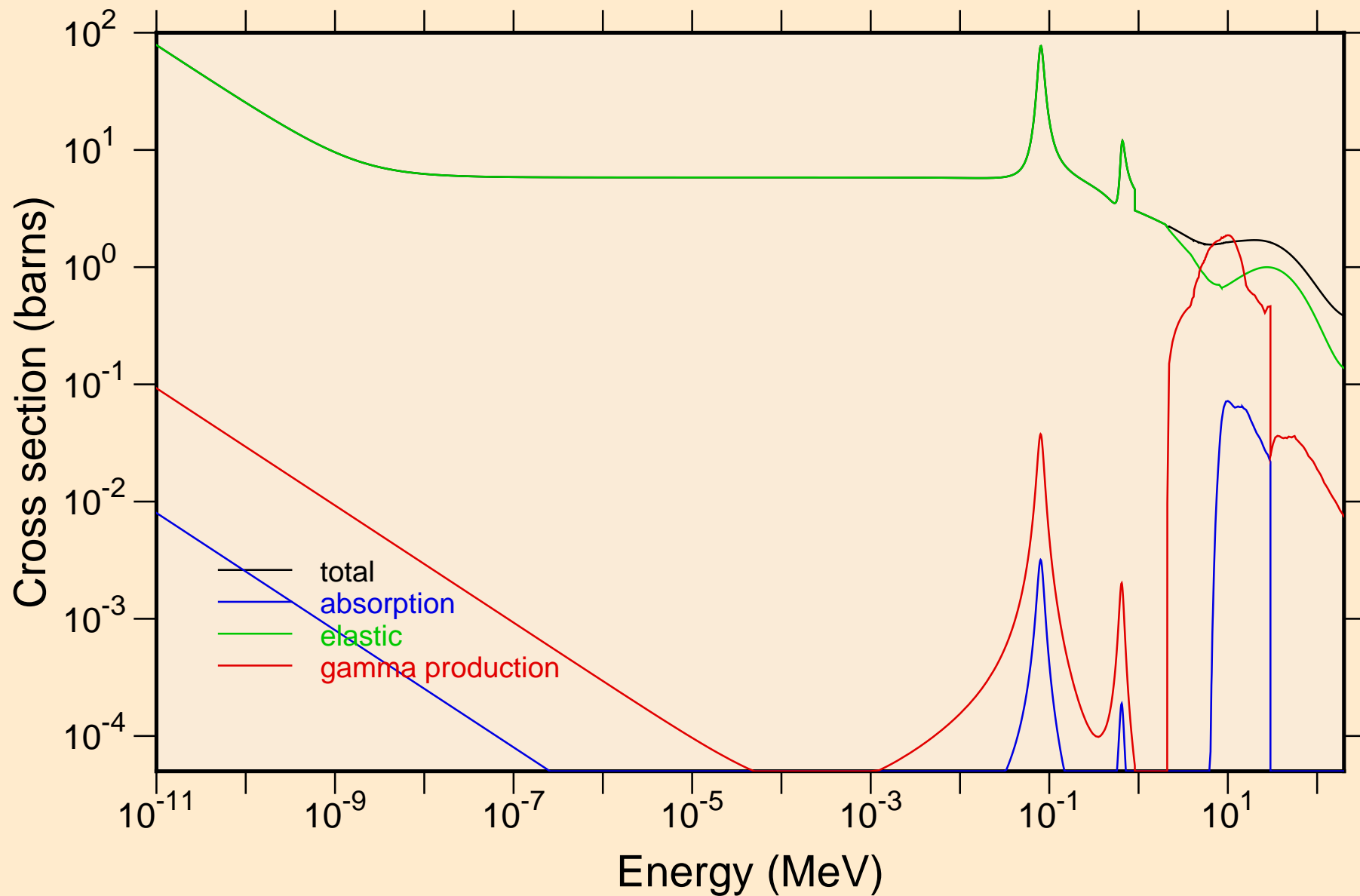
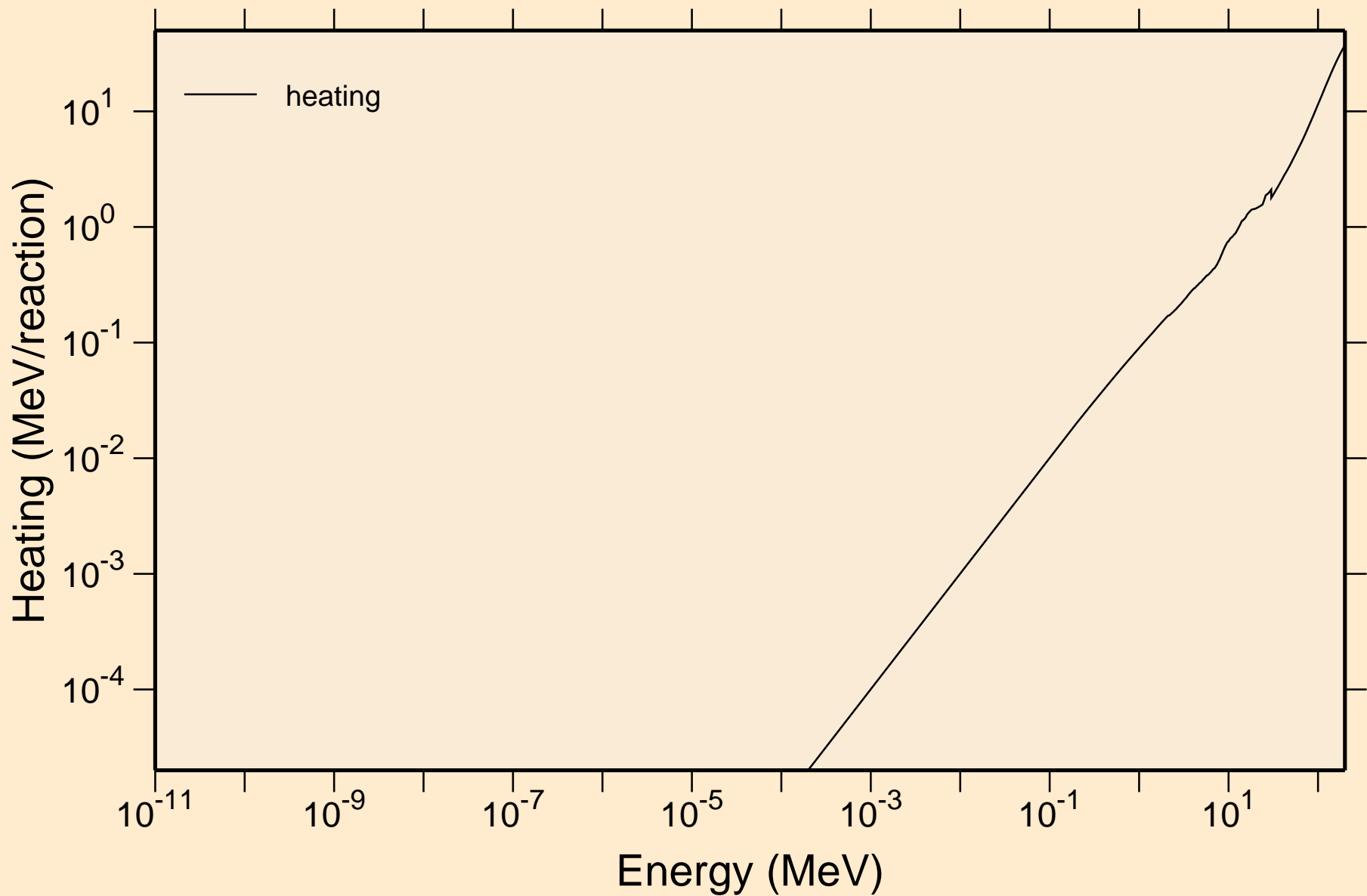


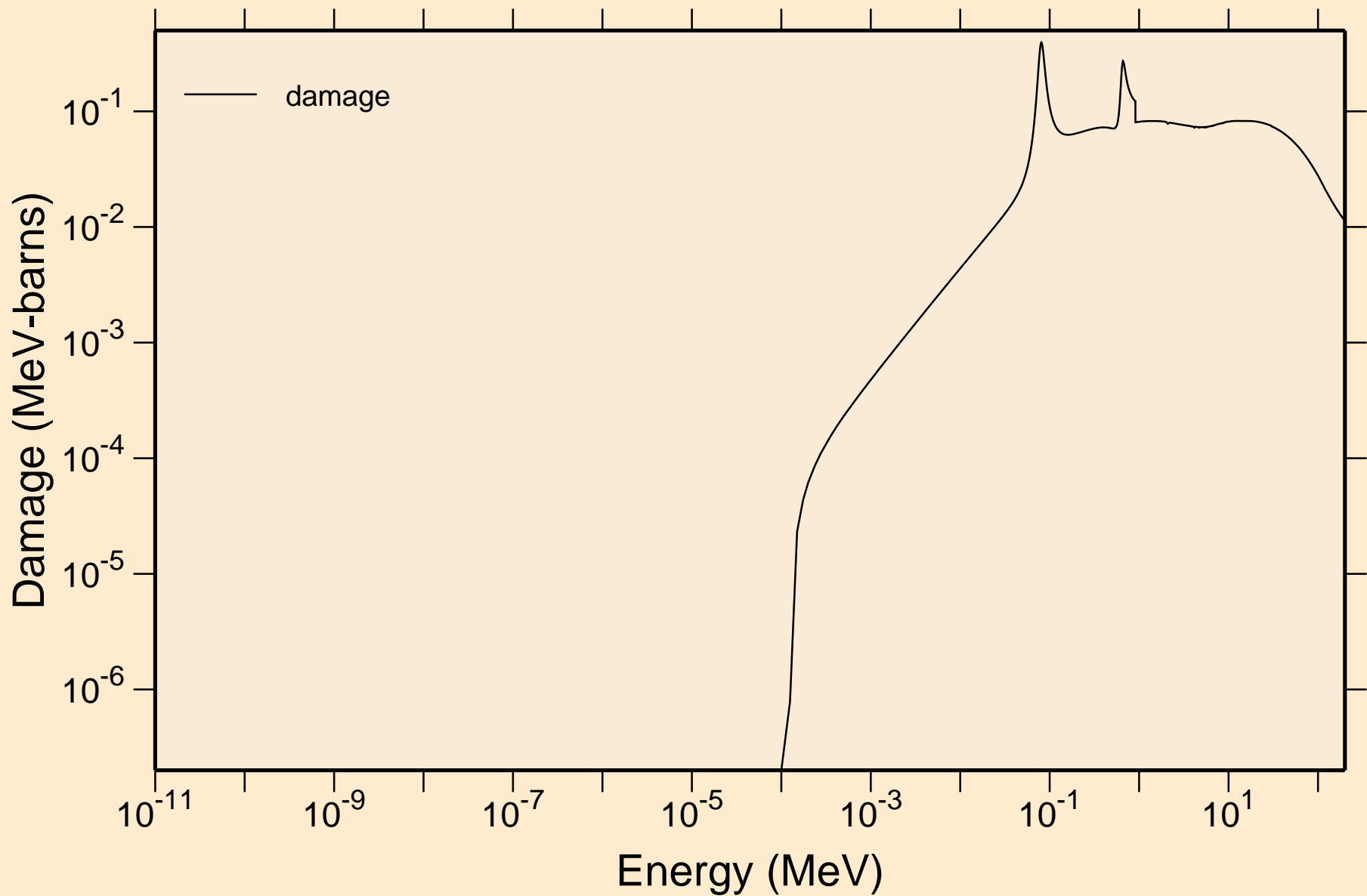
MAT=831 ACE FILE PRODUCED AT NEA WITH NDEC  
Principal cross sections



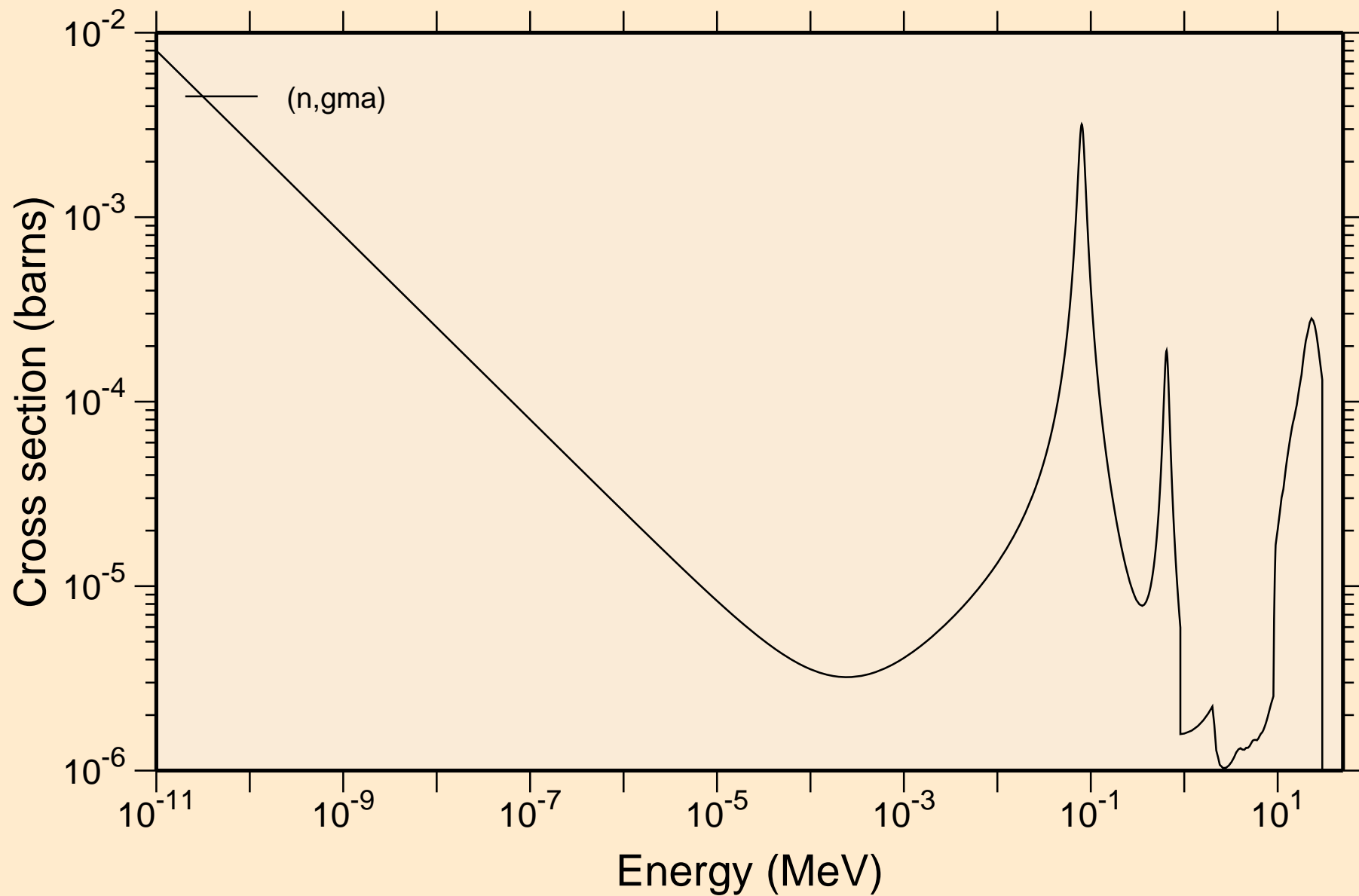
MAT=831 ACE FILE PRODUCED AT NEA WITH NDEC  
Heating



MAT=831 ACE FILE PRODUCED AT NEA WITH NDEC  
Damage

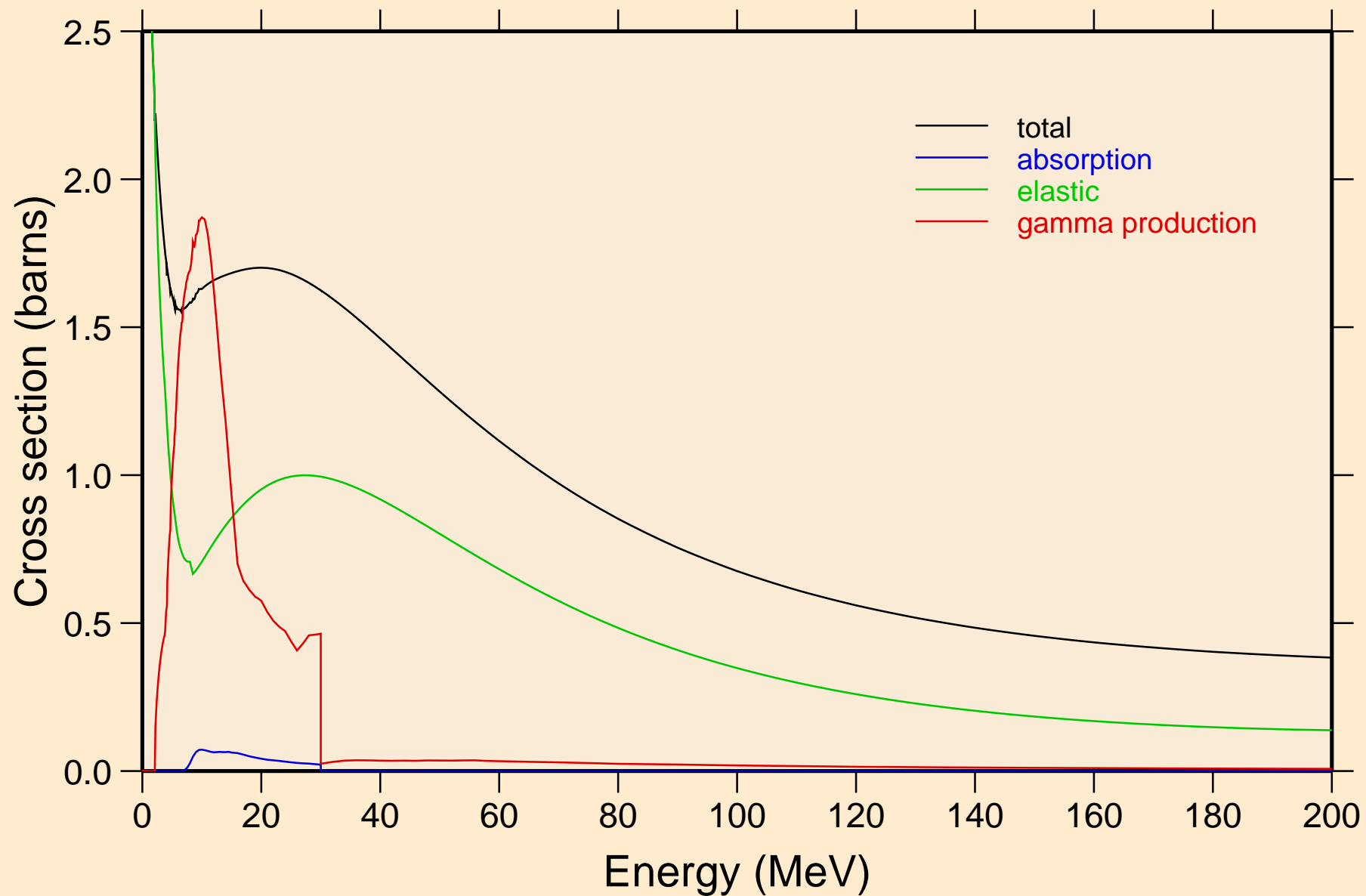


MAT=831 ACE FILE PRODUCED AT NEA WITH NDEC  
Non-threshold reactions

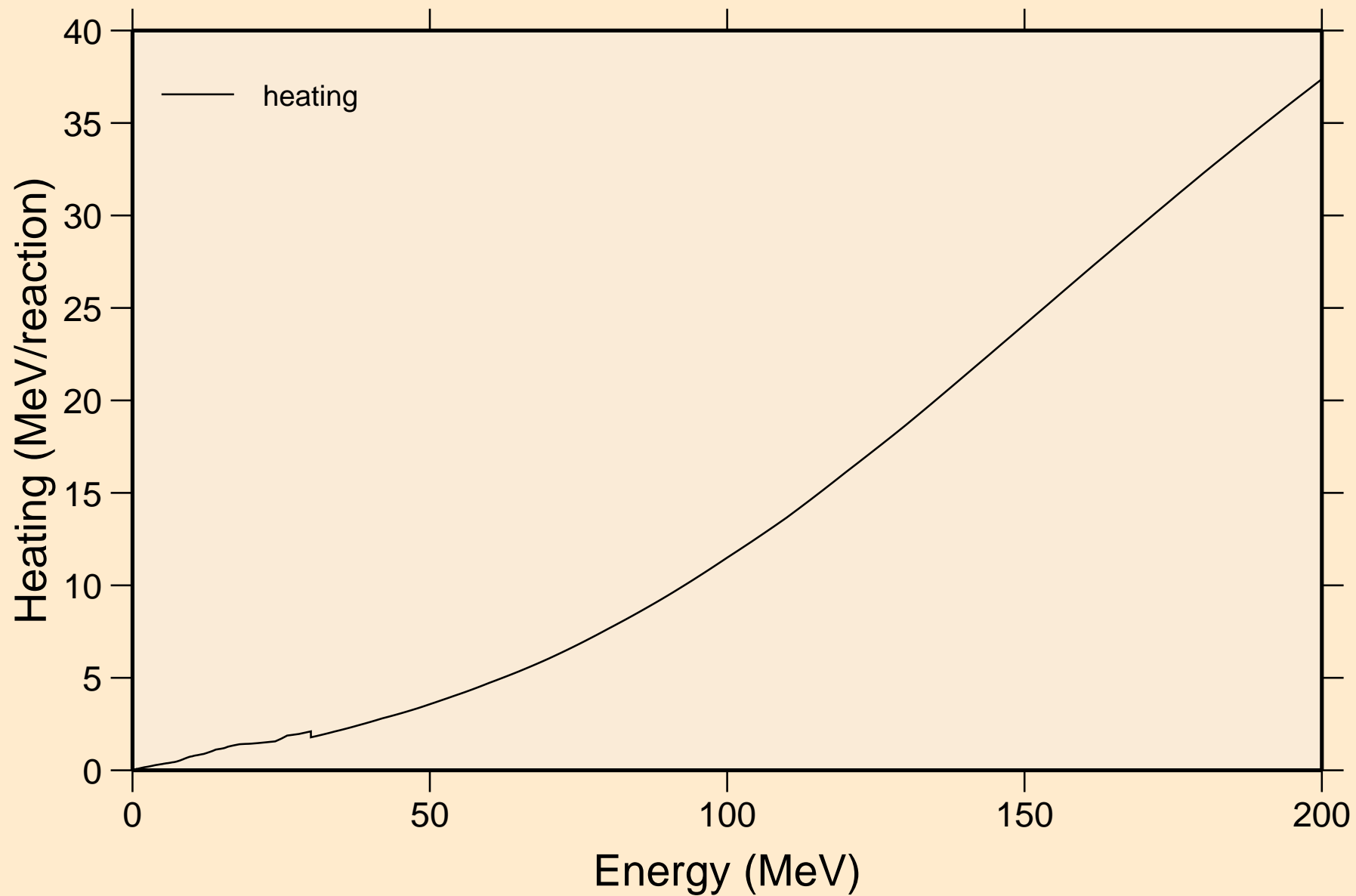


# MAT=831 ACE FILE PRODUCED AT NEA WITH NDEC

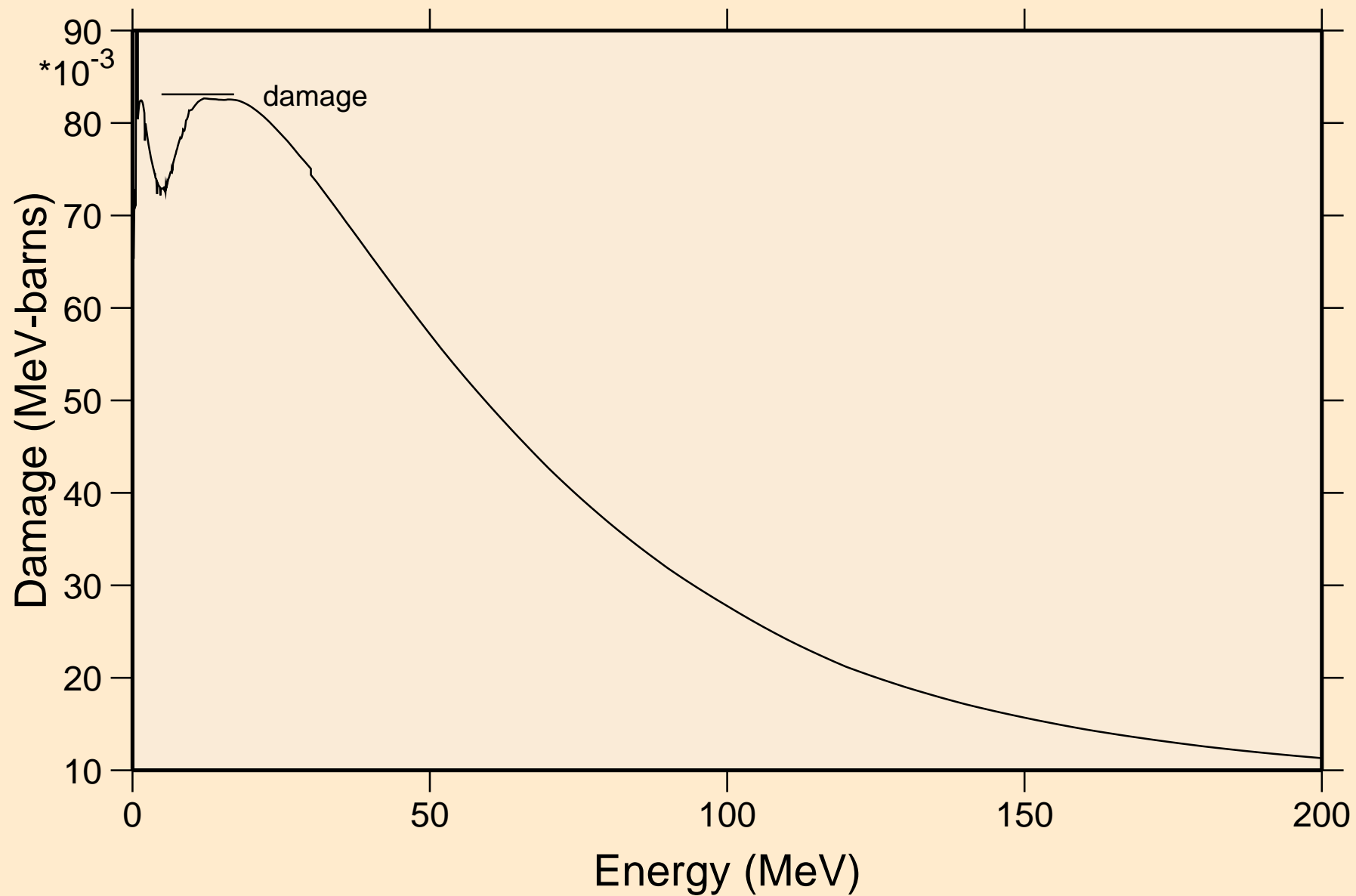
## Principal cross sections



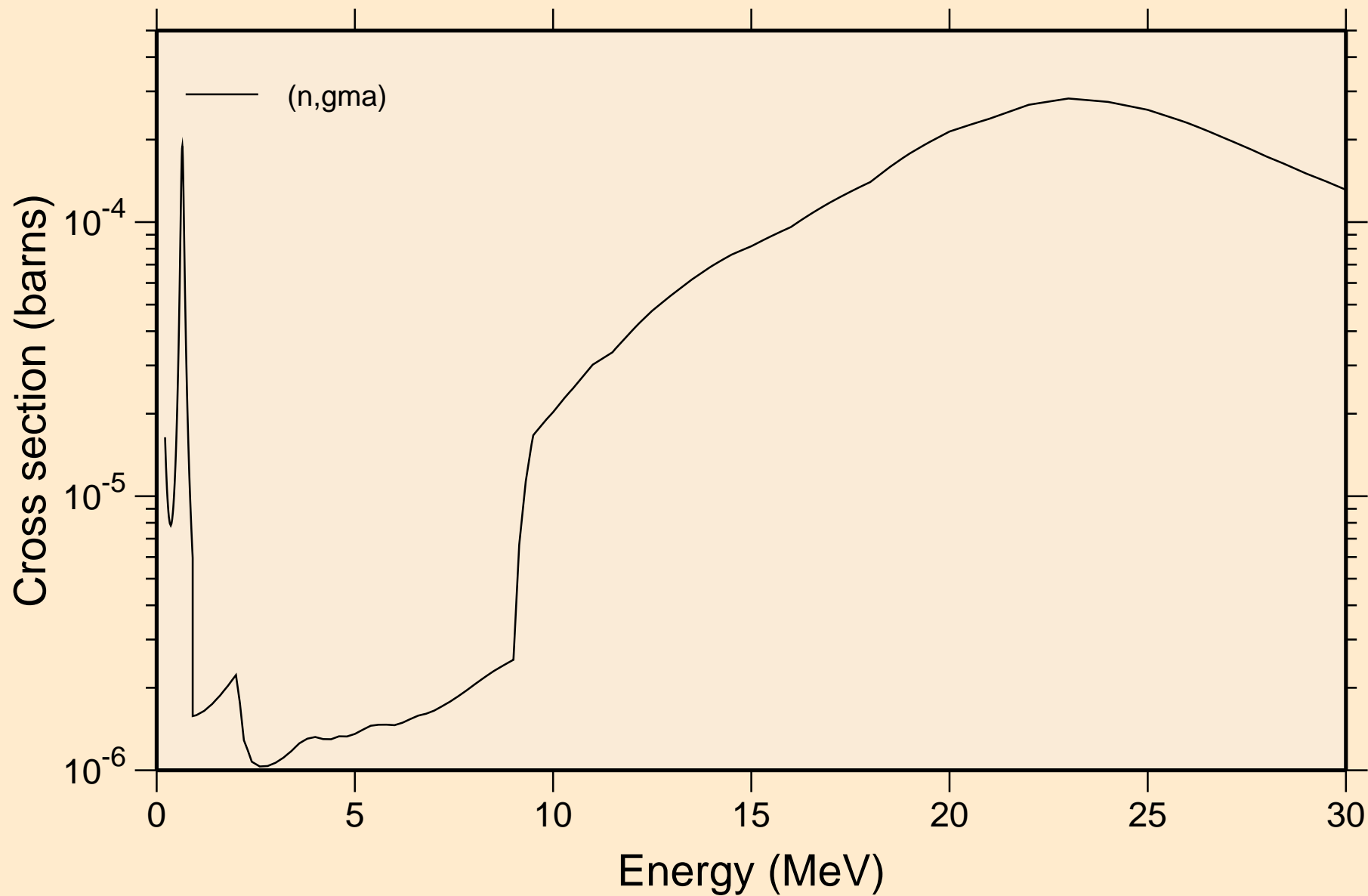
MAT=831 ACE FILE PRODUCED AT NEA WITH NDEC  
Heating



MAT=831 ACE FILE PRODUCED AT NEA WITH NDEC  
Damage

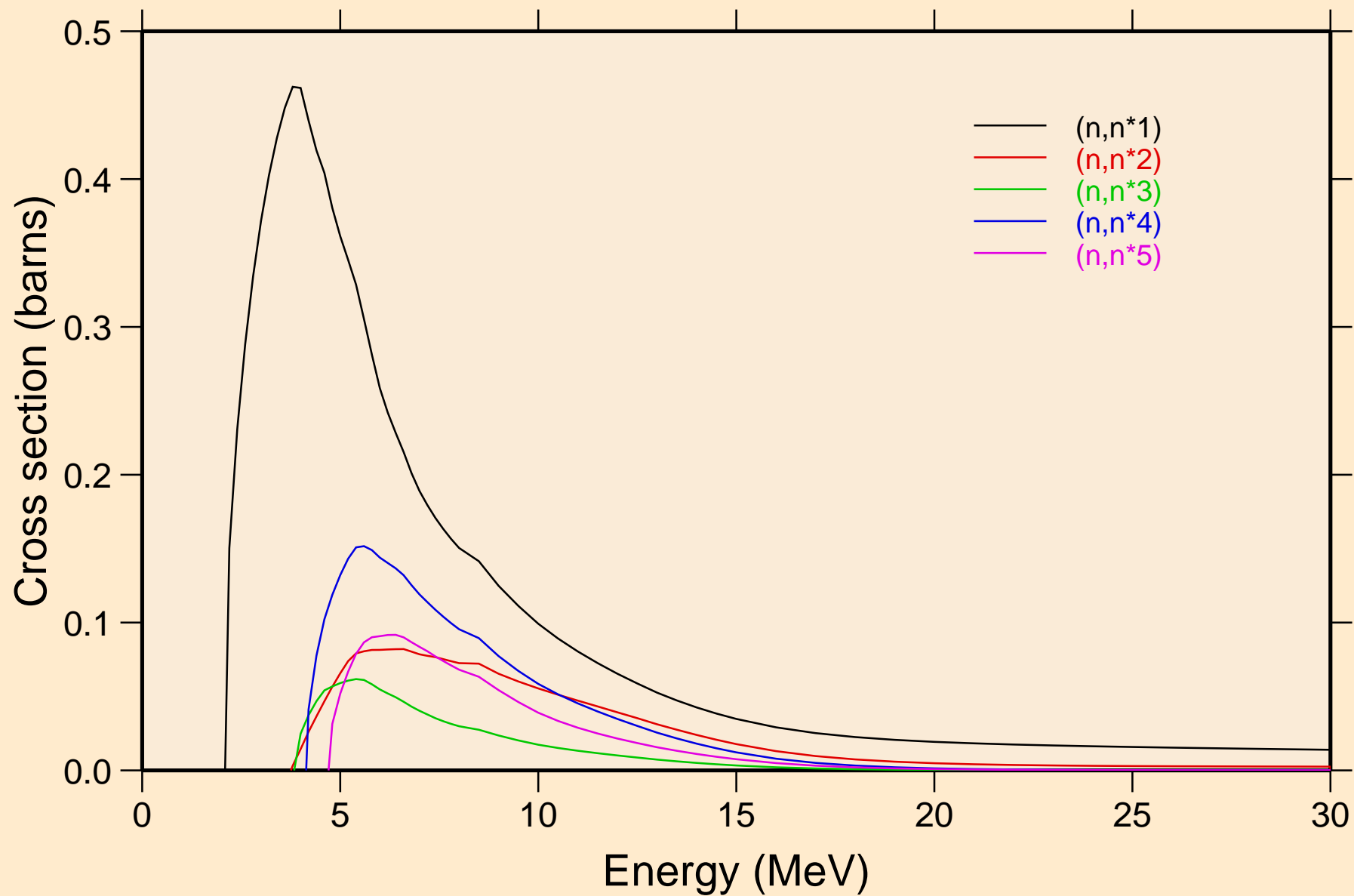


MAT=831 ACE FILE PRODUCED AT NEA WITH NDEC  
Non-threshold reactions

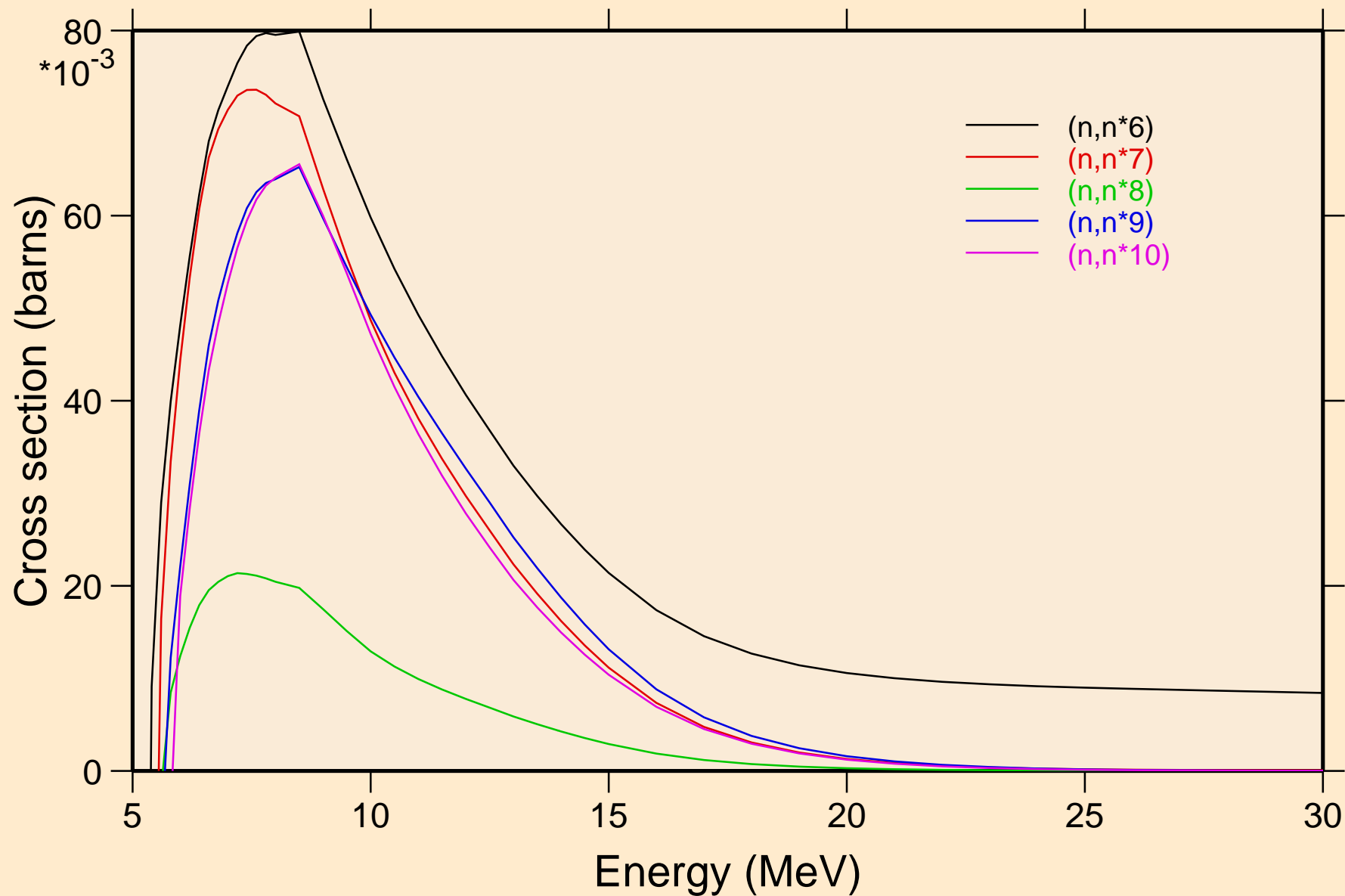




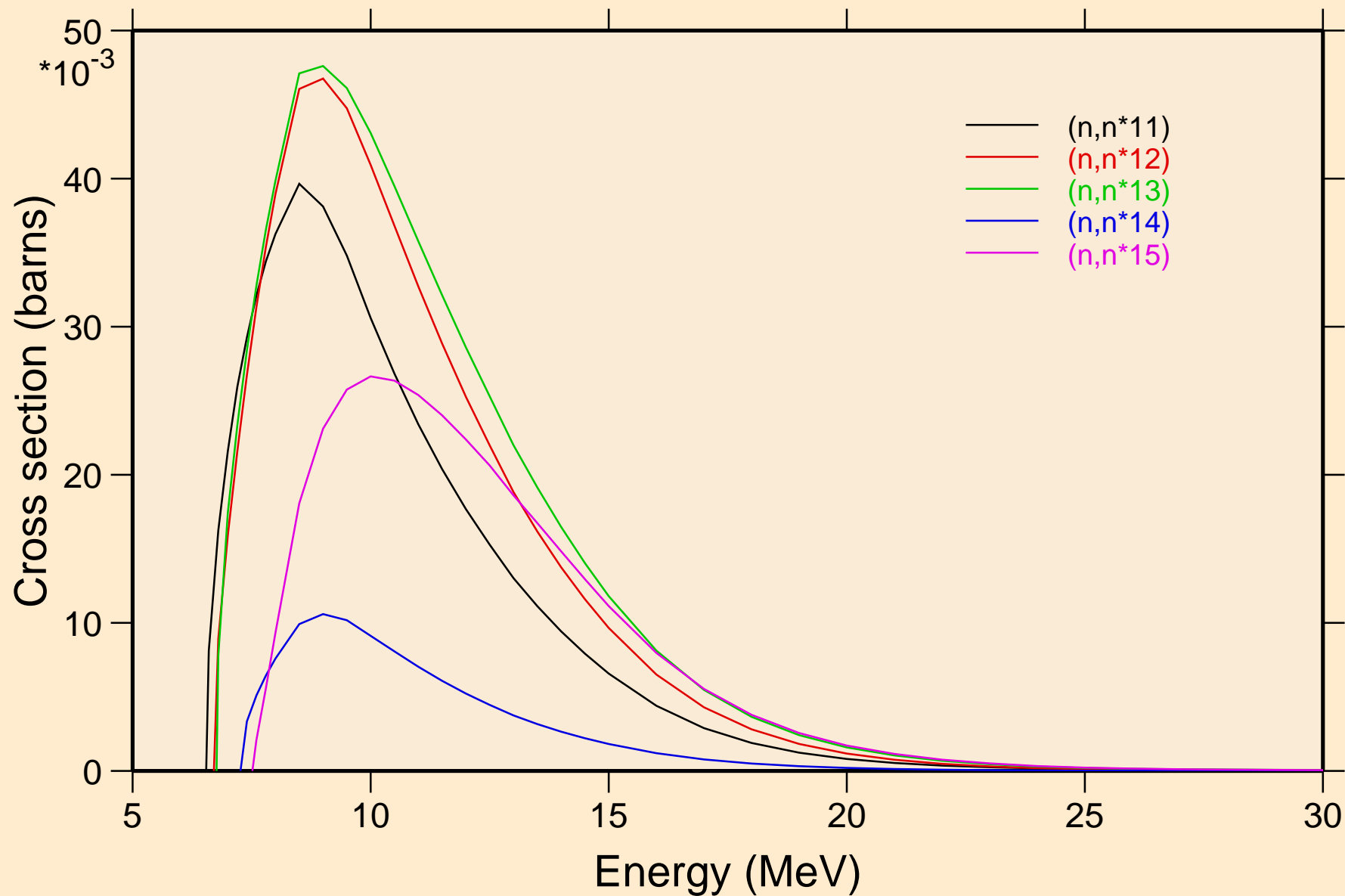
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Inelastic levels



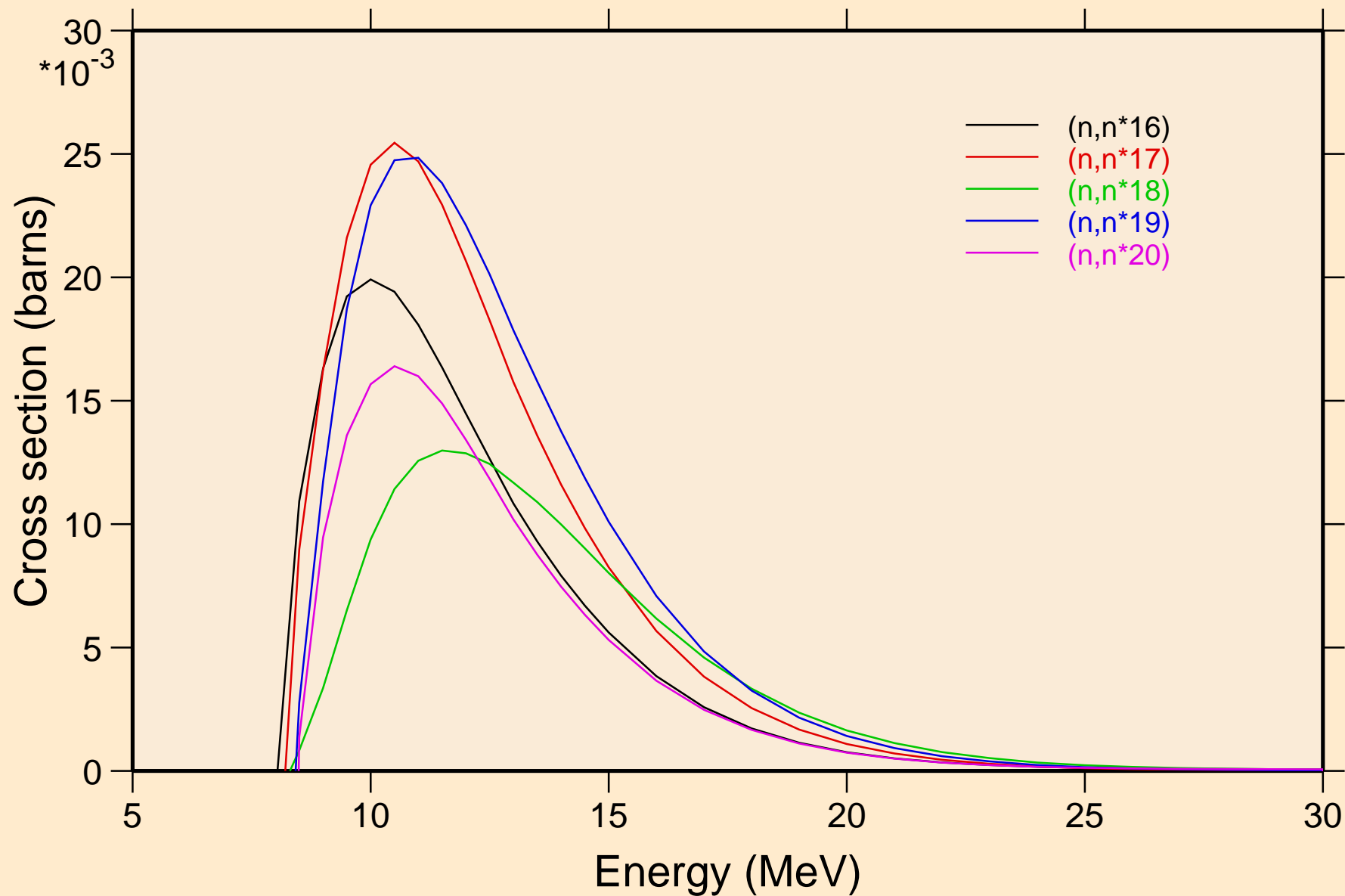
MAT=831 ACE FILE PRODUCED AT NEA WITH NDEC  
Inelastic levels



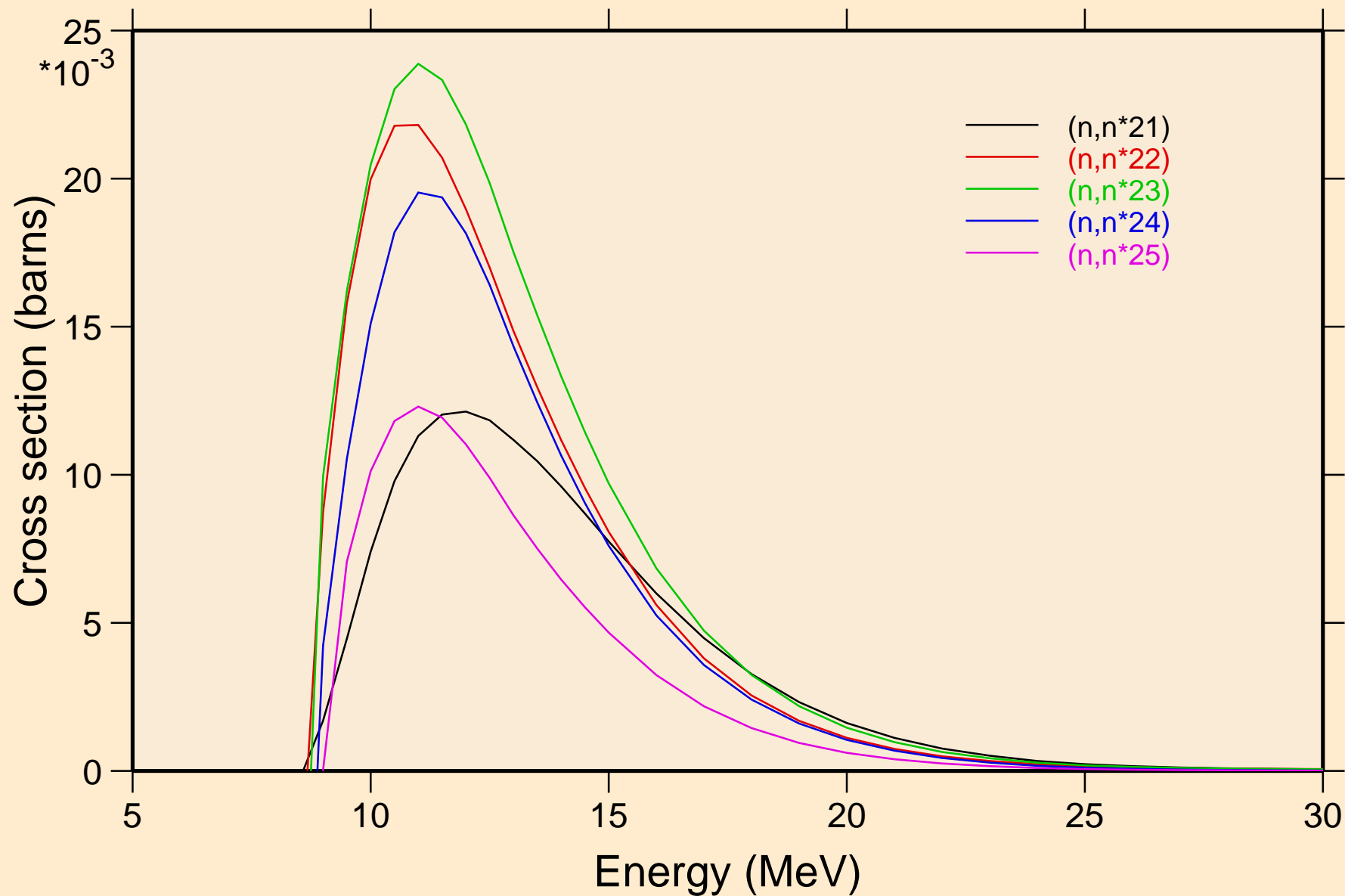
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Inelastic levels



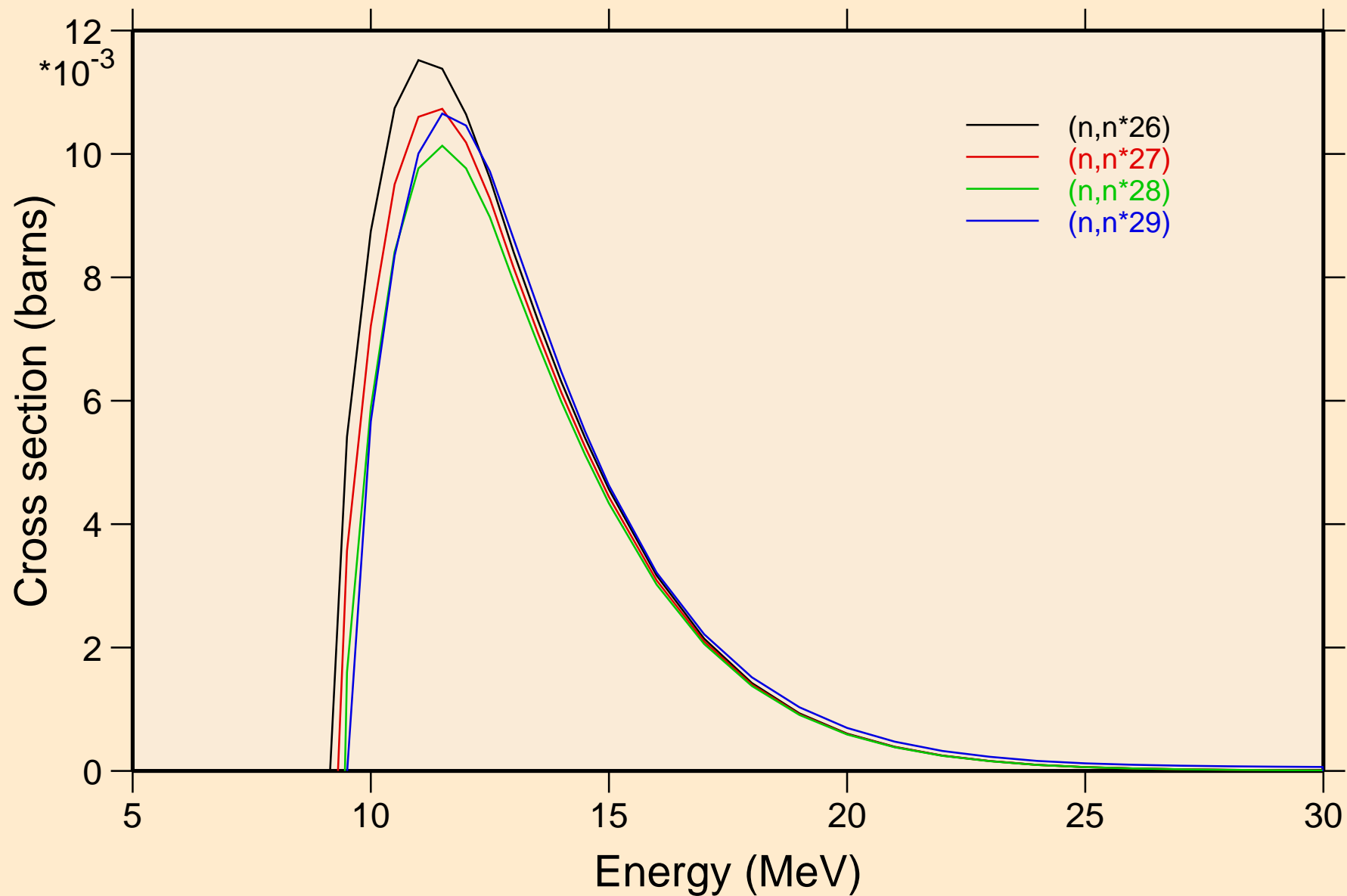
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Inelastic levels



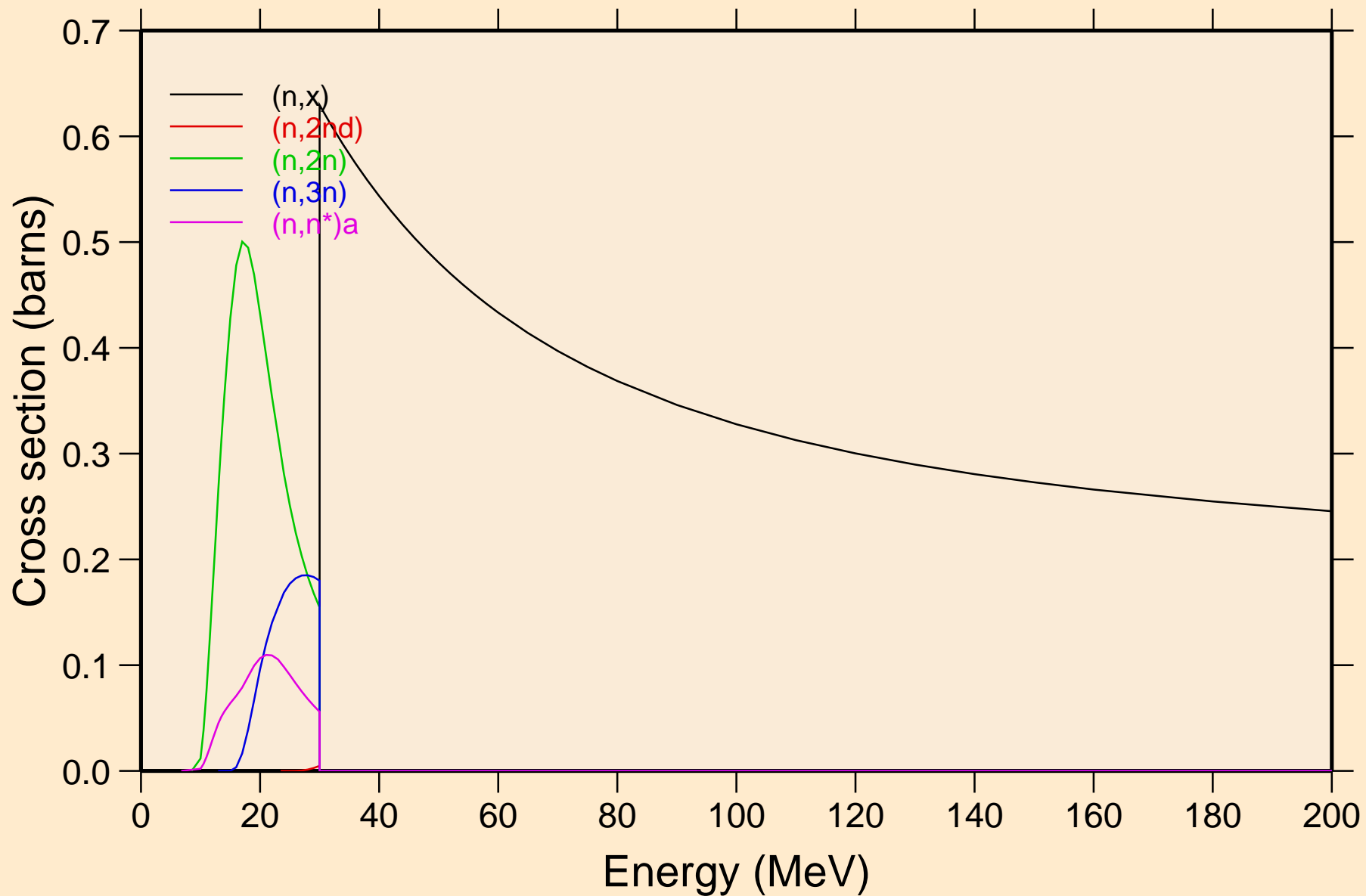
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Inelastic levels



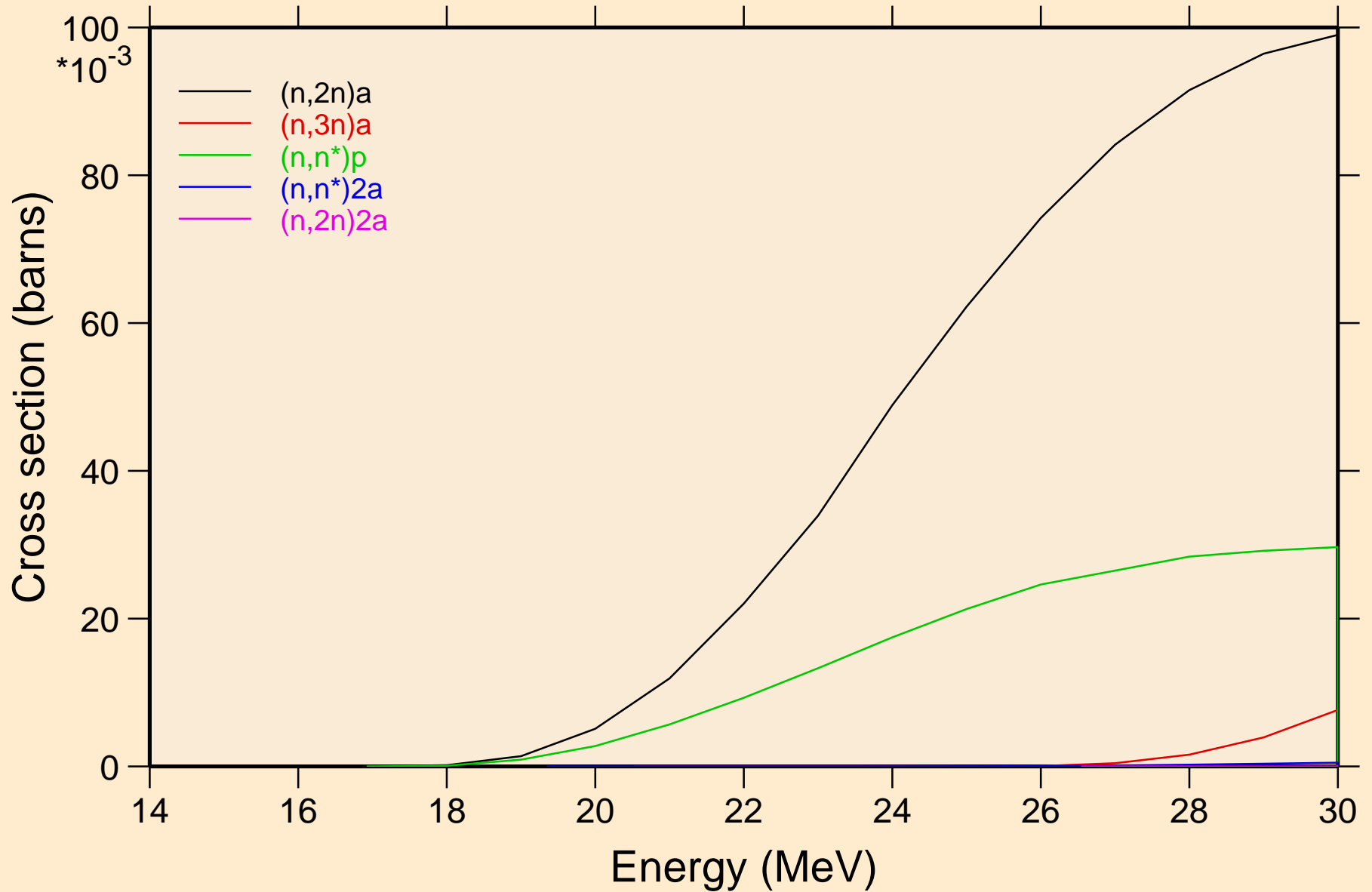
MAT=831 ACE FILE PRODUCED AT NEA WITH NDEC  
Inelastic levels



MAT=831 ACE FILE PRODUCED AT NEA WITH NDEC  
Threshold reactions

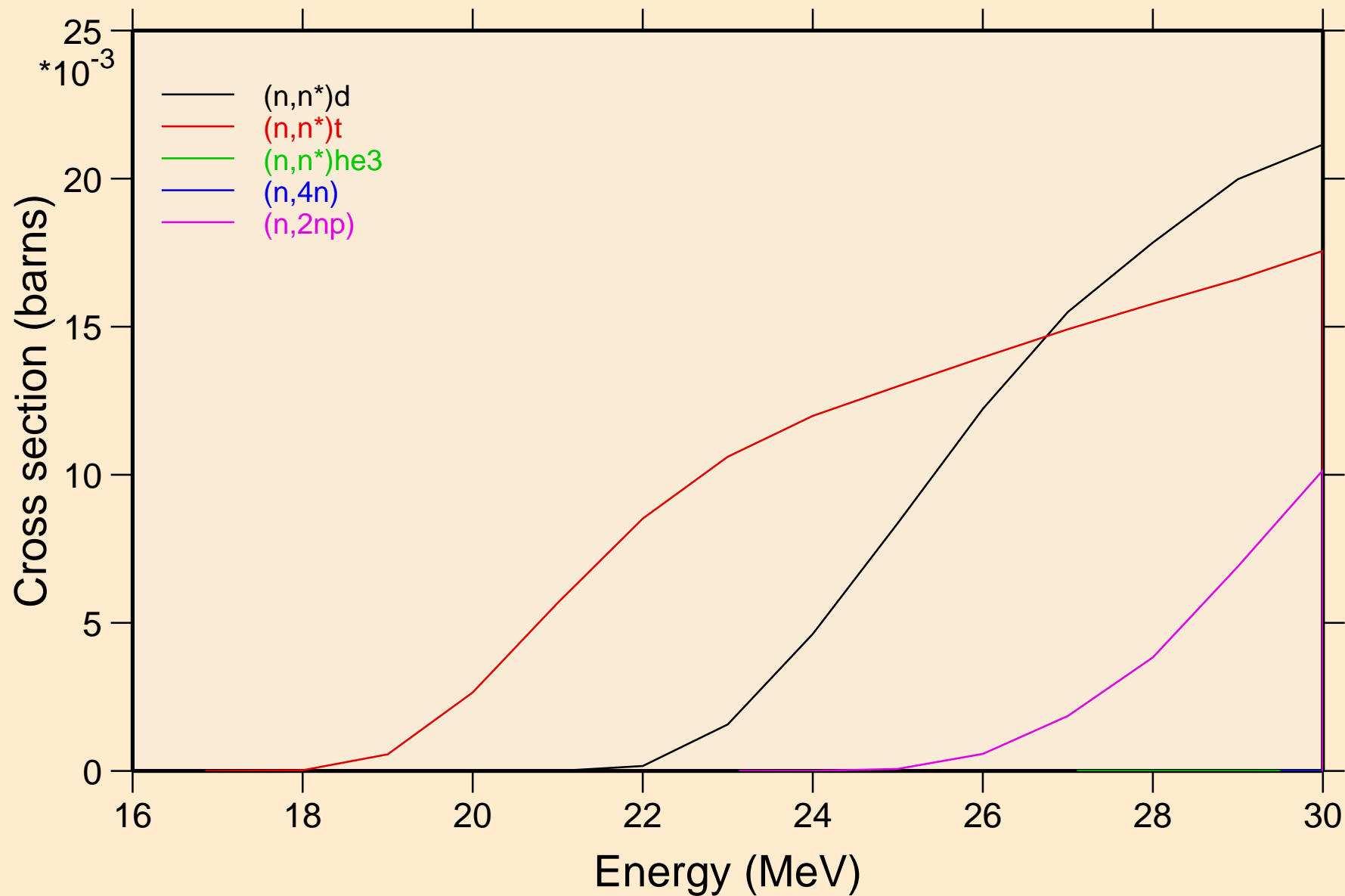


MAT=831 ACE FILE PRODUCED AT NEA WITH NDEC  
Threshold reactions

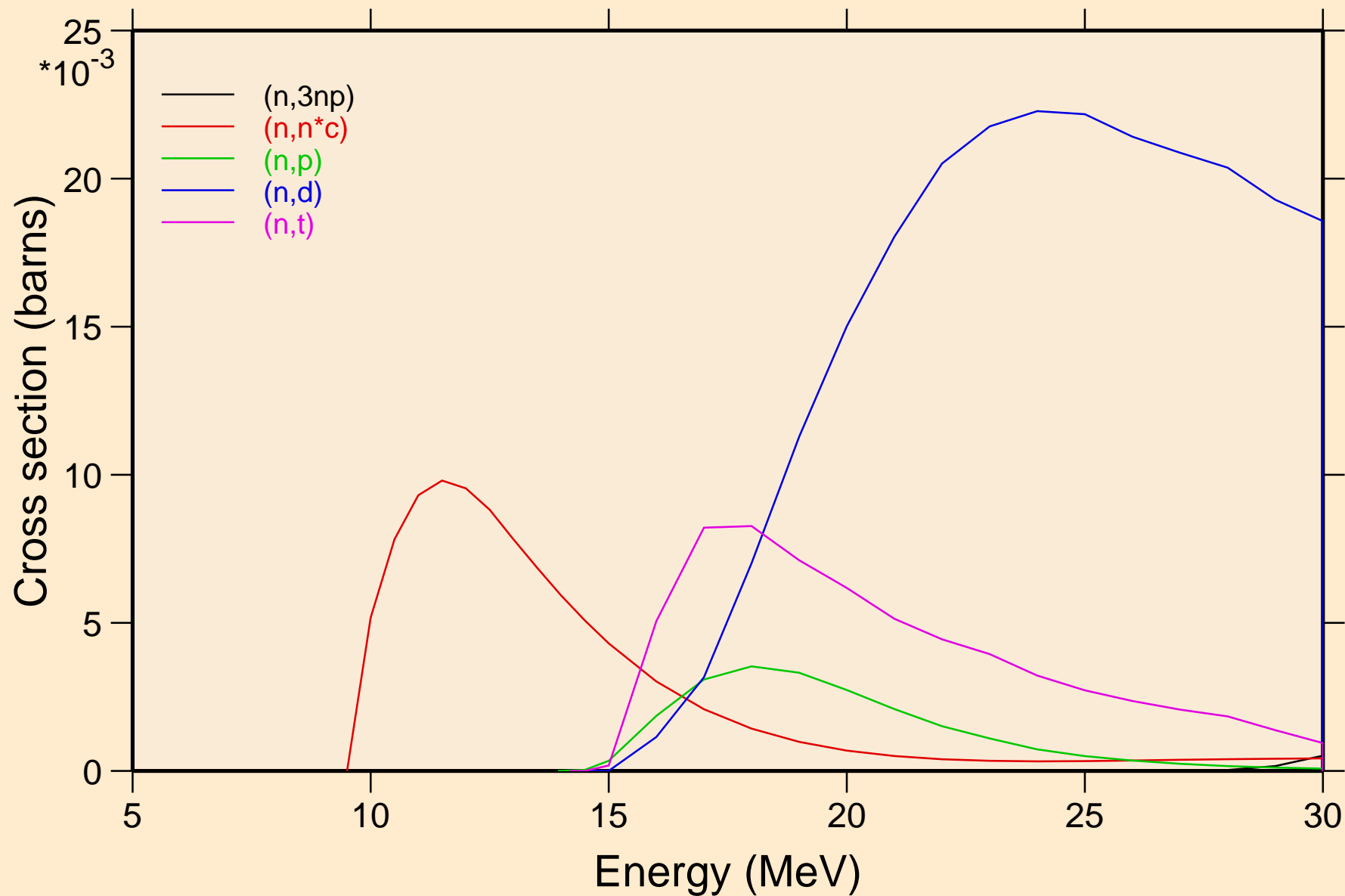




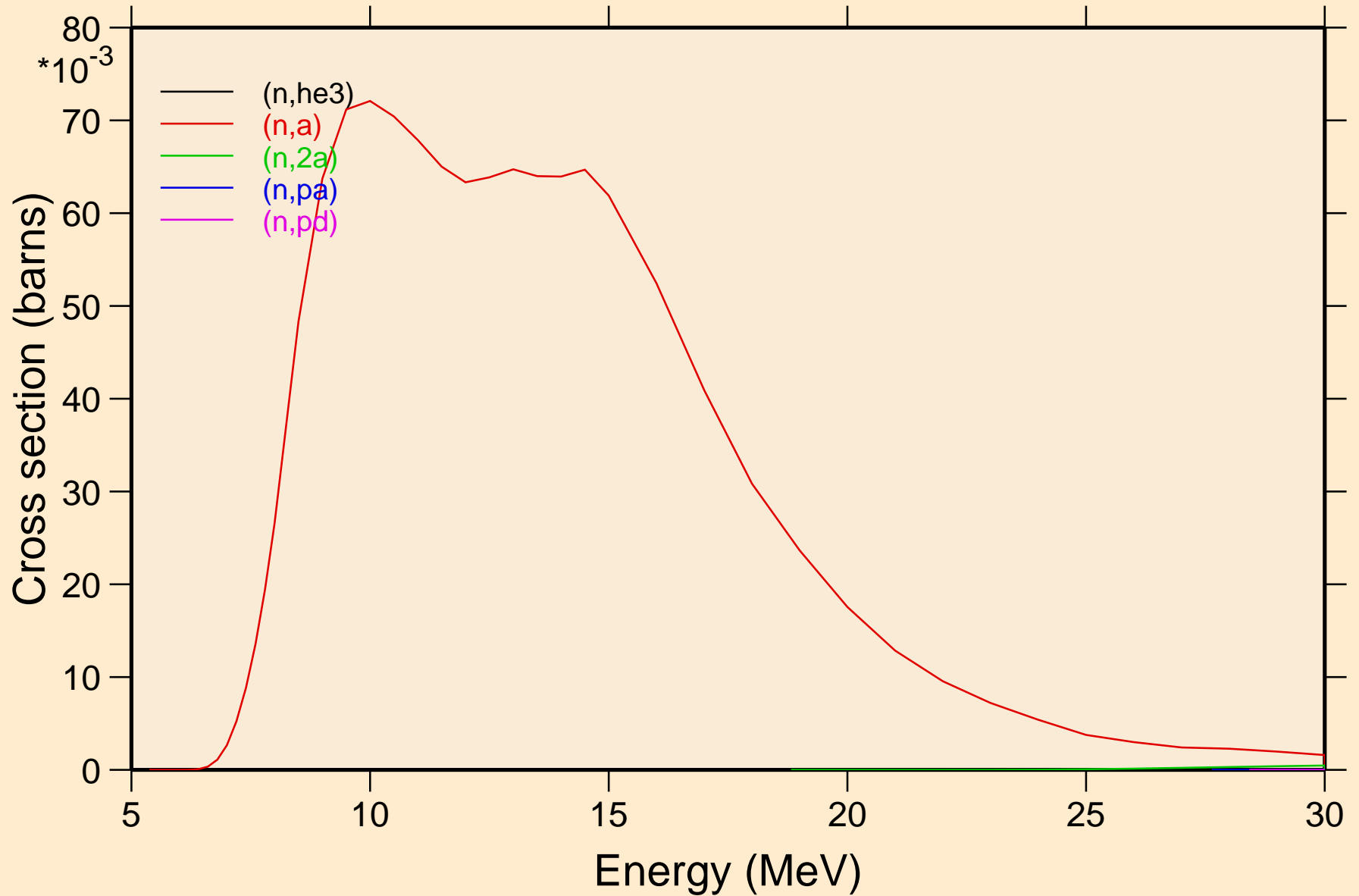
MAT=831 ACE FILE PRODUCED AT NEA WITH NDEC  
Threshold reactions



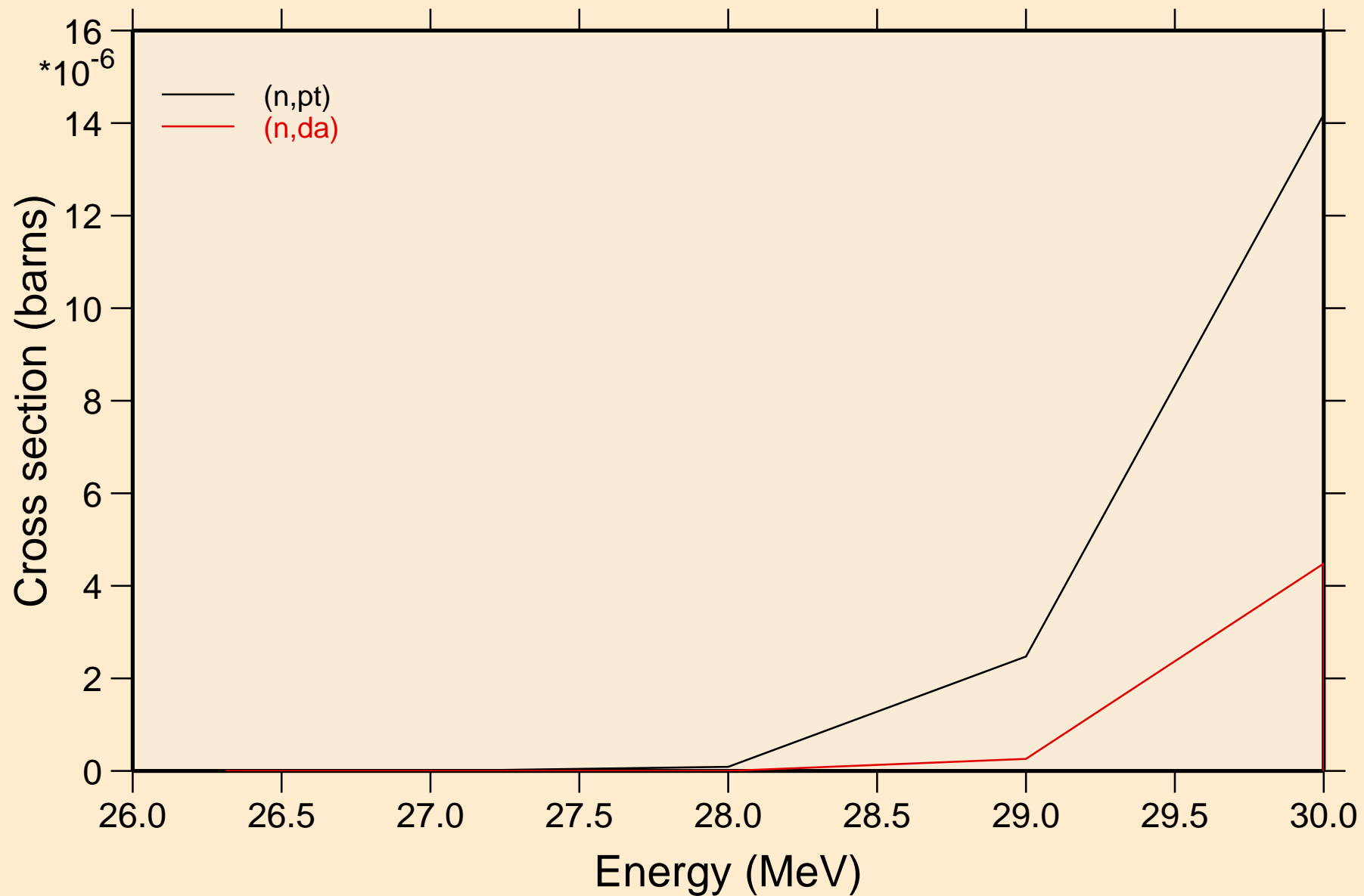
MAT=831 ACE FILE PRODUCED AT NEA WITH NDEC  
Threshold reactions



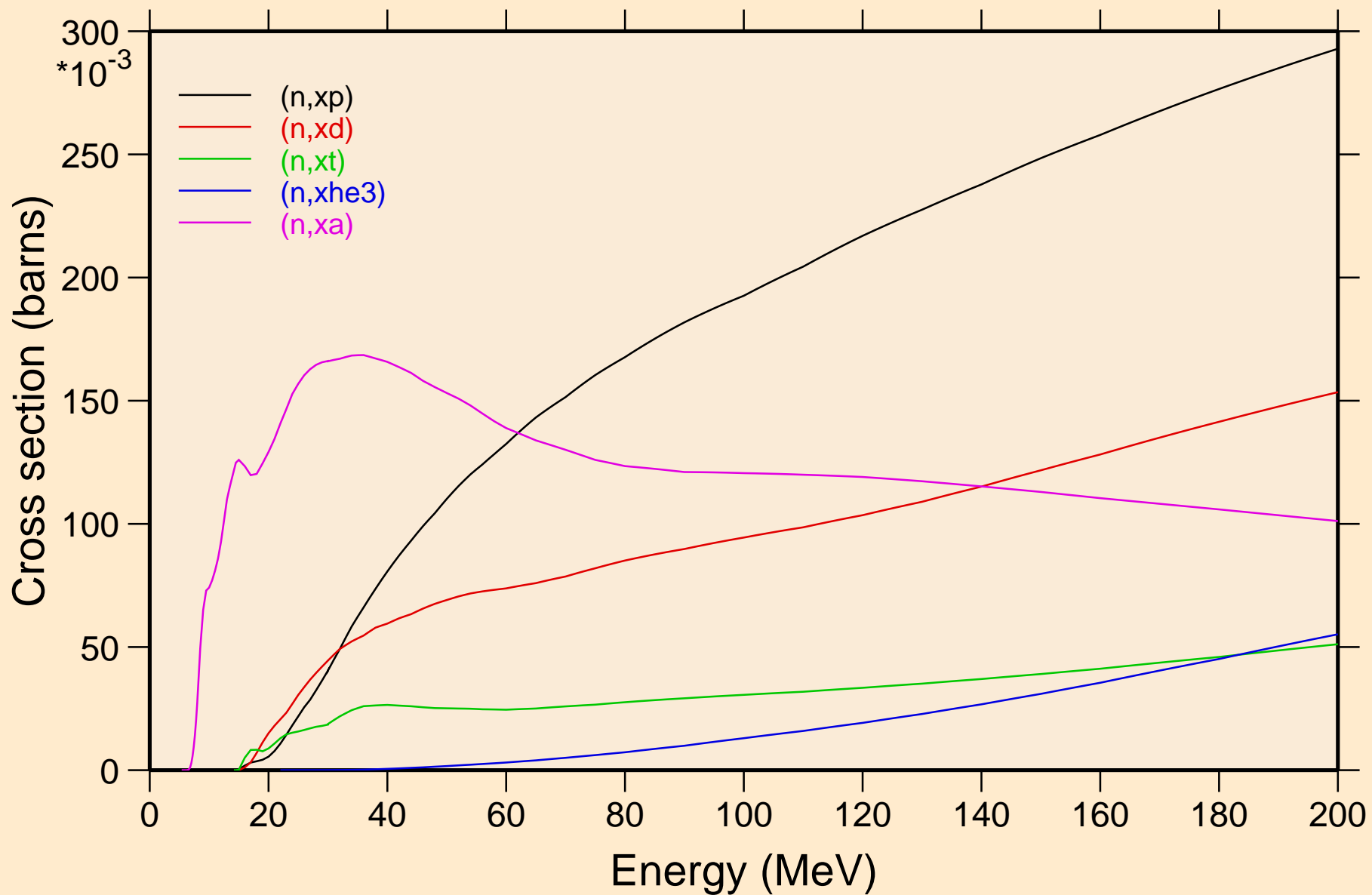
MAT=831 ACE FILE PRODUCED AT NEA WITH NDEC  
Threshold reactions



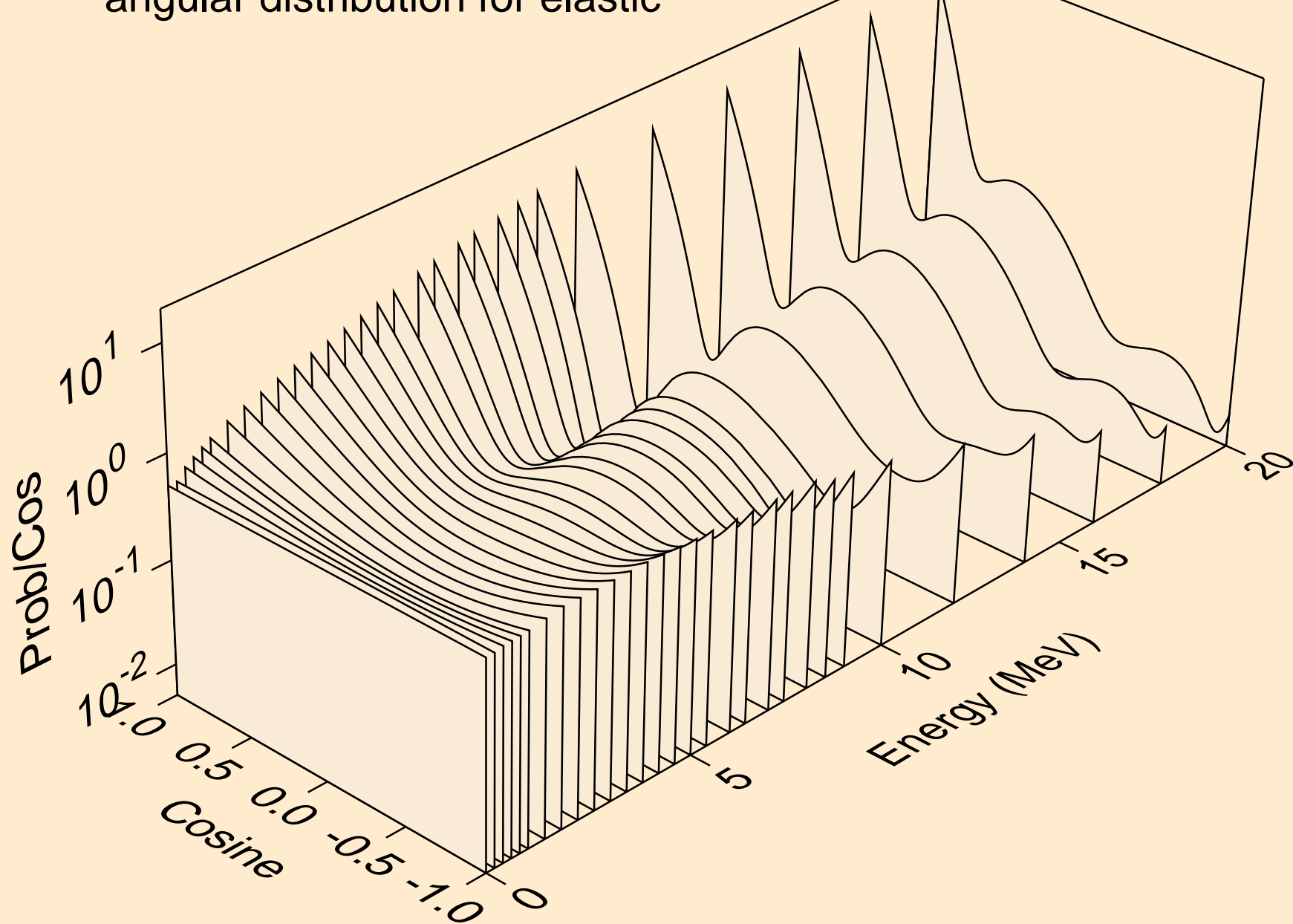
MAT=831 ACE FILE PRODUCED AT NEA WITH NDEC  
Threshold reactions



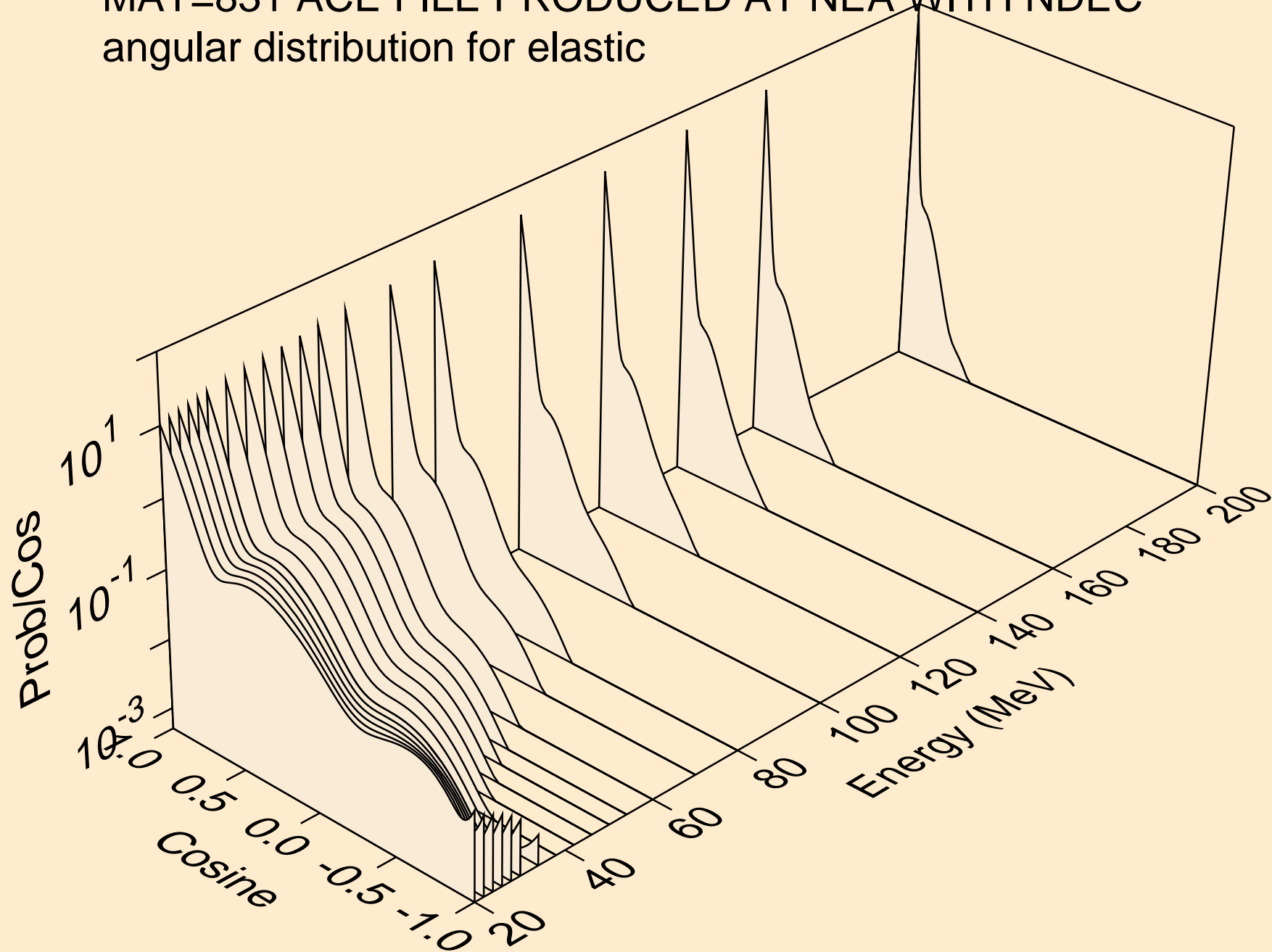
MAT=831 ACE FILE PRODUCED AT NEA WITH NDEC  
Threshold reactions



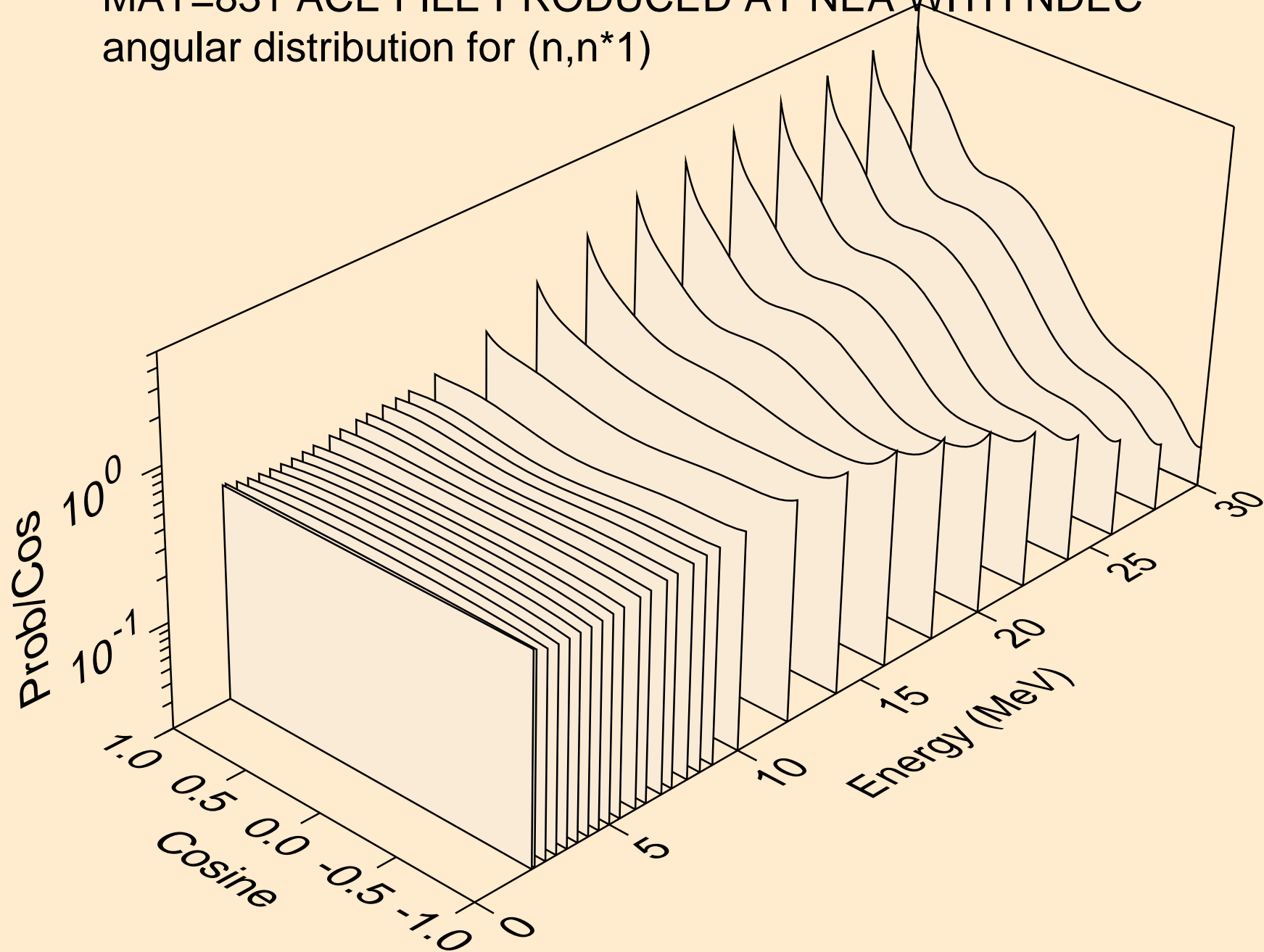
MAT=831 ACE FILE PRODUCED AT NEA WITH NDEC  
angular distribution for elastic



MAT=831 ACE FILE PRODUCED AT NEA WITH NDEC  
angular distribution for elastic

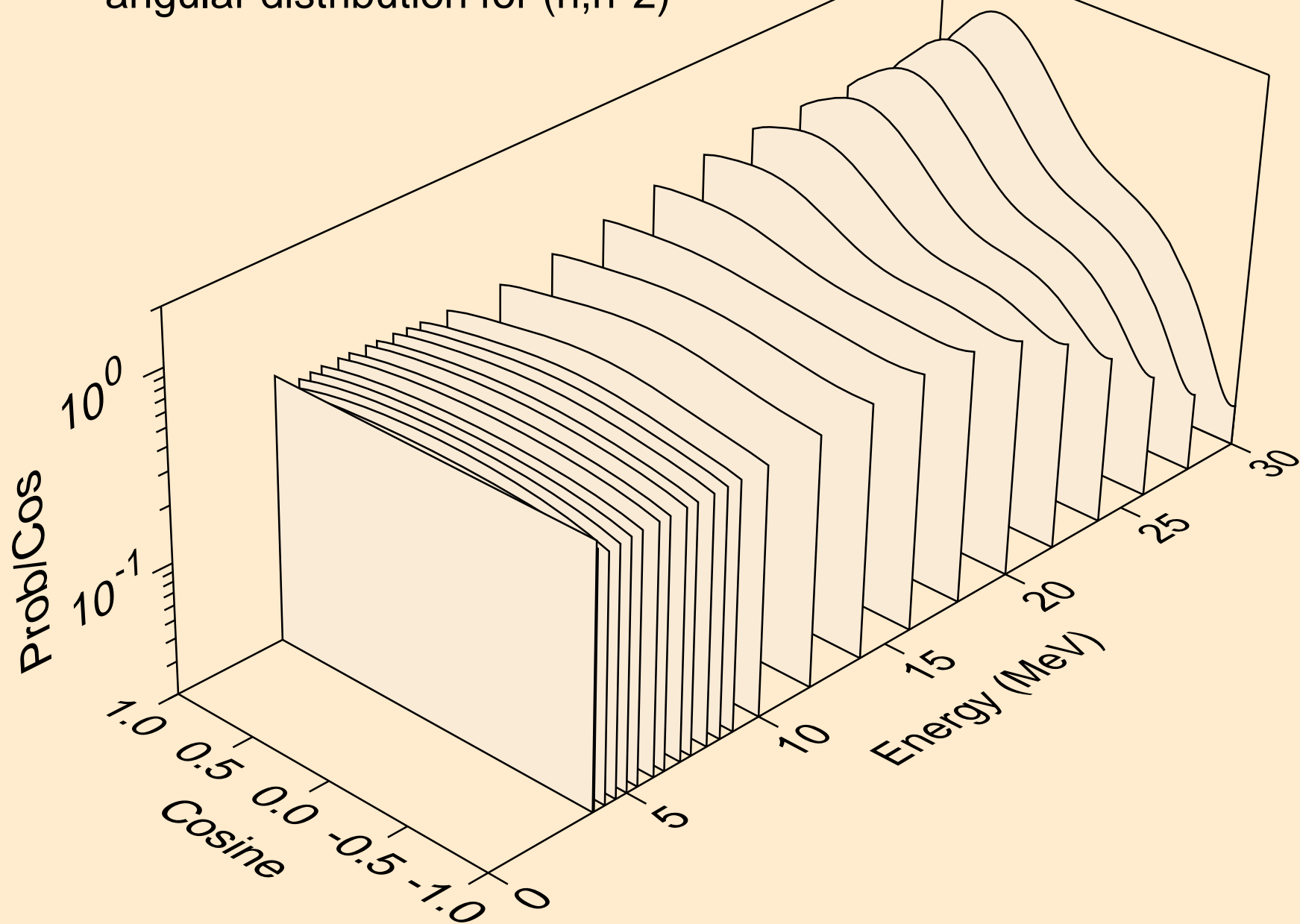


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angular distribution for (n,n\*1)

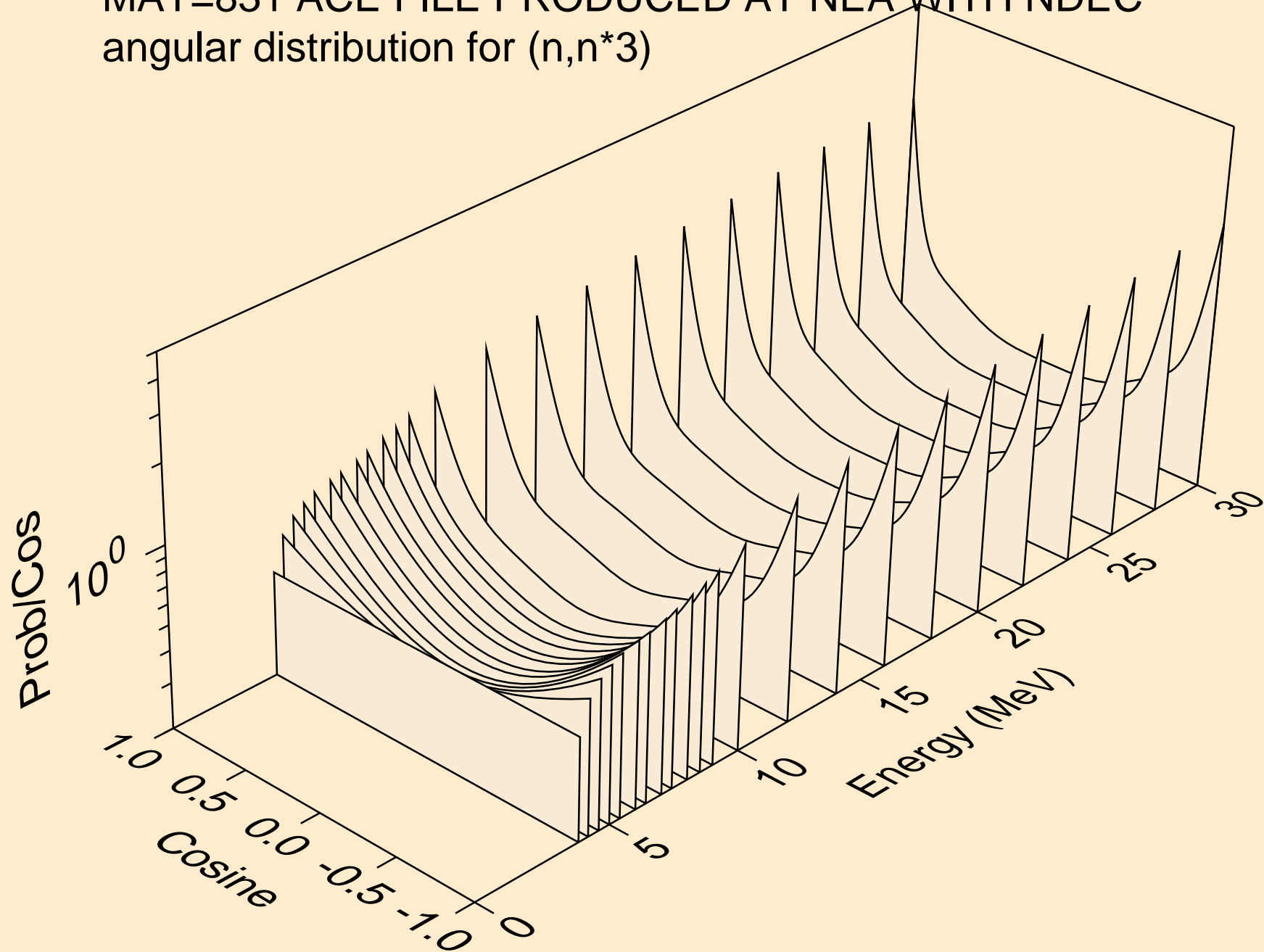




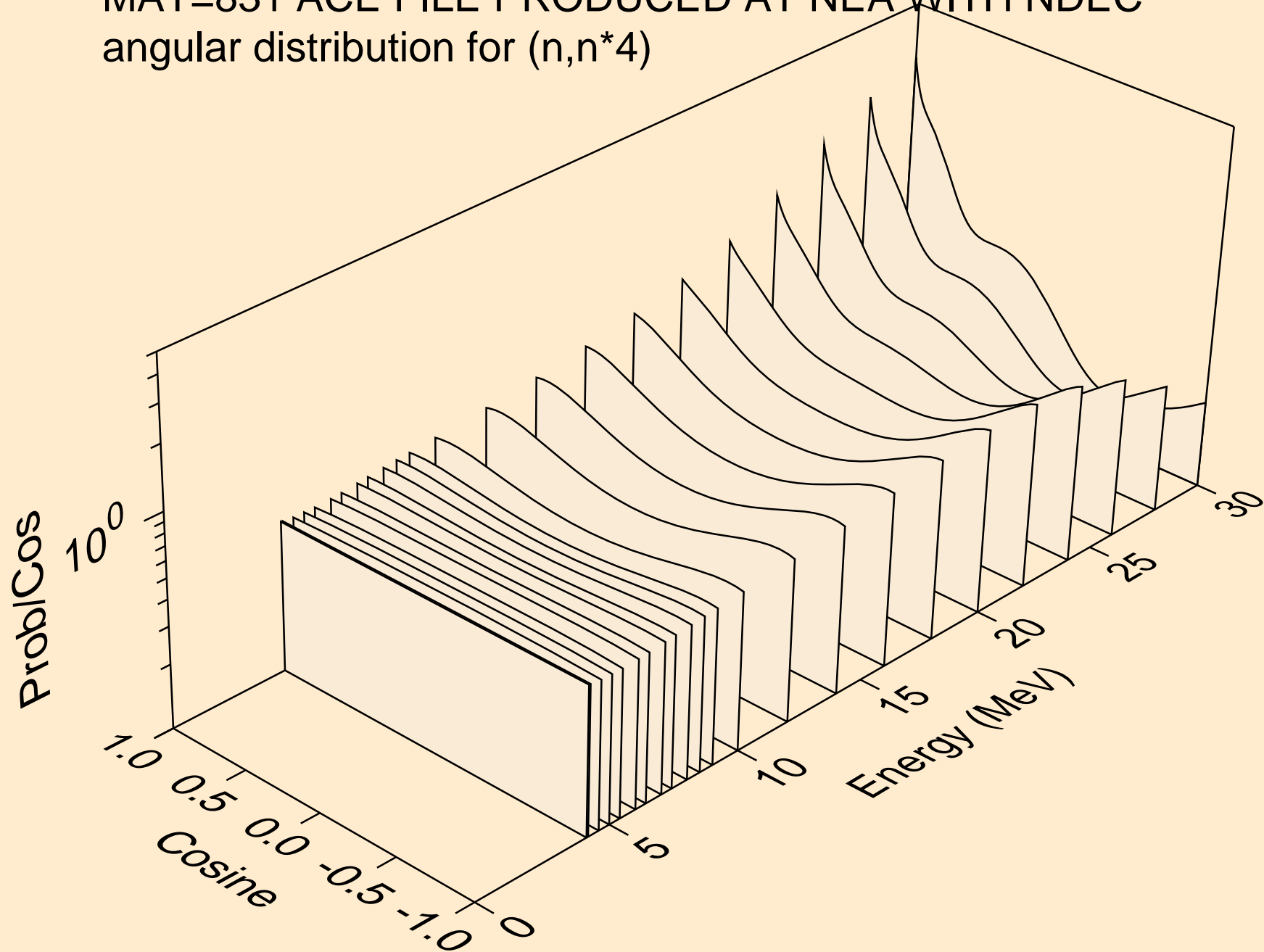
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angular distribution for (n,n\*2)



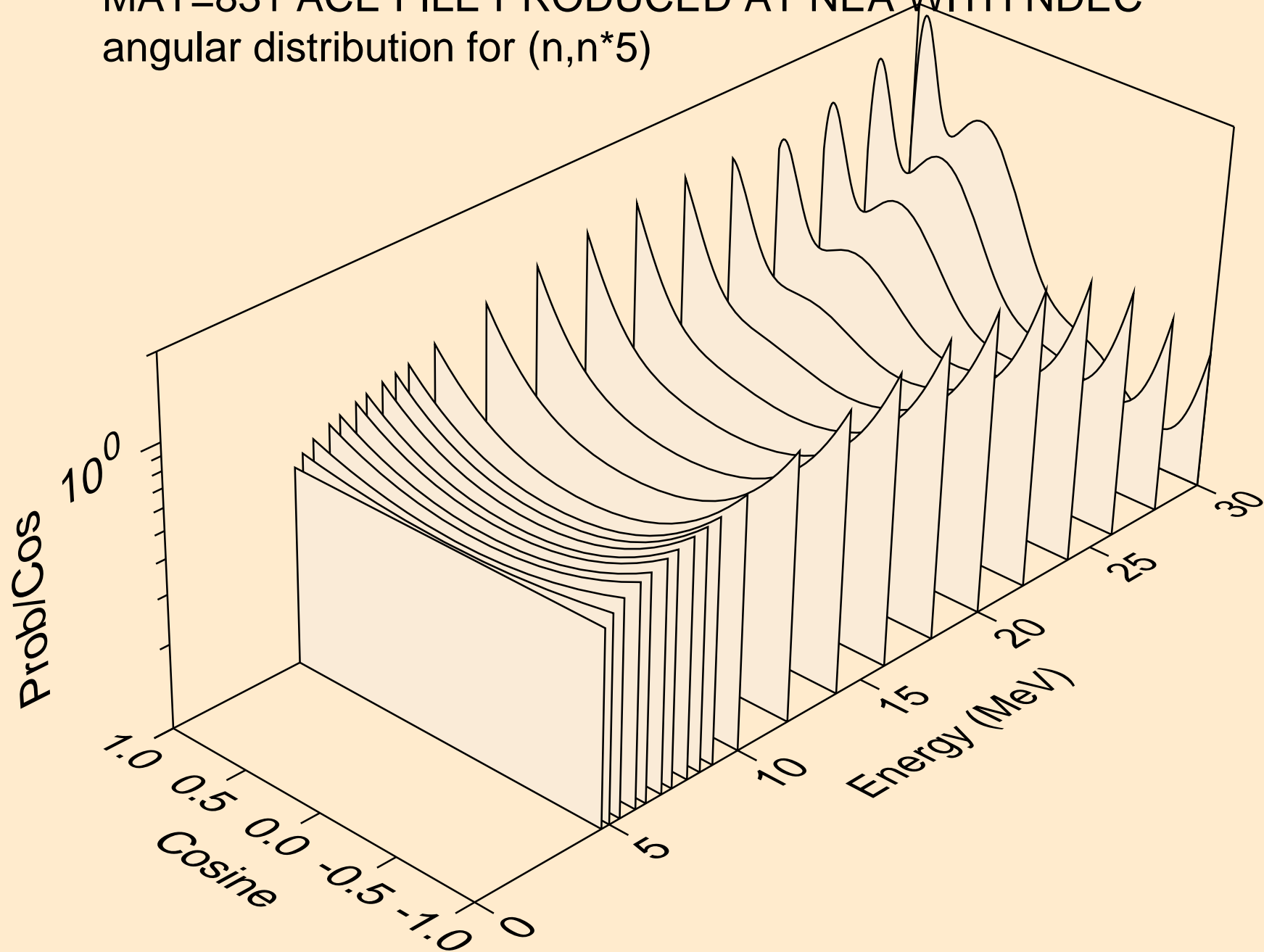
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angular distribution for (n,n\*3)



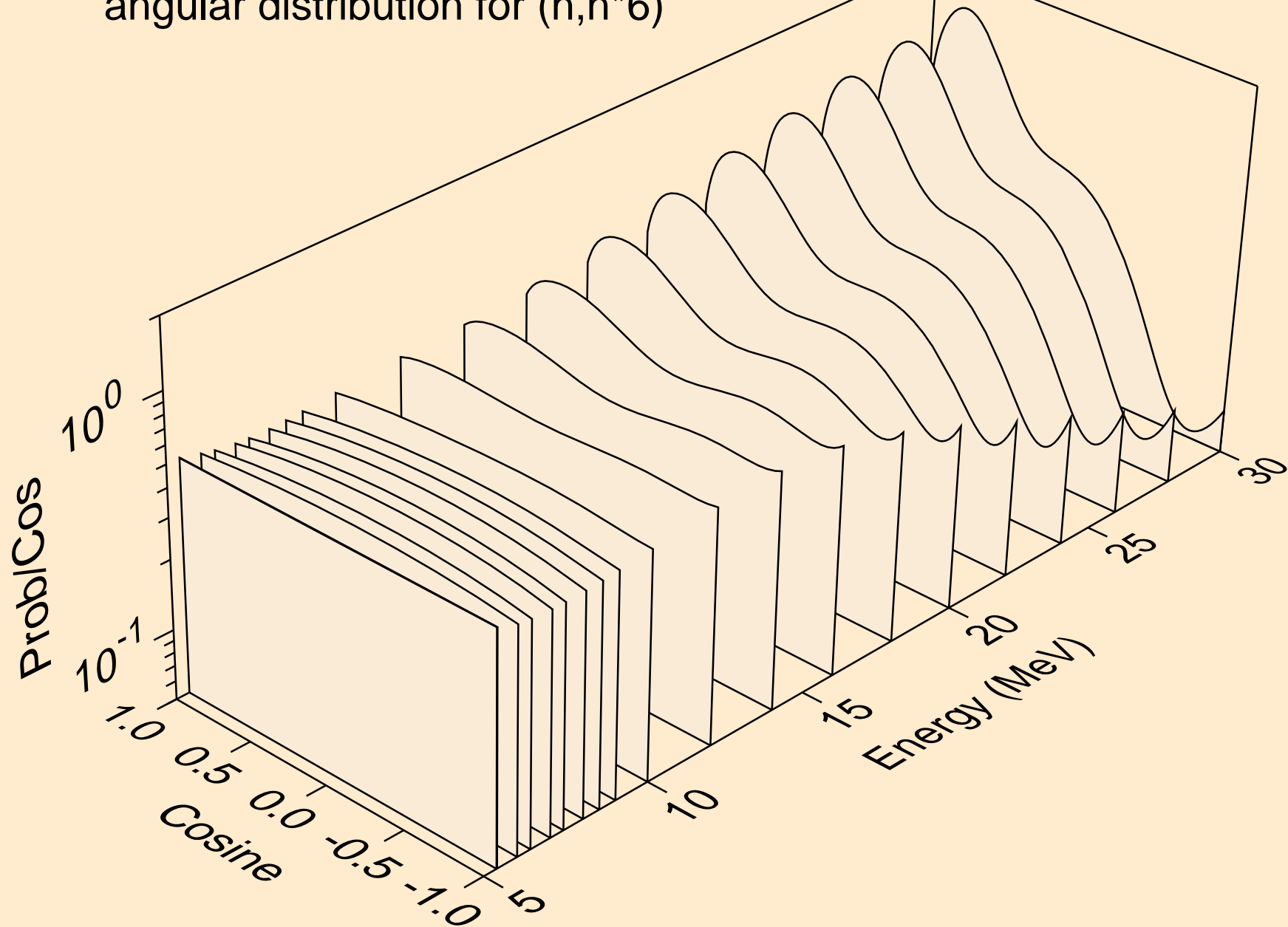
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angular distribution for (n,n\*4)



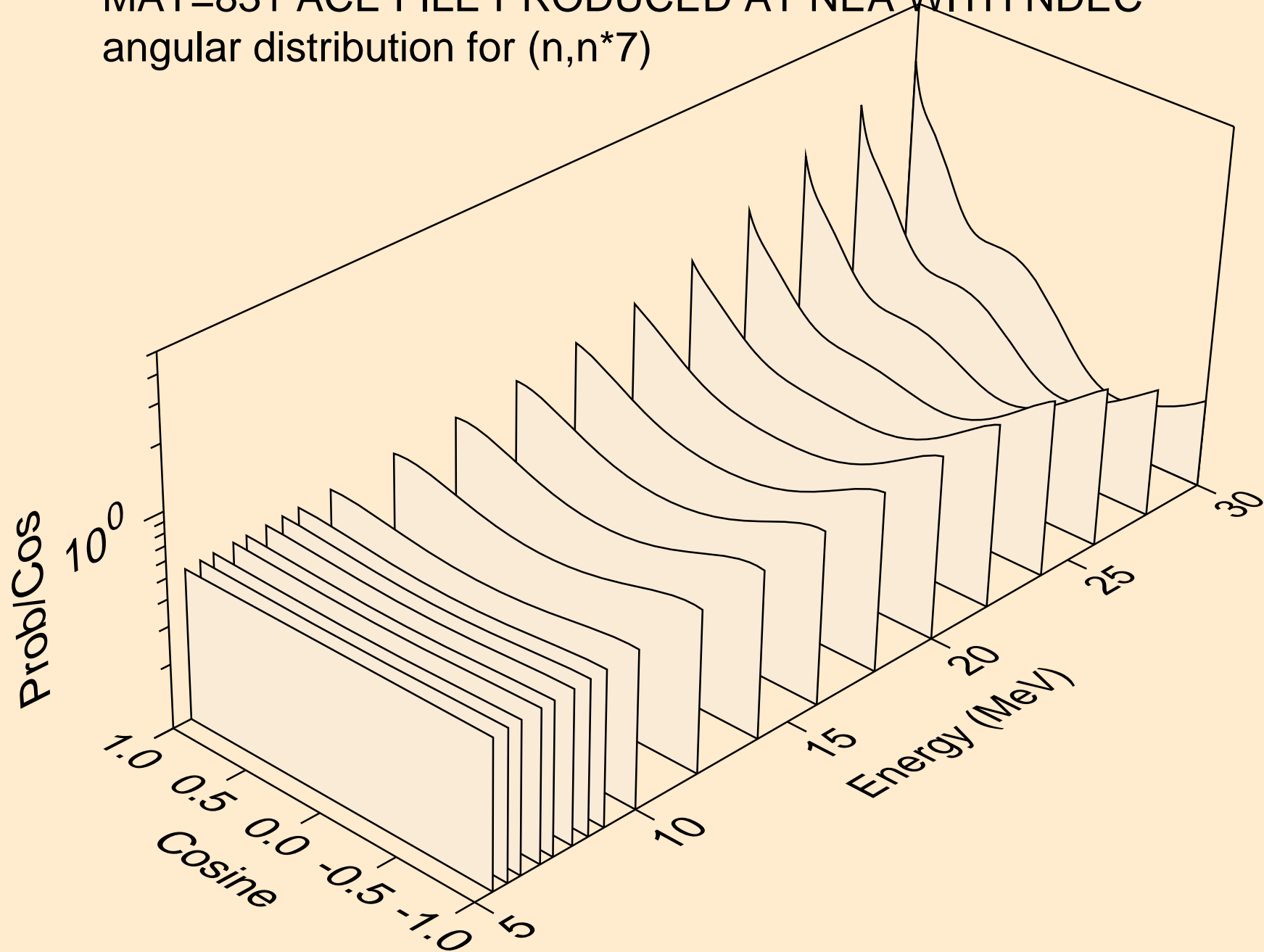
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angular distribution for (n,n\*5)



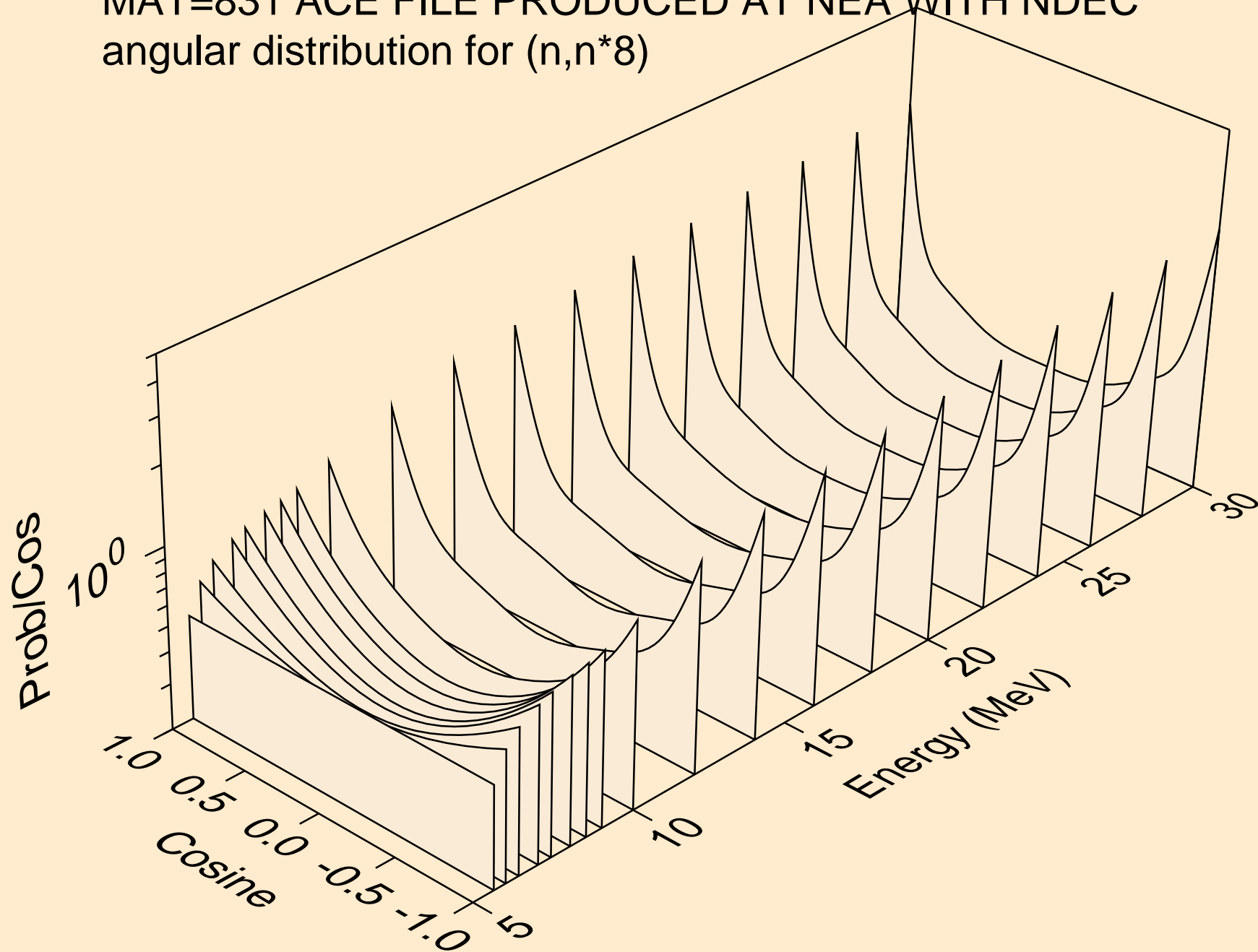
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angular distribution for (n,n\*6)



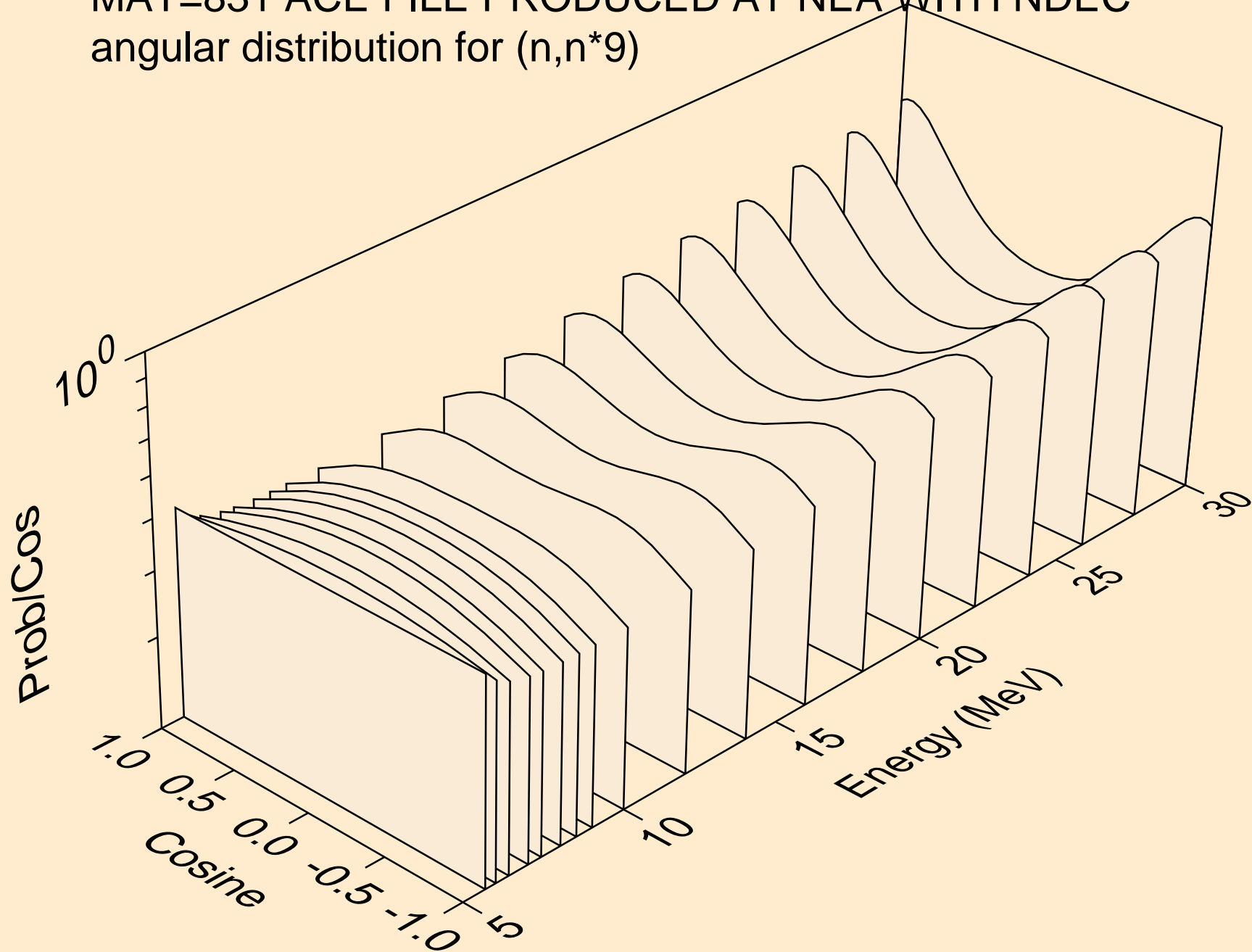
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angular distribution for (n,n\*7)



MAT=831 ACE FILE PRODUCED AT NEA WITH NDEC  
angular distribution for (n,n\*8)

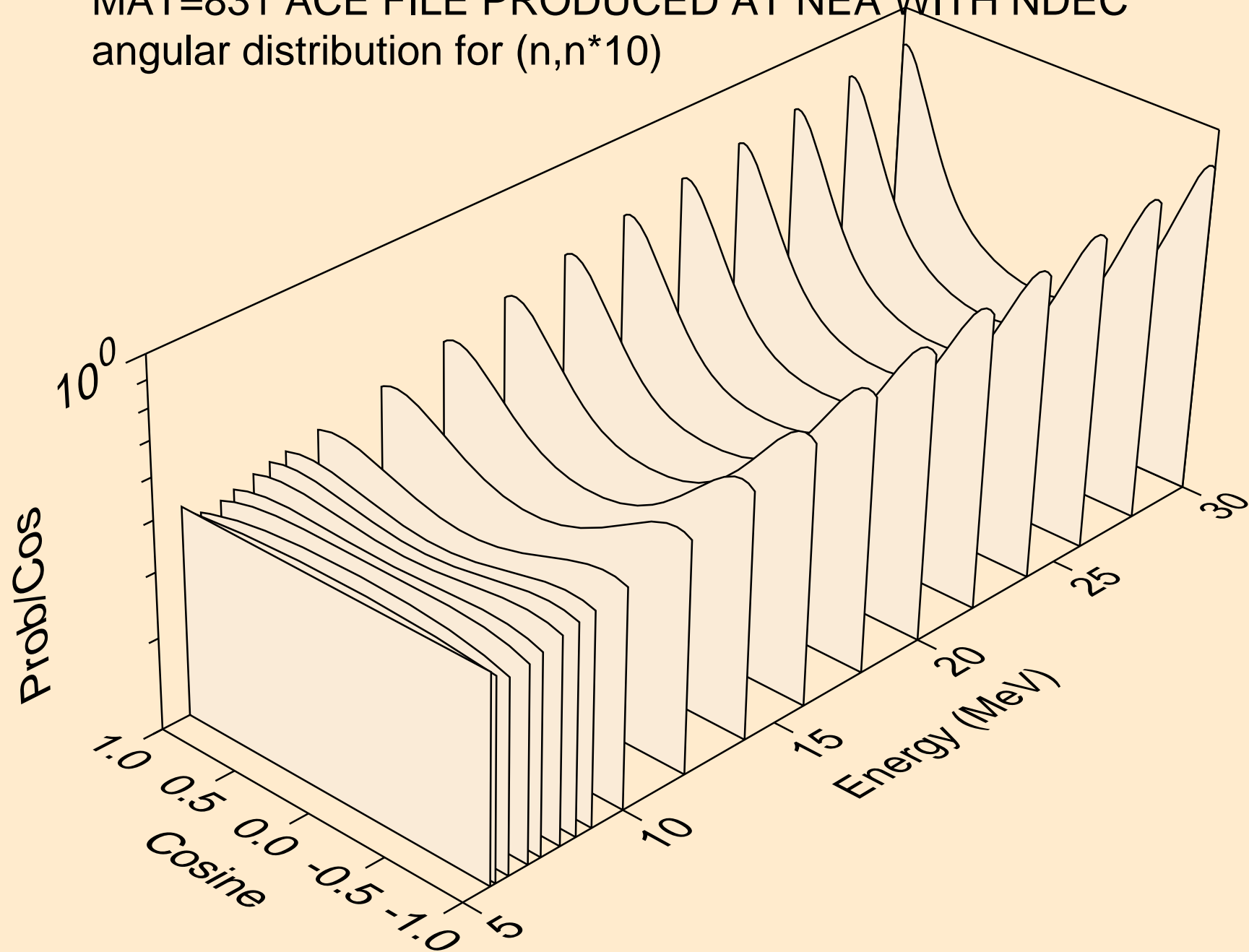


MAT=831 ACE FILE PRODUCED AT NEA WITH NDEC  
angular distribution for (n,n\*9)

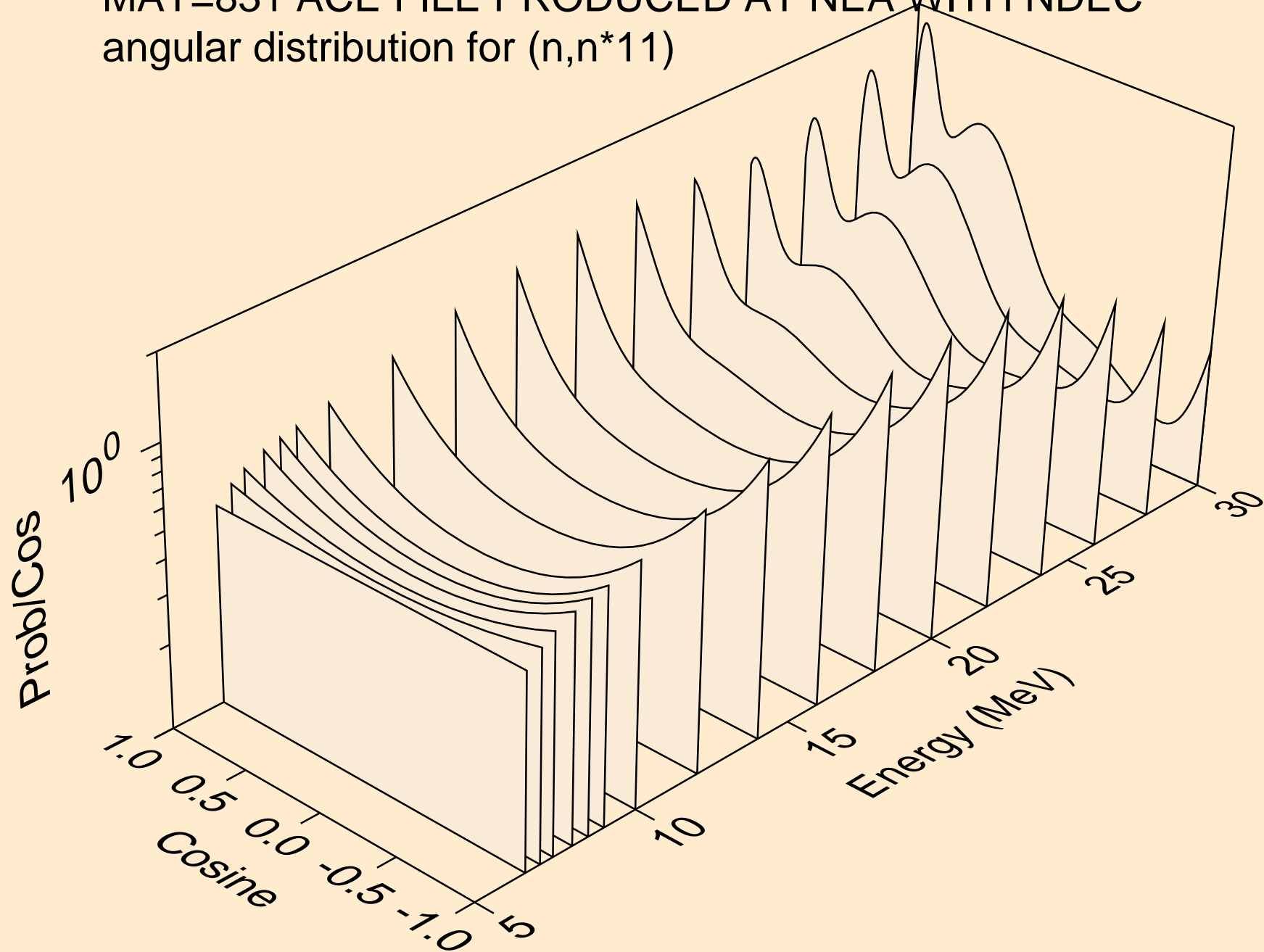




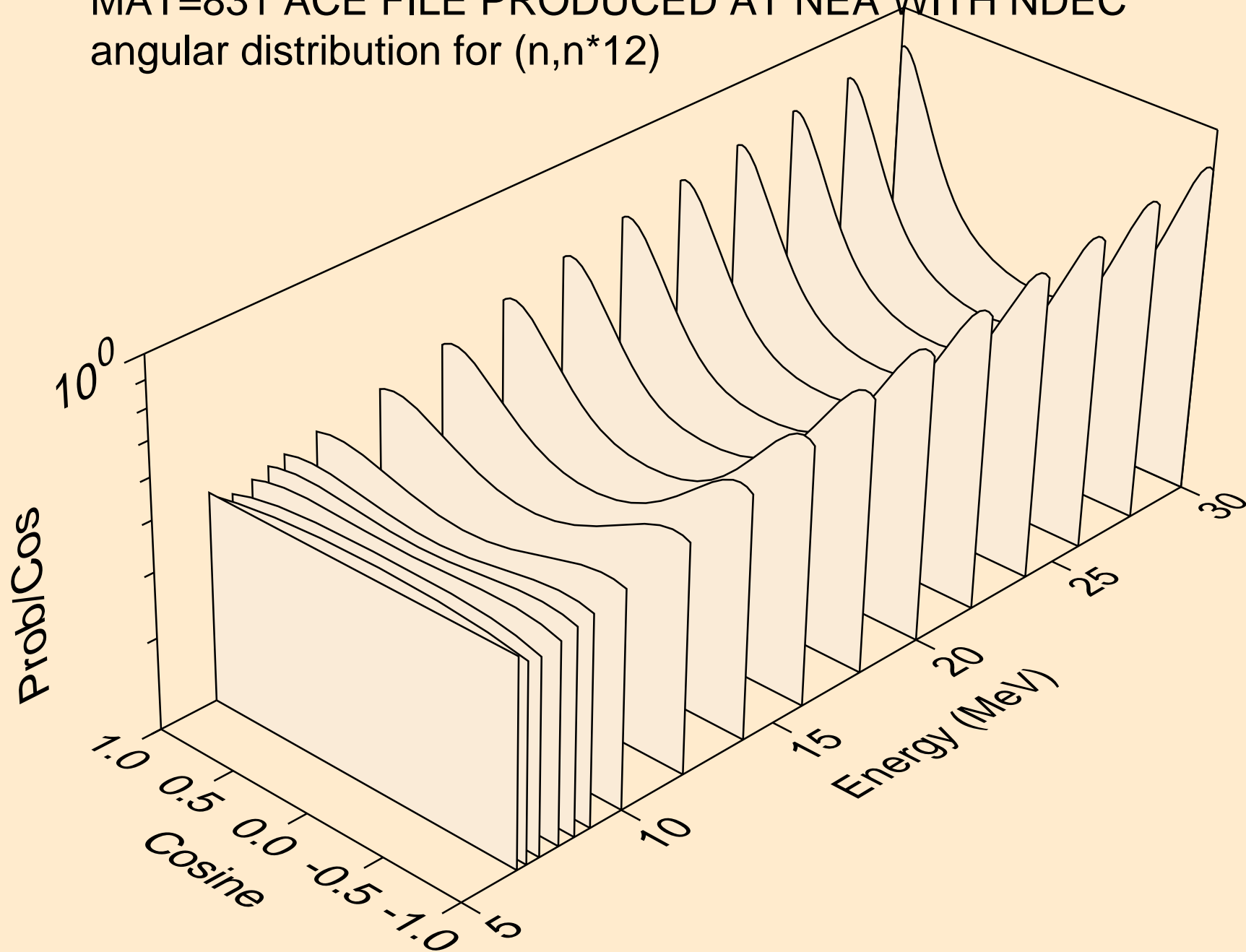
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angular distribution for (n,n\*10)



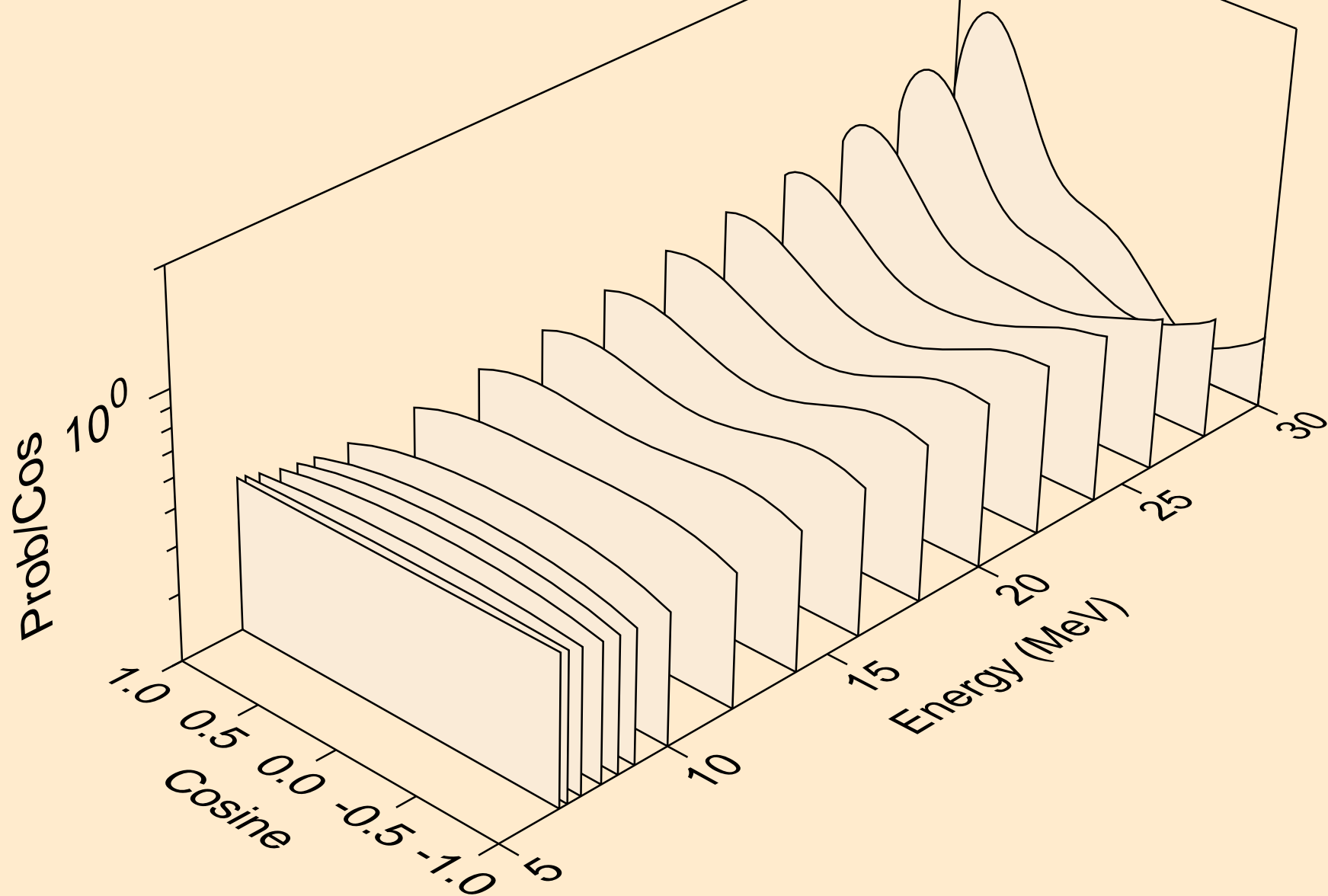
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angular distribution for (n,n\*11)



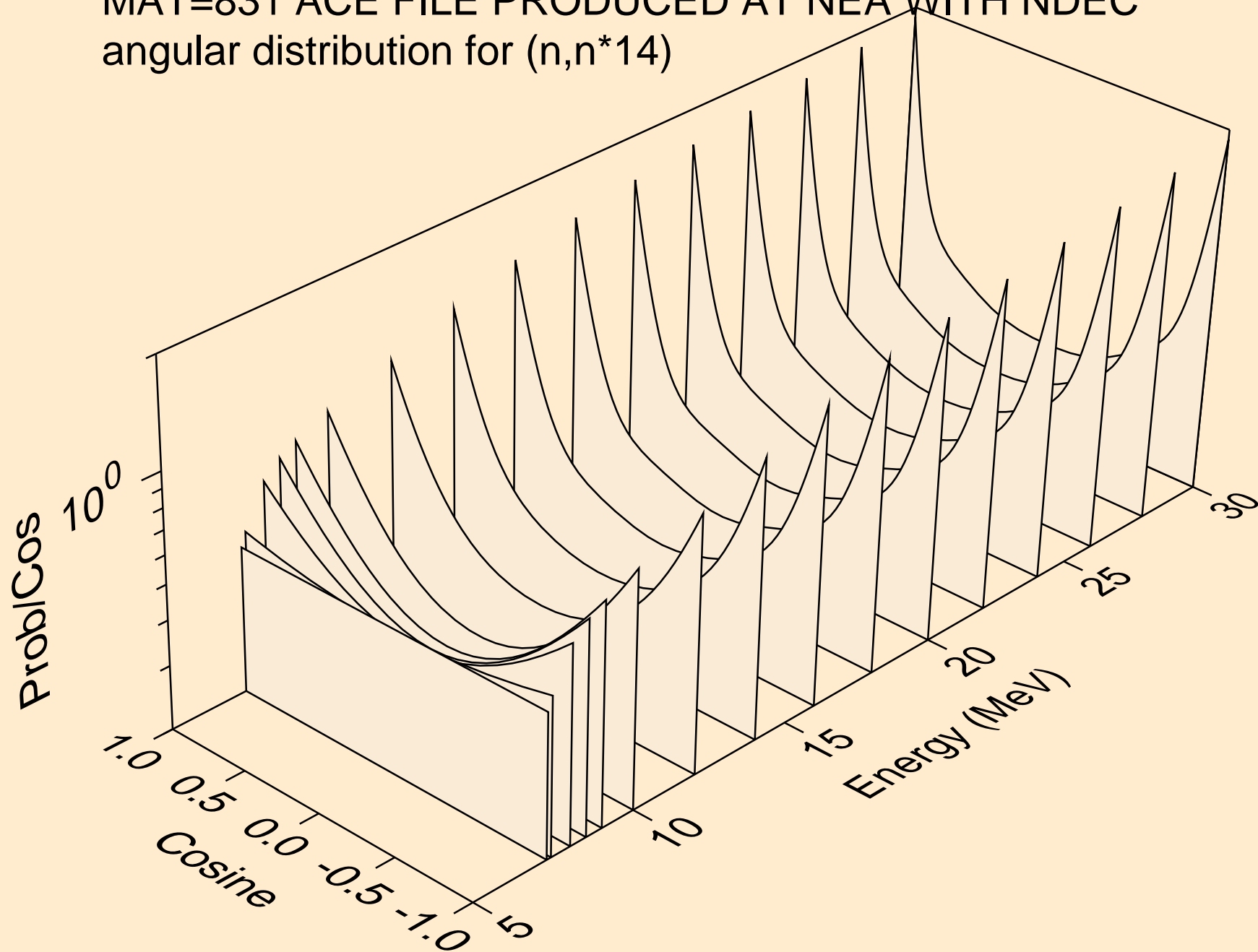
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angular distribution for (n,n\*12)



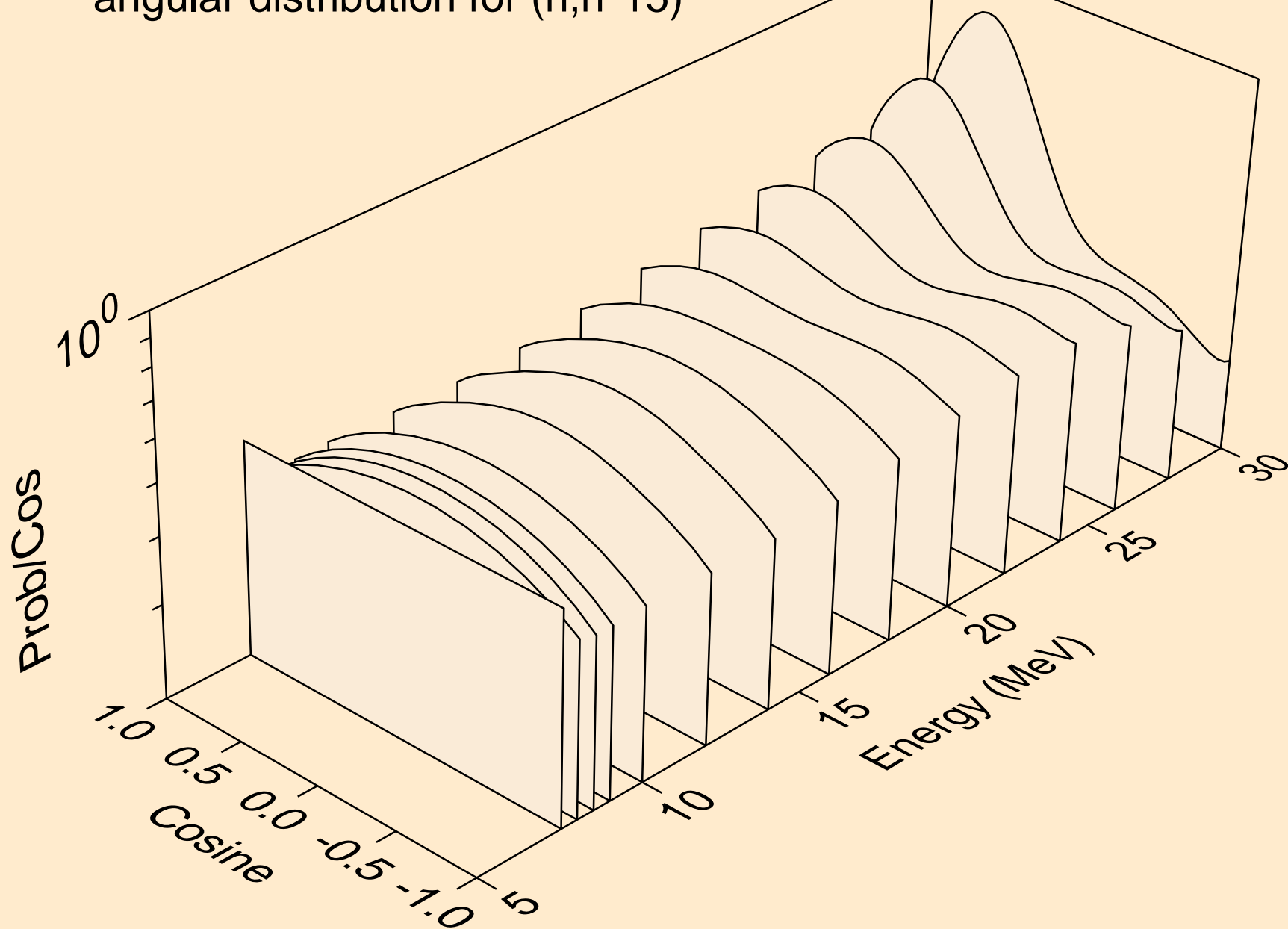
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angular distribution for (n,n\*13)



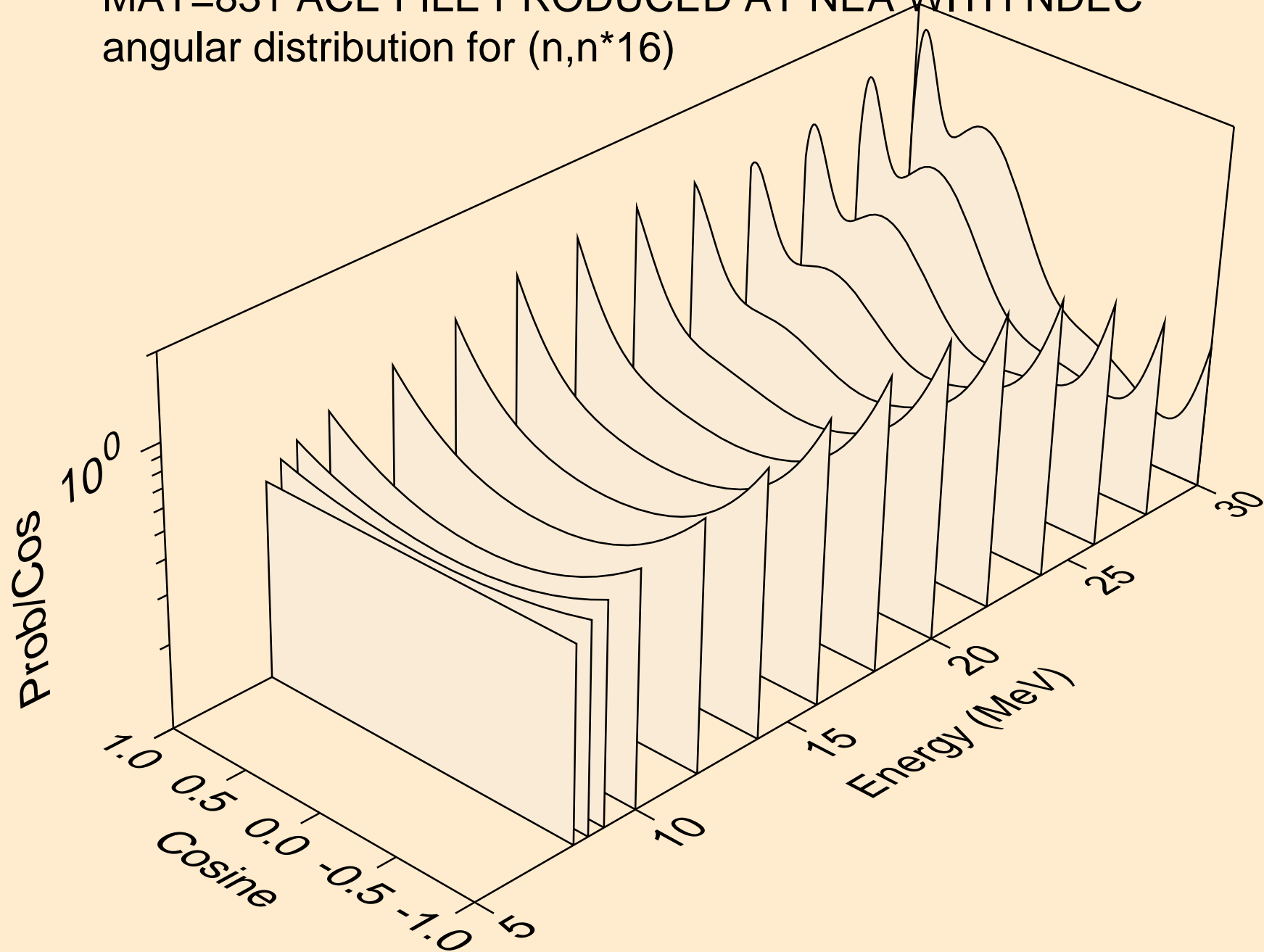
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angular distribution for (n,n\*14)



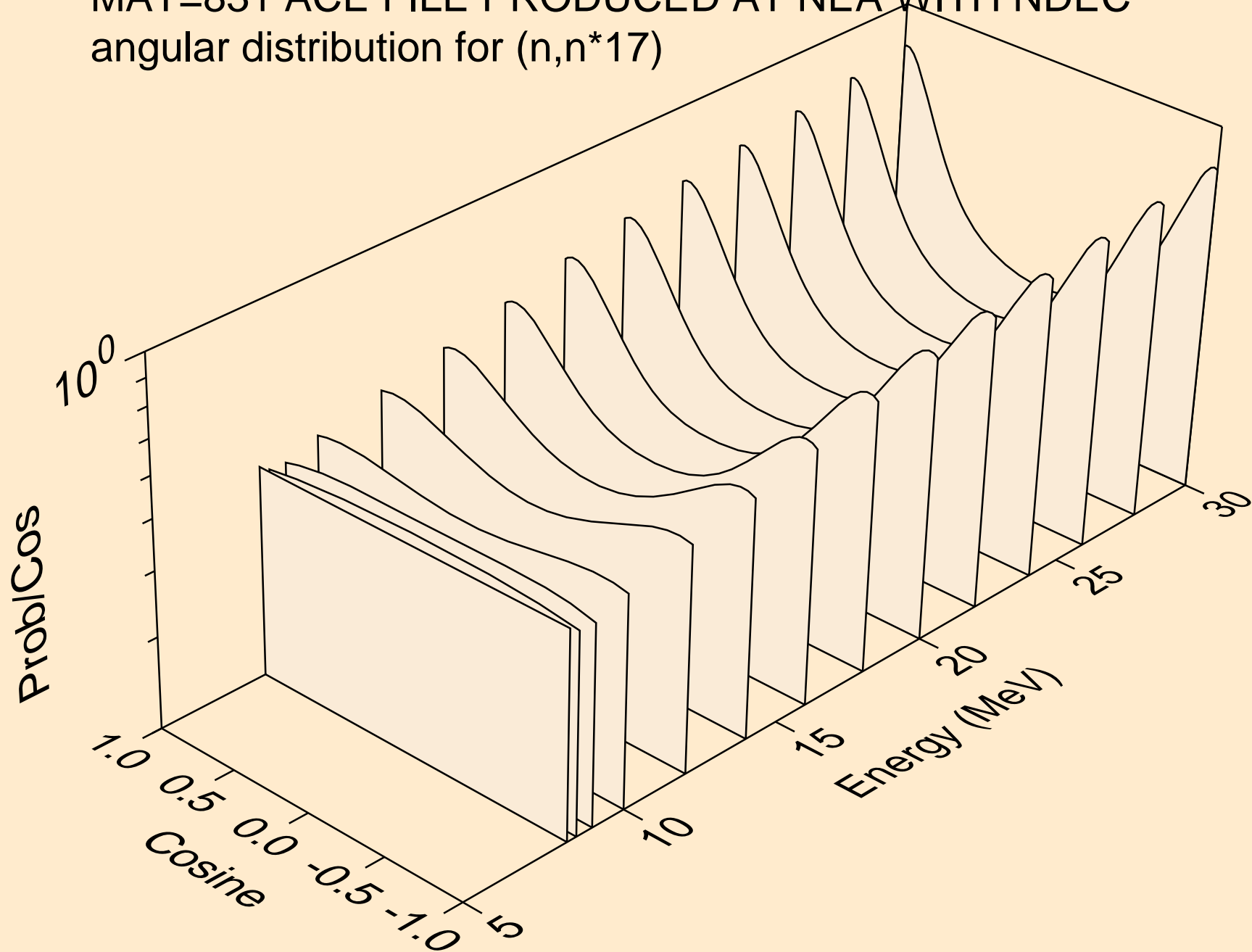
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angular distribution for (n,n\*15)



MAT=831 ACE FILE PRODUCED AT NEA WITH NDEC  
angular distribution for (n,n\*16)

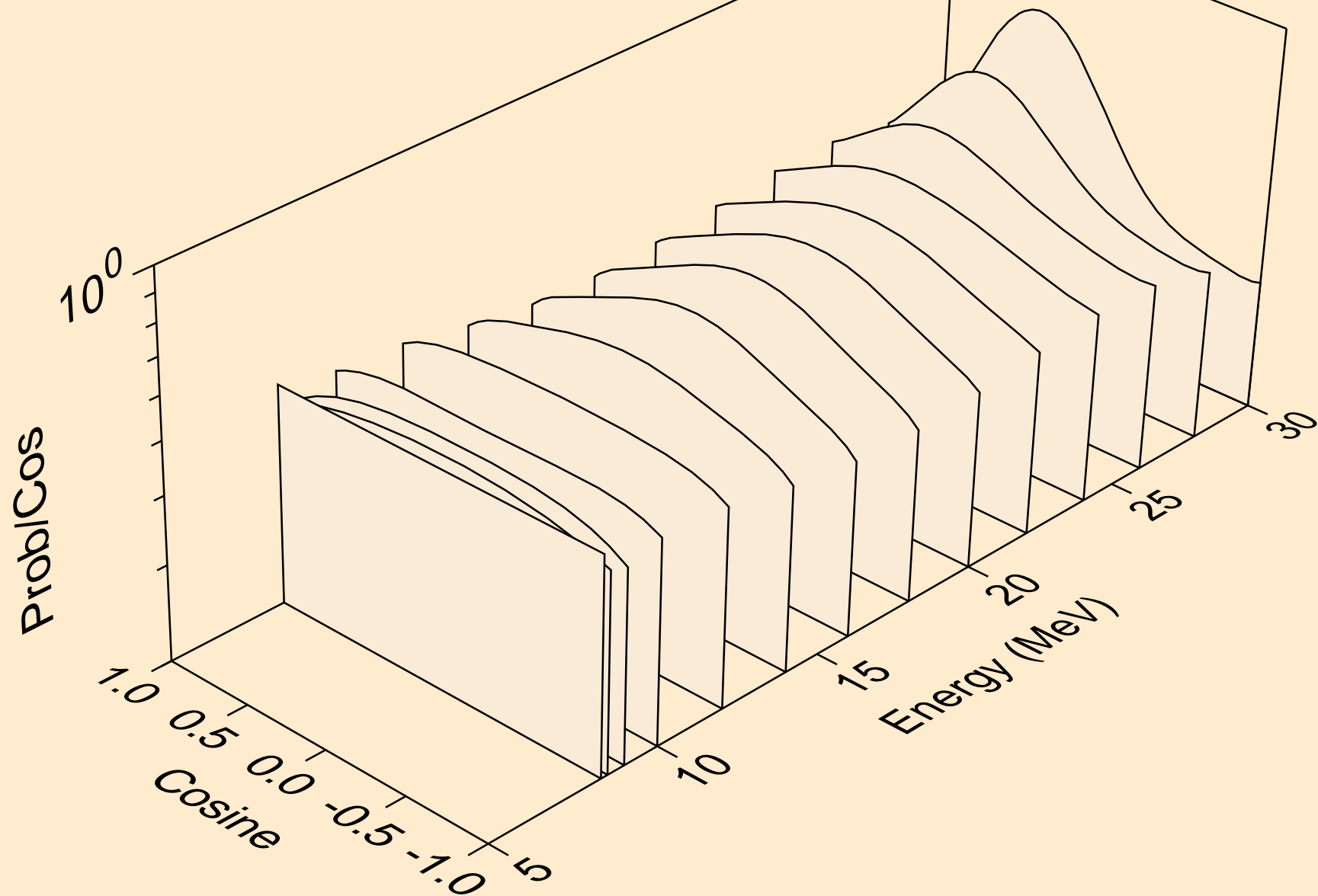


MAT=831 ACE FILE PRODUCED AT NEA WITH NDEC  
angular distribution for (n,n\*17)

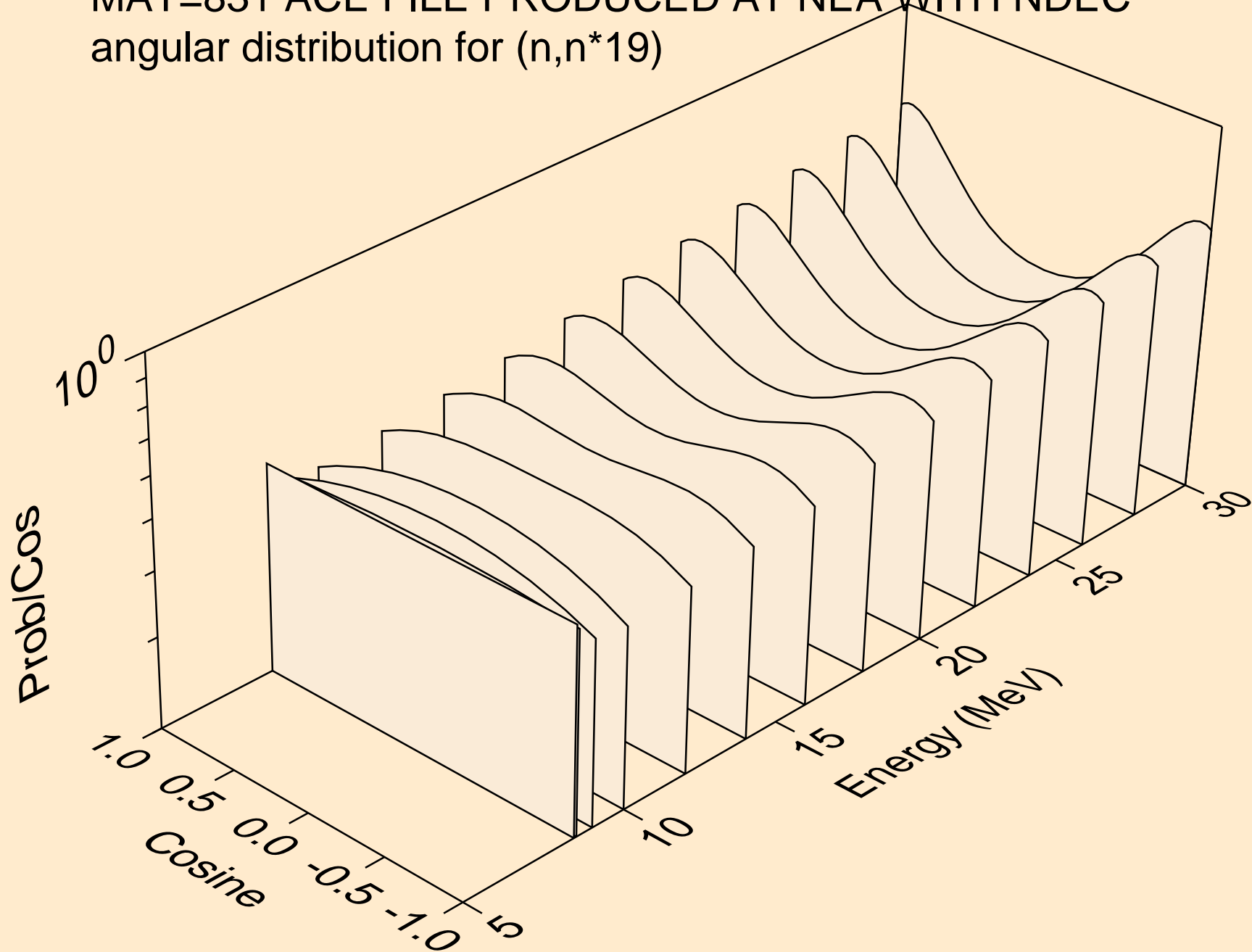




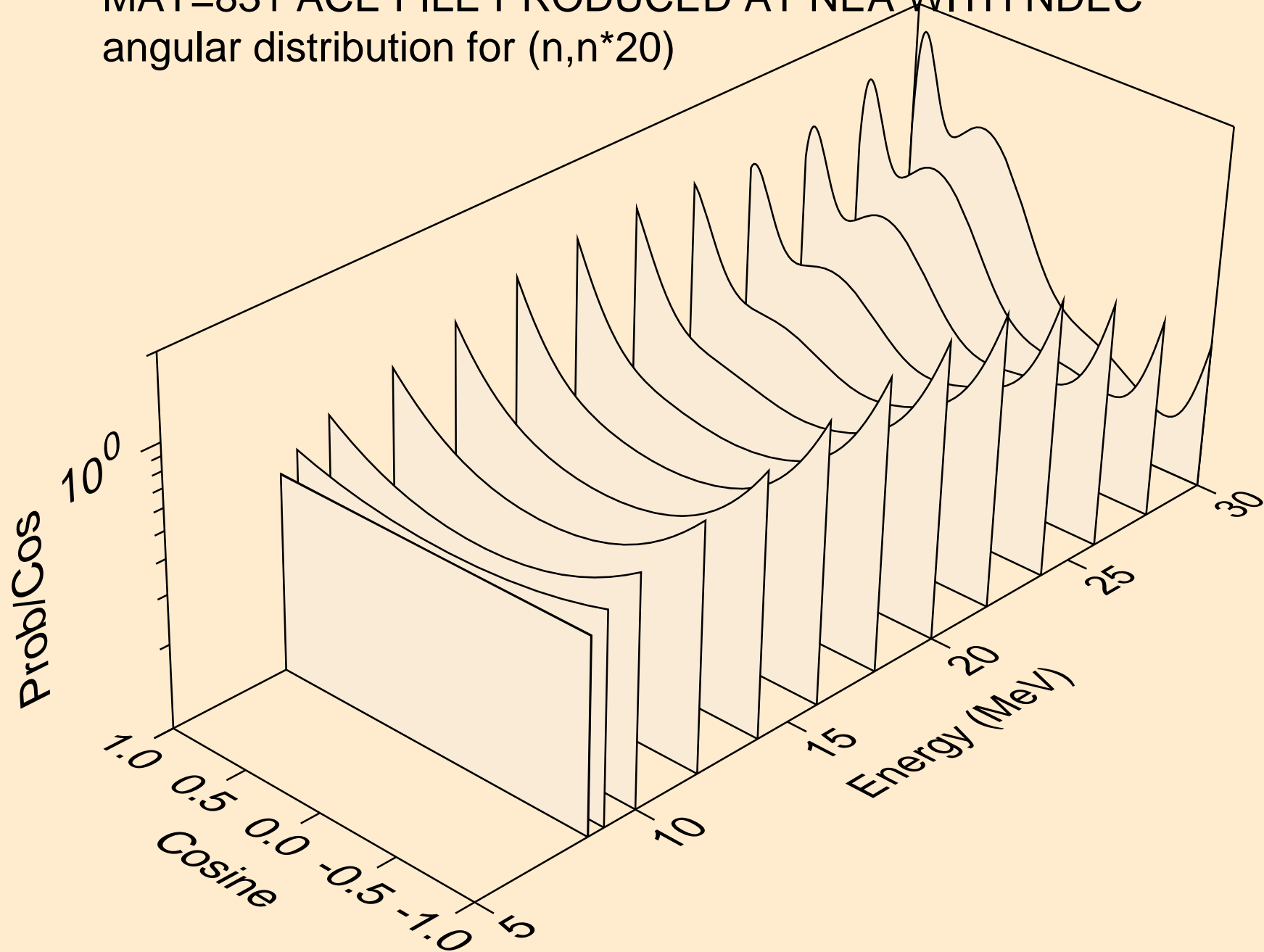
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angular distribution for (n,n\*18)



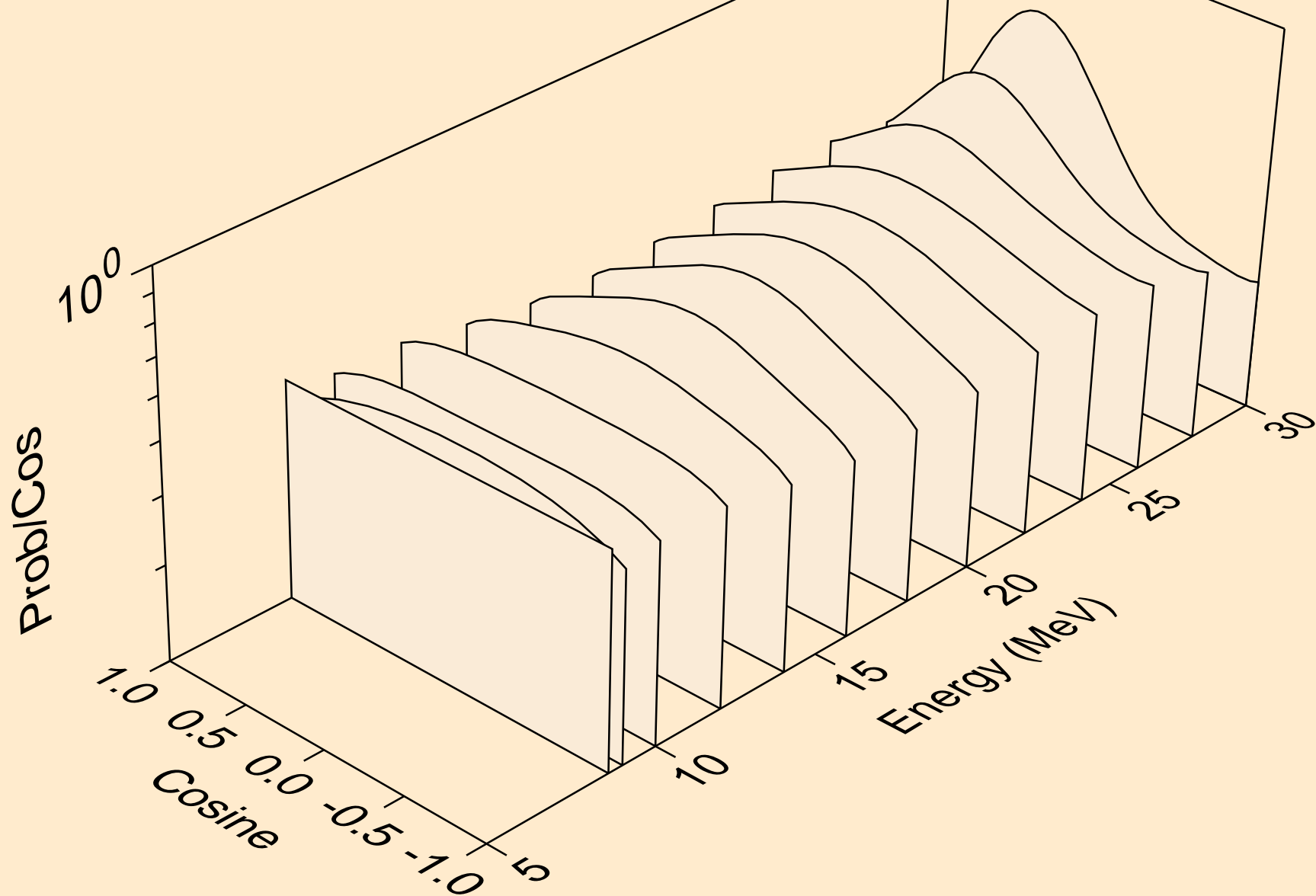
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angular distribution for (n,n\*19)



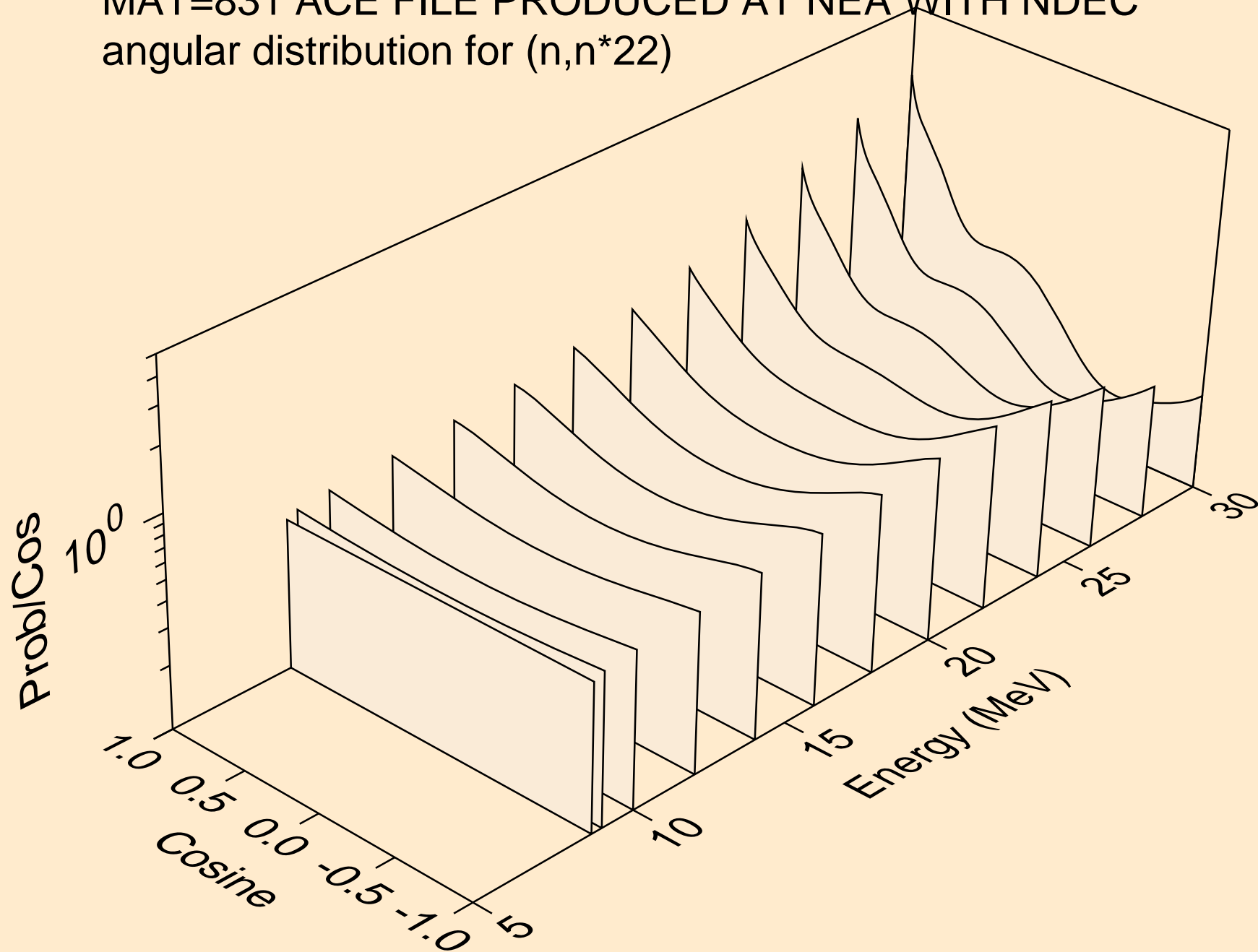
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angular distribution for (n,n\*20)



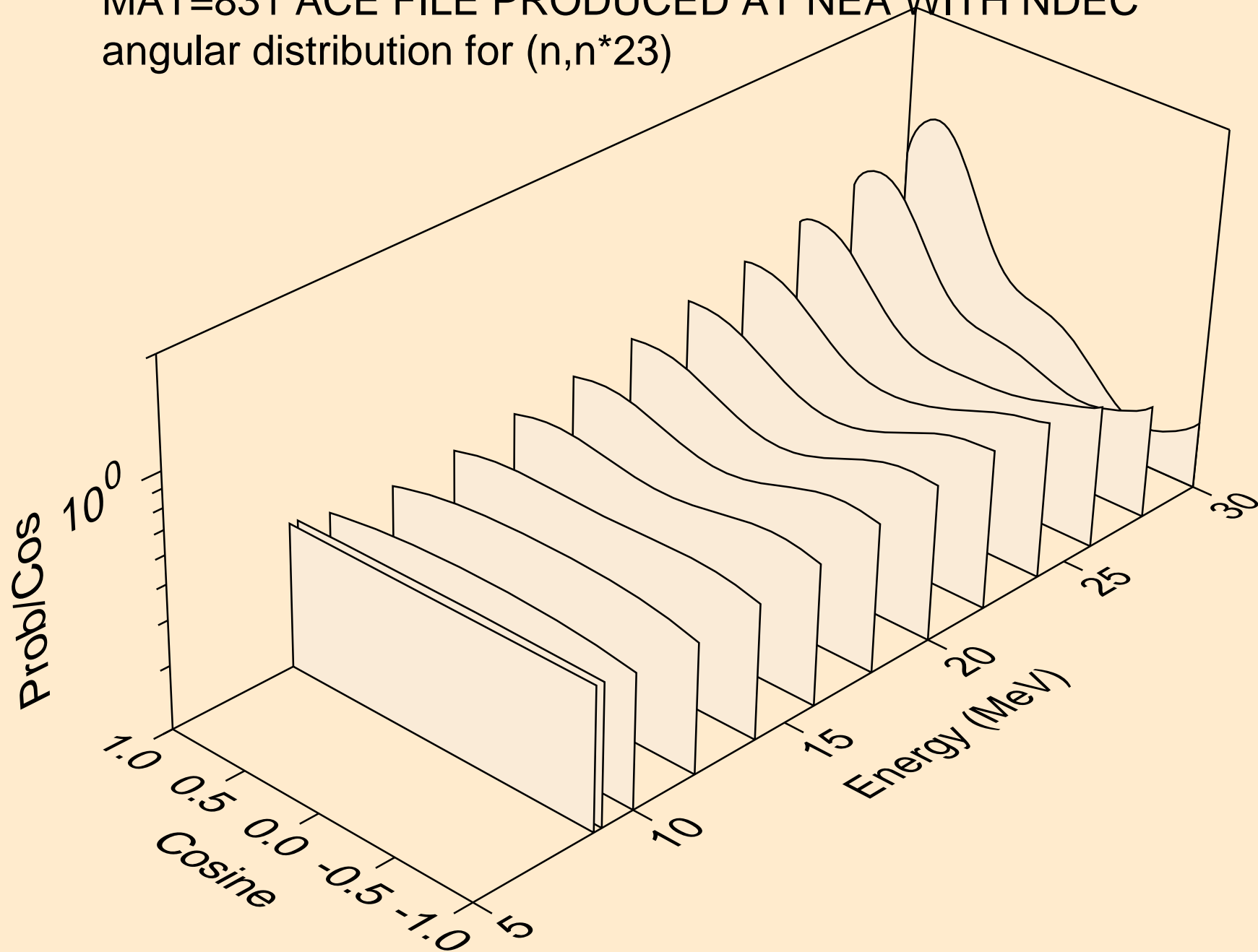
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angular distribution for (n,n\*21)



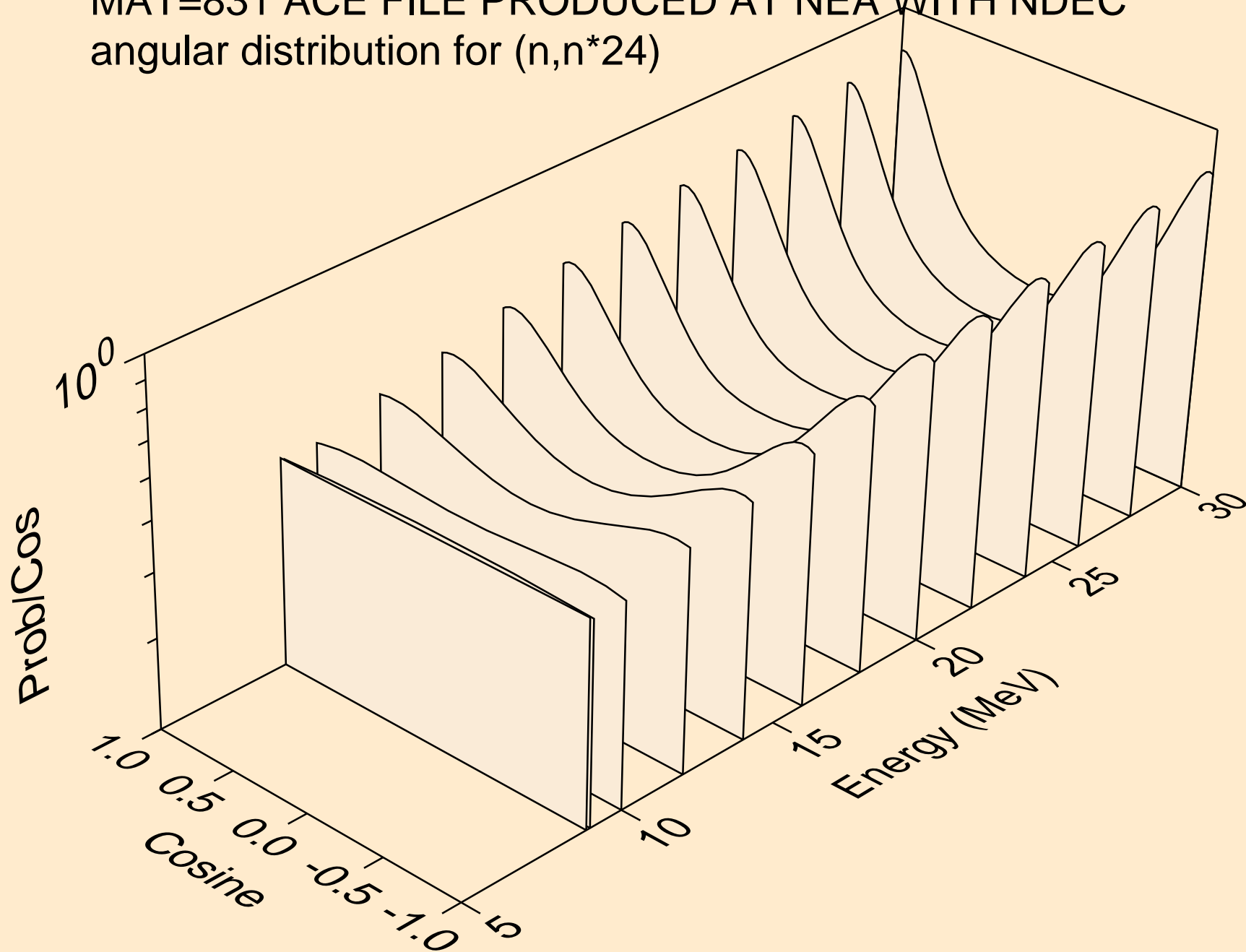
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angular distribution for (n,n\*22)



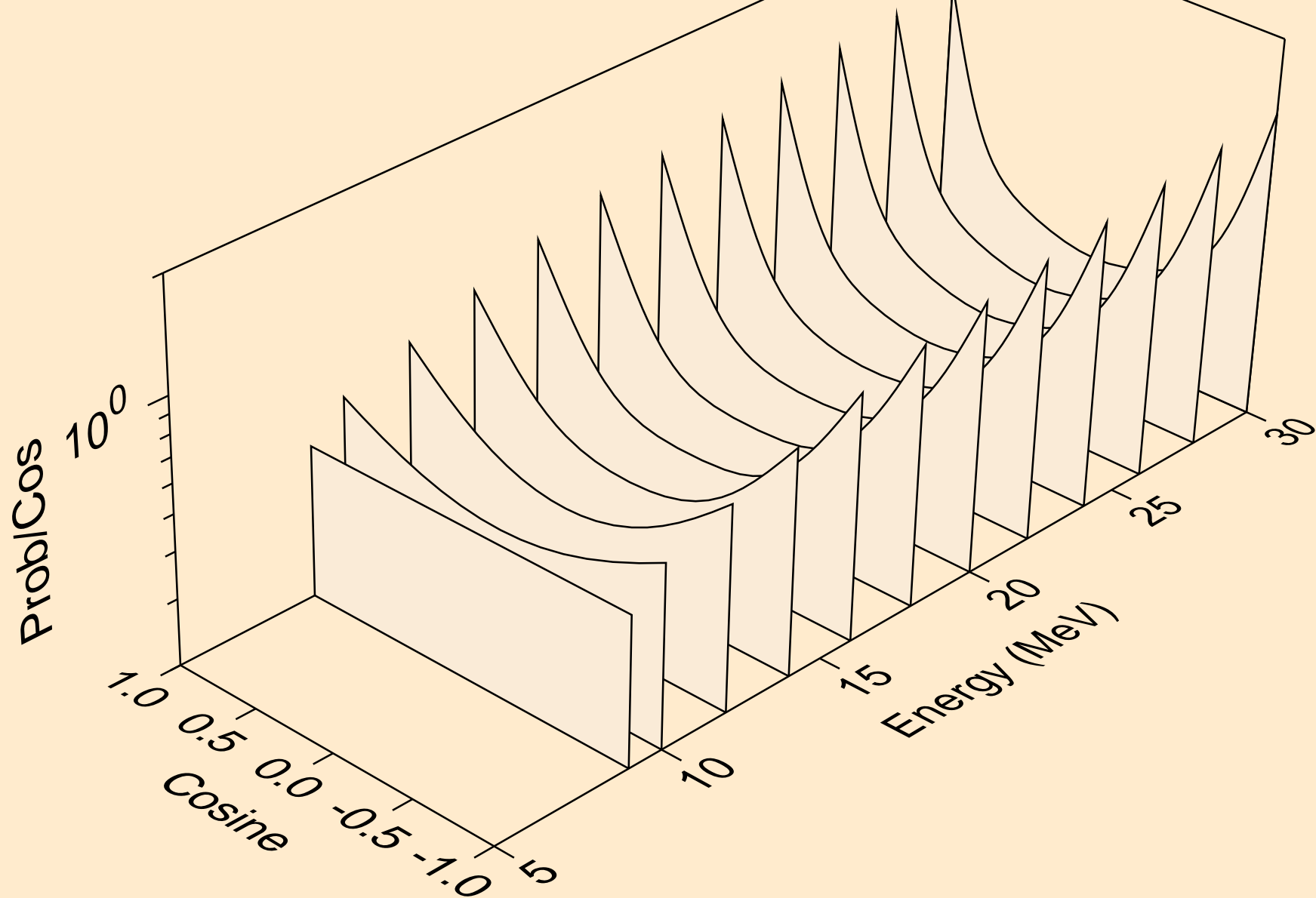
MAT=831 ACE FILE PRODUCED AT NEA WITH NDEC  
angular distribution for (n,n\*23)



MAT=831 ACE FILE PRODUCED AT NEA WITH NDEC  
angular distribution for (n,n\*24)

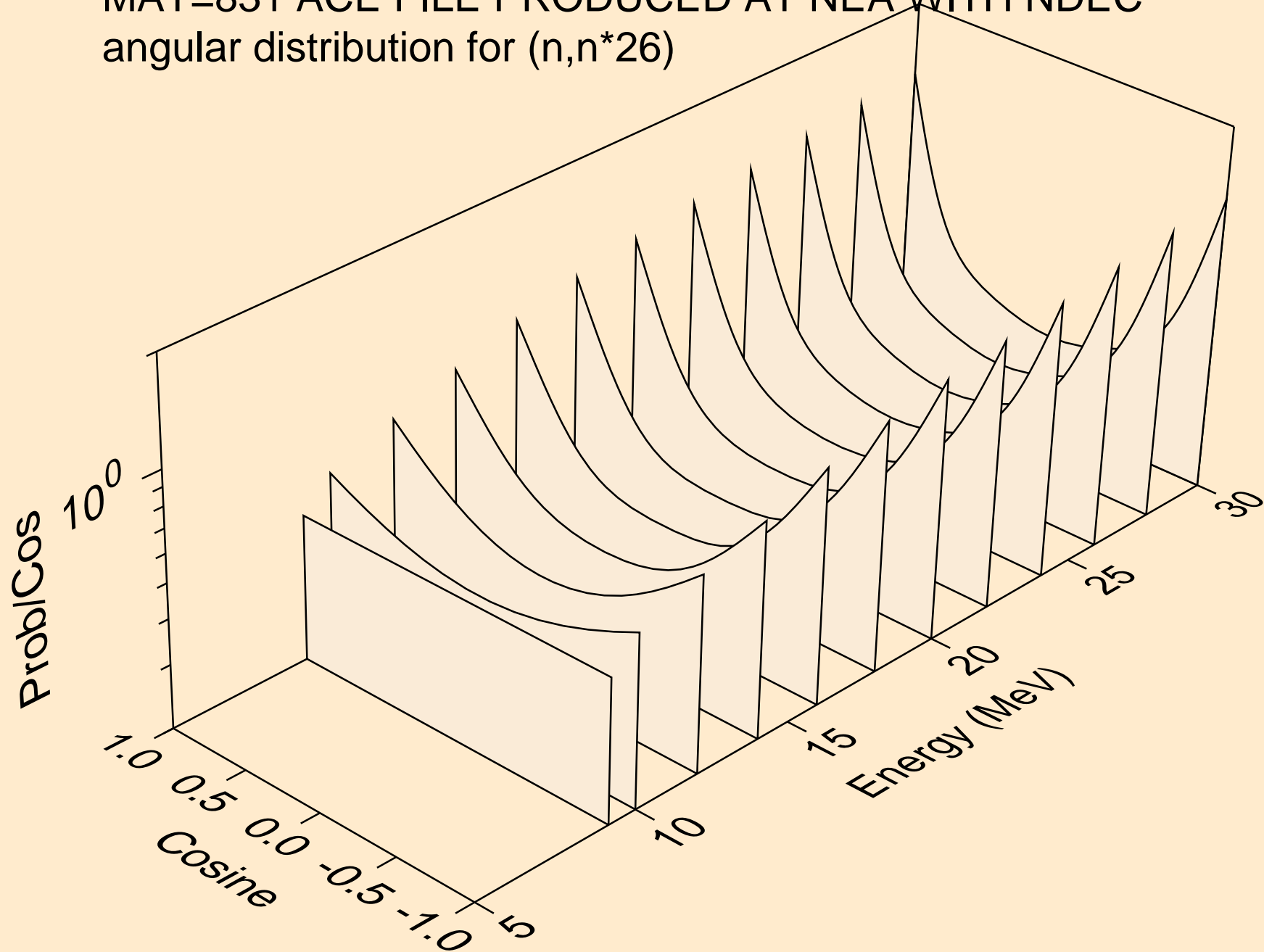


MAT=831 ACE FILE PRODUCED AT NEA WITH NDEC  
angular distribution for (n,n\*25)

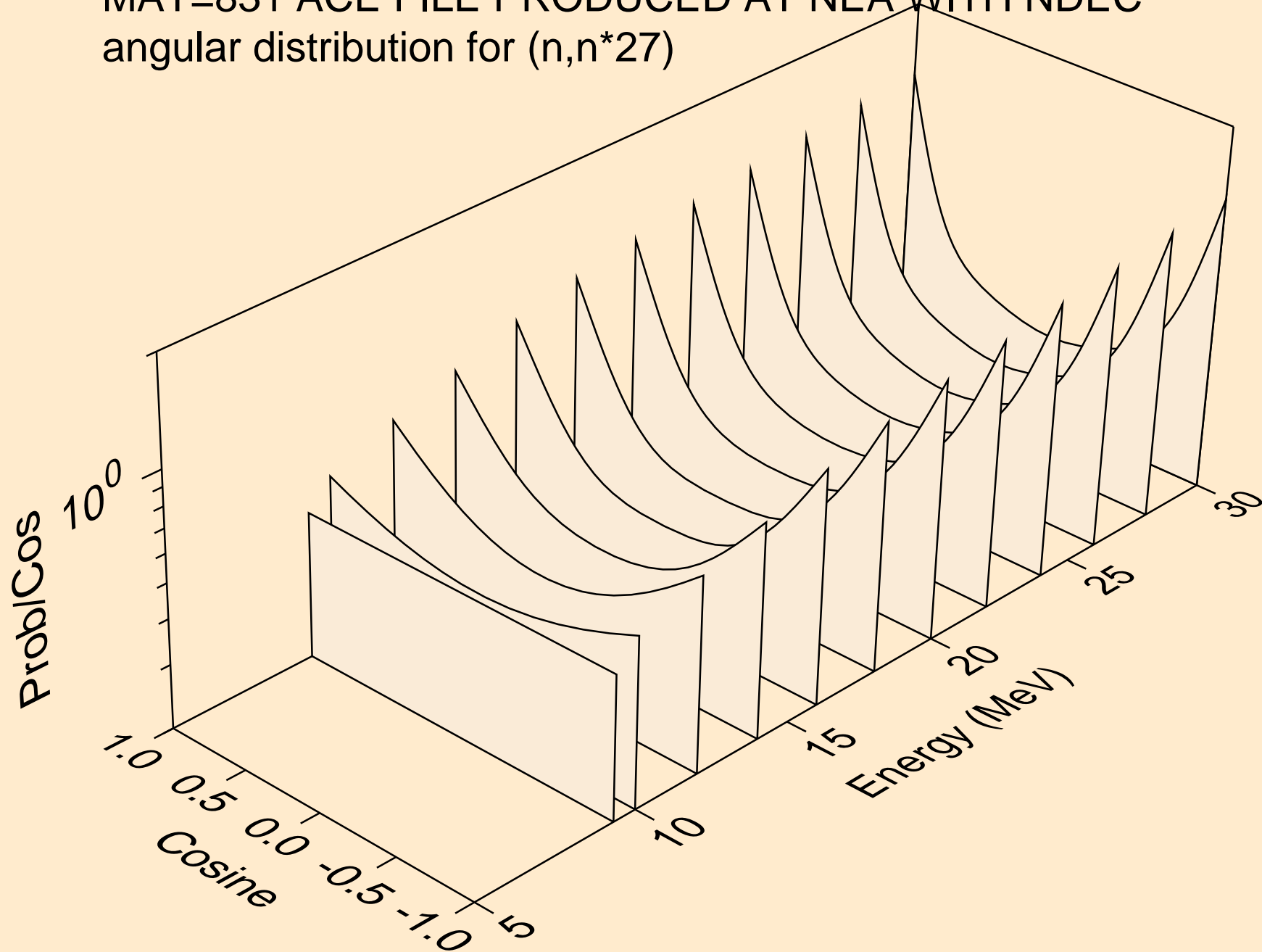




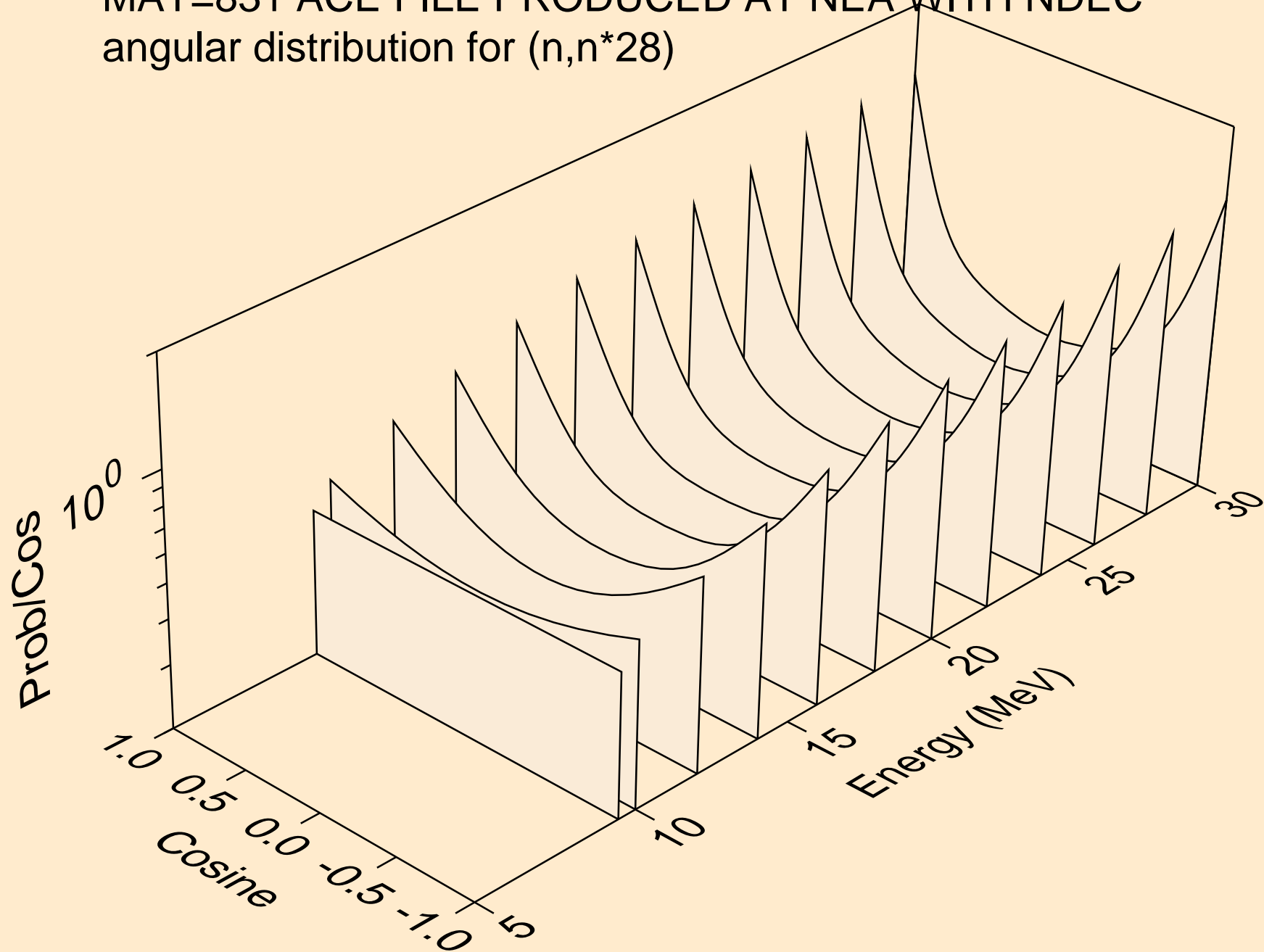
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angular distribution for (n,n\*26)



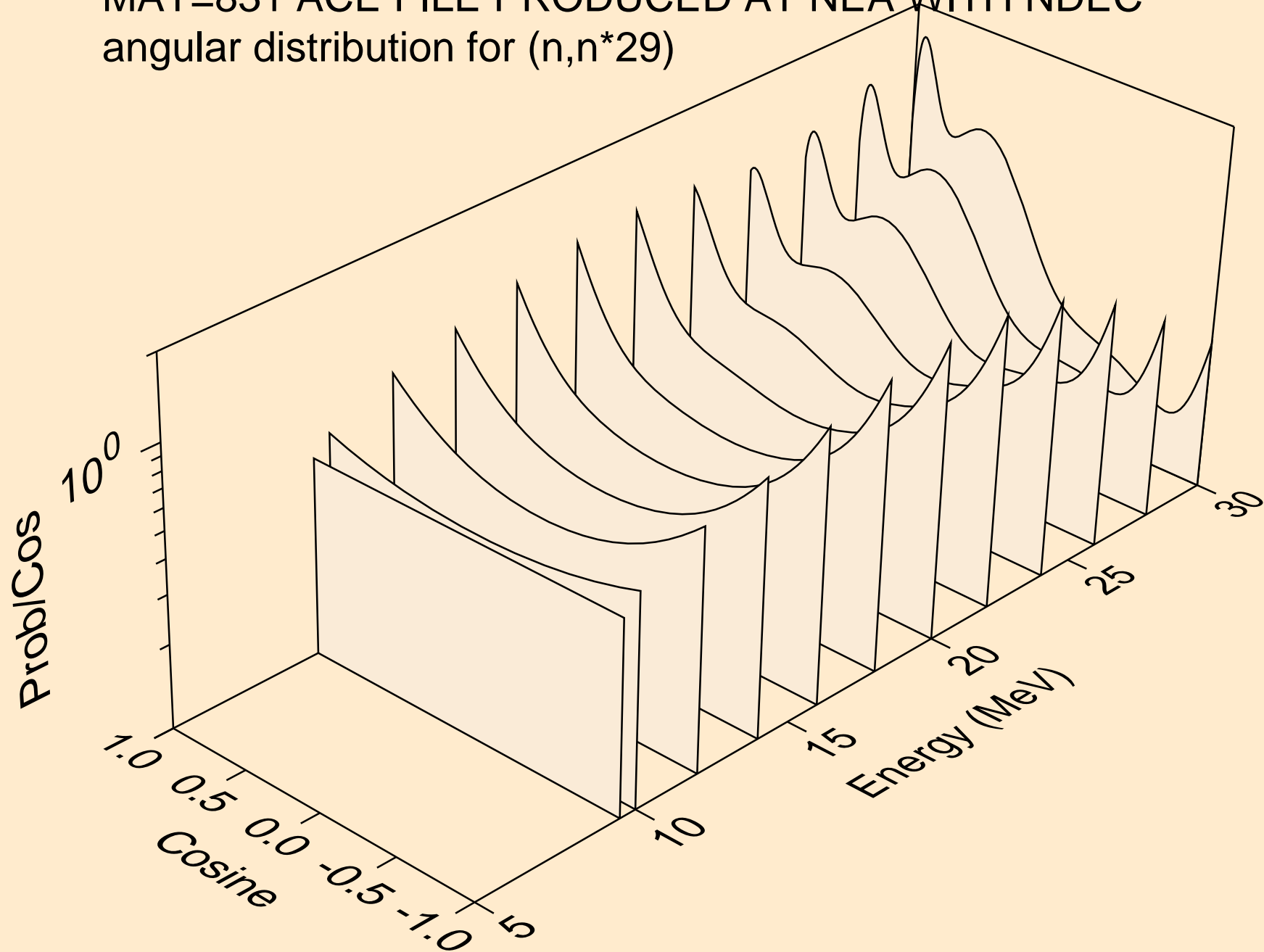
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angular distribution for (n,n\*27)



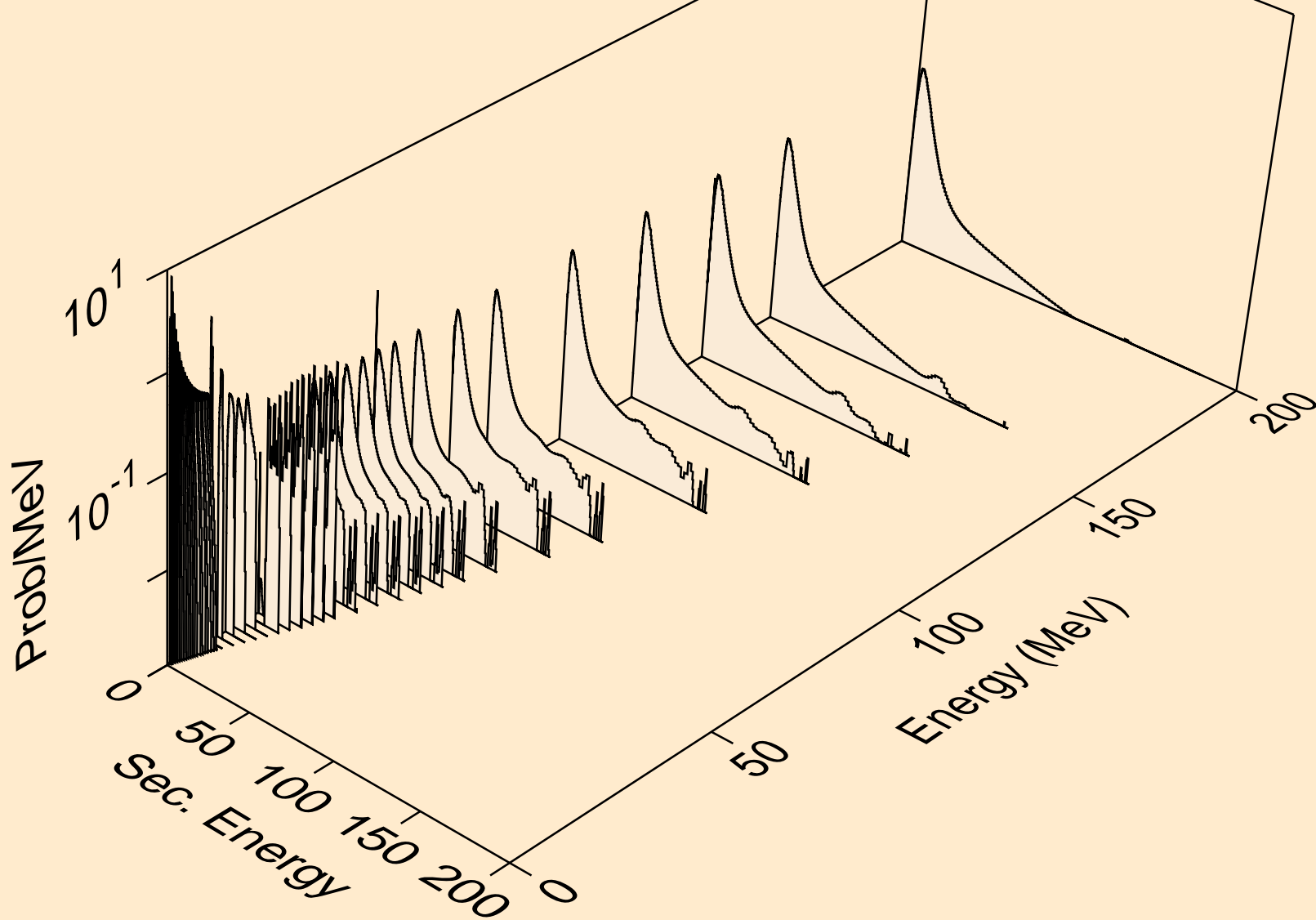
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angular distribution for (n,n\*28)



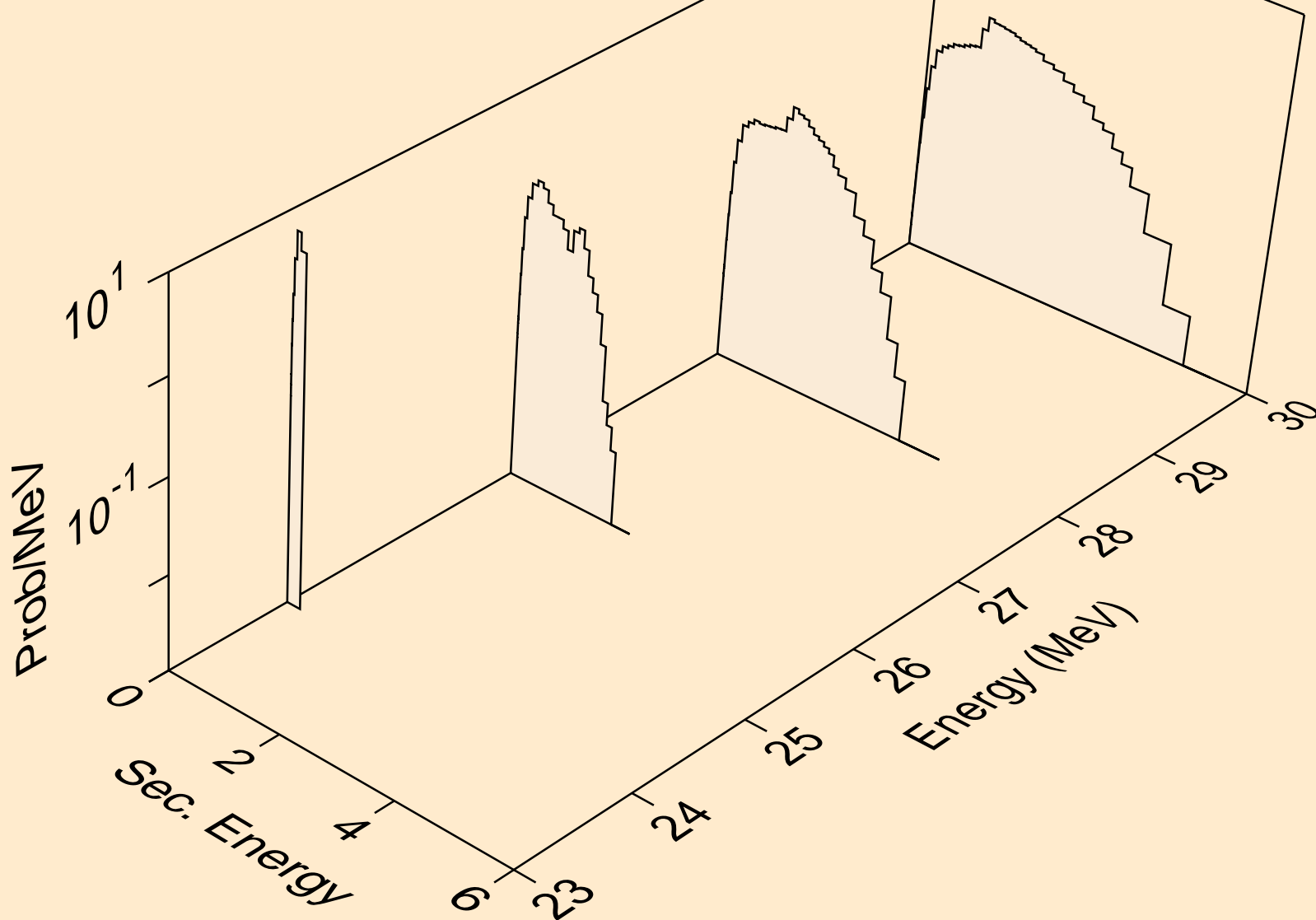
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angular distribution for (n,n\*29)



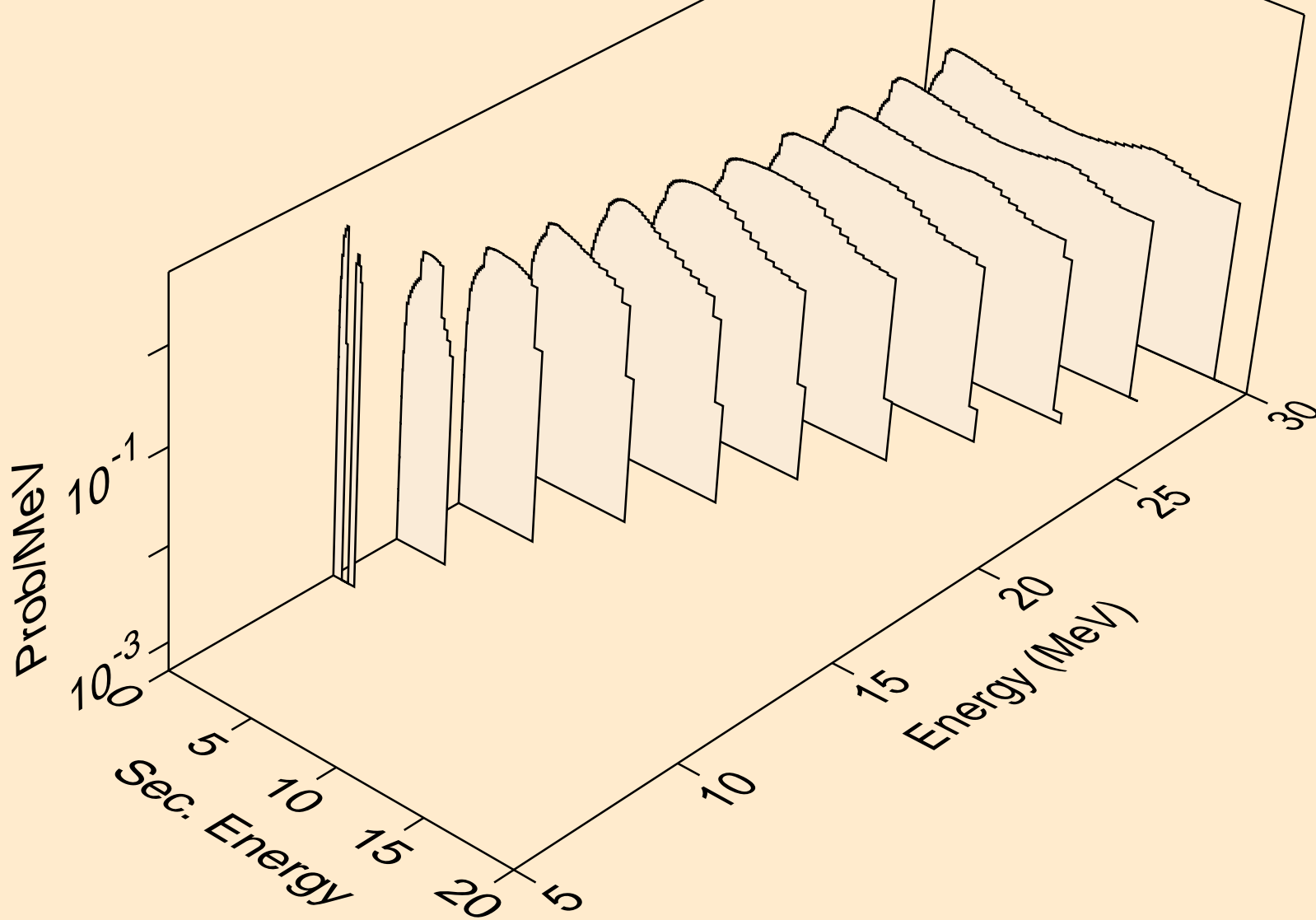
MAT=831 ACE FILE PRODUCED AT NEA WITH NDEC  
Neutron emission for (n,x)



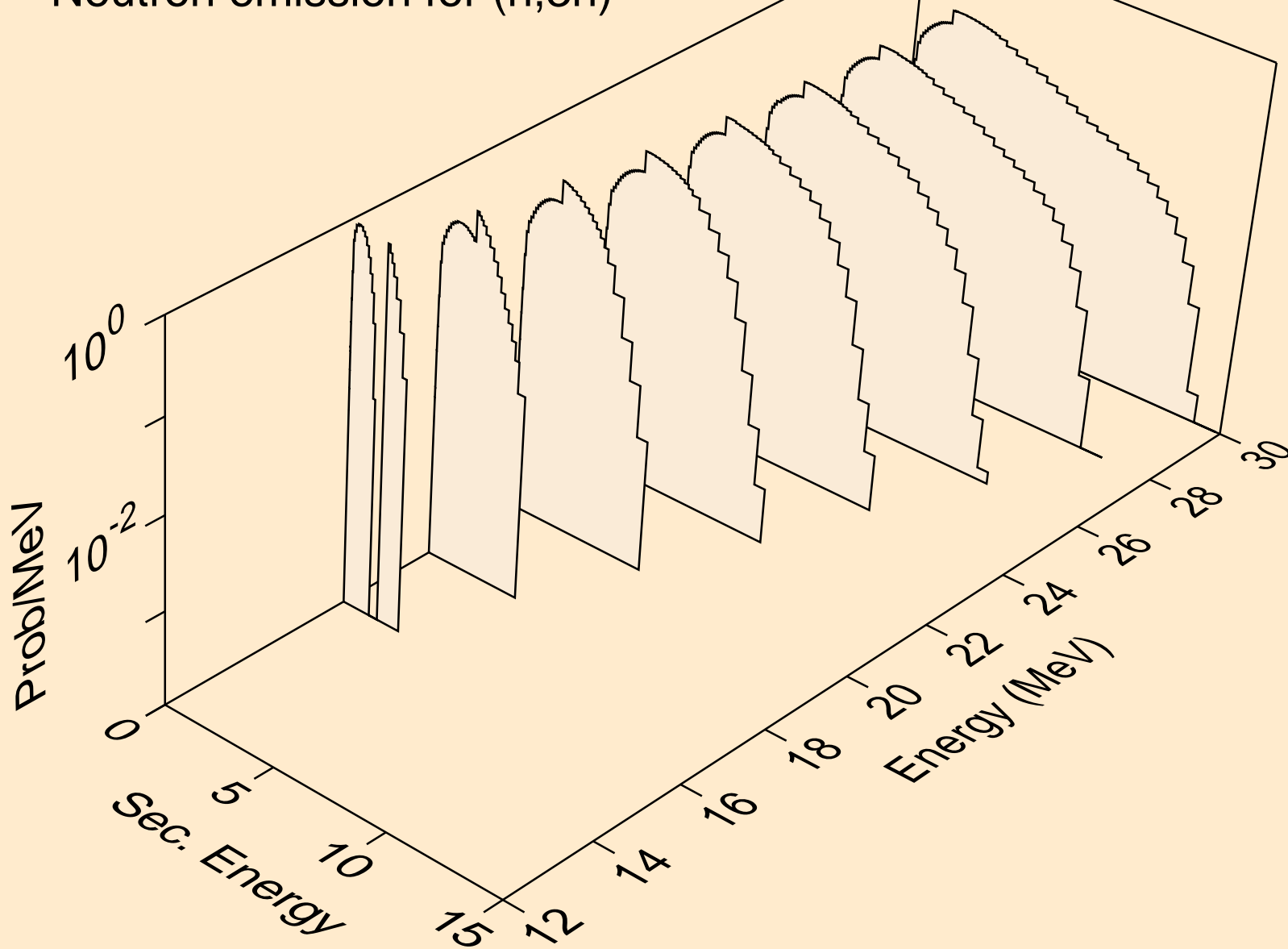
MAT=831 ACE FILE PRODUCED AT NEA WITH NDEC  
Neutron emission for (n,2nd)



MAT=831 ACE FILE PRODUCED AT NEA WITH NDEC  
Neutron emission for (n,2n)

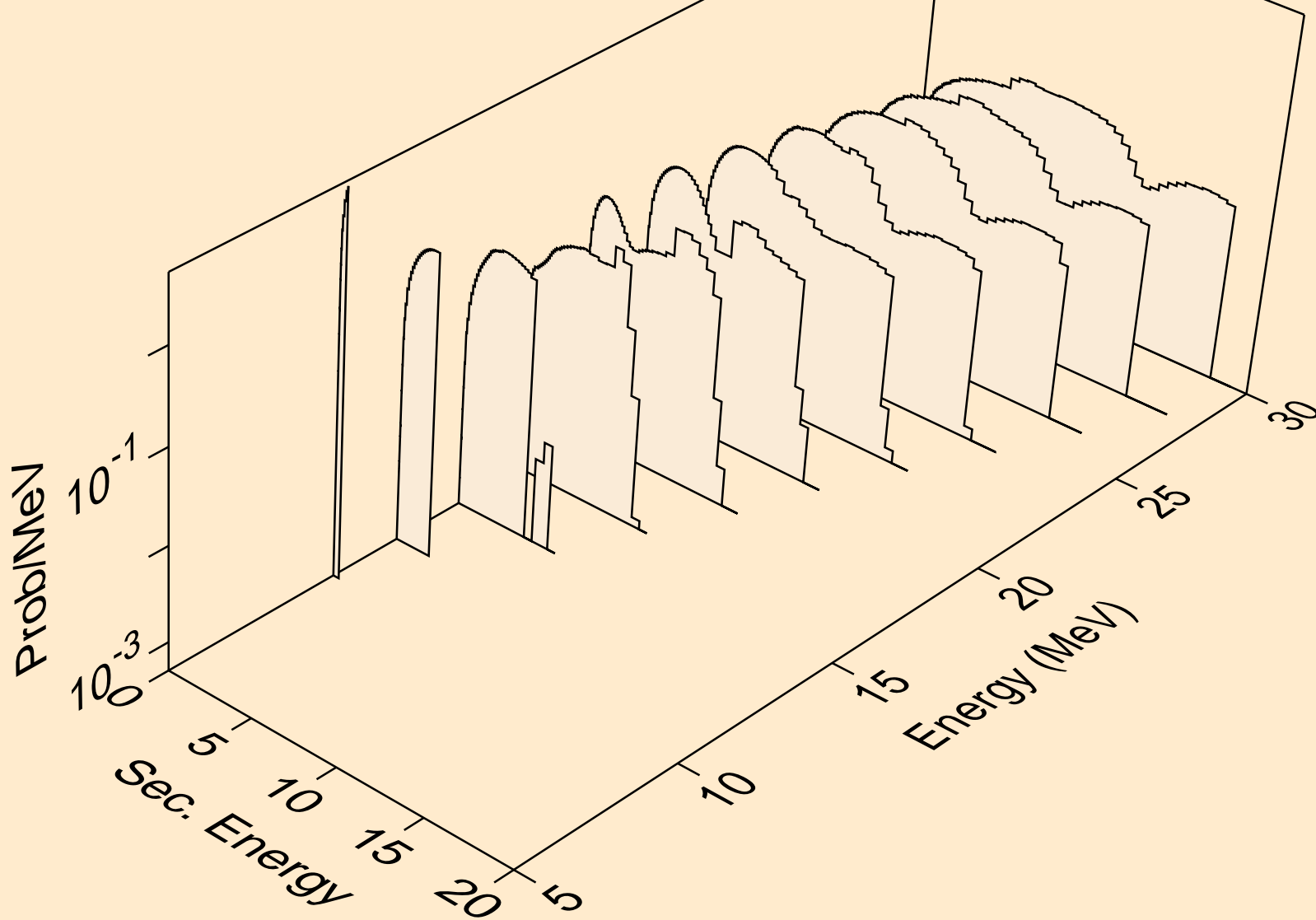


MAT=831 ACE FILE PRODUCED AT NEA WITH NDEC  
Neutron emission for (n,3n)

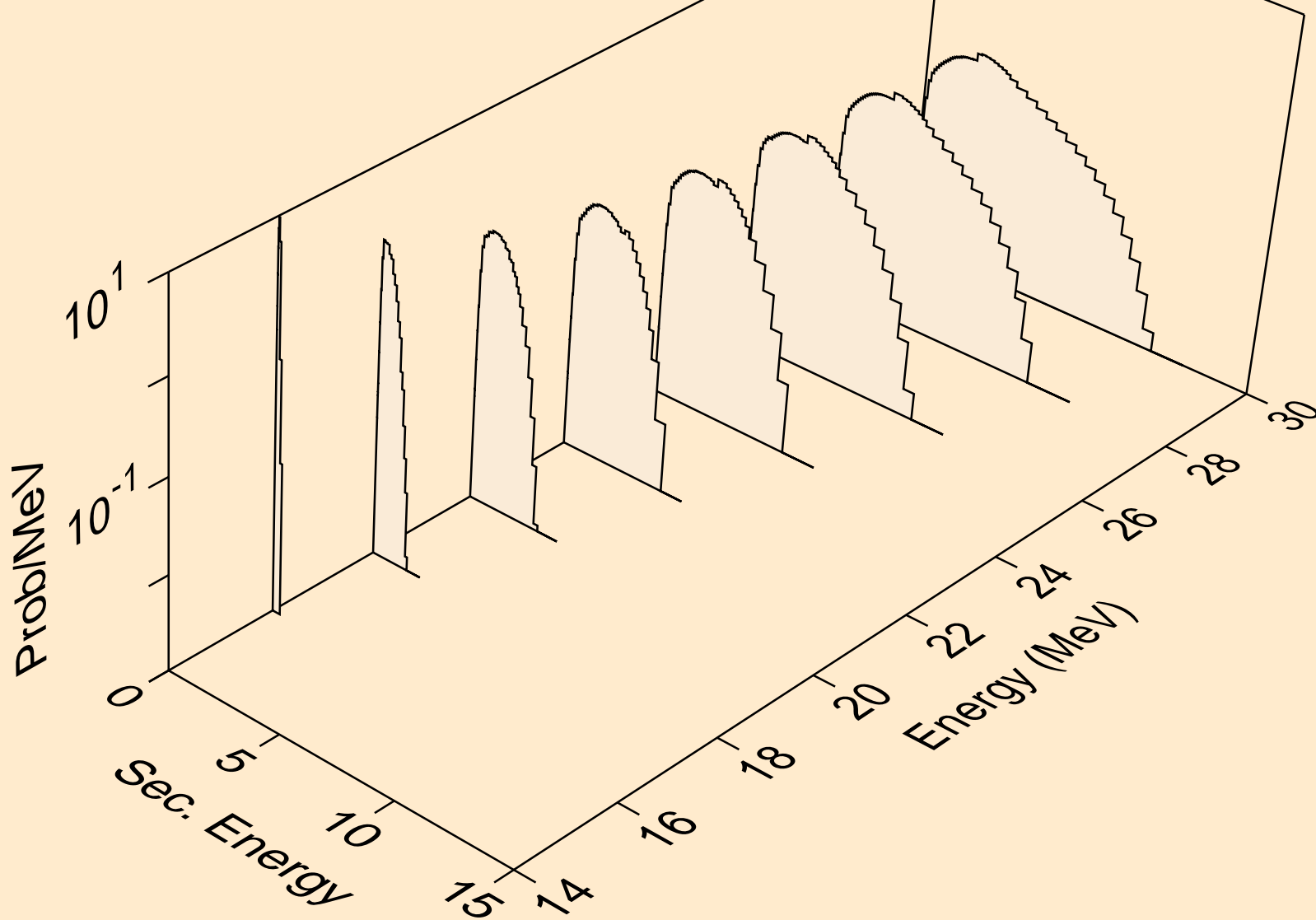




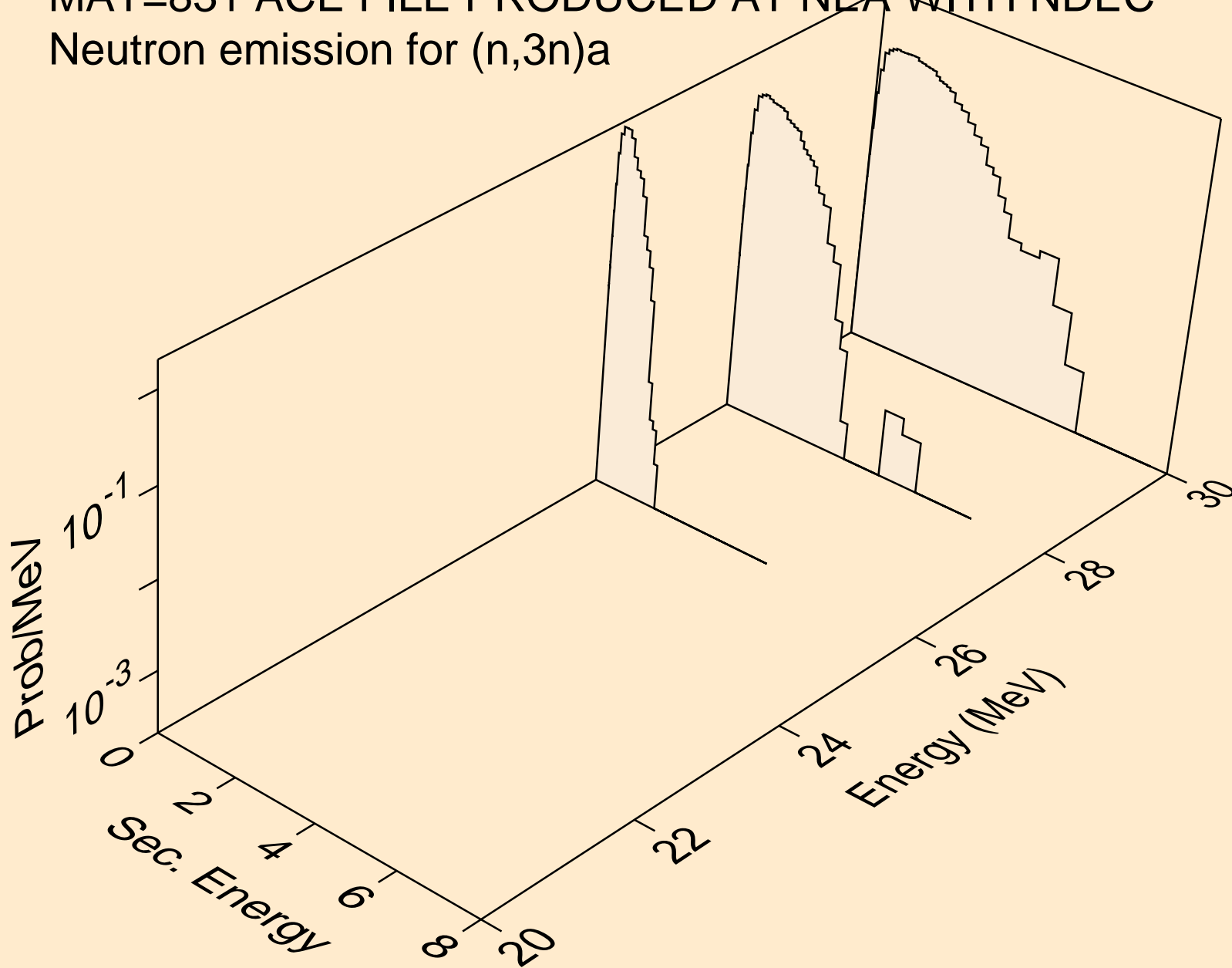
MAT=831 ACE FILE PRODUCED AT NEA WITH NDEC  
Neutron emission for (n,n\*)a



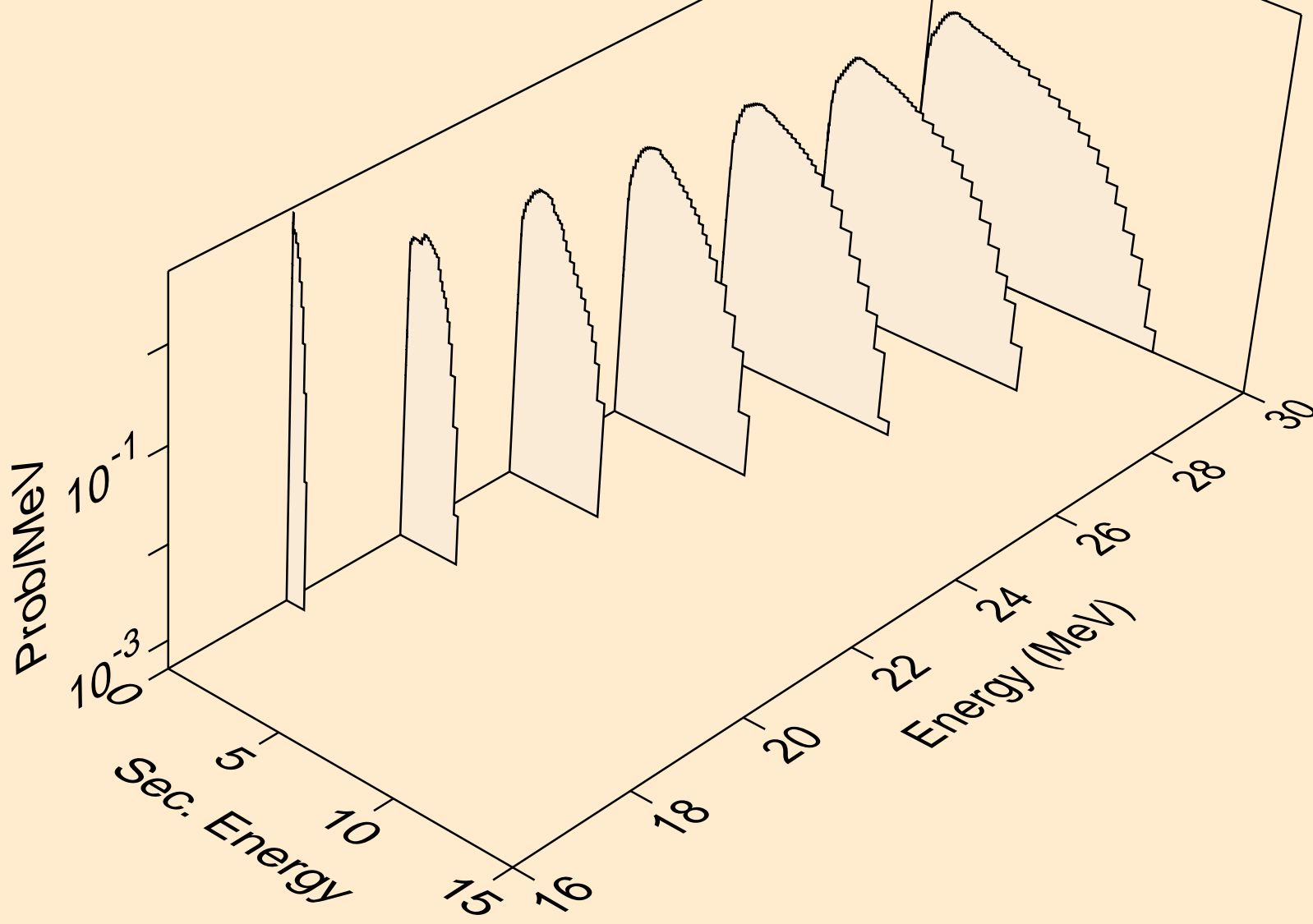
MAT=831 ACE FILE PRODUCED AT NEA WITH NDEC  
Neutron emission for (n,2n)a



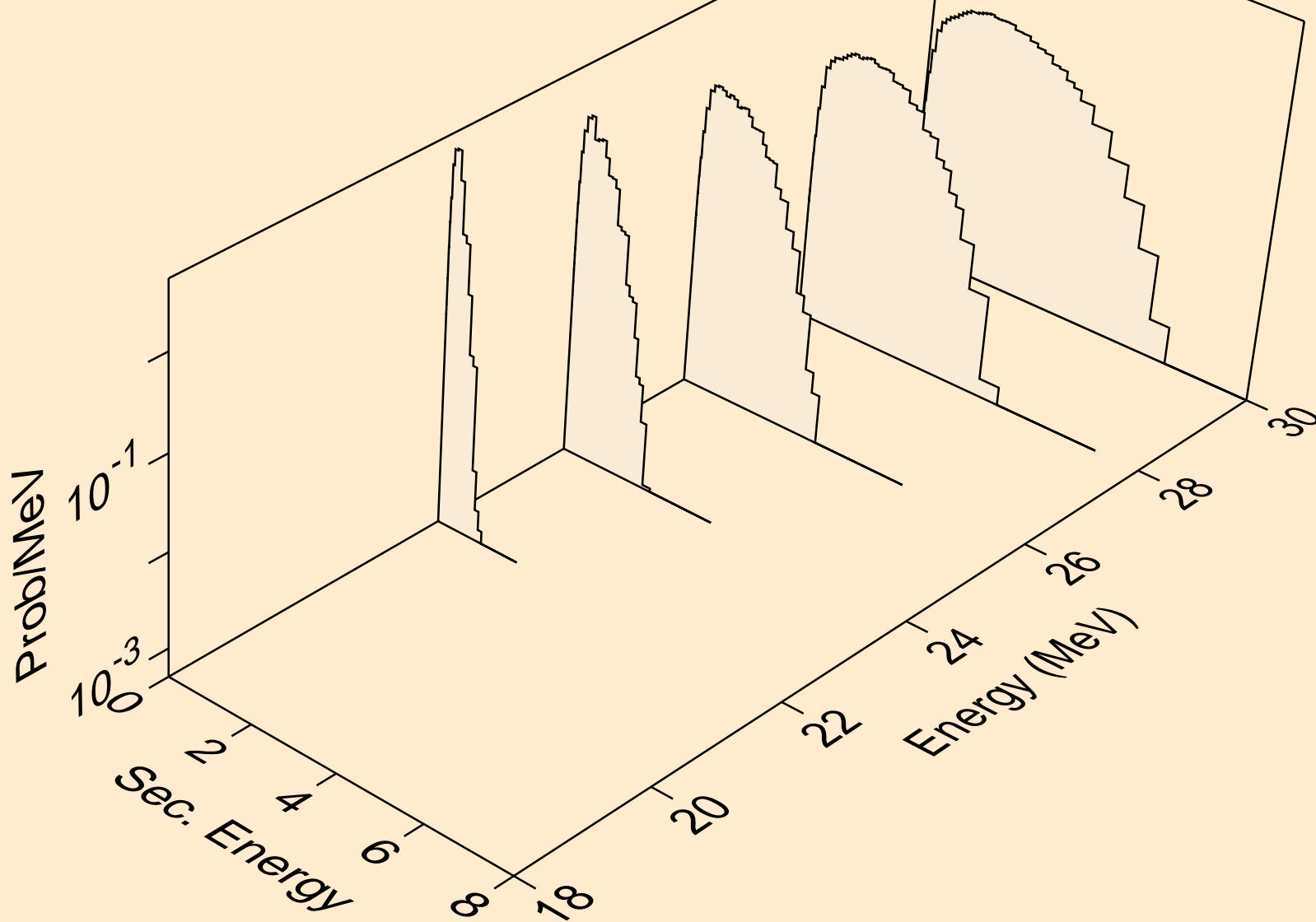
MAT=831 ACE FILE PRODUCED AT NEA WITH NDEC  
Neutron emission for (n,3n)a



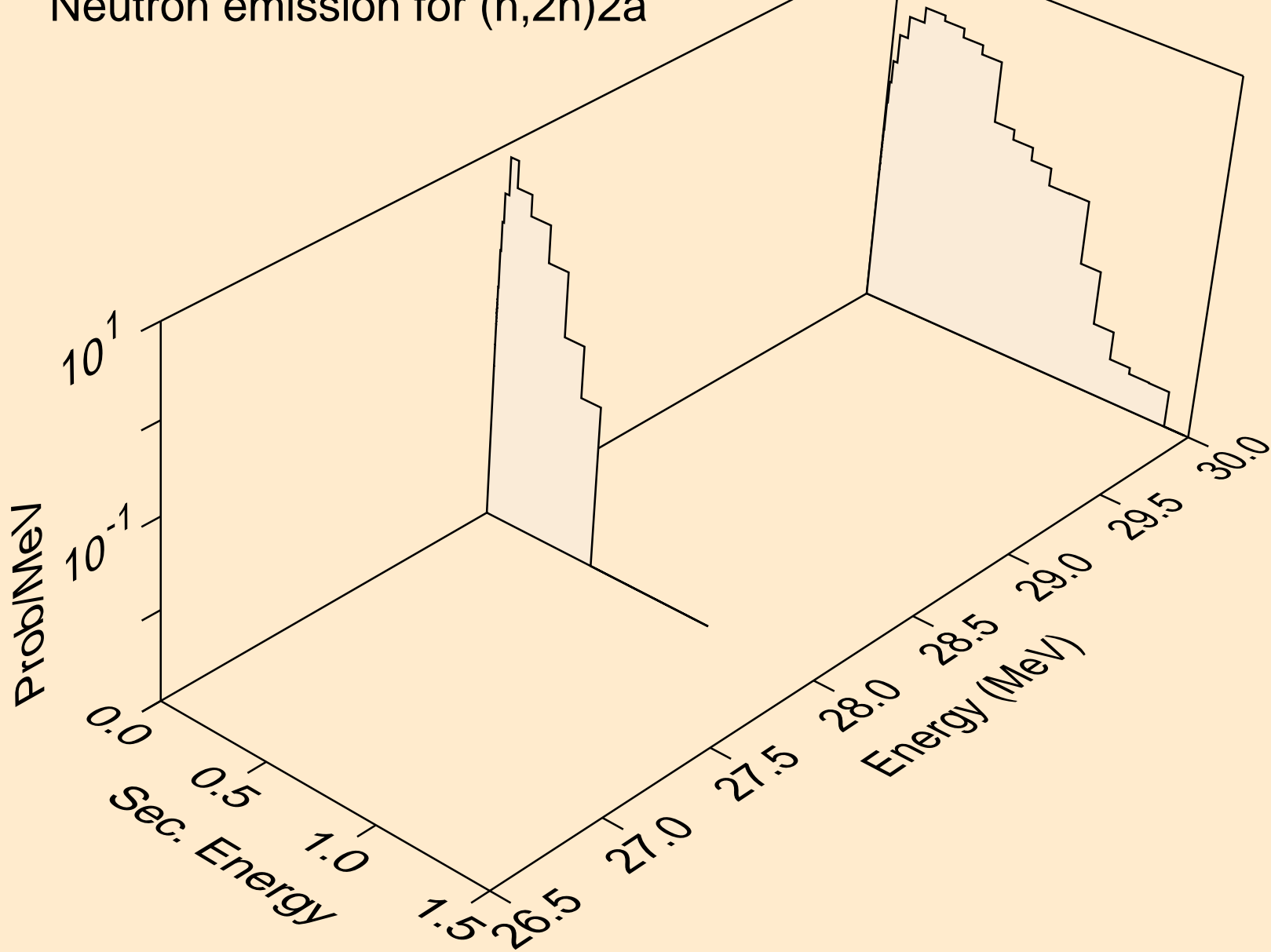
MAT=831 ACE FILE PRODUCED AT NEA WITH NDEC  
Neutron emission for (n,n\*)p



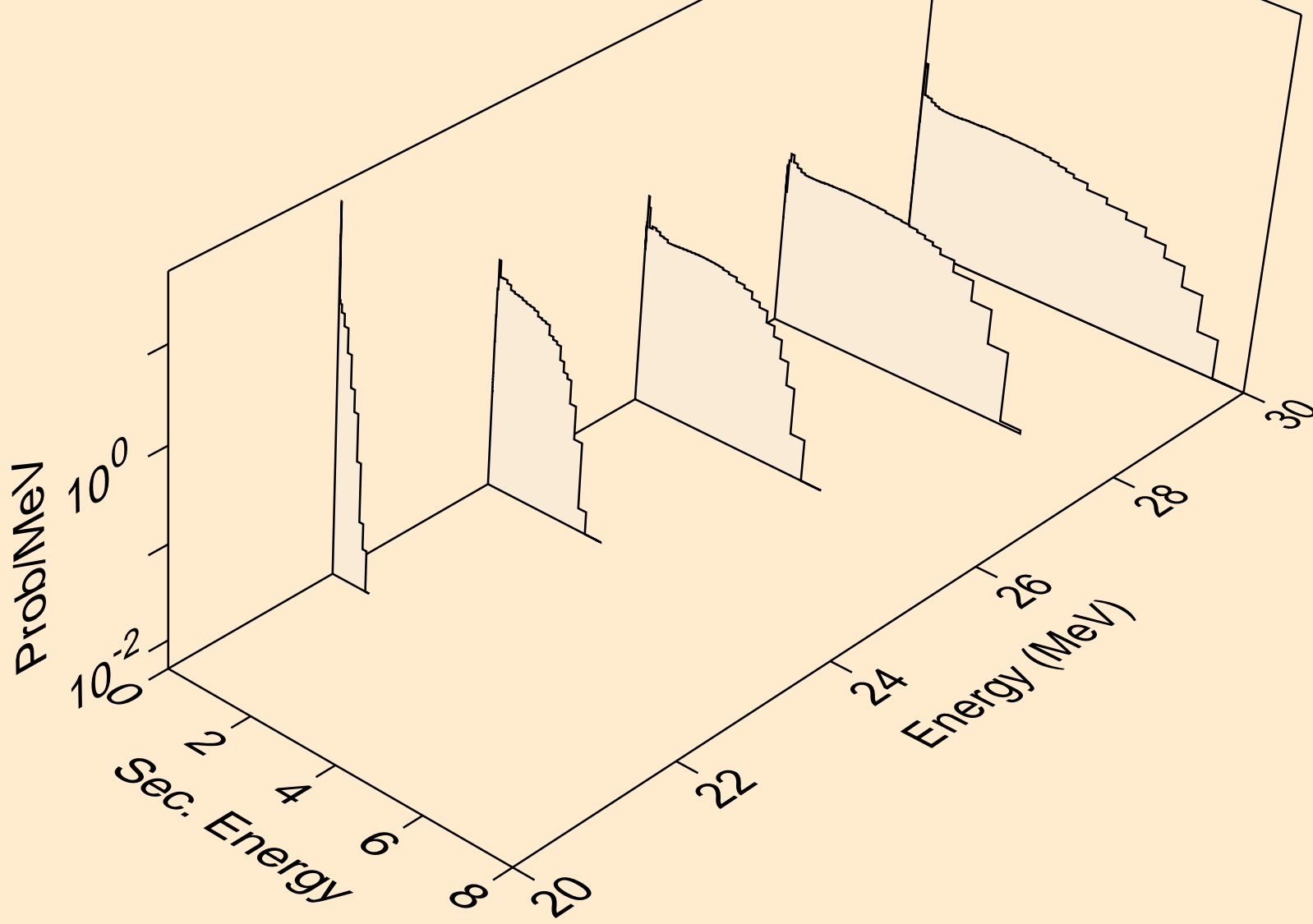
MAT=831 ACE FILE PRODUCED AT NEA WITH NDEC  
Neutron emission for (n,n\*)2a



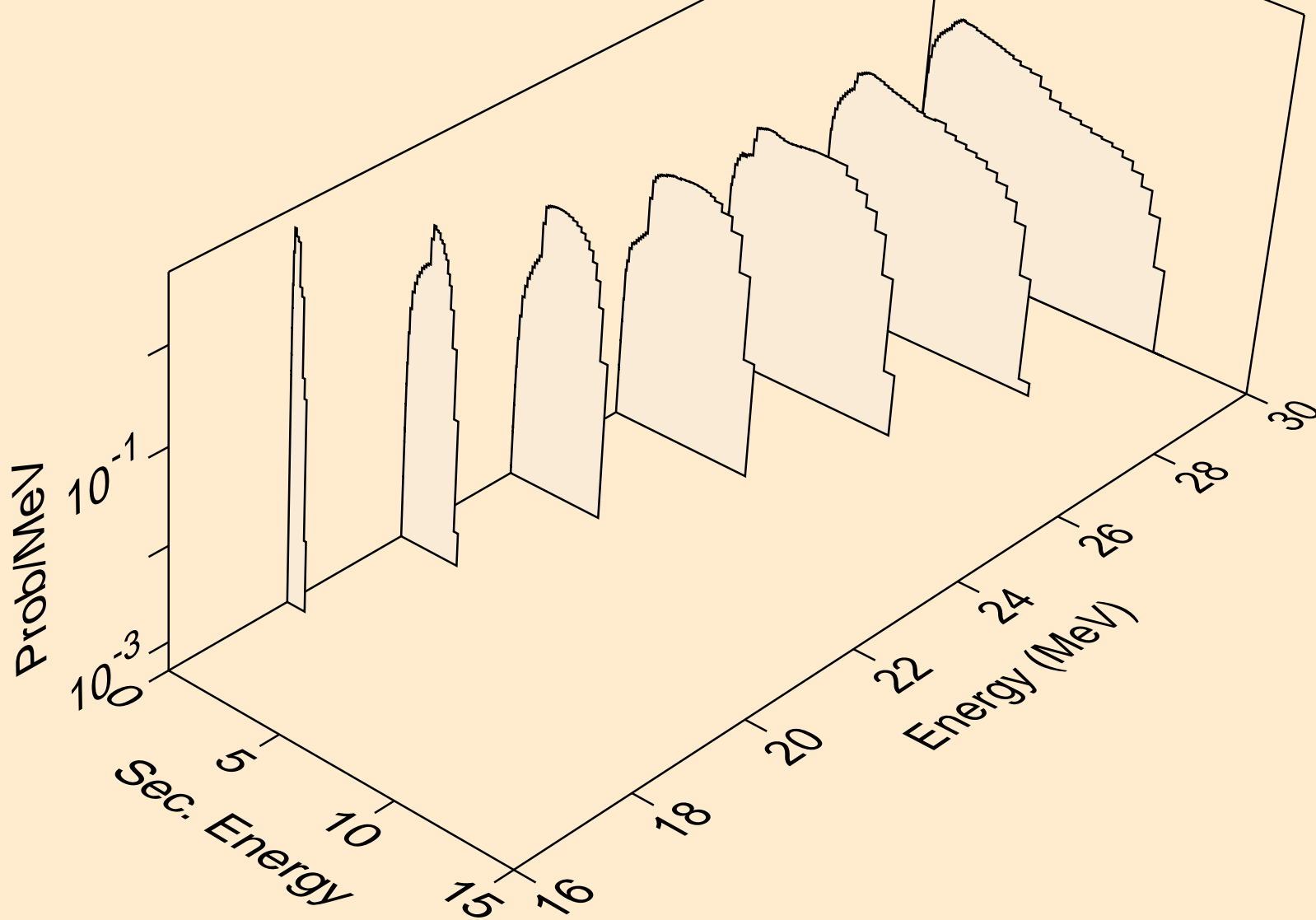
MAT=831 ACE FILE PRODUCED AT NEA WITH NDEC  
Neutron emission for (n,2n)2a



MAT=831 ACE FILE PRODUCED AT NEA WITH NDEC  
Neutron emission for (n,n\*)d

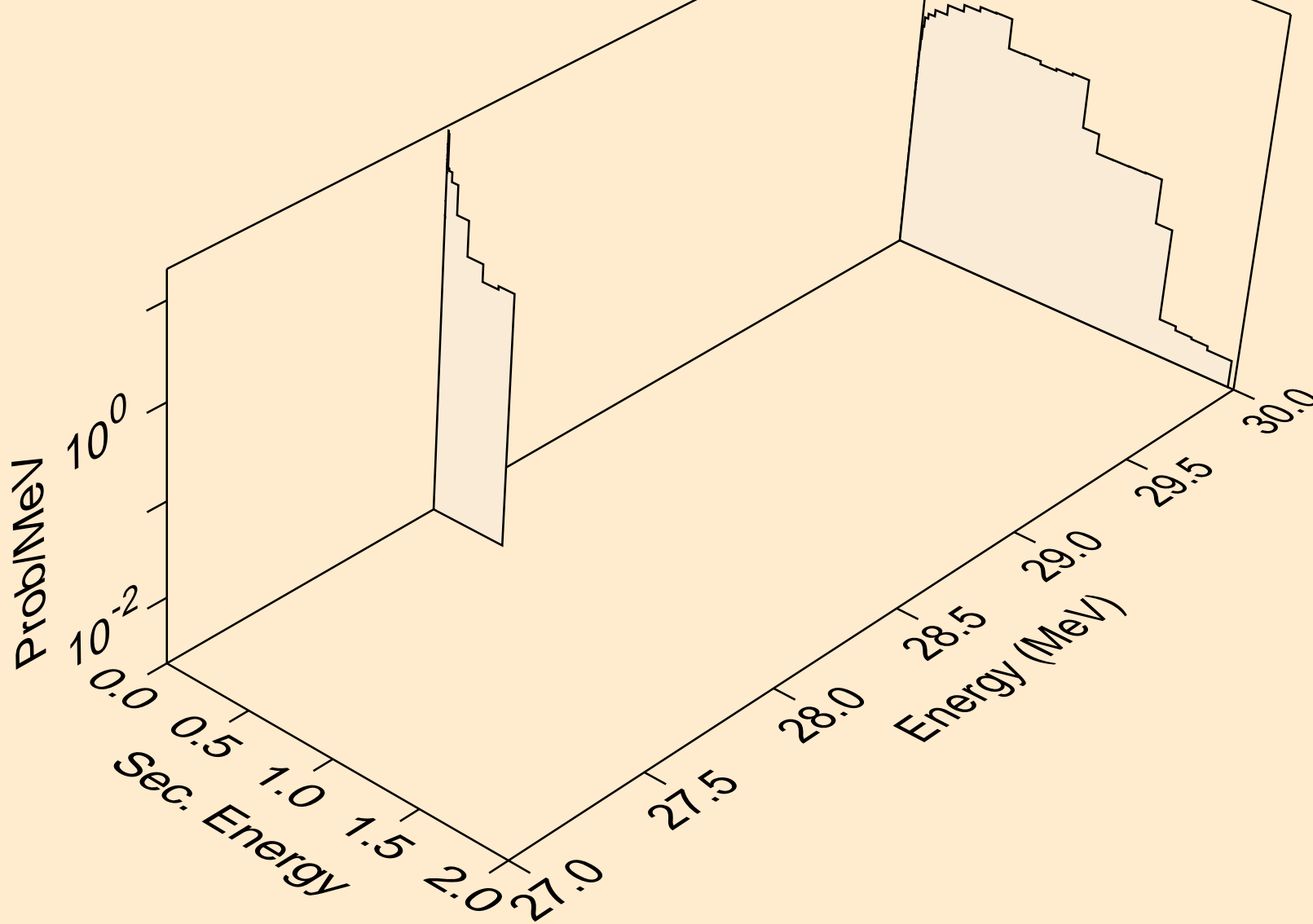


MAT=831 ACE FILE PRODUCED AT NEA WITH NDEC  
Neutron emission for (n,n\*)t

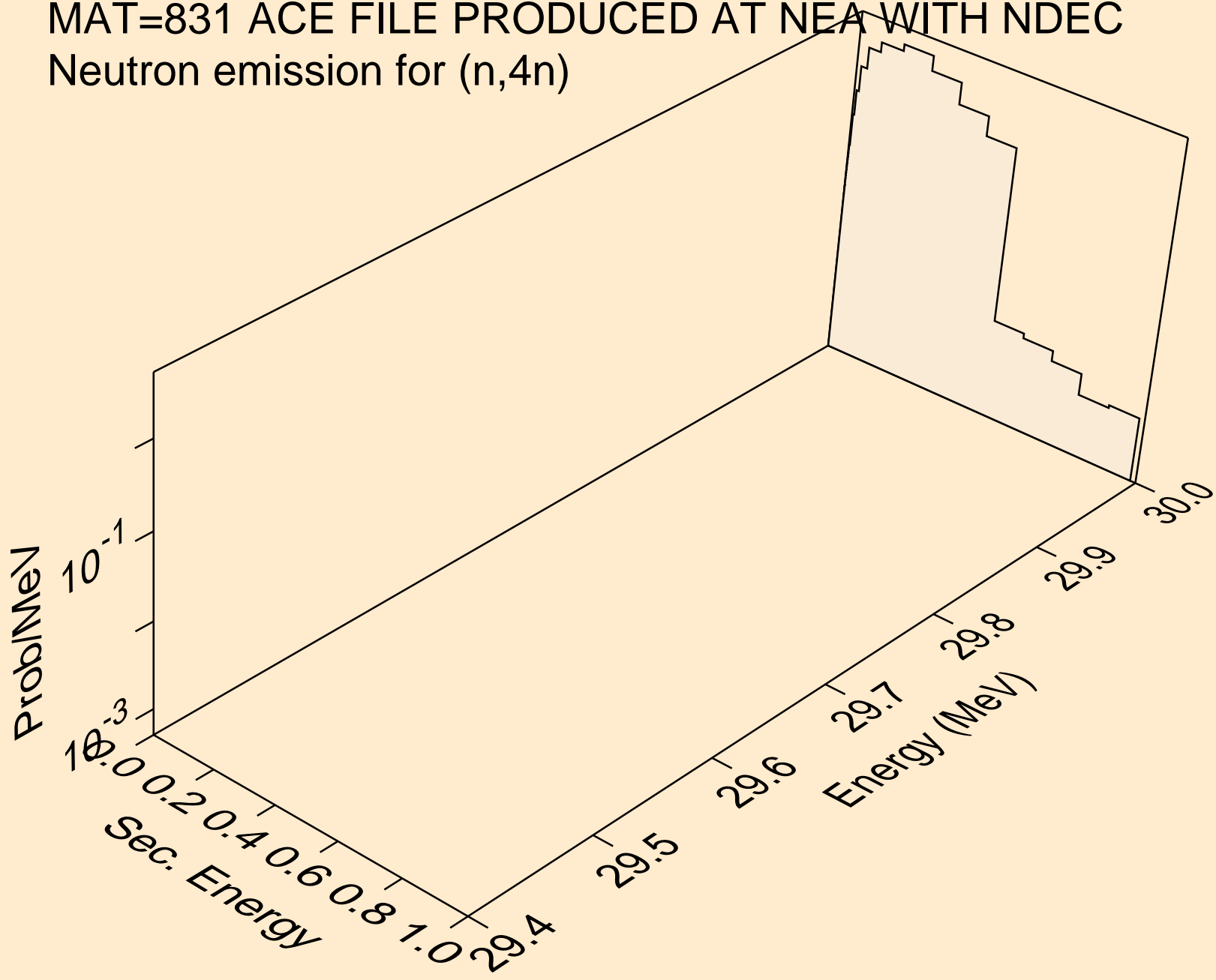




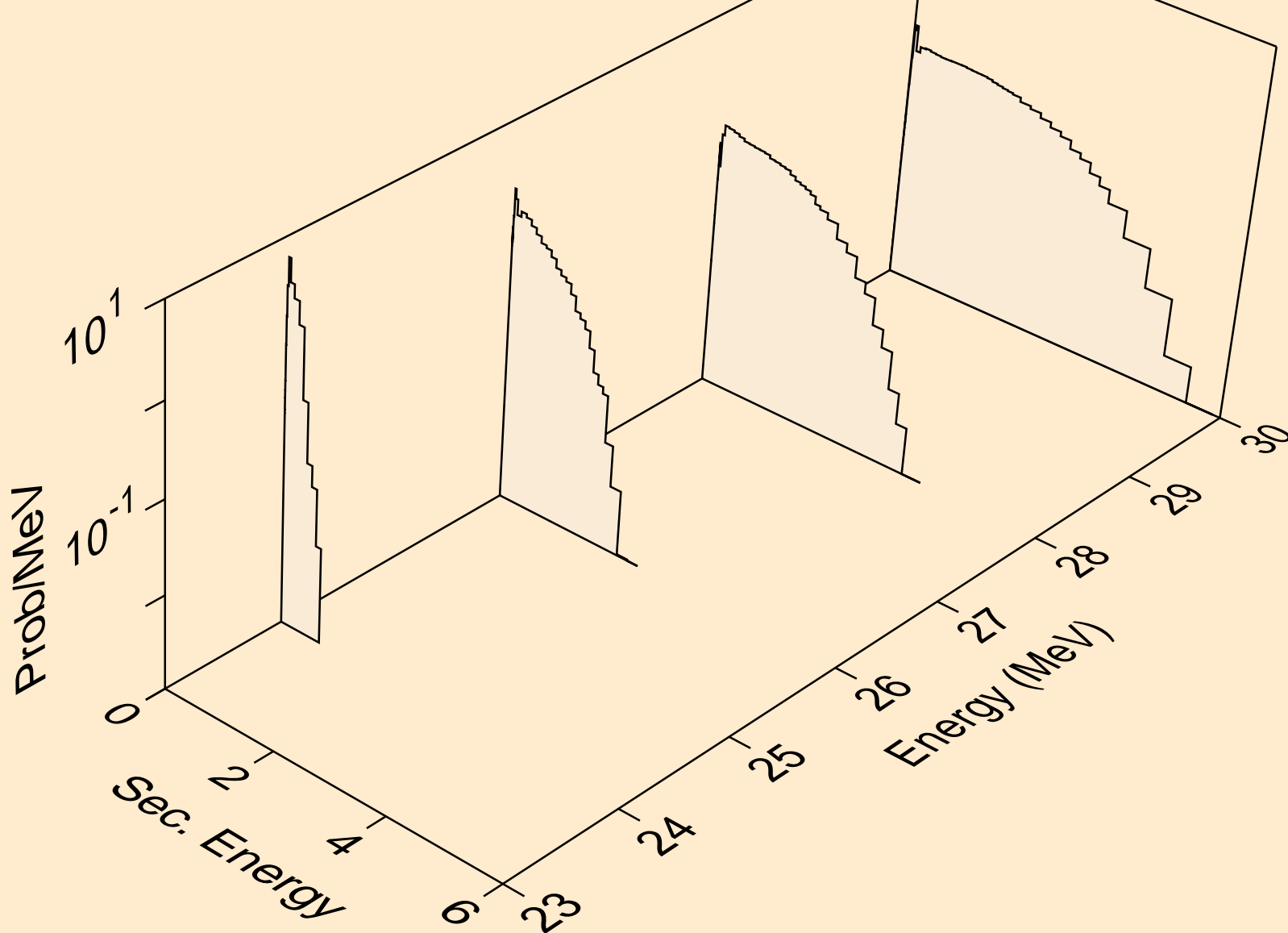
MAT=831 ACE FILE PRODUCED AT NEA WITH NDEC  
Neutron emission for (n,n\*)he3



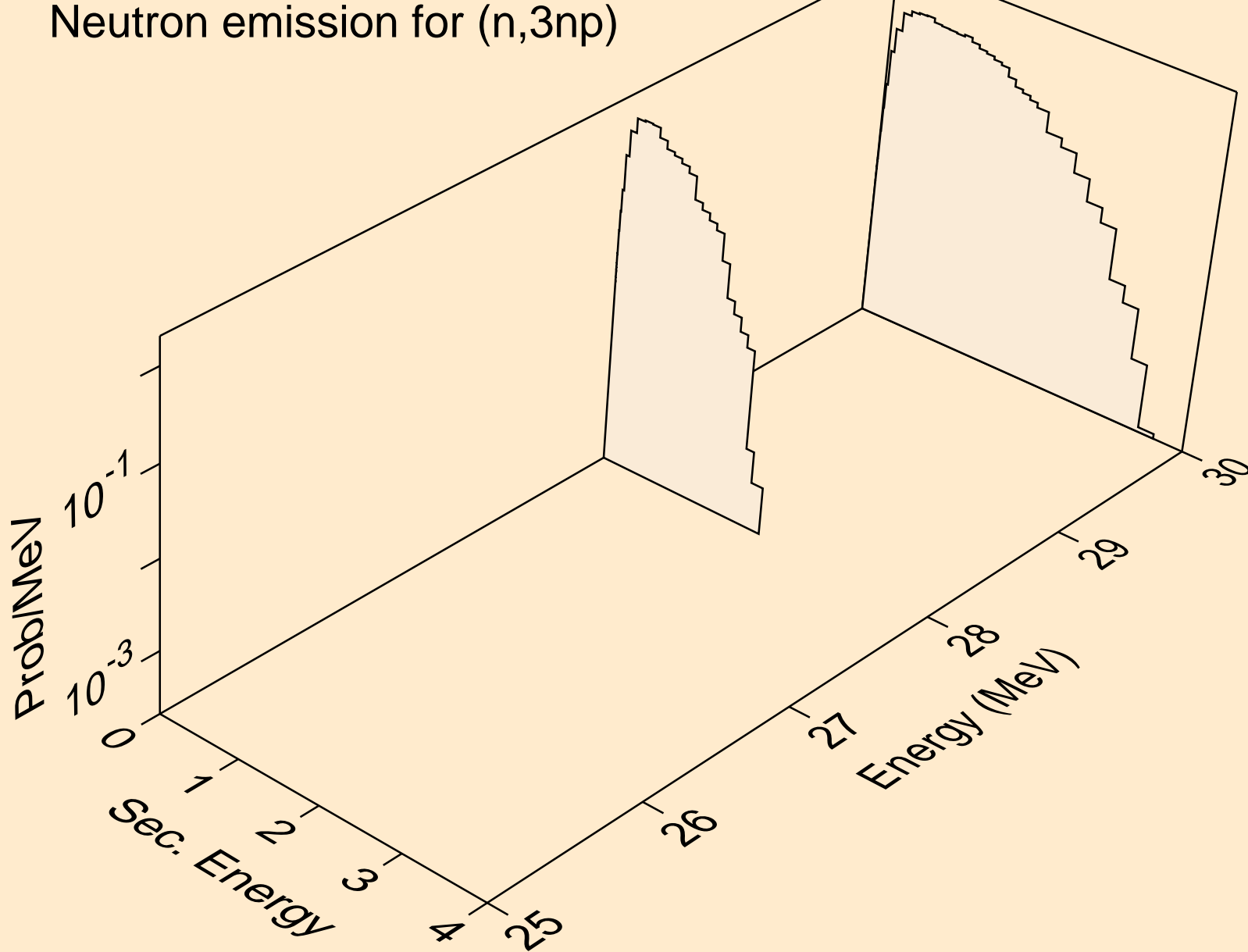
MAT=831 ACE FILE PRODUCED AT NEA WITH NDEC  
Neutron emission for (n,4n)



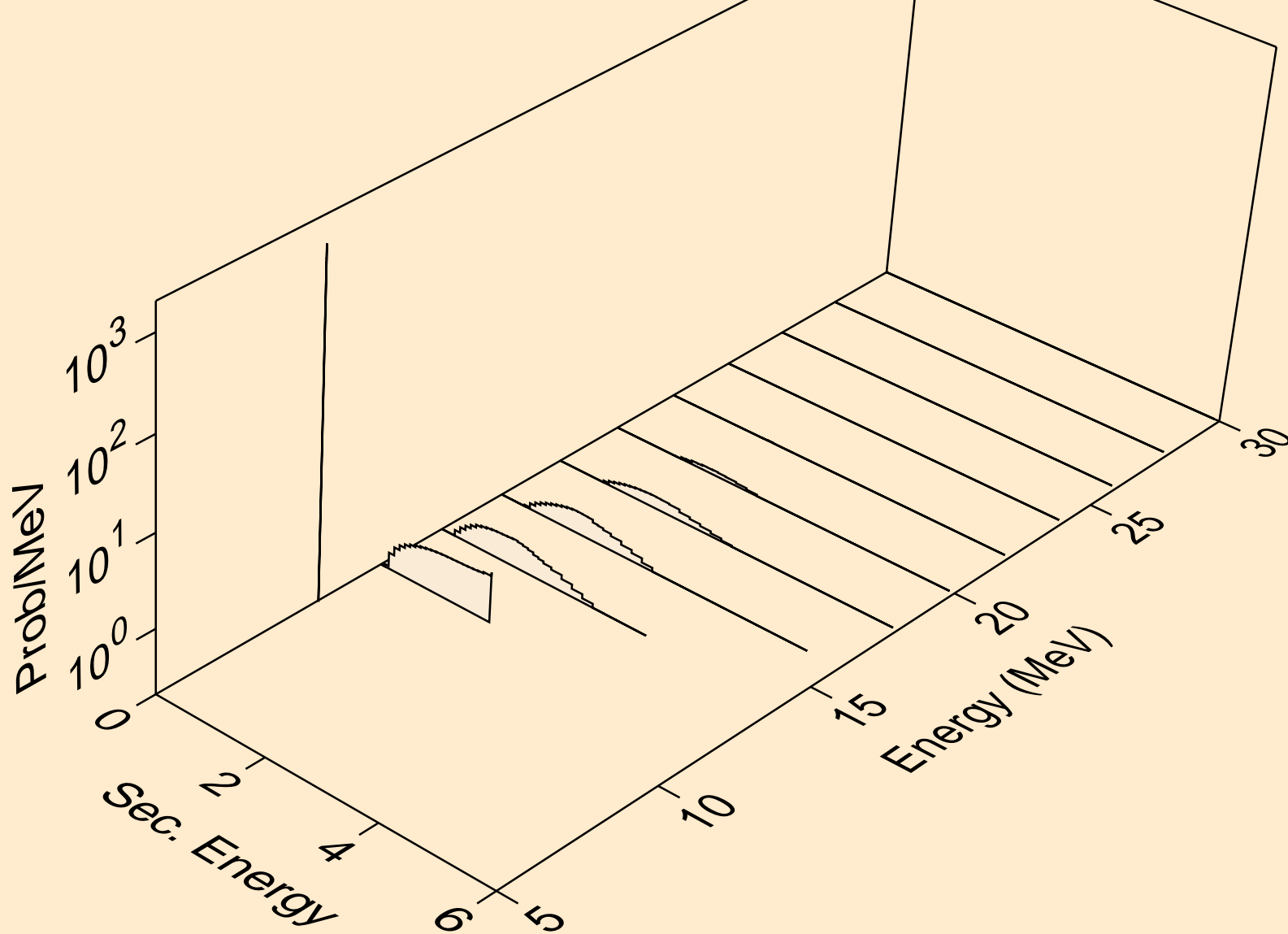
MAT=831 ACE FILE PRODUCED AT NEA WITH NDEC  
Neutron emission for (n,2np)



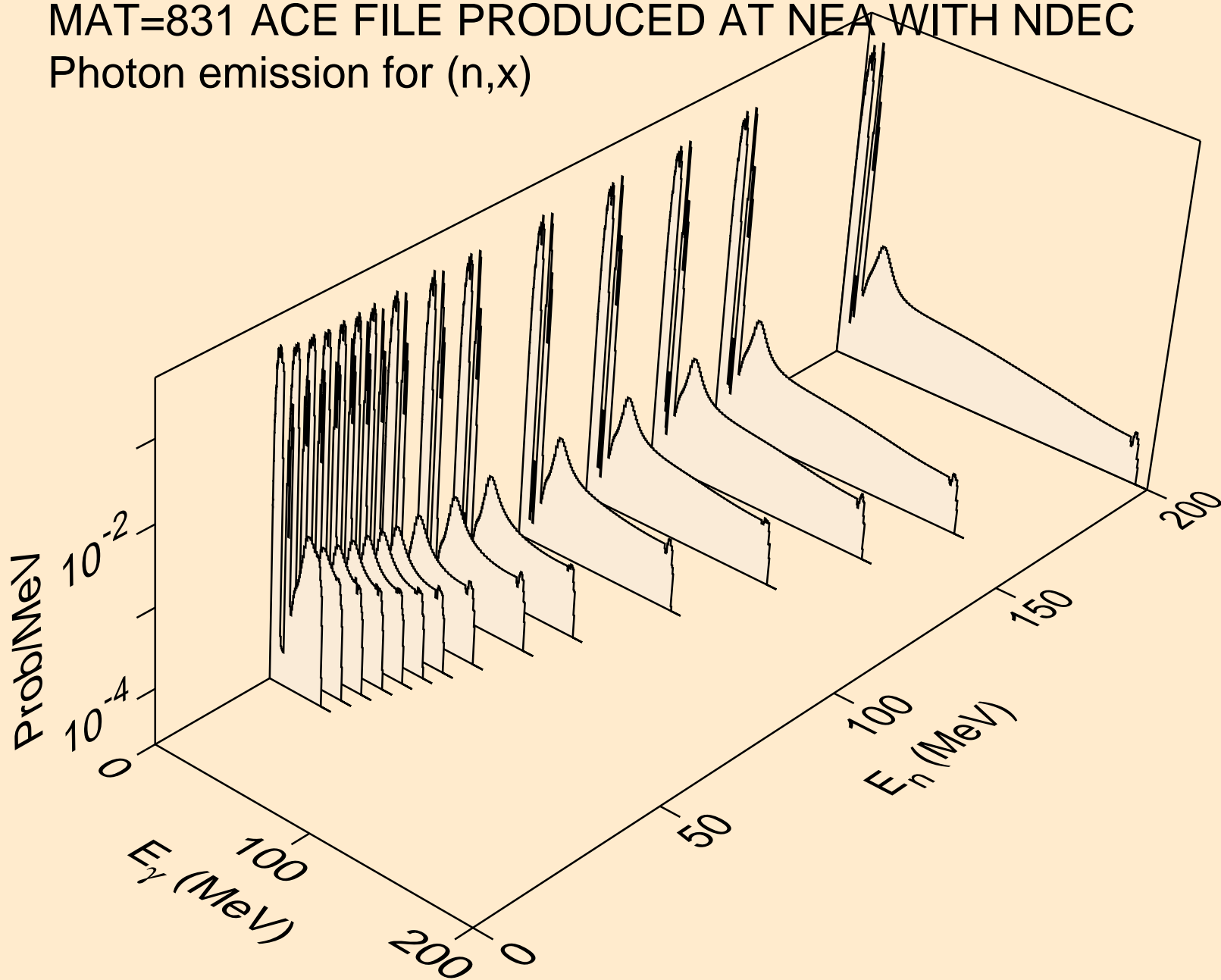
MAT=831 ACE FILE PRODUCED AT NEA WITH NDEC  
Neutron emission for (n,3np)



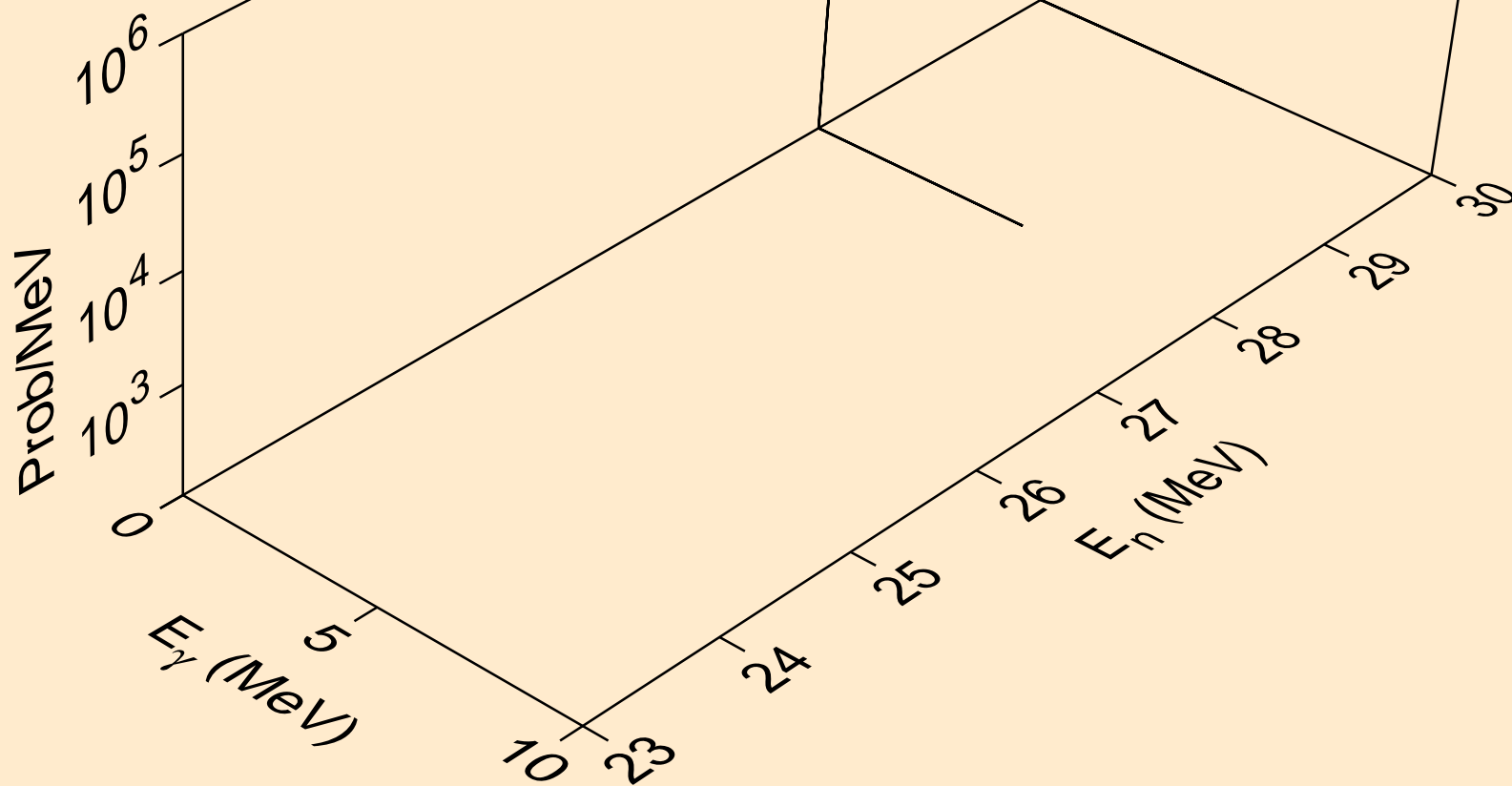
MAT=831 ACE FILE PRODUCED AT NEA WITH NDEC  
Neutron emission for (n,n\*c)



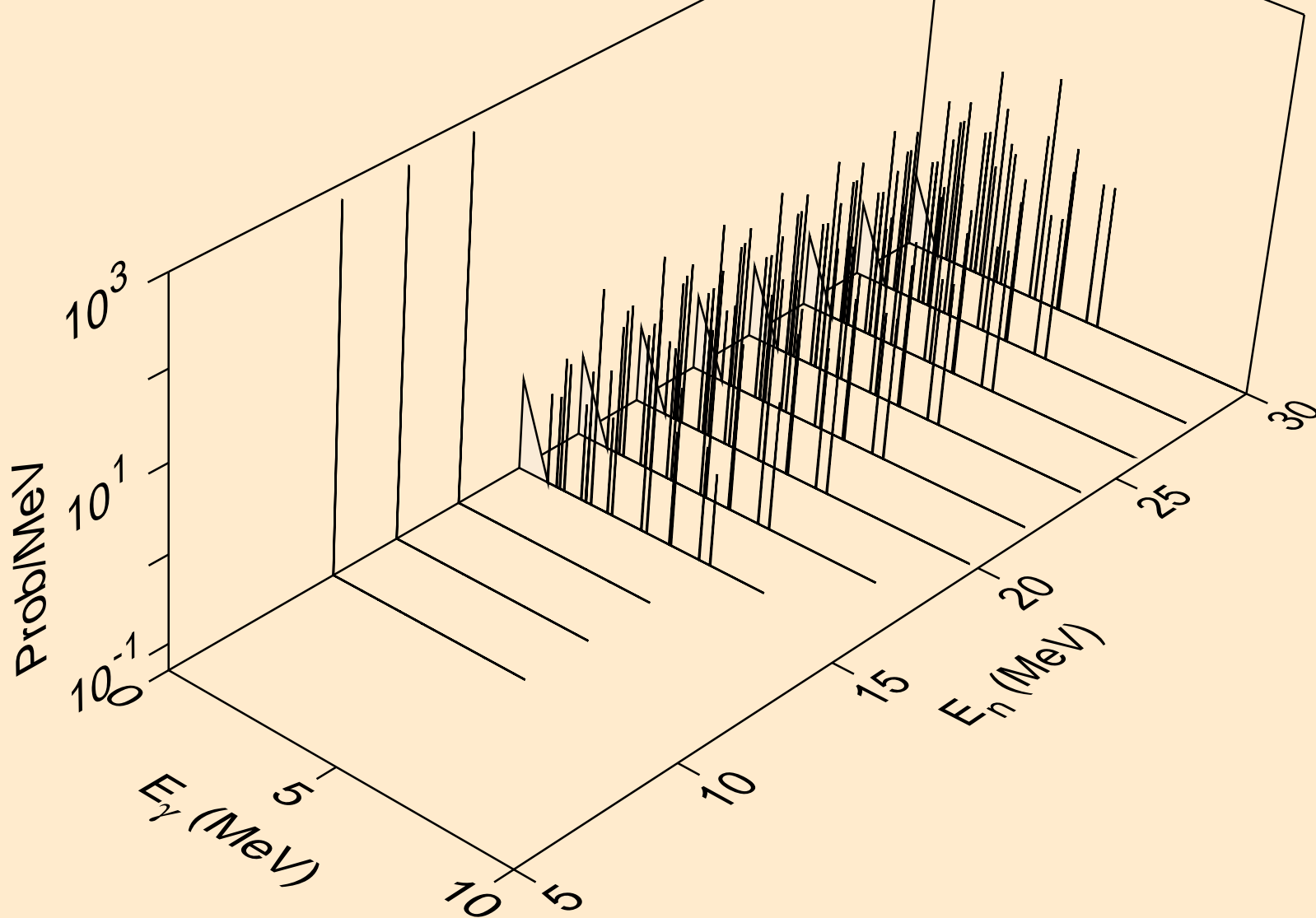
MAT=831 ACE FILE PRODUCED AT NEA WITH NDEC  
Photon emission for (n,x)



MAT=831 ACE FILE PRODUCED AT NEA WITH NDEC  
Photon emission for (n,2nd)

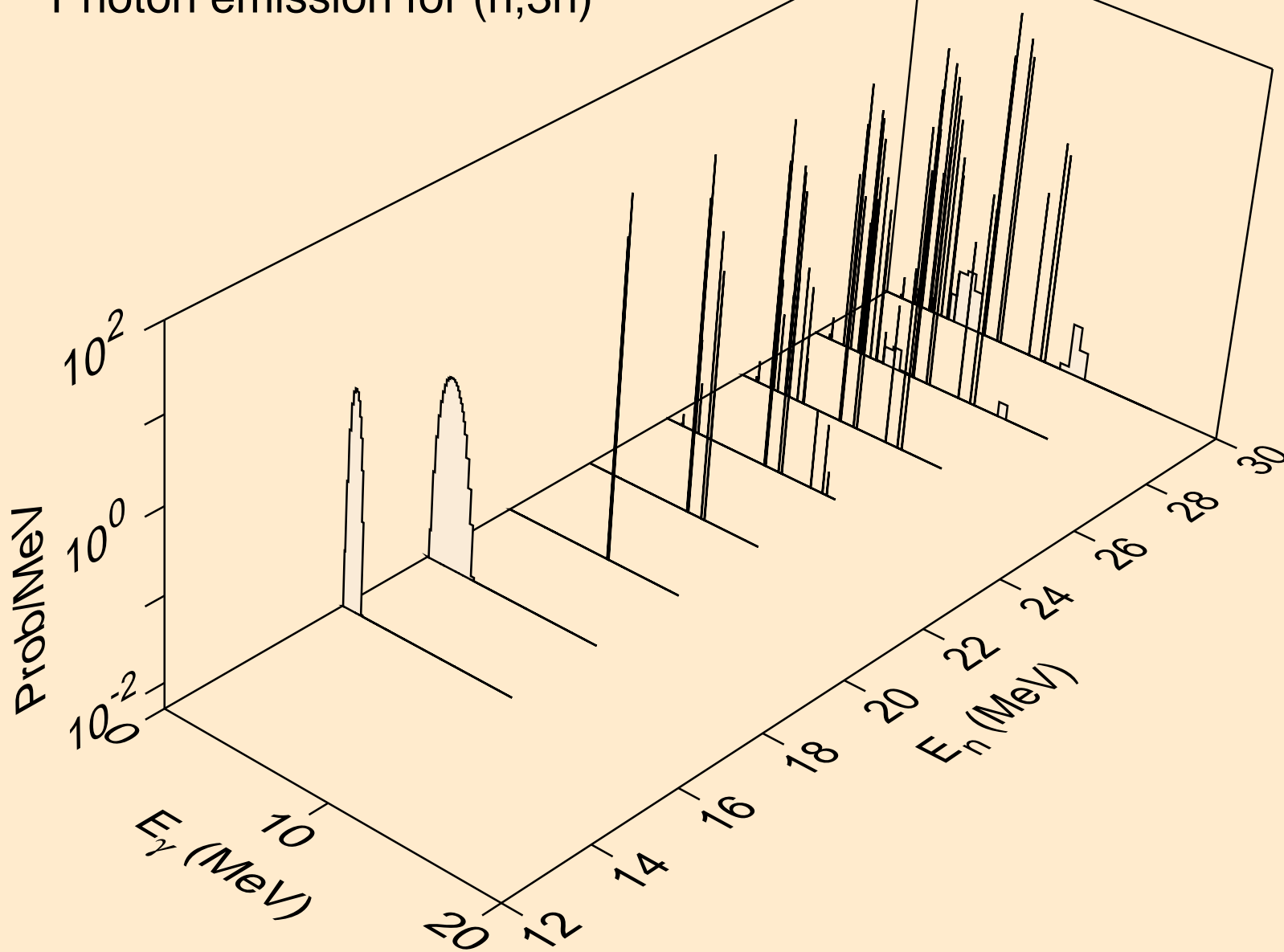


MAT=831 ACE FILE PRODUCED AT NEA WITH NDEC  
Photon emission for (n,2n)

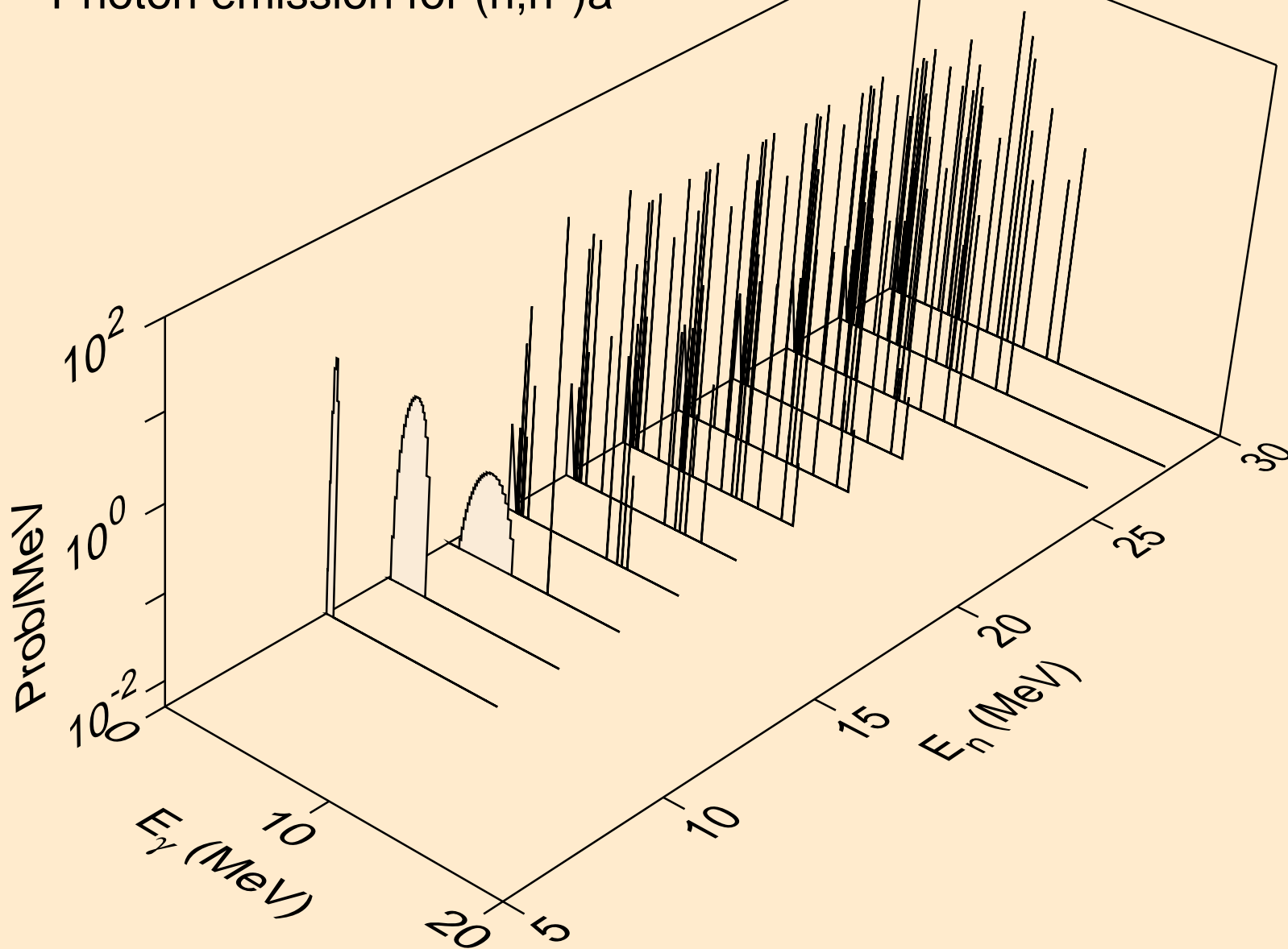




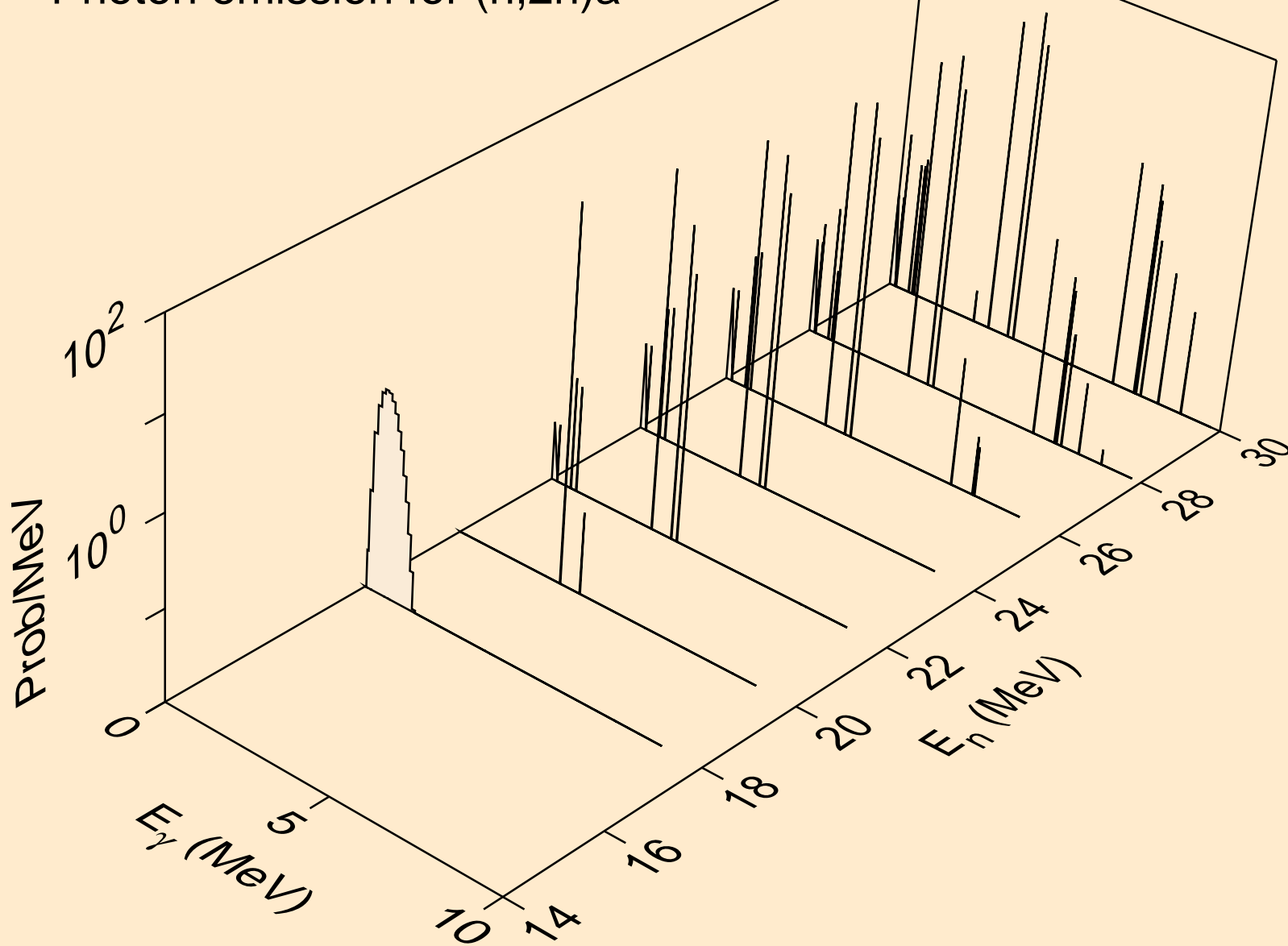
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Photon emission for (n,3n)



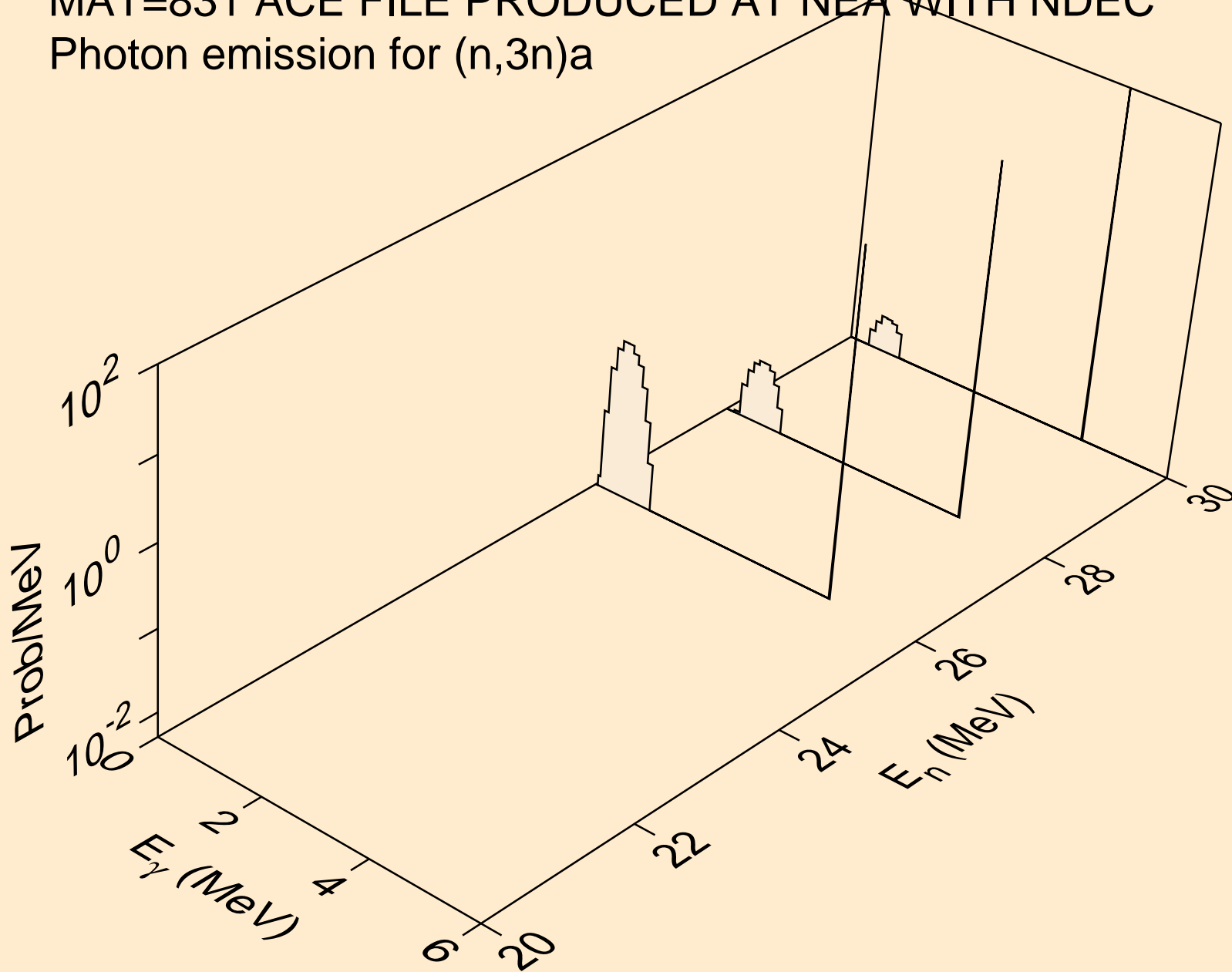
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Photon emission for (n,n\*)a



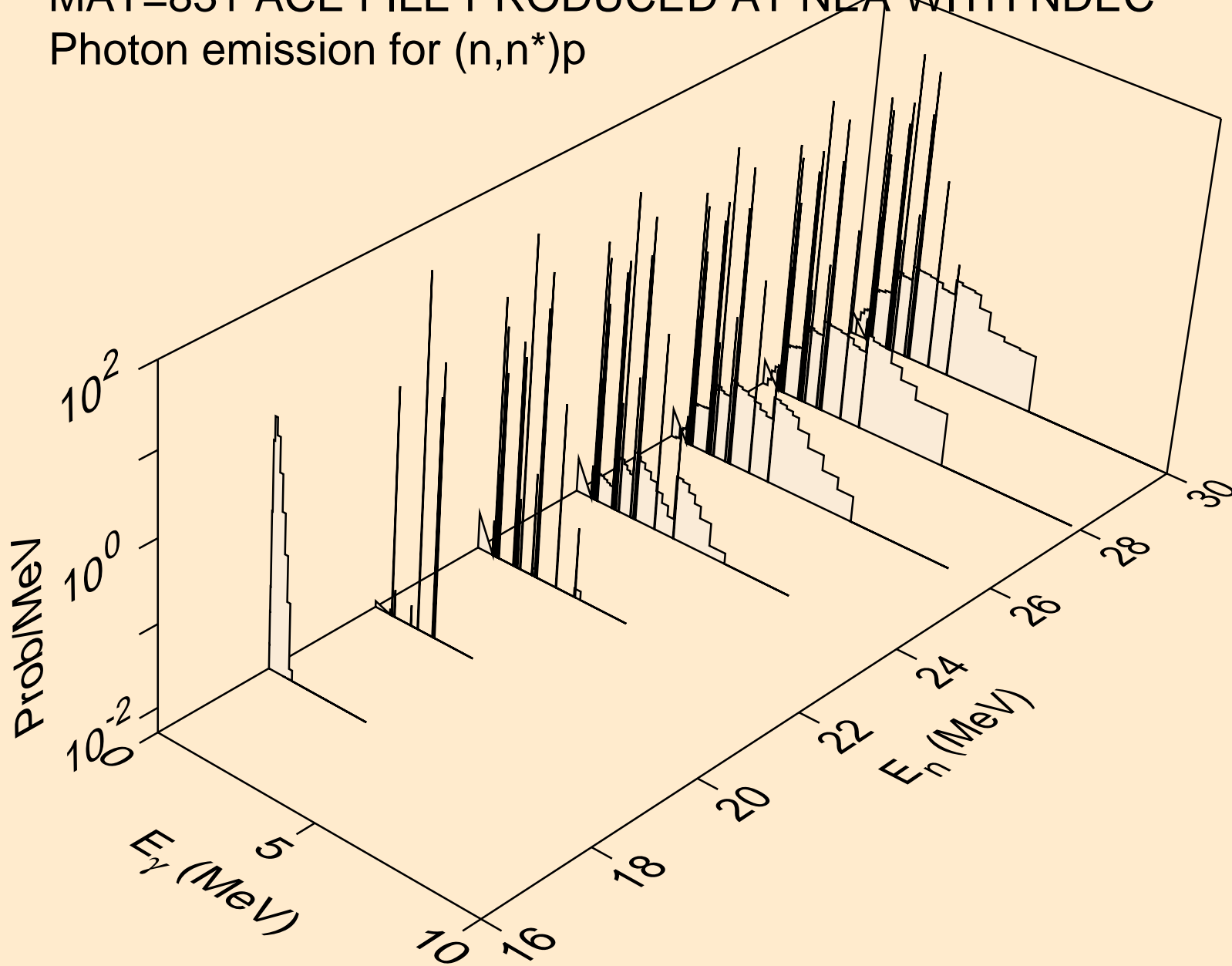
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Photon emission for (n,2n)a



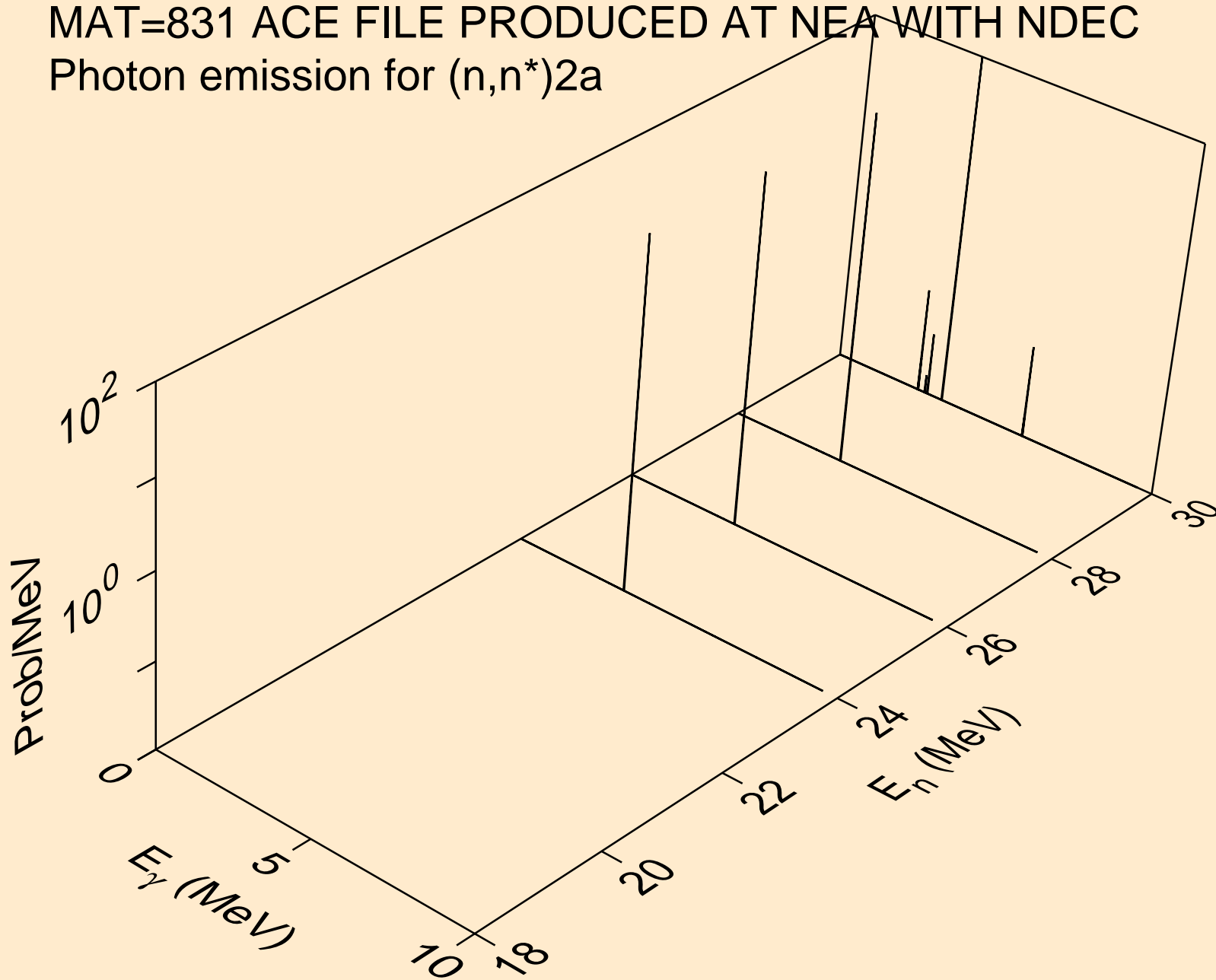
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Photon emission for (n,3n)a



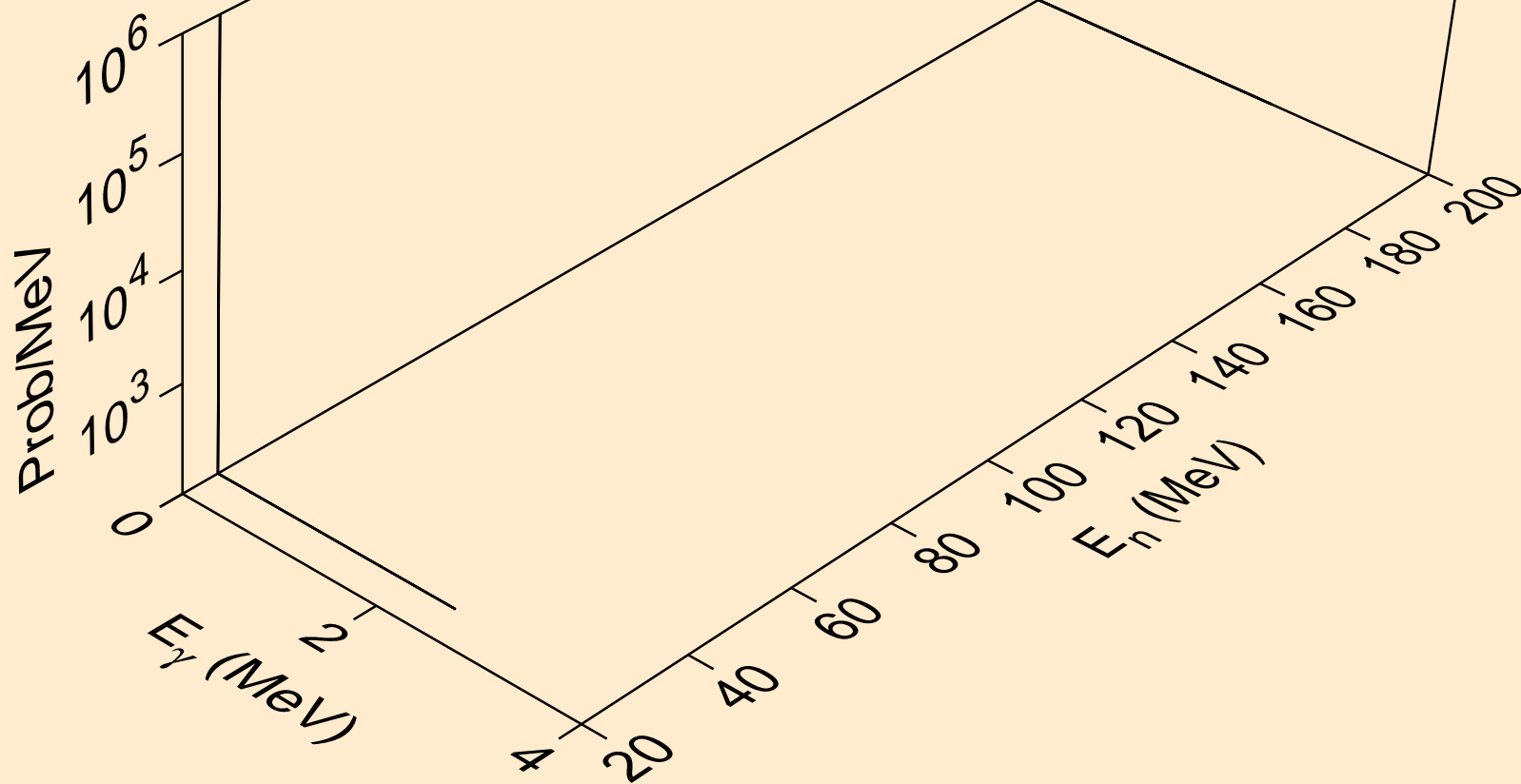
MAT=831 ACE FILE PRODUCED AT NEA WITH NDEC  
Photon emission for (n,n\*)p



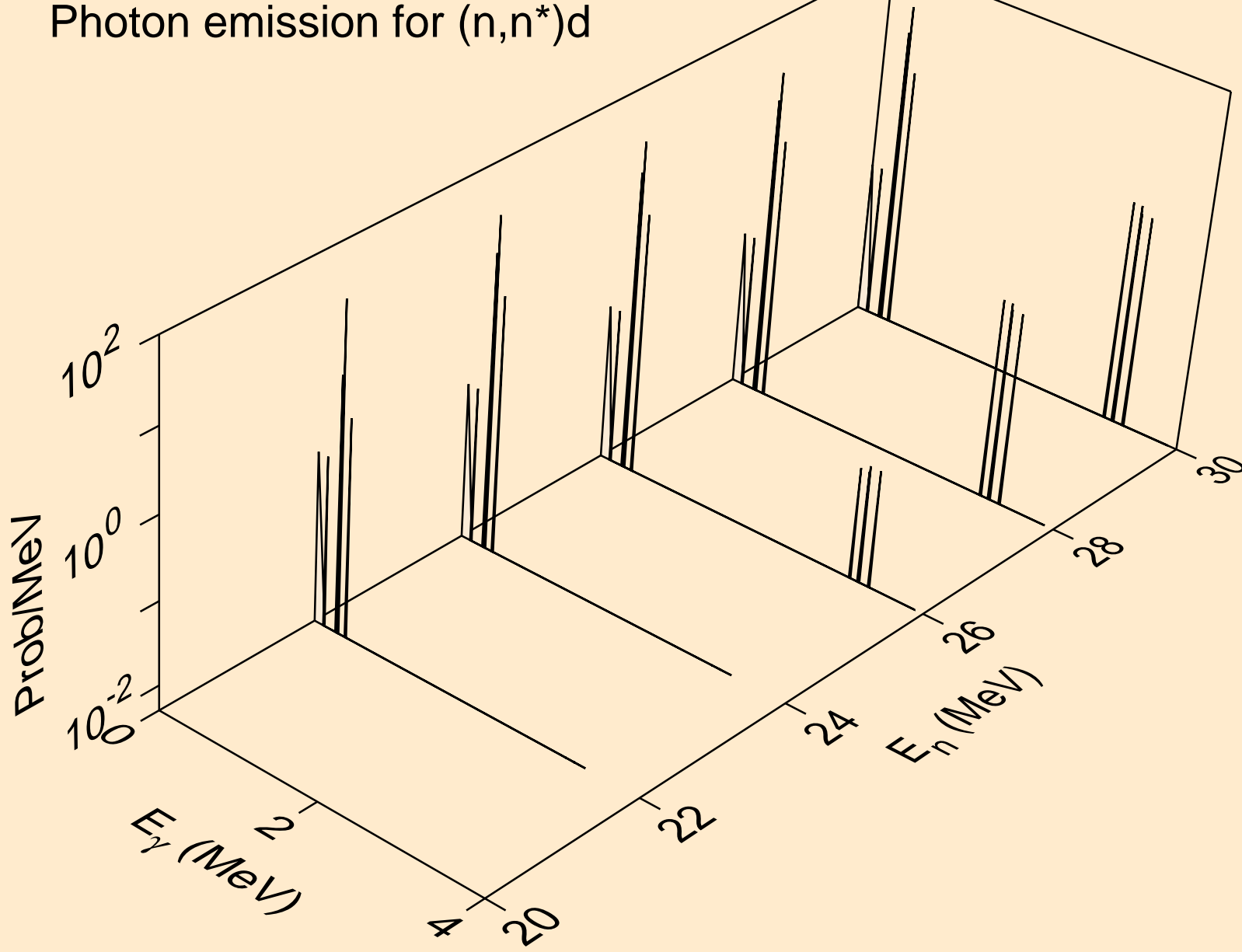
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Photon emission for (n,n\*)2a



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Photon emission for (n,2n)2a

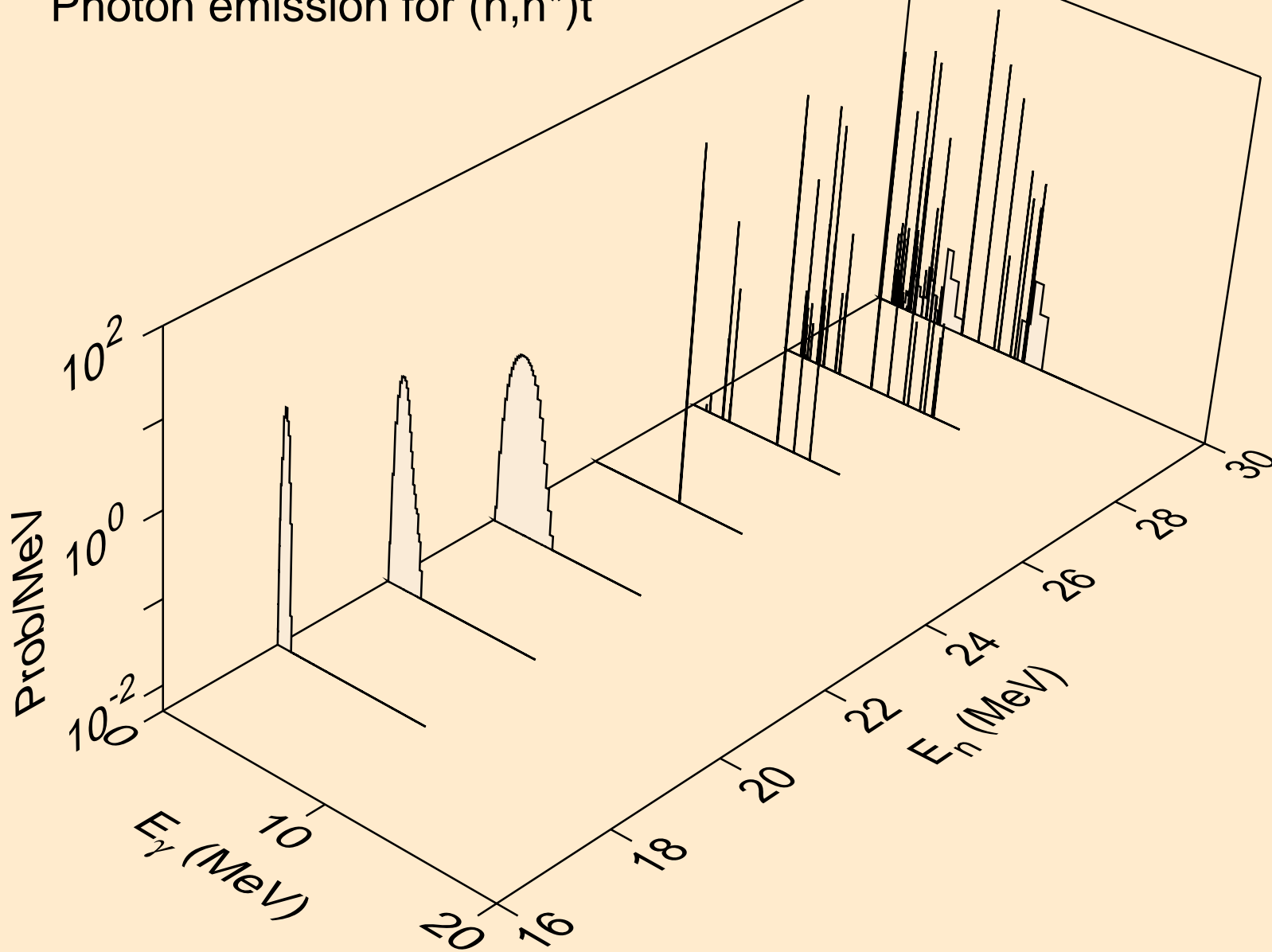


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Photon emission for (n,n\*)d

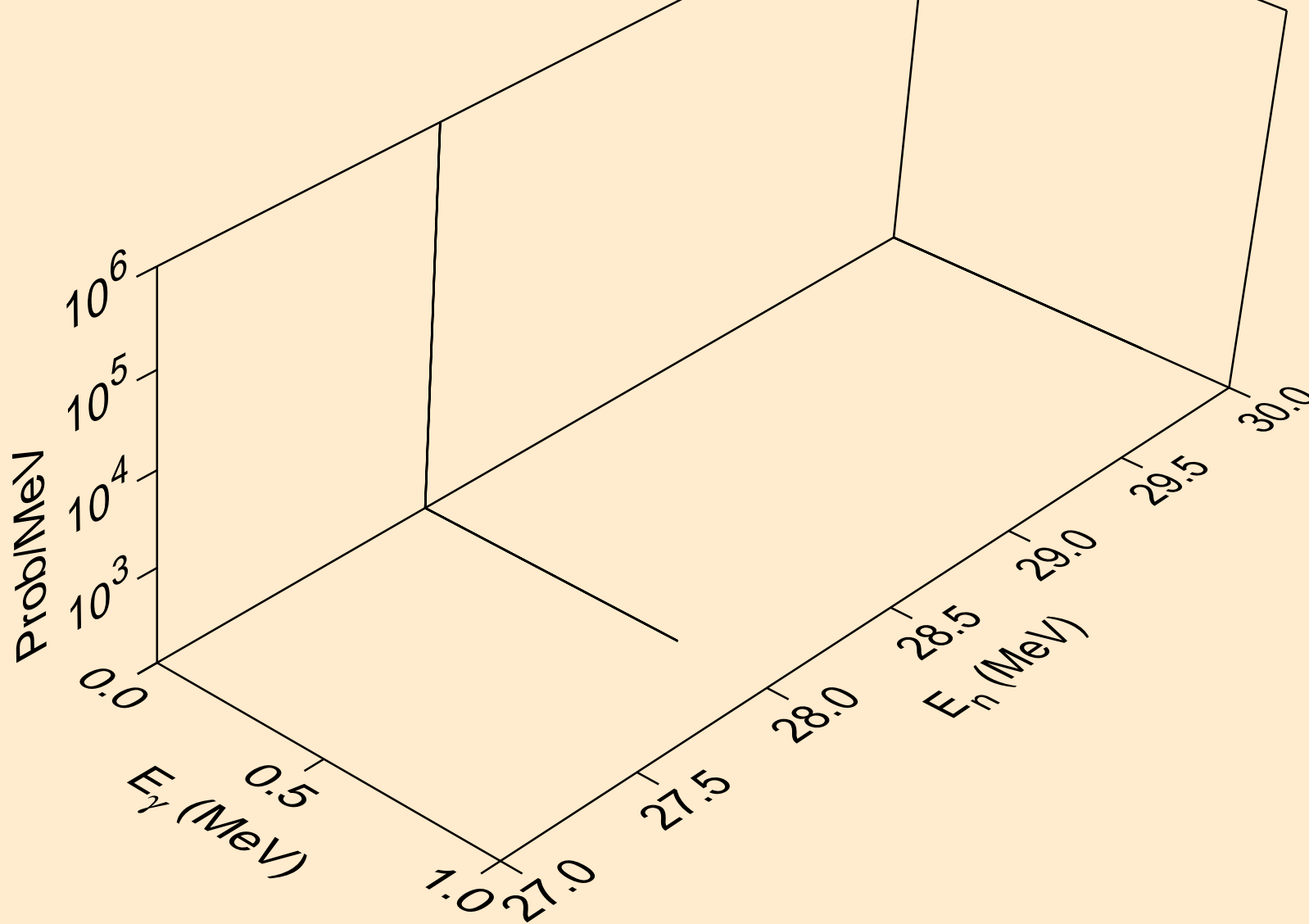




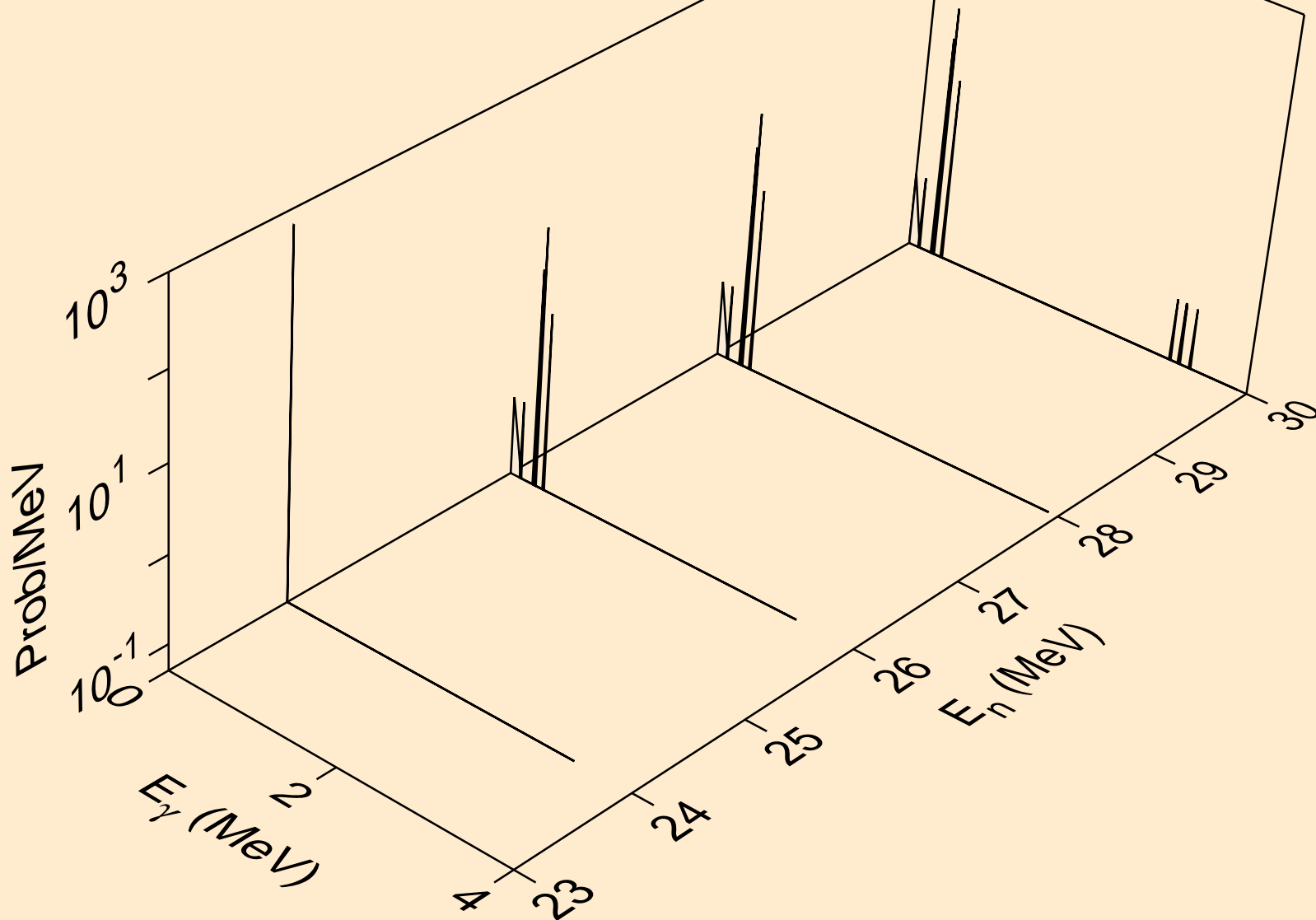
MAT=831 ACE FILE PRODUCED AT NEA WITH NDEC  
Photon emission for (n,n\*)t



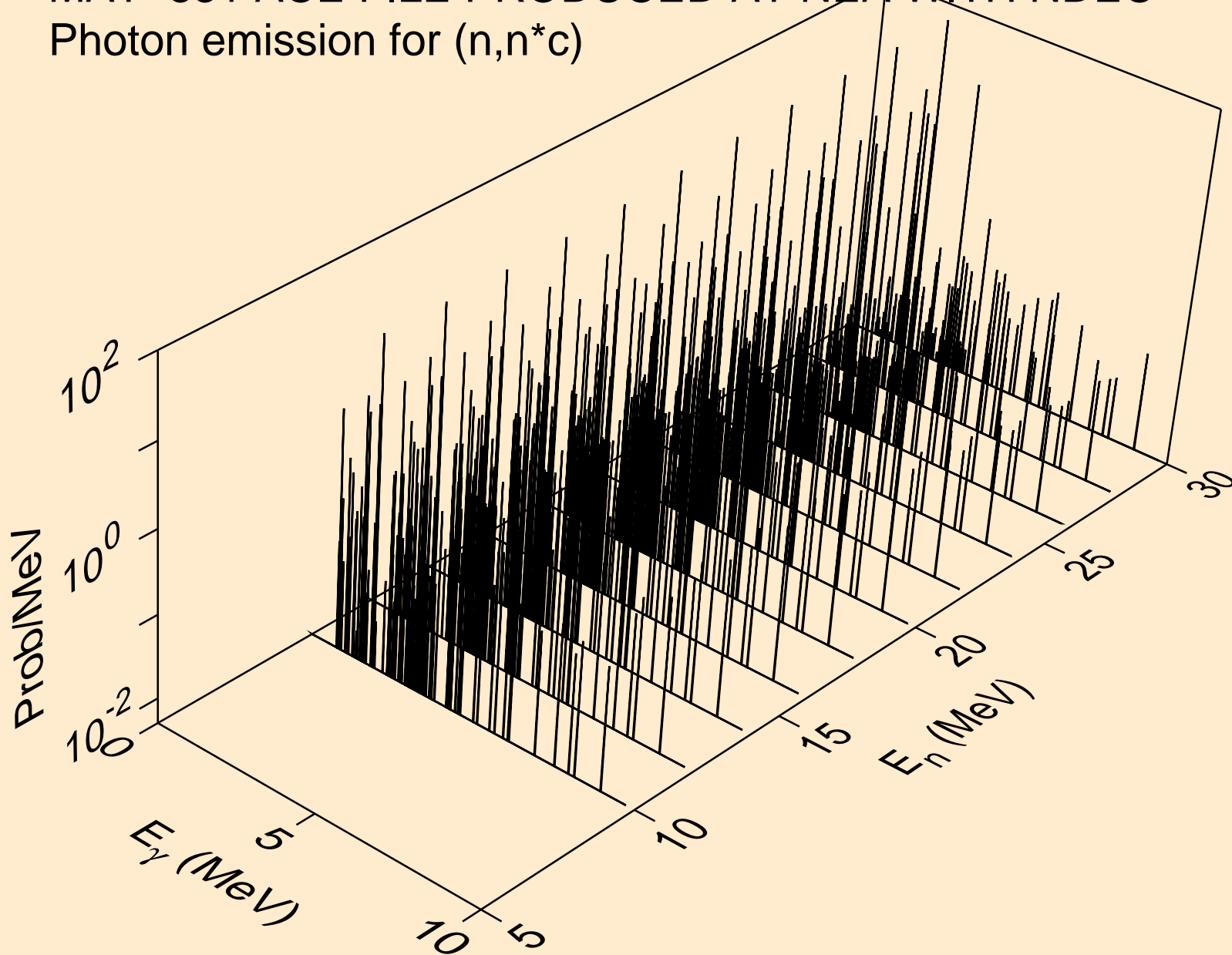
MAT=831 ACE FILE PRODUCED AT NEA WITH NDEC  
Photon emission for (n,n\*)he3



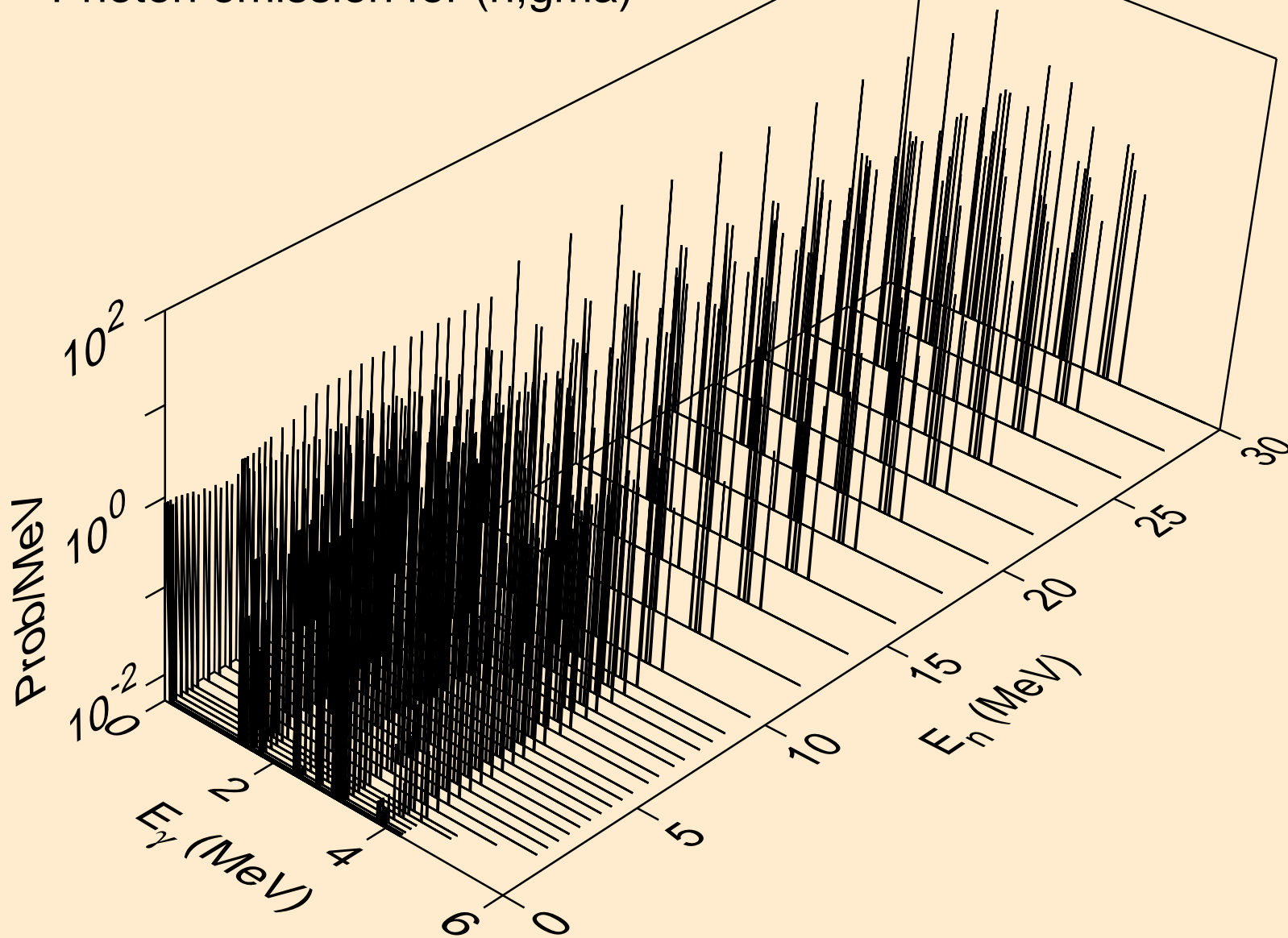
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Photon emission for (n,2np)



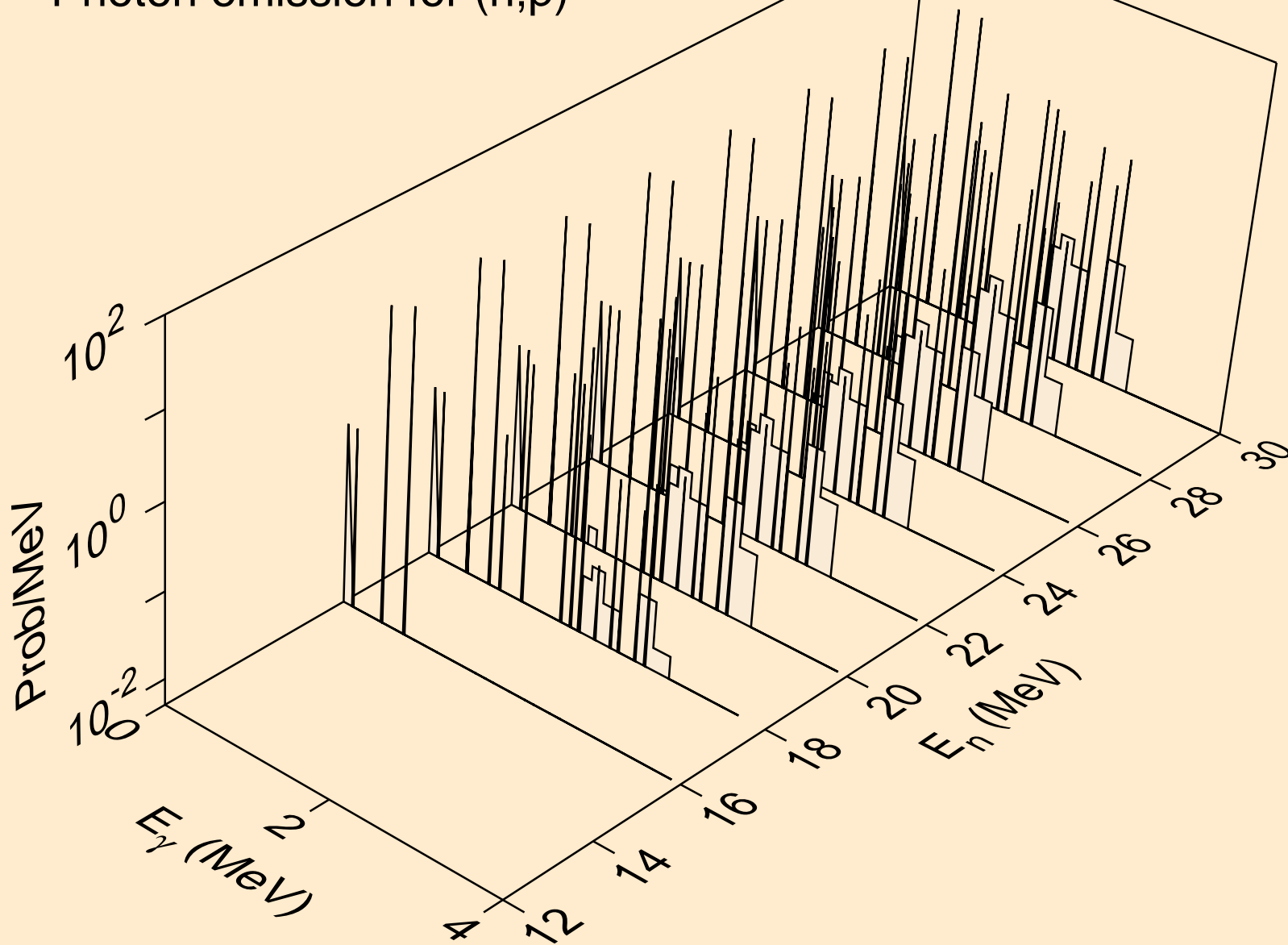
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Photon emission for (n,n\*c)



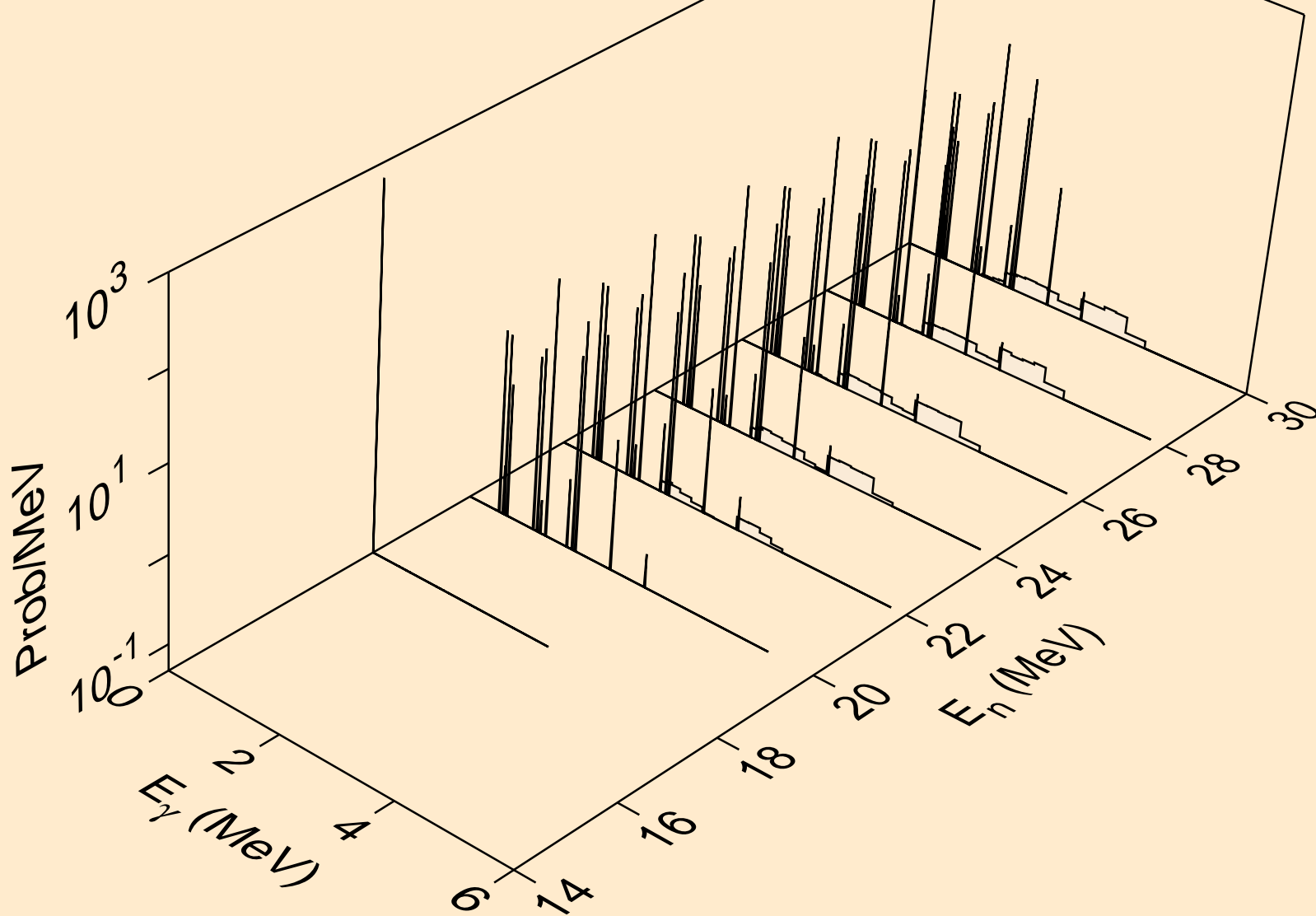
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Photon emission for (n,gma)



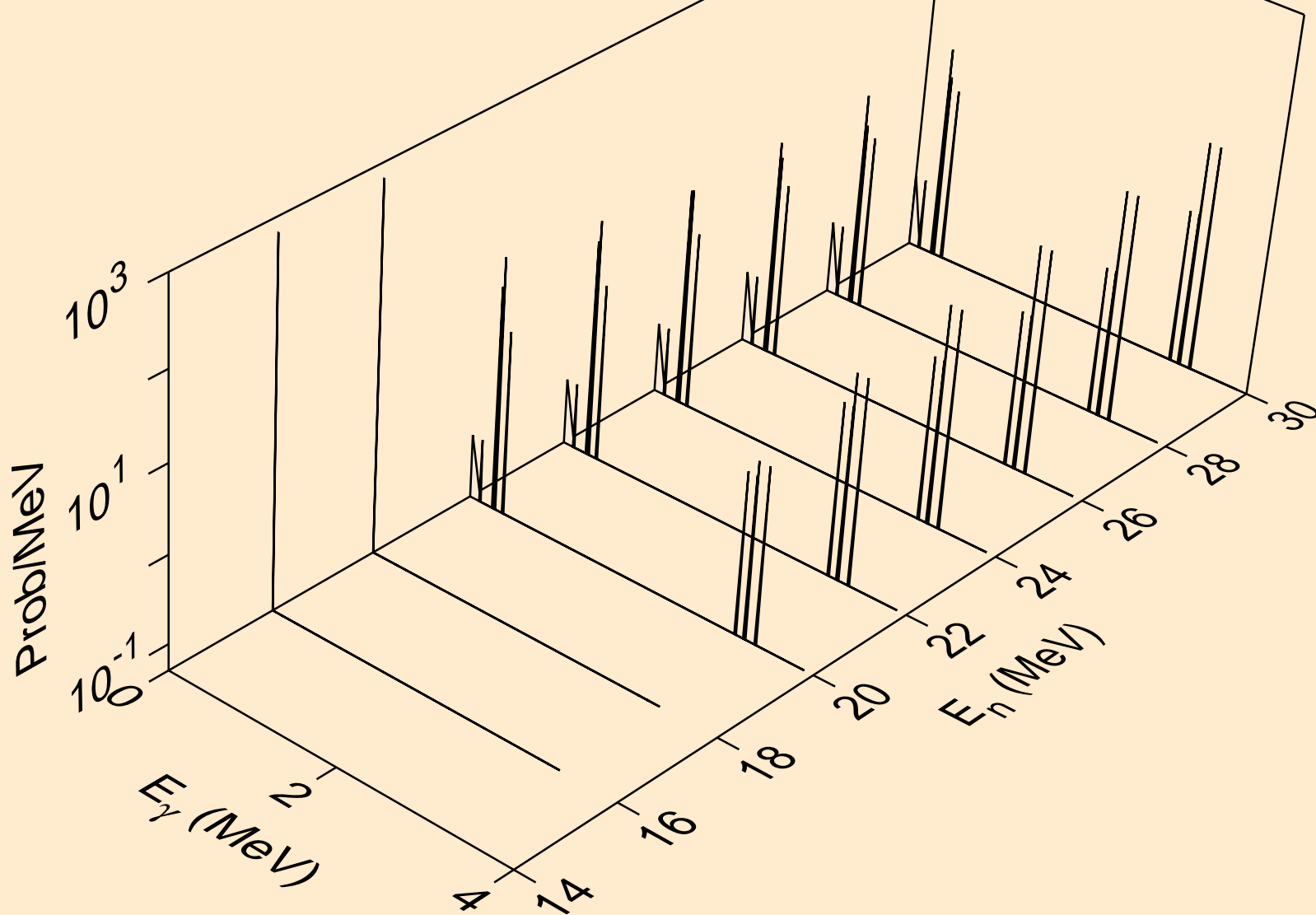
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Photon emission for (n,p)



MAT=831 ACE FILE PRODUCED AT NEA WITH NDEC  
Photon emission for (n,d)

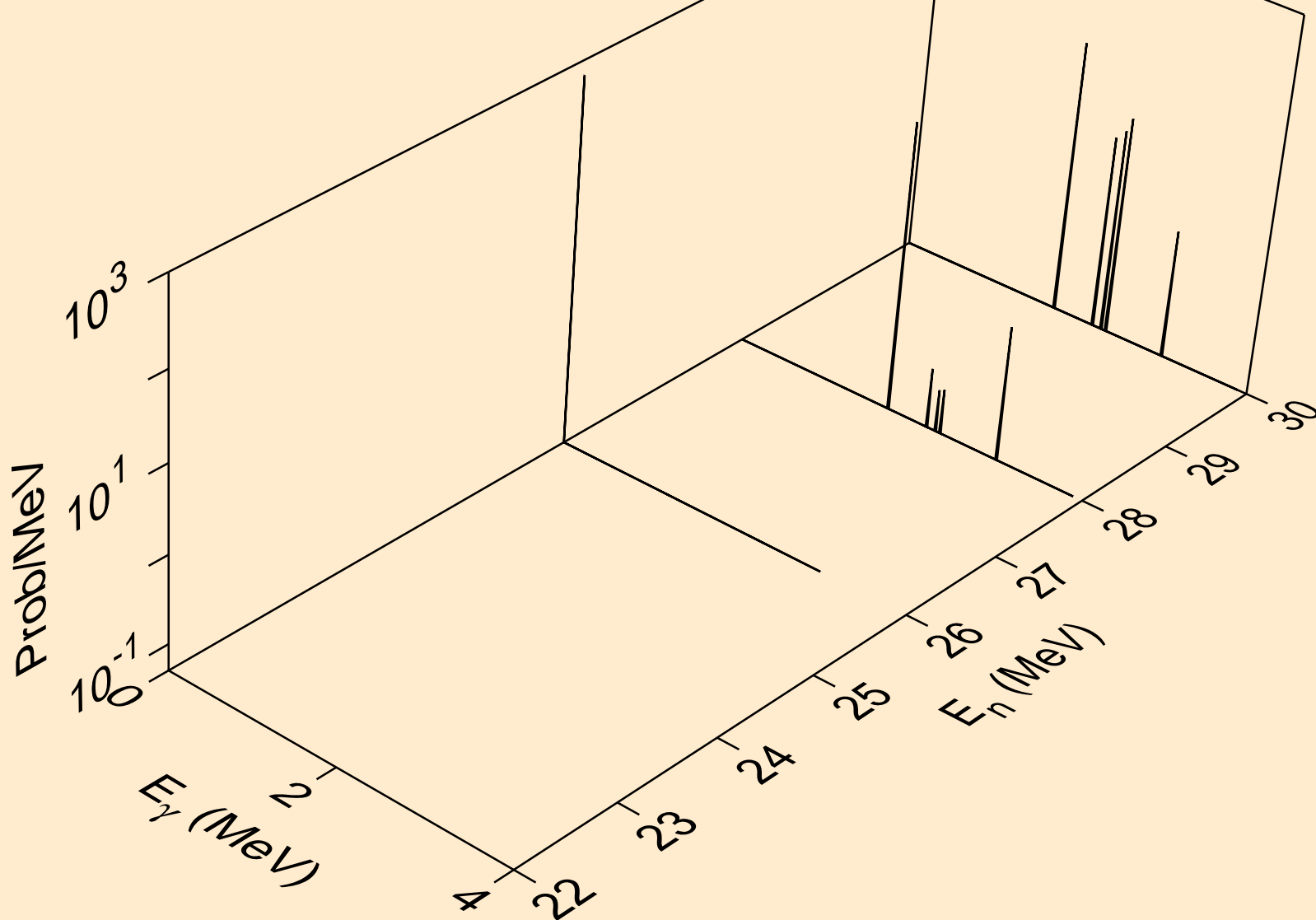


MAT=831 ACE FILE PRODUCED AT NEA WITH NDEC  
Photon emission for (n,t)

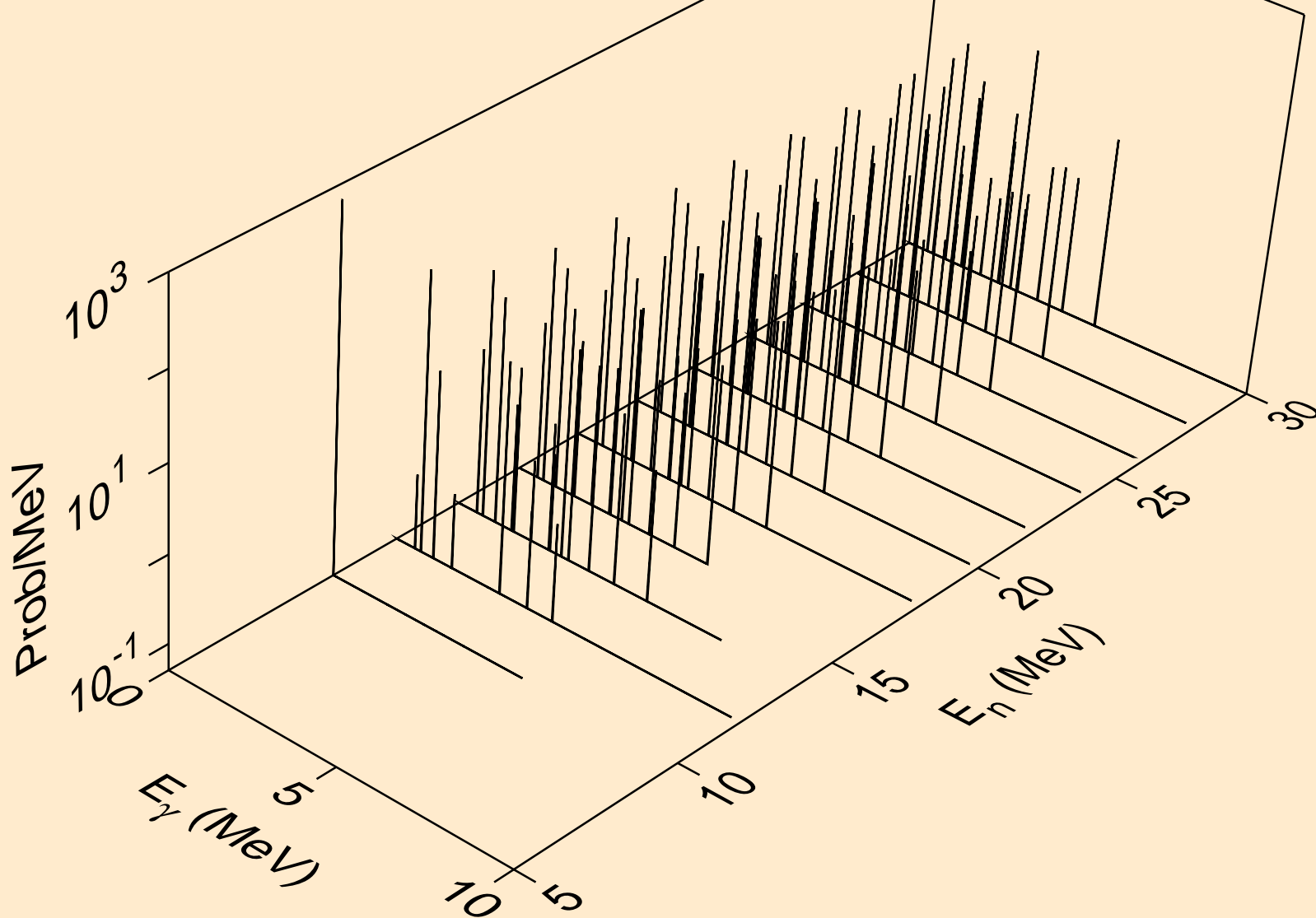




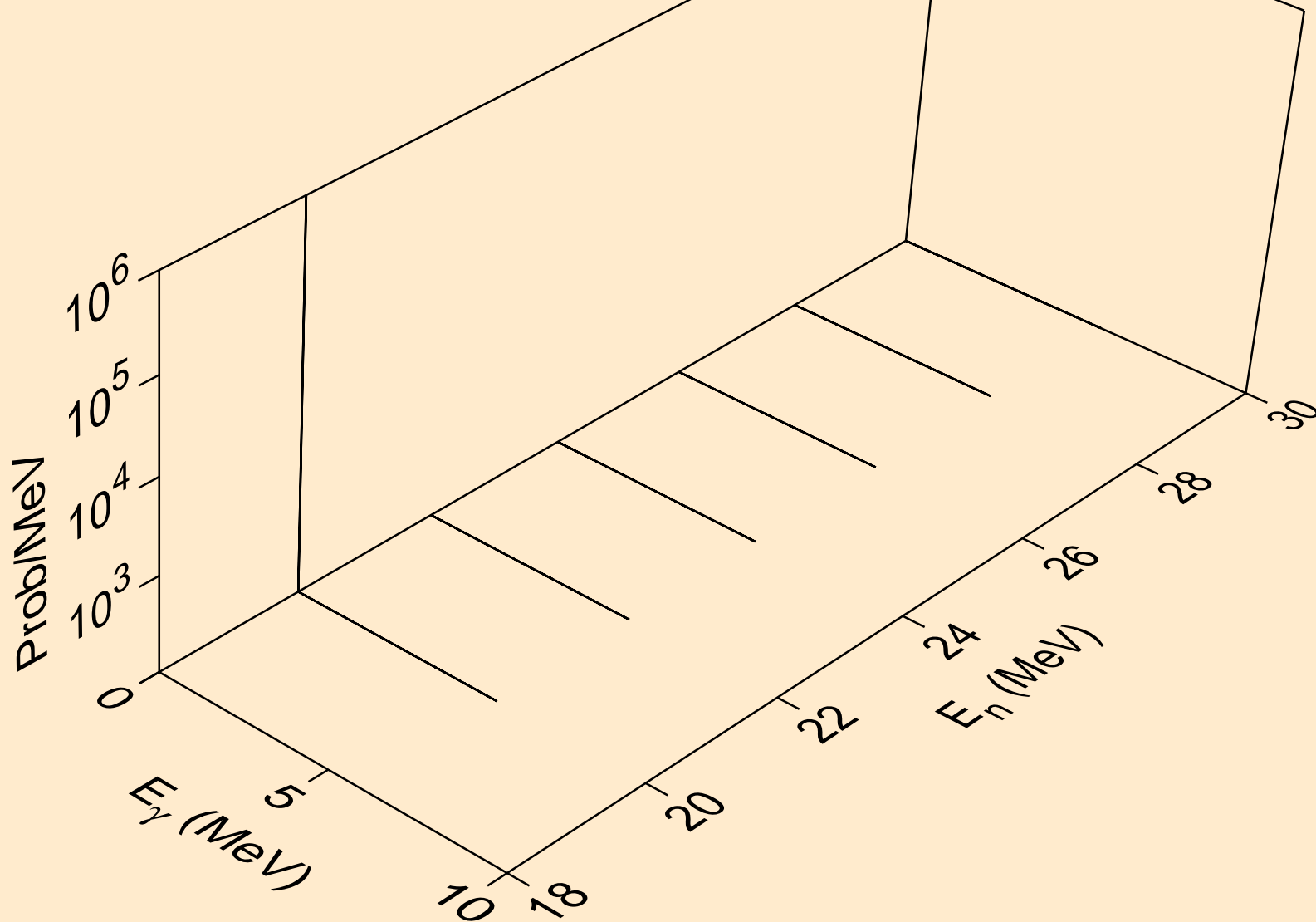
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Photon emission for (n,he3)



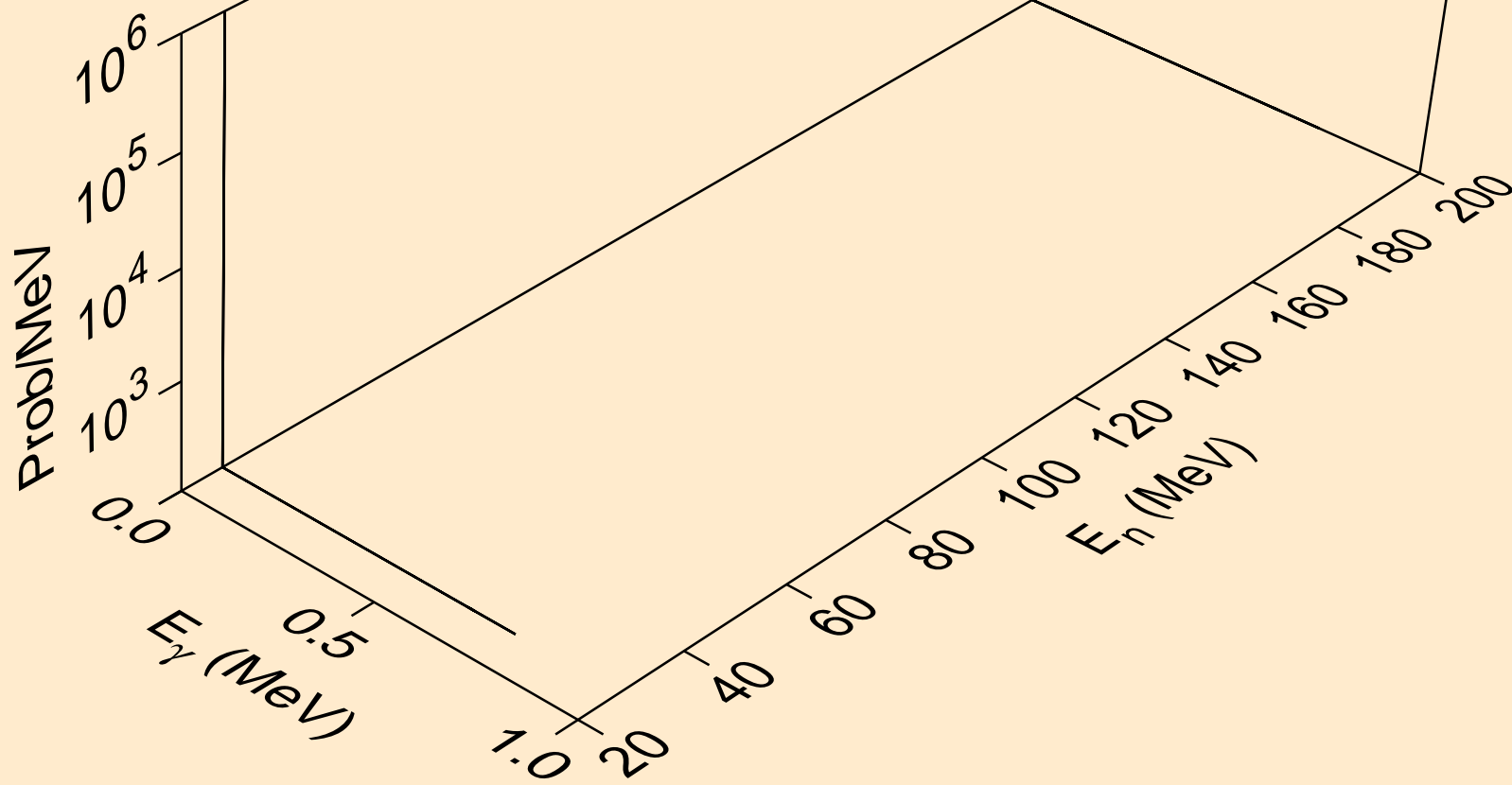
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Photon emission for (n,a)



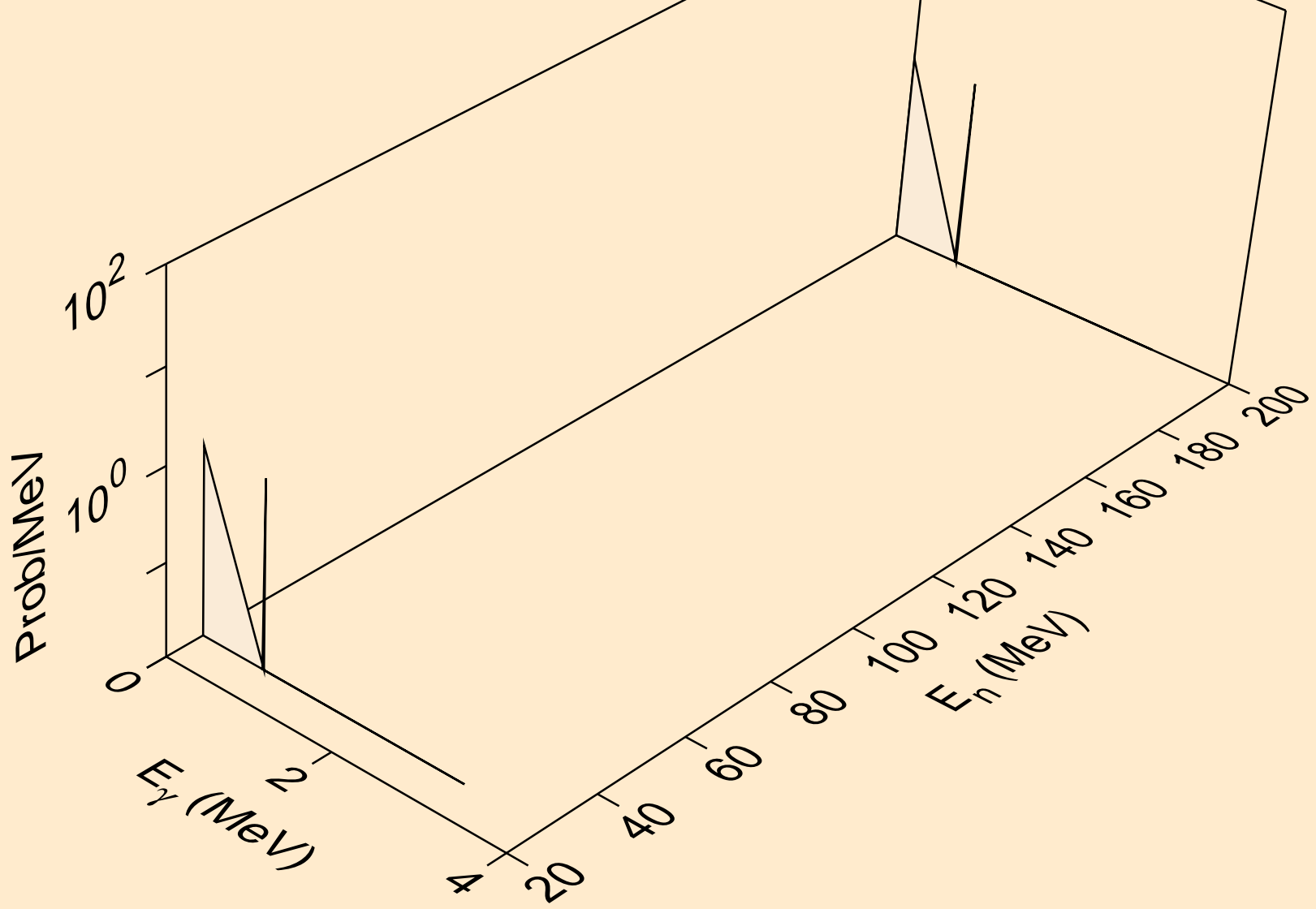
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Photon emission for (n,2a)



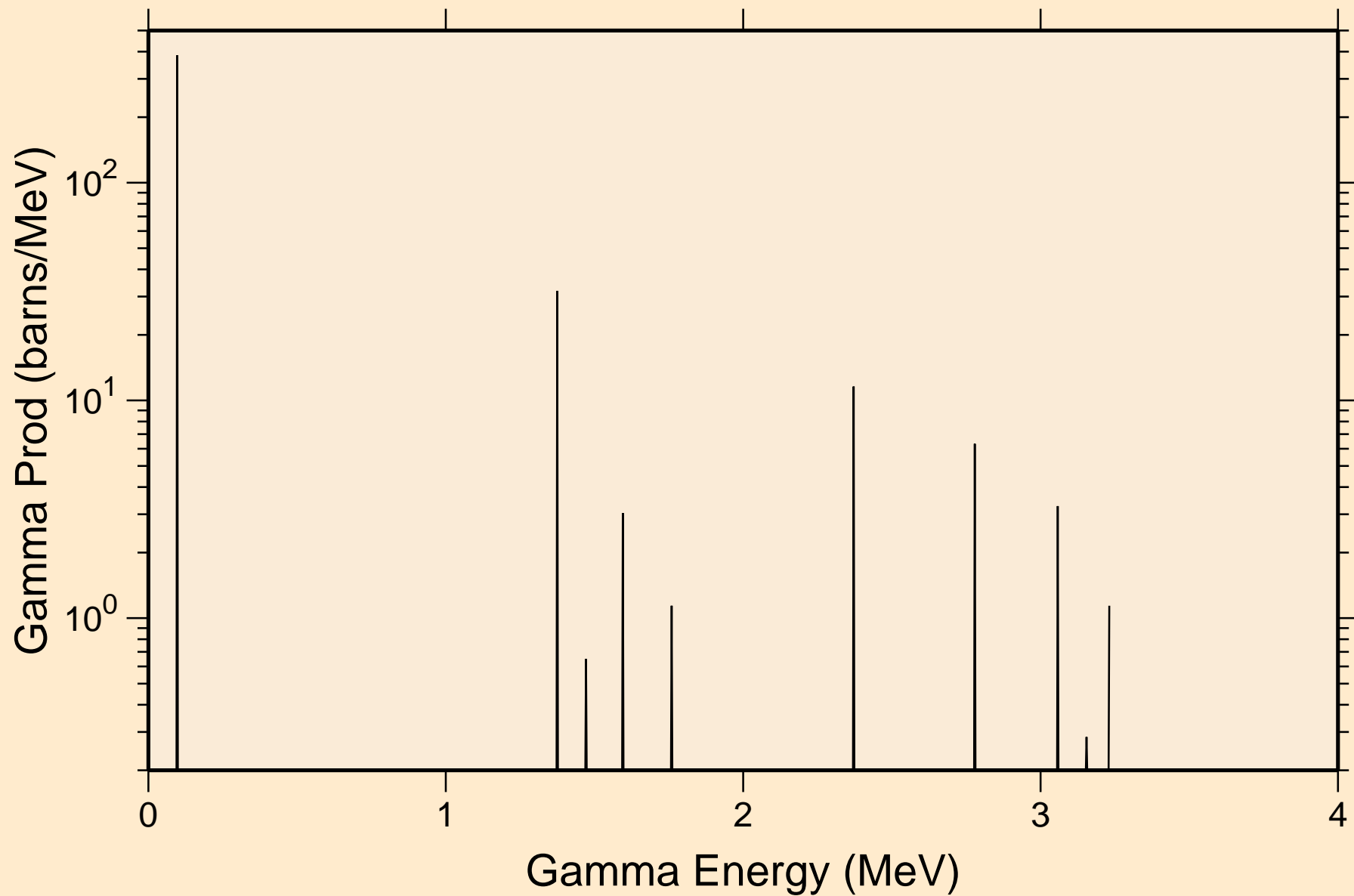
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Photon emission for (n,pa)



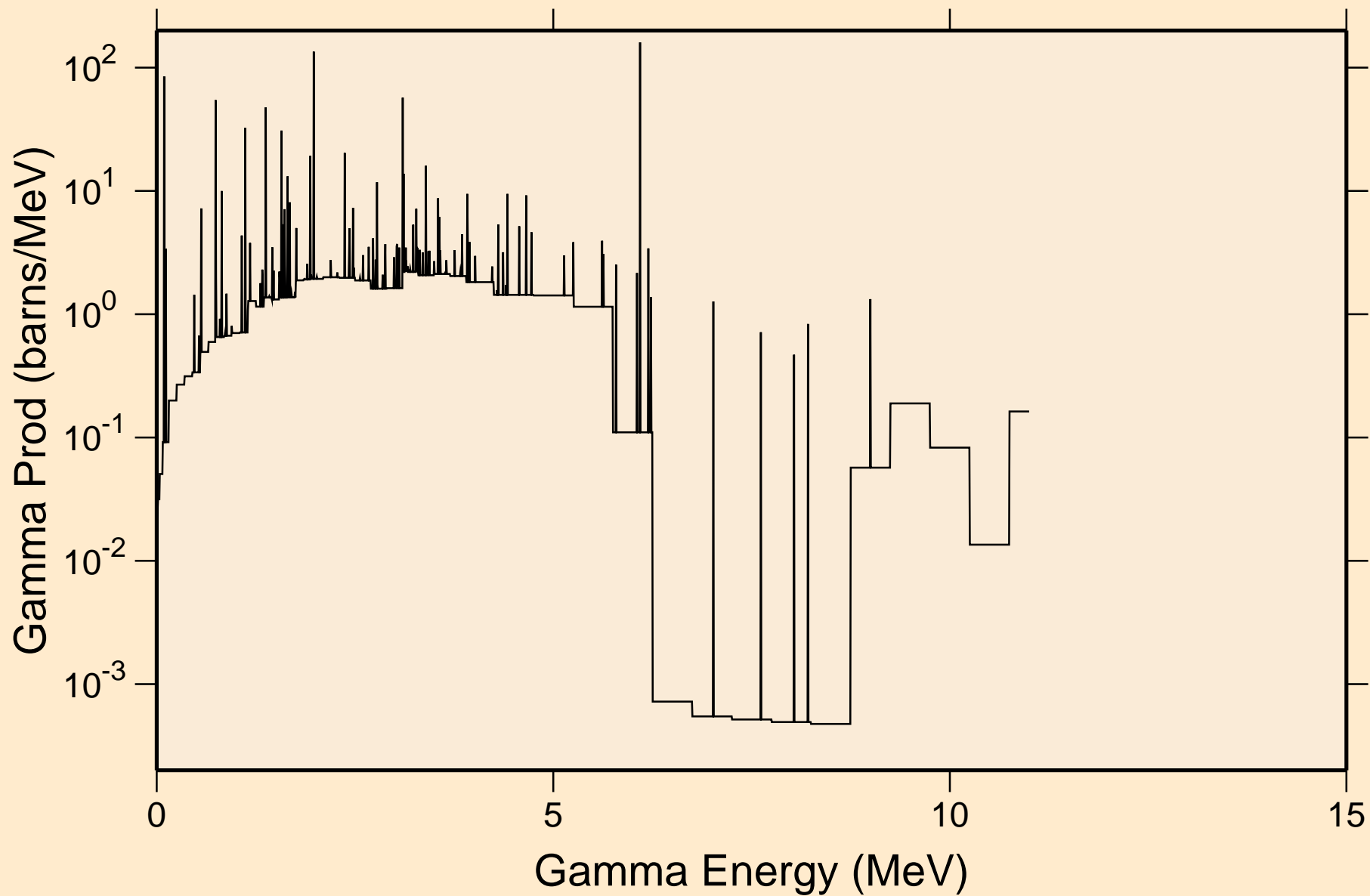
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Photon emission for (n,pt)



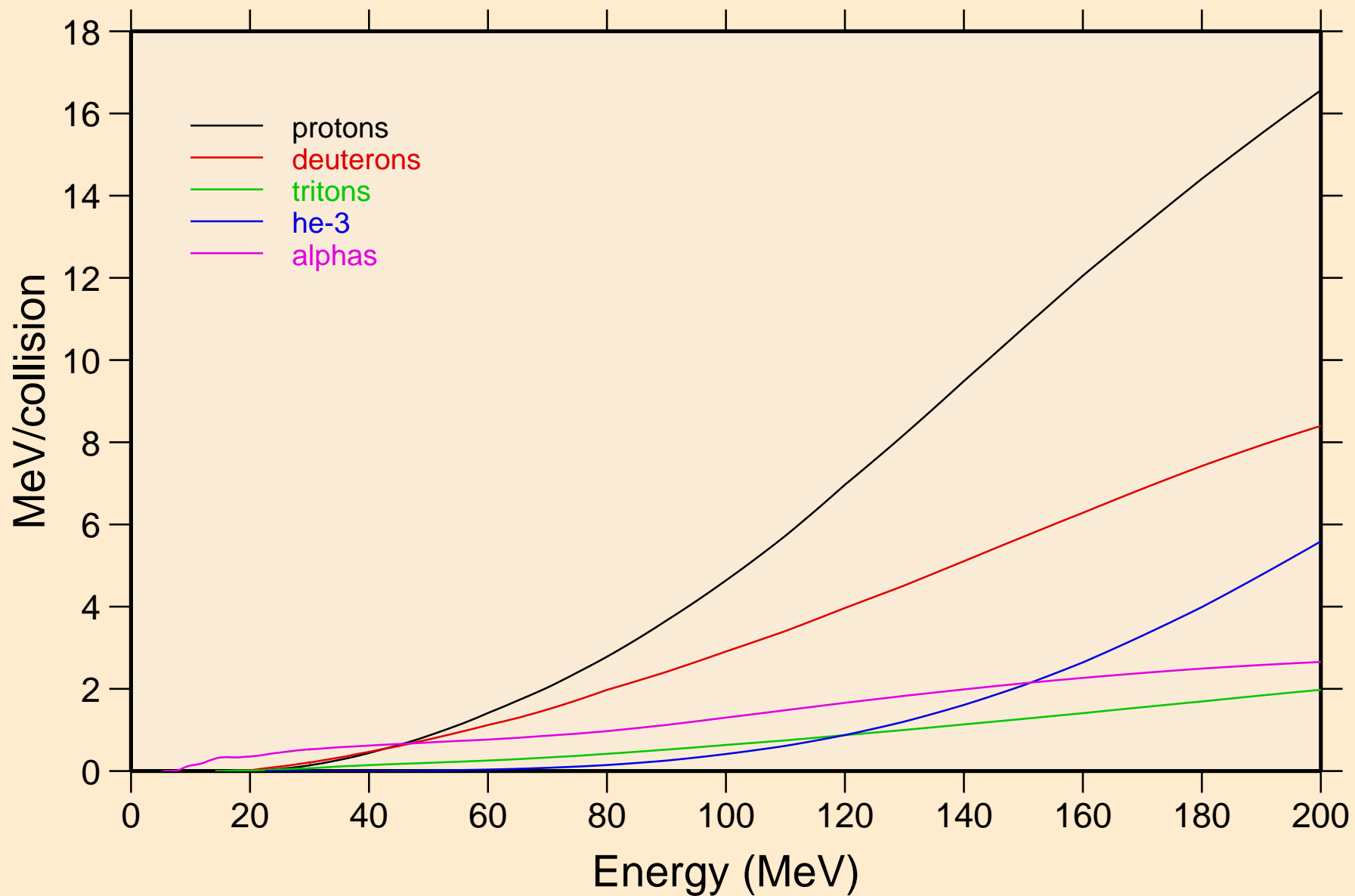
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thermal capture photon spectrum



MAT=831 ACE FILE PRODUCED AT NEA WITH NDEC  
14 MeV photon spectrum

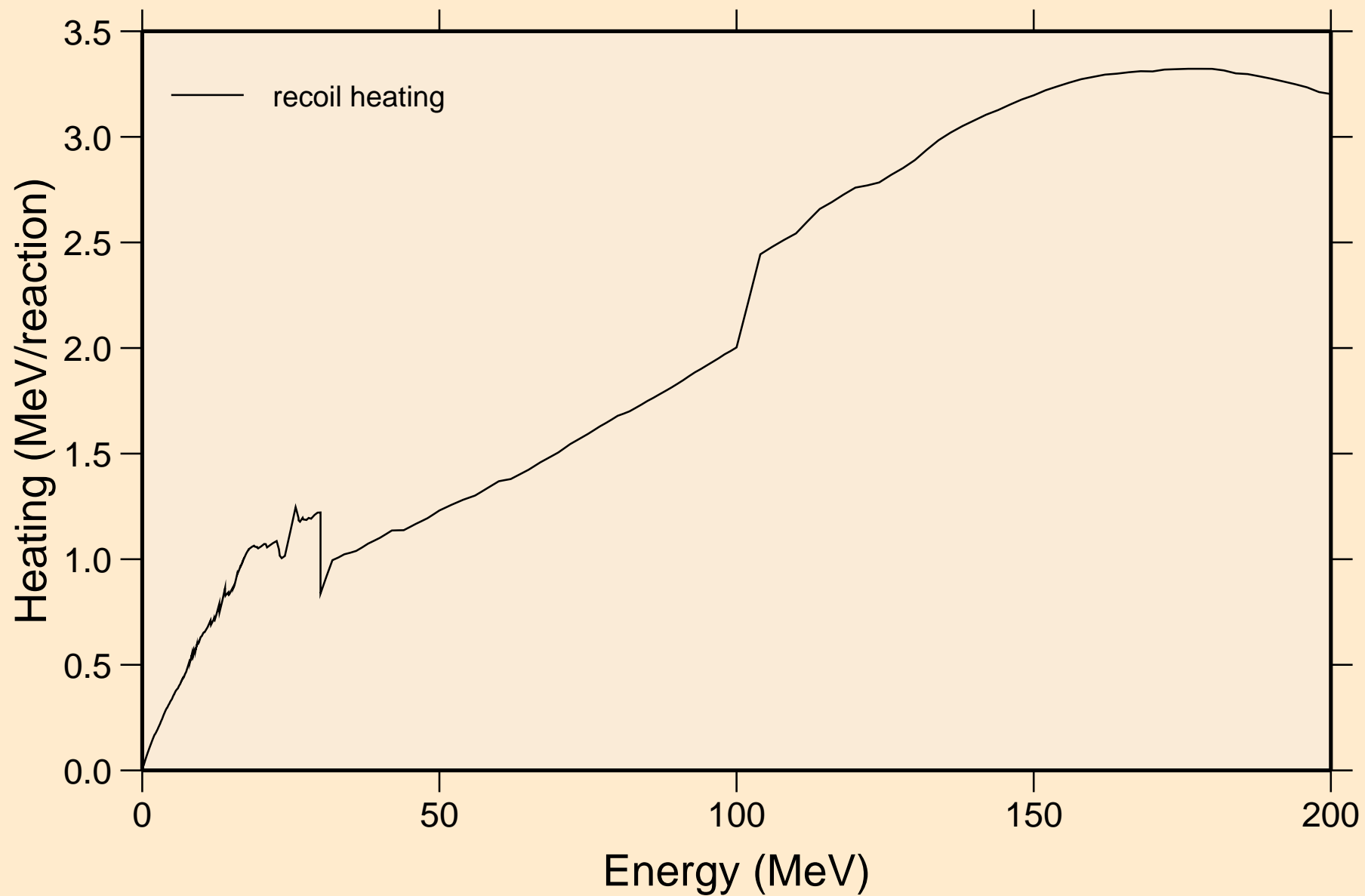


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Particle heating contributions



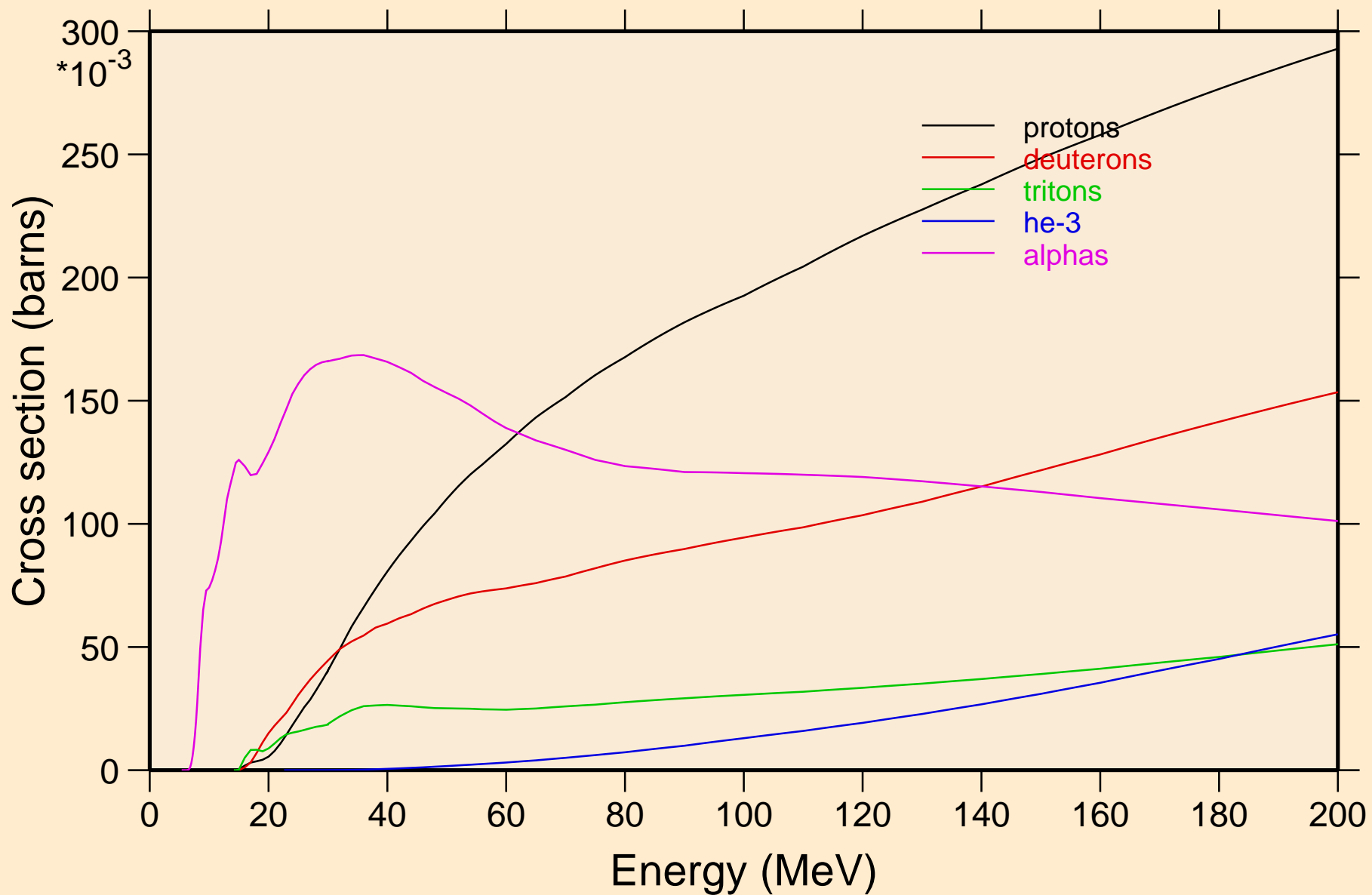


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Recoil Heating

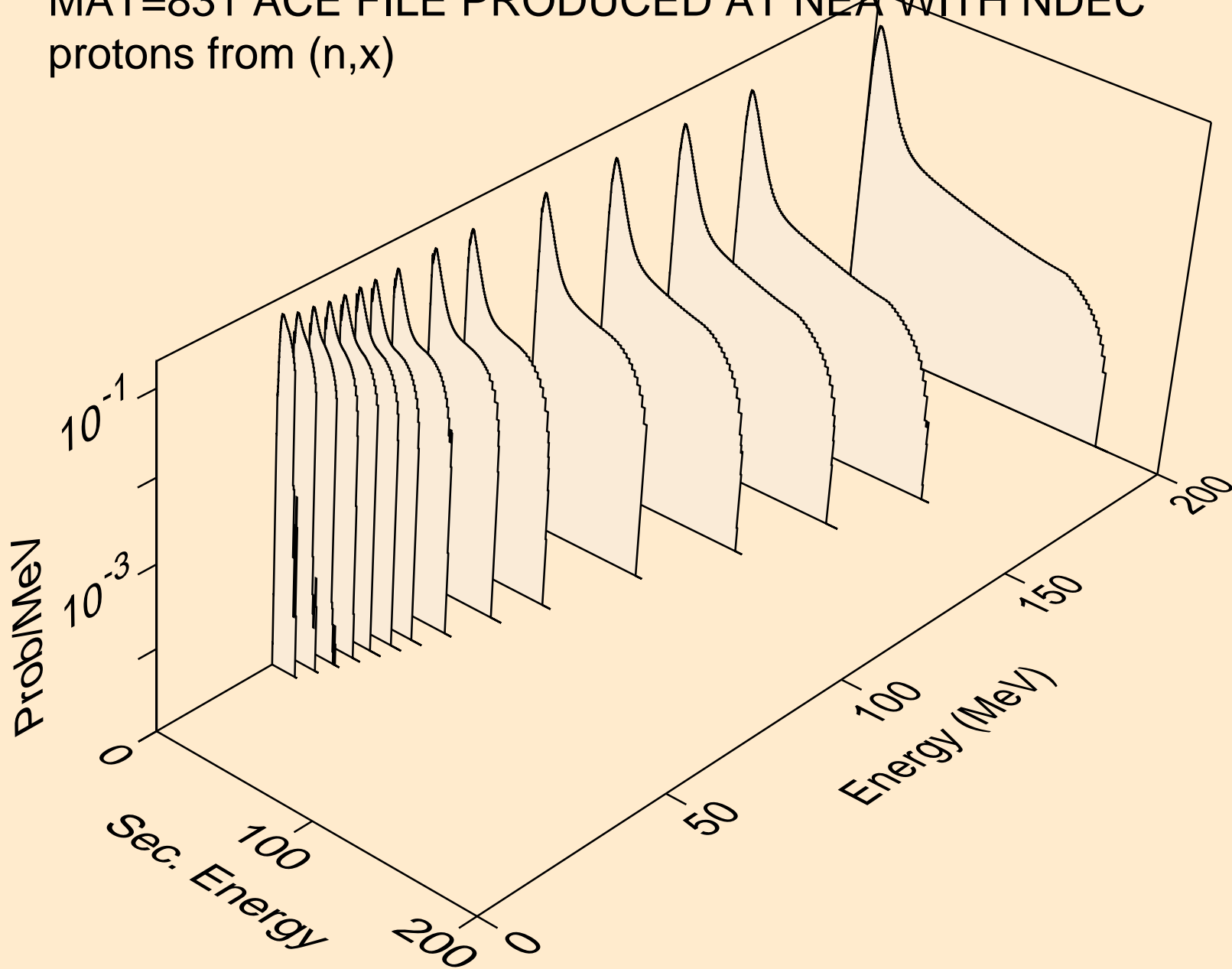


# MAT=831 ACE FILE PRODUCED AT NEA WITH NDEC

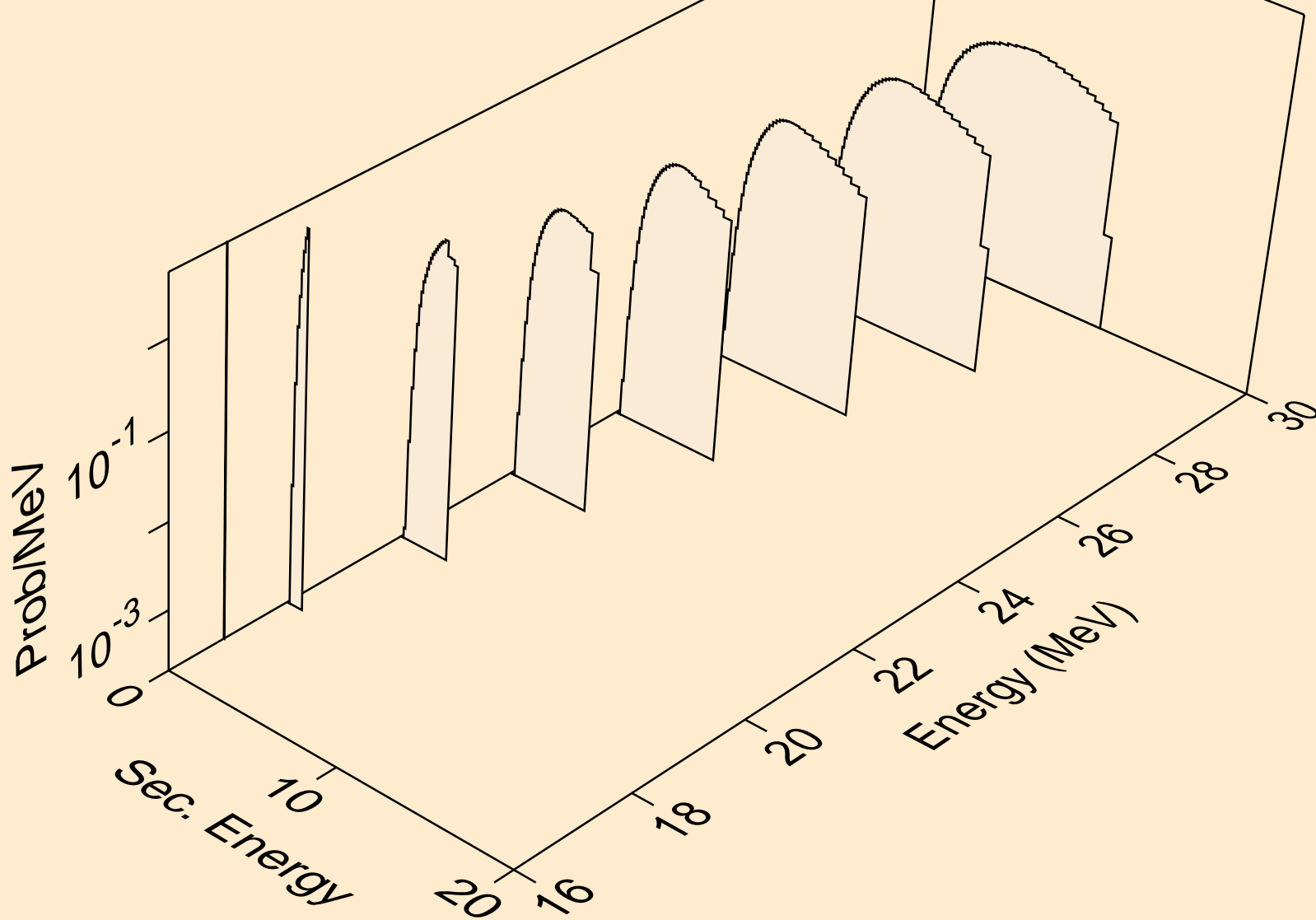
## Particle production cross sections



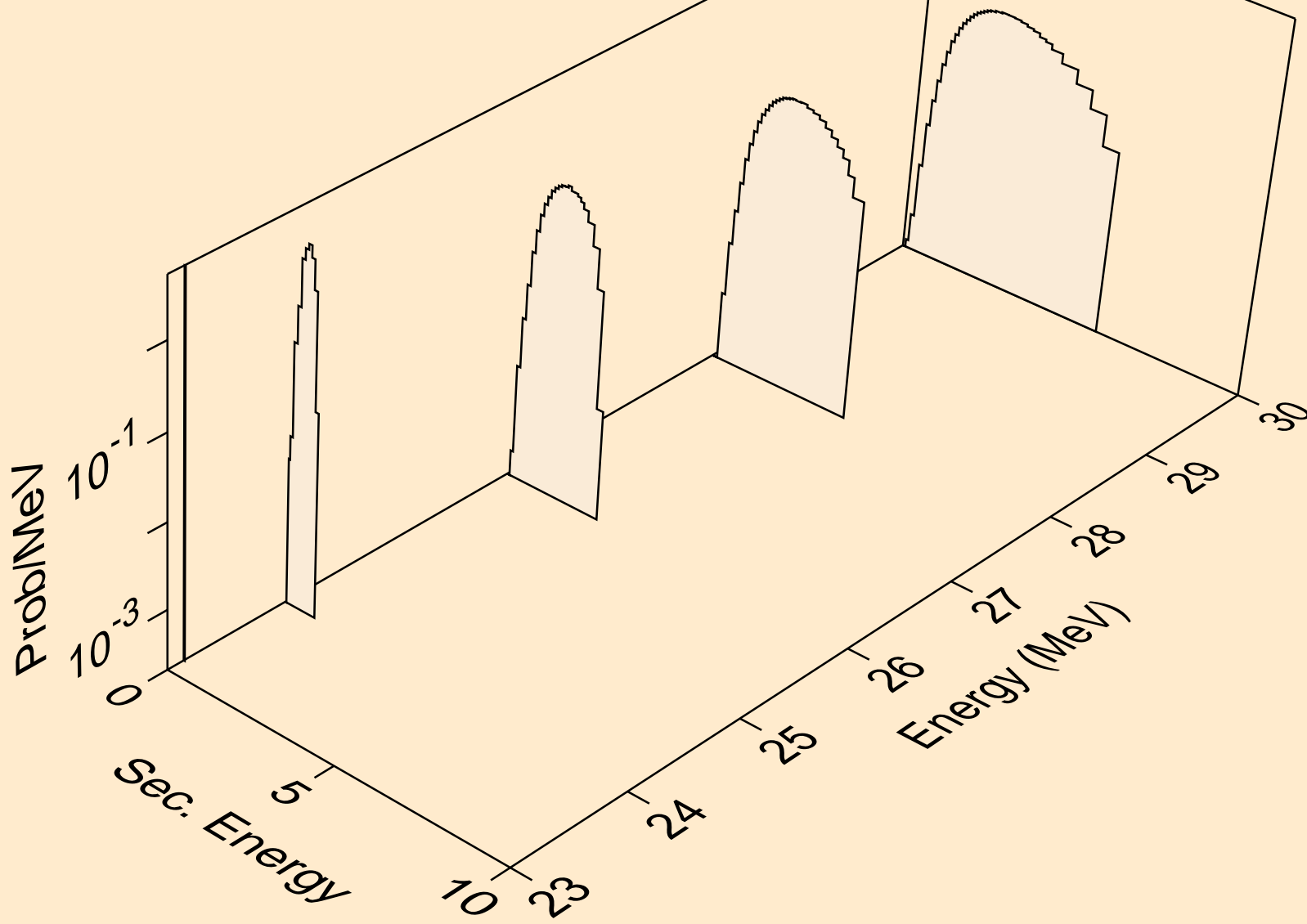
MAT=831 ACE FILE PRODUCED AT NEA WITH NDEC  
protons from (n,x)



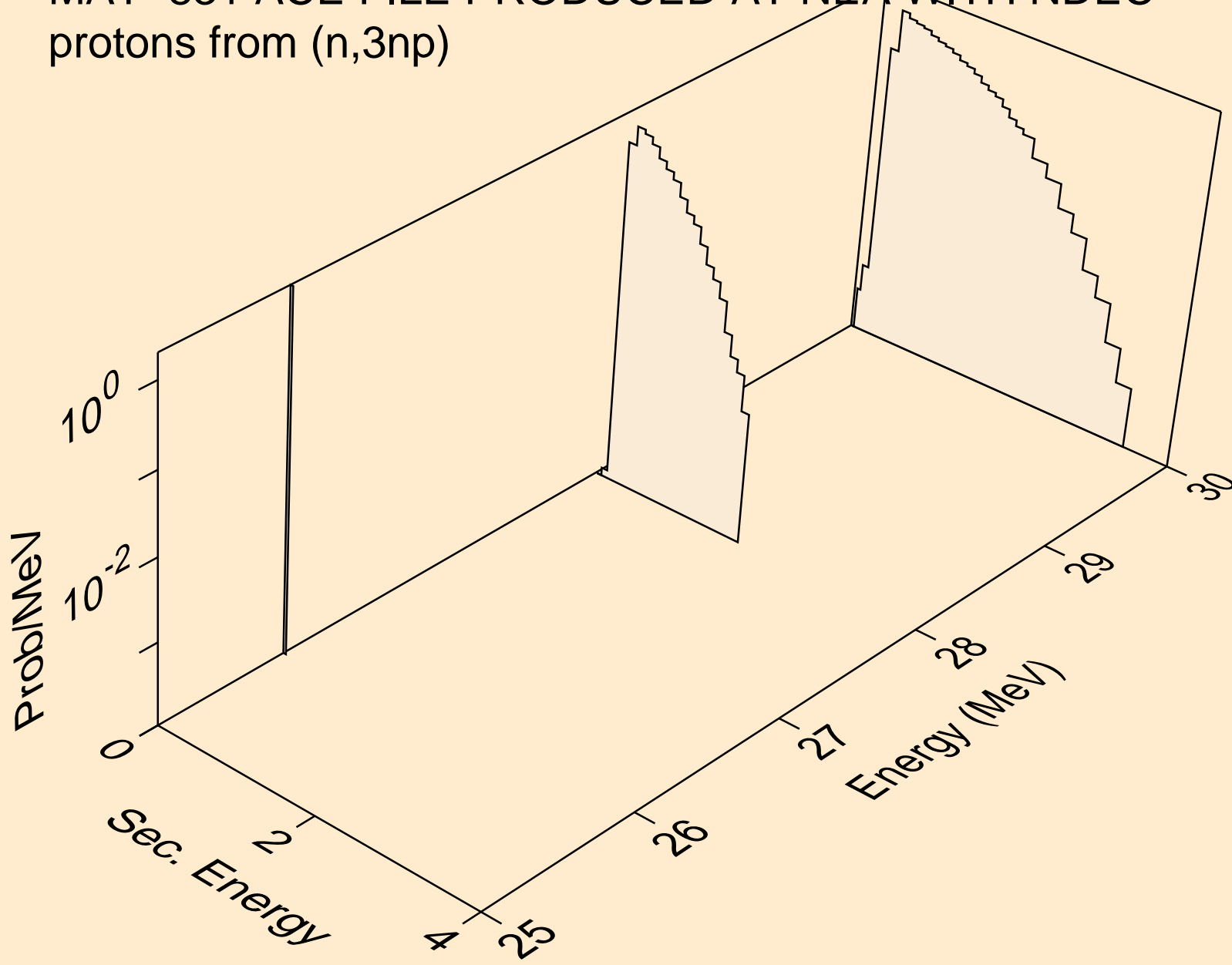
MAT=831 ACE FILE PRODUCED AT NEA WITH NDEC  
protons from (n,n\*)p



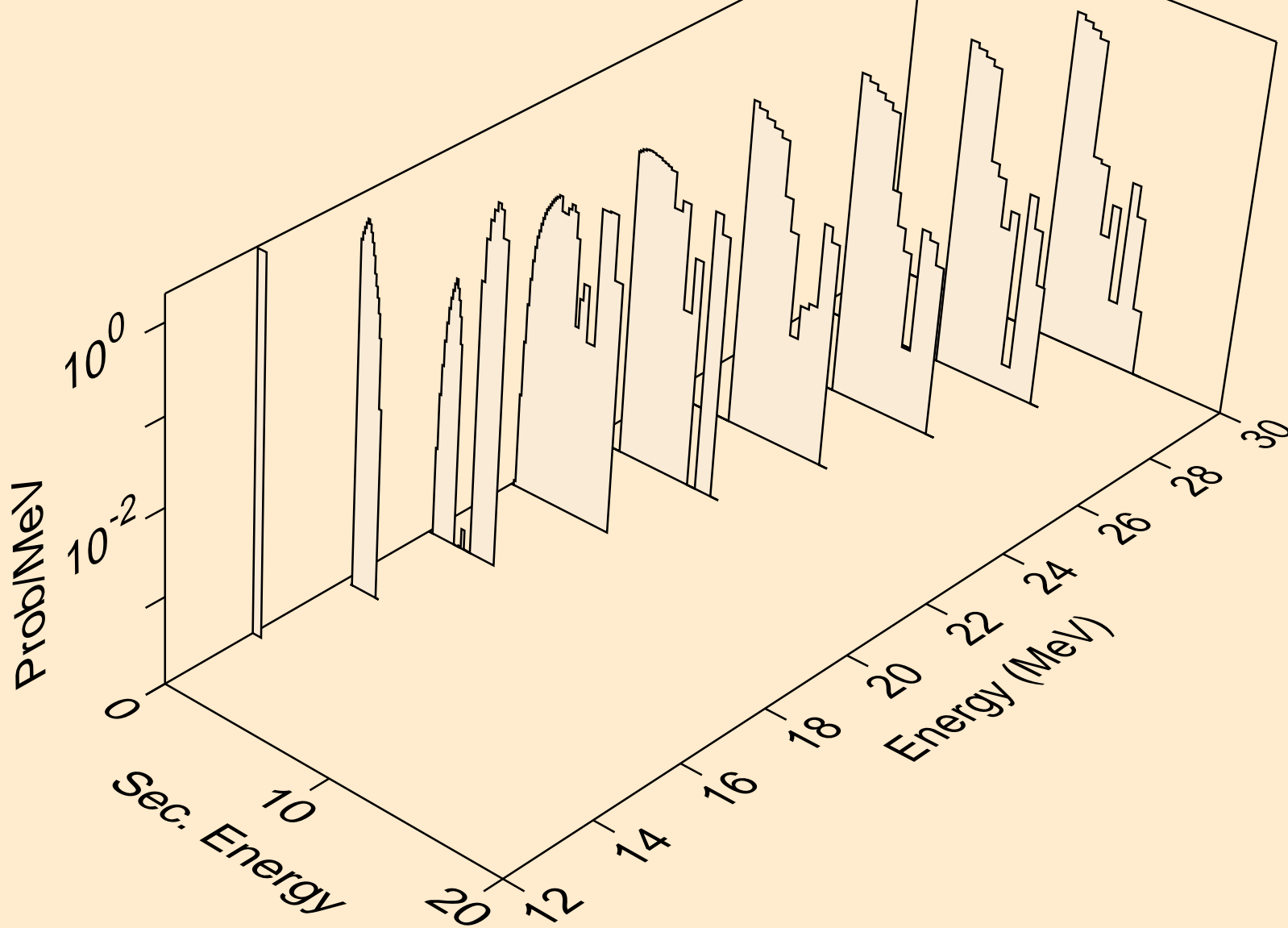
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protons from (n,2np)



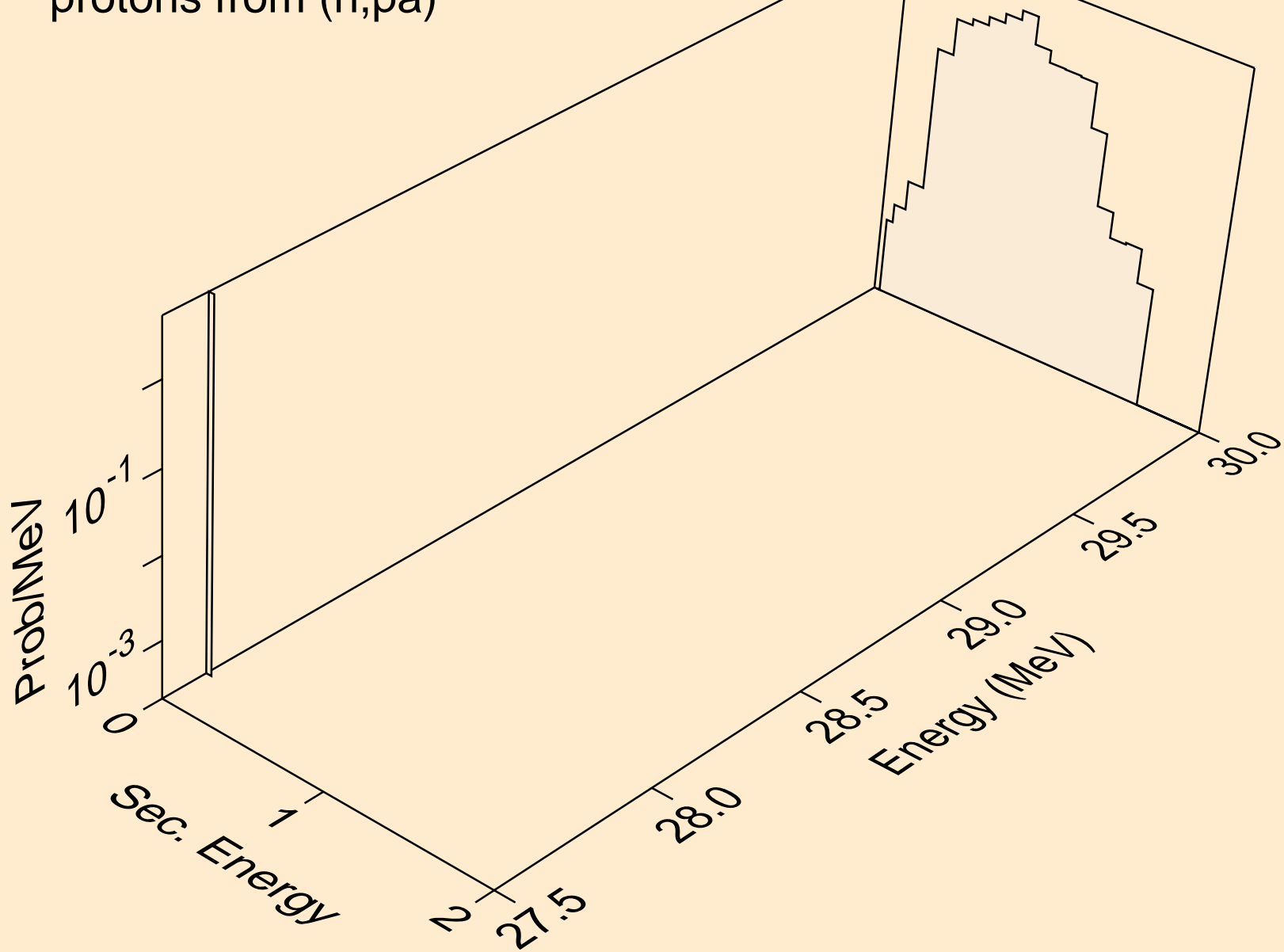
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protons from (n,3np)



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protons from (n,p)

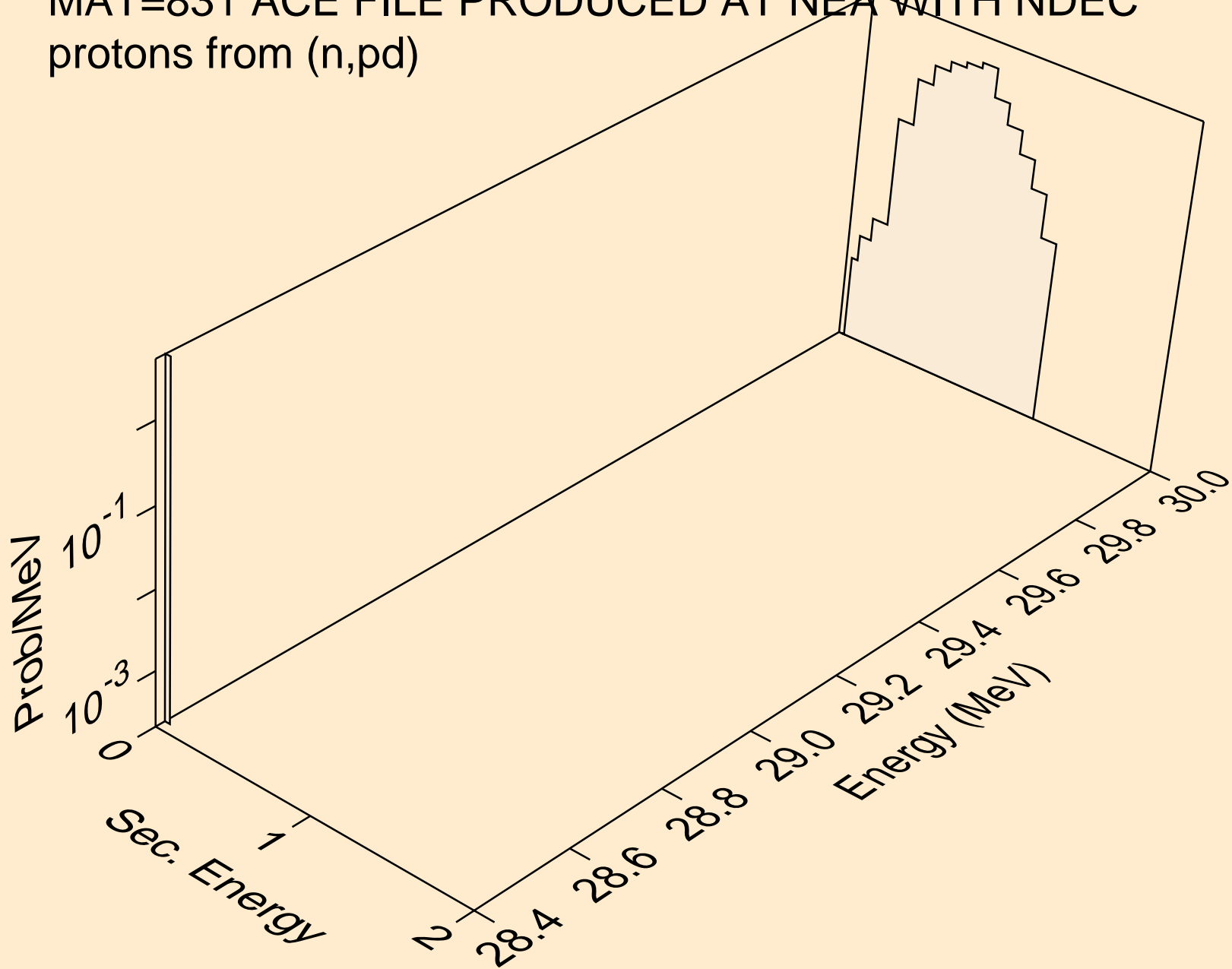


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protons from (n,pa)

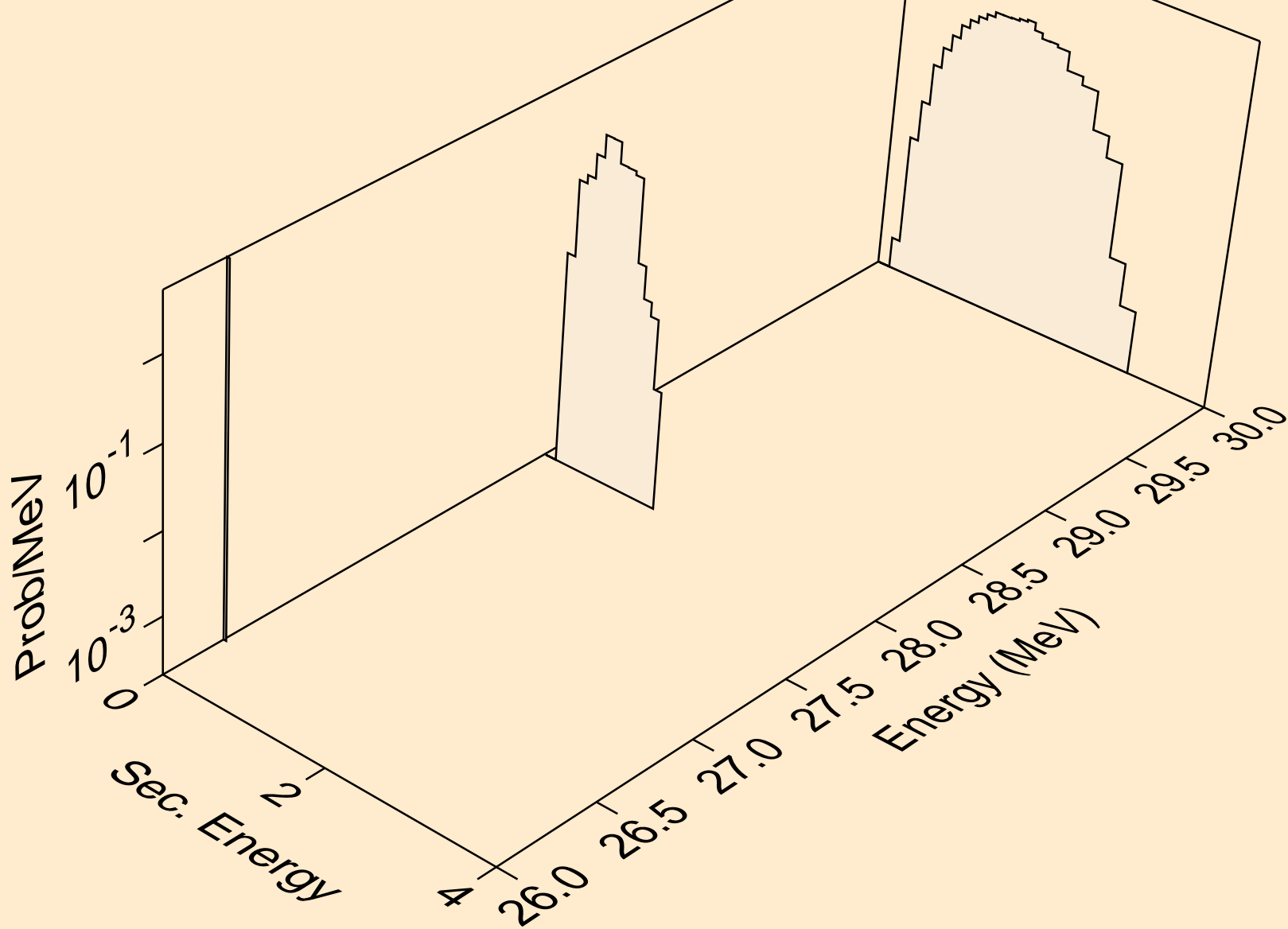




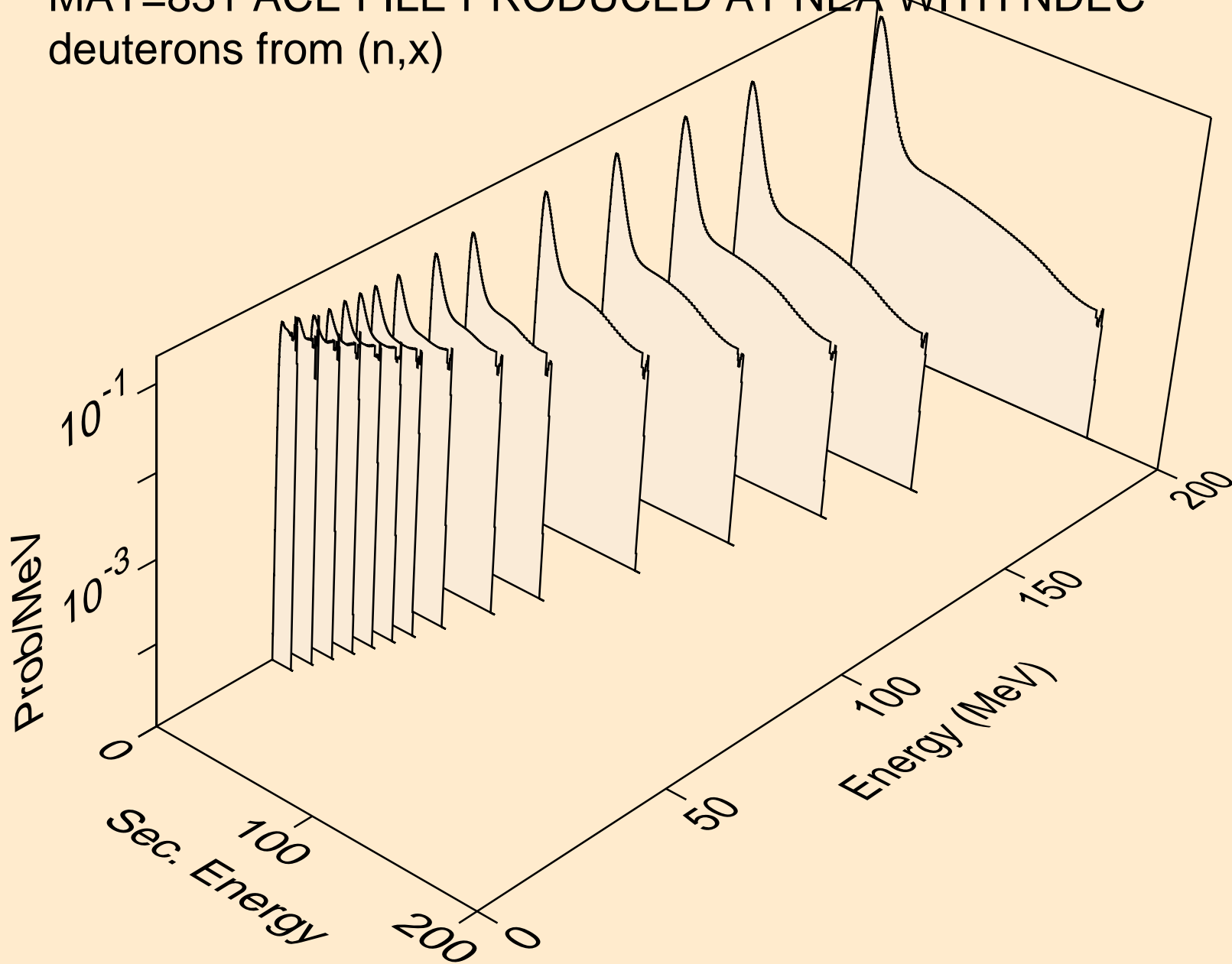
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protons from (n,pd)



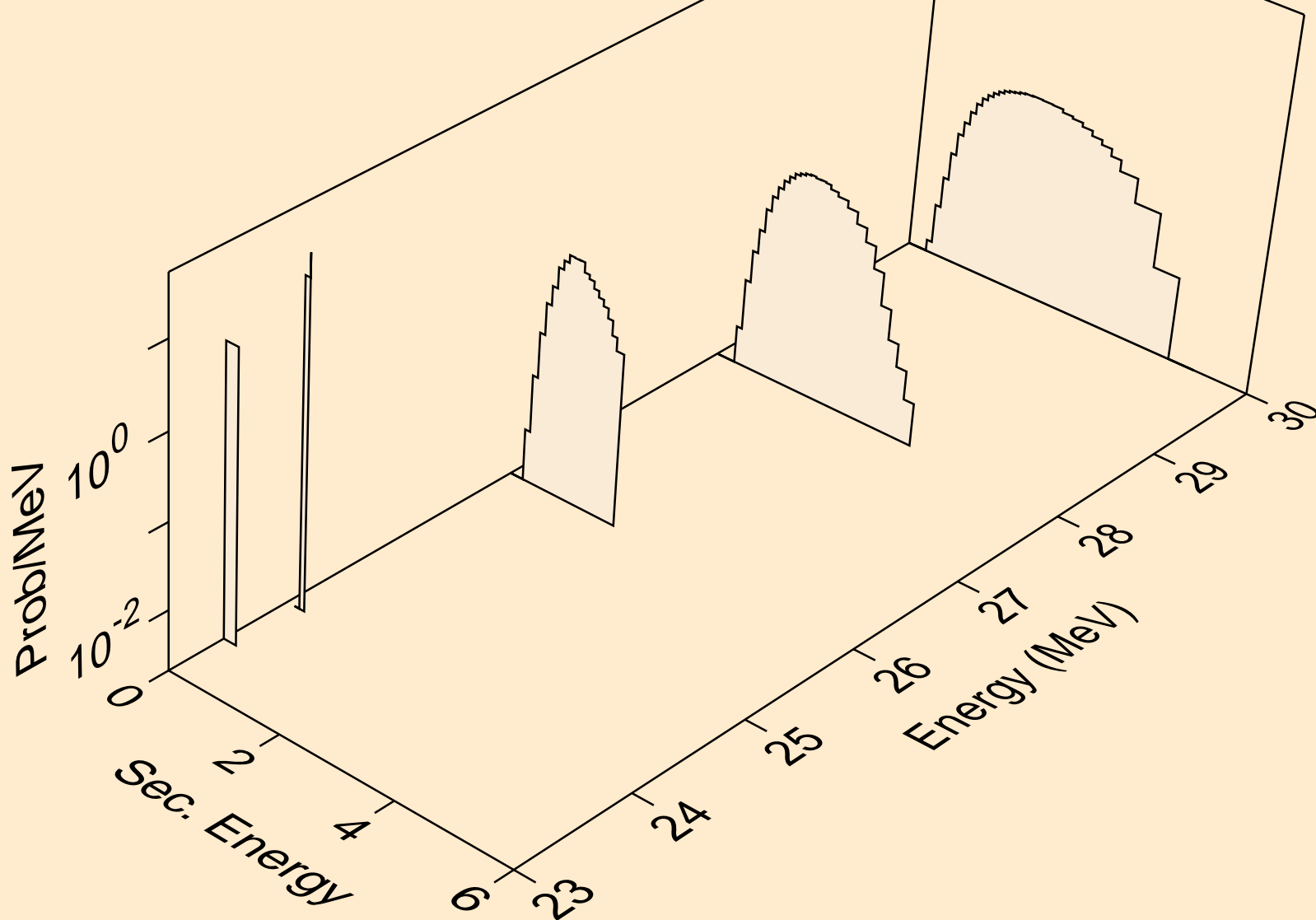
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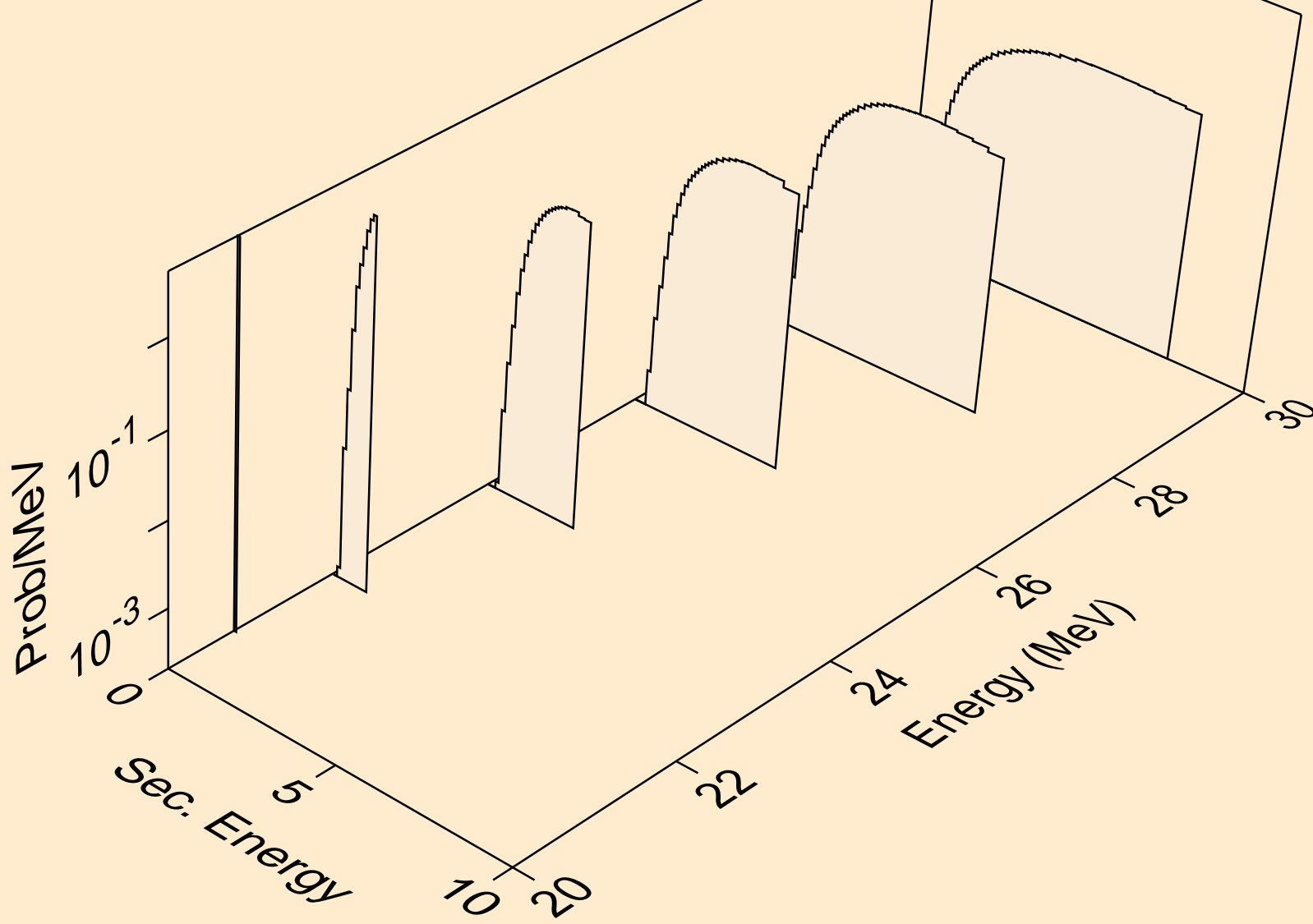
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deuterons from (n,x)



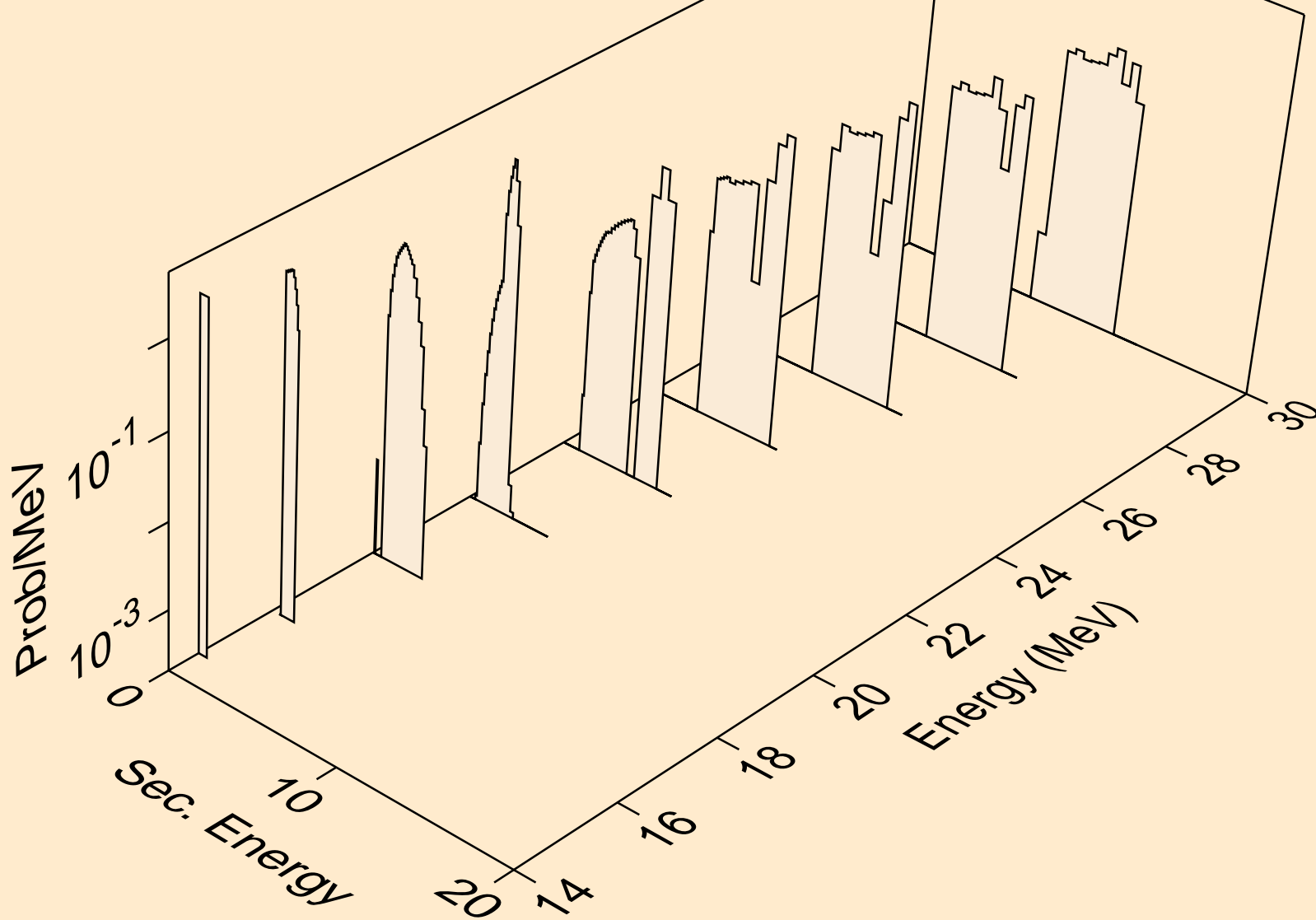
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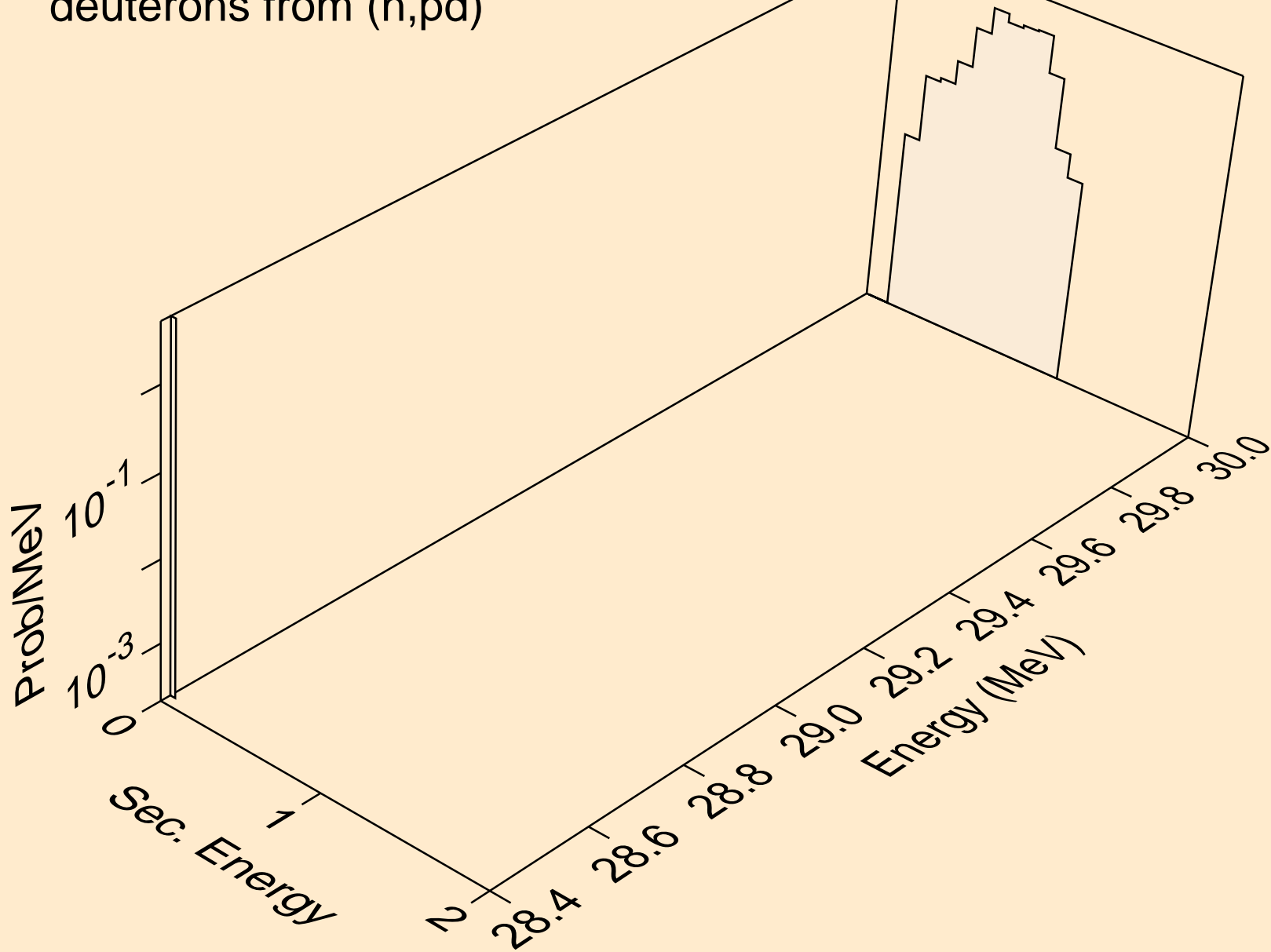
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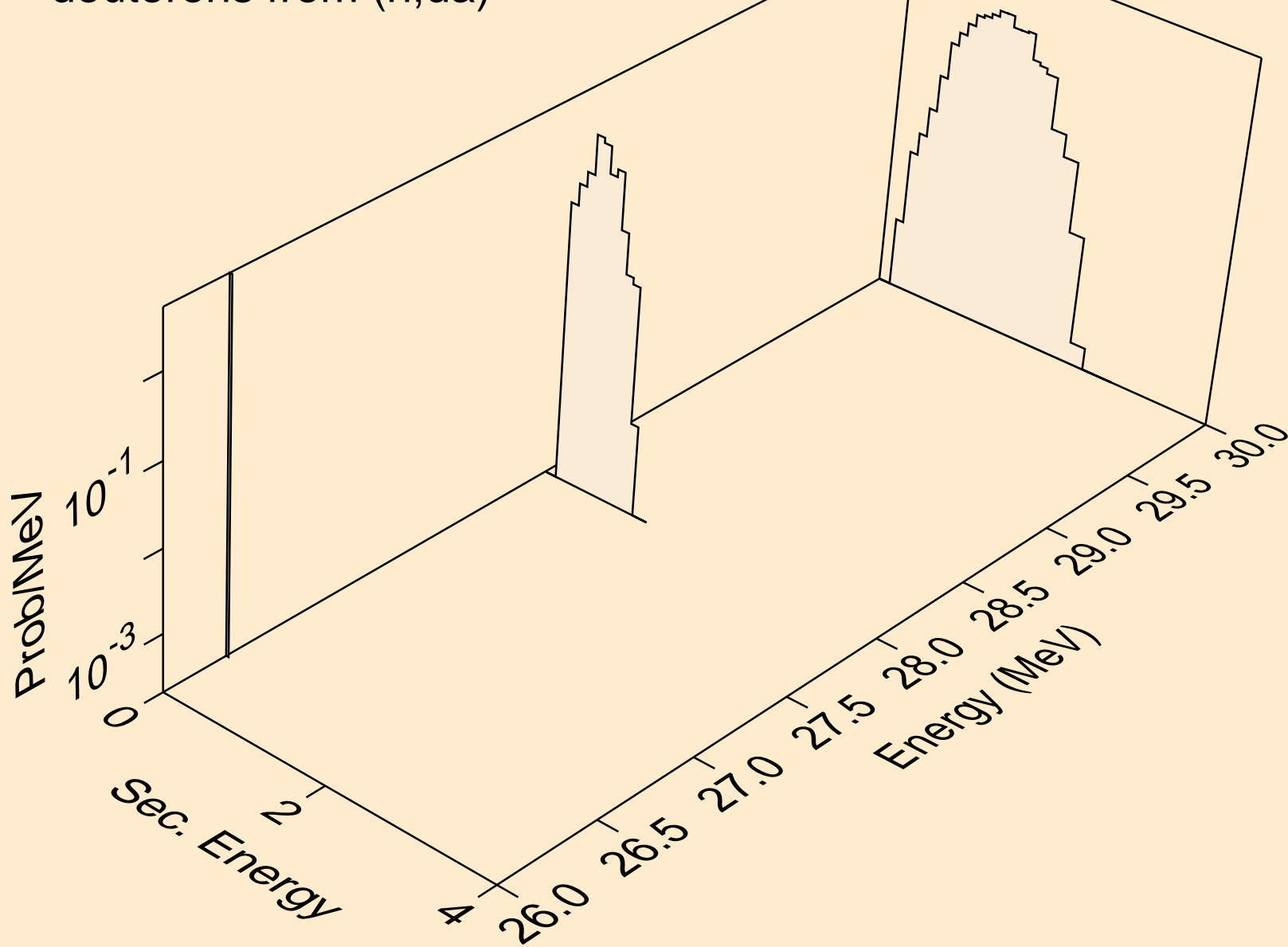
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MAT=831 ACE FILE PRODUCED AT NEA WITH NDEC  
deuterons from (n,pd)

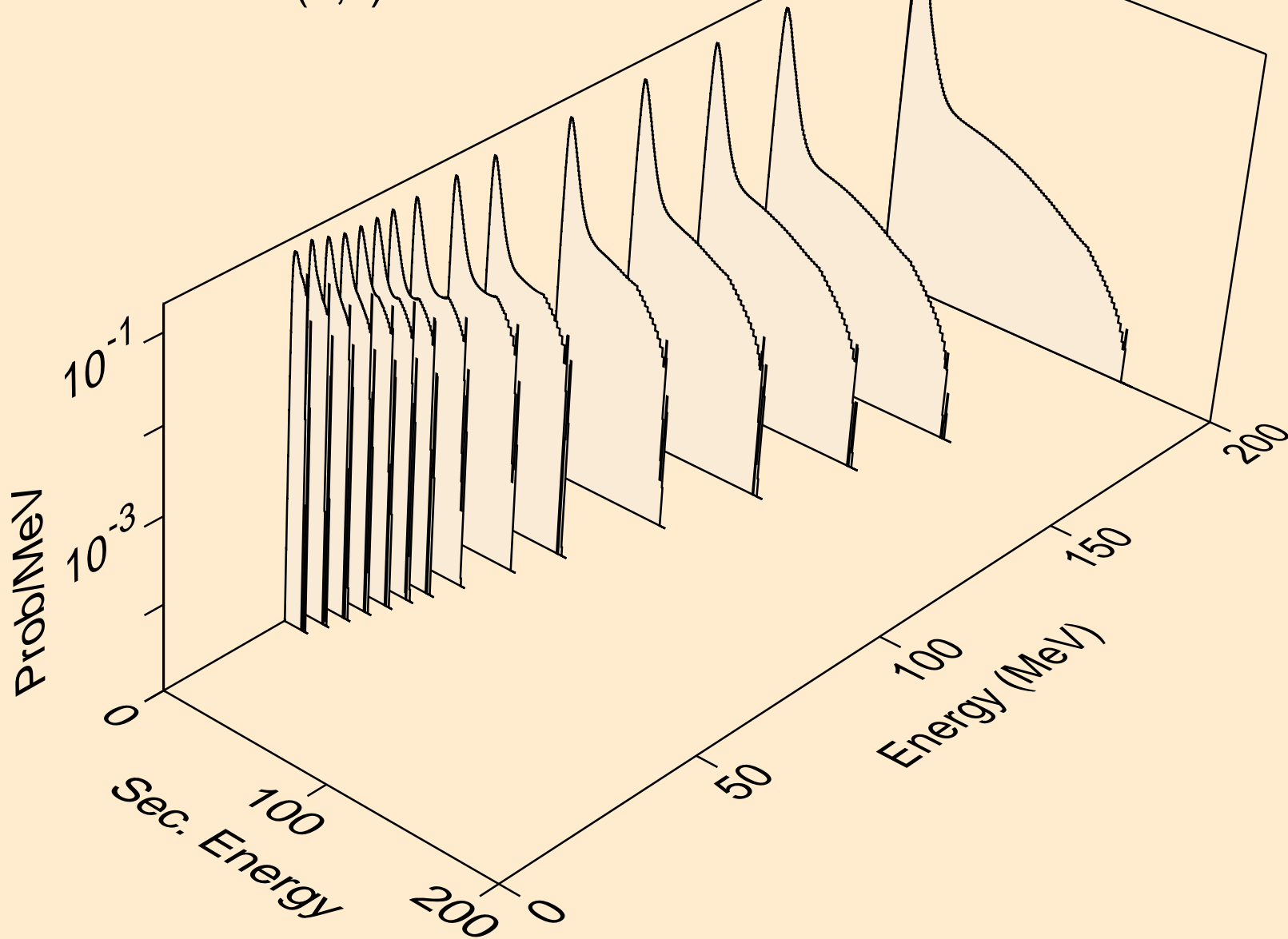


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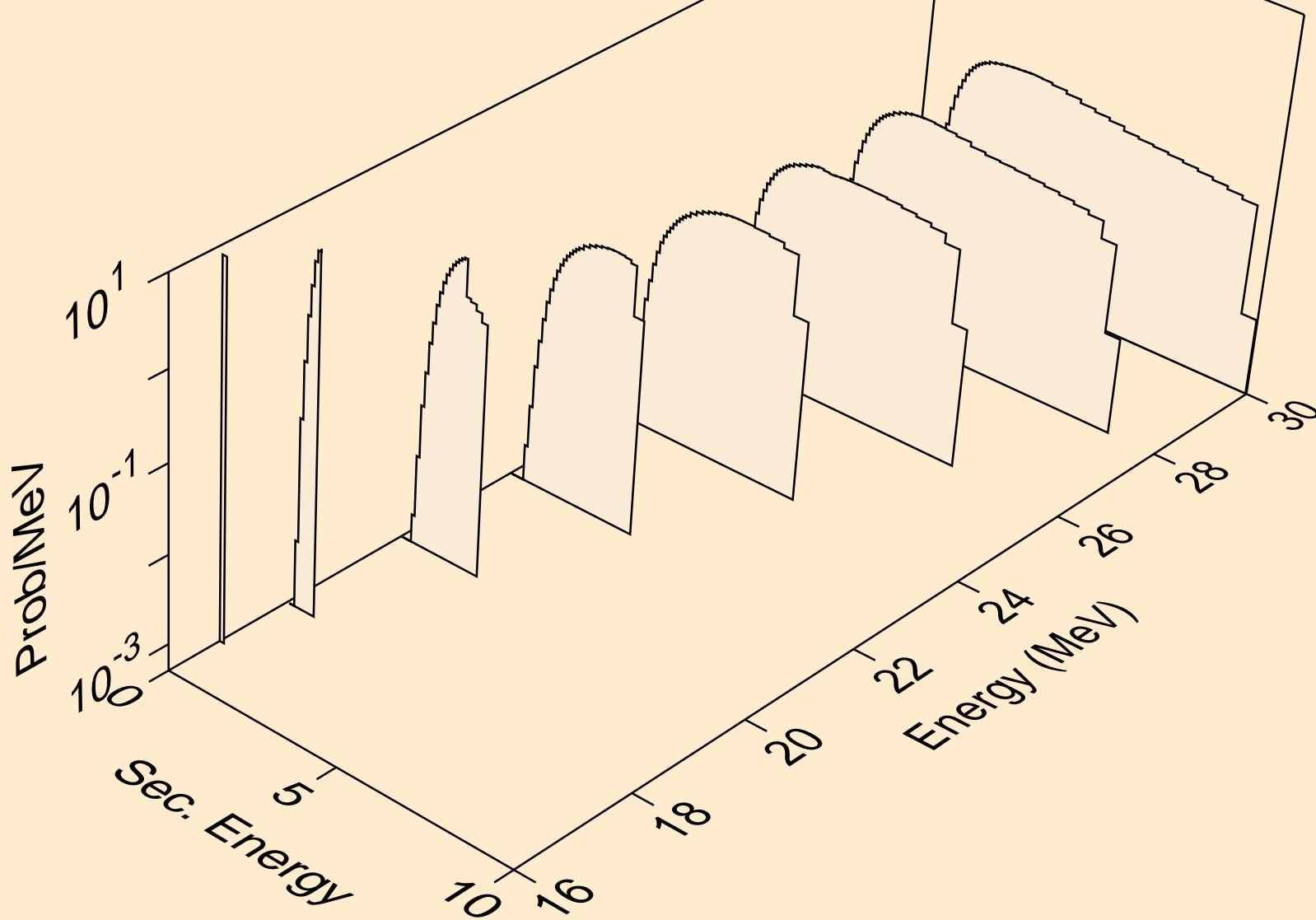




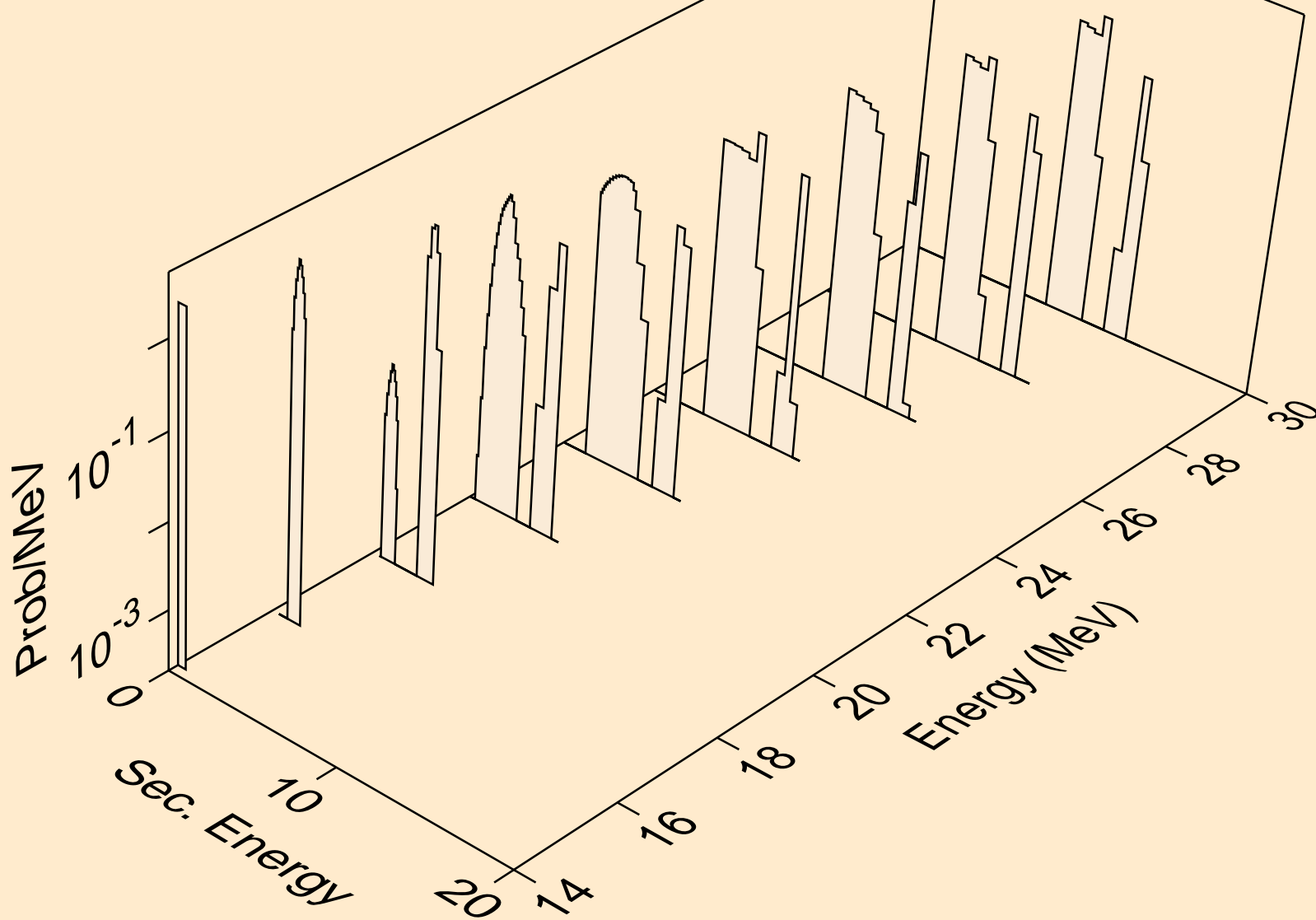
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tritons from (n,x)



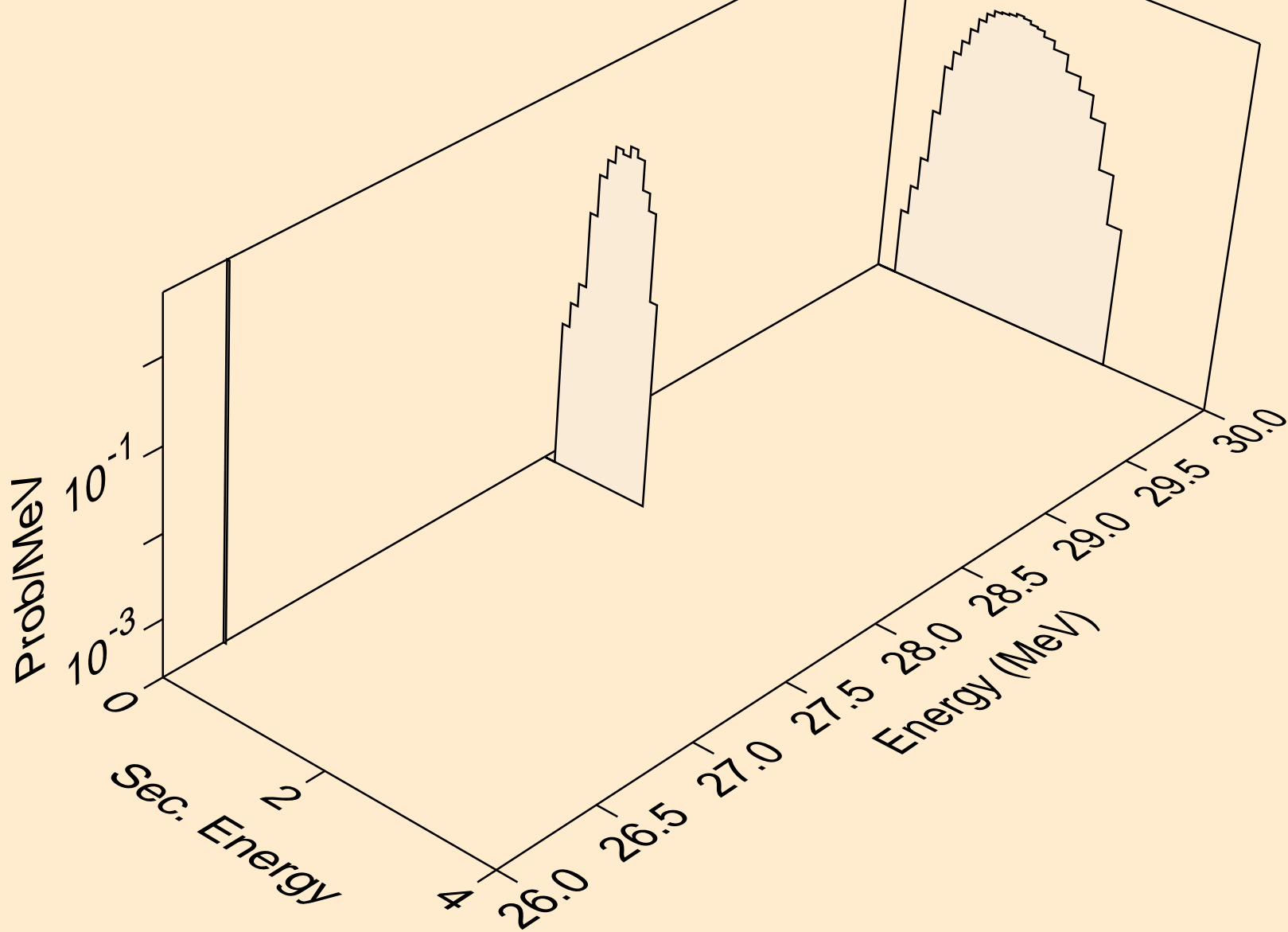
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tritons from (n,n\*)t



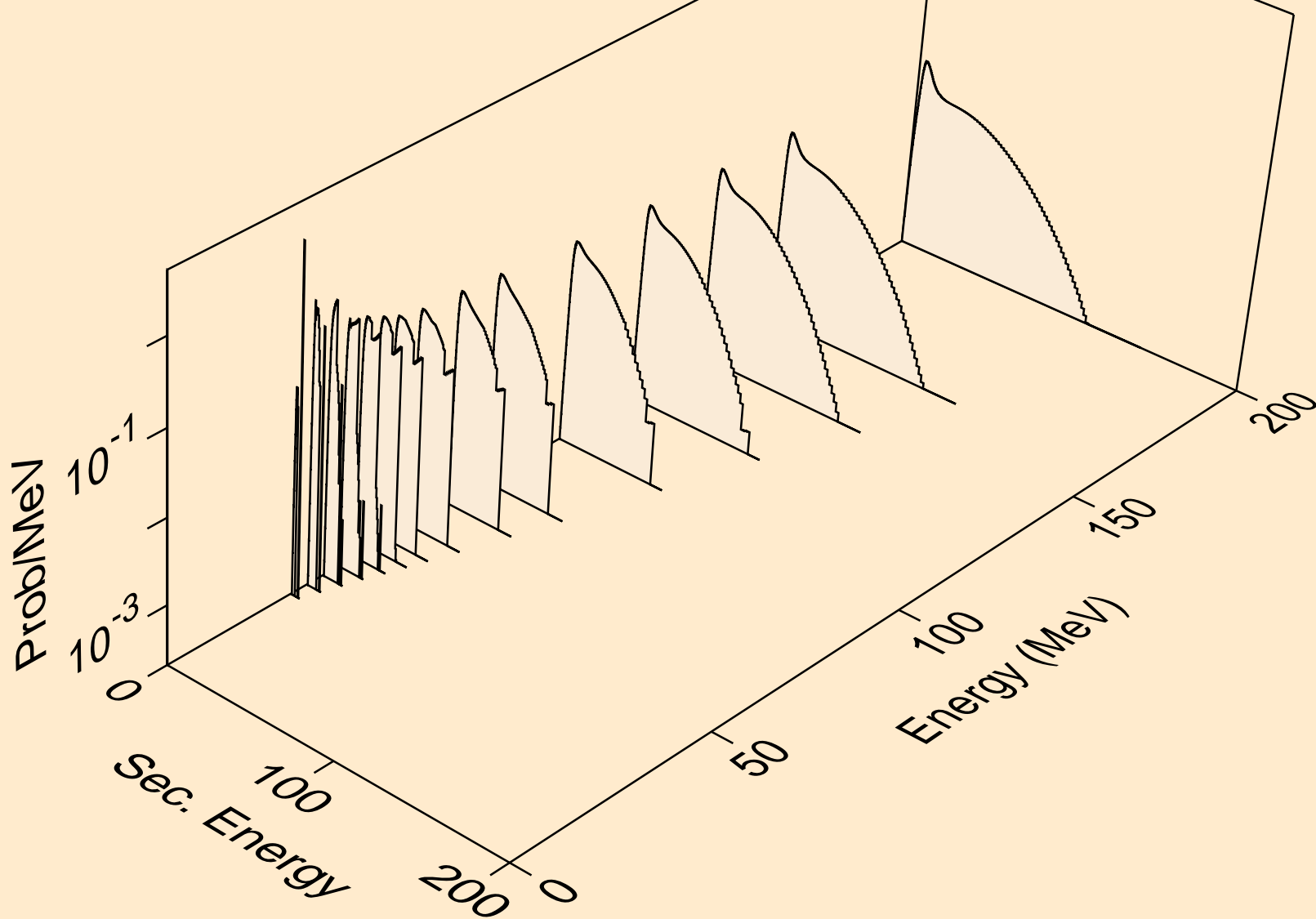
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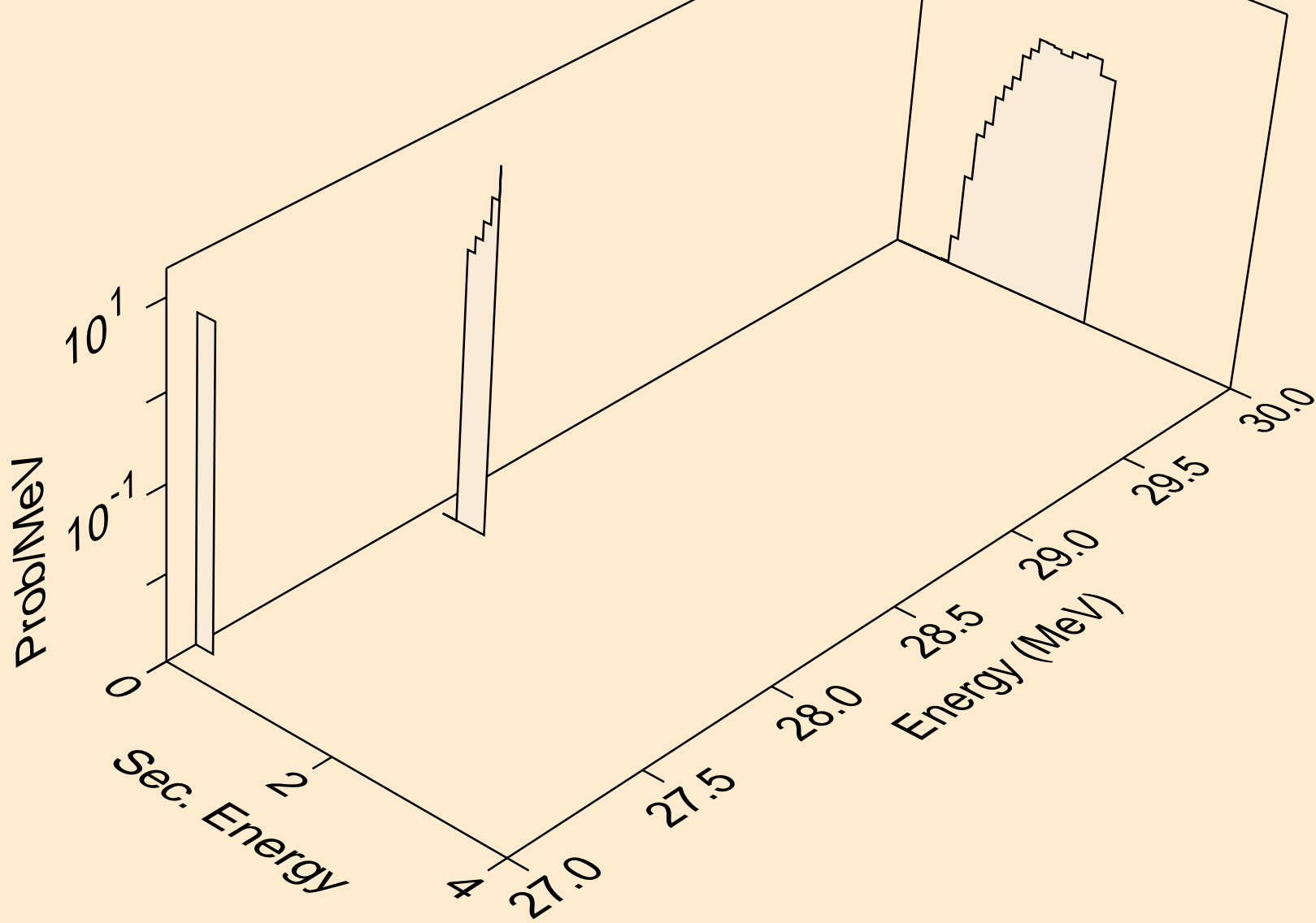
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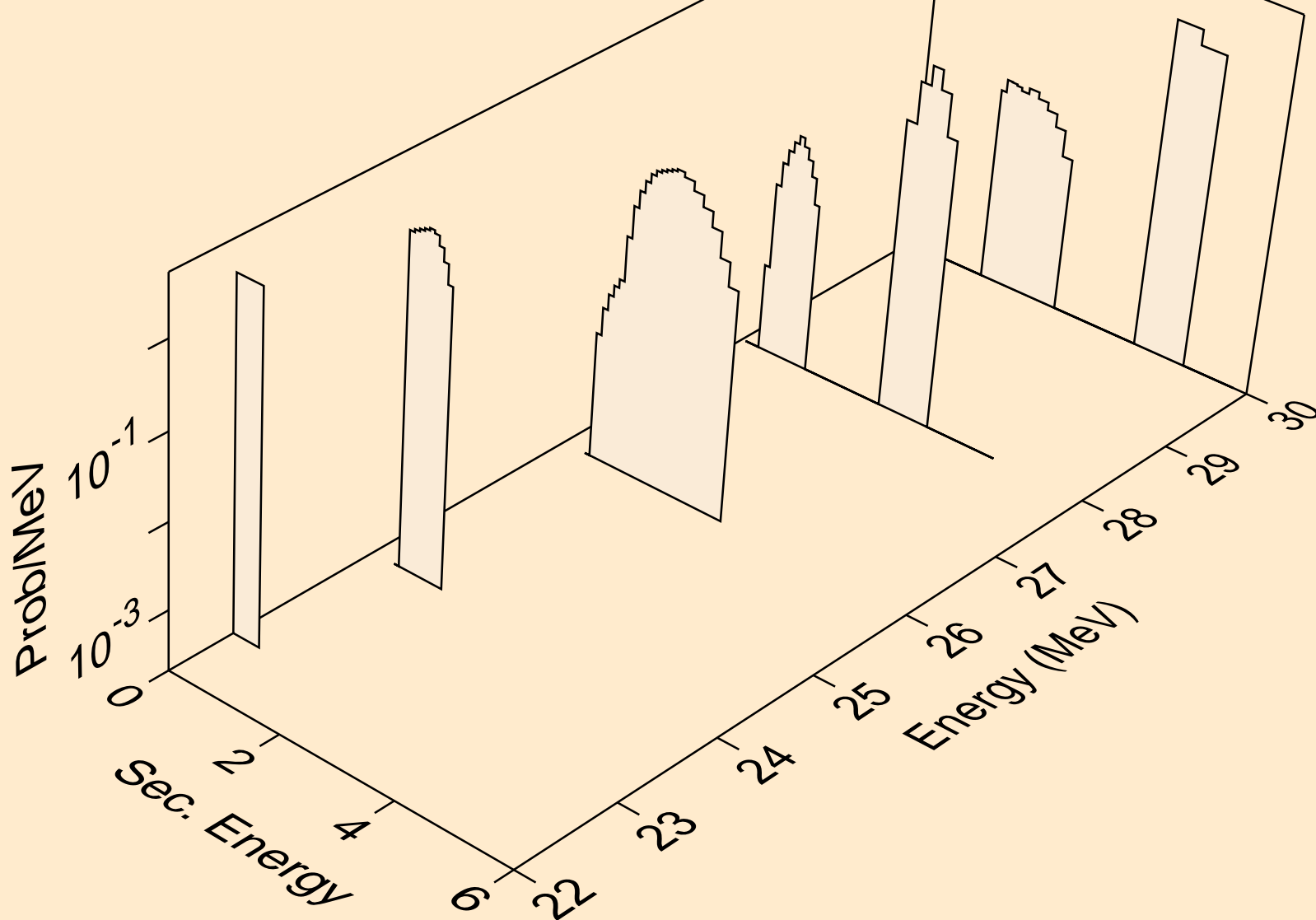
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he3s from (n,x)



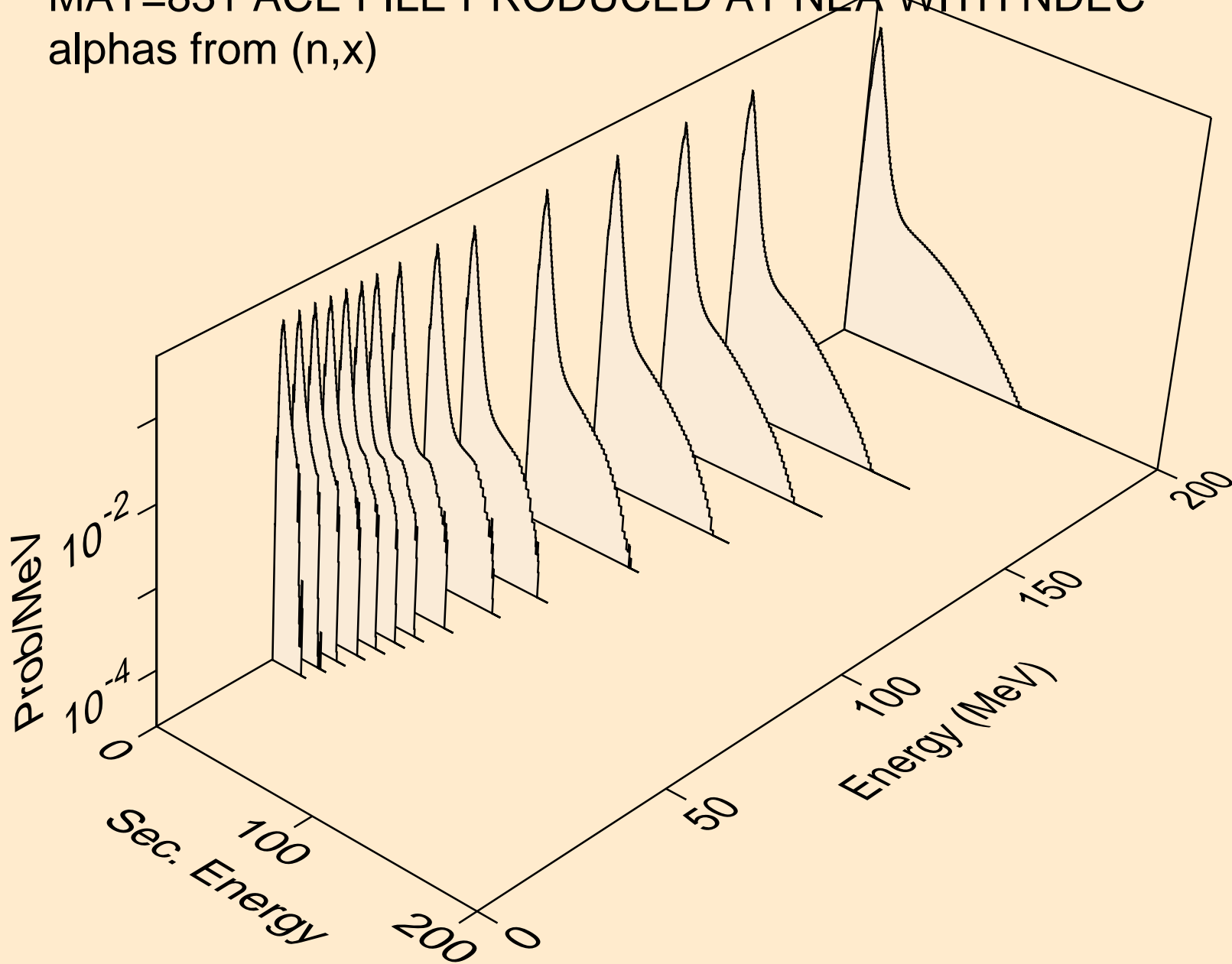
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he3s from (n,n\*)he3



MAT=831 ACE FILE PRODUCED AT NEA WITH NDEC  
he3s from (n,he3)

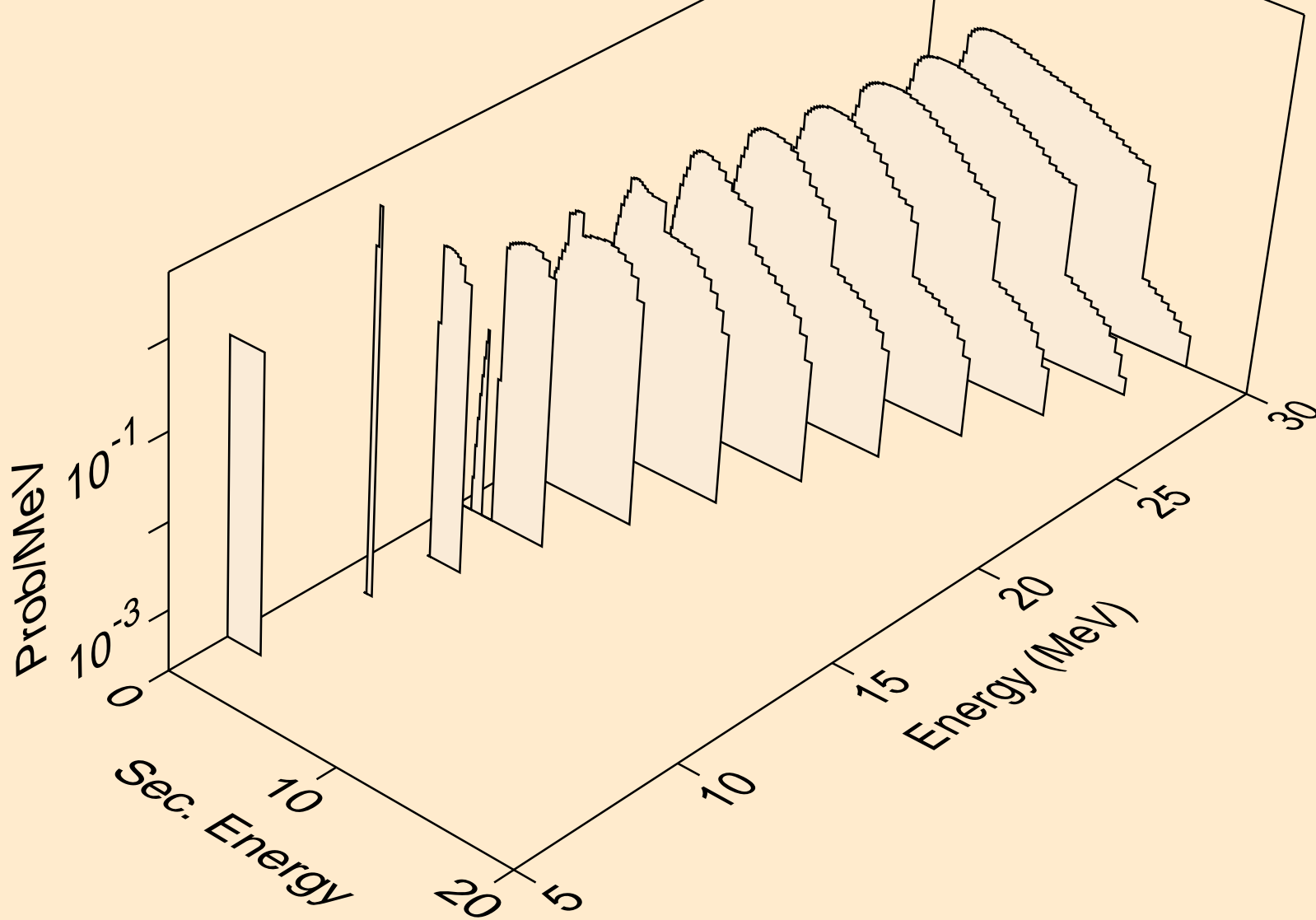


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alphas from (n,x)

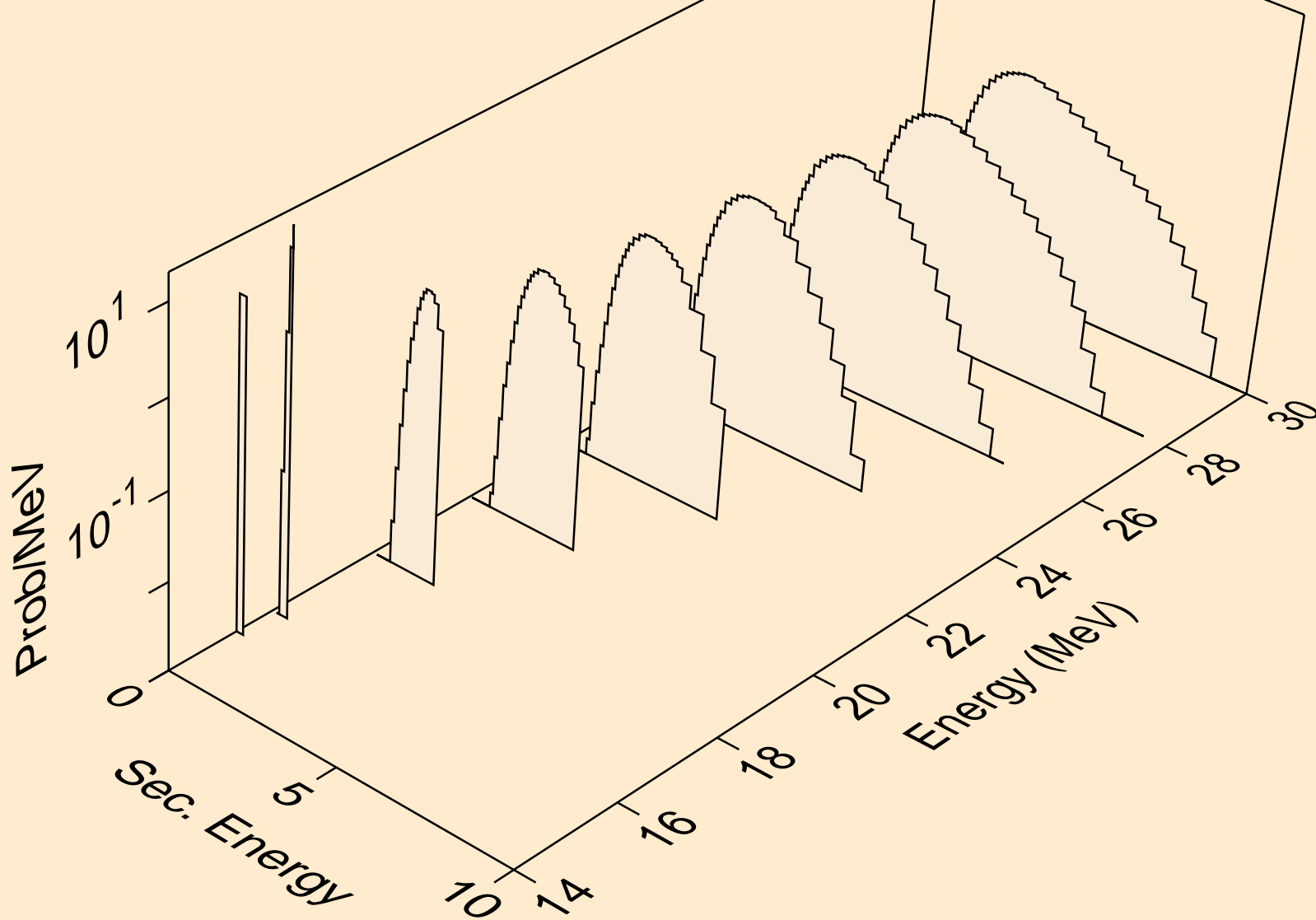




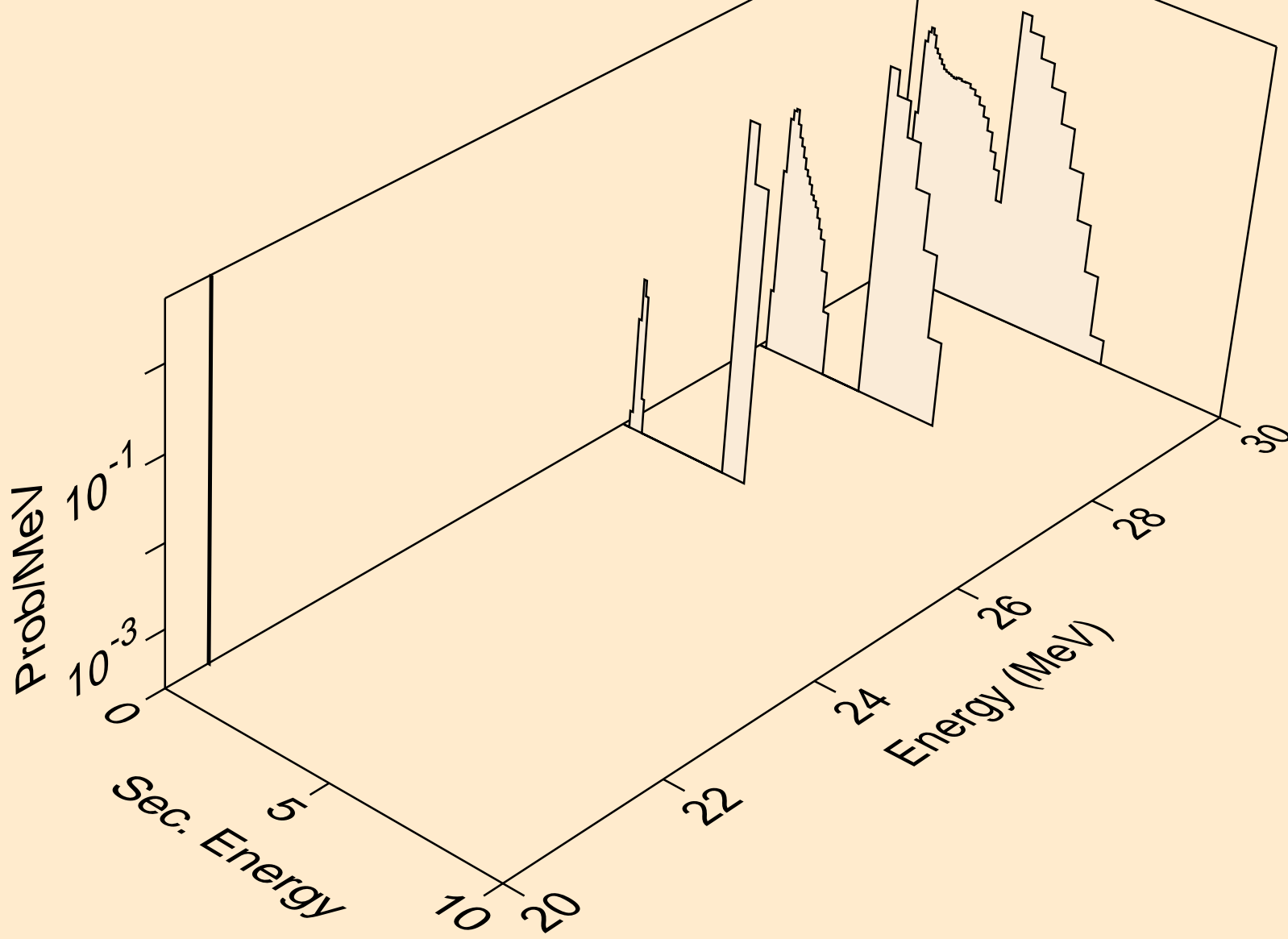
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alphas from (n,n\*)a



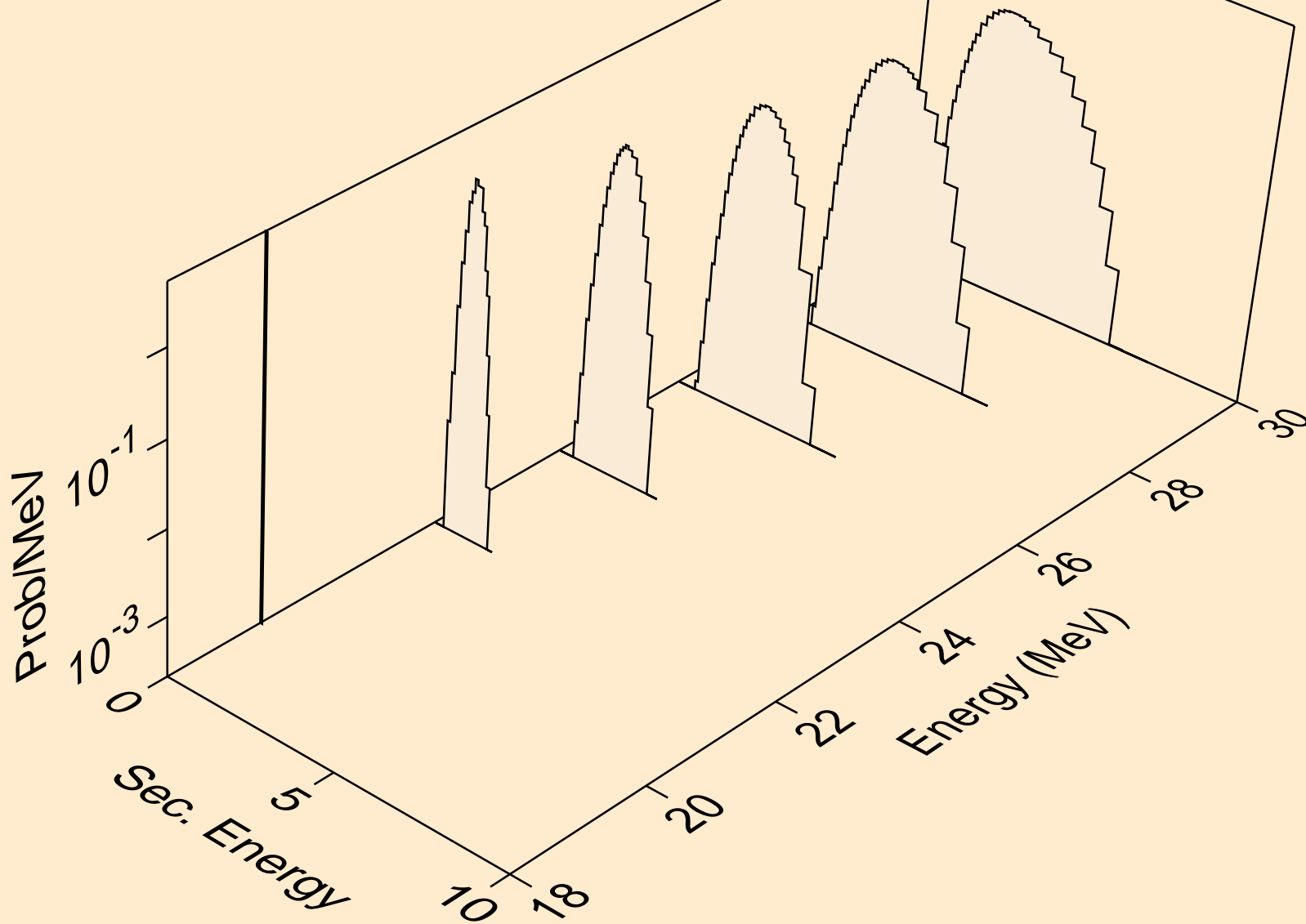
MAT=831 ACE FILE PRODUCED AT NEA WITH NDEC  
alphas from (n,2n)a



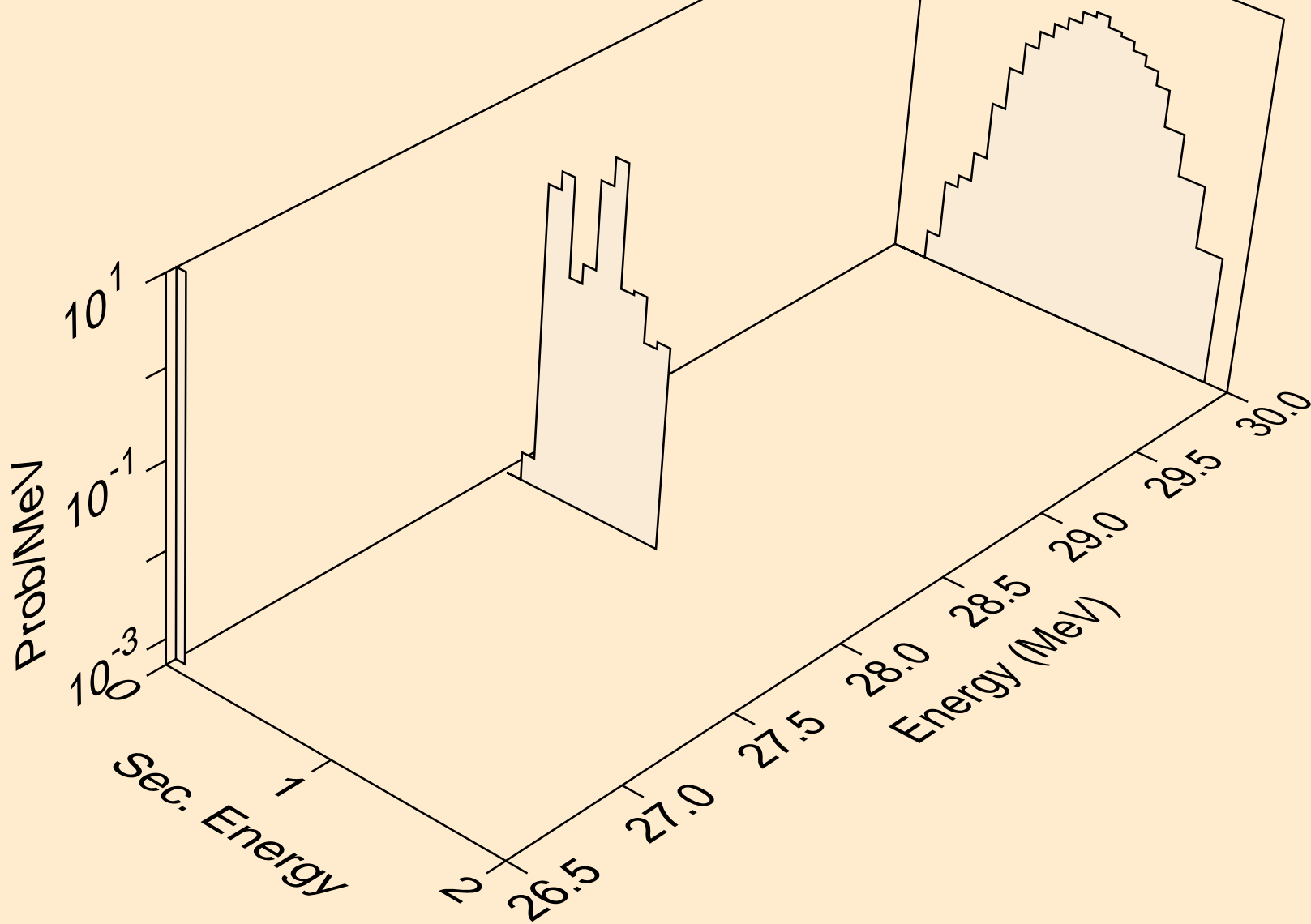
MAT=831 ACE FILE PRODUCED AT NEA WITH NDEC  
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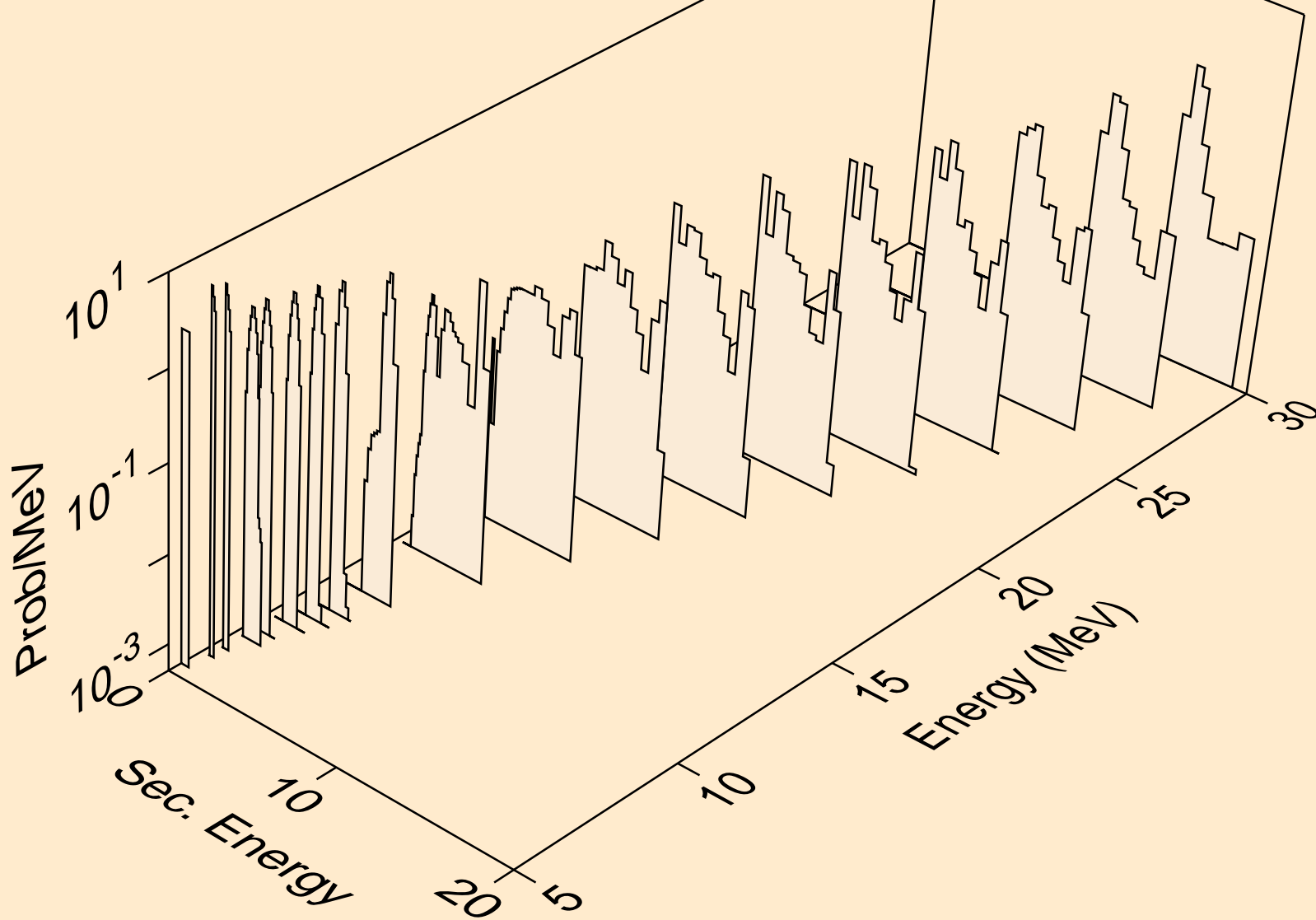
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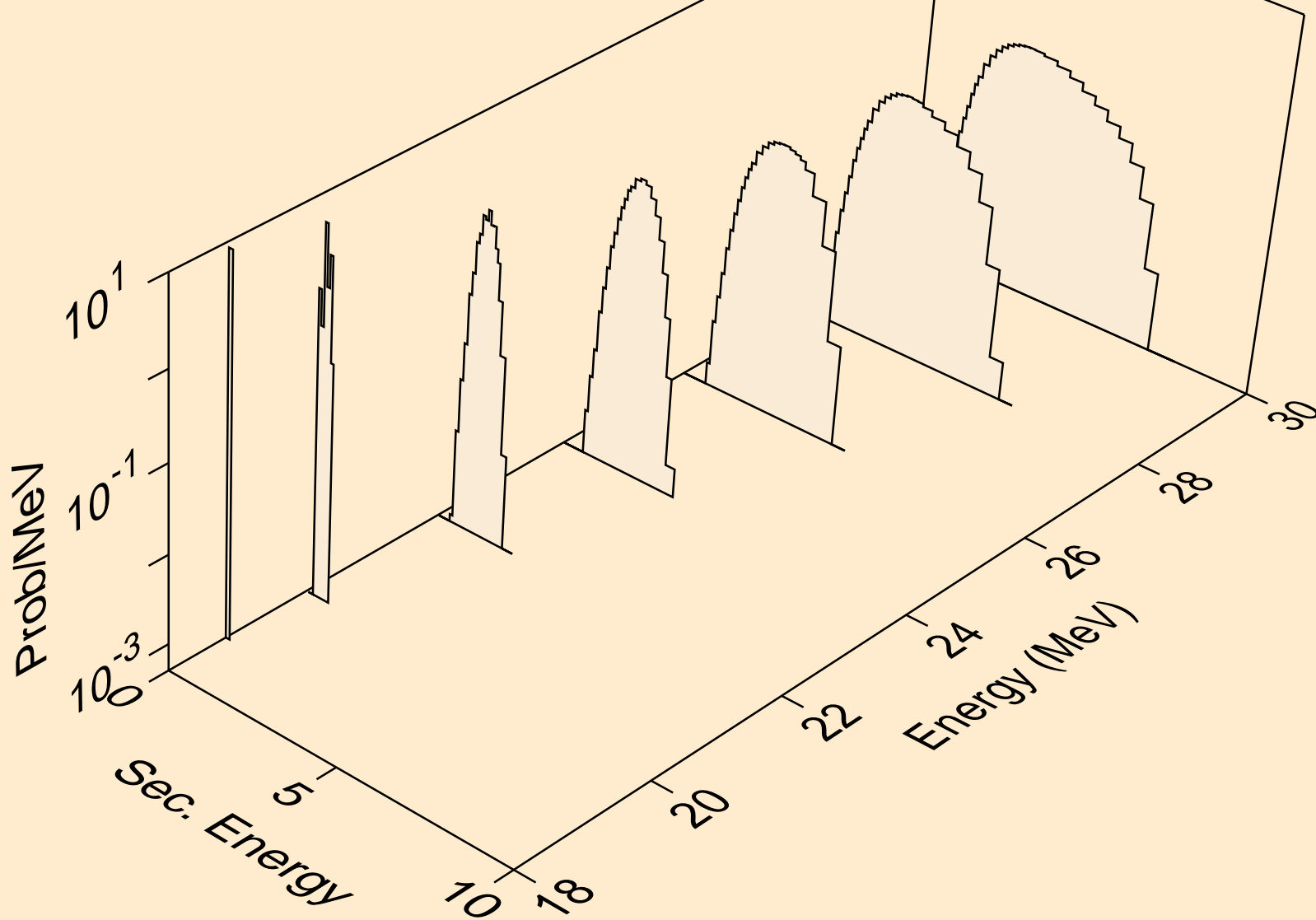
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alphas from (n,2n)2a



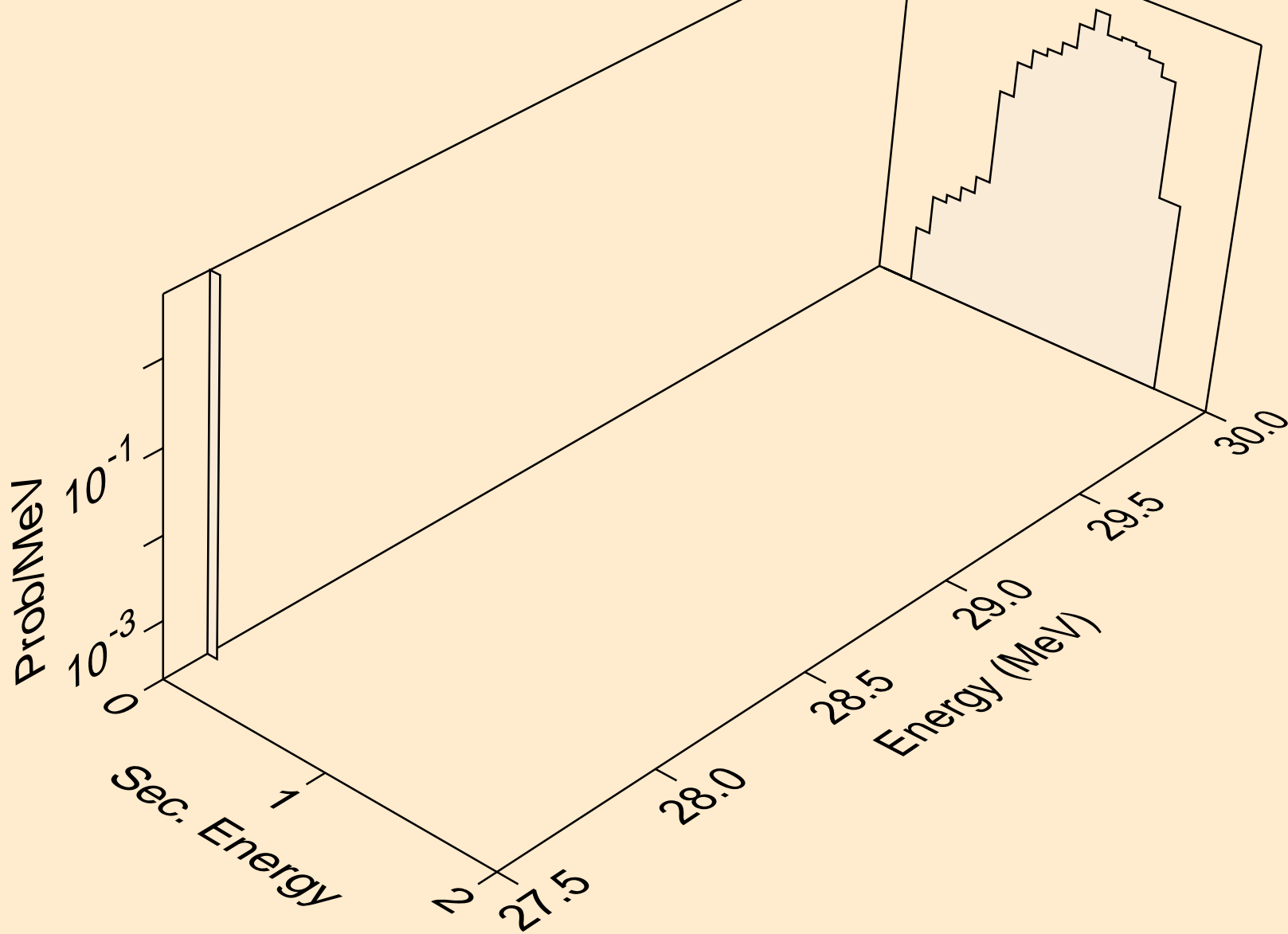
MAT=831 ACE FILE PRODUCED AT NEA WITH NDEC  
alphas from (n,a)



MAT=831 ACE FILE PRODUCED AT NEA WITH NDEC  
alphas from (n,2a)



MAT=831 ACE FILE PRODUCED AT NEA WITH NDEC  
alphas from (n,pa)





MAT=831 ACE FILE PRODUCED AT NEA WITH NDEC  
alphas from (n,da)

