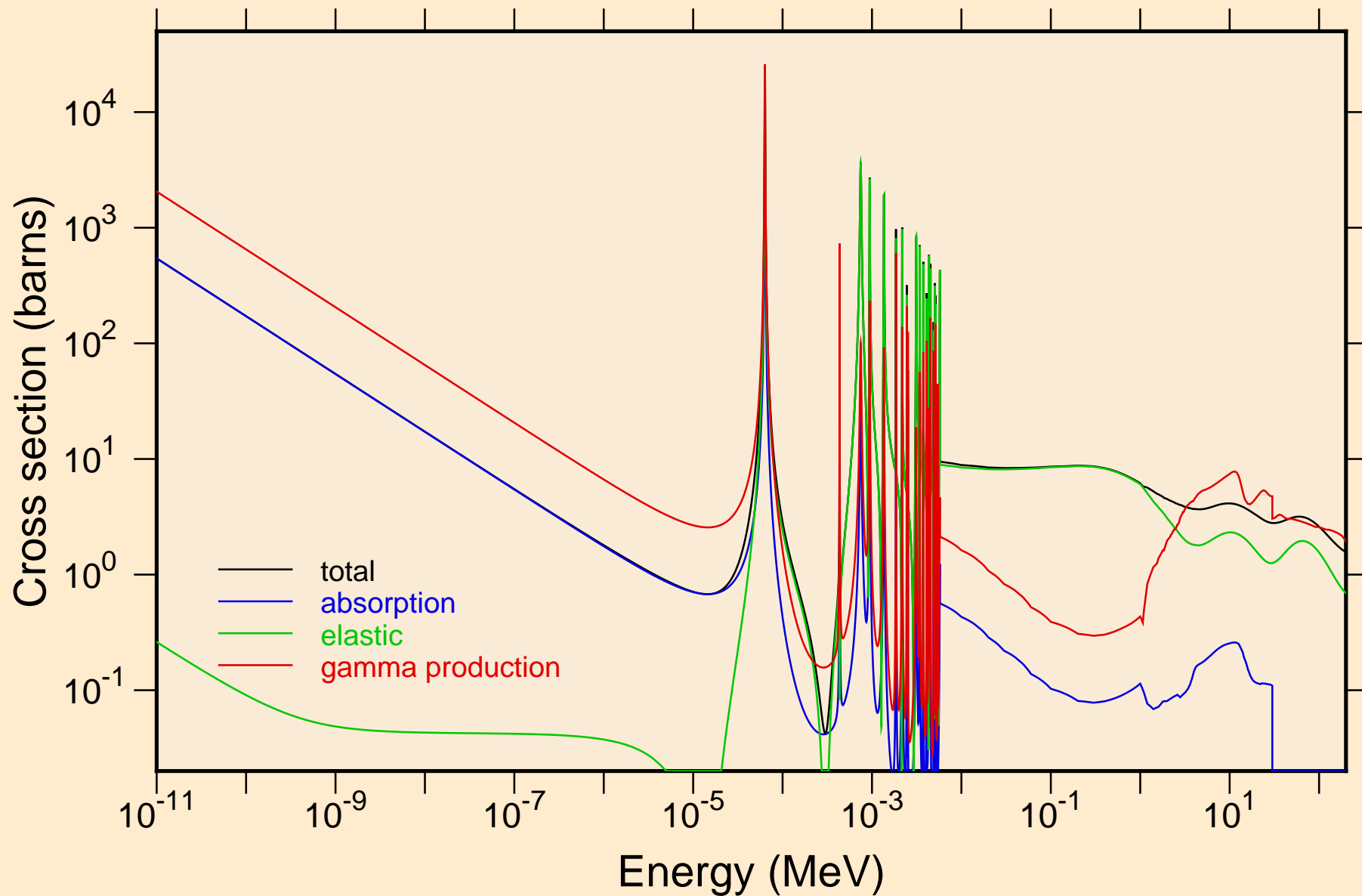
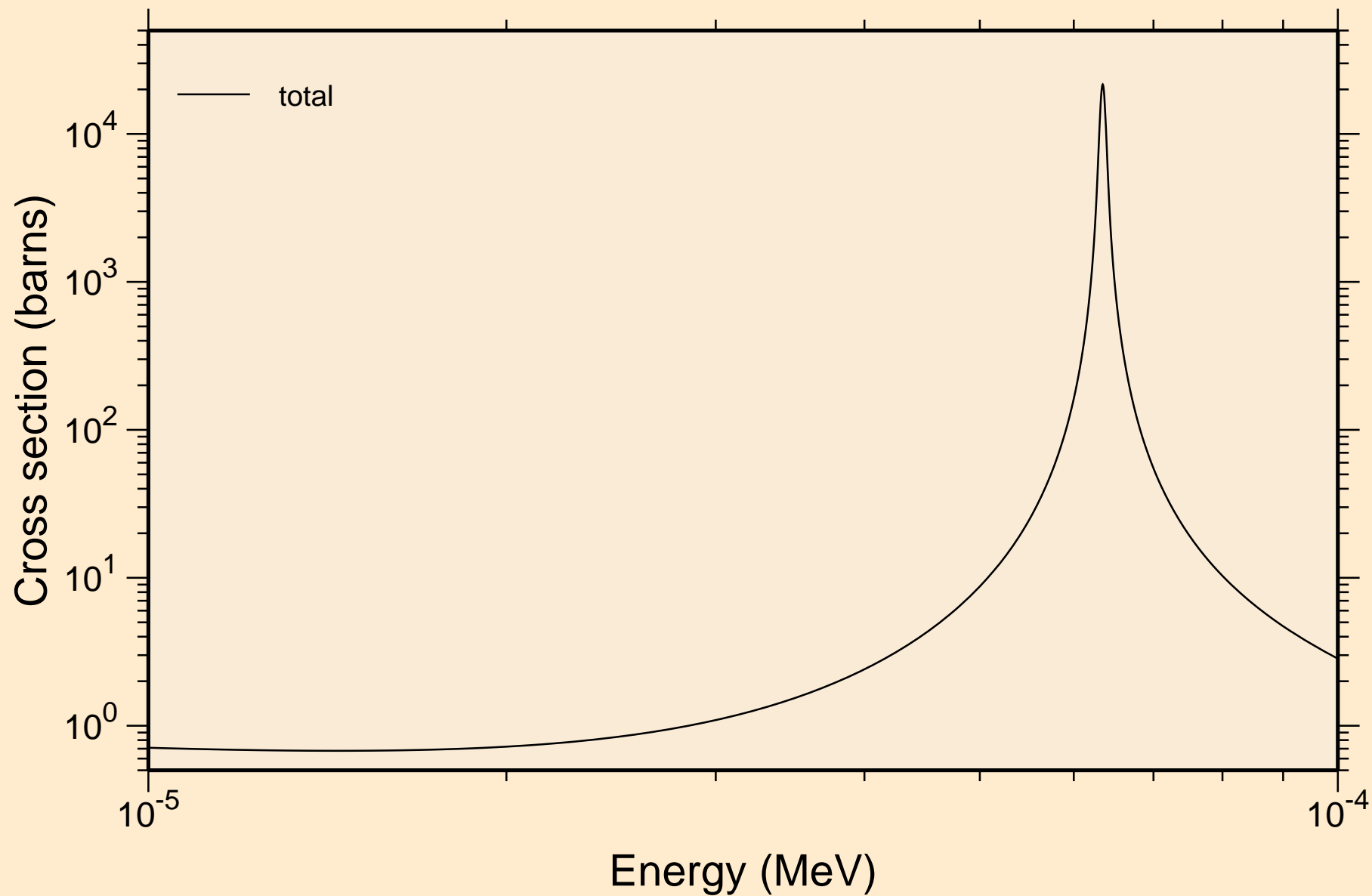


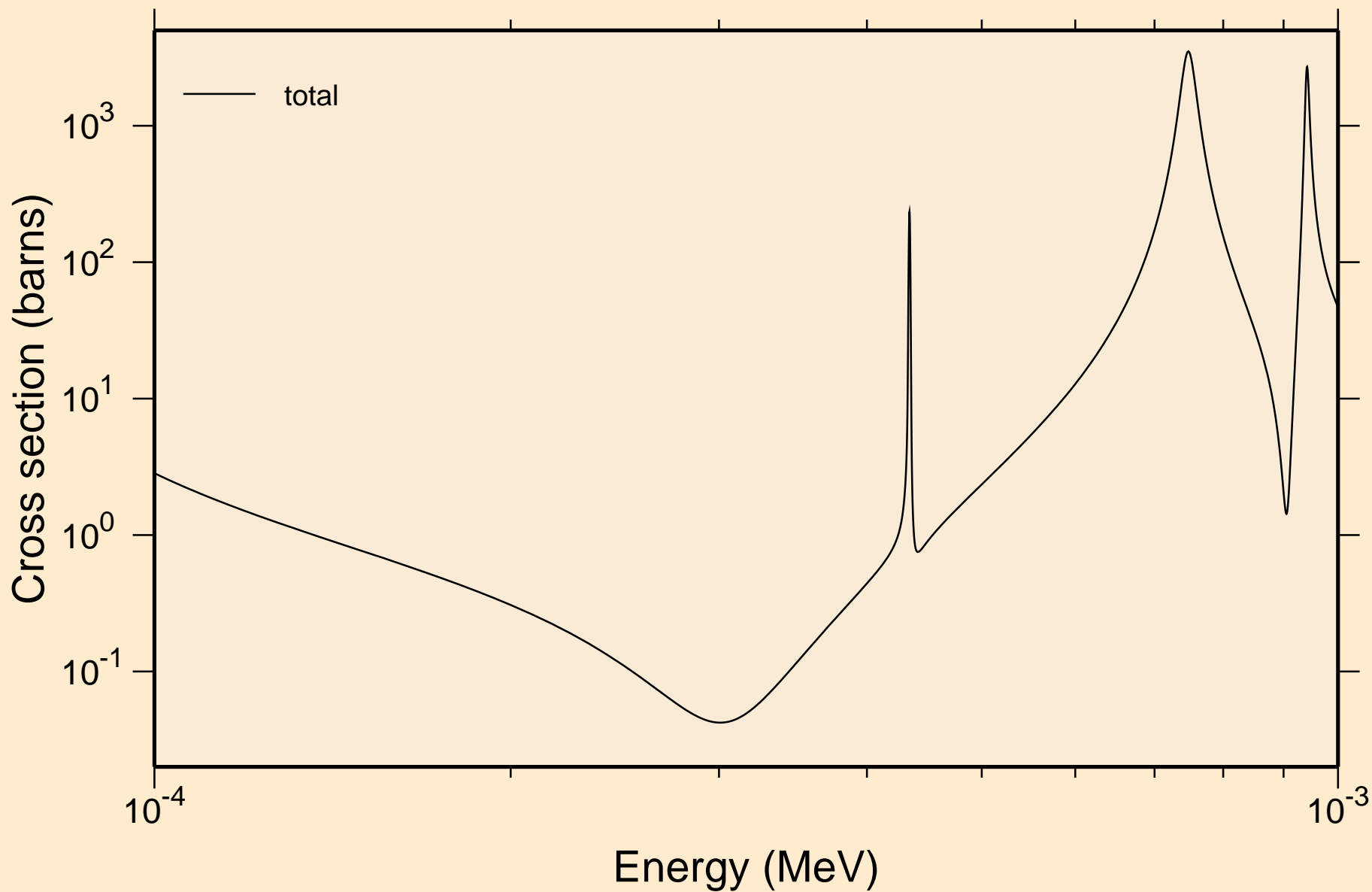
MAT=4019 ACE FILE PRODUCED AT NEA WITH NDEC
Principal cross sections



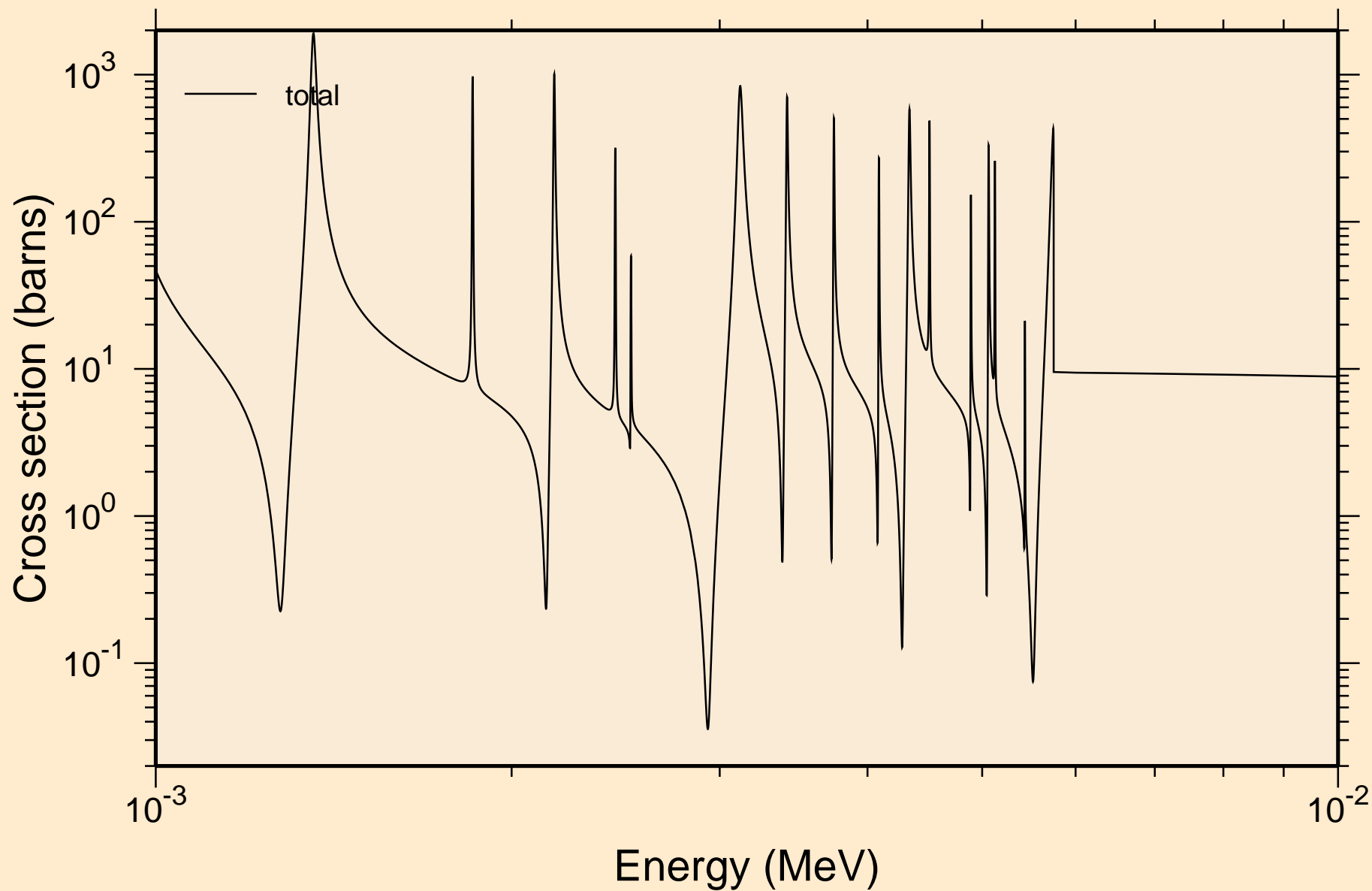
MAT=4019 ACE FILE PRODUCED AT NEA WITH NDEC
resonance total cross section



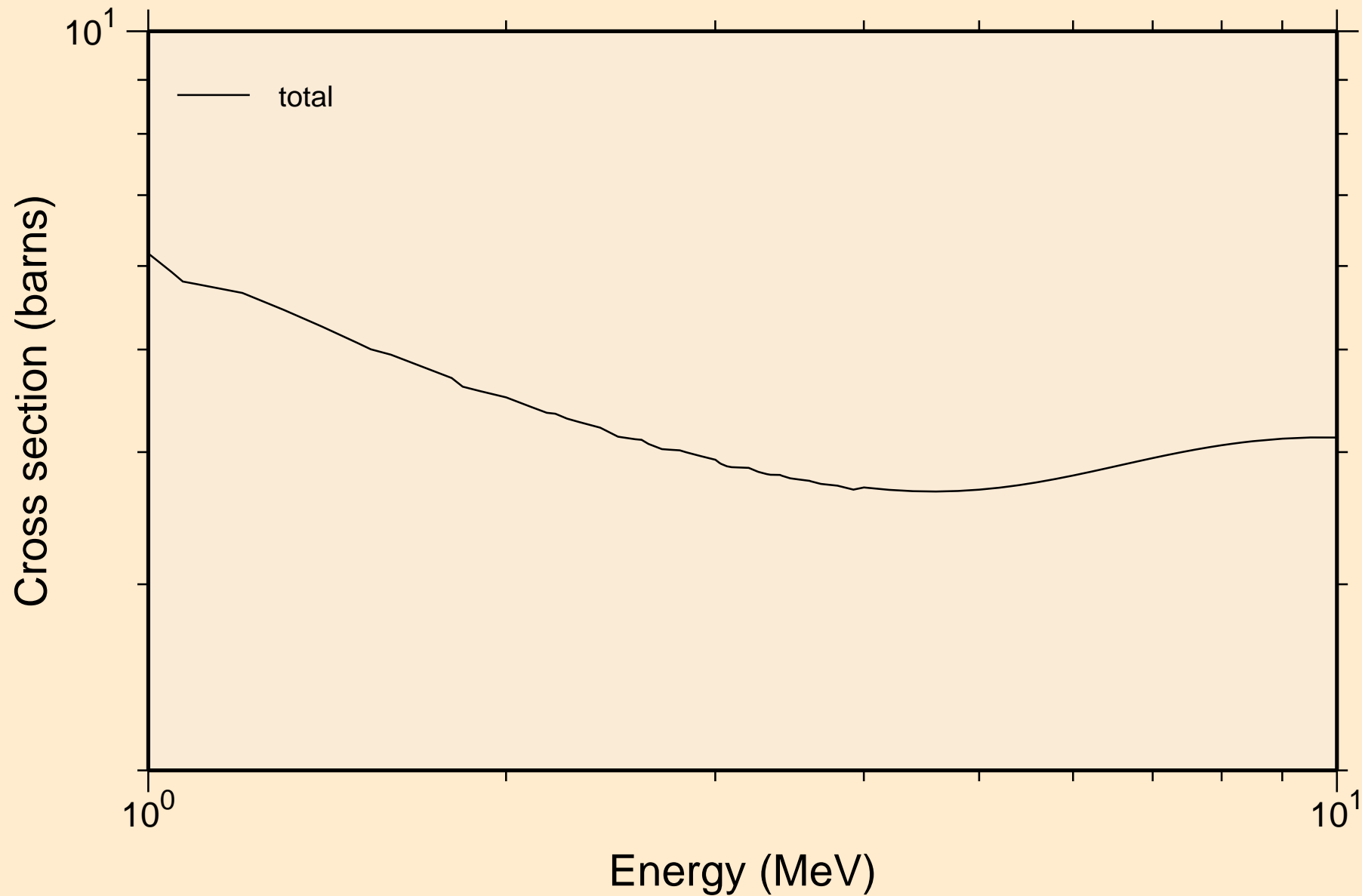
MAT=4019 ACE FILE PRODUCED AT NEA WITH NDEC
resonance total cross section



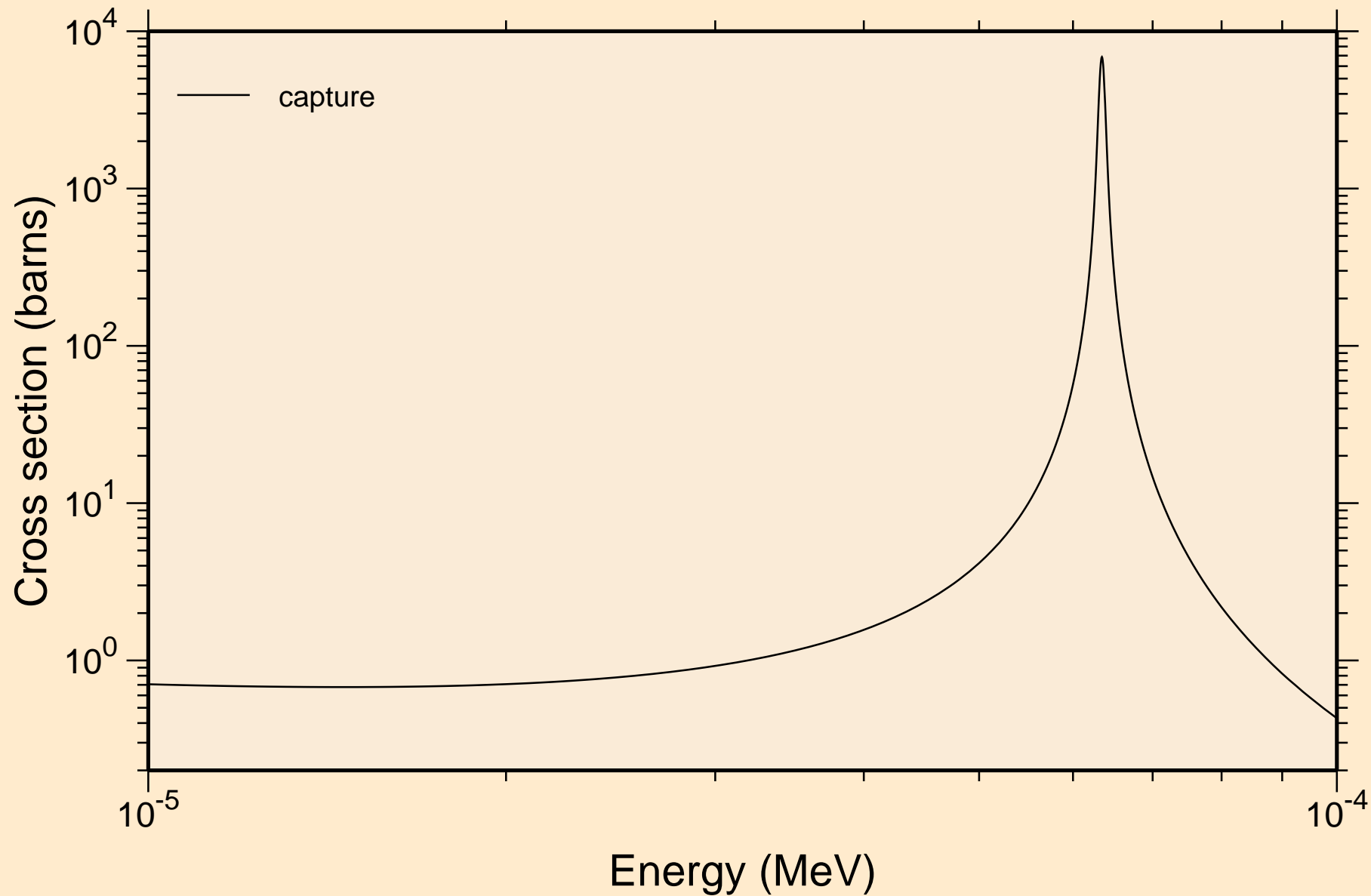
MAT=4019 ACE FILE PRODUCED AT NEA WITH NDEC
resonance total cross section



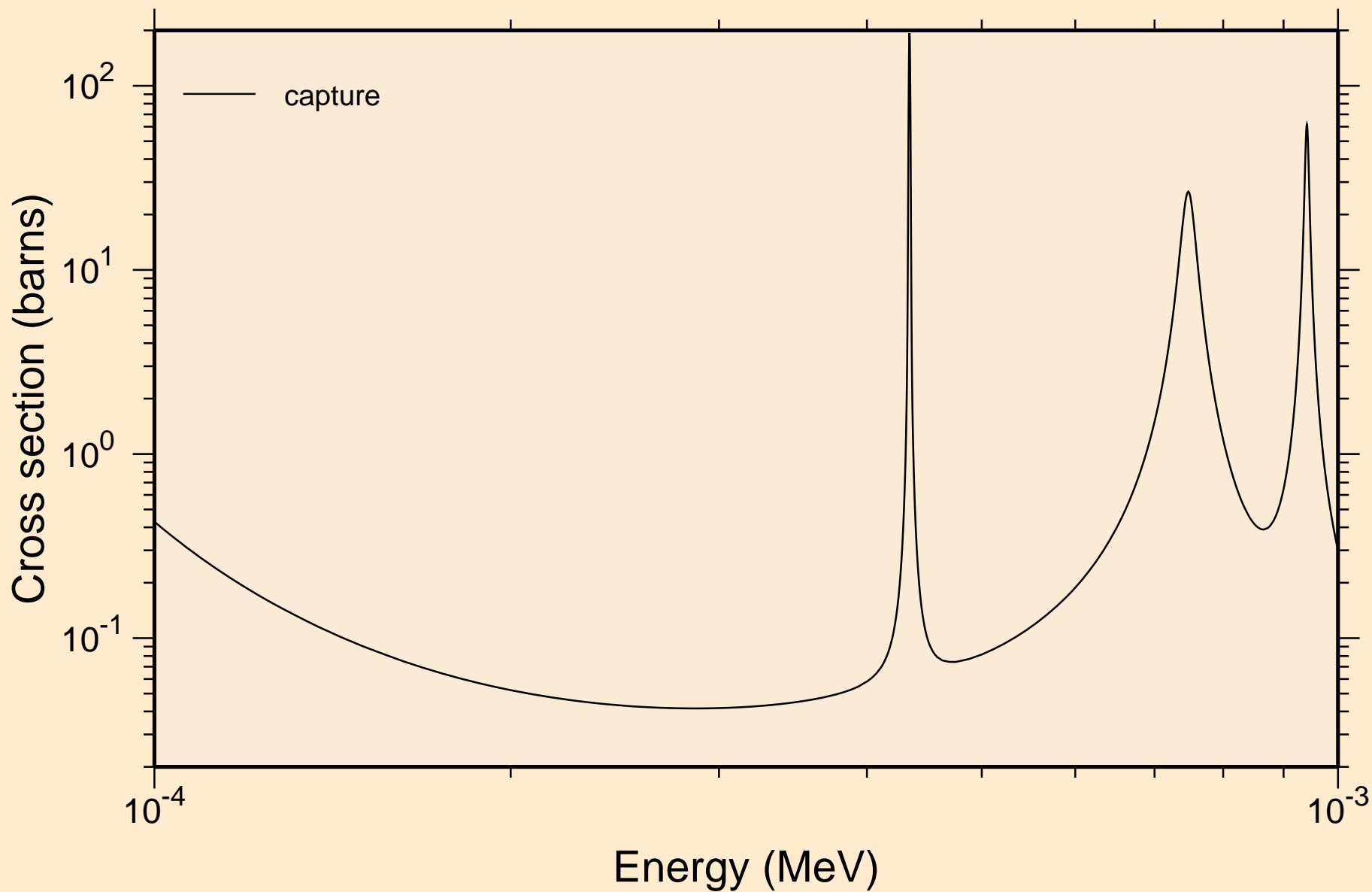
MAT=4019 ACE FILE PRODUCED AT NEA WITH NDEC
resonance total cross section



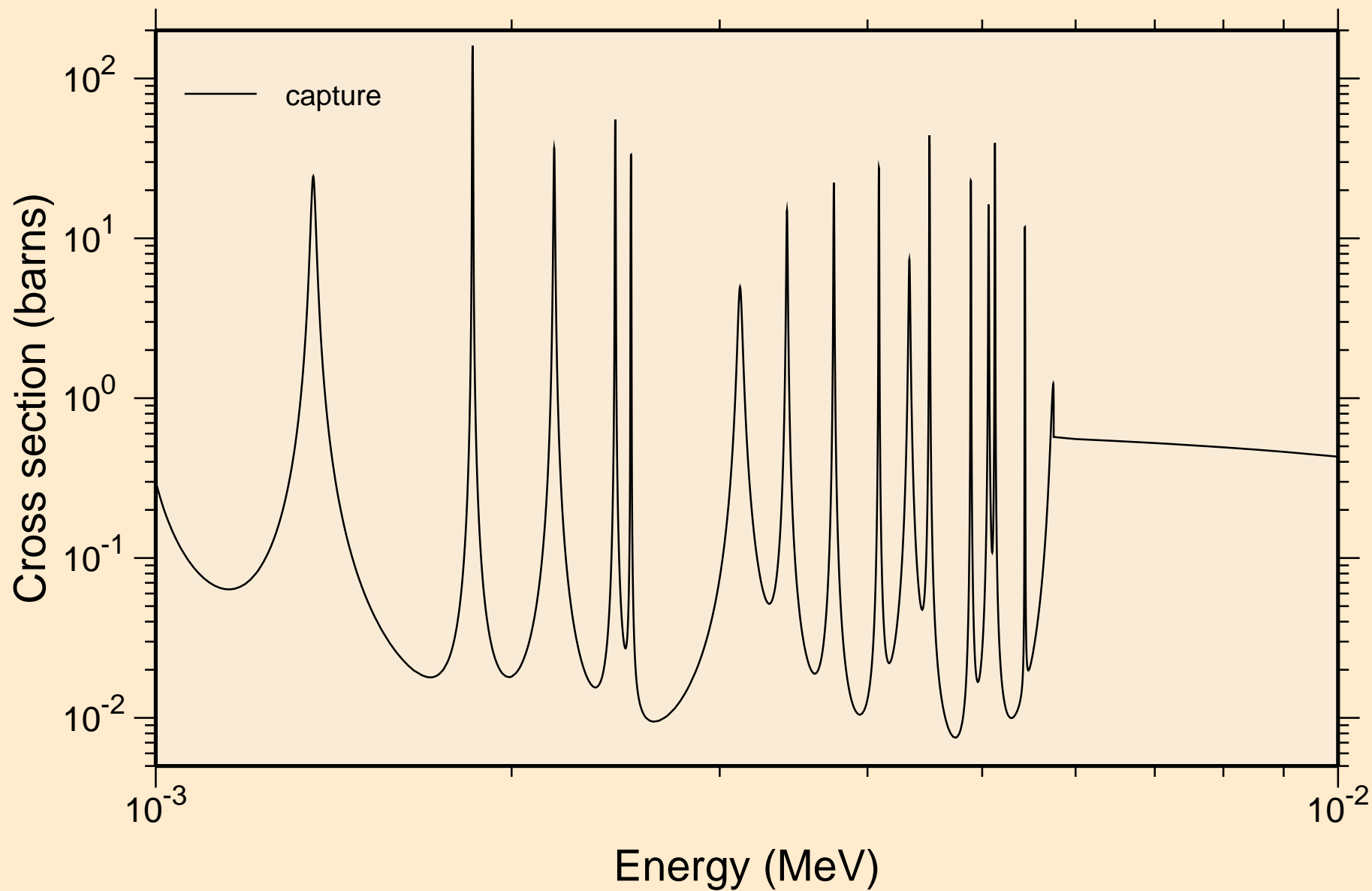
MAT=4019 ACE FILE PRODUCED AT NEA WITH NDEC
resonance absorption cross sections



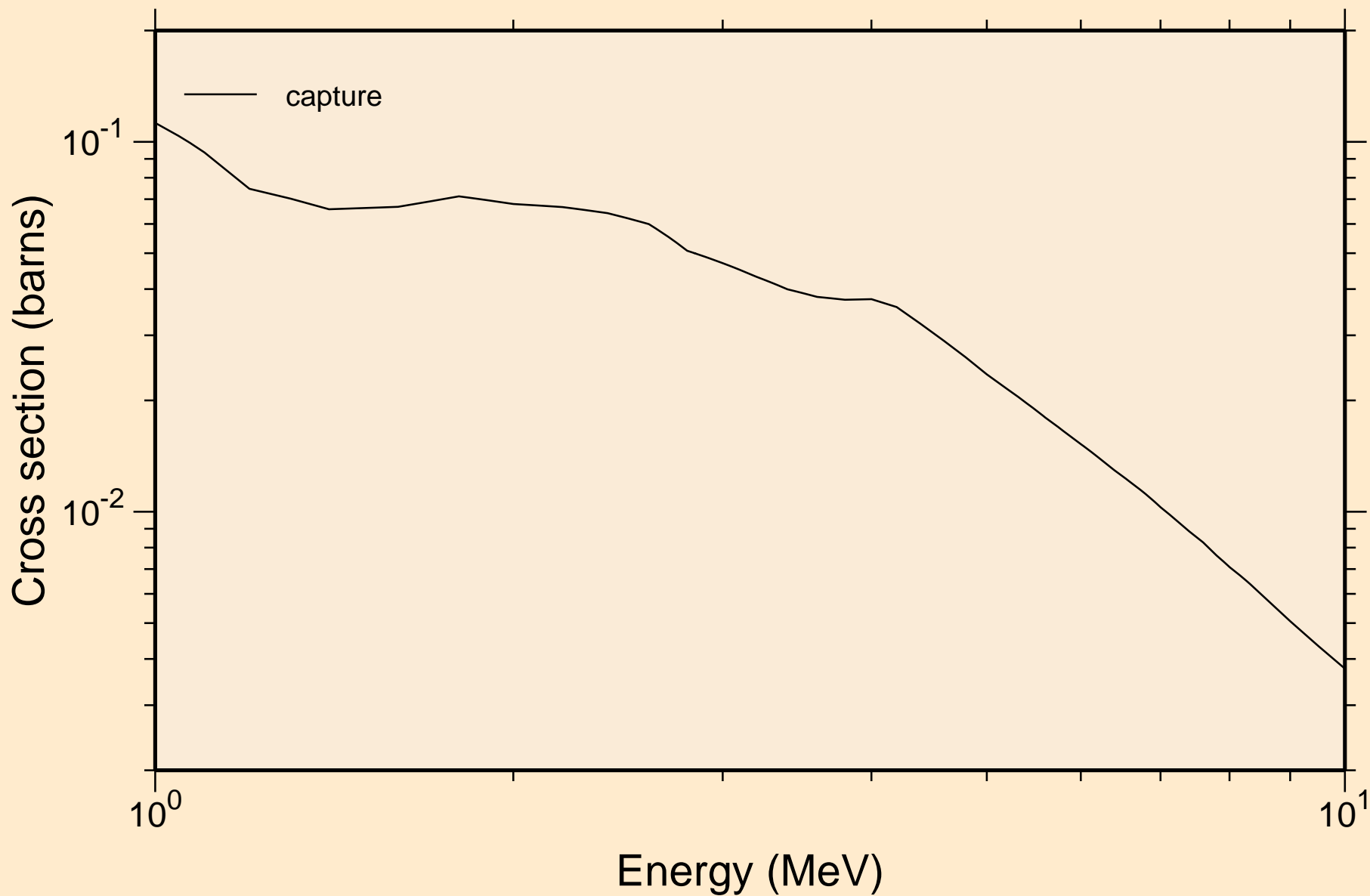
MAT=4019 ACE FILE PRODUCED AT NEA WITH NDEC
resonance absorption cross sections



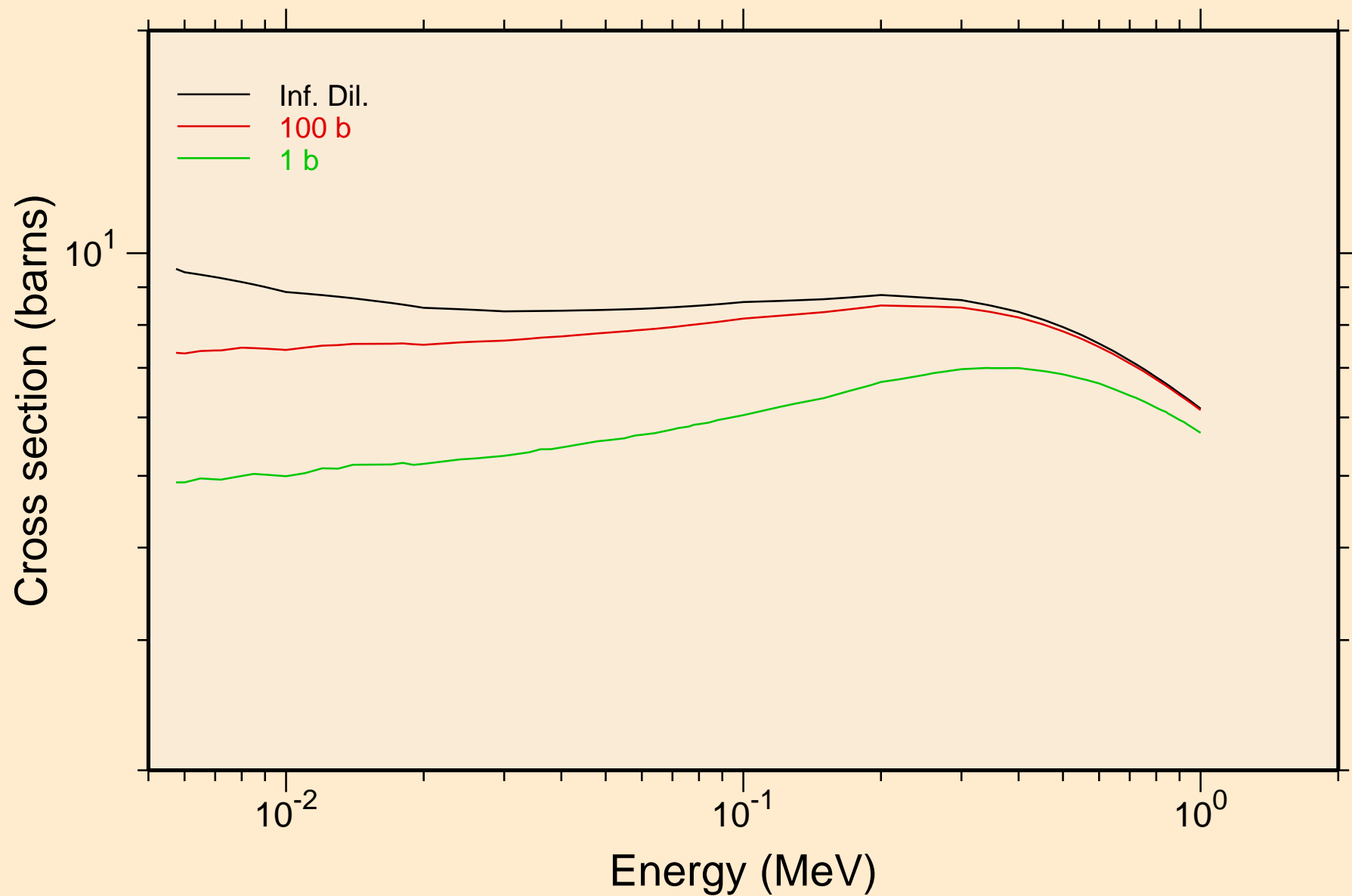
MAT=4019 ACE FILE PRODUCED AT NEA WITH NDEC
resonance absorption cross sections



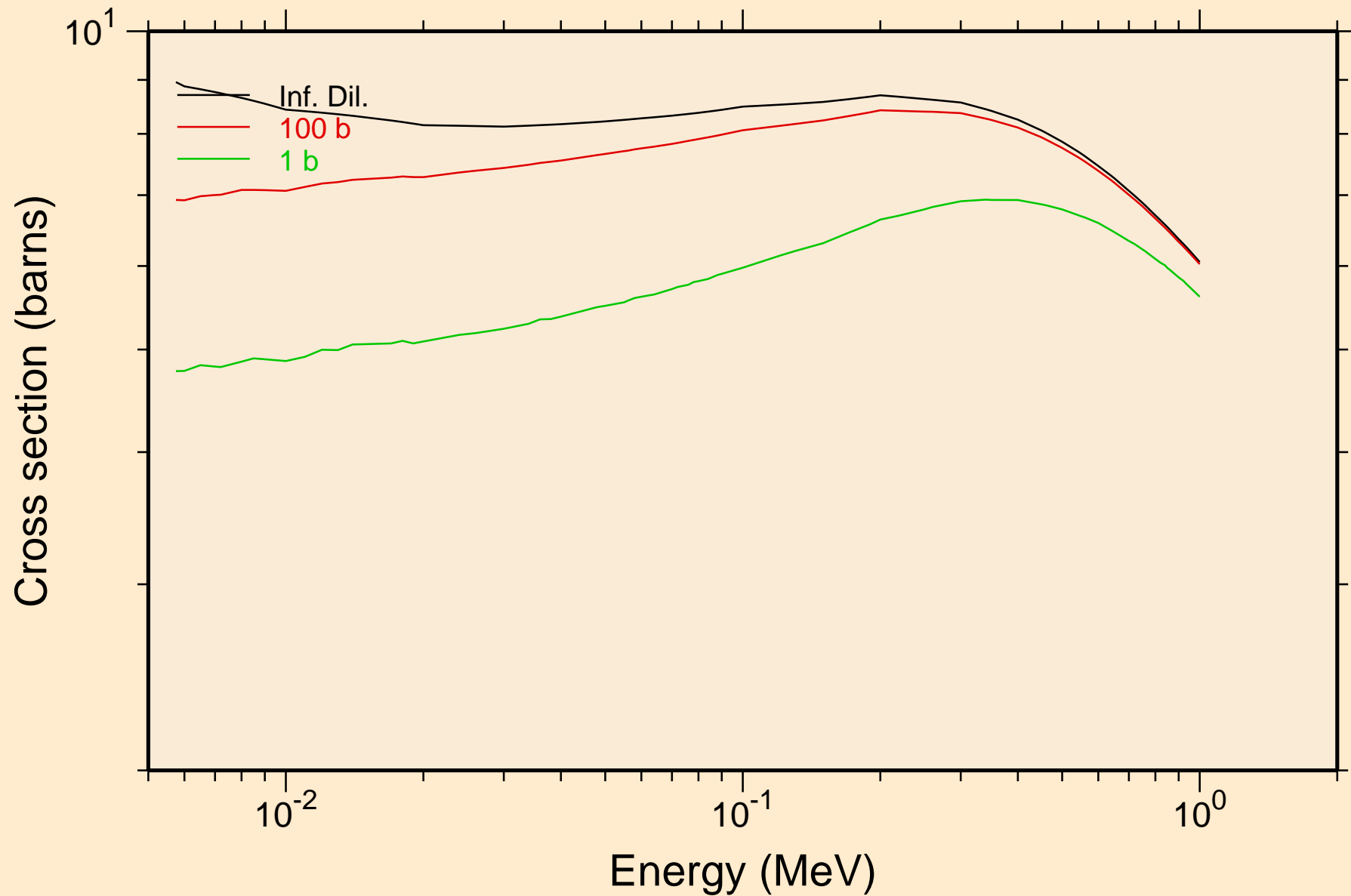
MAT=4019 ACE FILE PRODUCED AT NEA WITH NDEC
resonance absorption cross sections



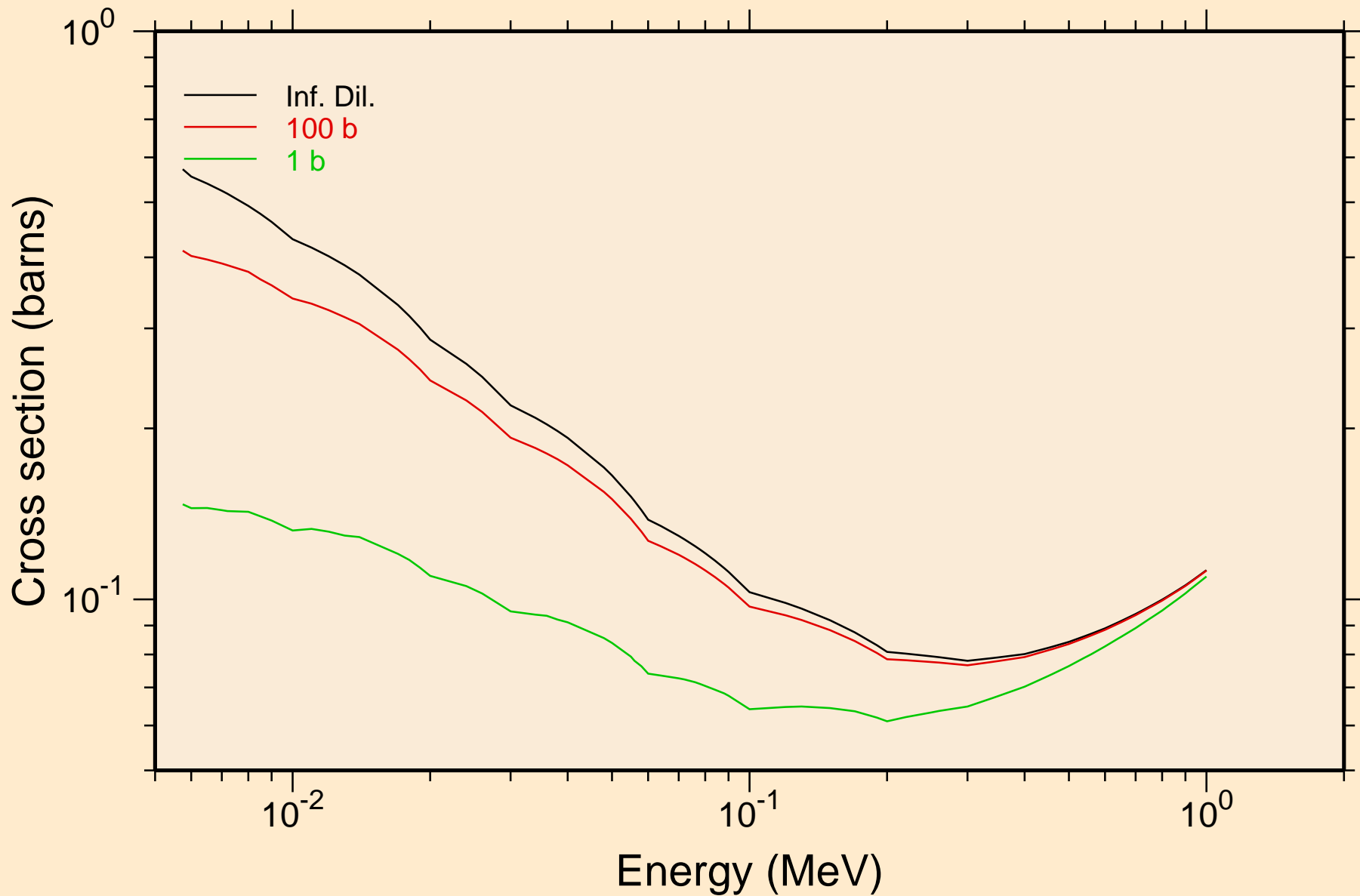
MAT=4019 ACE FILE PRODUCED AT NEA WITH NDEC
UR total cross section



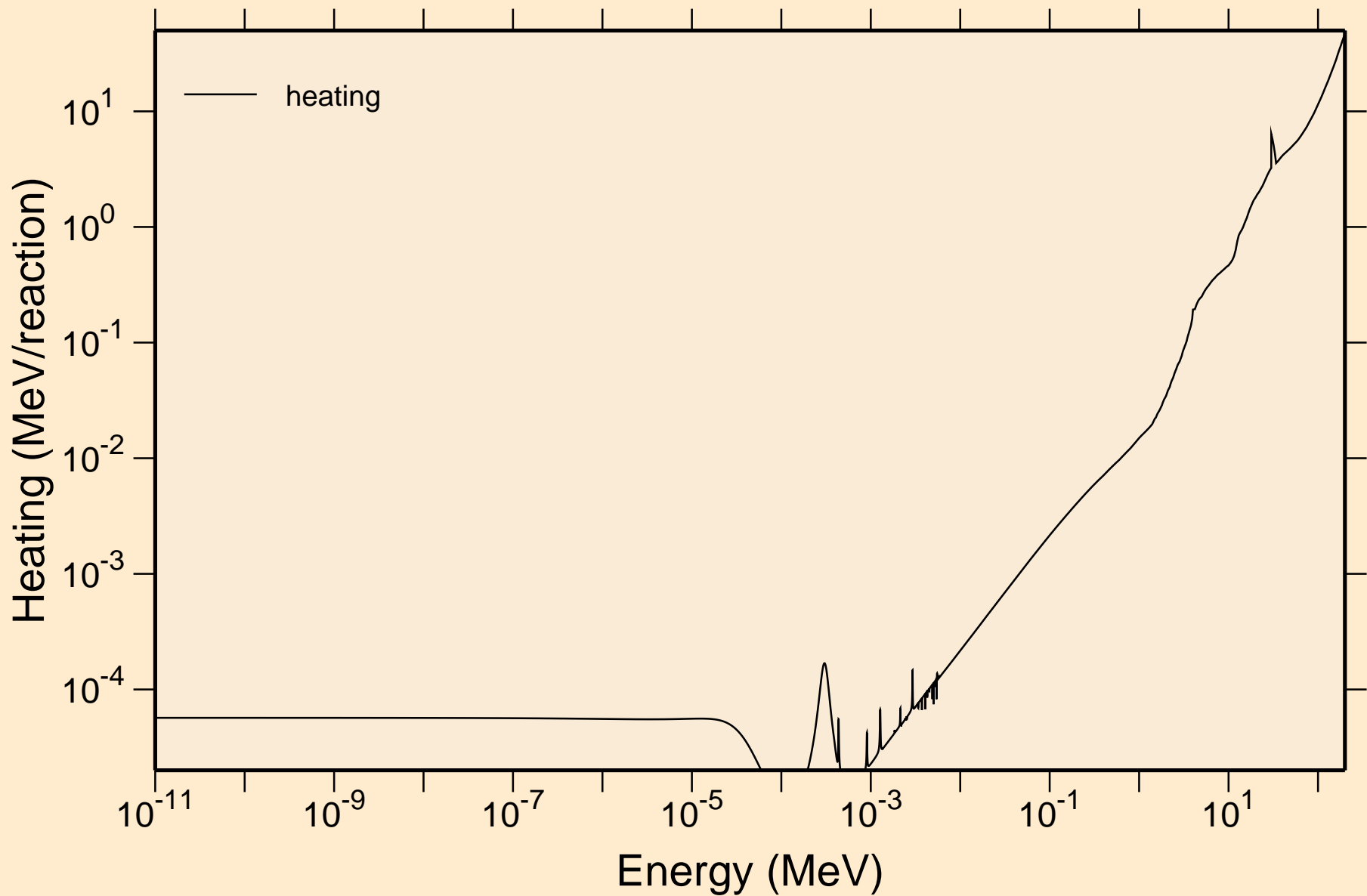
MAT=4019 ACE FILE PRODUCED AT NEA WITH NDEC
UR elastic cross section



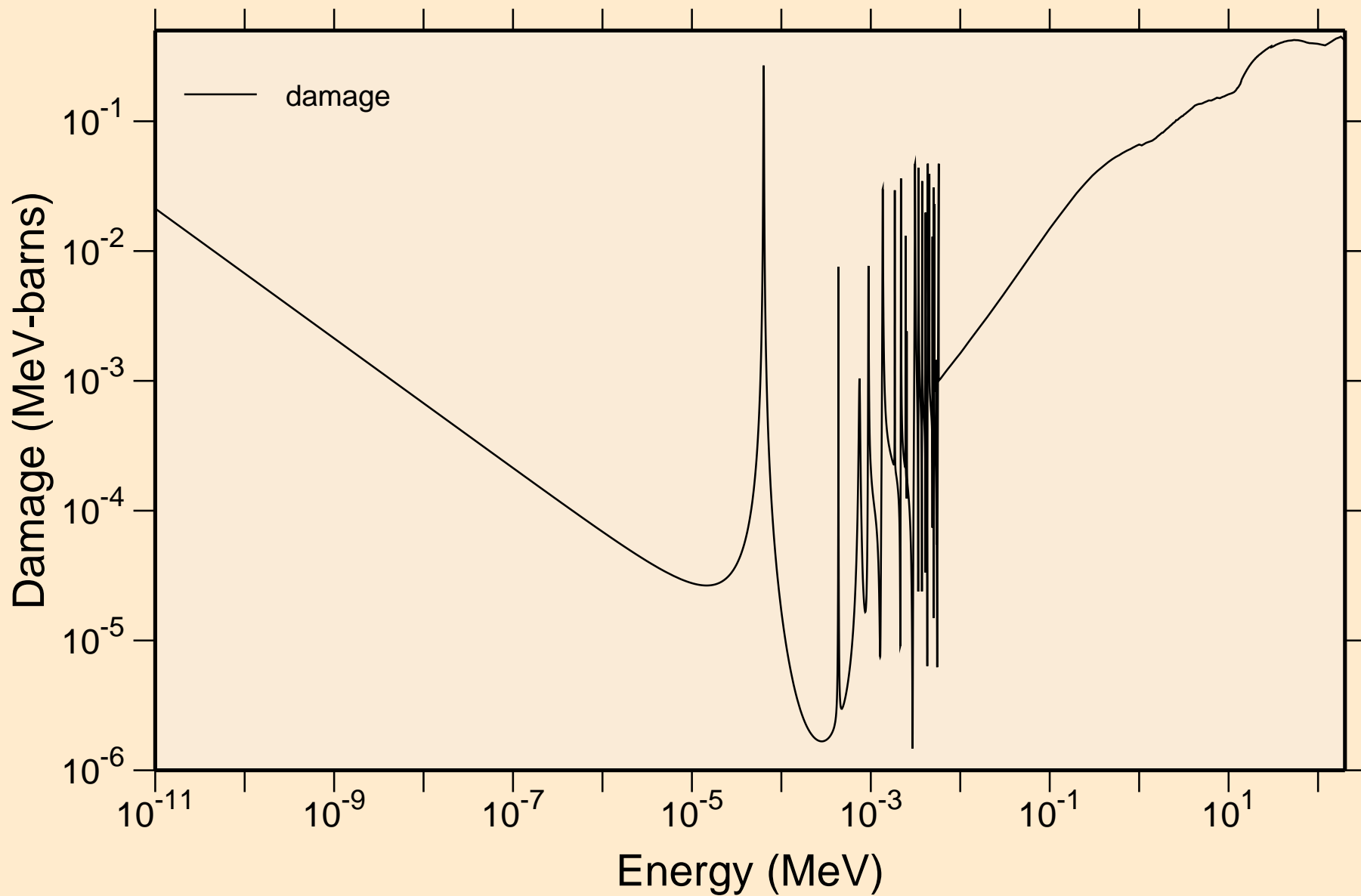
MAT=4019 ACE FILE PRODUCED AT NEA WITH NDEC
UR capture cross section



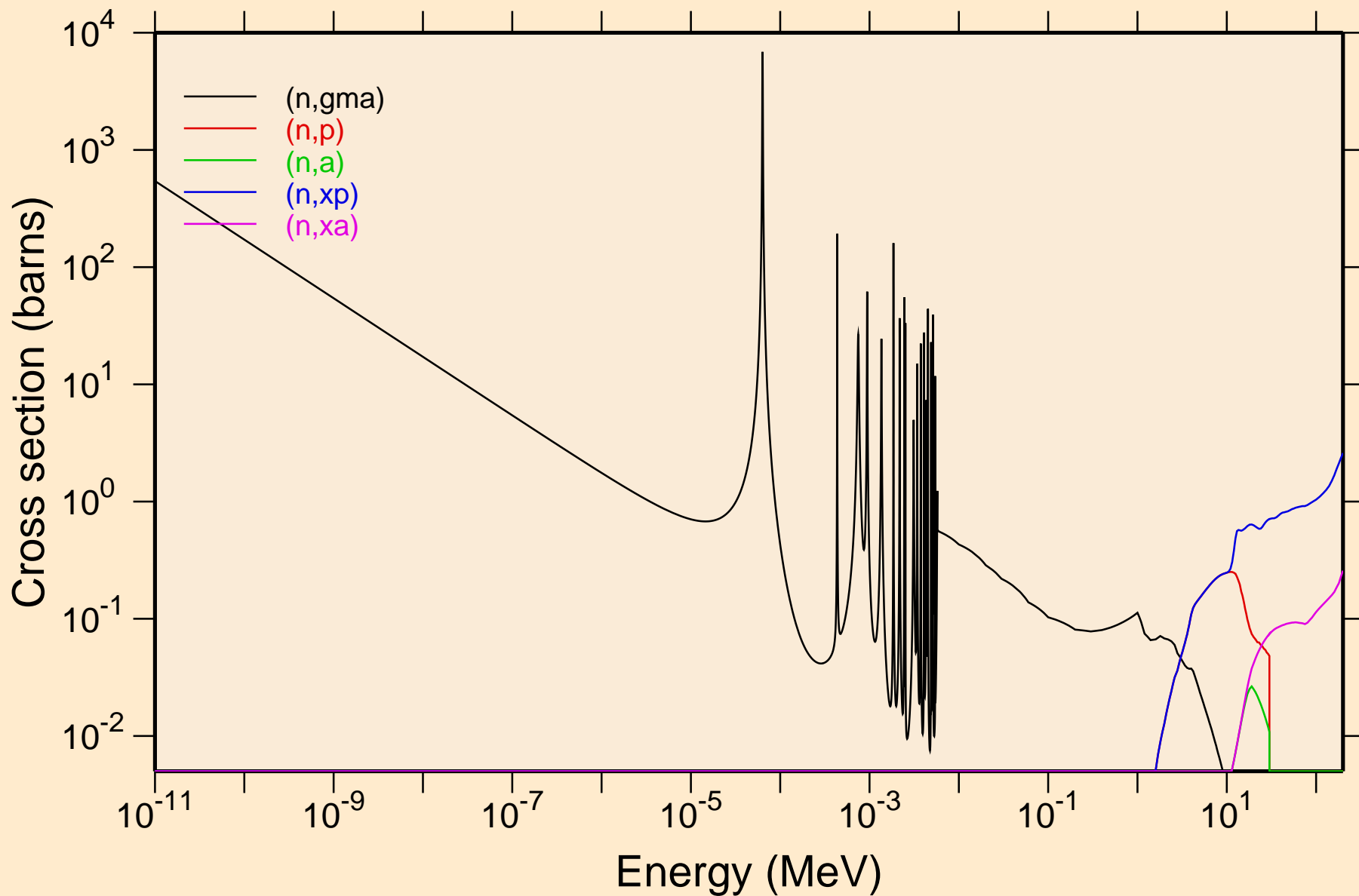
MAT=4019 ACE FILE PRODUCED AT NEA WITH NDEC
Heating



MAT=4019 ACE FILE PRODUCED AT NEA WITH NDEC
Damage

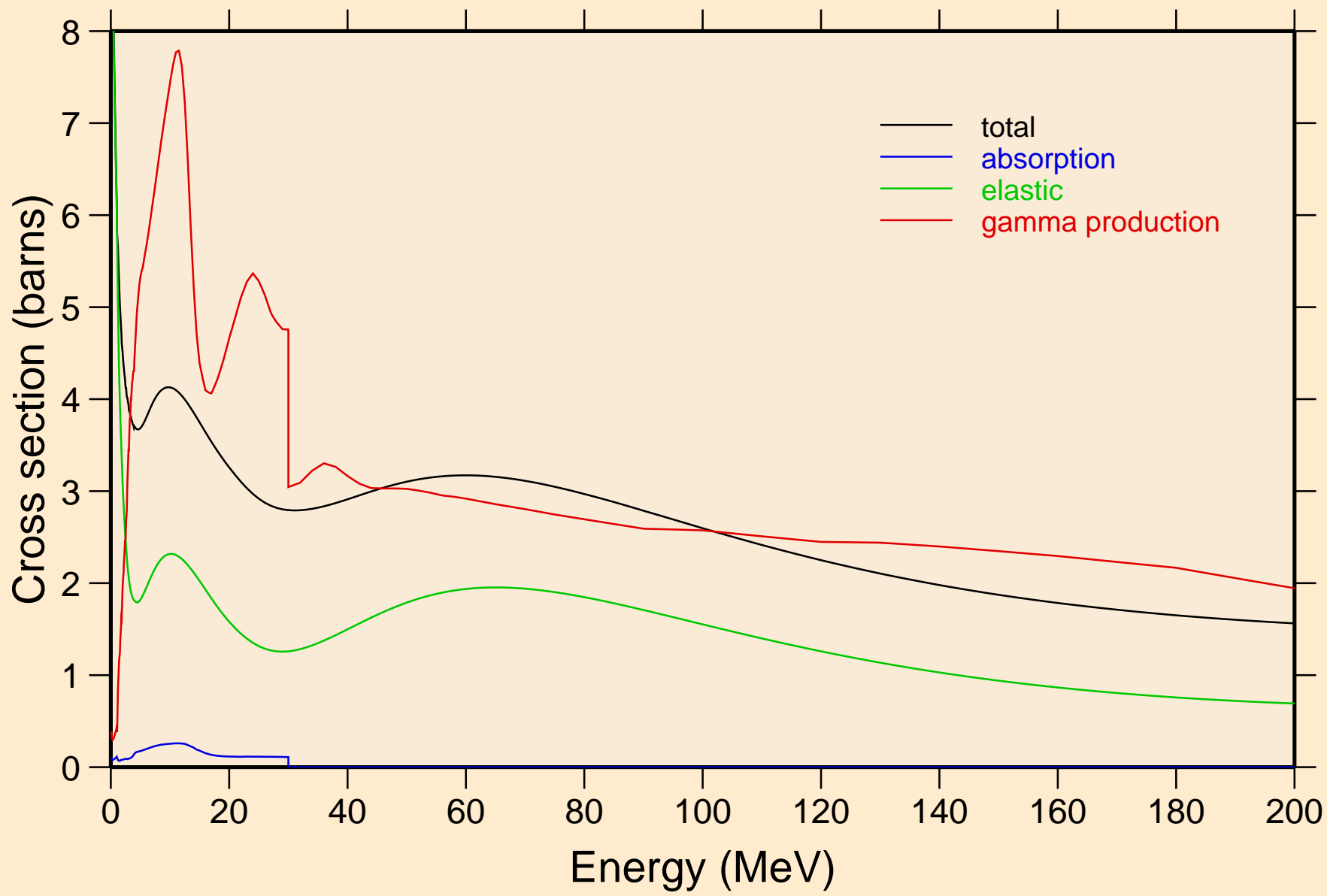


MAT=4019 ACE FILE PRODUCED AT NEA WITH NDEC
Non-threshold reactions

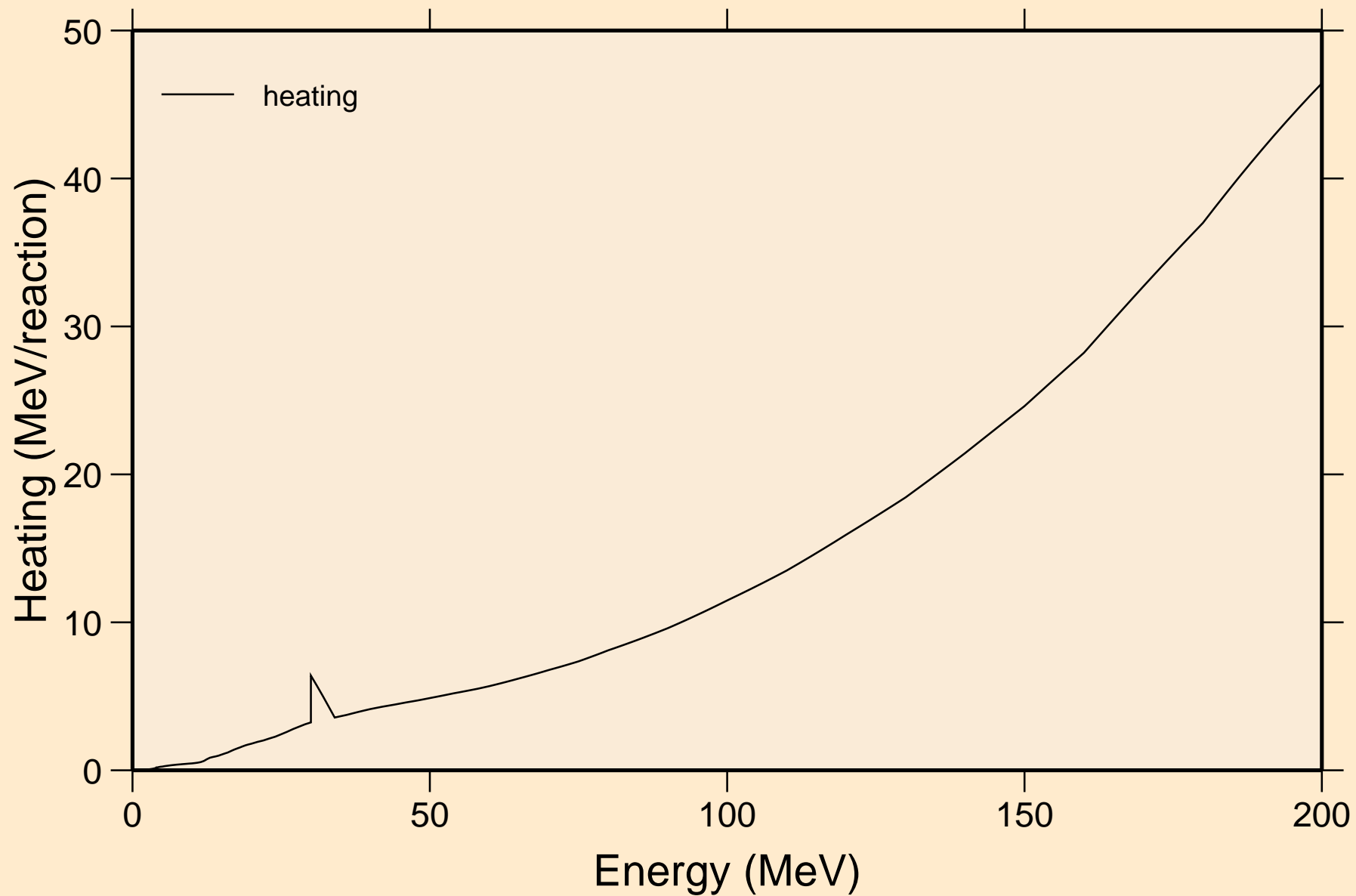


MAT=4019 ACE FILE PRODUCED AT NEA WITH NDEC

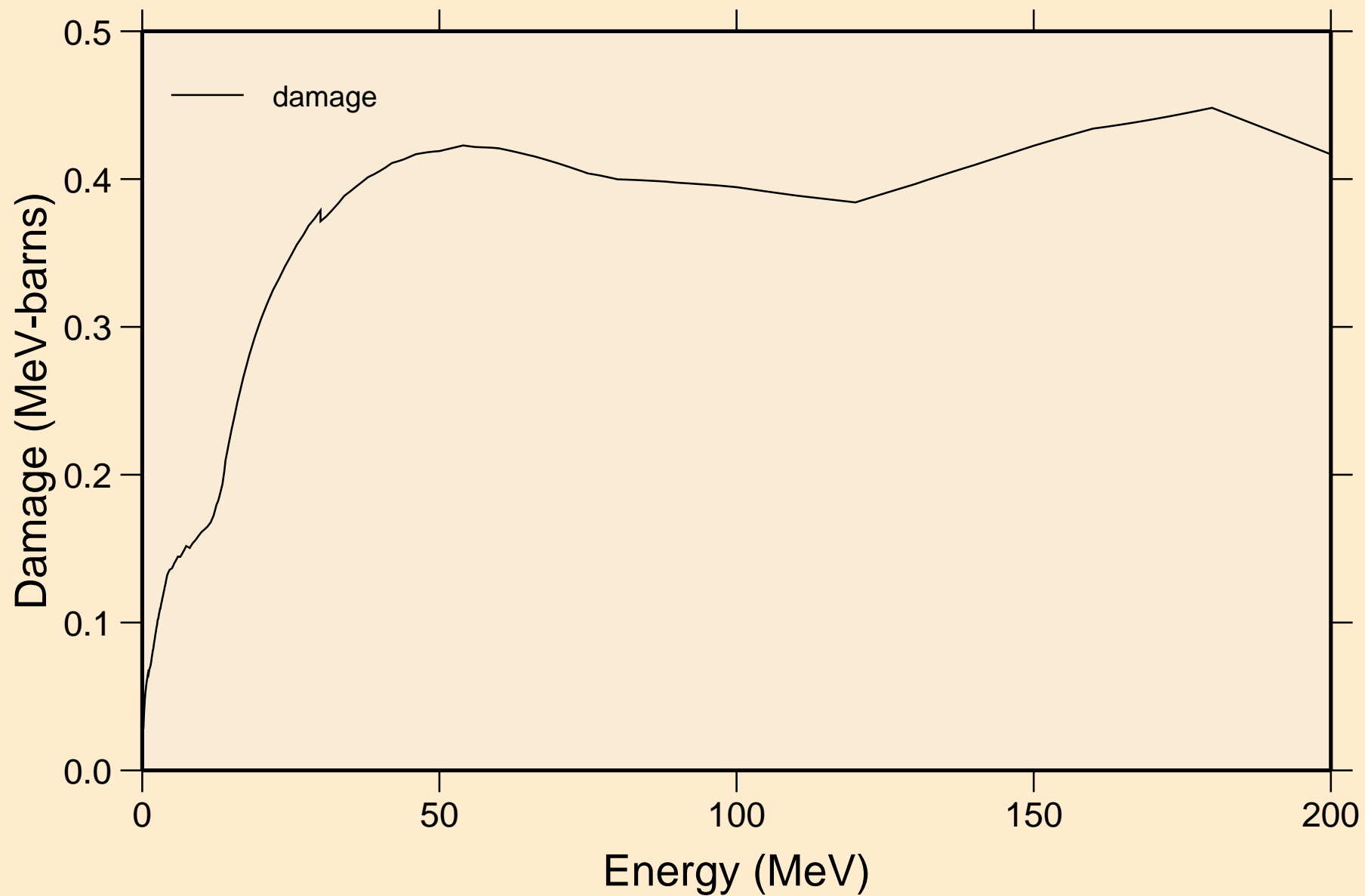
Principal cross sections



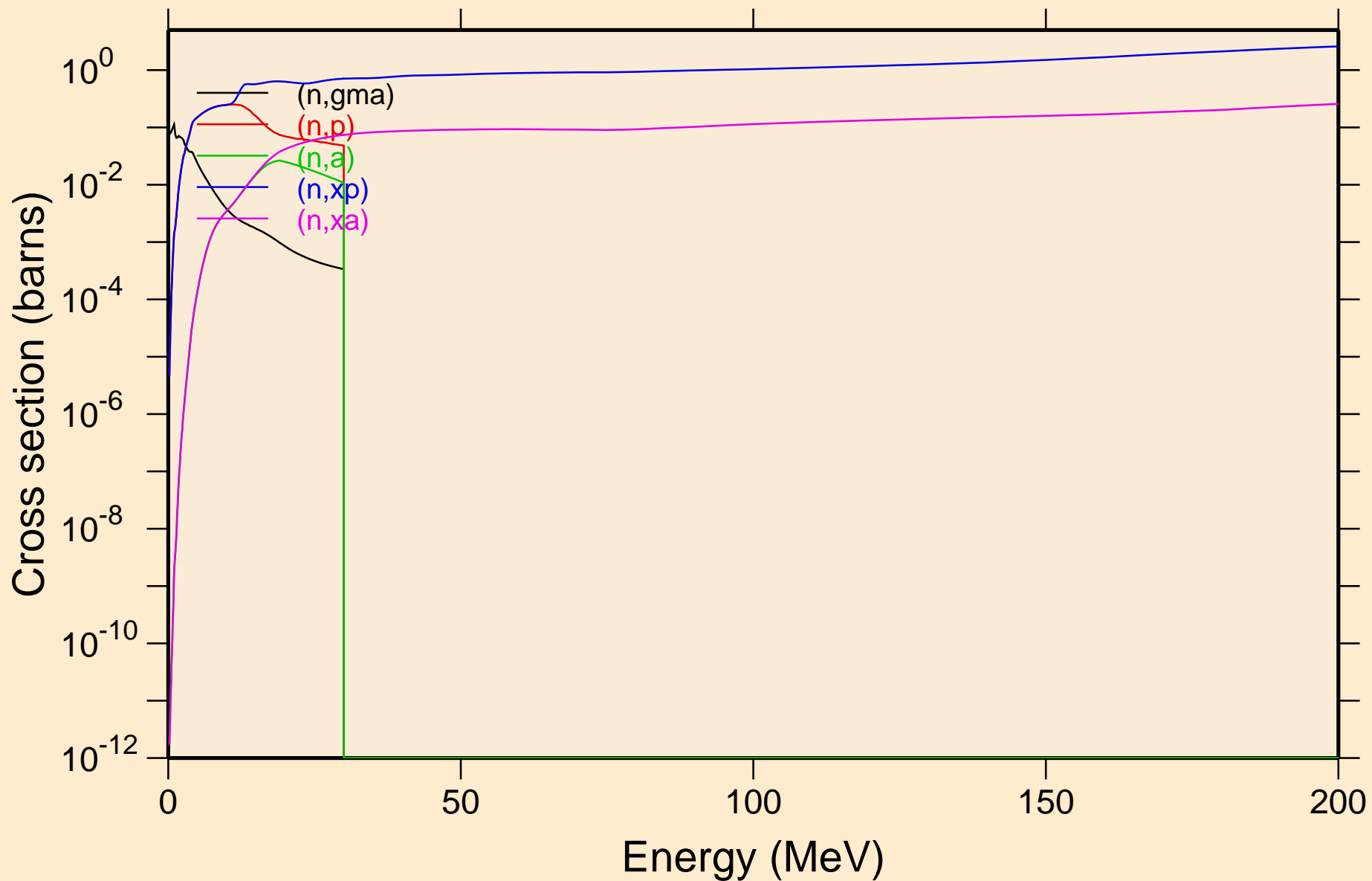
MAT=4019 ACE FILE PRODUCED AT NEA WITH NDEC
Heating



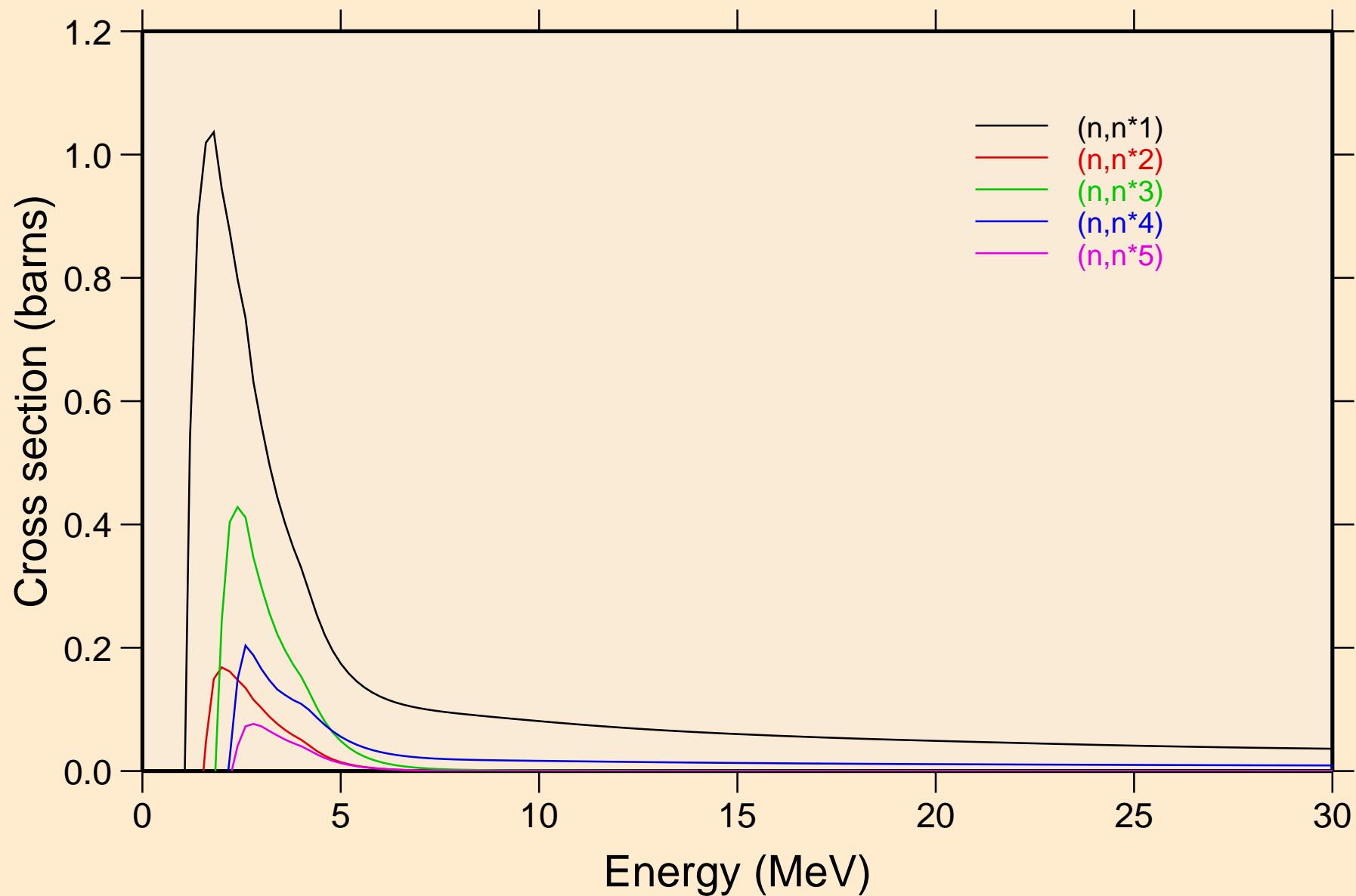
MAT=4019 ACE FILE PRODUCED AT NEA WITH NDEC
Damage



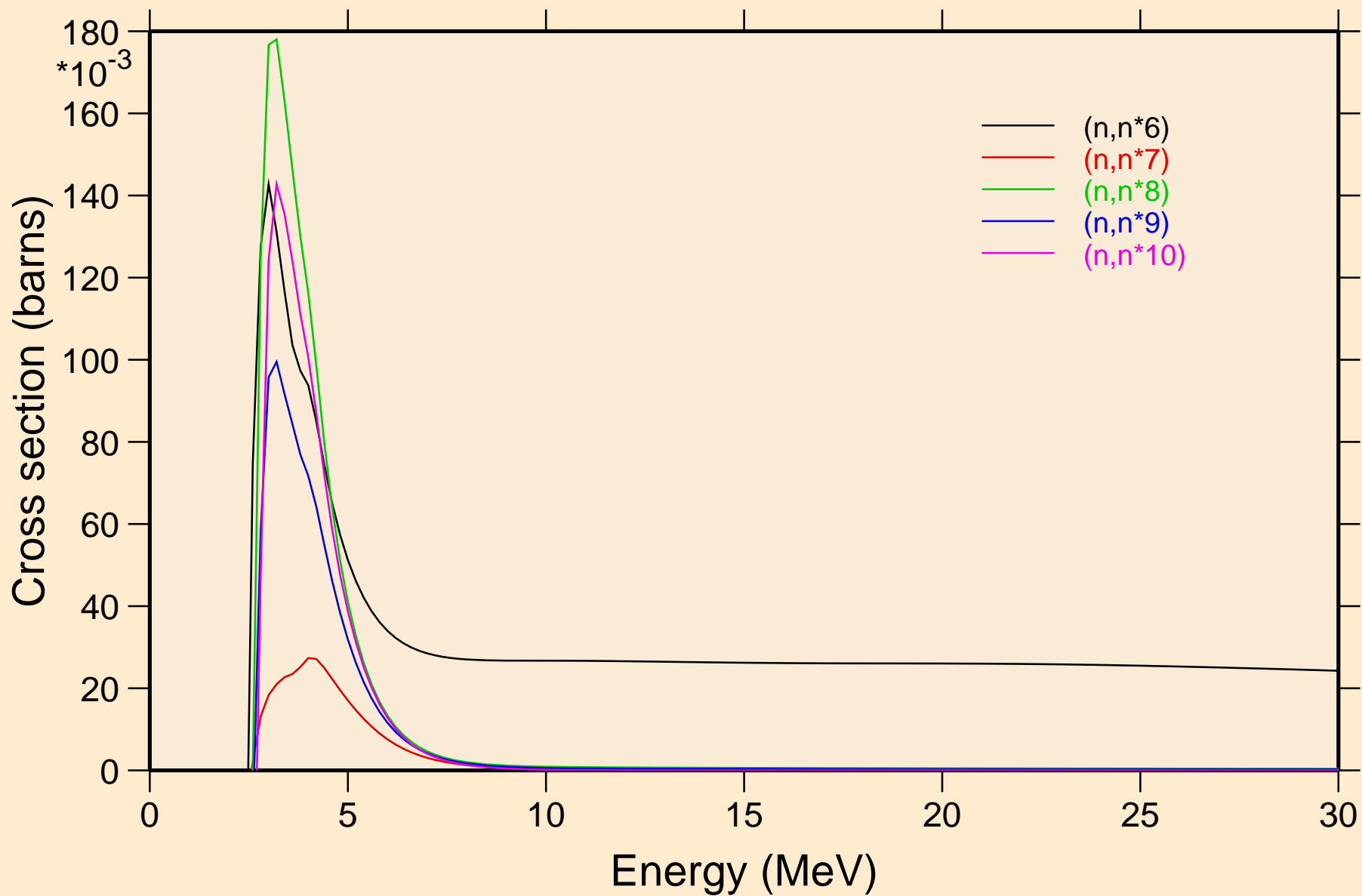
MAT=4019 ACE FILE PRODUCED AT NEA WITH NDEC
Non-threshold reactions



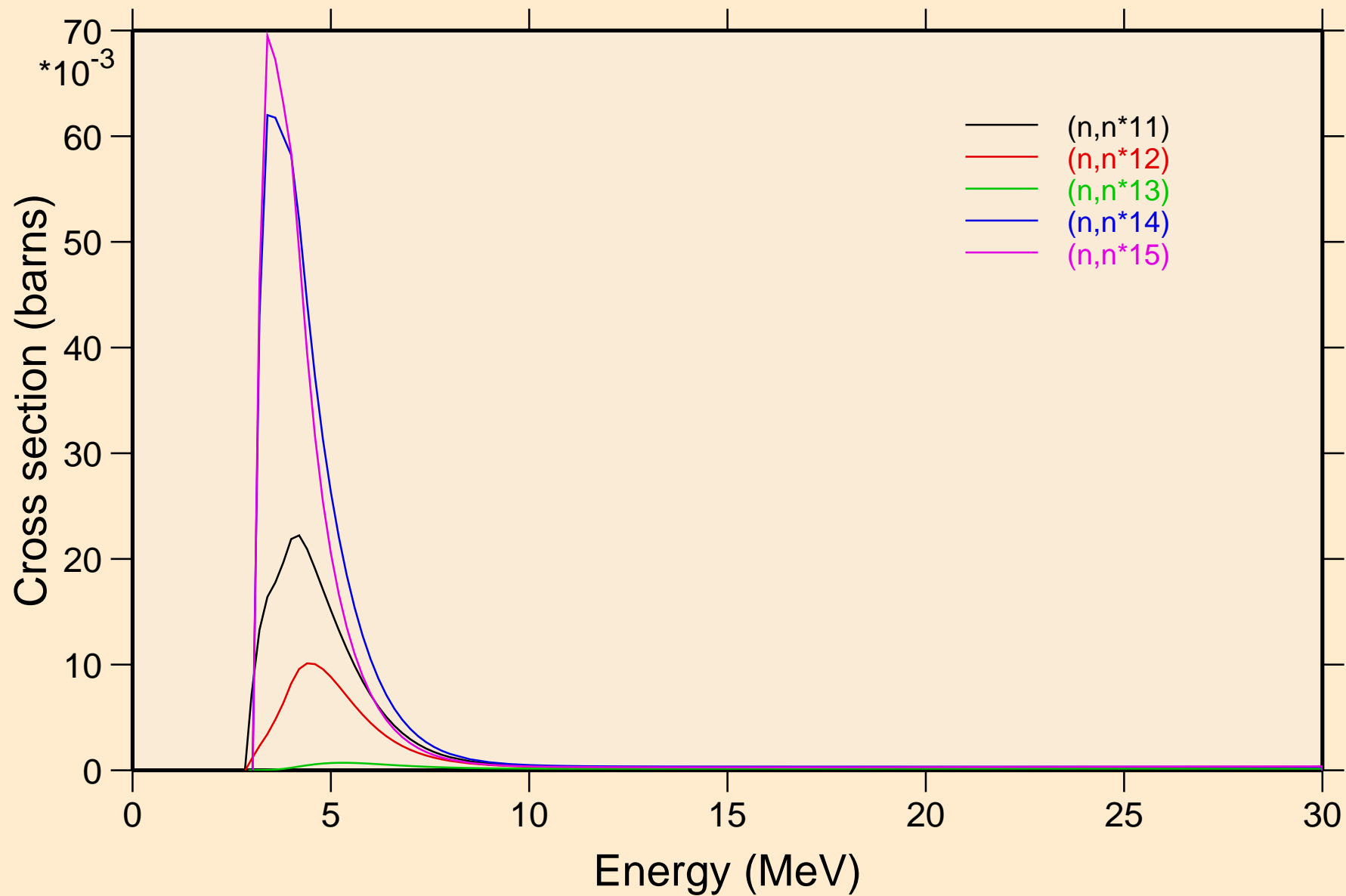
MAT=4019 ACE FILE PRODUCED AT NEA WITH NDEC
Inelastic levels



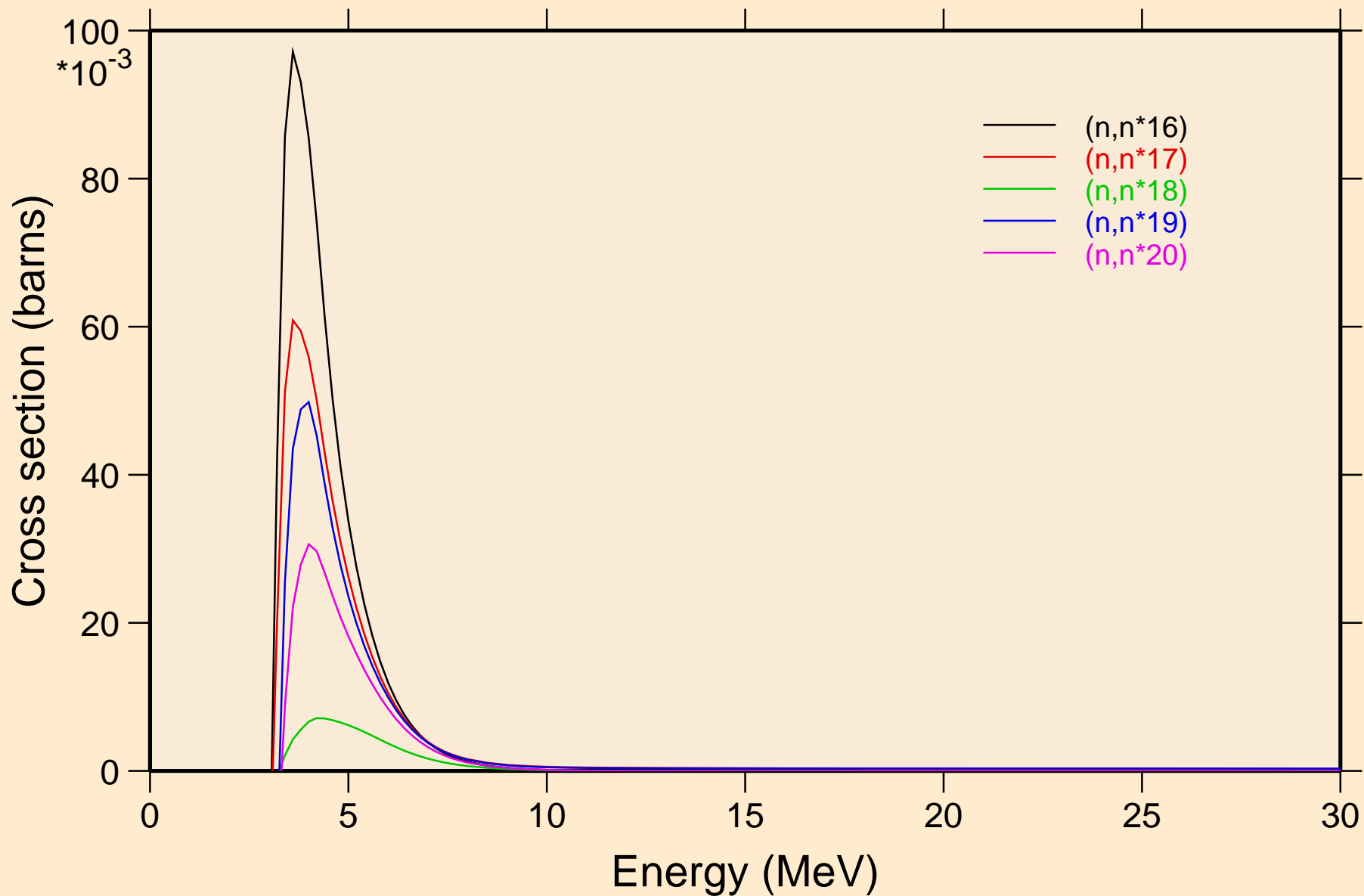
MAT=4019 ACE FILE PRODUCED AT NEA WITH NDEC
Inelastic levels



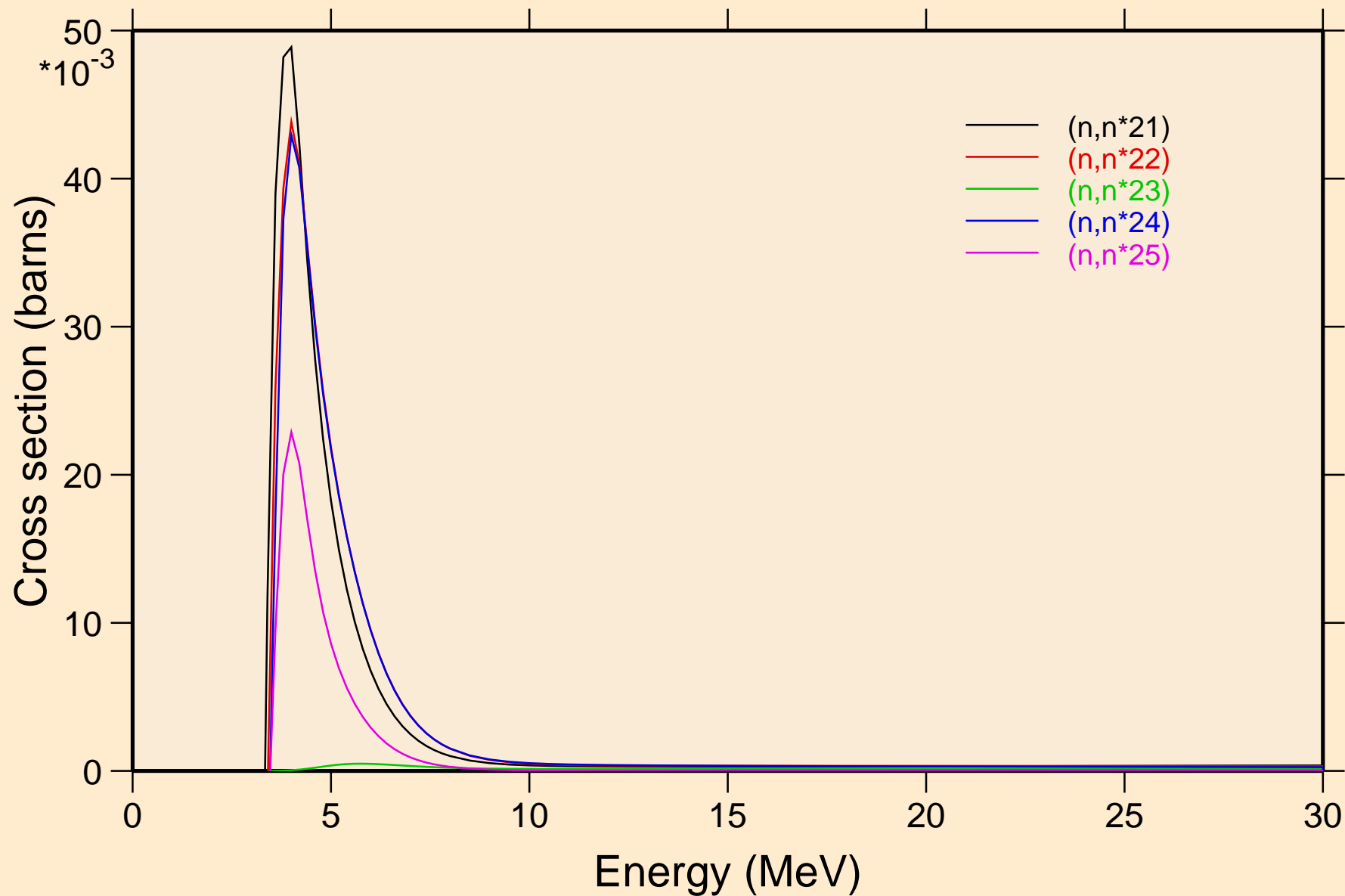
MAT=4019 ACE FILE PRODUCED AT NEA WITH NDEC
Inelastic levels



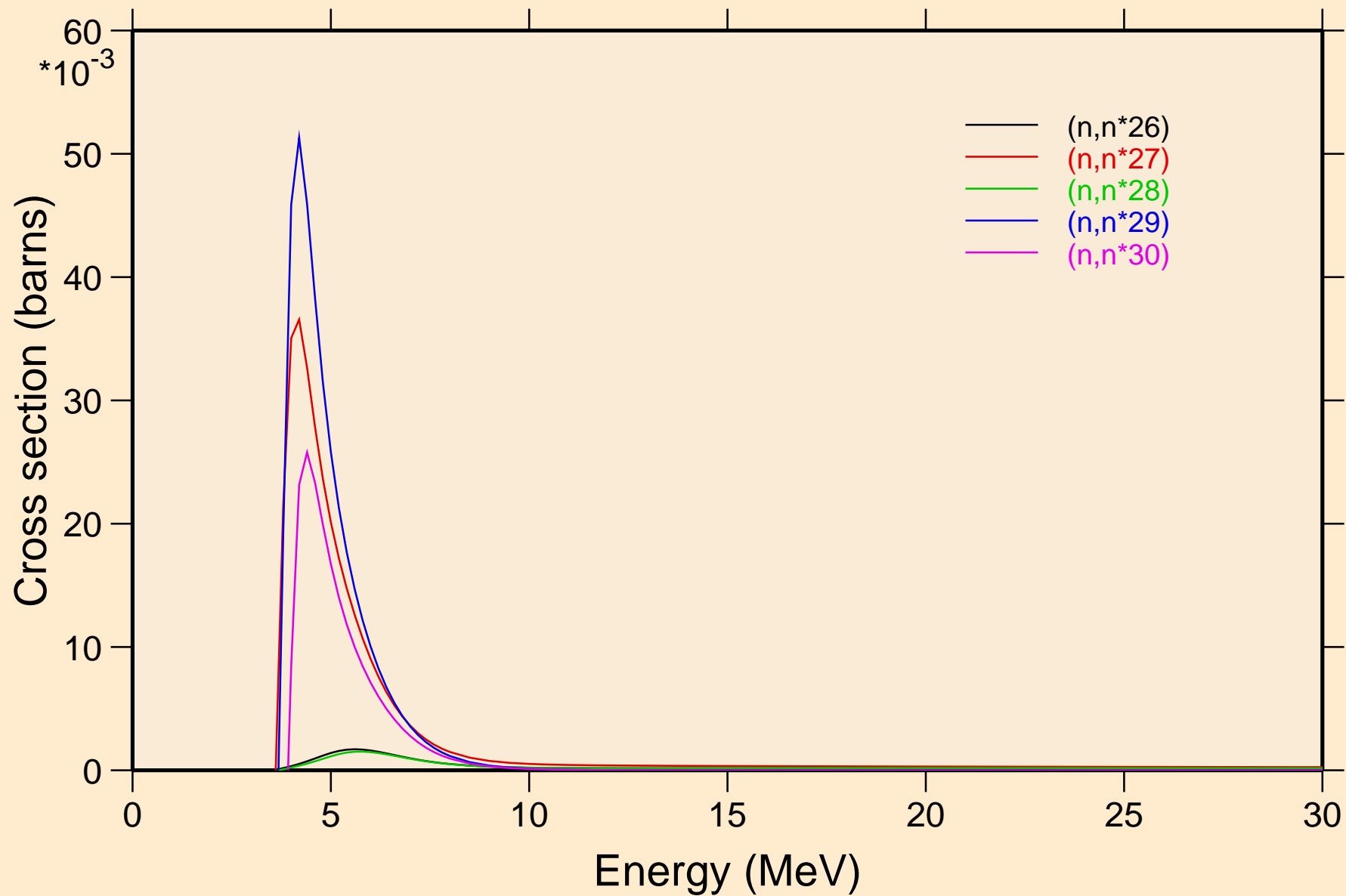
MAT=4019 ACE FILE PRODUCED AT NEA WITH NDEC
Inelastic levels



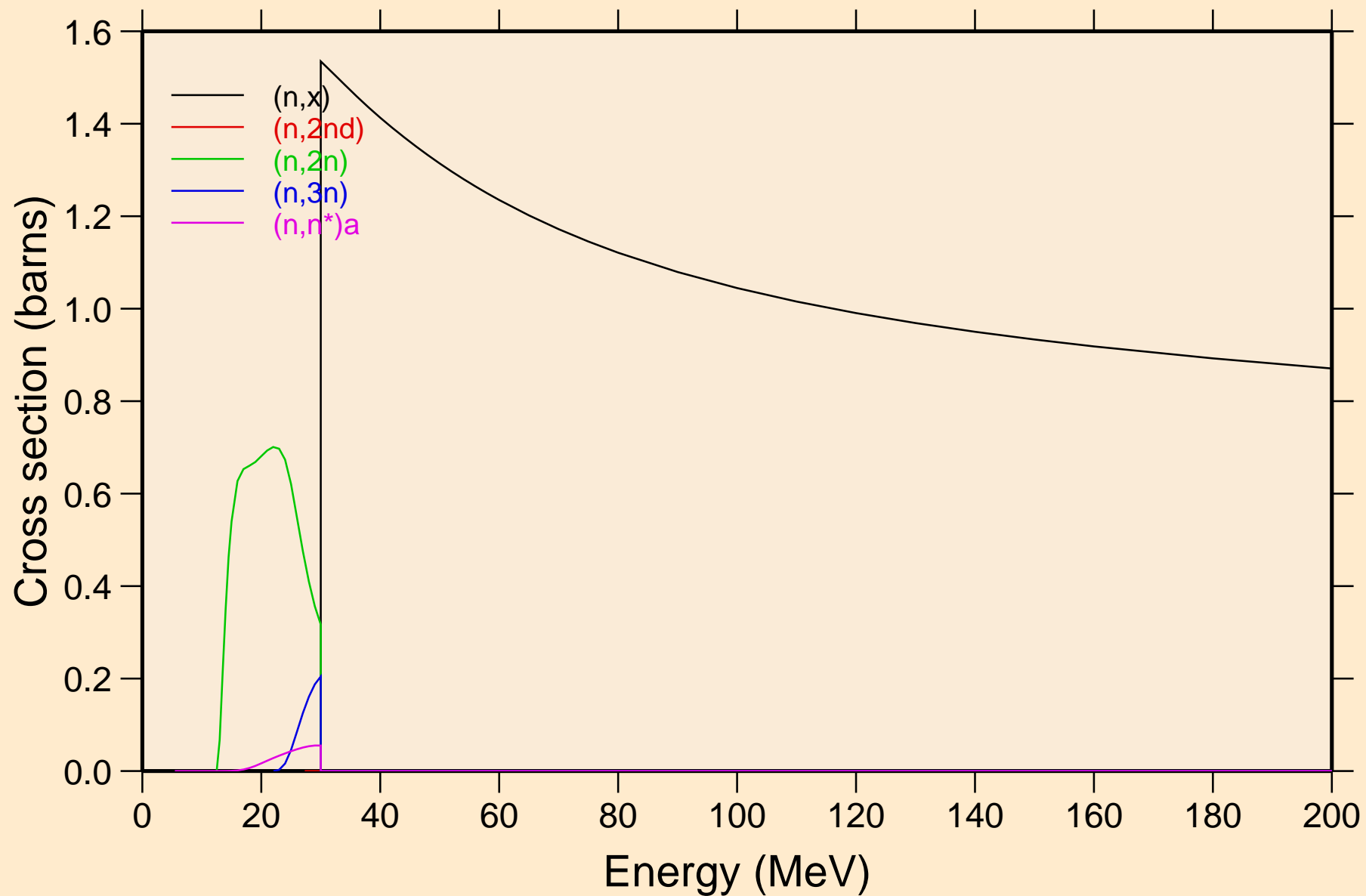
MAT=4019 ACE FILE PRODUCED AT NEA WITH NDEC
Inelastic levels



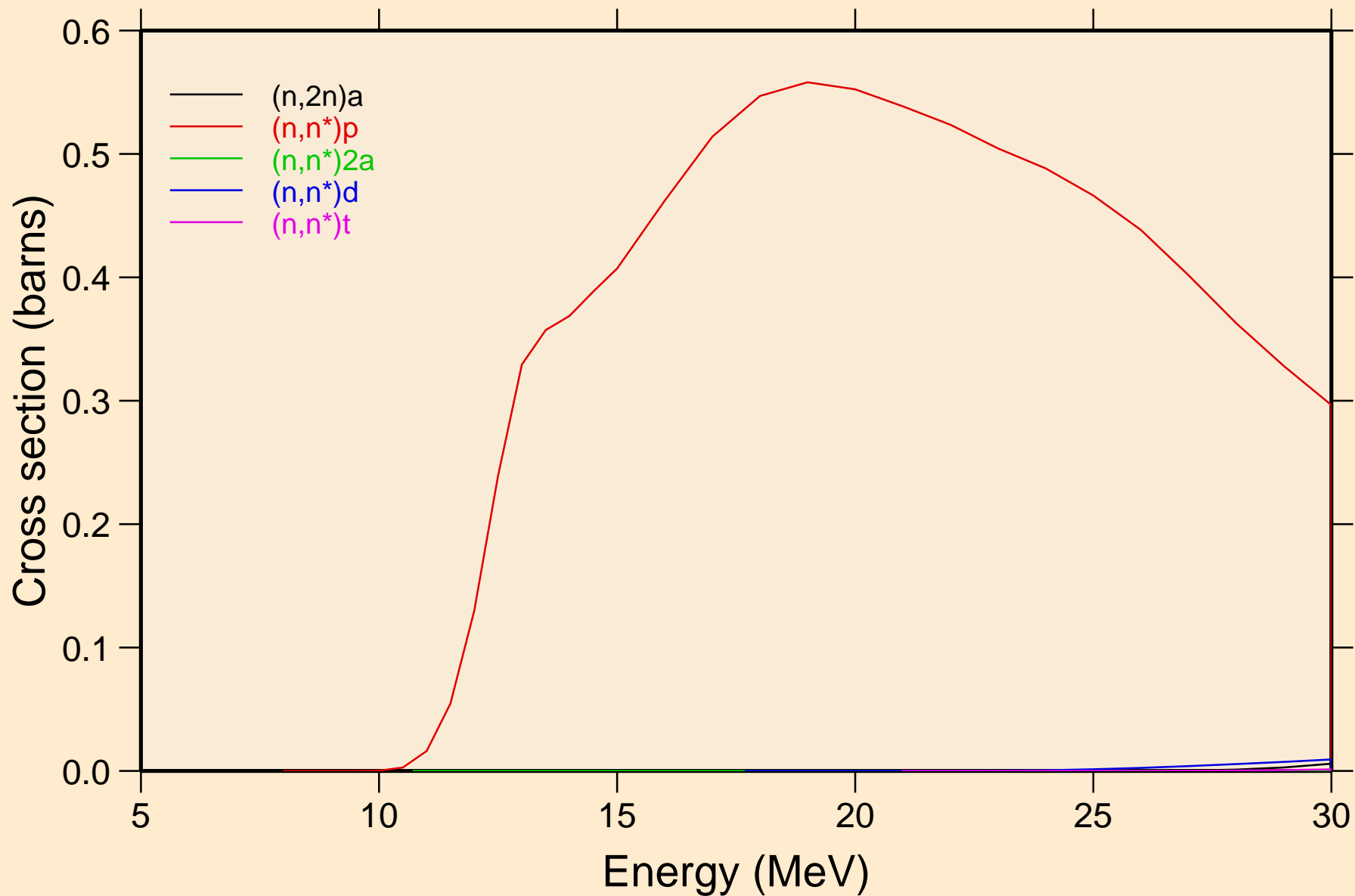
MAT=4019 ACE FILE PRODUCED AT NEA WITH NDEC
Inelastic levels



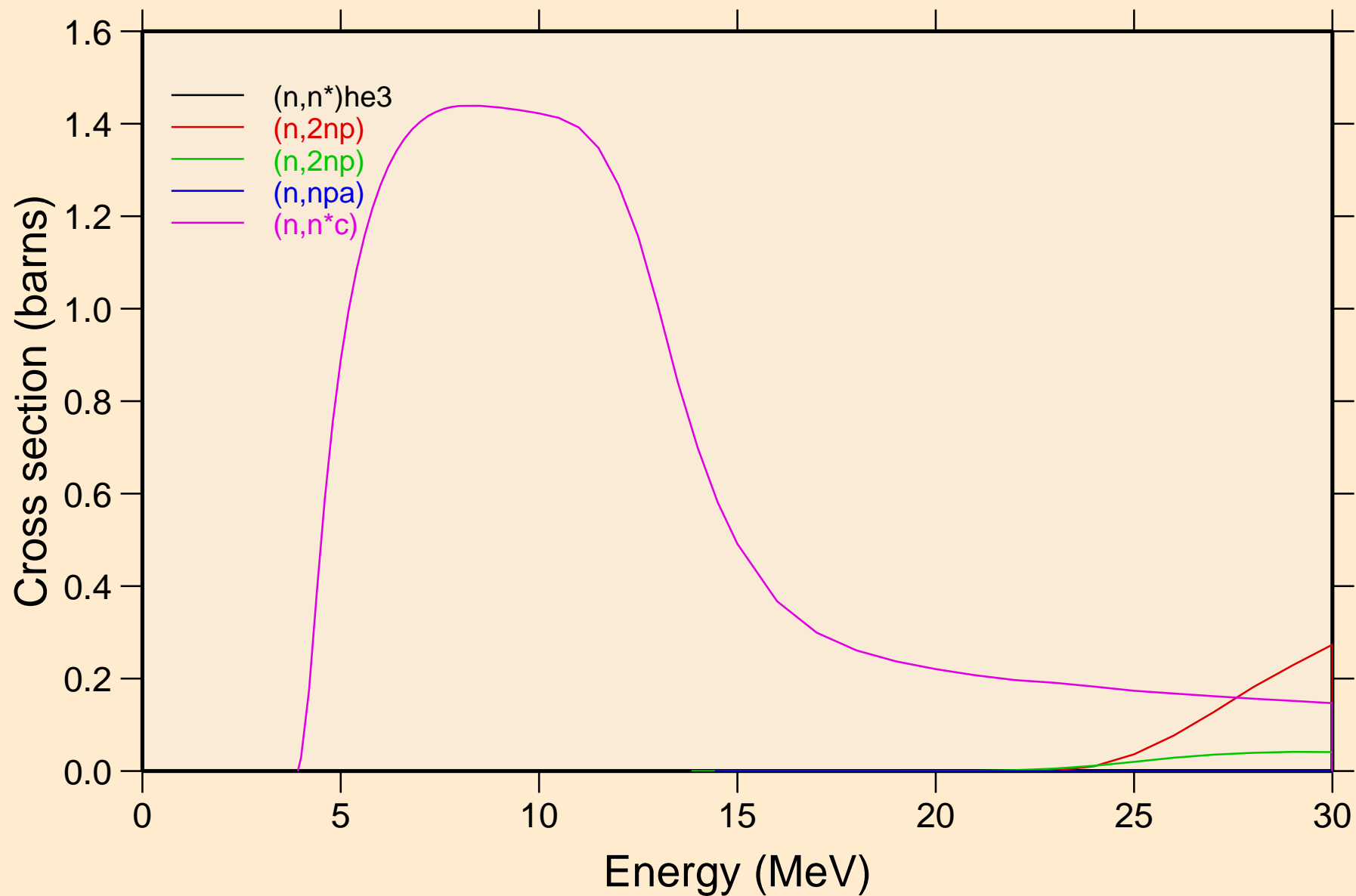
MAT=4019 ACE FILE PRODUCED AT NEA WITH NDEC
Threshold reactions



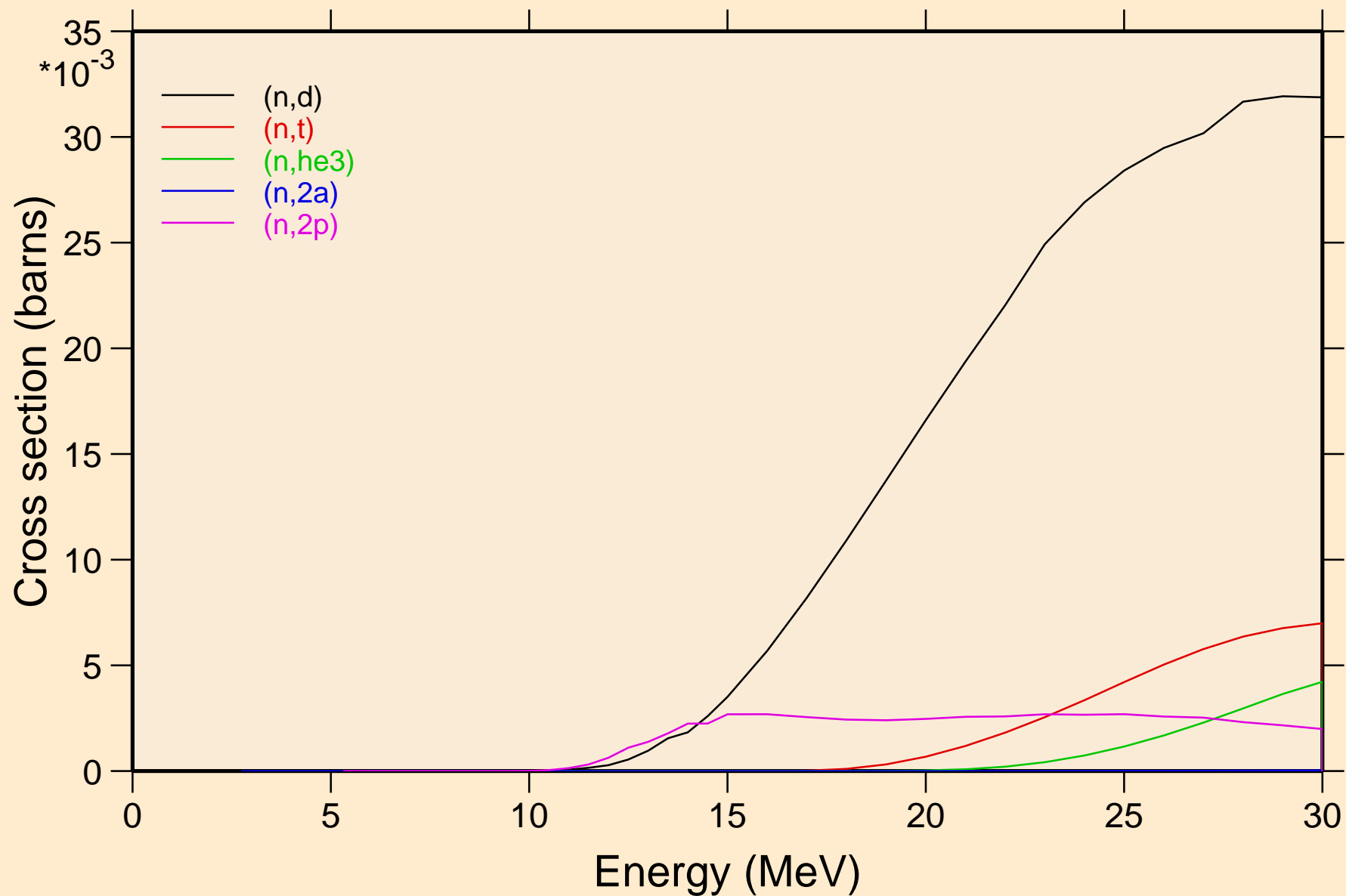
MAT=4019 ACE FILE PRODUCED AT NEA WITH NDEC
Threshold reactions



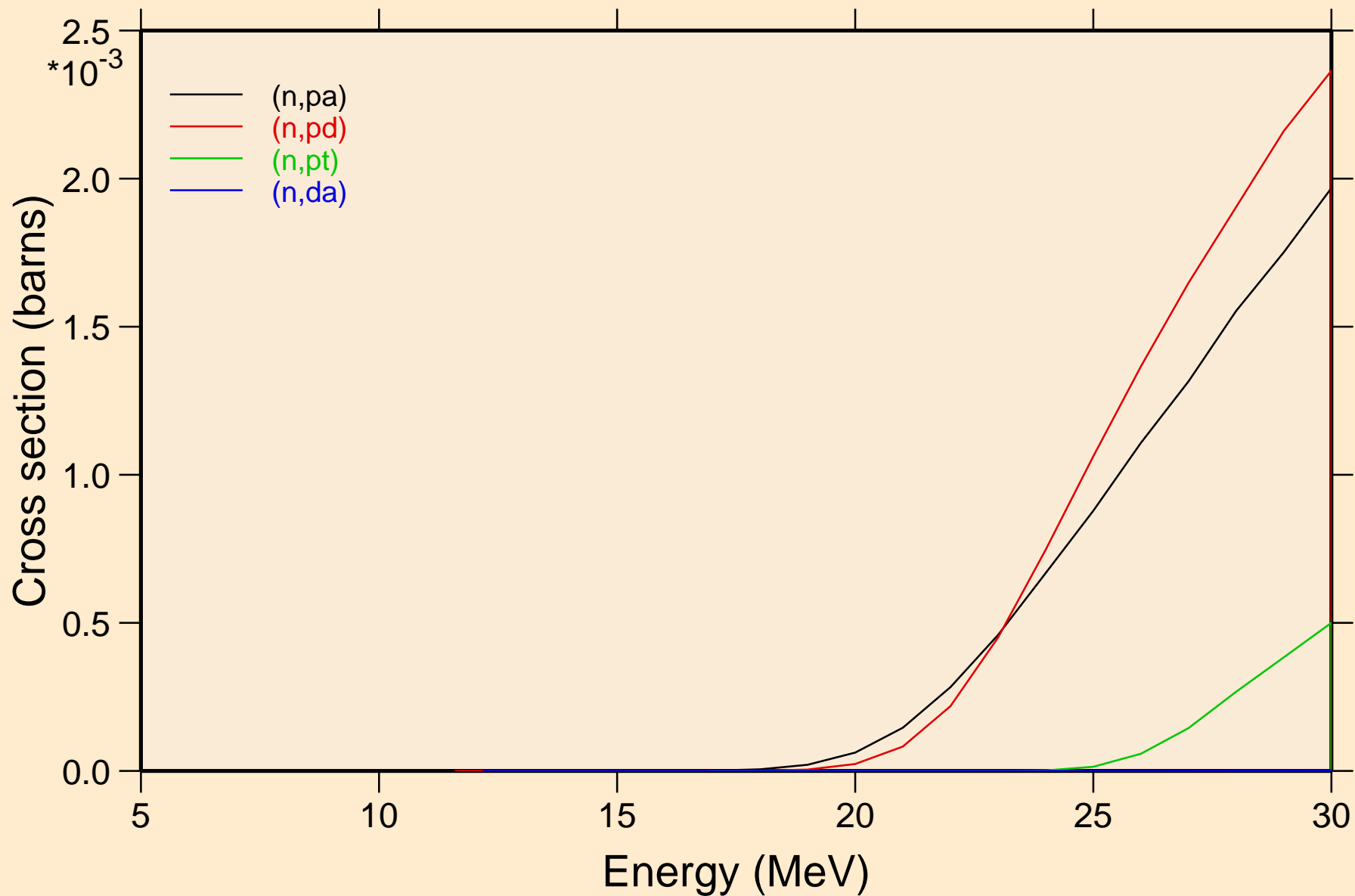
MAT=4019 ACE FILE PRODUCED AT NEA WITH NDEC
Threshold reactions



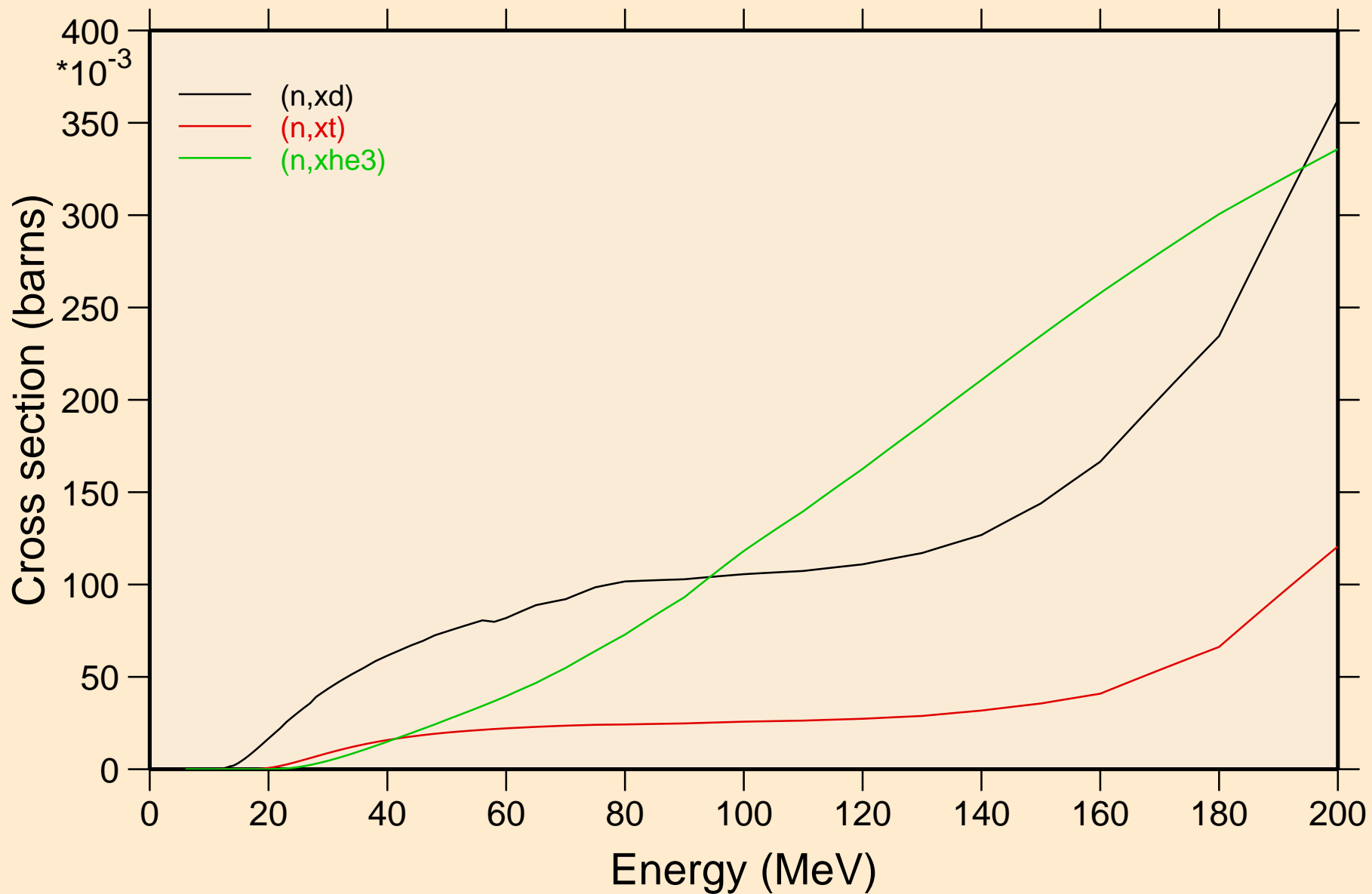
MAT=4019 ACE FILE PRODUCED AT NEA WITH NDEC
Threshold reactions



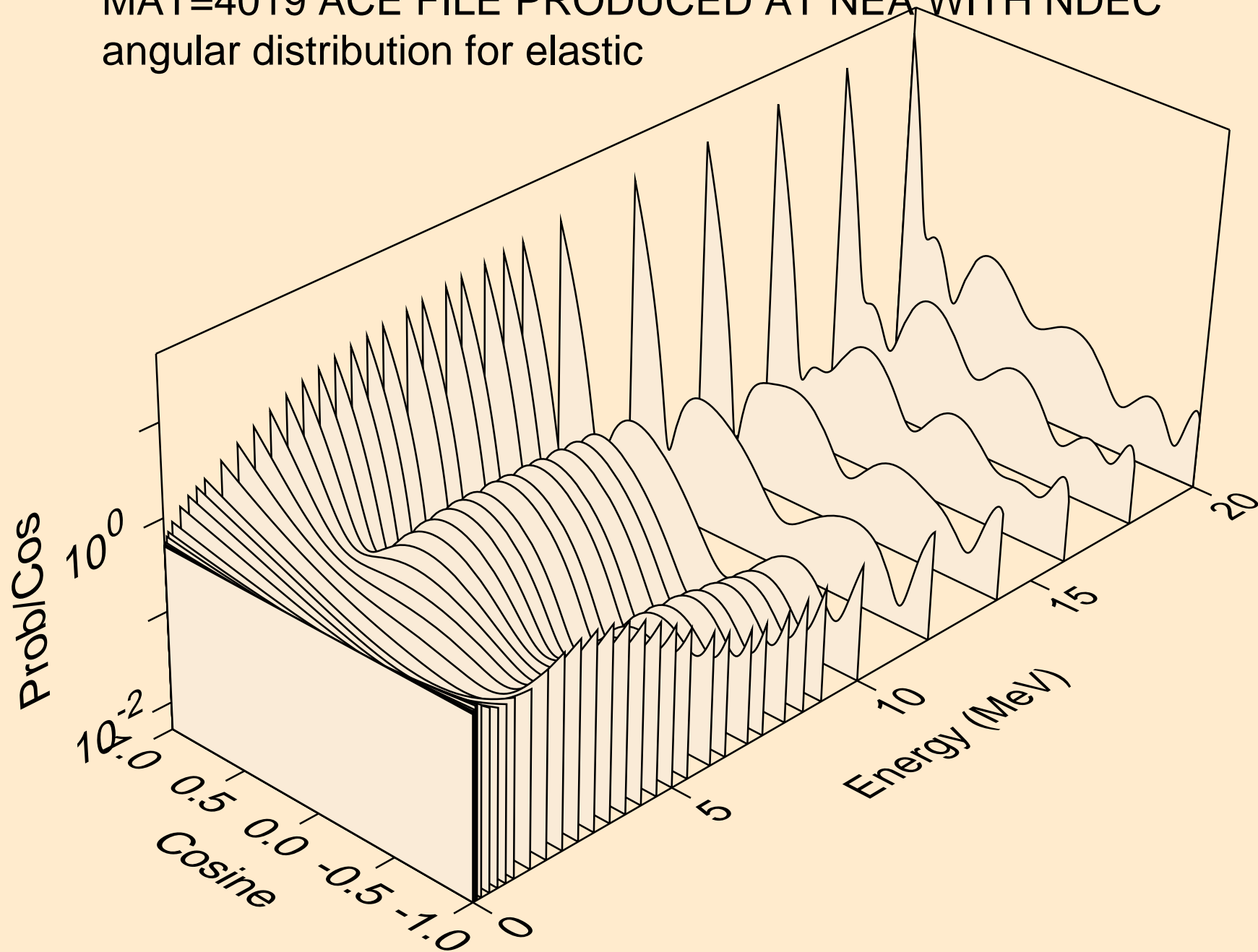
MAT=4019 ACE FILE PRODUCED AT NEA WITH NDEC
Threshold reactions



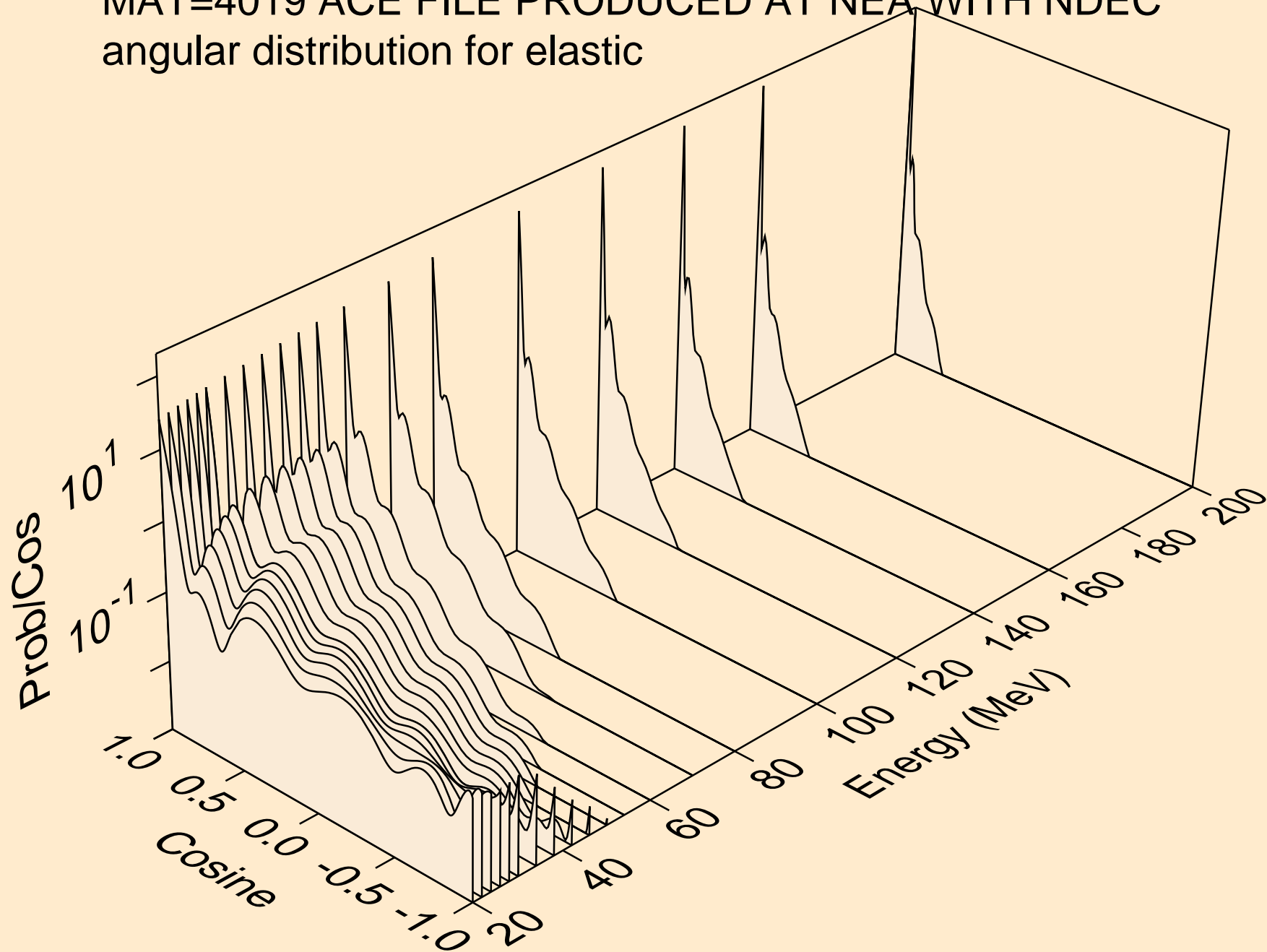
MAT=4019 ACE FILE PRODUCED AT NEA WITH NDEC
Threshold reactions



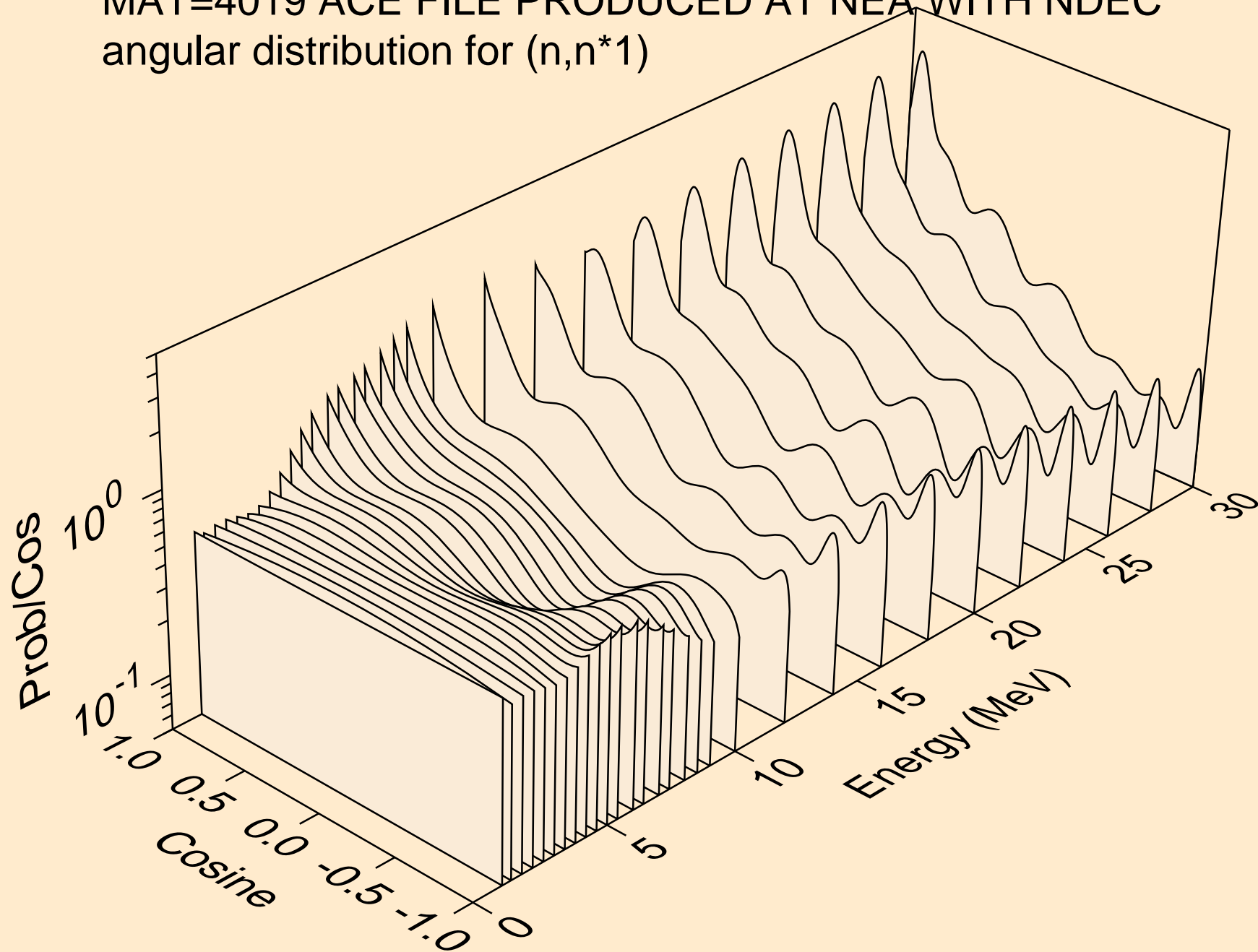
MAT=4019 ACE FILE PRODUCED AT NEA WITH NDEC
angular distribution for elastic



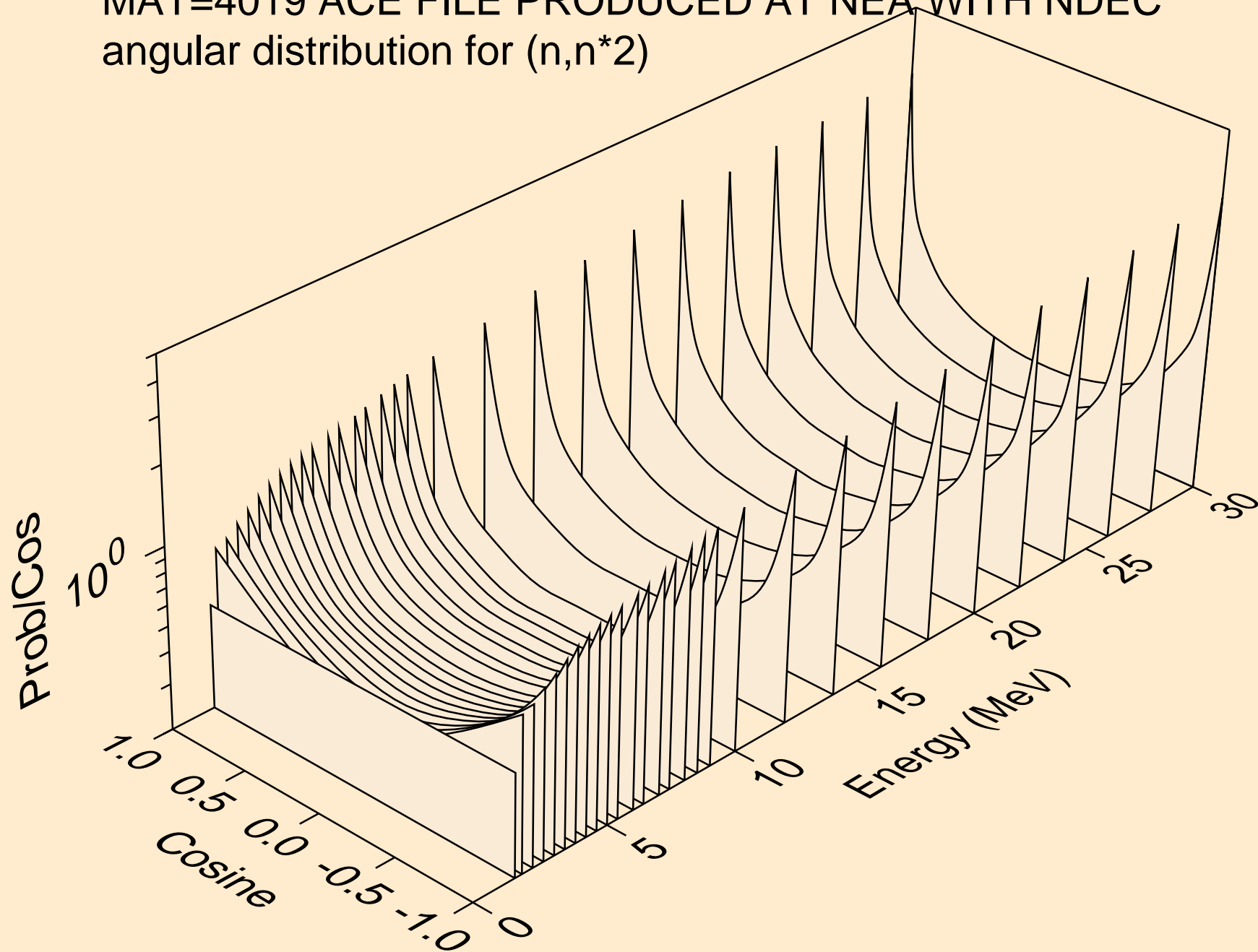
MAT=4019 ACE FILE PRODUCED AT NEA WITH NDEC
angular distribution for elastic



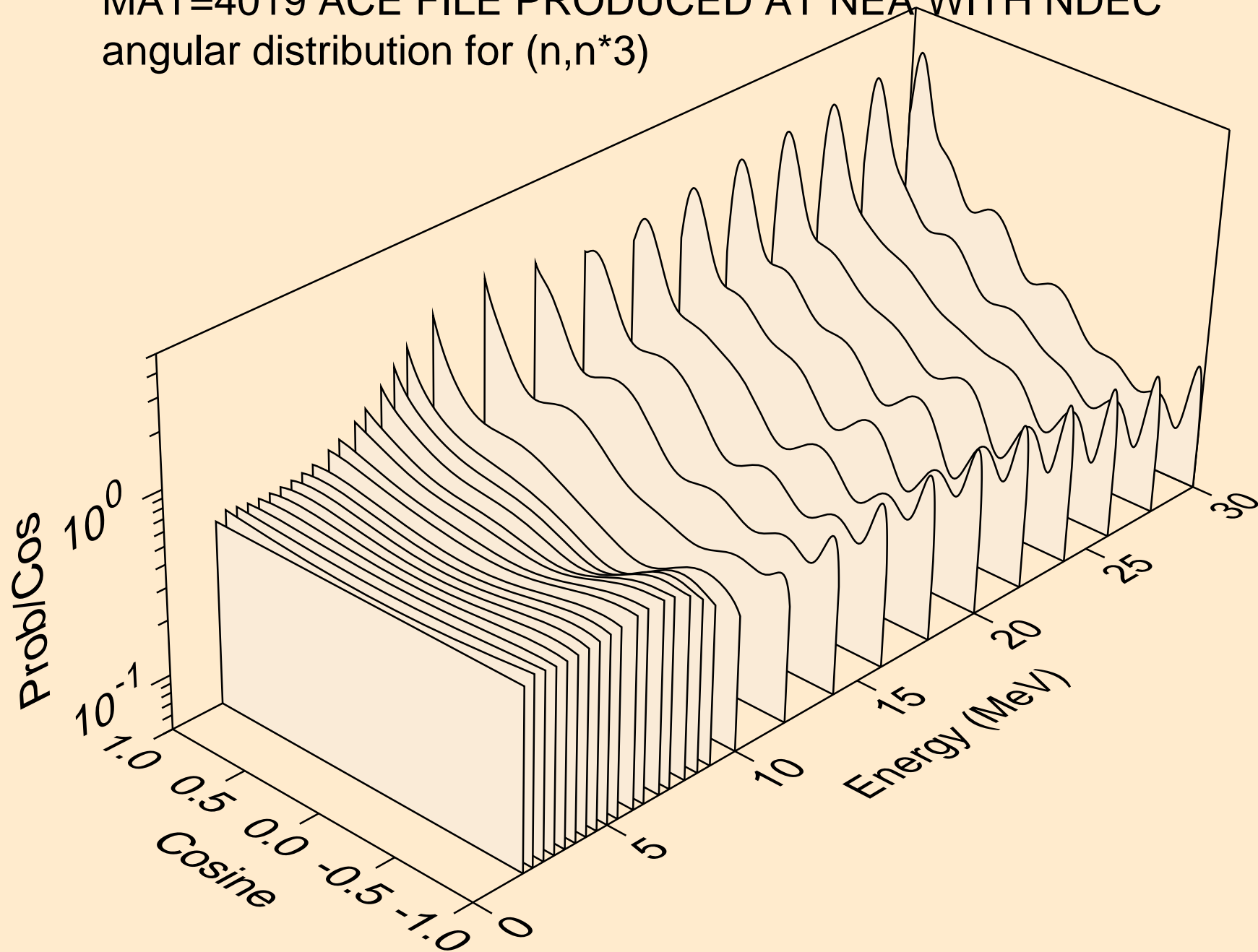
MAT=4019 ACE FILE PRODUCED AT NEA WITH NDEC
angular distribution for (n,n*1)



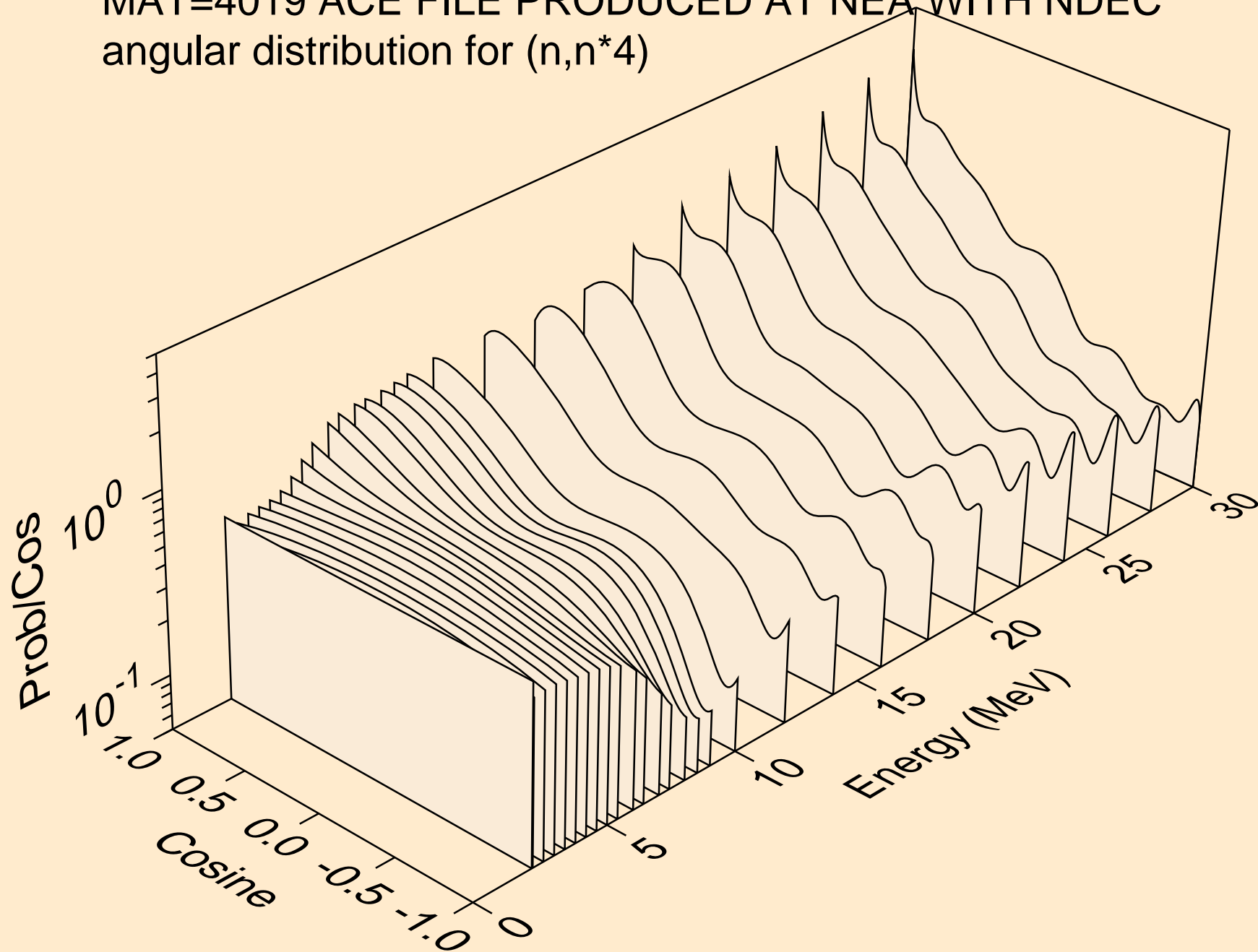
MAT=4019 ACE FILE PRODUCED AT NEA WITH NDEC
angular distribution for (n,n*2)



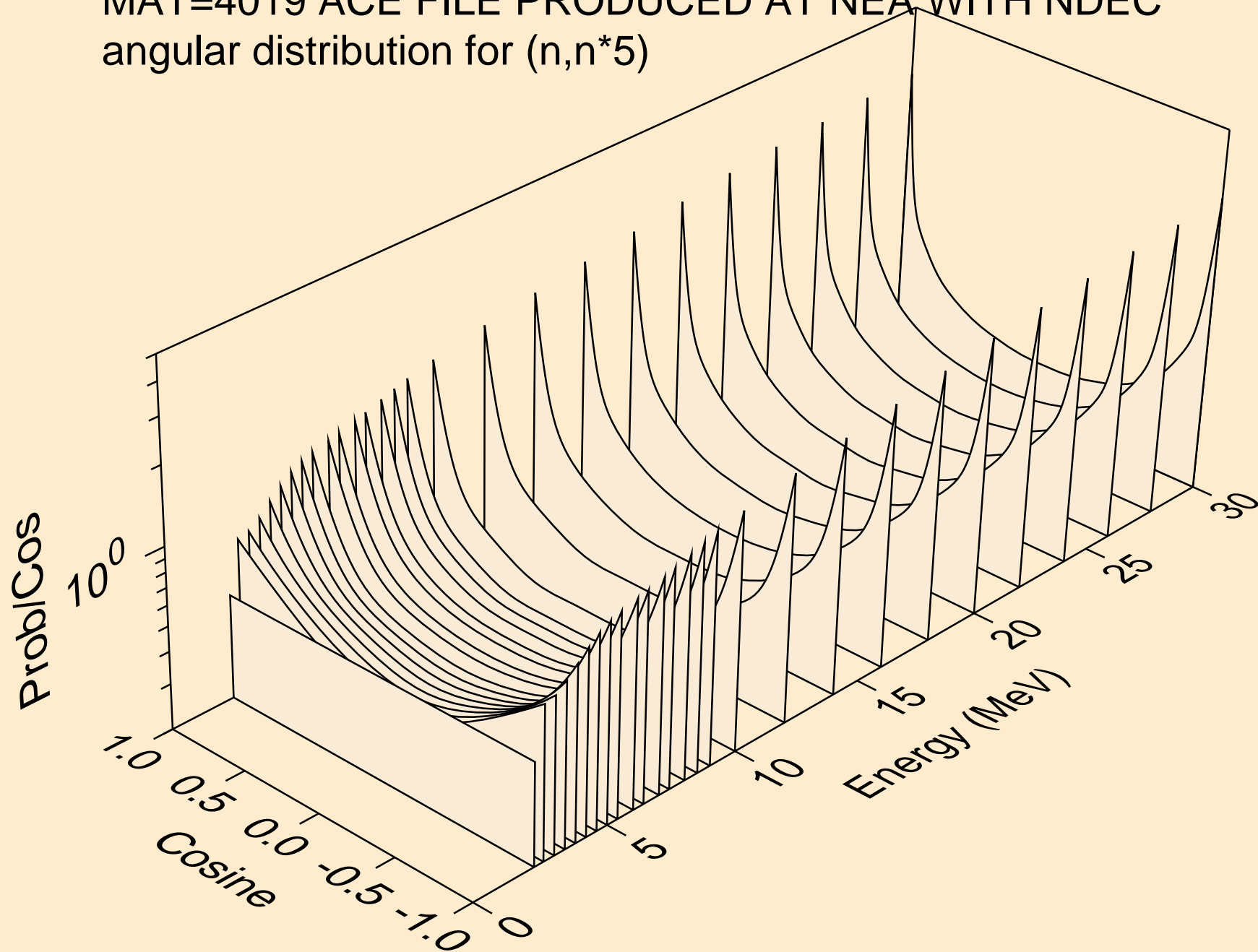
MAT=4019 ACE FILE PRODUCED AT NEA WITH NDEC
angular distribution for (n,n*3)



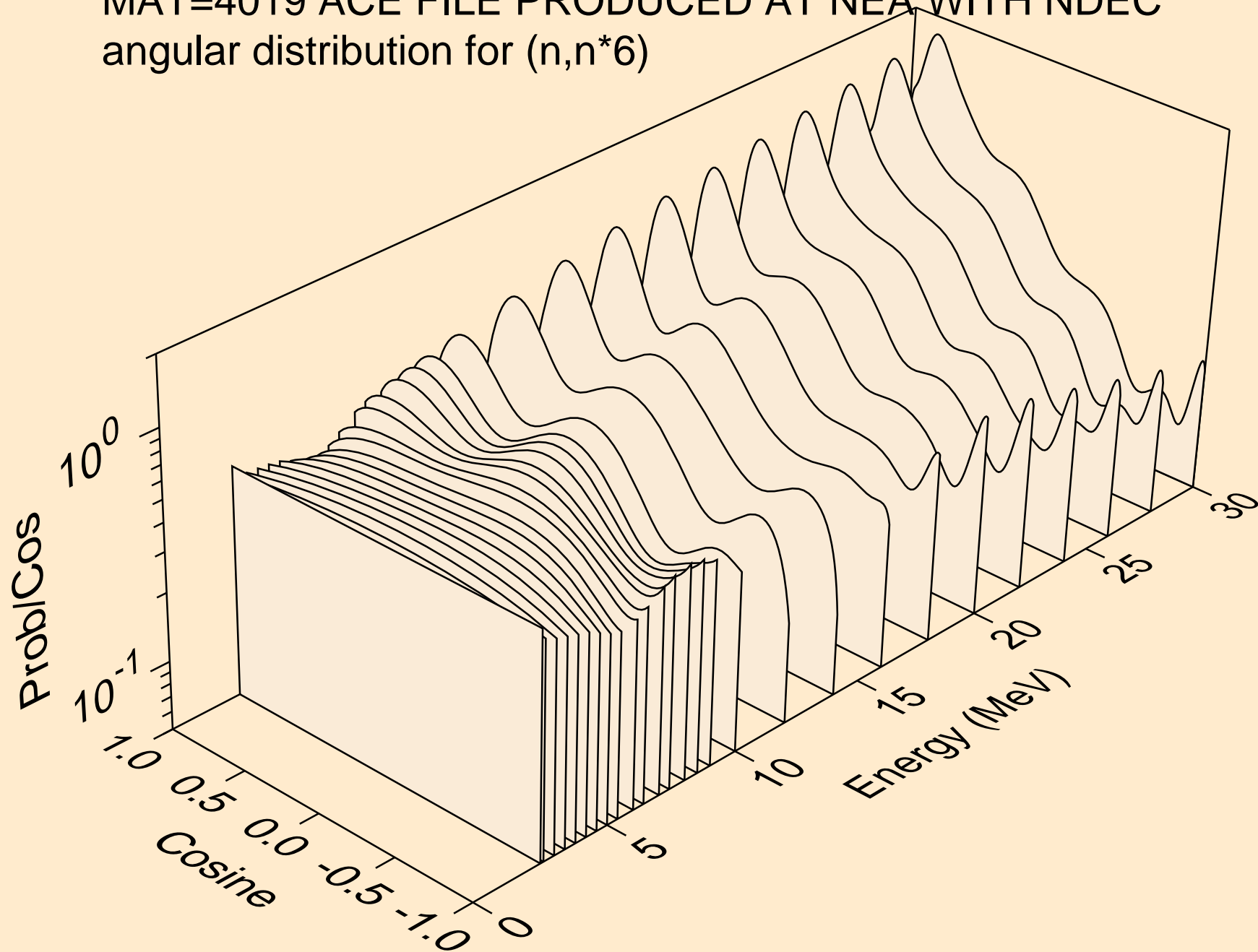
MAT=4019 ACE FILE PRODUCED AT NEA WITH NDEC
angular distribution for (n,n*4)



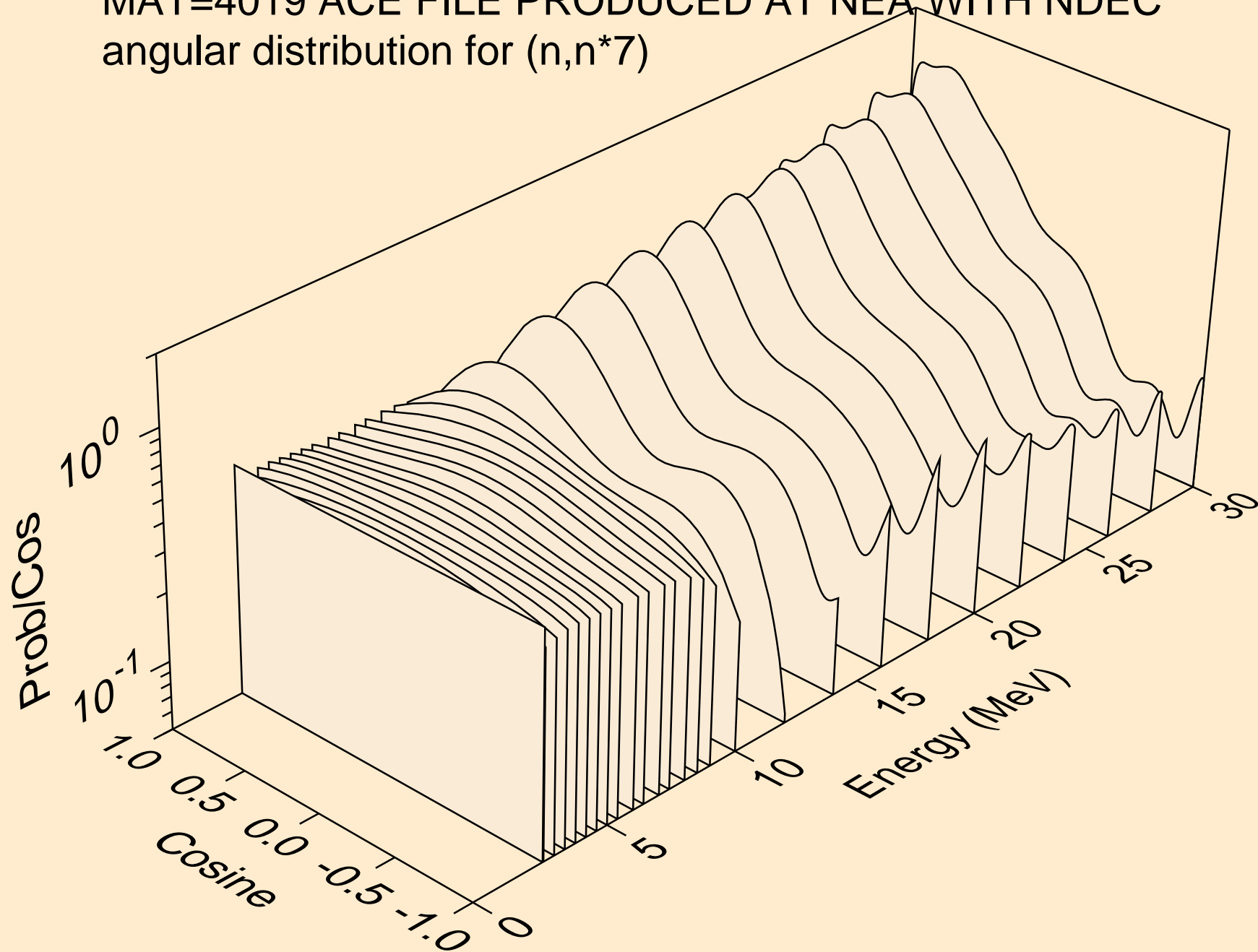
MAT=4019 ACE FILE PRODUCED AT NEA WITH NDEC
angular distribution for (n,n*5)



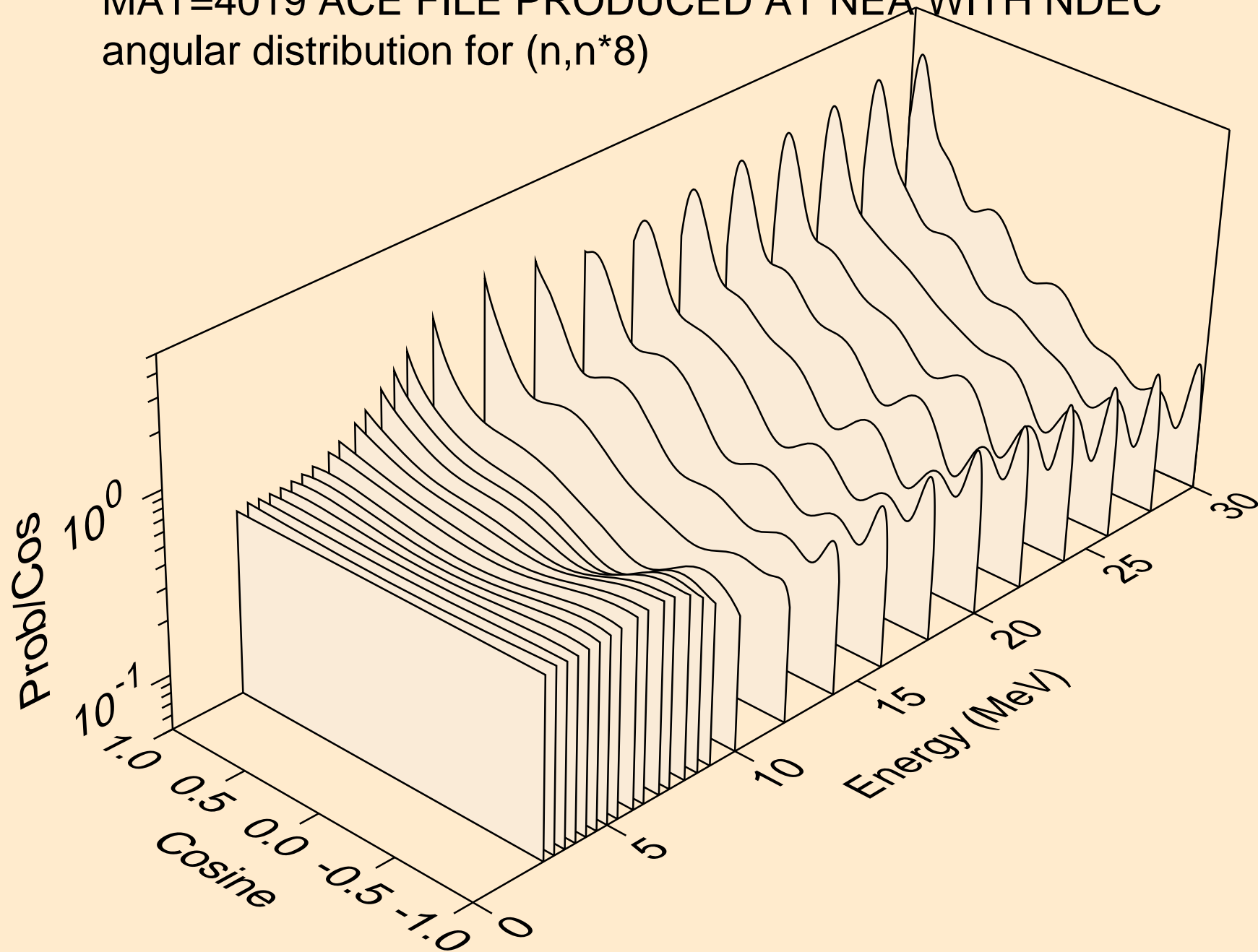
MAT=4019 ACE FILE PRODUCED AT NEA WITH NDEC
angular distribution for (n,n*6)



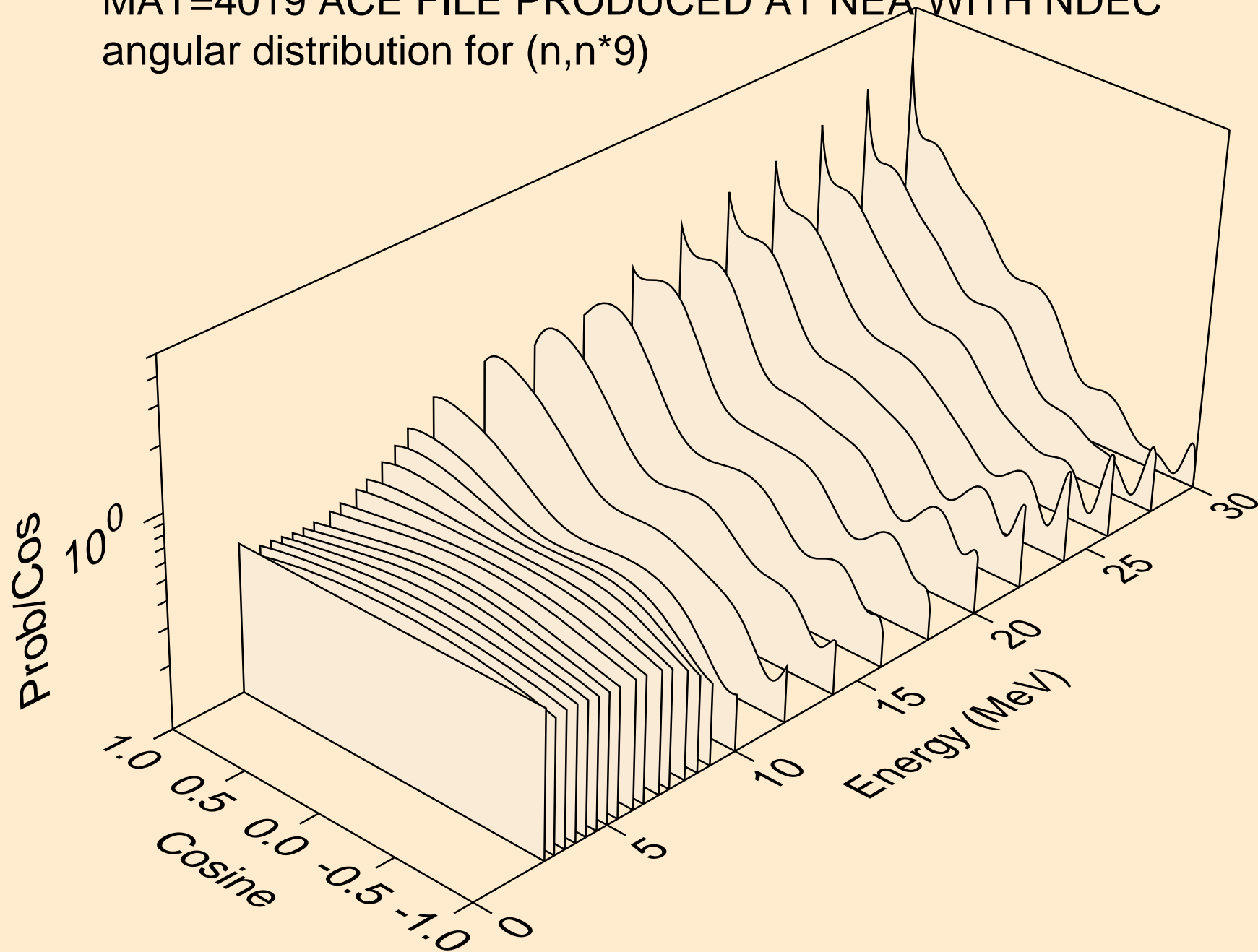
MAT=4019 ACE FILE PRODUCED AT NEA WITH NDEC
angular distribution for (n,n*7)



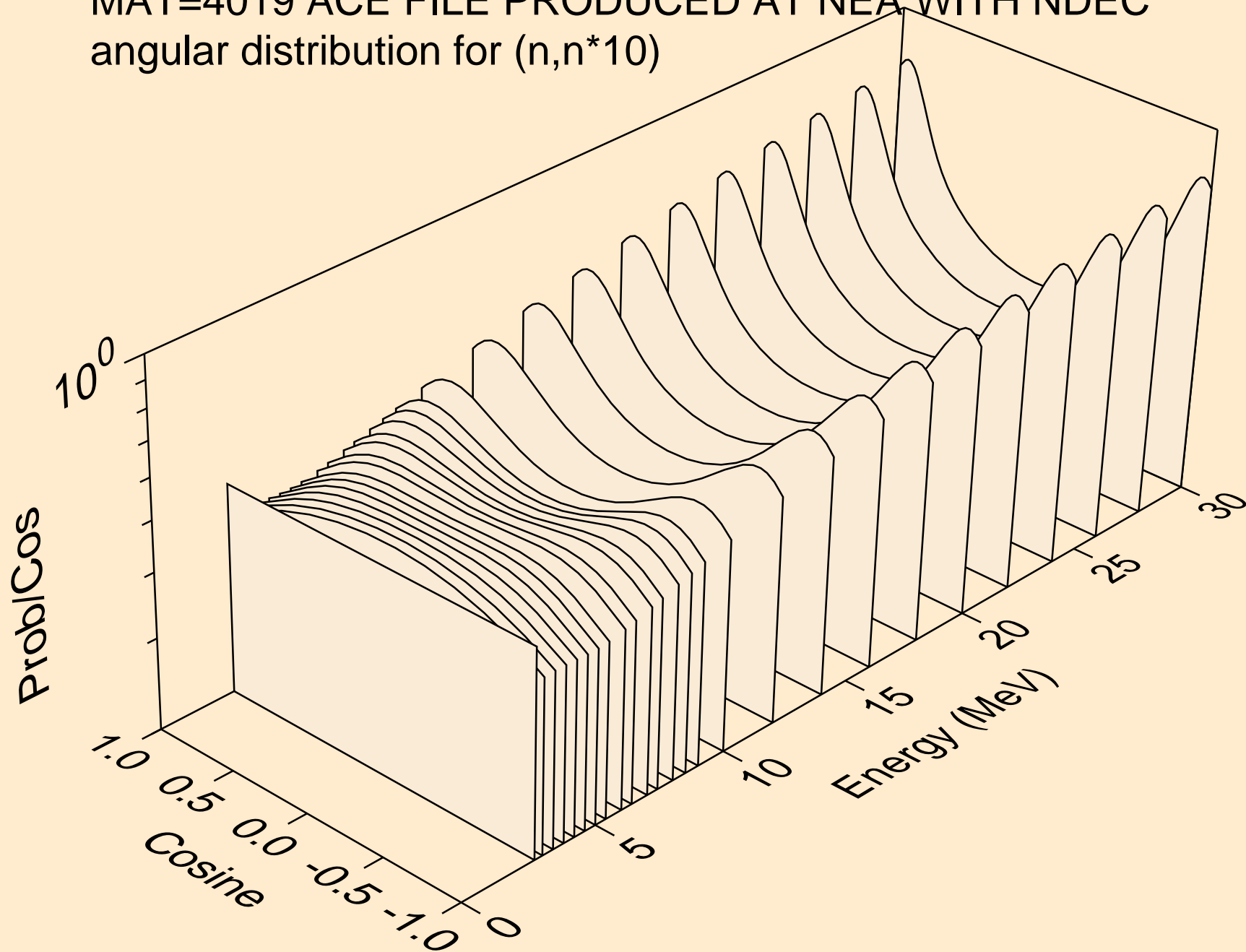
MAT=4019 ACE FILE PRODUCED AT NEA WITH NDEC
angular distribution for (n,n*8)



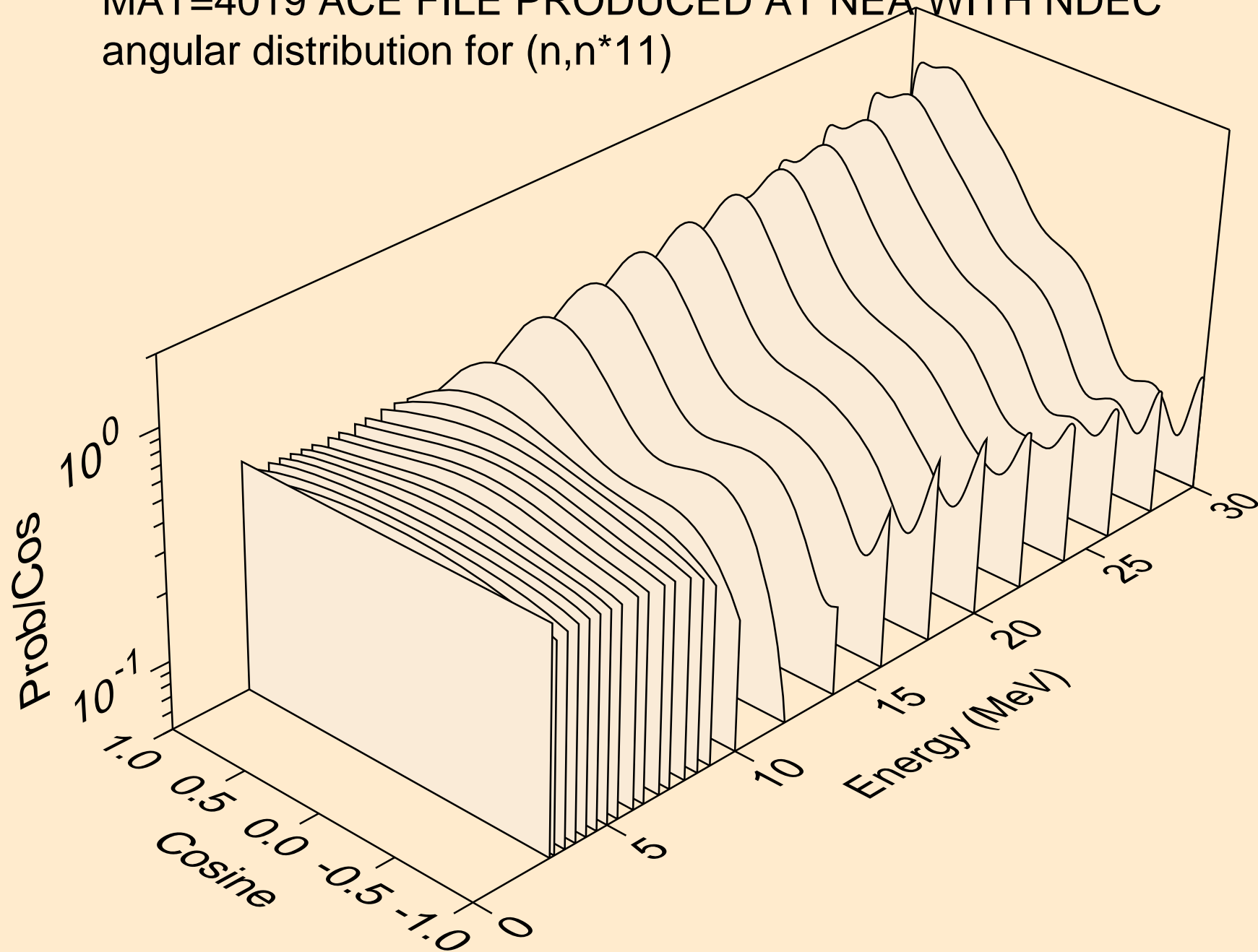
MAT=4019 ACE FILE PRODUCED AT NEA WITH NDEC
angular distribution for (n,n*9)



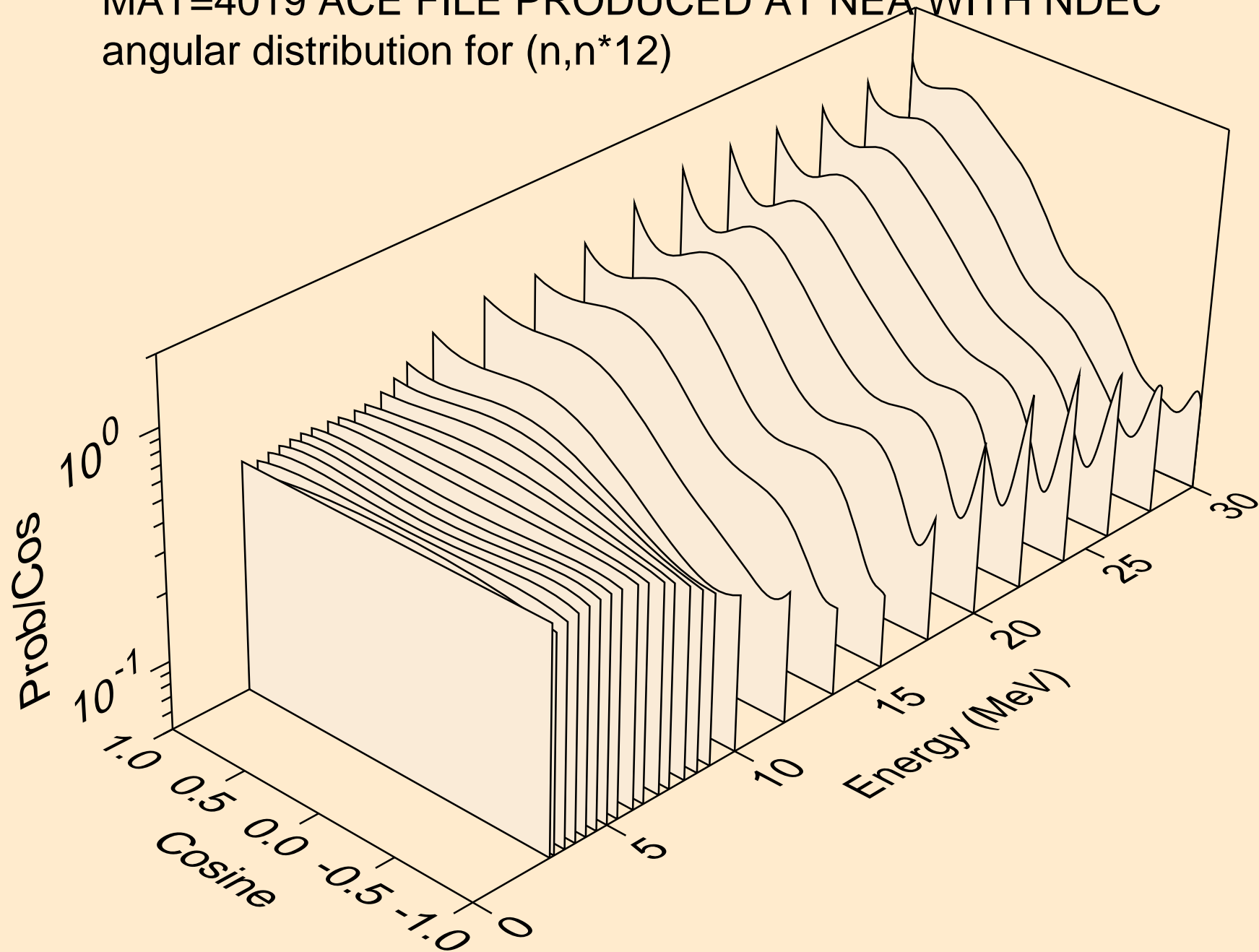
MAT=4019 ACE FILE PRODUCED AT NEA WITH NDEC
angular distribution for (n,n*10)



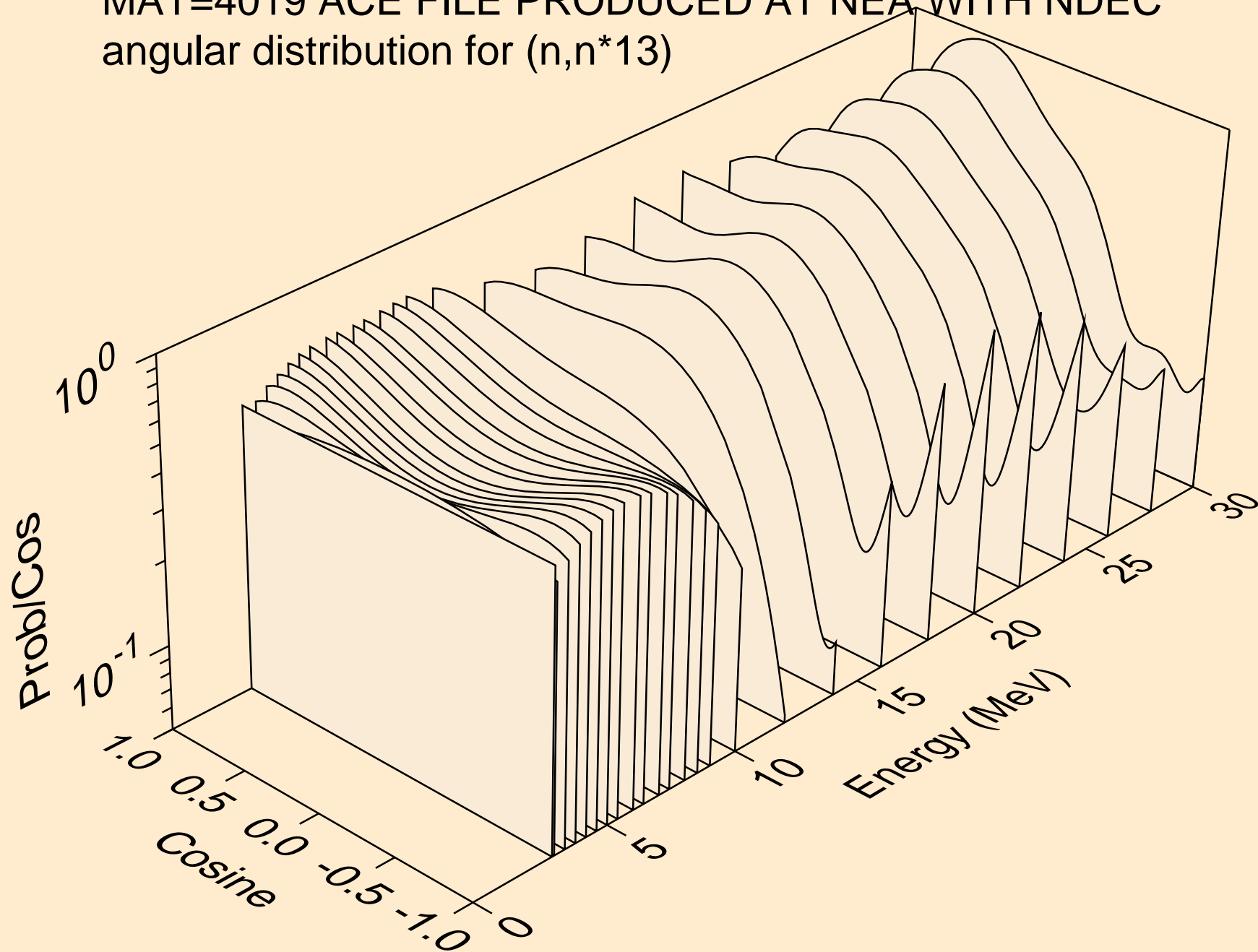
MAT=4019 ACE FILE PRODUCED AT NEA WITH NDEC
angular distribution for (n,n*11)



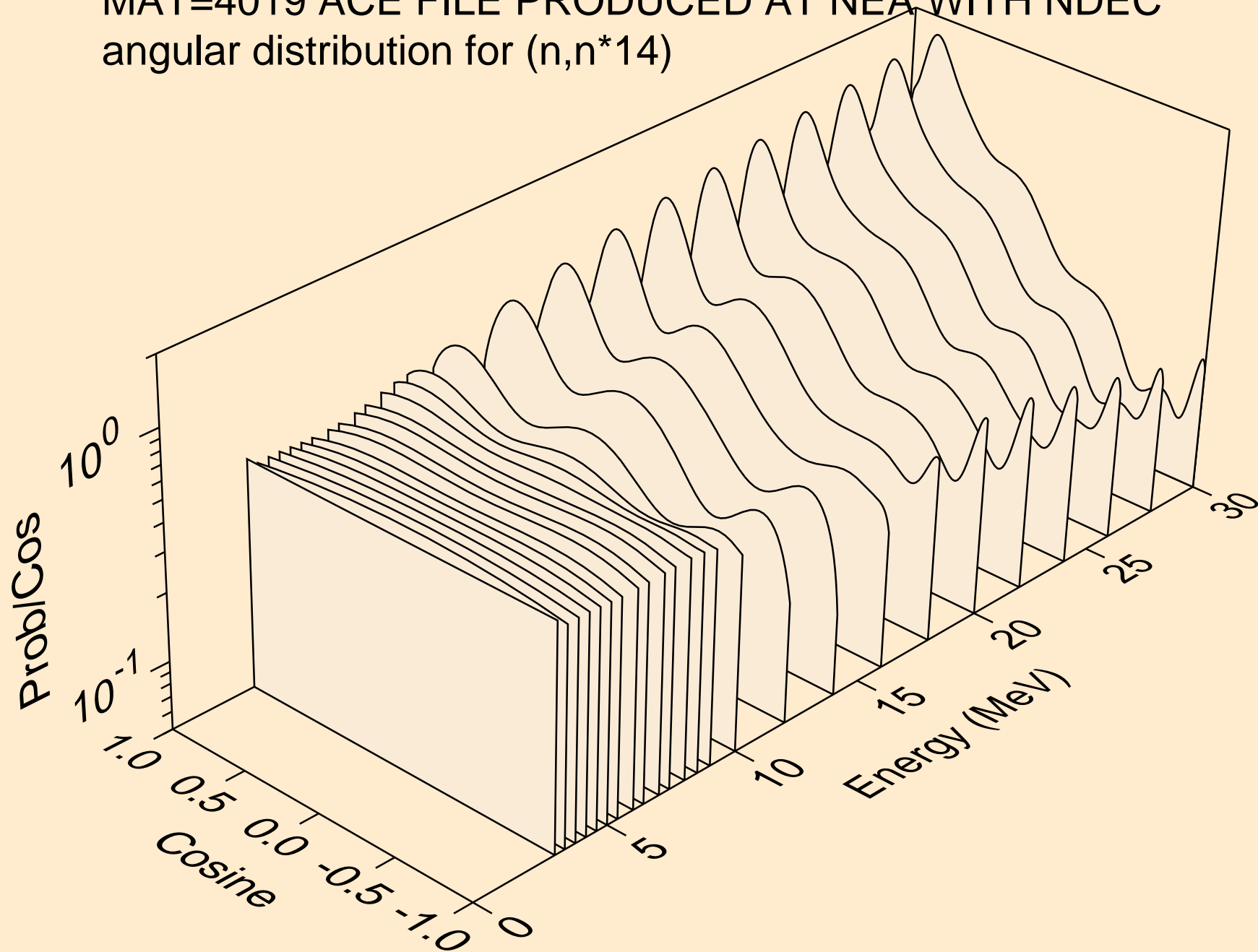
MAT=4019 ACE FILE PRODUCED AT NEA WITH NDEC
angular distribution for (n,n*12)



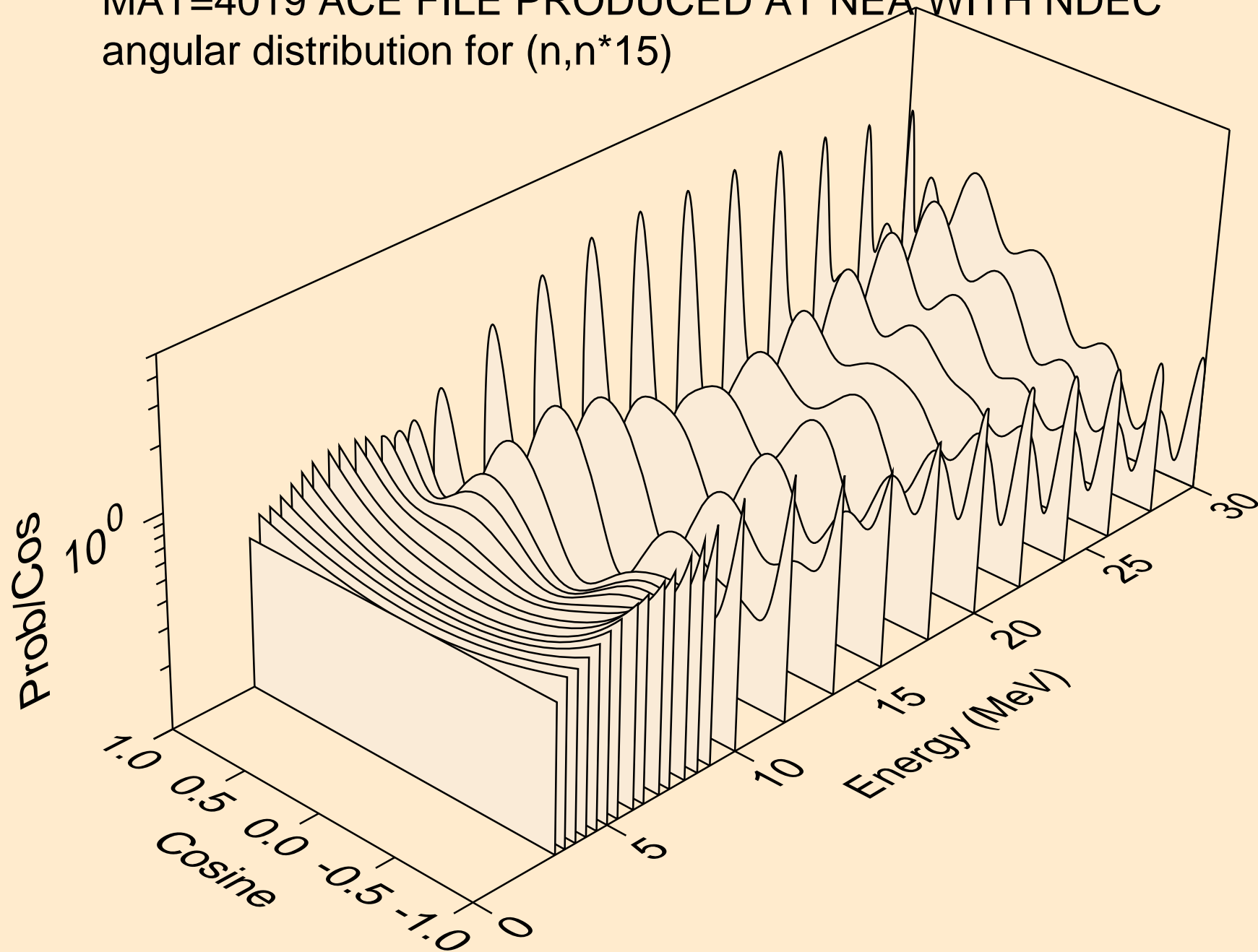
MAT=4019 ACE FILE PRODUCED AT NEA WITH NDEC
angular distribution for (n,n*13)



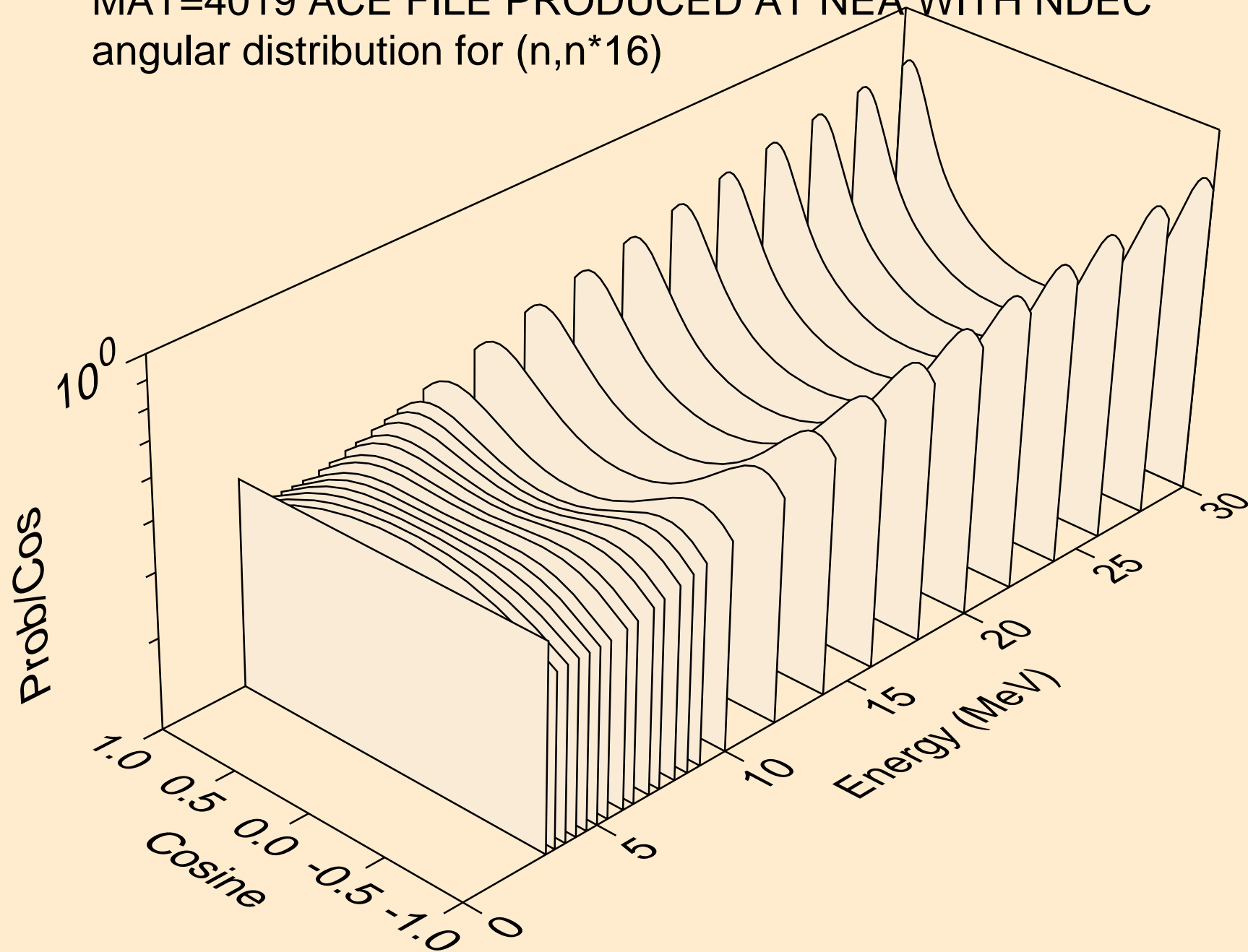
MAT=4019 ACE FILE PRODUCED AT NEA WITH NDEC
angular distribution for (n,n*14)



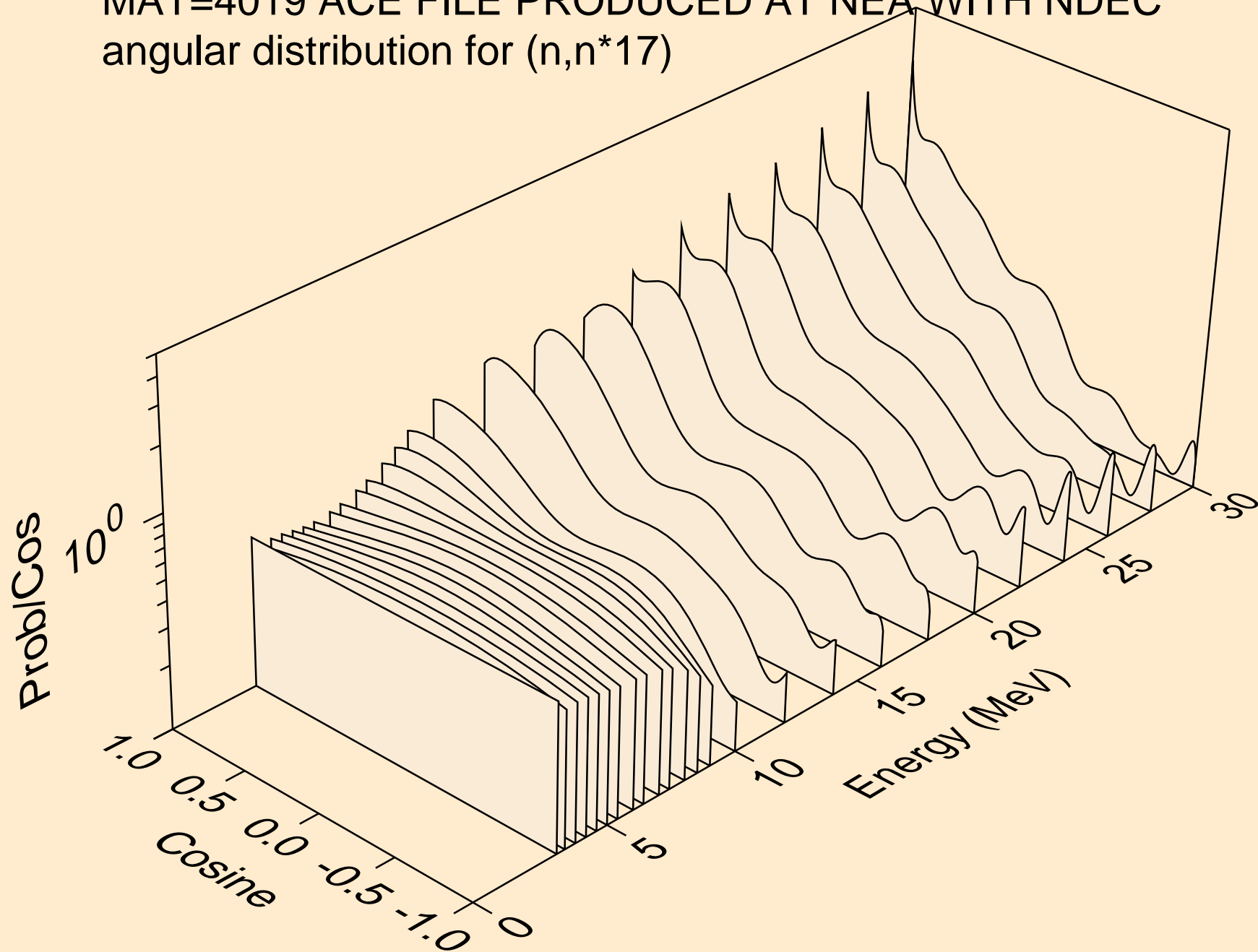
MAT=4019 ACE FILE PRODUCED AT NEA WITH NDEC
angular distribution for (n,n*15)



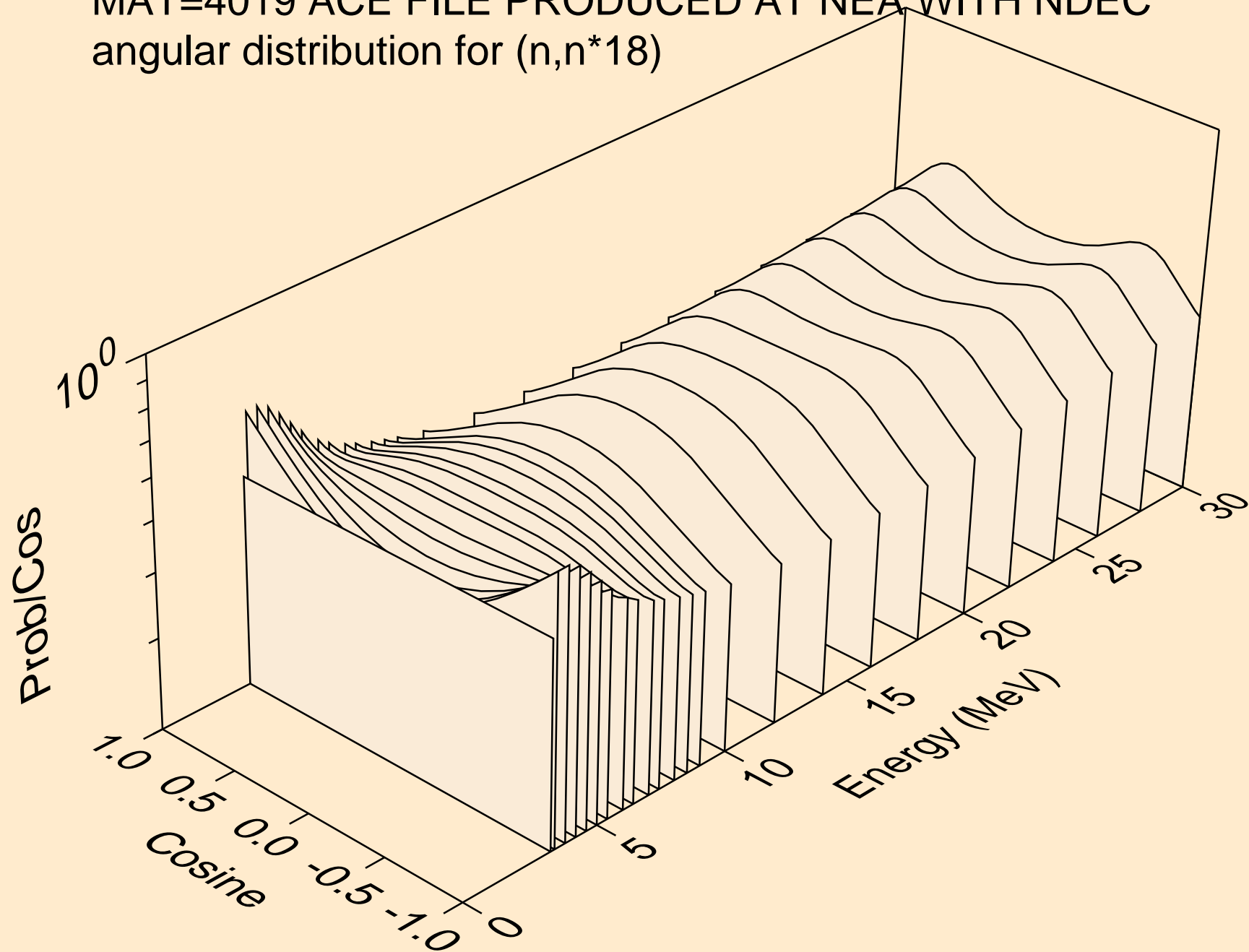
MAT=4019 ACE FILE PRODUCED AT NEA WITH NDEC
angular distribution for (n,n*16)



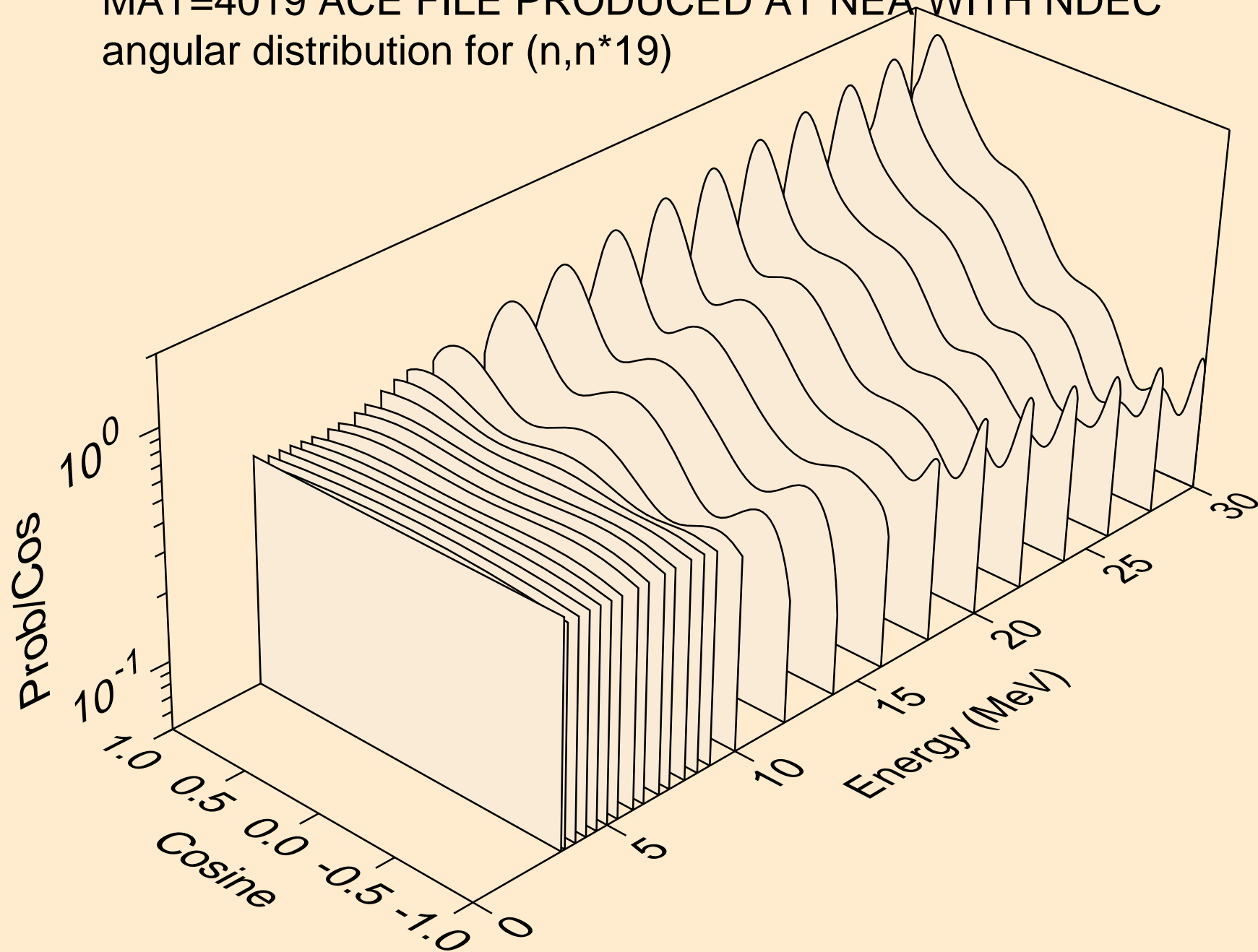
MAT=4019 ACE FILE PRODUCED AT NEA WITH NDEC
angular distribution for (n,n*17)



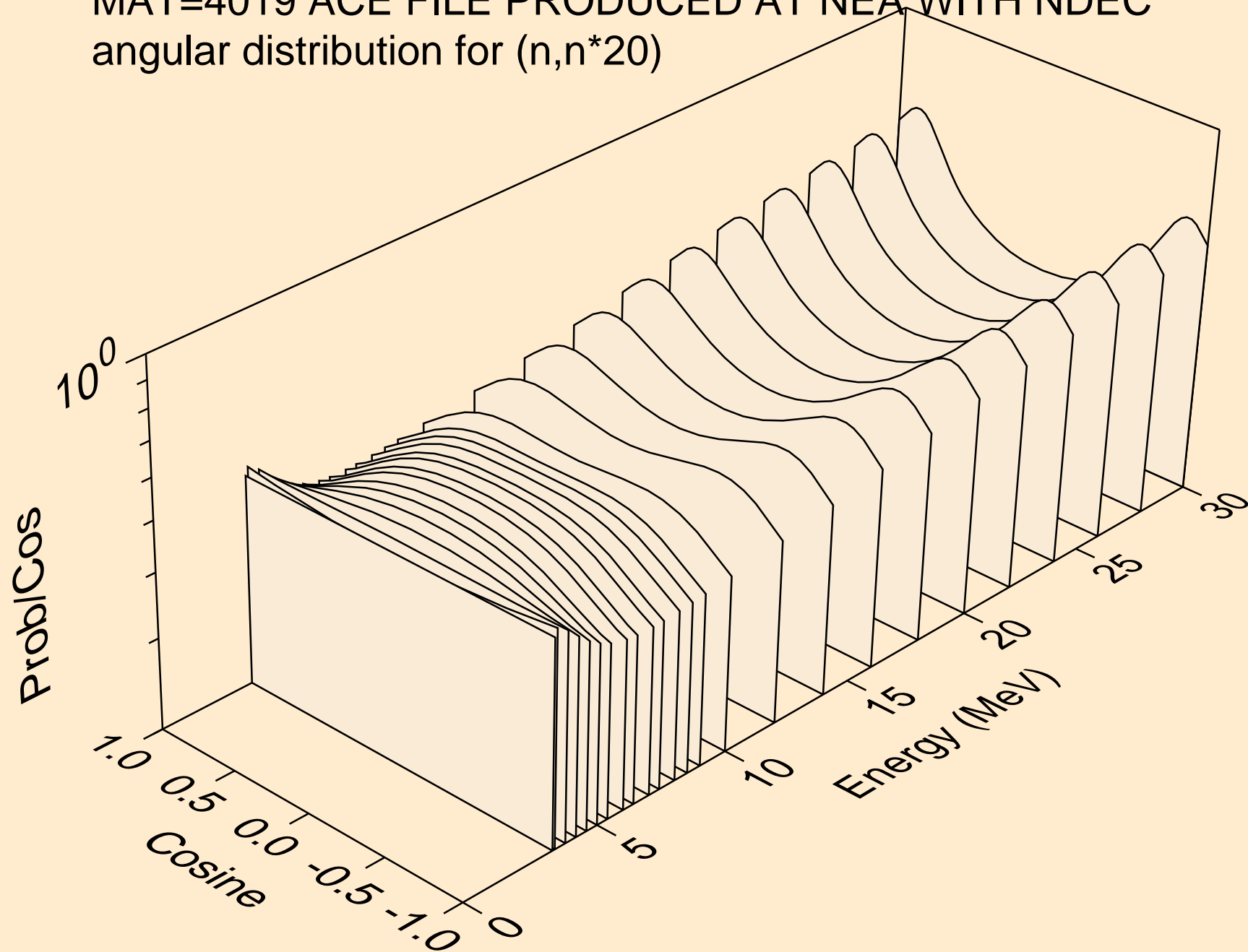
MAT=4019 ACE FILE PRODUCED AT NEA WITH NDEC
angular distribution for (n,n*18)



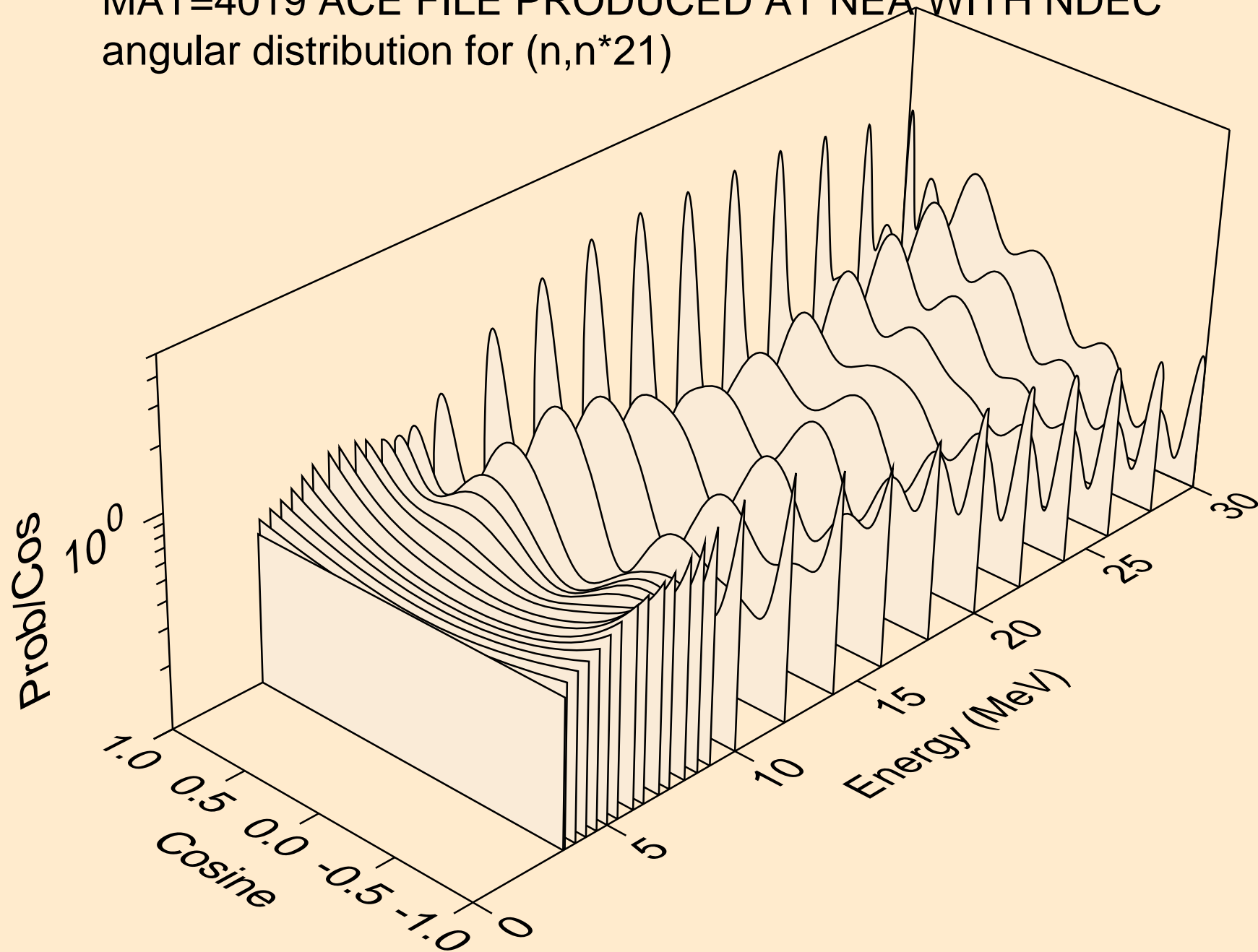
MAT=4019 ACE FILE PRODUCED AT NEA WITH NDEC
angular distribution for (n,n*19)



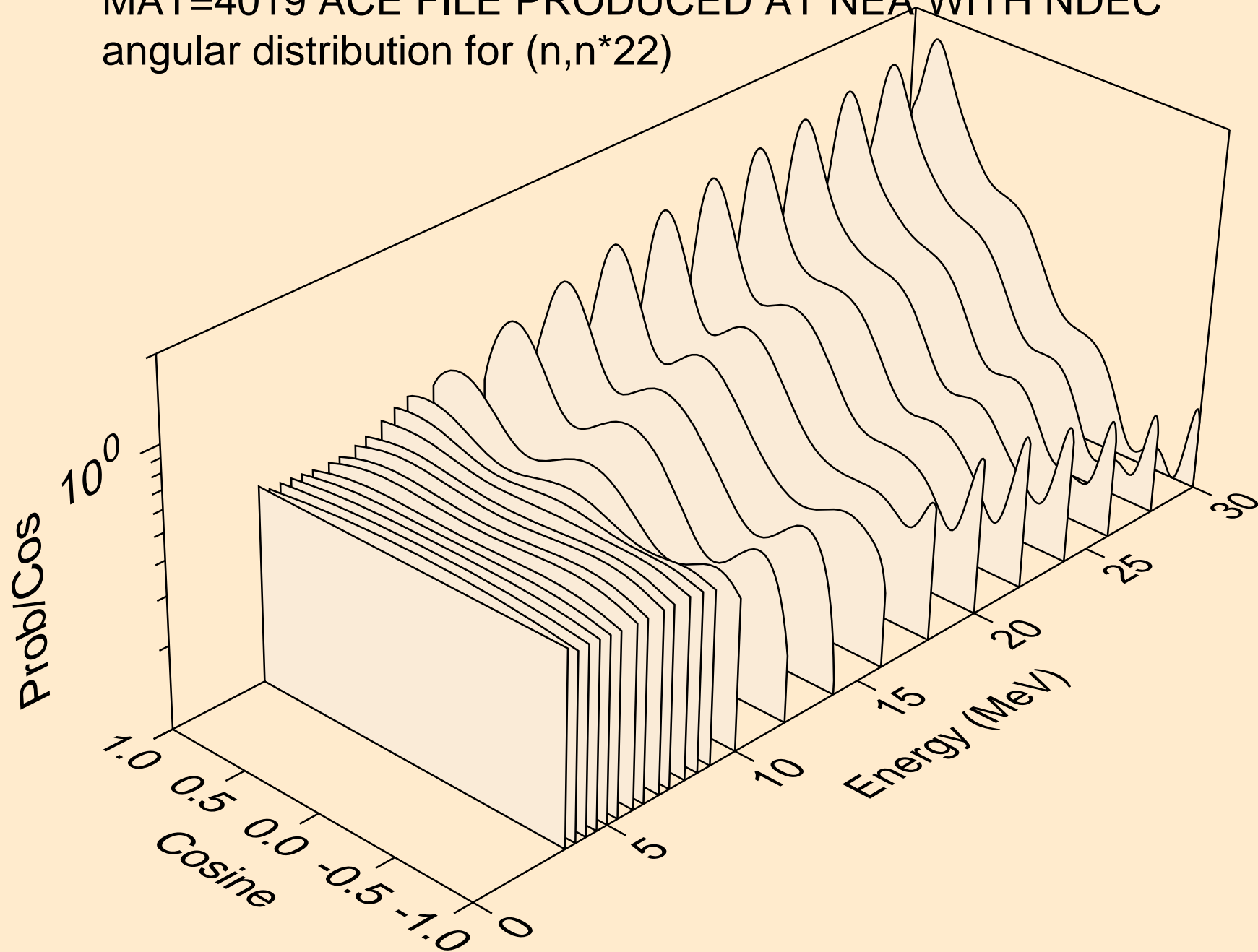
MAT=4019 ACE FILE PRODUCED AT NEA WITH NDEC
angular distribution for (n,n*20)



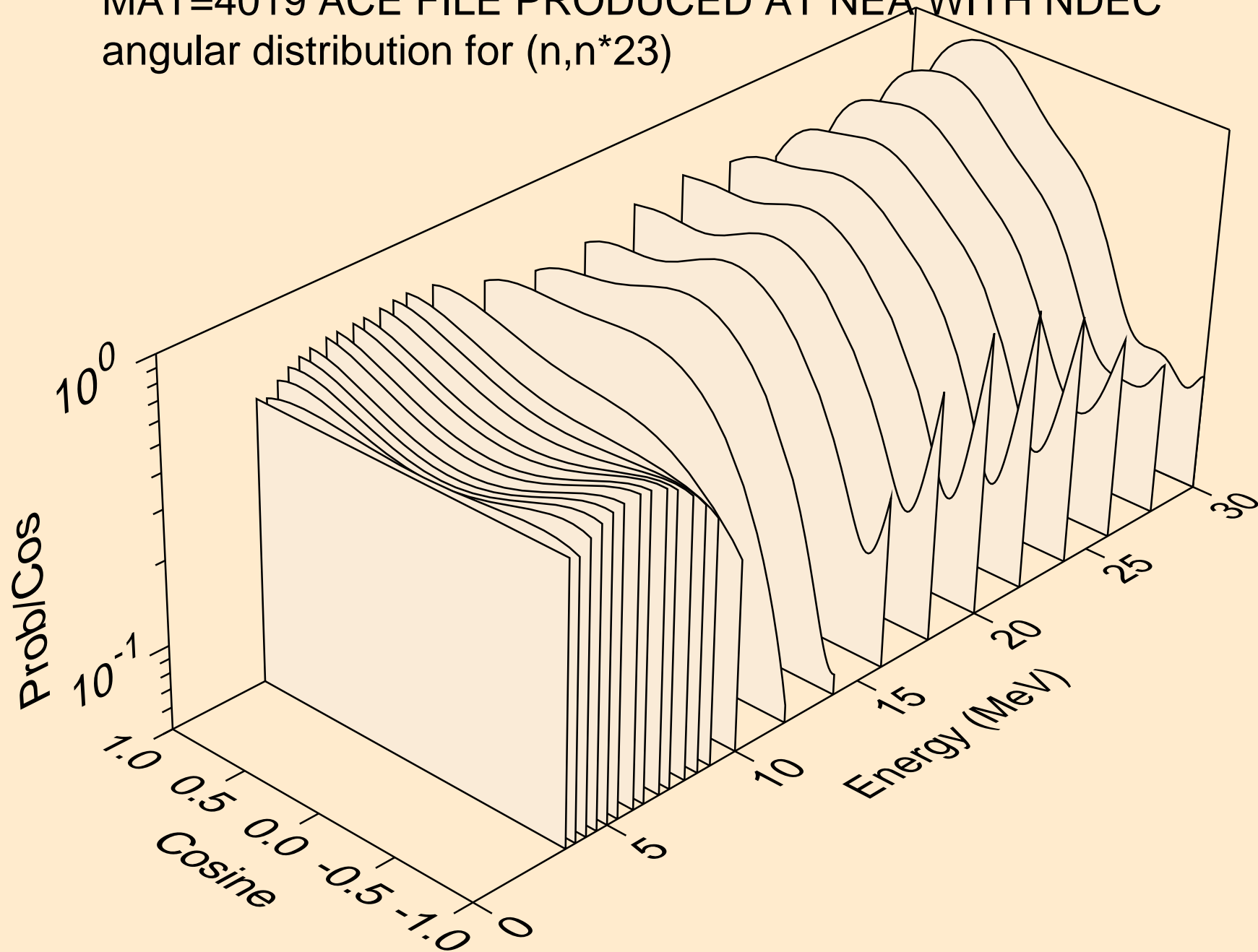
MAT=4019 ACE FILE PRODUCED AT NEA WITH NDEC
angular distribution for (n,n*21)



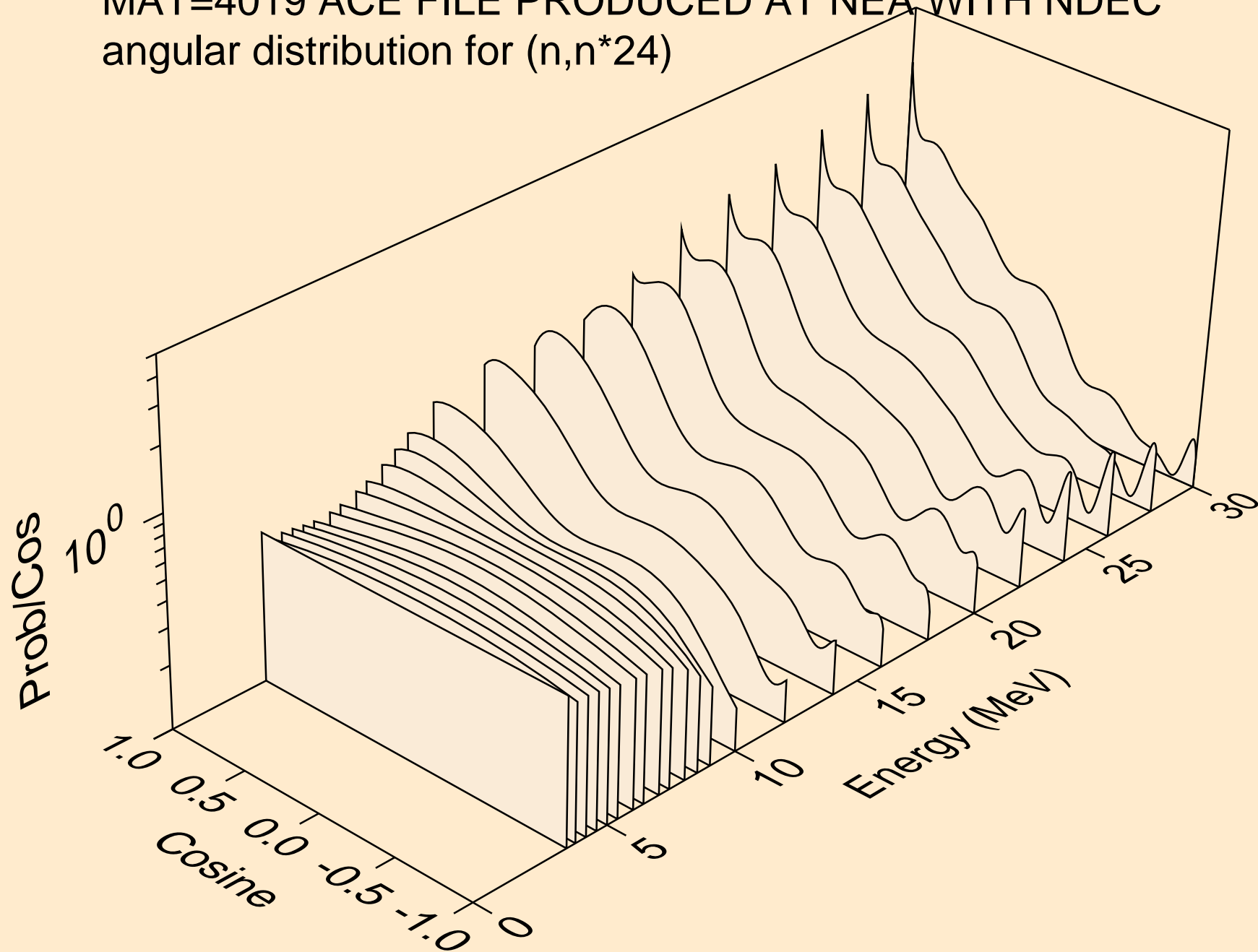
MAT=4019 ACE FILE PRODUCED AT NEA WITH NDEC
angular distribution for (n,n*22)



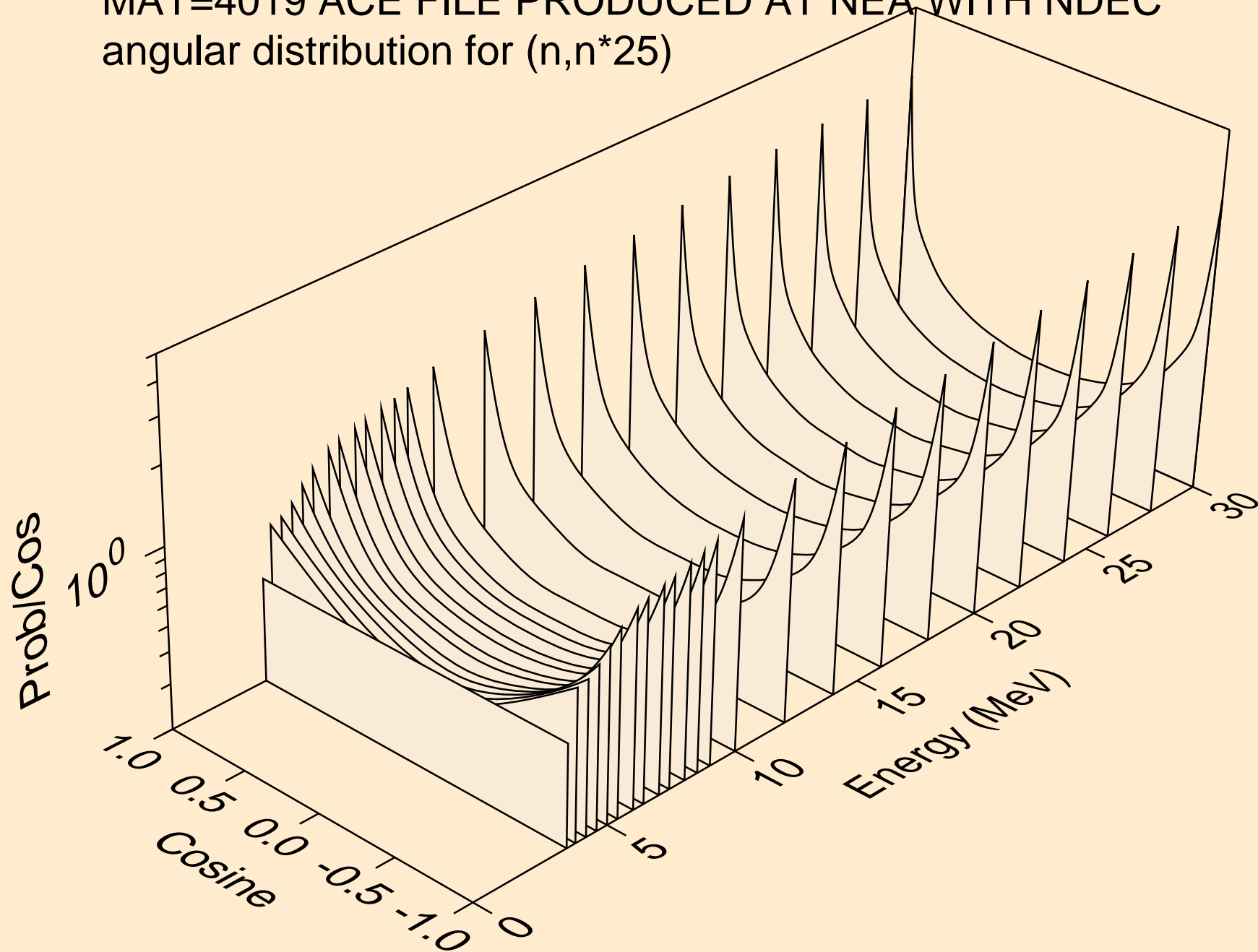
MAT=4019 ACE FILE PRODUCED AT NEA WITH NDEC
angular distribution for (n,n*23)



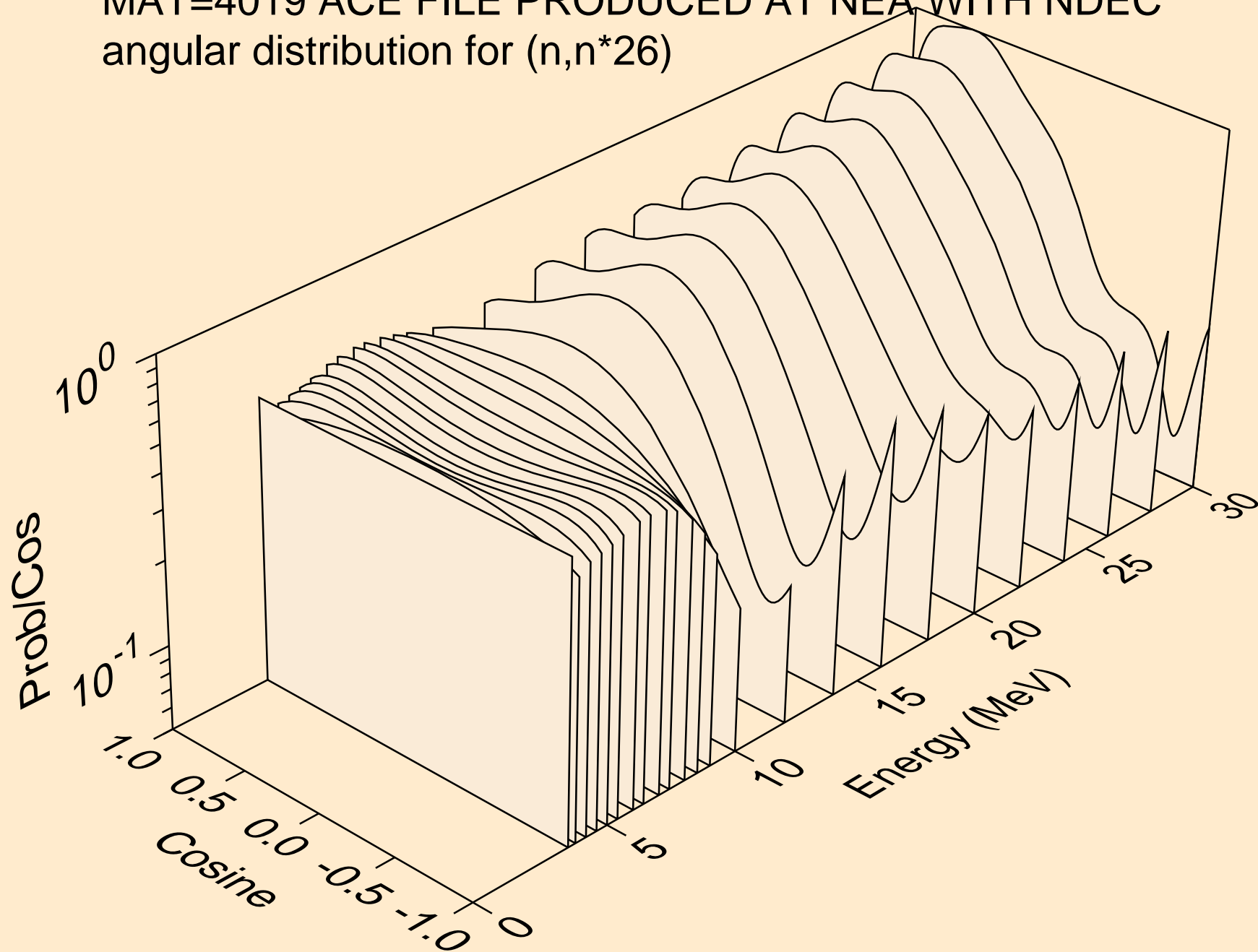
MAT=4019 ACE FILE PRODUCED AT NEA WITH NDEC
angular distribution for (n,n*24)



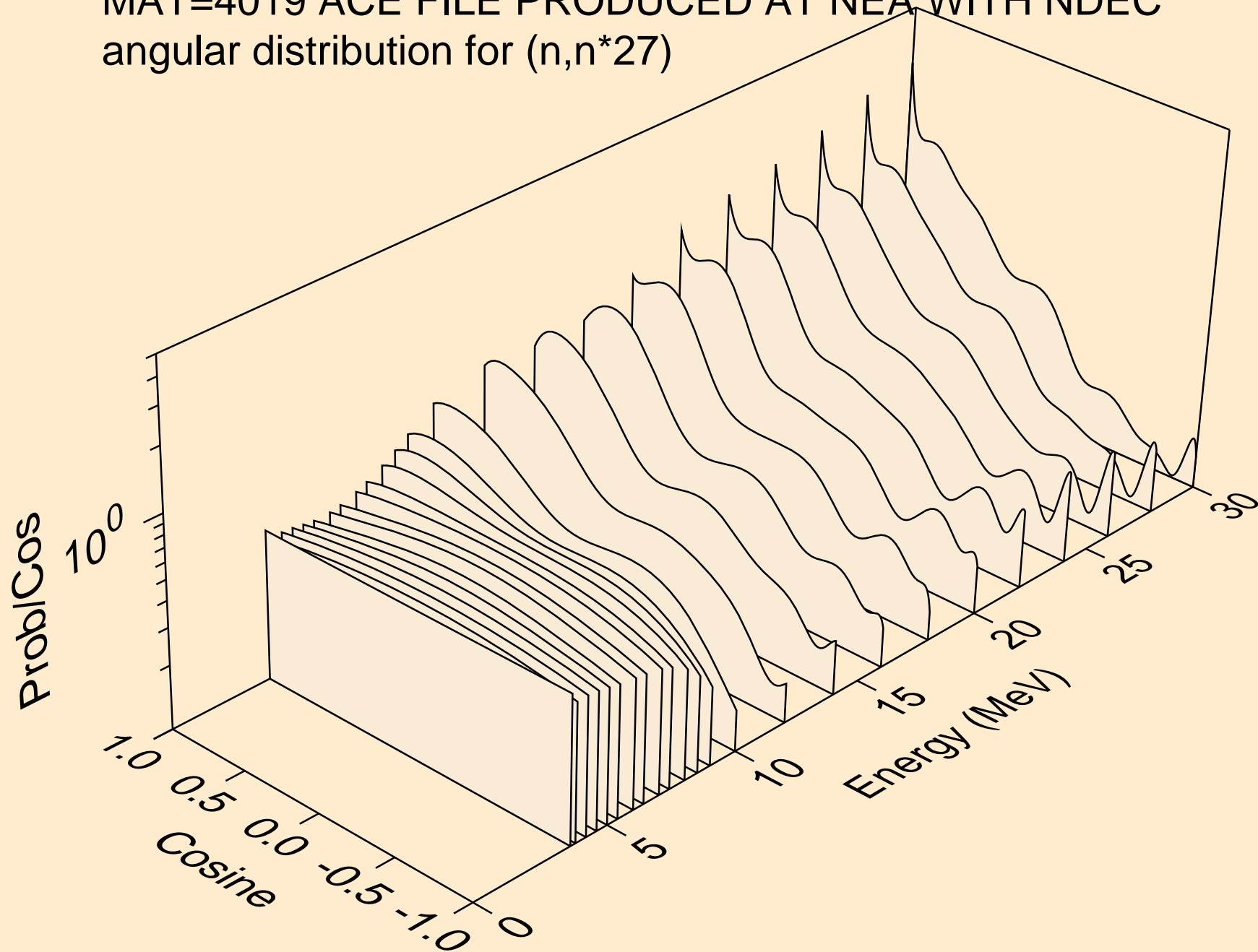
MAT=4019 ACE FILE PRODUCED AT NEA WITH NDEC
angular distribution for (n,n*25)



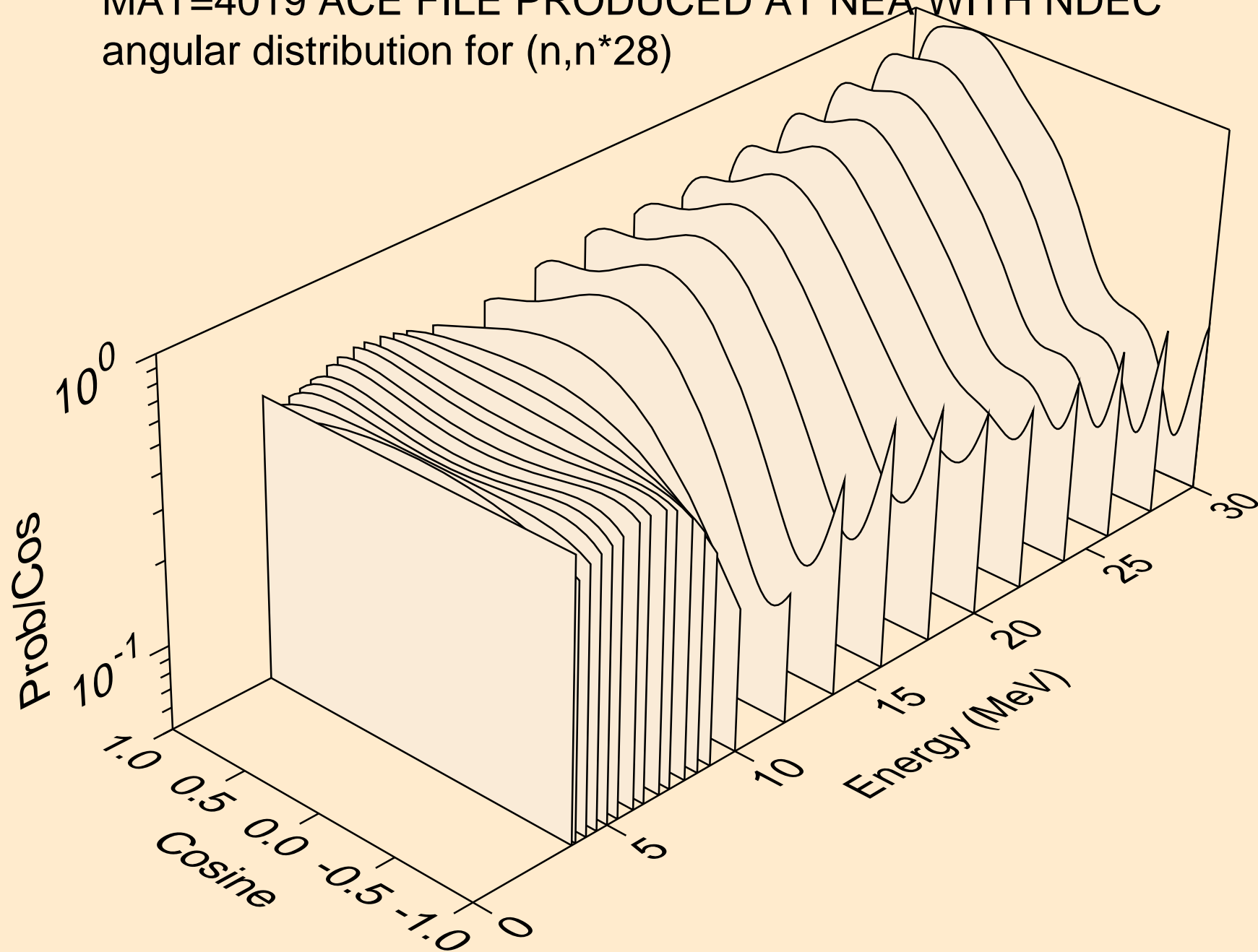
MAT=4019 ACE FILE PRODUCED AT NEA WITH NDEC
angular distribution for (n,n*26)



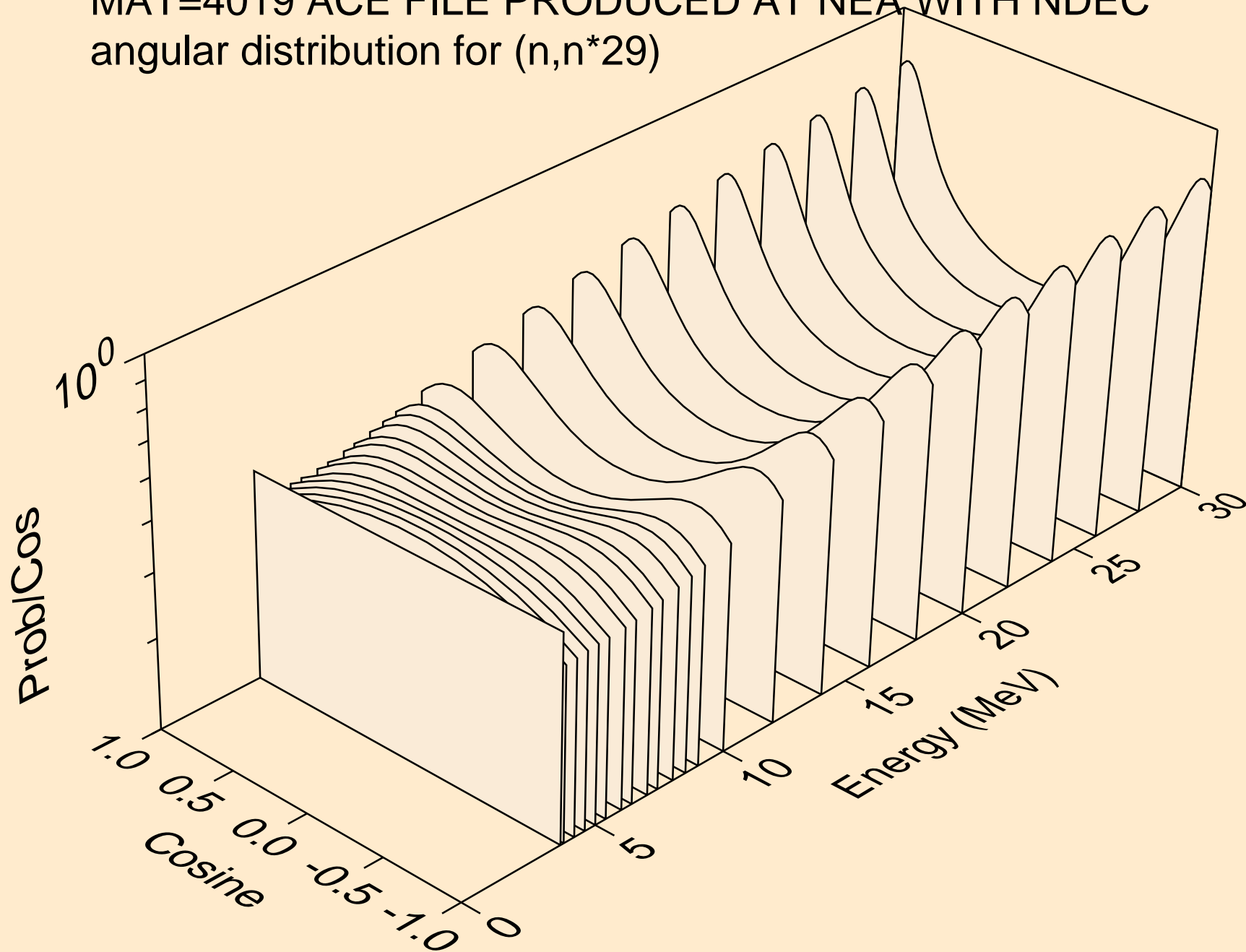
MAT=4019 ACE FILE PRODUCED AT NEA WITH NDEC
angular distribution for (n,n*27)



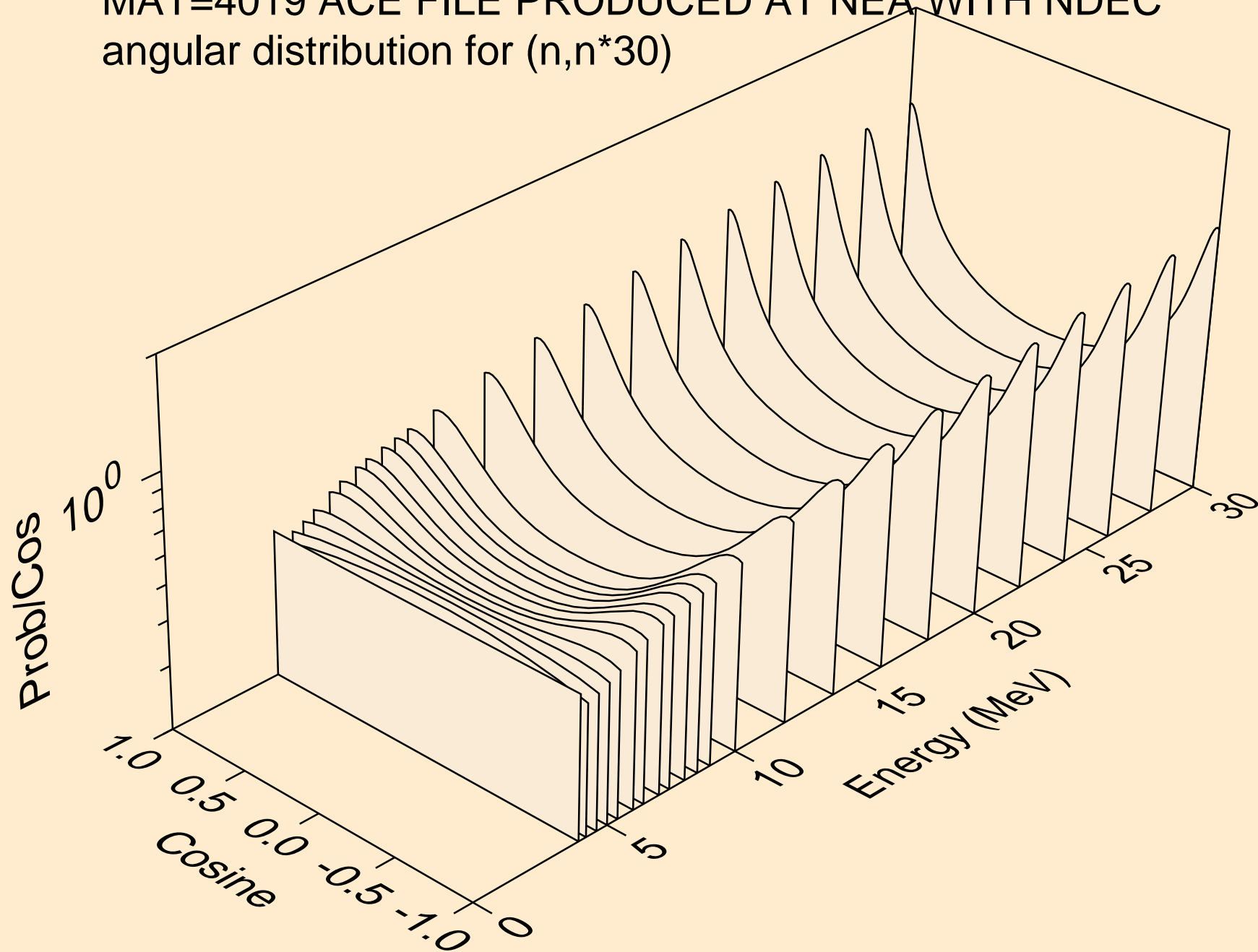
MAT=4019 ACE FILE PRODUCED AT NEA WITH NDEC
angular distribution for (n,n*28)



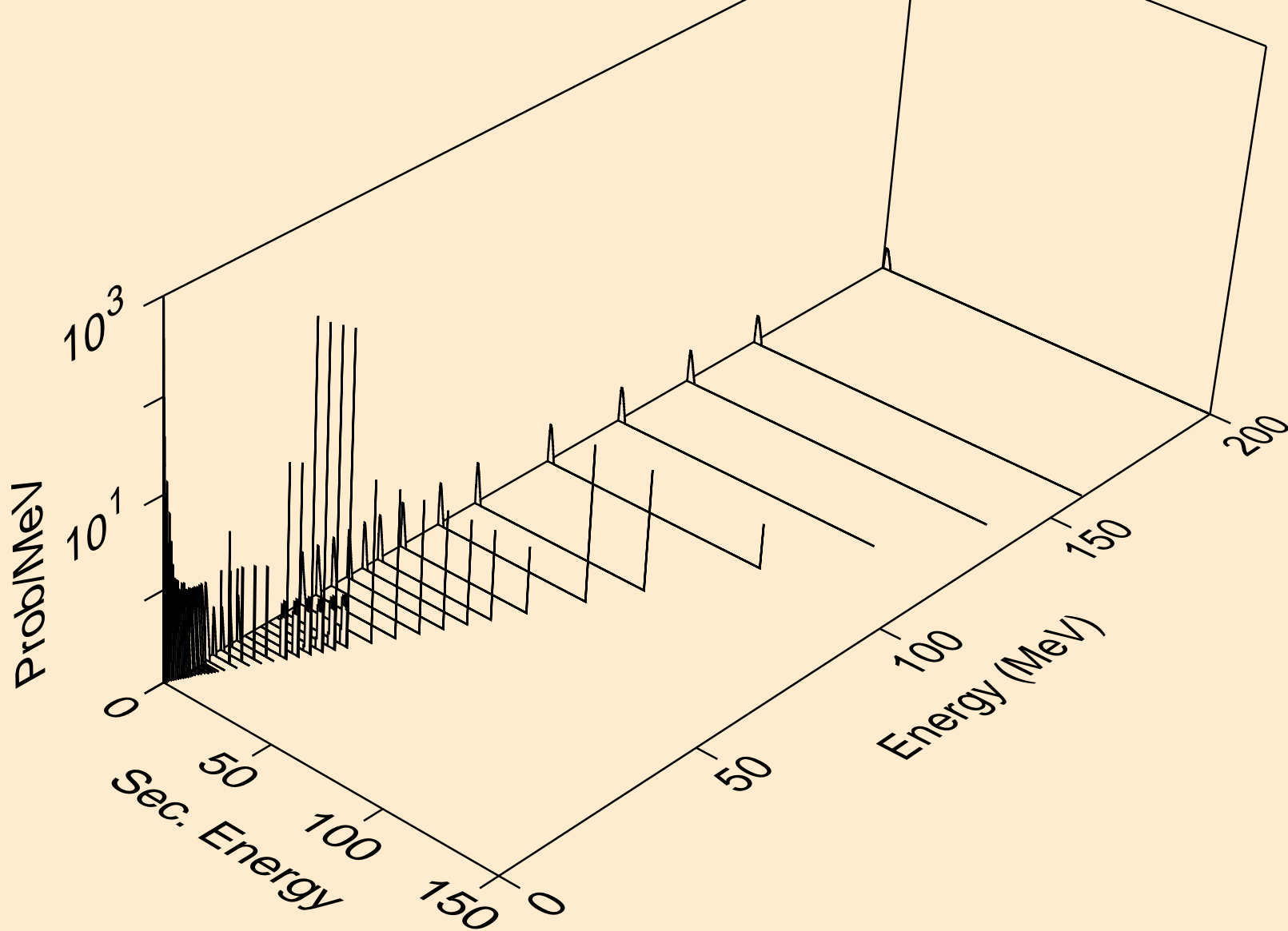
MAT=4019 ACE FILE PRODUCED AT NEA WITH NDEC
angular distribution for (n,n*29)



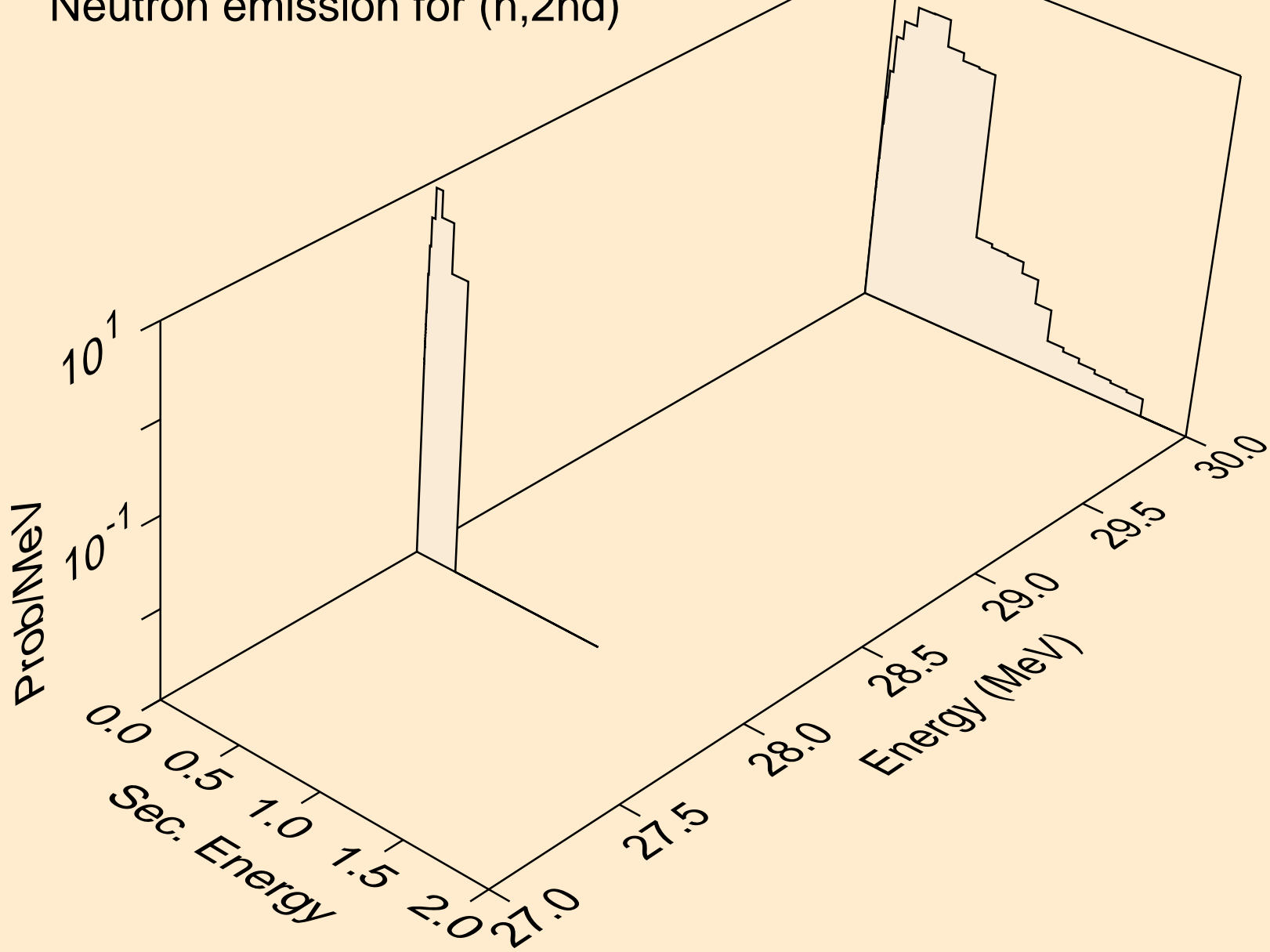
MAT=4019 ACE FILE PRODUCED AT NEA WITH NDEC
angular distribution for (n,n*30)



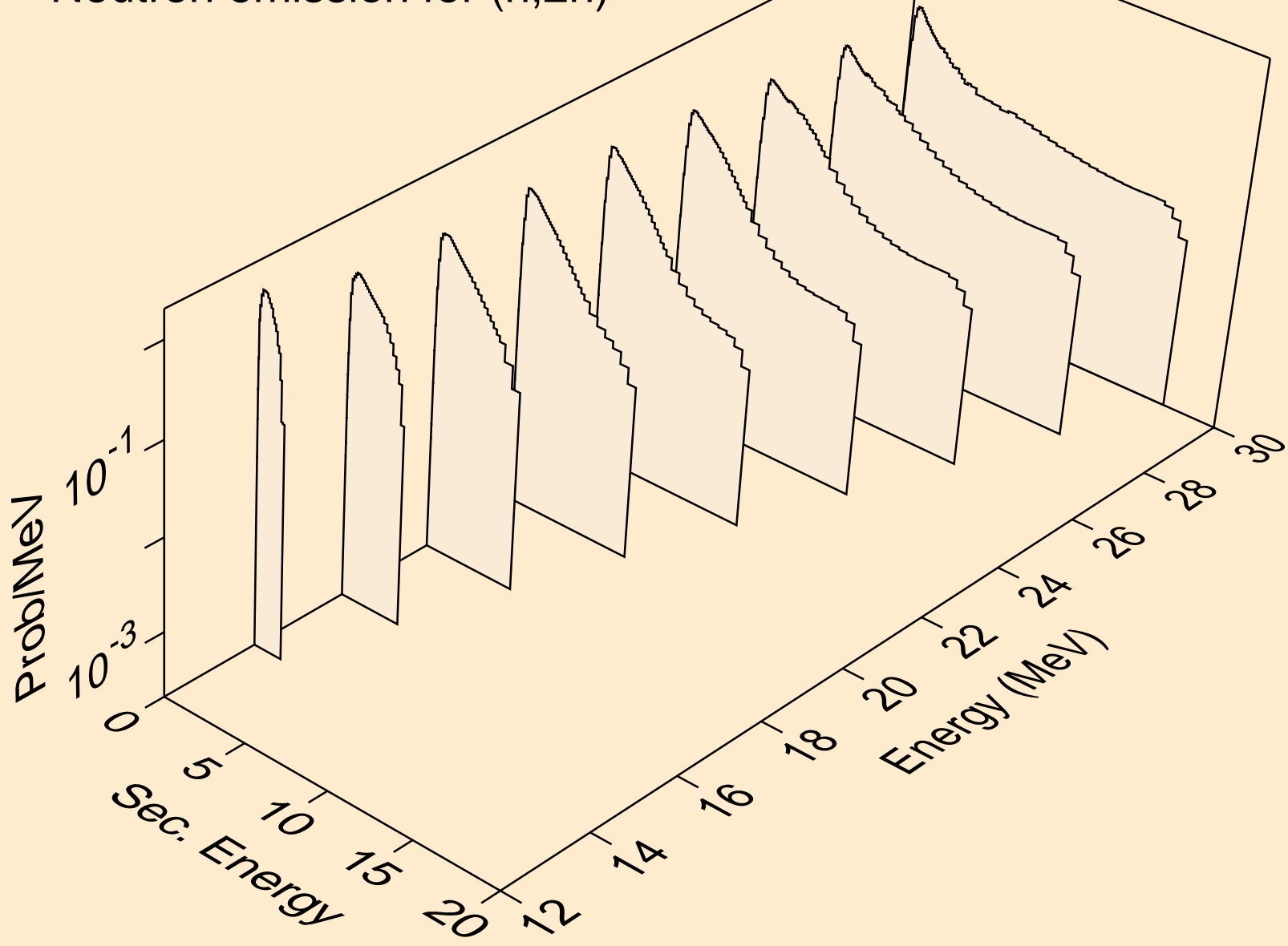
MAT=4019 ACE FILE PRODUCED AT NEA WITH NDEC
Neutron emission for (n,x)



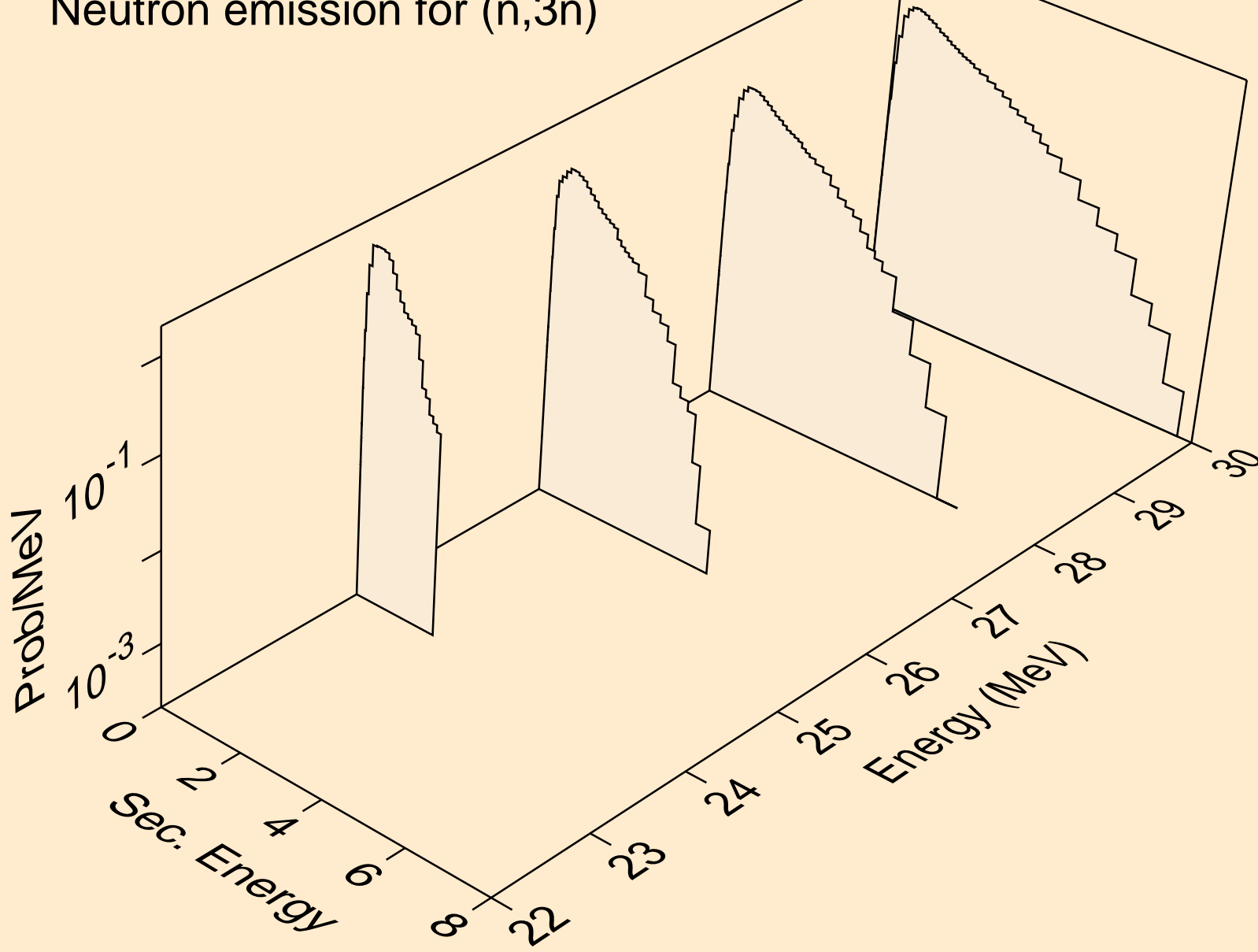
MAT=4019 ACE FILE PRODUCED AT NEA WITH NDEC
Neutron emission for (n,2nd)



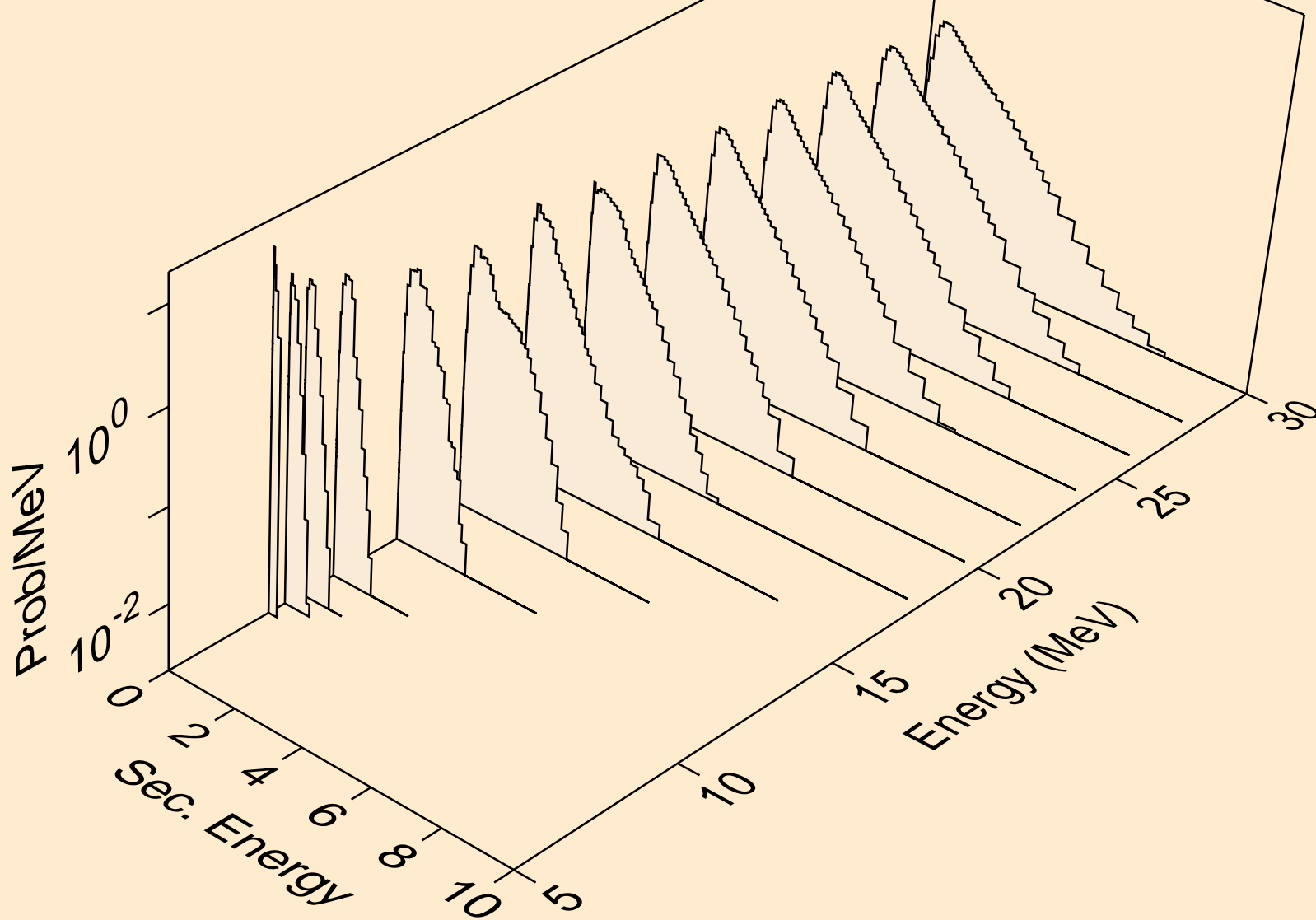
MAT=4019 ACE FILE PRODUCED AT NEA WITH NDEC
Neutron emission for (n,2n)



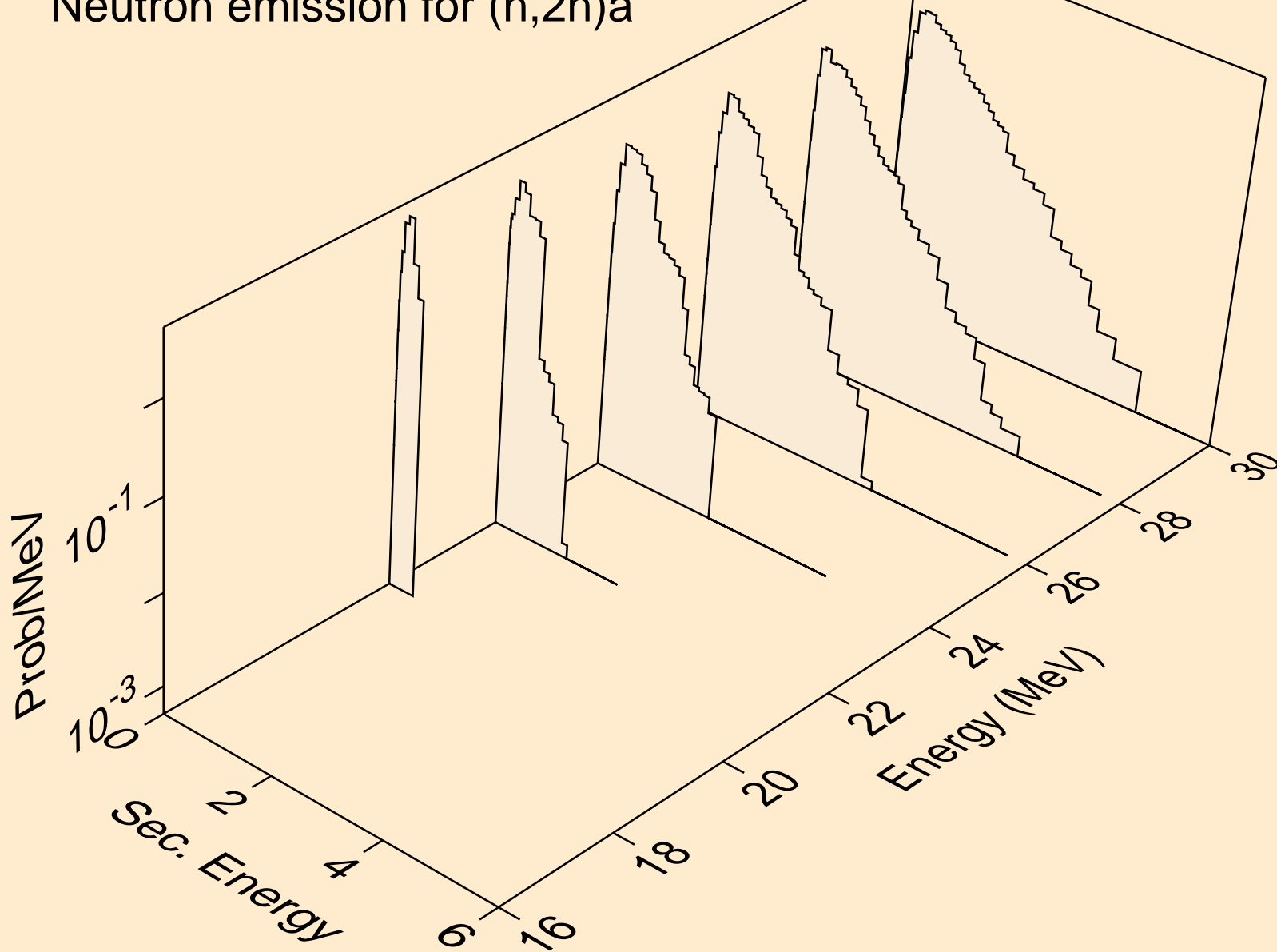
MAT=4019 ACE FILE PRODUCED AT NEA WITH NDEC
Neutron emission for (n,3n)



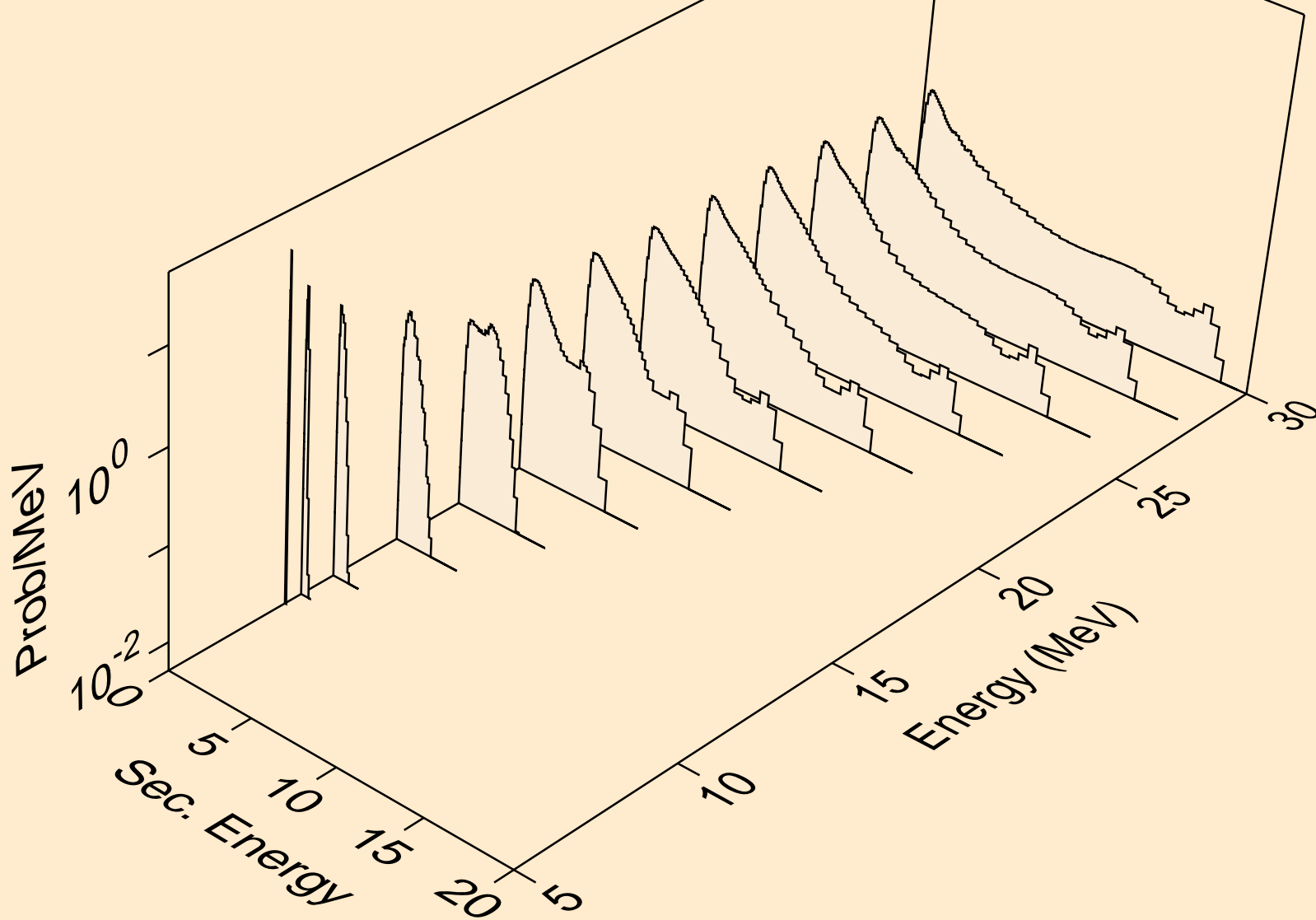
MAT=4019 ACE FILE PRODUCED AT NEA WITH NDEC
Neutron emission for (n,n*)a



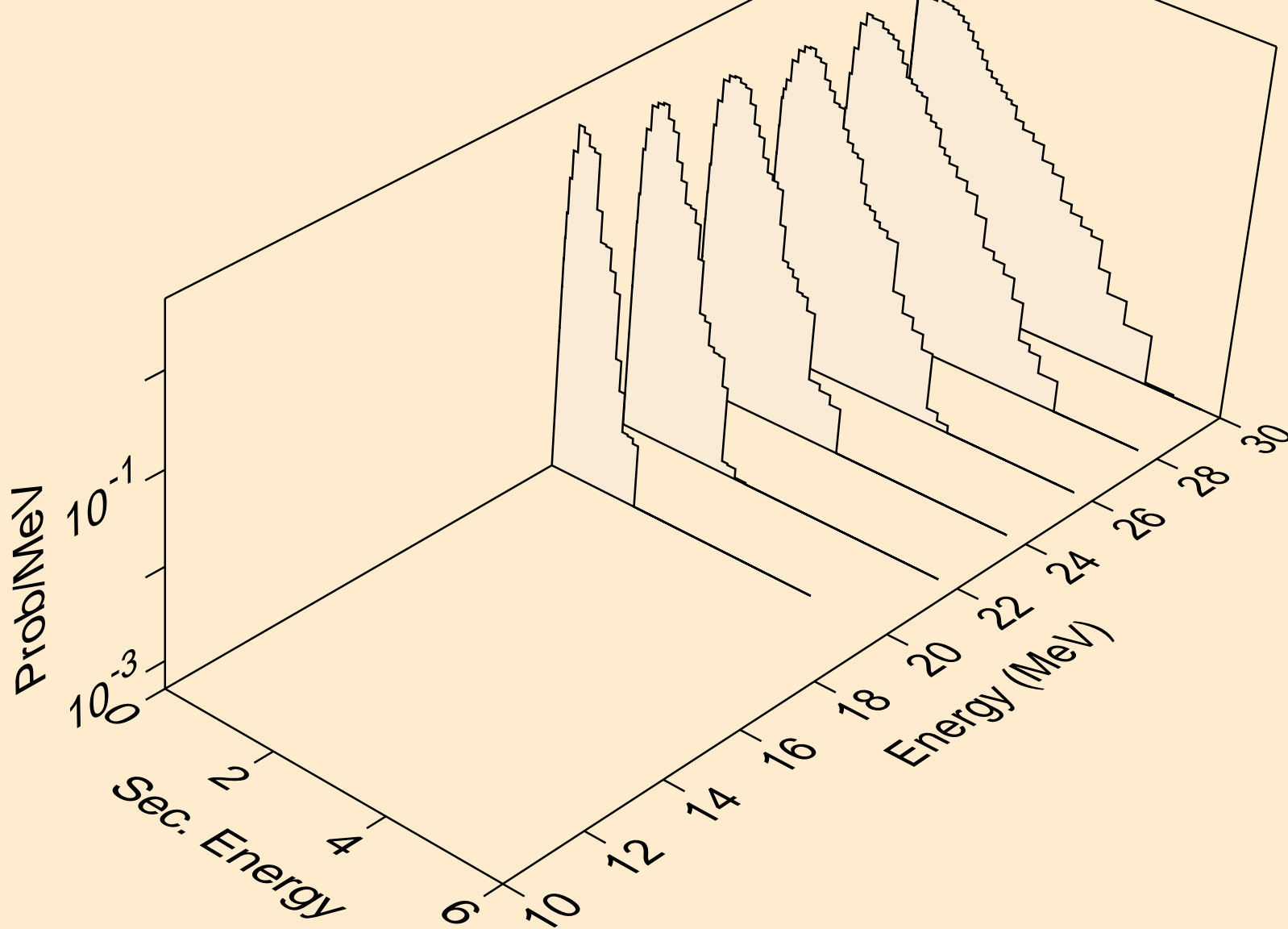
MAT=4019 ACE FILE PRODUCED AT NEA WITH NDEC
Neutron emission for (n,2n)a



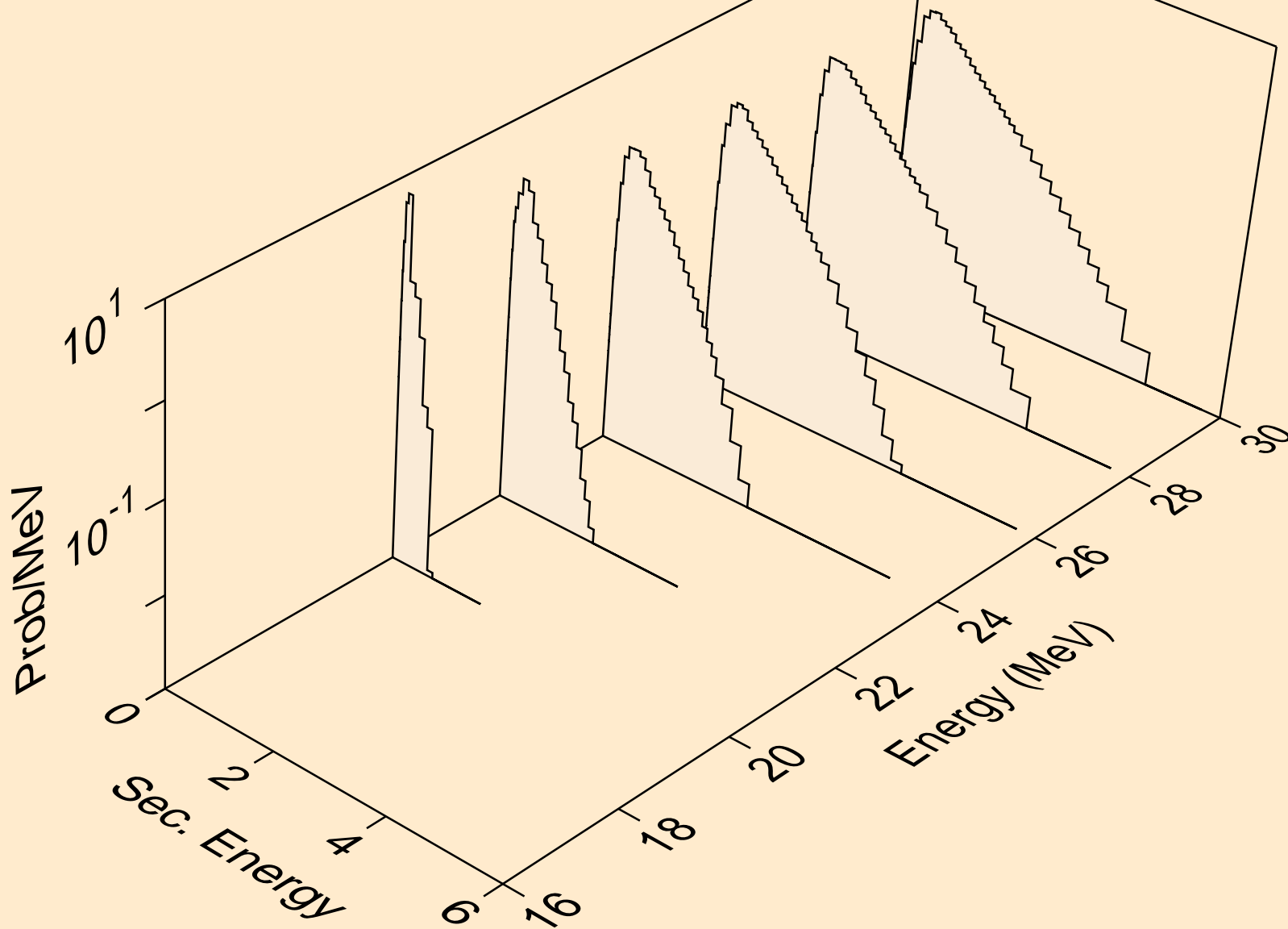
MAT=4019 ACE FILE PRODUCED AT NEA WITH NDEC
Neutron emission for (n,n*)p



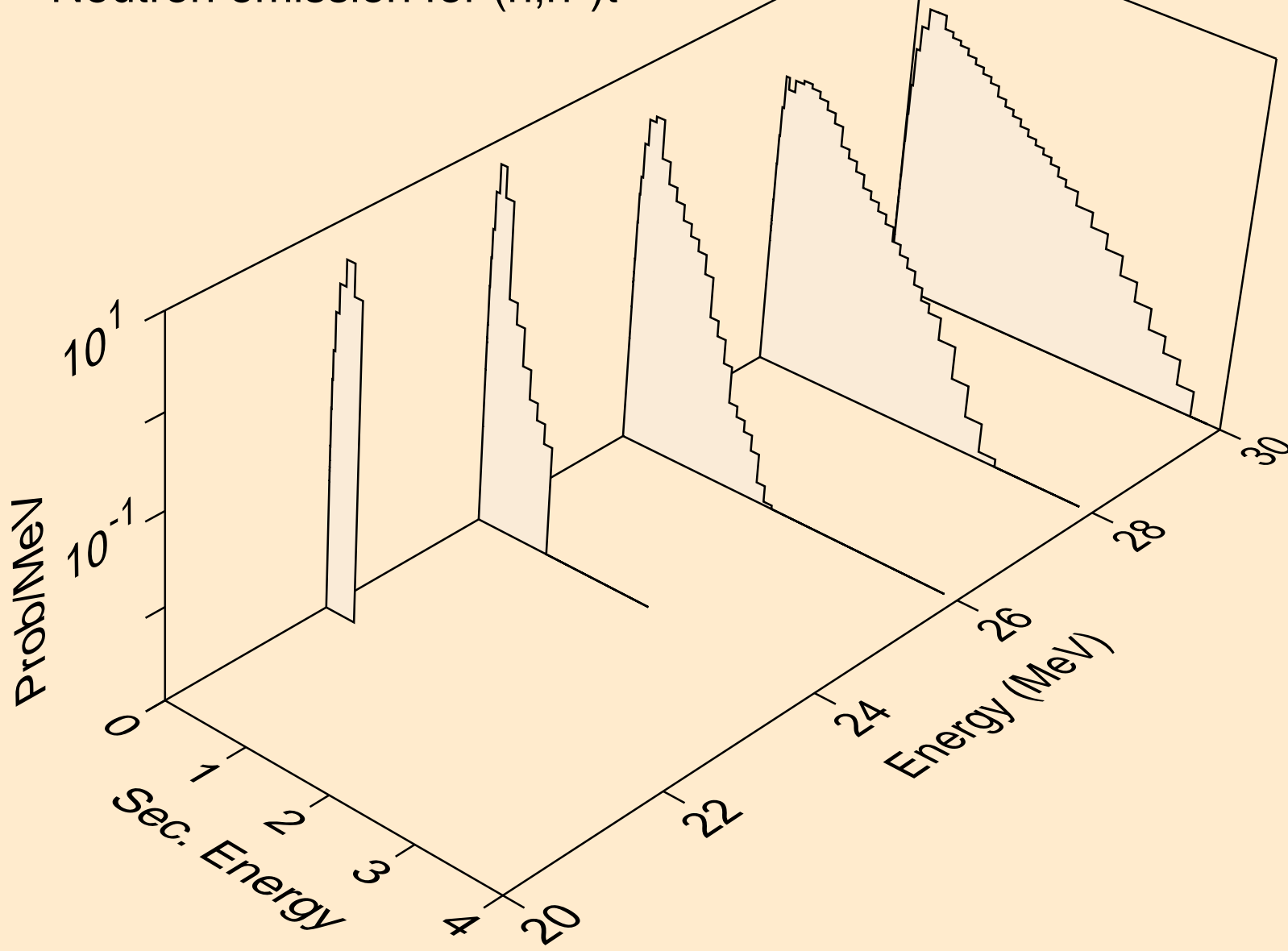
MAT=4019 ACE FILE PRODUCED AT NEA WITH NDEC
Neutron emission for (n,n*)2a



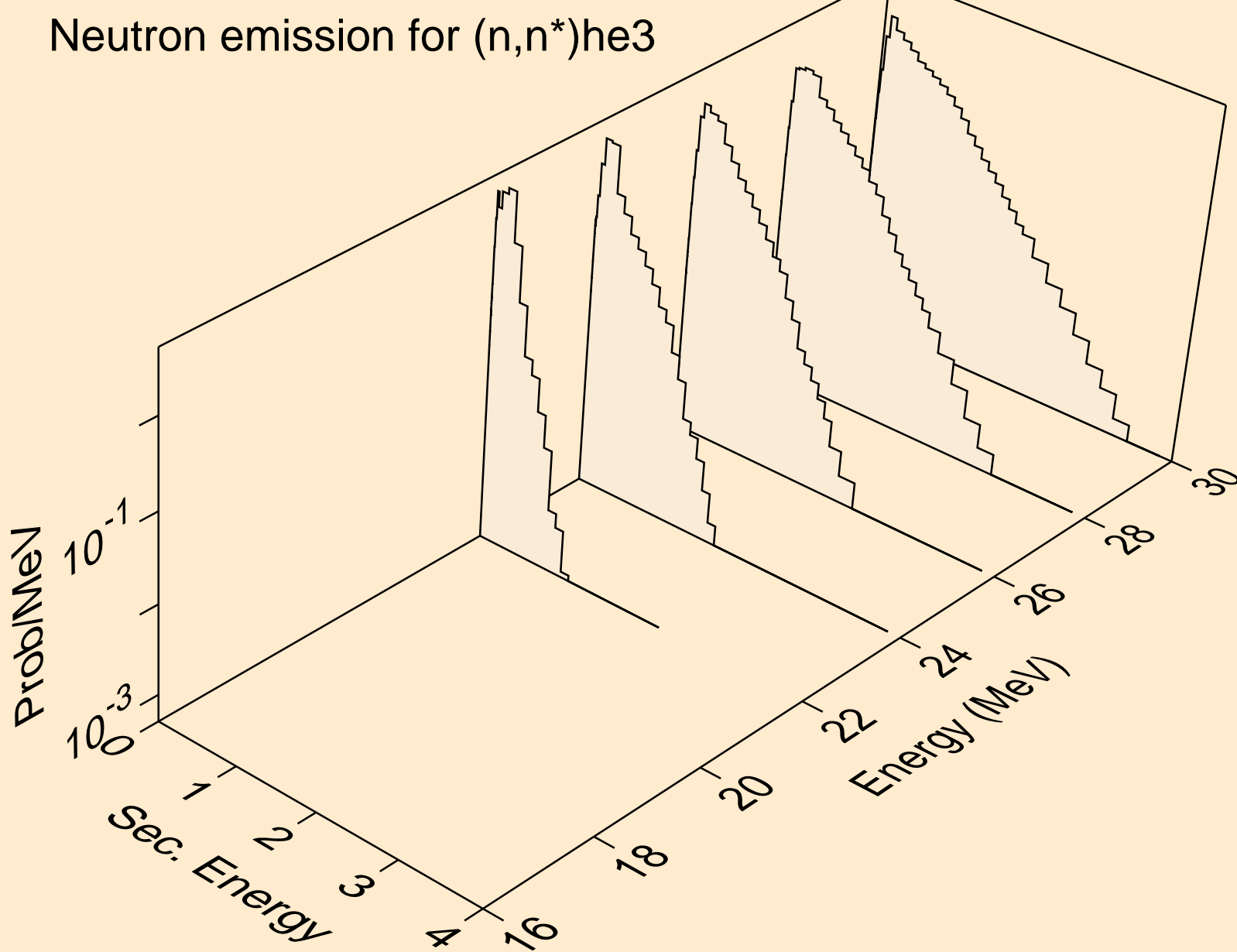
MAT=4019 ACE FILE PRODUCED AT NEA WITH NDEC
Neutron emission for (n,n*)d



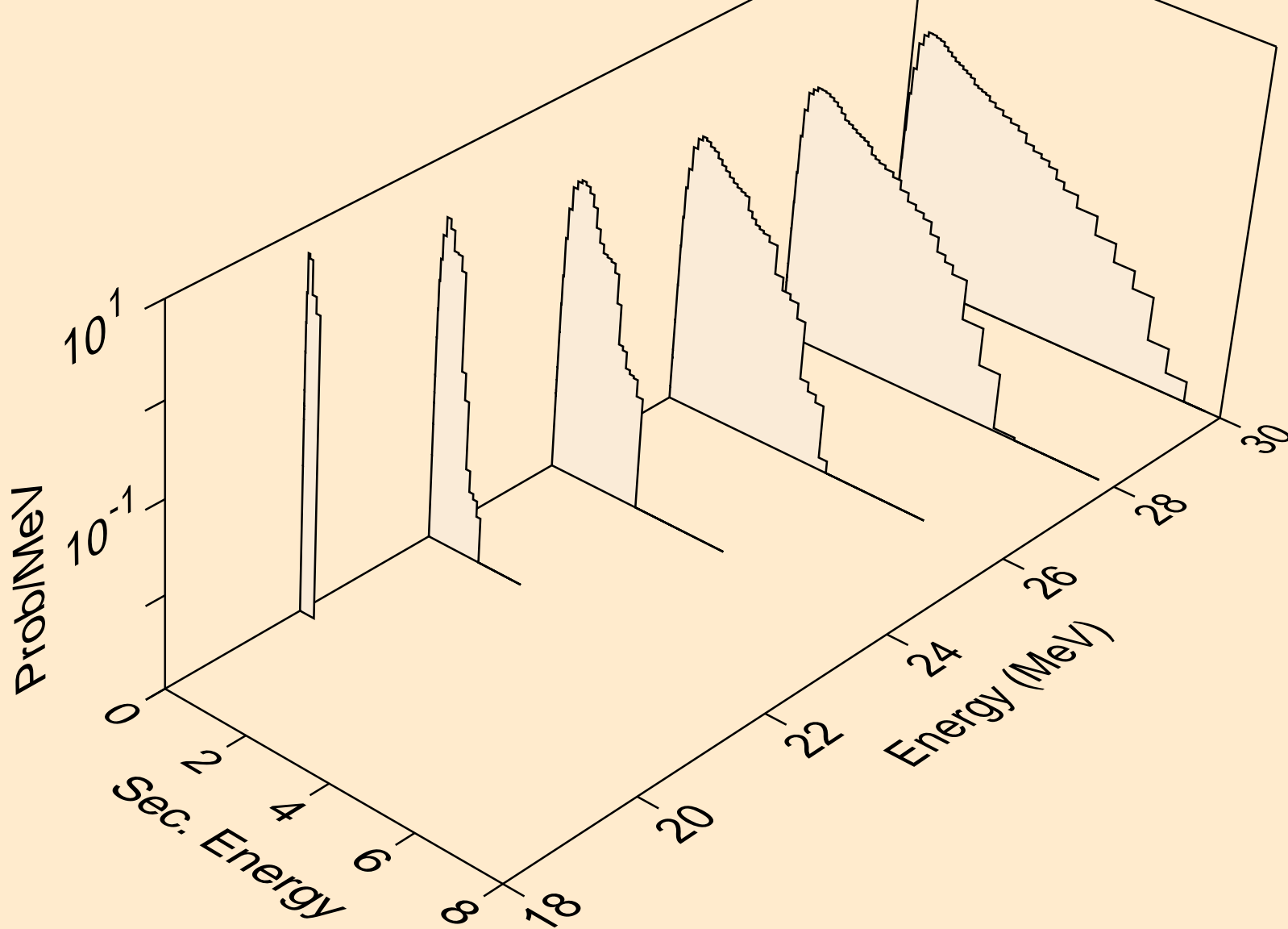
MAT=4019 ACE FILE PRODUCED AT NEA WITH NDEC
Neutron emission for (n,n*)t



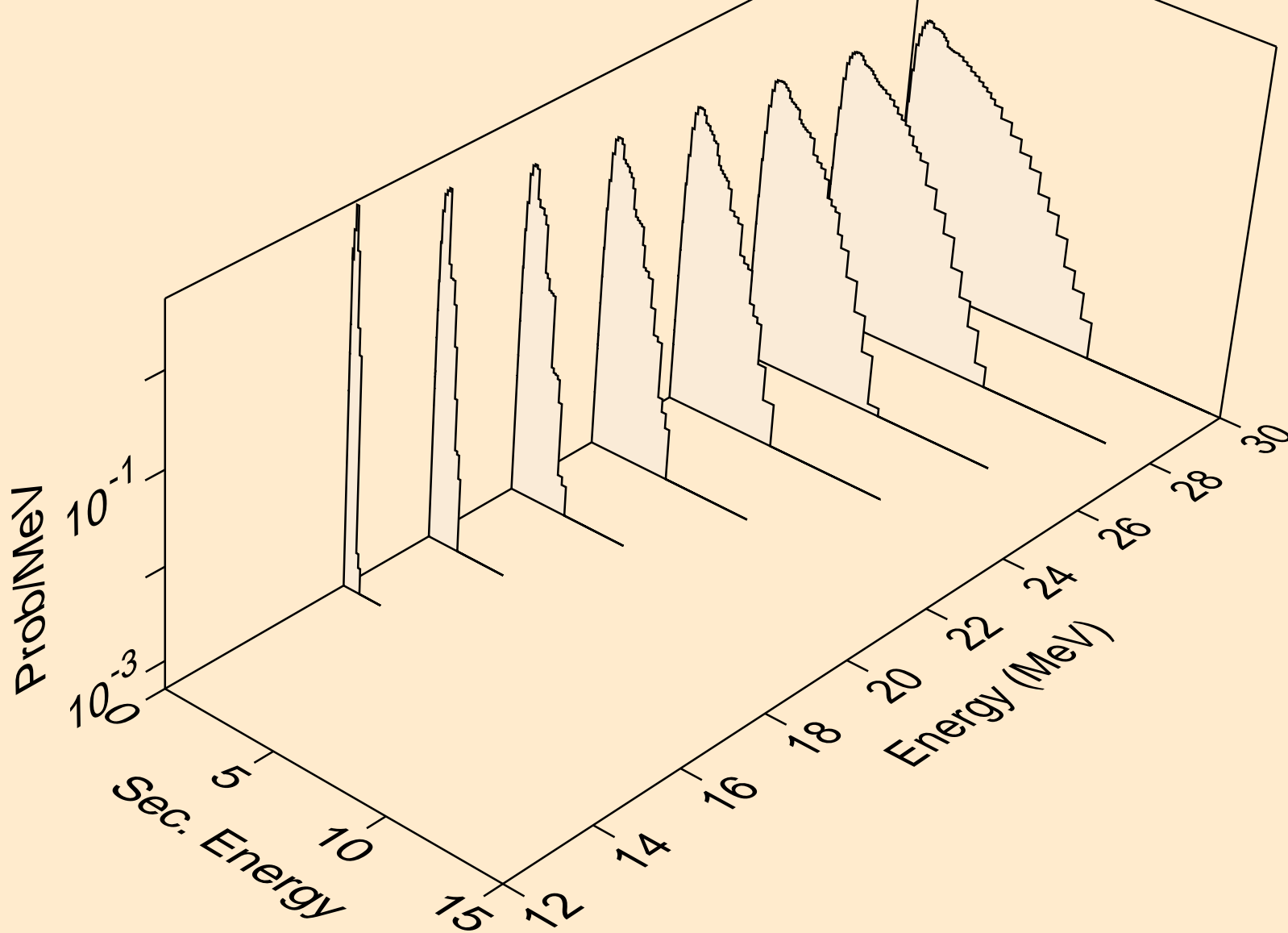
MAT=4019 ACE FILE PRODUCED AT NEA WITH NDEC
Neutron emission for (n,n*)he3



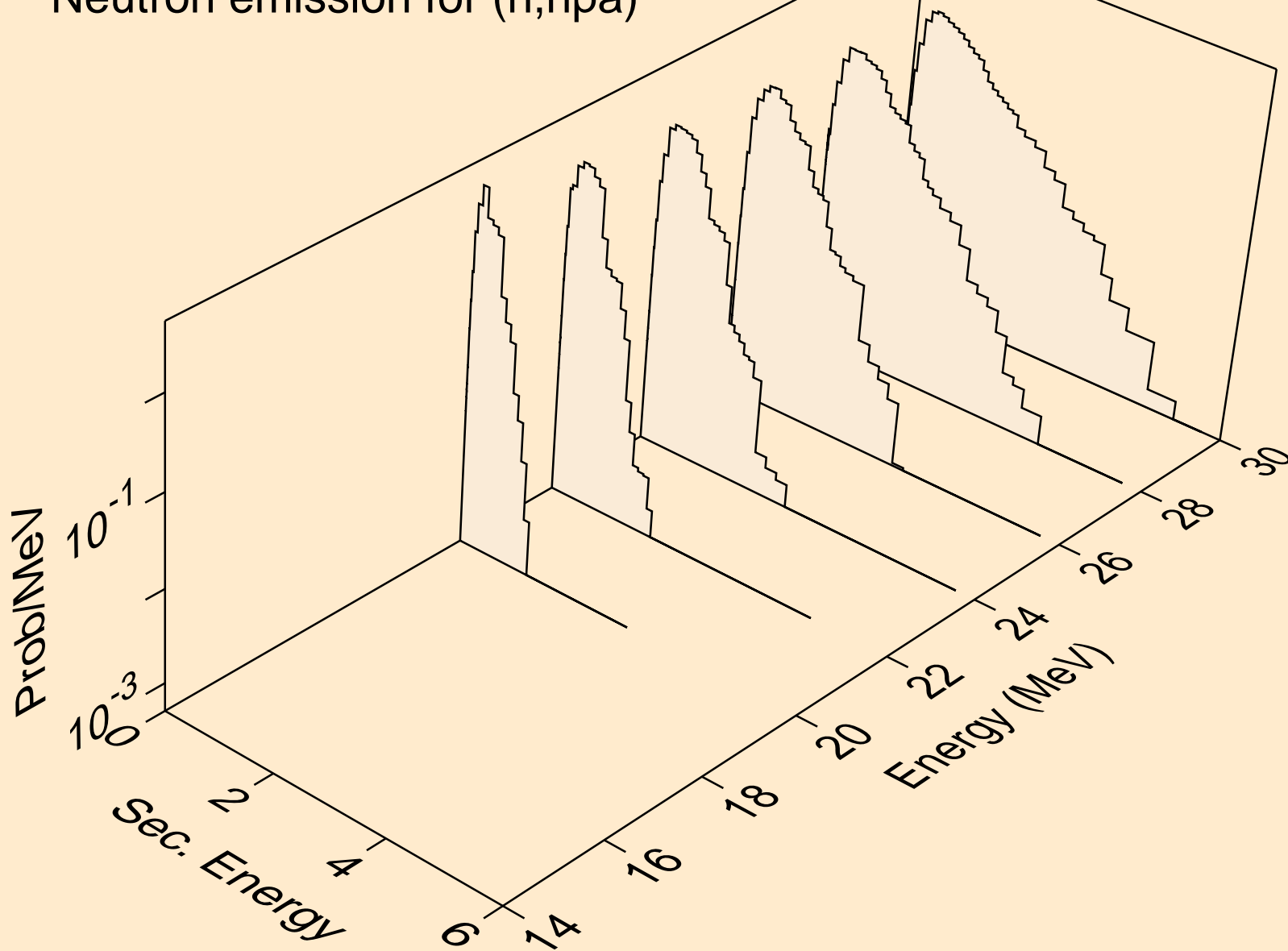
MAT=4019 ACE FILE PRODUCED AT NEA WITH NDEC
Neutron emission for (n,2np)



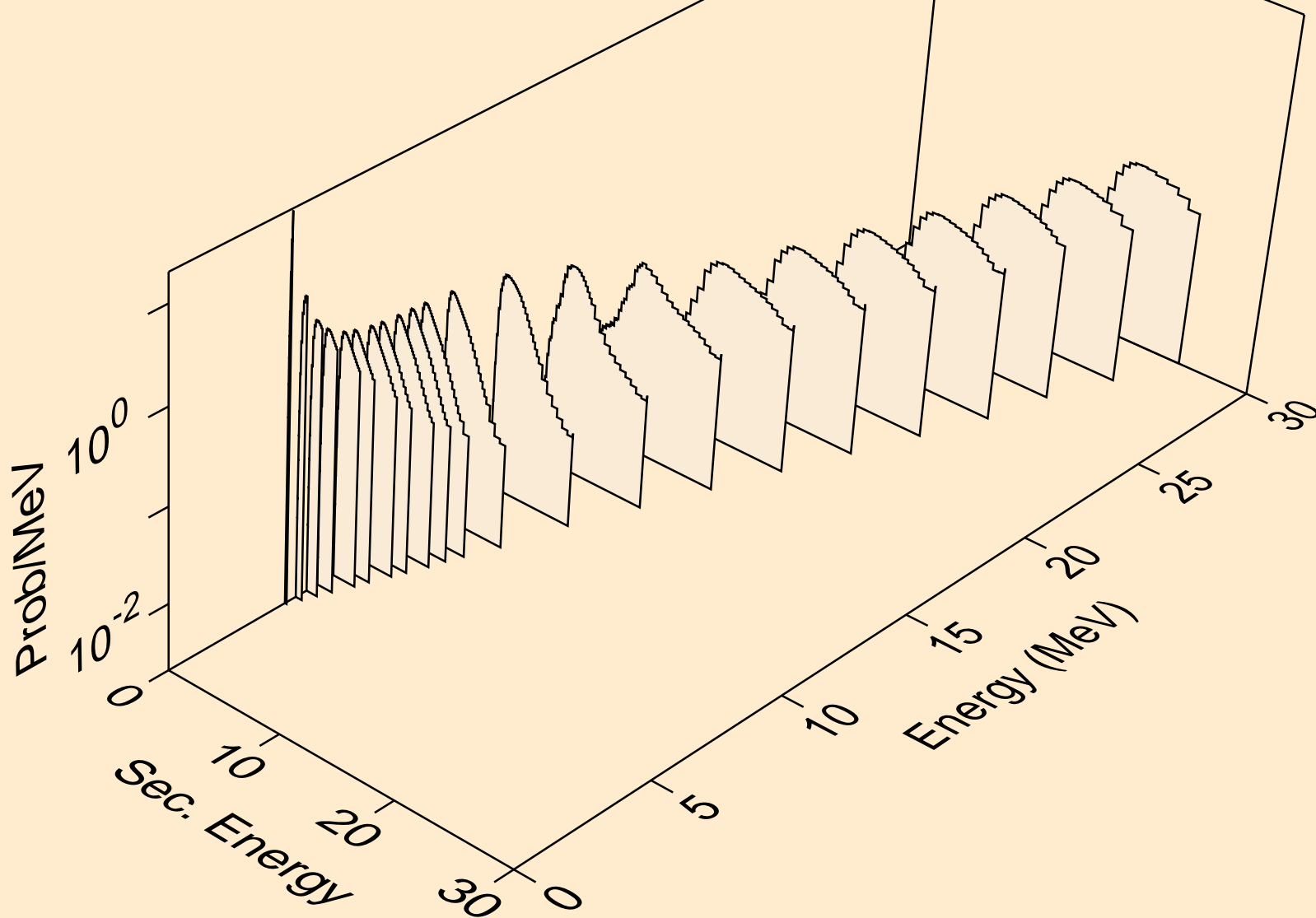
MAT=4019 ACE FILE PRODUCED AT NEA WITH NDEC
Neutron emission for (n,2np)



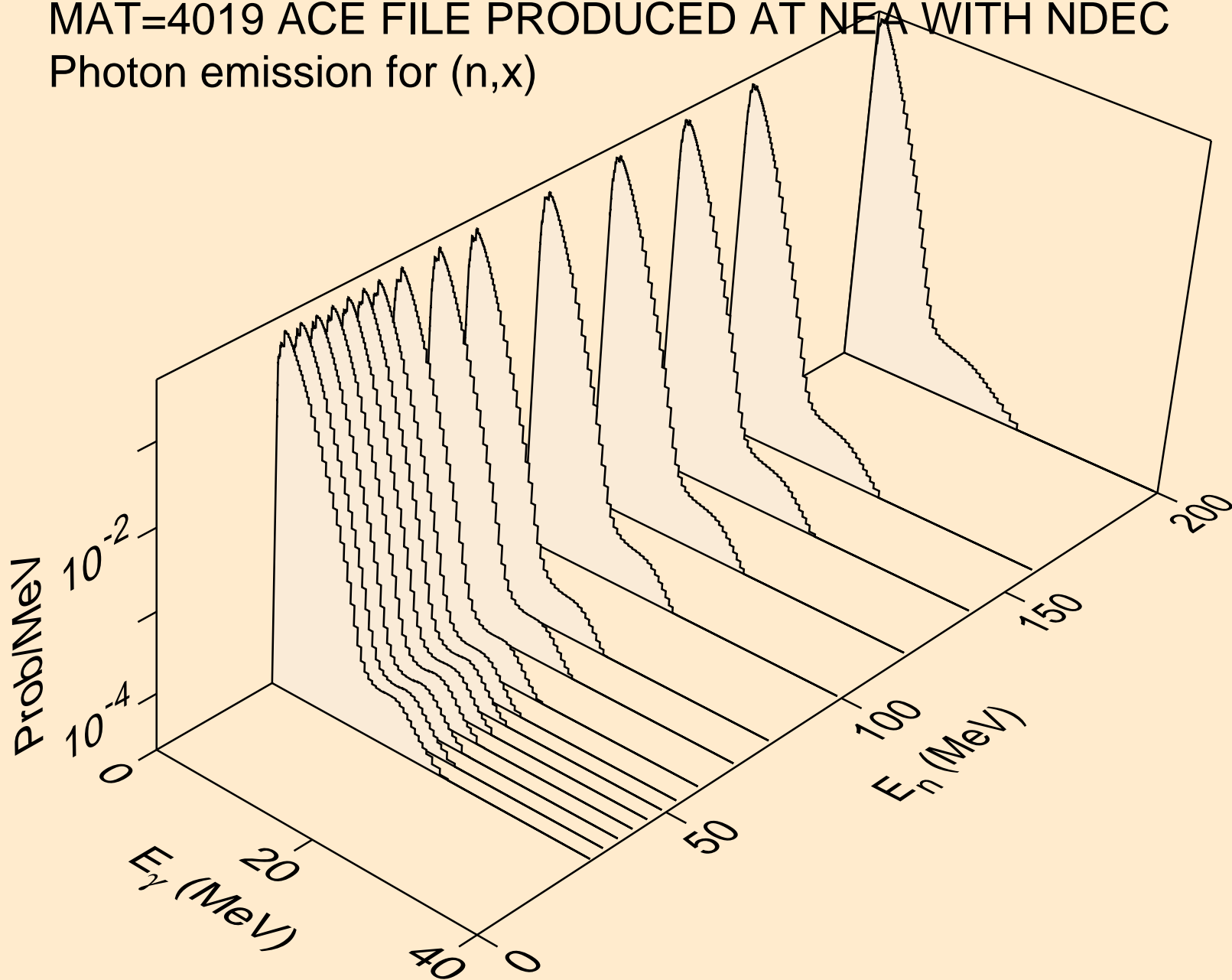
MAT=4019 ACE FILE PRODUCED AT NEA WITH NDEC
Neutron emission for (n,npa)



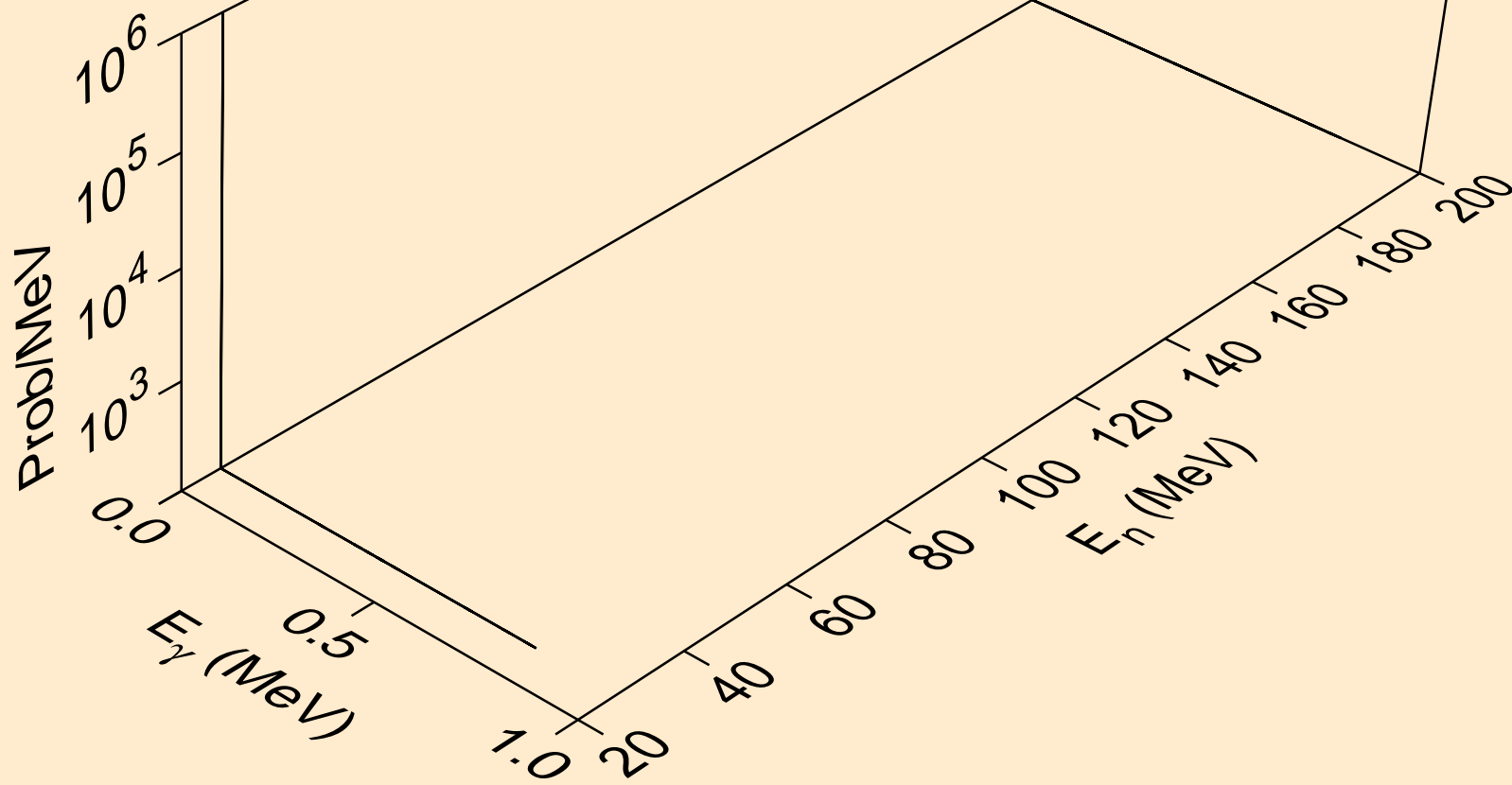
MAT=4019 ACE FILE PRODUCED AT NEA WITH NDEC
Neutron emission for (n,n*c)



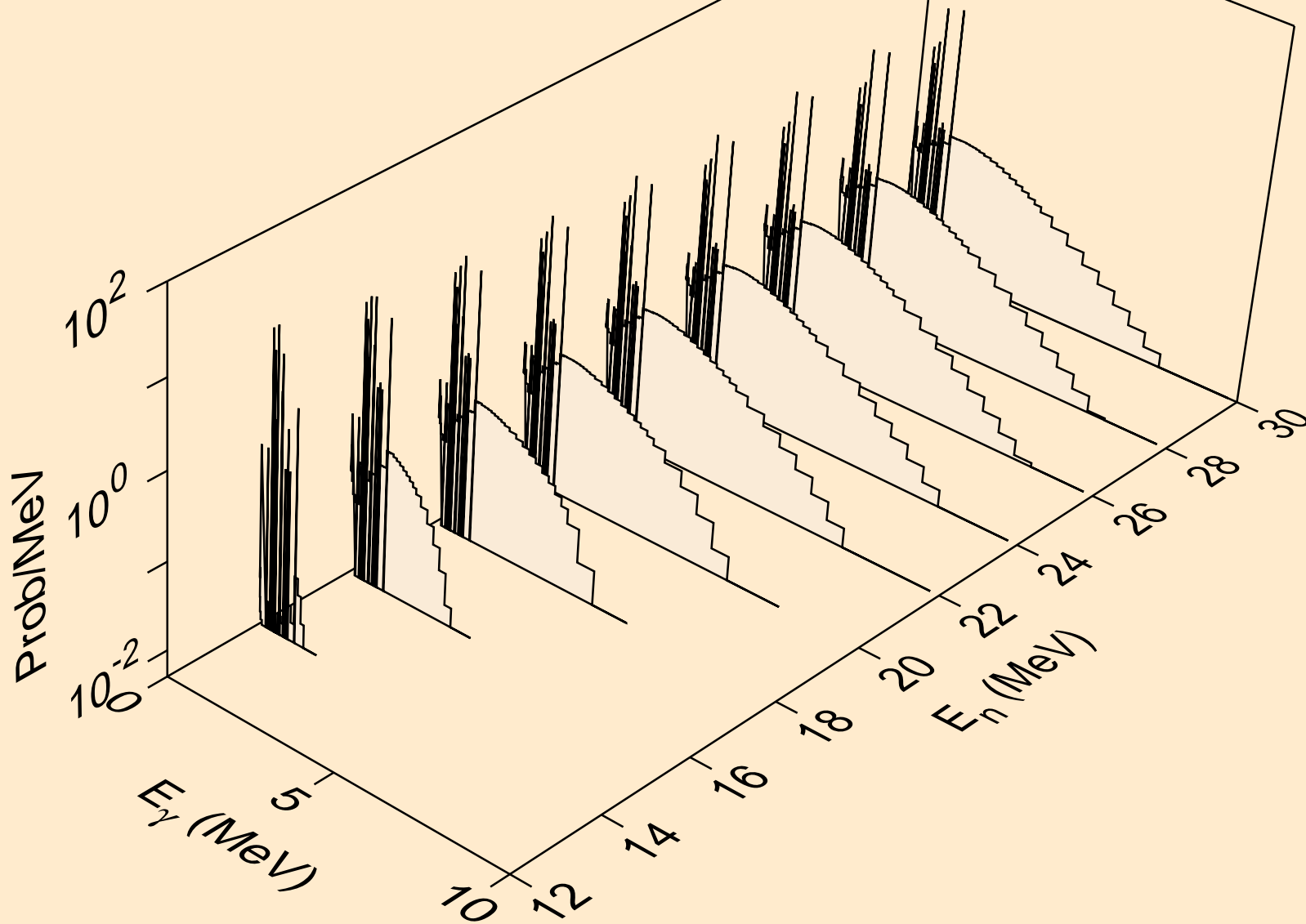
MAT=4019 ACE FILE PRODUCED AT NEA WITH NDEC
Photon emission for (n,x)



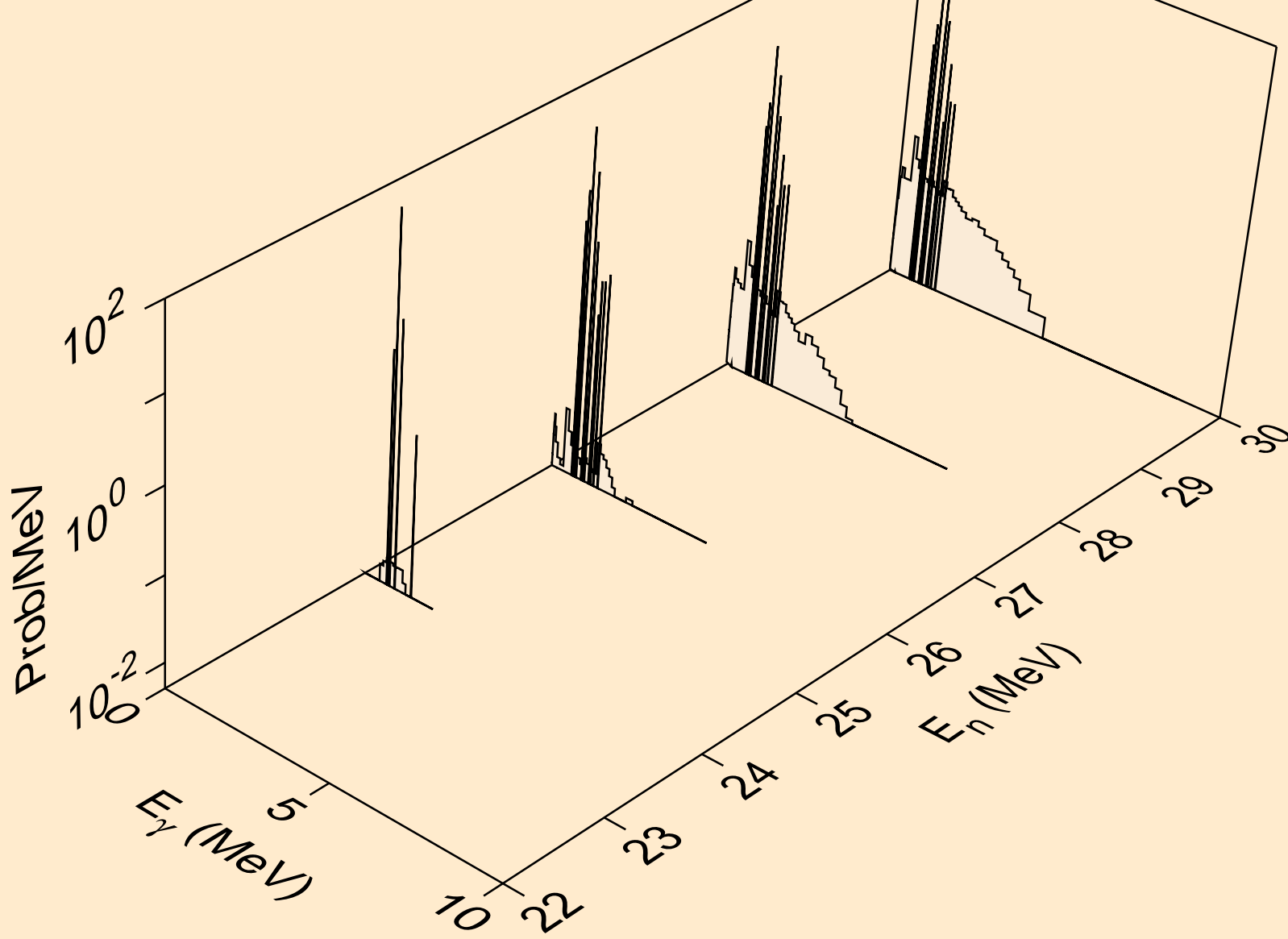
MAT=4019 ACE FILE PRODUCED AT NEA WITH NDEC
Photon emission for (n,2nd)



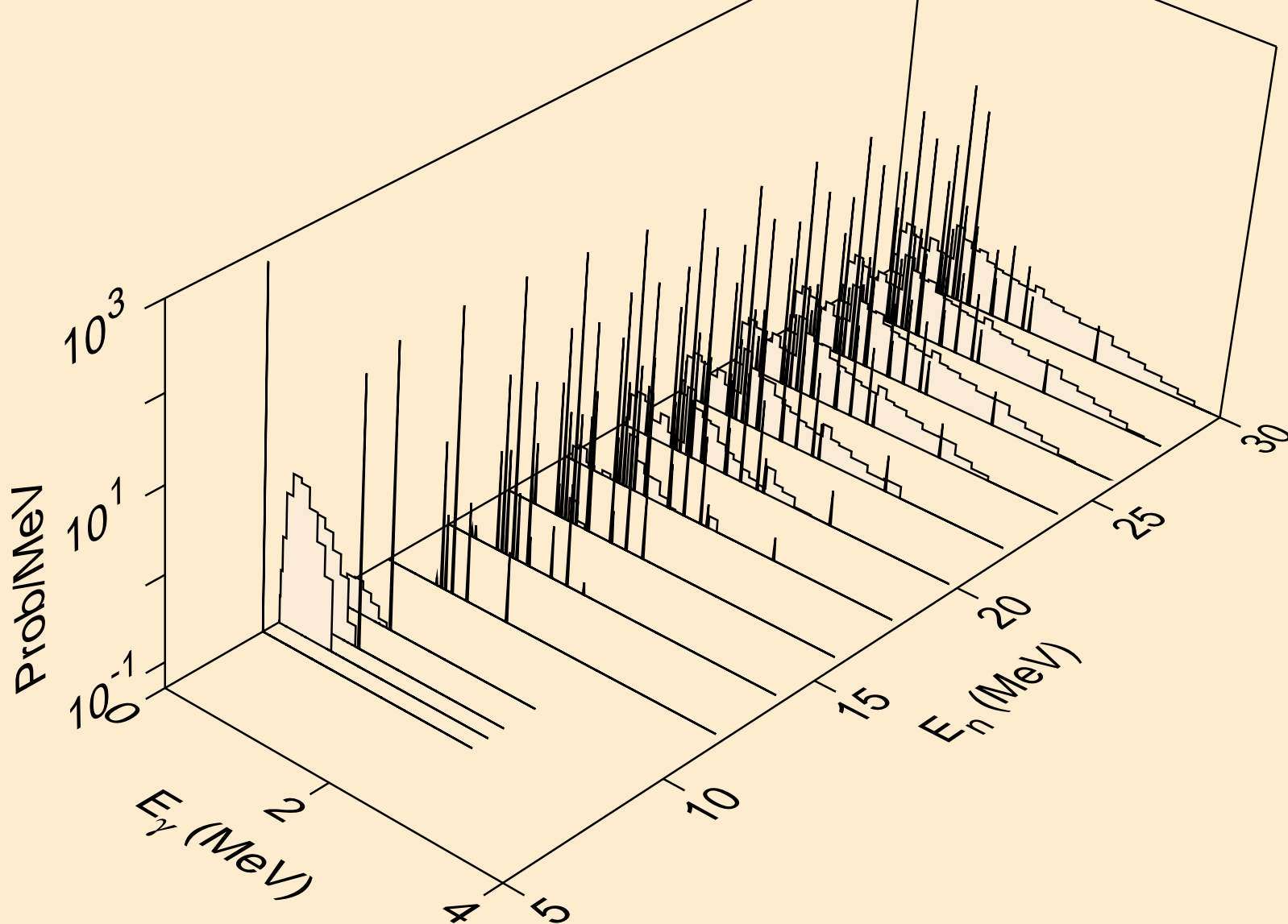
MAT=4019 ACE FILE PRODUCED AT NEA WITH NDEC
Photon emission for (n,2n)



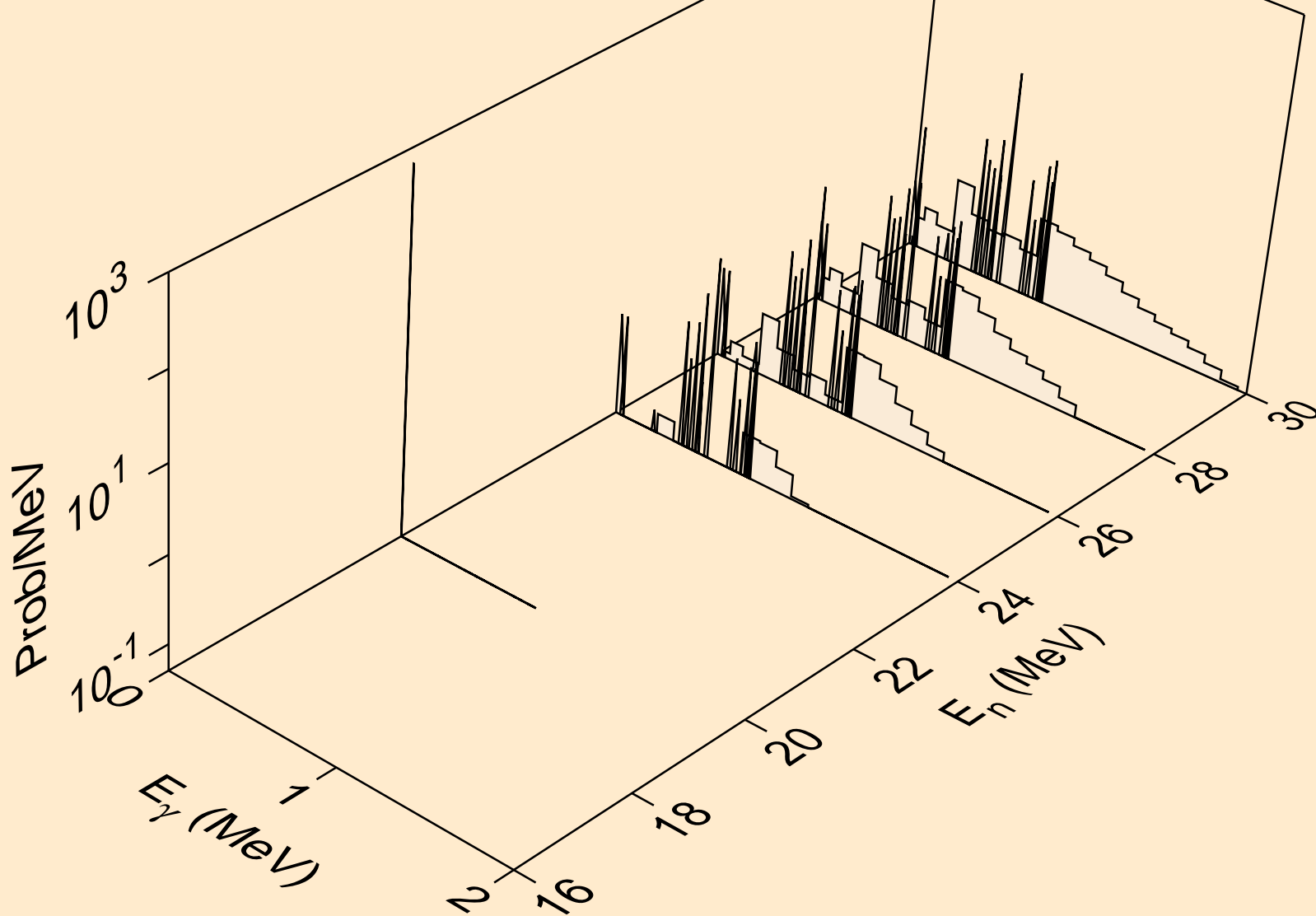
MAT=4019 ACE FILE PRODUCED AT NEA WITH NDEC
Photon emission for (n,3n)



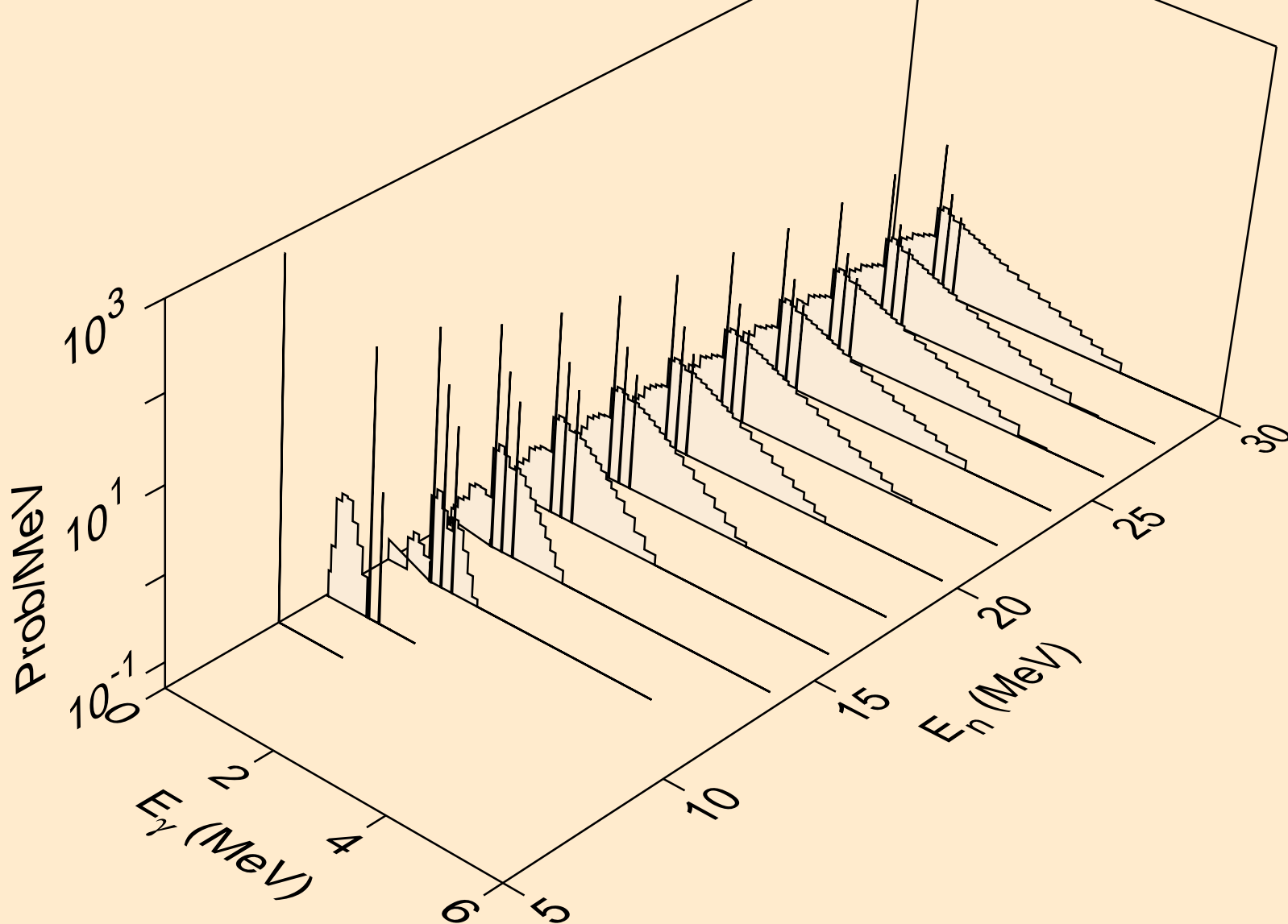
MAT=4019 ACE FILE PRODUCED AT NEA WITH NDEC
Photon emission for (n,n*)a



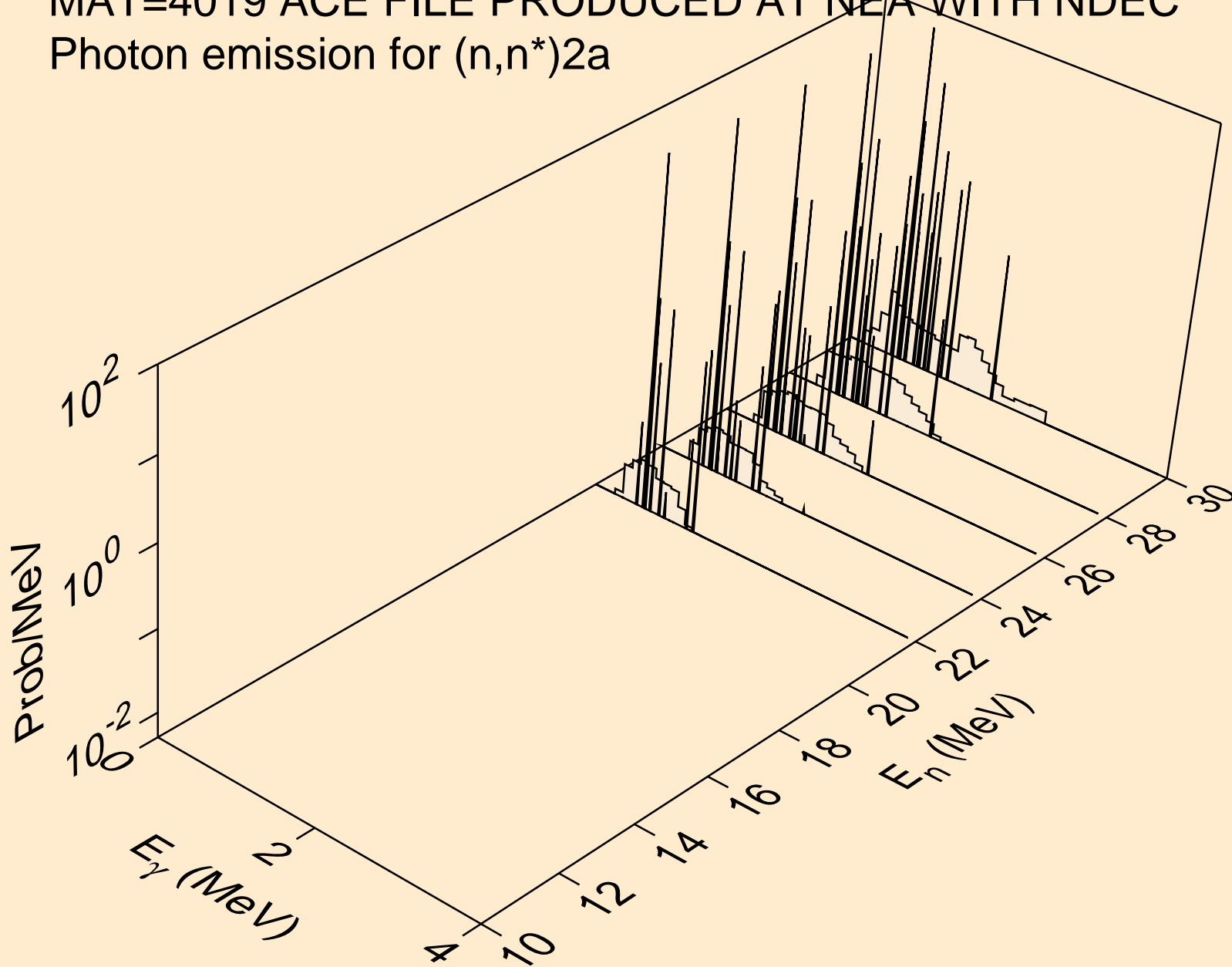
MAT=4019 ACE FILE PRODUCED AT NEA WITH NDEC
Photon emission for (n,2n)a



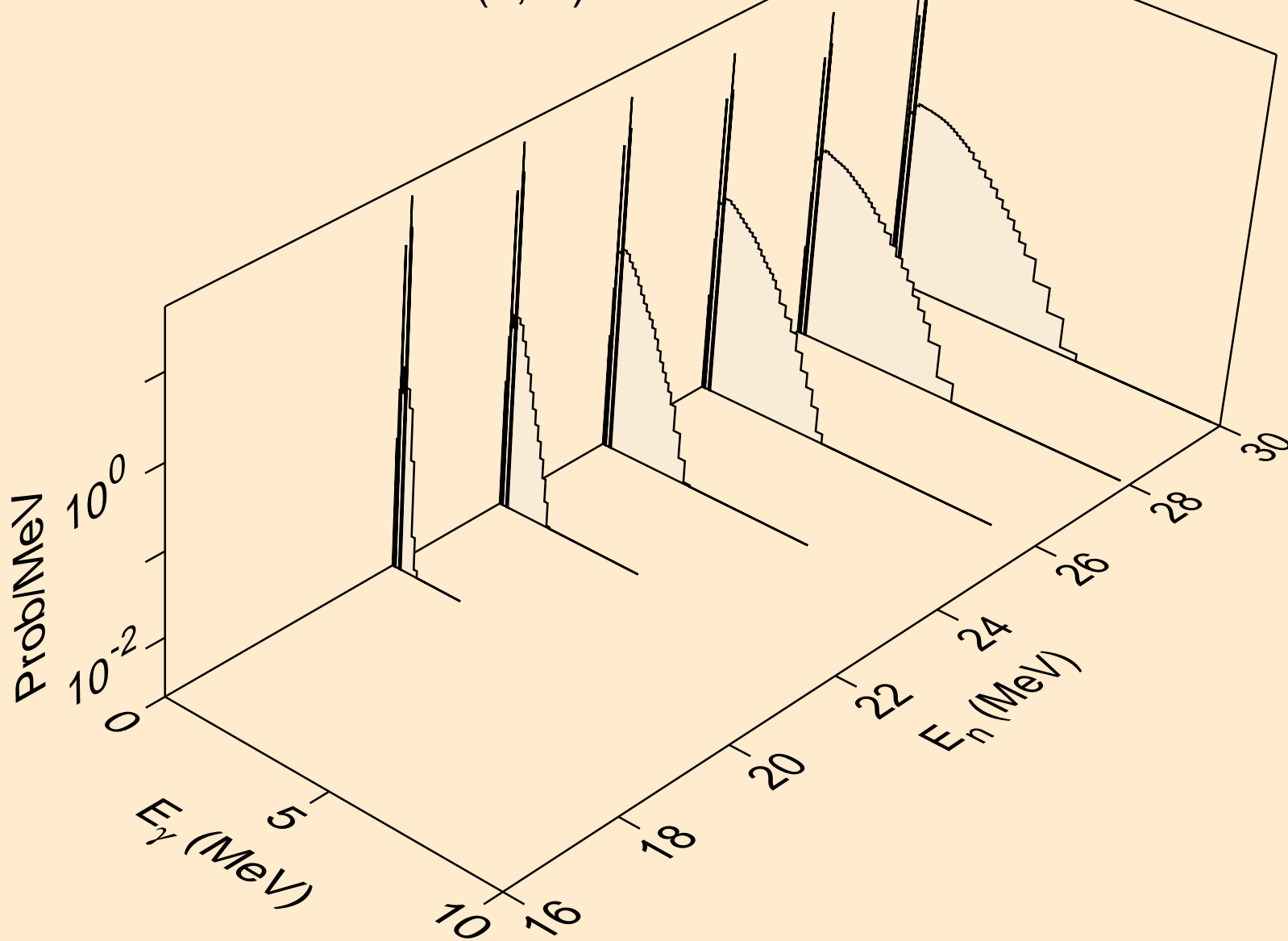
MAT=4019 ACE FILE PRODUCED AT NEA WITH NDEC
Photon emission for (n,n*)p



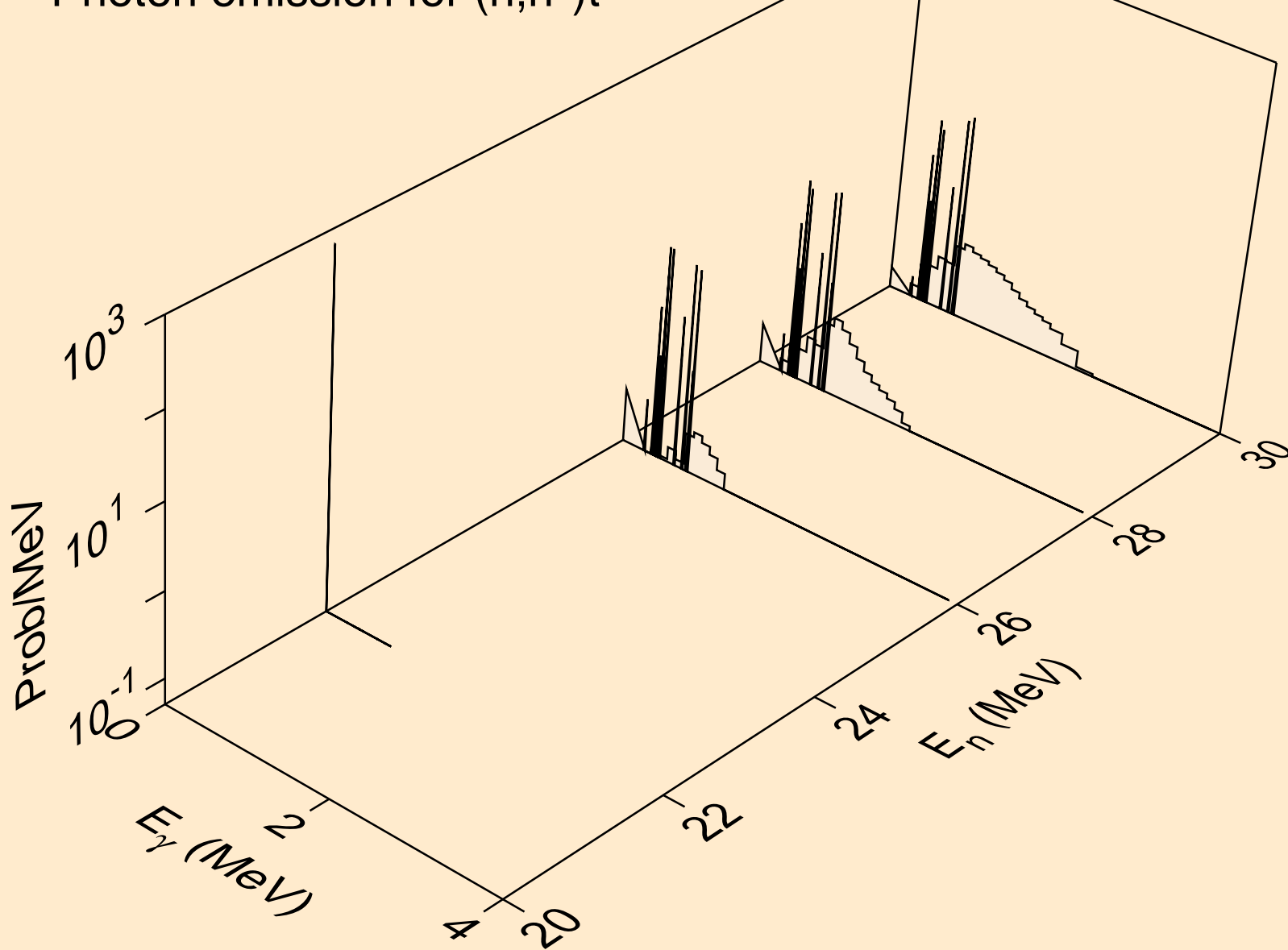
MAT=4019 ACE FILE PRODUCED AT NEA WITH NDEC
Photon emission for (n,n*)2a



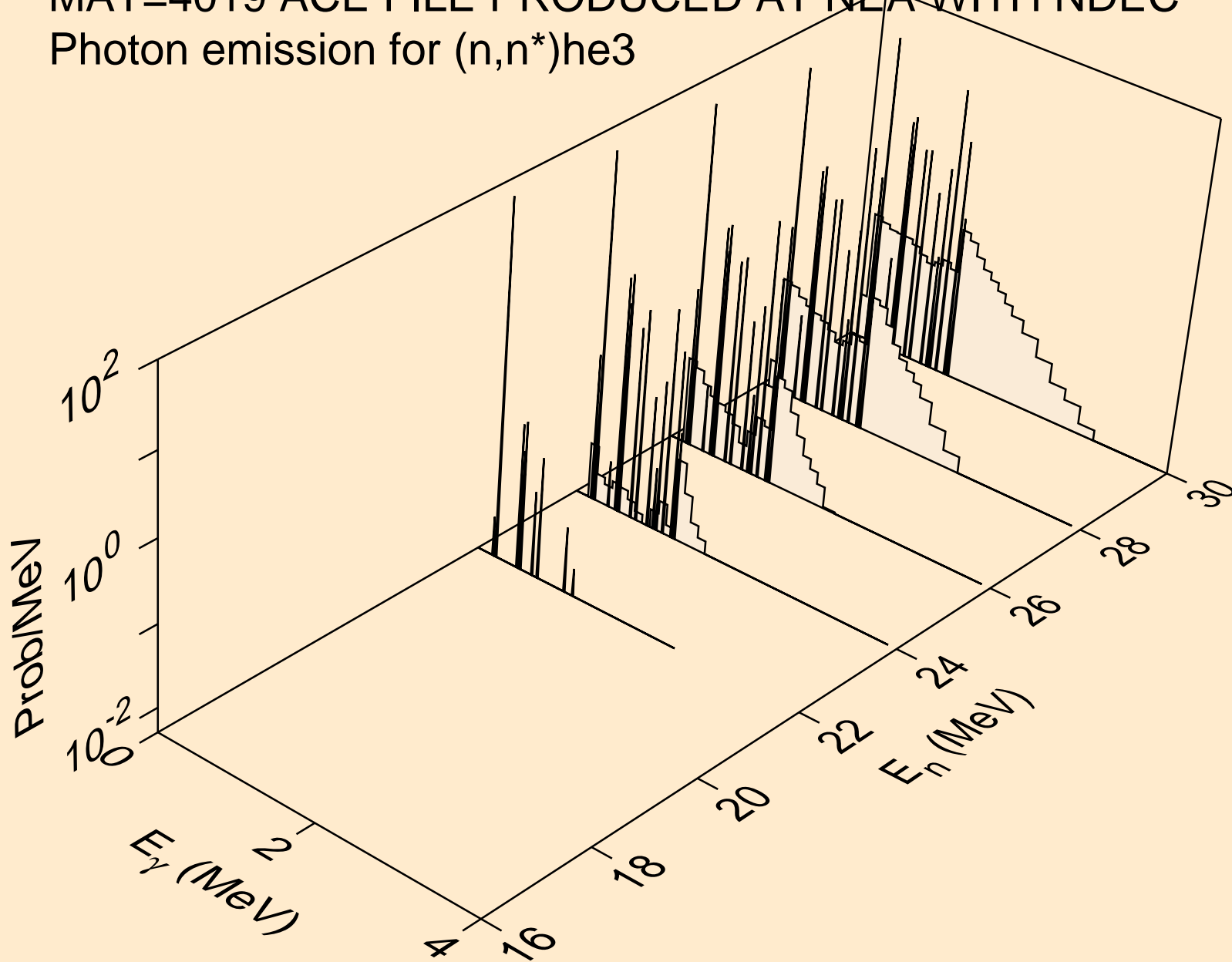
MAT=4019 ACE FILE PRODUCED AT NEA WITH NDEC
Photon emission for (n,n*)d



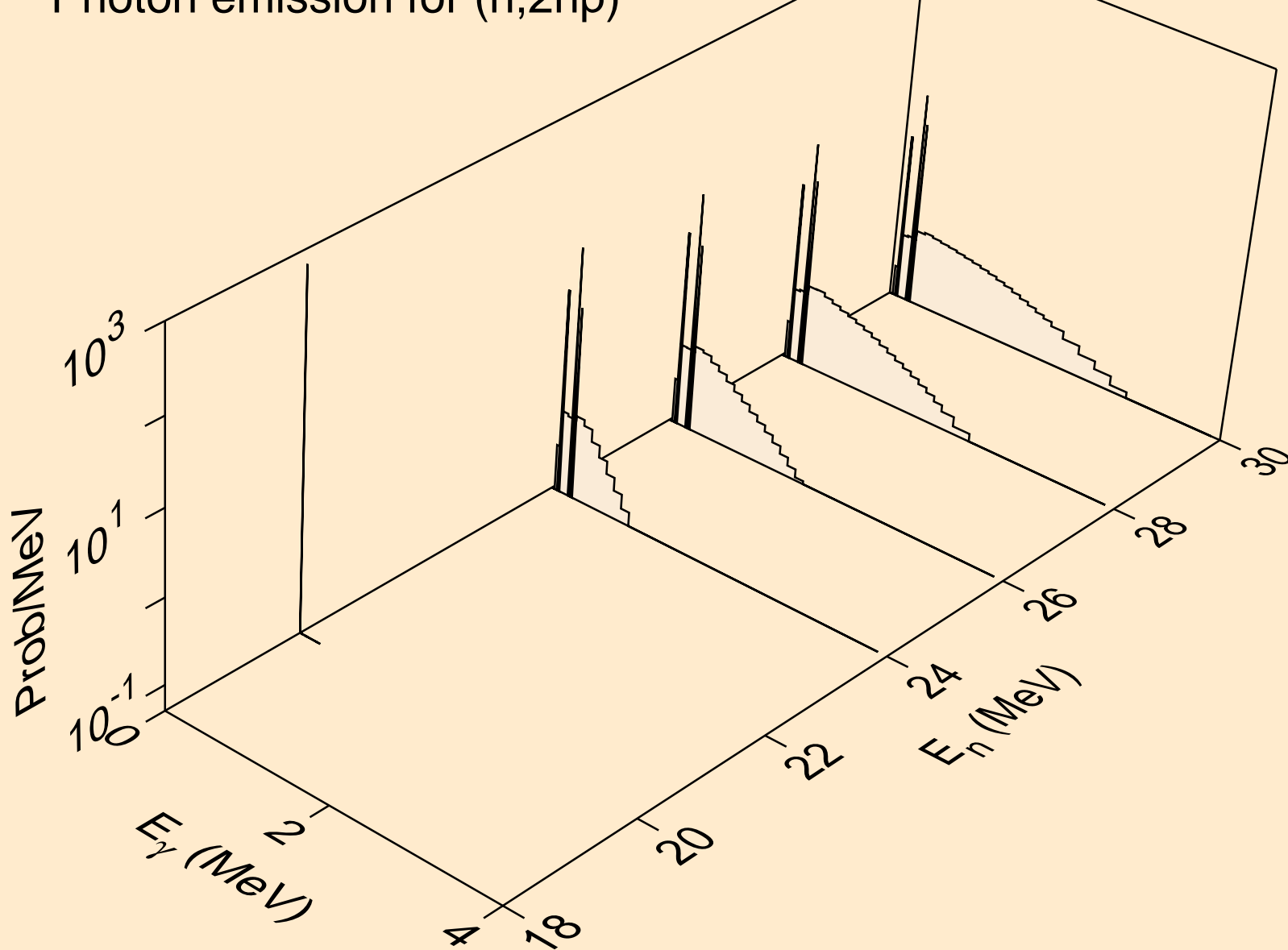
MAT=4019 ACE FILE PRODUCED AT NEA WITH NDEC
Photon emission for (n,n*)t



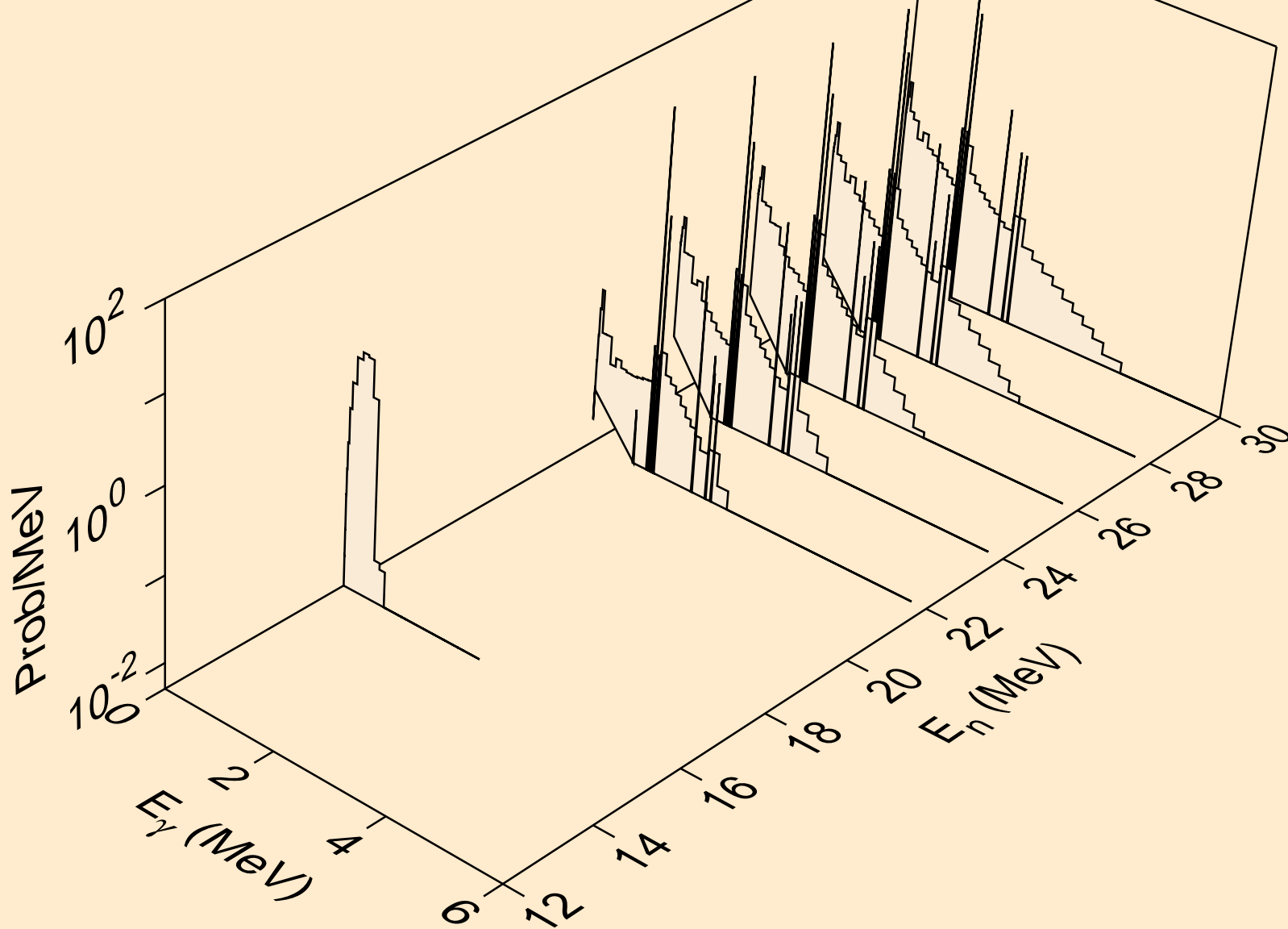
MAT=4019 ACE FILE PRODUCED AT NEA WITH NDEC
Photon emission for (n,n*)he3



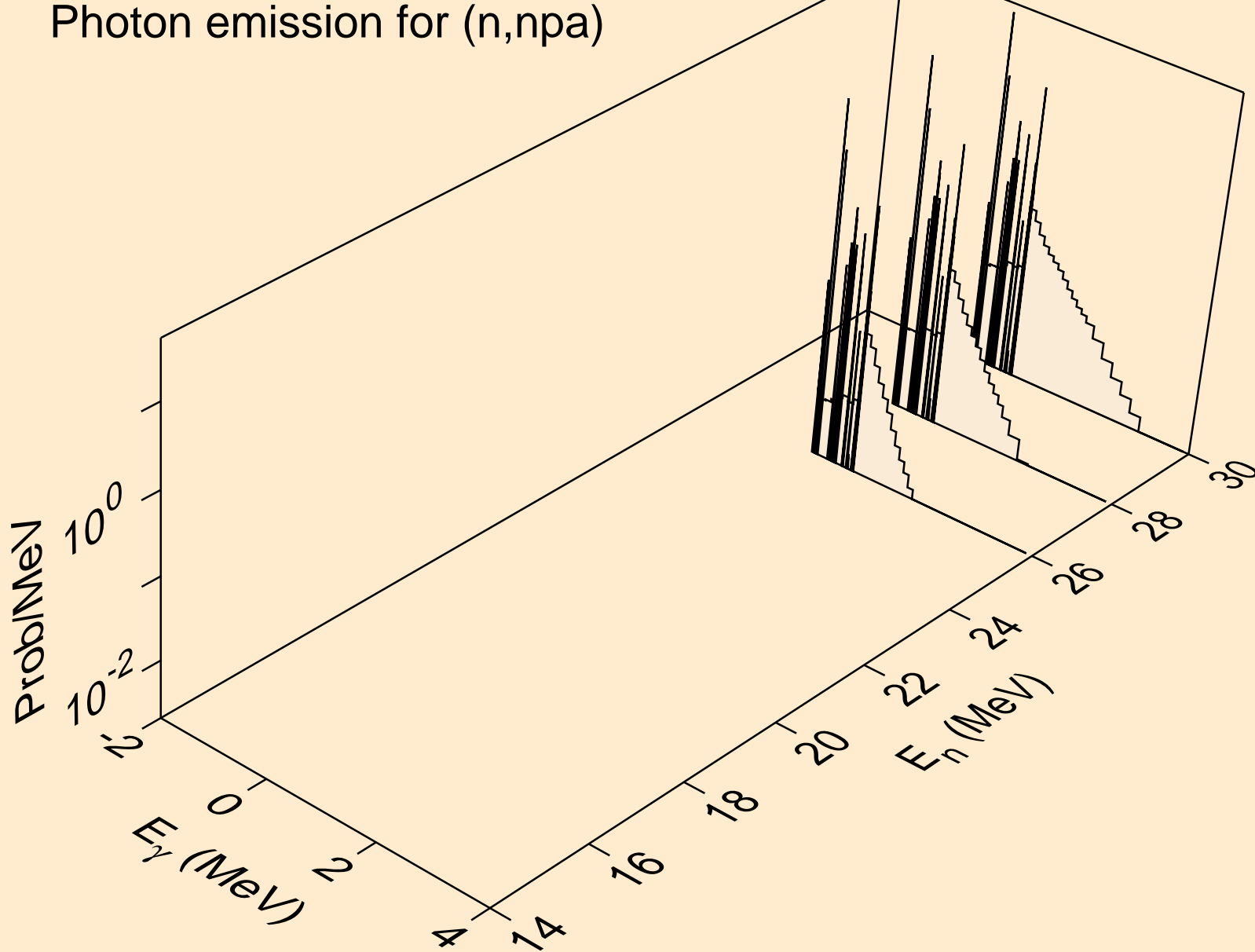
MAT=4019 ACE FILE PRODUCED AT NEA WITH NDEC
Photon emission for (n,2np)



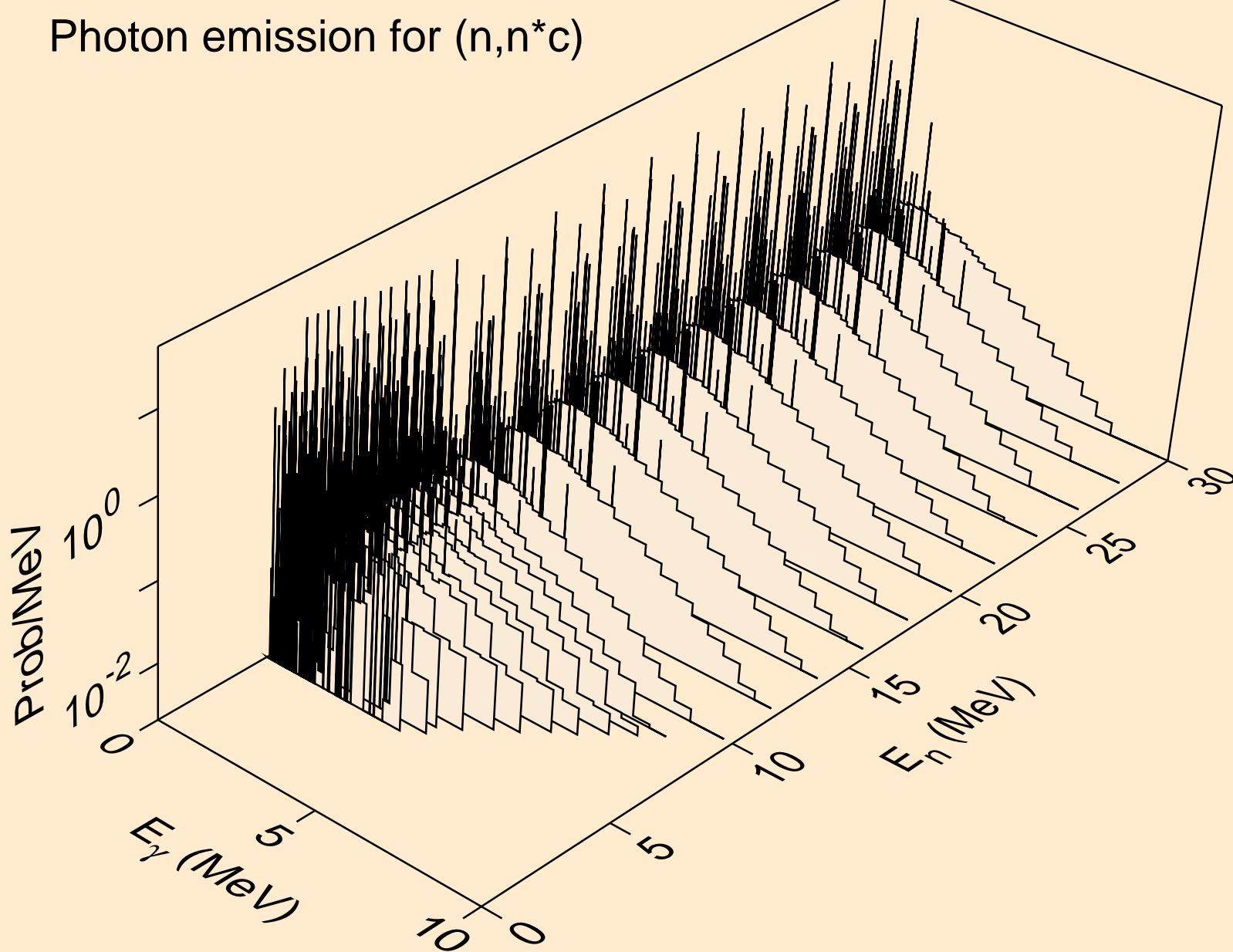
MAT=4019 ACE FILE PRODUCED AT NEA WITH NDEC
Photon emission for (n,2np)



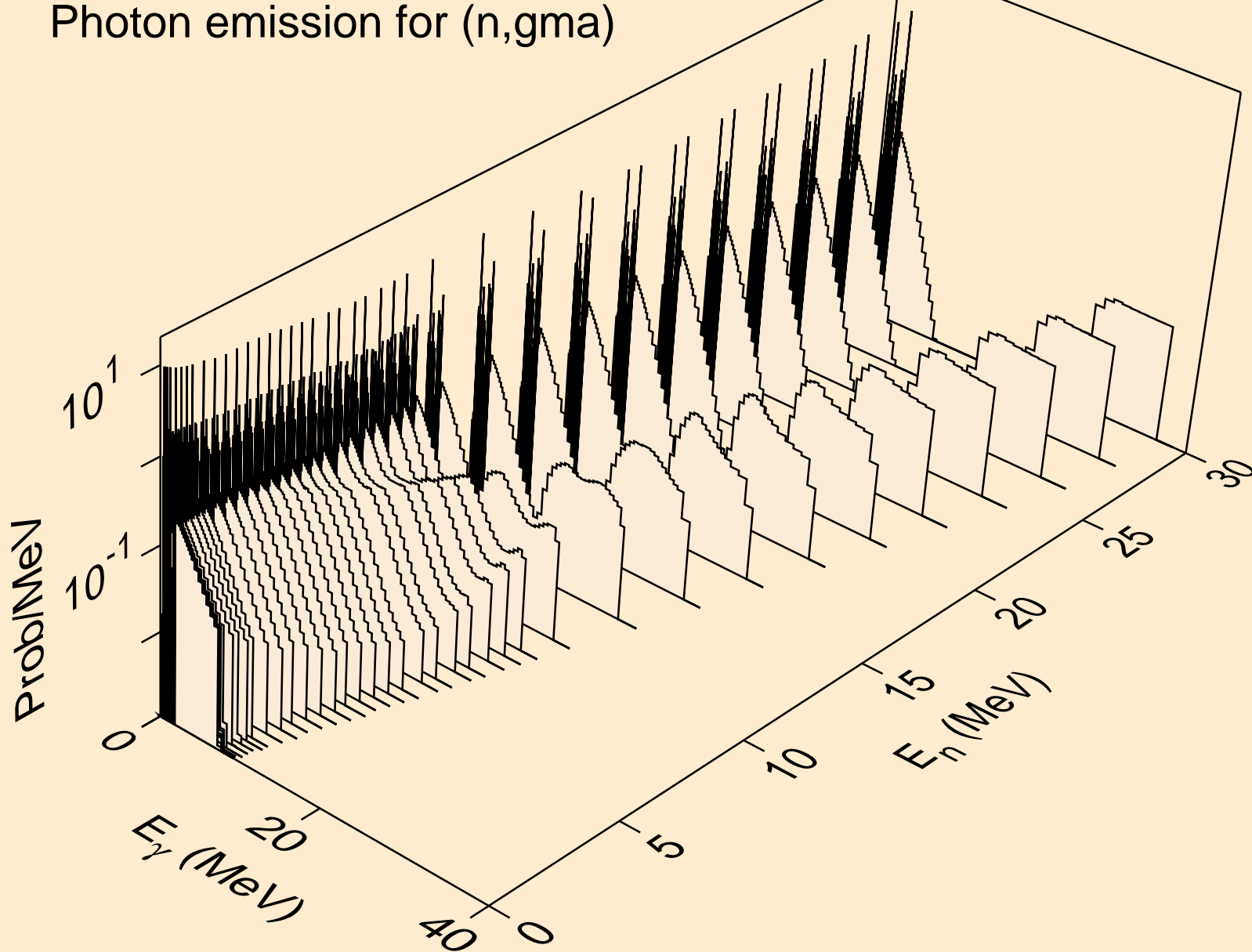
MAT=4019 ACE FILE PRODUCED AT NEA WITH NDEC
Photon emission for (n,npa)



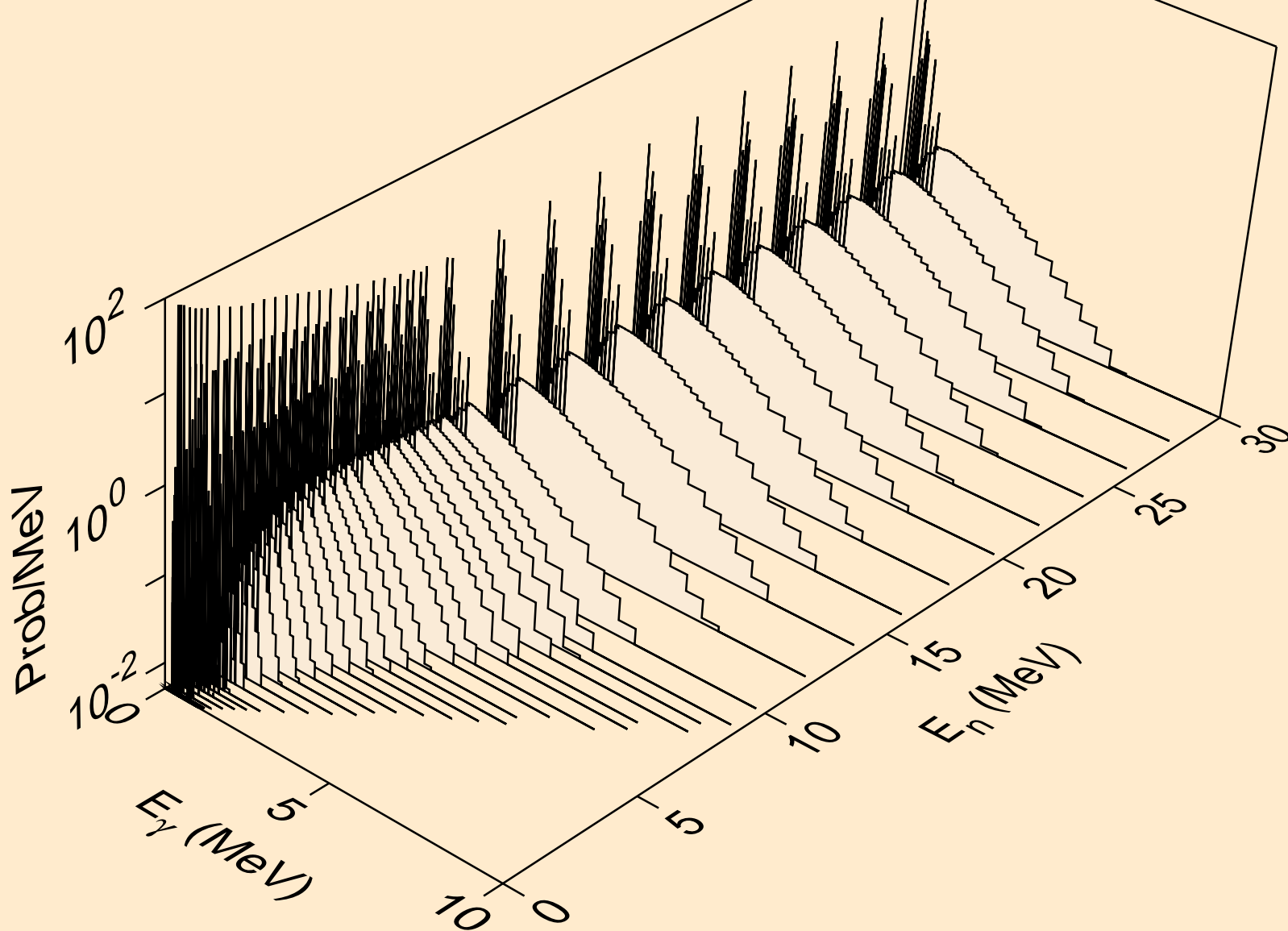
MAT=4019 ACE FILE PRODUCED AT NEA WITH NDEC
Photon emission for (n,n*c)



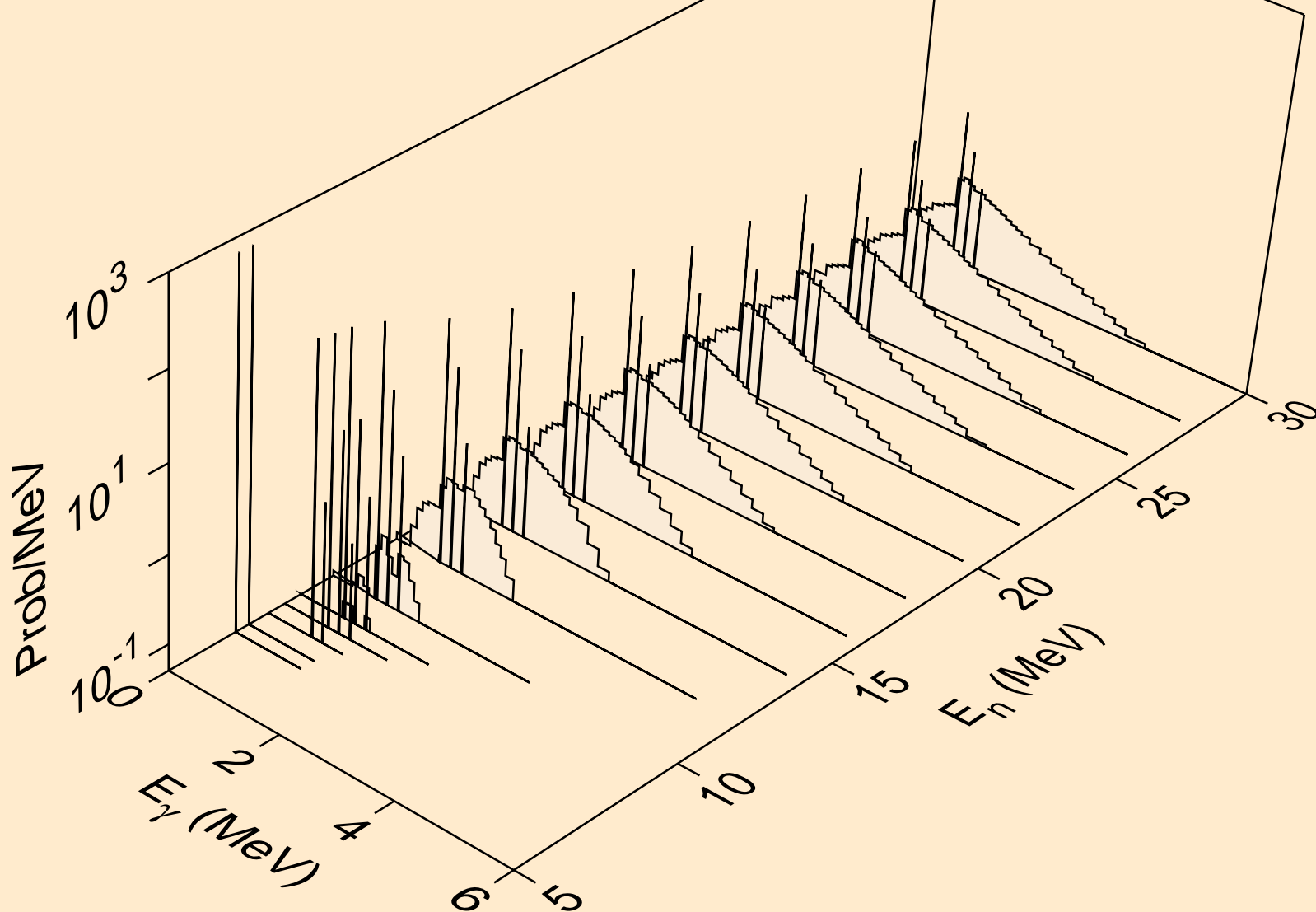
MAT=4019 ACE FILE PRODUCED AT NEA WITH NDEC
Photon emission for (n,gma)



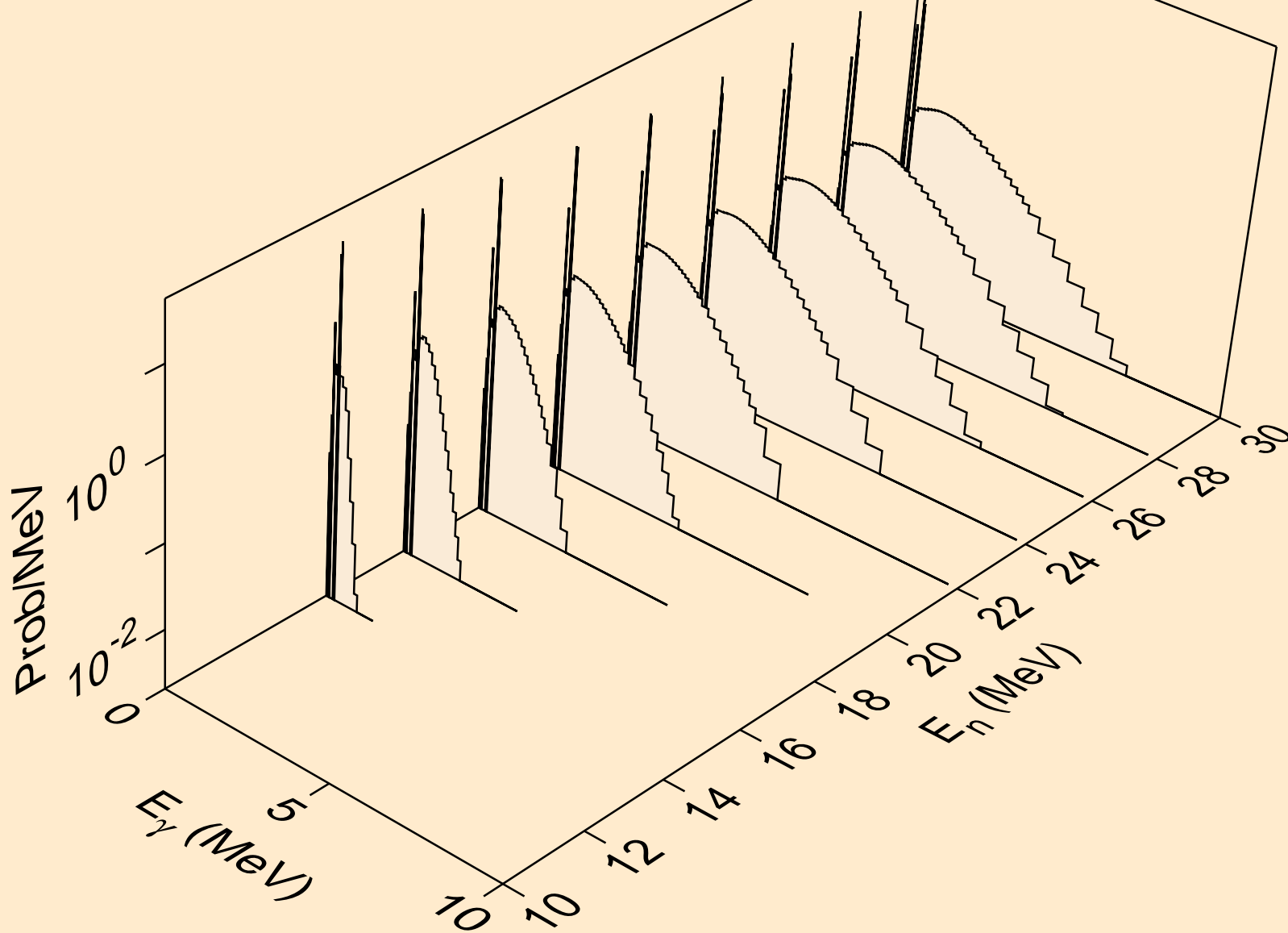
MAT=4019 ACE FILE PRODUCED AT NEA WITH NDEC
Photon emission for (n,p)



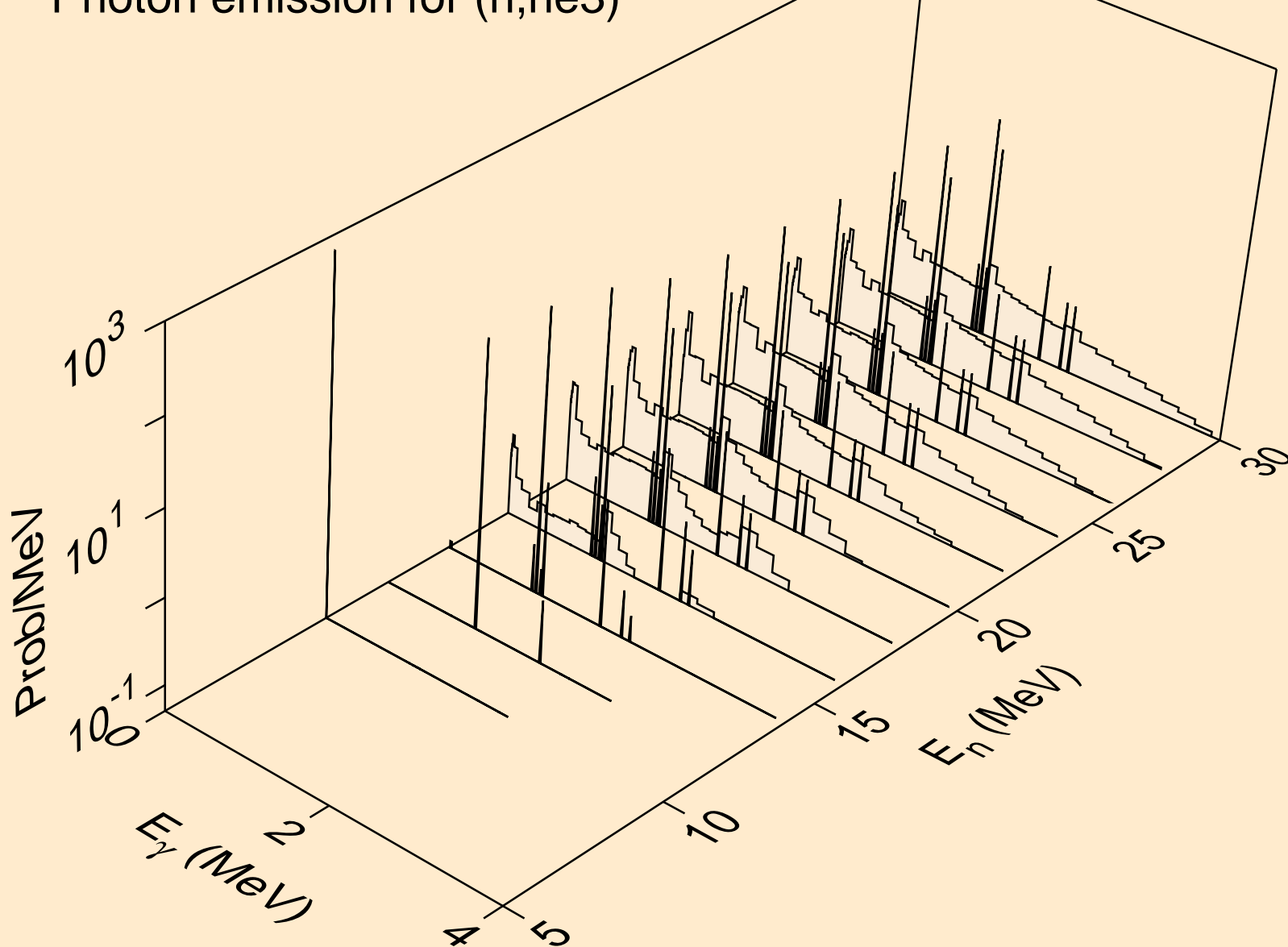
MAT=4019 ACE FILE PRODUCED AT NEA WITH NDEC
Photon emission for (n,d)



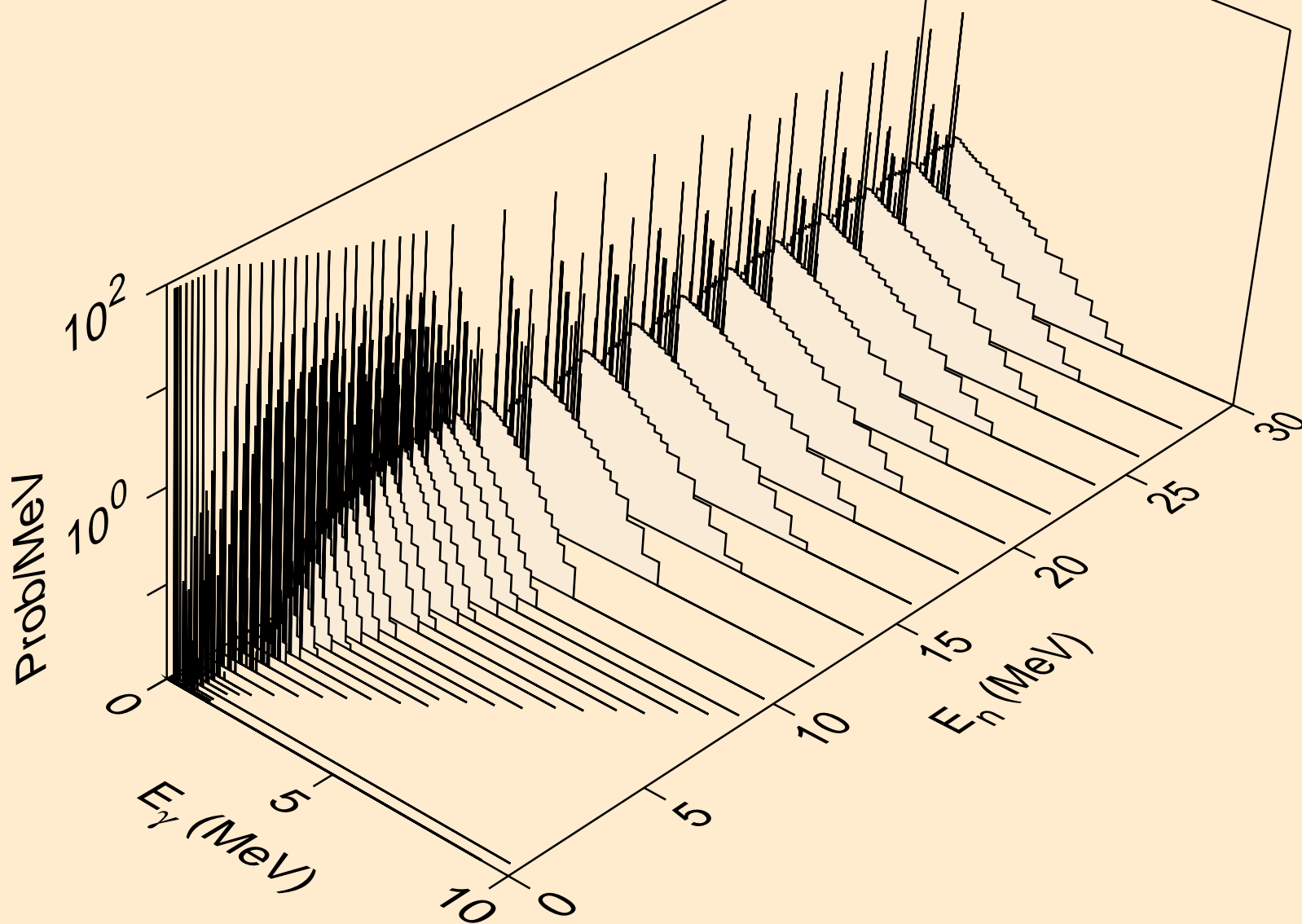
MAT=4019 ACE FILE PRODUCED AT NEA WITH NDEC
Photon emission for (n,t)



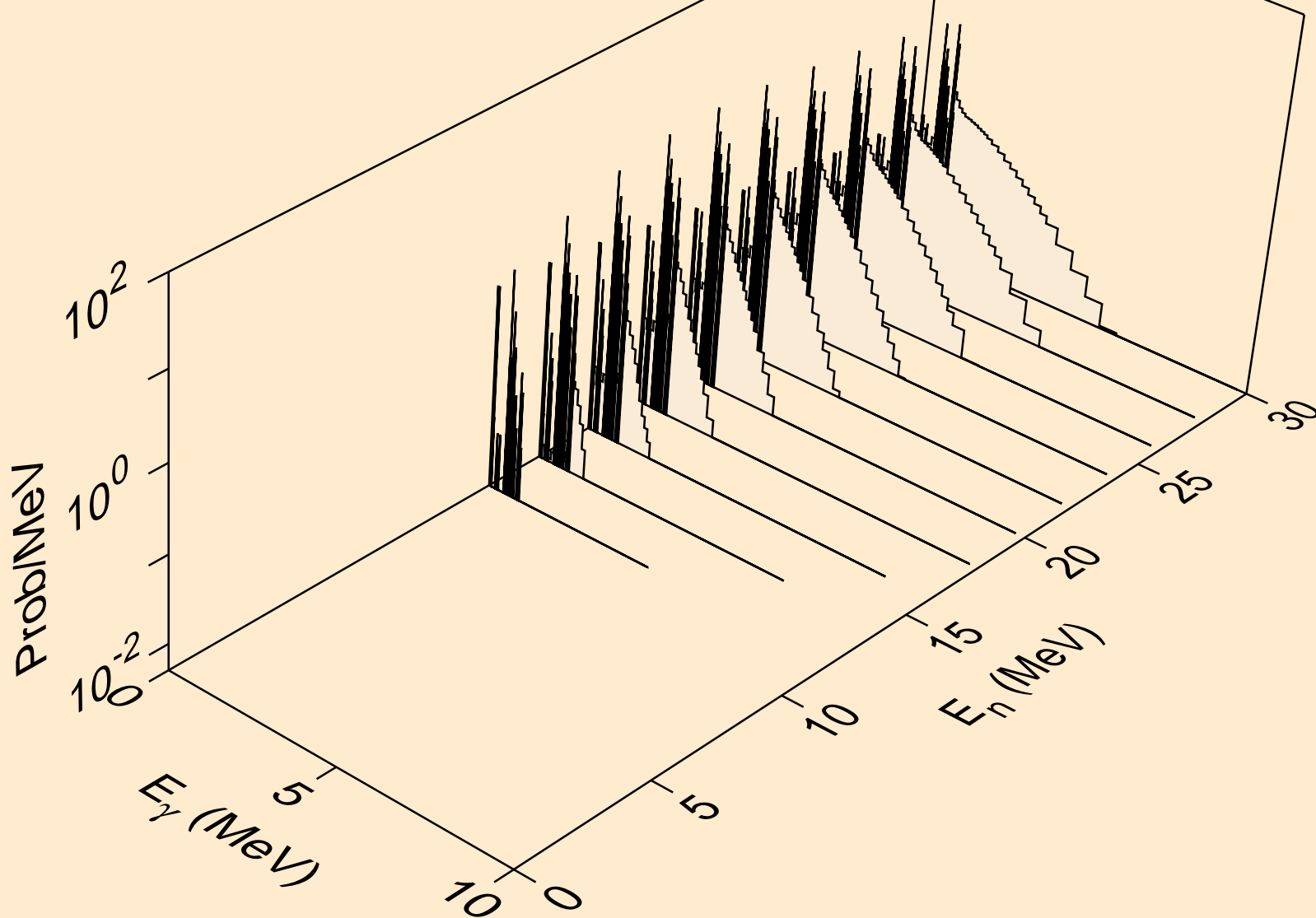
MAT=4019 ACE FILE PRODUCED AT NEA WITH NDEC
Photon emission for (n,he3)



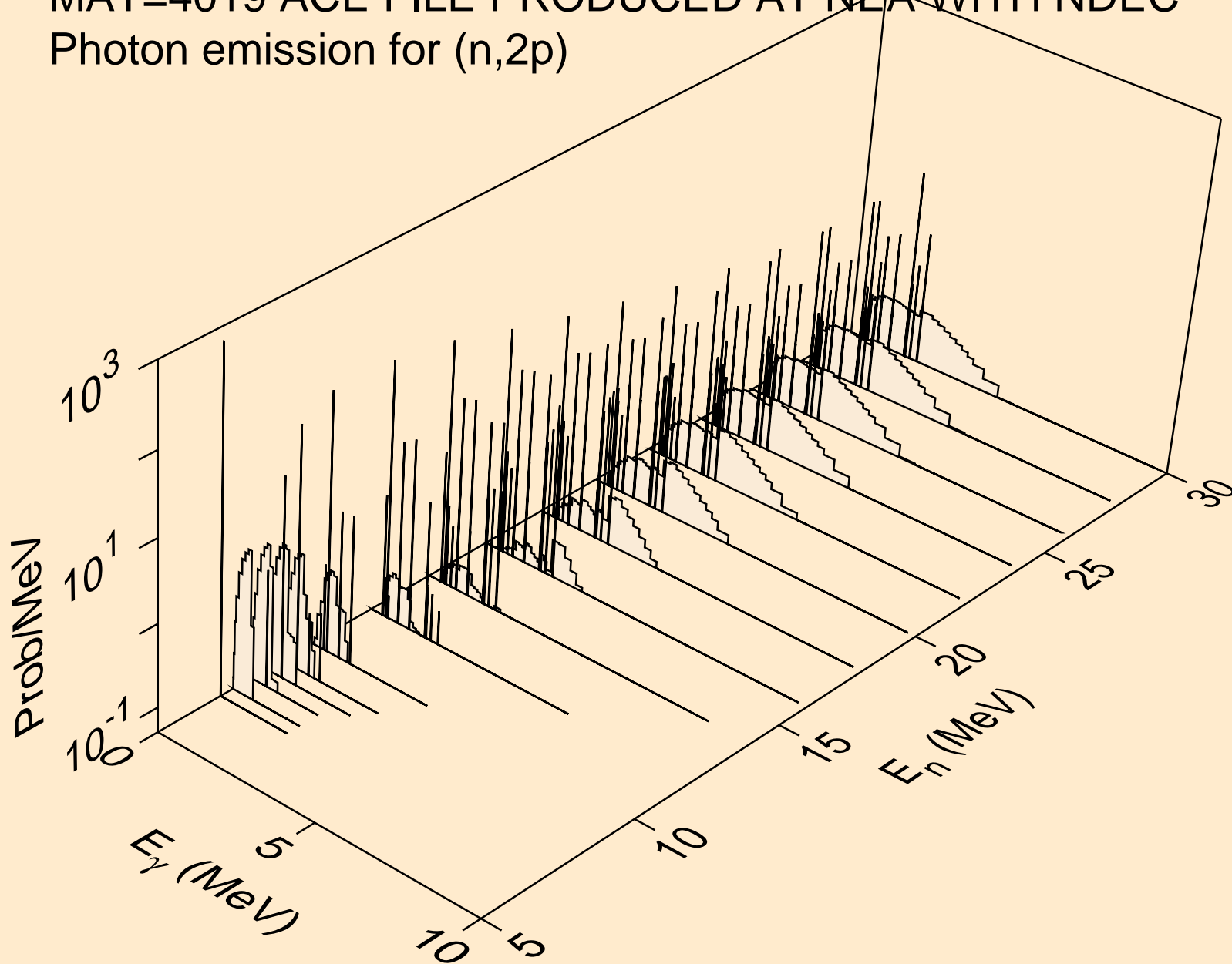
MAT=4019 ACE FILE PRODUCED AT NEA WITH NDEC
Photon emission for (n,a)



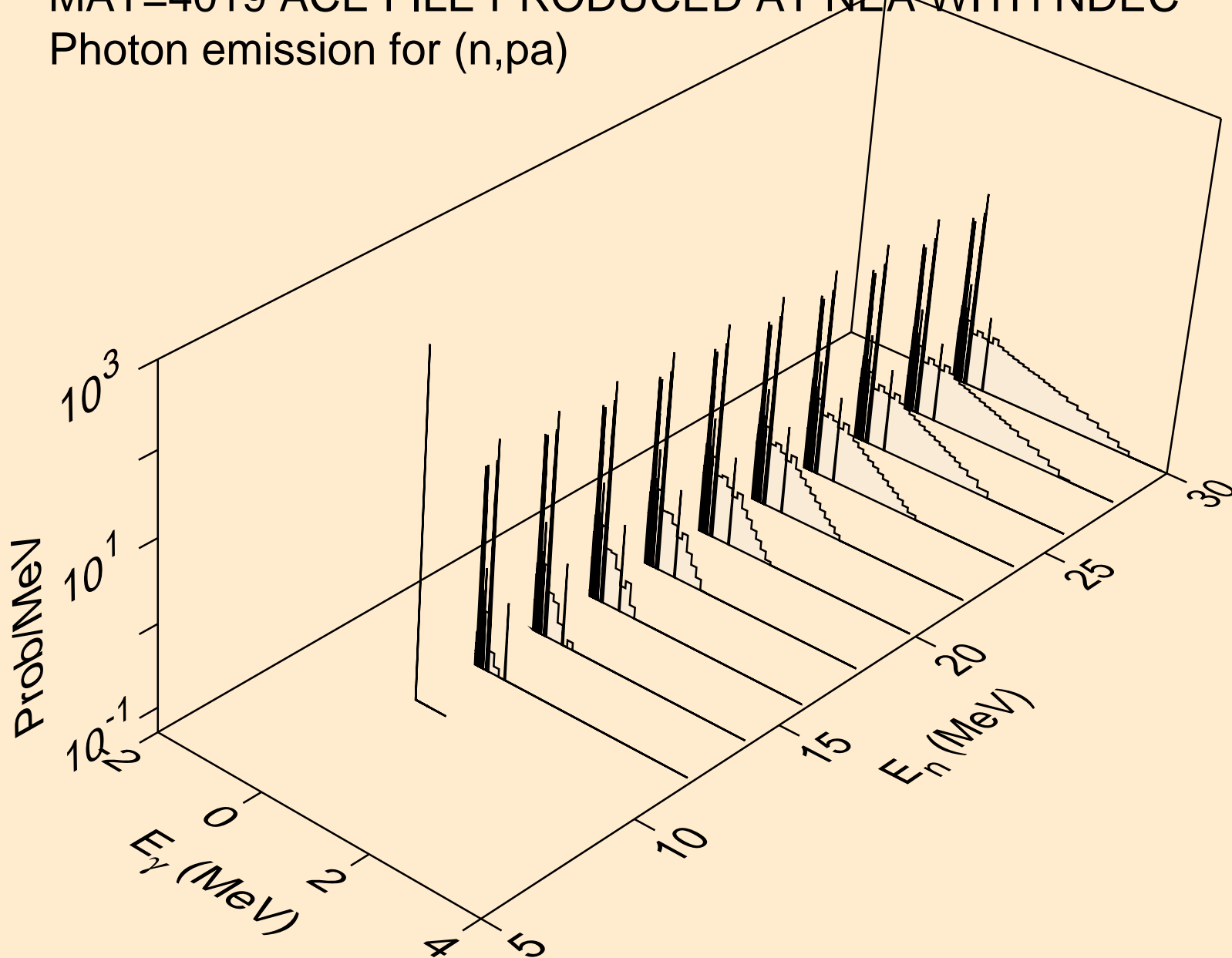
MAT=4019 ACE FILE PRODUCED AT NEA WITH NDEC
Photon emission for (n,2a)



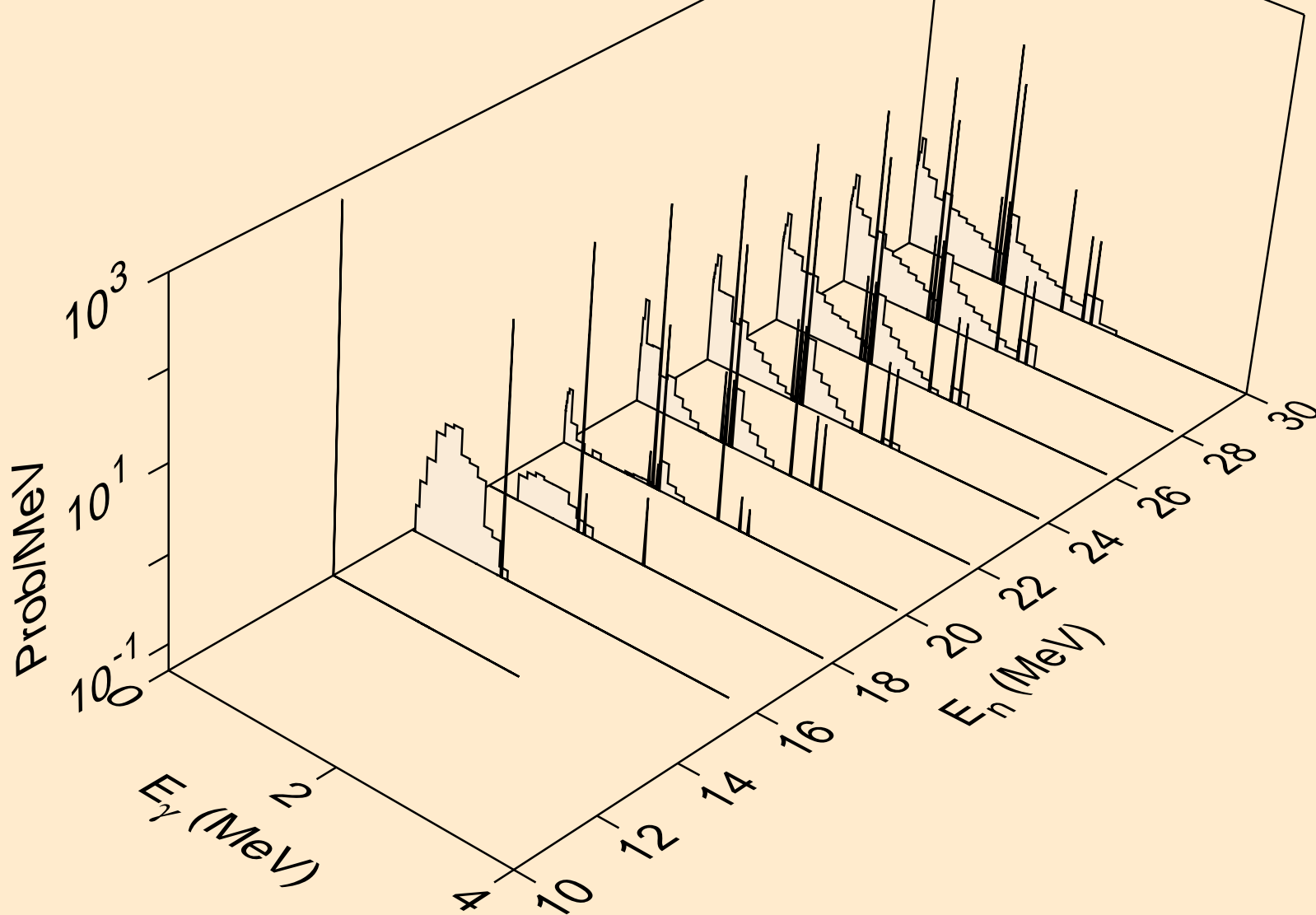
MAT=4019 ACE FILE PRODUCED AT NEA WITH NDEC
Photon emission for (n,2p)



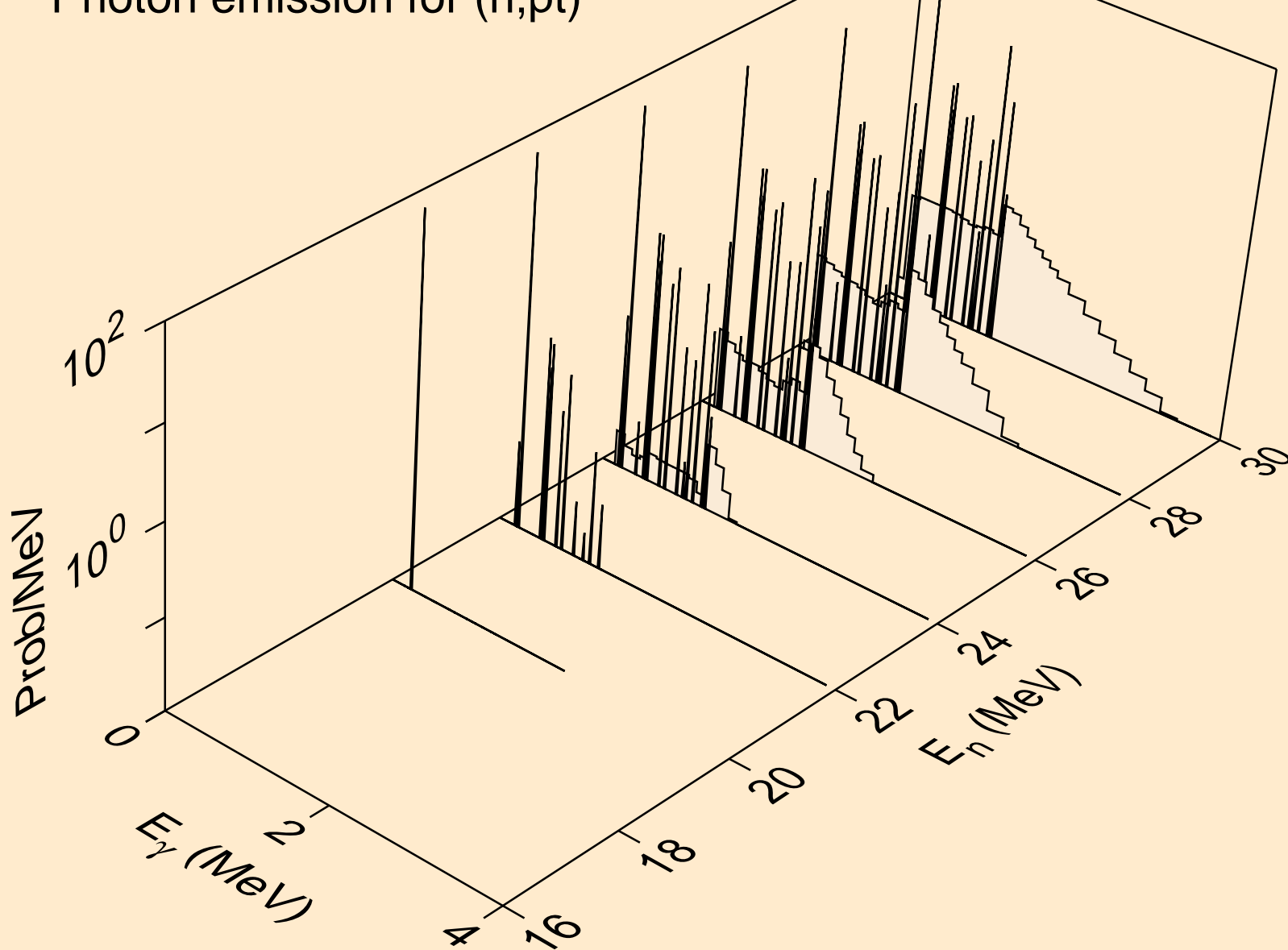
MAT=4019 ACE FILE PRODUCED AT NEA WITH NDEC
Photon emission for (n,pa)



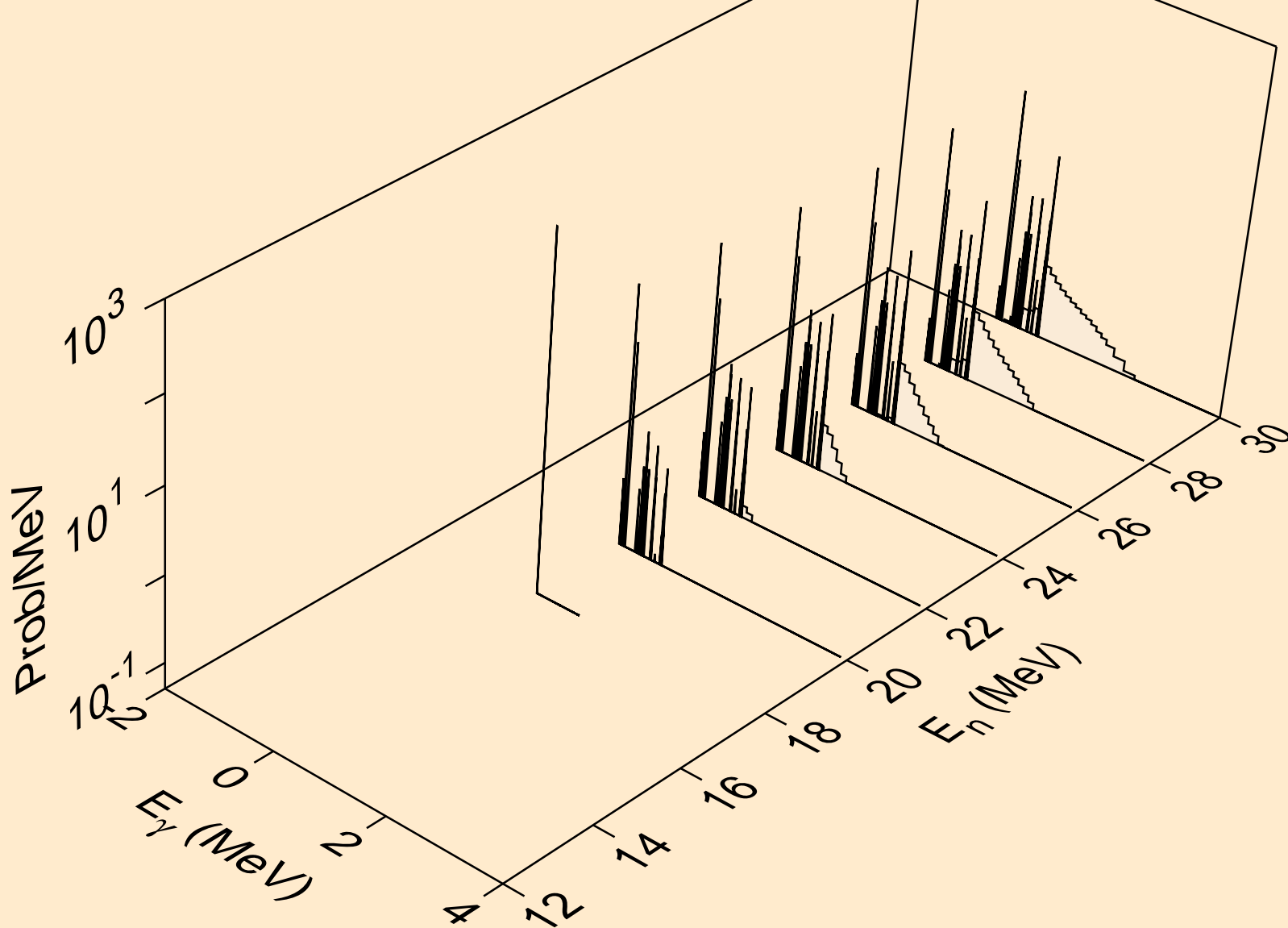
MAT=4019 ACE FILE PRODUCED AT NEA WITH NDEC
Photon emission for (n,pd)



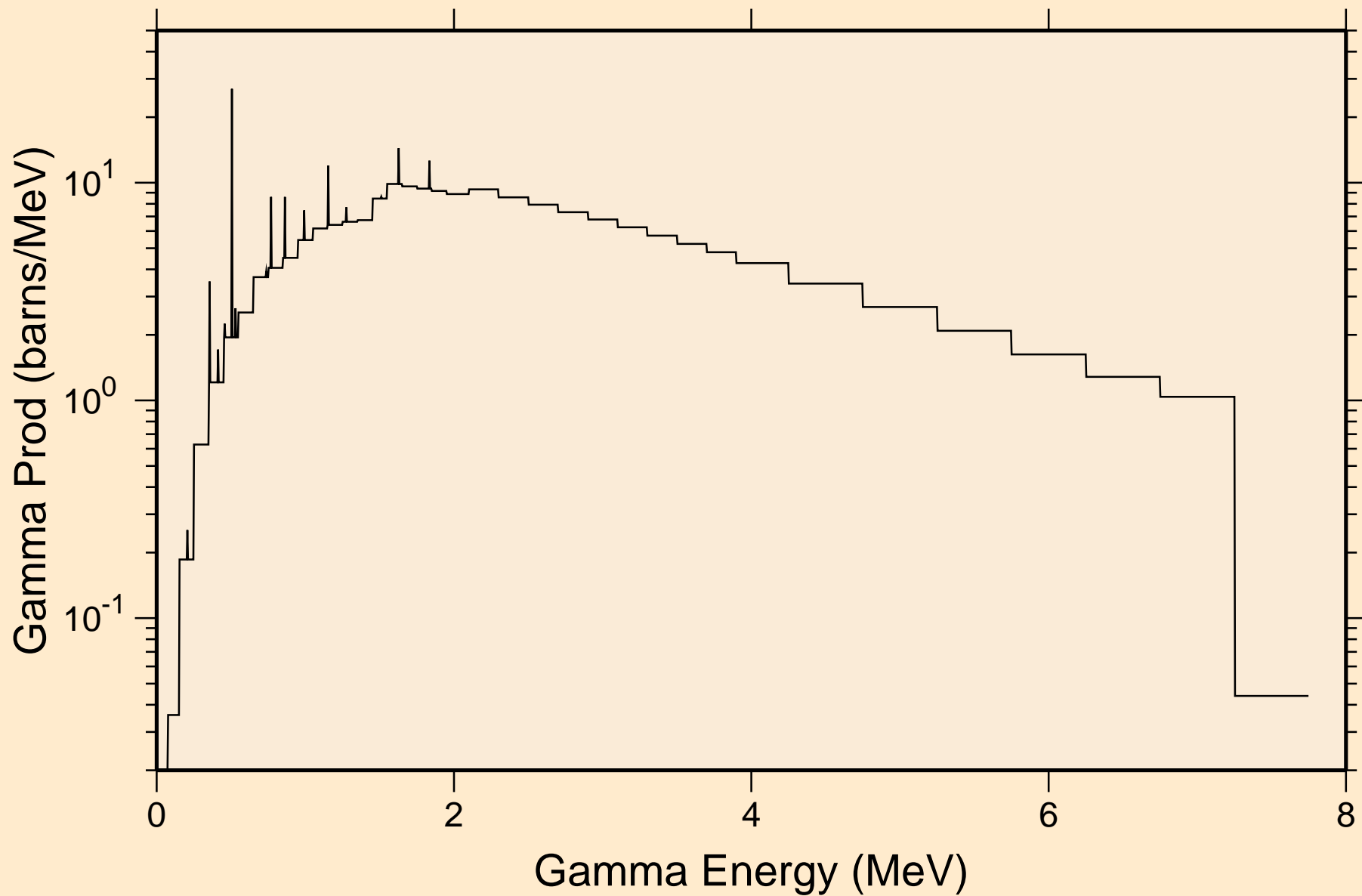
MAT=4019 ACE FILE PRODUCED AT NEA WITH NDEC
Photon emission for (n,pt)



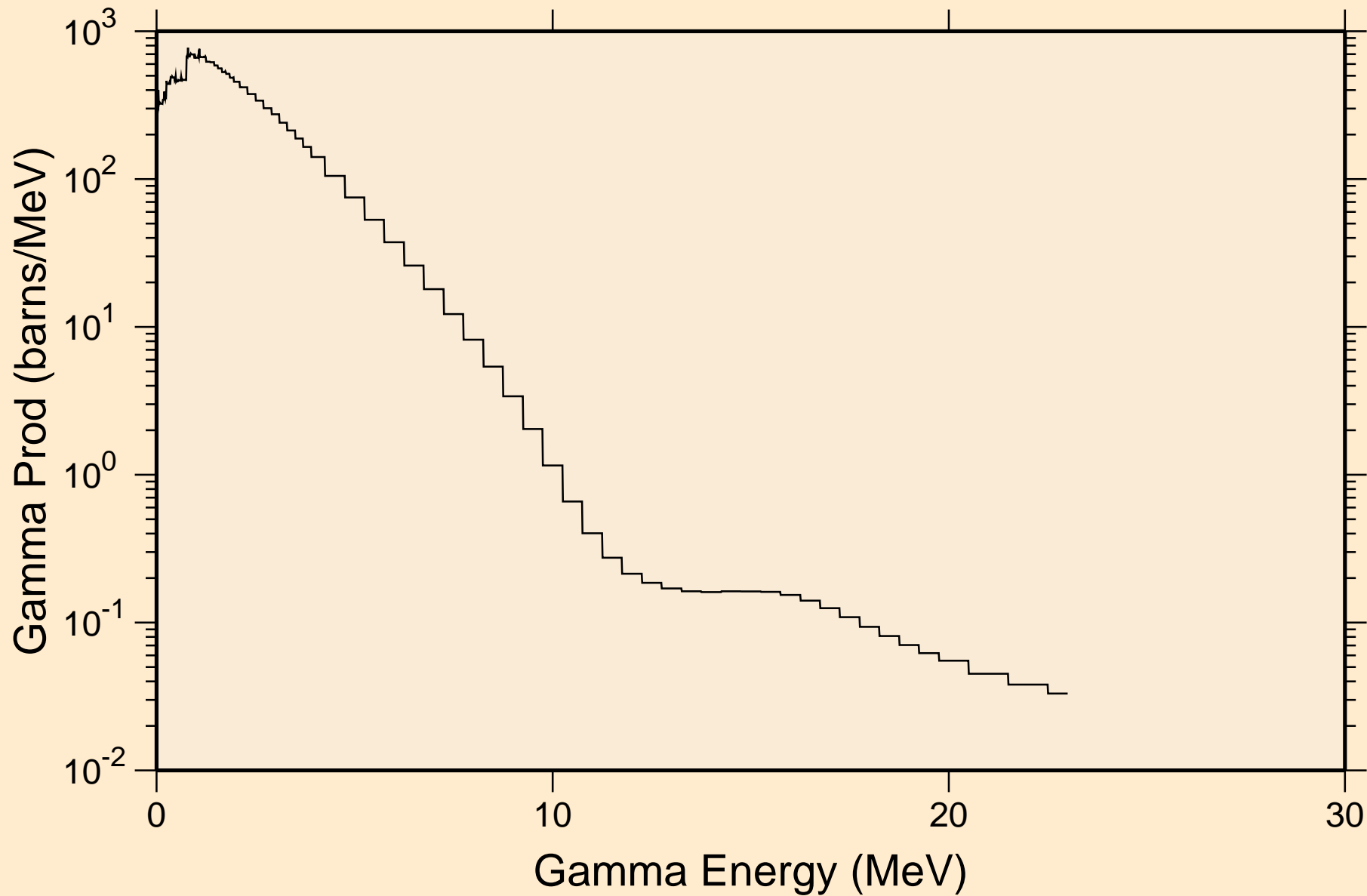
MAT=4019 ACE FILE PRODUCED AT NEA WITH NDEC
Photon emission for (n,da)



MAT=4019 ACE FILE PRODUCED AT NEA WITH NDEC
thermal capture photon spectrum

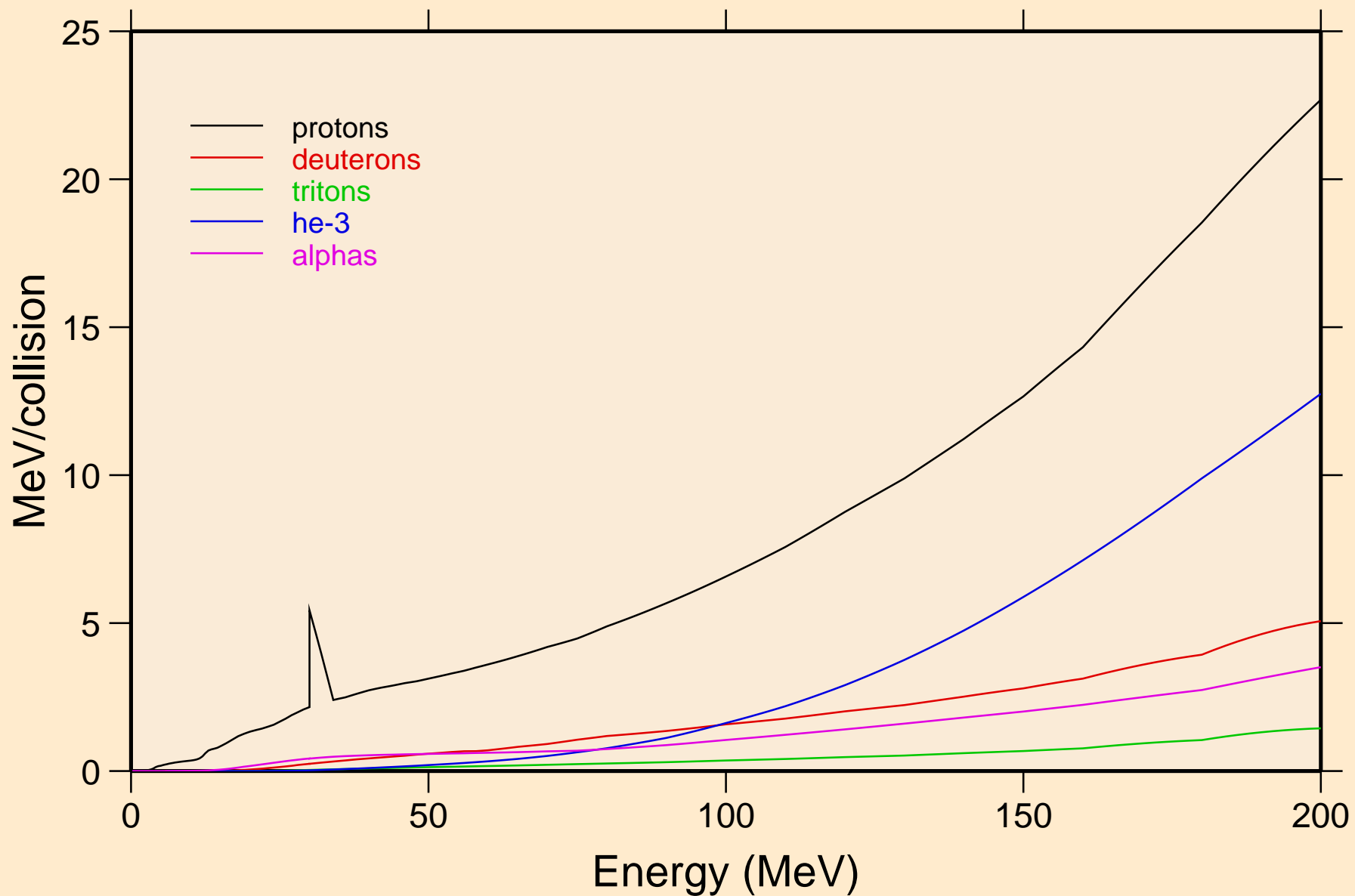


MAT=4019 ACE FILE PRODUCED AT NEA WITH NDEC
14 MeV photon spectrum

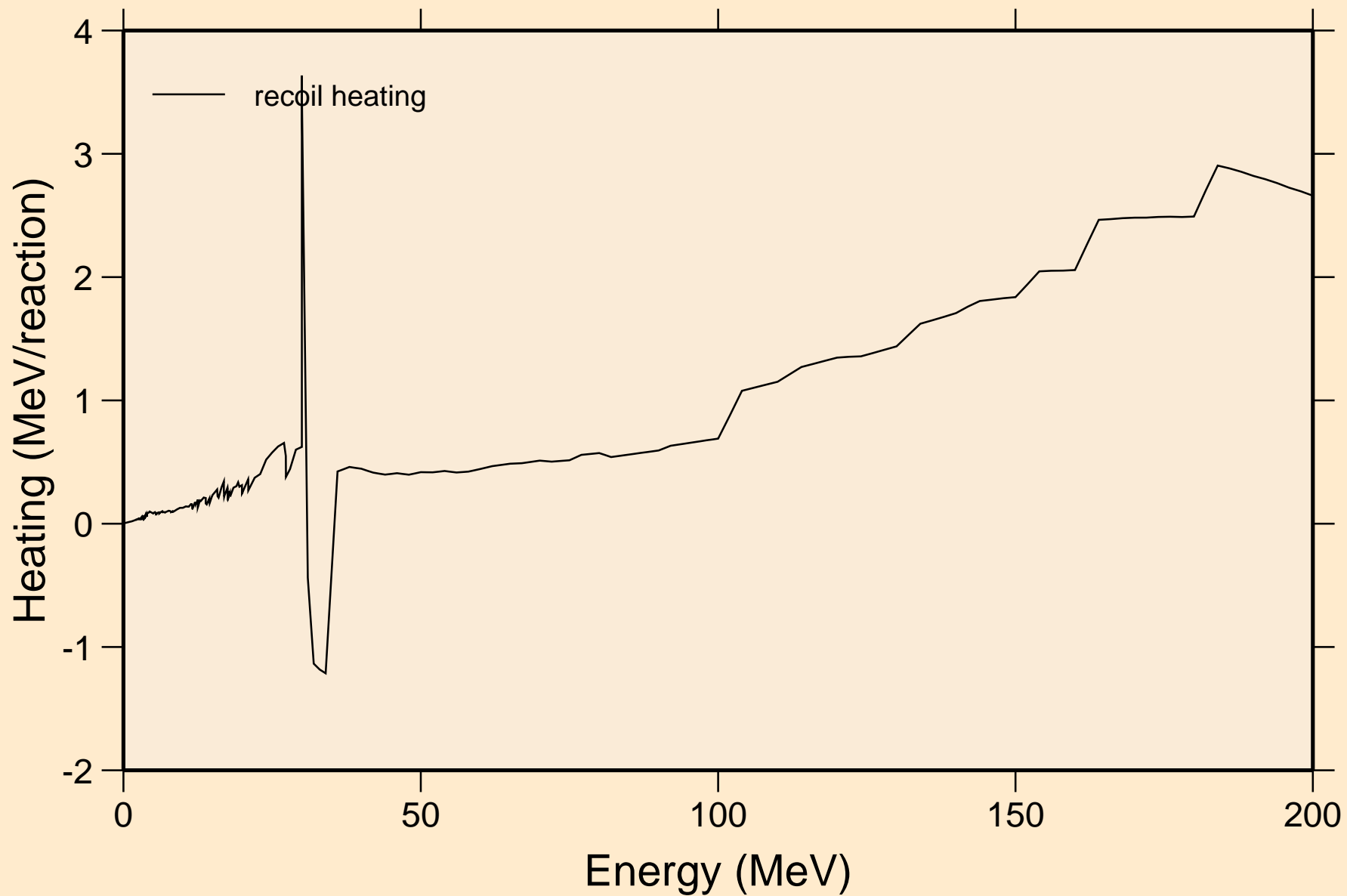


MAT=4019 ACE FILE PRODUCED AT NEA WITH NDEC

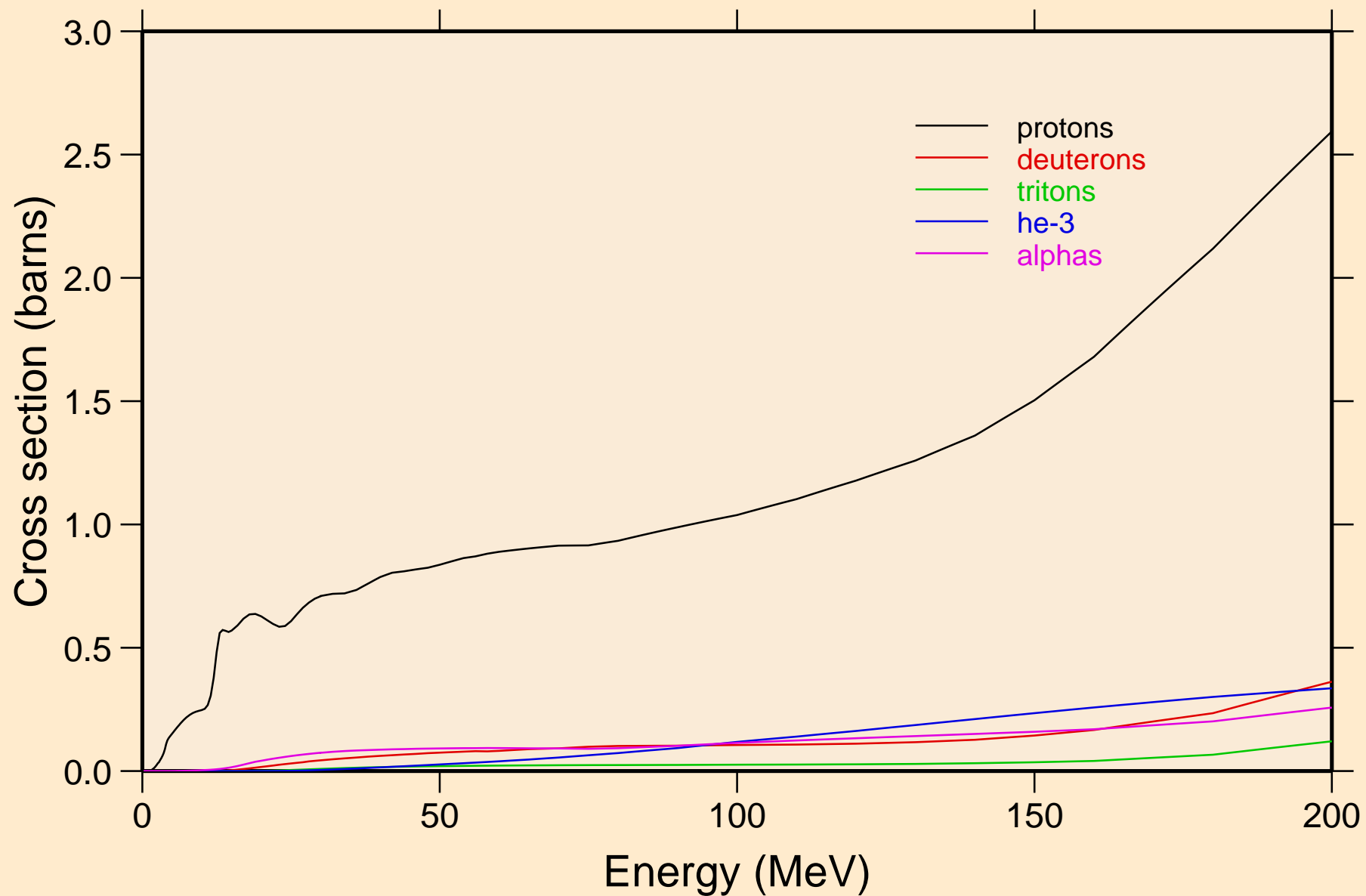
Particle heating contributions



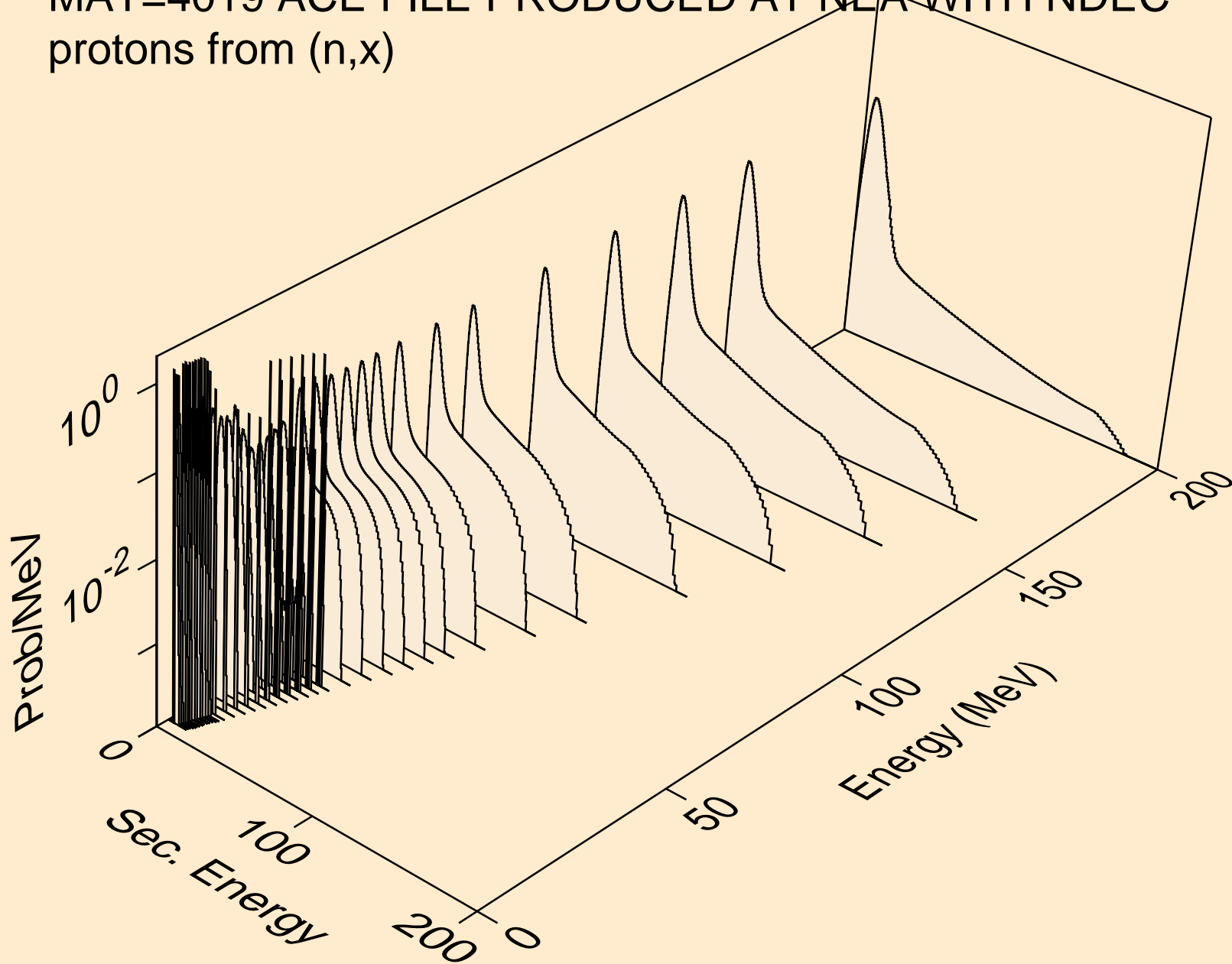
MAT=4019 ACE FILE PRODUCED AT NEA WITH NDEC
Recoil Heating



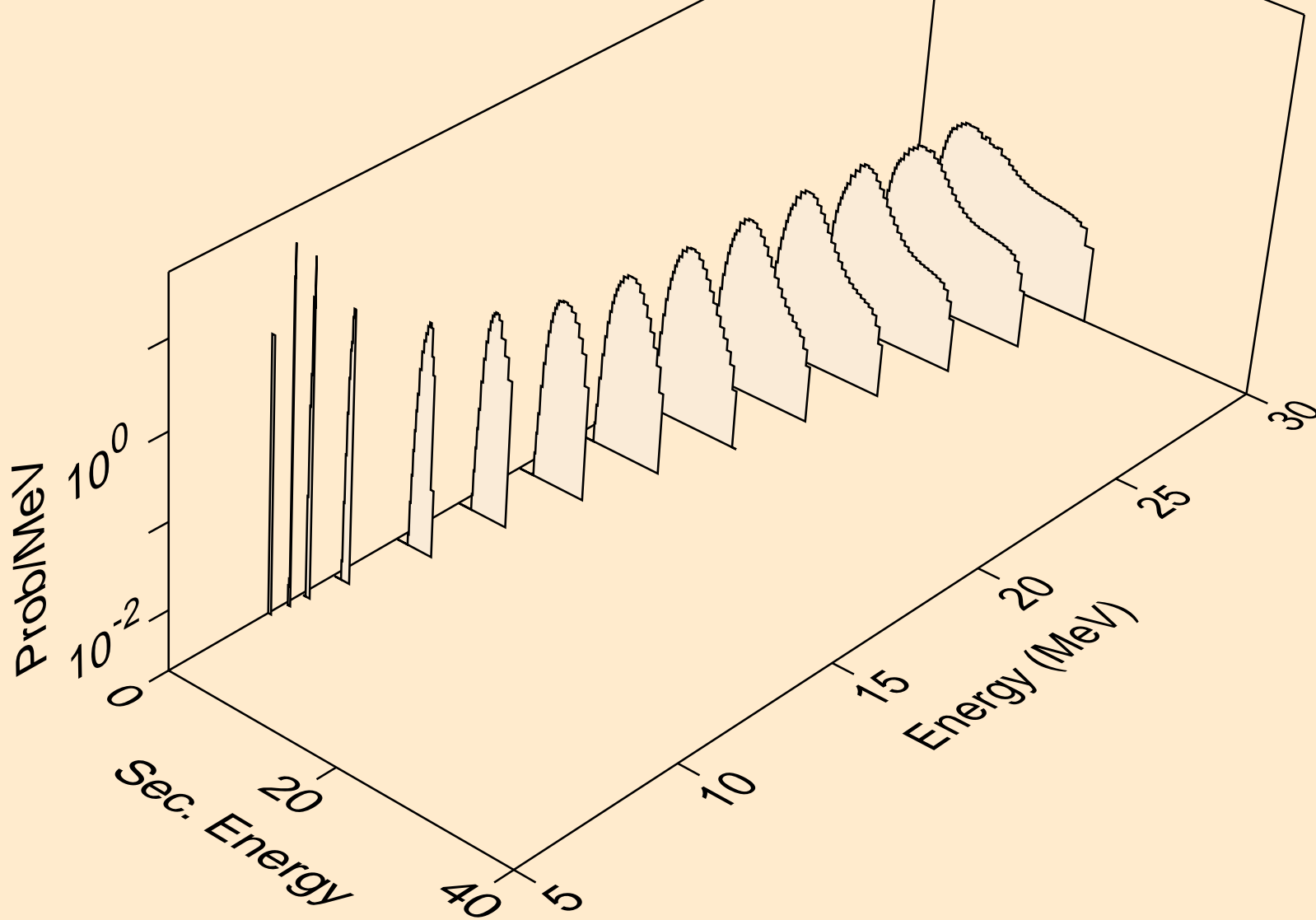
MAT=4019 ACE FILE PRODUCED AT NEA WITH NDEC
Particle production cross sections



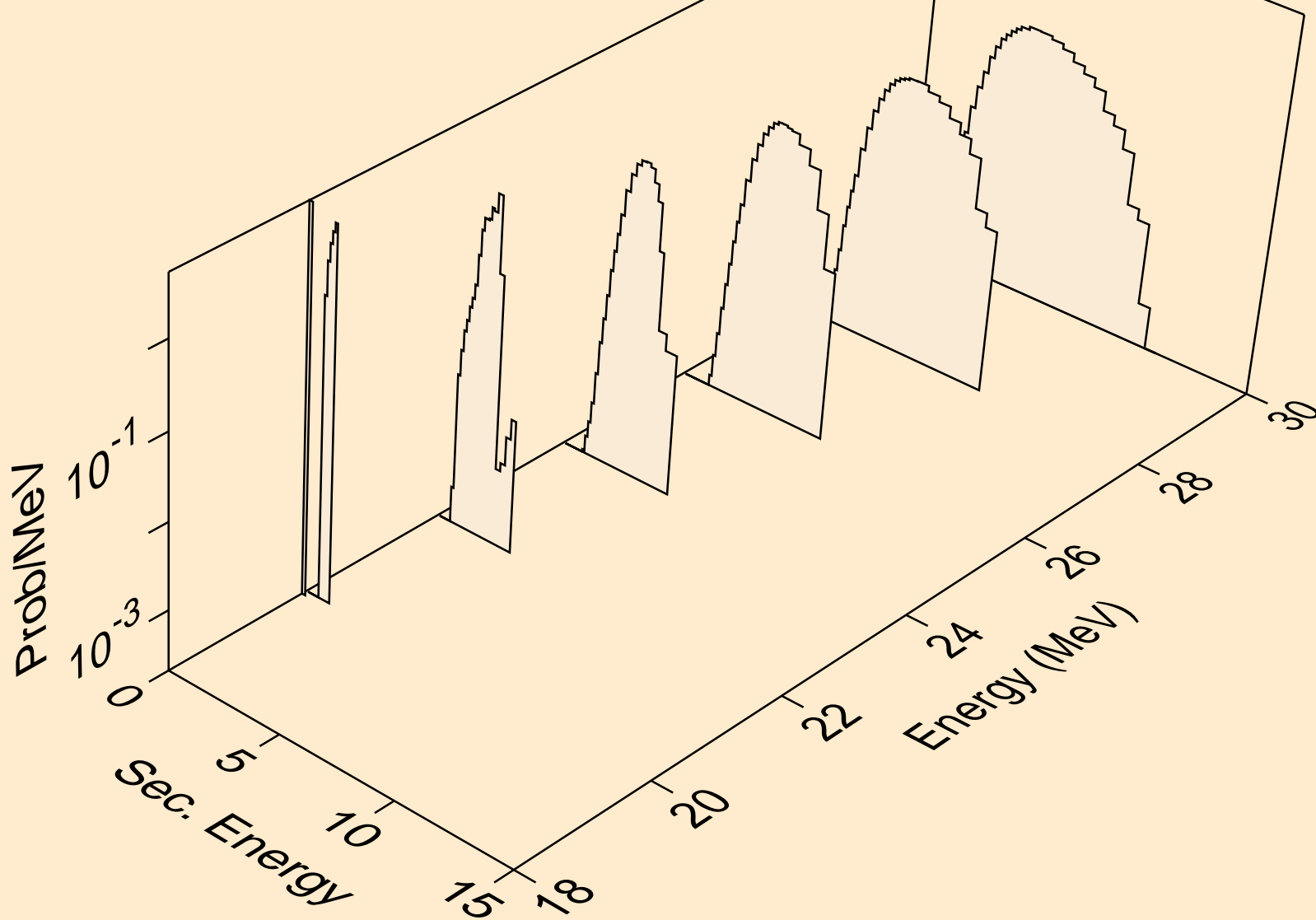
MAT=4019 ACE FILE PRODUCED AT NEA WITH NDEC
protons from (n,x)



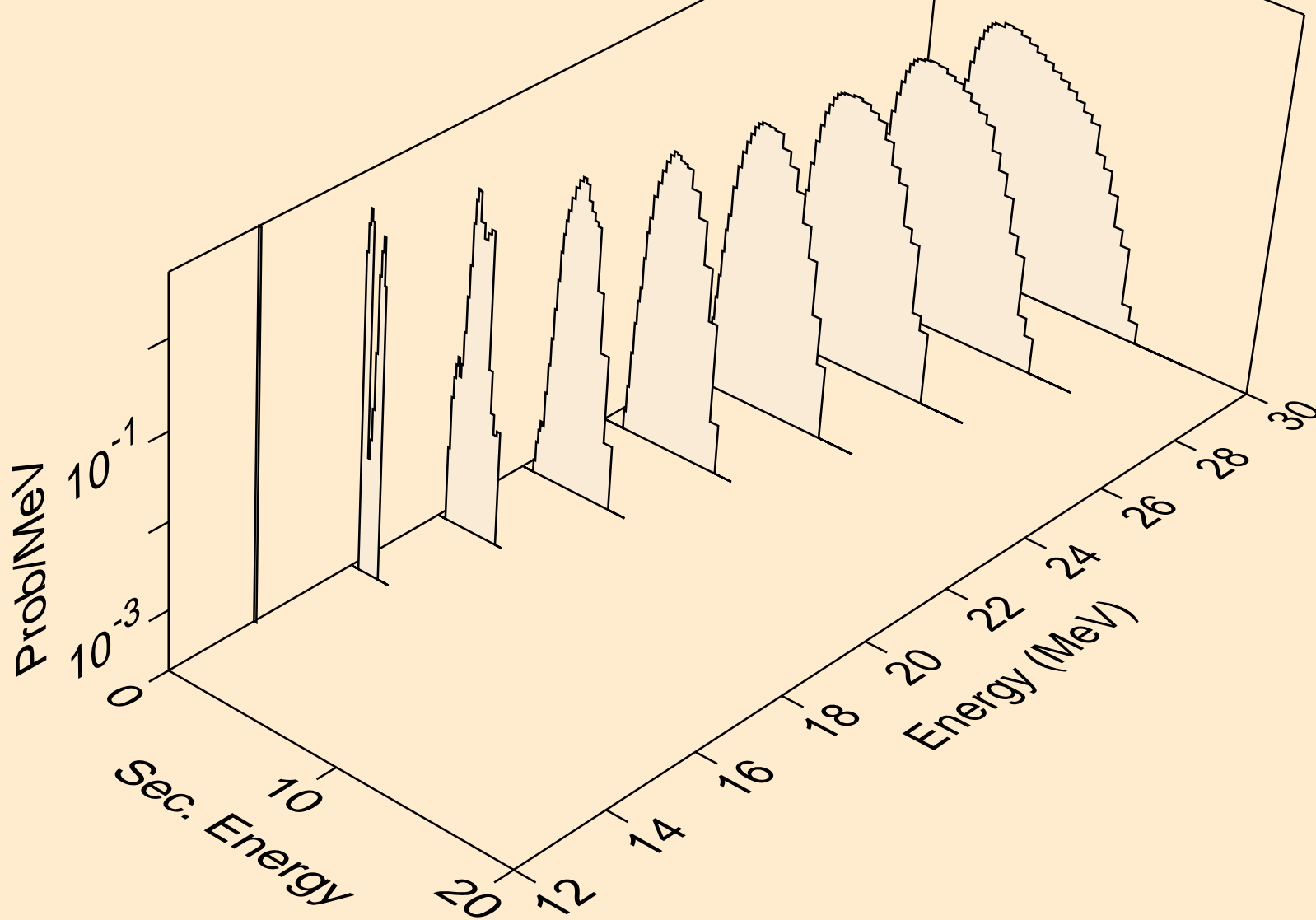
MAT=4019 ACE FILE PRODUCED AT NEA WITH NDEC
protons from (n,n*)p



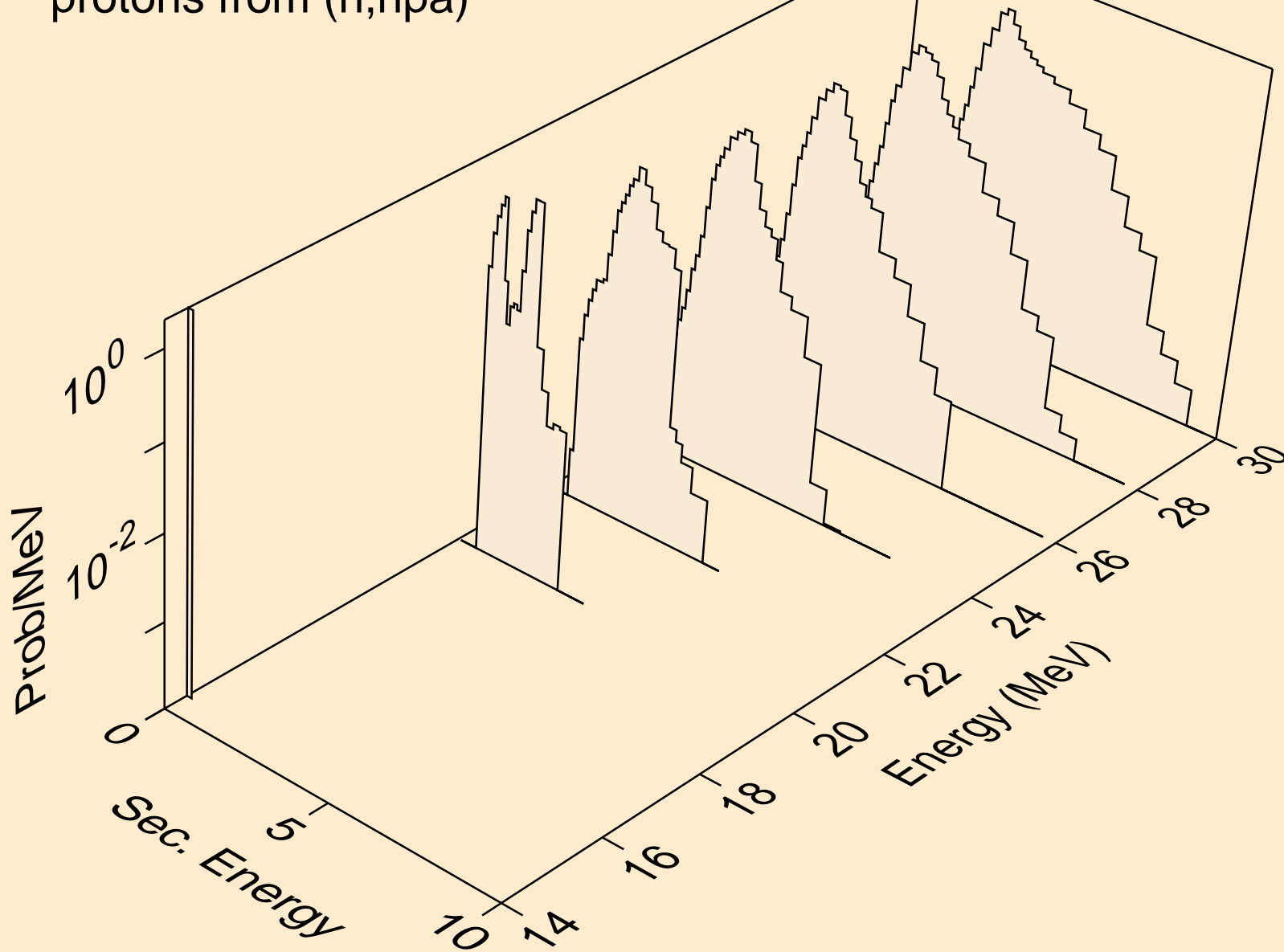
MAT=4019 ACE FILE PRODUCED AT NEA WITH NDEC
protons from (n,2np)



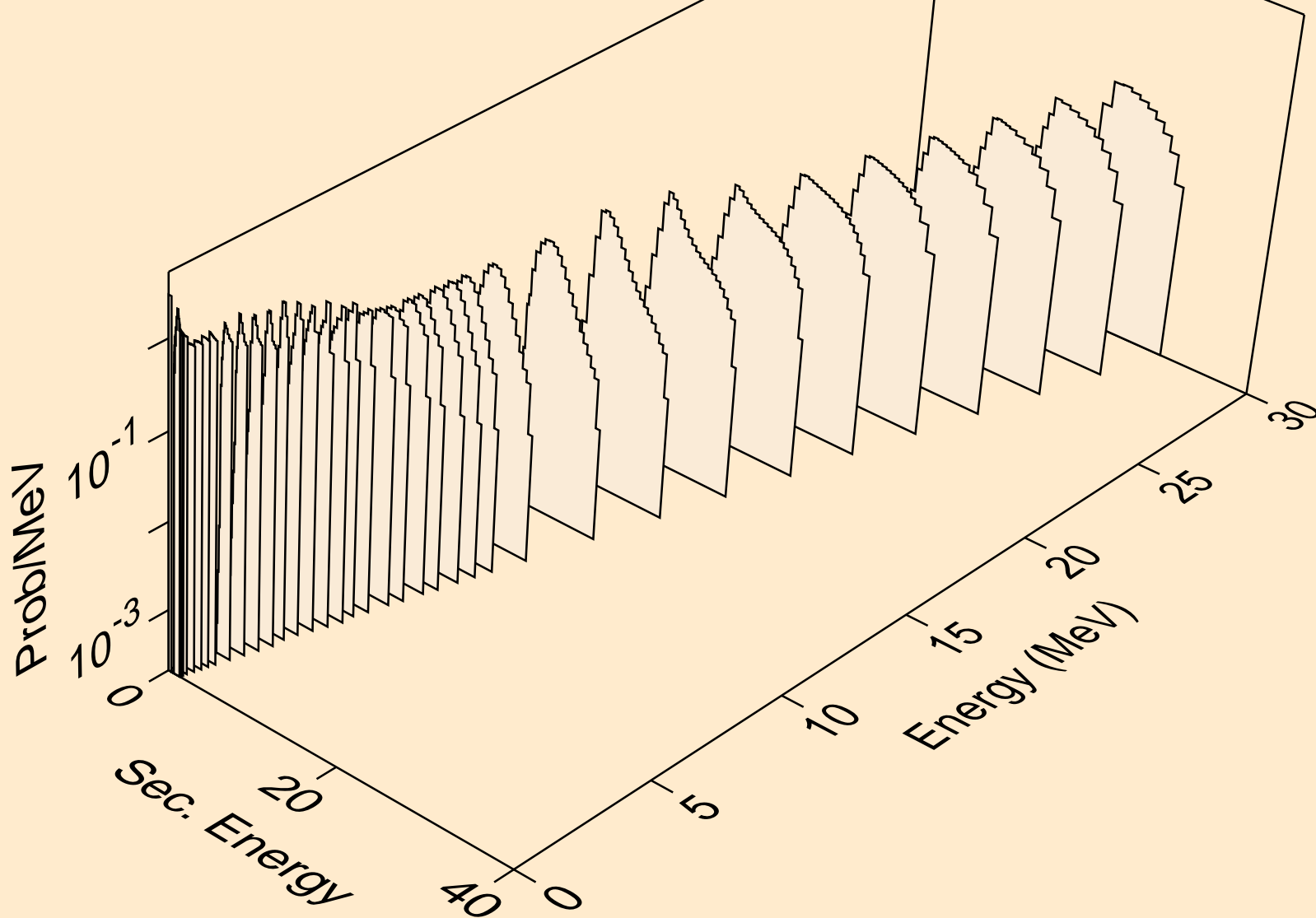
MAT=4019 ACE FILE PRODUCED AT NEA WITH NDEC
protons from (n,2np)



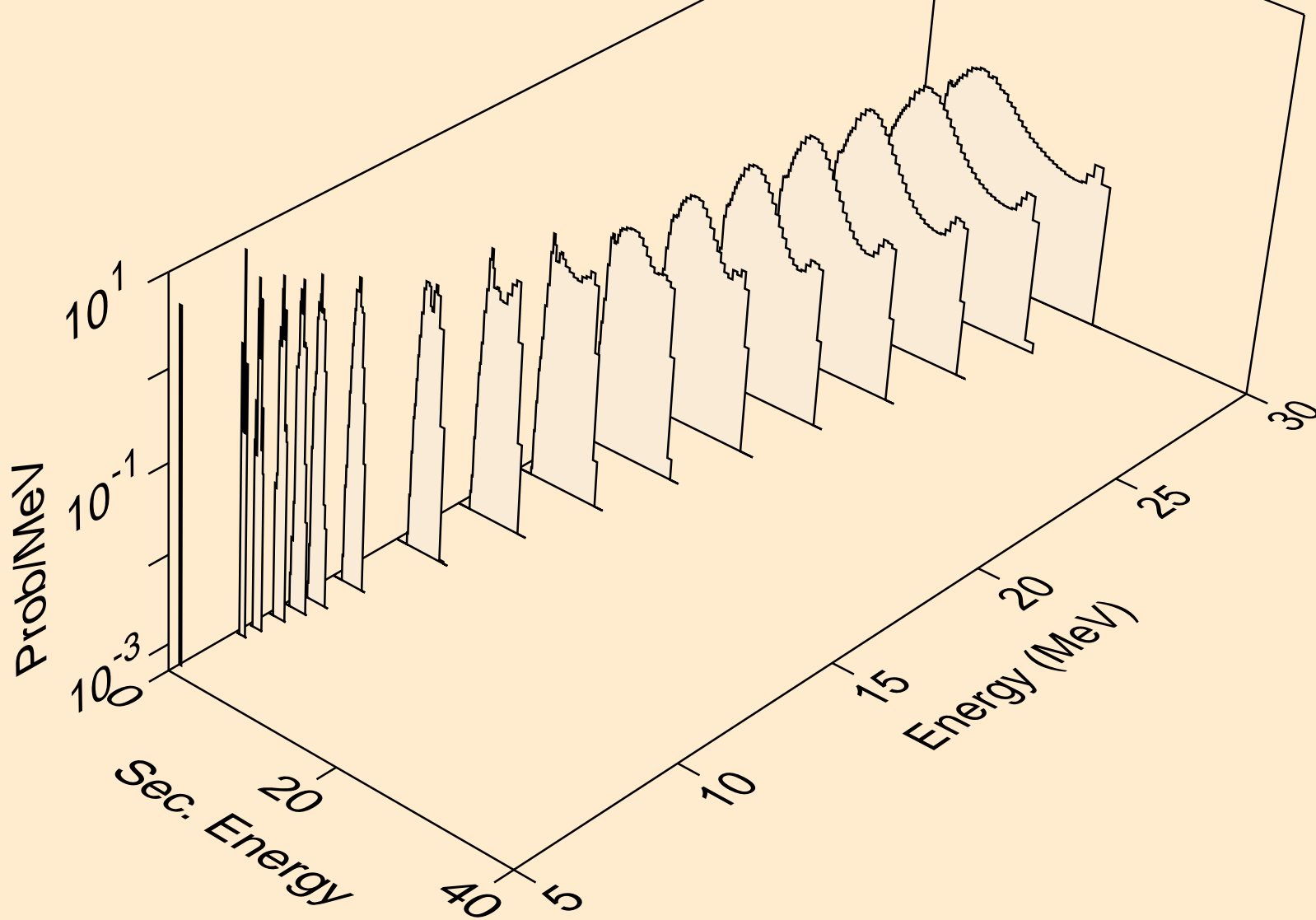
MAT=4019 ACE FILE PRODUCED AT NEA WITH NDEC
protons from (n,npa)



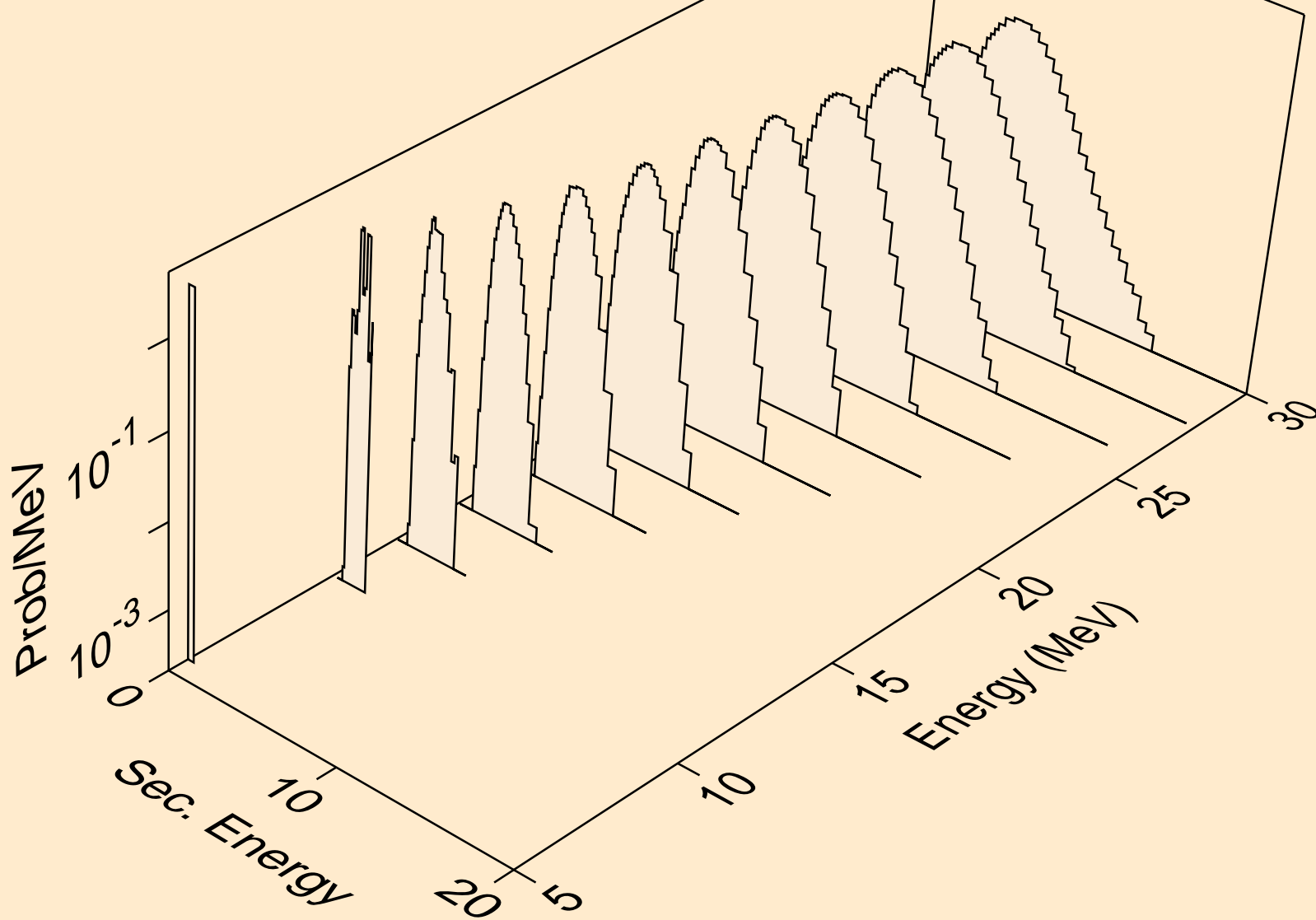
MAT=4019 ACE FILE PRODUCED AT NEA WITH NDEC
protons from (n,p)



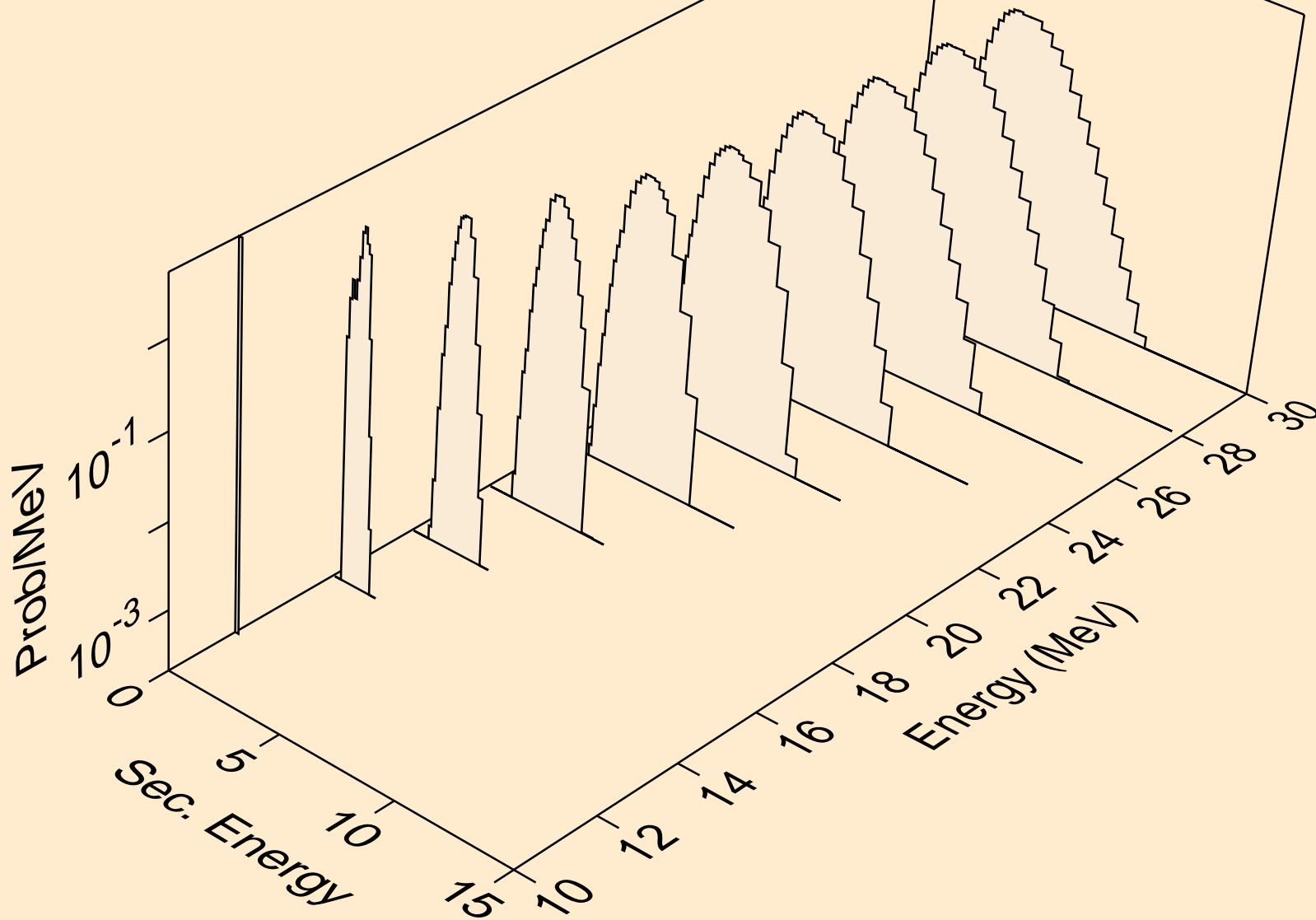
MAT=4019 ACE FILE PRODUCED AT NEA WITH NDEC
protons from (n,2p)



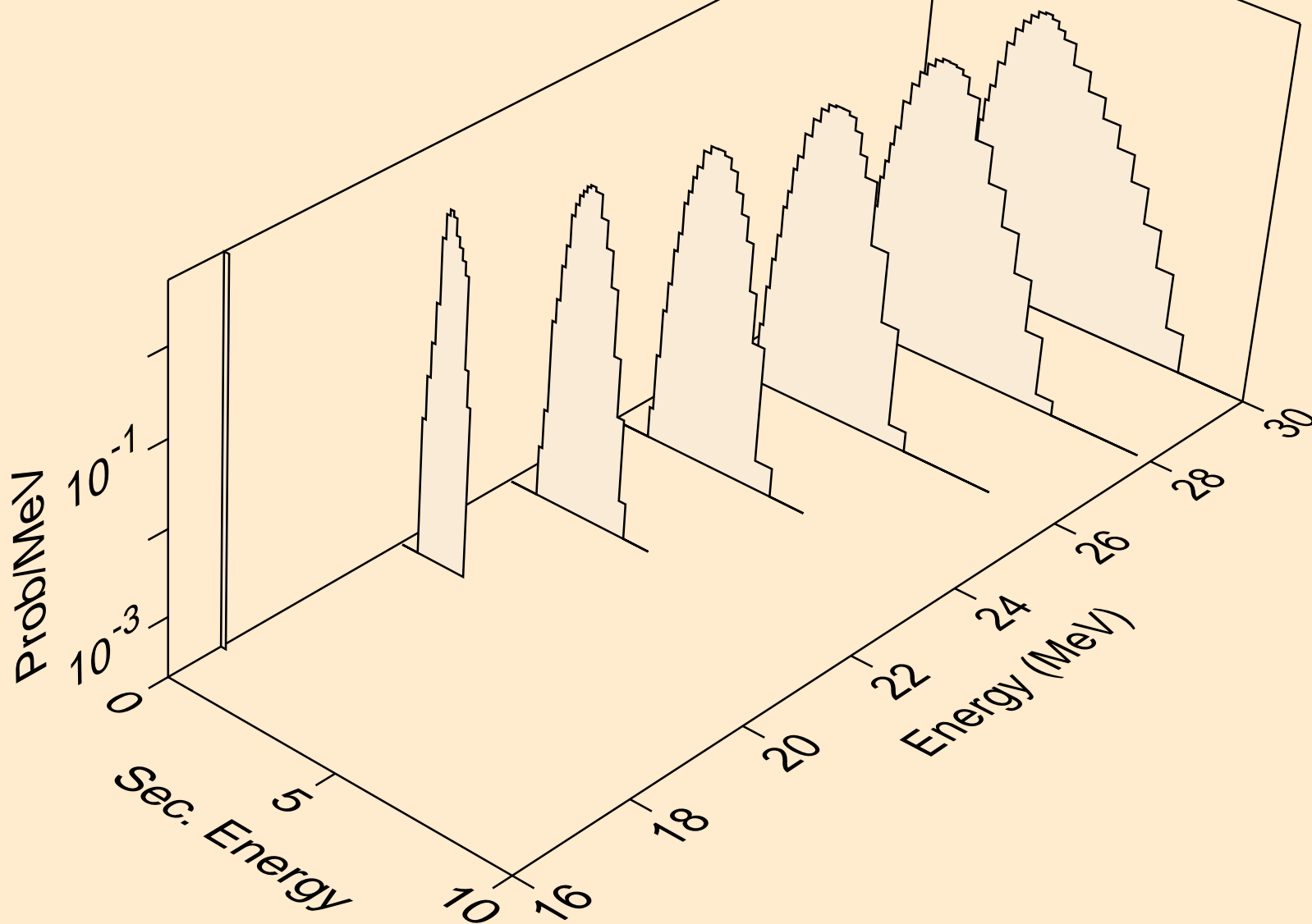
MAT=4019 ACE FILE PRODUCED AT NEA WITH NDEC
protons from (n,pa)



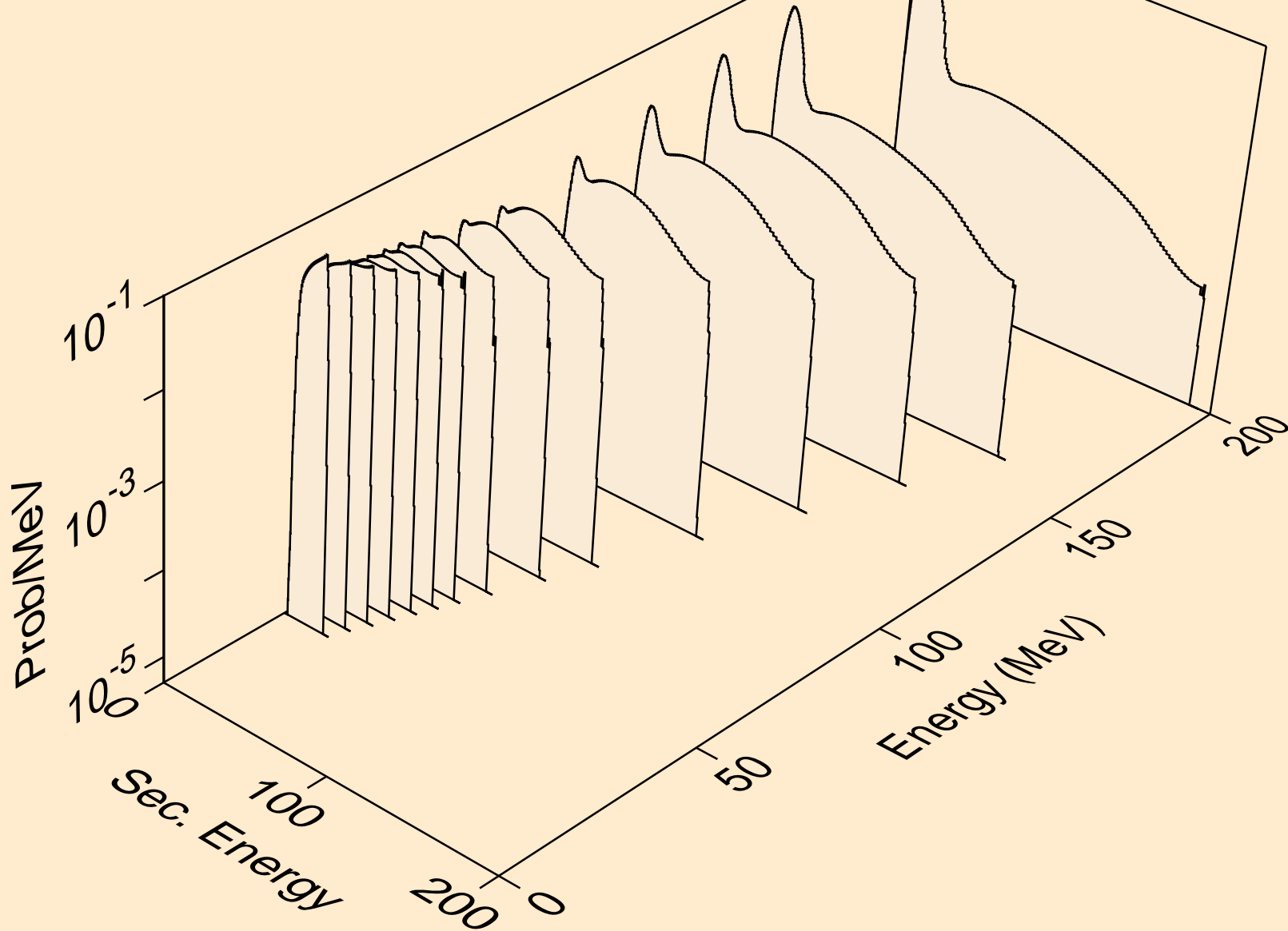
MAT=4019 ACE FILE PRODUCED AT NEA WITH NDEC
protons from (n,pd)



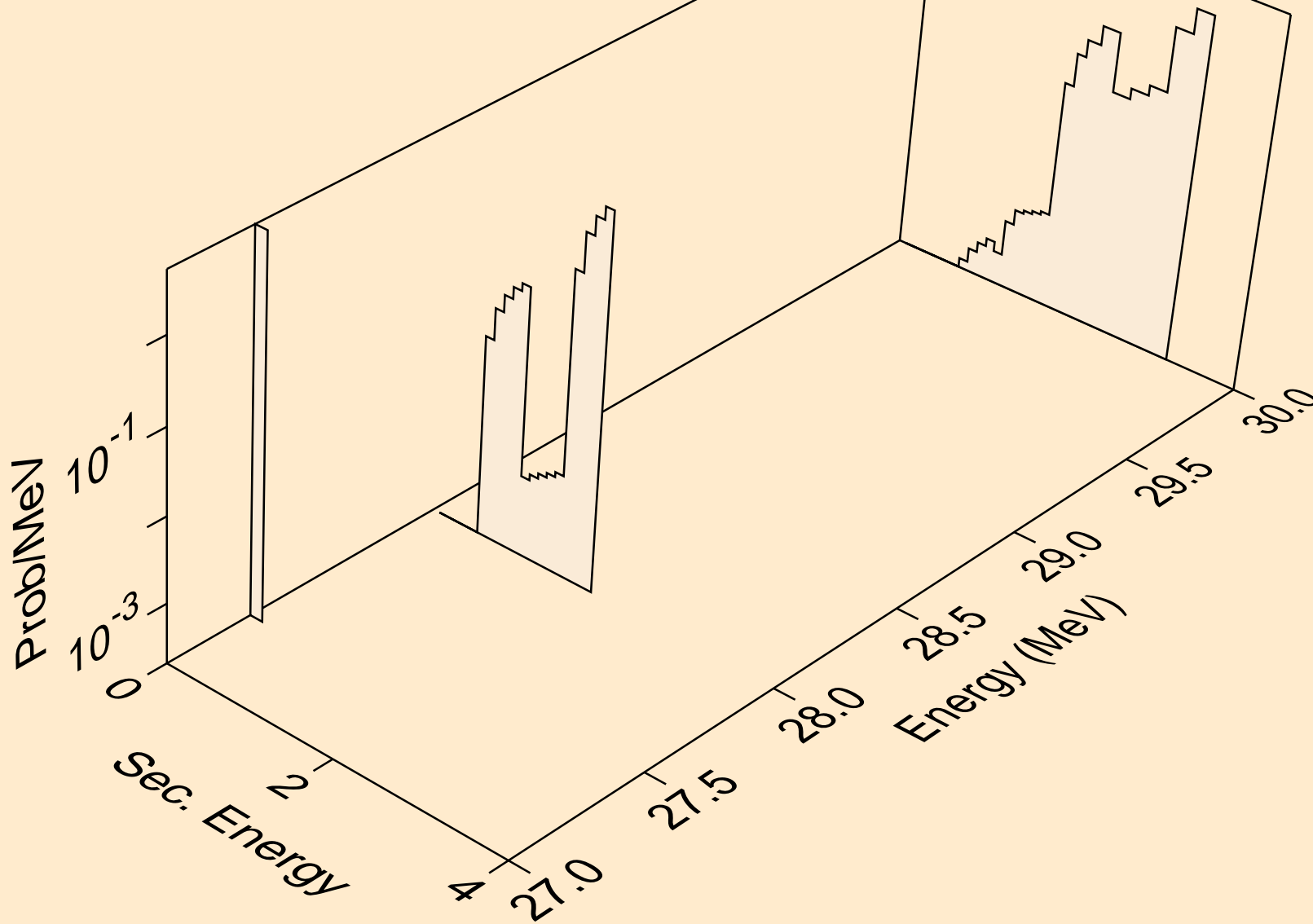
MAT=4019 ACE FILE PRODUCED AT NEA WITH NDEC
protons from (n,pt)



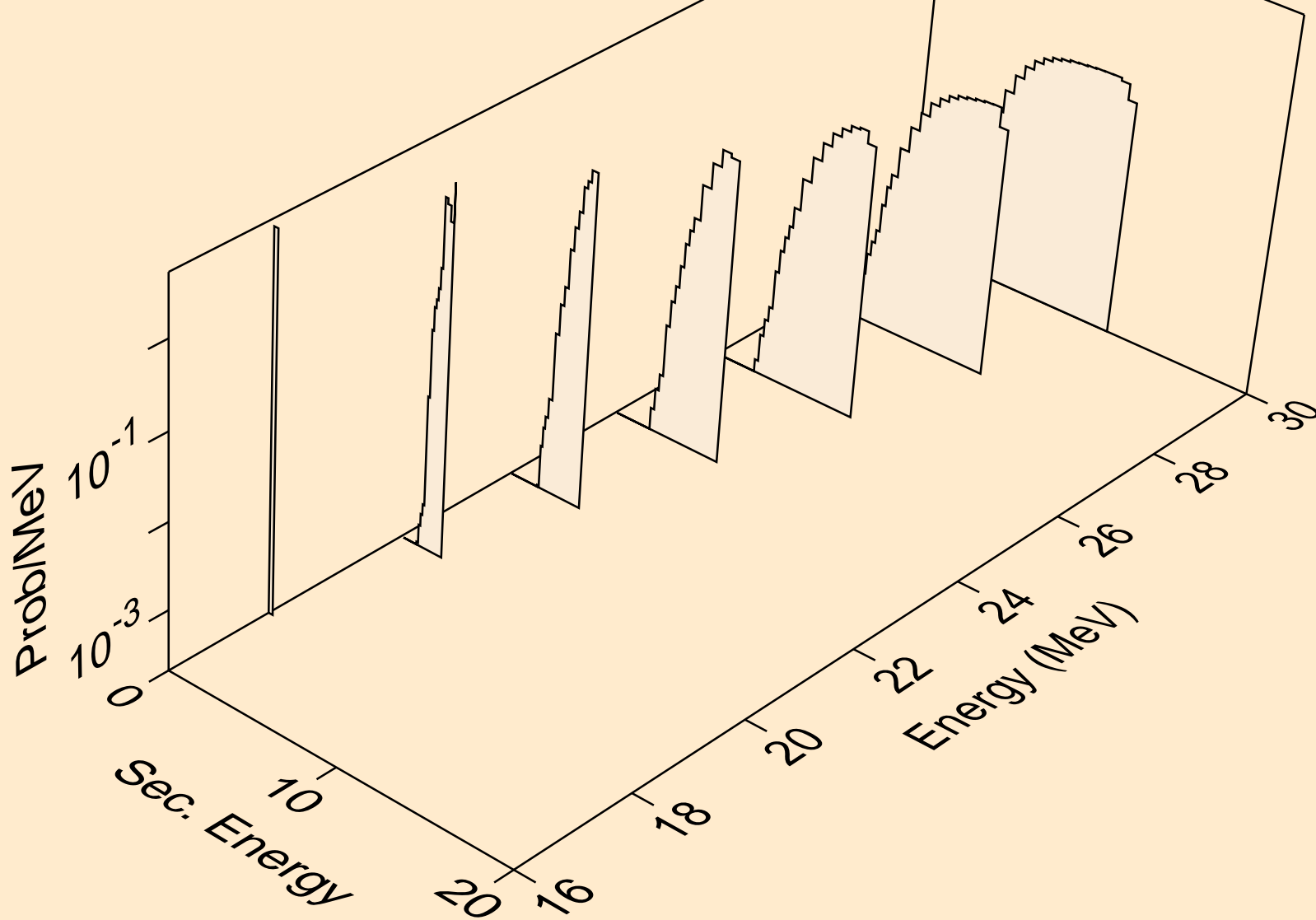
MAT=4019 ACE FILE PRODUCED AT NEA WITH NDEC
deuterons from (n,x)



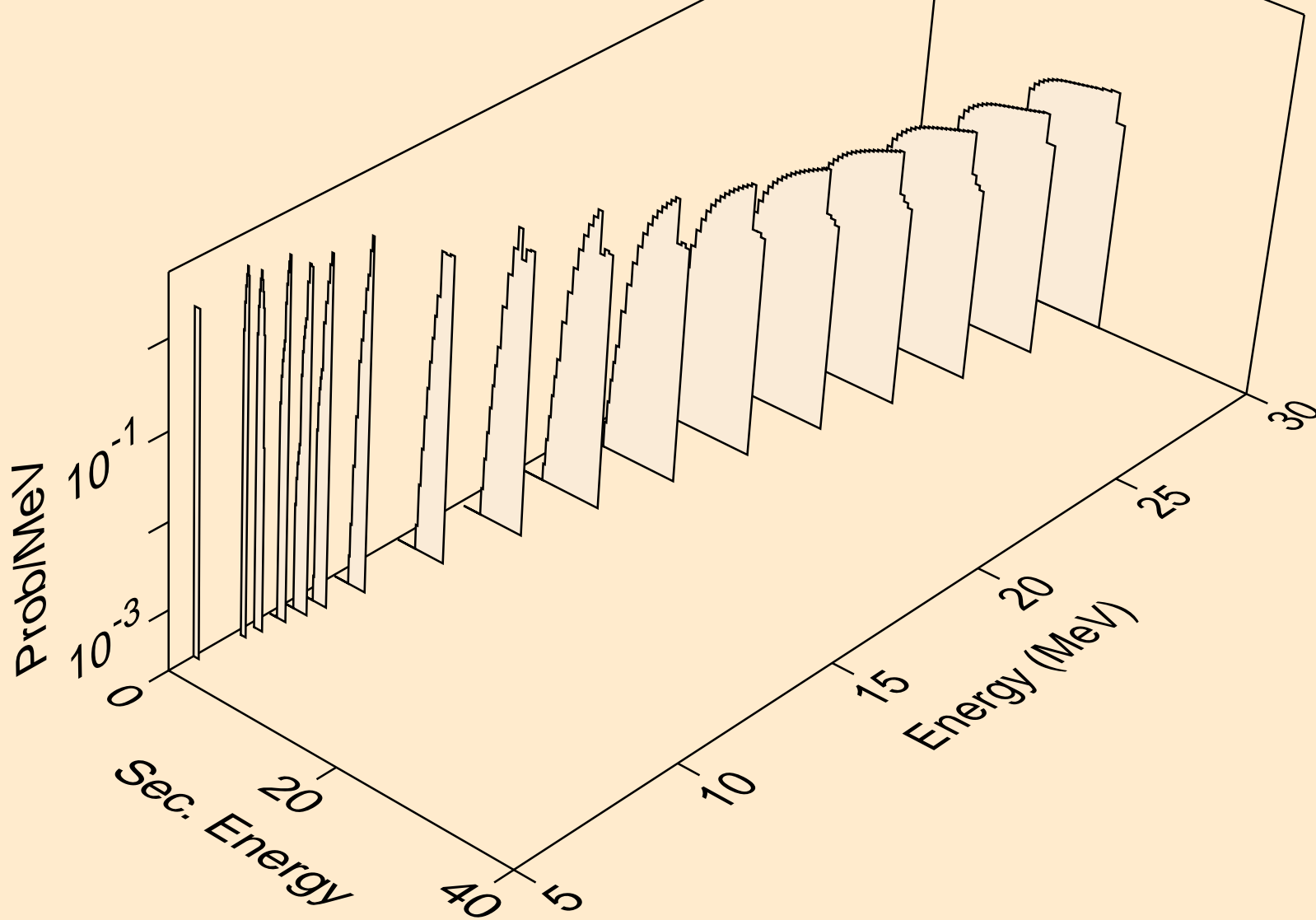
MAT=4019 ACE FILE PRODUCED AT NEA WITH NDEC
deuterons from (n,2nd)



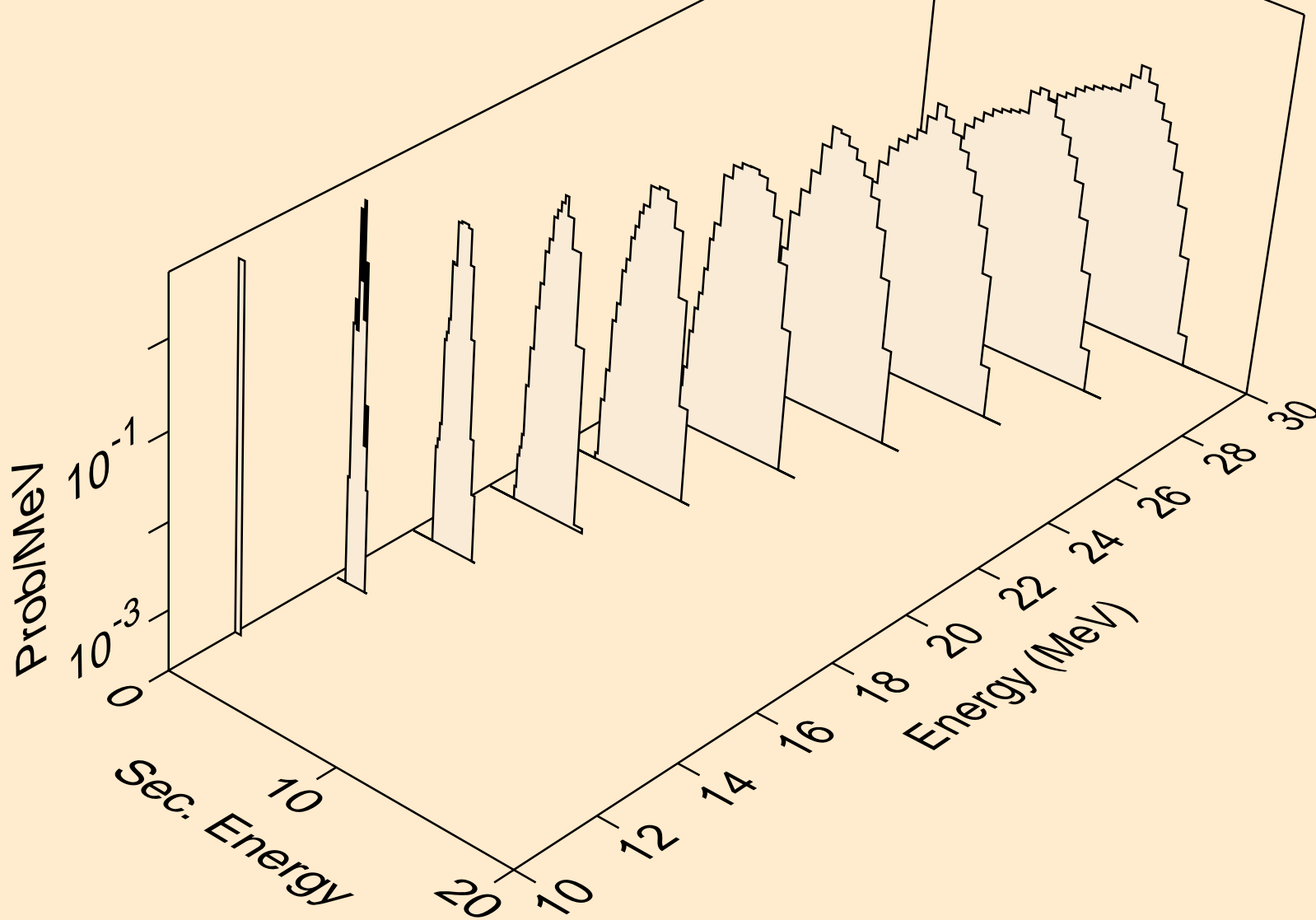
MAT=4019 ACE FILE PRODUCED AT NEA WITH NDEC
deuterons from (n,n*)d



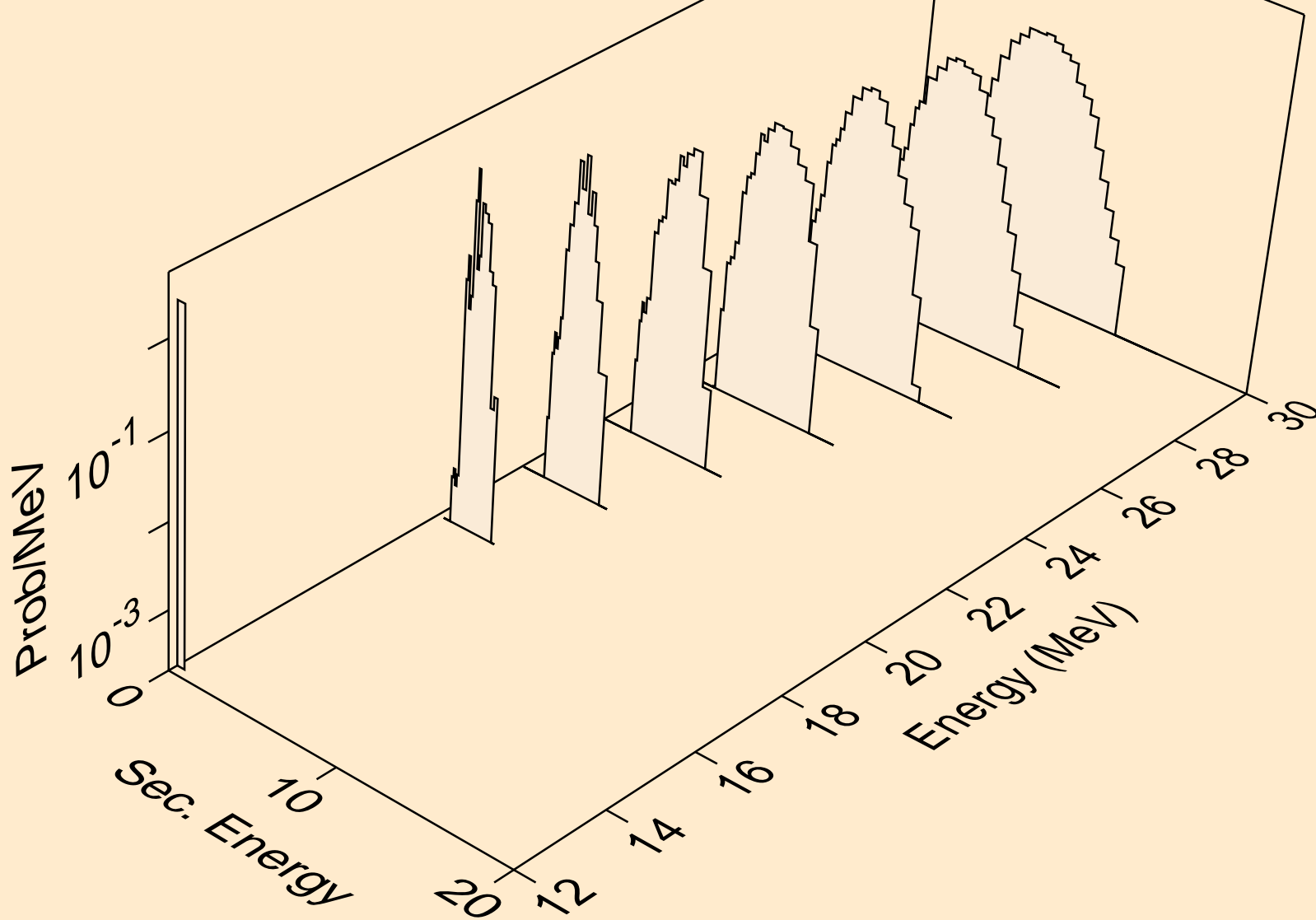
MAT=4019 ACE FILE PRODUCED AT NEA WITH NDEC
deuterons from (n,d)



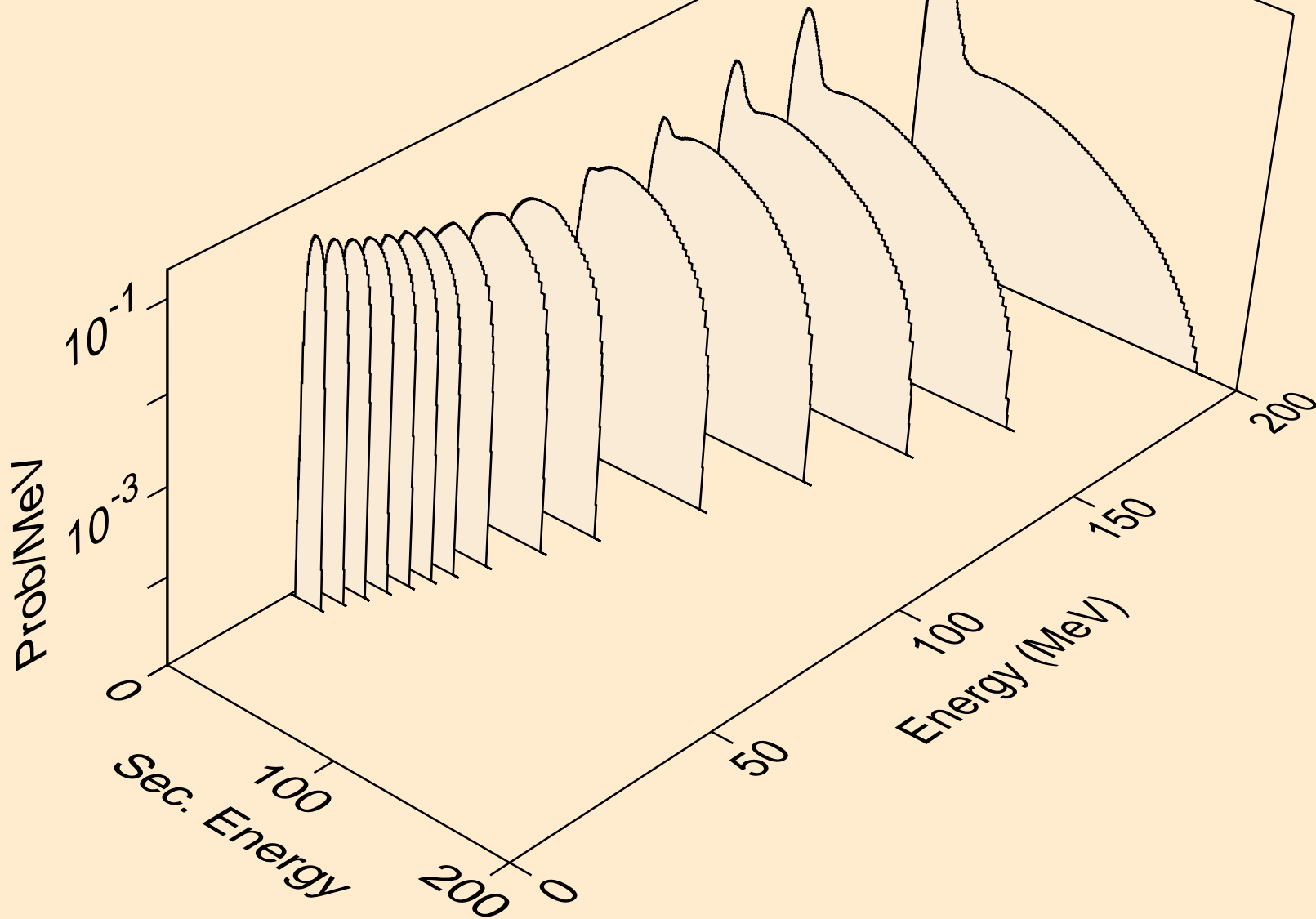
MAT=4019 ACE FILE PRODUCED AT NEA WITH NDEC
deuterons from (n,pd)



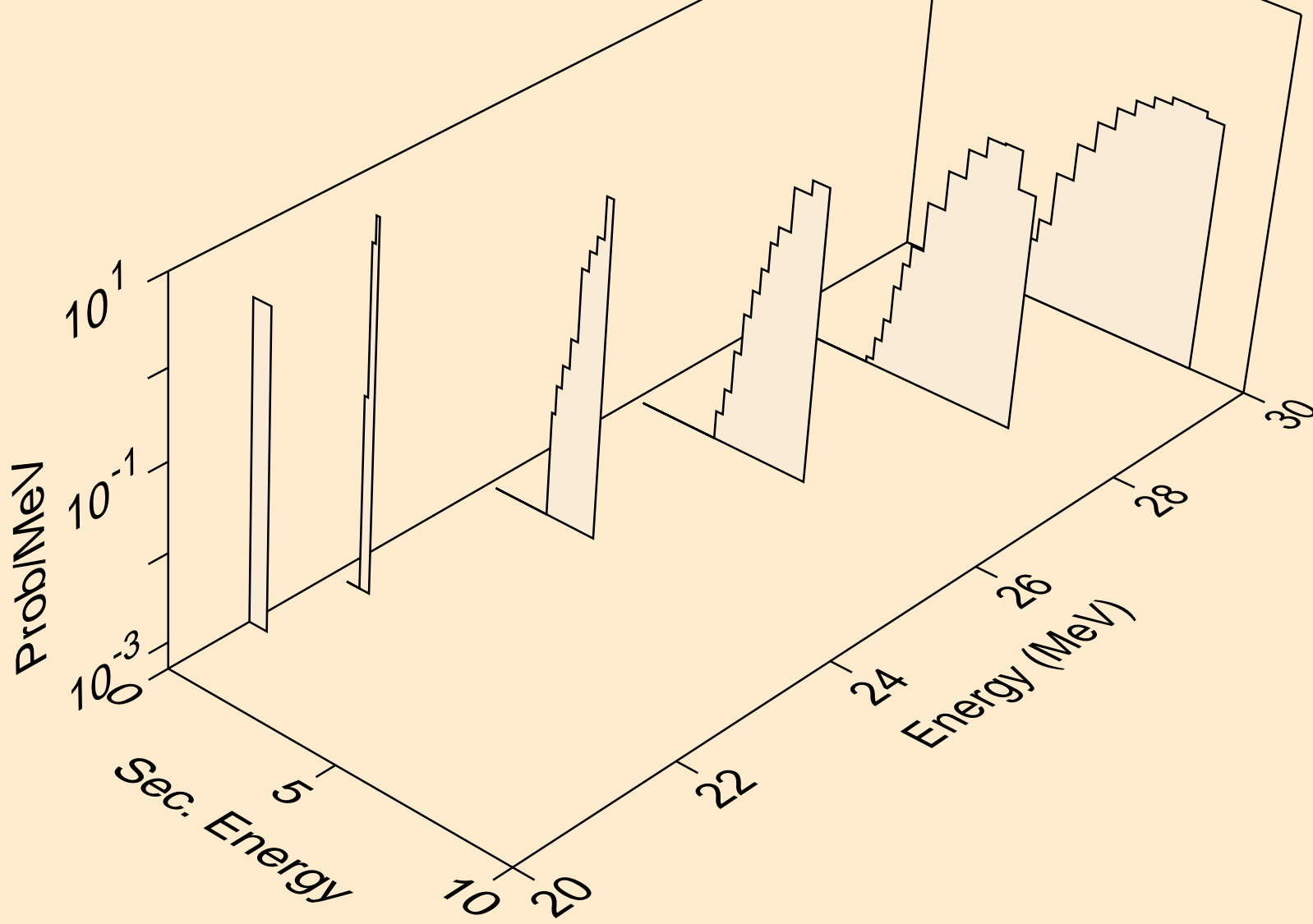
MAT=4019 ACE FILE PRODUCED AT NEA WITH NDEC
deuterons from (n,da)



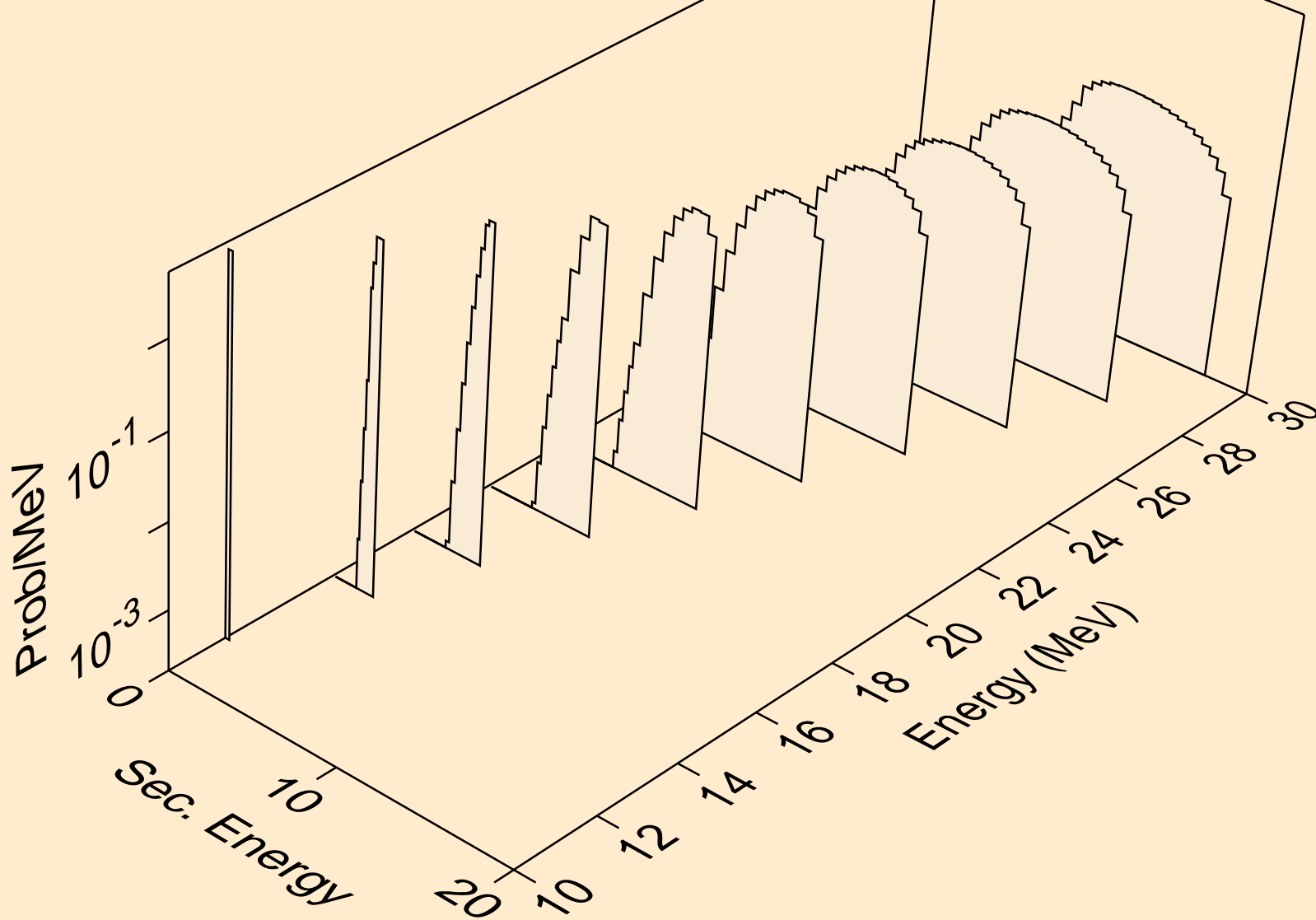
MAT=4019 ACE FILE PRODUCED AT NEA WITH NDEC
tritons from (n,x)



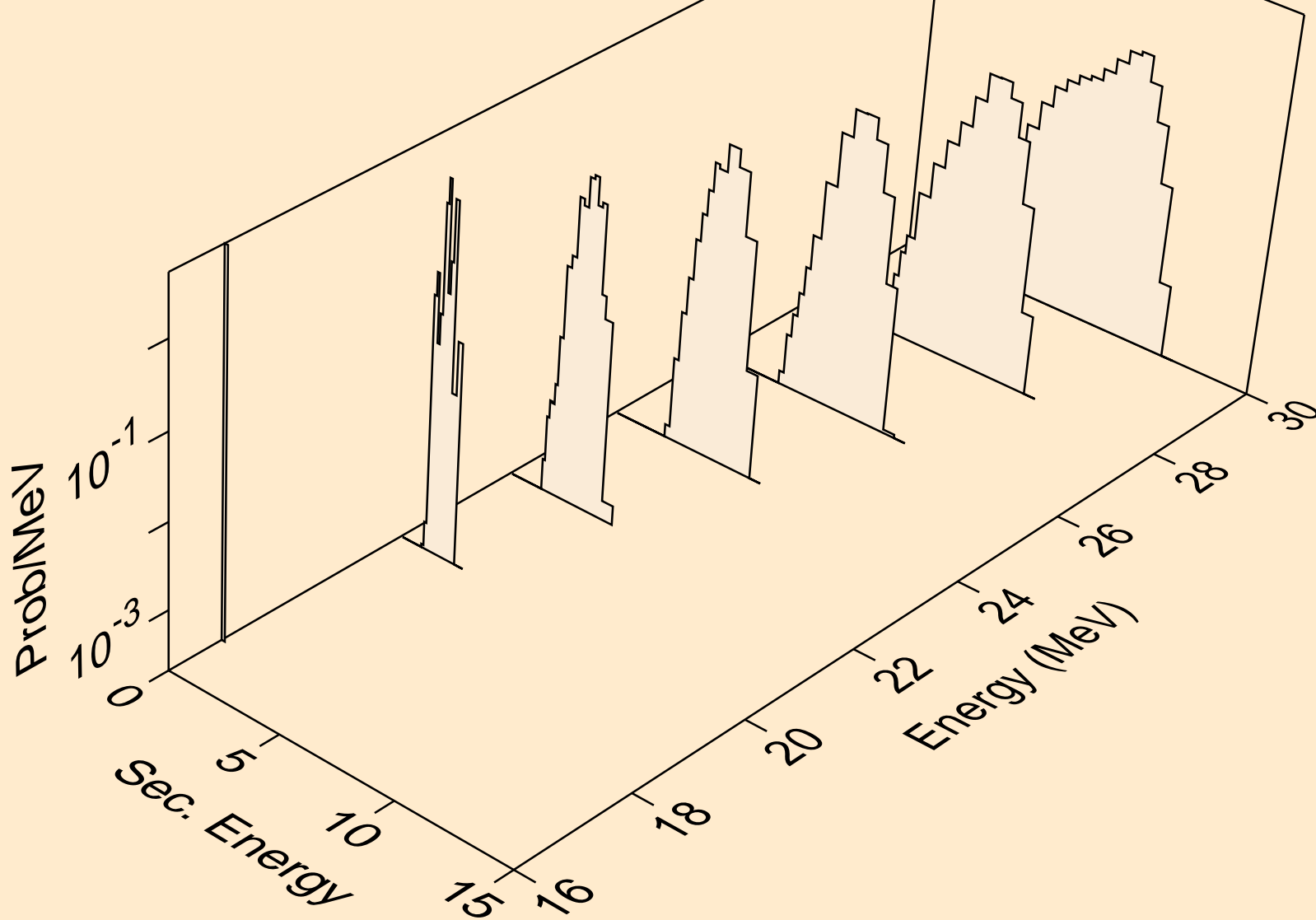
MAT=4019 ACE FILE PRODUCED AT NEA WITH NDEC
tritons from (n,n*)t



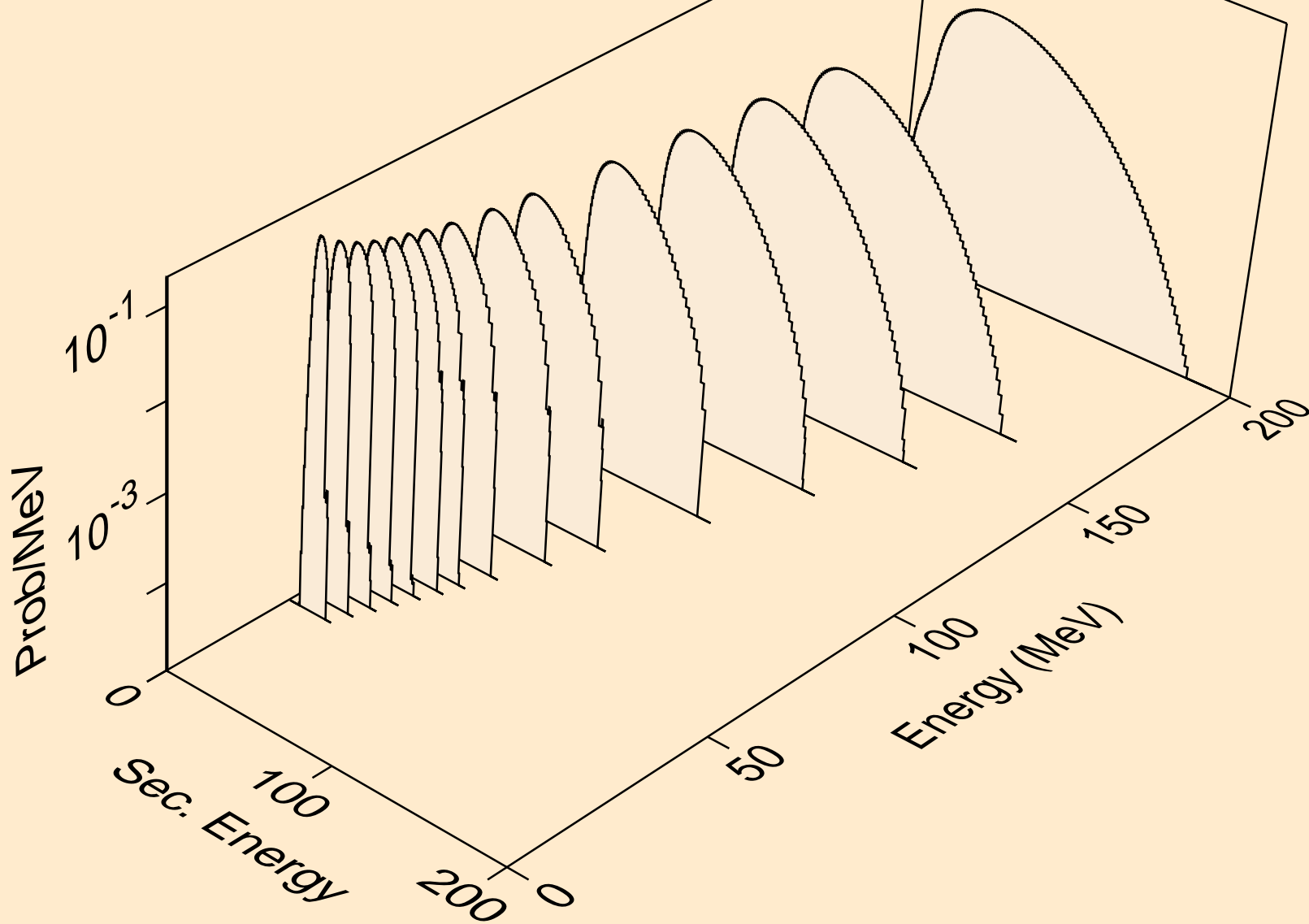
MAT=4019 ACE FILE PRODUCED AT NEA WITH NDEC
tritons from (n,t)



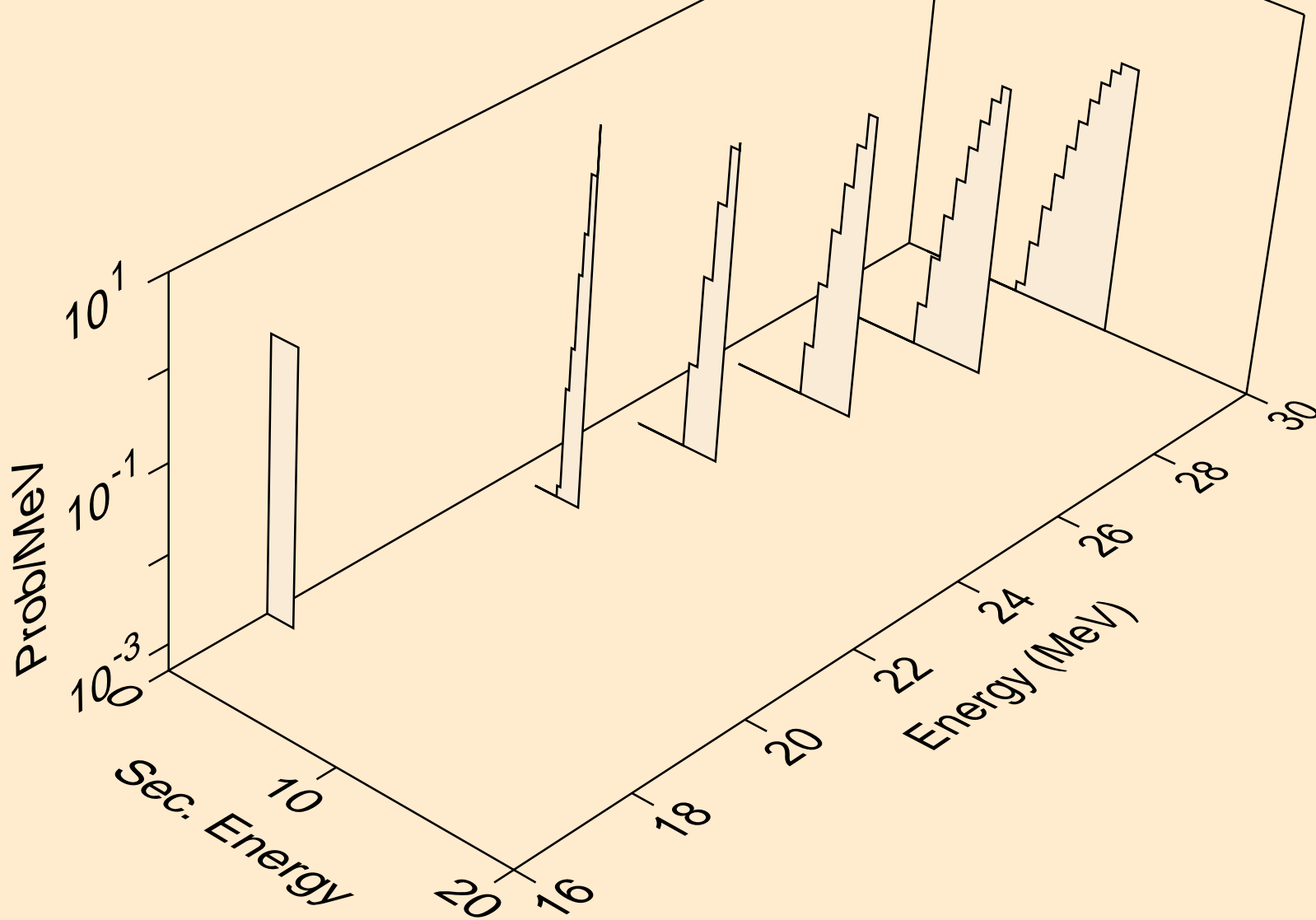
MAT=4019 ACE FILE PRODUCED AT NEA WITH NDEC
tritons from (n,pt)



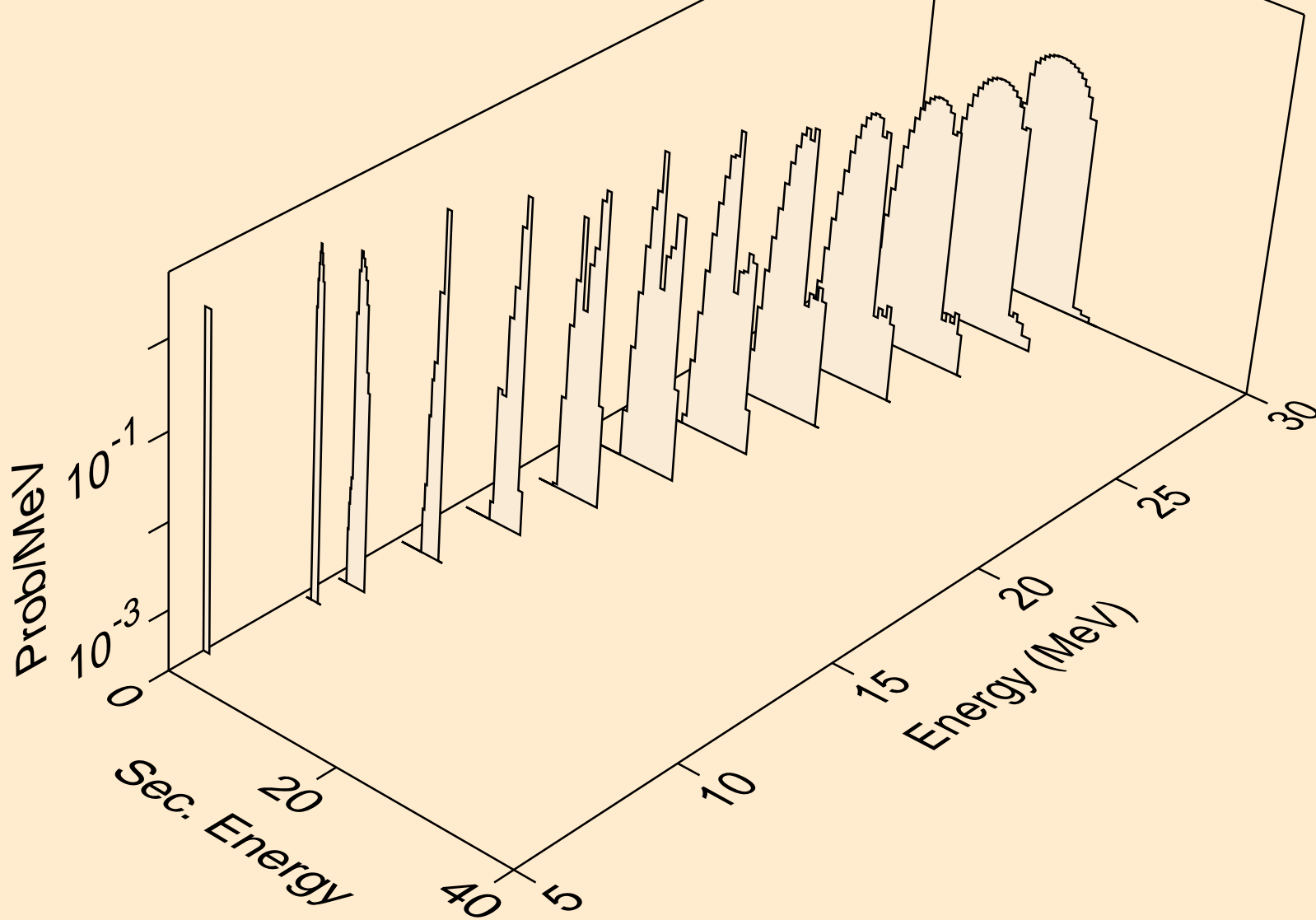
MAT=4019 ACE FILE PRODUCED AT NEA WITH NDEC
he3s from (n,x)



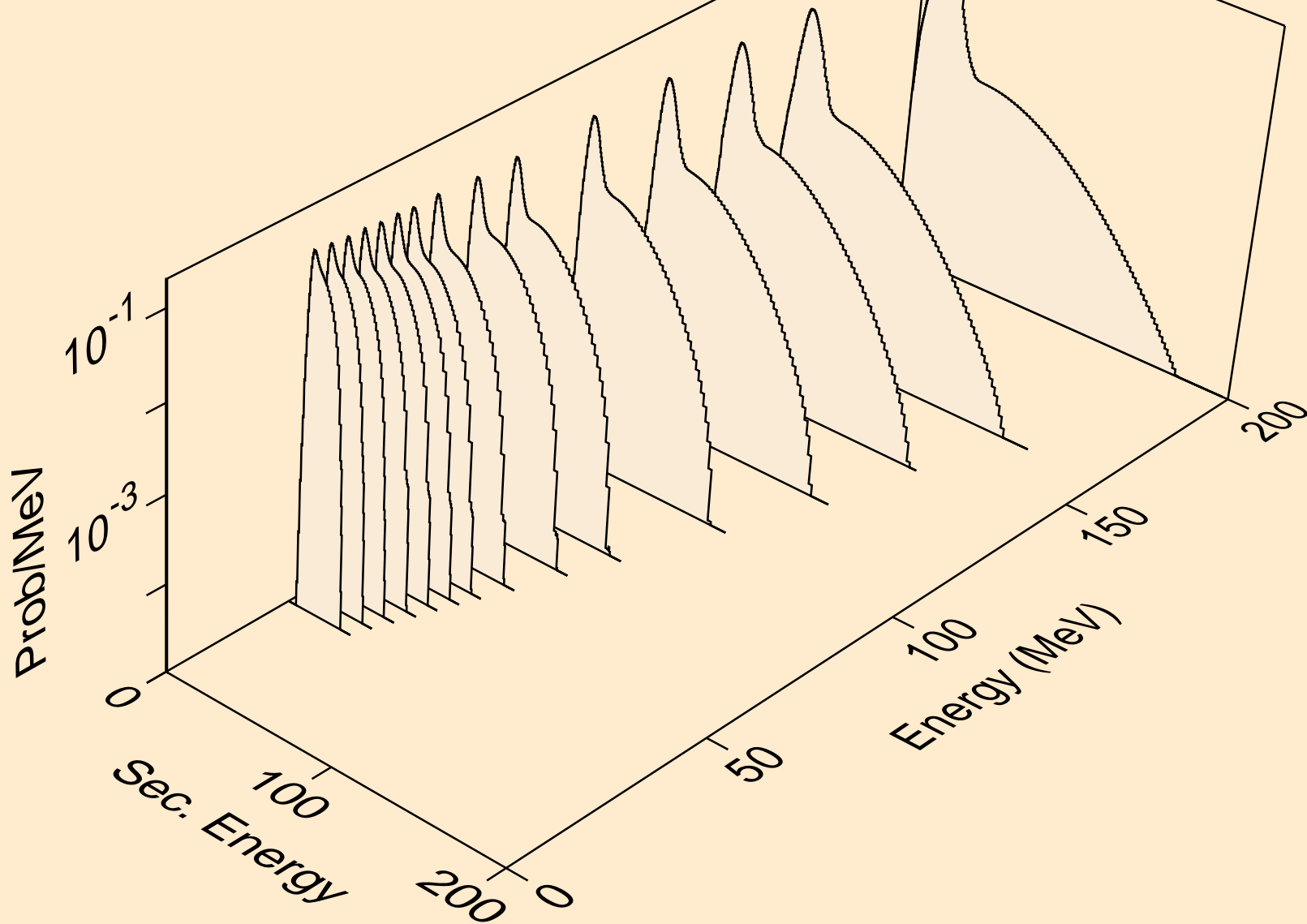
MAT=4019 ACE FILE PRODUCED AT NEA WITH NDEC
he3s from (n,n*)he3



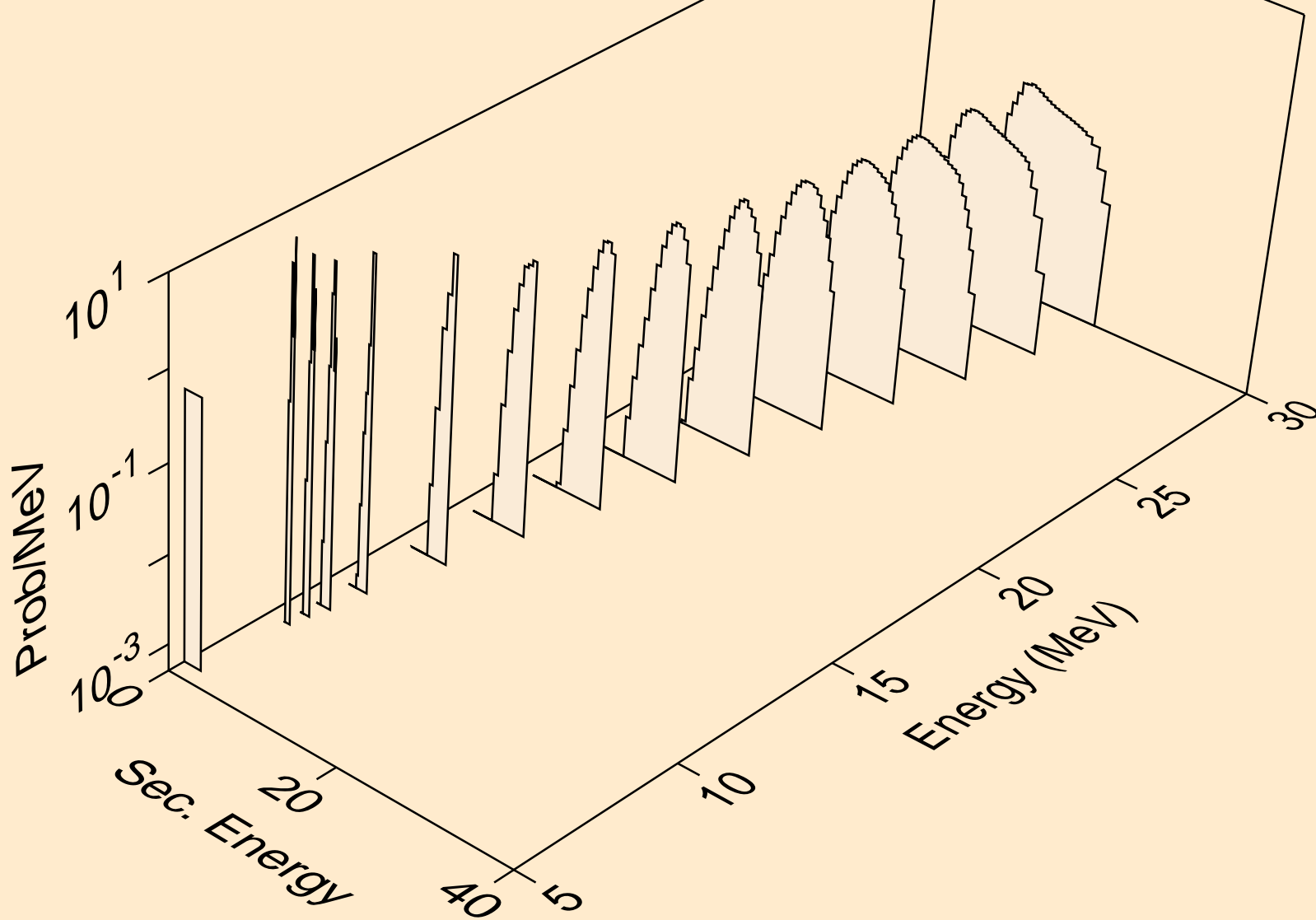
MAT=4019 ACE FILE PRODUCED AT NEA WITH NDEC
he3s from (n,he3)



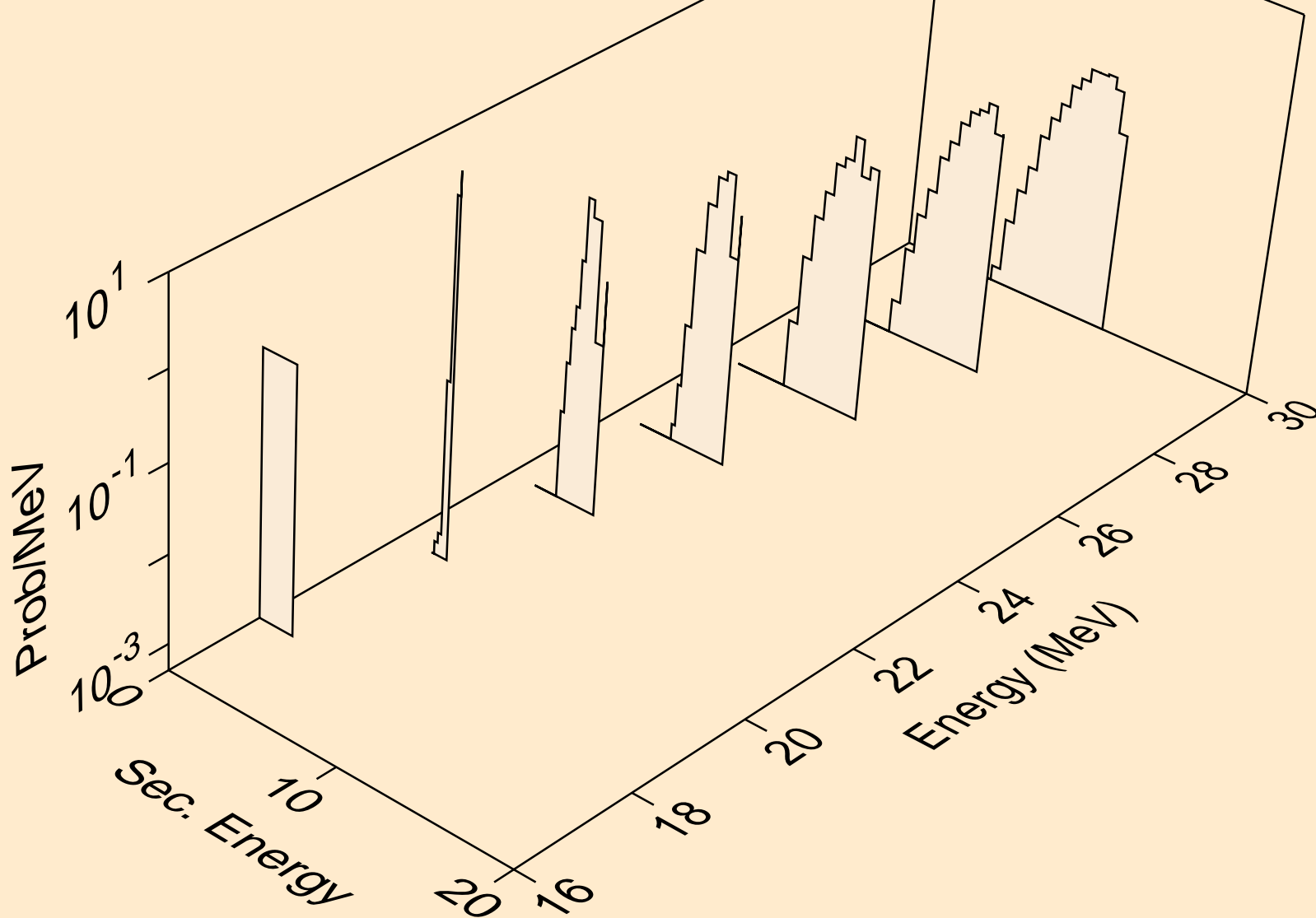
MAT=4019 ACE FILE PRODUCED AT NEA WITH NDEC
alphas from (n,x)



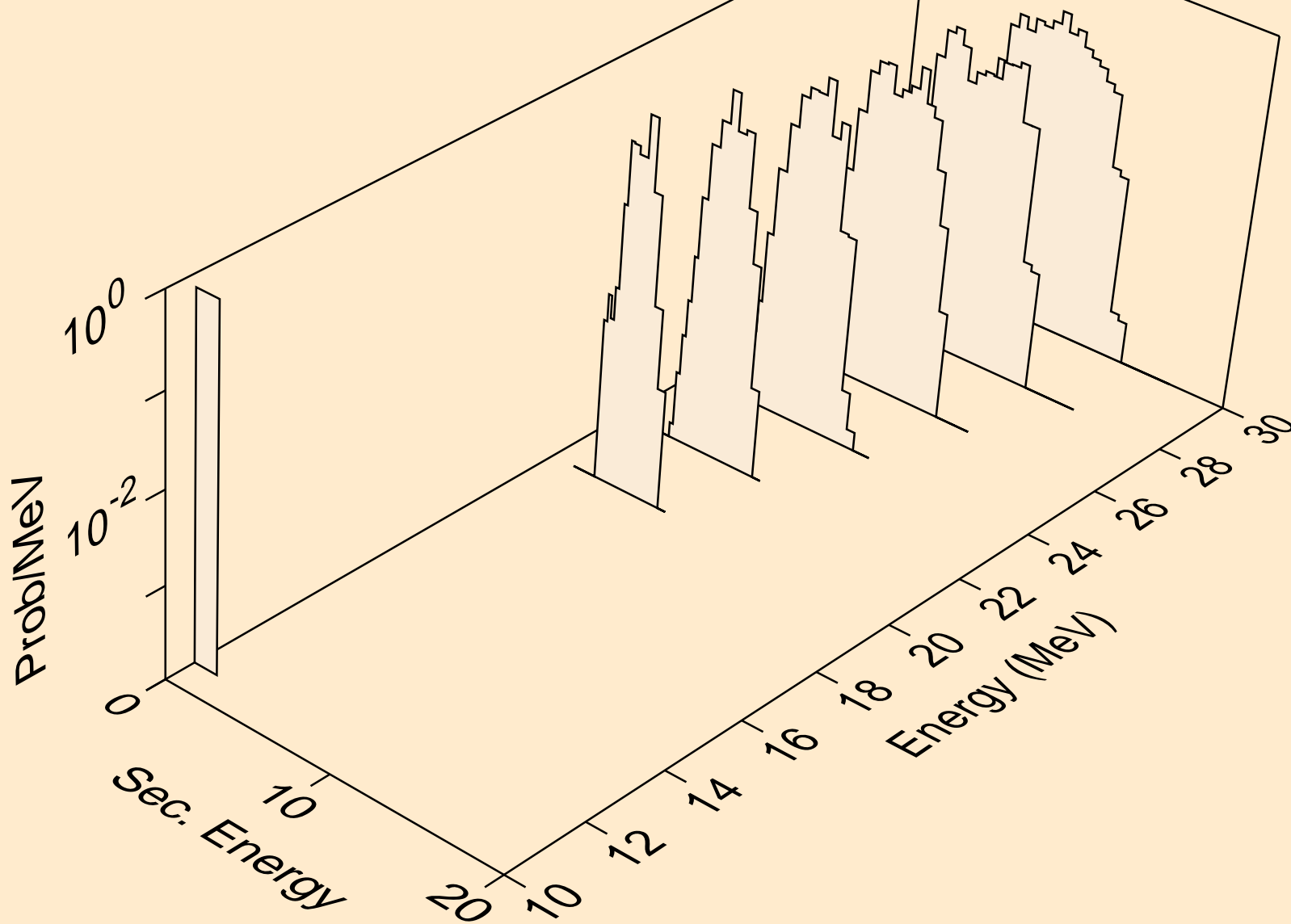
MAT=4019 ACE FILE PRODUCED AT NEA WITH NDEC
alphas from (n,n*)a



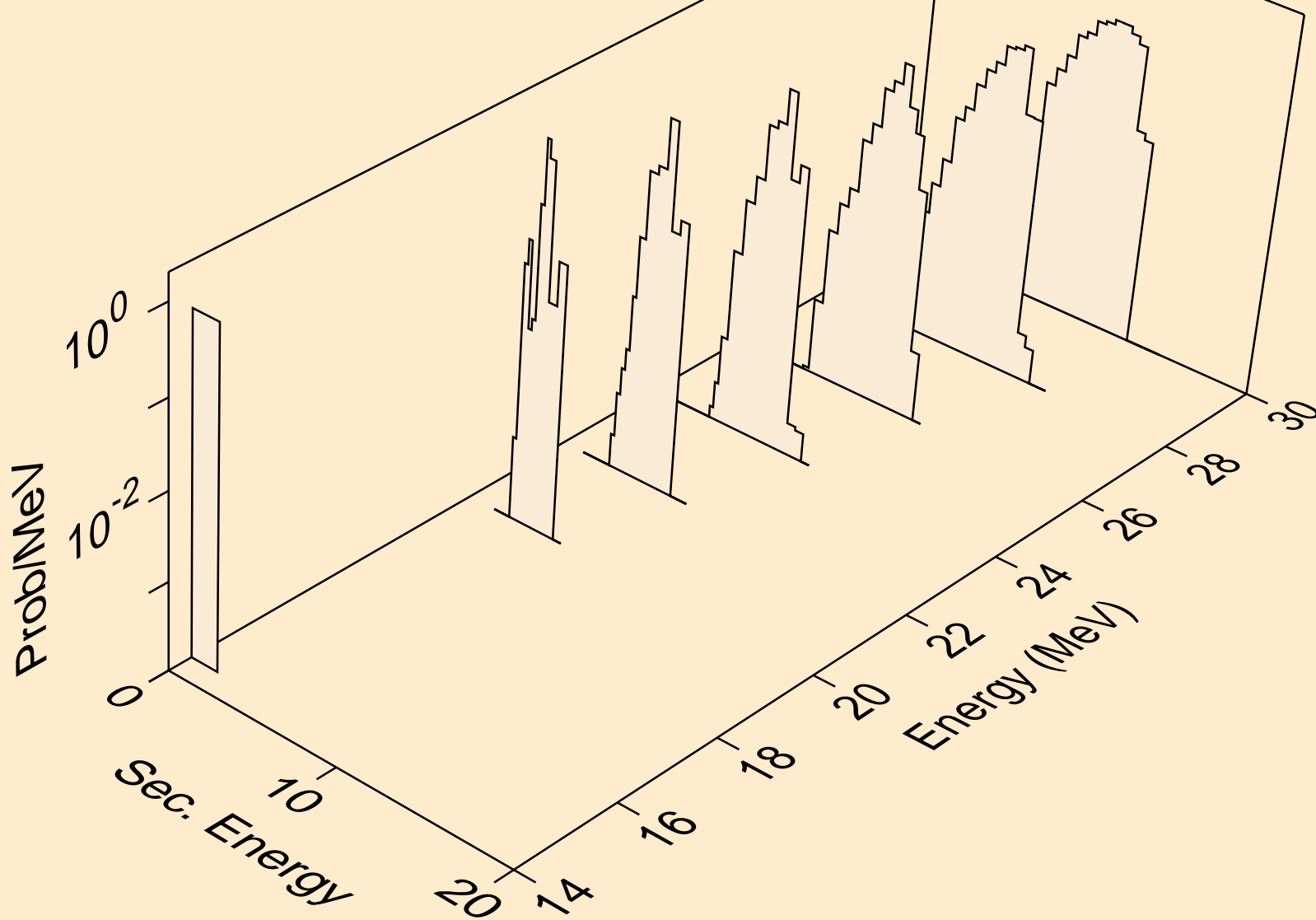
MAT=4019 ACE FILE PRODUCED AT NEA WITH NDEC
alphas from (n,2n)a



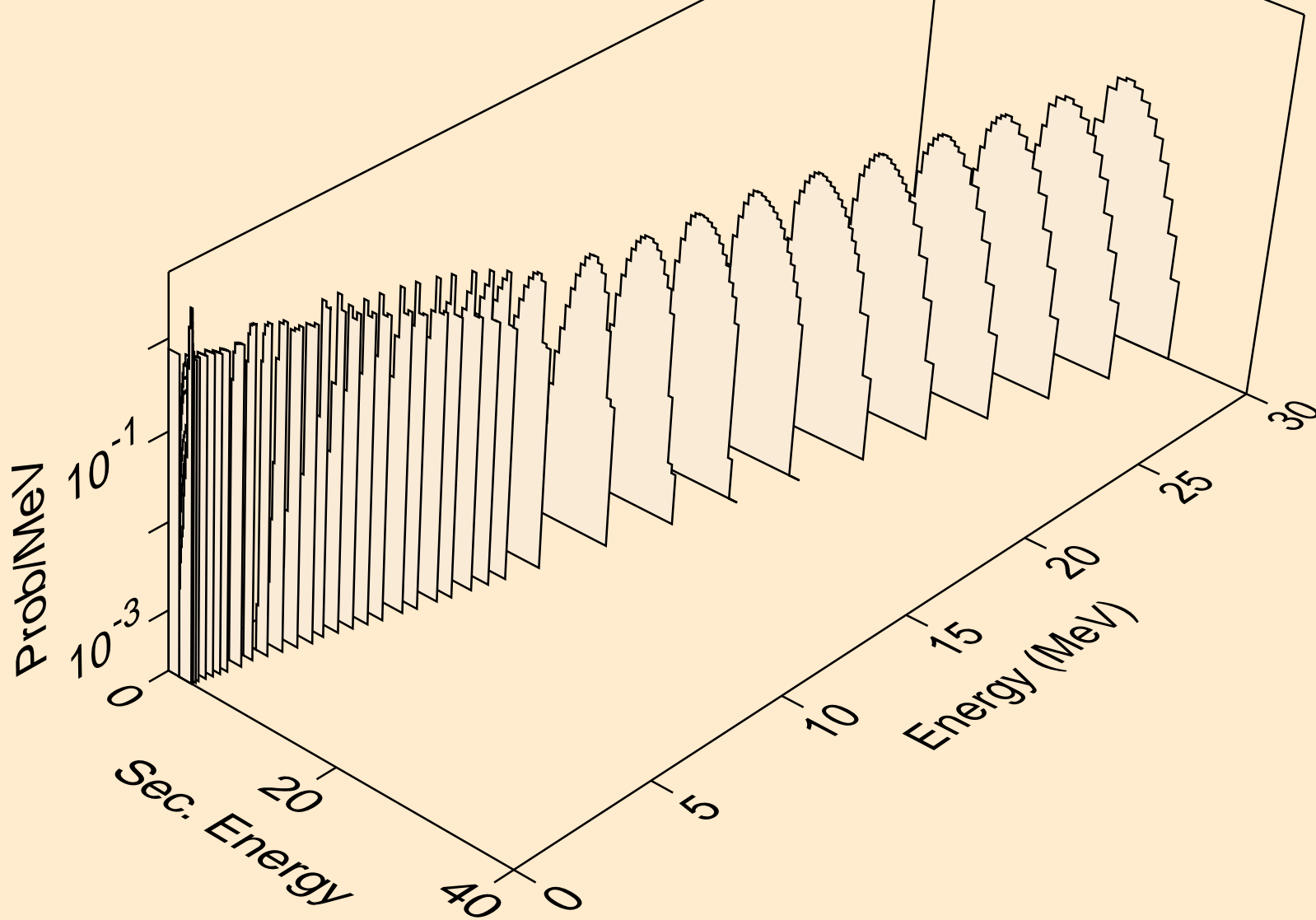
MAT=4019 ACE FILE PRODUCED AT NEA WITH NDEC
alphas from (n,n*)2a



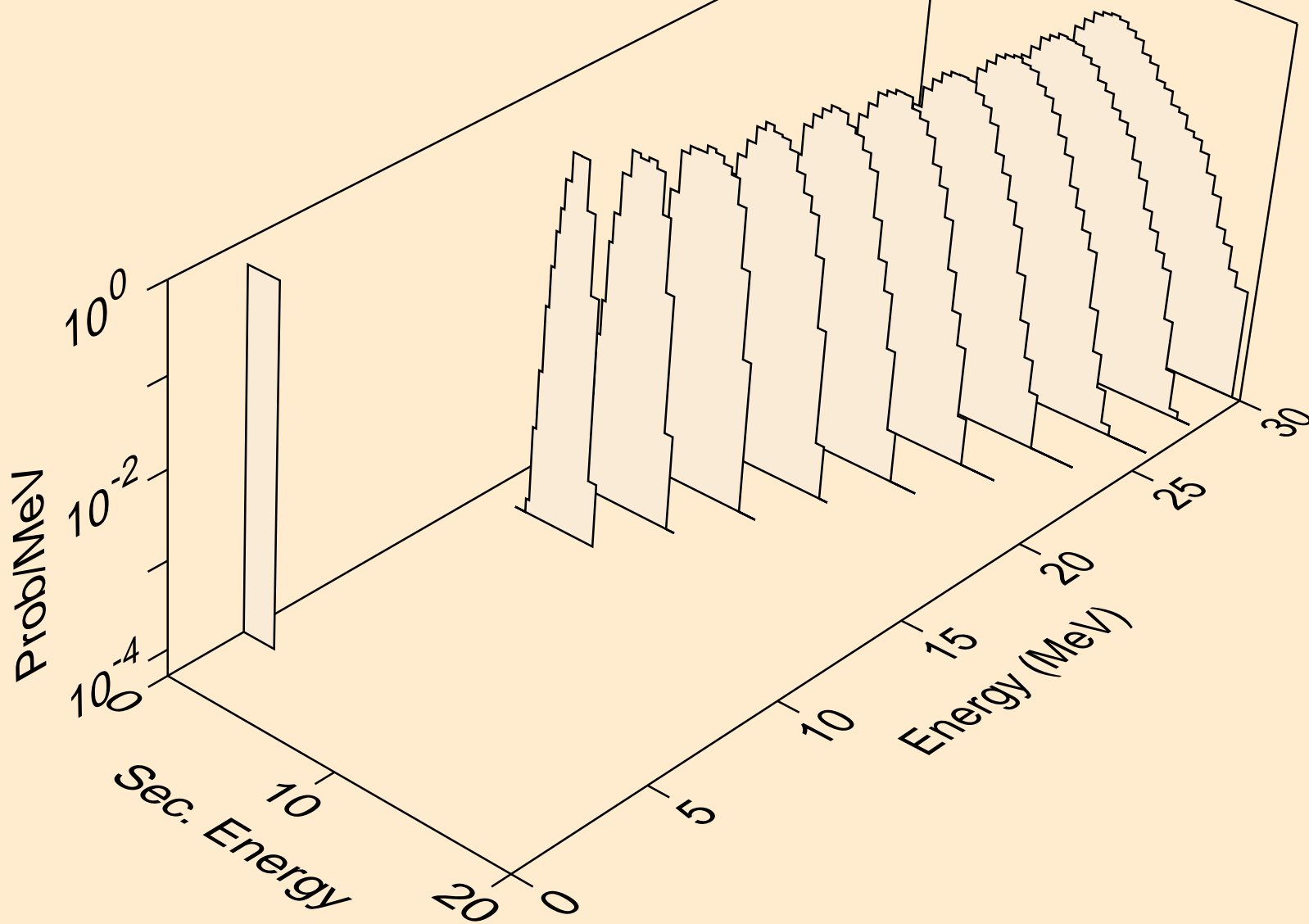
MAT=4019 ACE FILE PRODUCED AT NEA WITH NDEC
alphas from (n,npa)



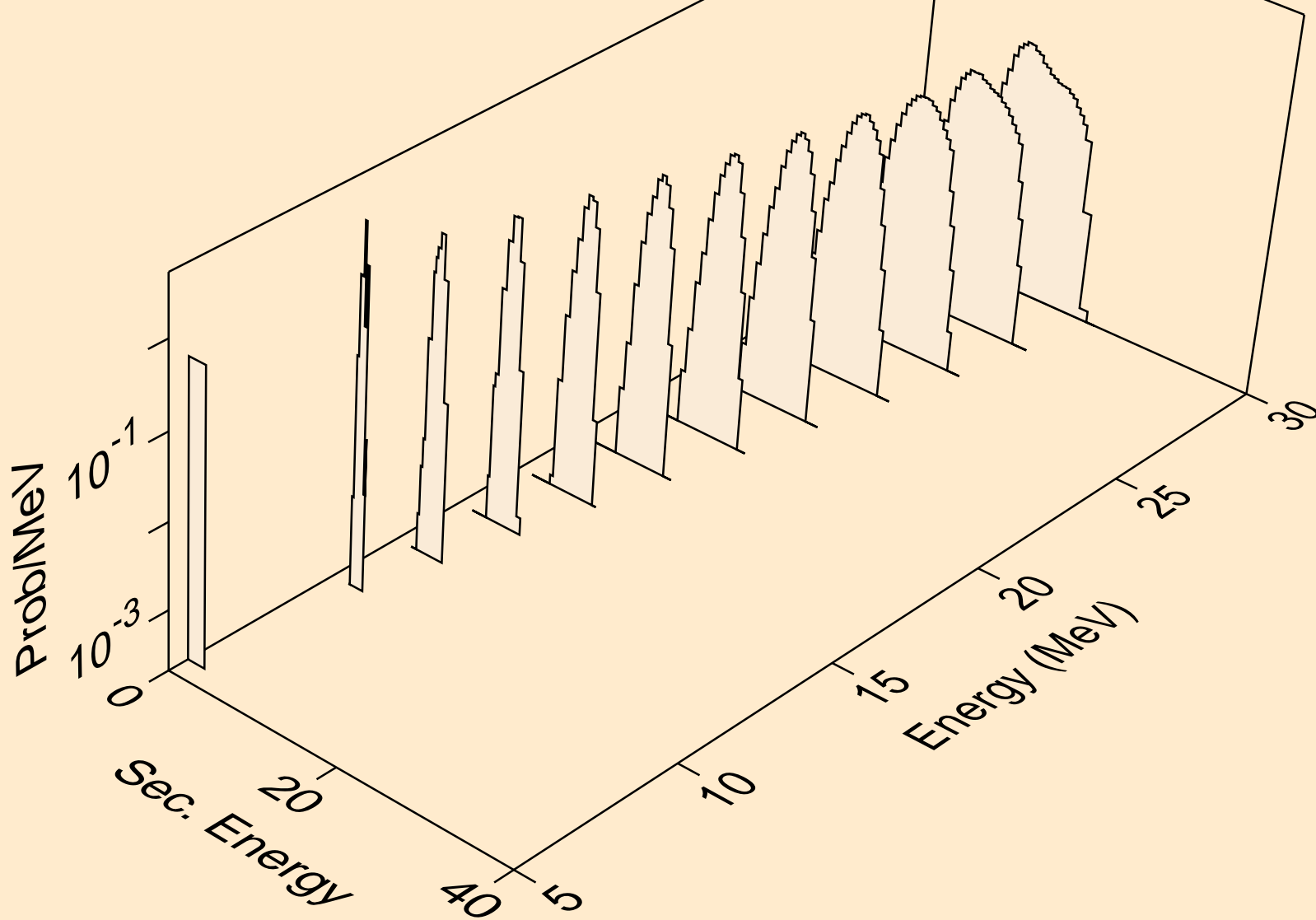
MAT=4019 ACE FILE PRODUCED AT NEA WITH NDEC
alphas from (n,a)



MAT=4019 ACE FILE PRODUCED AT NEA WITH NDEC
alphas from (n,2a)



MAT=4019 ACE FILE PRODUCED AT NEA WITH NDEC
alphas from (n,pa)



MAT=4019 ACE FILE PRODUCED AT NEA WITH NDEC
alphas from (n,da)

