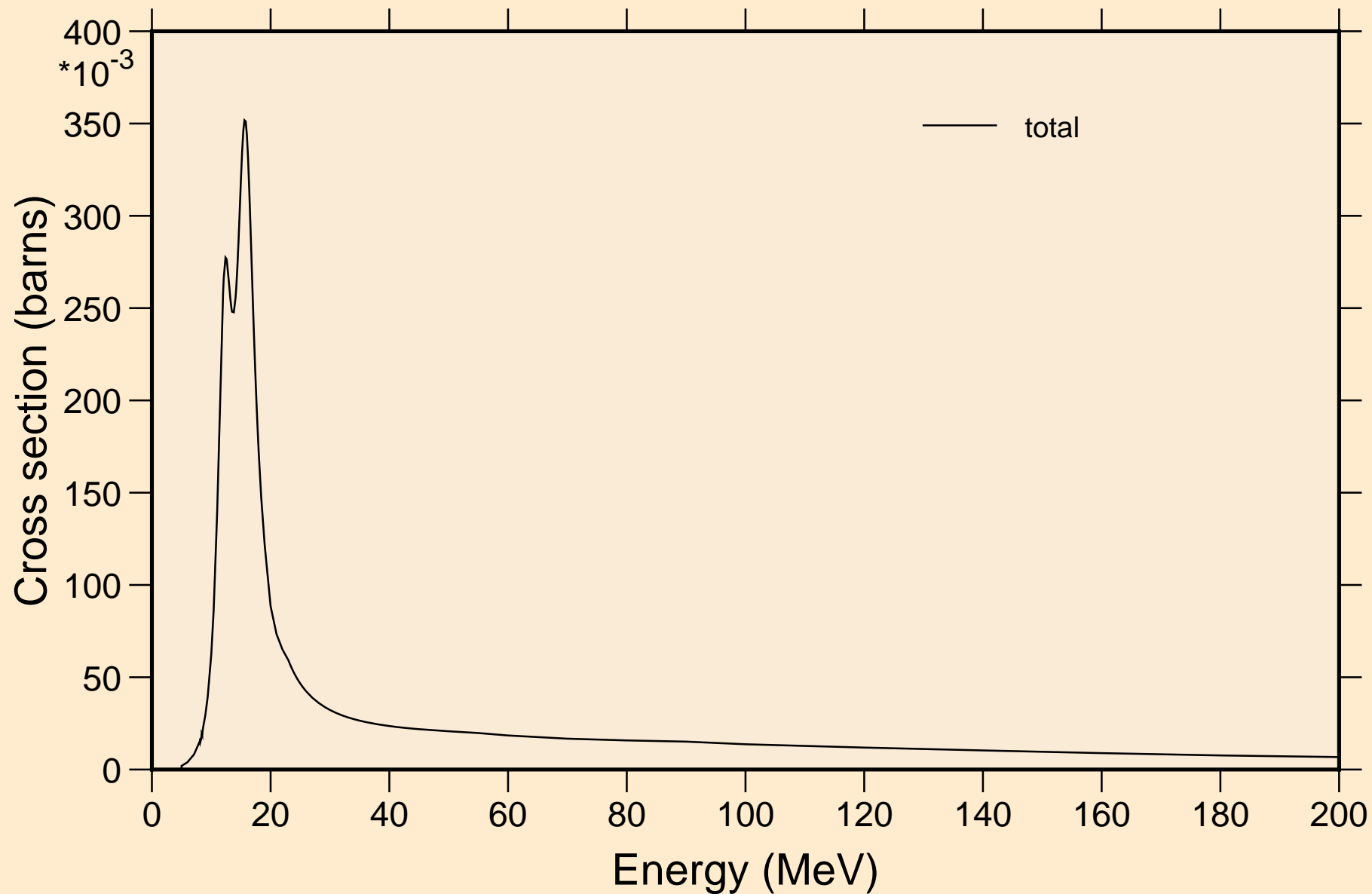


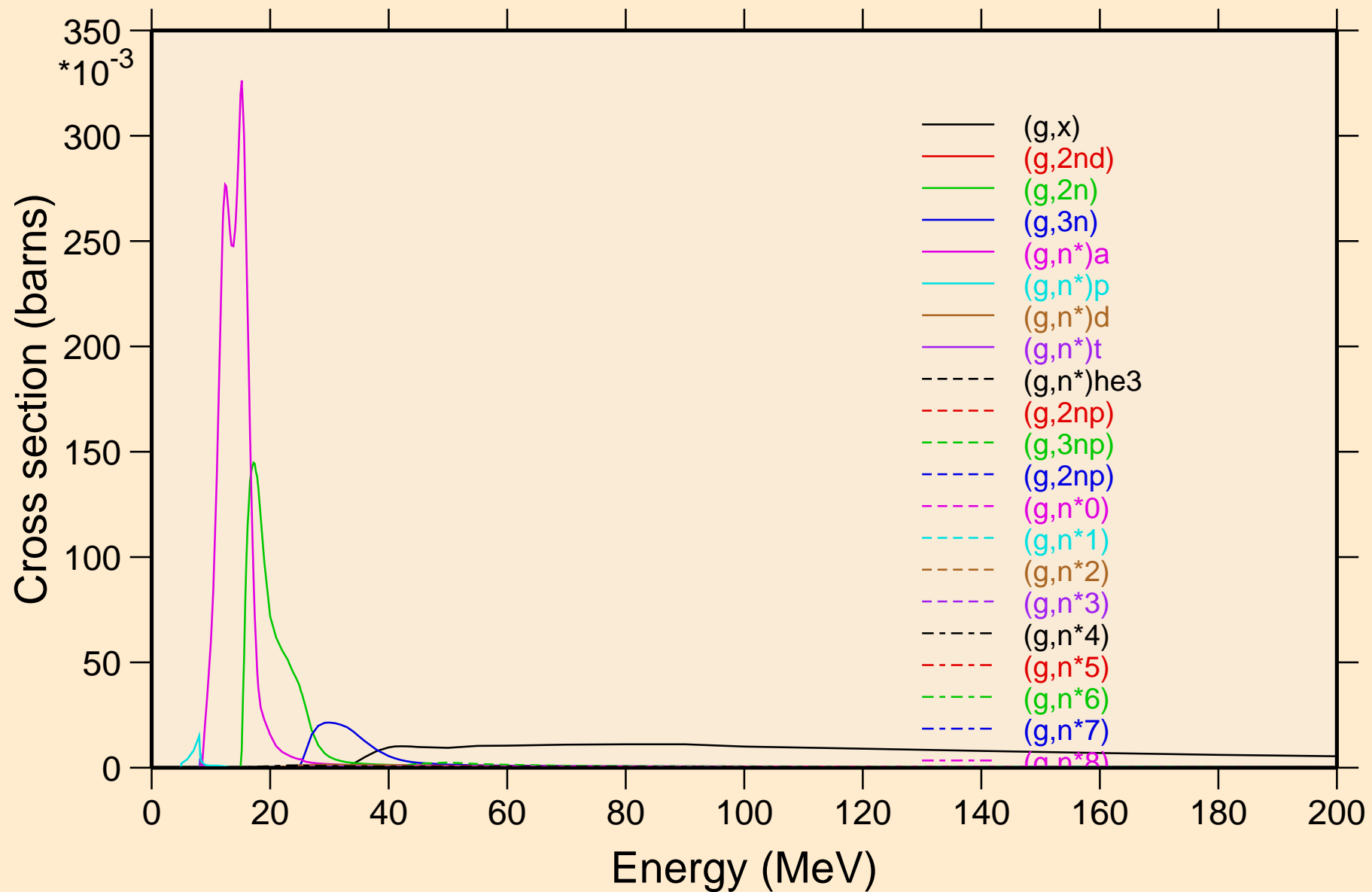
ACE TM169-G EMPIRE

Principal cross sections



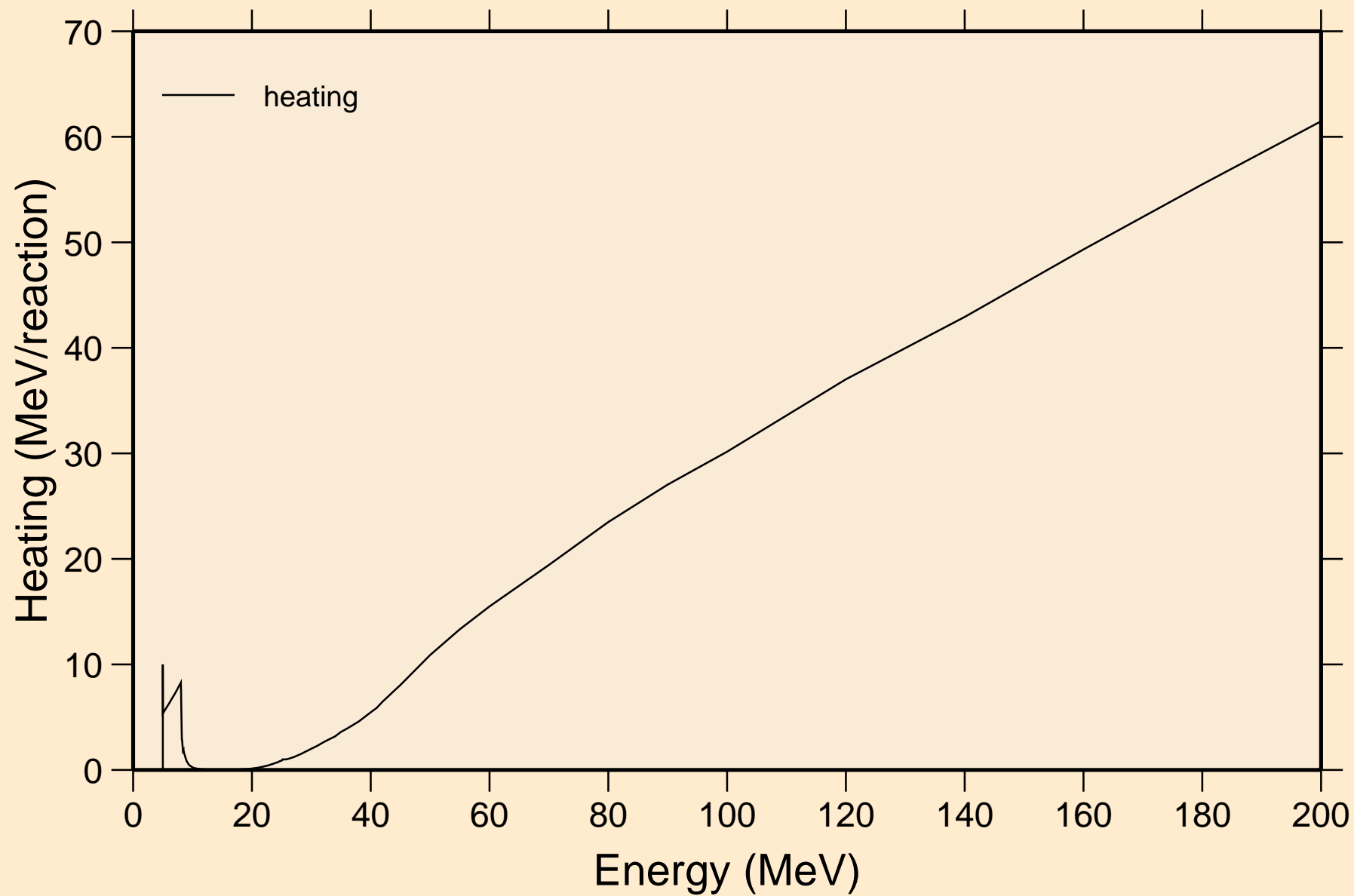
ACE TM169-G EMPIRE

Partial cross sections



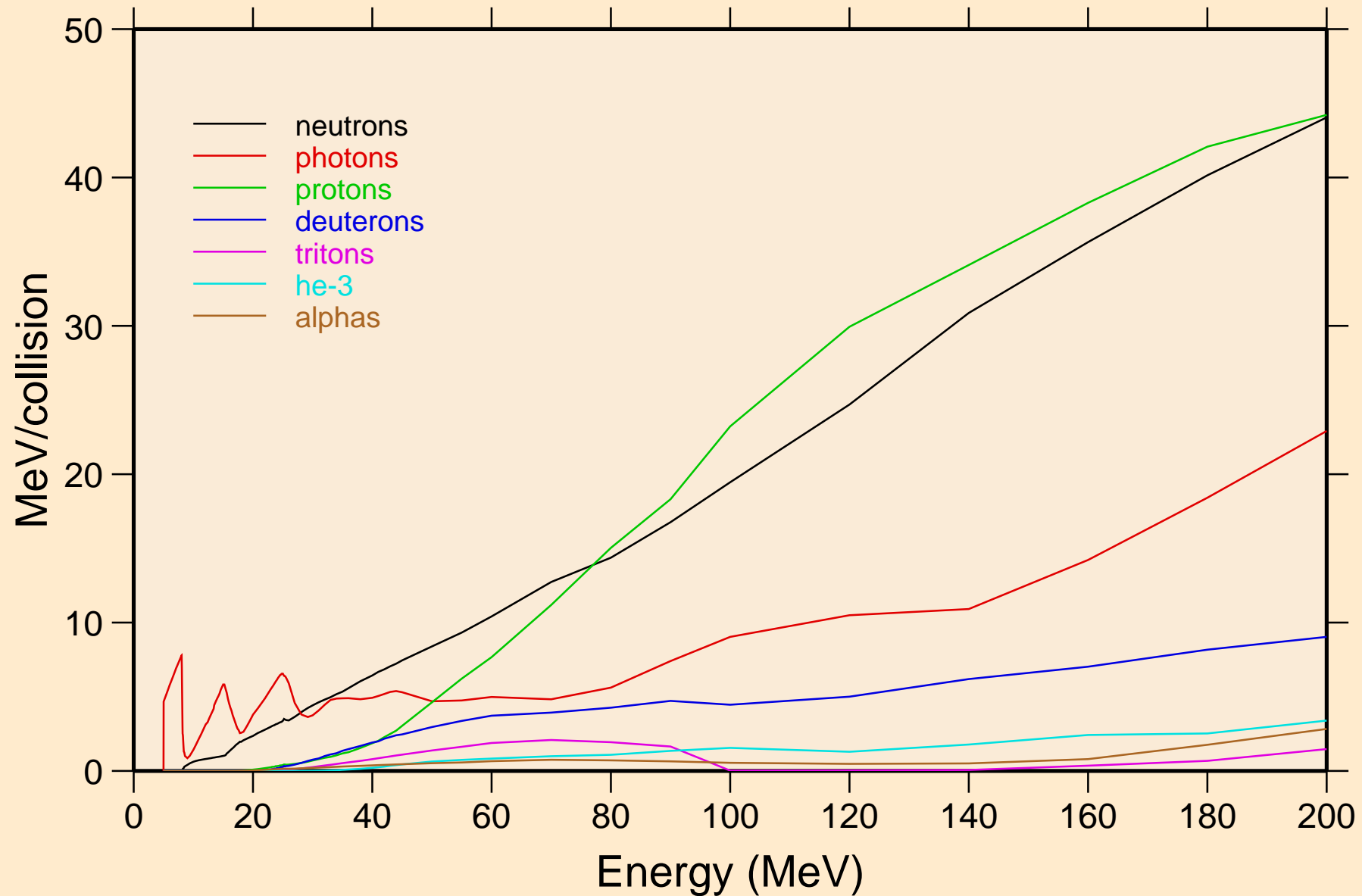
ACE TM169-G EMPIRE

Heating



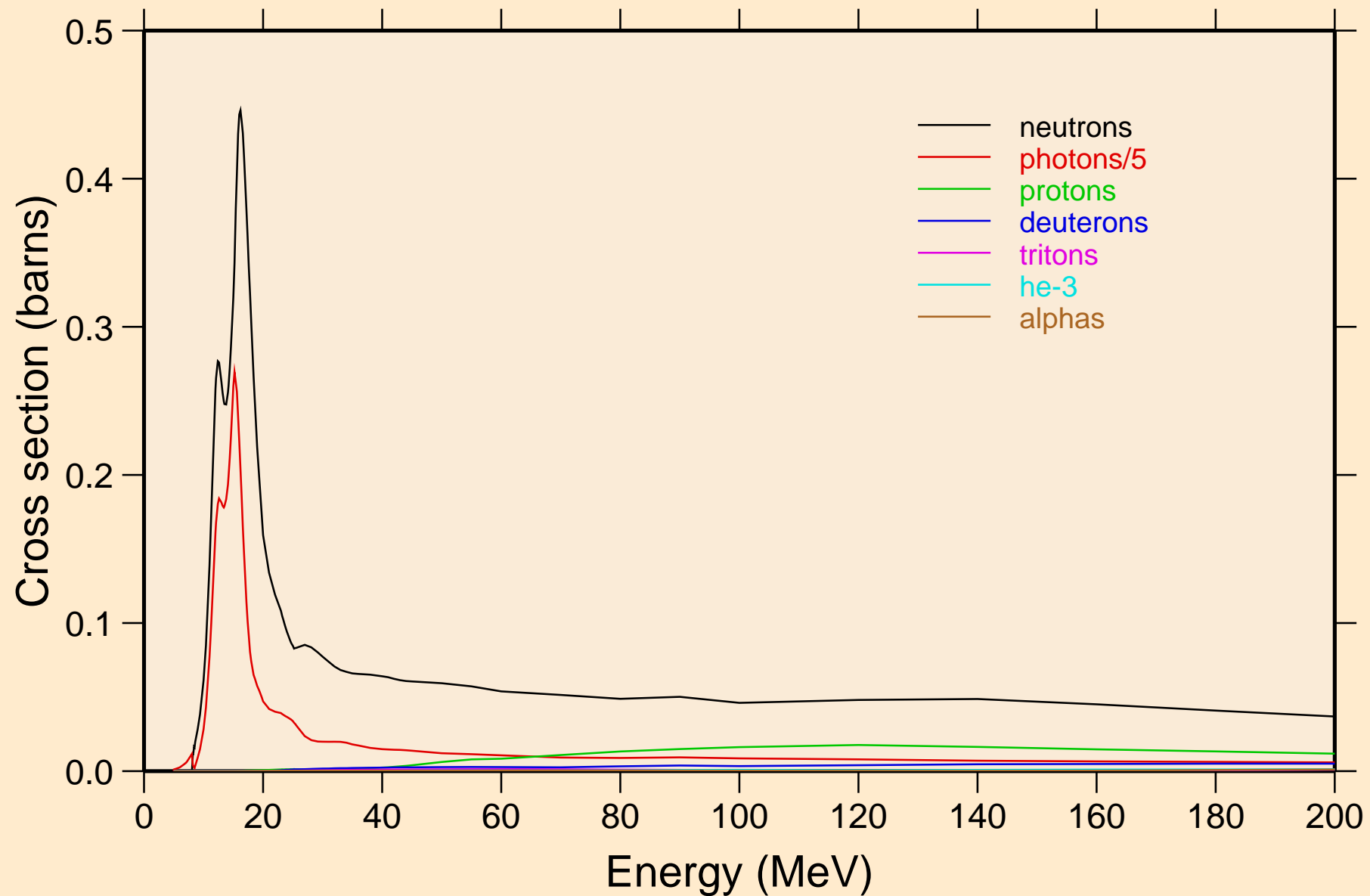
ACE TM169-G EMPIRE

Particle heating contributions



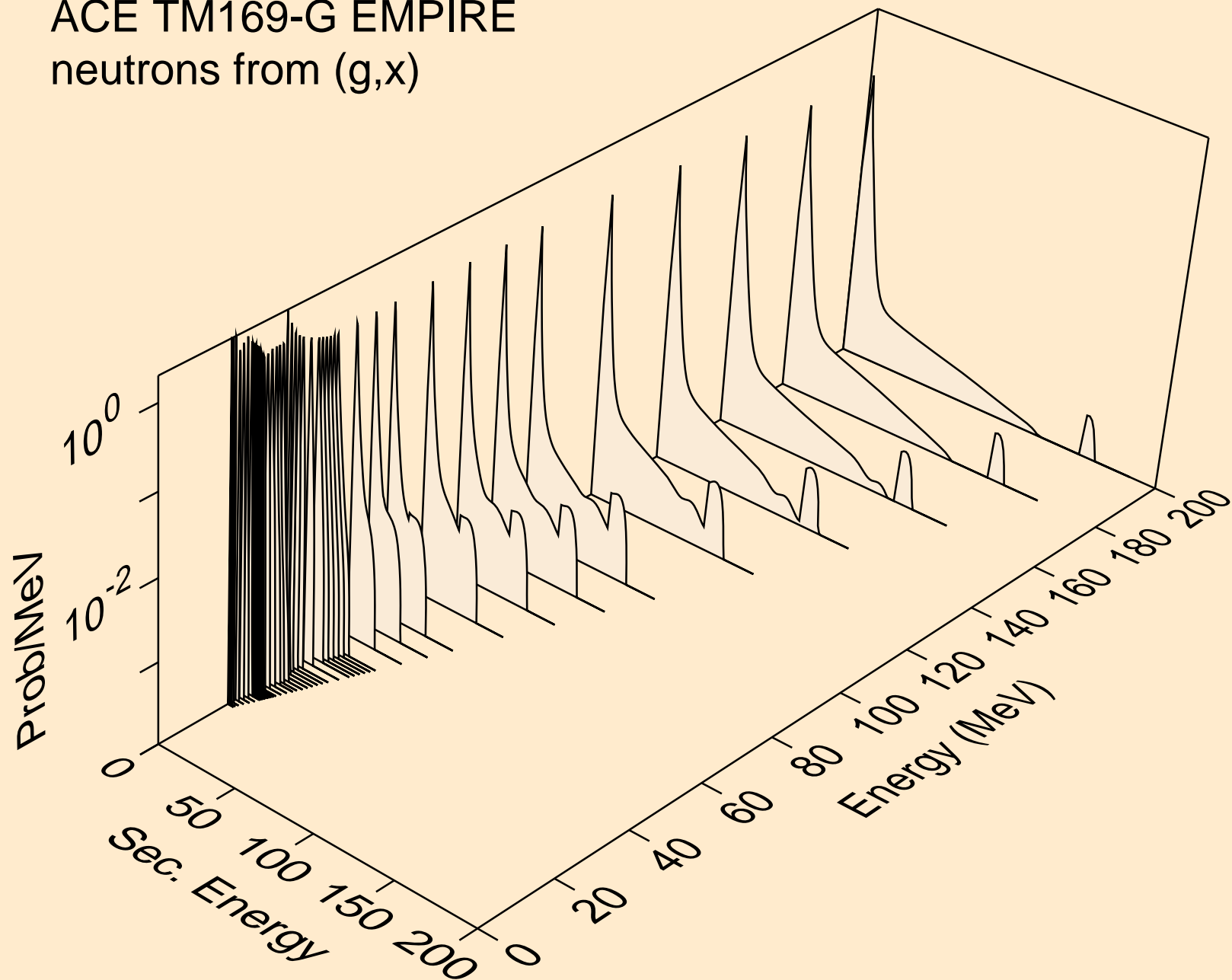
ACE TM169-G EMPIRE

Particle production cross sections

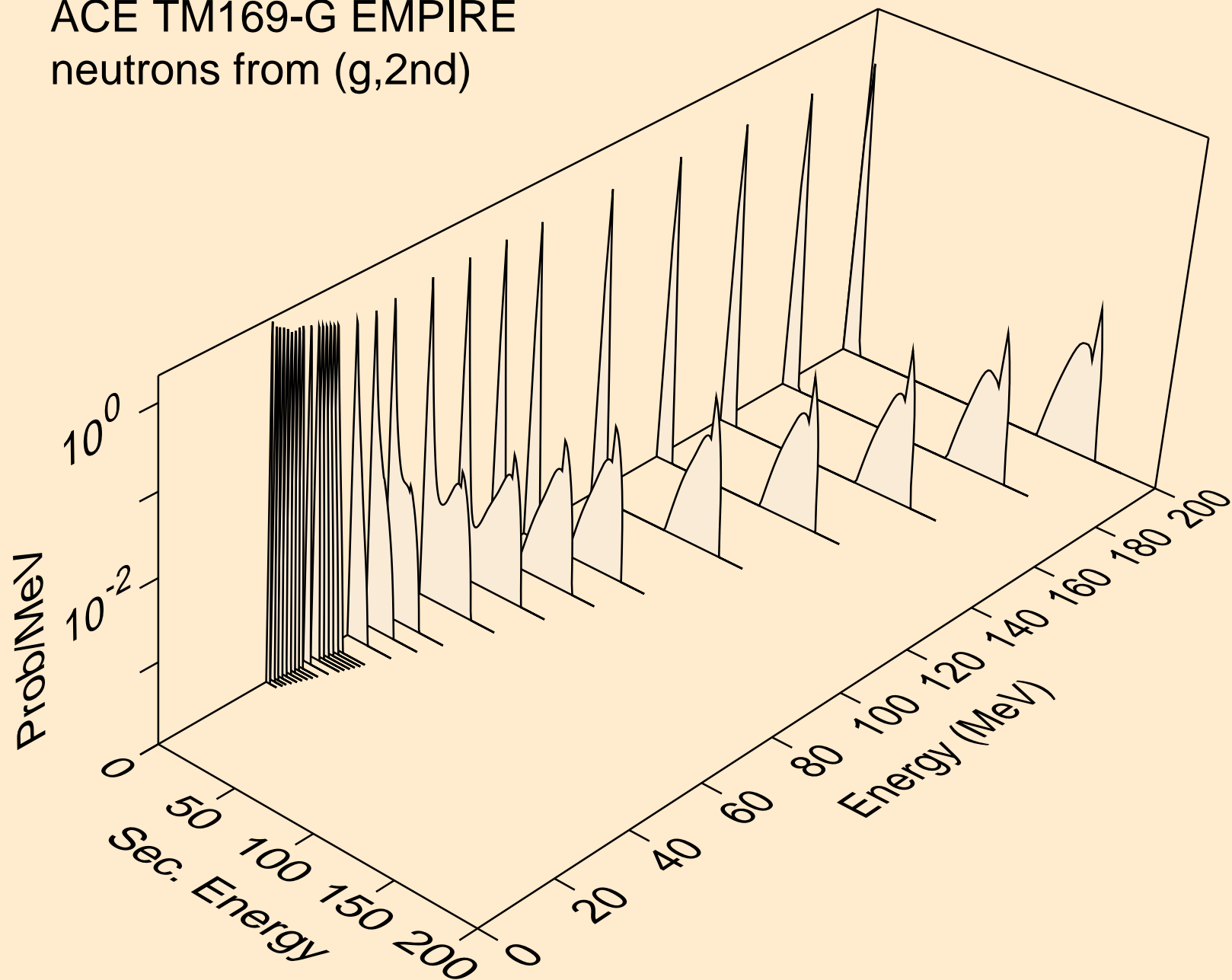


ACE TM169-G EMPIRE

neutrons from (g,x)

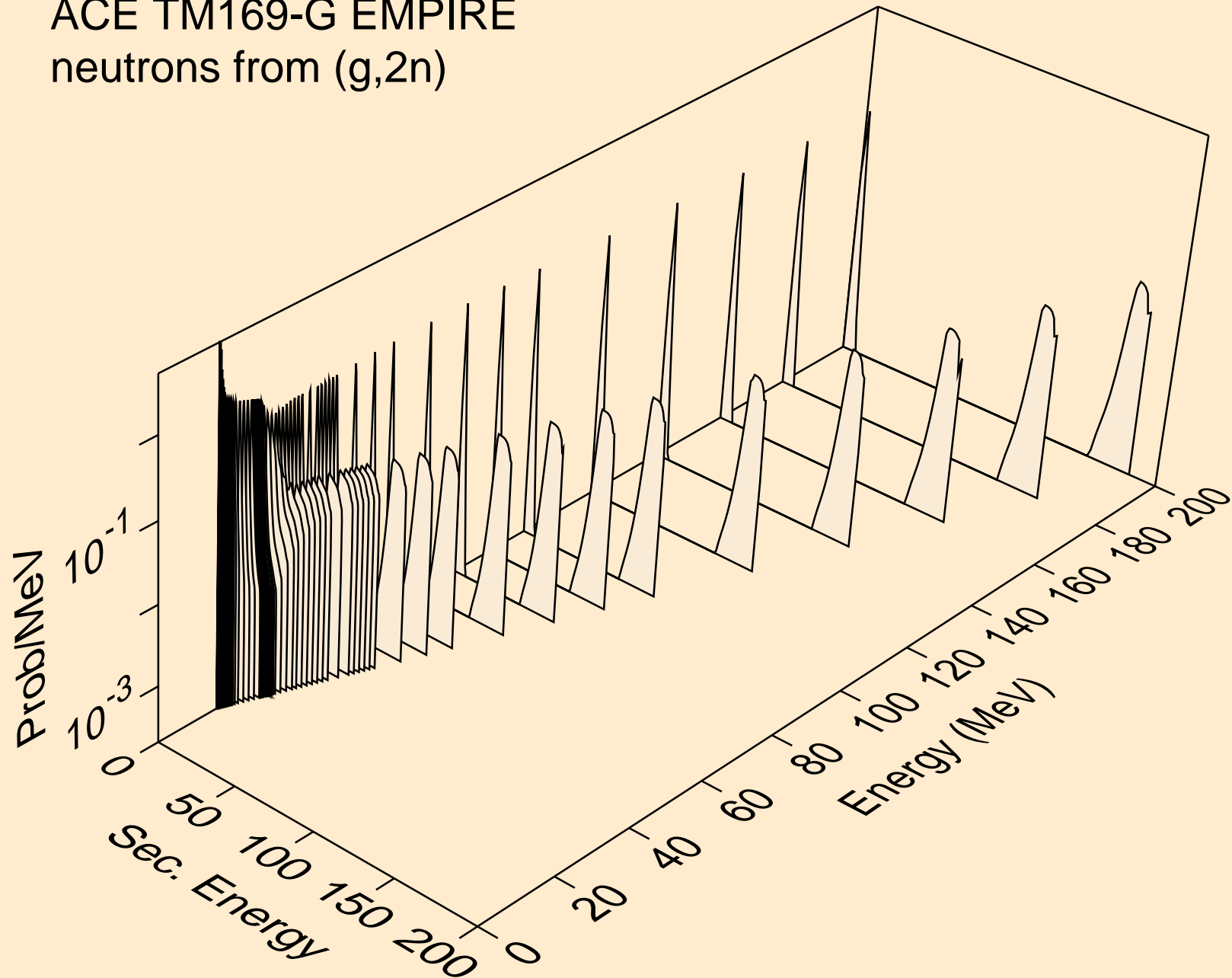


ACE TM169-G EMPIRE
neutrons from (g,2nd)



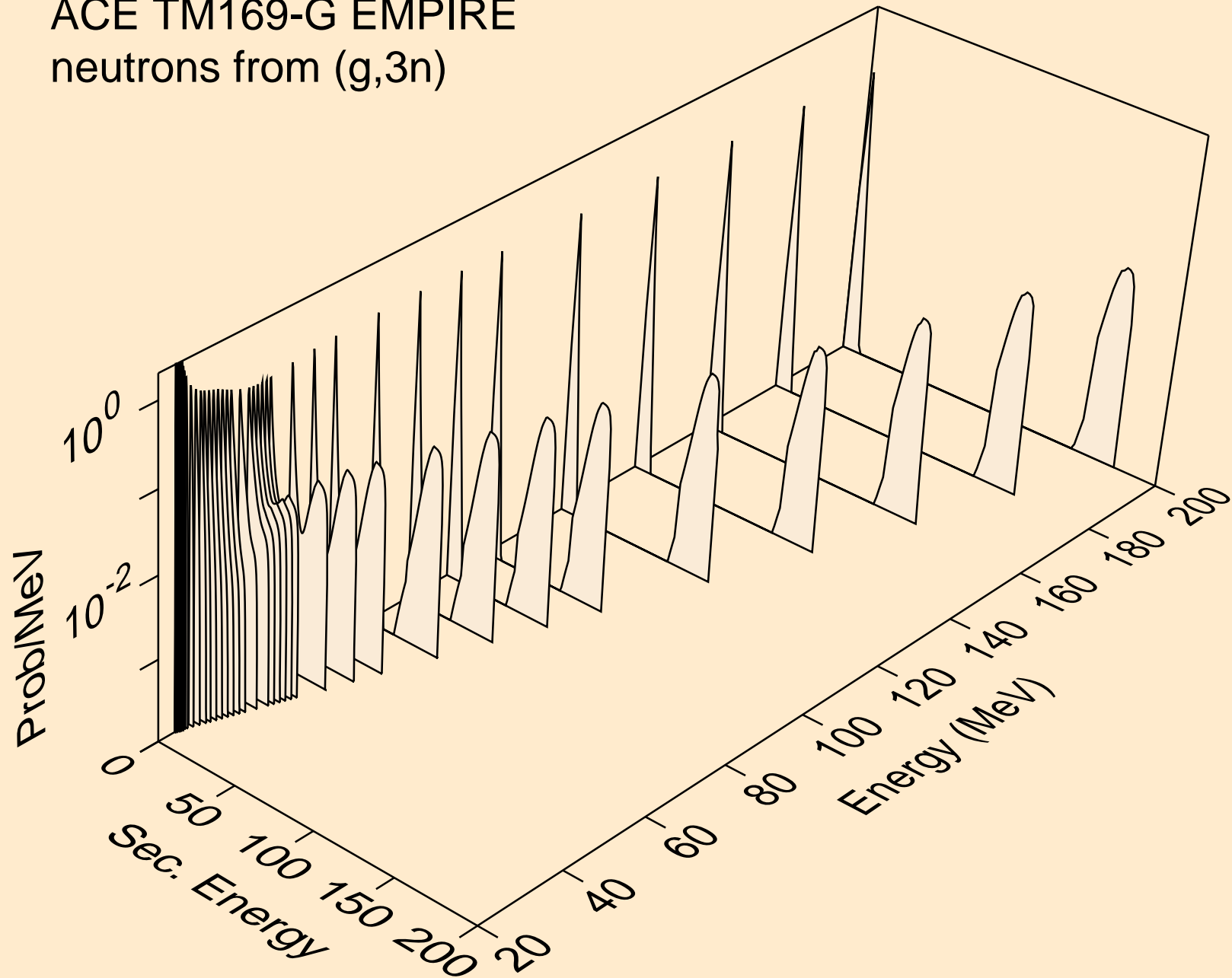
ACE TM169-G EMPIRE

neutrons from (g,2n)

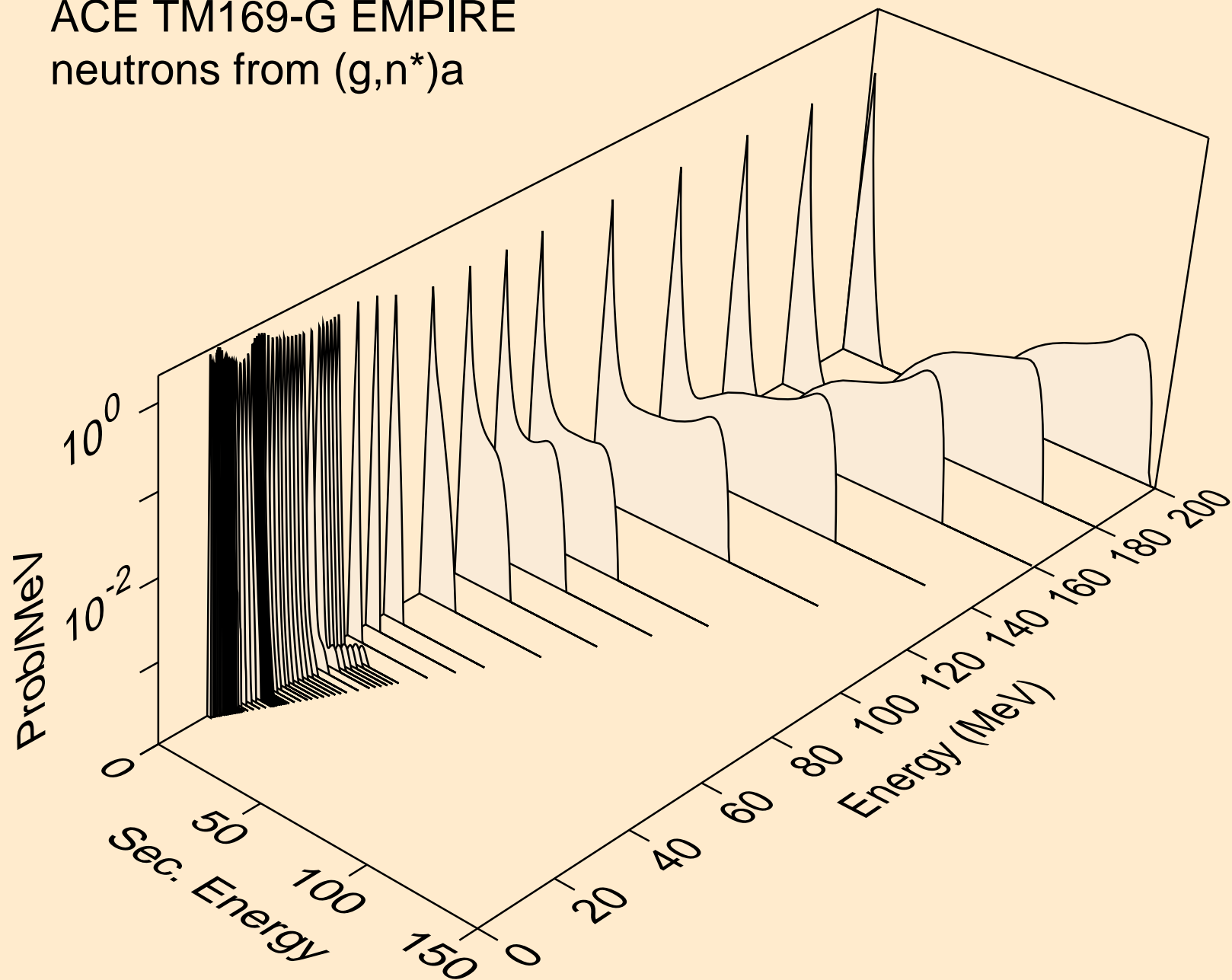


ACE TM169-G EMPIRE

neutrons from (g,3n)

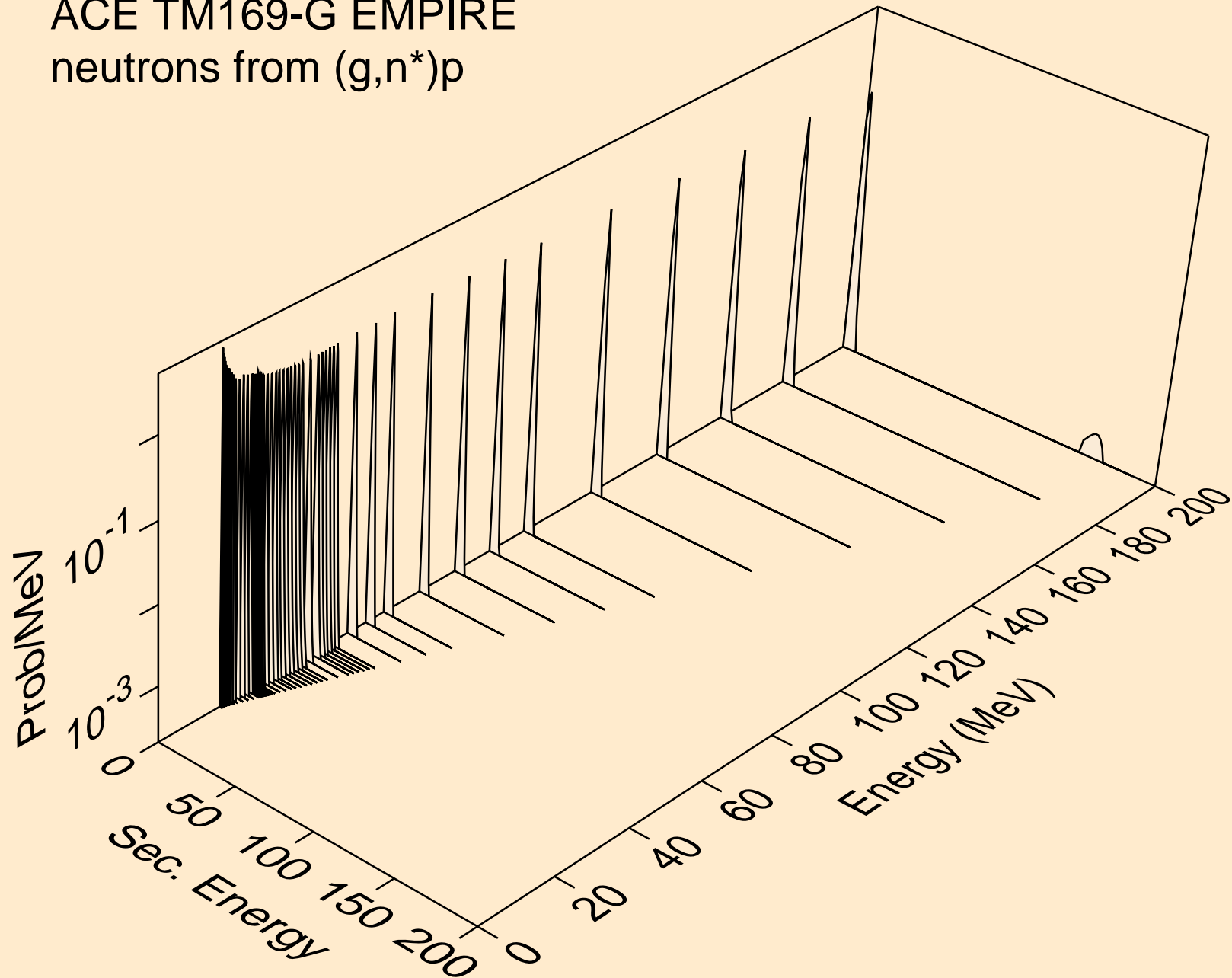


ACE TM169-G EMPIRE
neutrons from $(g,n^*)a$

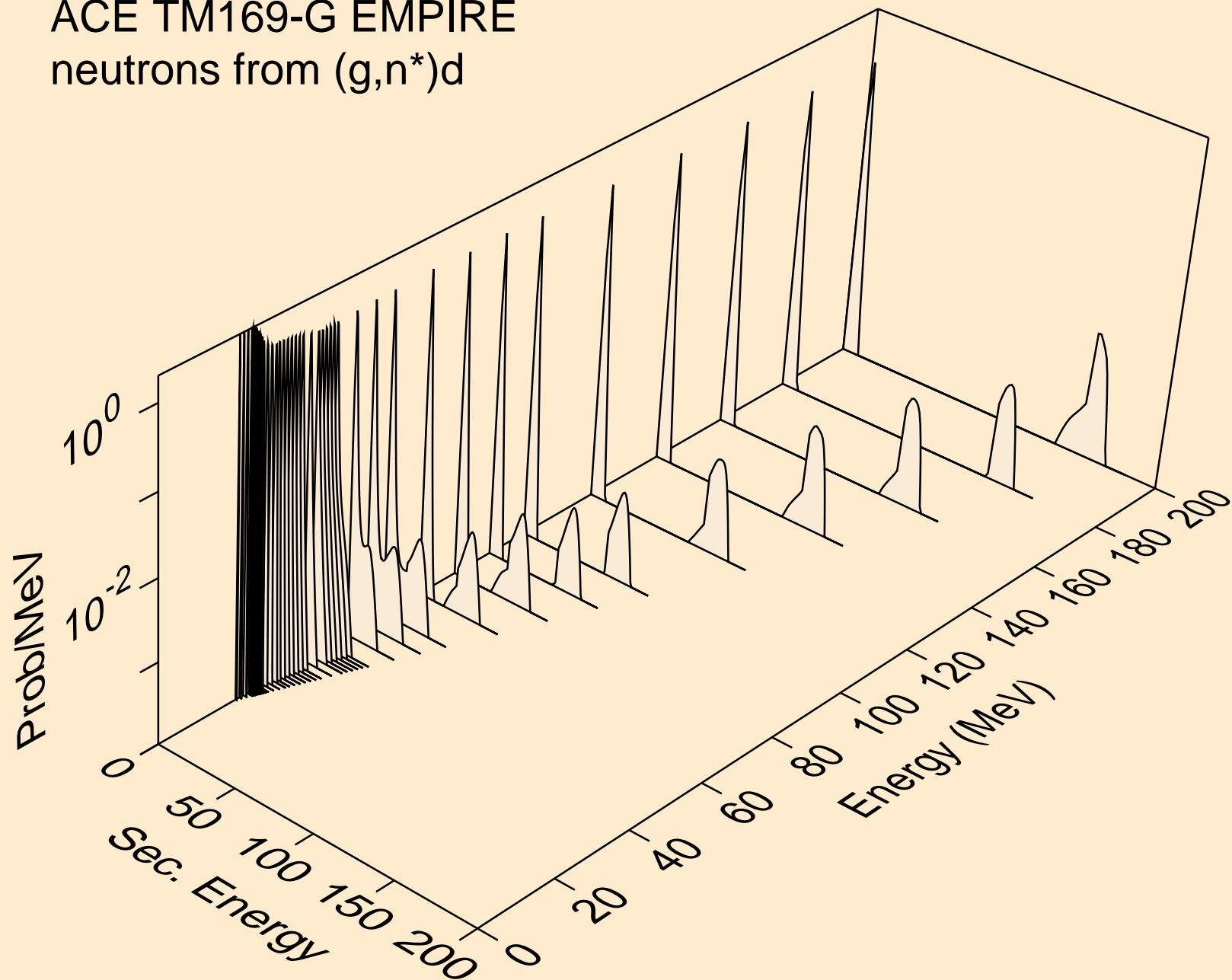


ACE TM169-G EMPIRE

neutrons from $(g,n^*)p$

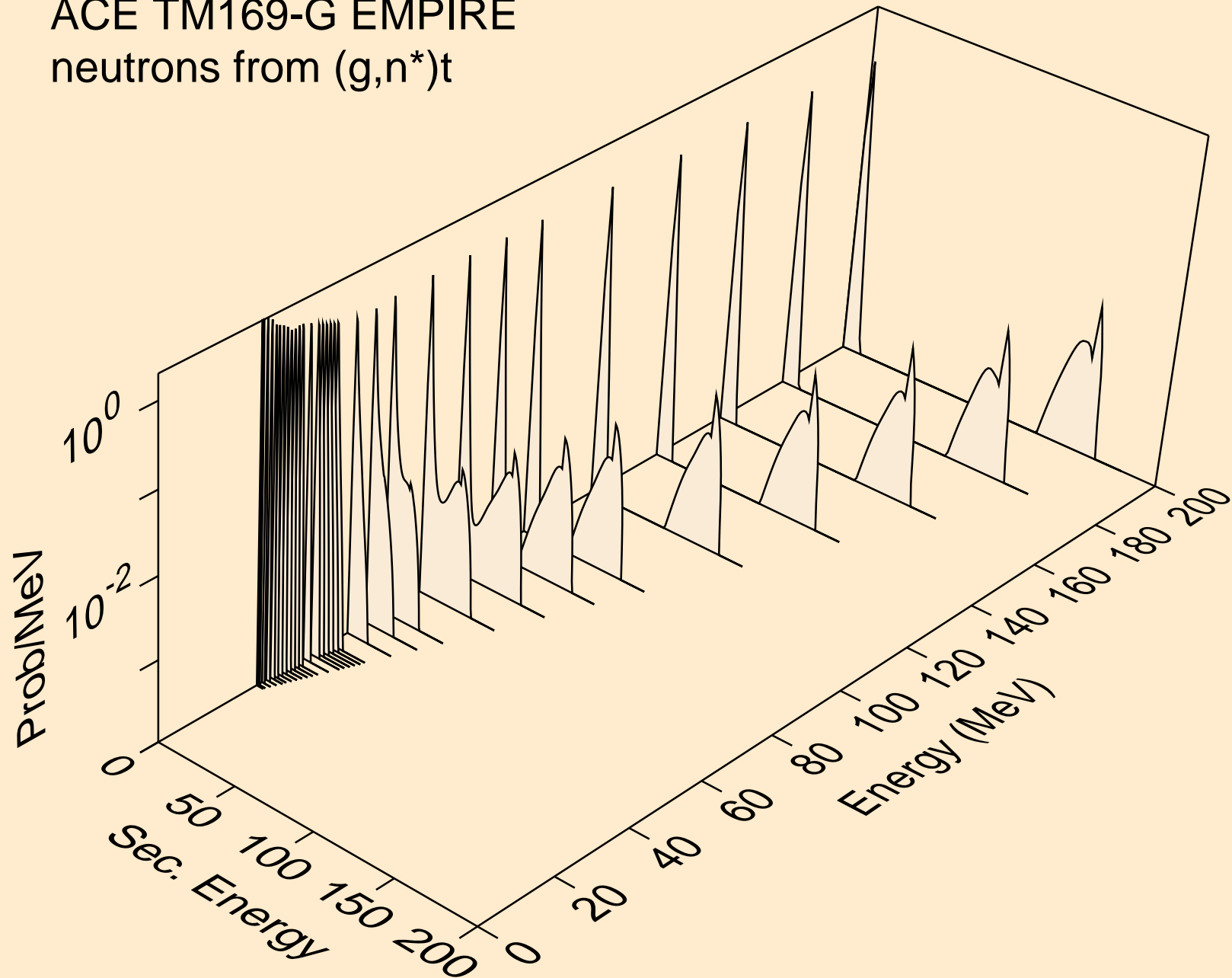


ACE TM169-G EMPIRE
neutrons from $(g,n^*)d$

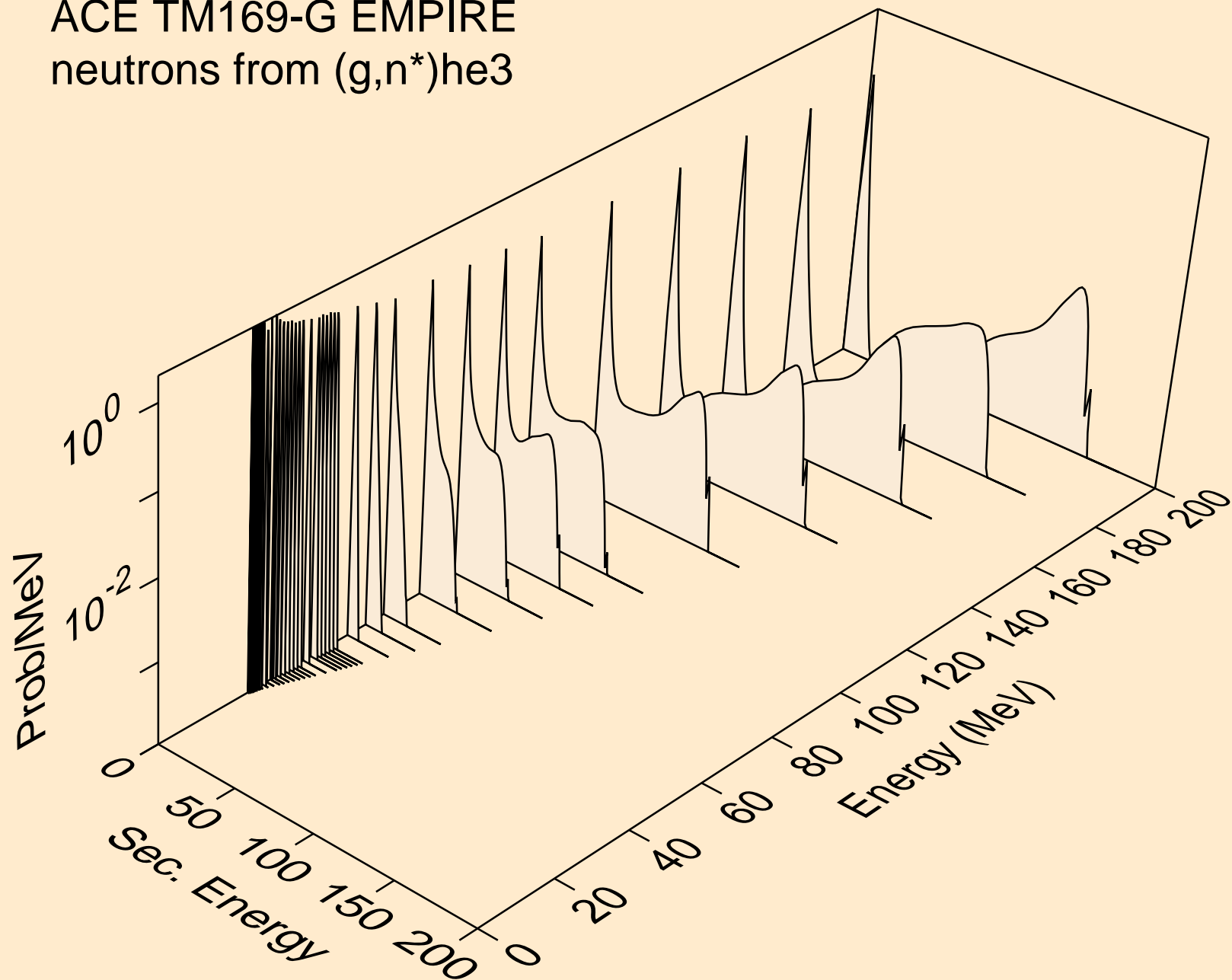


ACE TM169-G EMPIRE

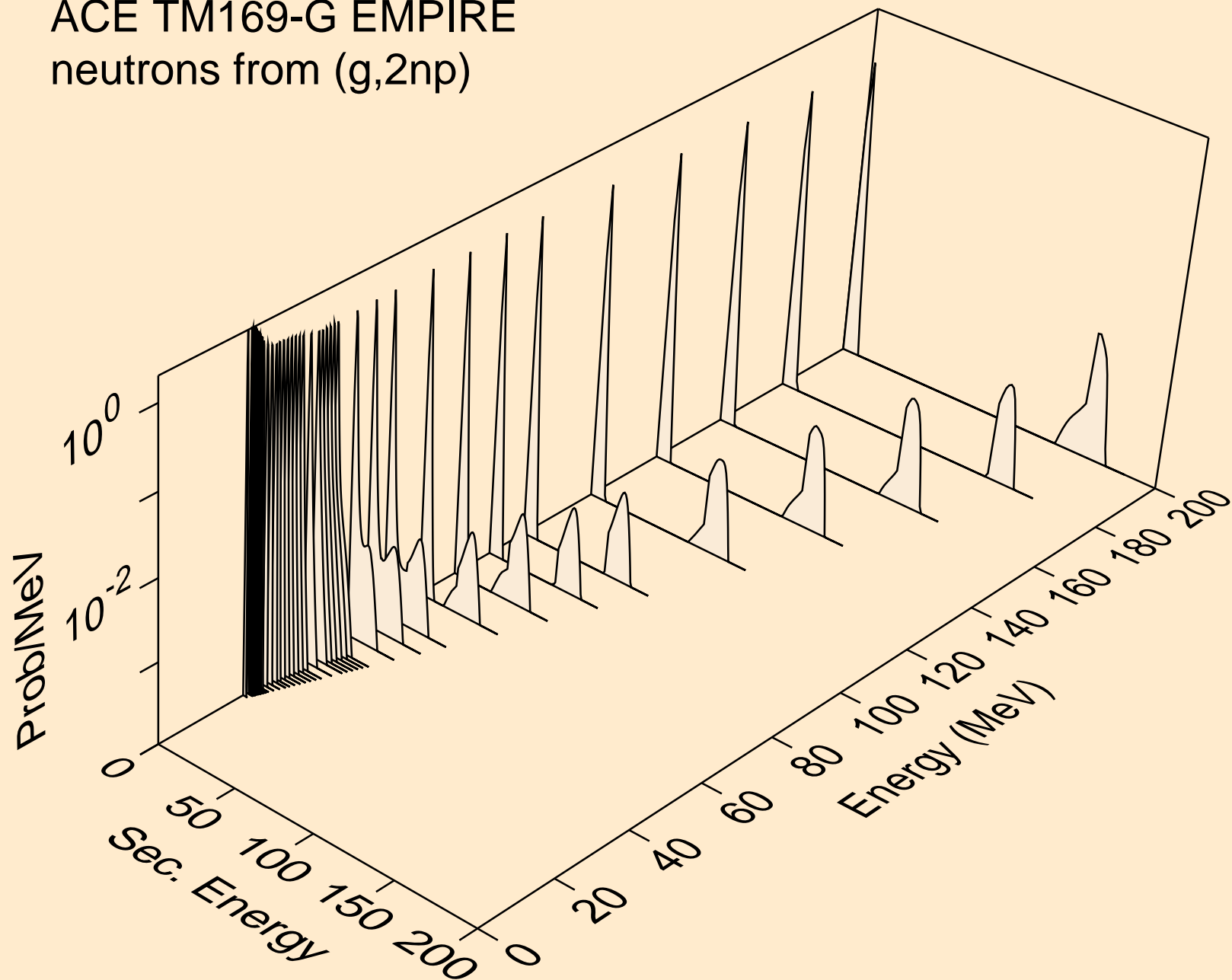
neutrons from $(g,n^*)t$



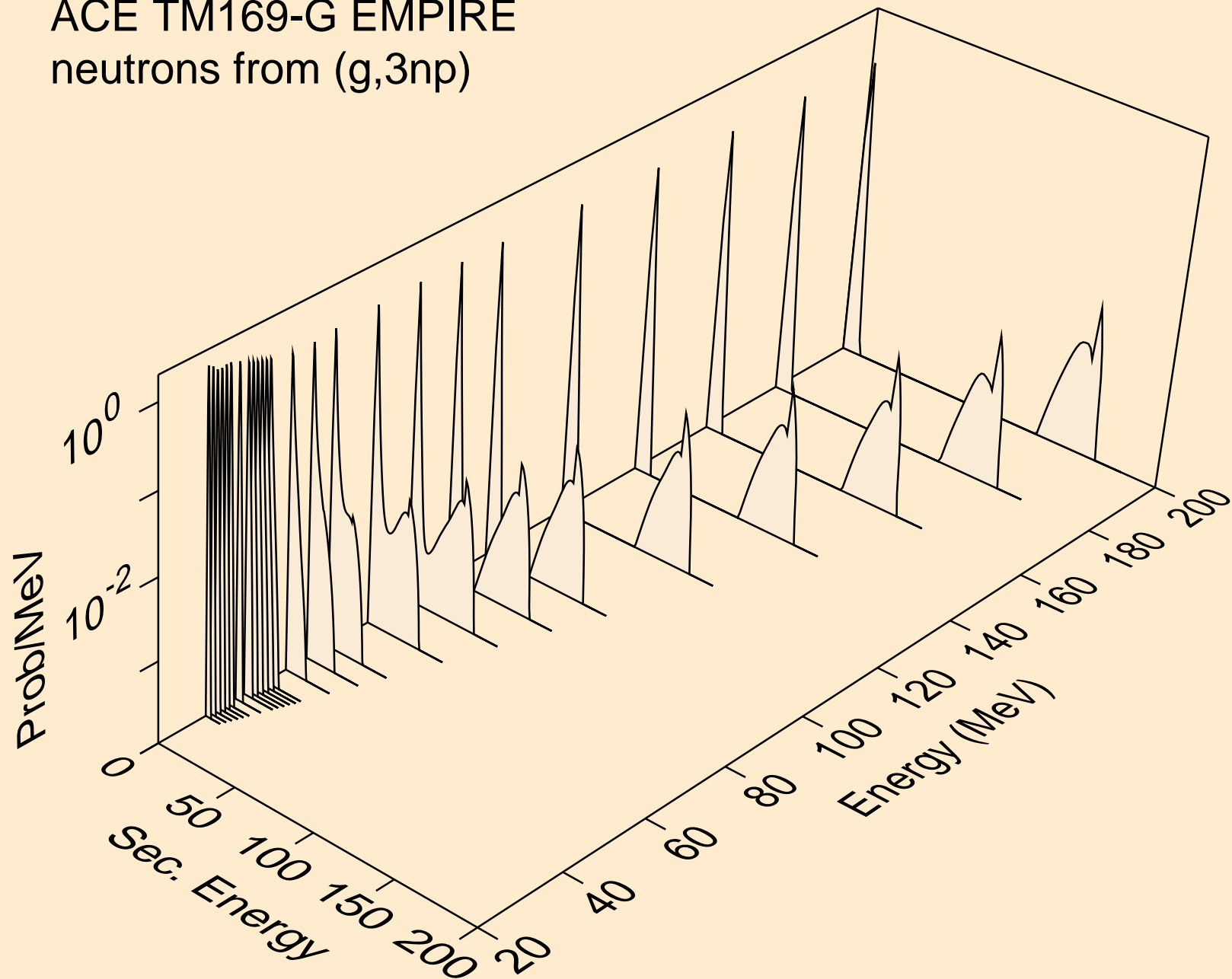
ACE TM169-G EMPIRE
neutrons from $(g,n^*)\text{he3}$



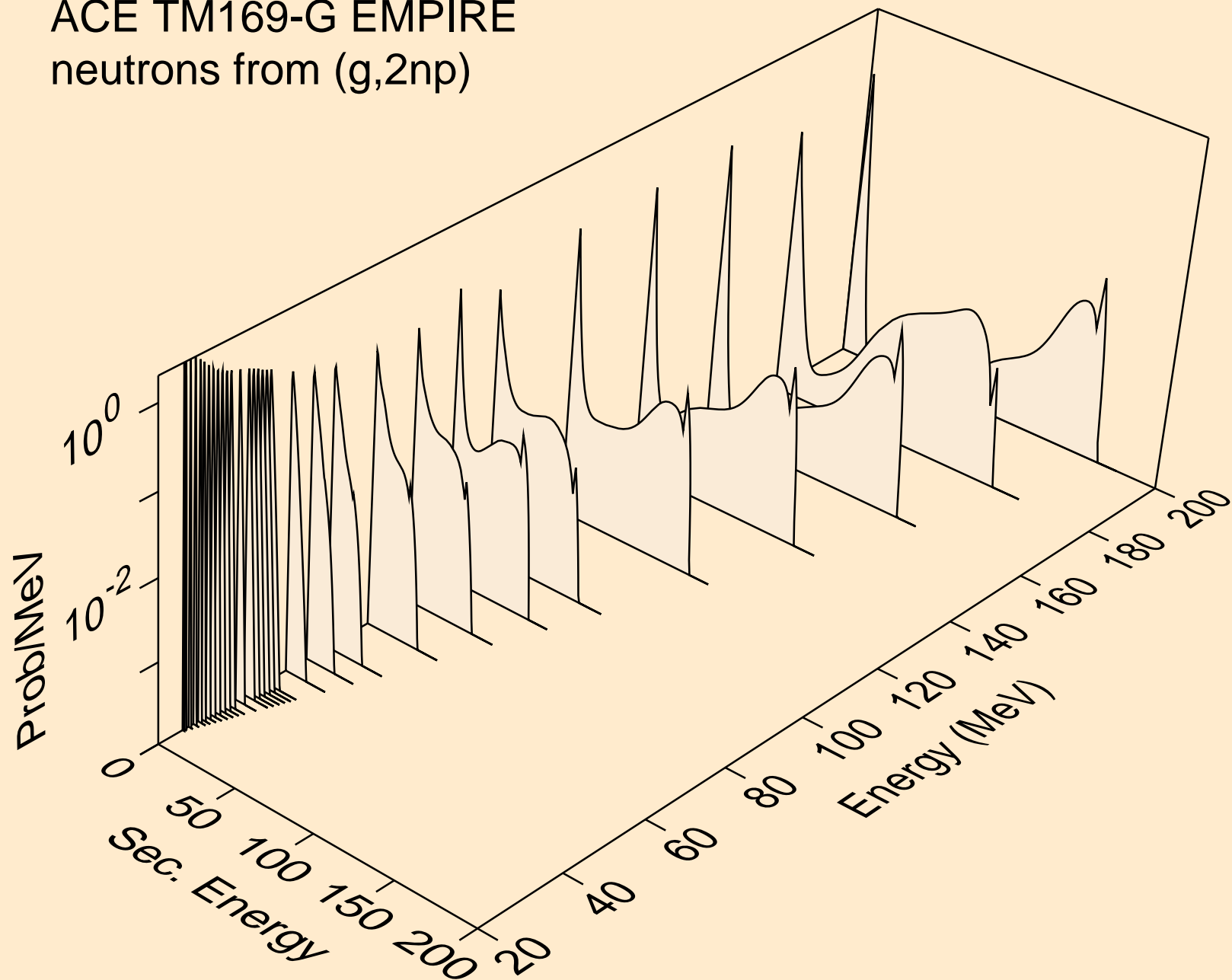
ACE TM169-G EMPIRE
neutrons from (g,2np)



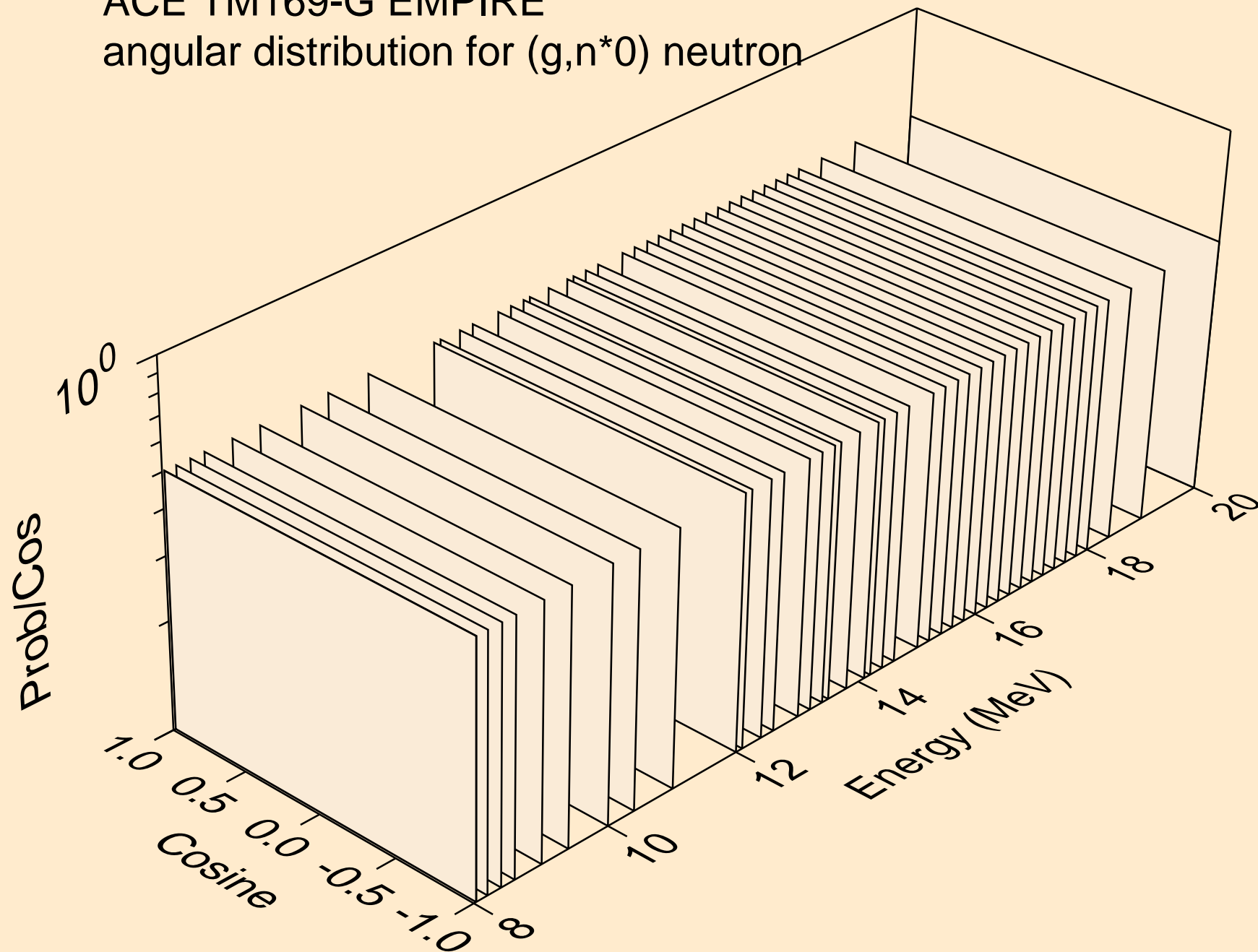
ACE TM169-G EMPIRE
neutrons from (g,3np)



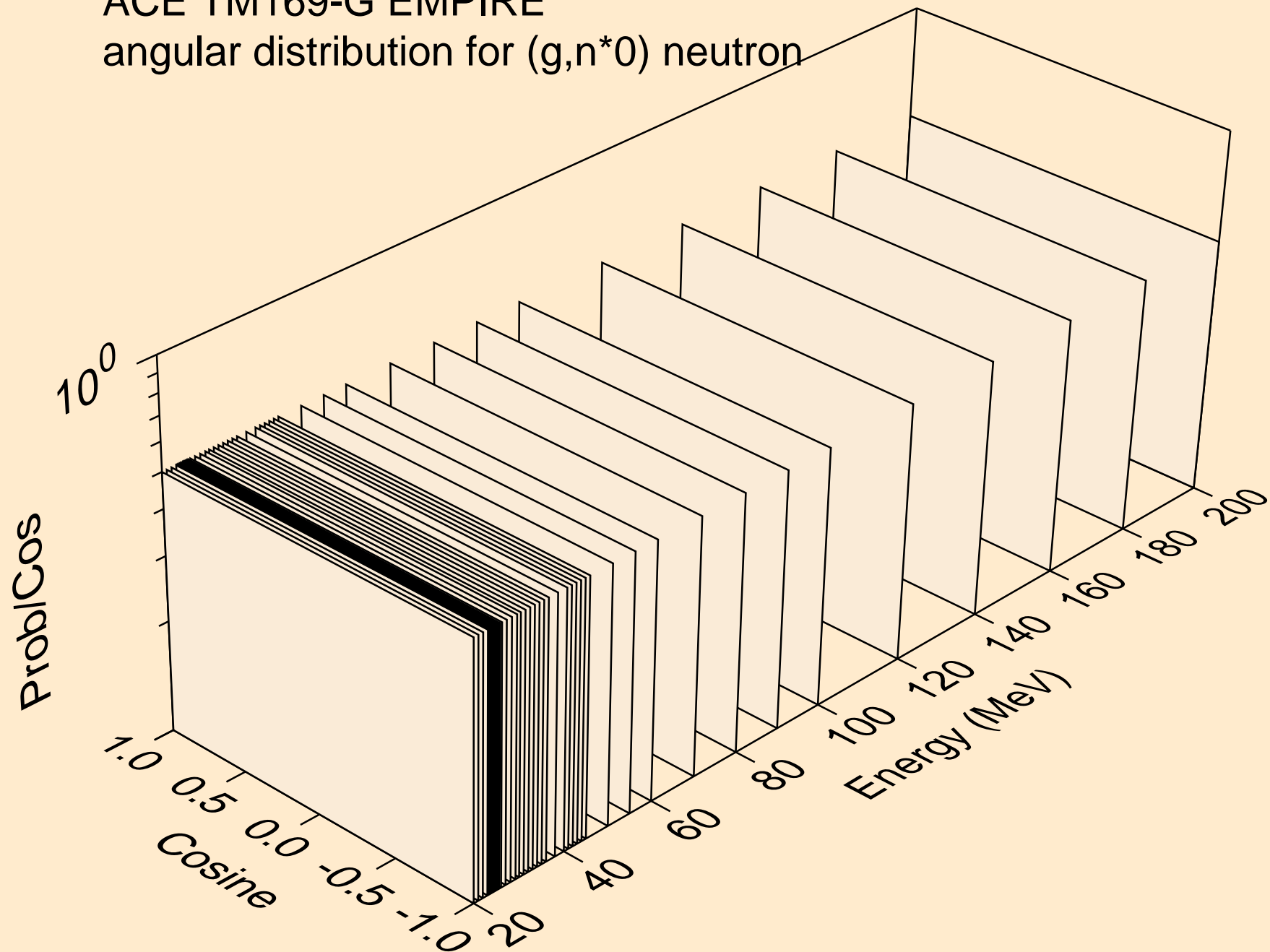
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neutrons from (g,2np)



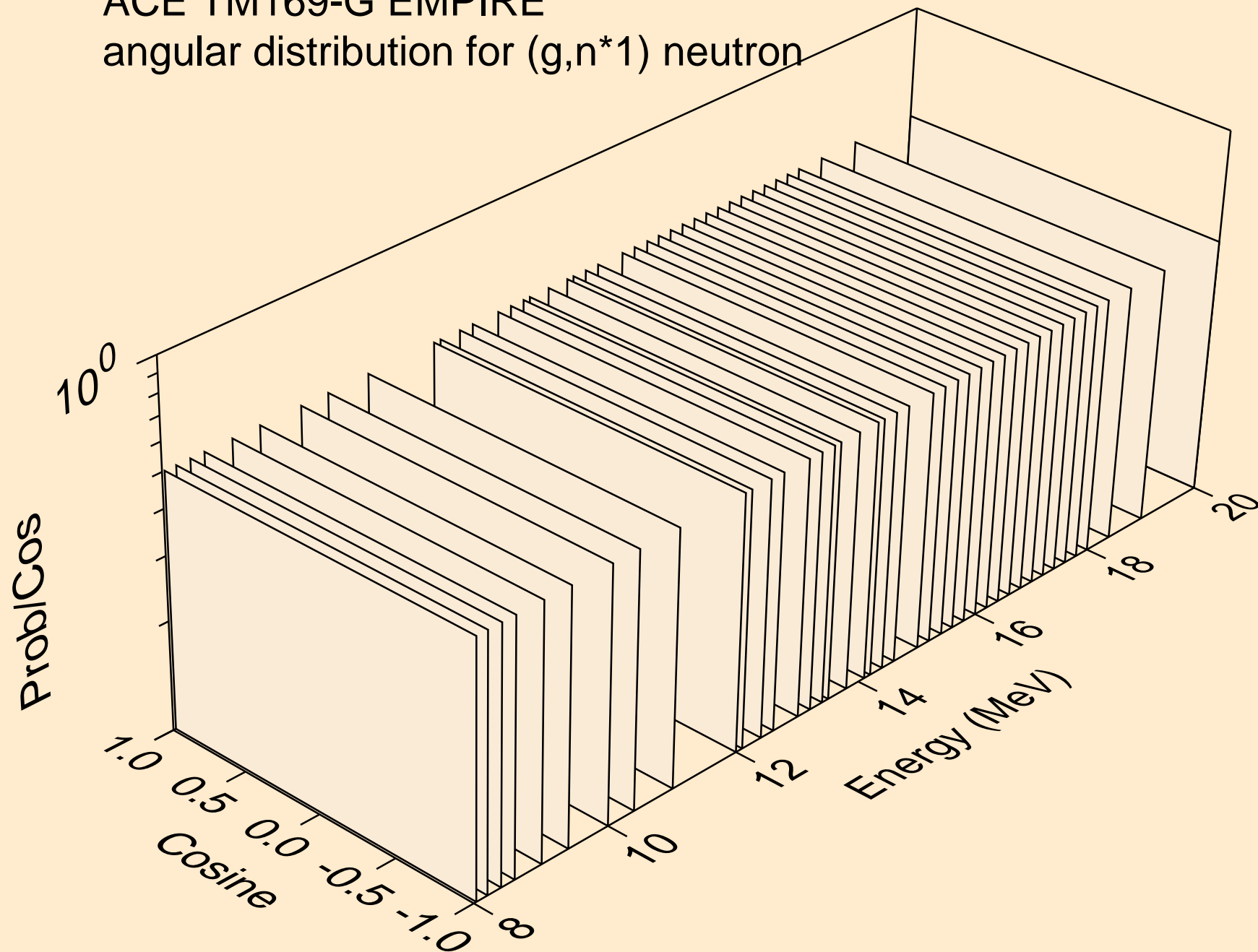
ACE TM169-G EMPIRE
angular distribution for (g,n*0) neutron



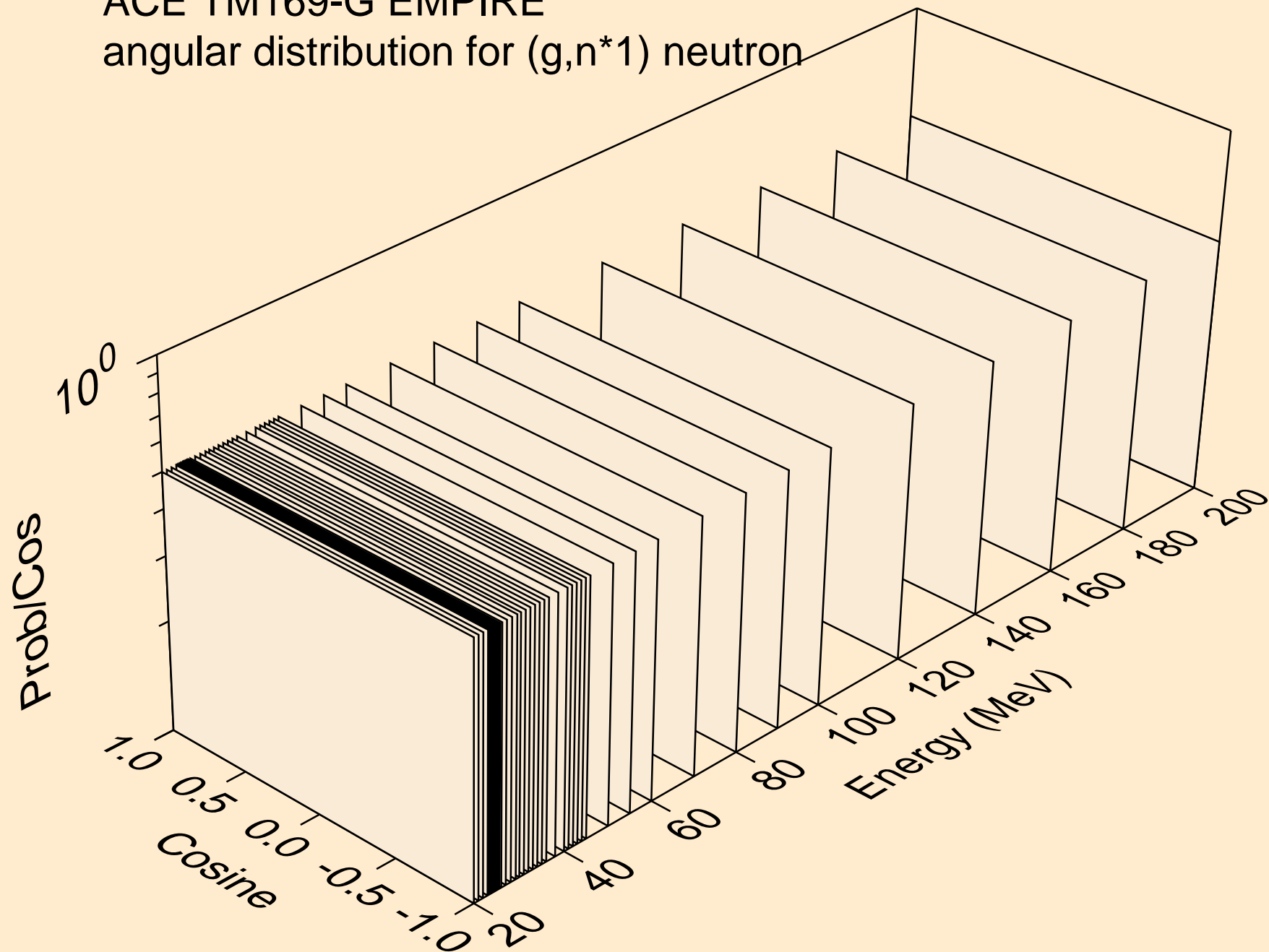
ACE TM169-G EMPIRE
angular distribution for (g,n*0) neutron



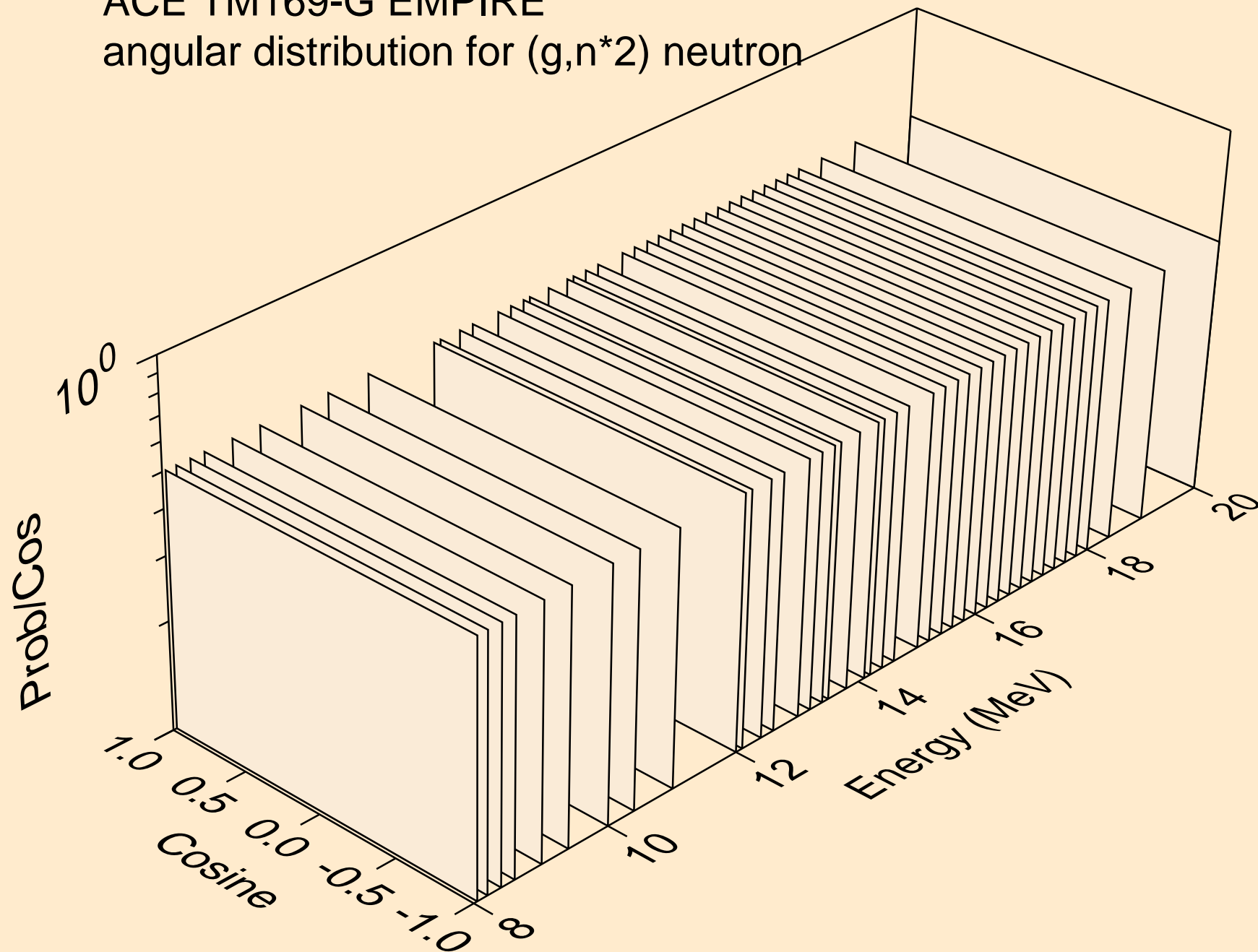
ACE TM169-G EMPIRE
angular distribution for (g,n*1) neutron



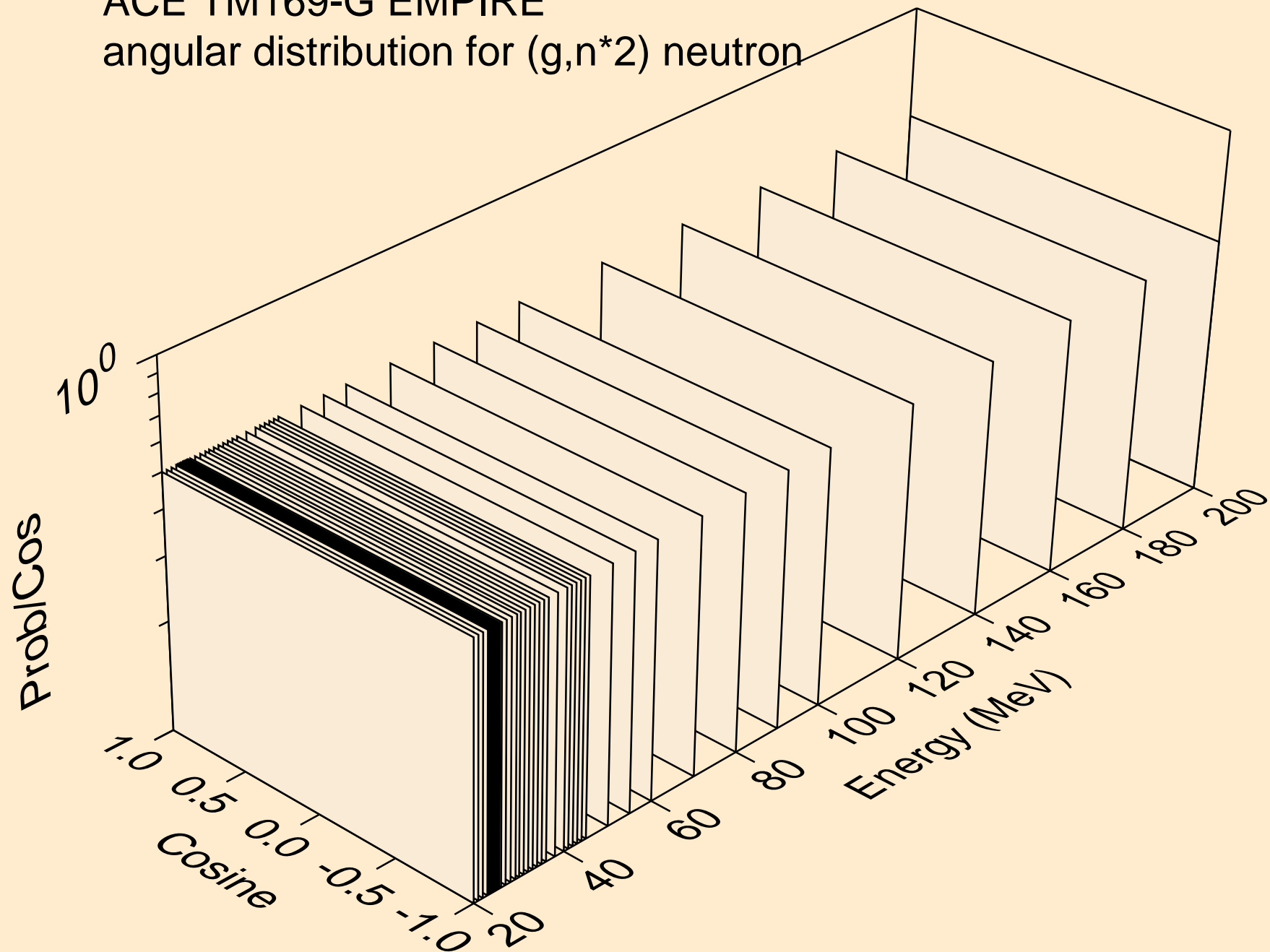
ACE TM169-G EMPIRE
angular distribution for (g,n*1) neutron



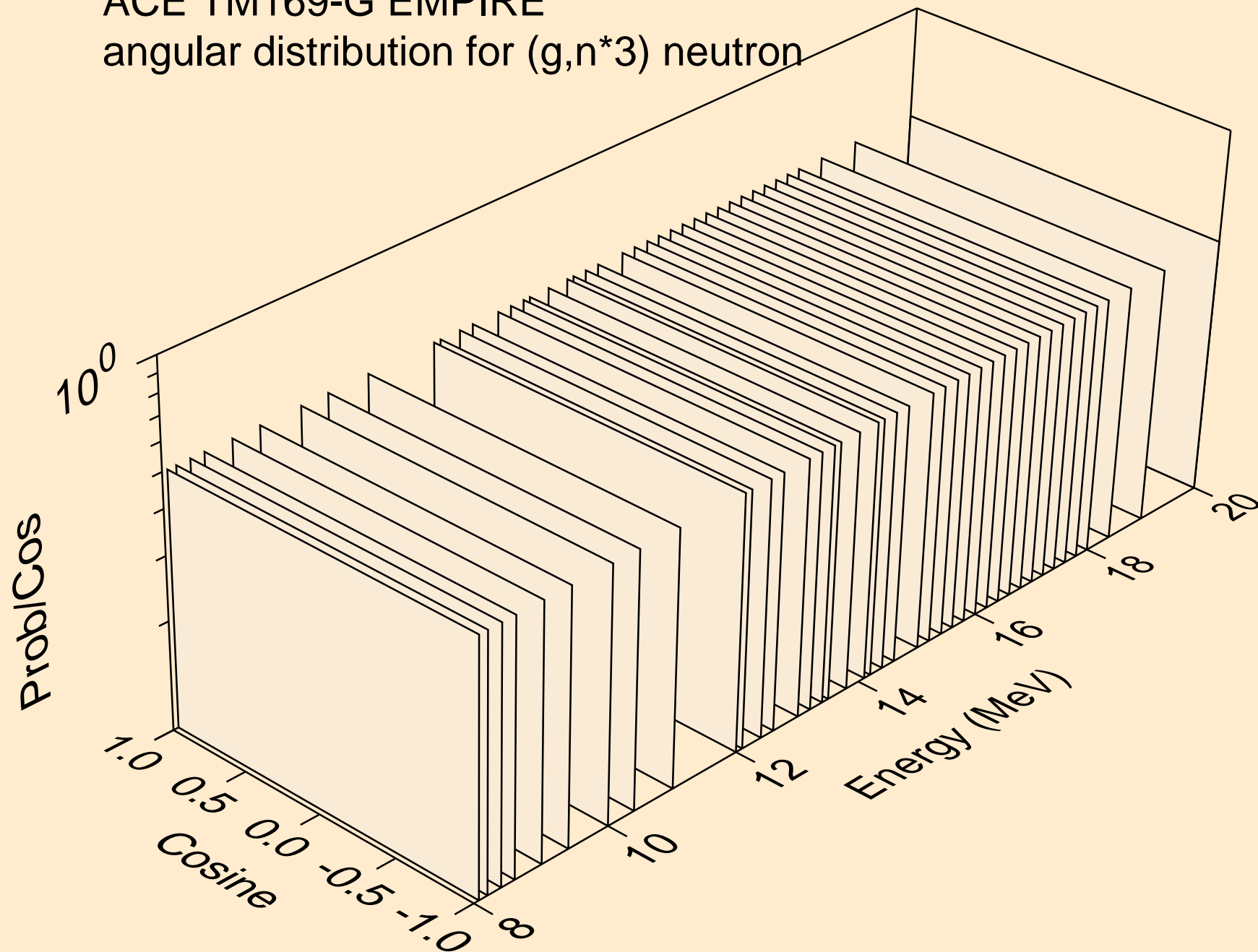
ACE TM169-G EMPIRE
angular distribution for (g,n*2) neutron



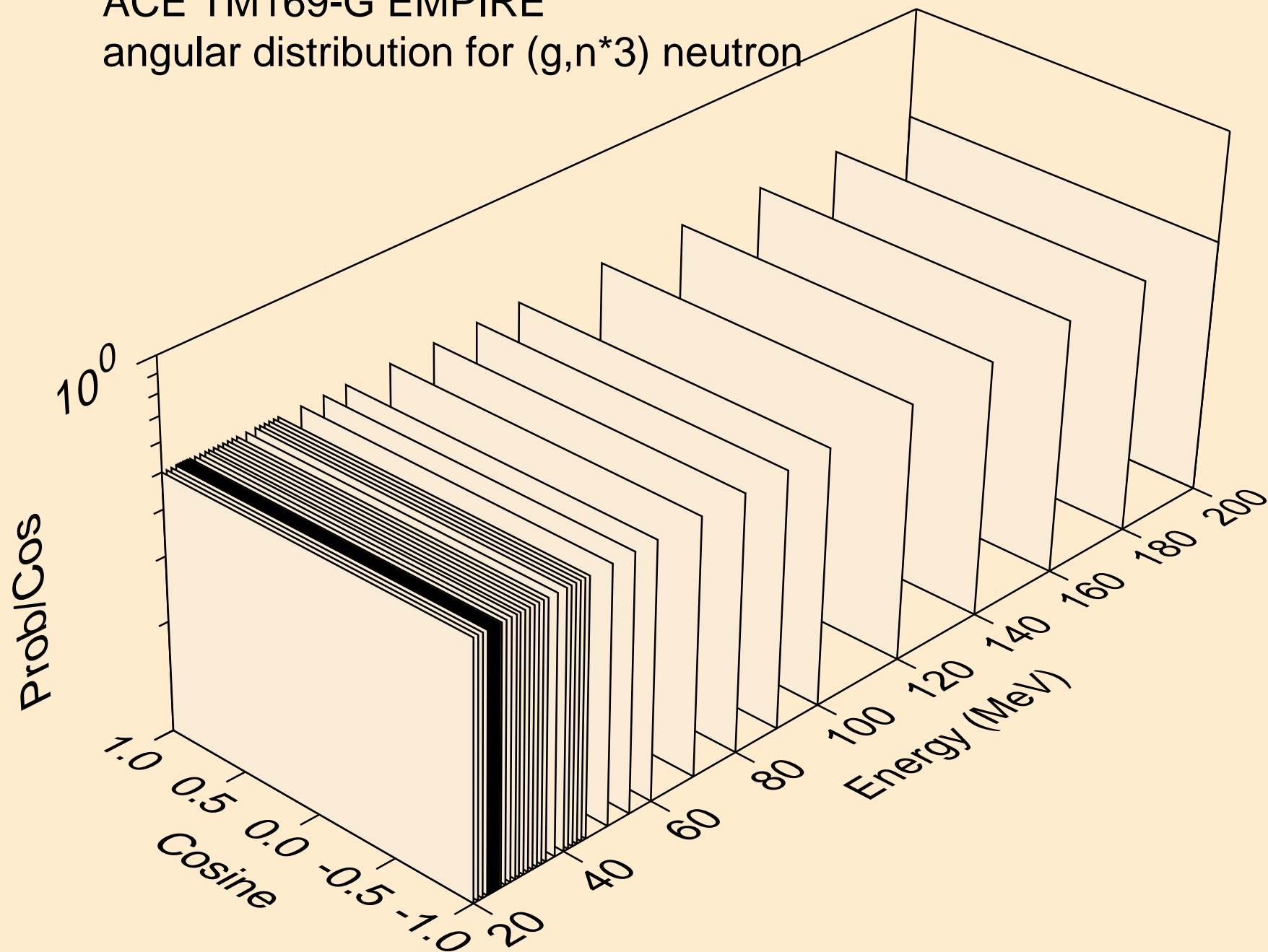
ACE TM169-G EMPIRE
angular distribution for (g,n*2) neutron



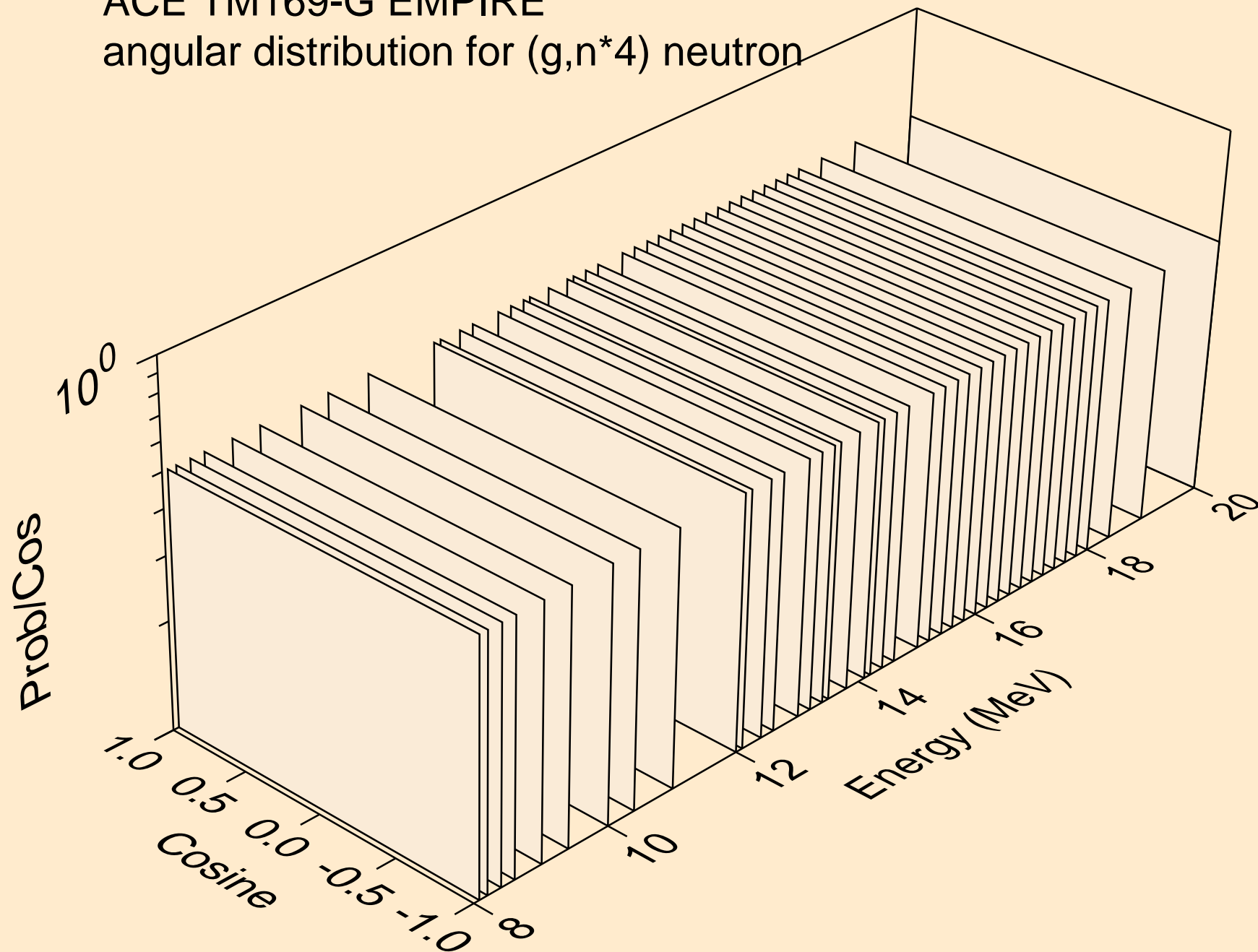
ACE TM169-G EMPIRE
angular distribution for (g,n*3) neutron



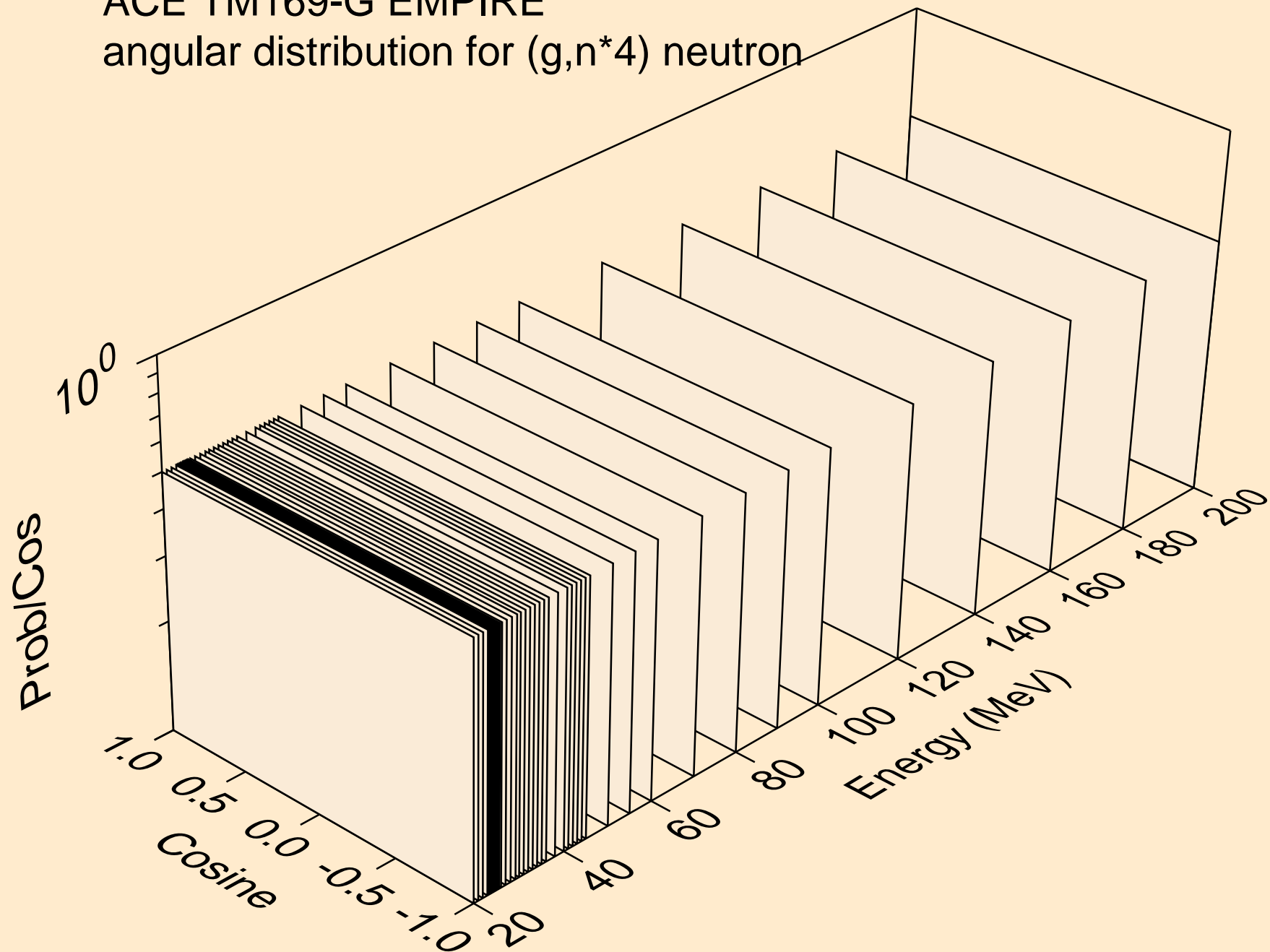
ACE TM169-G EMPIRE
angular distribution for (g,n*3) neutron



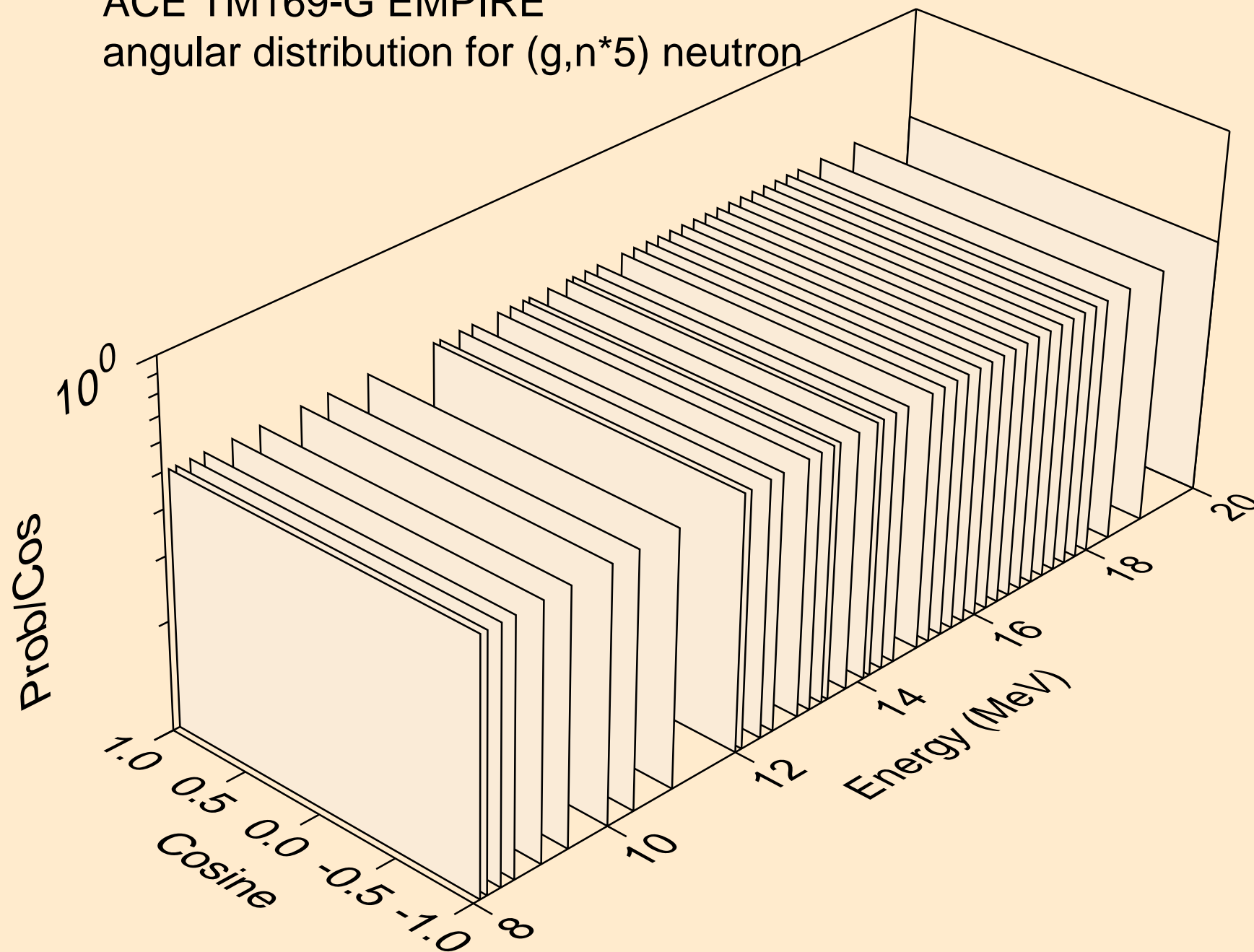
ACE TM169-G EMPIRE
angular distribution for (g,n*4) neutron



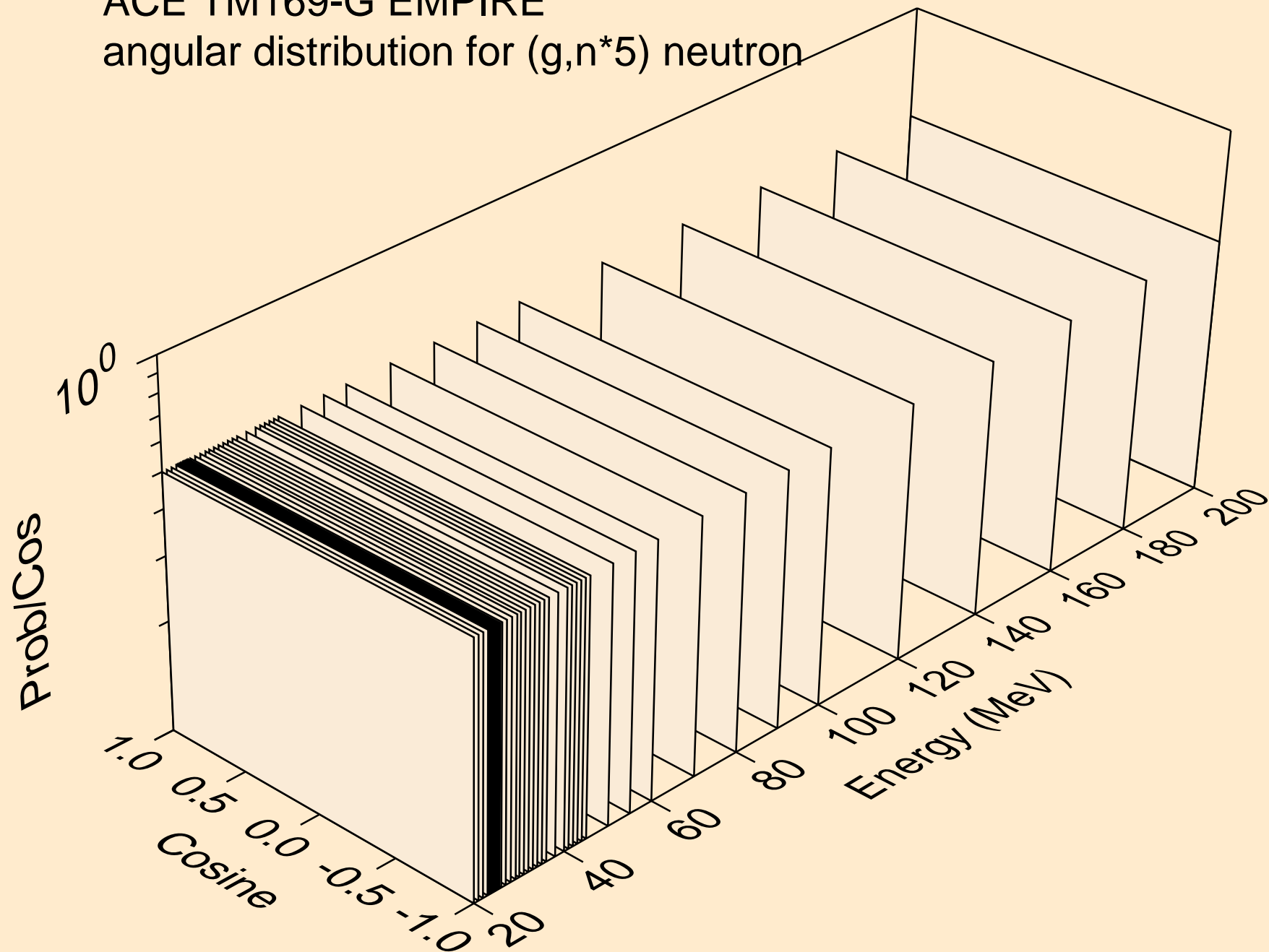
ACE TM169-G EMPIRE
angular distribution for (g,n*4) neutron



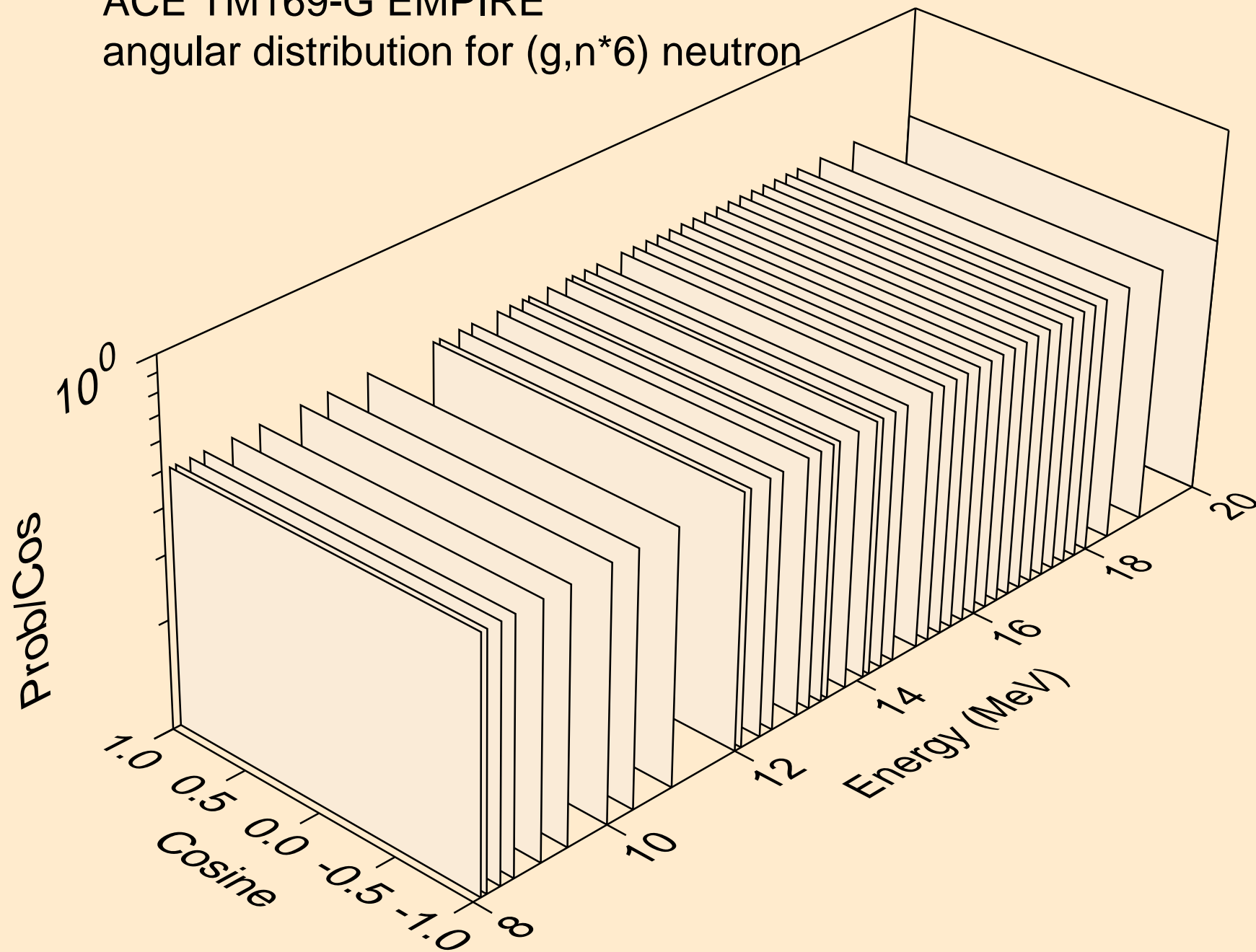
ACE TM169-G EMPIRE
angular distribution for (g,n*5) neutron



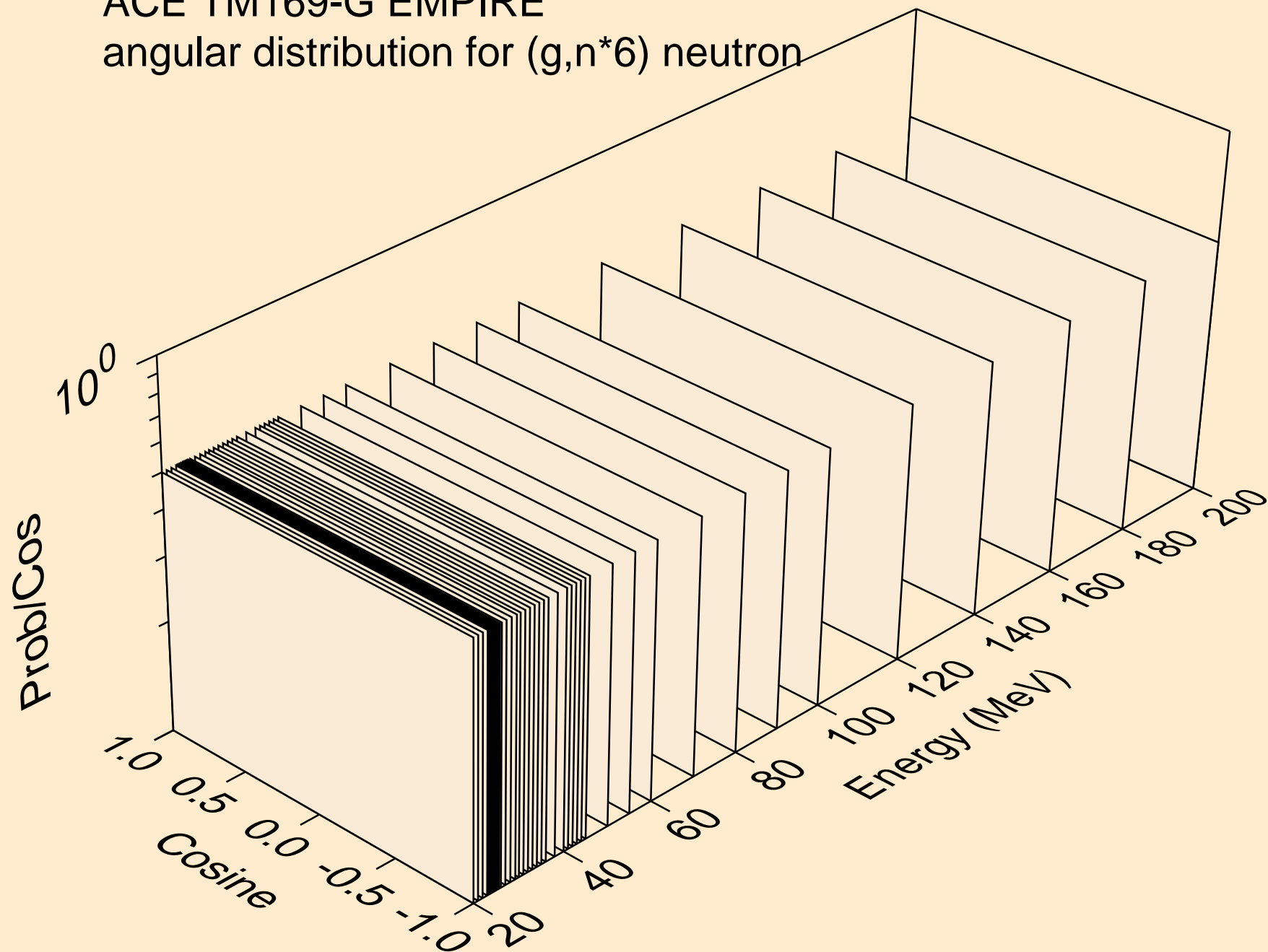
ACE TM169-G EMPIRE
angular distribution for (g,n*5) neutron



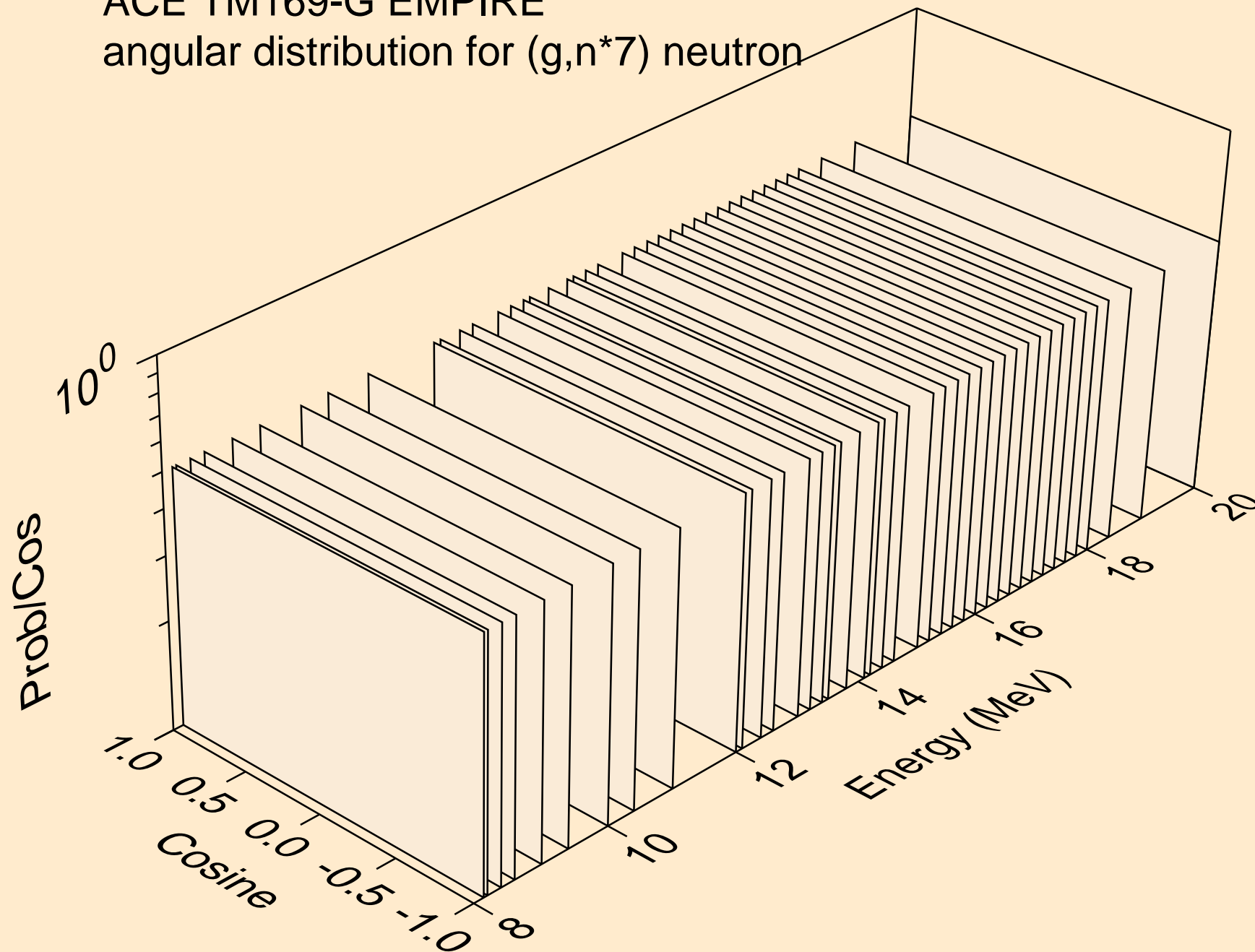
ACE TM169-G EMPIRE
angular distribution for (g,n*6) neutron



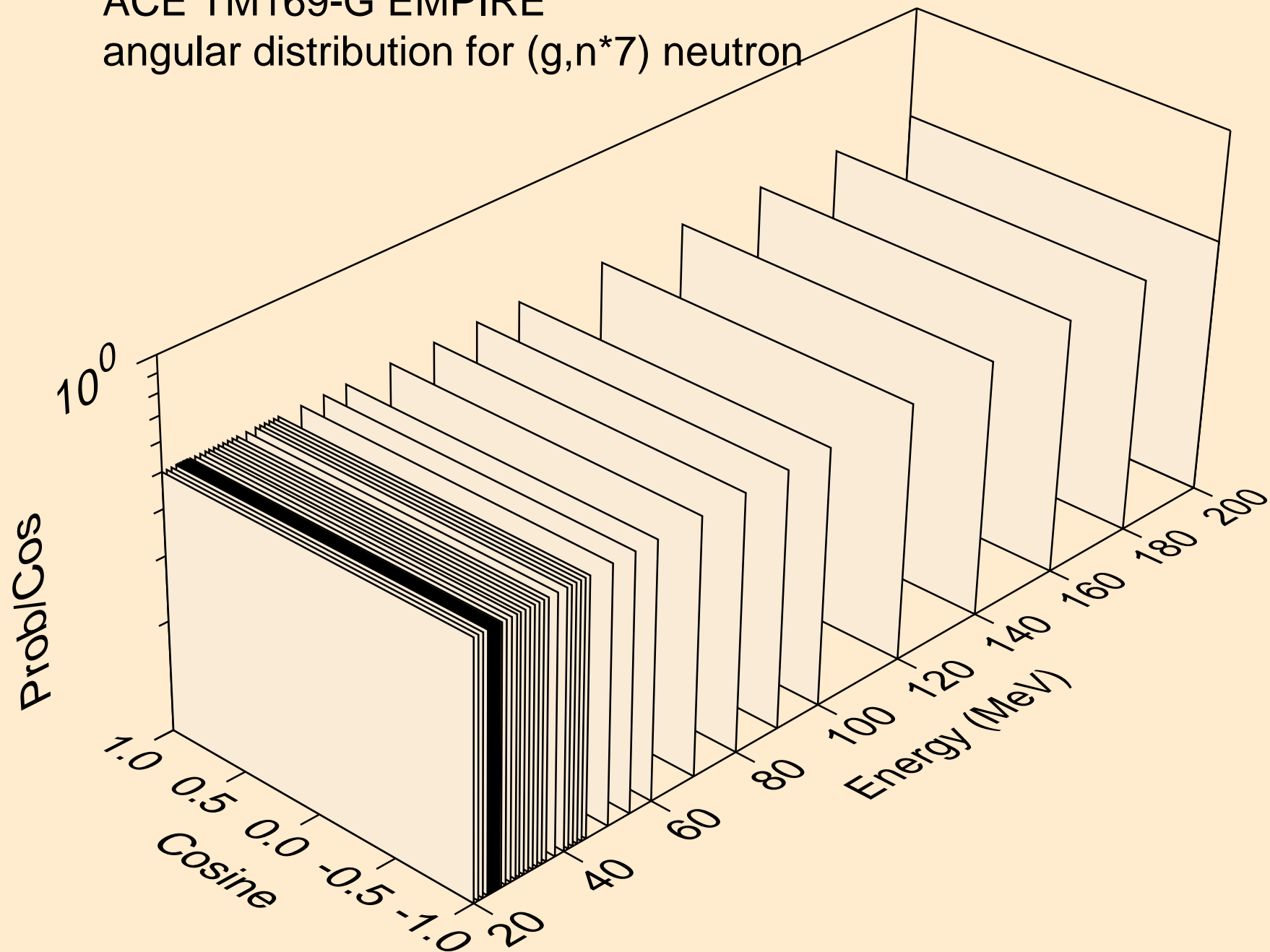
ACE TM169-G EMPIRE
angular distribution for (g,n*6) neutron



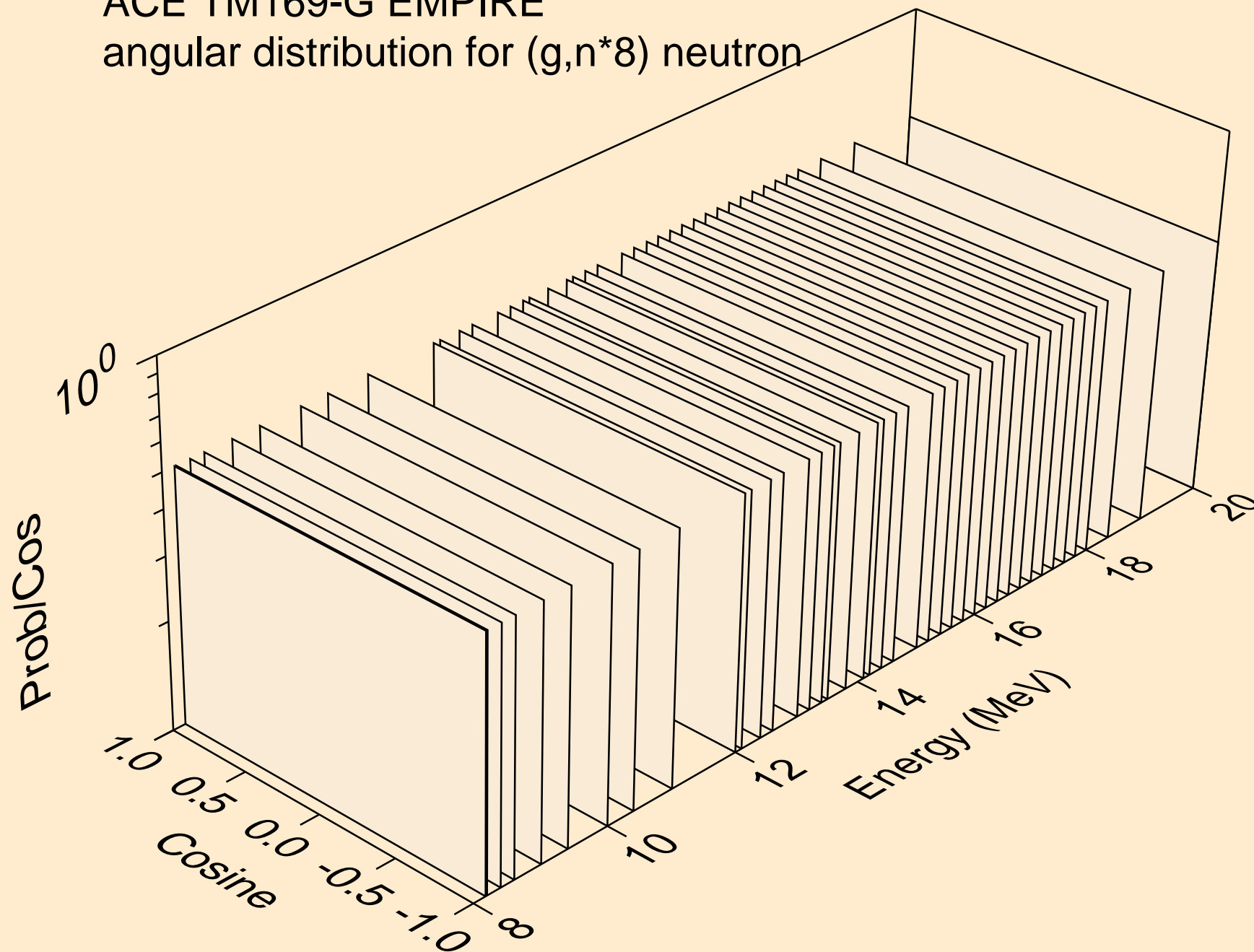
ACE TM169-G EMPIRE
angular distribution for (g,n*7) neutron



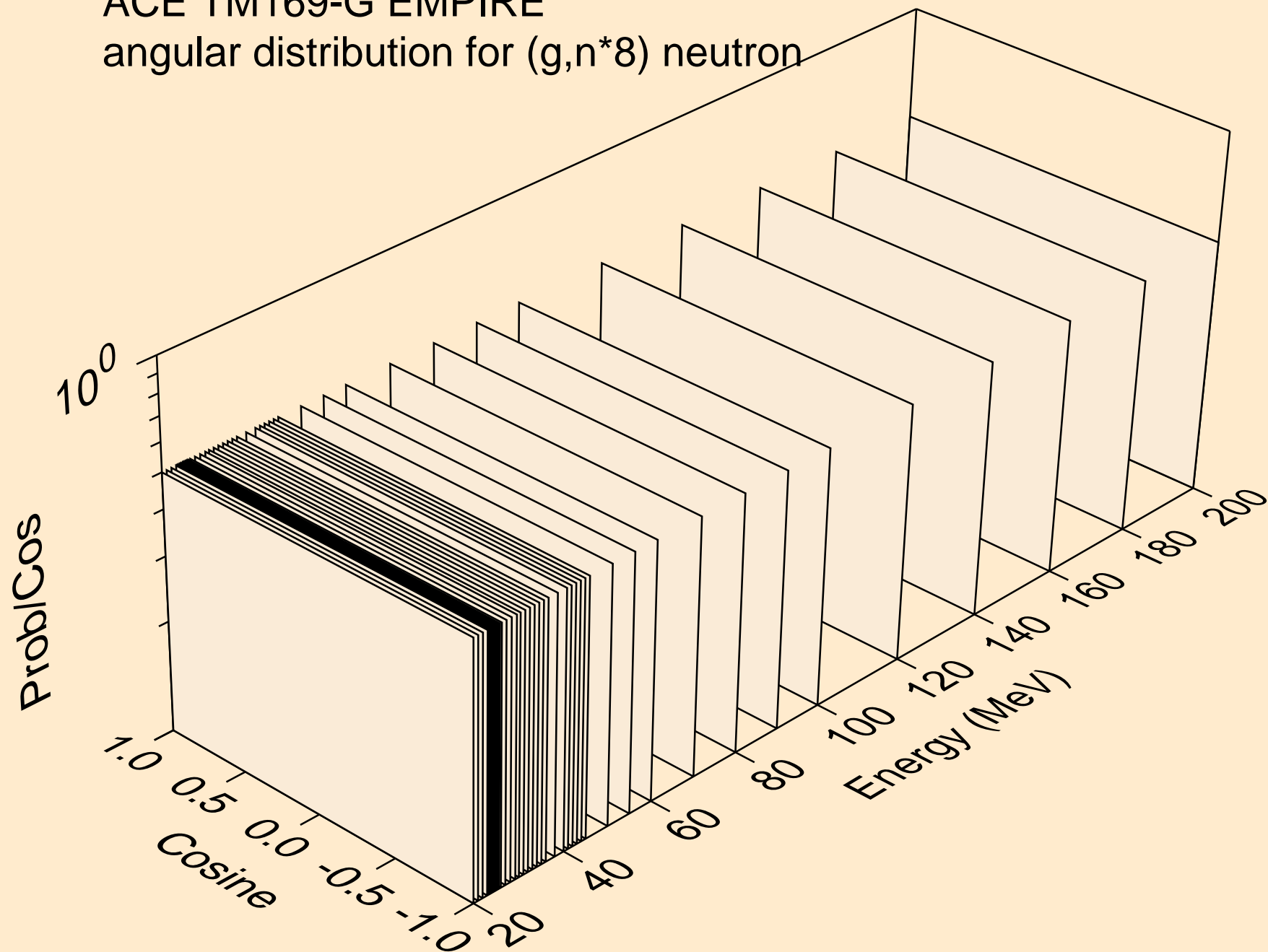
ACE TM169-G EMPIRE
angular distribution for (g,n*7) neutron



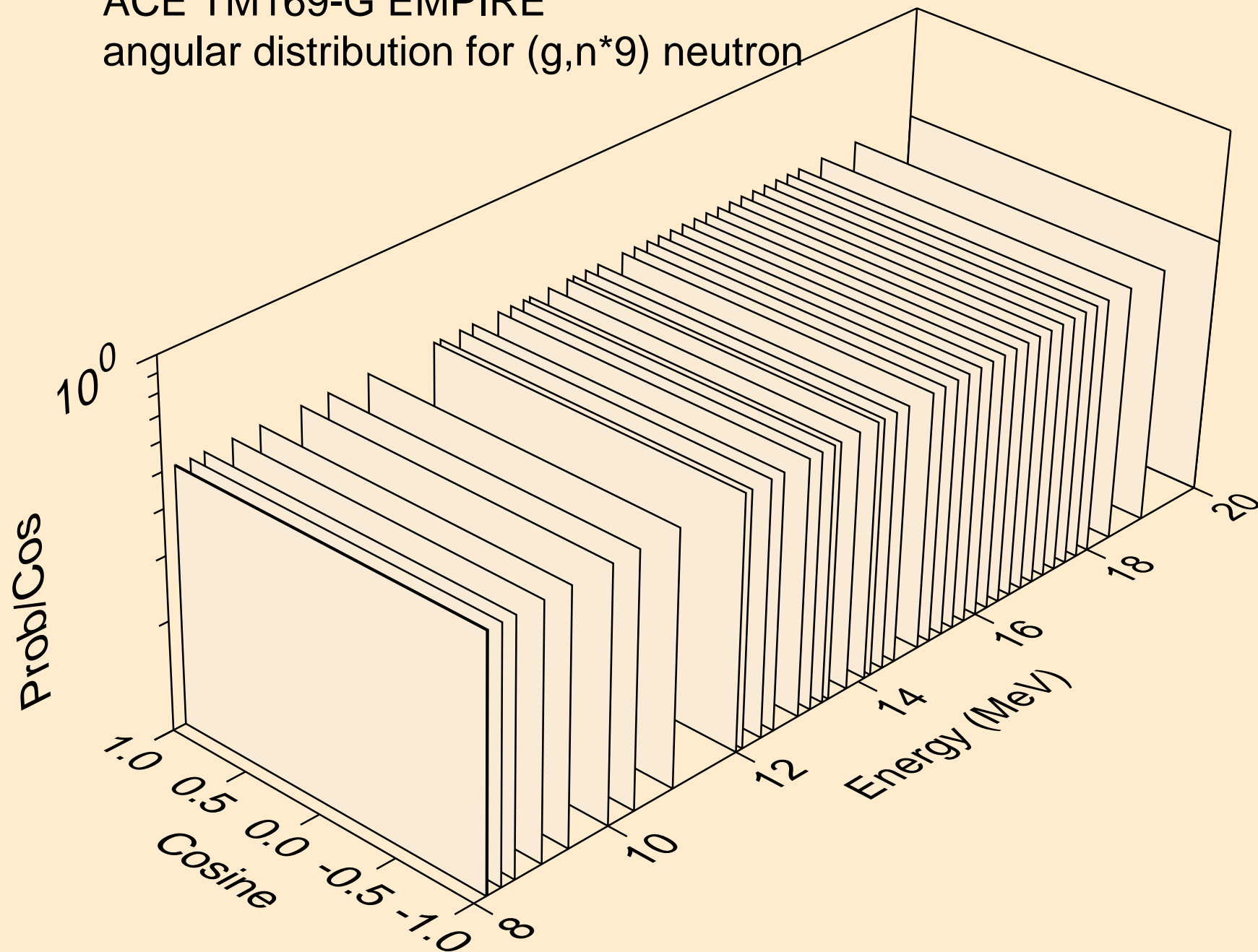
ACE TM169-G EMPIRE
angular distribution for (g,n*8) neutron



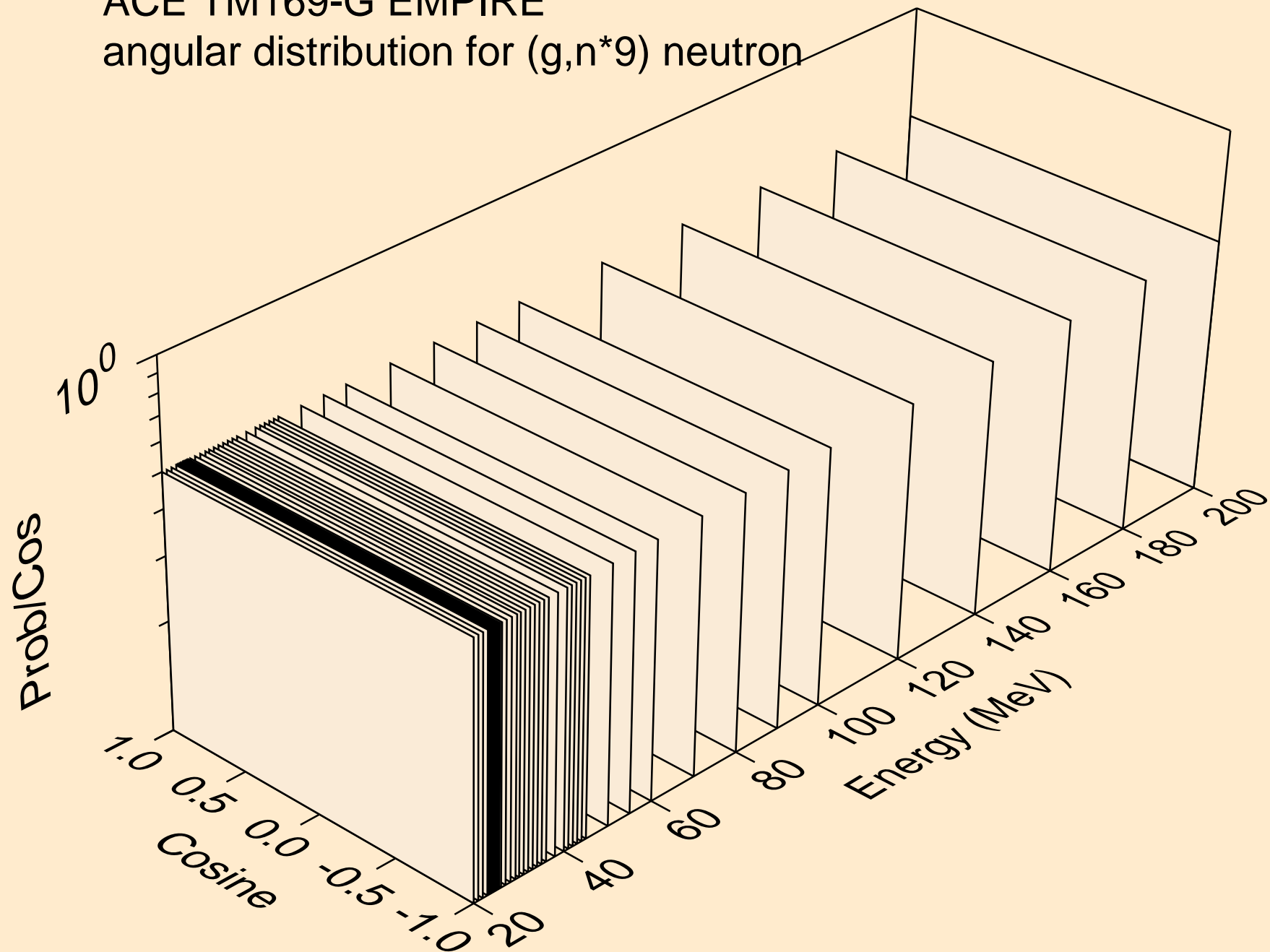
ACE TM169-G EMPIRE
angular distribution for (g,n*8) neutron



ACE TM169-G EMPIRE
angular distribution for (g,n*9) neutron

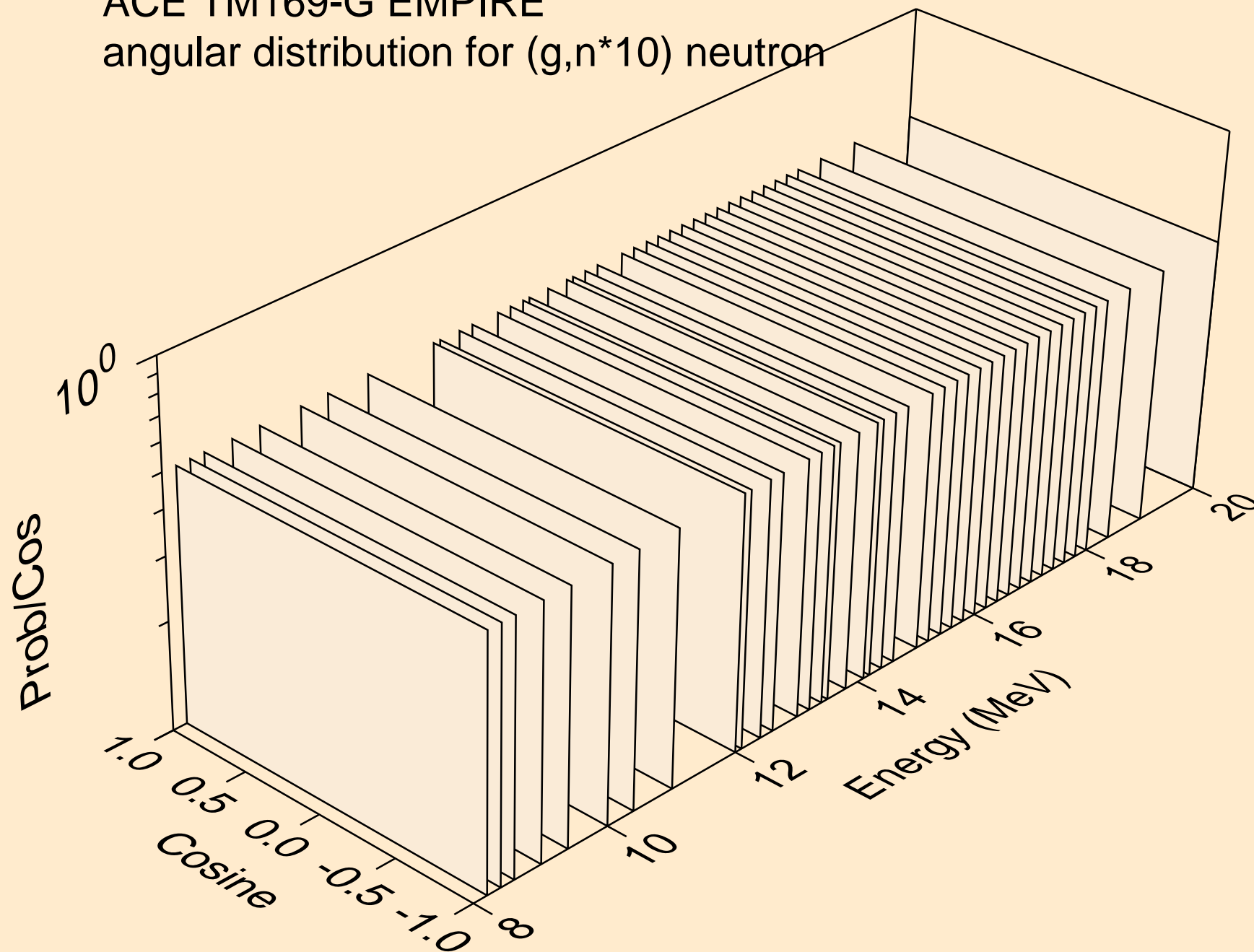


ACE TM169-G EMPIRE
angular distribution for (g,n*9) neutron



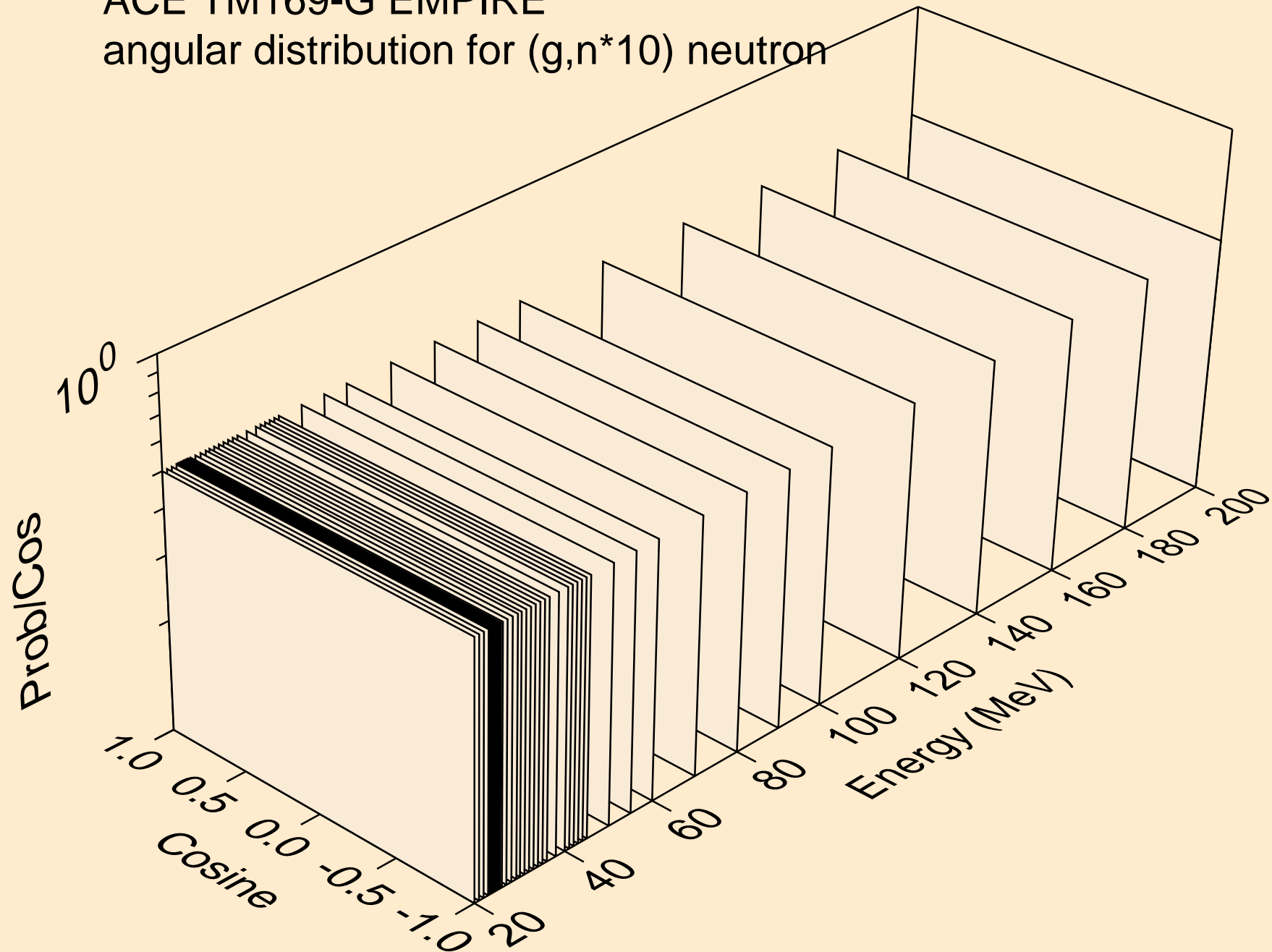
ACE TM169-G EMPIRE

angular distribution for (g,n*10) neutron



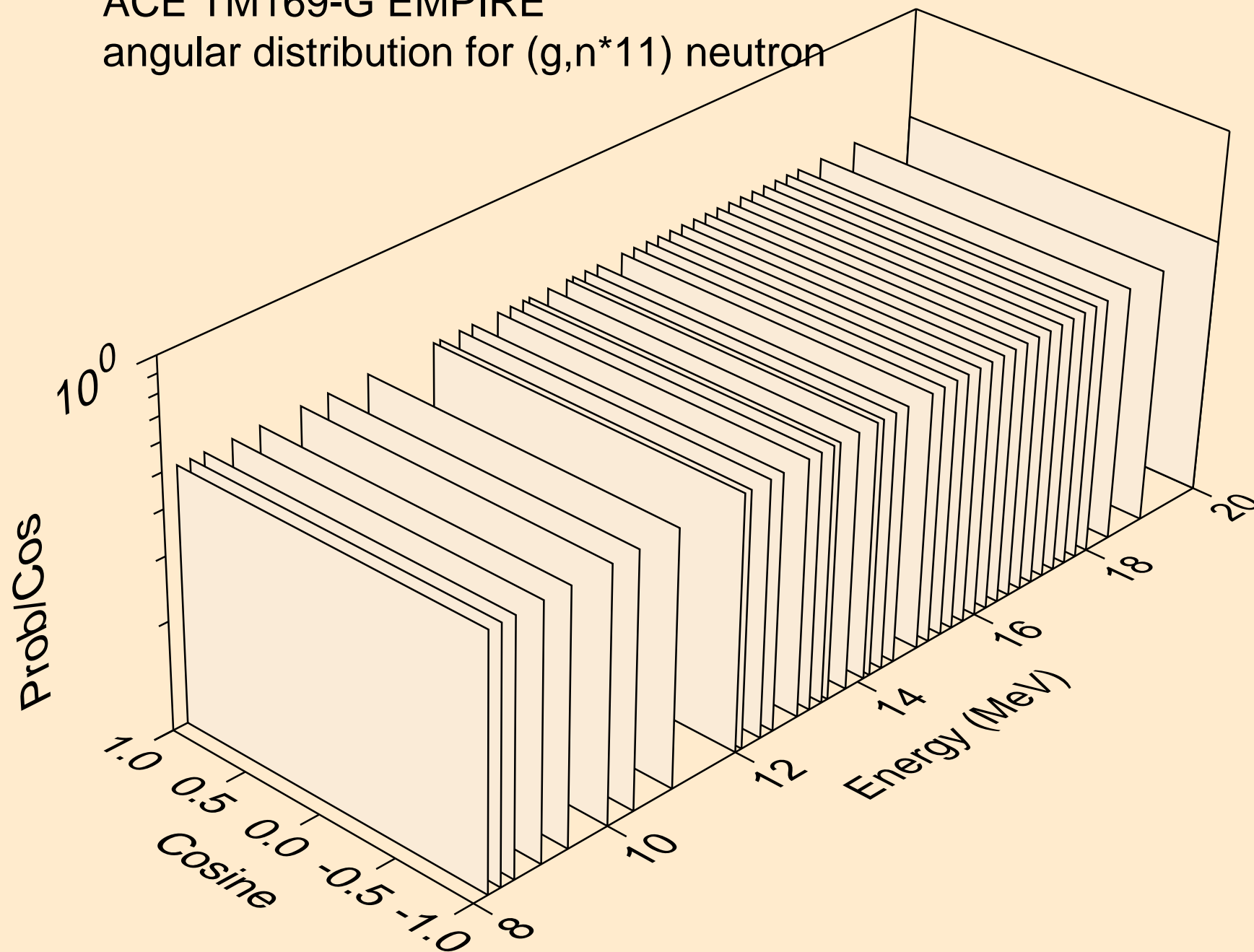
ACE TM169-G EMPIRE

angular distribution for (g,n*10) neutron



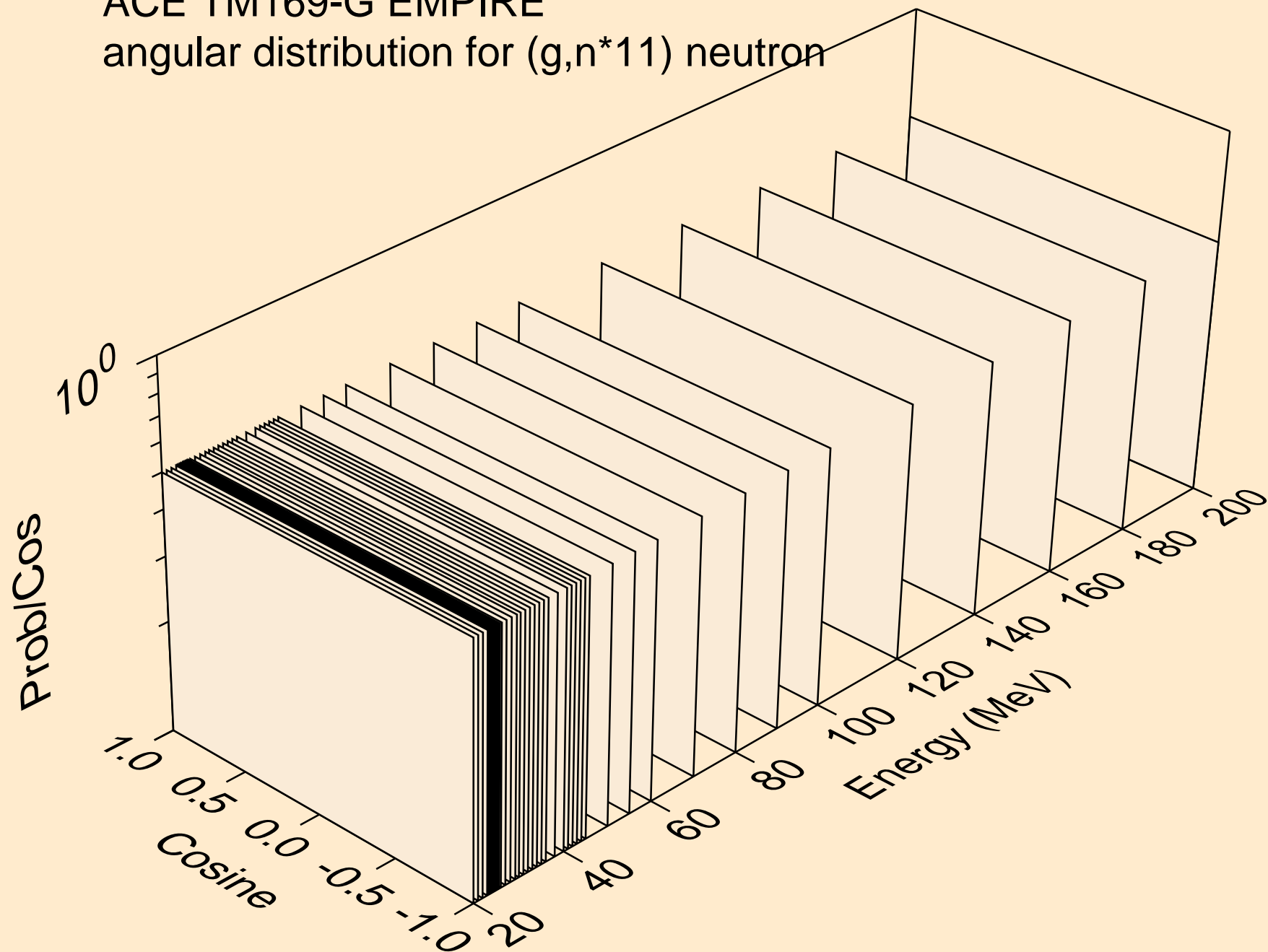
ACE TM169-G EMPIRE

angular distribution for (g,n*11) neutron

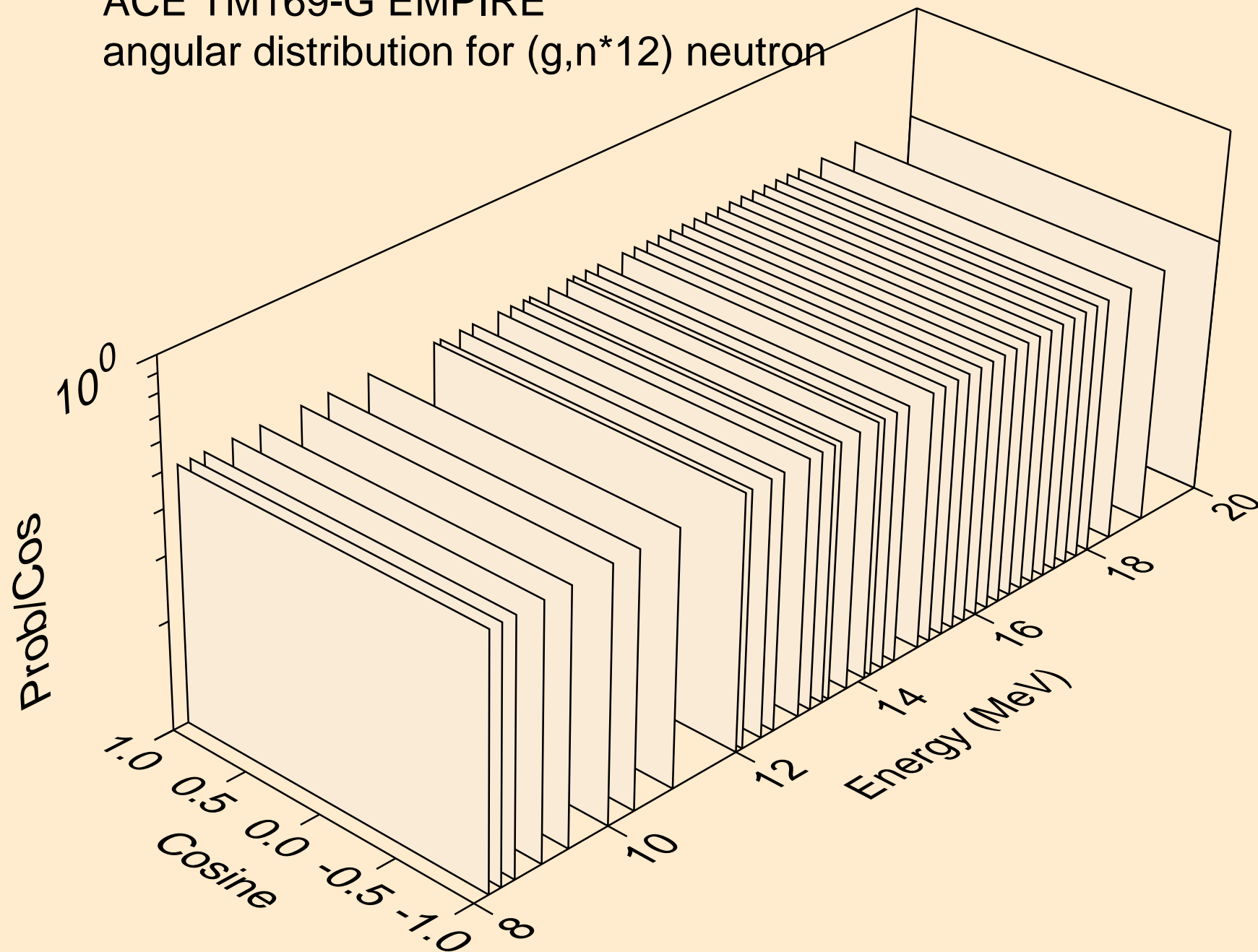


ACE TM169-G EMPIRE

angular distribution for (g,n*11) neutron

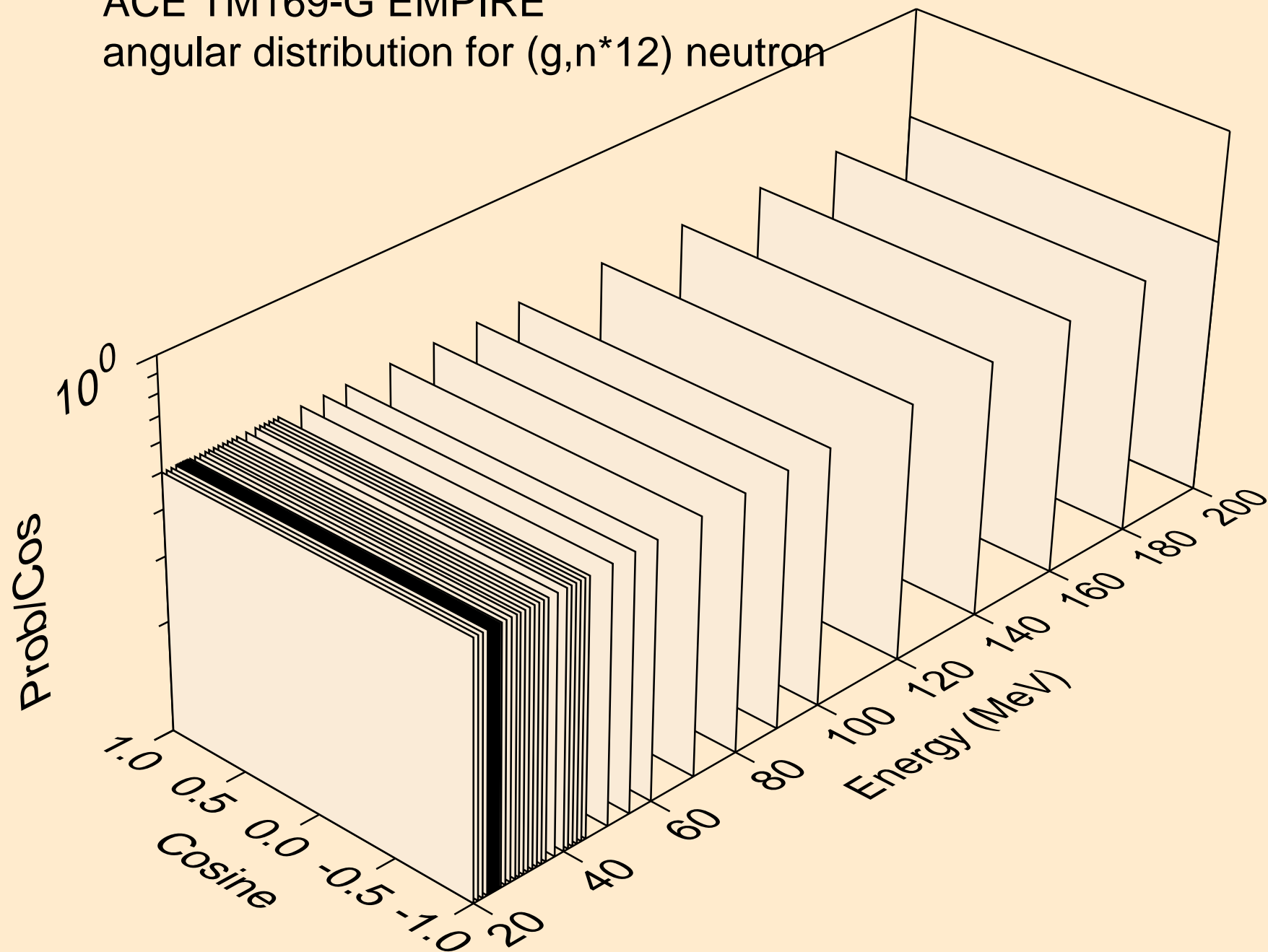


ACE TM169-G EMPIRE
angular distribution for (g,n*12) neutron

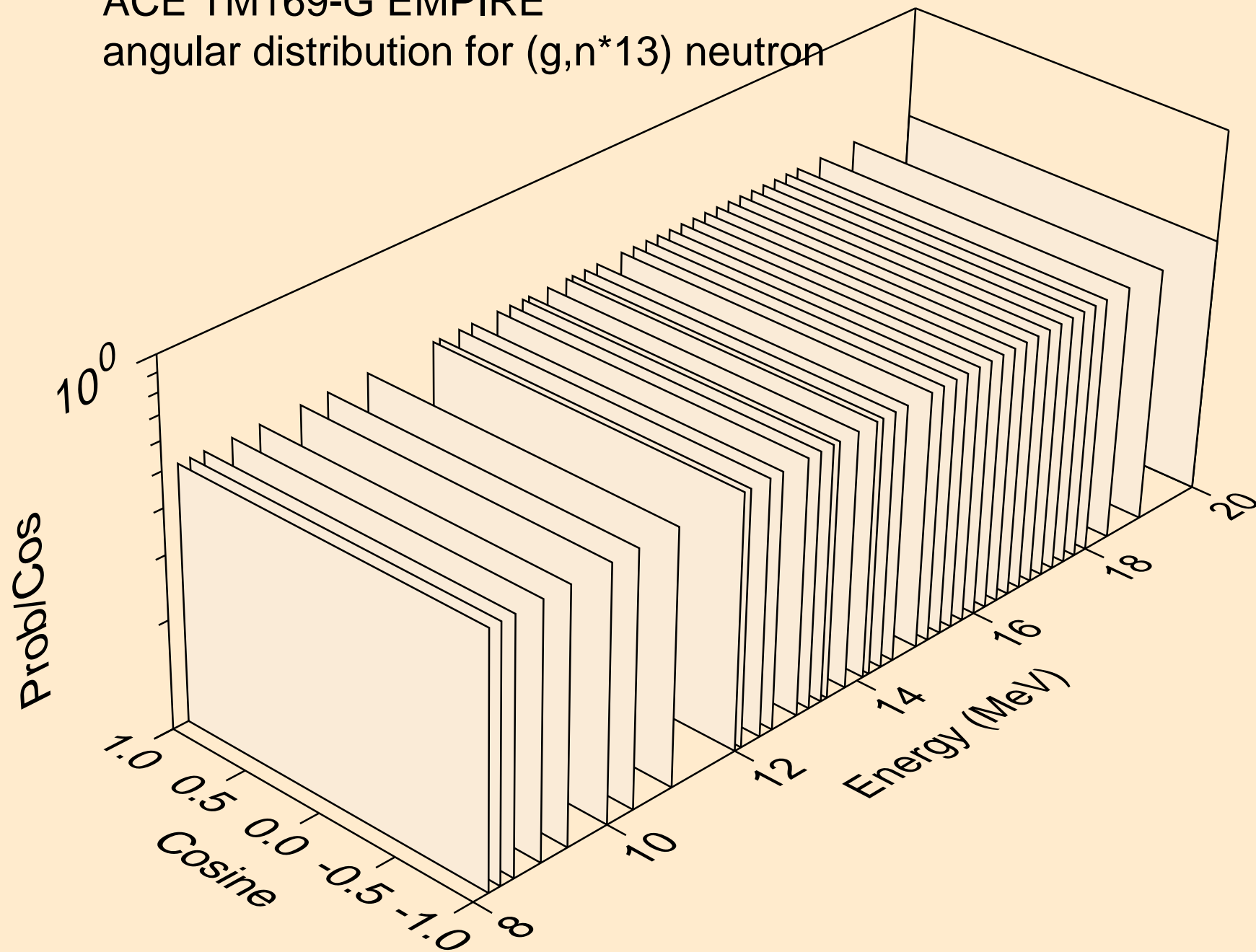


ACE TM169-G EMPIRE

angular distribution for (g,n*12) neutron

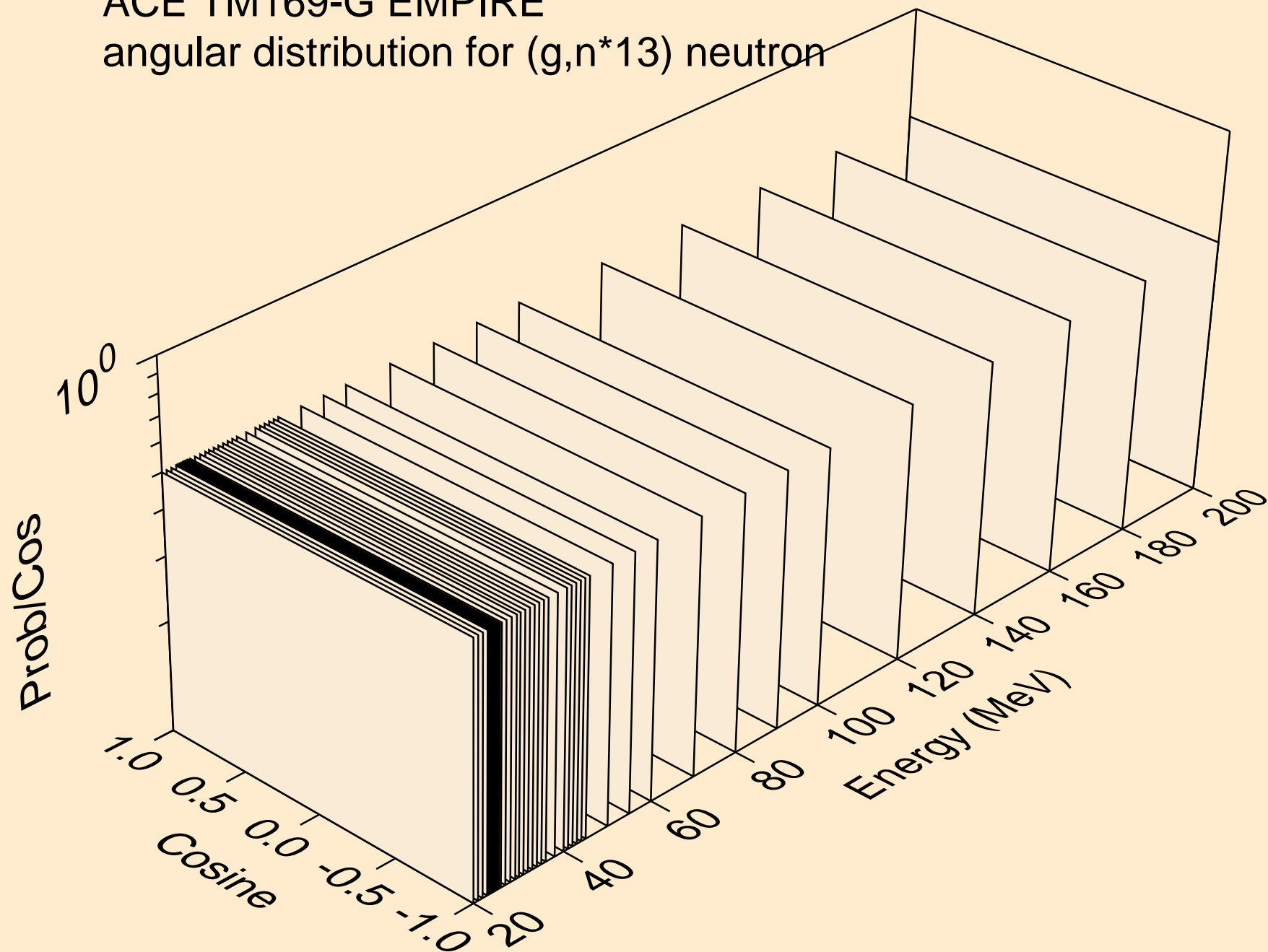


ACE TM169-G EMPIRE
angular distribution for (g,n*13) neutron

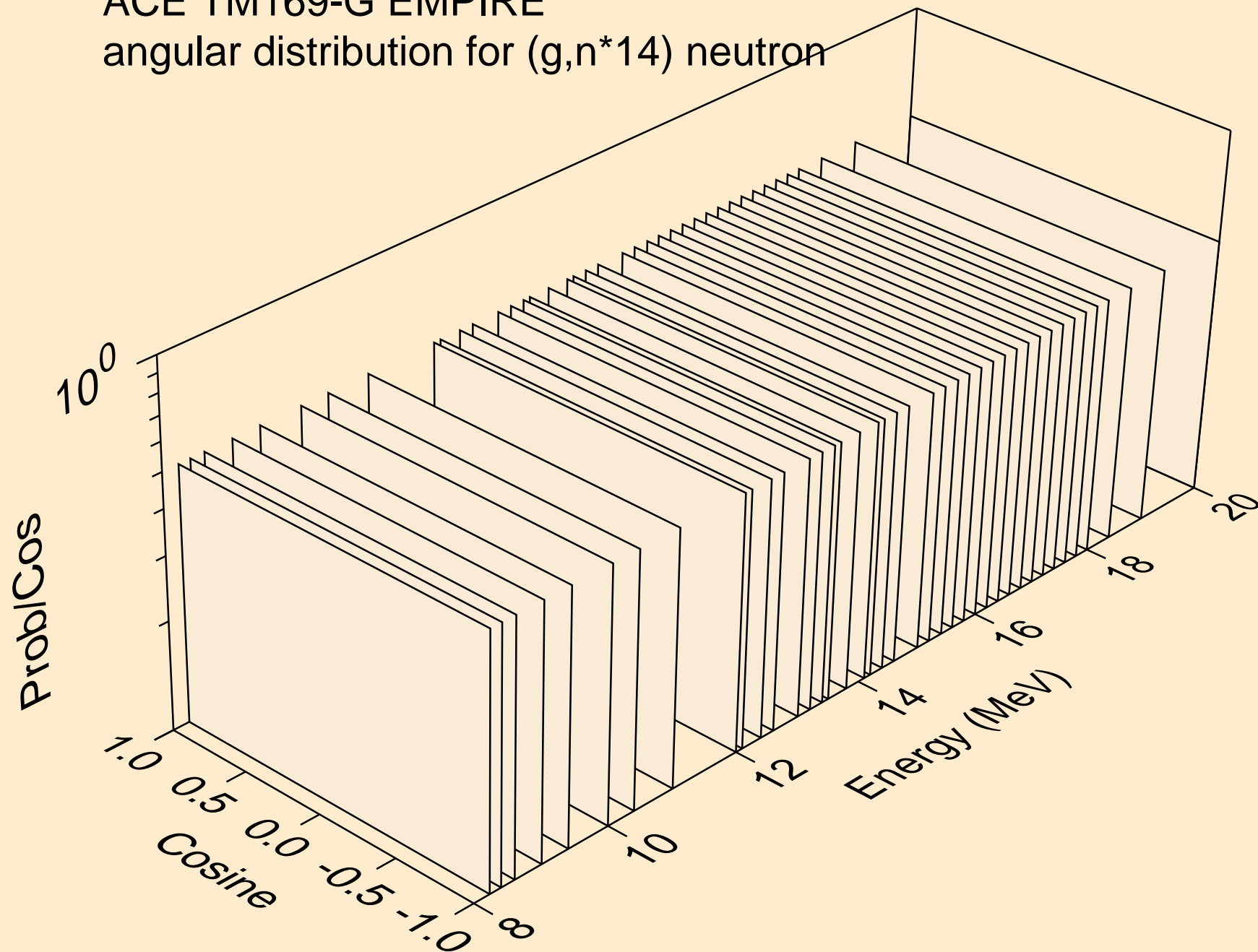


ACE TM169-G EMPIRE

angular distribution for (g,n*13) neutron

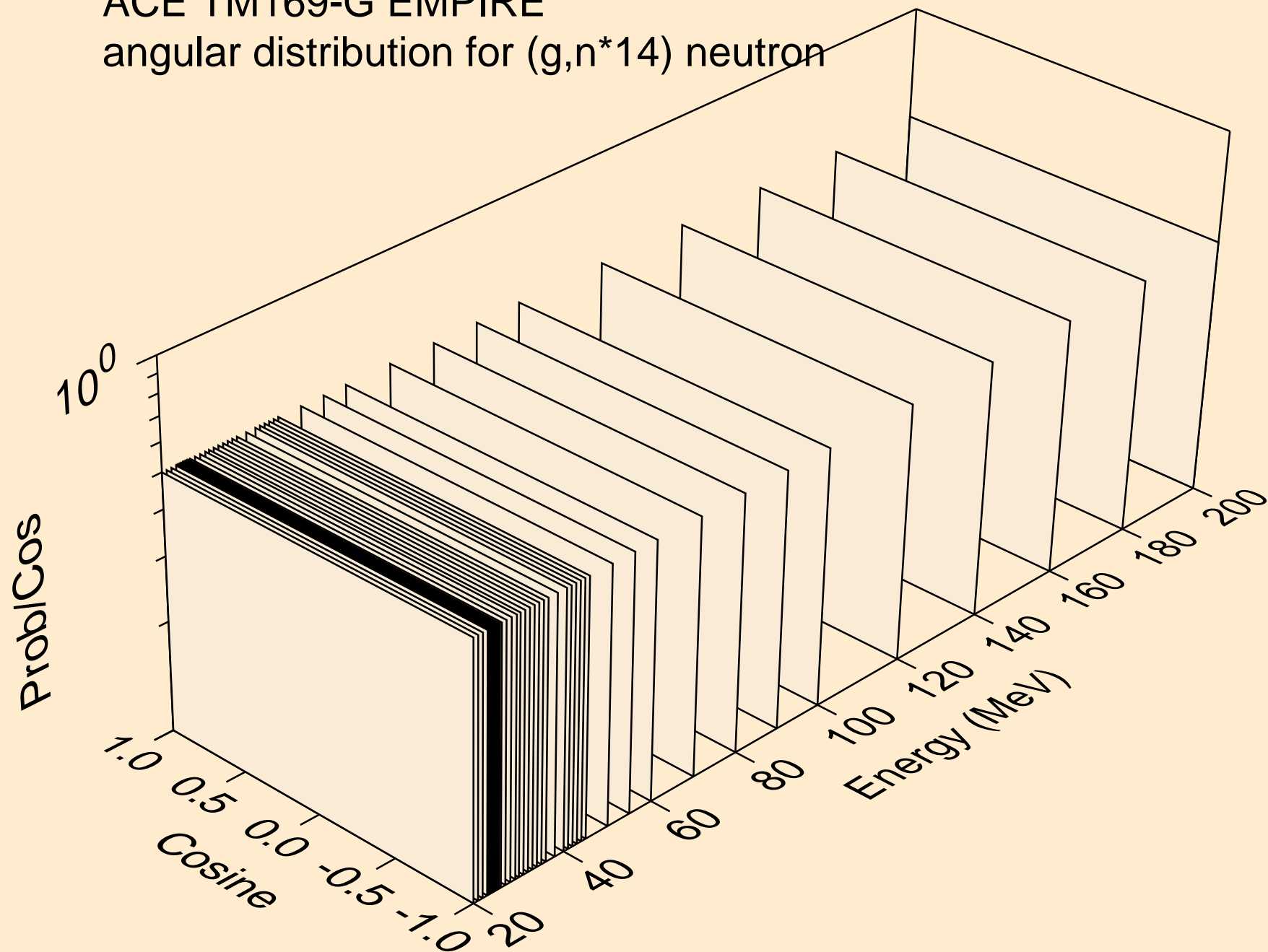


ACE TM169-G EMPIRE
angular distribution for (g,n*14) neutron



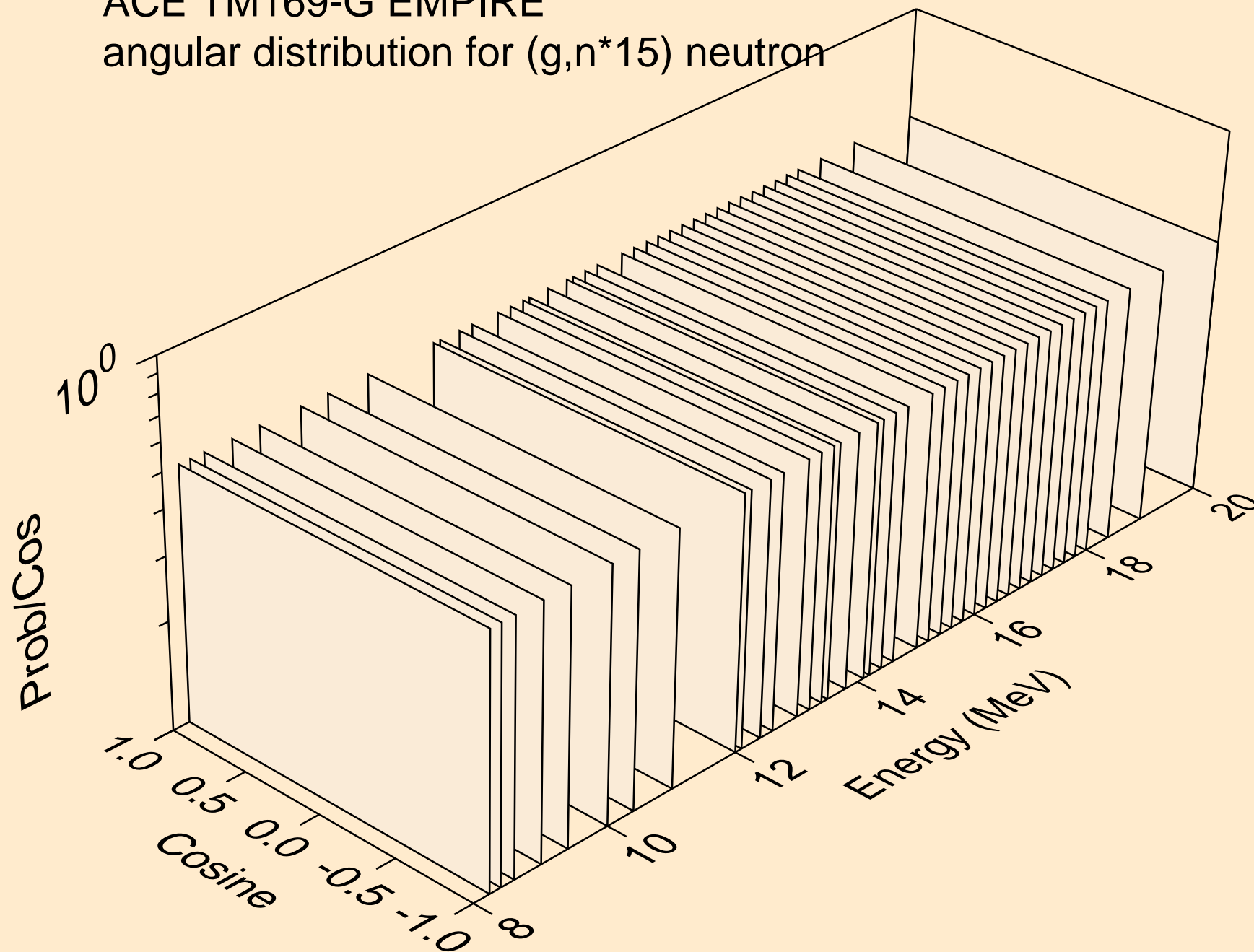
ACE TM169-G EMPIRE

angular distribution for (g,n*14) neutron

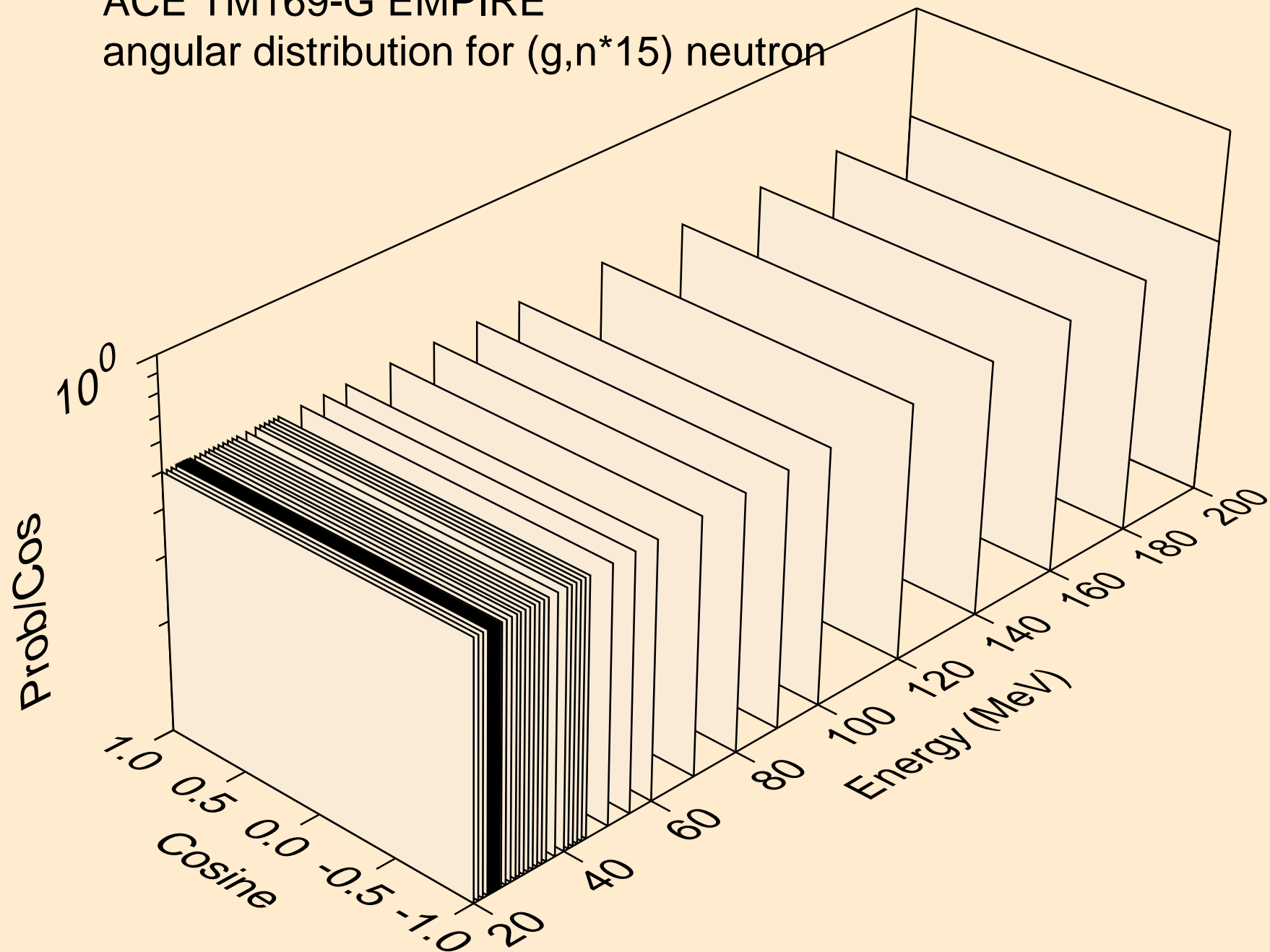


ACE TM169-G EMPIRE

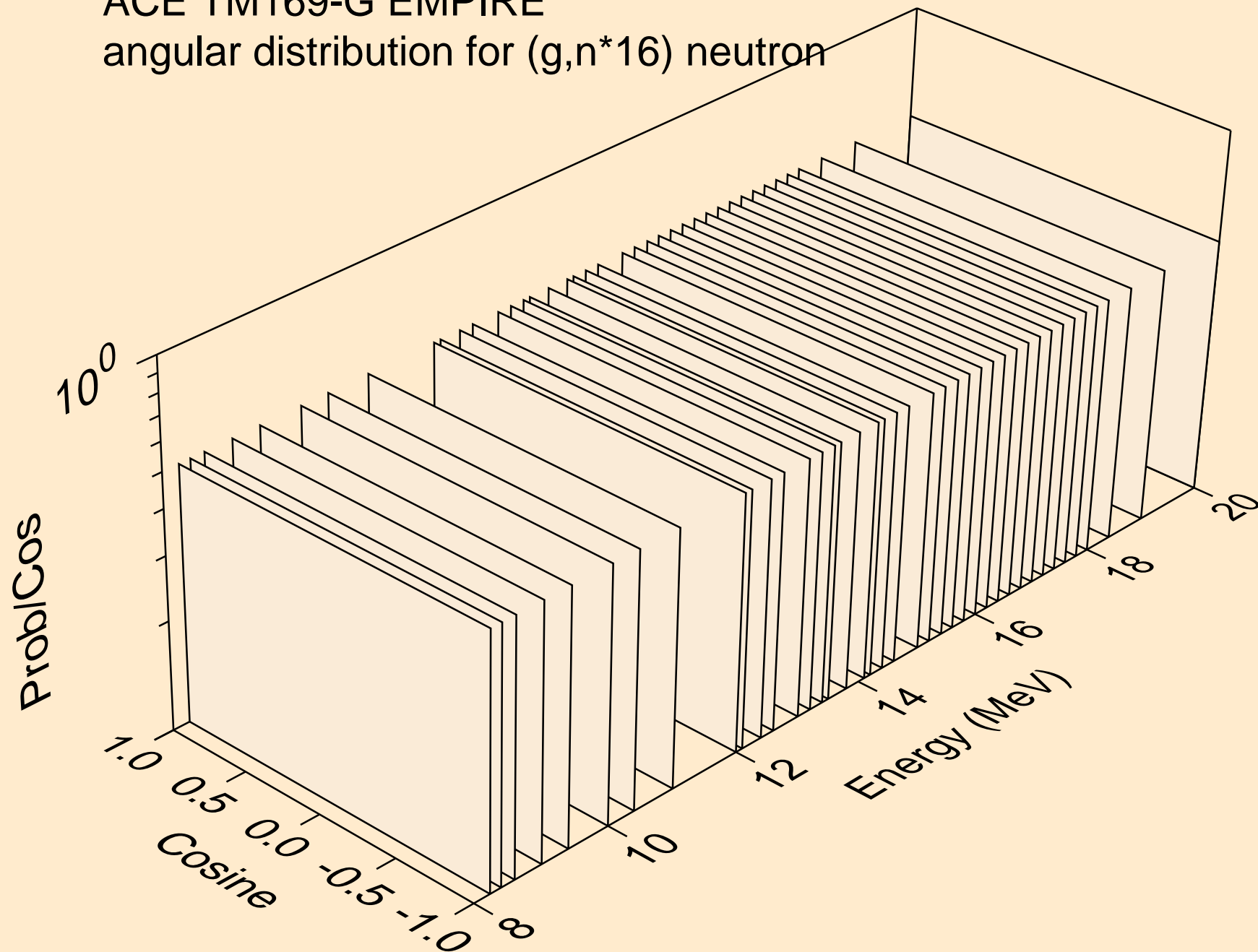
angular distribution for (g,n*15) neutron



ACE TM169-G EMPIRE
angular distribution for (g,n*15) neutron

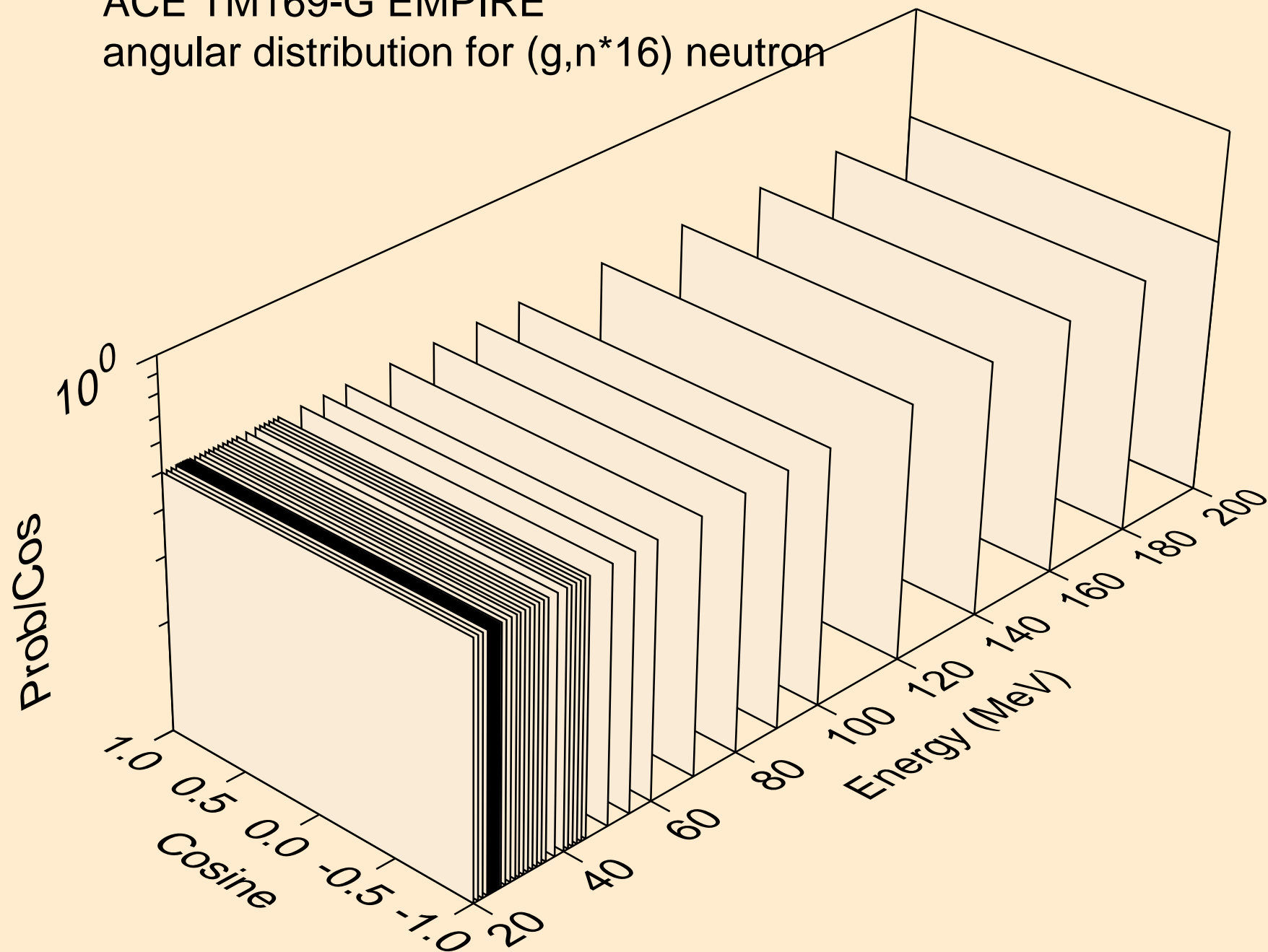


ACE TM169-G EMPIRE
angular distribution for (g,n*16) neutron

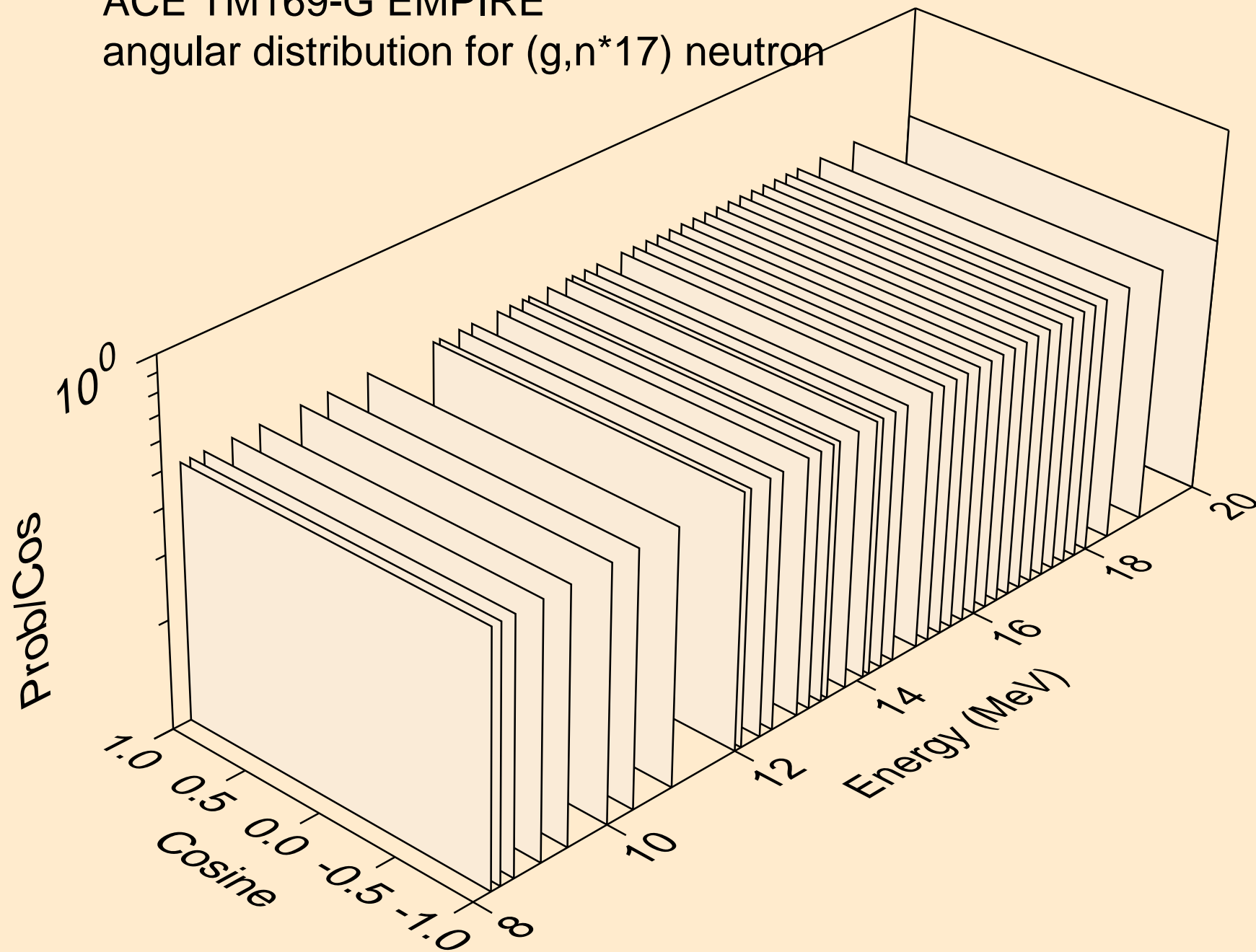


ACE TM169-G EMPIRE

angular distribution for (g,n*16) neutron

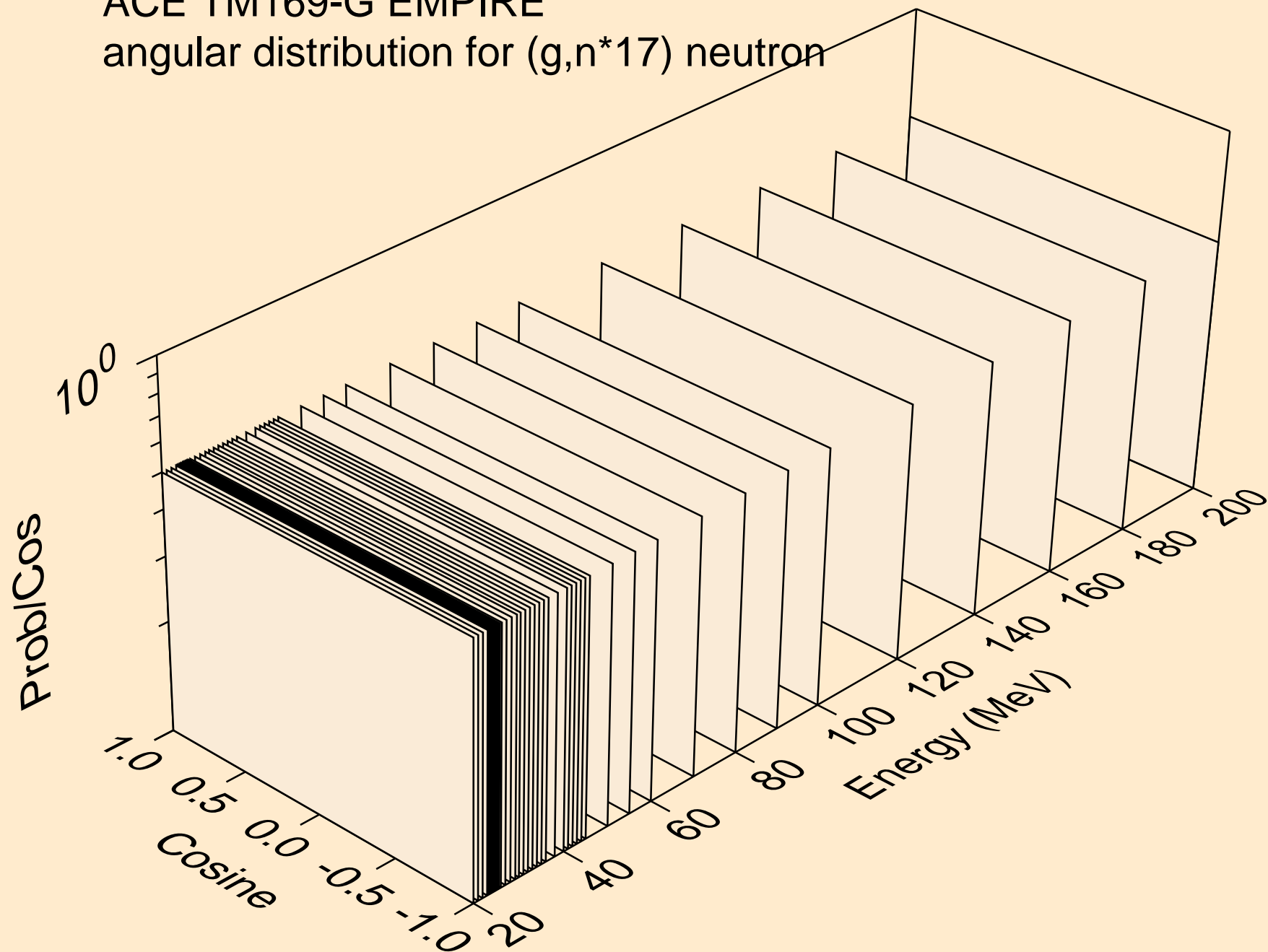


ACE TM169-G EMPIRE
angular distribution for (g,n*17) neutron



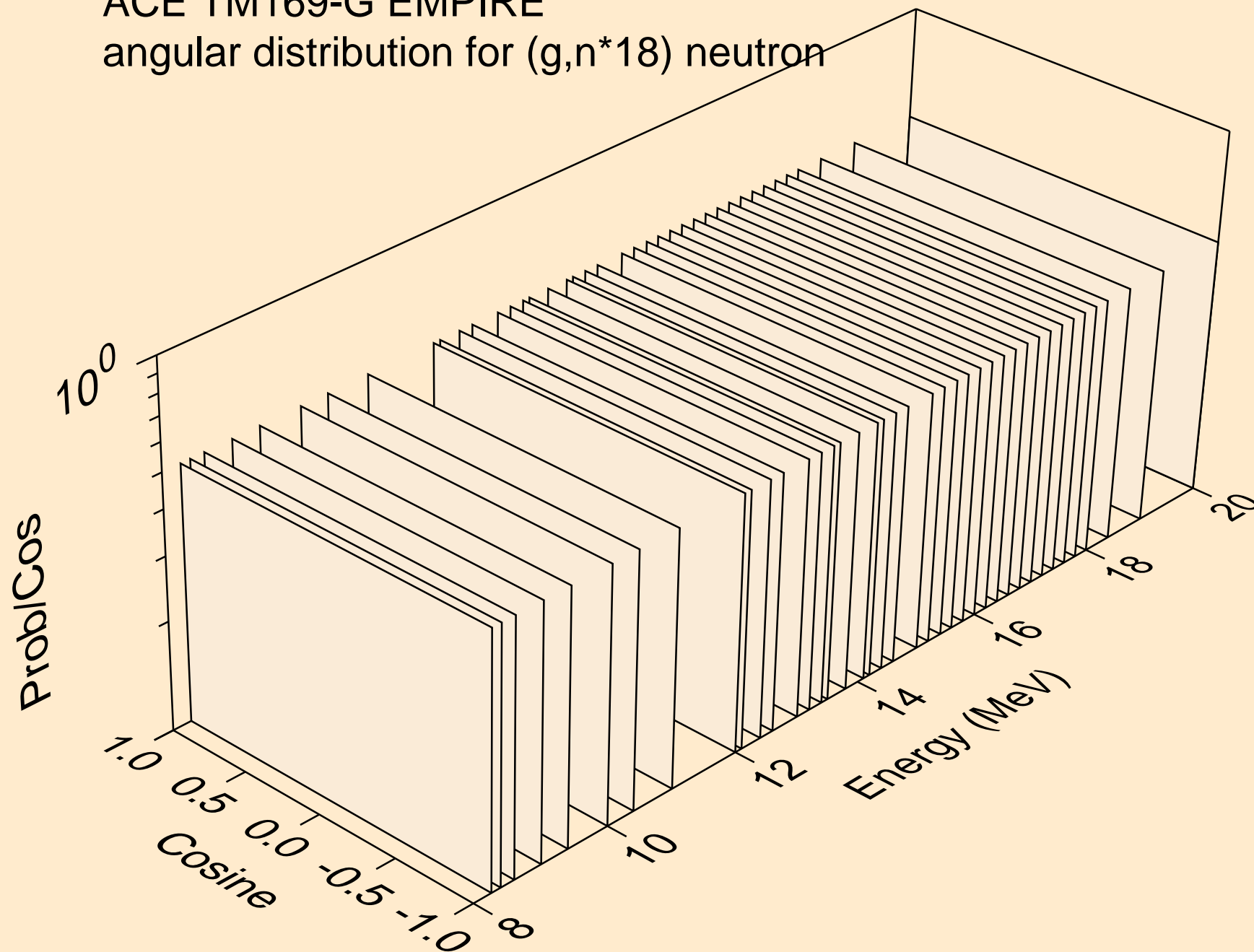
ACE TM169-G EMPIRE

angular distribution for (g,n*17) neutron

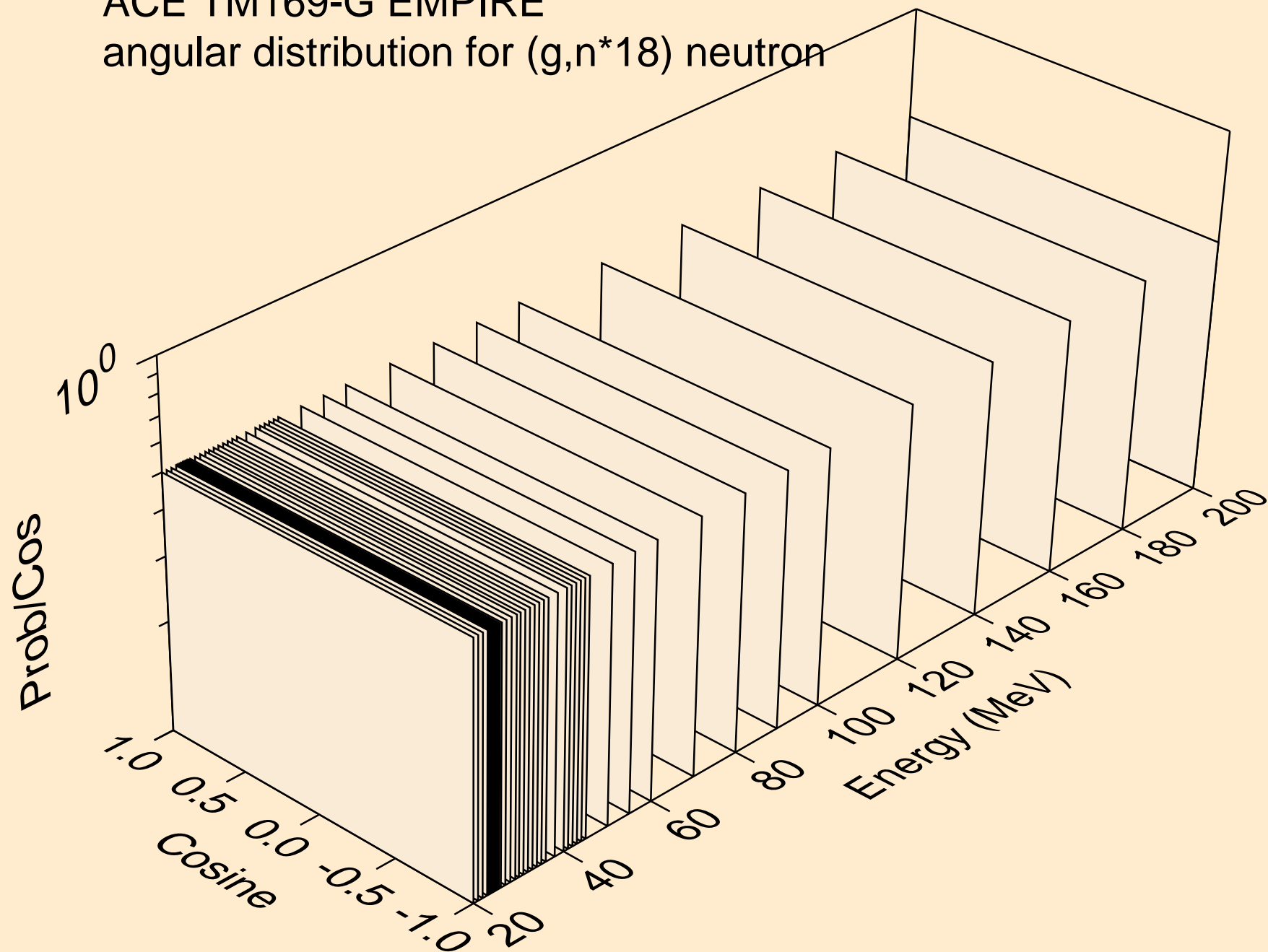


ACE TM169-G EMPIRE

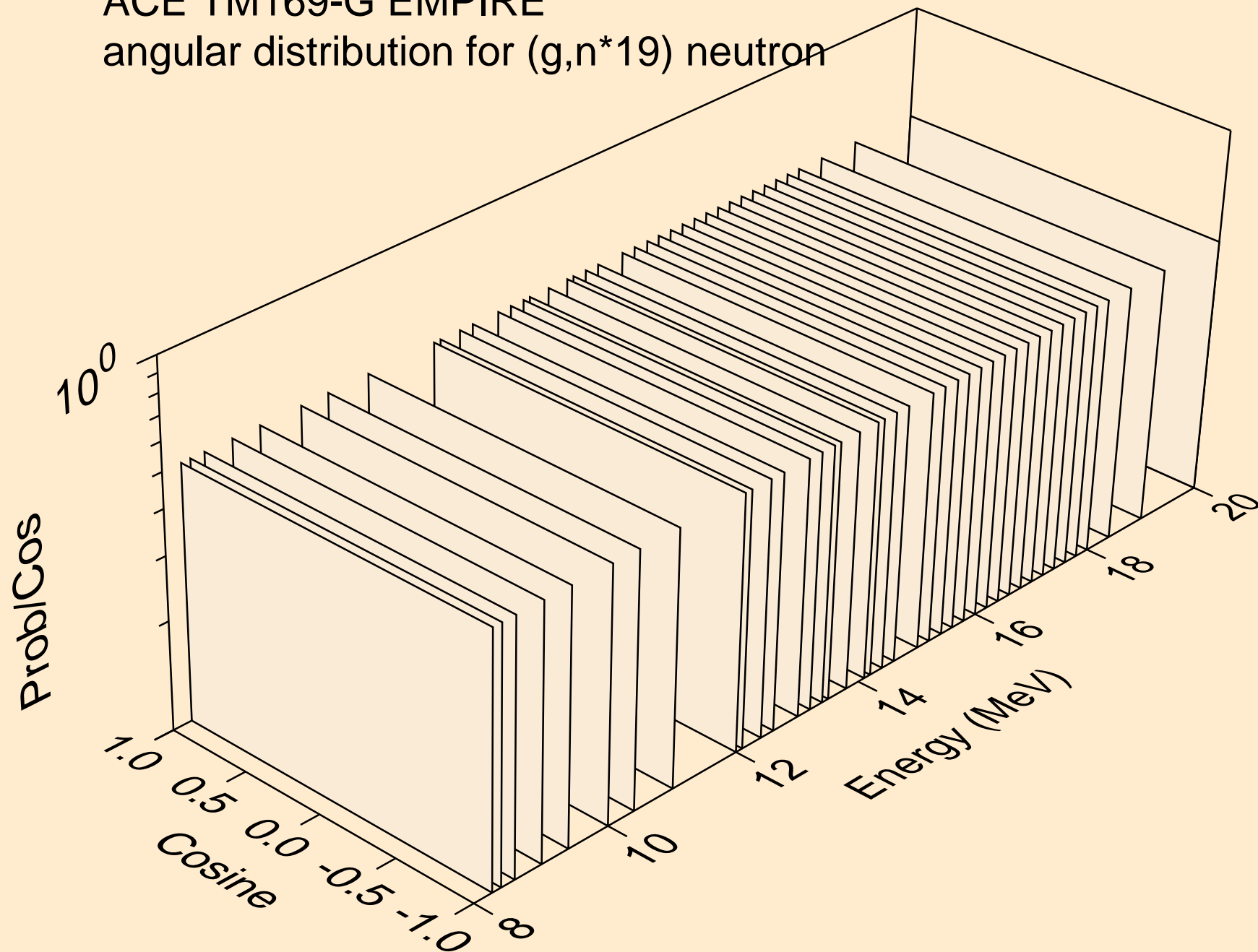
angular distribution for (g,n*18) neutron



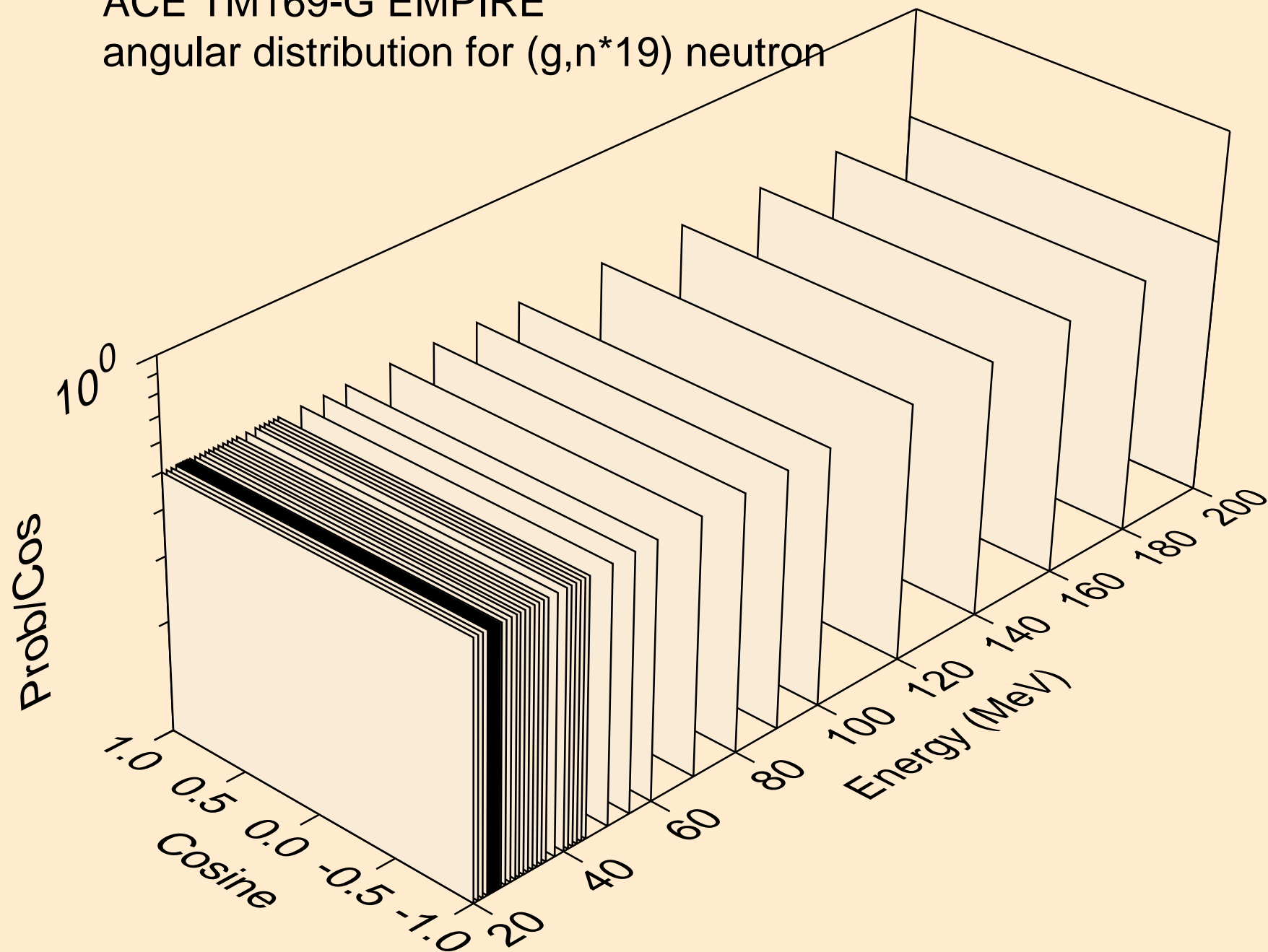
ACE TM169-G EMPIRE
angular distribution for (g,n*18) neutron



ACE TM169-G EMPIRE
angular distribution for (g,n*19) neutron

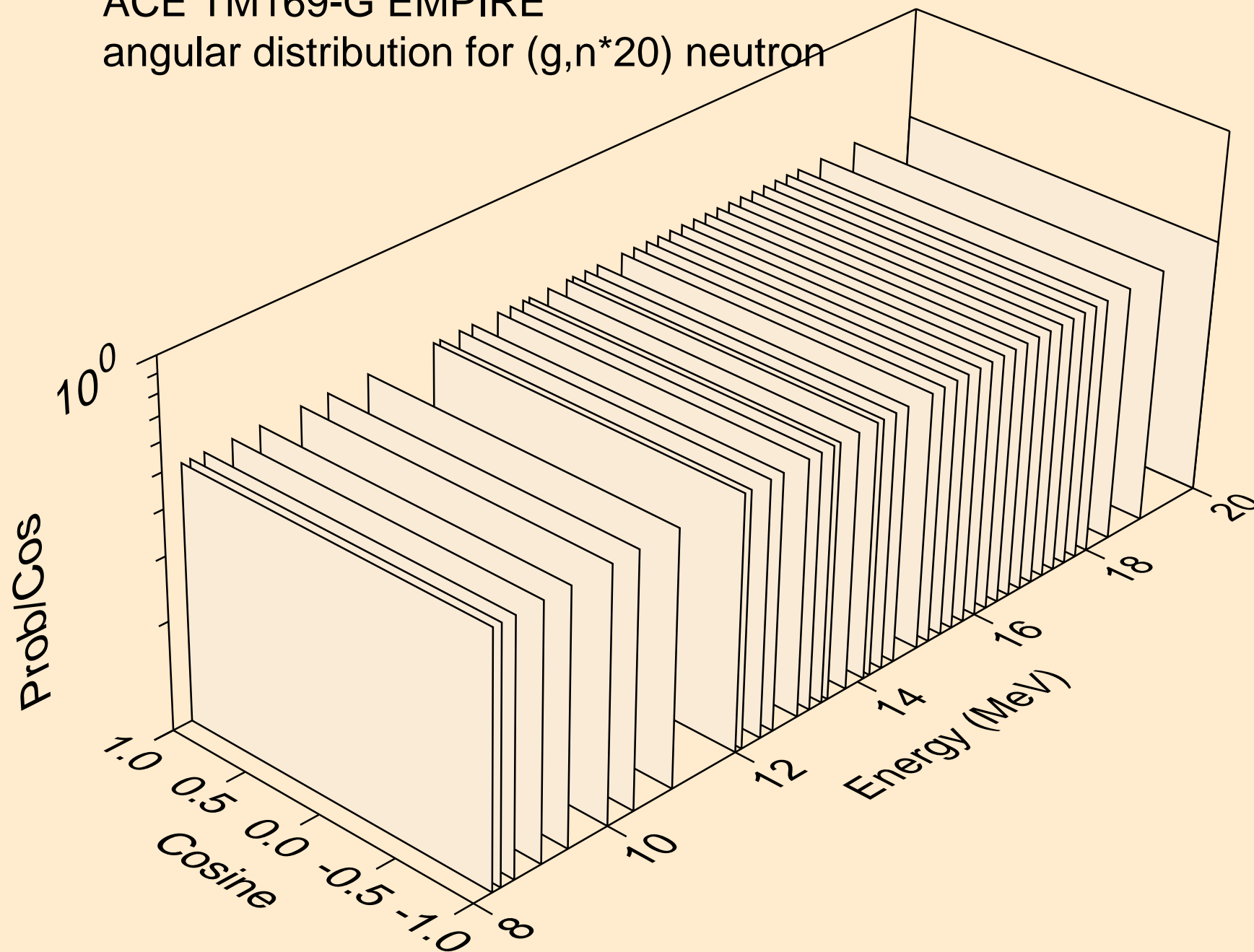


ACE TM169-G EMPIRE
angular distribution for (g,n*19) neutron

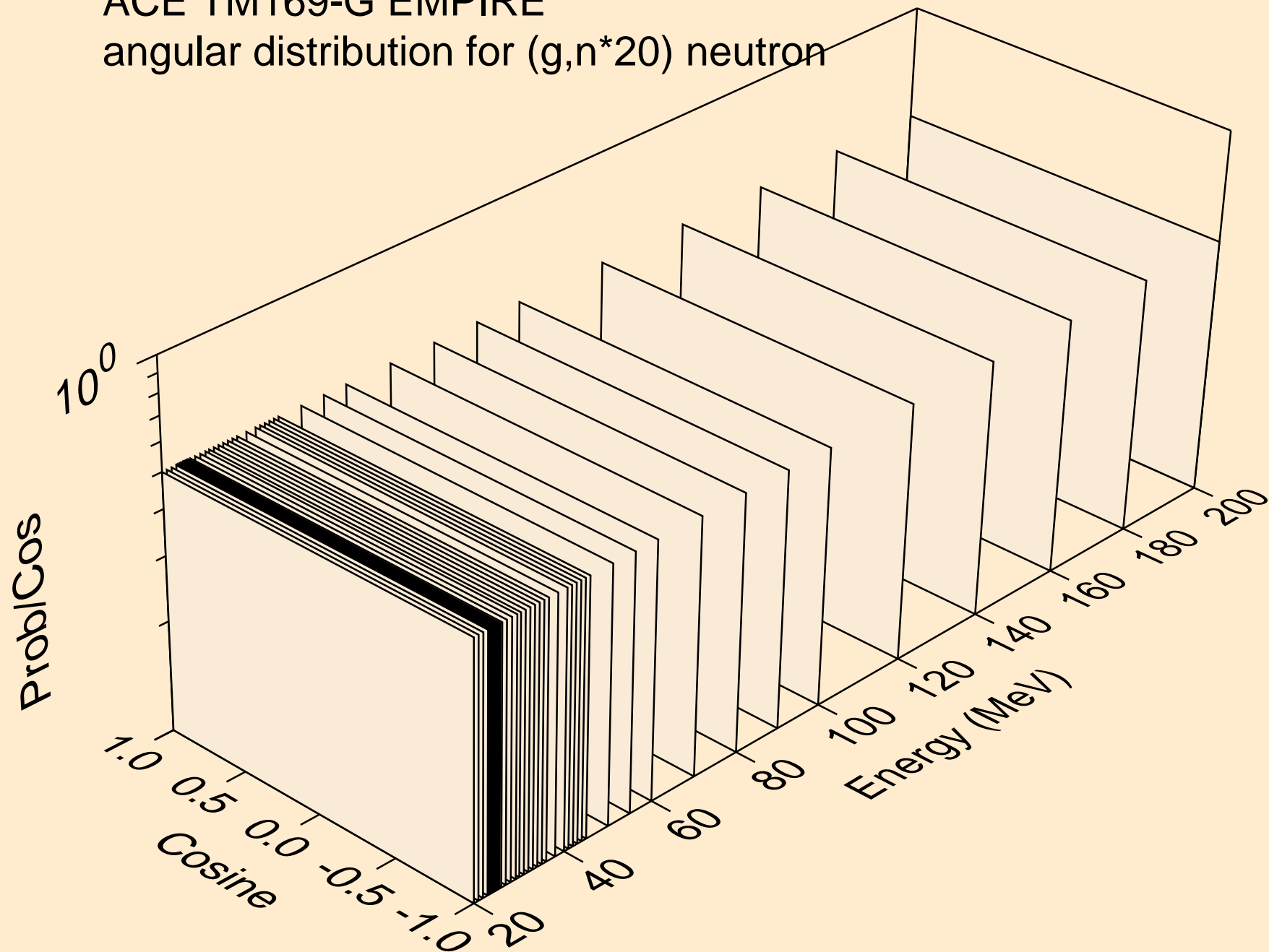


ACE TM169-G EMPIRE

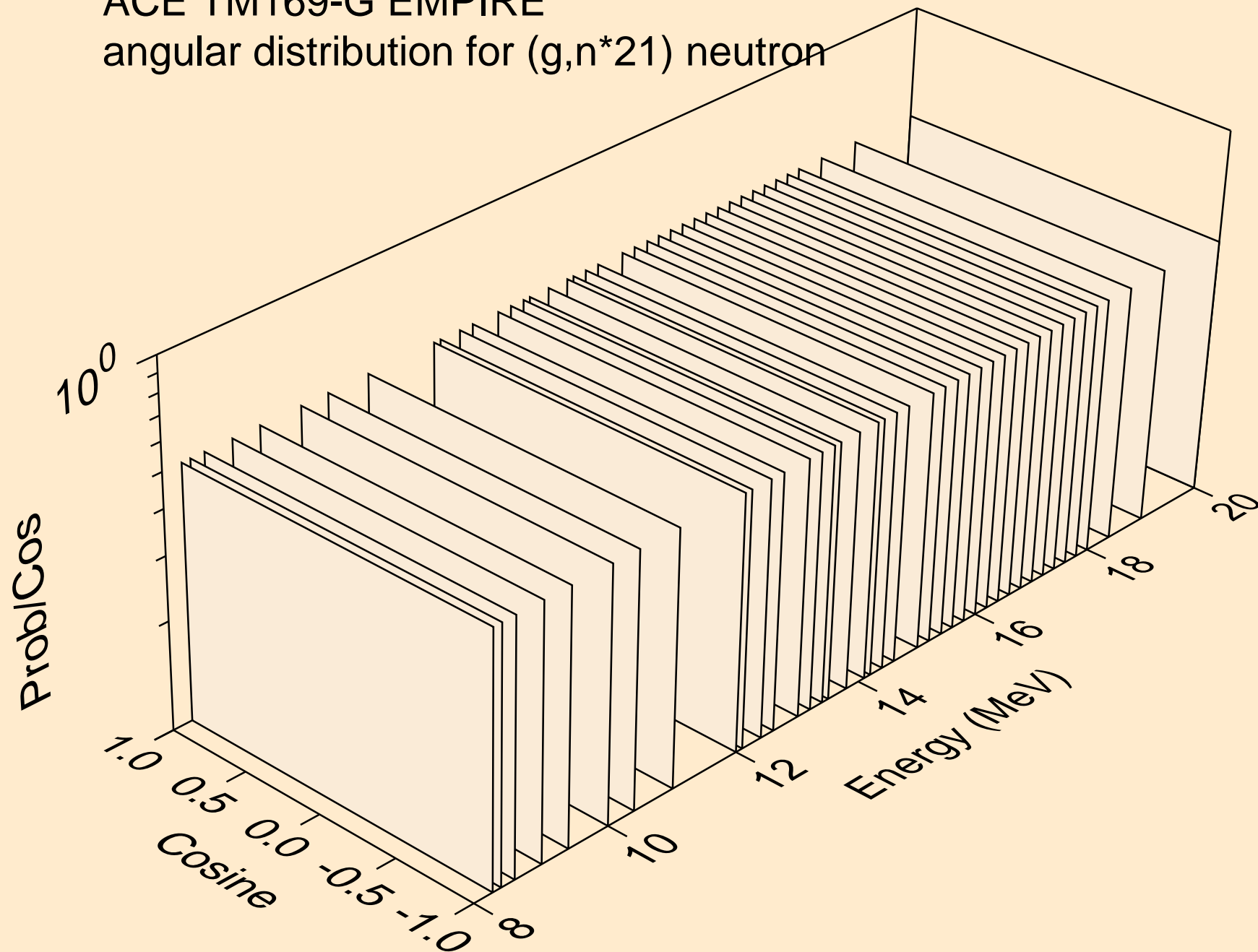
angular distribution for (g,n*20) neutron



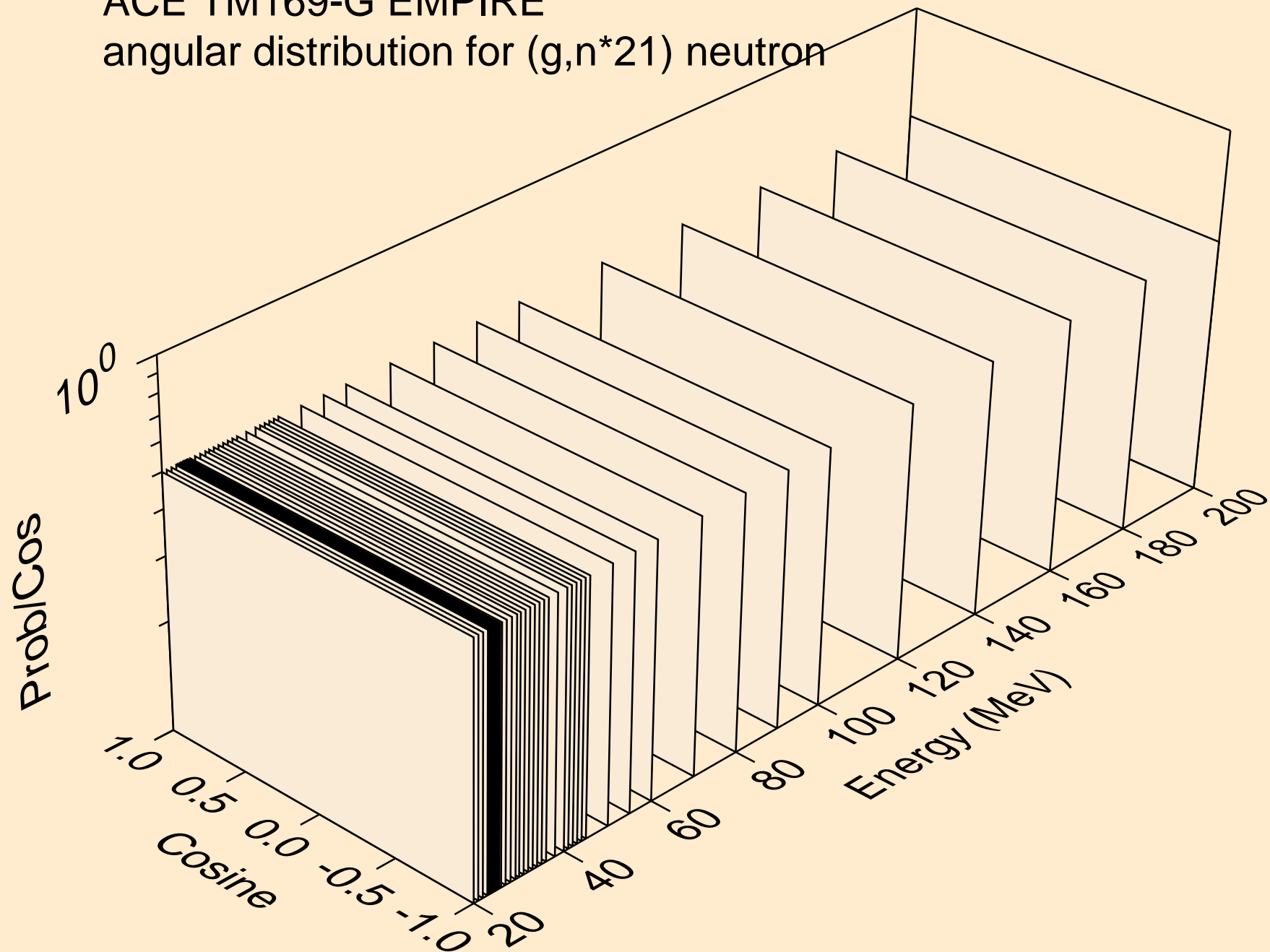
ACE TM169-G EMPIRE
angular distribution for (g,n*20) neutron



ACE TM169-G EMPIRE
angular distribution for (g,n*21) neutron

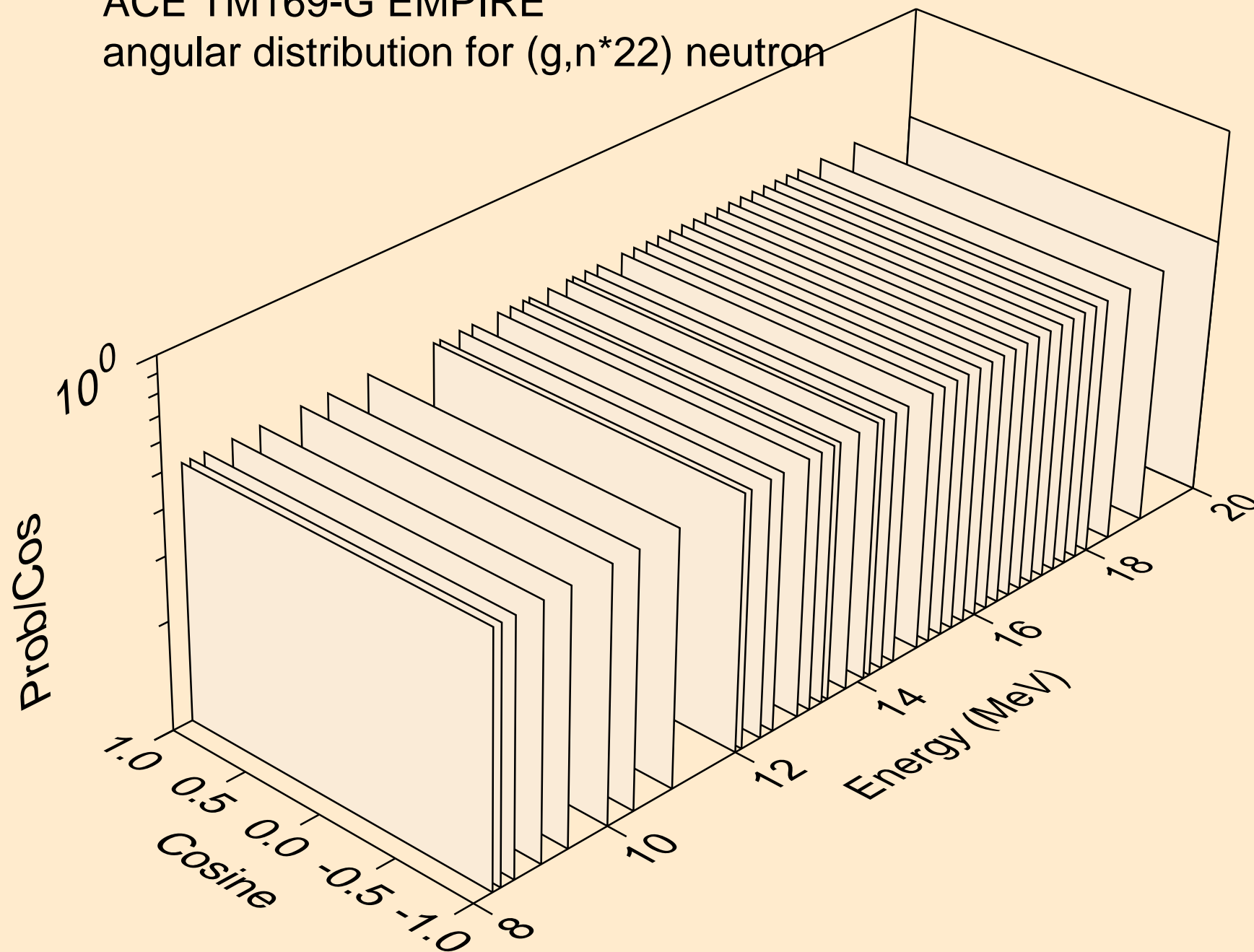


ACE TM169-G EMPIRE
angular distribution for (g,n*21) neutron

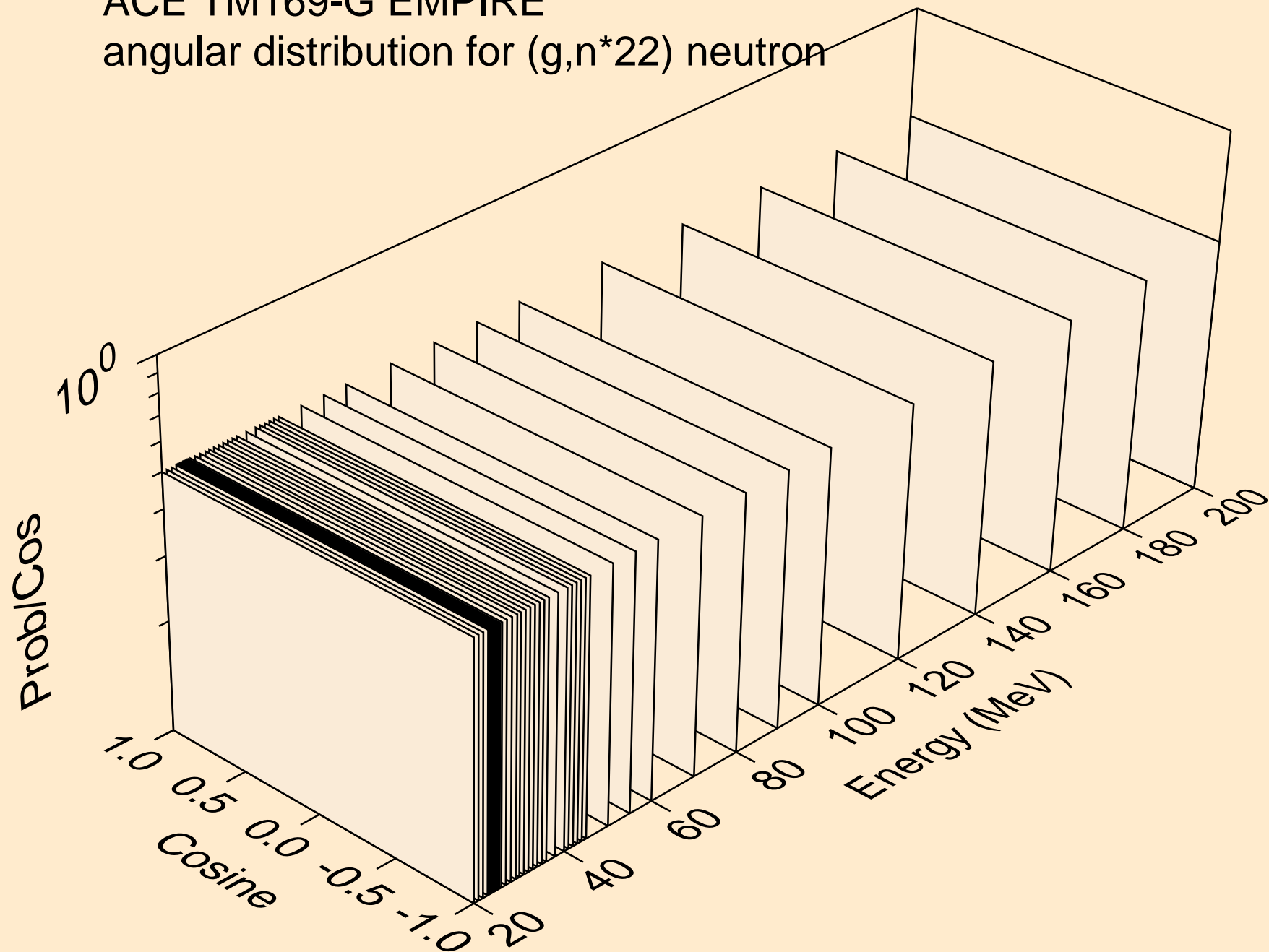


ACE TM169-G EMPIRE

angular distribution for (g,n*22) neutron

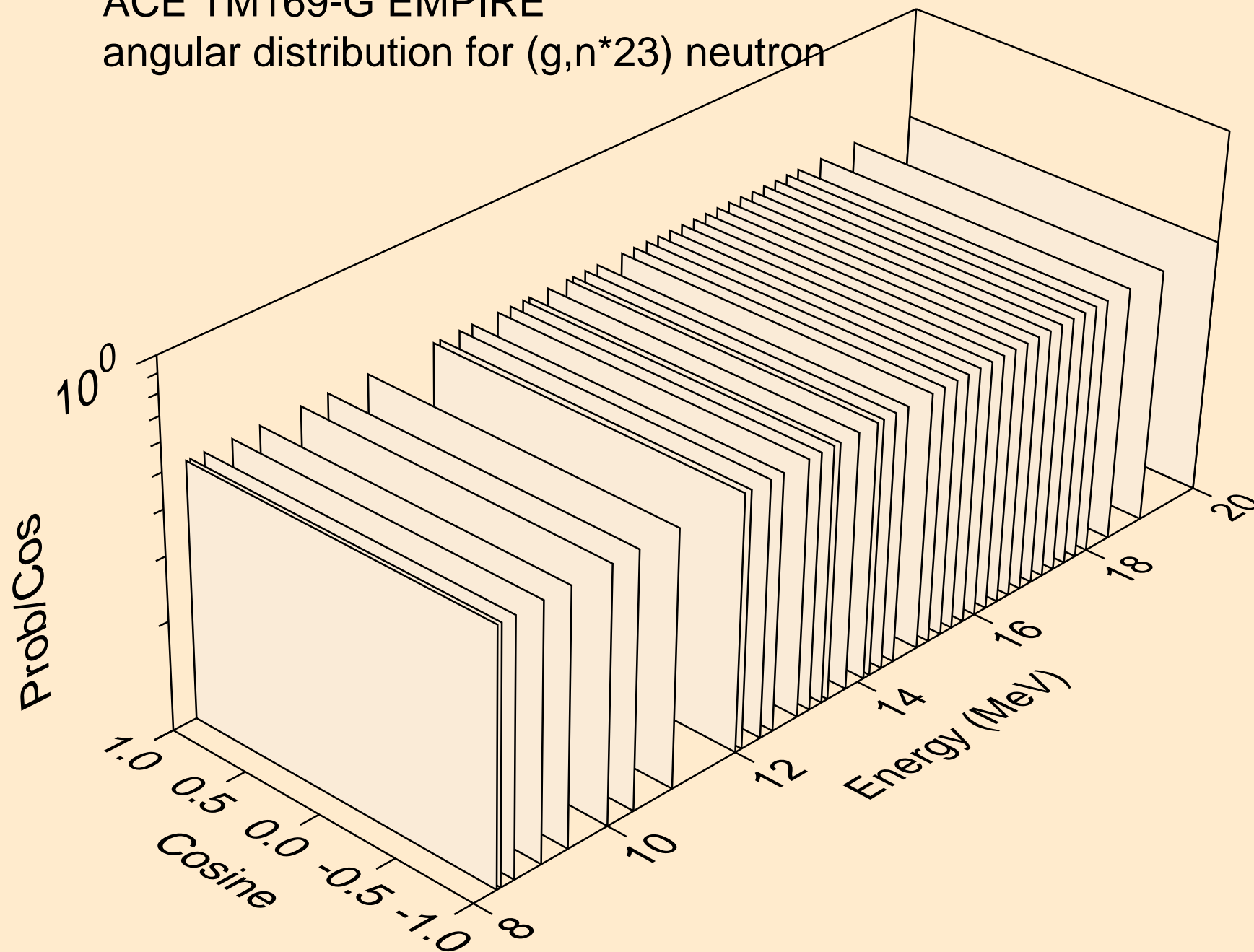


ACE TM169-G EMPIRE
angular distribution for (g,n*22) neutron



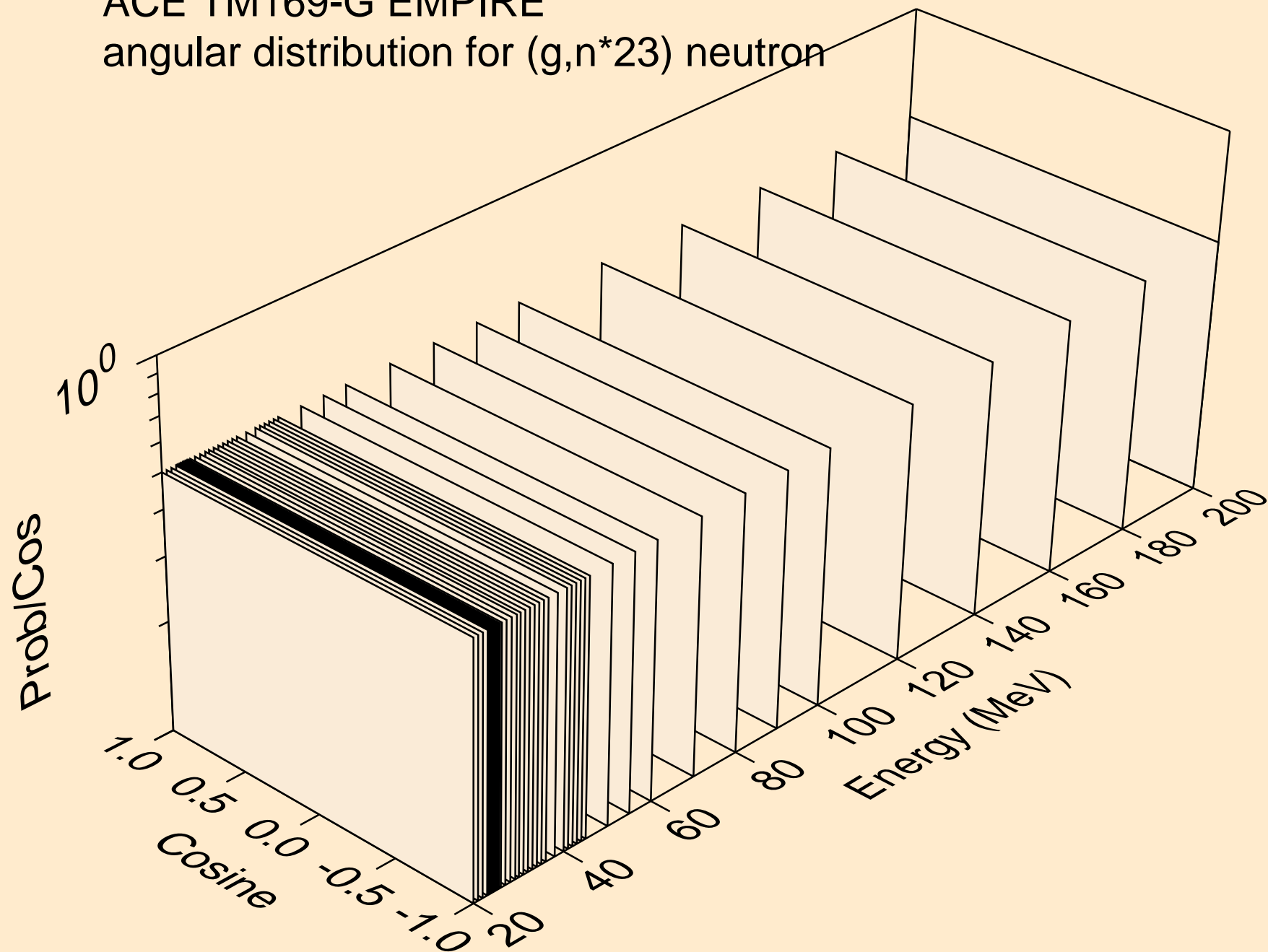
ACE TM169-G EMPIRE

angular distribution for (g,n*23) neutron



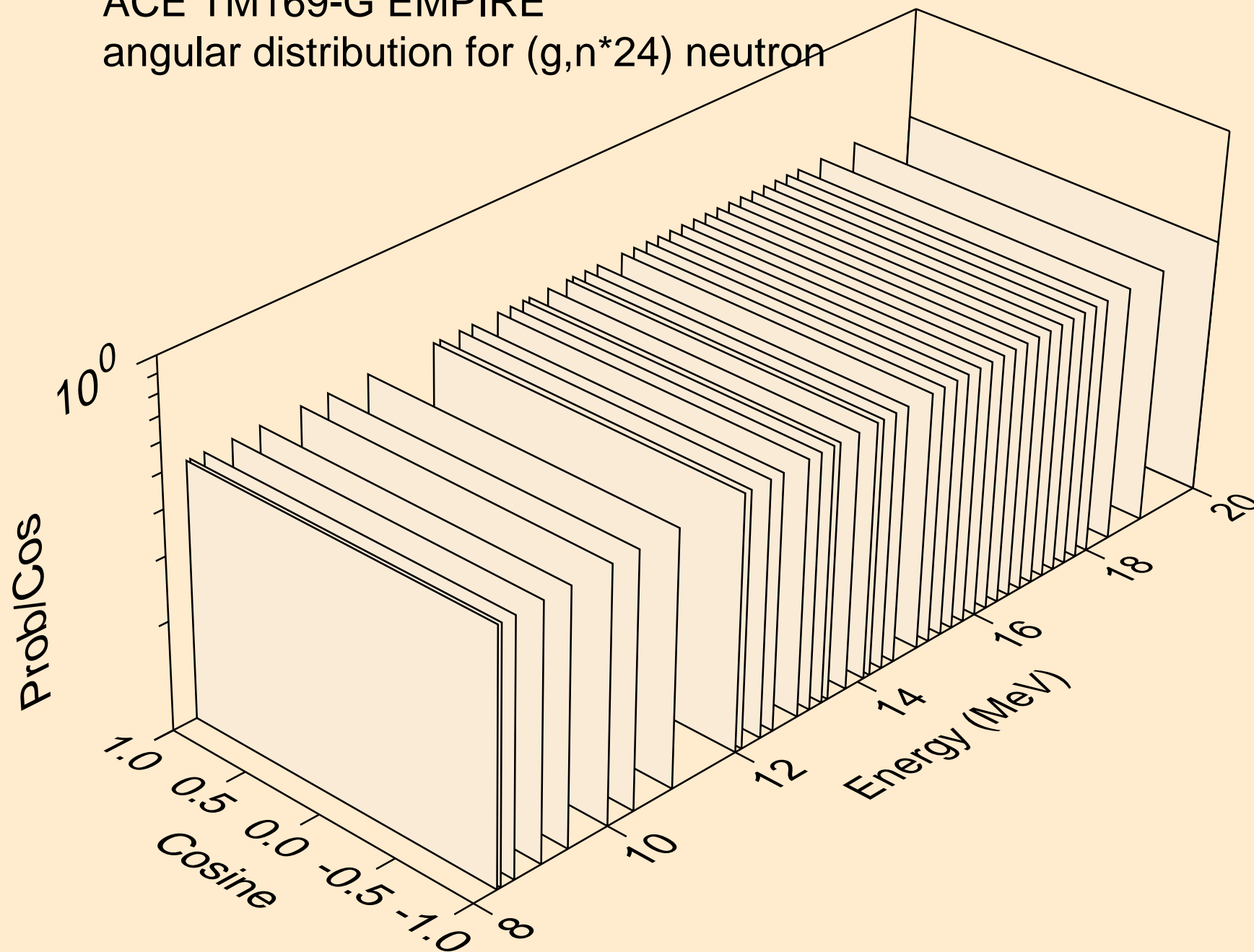
ACE TM169-G EMPIRE

angular distribution for (g,n*23) neutron

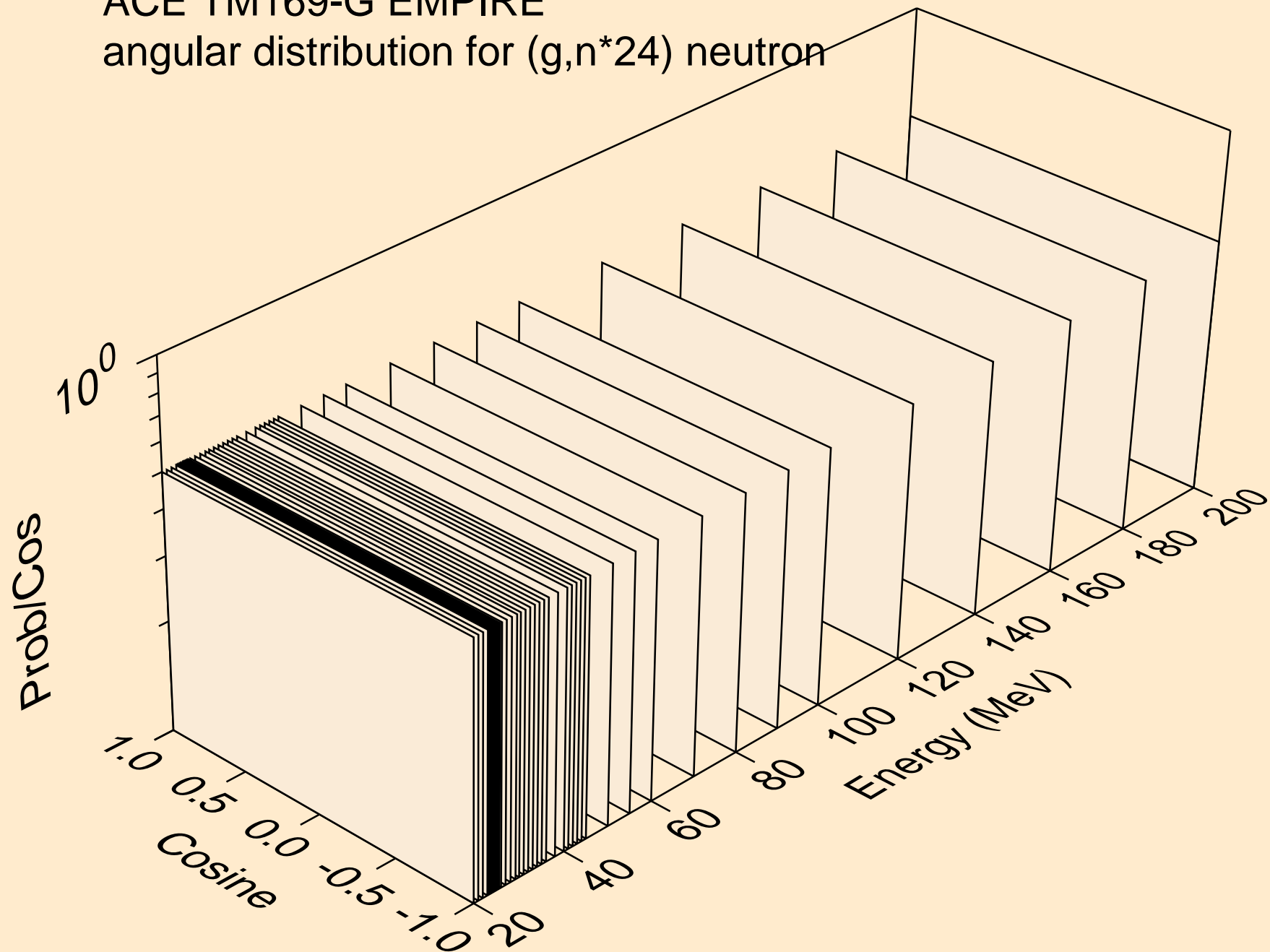


ACE TM169-G EMPIRE

angular distribution for (g,n*24) neutron

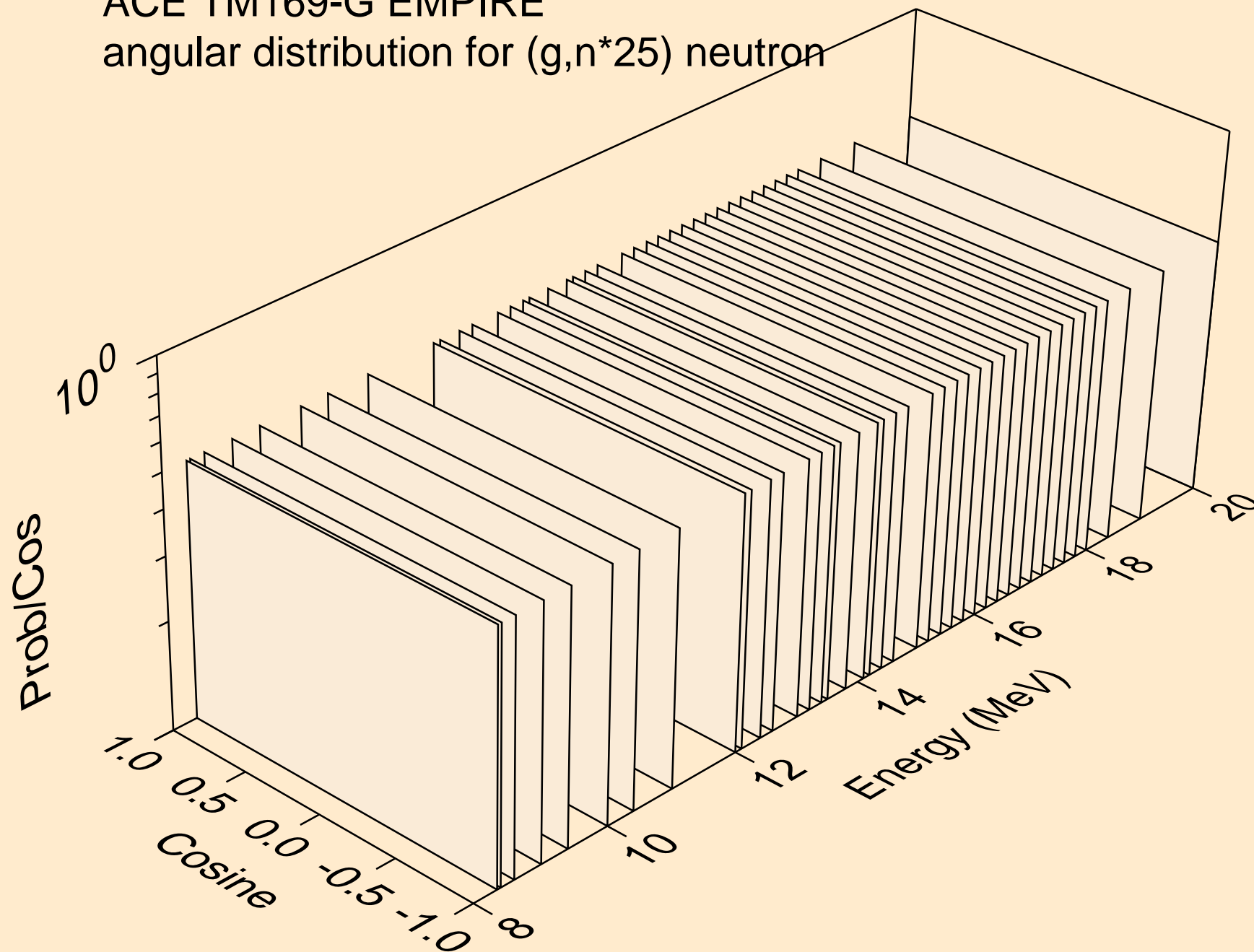


ACE TM169-G EMPIRE
angular distribution for (g,n*24) neutron

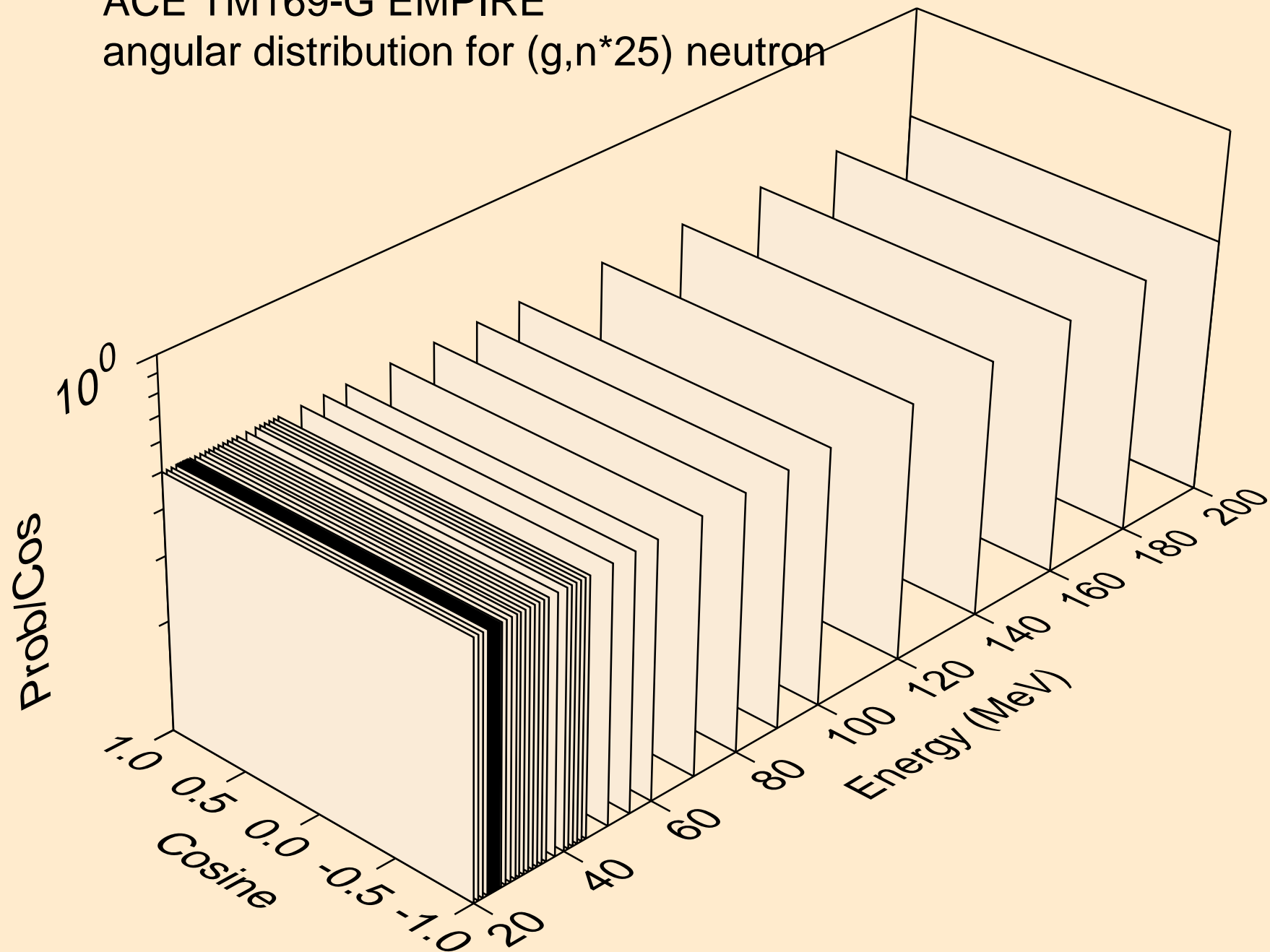


ACE TM169-G EMPIRE

angular distribution for (g,n*25) neutron

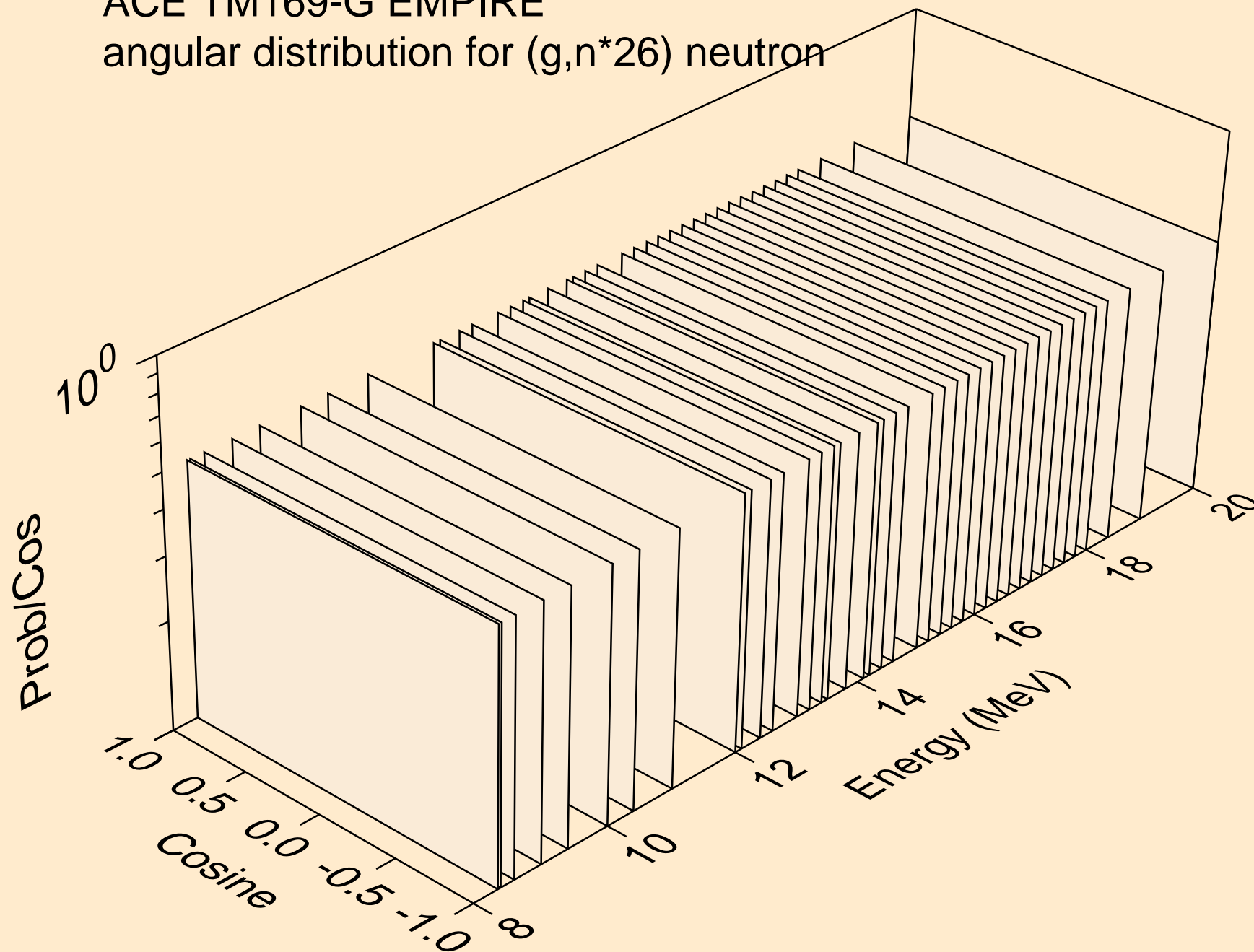


ACE TM169-G EMPIRE
angular distribution for (g,n*25) neutron



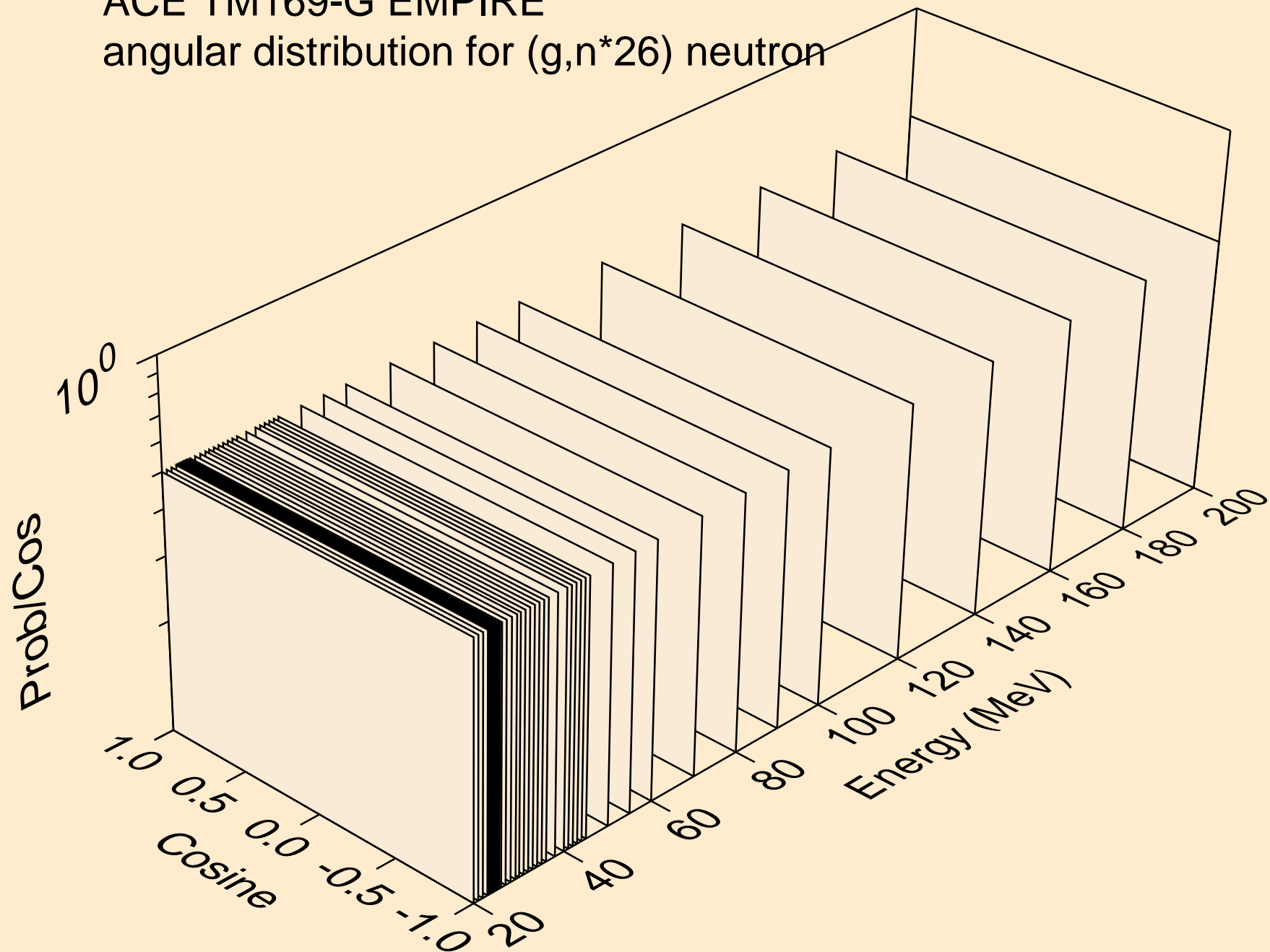
ACE TM169-G EMPIRE

angular distribution for (g,n*26) neutron



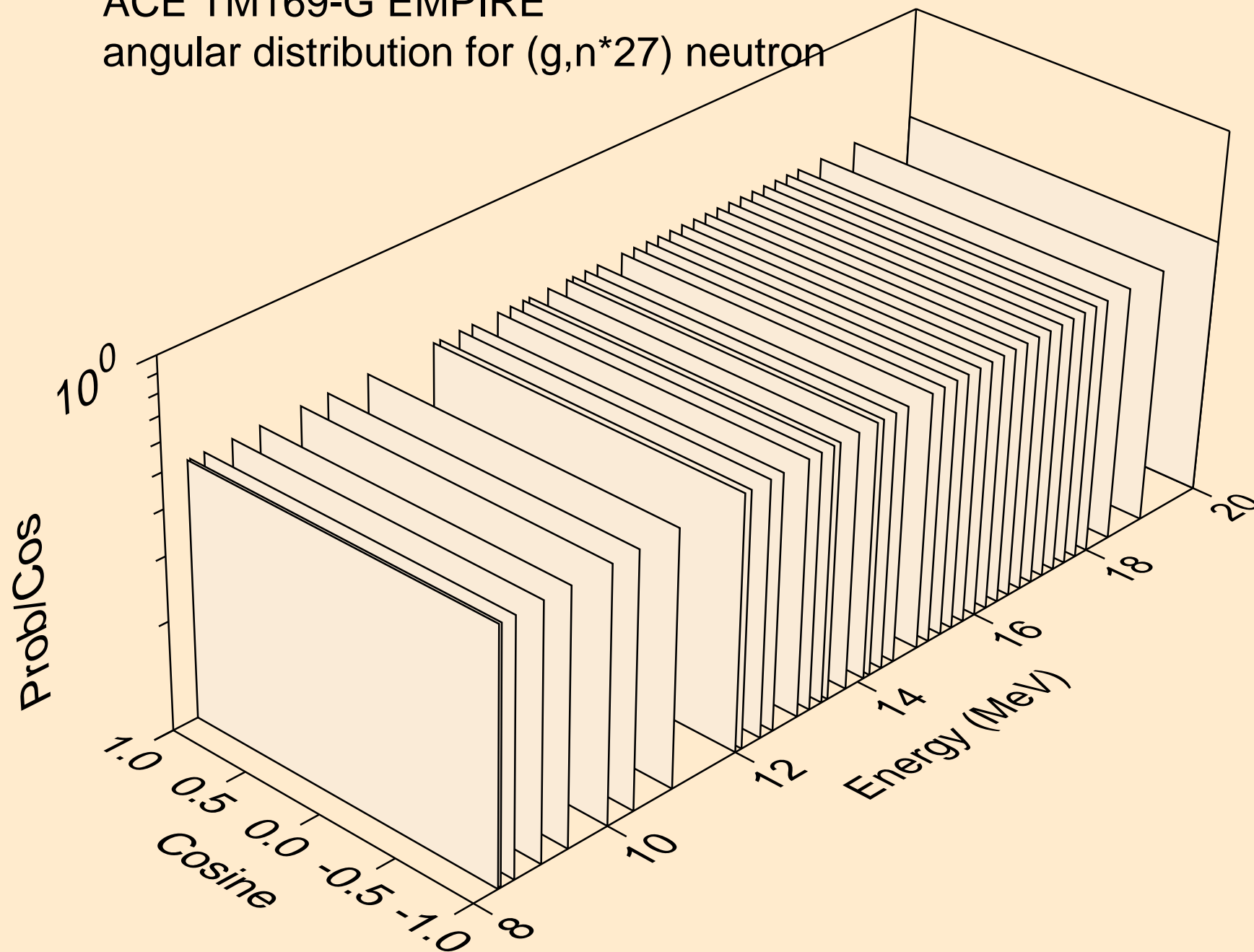
ACE TM169-G EMPIRE

angular distribution for (g,n*26) neutron



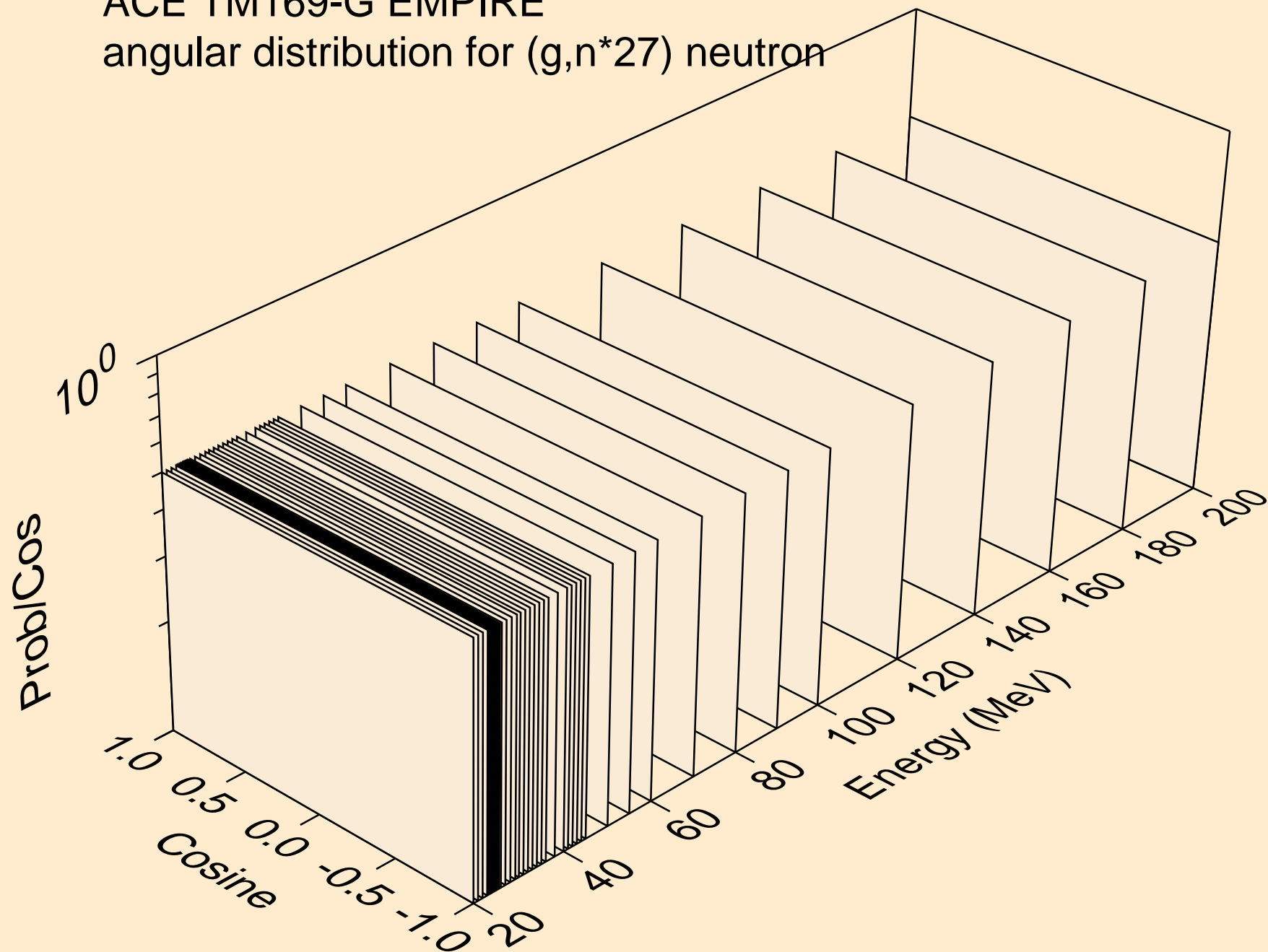
ACE TM169-G EMPIRE

angular distribution for (g,n*27) neutron



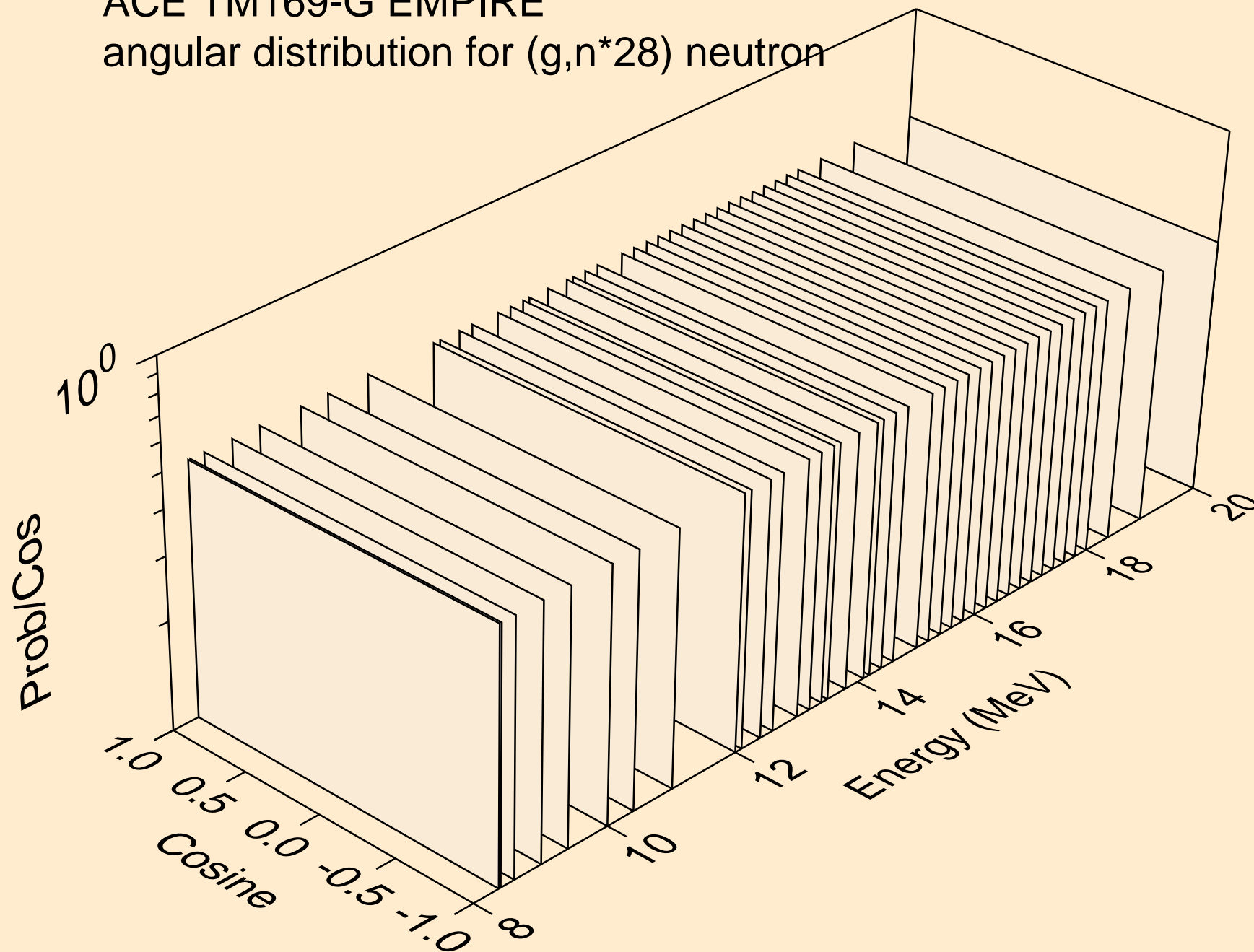
ACE TM169-G EMPIRE

angular distribution for (g,n*27) neutron



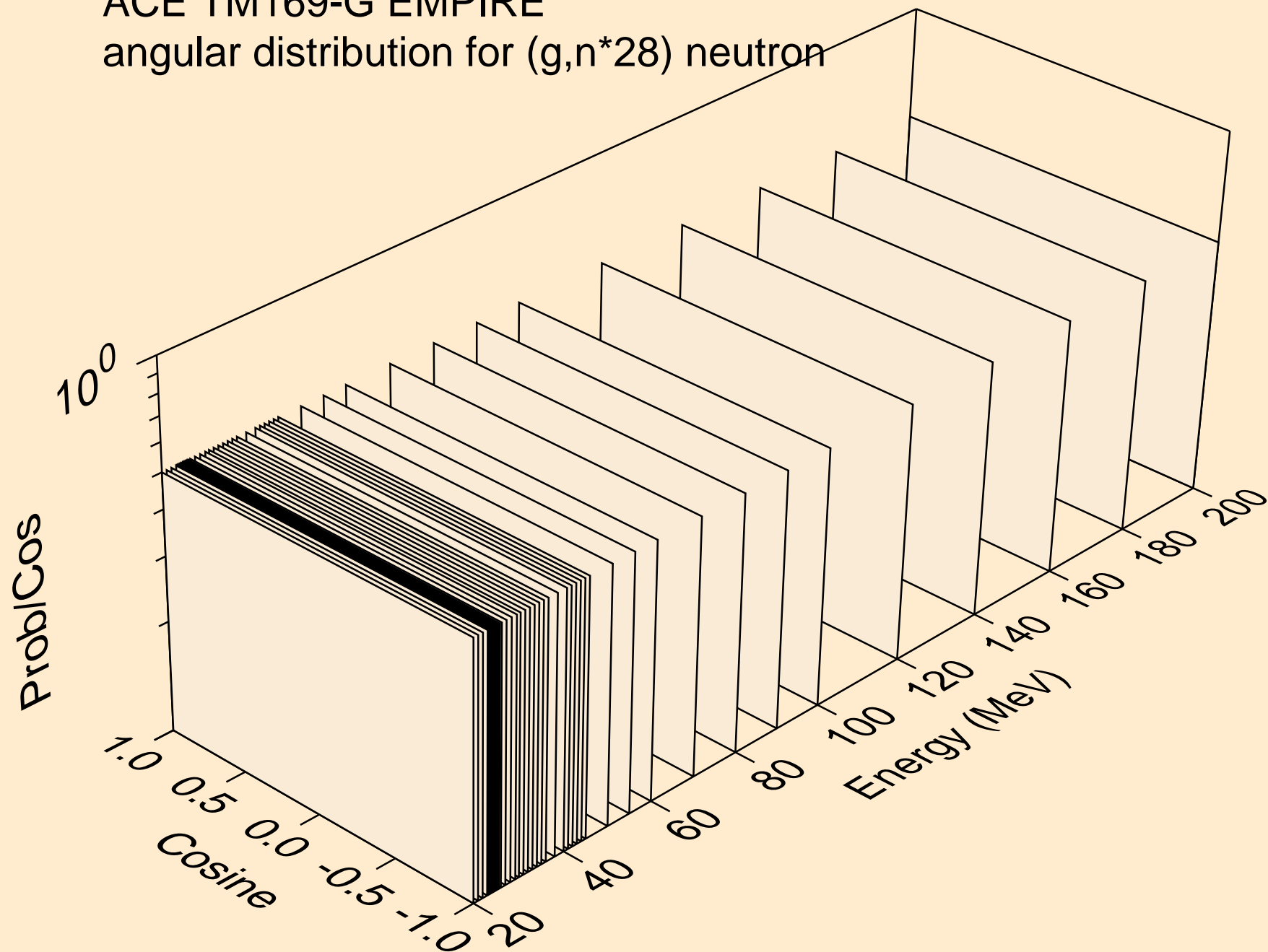
ACE TM169-G EMPIRE

angular distribution for (g,n*28) neutron



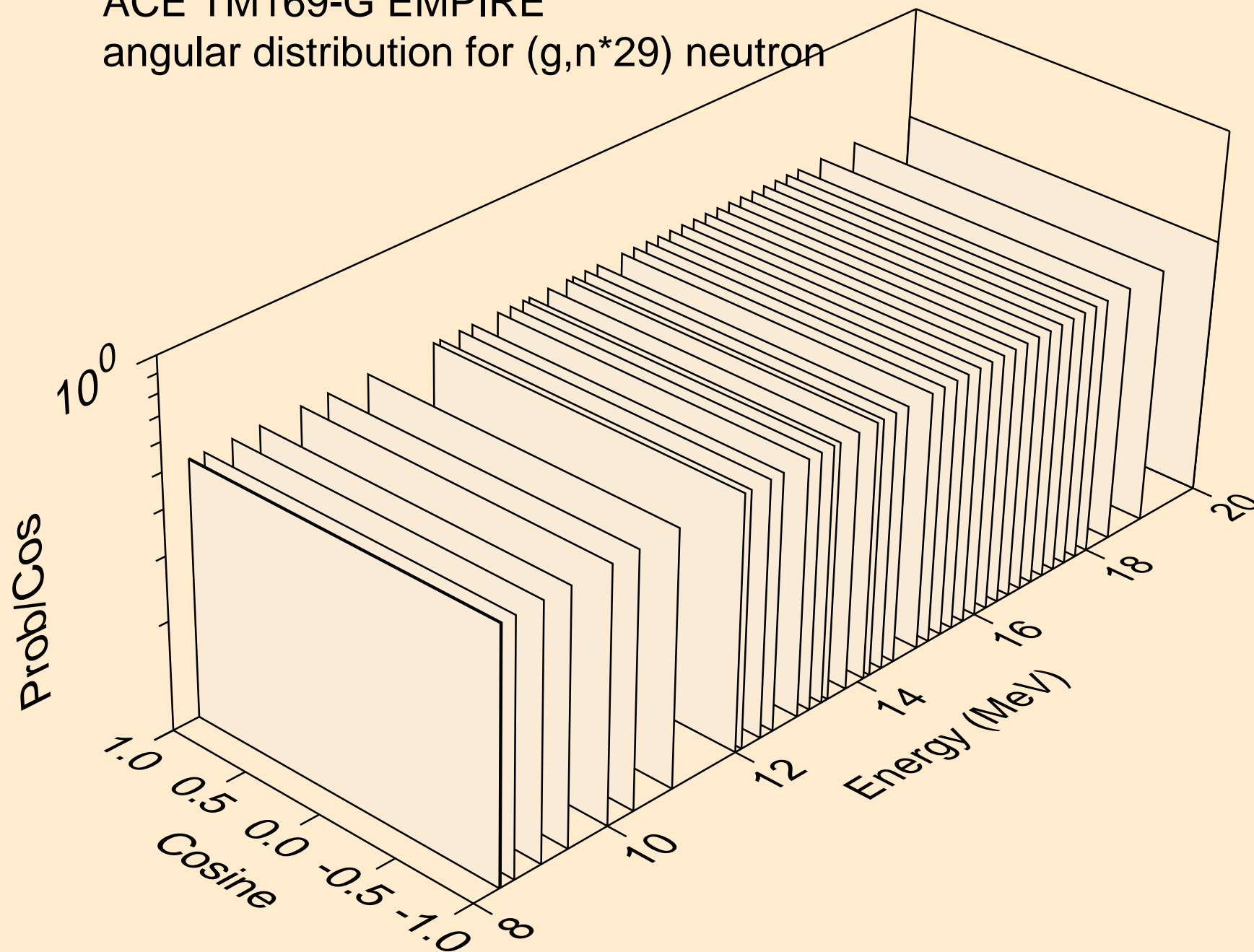
ACE TM169-G EMPIRE

angular distribution for (g,n*28) neutron

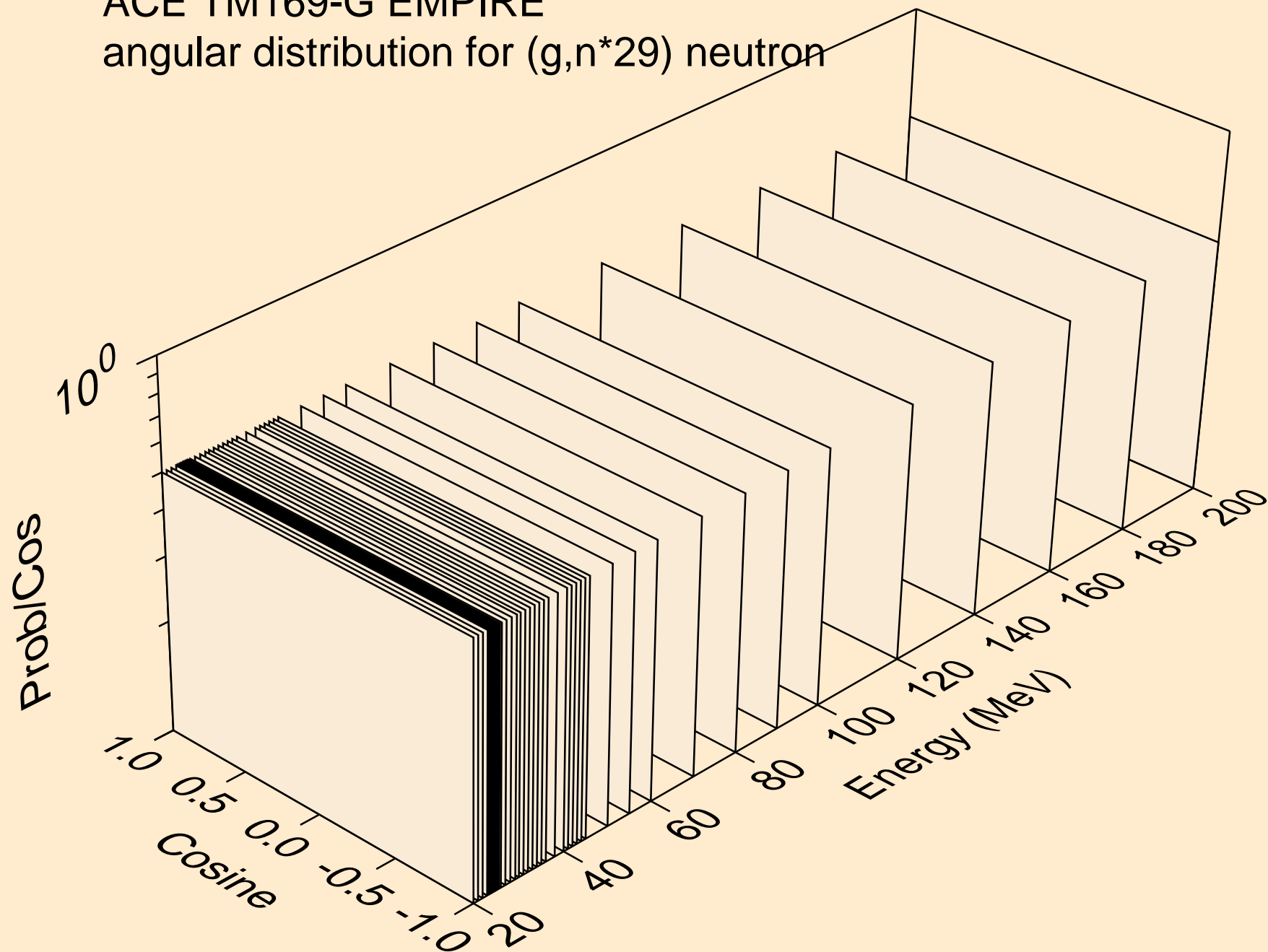


ACE TM169-G EMPIRE

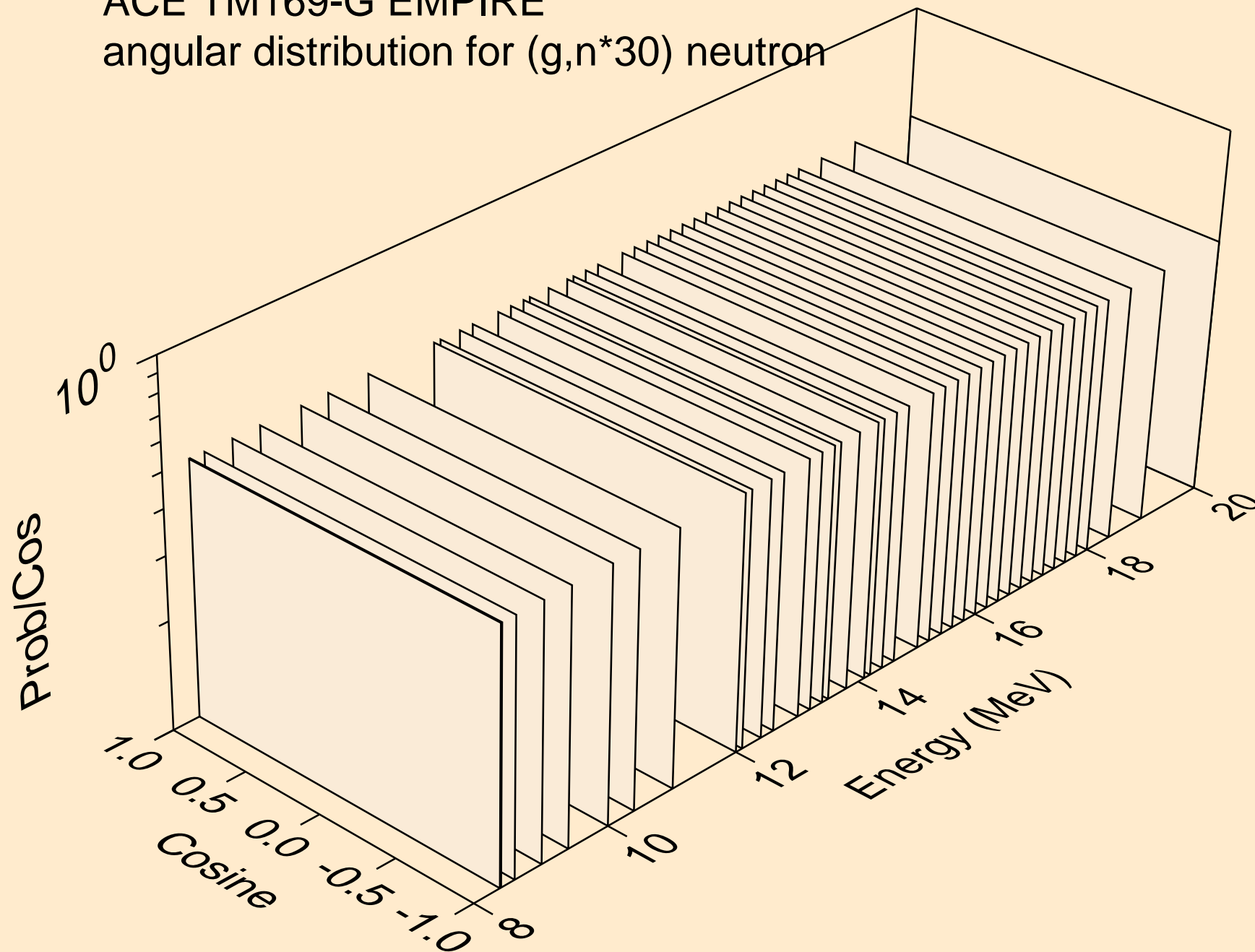
angular distribution for (g,n*29) neutron



ACE TM169-G EMPIRE
angular distribution for (g,n*29) neutron

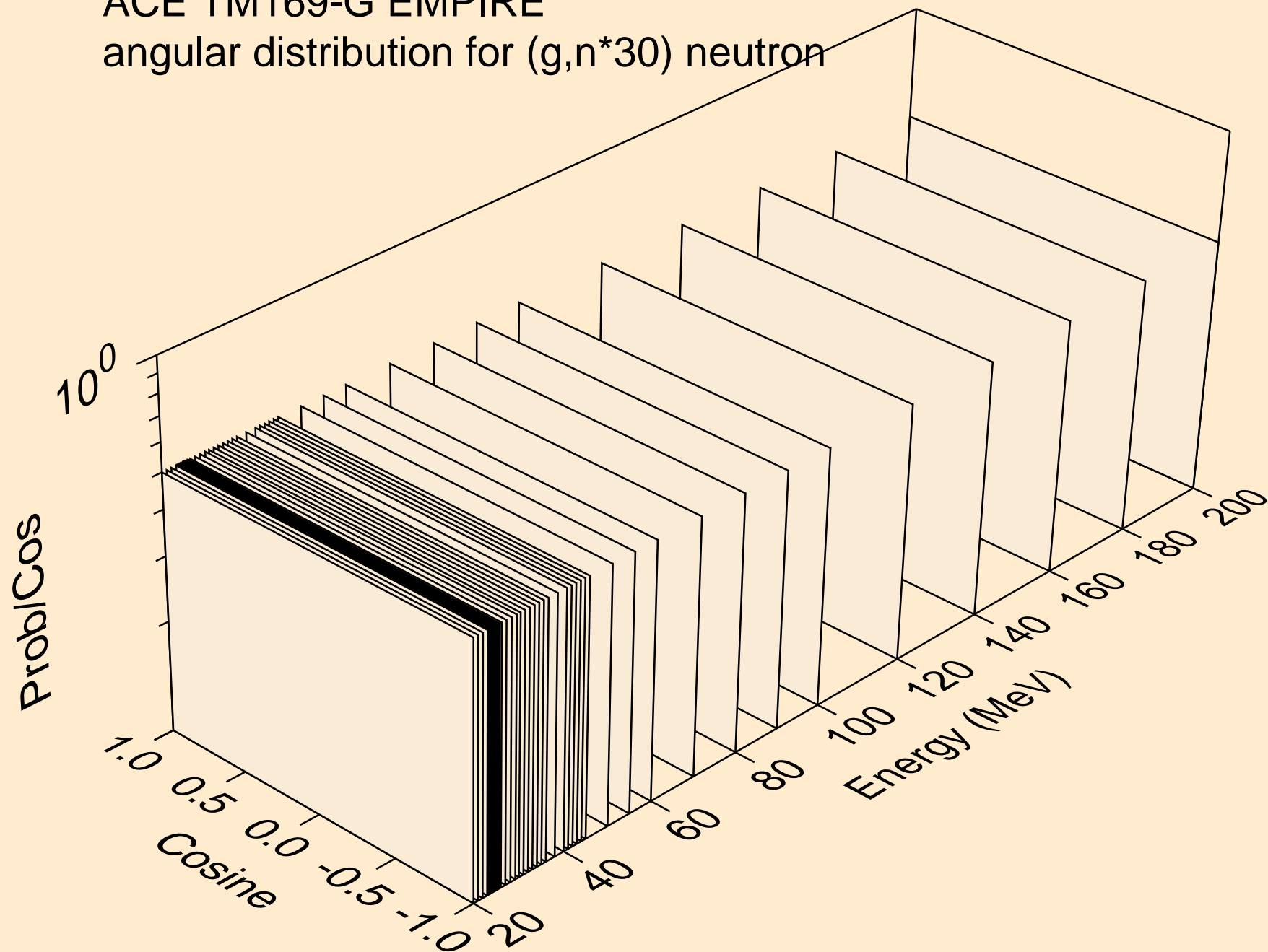


ACE TM169-G EMPIRE
angular distribution for (g,n*30) neutron



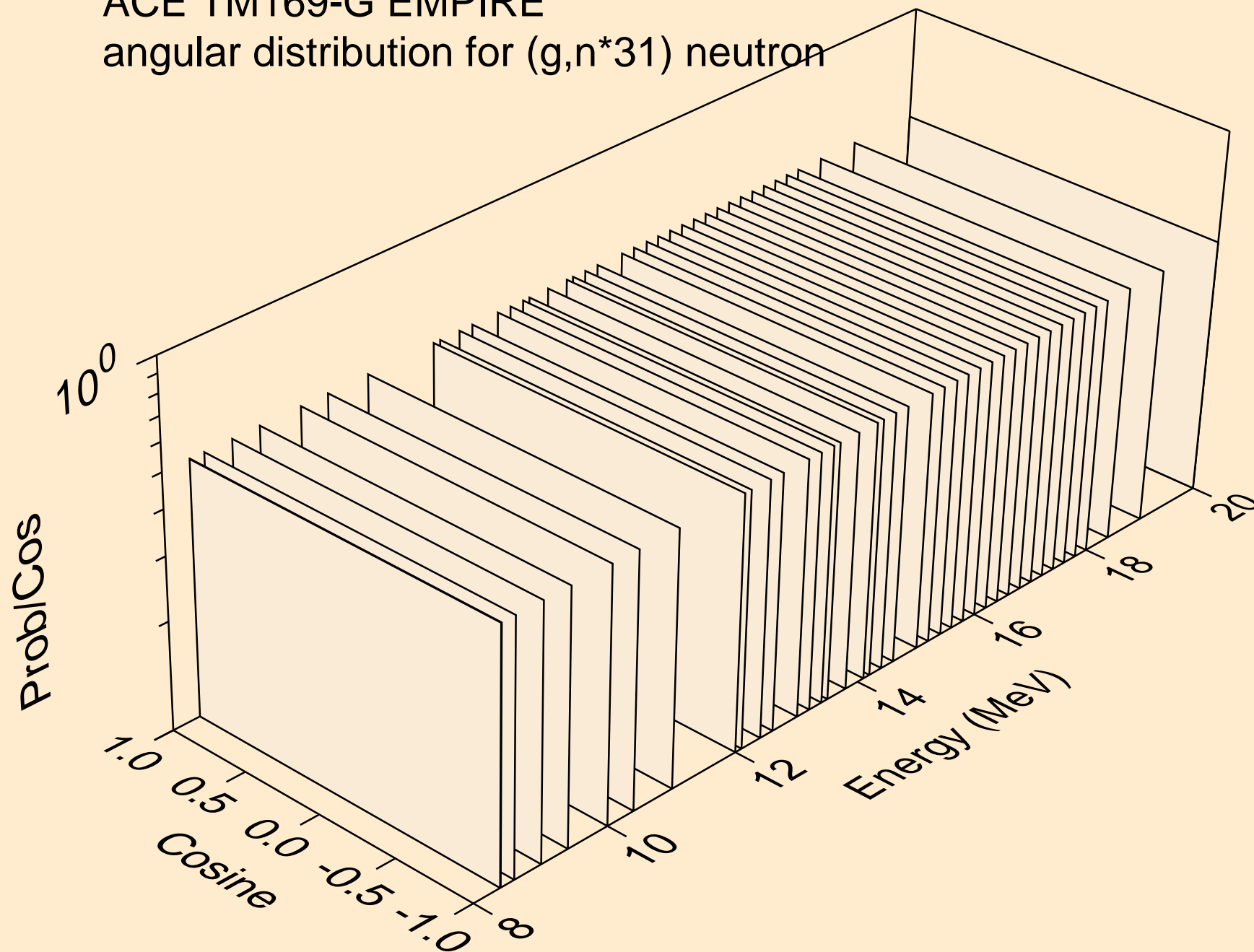
ACE TM169-G EMPIRE

angular distribution for (g,n*30) neutron



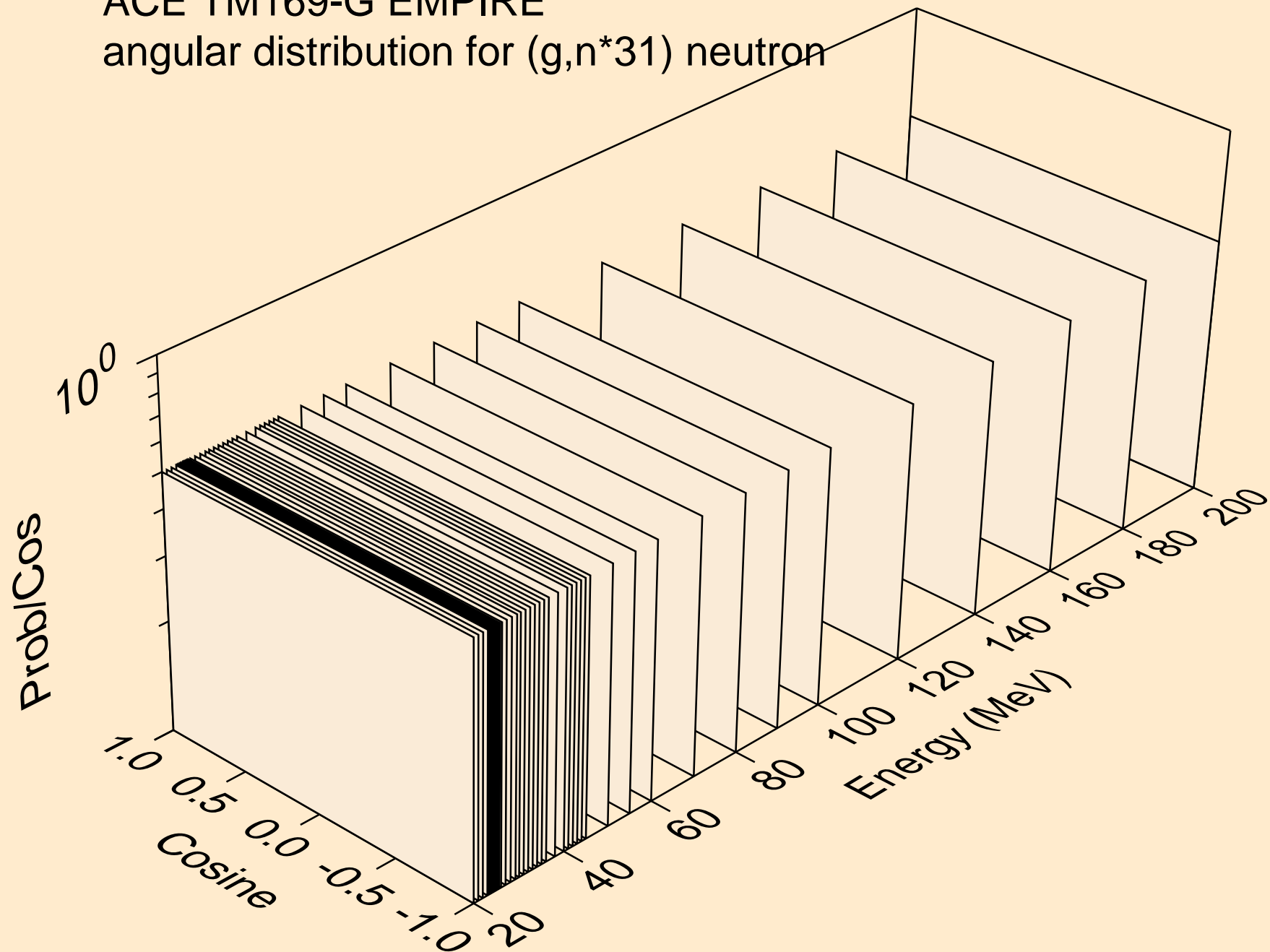
ACE TM169-G EMPIRE

angular distribution for (g,n*31) neutron



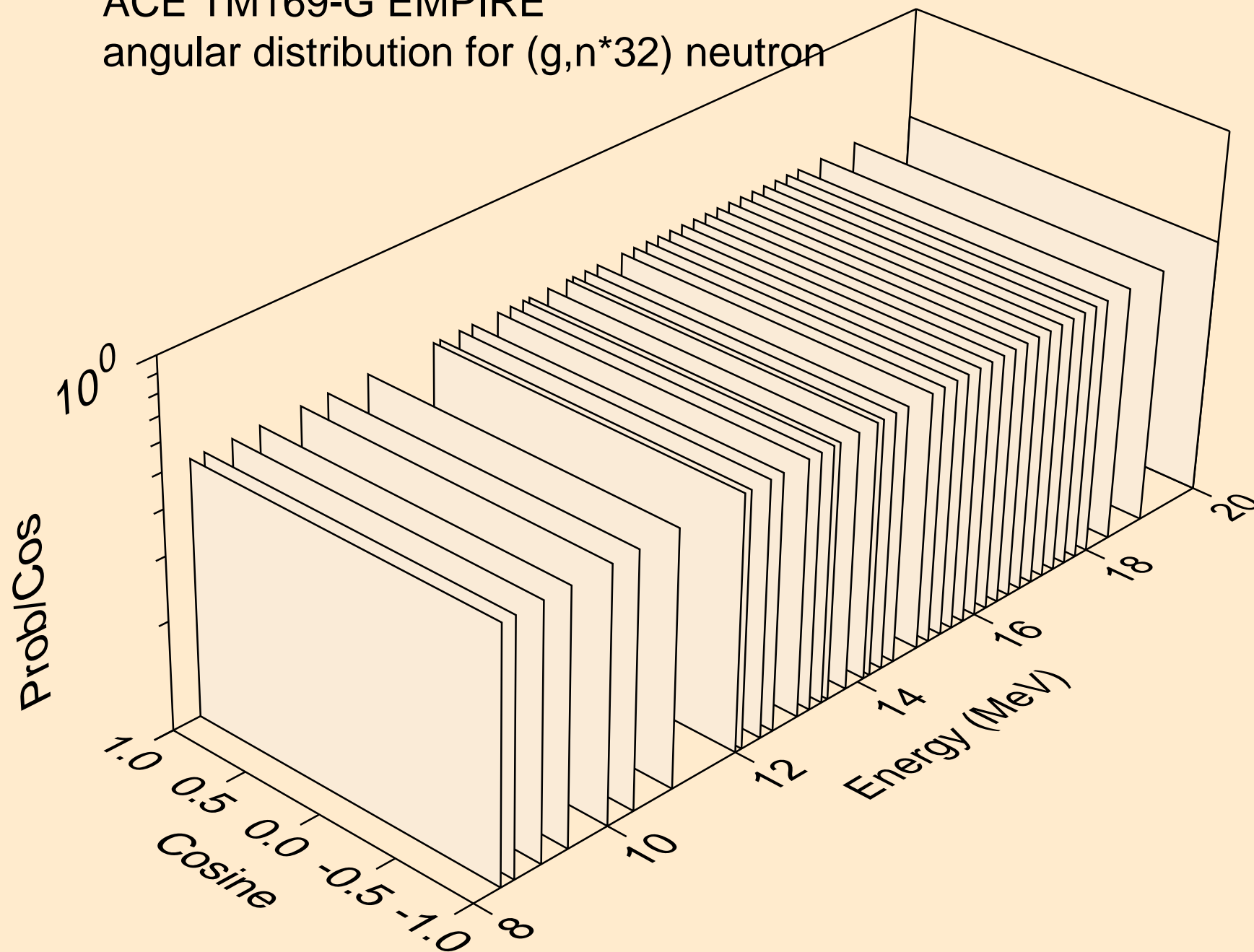
ACE TM169-G EMPIRE

angular distribution for (g,n*31) neutron



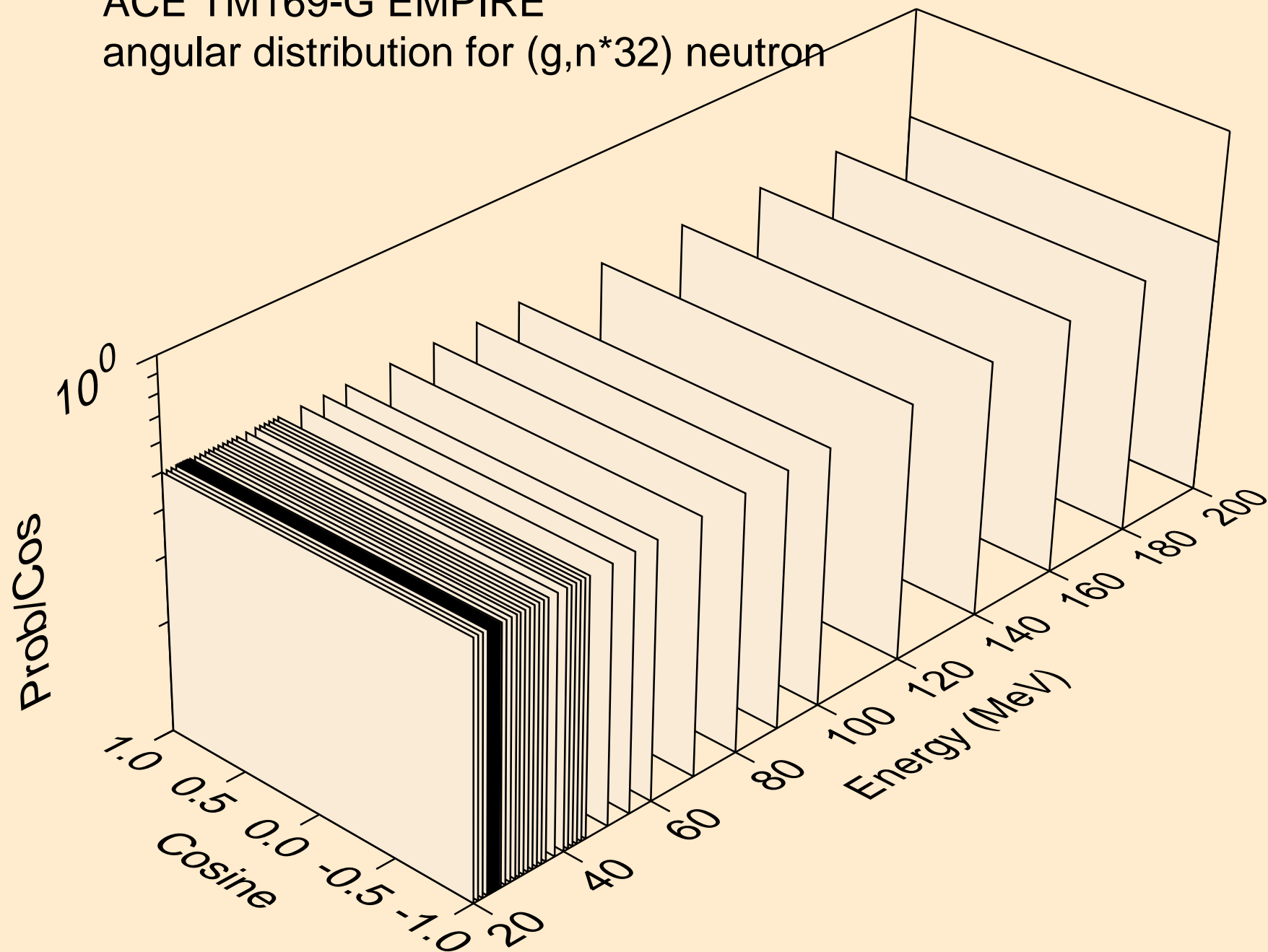
ACE TM169-G EMPIRE

angular distribution for (g,n*32) neutron



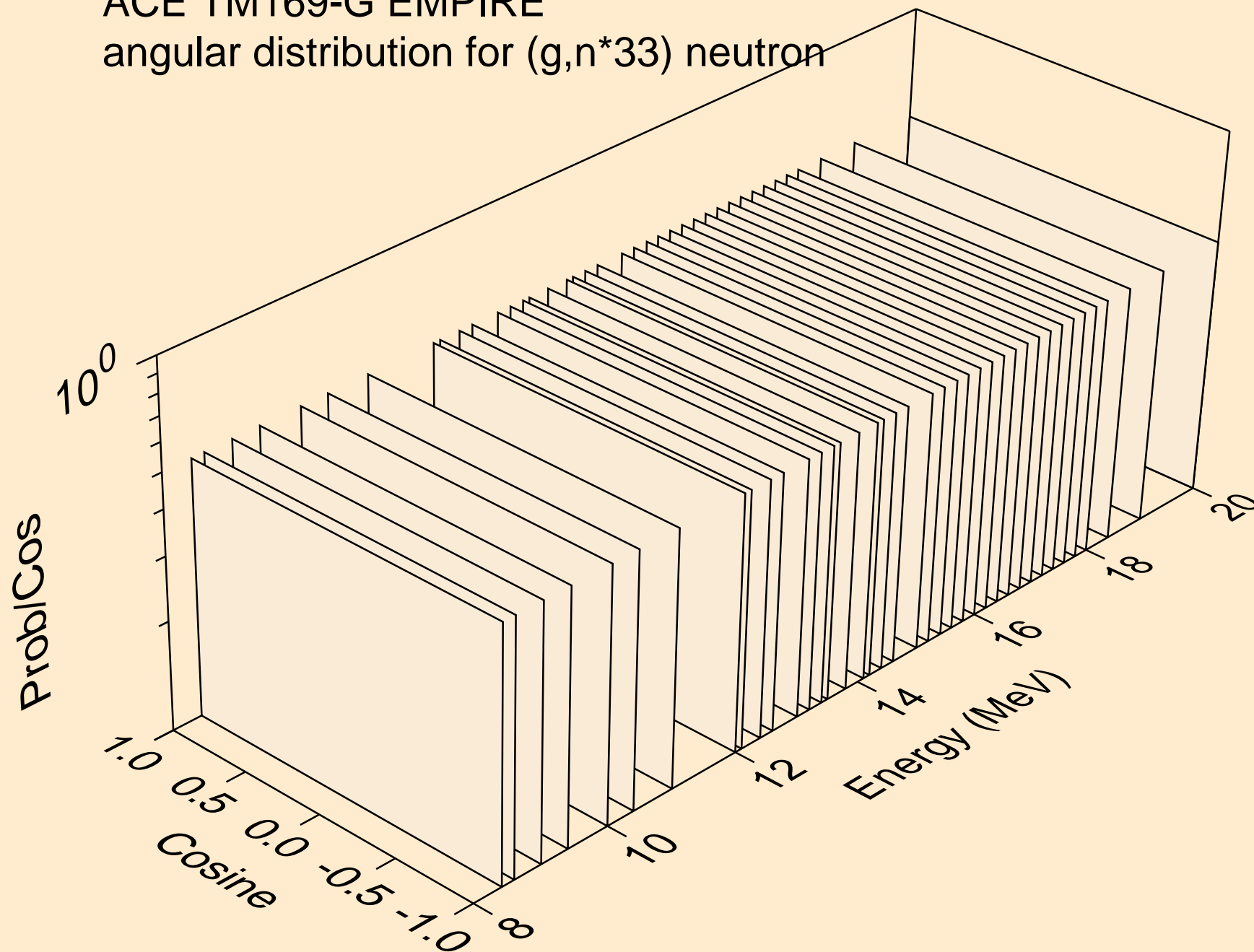
ACE TM169-G EMPIRE

angular distribution for (g,n*32) neutron



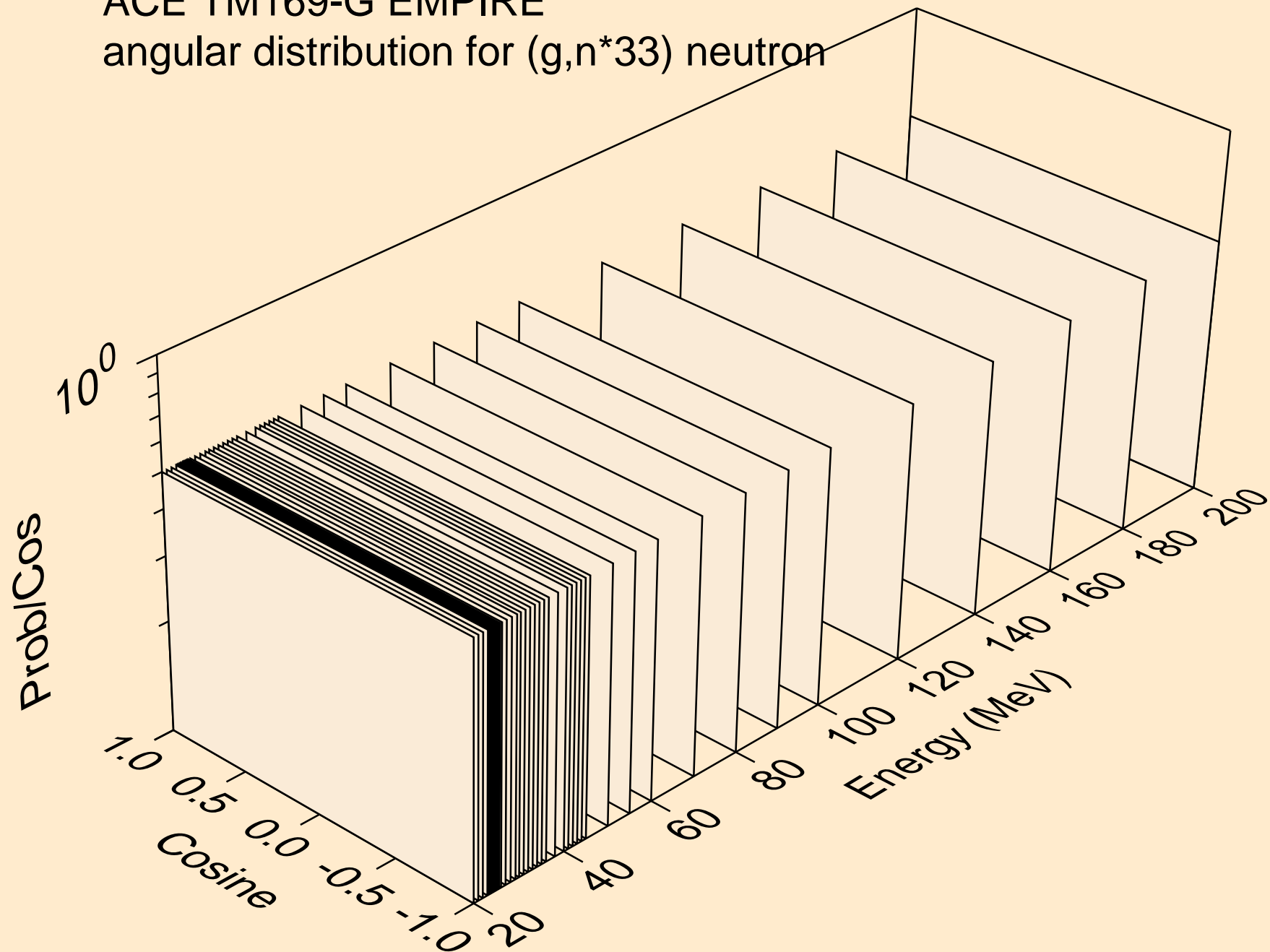
ACE TM169-G EMPIRE

angular distribution for (g,n*33) neutron

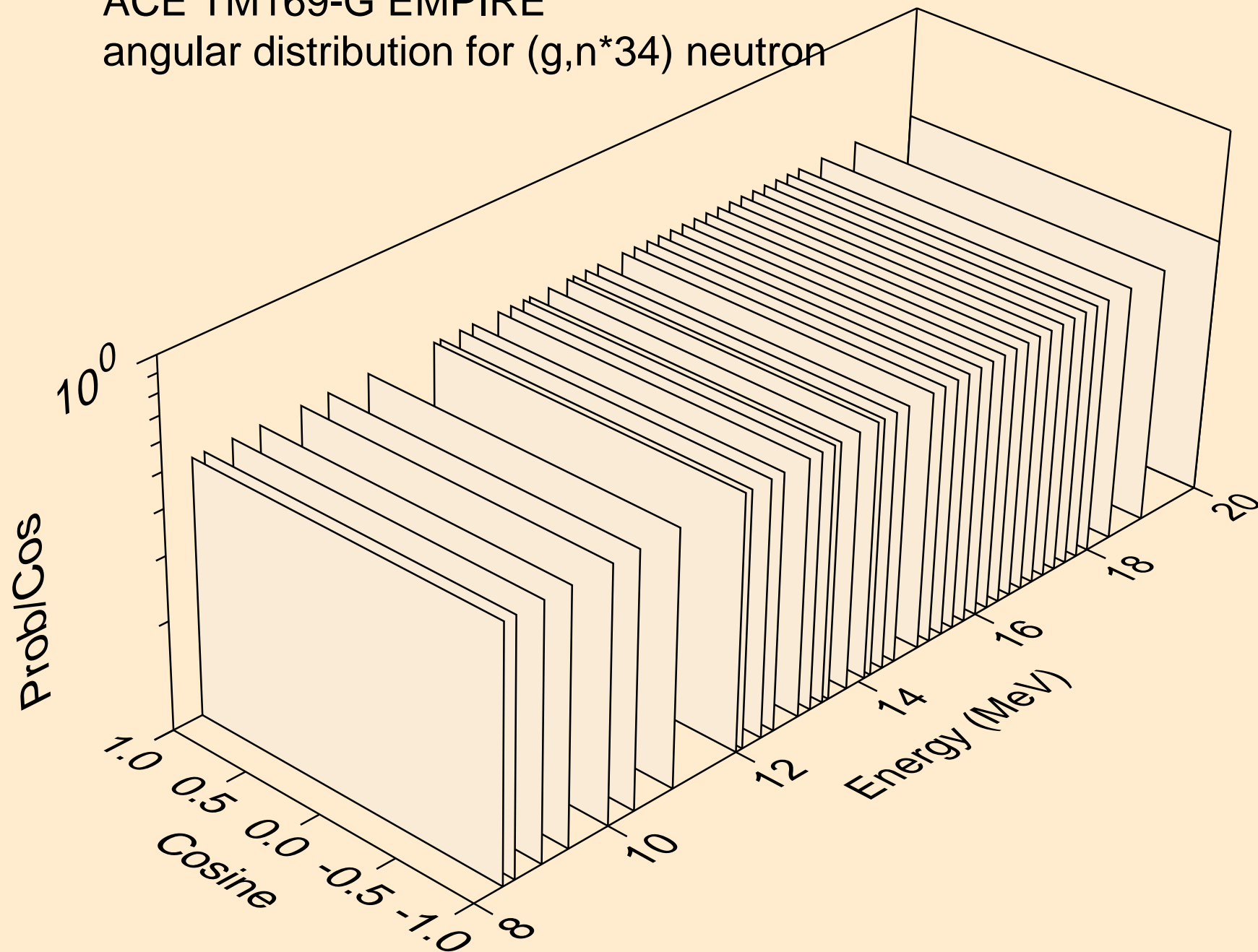


ACE TM169-G EMPIRE

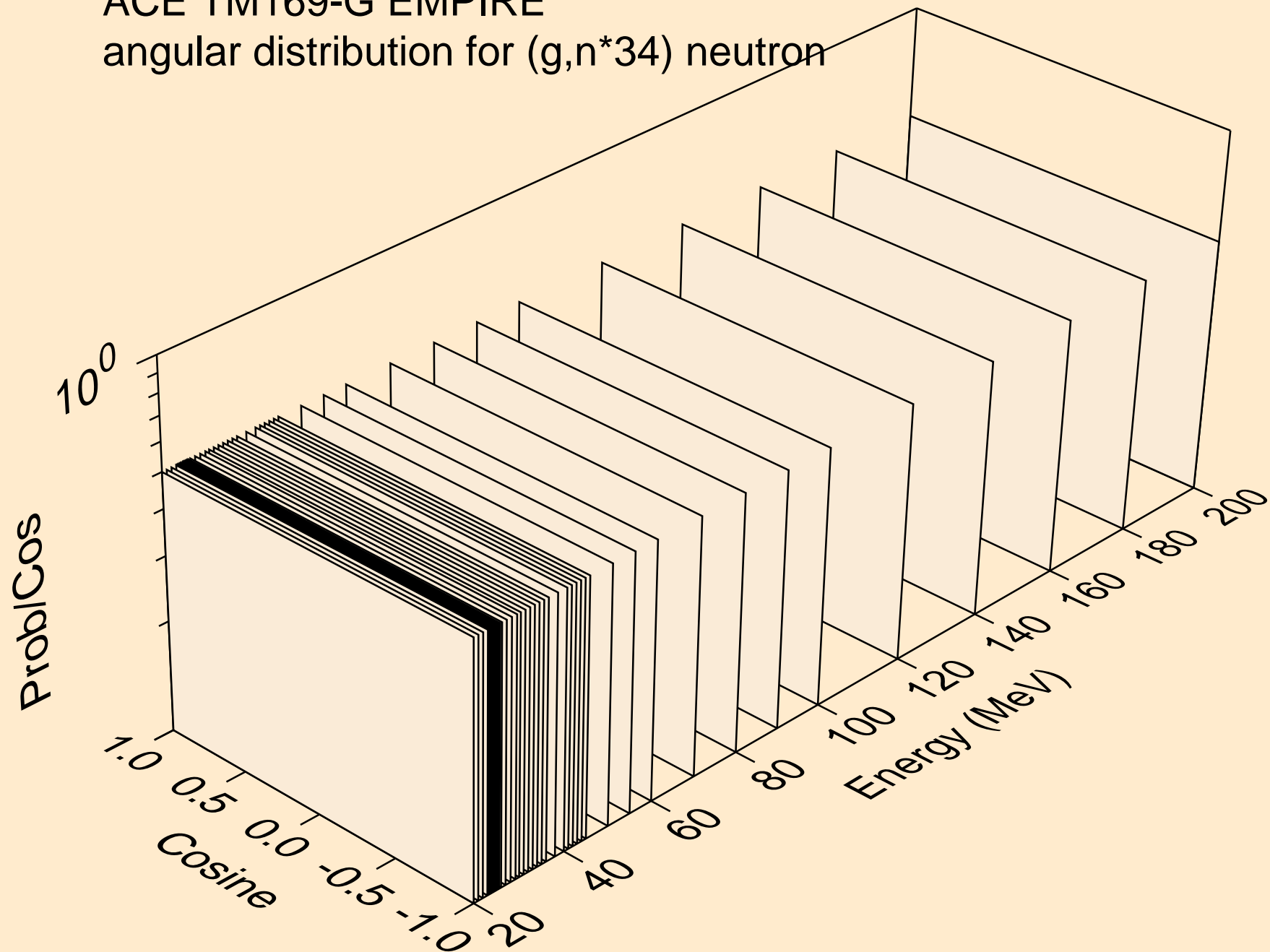
angular distribution for (g,n*33) neutron



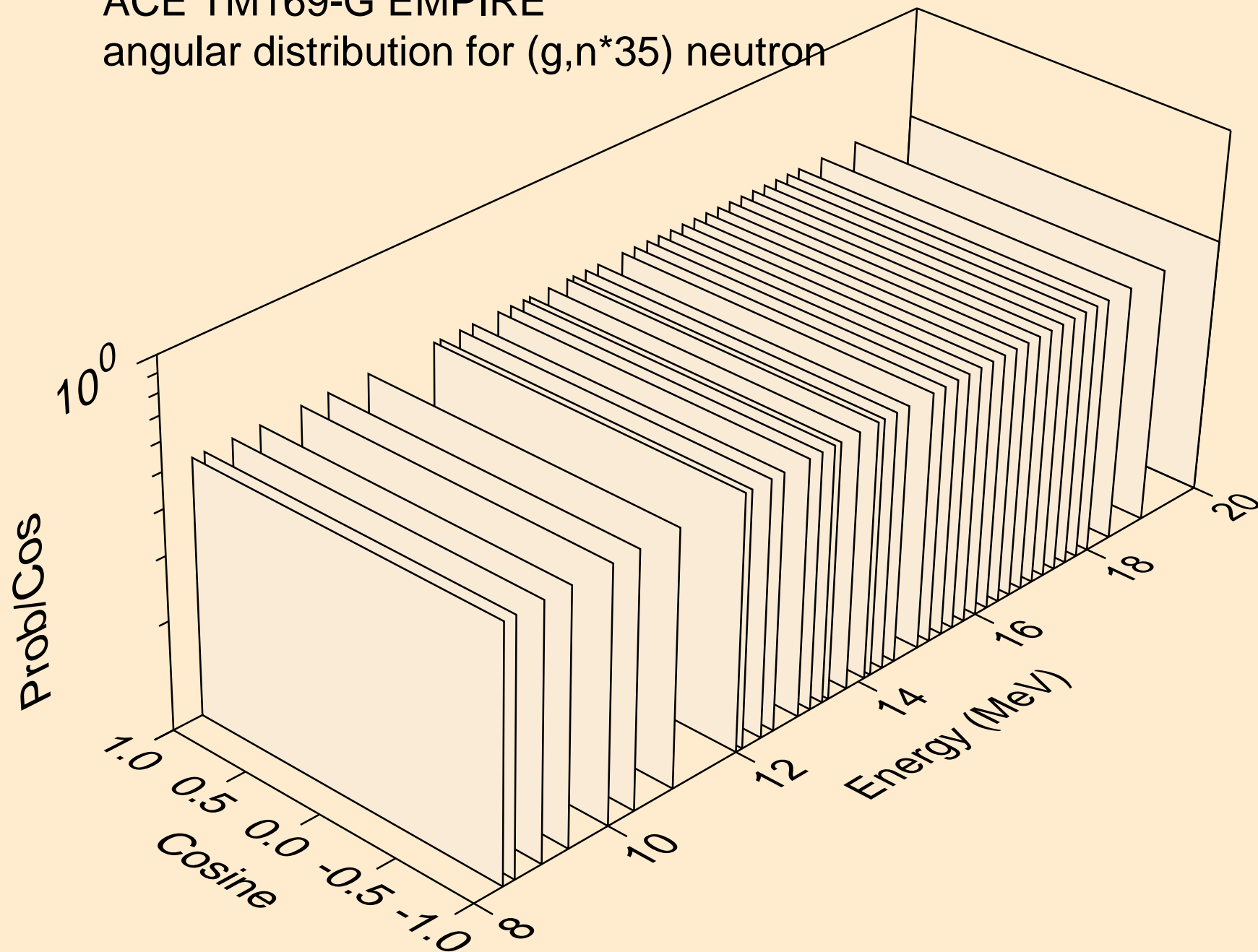
ACE TM169-G EMPIRE
angular distribution for (g,n*34) neutron



ACE TM169-G EMPIRE
angular distribution for (g,n*34) neutron

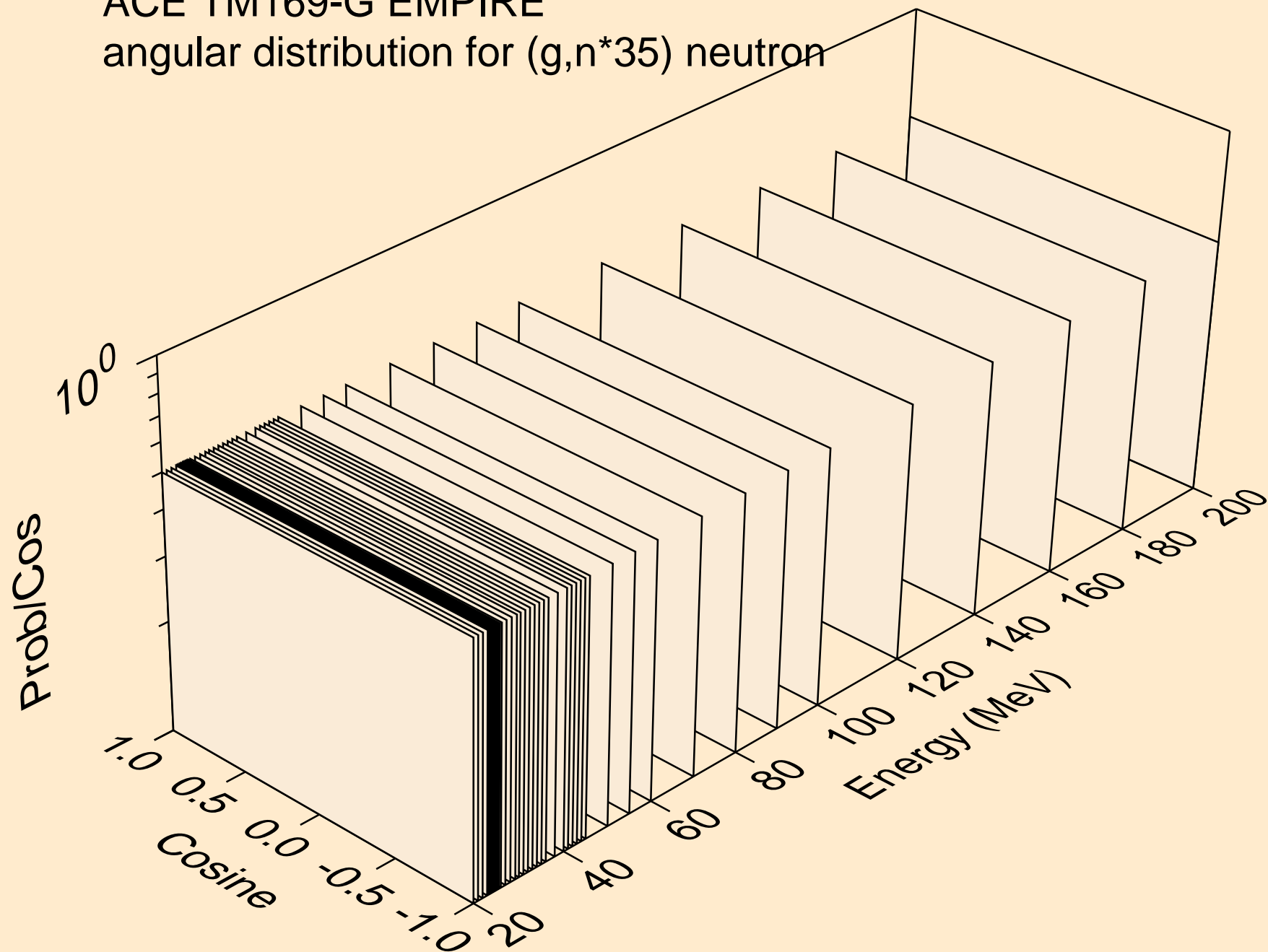


ACE TM169-G EMPIRE
angular distribution for (g,n*35) neutron



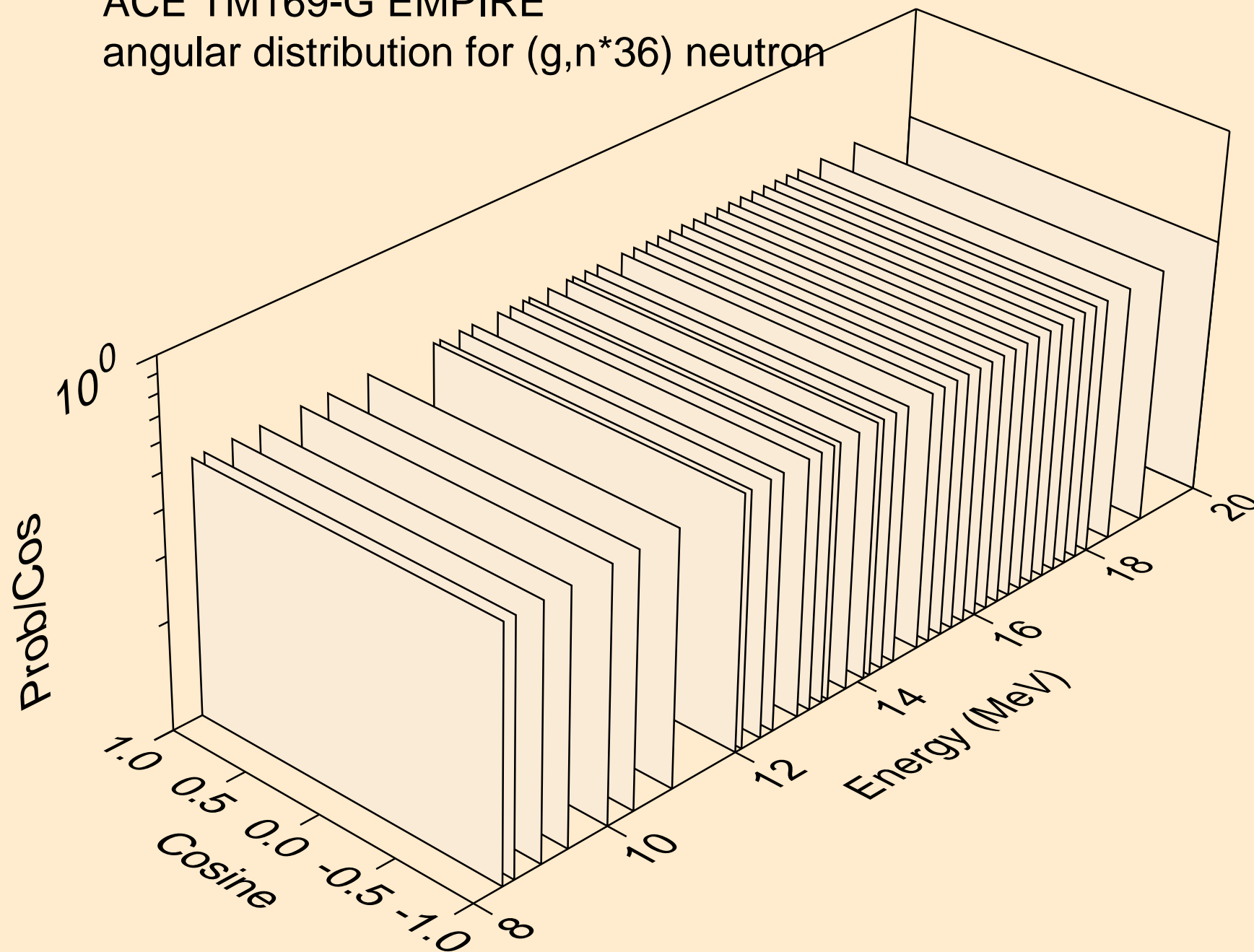
ACE TM169-G EMPIRE

angular distribution for (g,n*35) neutron

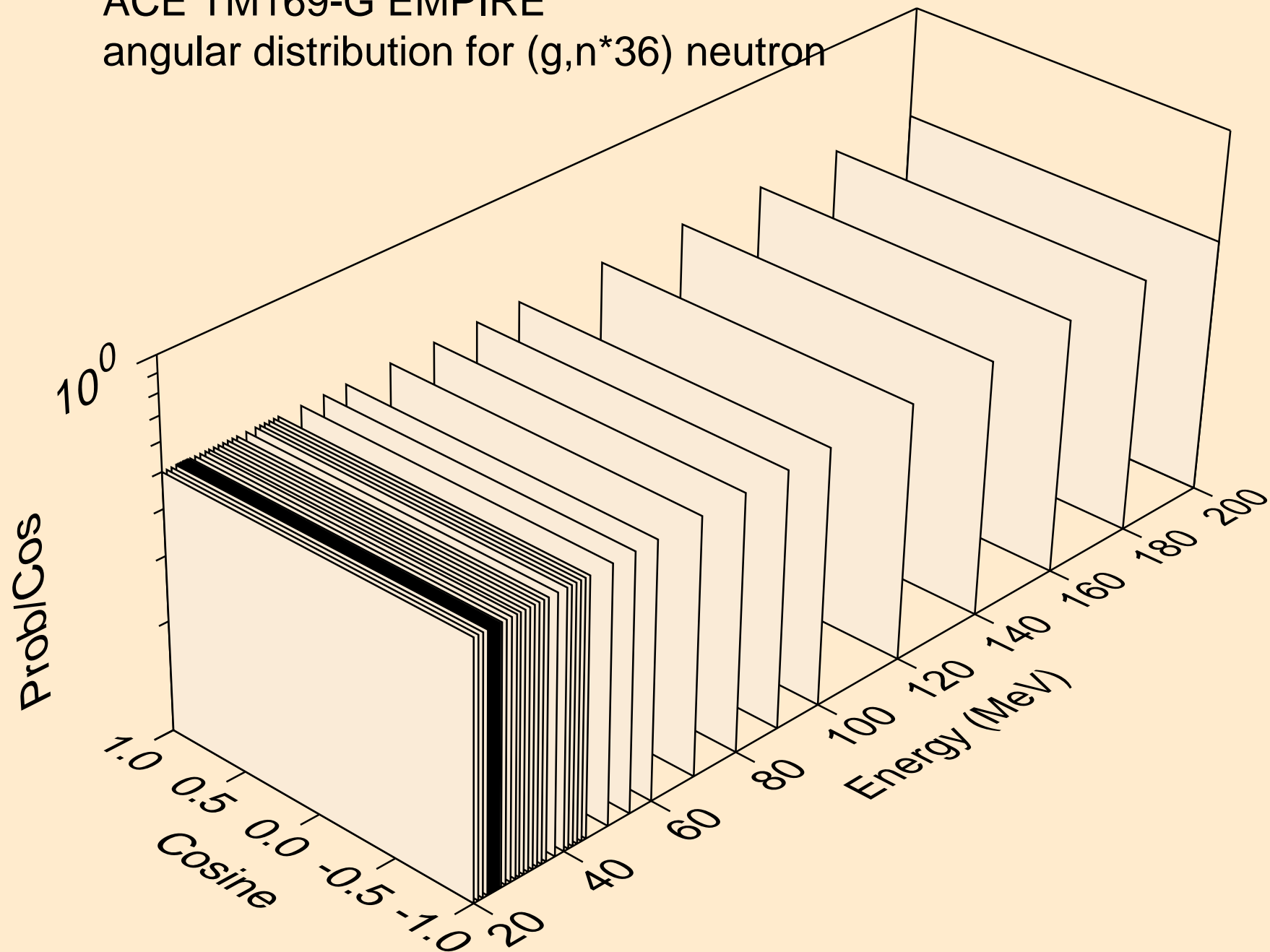


ACE TM169-G EMPIRE

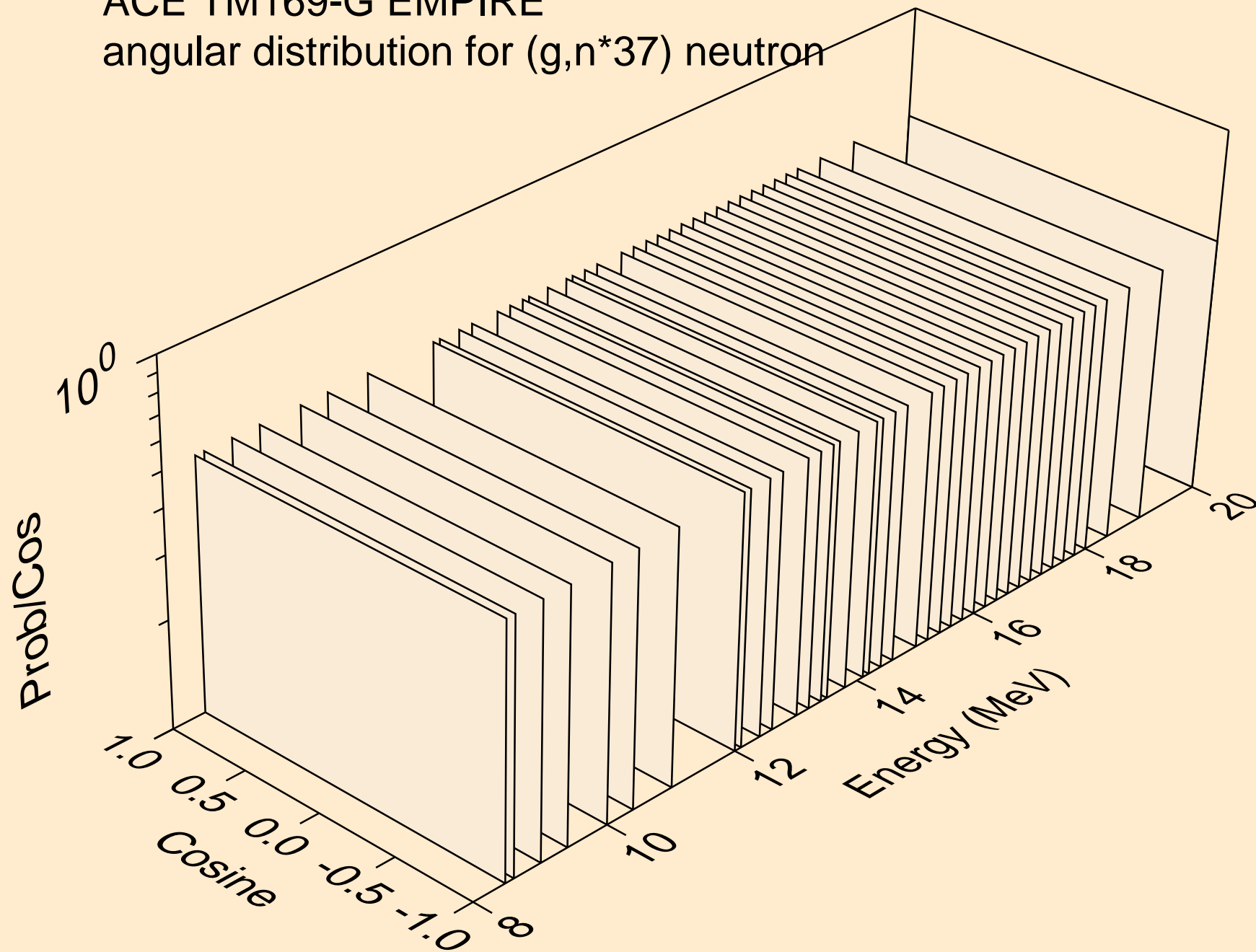
angular distribution for (g,n*36) neutron



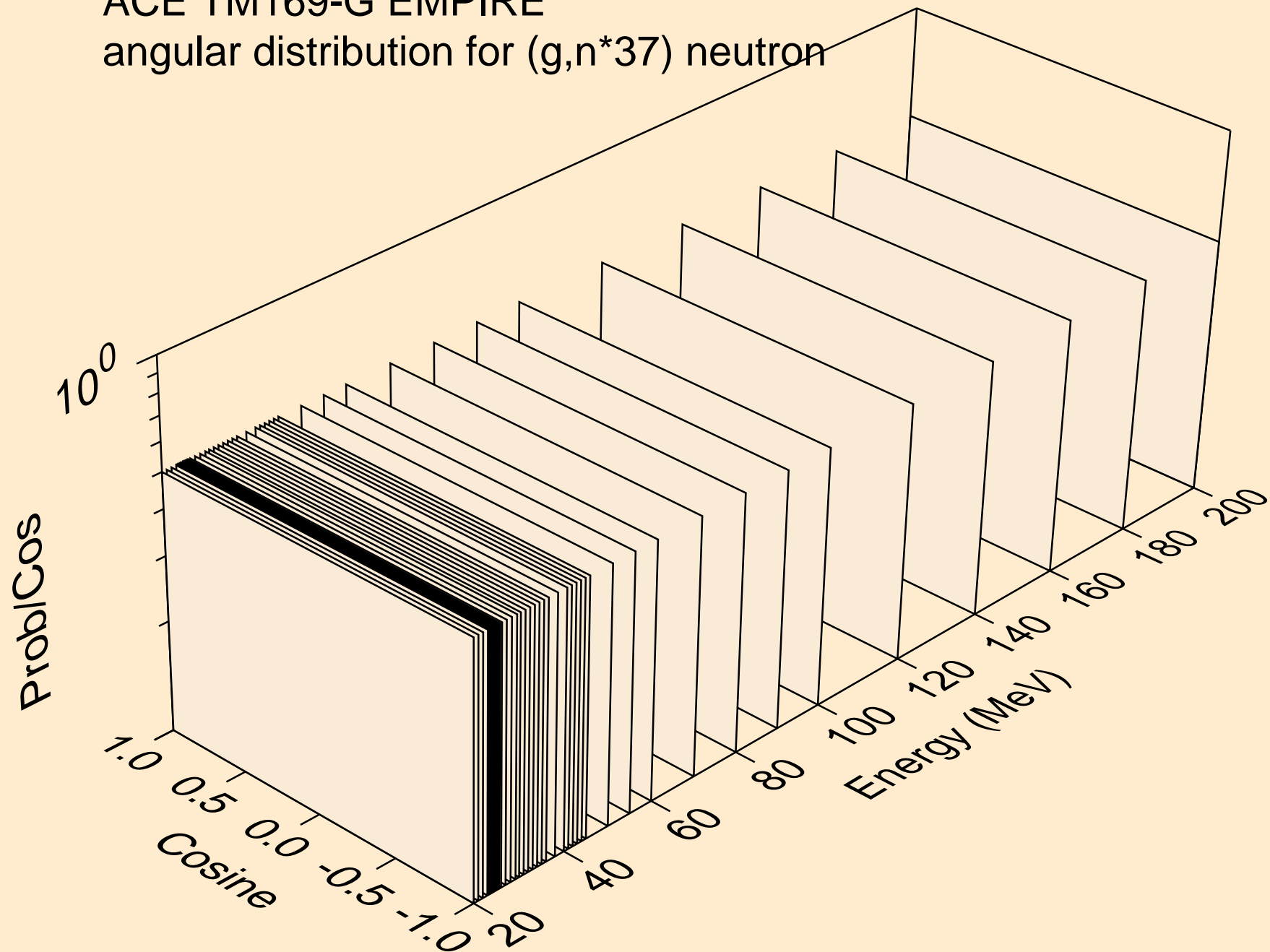
ACE TM169-G EMPIRE
angular distribution for (g,n*36) neutron



ACE TM169-G EMPIRE
angular distribution for (g,n*37) neutron

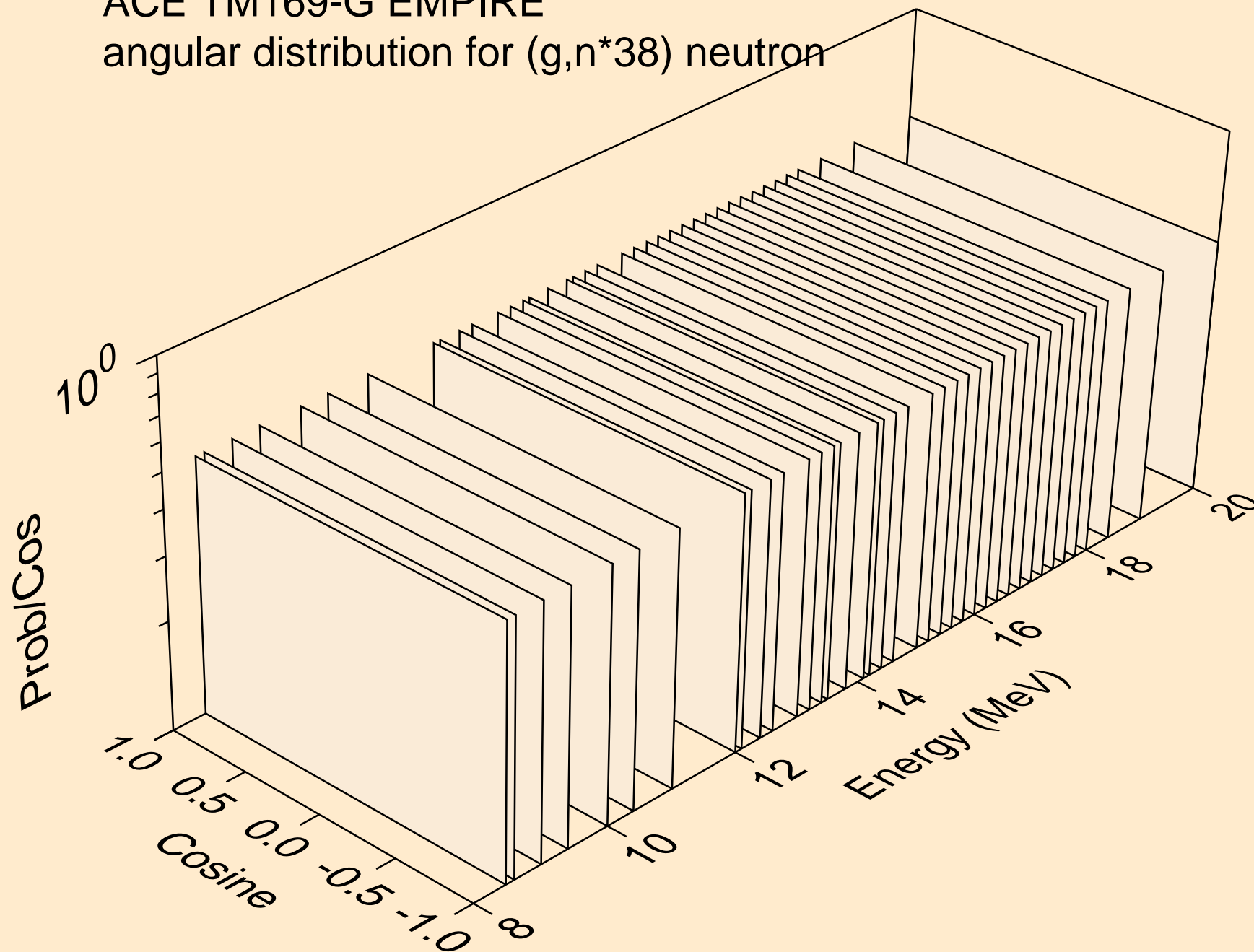


ACE TM169-G EMPIRE
angular distribution for (g,n*37) neutron

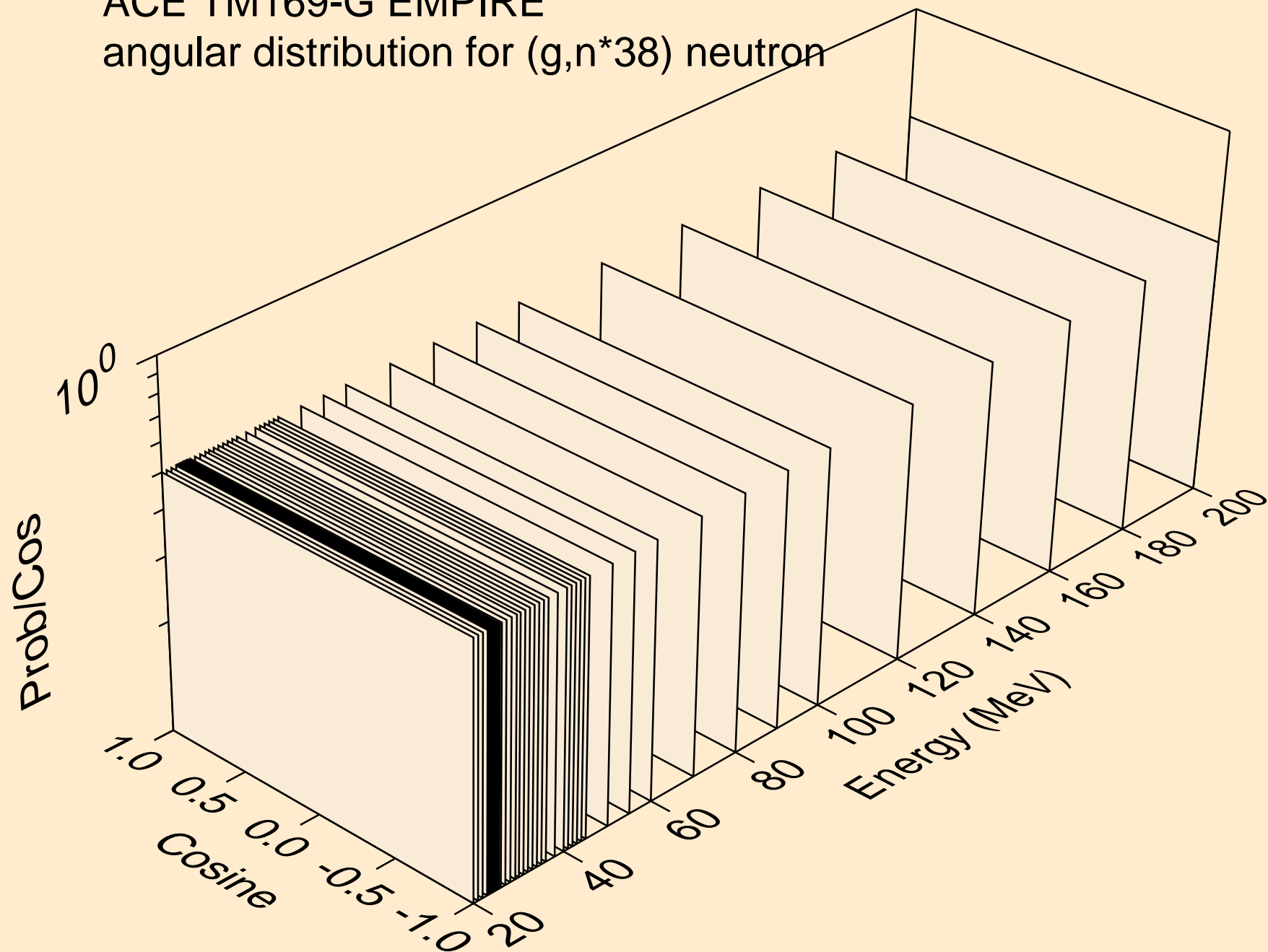


ACE TM169-G EMPIRE

angular distribution for (g,n*38) neutron

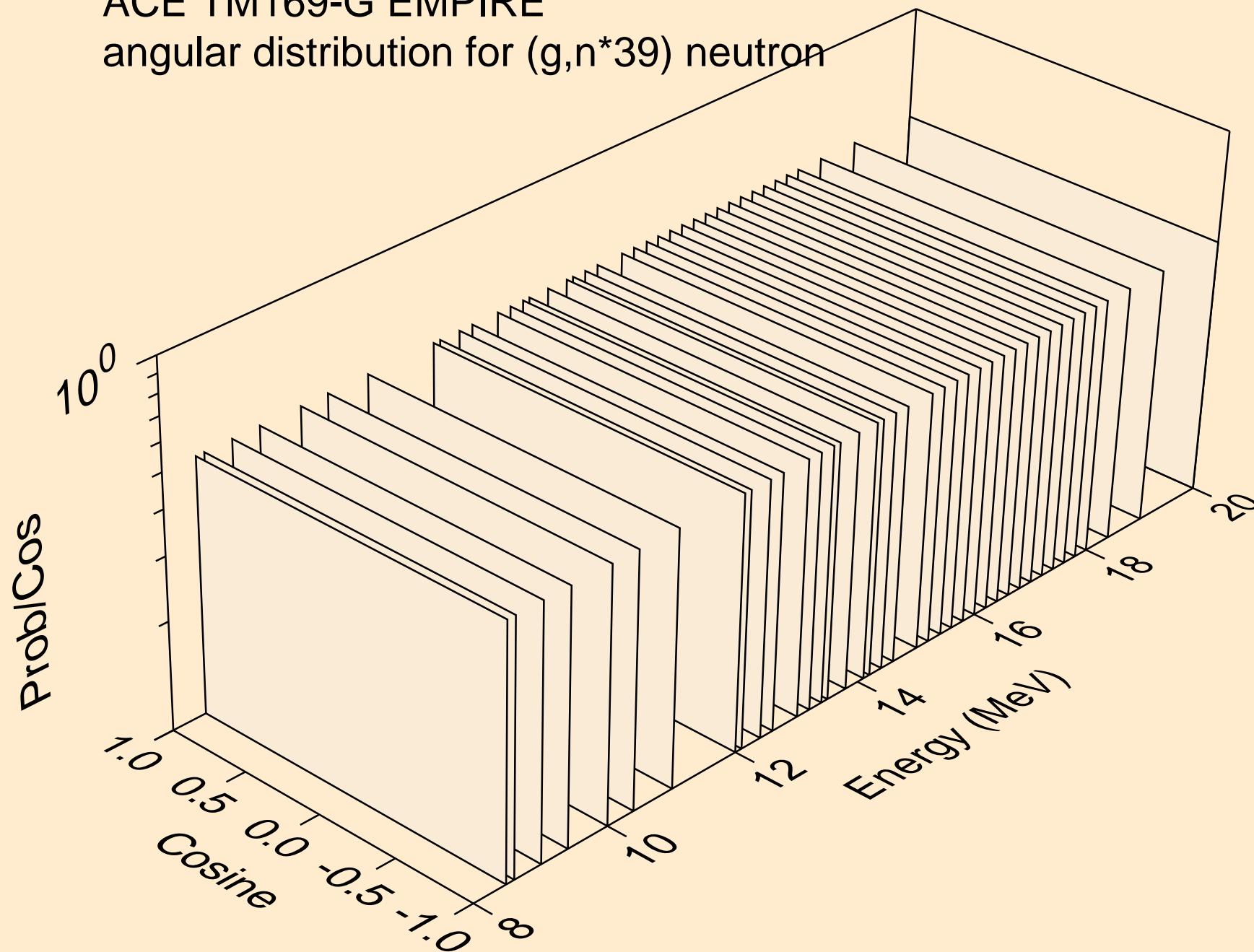


ACE TM169-G EMPIRE
angular distribution for (g,n*38) neutron

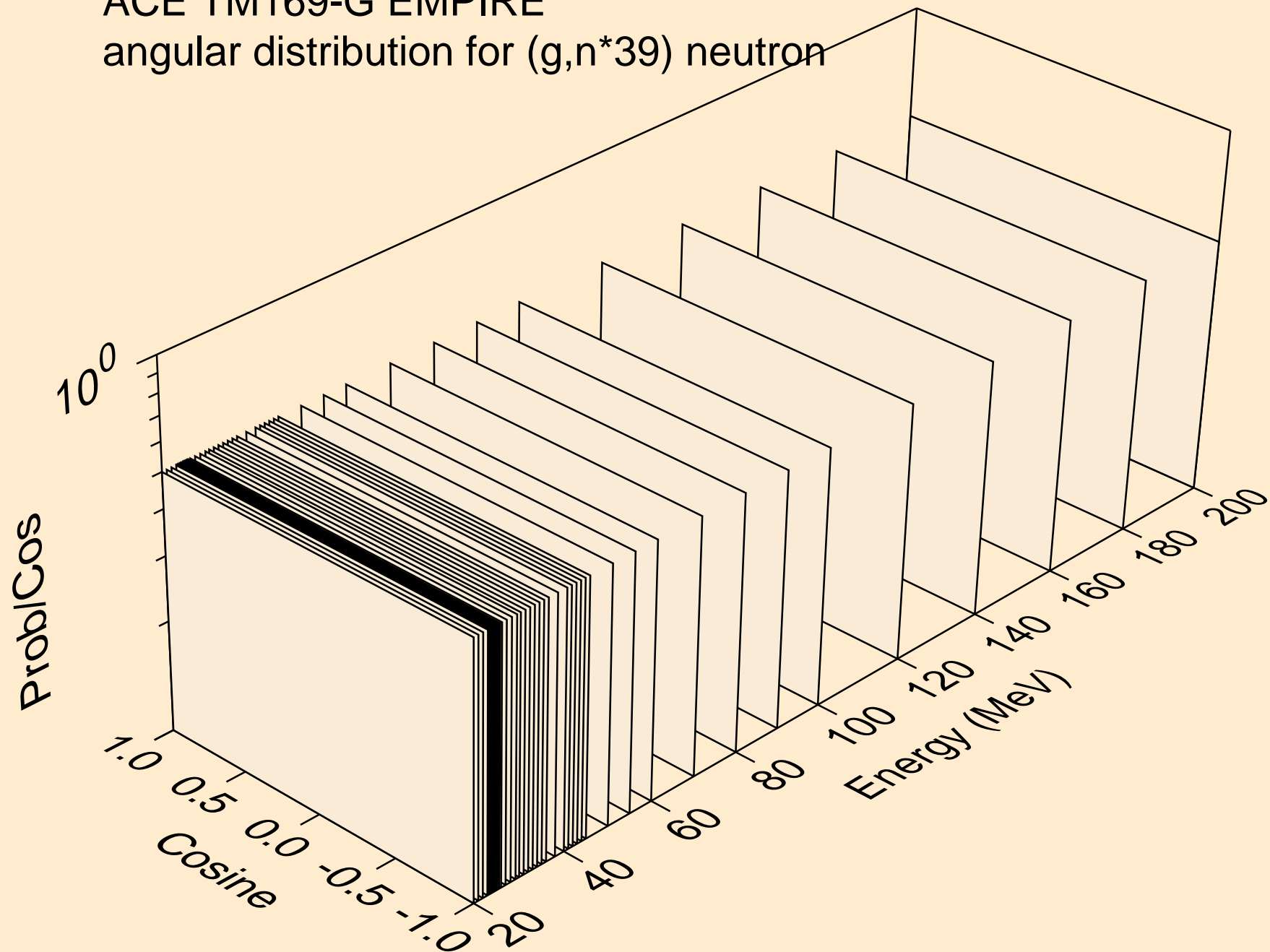


ACE TM169-G EMPIRE

angular distribution for (g,n*39) neutron

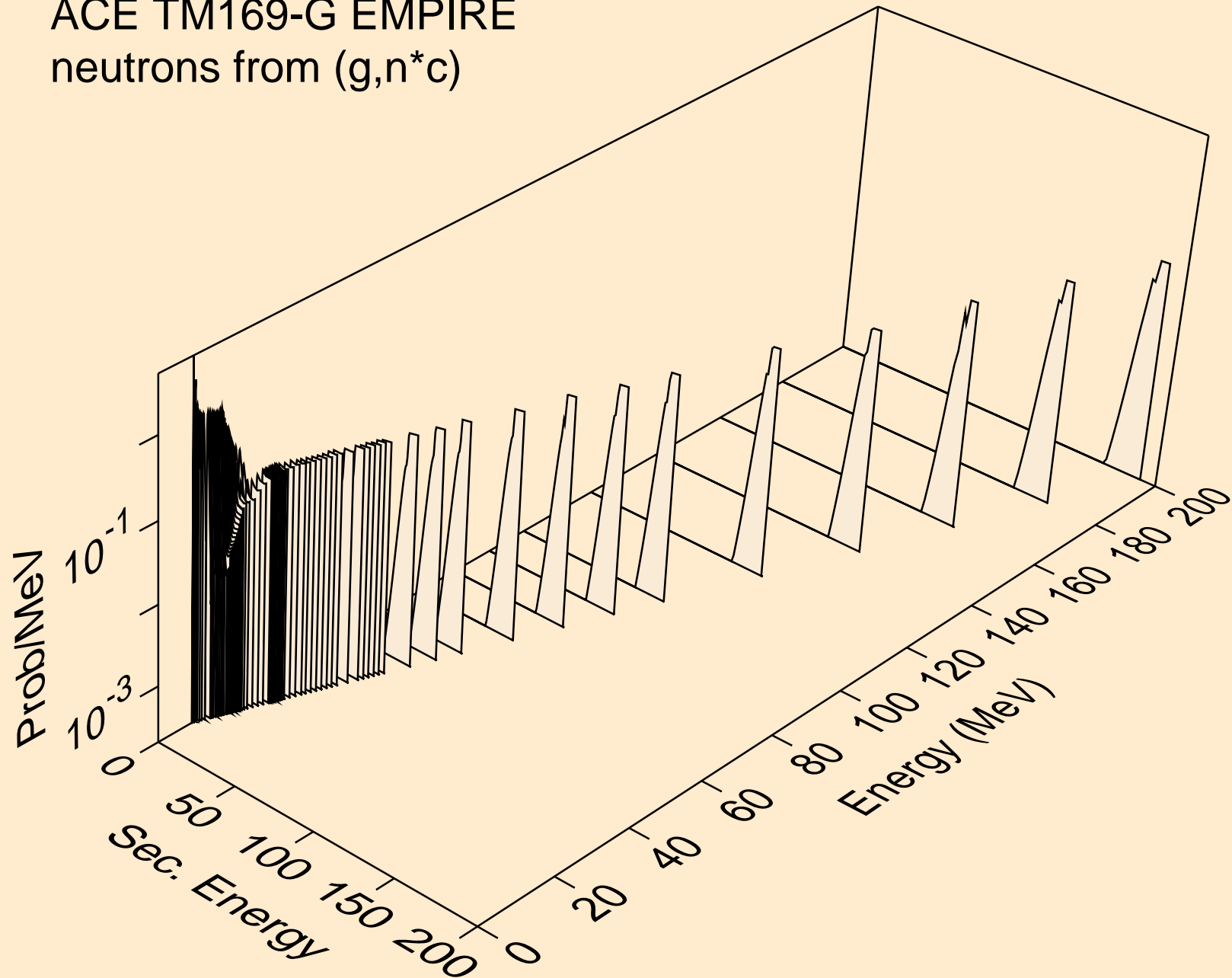


ACE TM169-G EMPIRE
angular distribution for (g,n*39) neutron



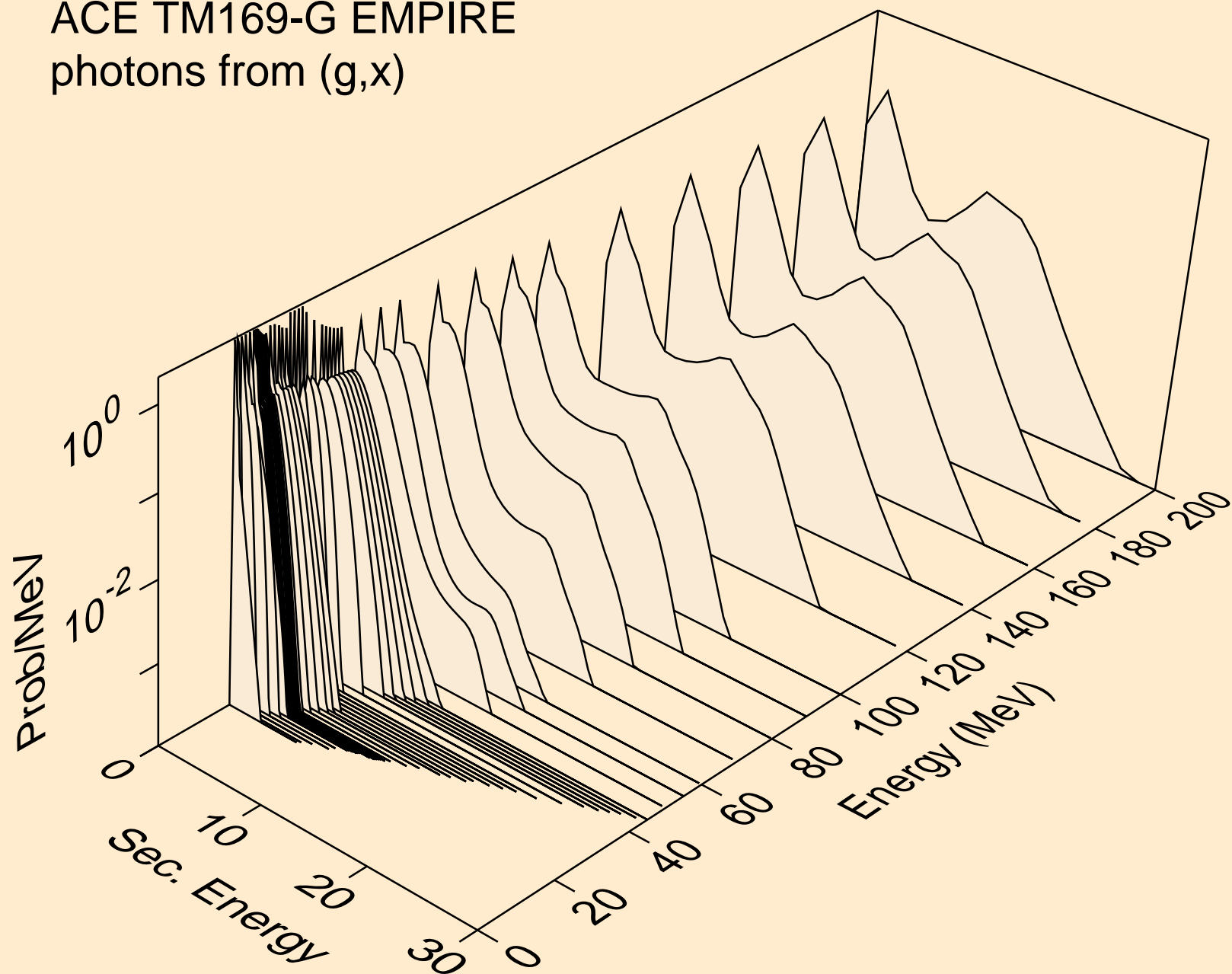
ACE TM169-G EMPIRE

neutrons from (g,n*c)



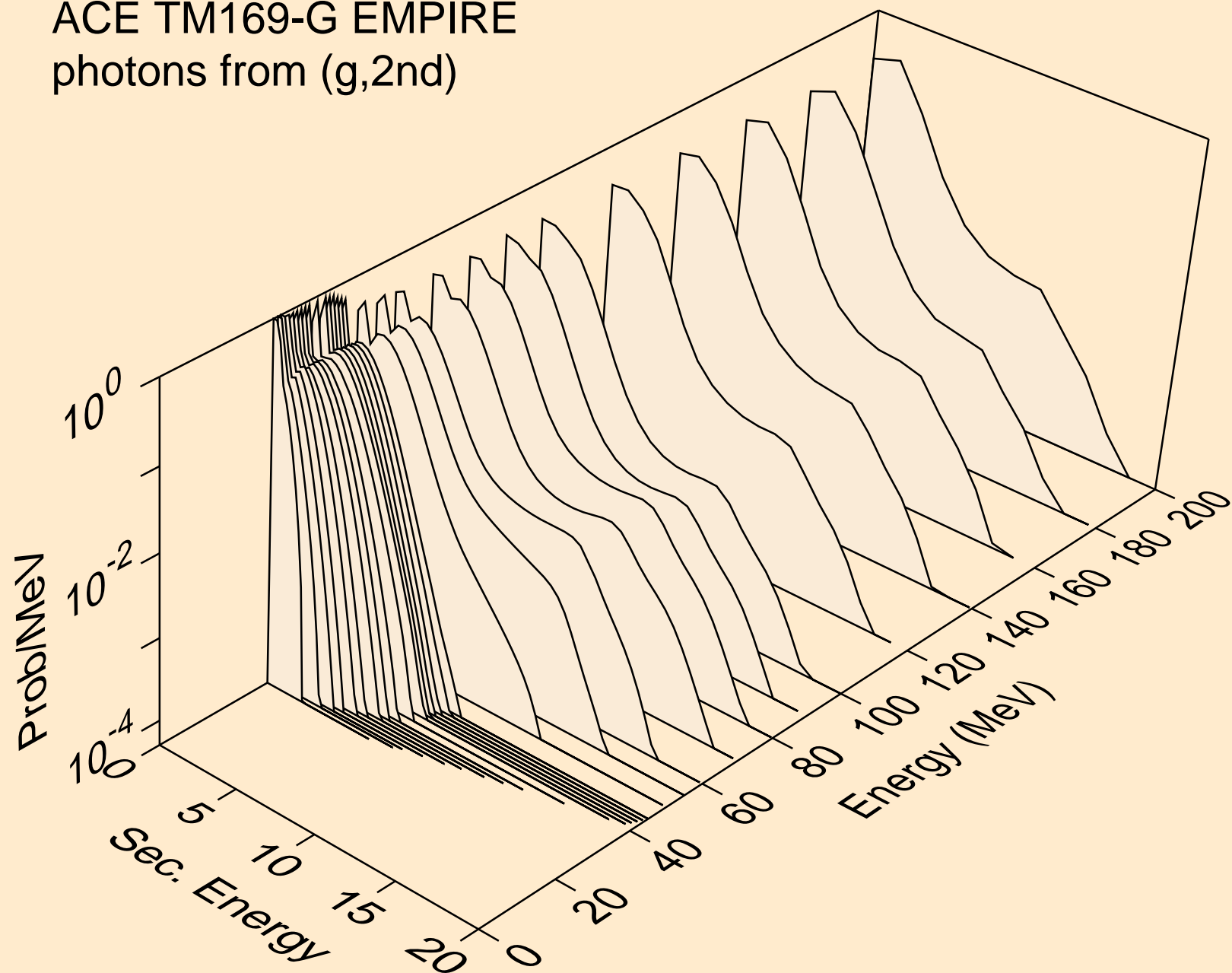
ACE TM169-G EMPIRE

photons from (g,x)

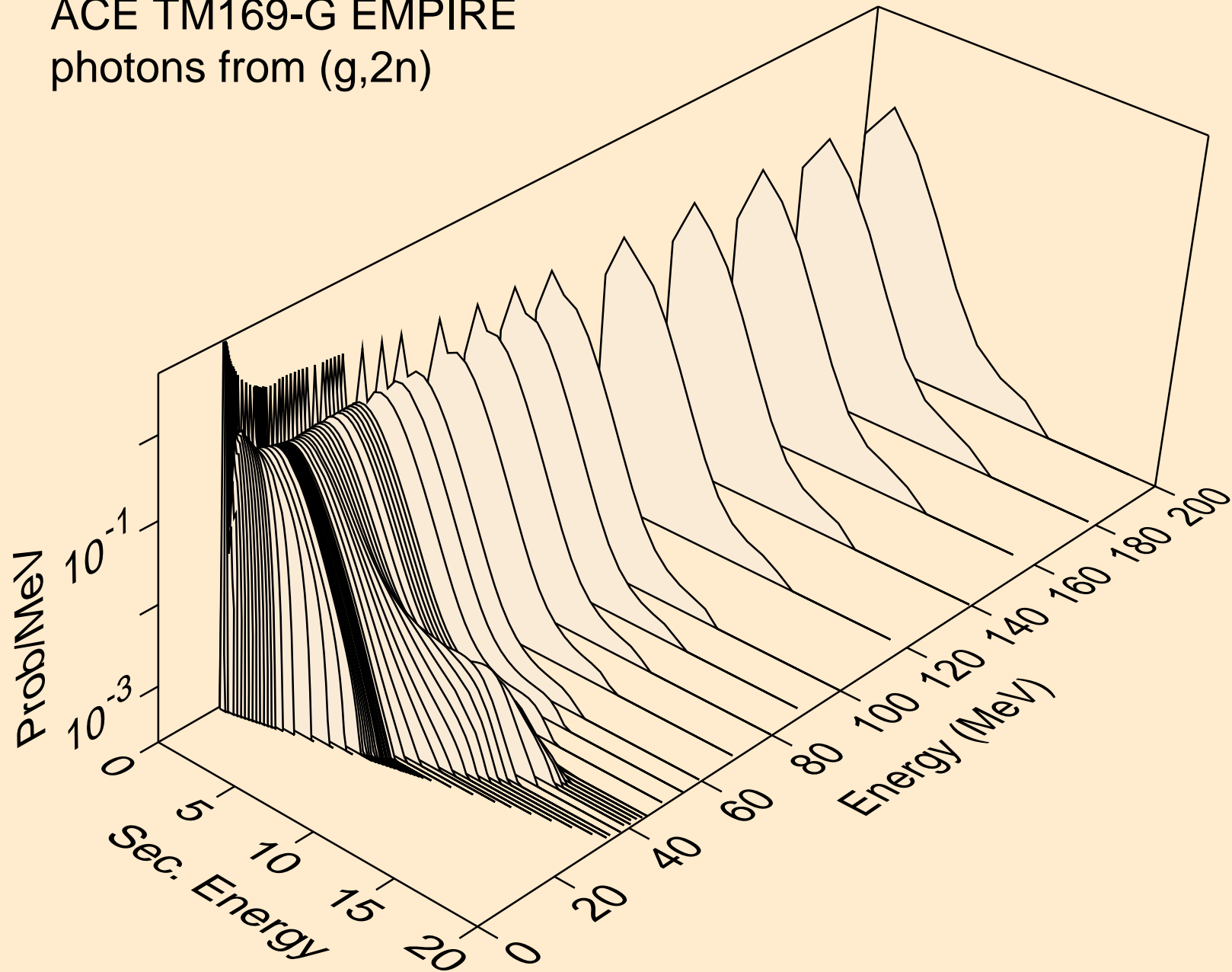


ACE TM169-G EMPIRE

photons from (g,2nd)

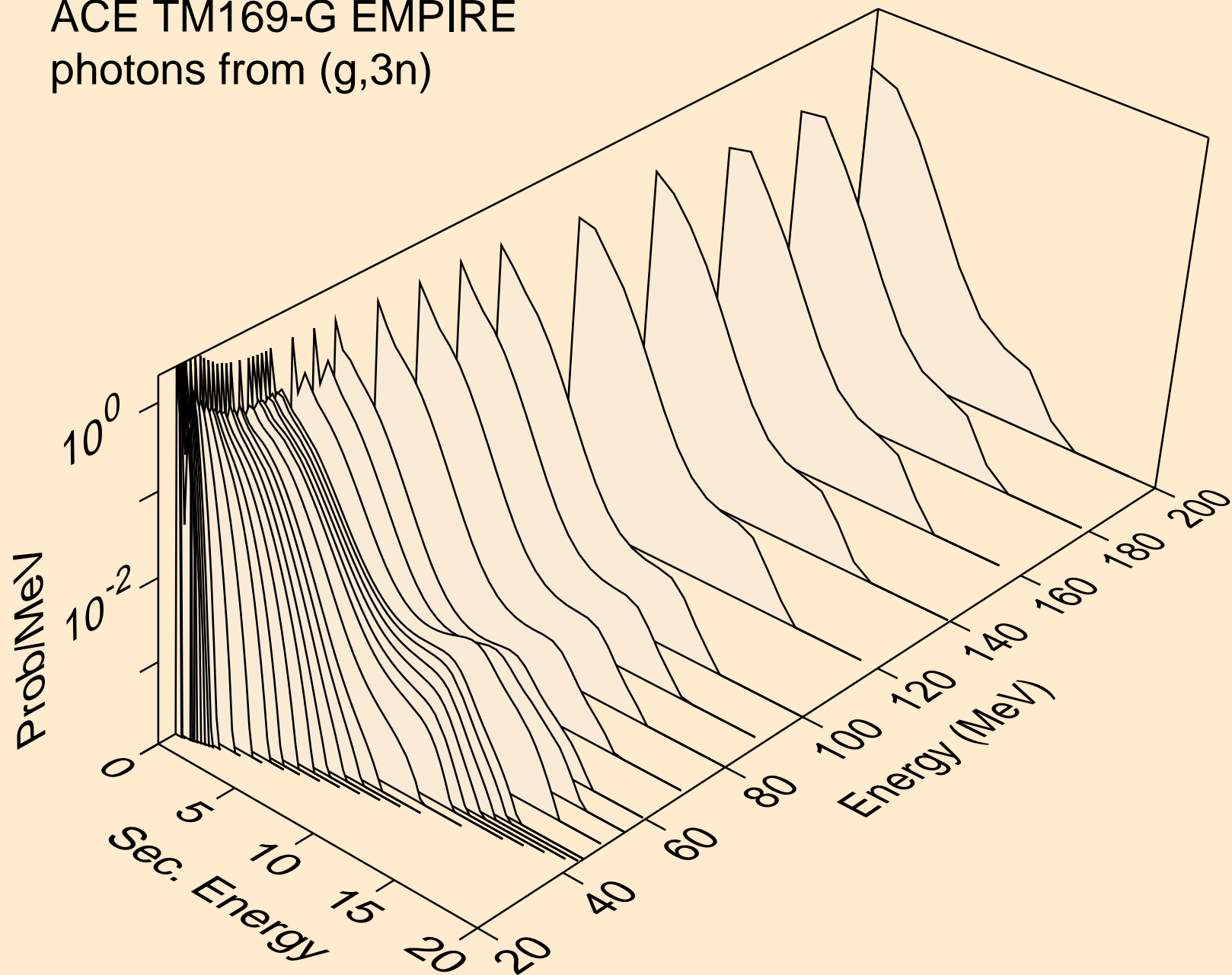


ACE TM169-G EMPIRE
photons from (g,2n)

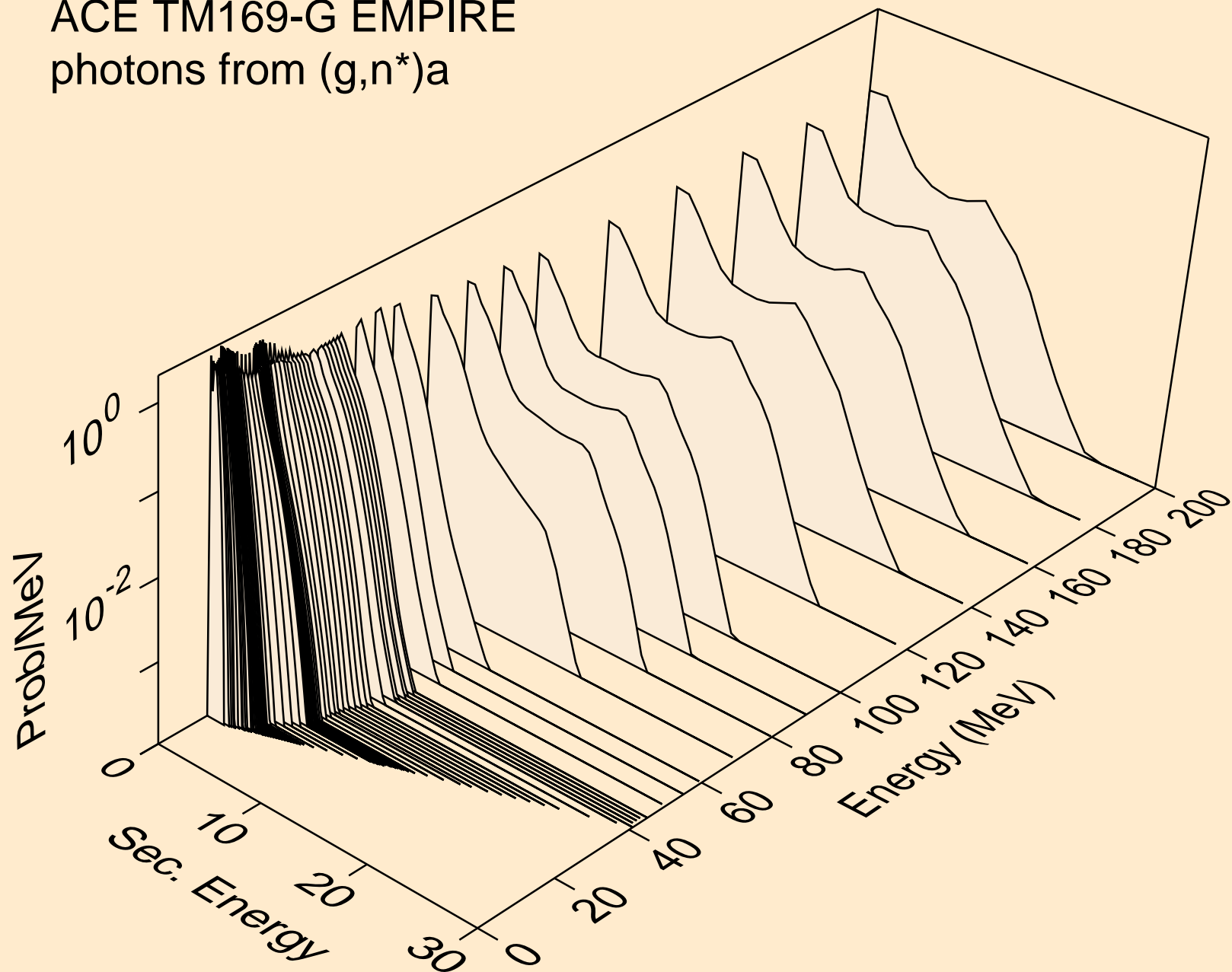


ACE TM169-G EMPIRE

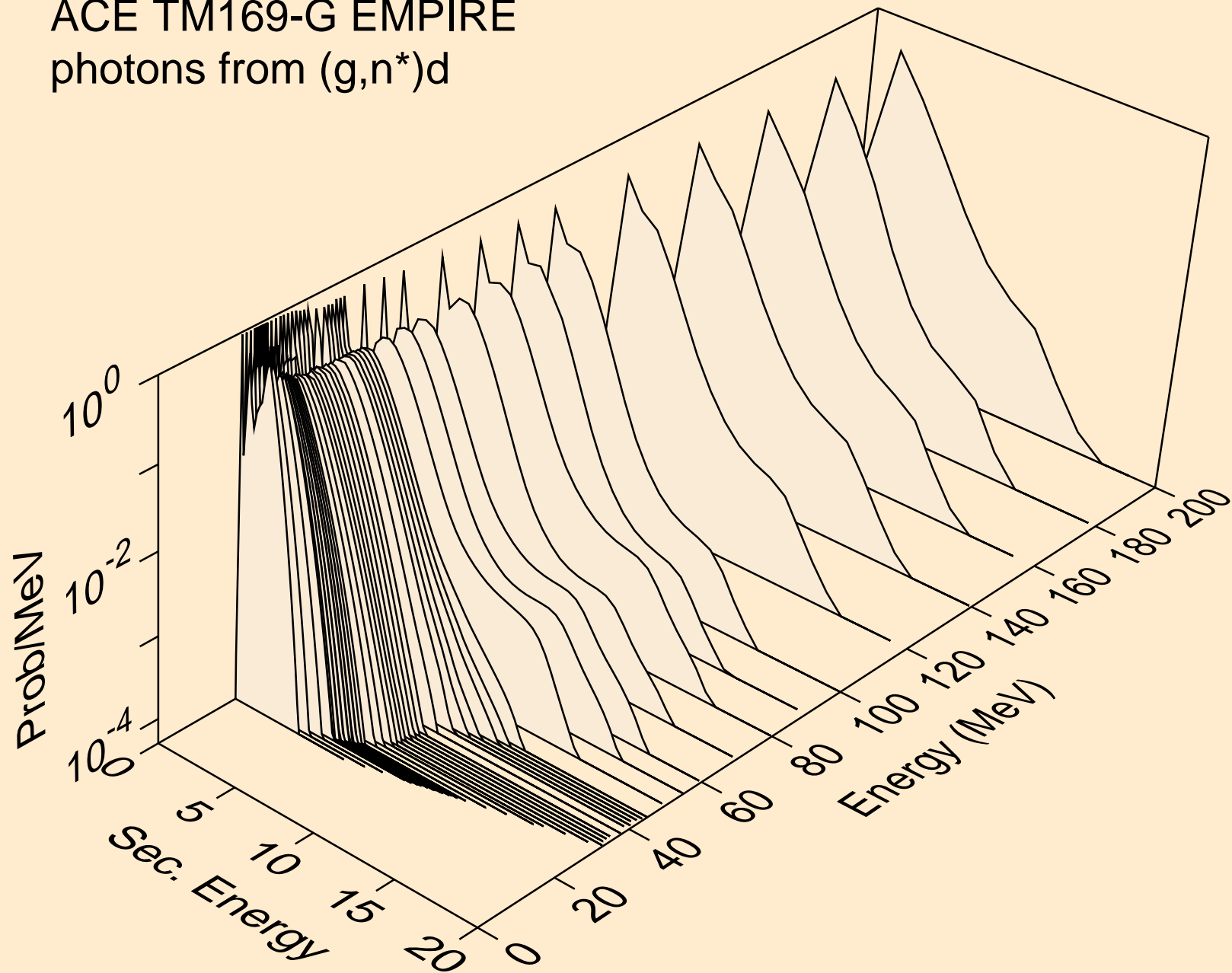
photons from (g,3n)



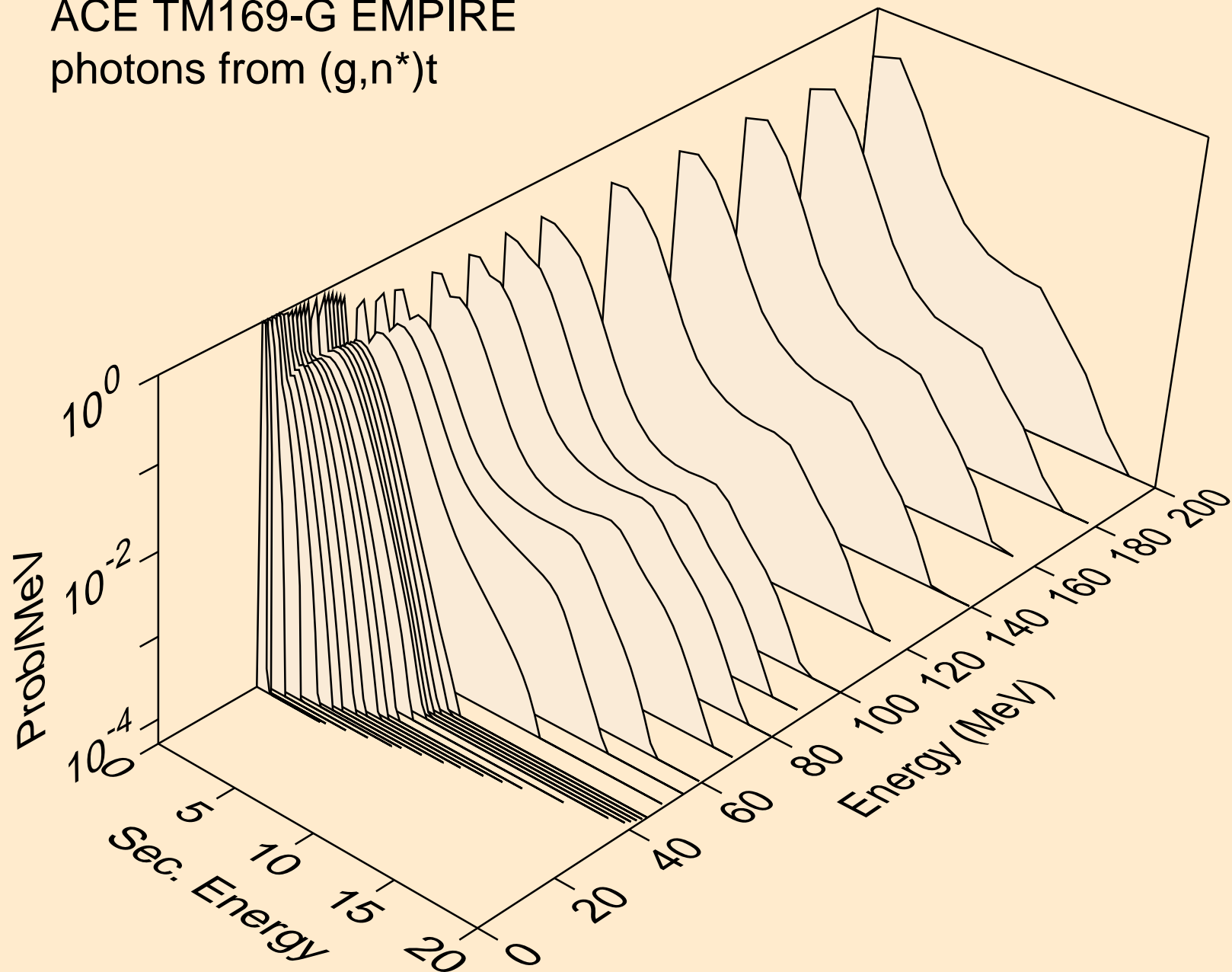
ACE TM169-G EMPIRE
photons from $(g,n^*)a$



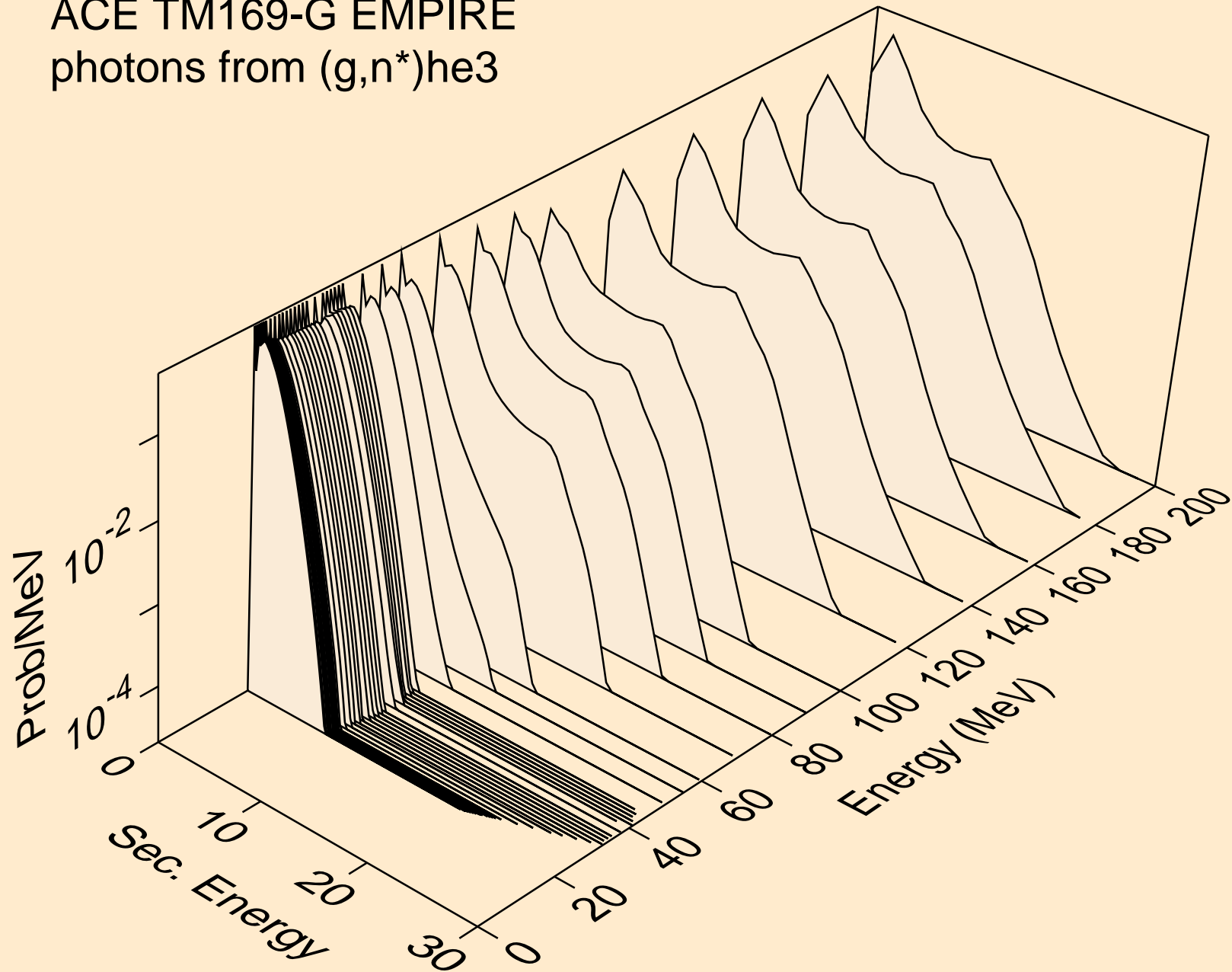
ACE TM169-G EMPIRE
photons from $(g,n^*)d$



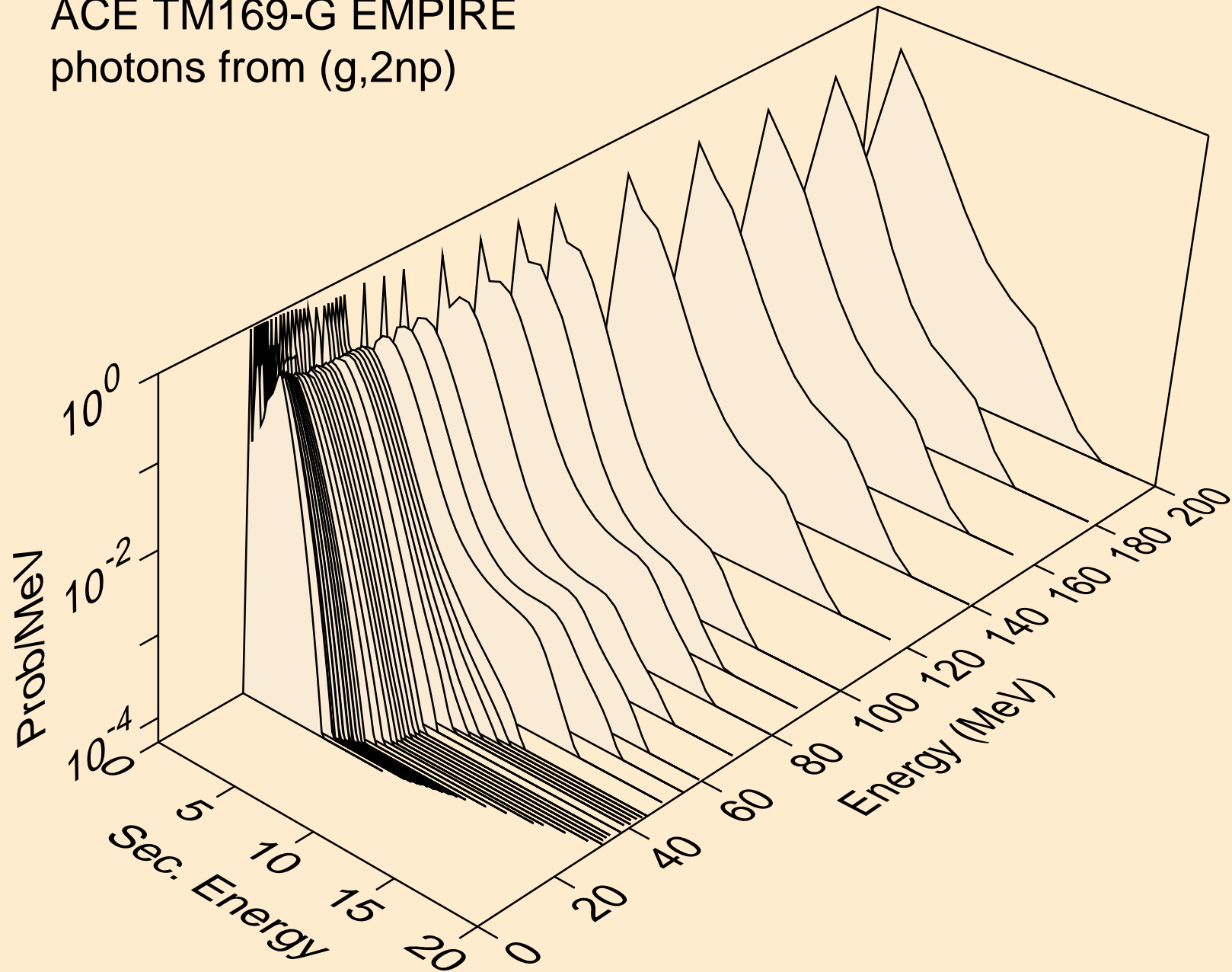
ACE TM169-G EMPIRE
photons from $(g,n^*)t$



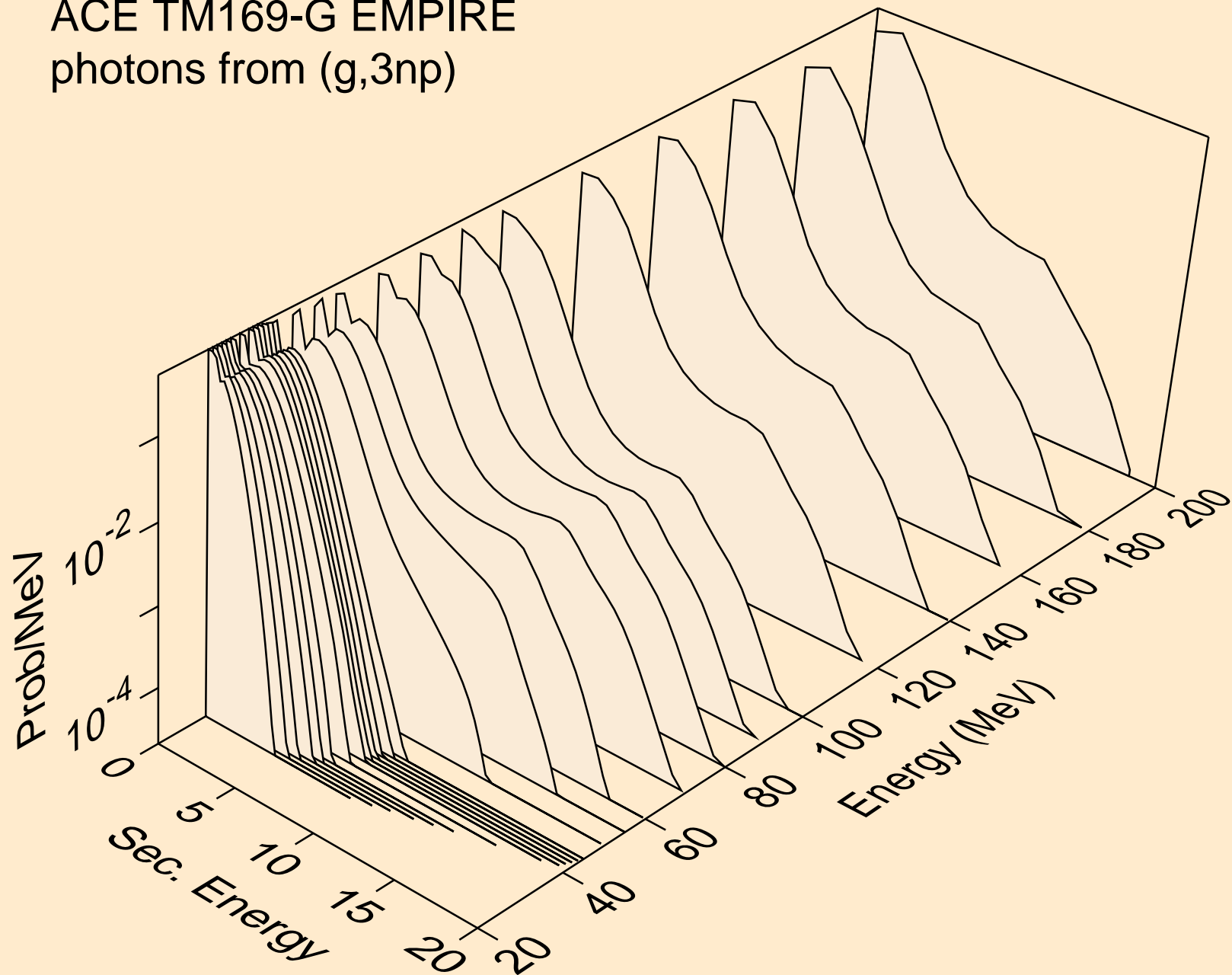
ACE TM169-G EMPIRE
photons from $(g,n^*)\text{he3}$



ACE TM169-G EMPIRE
photons from (g,2np)

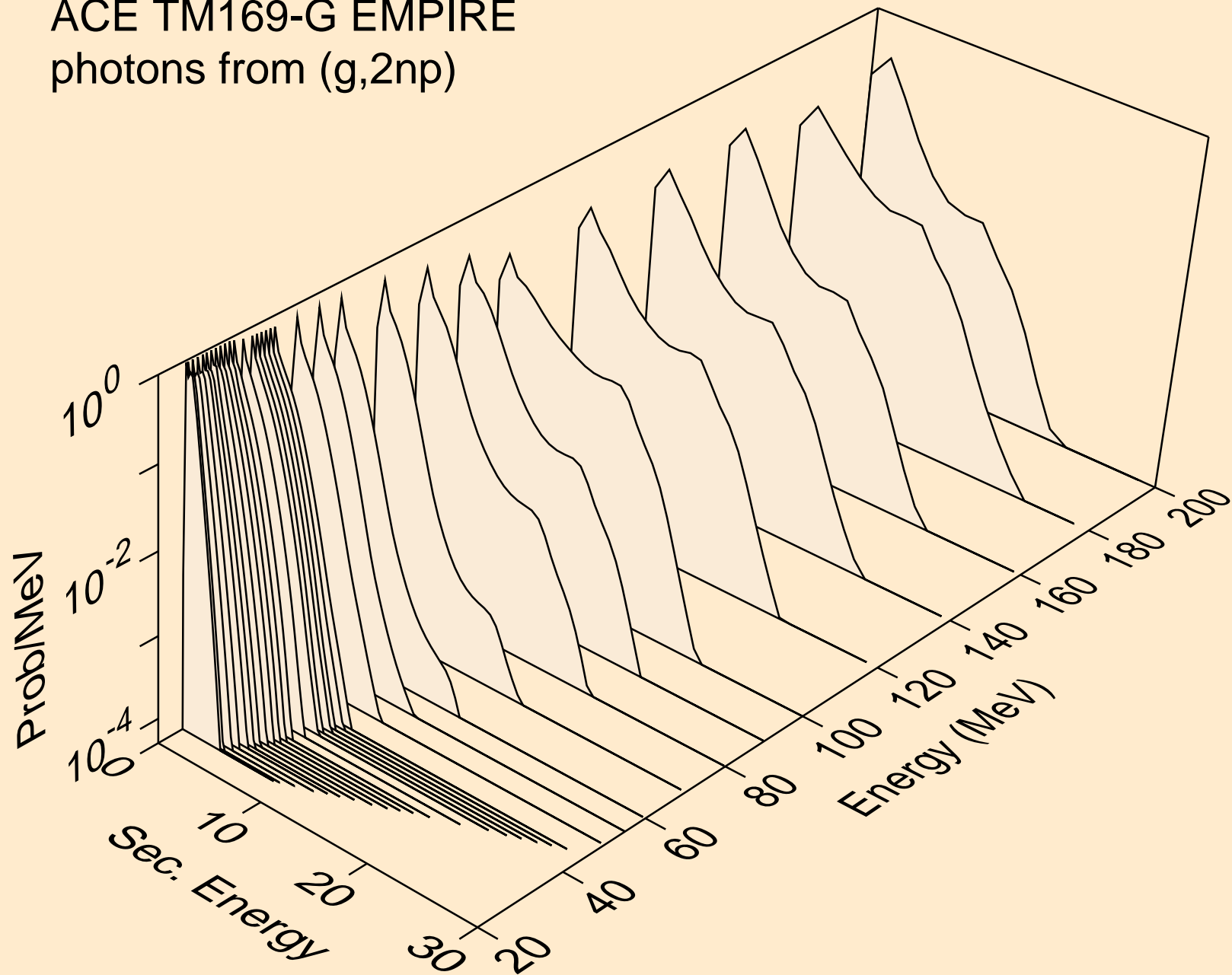


ACE TM169-G EMPIRE
photons from (g,3np)

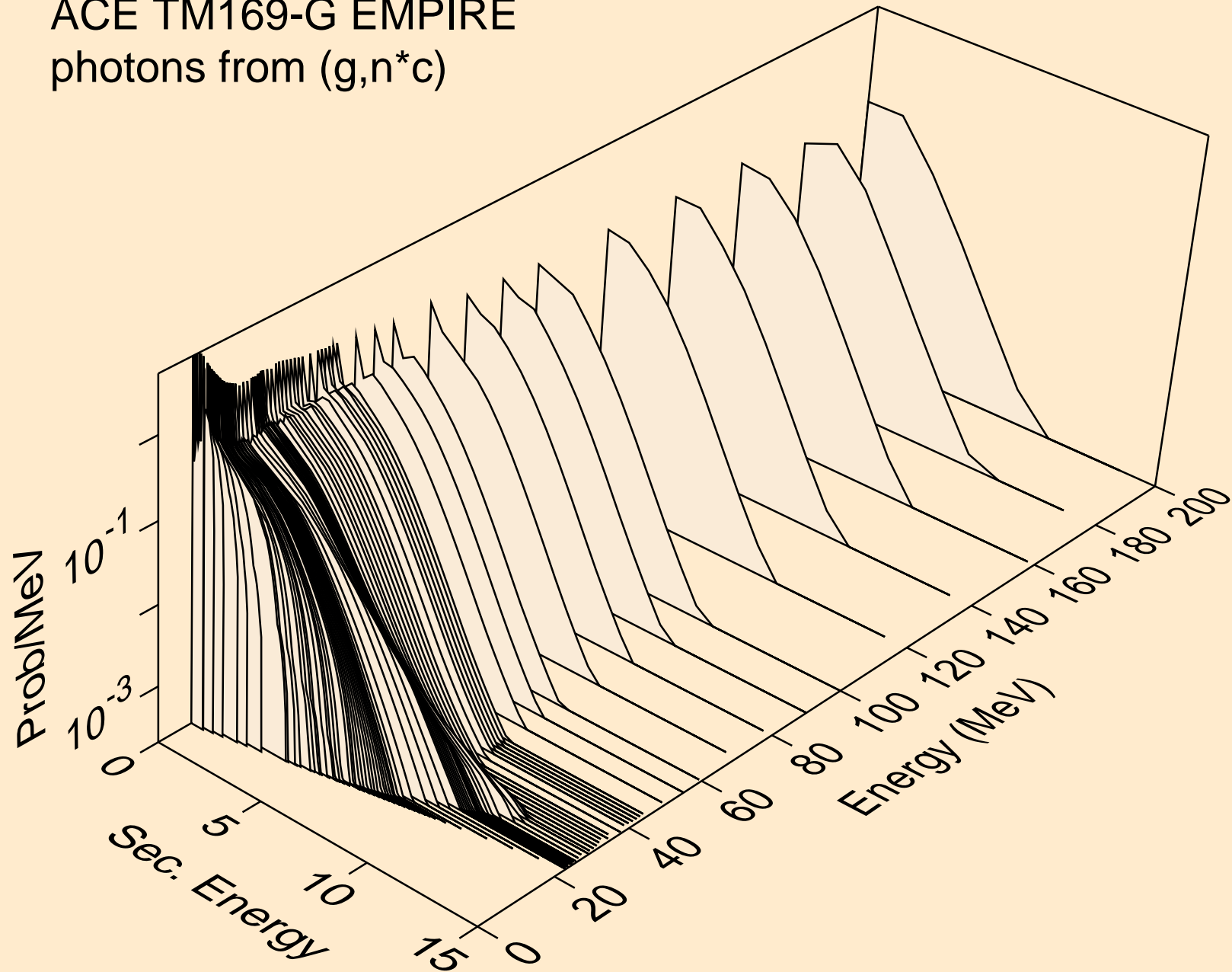


ACE TM169-G EMPIRE

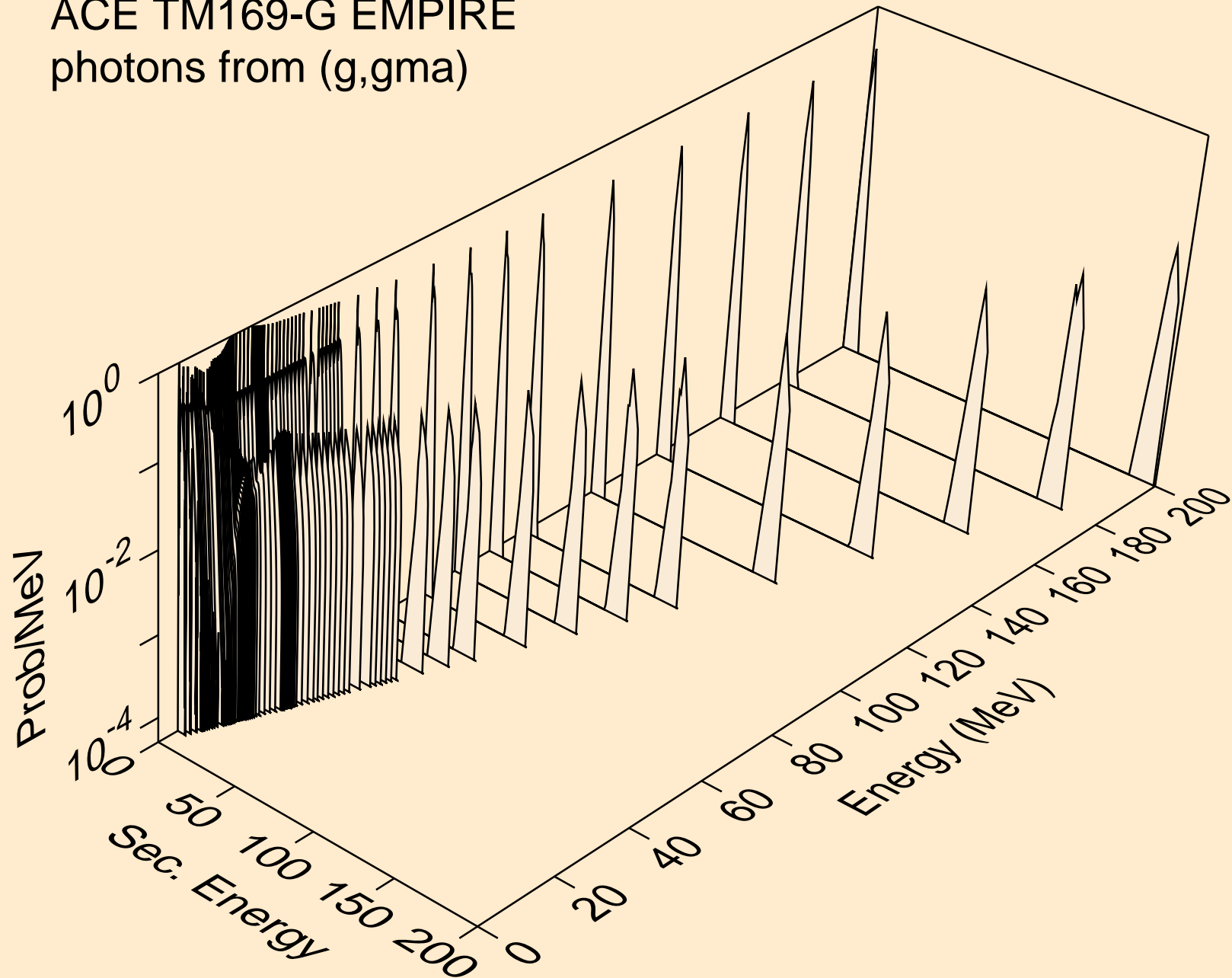
photons from (g,2np)



ACE TM169-G EMPIRE
photons from (g,n*c)

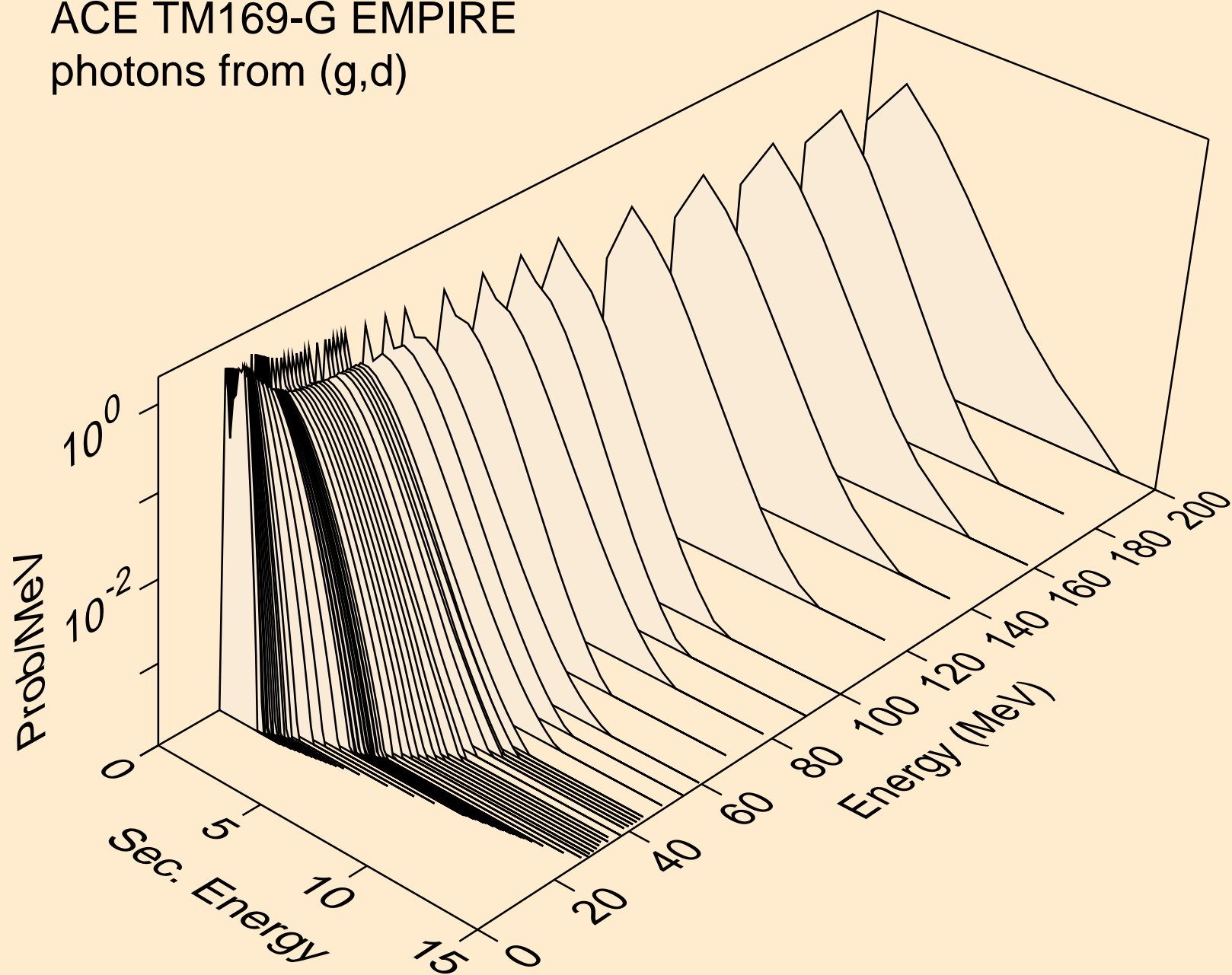


ACE TM169-G EMPIRE
photons from (g,gma)



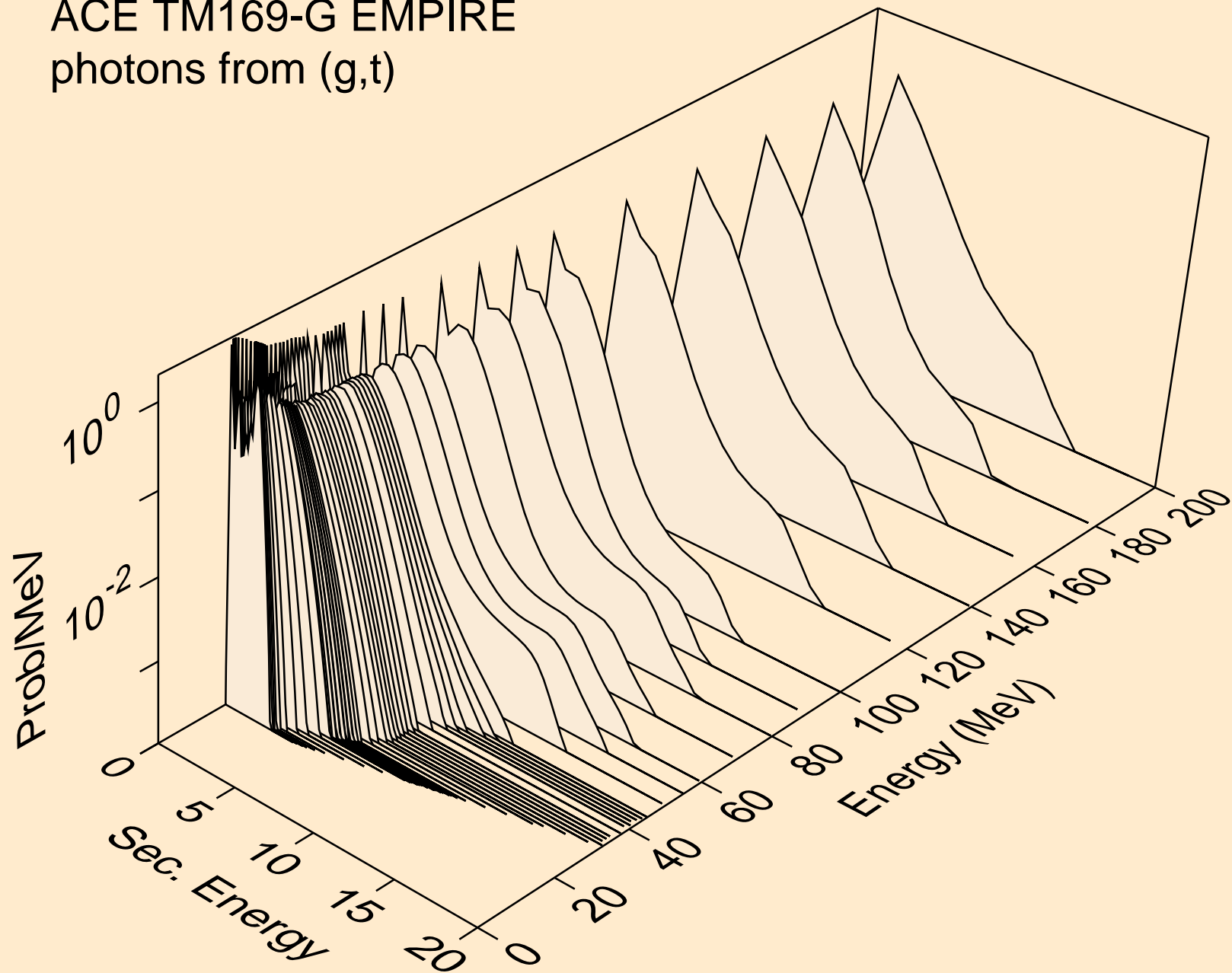
ACE TM169-G EMPIRE

photons from (g,d)

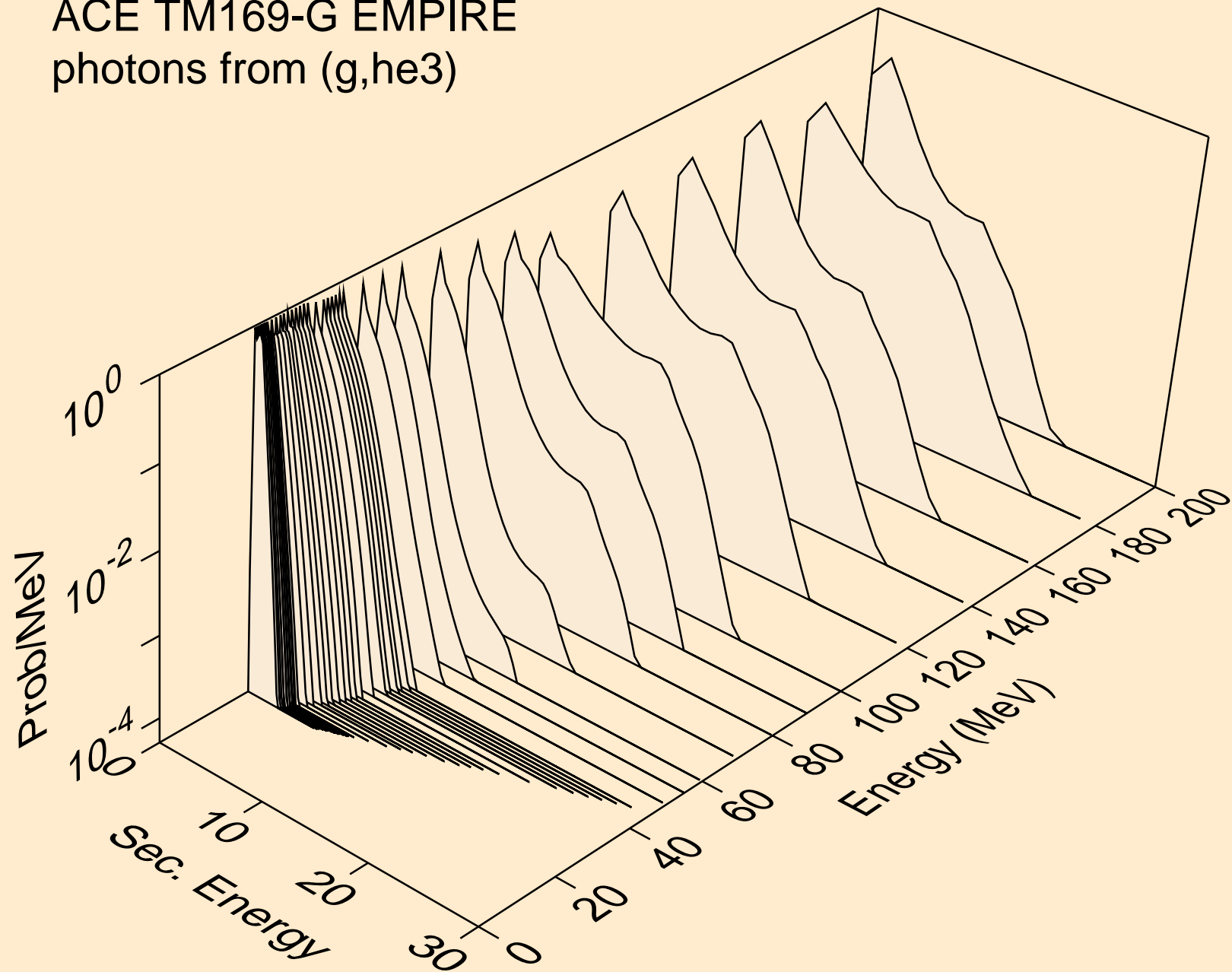


ACE TM169-G EMPIRE

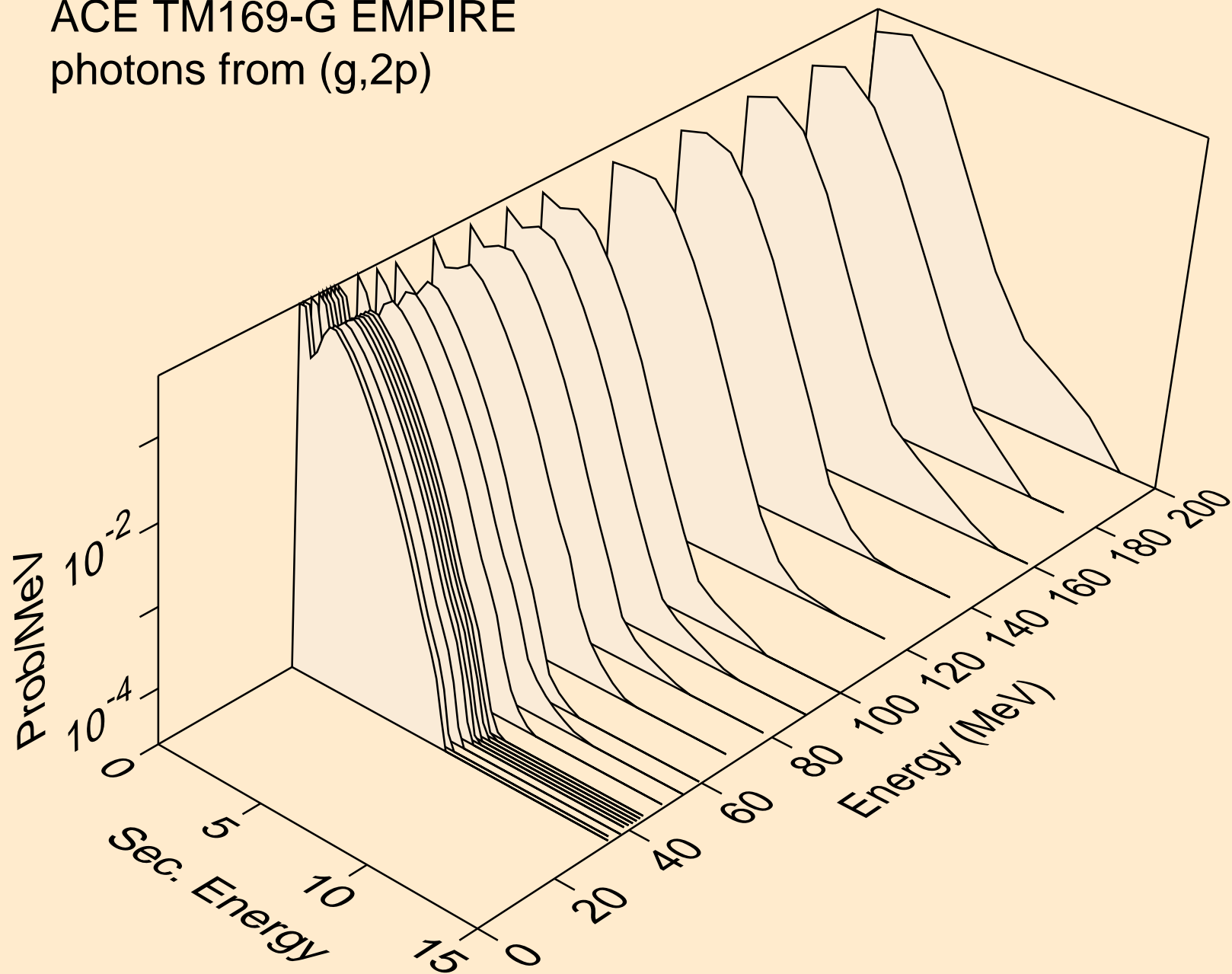
photons from (g,t)



ACE TM169-G EMPIRE
photons from (g,he3)

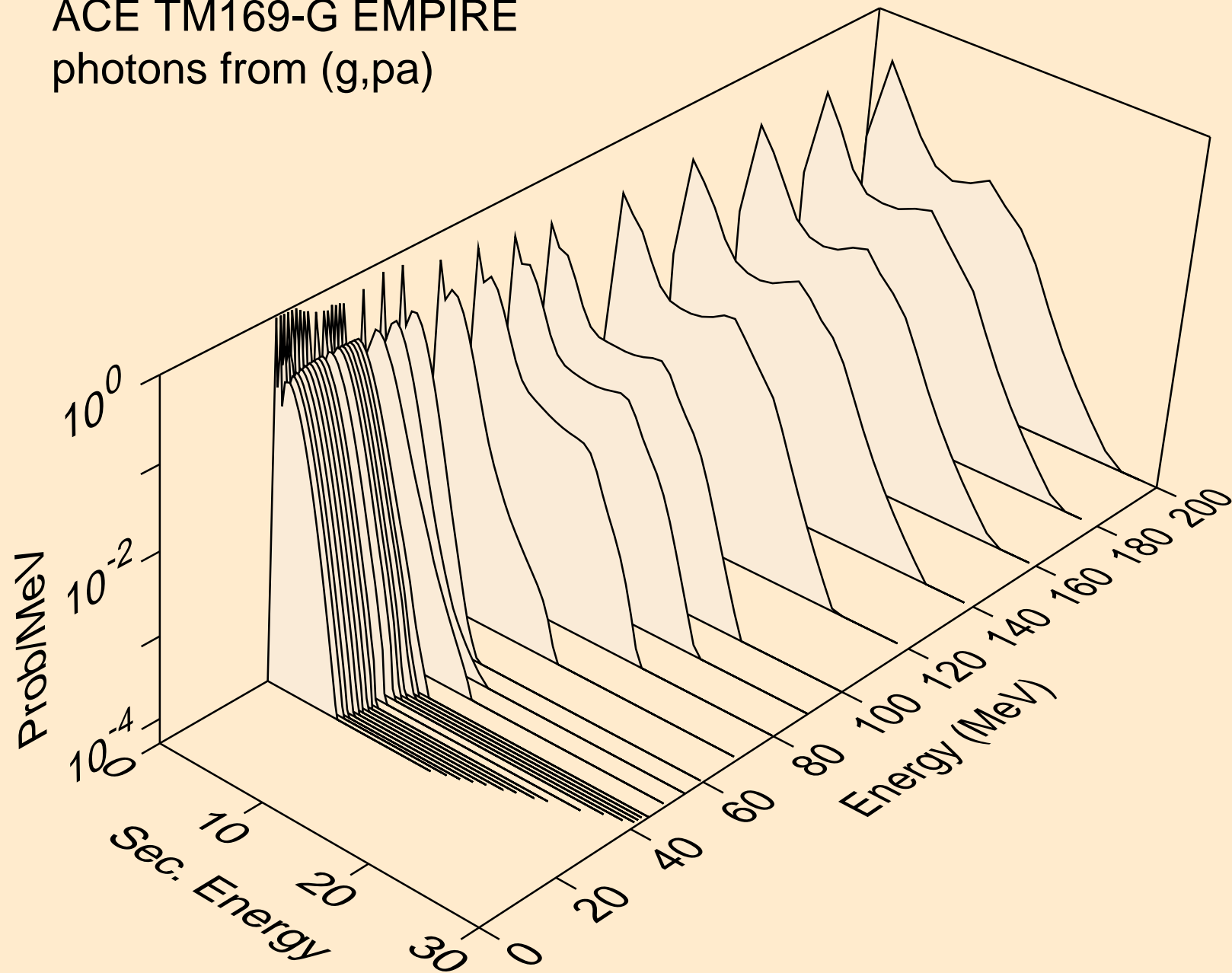


ACE TM169-G EMPIRE photons from (g,2p)



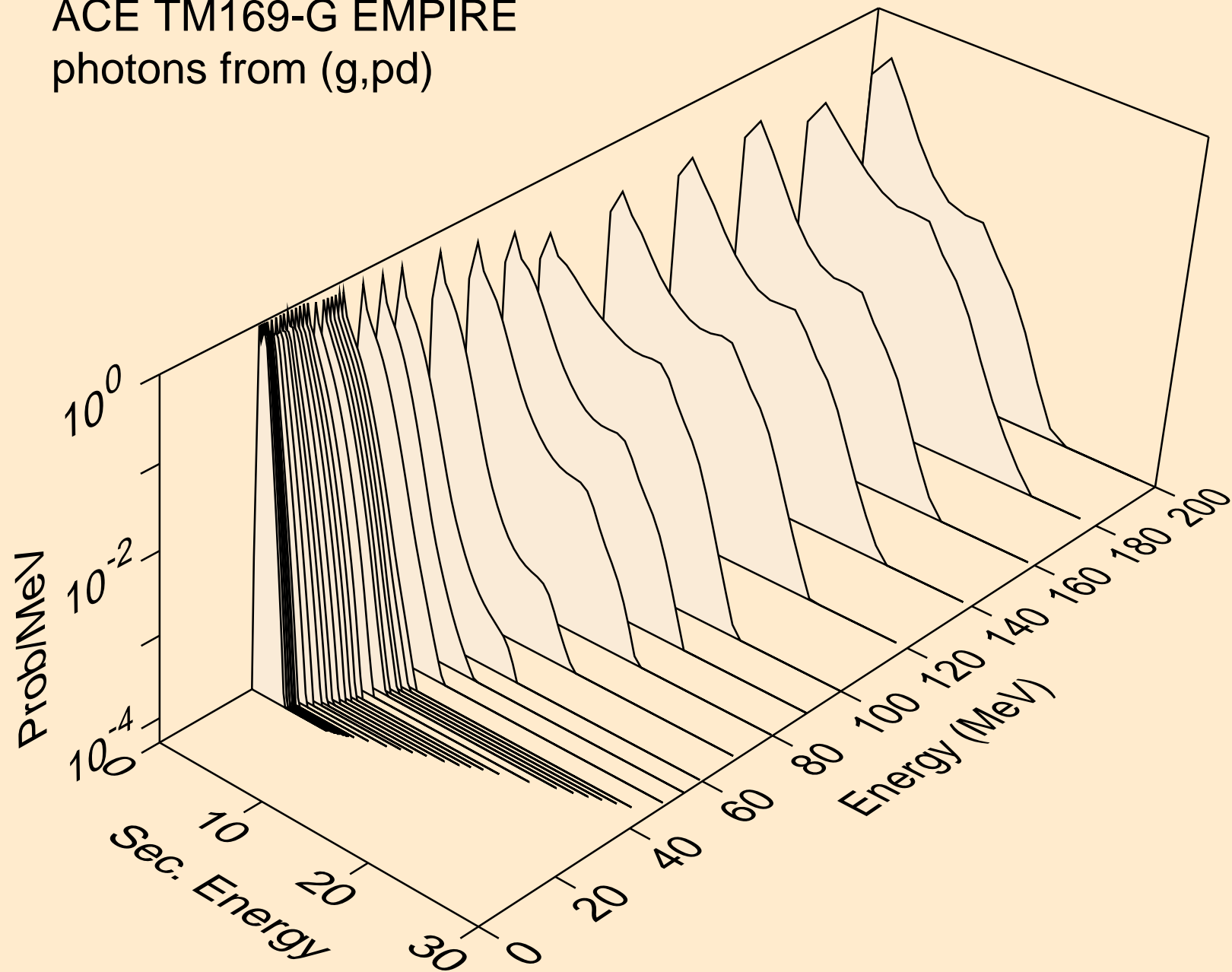
ACE TM169-G EMPIRE

photons from (g,pa)

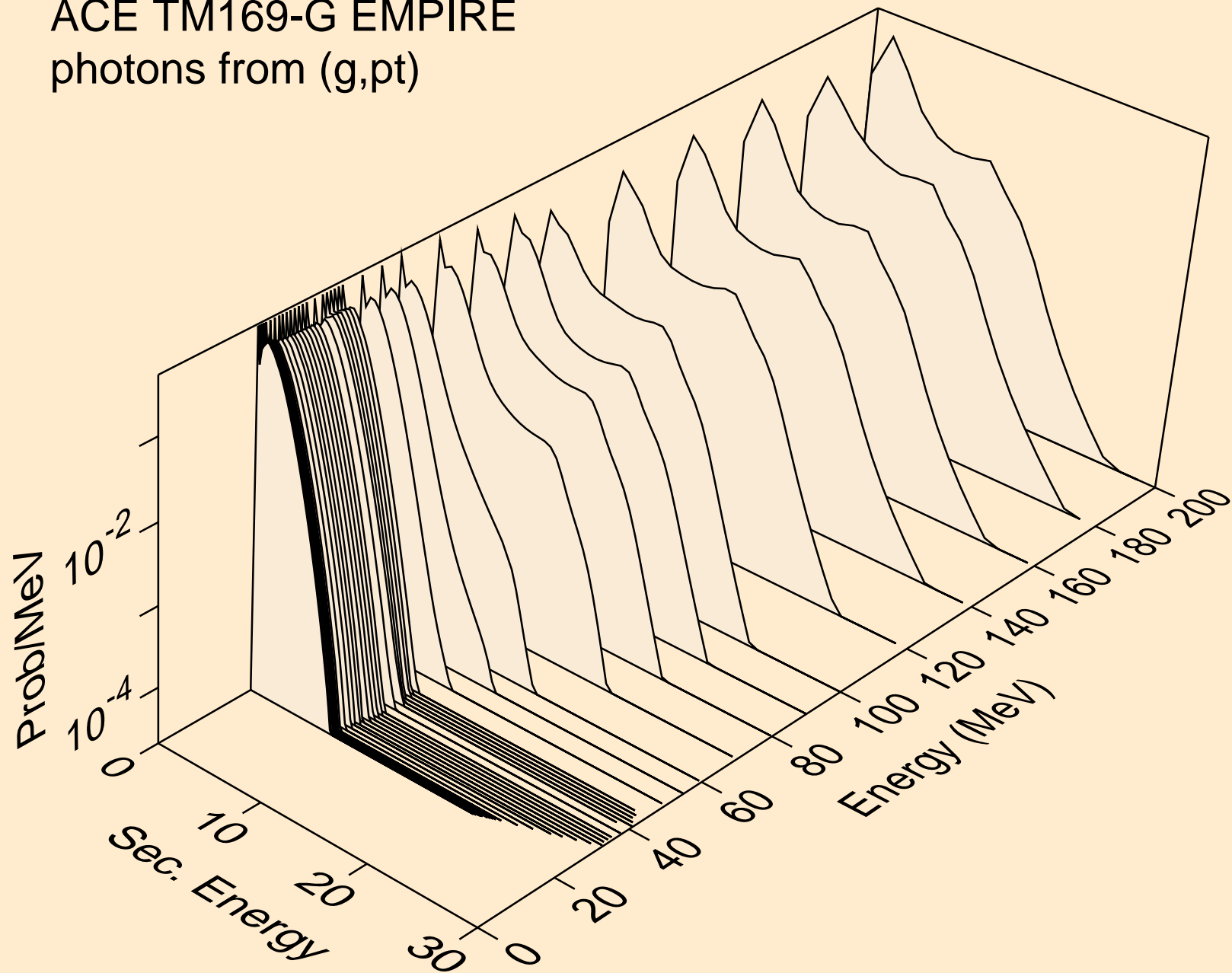


ACE TM169-G EMPIRE

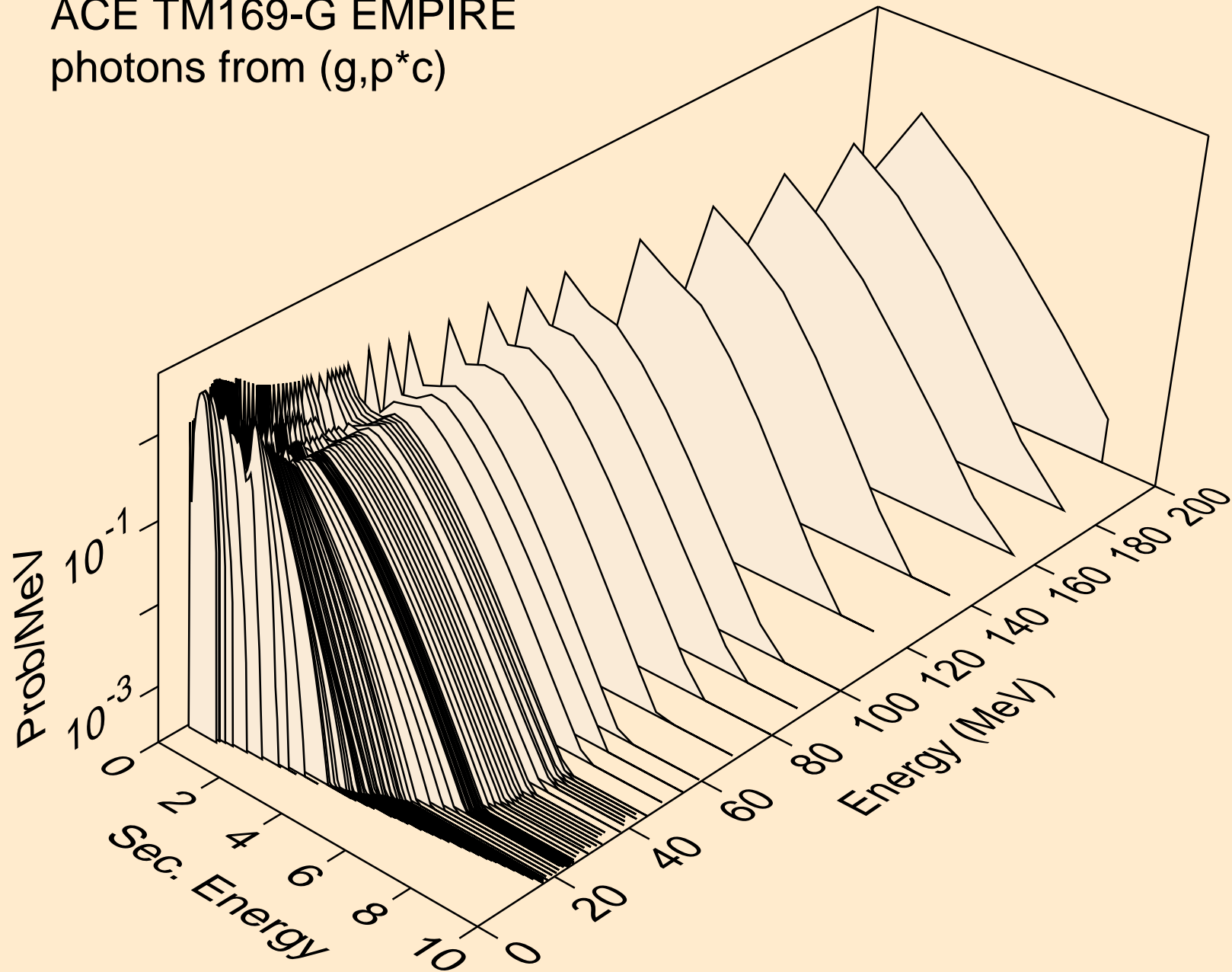
photons from (g,pd)



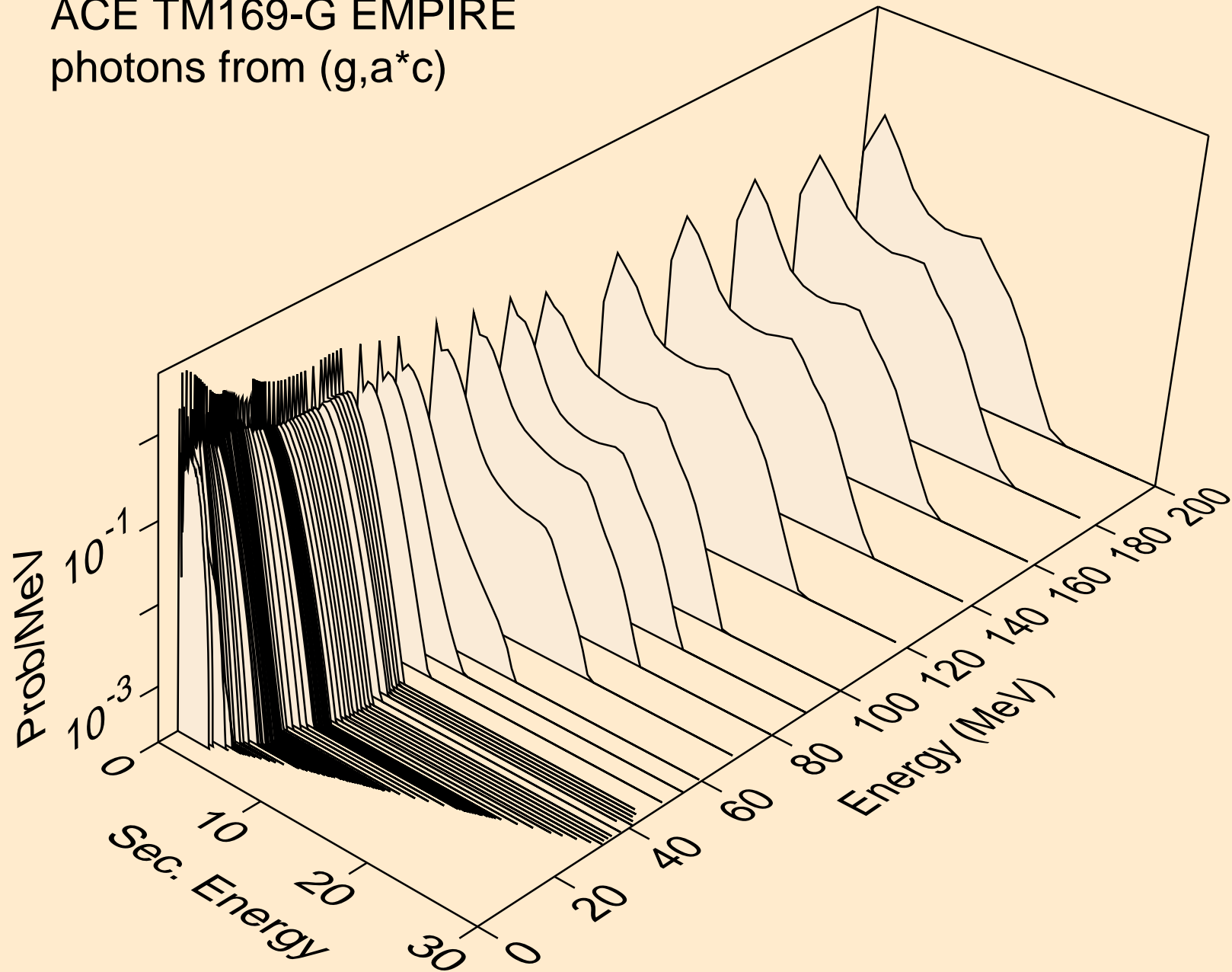
ACE TM169-G EMPIRE
photons from (g,pt)



ACE TM169-G EMPIRE
photons from (g,p^*c)

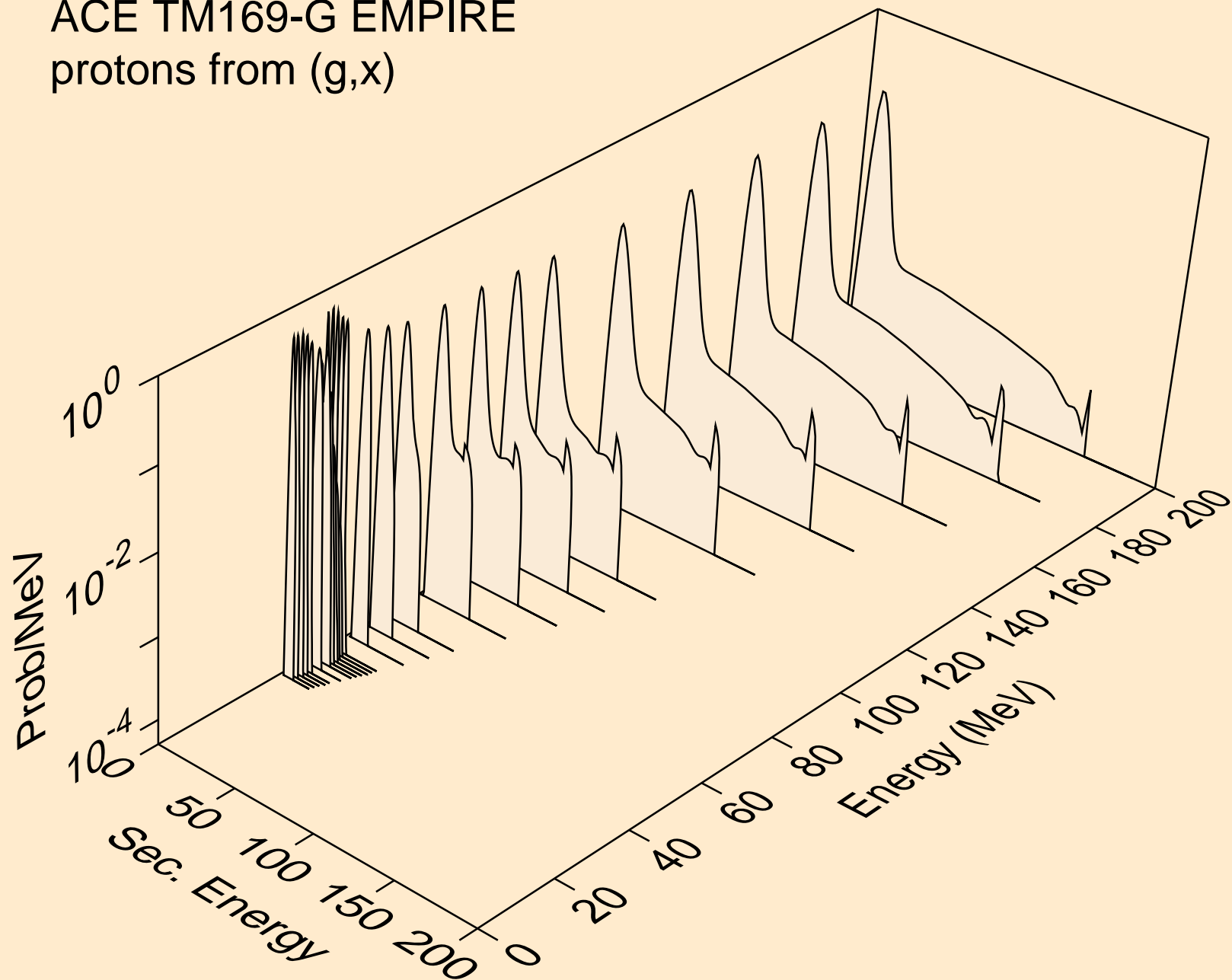


ACE TM169-G EMPIRE
photons from (g,a*c)

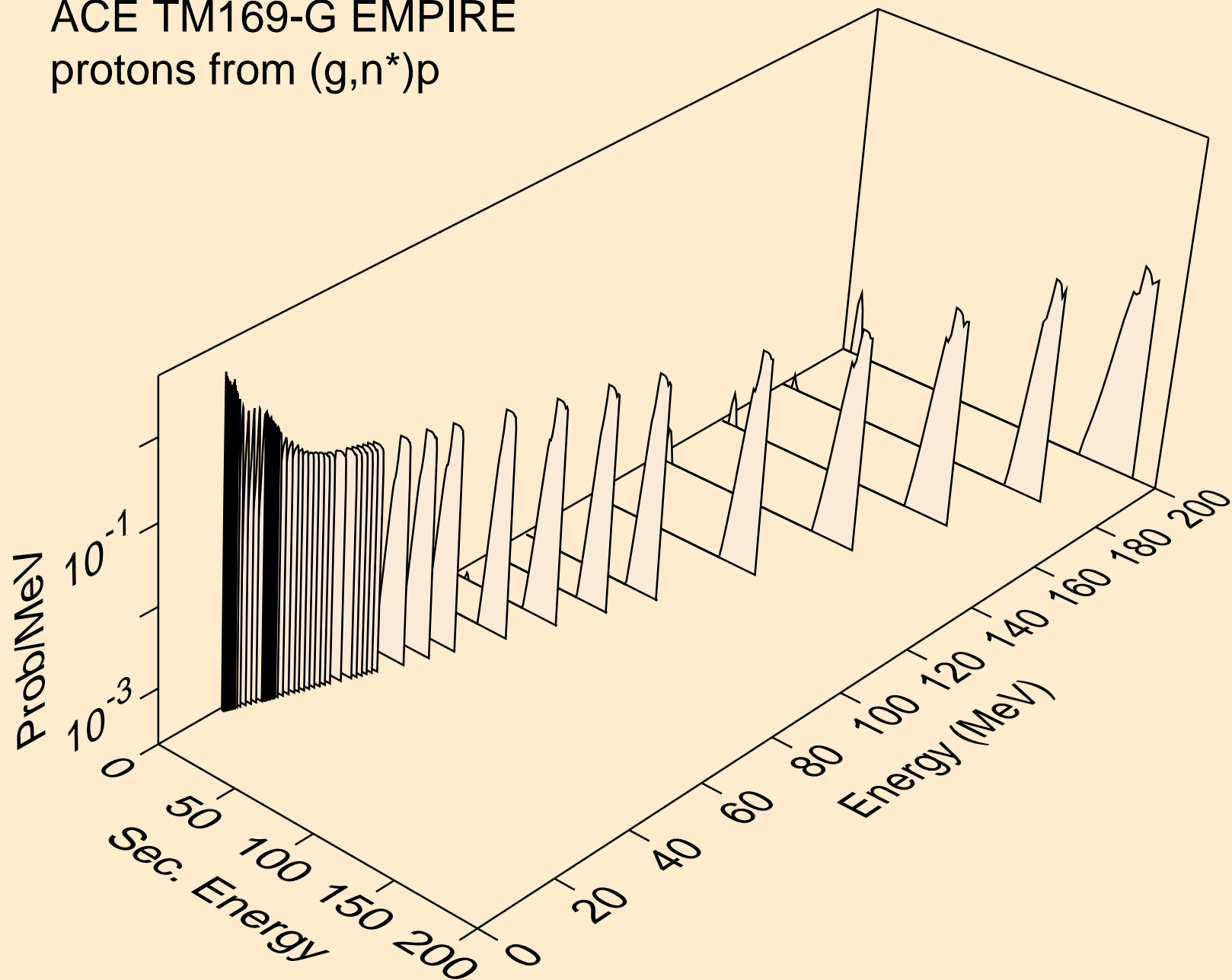


ACE TM169-G EMPIRE

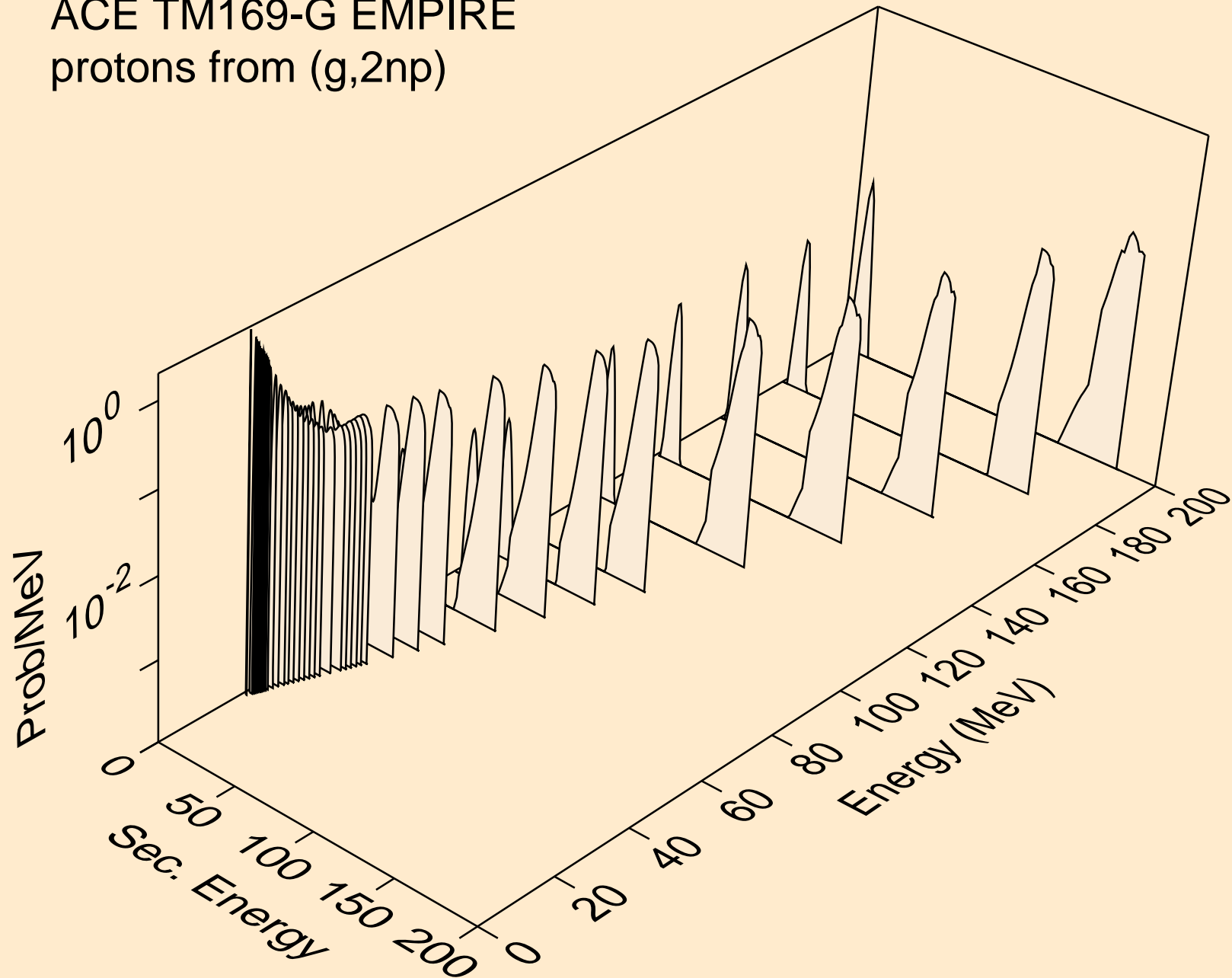
protons from (g,x)



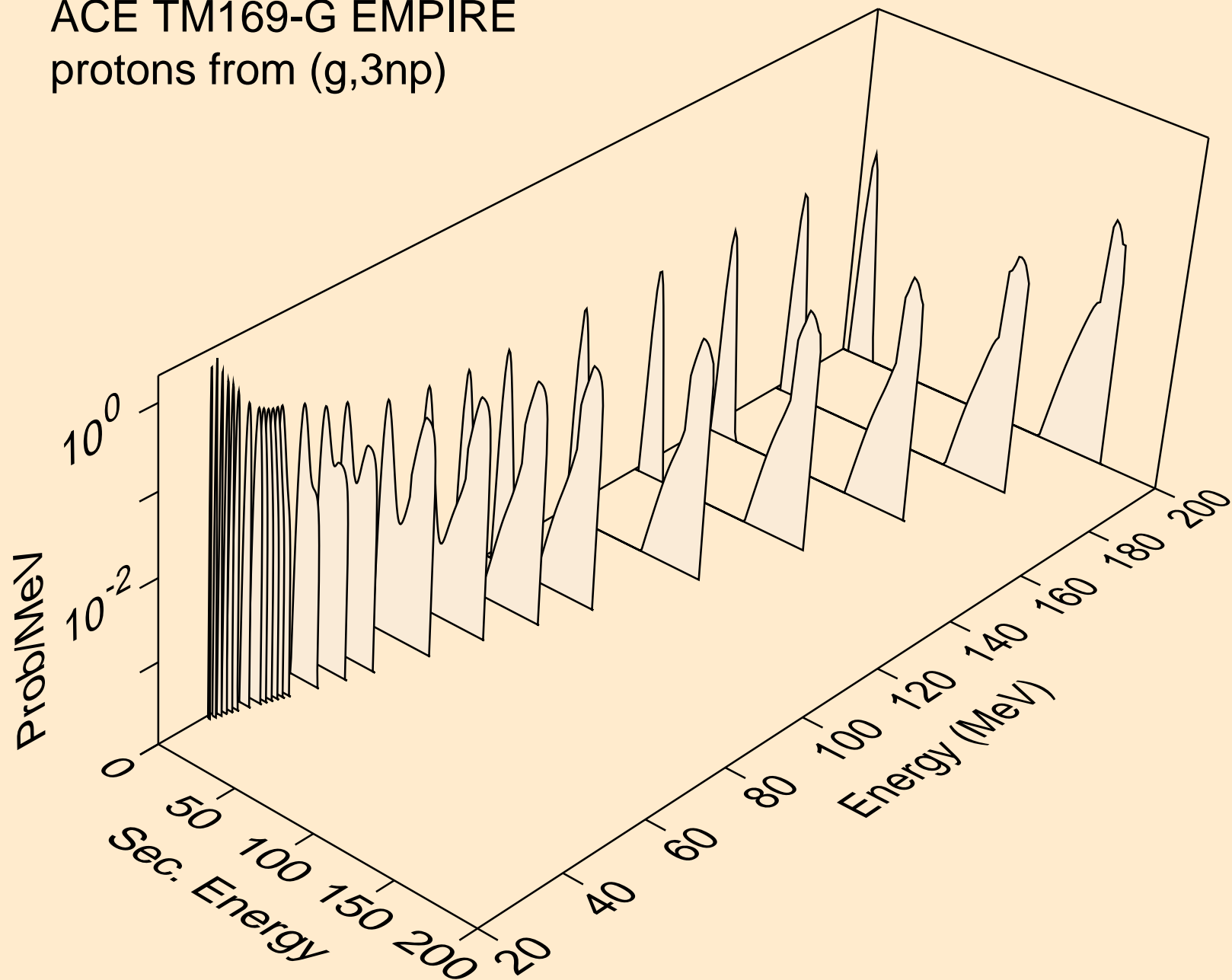
ACE TM169-G EMPIRE
protons from $(g,n^*)p$



ACE TM169-G EMPIRE
protons from (g,2np)

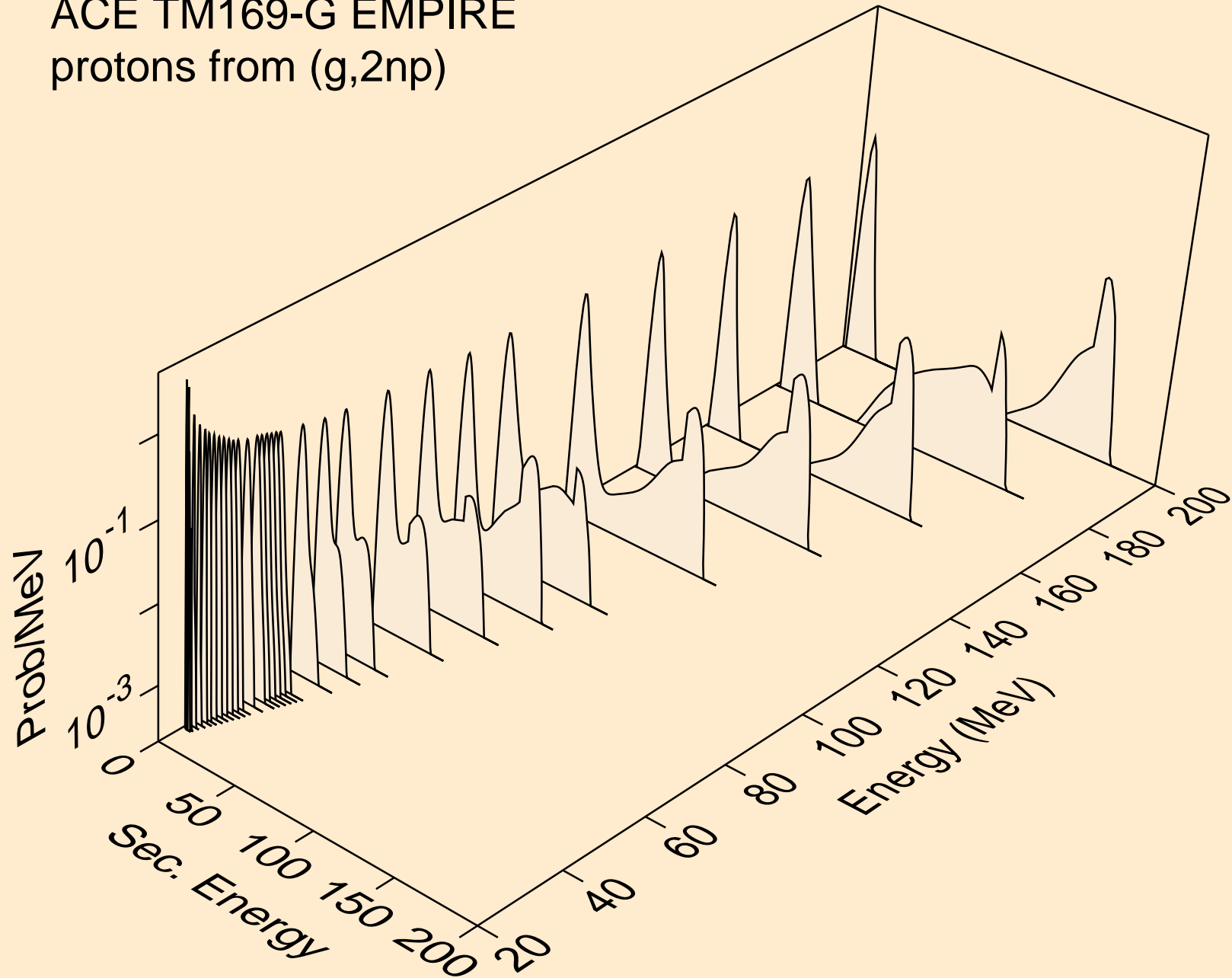


ACE TM169-G EMPIRE
protons from (g,3np)



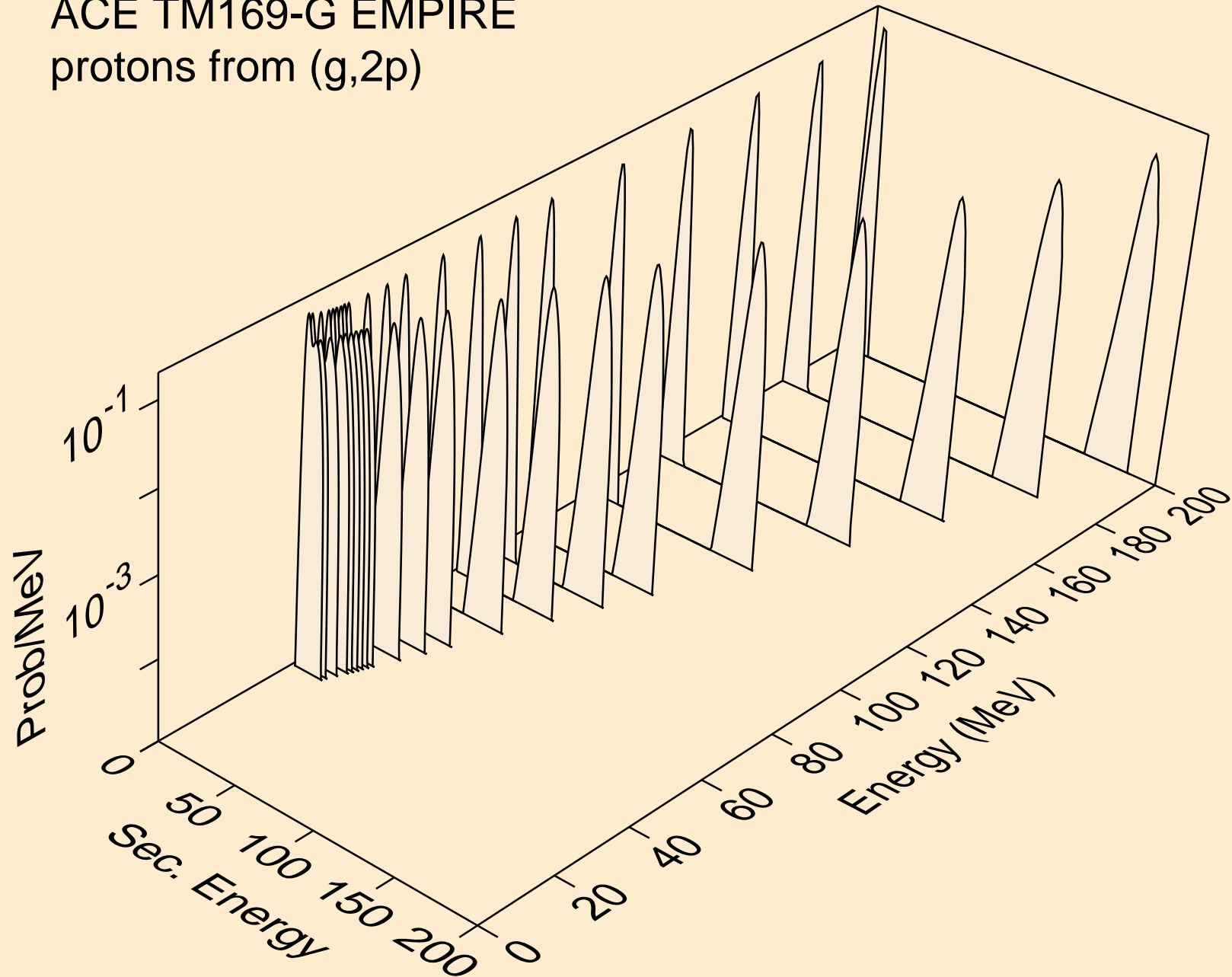
ACE TM169-G EMPIRE

protons from (g,2np)



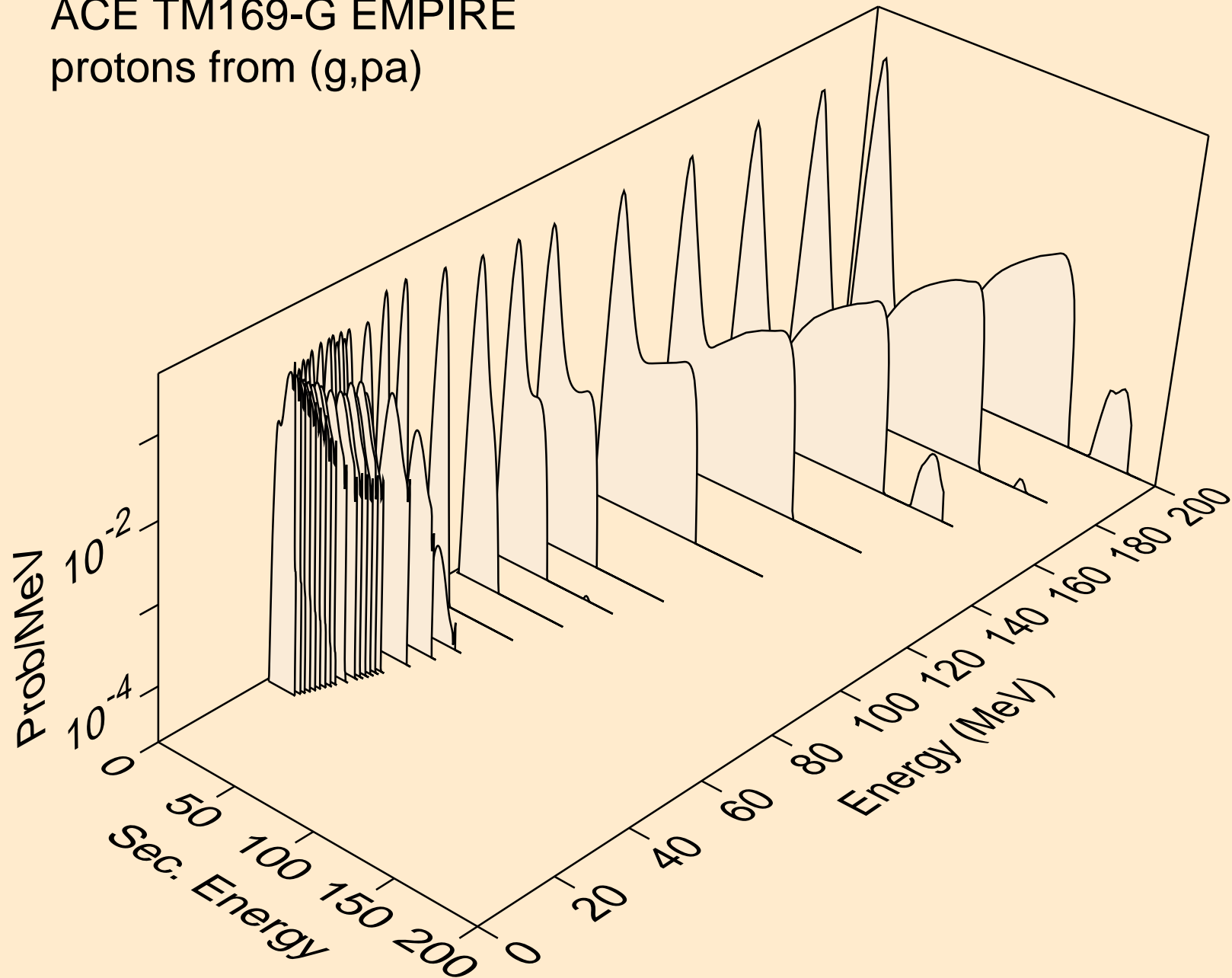
ACE TM169-G EMPIRE

protons from (g,2p)



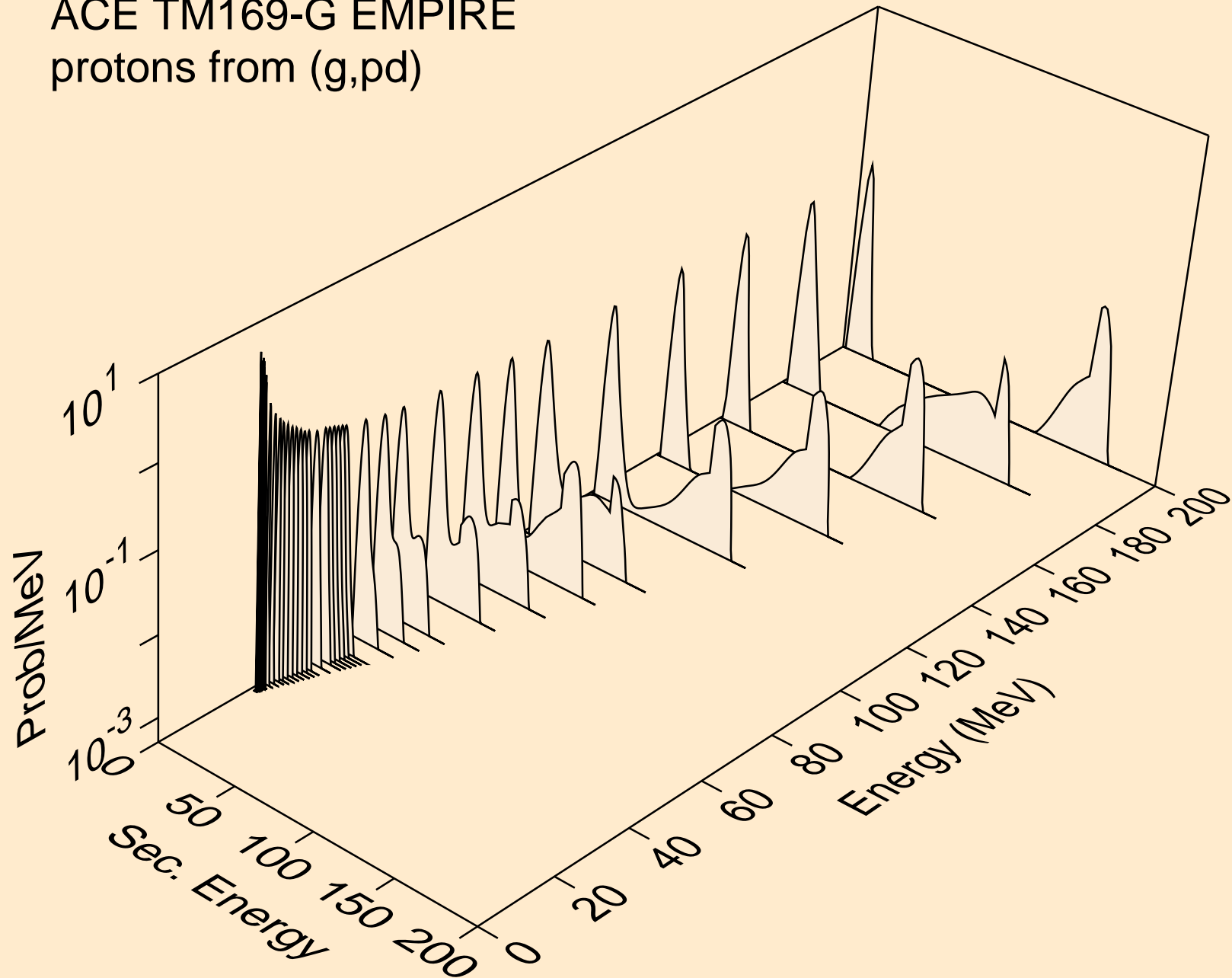
ACE TM169-G EMPIRE

protons from (g,pa)



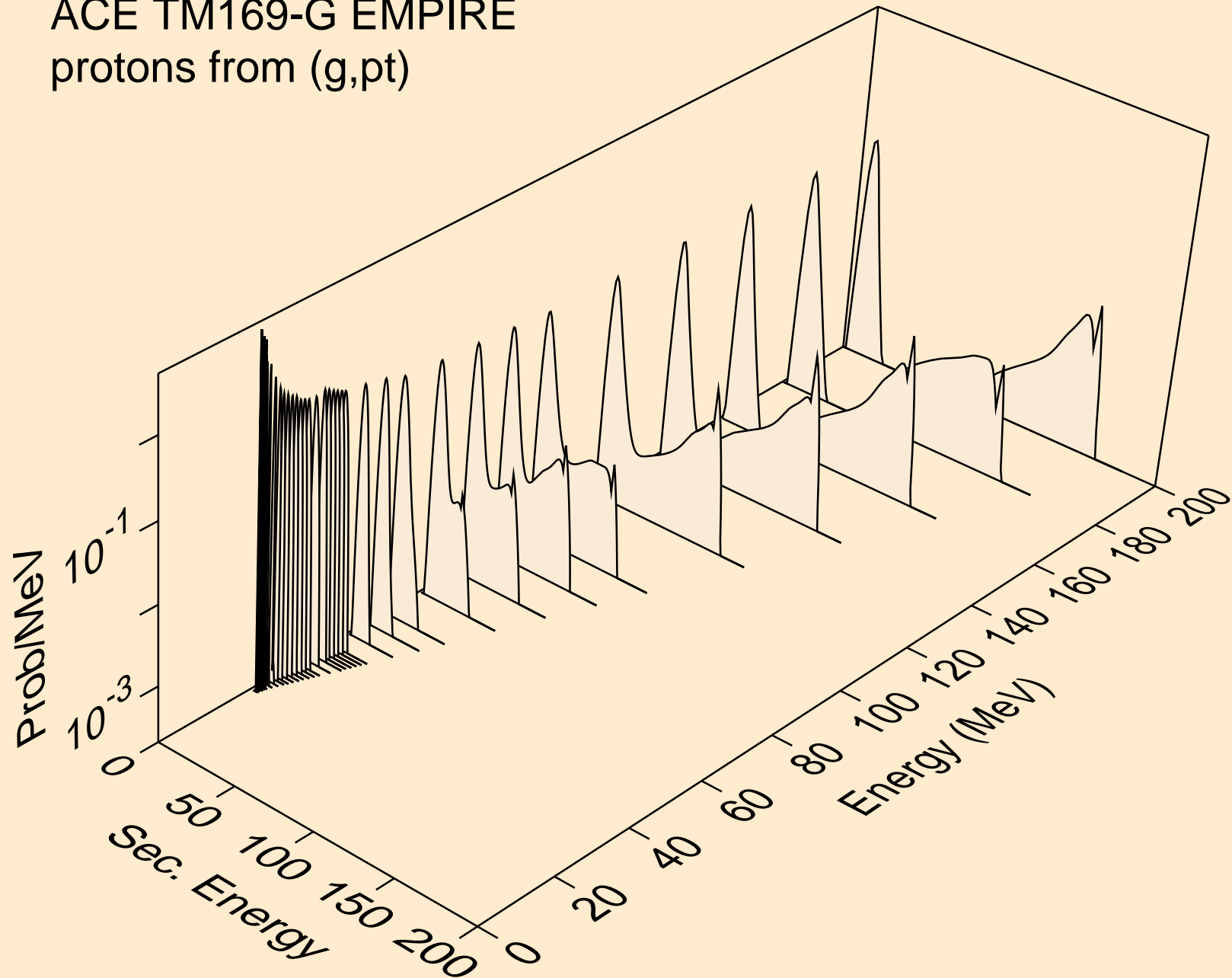
ACE TM169-G EMPIRE

protons from (g,pd)

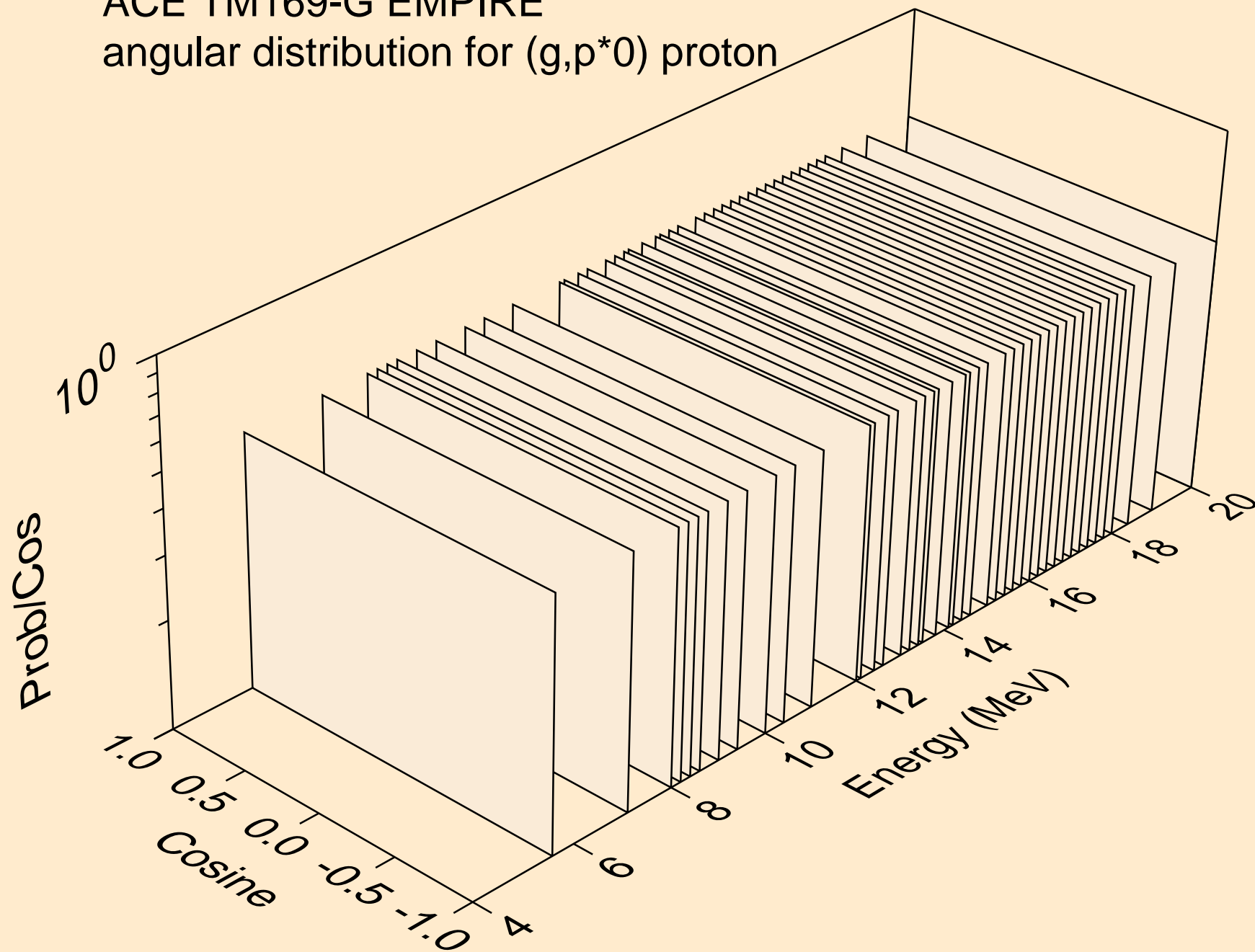


ACE TM169-G EMPIRE

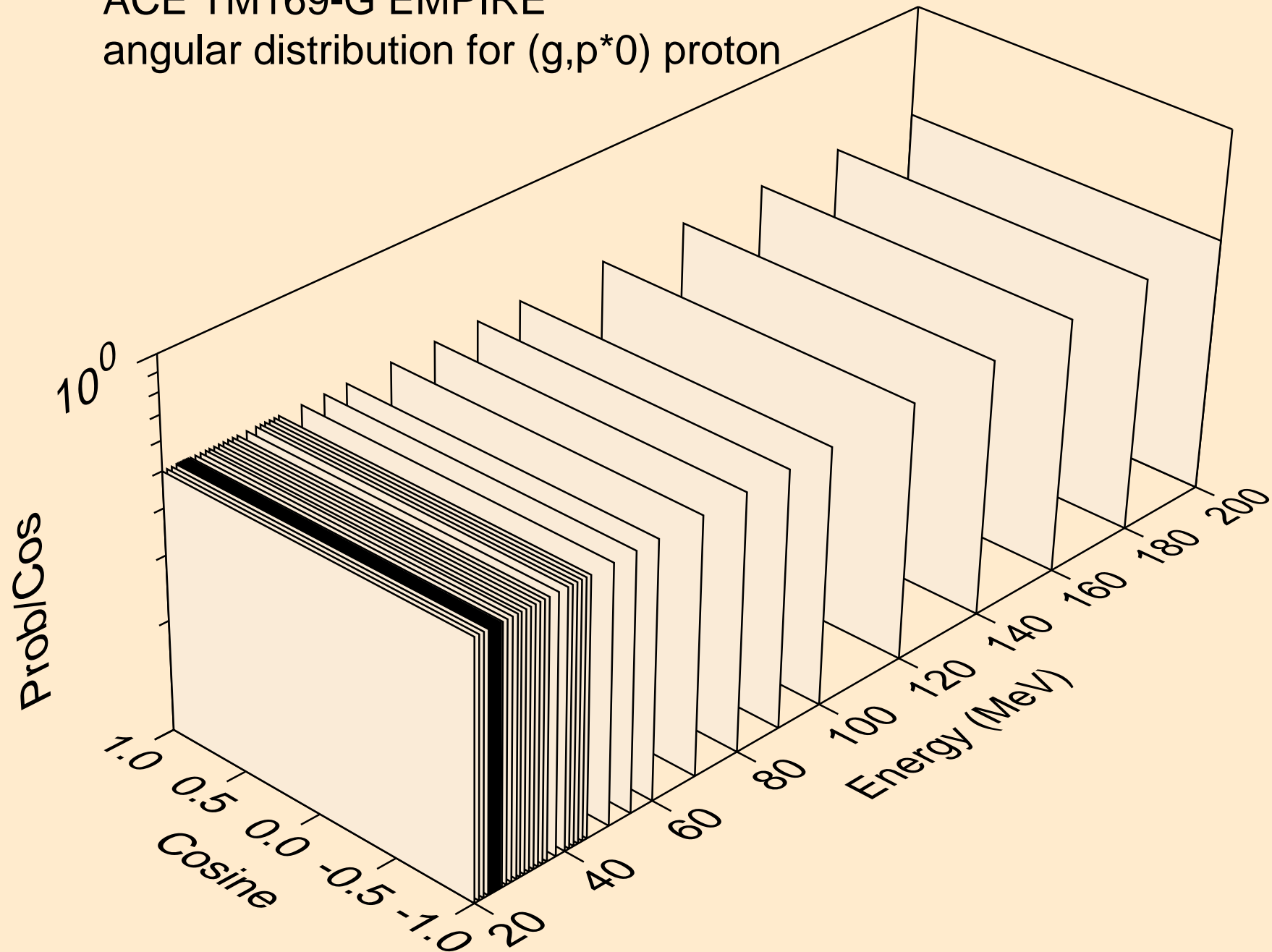
protons from (g,pt)



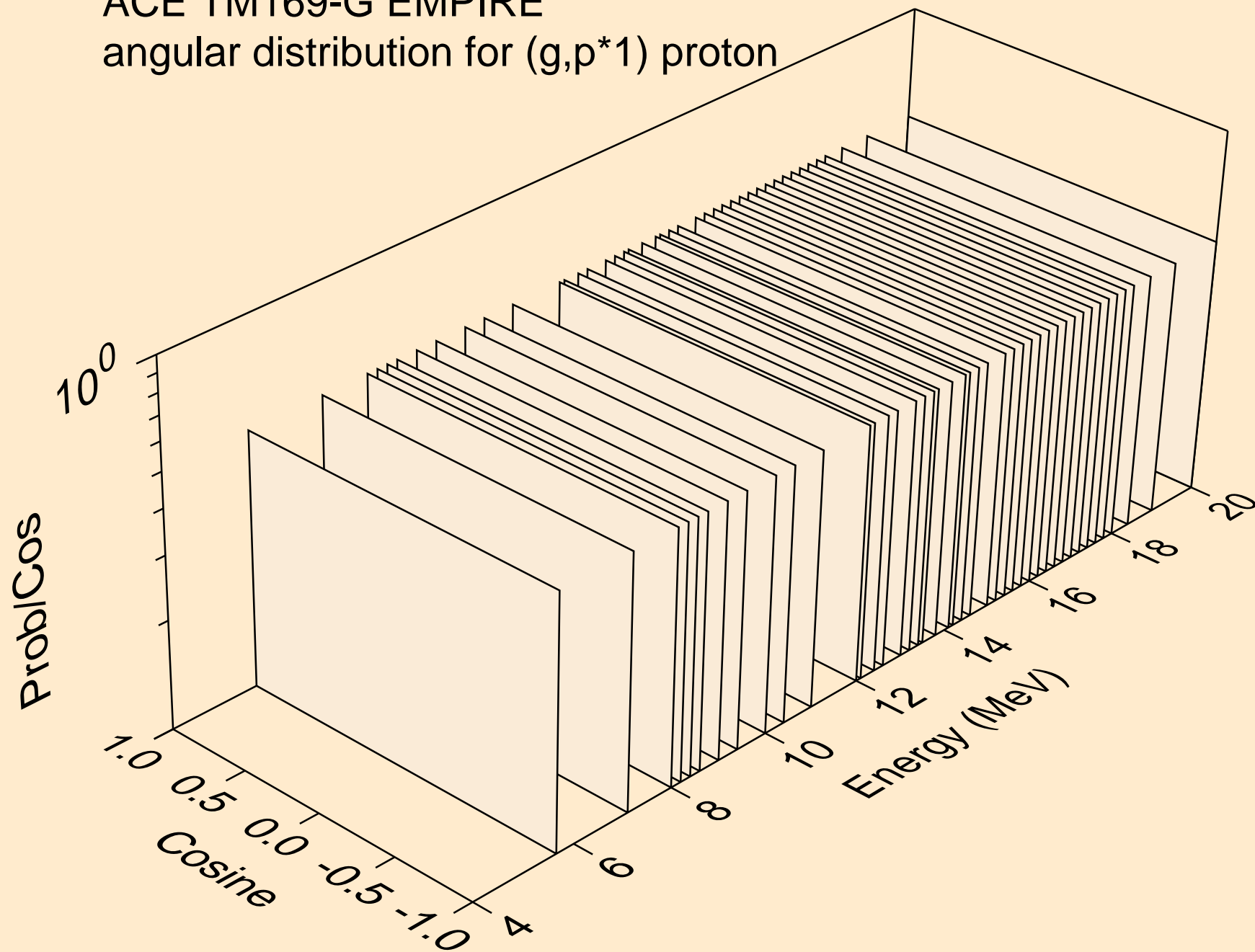
ACE TM169-G EMPIRE
angular distribution for (g,p*0) proton



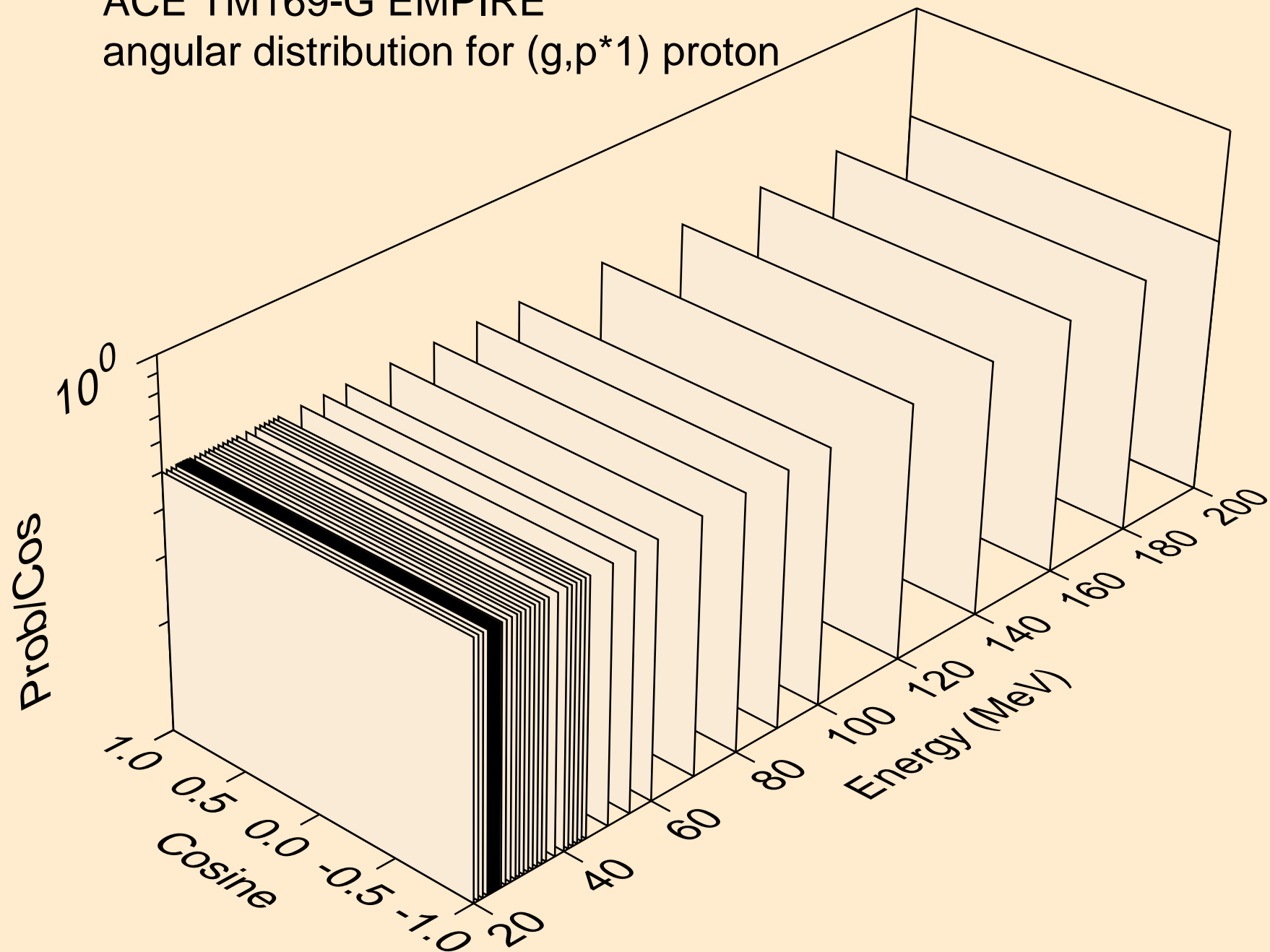
ACE TM169-G EMPIRE
angular distribution for (g,p*0) proton



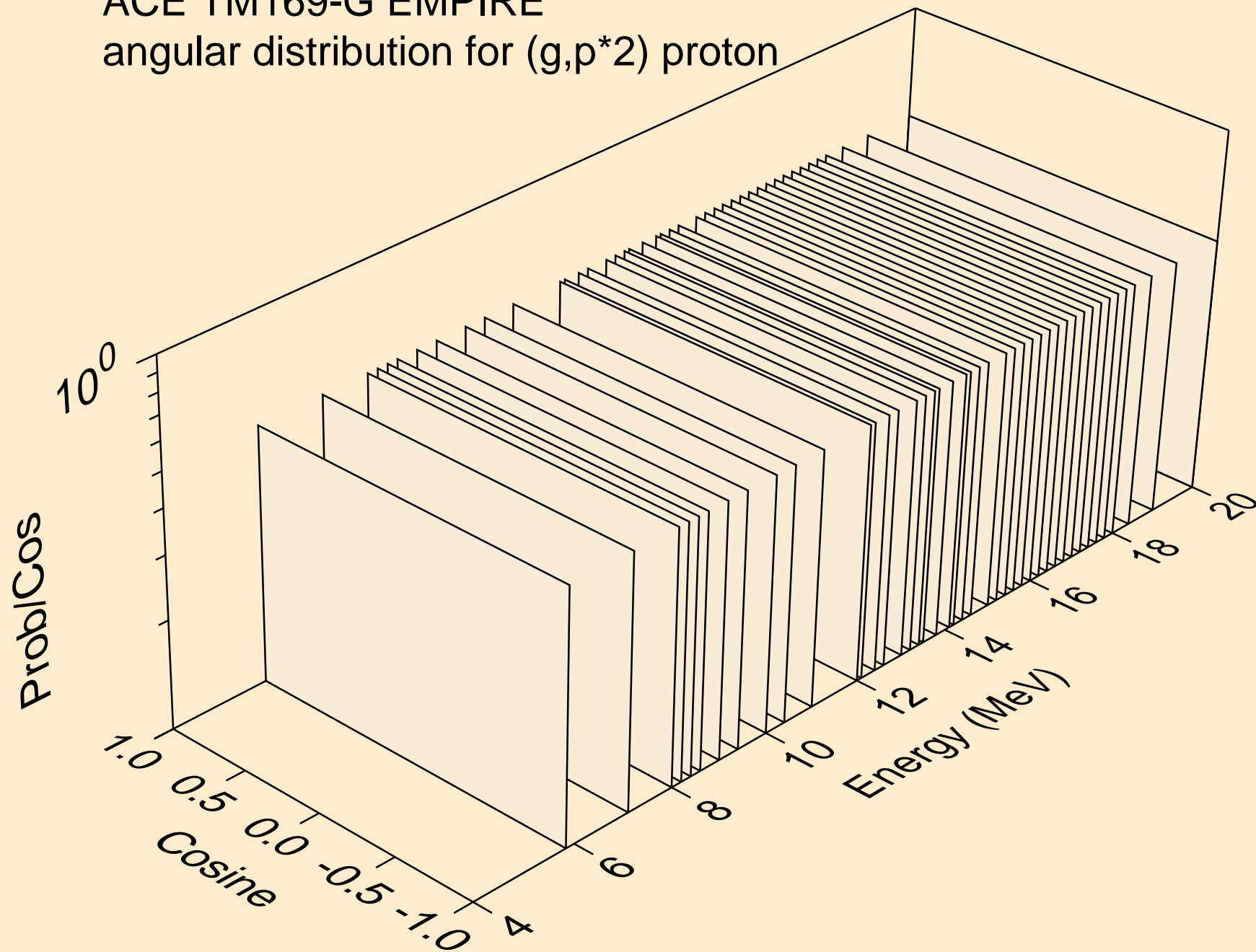
ACE TM169-G EMPIRE
angular distribution for (g,p*1) proton



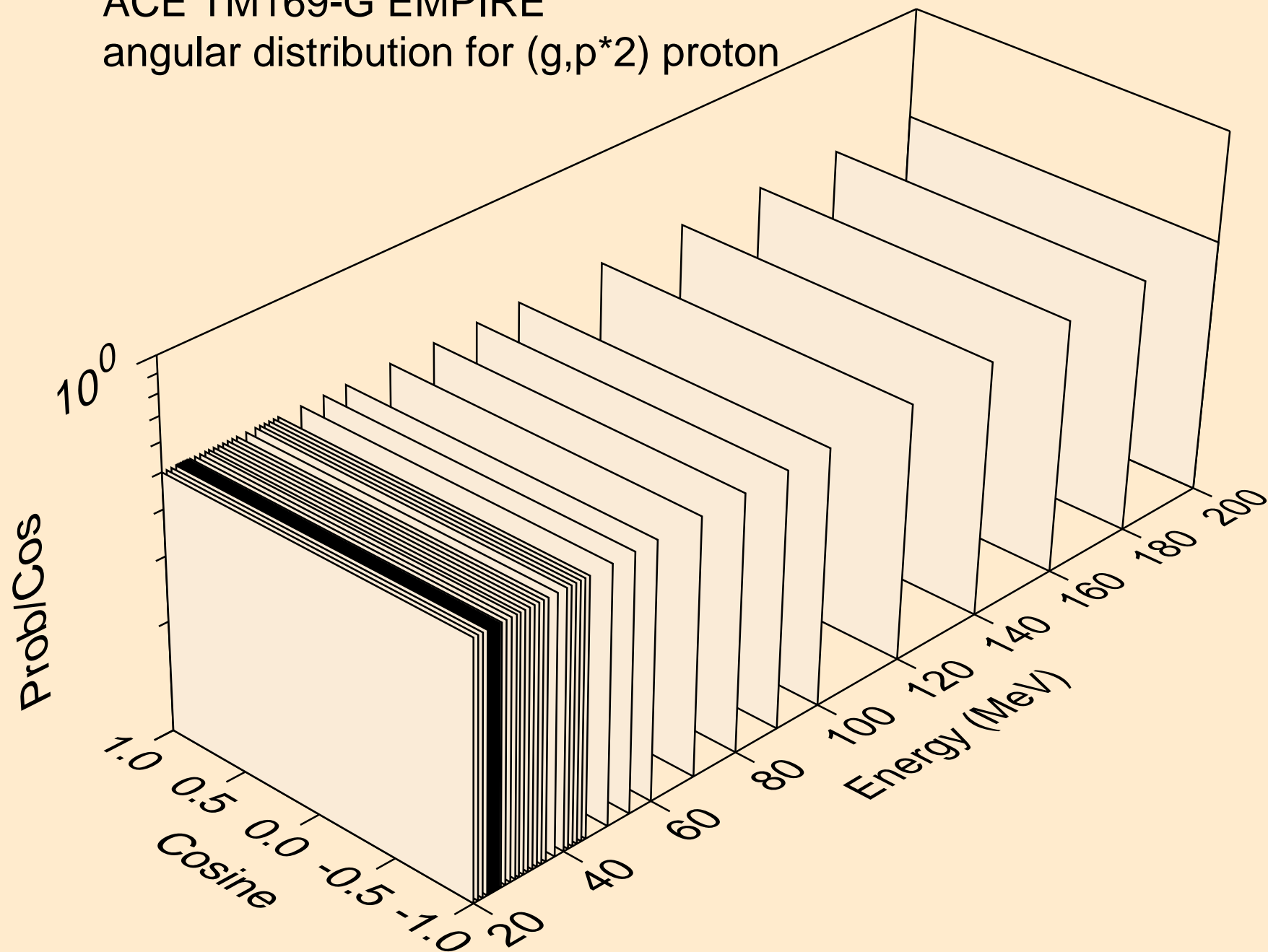
ACE TM169-G EMPIRE
angular distribution for (g,p*1) proton



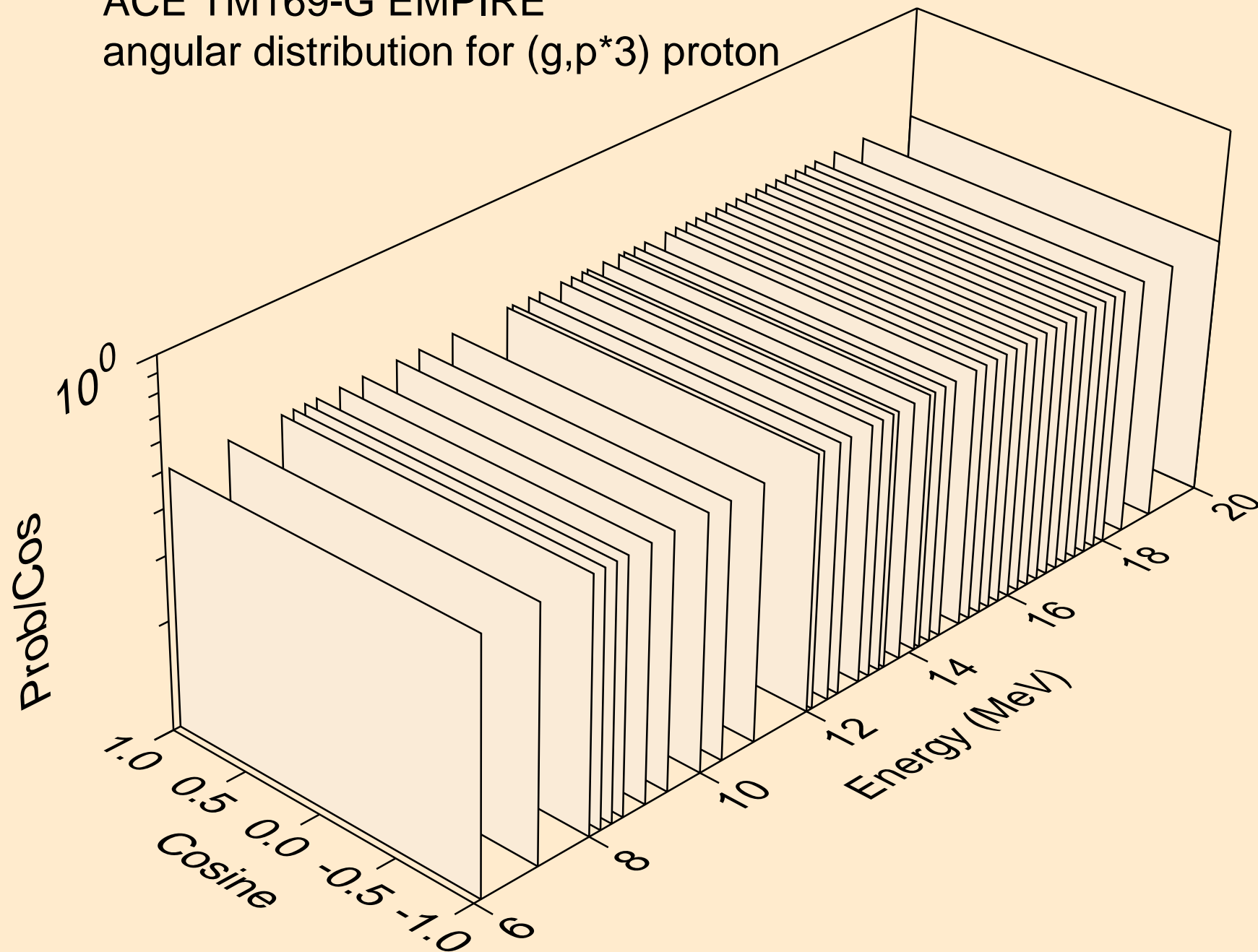
ACE TM169-G EMPIRE
angular distribution for (g,p*2) proton



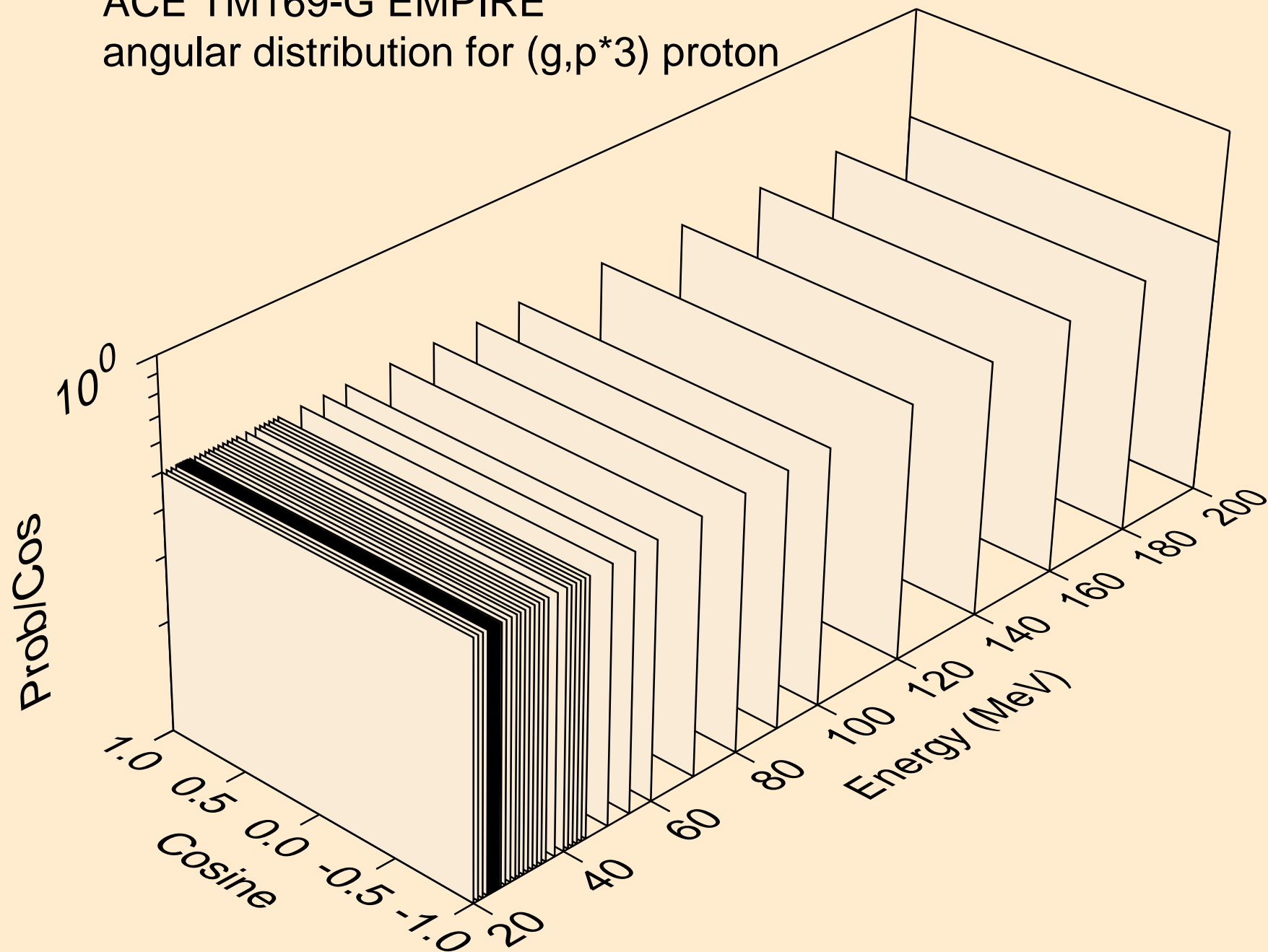
ACE TM169-G EMPIRE
angular distribution for (g,p*2) proton



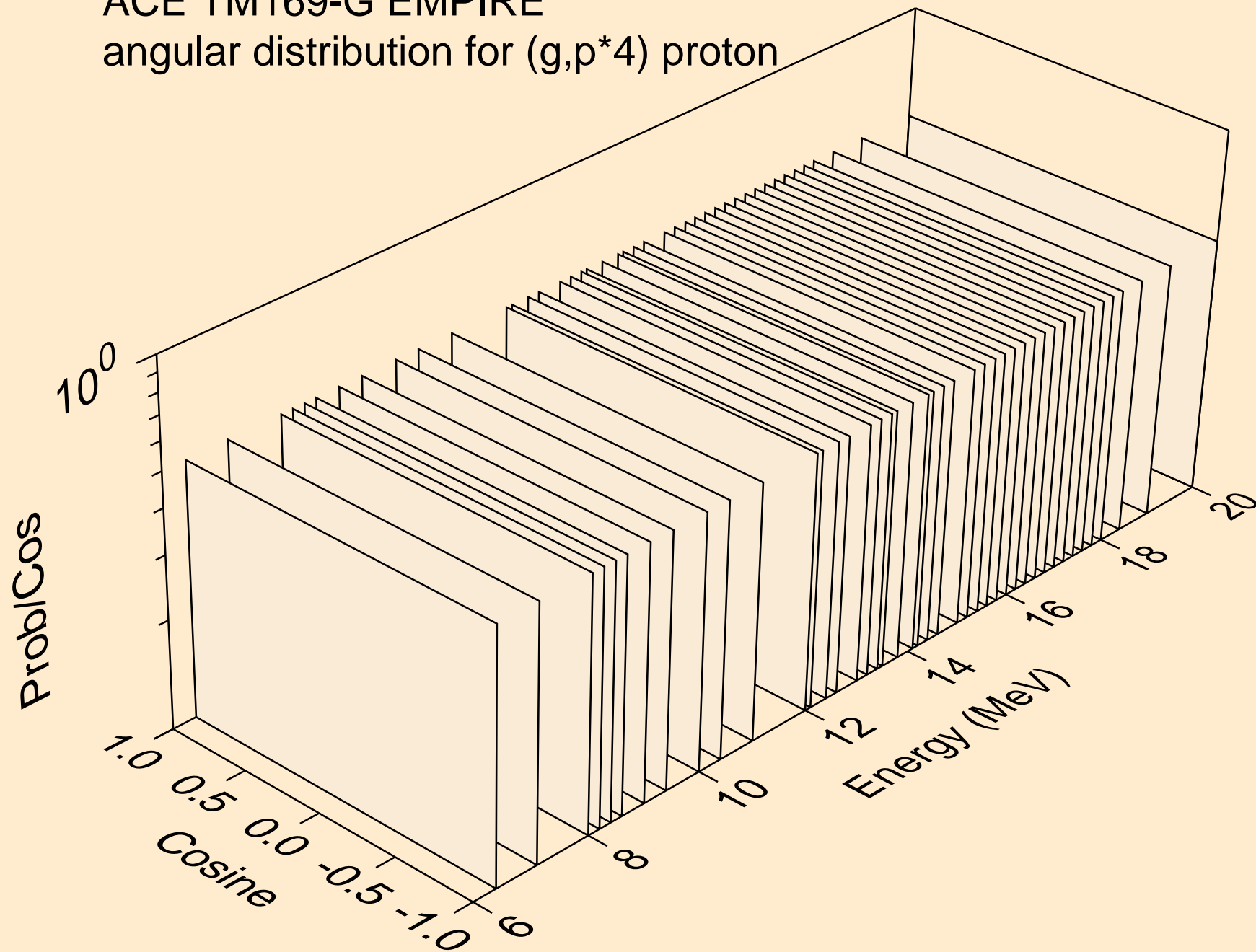
ACE TM169-G EMPIRE
angular distribution for (g,p*3) proton



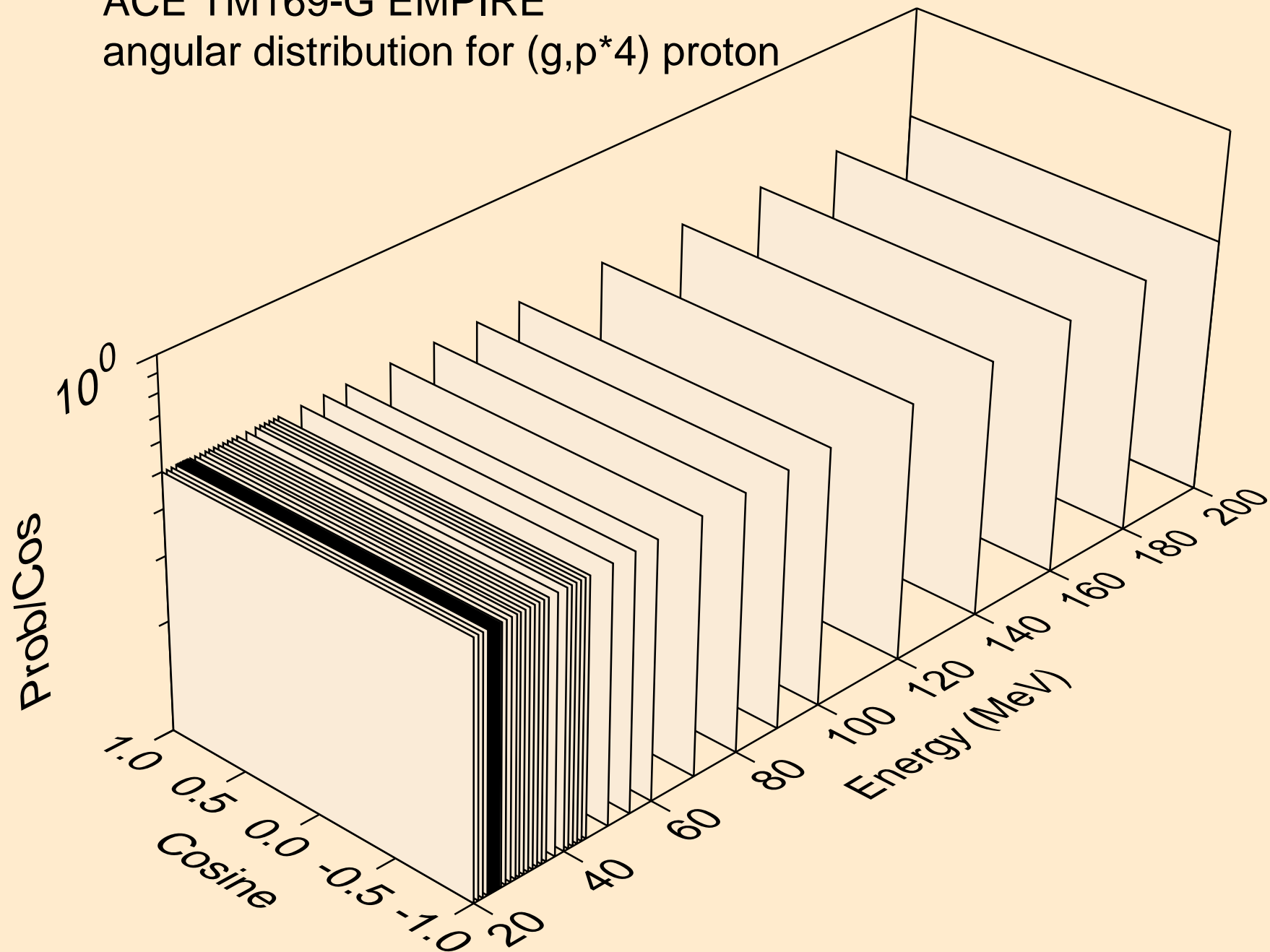
ACE TM169-G EMPIRE
angular distribution for (g,p*3) proton



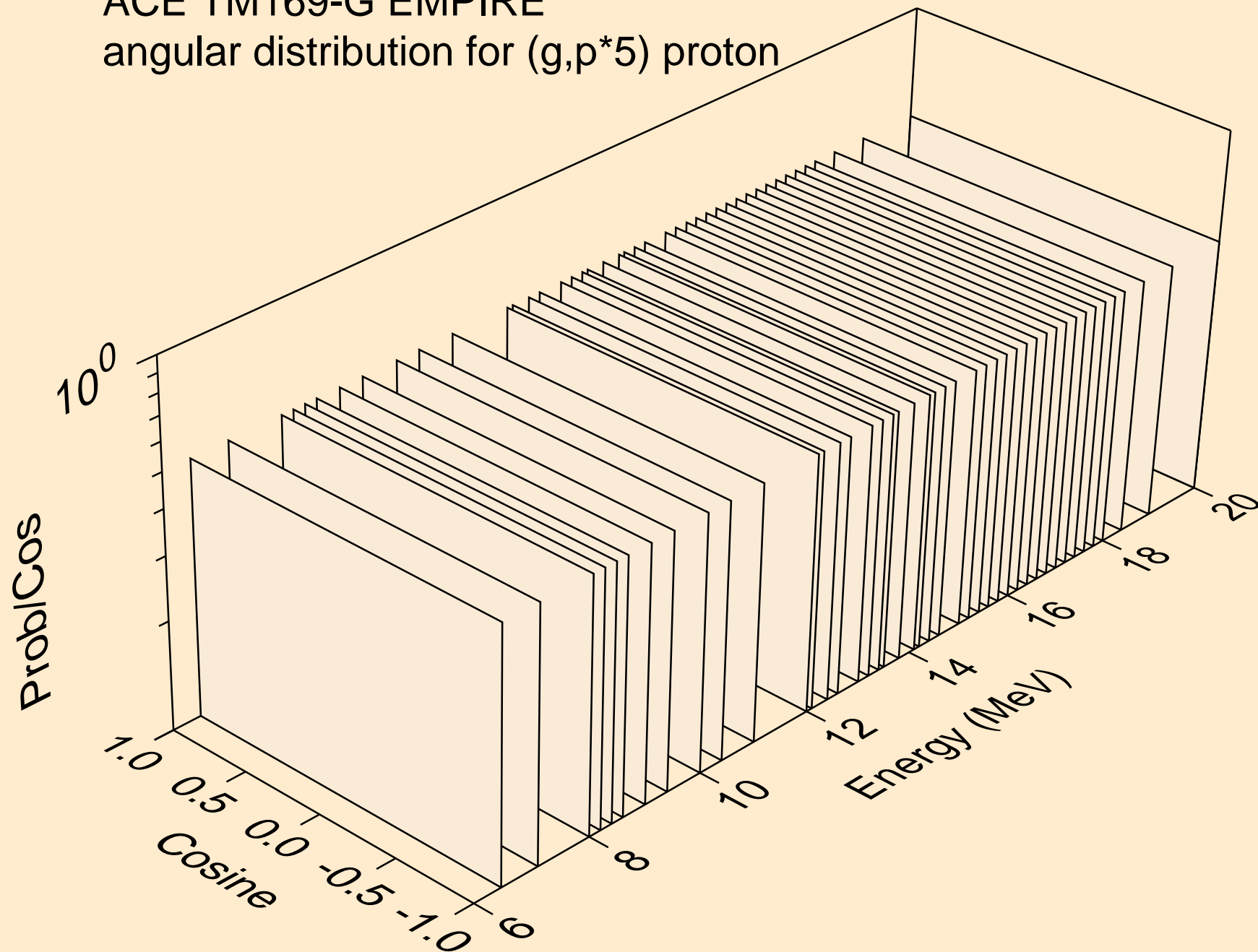
ACE TM169-G EMPIRE
angular distribution for (g,p*4) proton



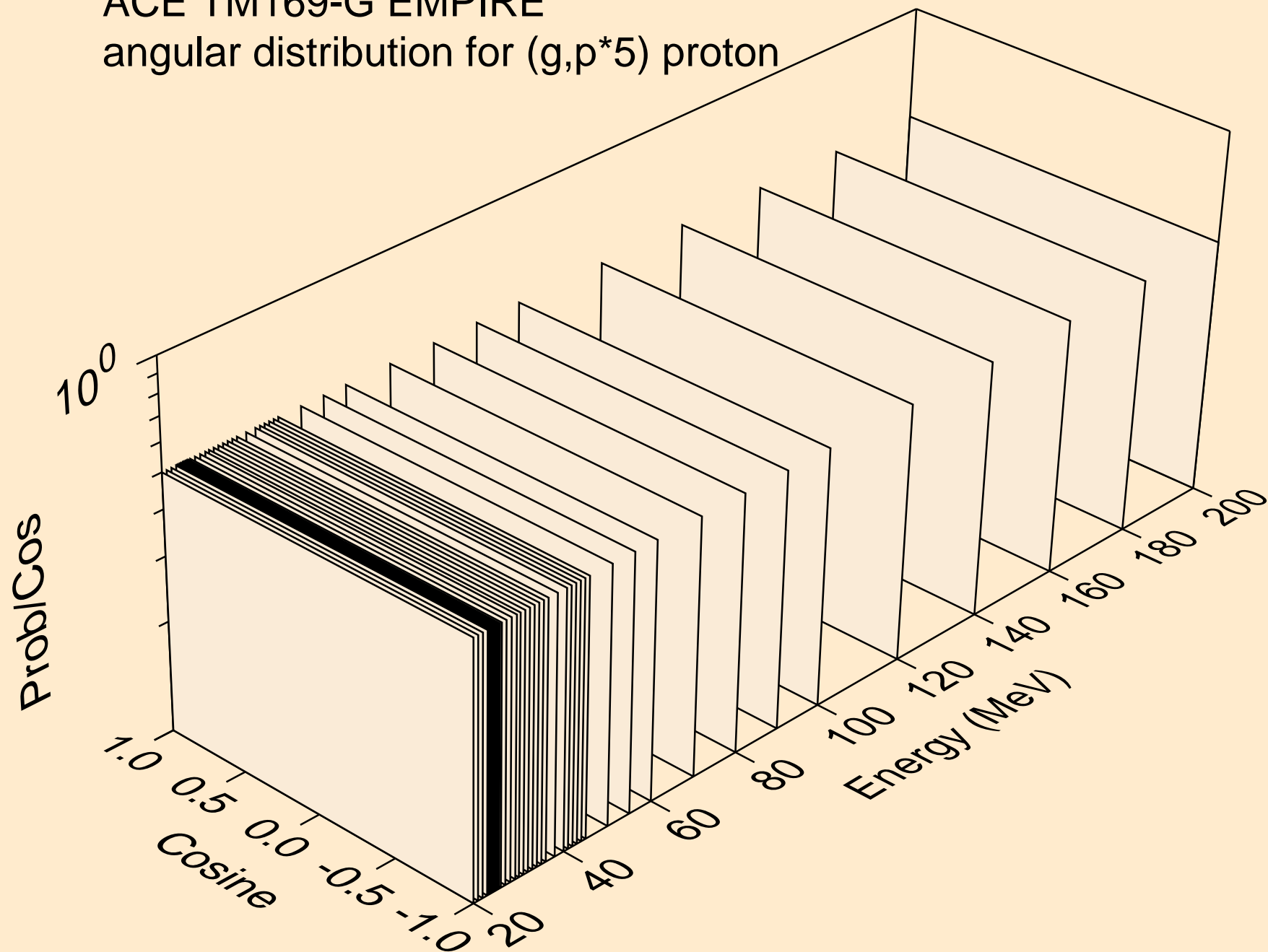
ACE TM169-G EMPIRE
angular distribution for (g,p*4) proton



ACE TM169-G EMPIRE
angular distribution for (g,p*5) proton

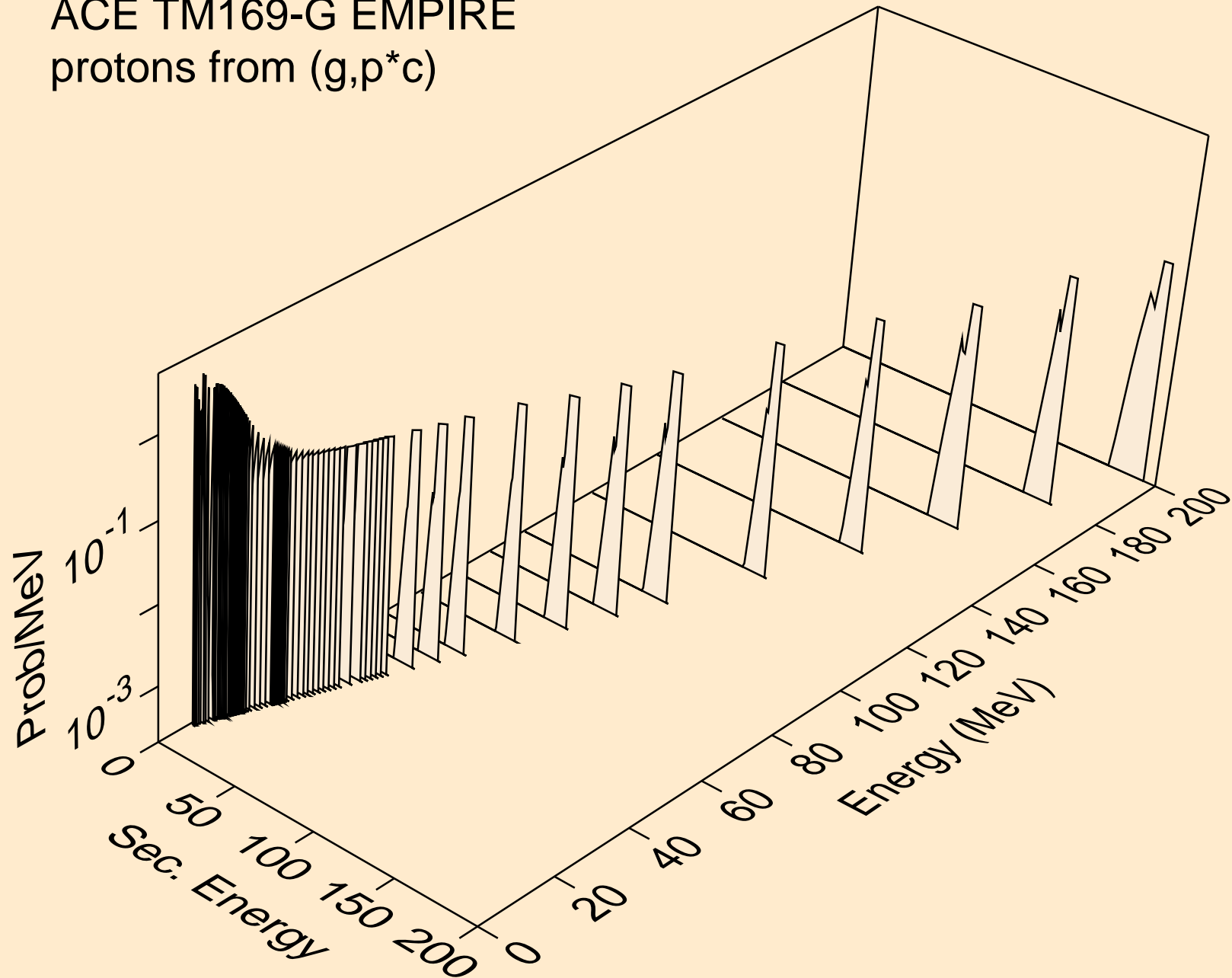


ACE TM169-G EMPIRE
angular distribution for (g,p*5) proton



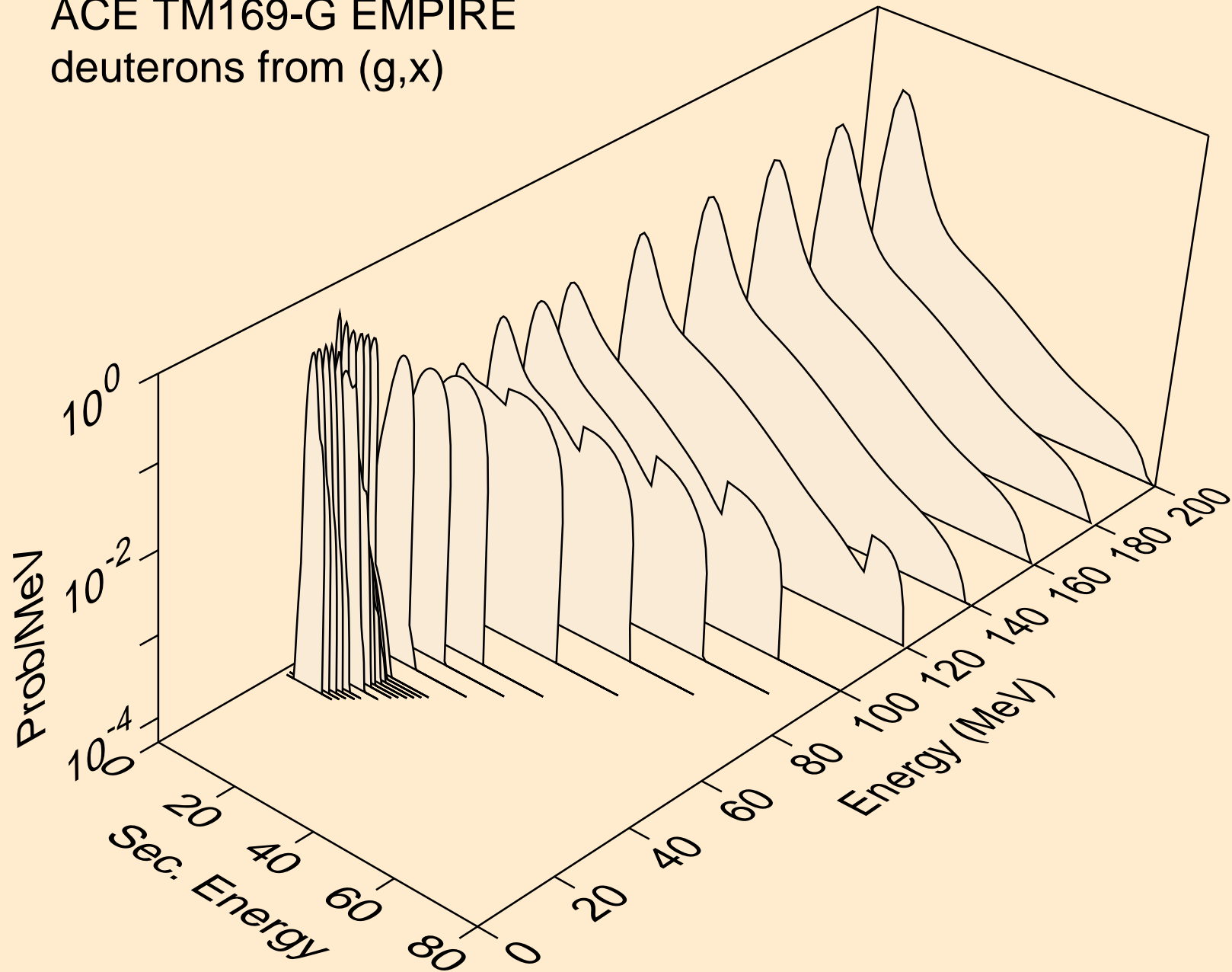
ACE TM169-G EMPIRE

protons from (g,p*c)

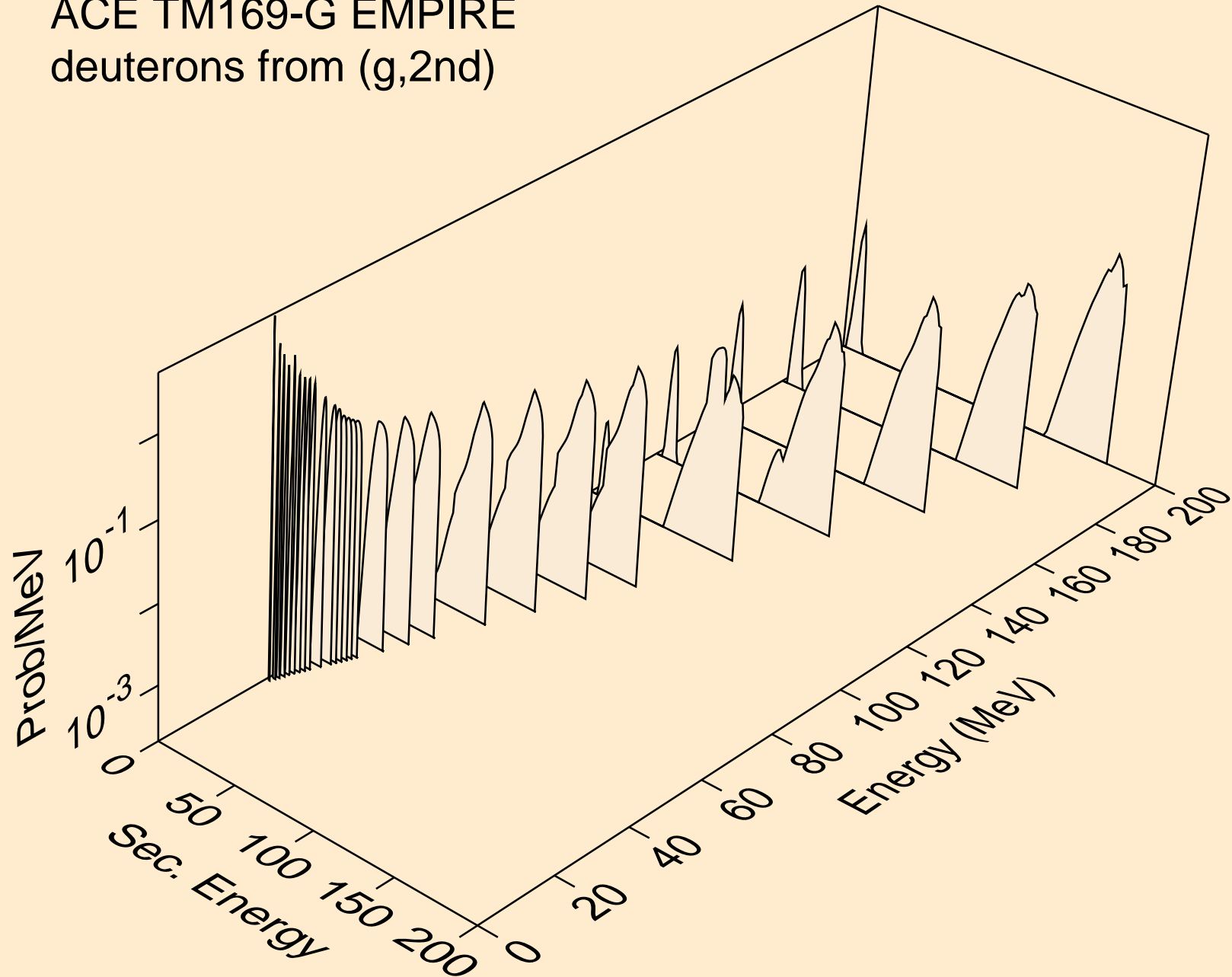


ACE TM169-G EMPIRE

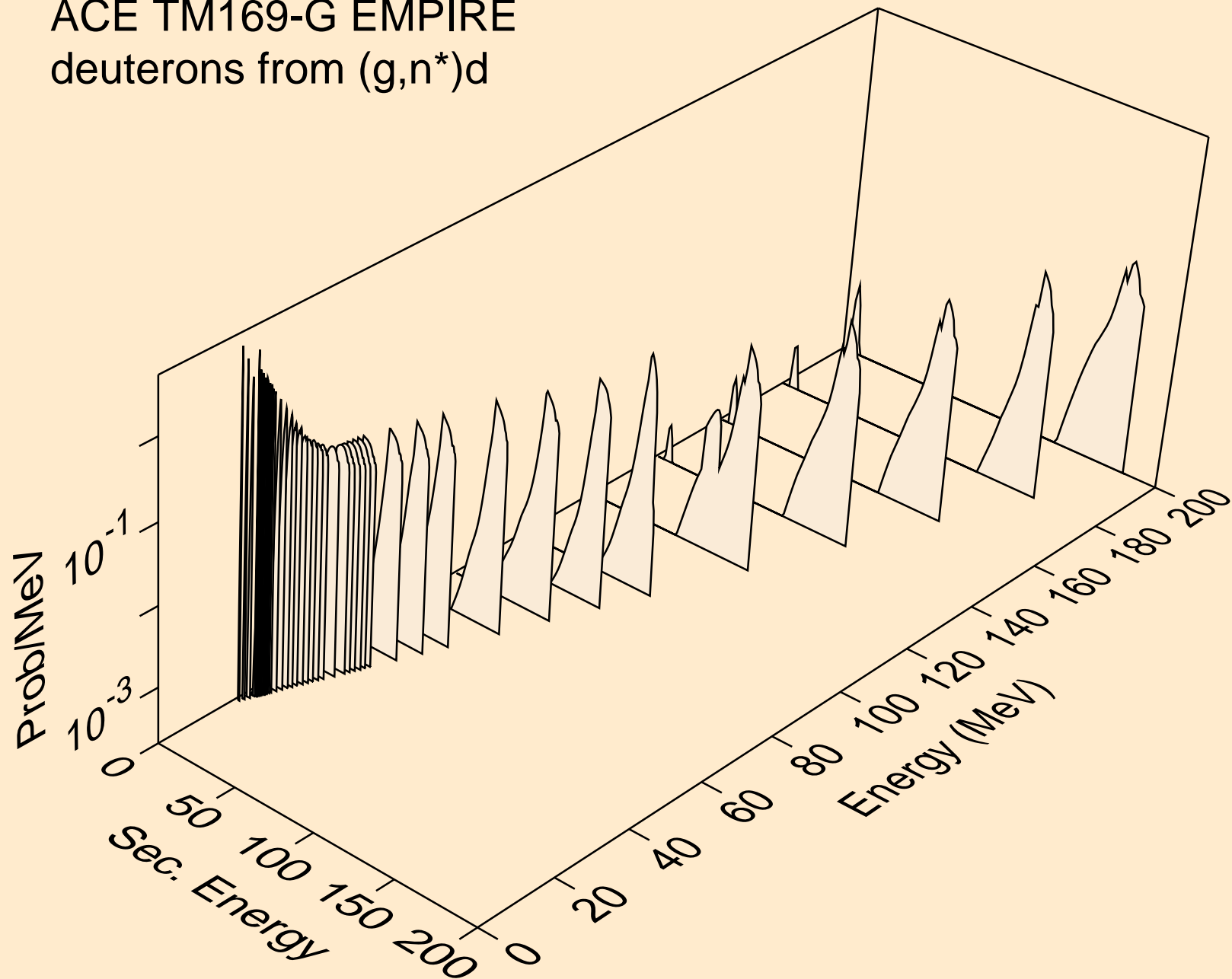
deuterons from (g,x)



ACE TM169-G EMPIRE
deuterons from (g,2nd)

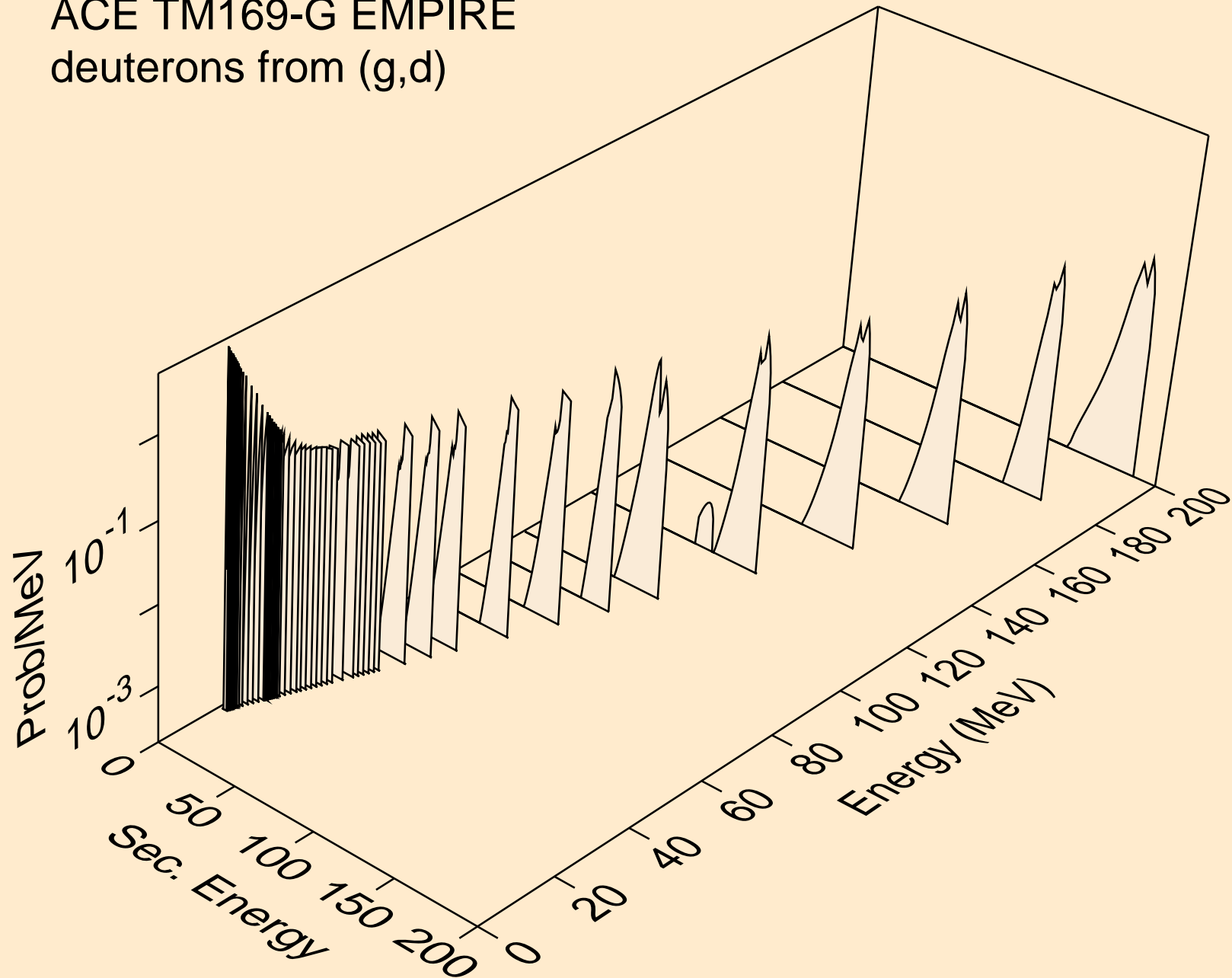


ACE TM169-G EMPIRE
deuterons from $(g,n^*)d$

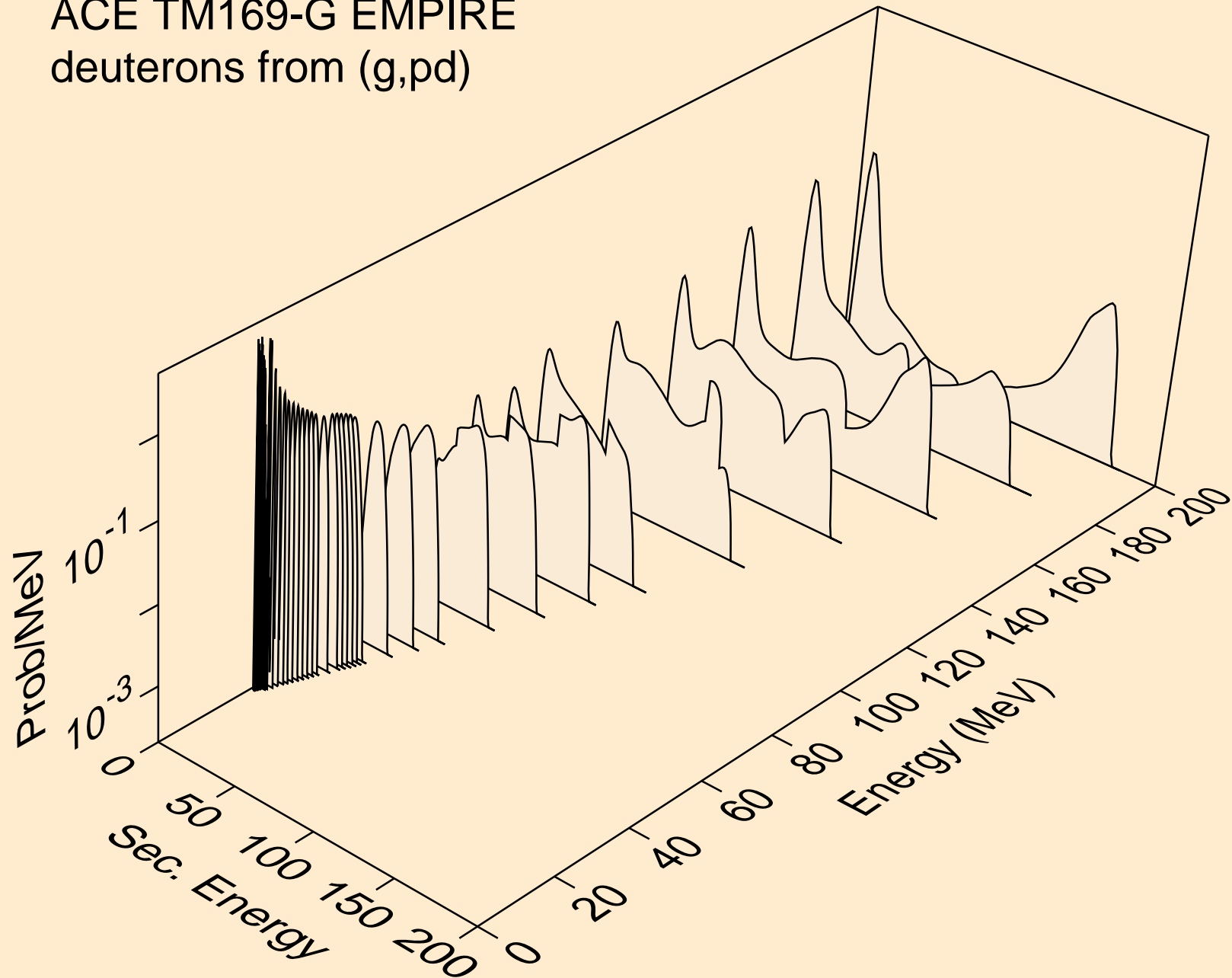


ACE TM169-G EMPIRE

deuterons from (g,d)

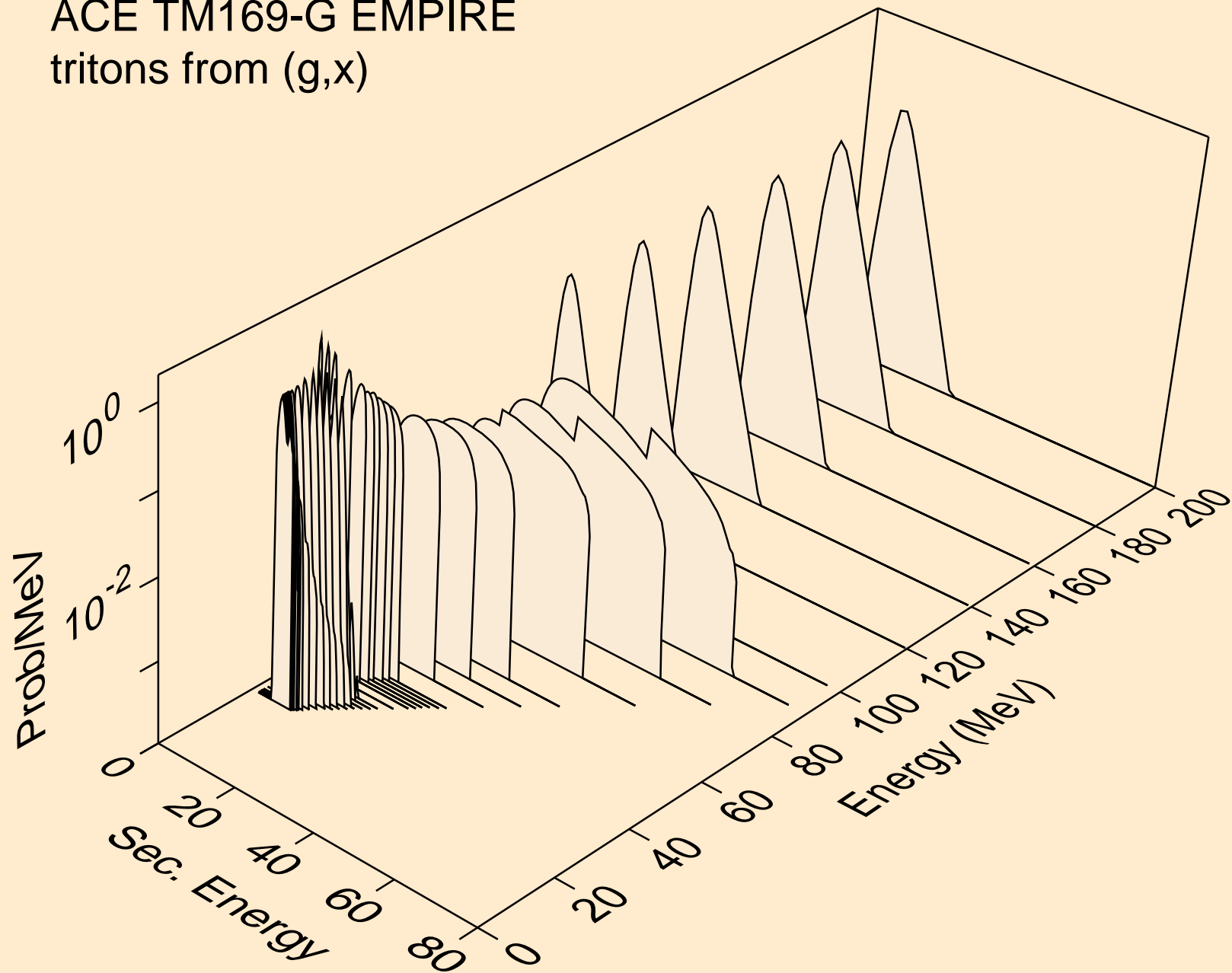


ACE TM169-G EMPIRE
deuterons from (g,pd)



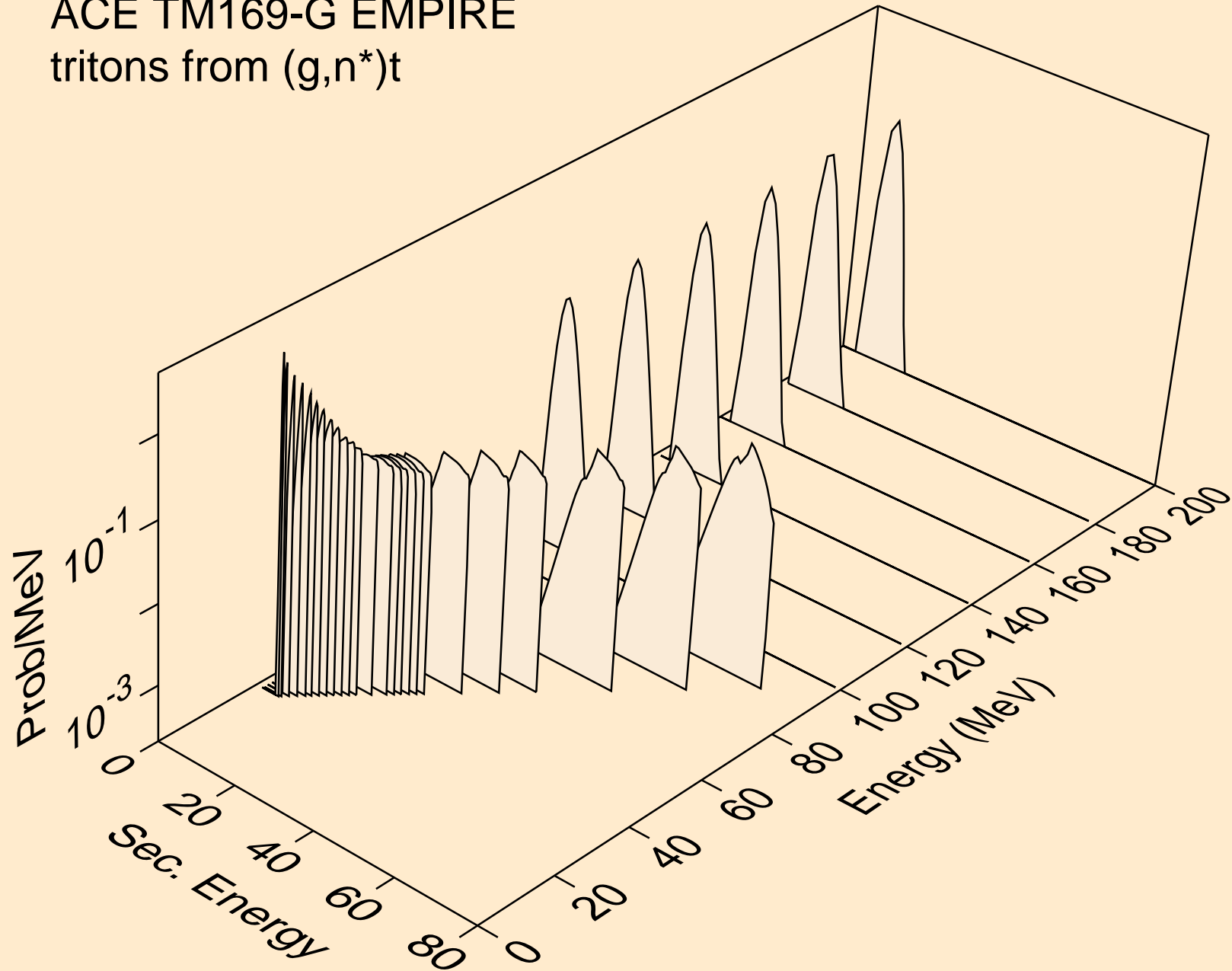
ACE TM169-G EMPIRE

tritons from (g,x)



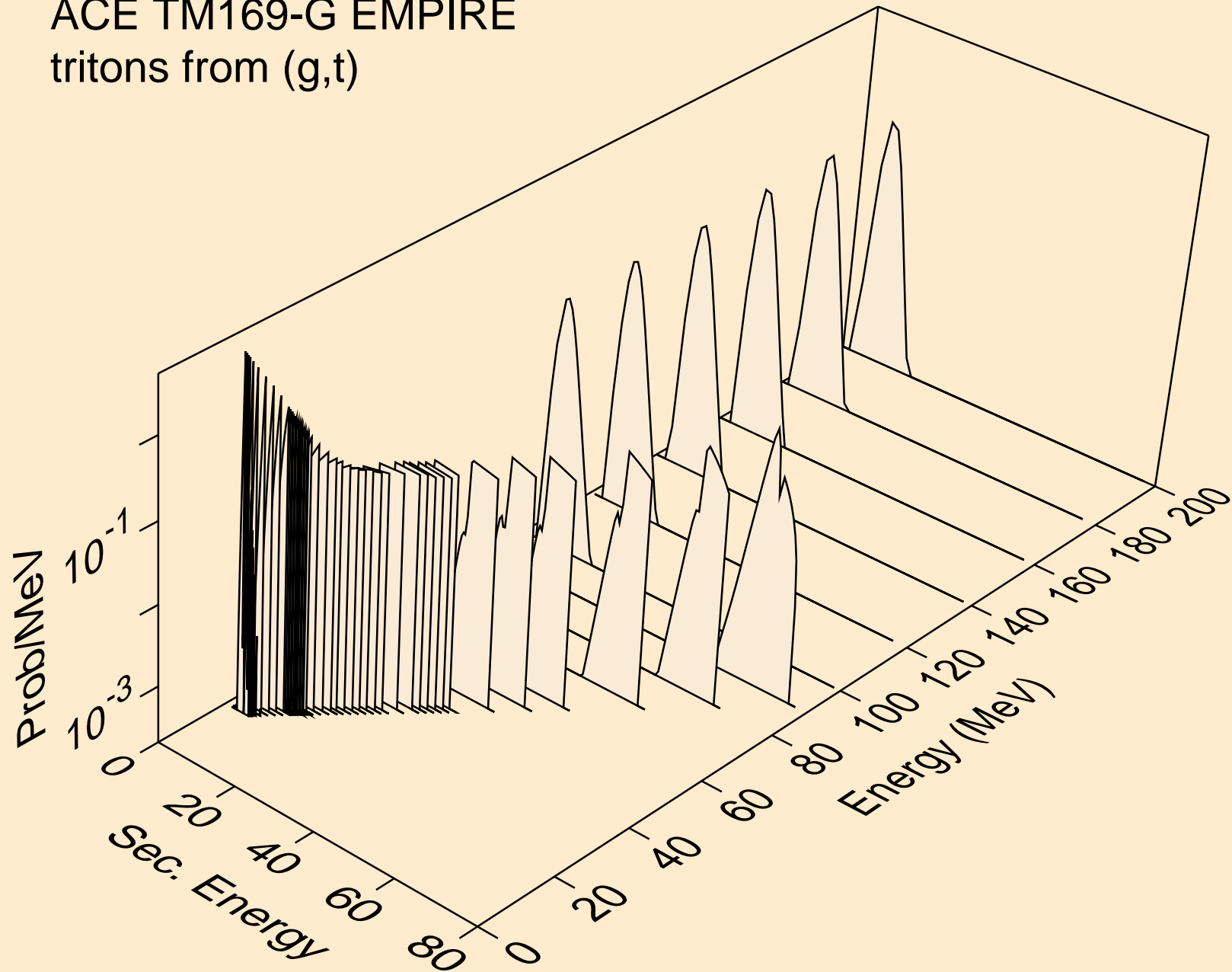
ACE TM169-G EMPIRE

tritons from $(g,n^*)t$



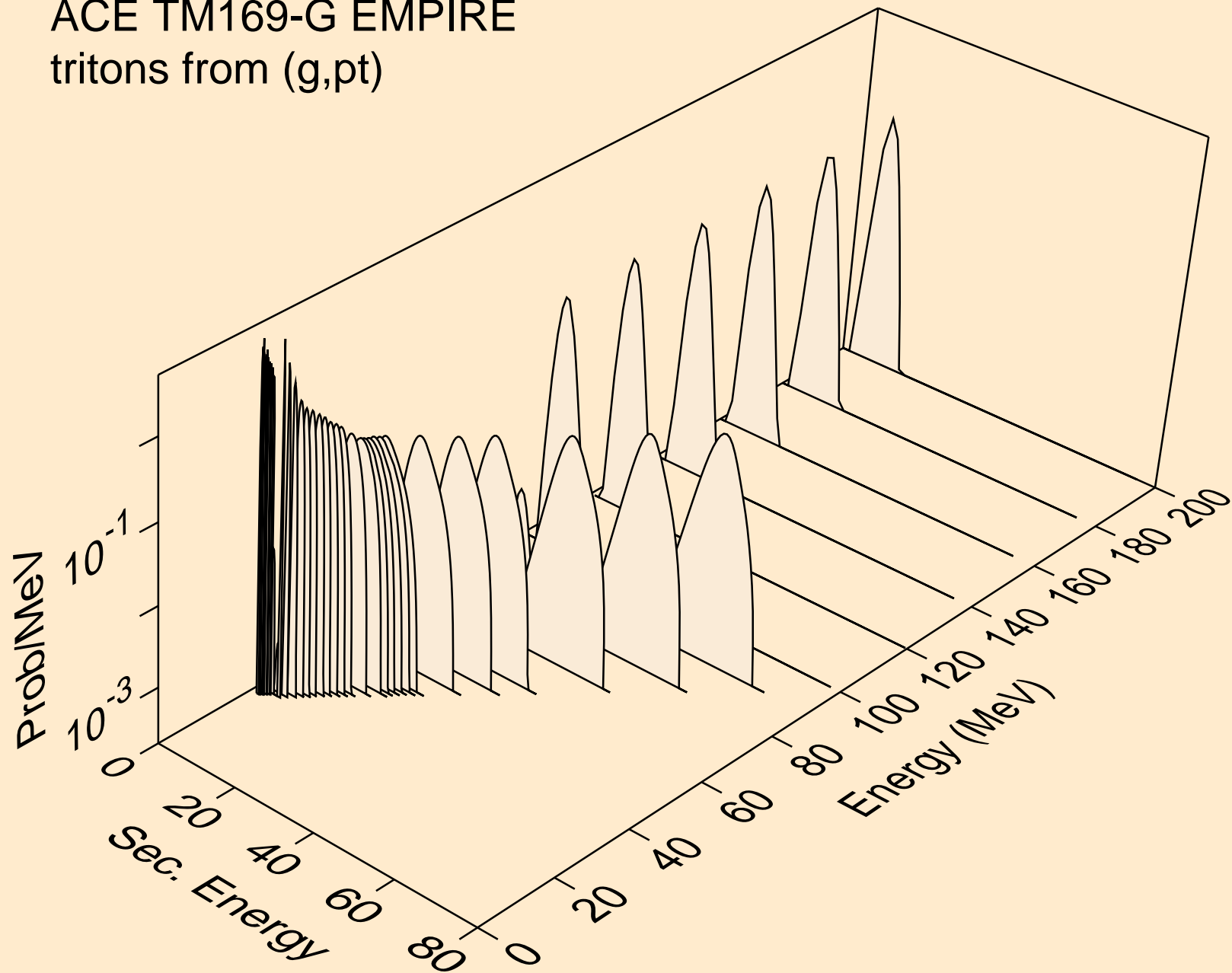
ACE TM169-G EMPIRE

tritons from (g,t)



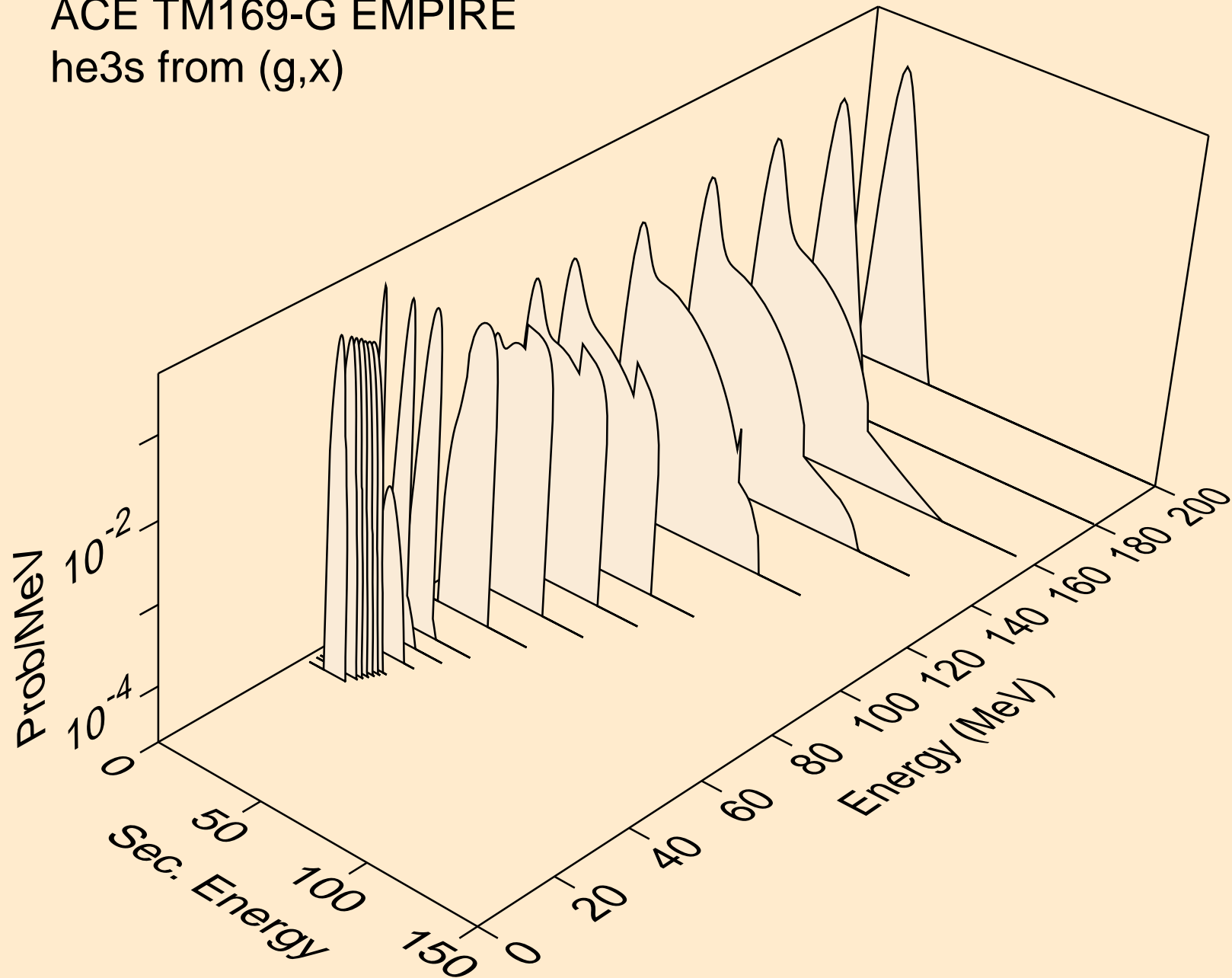
ACE TM169-G EMPIRE

tritons from (g,pt)

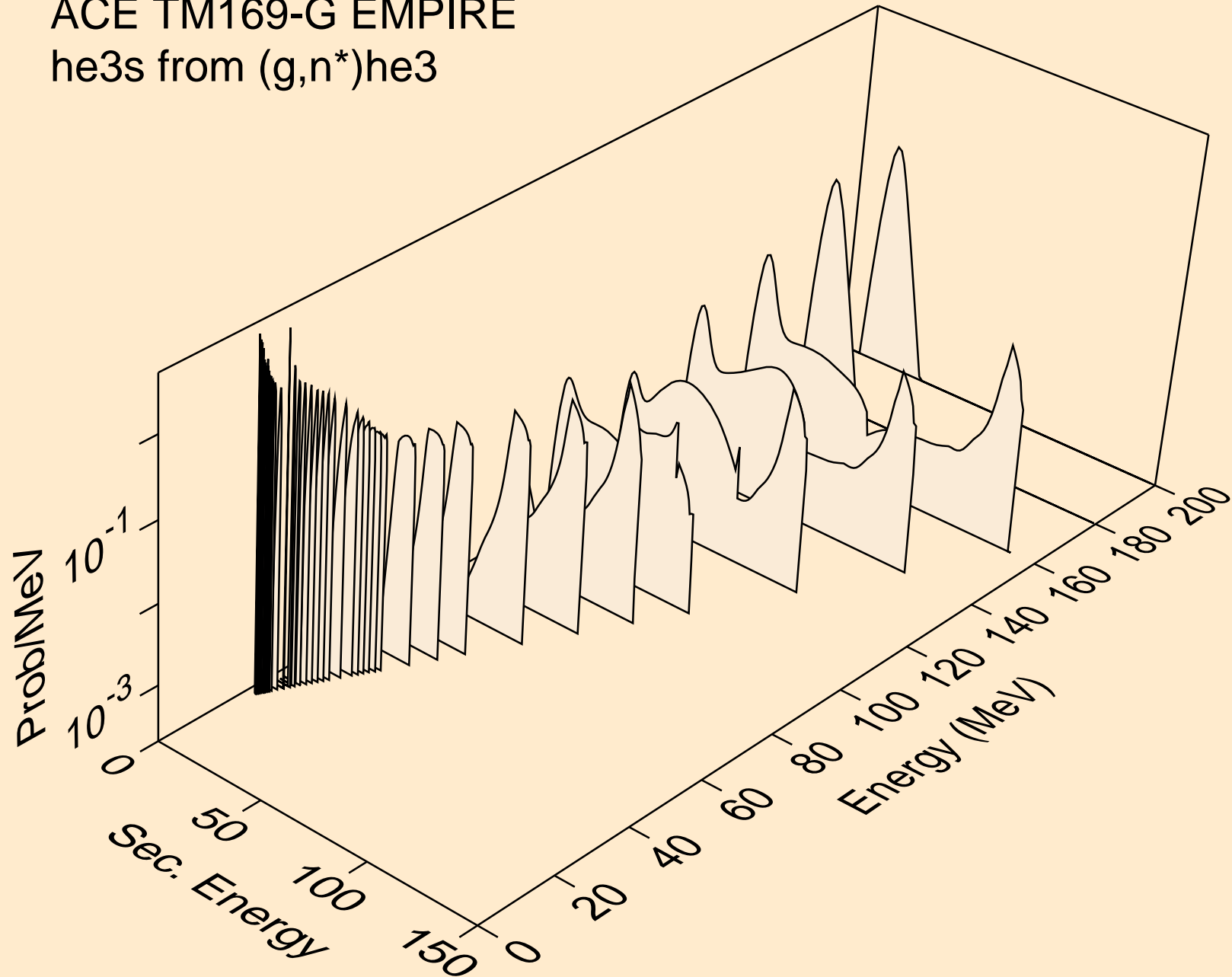


ACE TM169-G EMPIRE

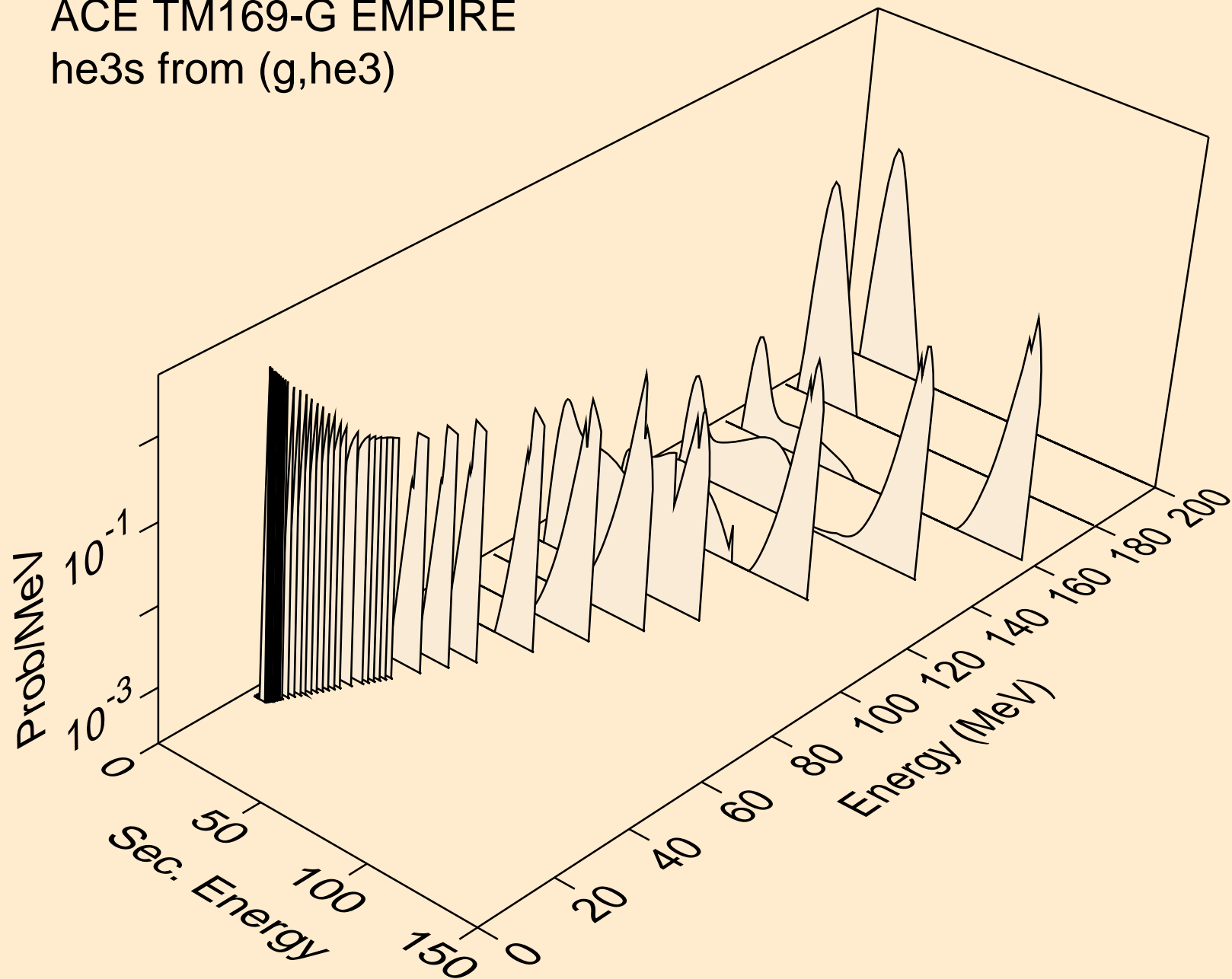
he3s from (g,x)



ACE TM169-G EMPIRE
he3s from (g,n*)he3

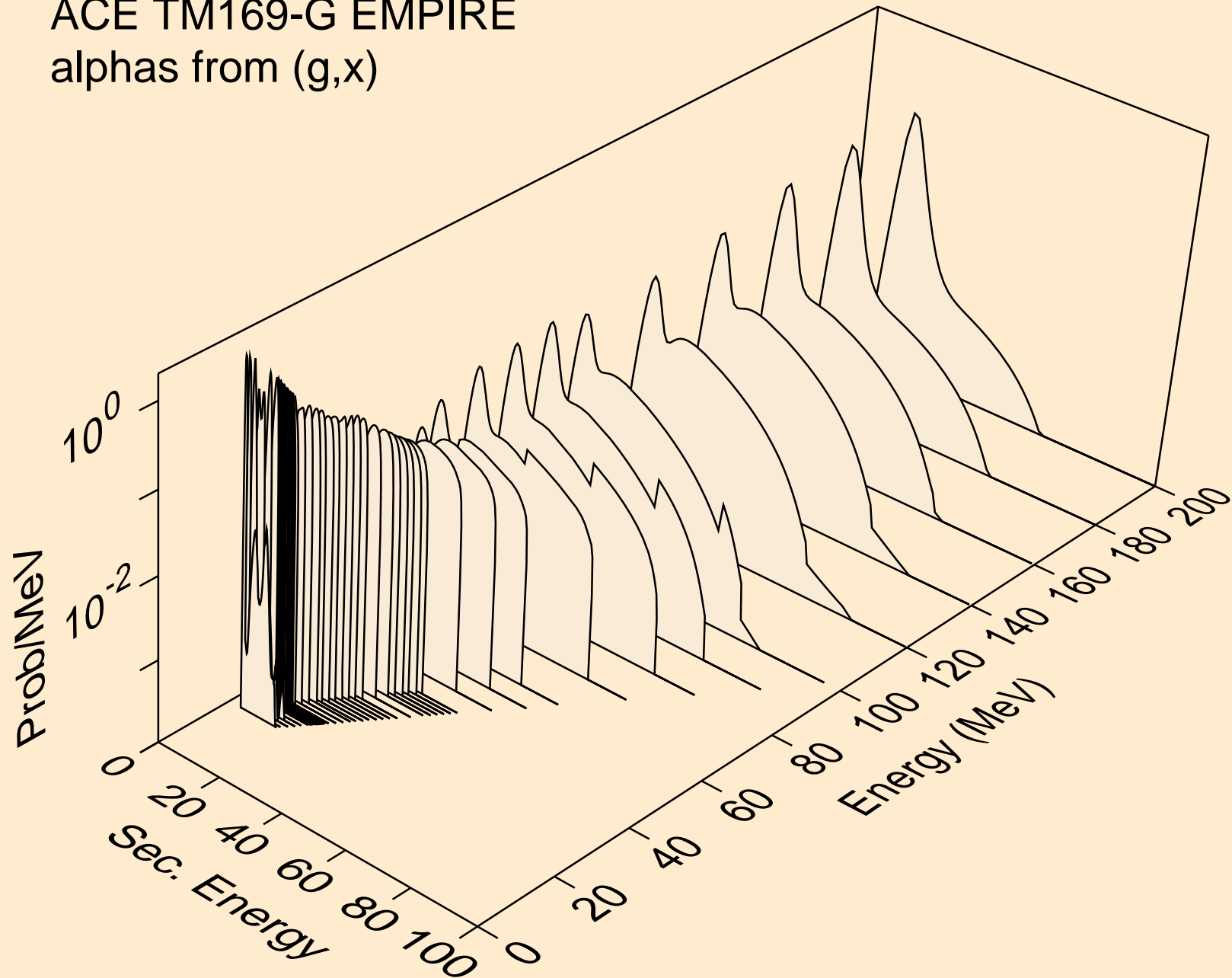


ACE TM169-G EMPIRE
he3s from (g,he3)

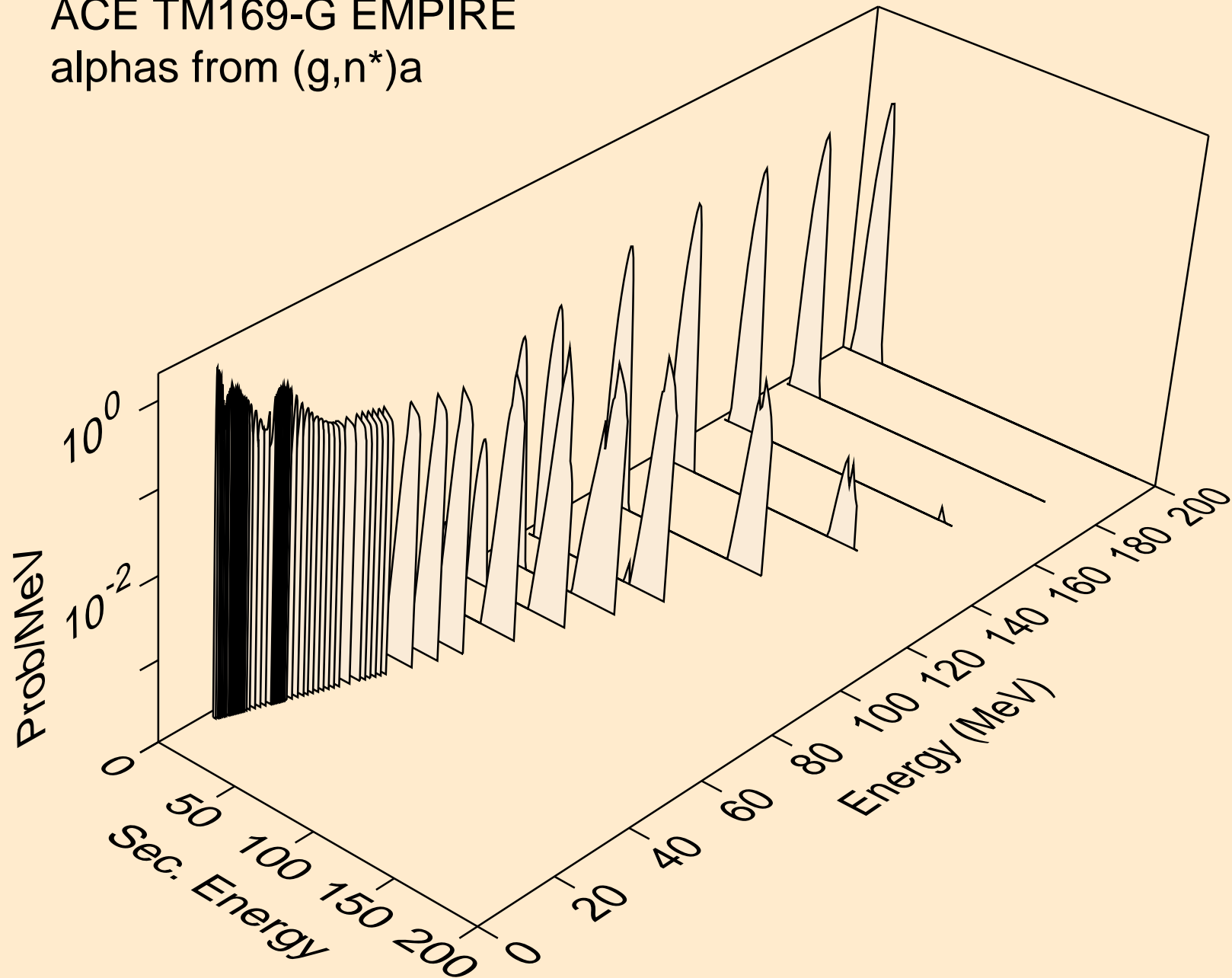


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alphas from (g,x)

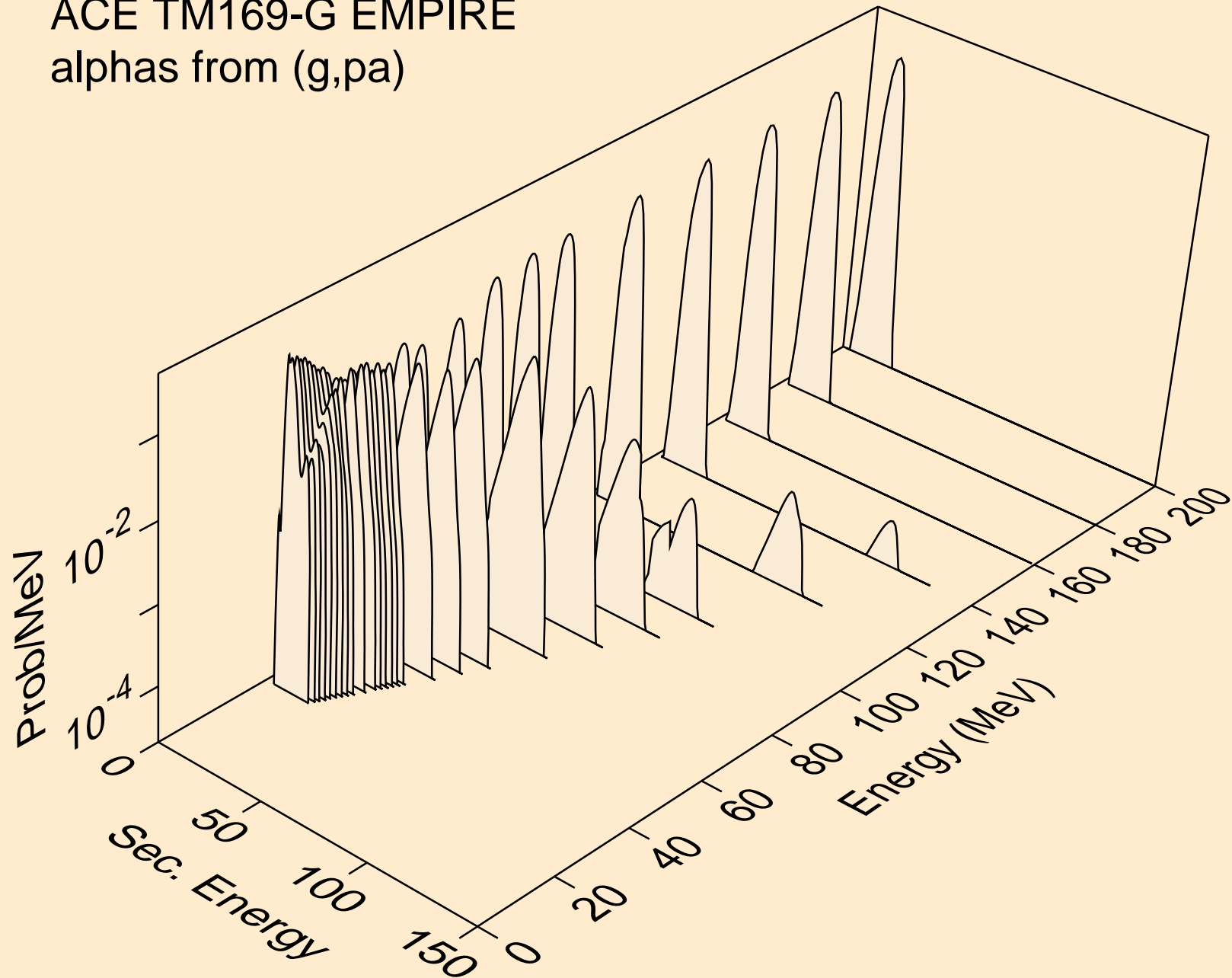


ACE TM169-G EMPIRE
alphas from $(g,n^*)a$

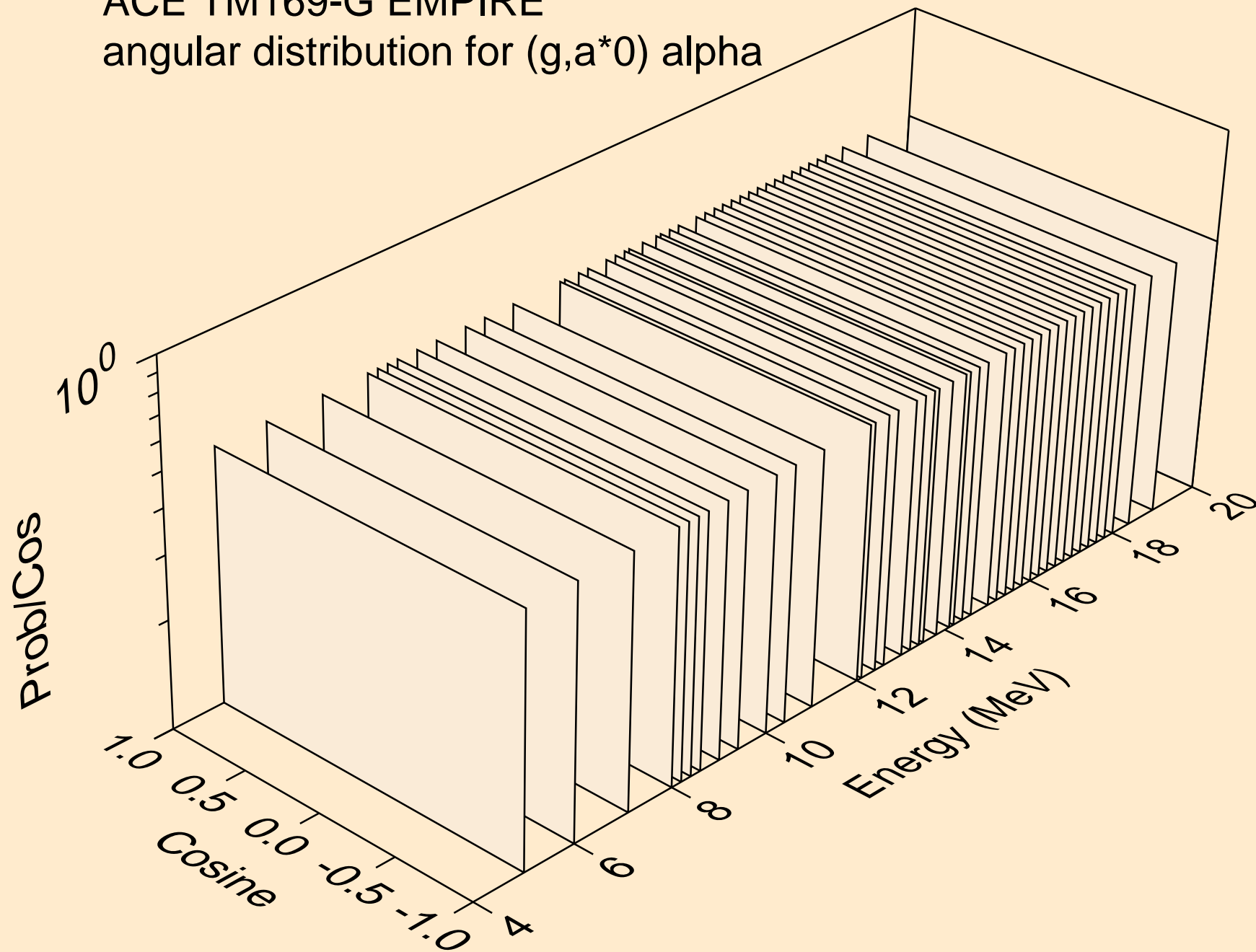


ACE TM169-G EMPIRE

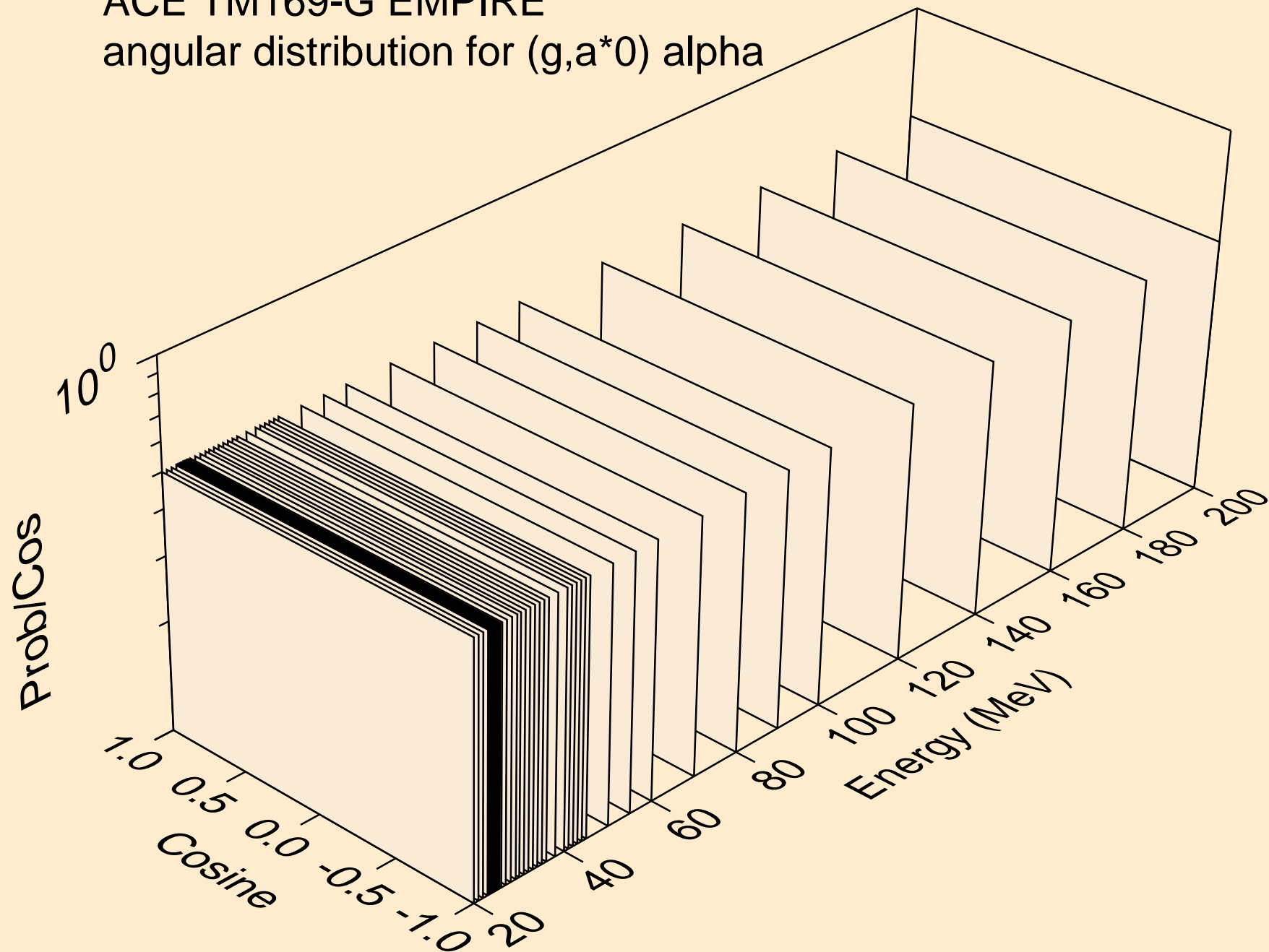
alphas from (g,pa)



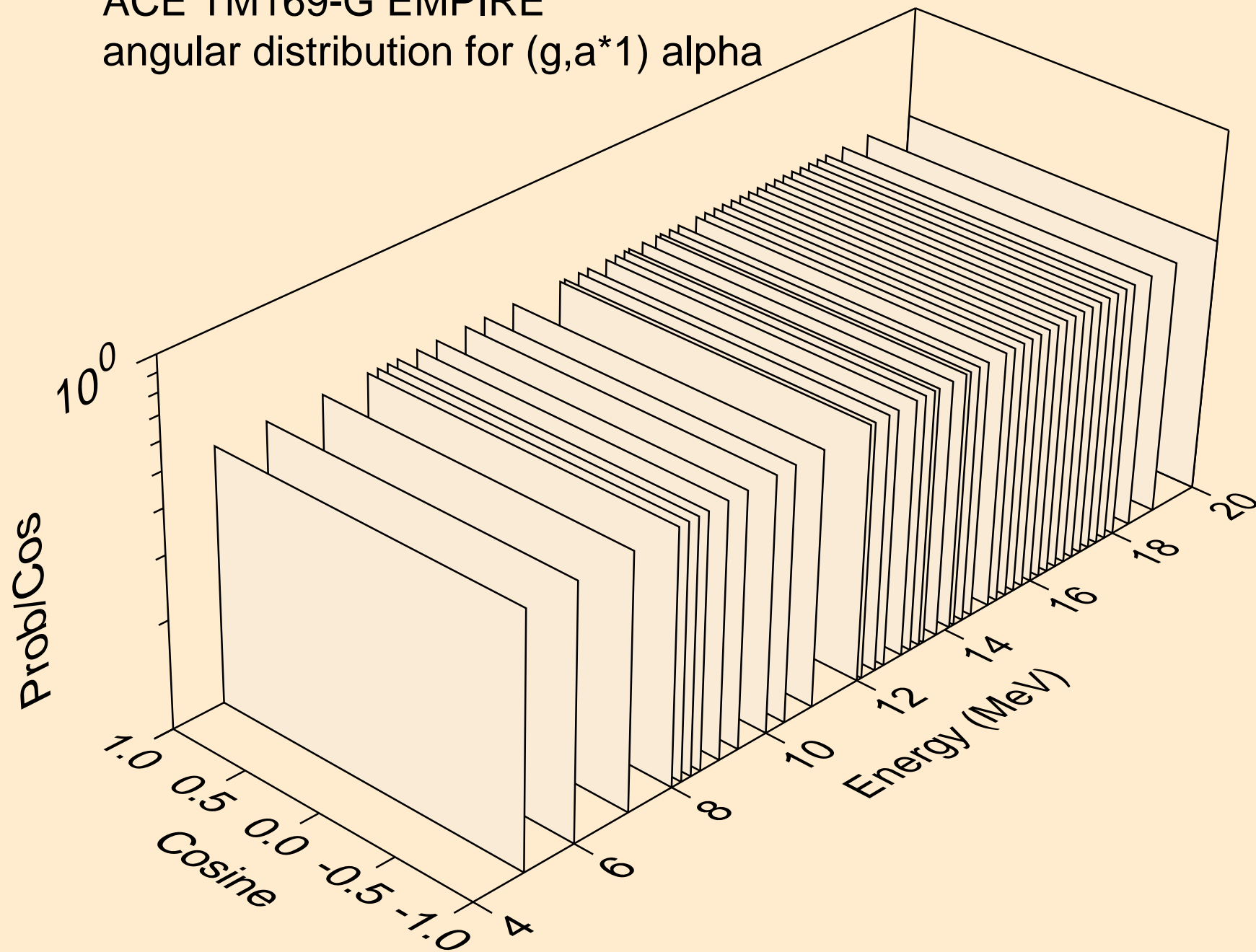
ACE TM169-G EMPIRE
angular distribution for (g,a*0) alpha



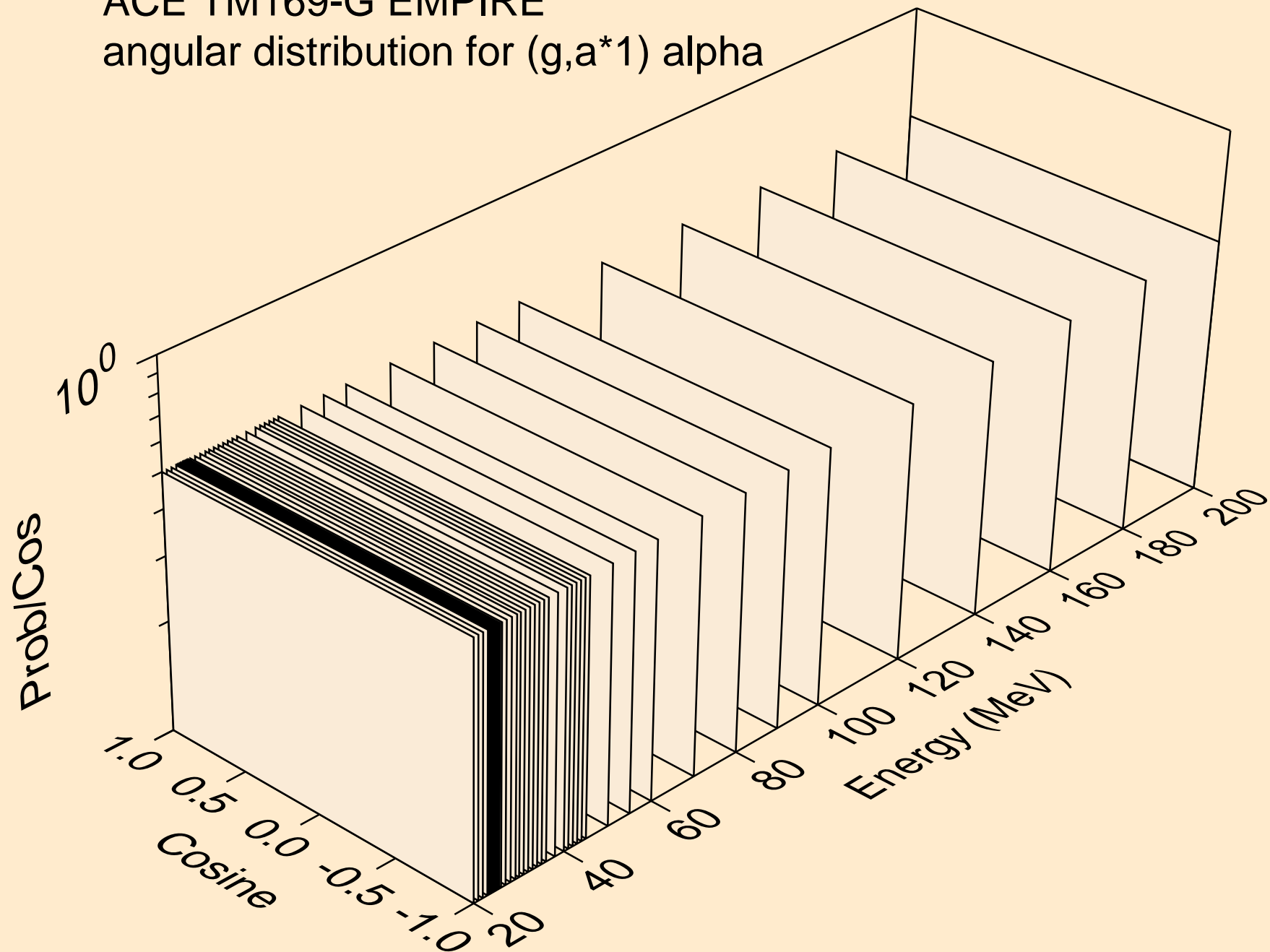
ACE TM169-G EMPIRE
angular distribution for (g,a*0) alpha



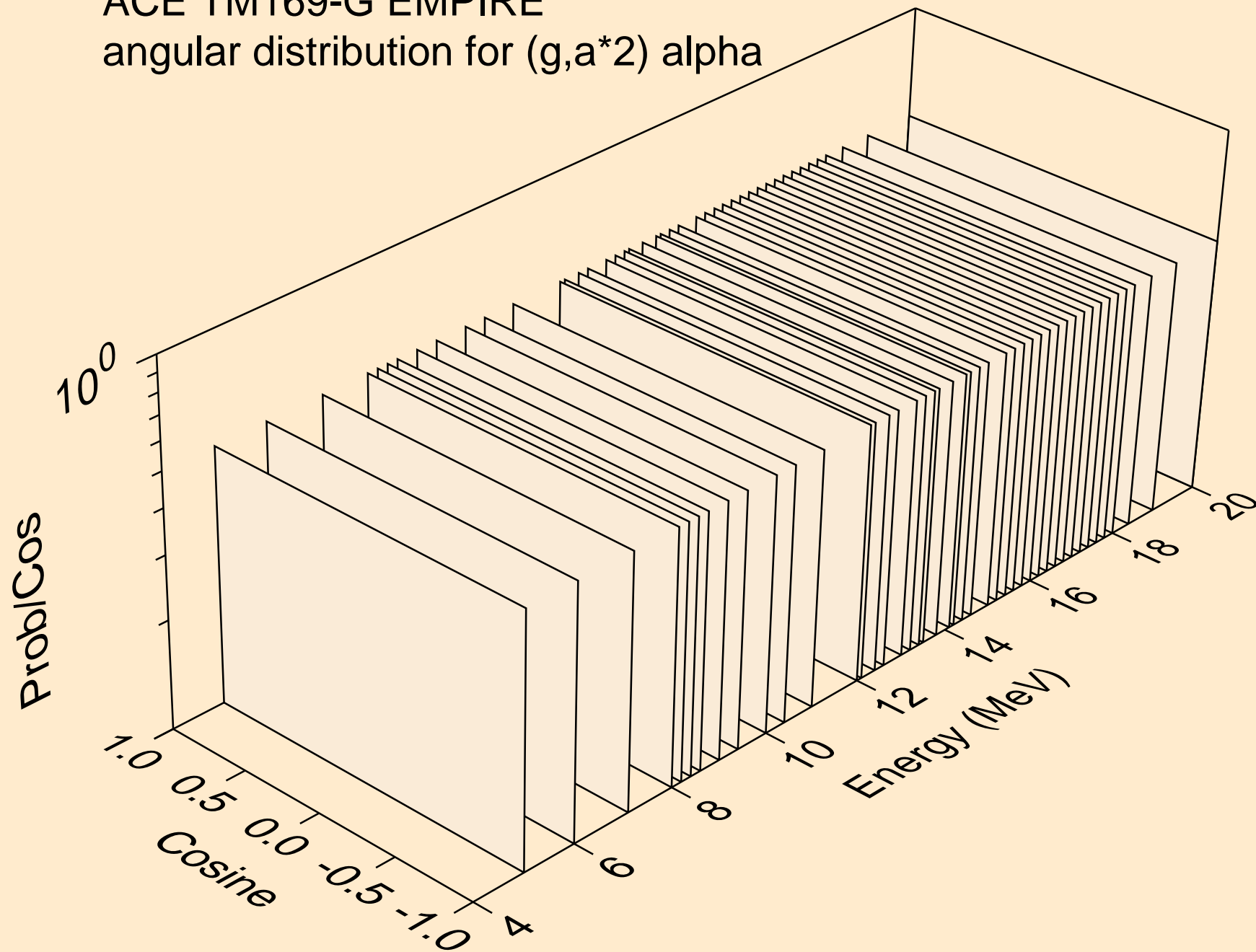
ACE TM169-G EMPIRE
angular distribution for (g,a*1) alpha



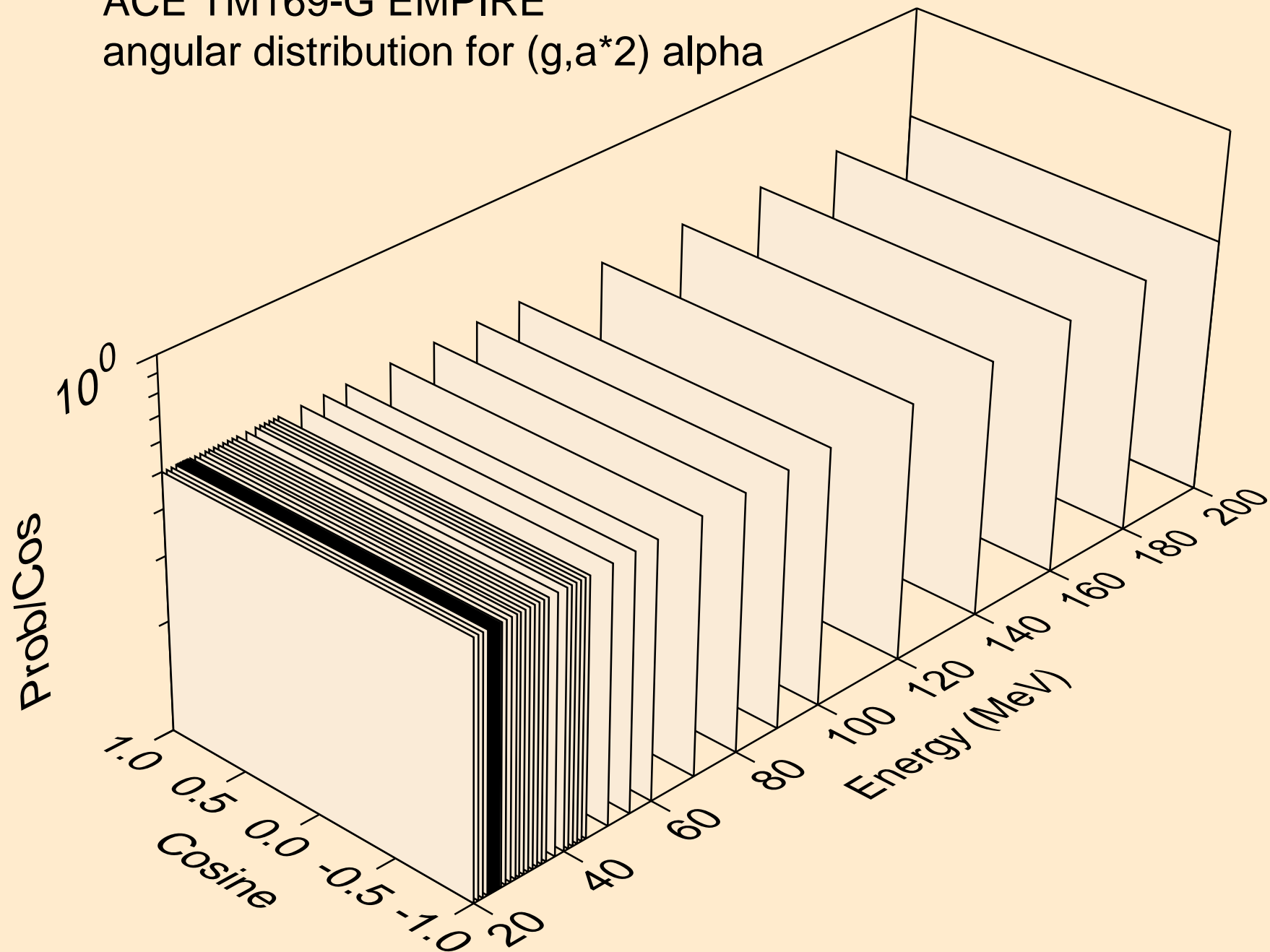
ACE TM169-G EMPIRE
angular distribution for (g,a*1) alpha



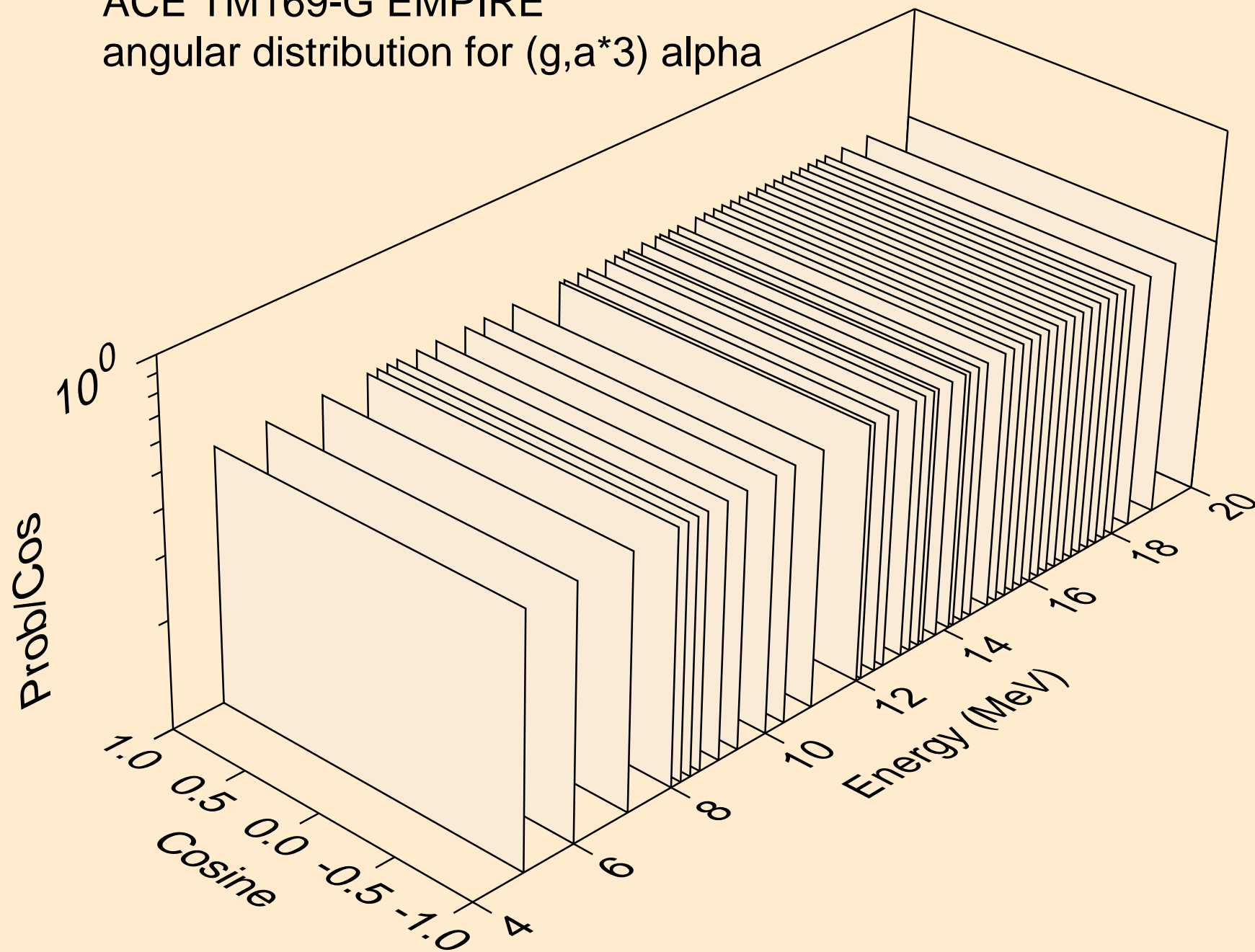
ACE TM169-G EMPIRE
angular distribution for (g,a*2) alpha



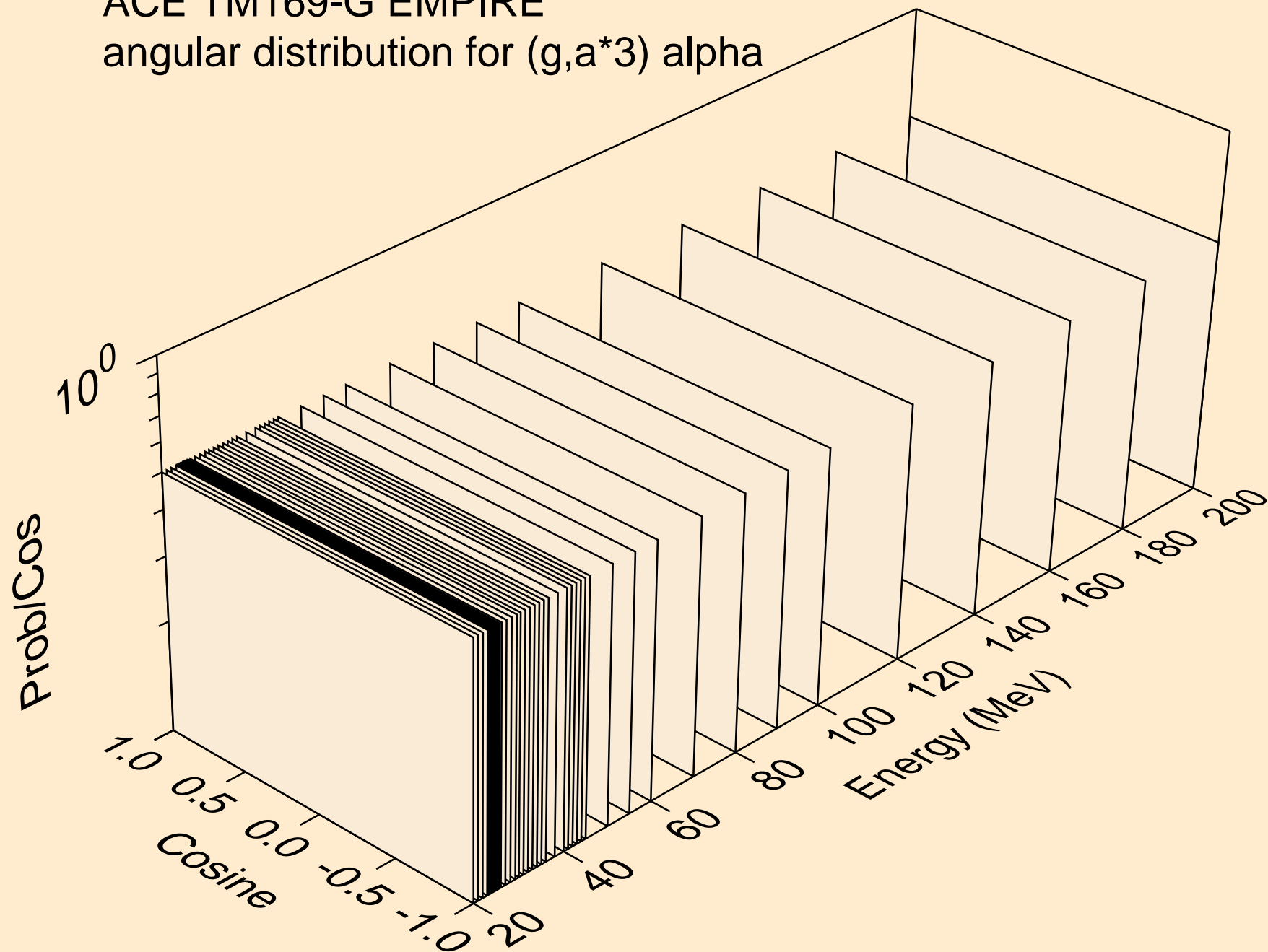
ACE TM169-G EMPIRE
angular distribution for (g,a*2) alpha



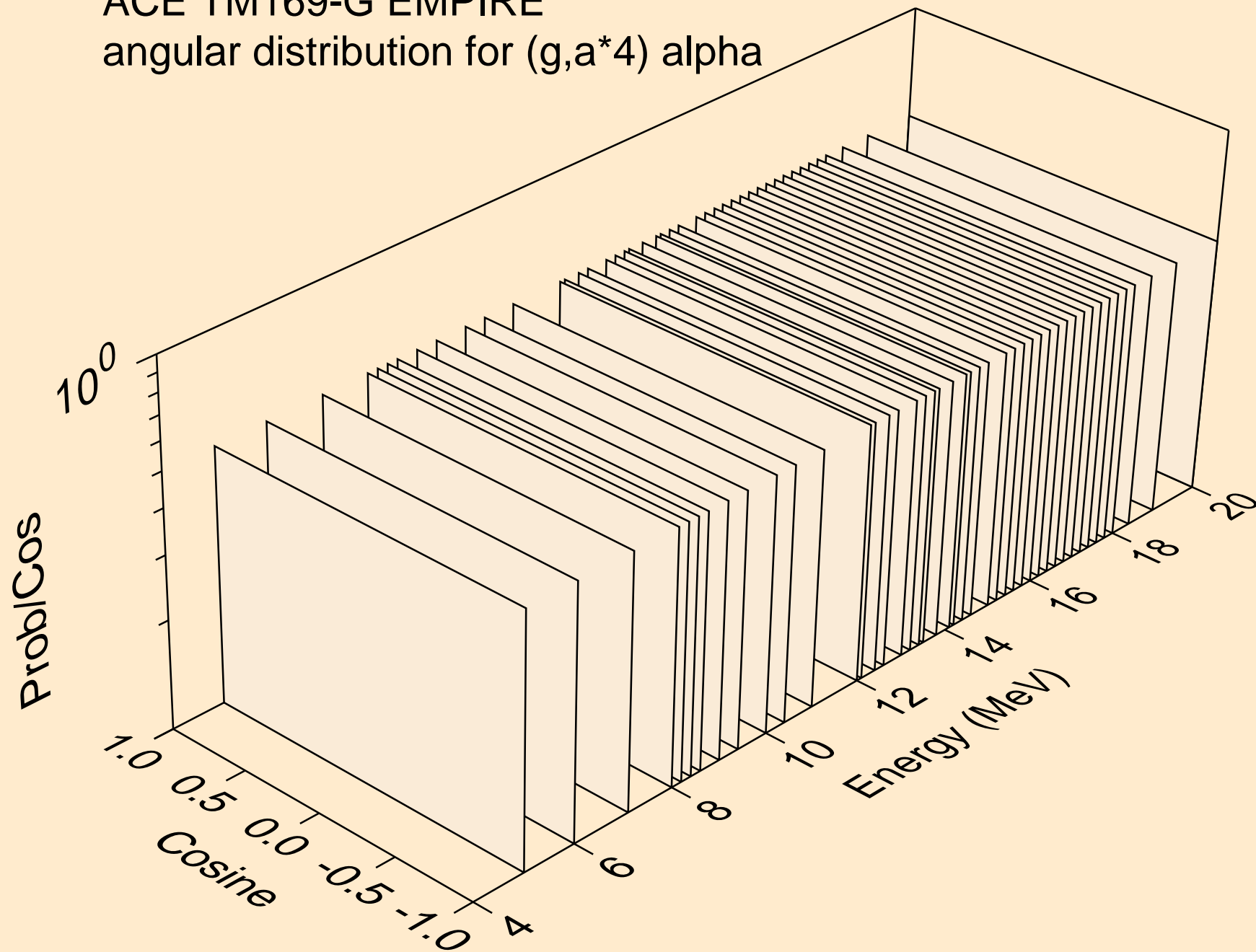
ACE TM169-G EMPIRE
angular distribution for (g,a*3) alpha



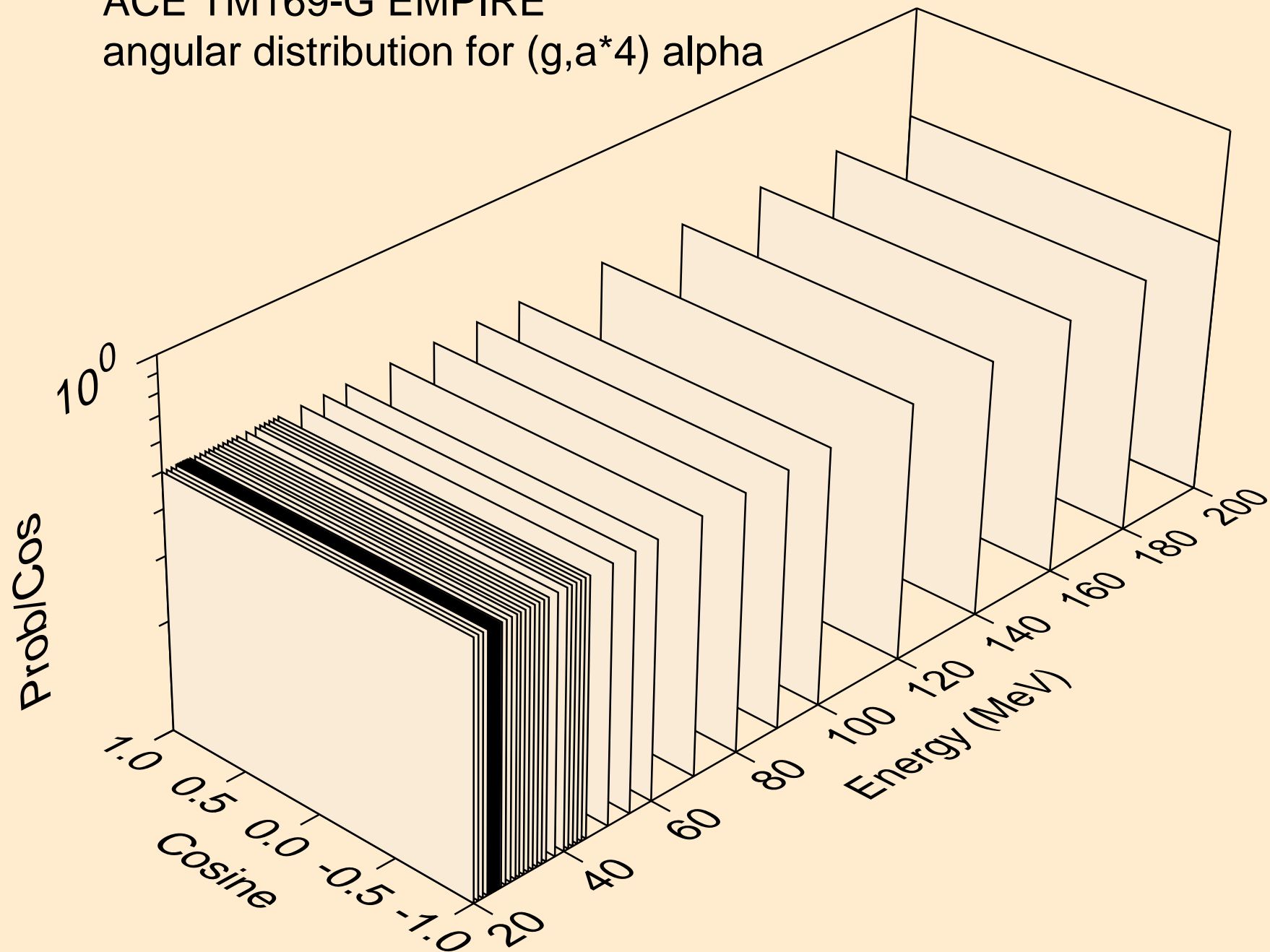
ACE TM169-G EMPIRE
angular distribution for (g,a*3) alpha



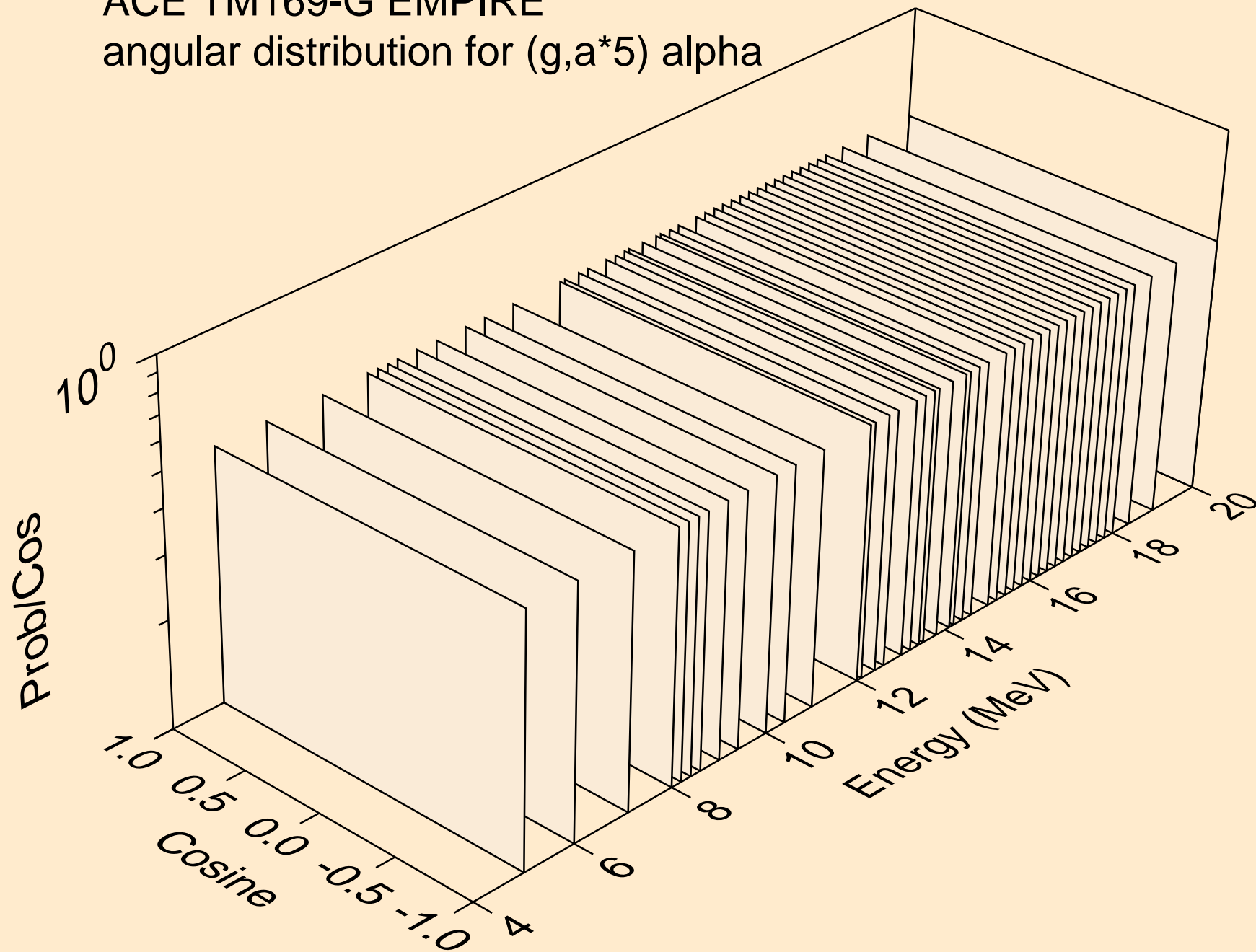
ACE TM169-G EMPIRE
angular distribution for (g,a*4) alpha



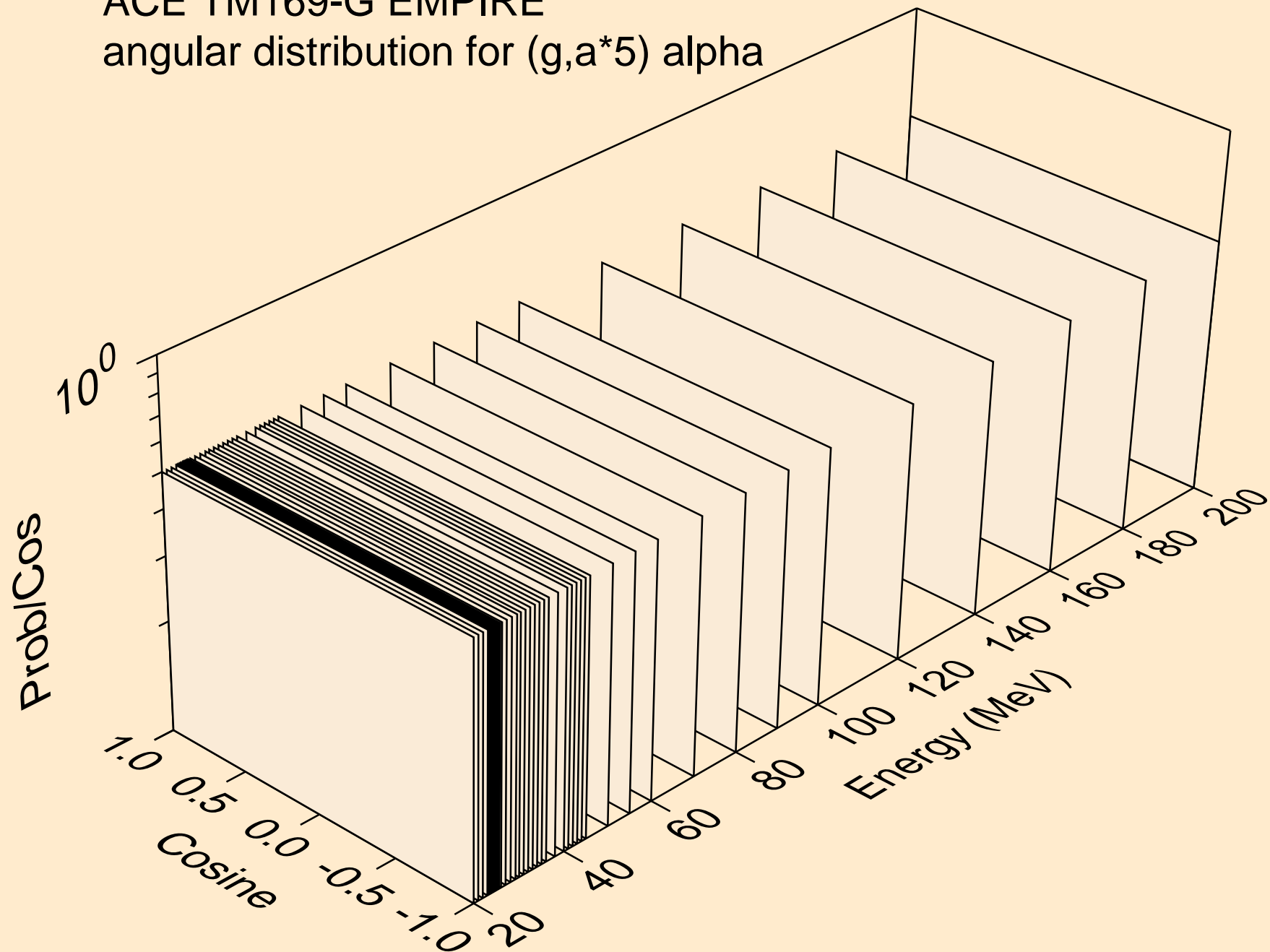
ACE TM169-G EMPIRE
angular distribution for (g,a*4) alpha



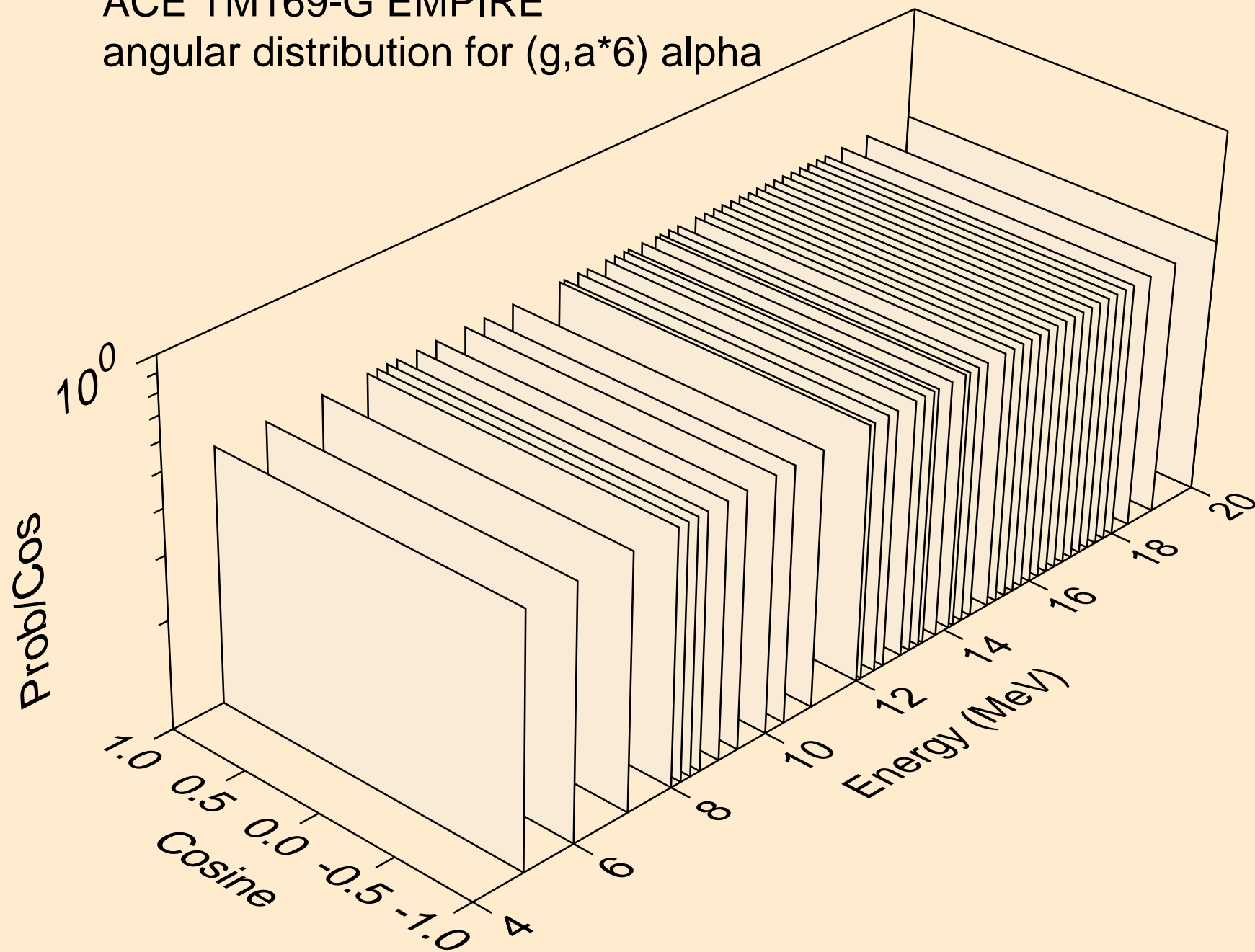
ACE TM169-G EMPIRE
angular distribution for (g,a*5) alpha



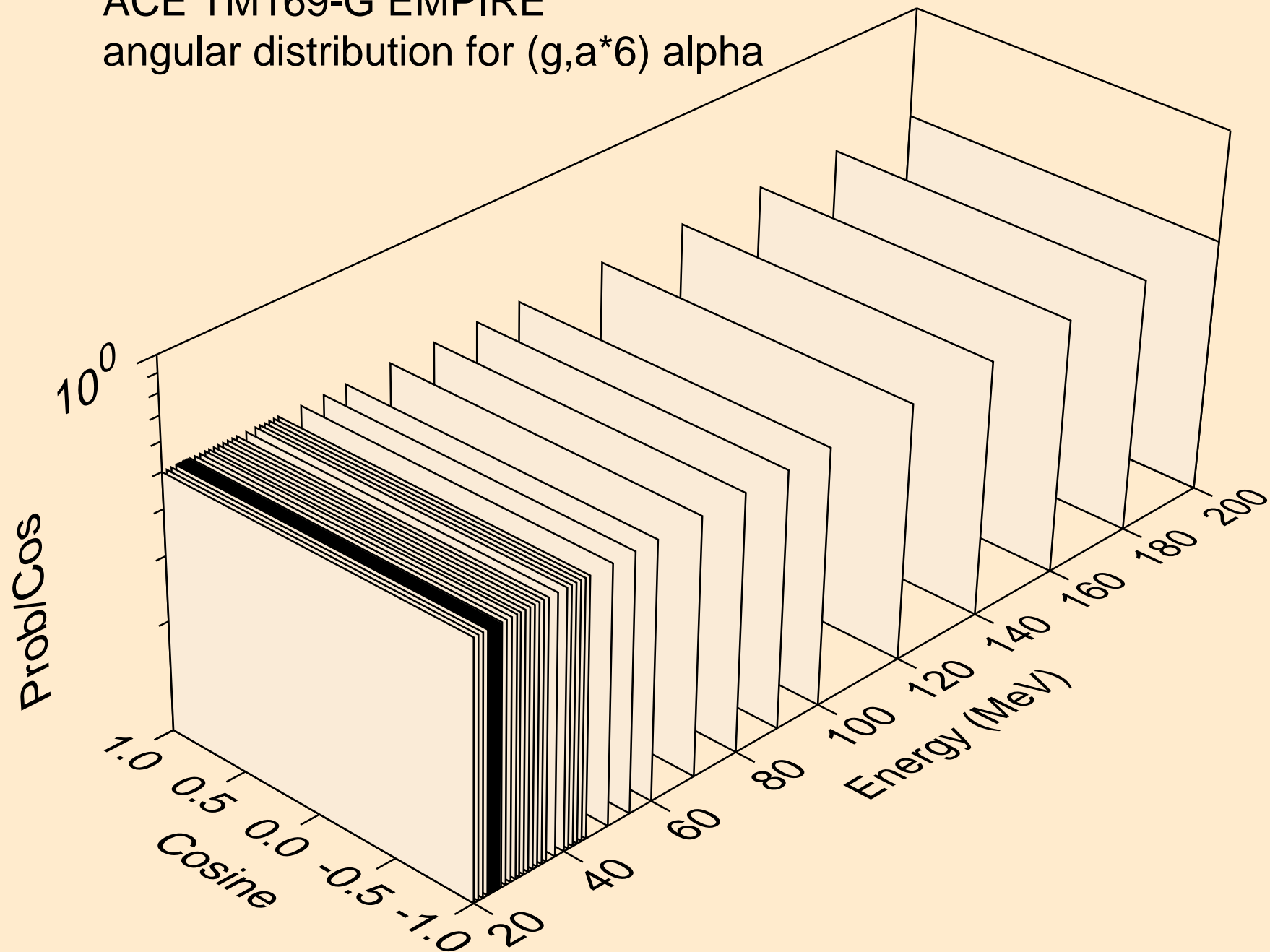
ACE TM169-G EMPIRE
angular distribution for (g,a*5) alpha



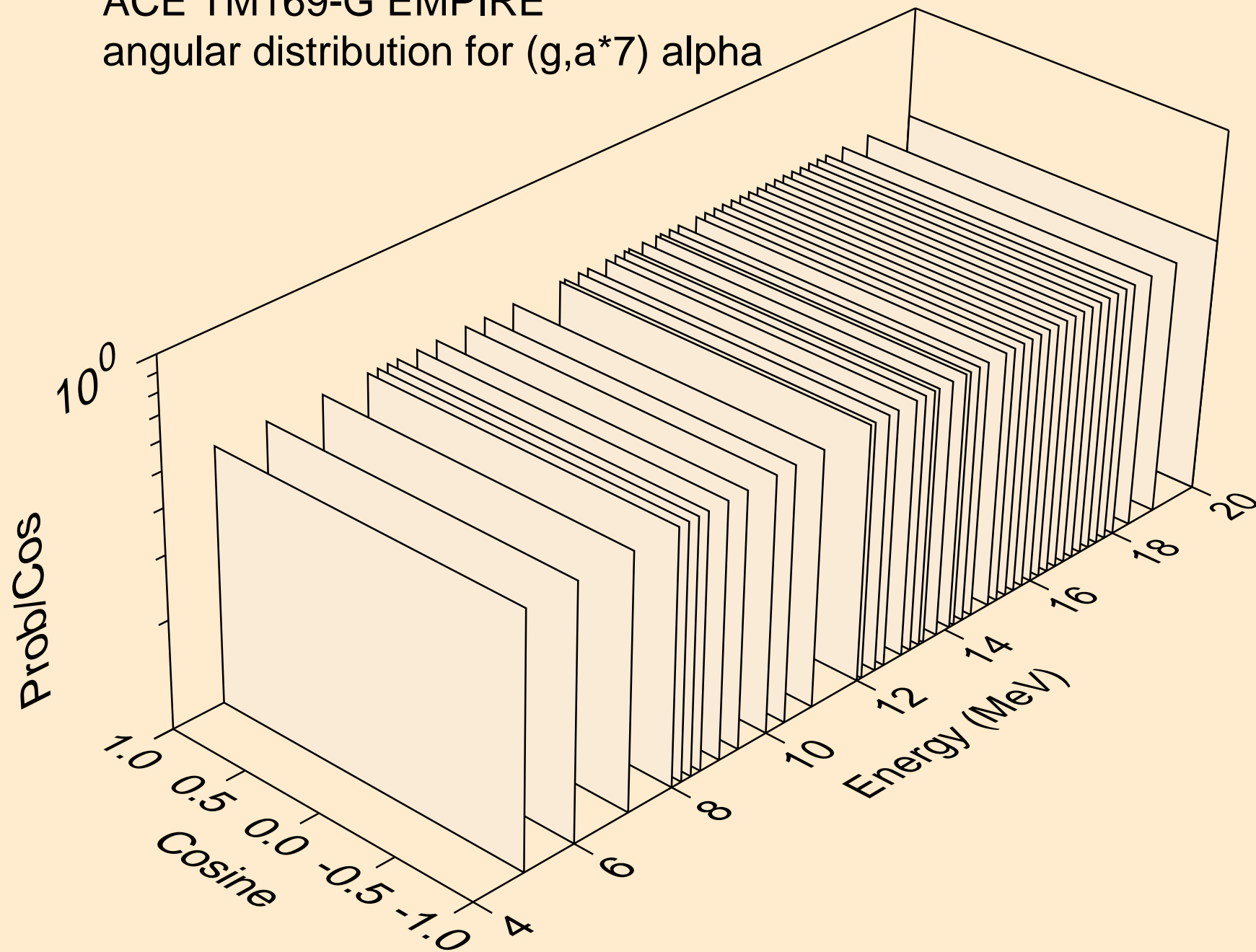
ACE TM169-G EMPIRE
angular distribution for (g,a*6) alpha



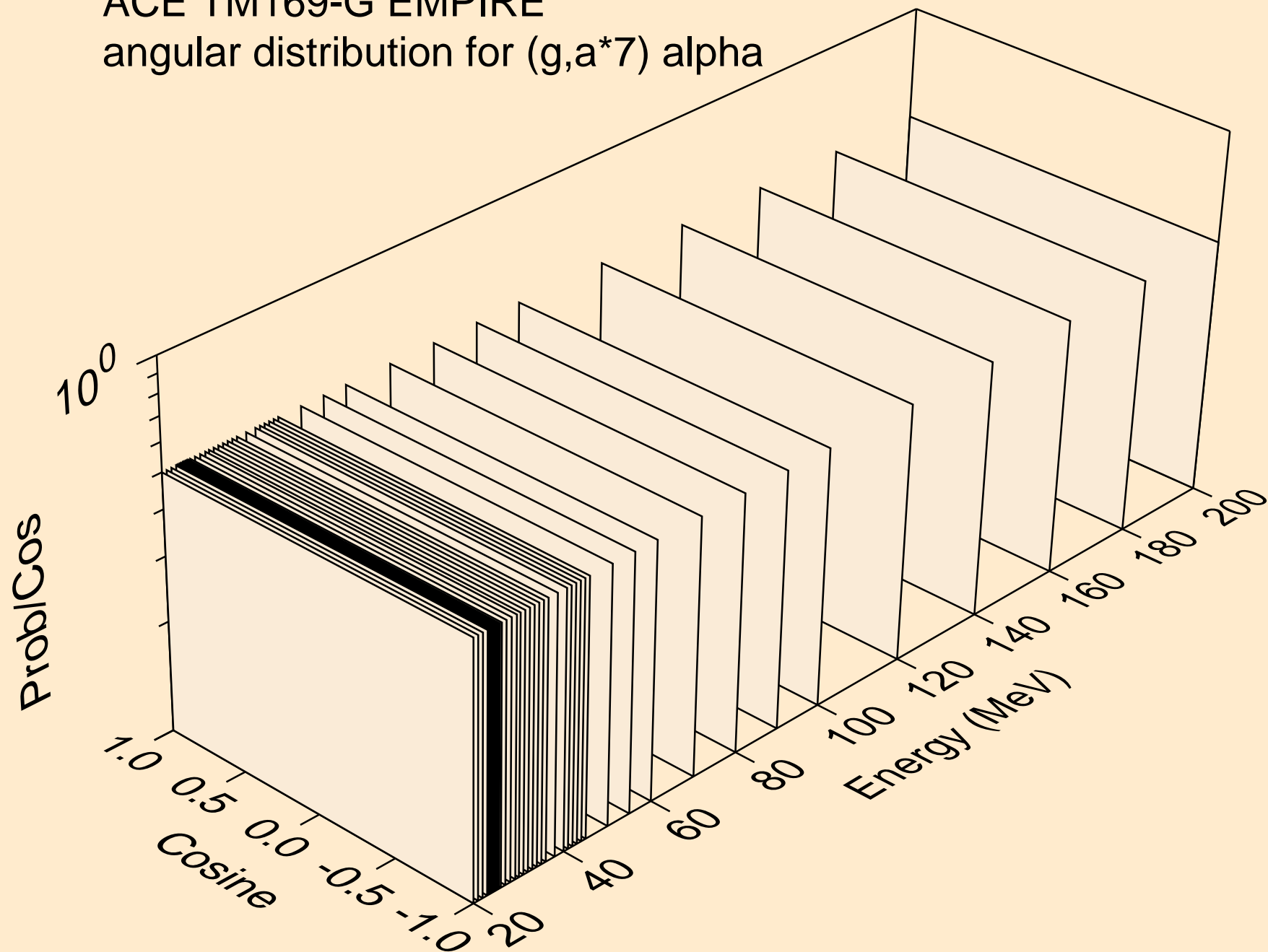
ACE TM169-G EMPIRE
angular distribution for (g,a*6) alpha



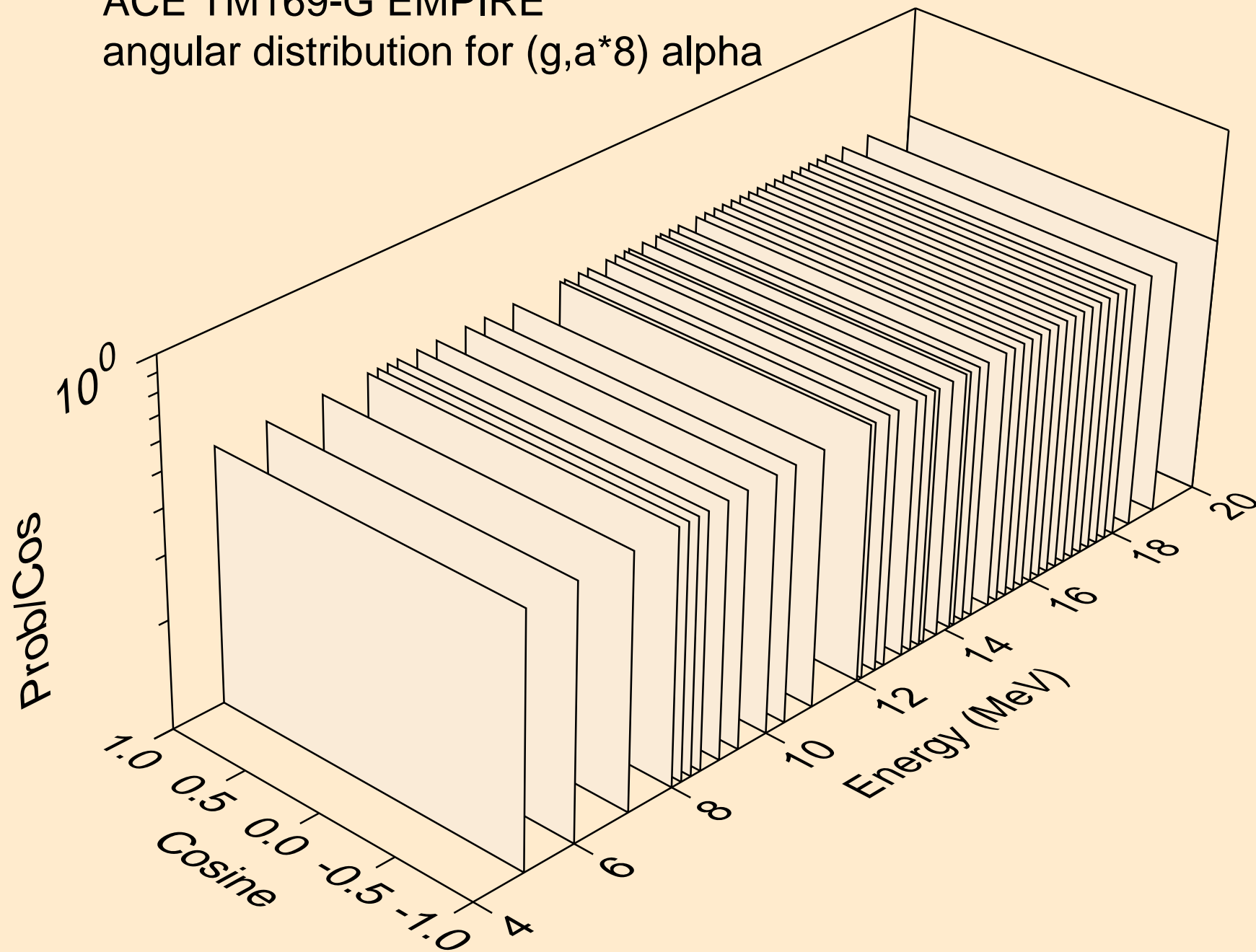
ACE TM169-G EMPIRE
angular distribution for (g,a*7) alpha



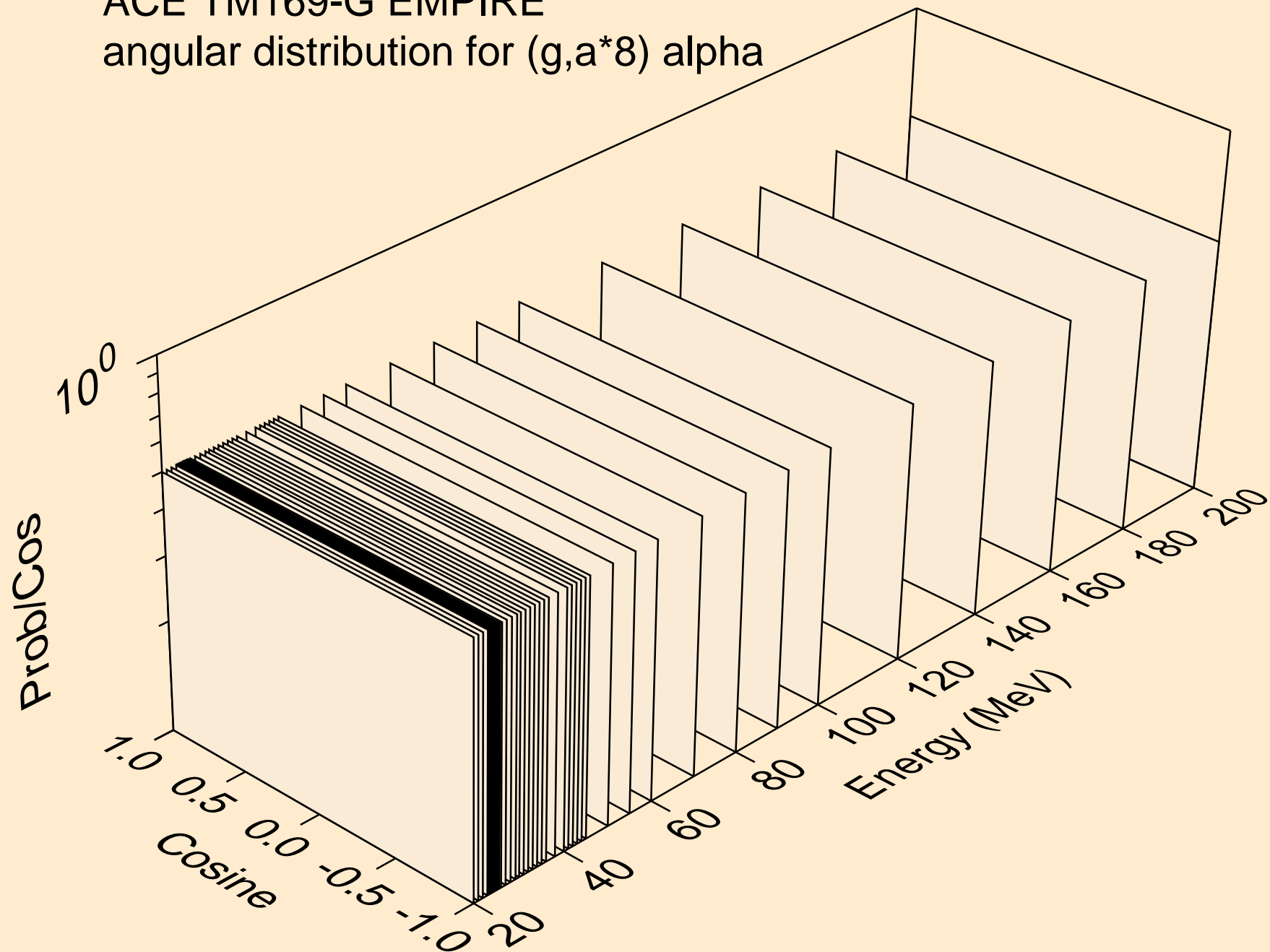
ACE TM169-G EMPIRE
angular distribution for (g,a*7) alpha



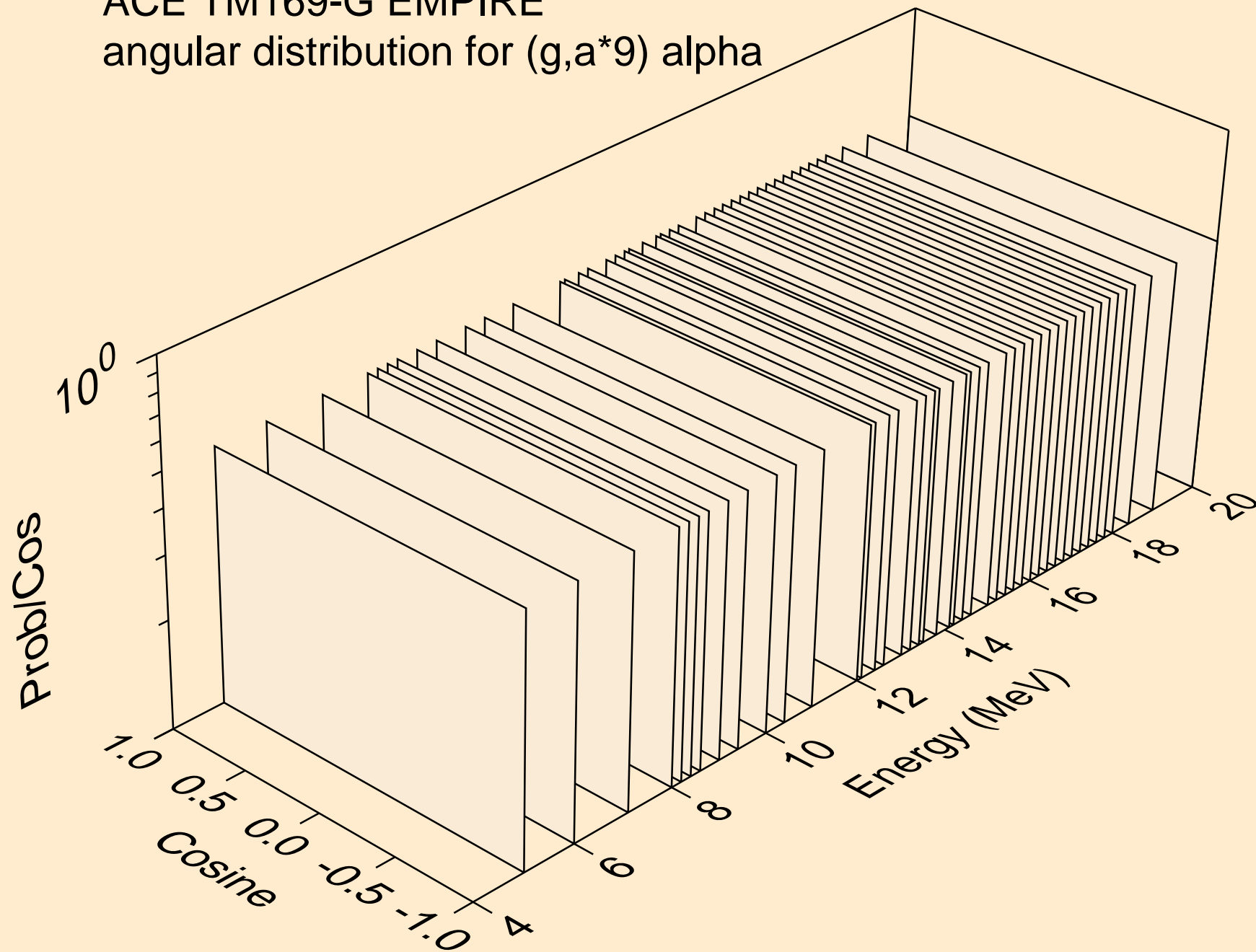
ACE TM169-G EMPIRE
angular distribution for (g,a*8) alpha



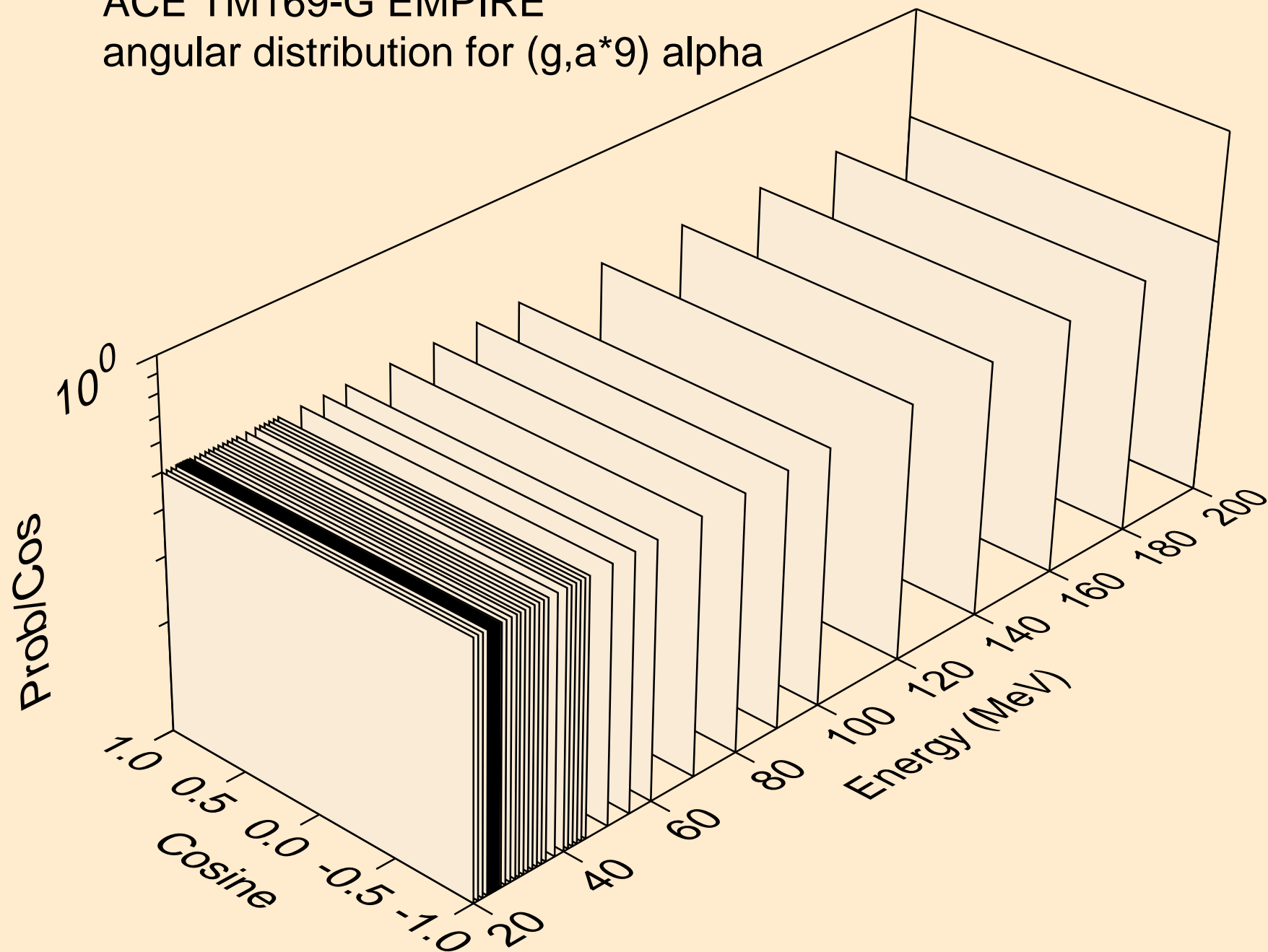
ACE TM169-G EMPIRE
angular distribution for (g,a*8) alpha



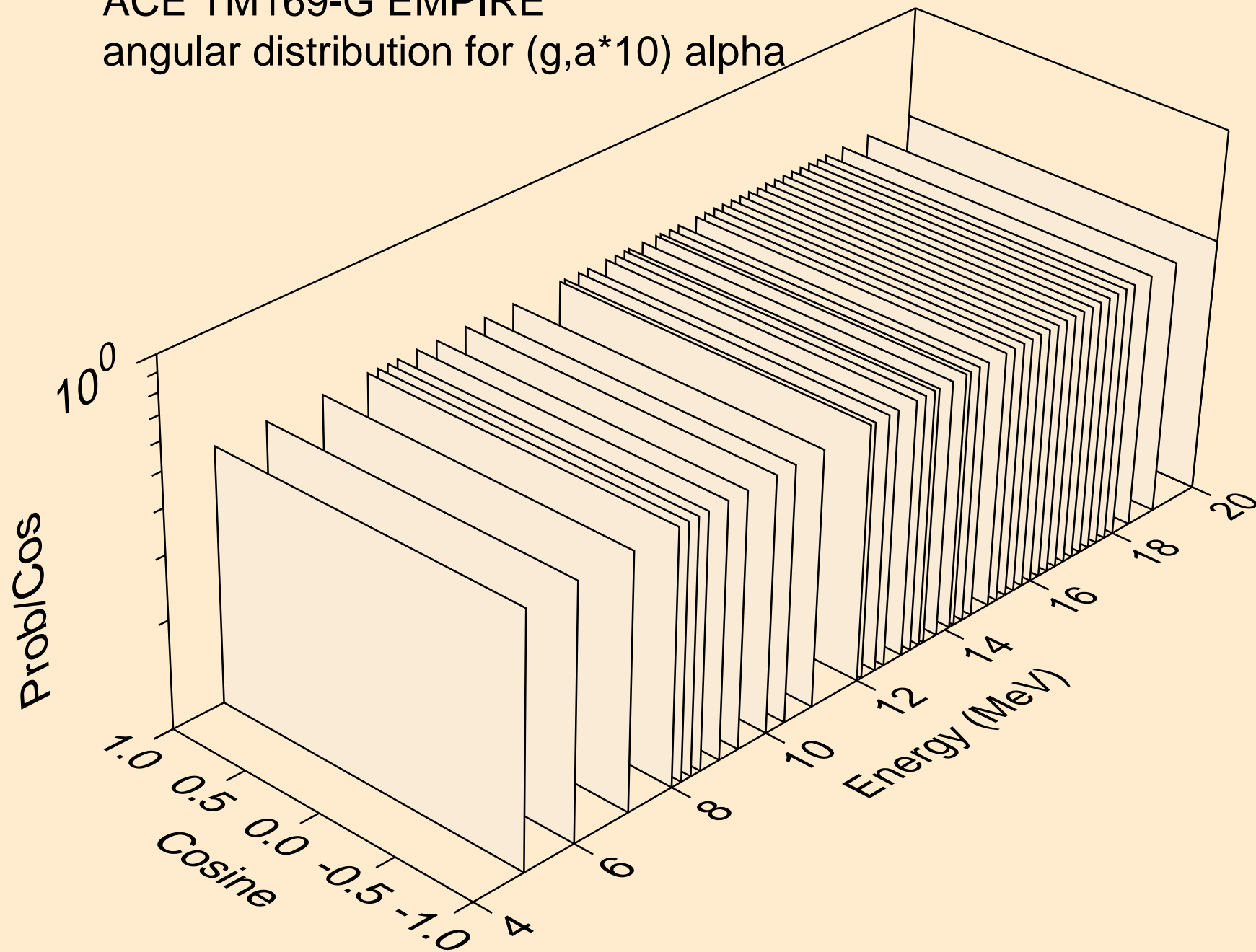
ACE TM169-G EMPIRE
angular distribution for (g,a*9) alpha



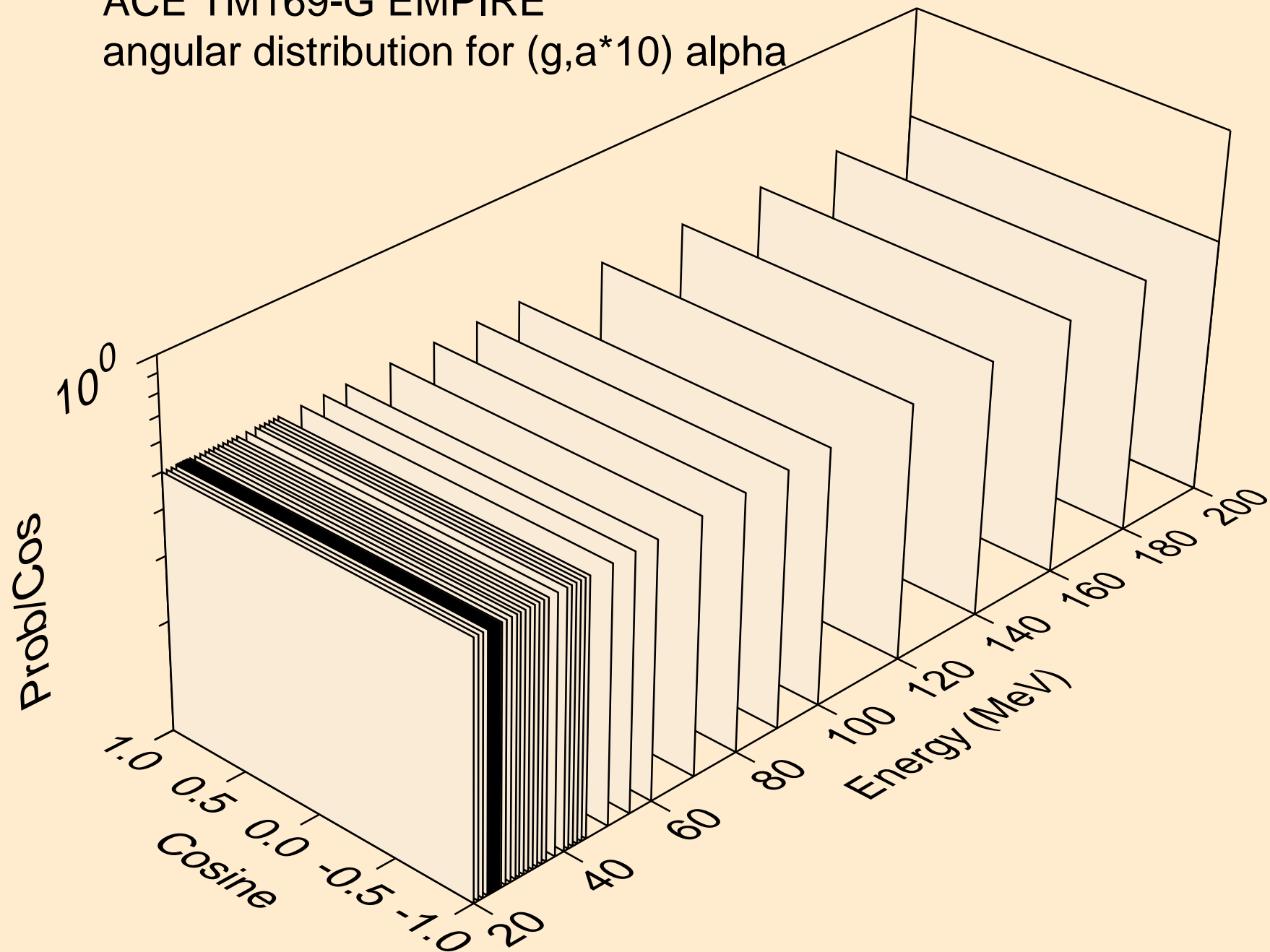
ACE TM169-G EMPIRE
angular distribution for (g,a*9) alpha



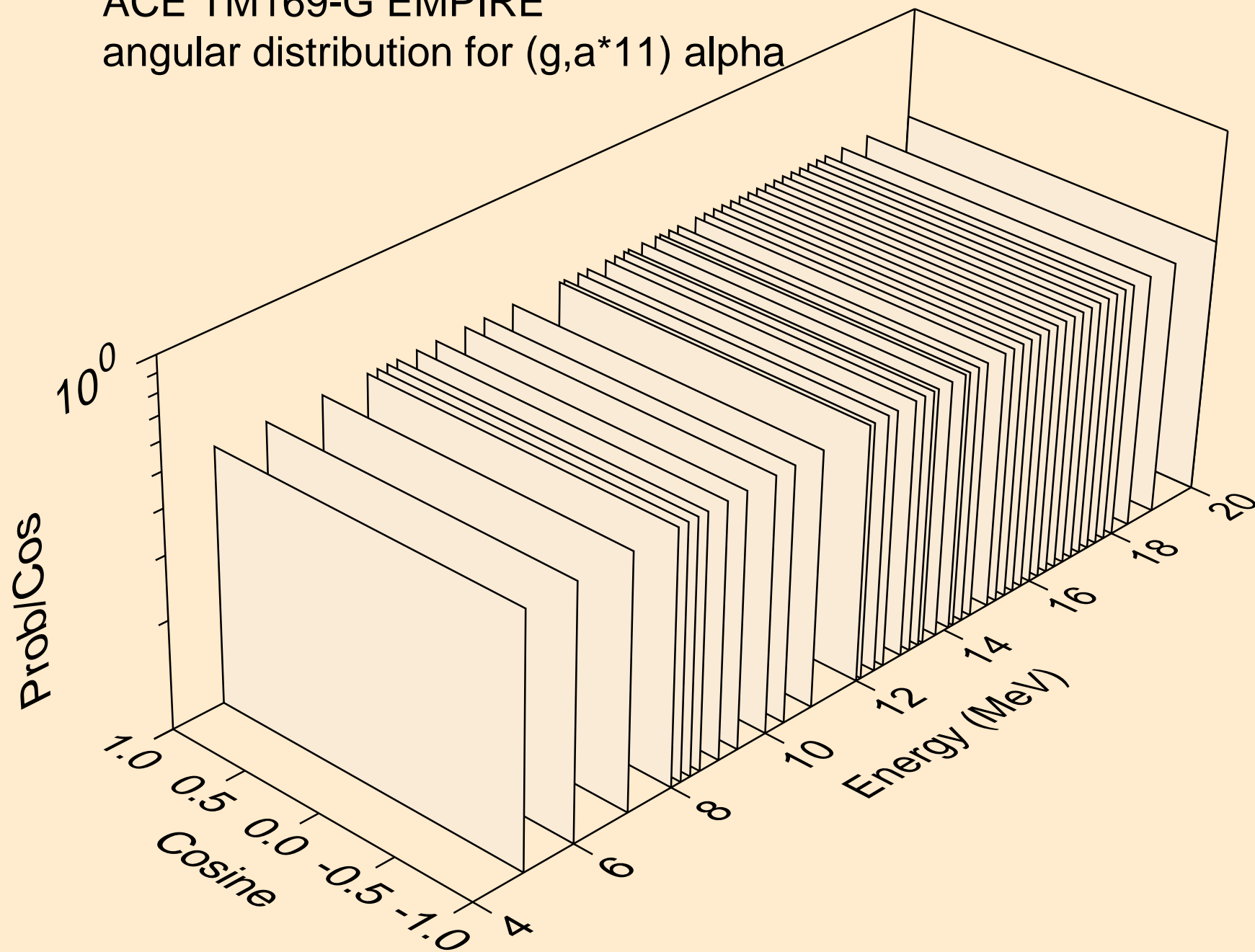
ACE TM169-G EMPIRE
angular distribution for (g,a*10) alpha



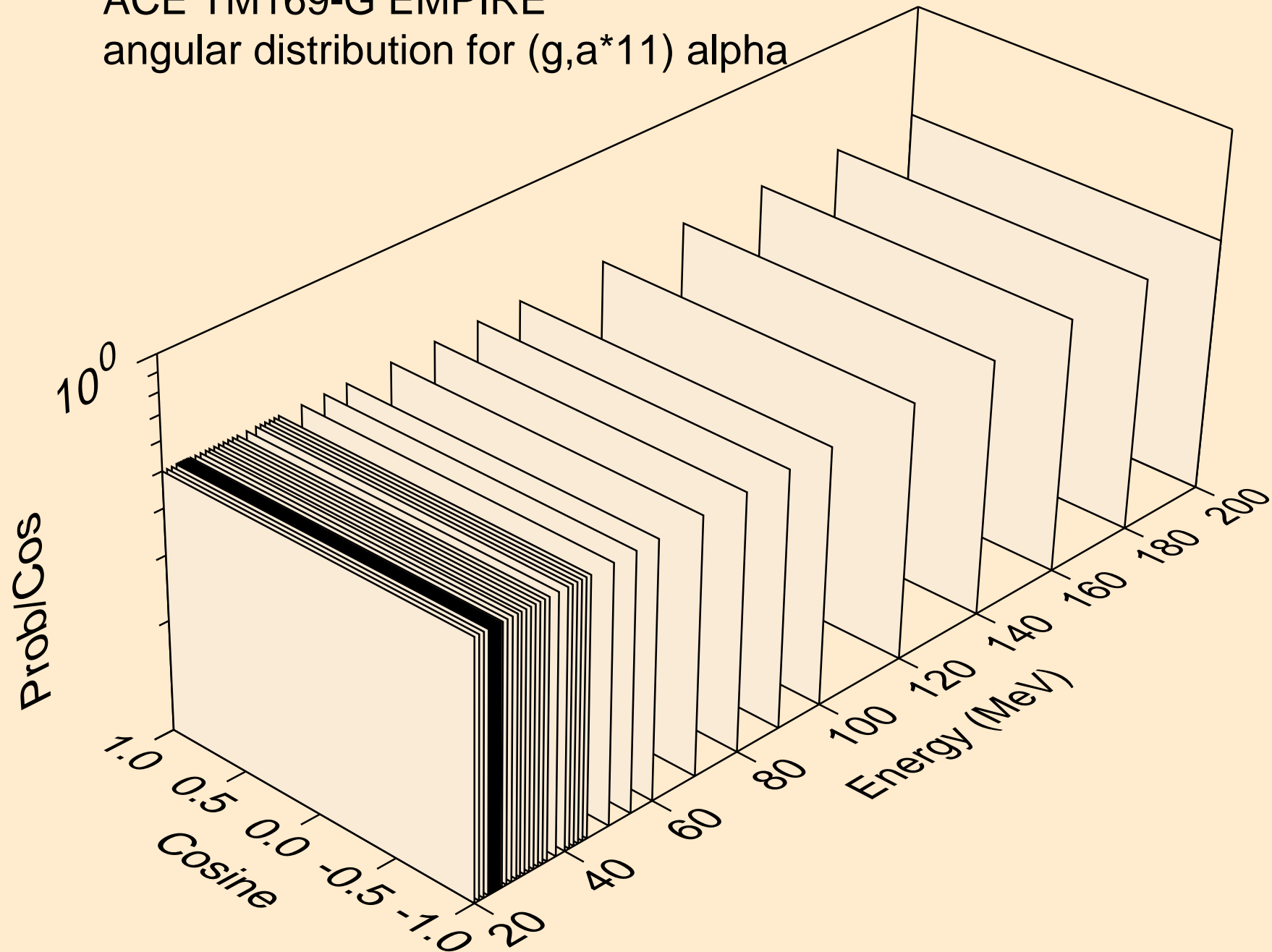
ACE TM169-G EMPIRE
angular distribution for (g,a*10) alpha



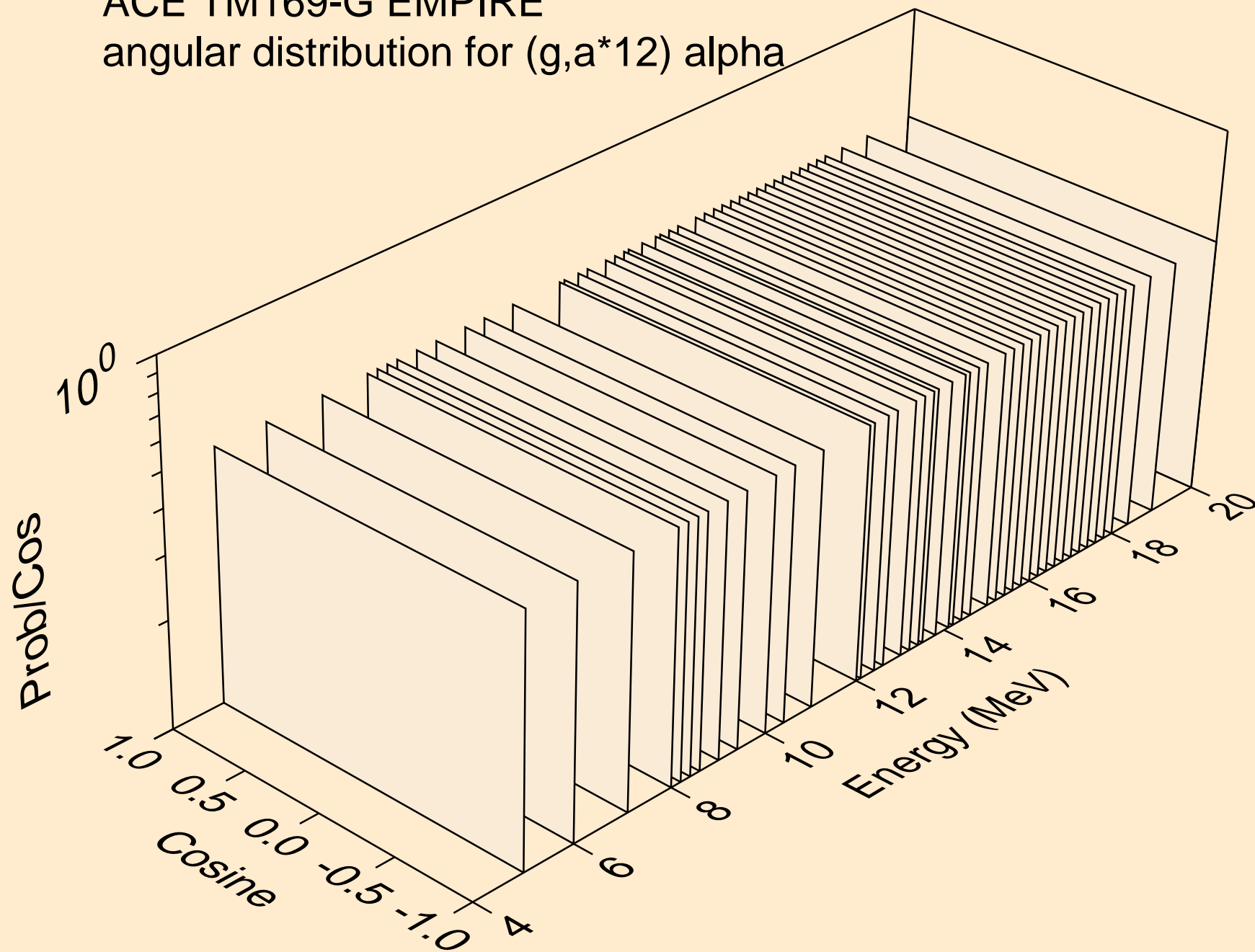
ACE TM169-G EMPIRE
angular distribution for (g,a*11) alpha



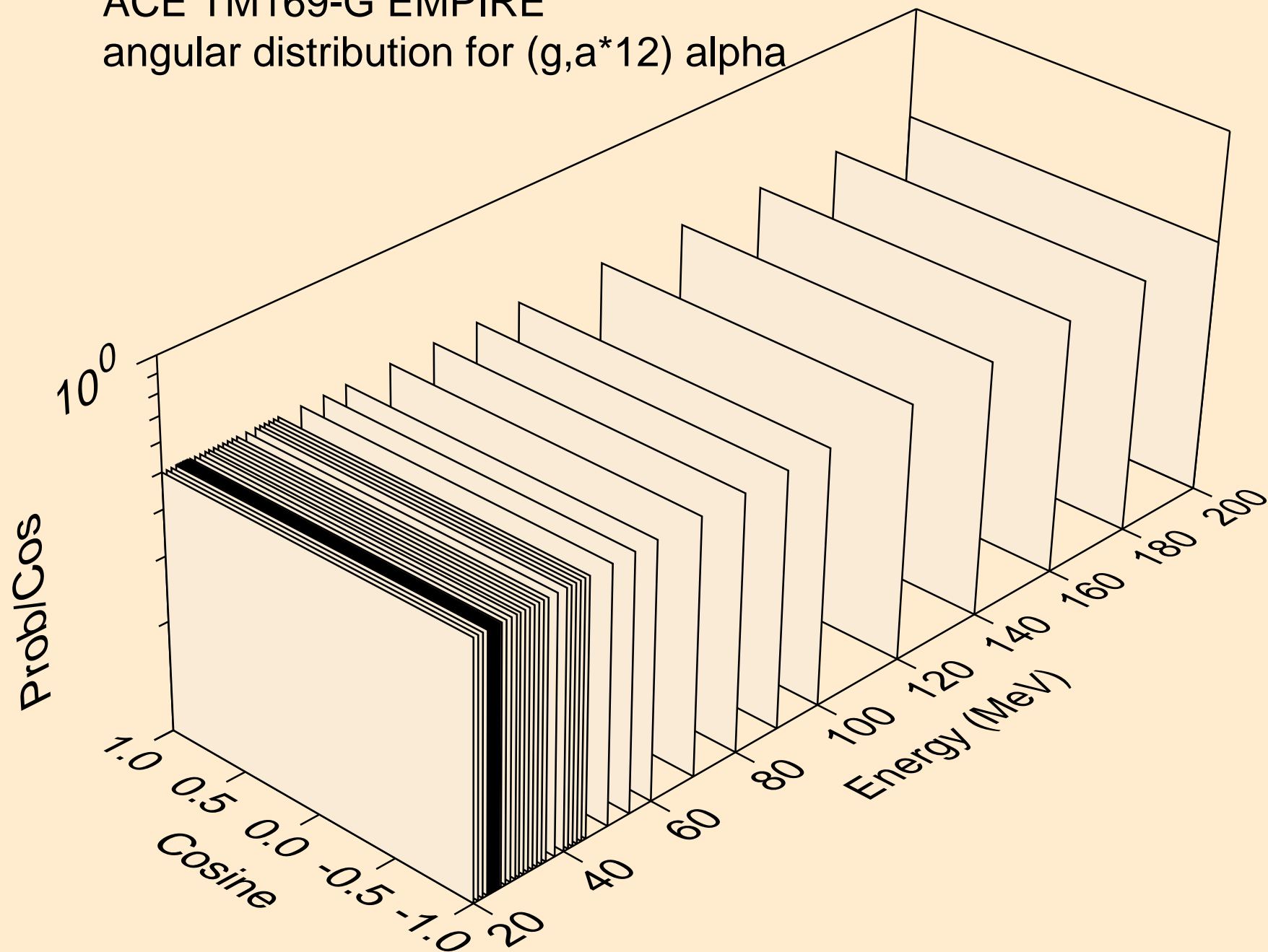
ACE TM169-G EMPIRE
angular distribution for (g,a*11) alpha



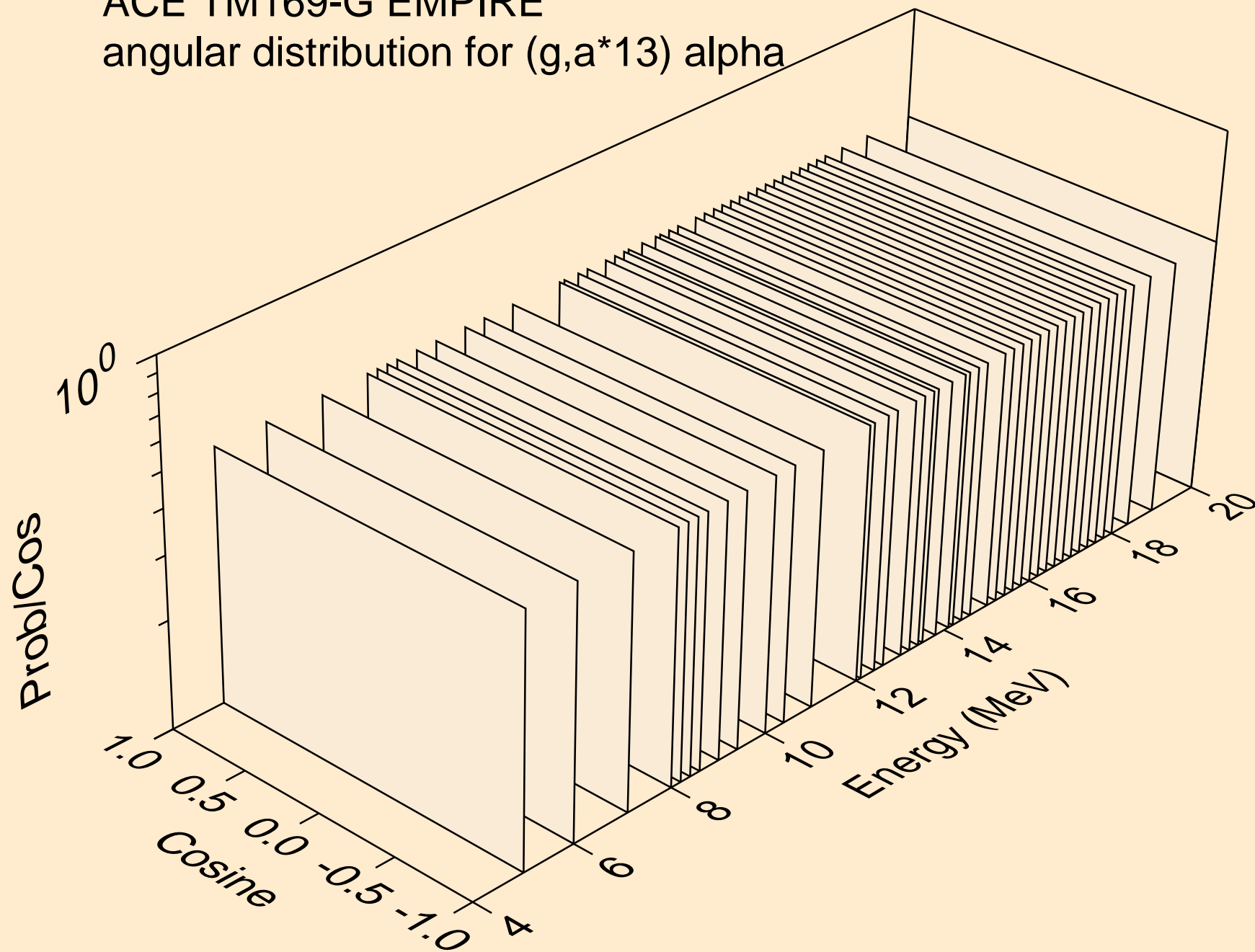
ACE TM169-G EMPIRE
angular distribution for (g,a*12) alpha



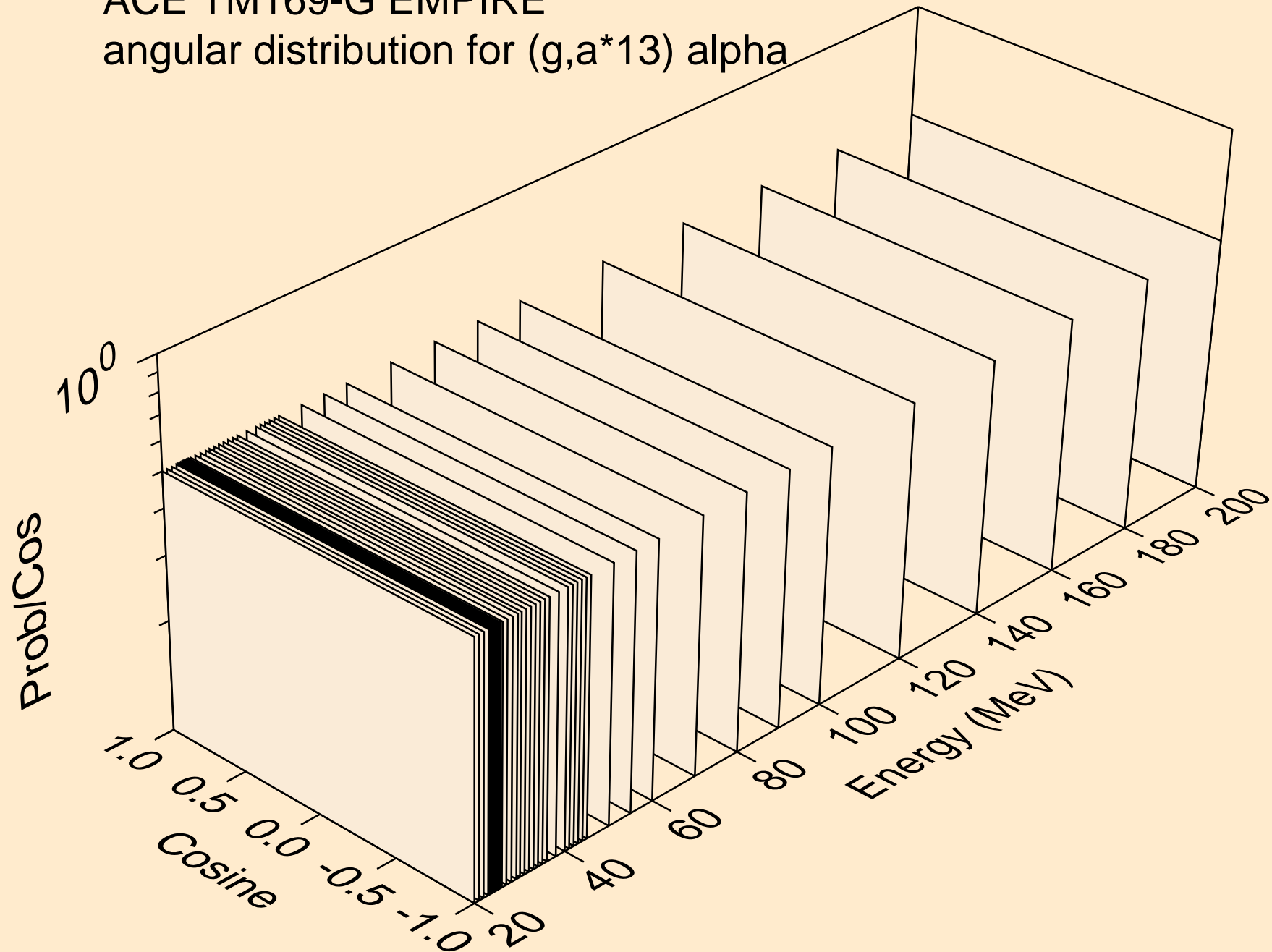
ACE TM169-G EMPIRE
angular distribution for (g,a*12) alpha



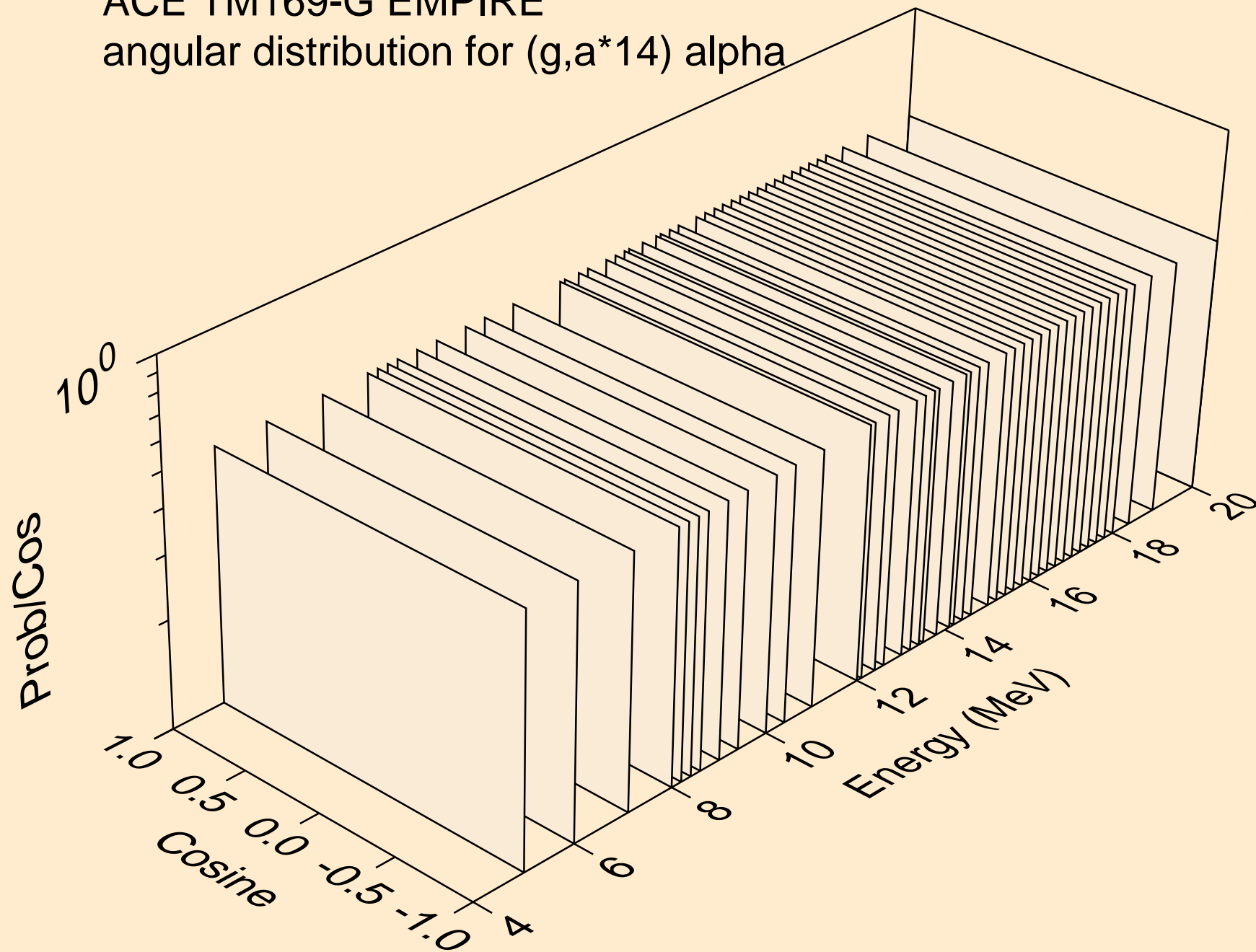
ACE TM169-G EMPIRE
angular distribution for (g,a*13) alpha



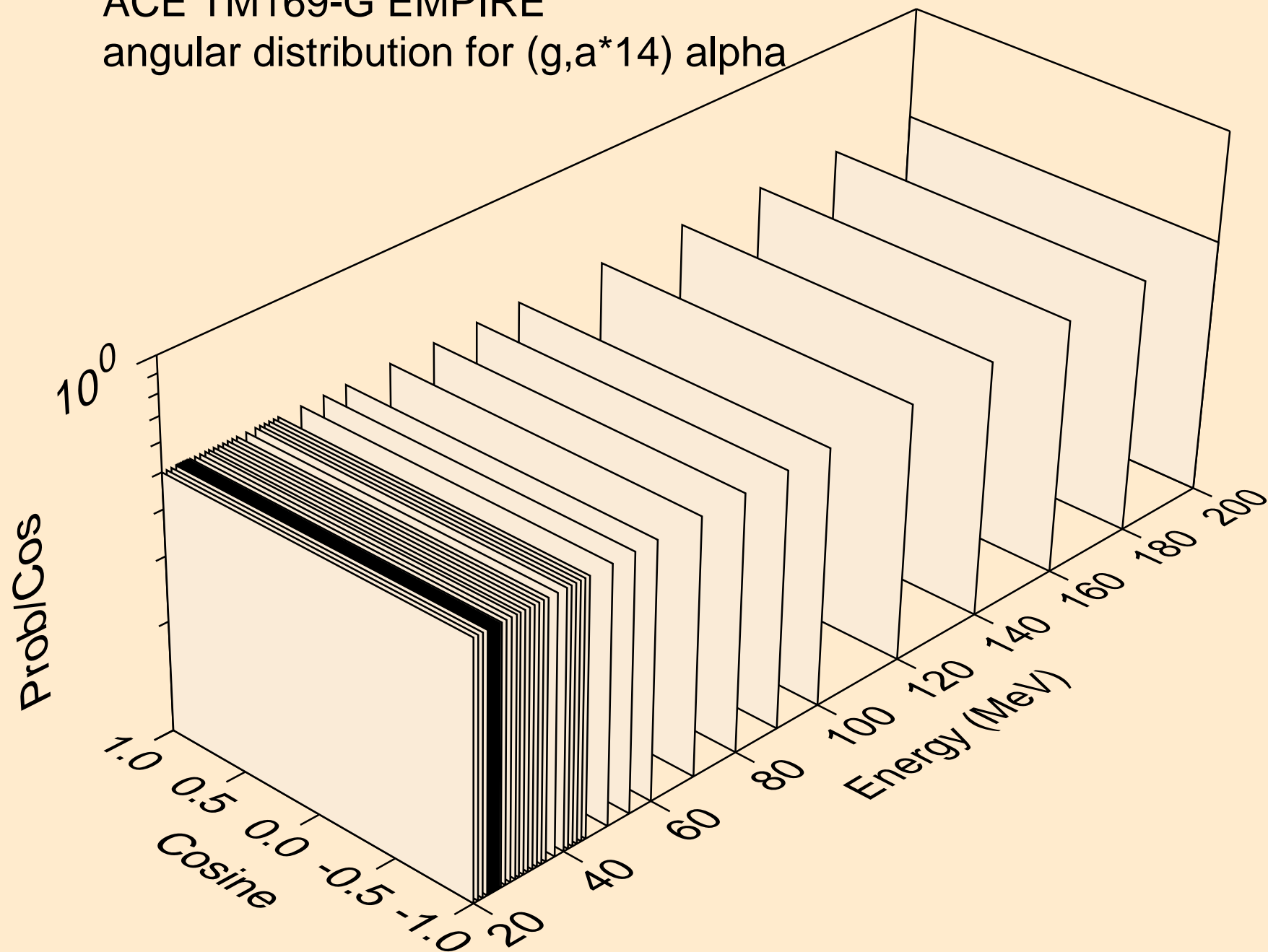
ACE TM169-G EMPIRE
angular distribution for (g,a*13) alpha



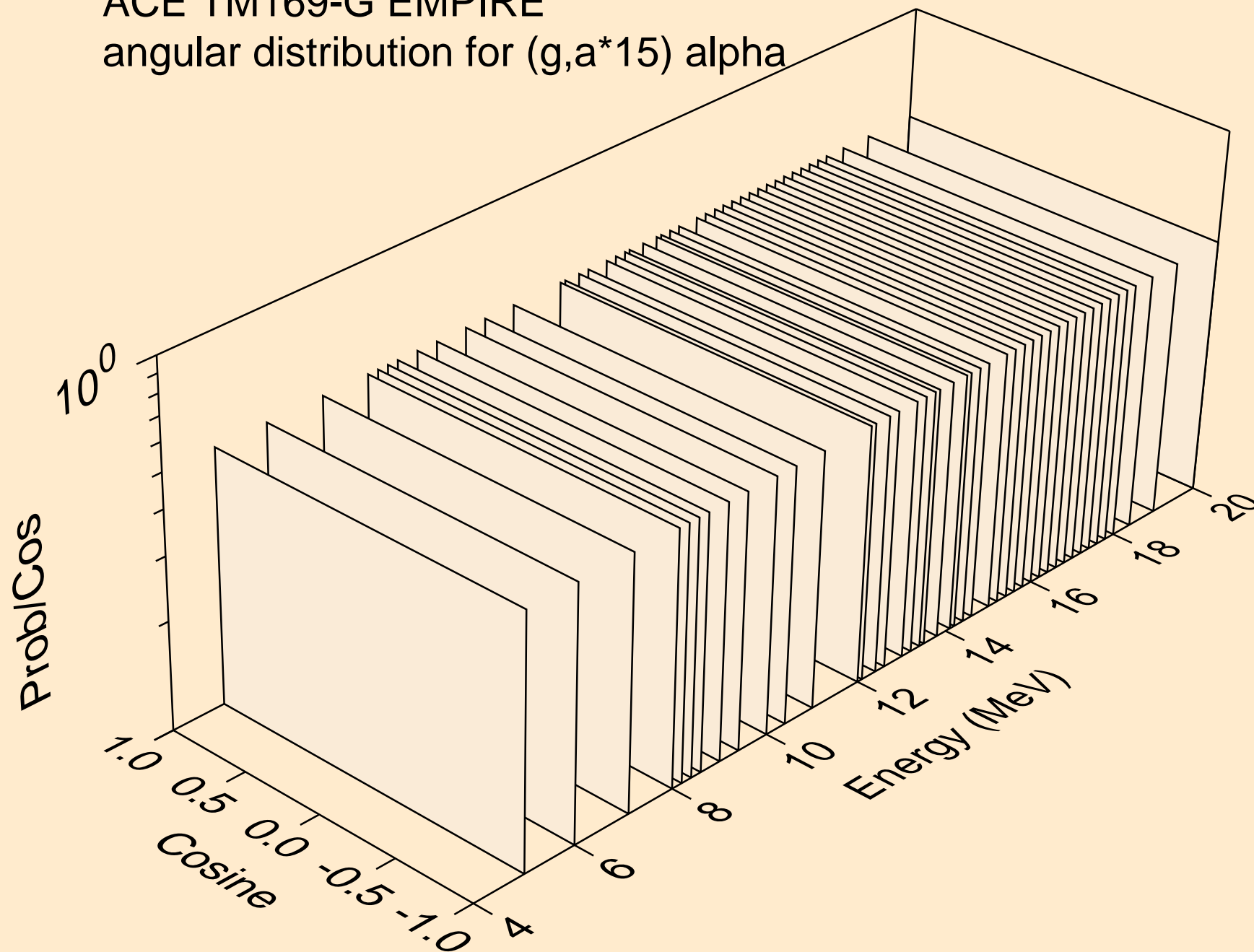
ACE TM169-G EMPIRE
angular distribution for (g,a*14) alpha



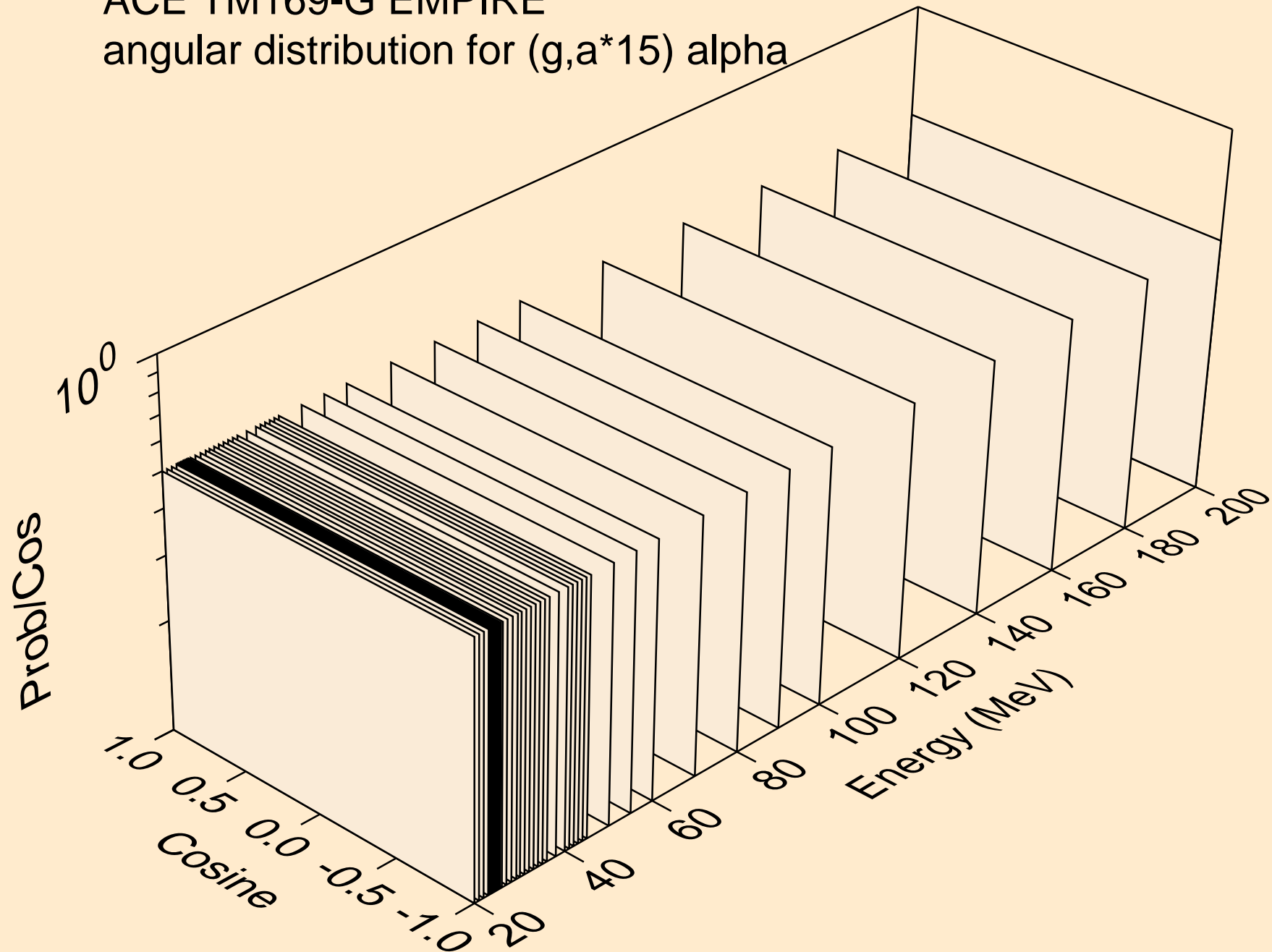
ACE TM169-G EMPIRE
angular distribution for (g,a*14) alpha



ACE TM169-G EMPIRE
angular distribution for (g,a*15) alpha



ACE TM169-G EMPIRE
angular distribution for (g,a*15) alpha



ACE TM169-G EMPIRE
alphas from (g,a*c)

