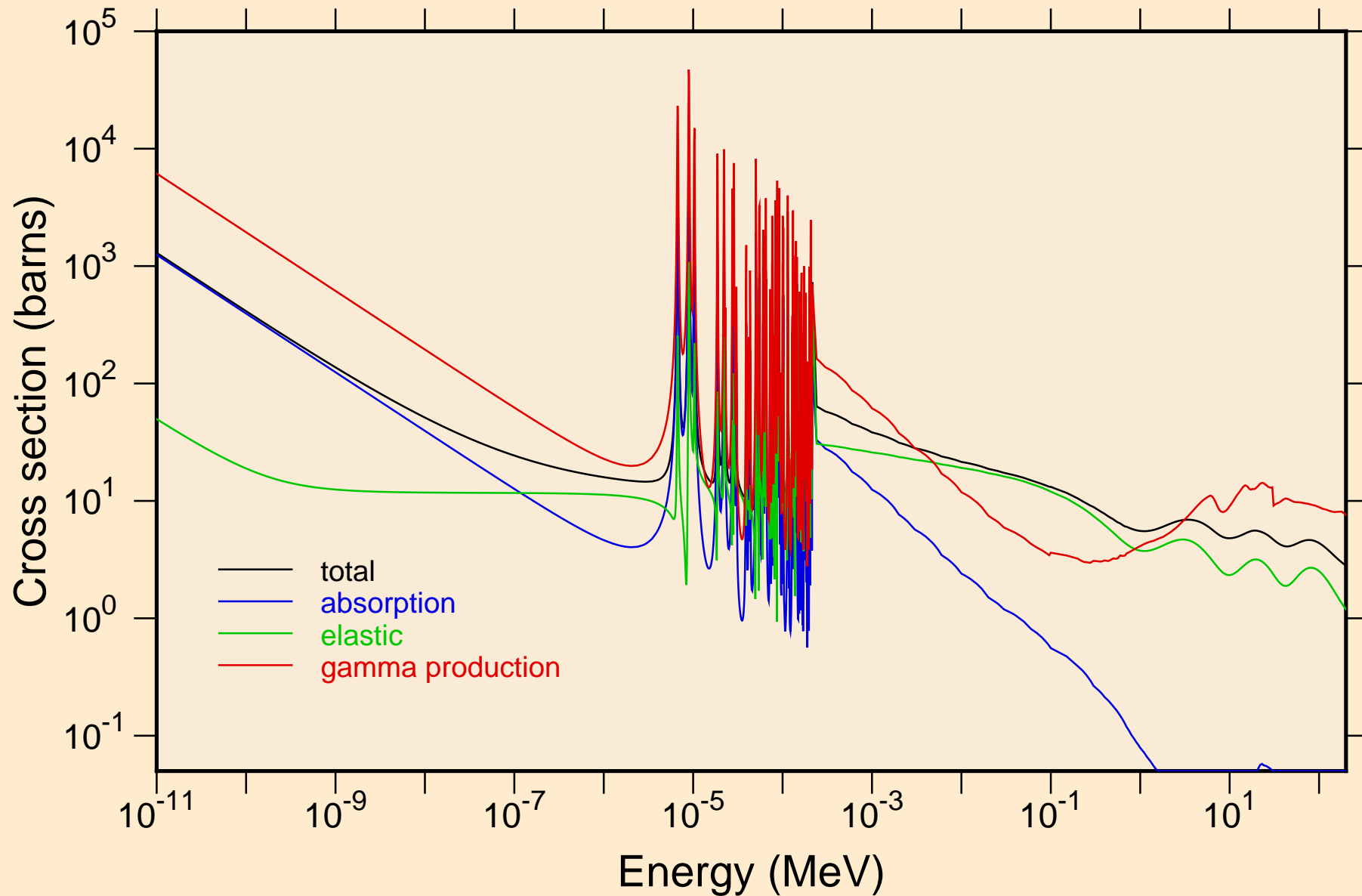
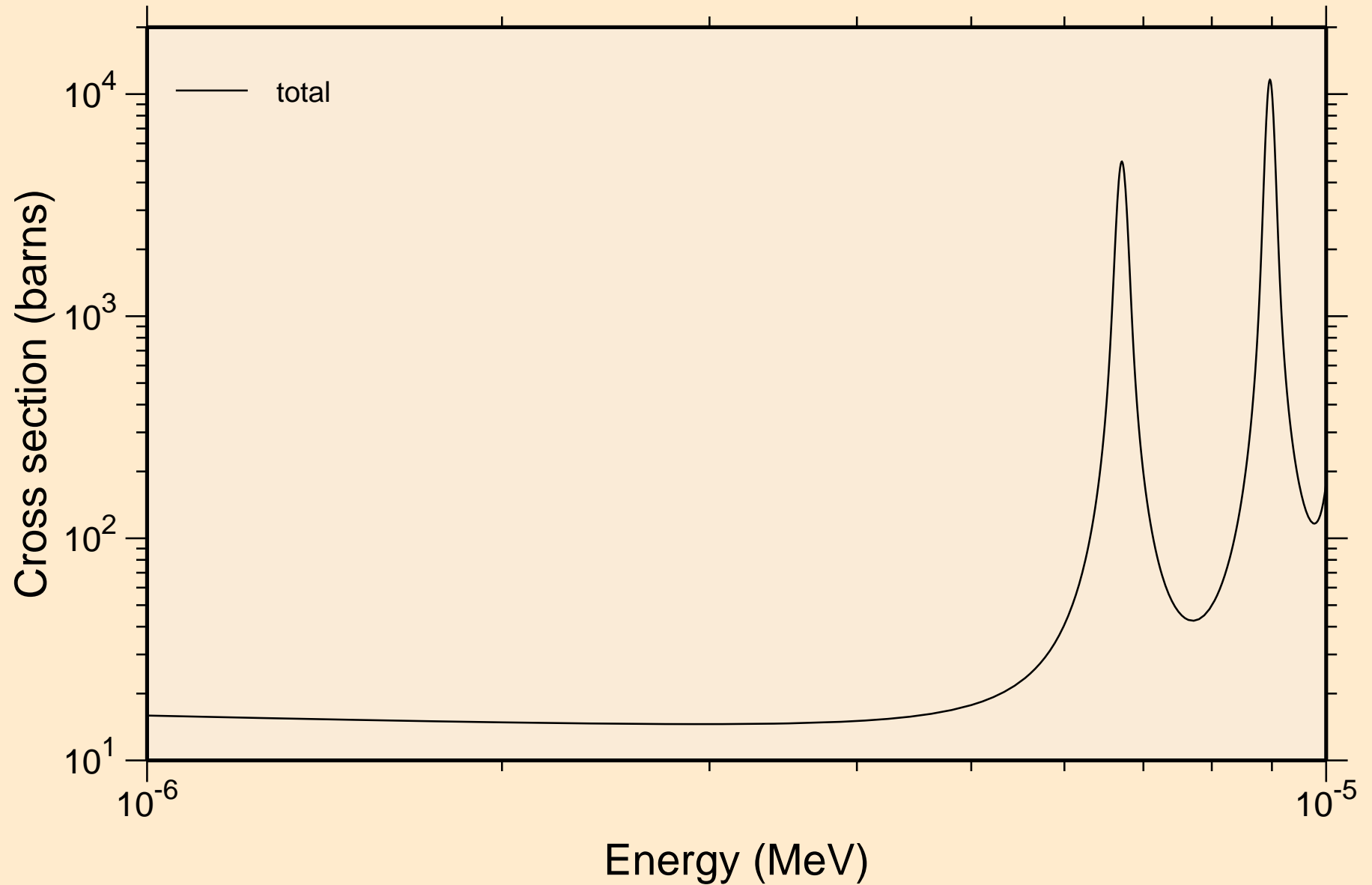


# MAT=7640 ACE FILE PRODUCED AT NEA WITH NDEC

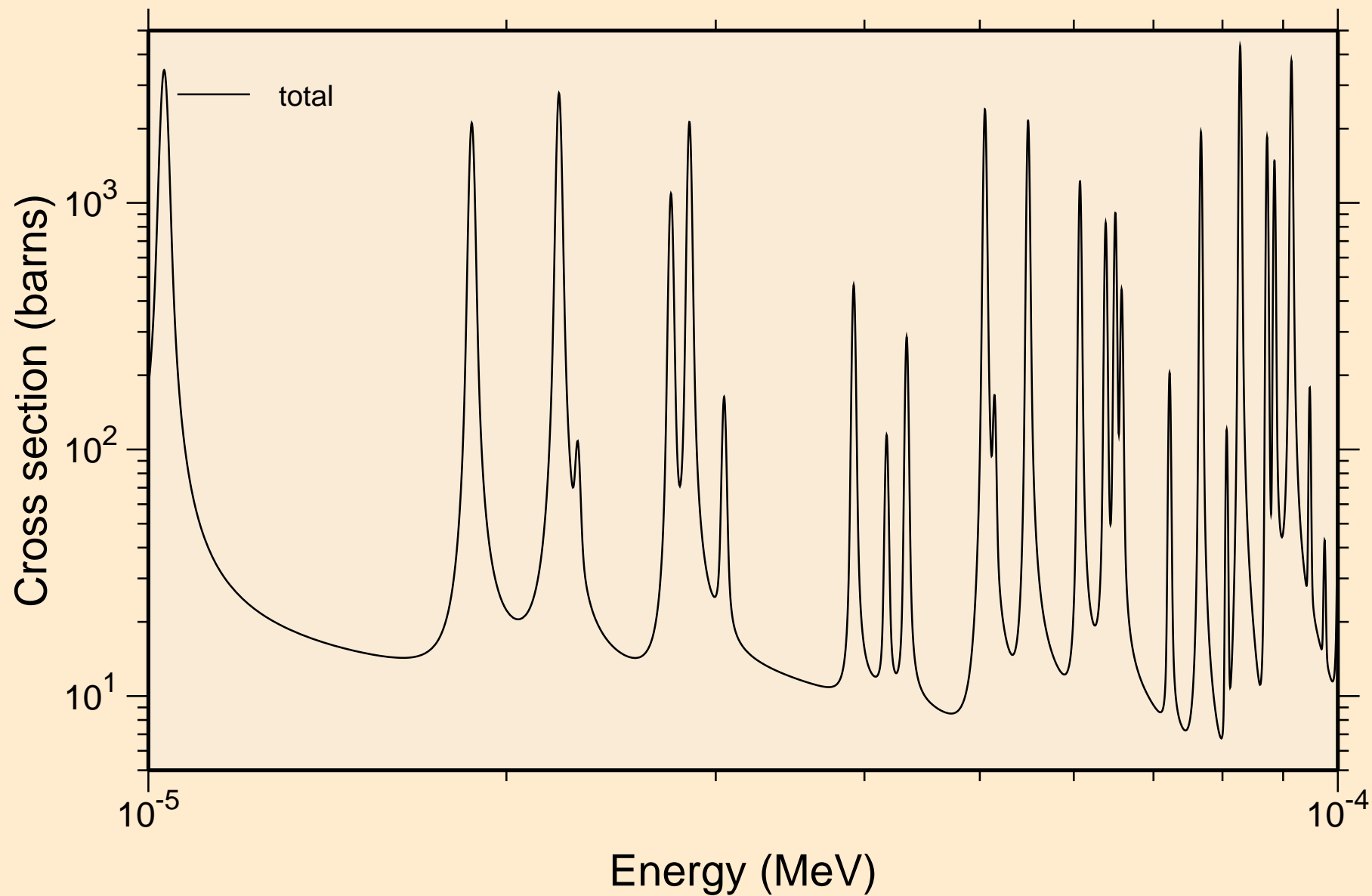
## Principal cross sections



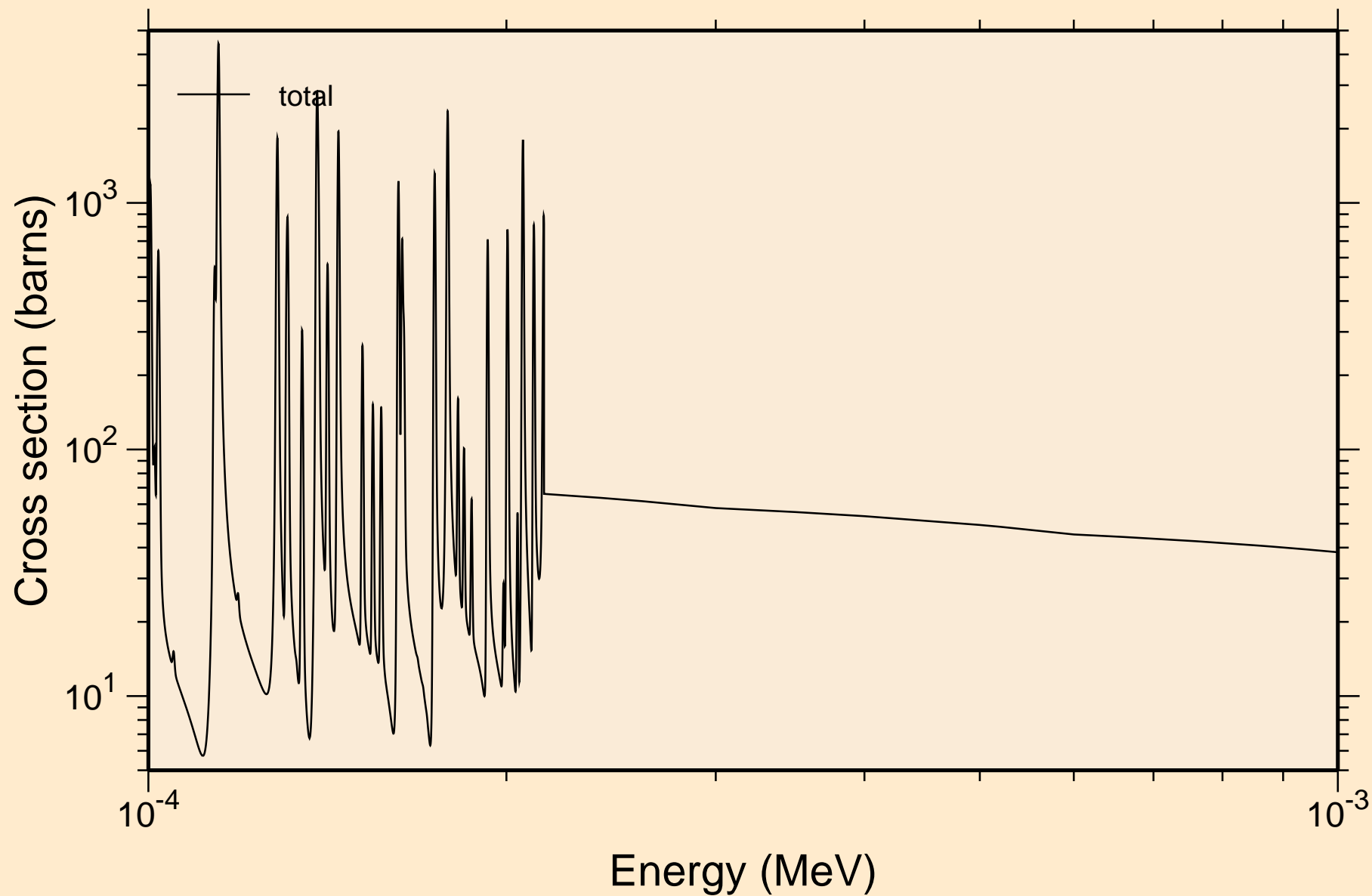
MAT=7640 ACE FILE PRODUCED AT NEA WITH NDEC  
resonance total cross section



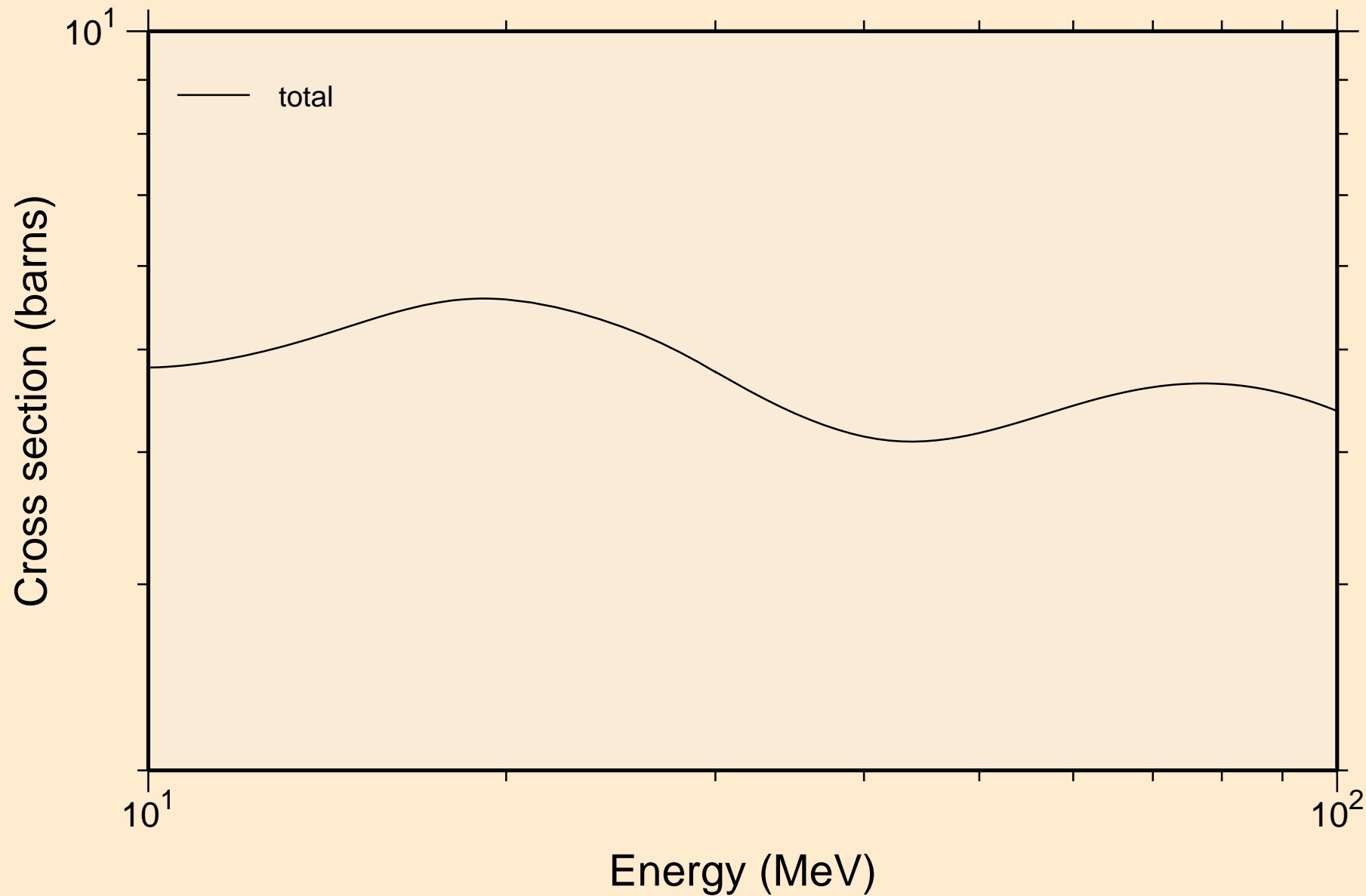
MAT=7640 ACE FILE PRODUCED AT NEA WITH NDEC  
resonance total cross section



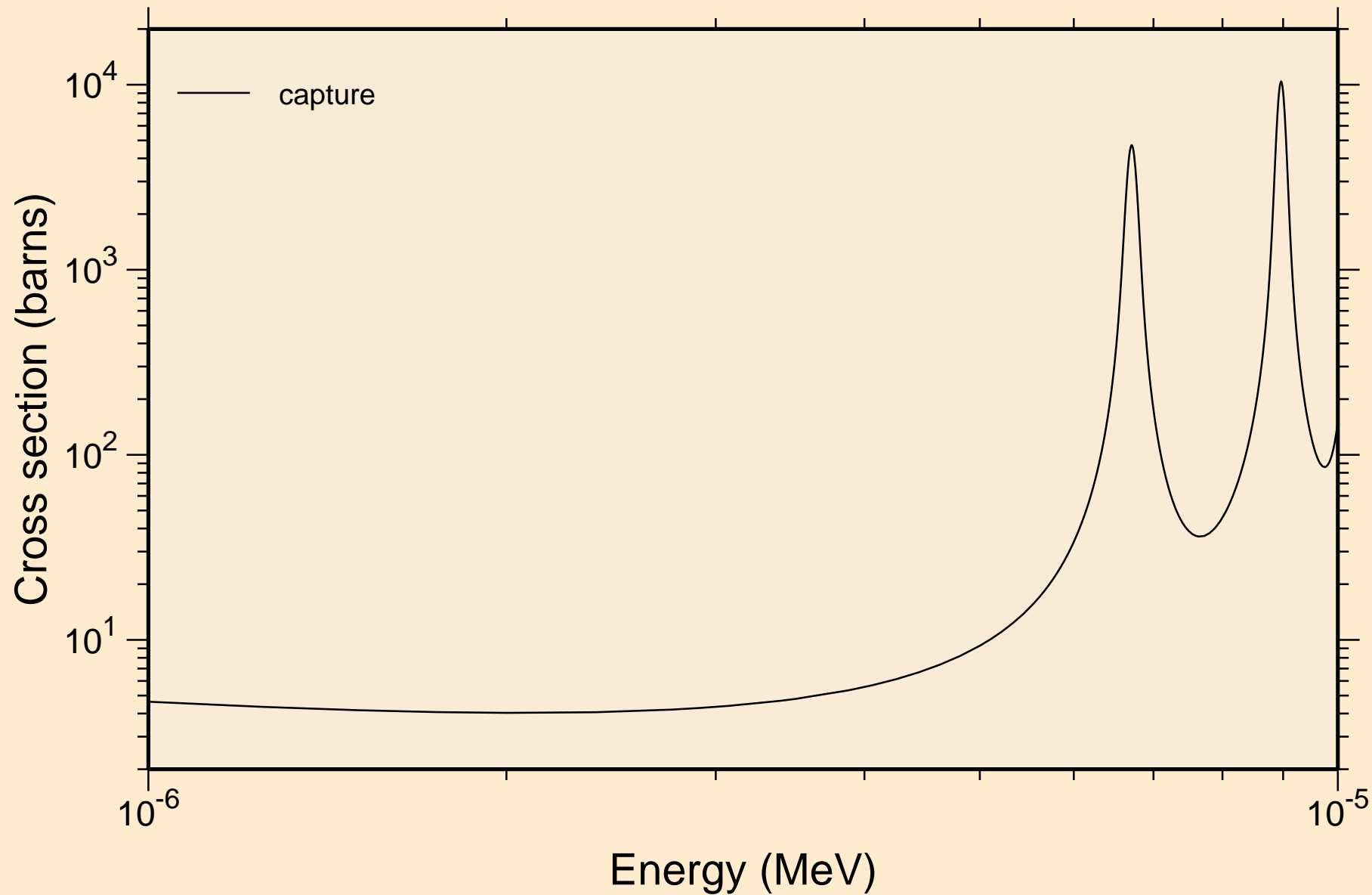
MAT=7640 ACE FILE PRODUCED AT NEA WITH NDEC  
resonance total cross section



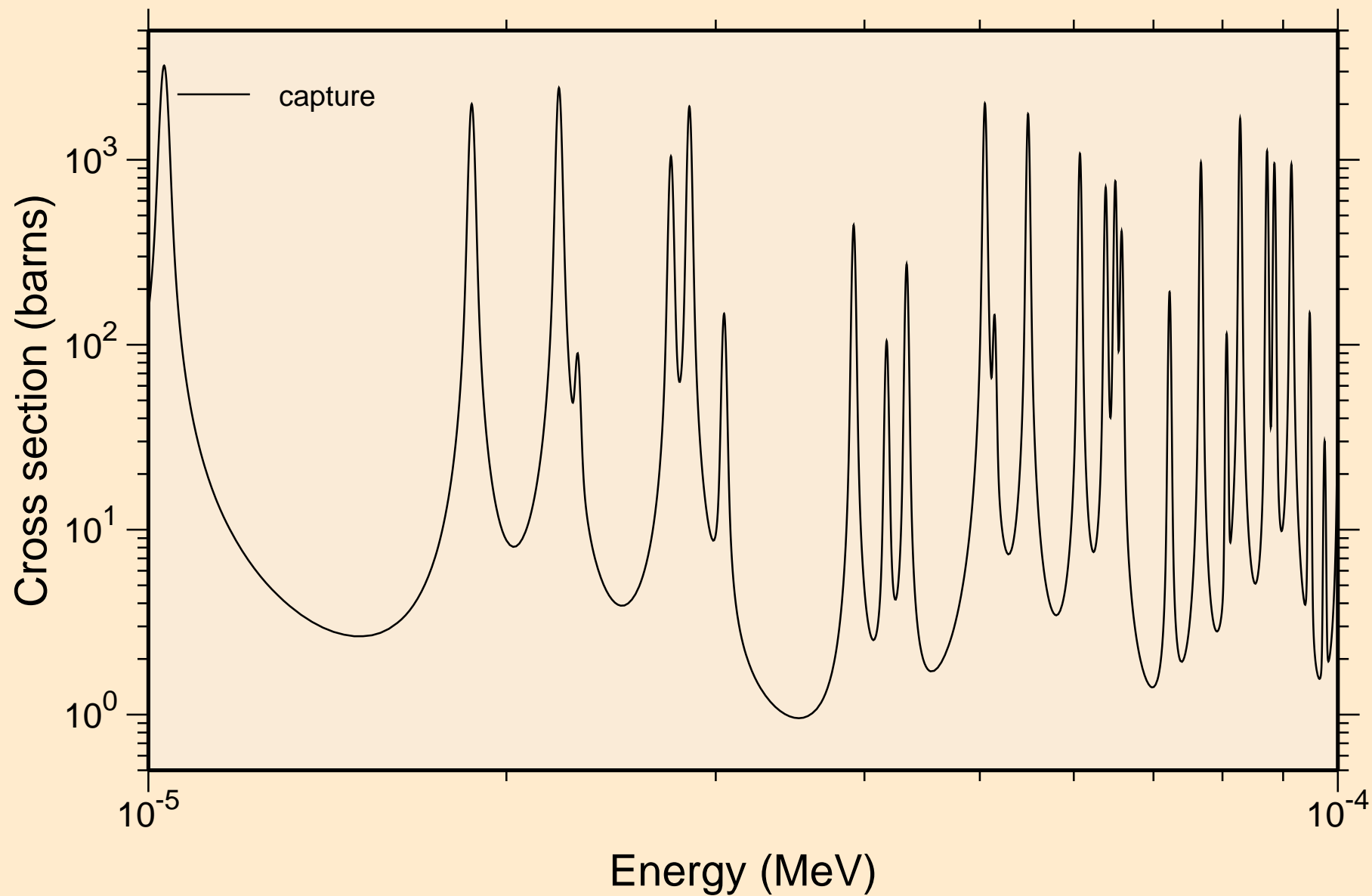
MAT=7640 ACE FILE PRODUCED AT NEA WITH NDEC  
resonance total cross section



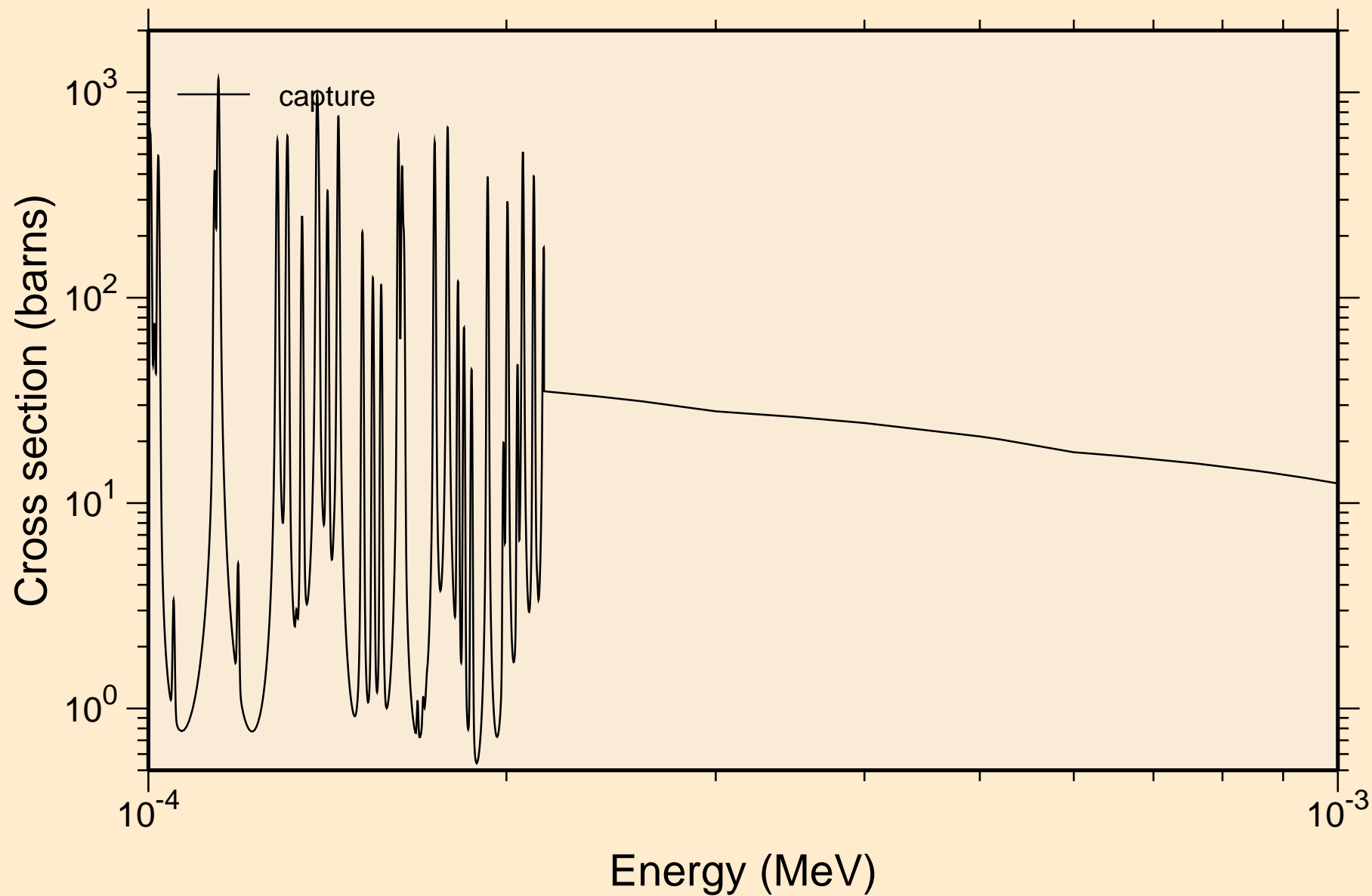
MAT=7640 ACE FILE PRODUCED AT NEA WITH NDEC  
resonance absorption cross sections



MAT=7640 ACE FILE PRODUCED AT NEA WITH NDEC  
resonance absorption cross sections

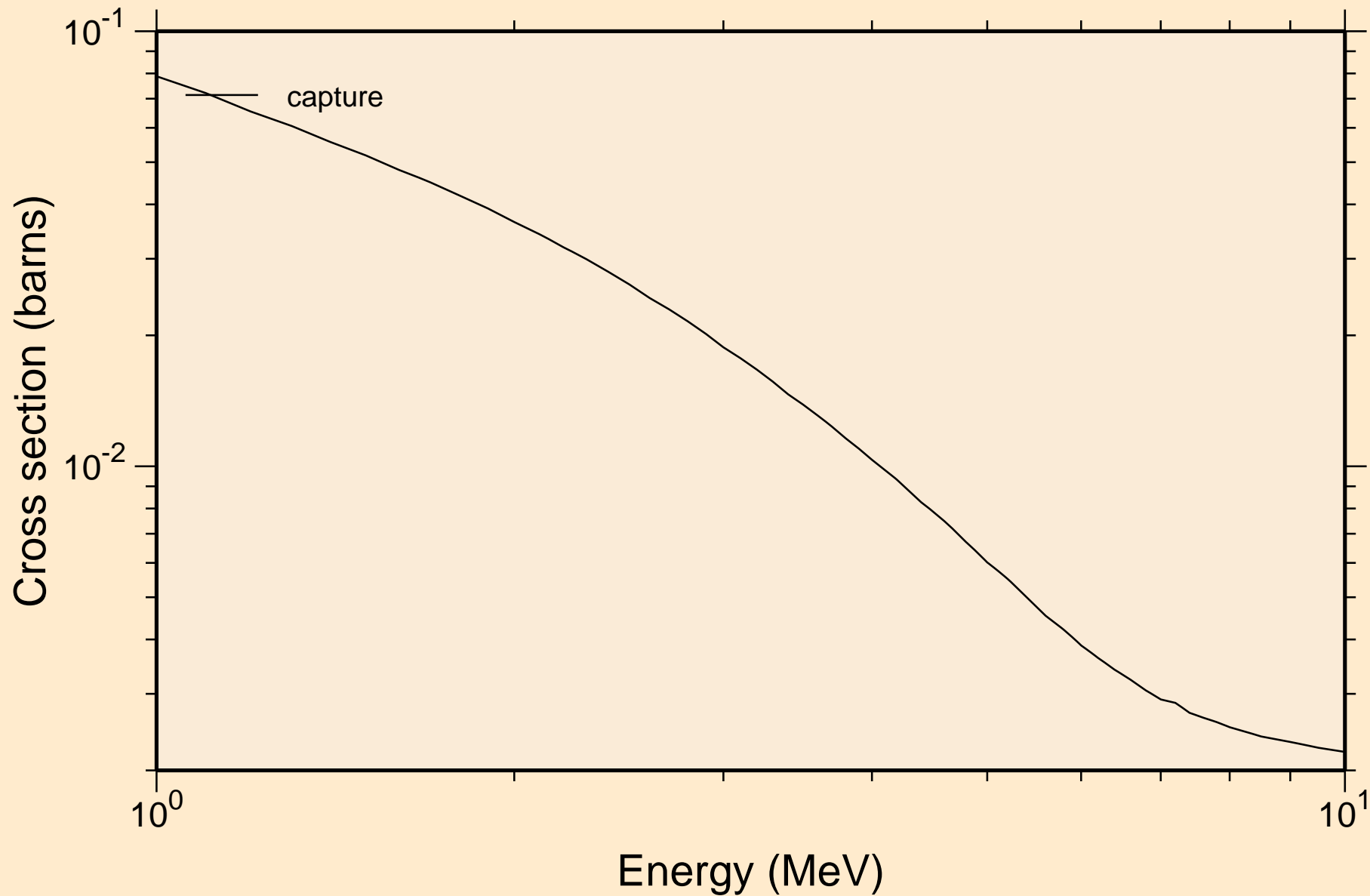


MAT=7640 ACE FILE PRODUCED AT NEA WITH NDEC  
resonance absorption cross sections

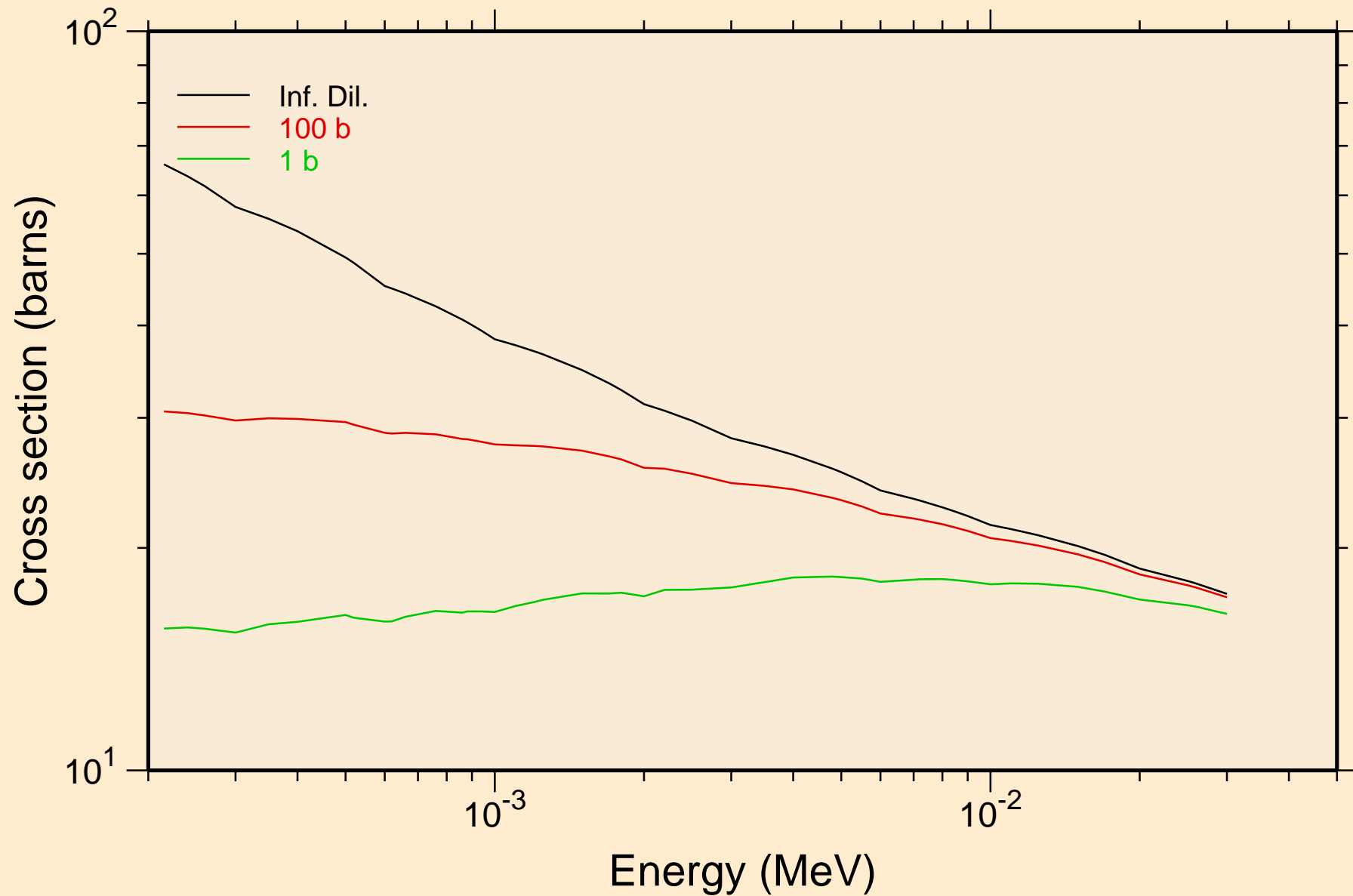




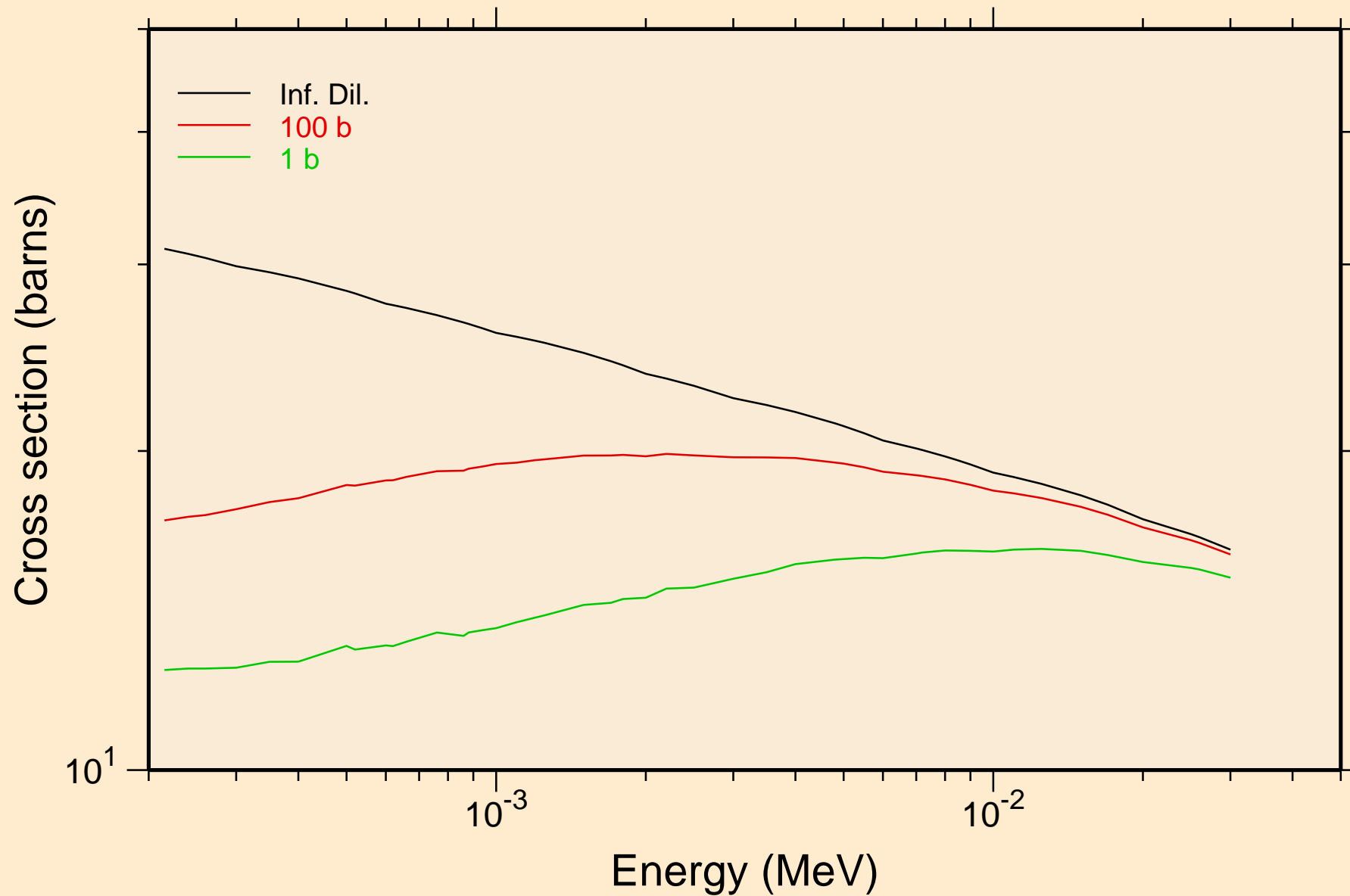
MAT=7640 ACE FILE PRODUCED AT NEA WITH NDEC  
resonance absorption cross sections



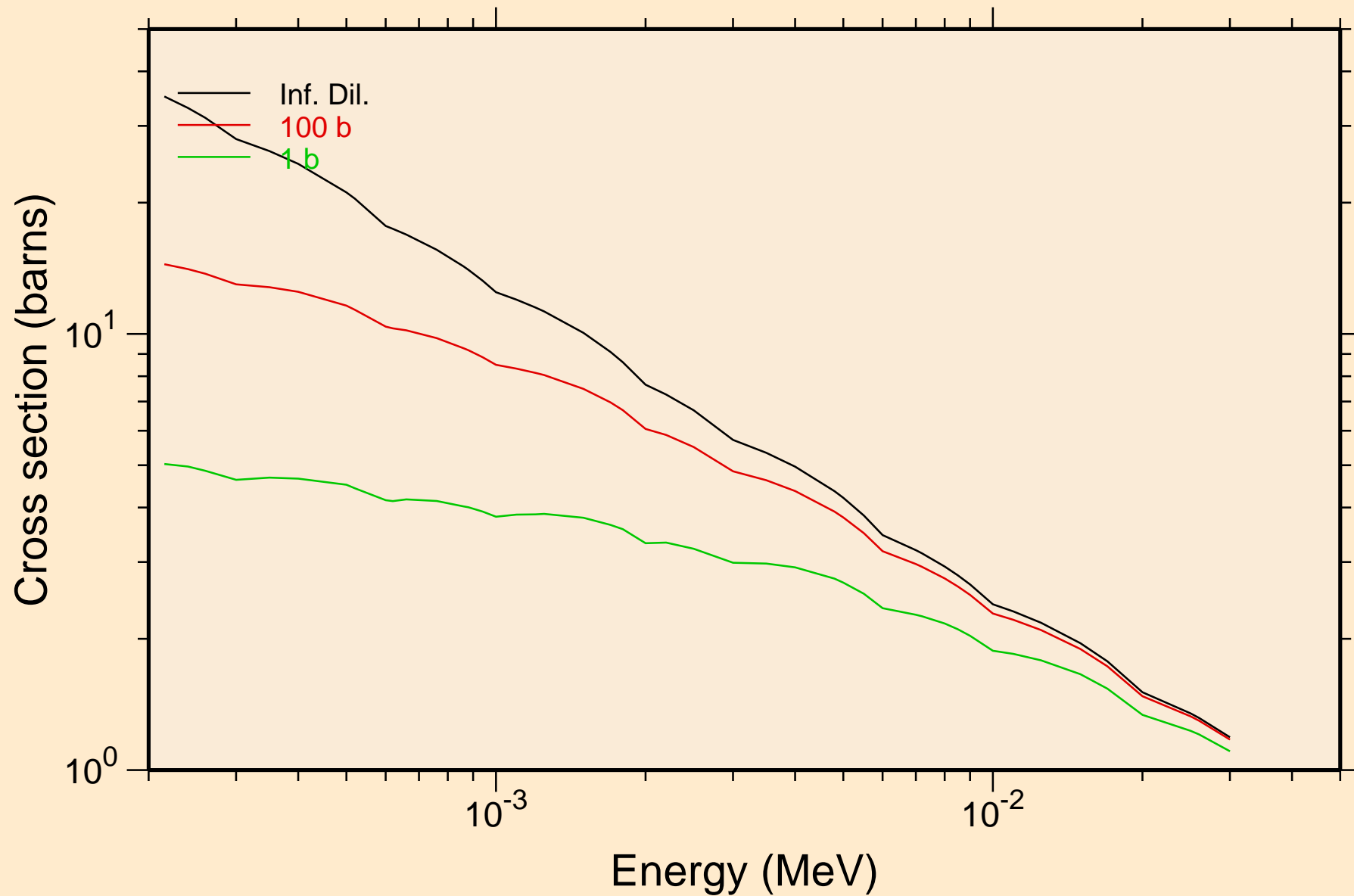
MAT=7640 ACE FILE PRODUCED AT NEA WITH NDEC  
UR total cross section



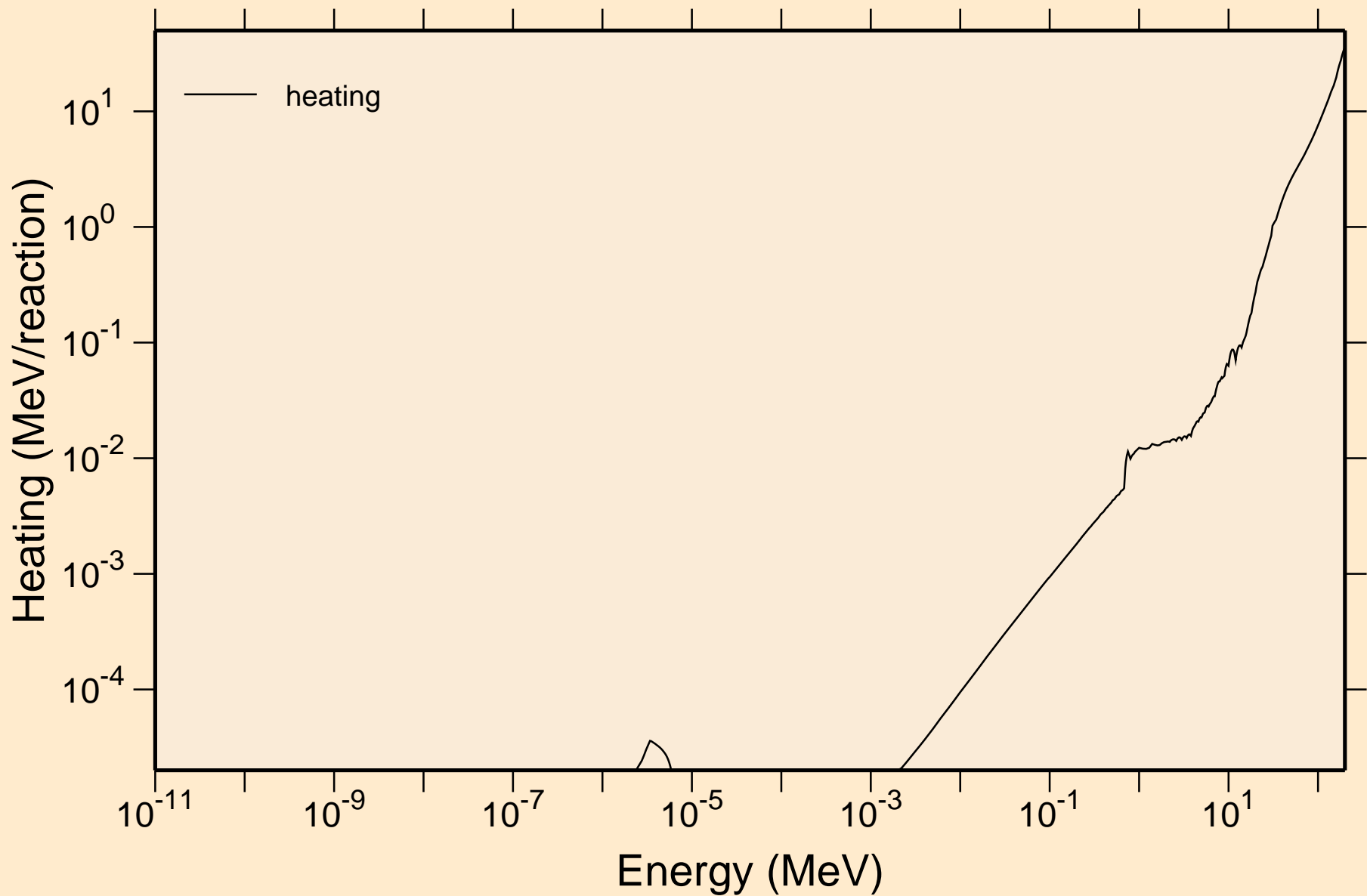
MAT=7640 ACE FILE PRODUCED AT NEA WITH NDEC  
UR elastic cross section



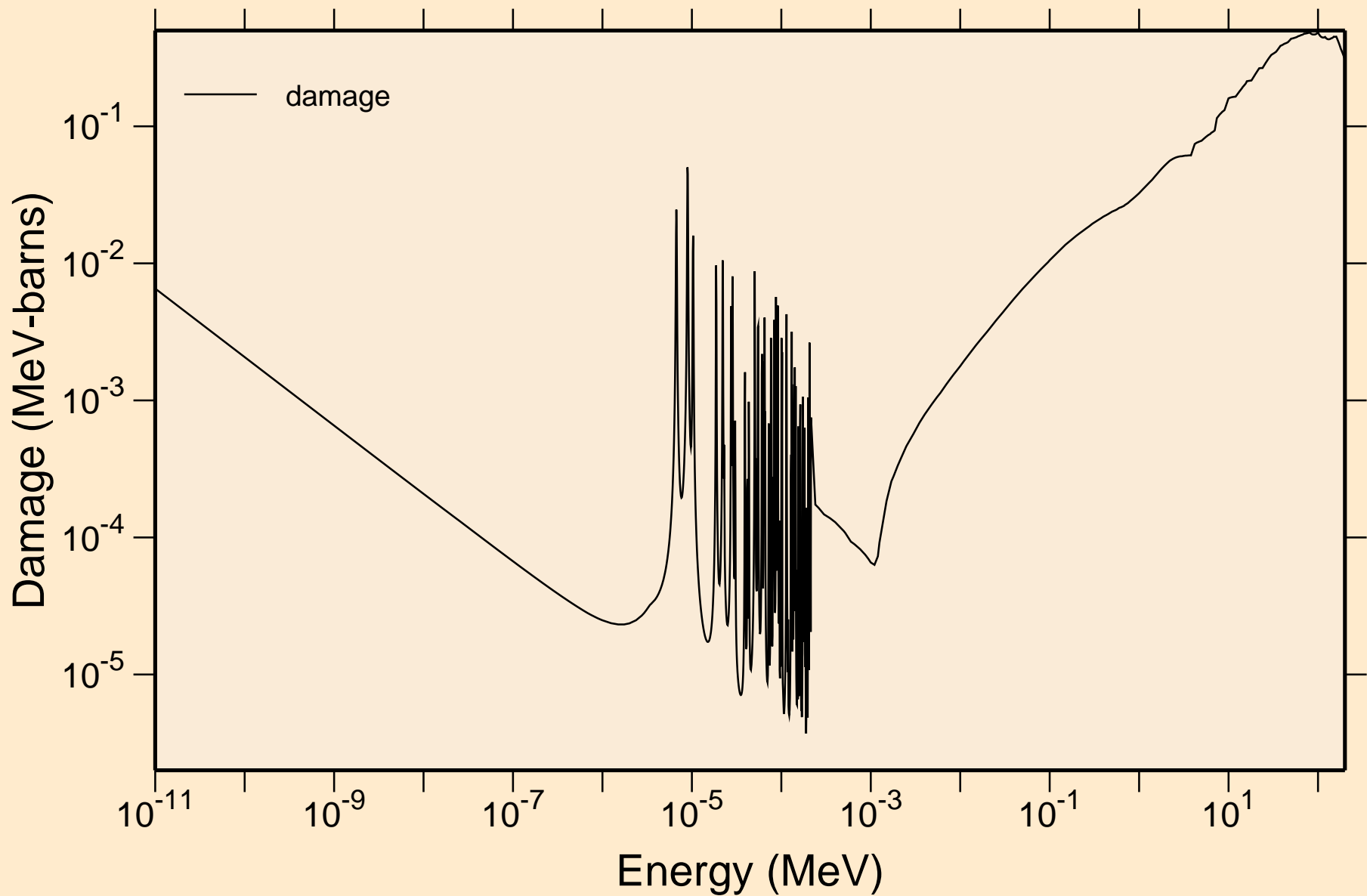
MAT=7640 ACE FILE PRODUCED AT NEA WITH NDEC  
UR capture cross section



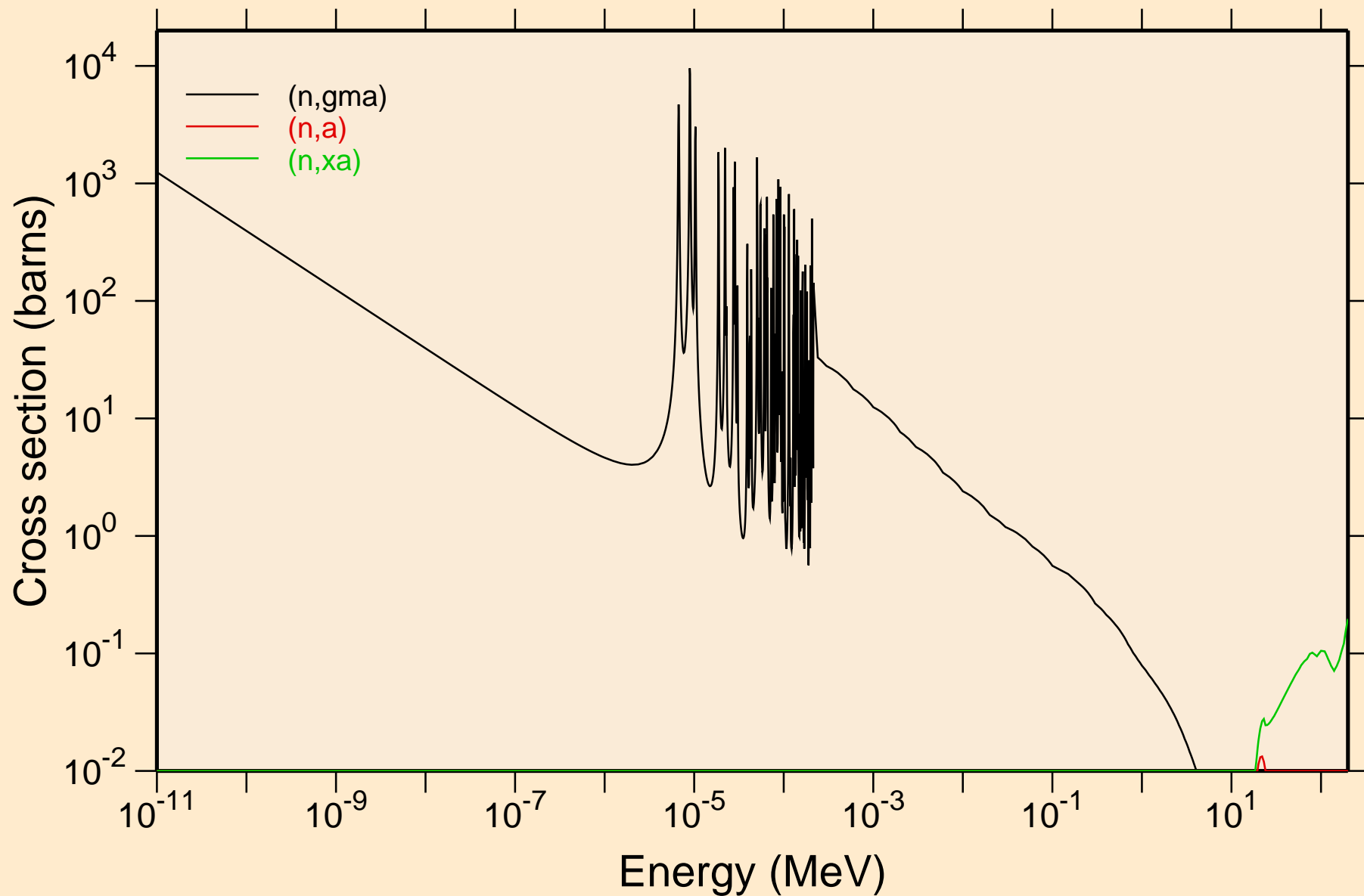
MAT=7640 ACE FILE PRODUCED AT NEA WITH NDEC  
Heating



MAT=7640 ACE FILE PRODUCED AT NEA WITH NDEC  
Damage

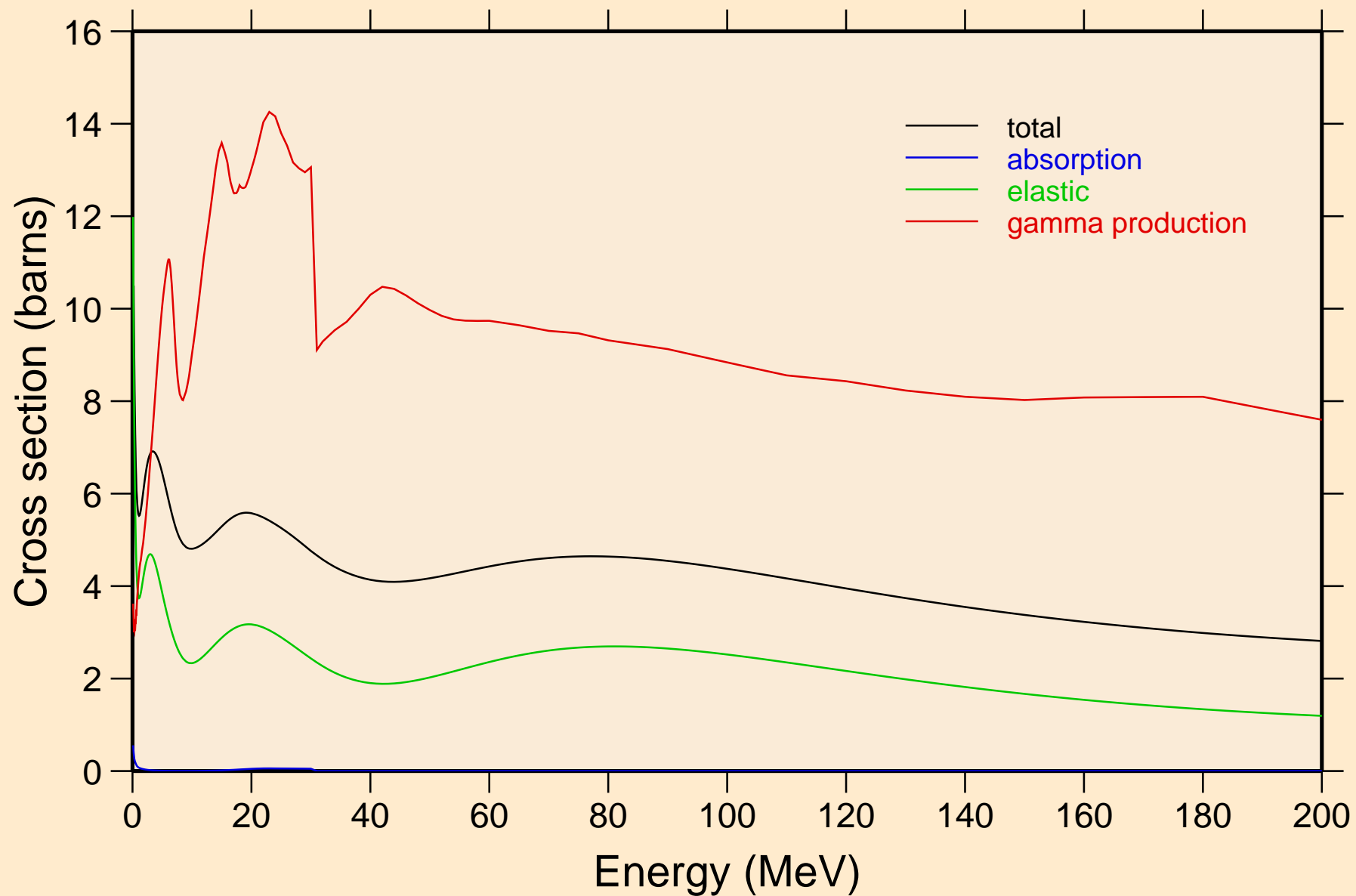


MAT=7640 ACE FILE PRODUCED AT NEA WITH NDEC  
Non-threshold reactions



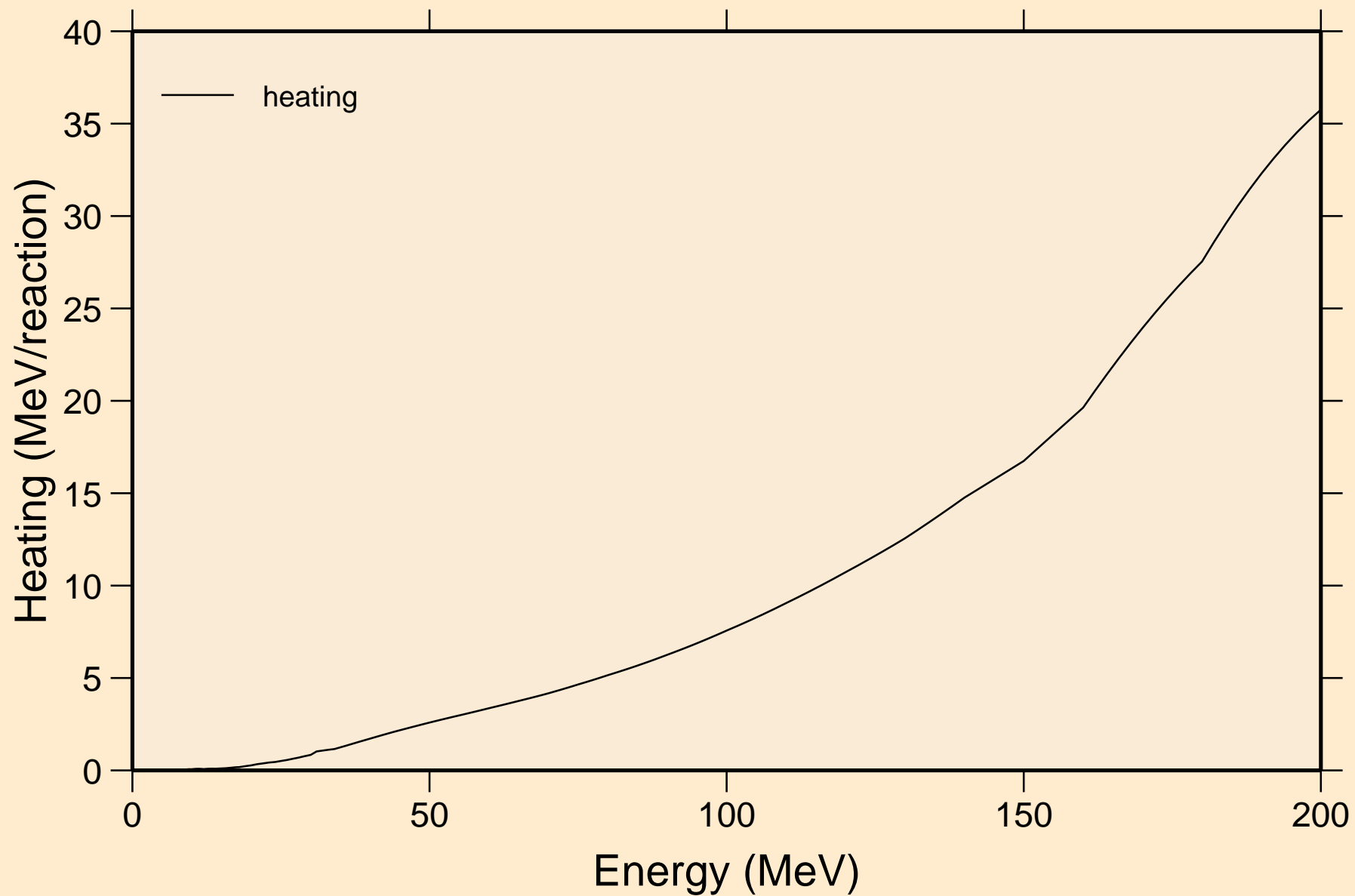
# MAT=7640 ACE FILE PRODUCED AT NEA WITH NDEC

## Principal cross sections

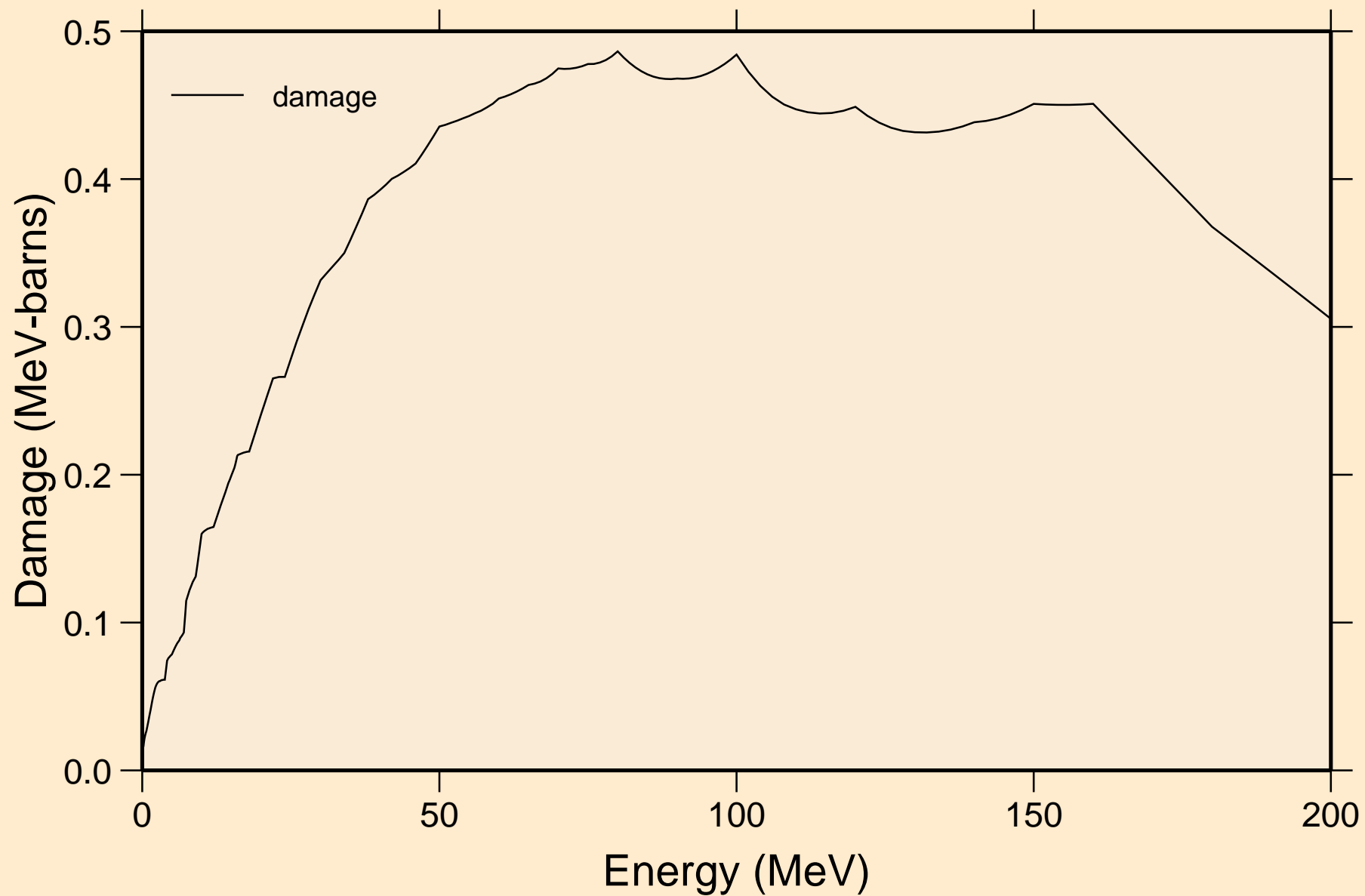




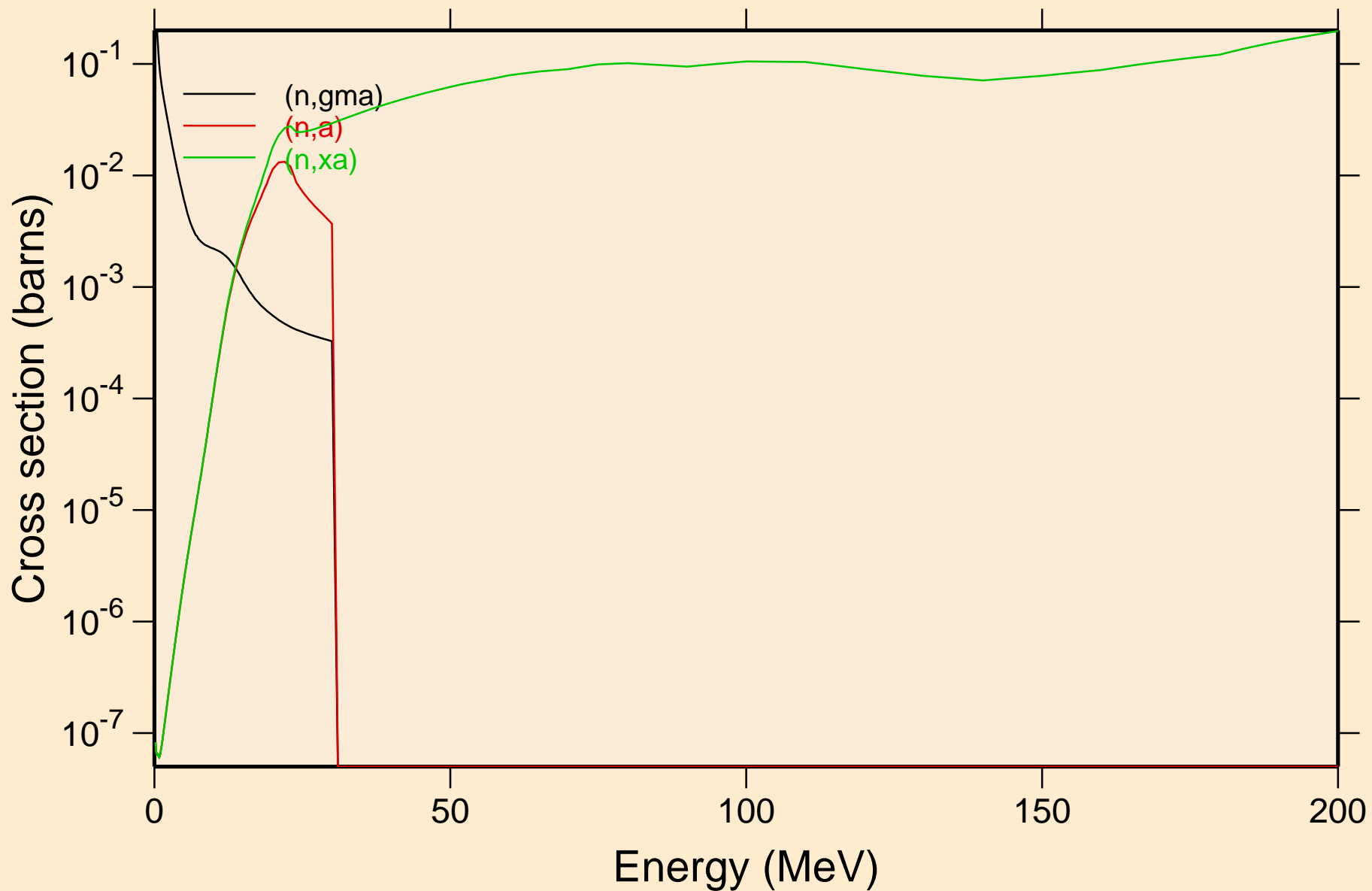
MAT=7640 ACE FILE PRODUCED AT NEA WITH NDEC  
Heating



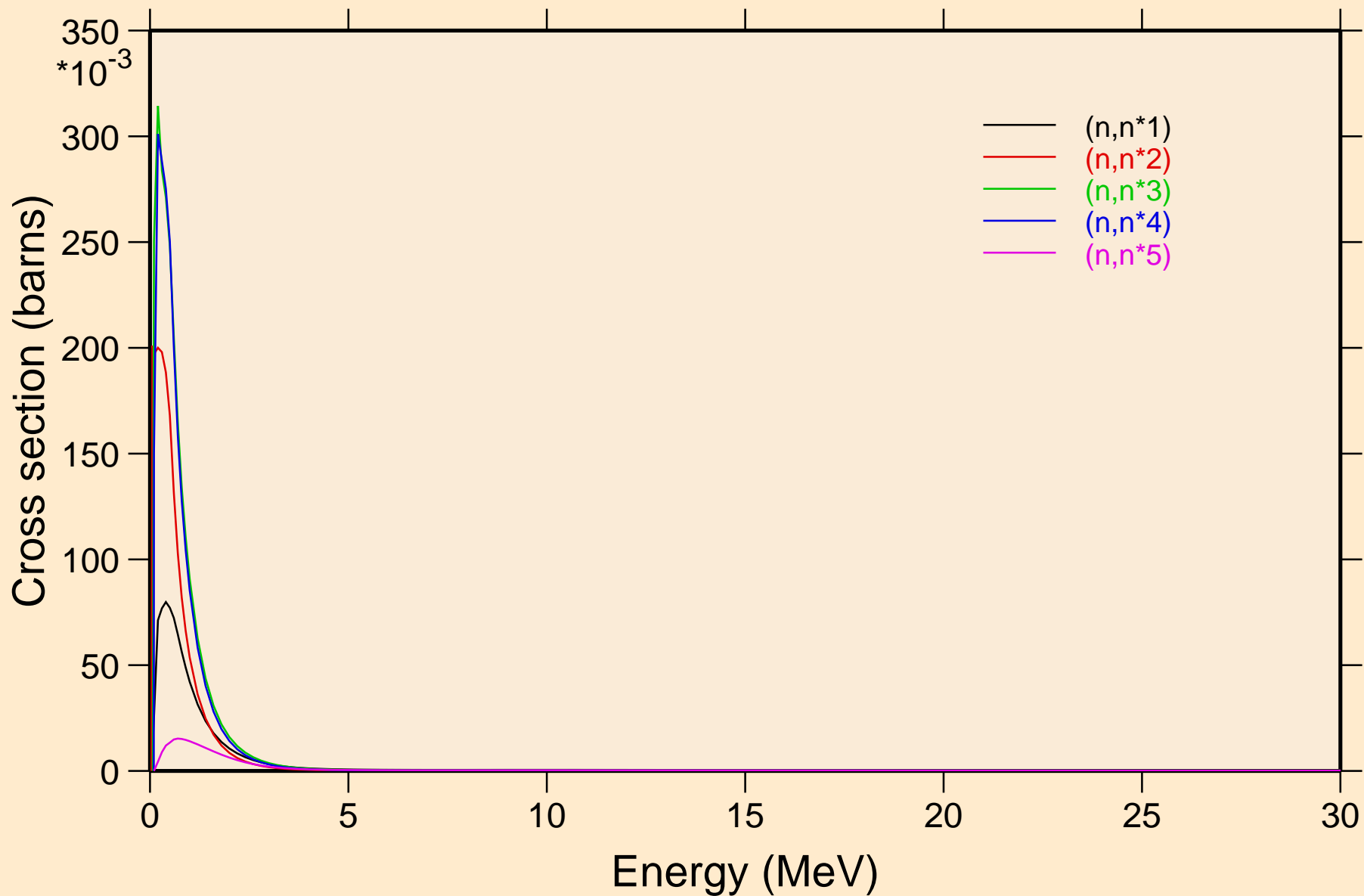
# MAT=7640 ACE FILE PRODUCED AT NEA WITH NDEC Damage



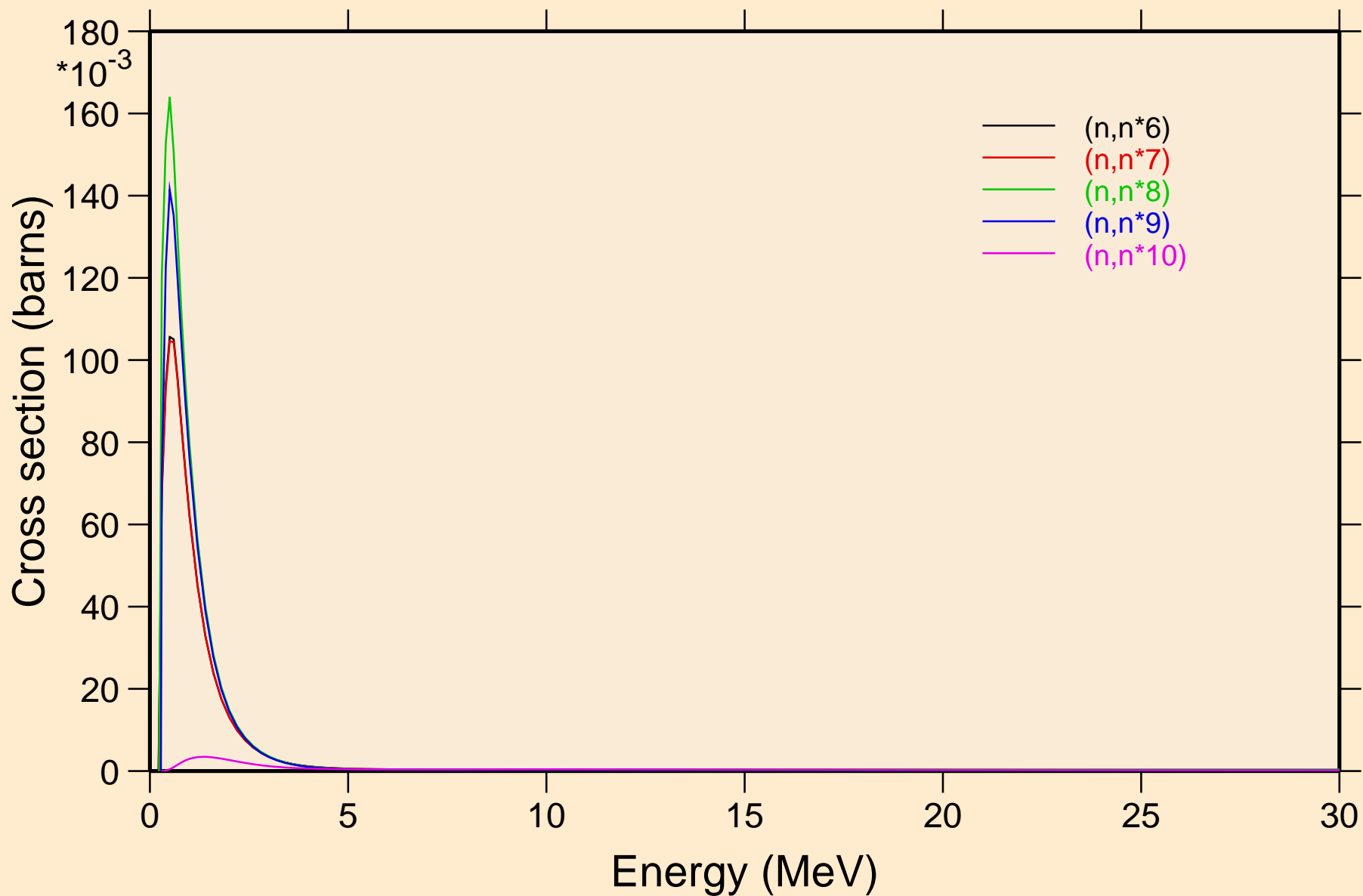
MAT=7640 ACE FILE PRODUCED AT NEA WITH NDEC  
Non-threshold reactions



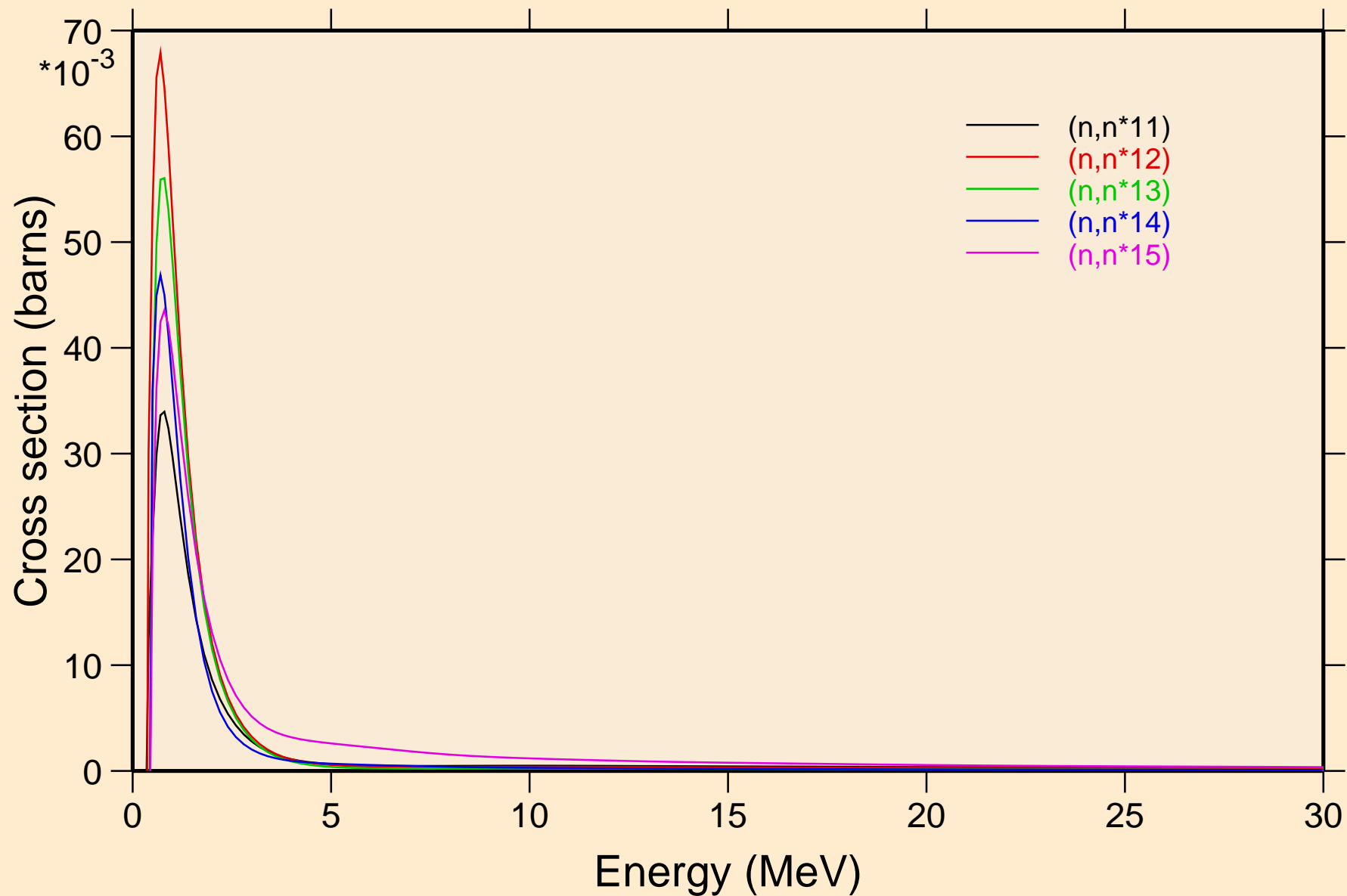
MAT=7640 ACE FILE PRODUCED AT NEA WITH NDEC  
Inelastic levels



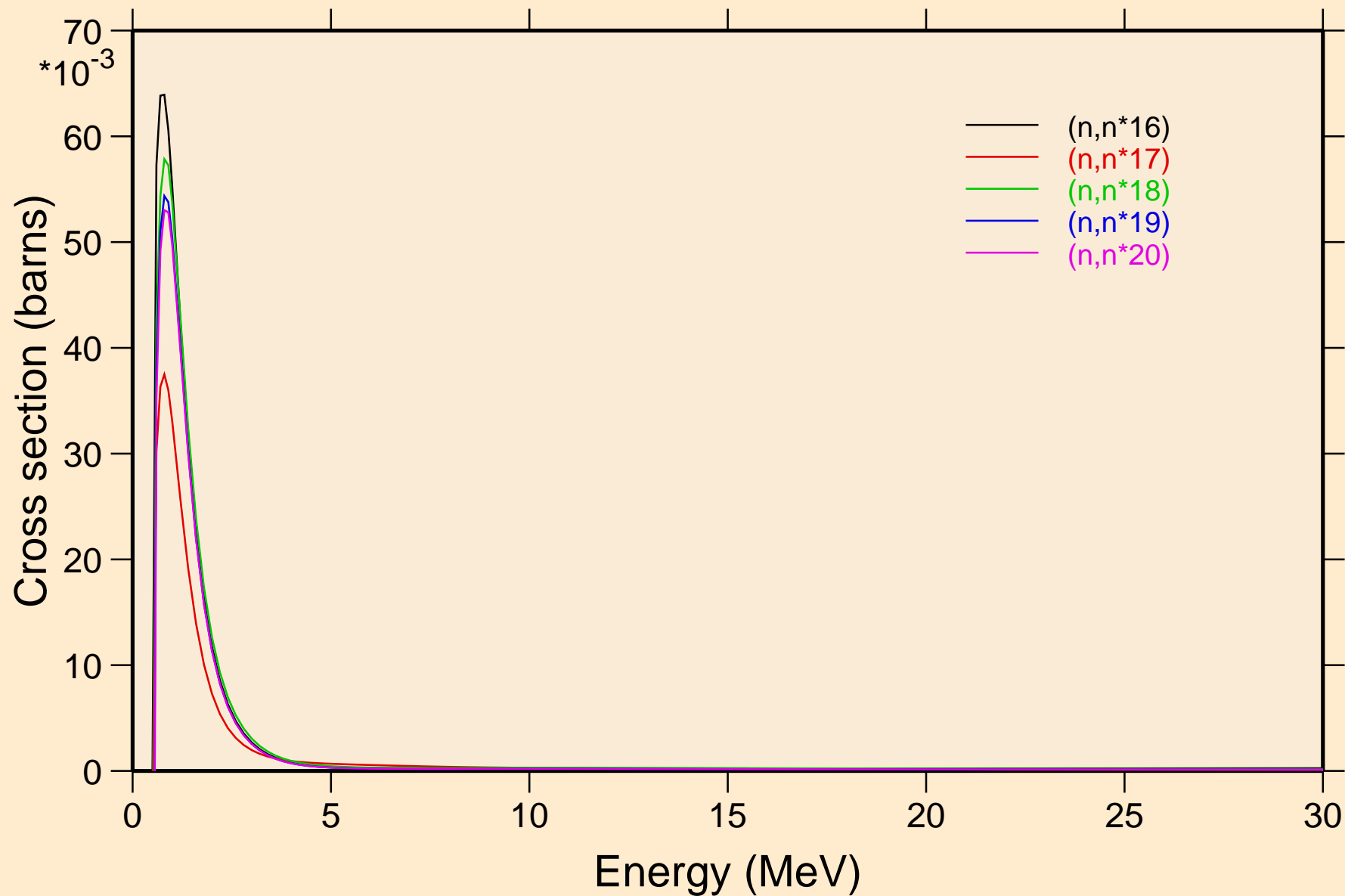
MAT=7640 ACE FILE PRODUCED AT NEA WITH NDEC  
Inelastic levels



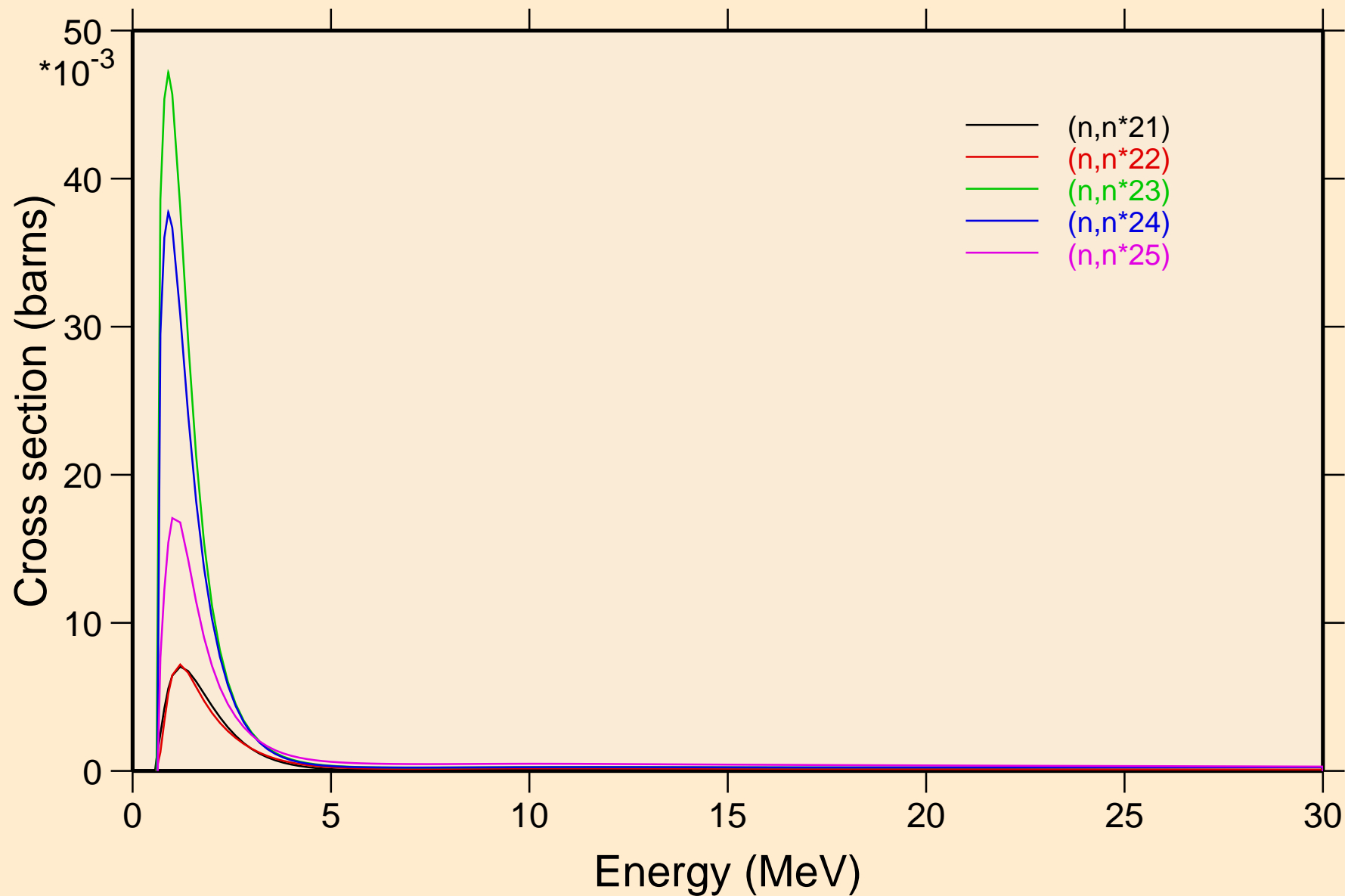
MAT=7640 ACE FILE PRODUCED AT NEA WITH NDEC  
Inelastic levels



MAT=7640 ACE FILE PRODUCED AT NEA WITH NDEC  
Inelastic levels

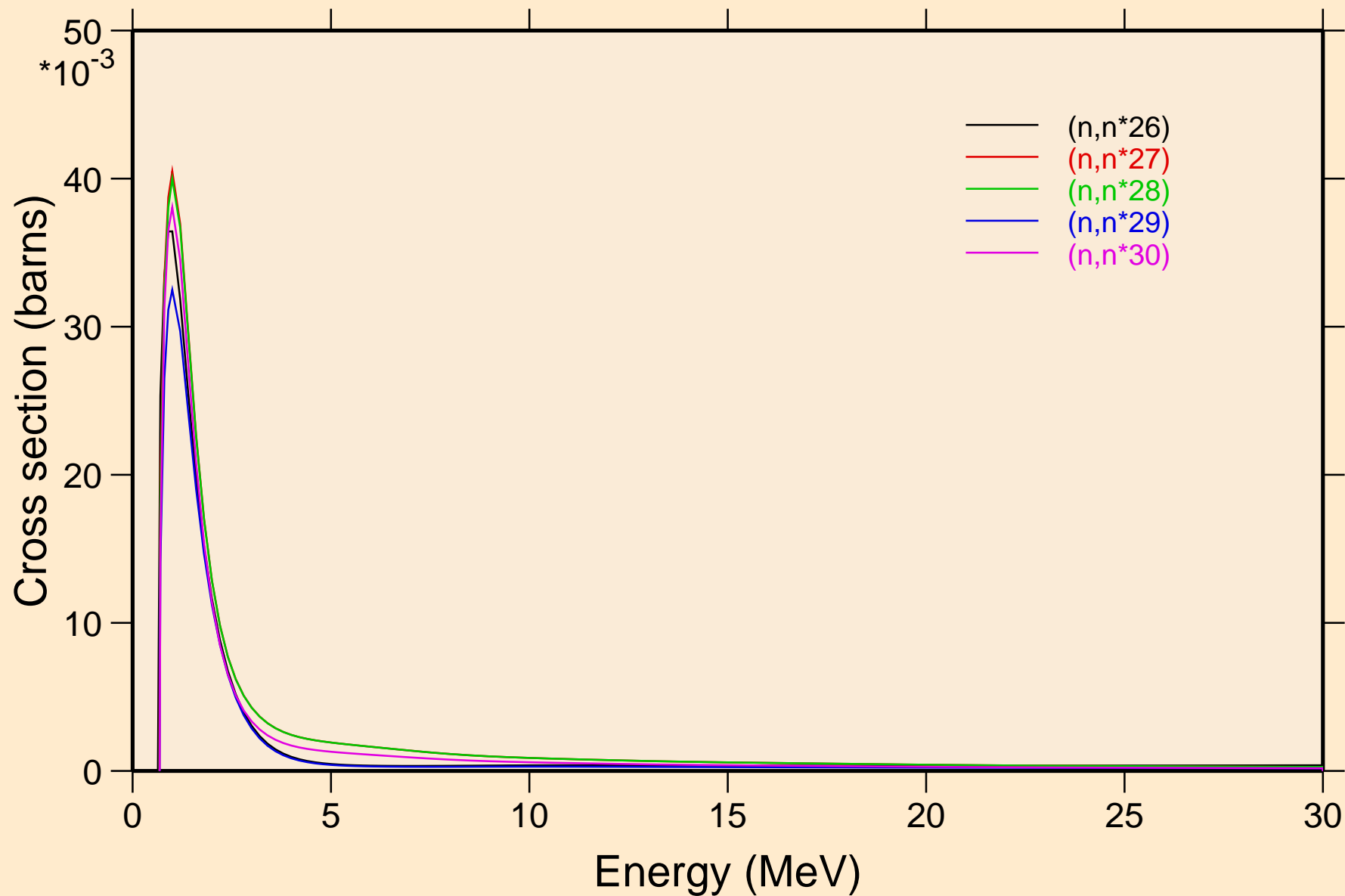


MAT=7640 ACE FILE PRODUCED AT NEA WITH NDEC  
Inelastic levels

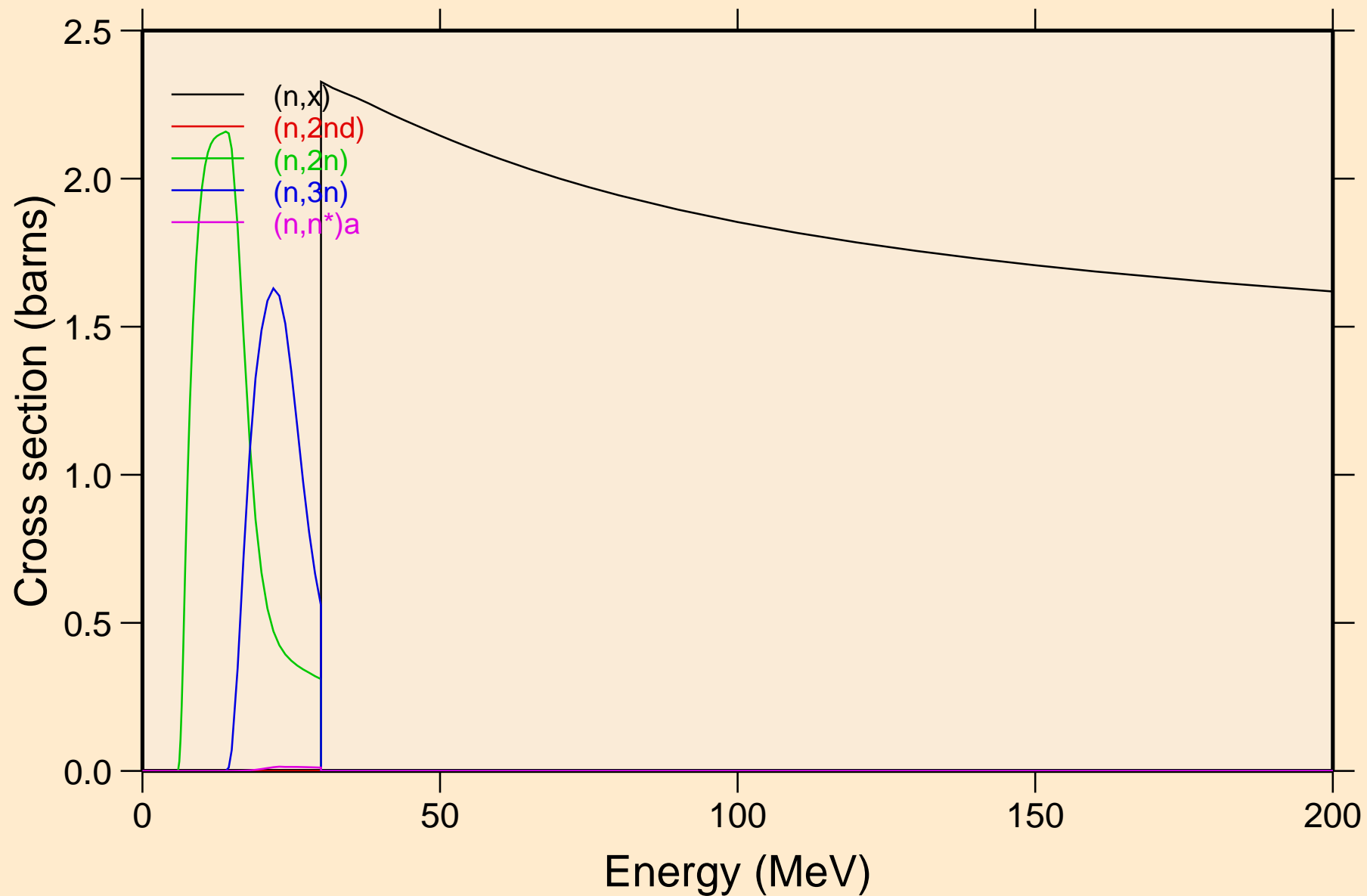




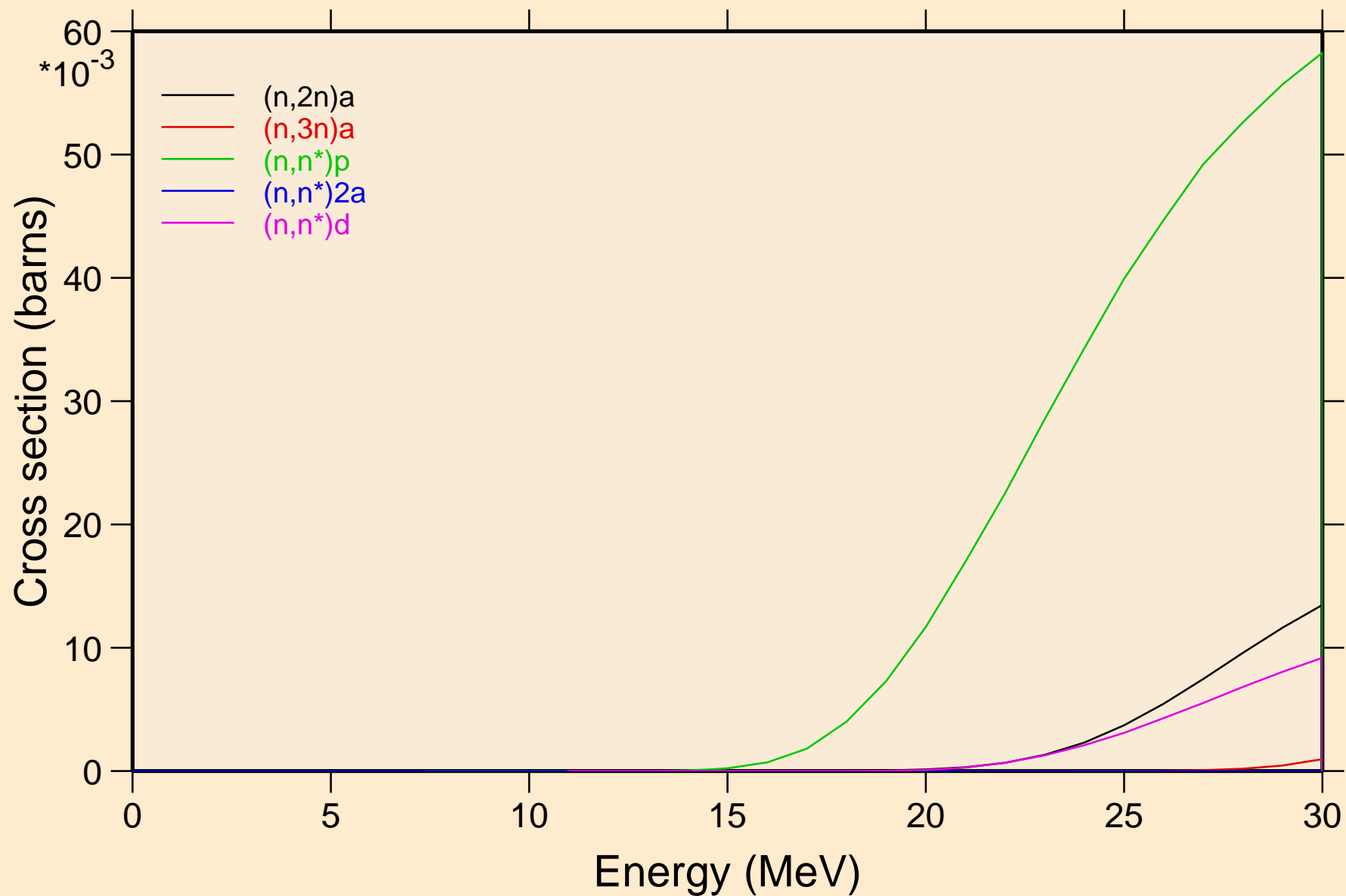
MAT=7640 ACE FILE PRODUCED AT NEA WITH NDEC  
Inelastic levels



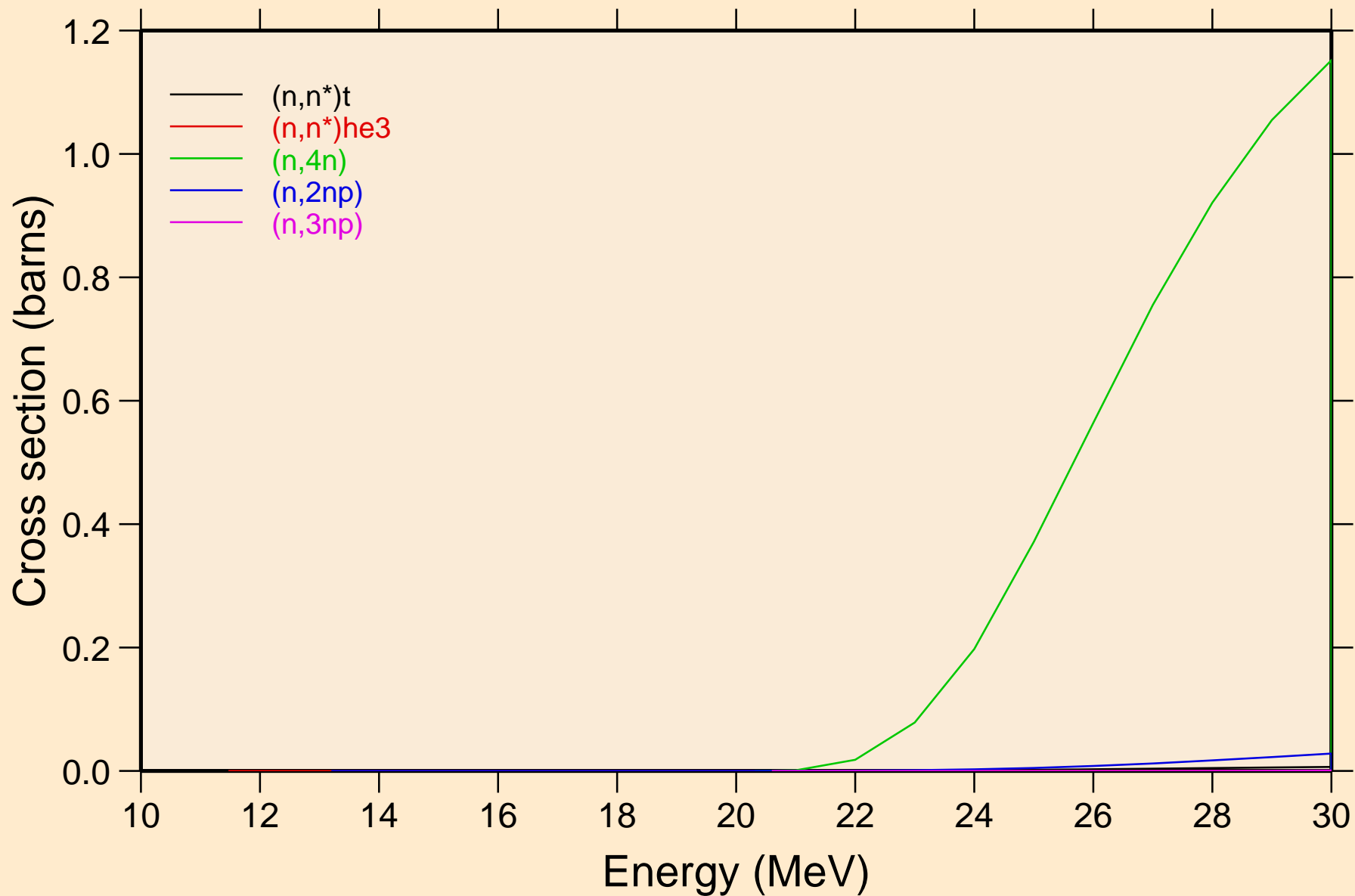
MAT=7640 ACE FILE PRODUCED AT NEA WITH NDEC  
Threshold reactions



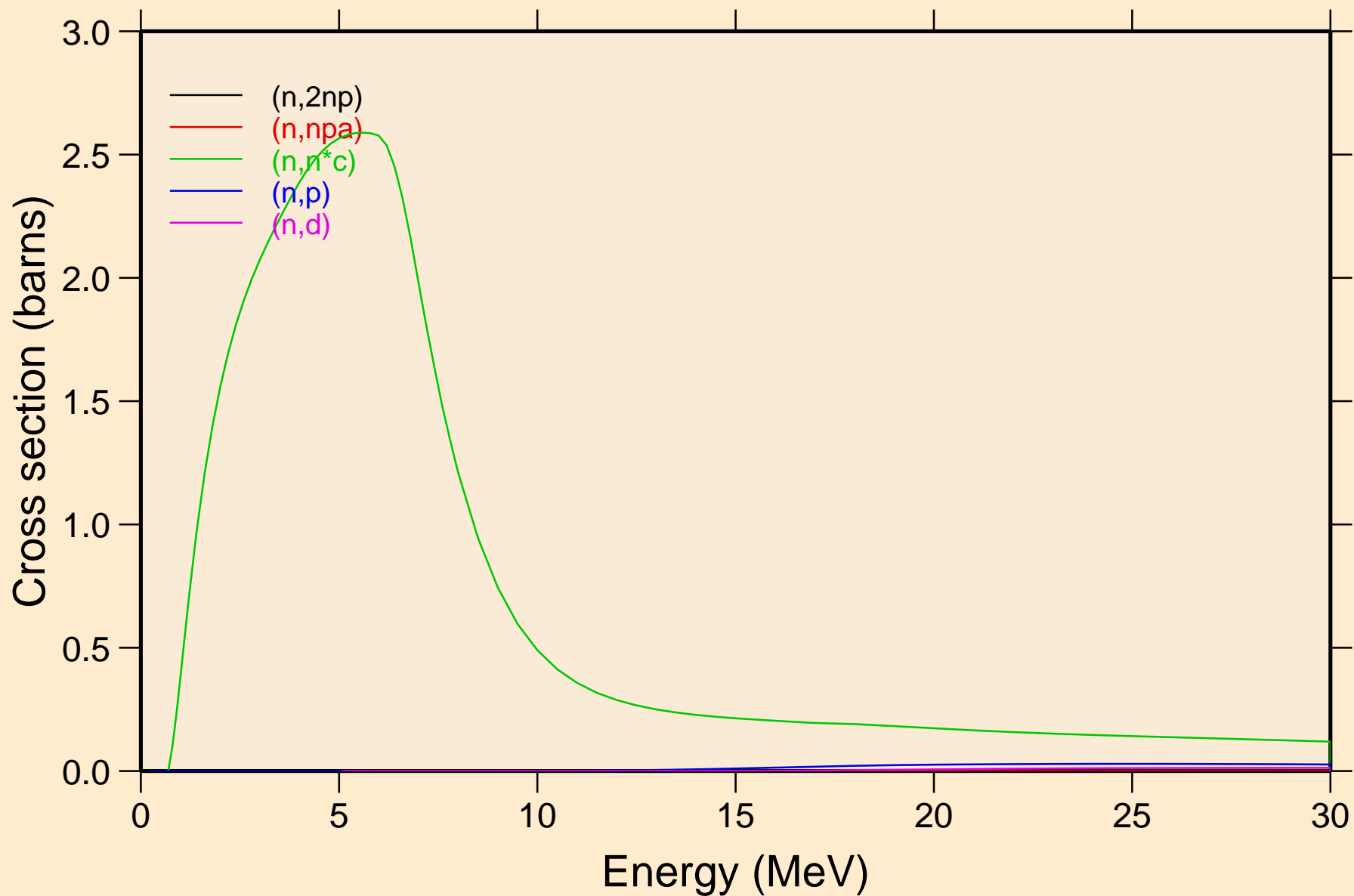
MAT=7640 ACE FILE PRODUCED AT NEA WITH NDEC  
Threshold reactions



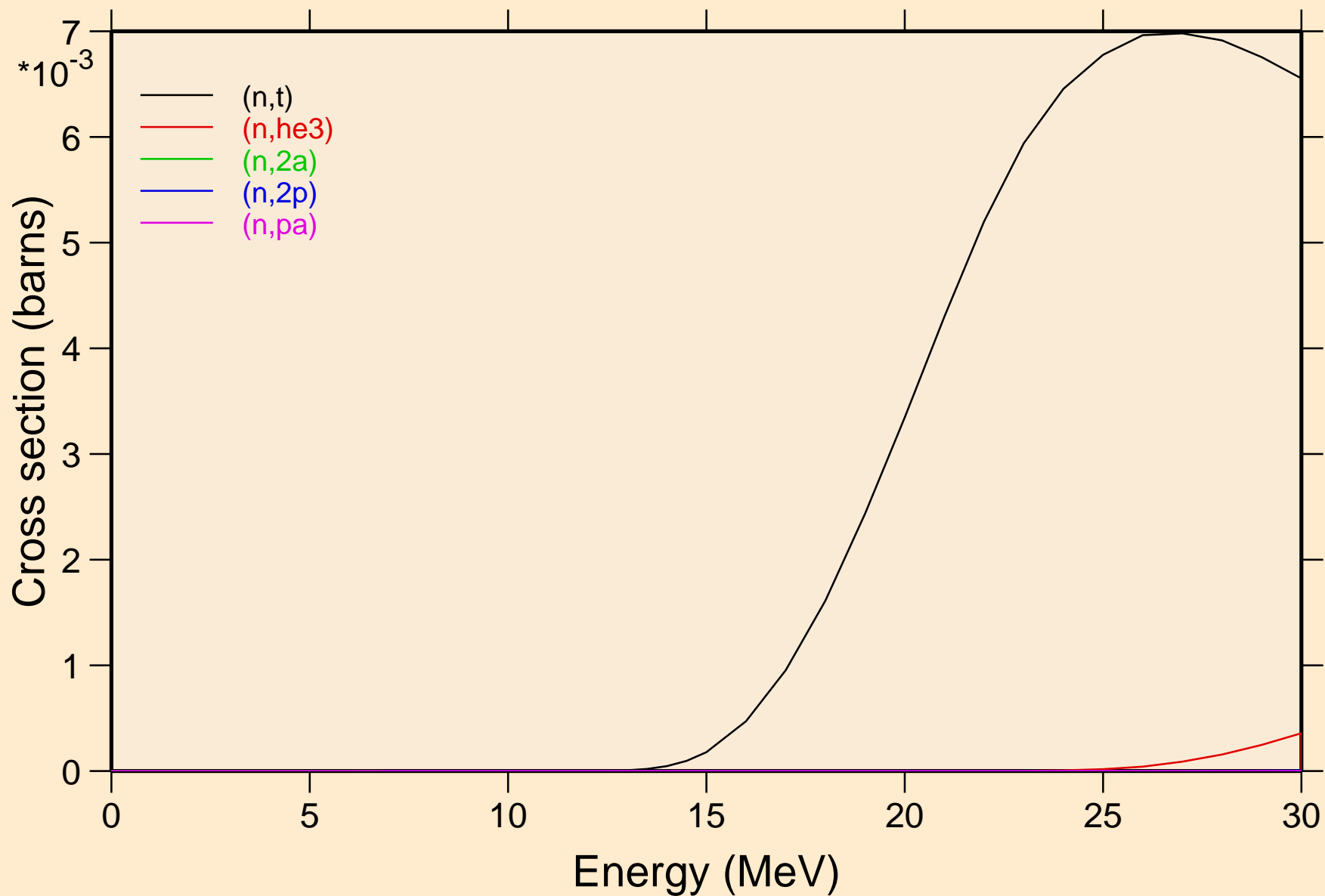
MAT=7640 ACE FILE PRODUCED AT NEA WITH NDEC  
Threshold reactions



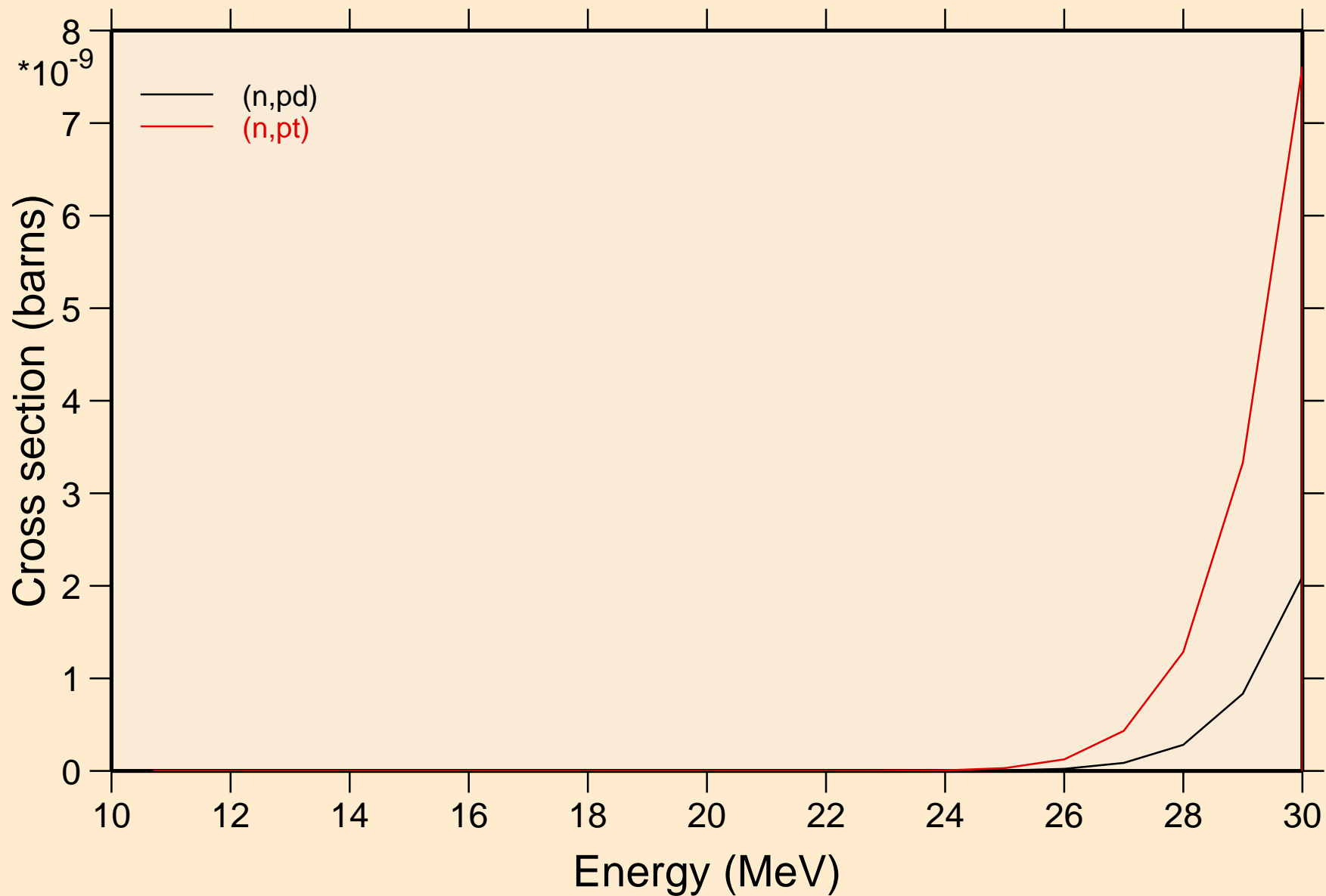
MAT=7640 ACE FILE PRODUCED AT NEA WITH NDEC  
Threshold reactions



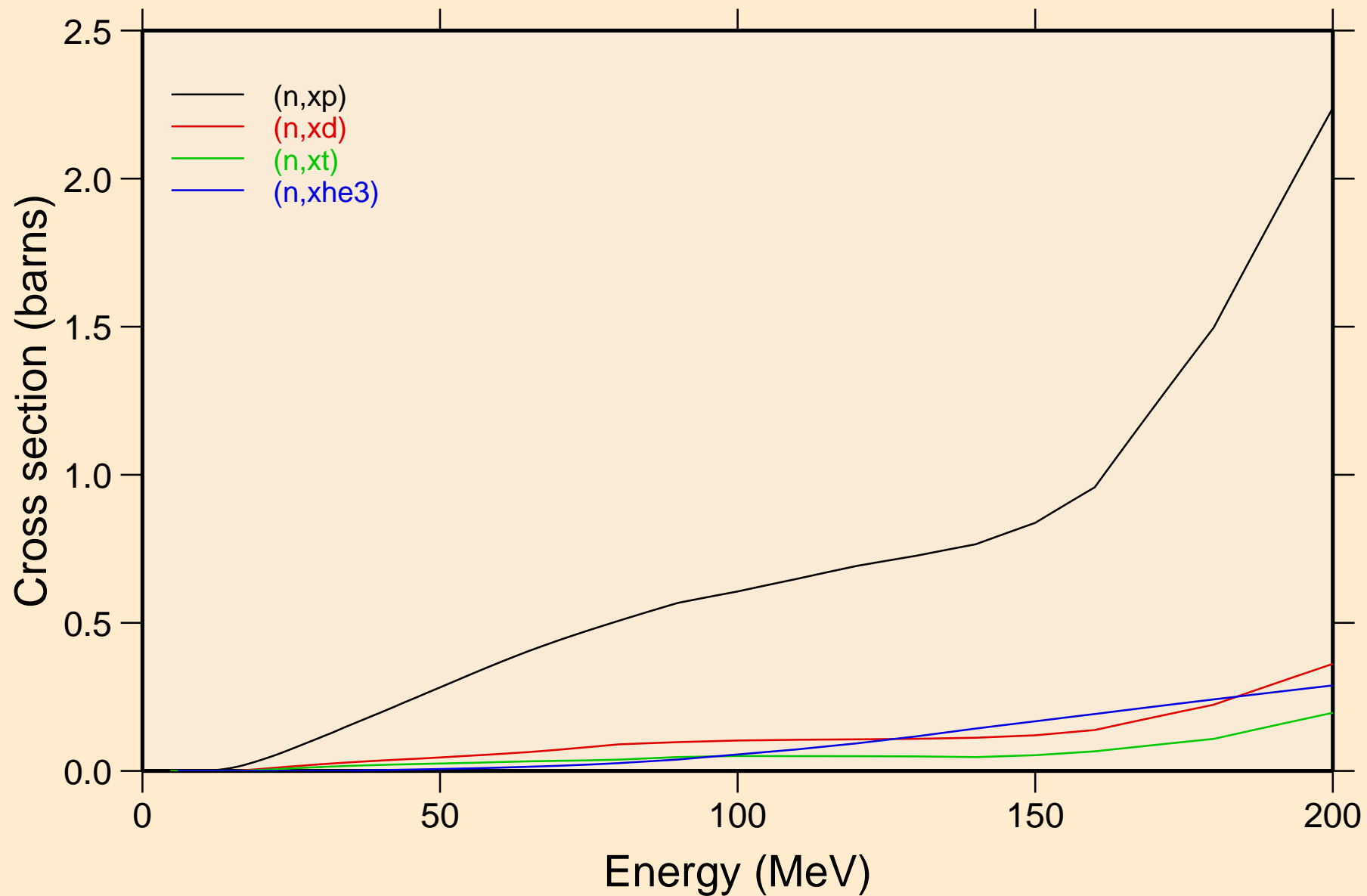
MAT=7640 ACE FILE PRODUCED AT NEA WITH NDEC  
Threshold reactions



MAT=7640 ACE FILE PRODUCED AT NEA WITH NDEC  
Threshold reactions

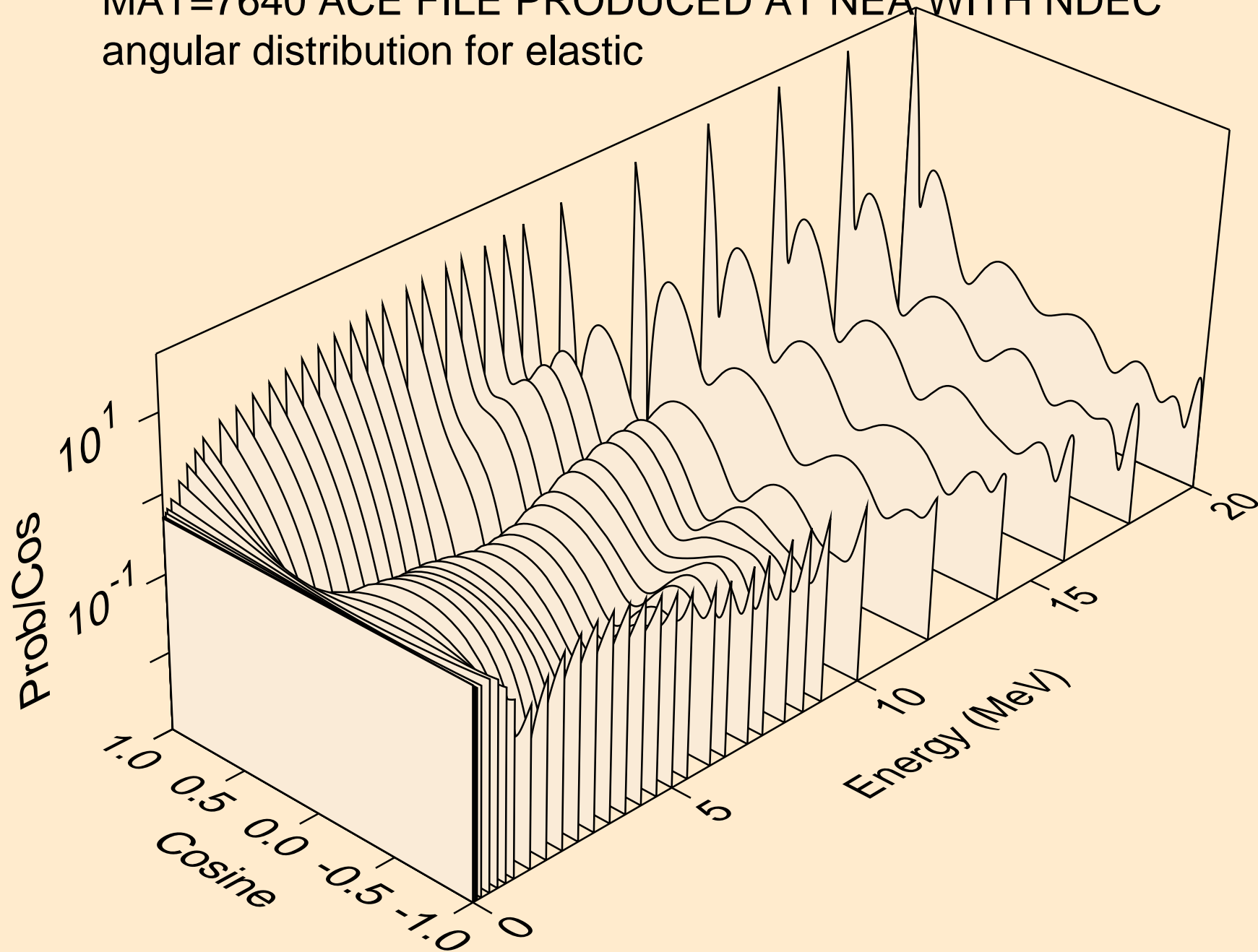


MAT=7640 ACE FILE PRODUCED AT NEA WITH NDEC  
Threshold reactions

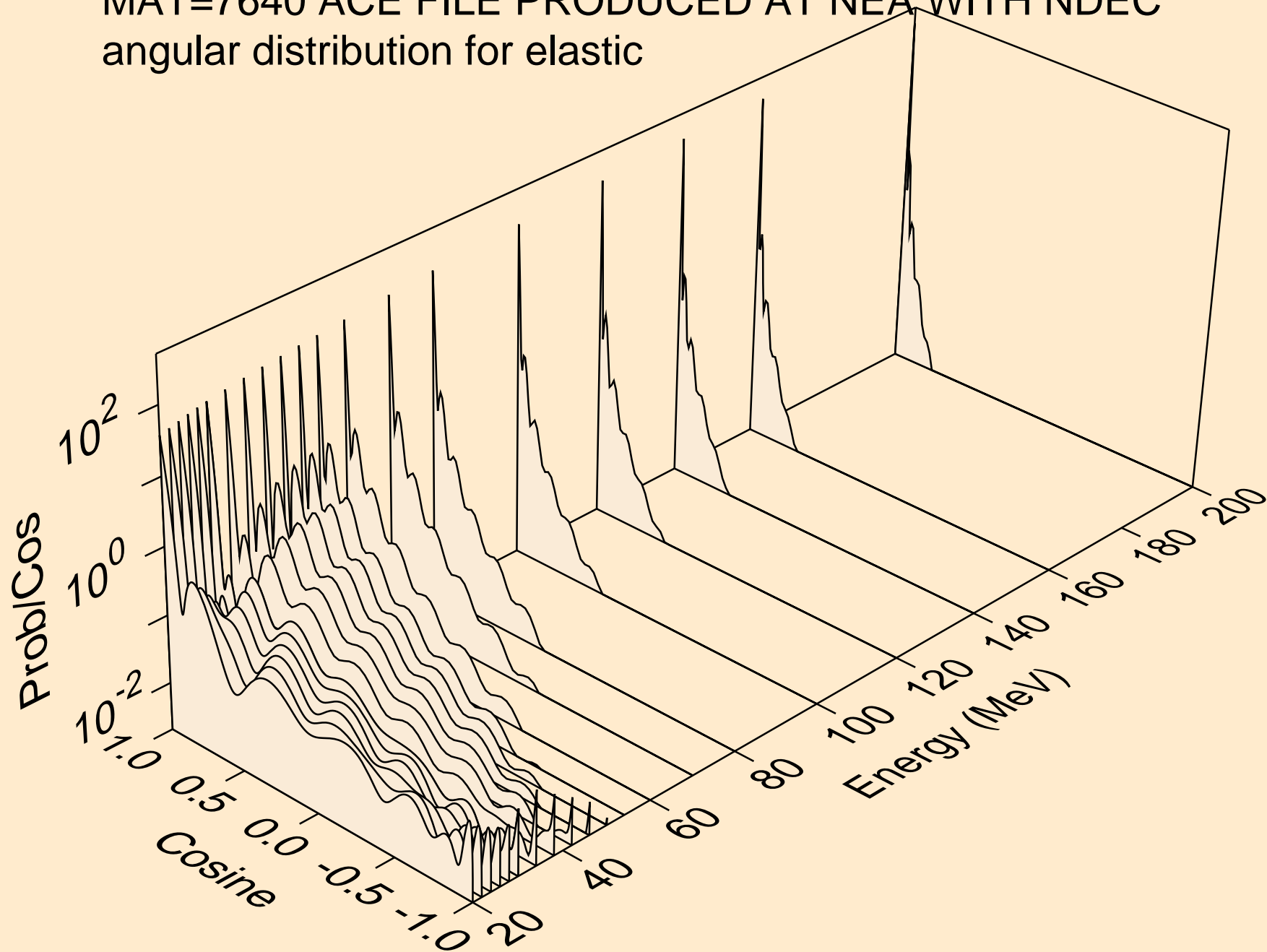




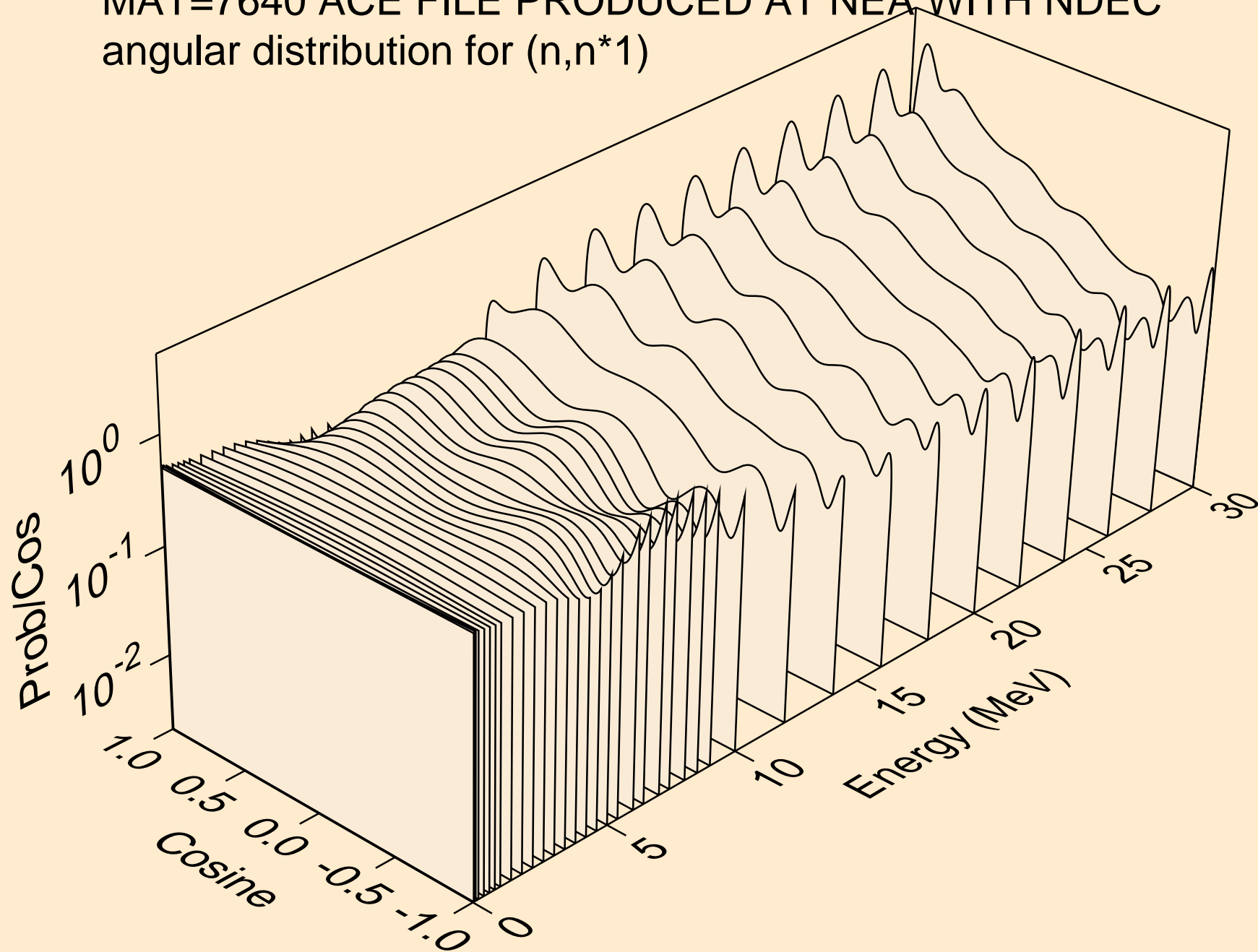
MAT=7640 ACE FILE PRODUCED AT NEA WITH NDEC  
angular distribution for elastic



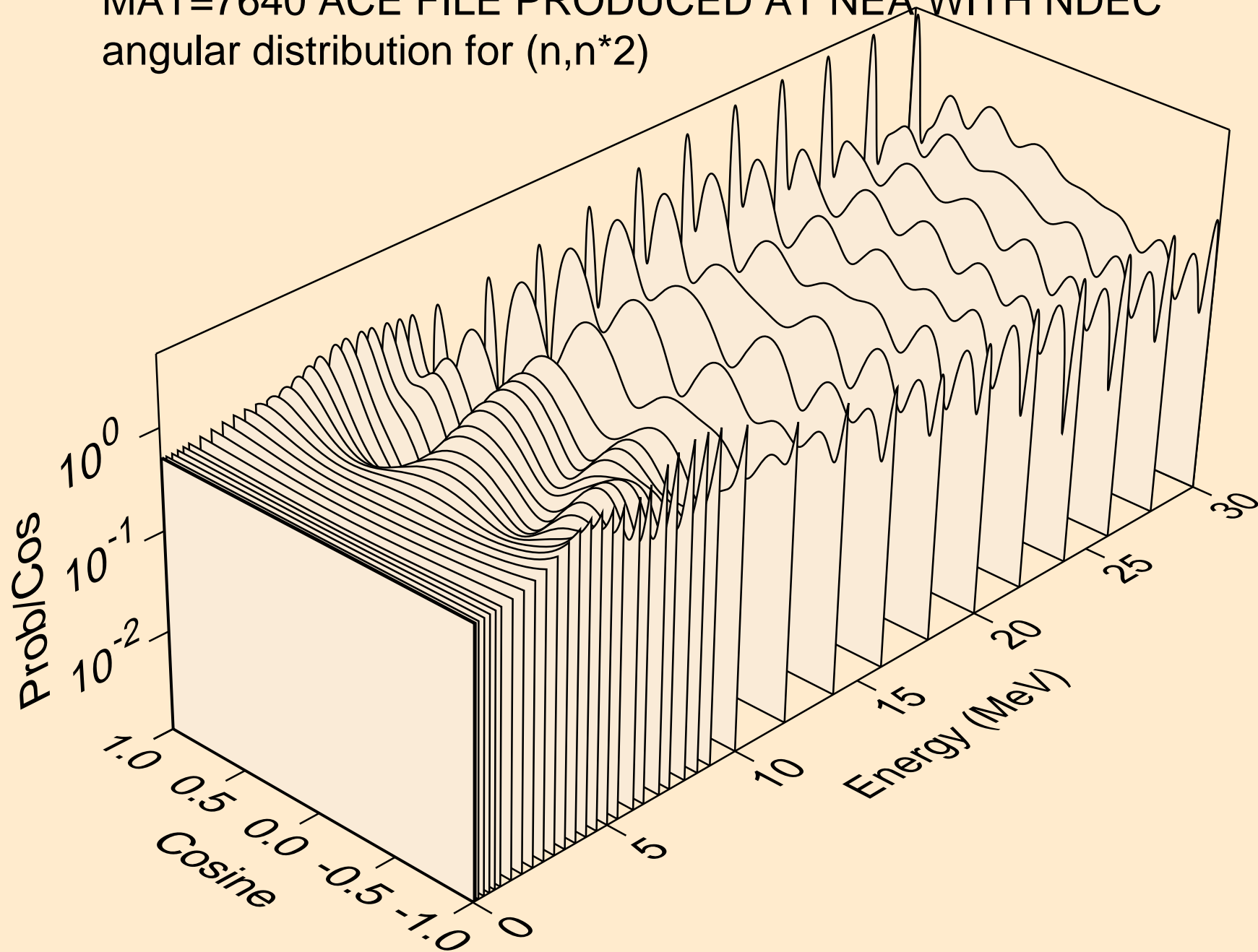
MAT=7640 ACE FILE PRODUCED AT NEA WITH NDEC  
angular distribution for elastic



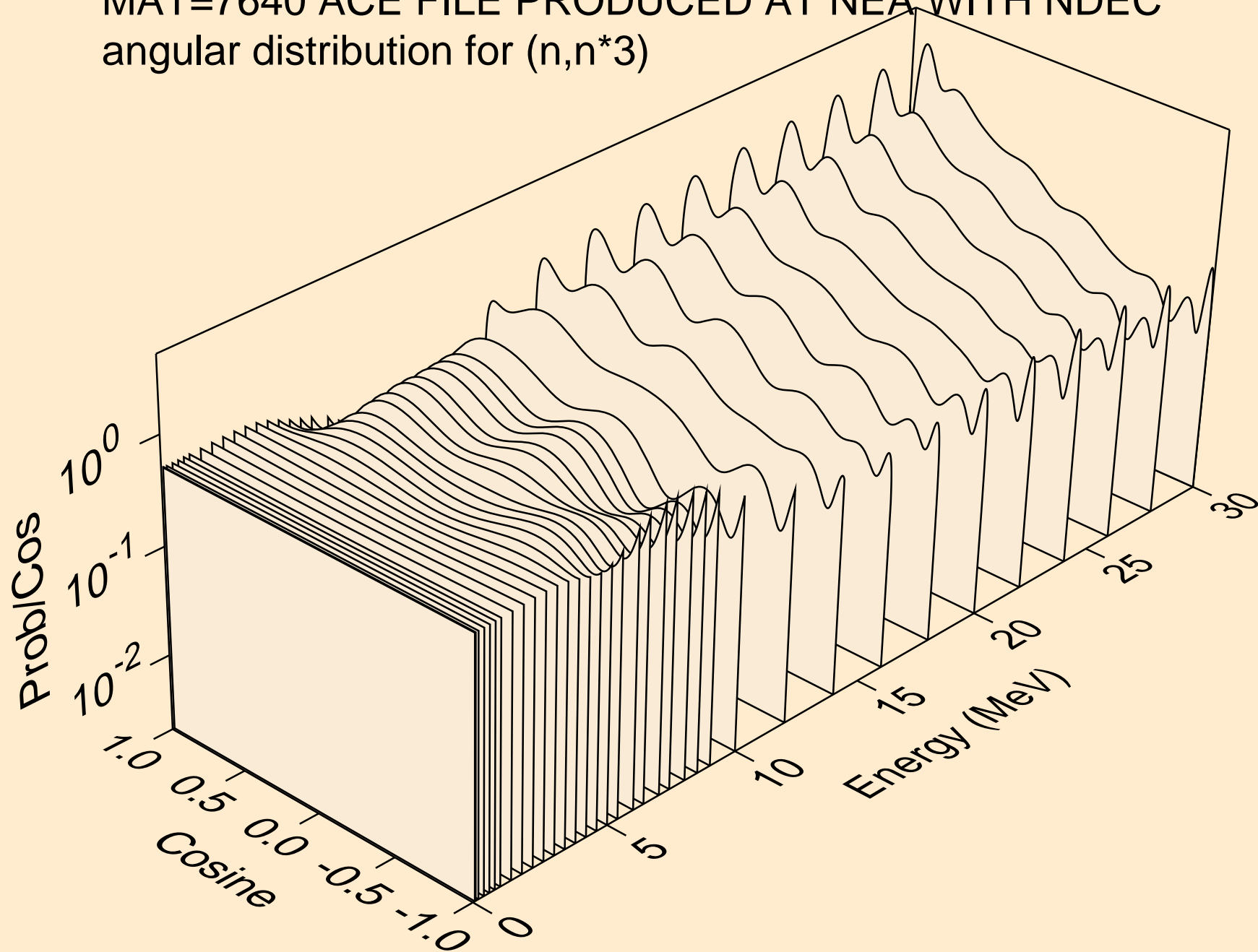
MAT=7640 ACE FILE PRODUCED AT NEA WITH NDEC  
angular distribution for (n,n\*1)



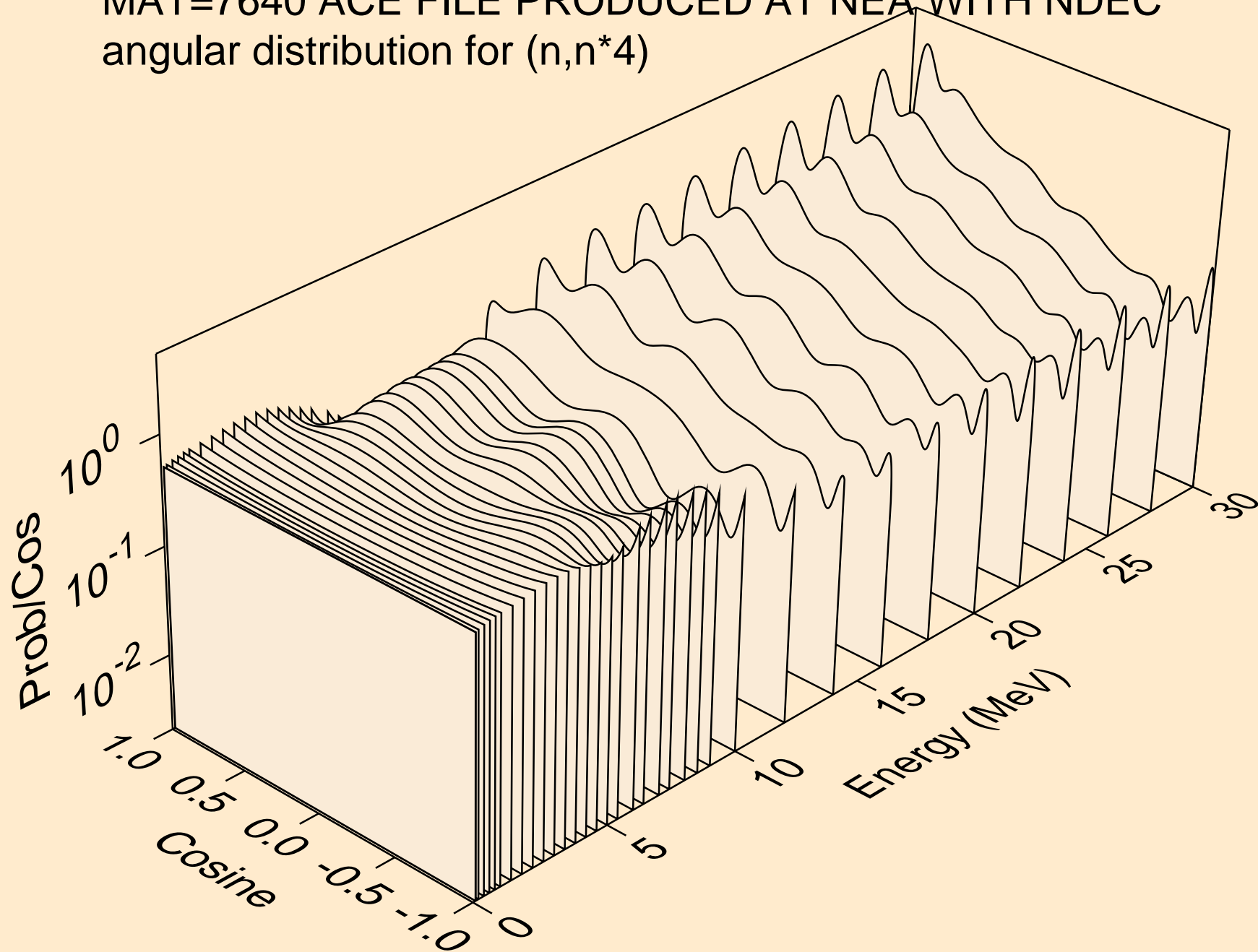
MAT=7640 ACE FILE PRODUCED AT NEA WITH NDEC  
angular distribution for (n,n\*2)



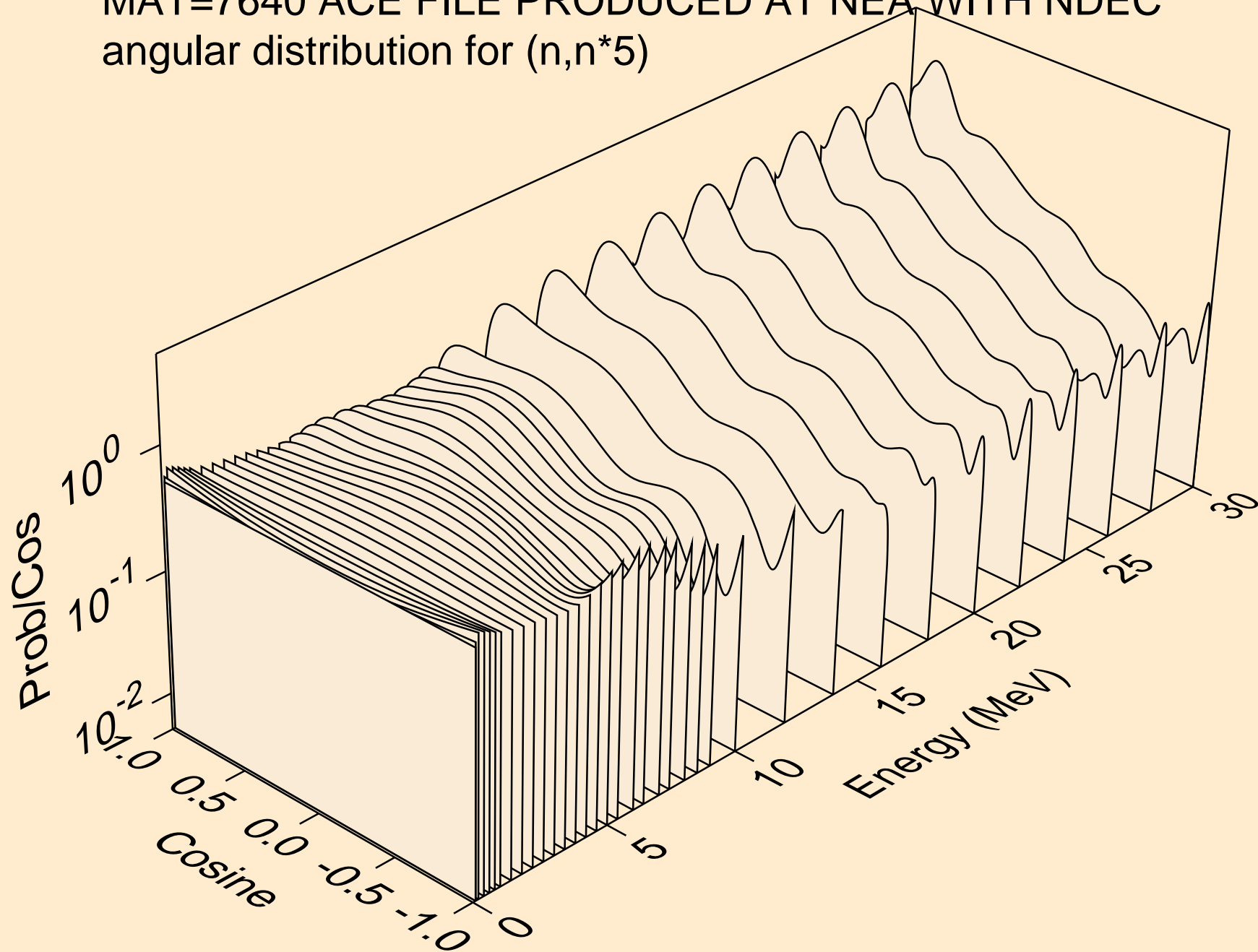
MAT=7640 ACE FILE PRODUCED AT NEA WITH NDEC  
angular distribution for (n,n\*3)



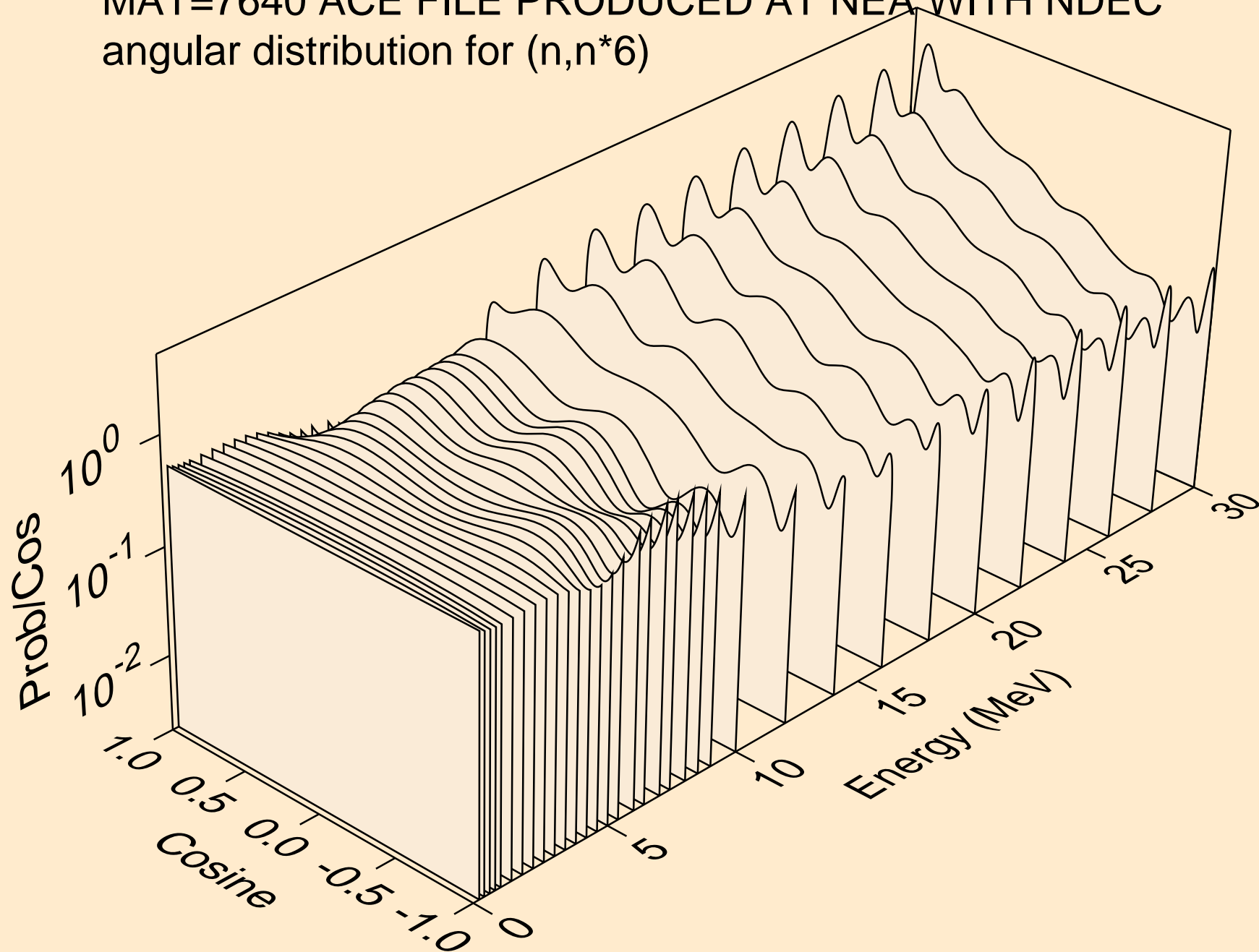
MAT=7640 ACE FILE PRODUCED AT NEA WITH NDEC  
angular distribution for (n,n\*4)



MAT=7640 ACE FILE PRODUCED AT NEA WITH NDEC  
angular distribution for (n,n\*5)

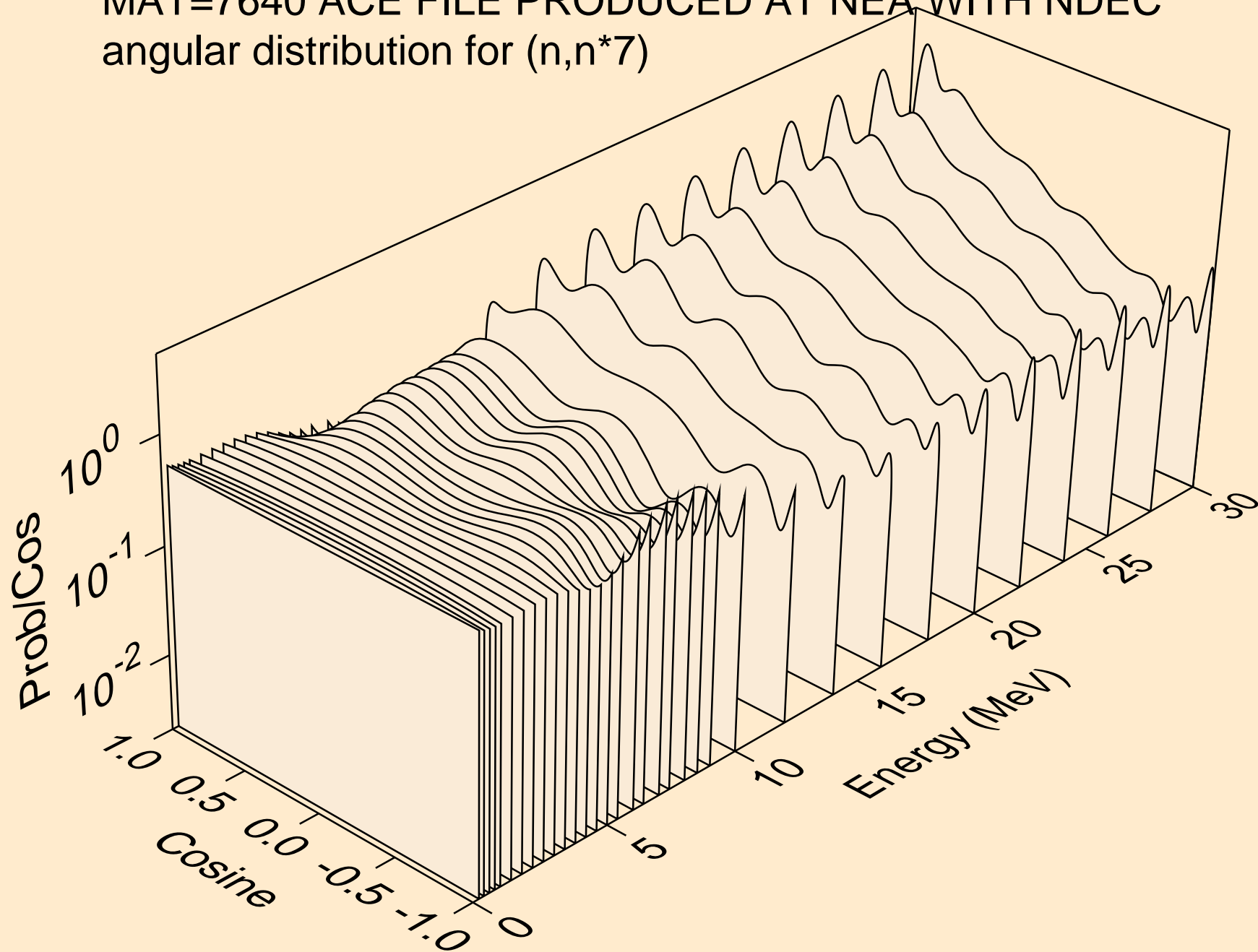


MAT=7640 ACE FILE PRODUCED AT NEA WITH NDEC  
angular distribution for (n,n\*6)

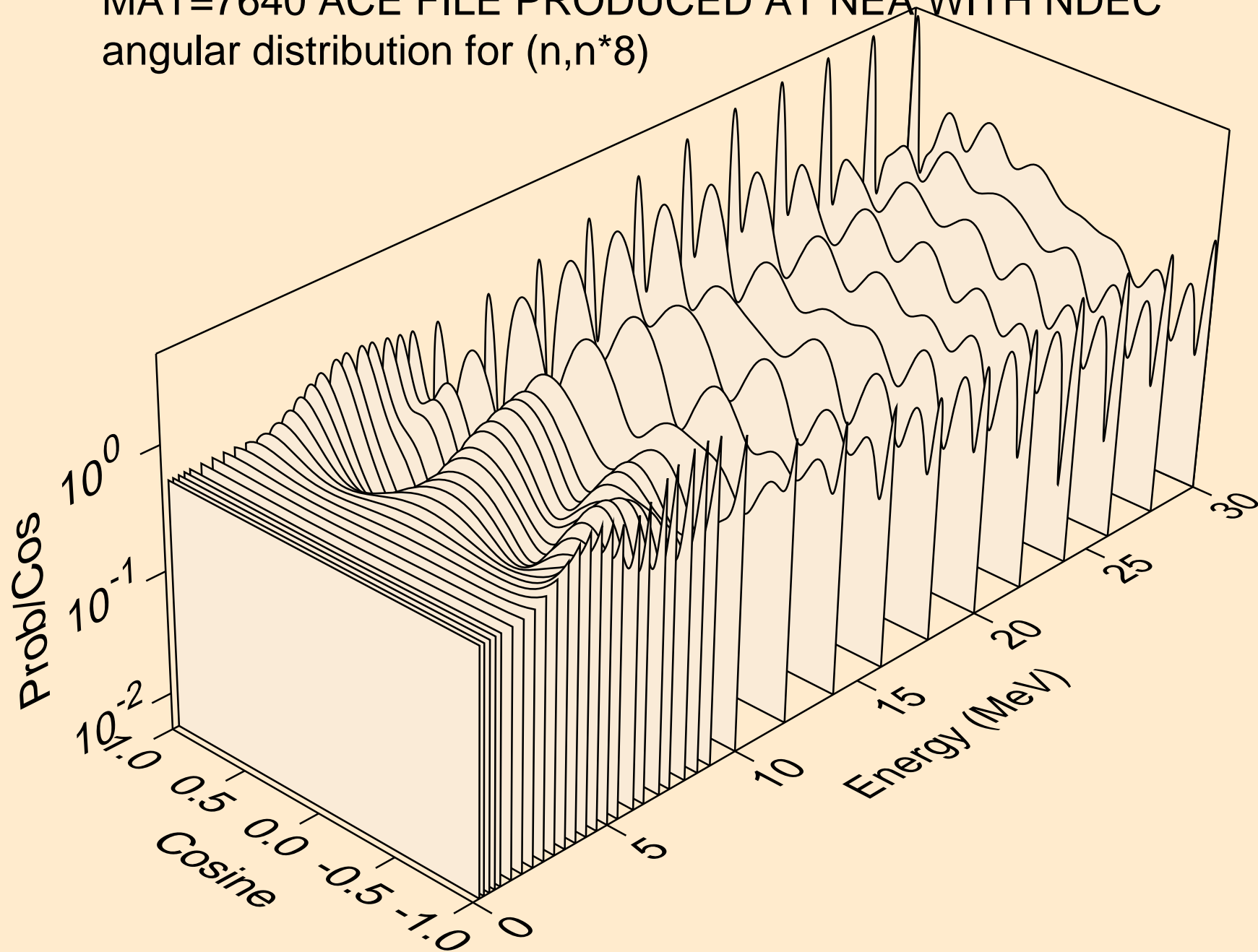




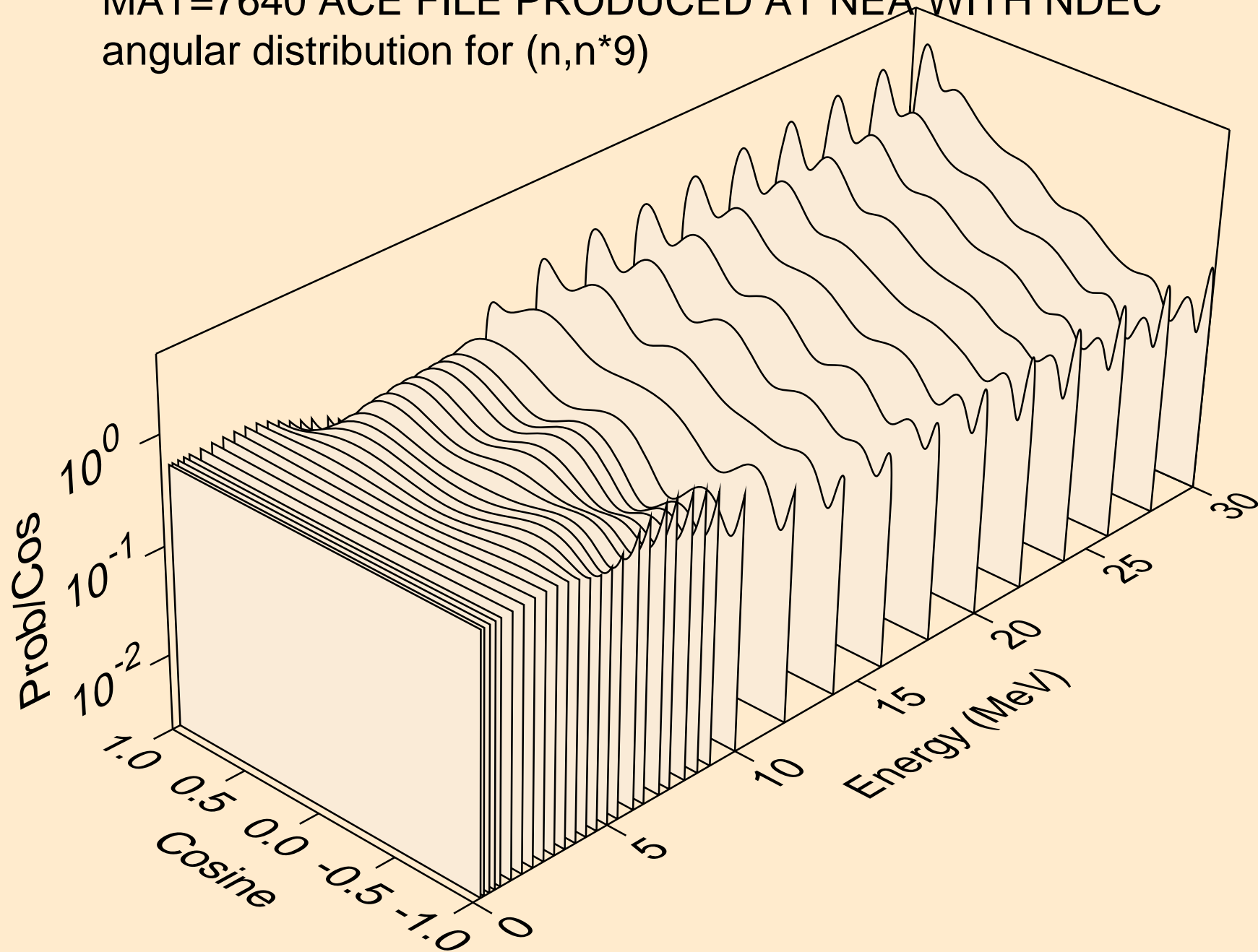
MAT=7640 ACE FILE PRODUCED AT NEA WITH NDEC  
angular distribution for (n,n\*7)



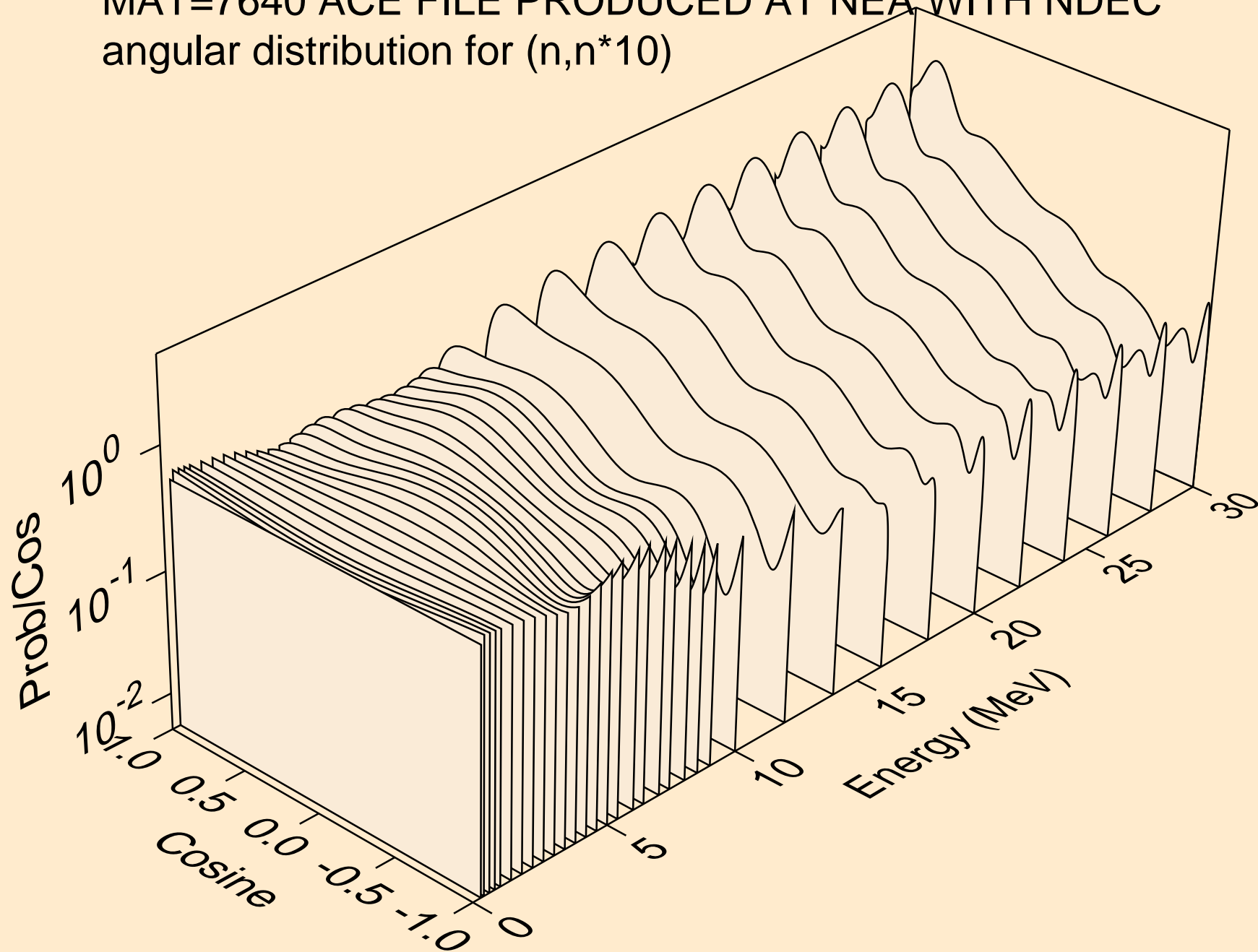
MAT=7640 ACE FILE PRODUCED AT NEA WITH NDEC  
angular distribution for (n,n\*8)



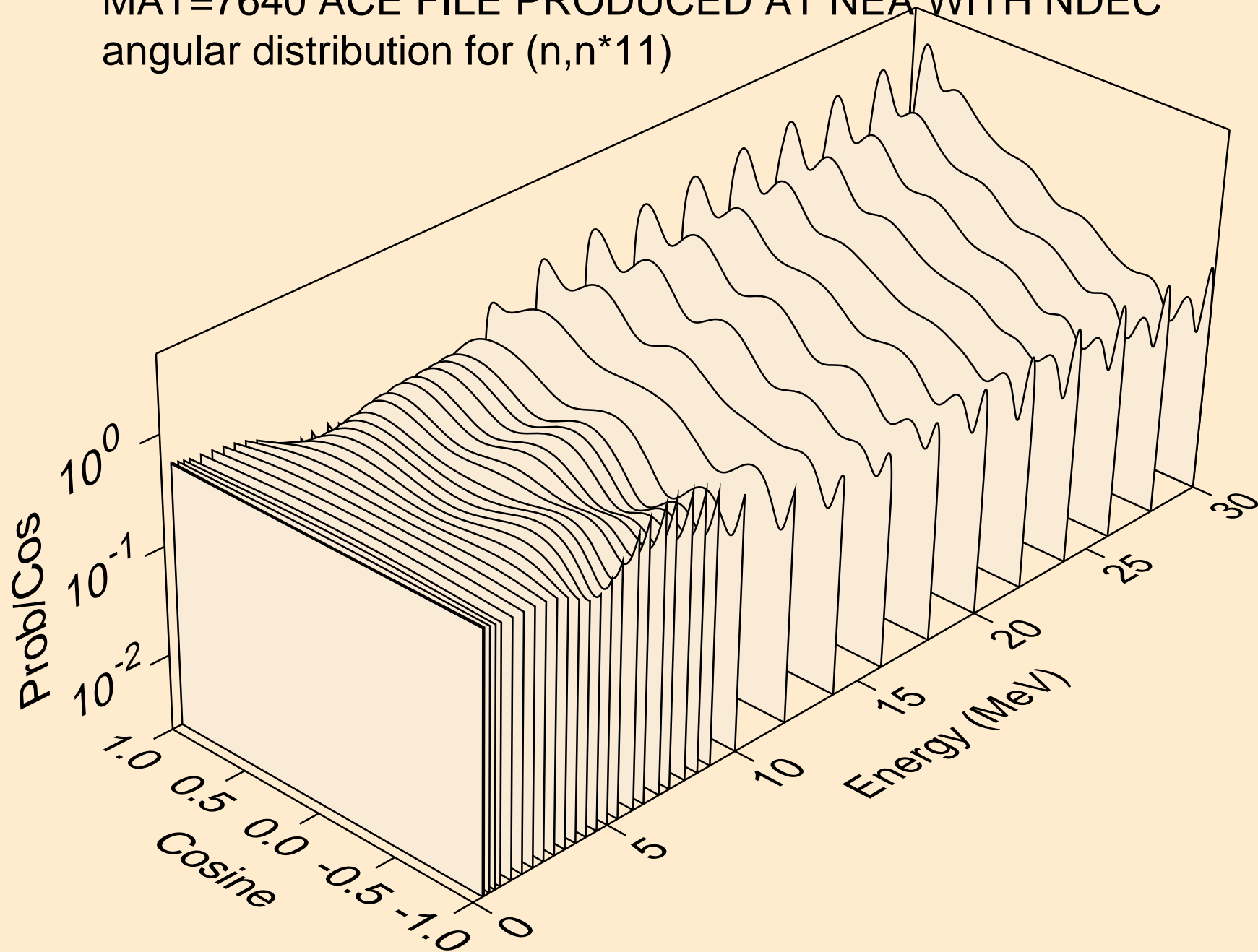
MAT=7640 ACE FILE PRODUCED AT NEA WITH NDEC  
angular distribution for (n,n\*9)



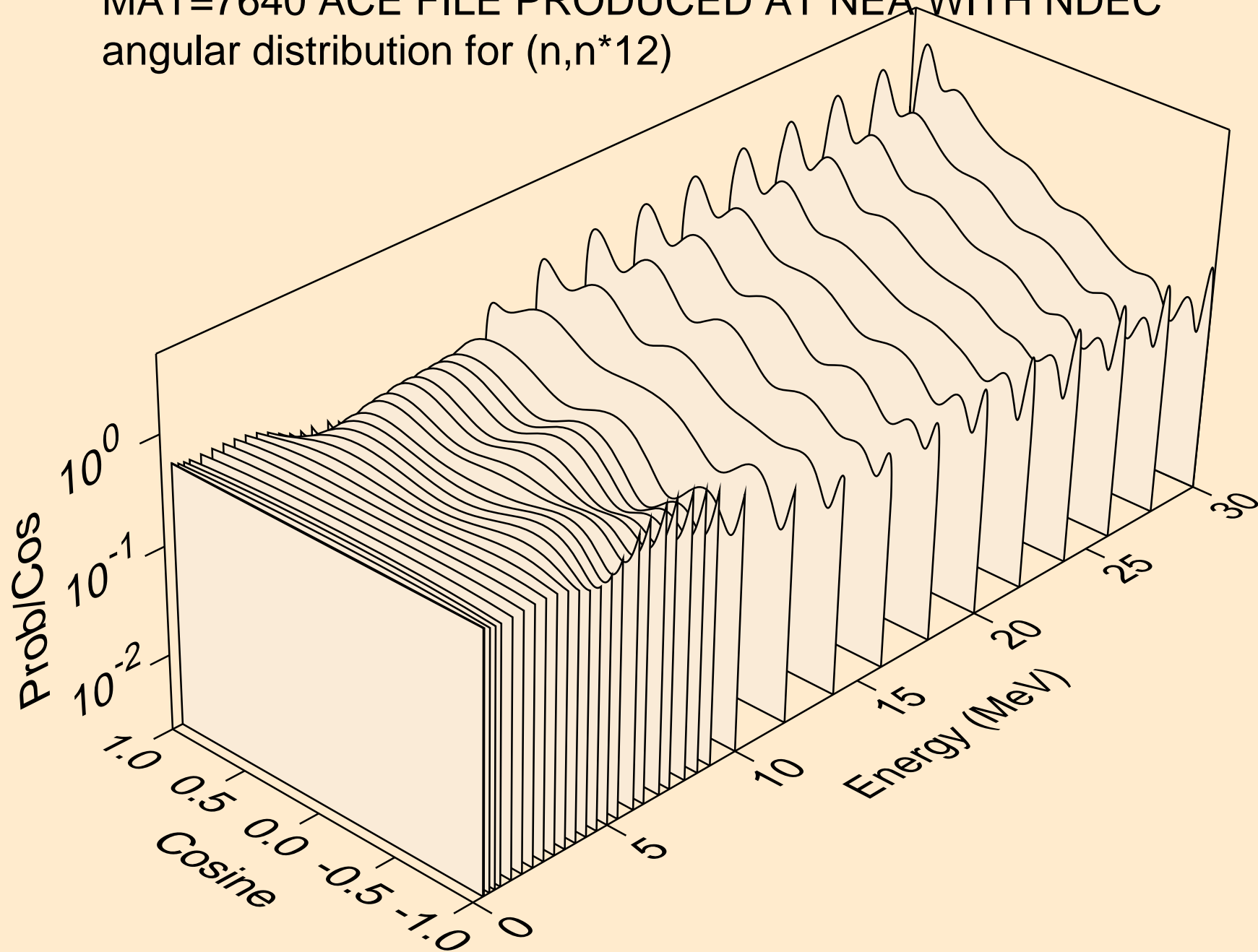
MAT=7640 ACE FILE PRODUCED AT NEA WITH NDEC  
angular distribution for (n,n\*10)



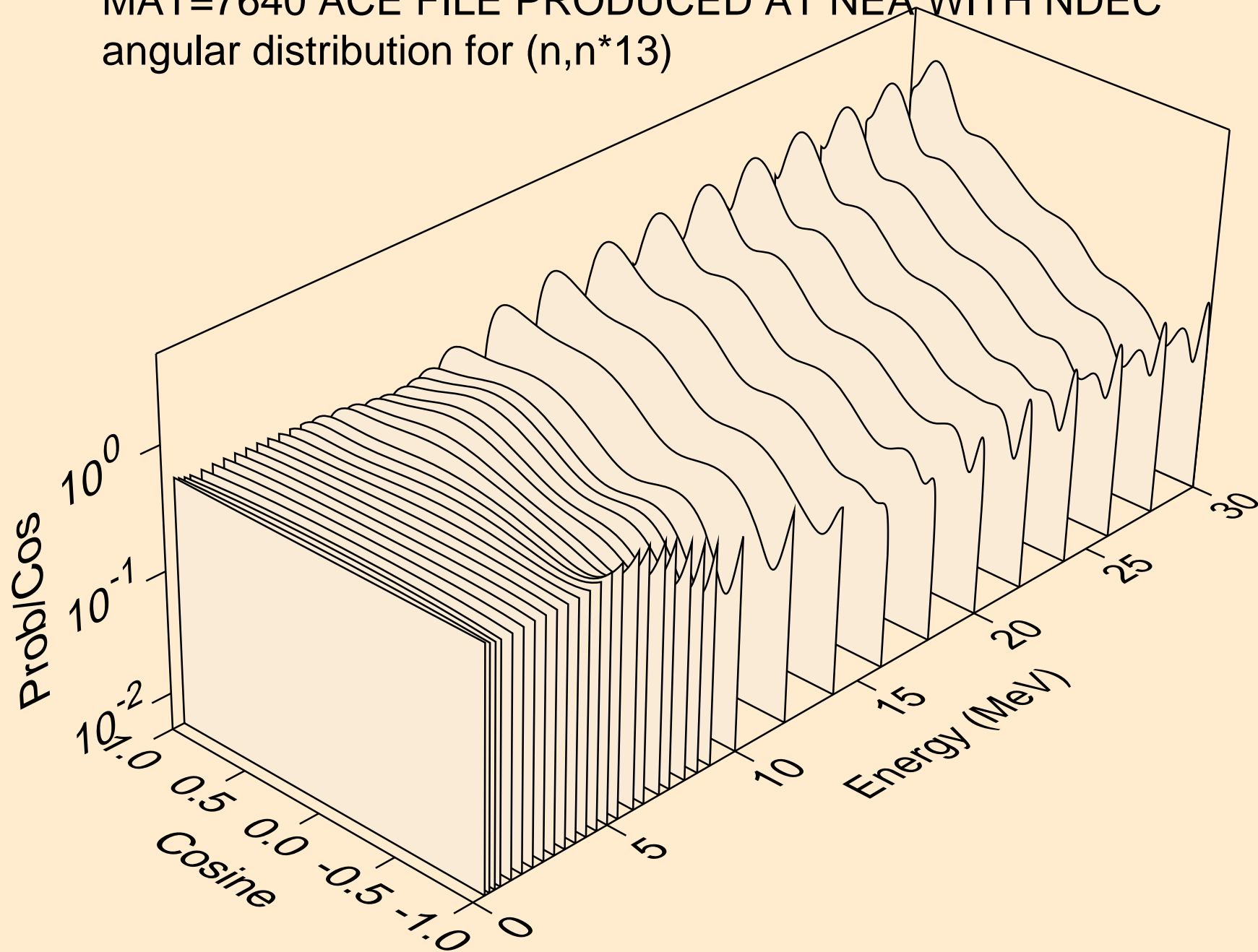
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angular distribution for (n,n\*11)



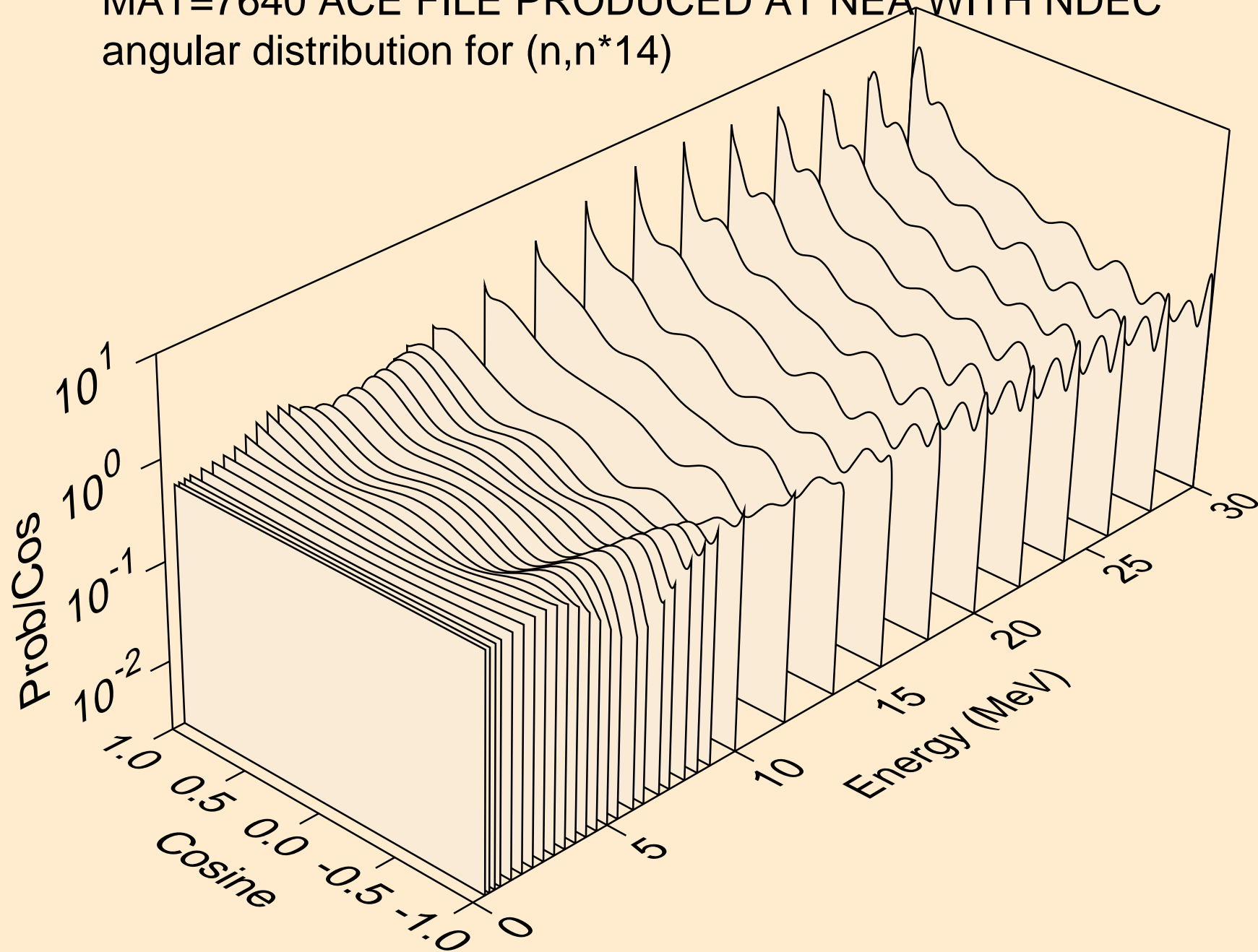
MAT=7640 ACE FILE PRODUCED AT NEA WITH NDEC  
angular distribution for (n,n\*12)



MAT=7640 ACE FILE PRODUCED AT NEA WITH NDEC  
angular distribution for (n,n\*13)

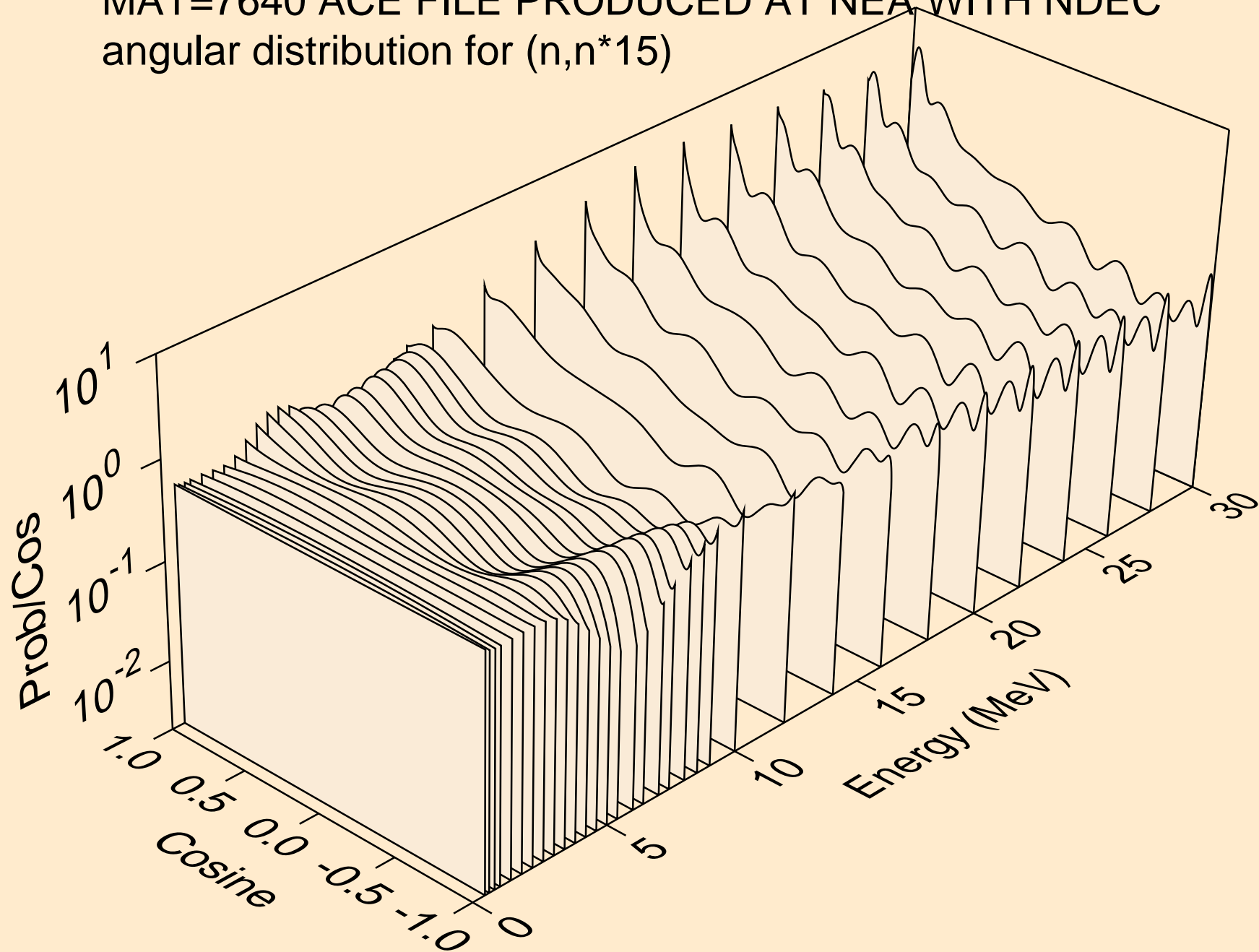


MAT=7640 ACE FILE PRODUCED AT NEA WITH NDEC  
angular distribution for (n,n\*14)

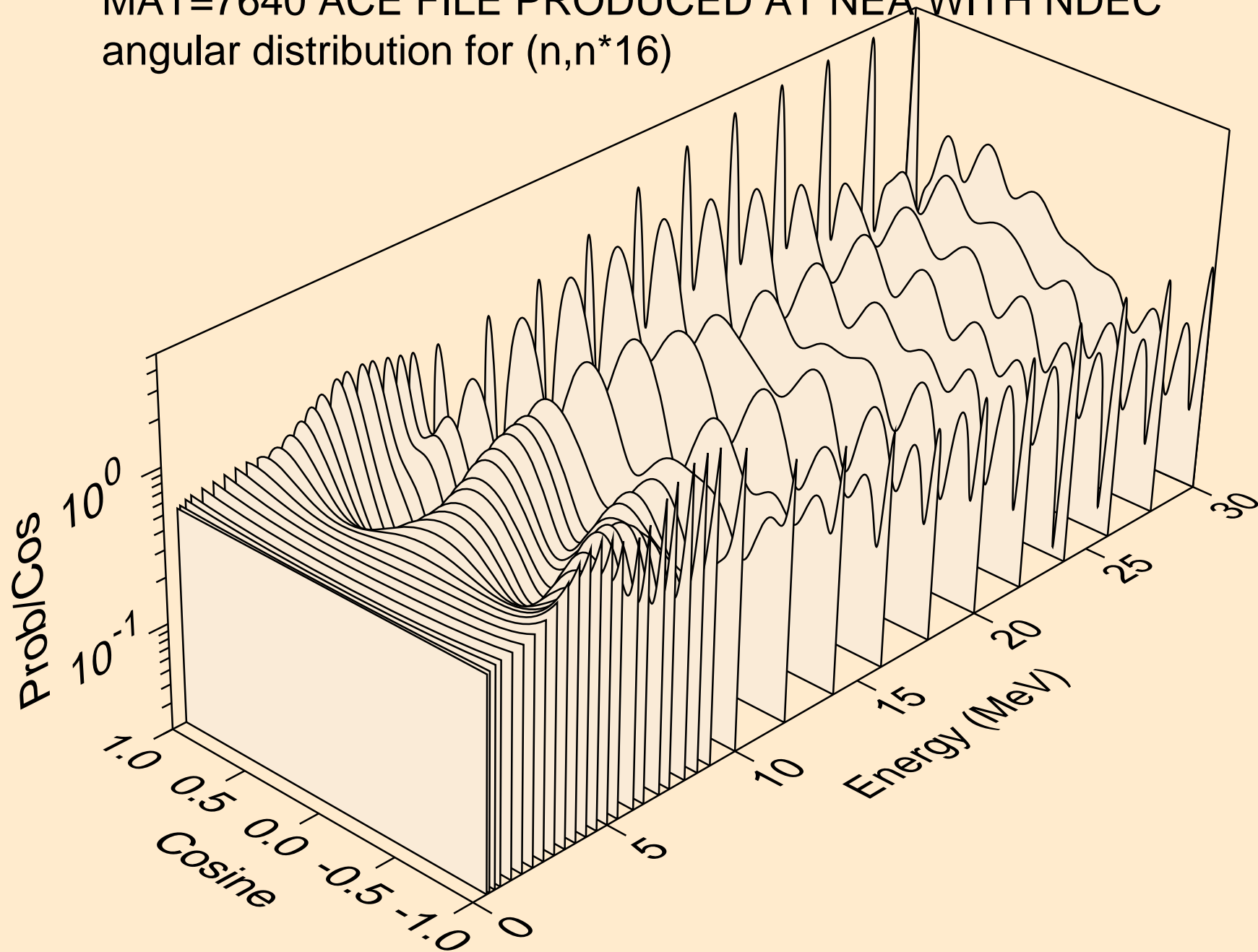




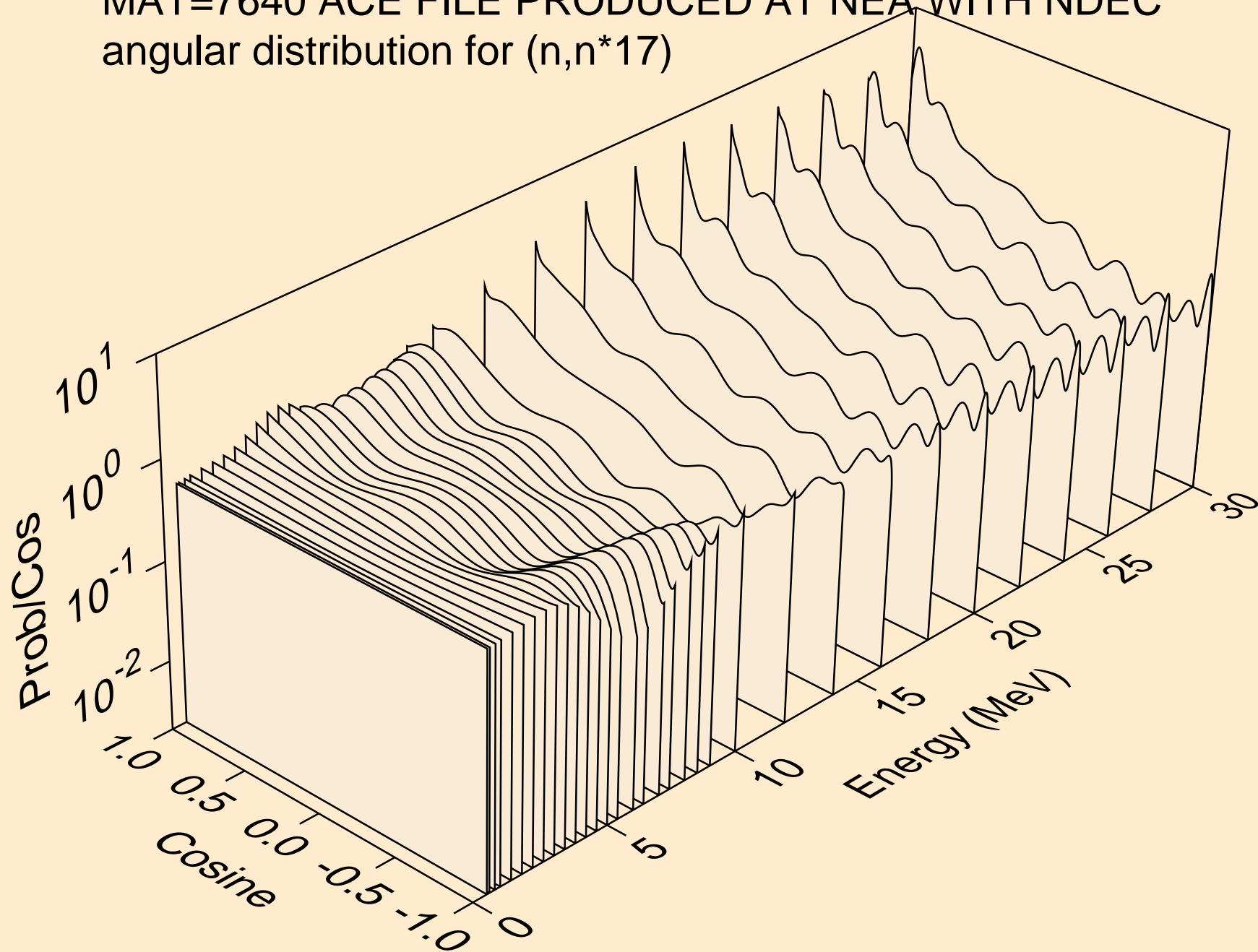
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angular distribution for (n,n\*15)



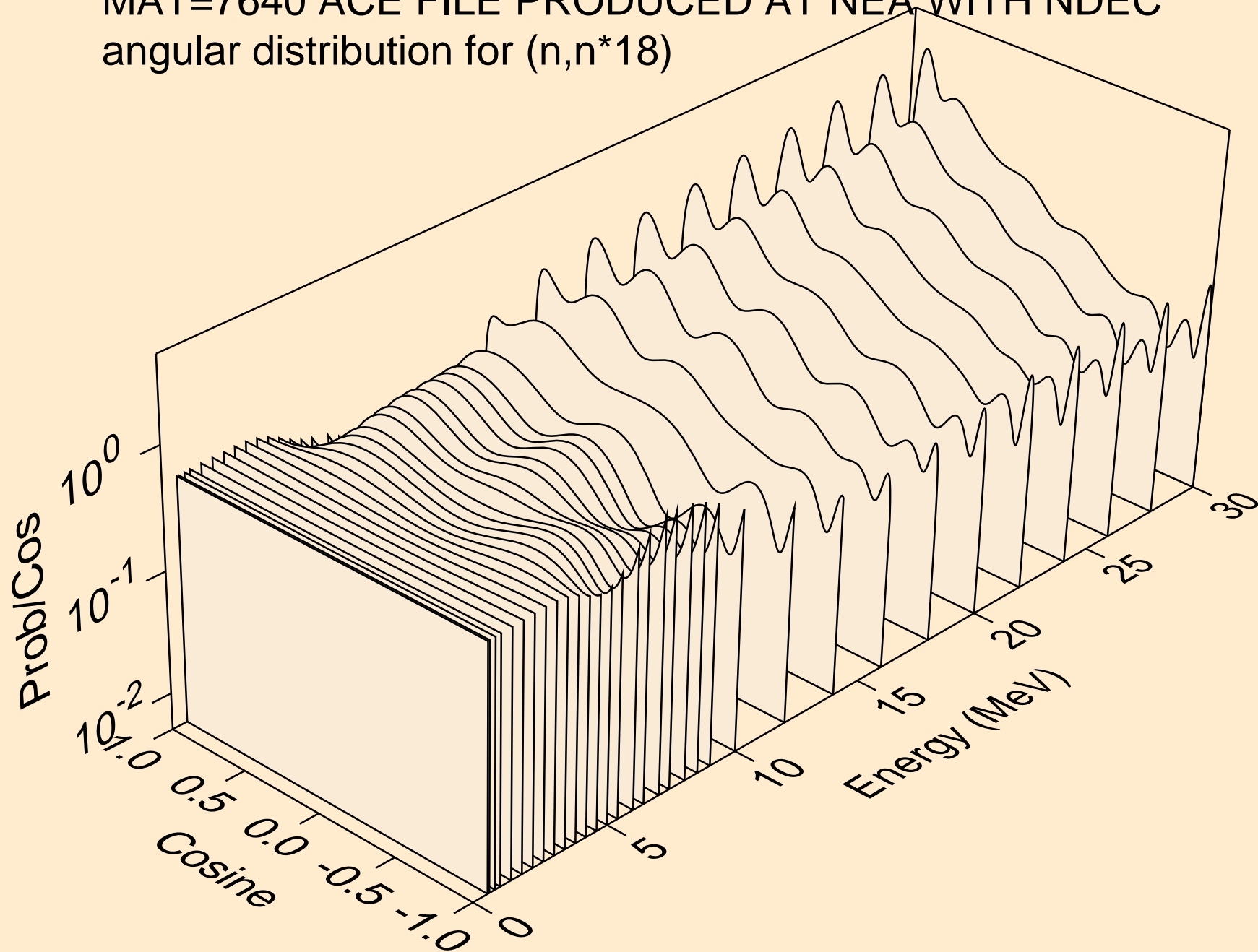
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angular distribution for (n,n\*16)



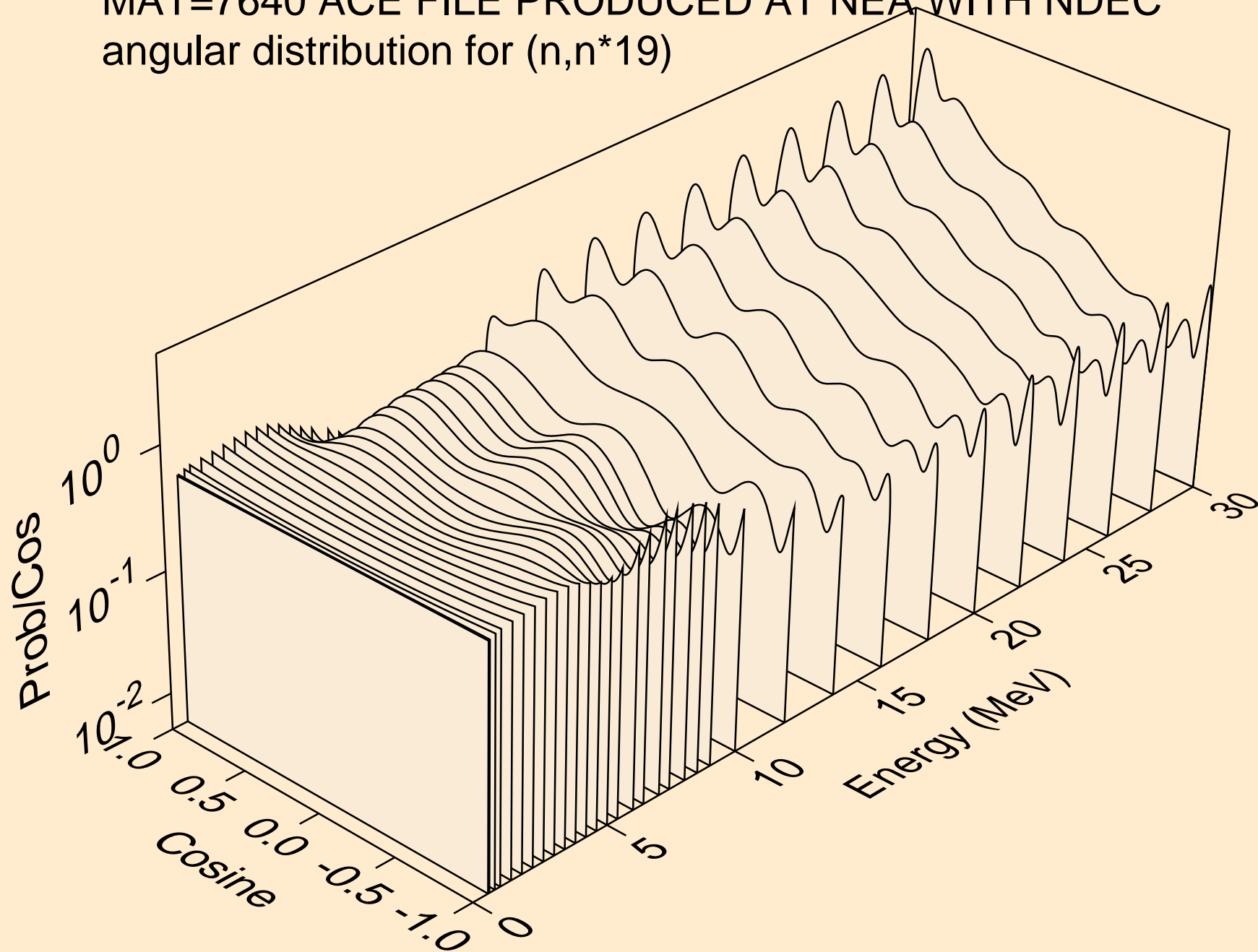
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angular distribution for (n,n\*17)



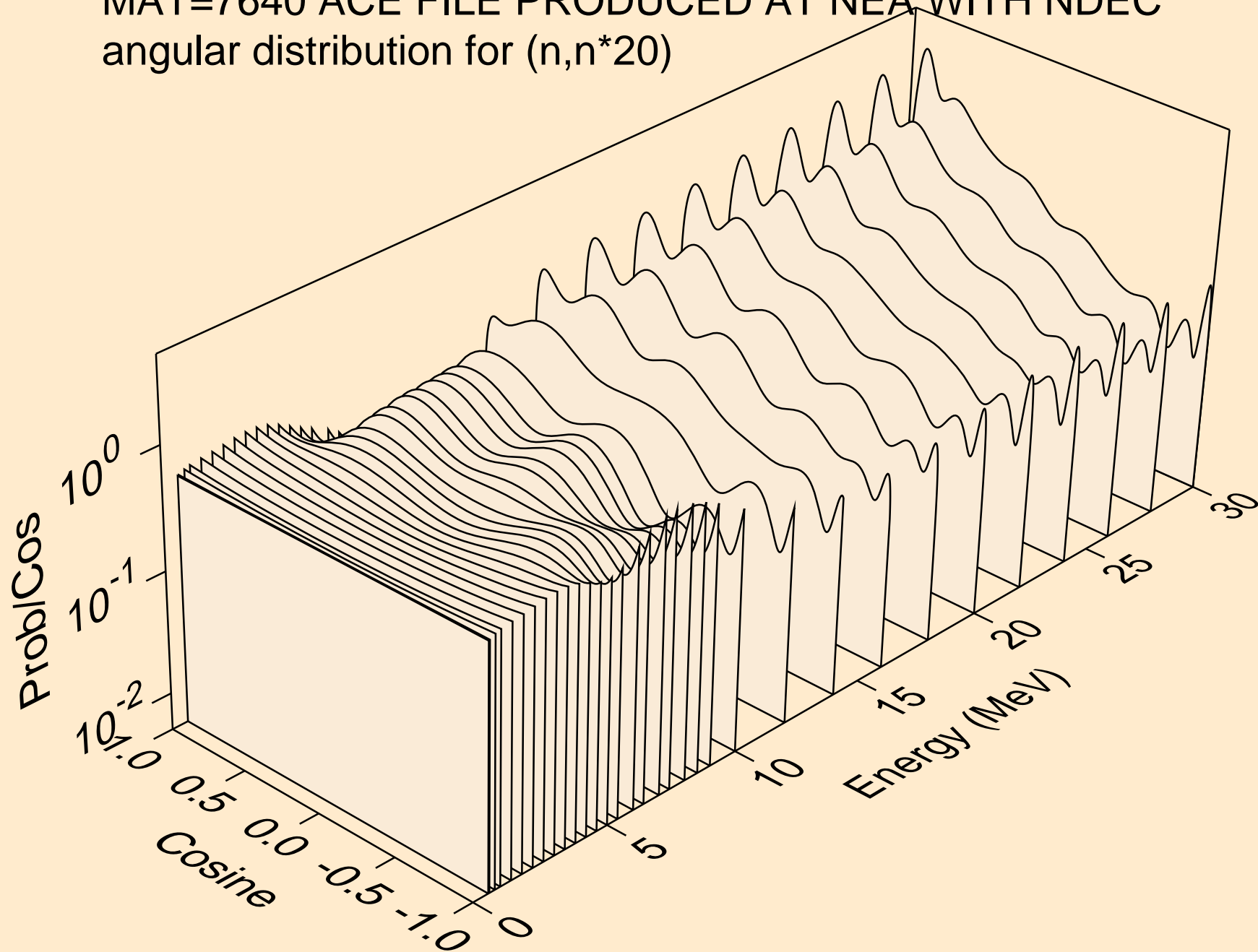
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angular distribution for (n,n\*18)



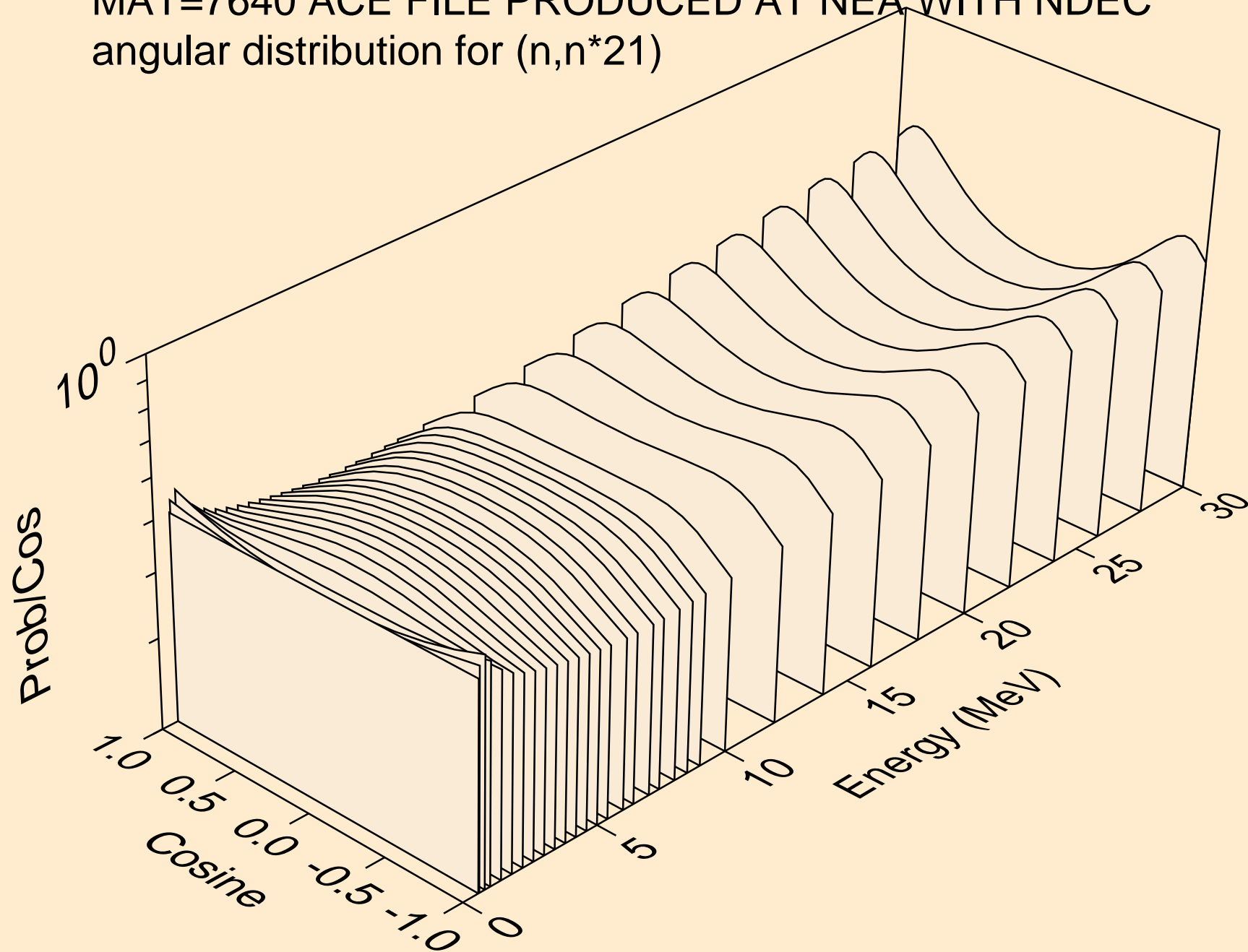
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angular distribution for (n,n\*19)



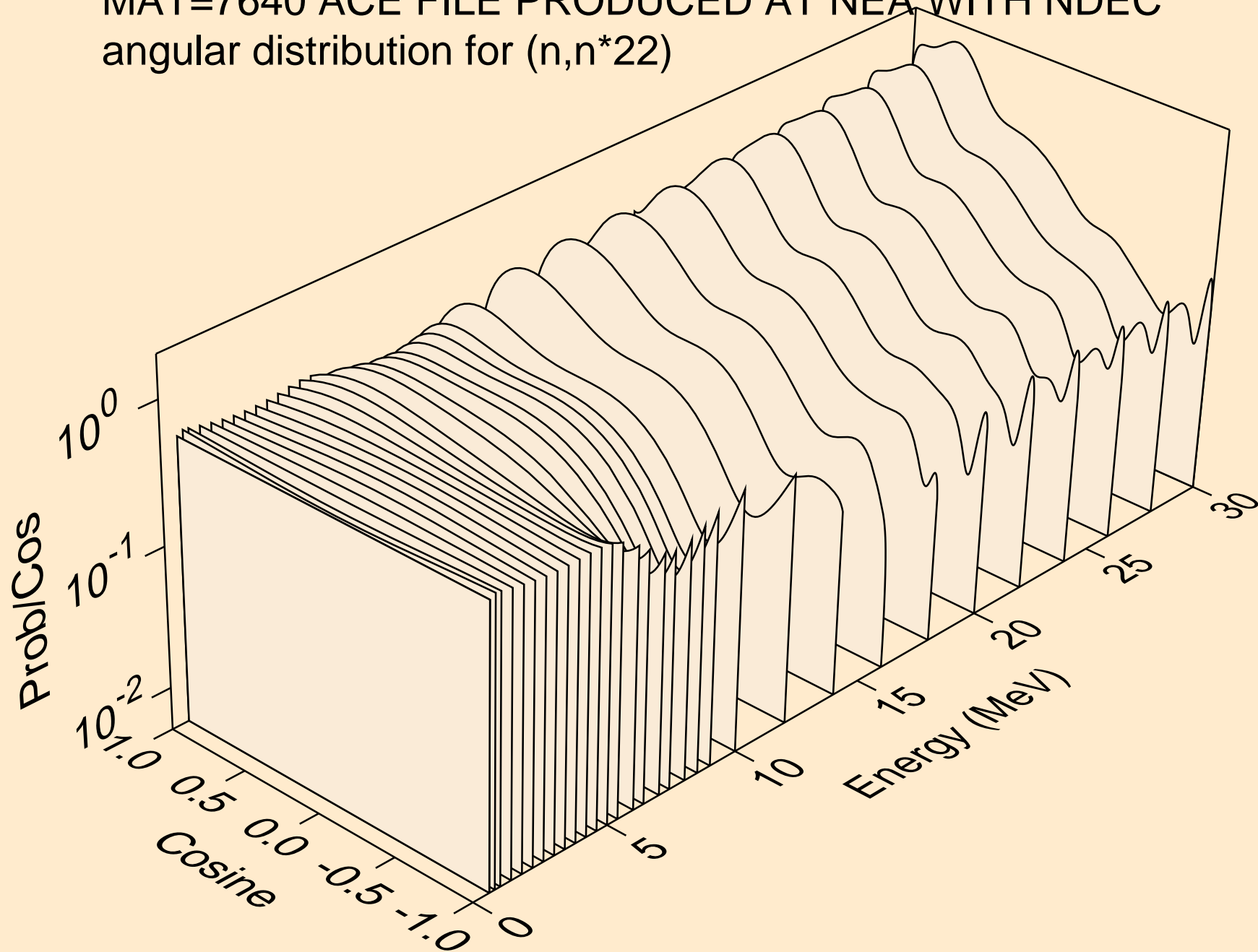
MAT=7640 ACE FILE PRODUCED AT NEA WITH NDEC  
angular distribution for (n,n\*20)



MAT=7640 ACE FILE PRODUCED AT NEA WITH NDEC  
angular distribution for (n,n\*21)

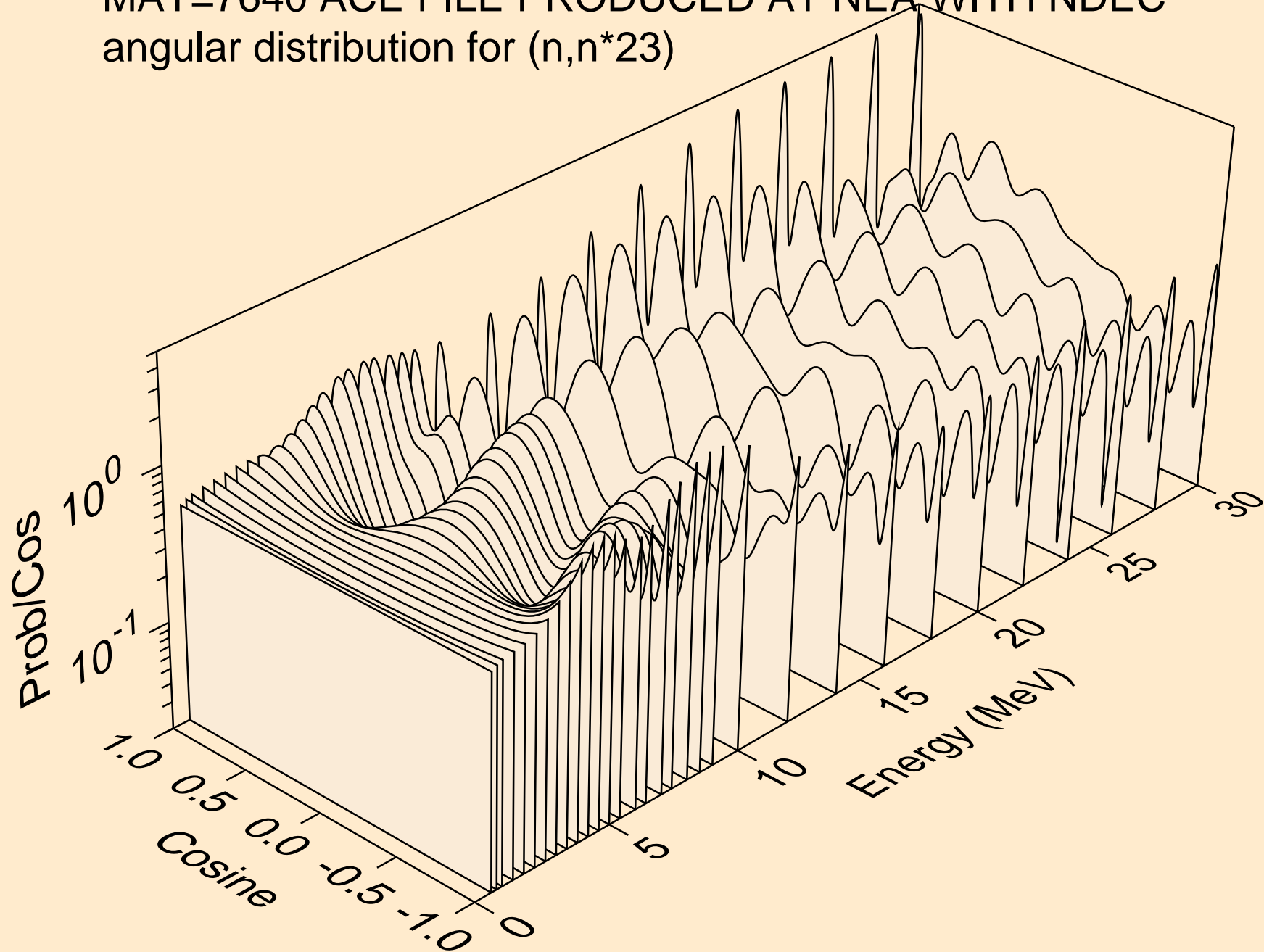


MAT=7640 ACE FILE PRODUCED AT NEA WITH NDEC  
angular distribution for (n,n\*22)

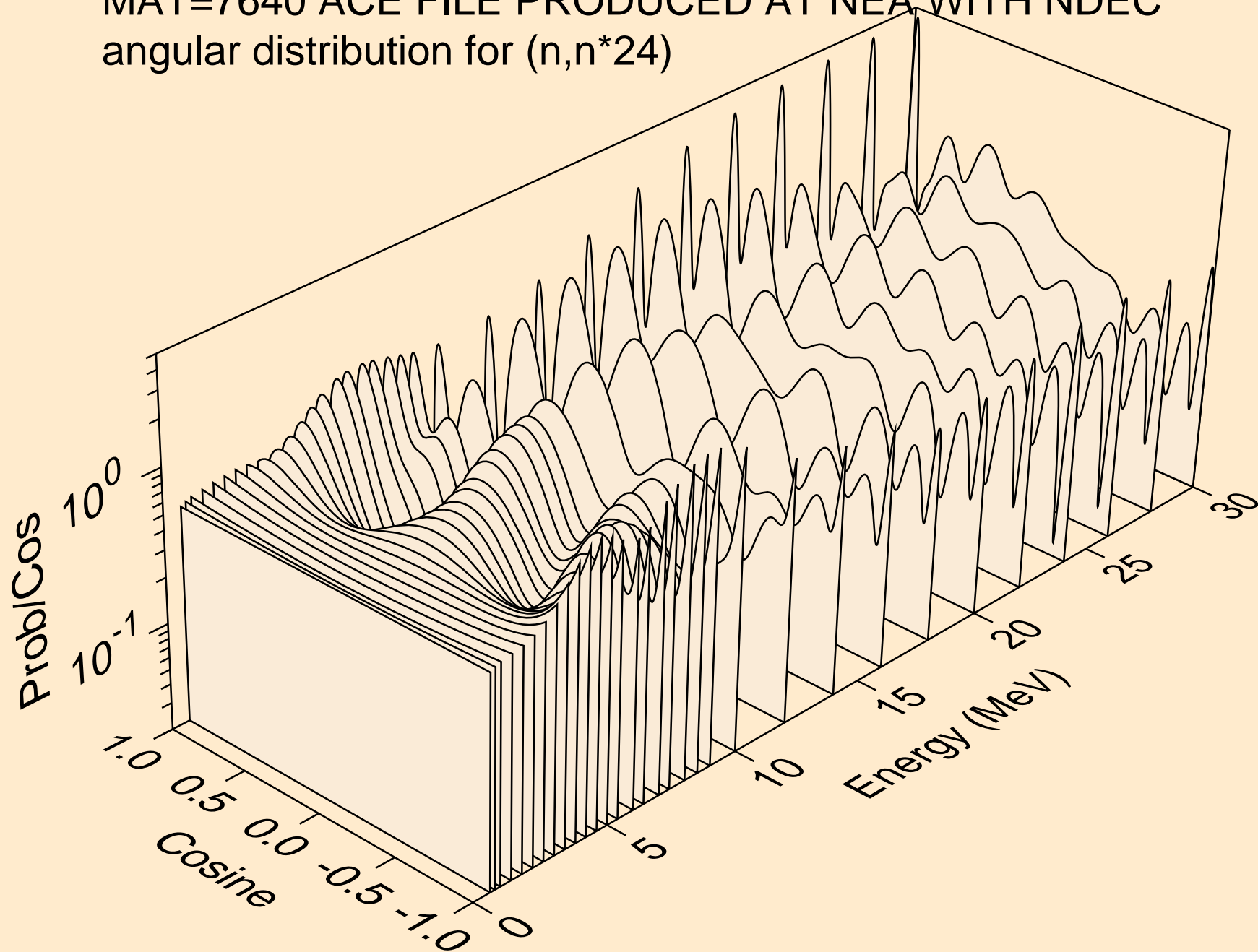




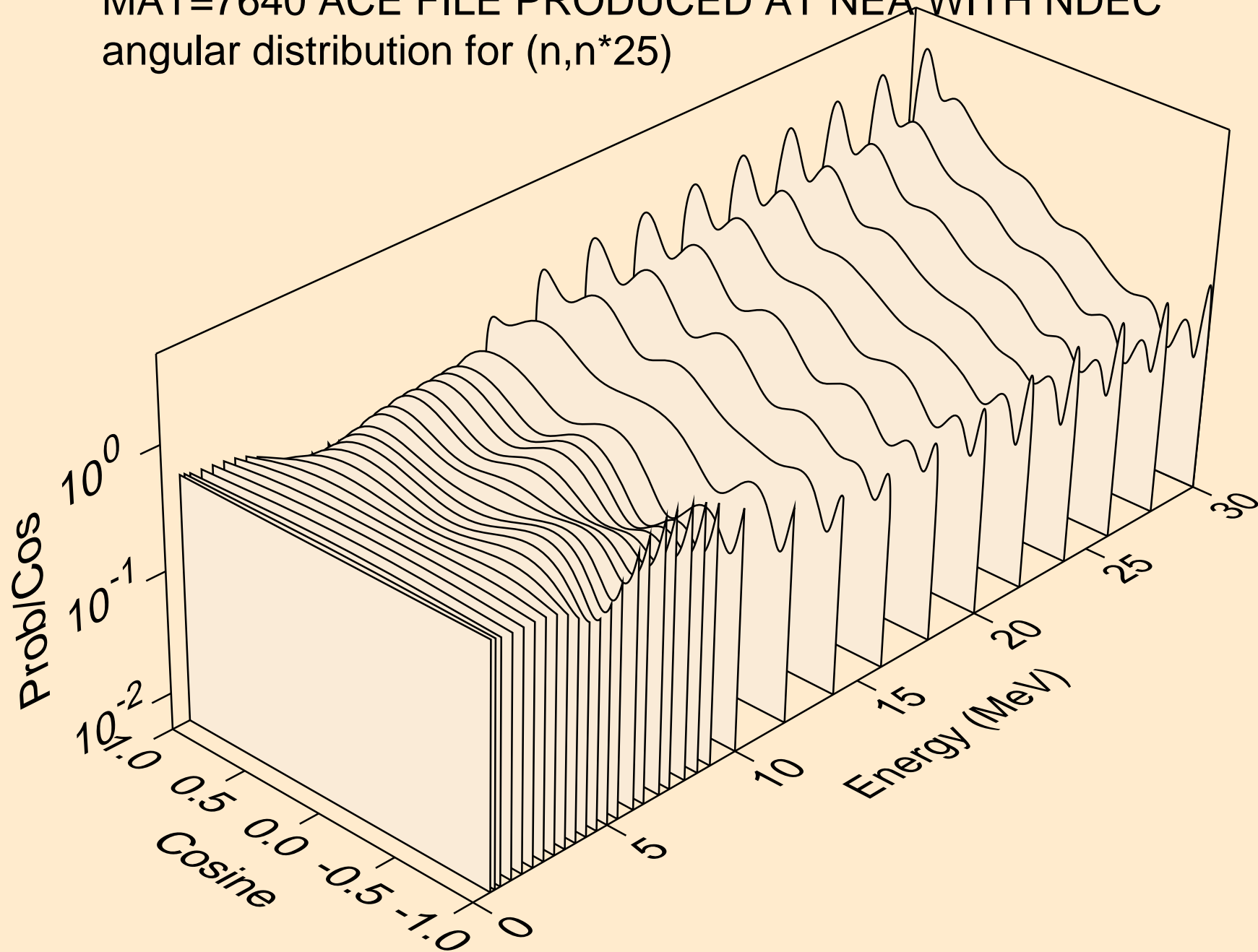
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angular distribution for (n,n\*23)



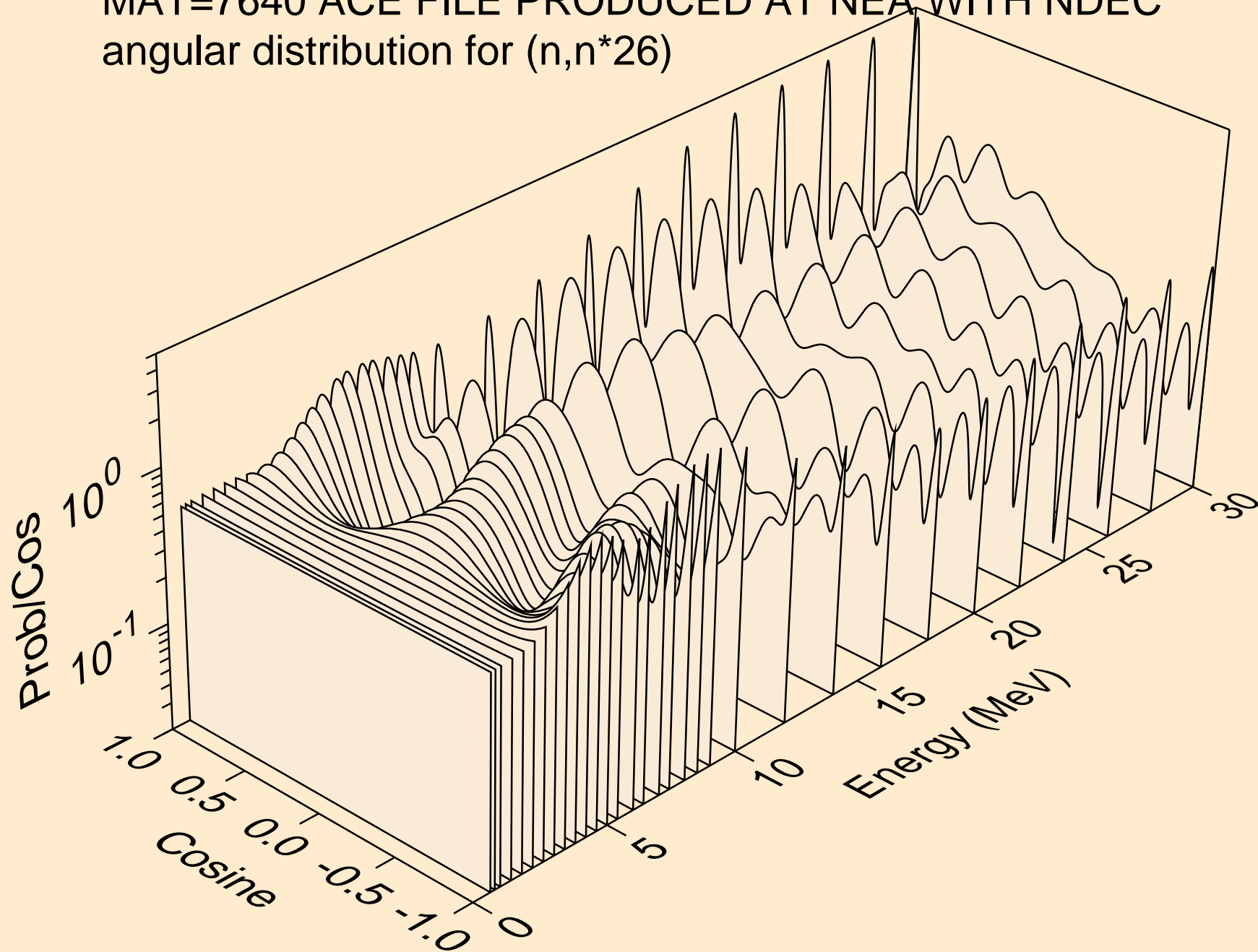
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angular distribution for (n,n\*24)



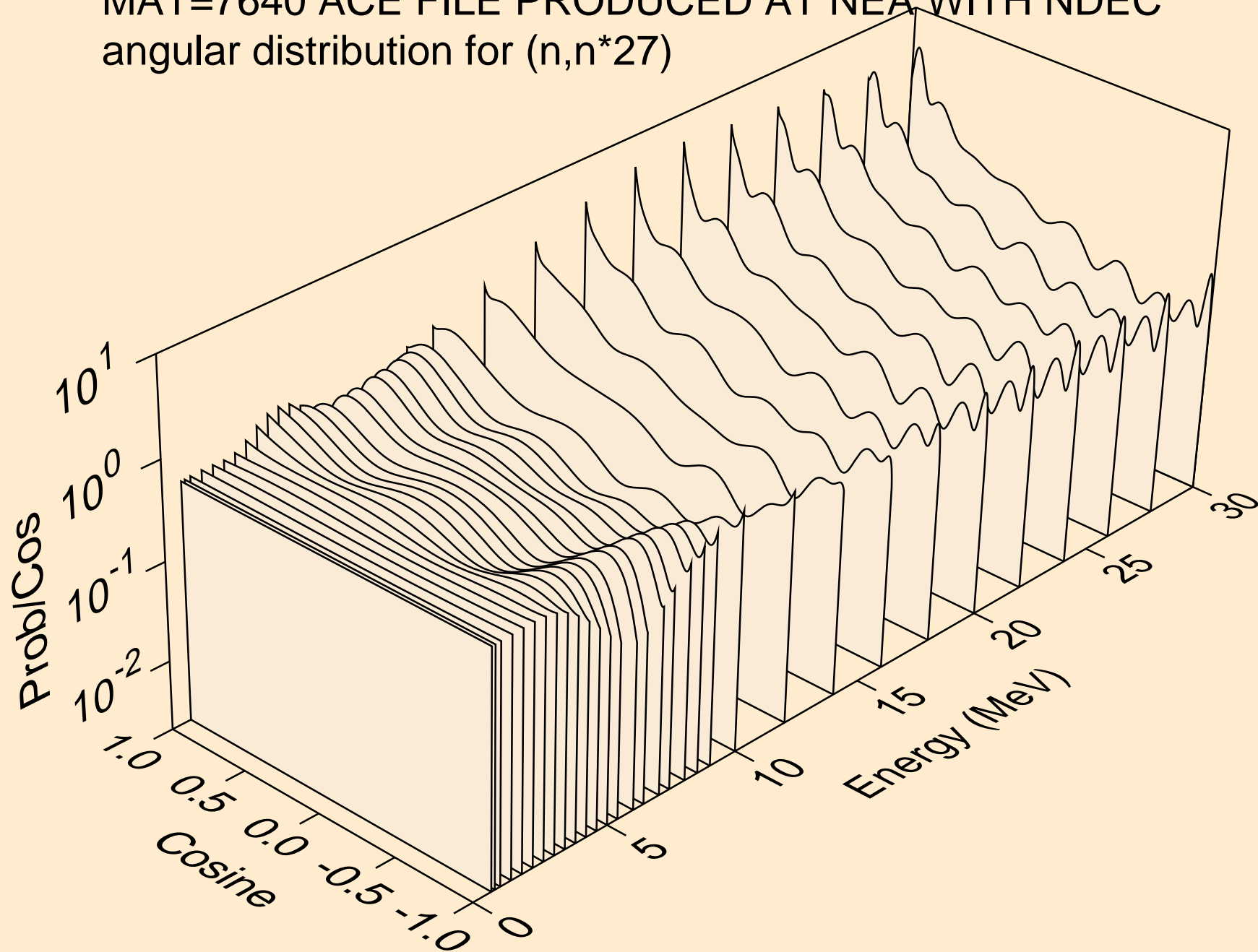
MAT=7640 ACE FILE PRODUCED AT NEA WITH NDEC  
angular distribution for (n,n\*25)



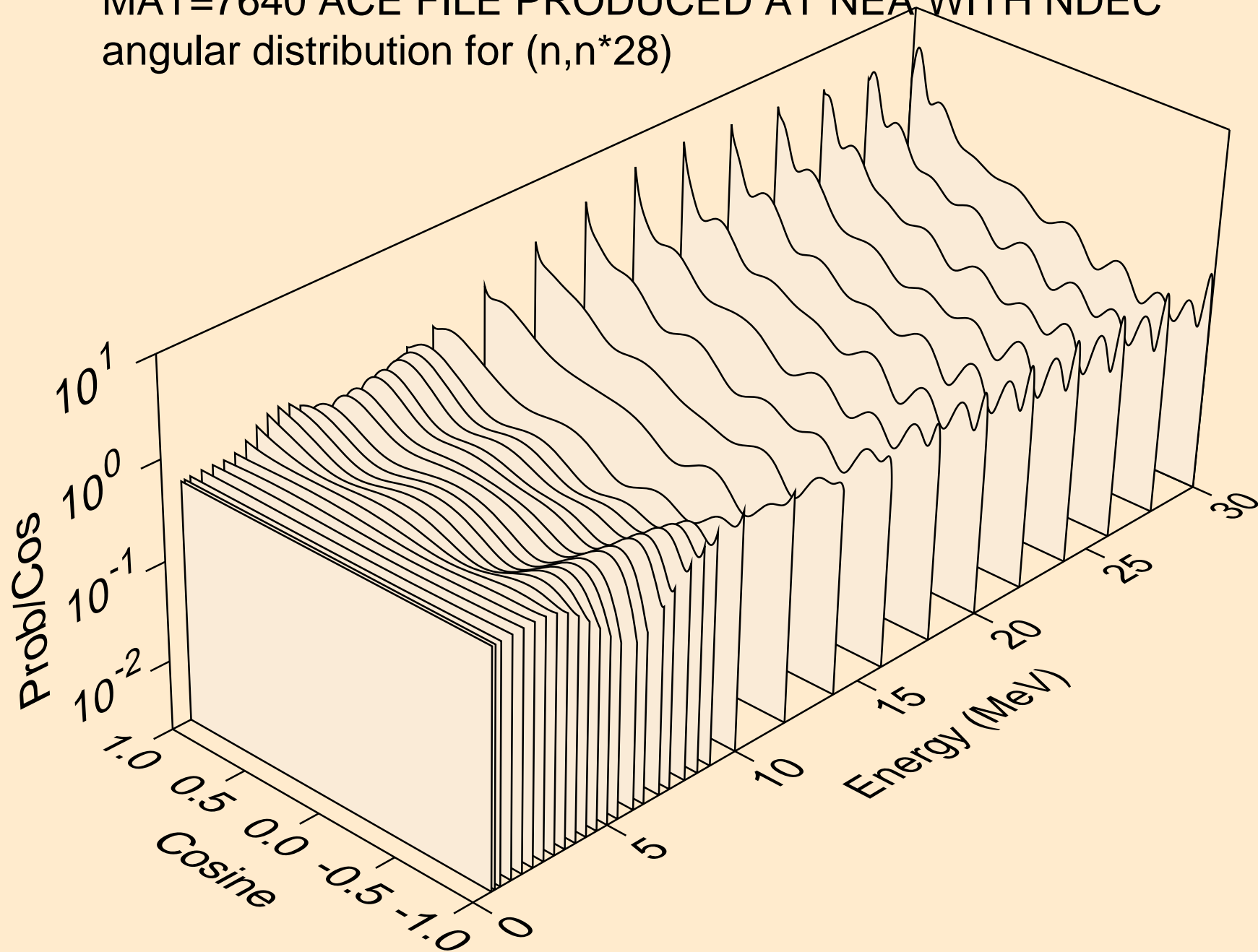
MAT=7640 ACE FILE PRODUCED AT NEA WITH NDEC  
angular distribution for (n,n\*26)



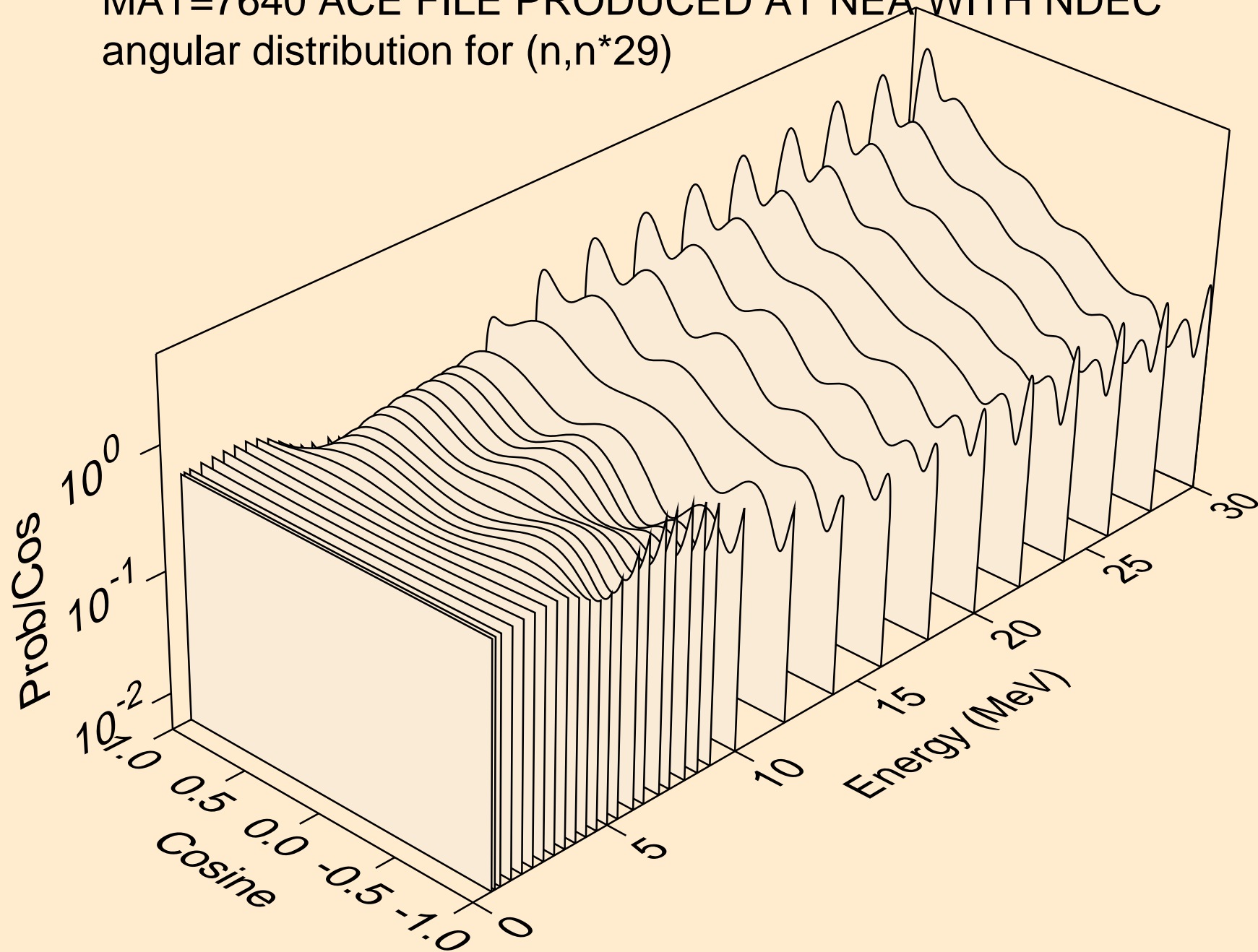
MAT=7640 ACE FILE PRODUCED AT NEA WITH NDEC  
angular distribution for (n,n\*27)



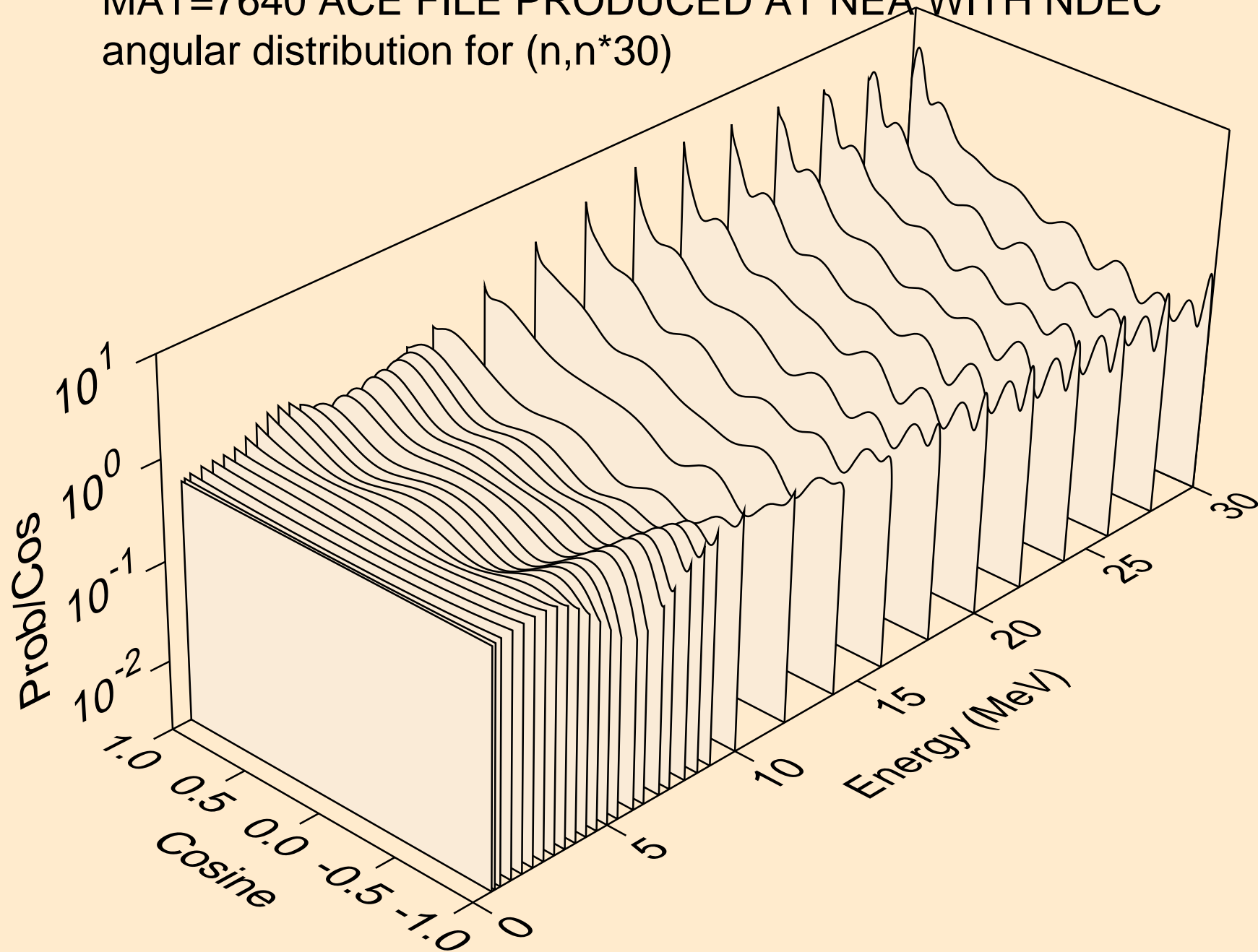
MAT=7640 ACE FILE PRODUCED AT NEA WITH NDEC  
angular distribution for (n,n\*28)



MAT=7640 ACE FILE PRODUCED AT NEA WITH NDEC  
angular distribution for (n,n\*29)

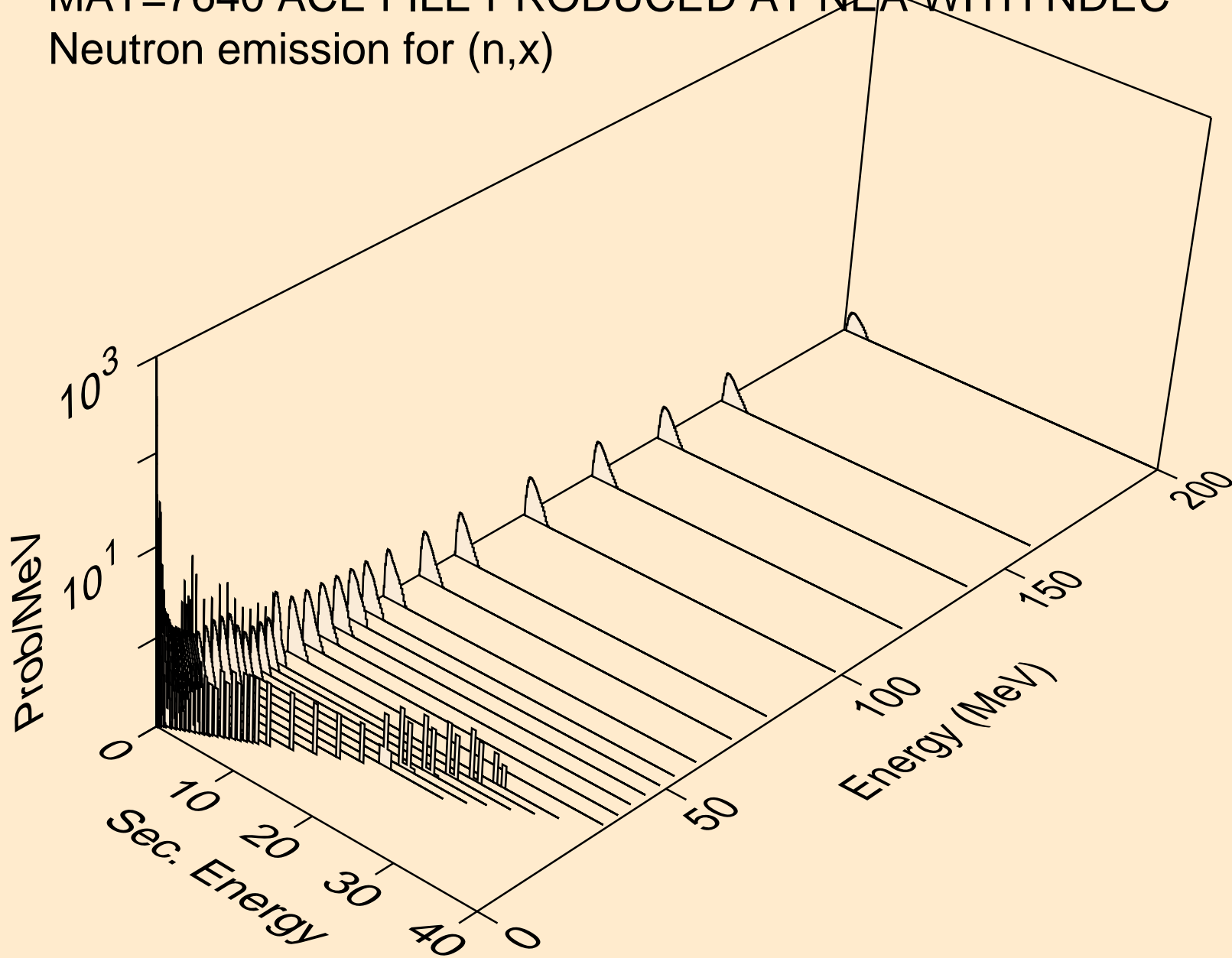


MAT=7640 ACE FILE PRODUCED AT NEA WITH NDEC  
angular distribution for (n,n\*30)

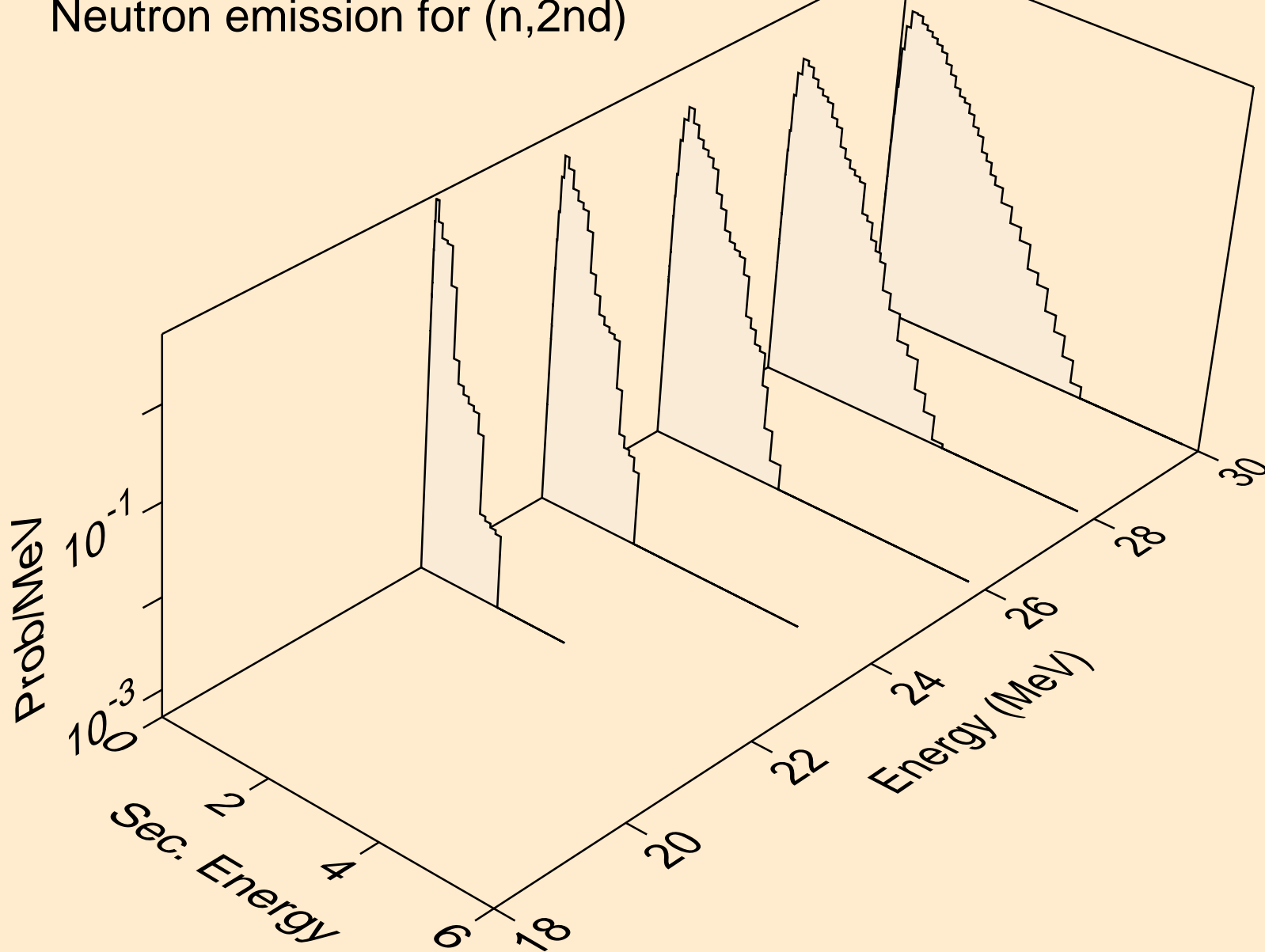




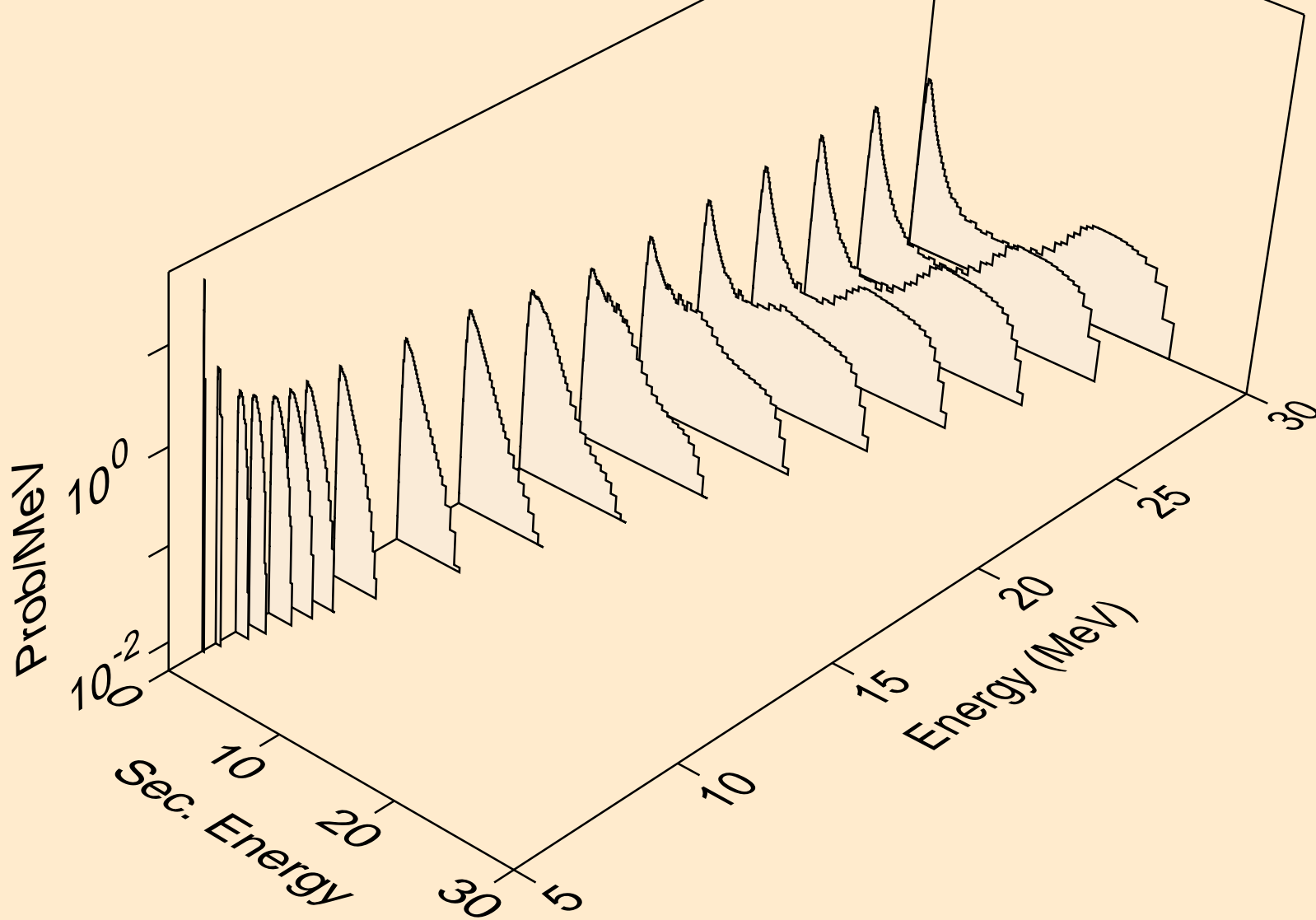
MAT=7640 ACE FILE PRODUCED AT NEA WITH NDEC  
Neutron emission for (n,x)



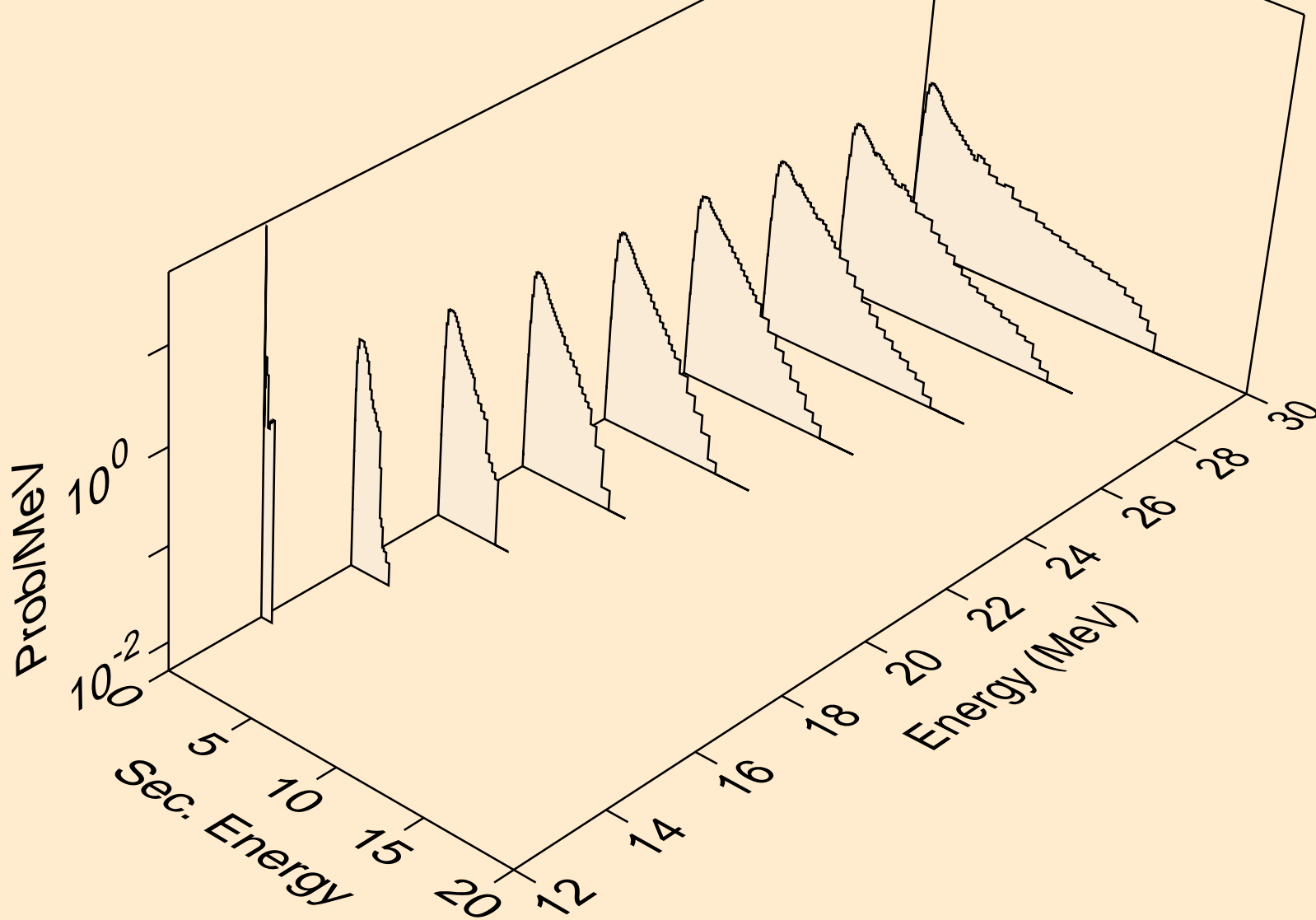
MAT=7640 ACE FILE PRODUCED AT NEA WITH NDEC  
Neutron emission for (n,2nd)



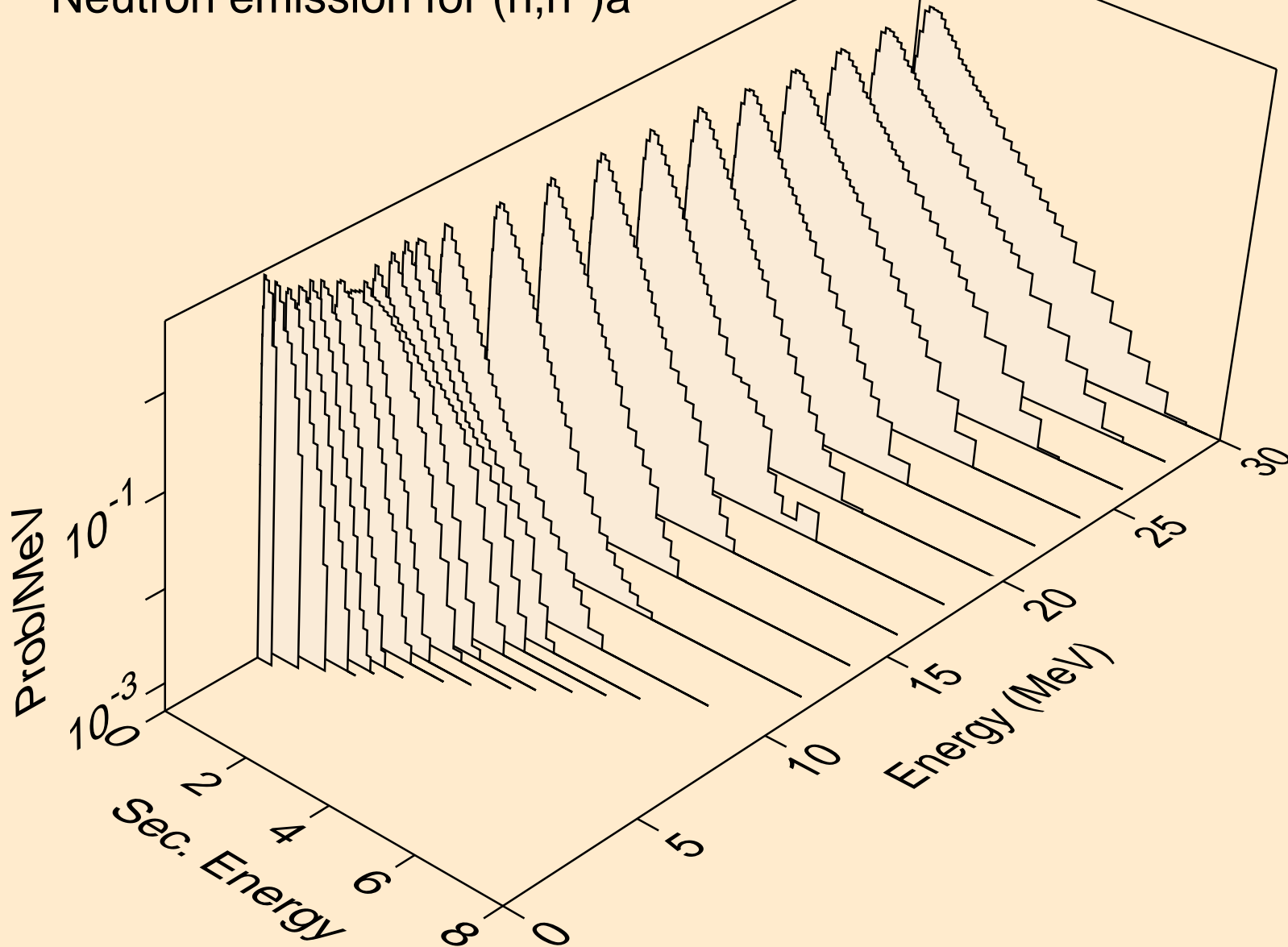
MAT=7640 ACE FILE PRODUCED AT NEA WITH NDEC  
Neutron emission for (n,2n)



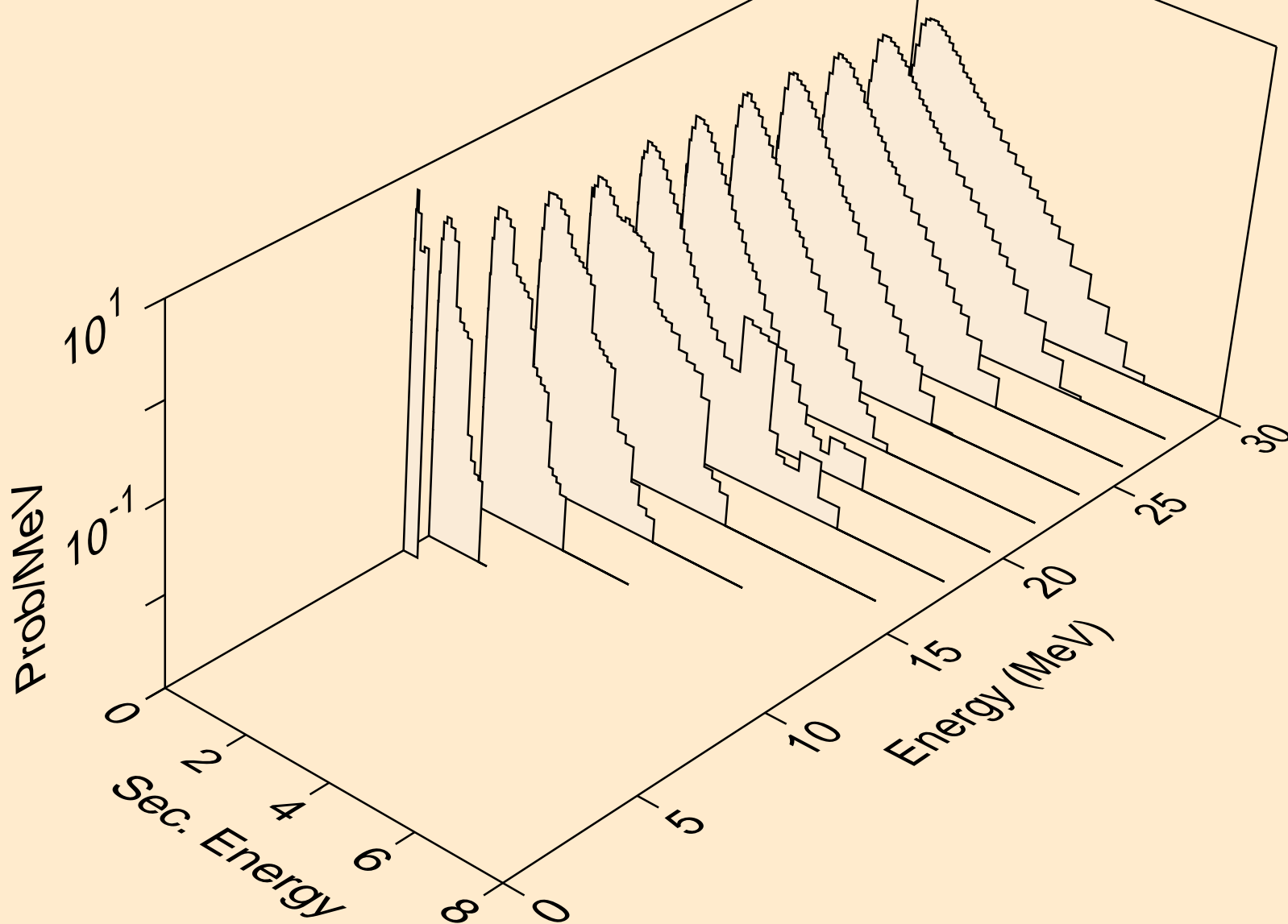
MAT=7640 ACE FILE PRODUCED AT NEA WITH NDEC  
Neutron emission for (n,3n)



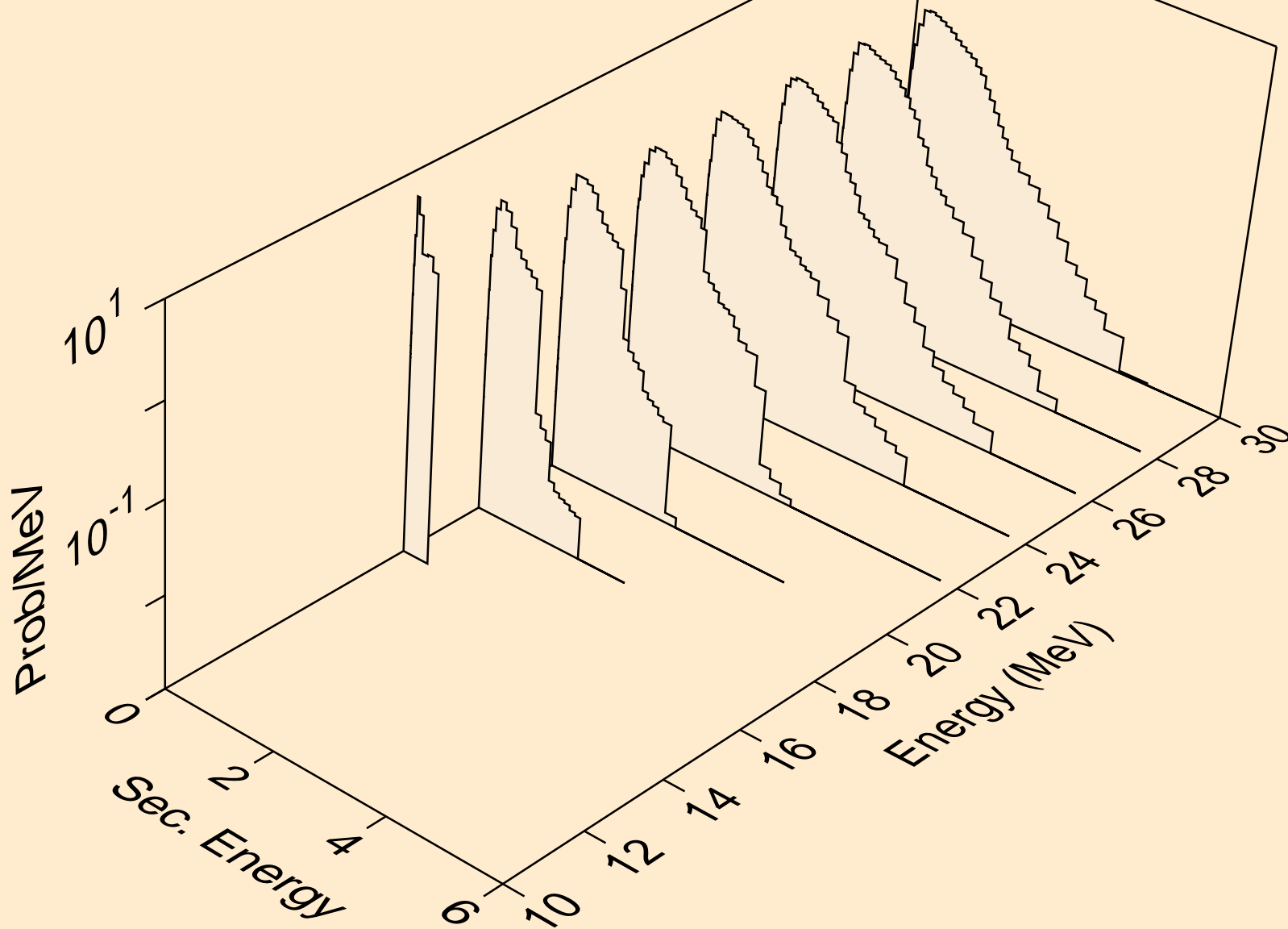
MAT=7640 ACE FILE PRODUCED AT NEA WITH NDEC  
Neutron emission for (n,n\*)a



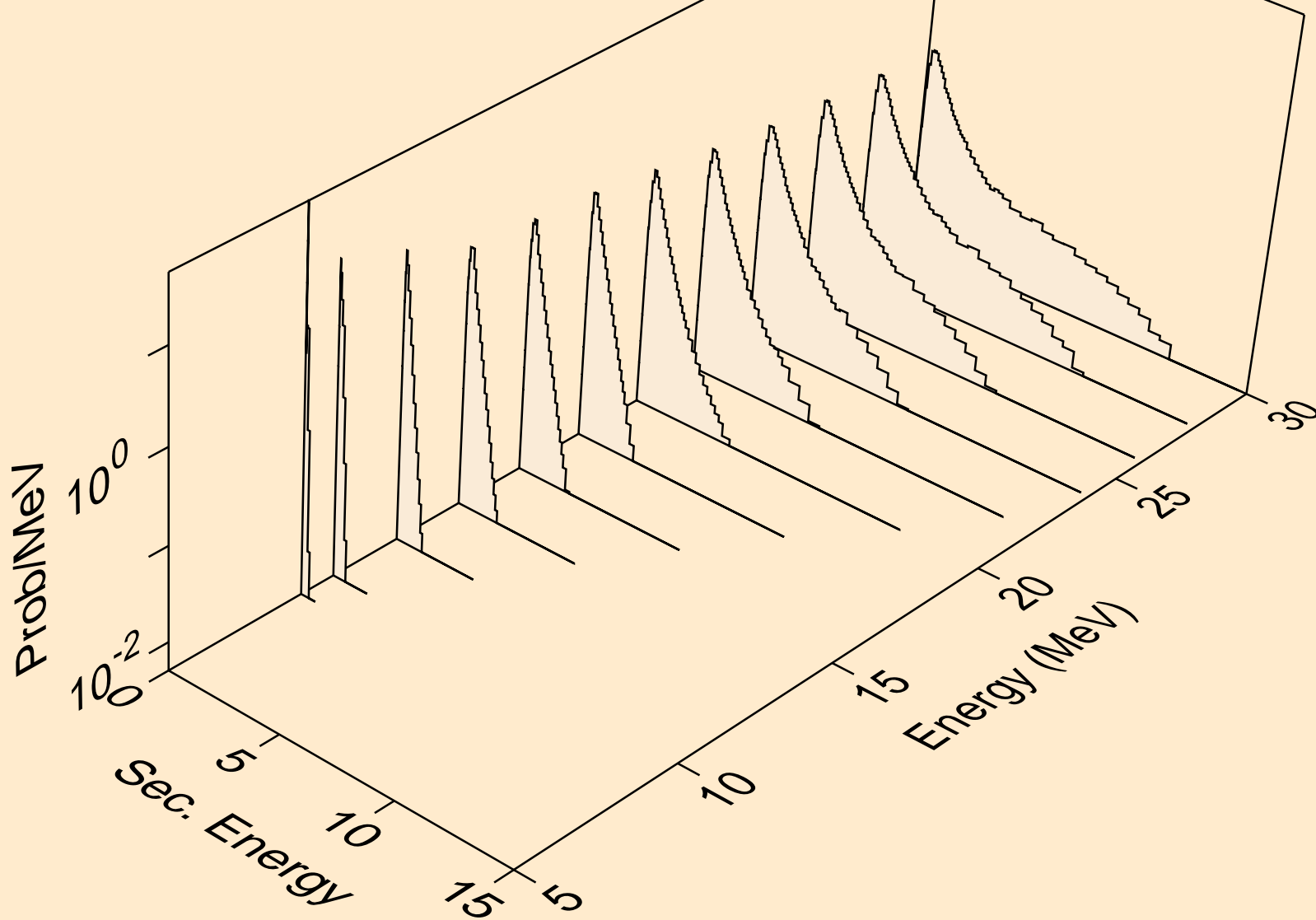
MAT=7640 ACE FILE PRODUCED AT NEA WITH NDEC  
Neutron emission for (n,2n)a



MAT=7640 ACE FILE PRODUCED AT NEA WITH NDEC  
Neutron emission for (n,3n)a

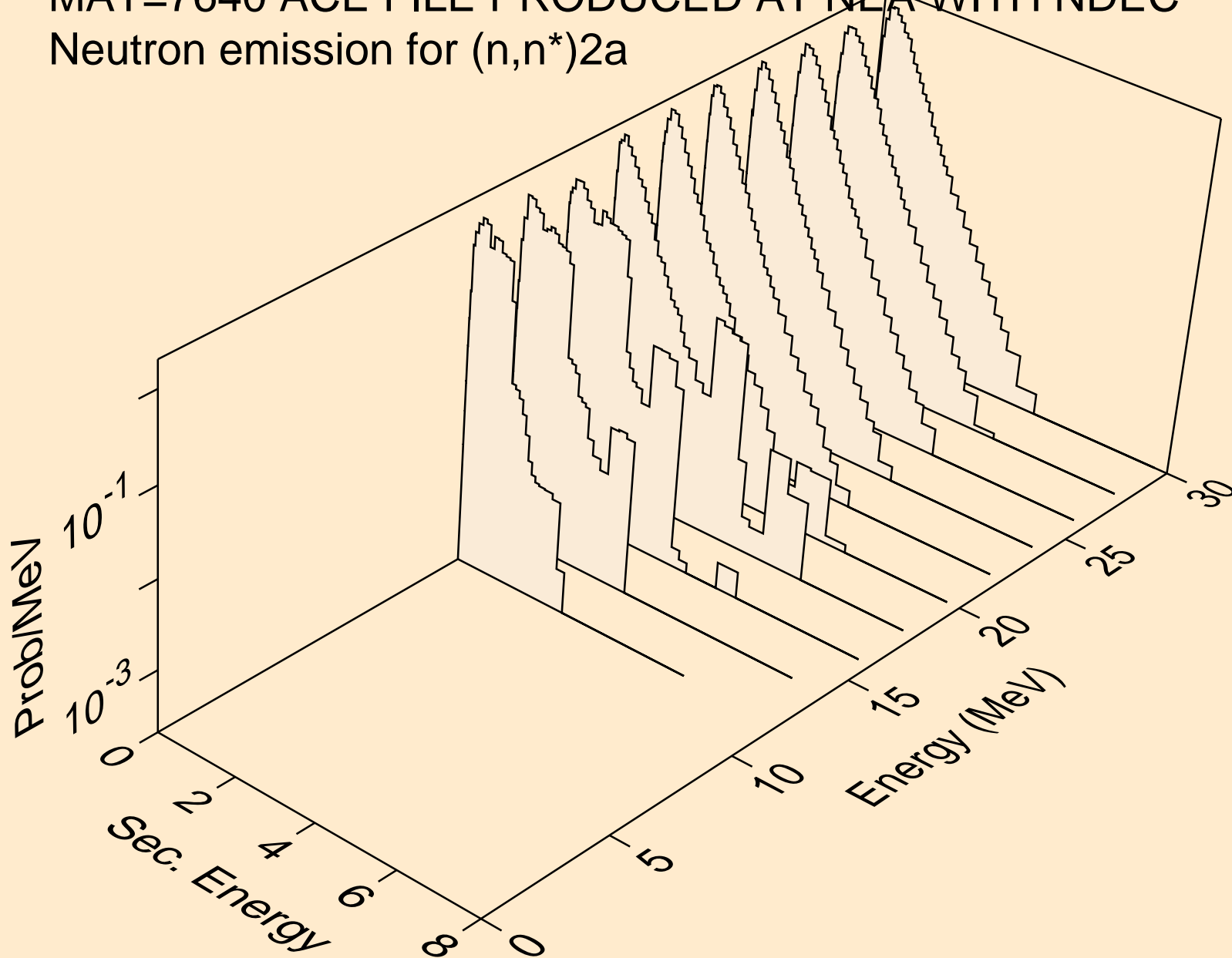


MAT=7640 ACE FILE PRODUCED AT NEA WITH NDEC  
Neutron emission for (n,n\*)p

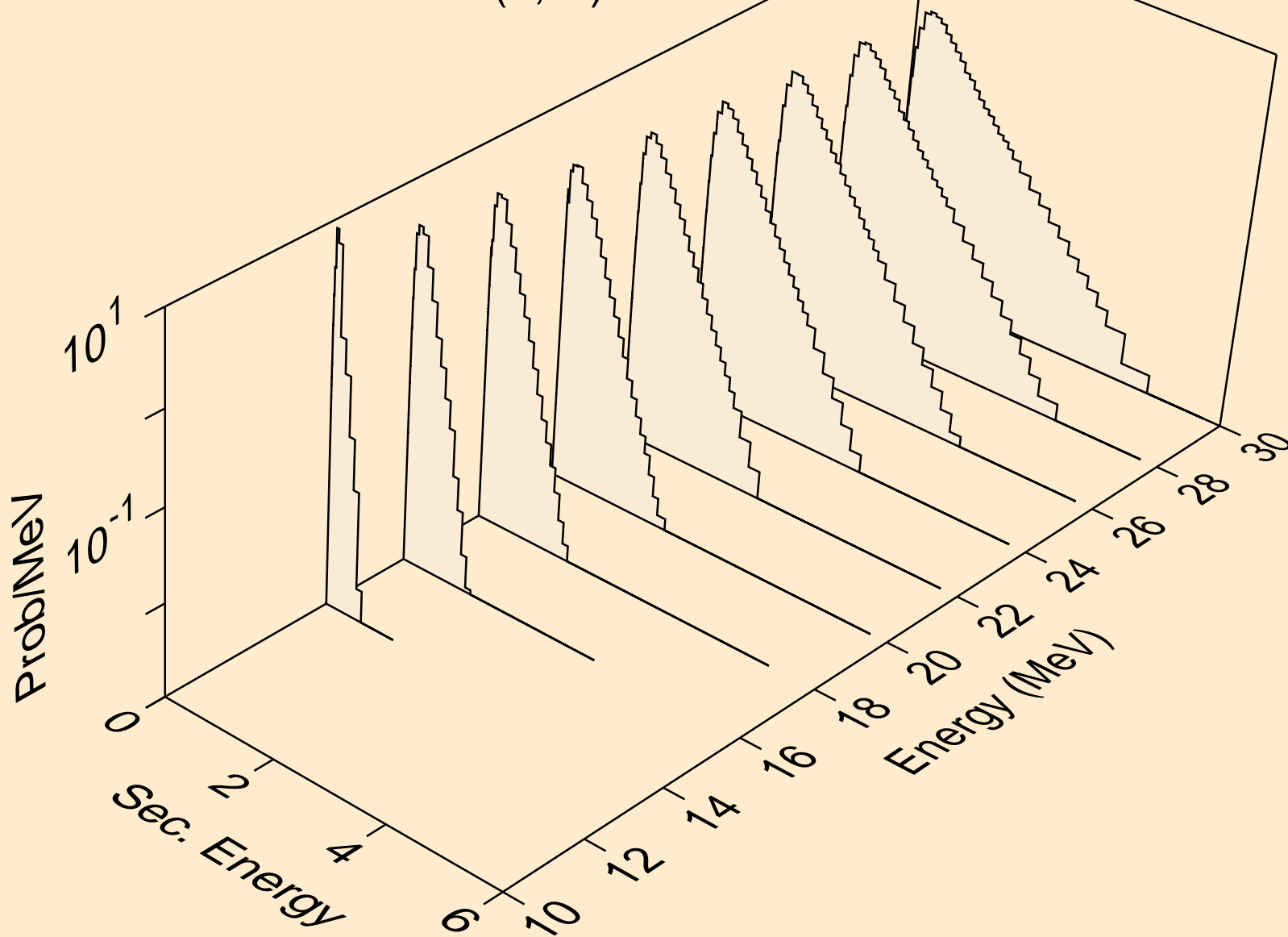




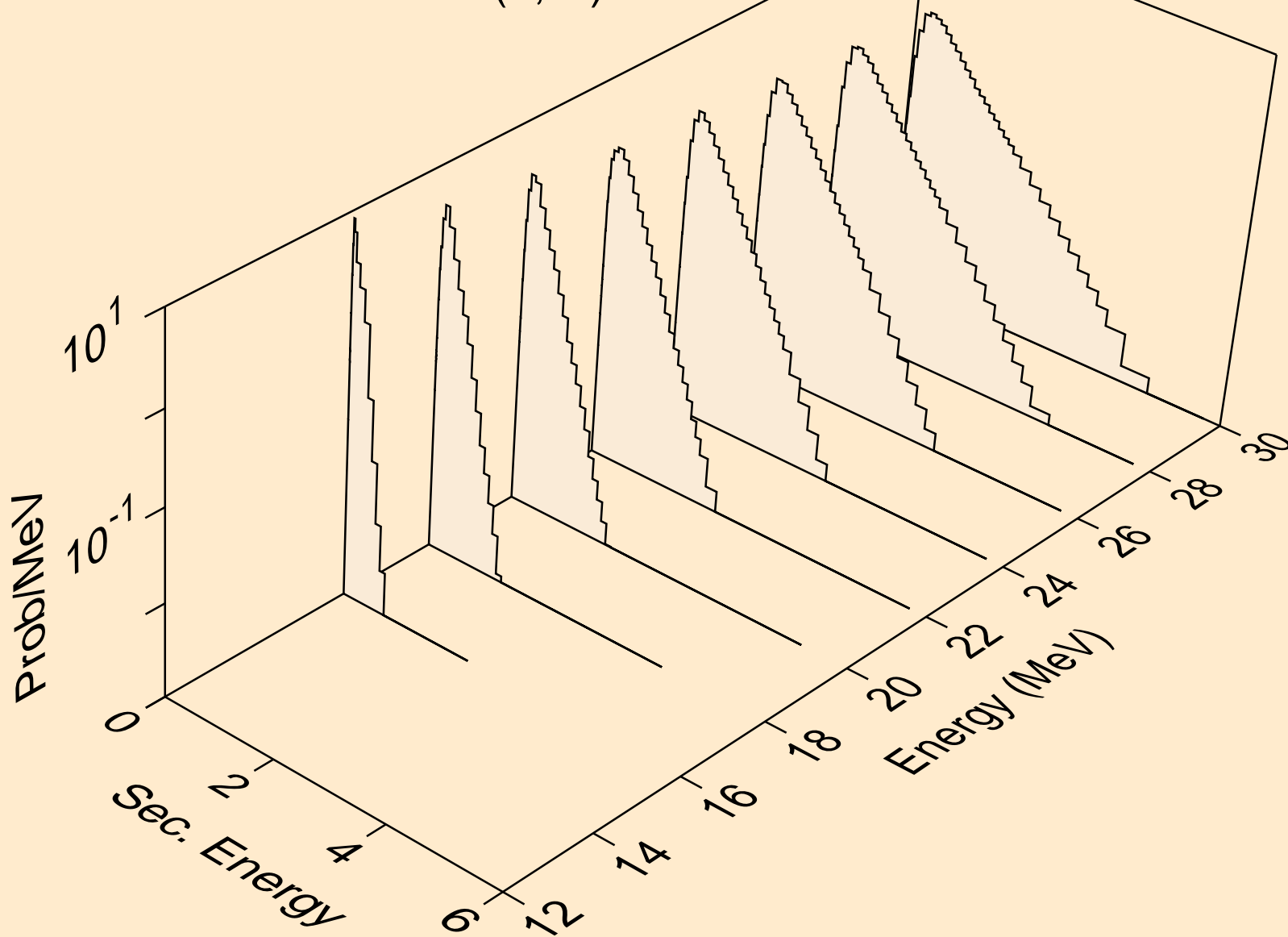
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Neutron emission for (n,n\*)2a



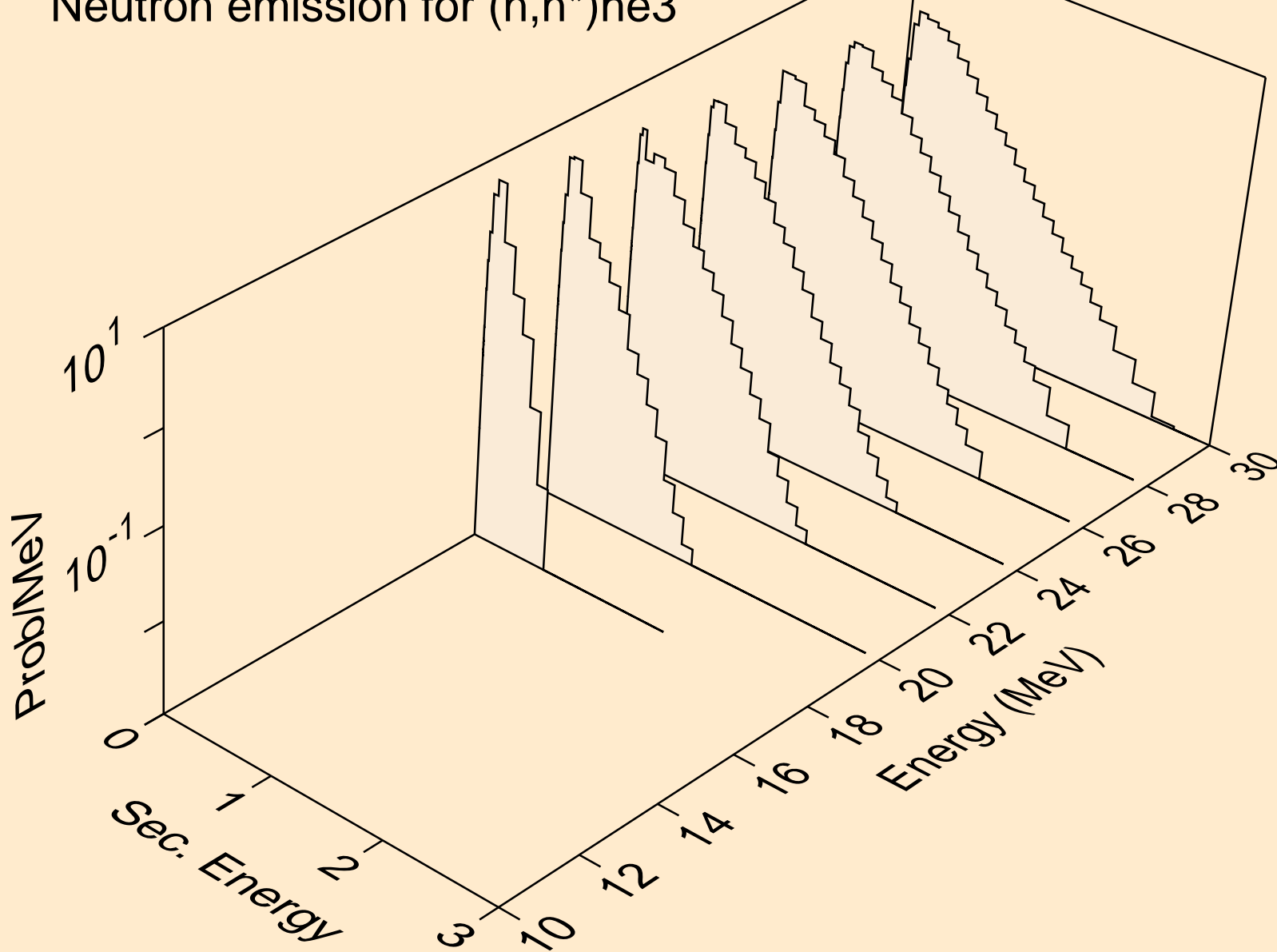
MAT=7640 ACE FILE PRODUCED AT NEA WITH NDEC  
Neutron emission for (n,n\*)d



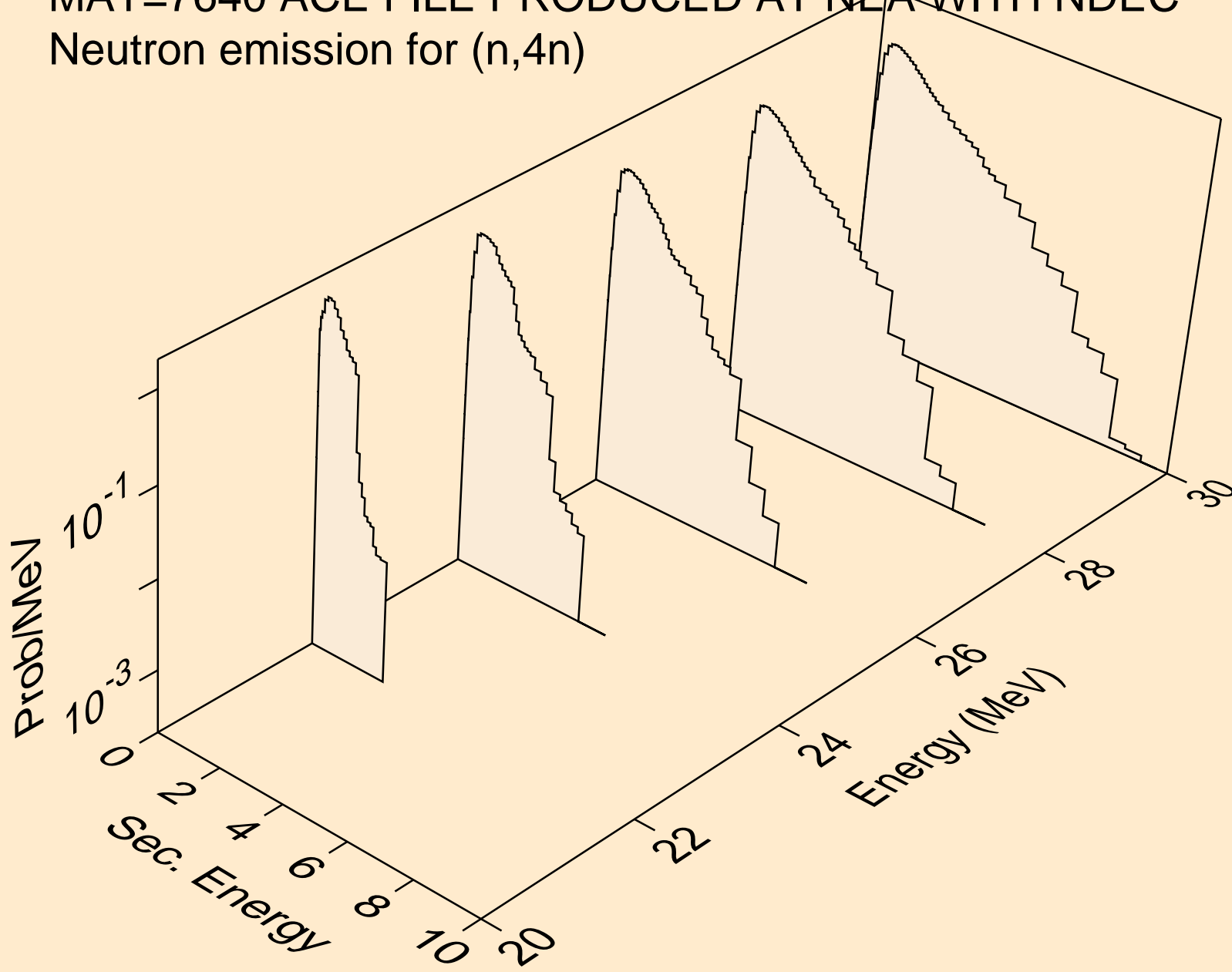
MAT=7640 ACE FILE PRODUCED AT NEA WITH NDEC  
Neutron emission for (n,n\*)t



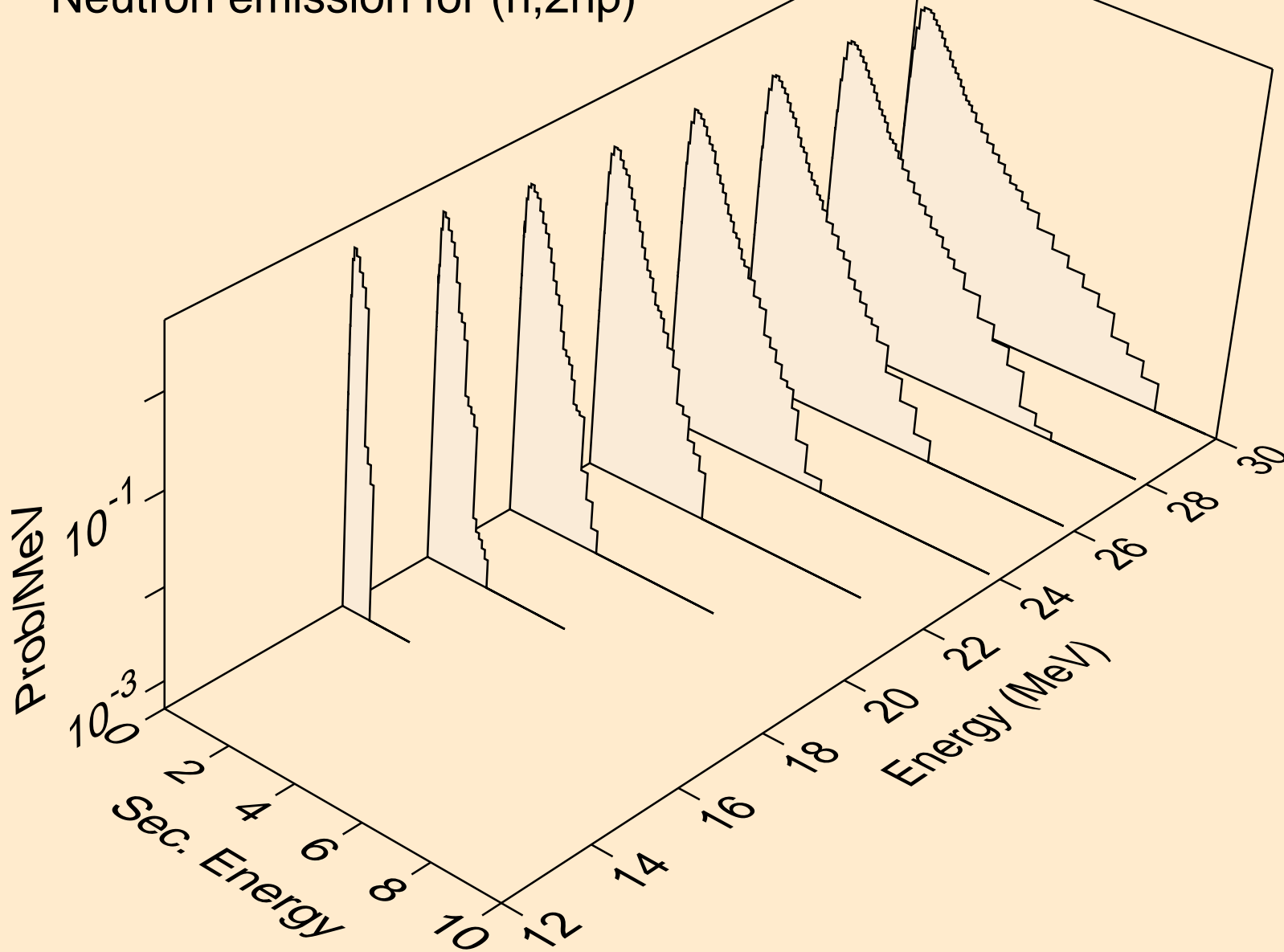
MAT=7640 ACE FILE PRODUCED AT NEA WITH NDEC  
Neutron emission for (n,n\*)he3



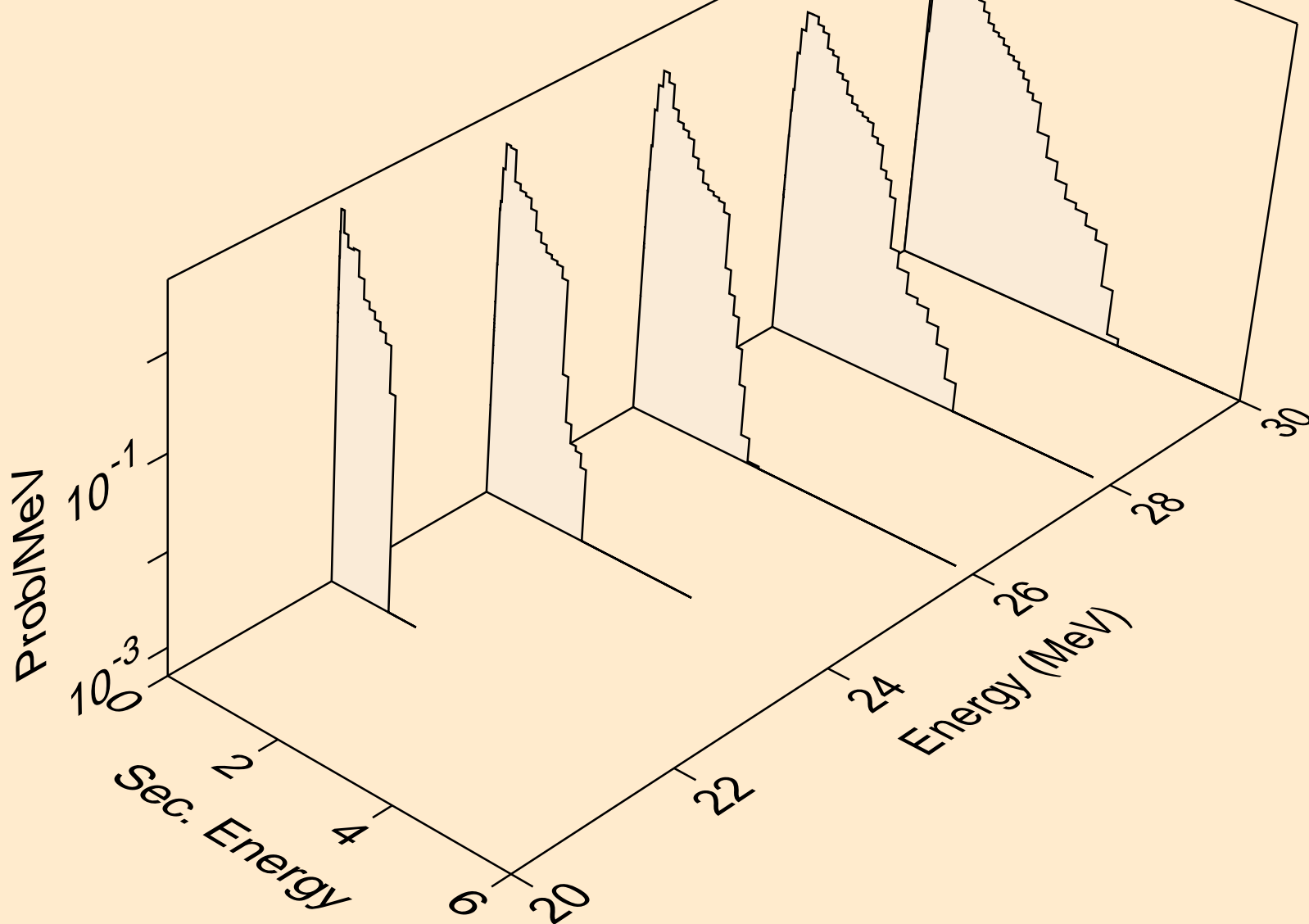
MAT=7640 ACE FILE PRODUCED AT NEA WITH NDEC  
Neutron emission for (n,4n)



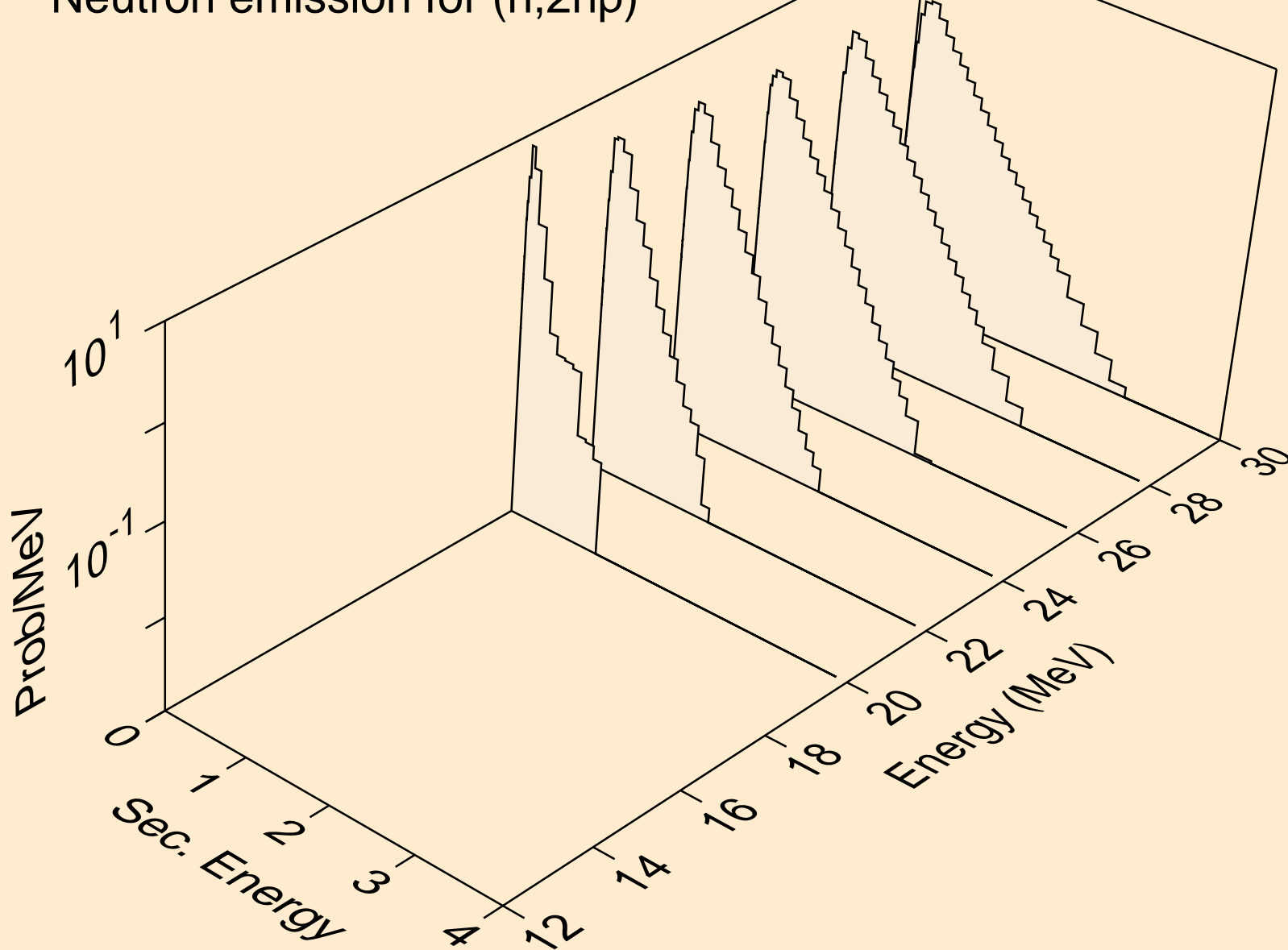
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Neutron emission for (n,2np)



MAT=7640 ACE FILE PRODUCED AT NEA WITH NDEC  
Neutron emission for (n,3np)

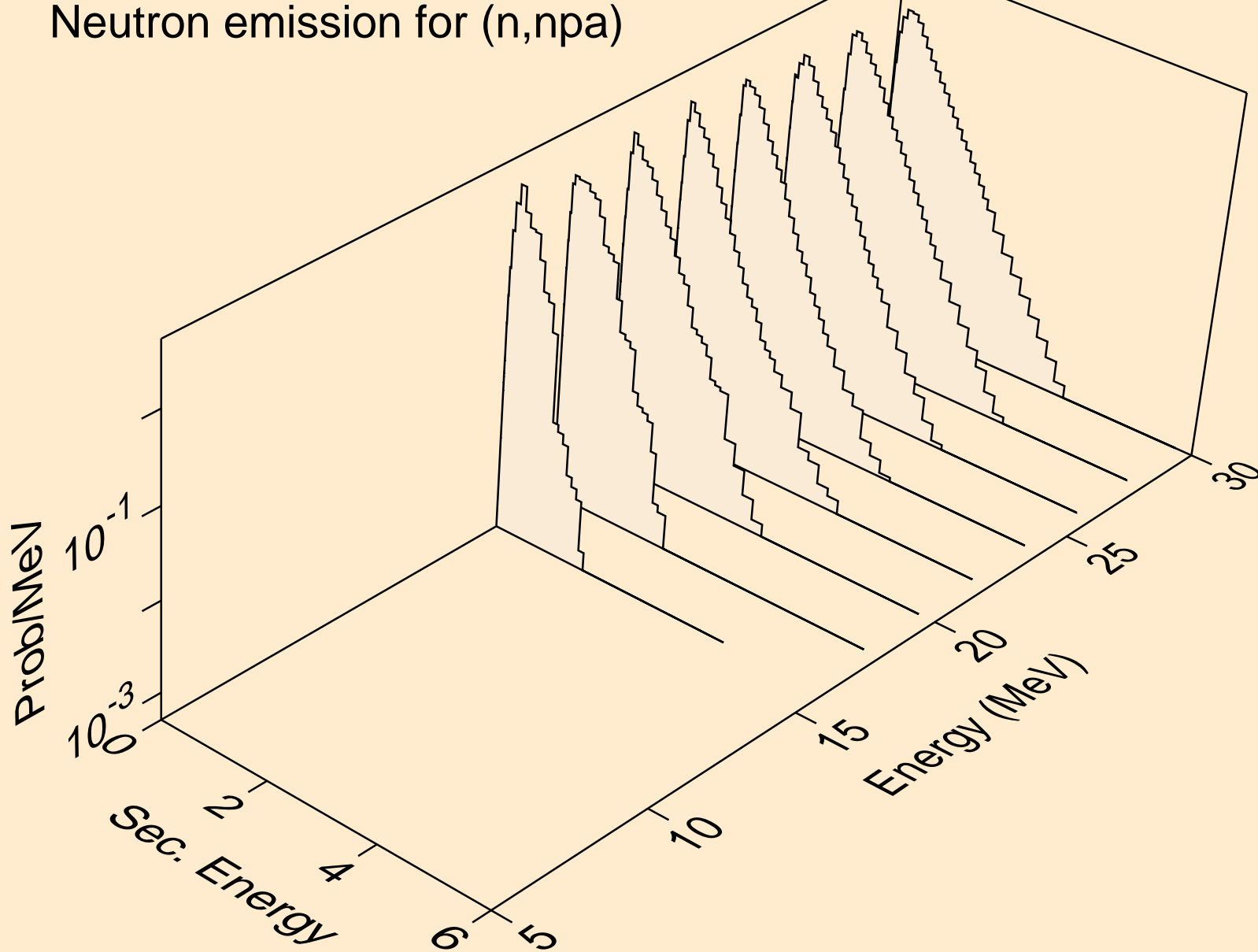


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Neutron emission for (n,2np)

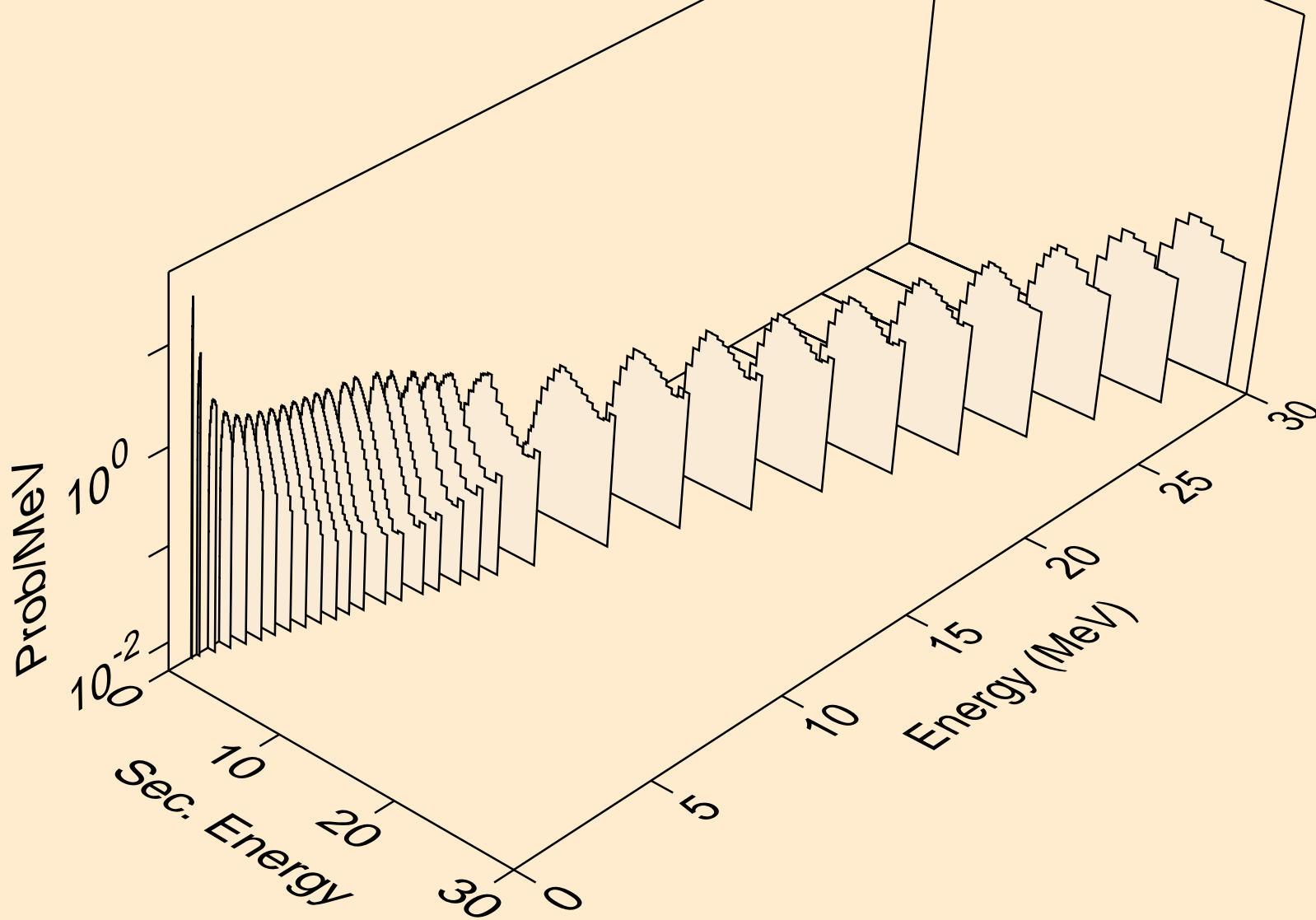




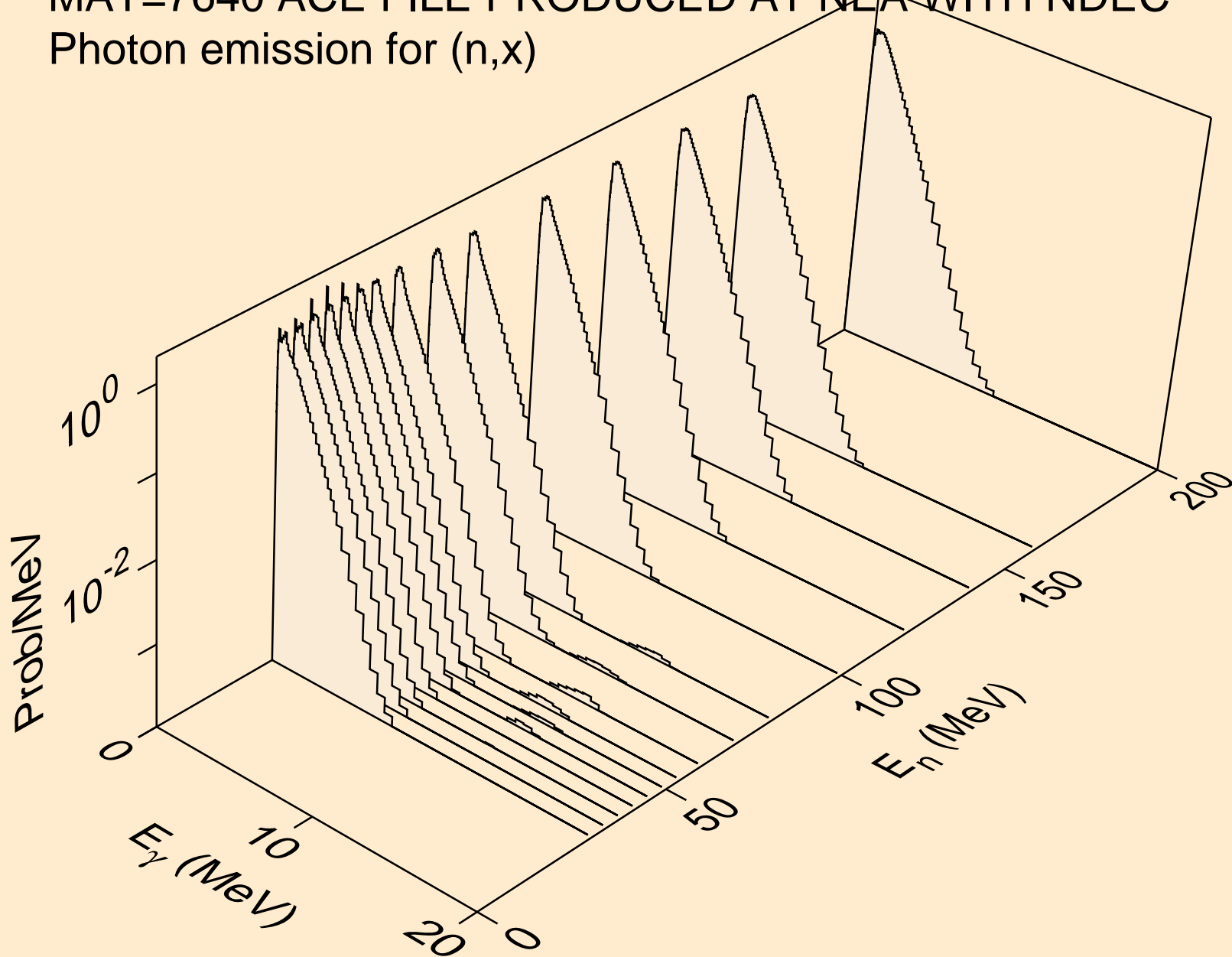
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Neutron emission for (n,npa)



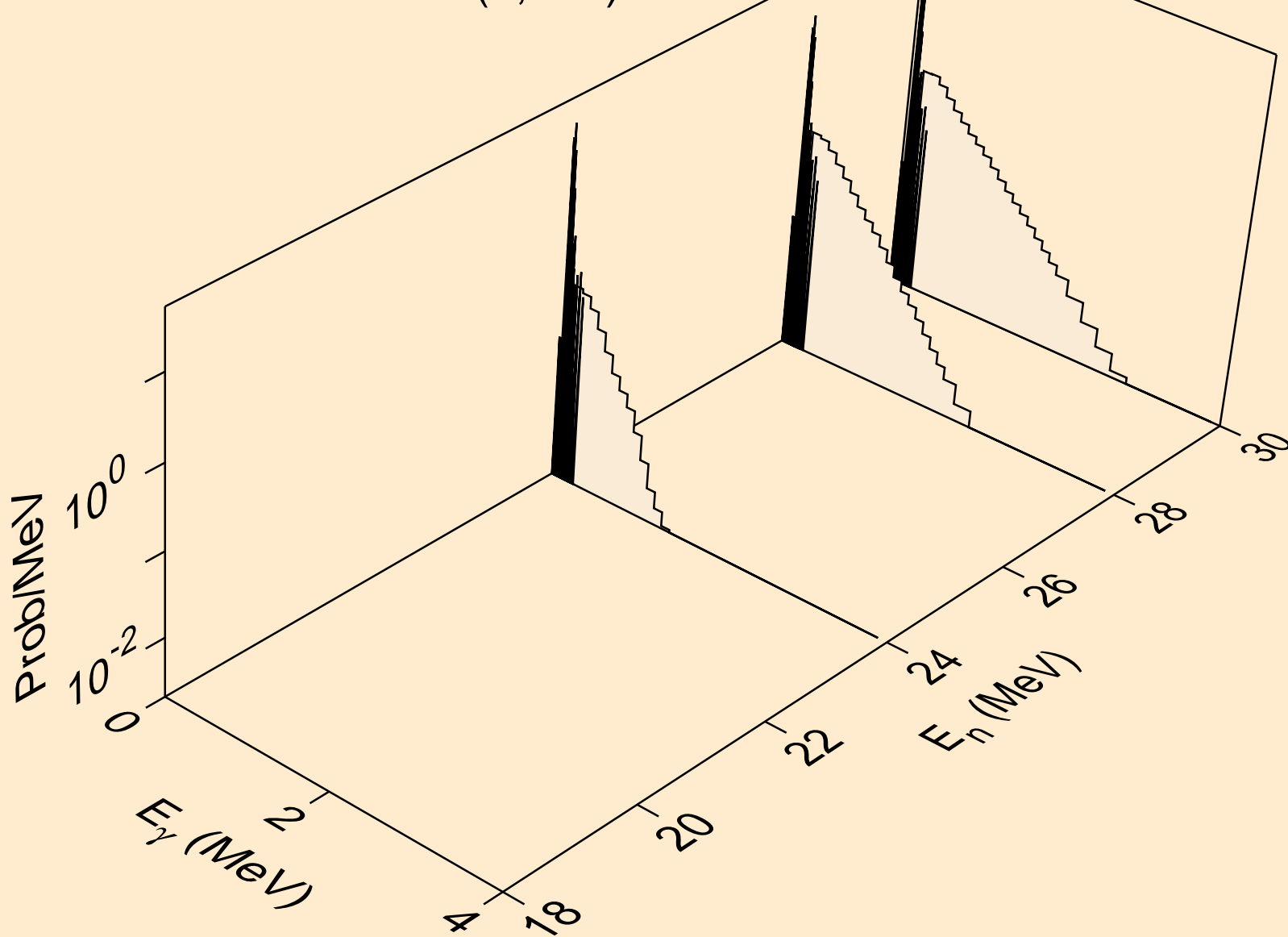
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Neutron emission for (n,n\*c)



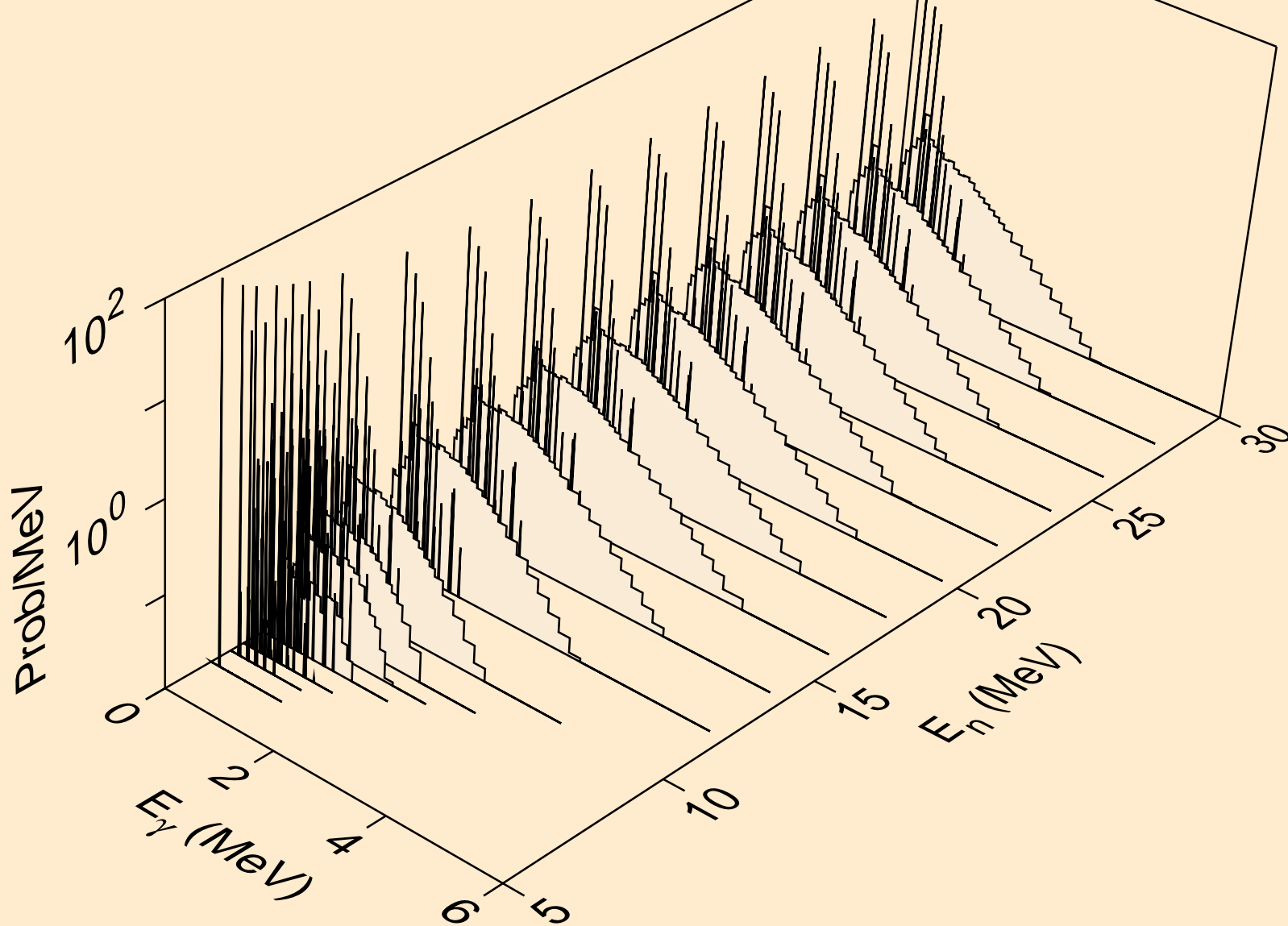
MAT=7640 ACE FILE PRODUCED AT NEA WITH NDEC  
Photon emission for (n,x)



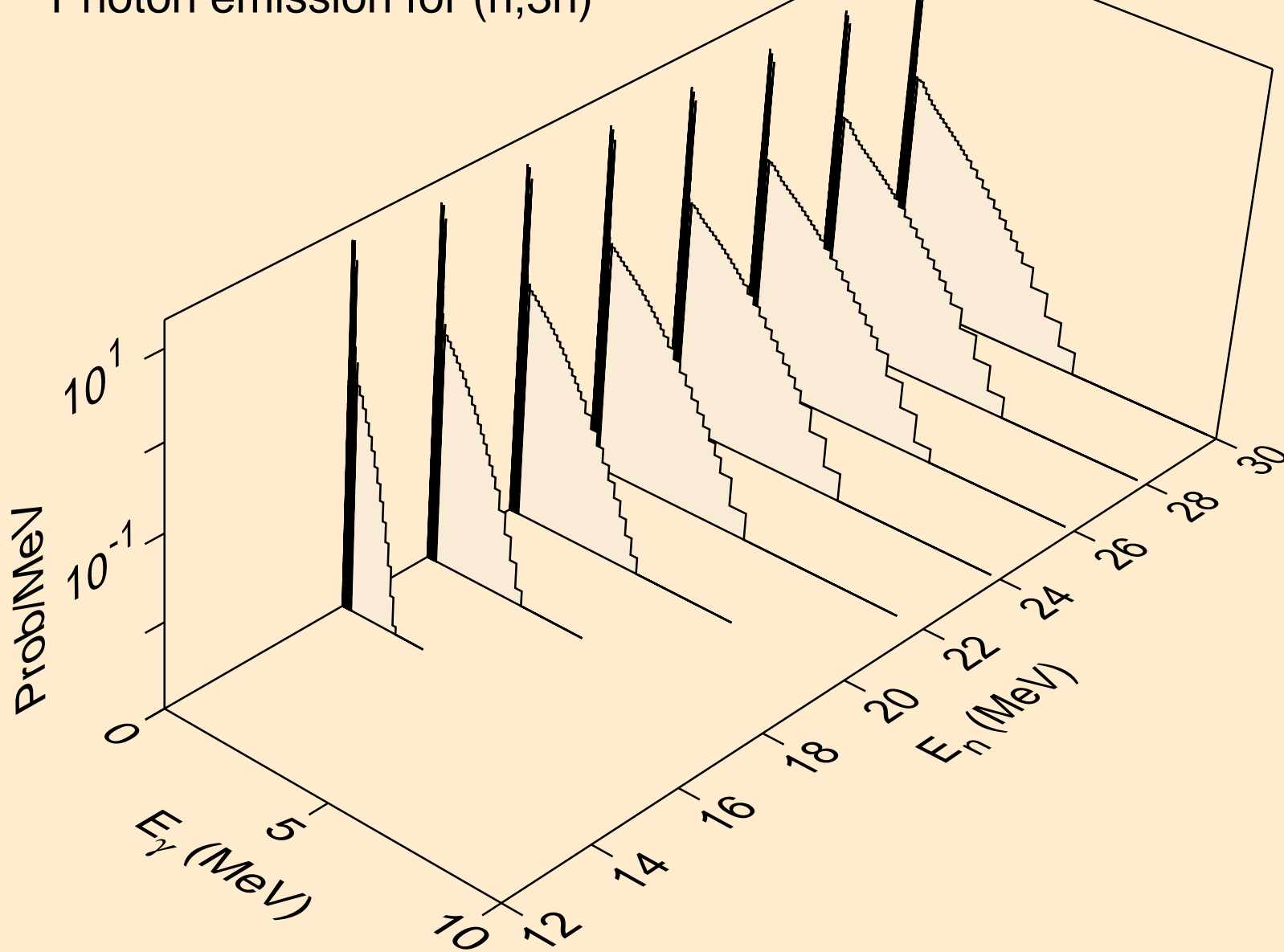
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Photon emission for (n,2nd)



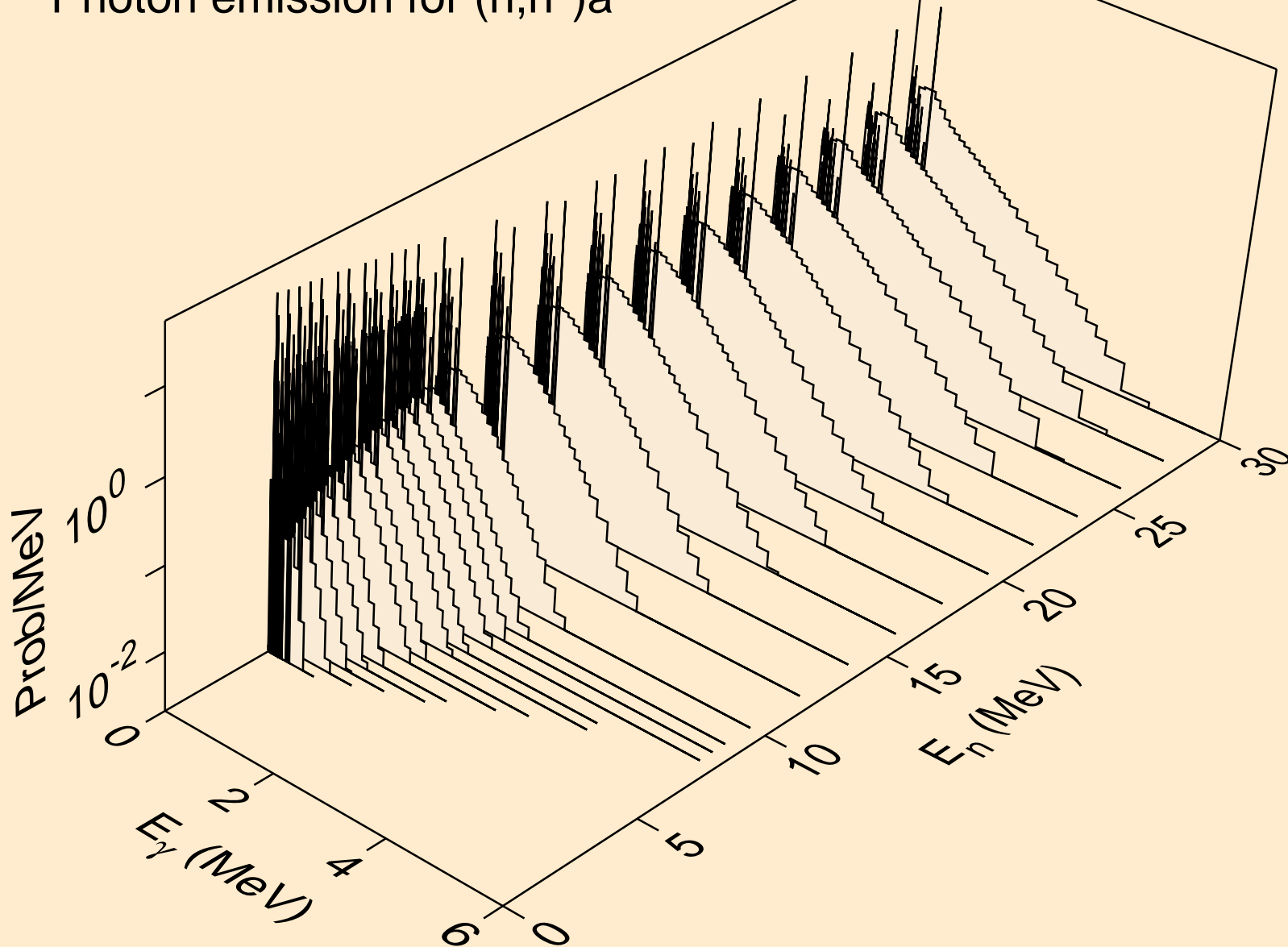
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Photon emission for (n,2n)



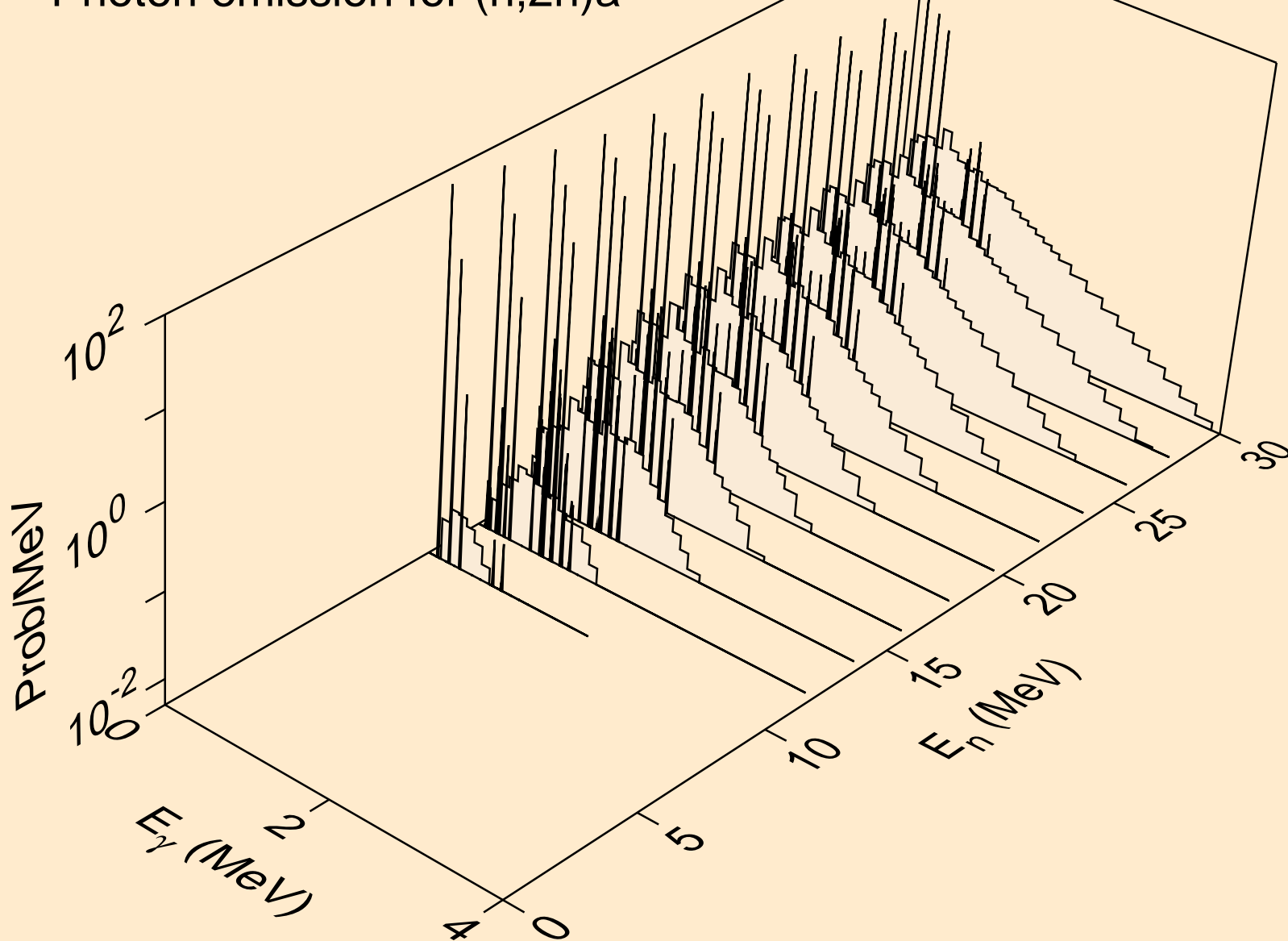
MAT=7640 ACE FILE PRODUCED AT NEA WITH NDEC  
Photon emission for (n,3n)



MAT=7640 ACE FILE PRODUCED AT NEA WITH NDEC  
Photon emission for (n,n\*)a

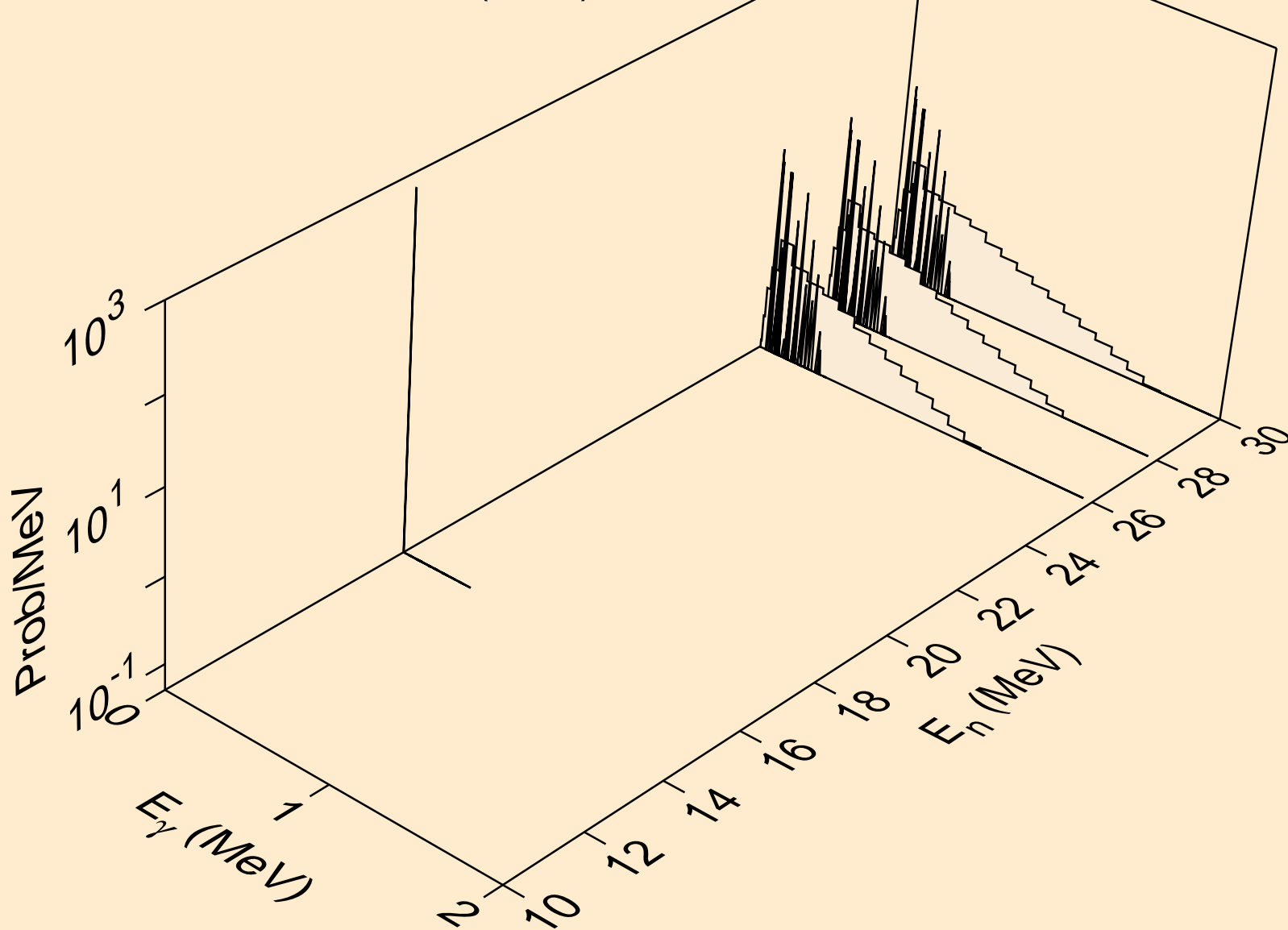


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Photon emission for (n,2n)a

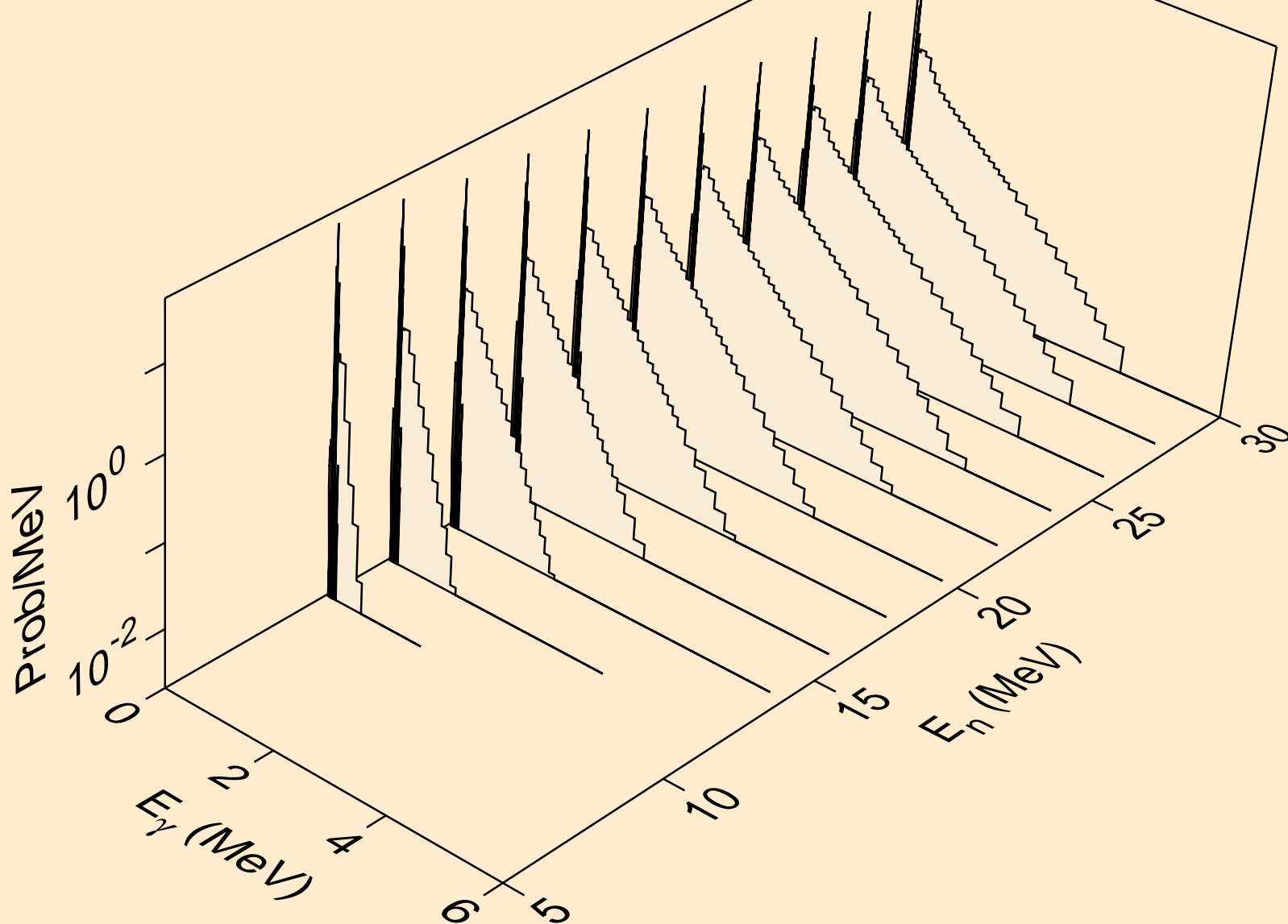




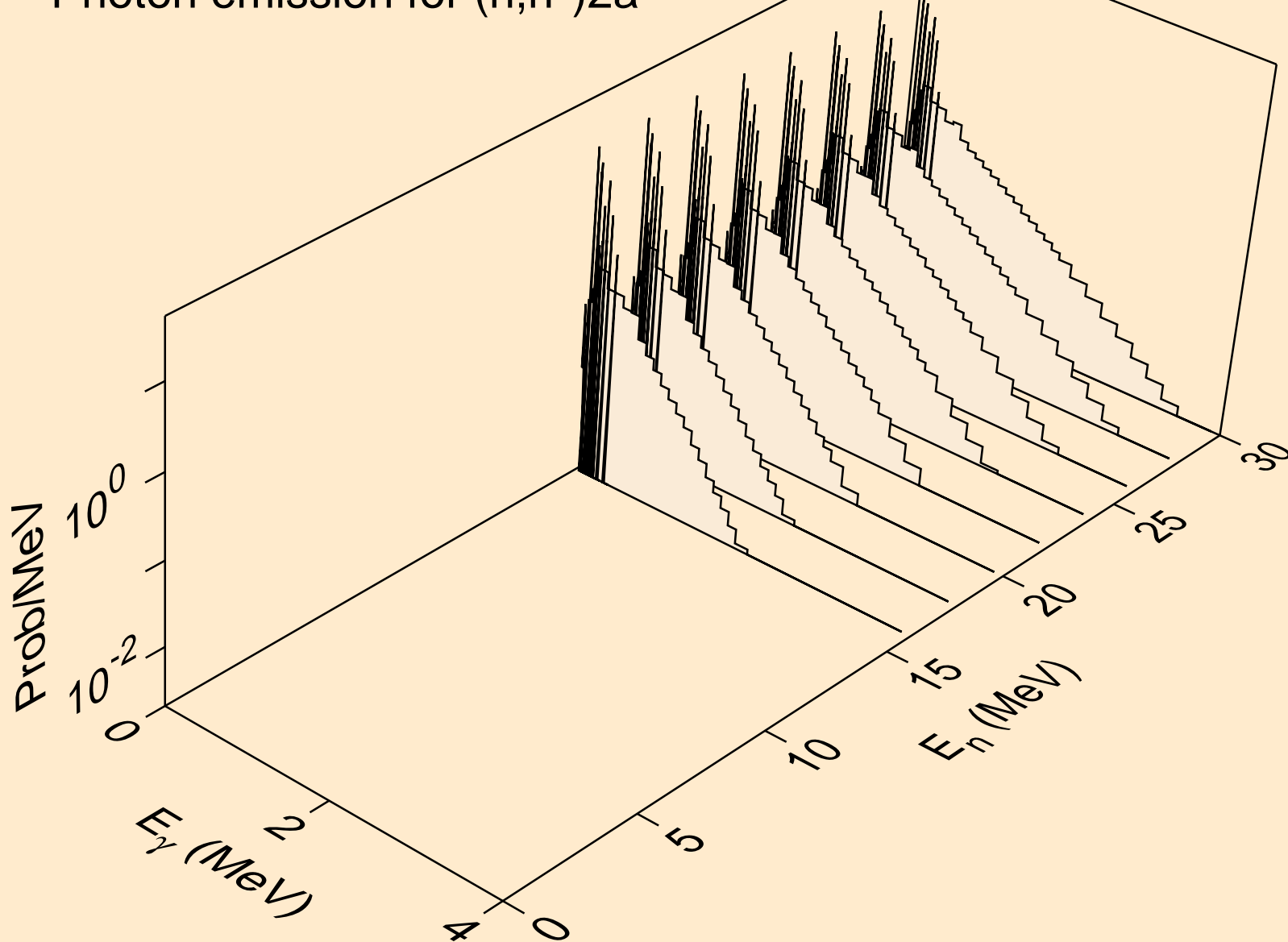
MAT=7640 ACE FILE PRODUCED AT NEA WITH NDEC  
Photon emission for (n,3n)a



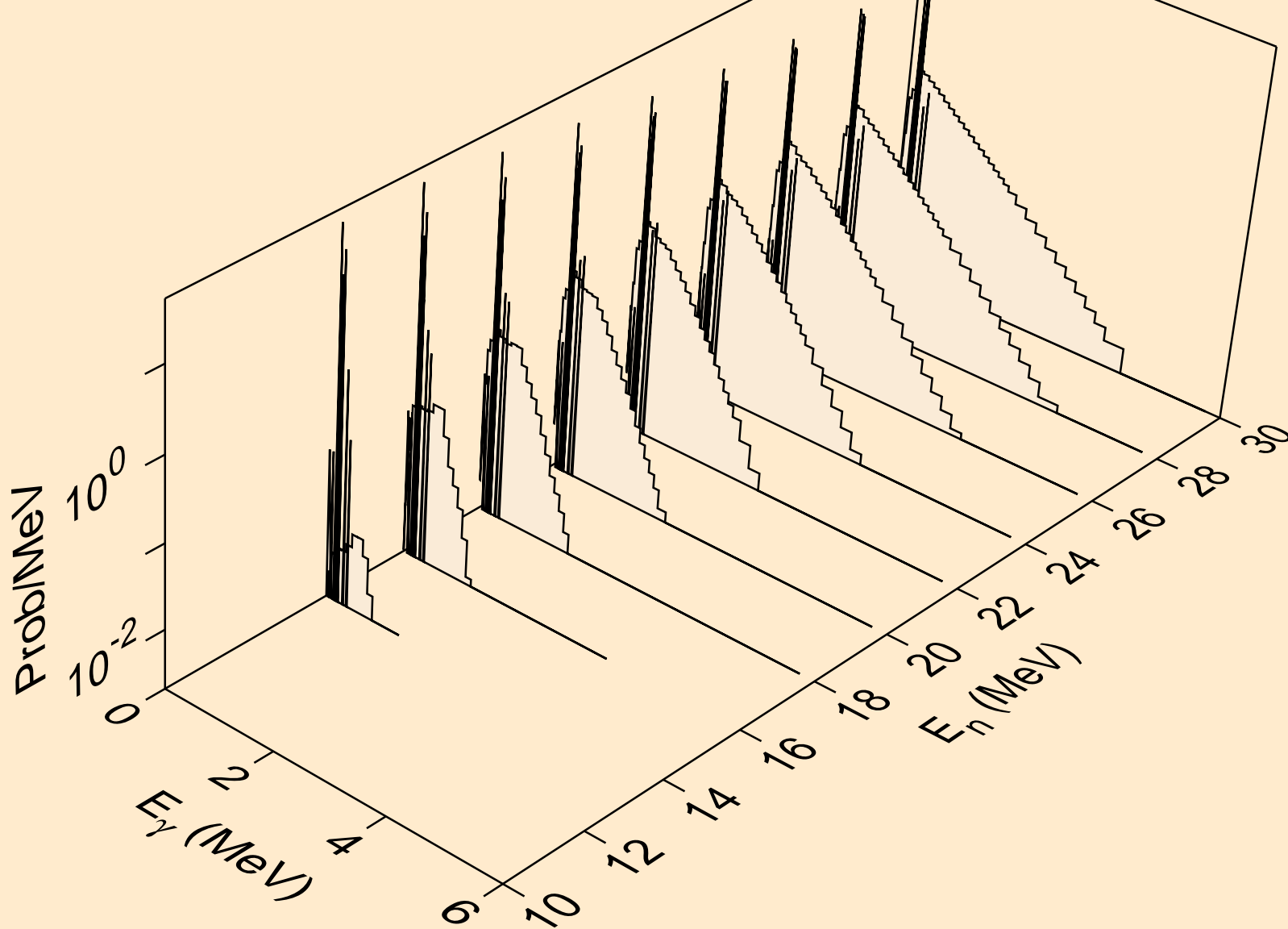
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Photon emission for (n,n\*)p



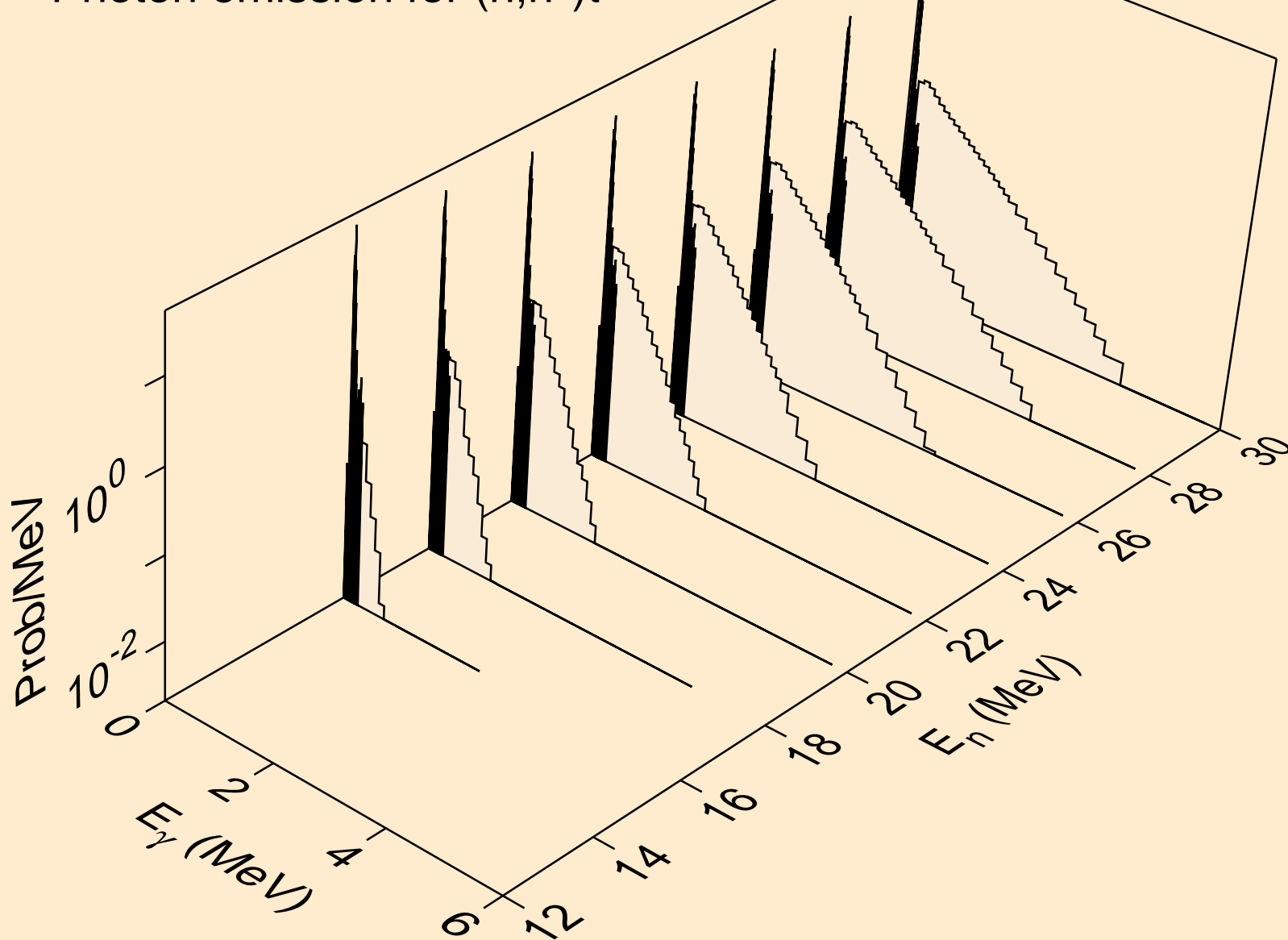
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Photon emission for (n,n\*)2a



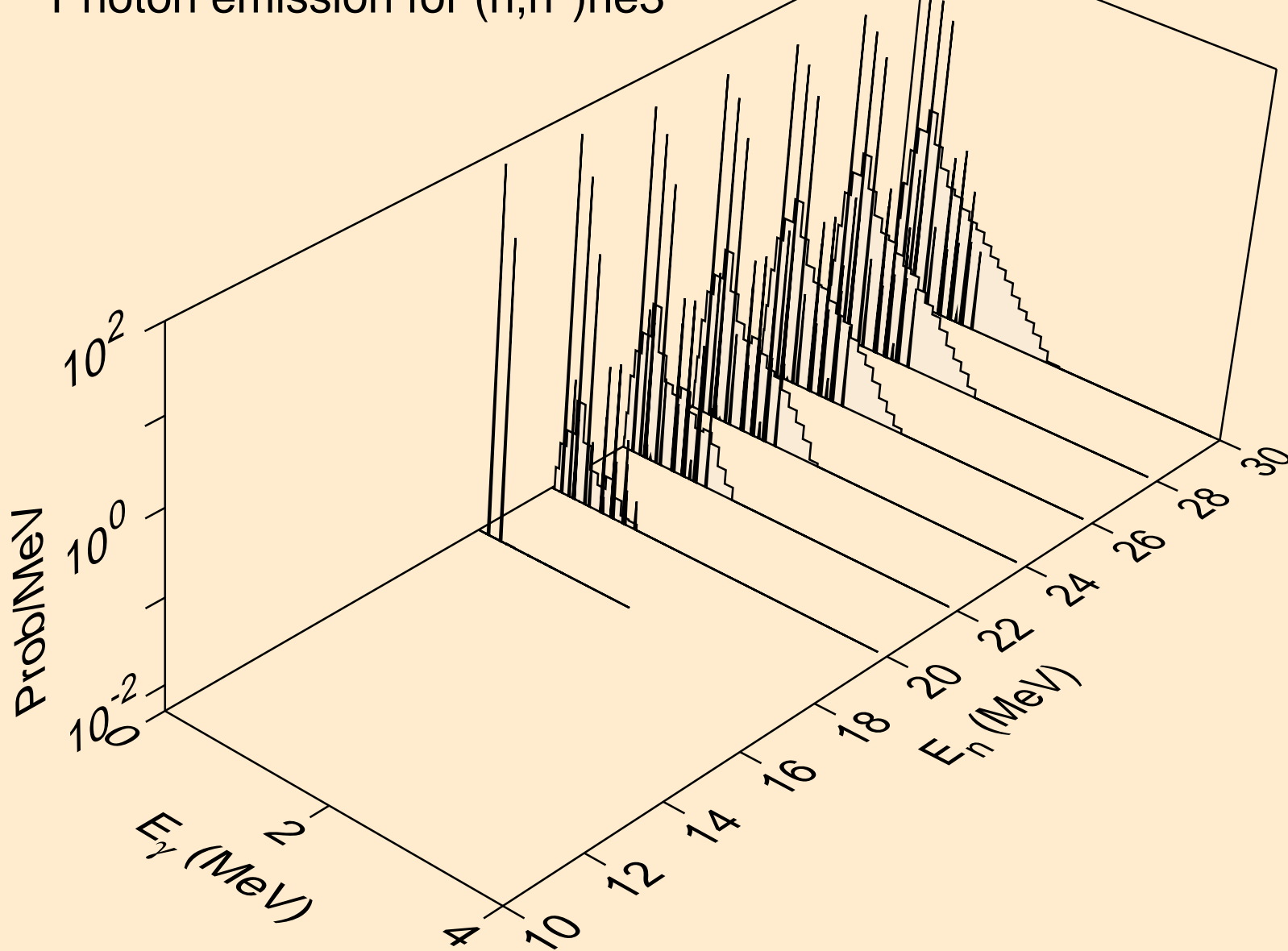
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Photon emission for (n,n\*)d



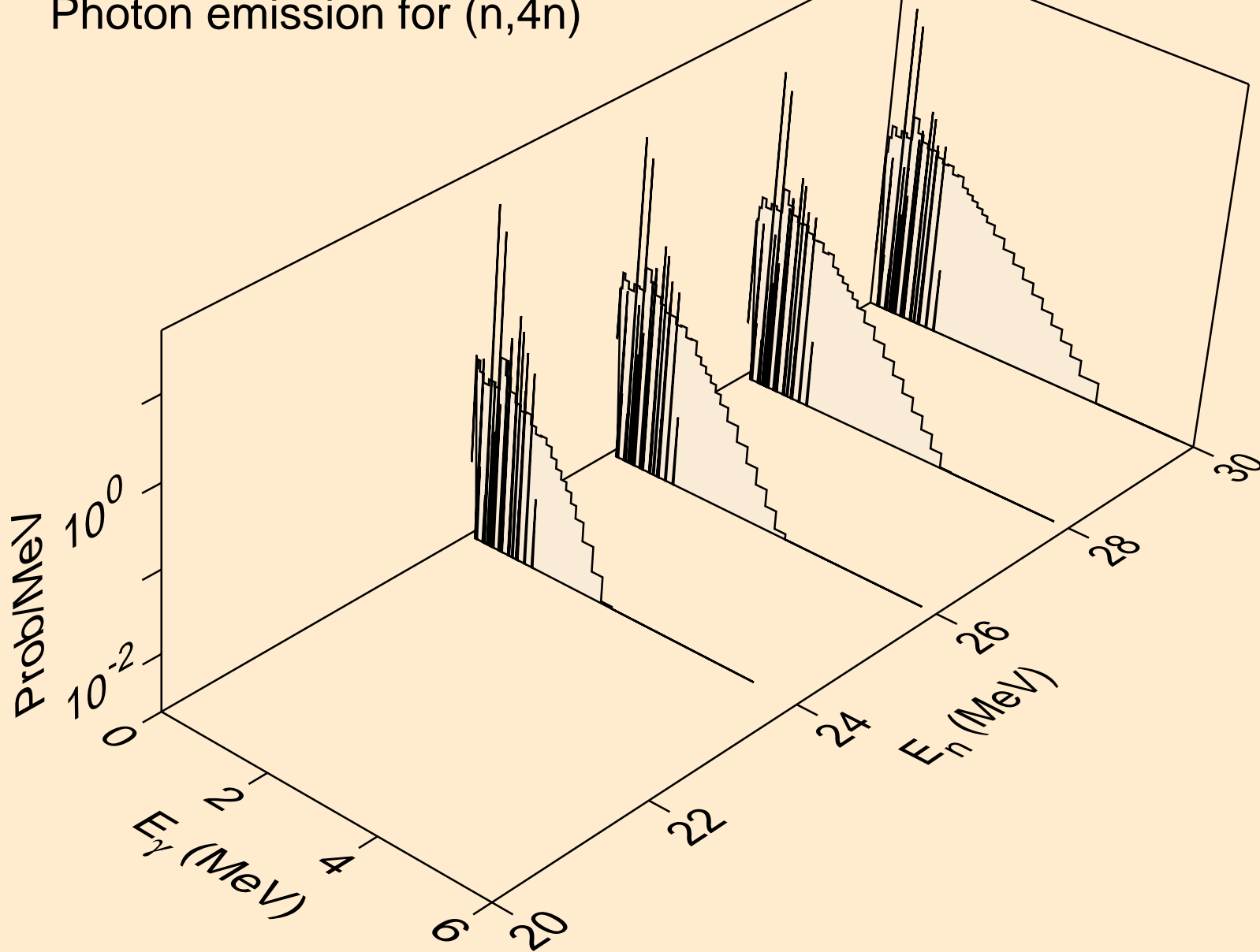
MAT=7640 ACE FILE PRODUCED AT NEA WITH NDEC  
Photon emission for (n,n\*)t



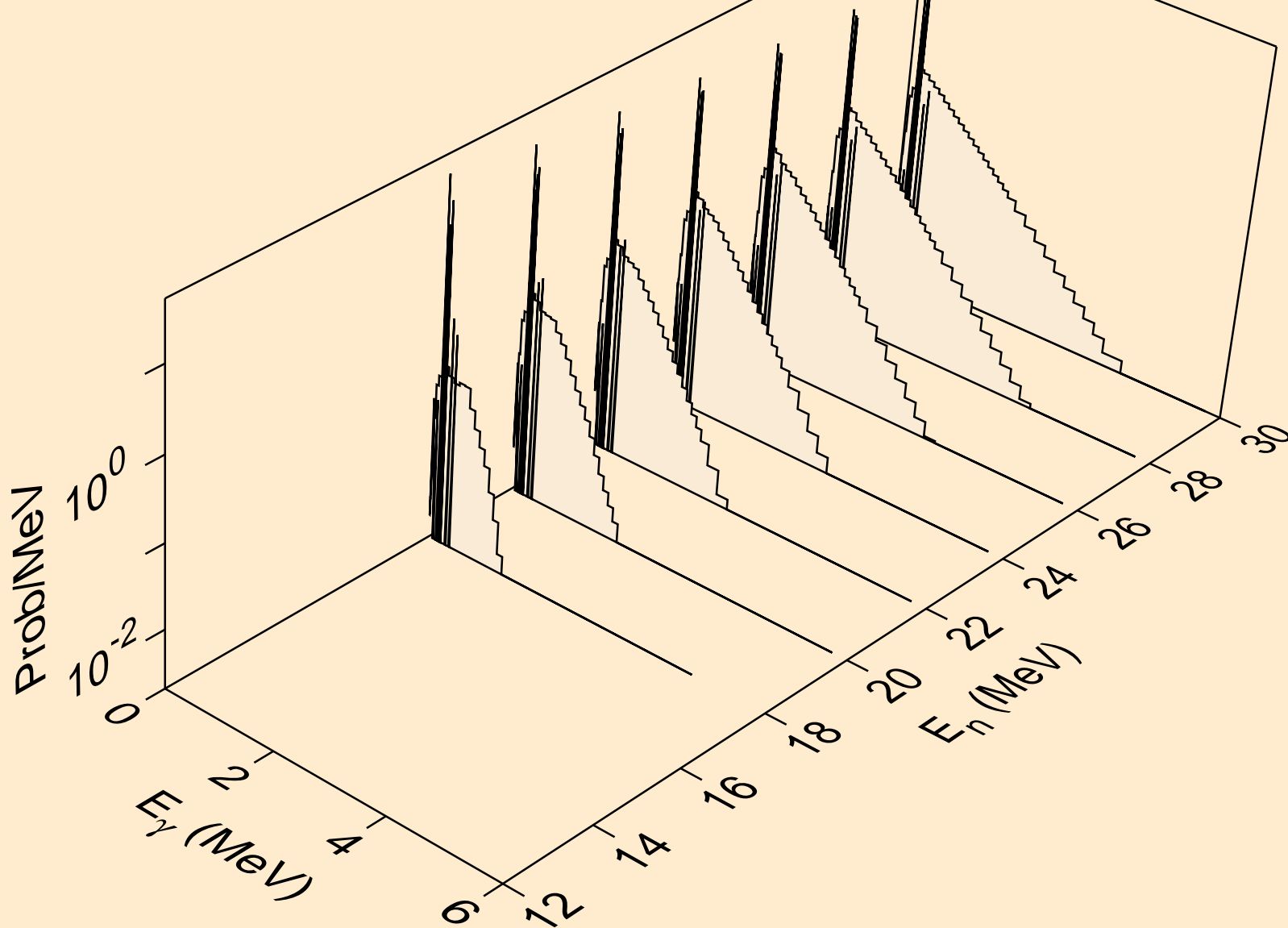
MAT=7640 ACE FILE PRODUCED AT NEA WITH NDEC  
Photon emission for (n,n\*)he3



MAT=7640 ACE FILE PRODUCED AT NEA WITH NDEC  
Photon emission for (n,4n)

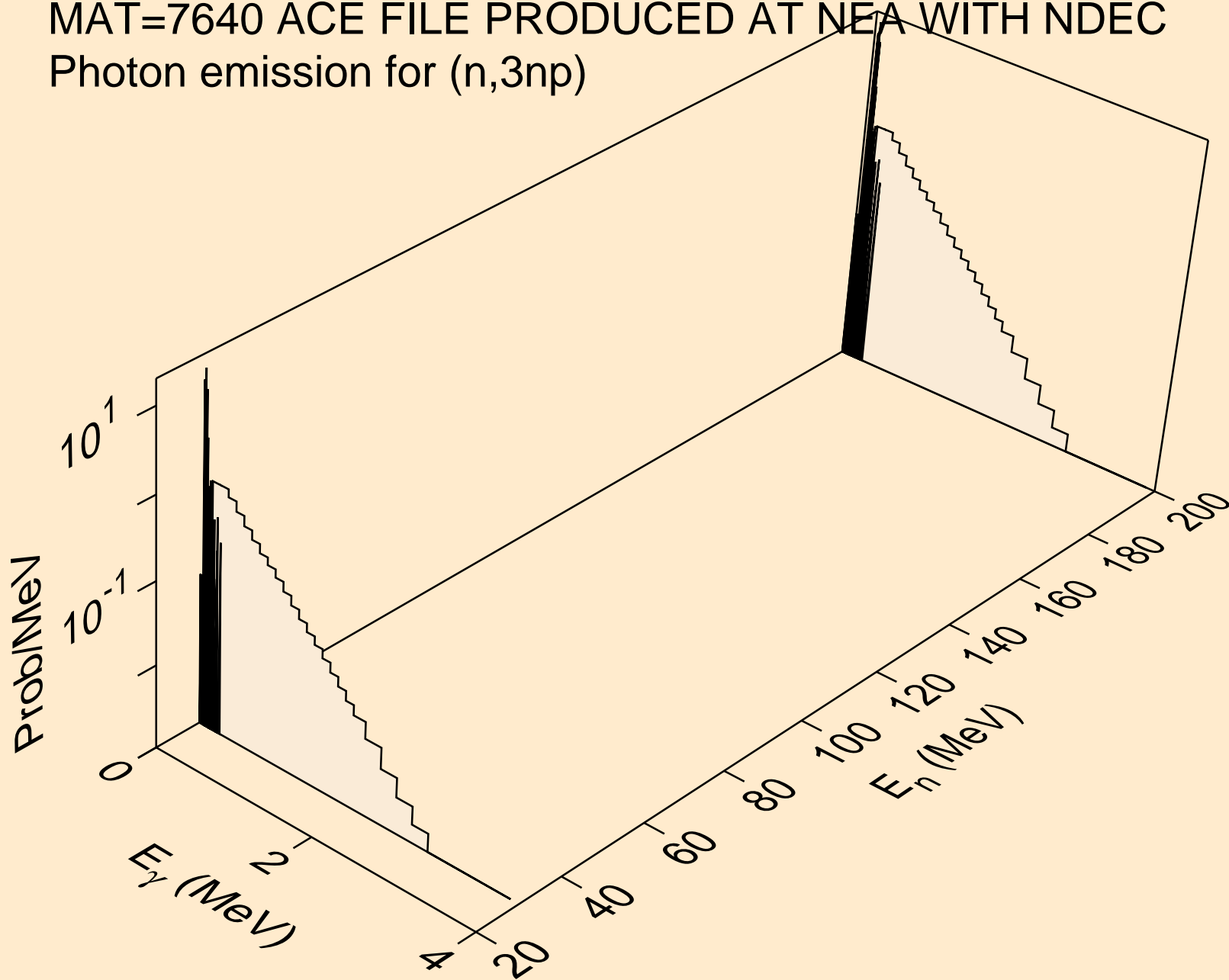


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Photon emission for (n,2np)

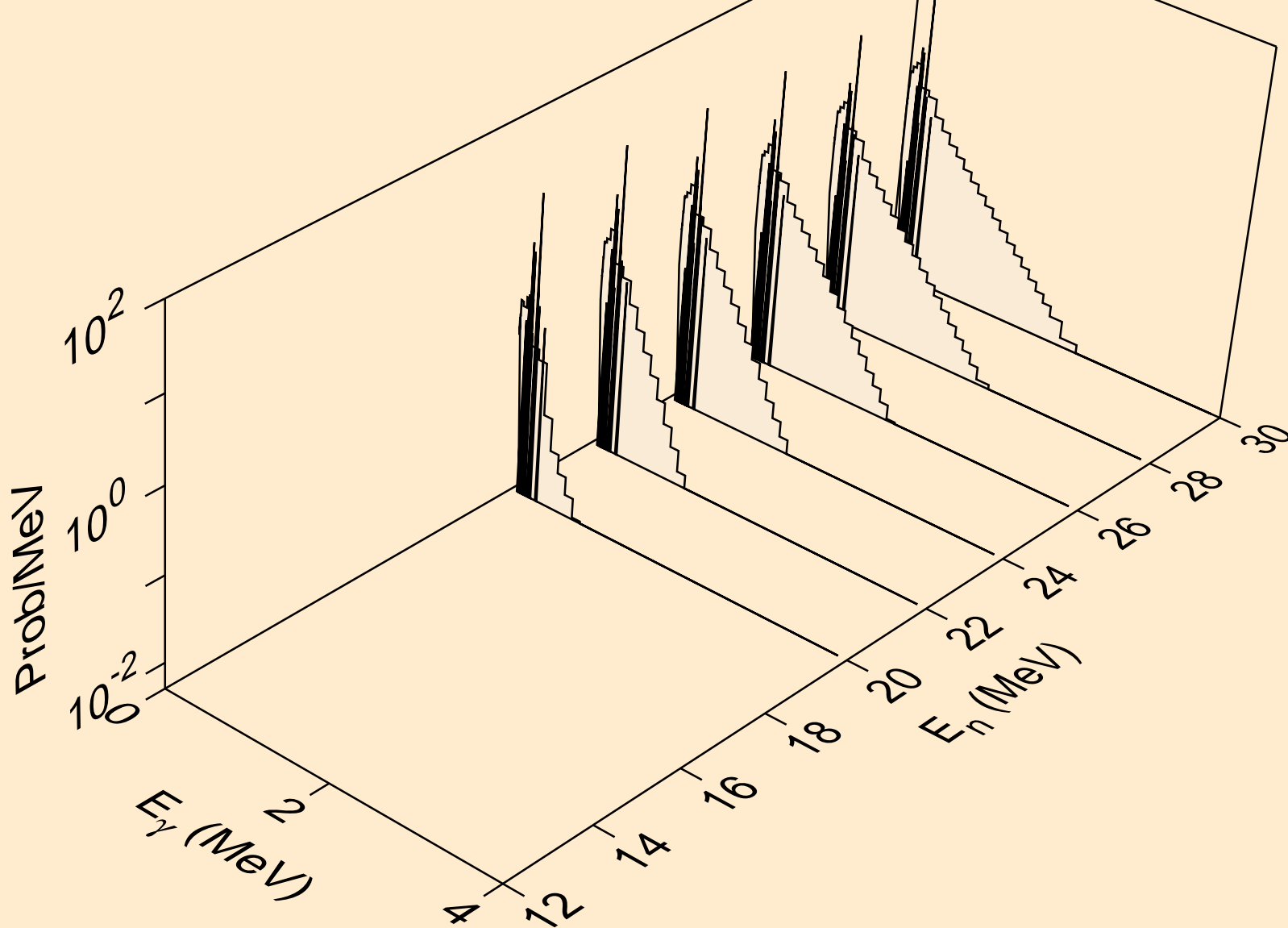




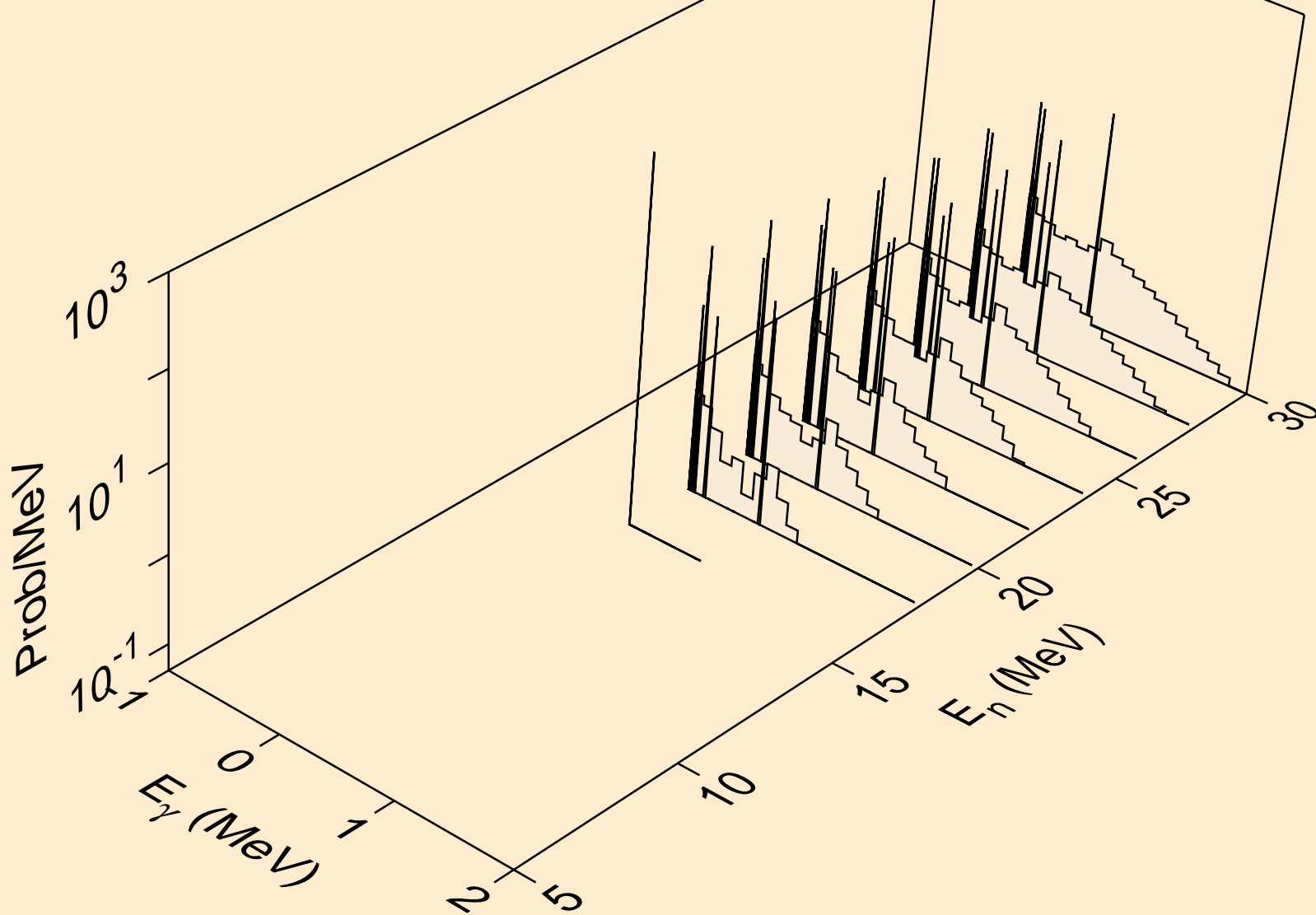
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Photon emission for (n,3np)



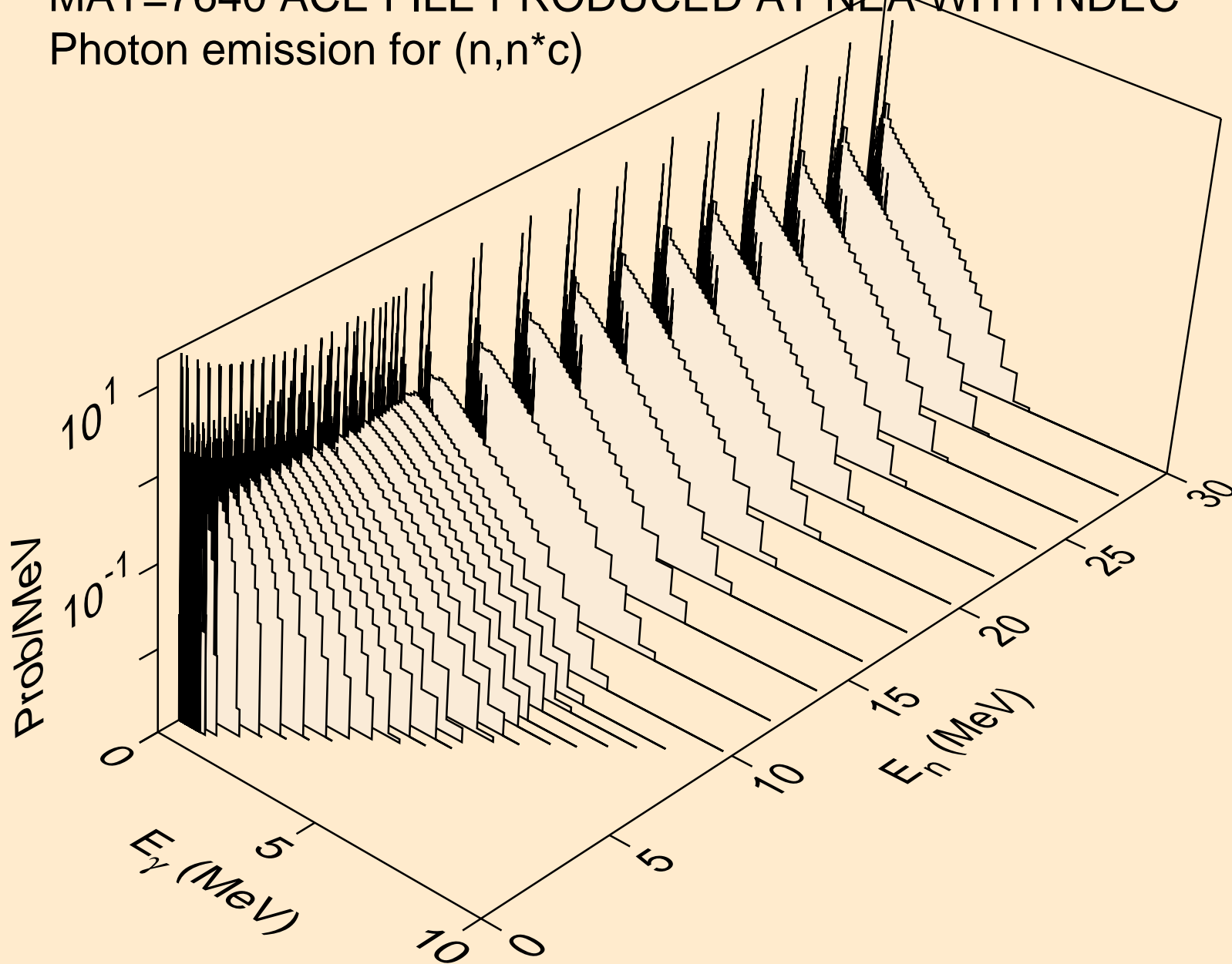
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Photon emission for (n,2np)



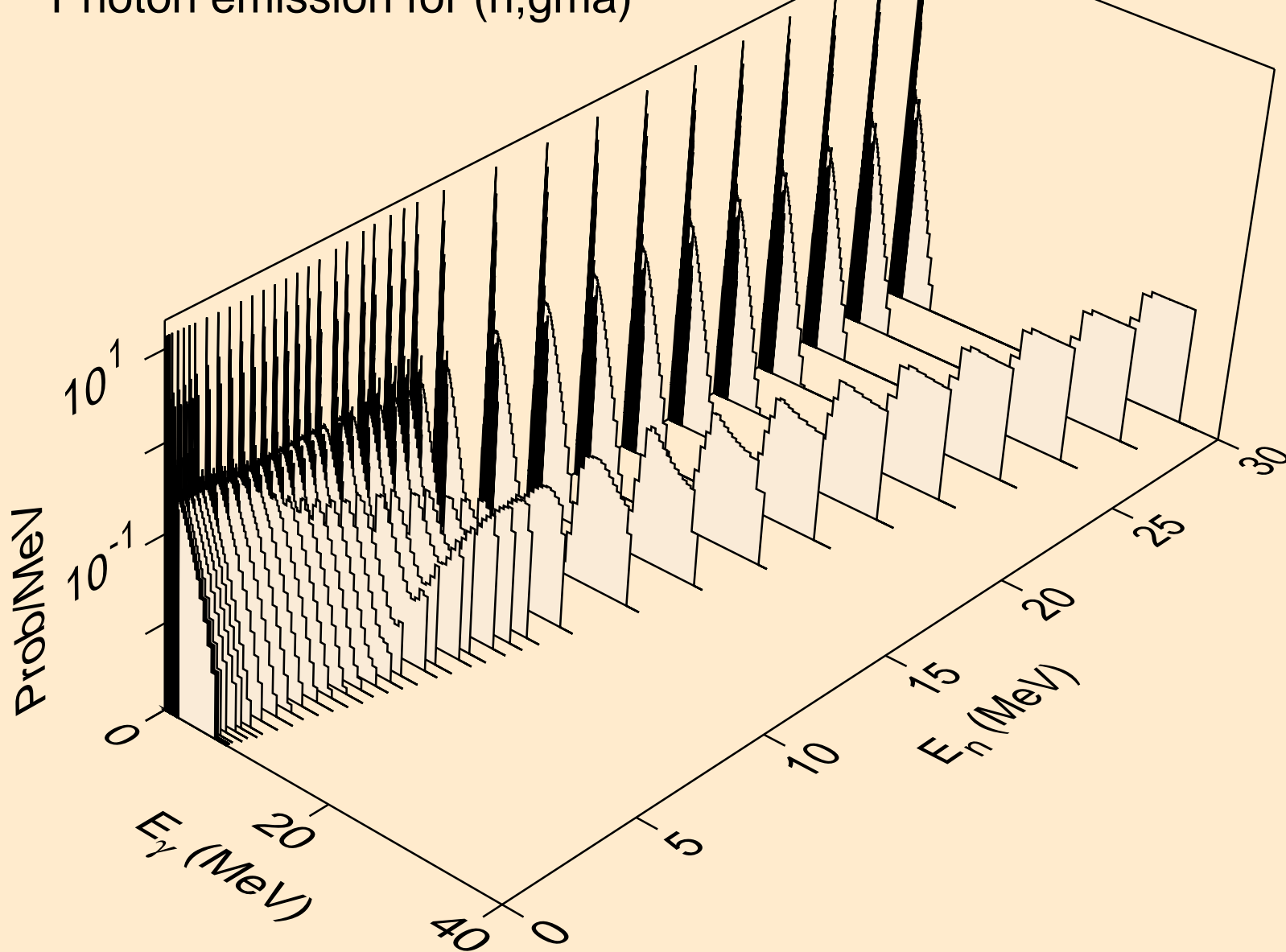
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Photon emission for (n,npa)



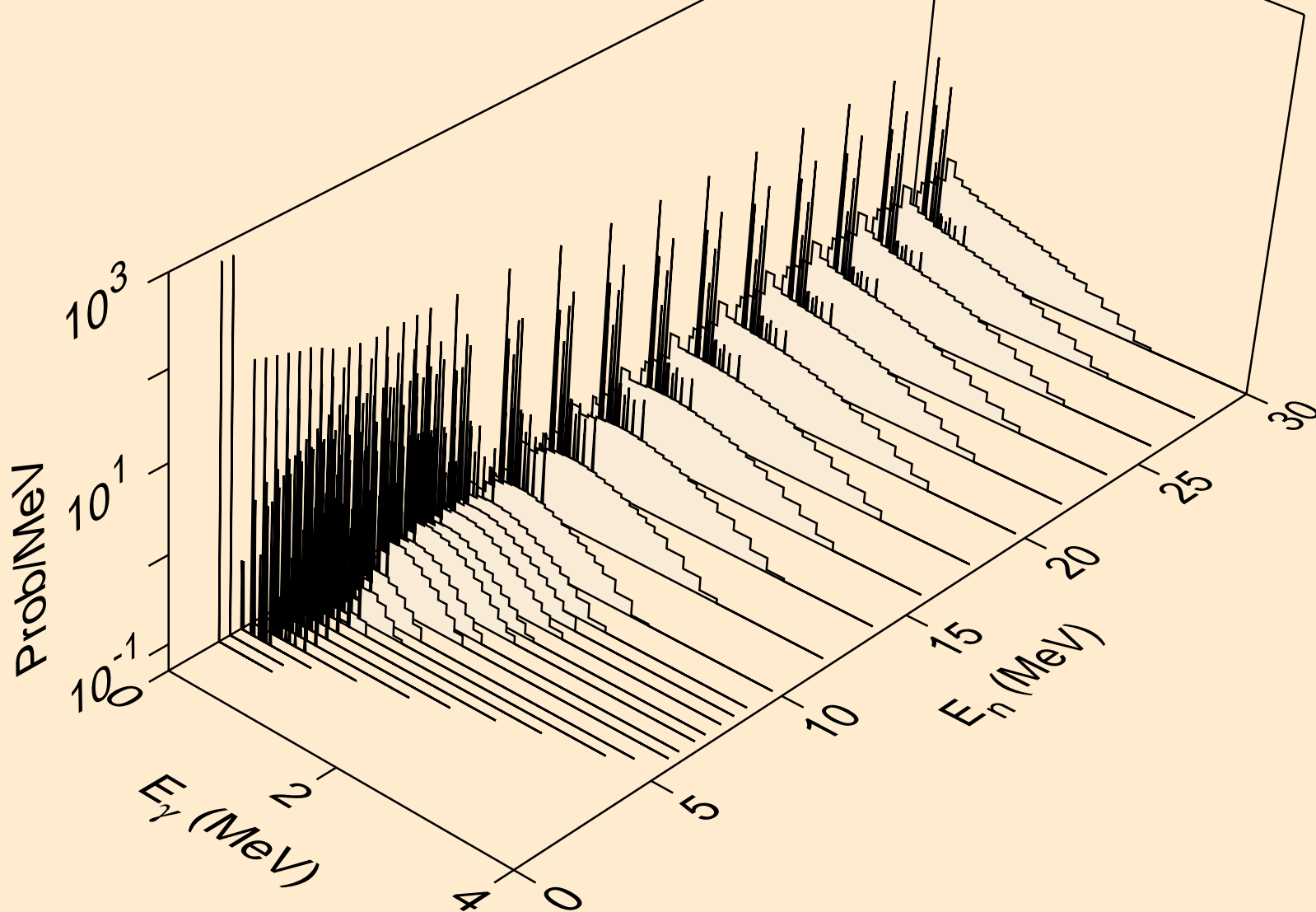
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Photon emission for (n,n\*c)



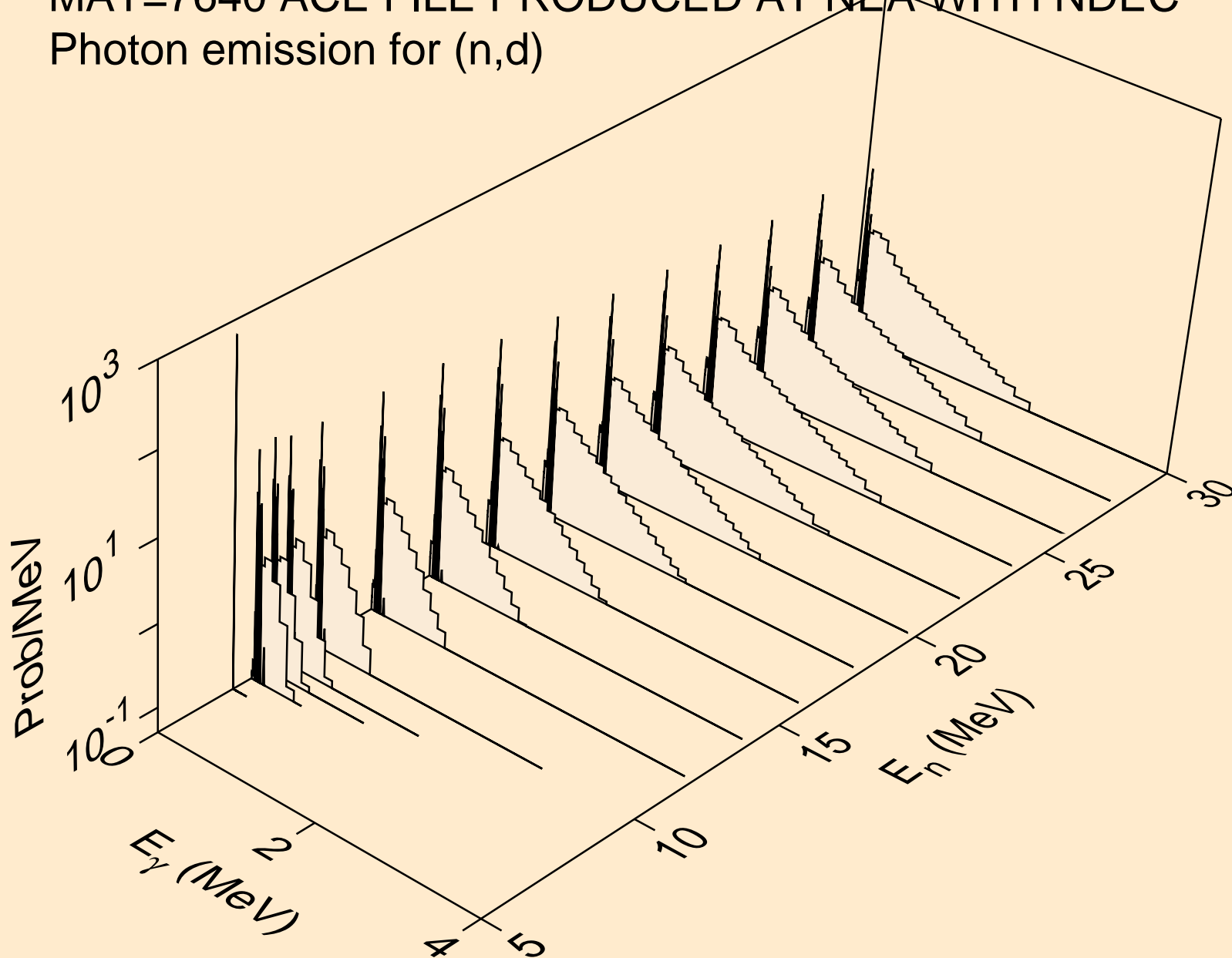
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Photon emission for (n,gma)



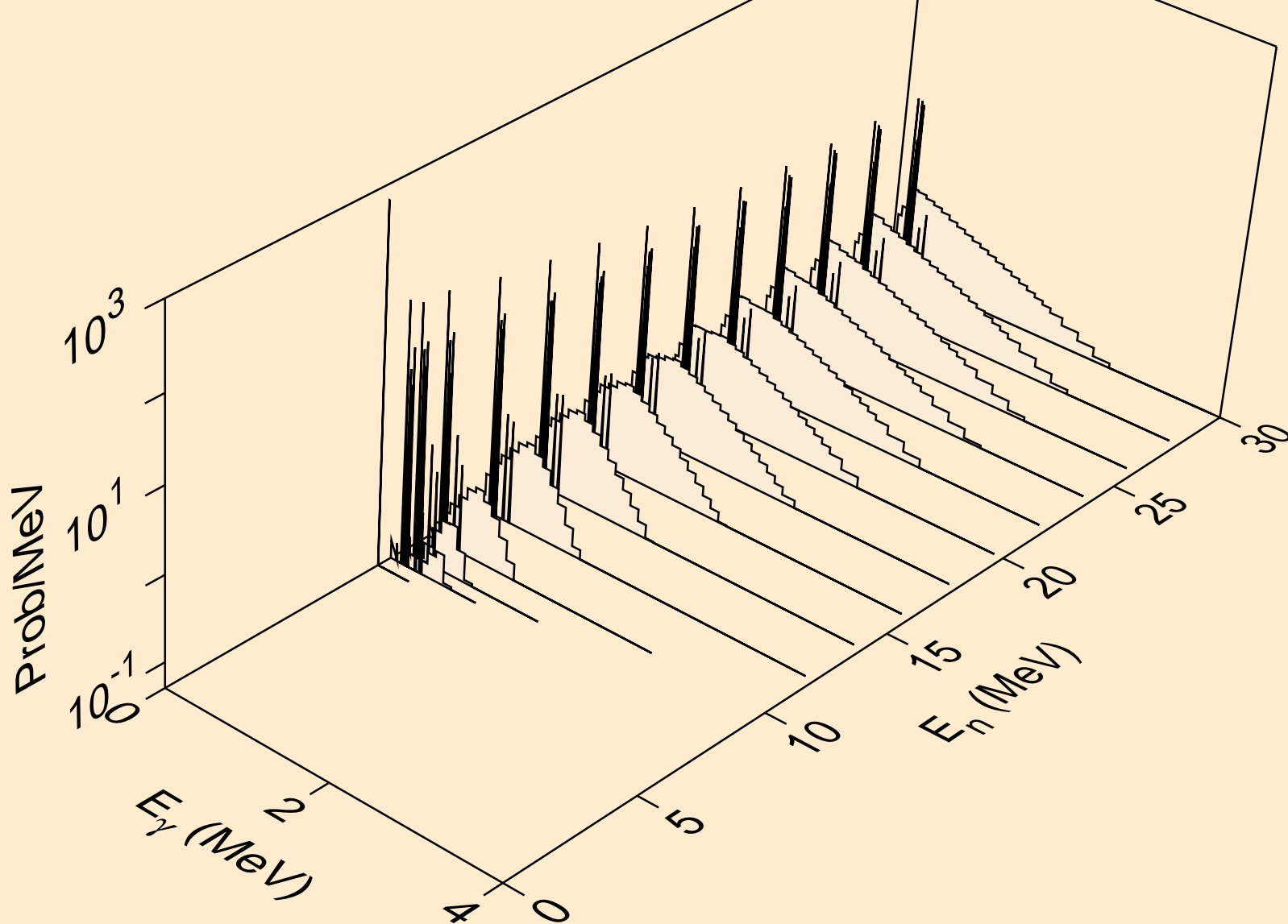
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Photon emission for (n,p)



MAT=7640 ACE FILE PRODUCED AT NEA WITH NDEC  
Photon emission for (n,d)

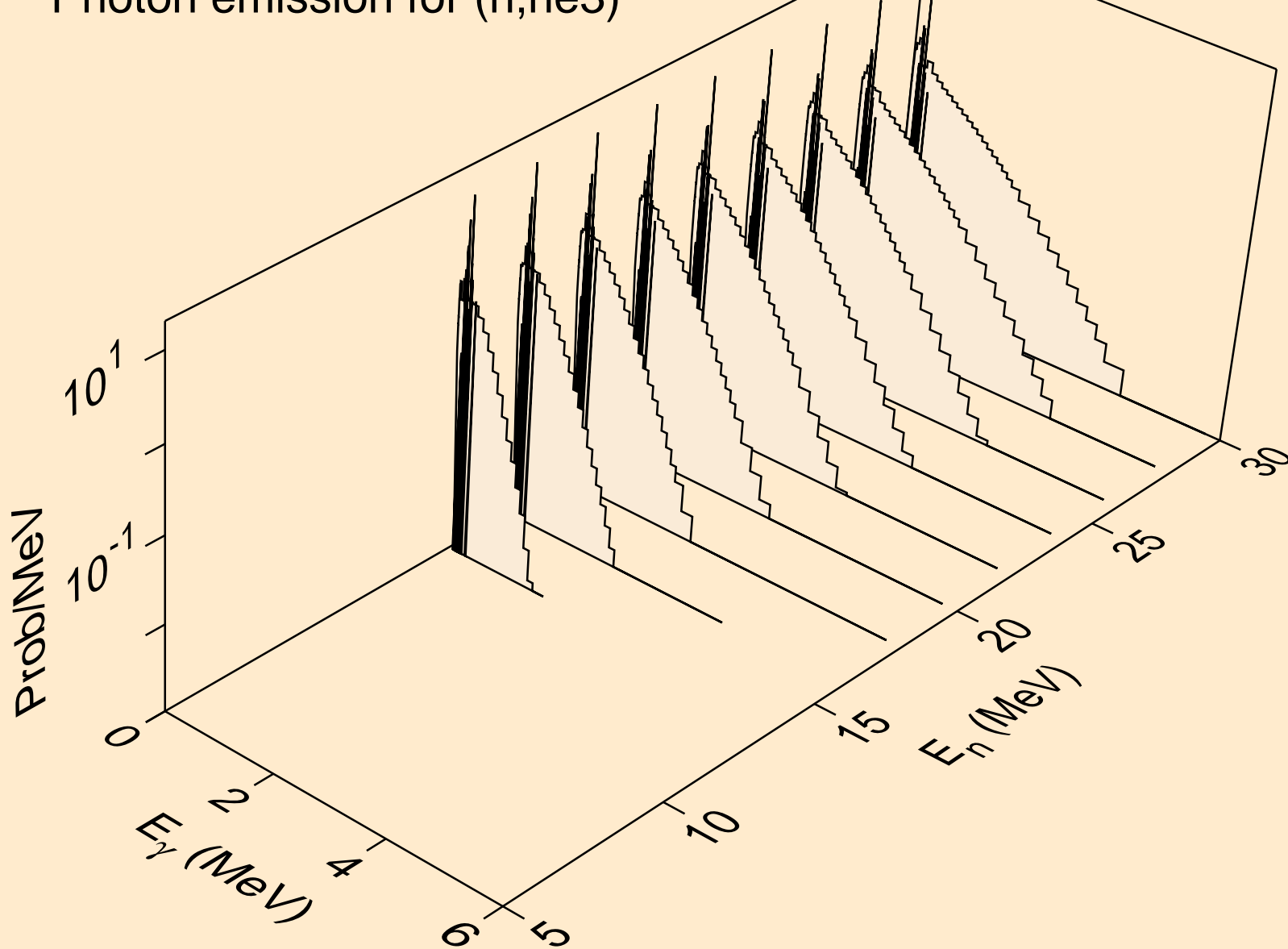


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Photon emission for (n,t)

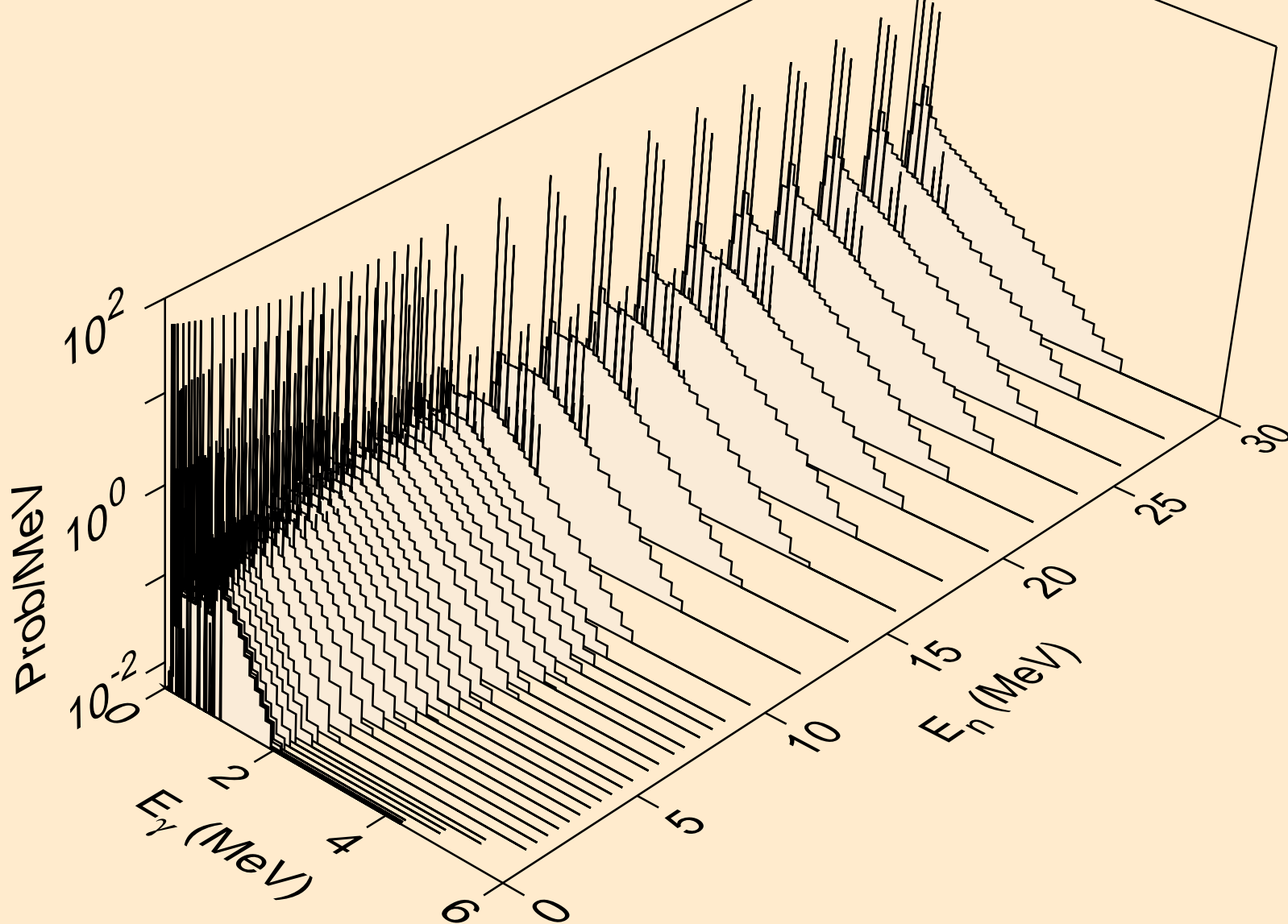




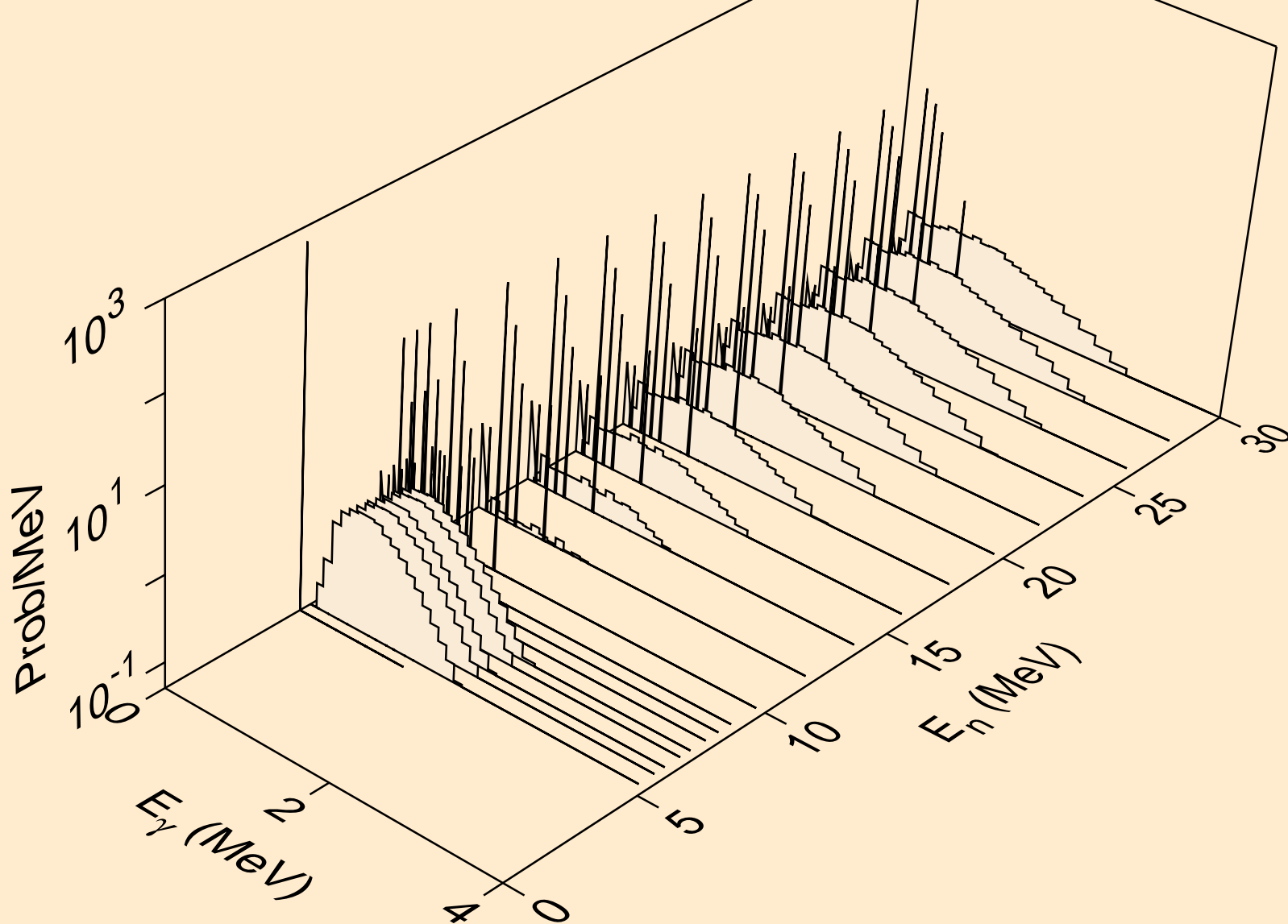
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Photon emission for (n,he3)



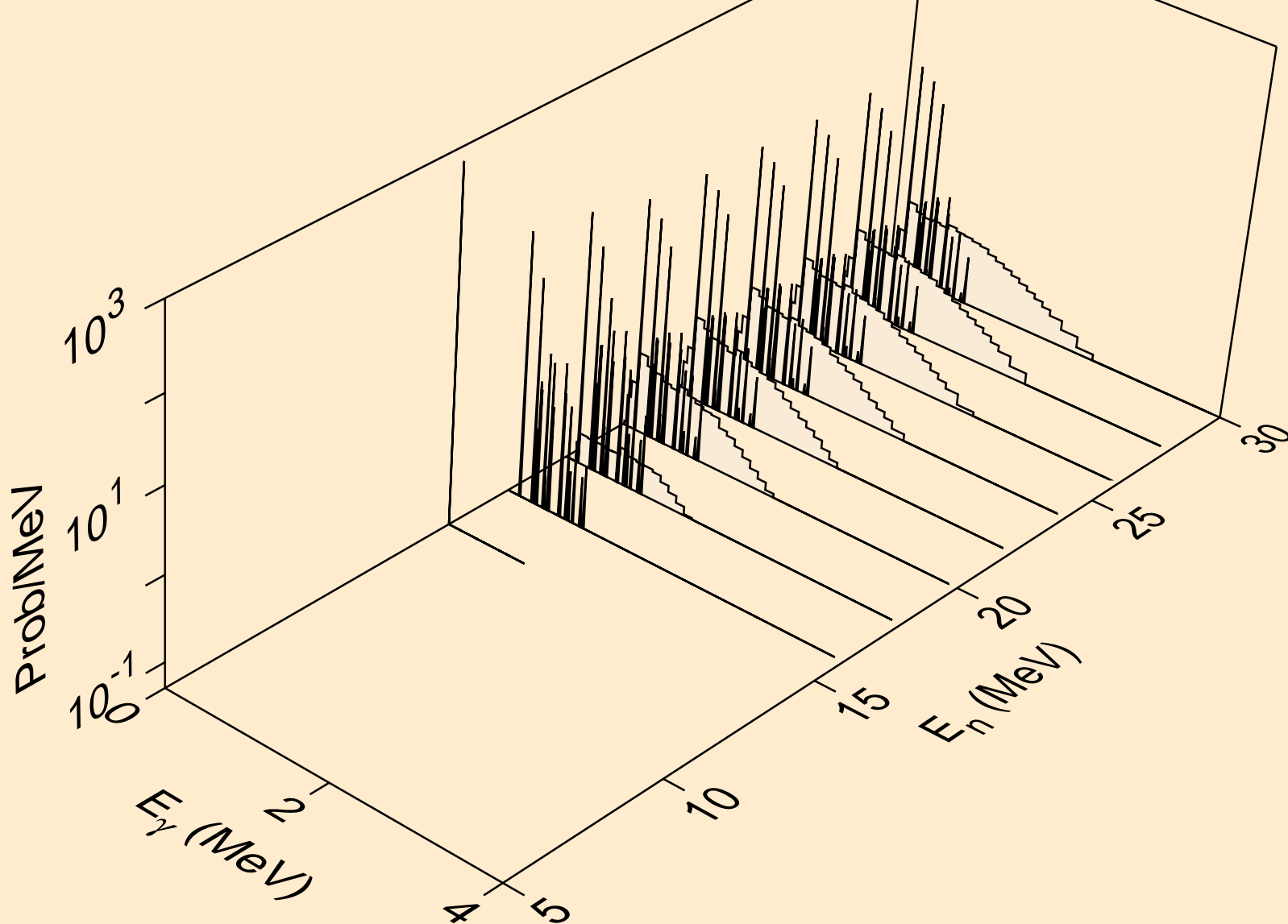
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Photon emission for (n,a)



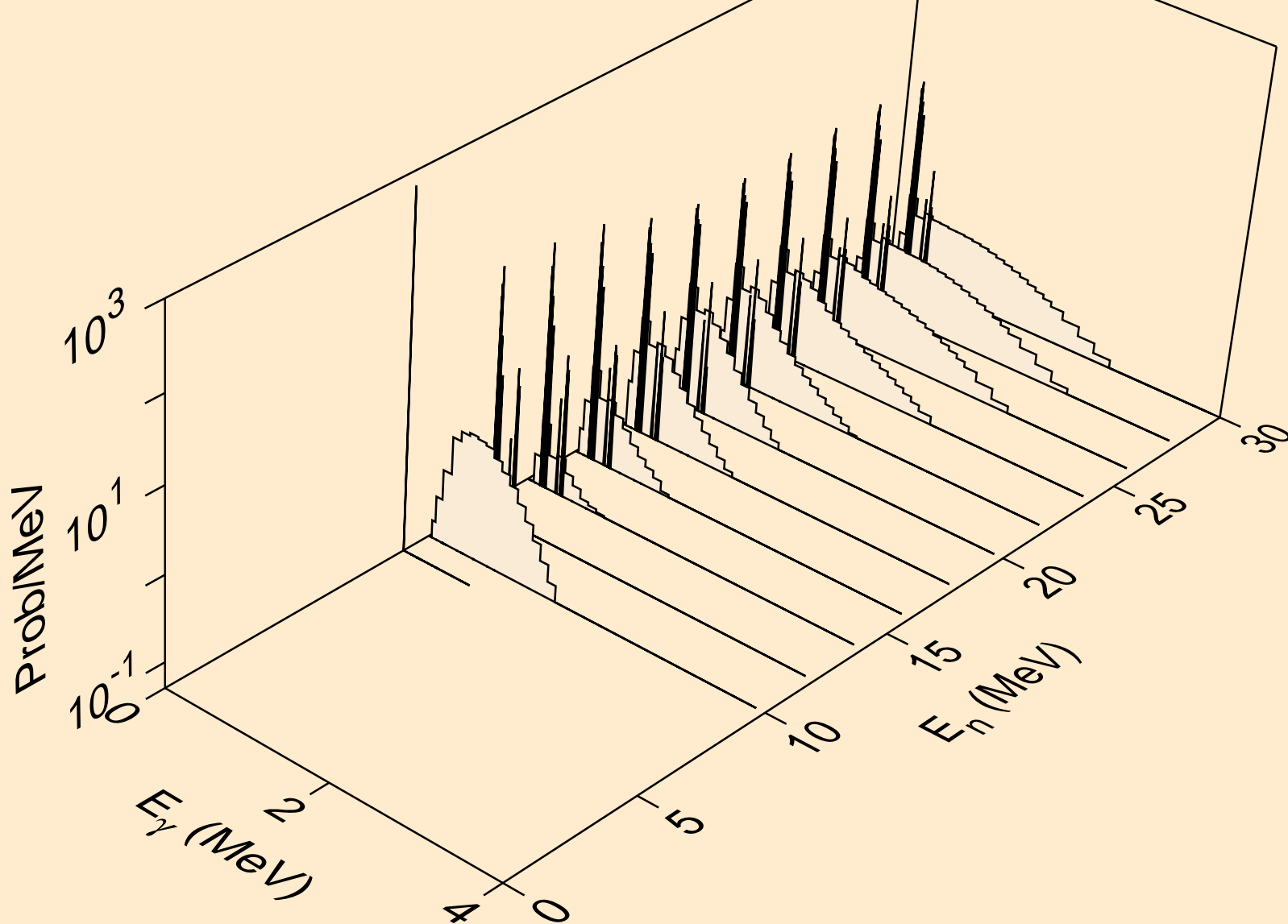
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Photon emission for (n,2a)



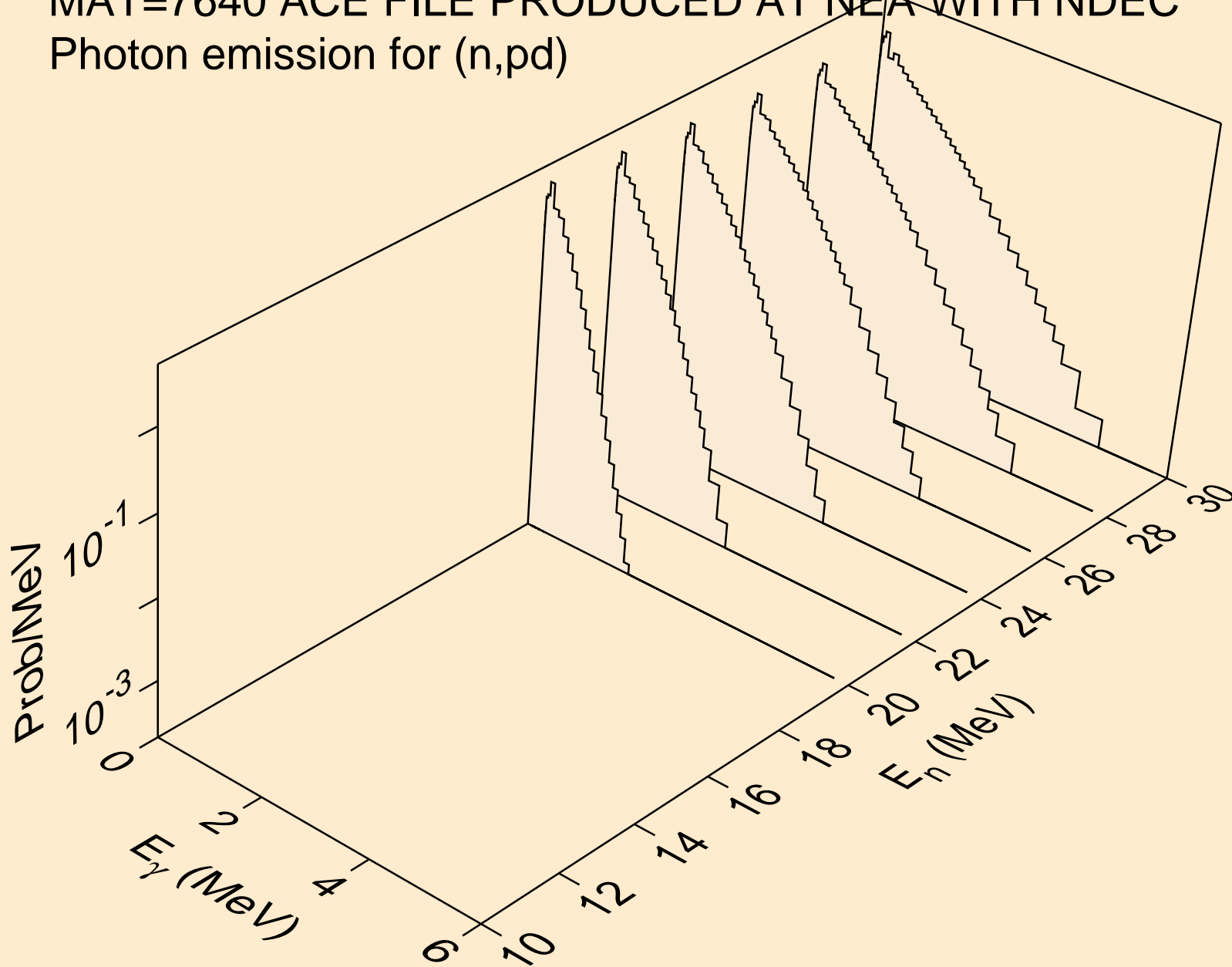
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Photon emission for (n,2p)



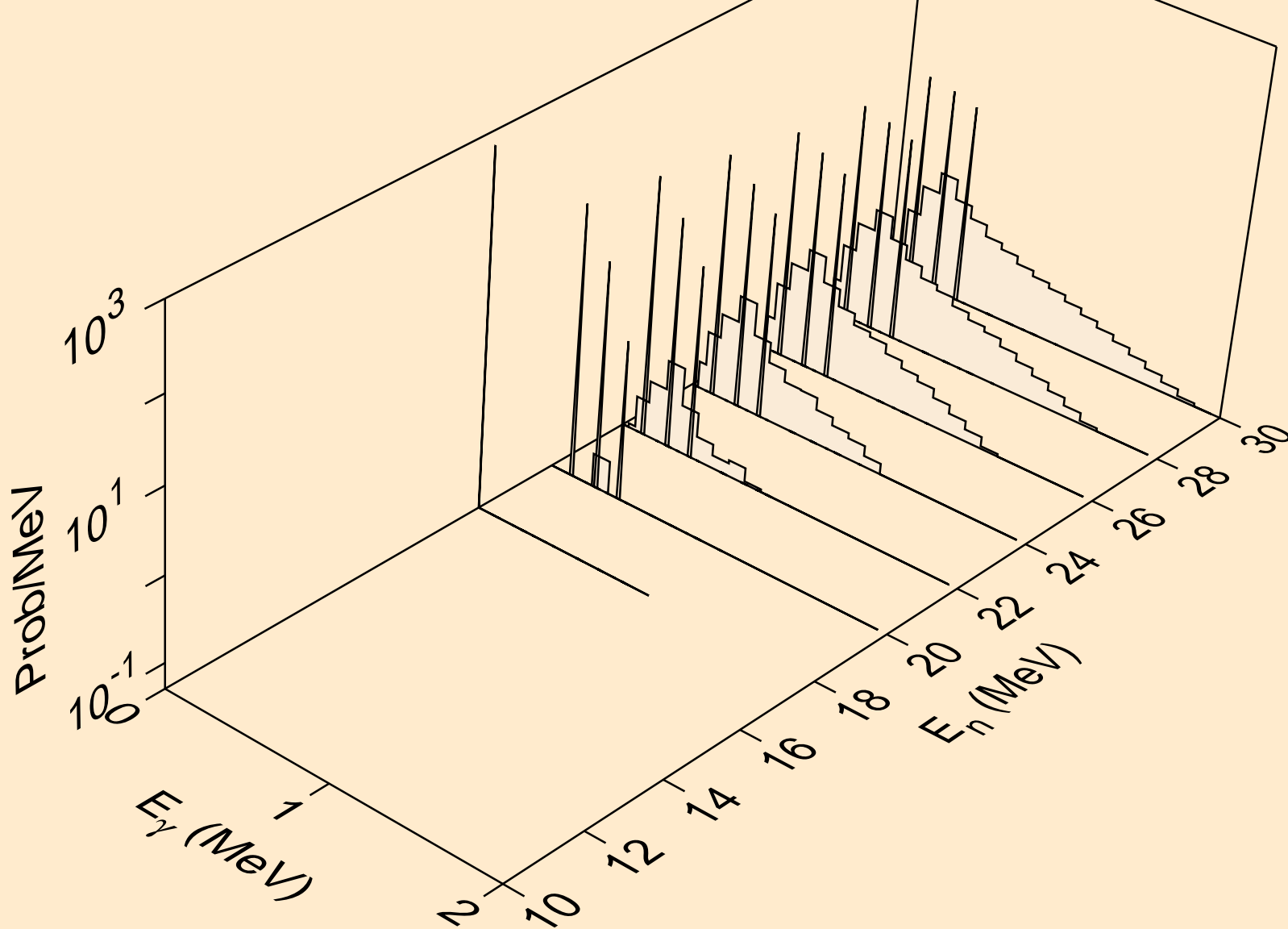
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Photon emission for (n,pa)



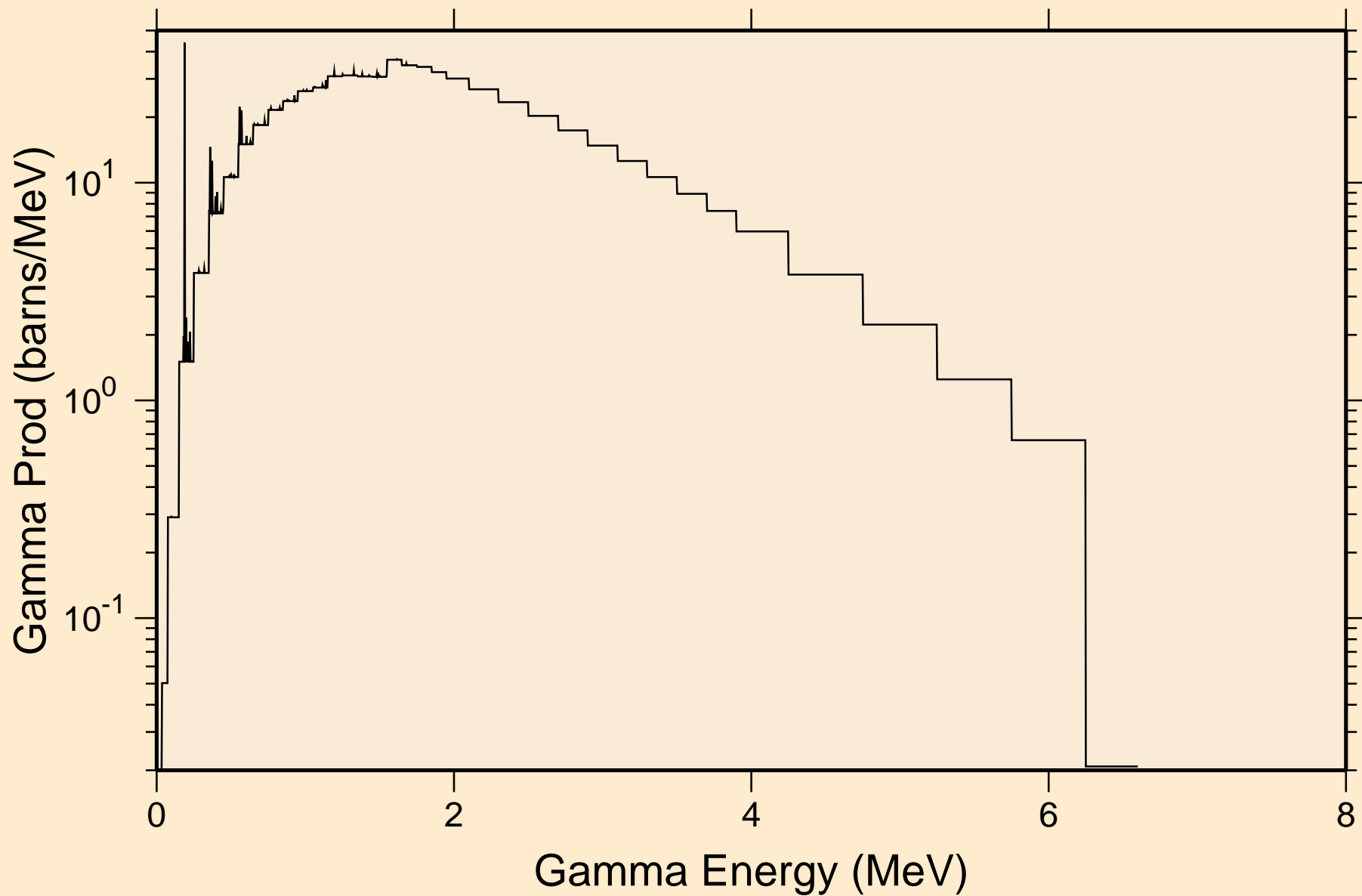
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Photon emission for (n,pd)



MAT=7640 ACE FILE PRODUCED AT NEA WITH NDEC  
Photon emission for (n,pt)

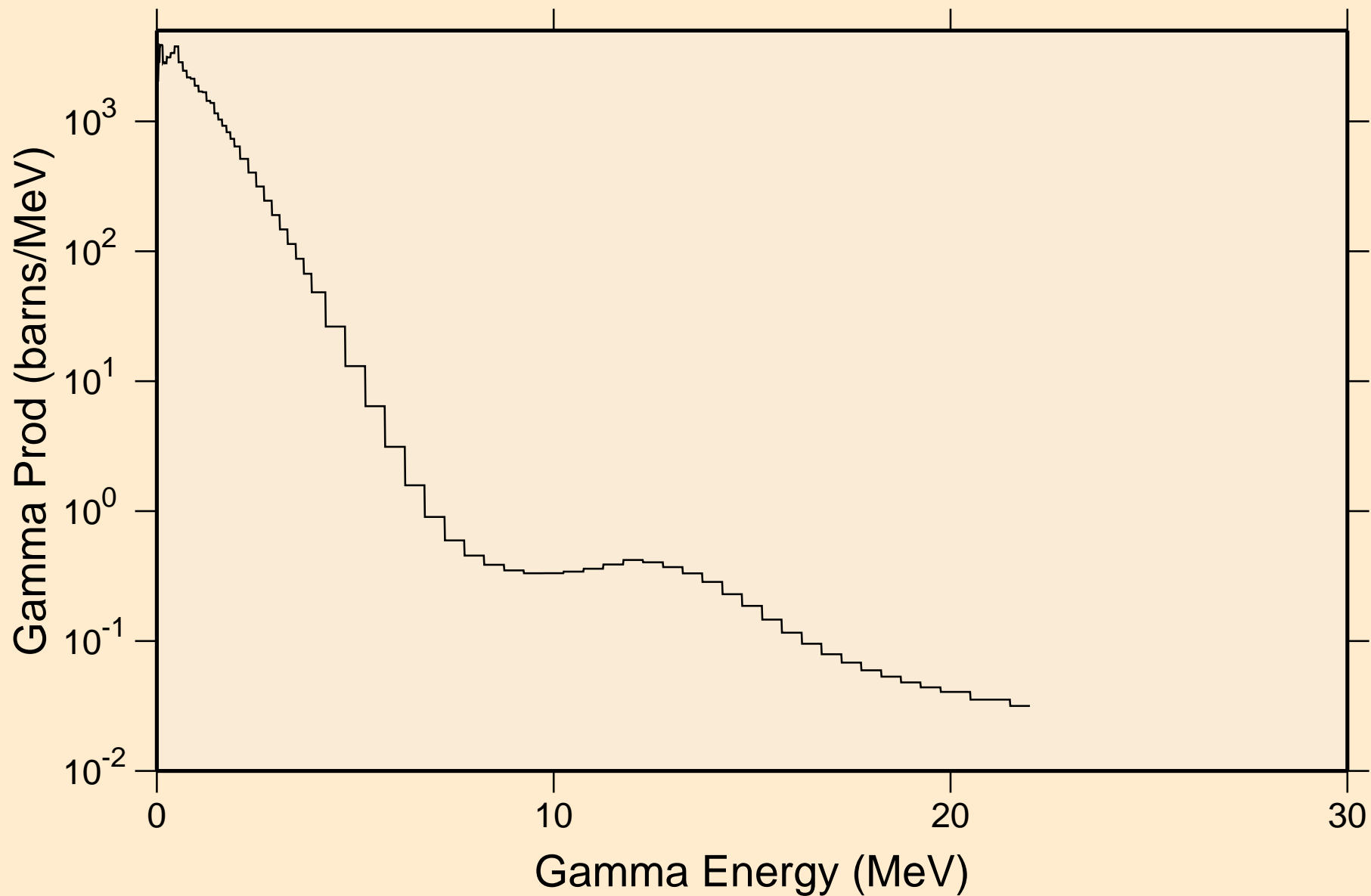


MAT=7640 ACE FILE PRODUCED AT NEA WITH NDEC  
thermal capture photon spectrum

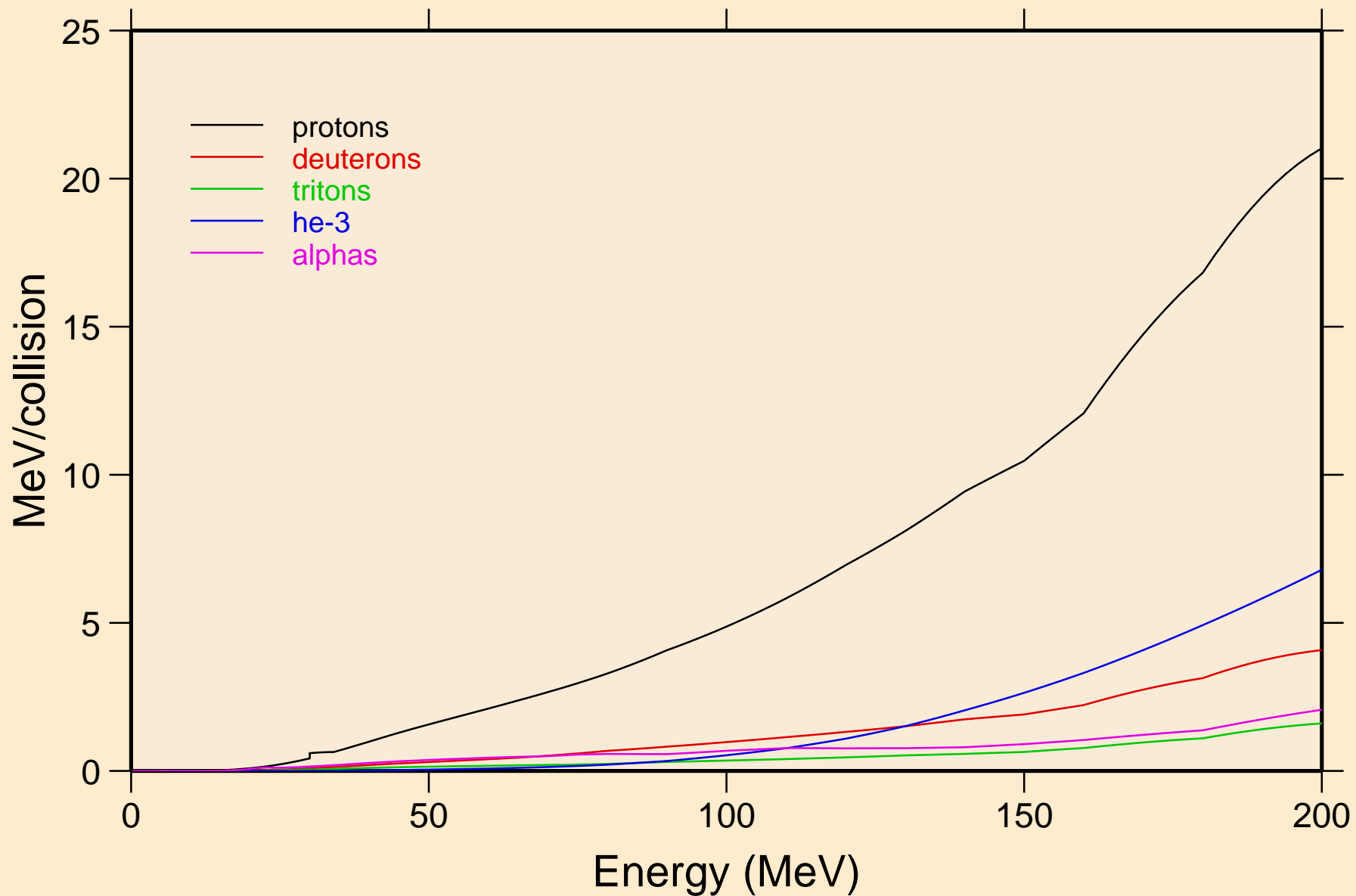




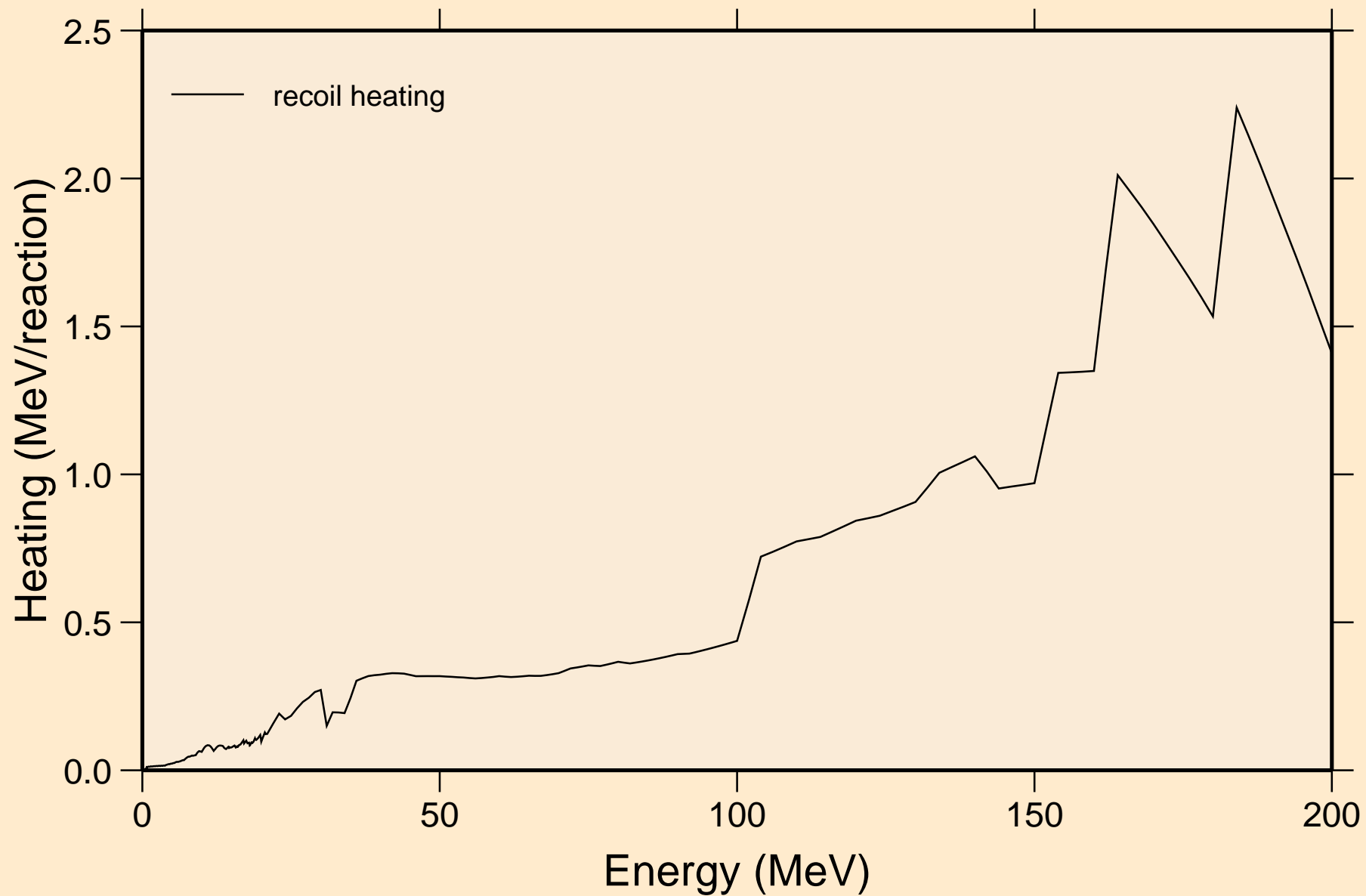
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14 MeV photon spectrum



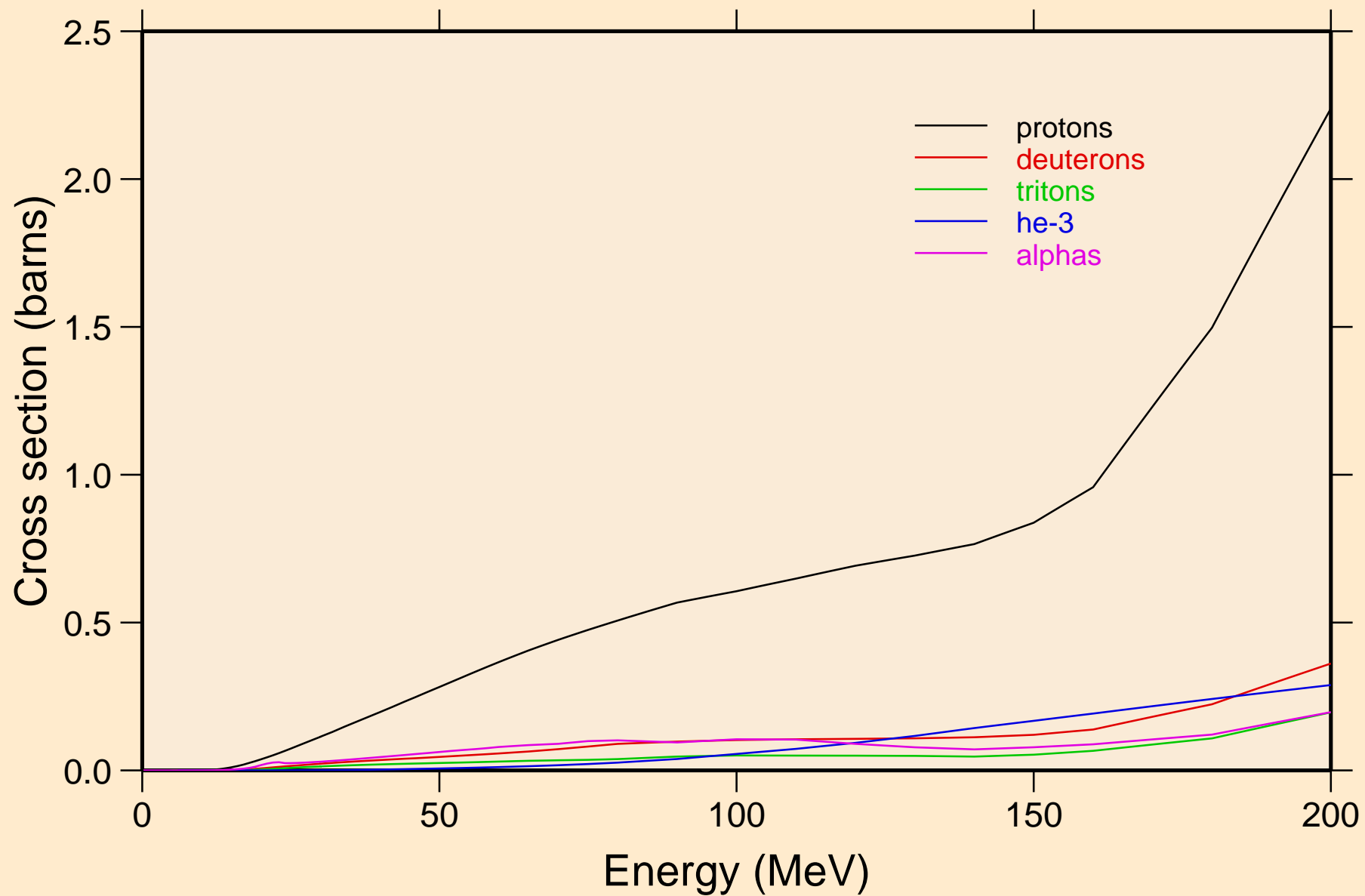
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Particle heating contributions



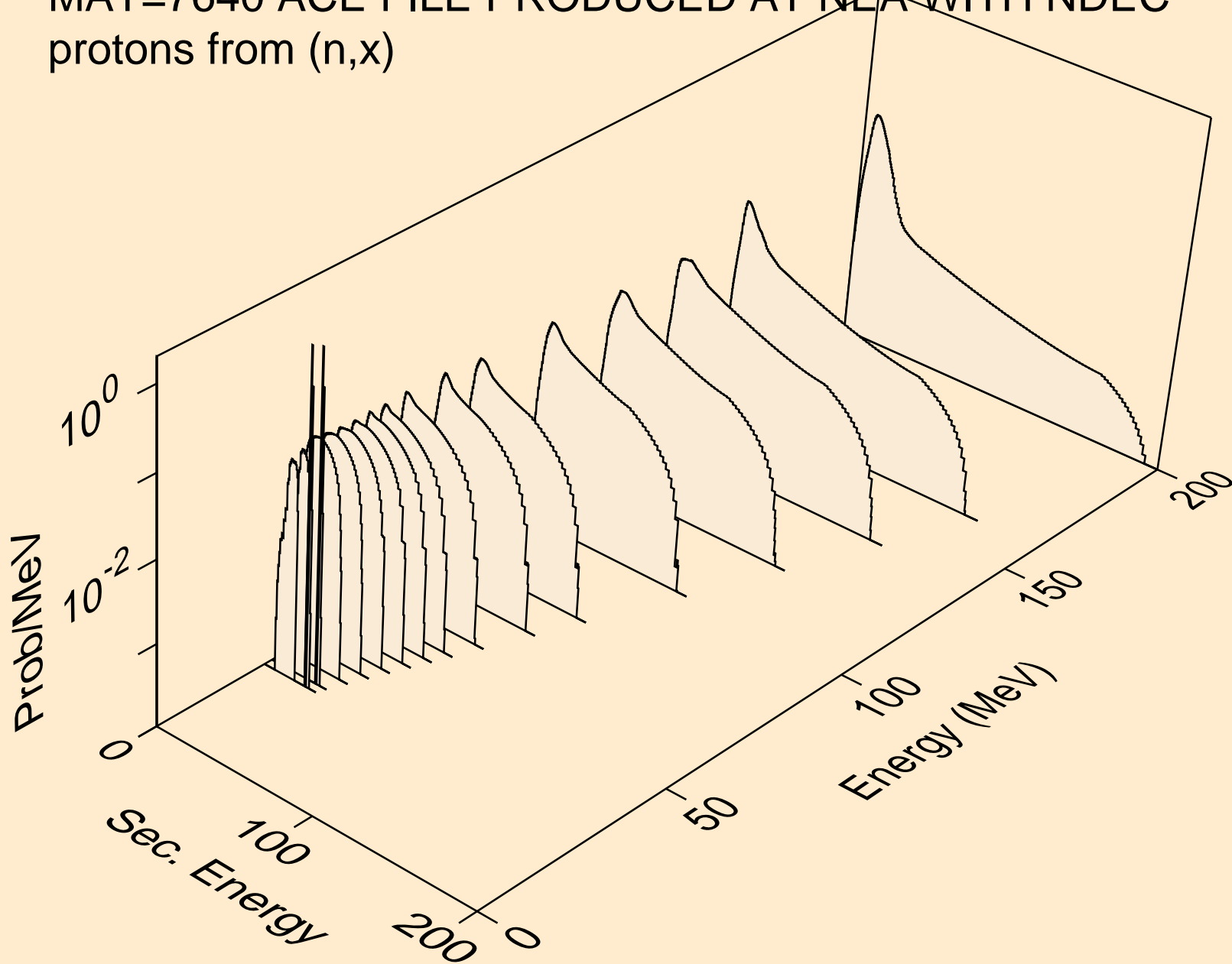
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Recoil Heating



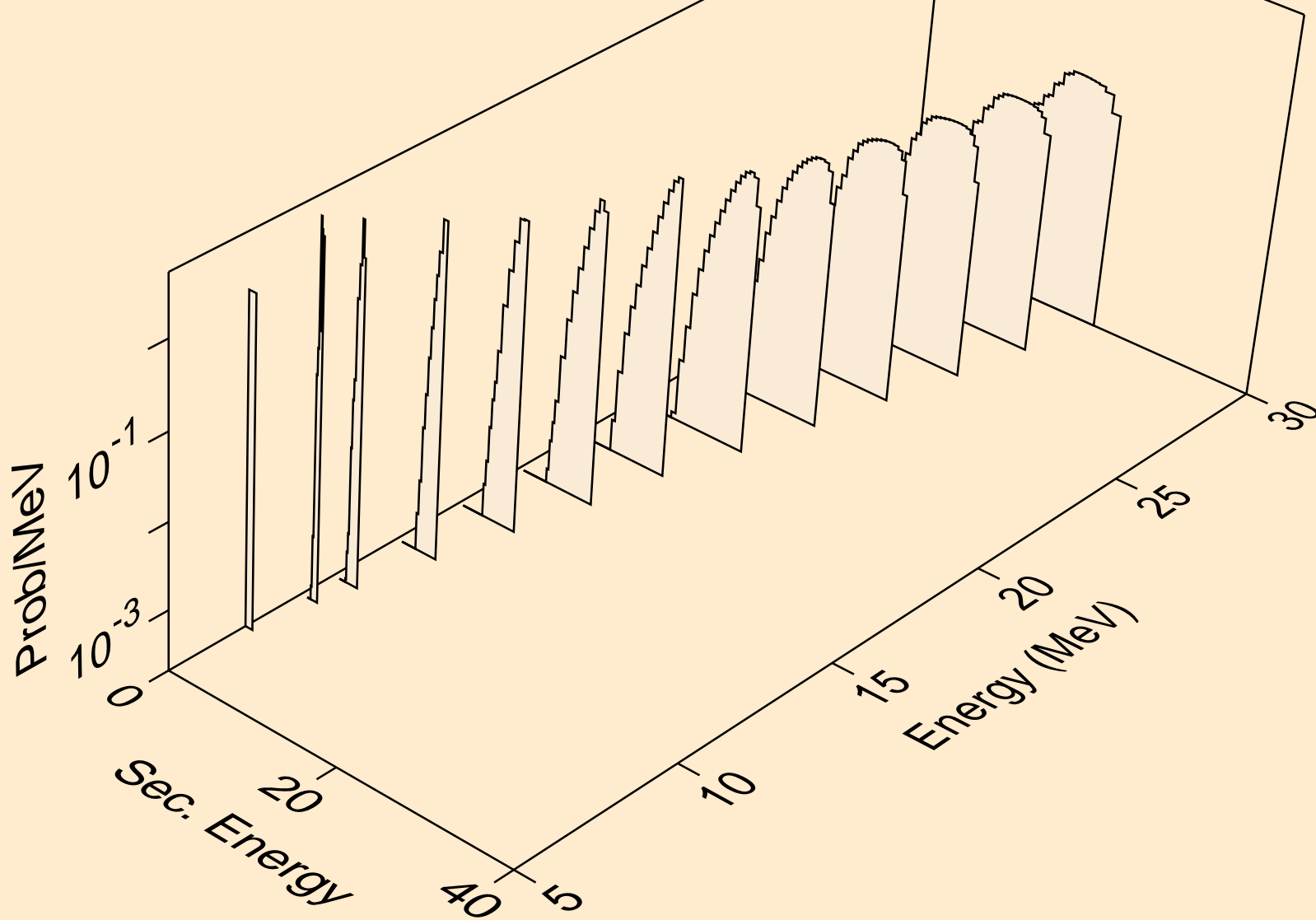
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Particle production cross sections



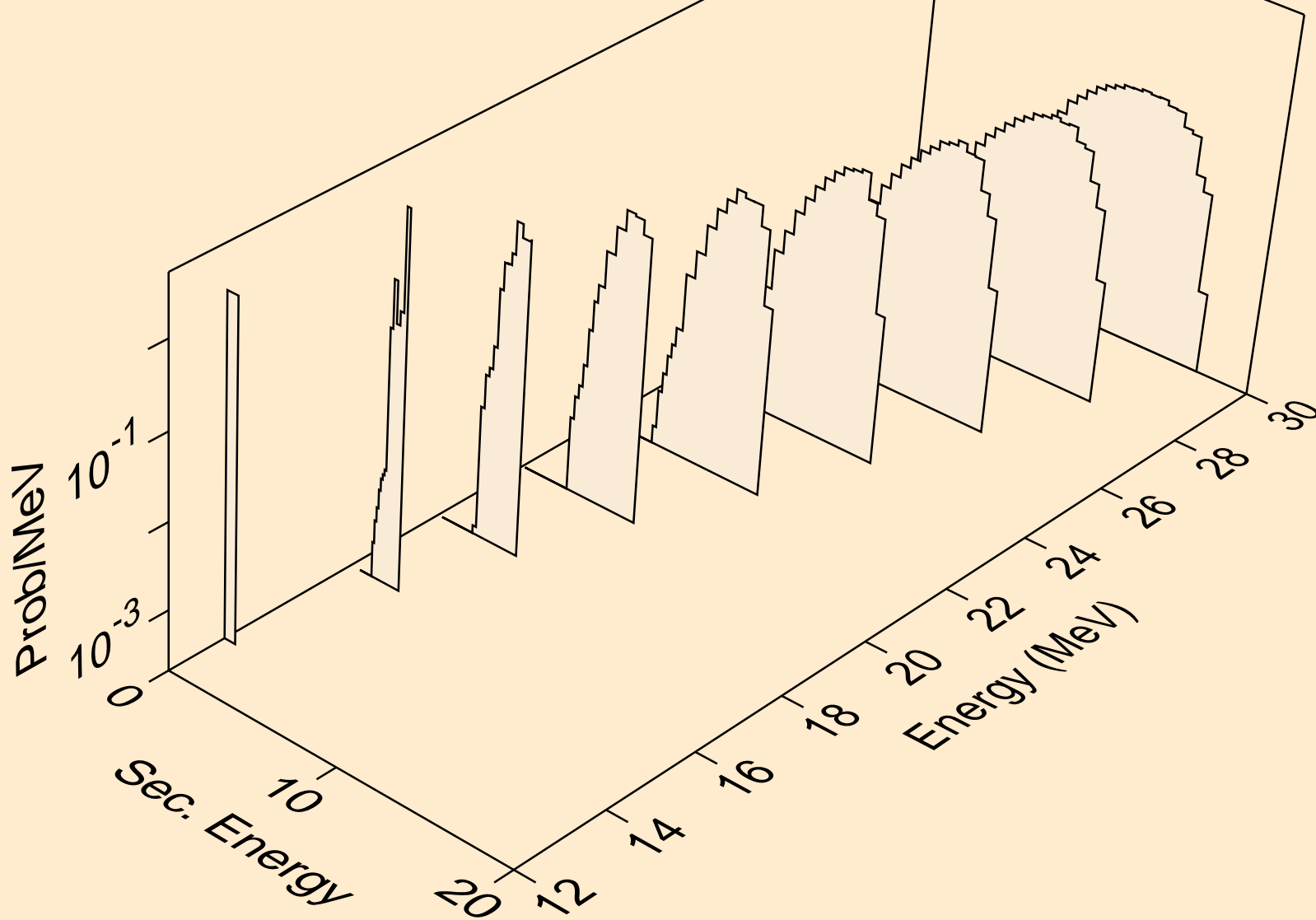
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protons from (n,x)



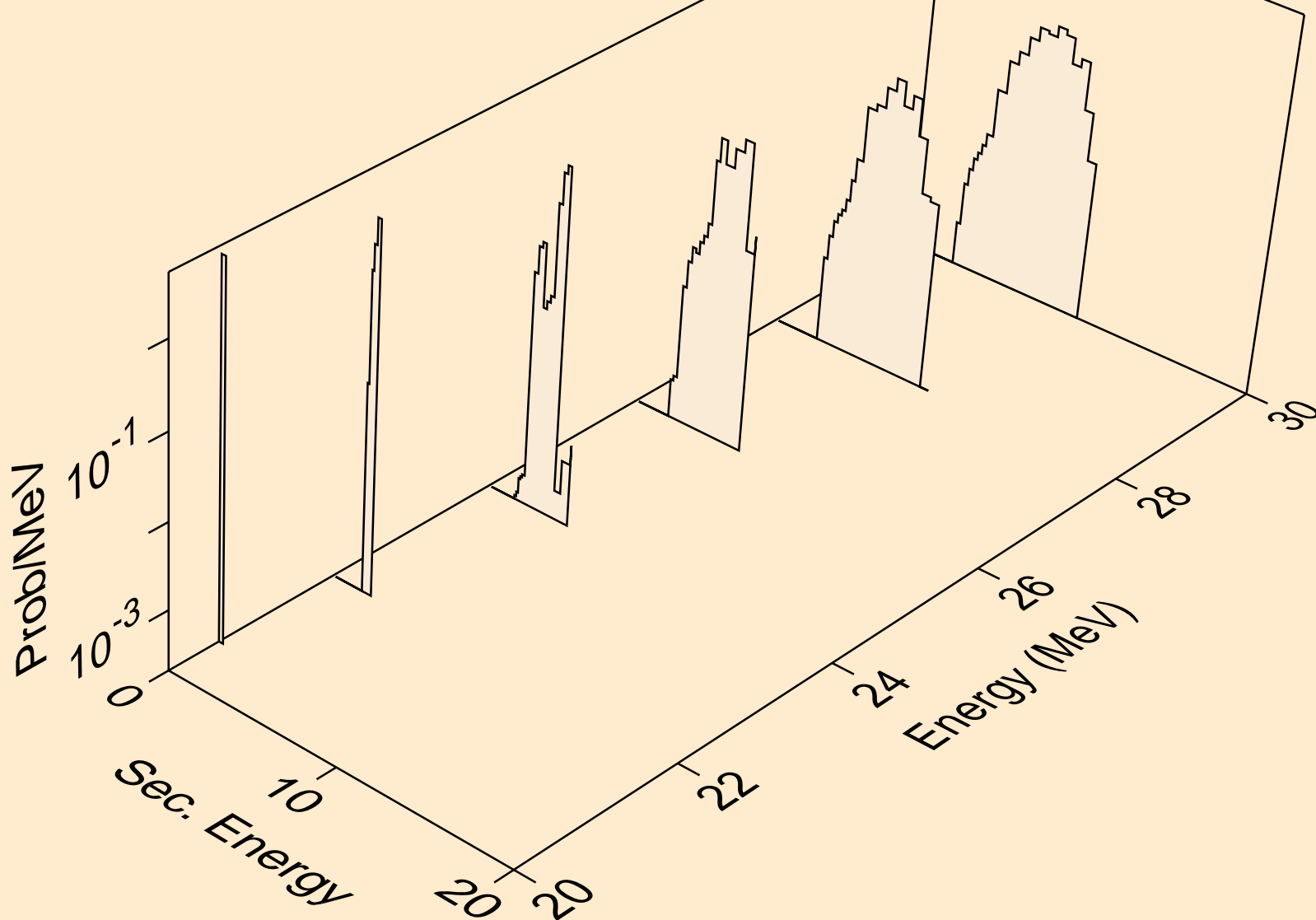
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protons from (n,n\*)p



MAT=7640 ACE FILE PRODUCED AT NEA WITH NDEC  
protons from (n,2np)

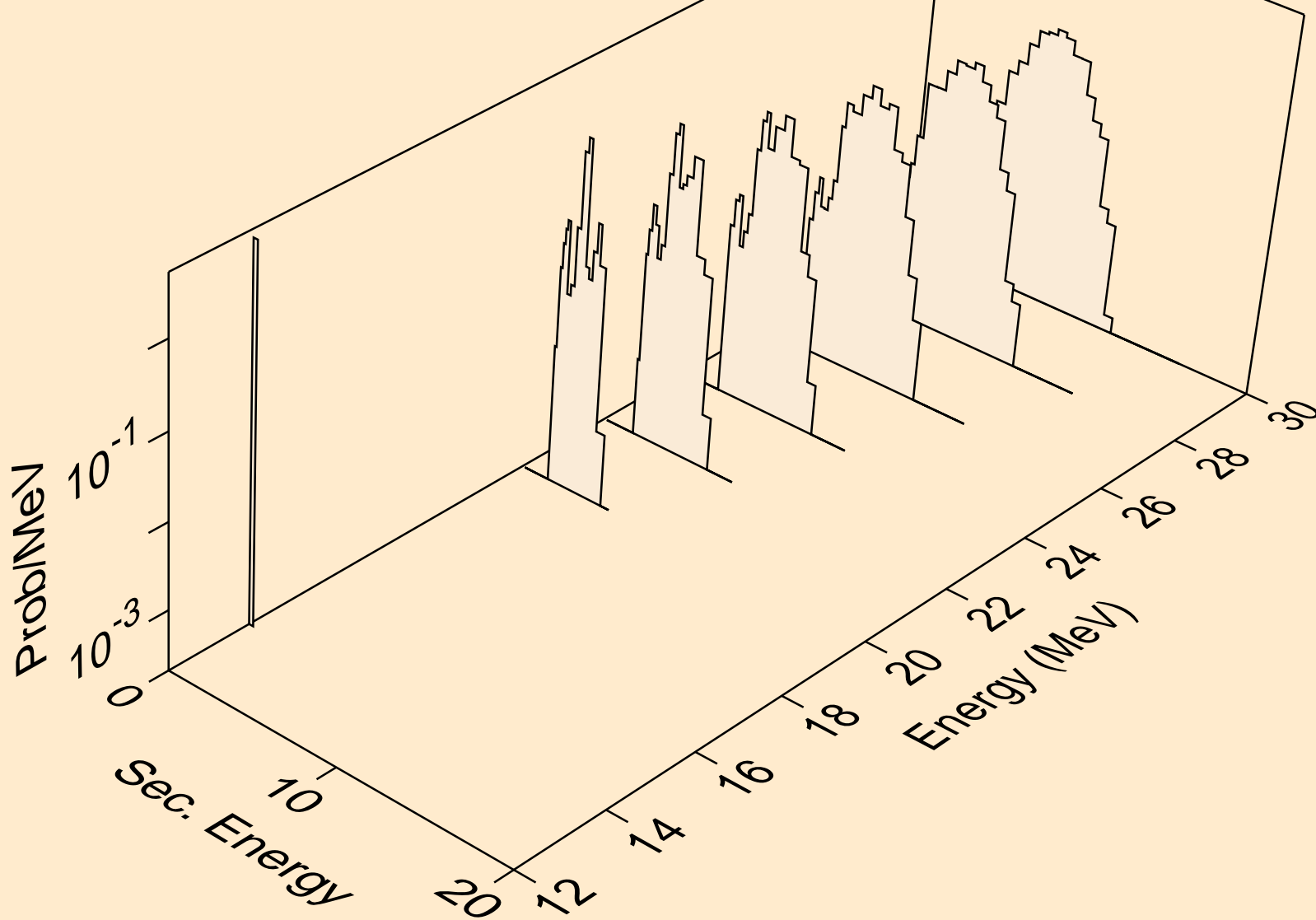


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protons from (n,3np)

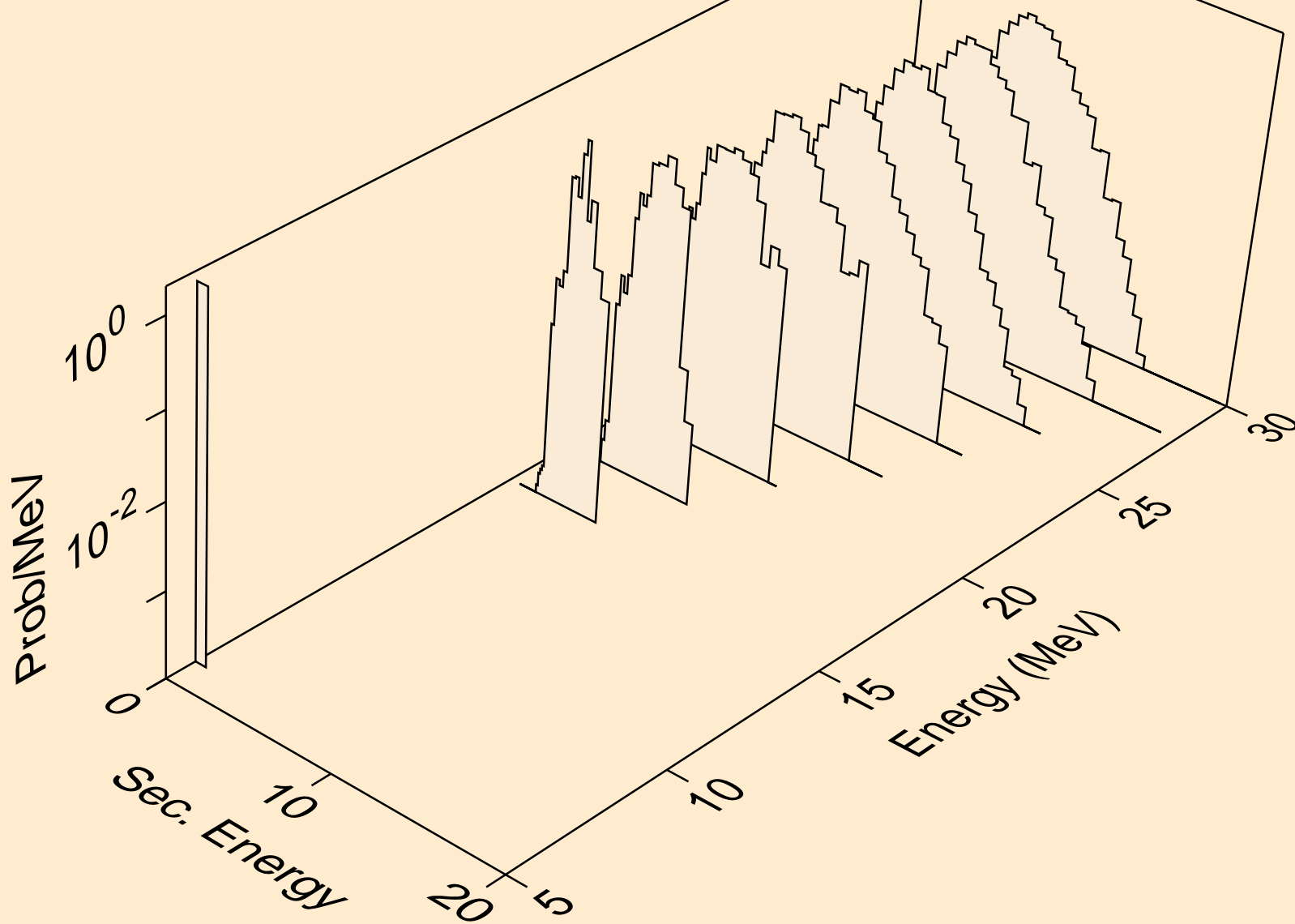




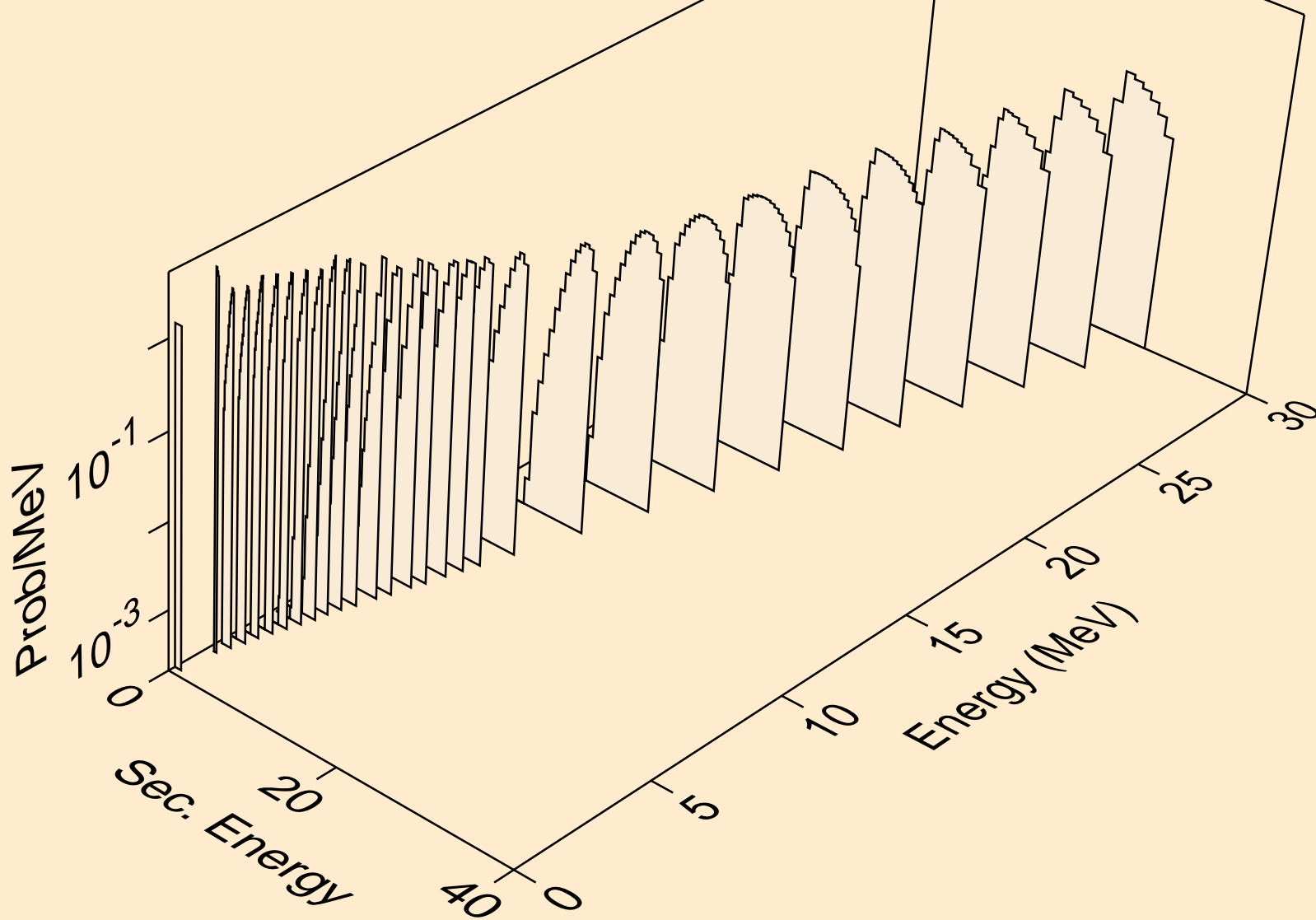
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protons from (n,2np)



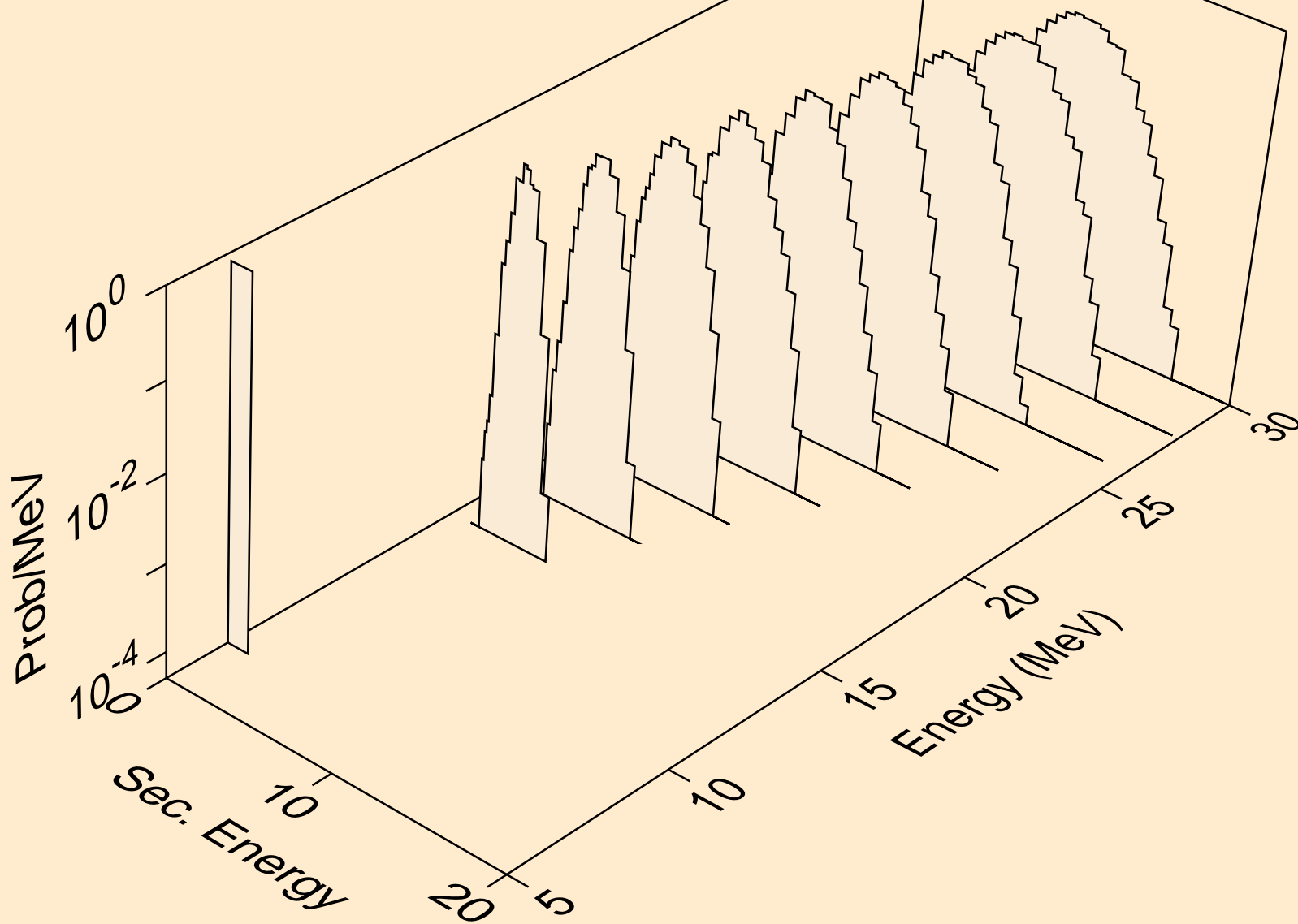
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protons from (n,npa)



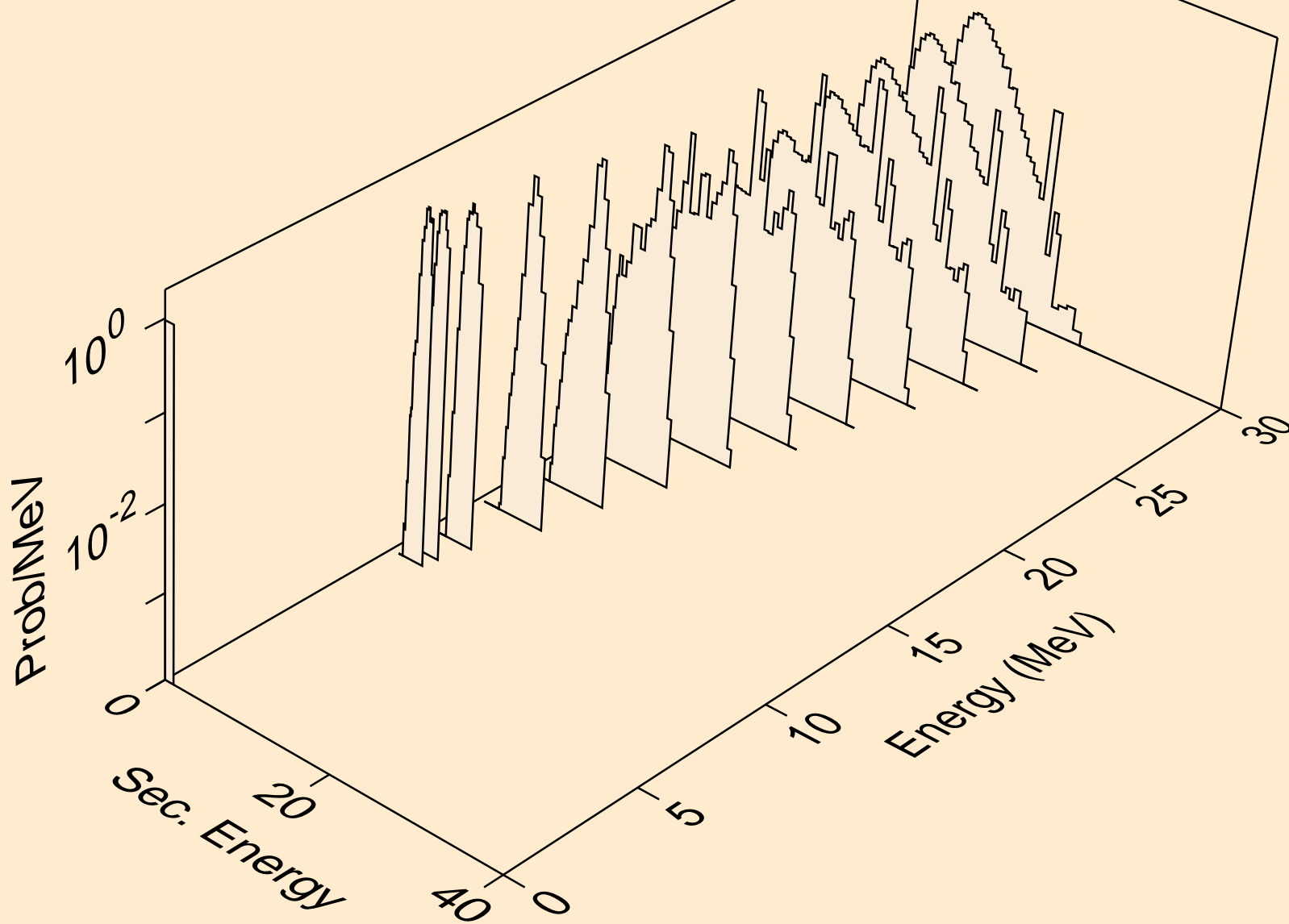
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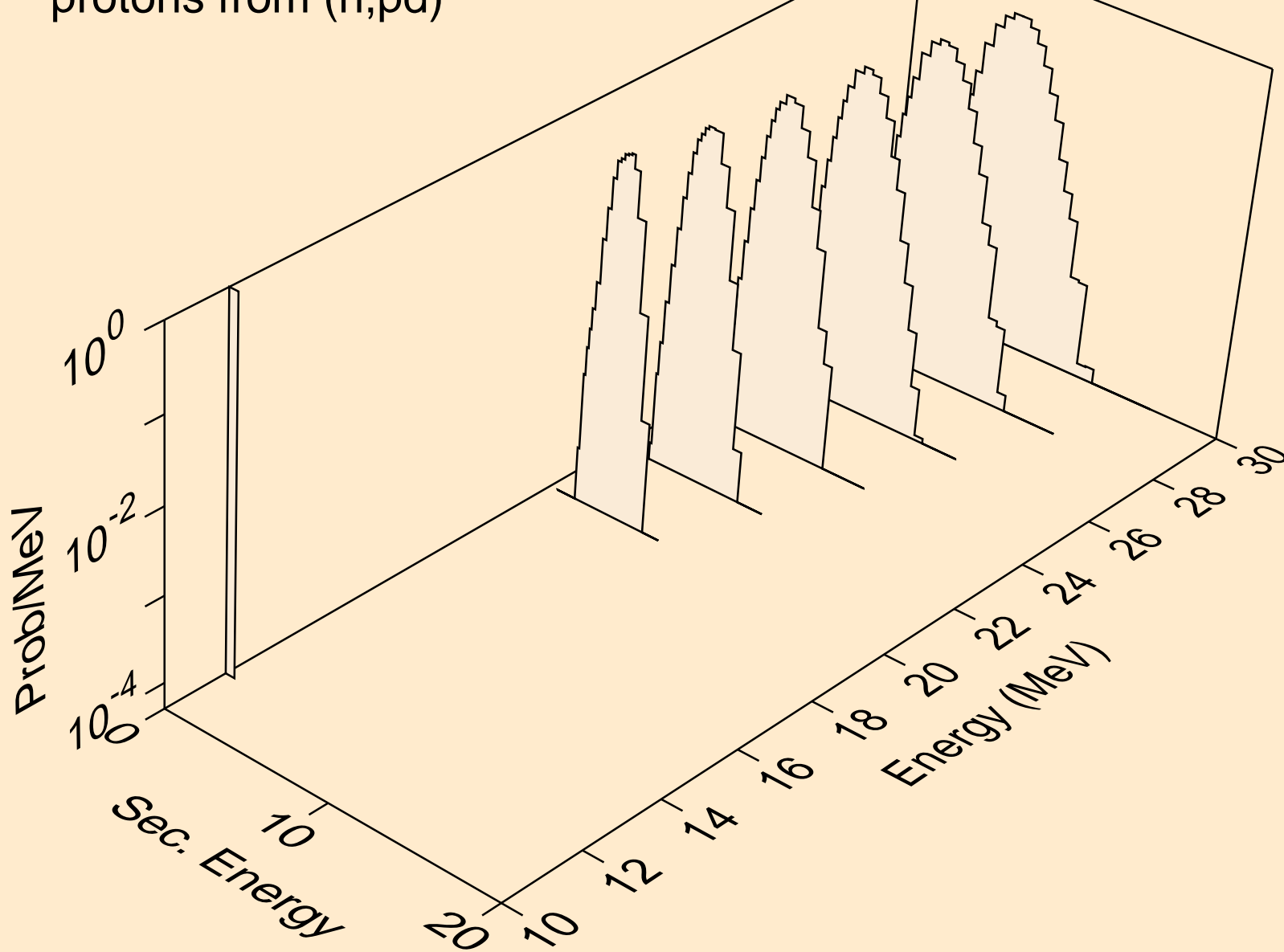
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protons from (n,2p)



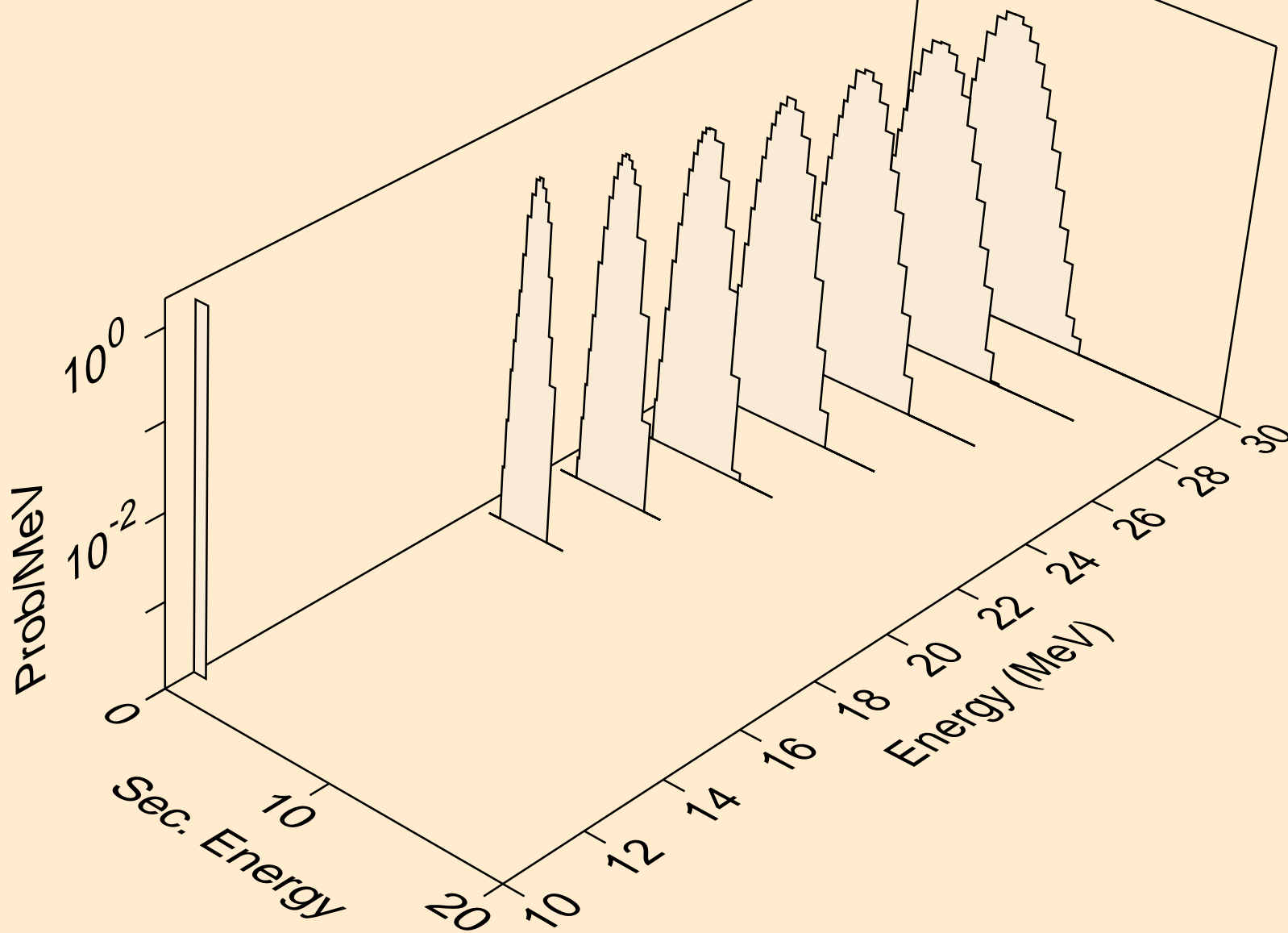
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protons from (n,pa)



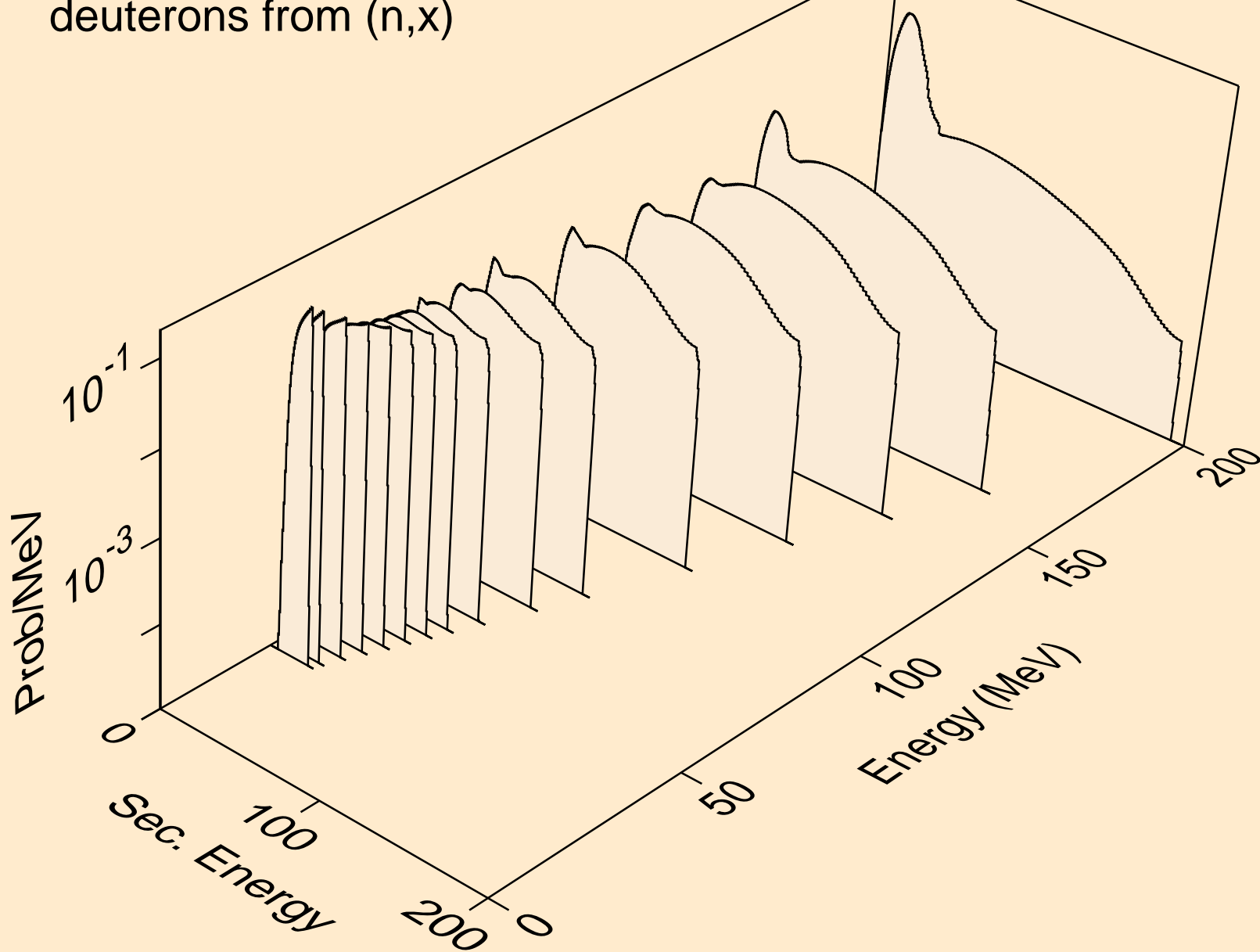
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protons from (n,pd)



MAT=7640 ACE FILE PRODUCED AT NEA WITH NDEC  
protons from (n,pt)

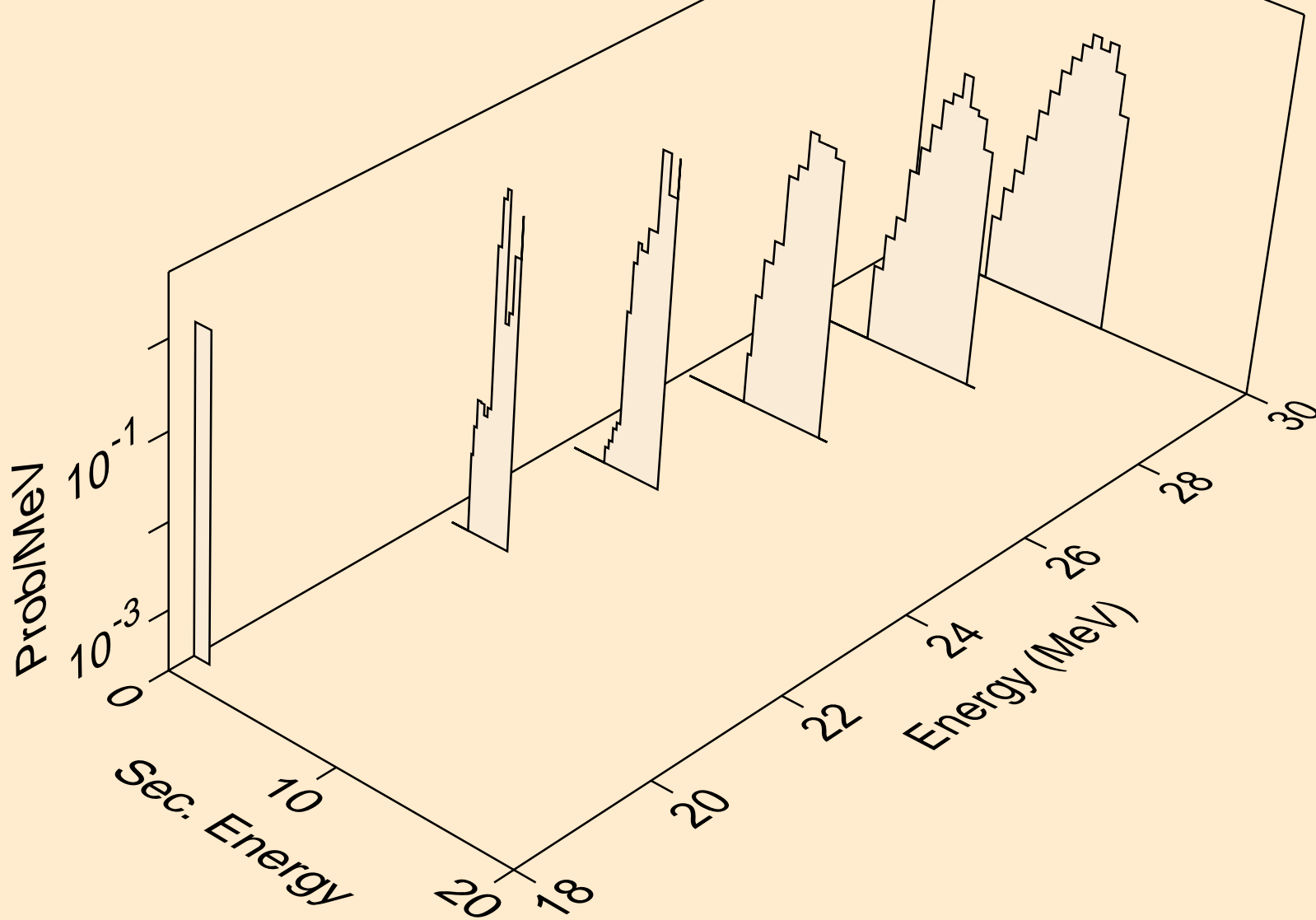


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deuterons from (n,x)

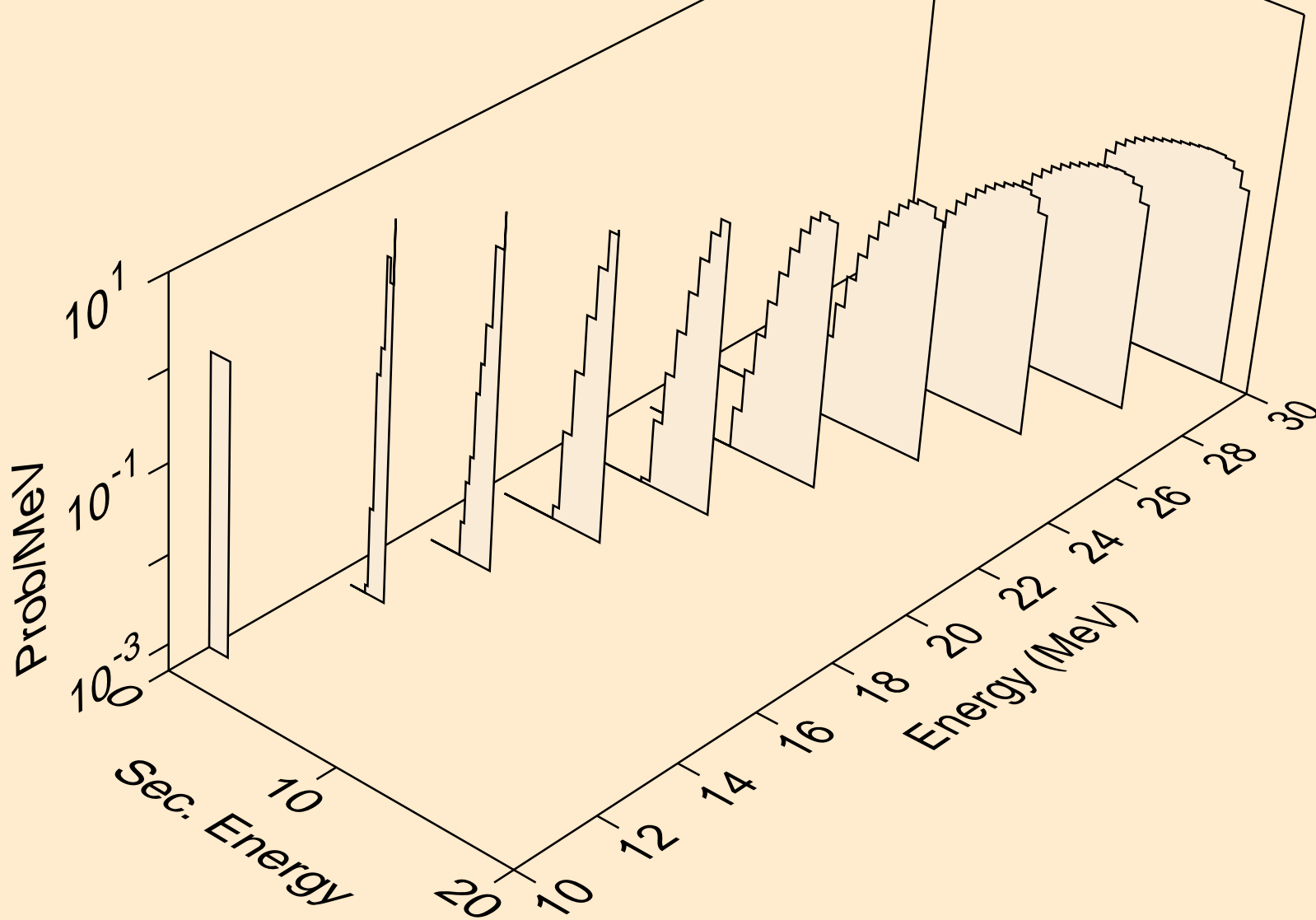




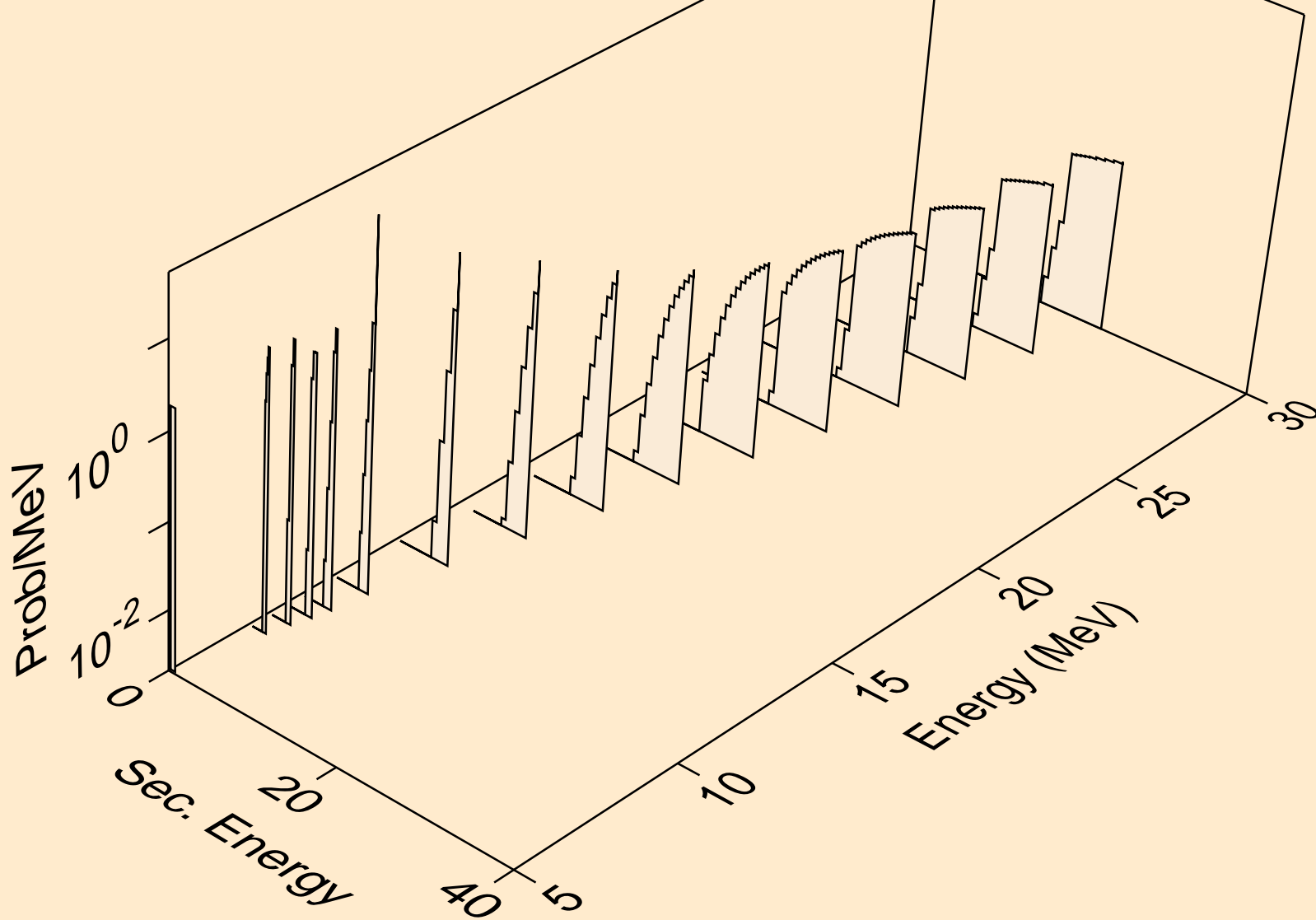
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deuterons from (n,2nd)



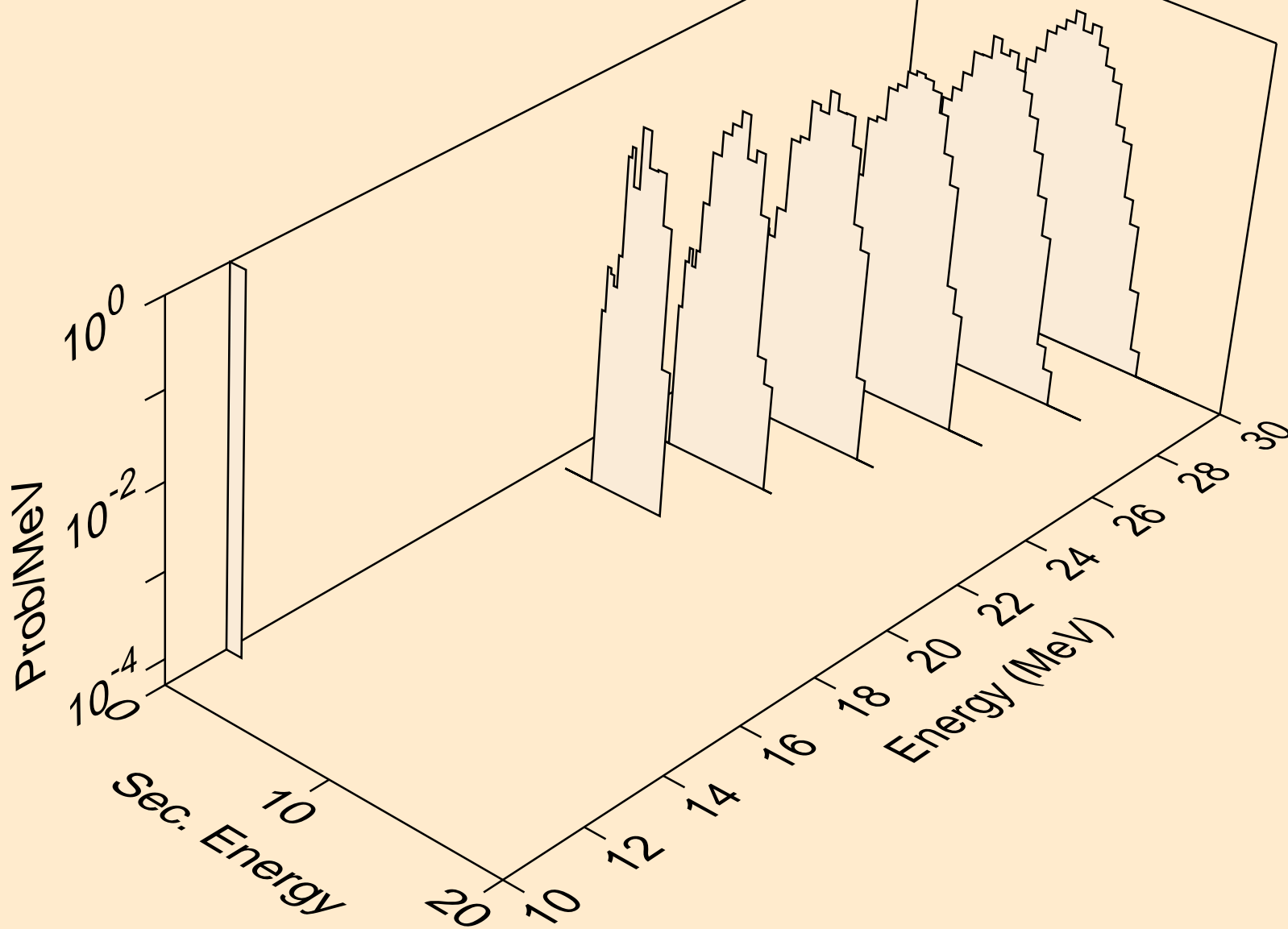
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deuterons from (n,n\*)d



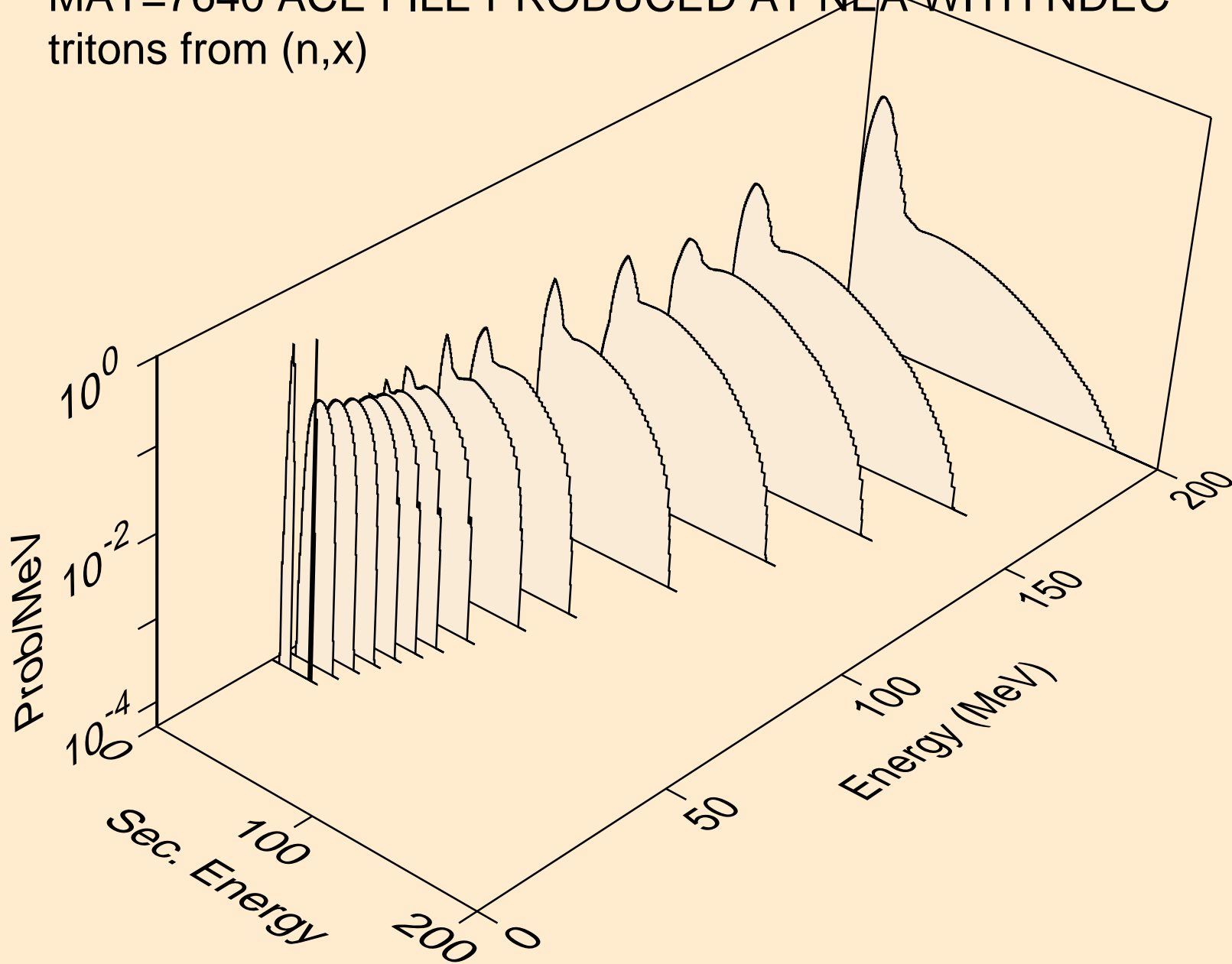
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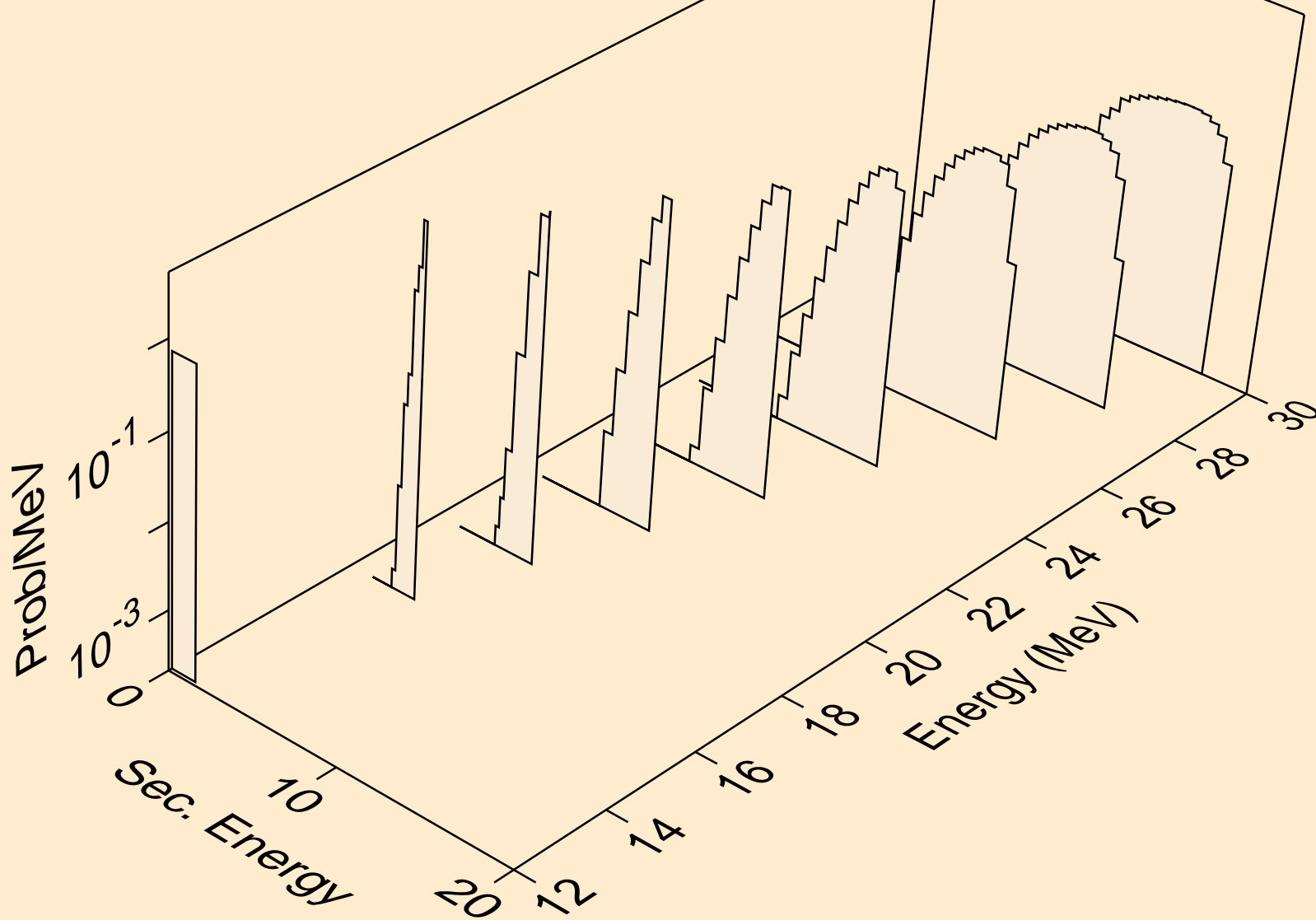
MAT=7640 ACE FILE PRODUCED AT NEA WITH NDEC  
deuterons from (n,pd)



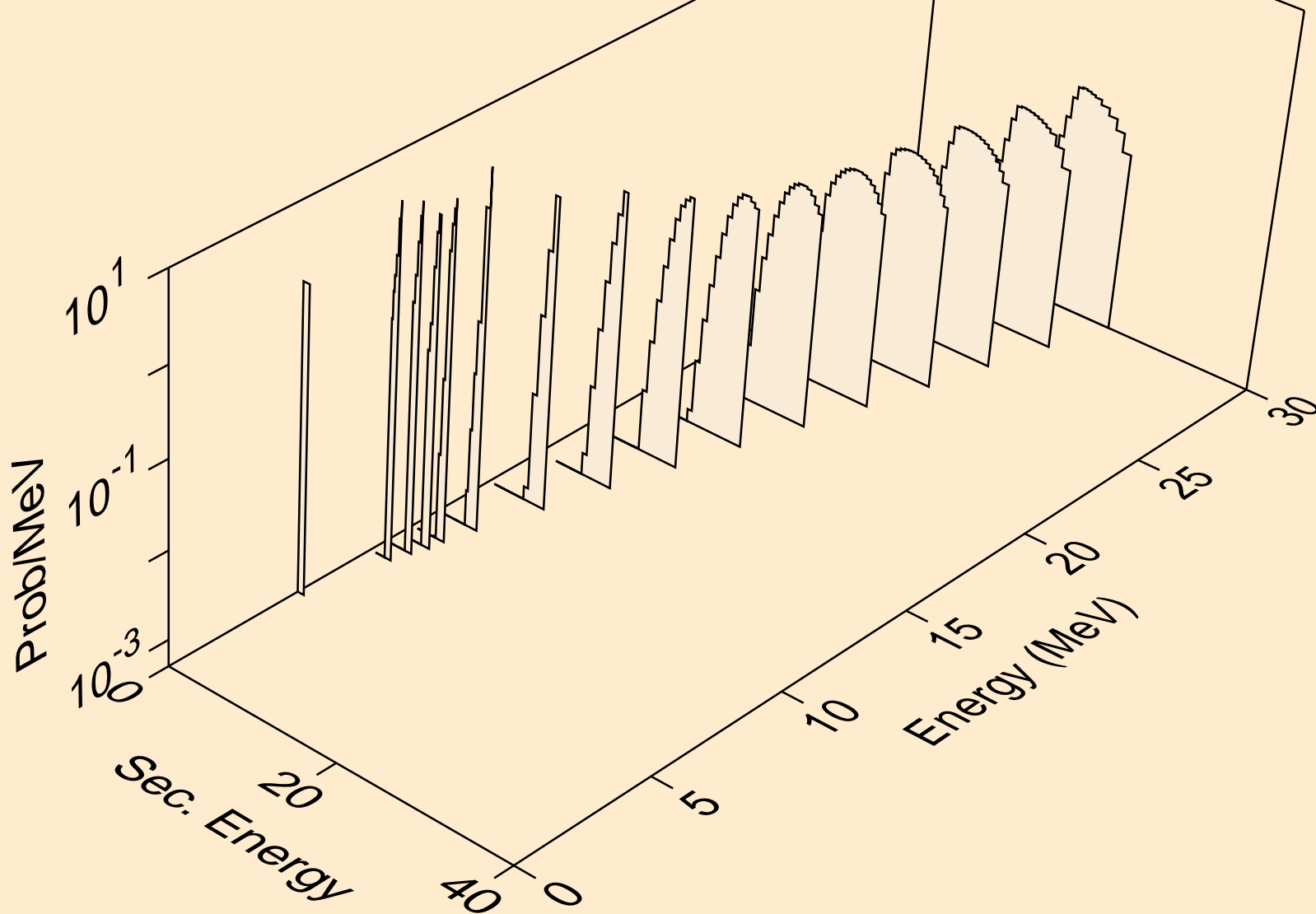
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tritons from (n,x)



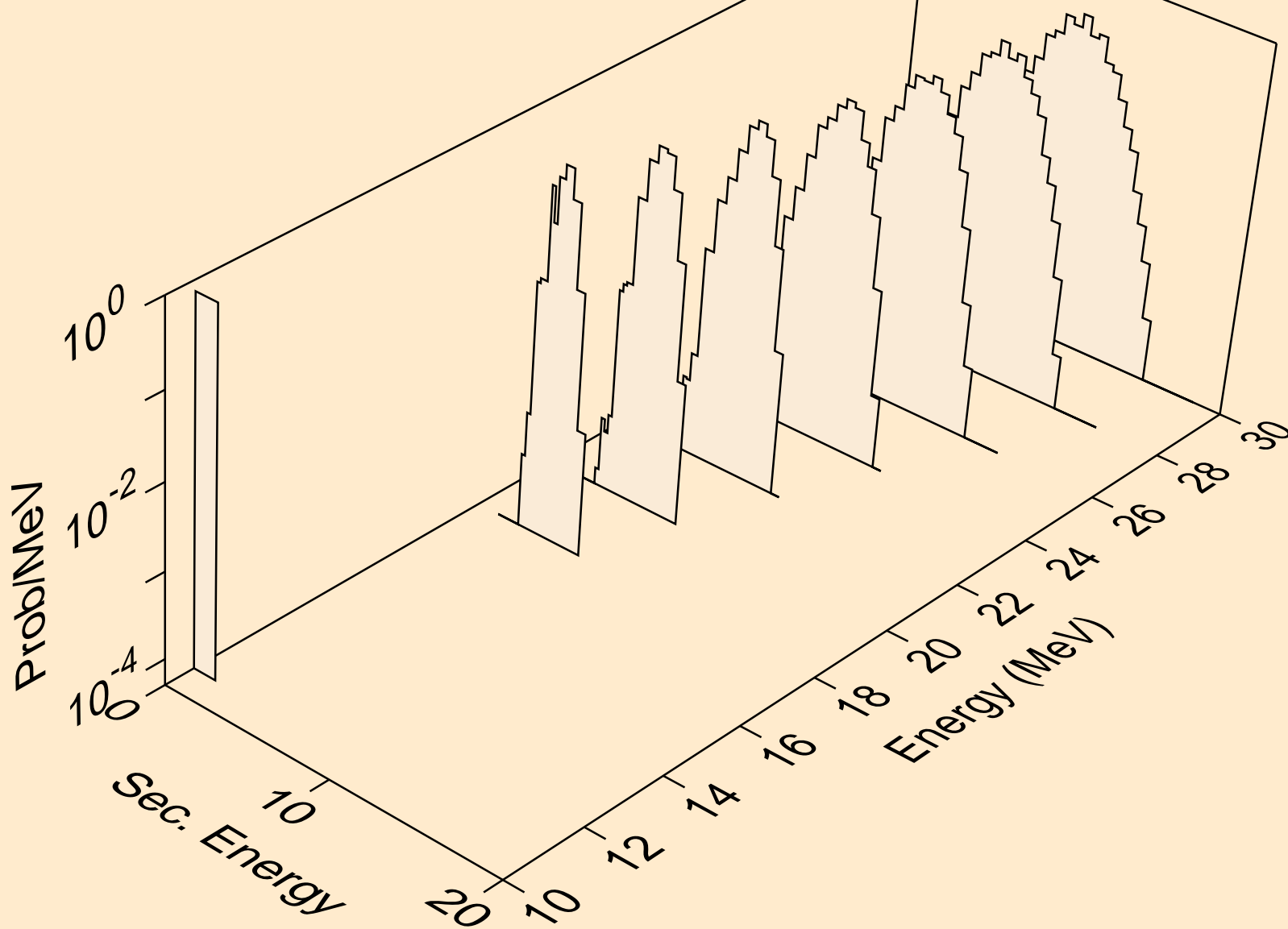
MAT=7640 ACE FILE PRODUCED AT NEA WITH NDEC  
tritons from (n,n\*)t



MAT=7640 ACE FILE PRODUCED AT NEA WITH NDEC  
tritons from (n,t)

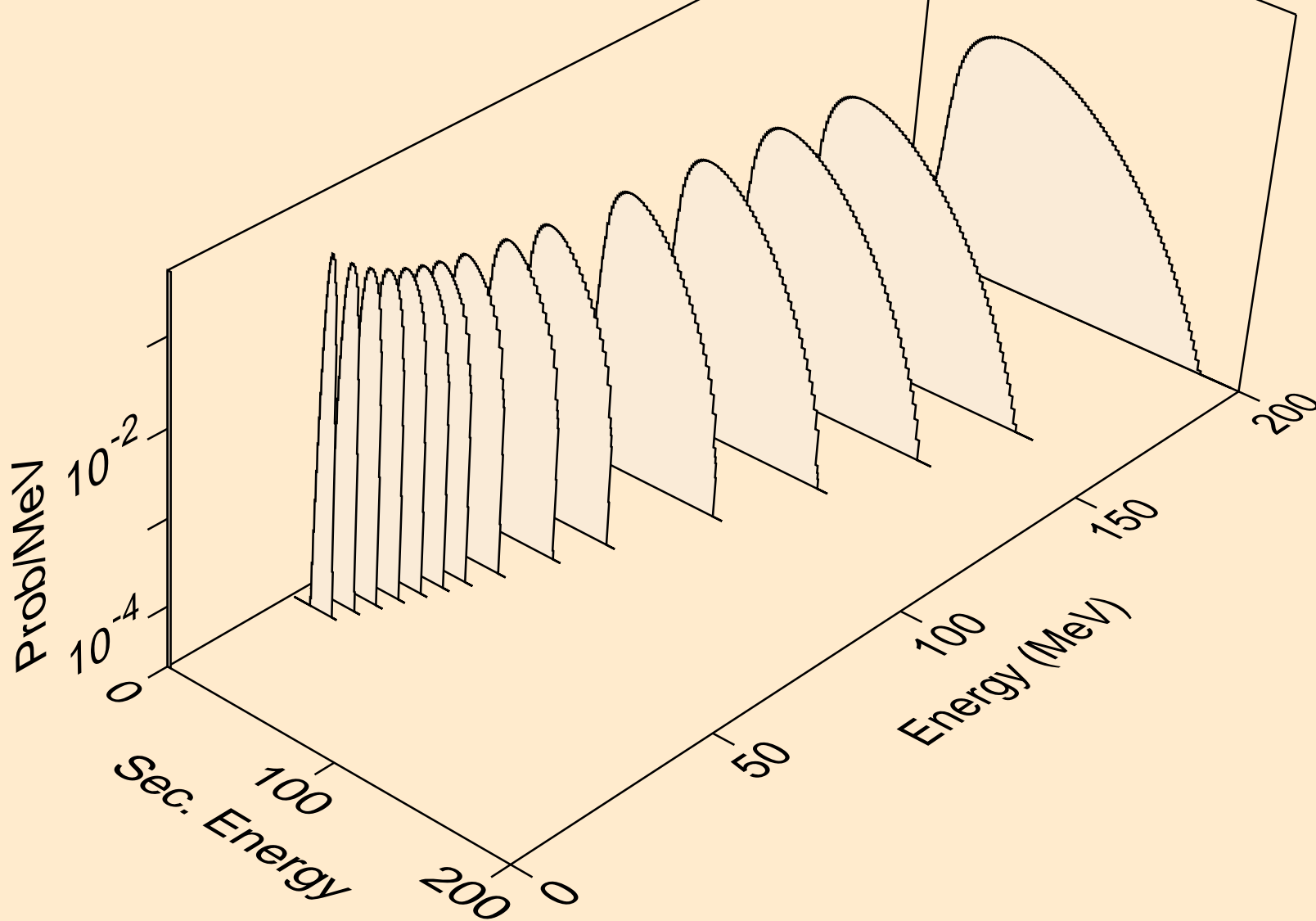


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tritons from (n,pt)

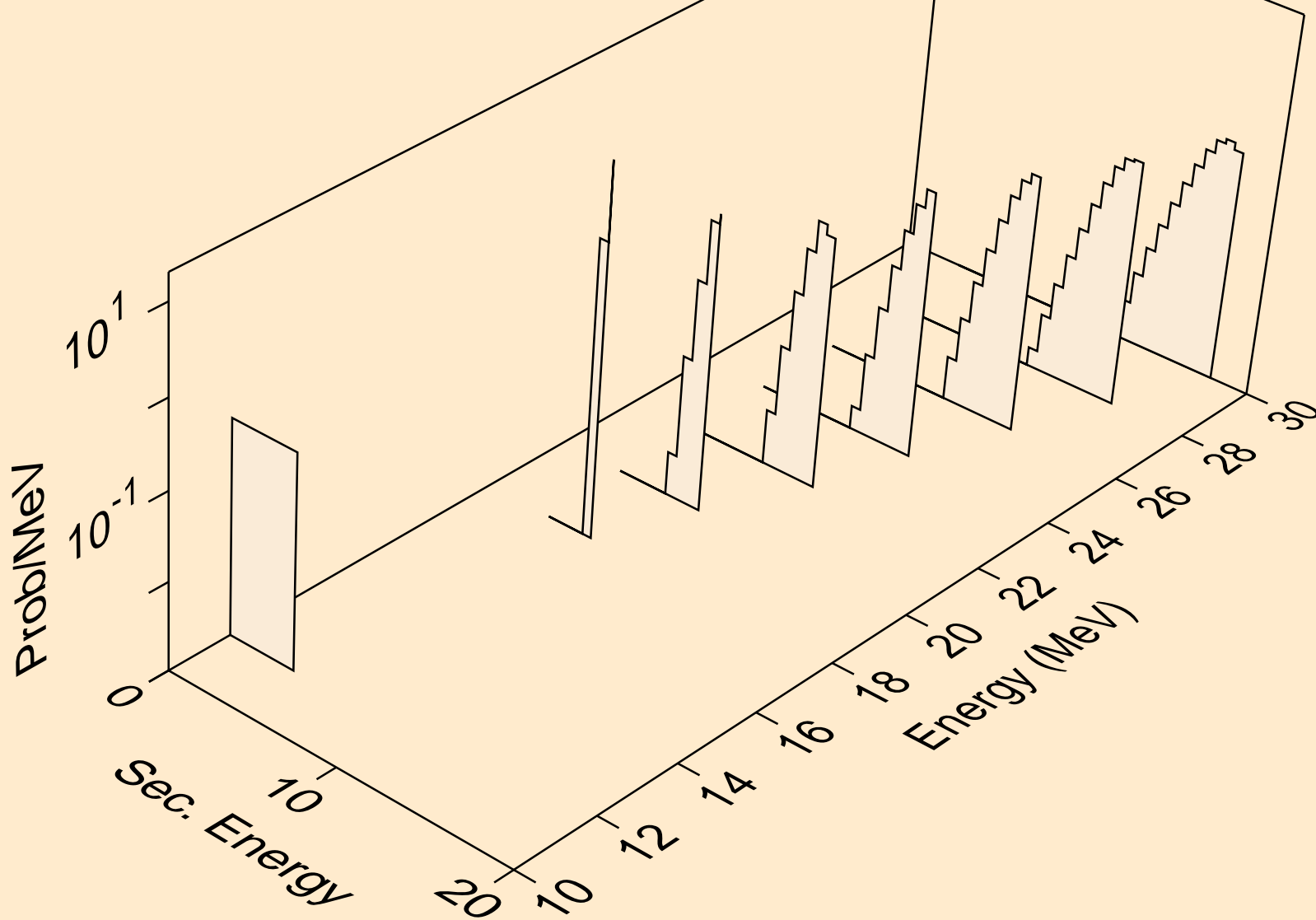




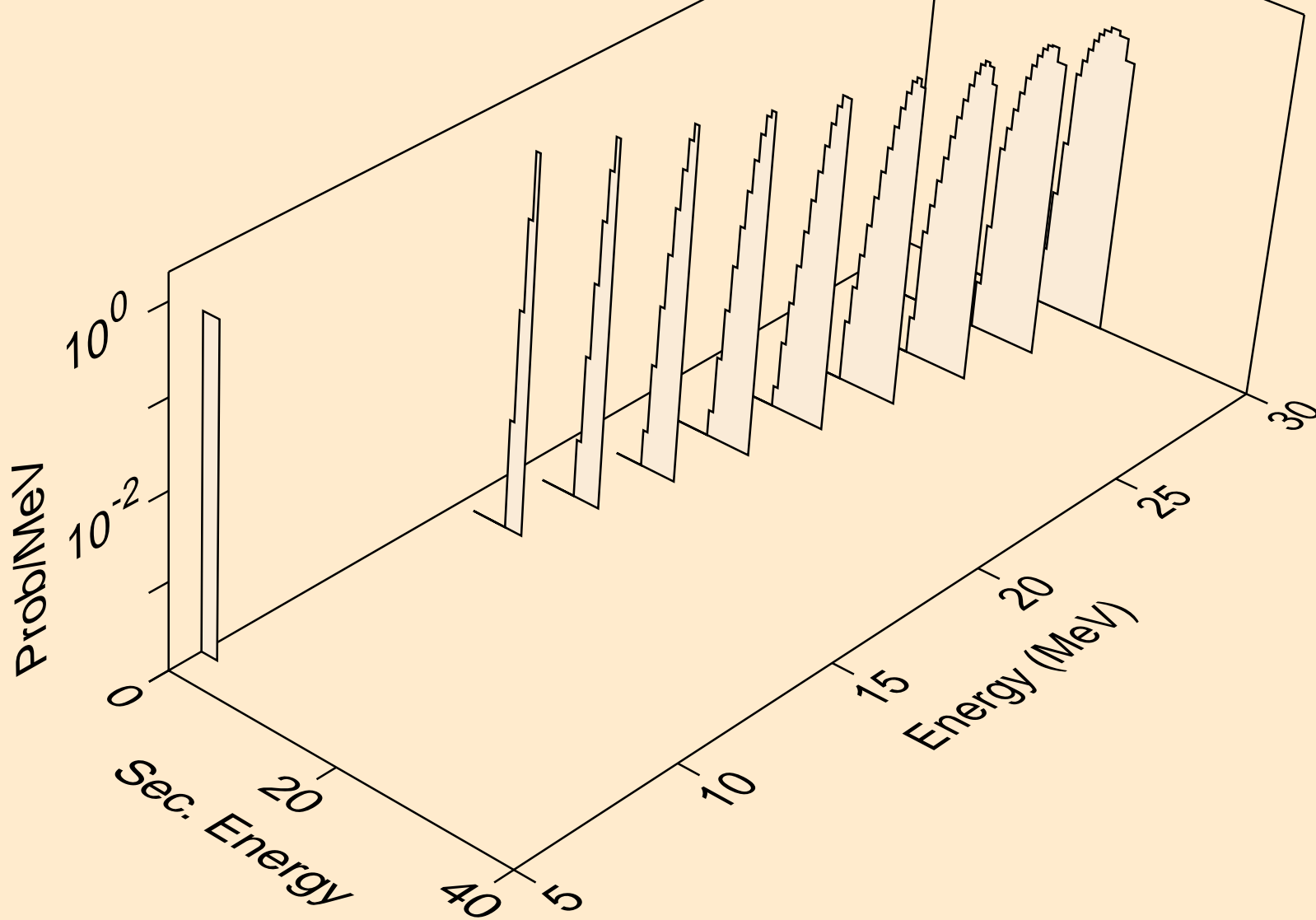
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he3s from (n,x)



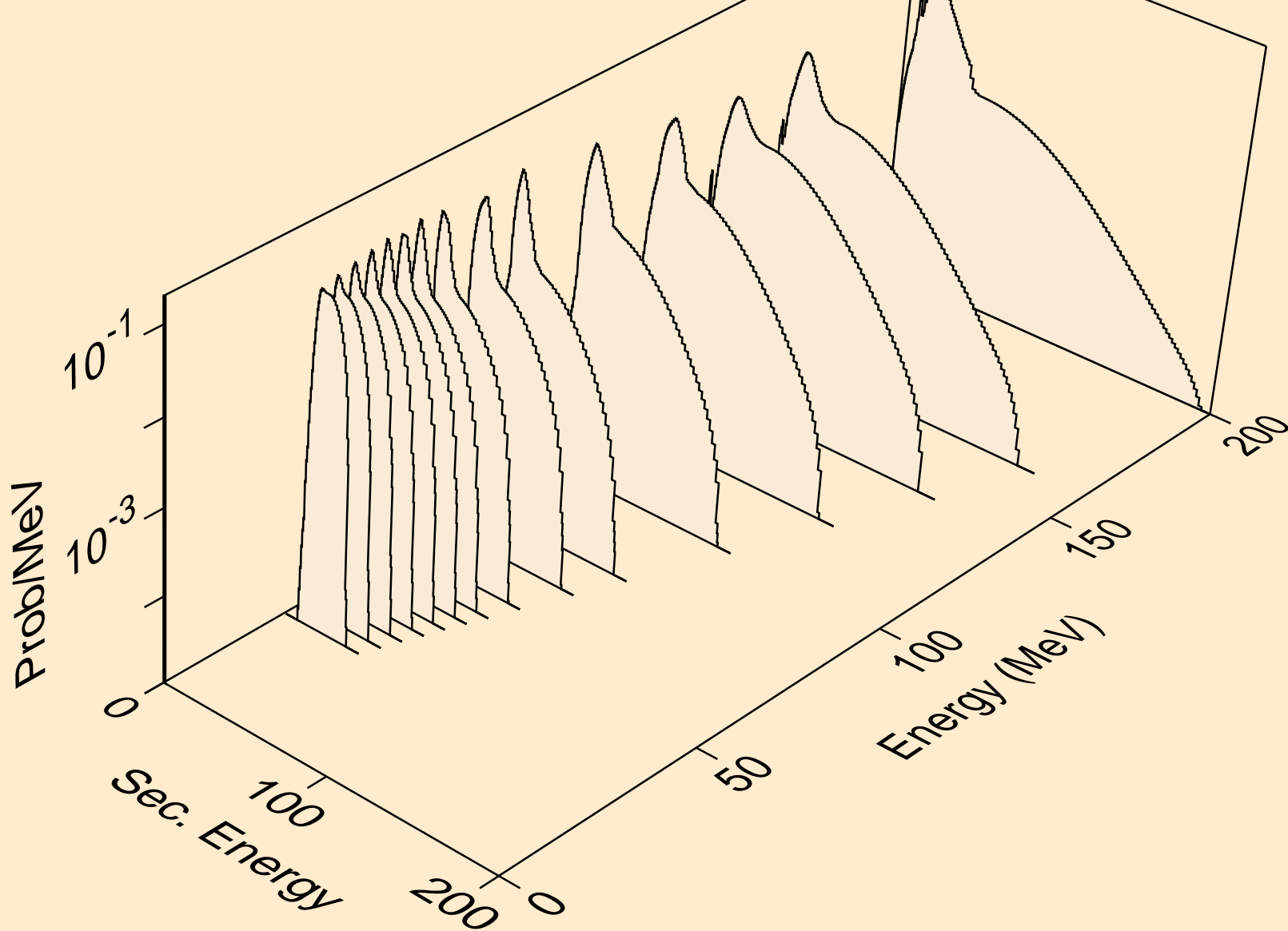
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he3s from (n,n\*)he3



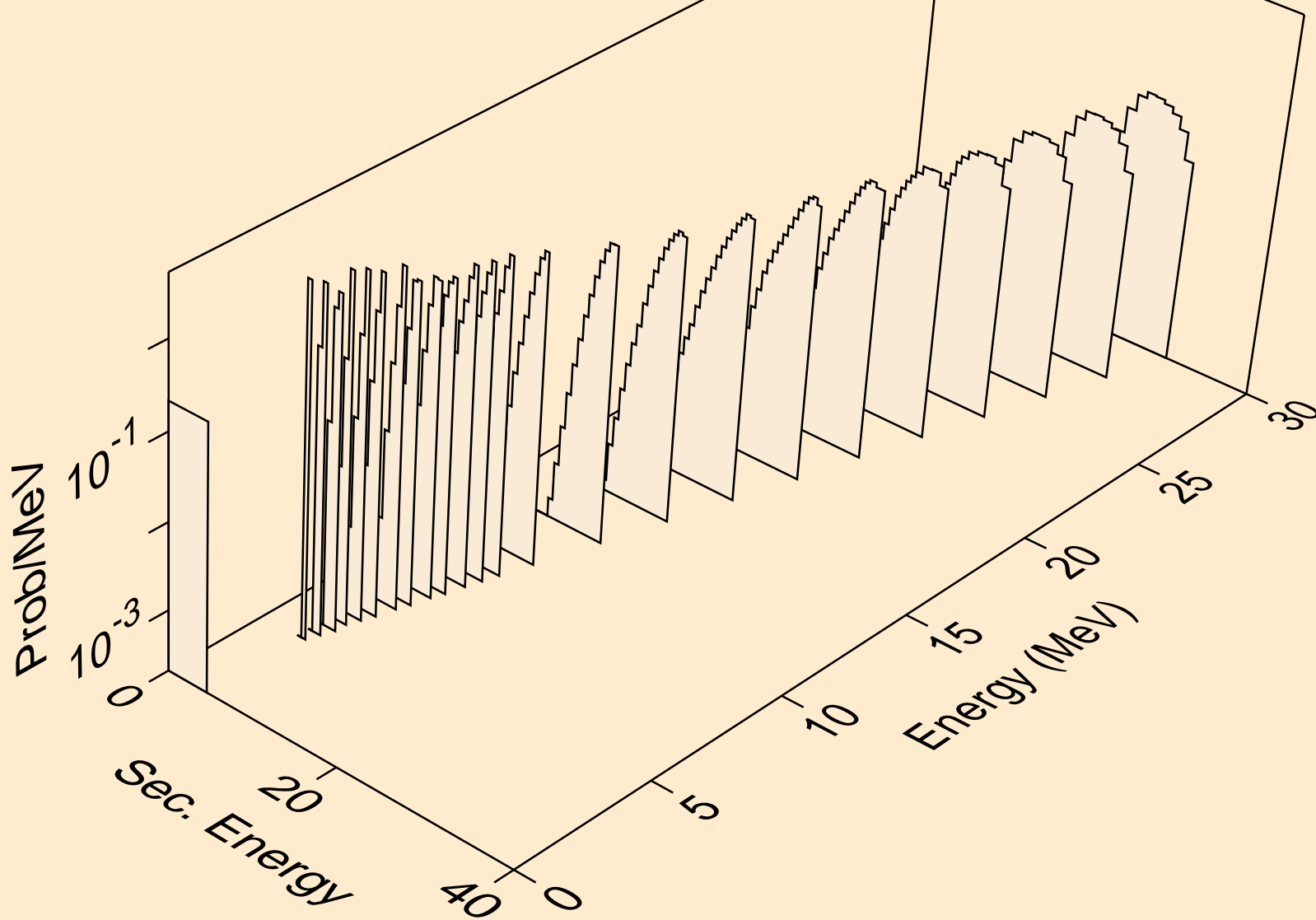
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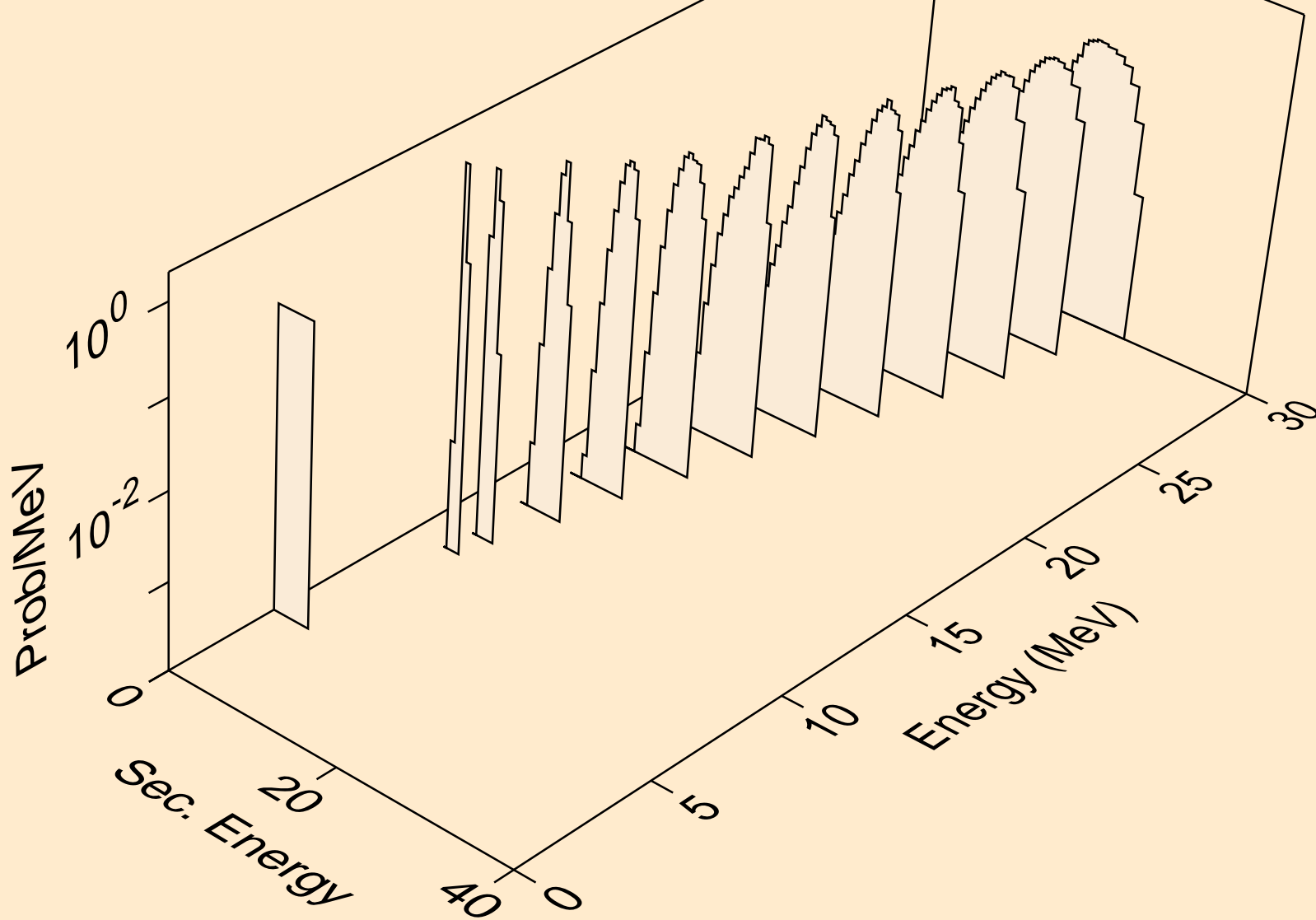
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alphas from (n,x)



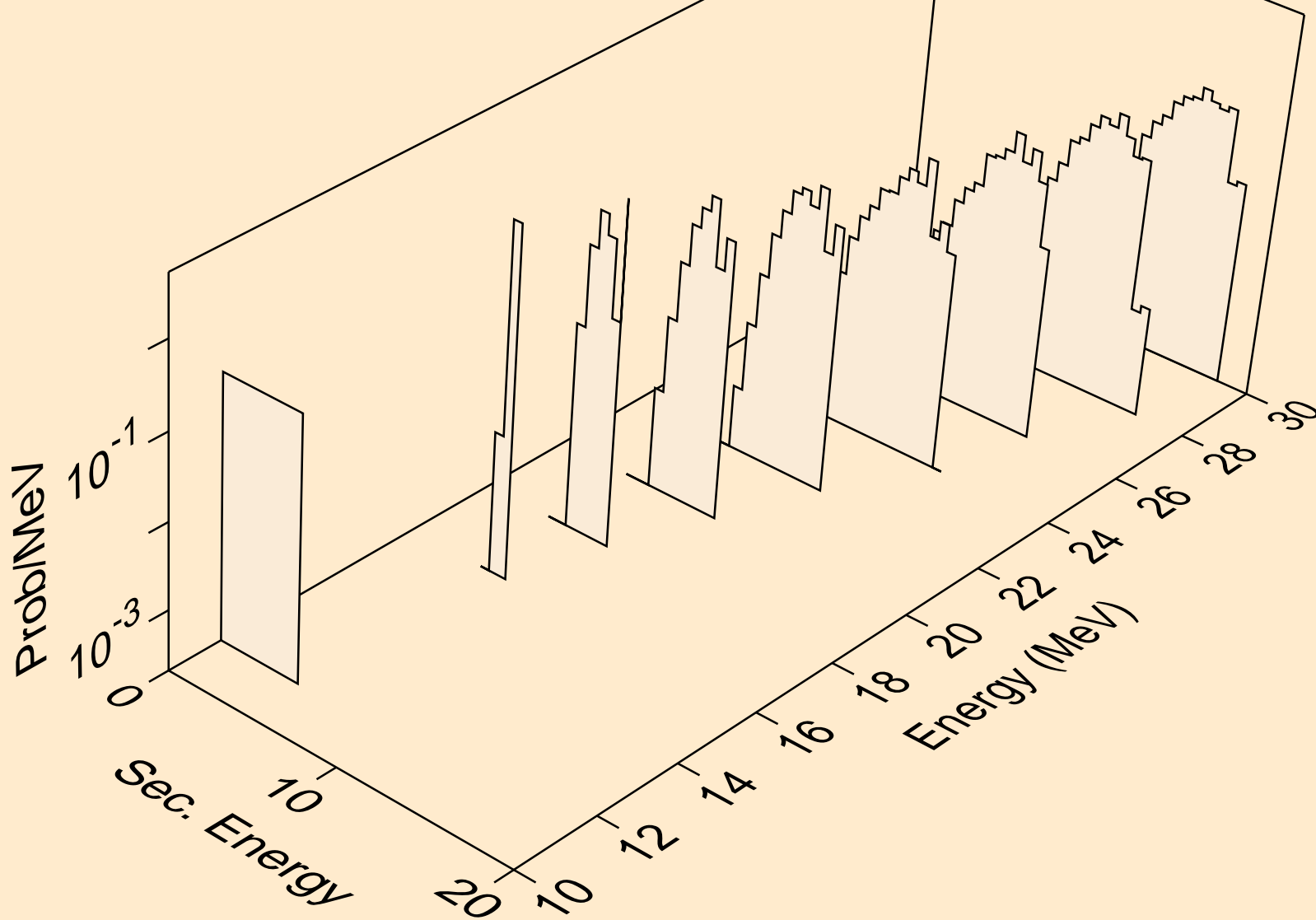
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alphas from (n,n\*)a



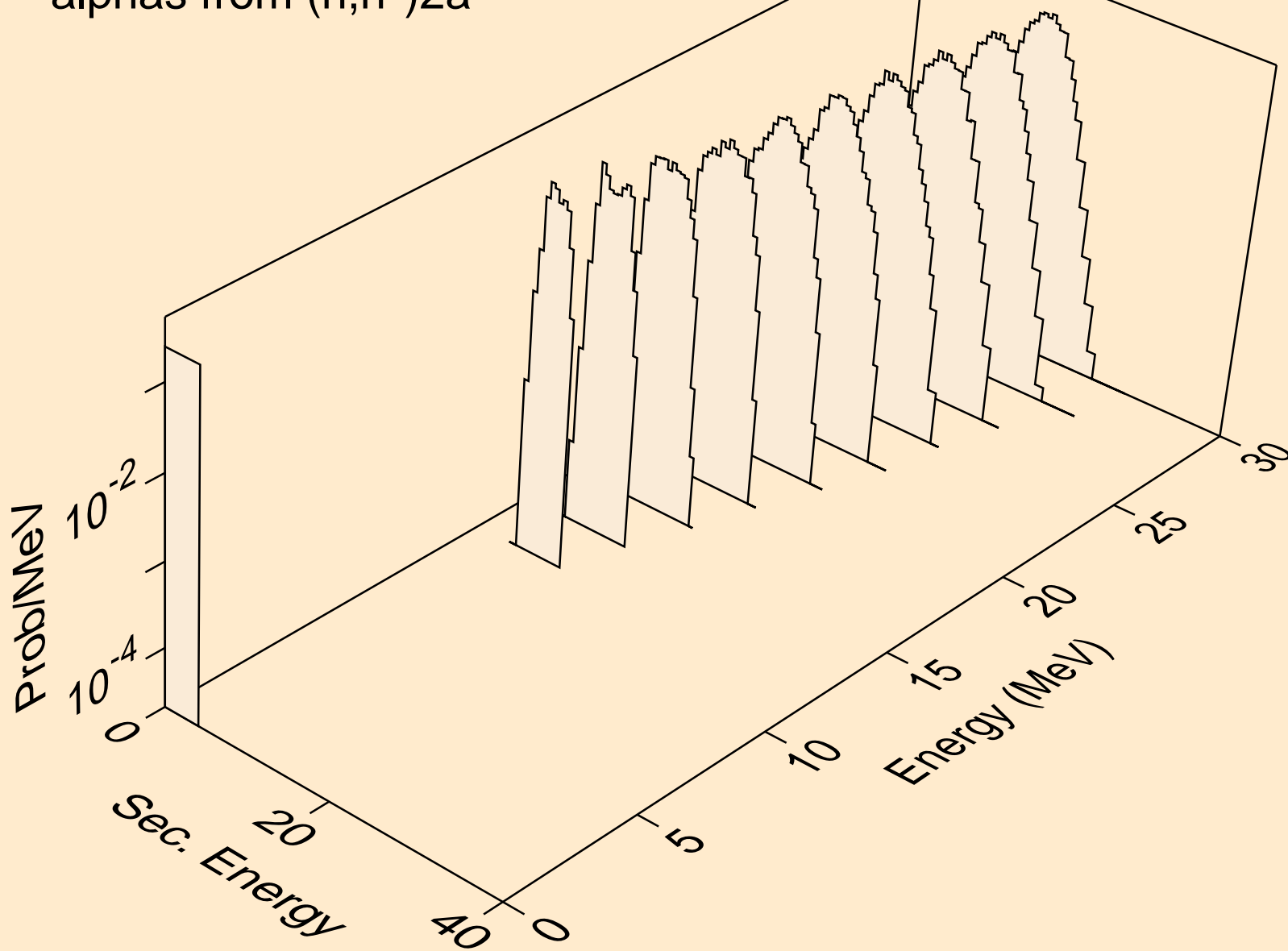
MAT=7640 ACE FILE PRODUCED AT NEA WITH NDEC  
alphas from (n,2n)a



MAT=7640 ACE FILE PRODUCED AT NEA WITH NDEC  
alphas from (n,3n)a

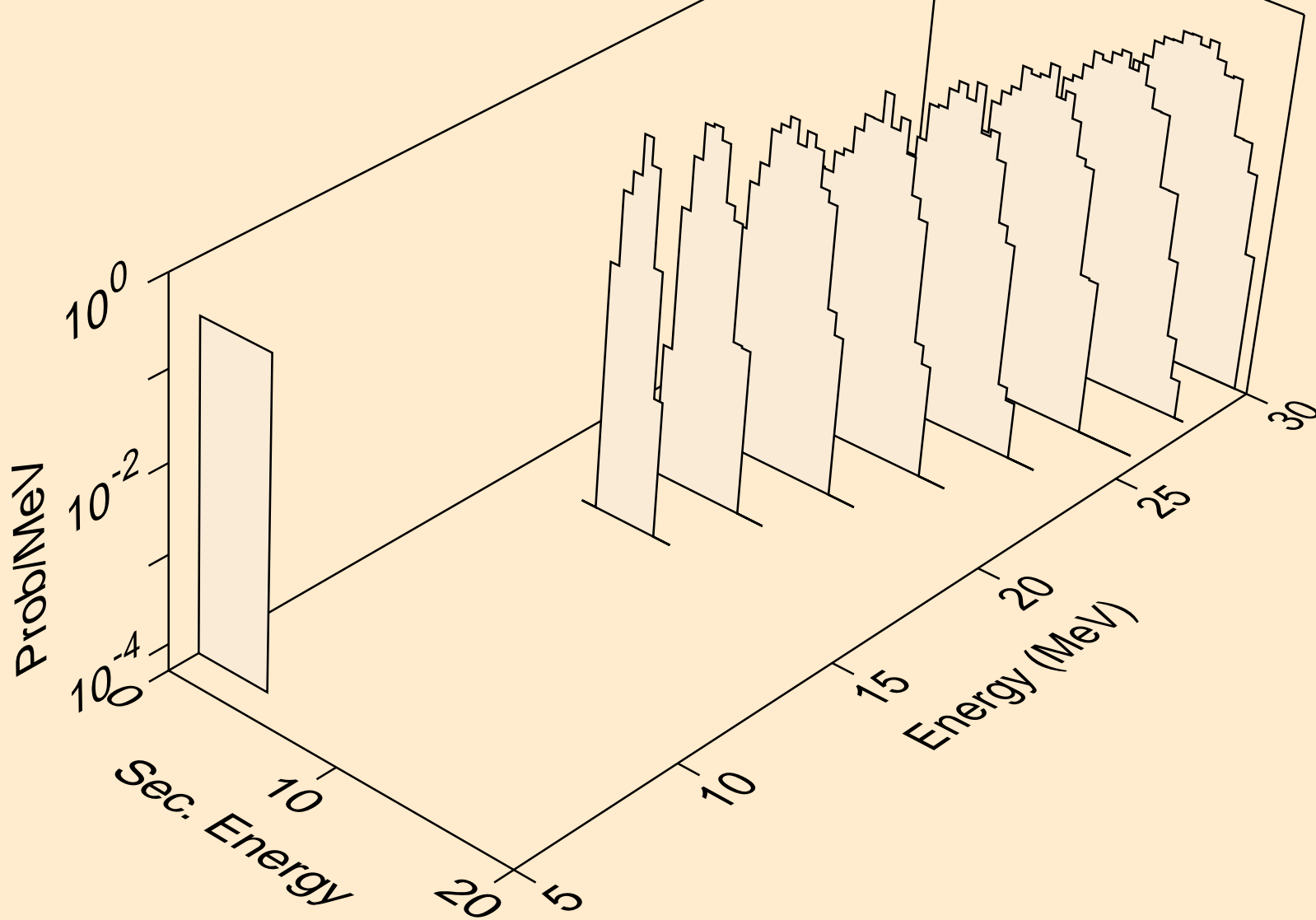


MAT=7640 ACE FILE PRODUCED AT NEA WITH NDEC  
alphas from (n,n\*)2a

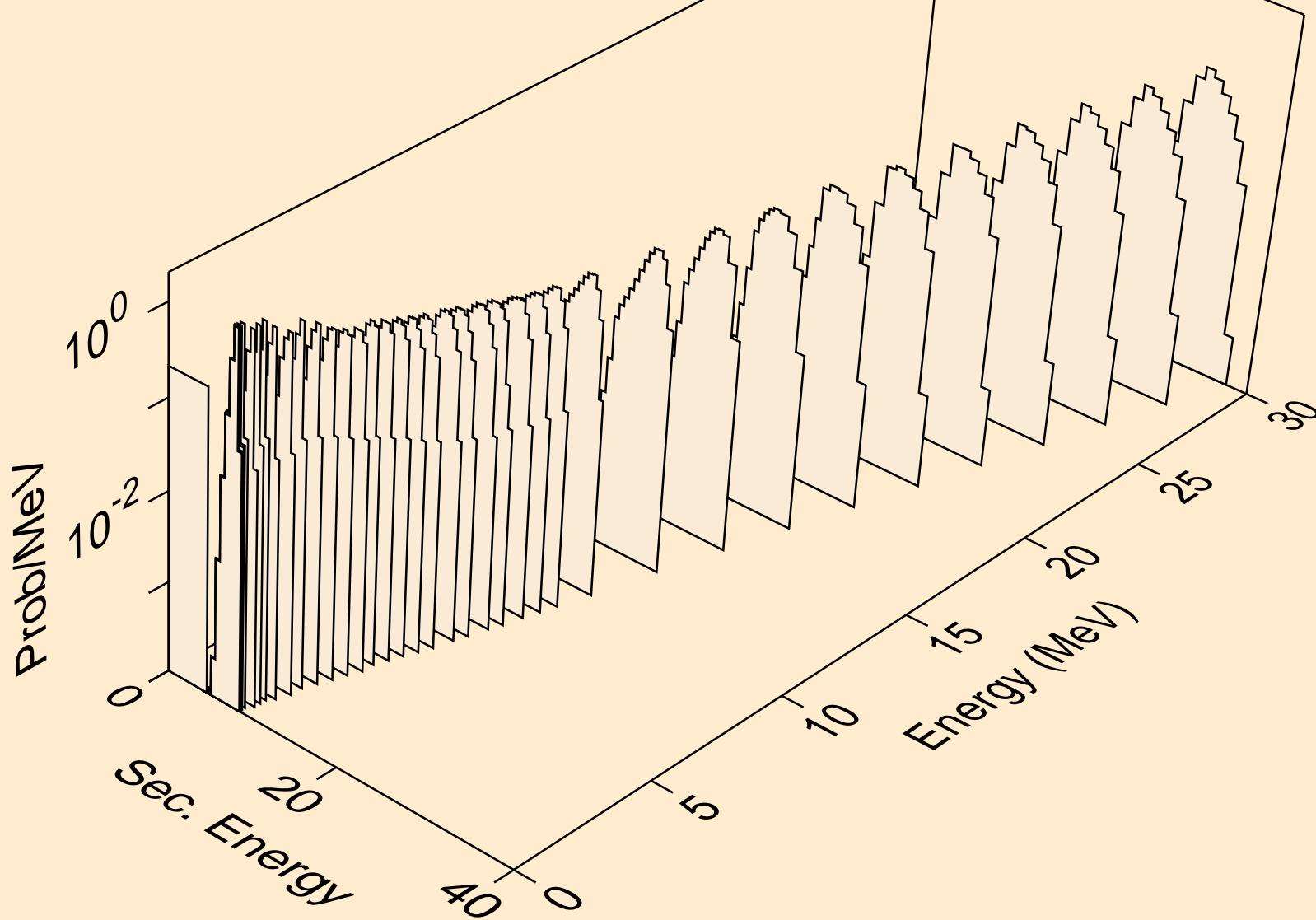




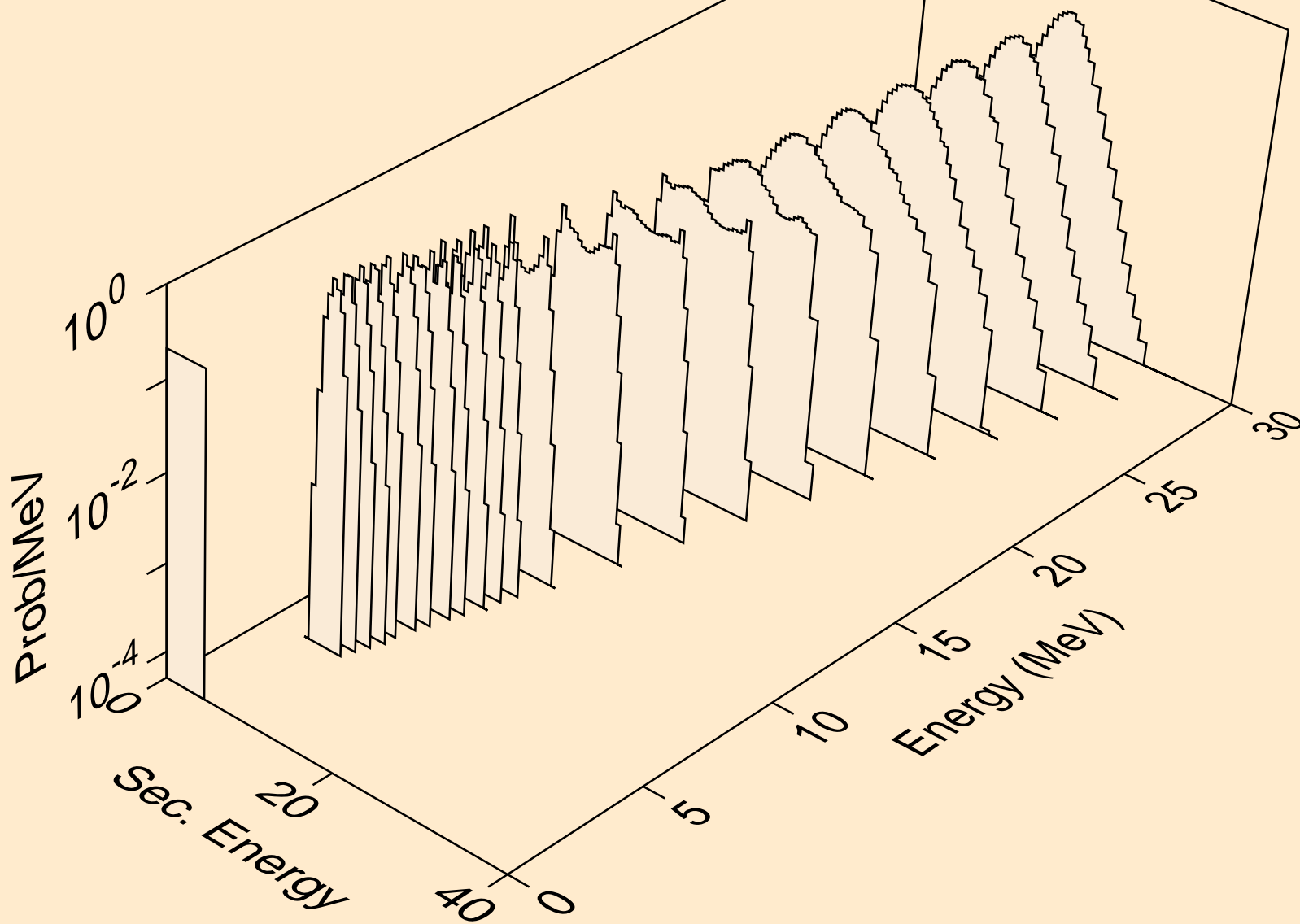
MAT=7640 ACE FILE PRODUCED AT NEA WITH NDEC  
alphas from (n,npa)



MAT=7640 ACE FILE PRODUCED AT NEA WITH NDEC  
alphas from (n,a)



MAT=7640 ACE FILE PRODUCED AT NEA WITH NDEC  
alphas from (n,2a)



MAT=7640 ACE FILE PRODUCED AT NEA WITH NDEC  
alphas from (n,pa)

