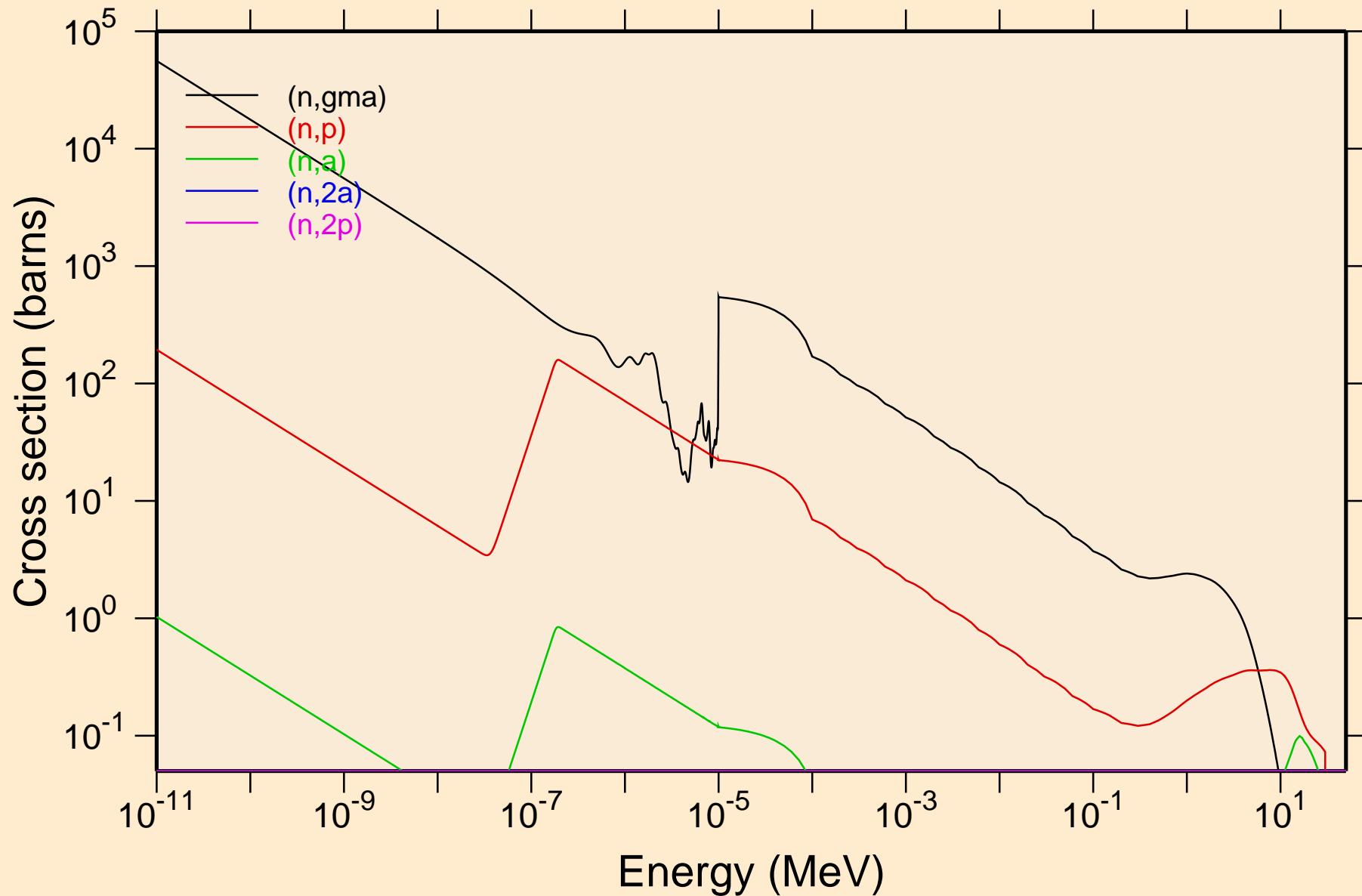
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Heating



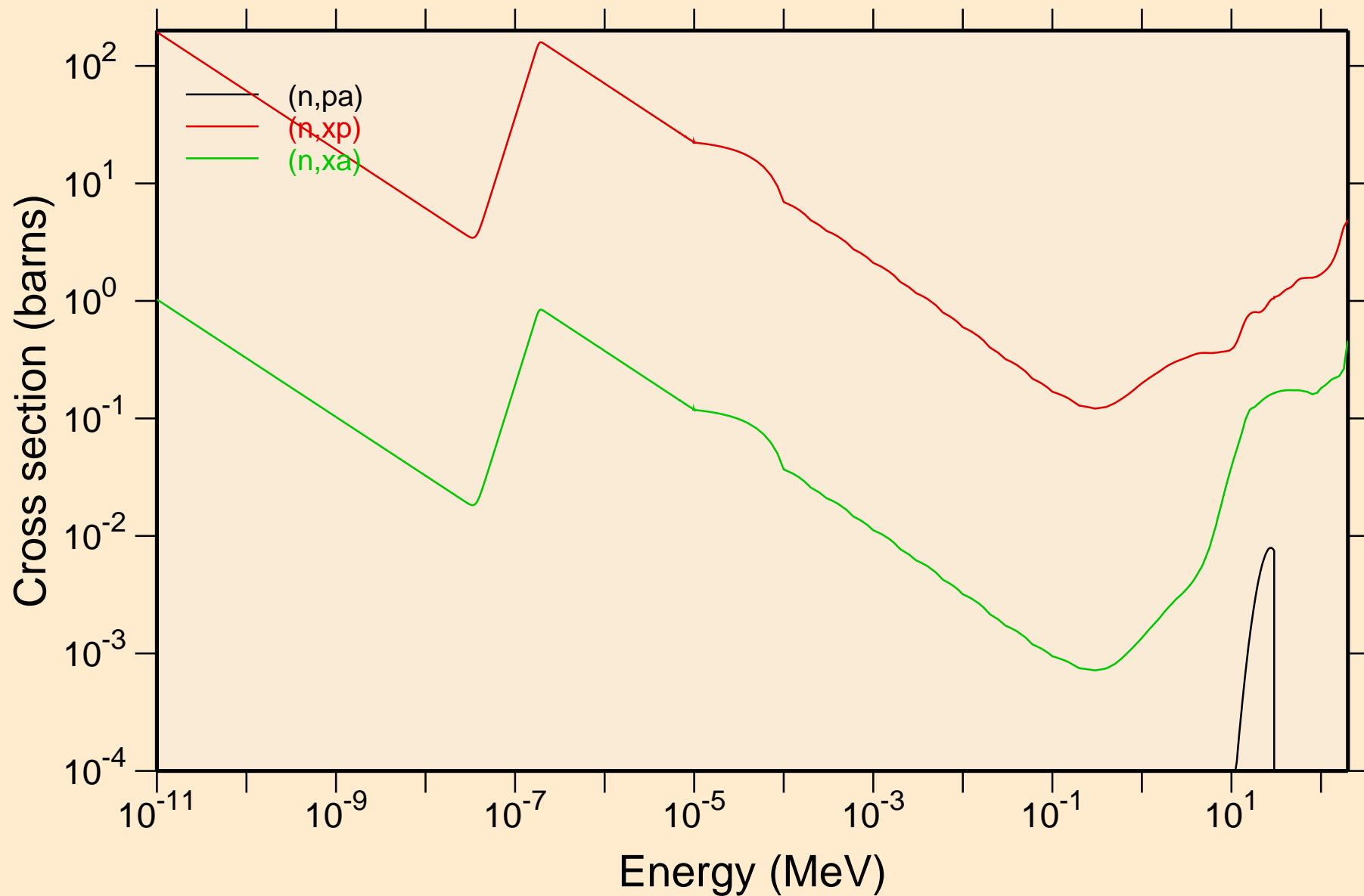
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Damage



SM139M NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Non-threshold reactions

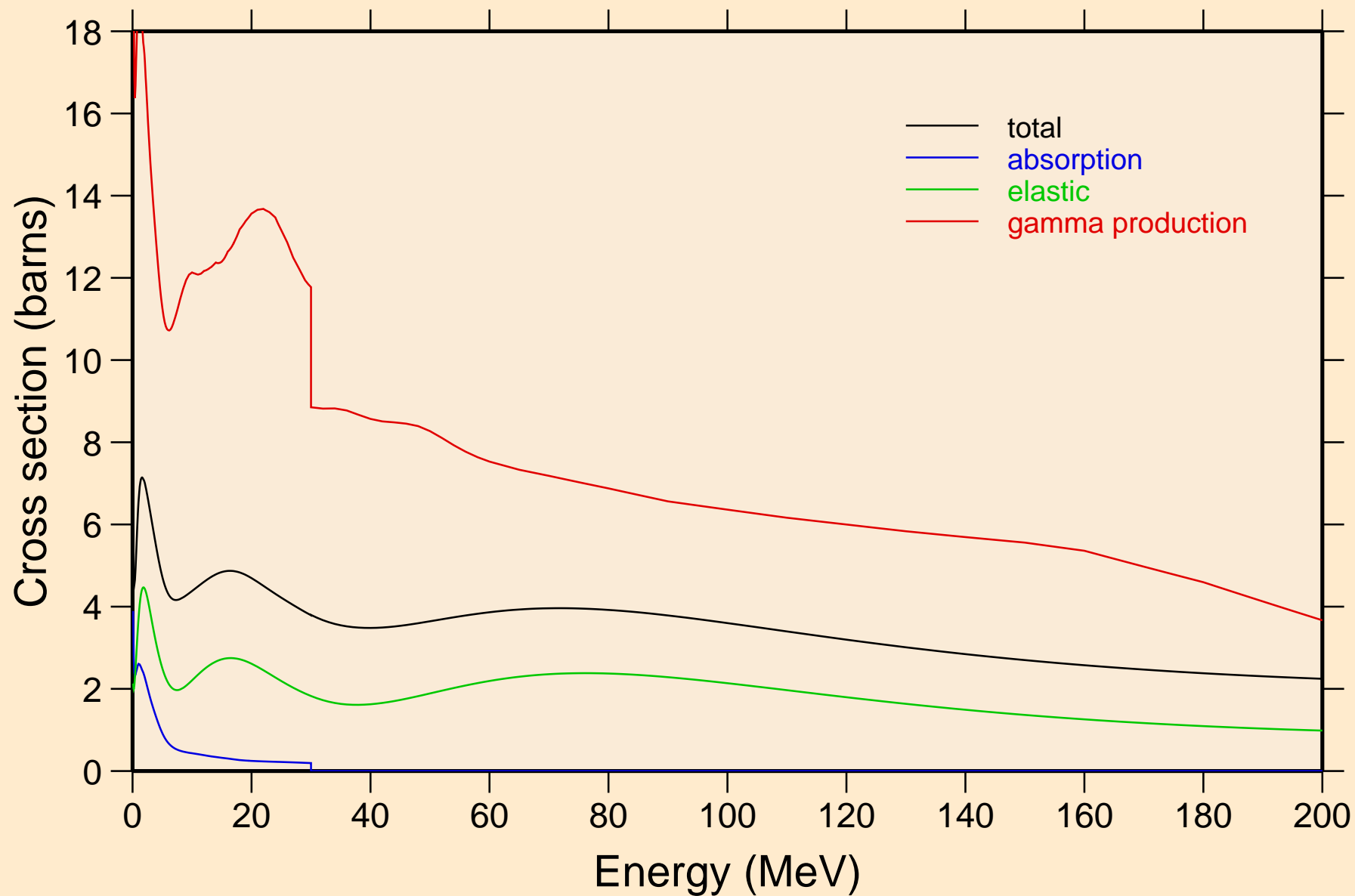


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Non-threshold reactions

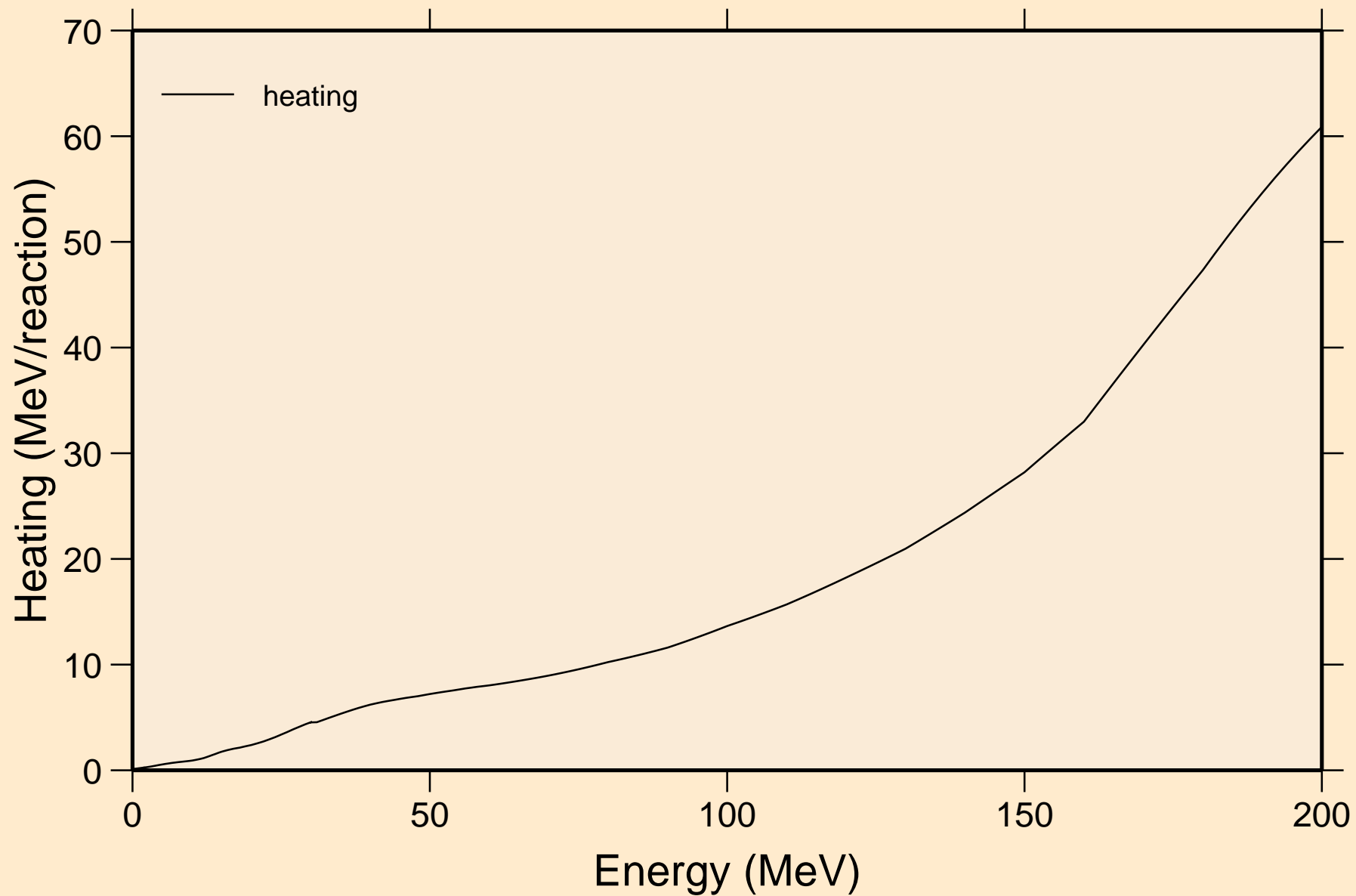


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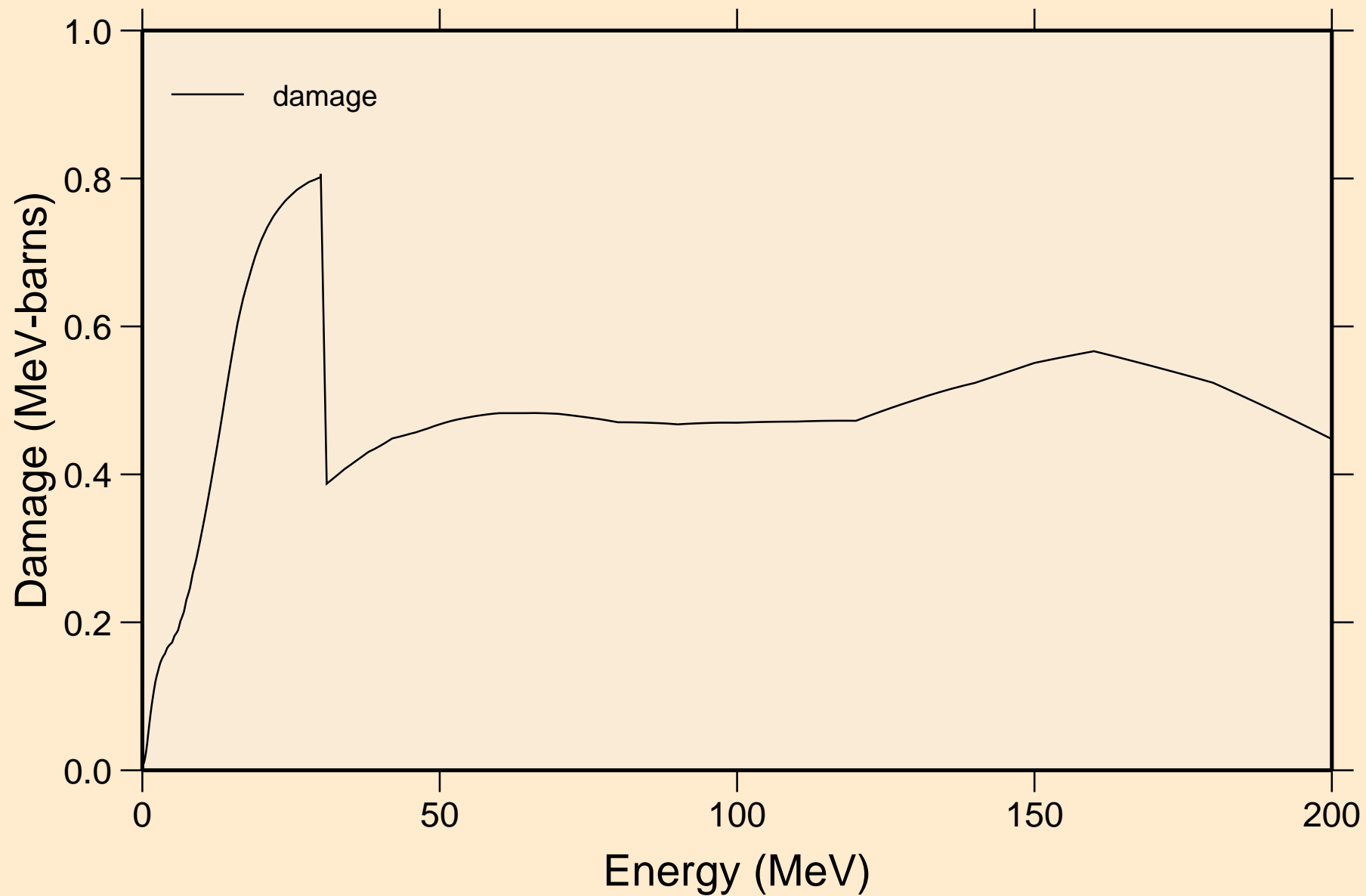
Principal cross sections



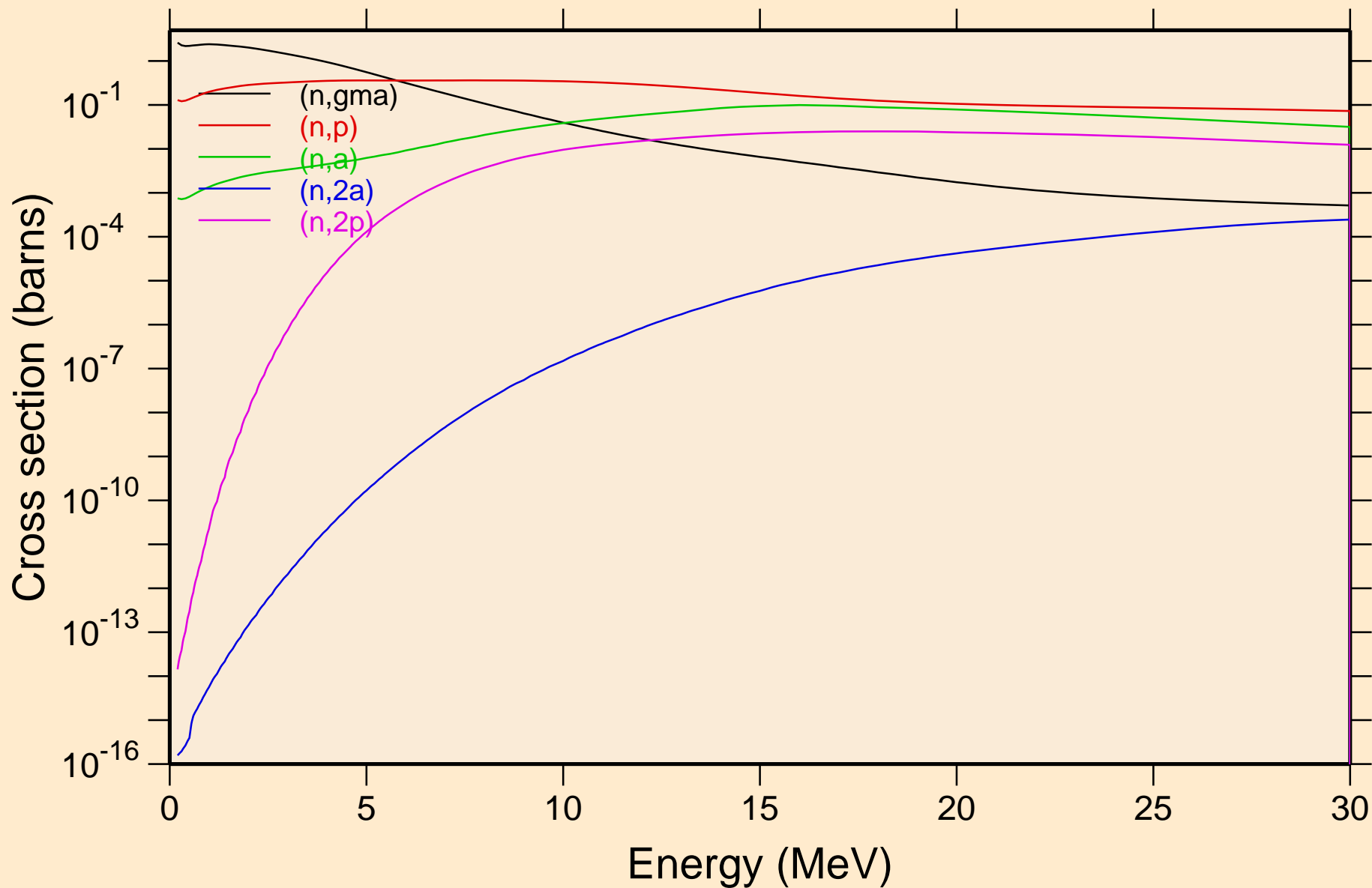
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Heating



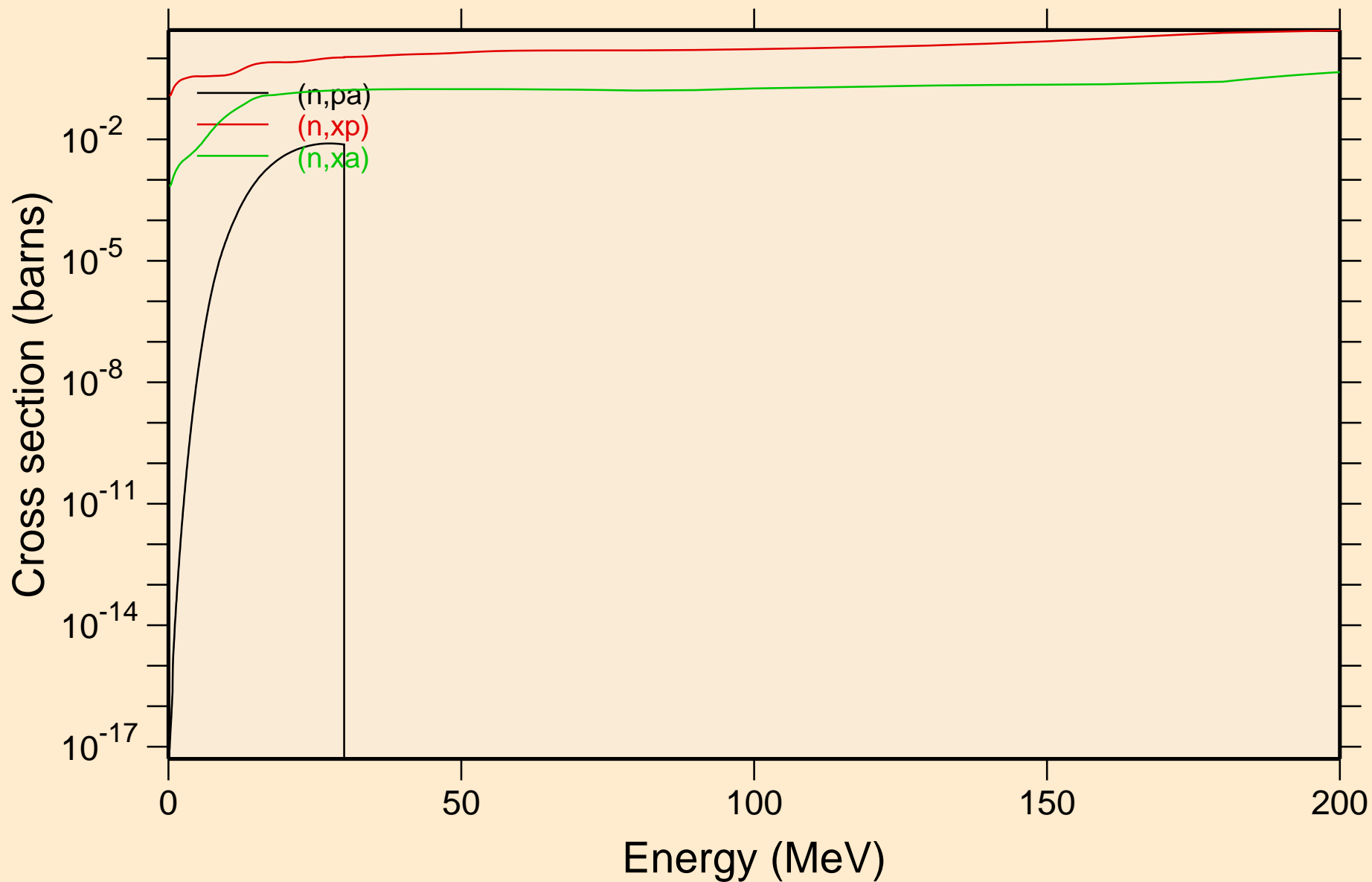
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Damage



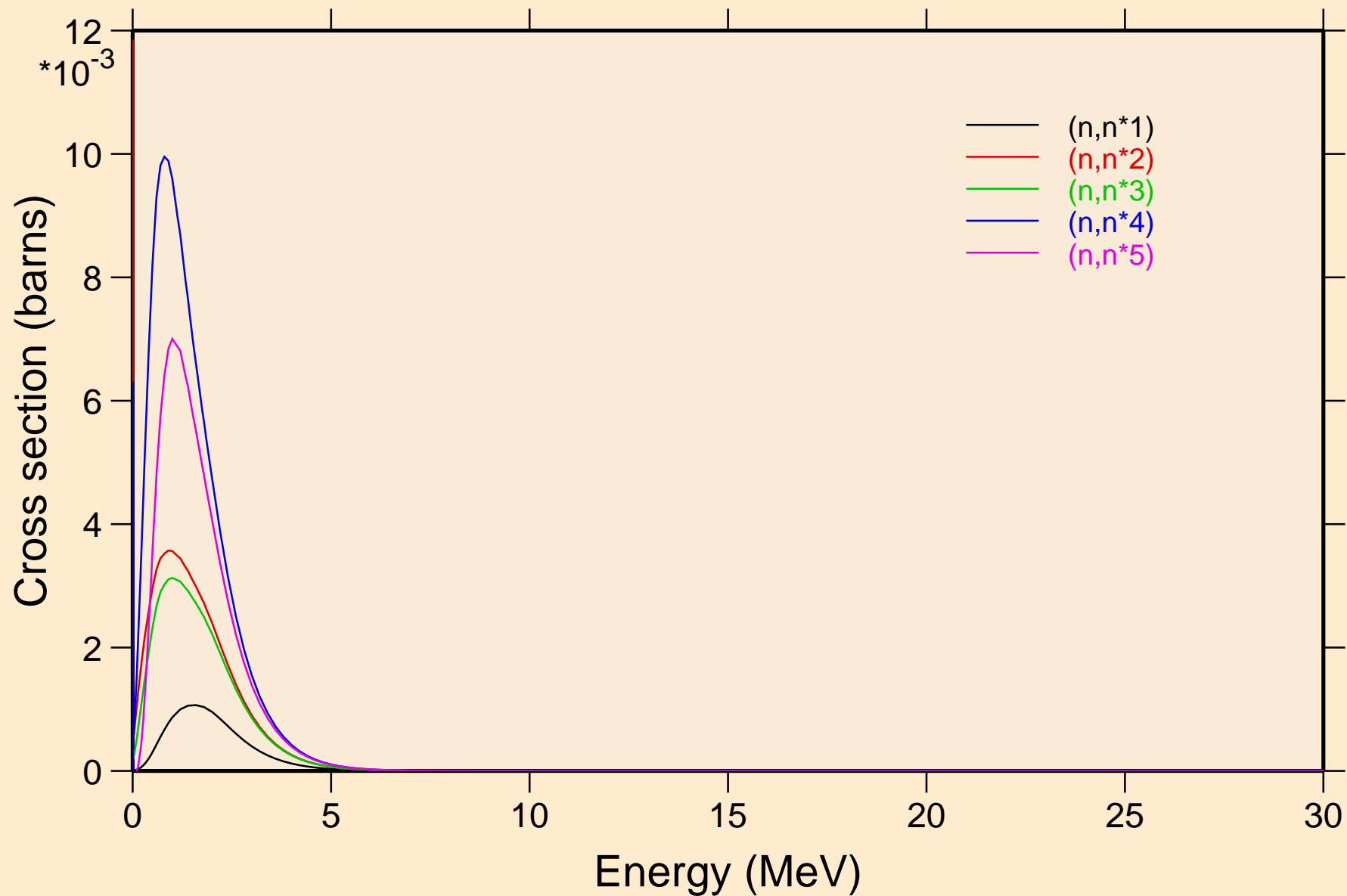
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Non-threshold reactions



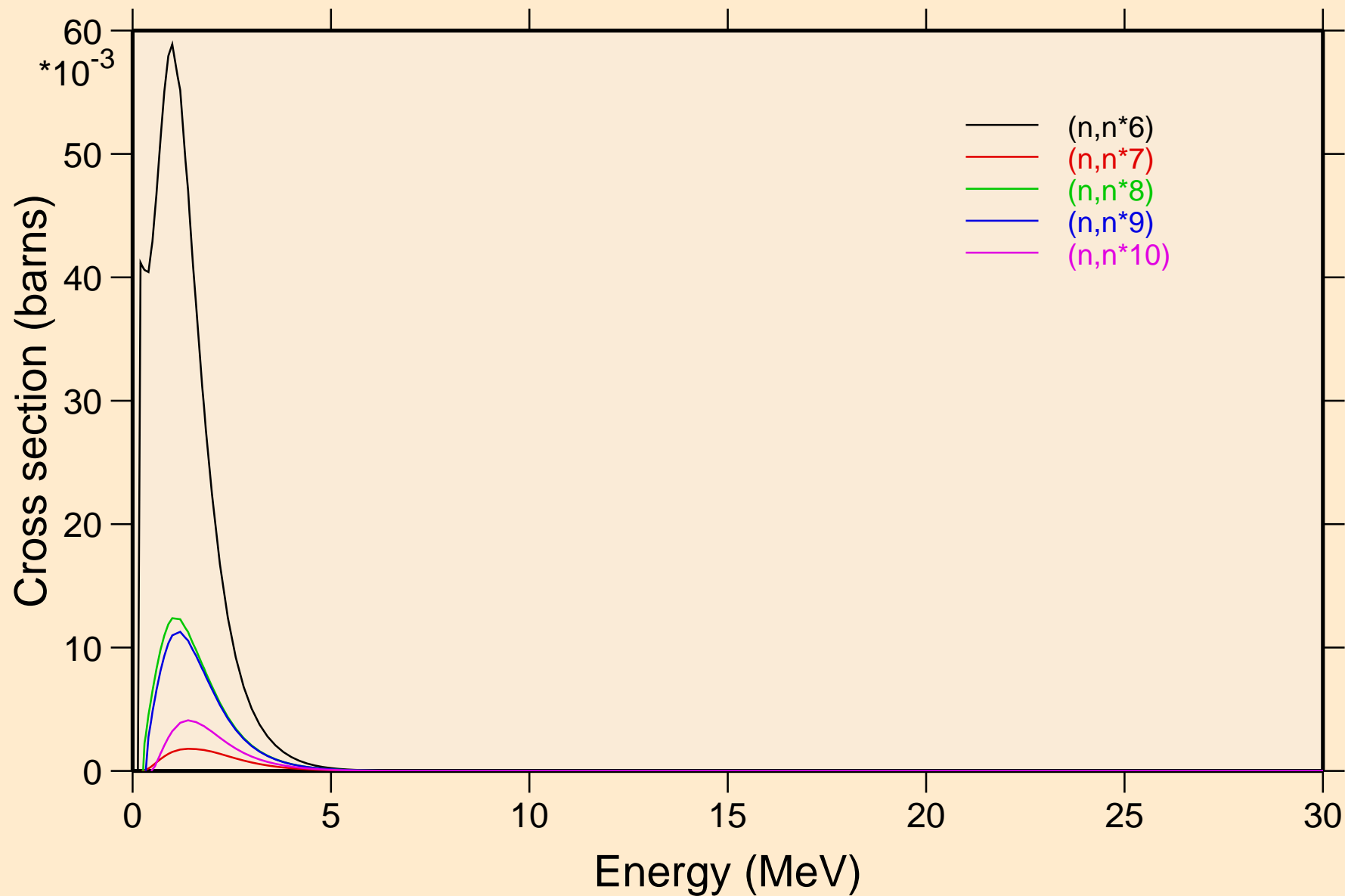
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Non-threshold reactions



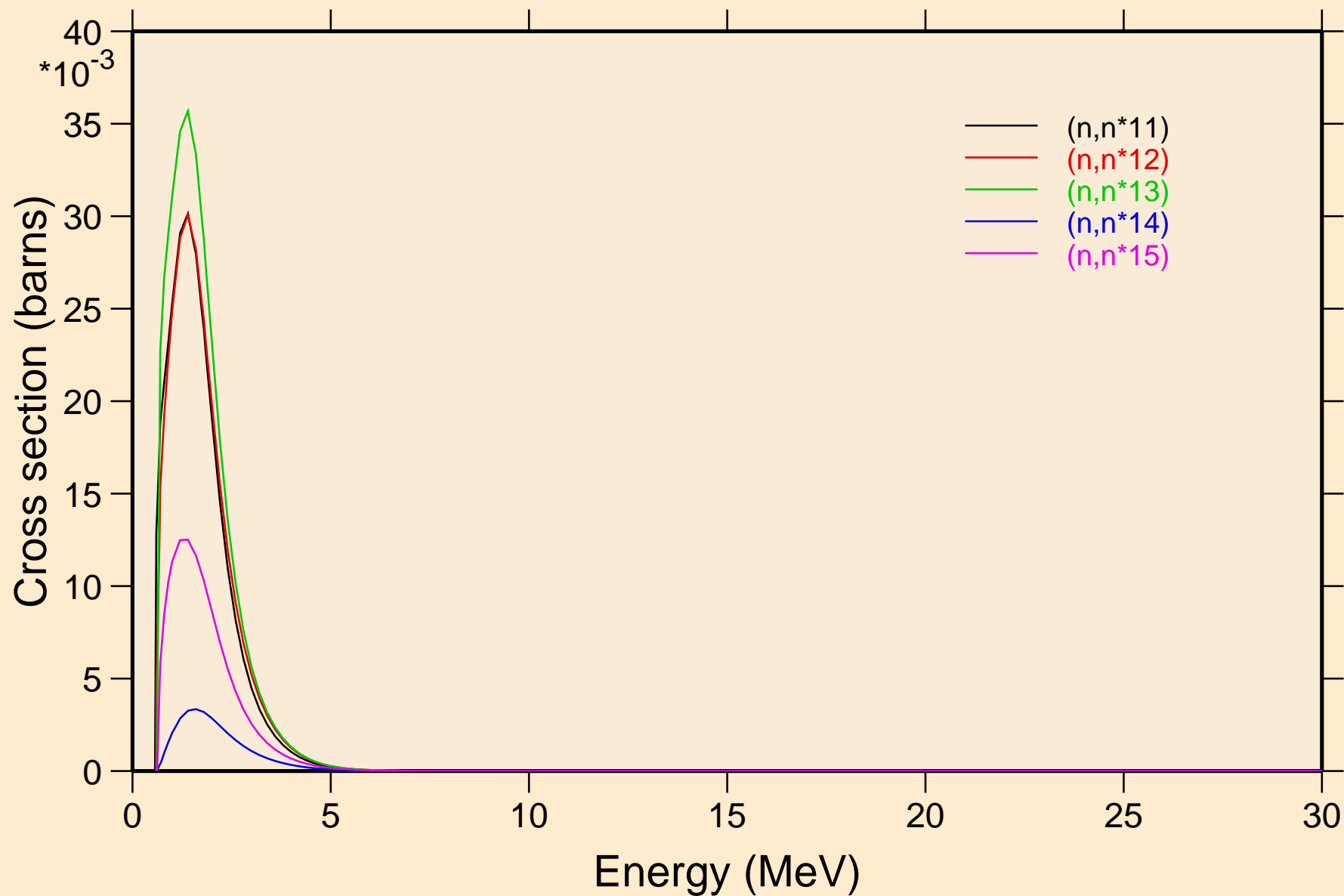
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Inelastic levels



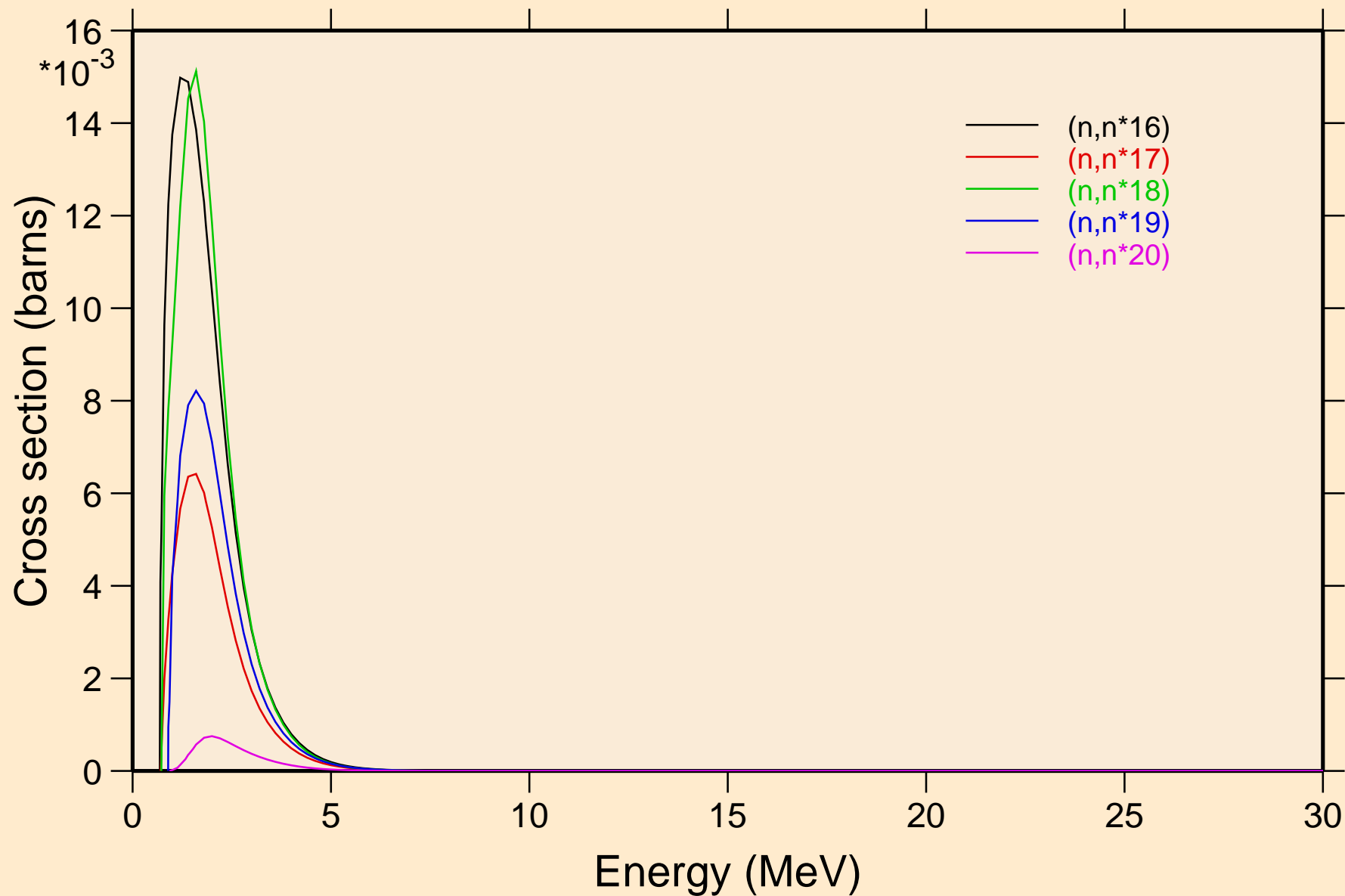
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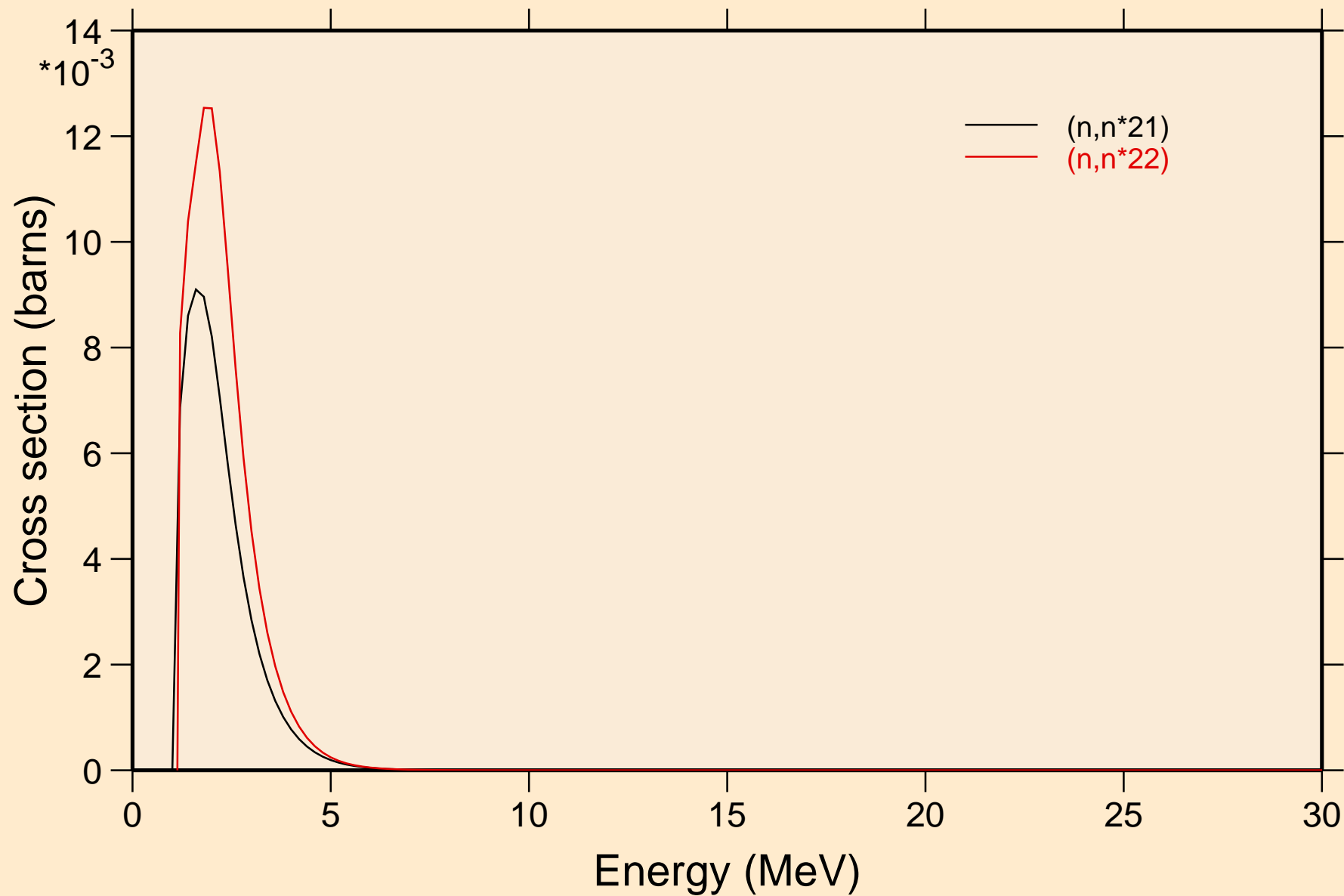
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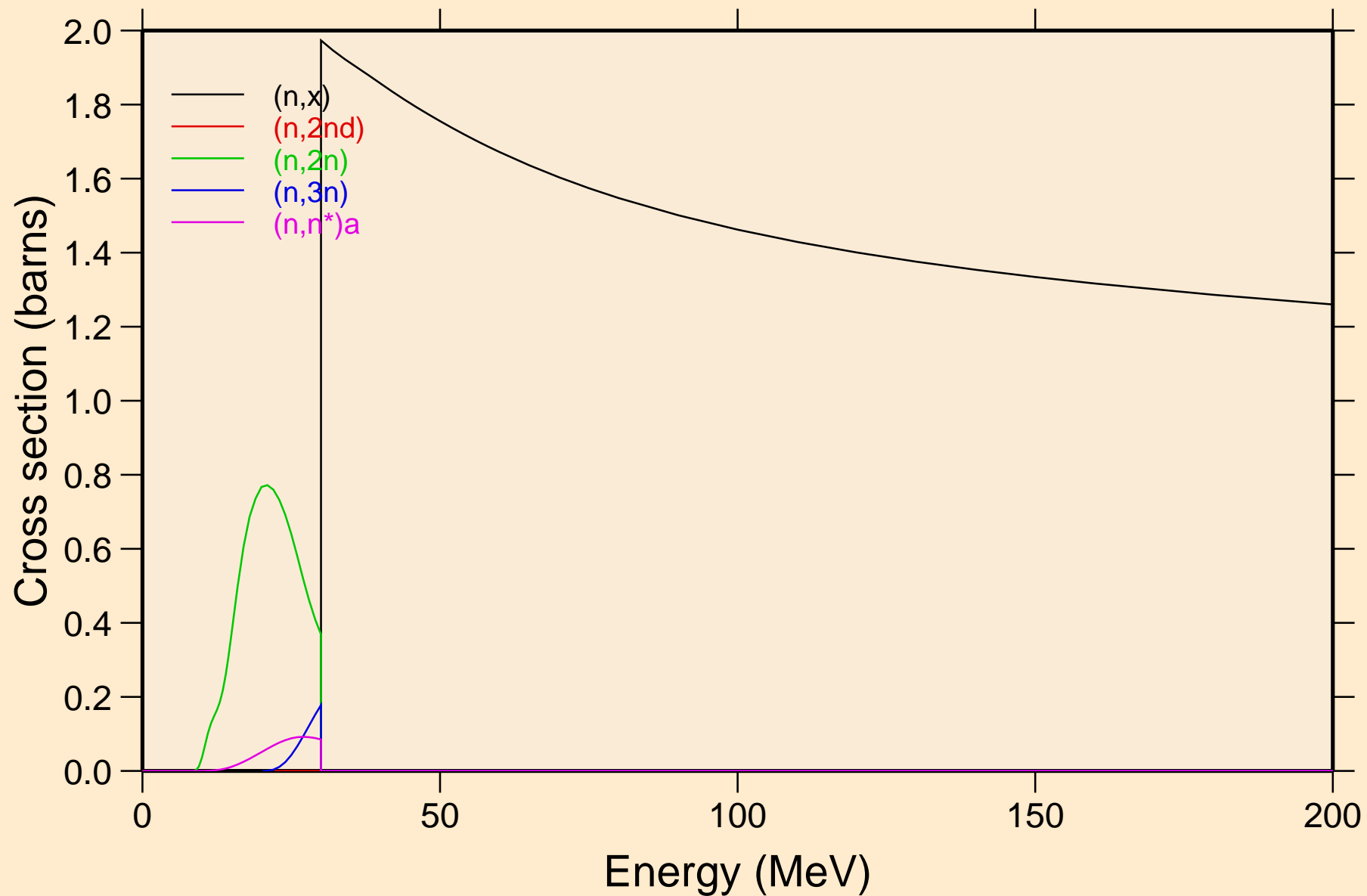
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Inelastic levels



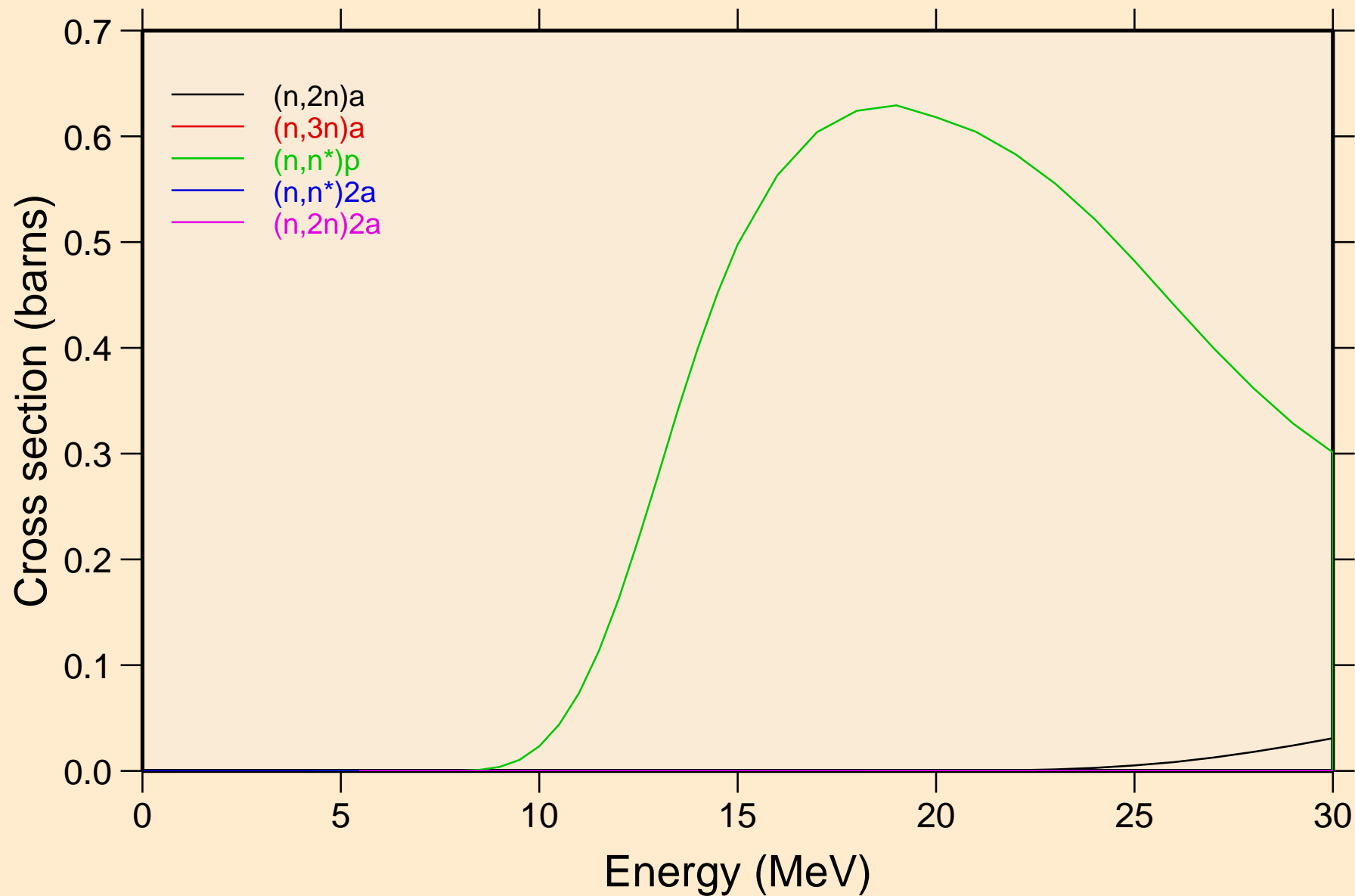
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Inelastic levels



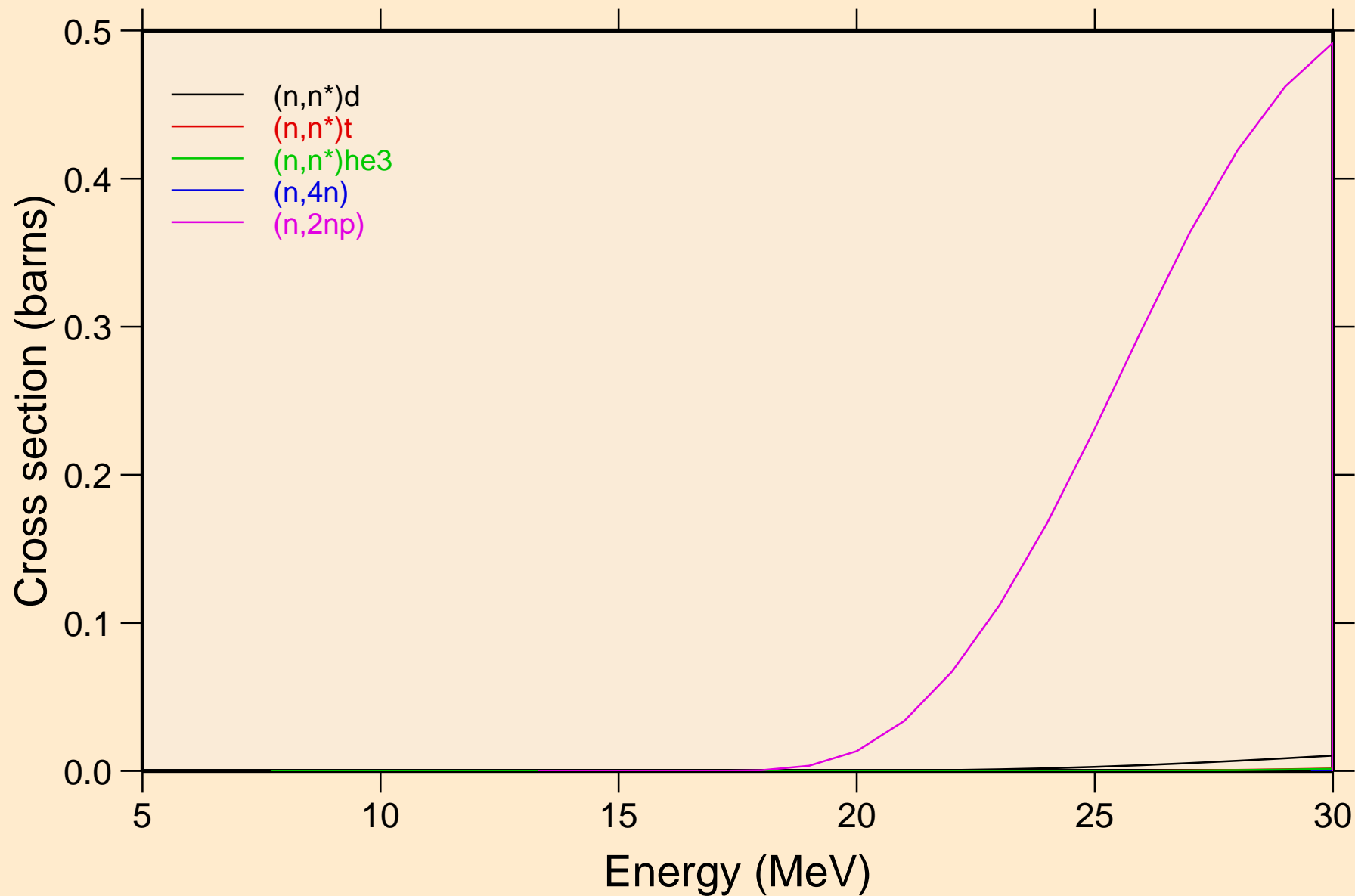
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Threshold reactions



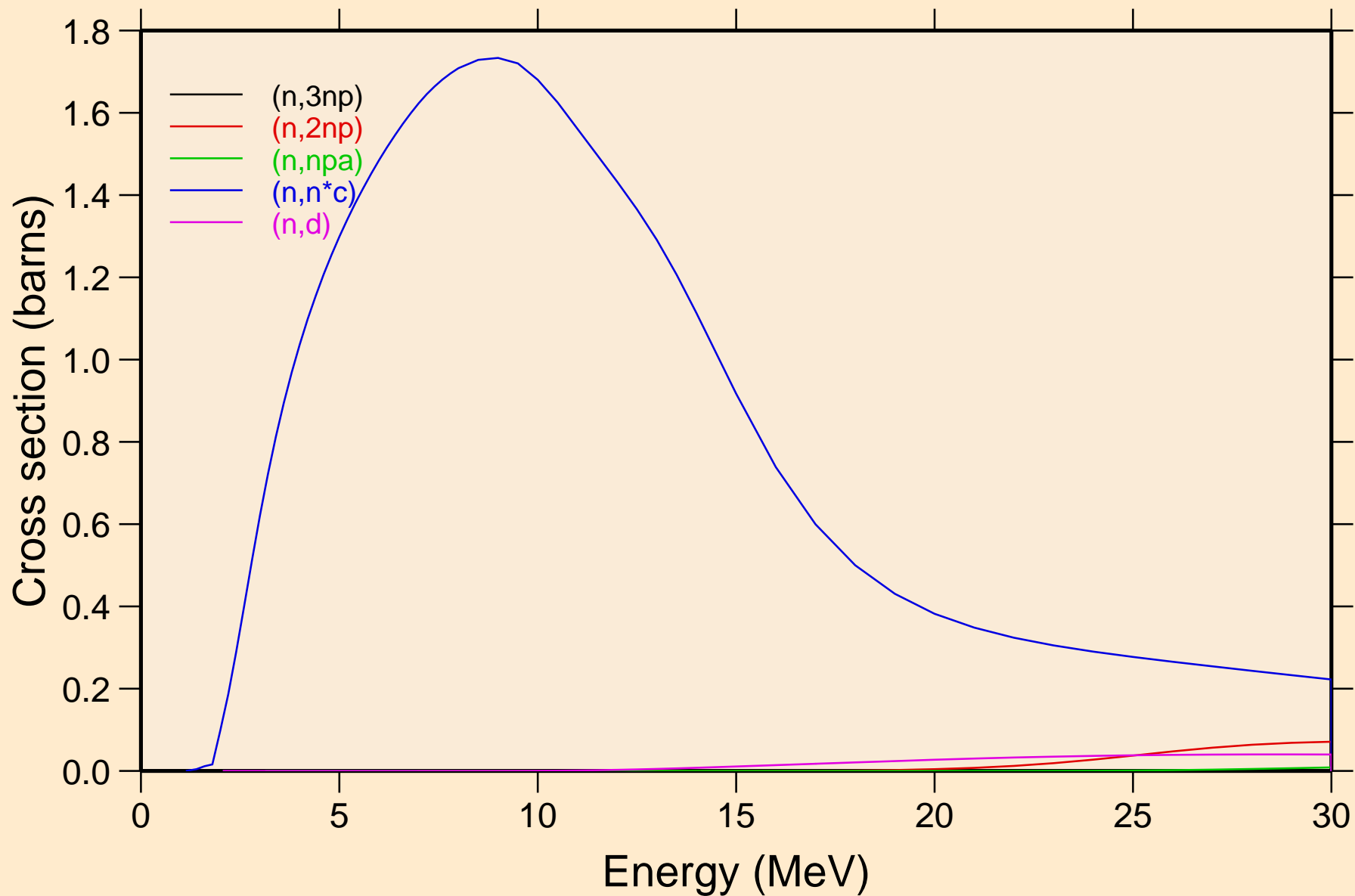
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Threshold reactions



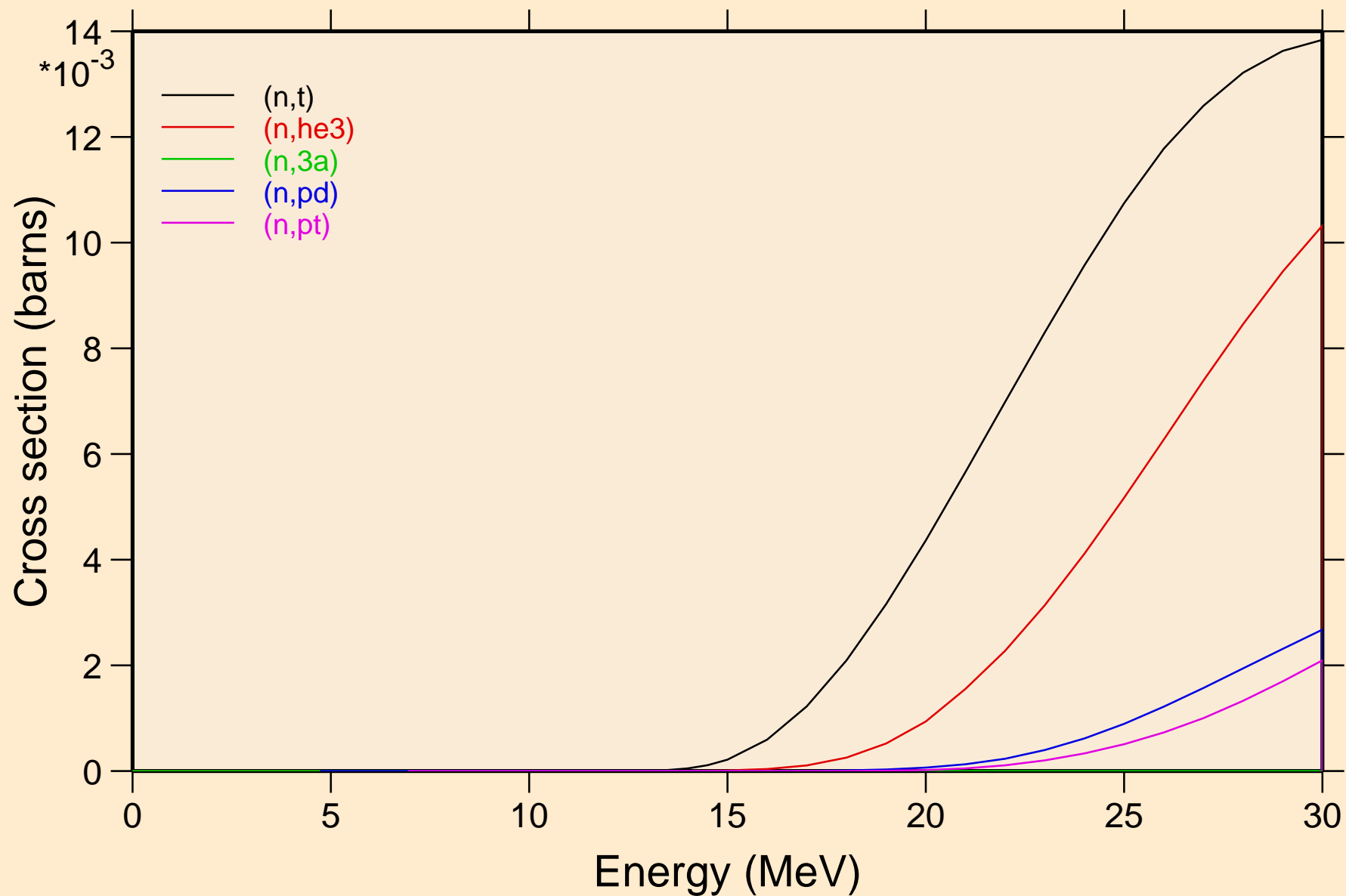
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Threshold reactions



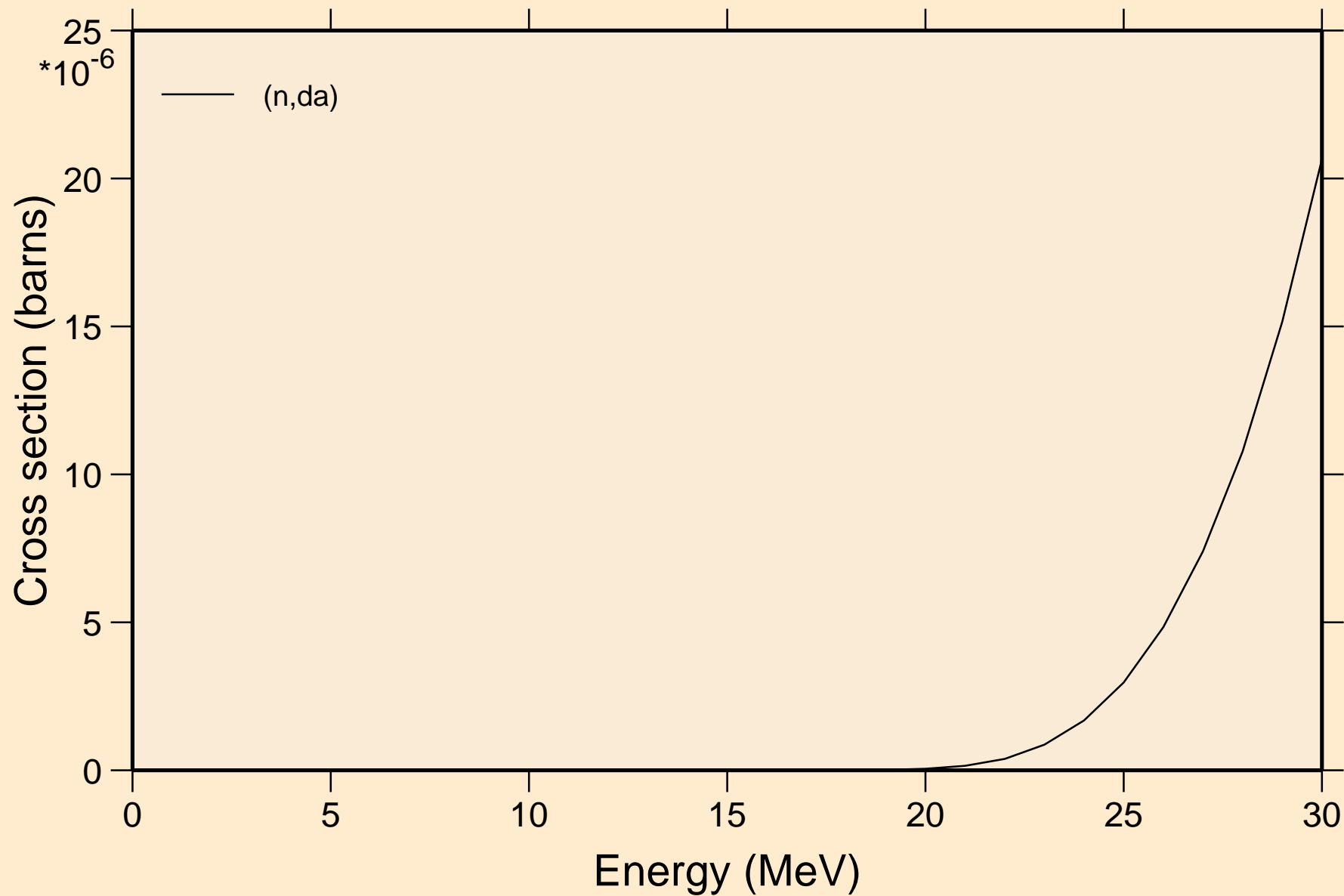
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Threshold reactions



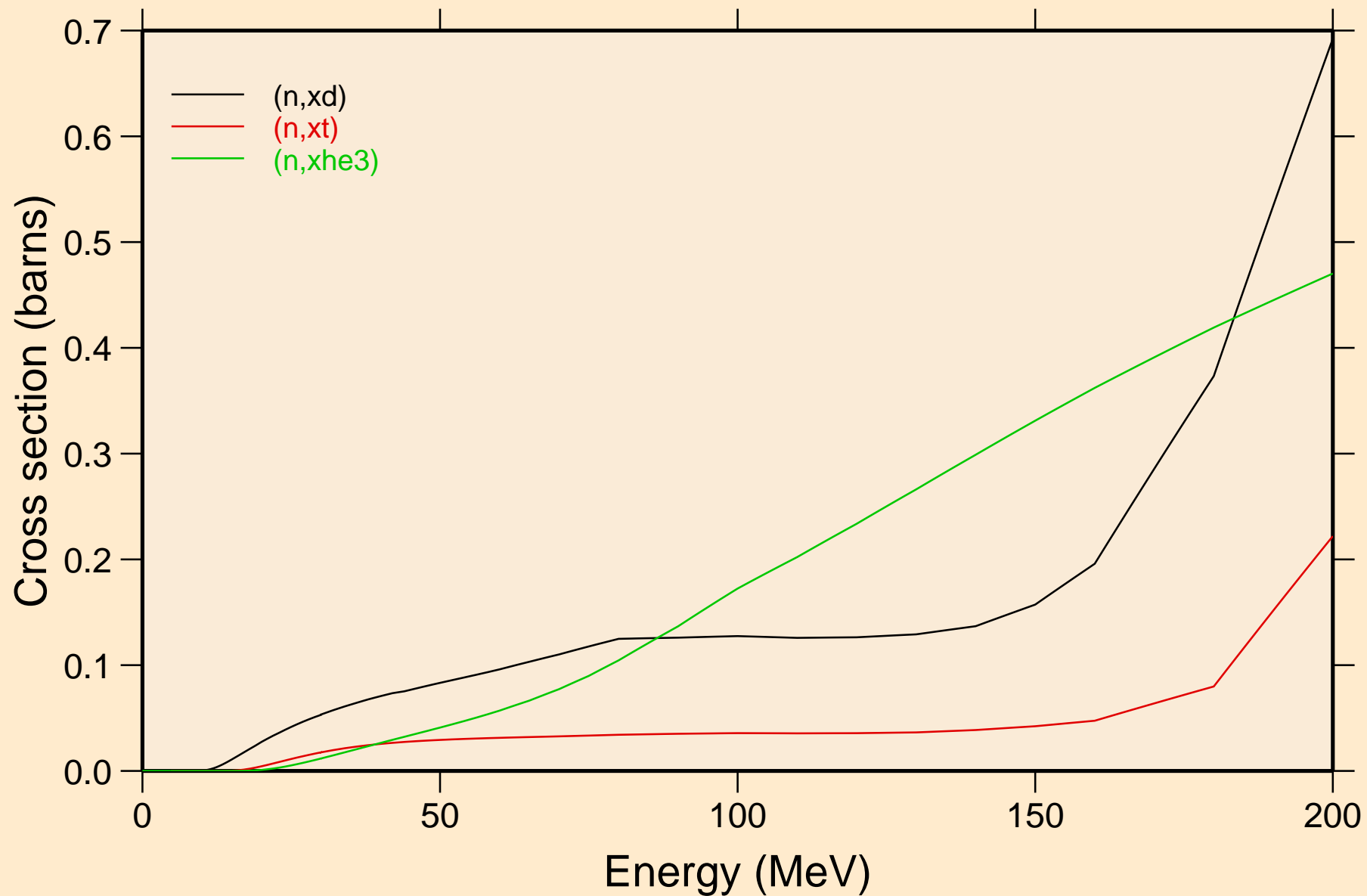
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Threshold reactions



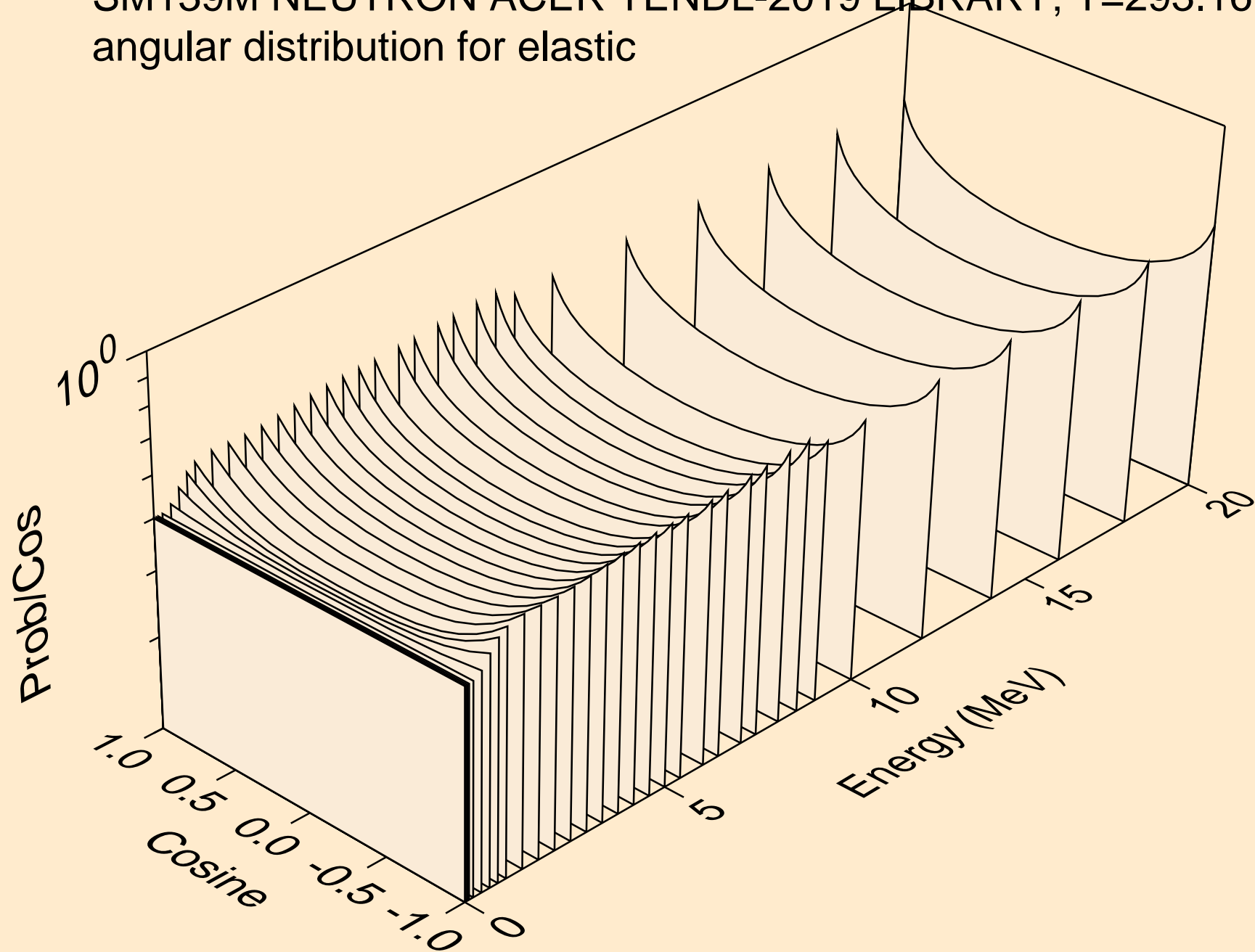
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Threshold reactions



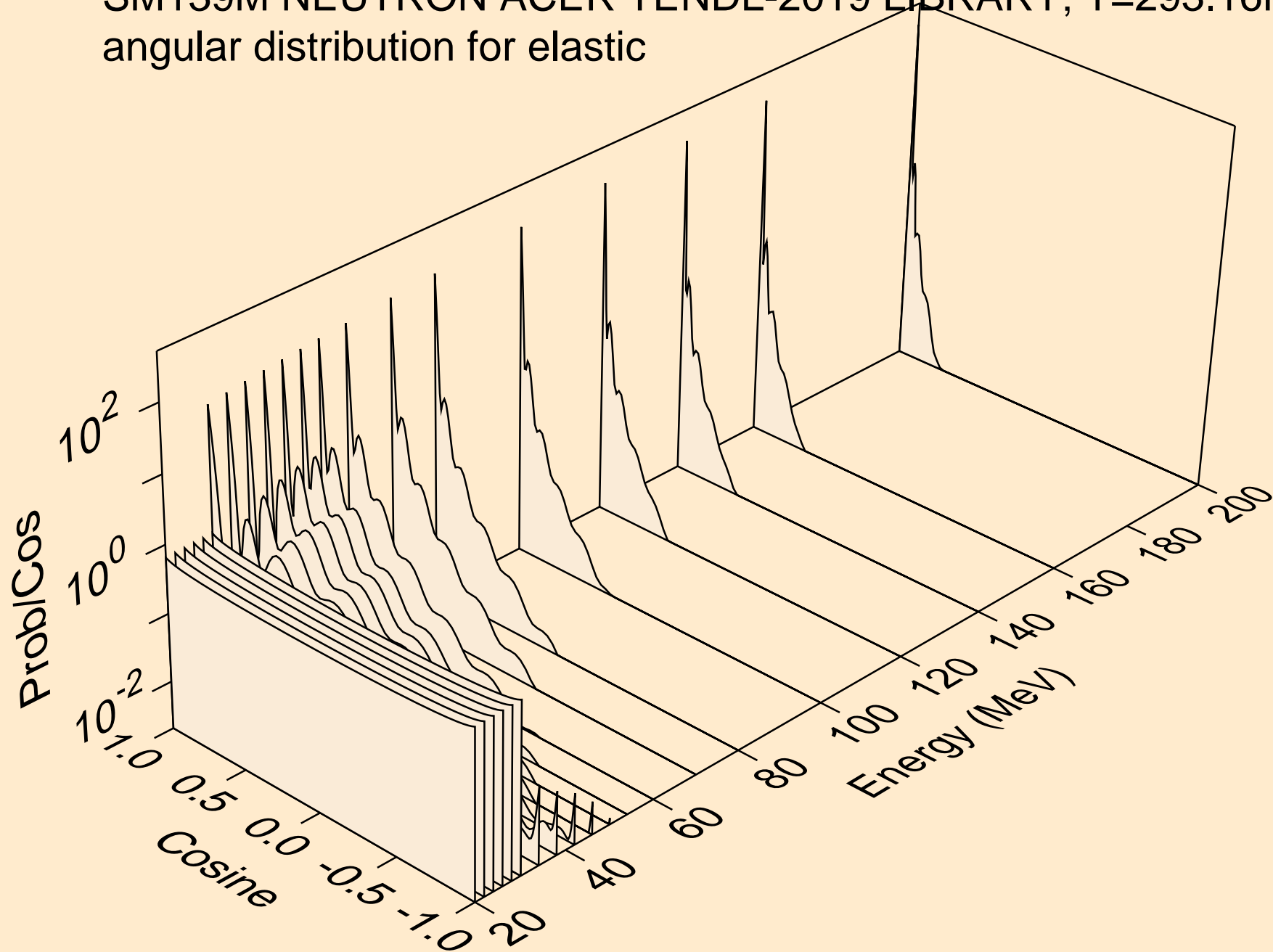
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Threshold reactions



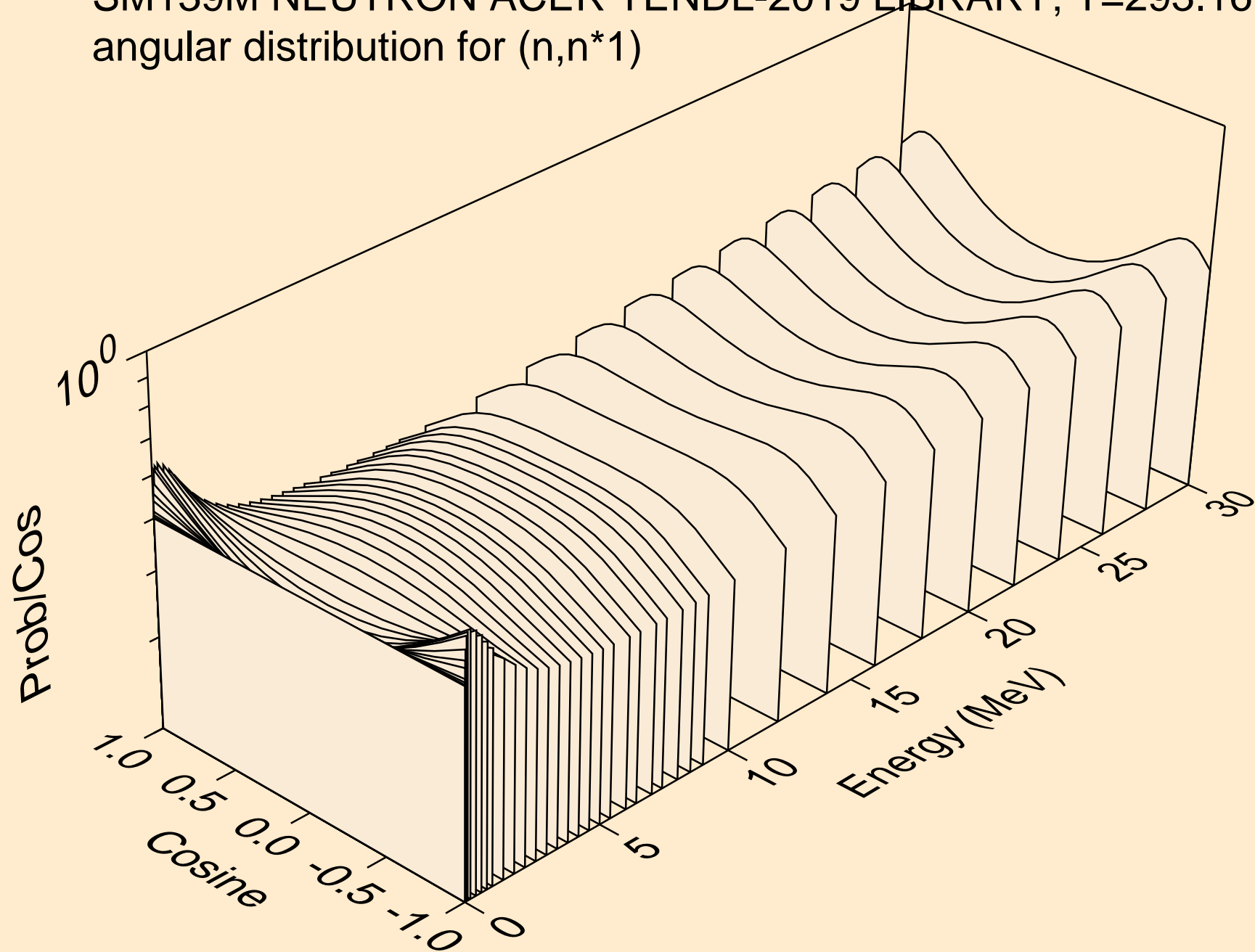
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angular distribution for elastic



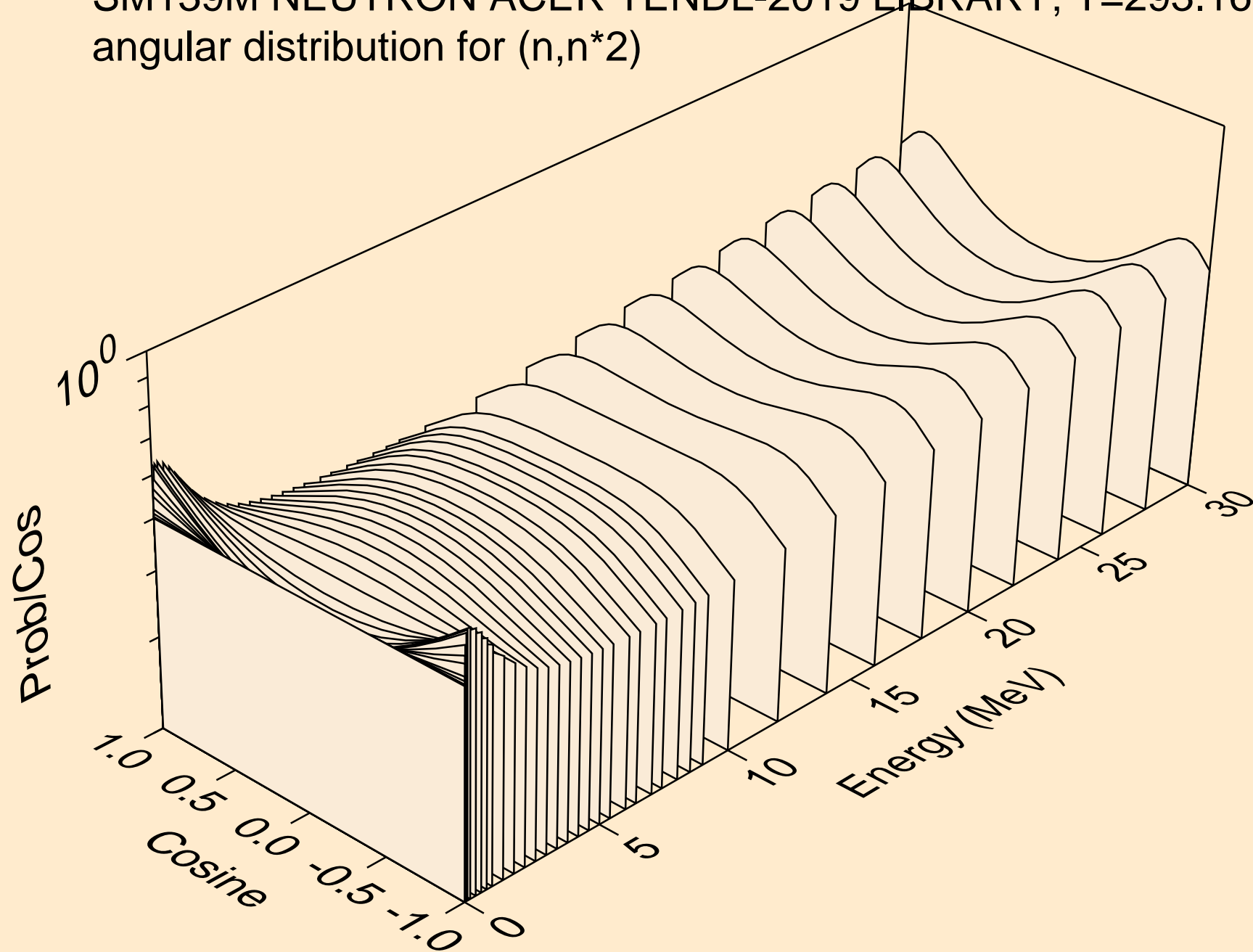
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angular distribution for elastic



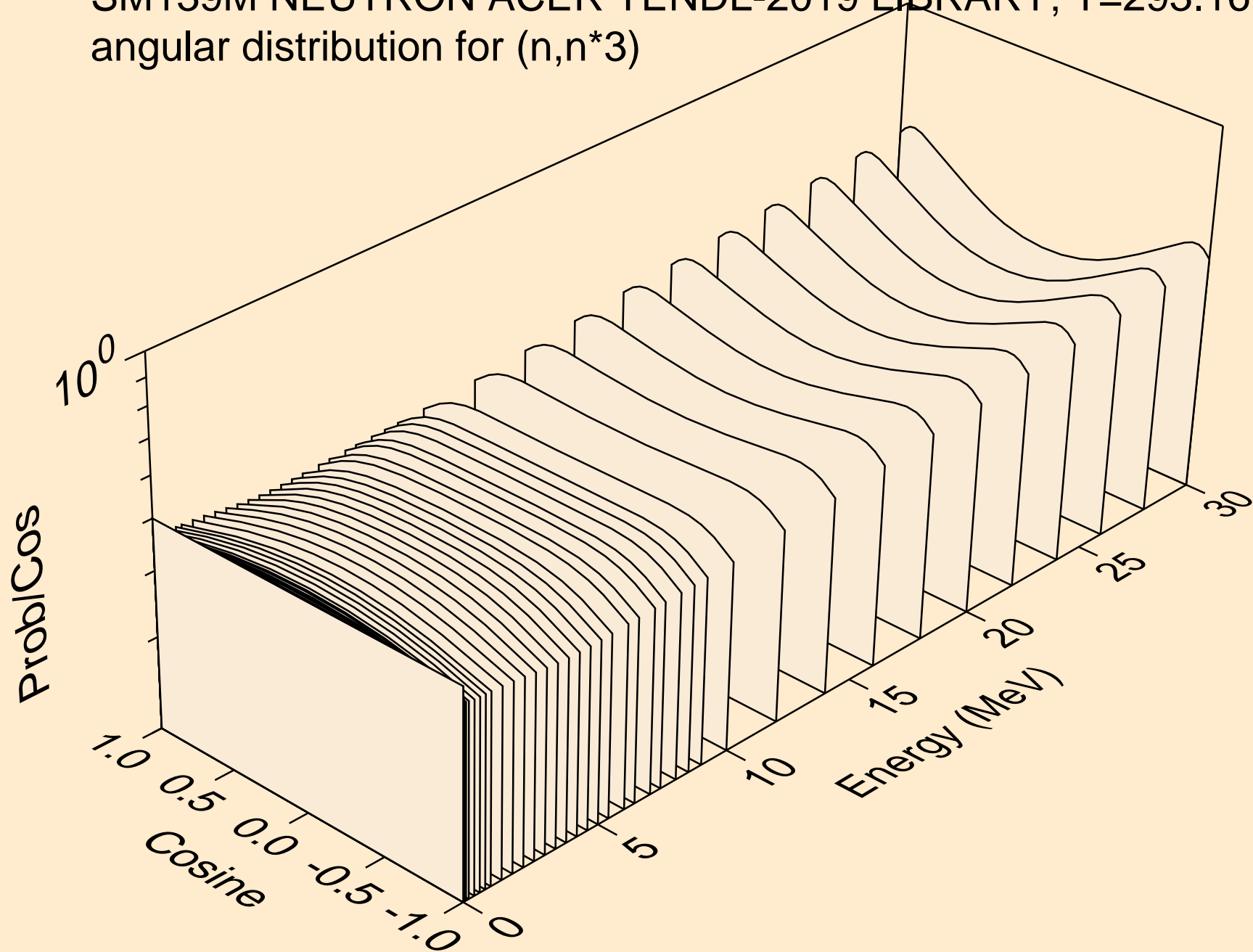
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angular distribution for (n,n*1)



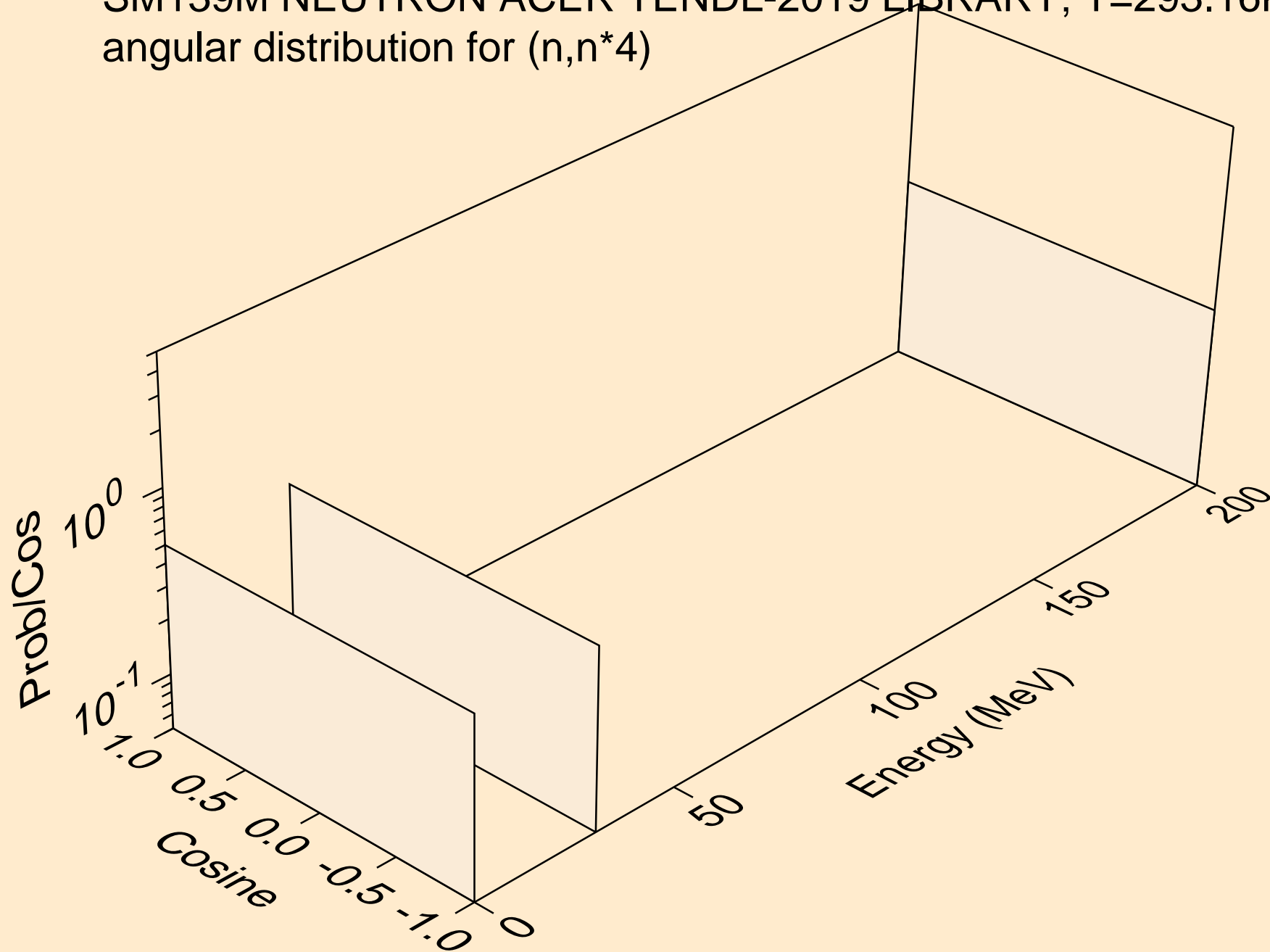
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angular distribution for (n,n*2)



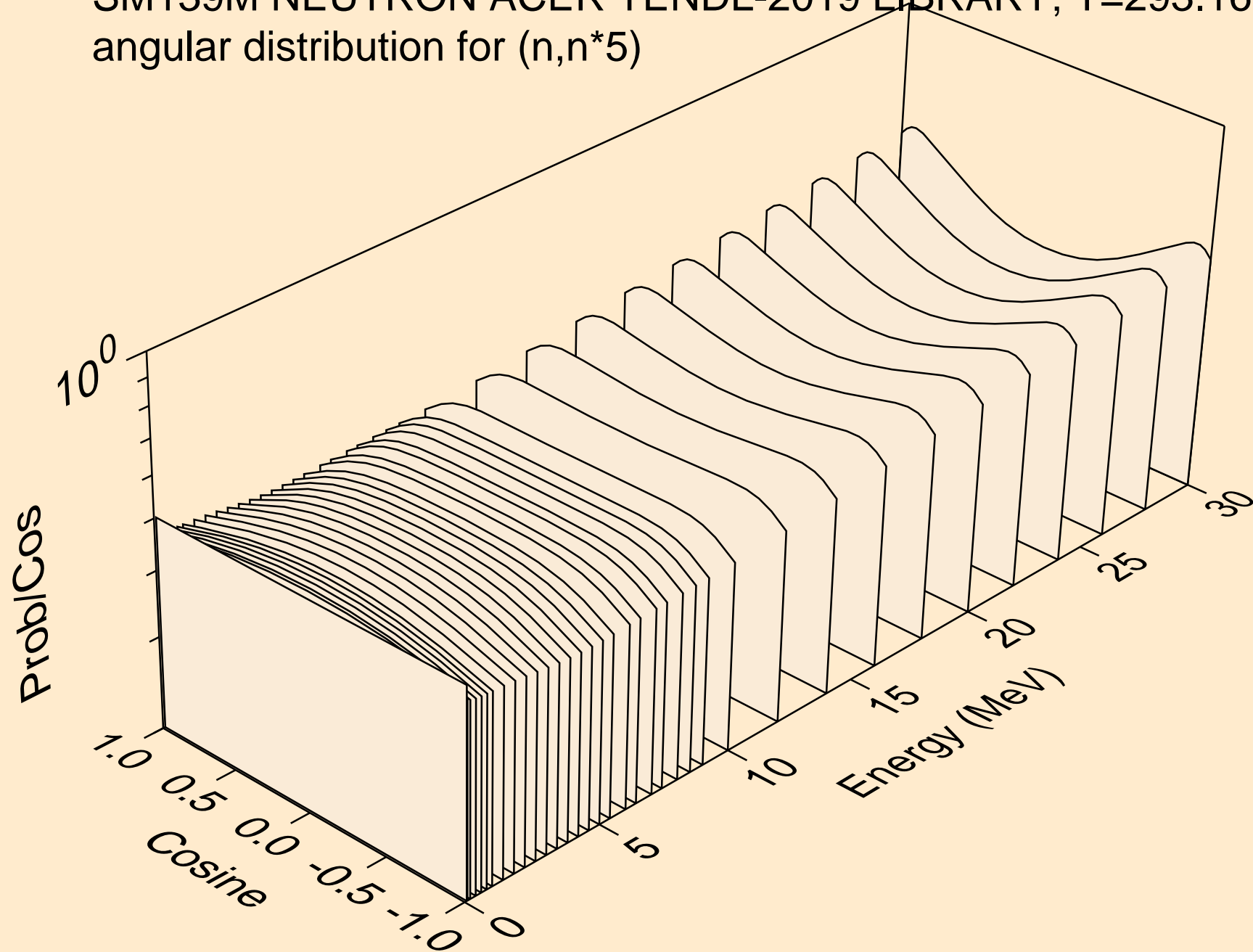
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angular distribution for (n,n*3)



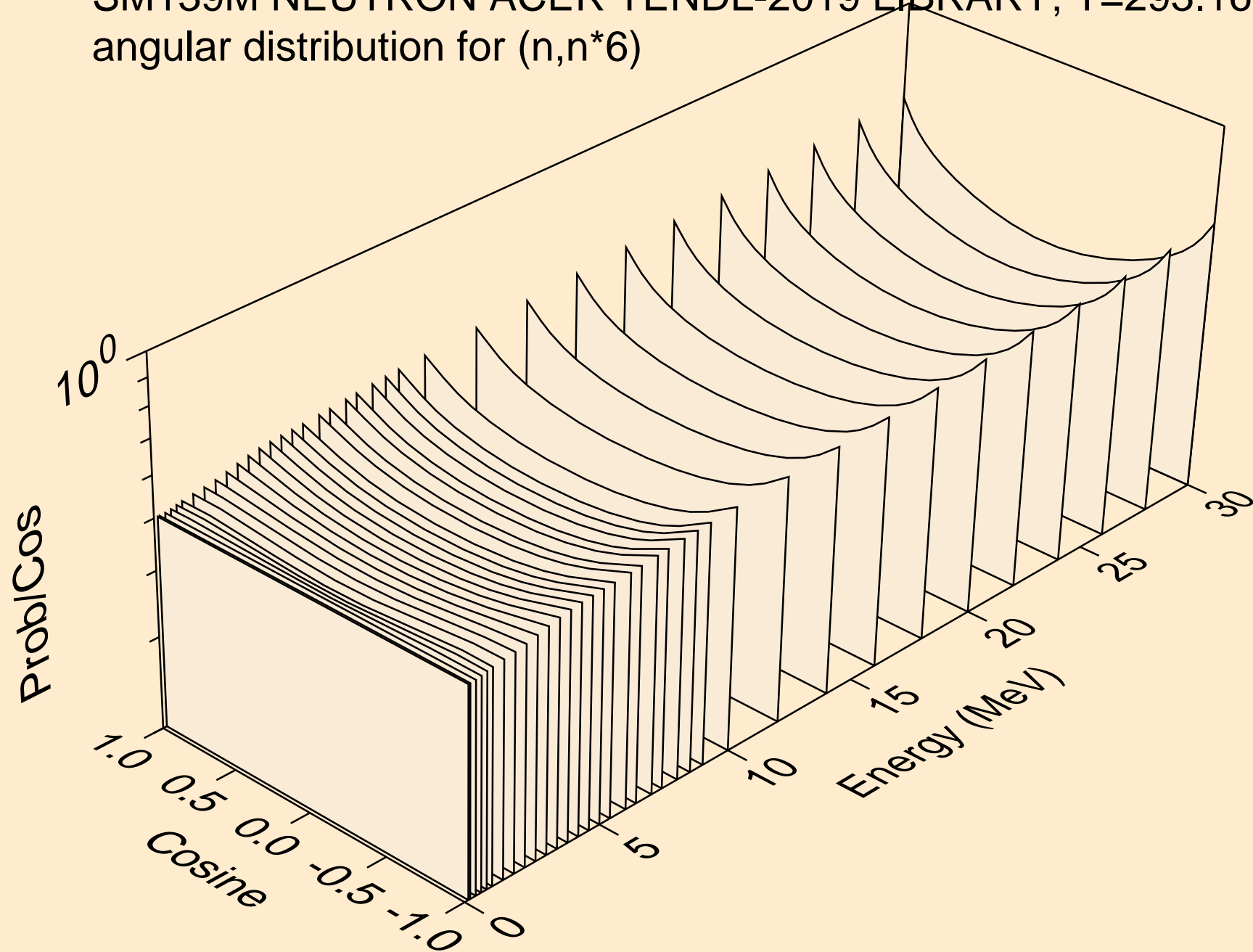
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angular distribution for (n,n*4)



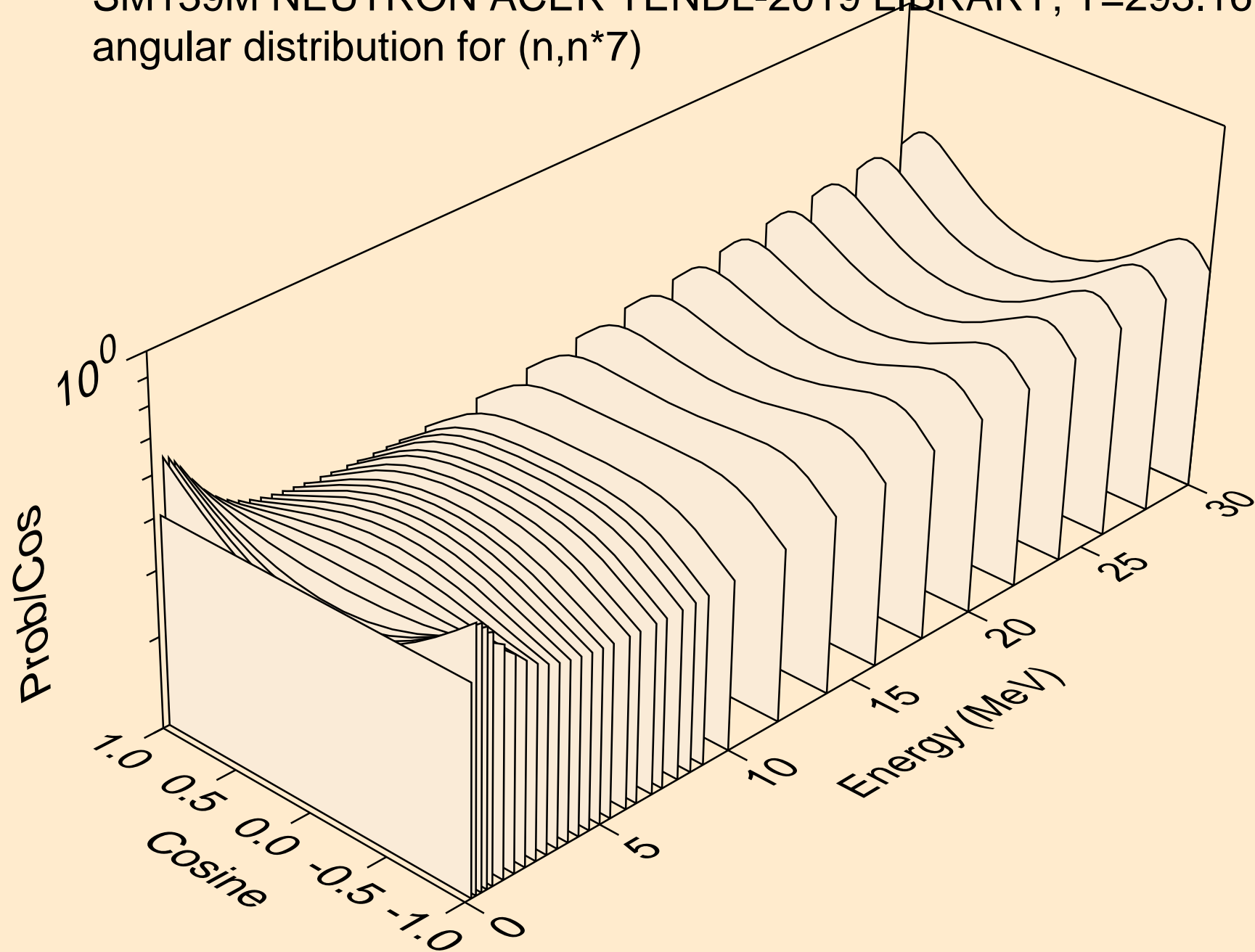
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angular distribution for (n,n*5)



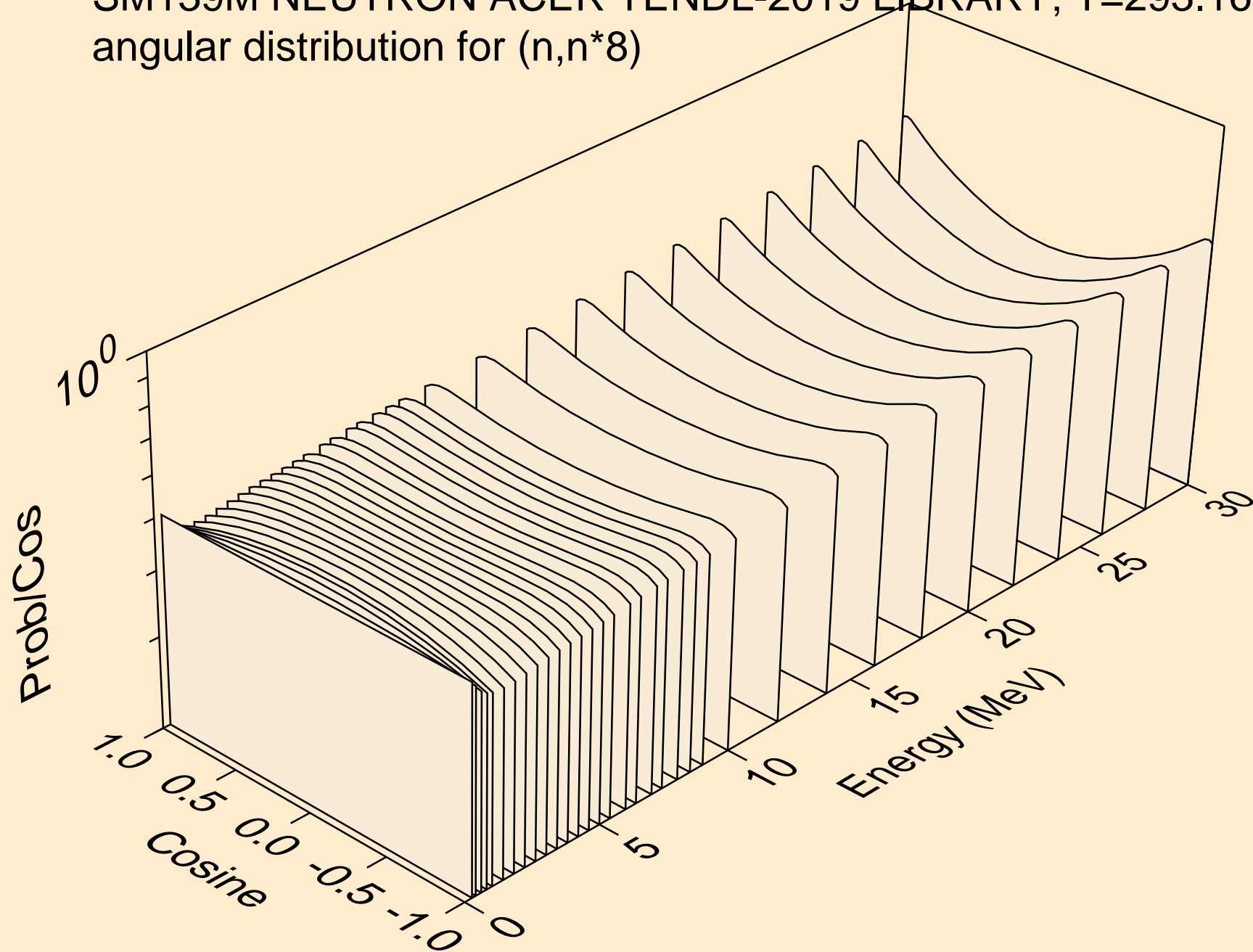
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angular distribution for (n,n*6)



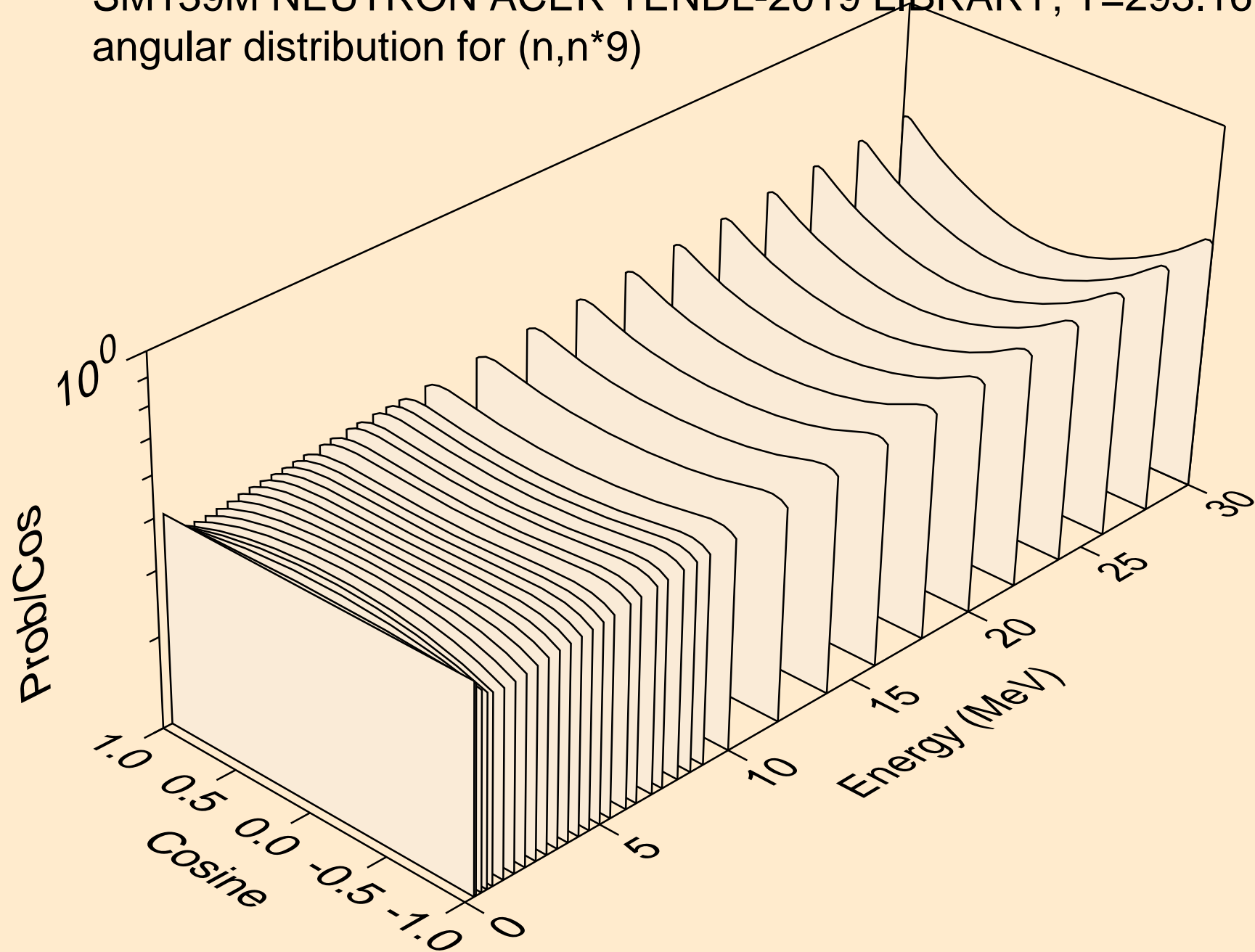
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angular distribution for (n,n*7)



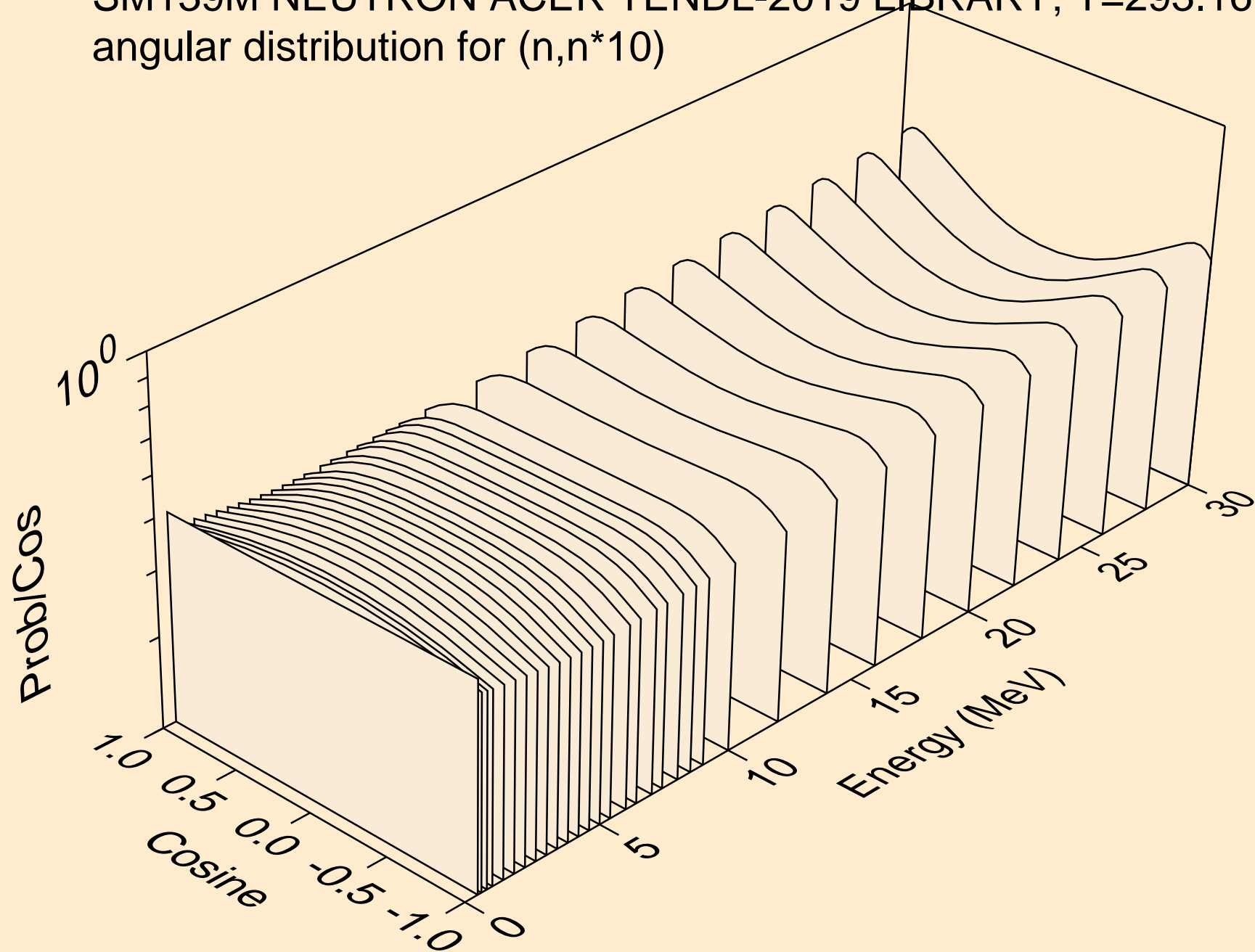
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angular distribution for (n,n*8)



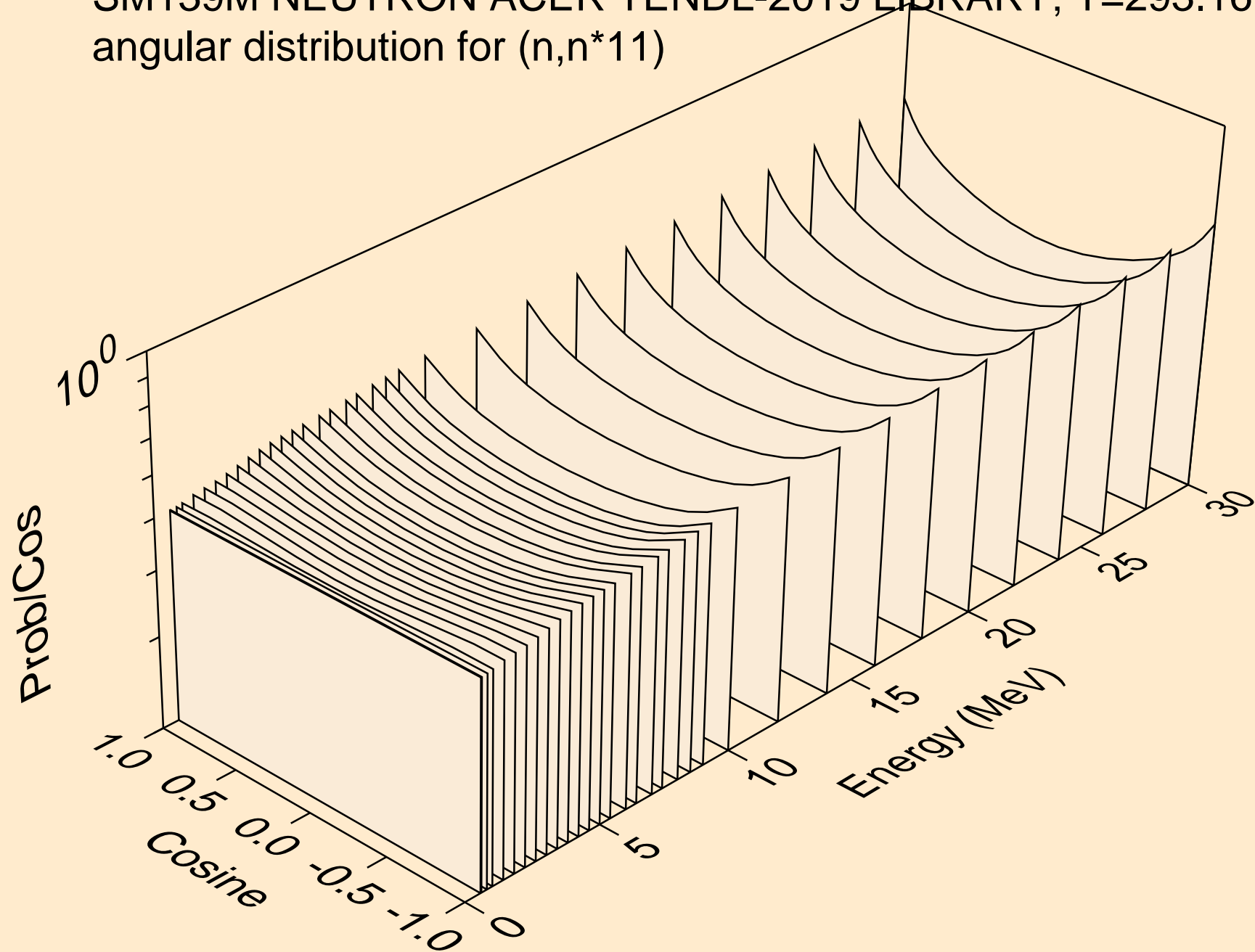
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angular distribution for (n,n*9)



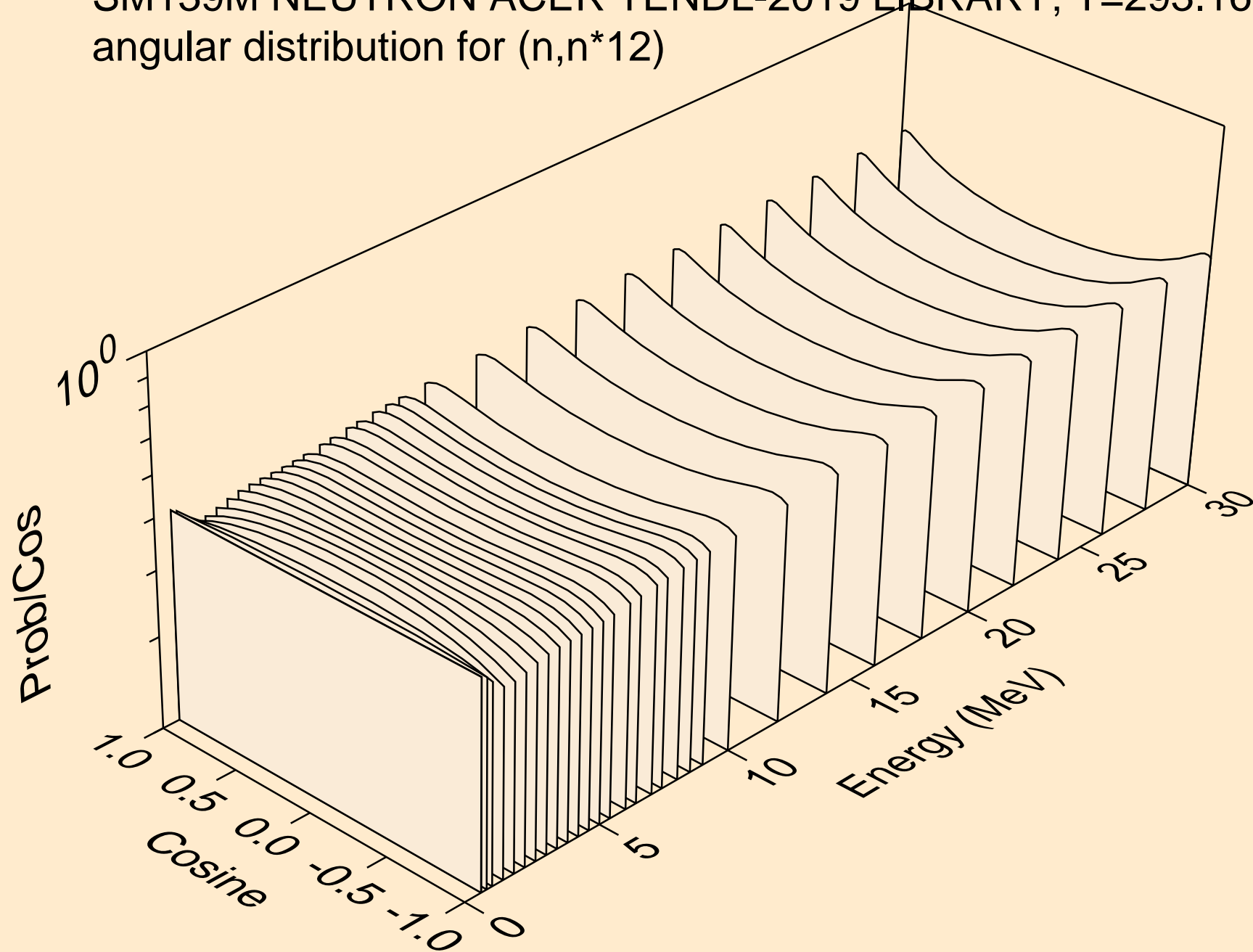
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angular distribution for (n,n*10)



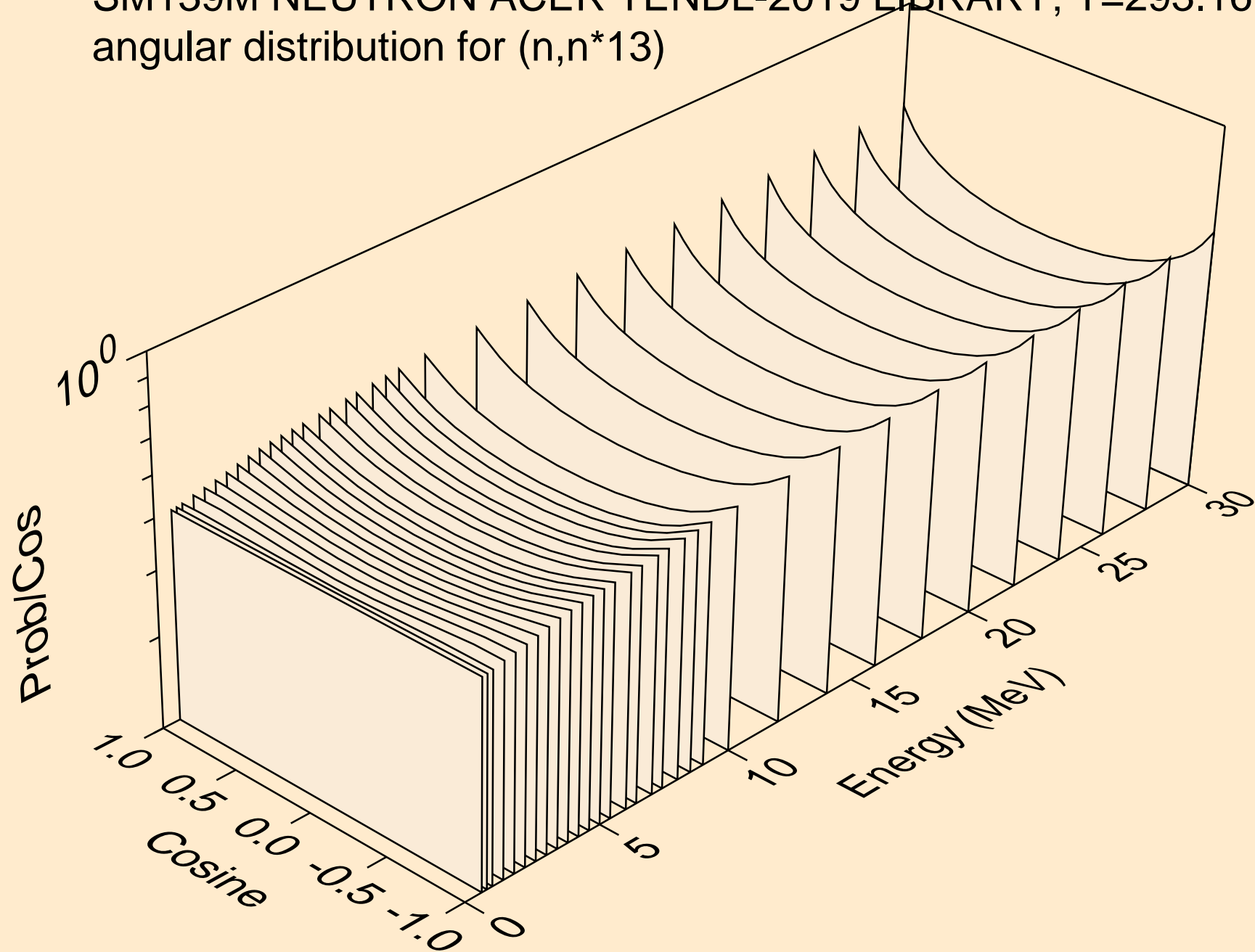
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angular distribution for (n,n*11)



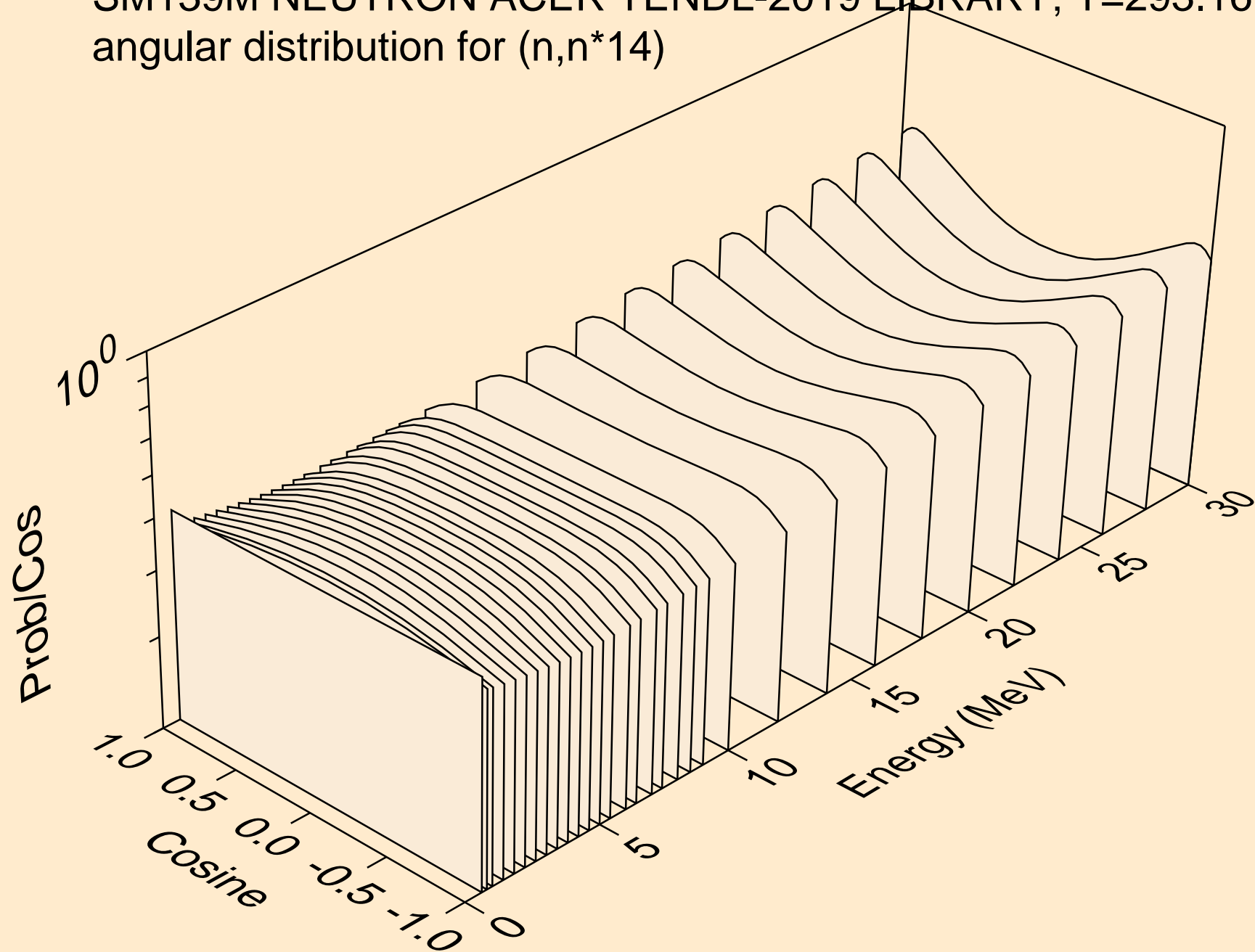
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angular distribution for (n,n*12)



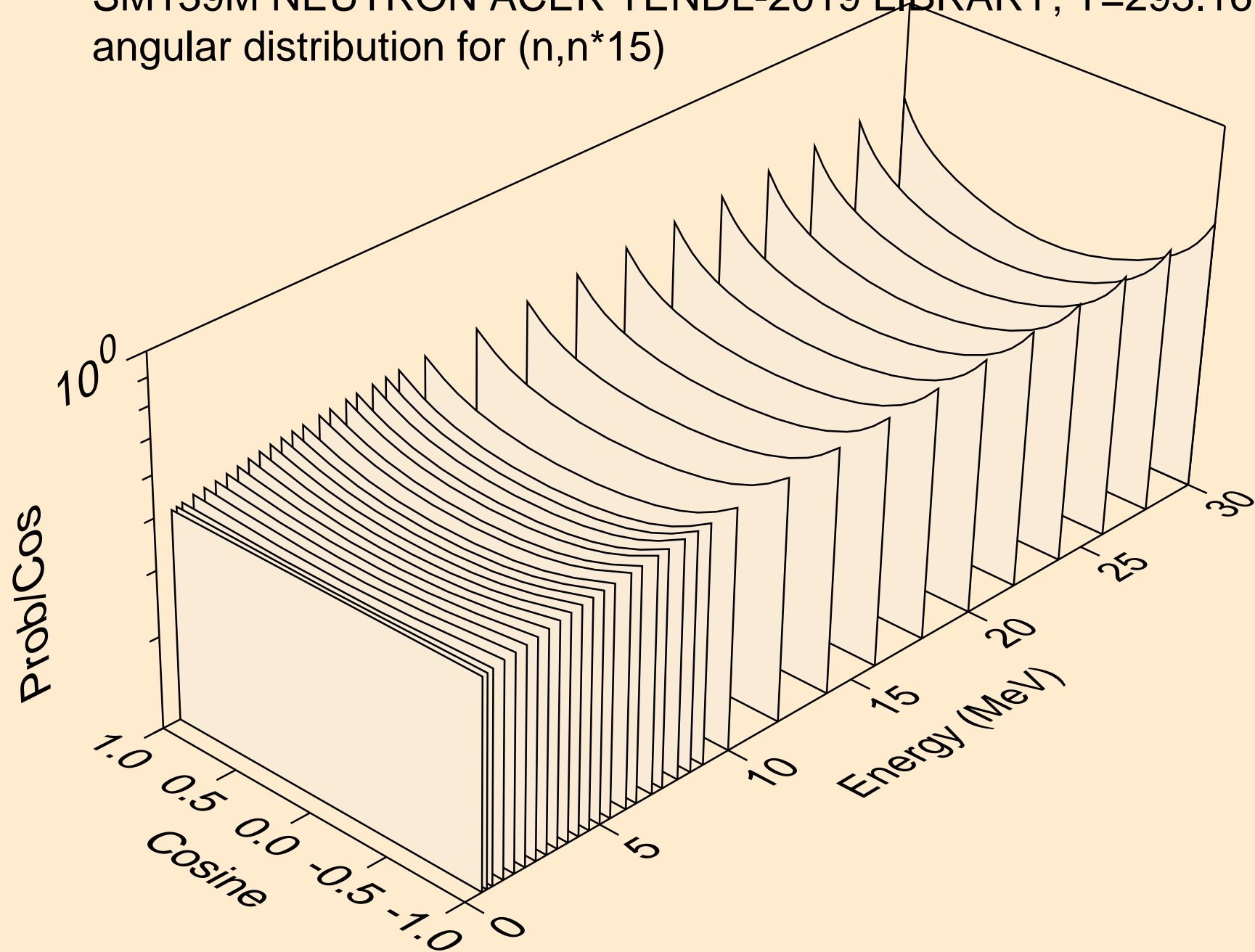
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angular distribution for (n,n*13)



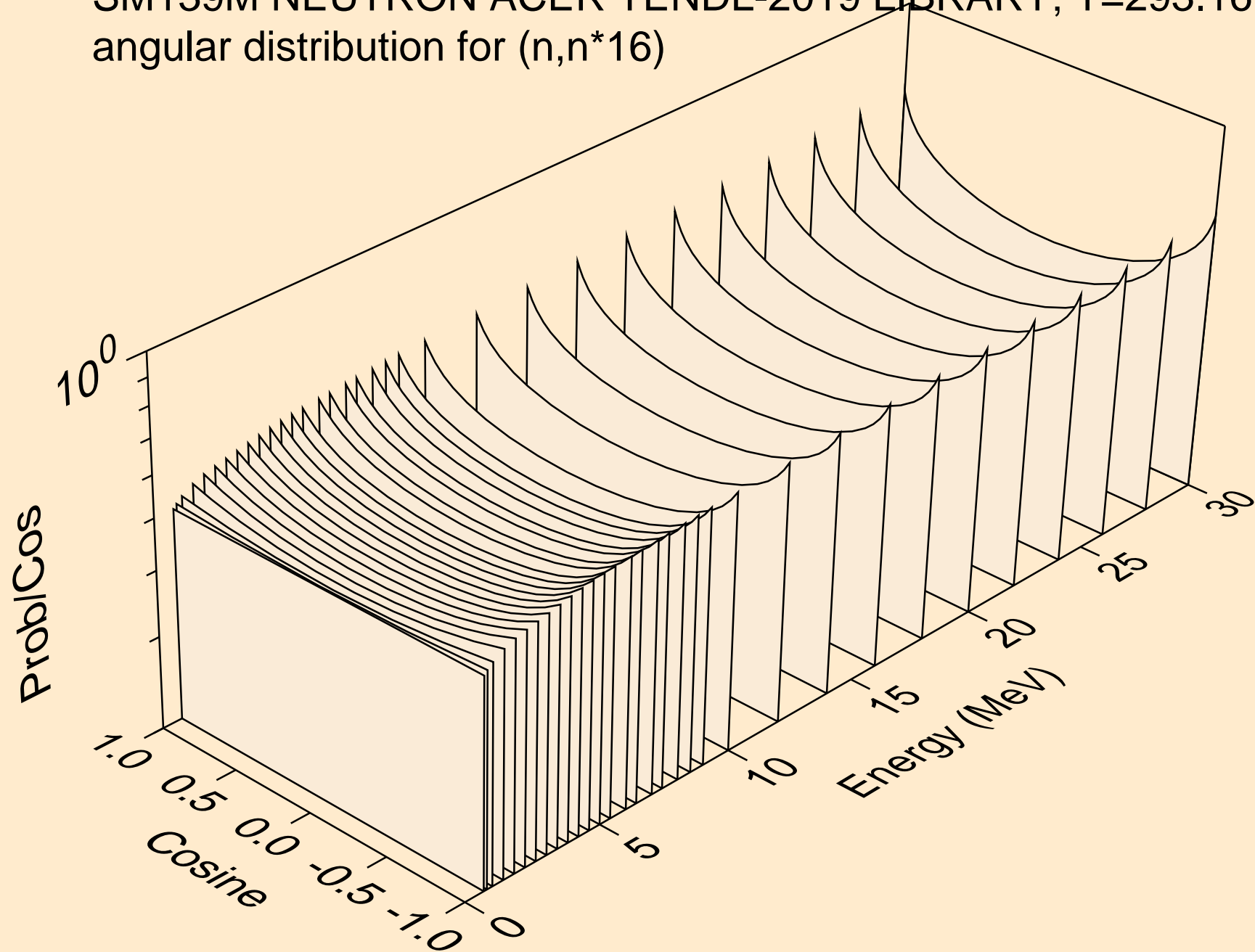
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angular distribution for (n,n*14)



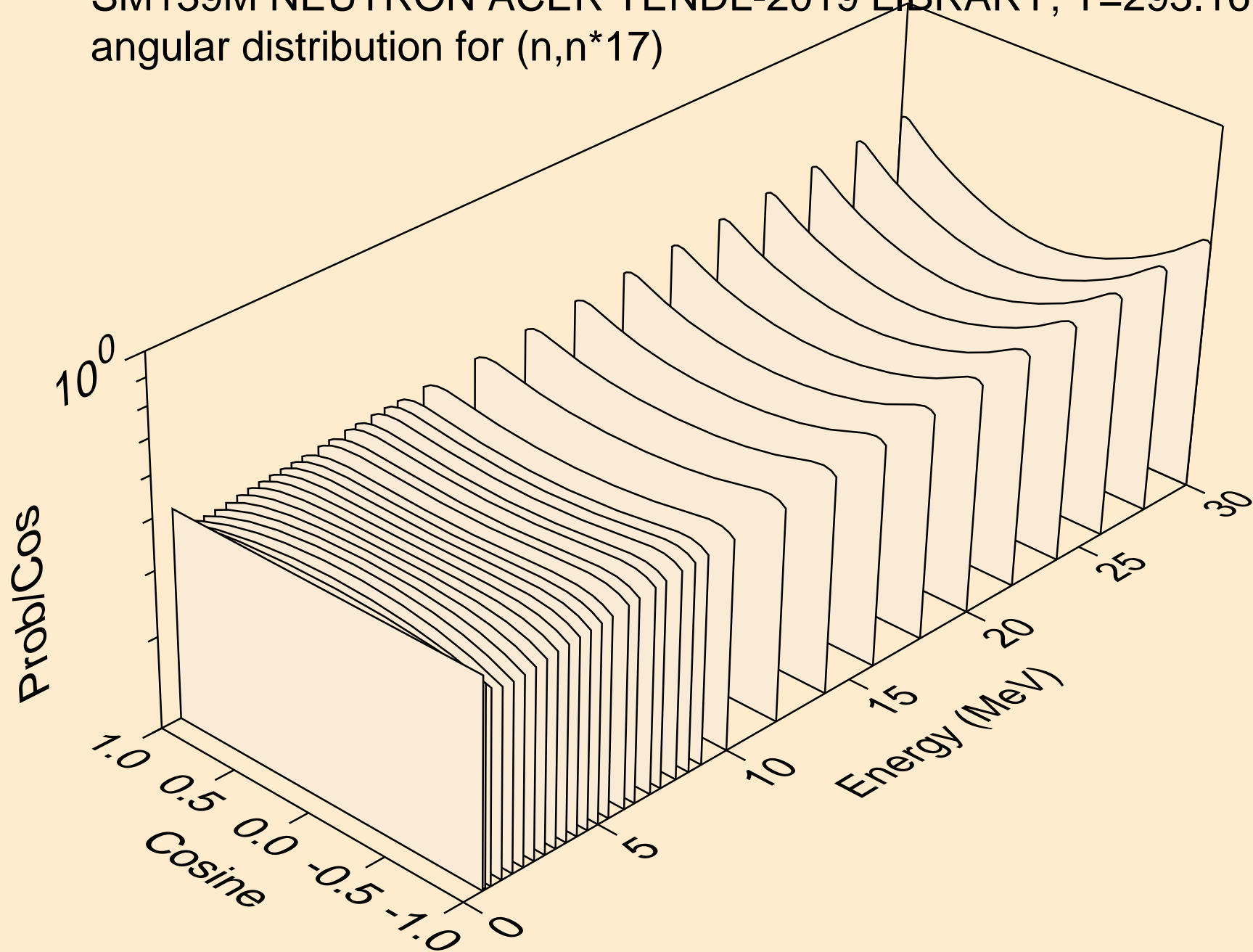
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angular distribution for (n,n*15)



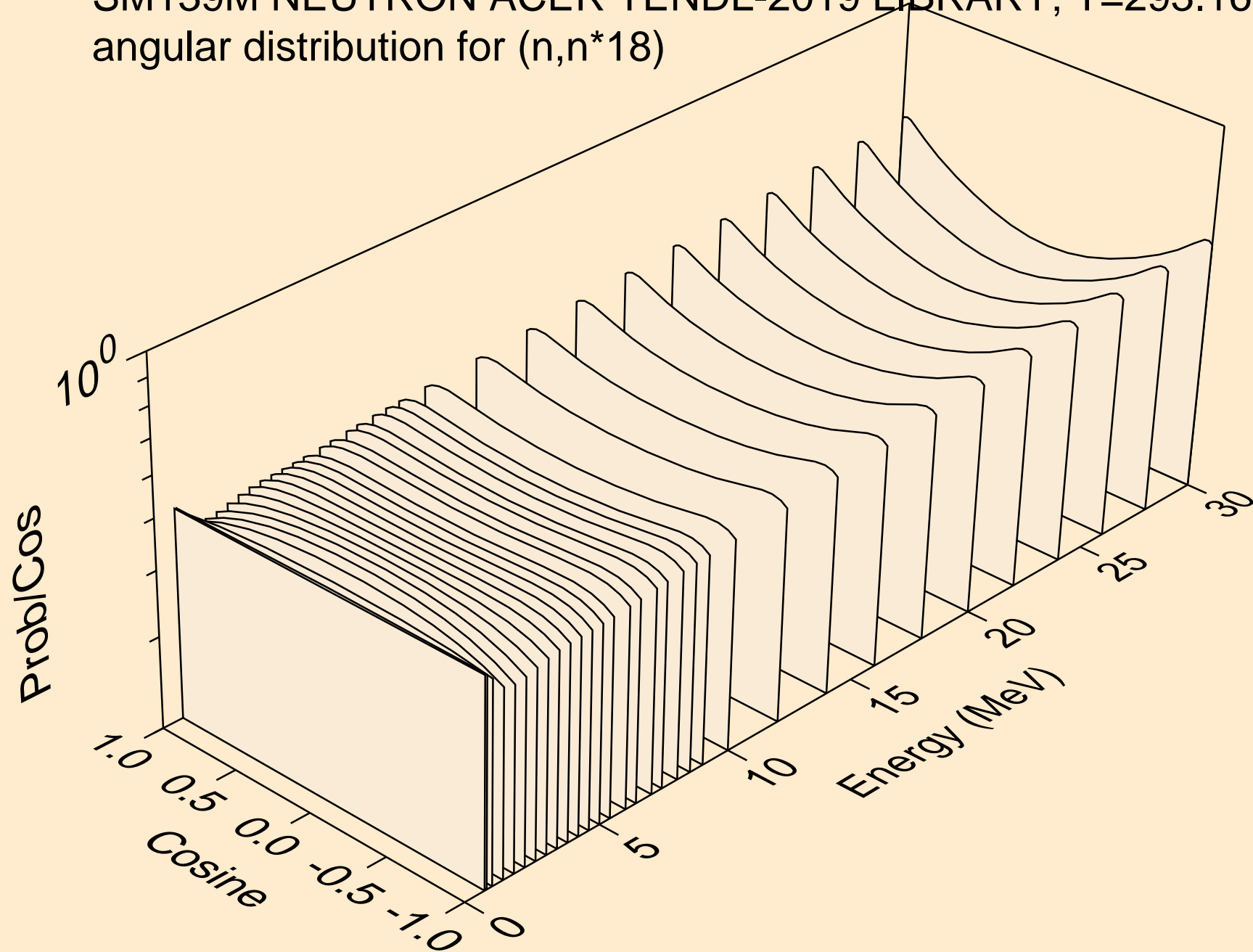
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angular distribution for (n,n*16)



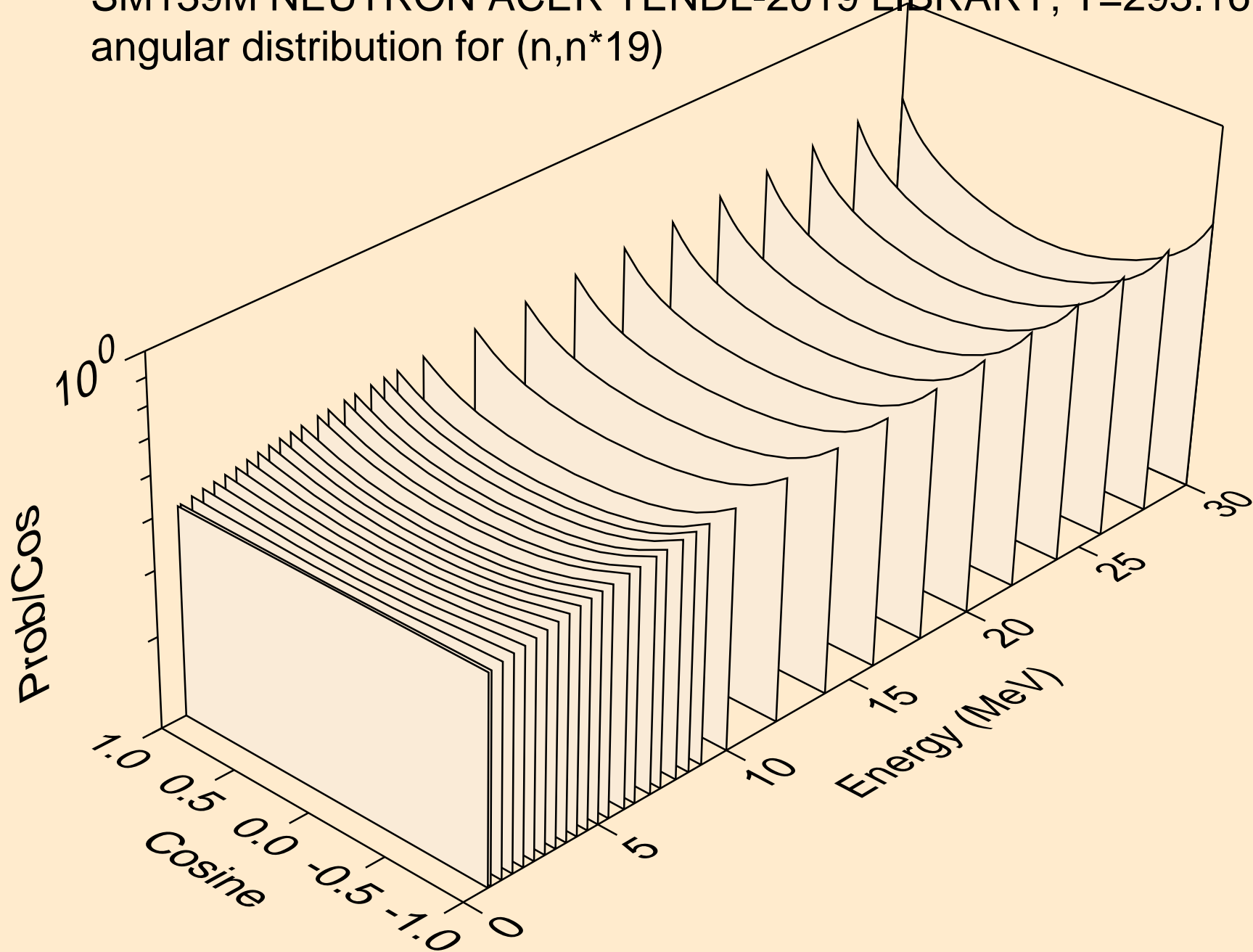
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angular distribution for (n,n*17)



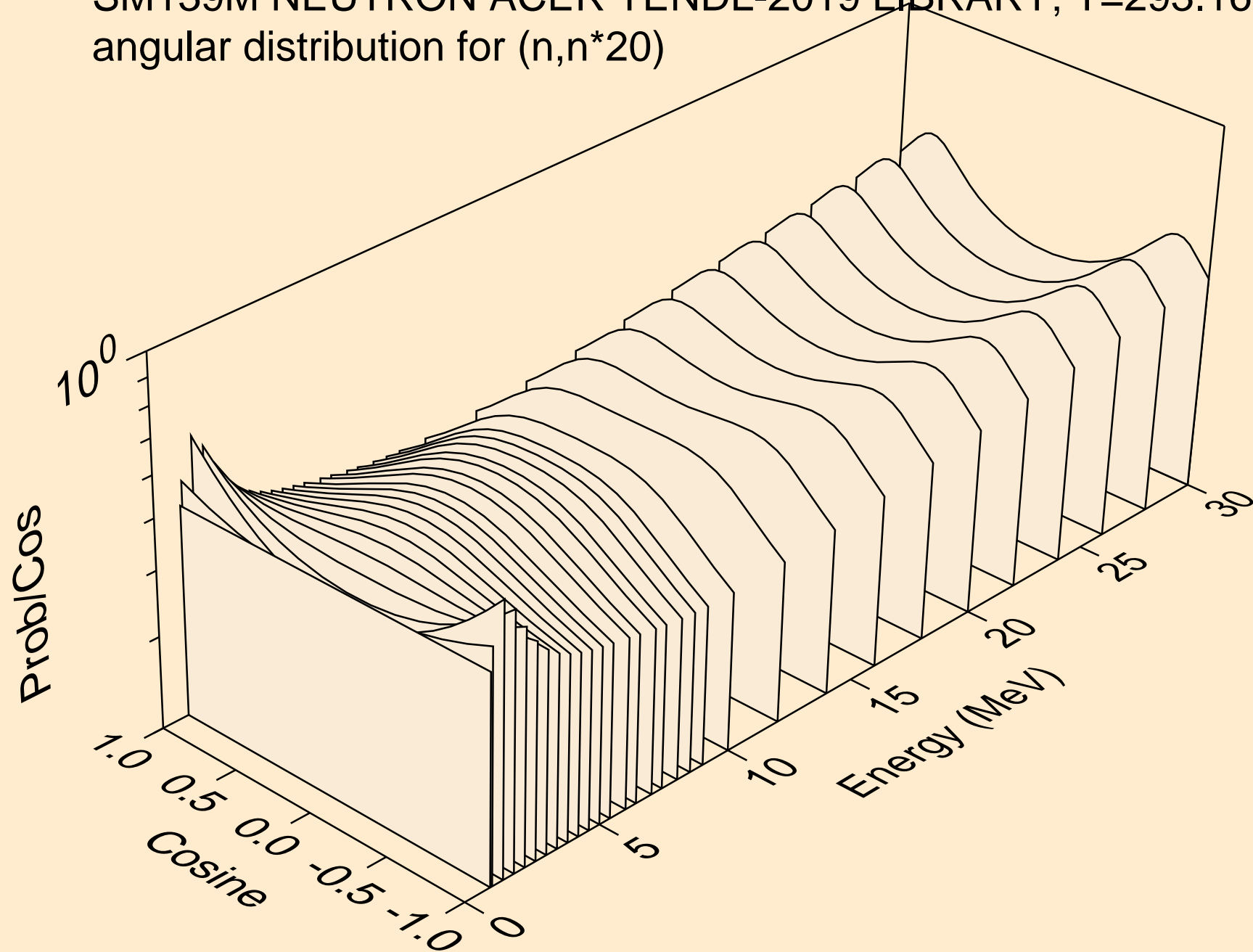
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angular distribution for (n,n*18)



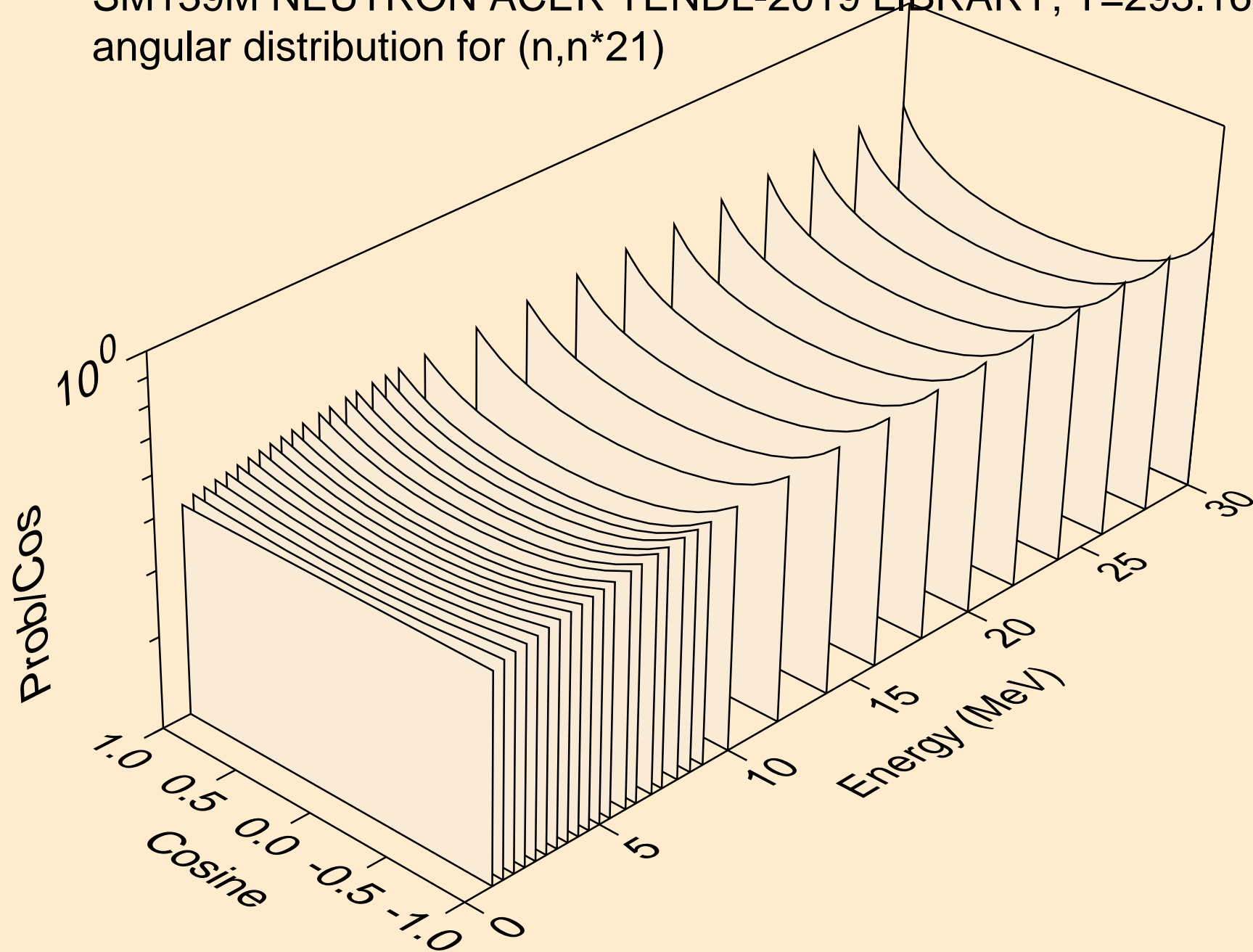
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angular distribution for (n,n*19)



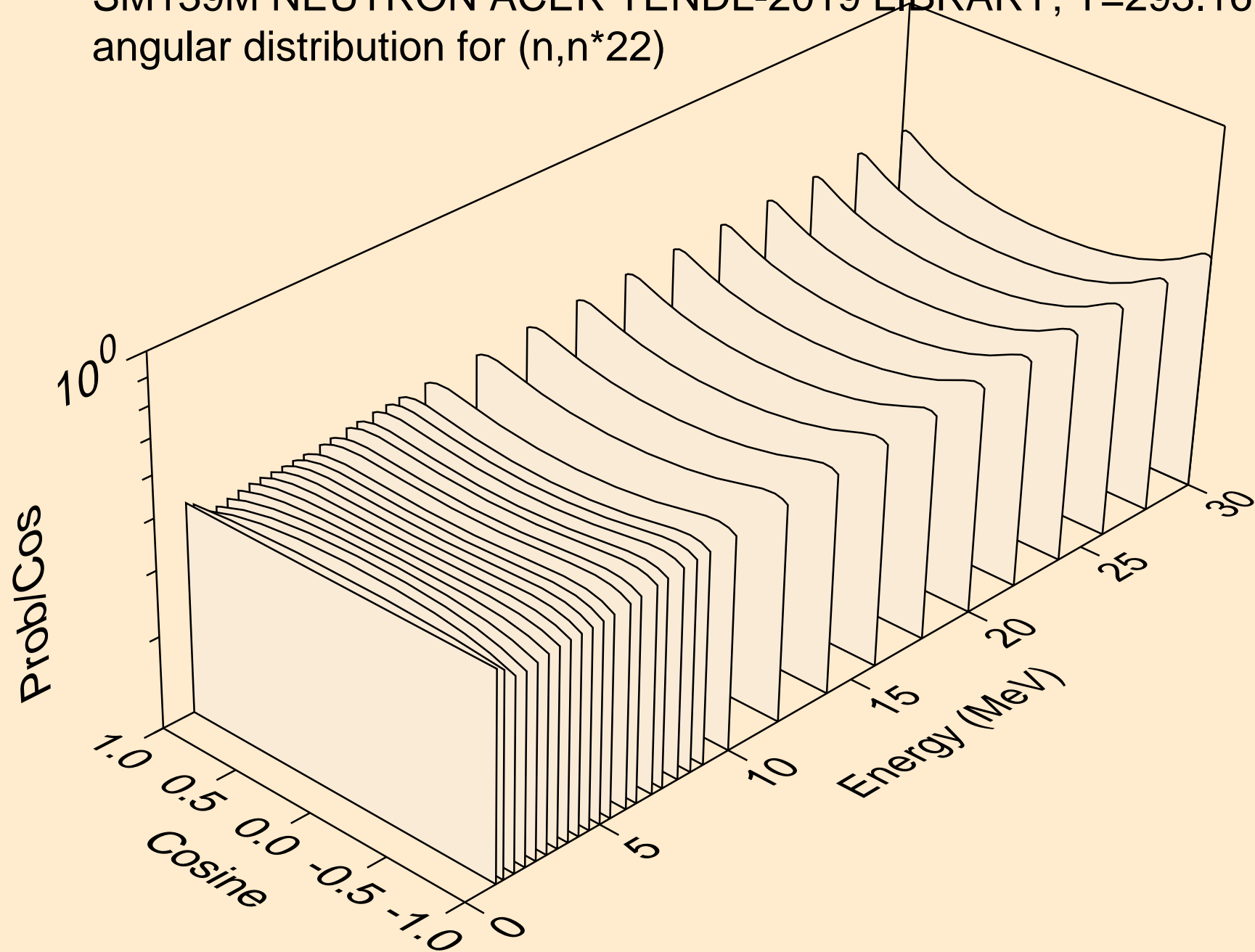
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angular distribution for (n,n*20)



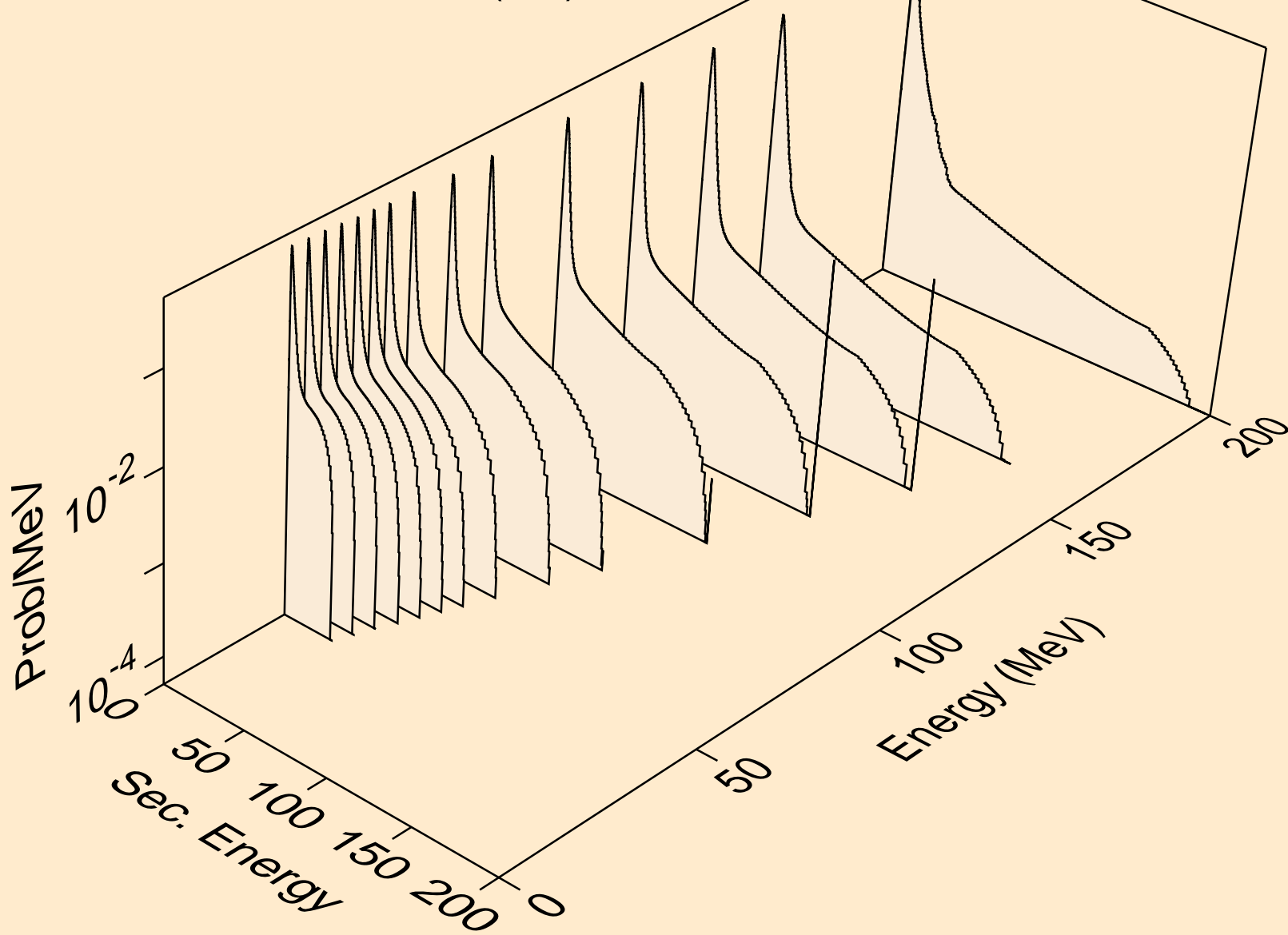
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angular distribution for (n,n*21)



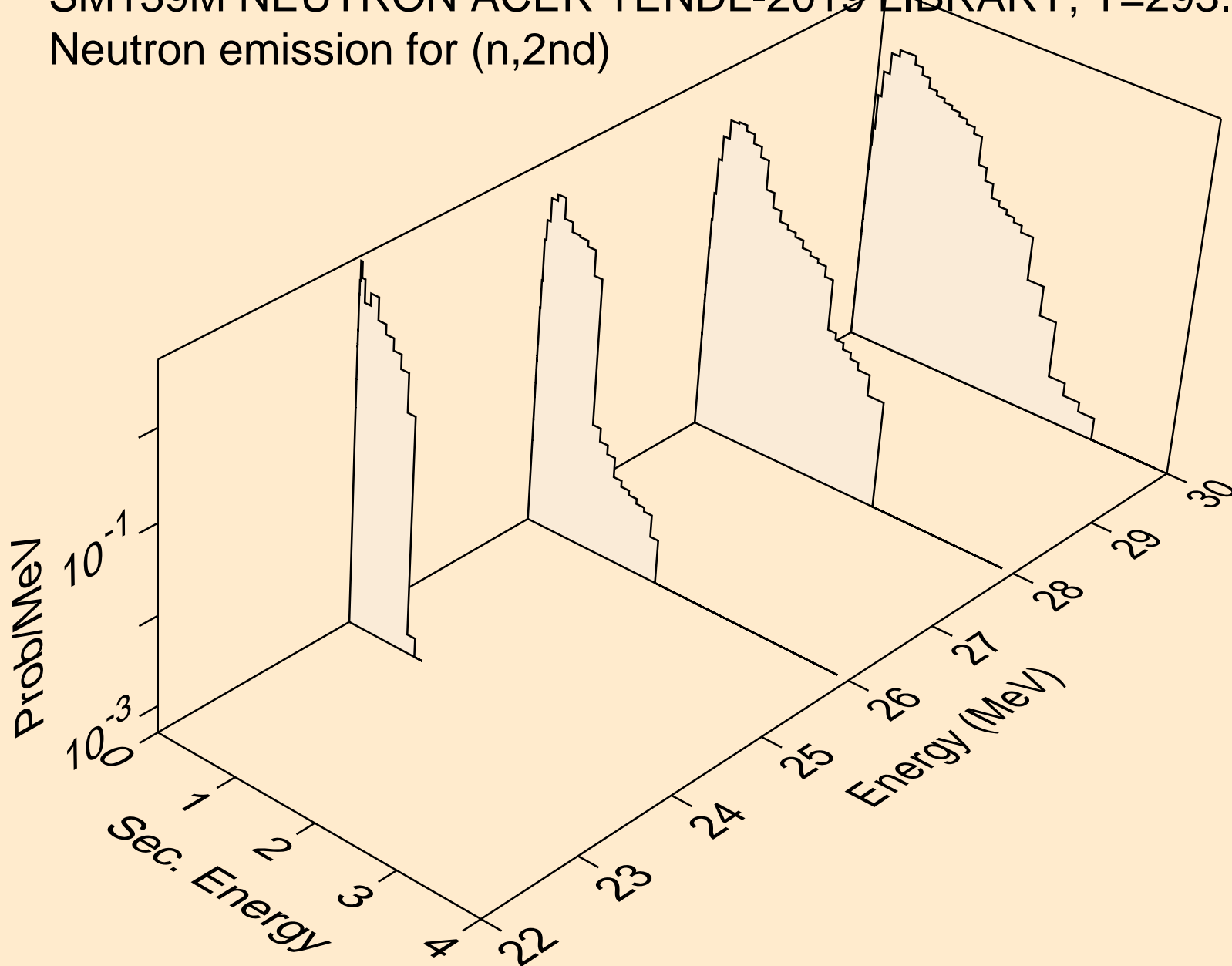
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angular distribution for (n,n*22)



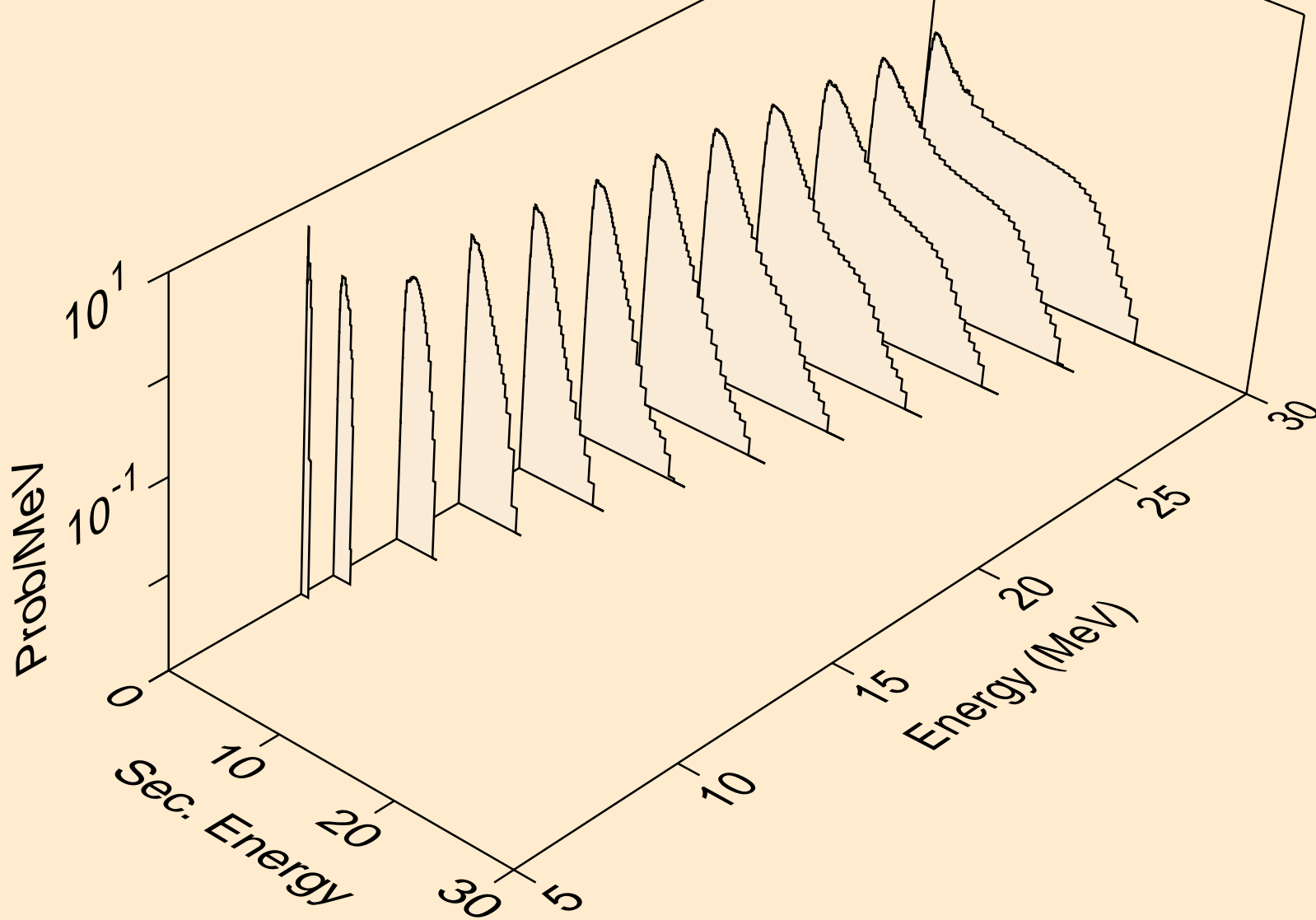
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Neutron emission for (n,x)



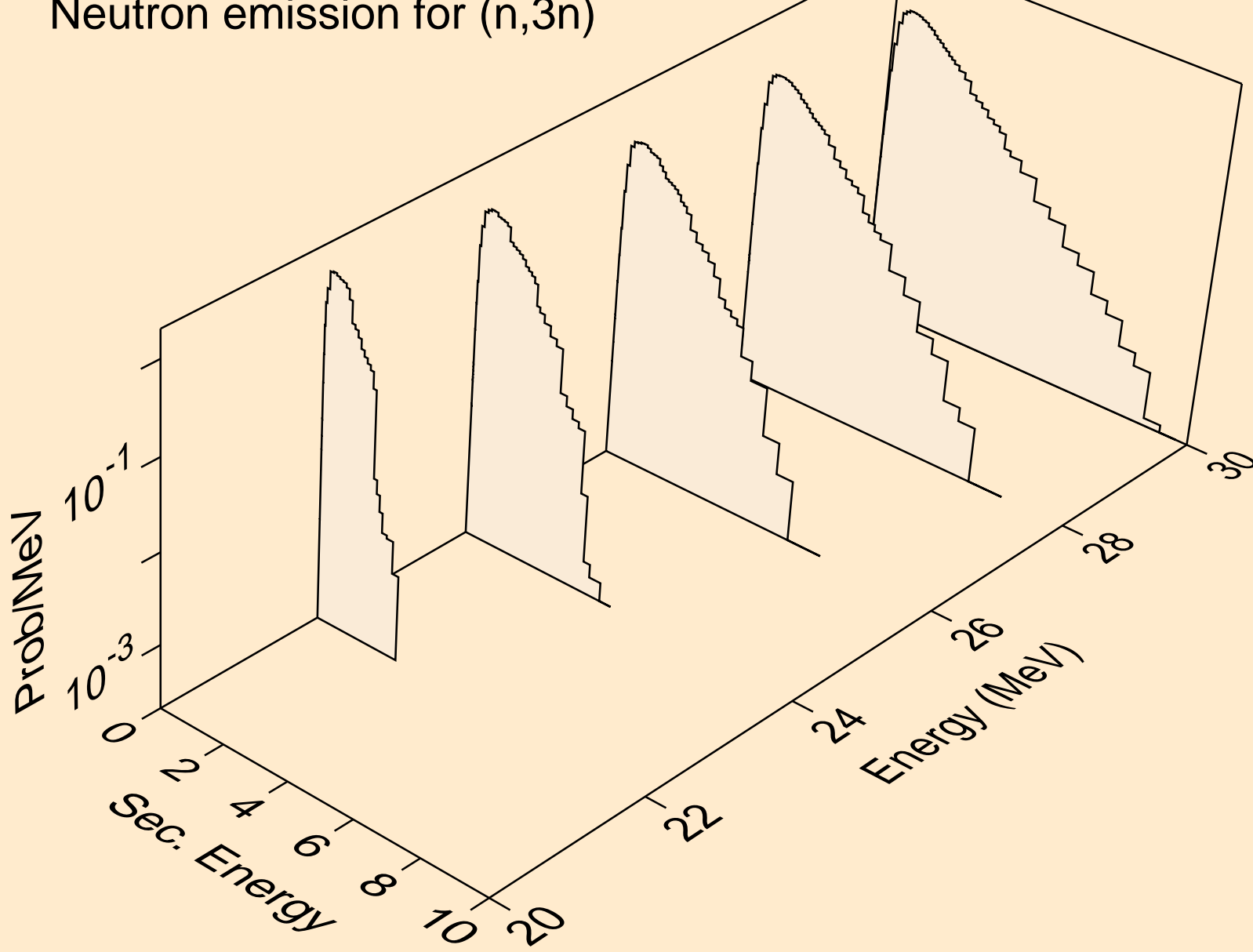
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Neutron emission for (n,2nd)



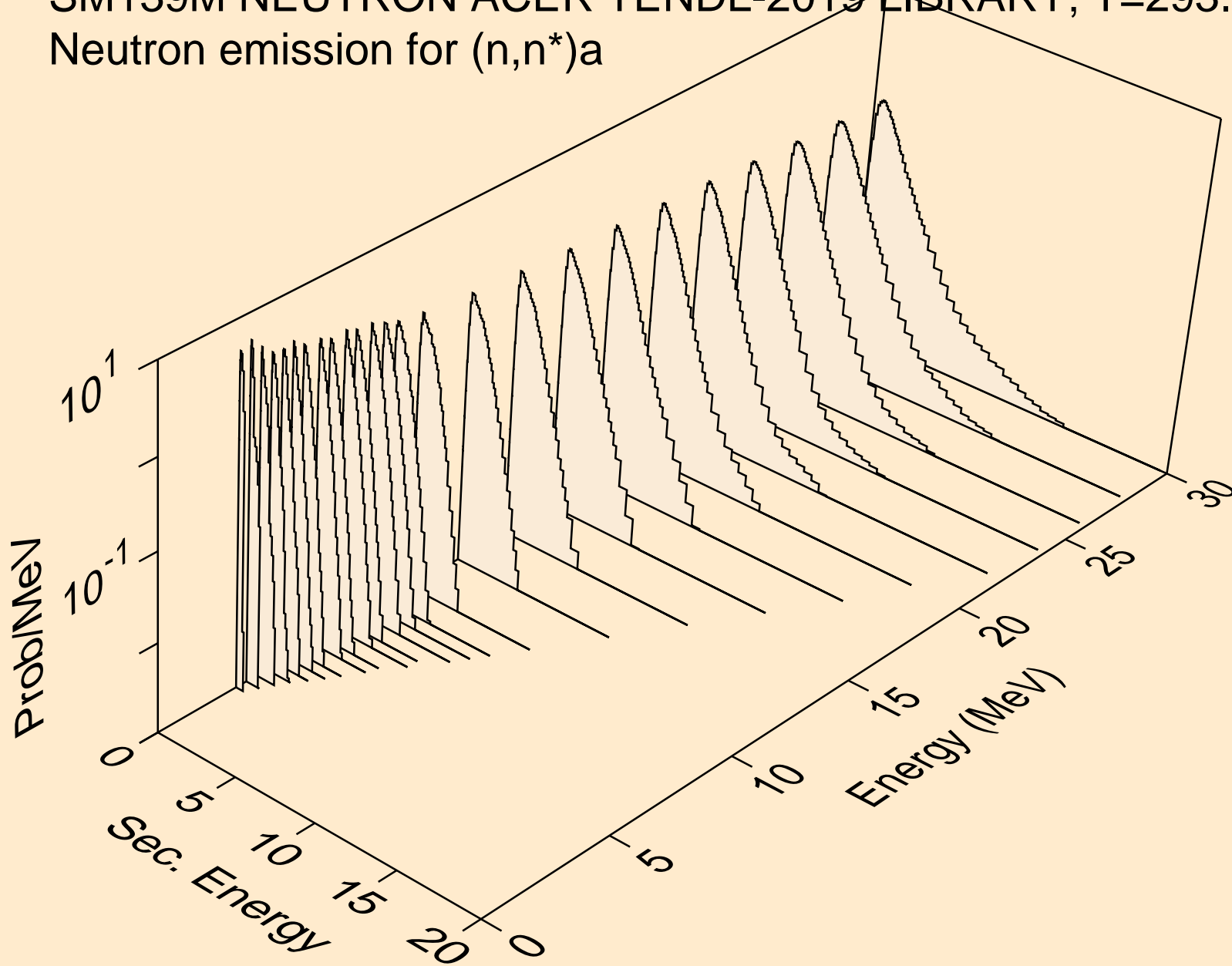
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Neutron emission for (n,2n)



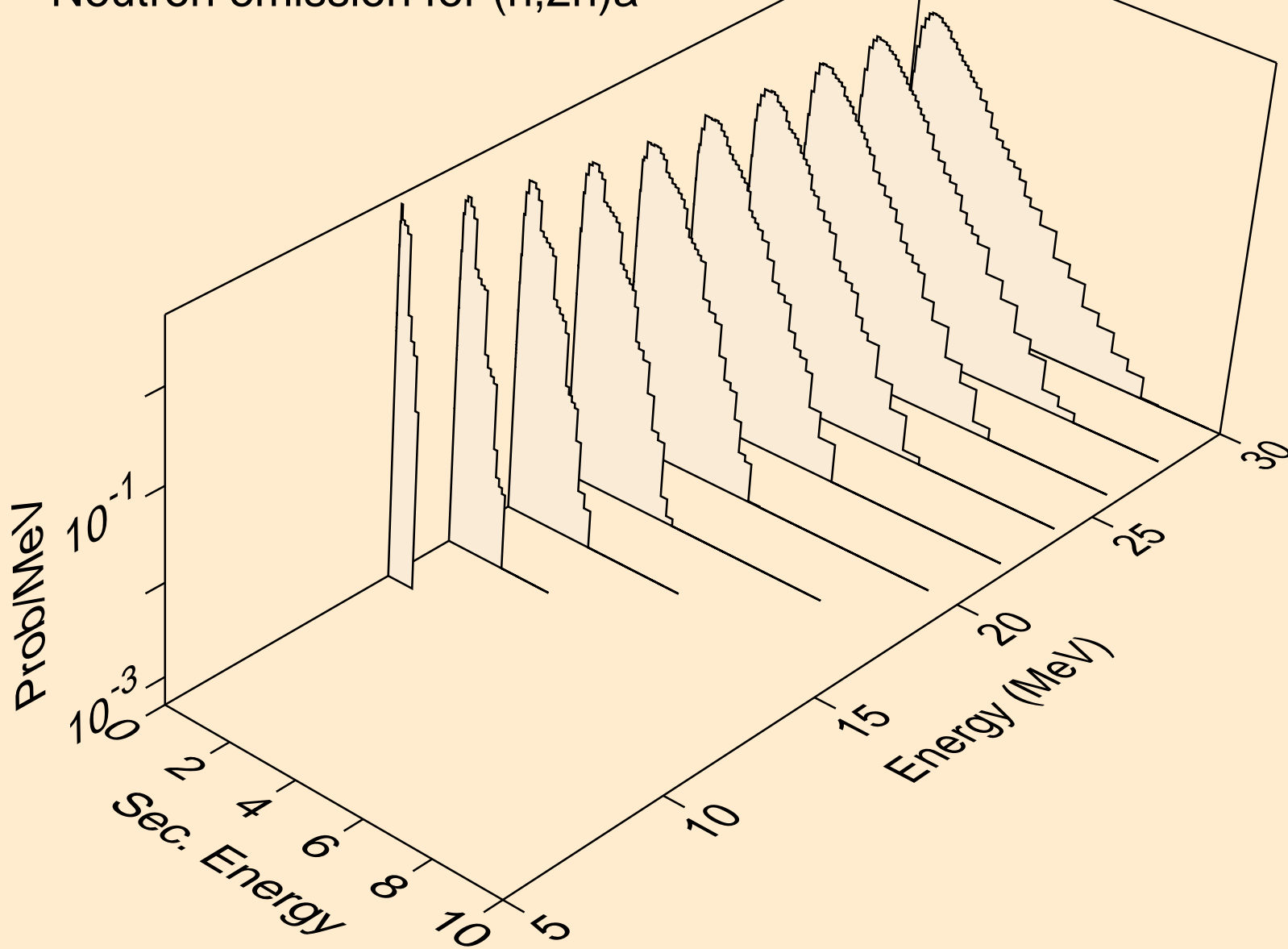
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Neutron emission for (n,3n)



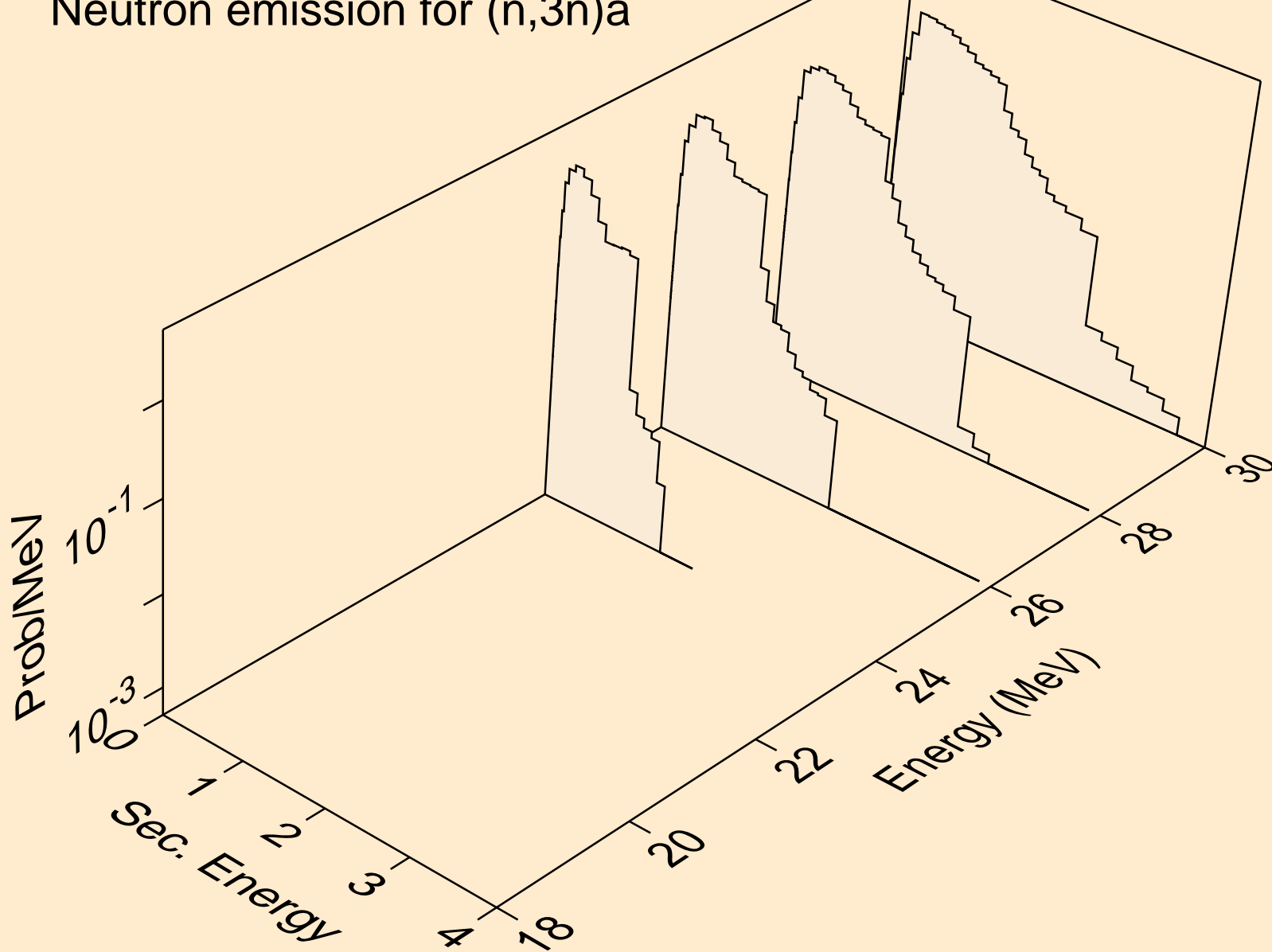
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Neutron emission for (n,n*)a



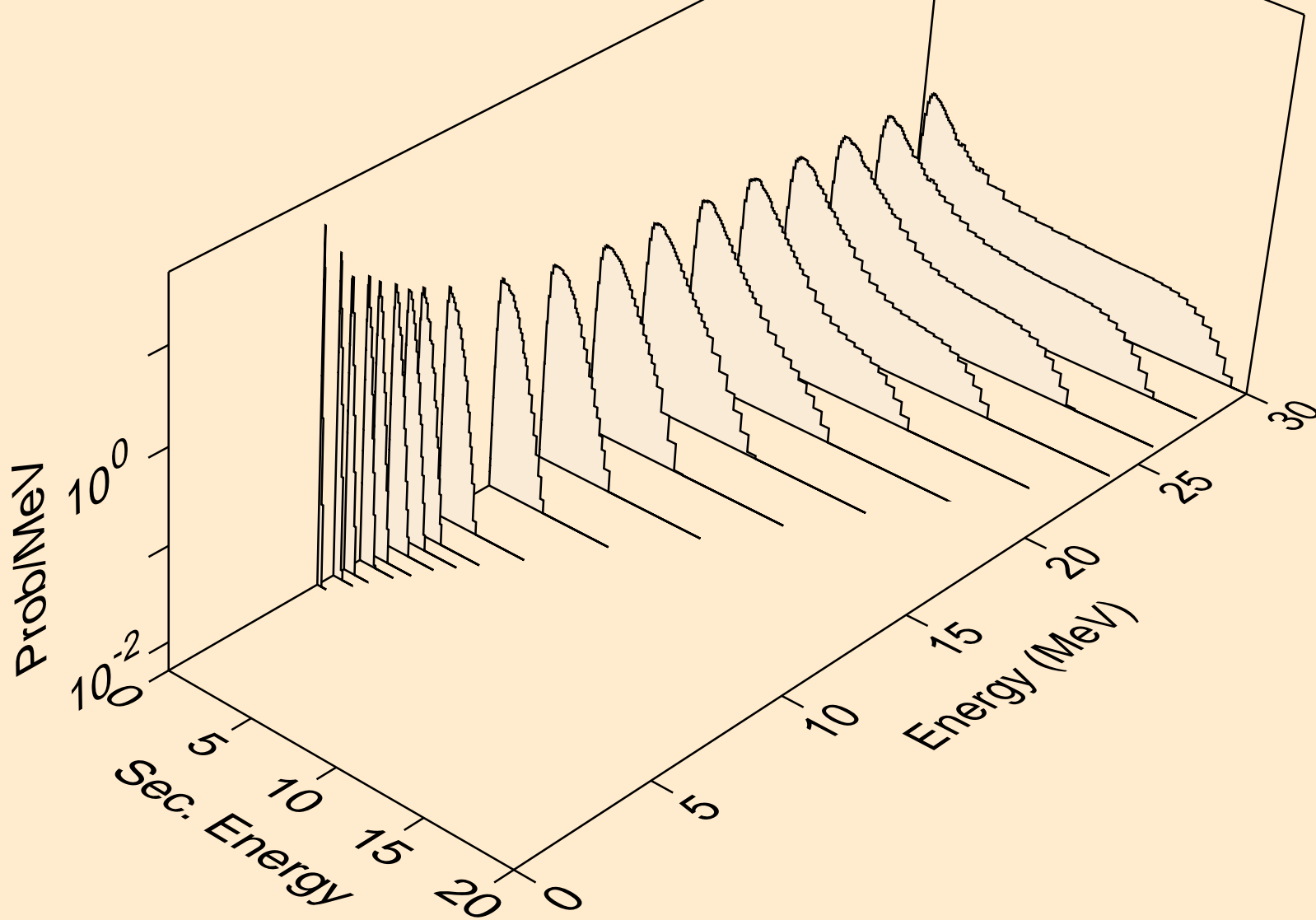
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Neutron emission for (n,2n)a



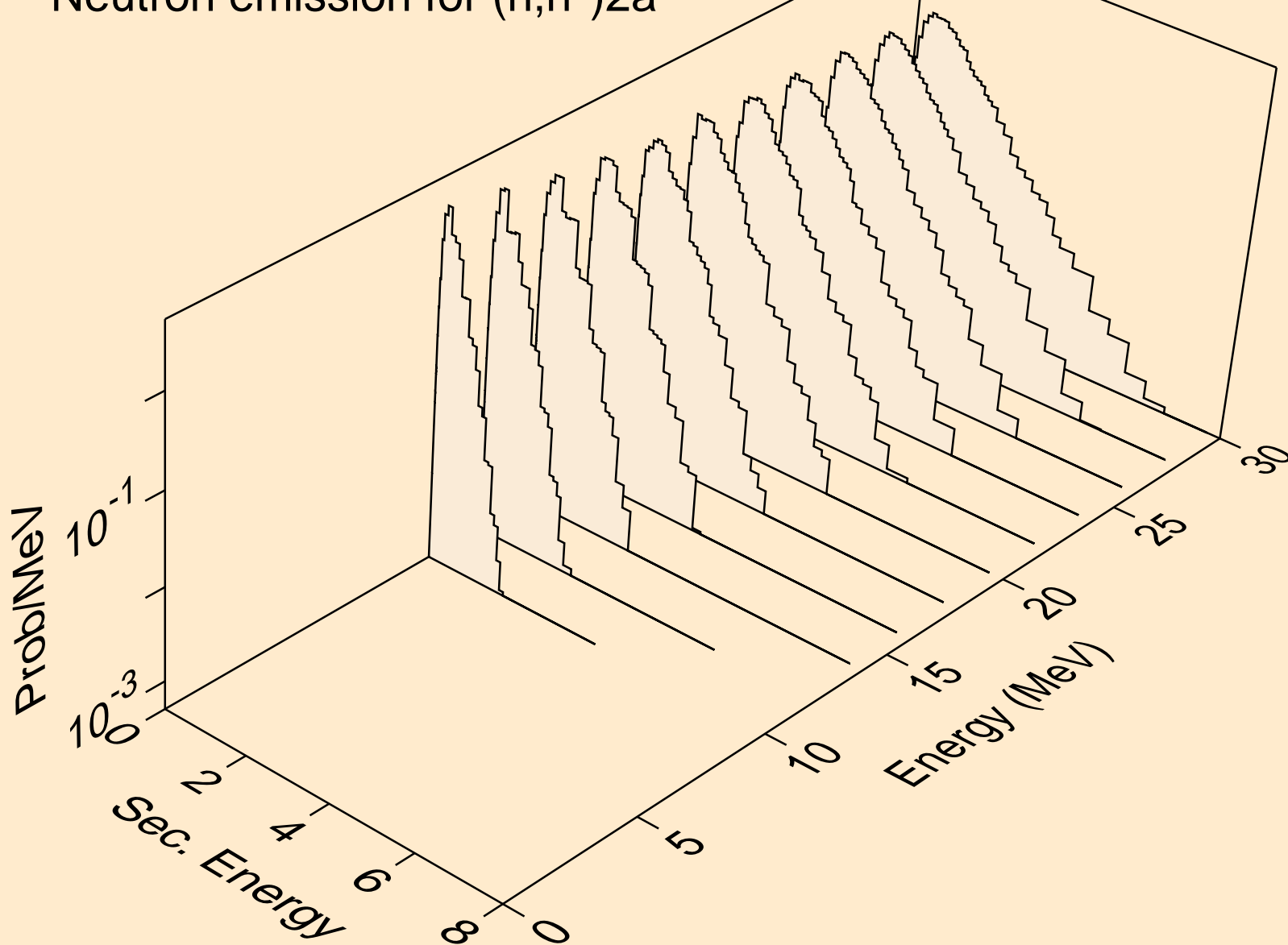
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Neutron emission for (n,3n)a



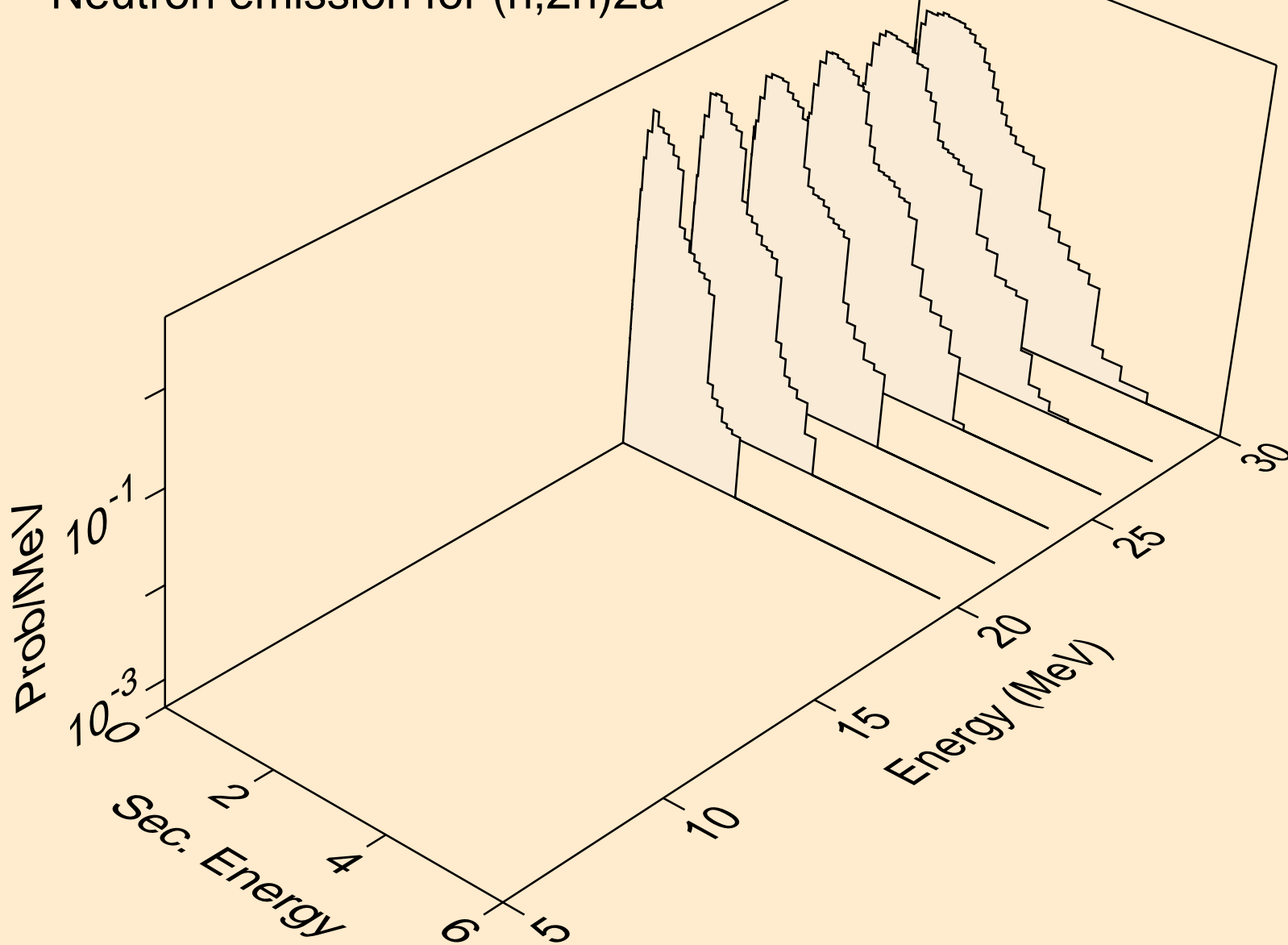
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Neutron emission for (n,n*)p



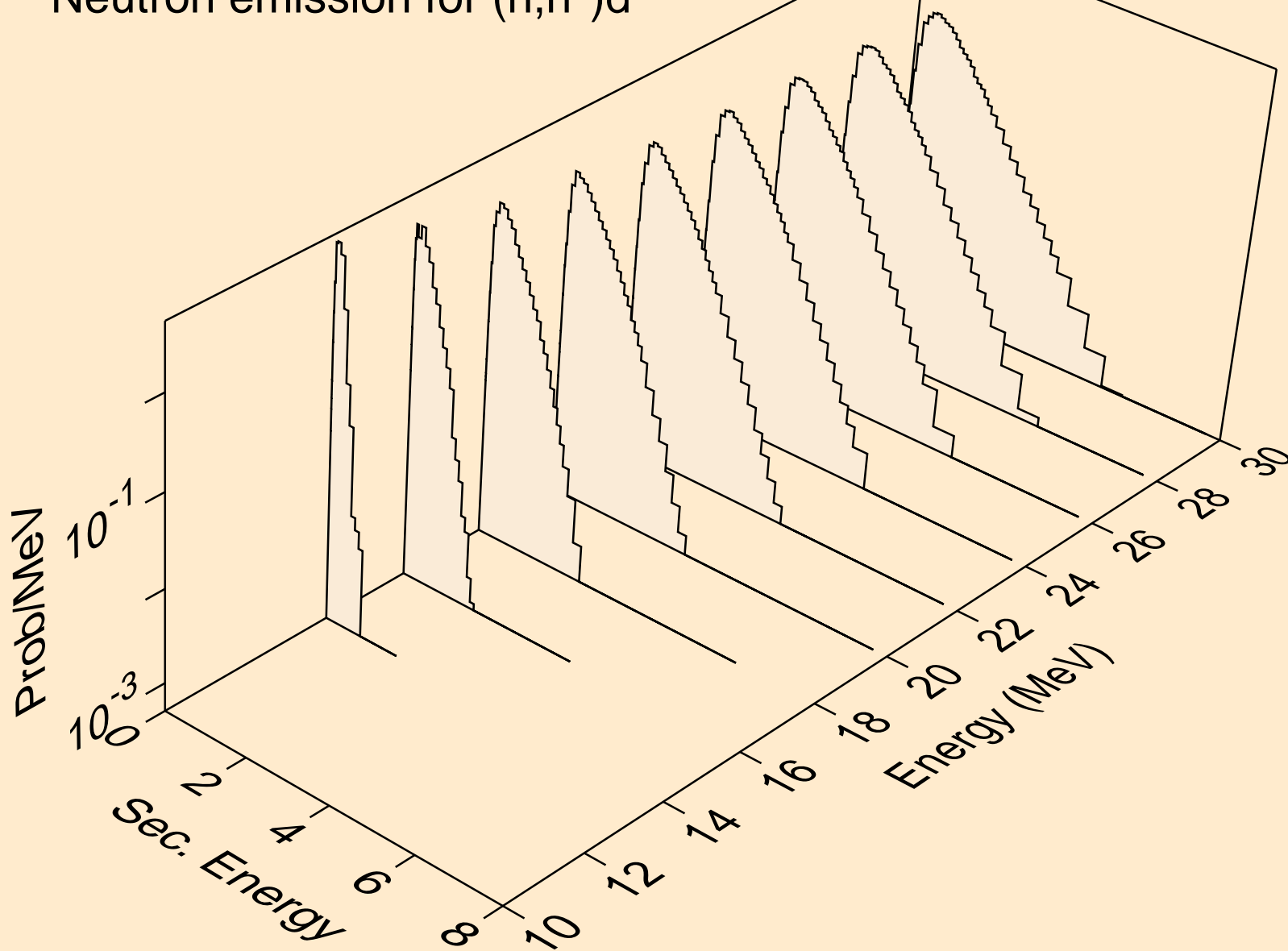
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Neutron emission for (n,n*)2a



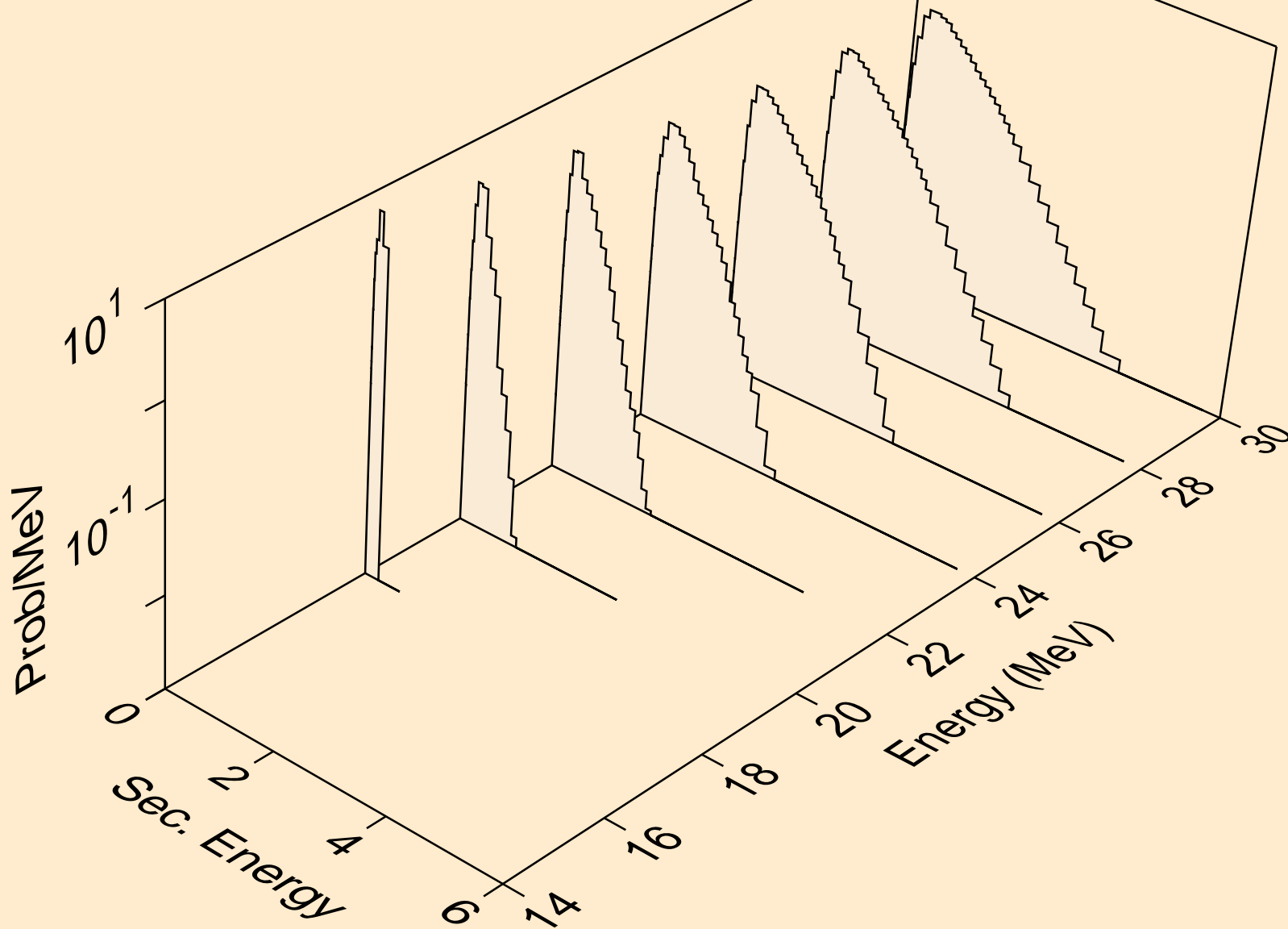
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Neutron emission for (n,2n)2a



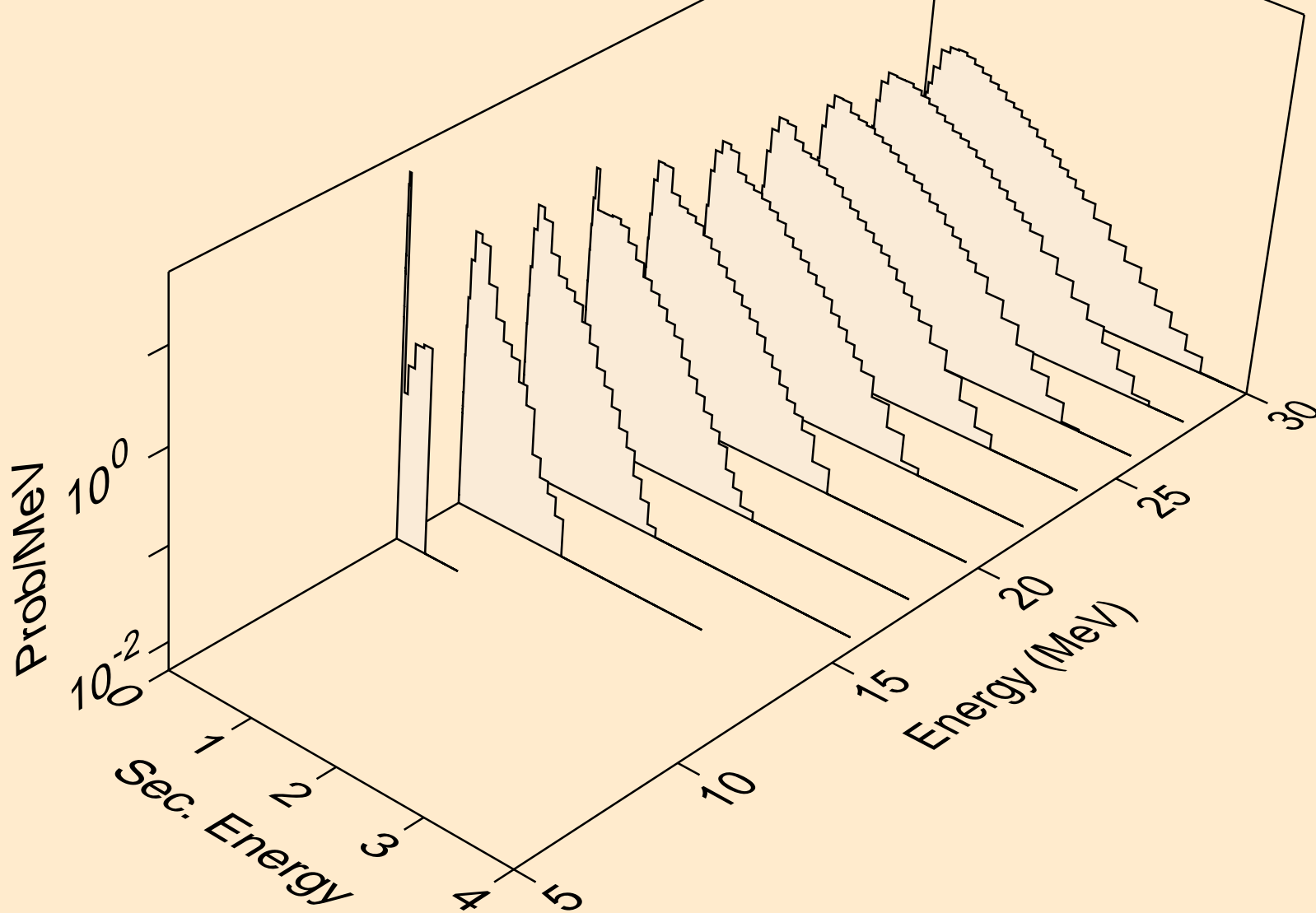
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Neutron emission for (n,n*)d



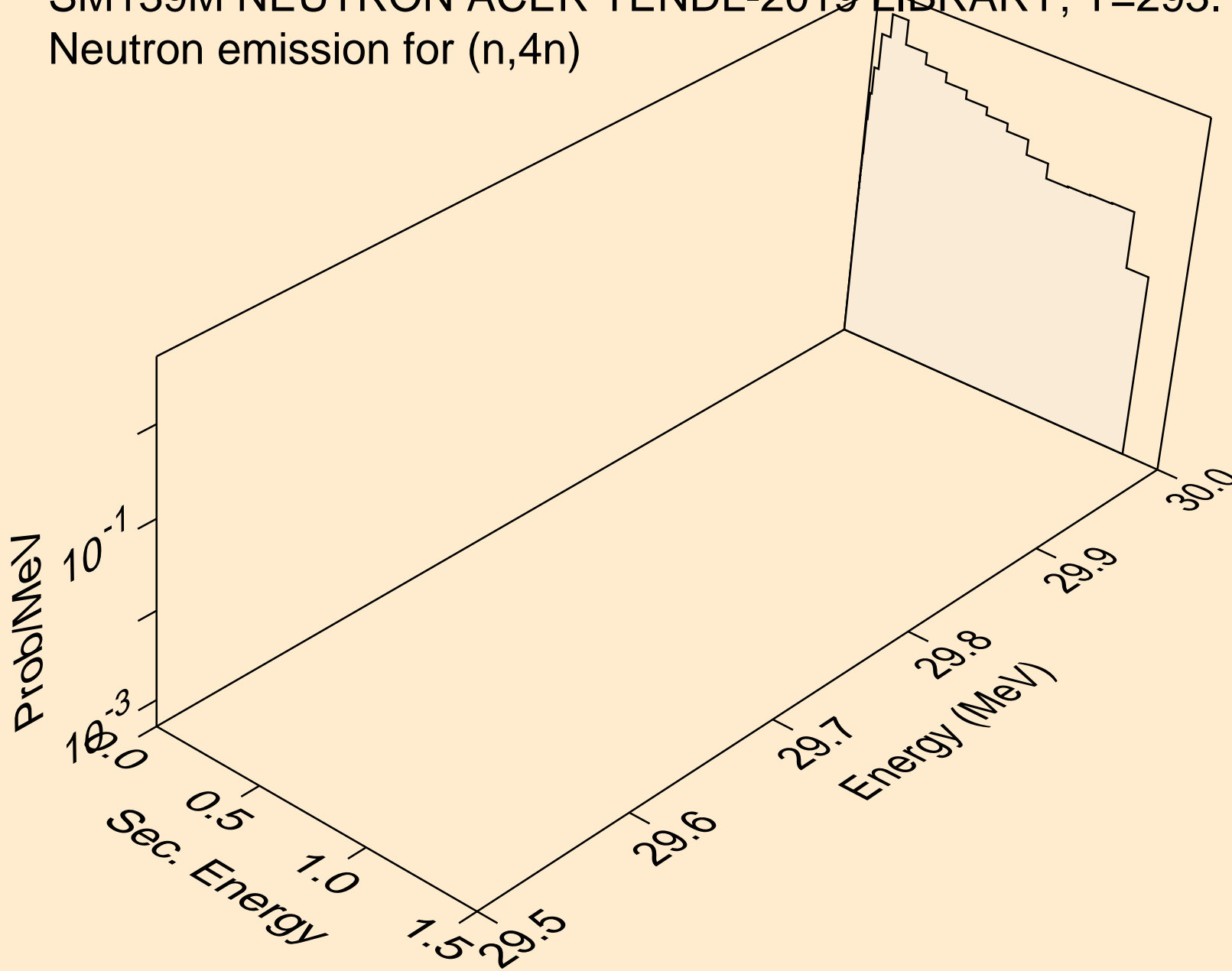
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Neutron emission for (n,n*)t



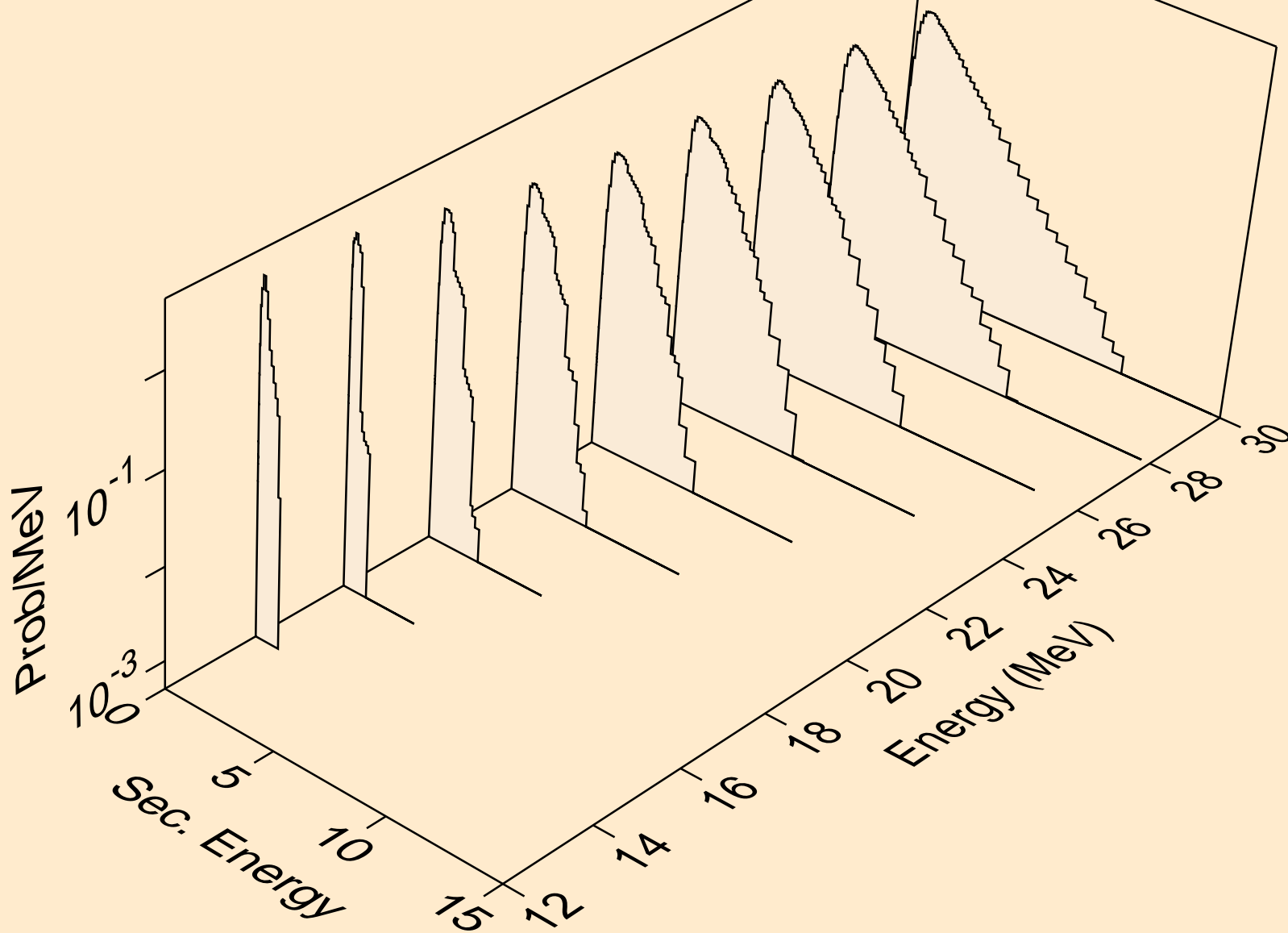
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Neutron emission for (n,n*)he3



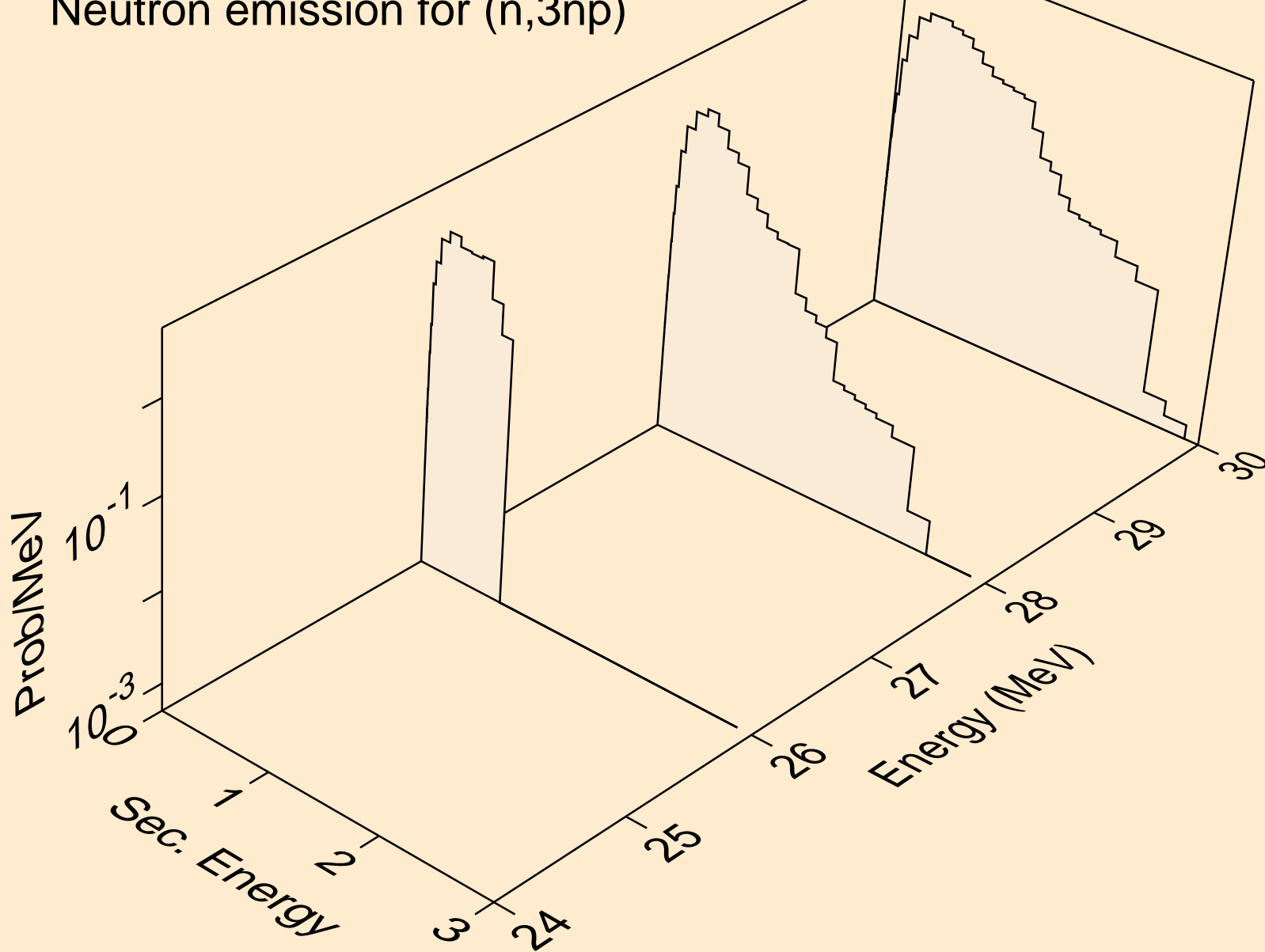
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Neutron emission for (n,4n)



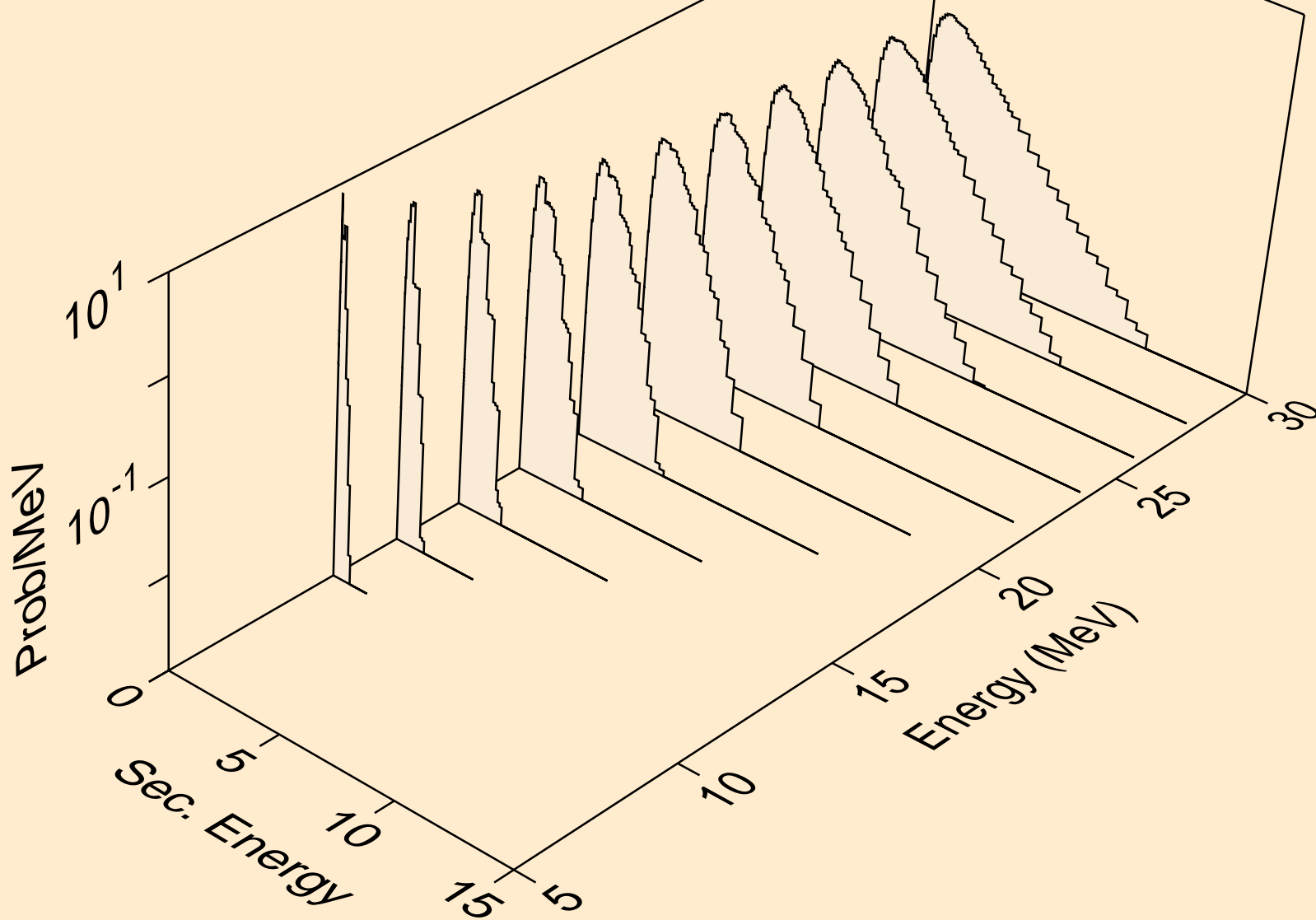
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Neutron emission for (n,2np)



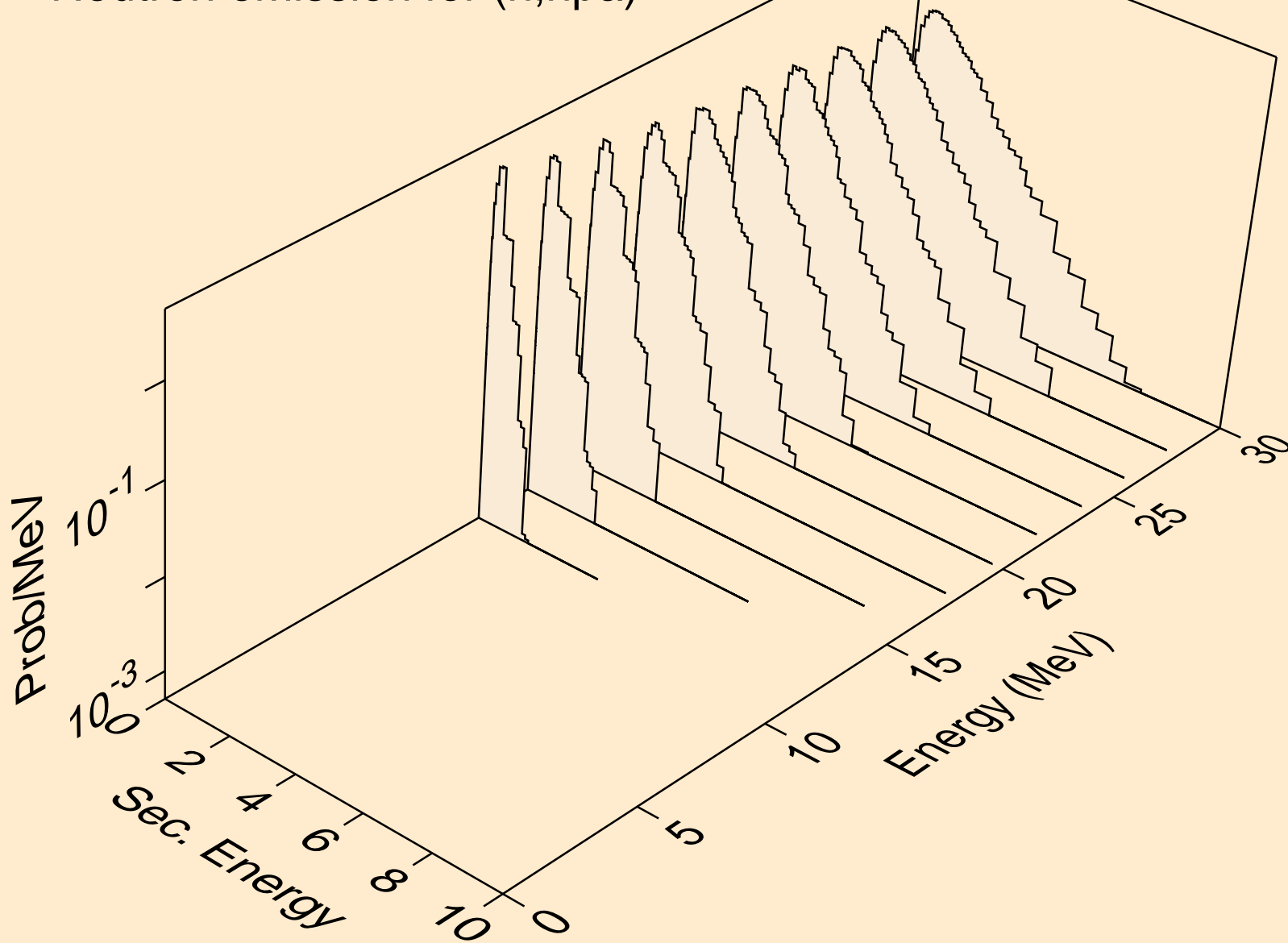
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Neutron emission for (n,3np)



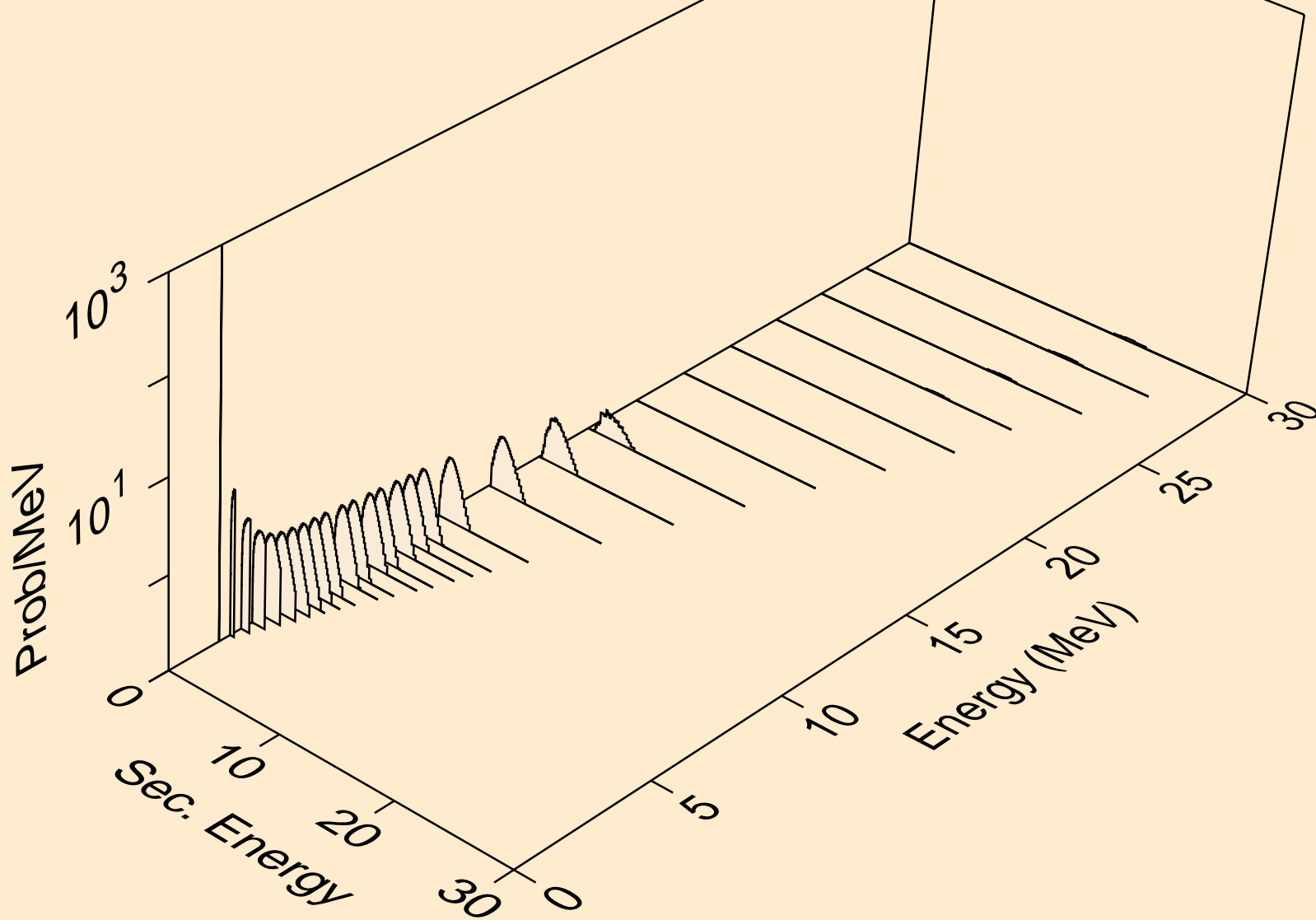
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Neutron emission for (n,2np)



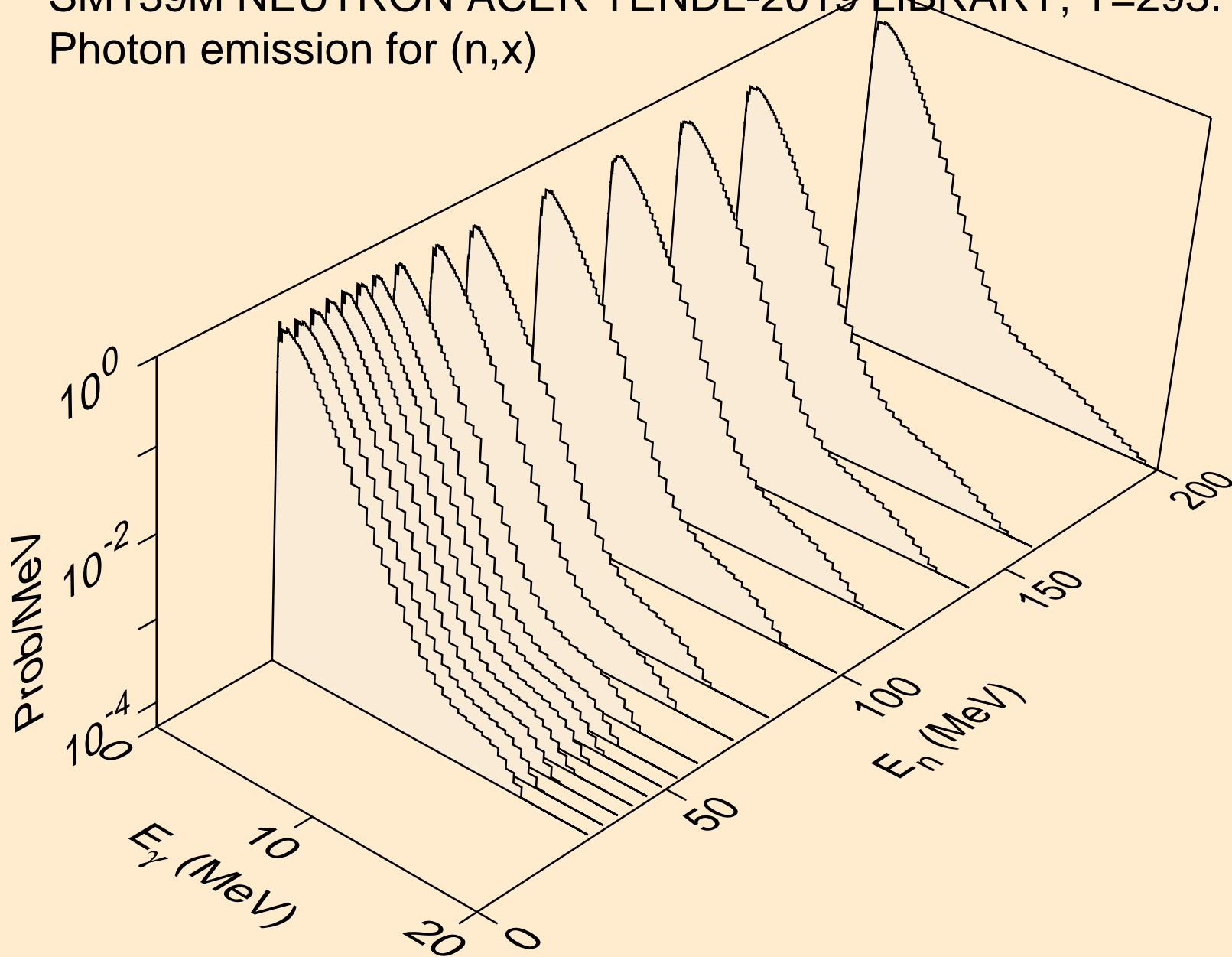
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Neutron emission for (n,npa)



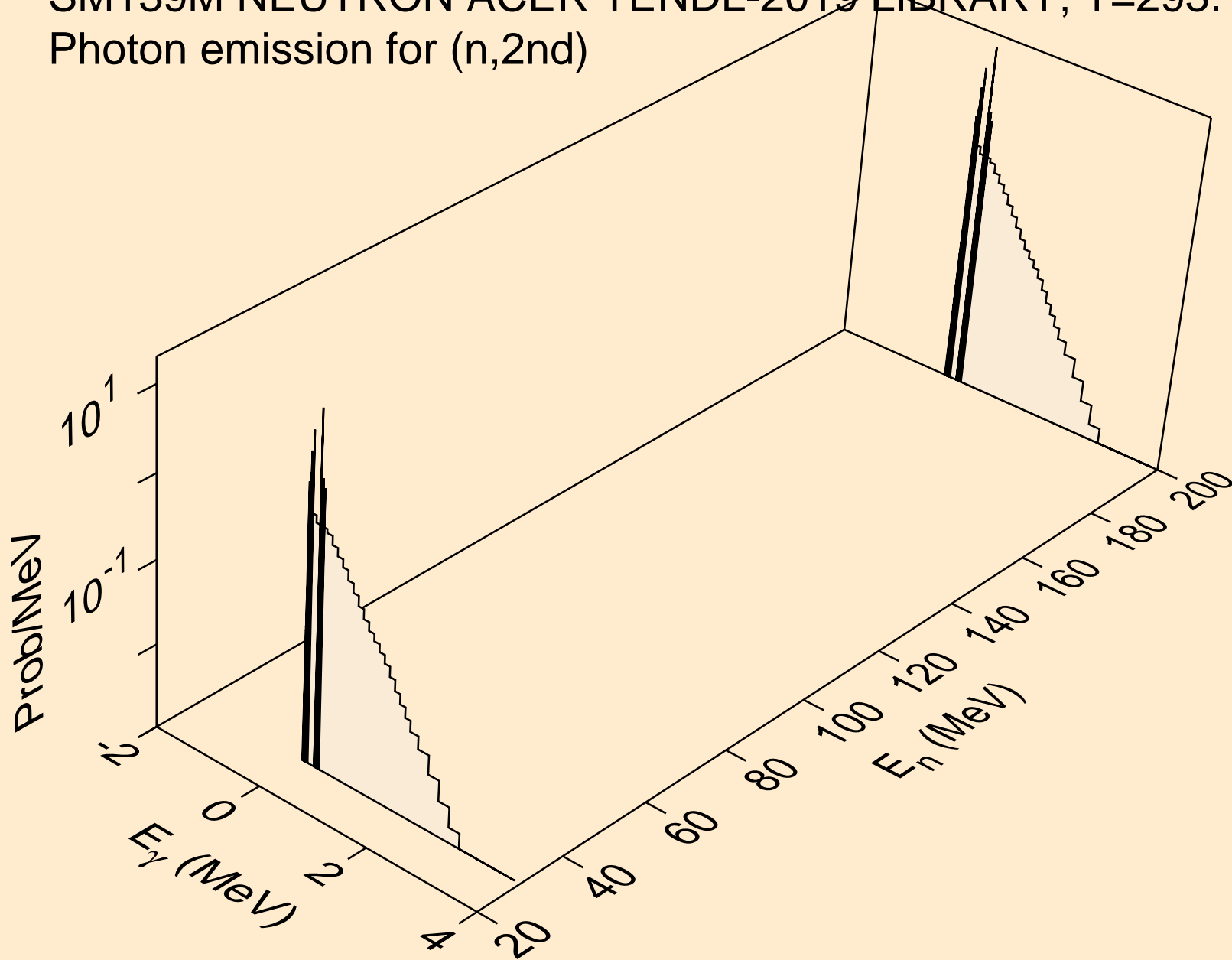
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Neutron emission for (n,n*c)



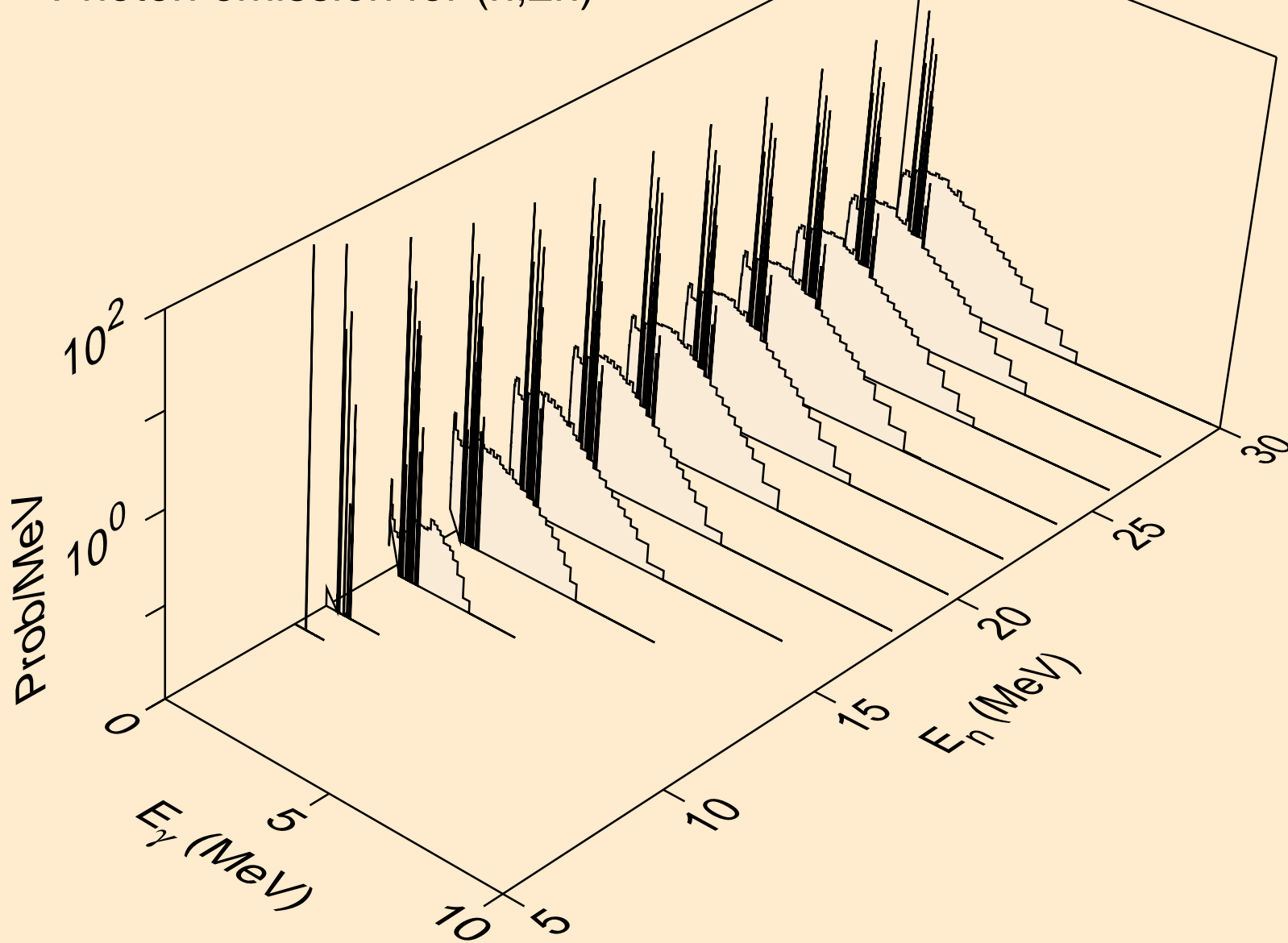
SM139M NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Photon emission for (n,x)



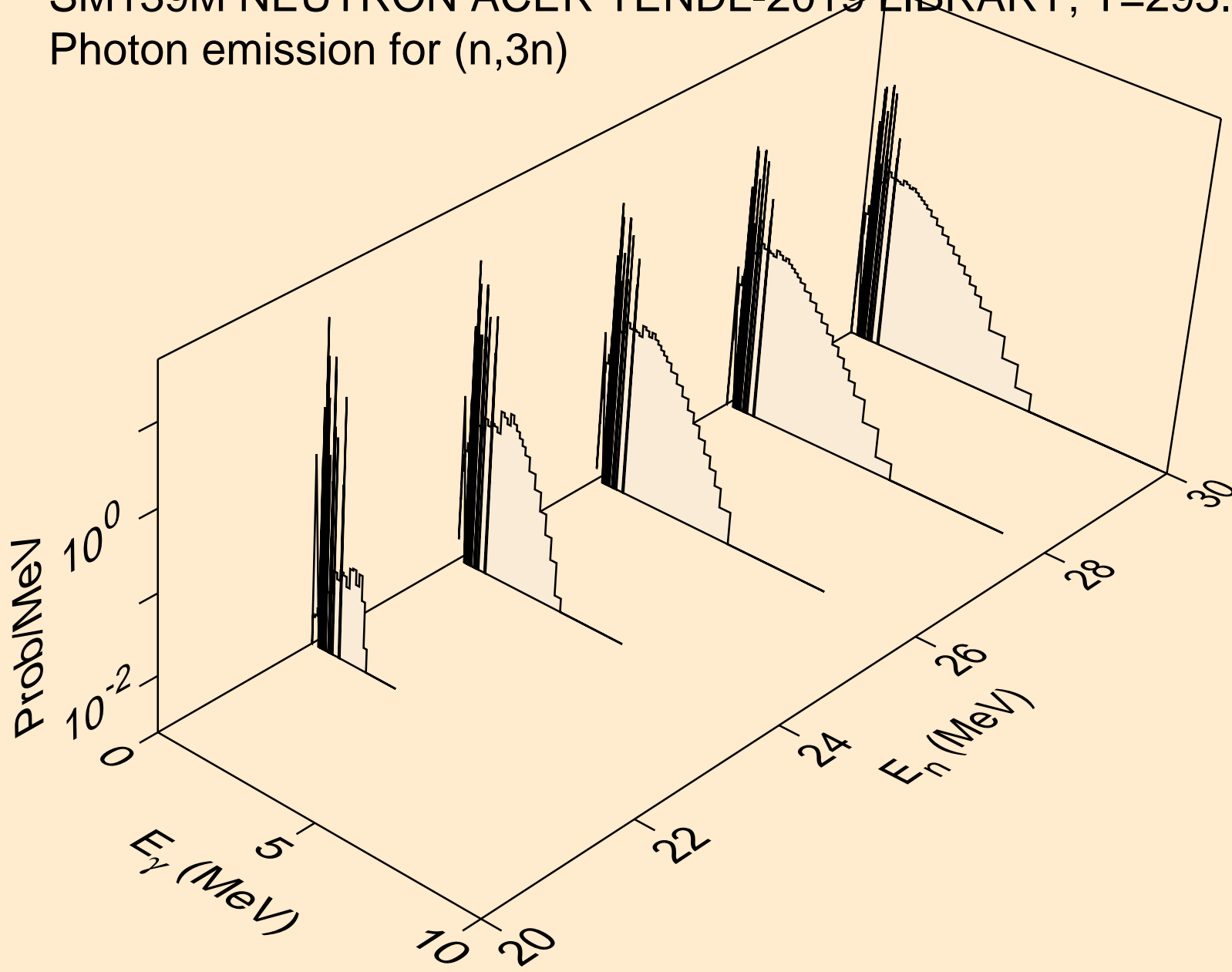
SM139M NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Photon emission for (n,2nd)



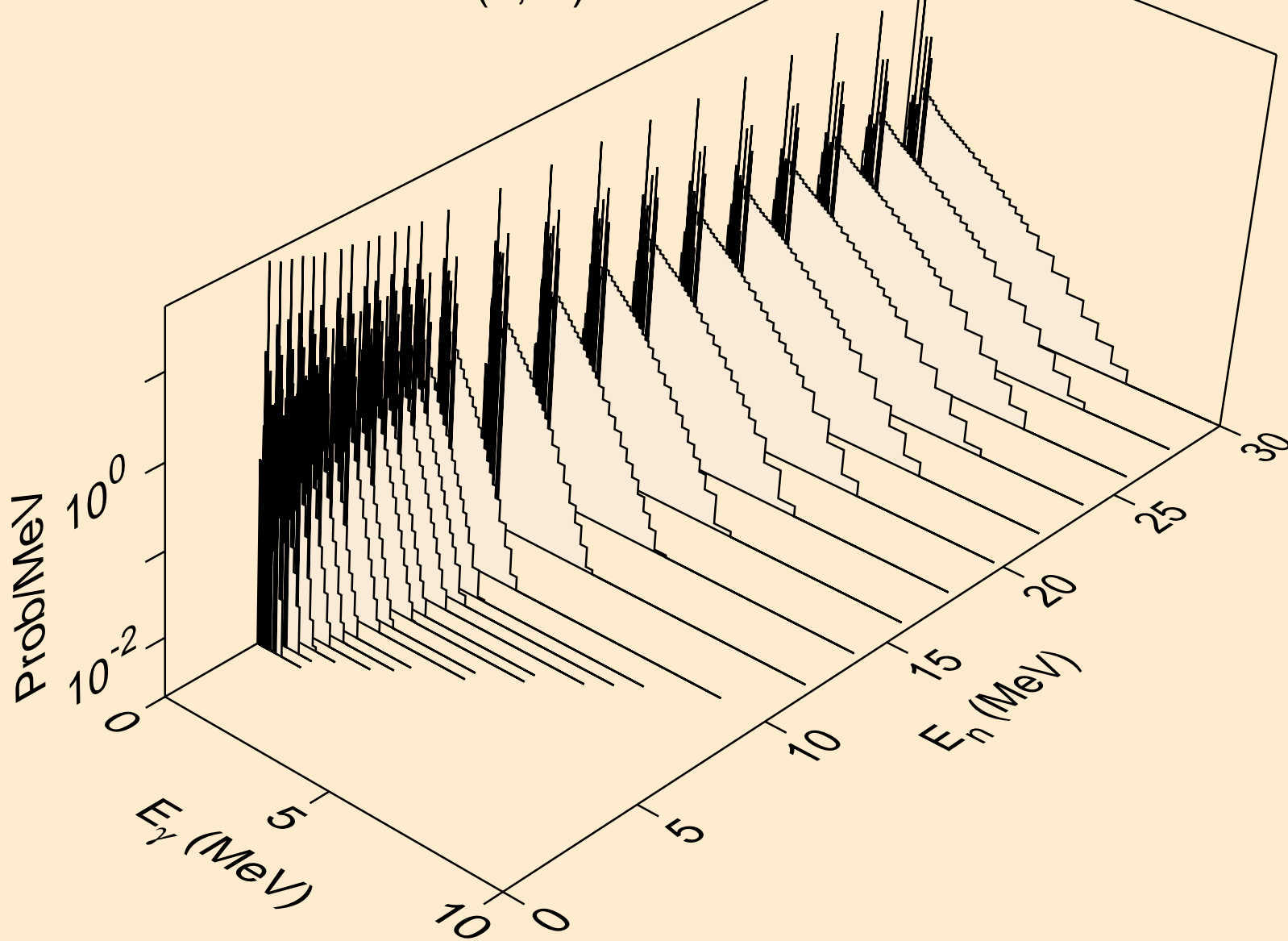
SM139M NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Photon emission for (n,2n)



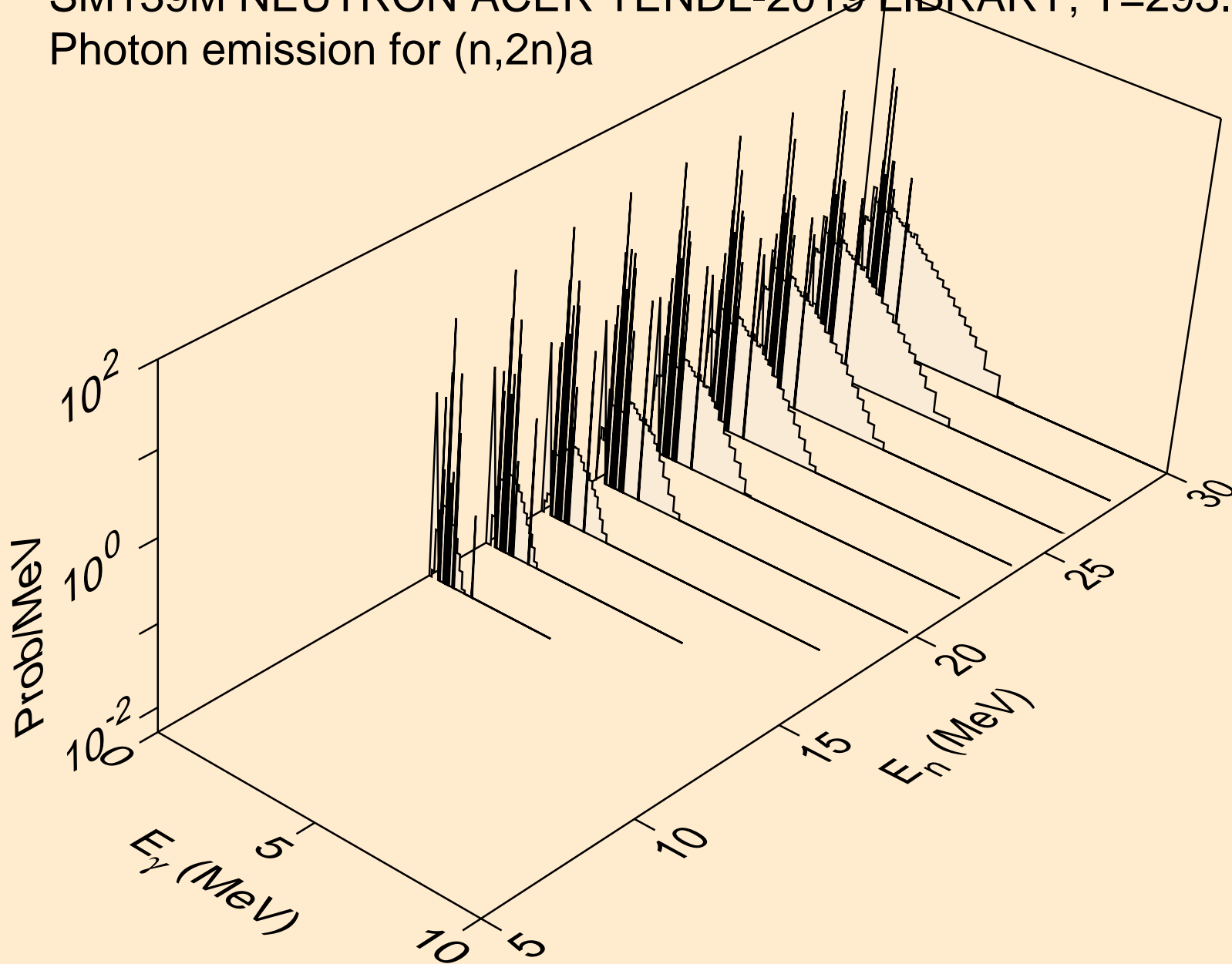
SM139M NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Photon emission for (n,3n)



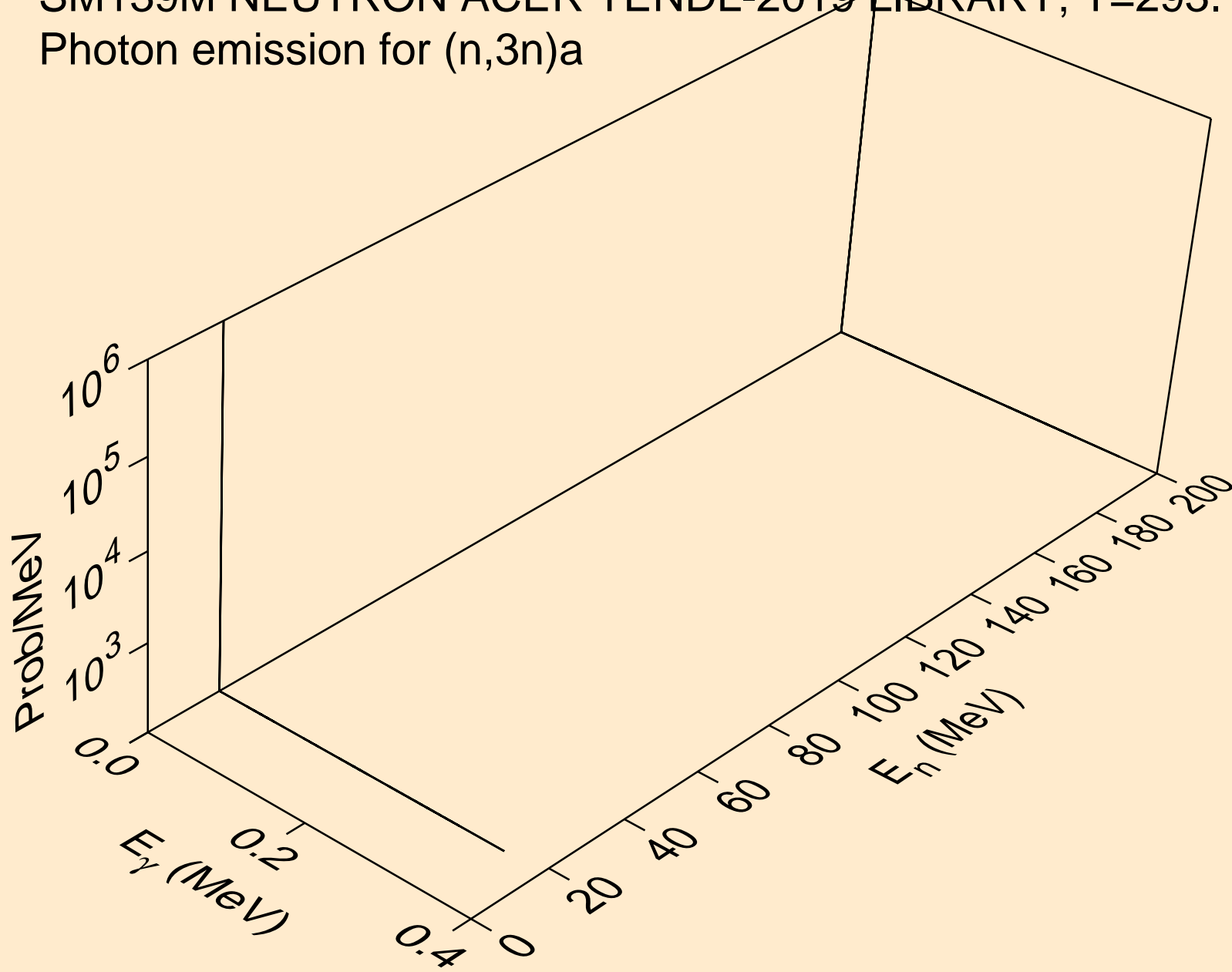
SM139M NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Photon emission for (n,n*)a



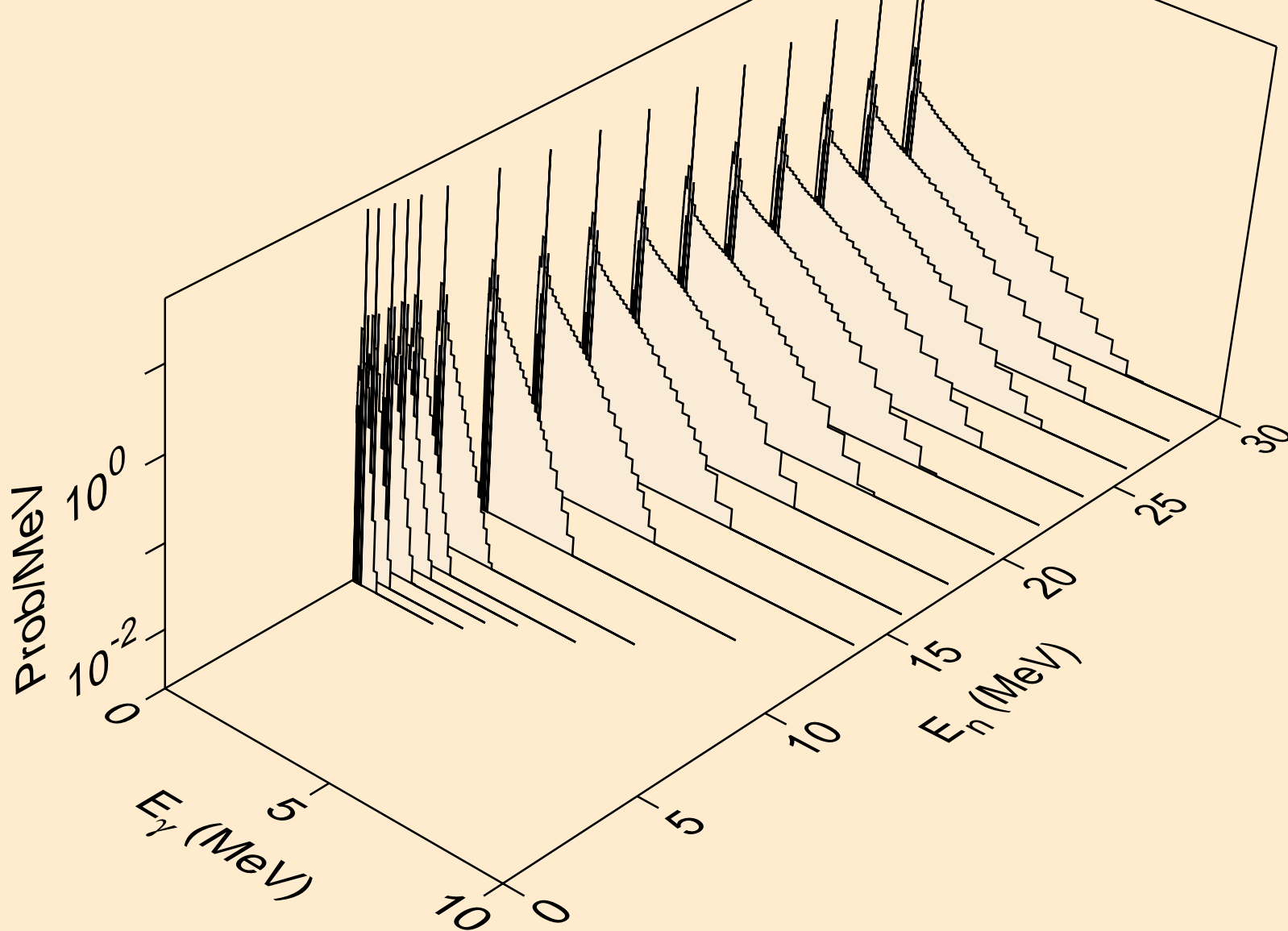
SM139M NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Photon emission for (n,2n)a



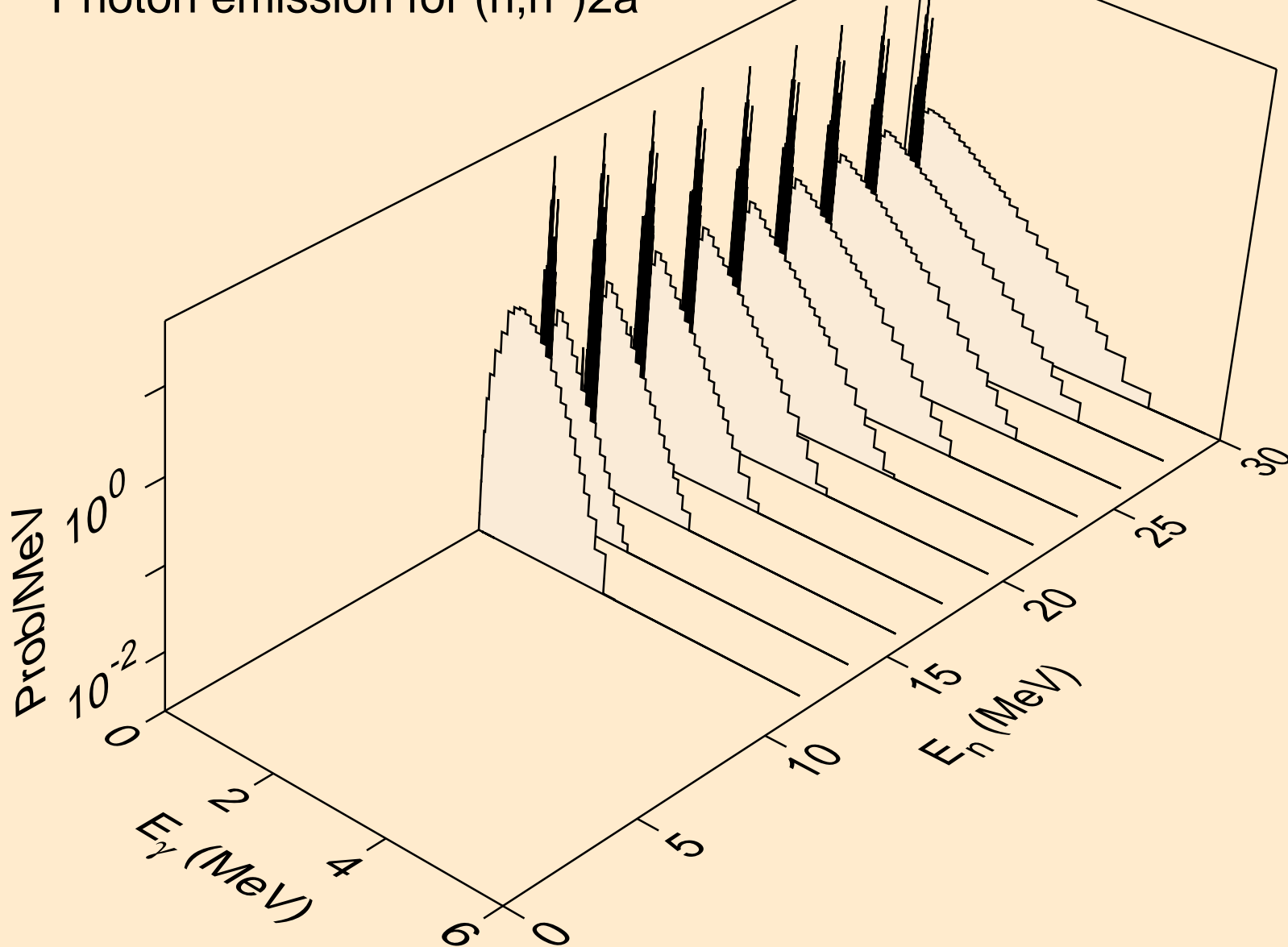
SM139M NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Photon emission for (n,3n)a



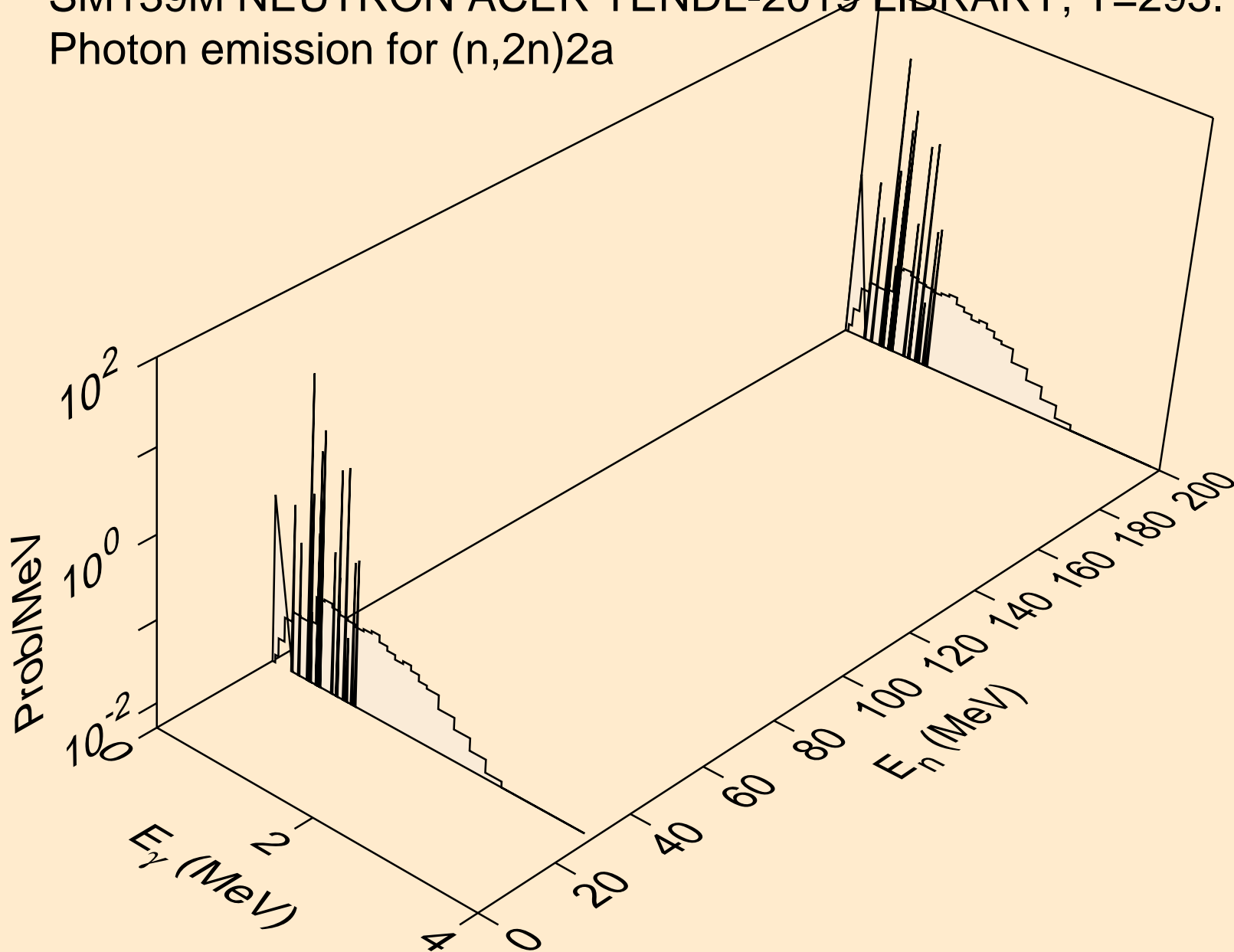
SM139M NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Photon emission for (n,n*)p



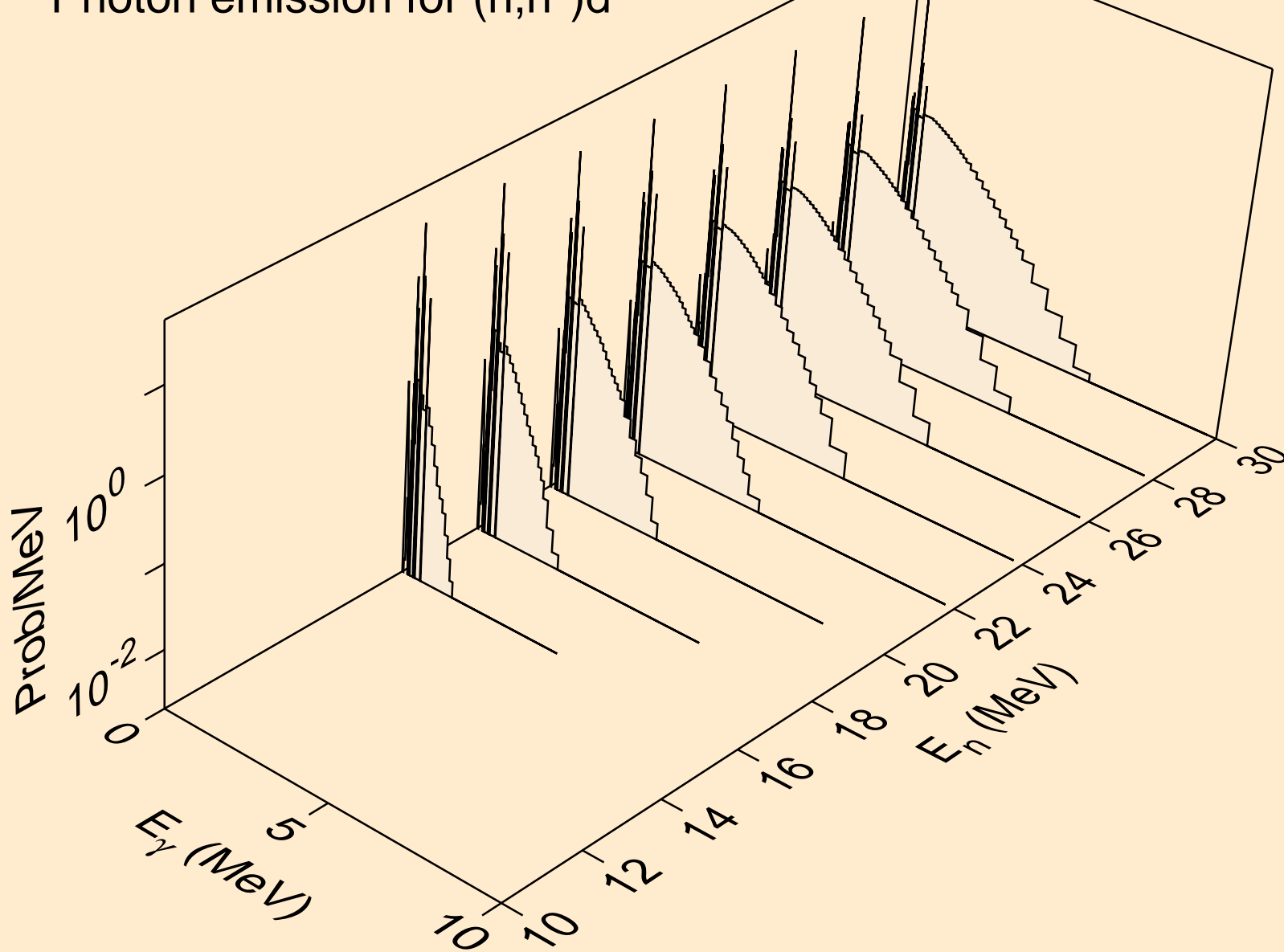
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Photon emission for (n,n*)2a



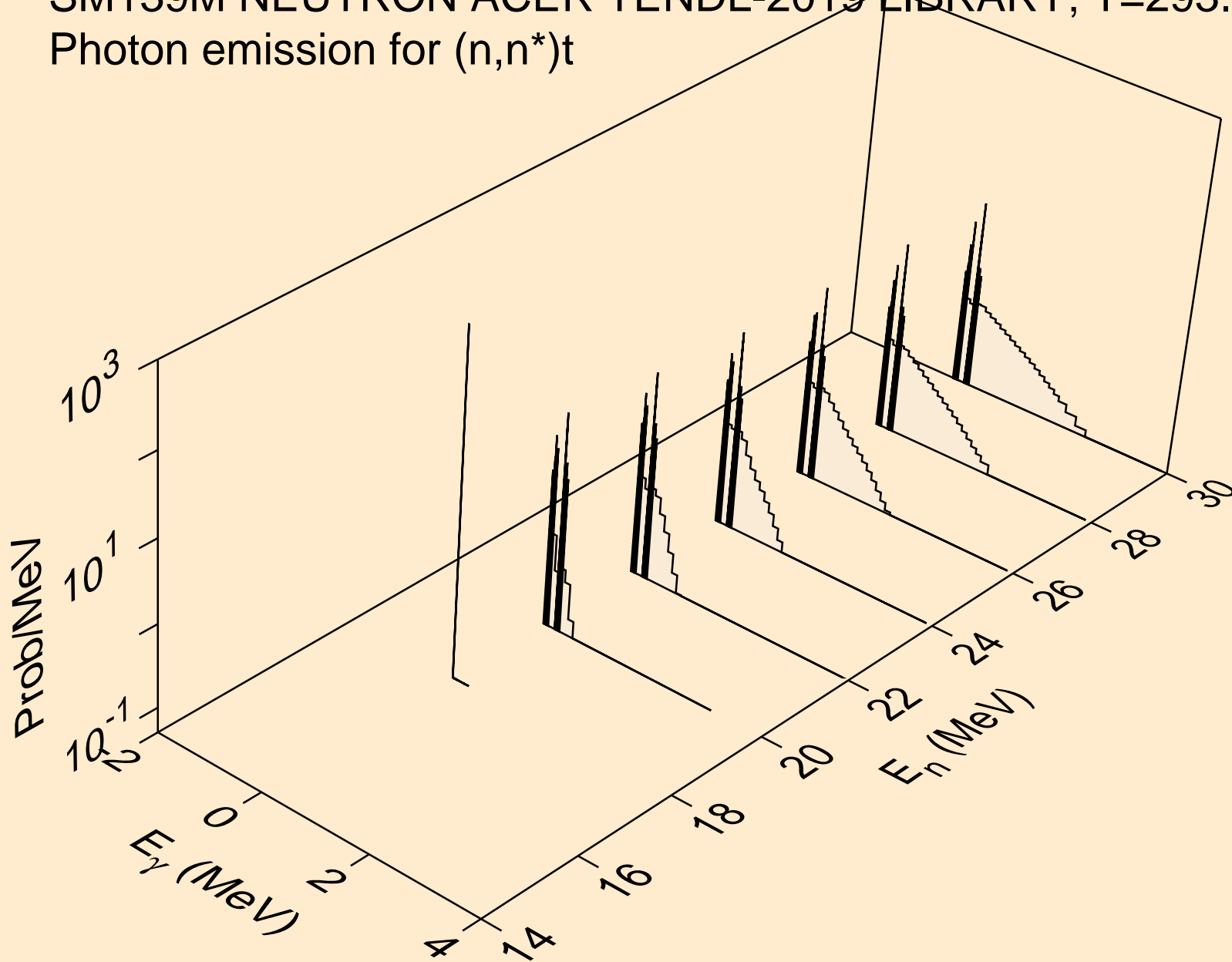
SM139M NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Photon emission for (n,2n)2a



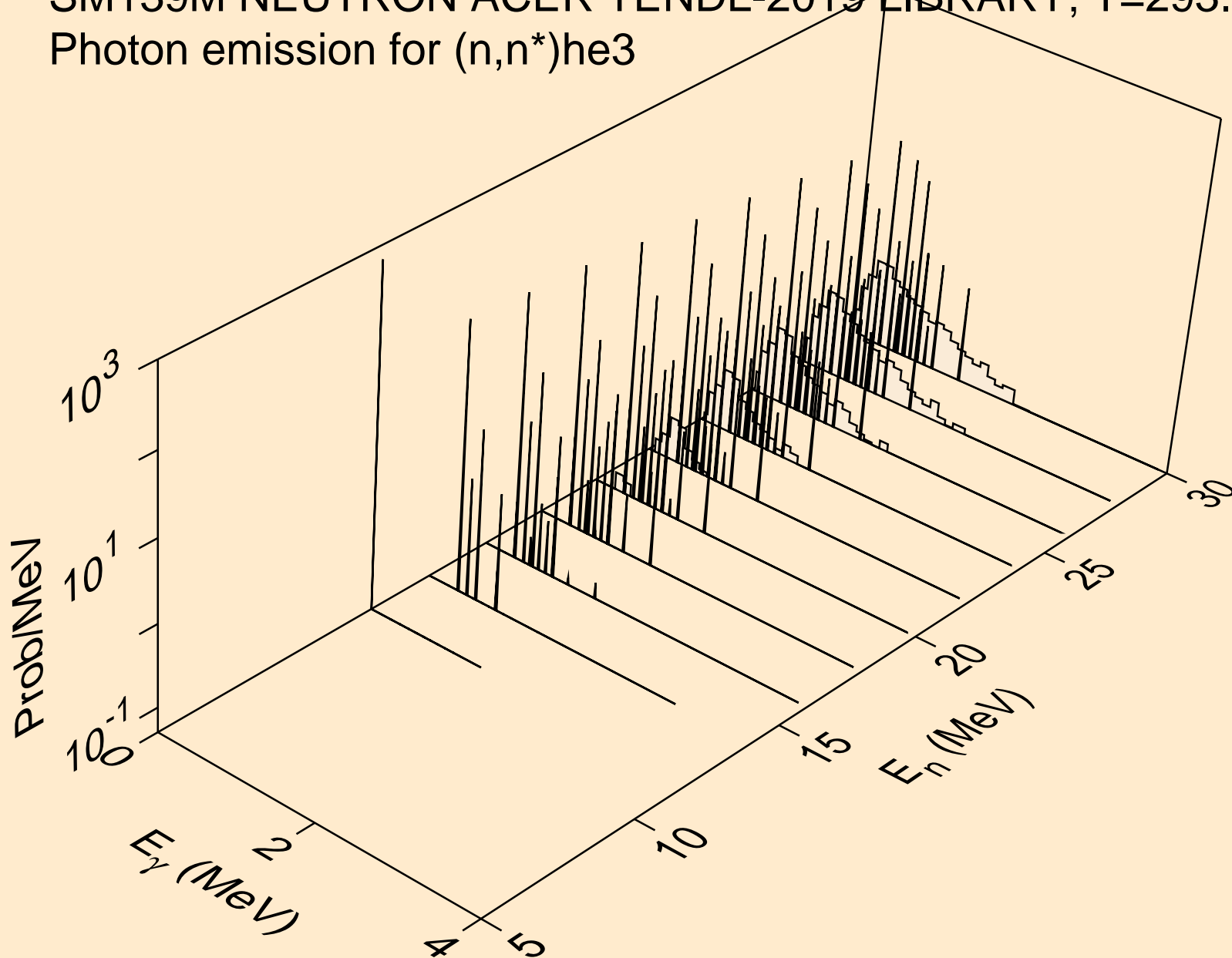
SM139M NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Photon emission for (n,n*)d



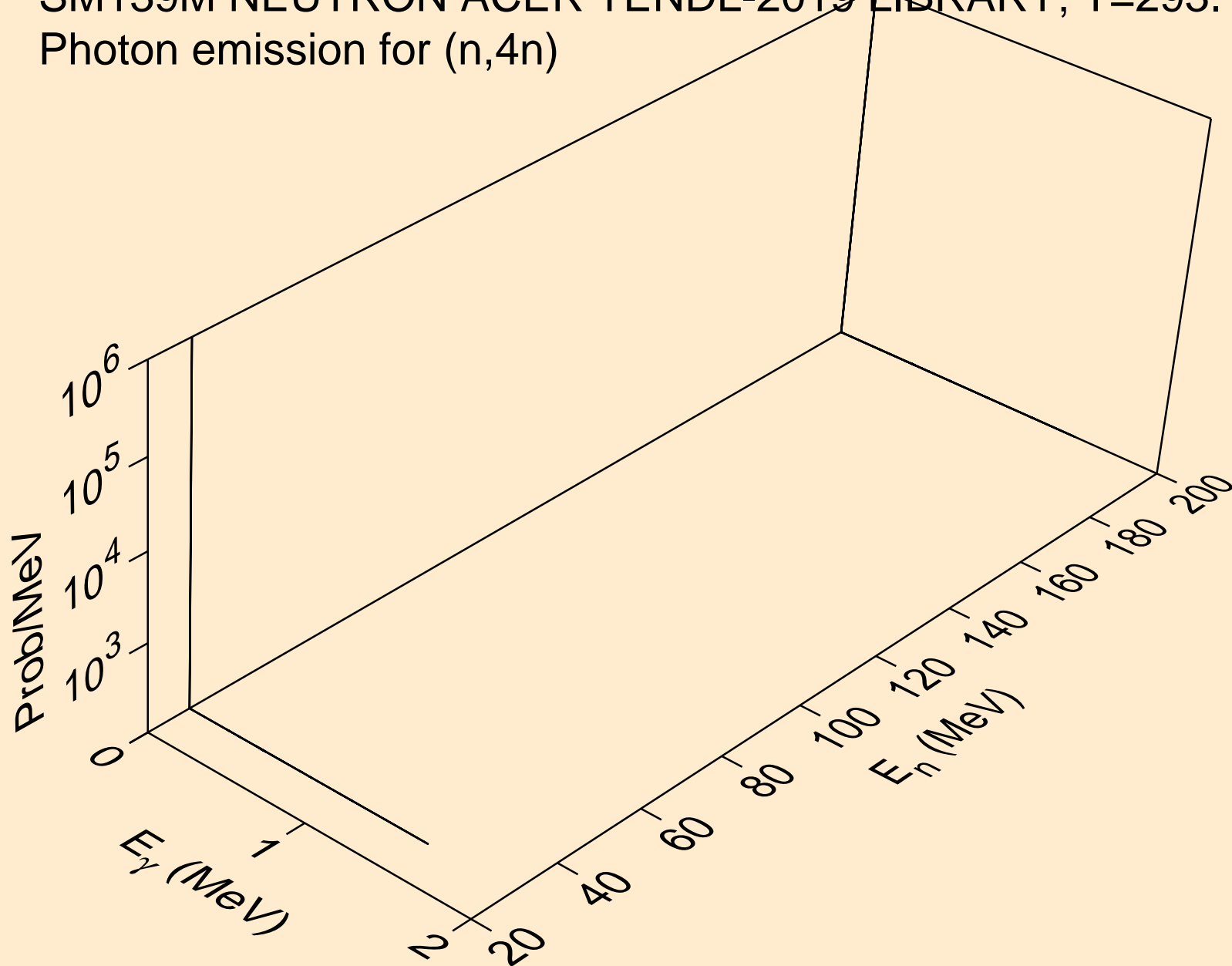
SM139M NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Photon emission for (n,n*)t



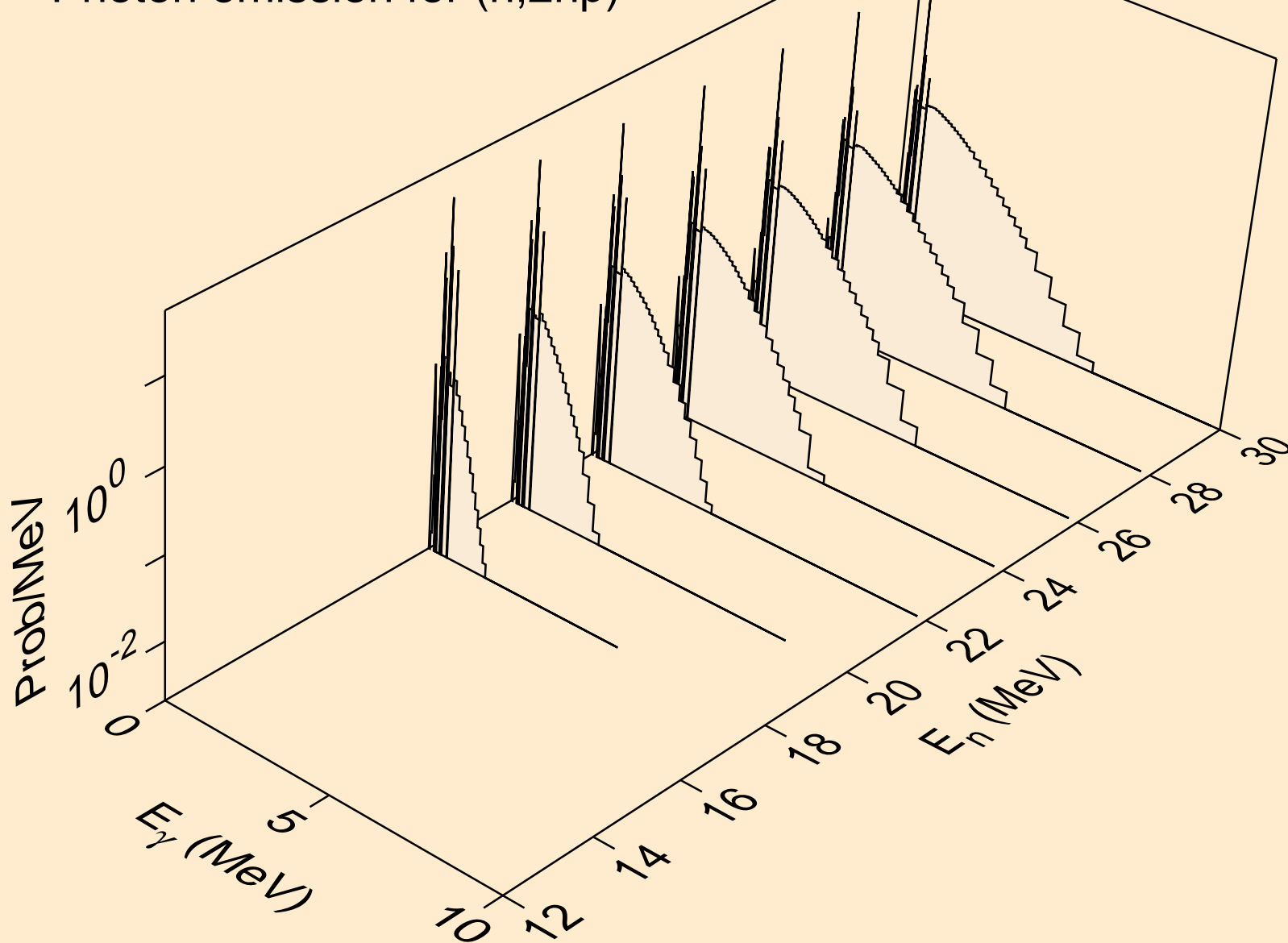
SM139M NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Photon emission for (n,n*)he3



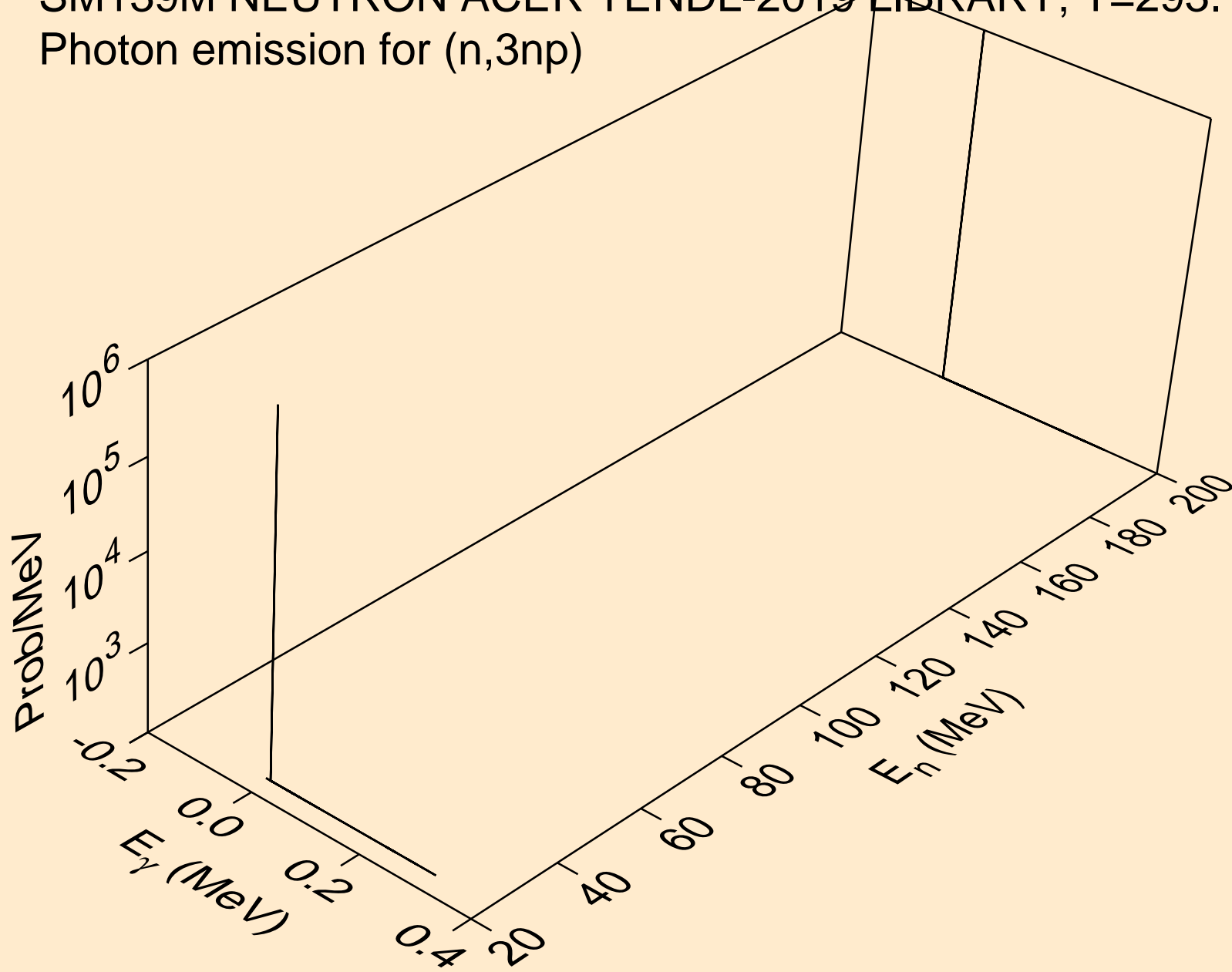
SM139M NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Photon emission for (n,4n)



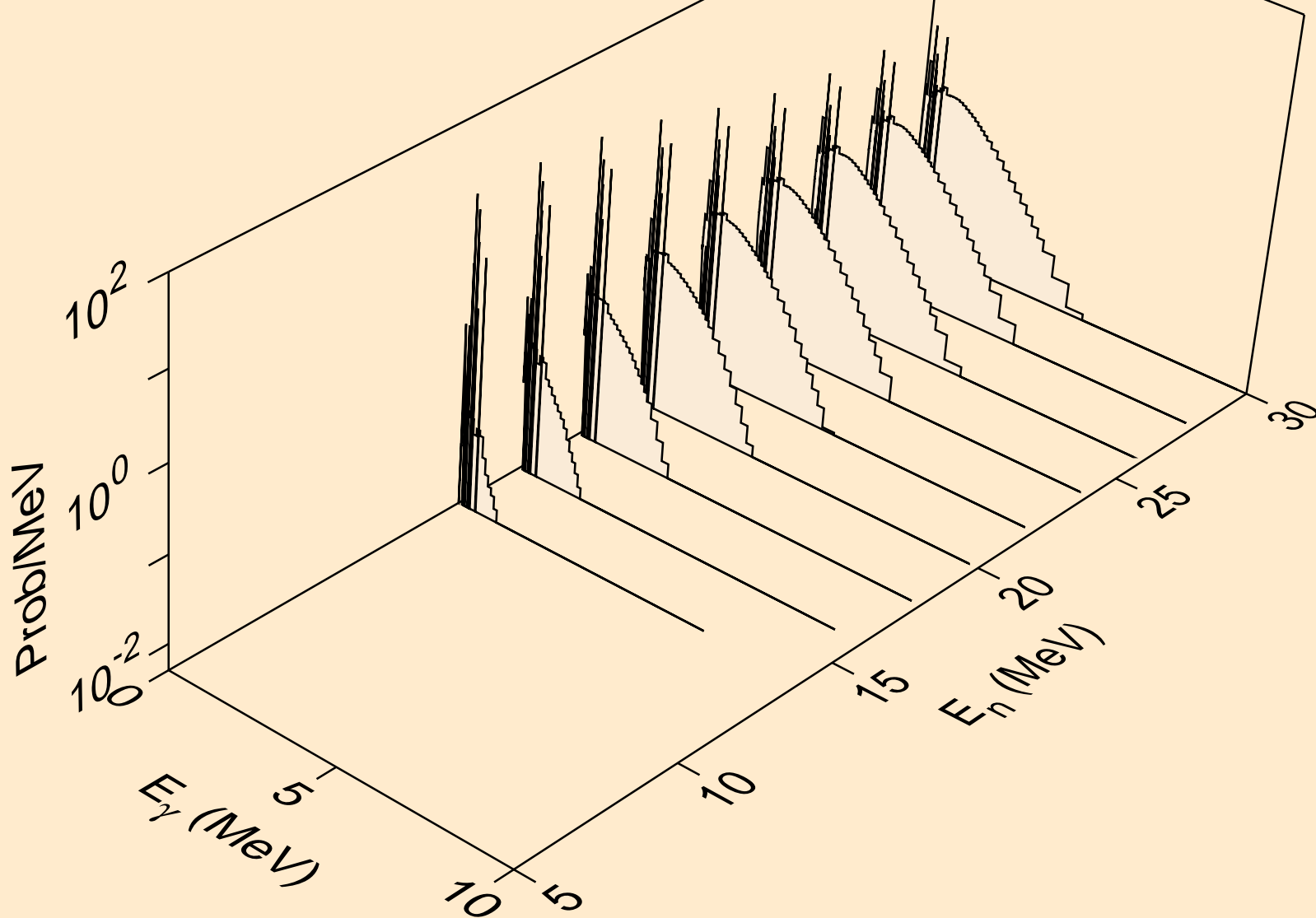
SM139M NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Photon emission for (n,2np)



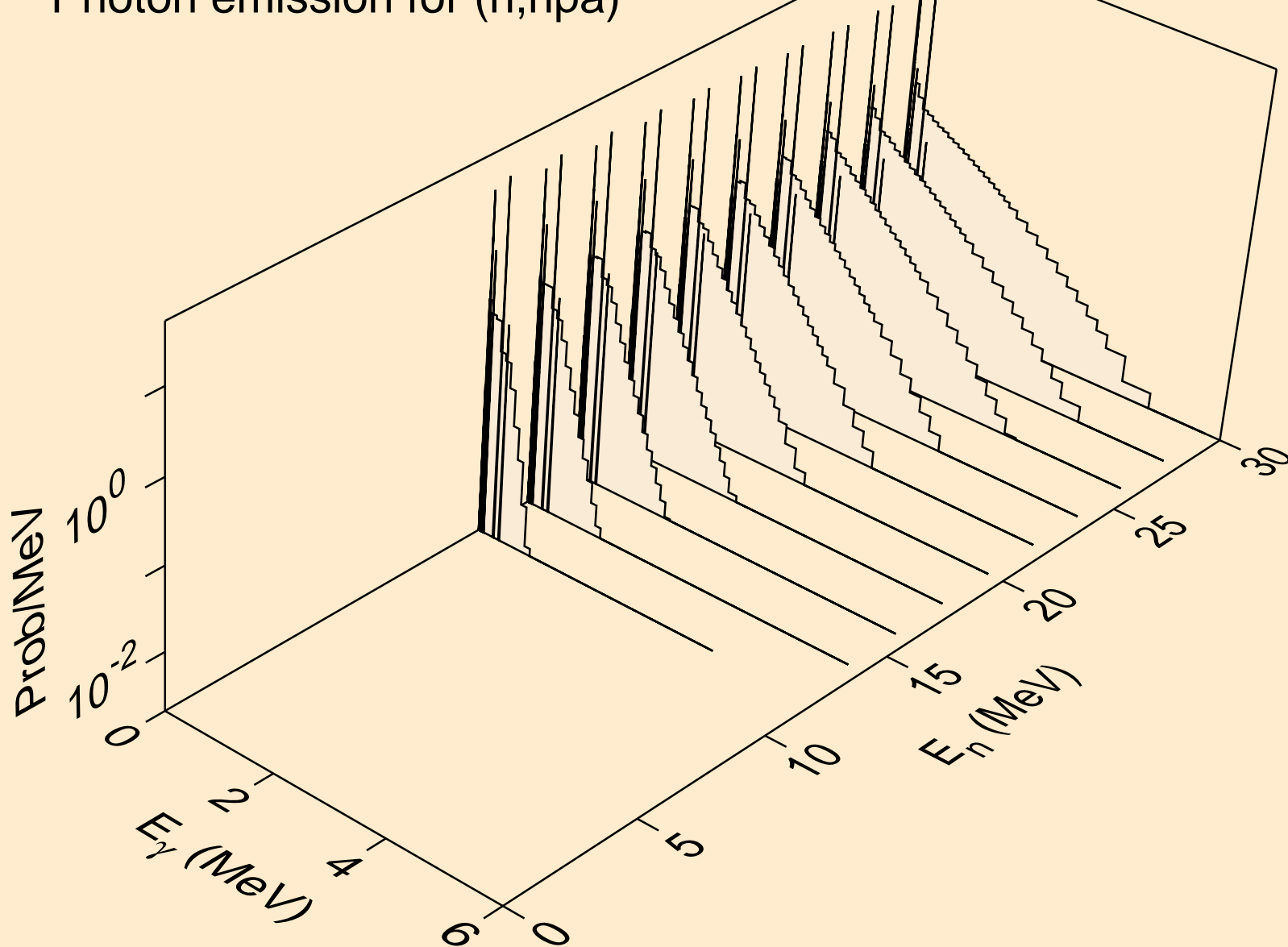
SM139M NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Photon emission for (n,3np)



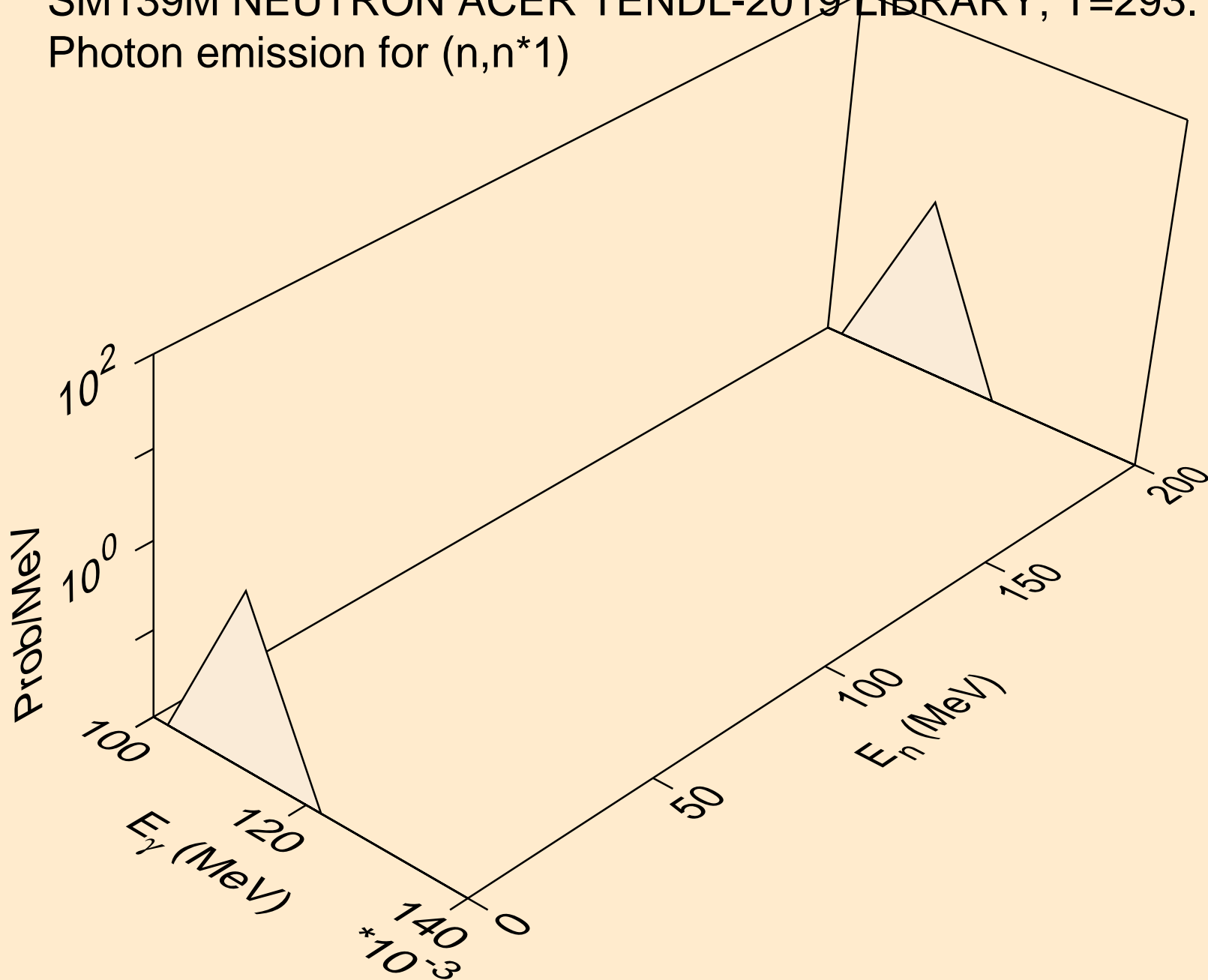
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Photon emission for (n,2np)



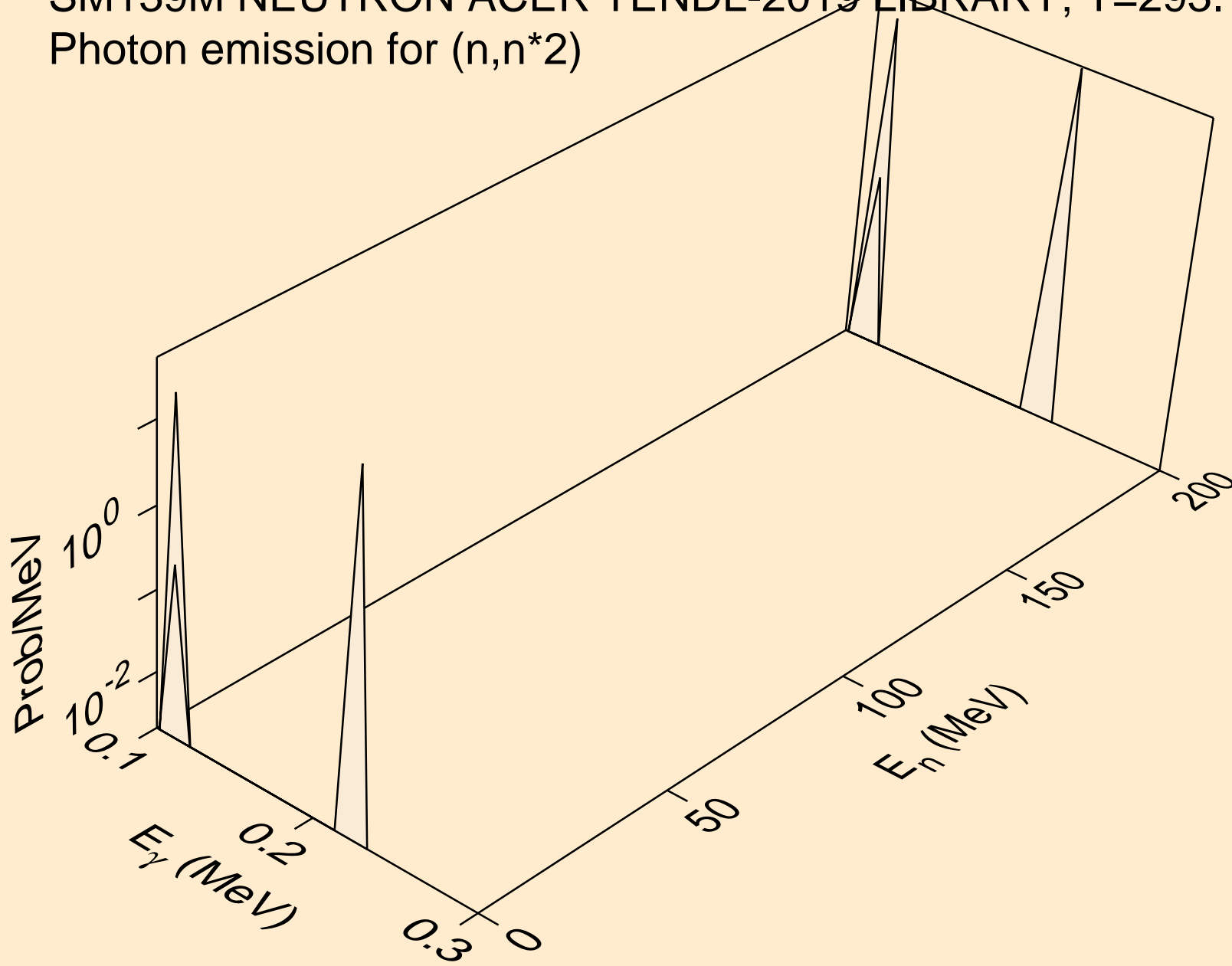
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Photon emission for (n,npa)



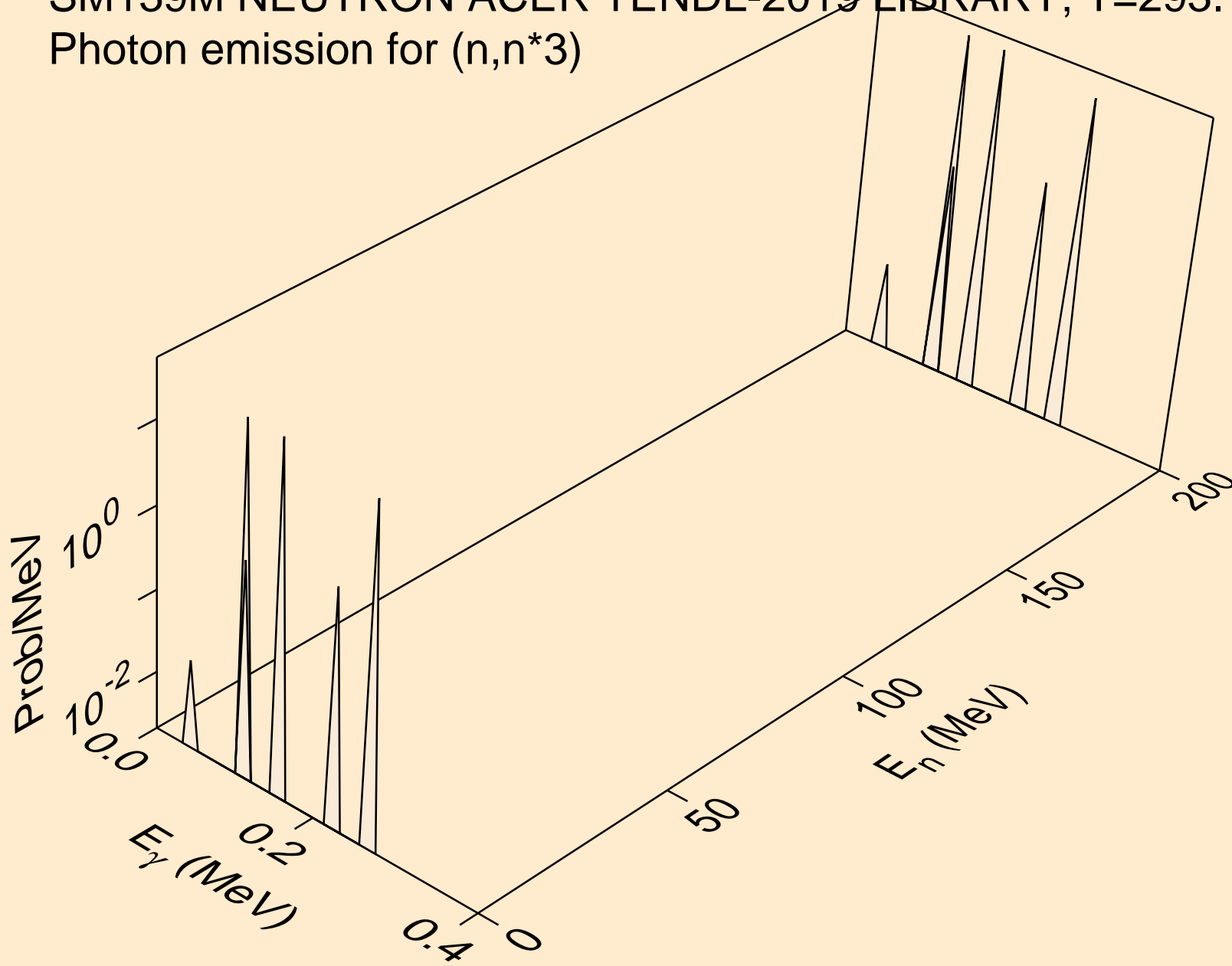
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Photon emission for (n,n*1)



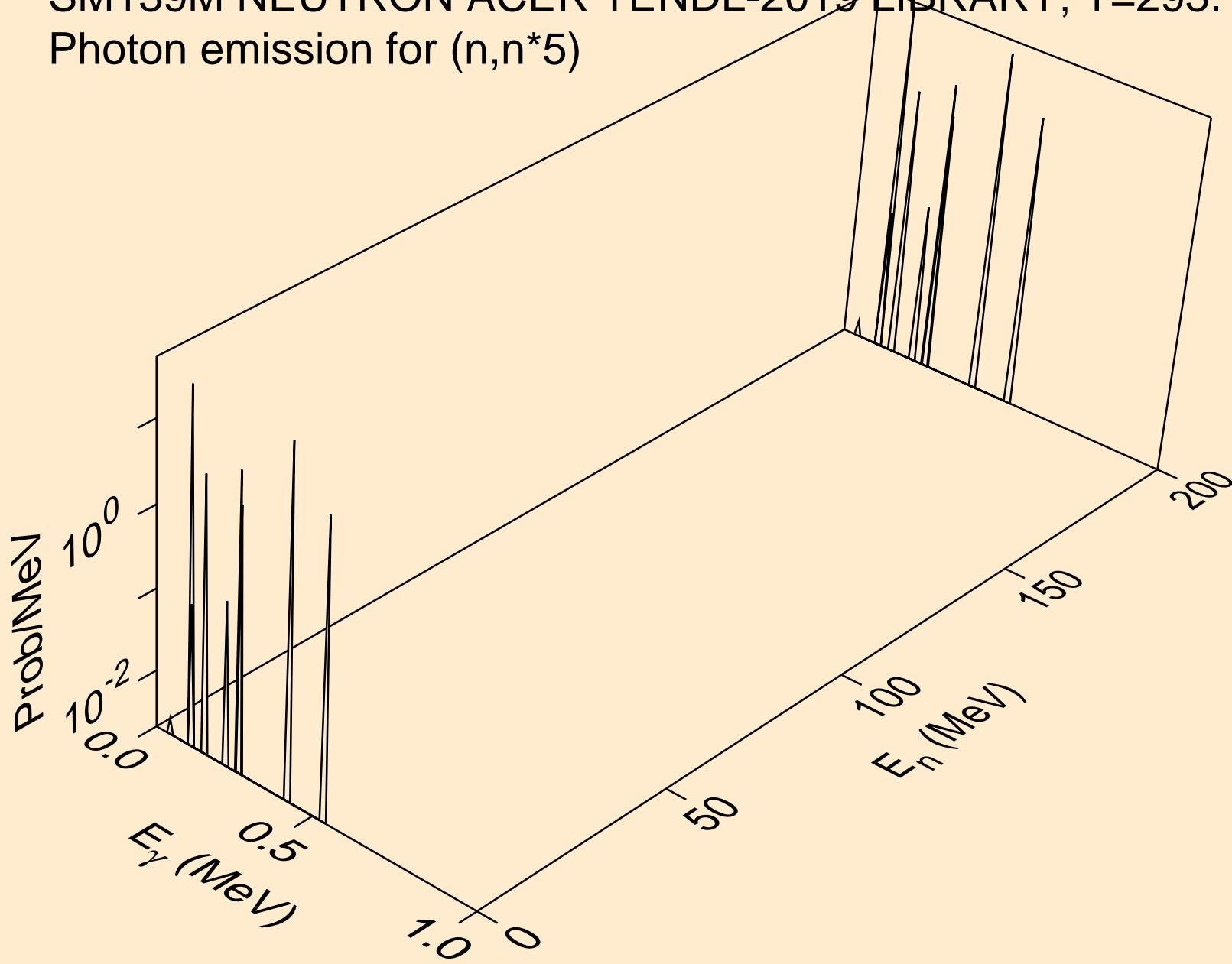
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Photon emission for (n,n*2)



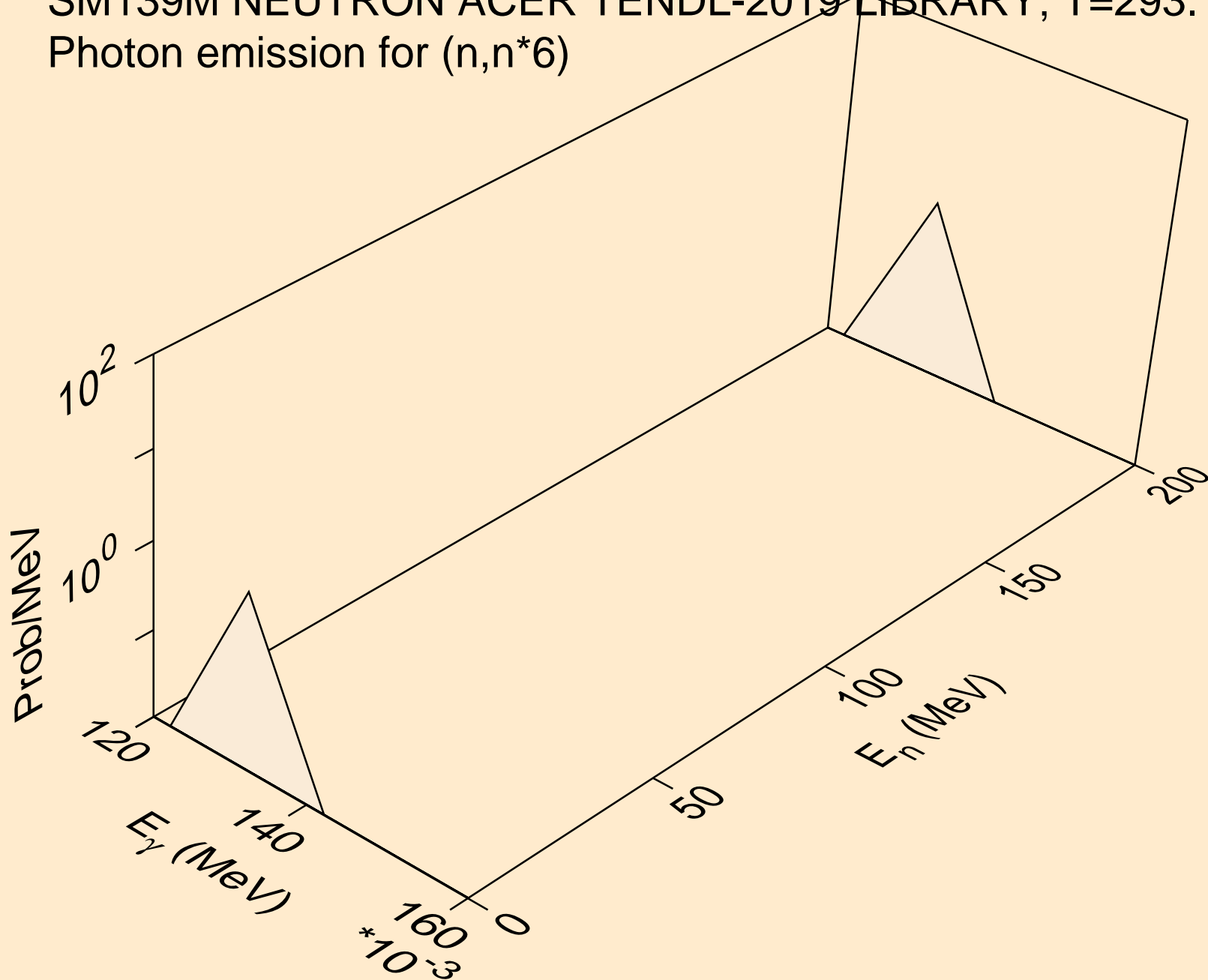
SM139M NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Photon emission for (n,n*3)



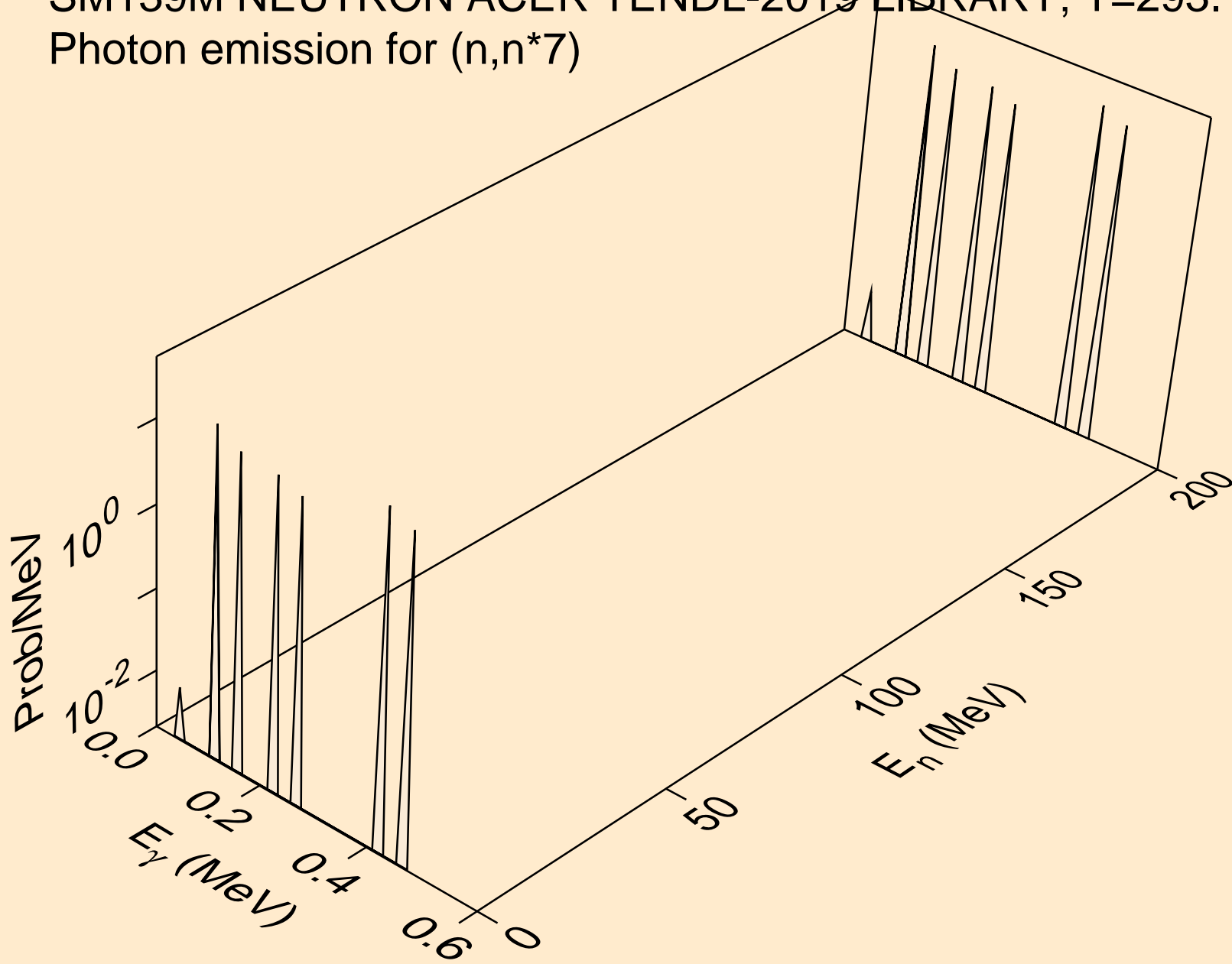
SM139M NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Photon emission for (n,n*5)



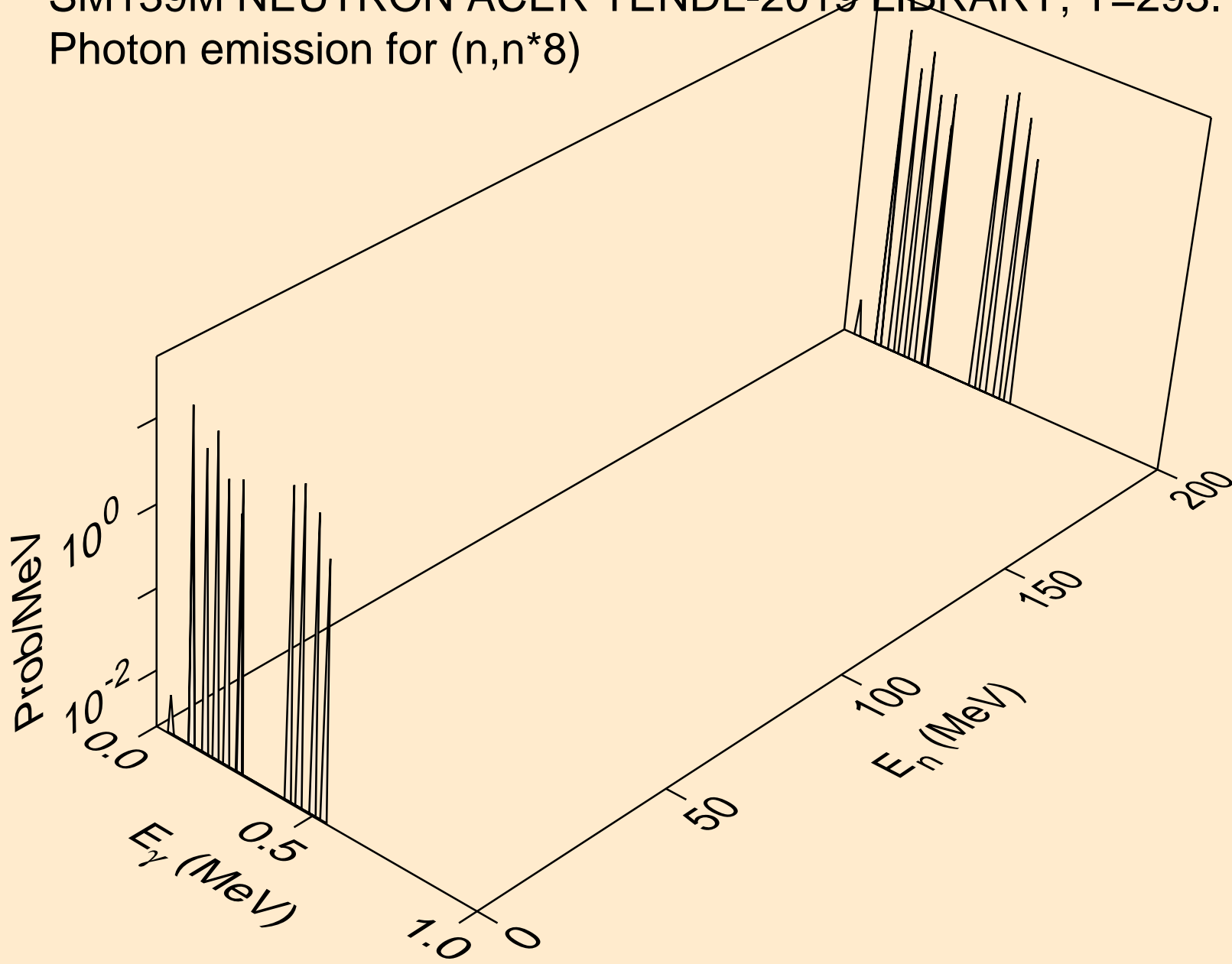
SM139M NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Photon emission for (n,n*6)



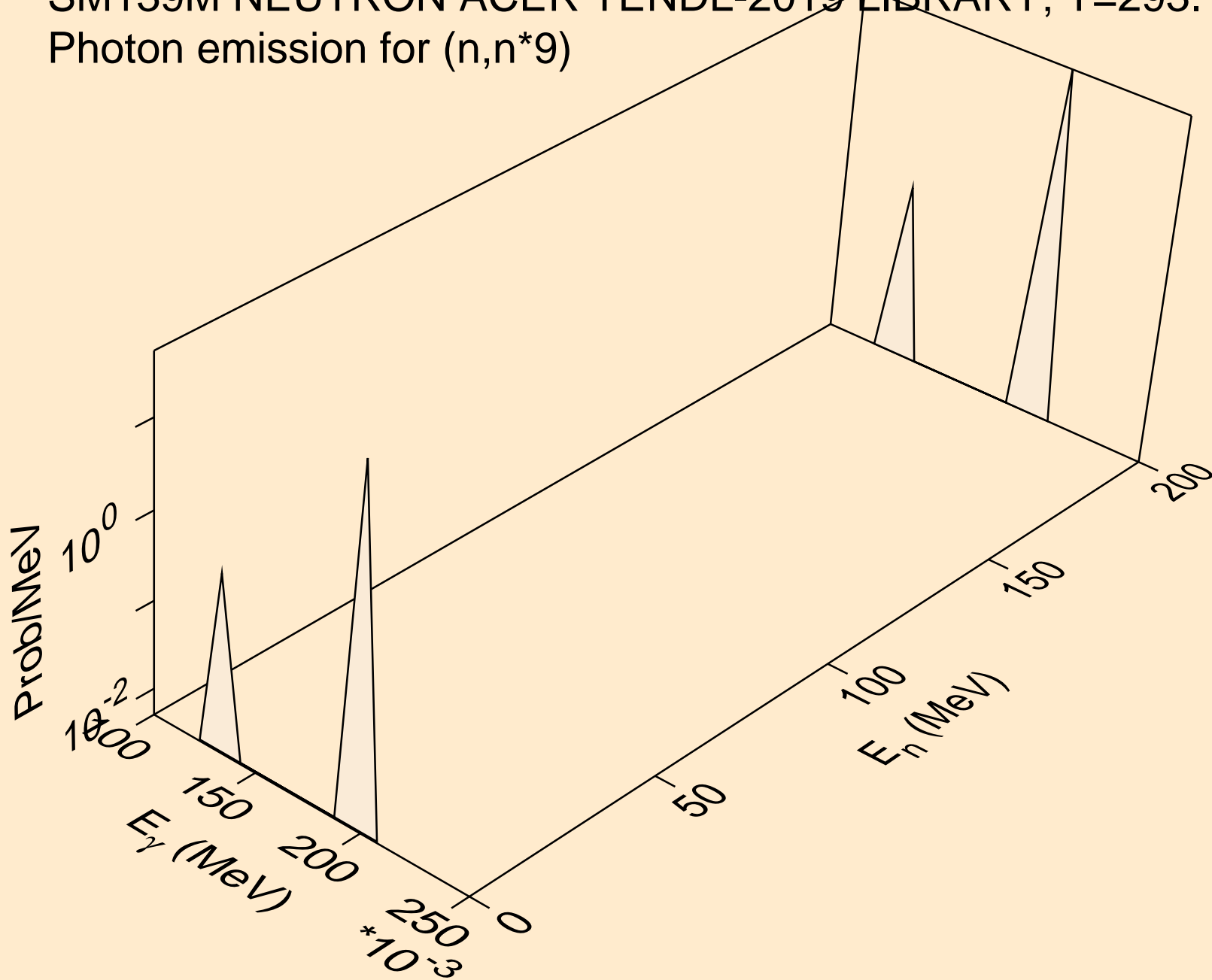
SM139M NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Photon emission for (n,n*7)



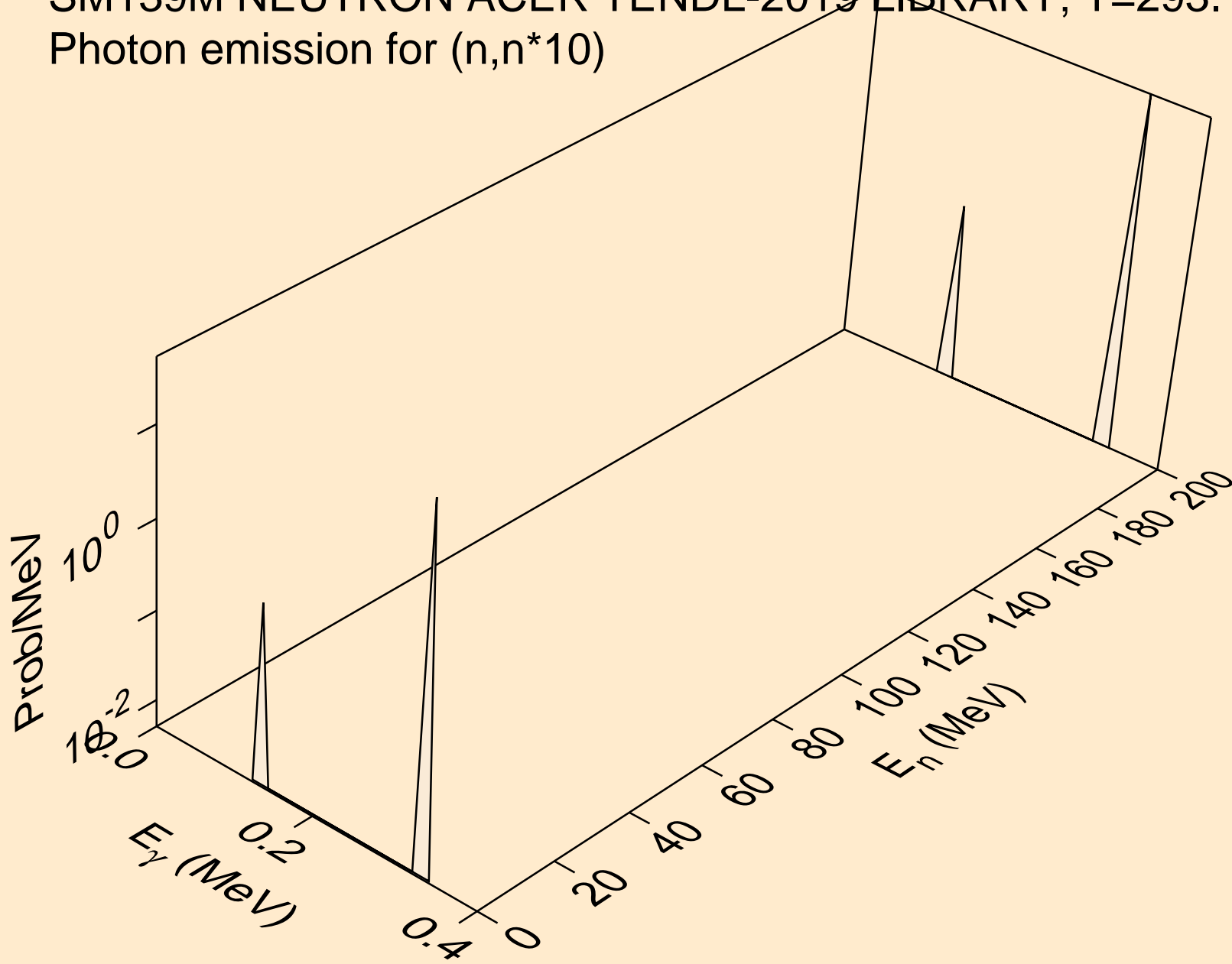
SM139M NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Photon emission for (n,n*8)



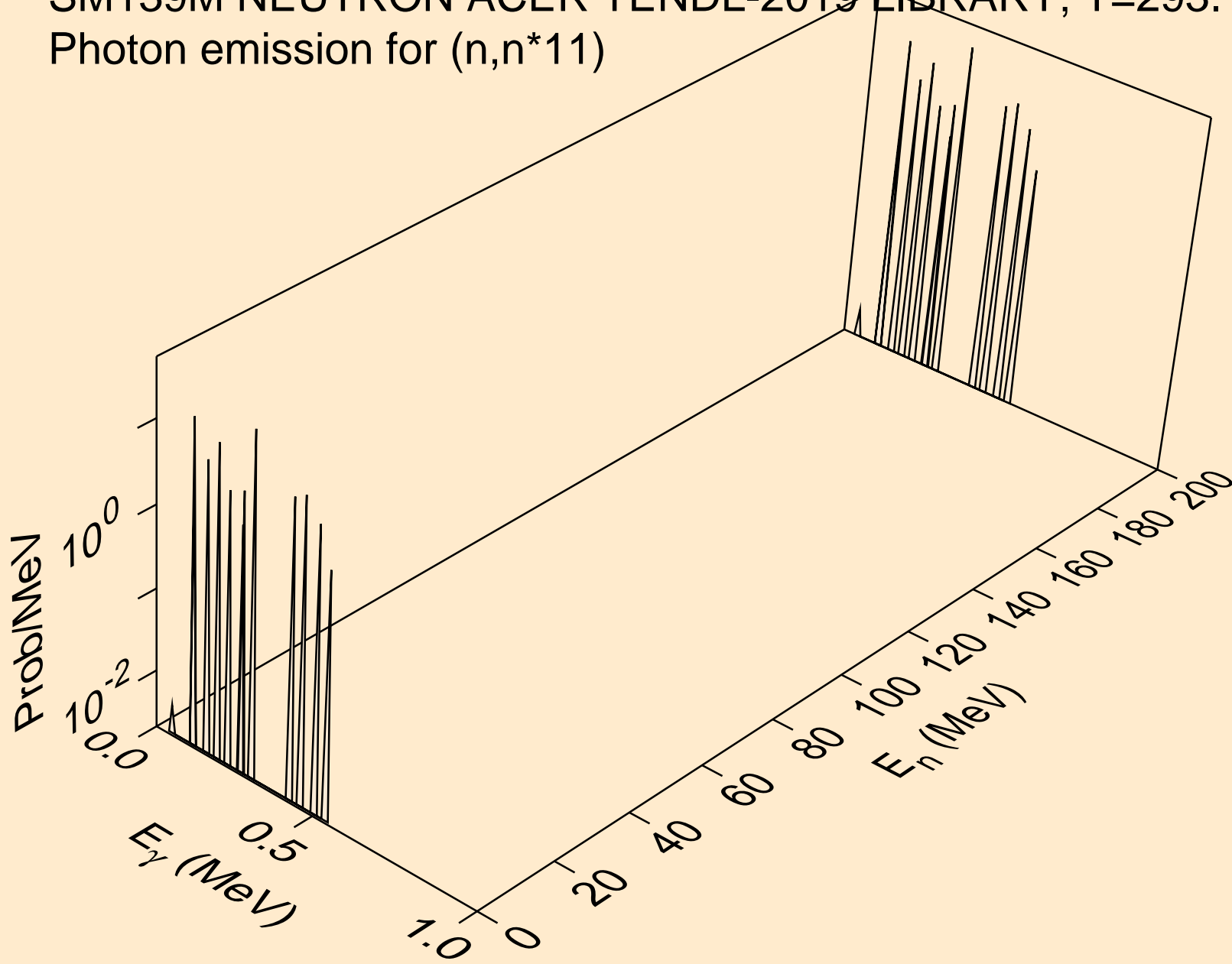
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Photon emission for (n,n*9)



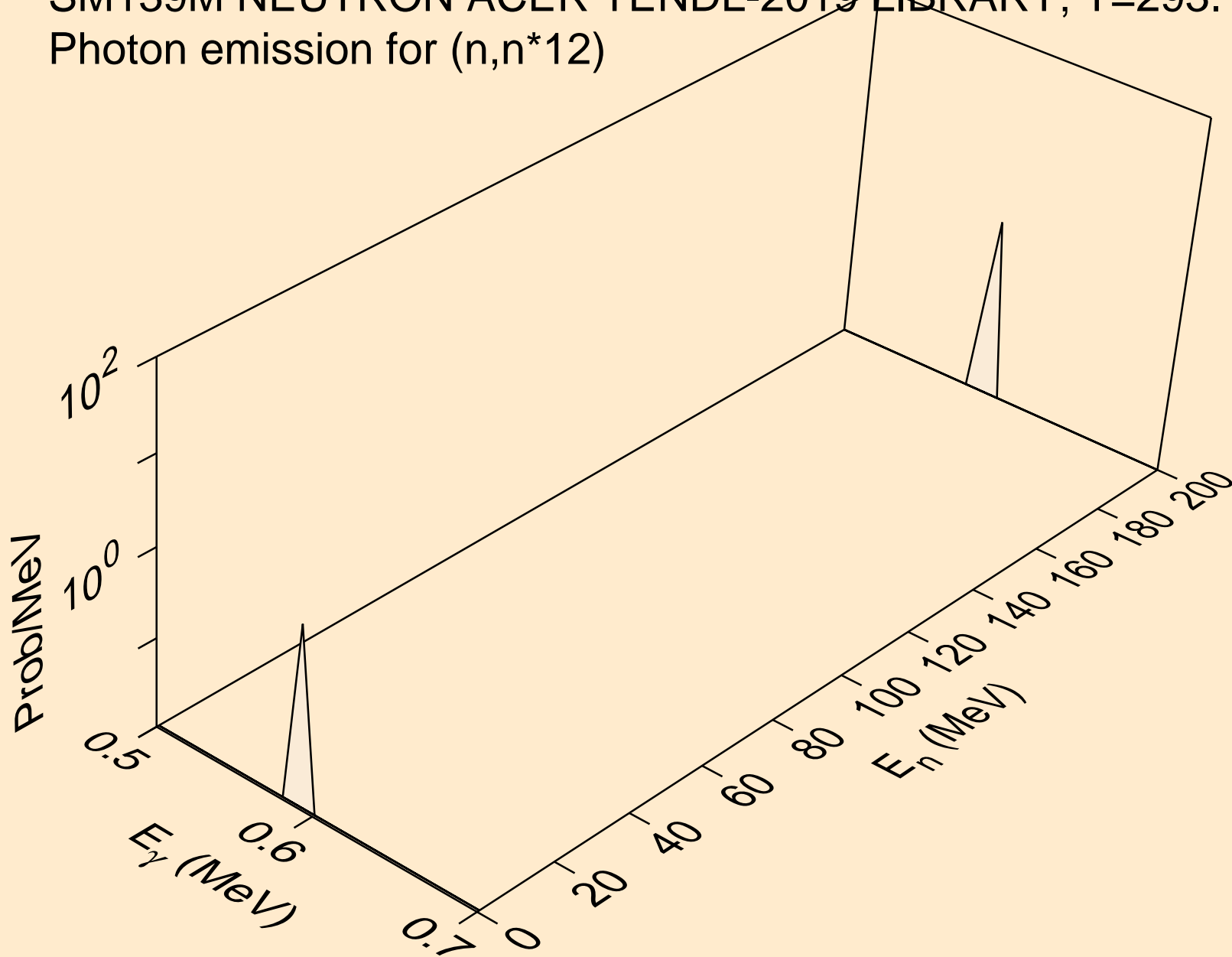
SM139M NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Photon emission for (n,n*10)



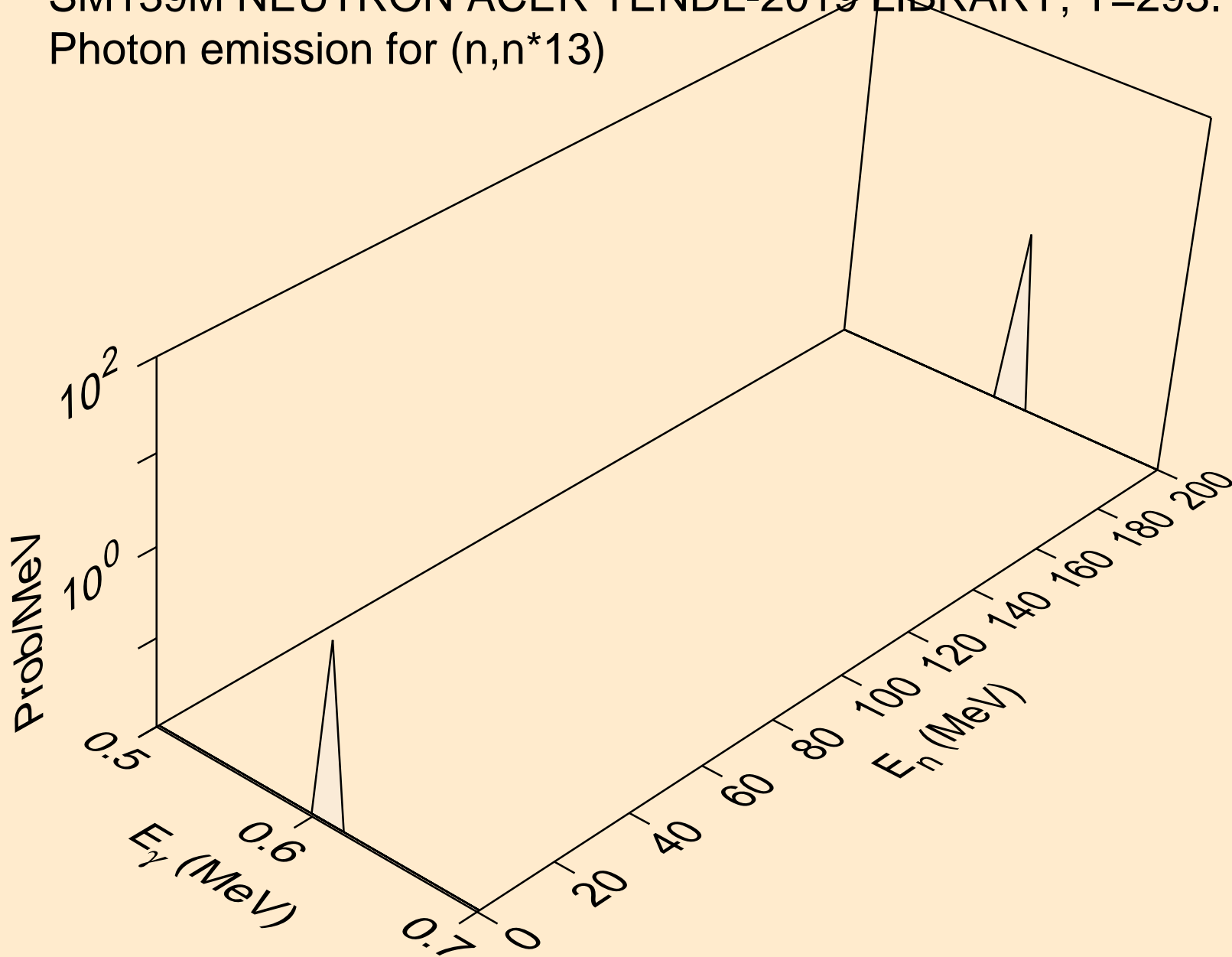
SM139M NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Photon emission for (n,n*11)



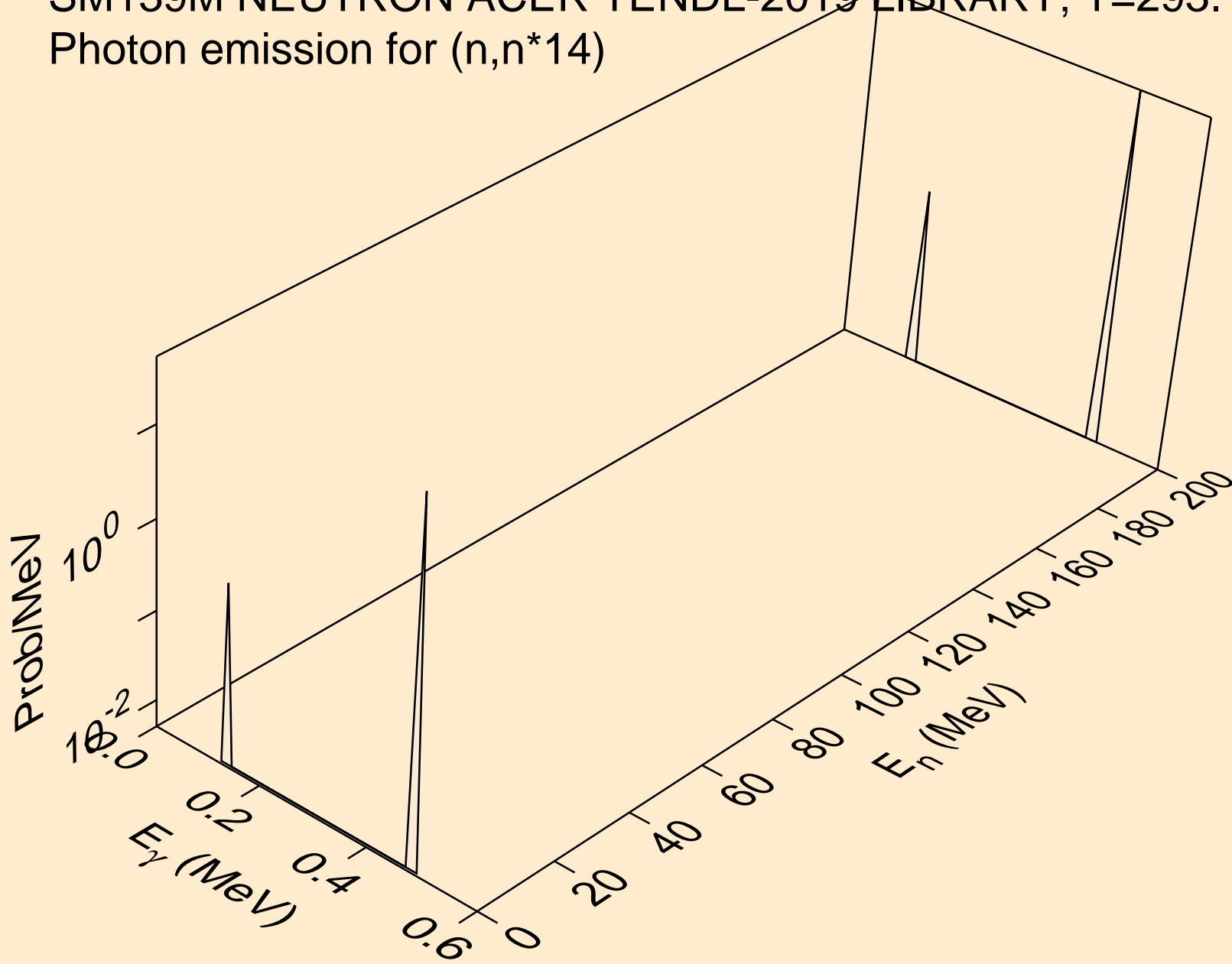
SM139M NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Photon emission for (n,n*12)



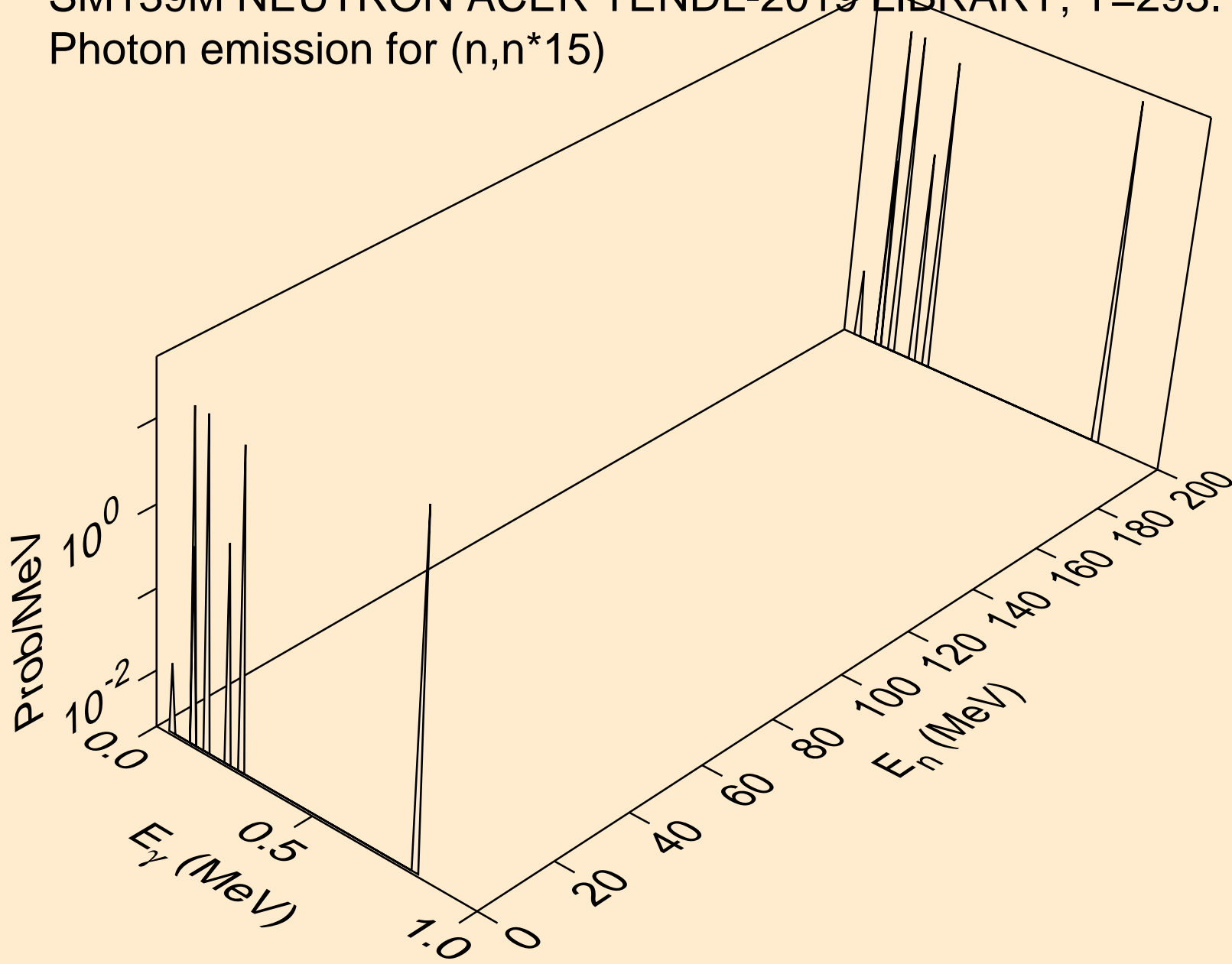
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Photon emission for (n,n*13)



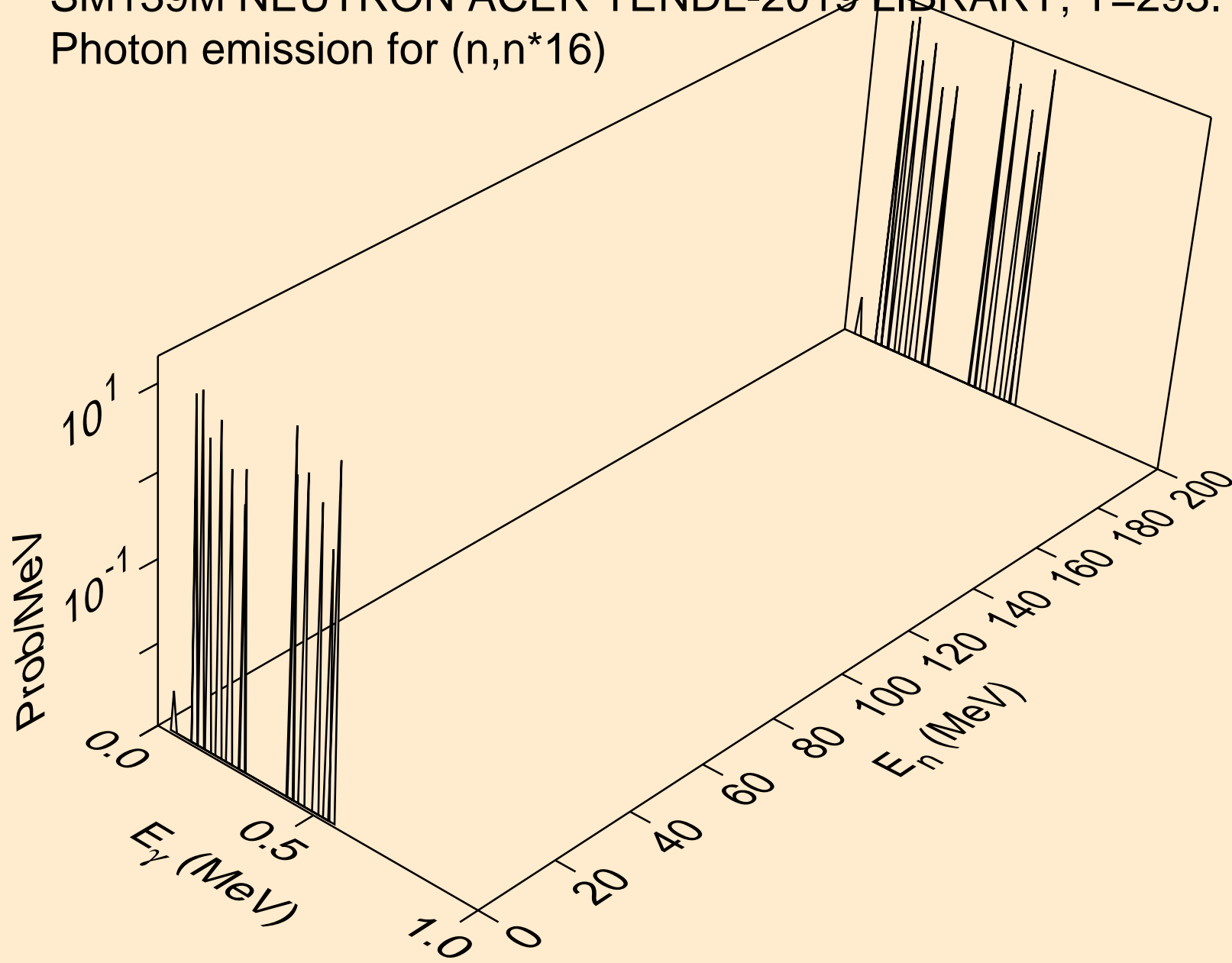
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Photon emission for (n,n*14)



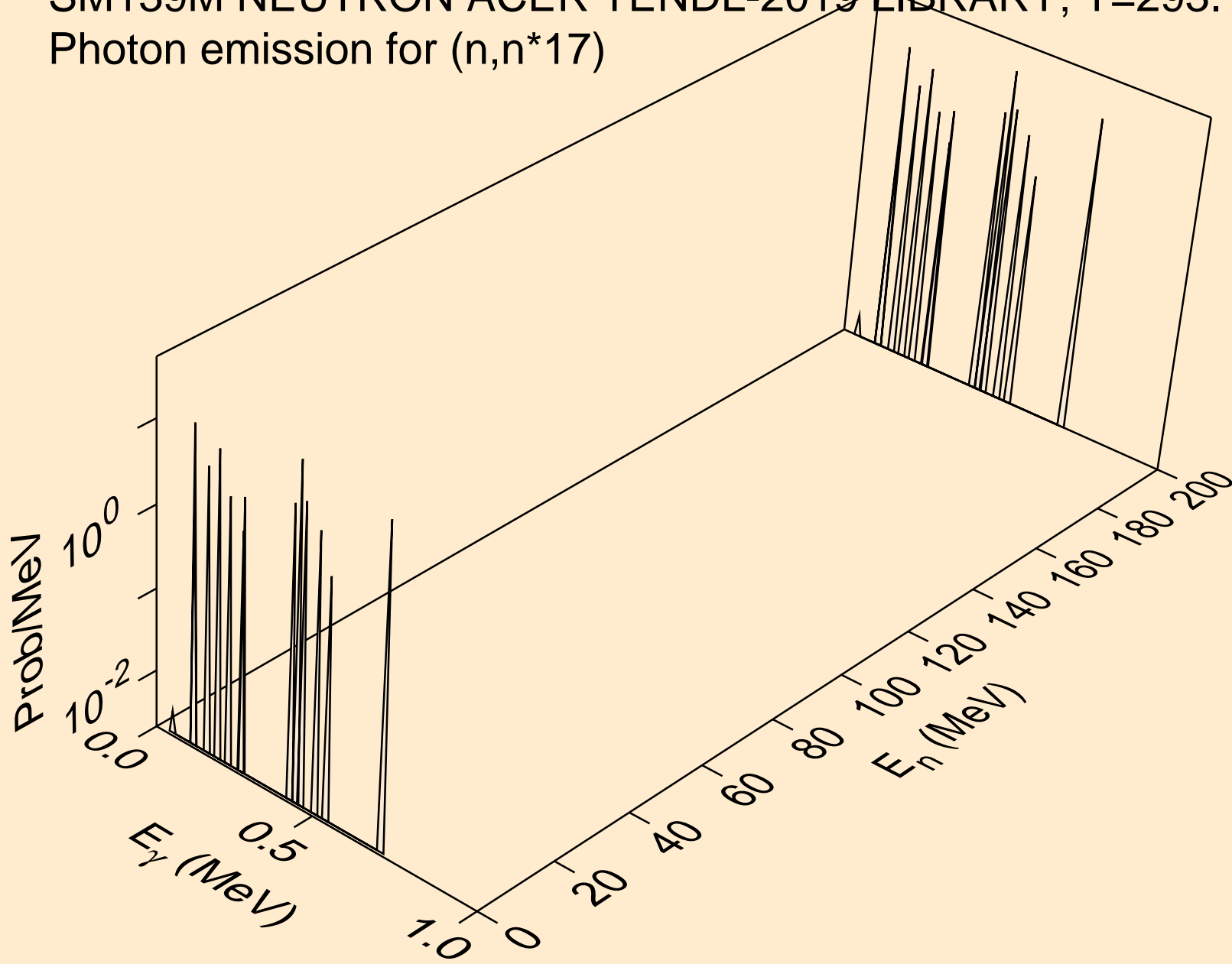
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Photon emission for (n,n*15)



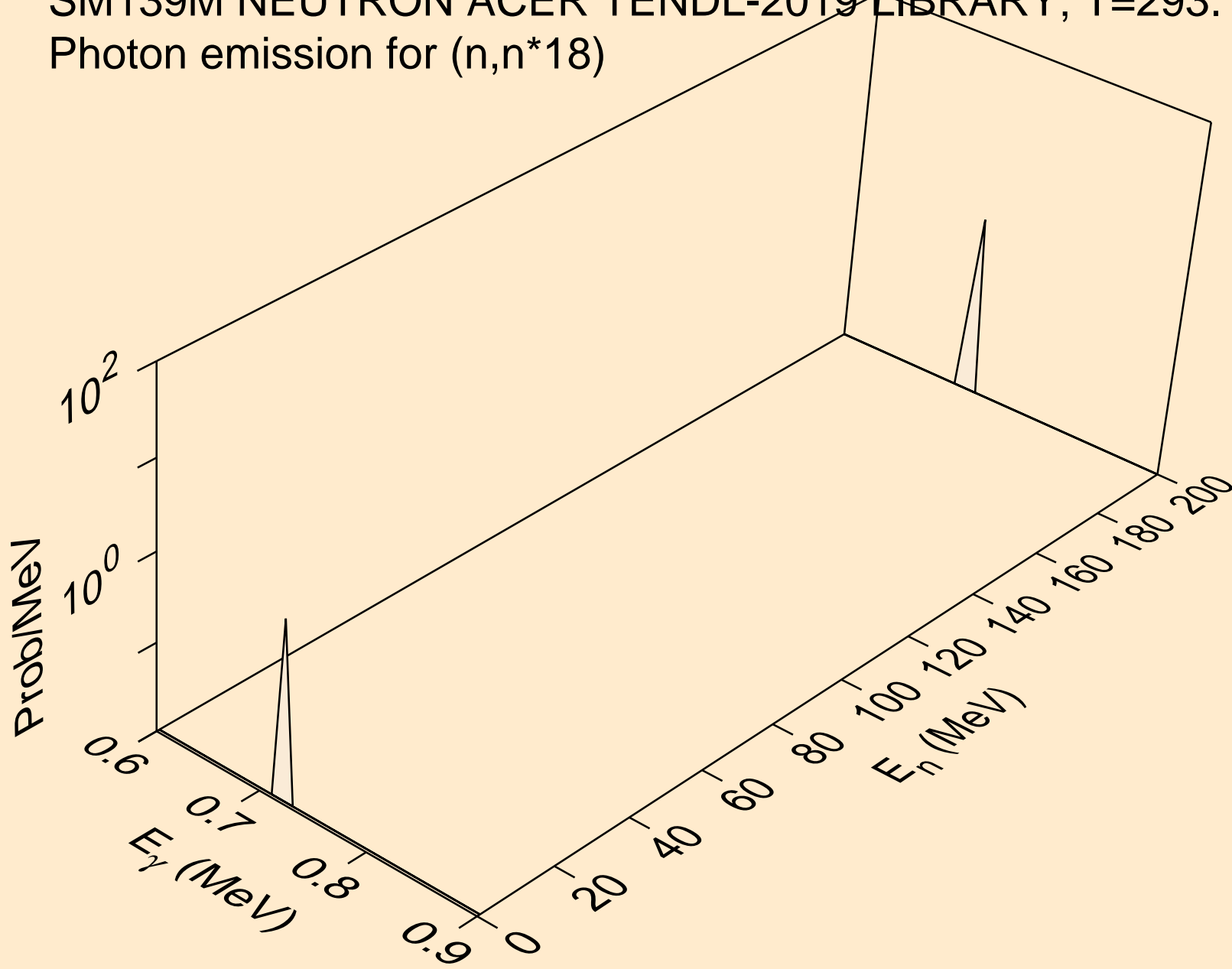
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Photon emission for (n,n*16)



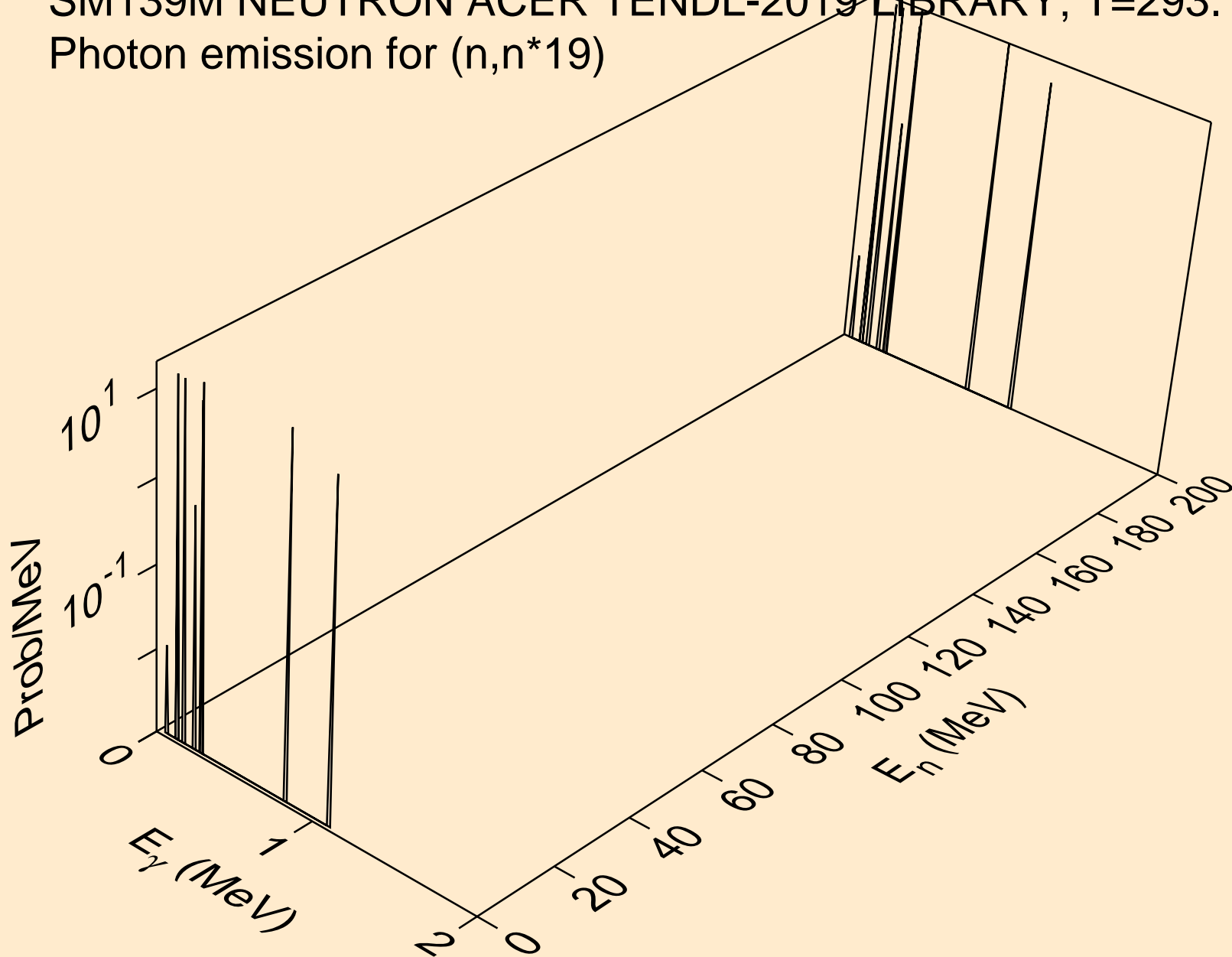
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Photon emission for (n,n*17)



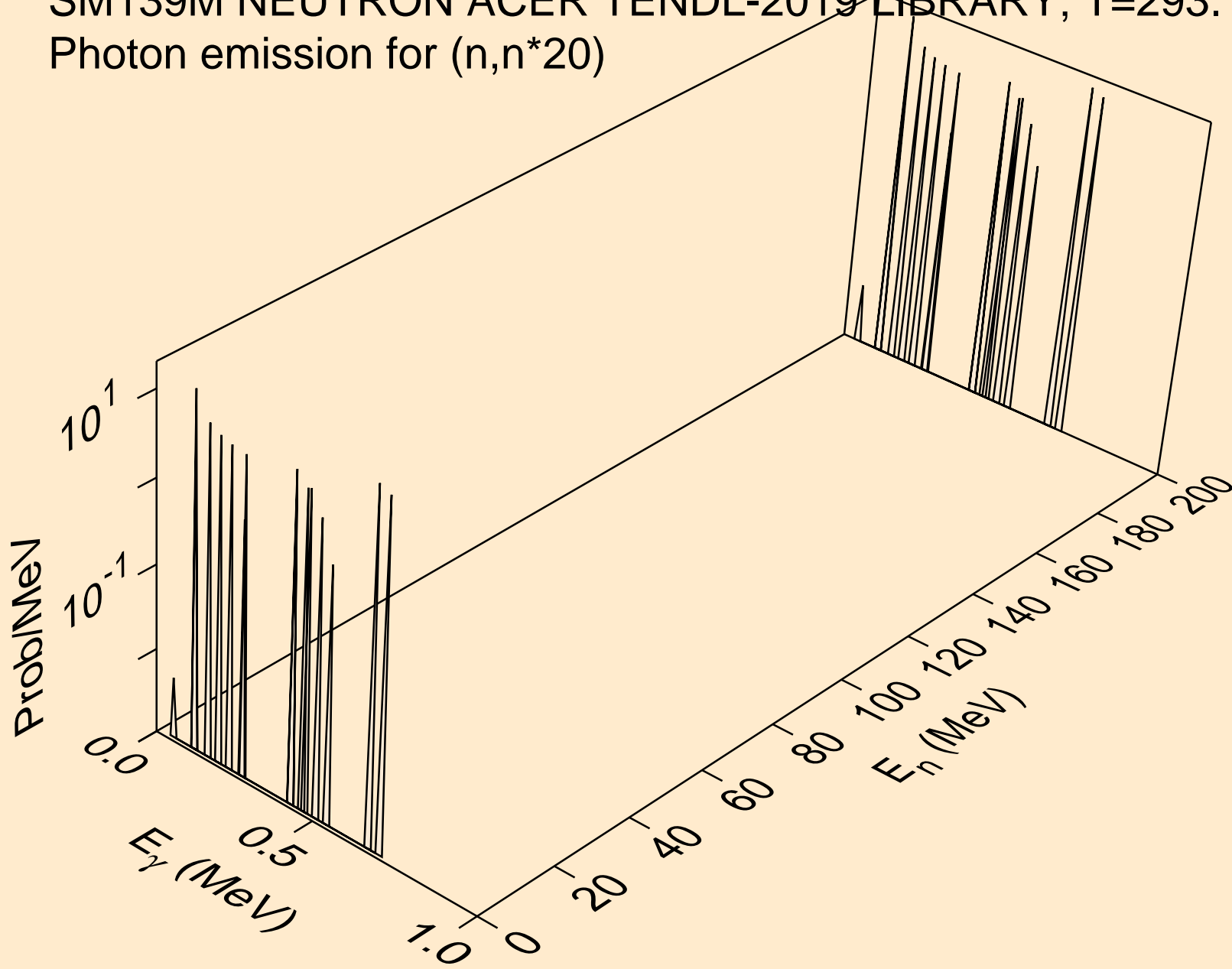
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Photon emission for (n,n*18)



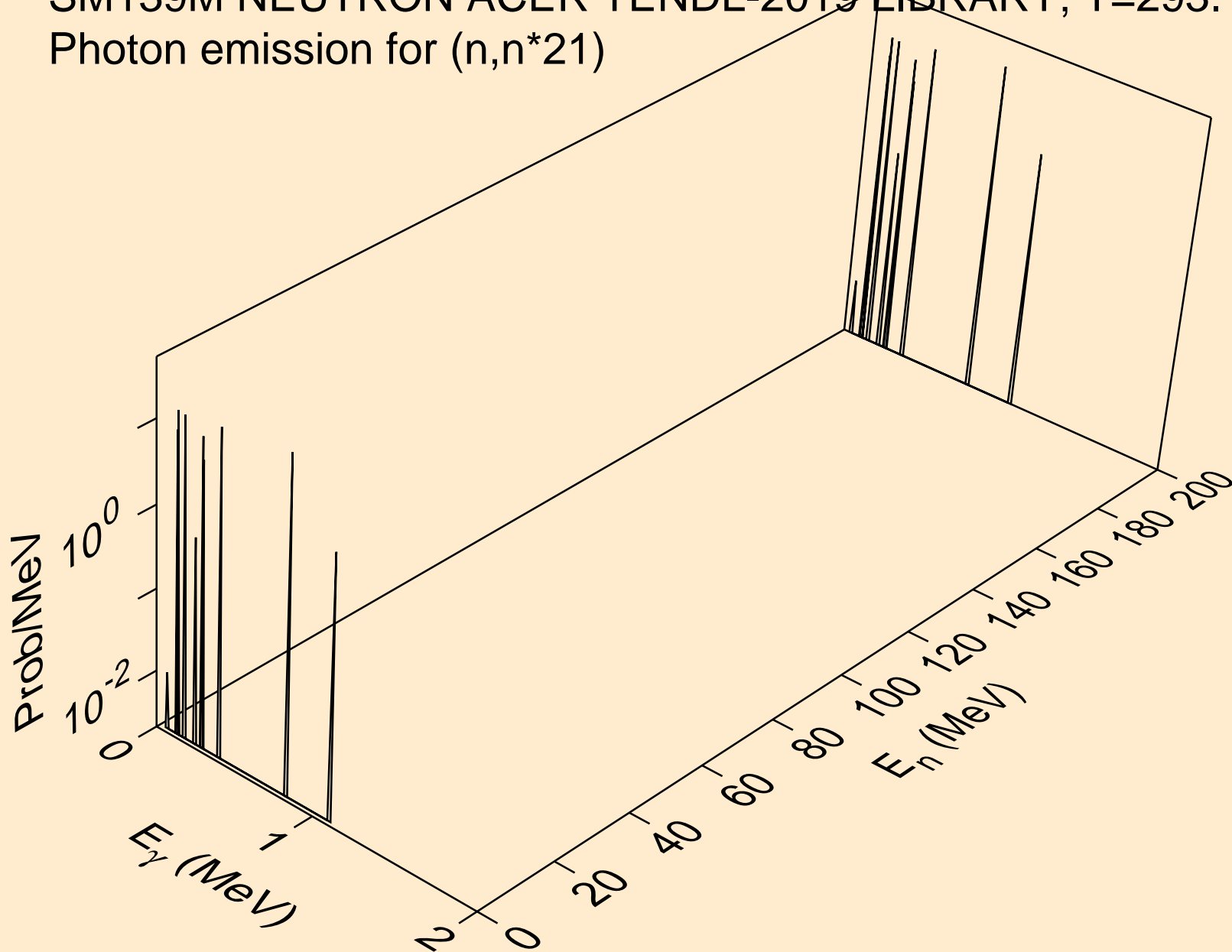
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Photon emission for (n,n*19)



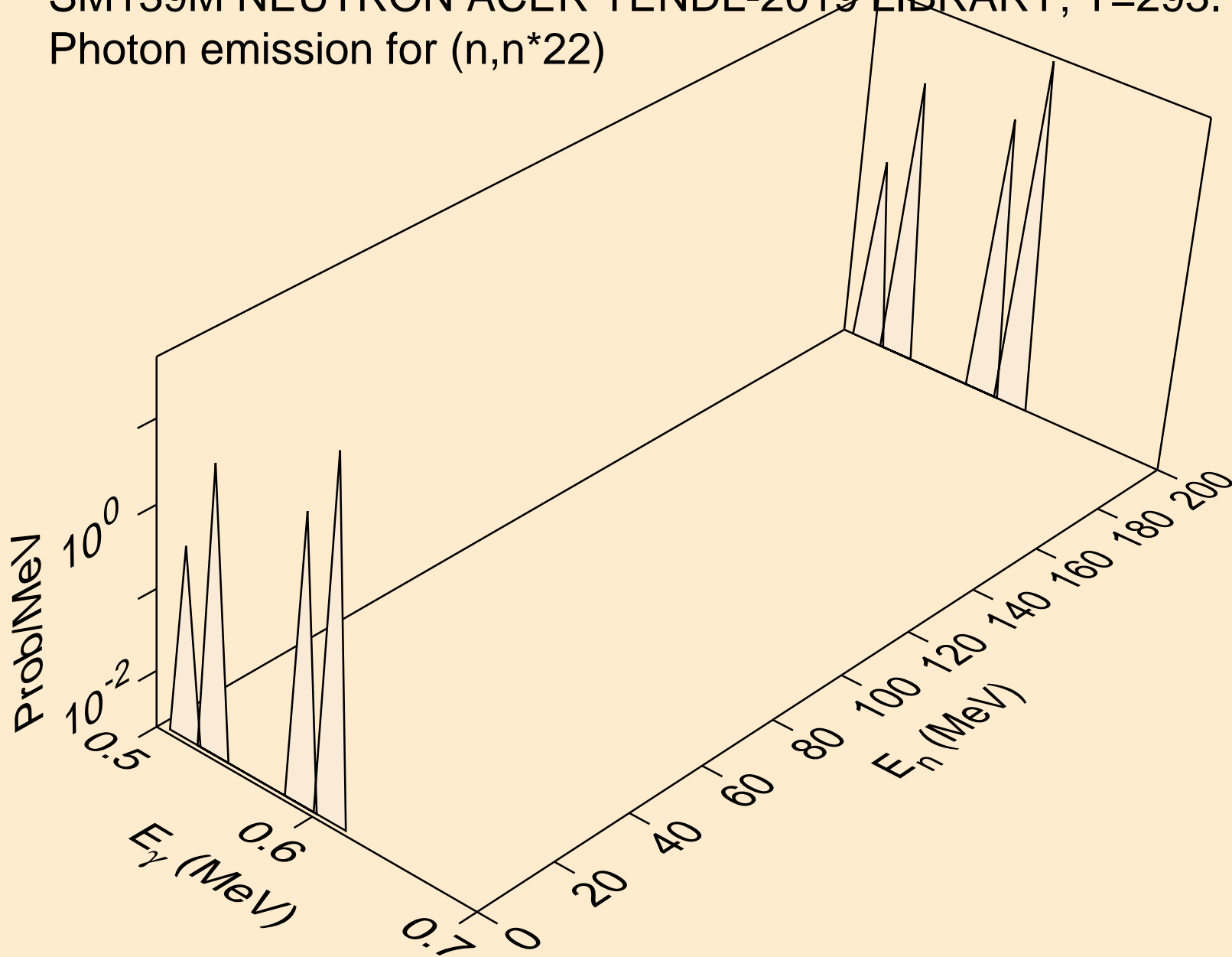
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Photon emission for (n,n*20)



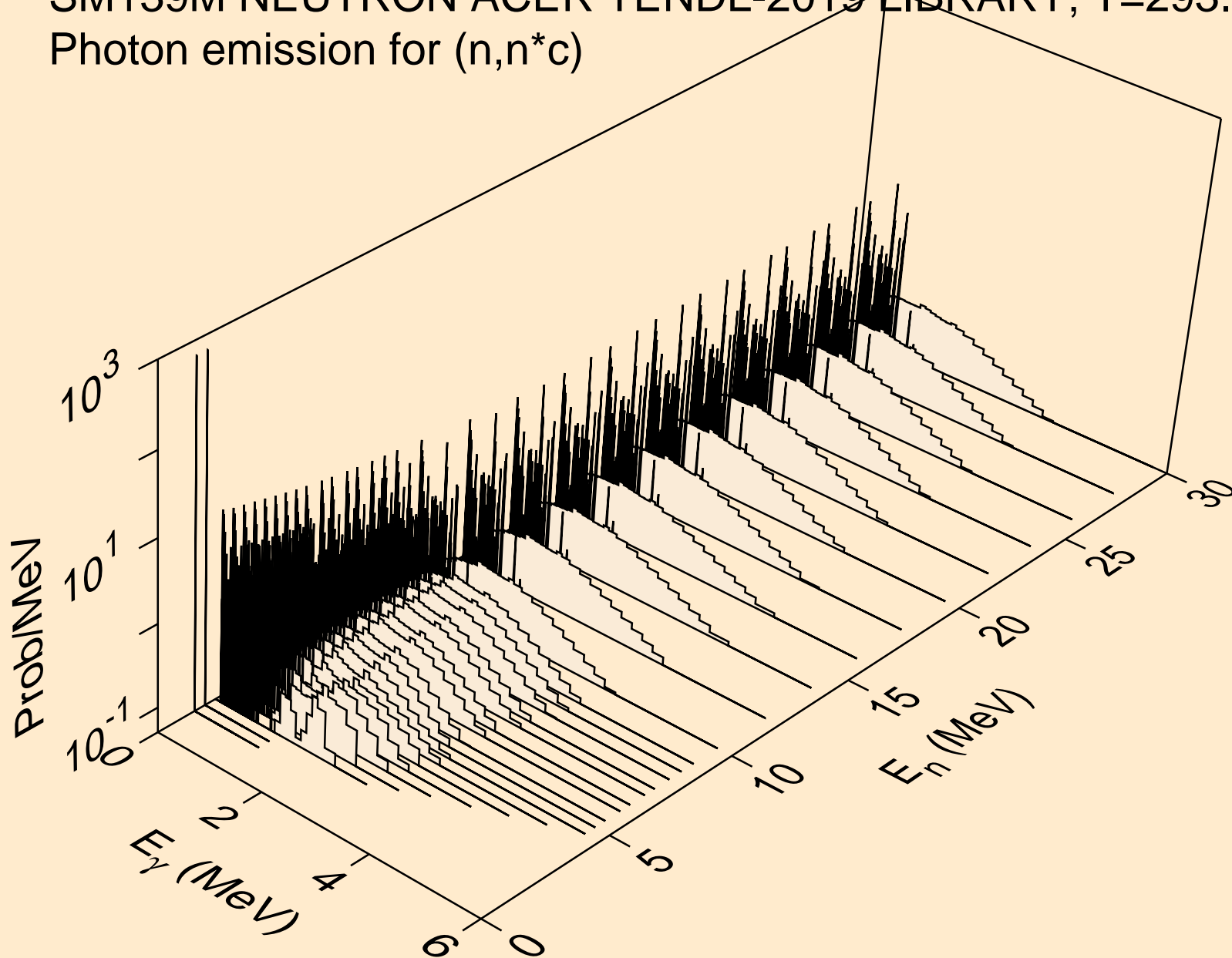
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Photon emission for (n,n*21)



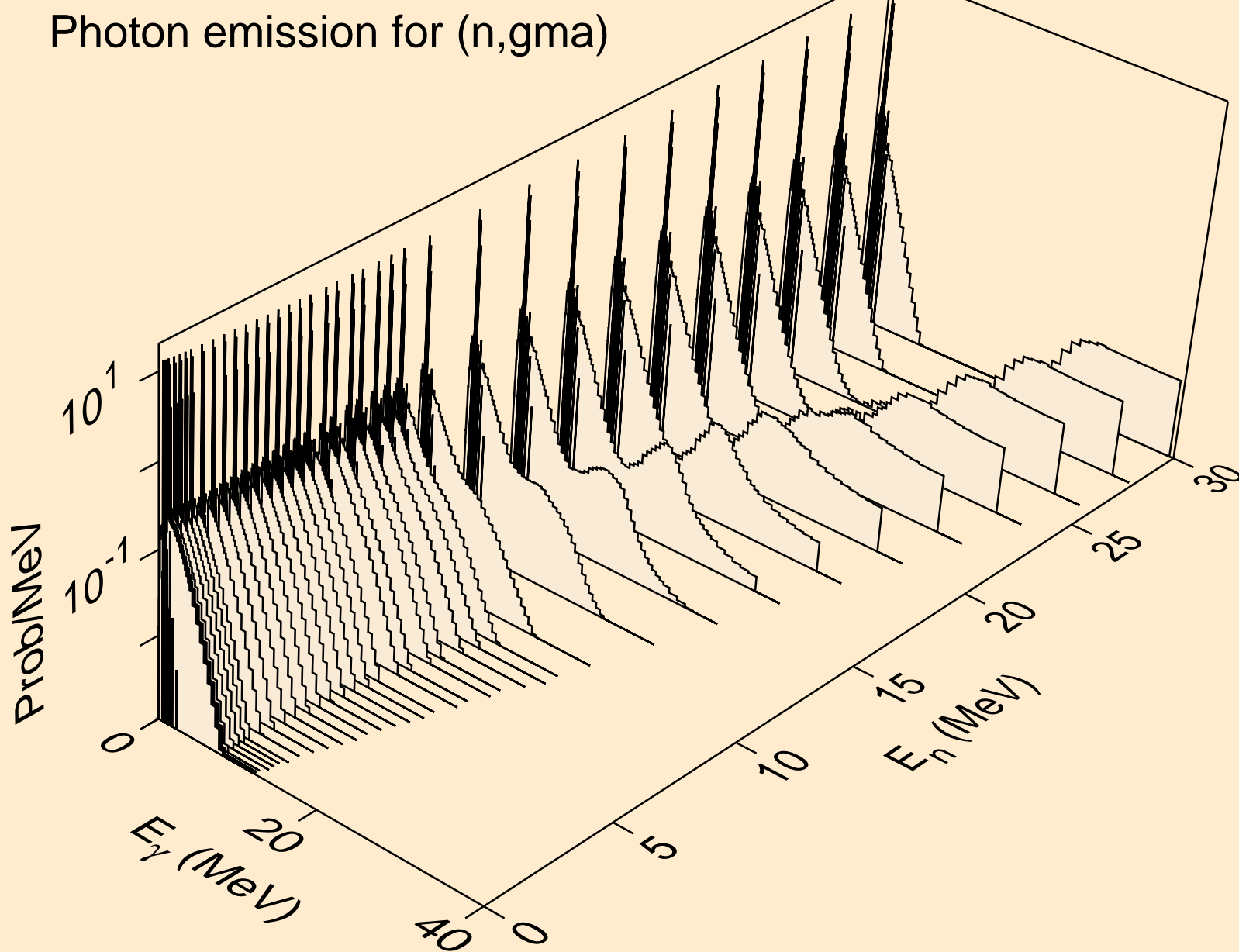
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Photon emission for (n,n*22)



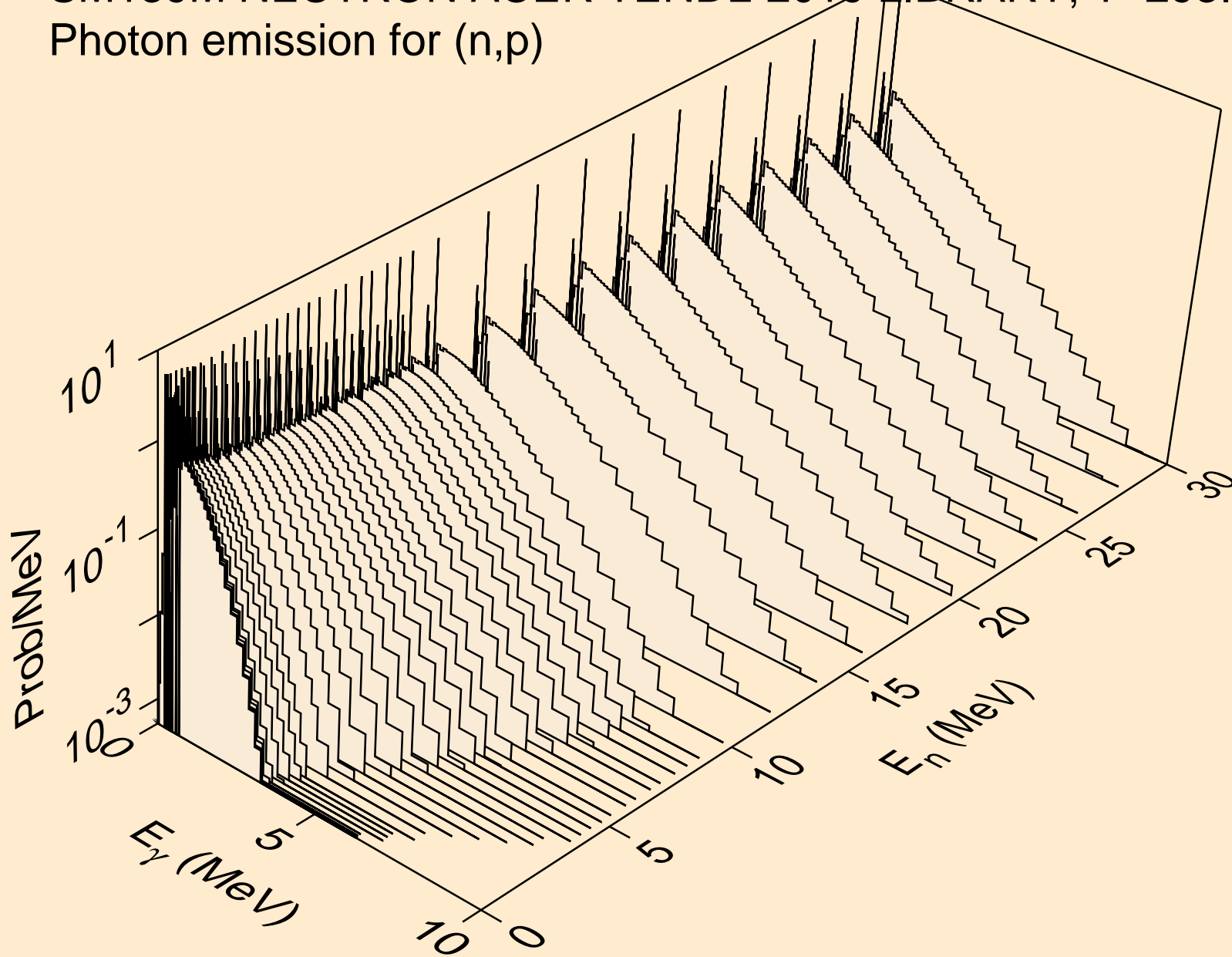
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Photon emission for (n,n*c)



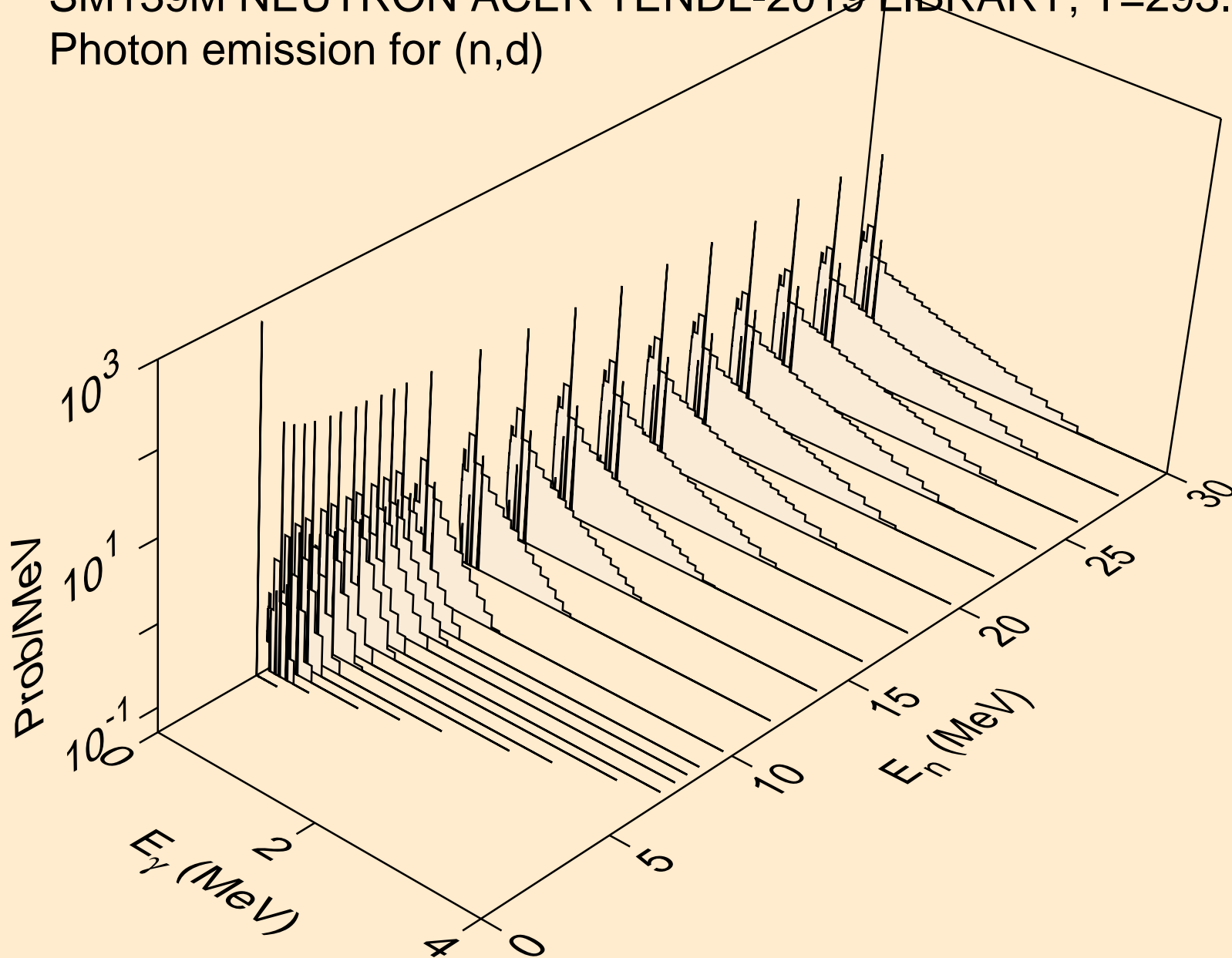
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Photon emission for (n,gma)



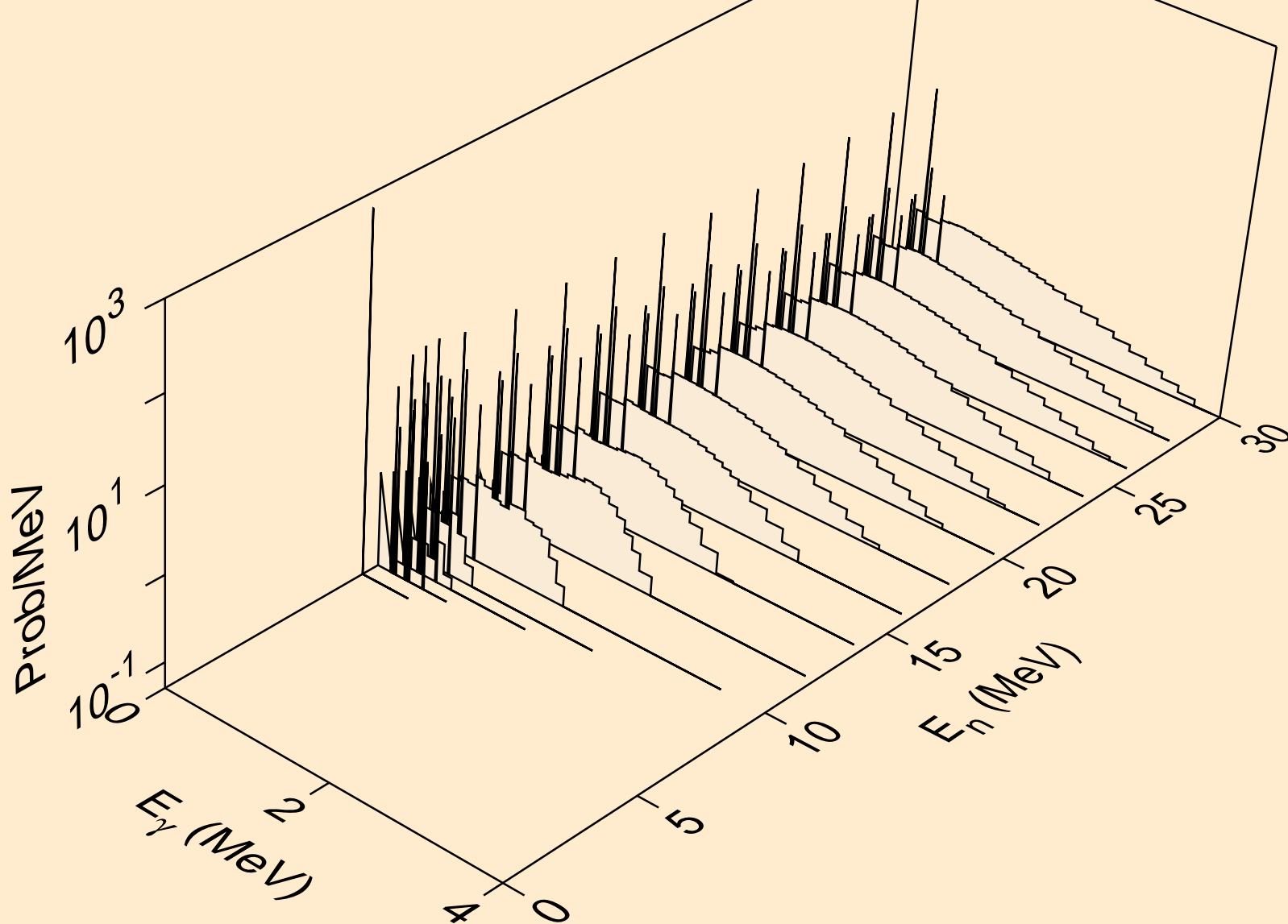
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Photon emission for (n,p)



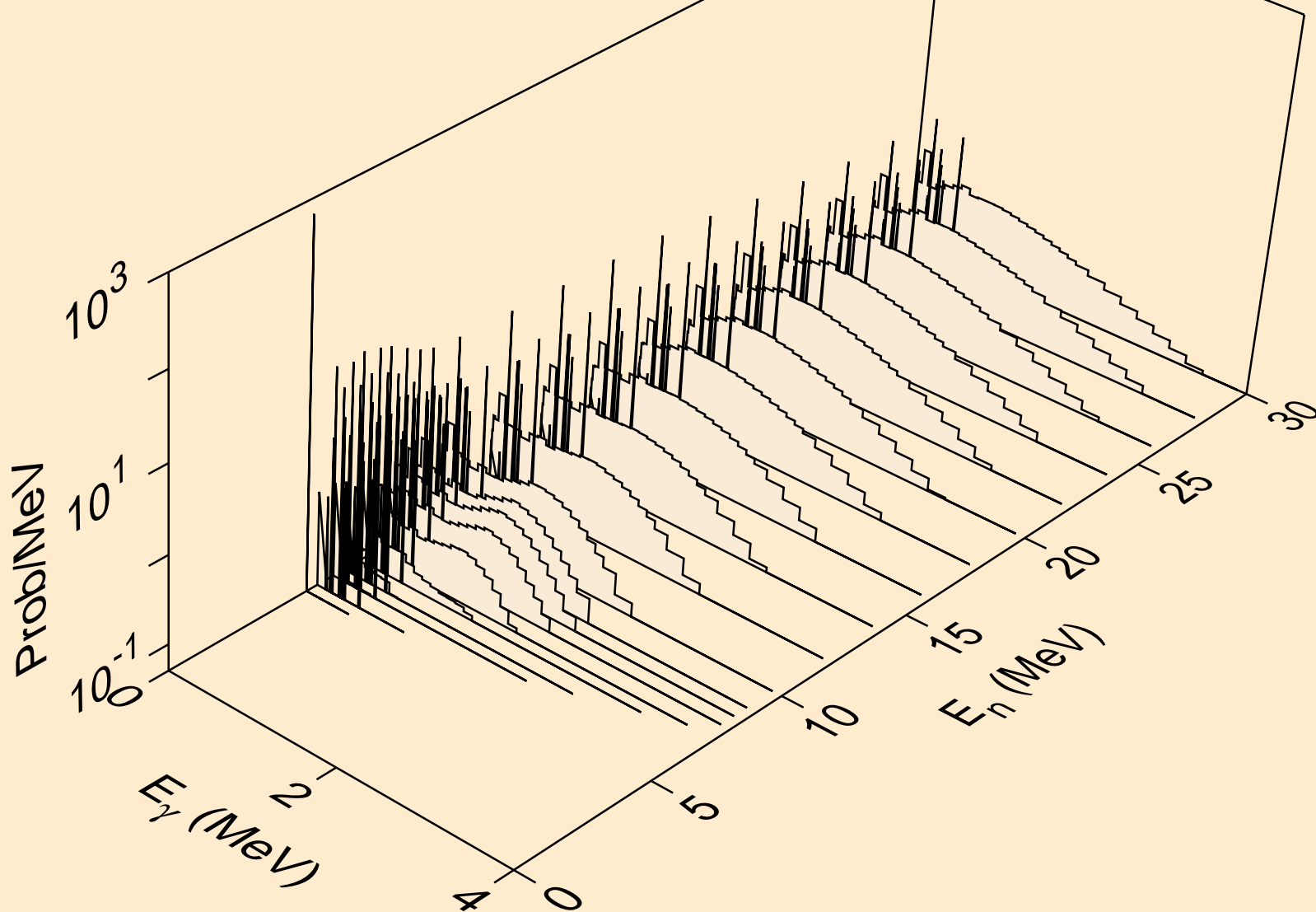
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Photon emission for (n,d)



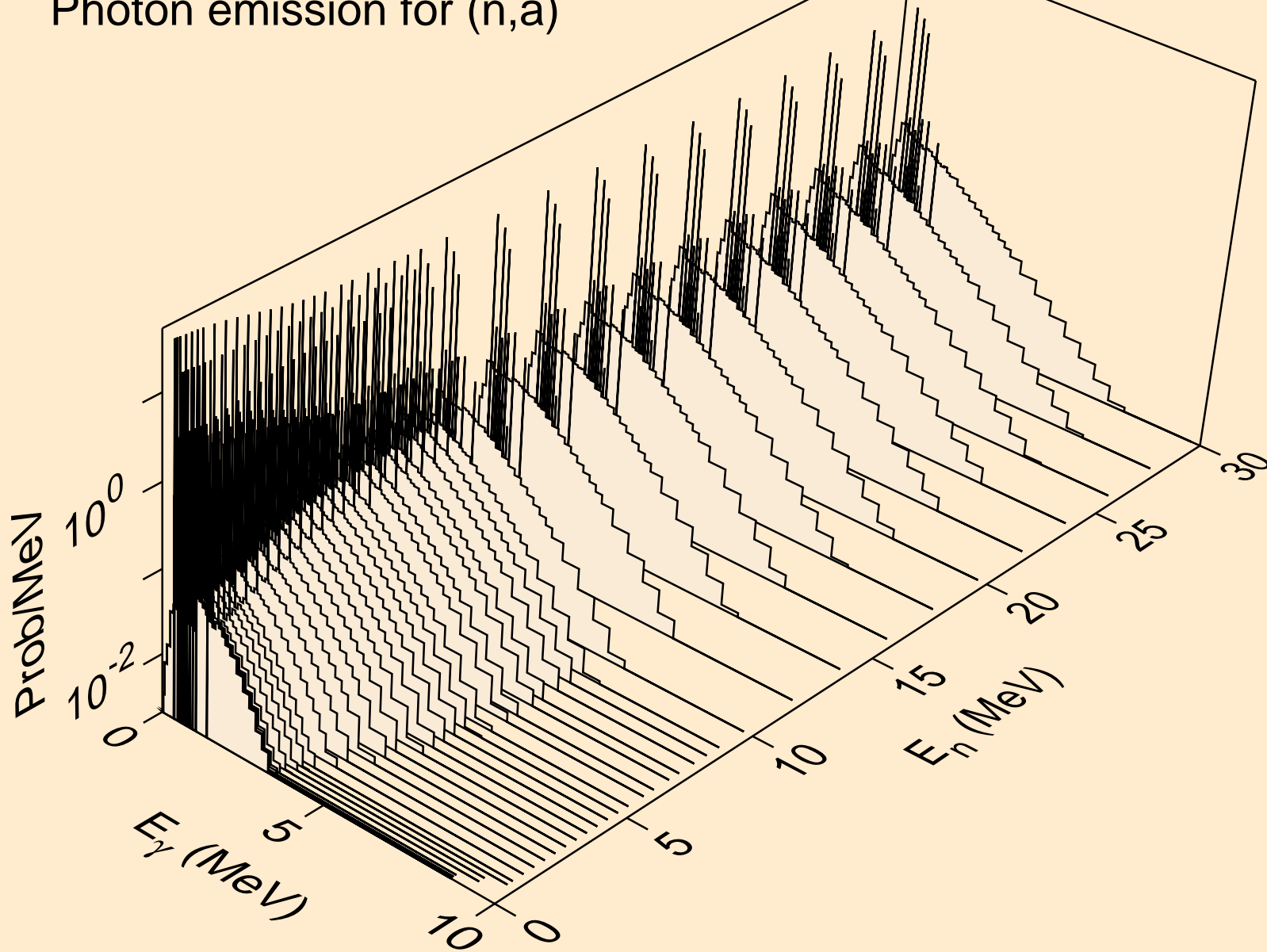
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Photon emission for (n,t)



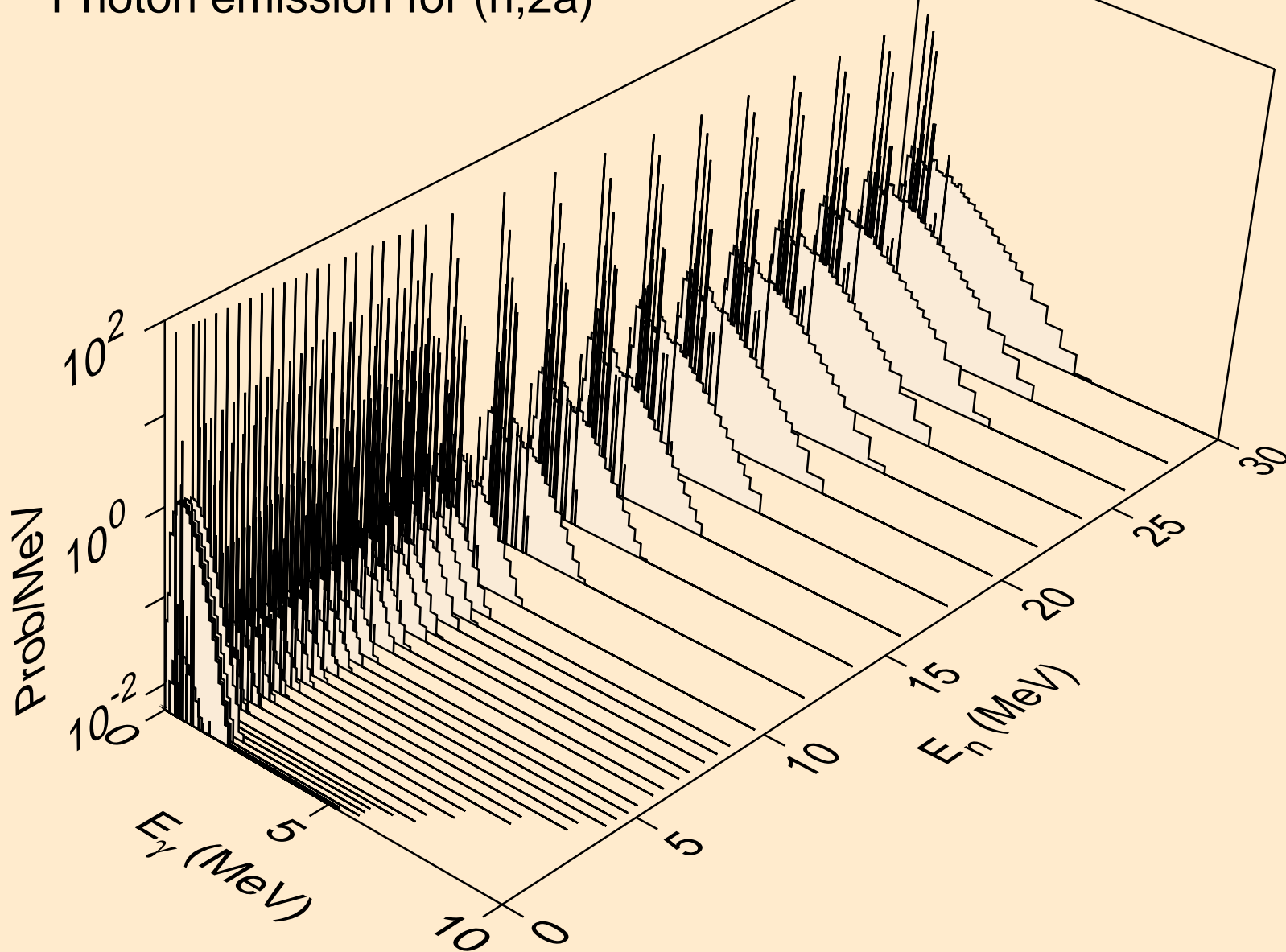
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Photon emission for (n,he3)



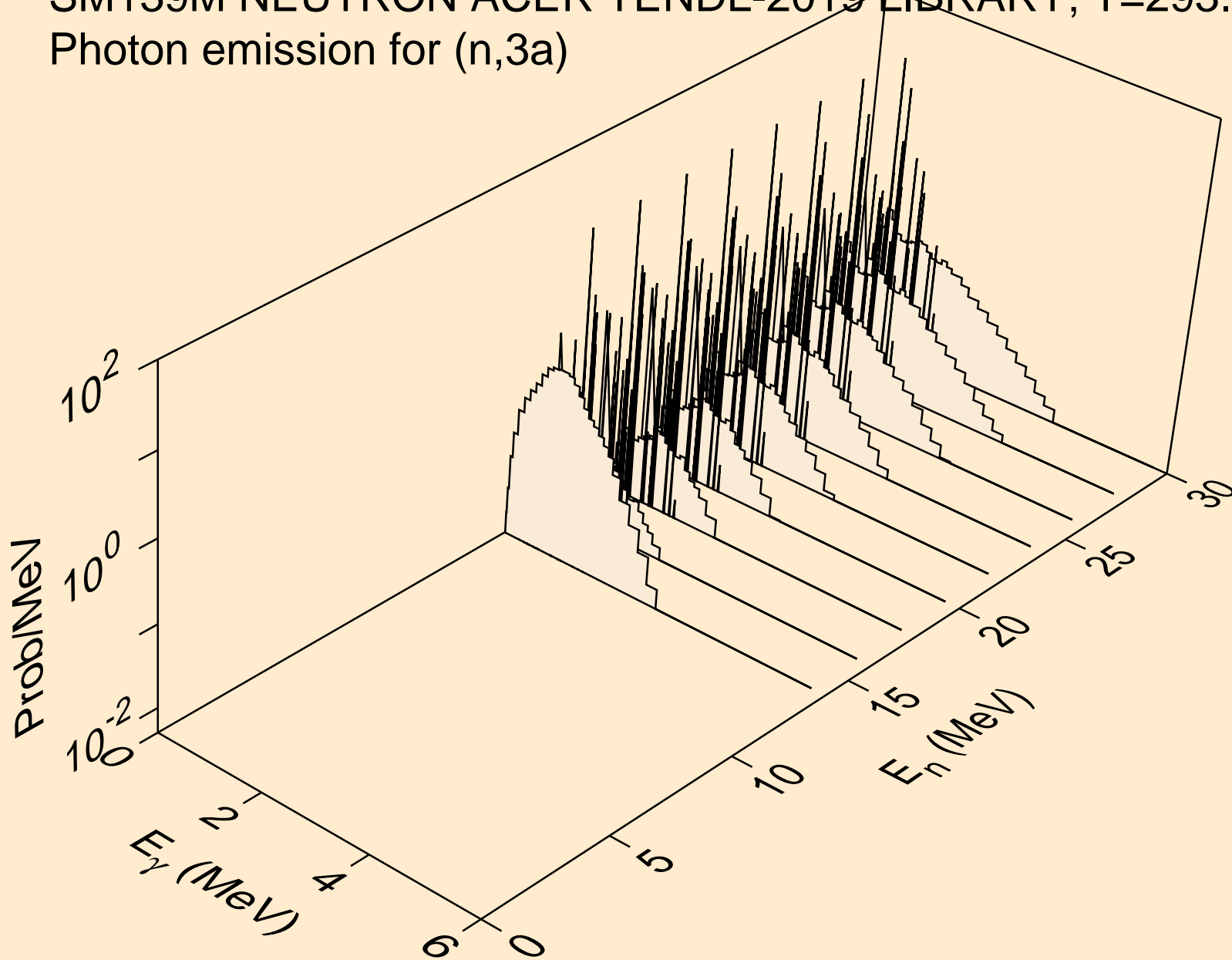
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Photon emission for (n,a)



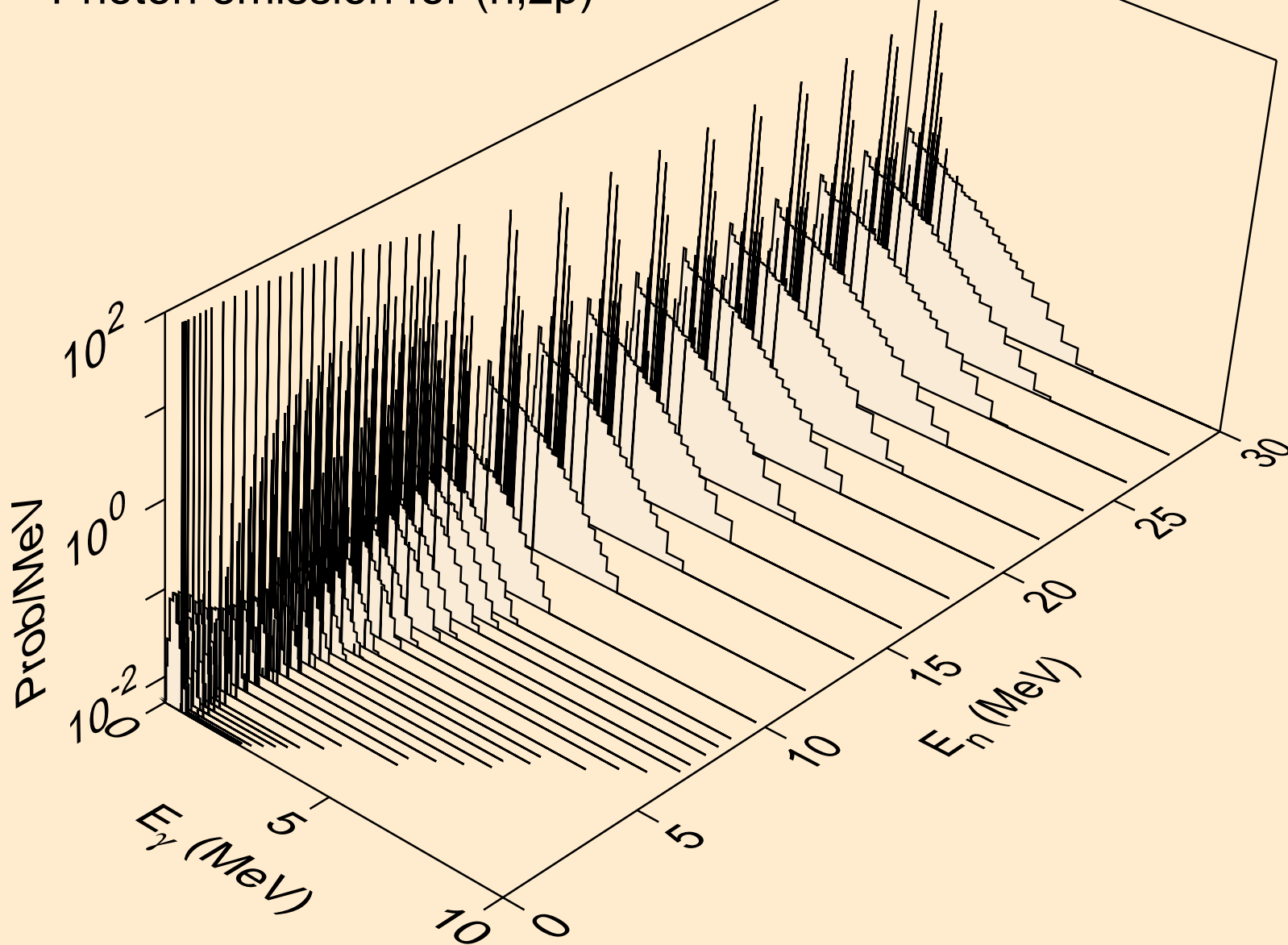
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Photon emission for (n,2a)



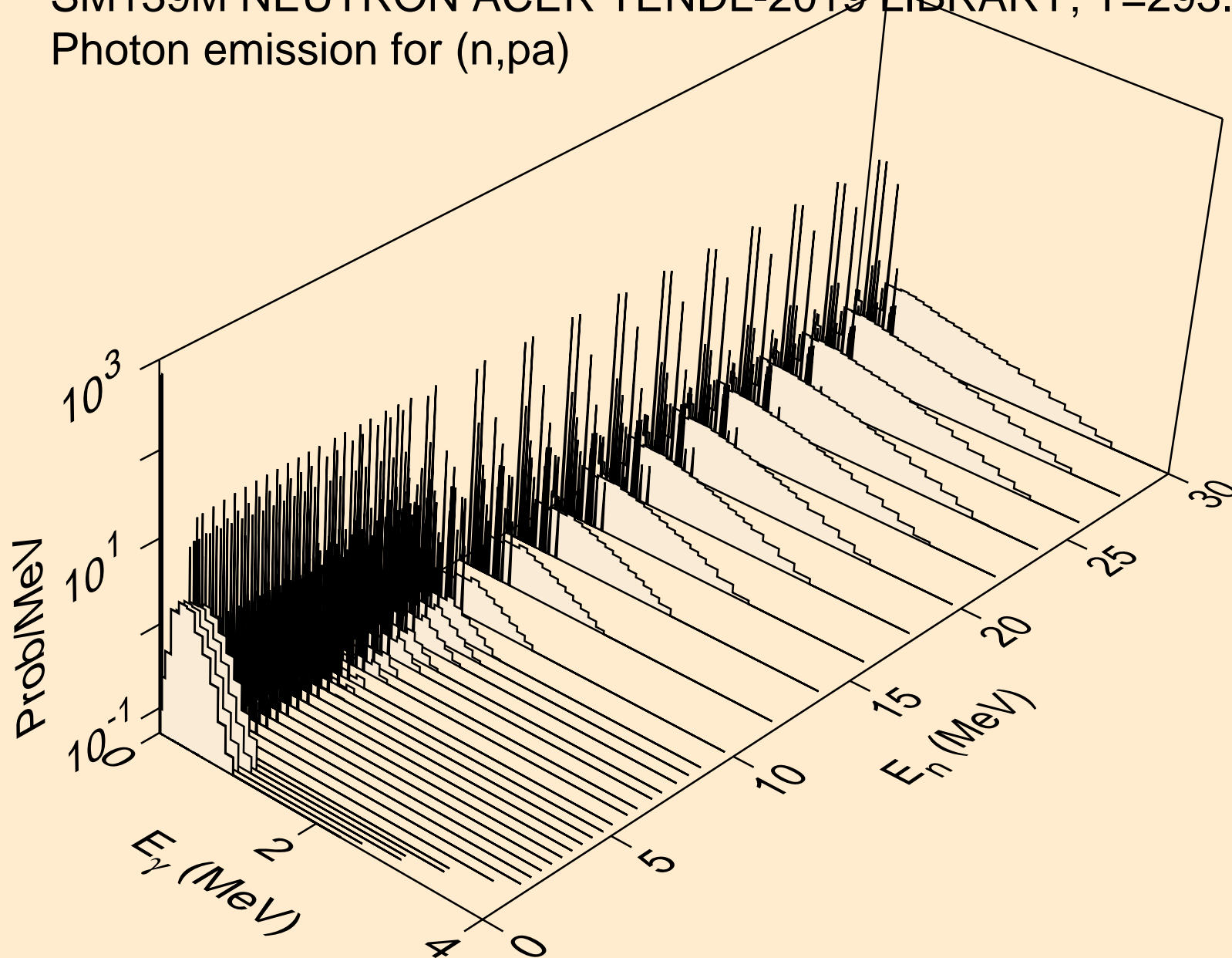
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Photon emission for (n,3a)



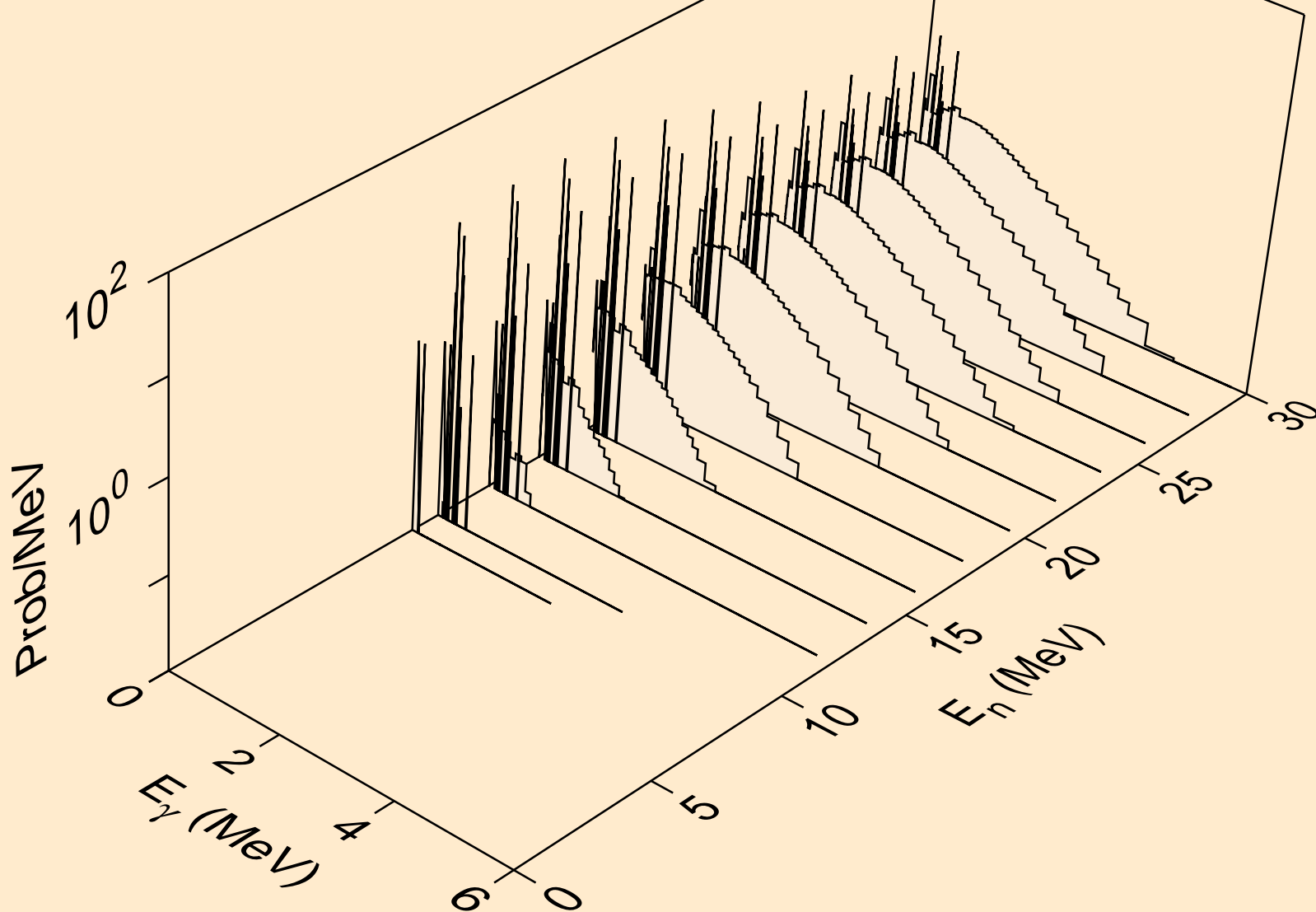
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Photon emission for (n,2p)



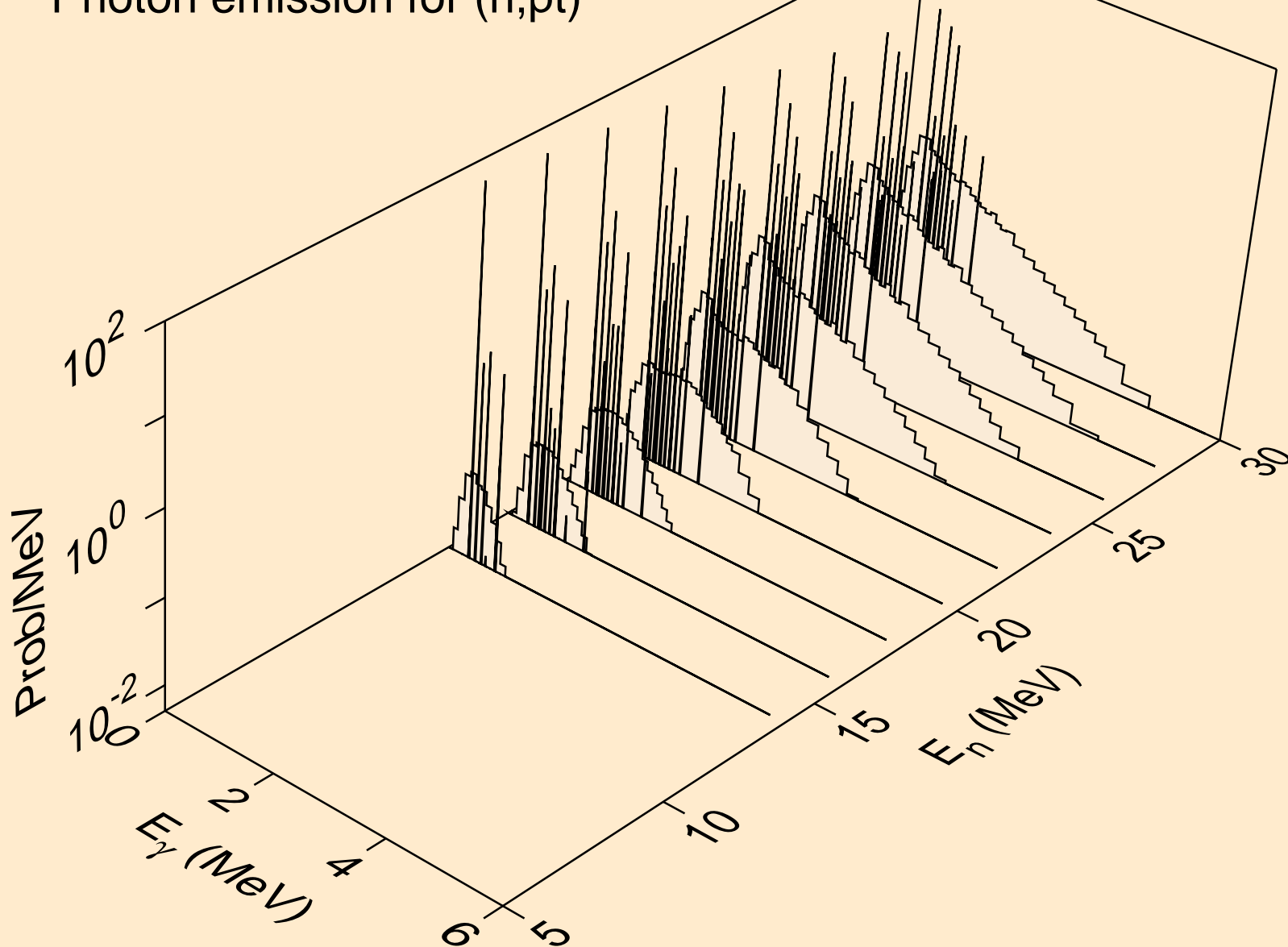
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Photon emission for (n,p α)



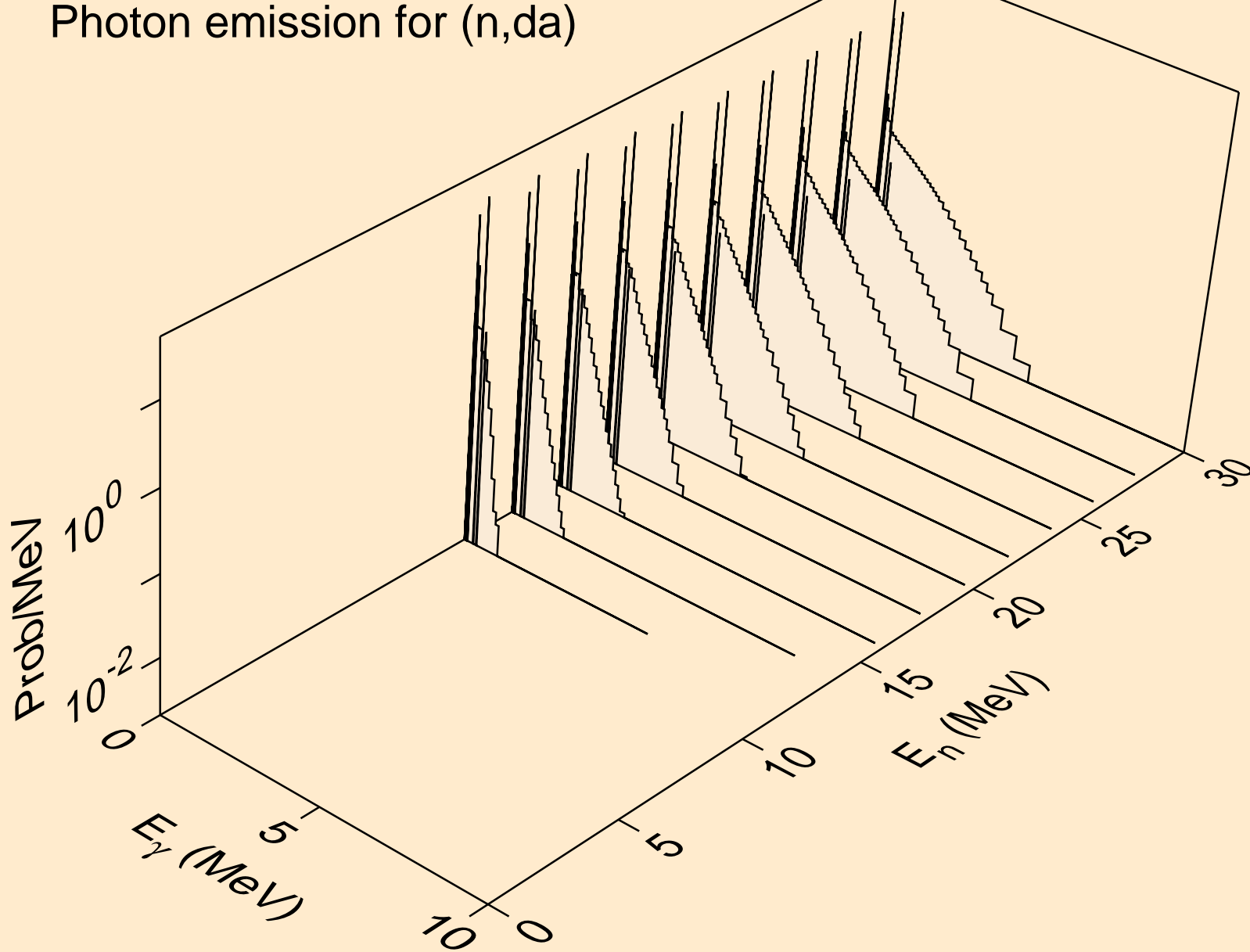
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Photon emission for (n,pd)



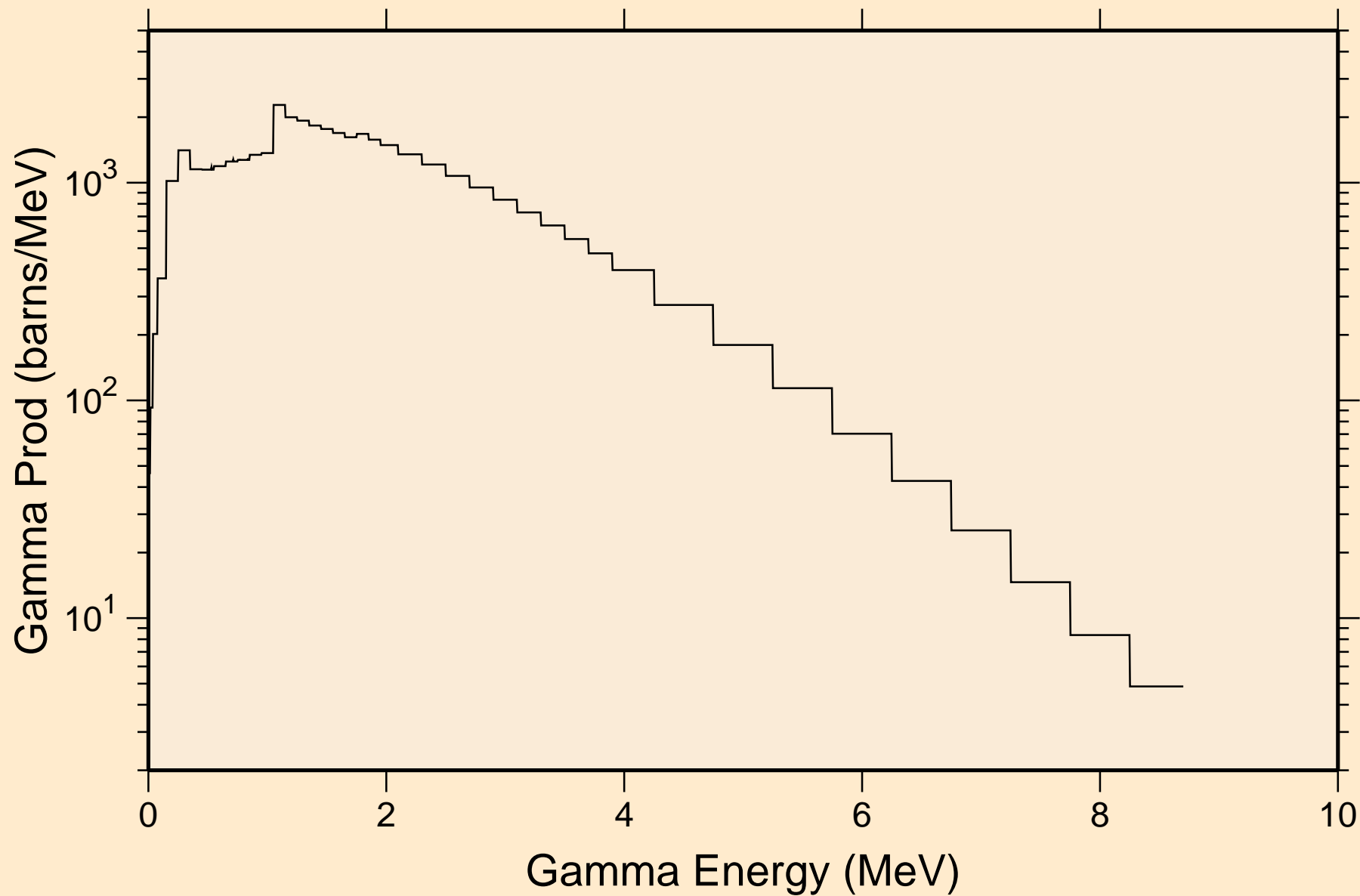
SM139M NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Photon emission for (n,pt)



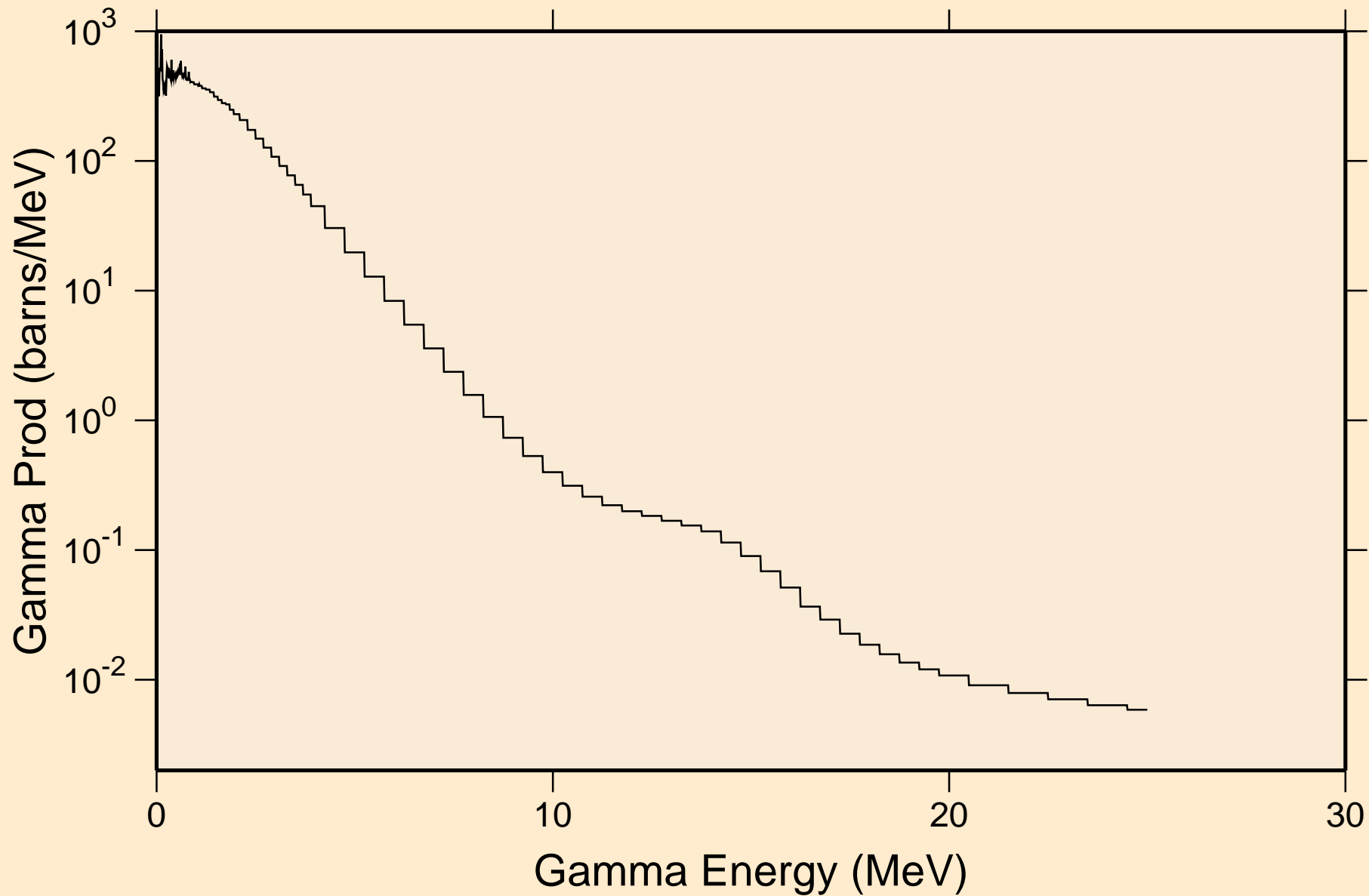
SM139M NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Photon emission for (n,da)



SM139M NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
thermal capture photon spectrum

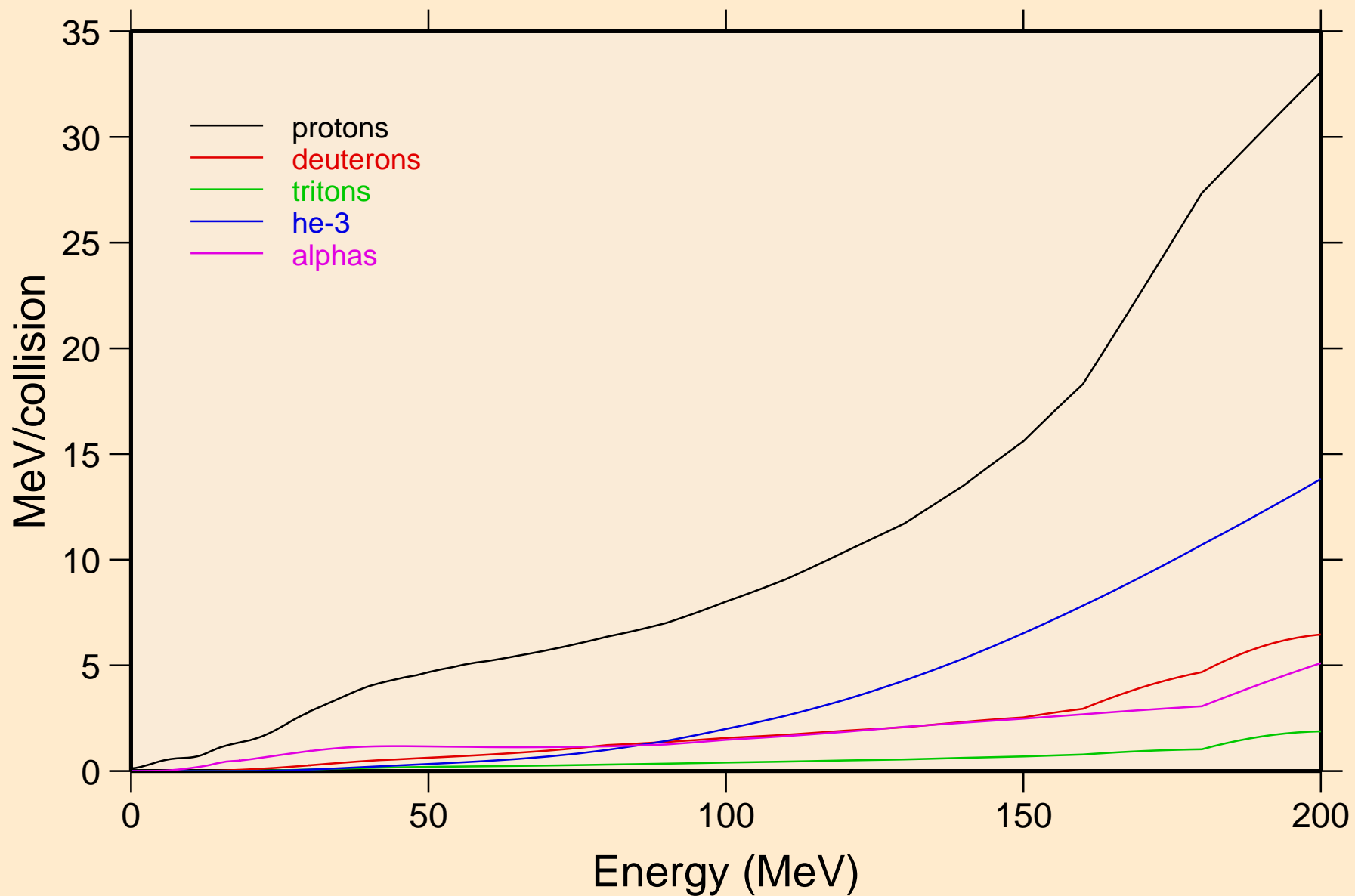


SM139M NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
14 MeV photon spectrum

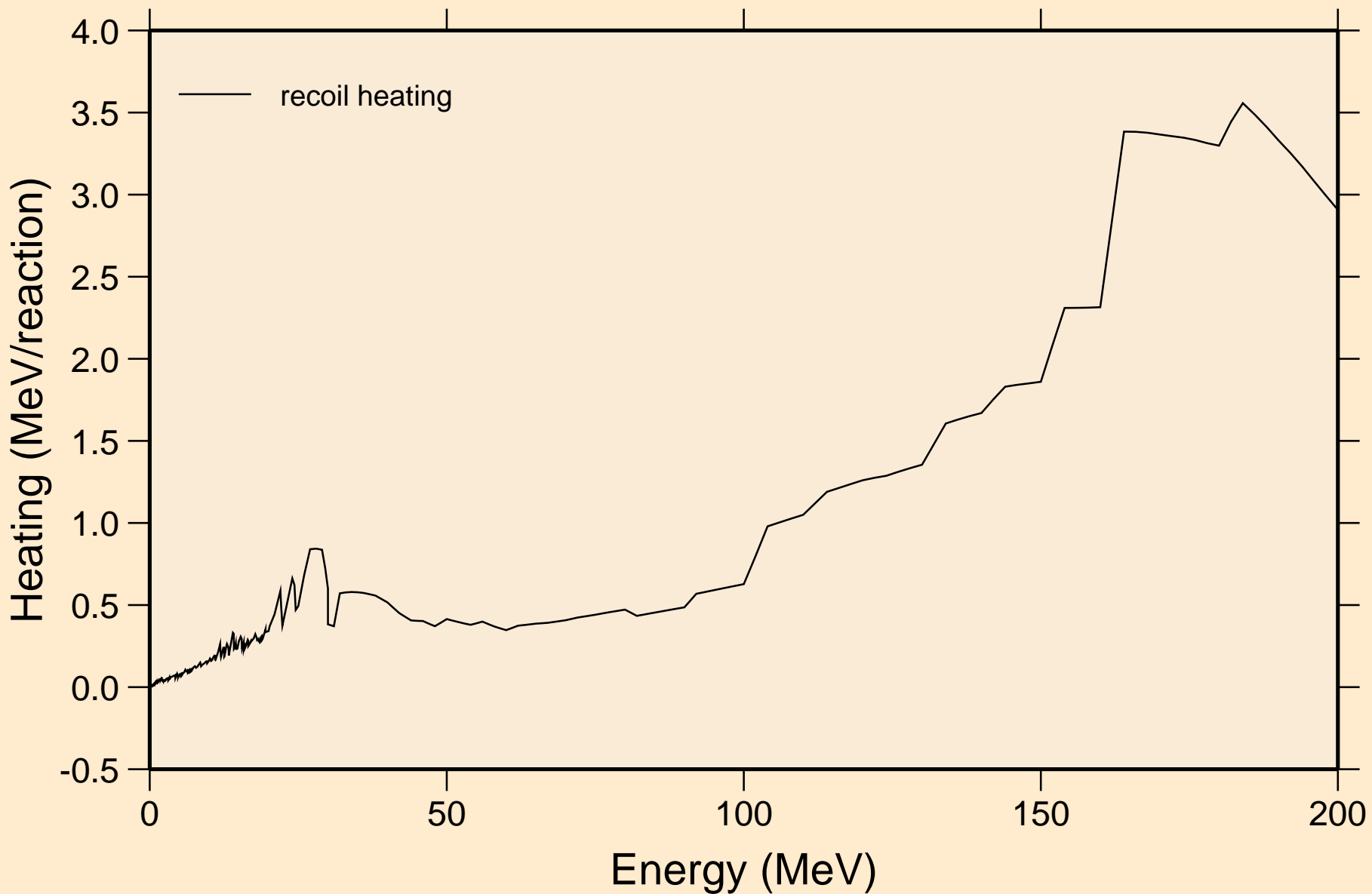


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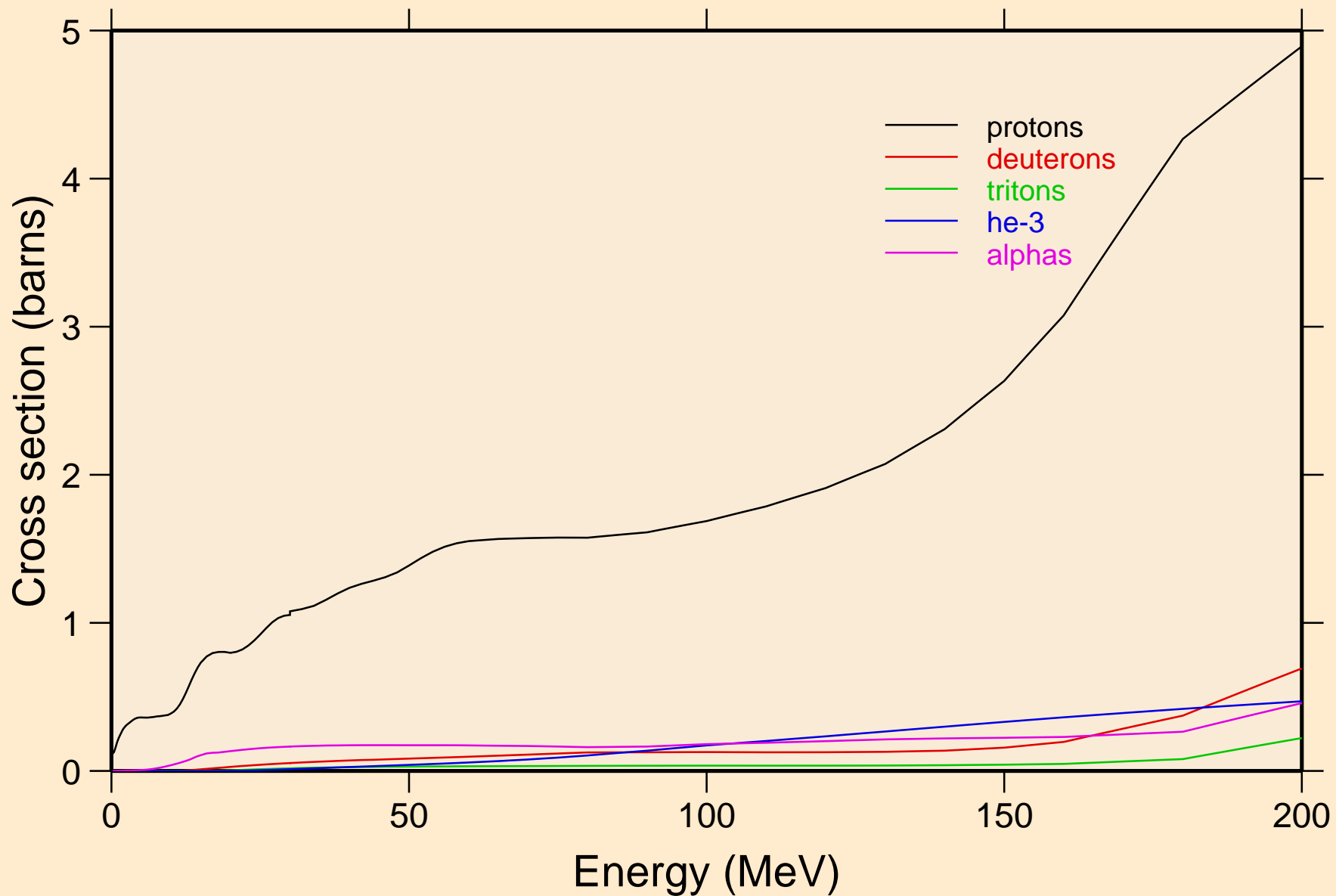
Particle heating contributions



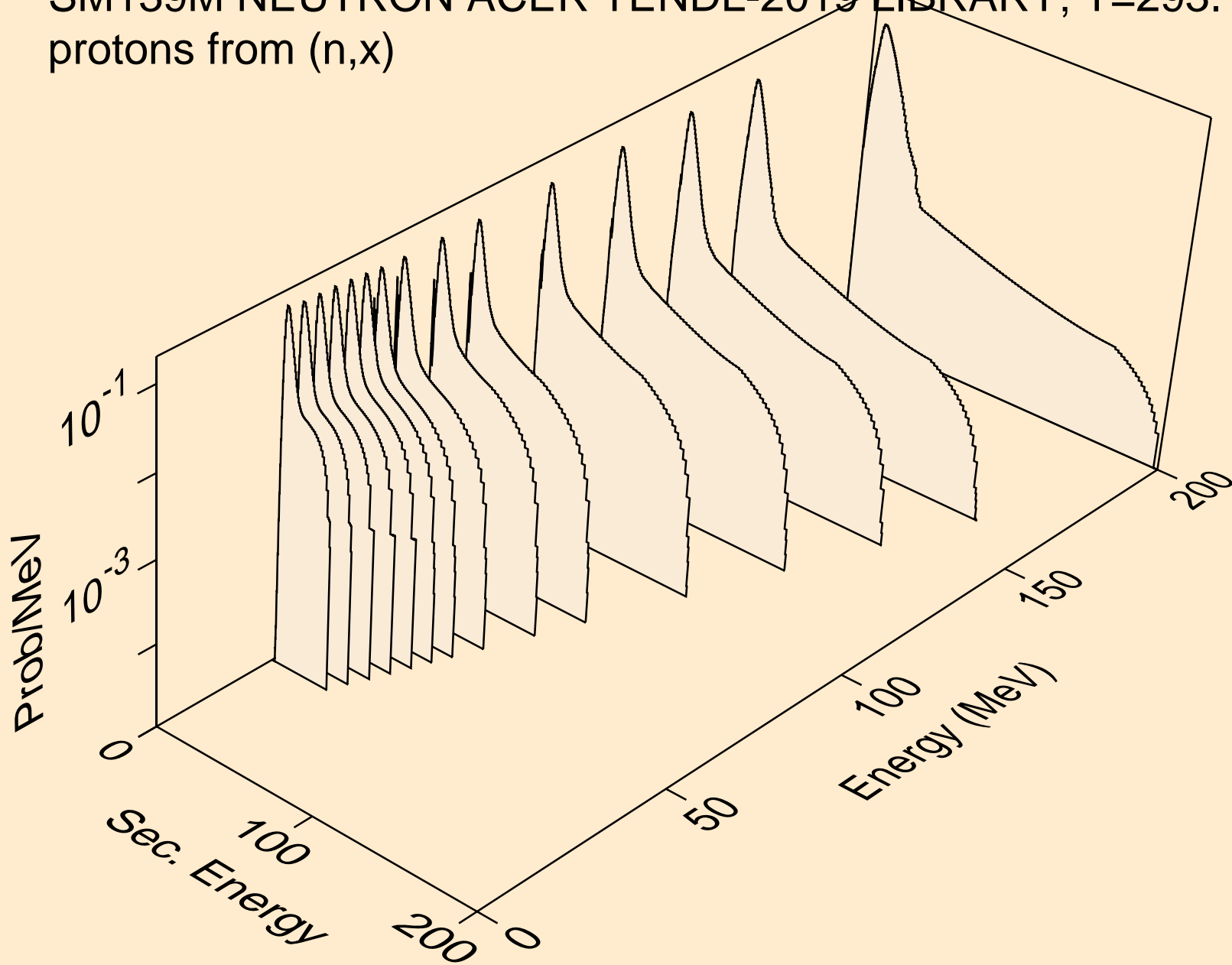
SM139M NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Recoil Heating



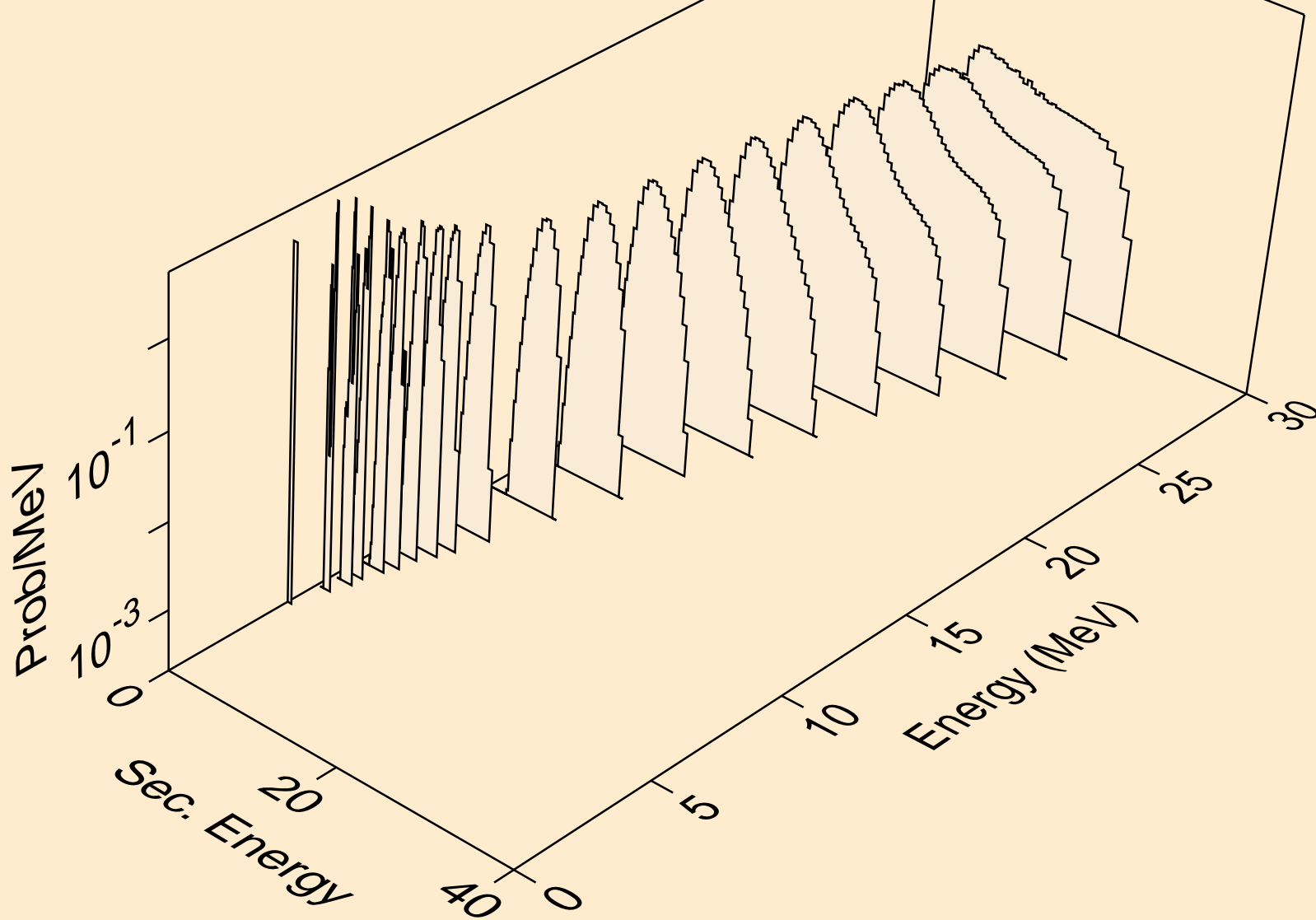
SM139M NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
Particle production cross sections



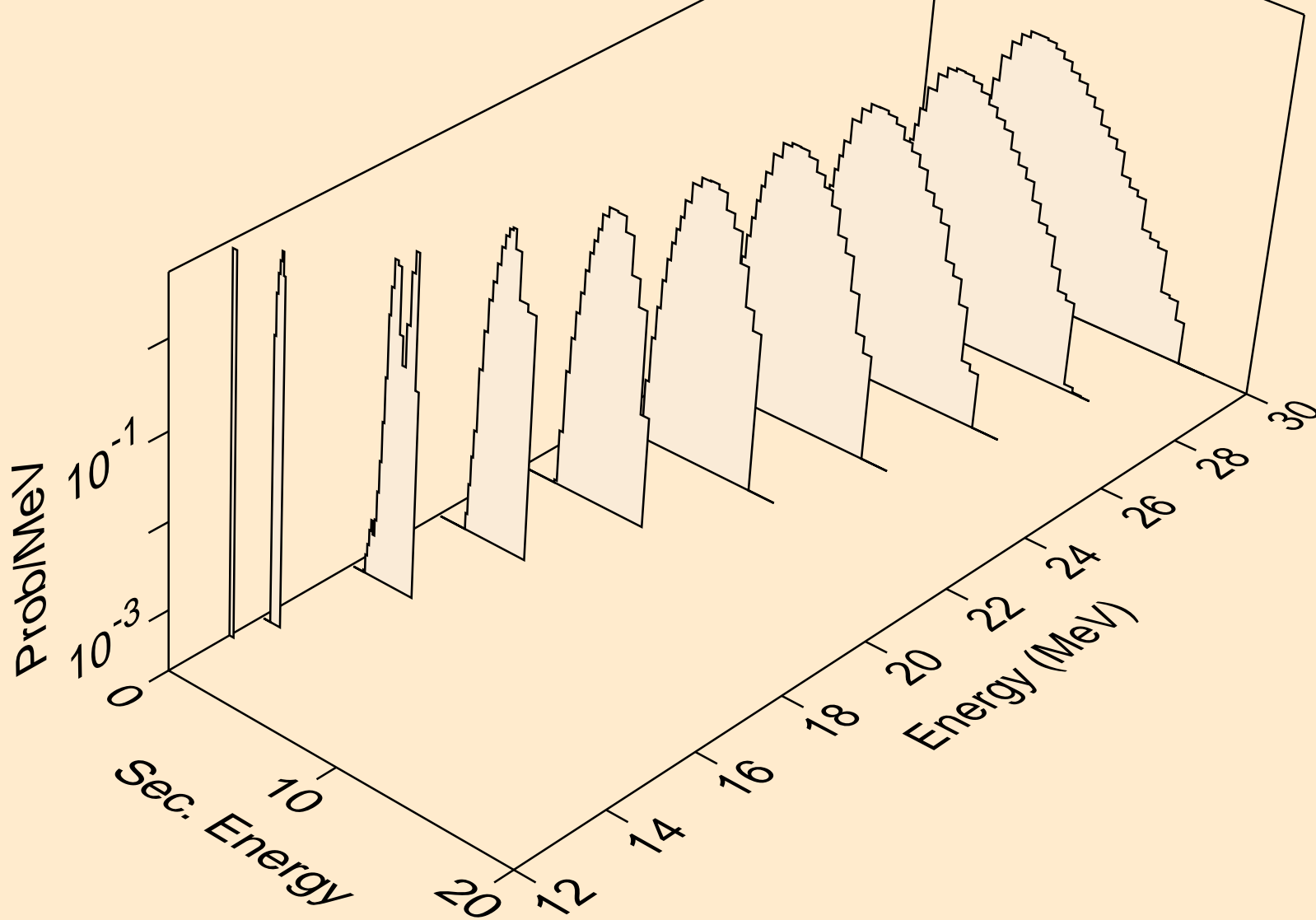
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protons from (n,x)



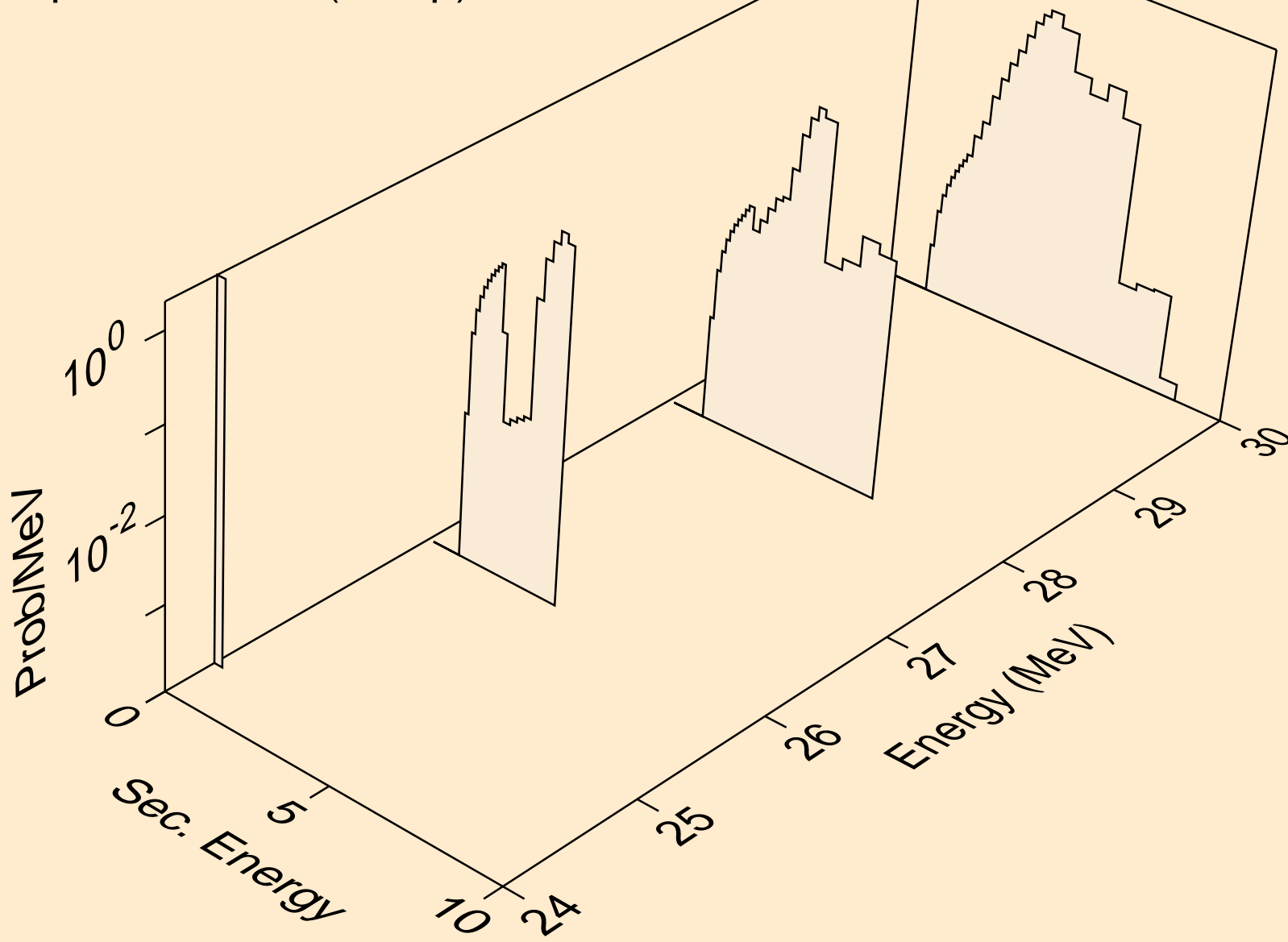
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protons from (n,n*)p



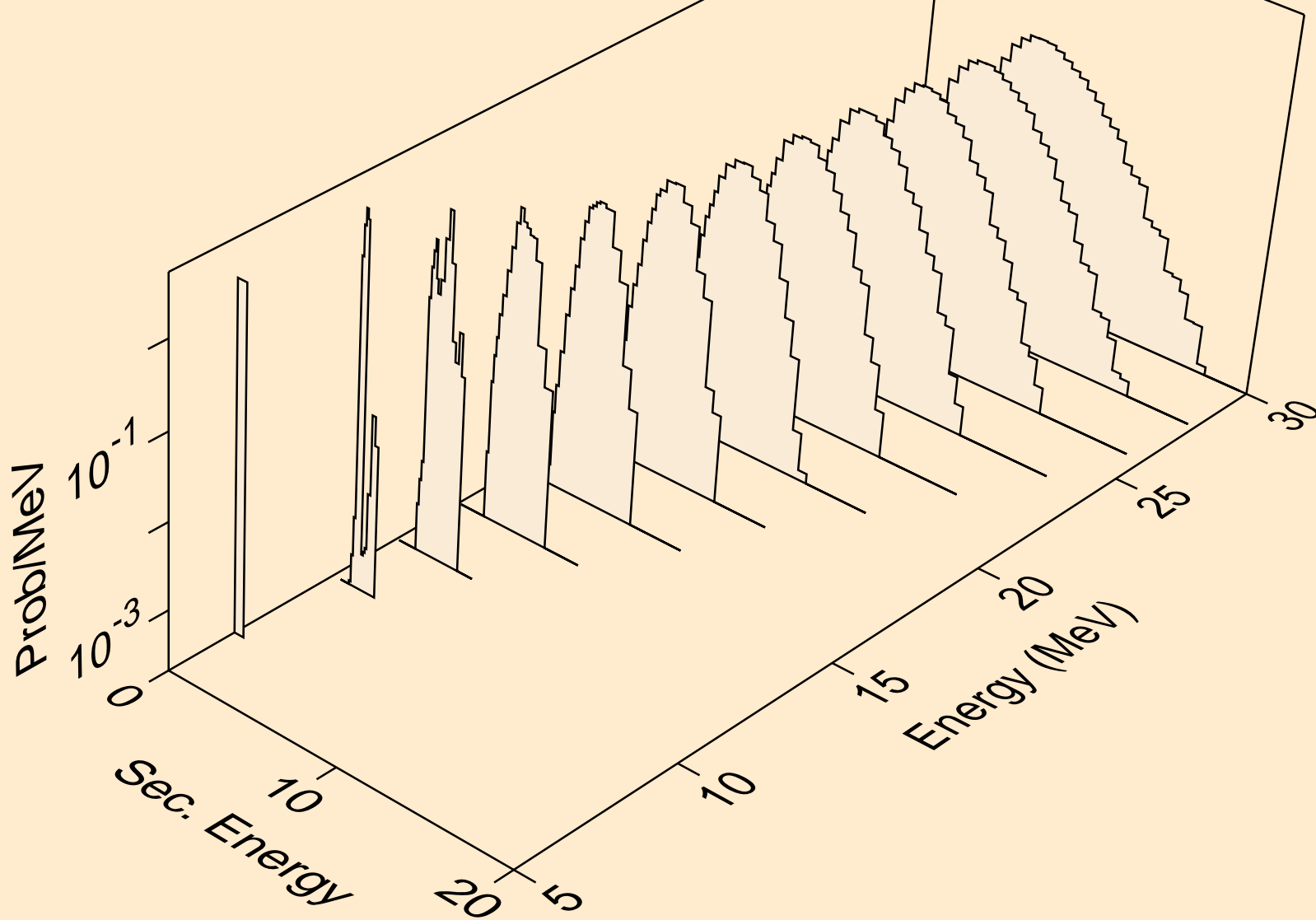
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protons from (n,2np)



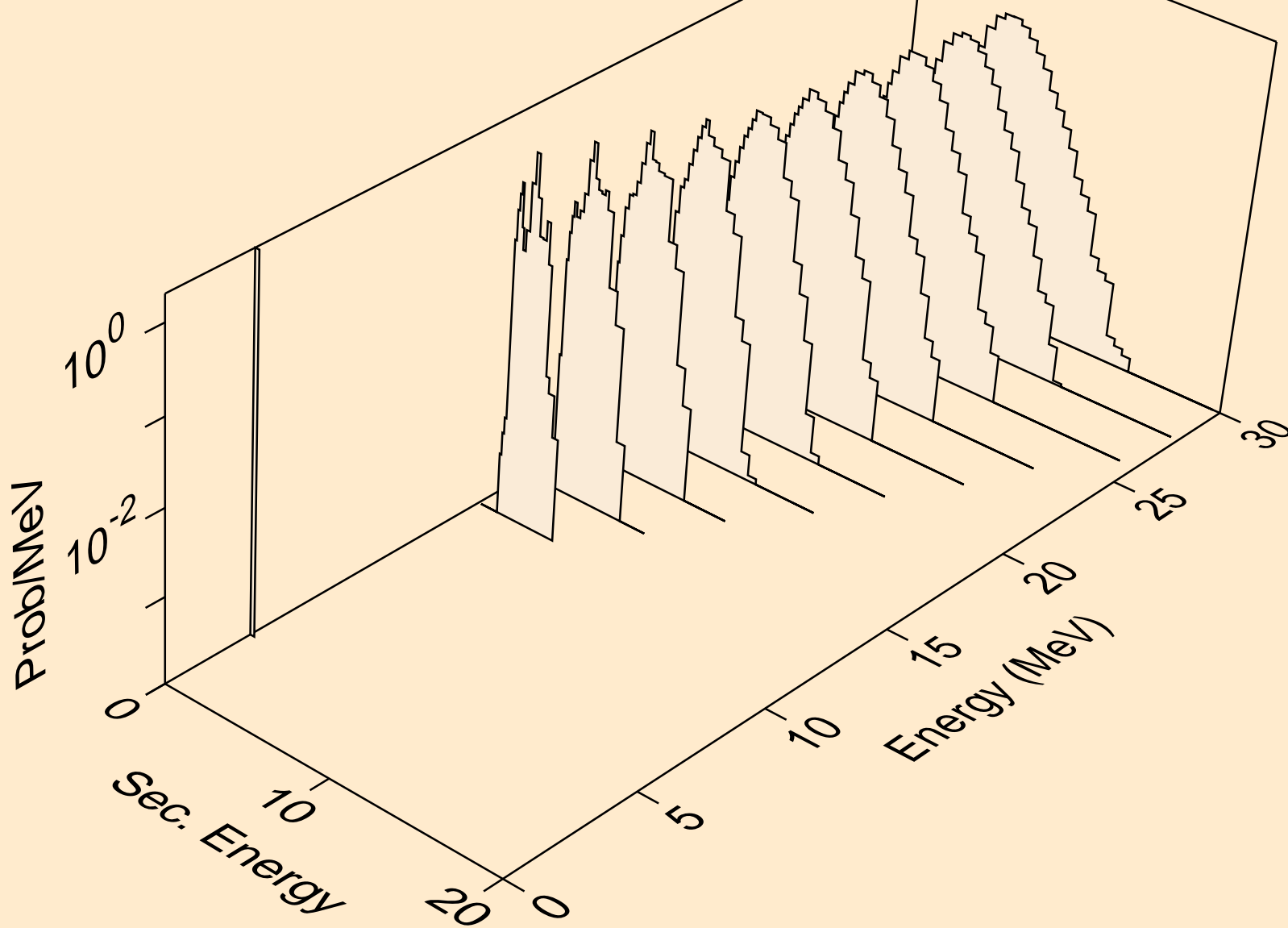
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protons from (n,3np)



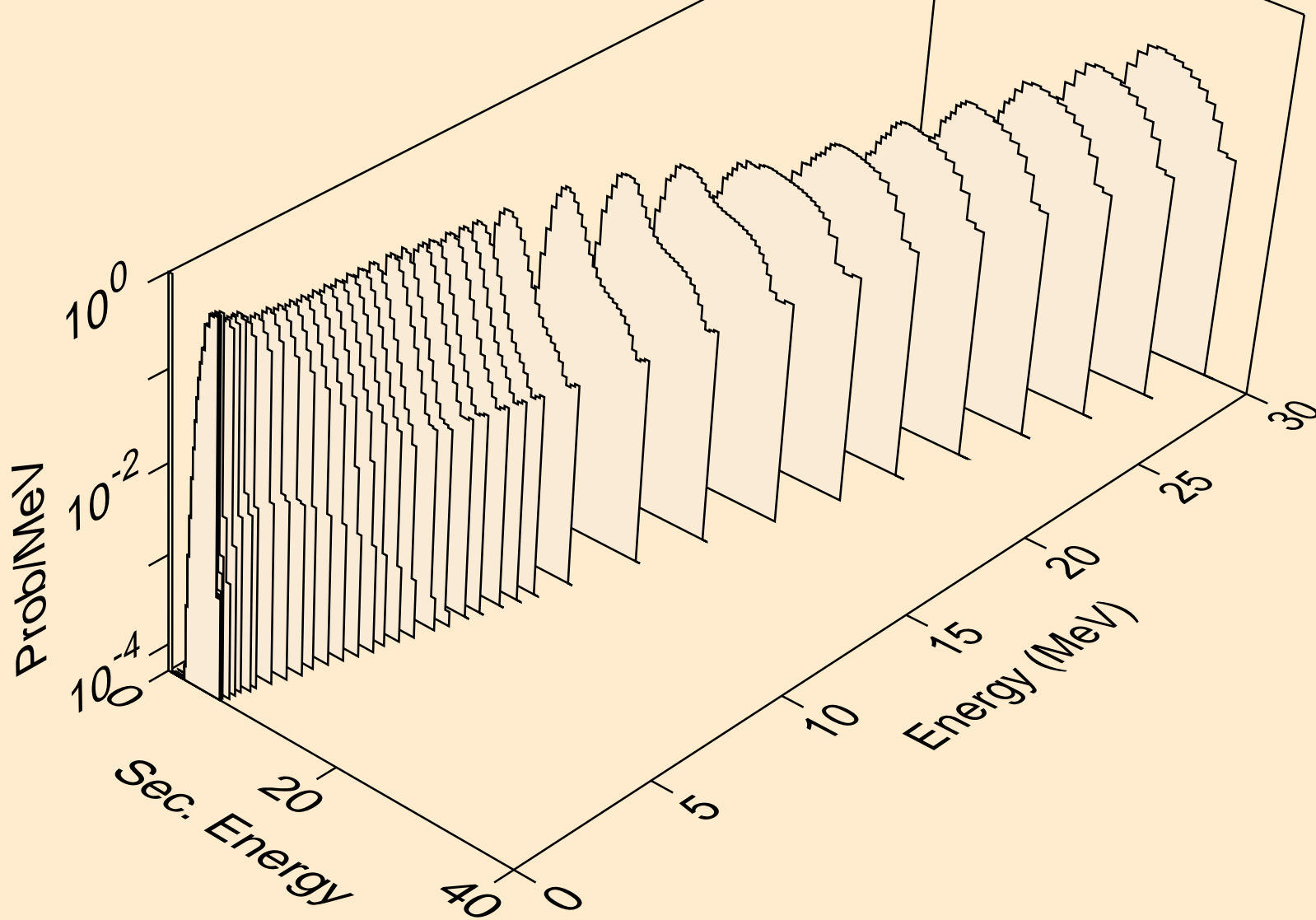
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protons from (n,2np)



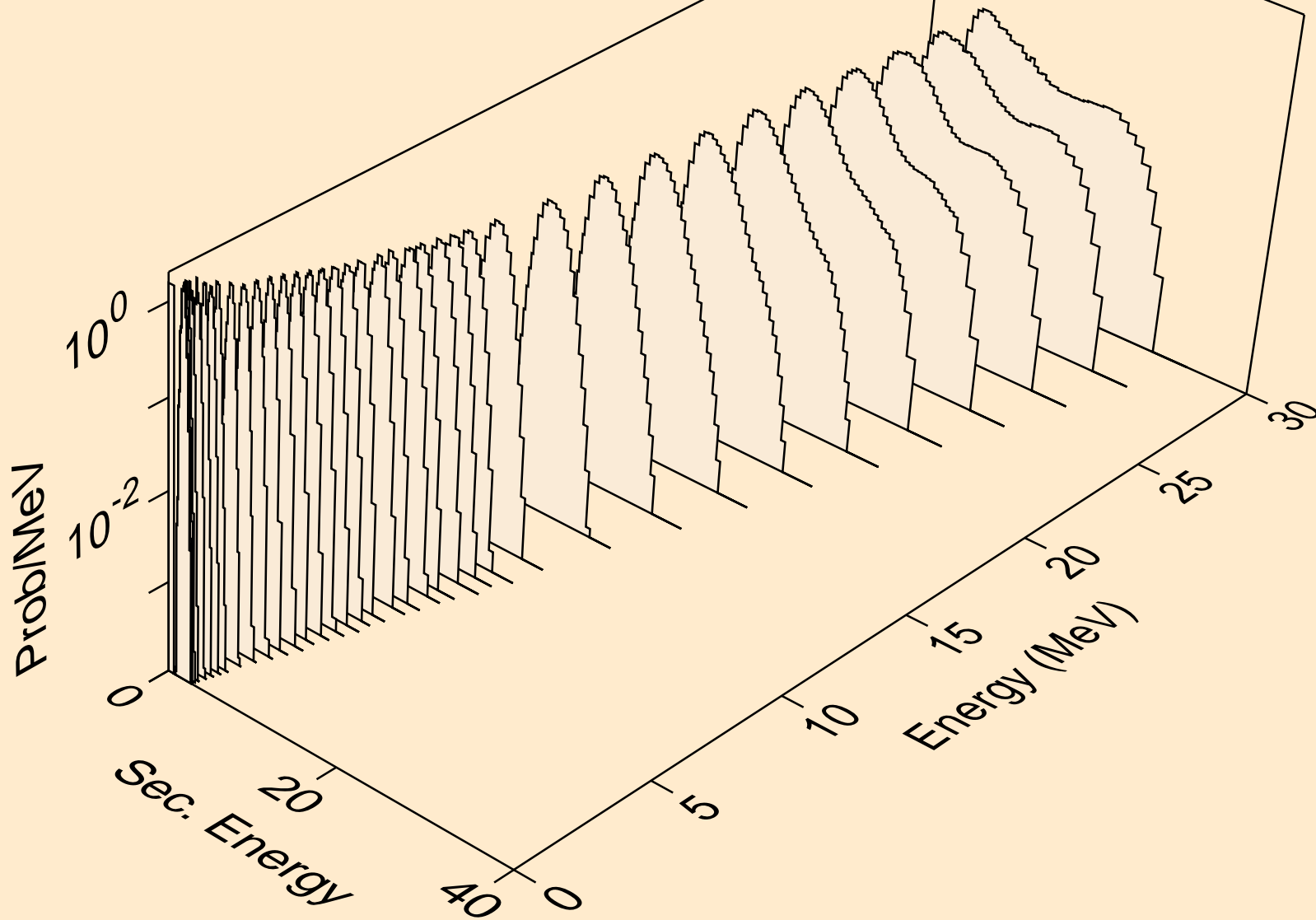
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protons from (n,npa)



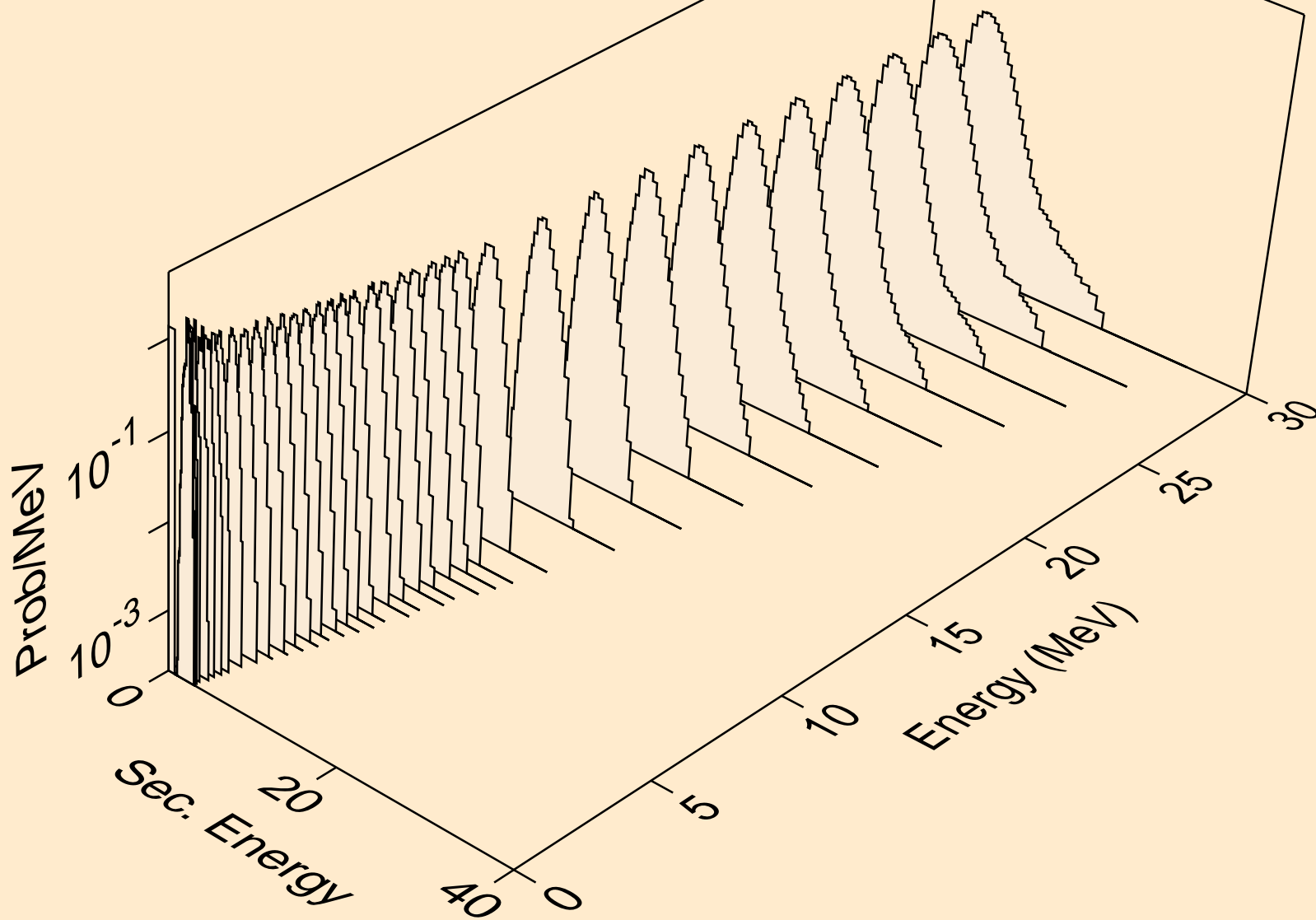
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protons from (n,p)



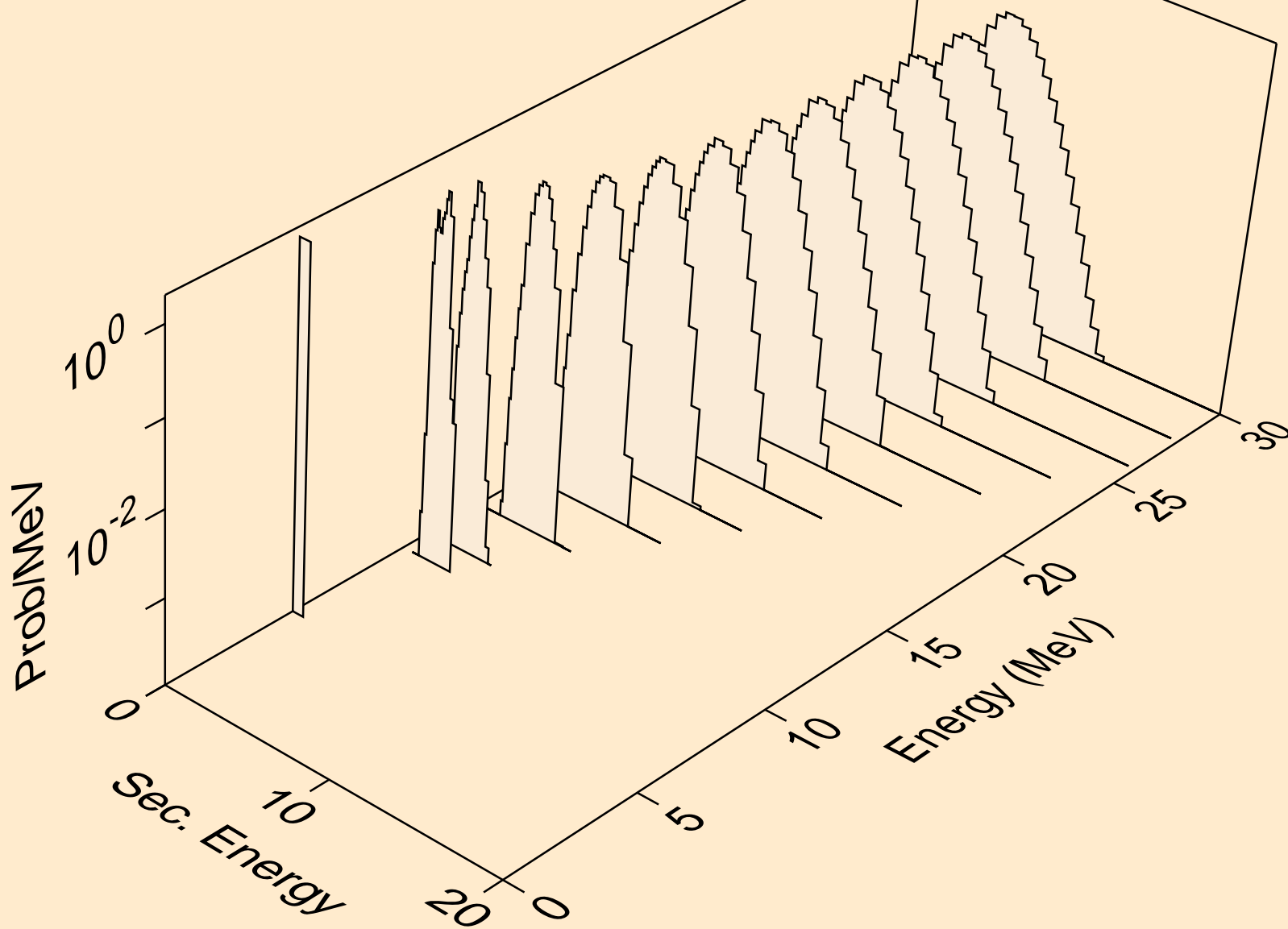
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protons from (n,2p)



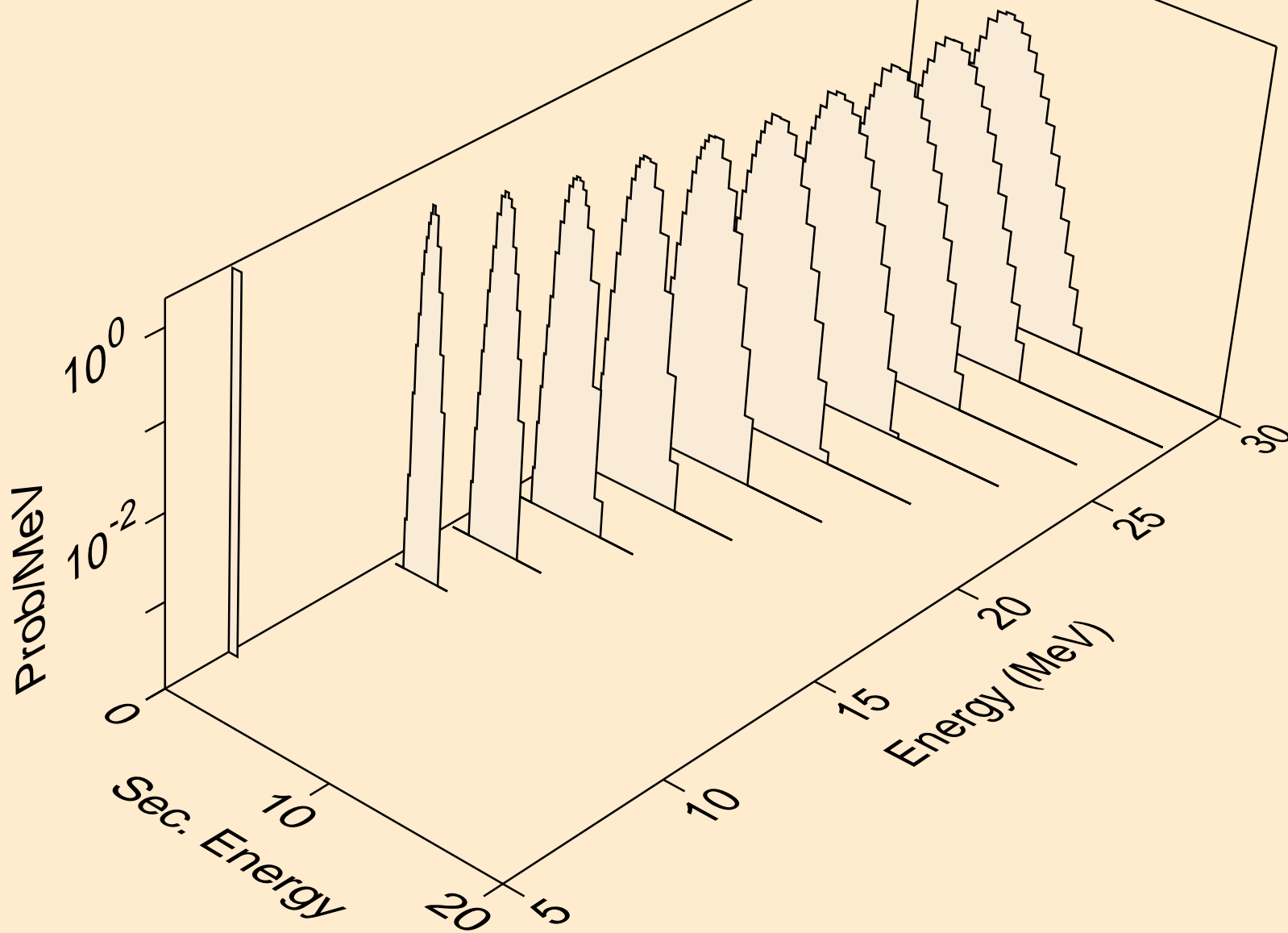
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protons from (n,p)



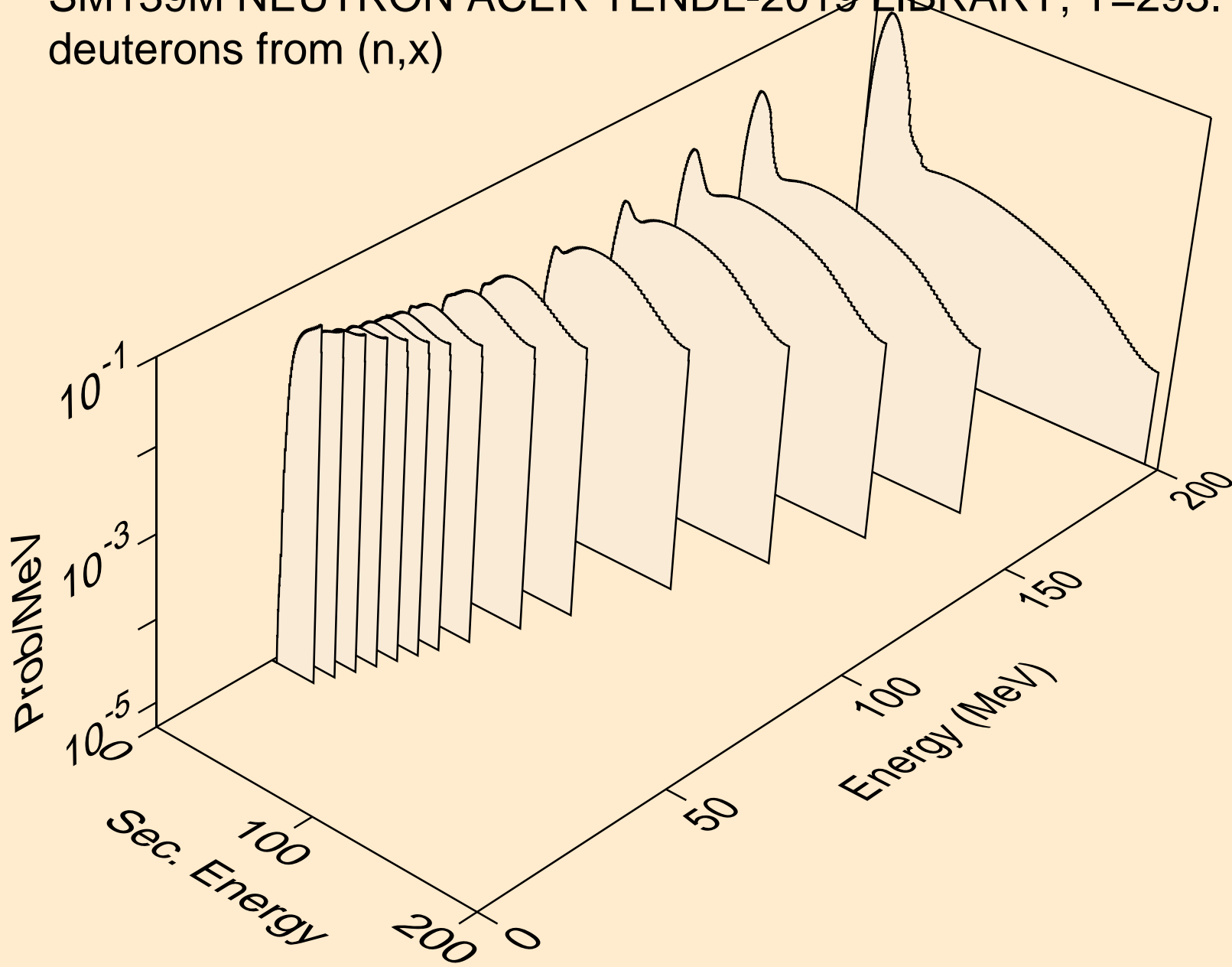
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protons from (n,pd)



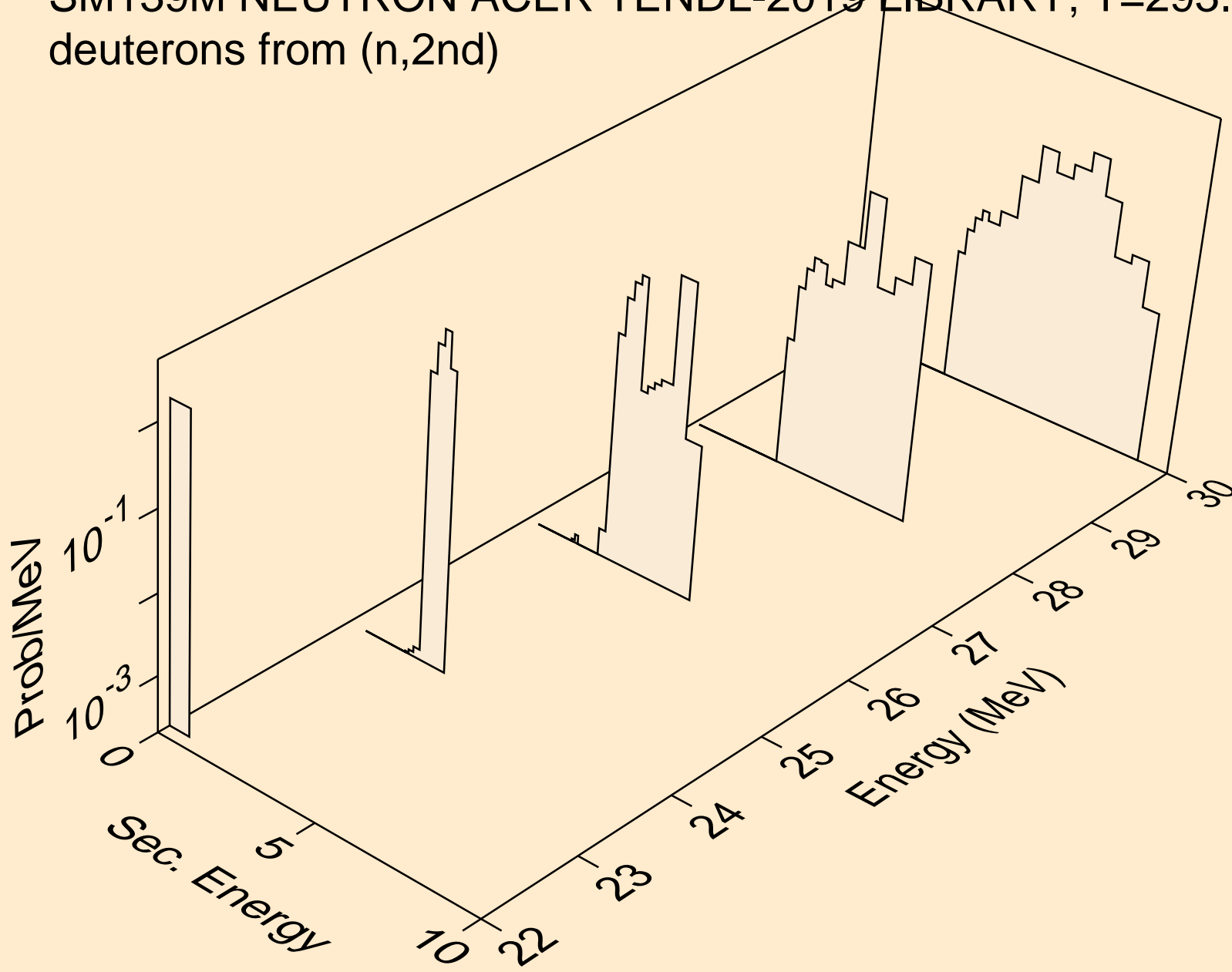
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protons from (n,pt)



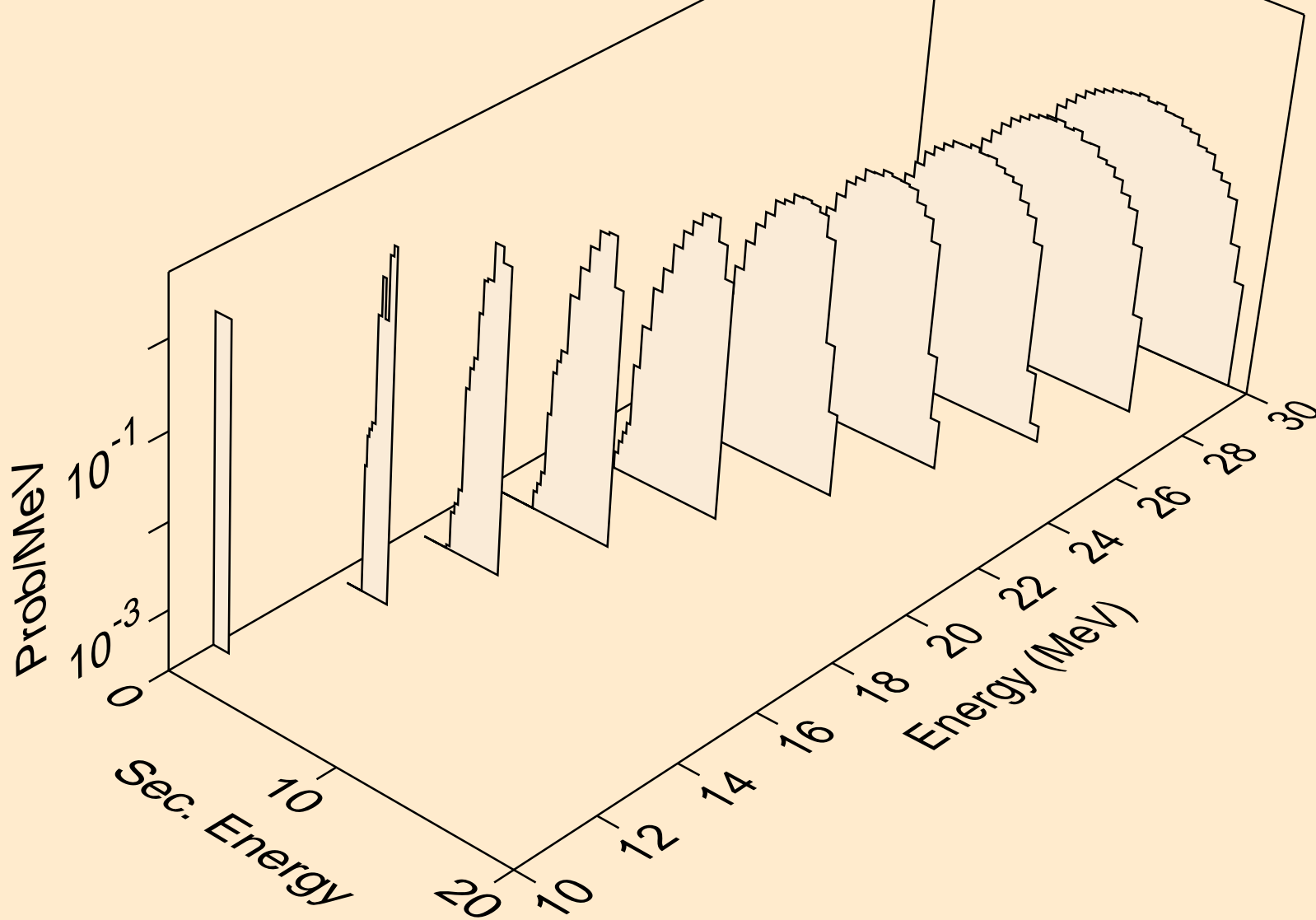
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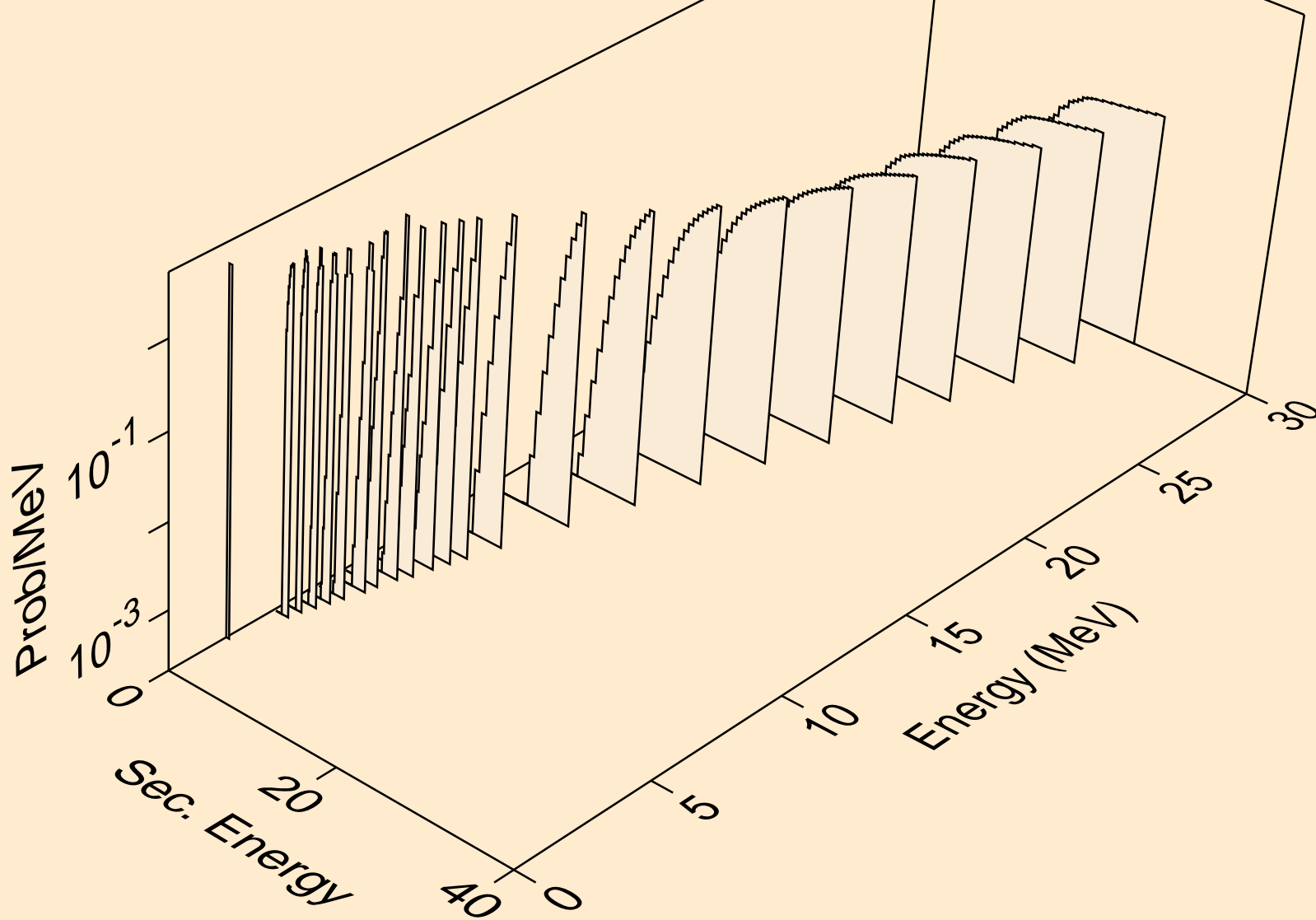
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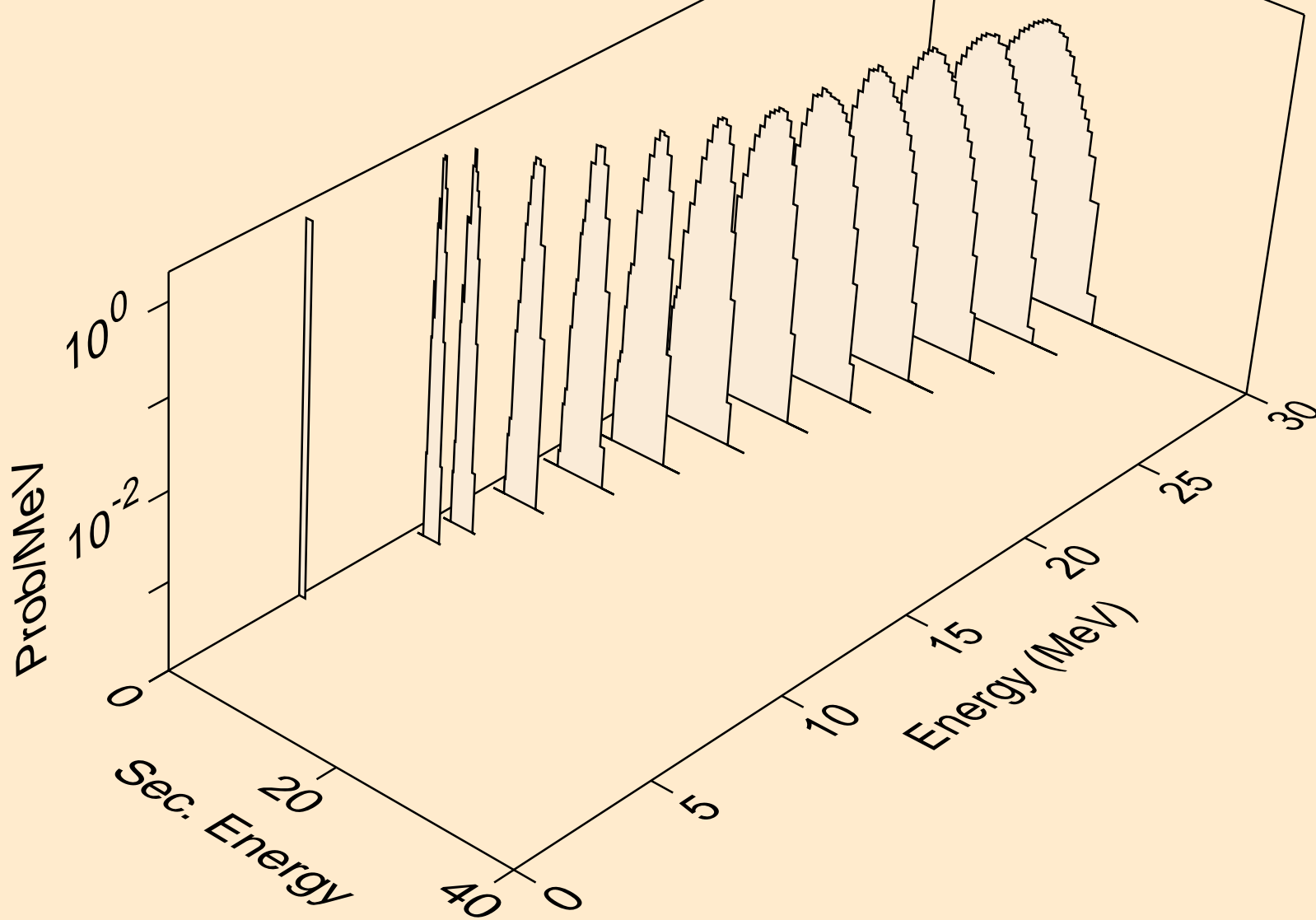
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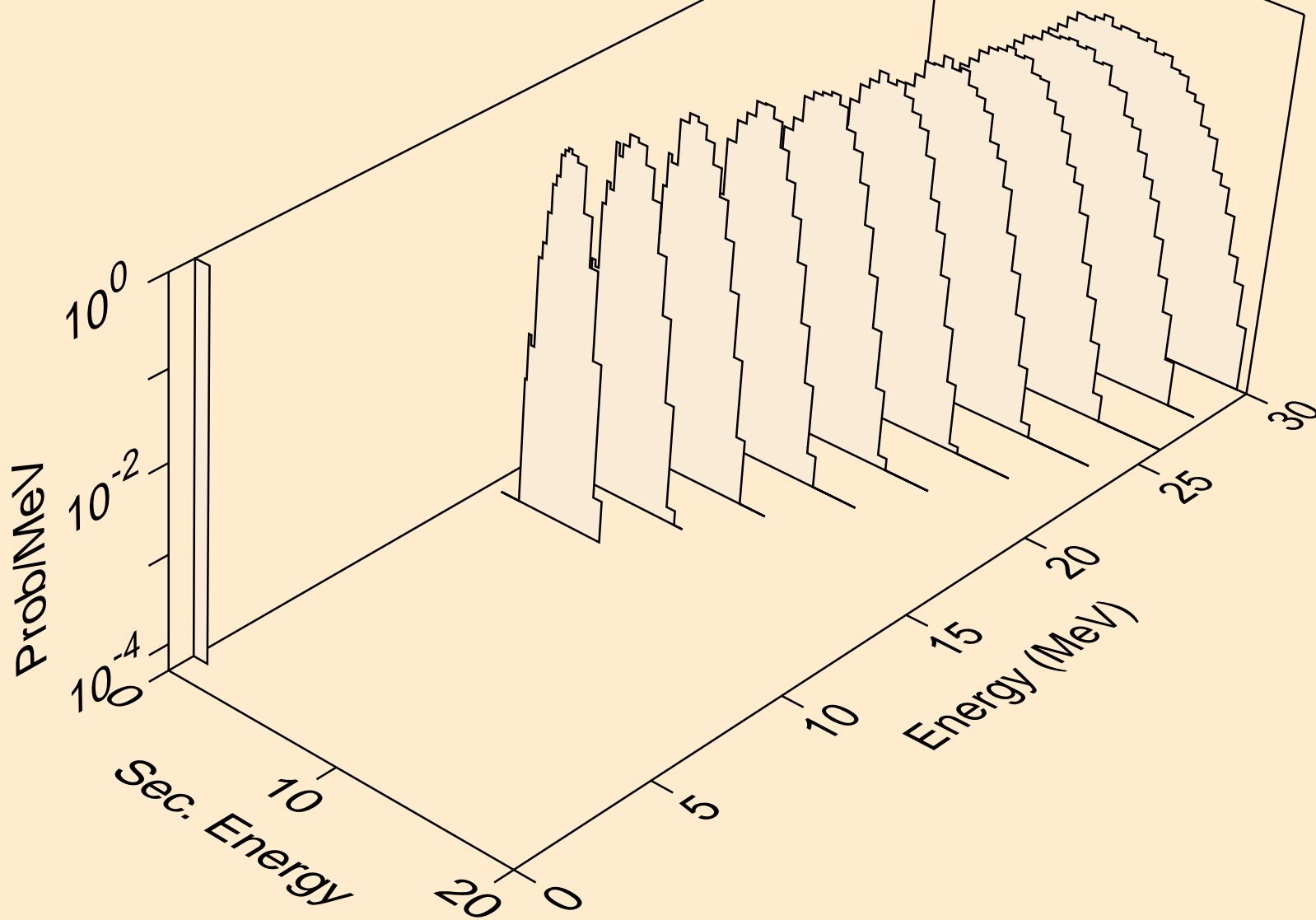
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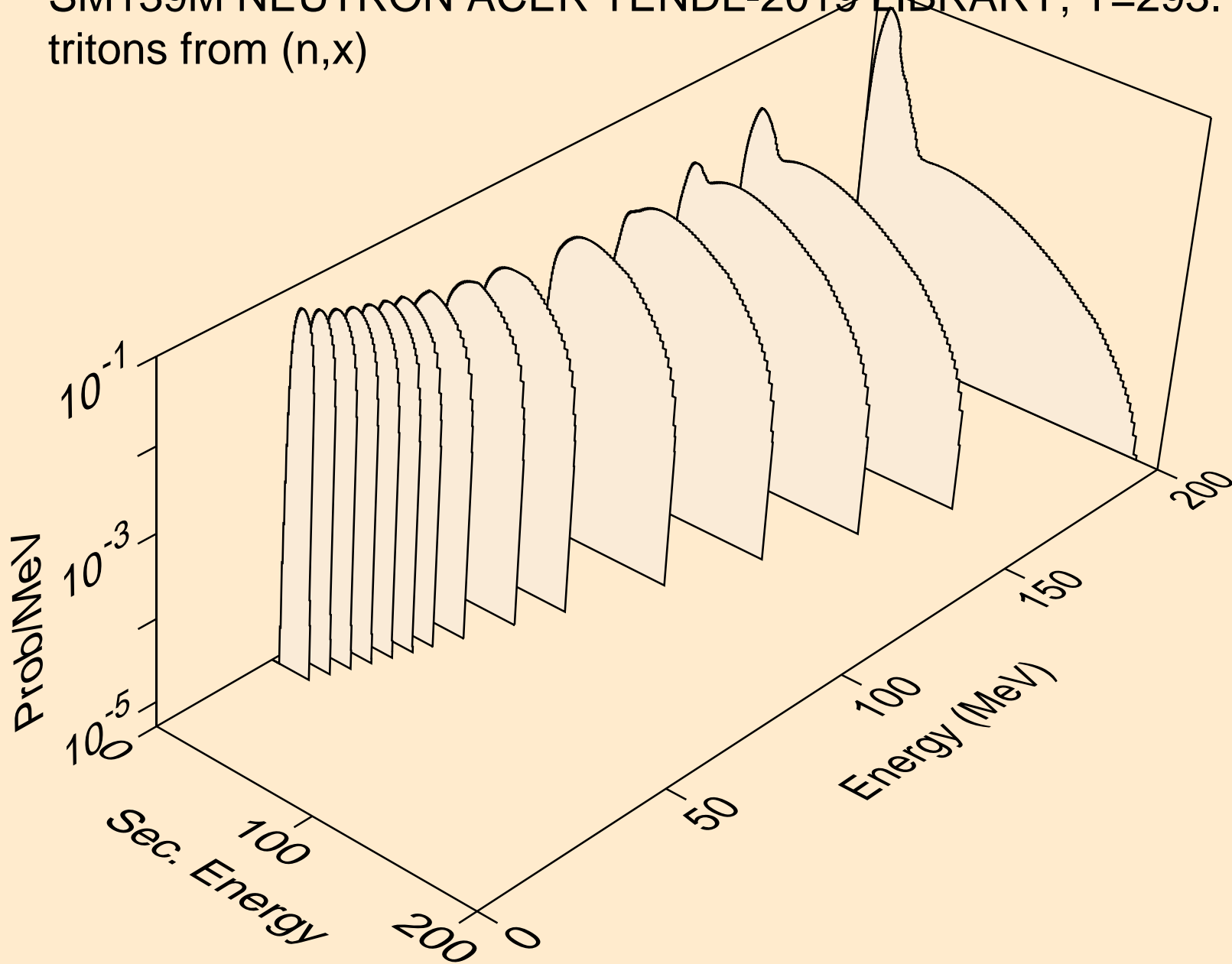
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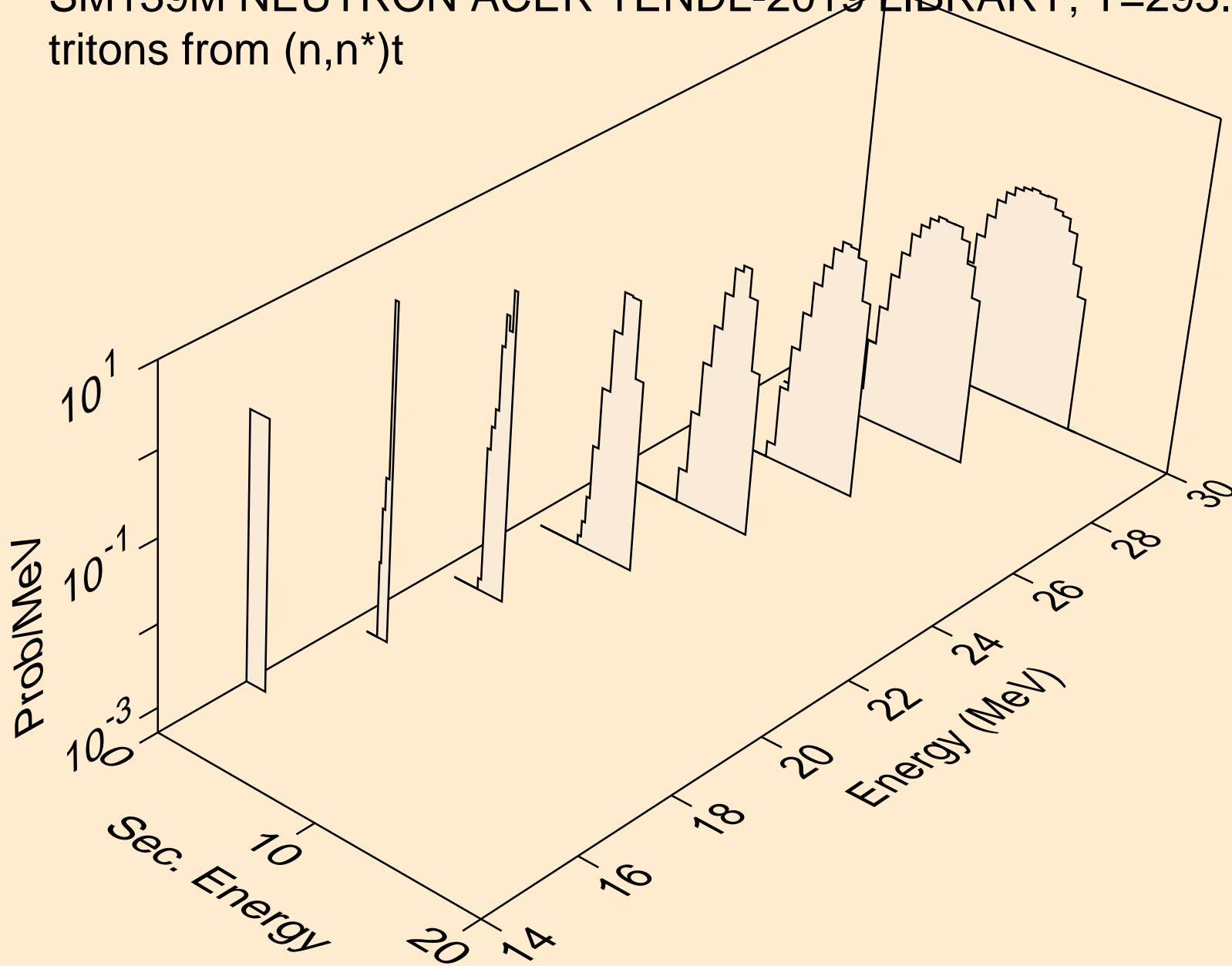
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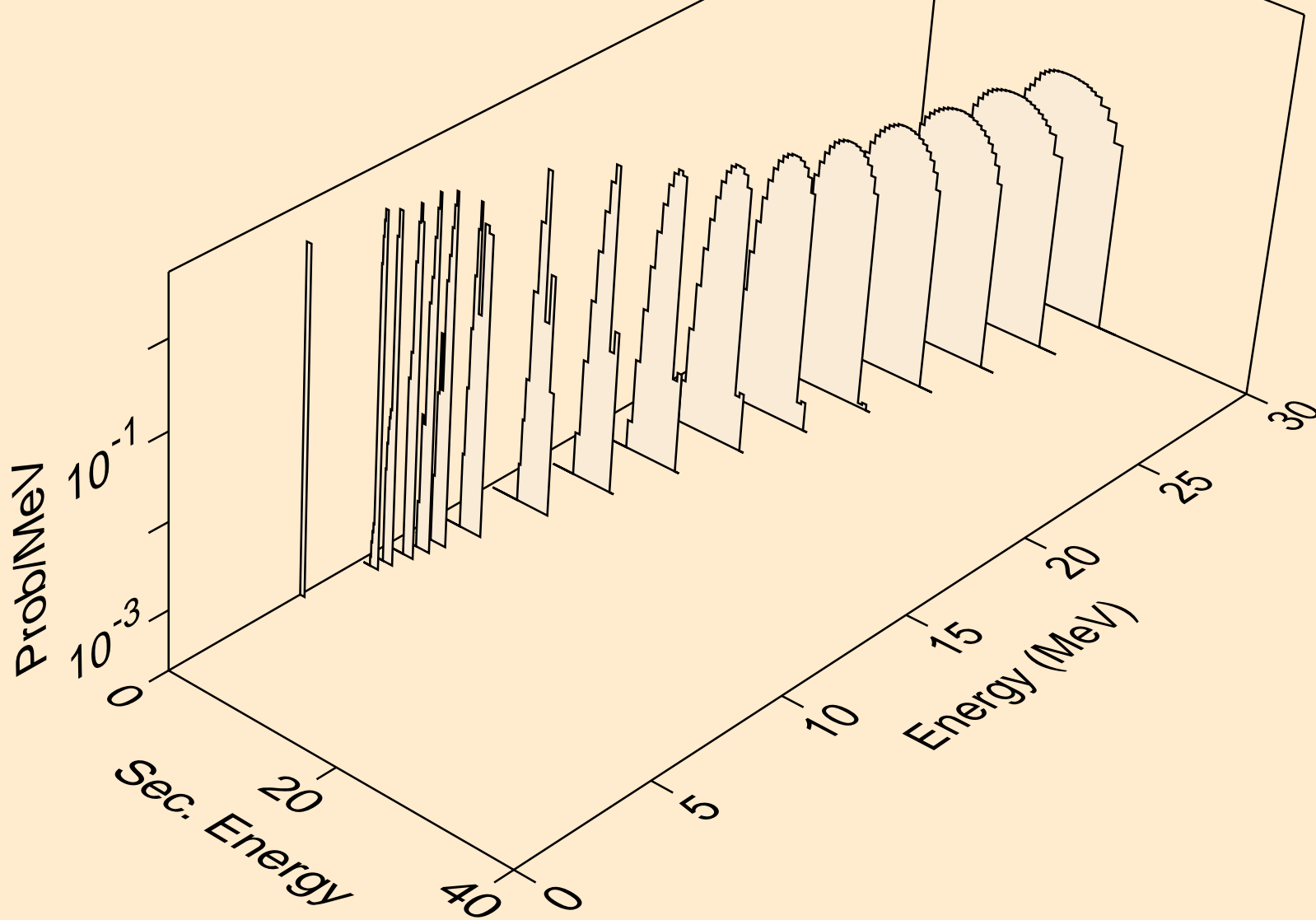
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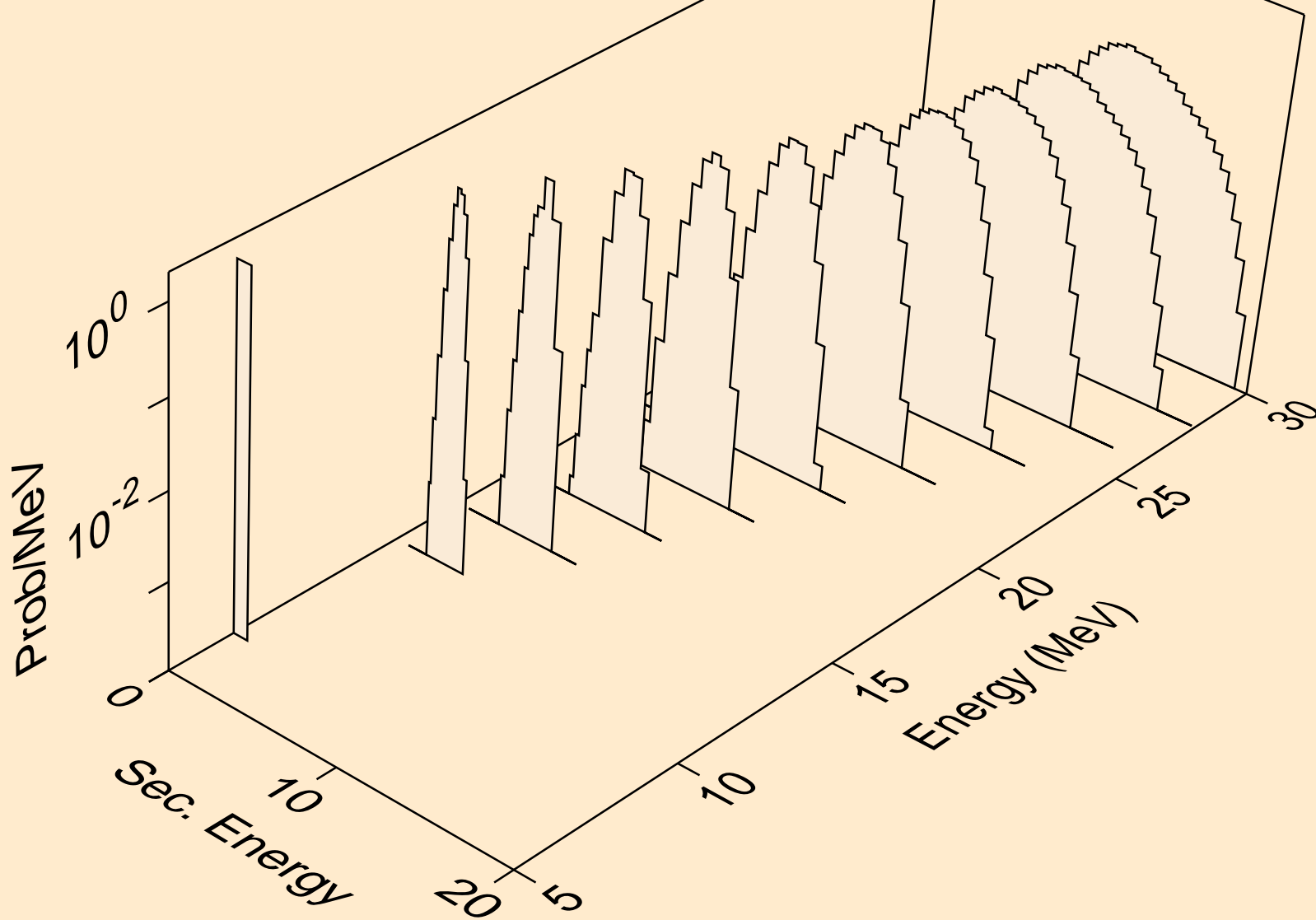
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tritons from (n,n*)t



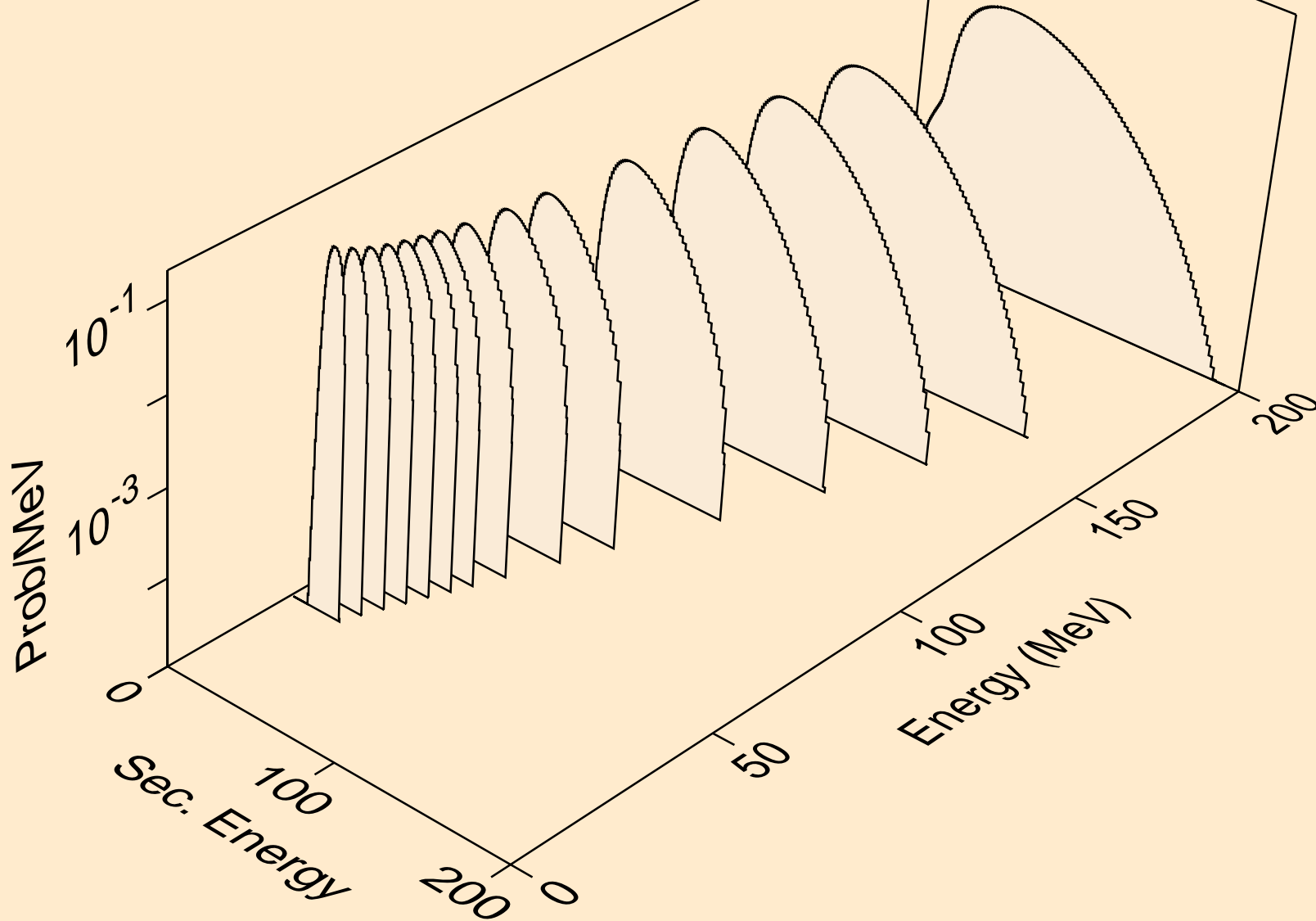
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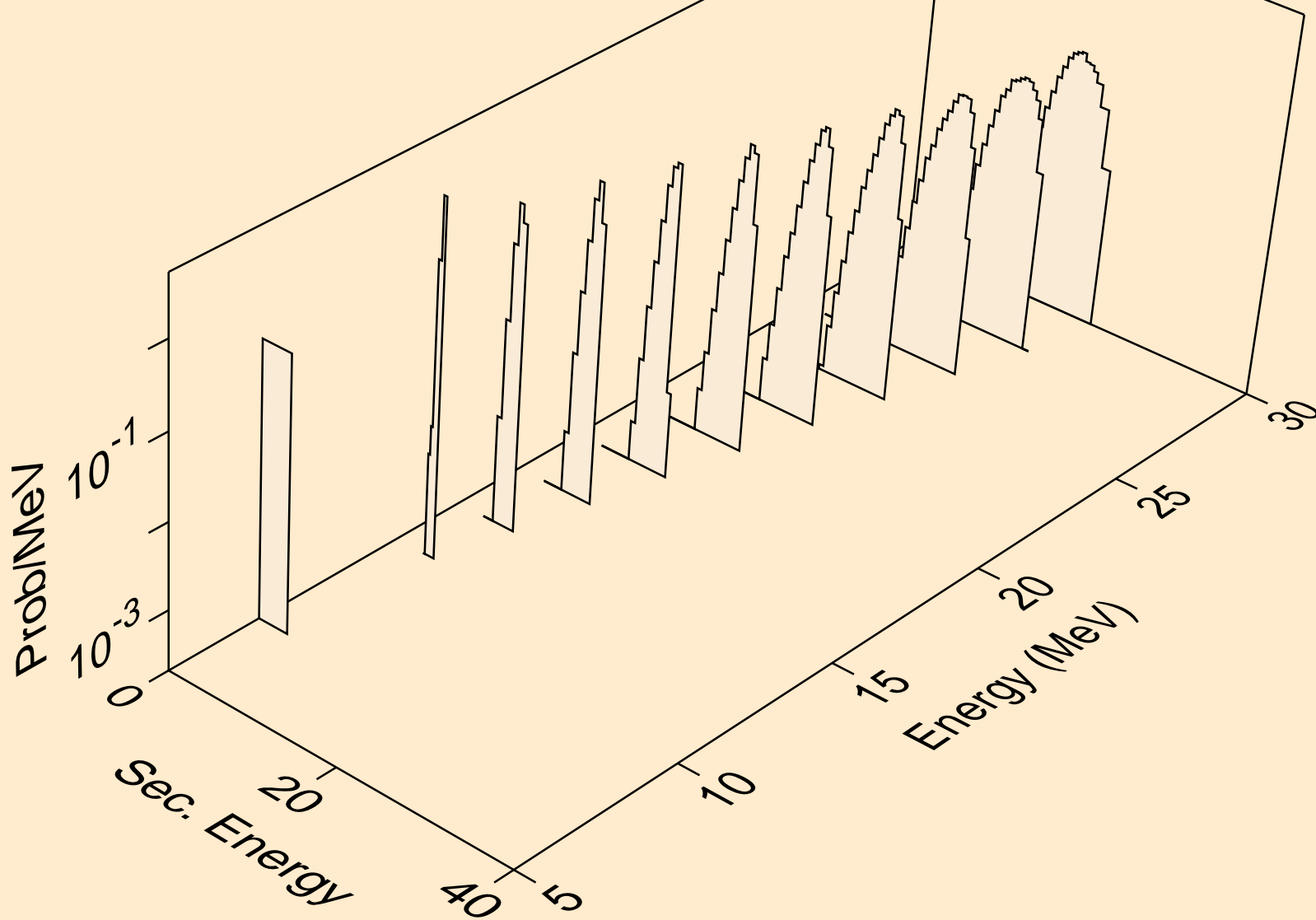
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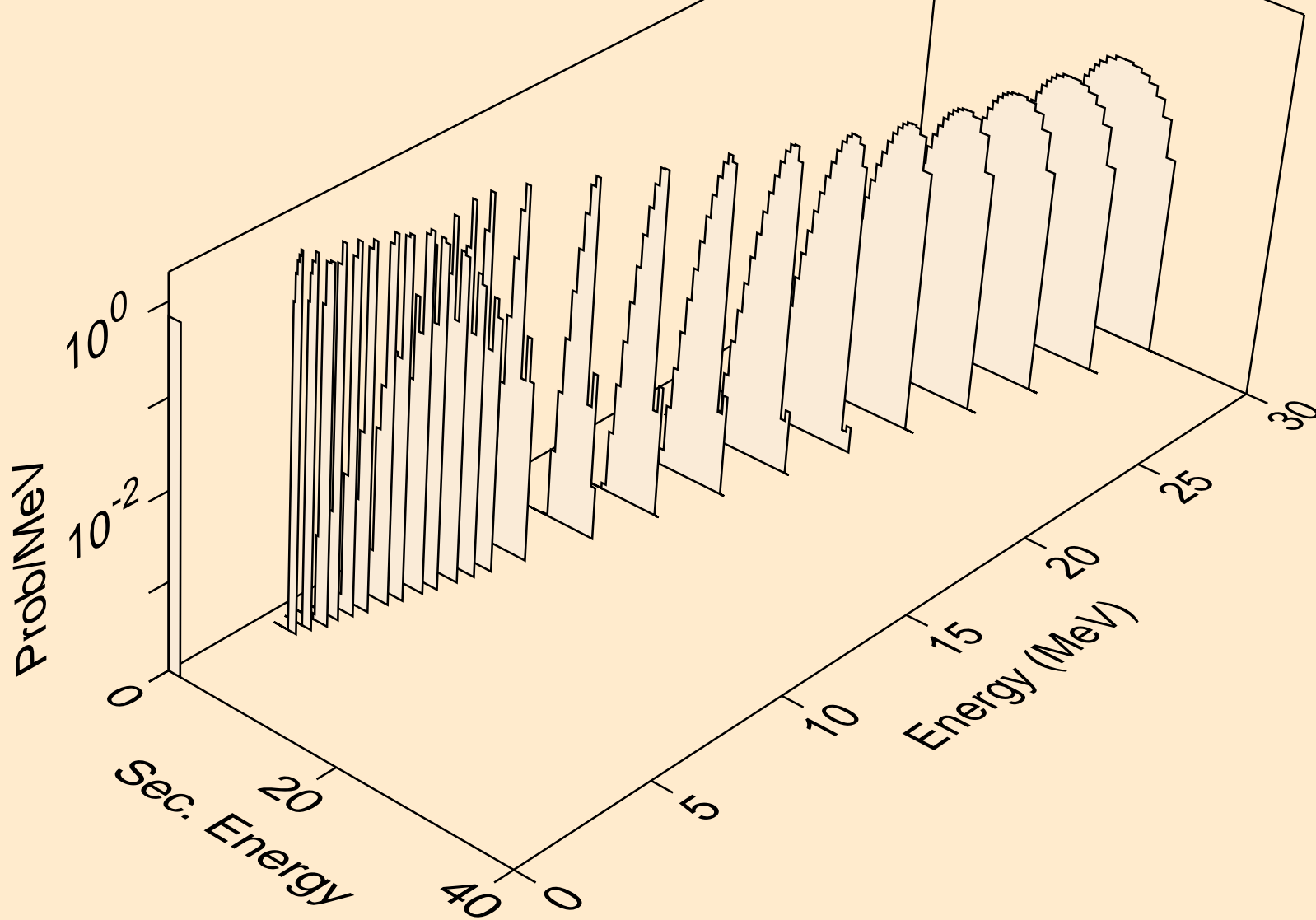
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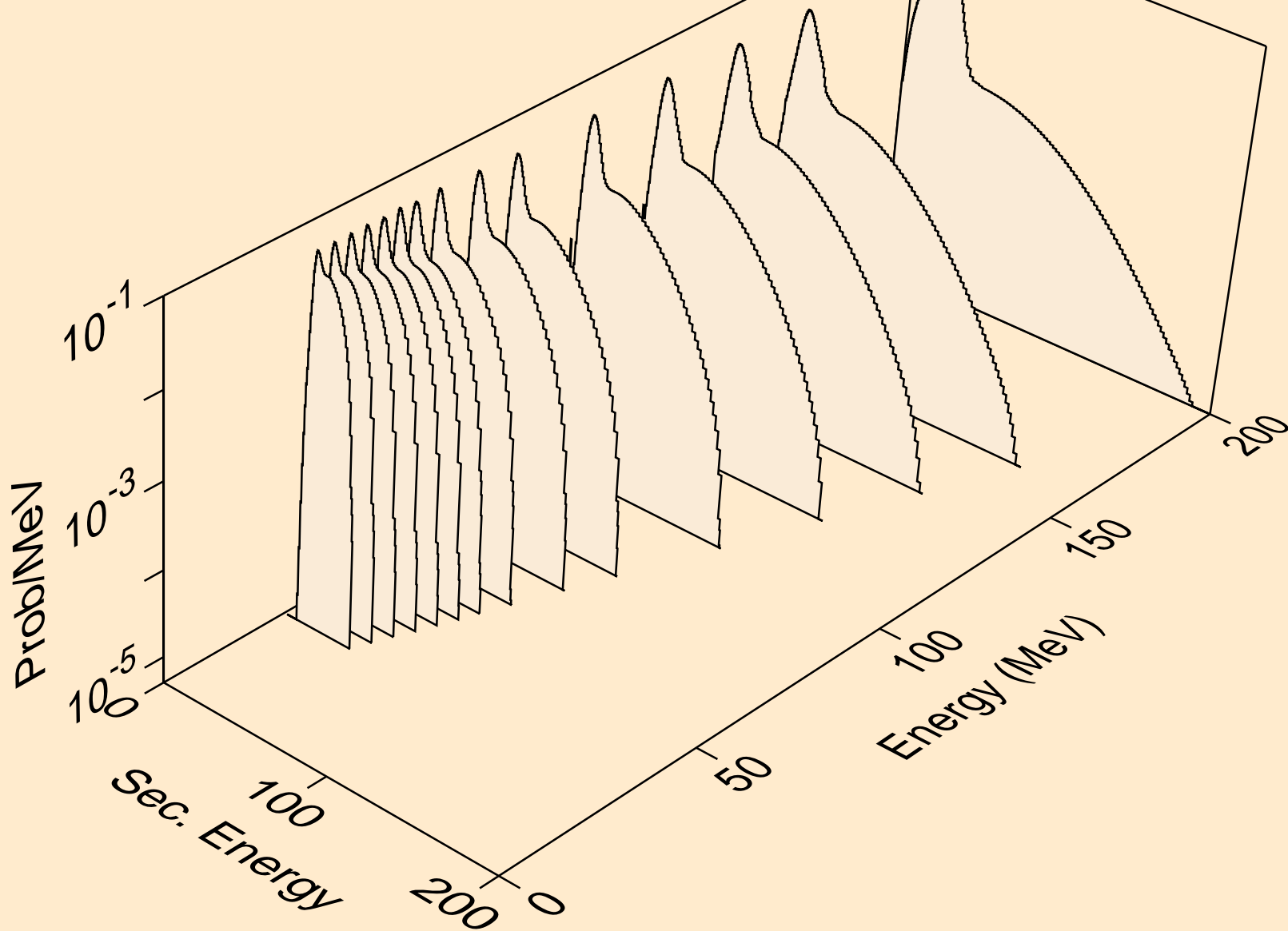
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he3s from (n,n*)he3



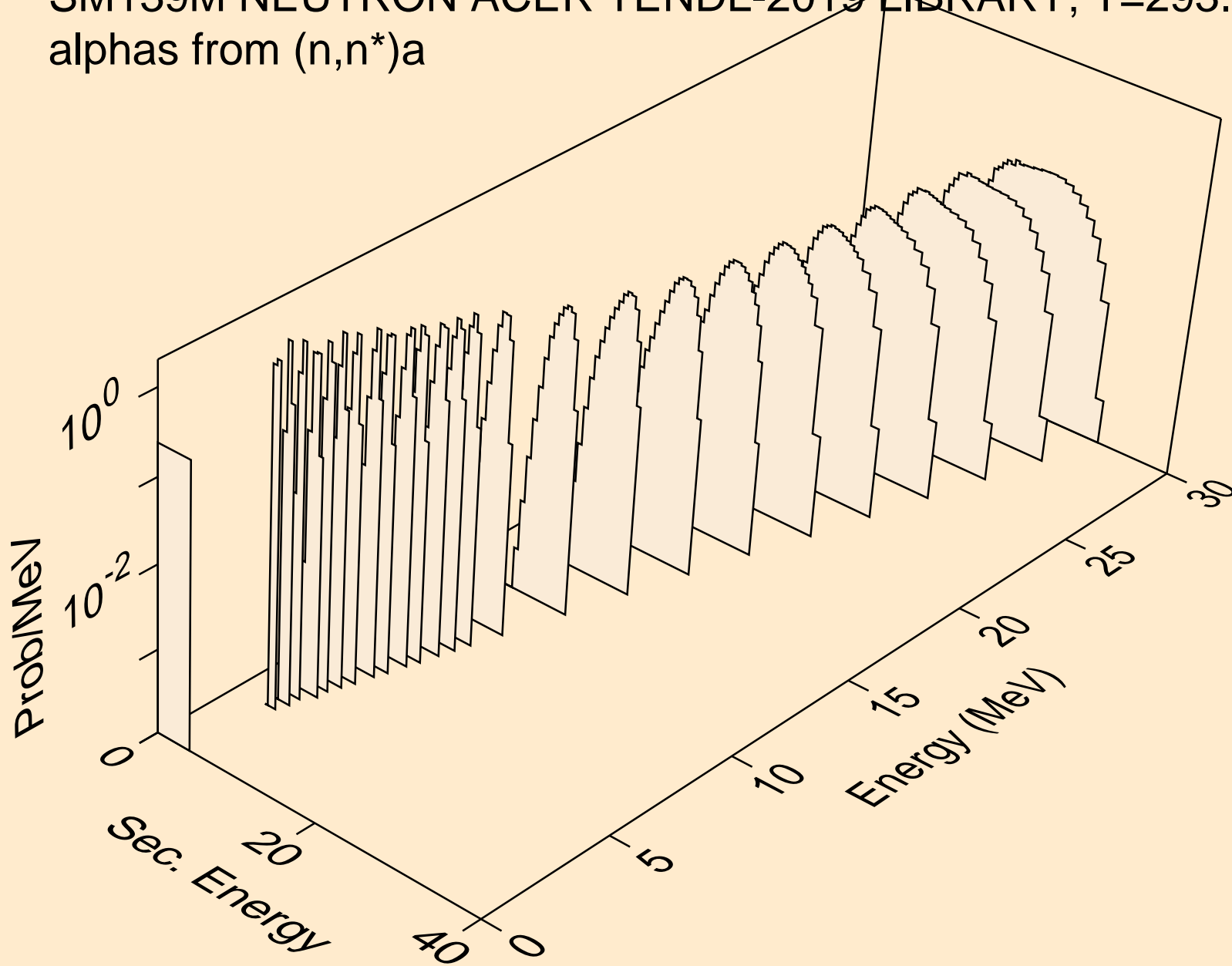
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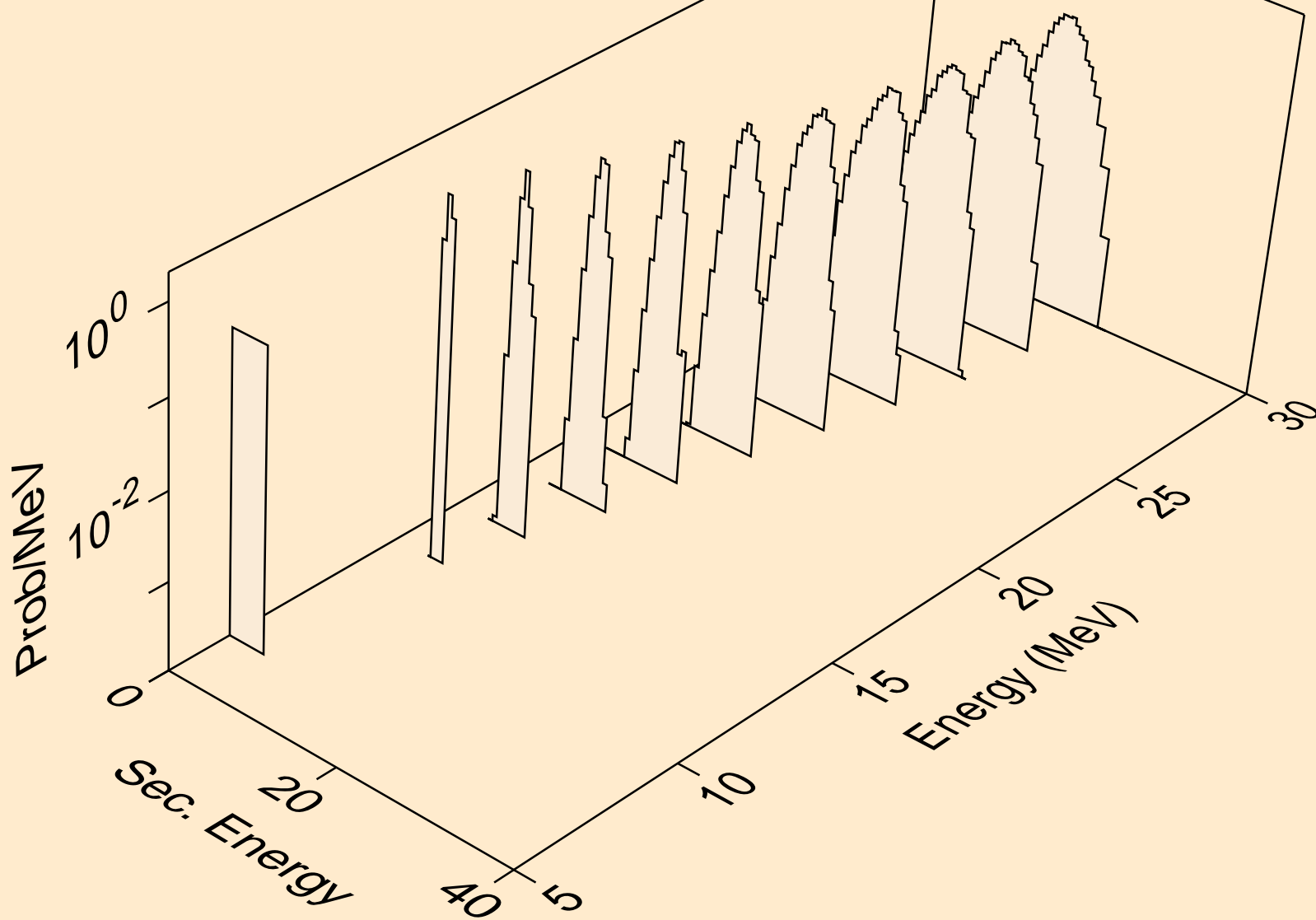
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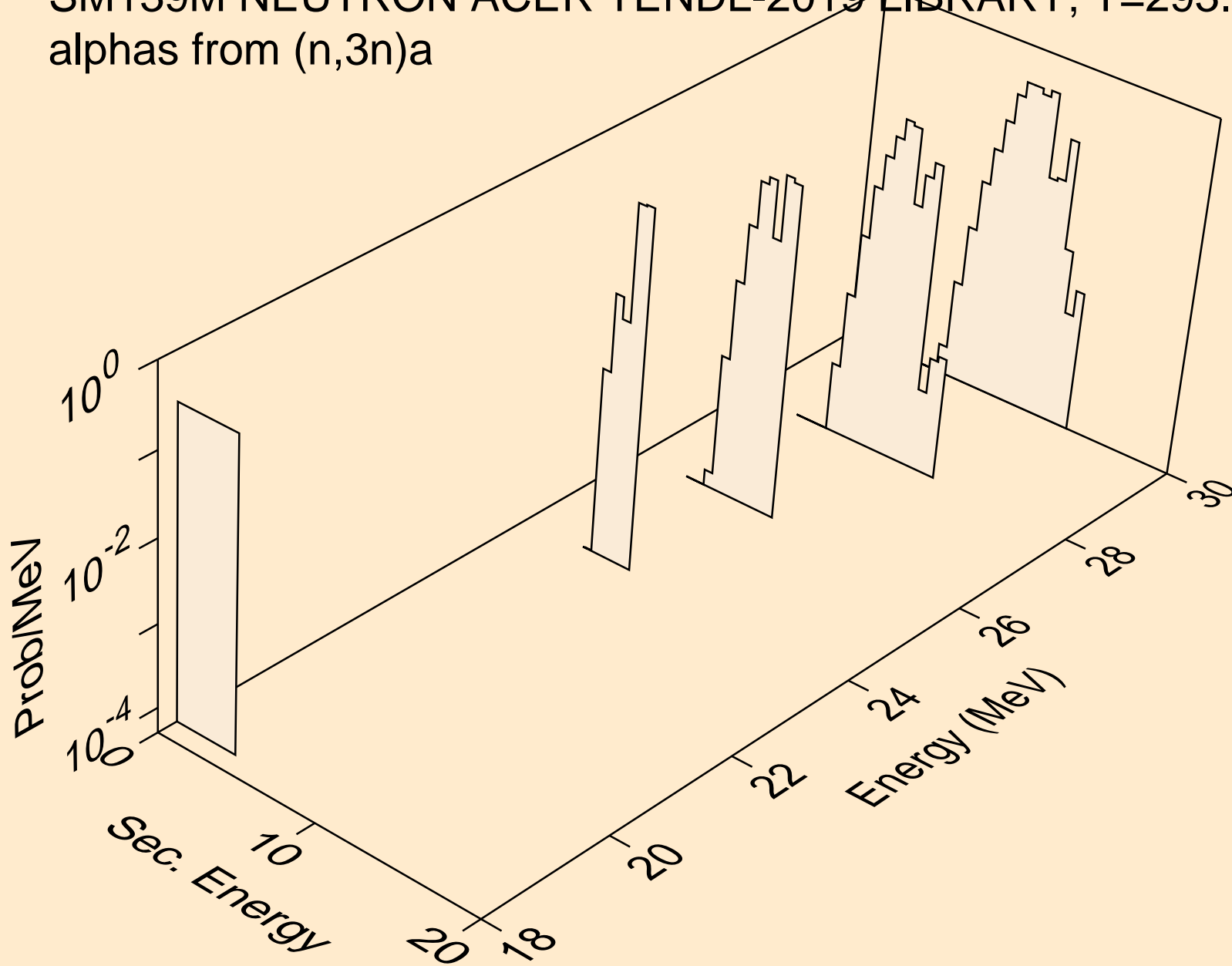
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alphas from (n,n*)a



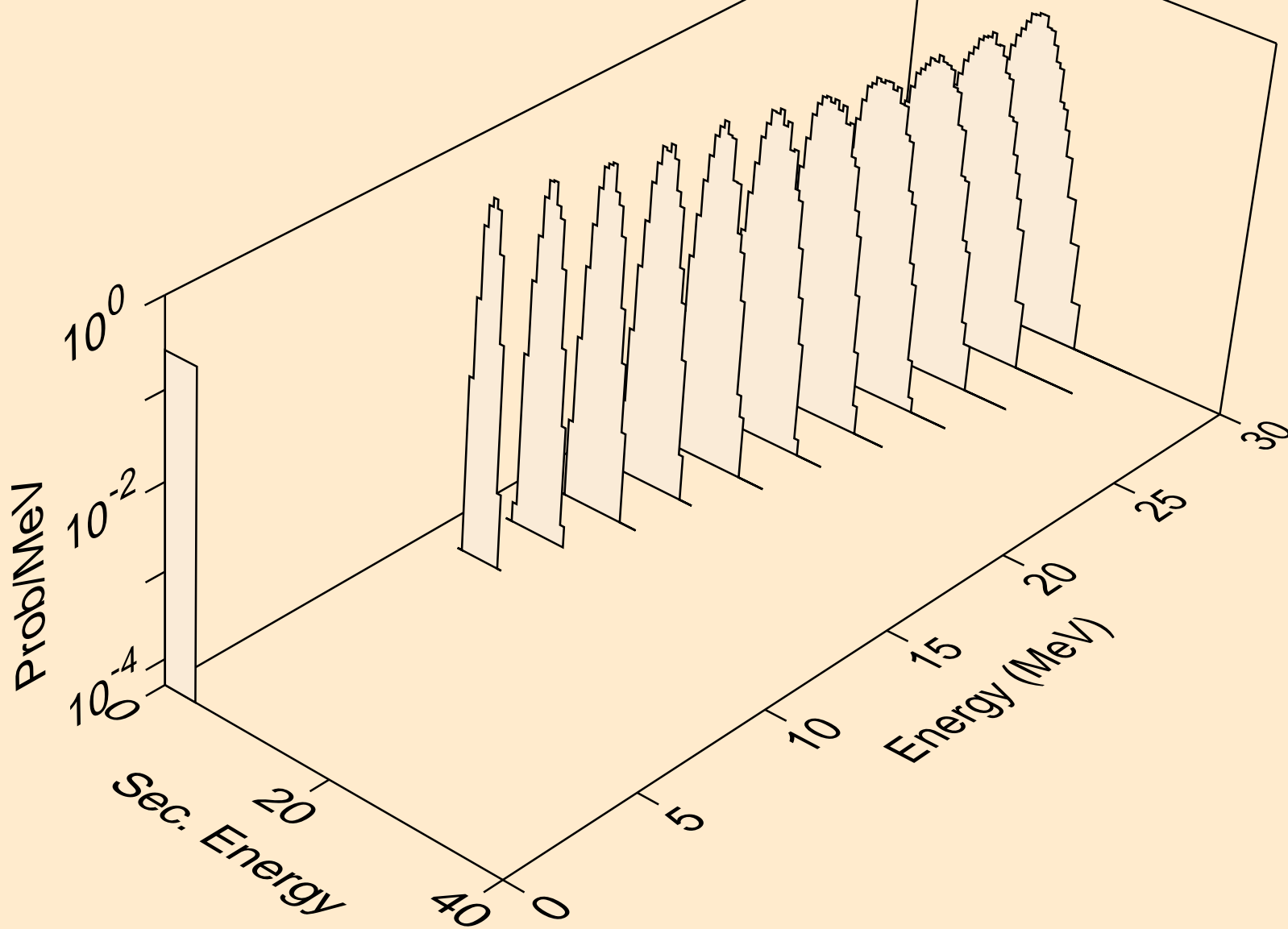
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alphas from (n,2n)a



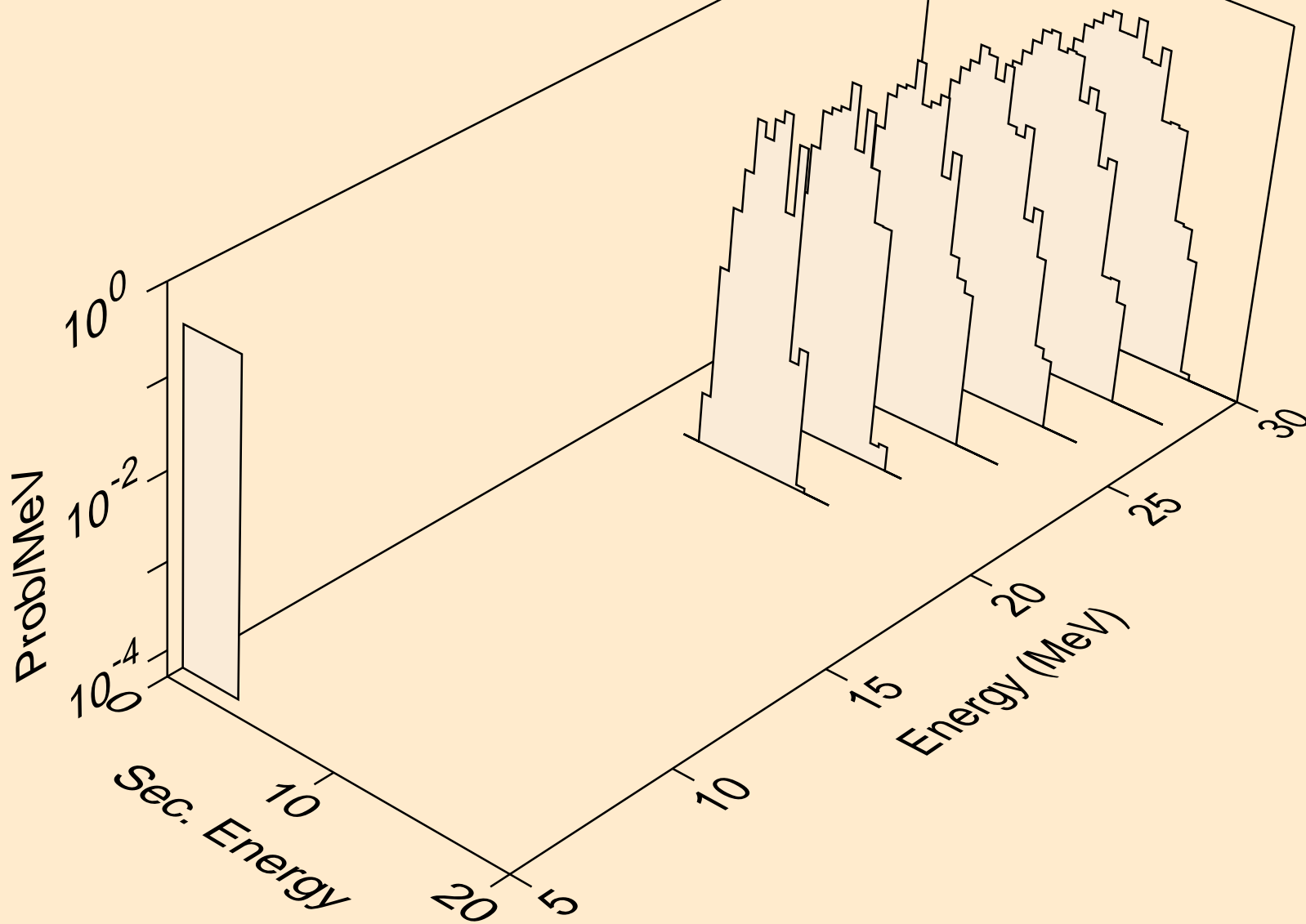
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alphas from (n,3n)a



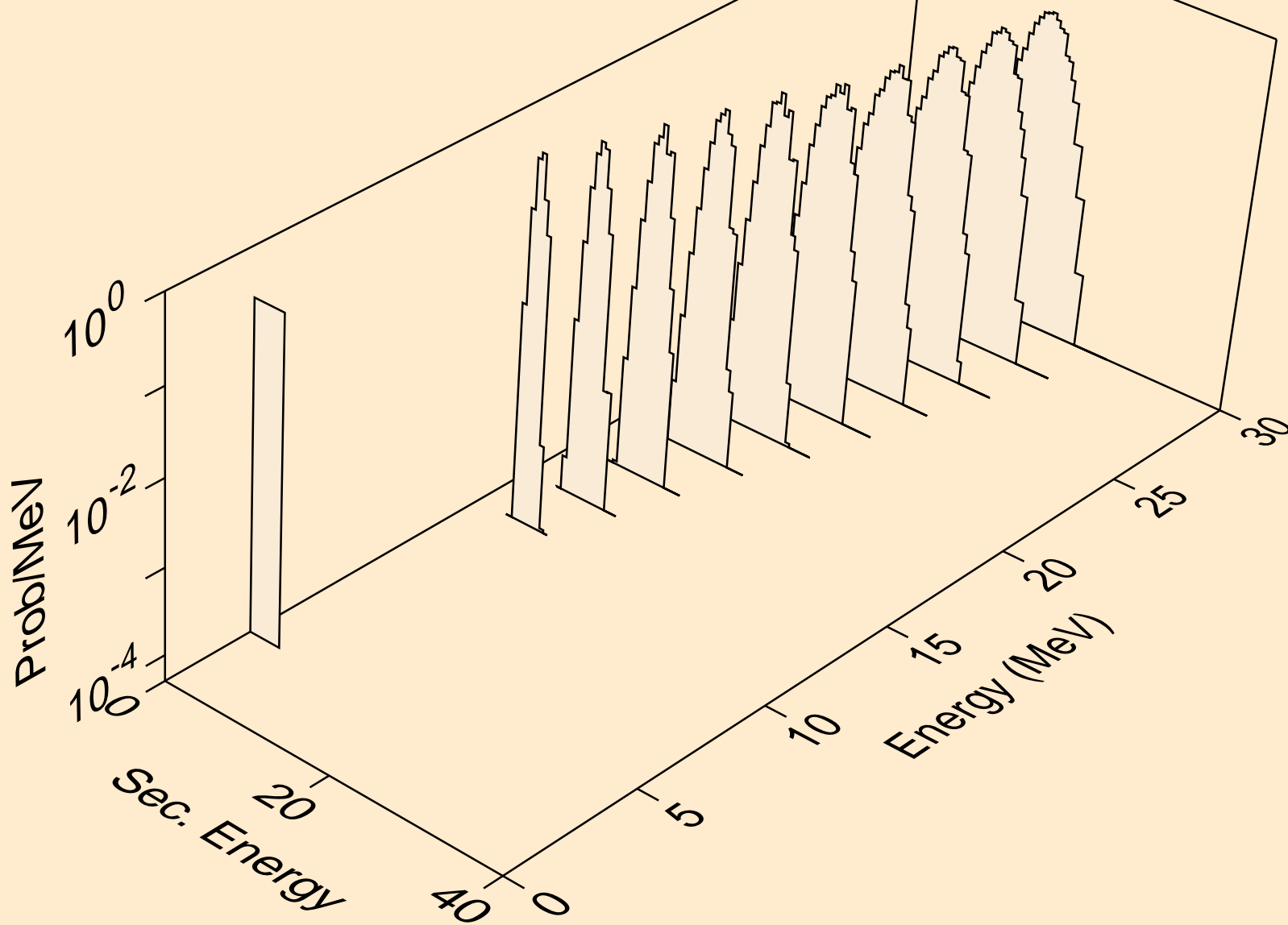
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alphas from (n,n*)2a



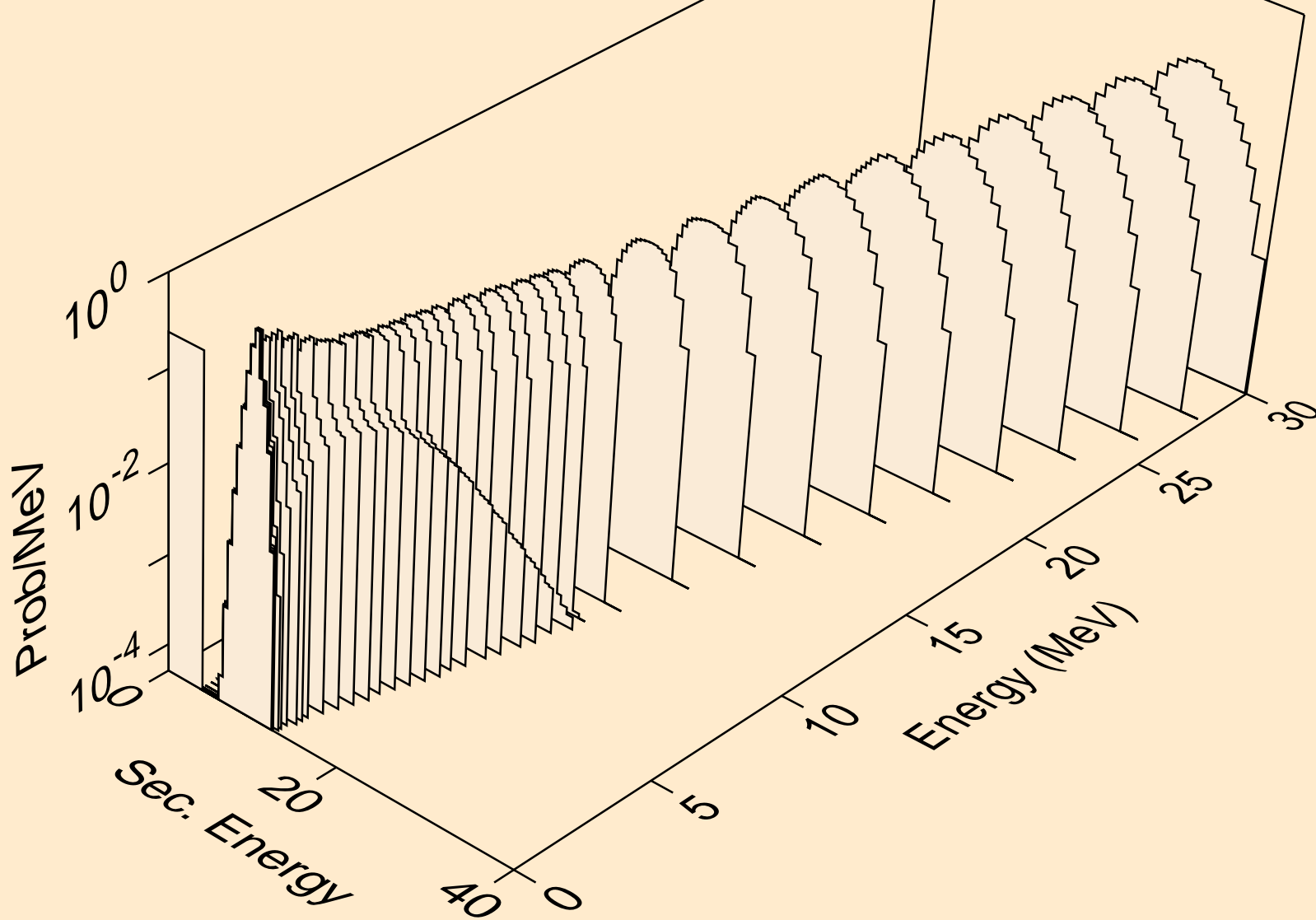
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alphas from (n,2n)2a



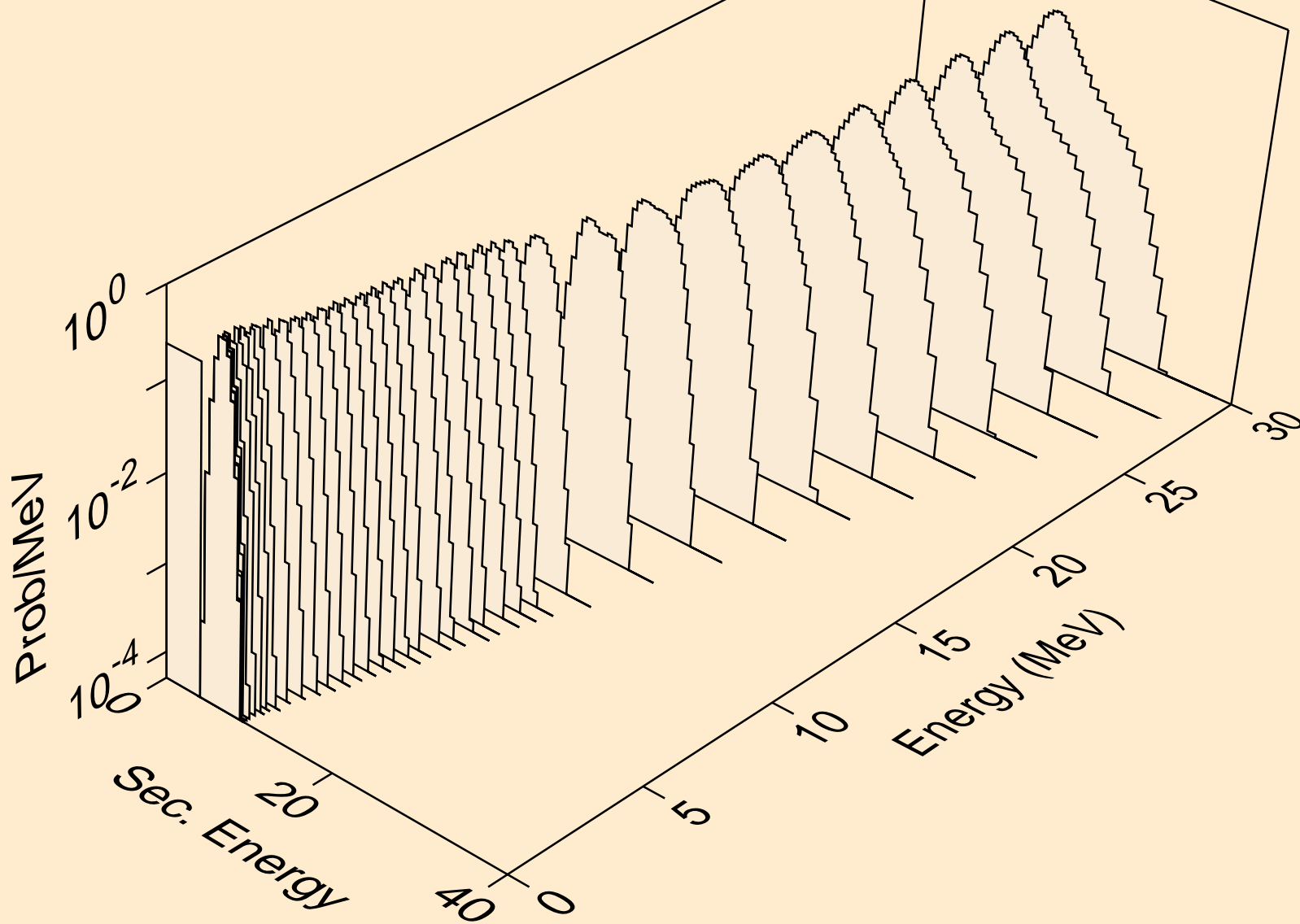
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alphas from (n,npa)



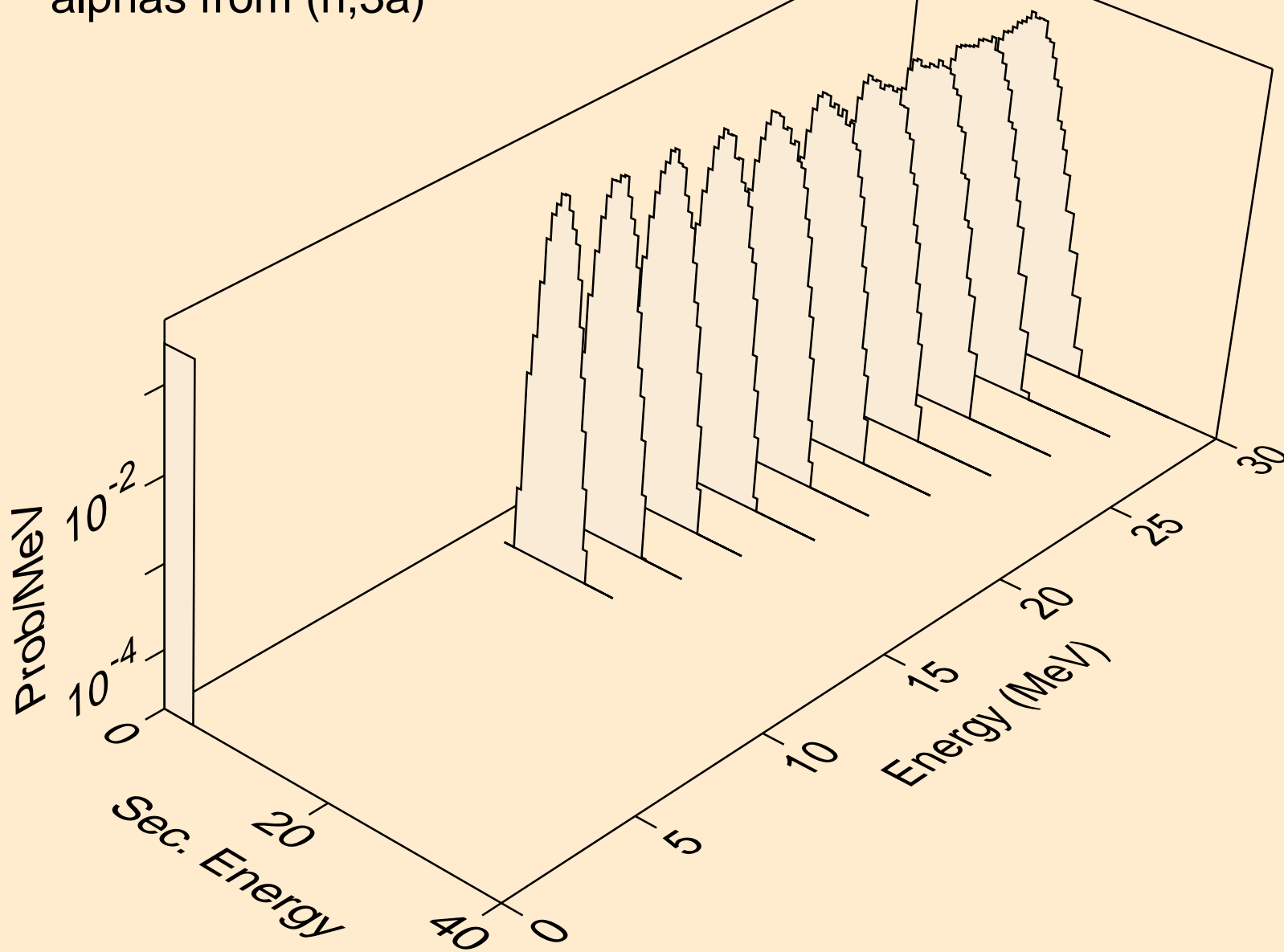
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alphas from (n,a)



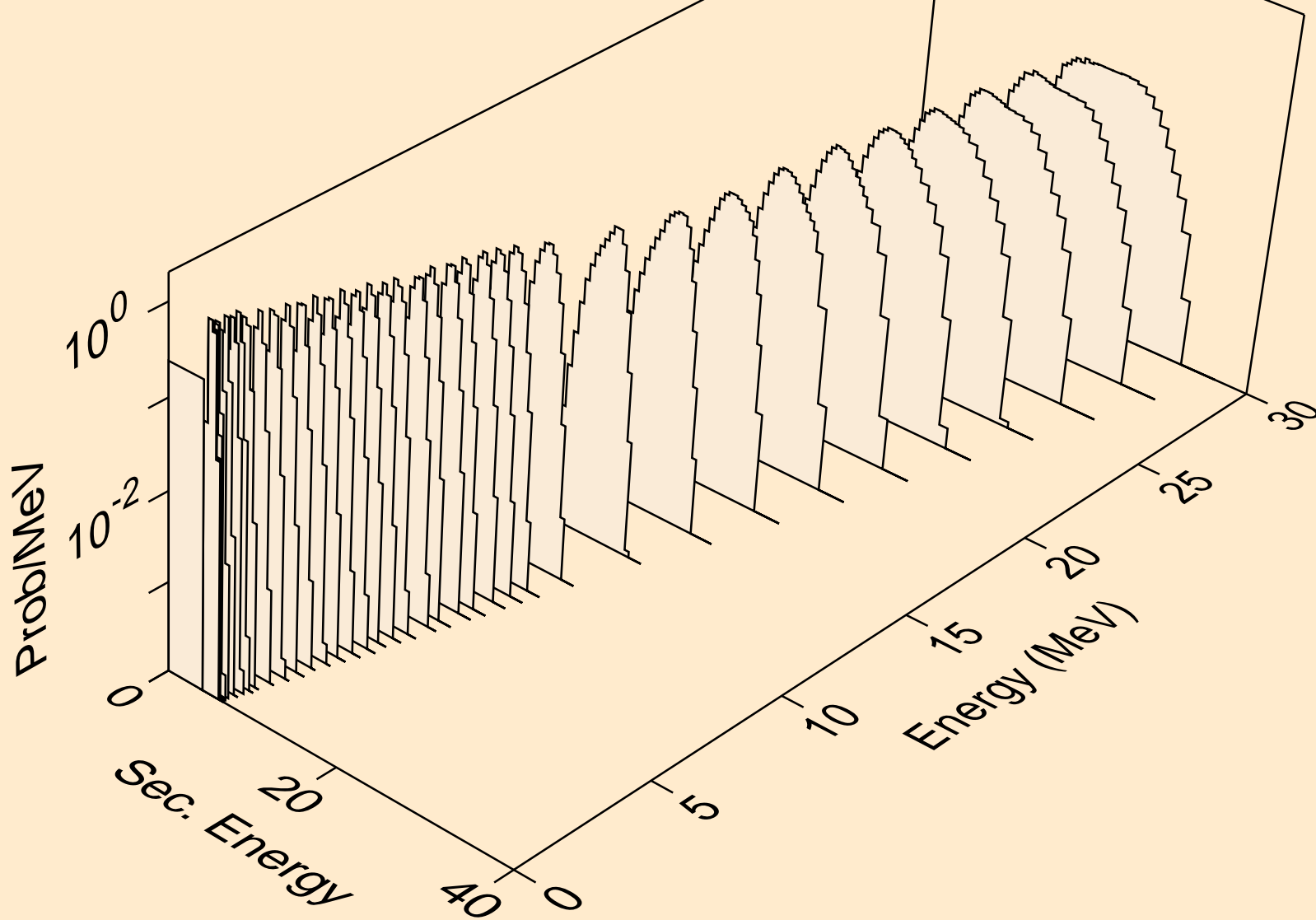
SM139M NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
alphas from (n,2a)



SM139M NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
alphas from (n,3a)



SM139M NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
alphas from (n,pa)



SM139M NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K
alphas from (n,da)

