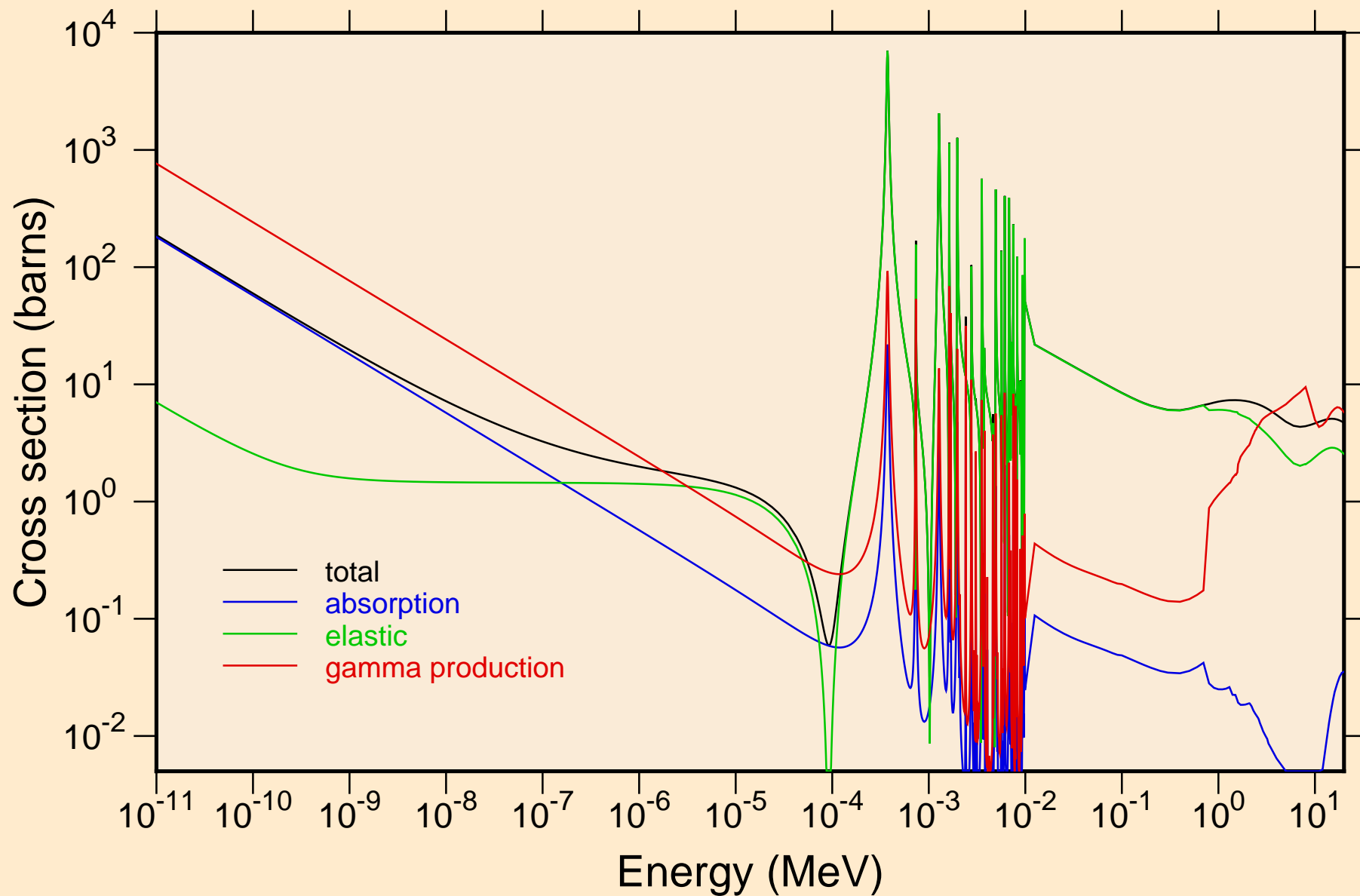
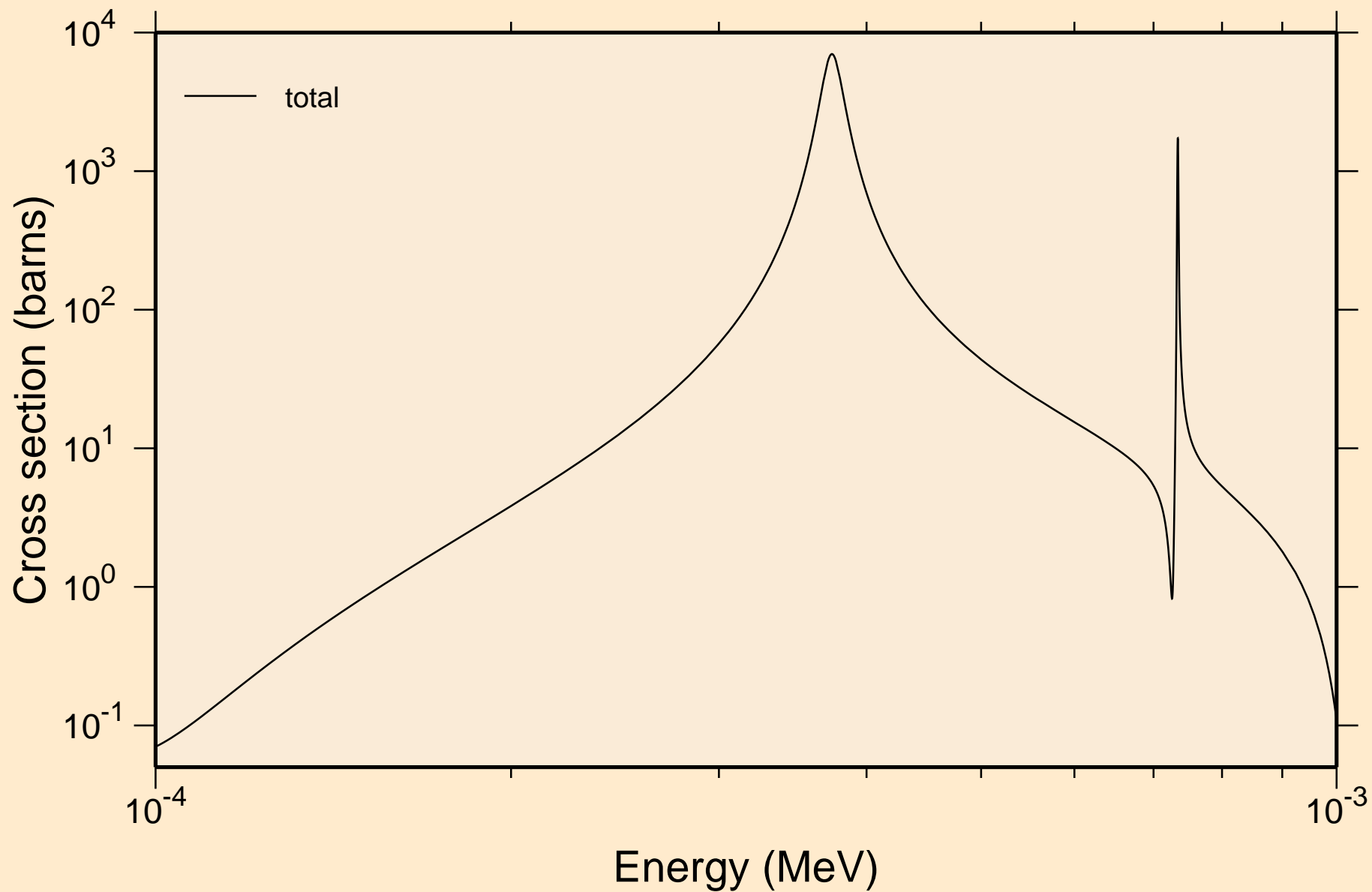


# MAT=6031 ACE FILE PRODUCED AT NEA WITH NDEC

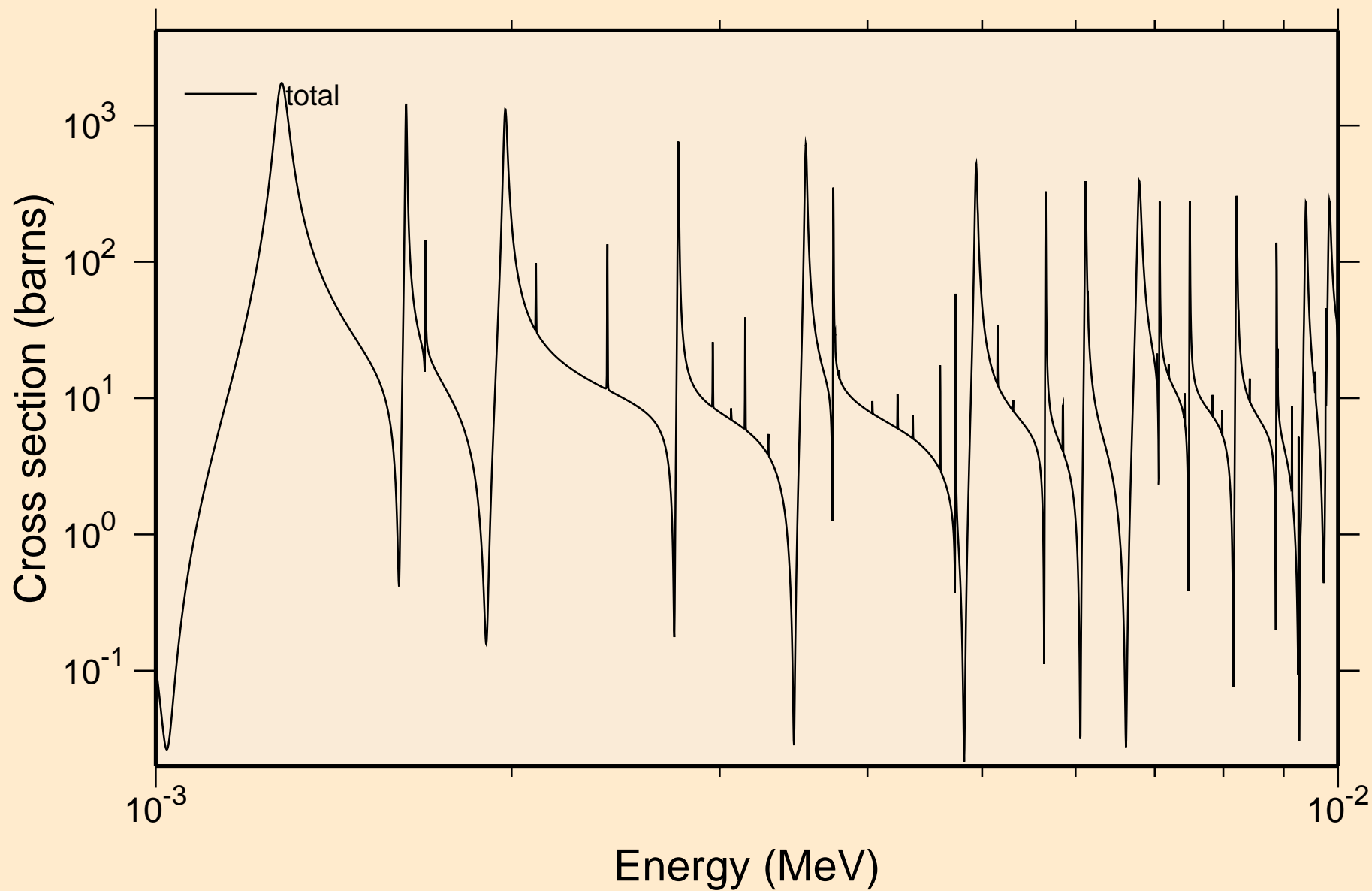
## Principal cross sections



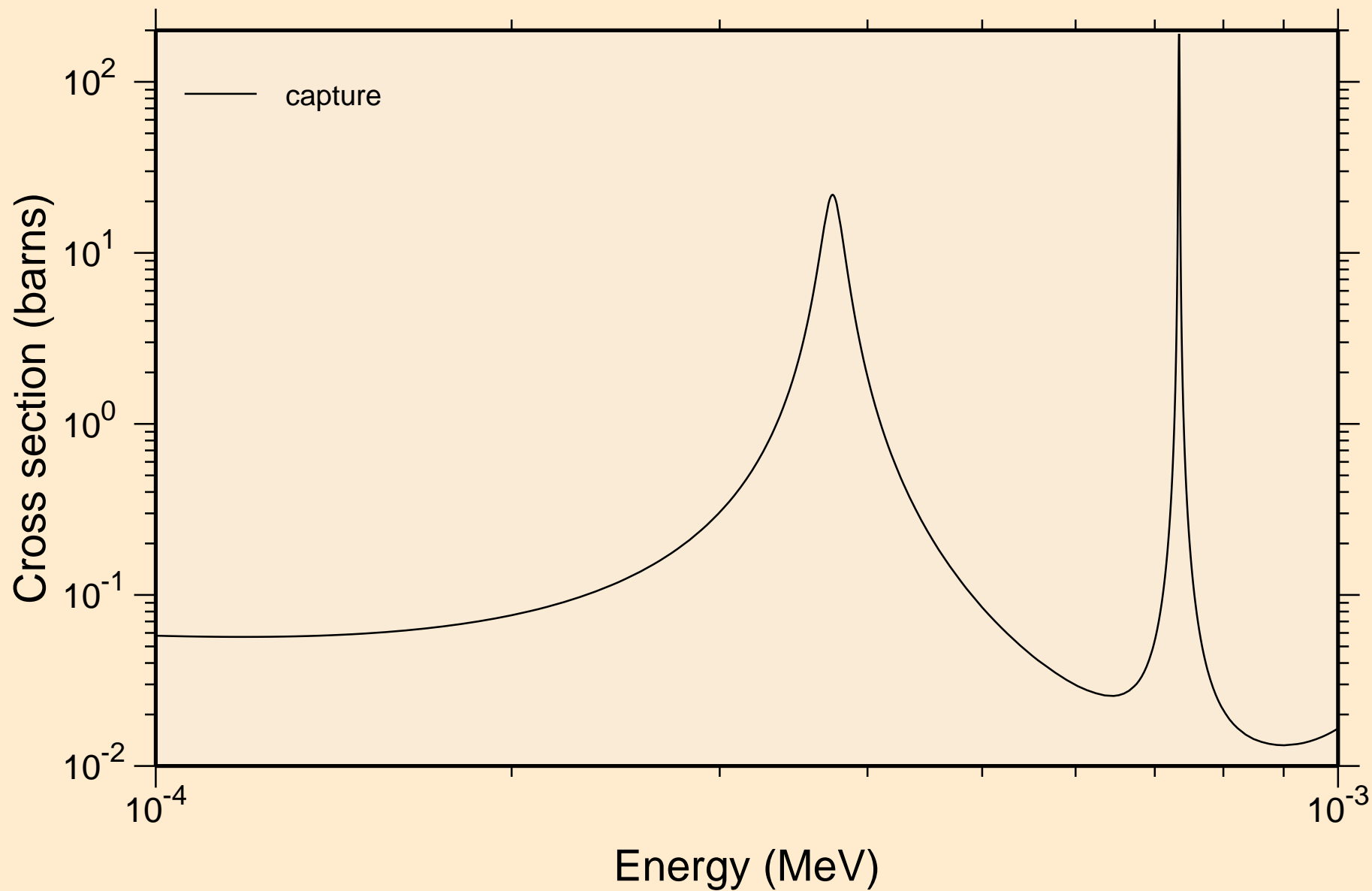
MAT=6031 ACE FILE PRODUCED AT NEA WITH NDEC  
resonance total cross section



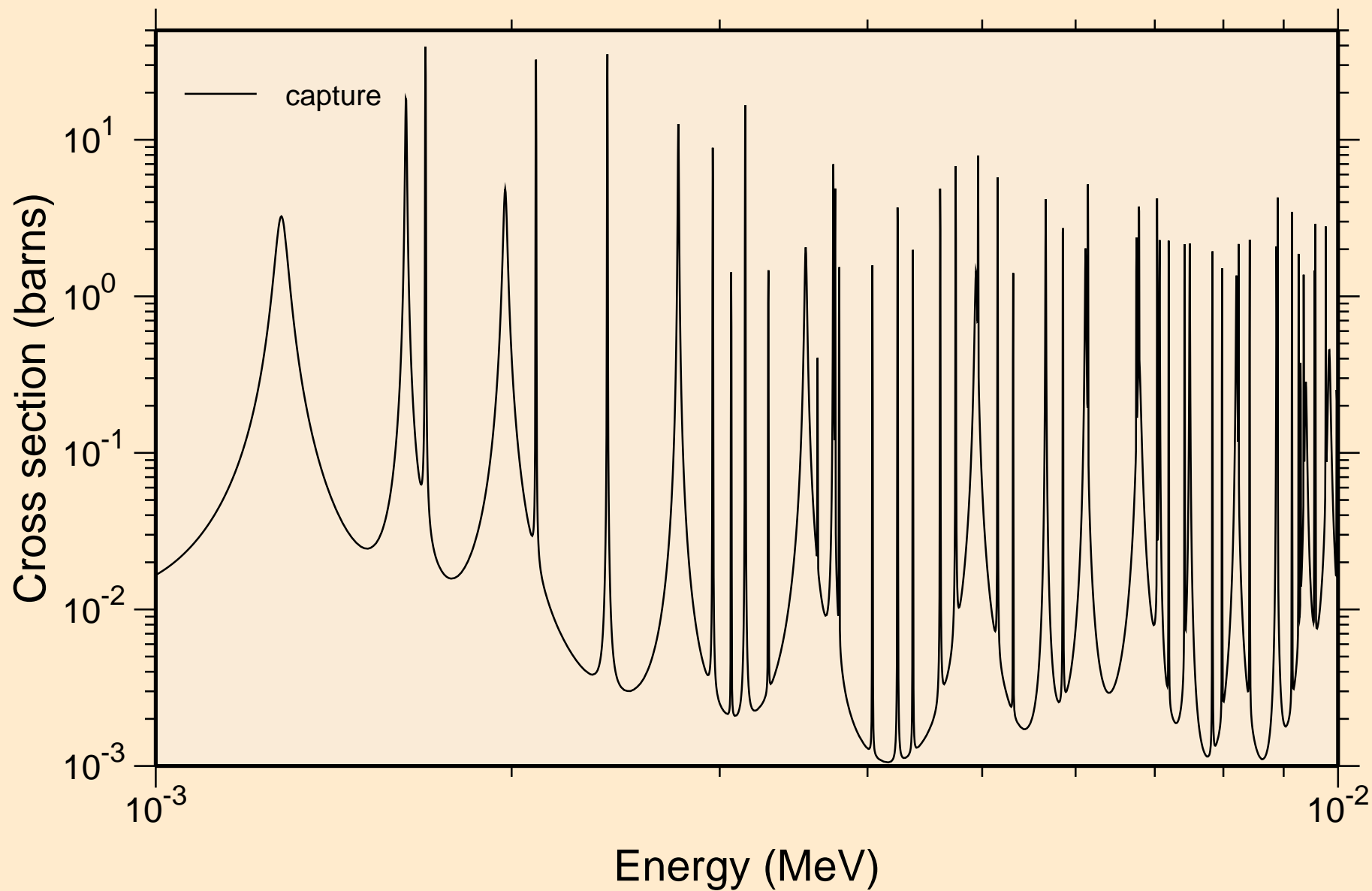
MAT=6031 ACE FILE PRODUCED AT NEA WITH NDEC  
resonance total cross section



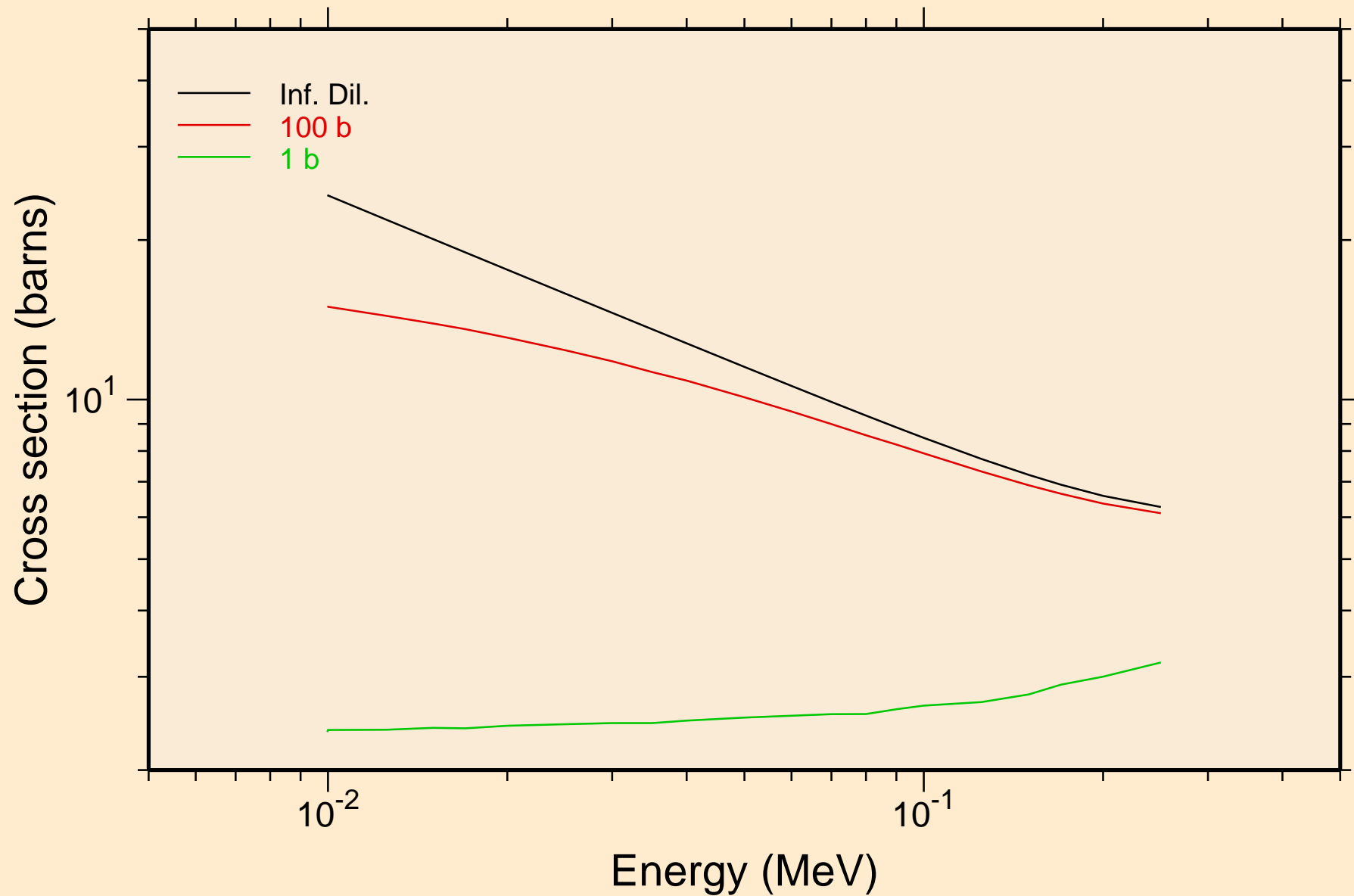
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resonance absorption cross sections



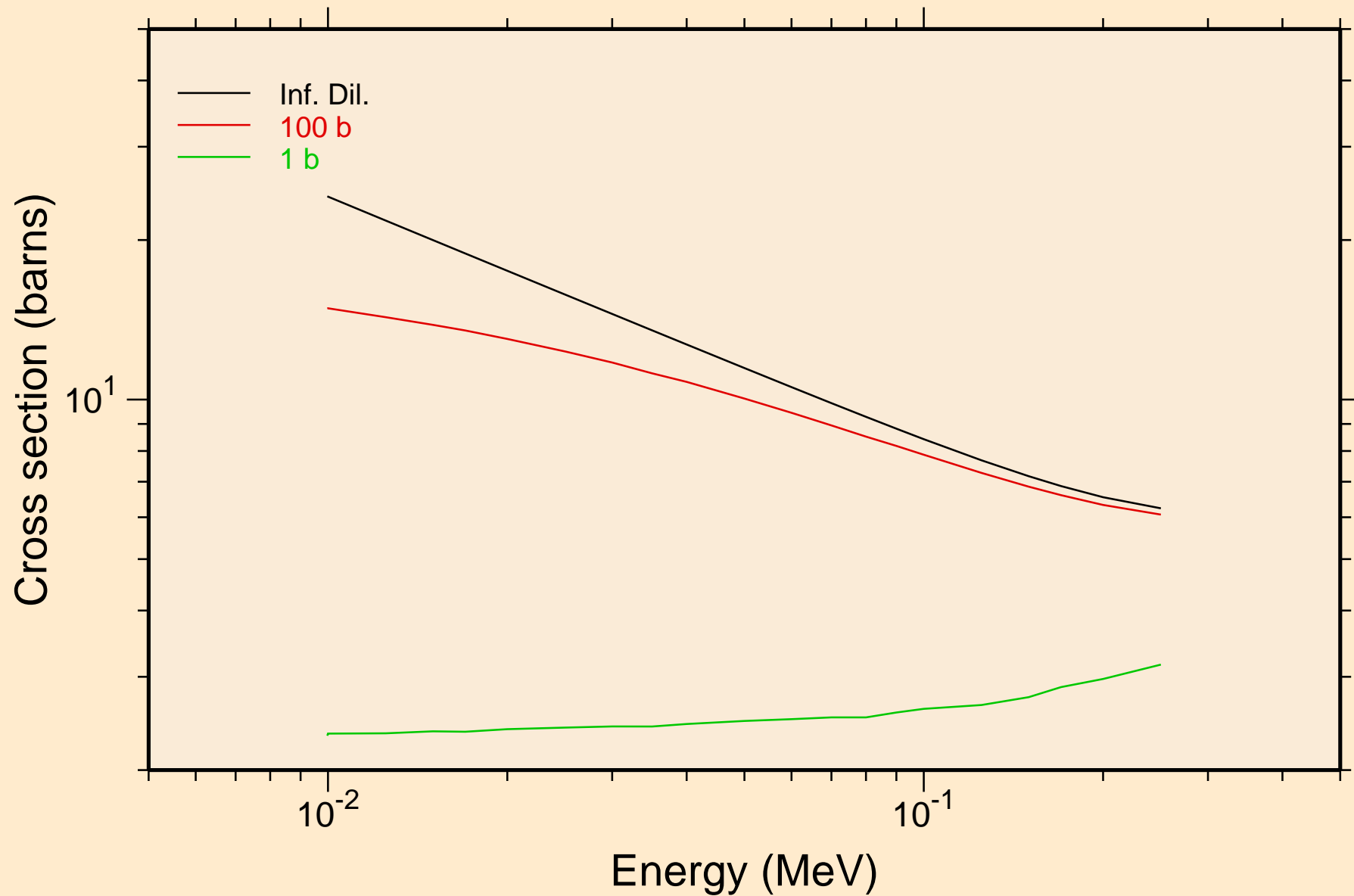
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resonance absorption cross sections



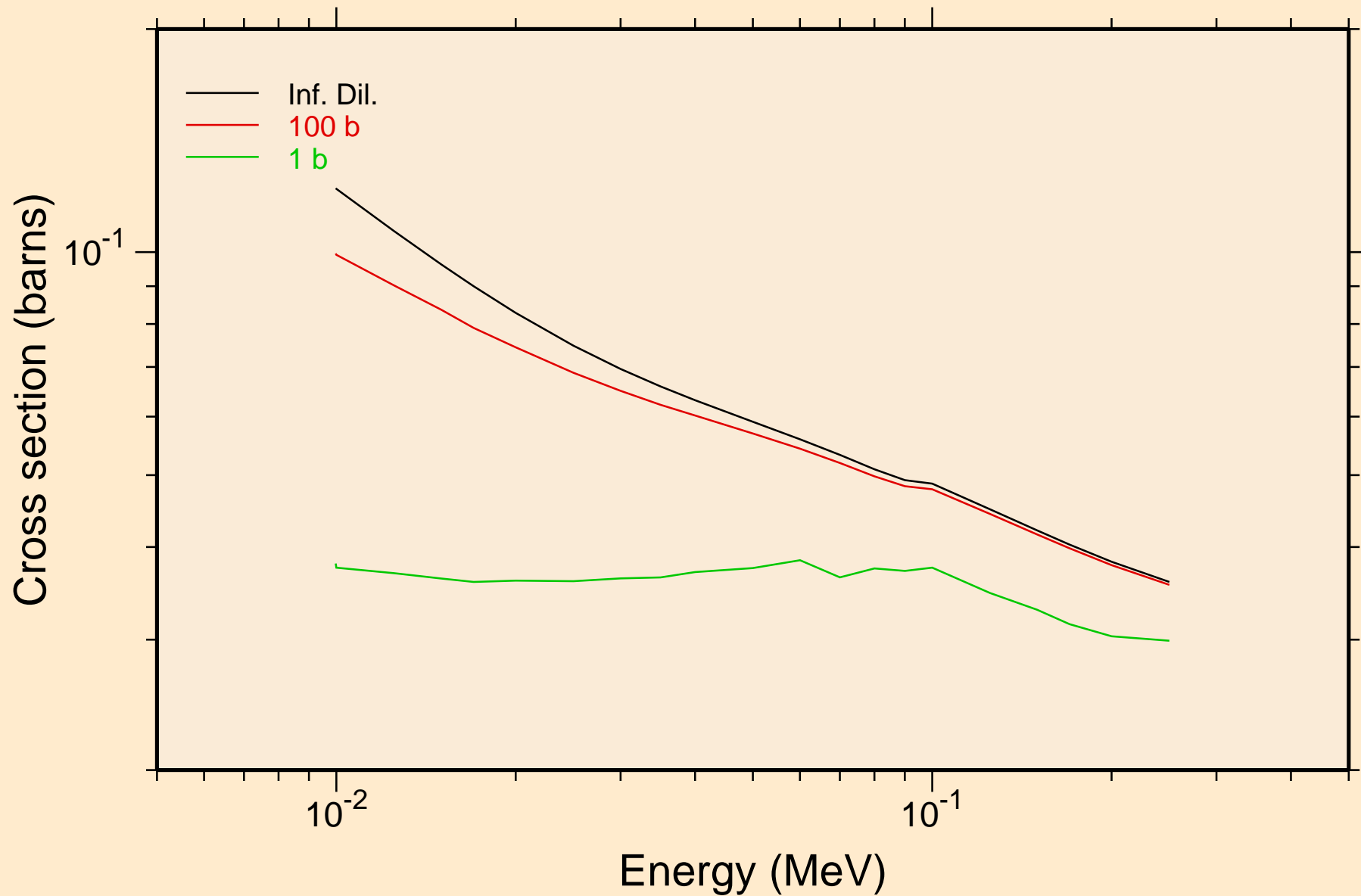
MAT=6031 ACE FILE PRODUCED AT NEA WITH NDEC  
UR total cross section



MAT=6031 ACE FILE PRODUCED AT NEA WITH NDEC  
UR elastic cross section

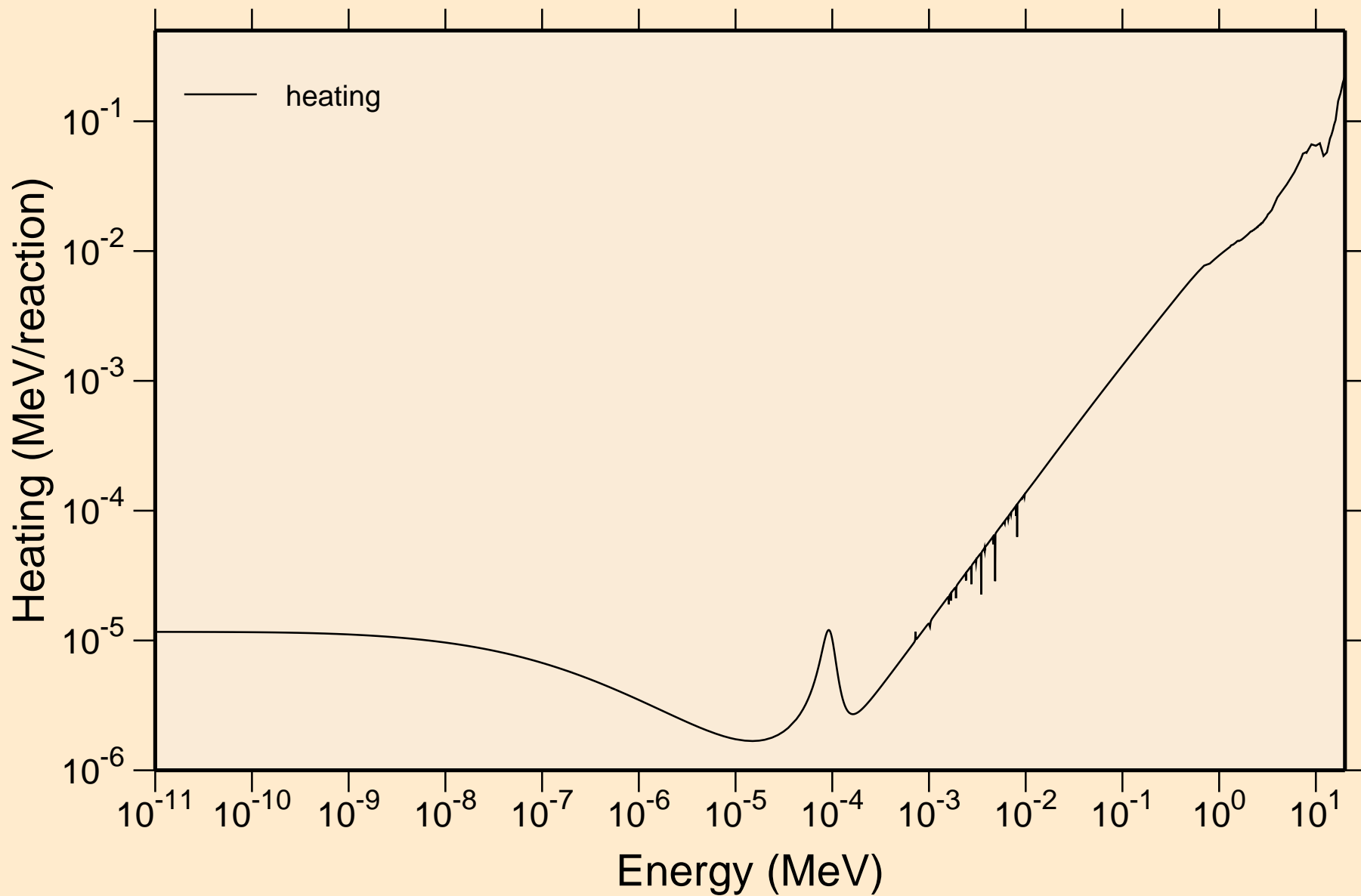


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UR capture cross section

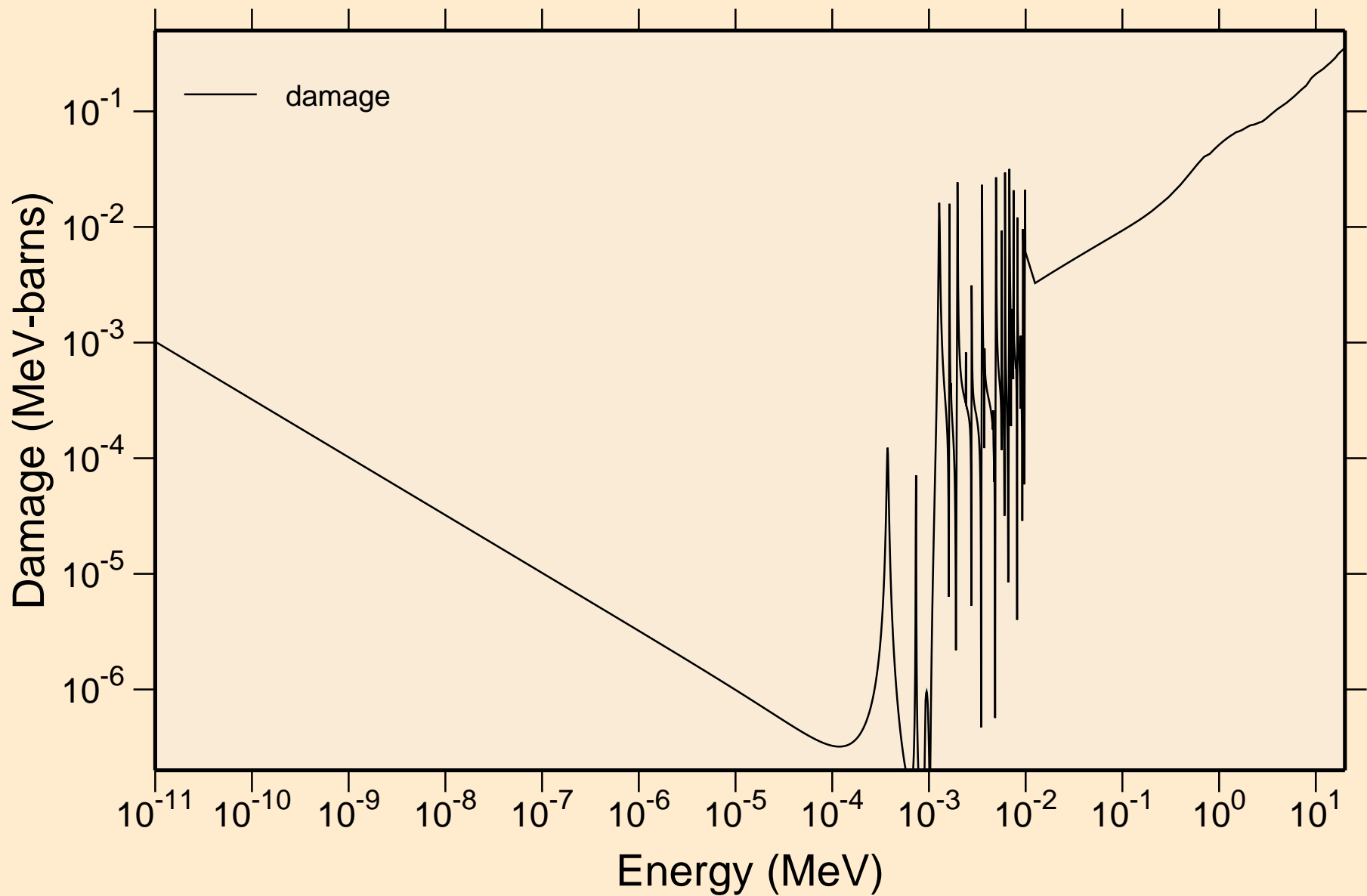




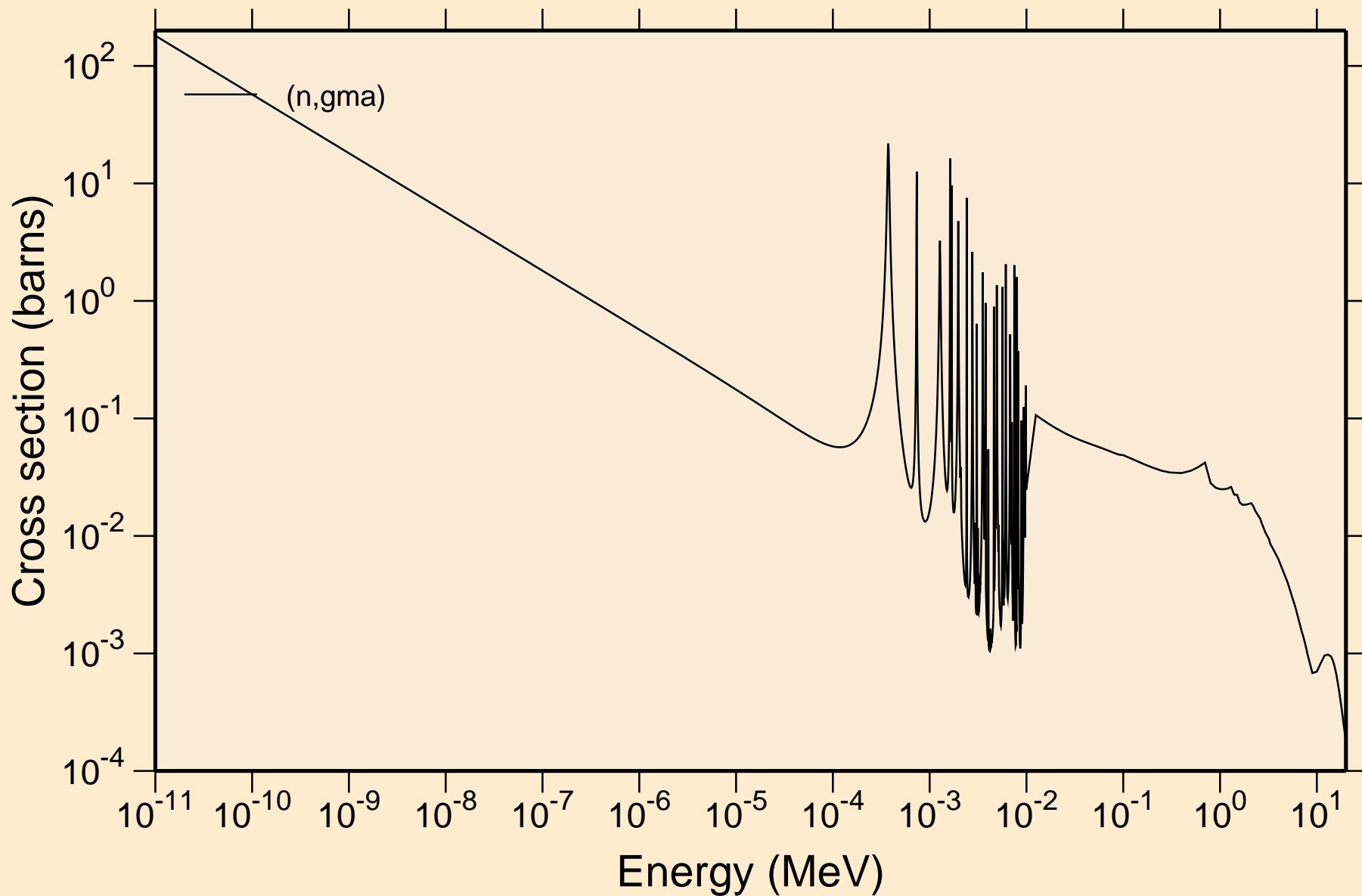
MAT=6031 ACE FILE PRODUCED AT NEA WITH NDEC  
Heating



MAT=6031 ACE FILE PRODUCED AT NEA WITH NDEC  
Damage

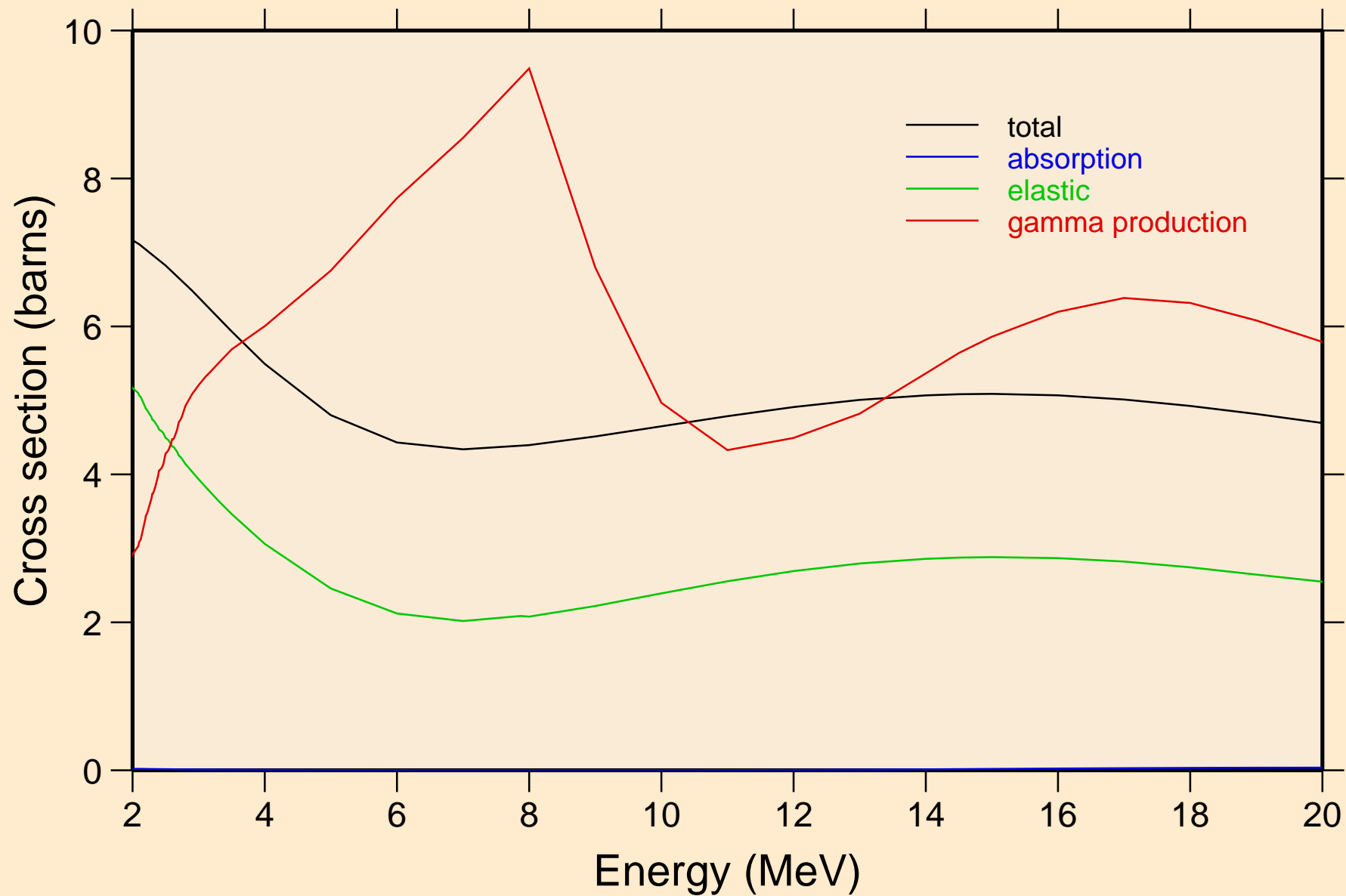


MAT=6031 ACE FILE PRODUCED AT NEA WITH NDEC  
Non-threshold reactions

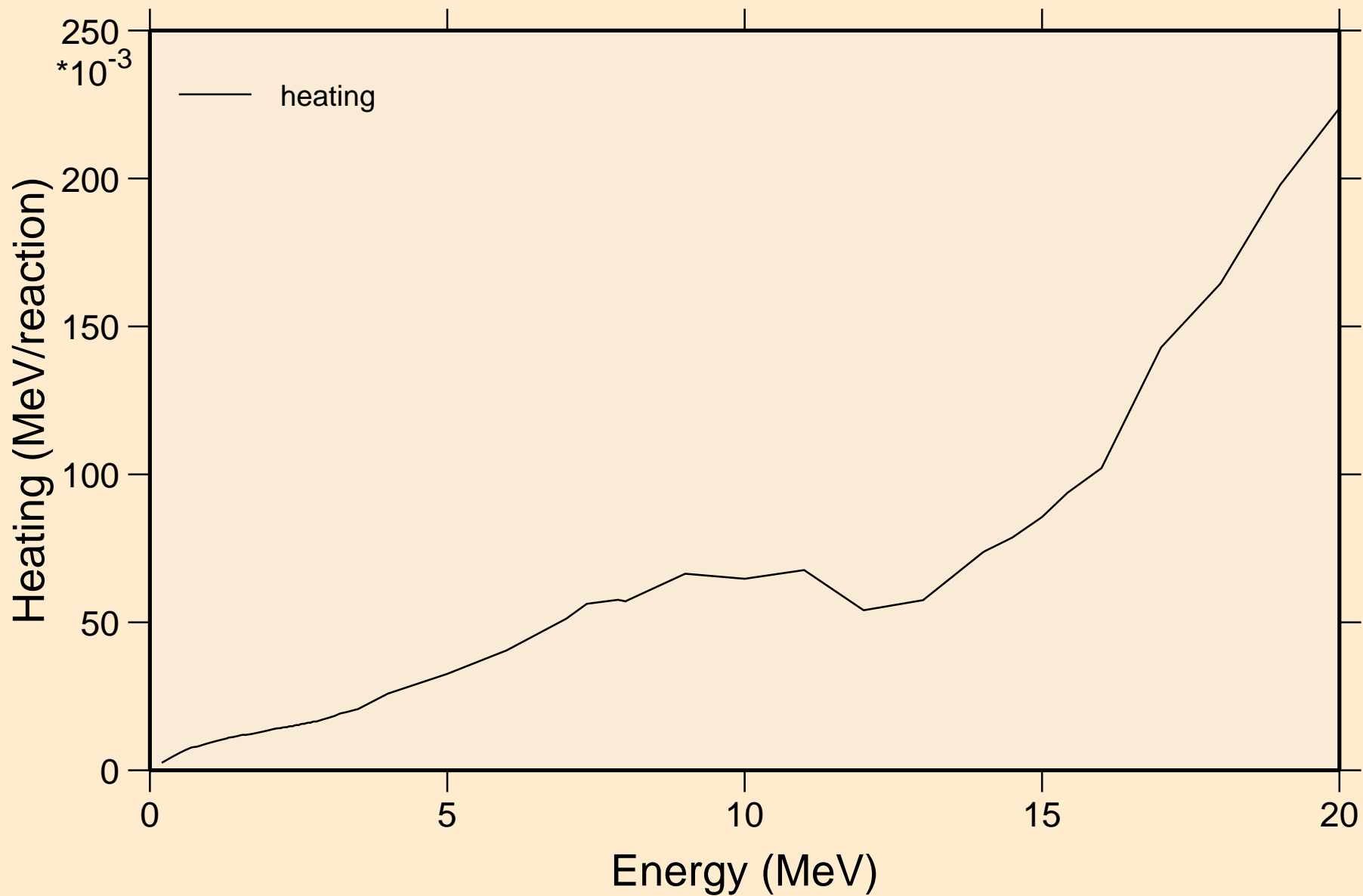


MAT=6031 ACE FILE PRODUCED AT NEA WITH NDEC

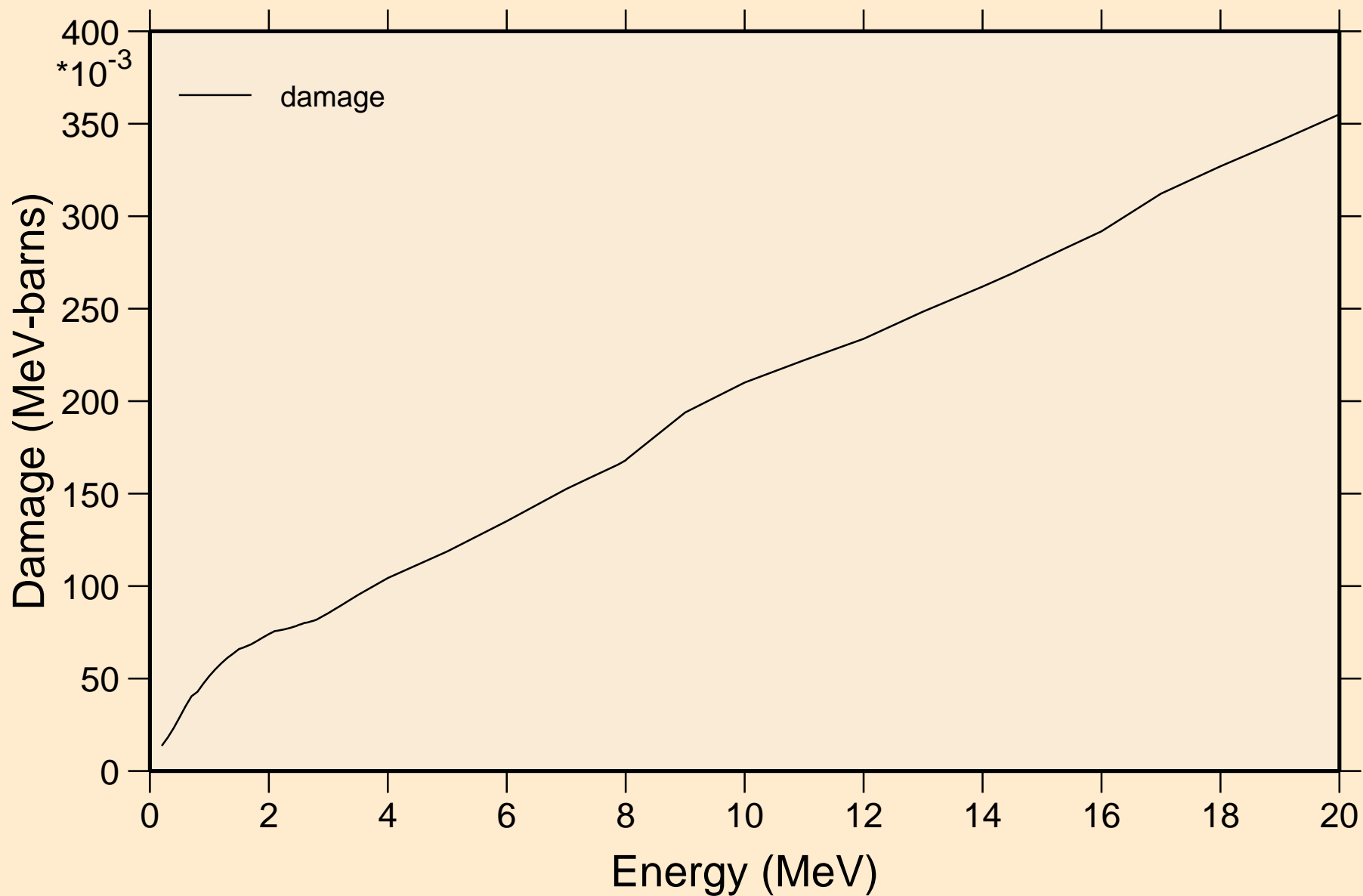
Principal cross sections



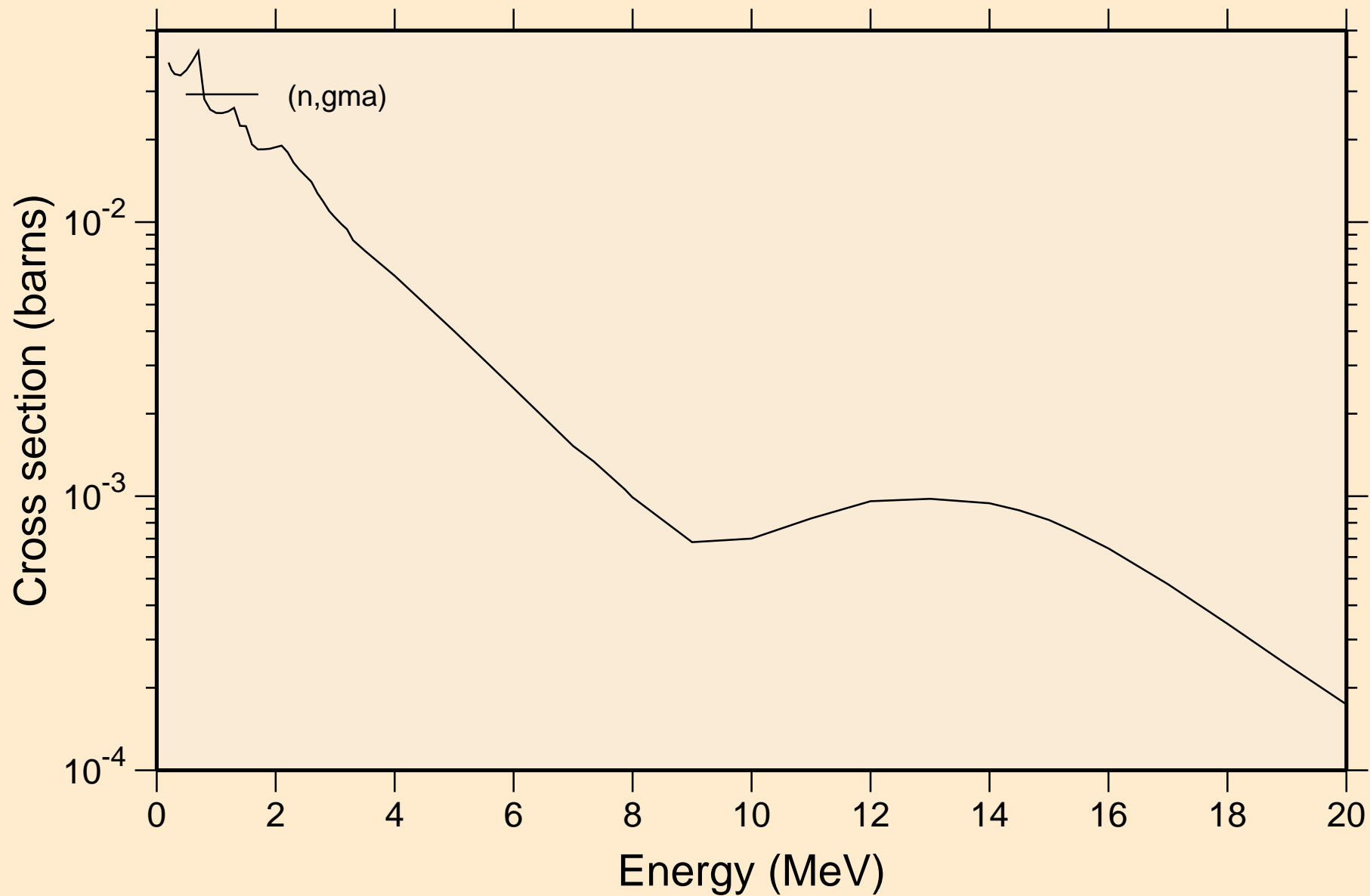
MAT=6031 ACE FILE PRODUCED AT NEA WITH NDEC  
Heating



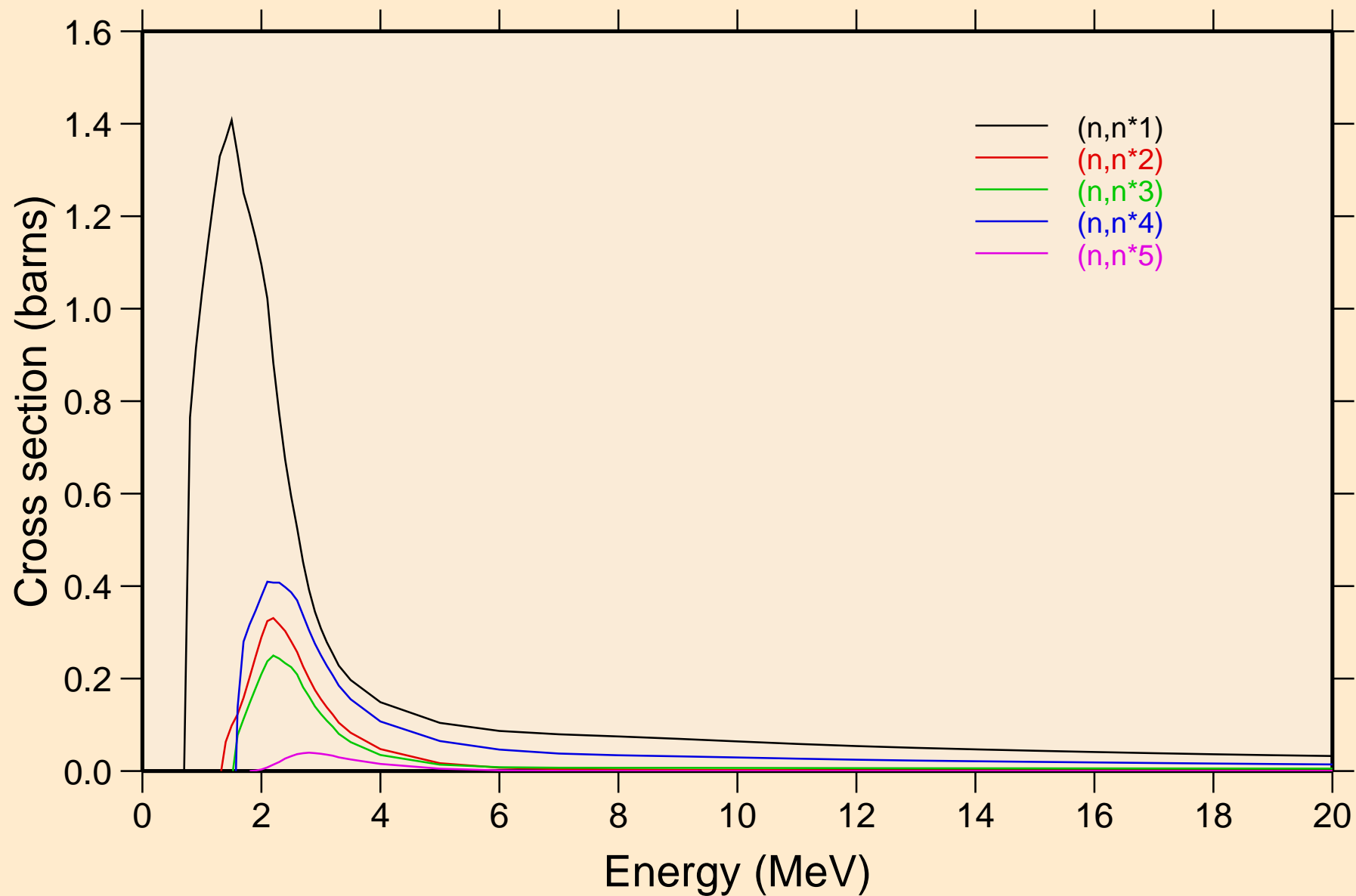
MAT=6031 ACE FILE PRODUCED AT NEA WITH NDEC  
Damage



MAT=6031 ACE FILE PRODUCED AT NEA WITH NDEC  
Non-threshold reactions

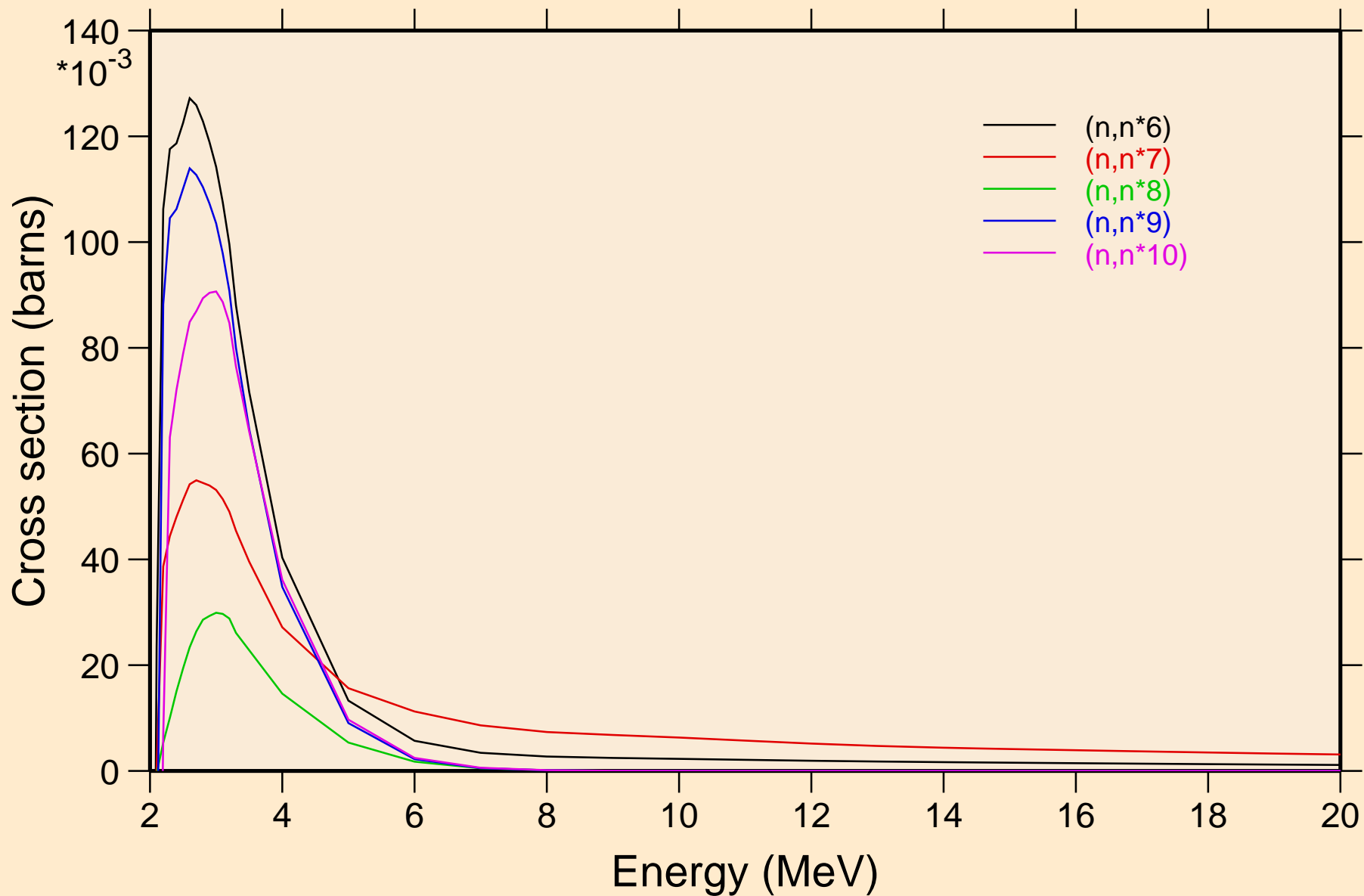


MAT=6031 ACE FILE PRODUCED AT NEA WITH NDEC  
Inelastic levels

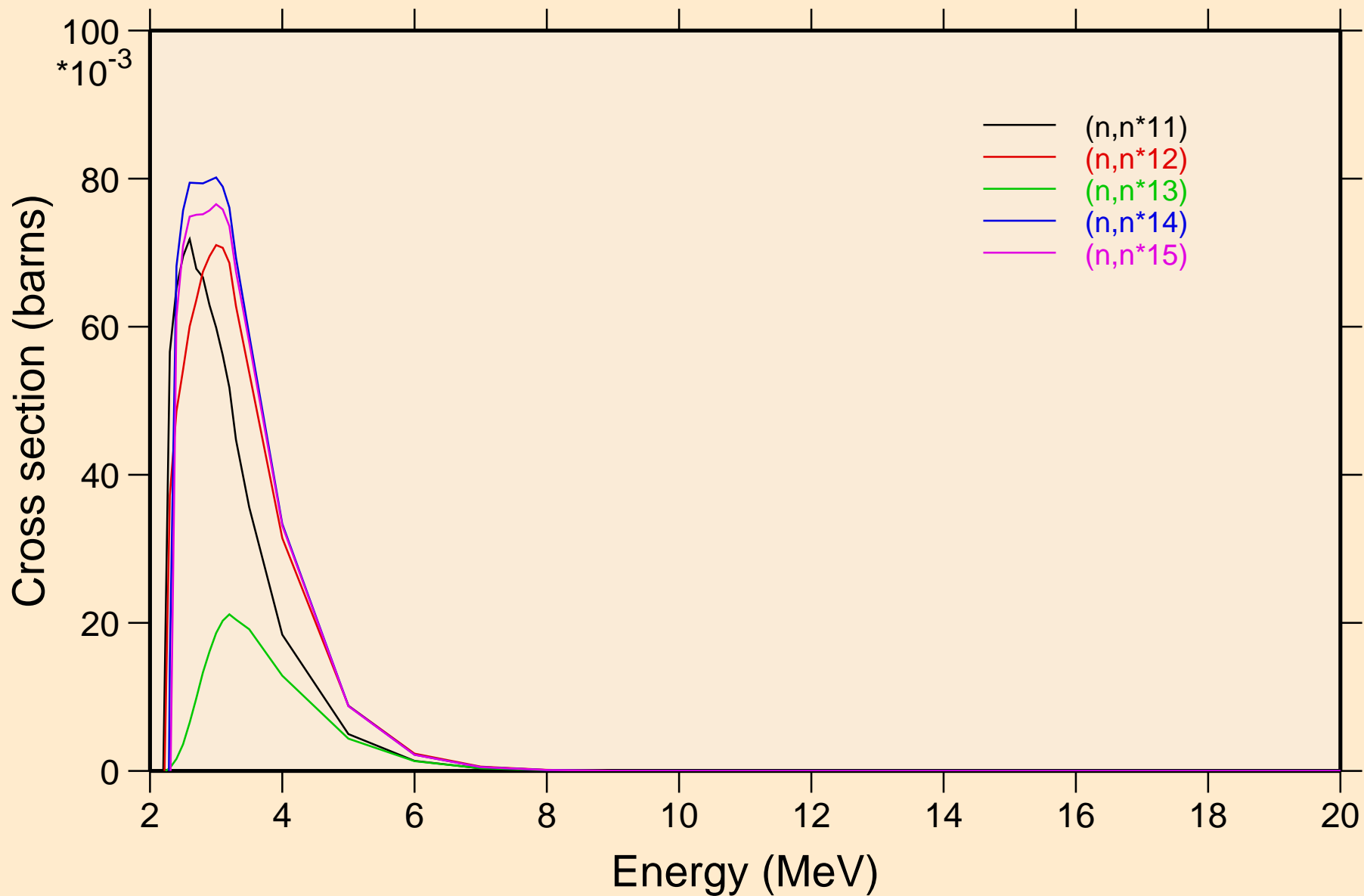




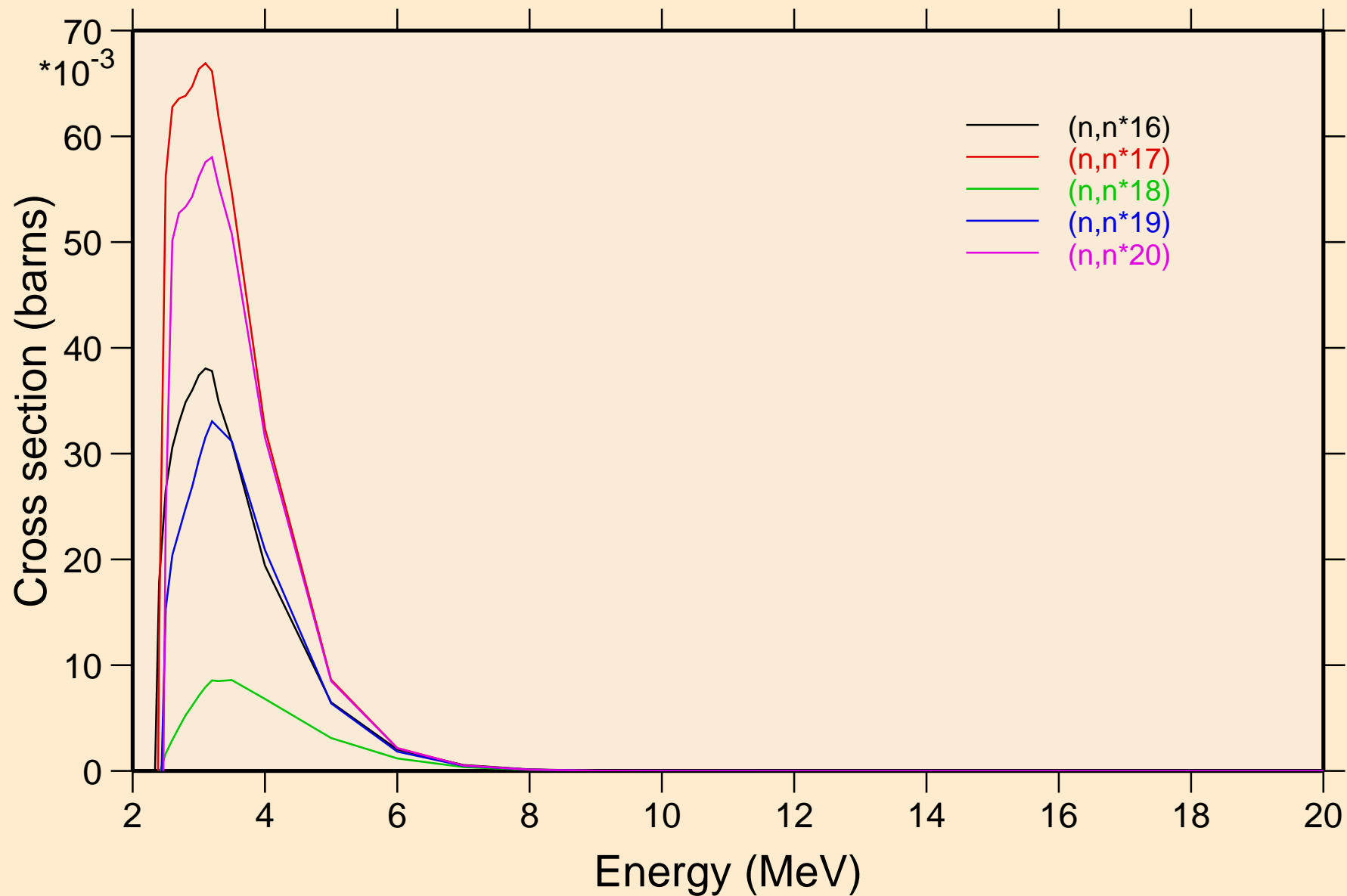
MAT=6031 ACE FILE PRODUCED AT NEA WITH NDEC  
Inelastic levels



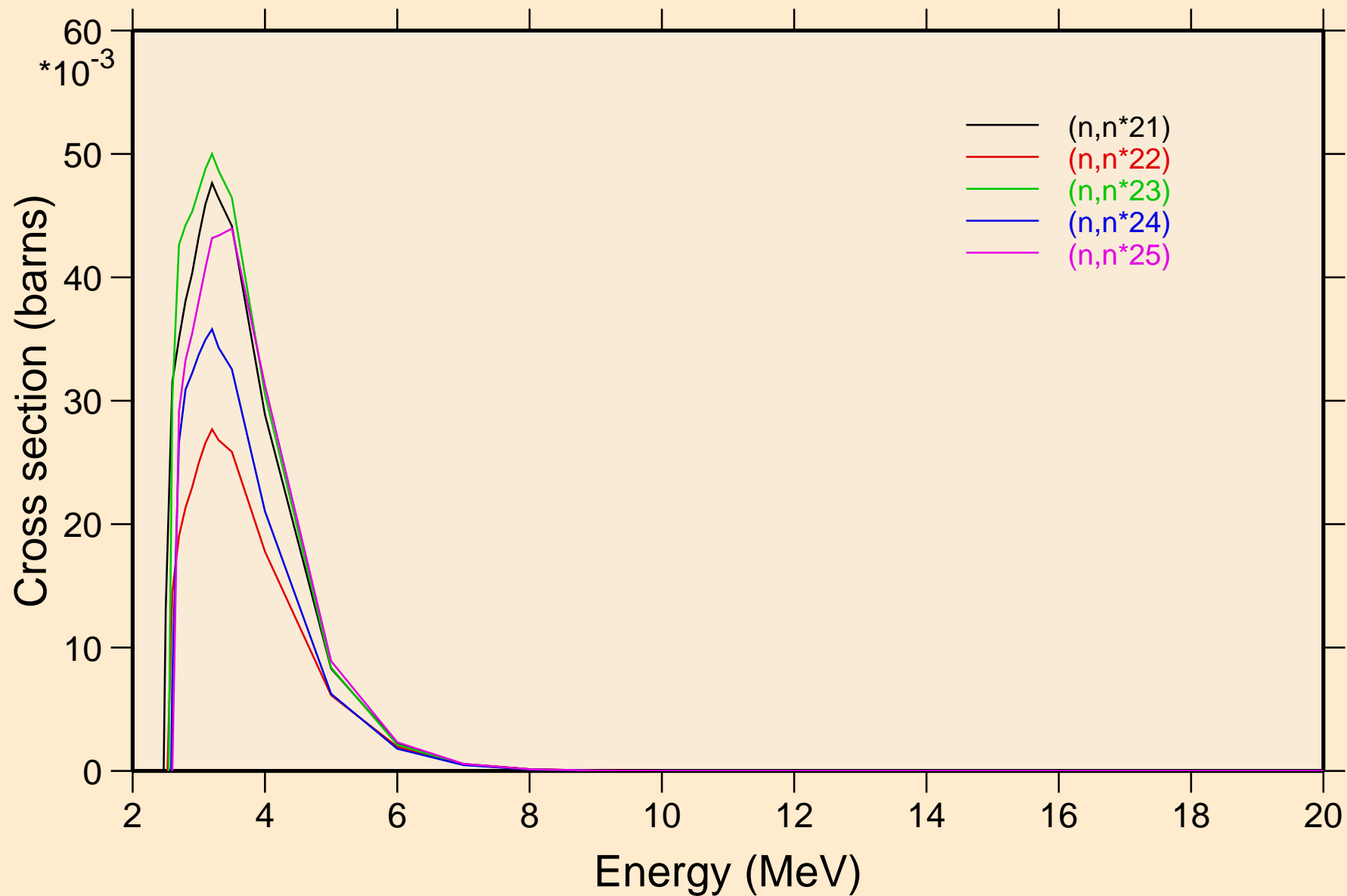
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Inelastic levels



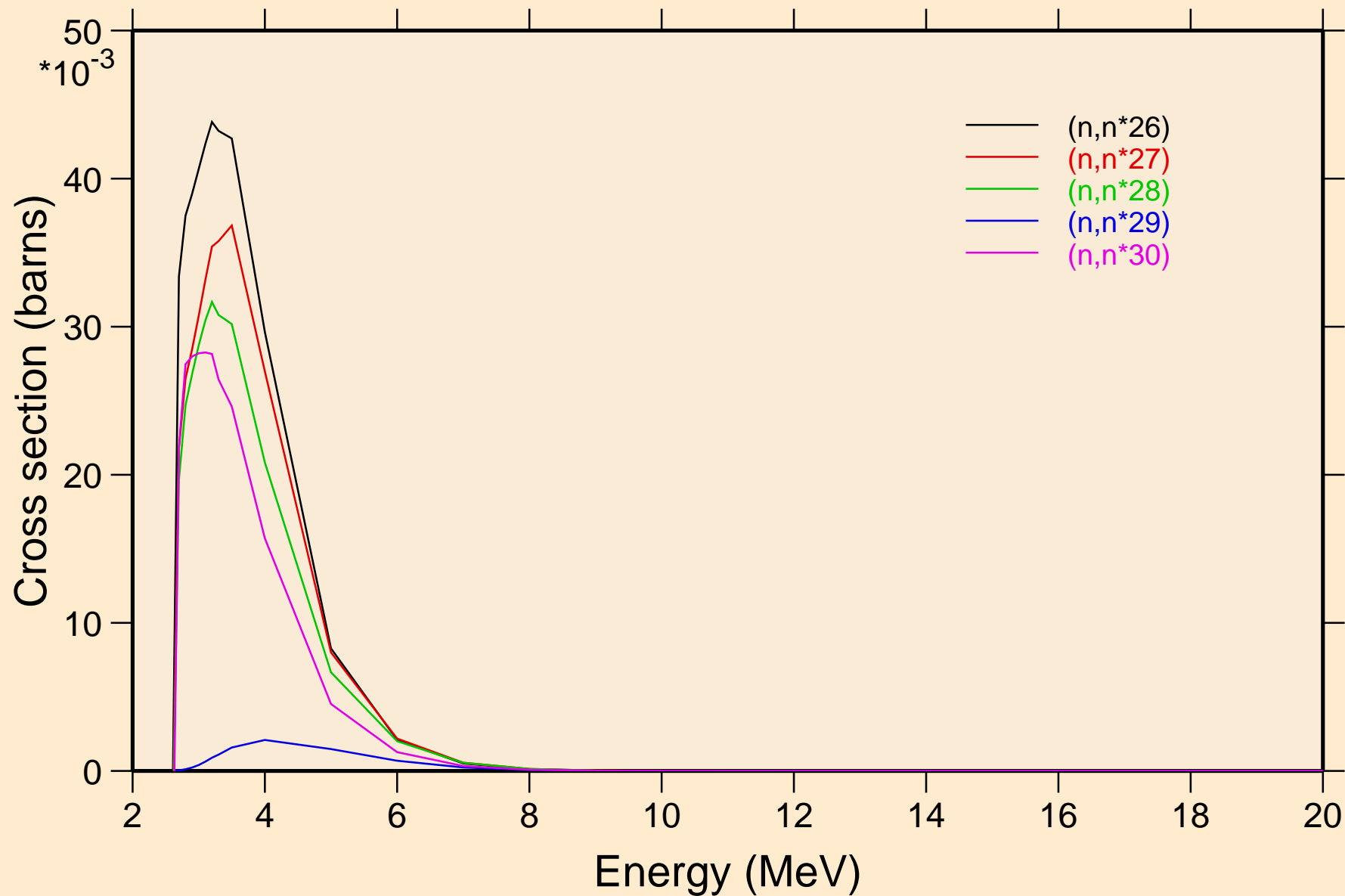
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Inelastic levels



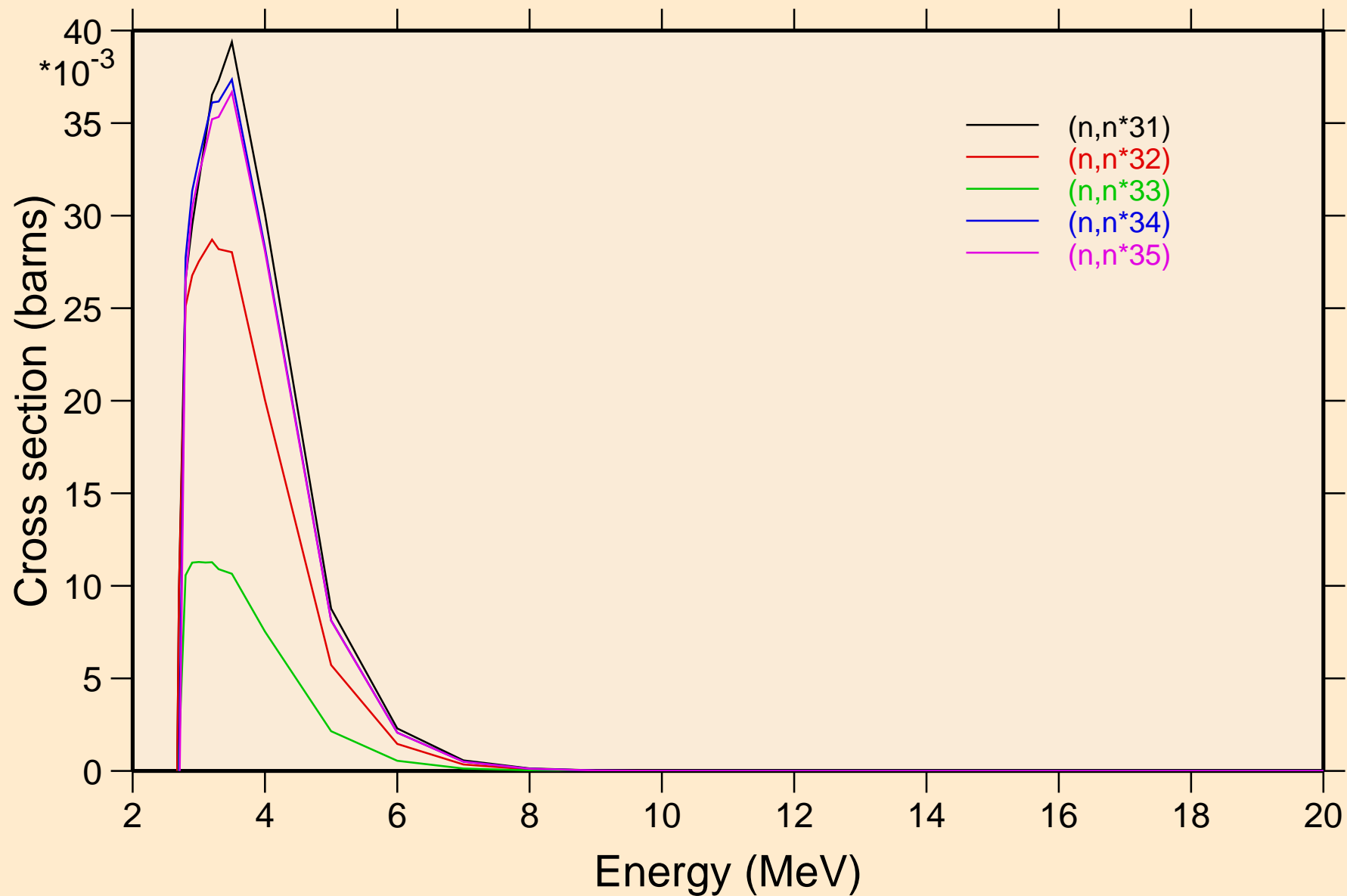
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Inelastic levels



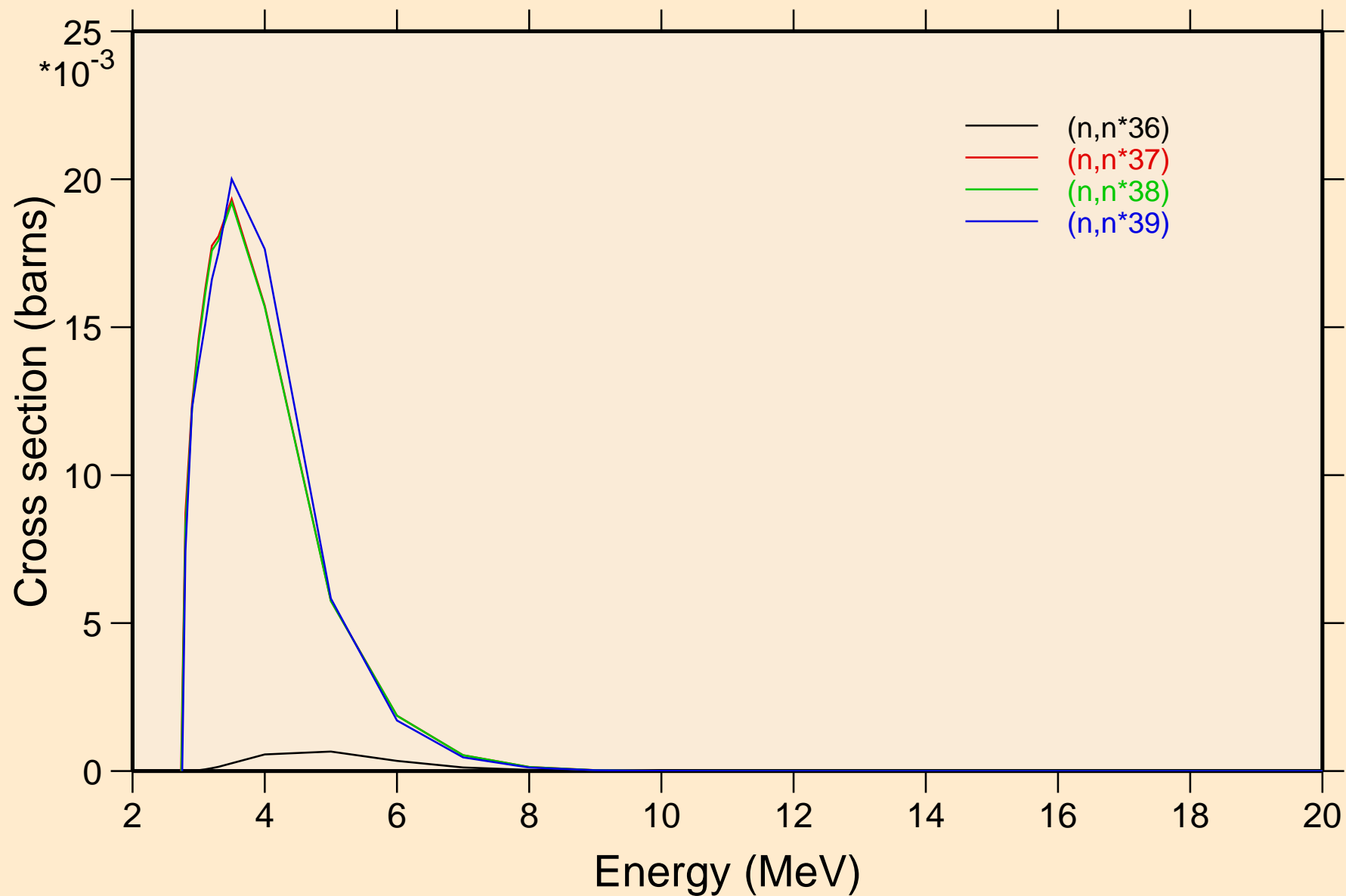
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Inelastic levels



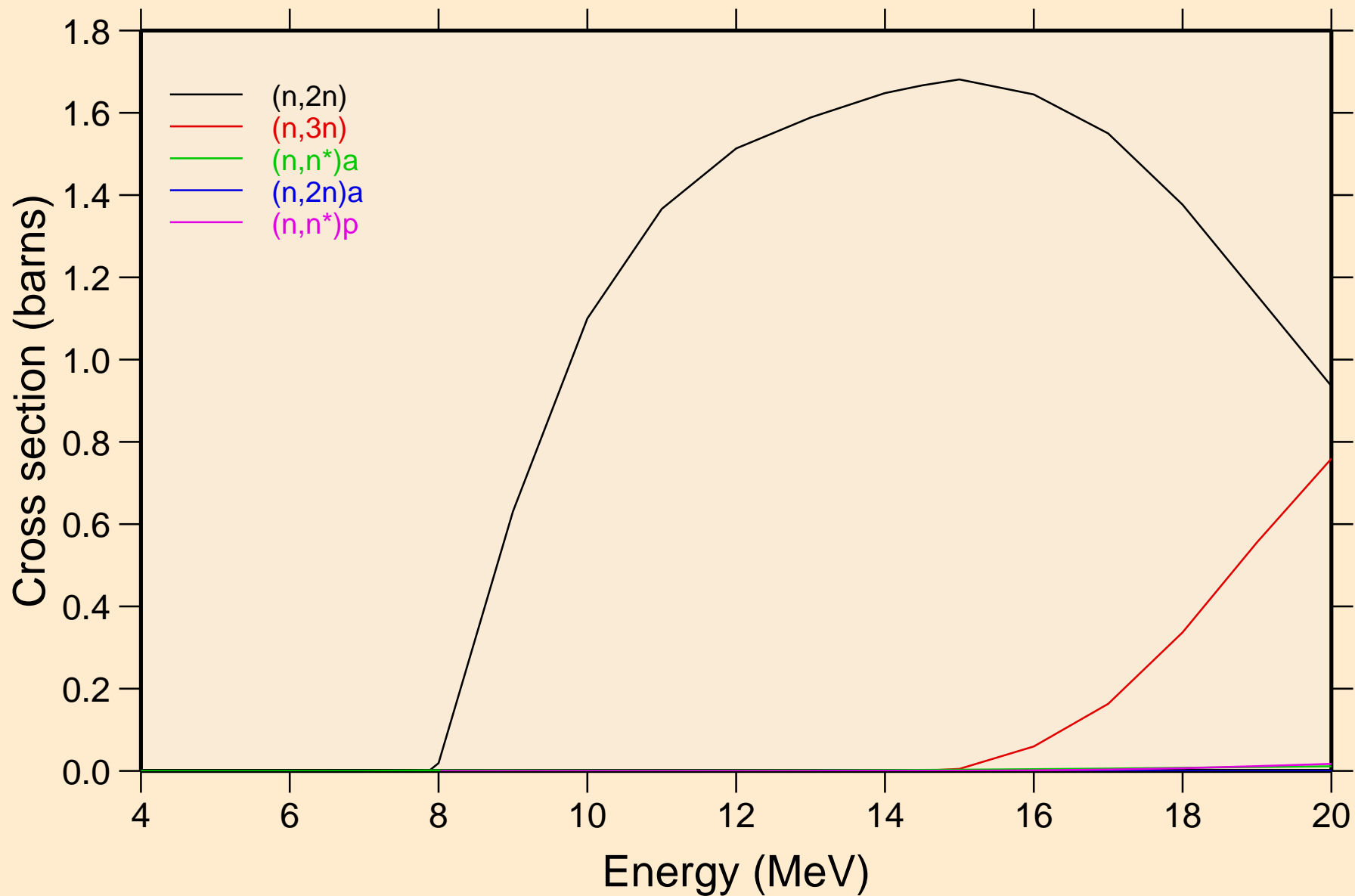
MAT=6031 ACE FILE PRODUCED AT NEA WITH NDEC  
Inelastic levels



MAT=6031 ACE FILE PRODUCED AT NEA WITH NDEC  
Inelastic levels

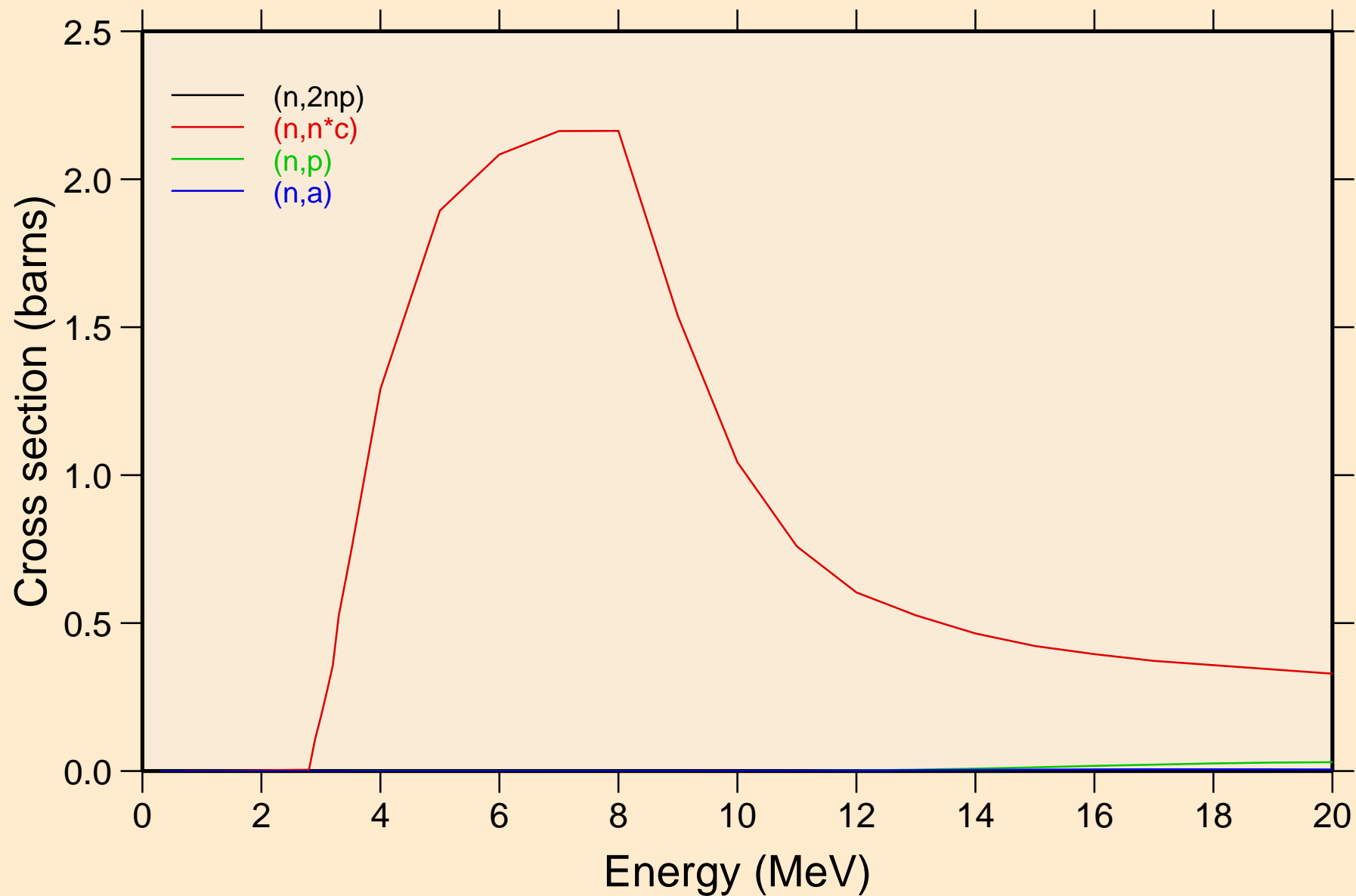


MAT=6031 ACE FILE PRODUCED AT NEA WITH NDEC  
Threshold reactions

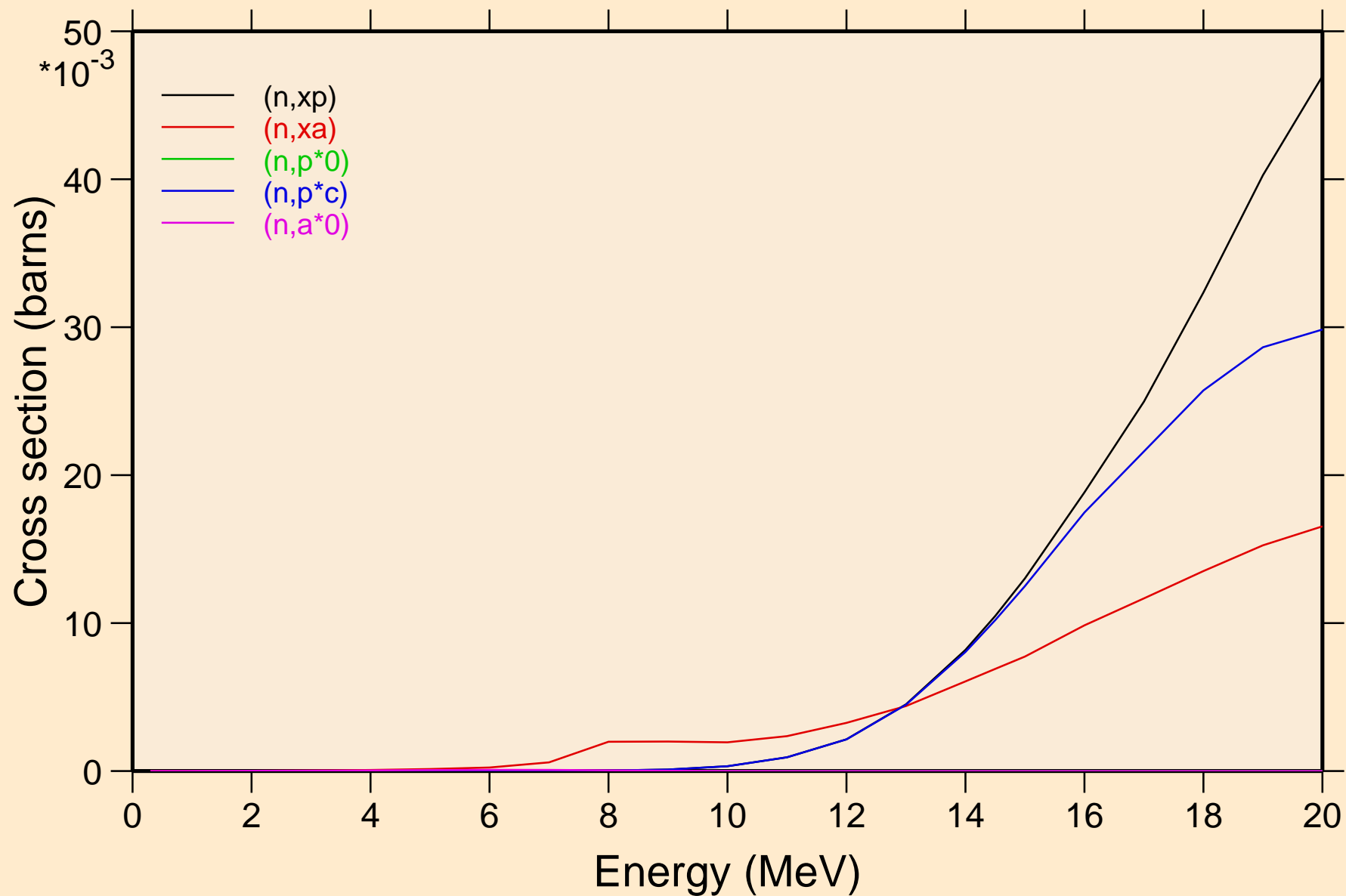




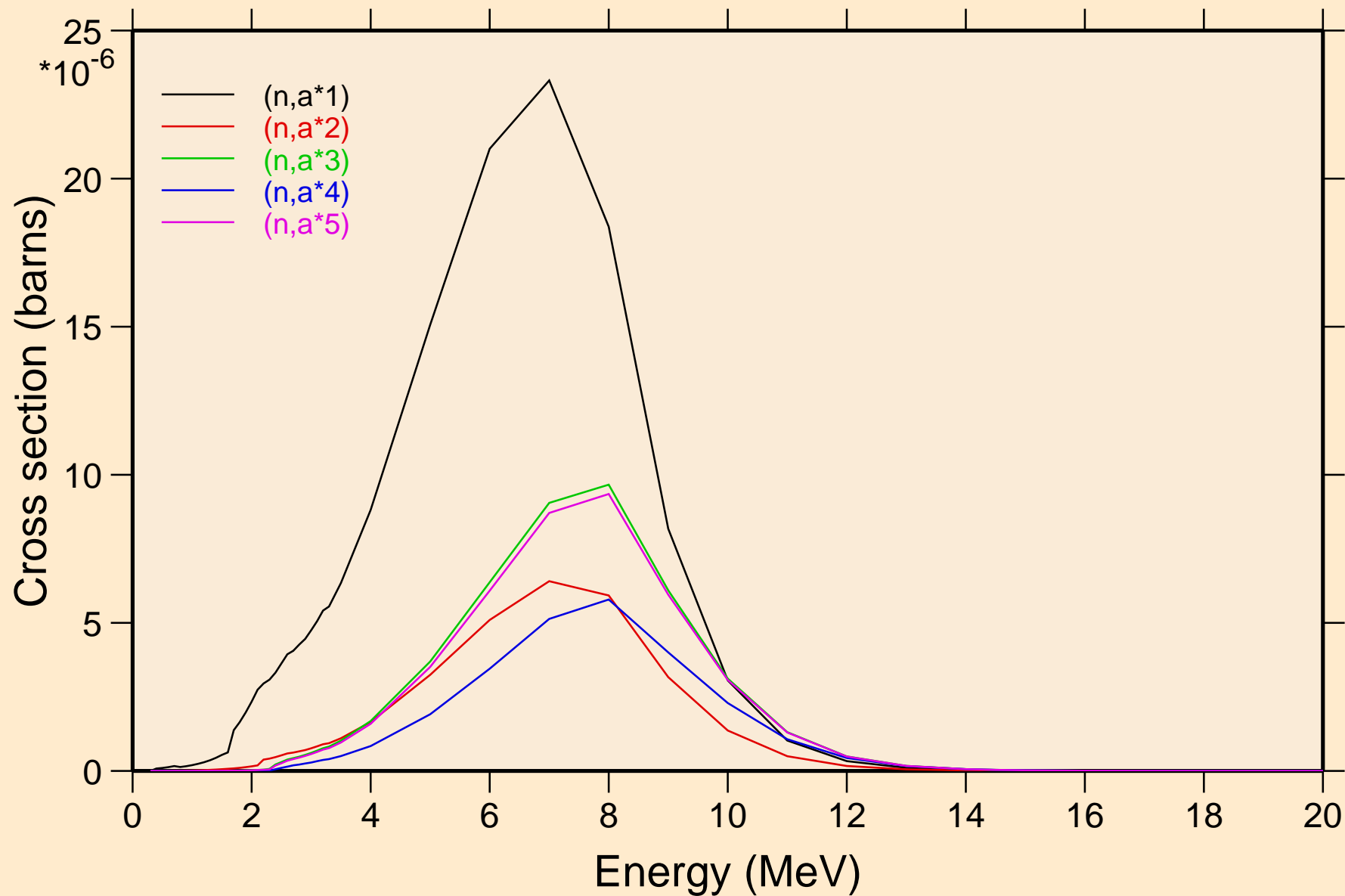
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Threshold reactions



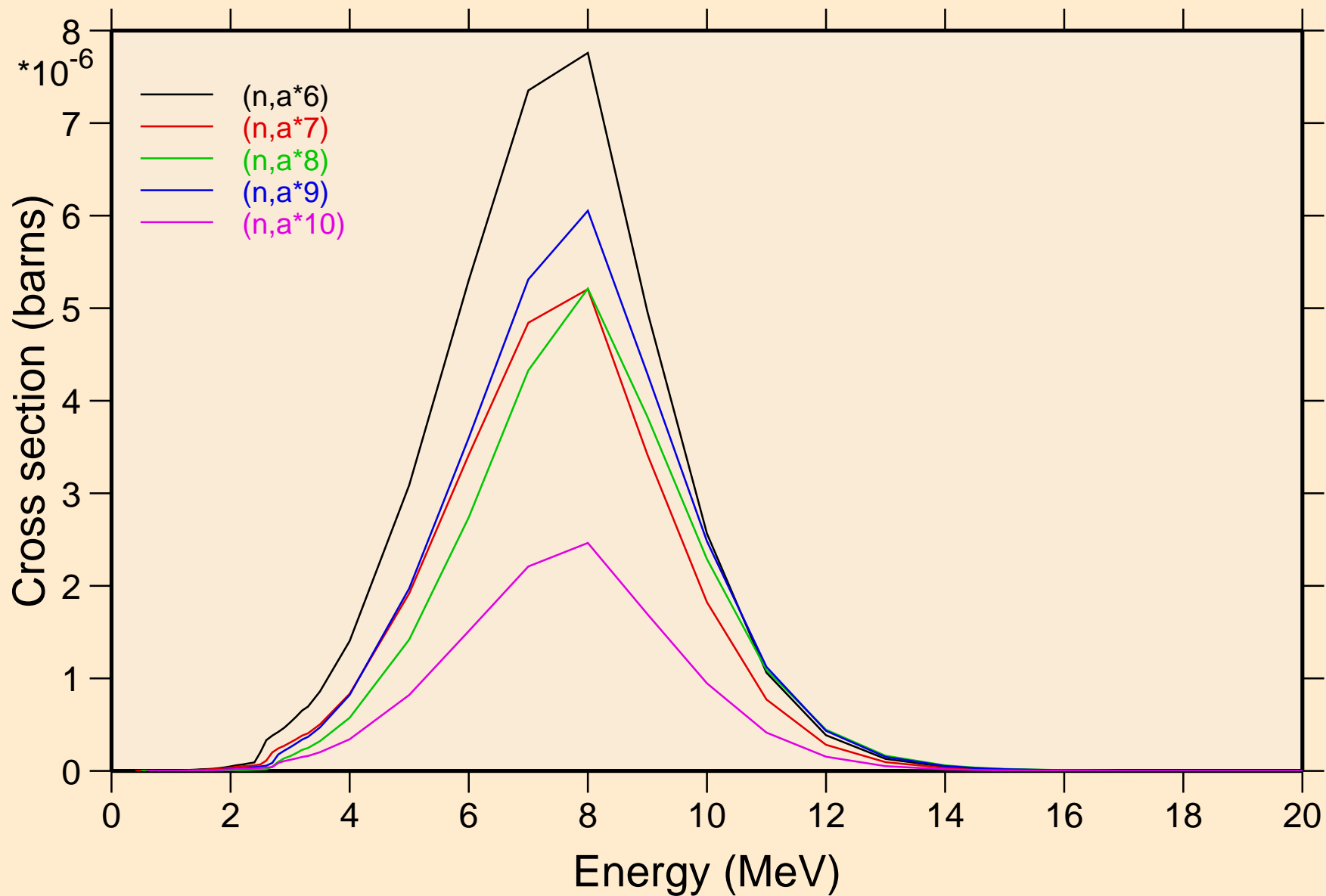
MAT=6031 ACE FILE PRODUCED AT NEA WITH NDEC  
Threshold reactions



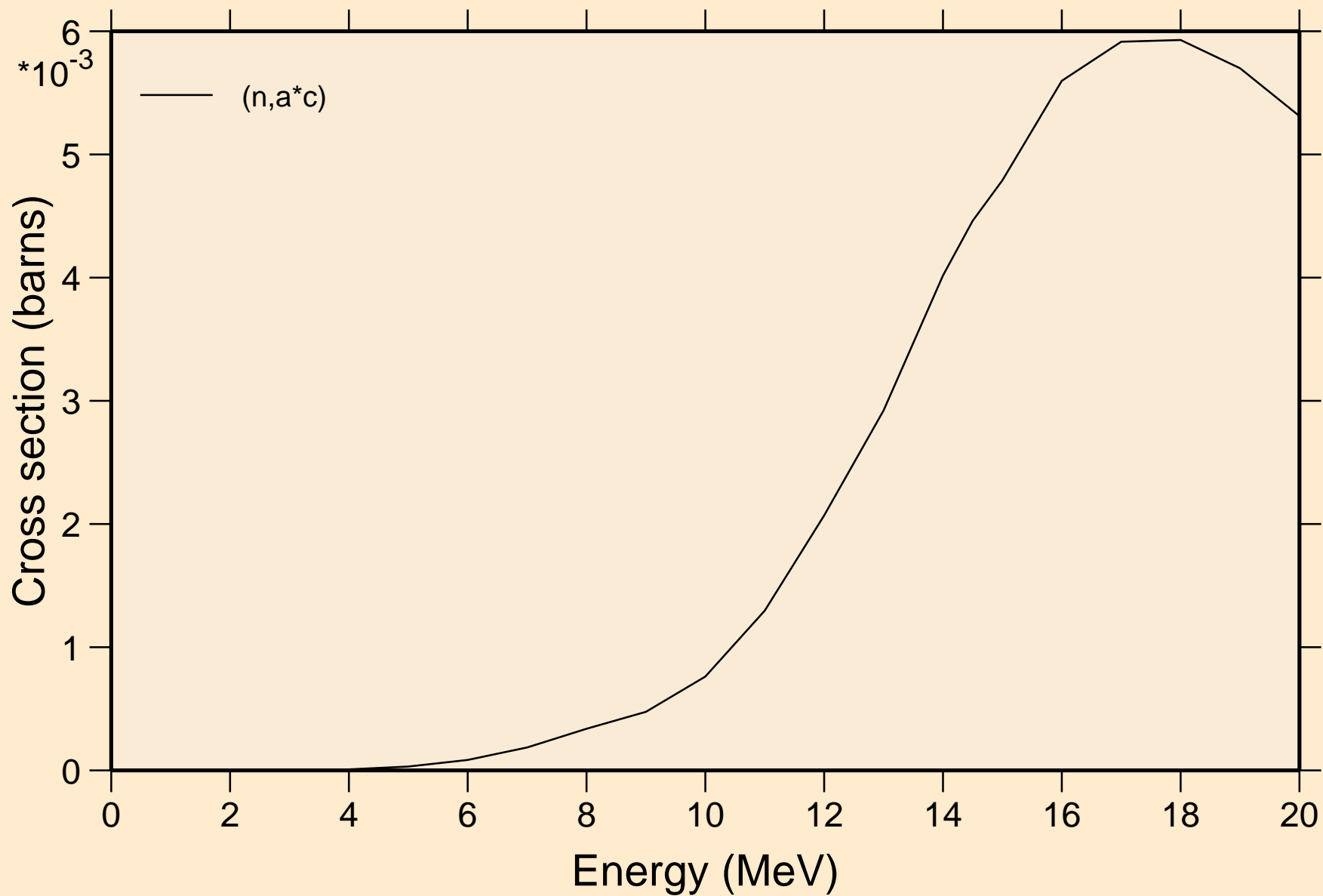
MAT=6031 ACE FILE PRODUCED AT NEA WITH NDEC  
Threshold reactions



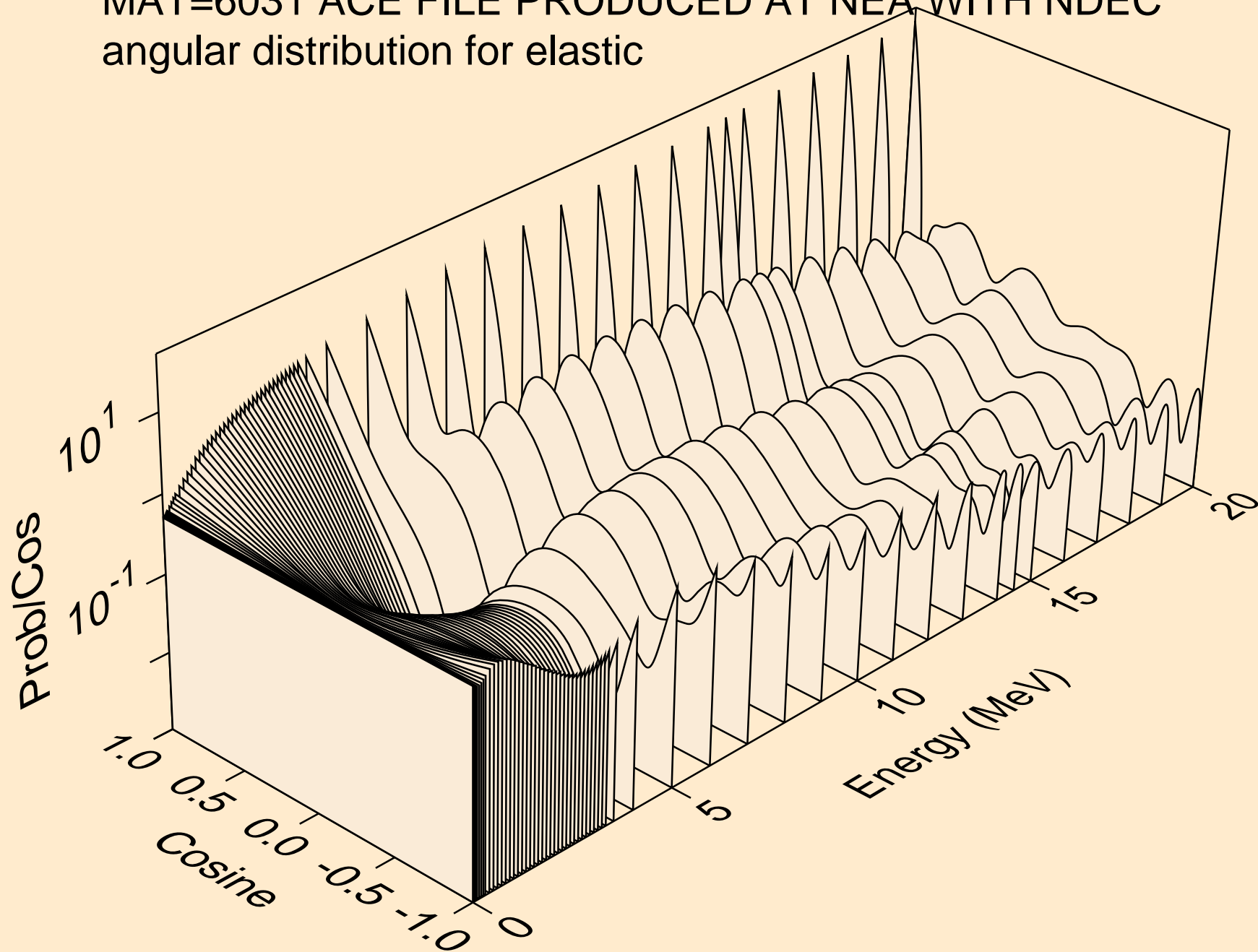
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Threshold reactions



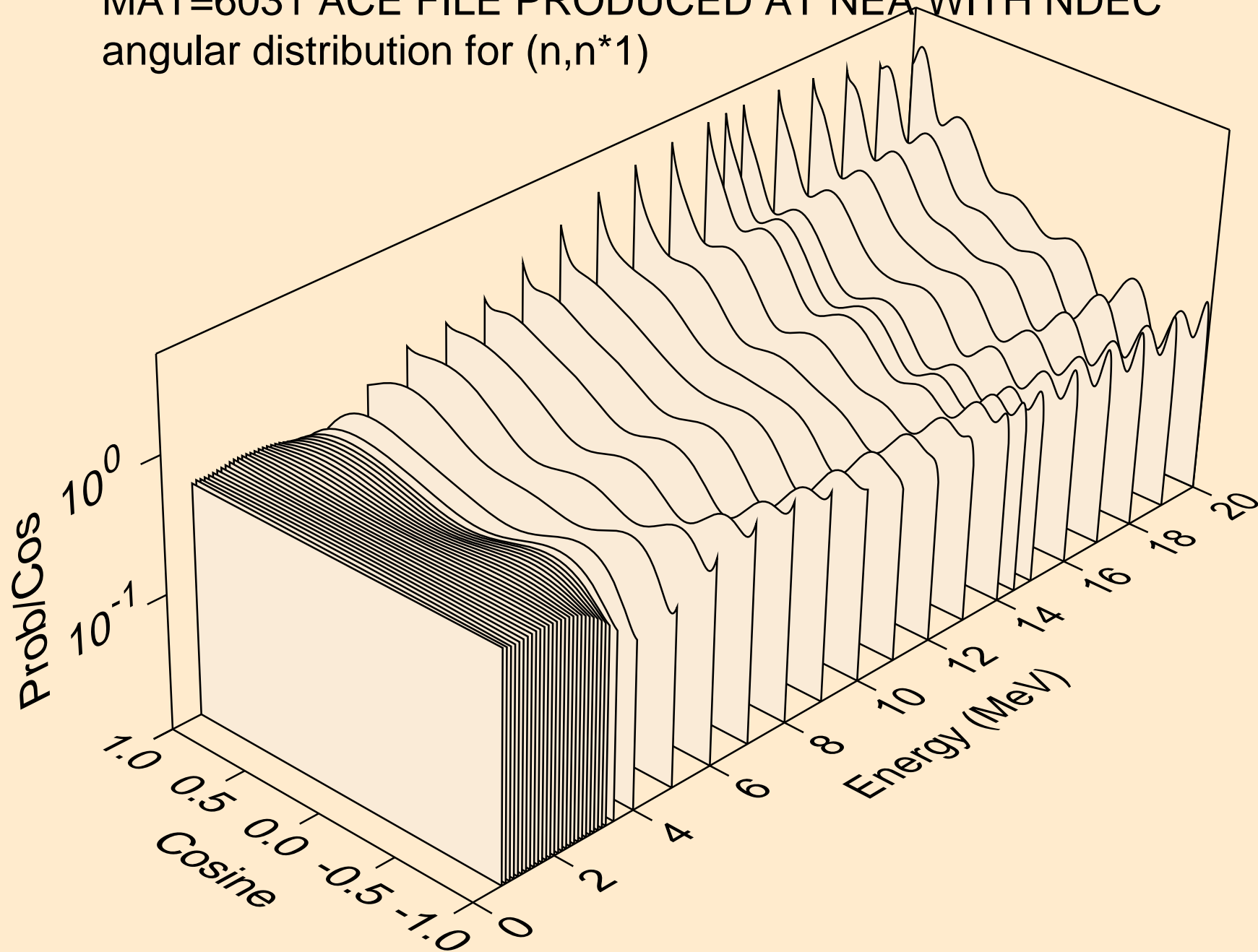
MAT=6031 ACE FILE PRODUCED AT NEA WITH NDEC  
Threshold reactions



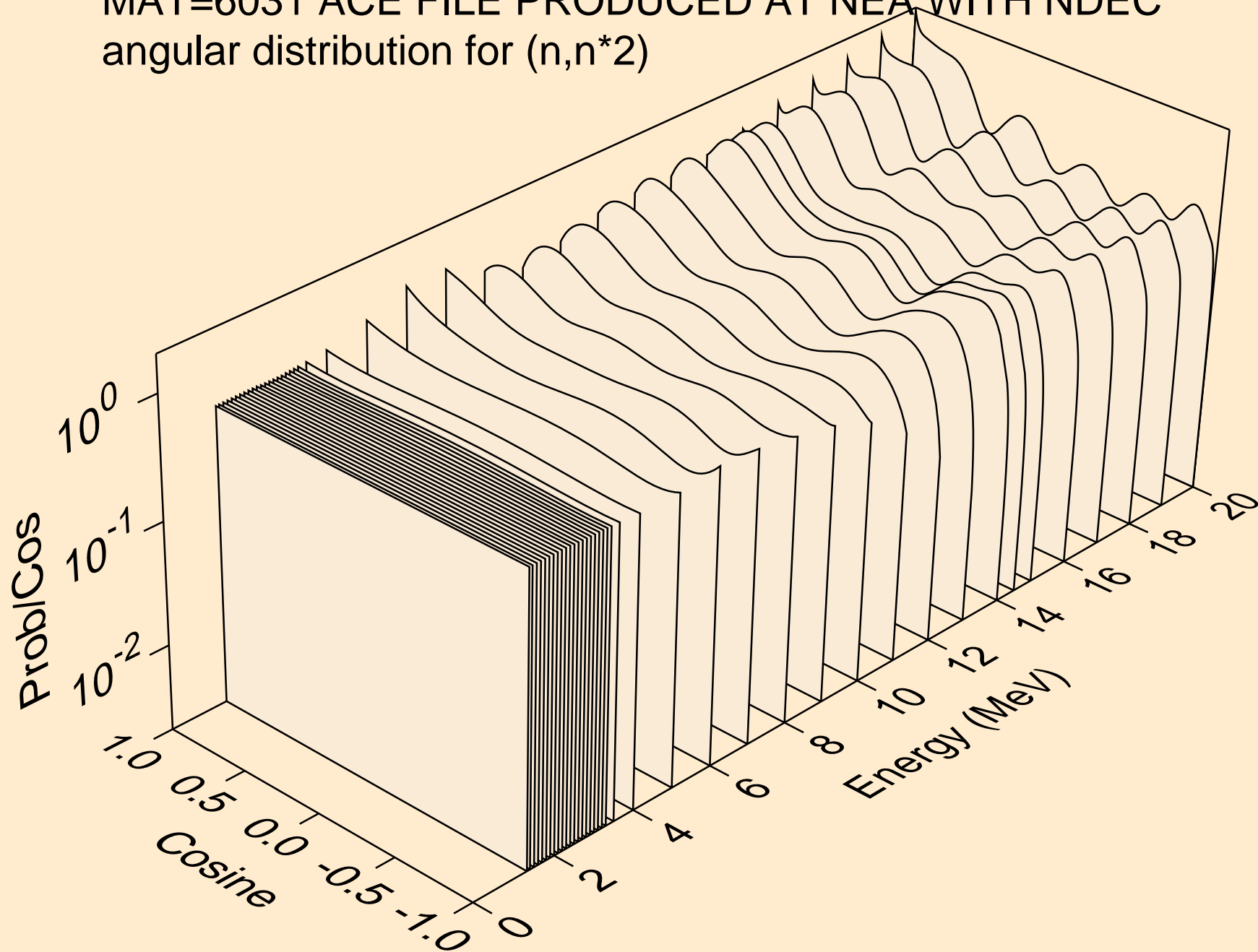
MAT=6031 ACE FILE PRODUCED AT NEA WITH NDEC  
angular distribution for elastic



MAT=6031 ACE FILE PRODUCED AT NEA WITH NDEC  
angular distribution for (n,n\*1)

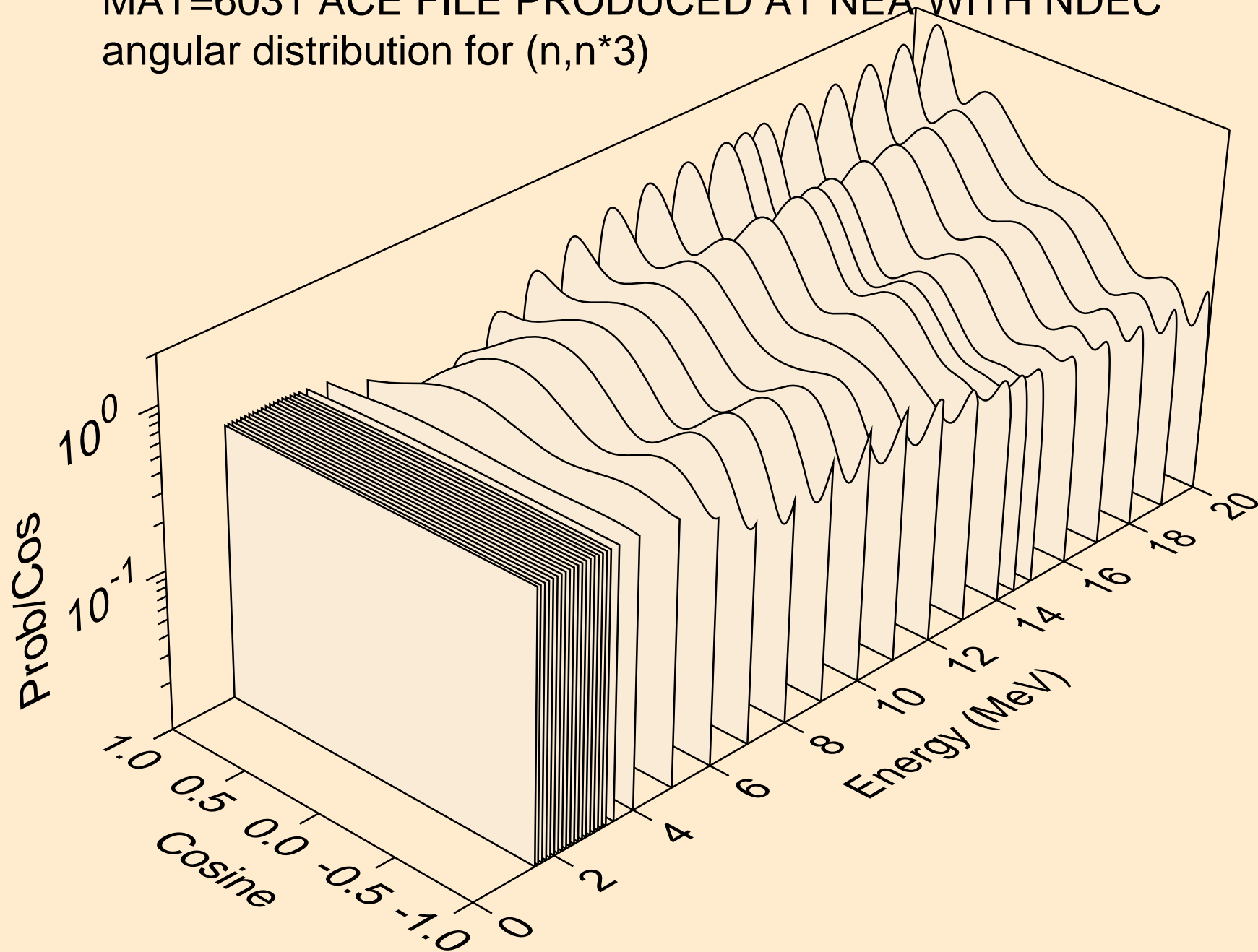


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angular distribution for (n,n\*2)

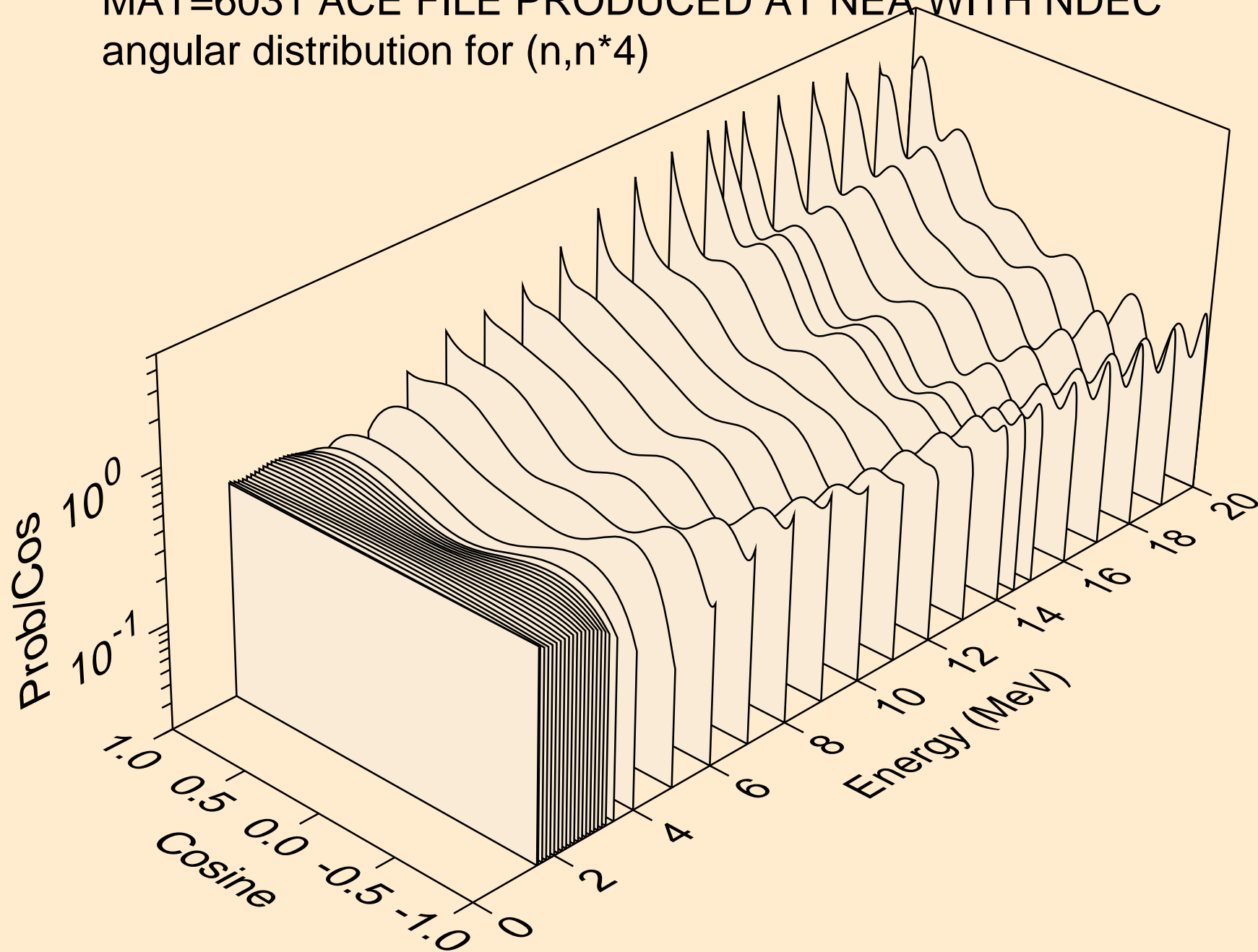




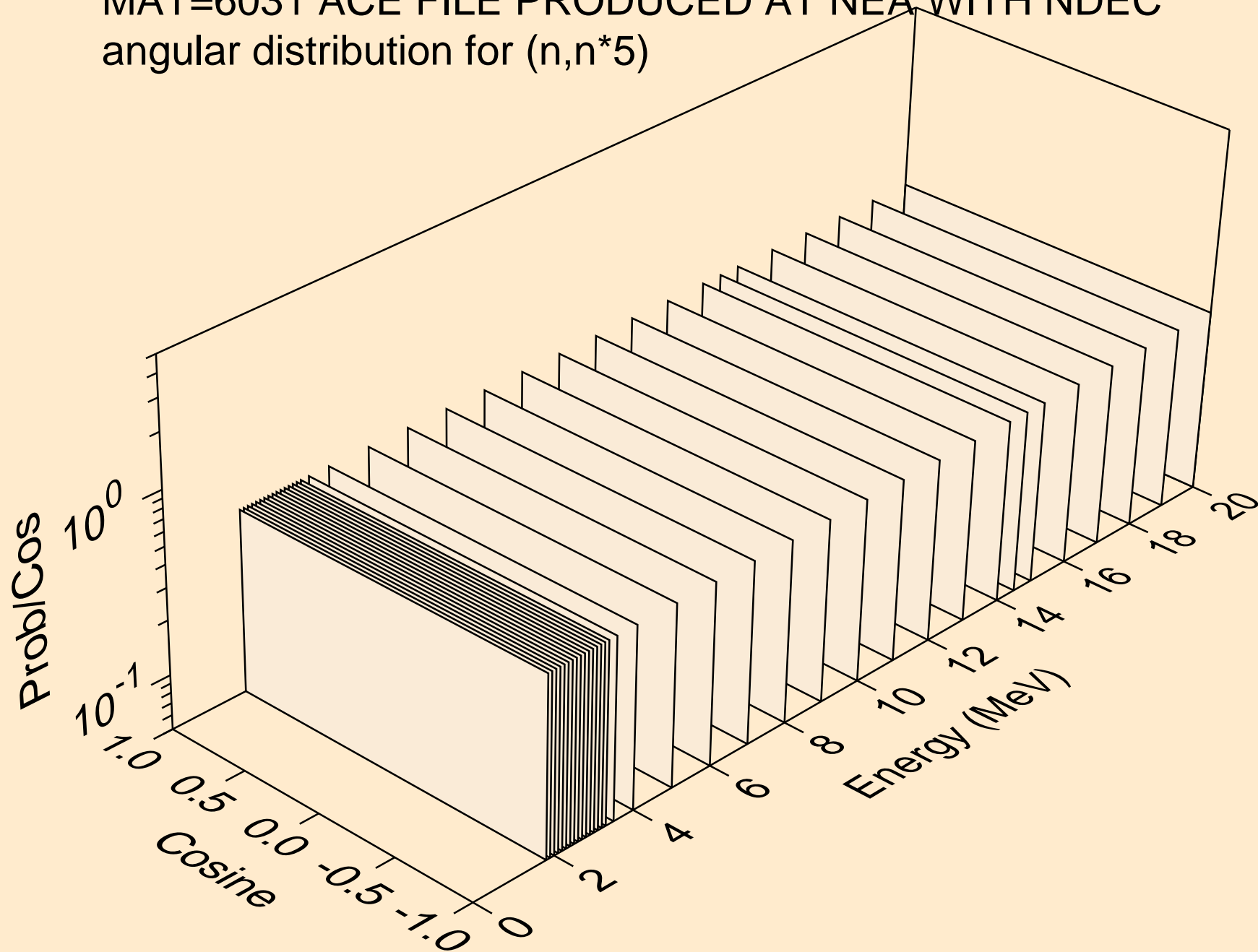
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angular distribution for (n,n\*3)



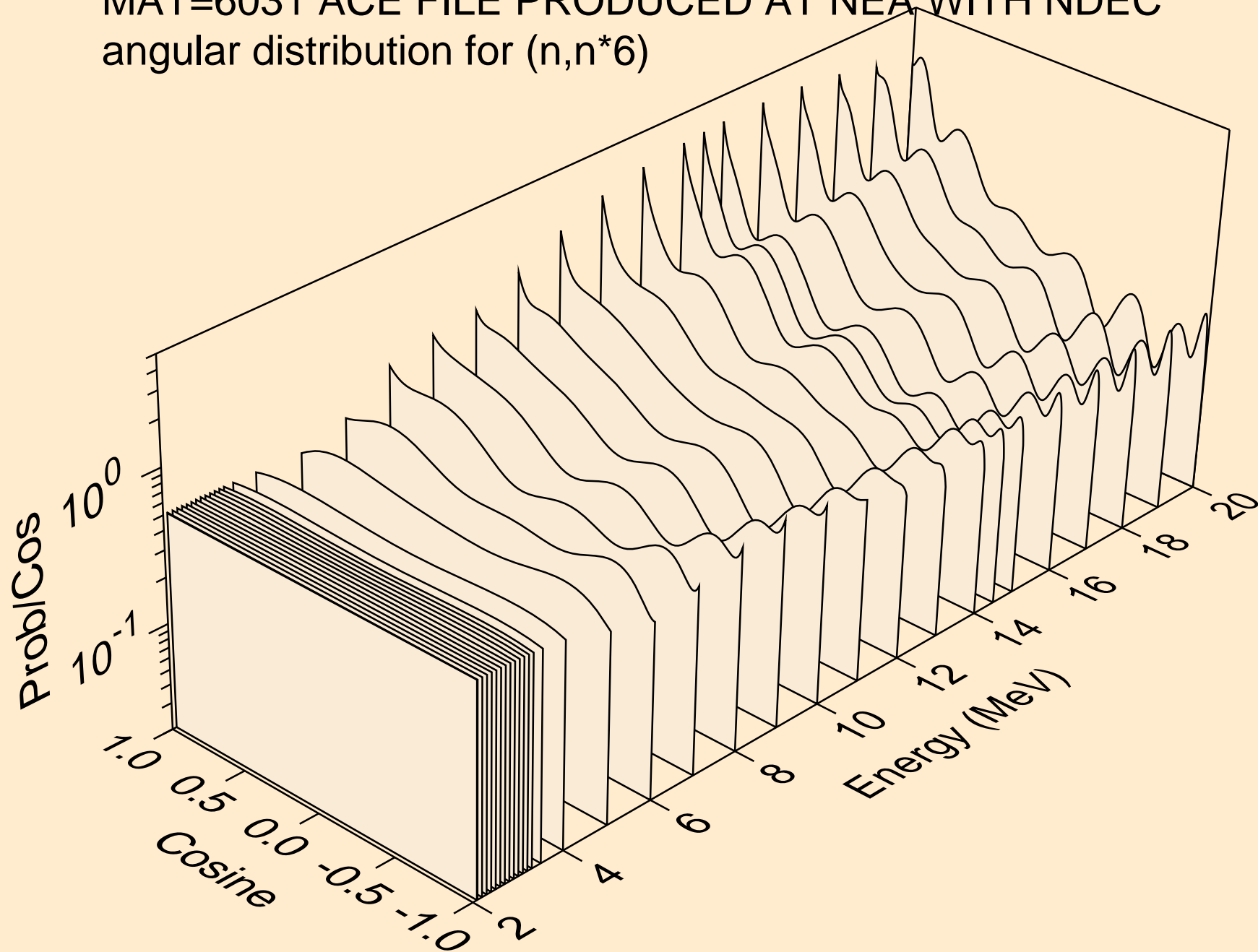
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angular distribution for (n,n\*4)



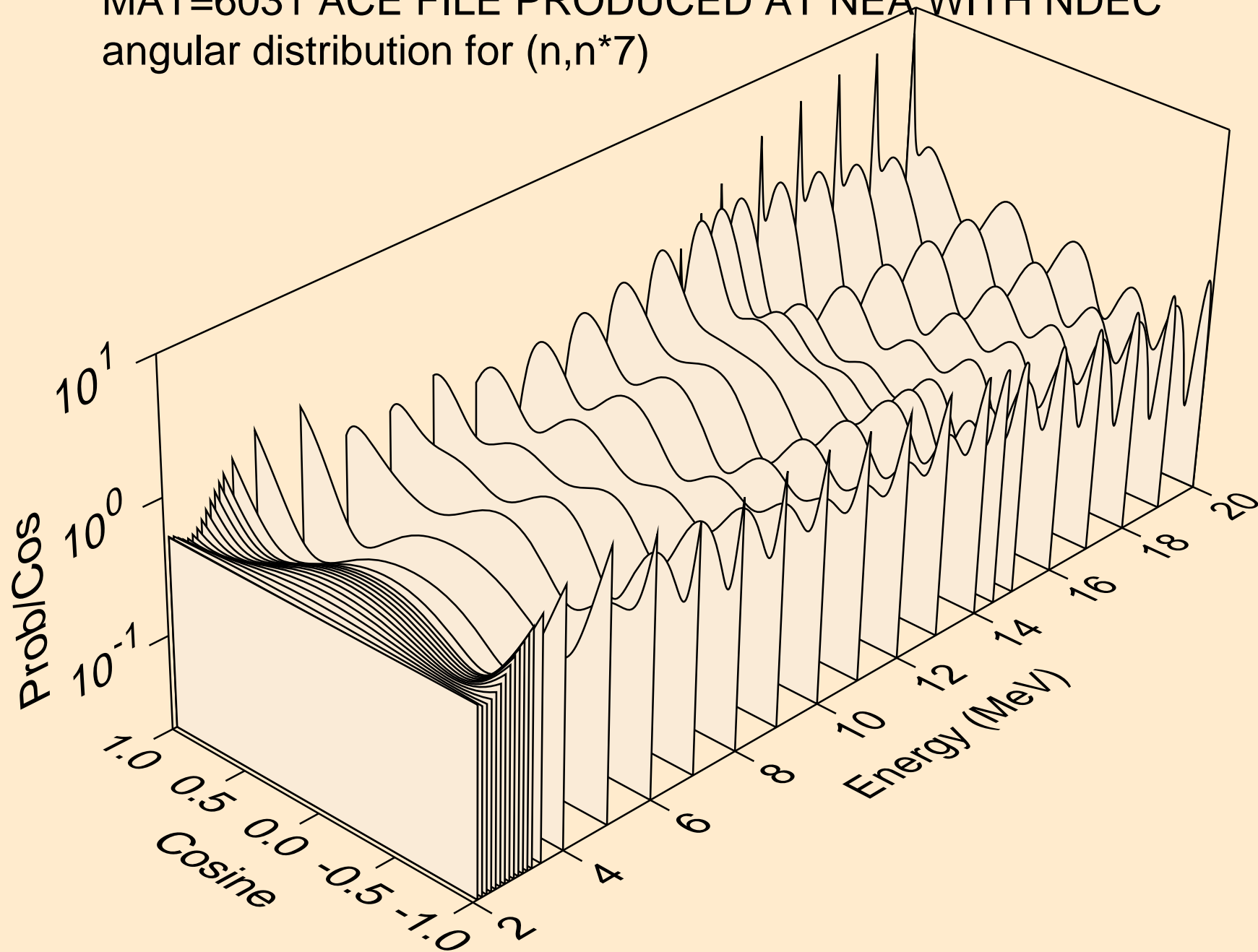
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angular distribution for (n,n\*5)



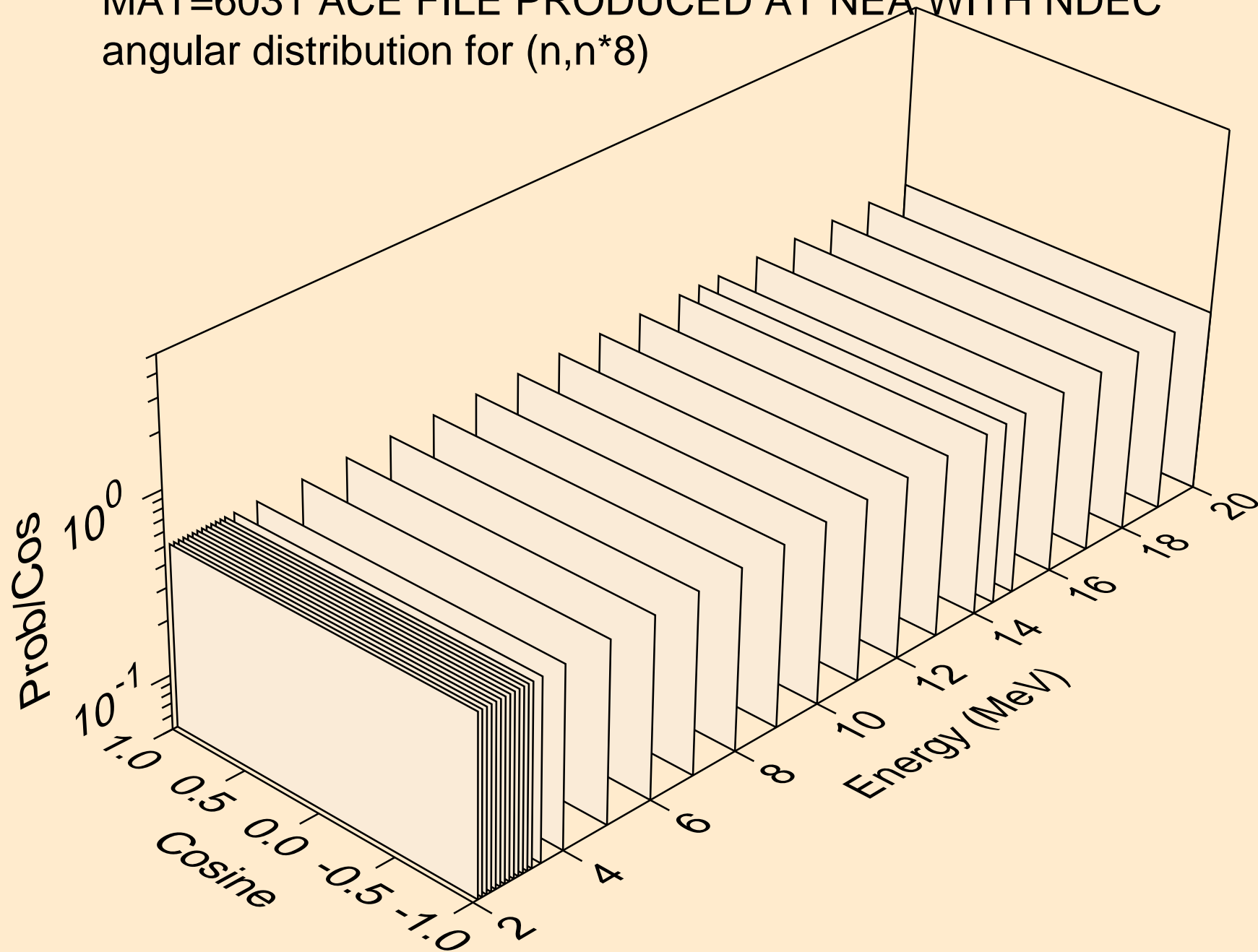
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angular distribution for (n,n\*6)



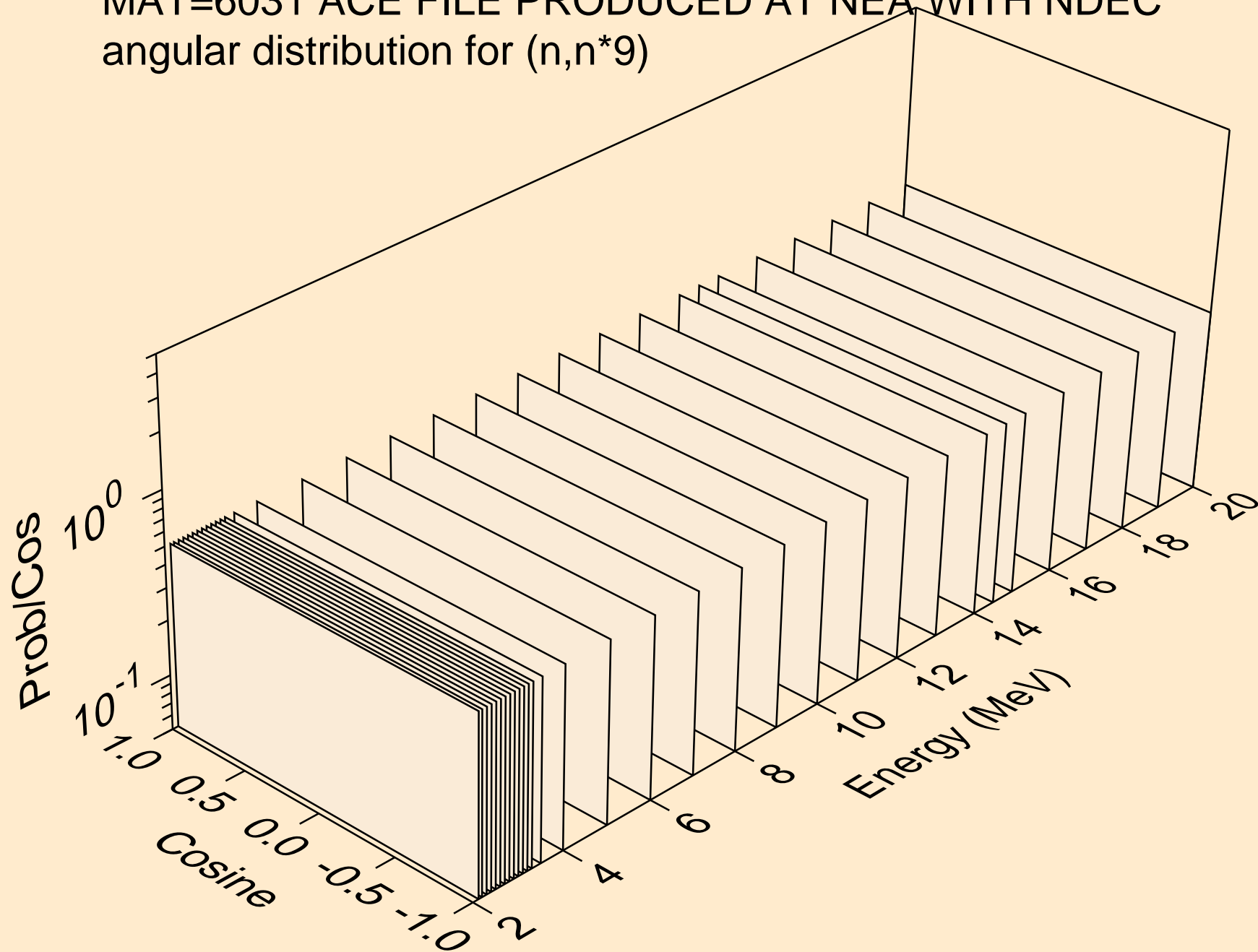
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angular distribution for (n,n\*7)



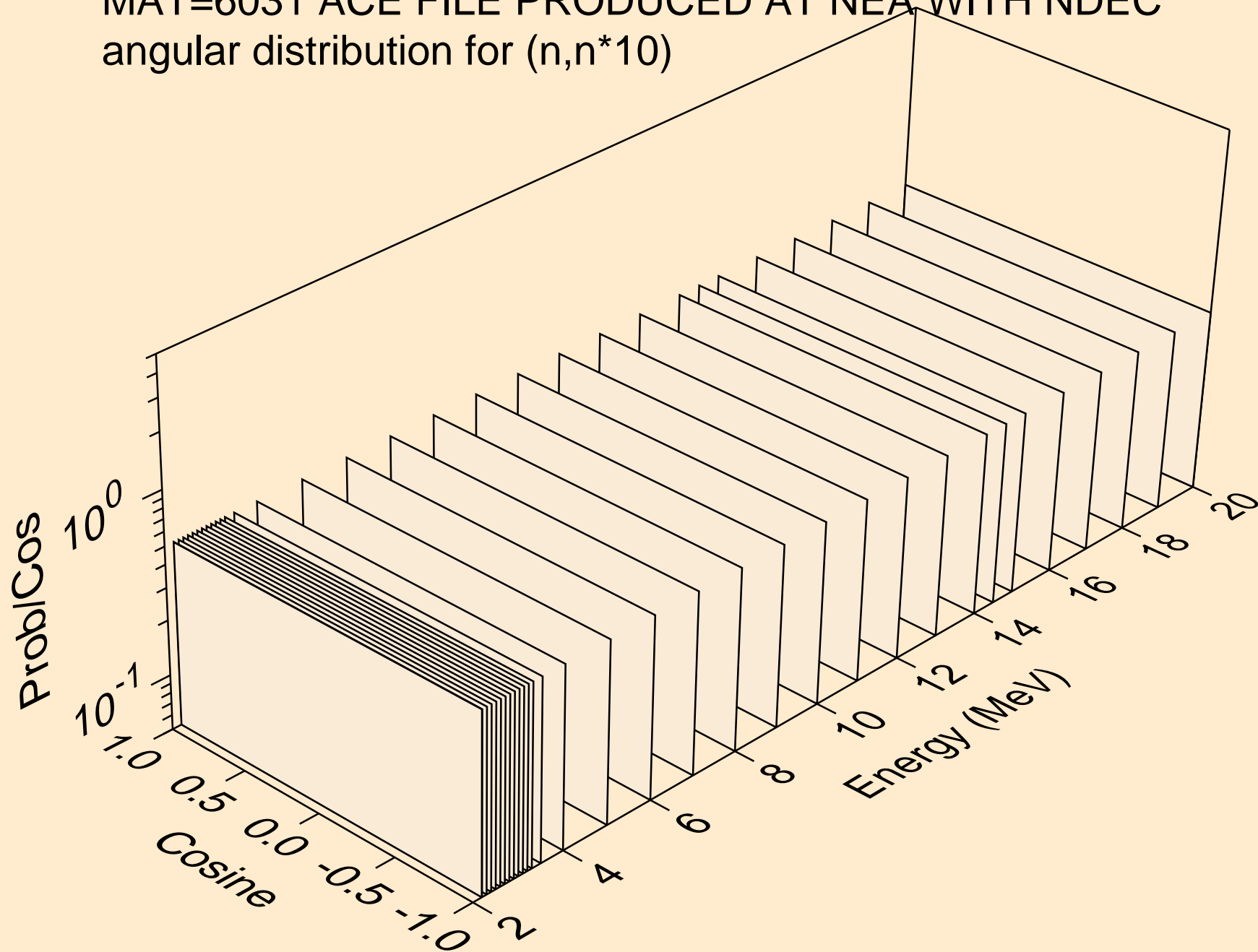
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angular distribution for (n,n\*8)



MAT=6031 ACE FILE PRODUCED AT NEA WITH NDEC  
angular distribution for (n,n\*9)

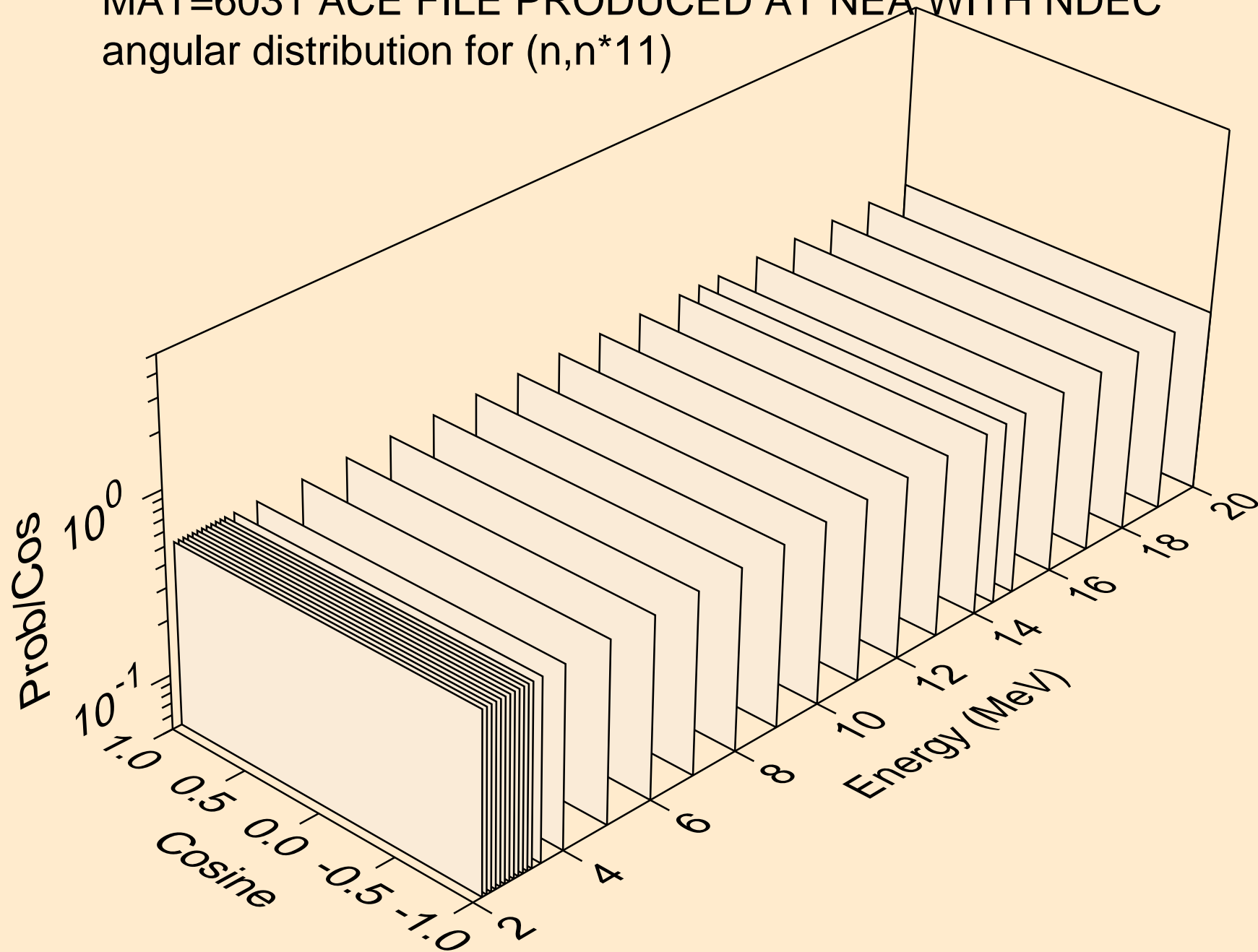


MAT=6031 ACE FILE PRODUCED AT NEA WITH NDEC  
angular distribution for (n,n\*10)

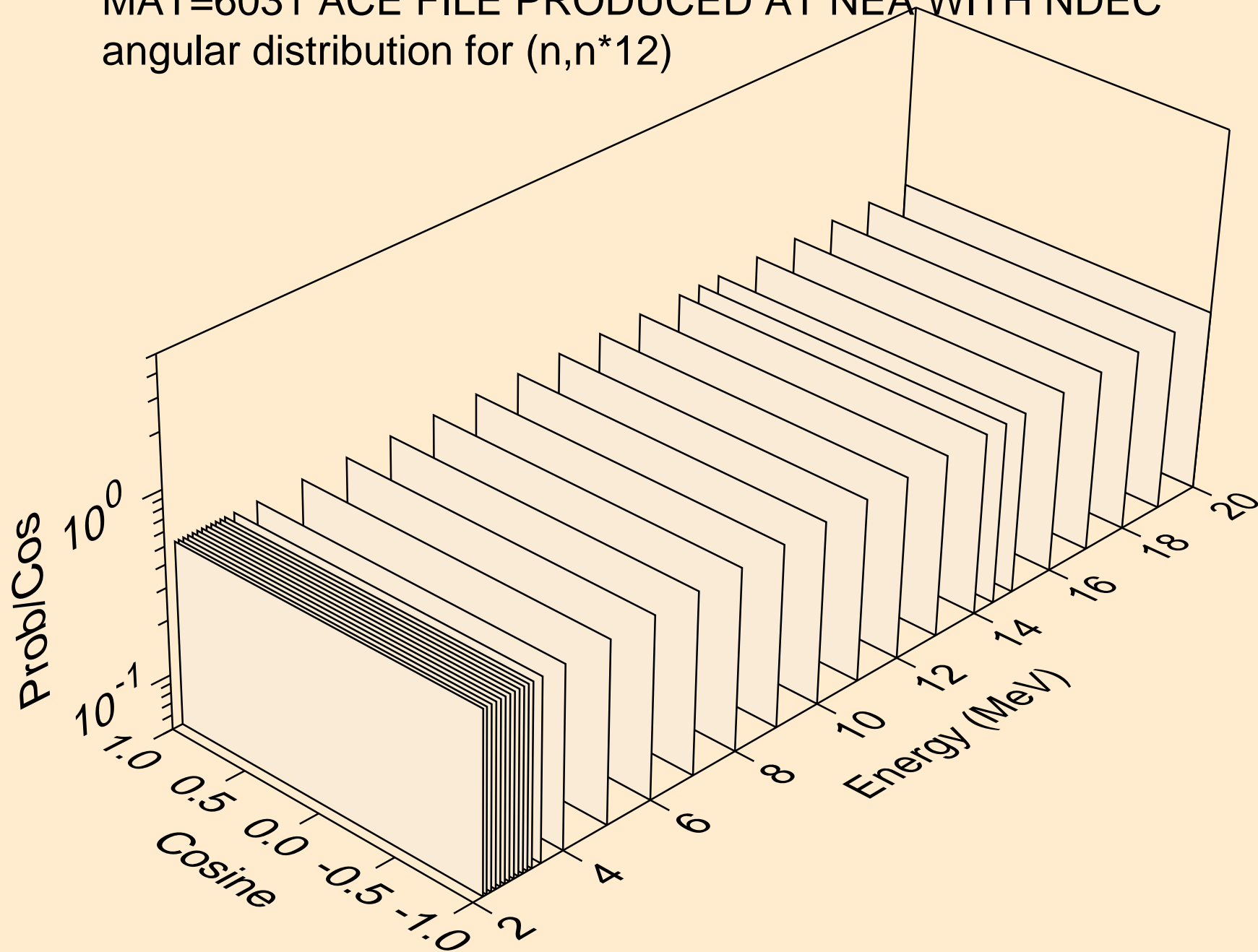




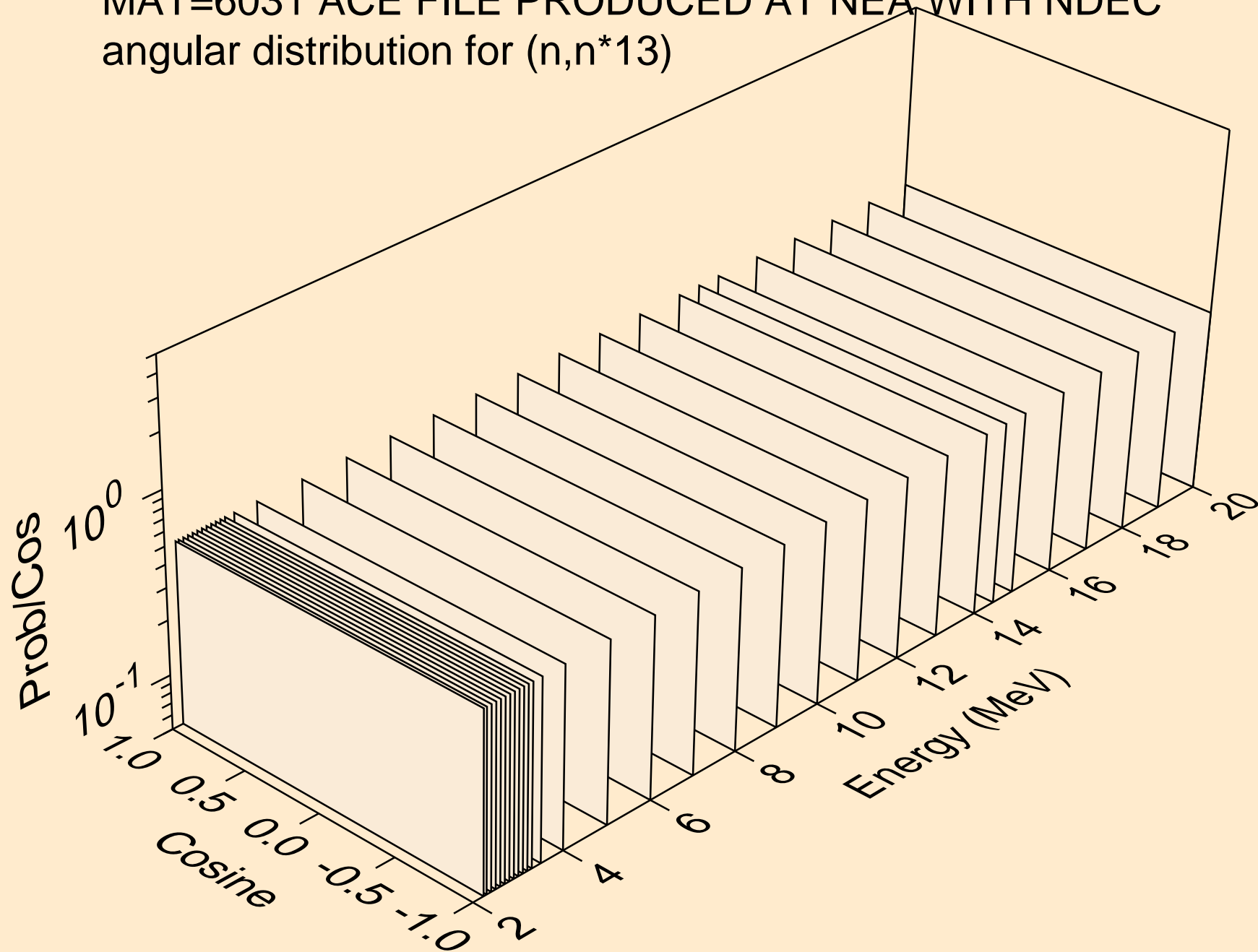
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angular distribution for (n,n\*11)



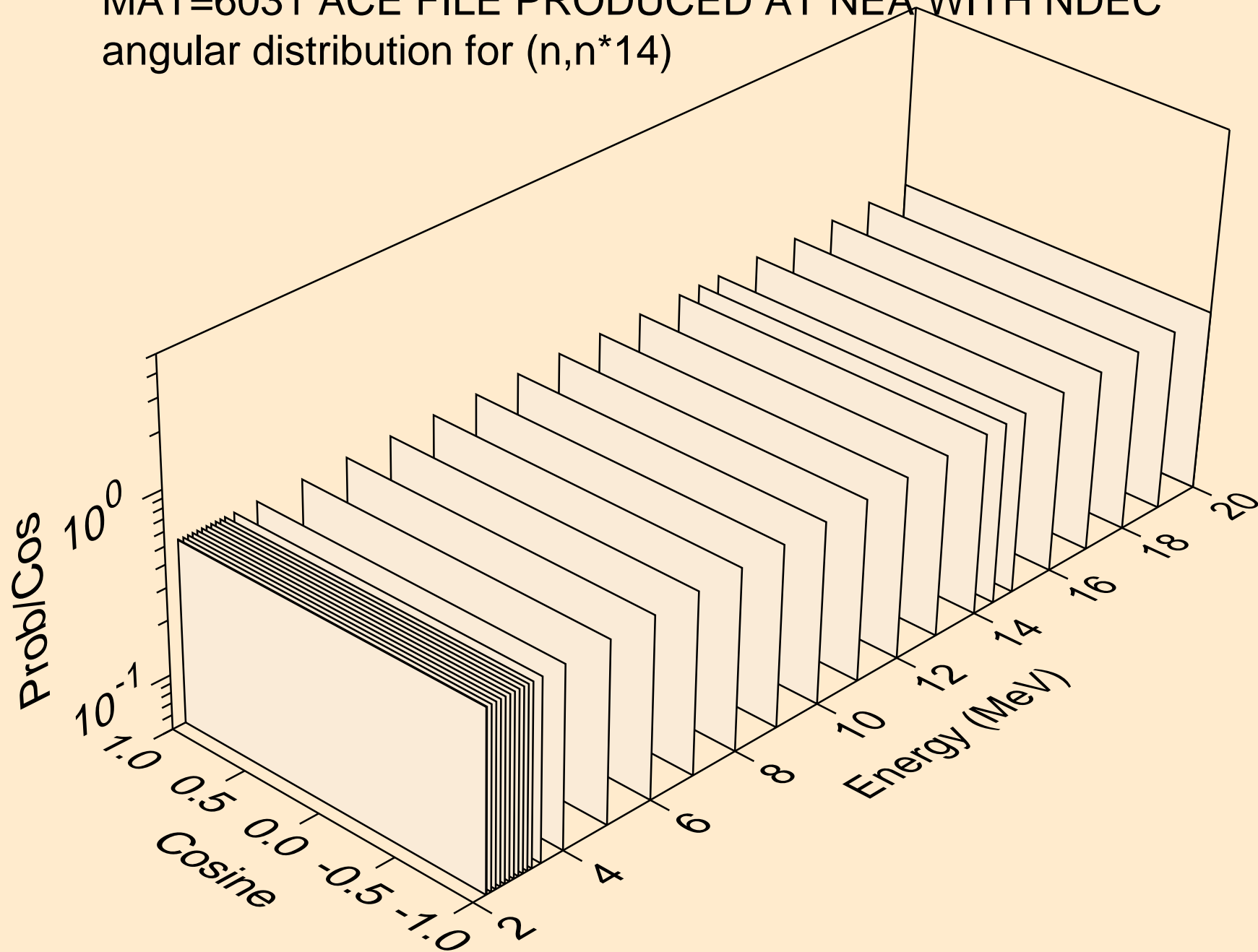
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angular distribution for (n,n\*12)



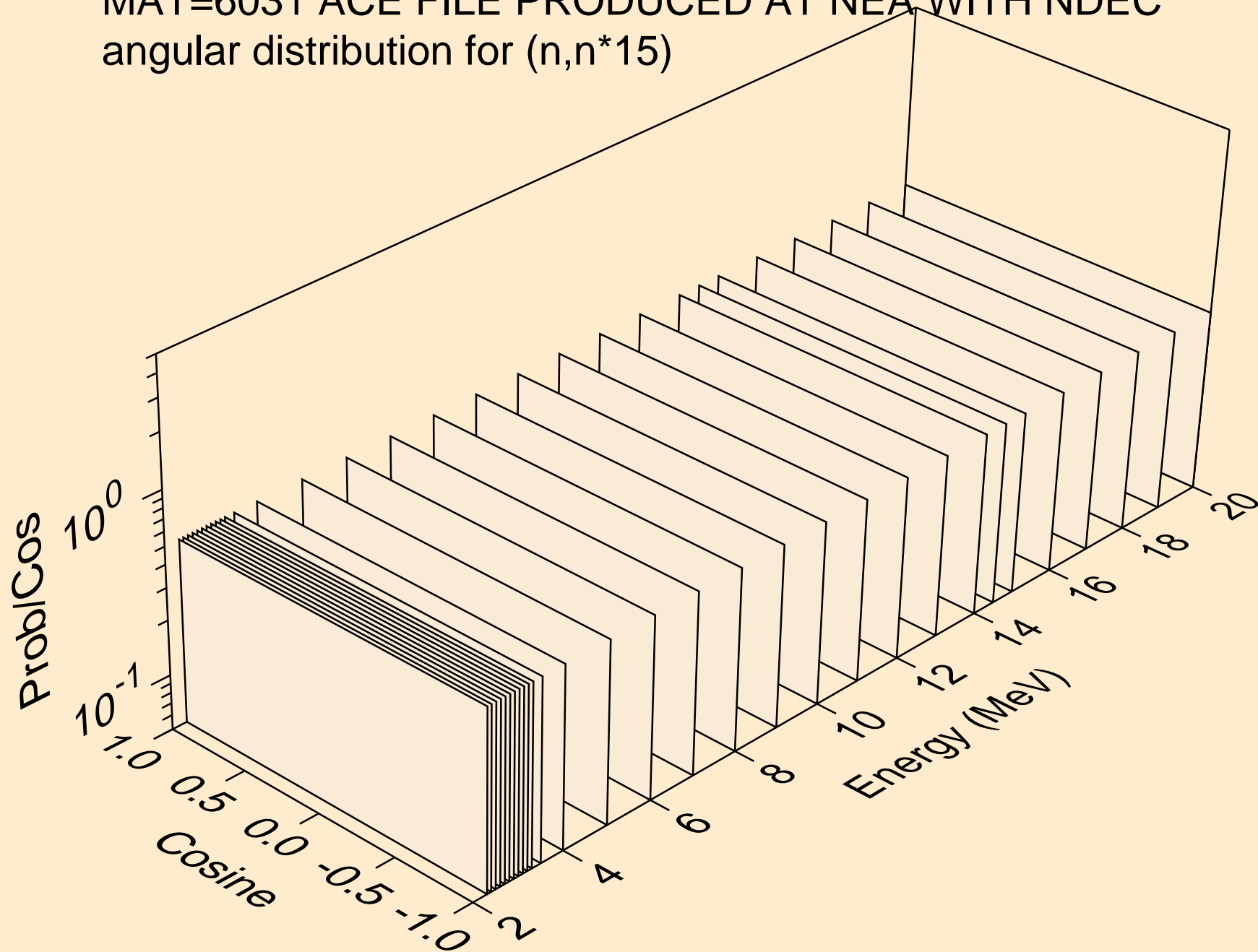
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angular distribution for (n,n\*13)



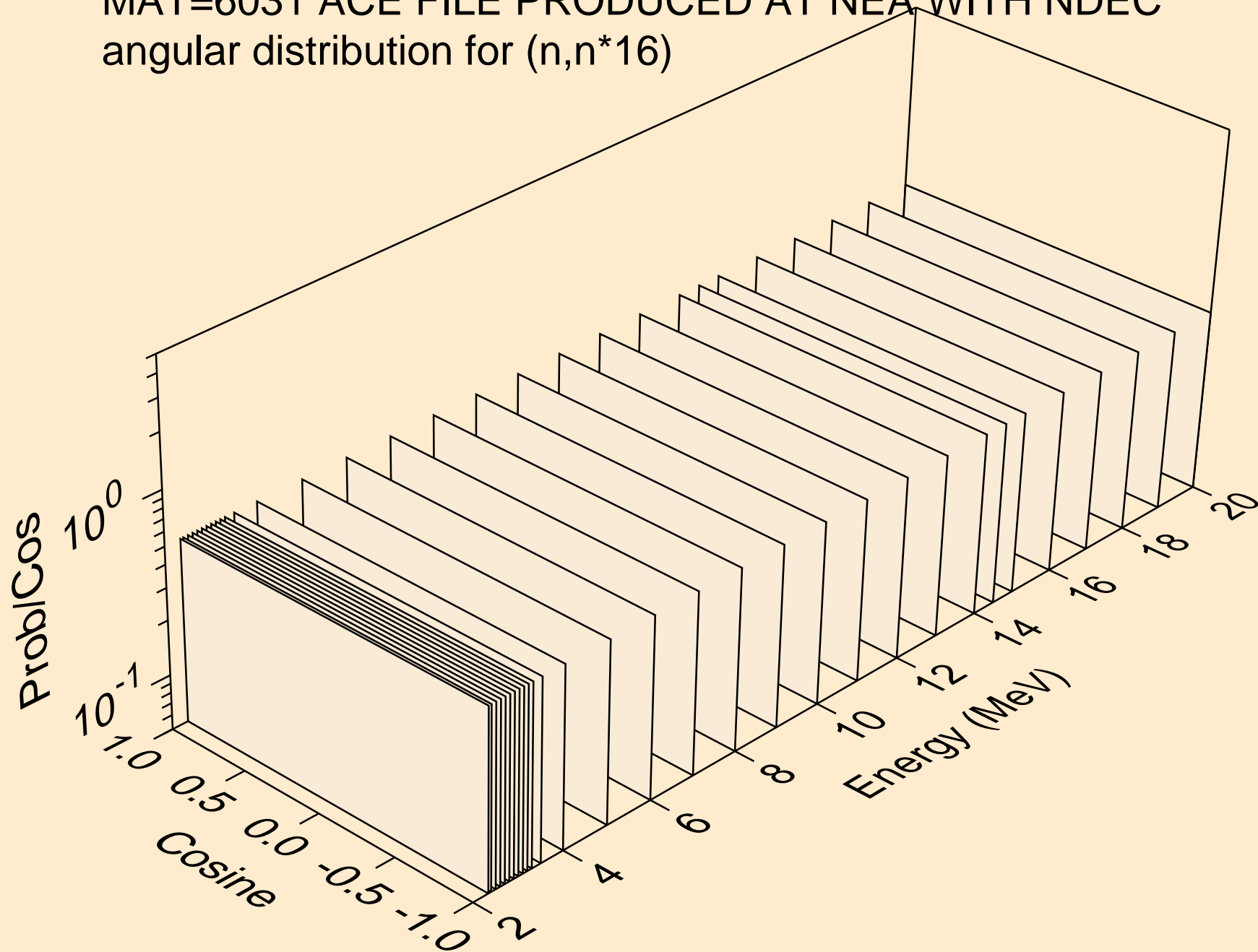
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angular distribution for (n,n\*14)



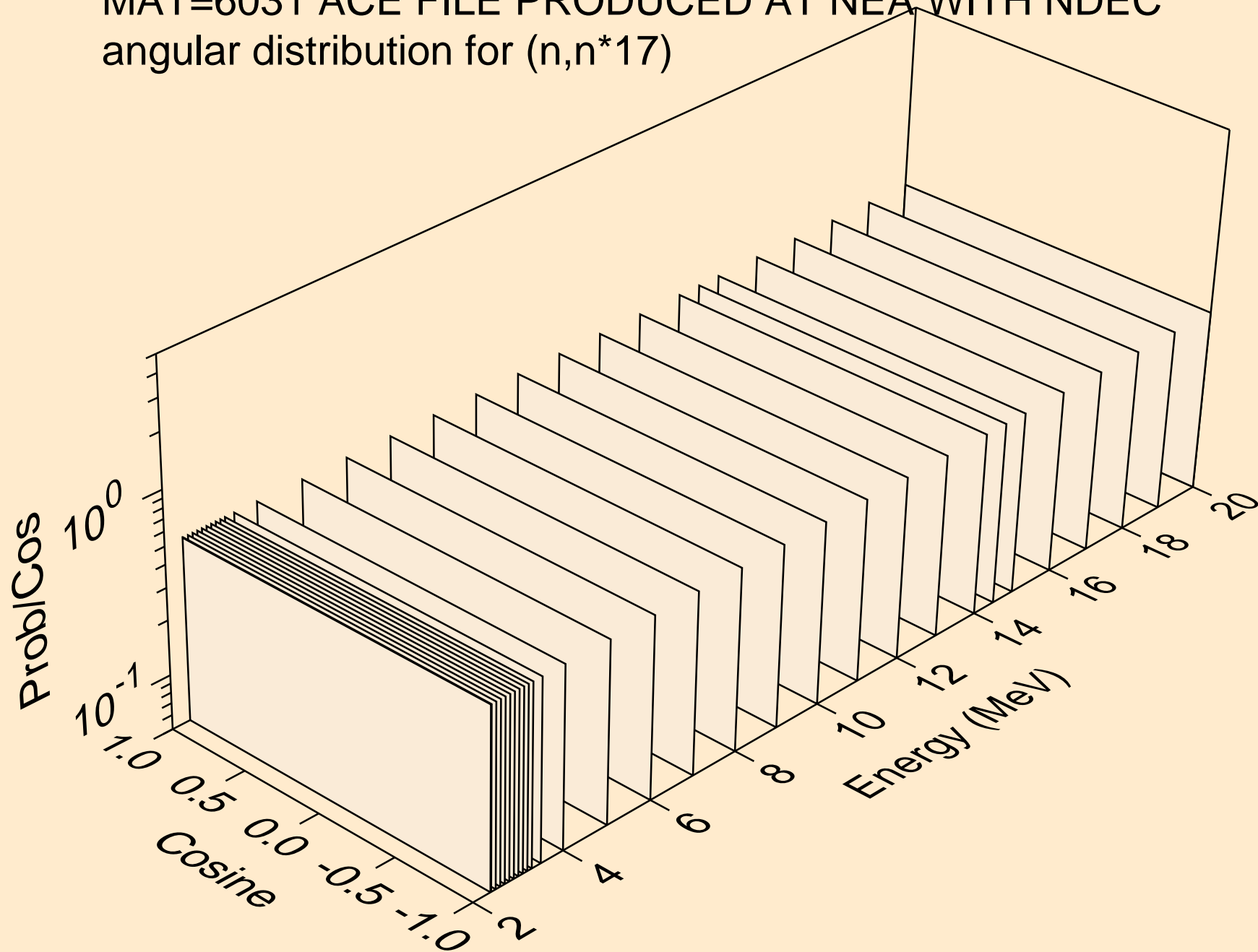
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angular distribution for (n,n\*15)



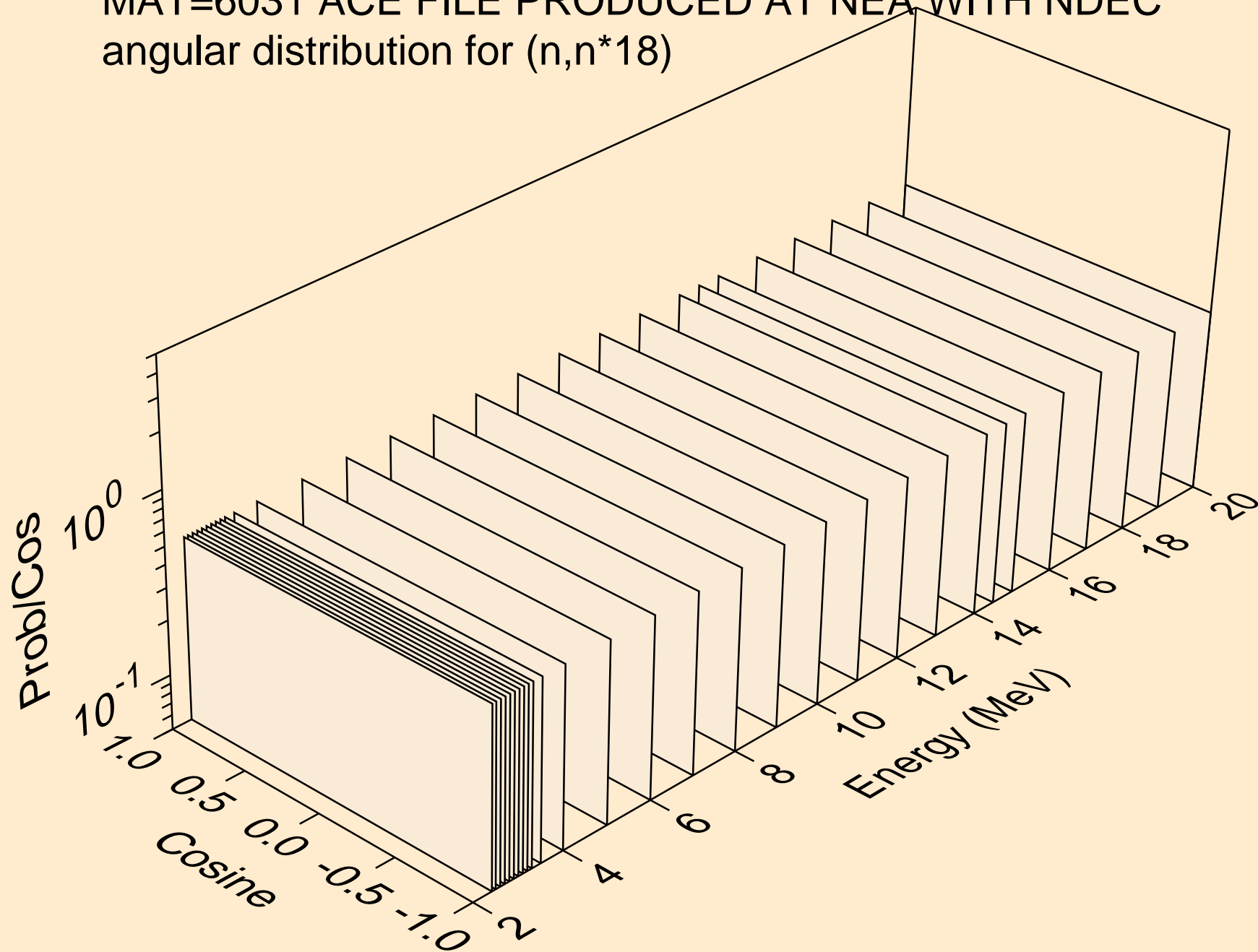
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angular distribution for (n,n\*16)



MAT=6031 ACE FILE PRODUCED AT NEA WITH NDEC  
angular distribution for (n,n\*17)

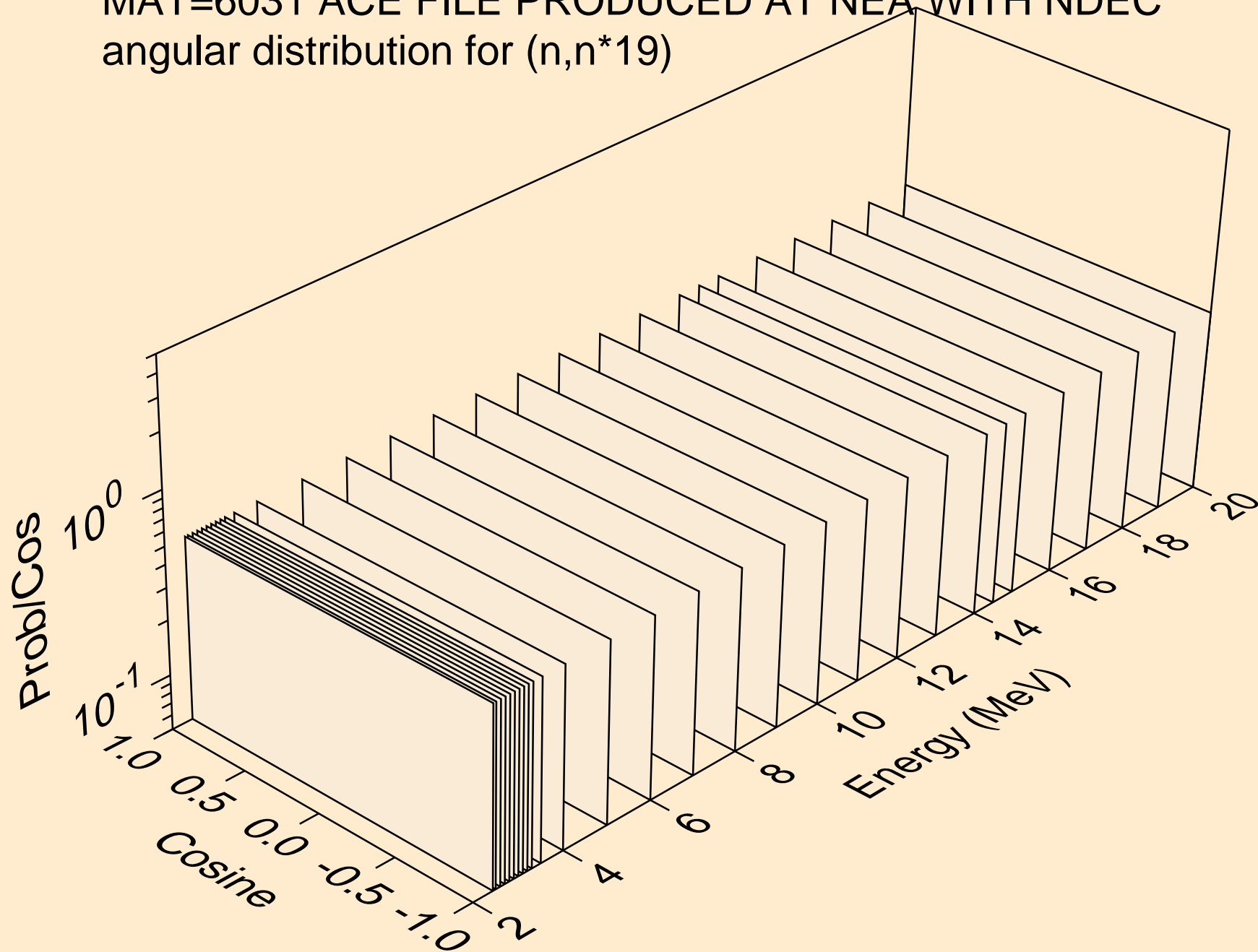


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angular distribution for (n,n\*18)

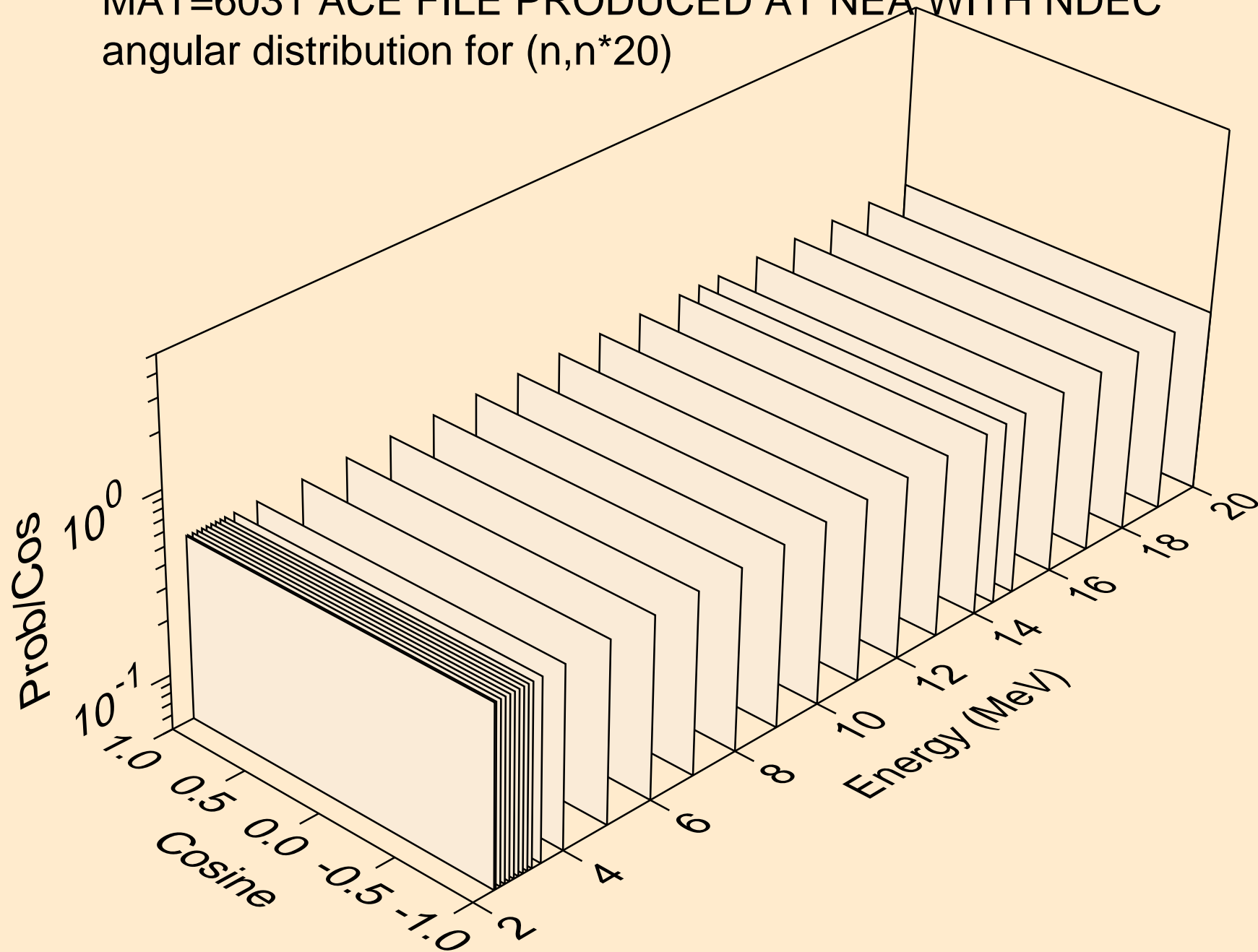




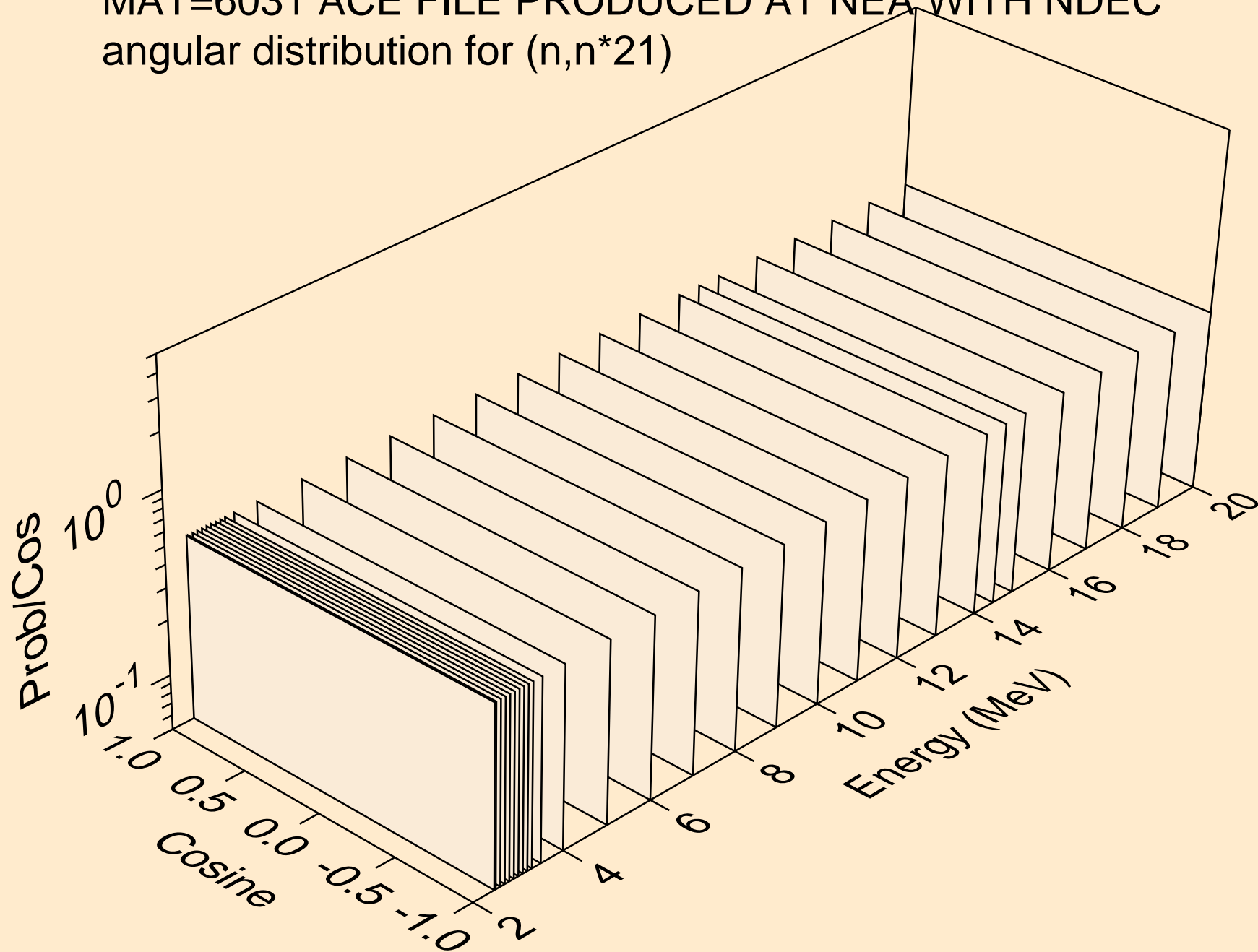
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angular distribution for (n,n\*19)



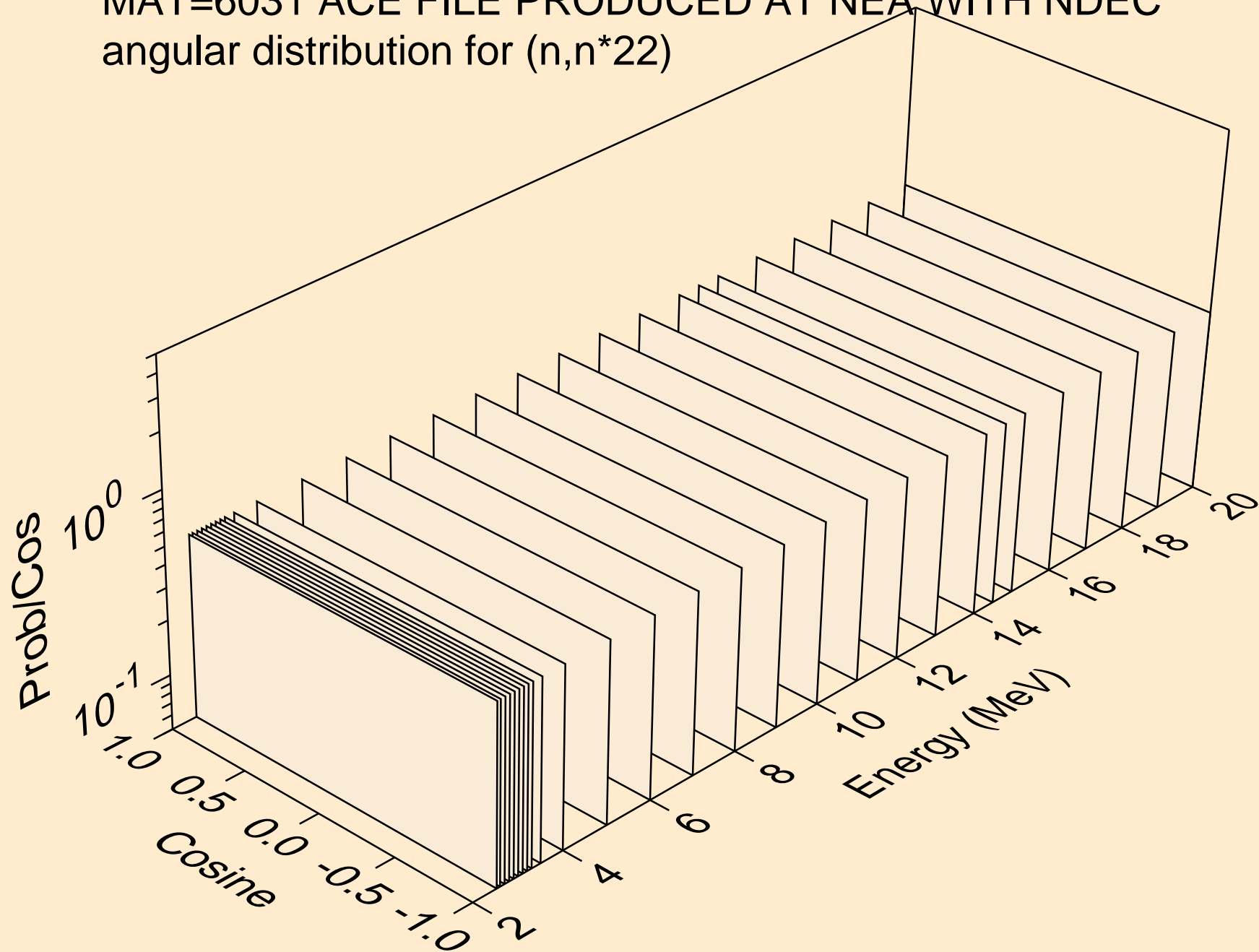
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angular distribution for (n,n\*20)



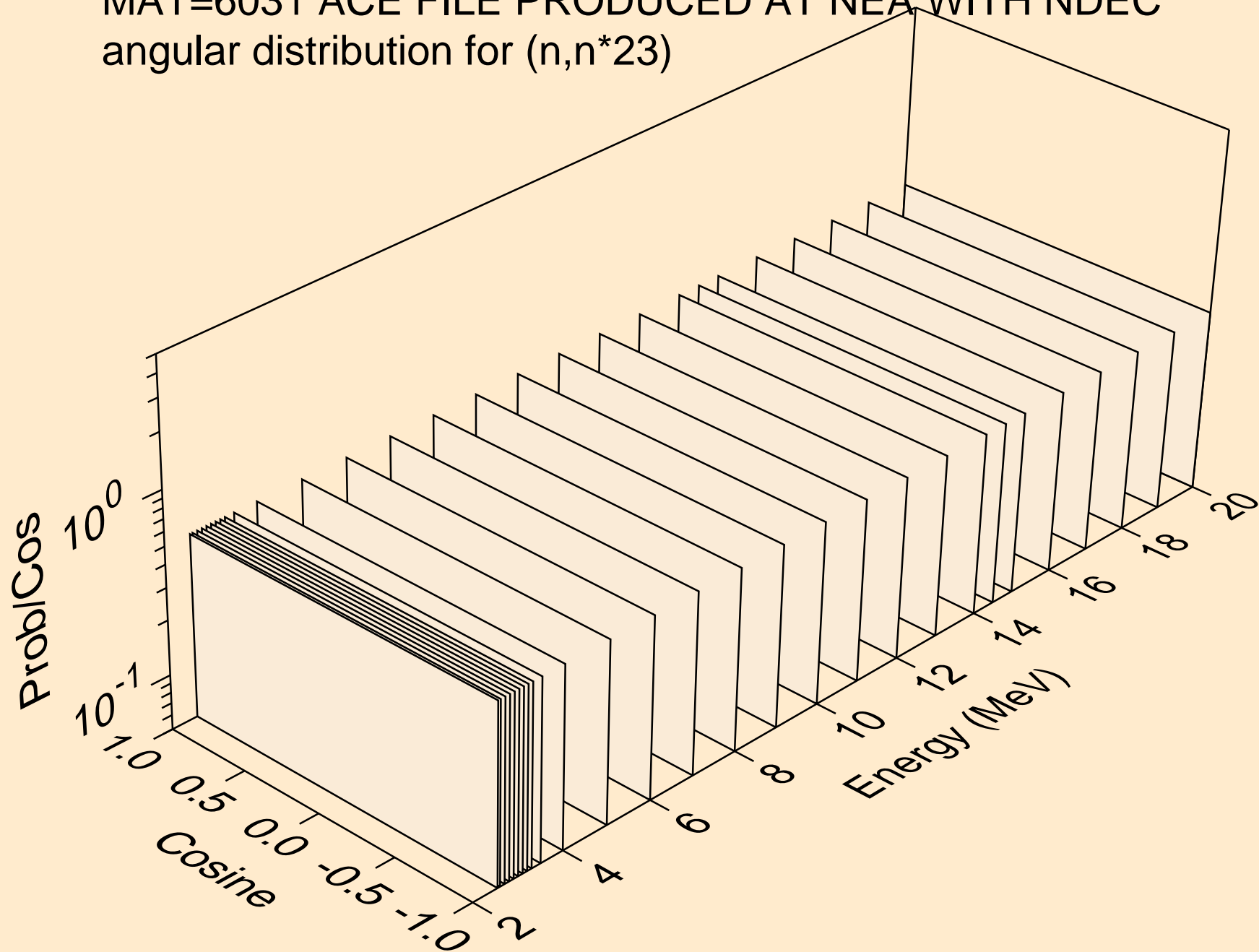
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angular distribution for (n,n\*21)



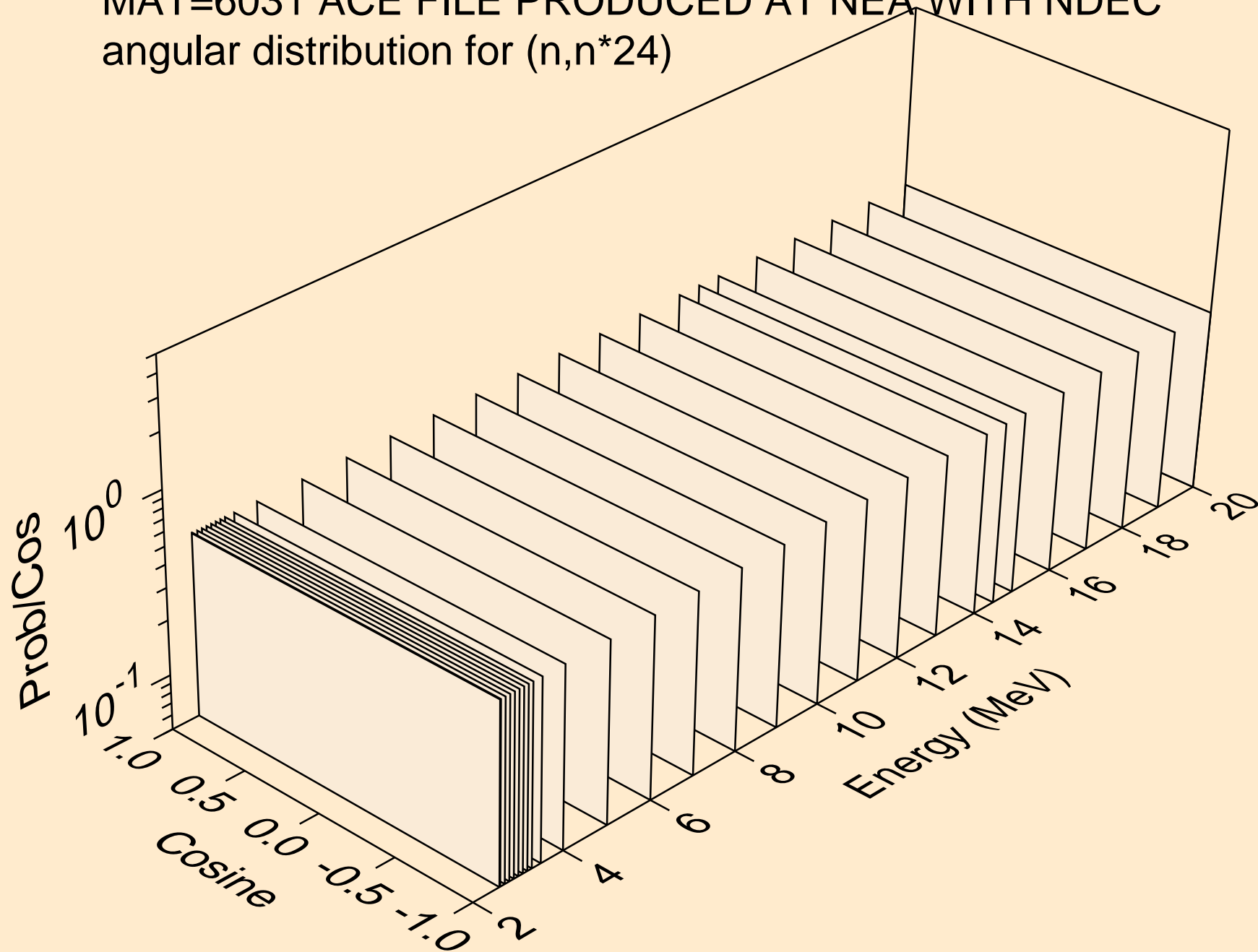
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angular distribution for (n,n\*22)



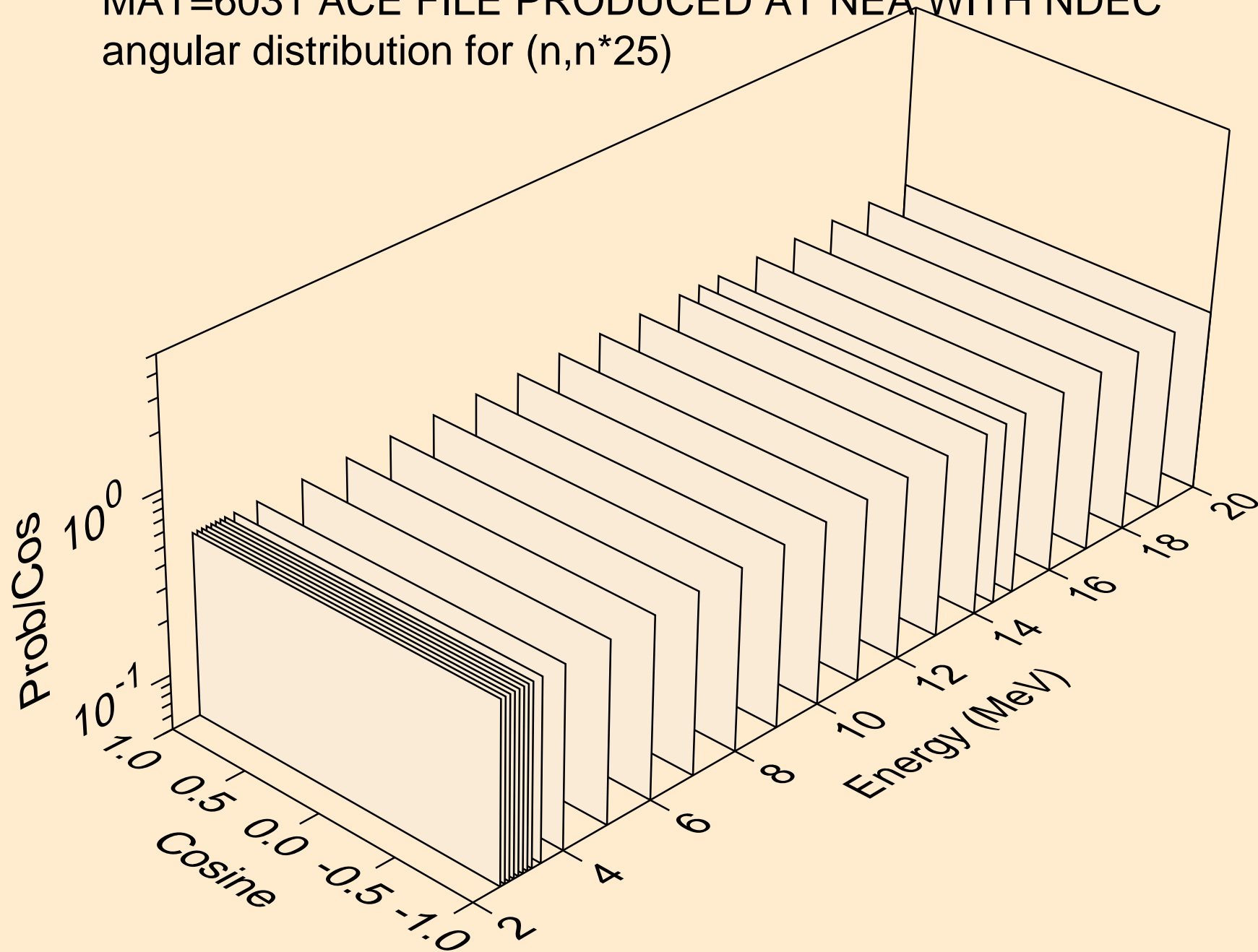
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angular distribution for (n,n\*23)



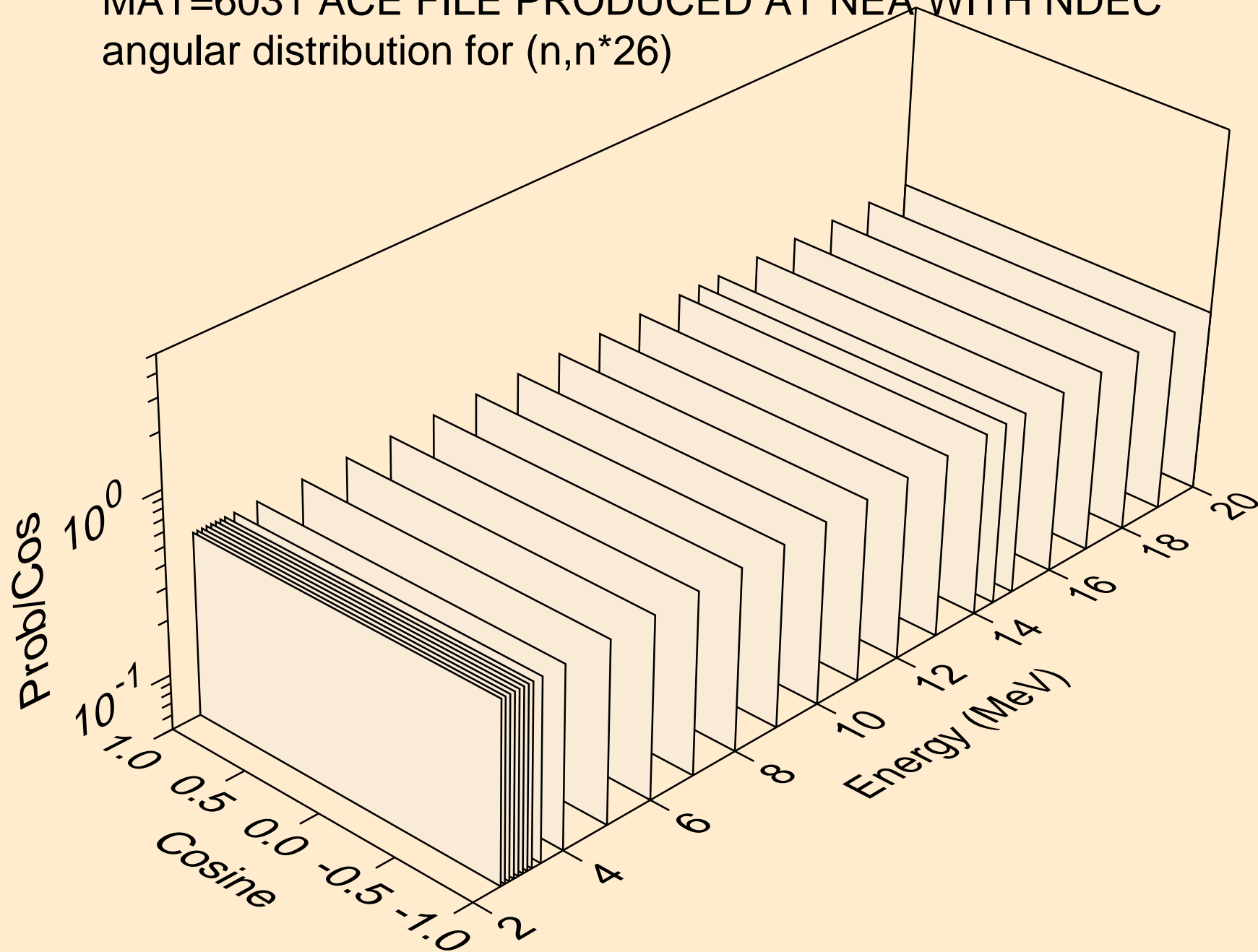
MAT=6031 ACE FILE PRODUCED AT NEA WITH NDEC  
angular distribution for (n,n\*24)



MAT=6031 ACE FILE PRODUCED AT NEA WITH NDEC  
angular distribution for (n,n\*25)

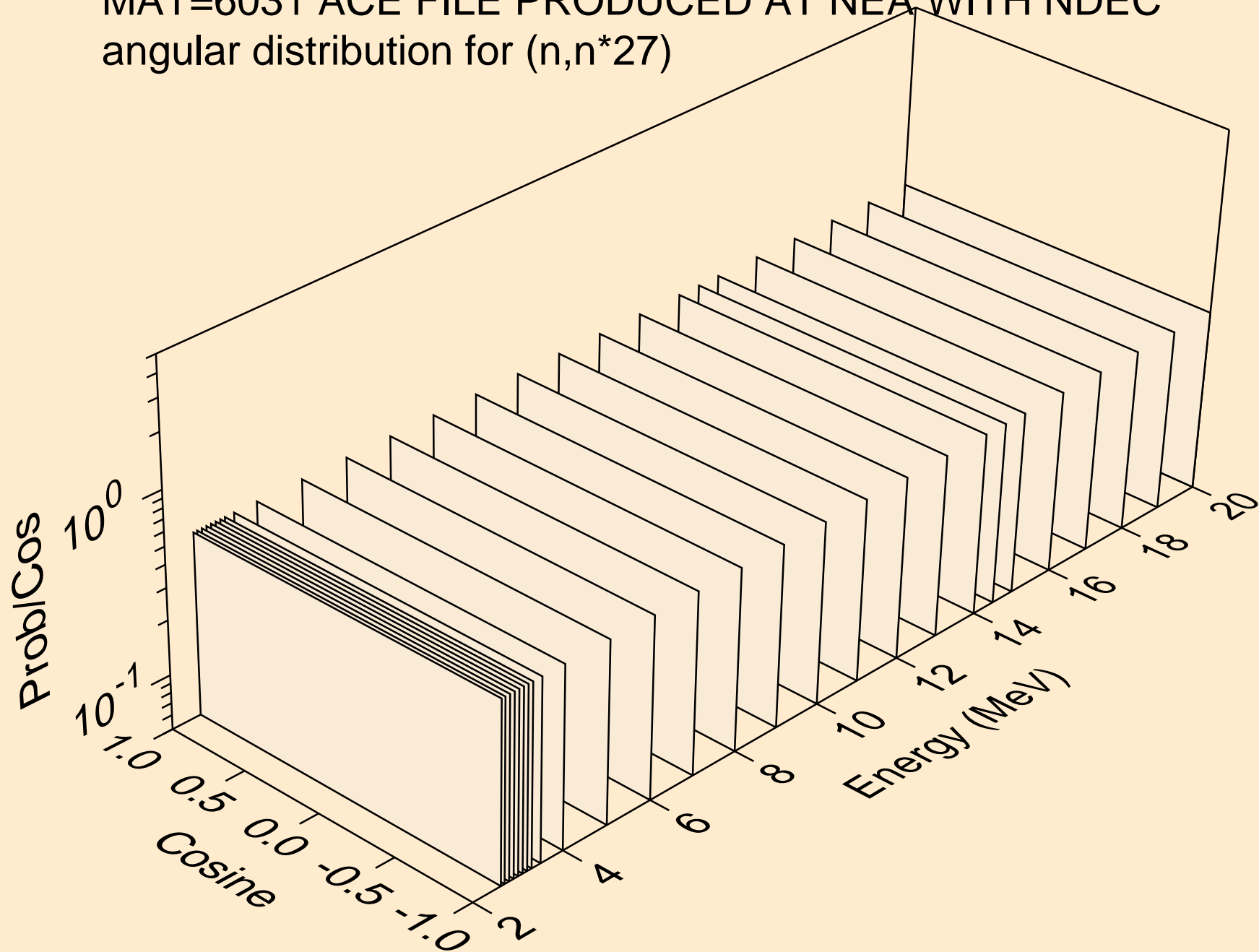


MAT=6031 ACE FILE PRODUCED AT NEA WITH NDEC  
angular distribution for (n,n\*26)

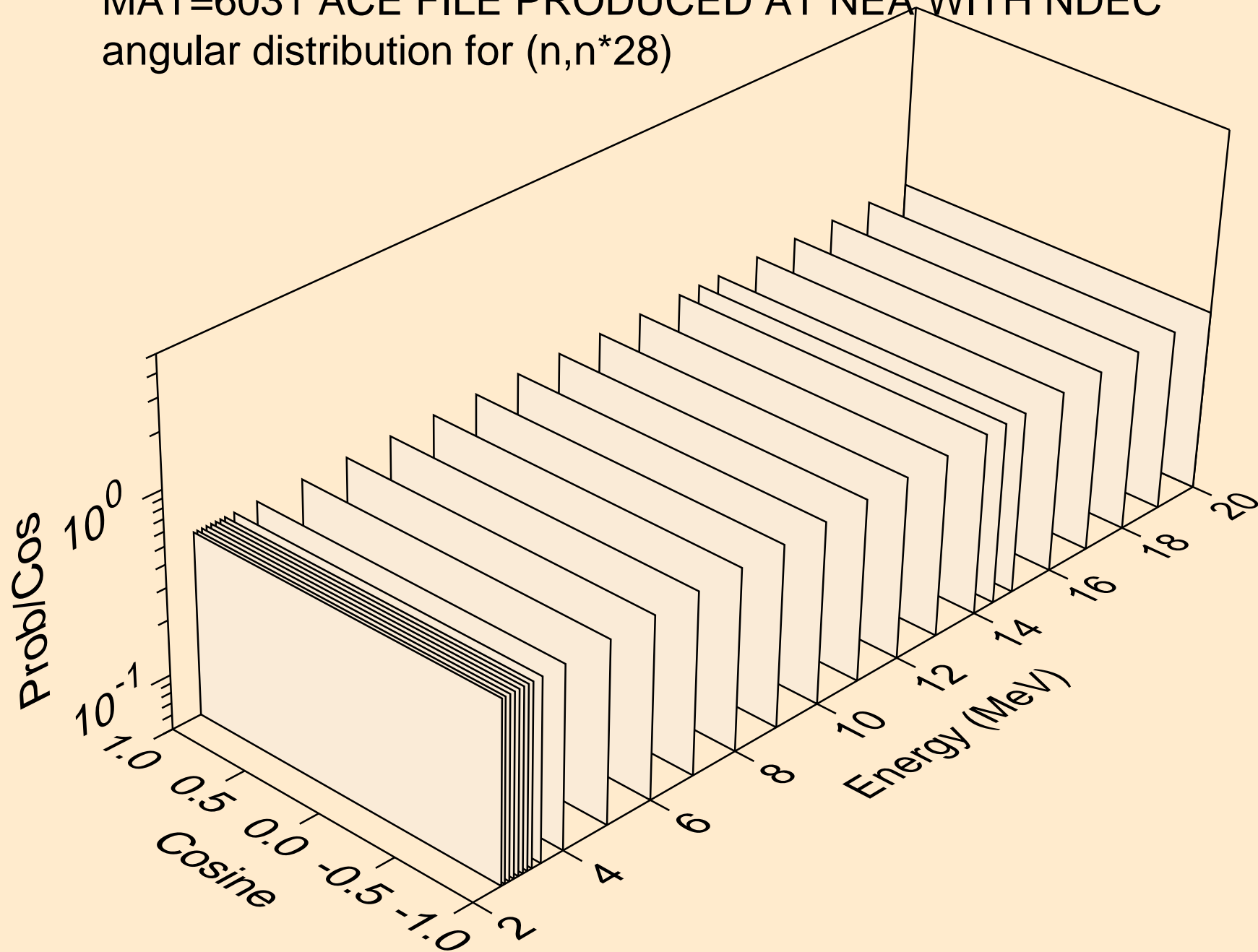




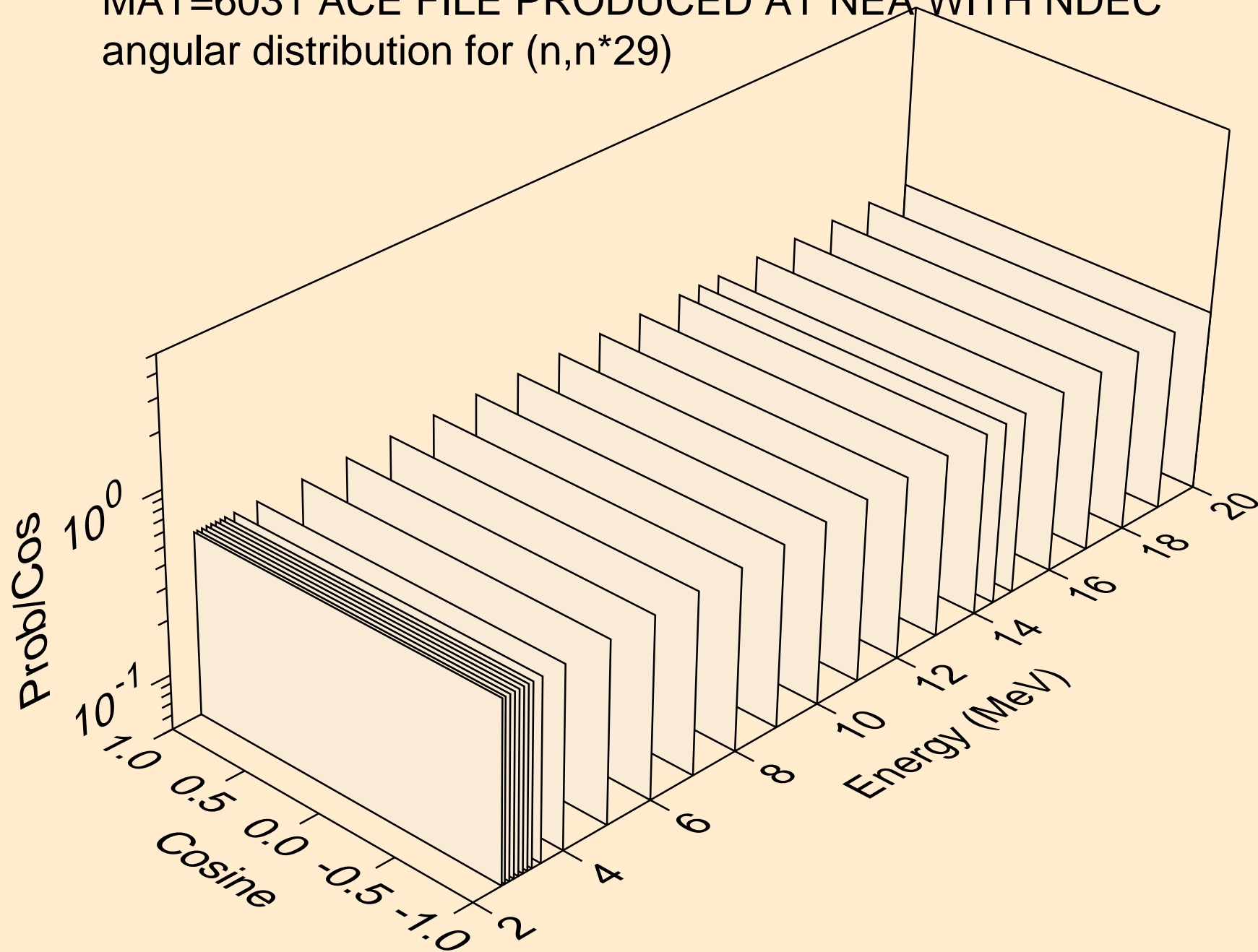
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angular distribution for (n,n\*27)



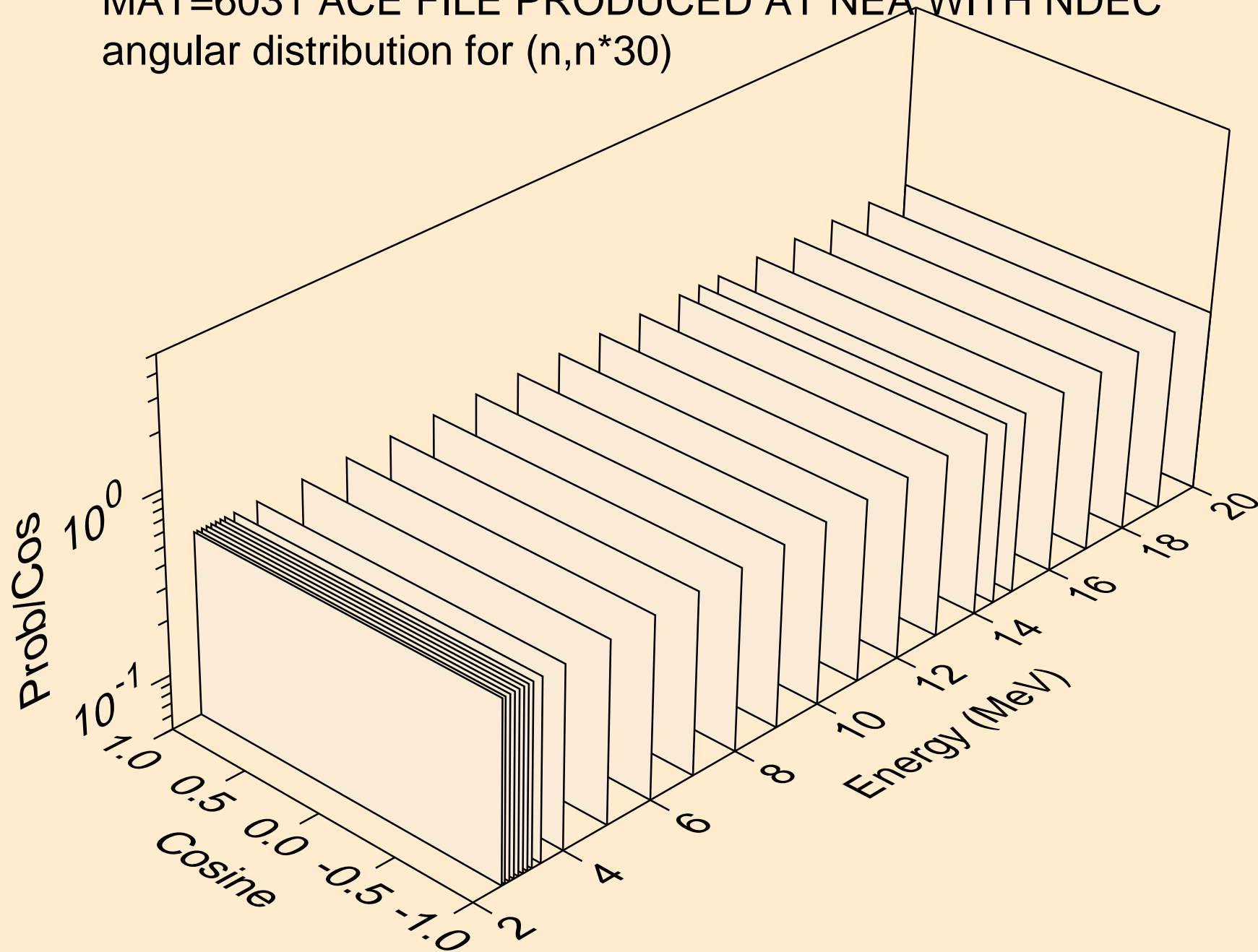
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angular distribution for (n,n\*28)



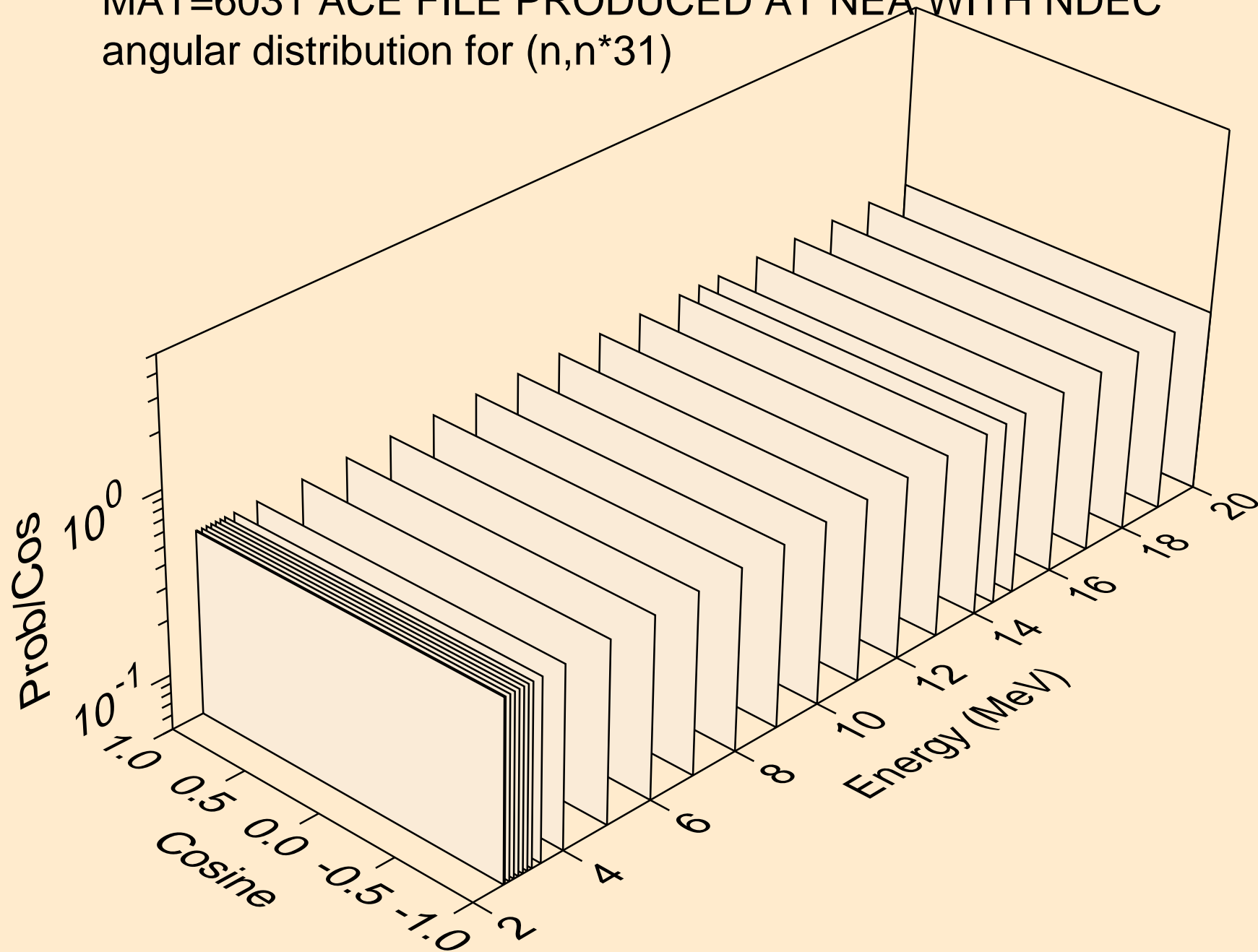
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angular distribution for (n,n\*29)



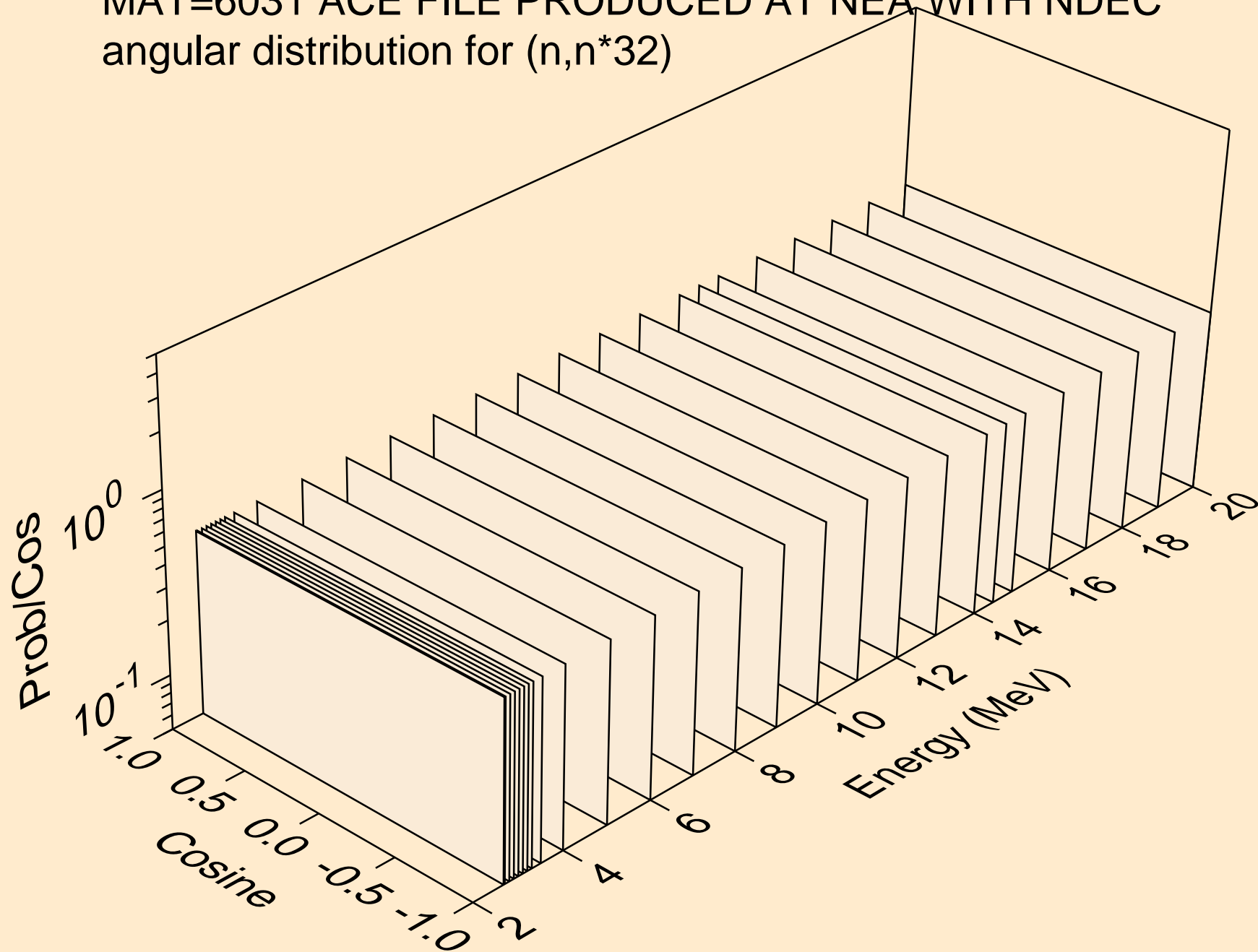
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angular distribution for (n,n\*30)



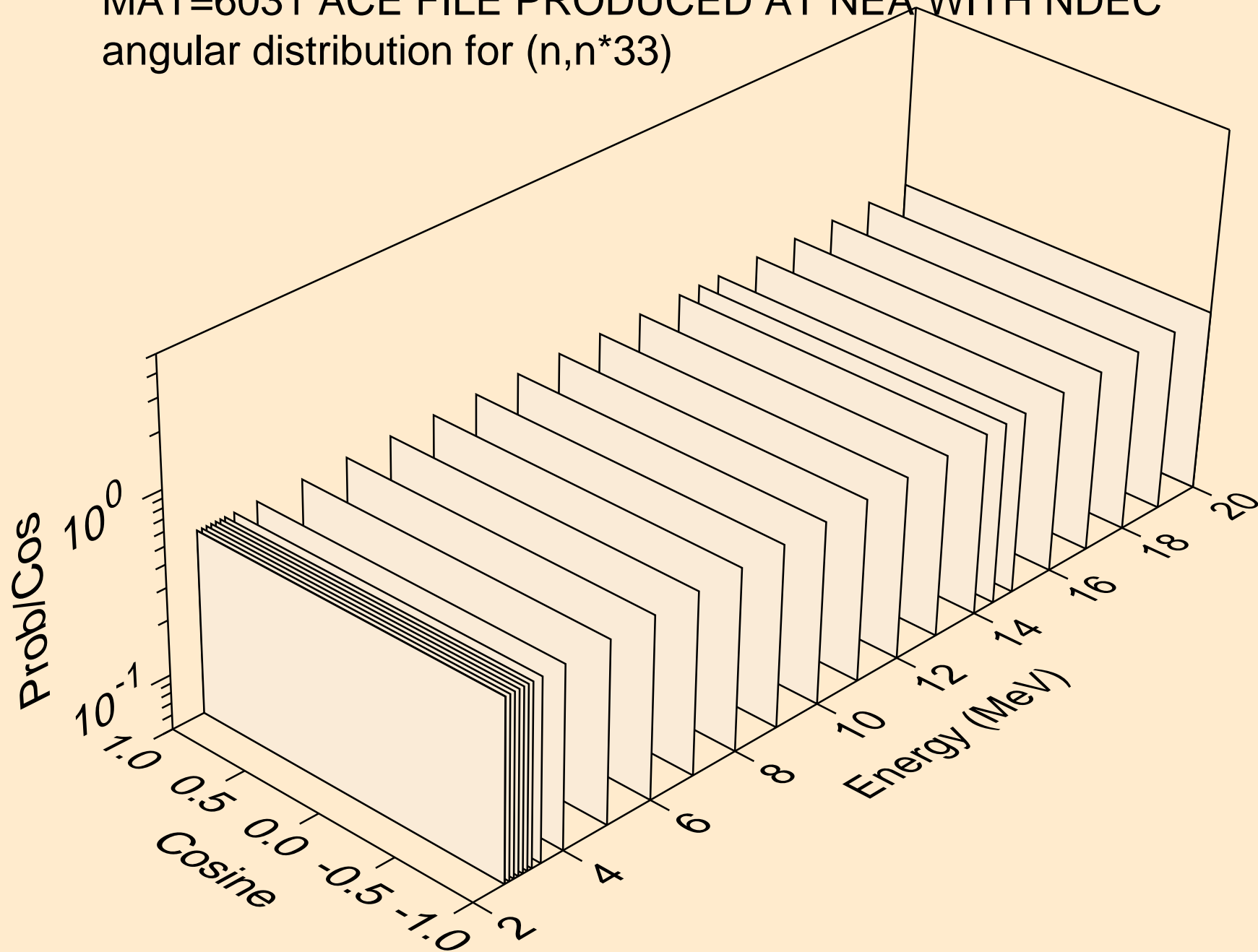
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angular distribution for (n,n\*31)



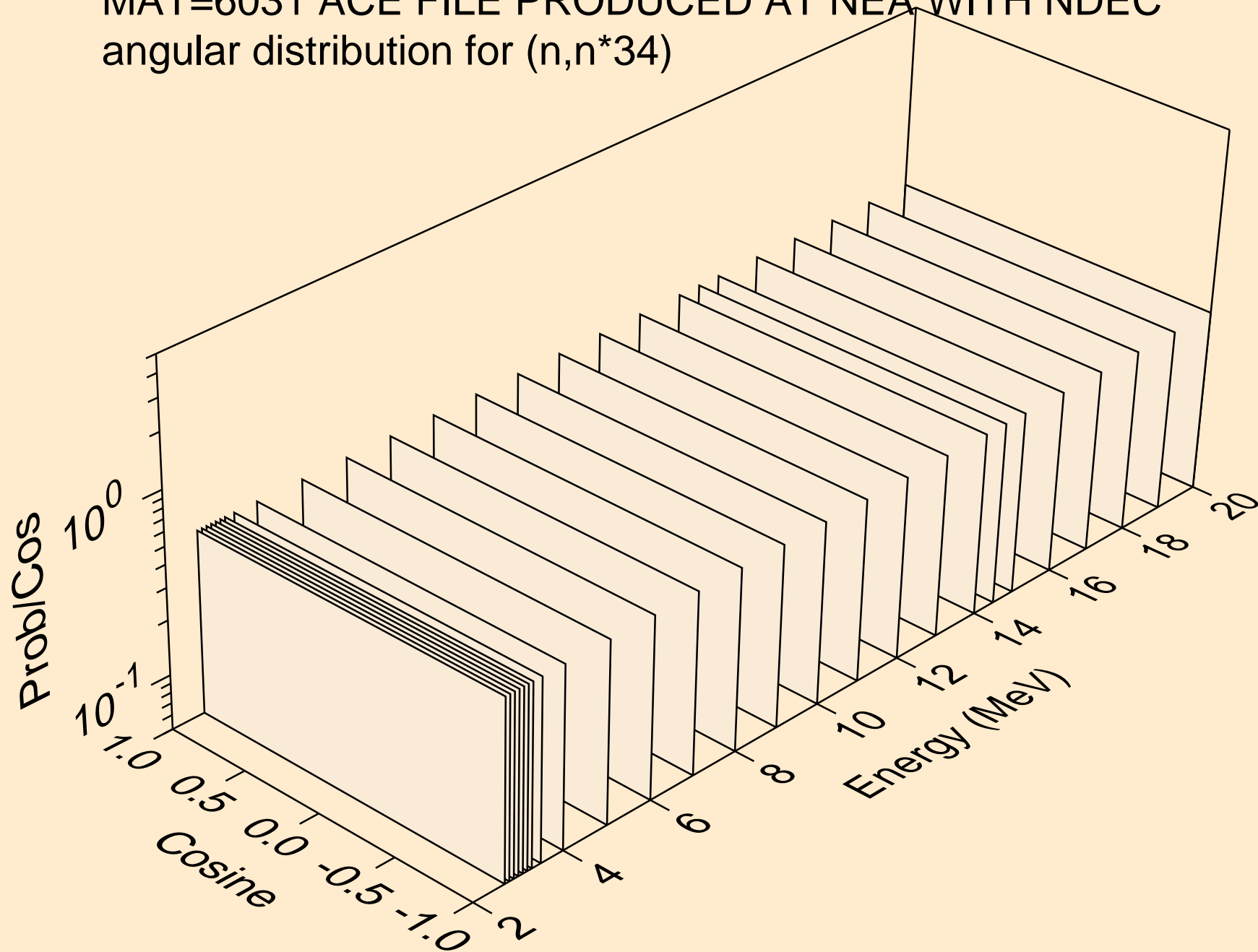
MAT=6031 ACE FILE PRODUCED AT NEA WITH NDEC  
angular distribution for (n,n\*32)



MAT=6031 ACE FILE PRODUCED AT NEA WITH NDEC  
angular distribution for (n,n\*33)

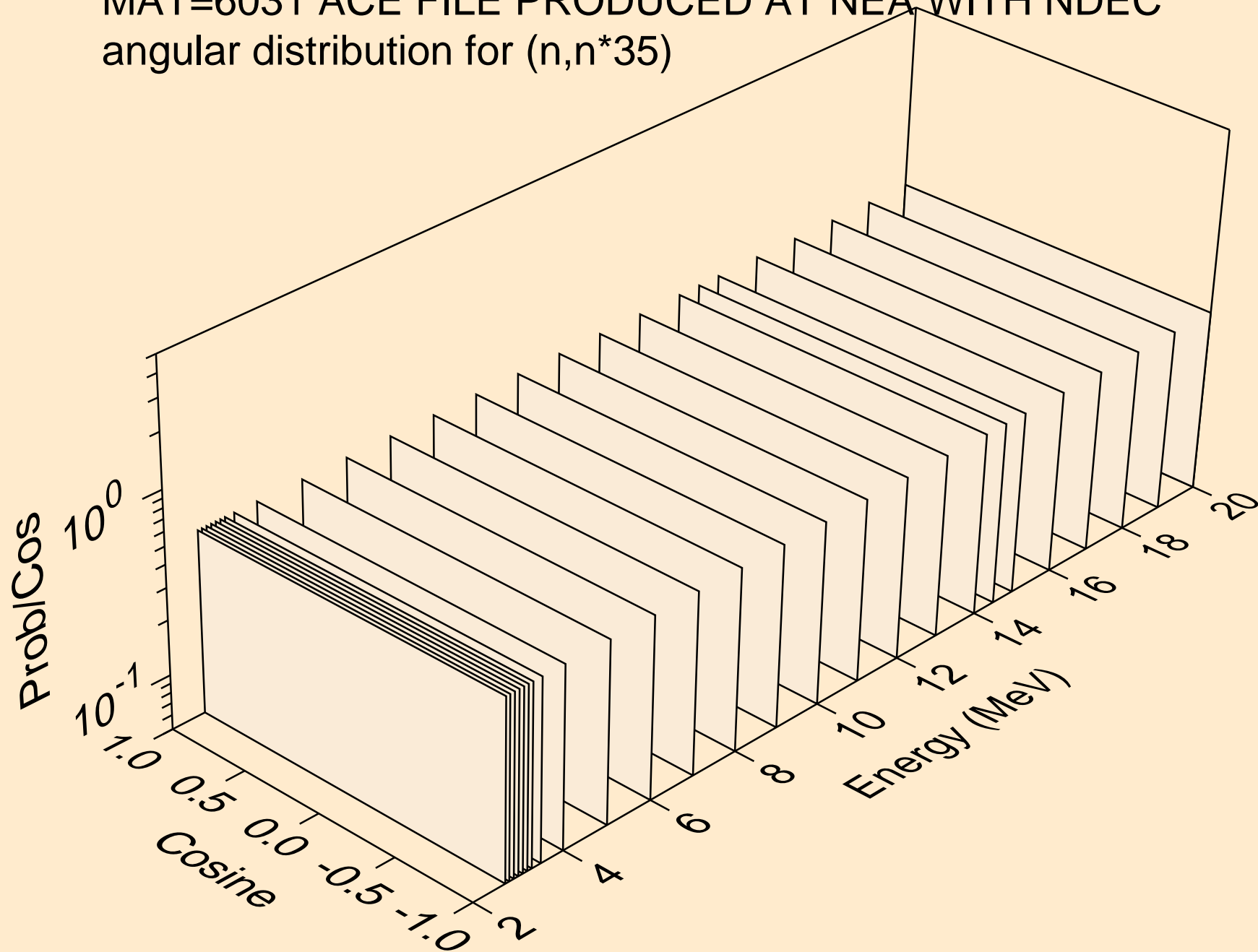


MAT=6031 ACE FILE PRODUCED AT NEA WITH NDEC  
angular distribution for (n,n\*34)

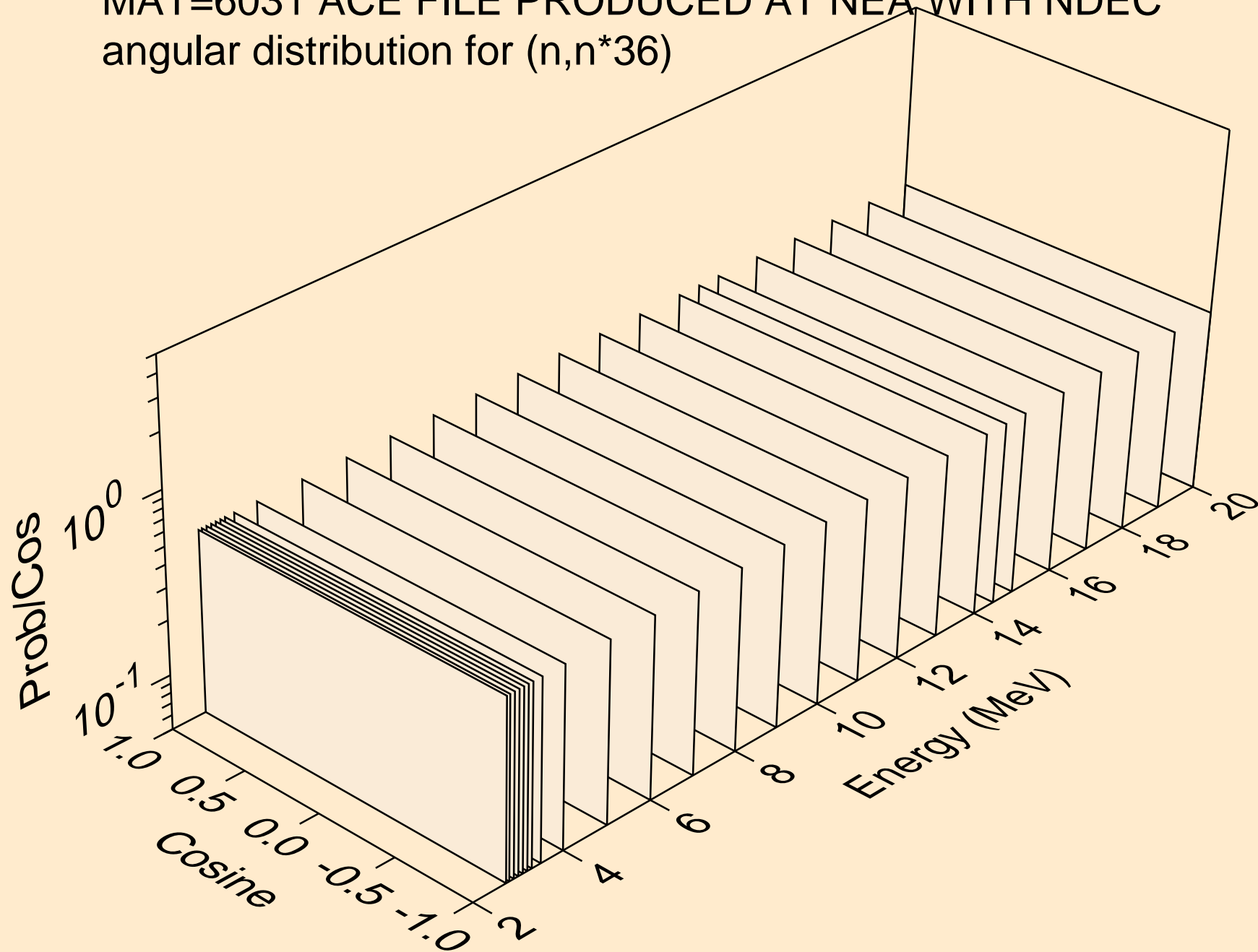




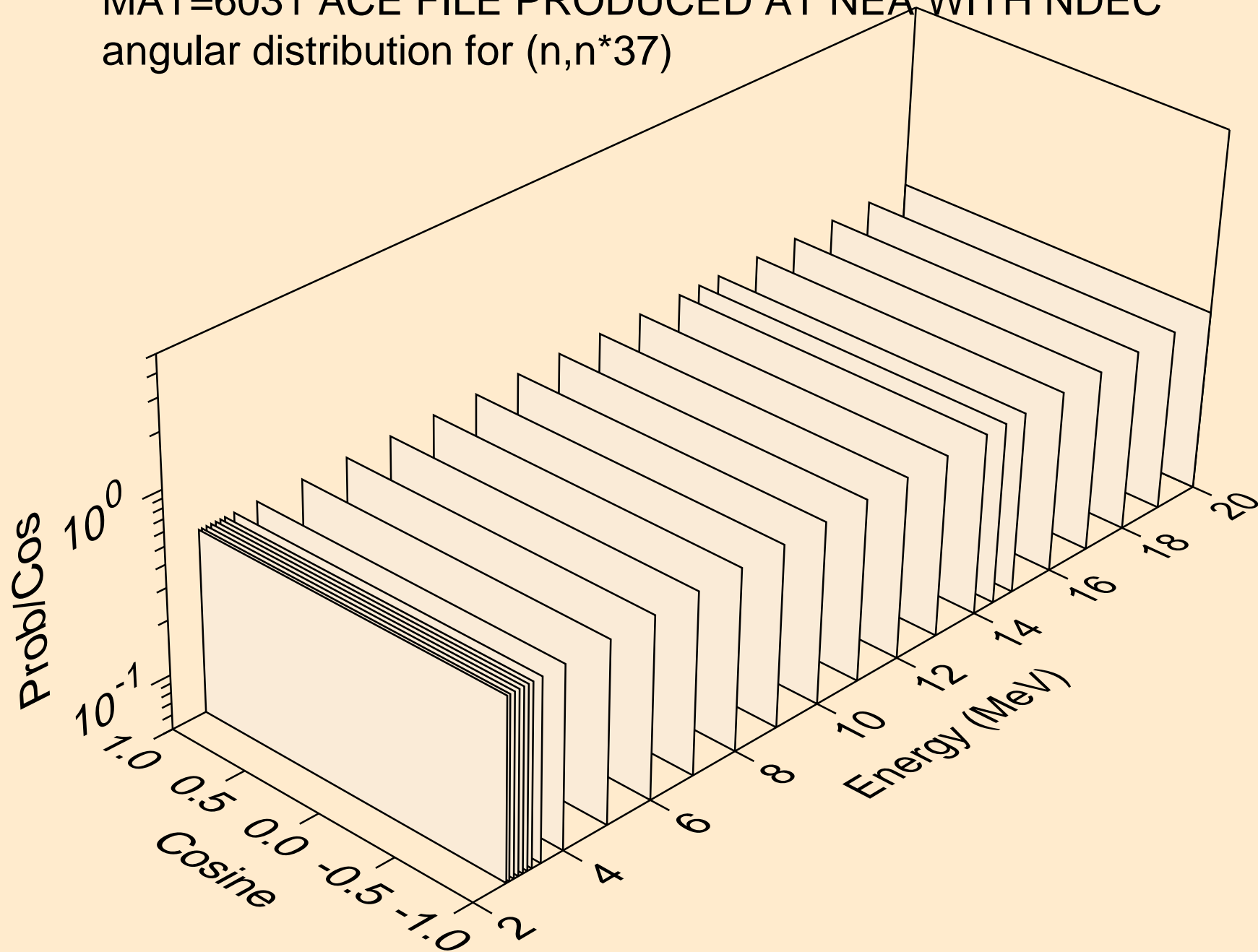
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angular distribution for (n,n\*35)



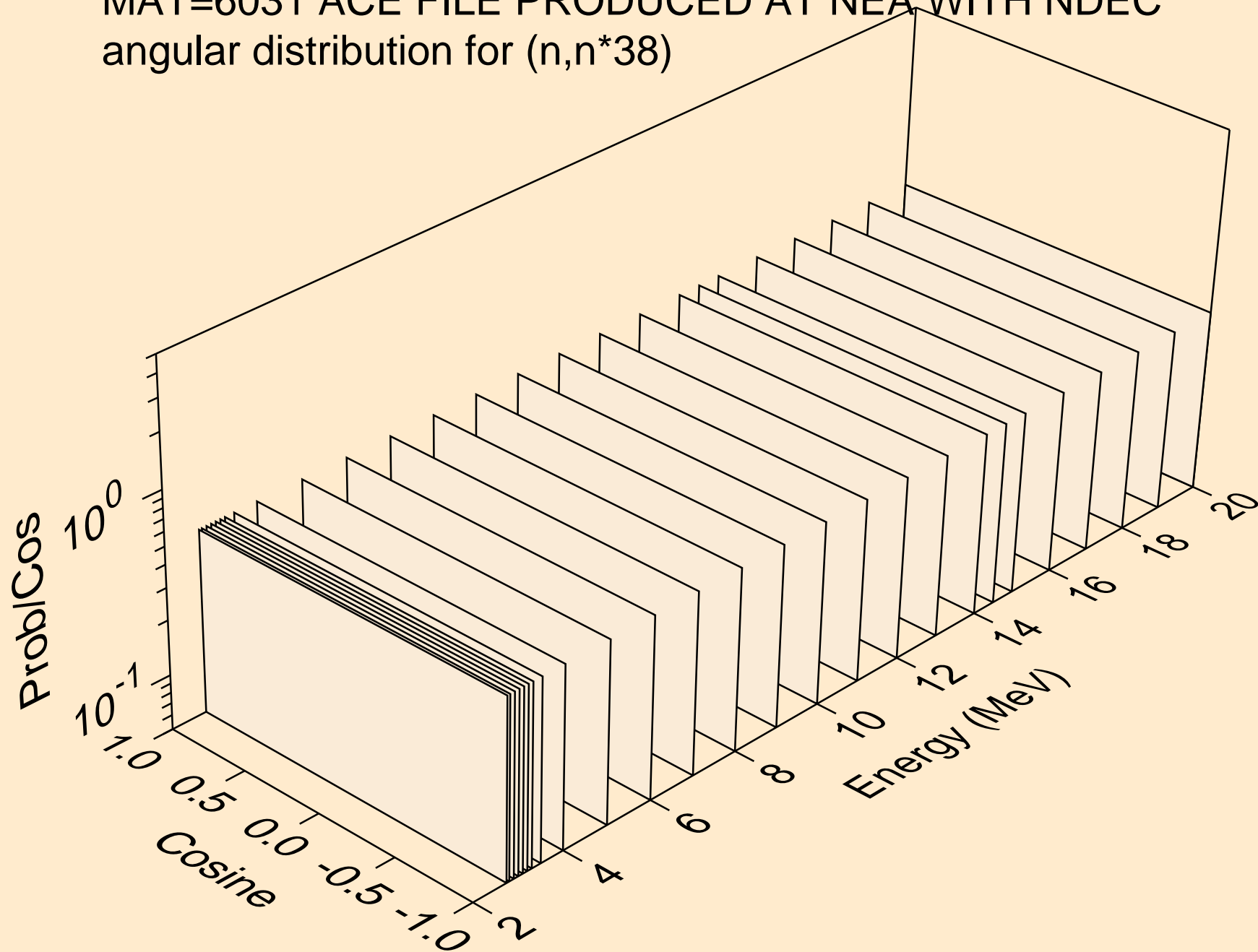
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angular distribution for (n,n\*36)



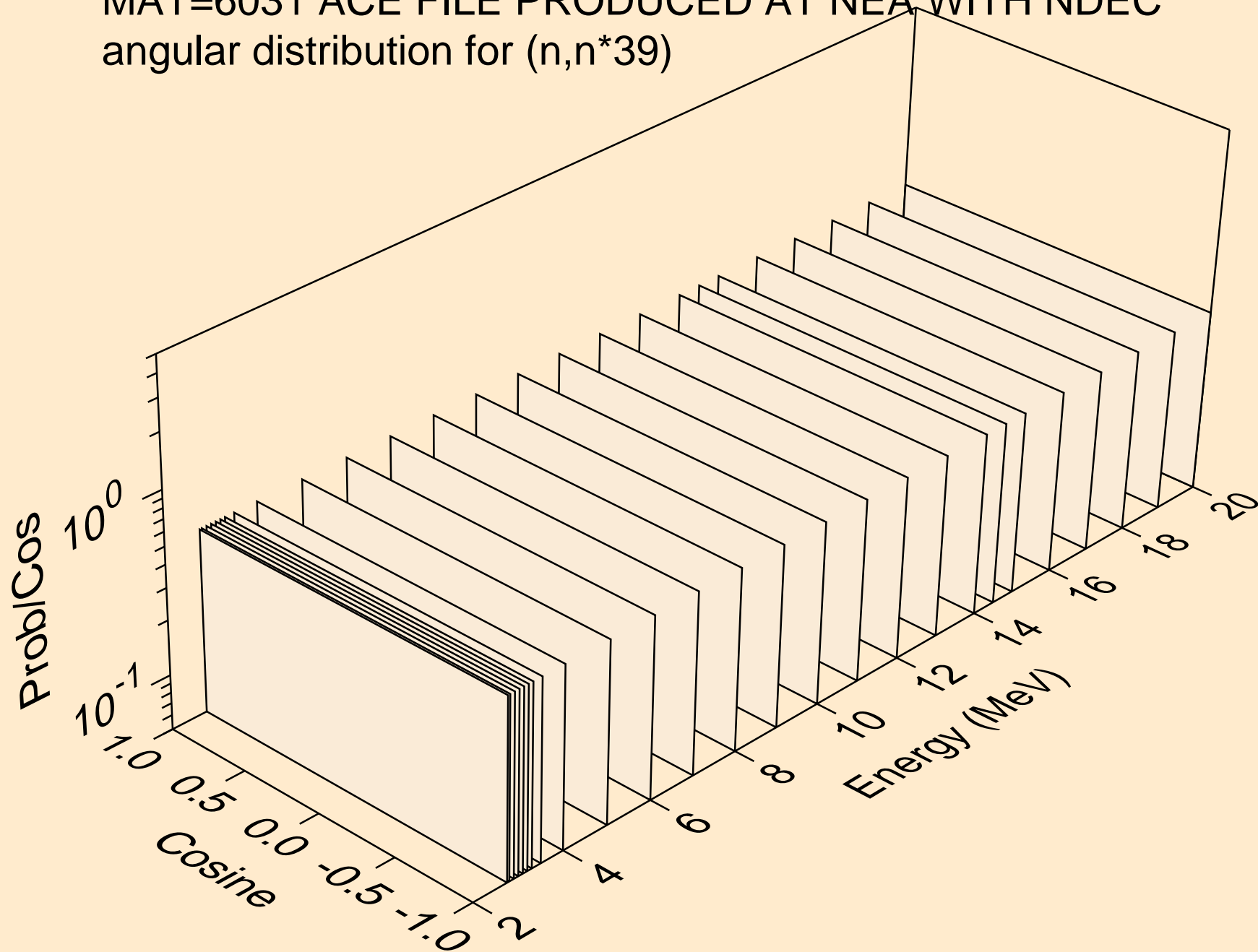
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angular distribution for (n,n\*37)



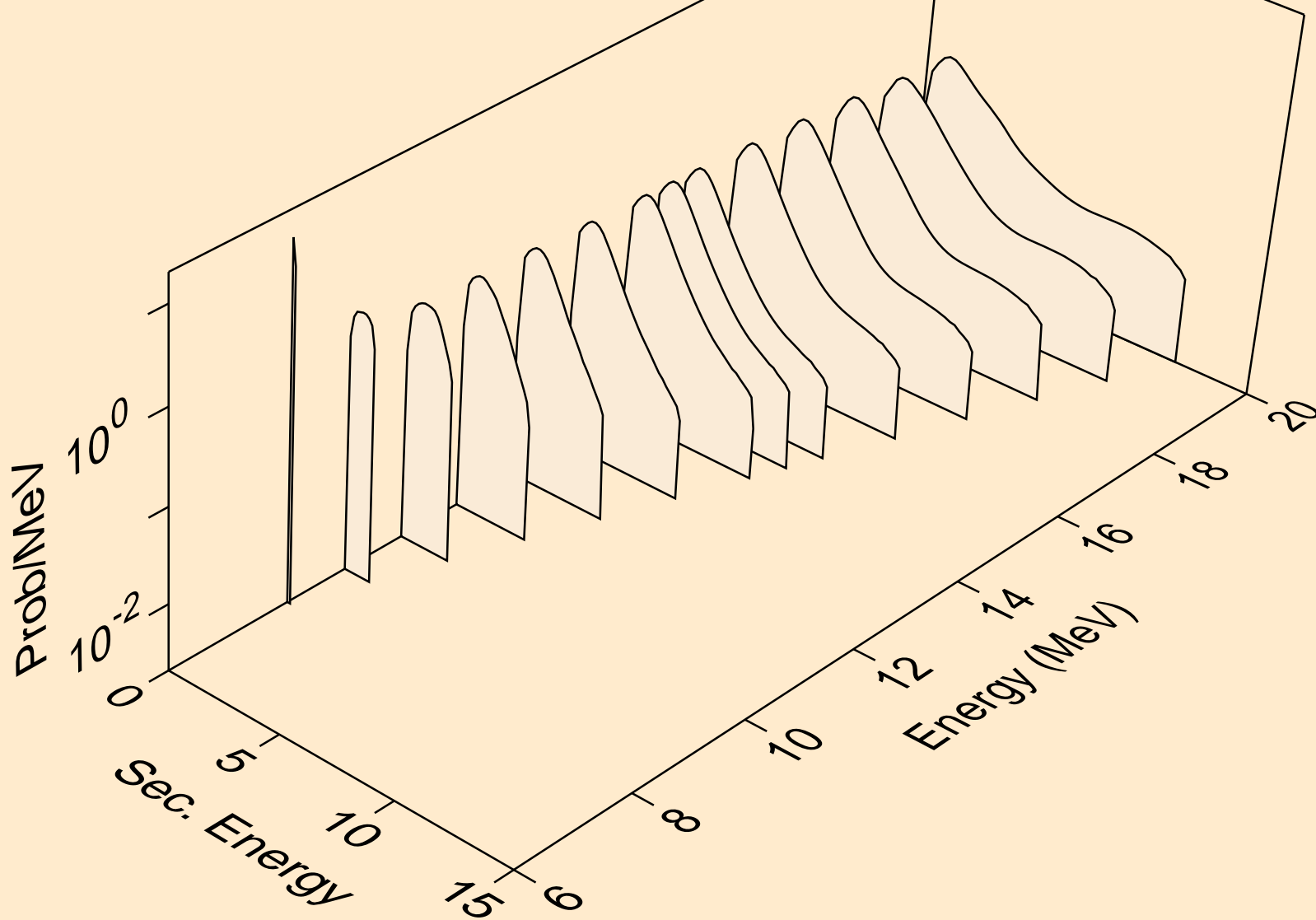
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angular distribution for (n,n\*38)



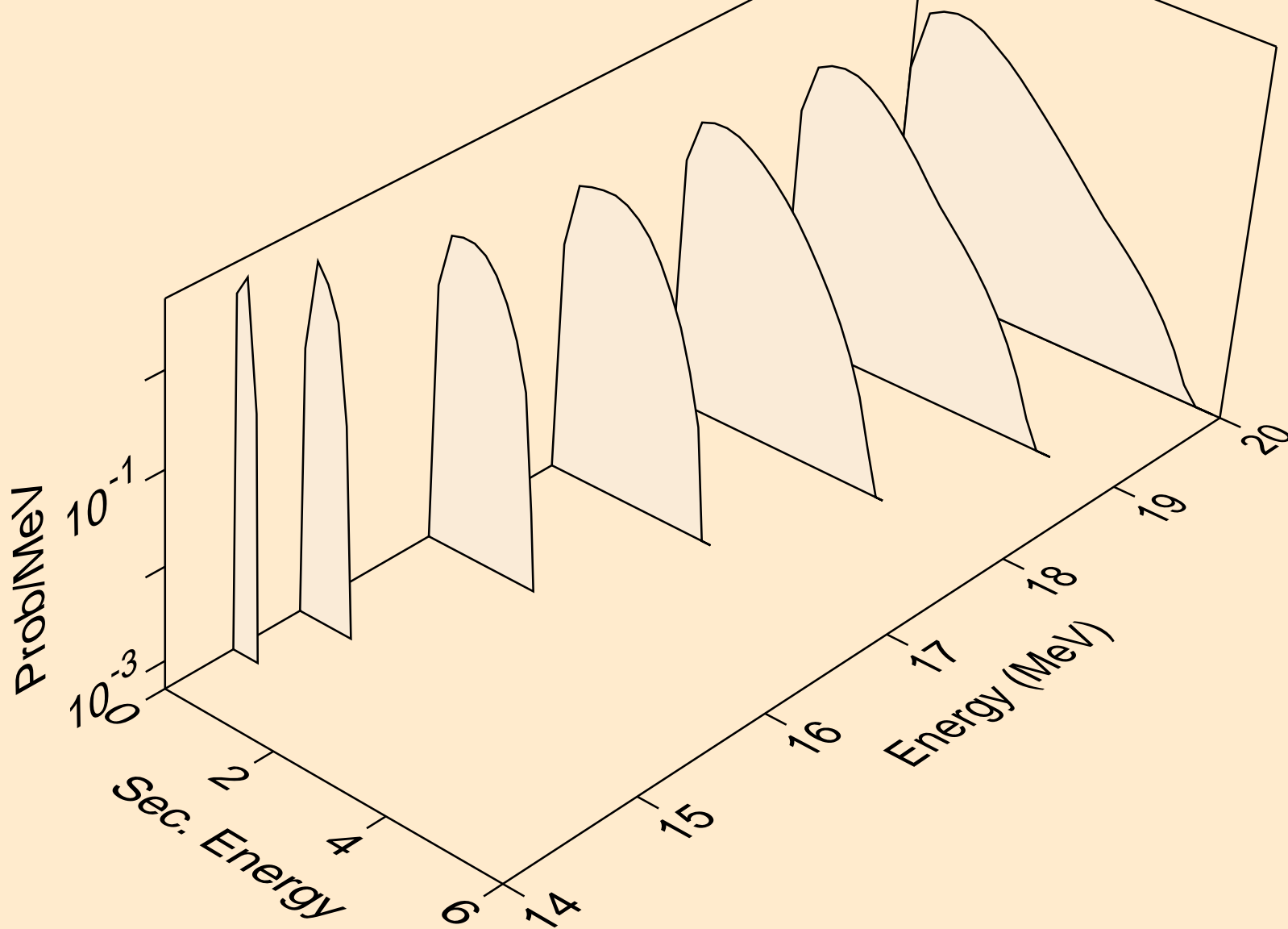
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angular distribution for (n,n\*39)



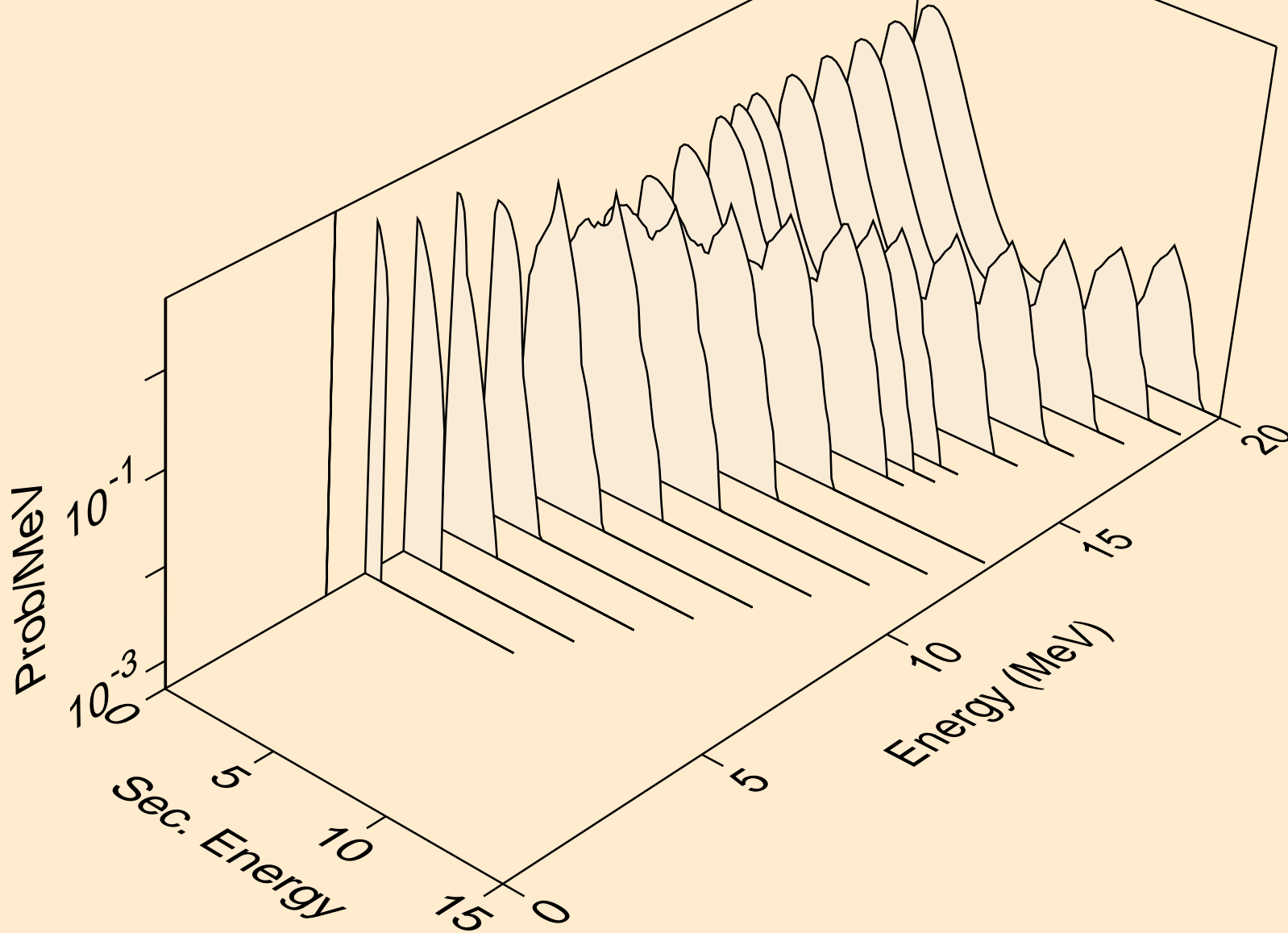
MAT=6031 ACE FILE PRODUCED AT NEA WITH NDEC  
Neutron emission for (n,2n)



MAT=6031 ACE FILE PRODUCED AT NEA WITH NDEC  
Neutron emission for (n,3n)

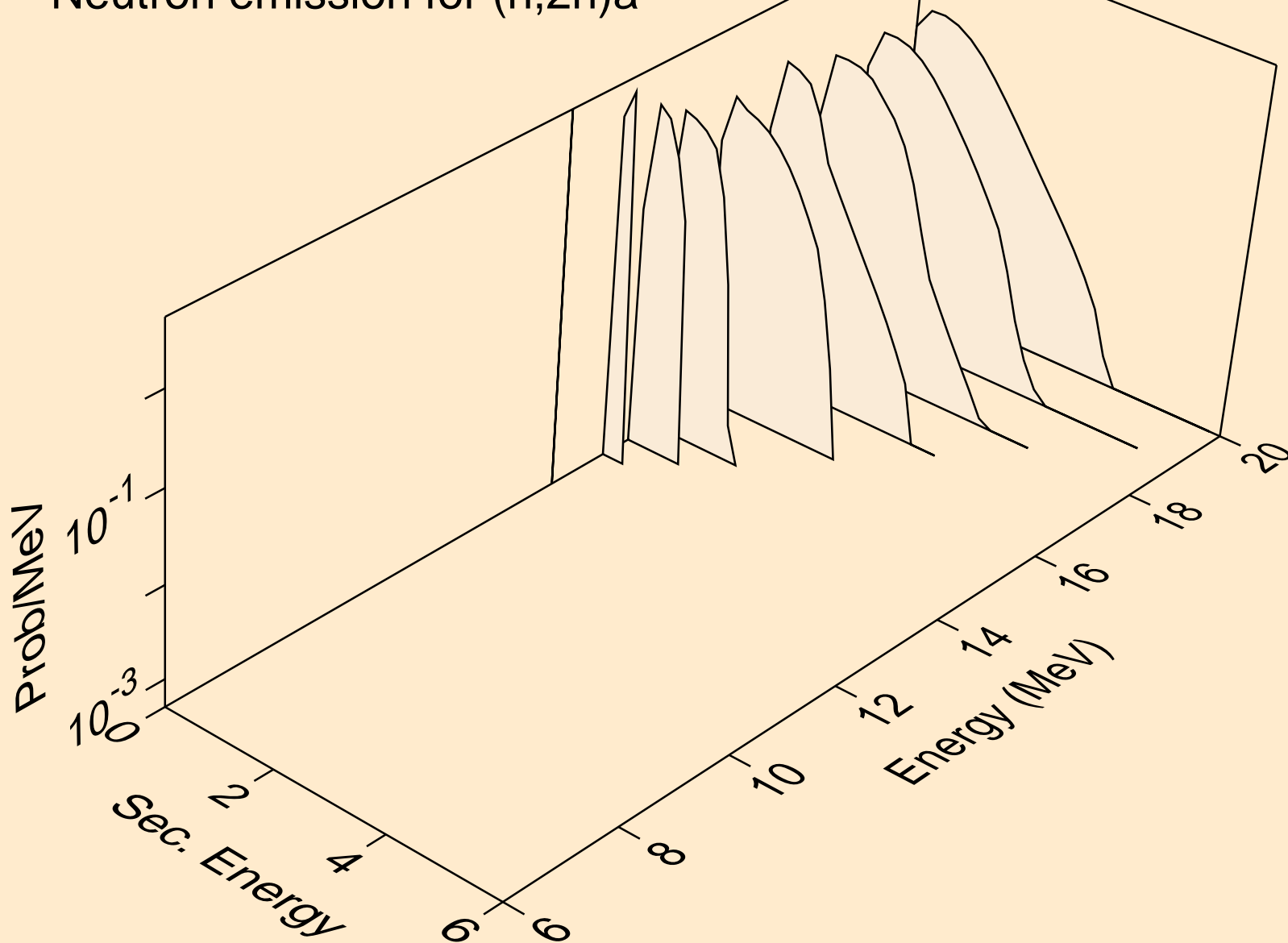


MAT=6031 ACE FILE PRODUCED AT NEA WITH NDEC  
Neutron emission for (n,n\*)a

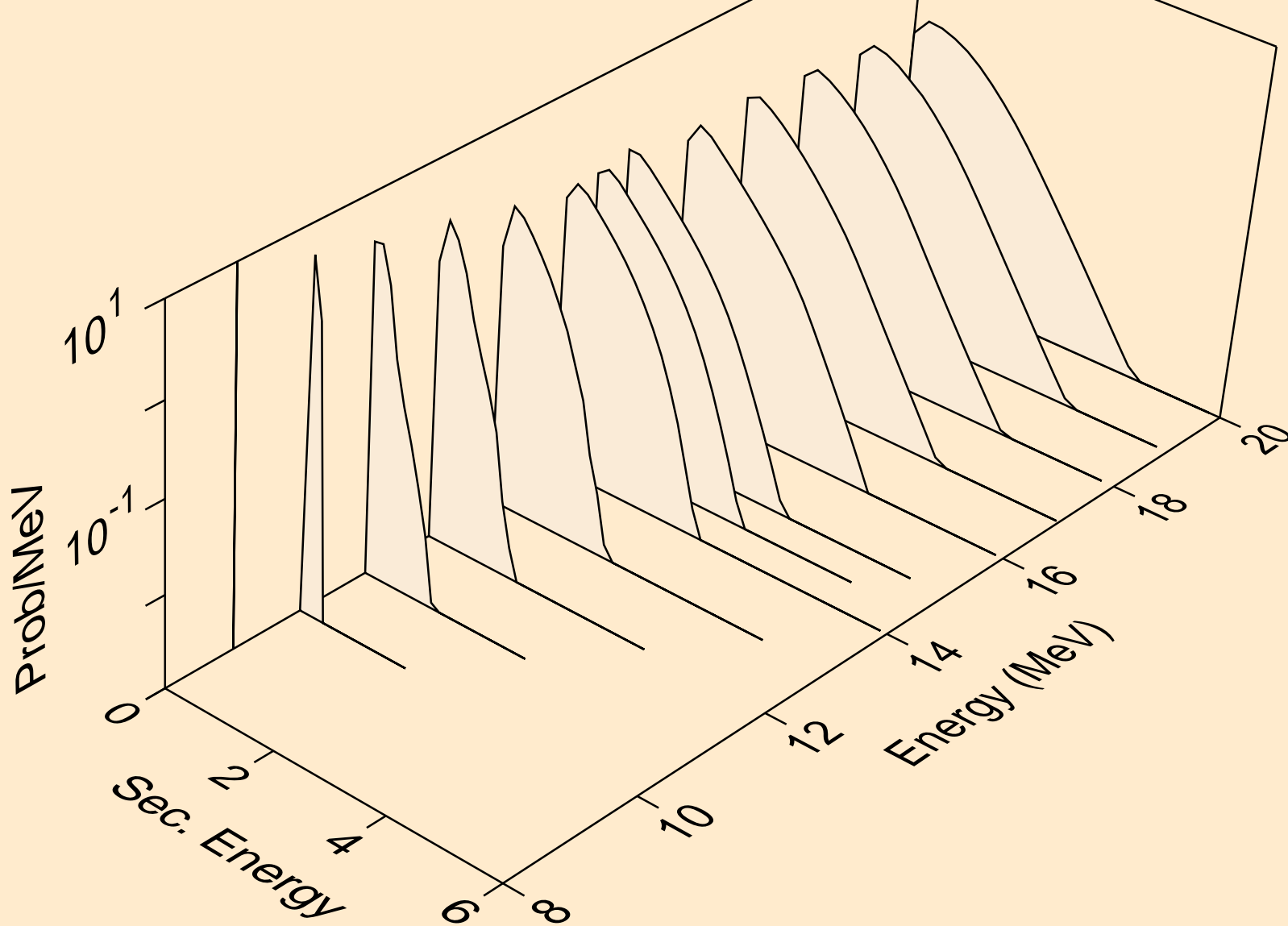




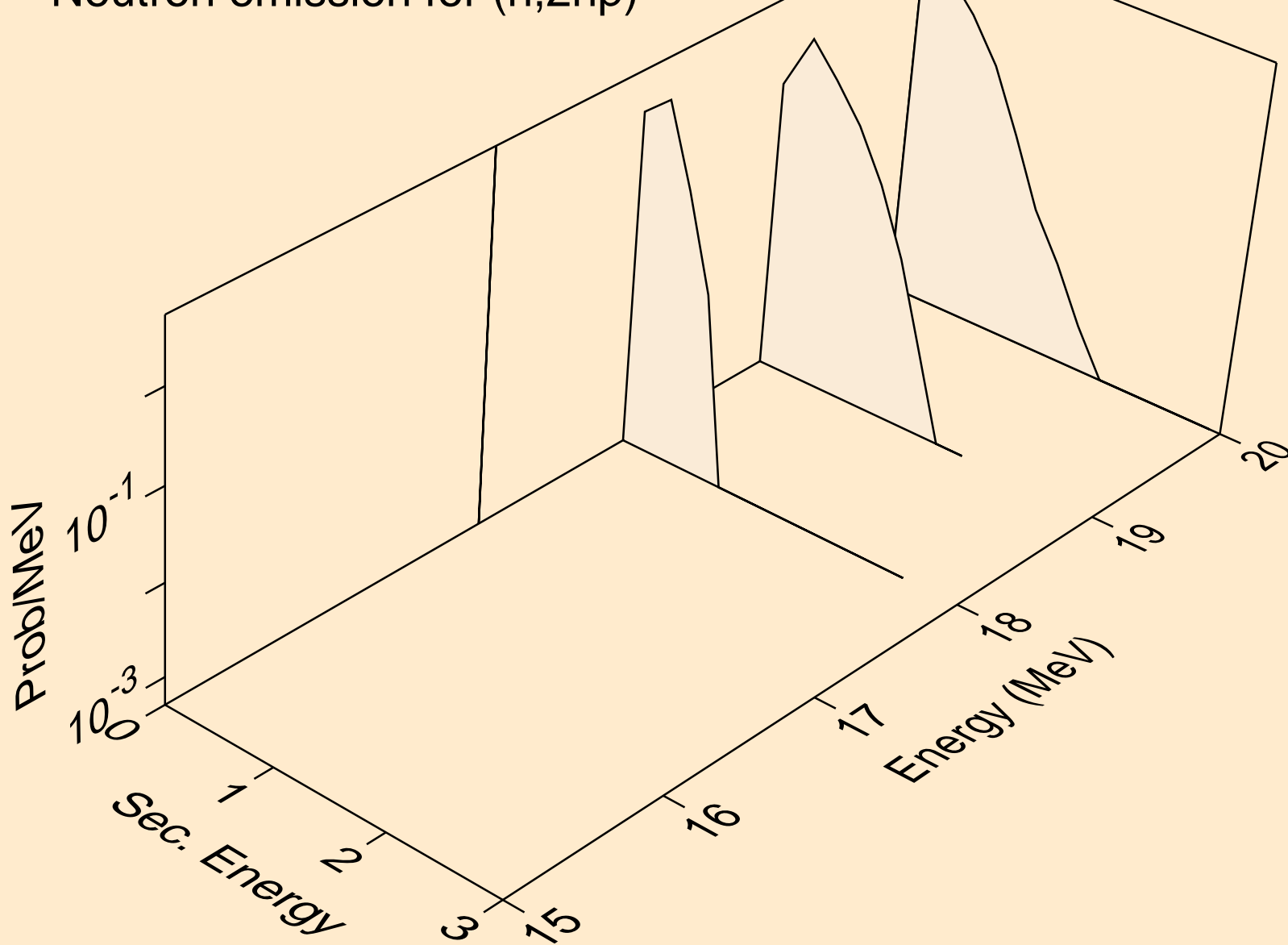
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Neutron emission for (n,2n)a



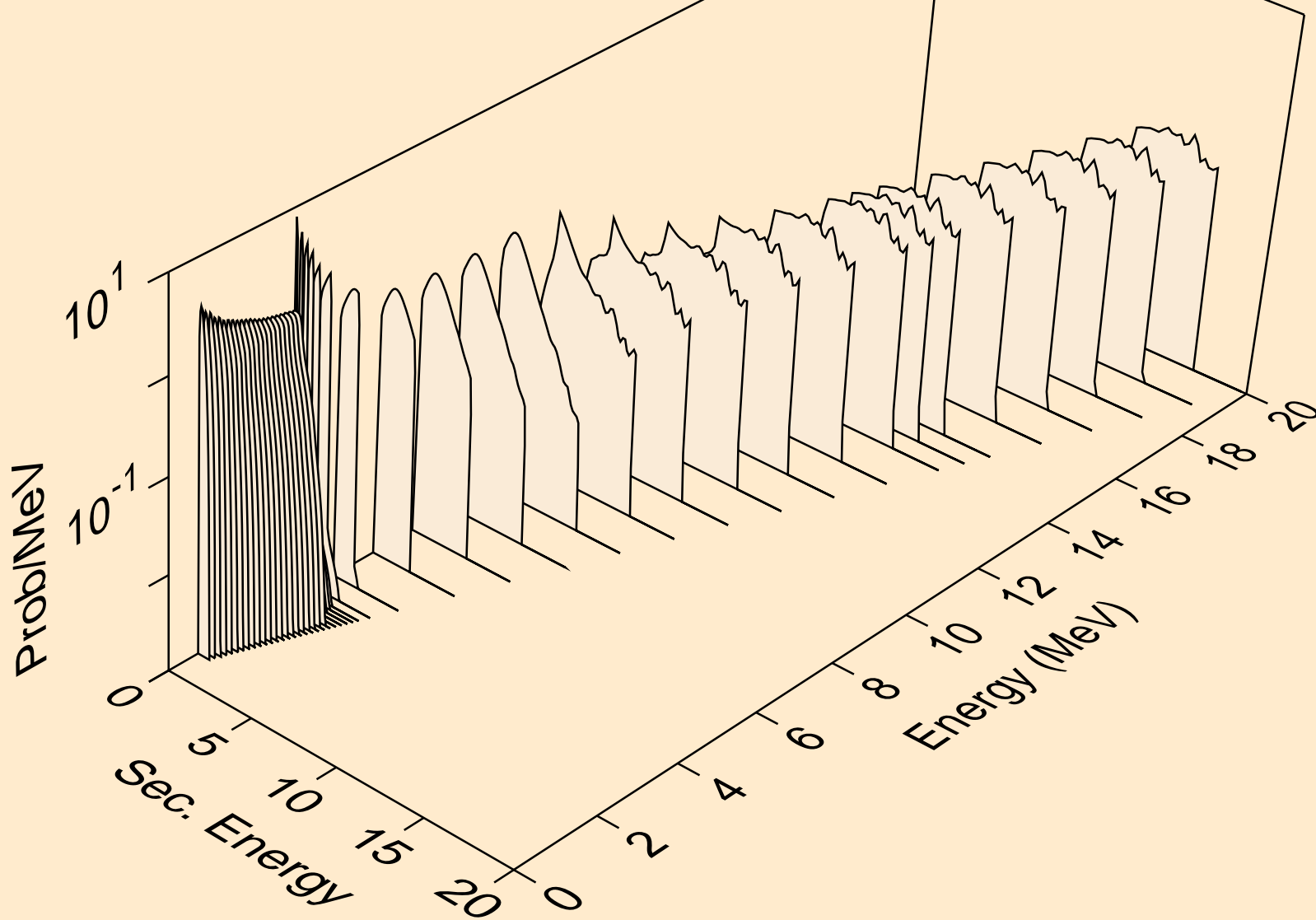
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Neutron emission for (n,n\*)p



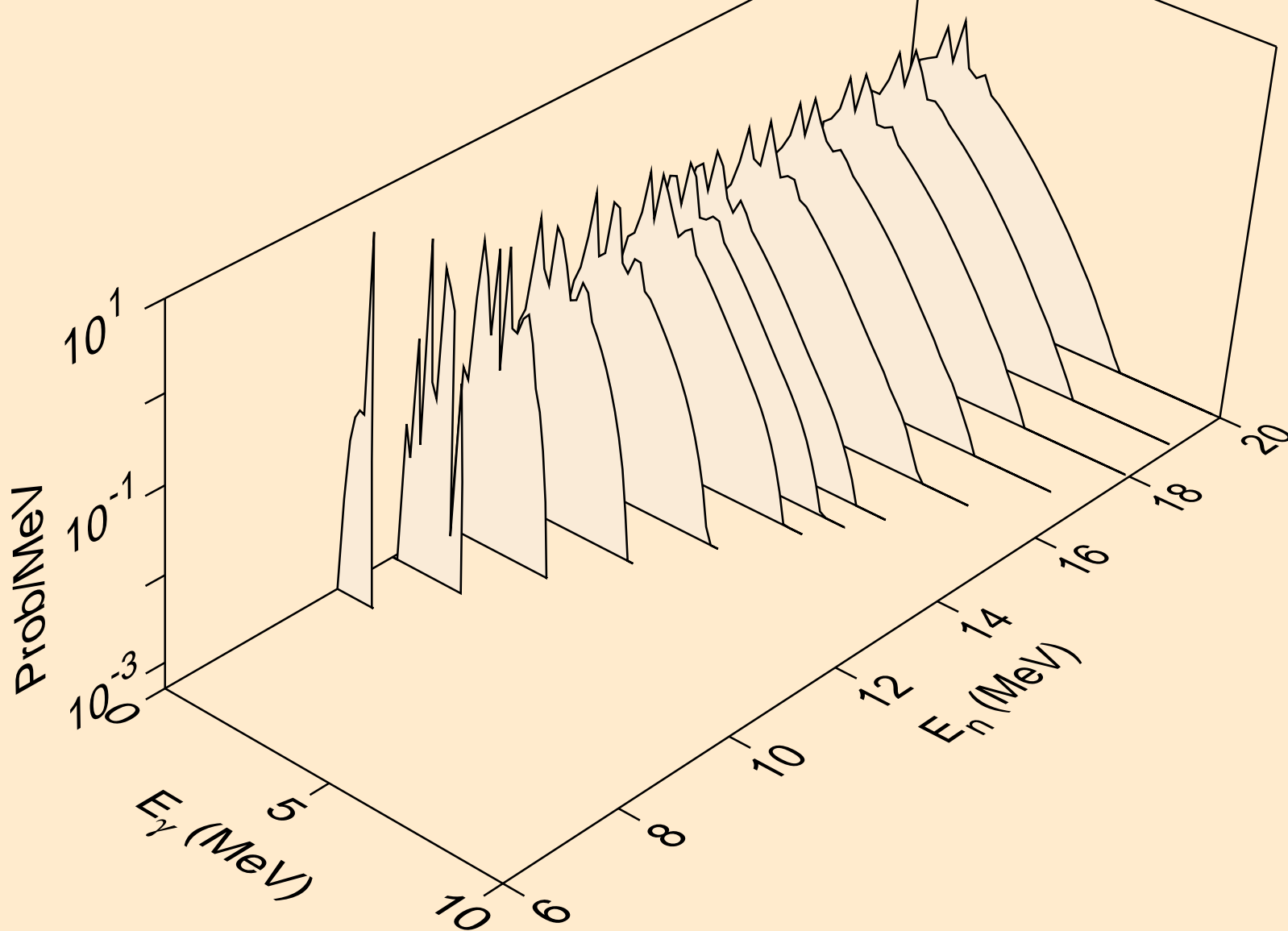
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Neutron emission for (n,2np)



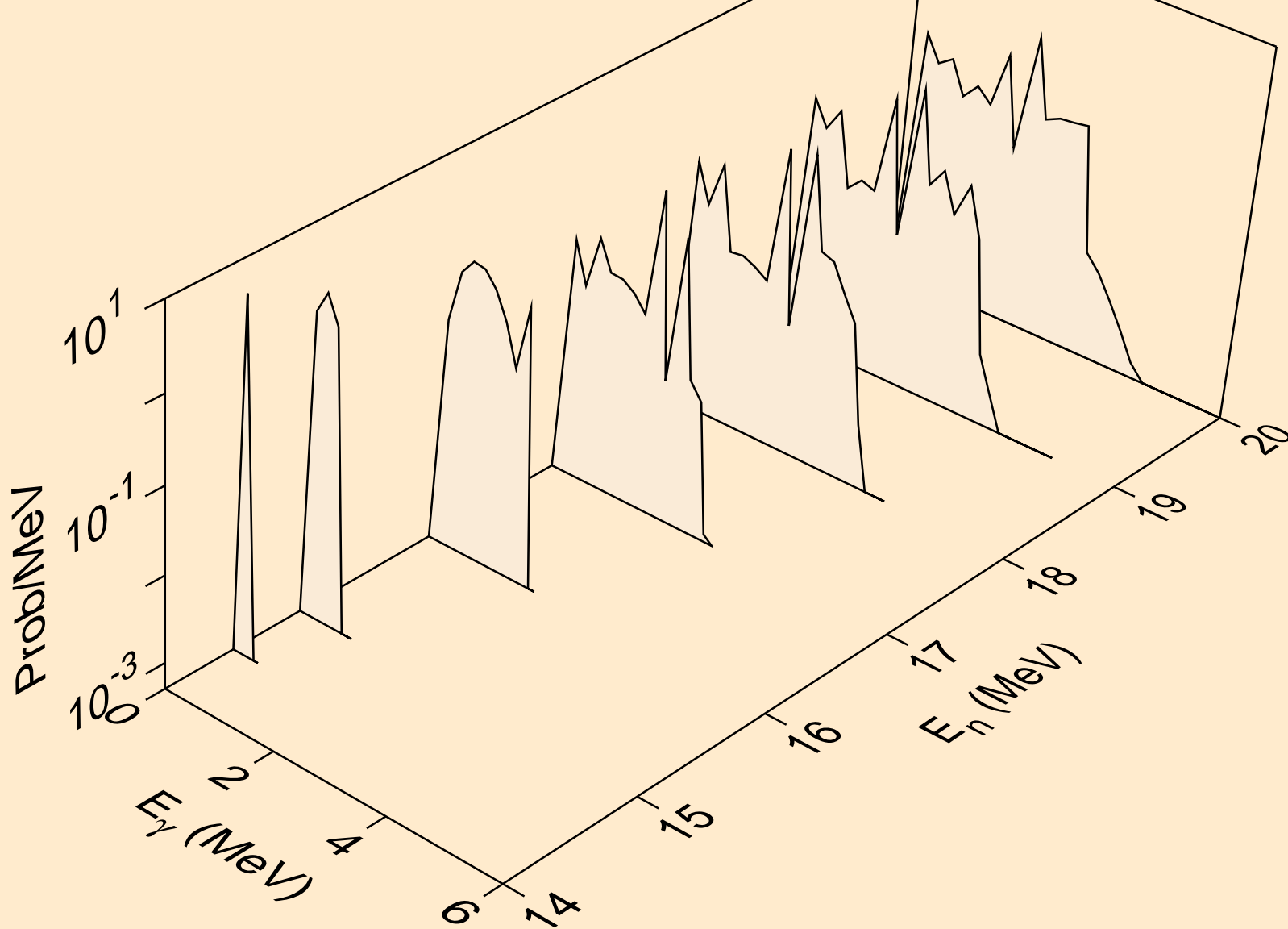
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Neutron emission for (n,n\*c)



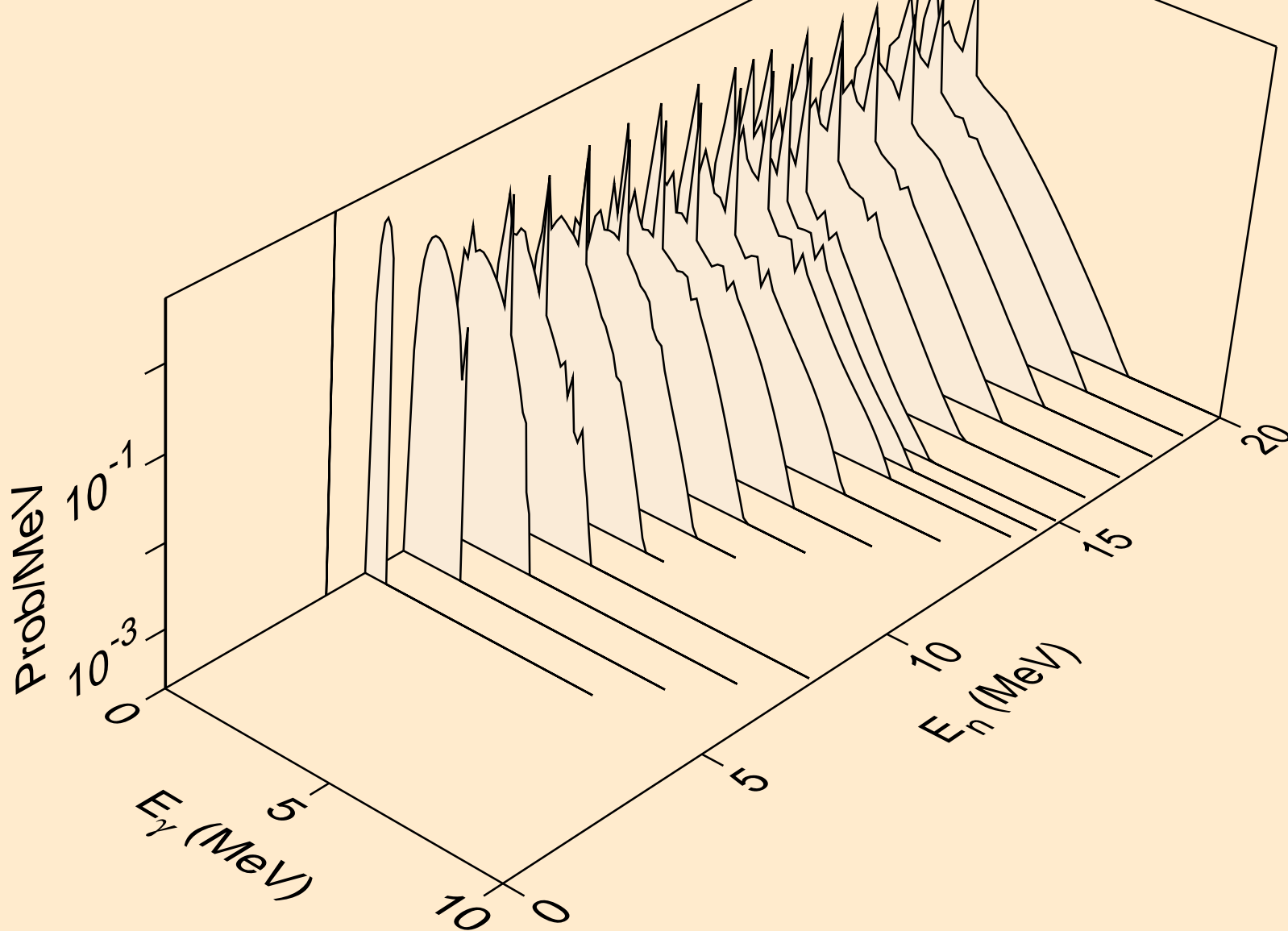
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Photon emission for (n,2n)



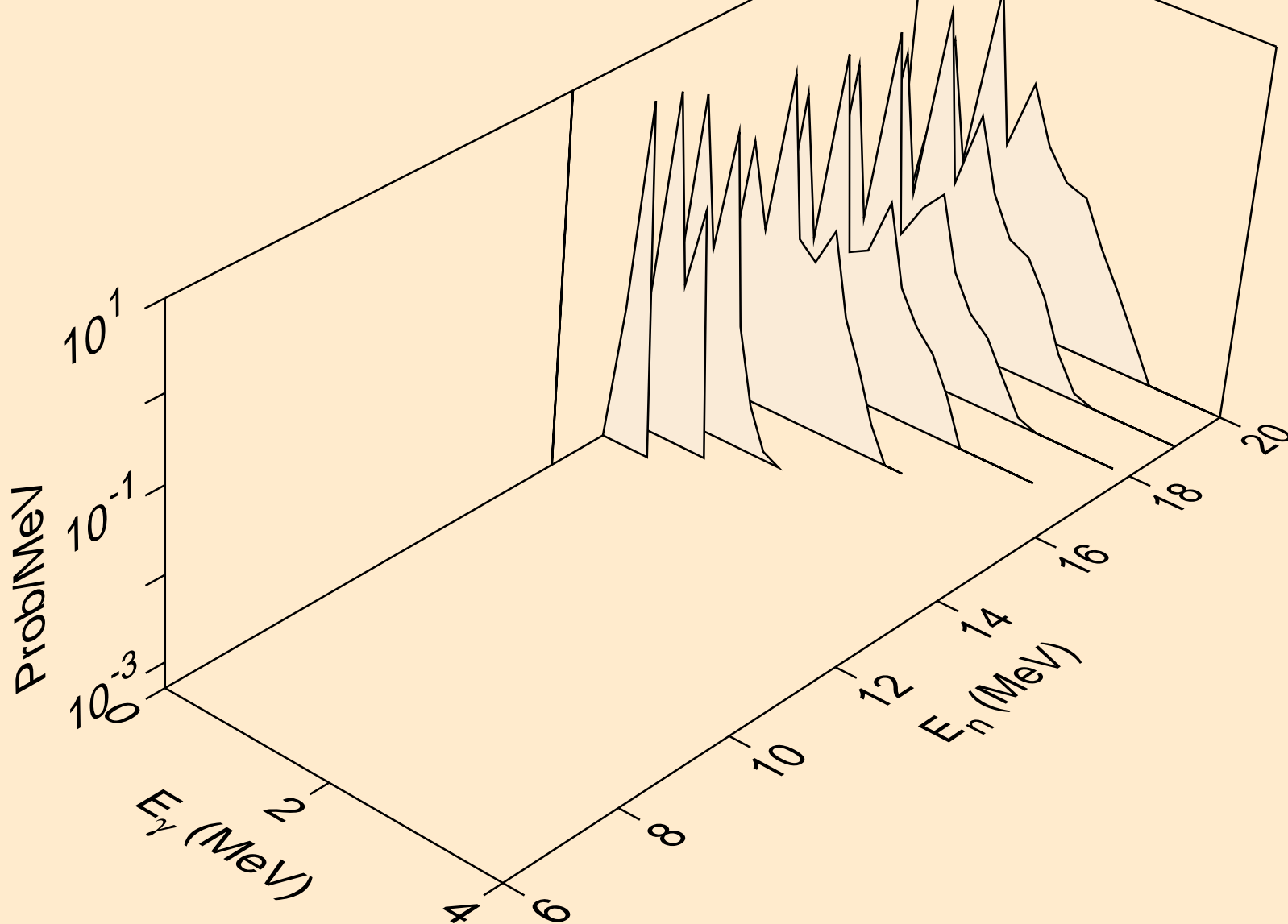
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Photon emission for (n,3n)



MAT=6031 ACE FILE PRODUCED AT NEA WITH NDEC  
Photon emission for (n,n\*)a

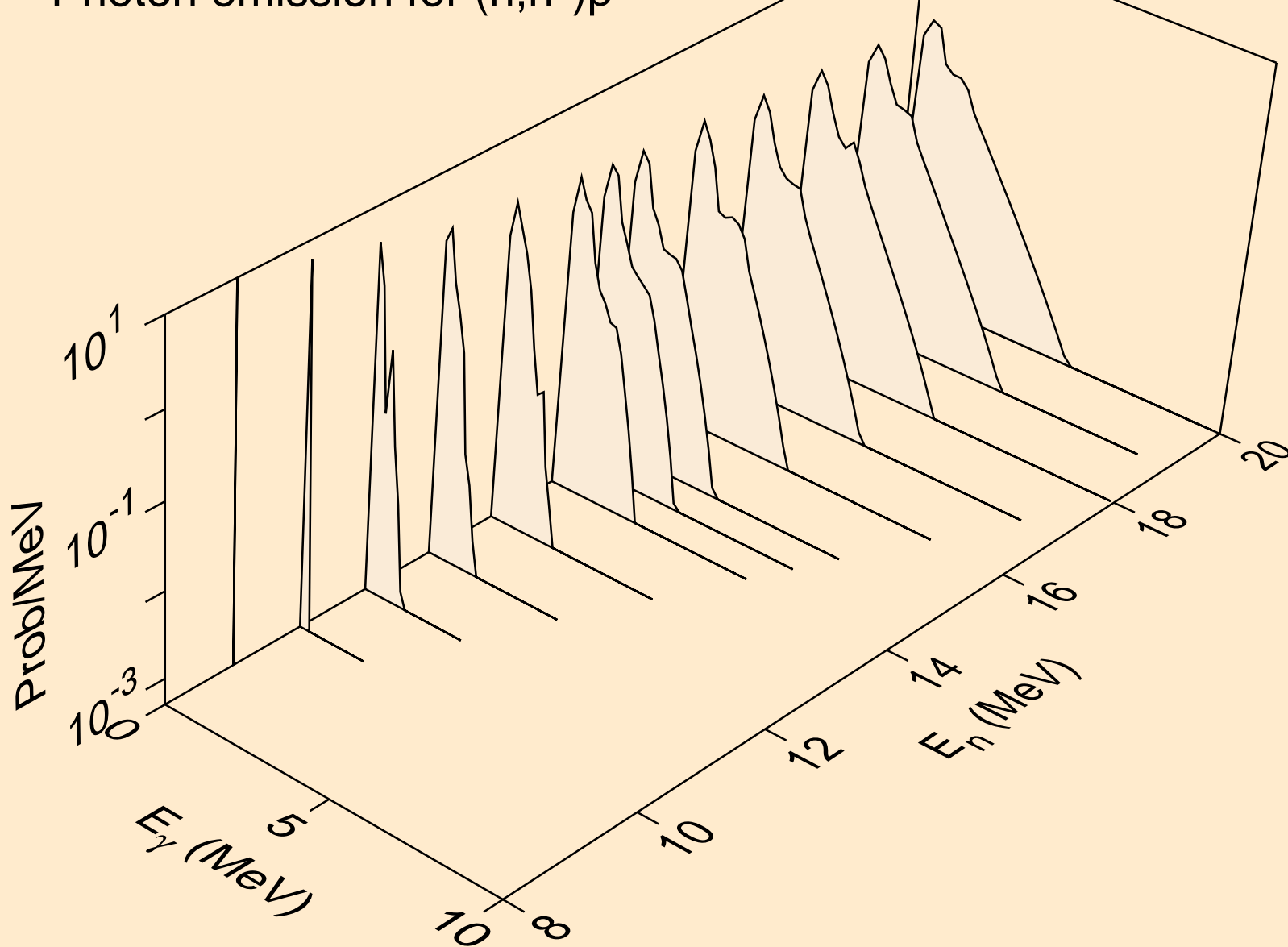


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Photon emission for (n,2n)a

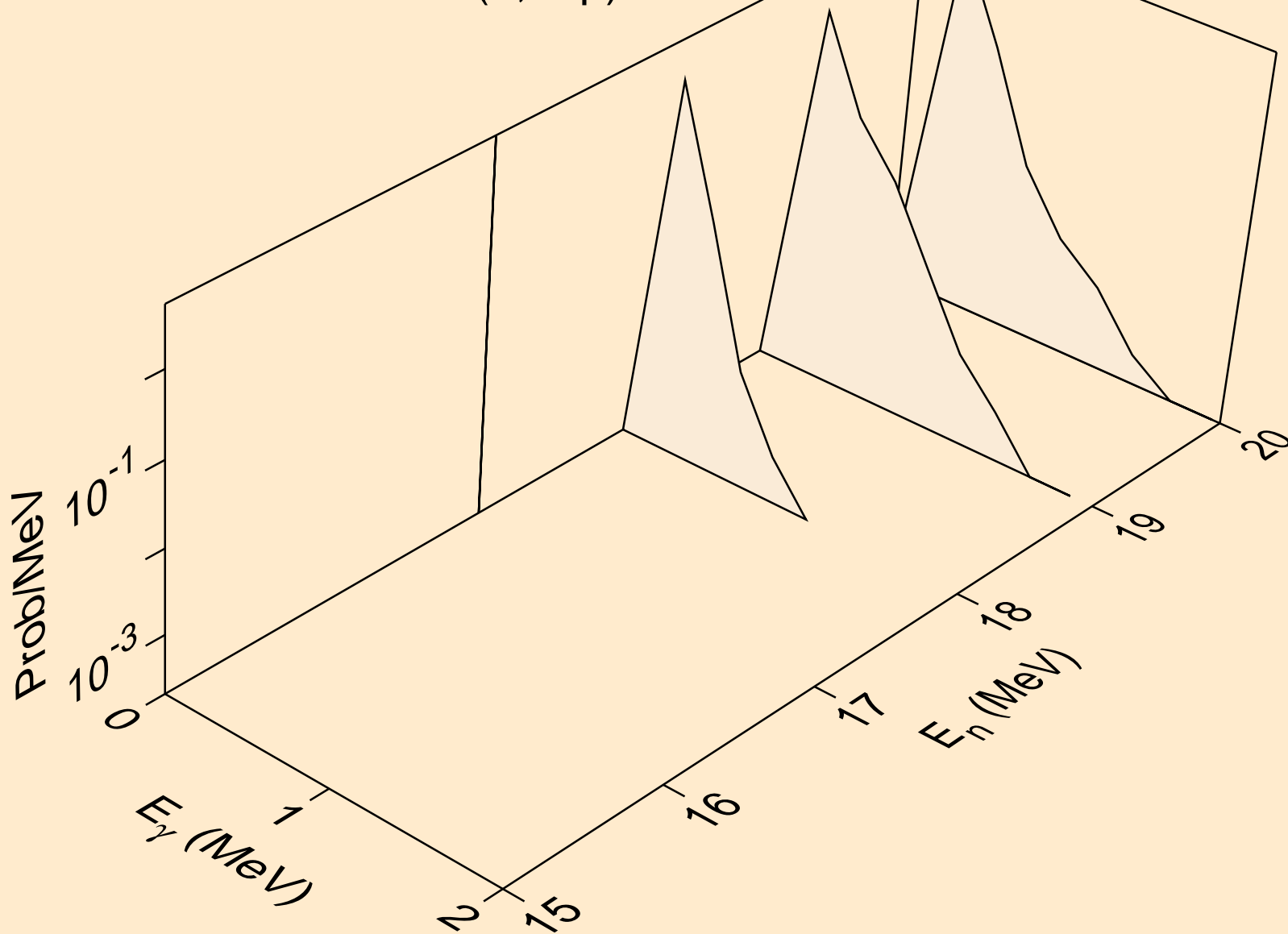




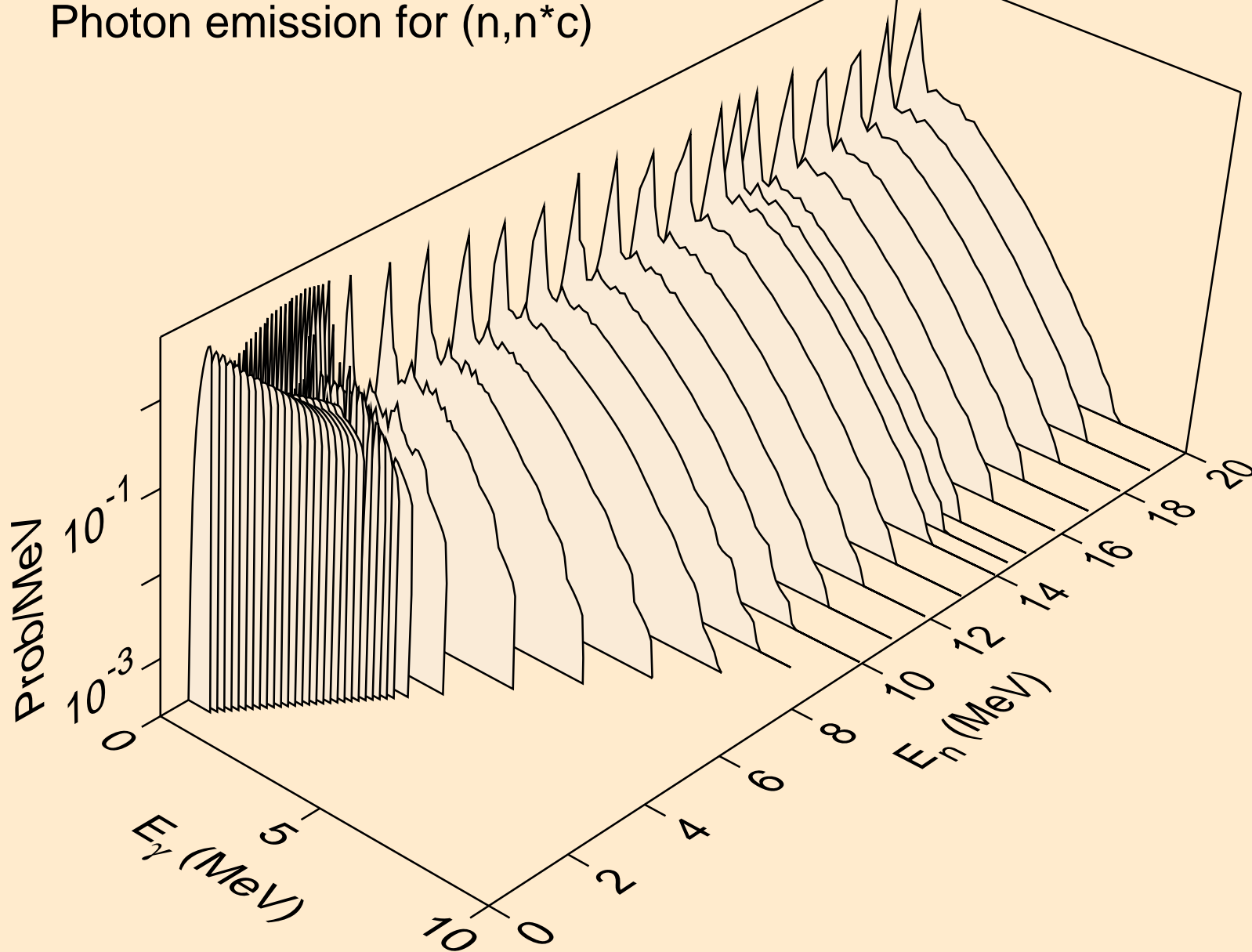
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Photon emission for (n,n\*)p



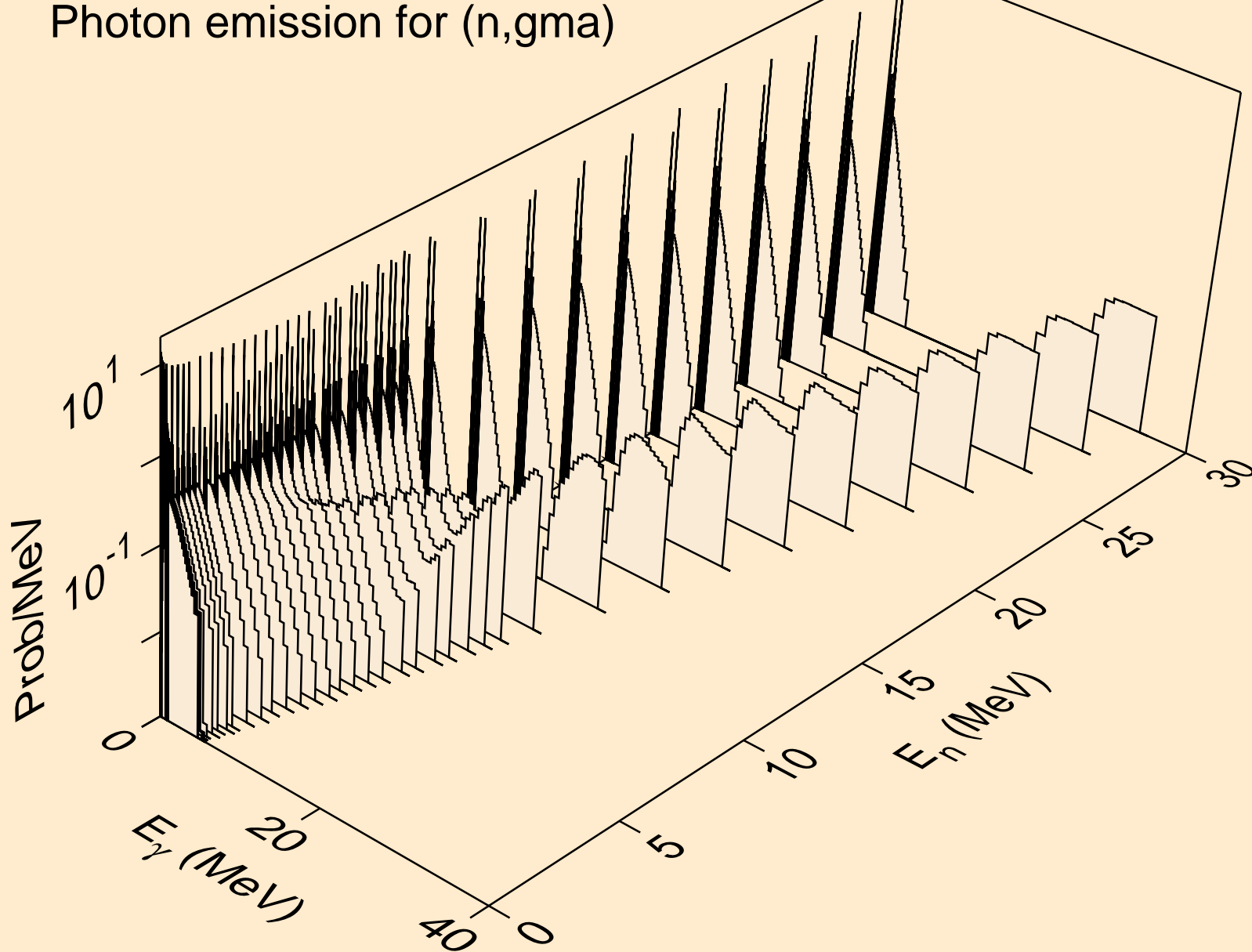
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Photon emission for (n,2np)



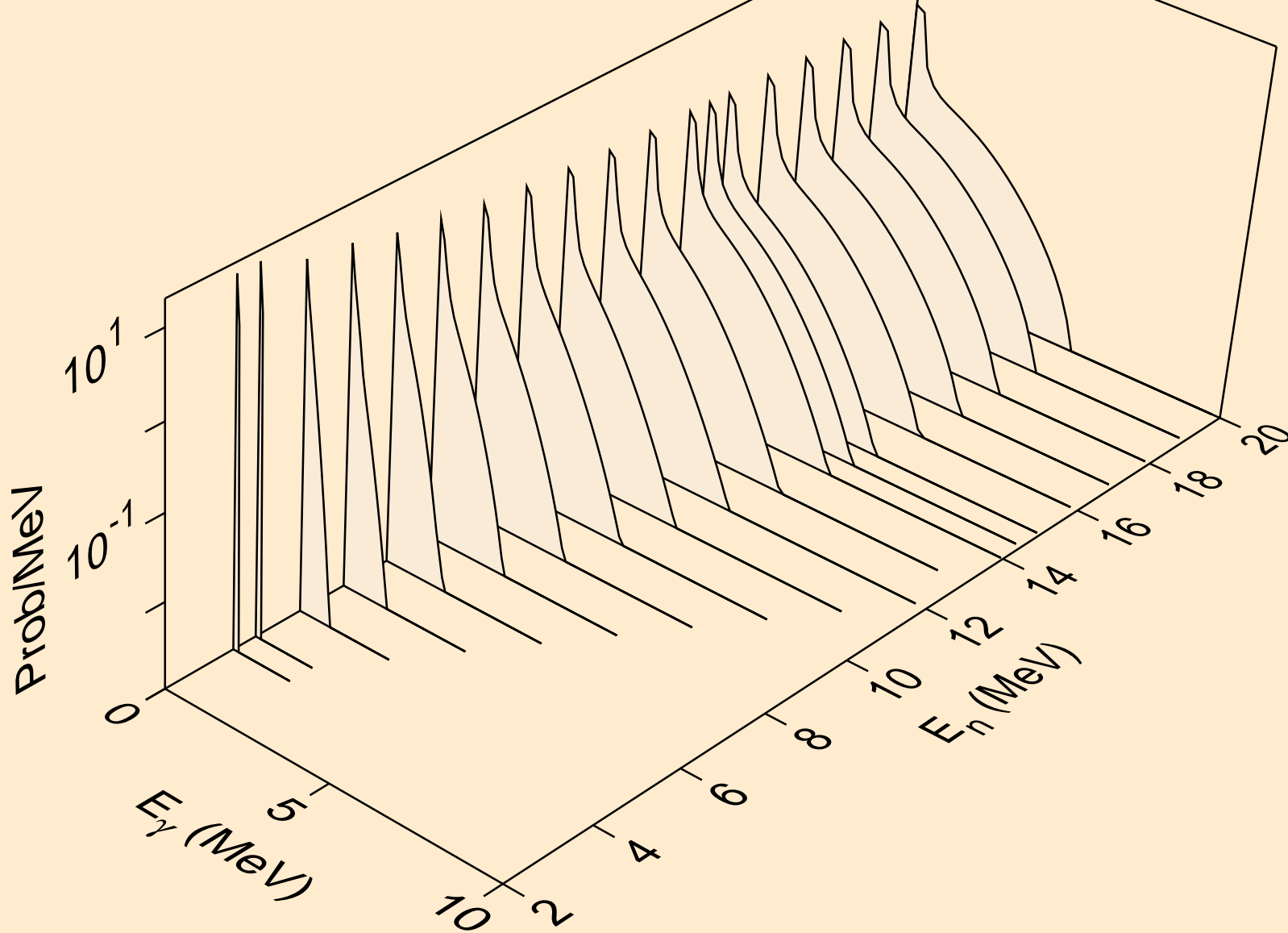
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Photon emission for (n,n\*c)



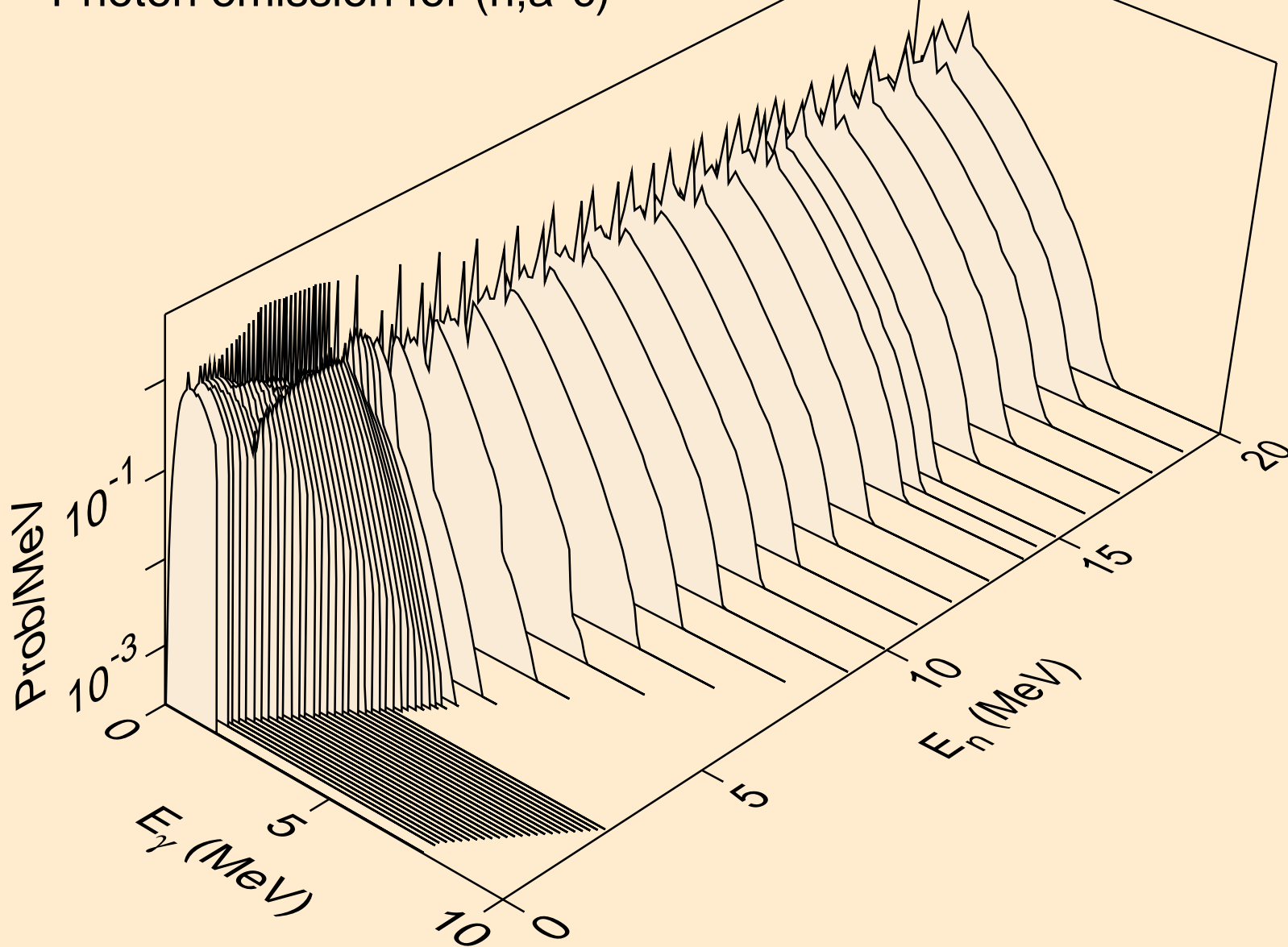
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Photon emission for (n,gma)



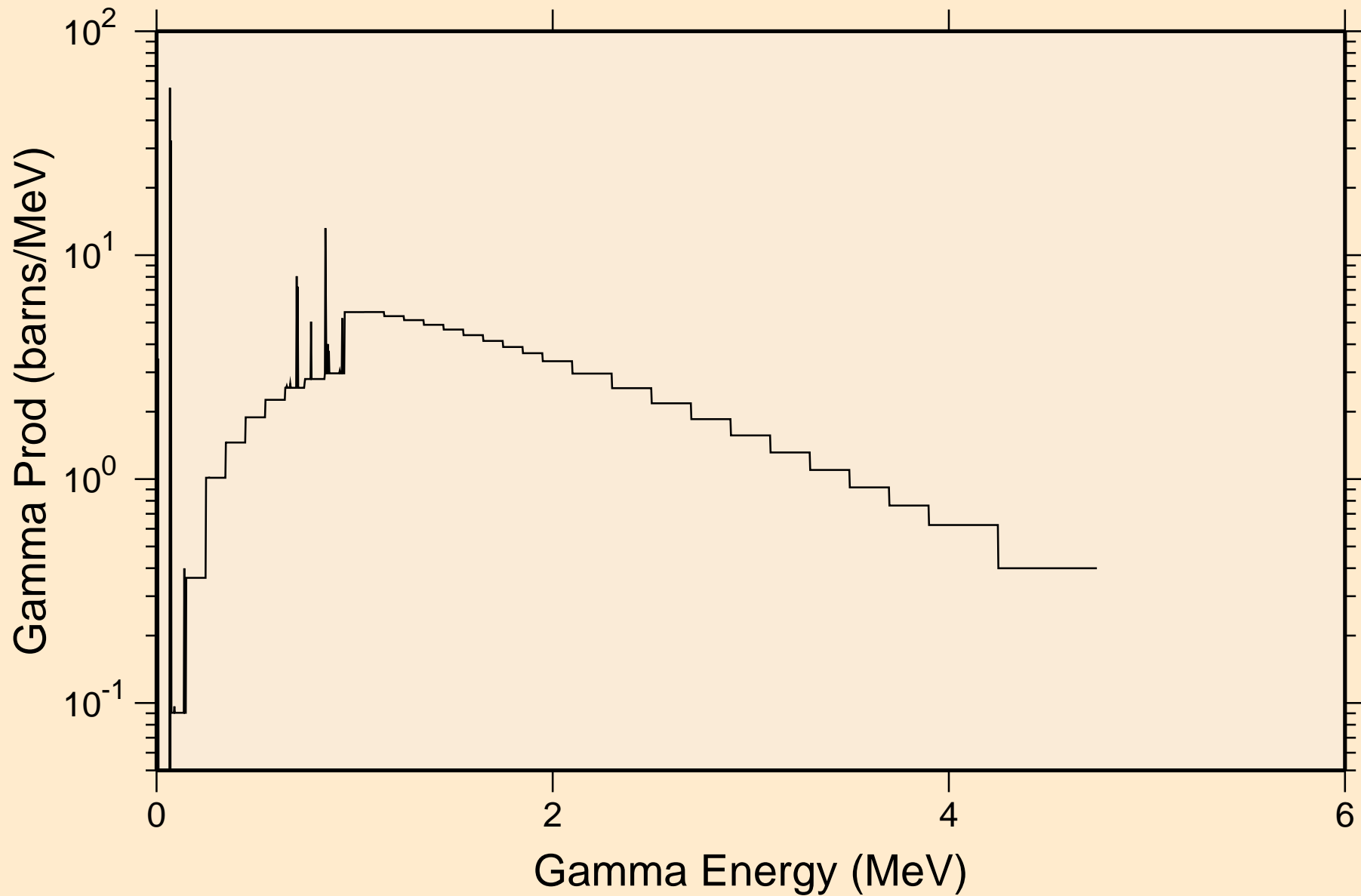
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Photon emission for (n,p\*c)



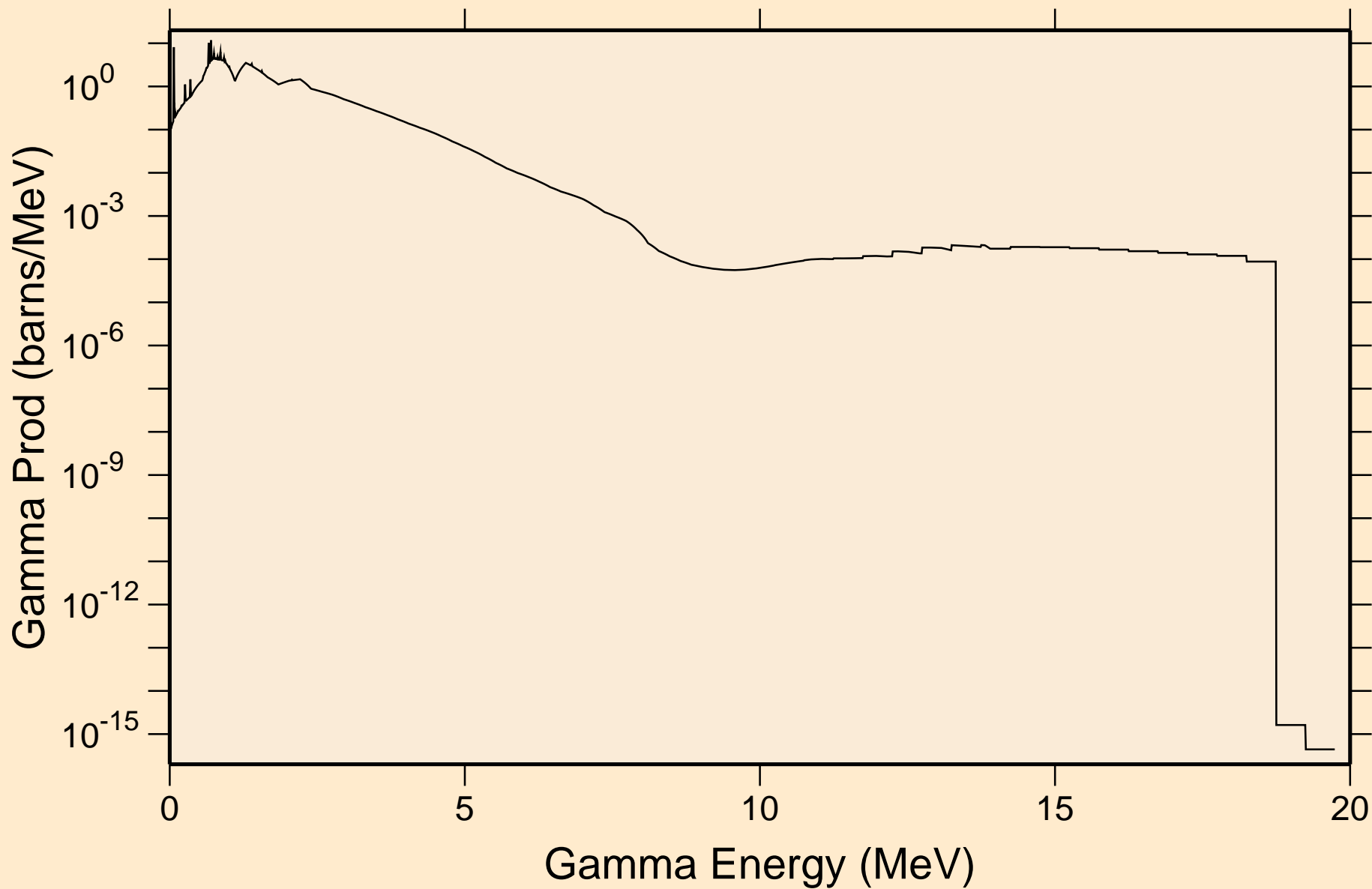
MAT=6031 ACE FILE PRODUCED AT NEA WITH NDEC  
Photon emission for (n,a\*c)



MAT=6031 ACE FILE PRODUCED AT NEA WITH NDEC  
thermal capture photon spectrum

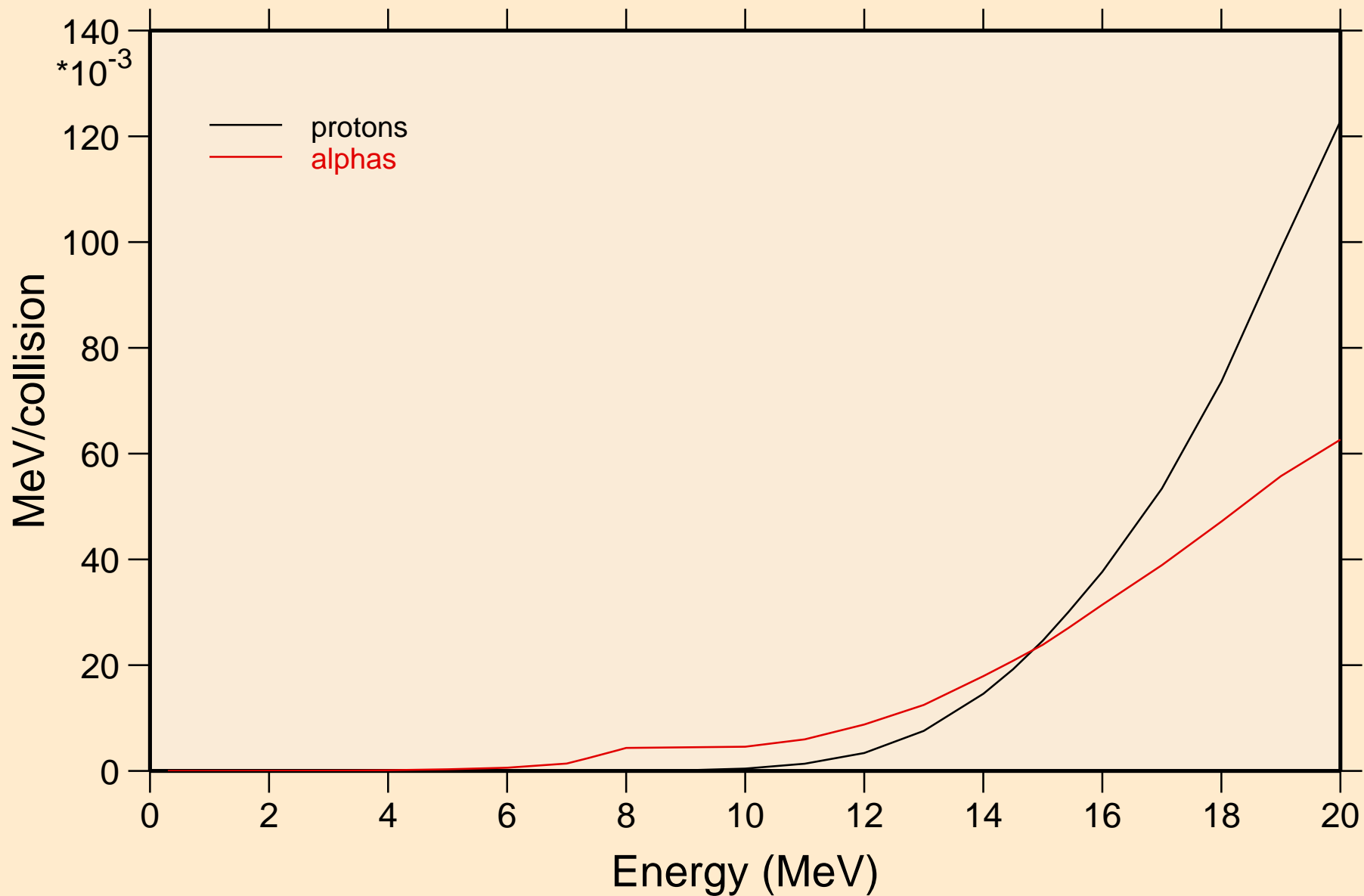


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14 MeV photon spectrum

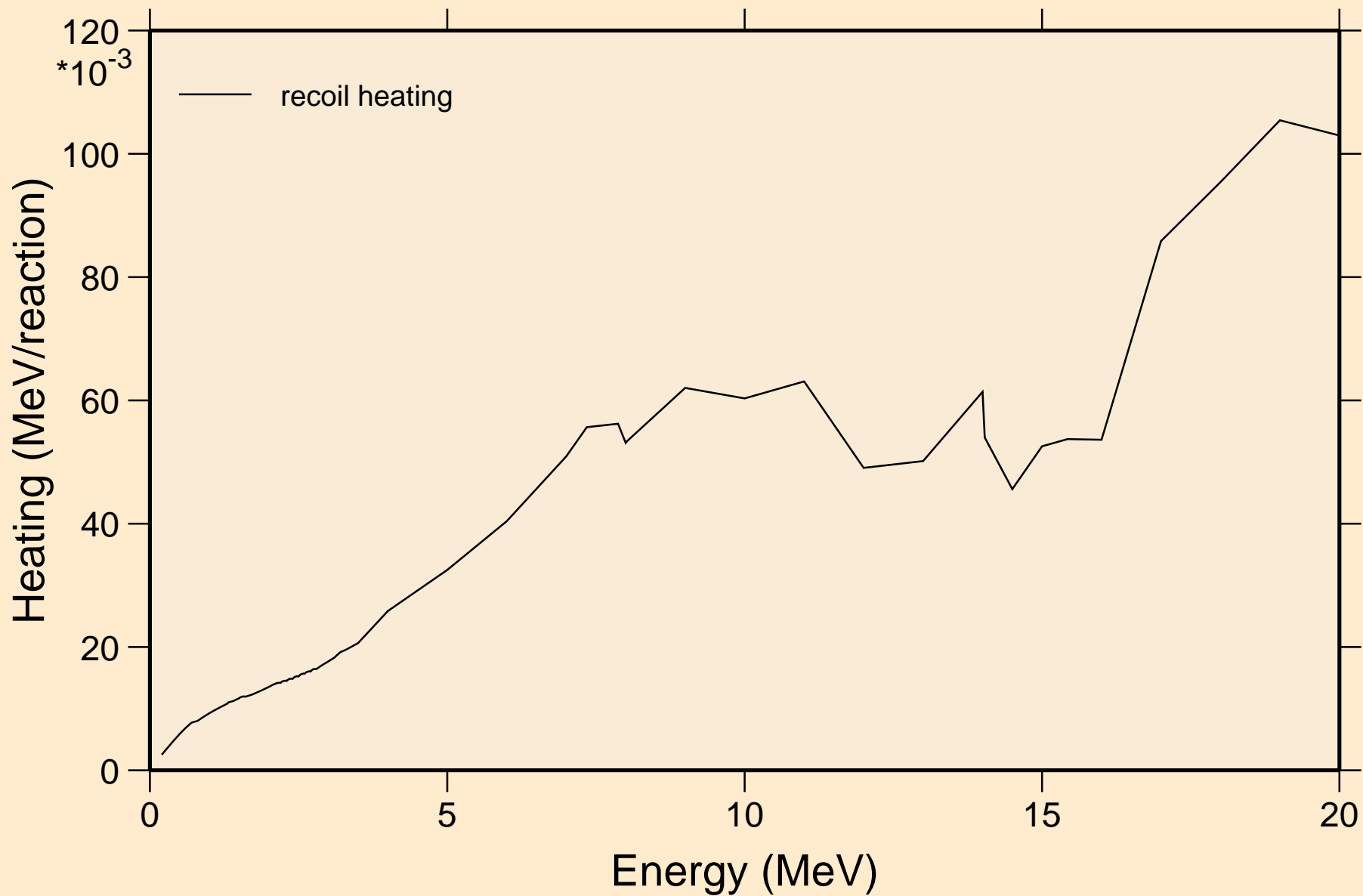




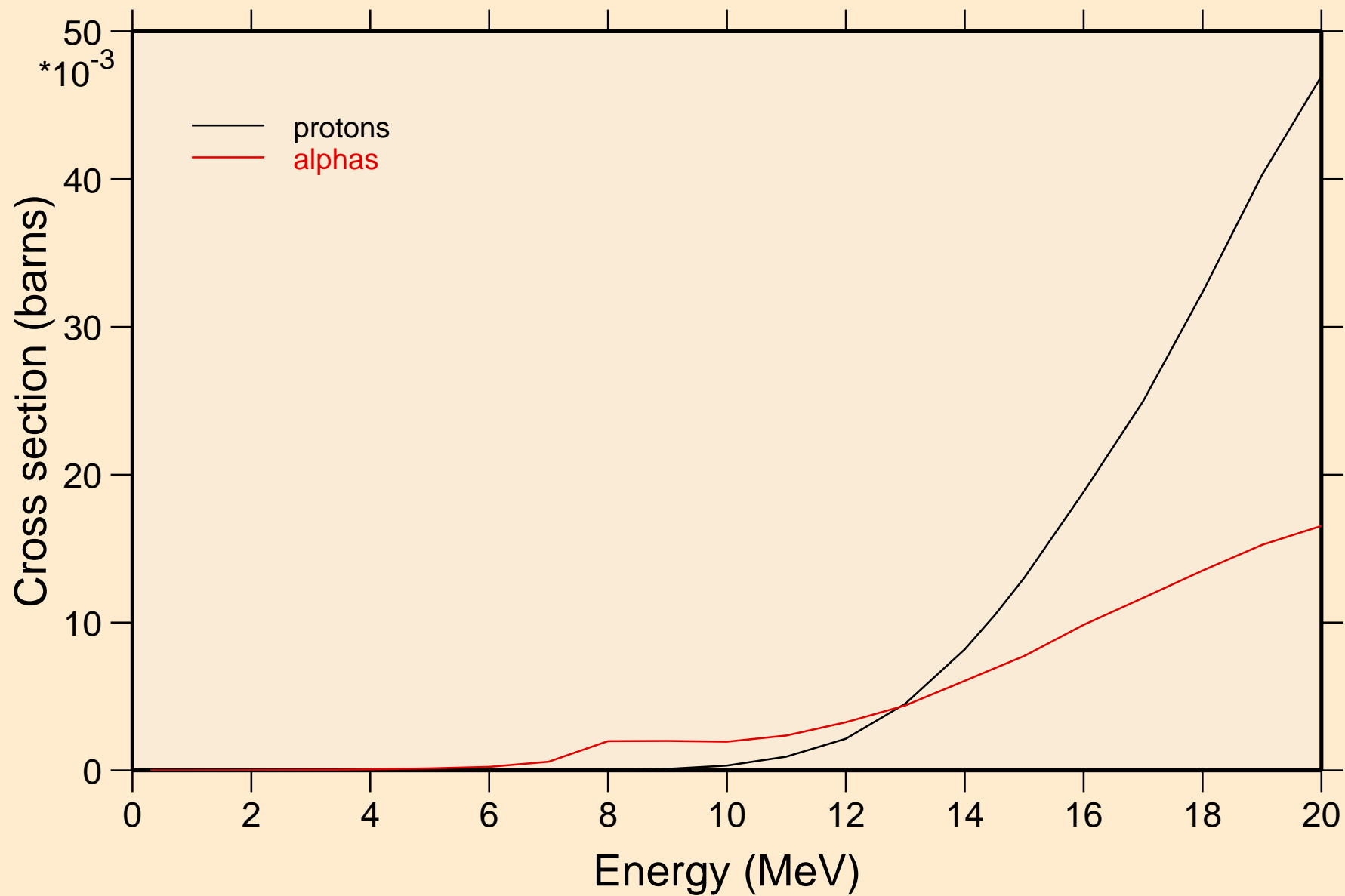
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Particle heating contributions



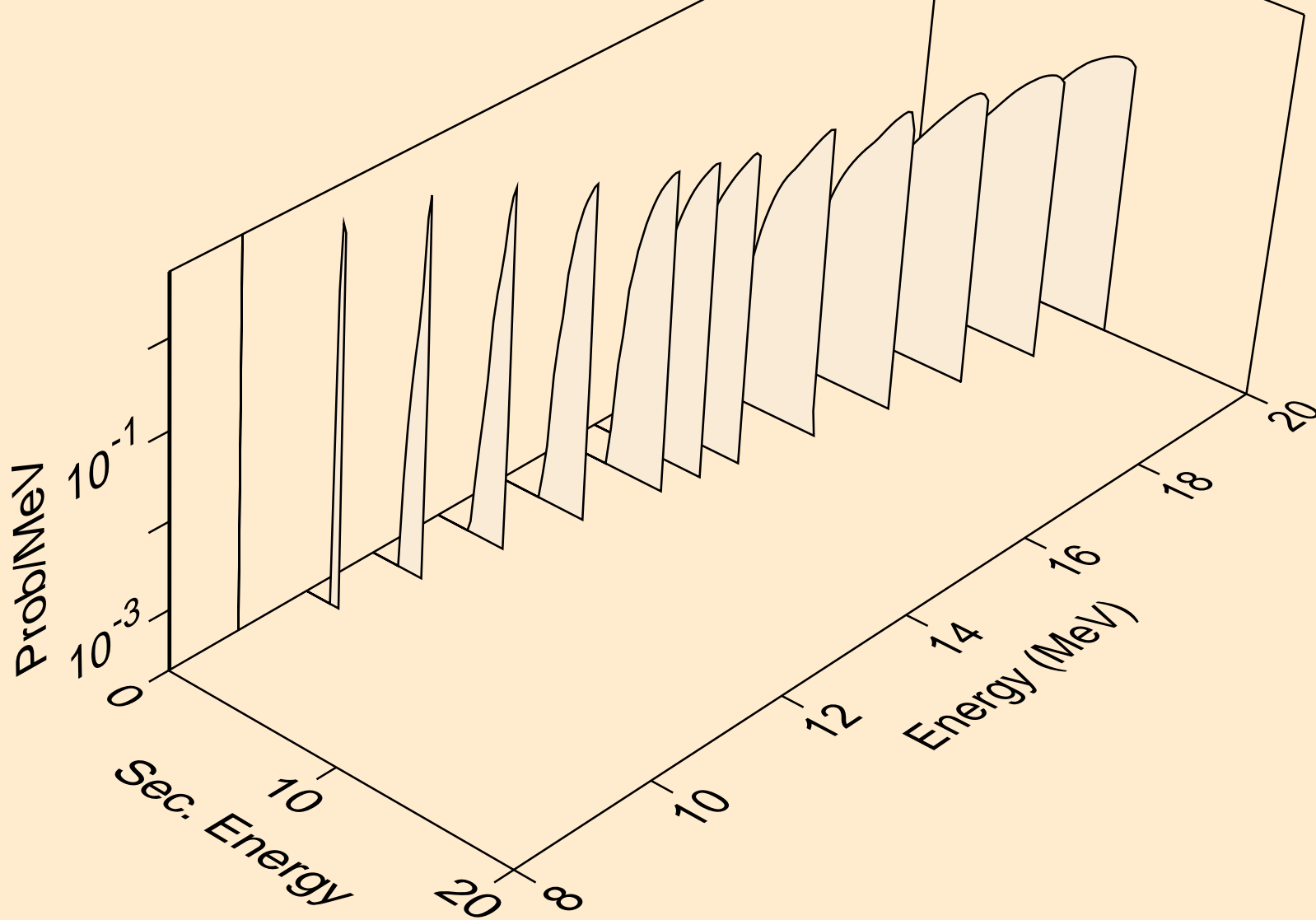
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Recoil Heating



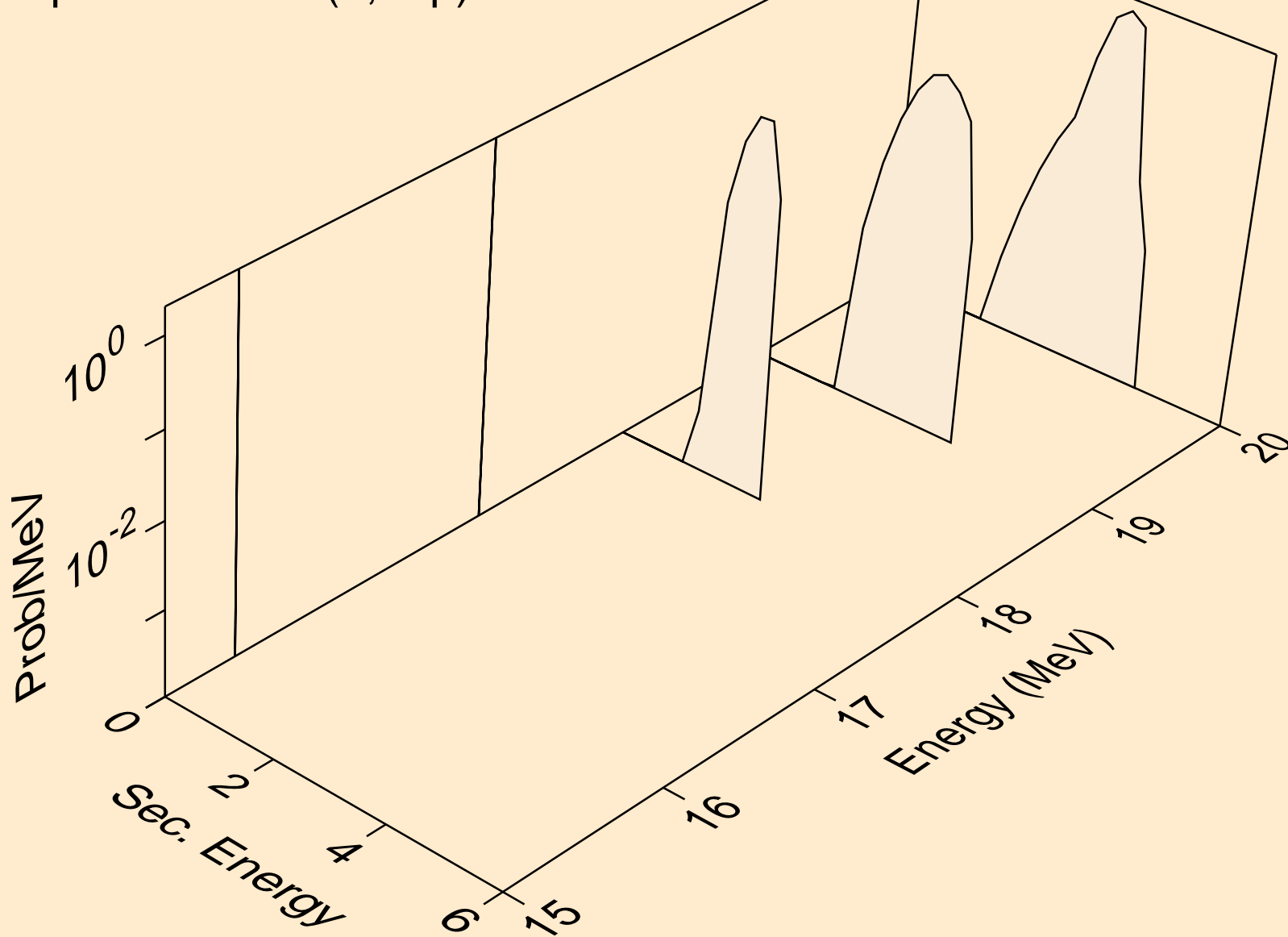
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Particle production cross sections



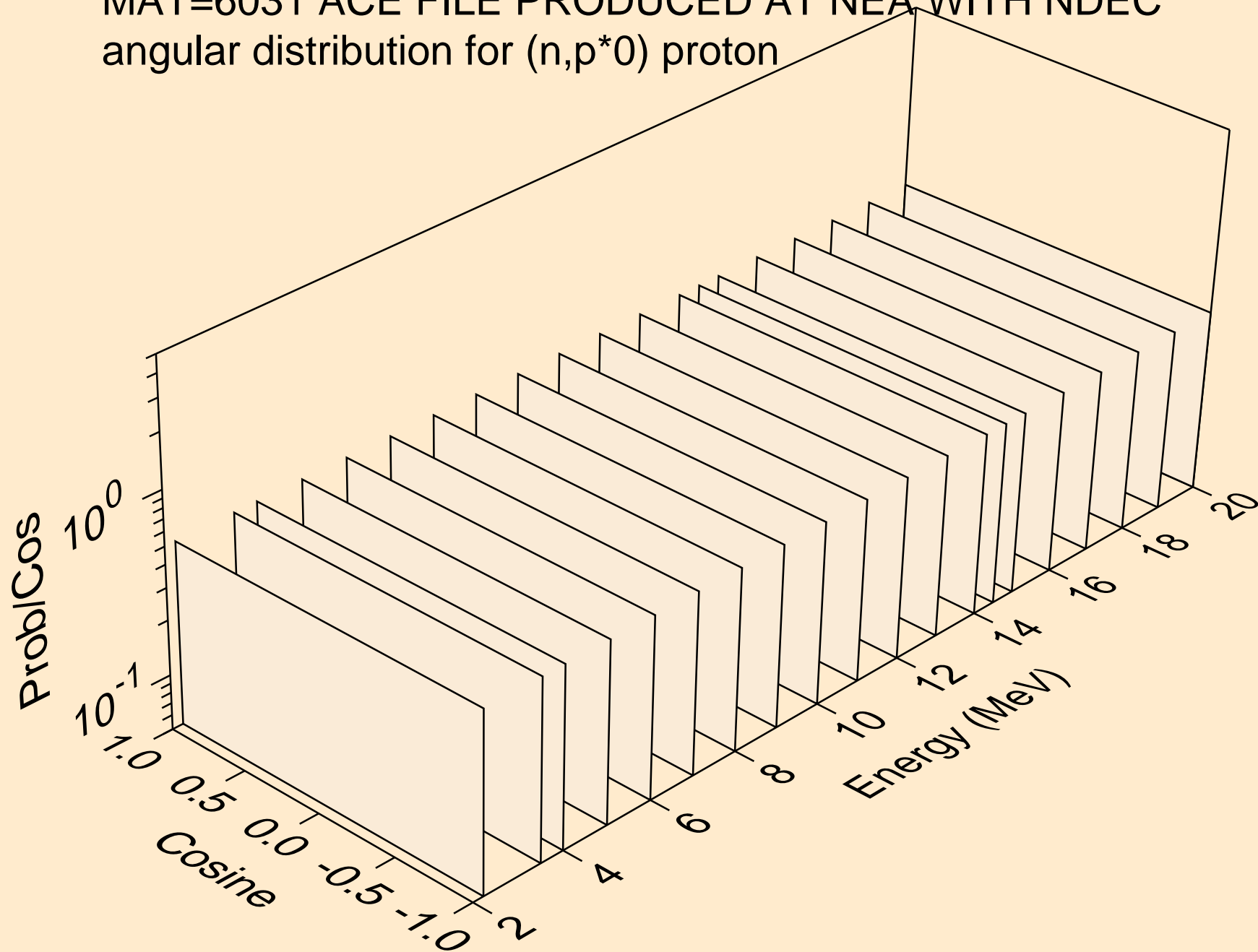
MAT=6031 ACE FILE PRODUCED AT NEA WITH NDEC  
protons from (n,n\*)p



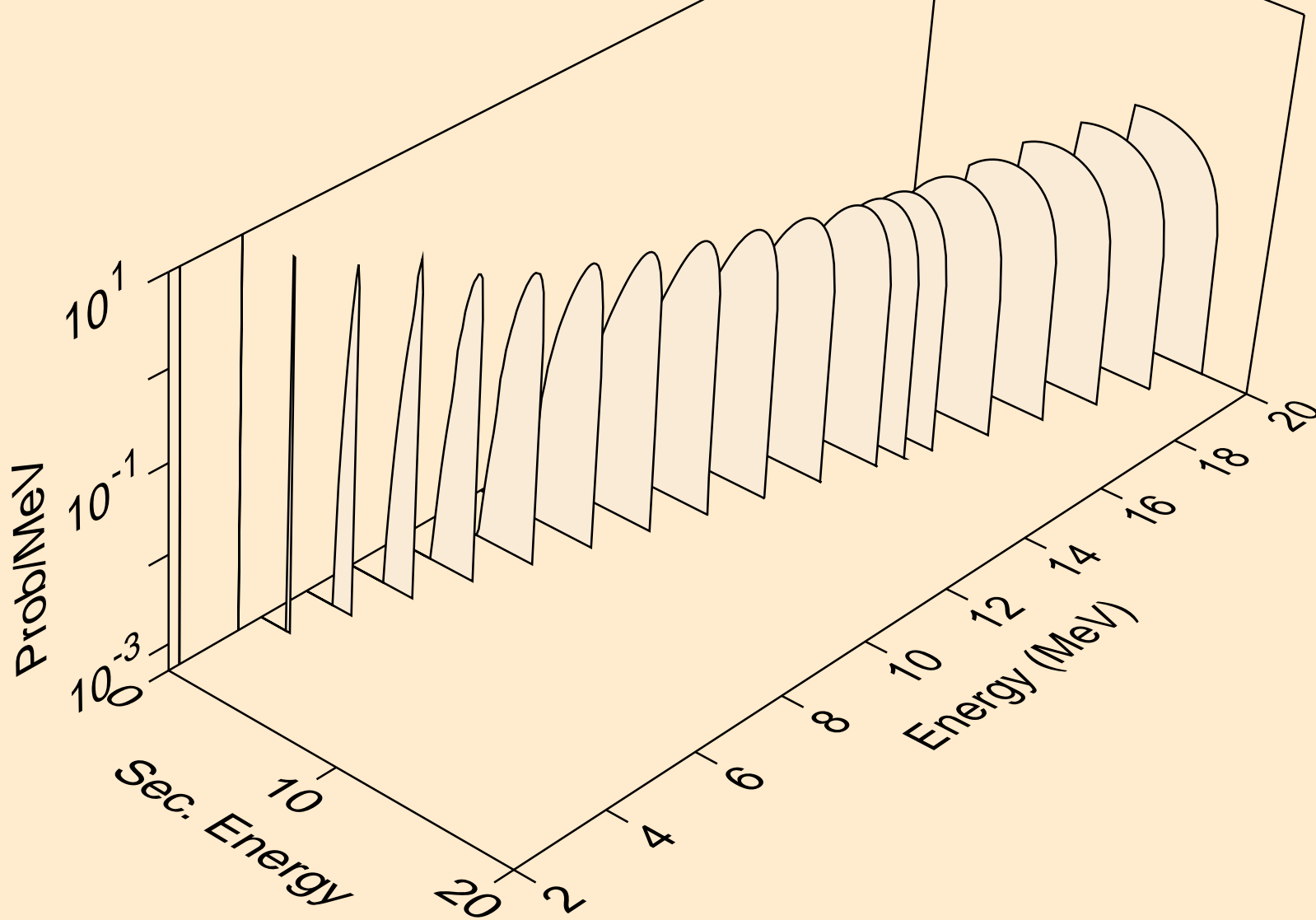
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protons from (n,2np)



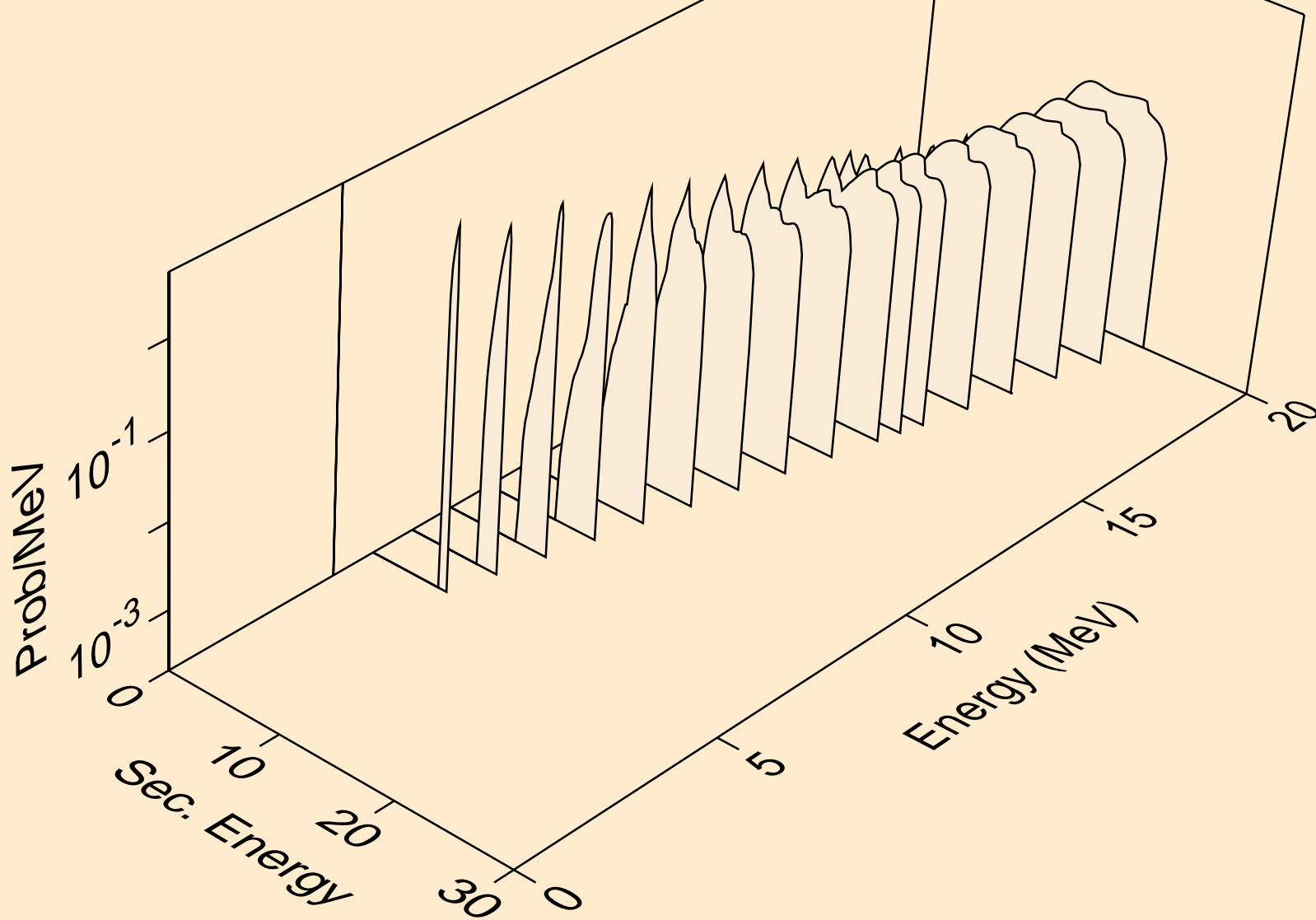
MAT=6031 ACE FILE PRODUCED AT NEA WITH NDEC  
angular distribution for (n,p\*0) proton



MAT=6031 ACE FILE PRODUCED AT NEA WITH NDEC  
protons from (n,p\*c)

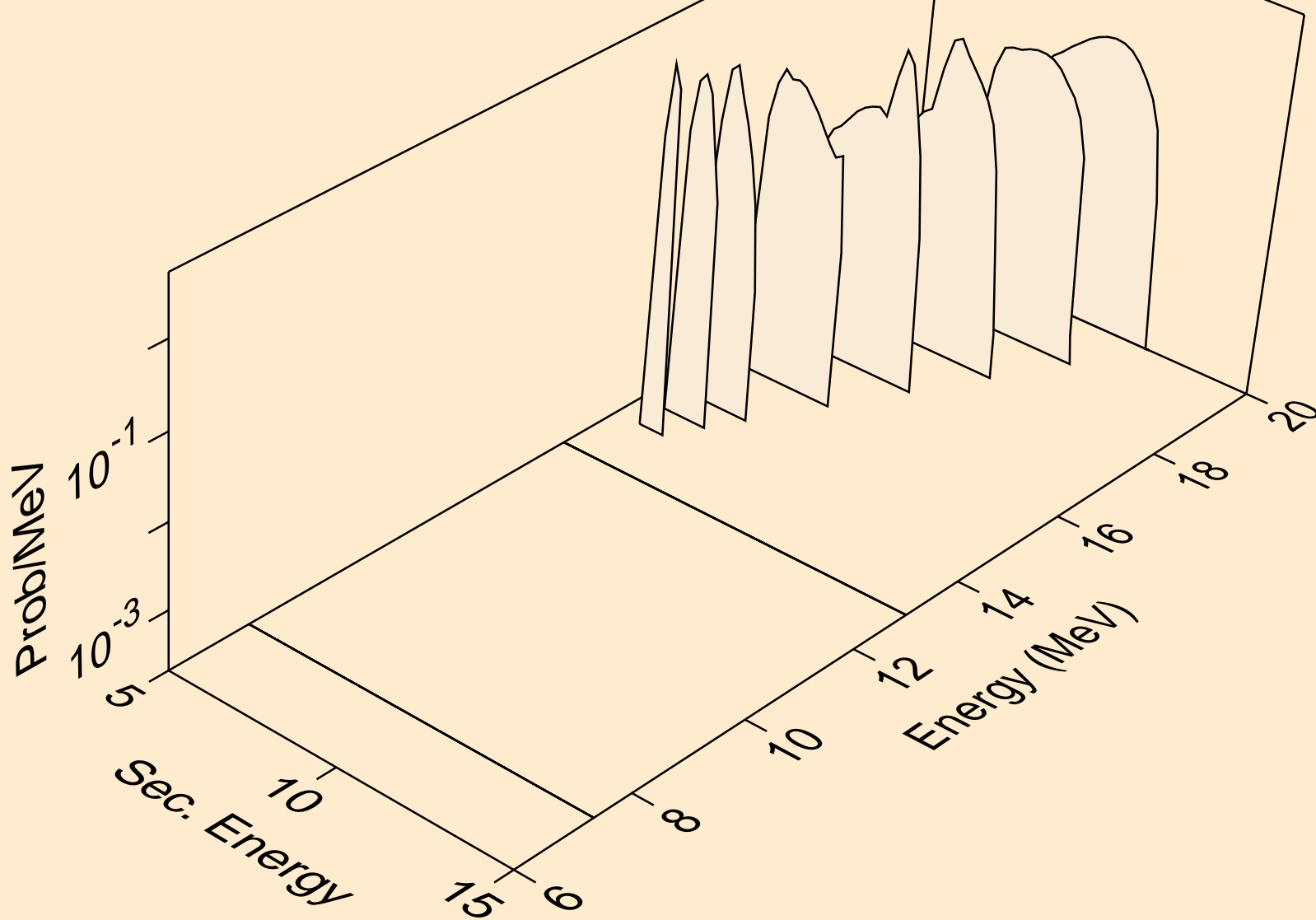


MAT=6031 ACE FILE PRODUCED AT NEA WITH NDEC  
alphas from (n,n\*)a

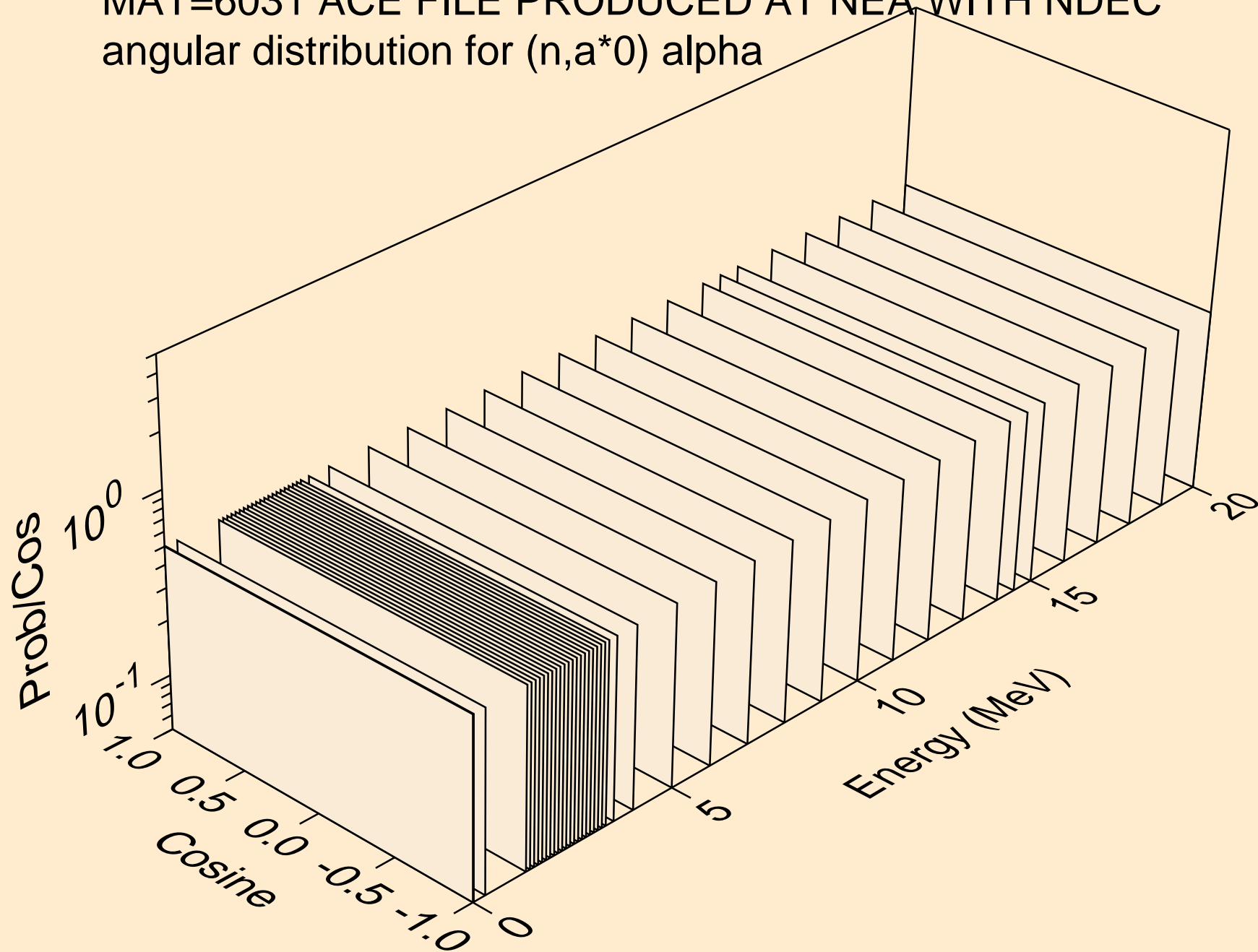




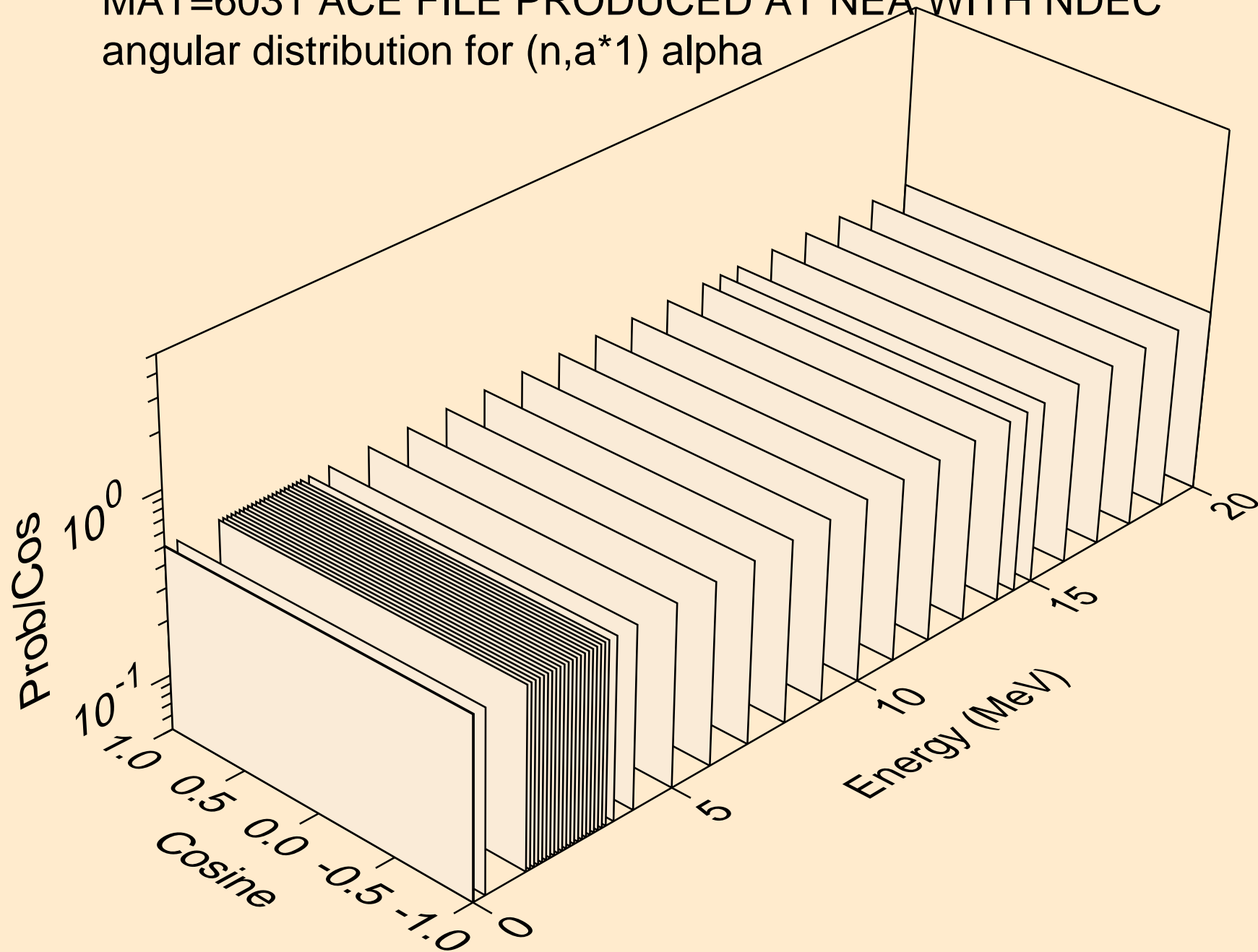
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alphas from (n,2n)a



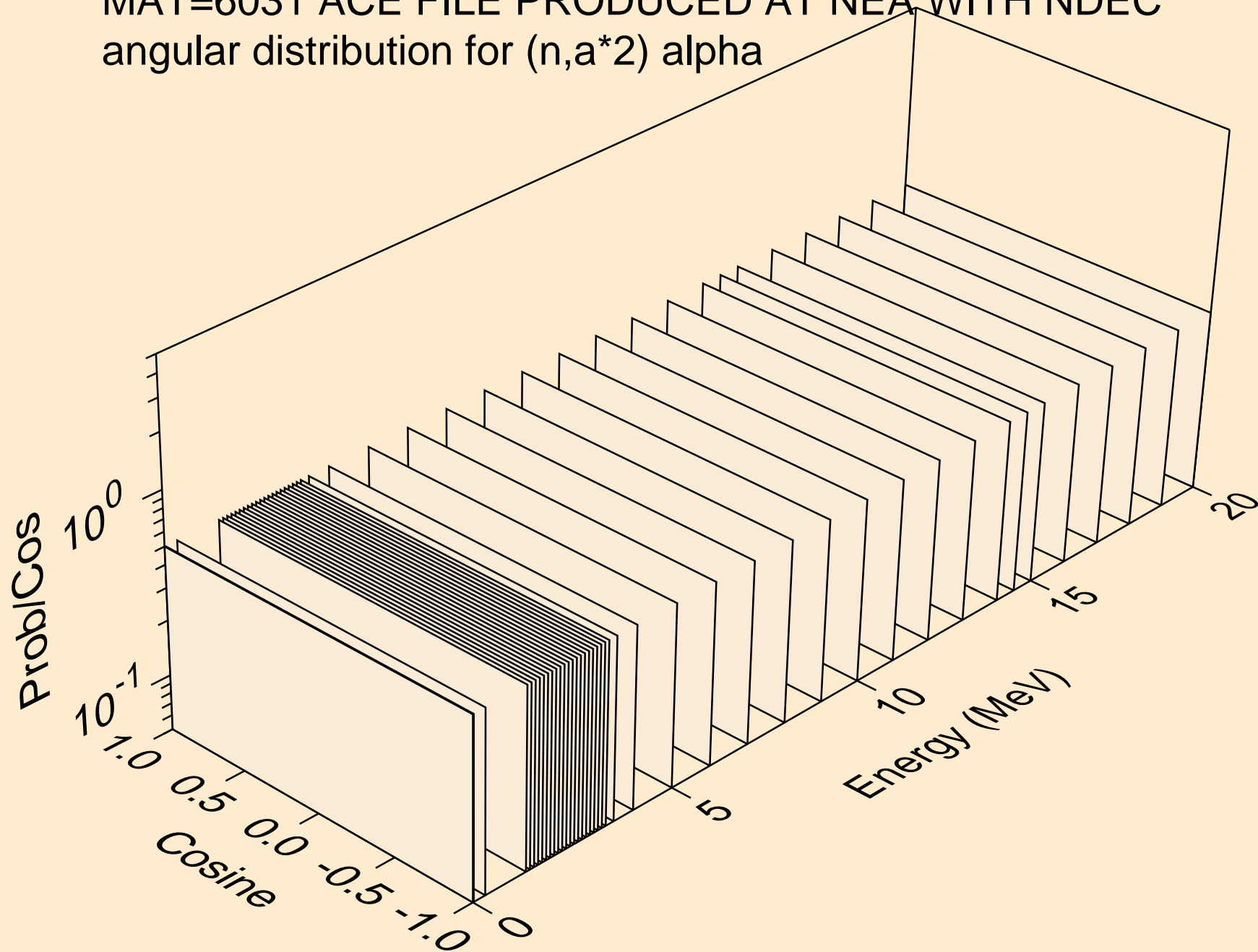
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angular distribution for (n,a\*0) alpha



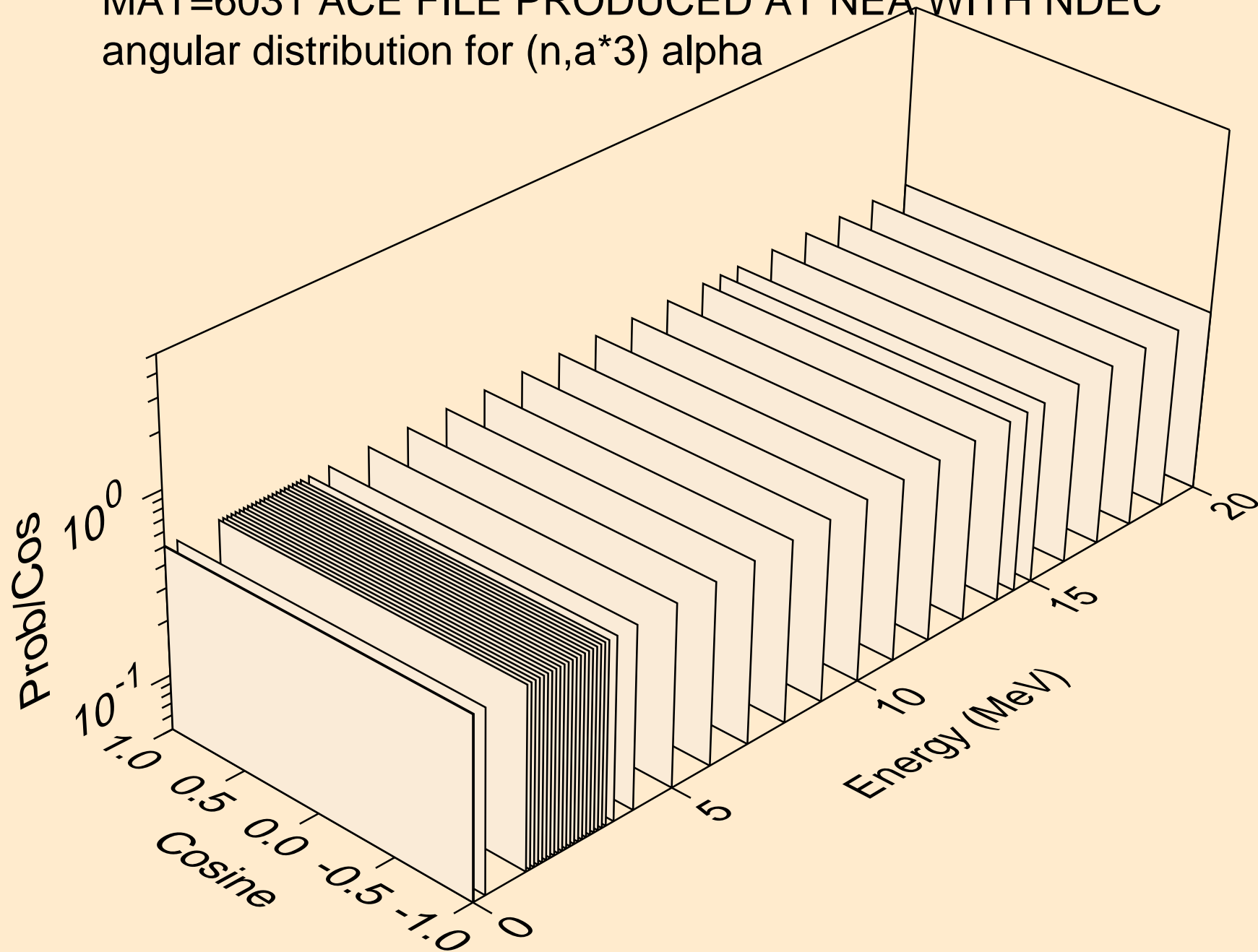
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angular distribution for (n,a\*1) alpha



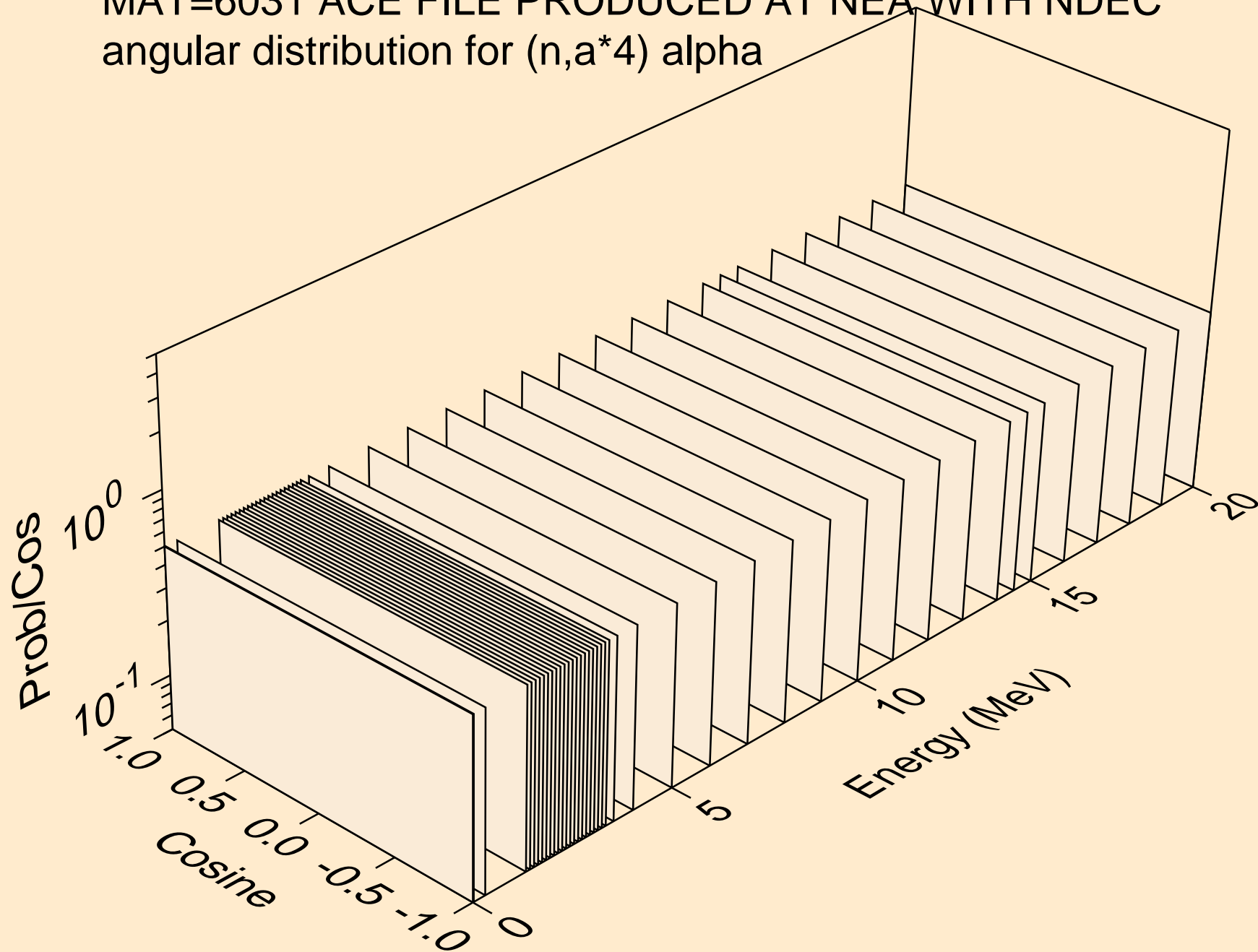
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angular distribution for (n,a\*2) alpha



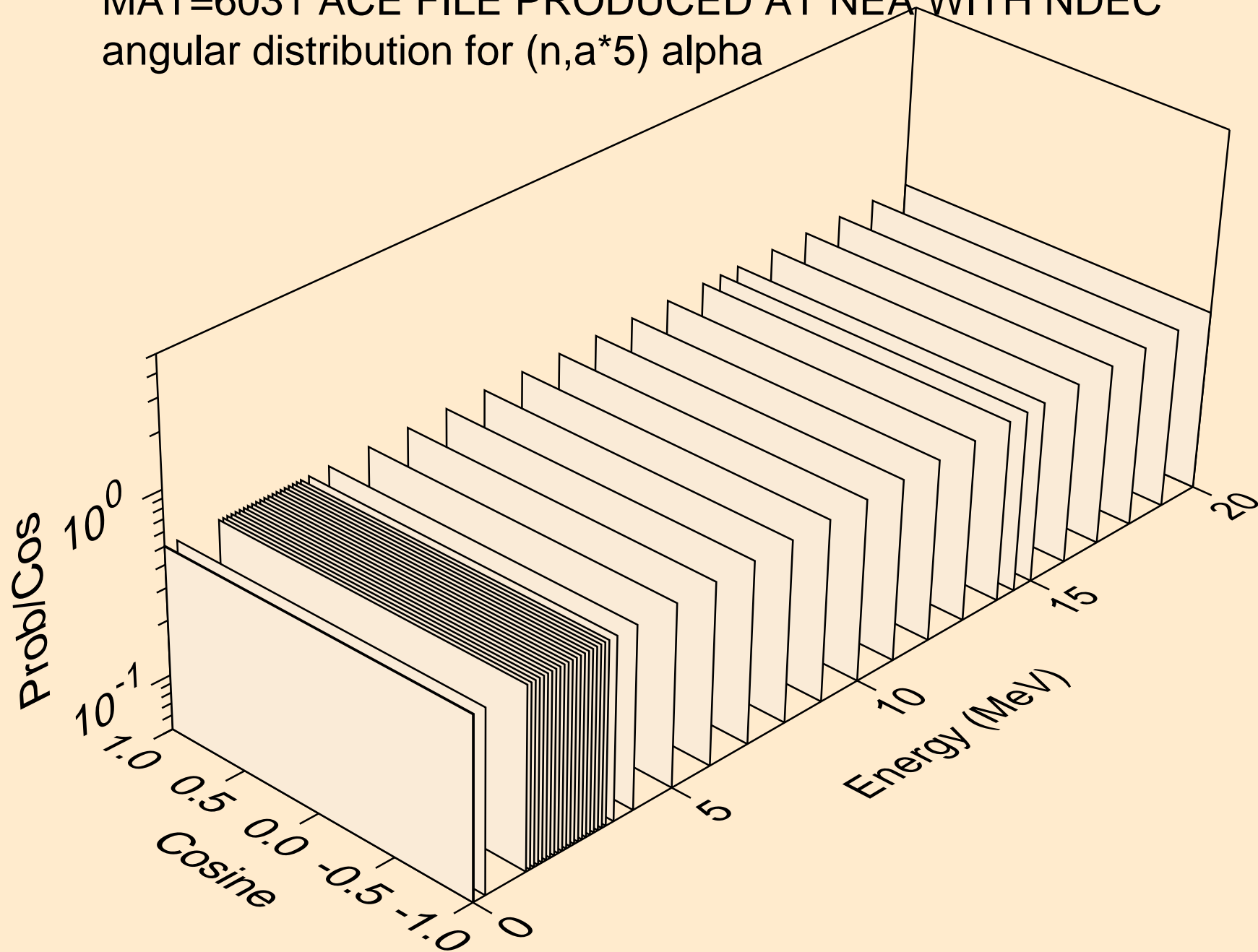
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angular distribution for (n,a\*3) alpha



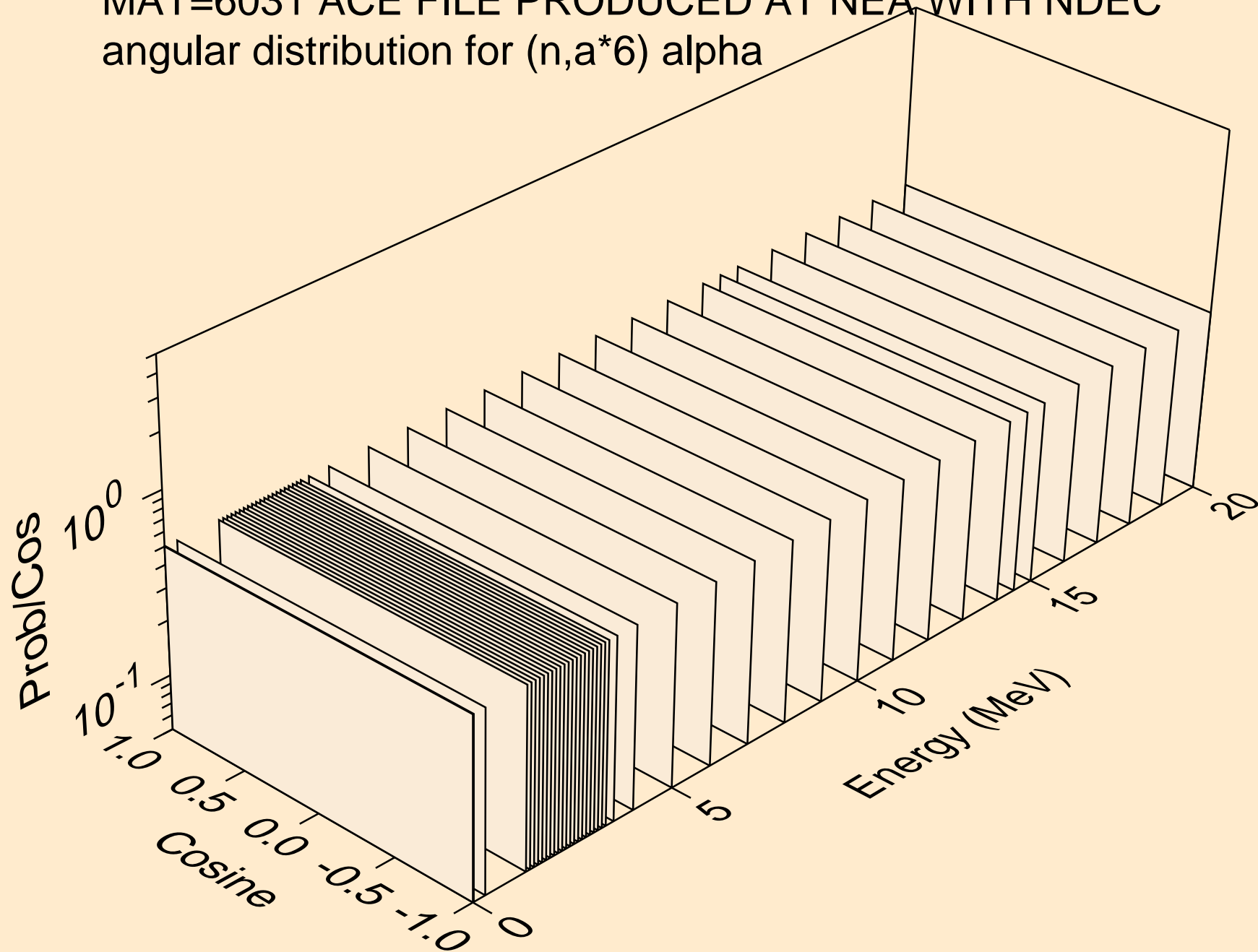
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angular distribution for (n,a\*4) alpha



MAT=6031 ACE FILE PRODUCED AT NEA WITH NDEC  
angular distribution for (n,a\*5) alpha

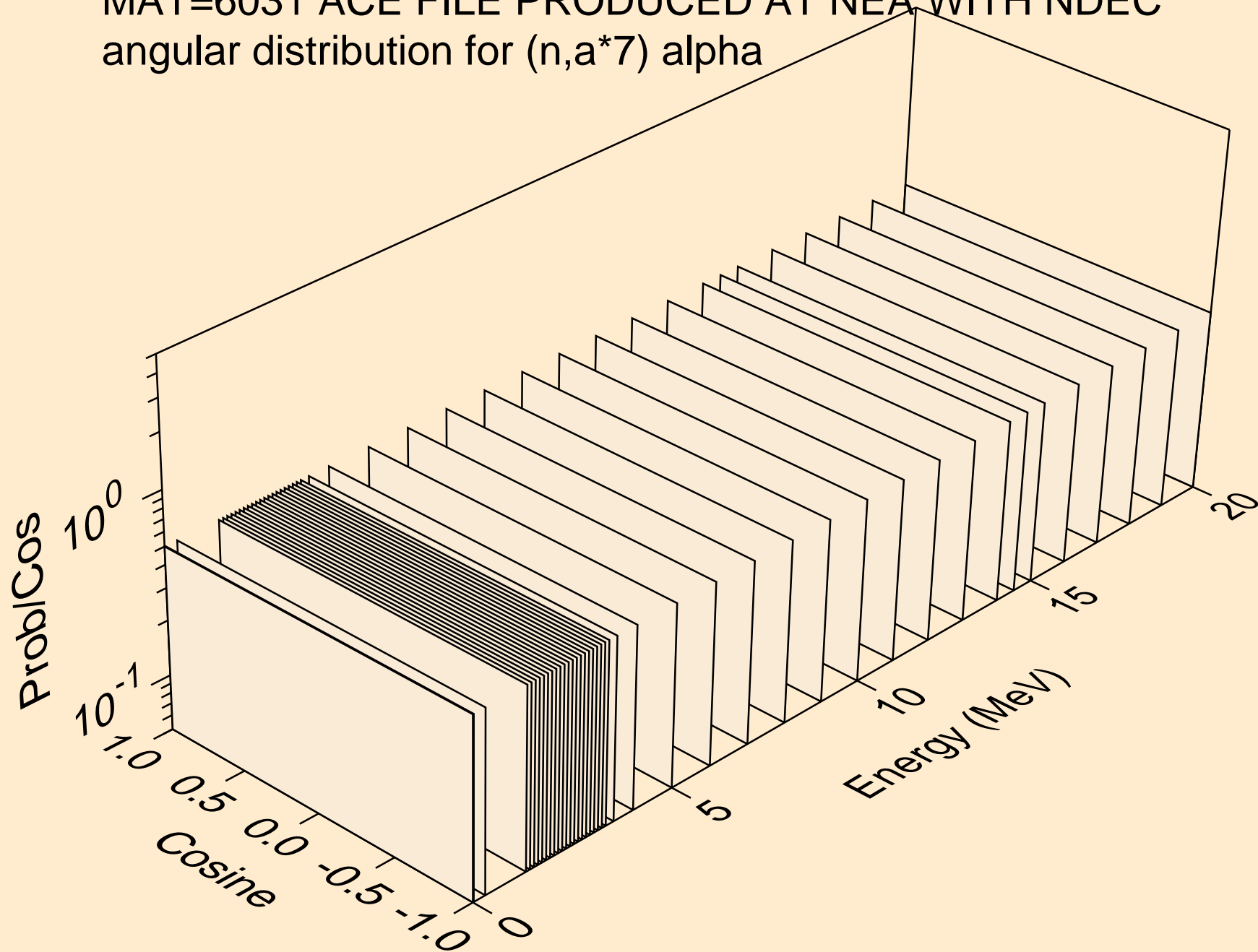


MAT=6031 ACE FILE PRODUCED AT NEA WITH NDEC  
angular distribution for (n,a\*6) alpha

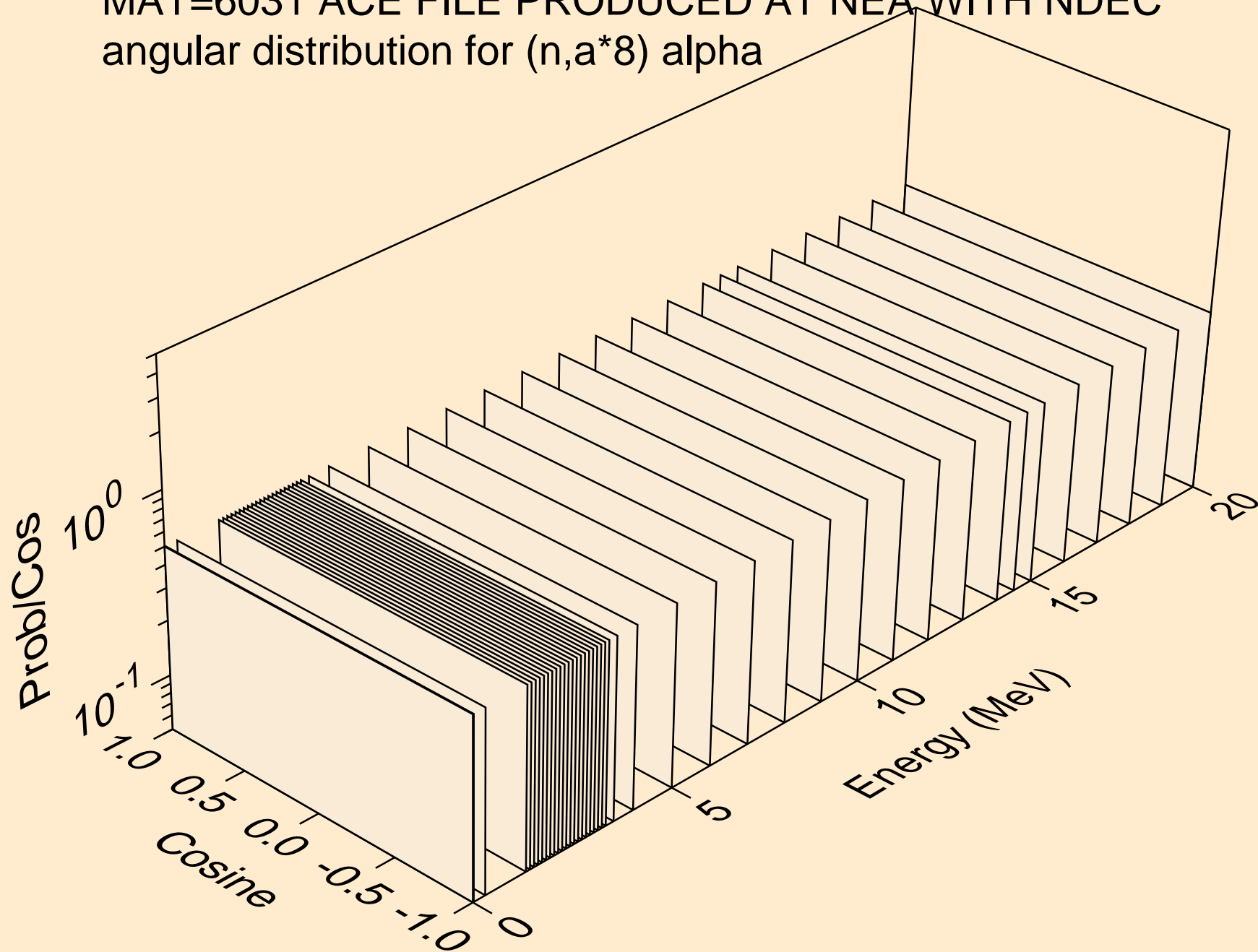




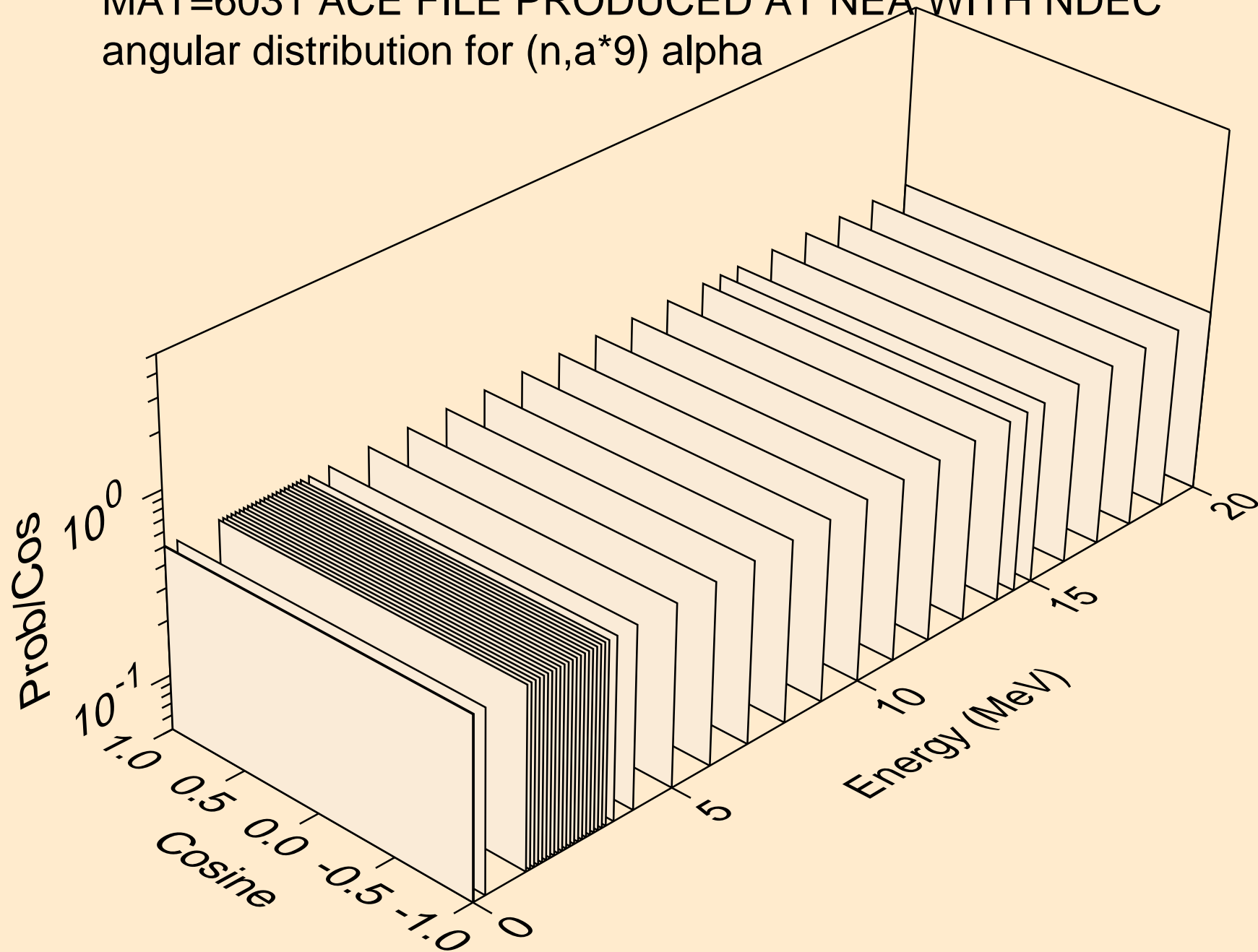
MAT=6031 ACE FILE PRODUCED AT NEA WITH NDEC  
angular distribution for (n,a\*7) alpha



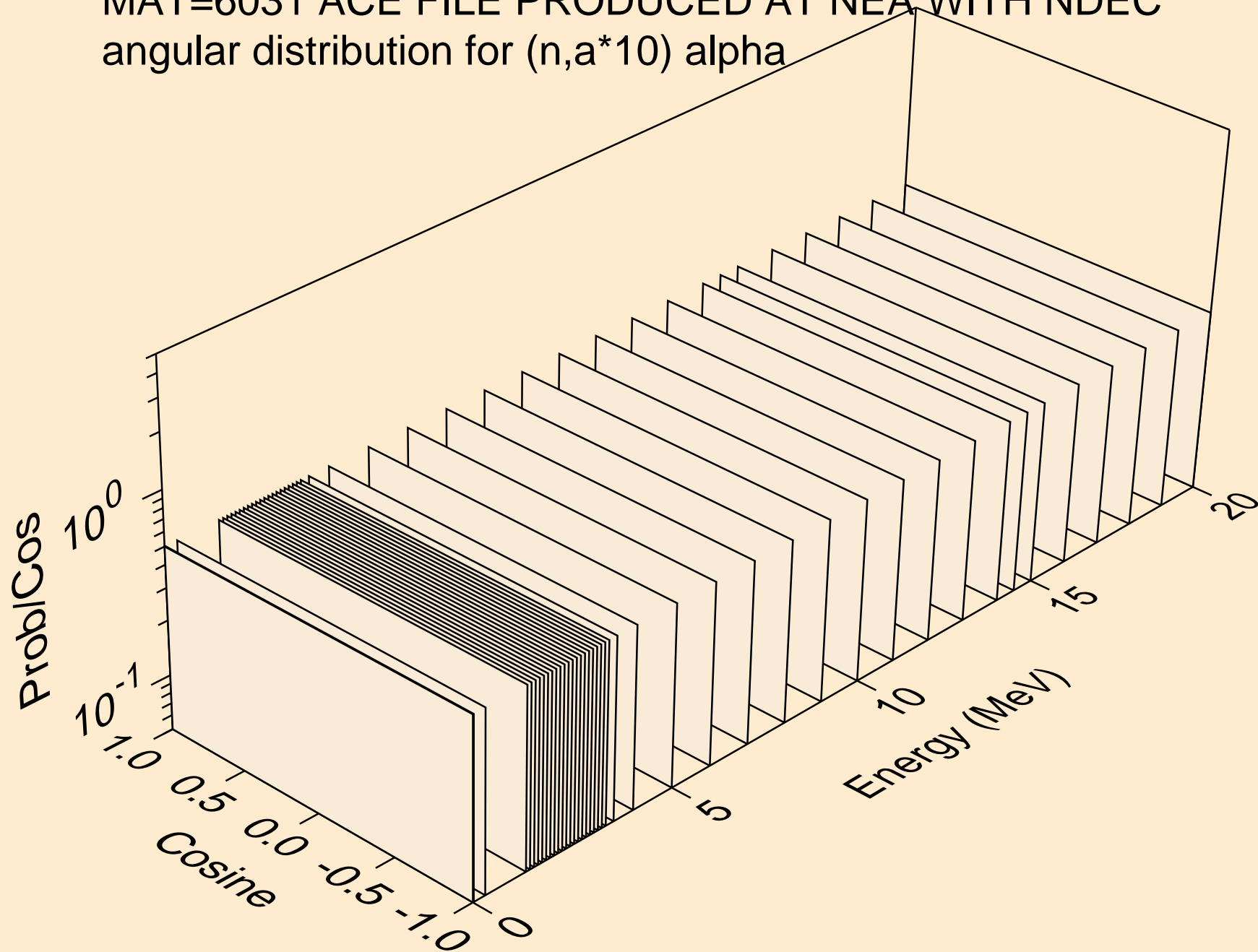
MAT=6031 ACE FILE PRODUCED AT NEA WITH NDEC  
angular distribution for (n,a\*8) alpha



MAT=6031 ACE FILE PRODUCED AT NEA WITH NDEC  
angular distribution for (n,a\*9) alpha



MAT=6031 ACE FILE PRODUCED AT NEA WITH NDEC  
angular distribution for (n,a\*10) alpha



MAT=6031 ACE FILE PRODUCED AT NEA WITH NDEC  
alphas from (n,a\*c)

