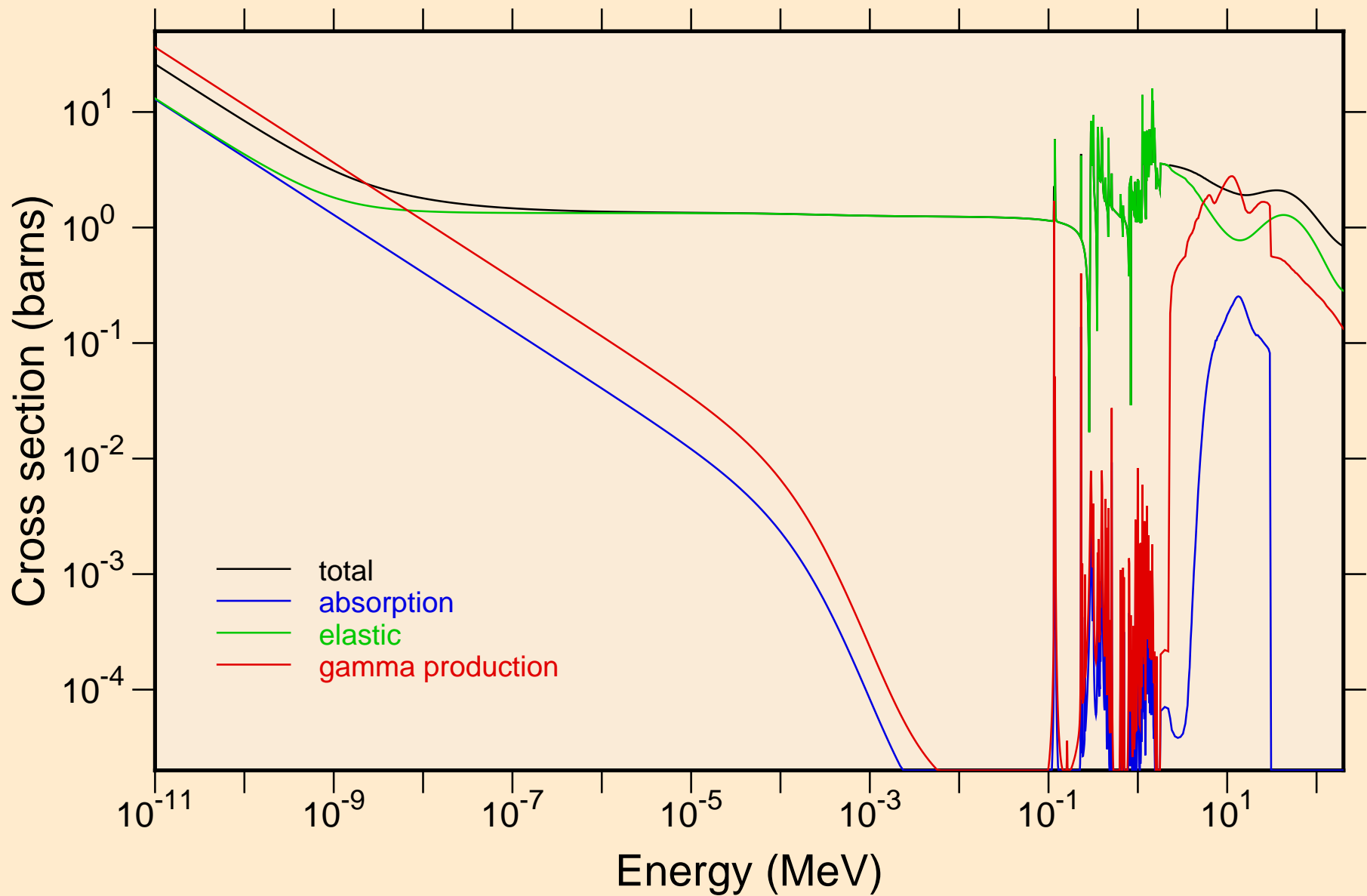
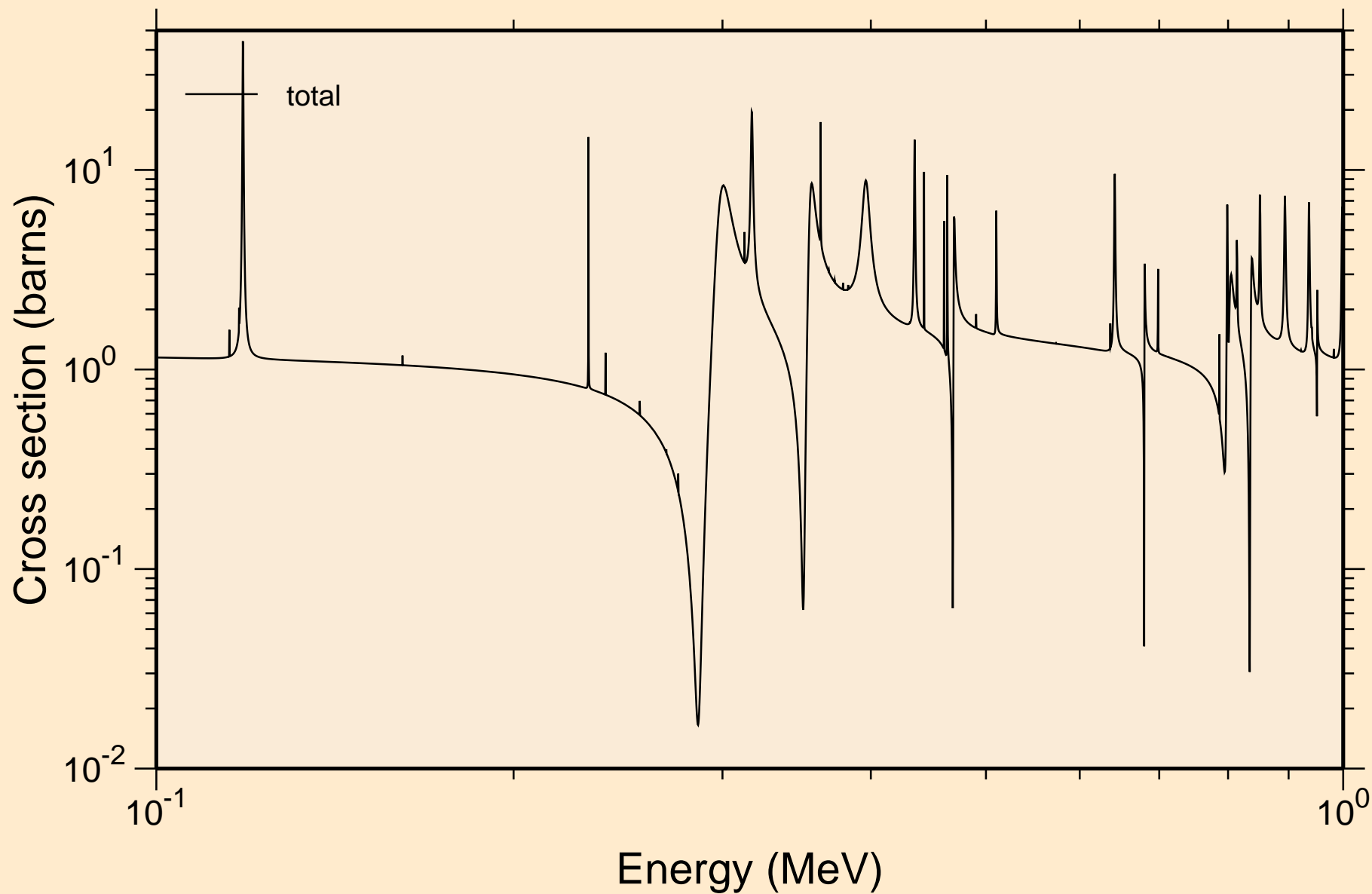


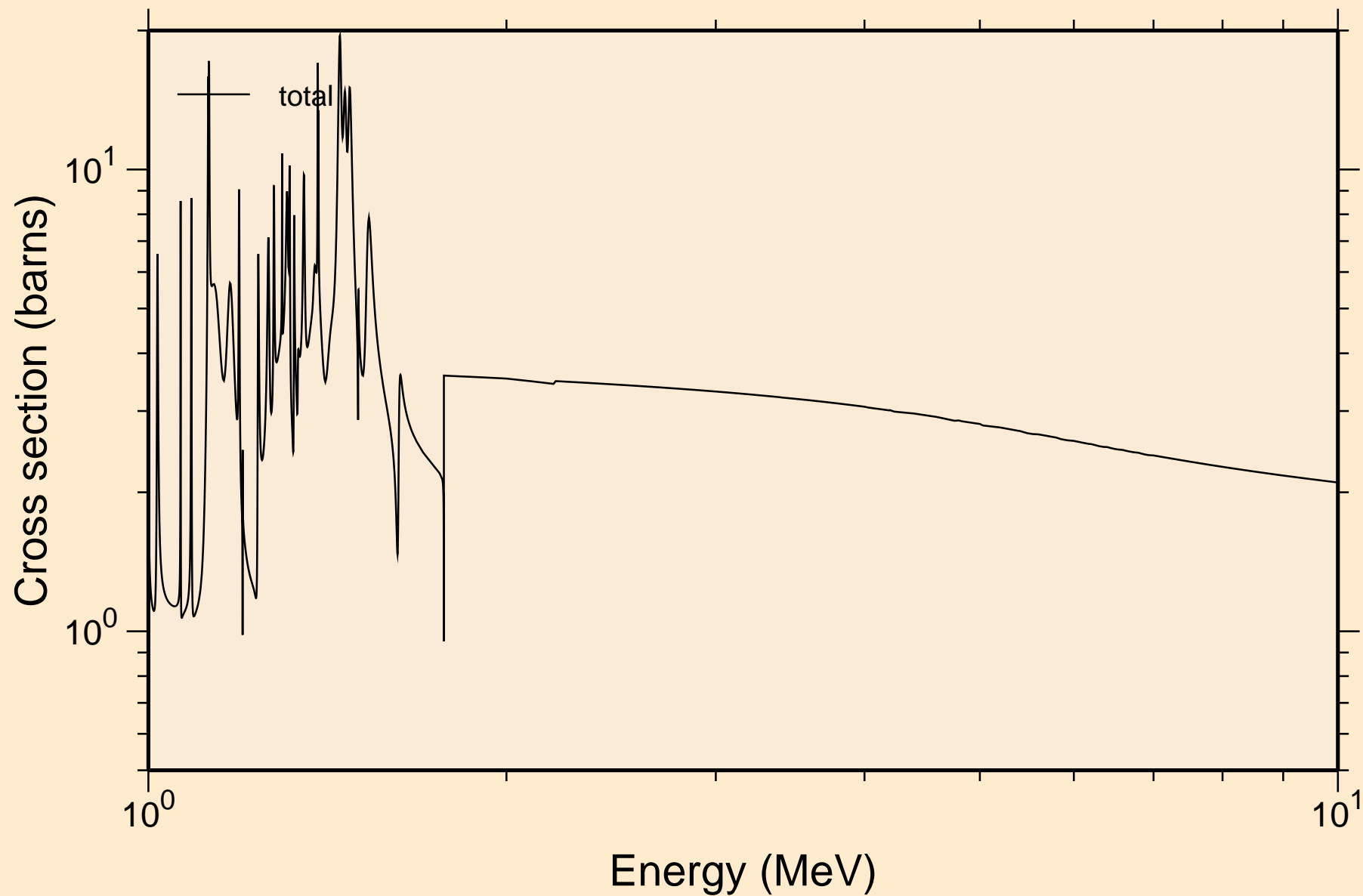
MAT=1631 ACE FILE PRODUCED AT NEA WITH NDEC  
Principal cross sections



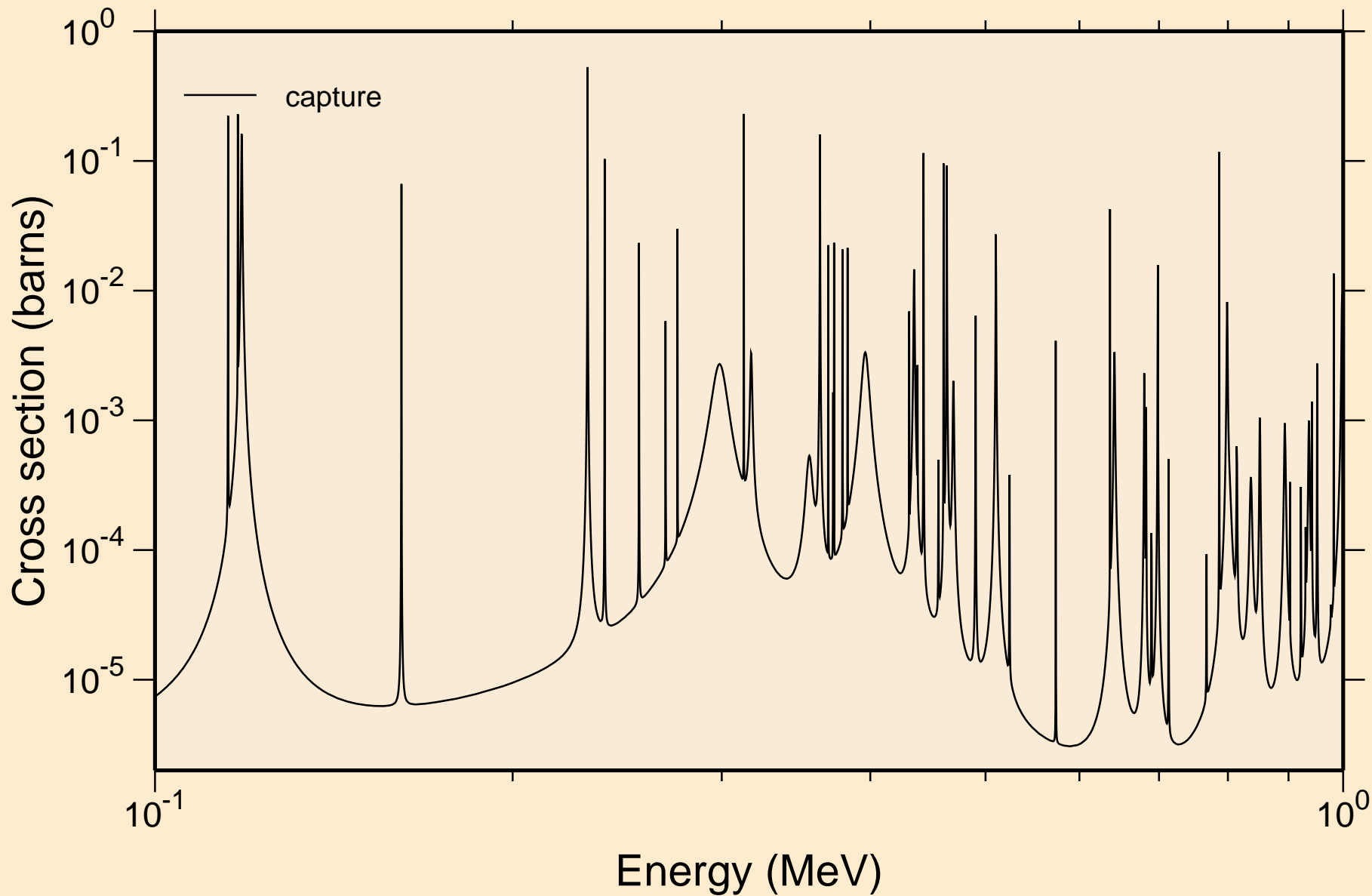
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resonance total cross section



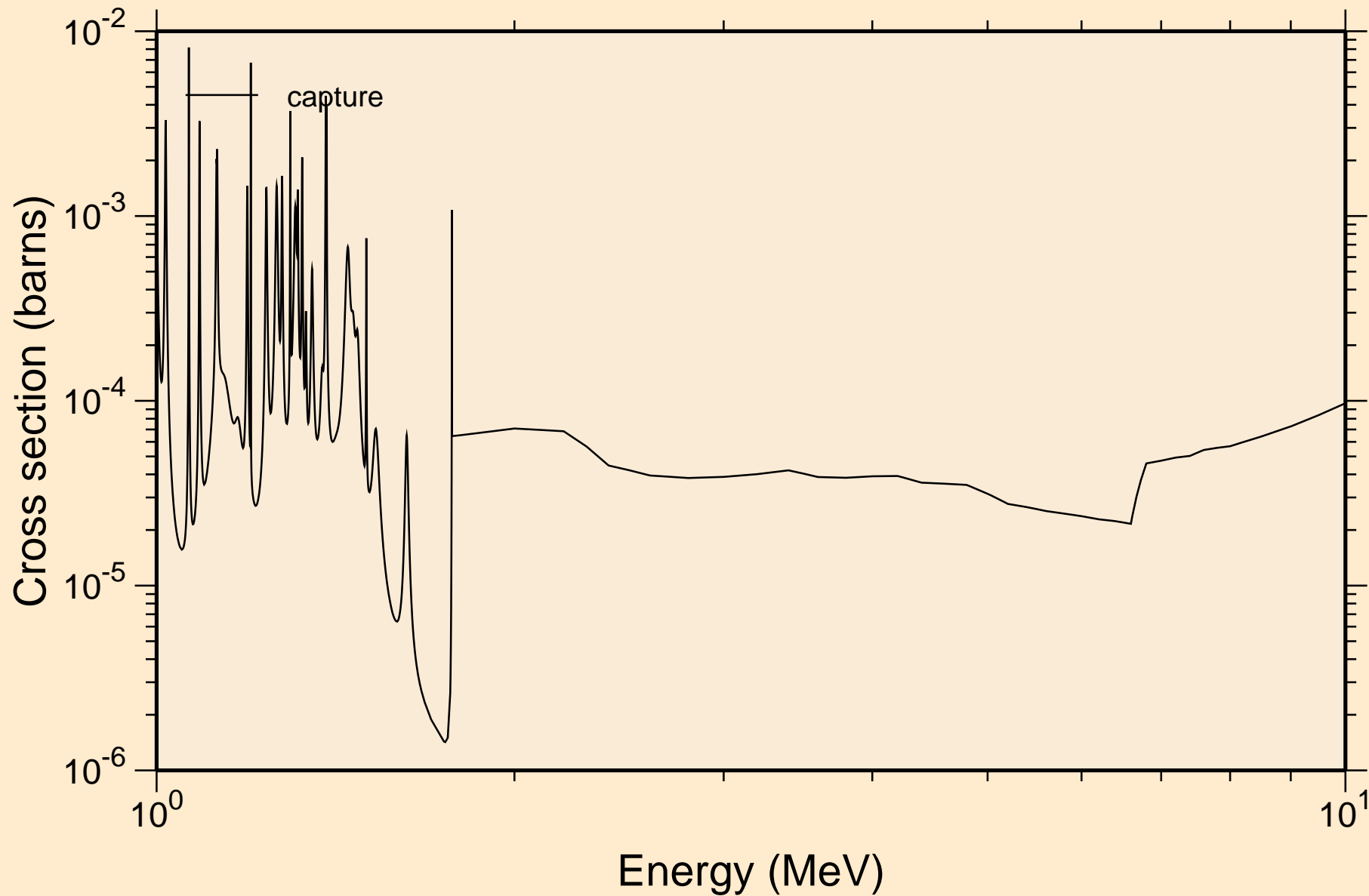
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resonance total cross section



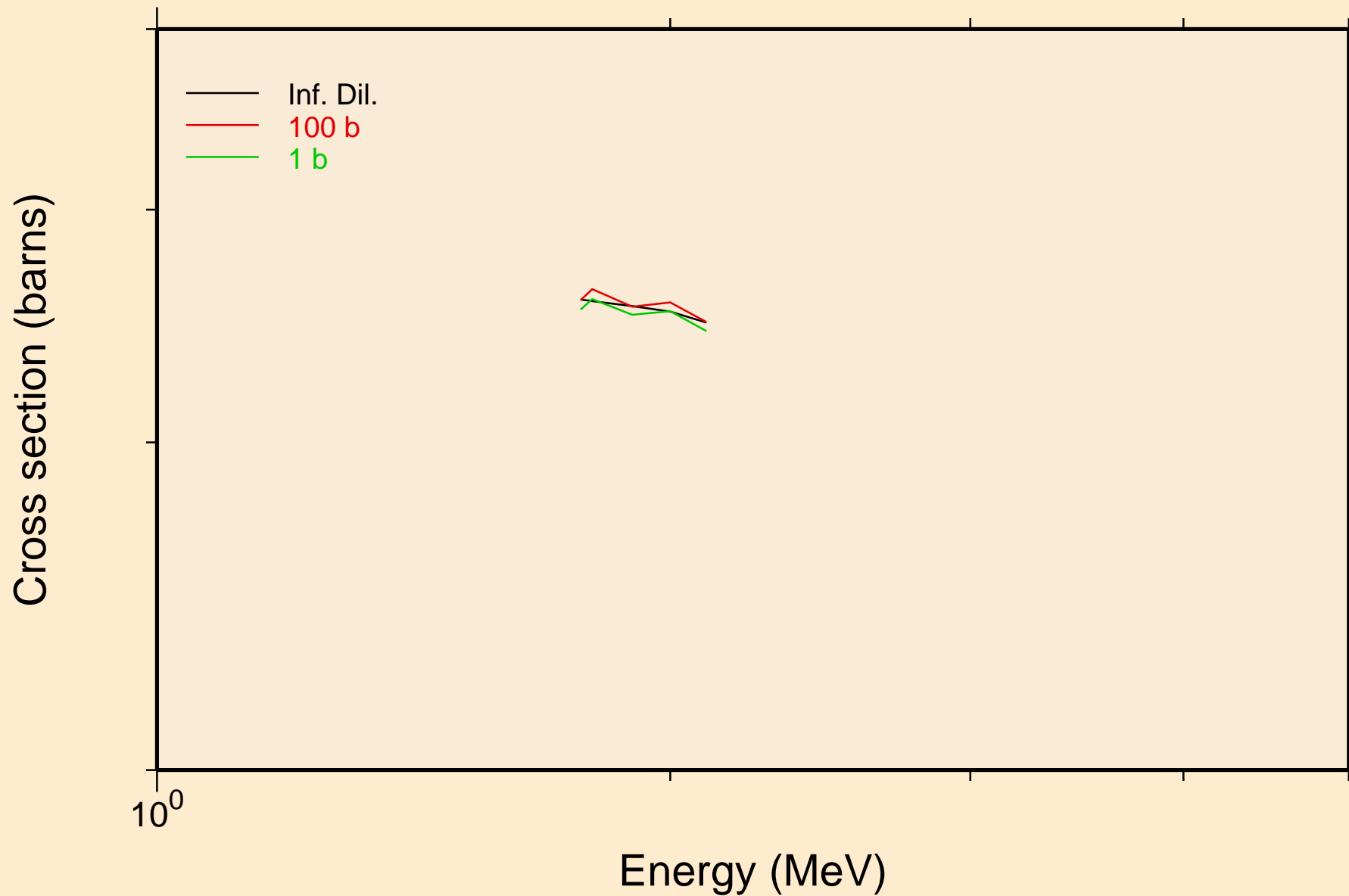
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resonance absorption cross sections



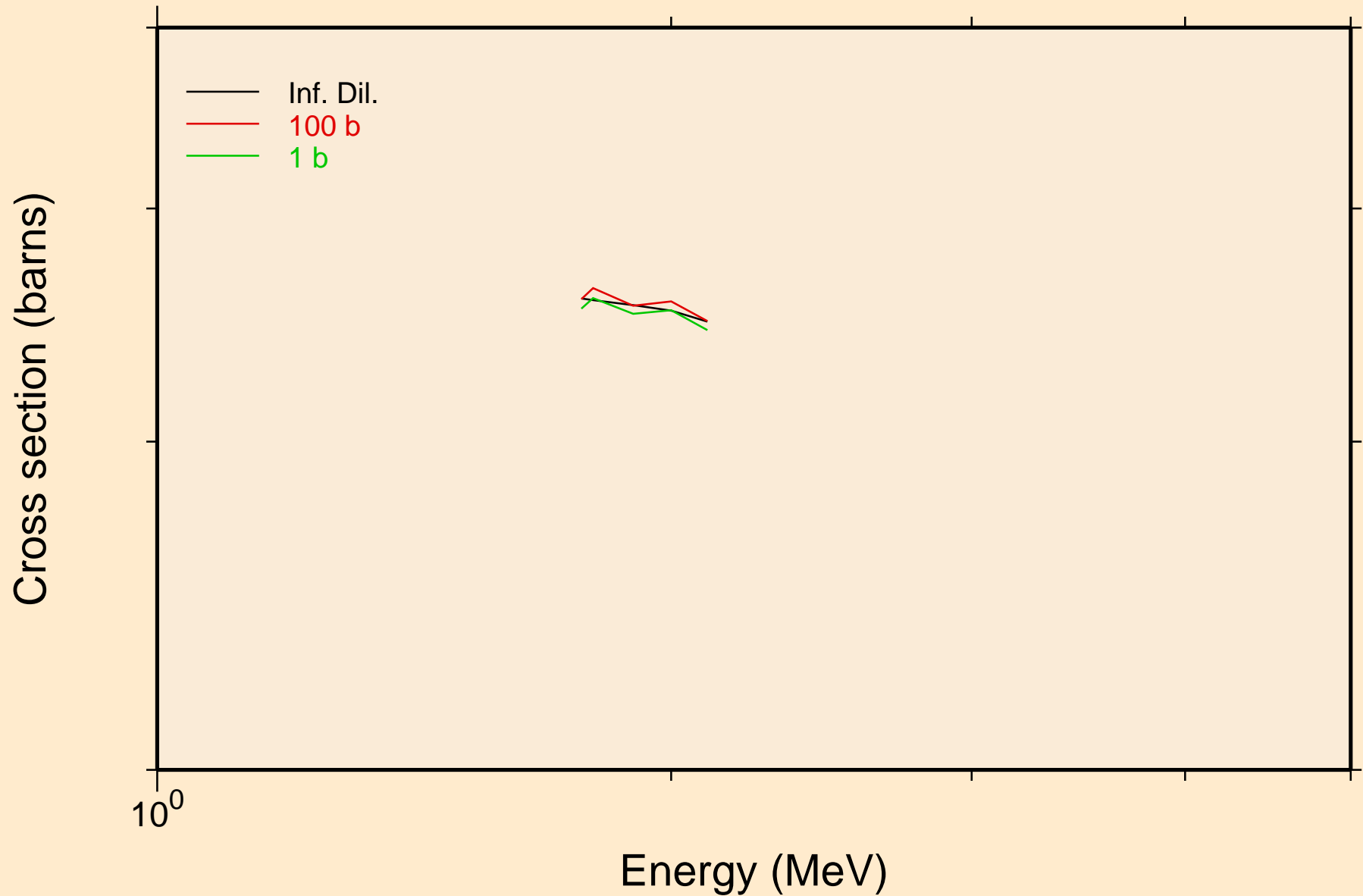
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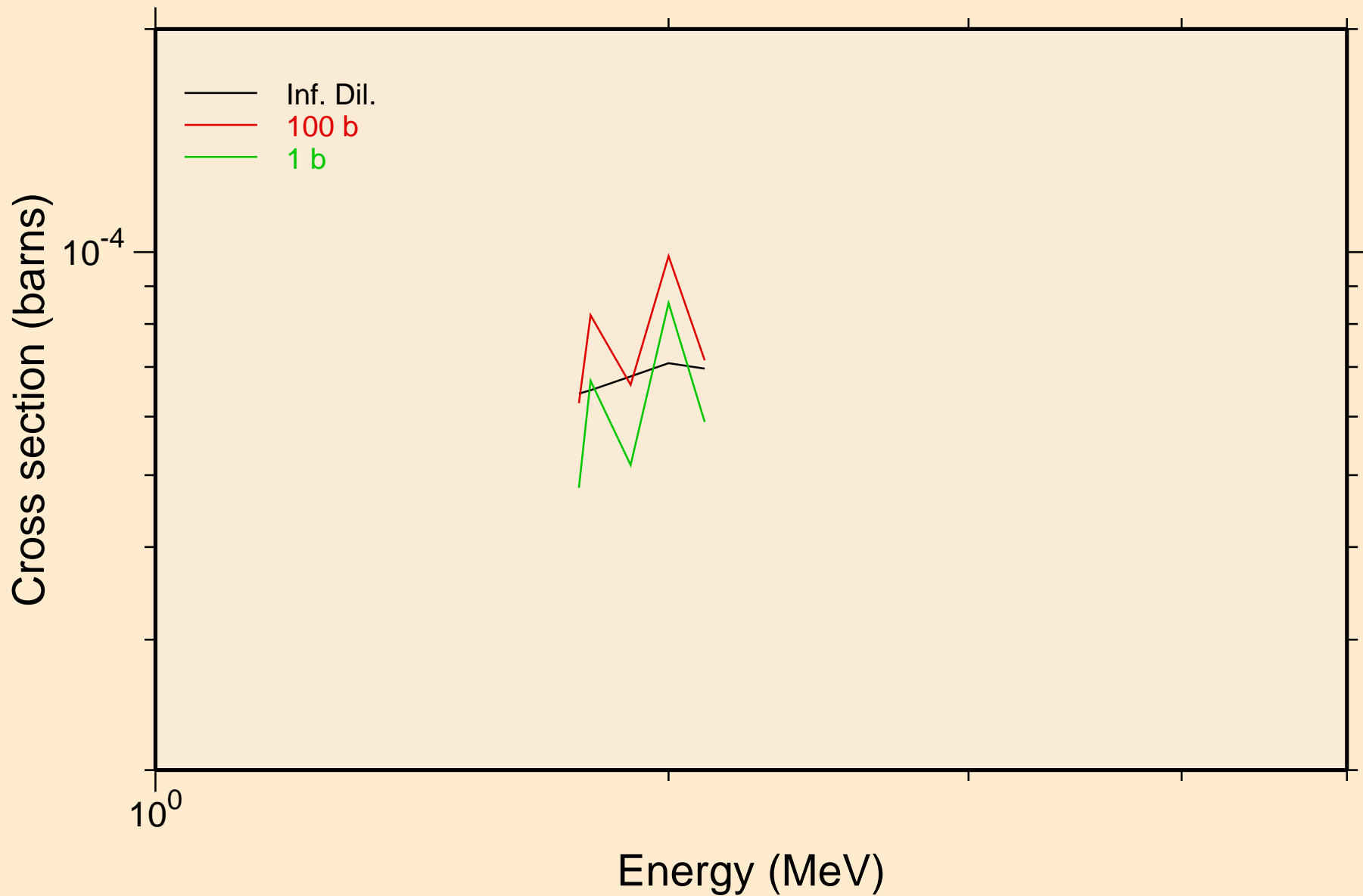
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UR total cross section



MAT=1631 ACE FILE PRODUCED AT NEA WITH NDEC  
UR elastic cross section

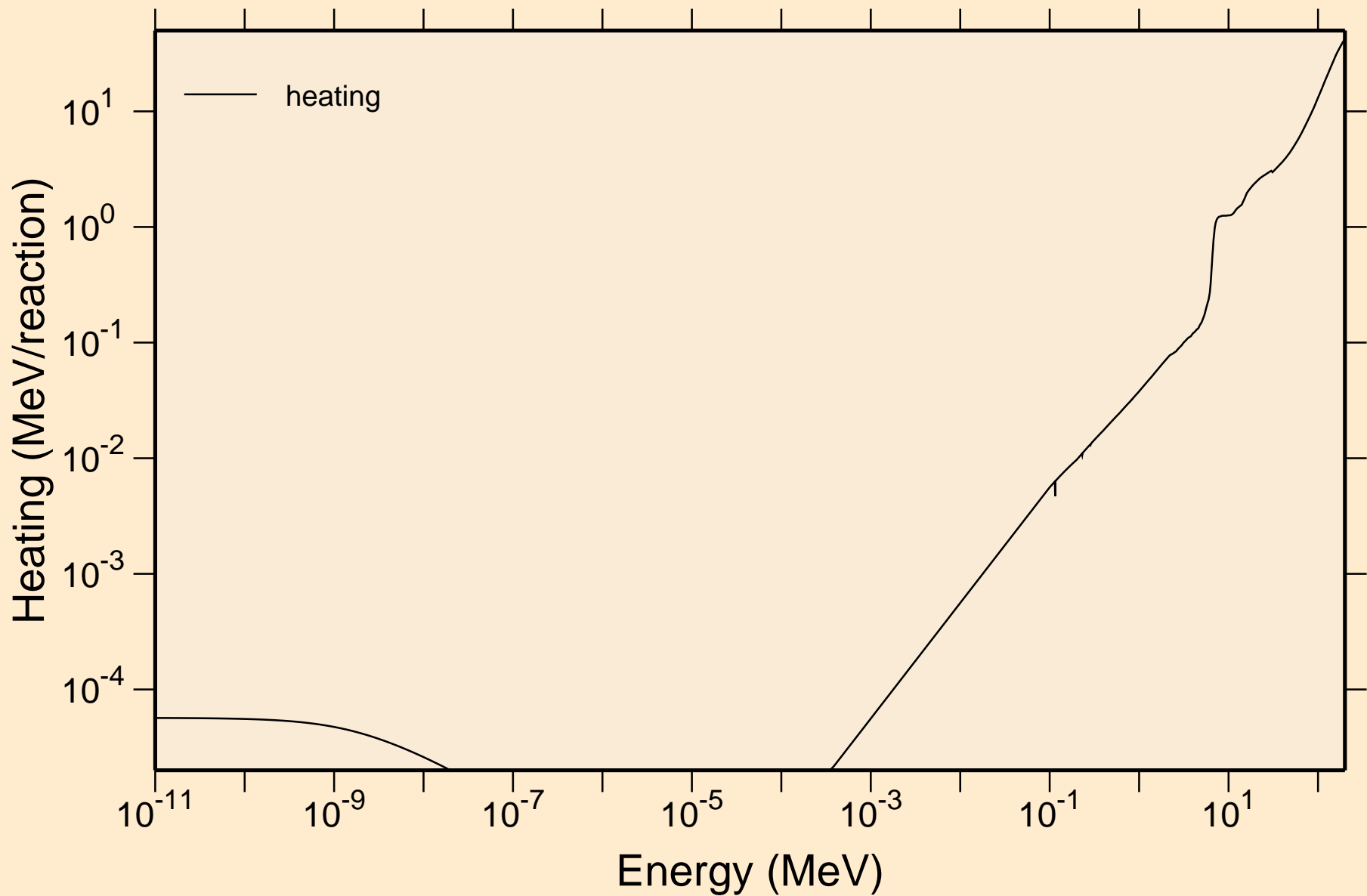


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UR capture cross section

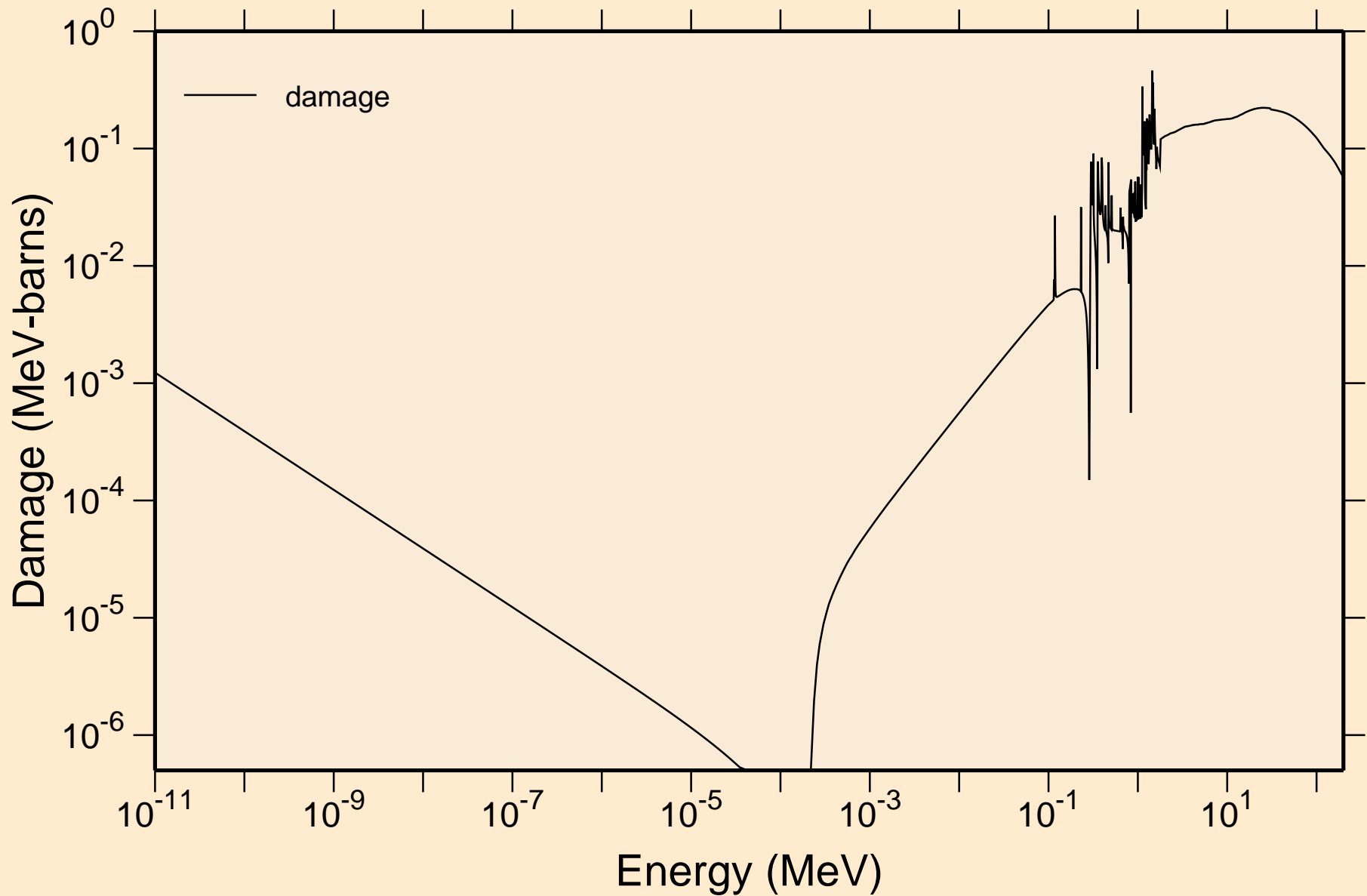




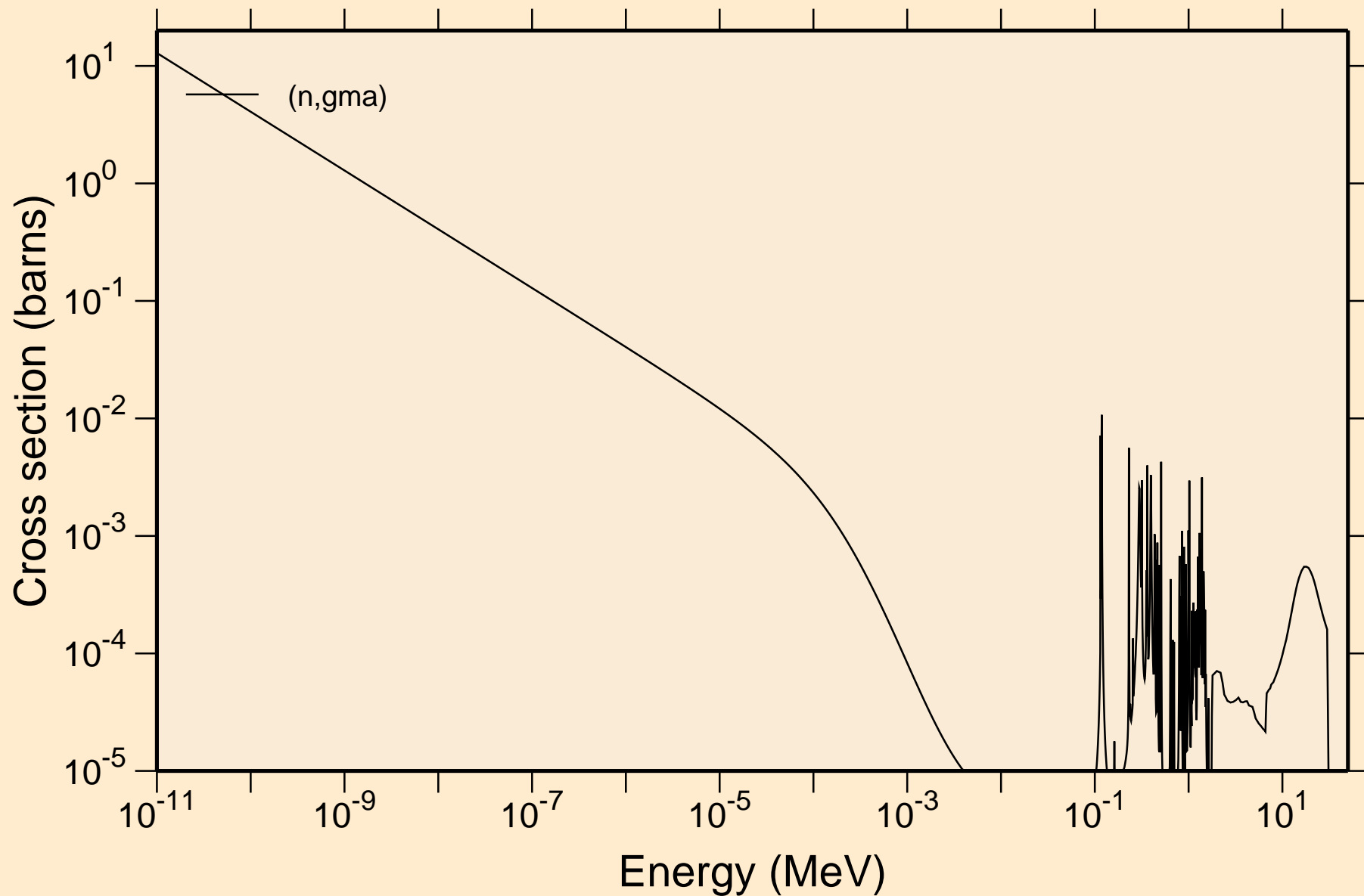
MAT=1631 ACE FILE PRODUCED AT NEA WITH NDEC  
Heating



MAT=1631 ACE FILE PRODUCED AT NEA WITH NDEC  
Damage

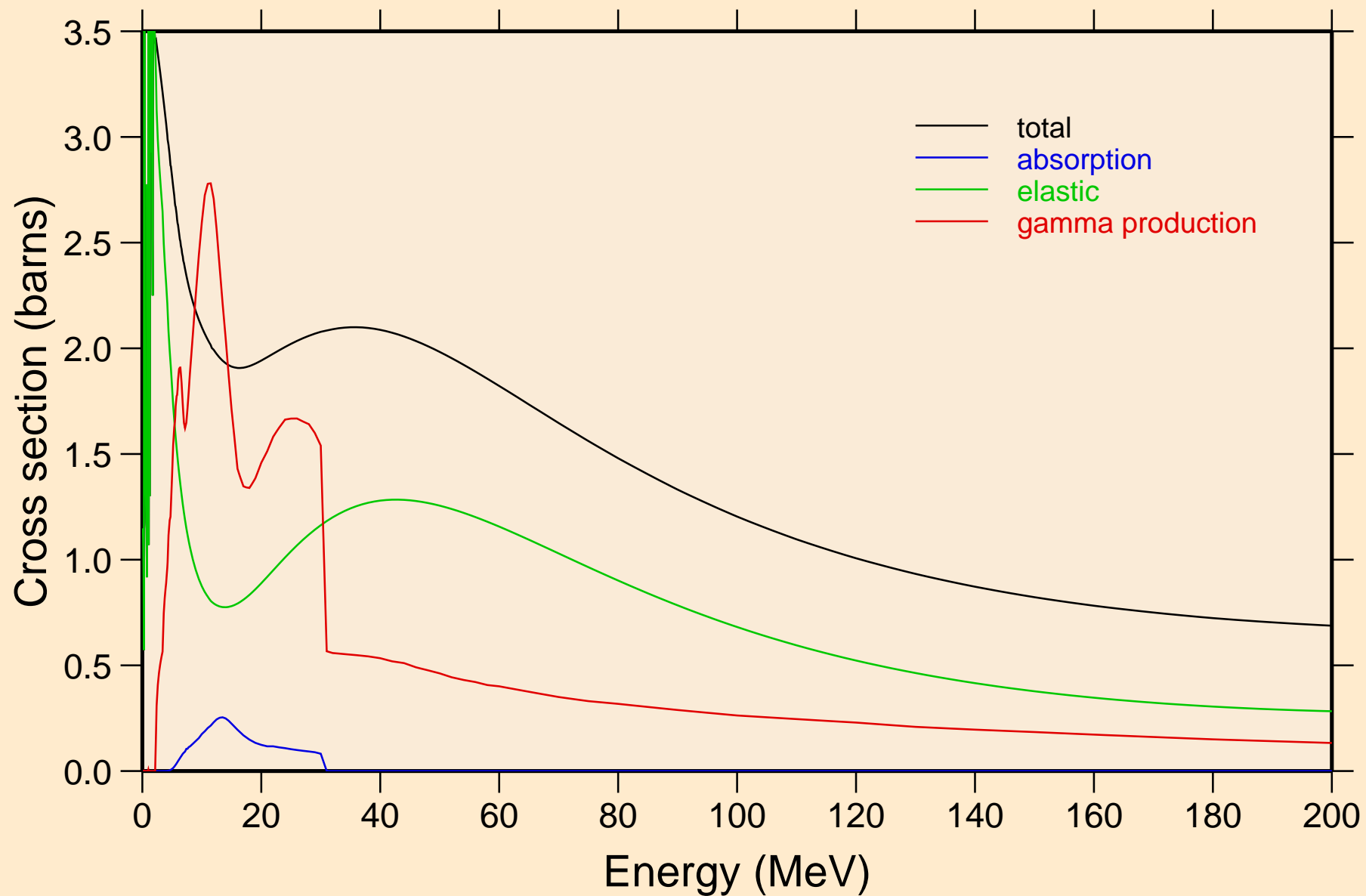


MAT=1631 ACE FILE PRODUCED AT NEA WITH NDEC  
Non-threshold reactions

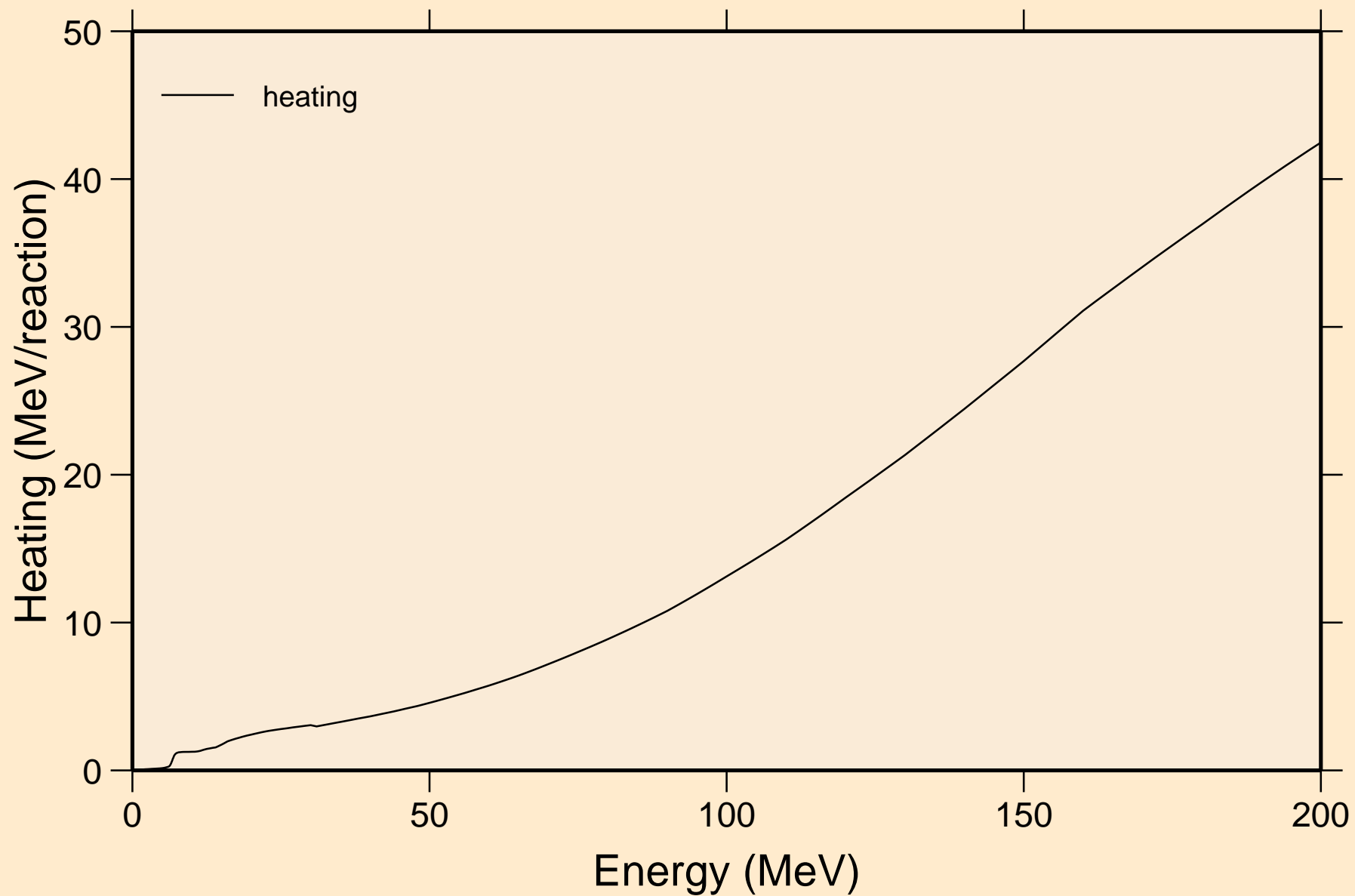


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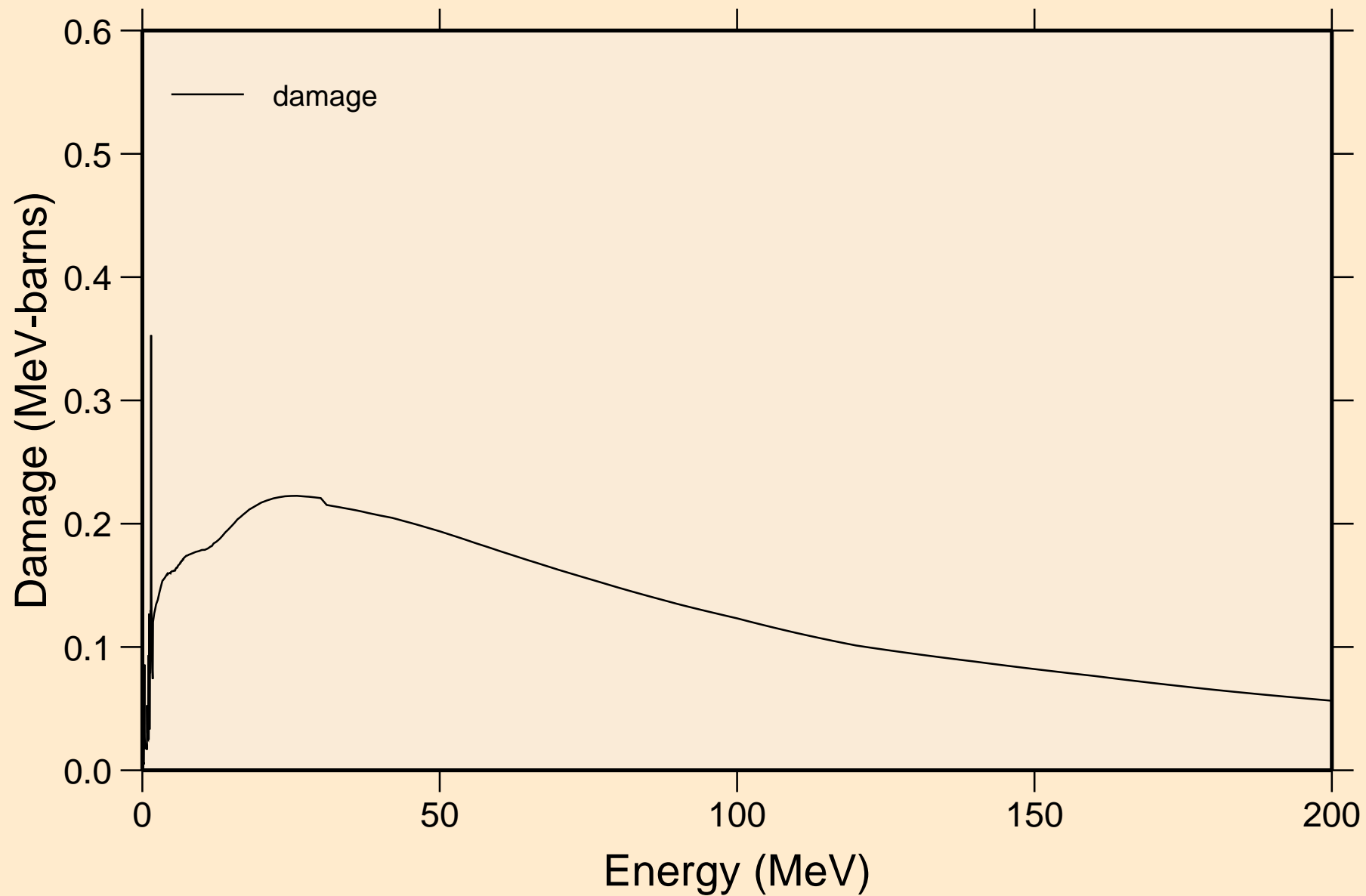
## Principal cross sections



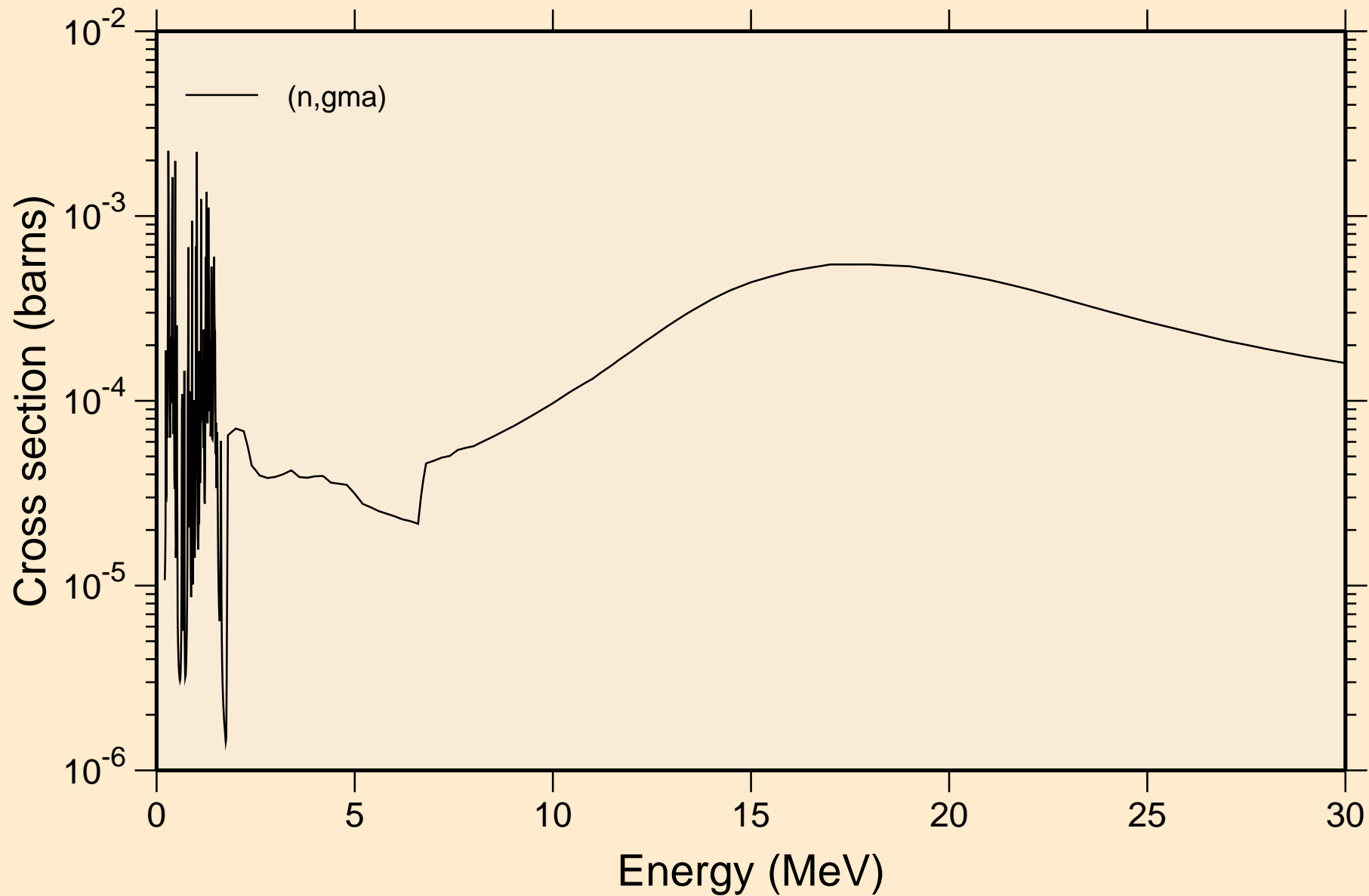
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Heating



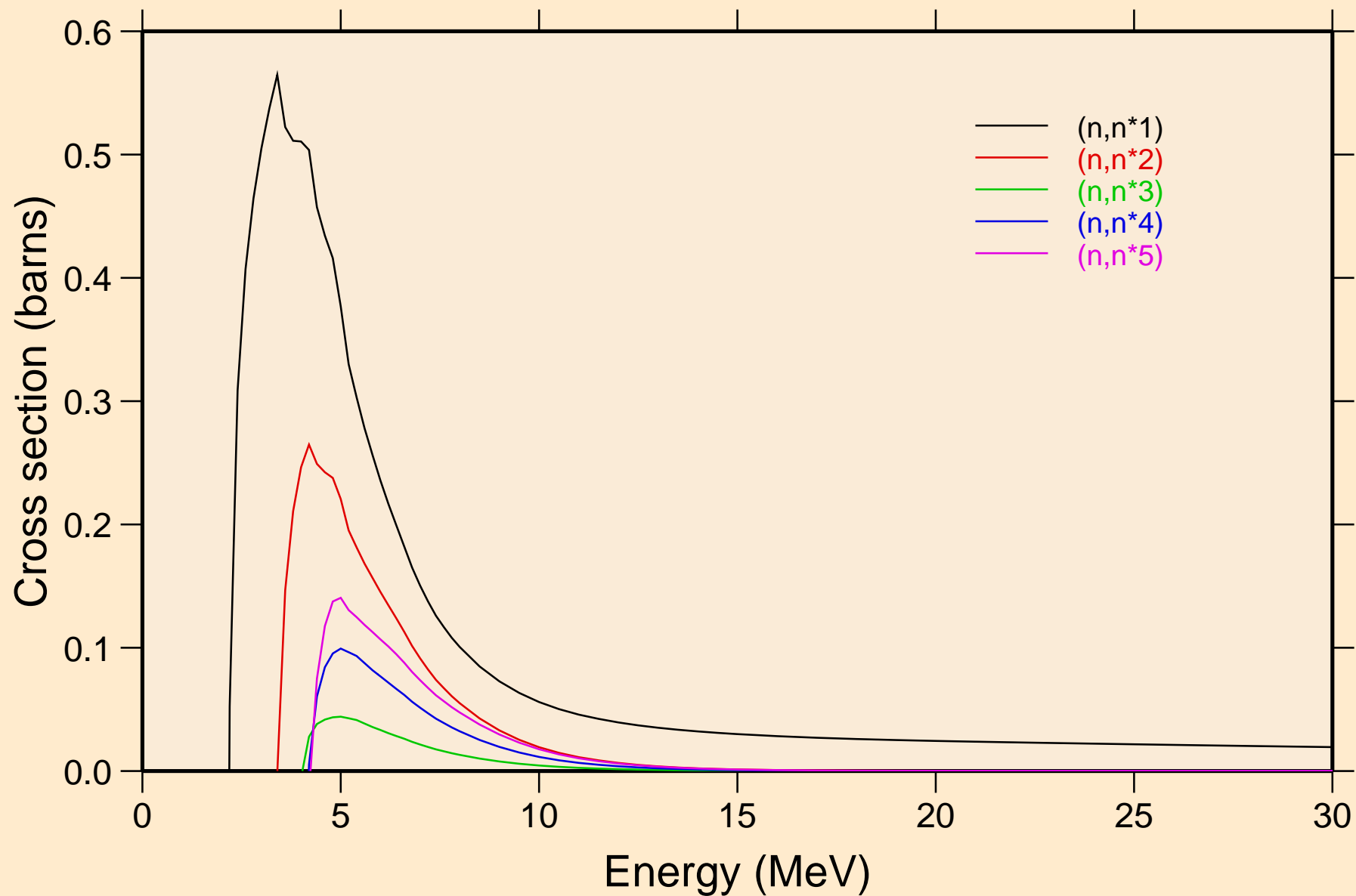
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Damage



MAT=1631 ACE FILE PRODUCED AT NEA WITH NDEC  
Non-threshold reactions

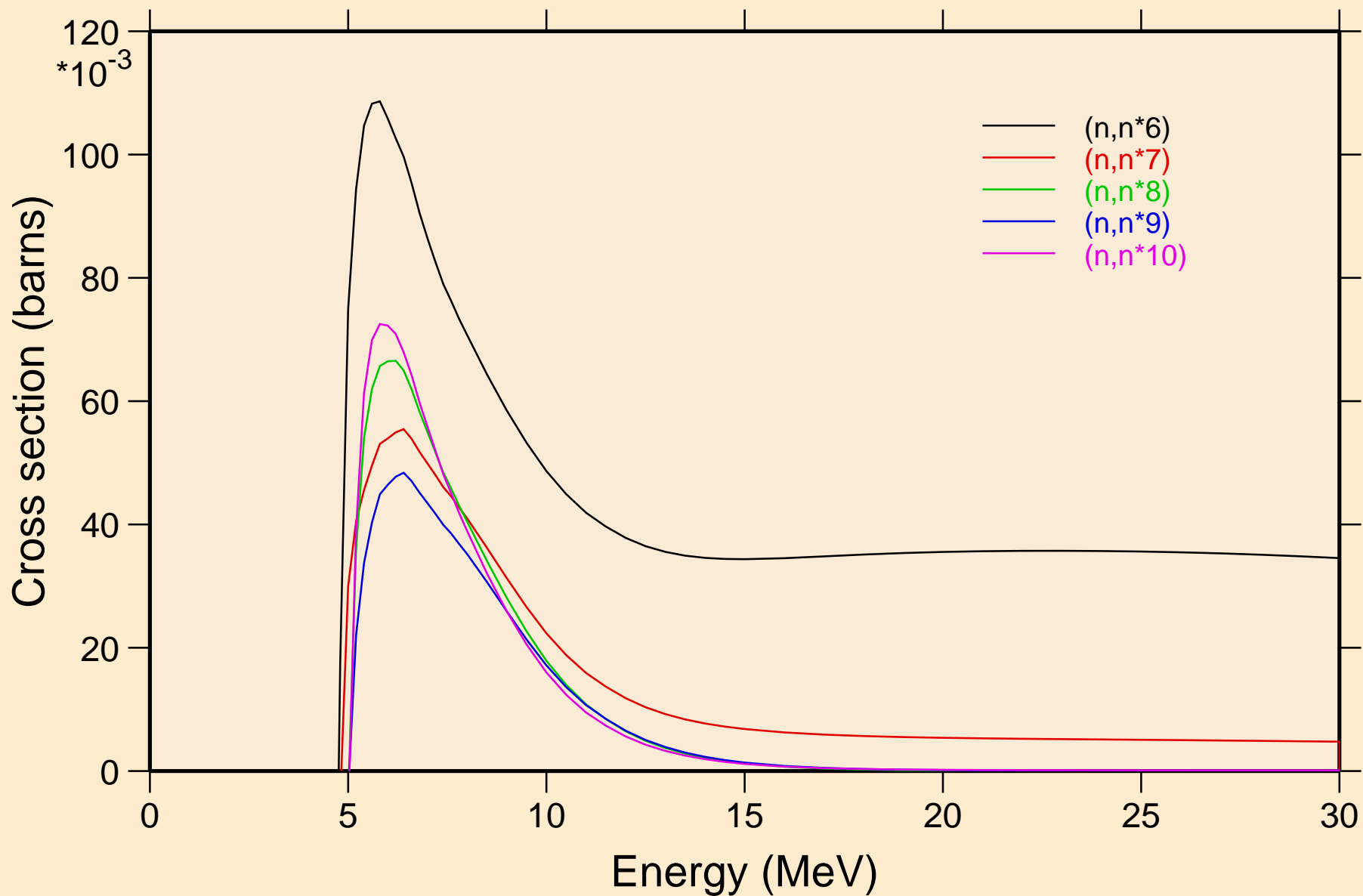


MAT=1631 ACE FILE PRODUCED AT NEA WITH NDEC  
Inelastic levels

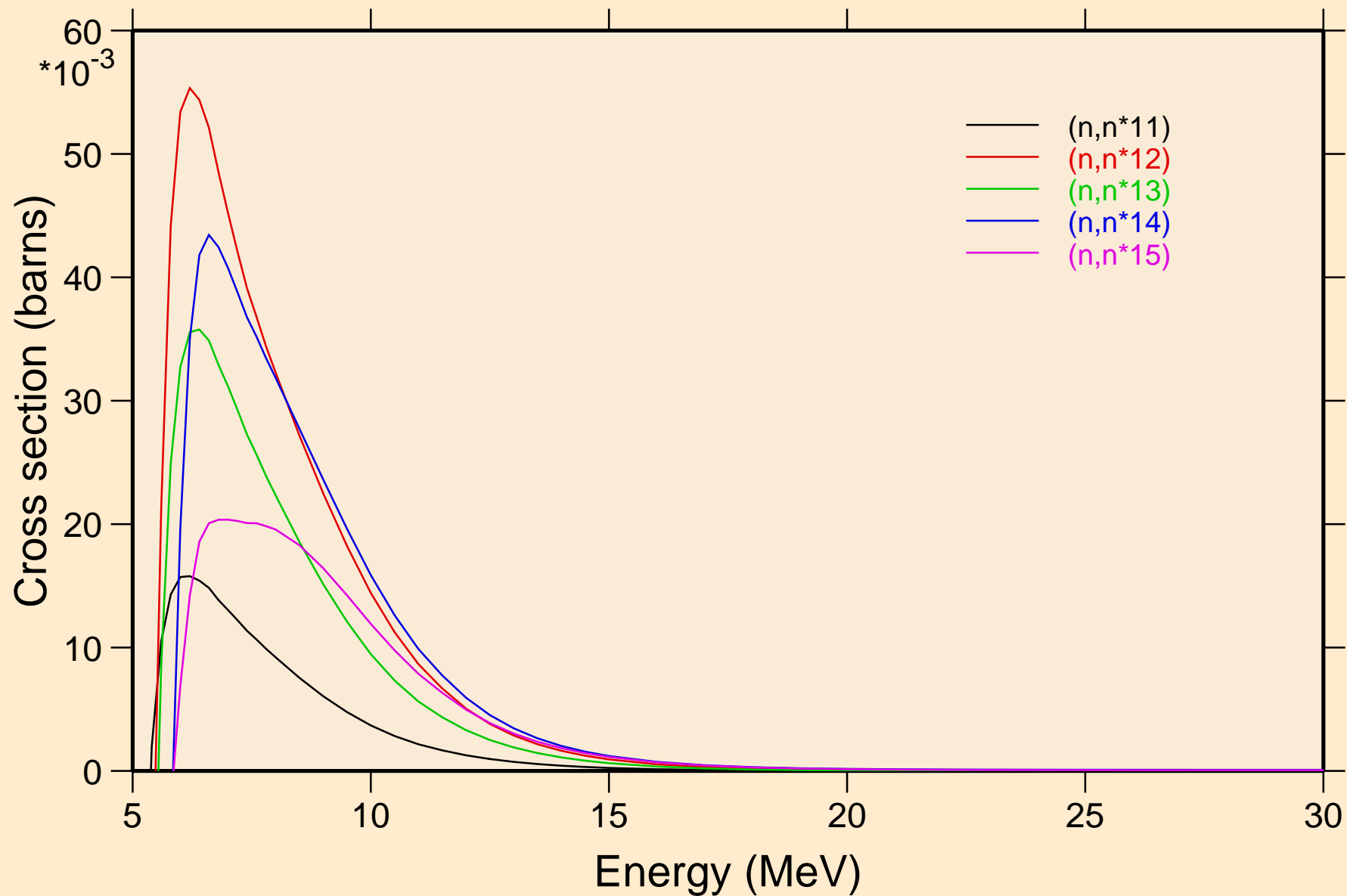




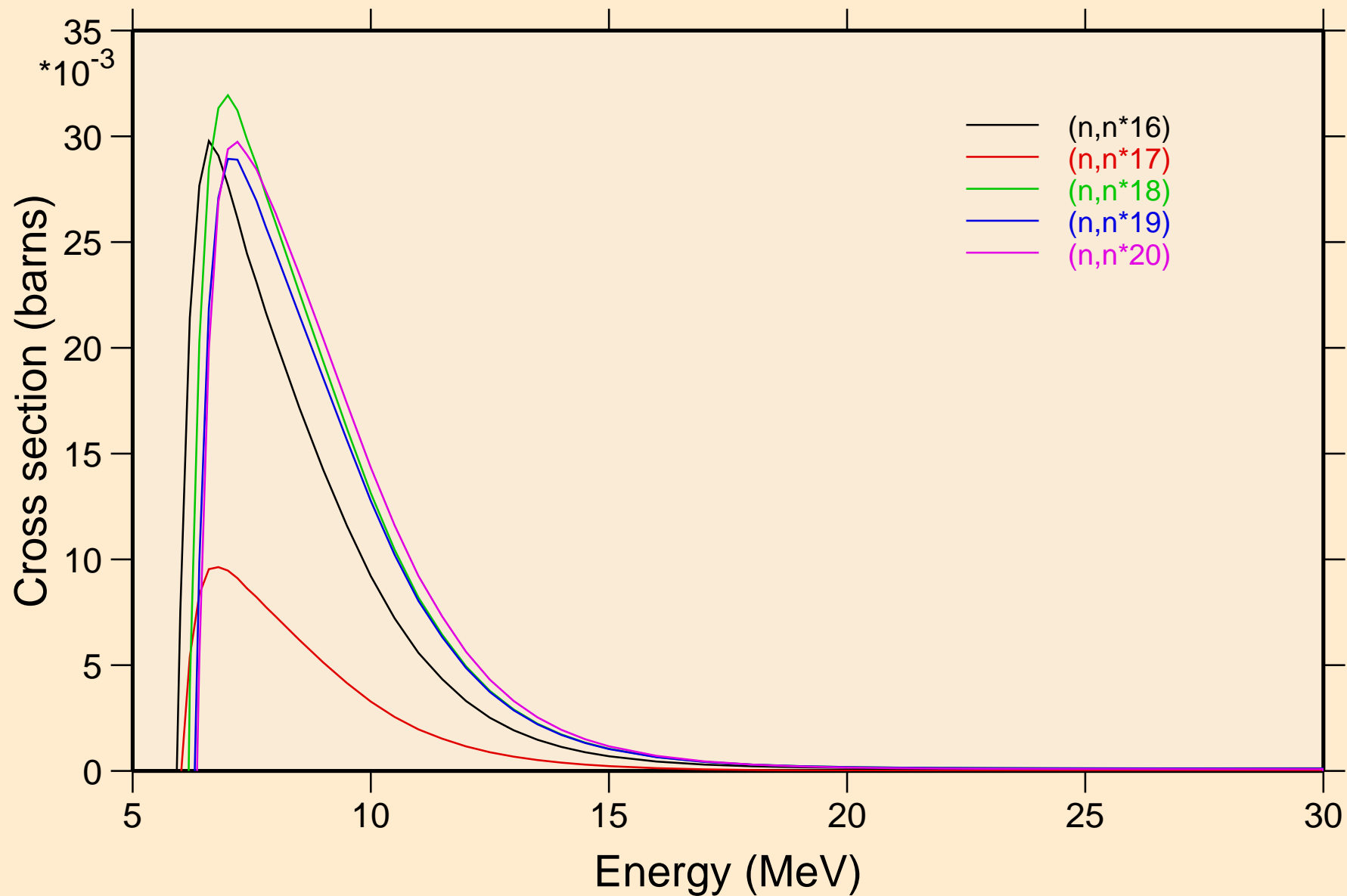
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Inelastic levels



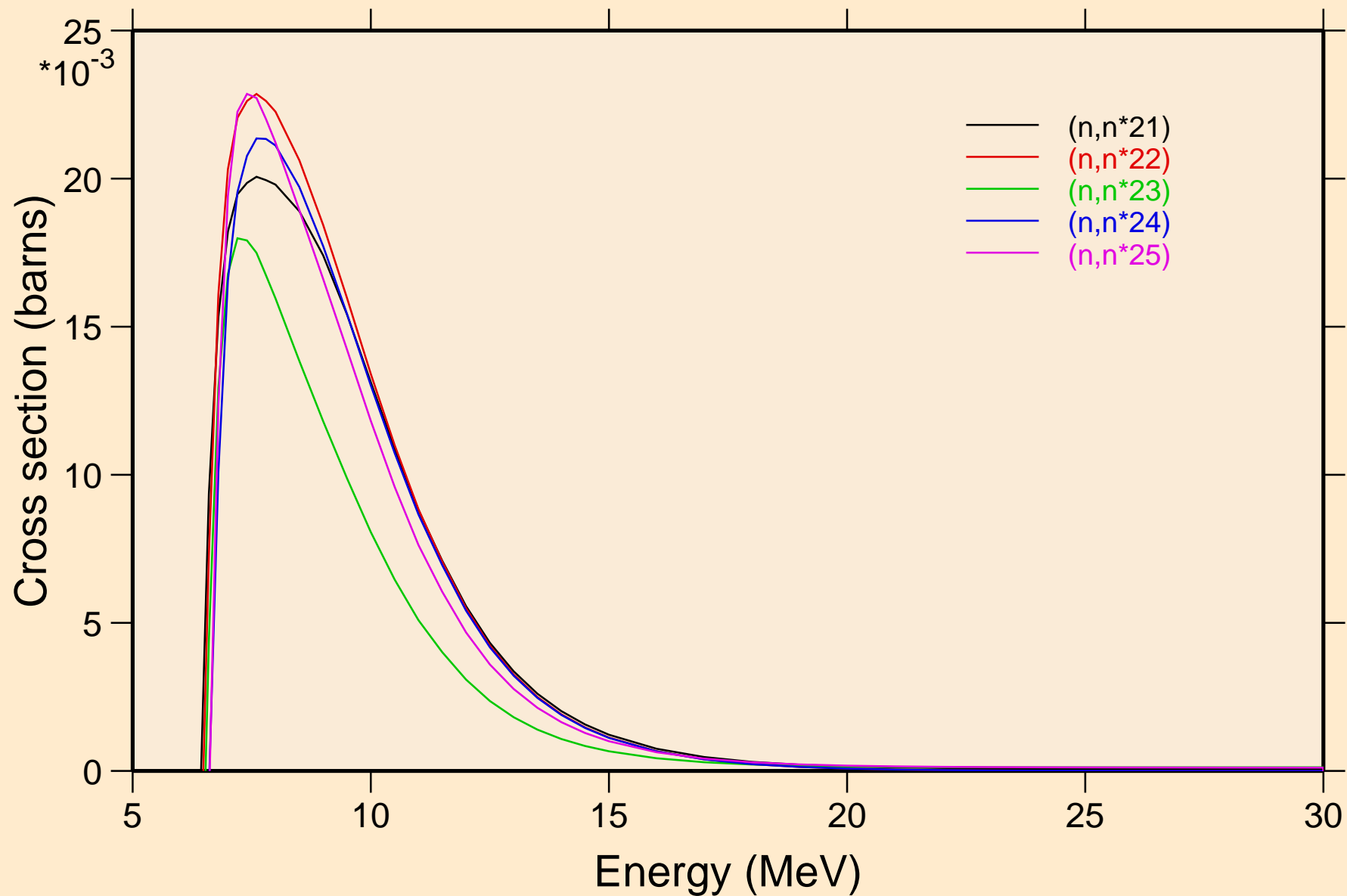
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Inelastic levels



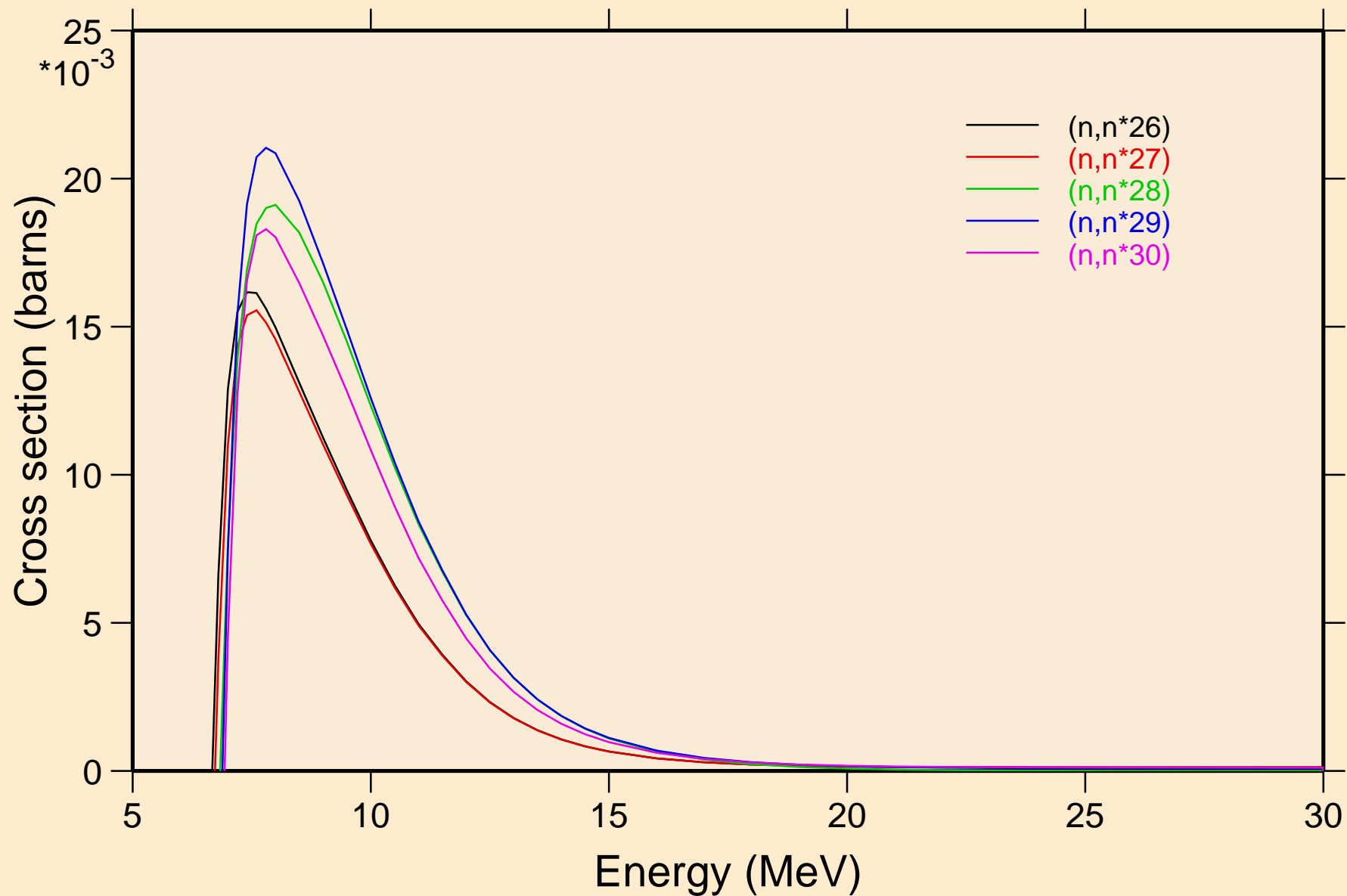
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Inelastic levels



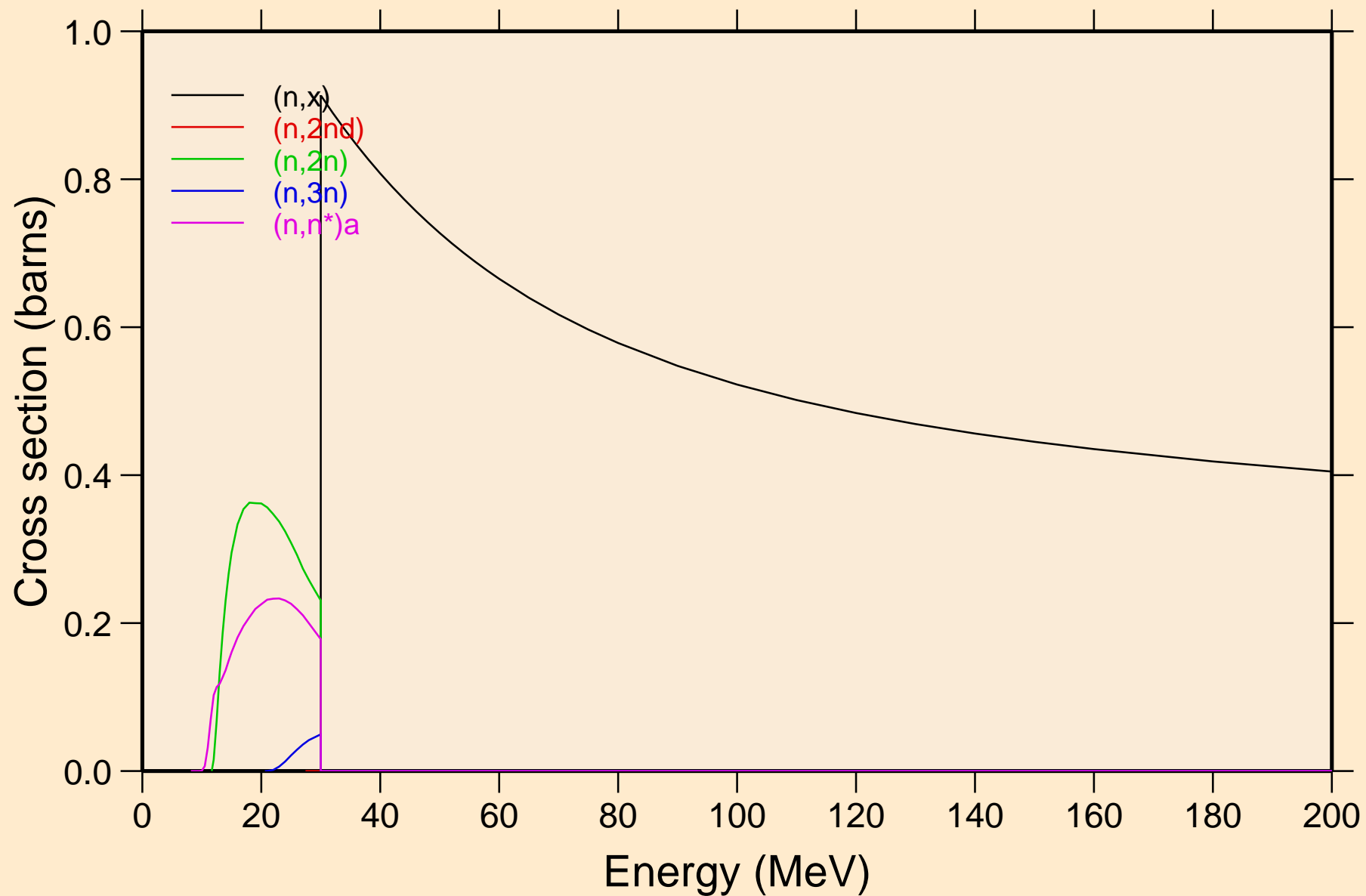
MAT=1631 ACE FILE PRODUCED AT NEA WITH NDEC  
Inelastic levels



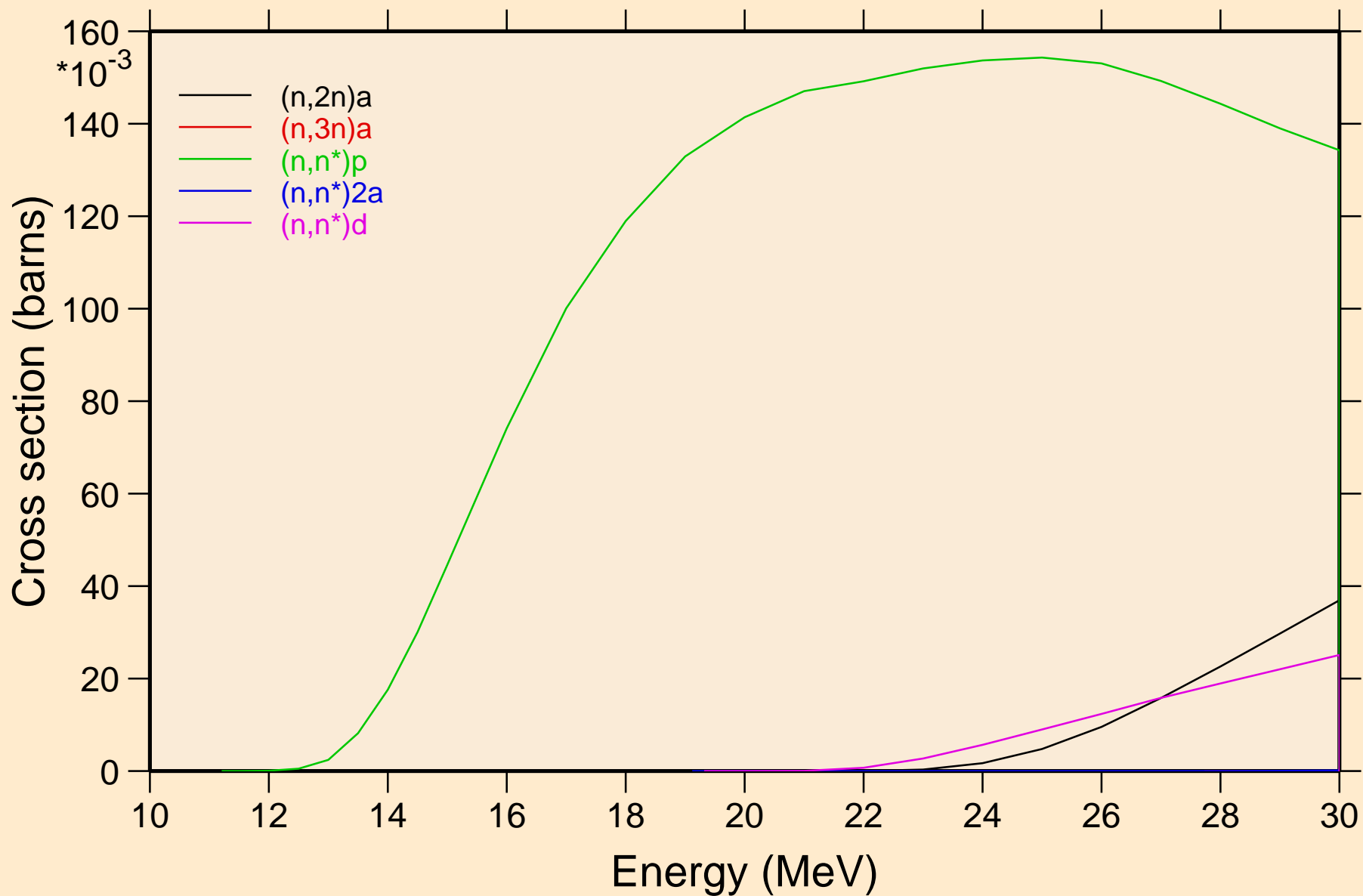
MAT=1631 ACE FILE PRODUCED AT NEA WITH NDEC  
Inelastic levels



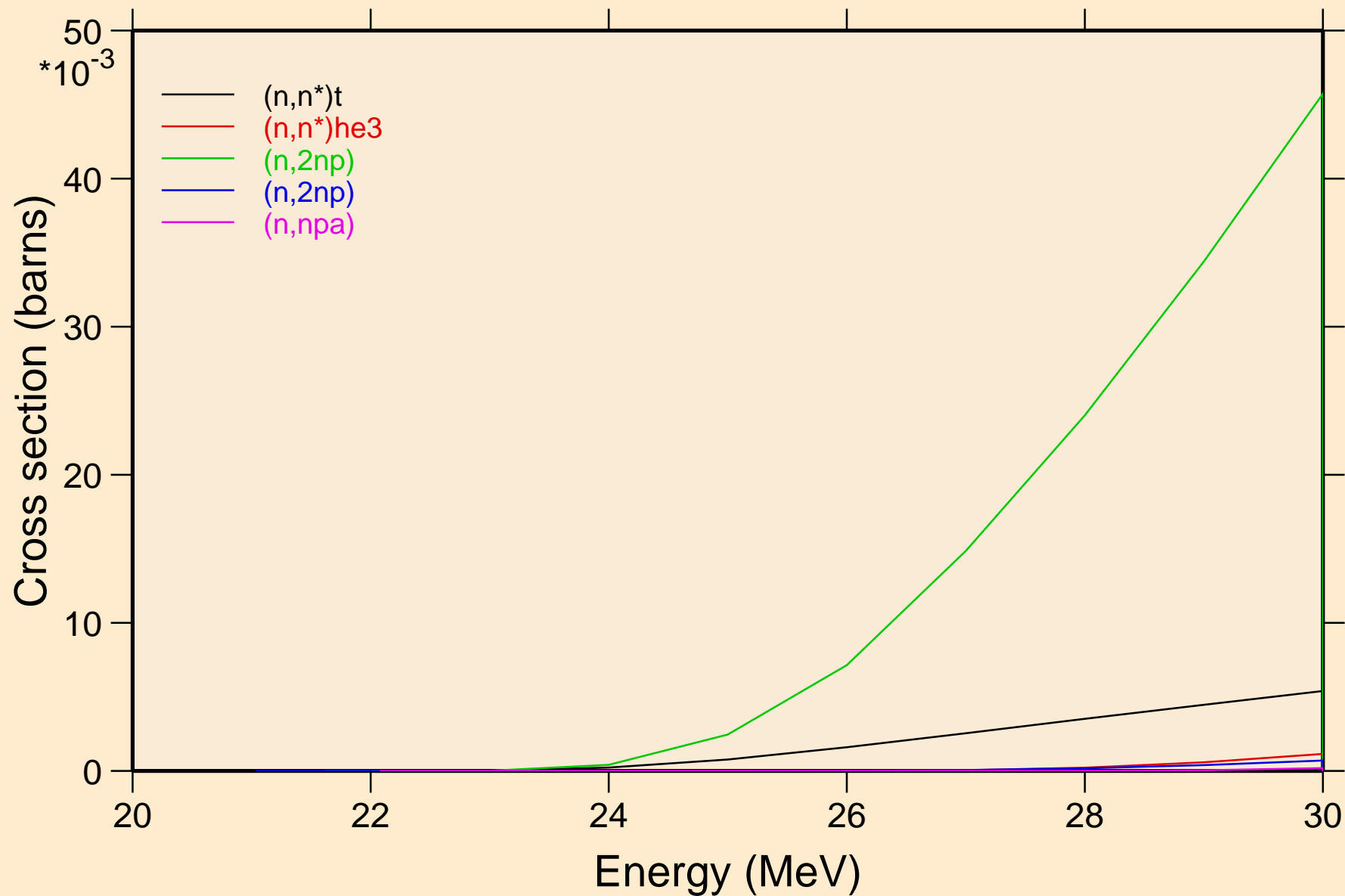
MAT=1631 ACE FILE PRODUCED AT NEA WITH NDEC  
Threshold reactions



MAT=1631 ACE FILE PRODUCED AT NEA WITH NDEC  
Threshold reactions

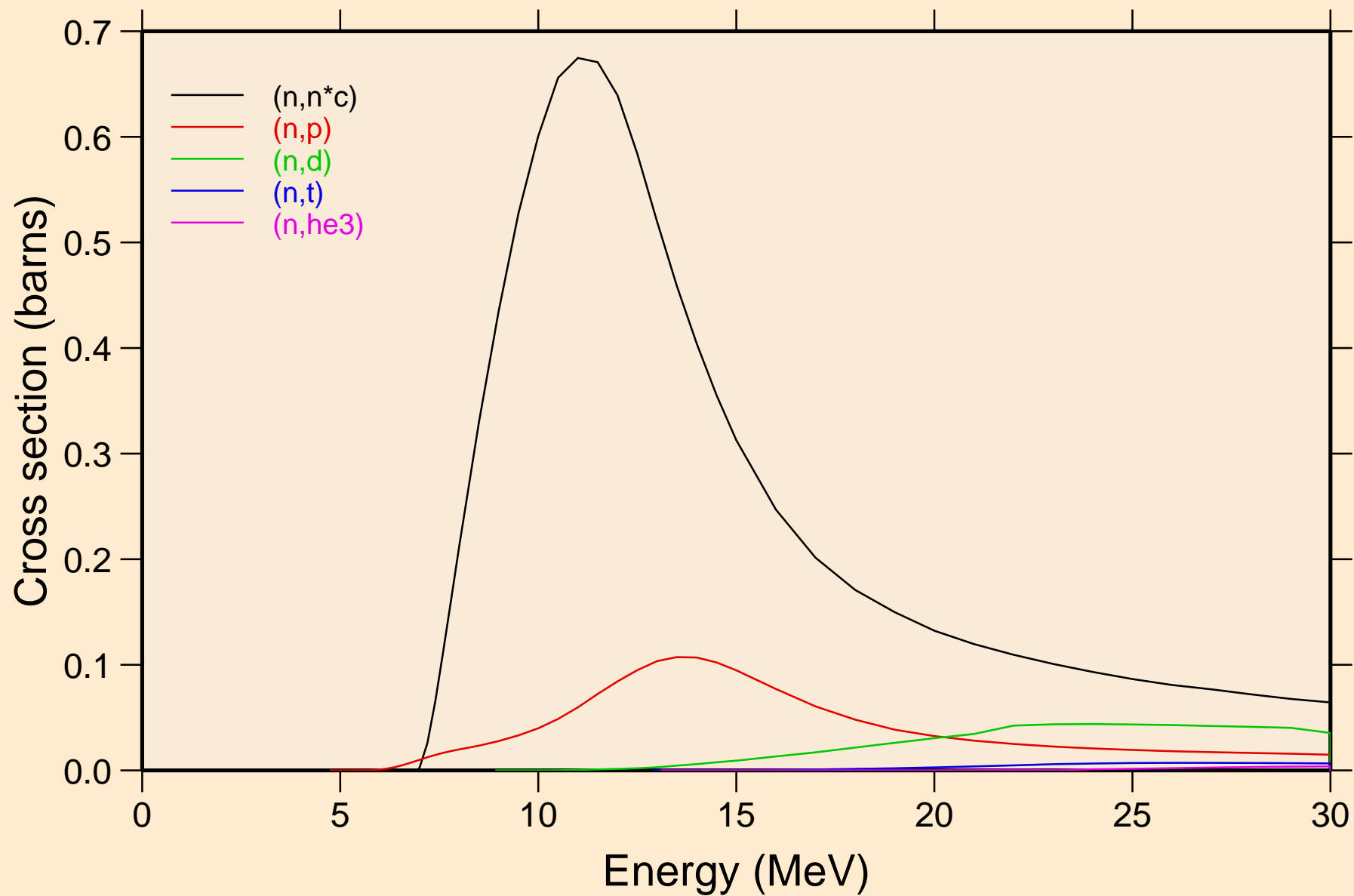


MAT=1631 ACE FILE PRODUCED AT NEA WITH NDEC  
Threshold reactions

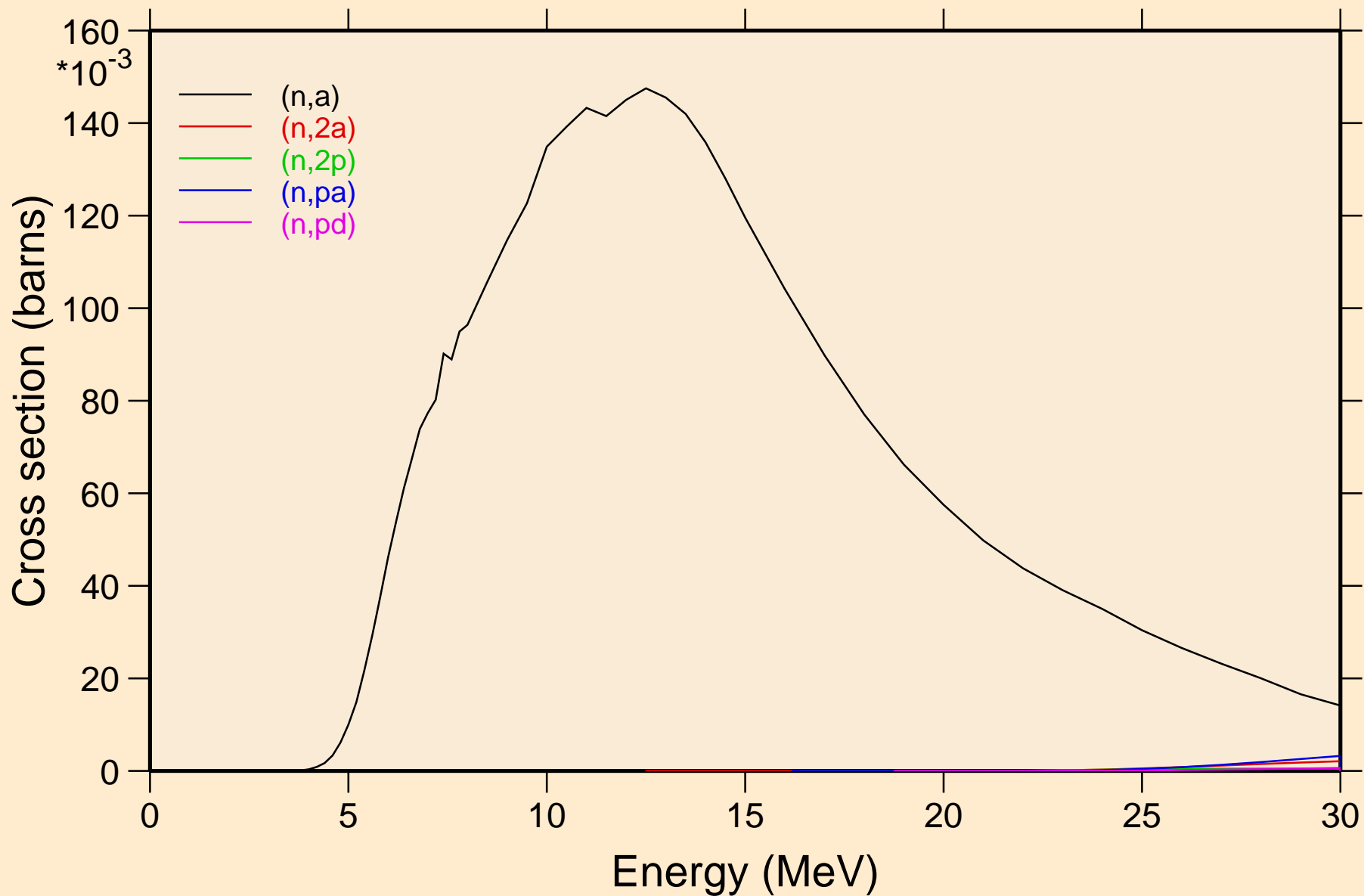




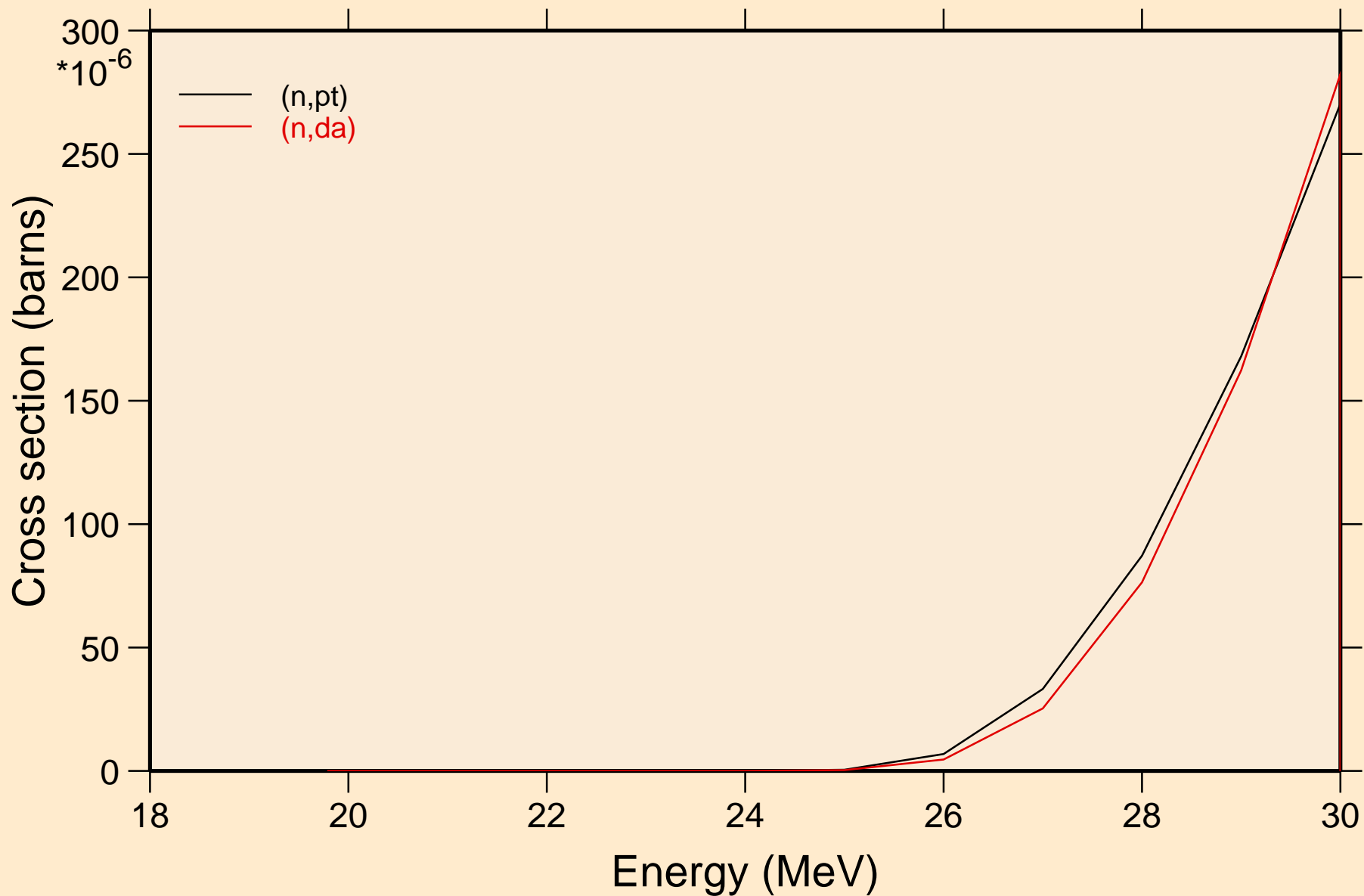
MAT=1631 ACE FILE PRODUCED AT NEA WITH NDEC  
Threshold reactions



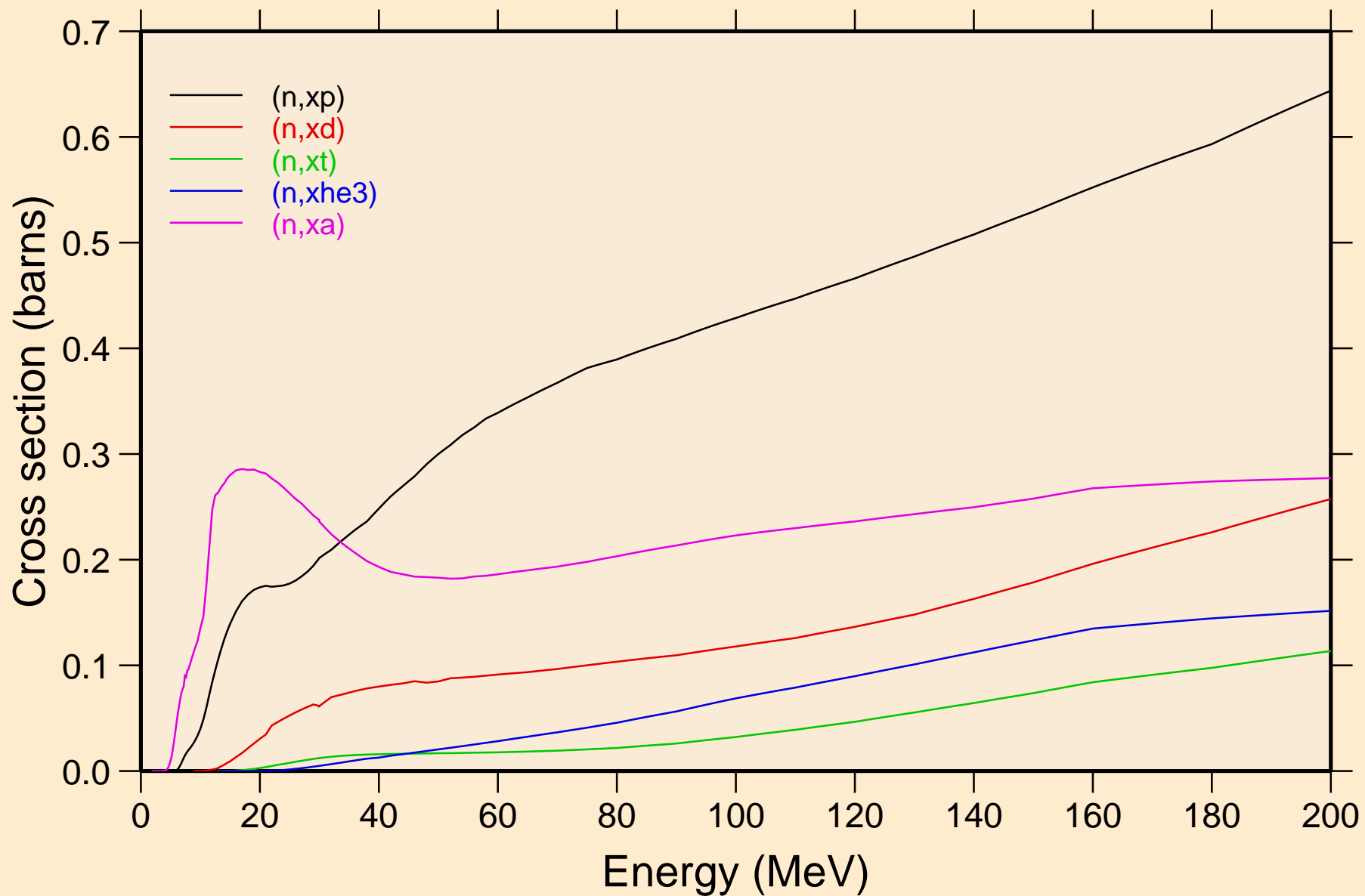
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Threshold reactions



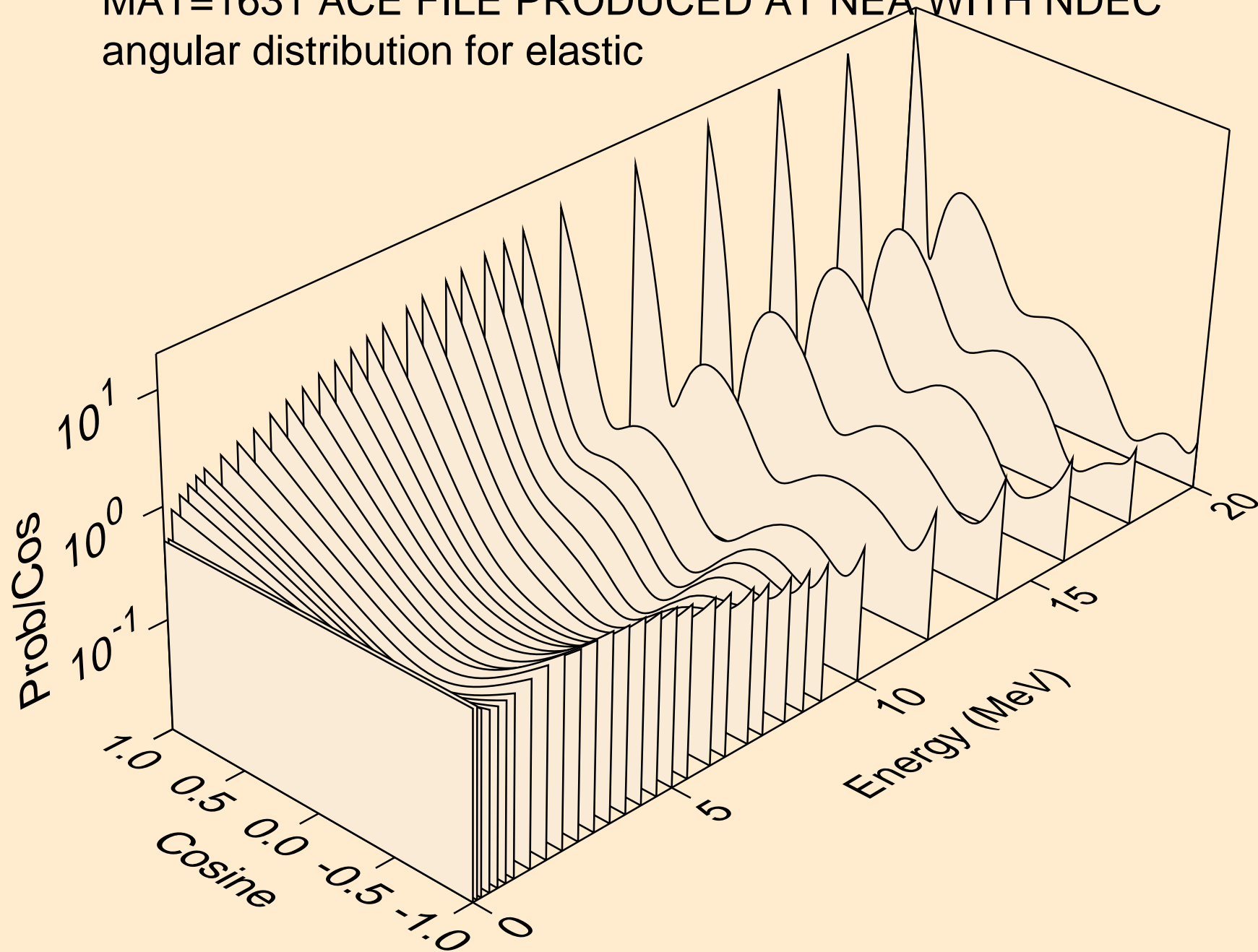
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Threshold reactions



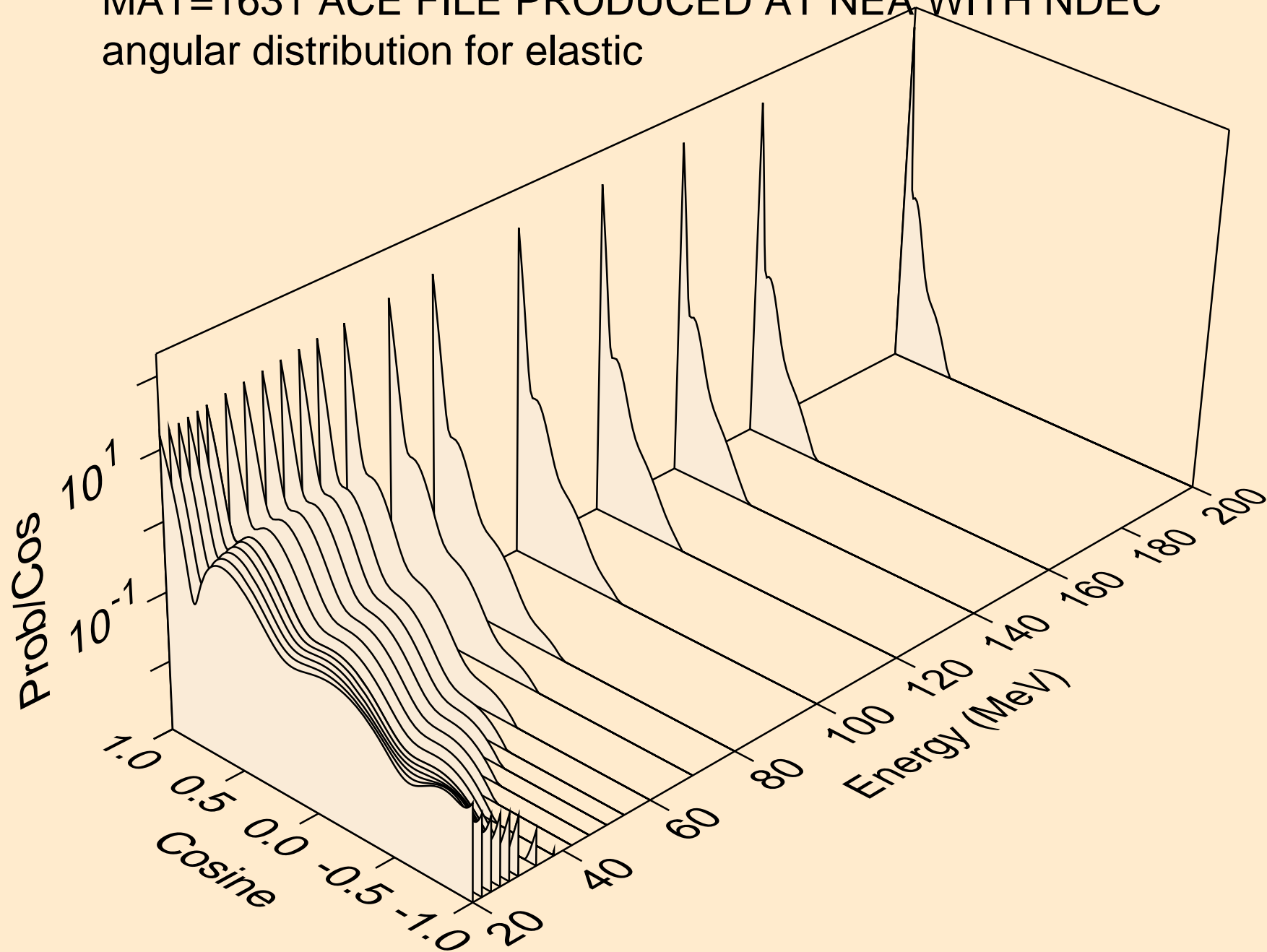
MAT=1631 ACE FILE PRODUCED AT NEA WITH NDEC  
Threshold reactions



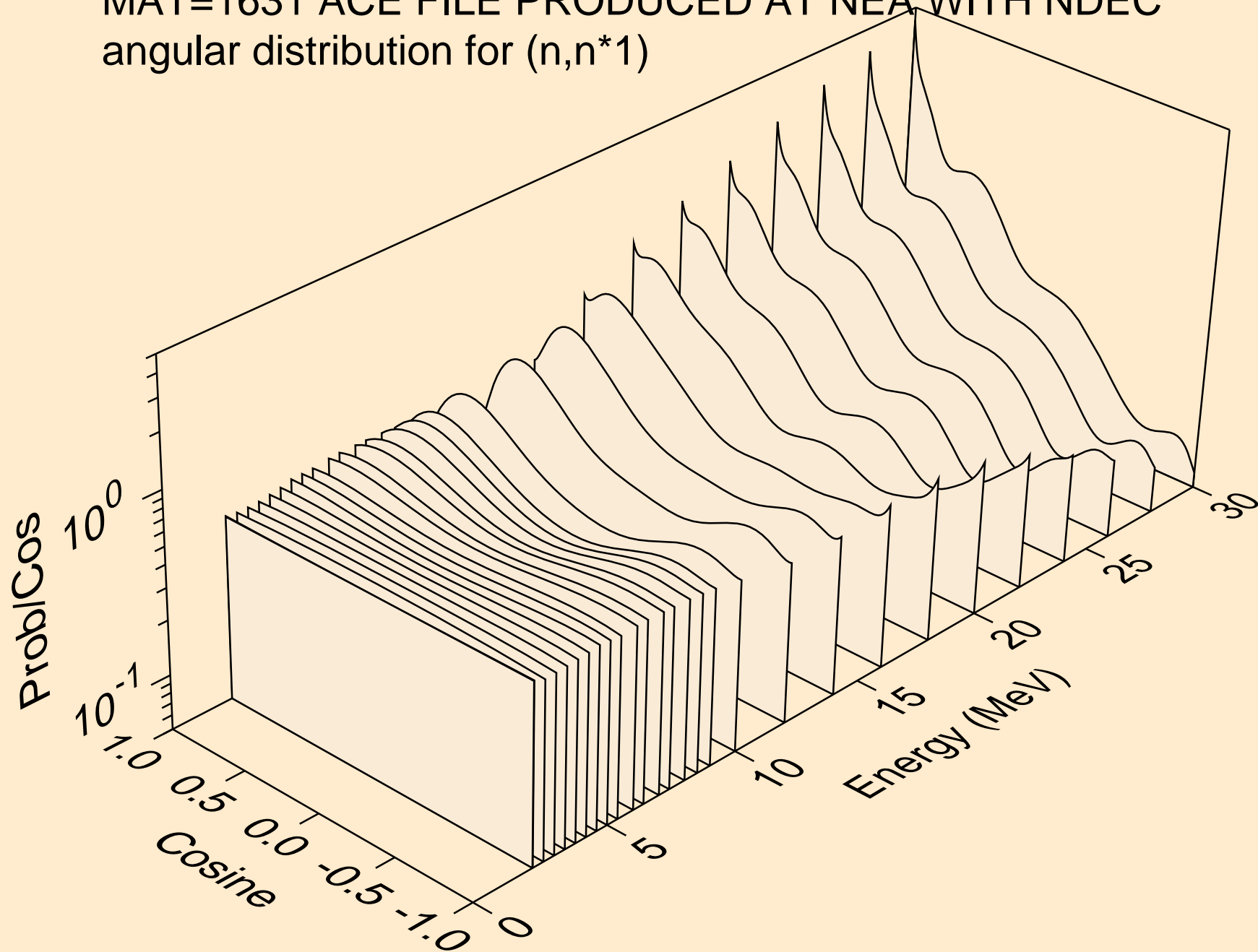
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angular distribution for elastic



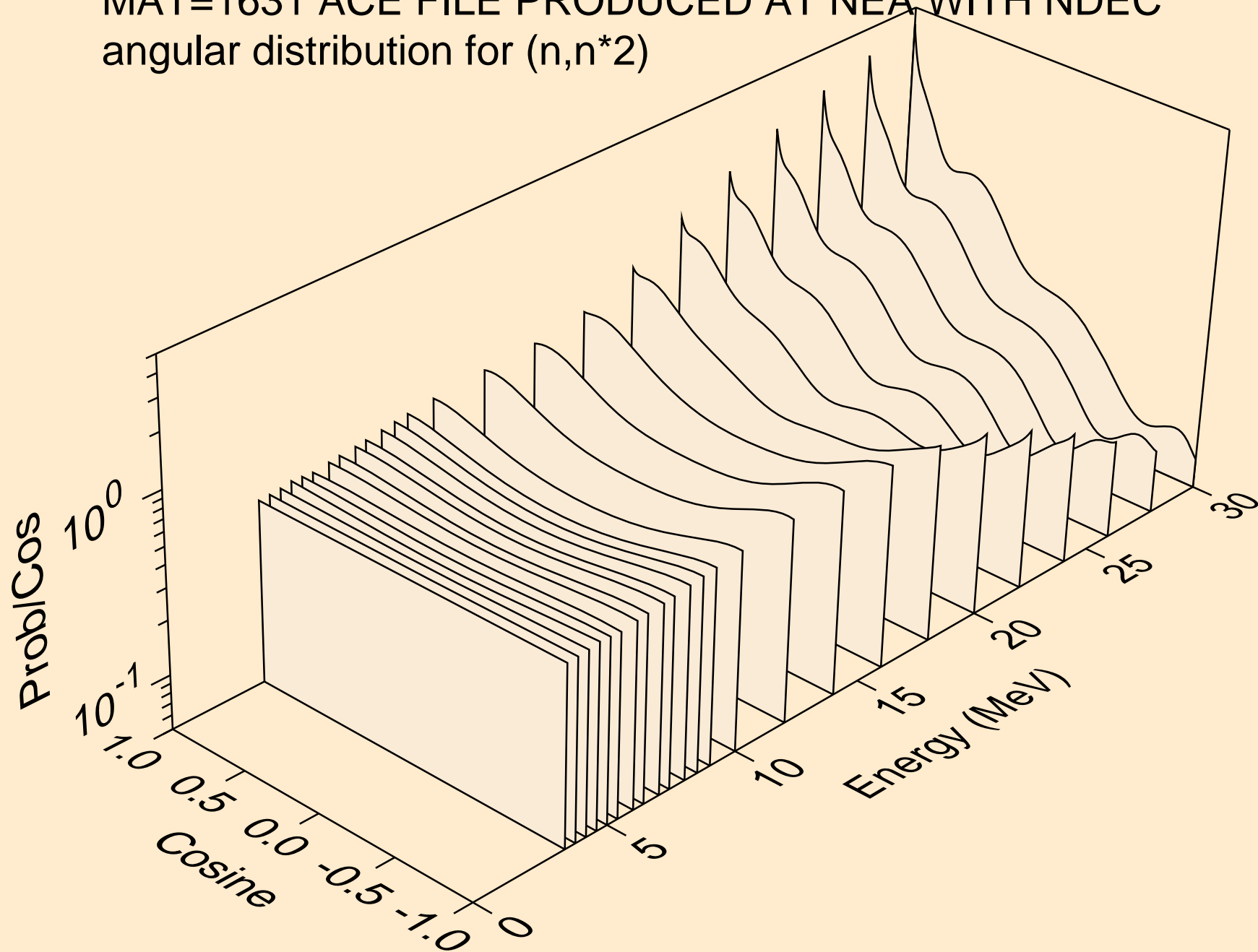
MAT=1631 ACE FILE PRODUCED AT NEA WITH NDEC  
angular distribution for elastic



MAT=1631 ACE FILE PRODUCED AT NEA WITH NDEC  
angular distribution for (n,n\*1)

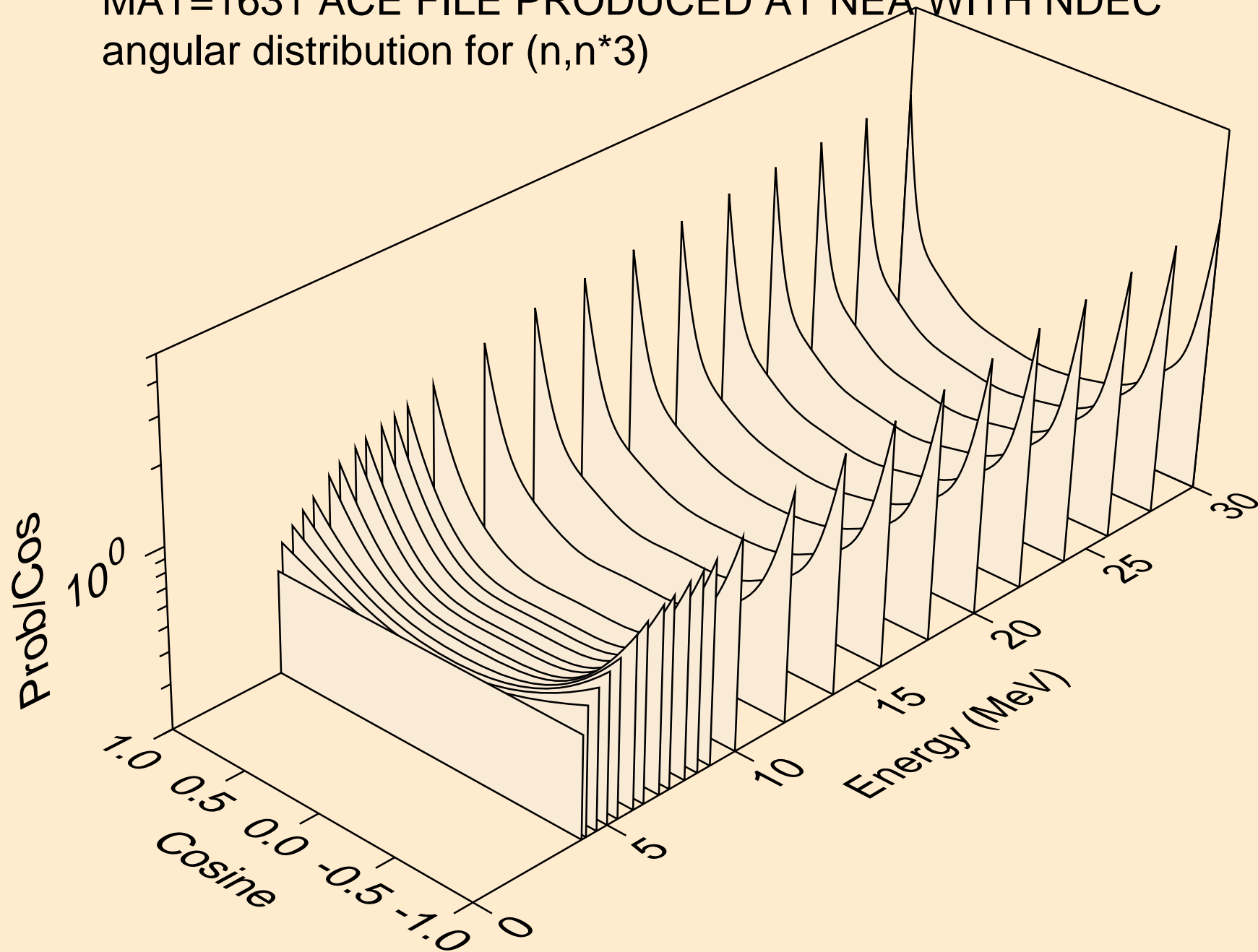


MAT=1631 ACE FILE PRODUCED AT NEA WITH NDEC  
angular distribution for (n,n\*2)

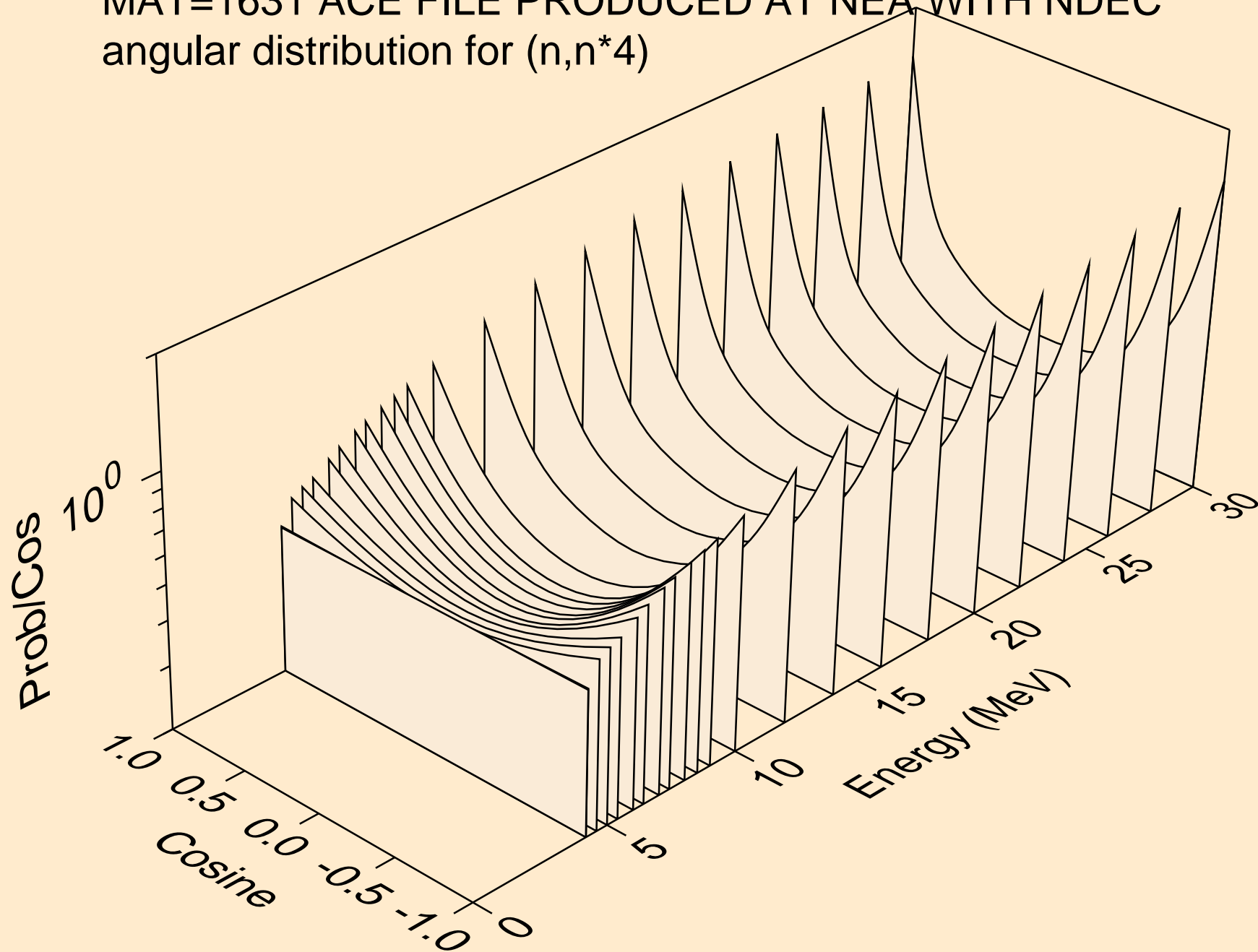




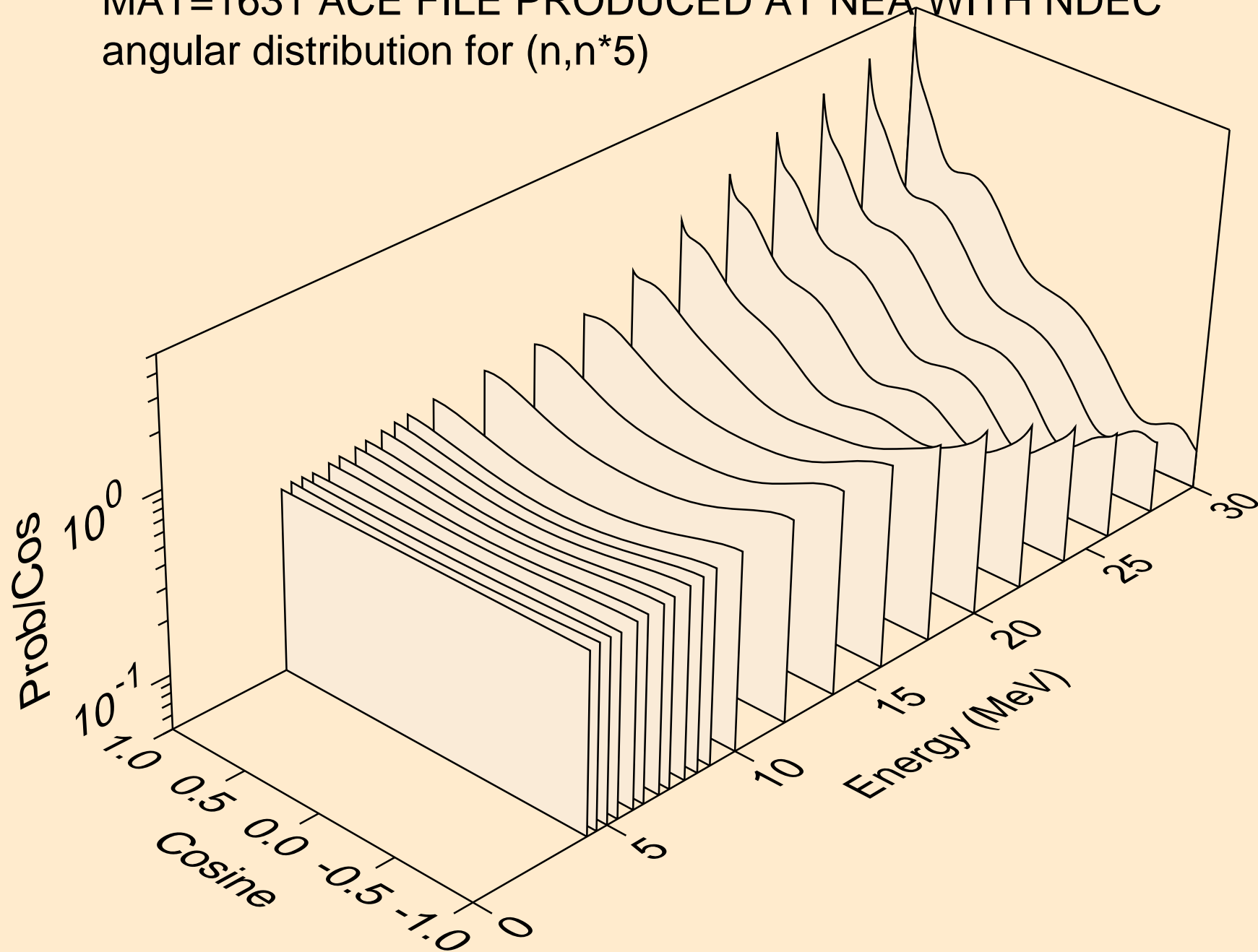
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angular distribution for (n,n\*3)



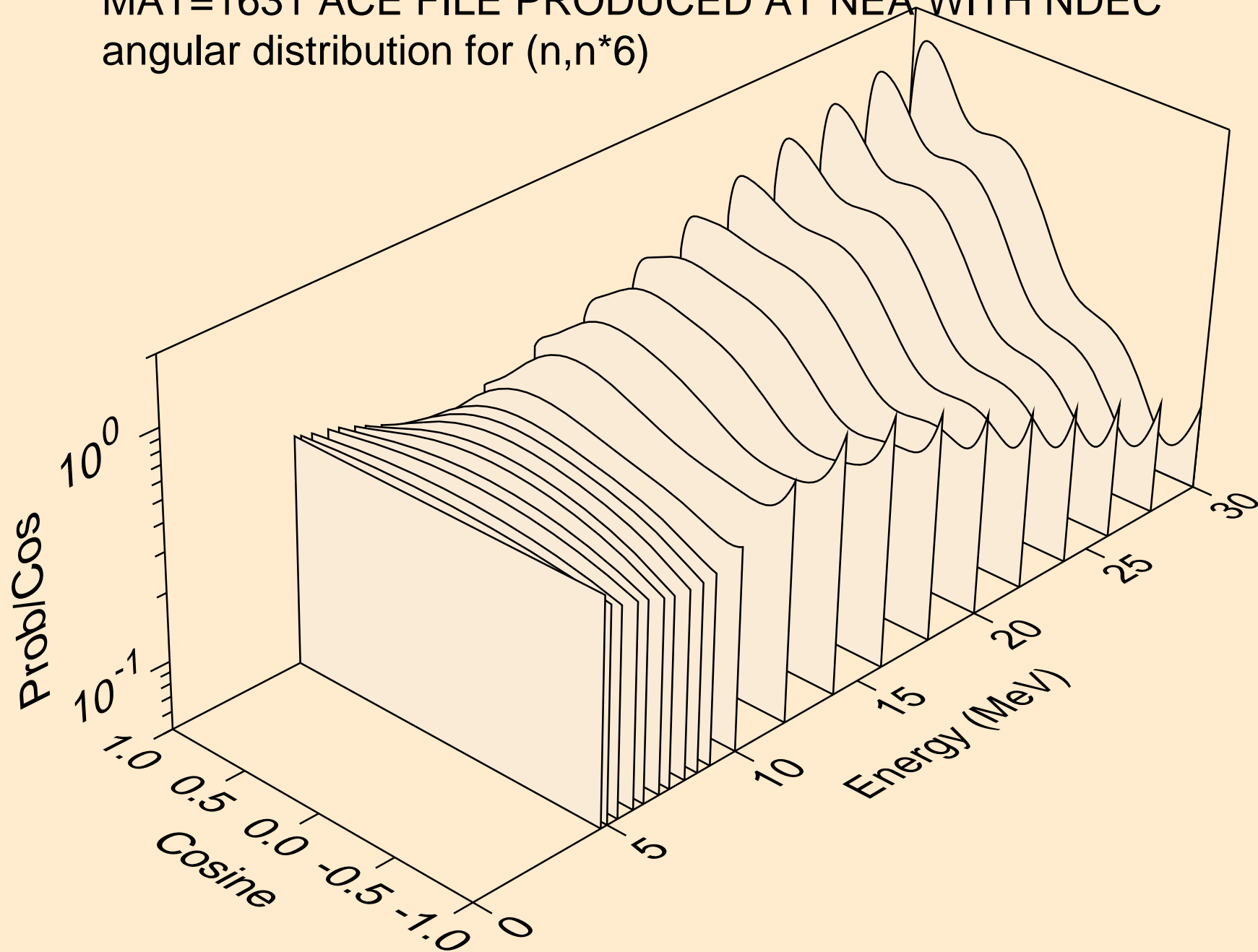
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angular distribution for (n,n\*4)



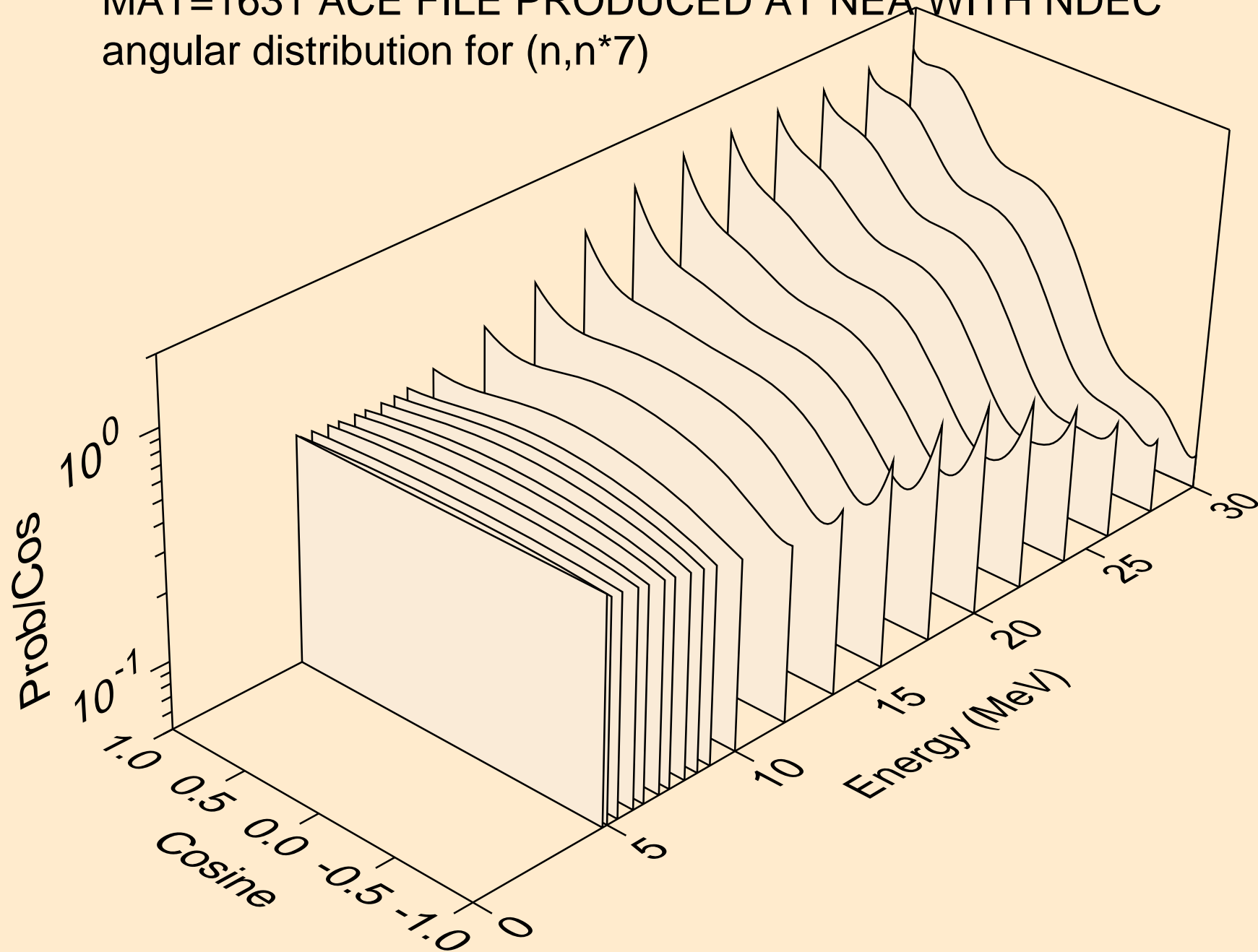
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angular distribution for (n,n\*5)



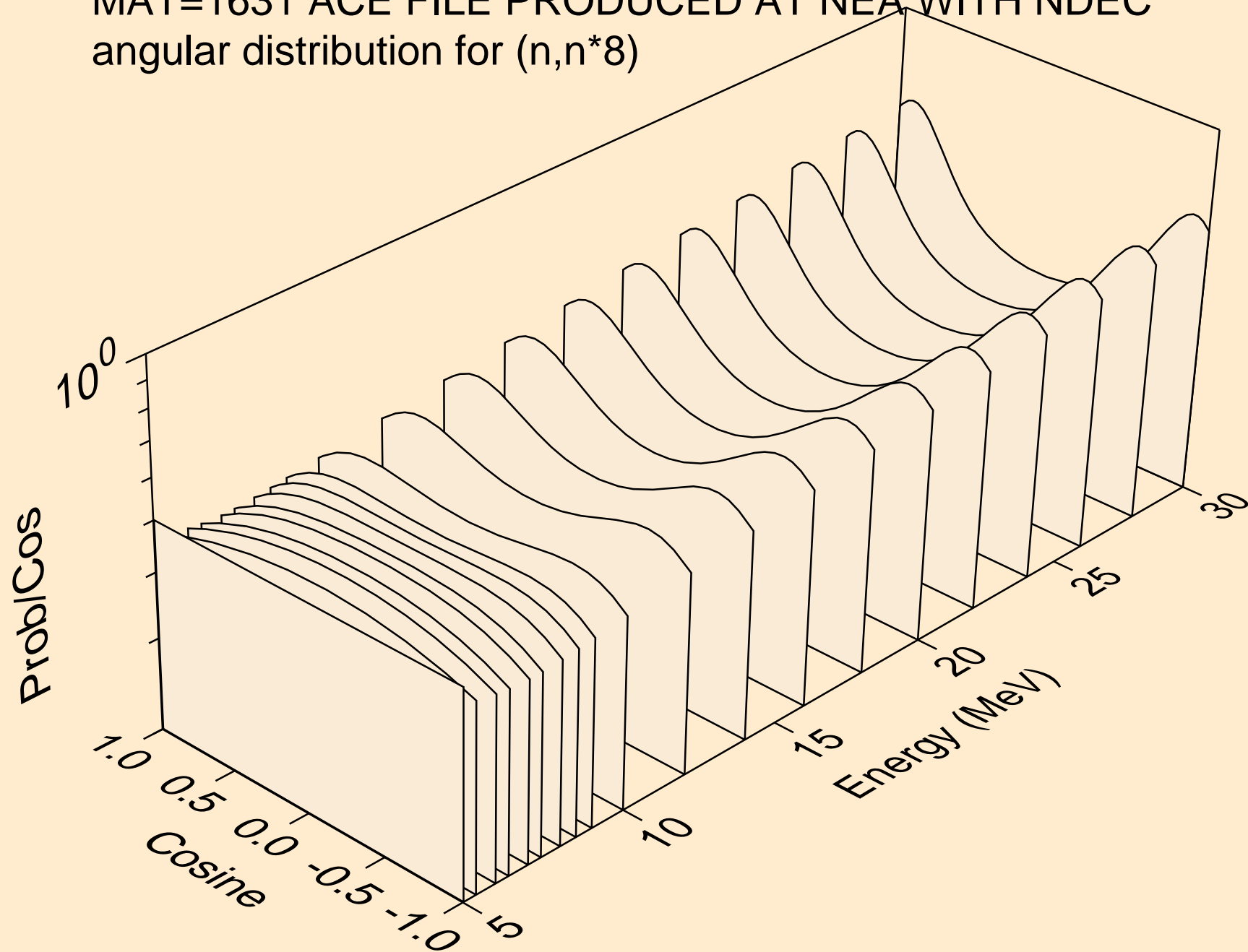
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angular distribution for (n,n\*6)



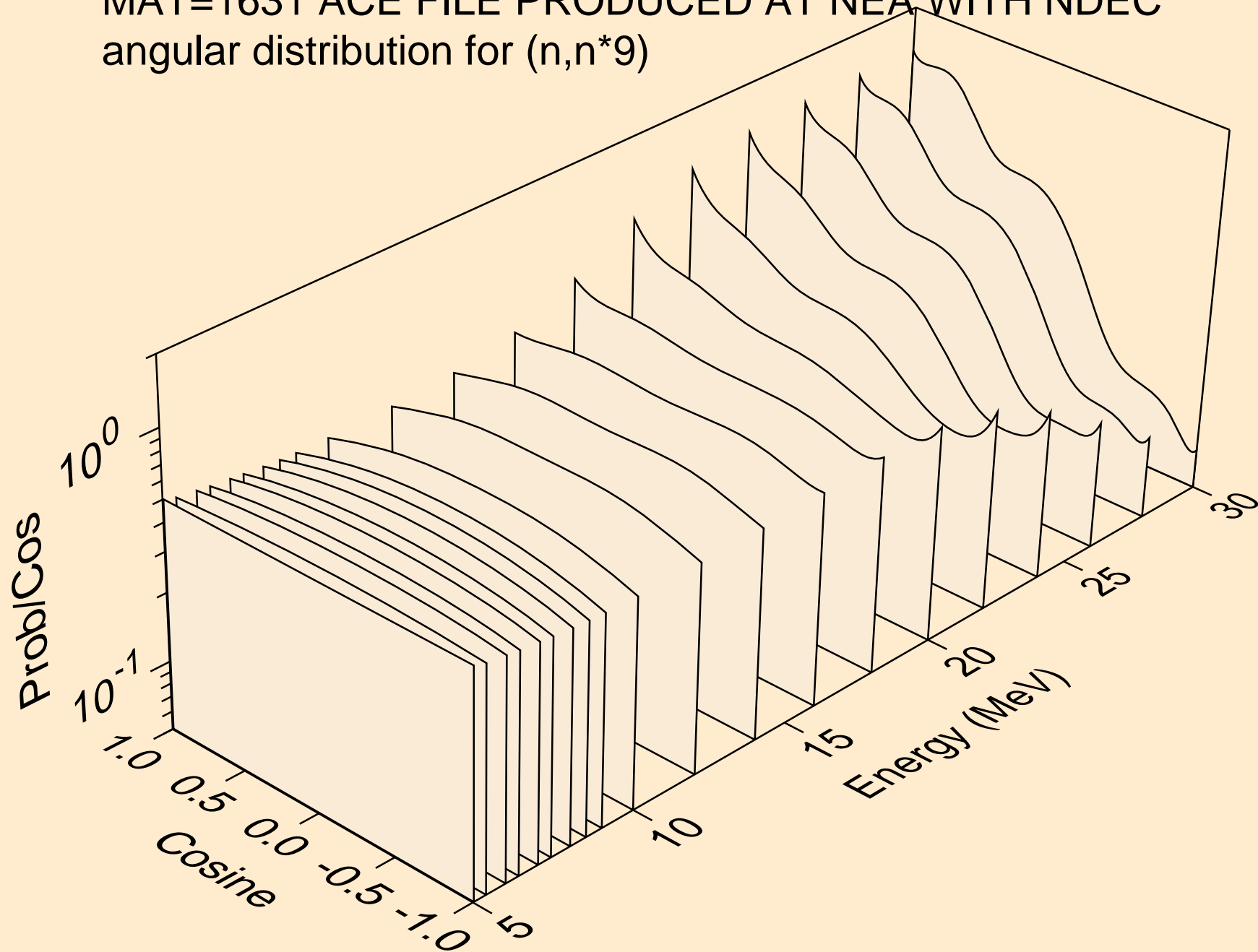
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angular distribution for (n,n\*7)



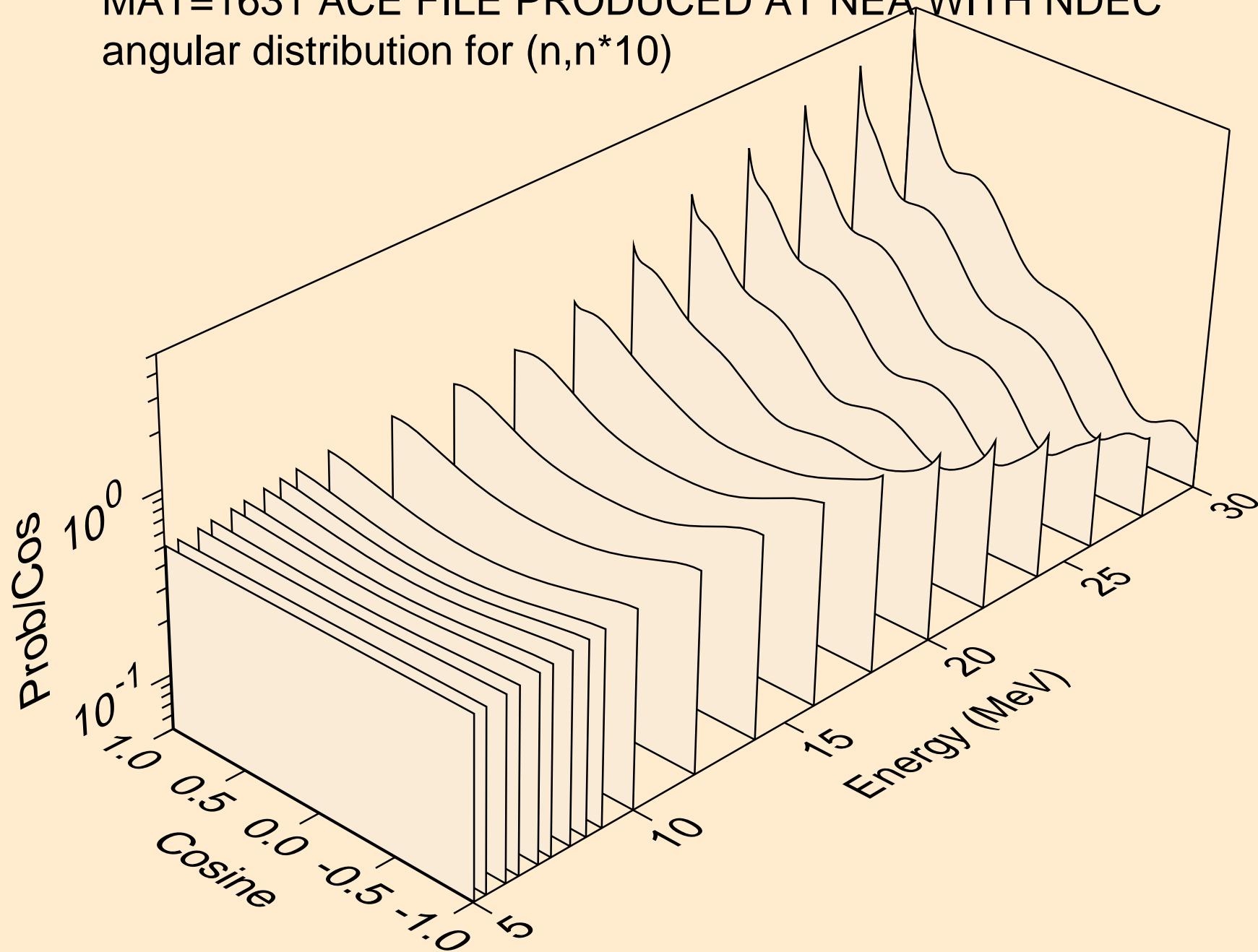
MAT=1631 ACE FILE PRODUCED AT NEA WITH NDEC  
angular distribution for (n,n\*8)



MAT=1631 ACE FILE PRODUCED AT NEA WITH NDEC  
angular distribution for (n,n\*9)

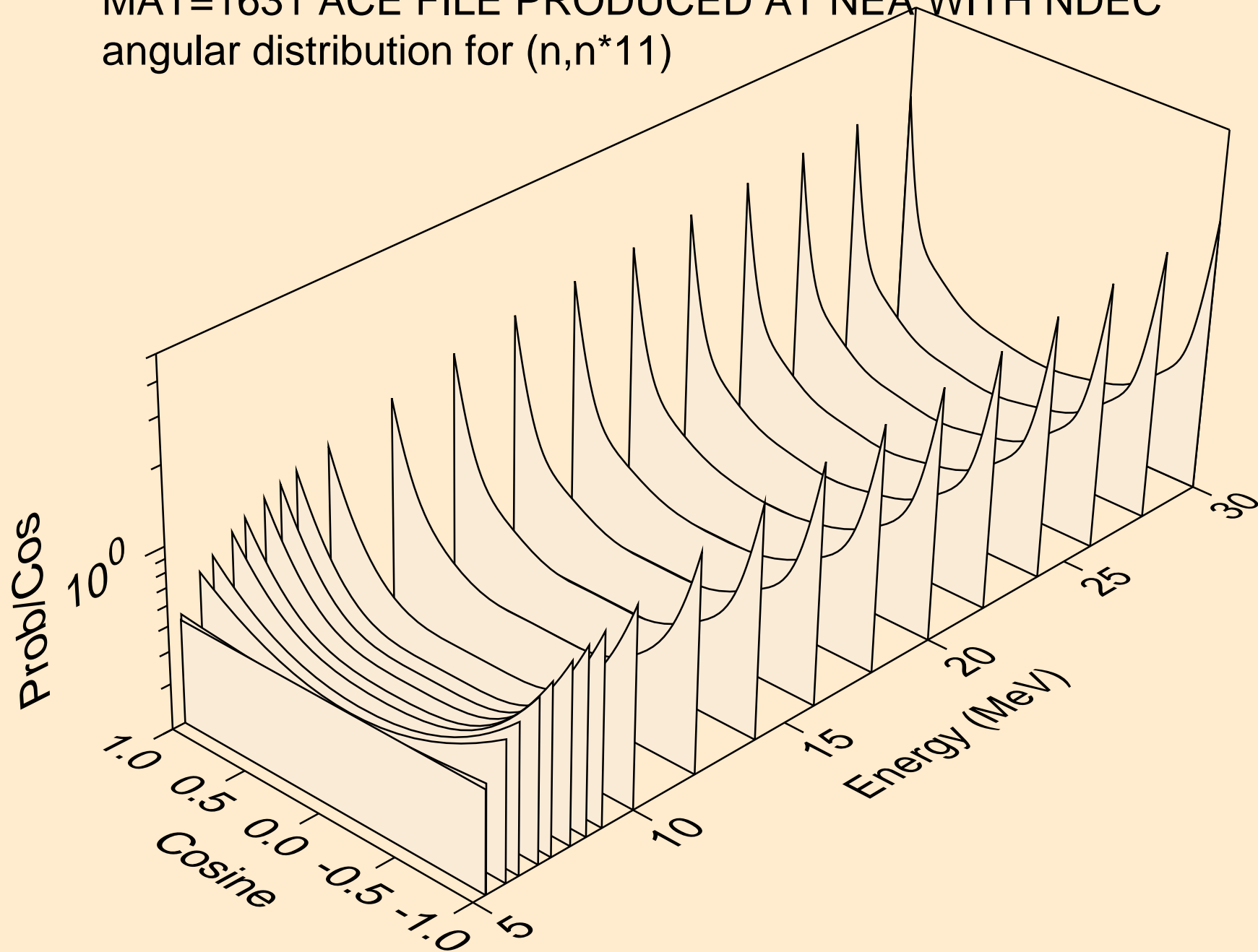


MAT=1631 ACE FILE PRODUCED AT NEA WITH NDEC  
angular distribution for (n,n\*10)

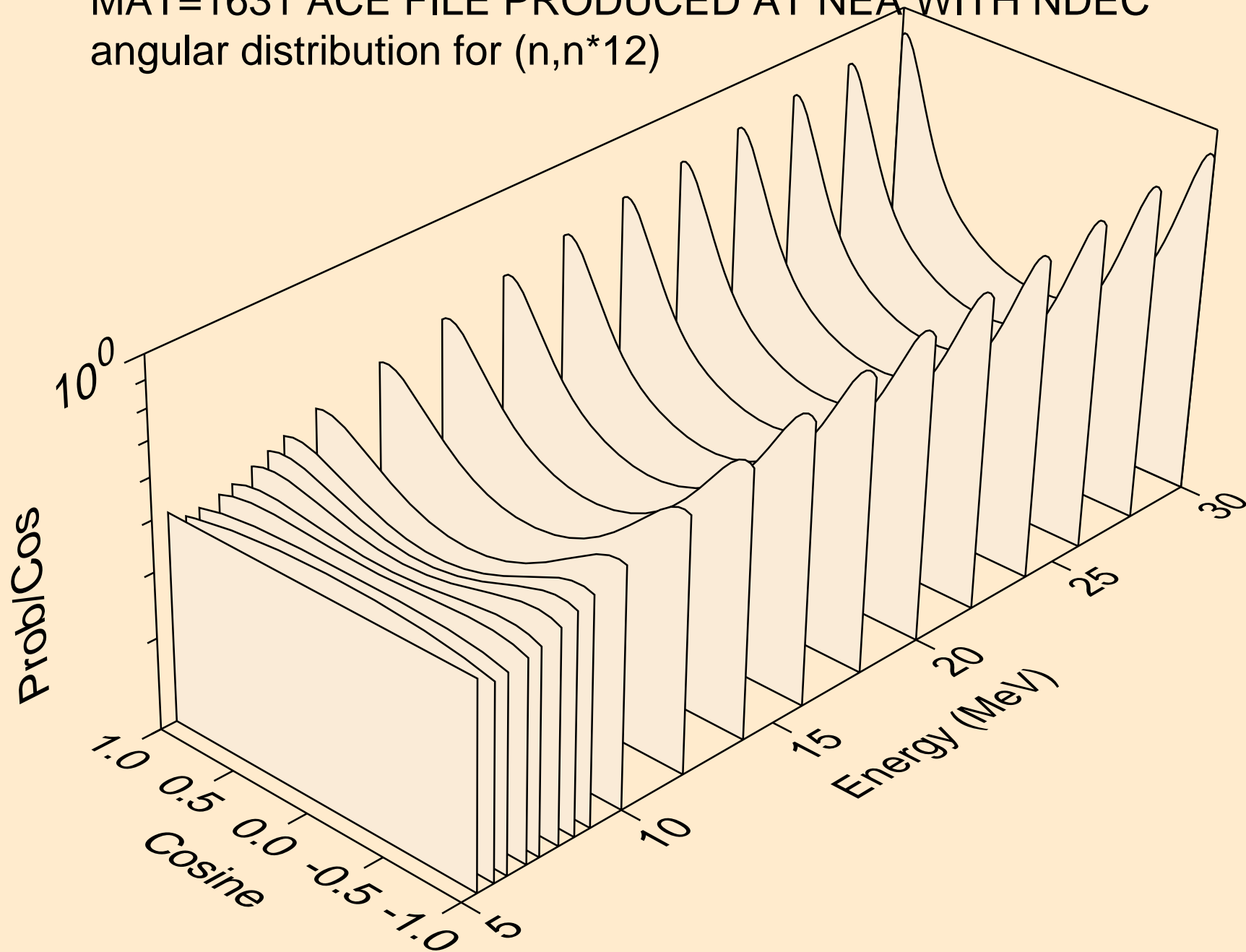




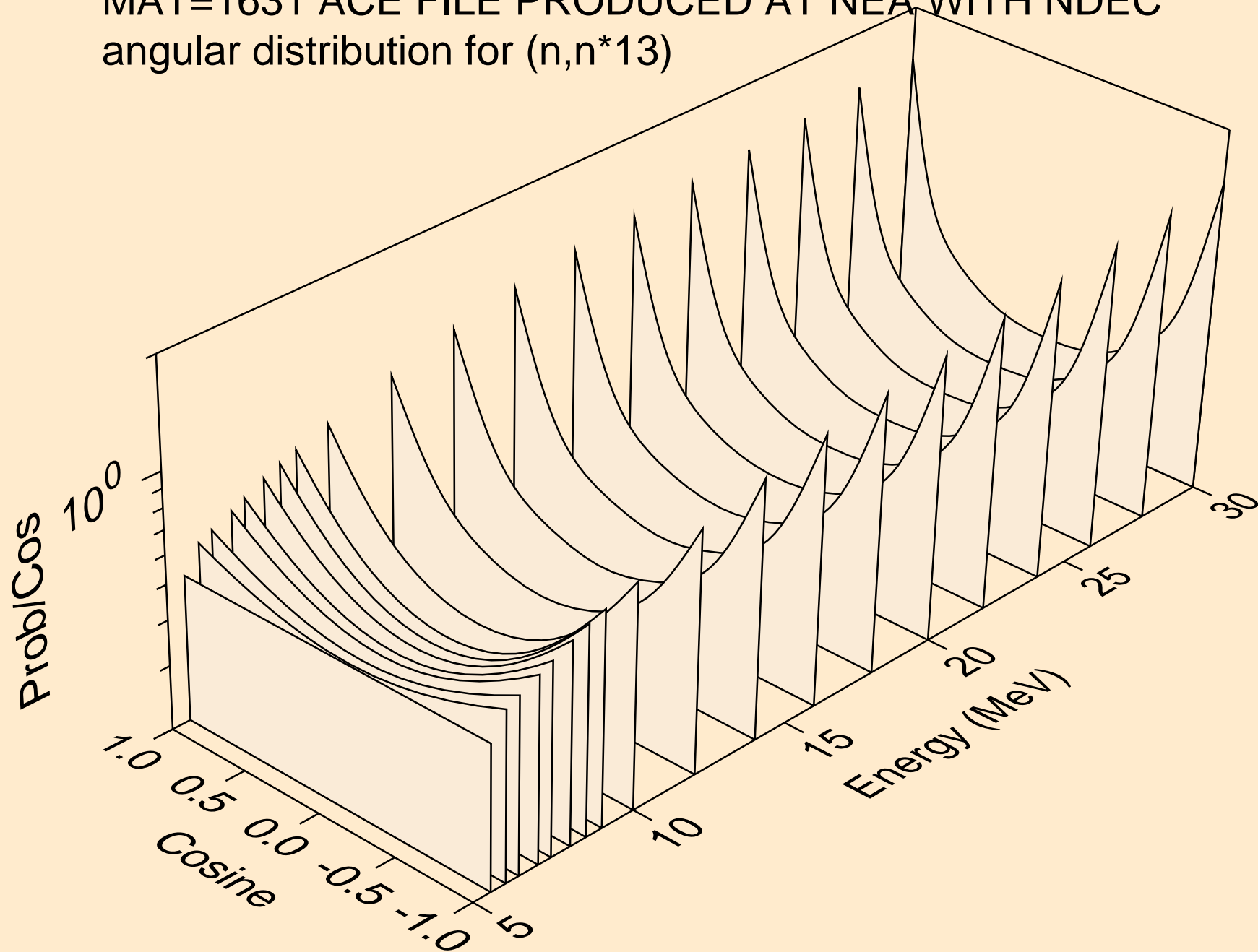
MAT=1631 ACE FILE PRODUCED AT NEA WITH NDEC  
angular distribution for (n,n\*11)



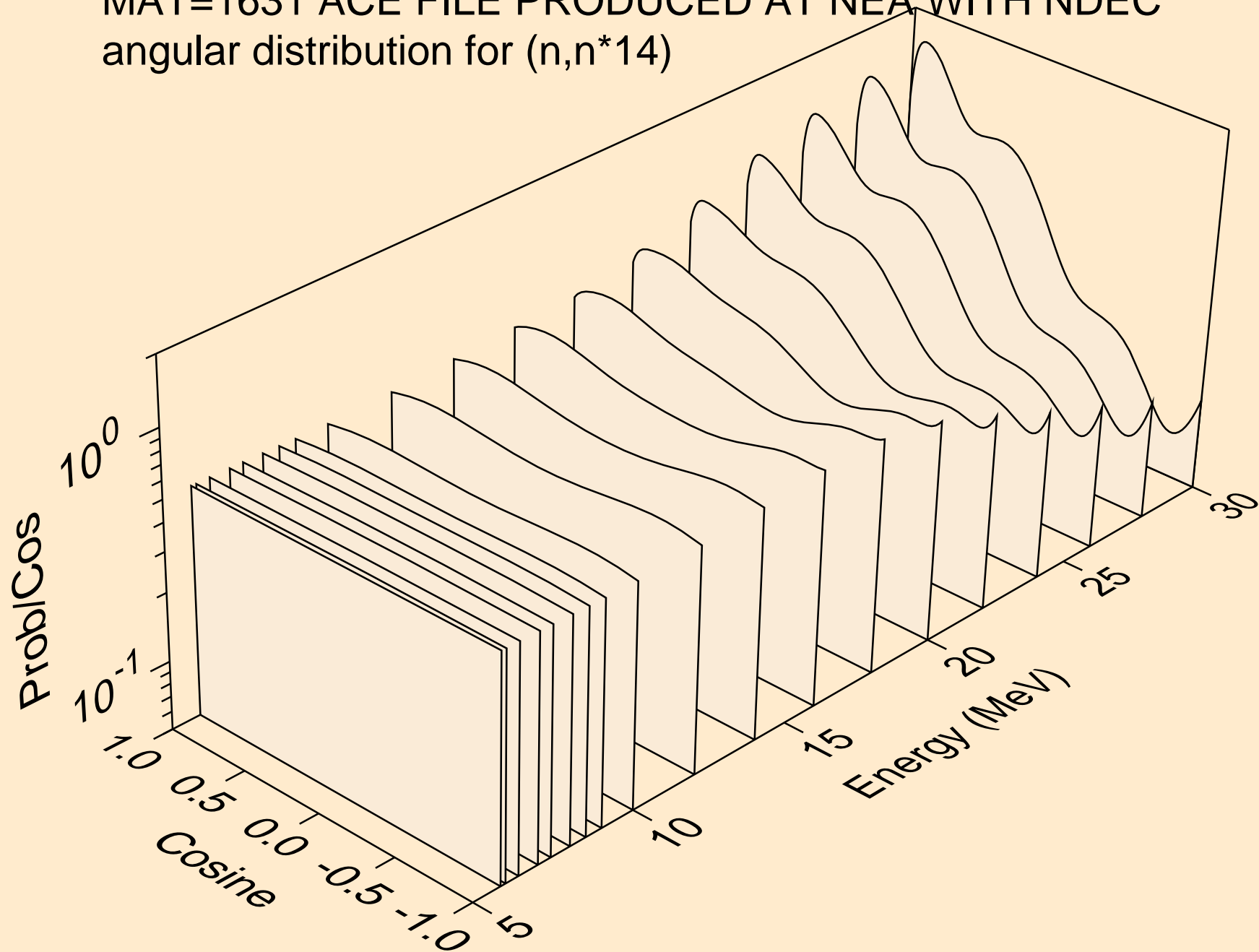
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angular distribution for (n,n\*12)



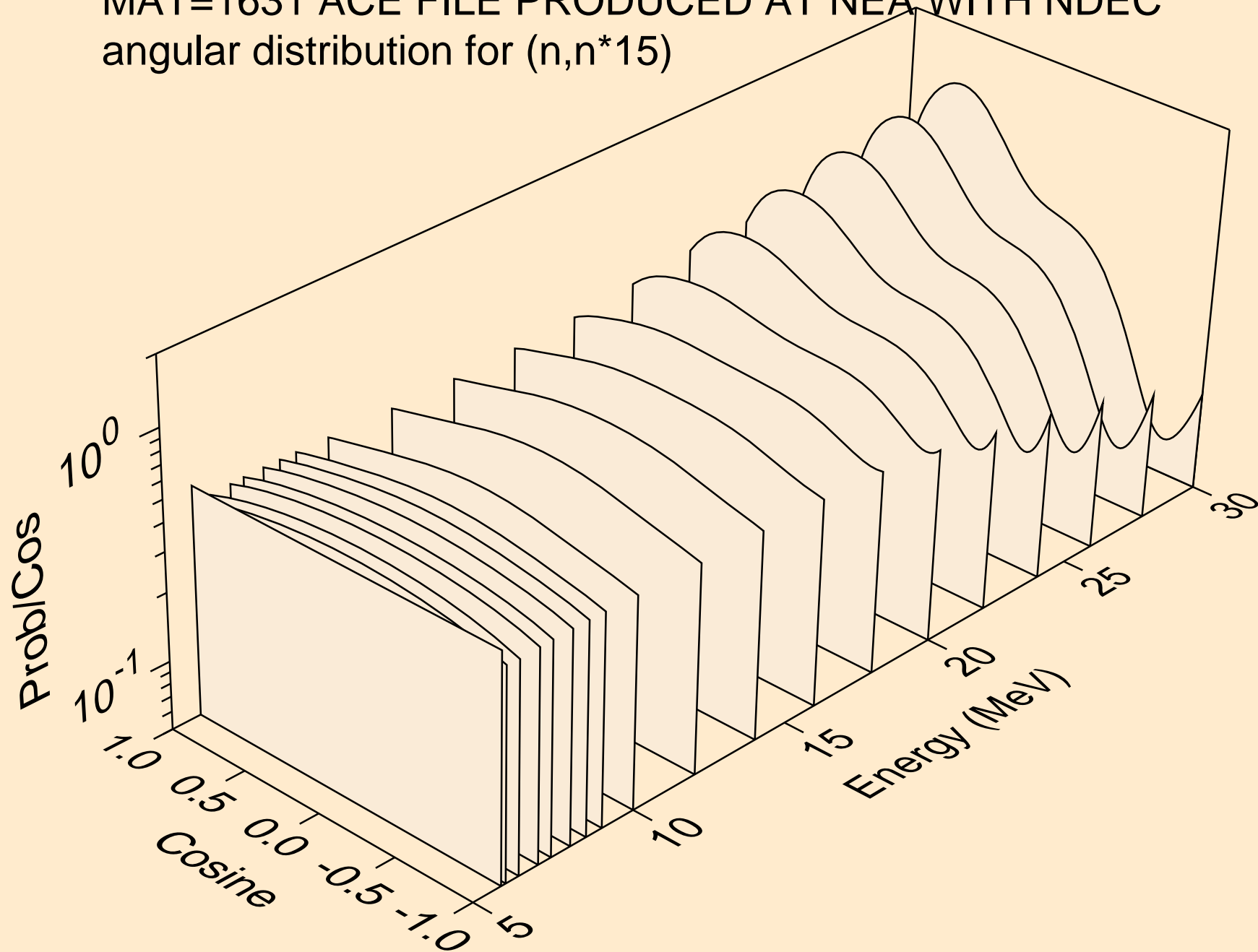
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angular distribution for (n,n\*13)



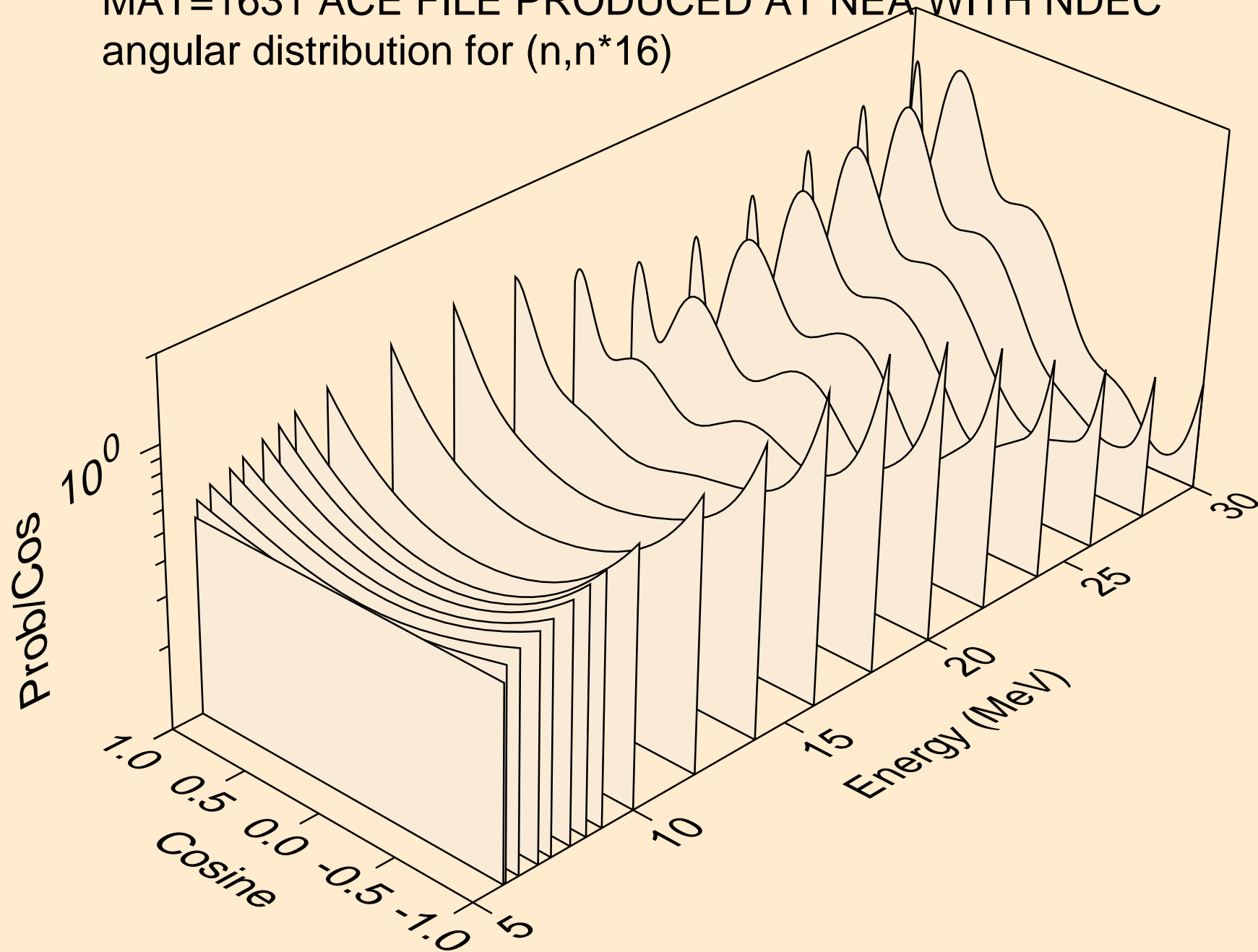
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angular distribution for (n,n\*14)



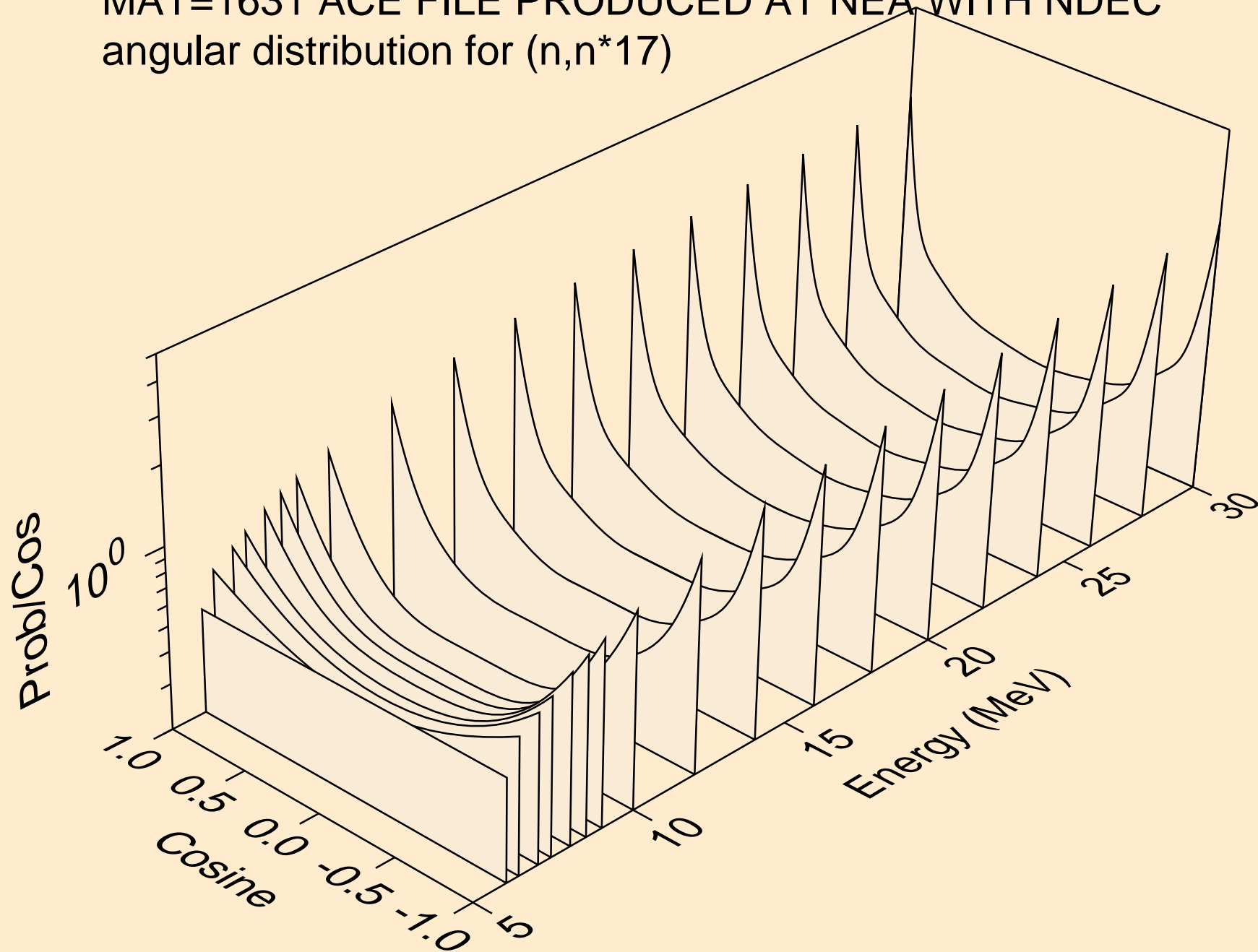
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angular distribution for (n,n\*15)



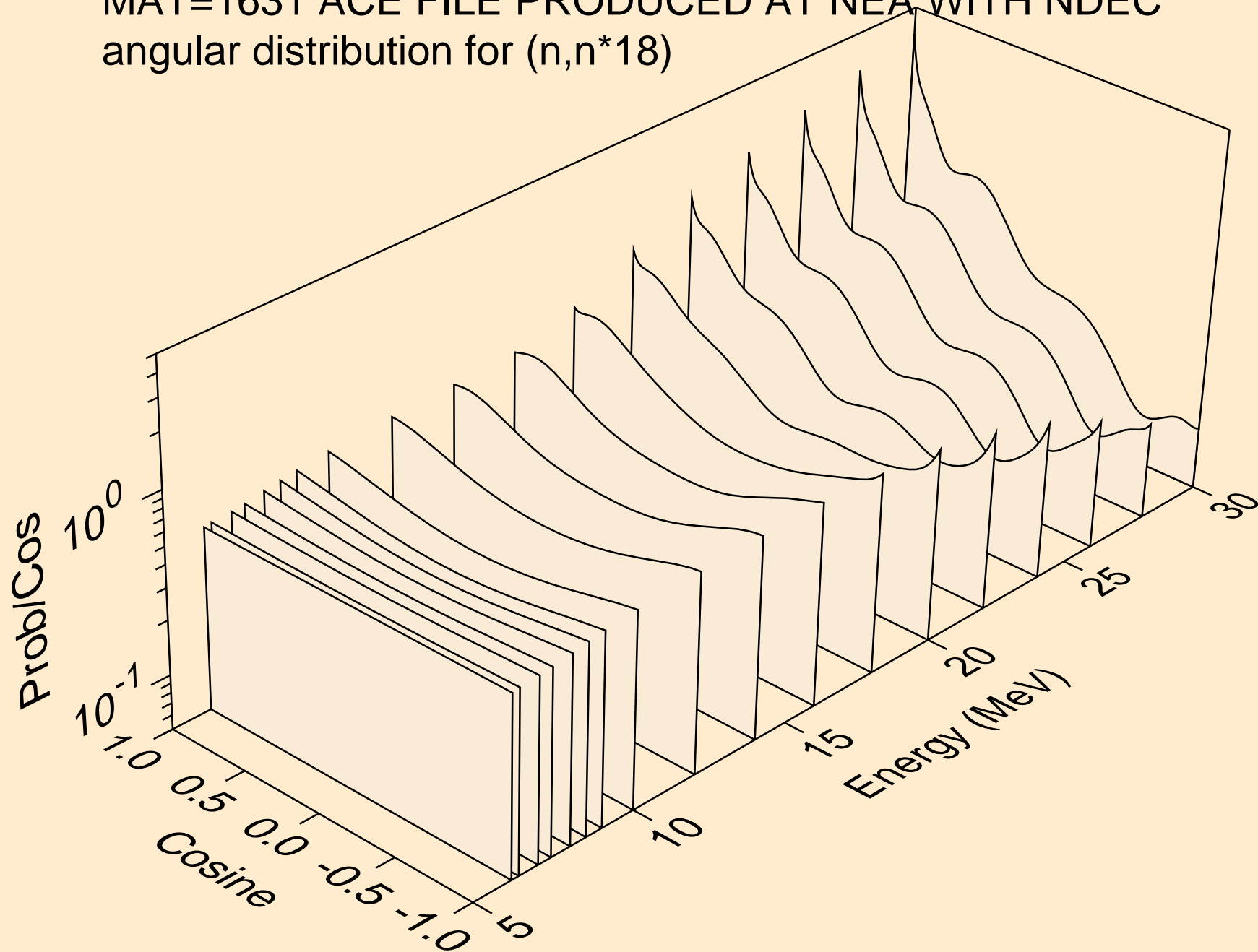
MAT=1631 ACE FILE PRODUCED AT NEA WITH NDEC  
angular distribution for (n,n\*16)



MAT=1631 ACE FILE PRODUCED AT NEA WITH NDEC  
angular distribution for (n,n\*17)

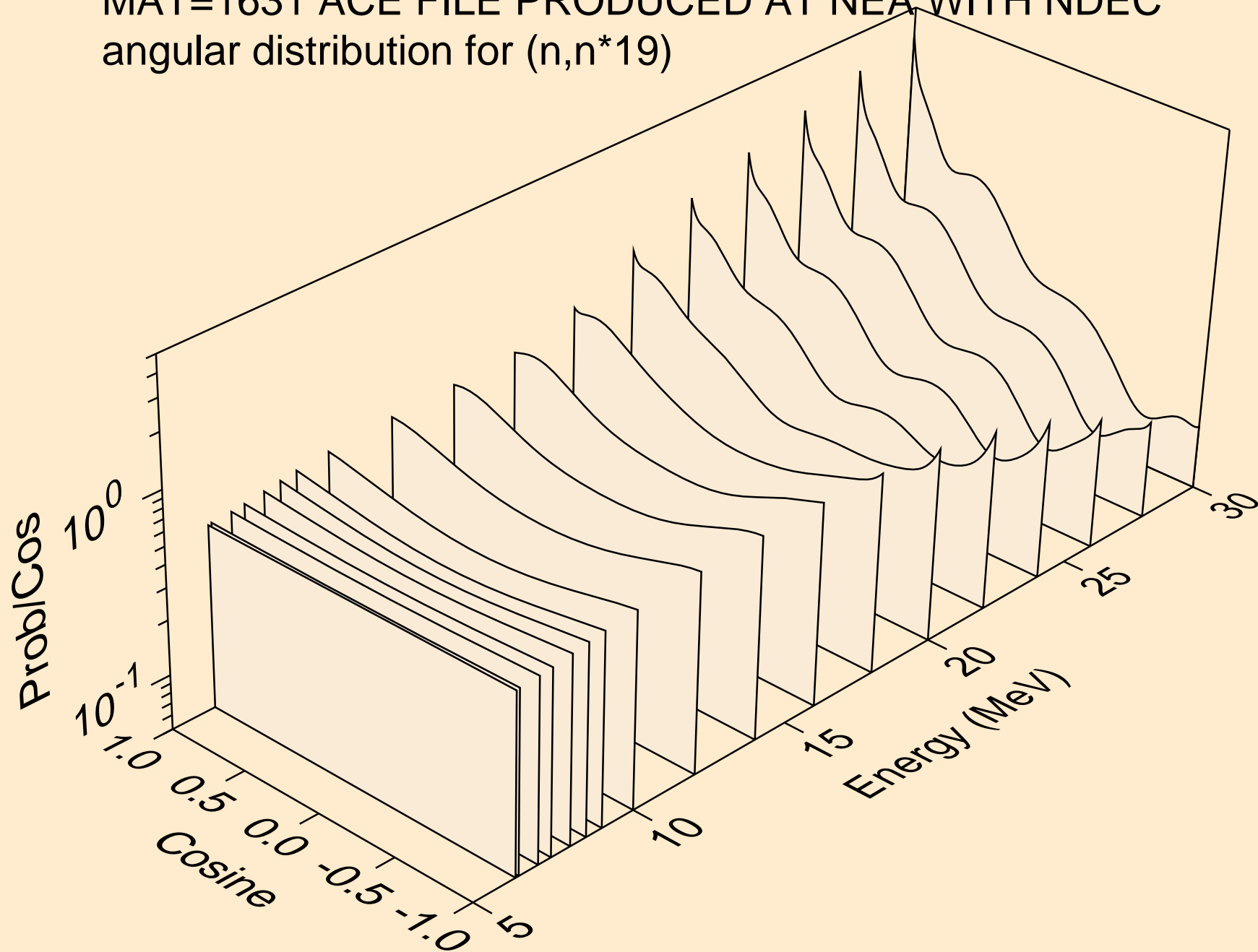


MAT=1631 ACE FILE PRODUCED AT NEA WITH NDEC  
angular distribution for (n,n\*18)

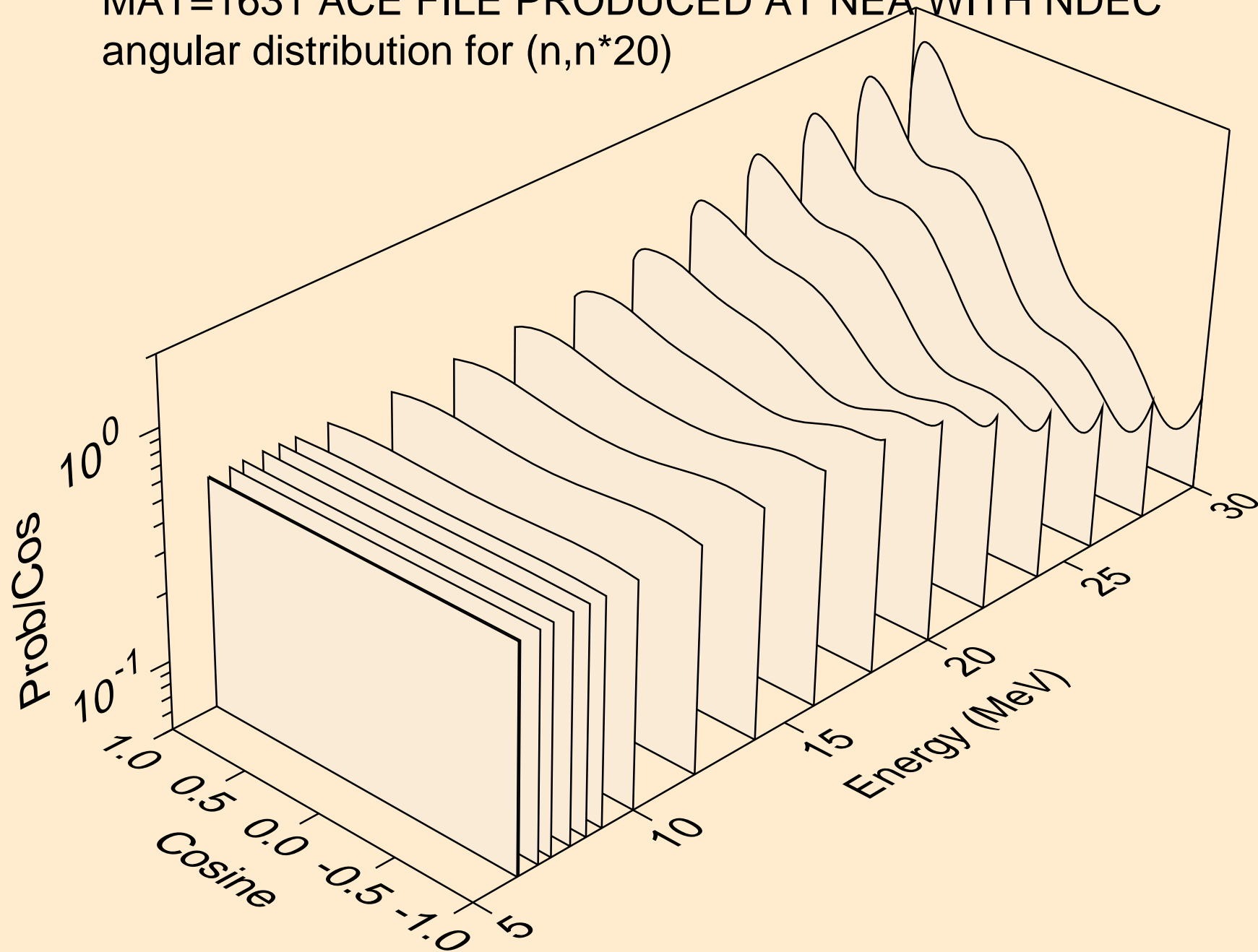




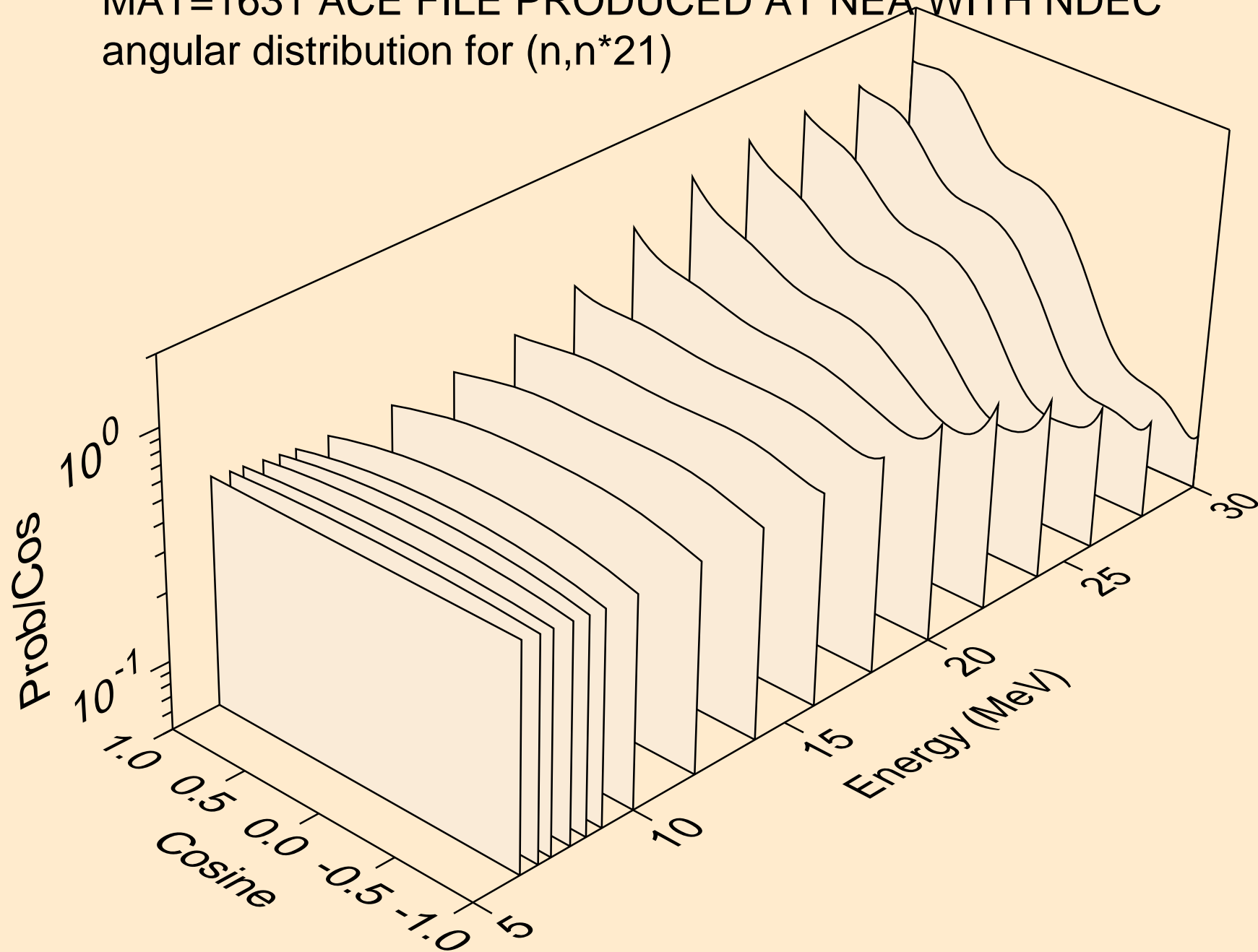
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angular distribution for (n,n\*19)



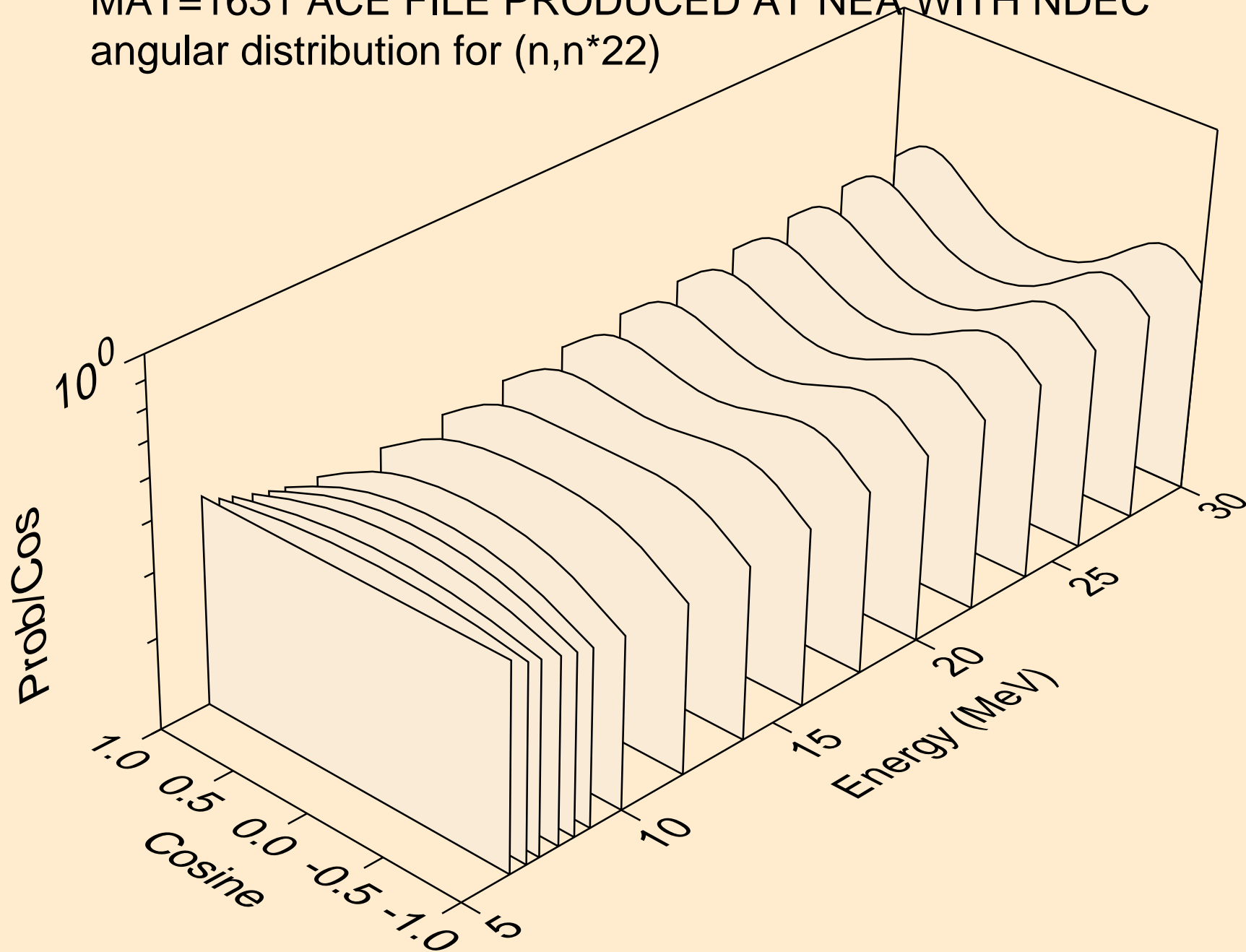
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angular distribution for (n,n\*20)



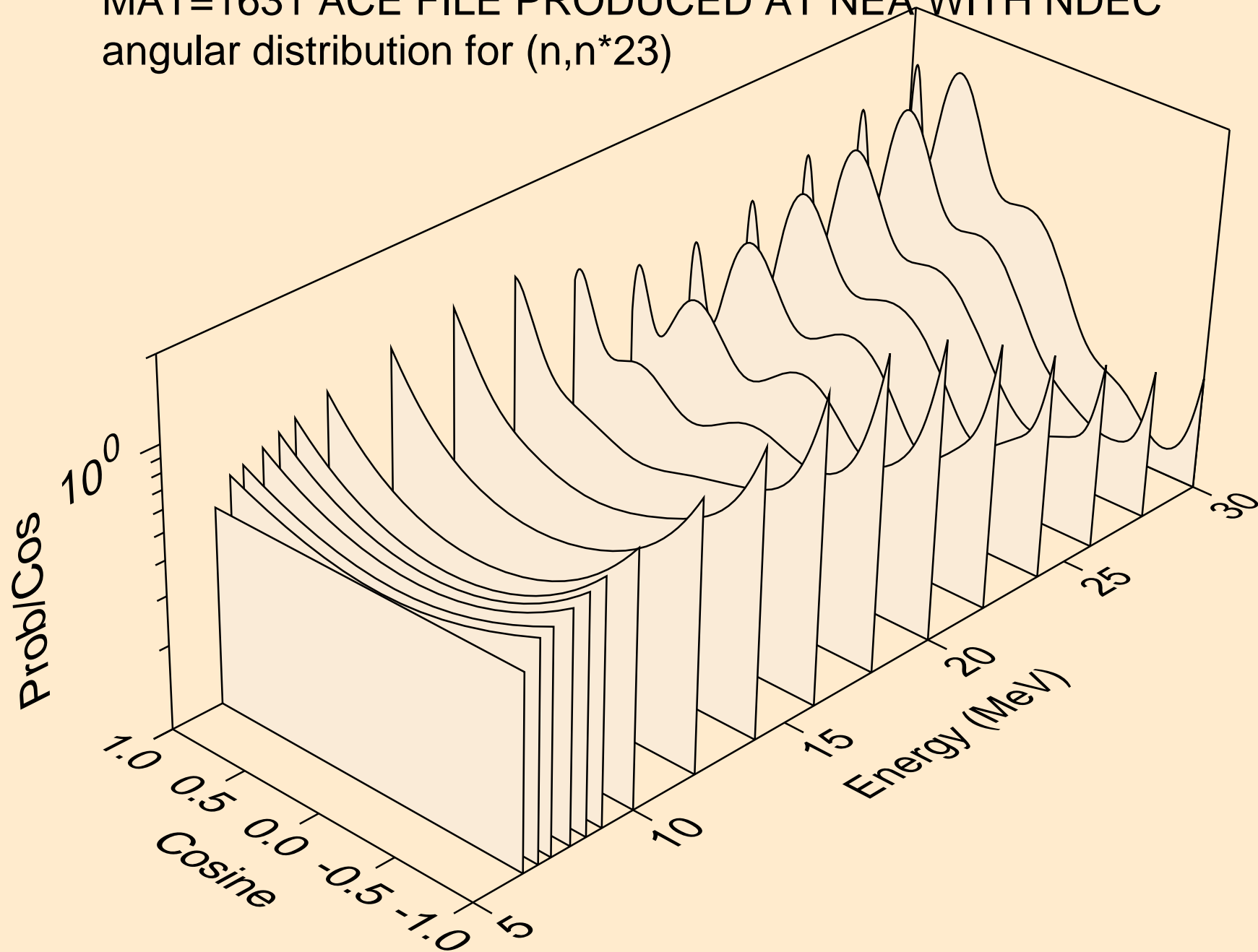
MAT=1631 ACE FILE PRODUCED AT NEA WITH NDEC  
angular distribution for (n,n\*21)



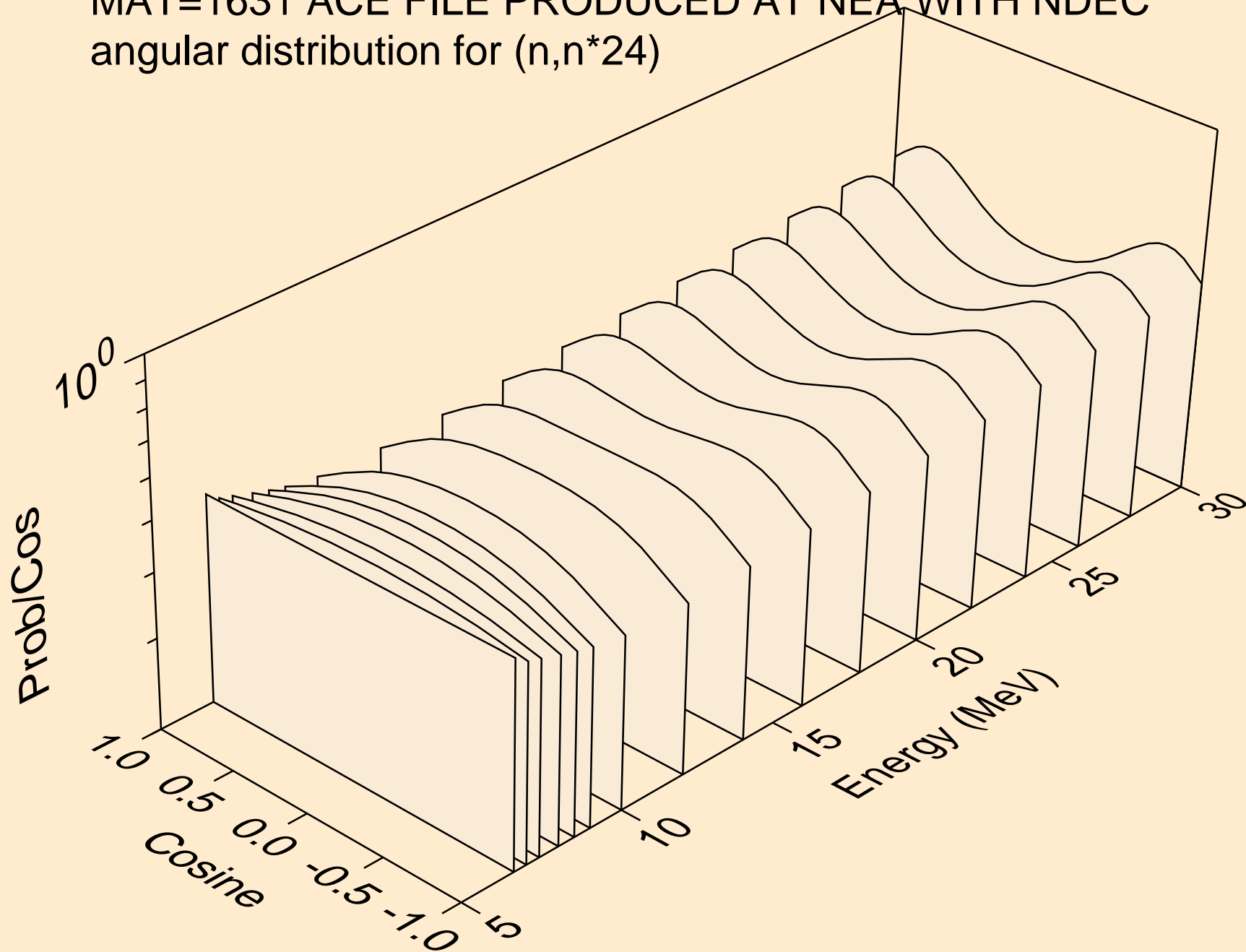
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angular distribution for (n,n\*22)



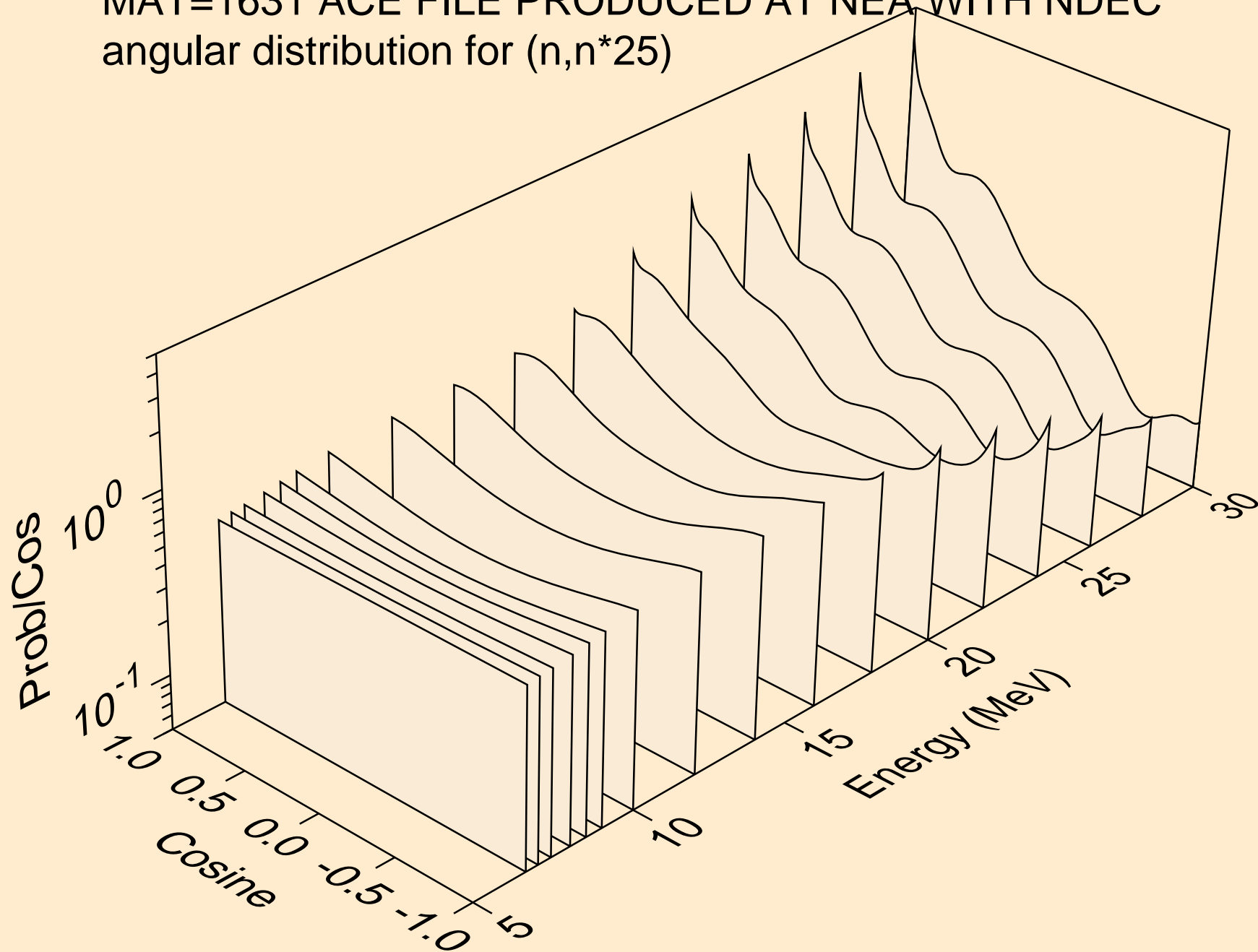
MAT=1631 ACE FILE PRODUCED AT NEA WITH NDEC  
angular distribution for (n,n\*23)



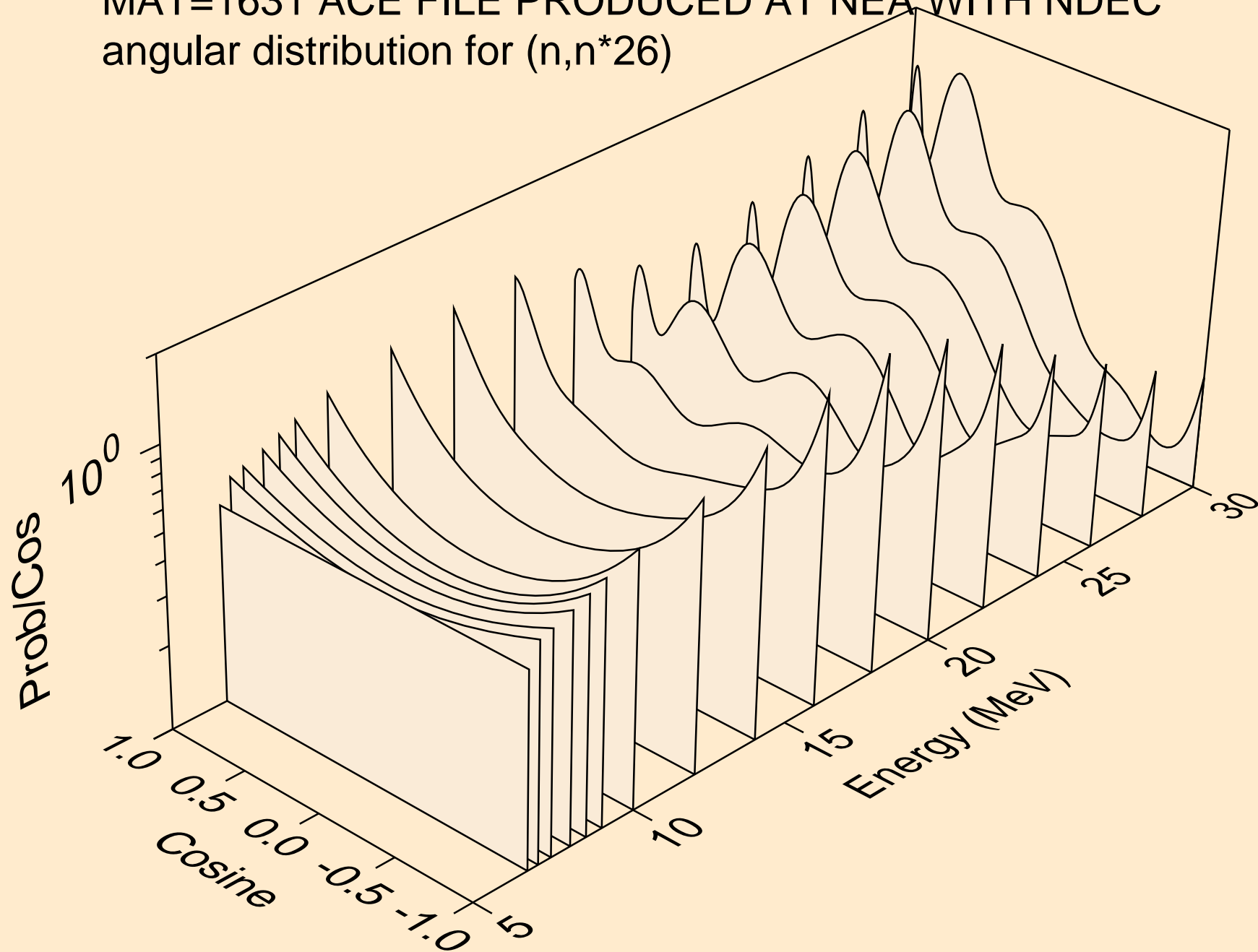
MAT=1631 ACE FILE PRODUCED AT NEA WITH NDEC  
angular distribution for (n,n\*24)



MAT=1631 ACE FILE PRODUCED AT NEA WITH NDEC  
angular distribution for (n,n\*25)

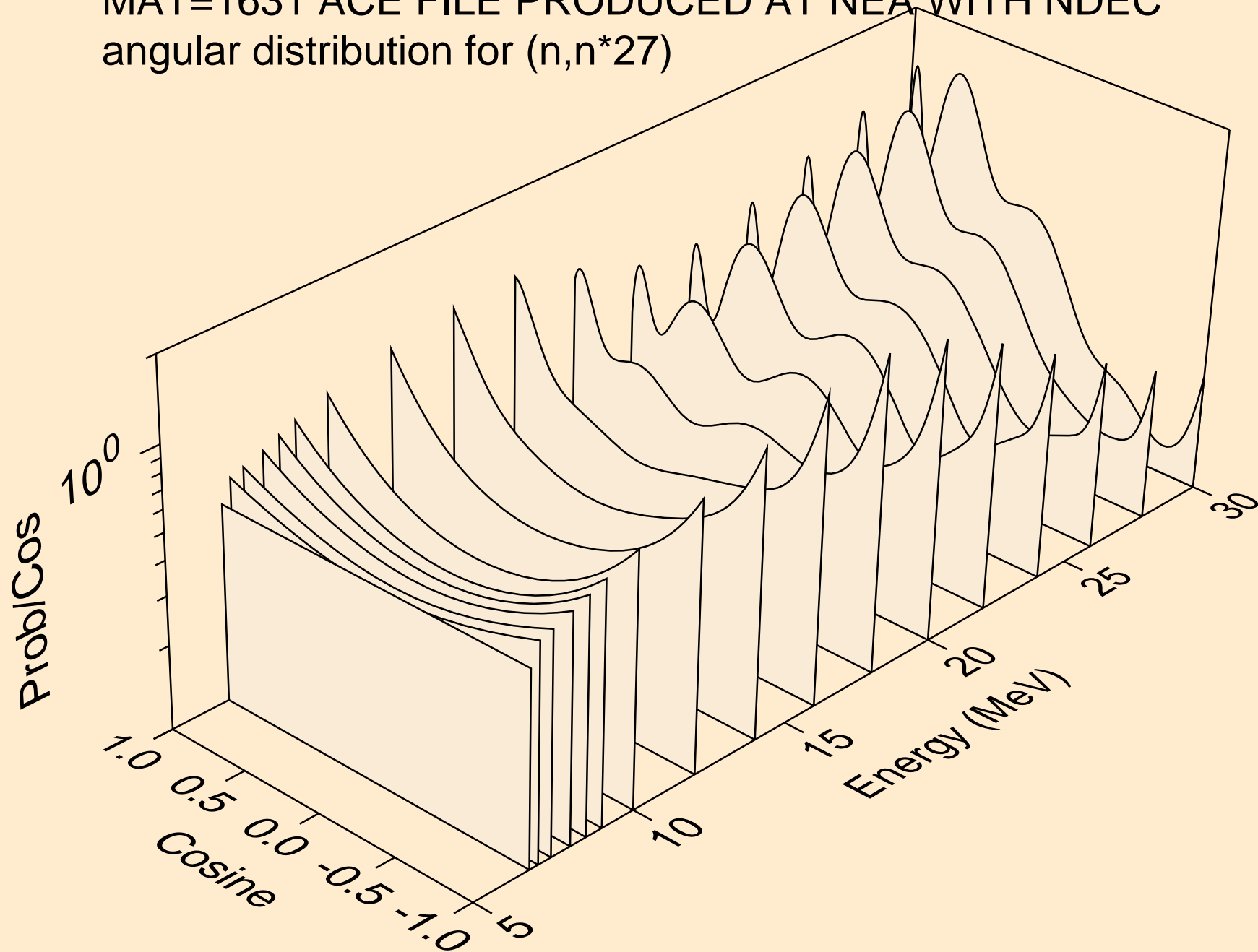


MAT=1631 ACE FILE PRODUCED AT NEA WITH NDEC  
angular distribution for (n,n\*26)

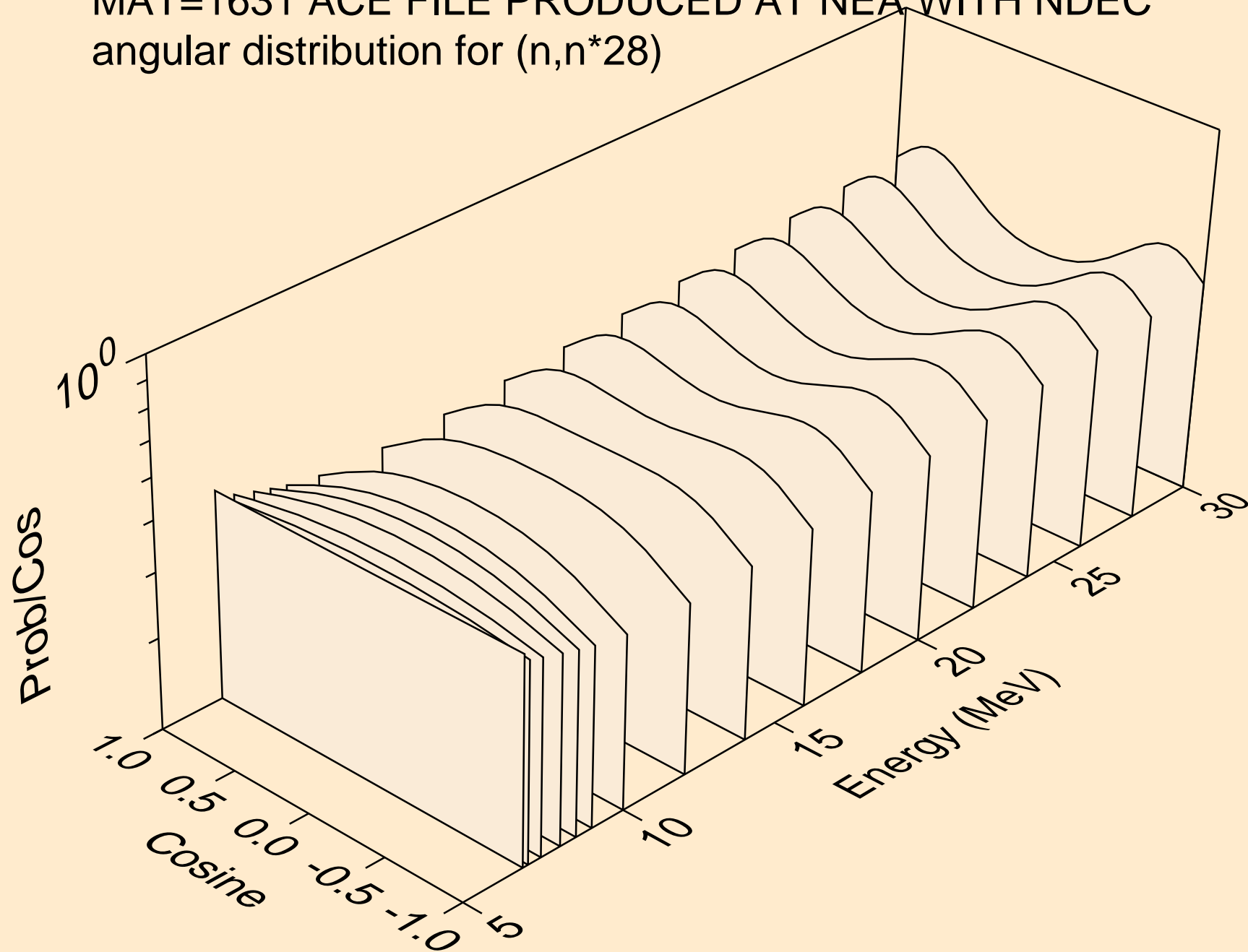




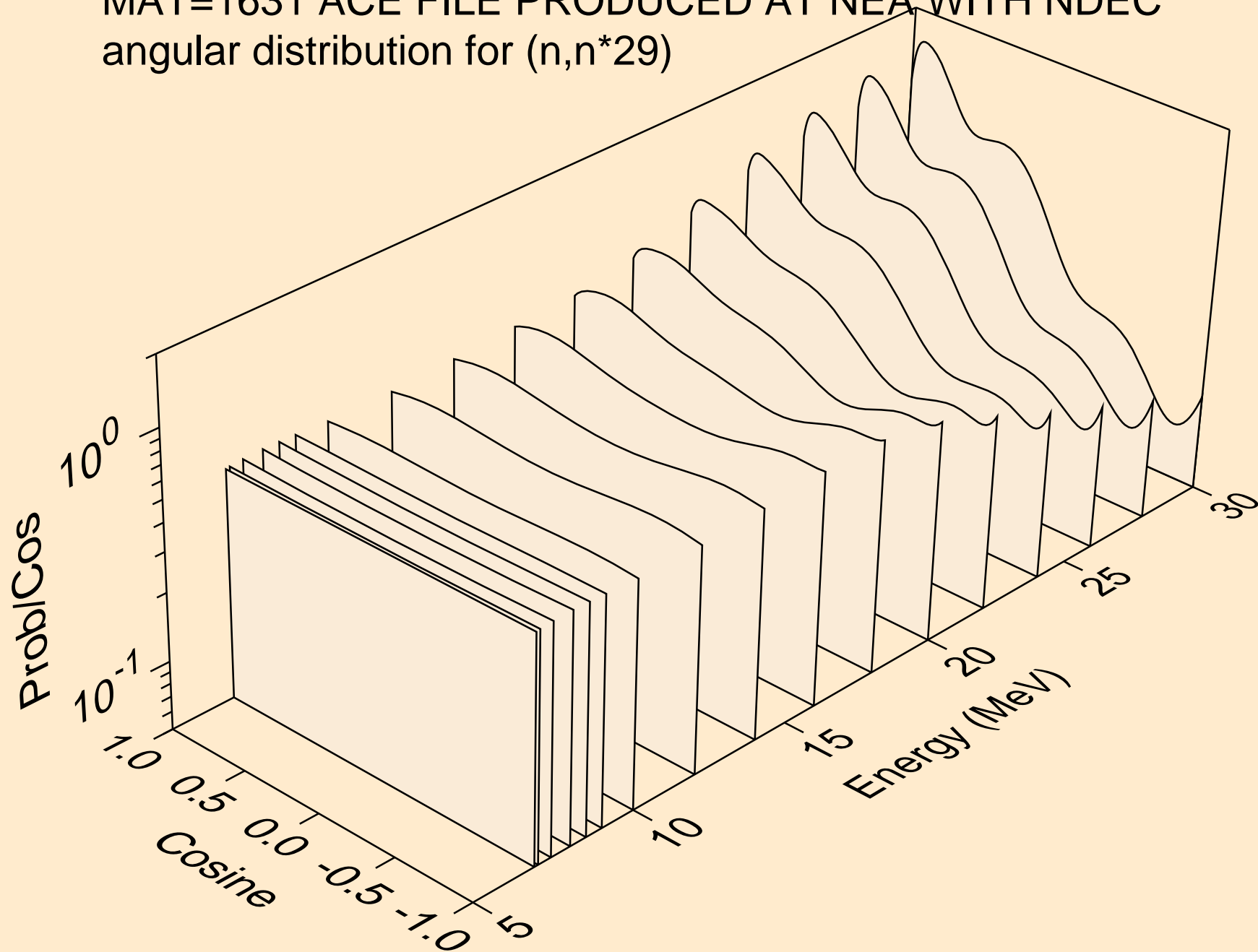
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angular distribution for (n,n\*27)



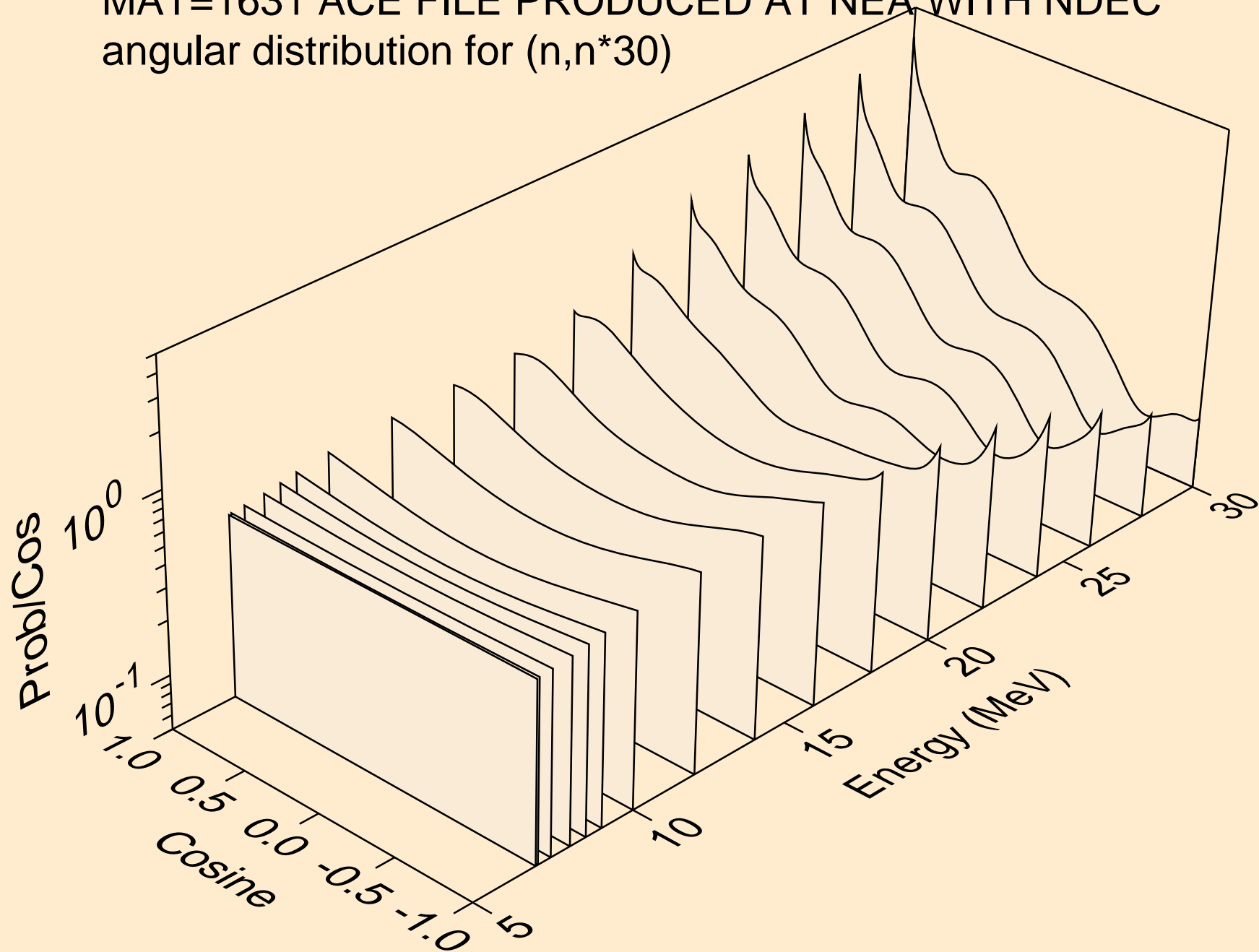
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angular distribution for (n,n\*28)



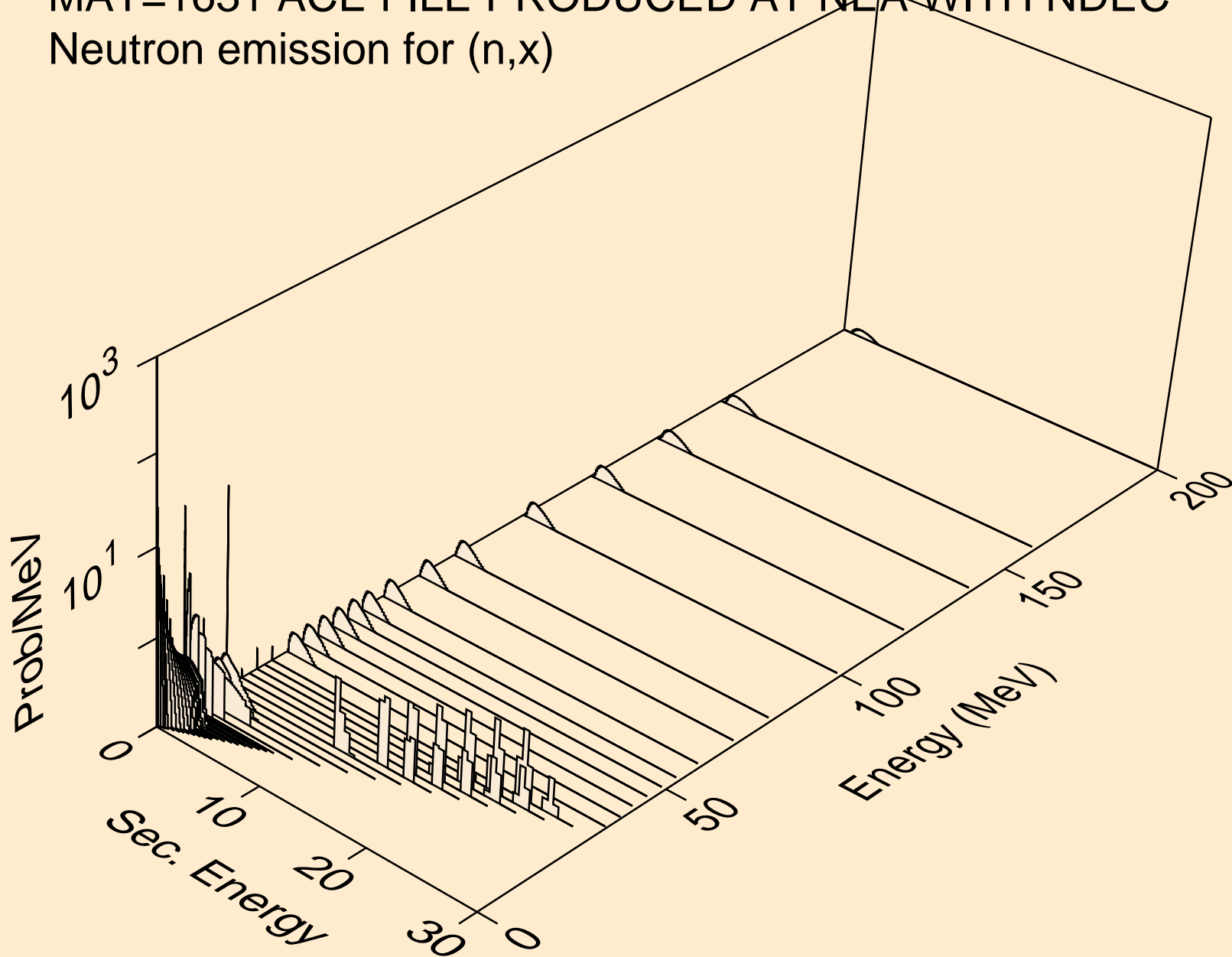
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angular distribution for (n,n\*29)



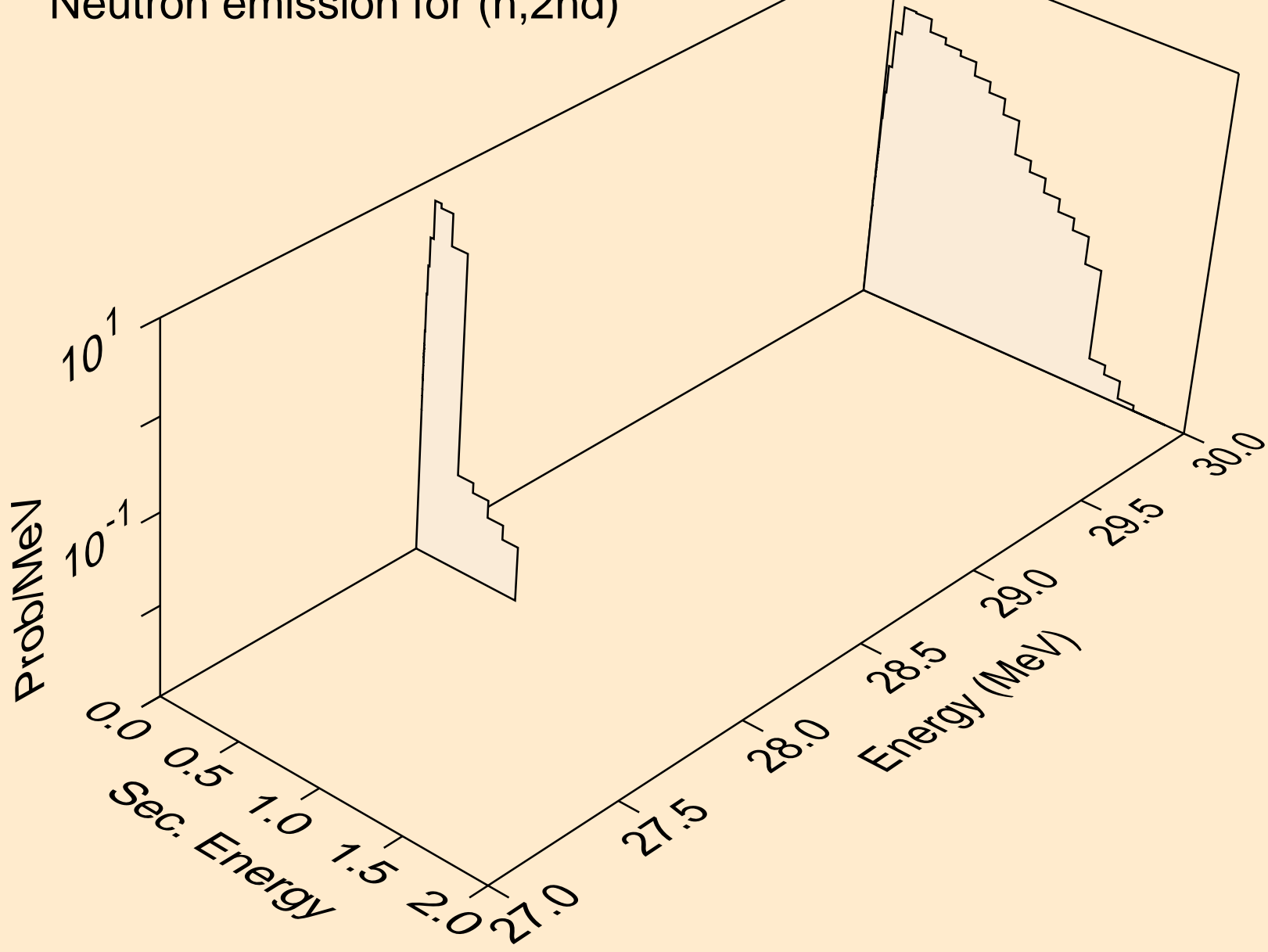
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angular distribution for (n,n\*30)



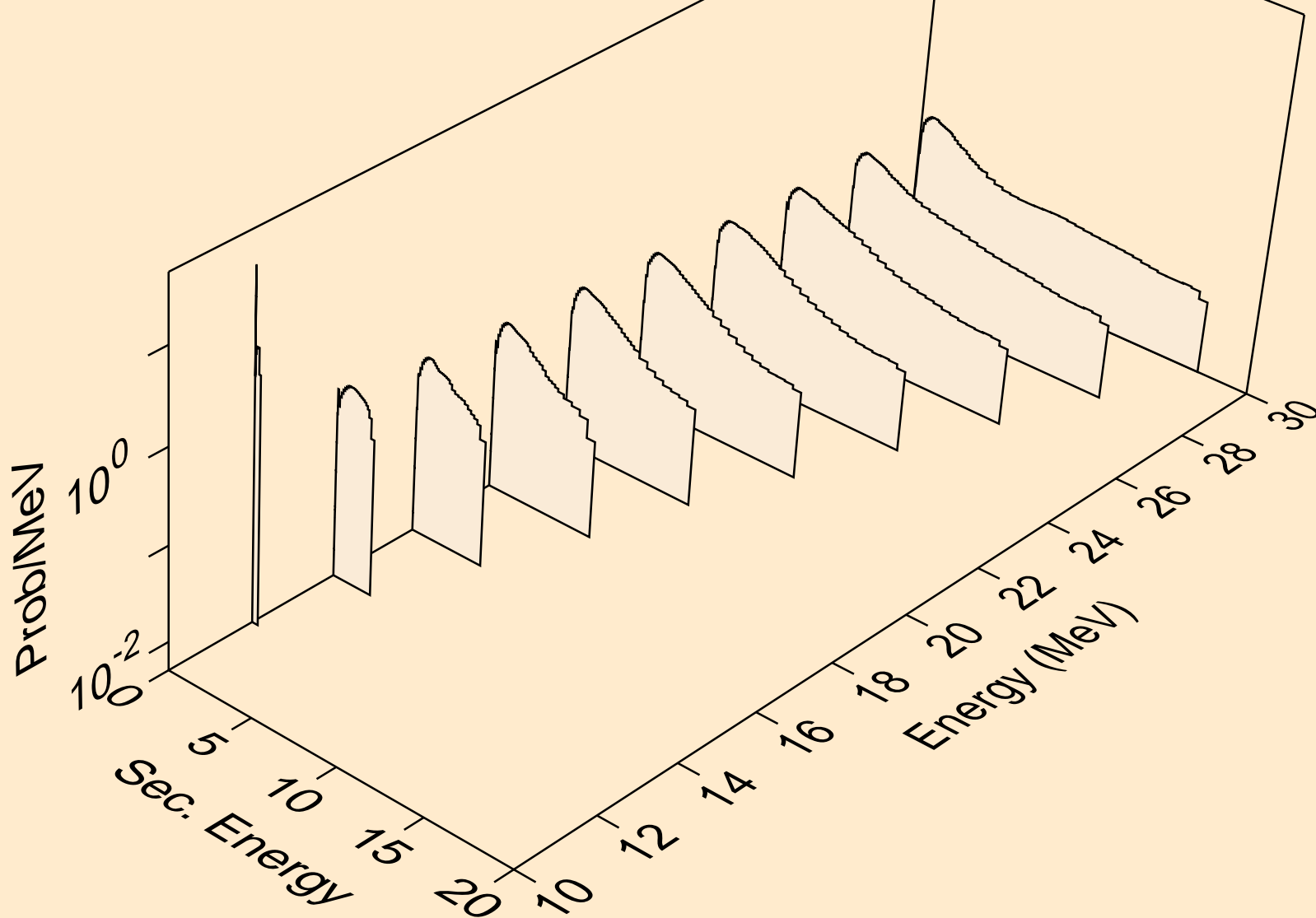
MAT=1631 ACE FILE PRODUCED AT NEA WITH NDEC  
Neutron emission for (n,x)



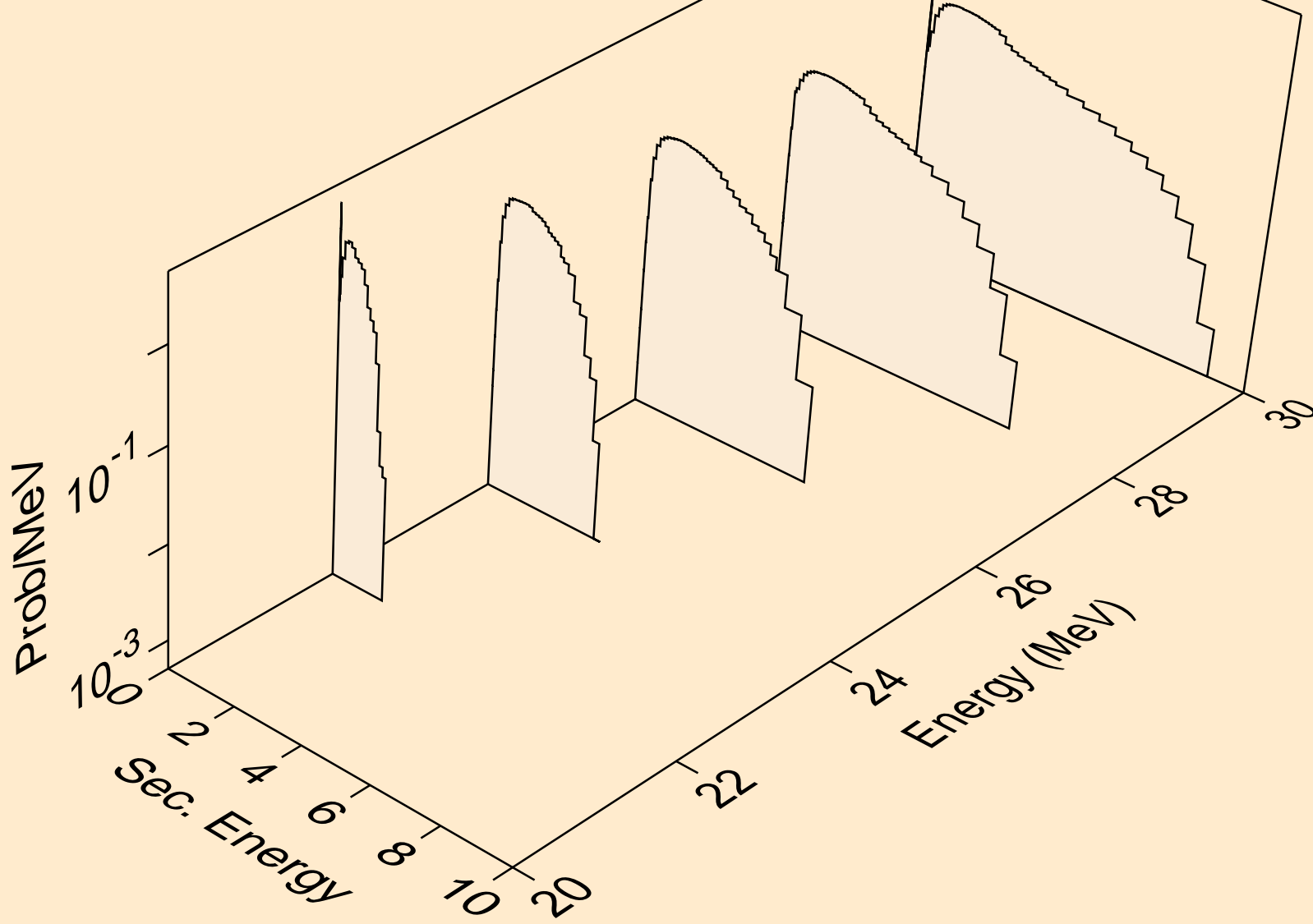
MAT=1631 ACE FILE PRODUCED AT NEA WITH NDEC  
Neutron emission for (n,2nd)



MAT=1631 ACE FILE PRODUCED AT NEA WITH NDEC  
Neutron emission for (n,2n)

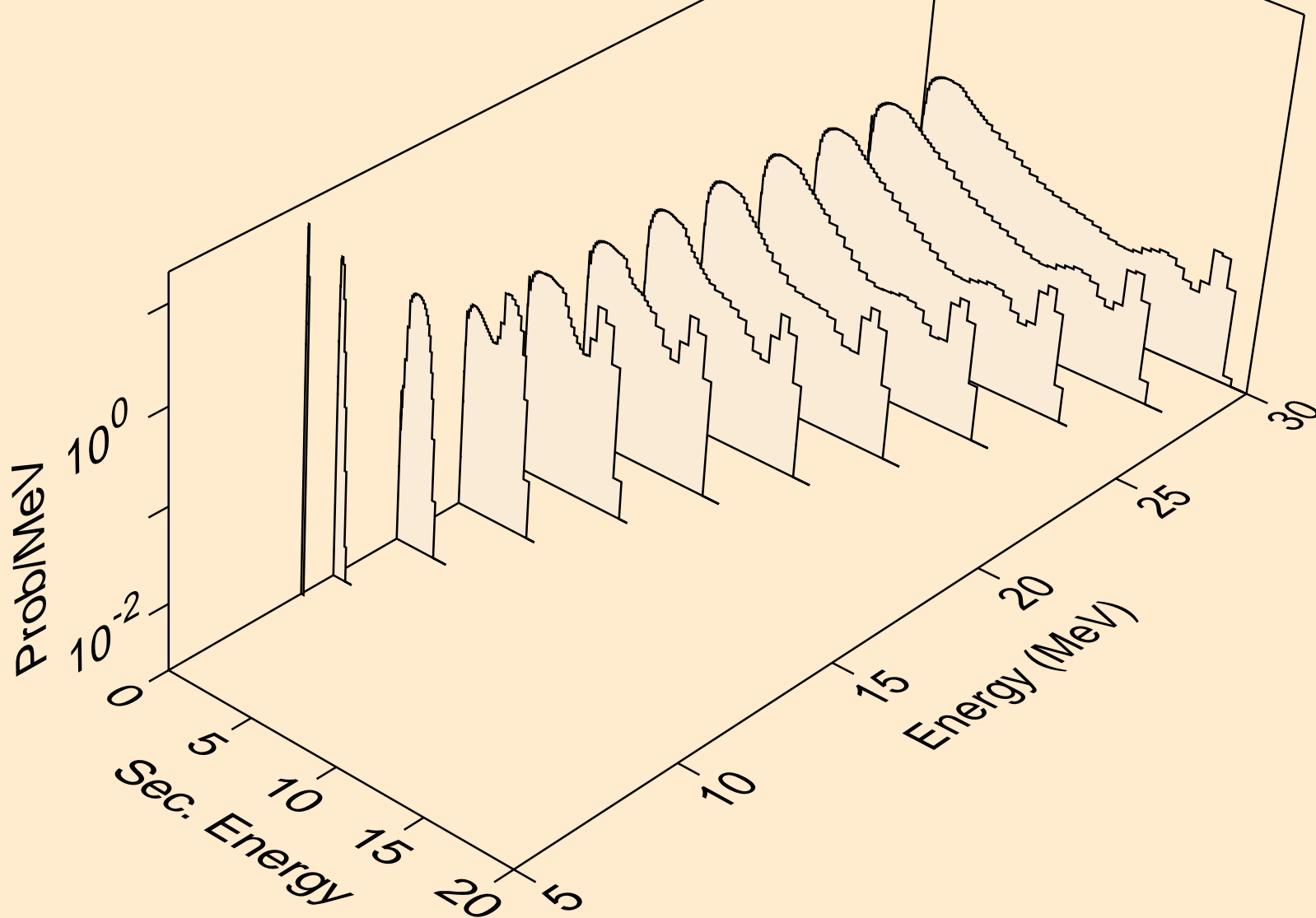


MAT=1631 ACE FILE PRODUCED AT NEA WITH NDEC  
Neutron emission for (n,3n)

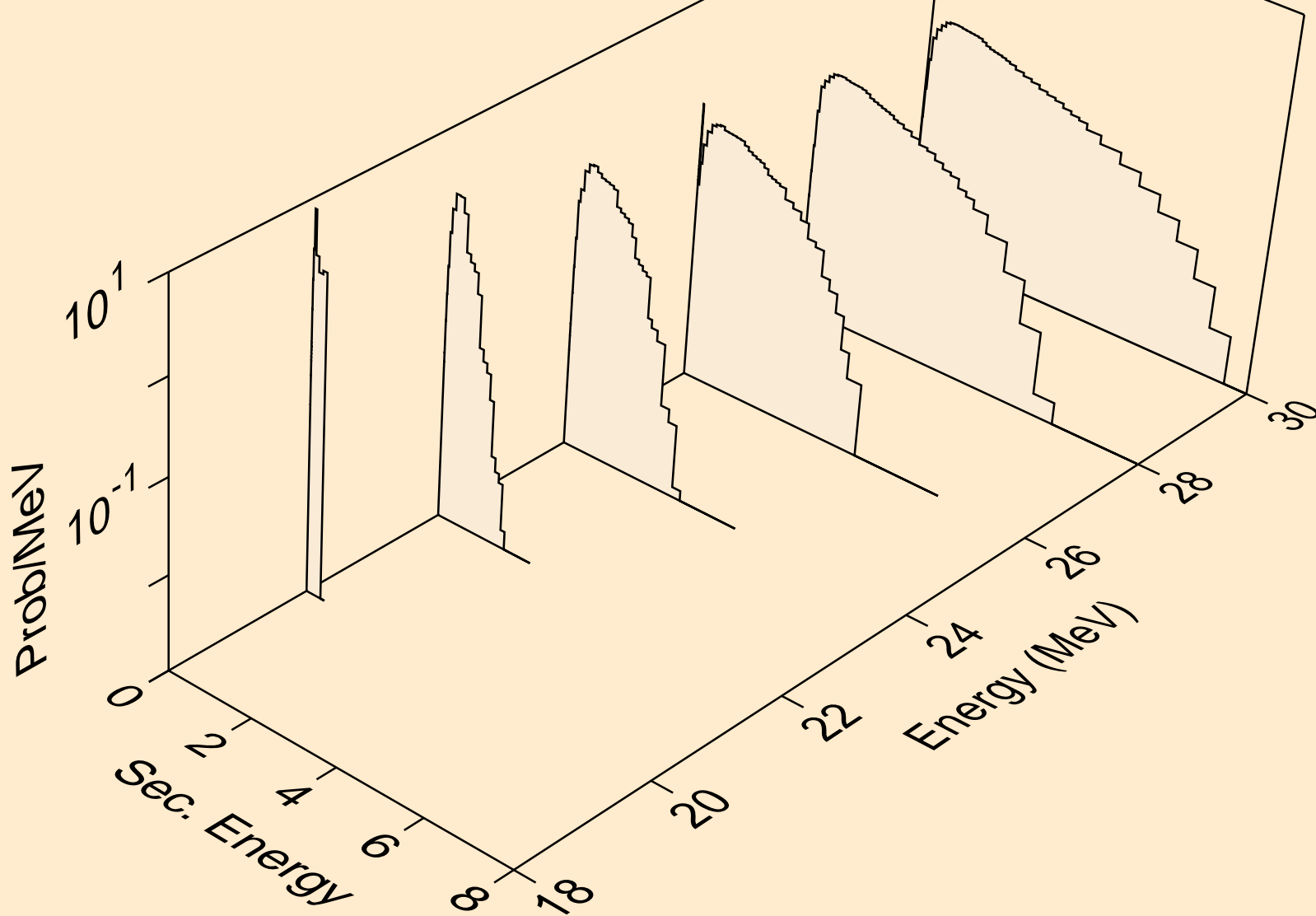




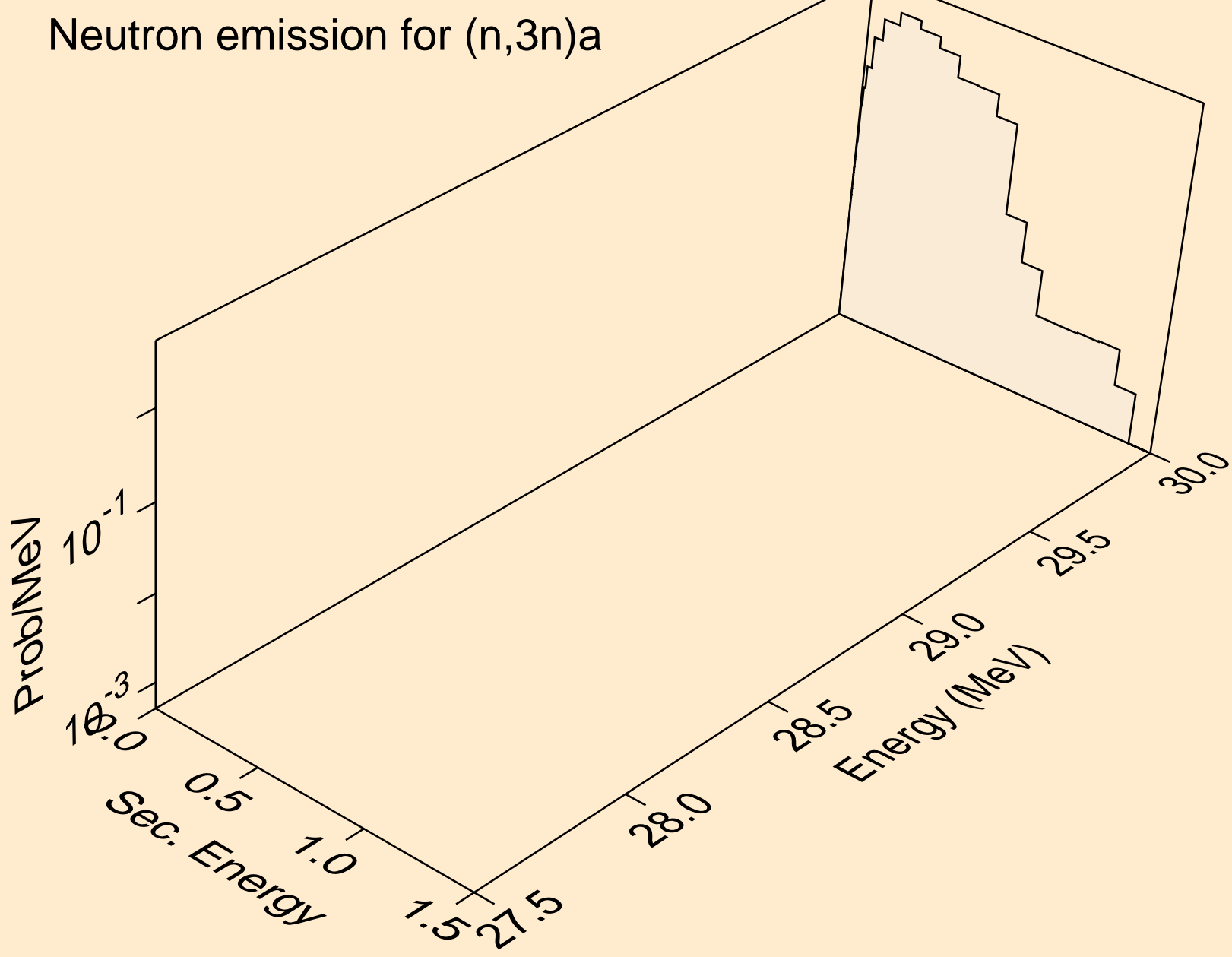
MAT=1631 ACE FILE PRODUCED AT NEA WITH NDEC  
Neutron emission for (n,n\*)a



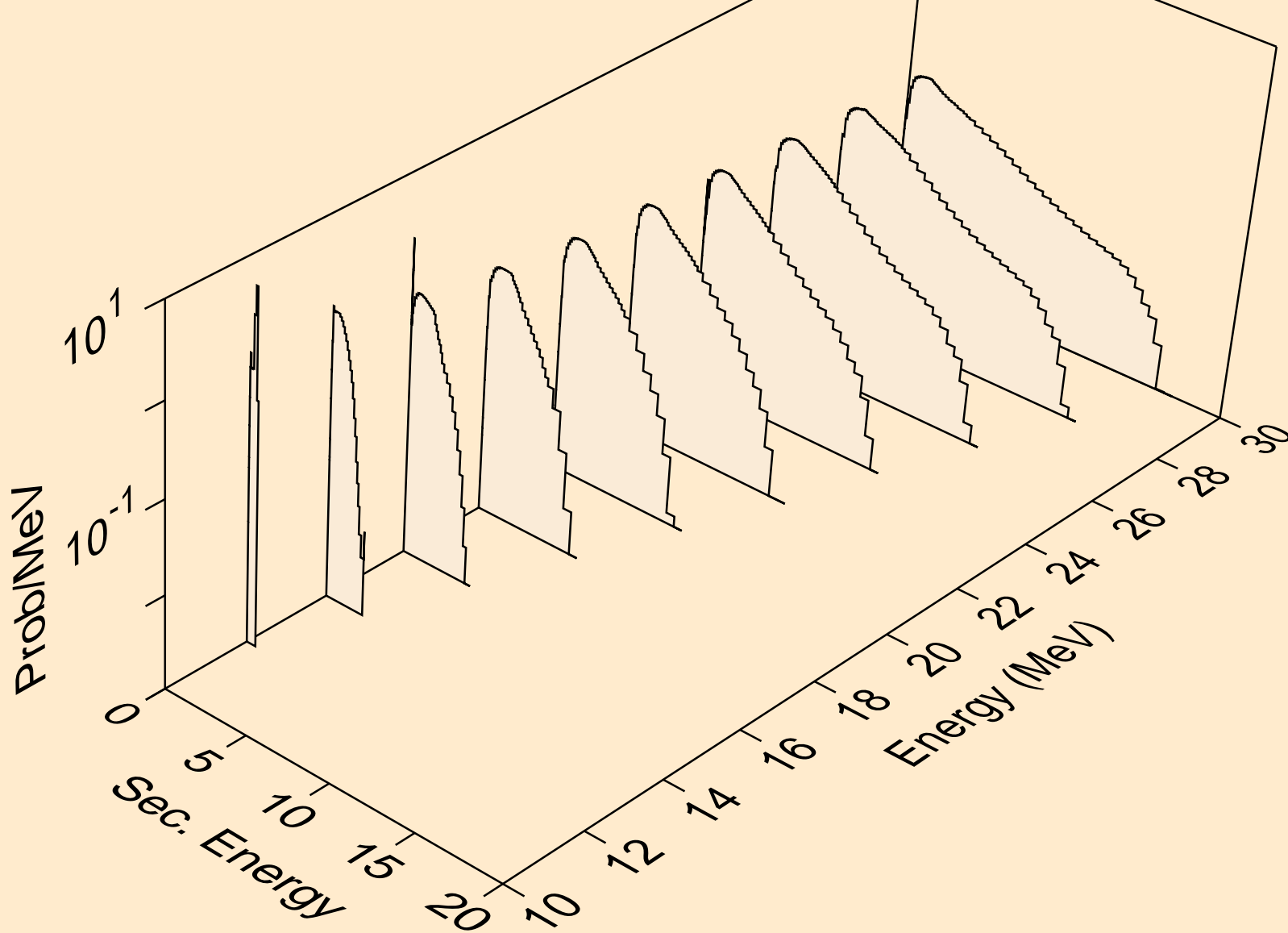
MAT=1631 ACE FILE PRODUCED AT NEA WITH NDEC  
Neutron emission for (n,2n)a



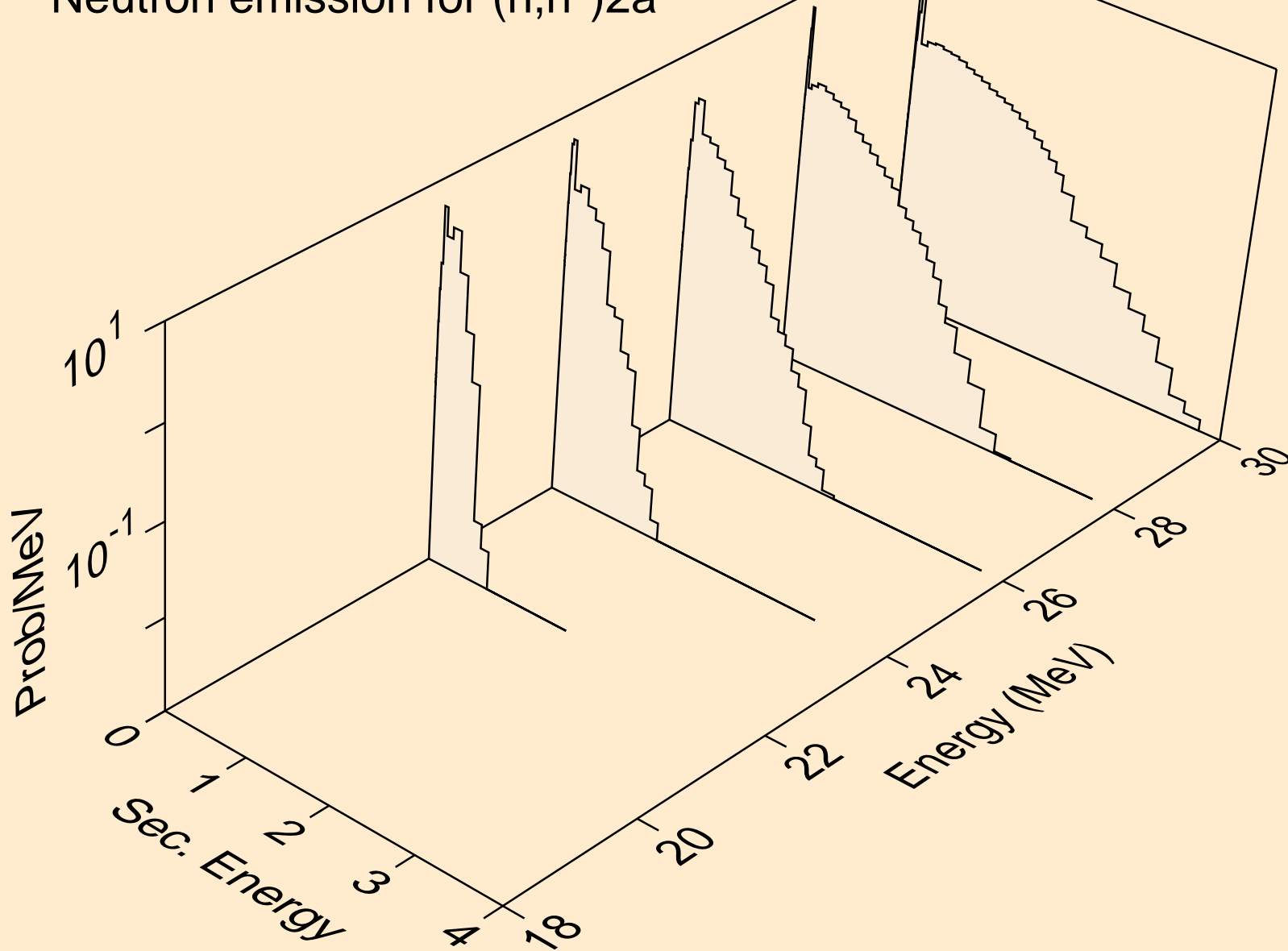
MAT=1631 ACE FILE PRODUCED AT NEA WITH NDEC  
Neutron emission for (n,3n)a



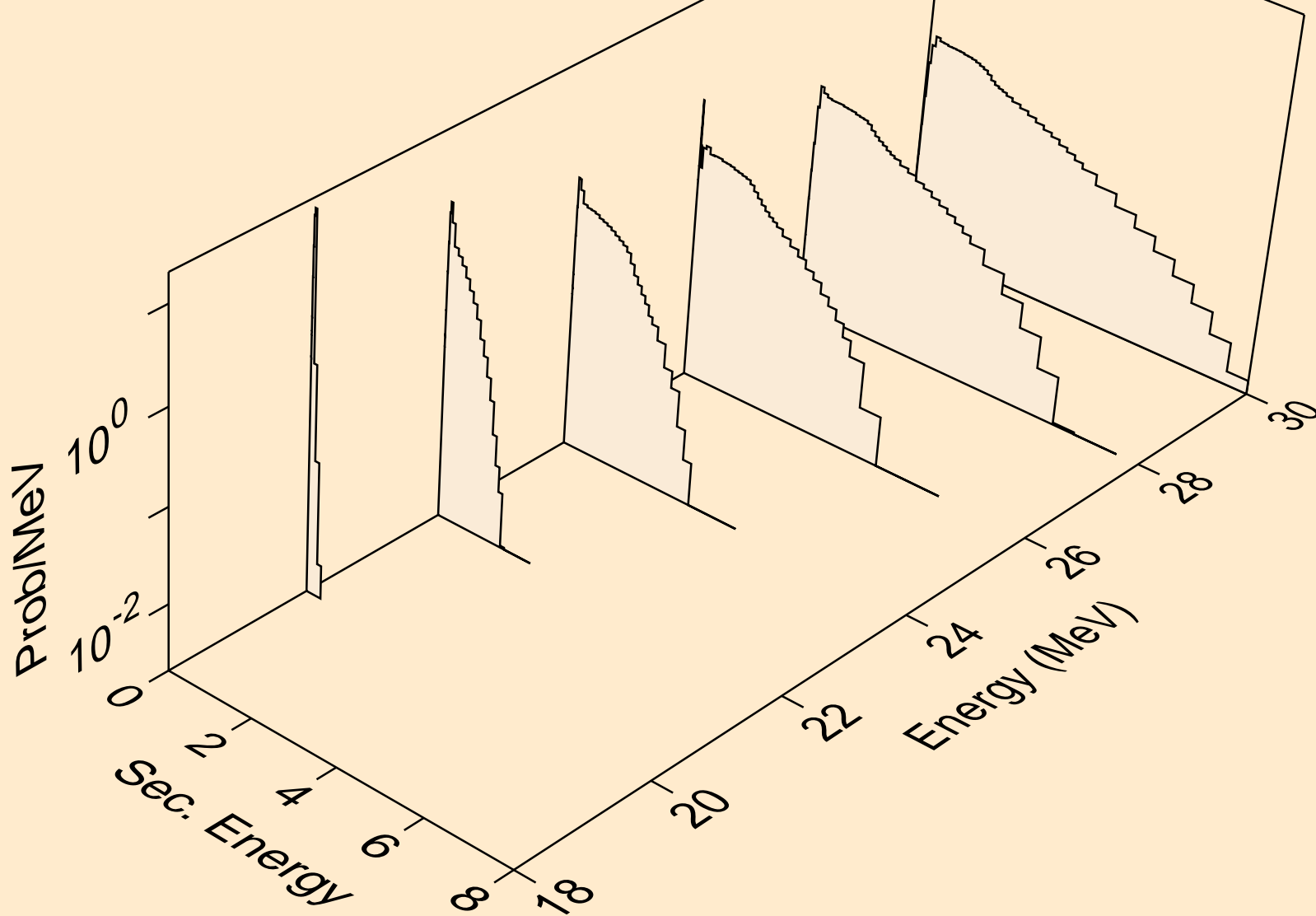
MAT=1631 ACE FILE PRODUCED AT NEA WITH NDEC  
Neutron emission for (n,n\*)p



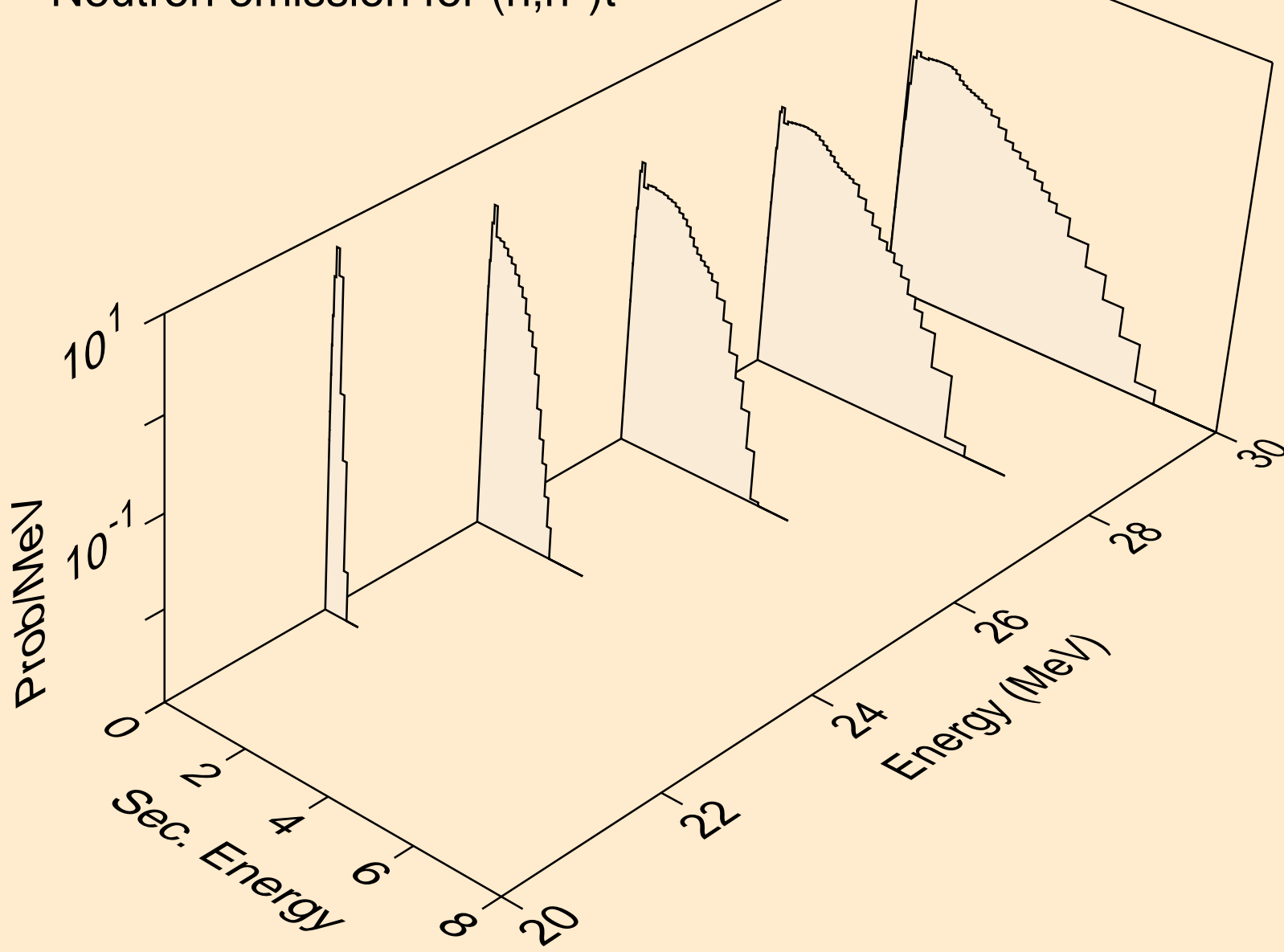
MAT=1631 ACE FILE PRODUCED AT NEA WITH NDEC  
Neutron emission for (n,n\*)2a



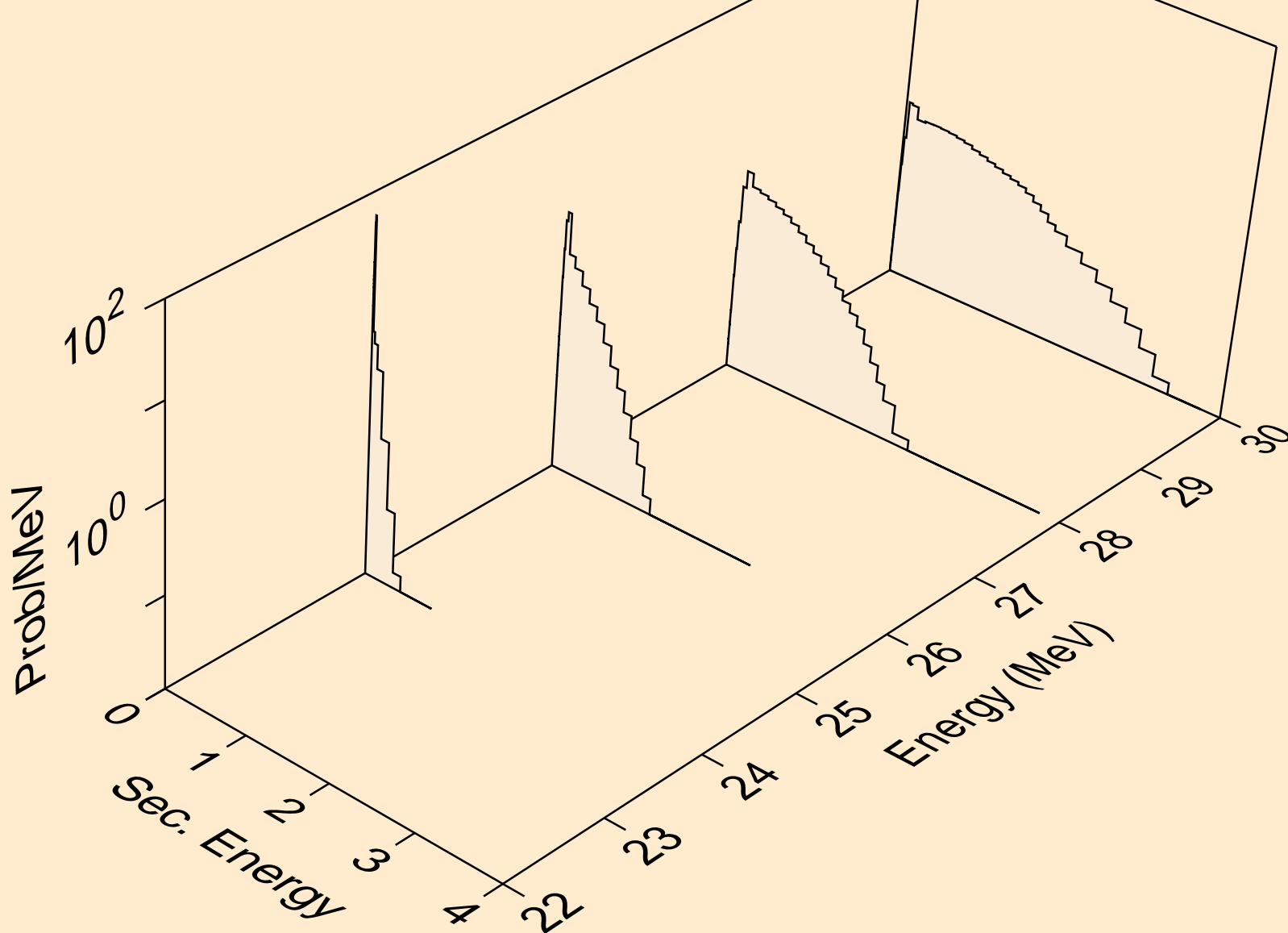
MAT=1631 ACE FILE PRODUCED AT NEA WITH NDEC  
Neutron emission for (n,n\*)d



MAT=1631 ACE FILE PRODUCED AT NEA WITH NDEC  
Neutron emission for (n,n\*)t

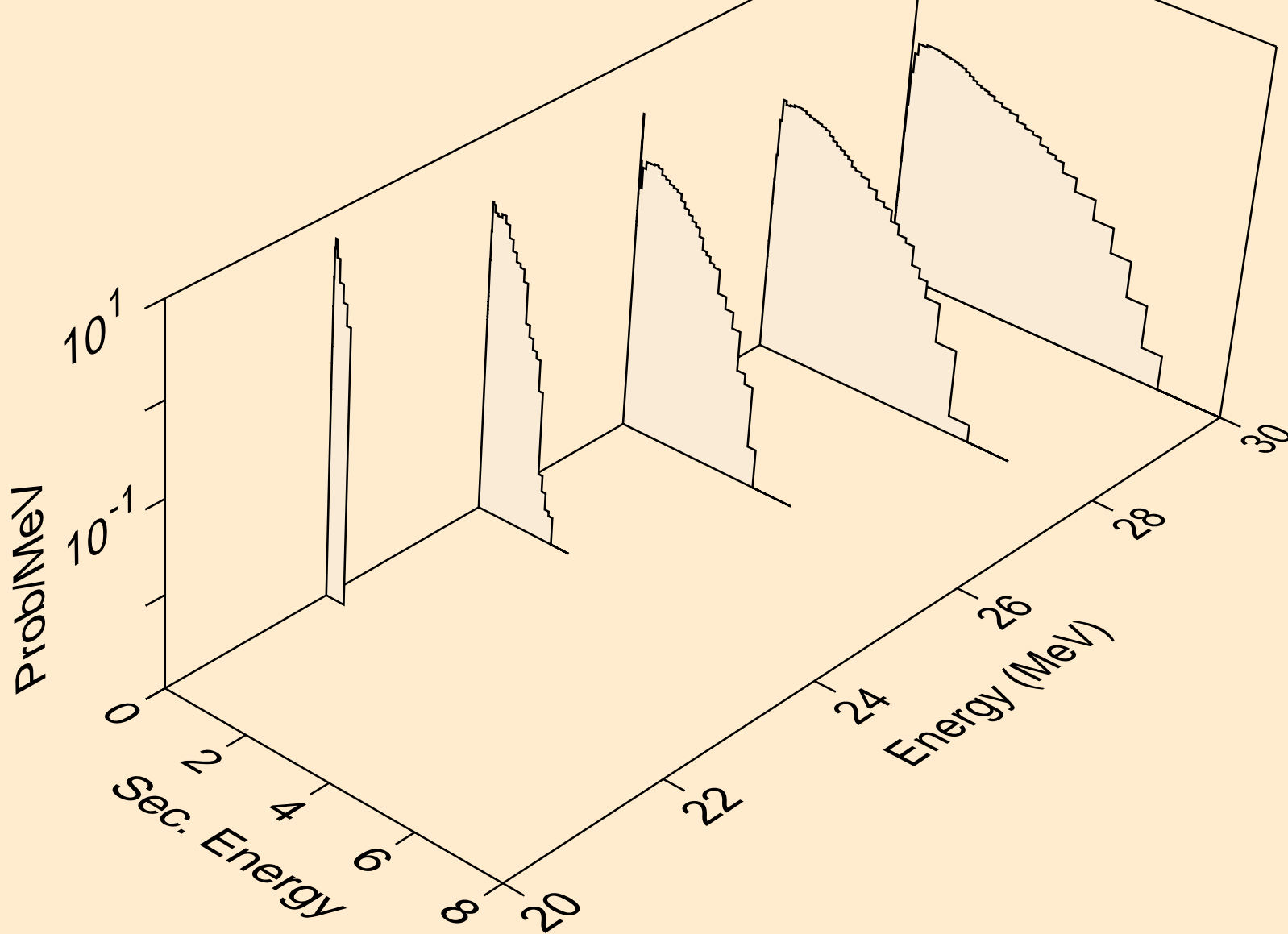


MAT=1631 ACE FILE PRODUCED AT NEA WITH NDEC  
Neutron emission for (n,n\*)he3

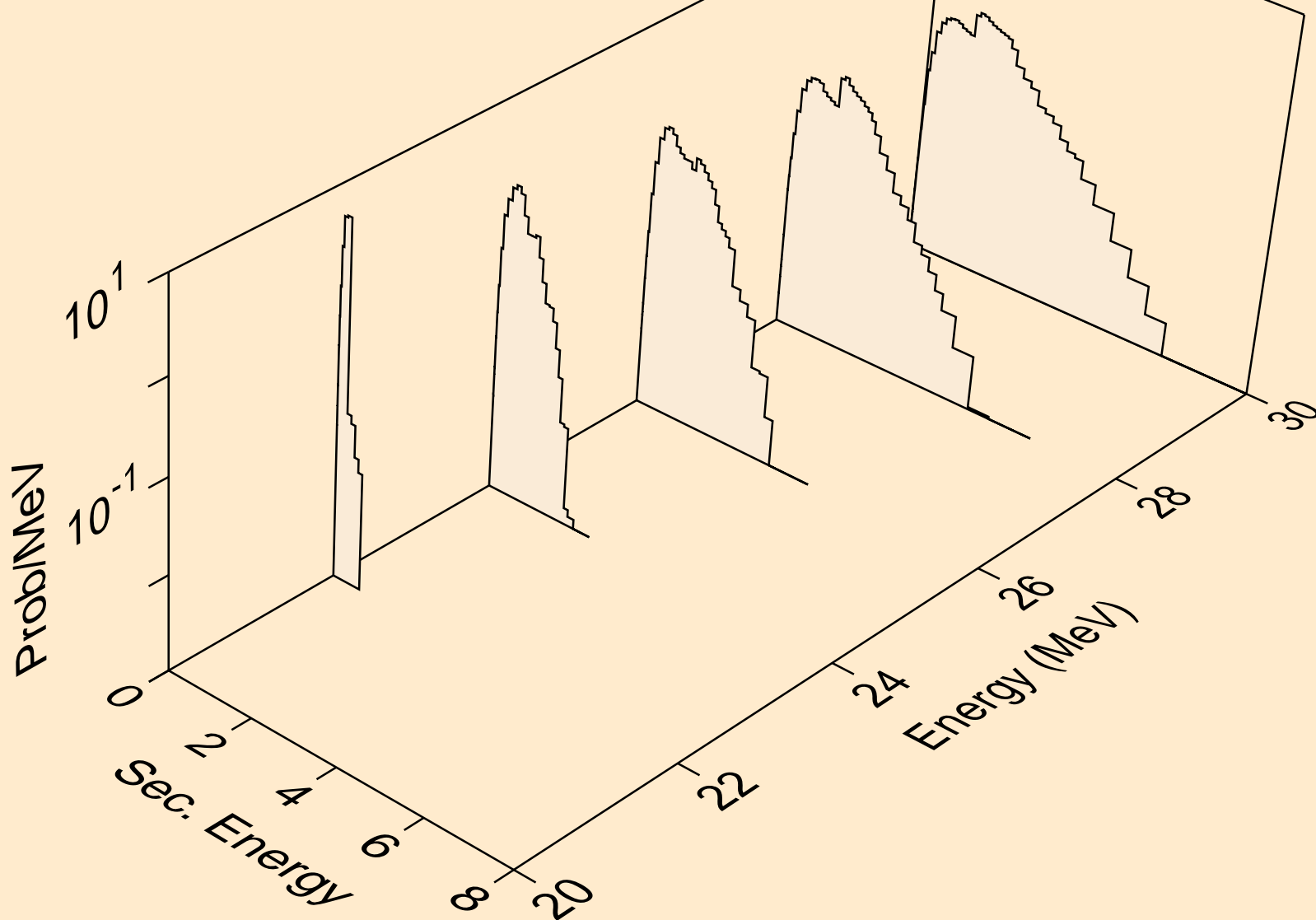




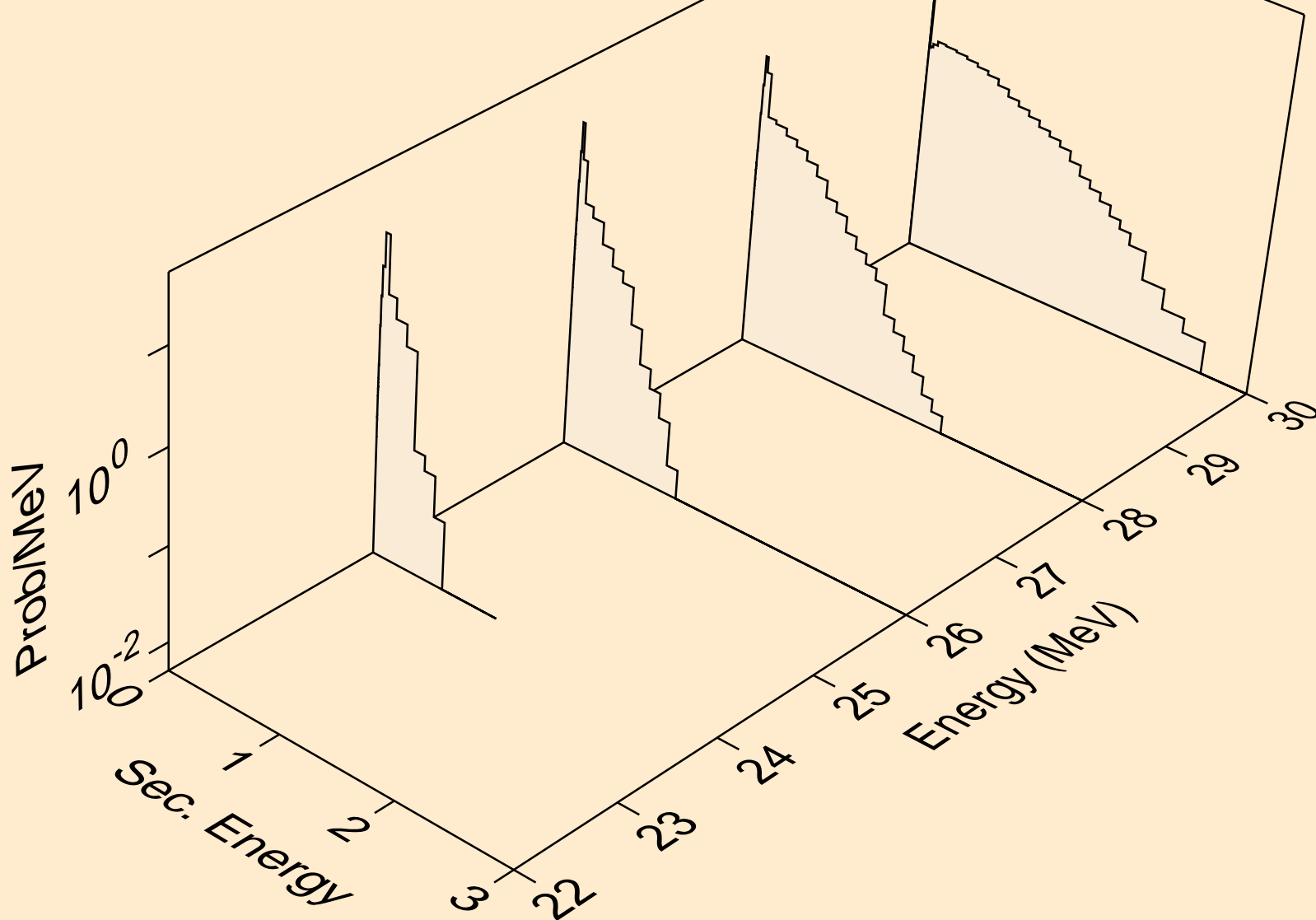
MAT=1631 ACE FILE PRODUCED AT NEA WITH NDEC  
Neutron emission for (n,2np)



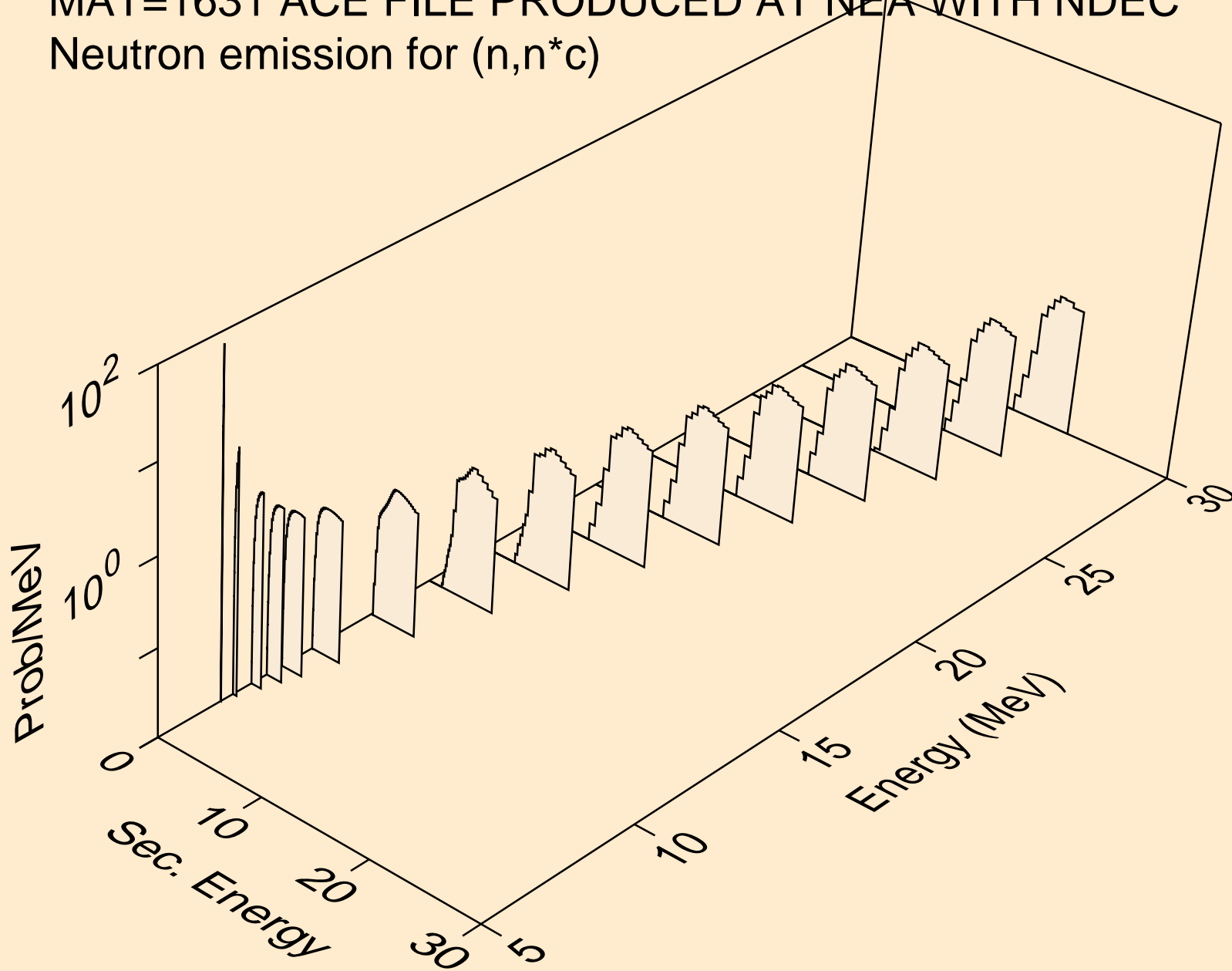
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Neutron emission for (n,2np)



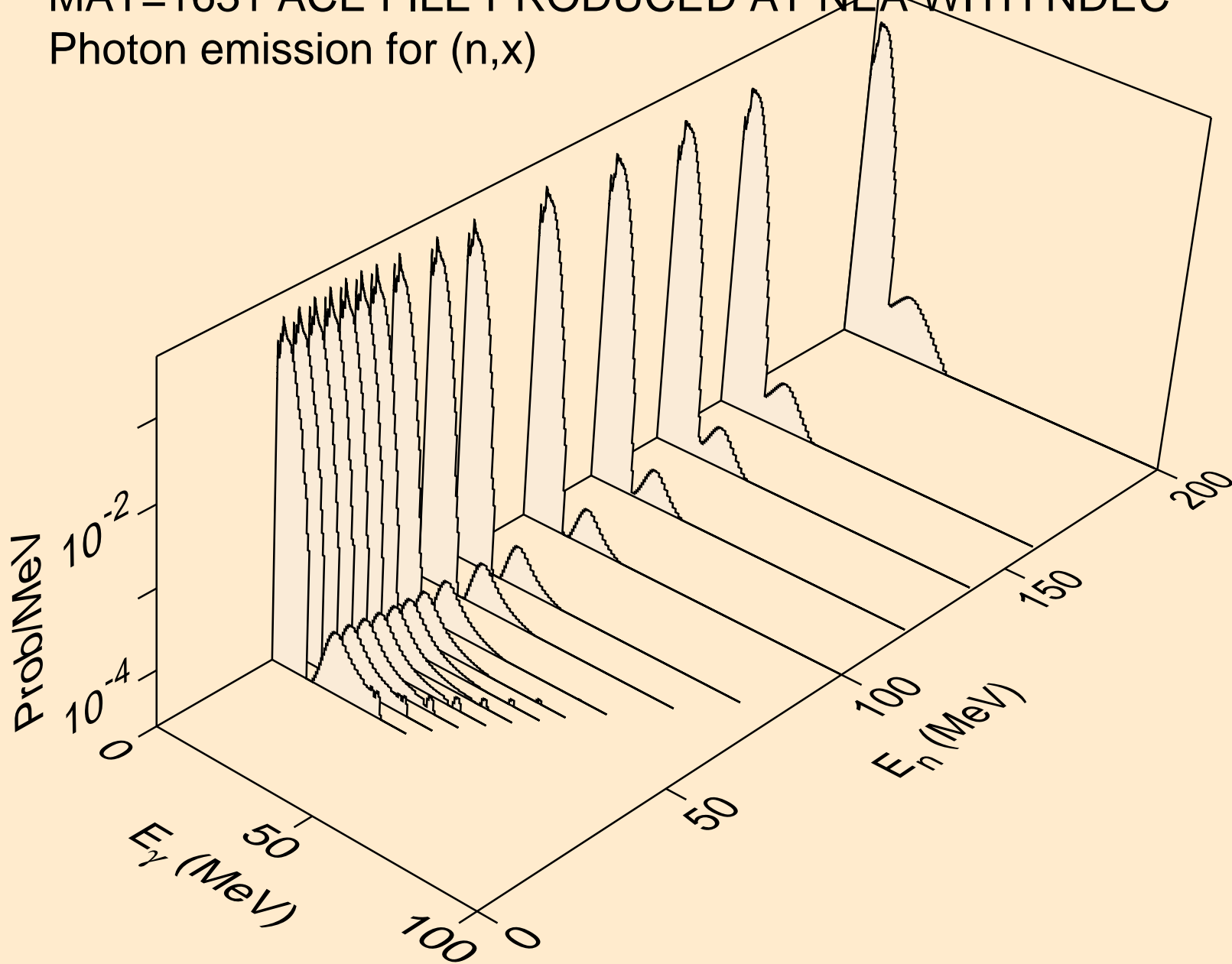
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Neutron emission for (n,npa)



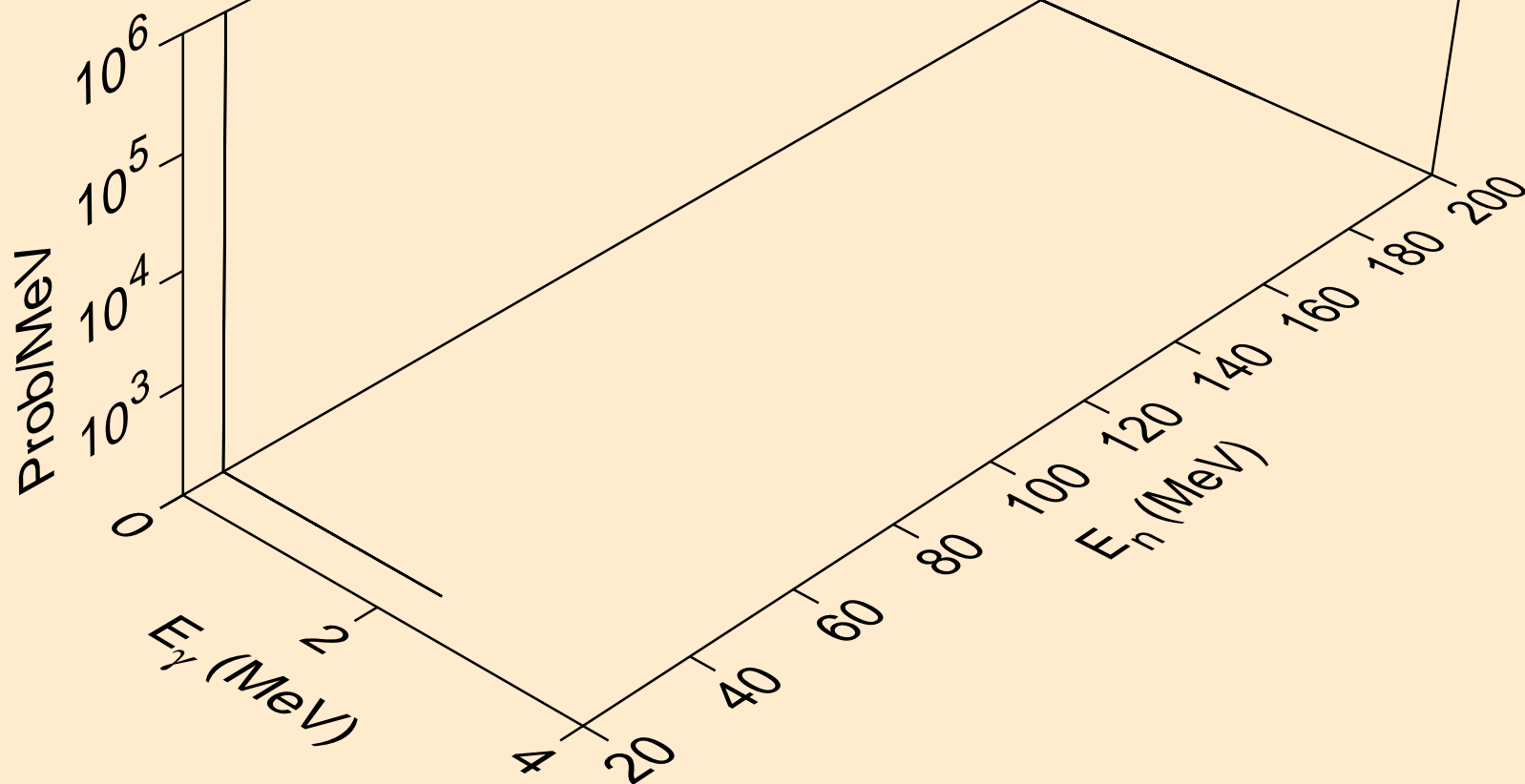
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Neutron emission for (n,n\*c)



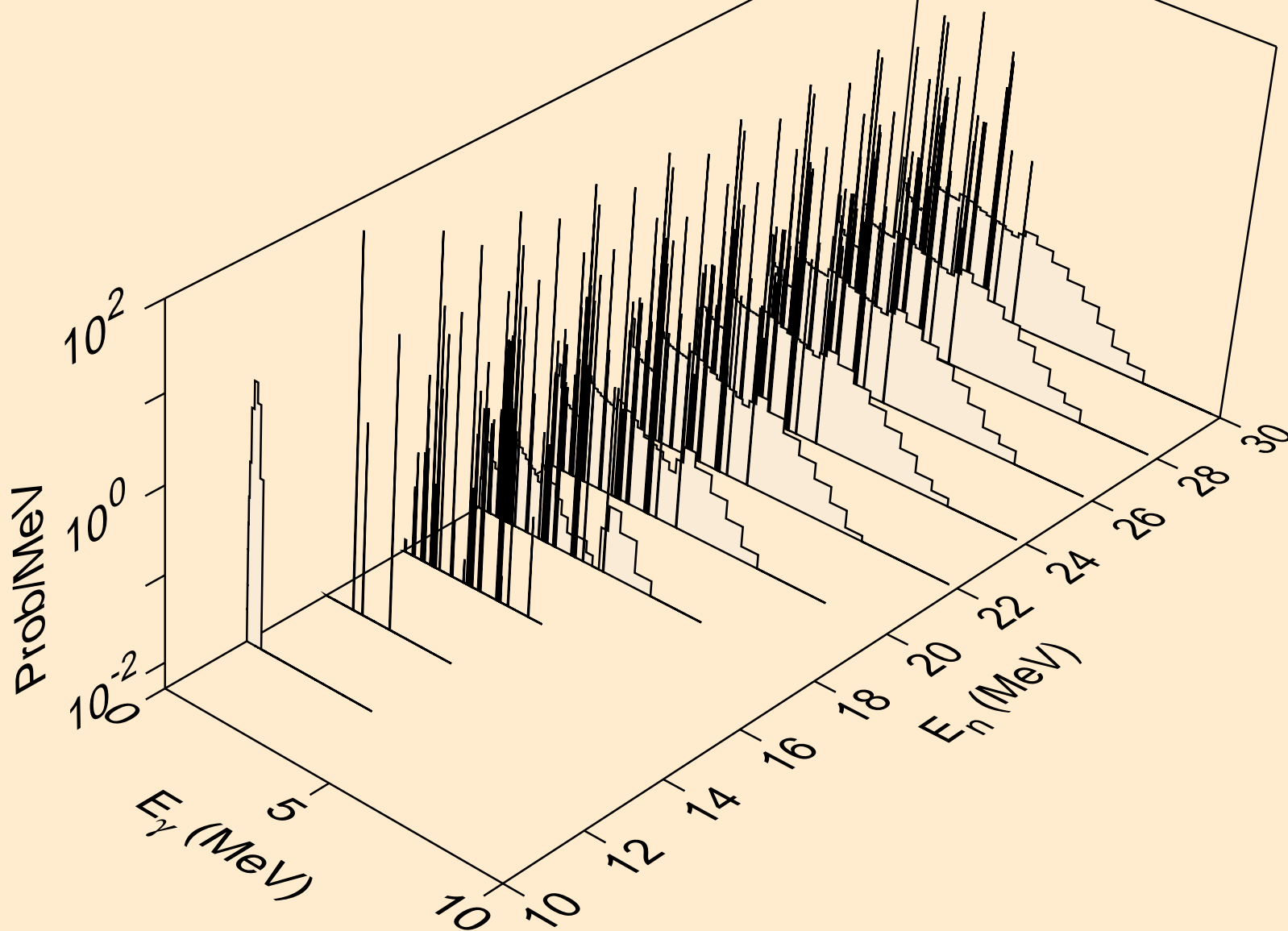
MAT=1631 ACE FILE PRODUCED AT NEA WITH NDEC  
Photon emission for (n,x)



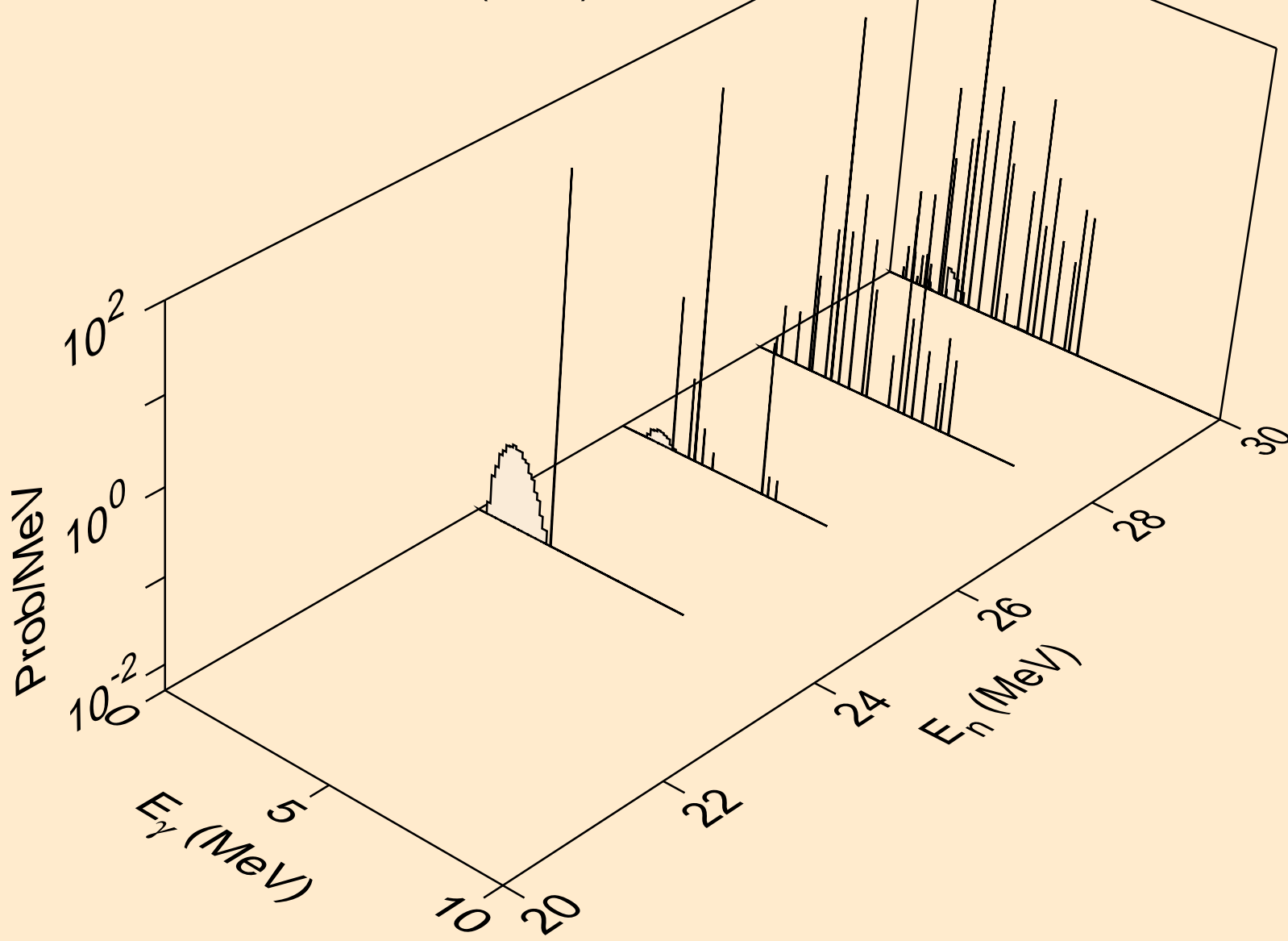
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Photon emission for (n,2nd)



MAT=1631 ACE FILE PRODUCED AT NEA WITH NDEC  
Photon emission for (n,2n)

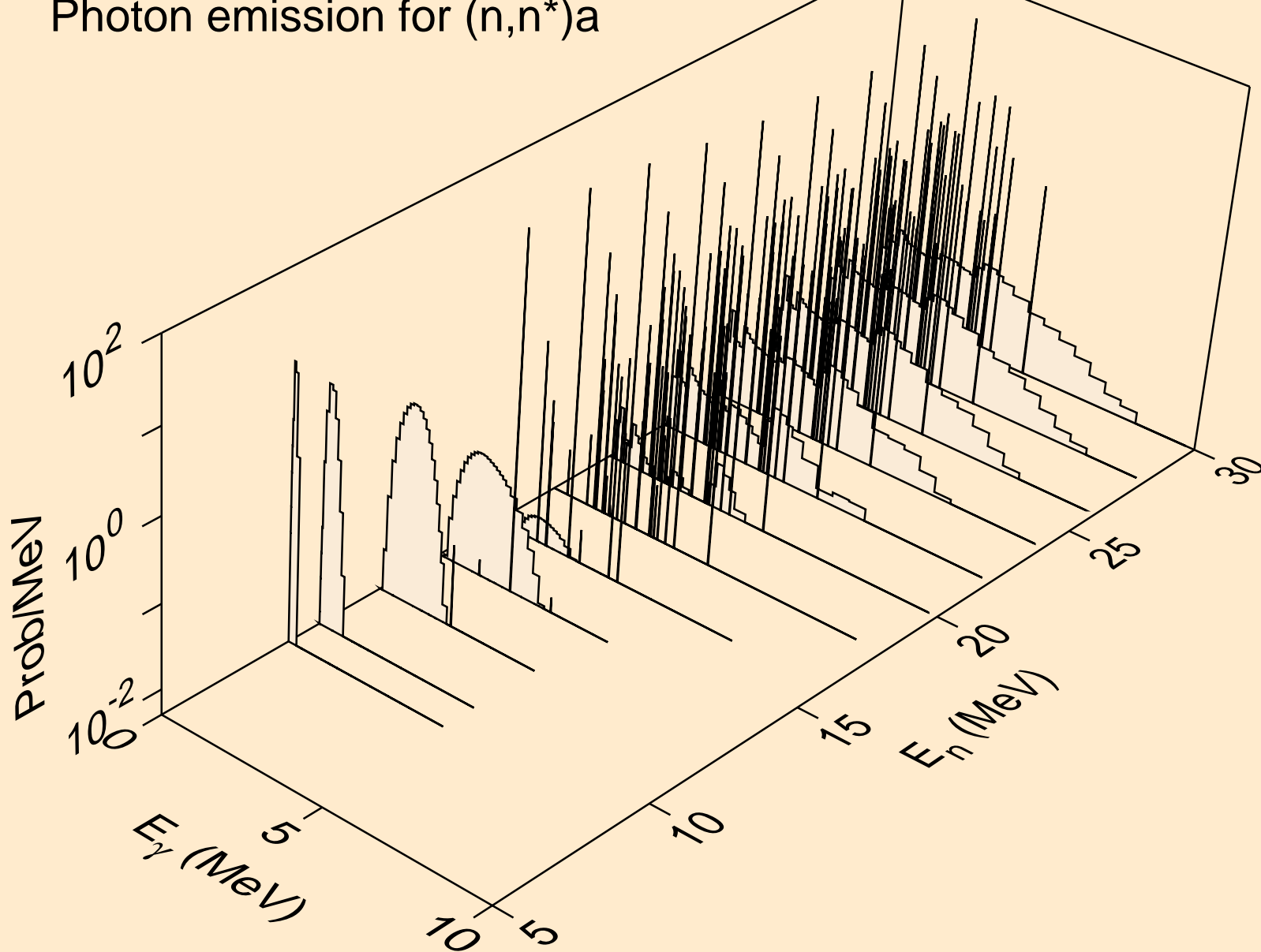


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Photon emission for (n,3n)

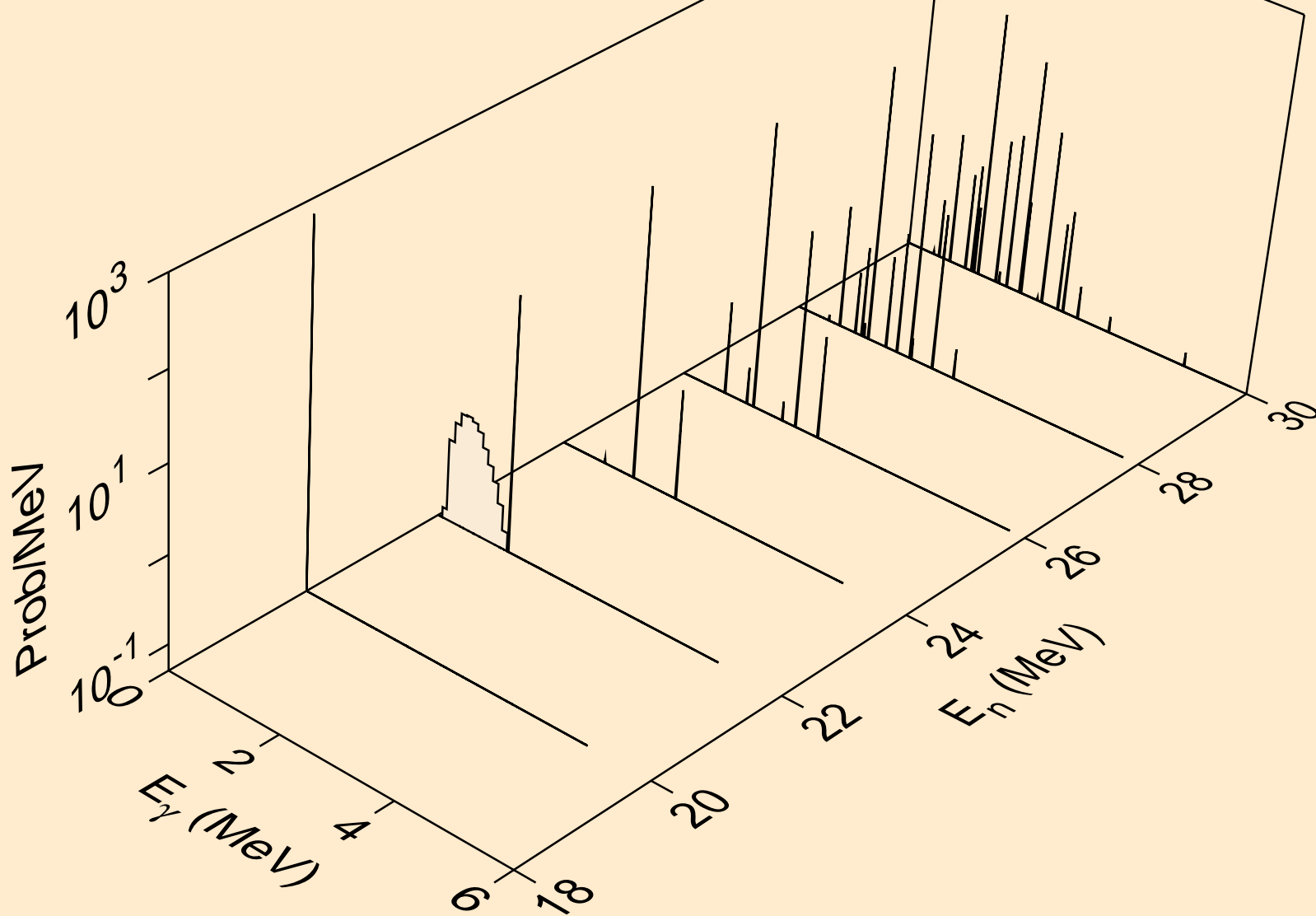




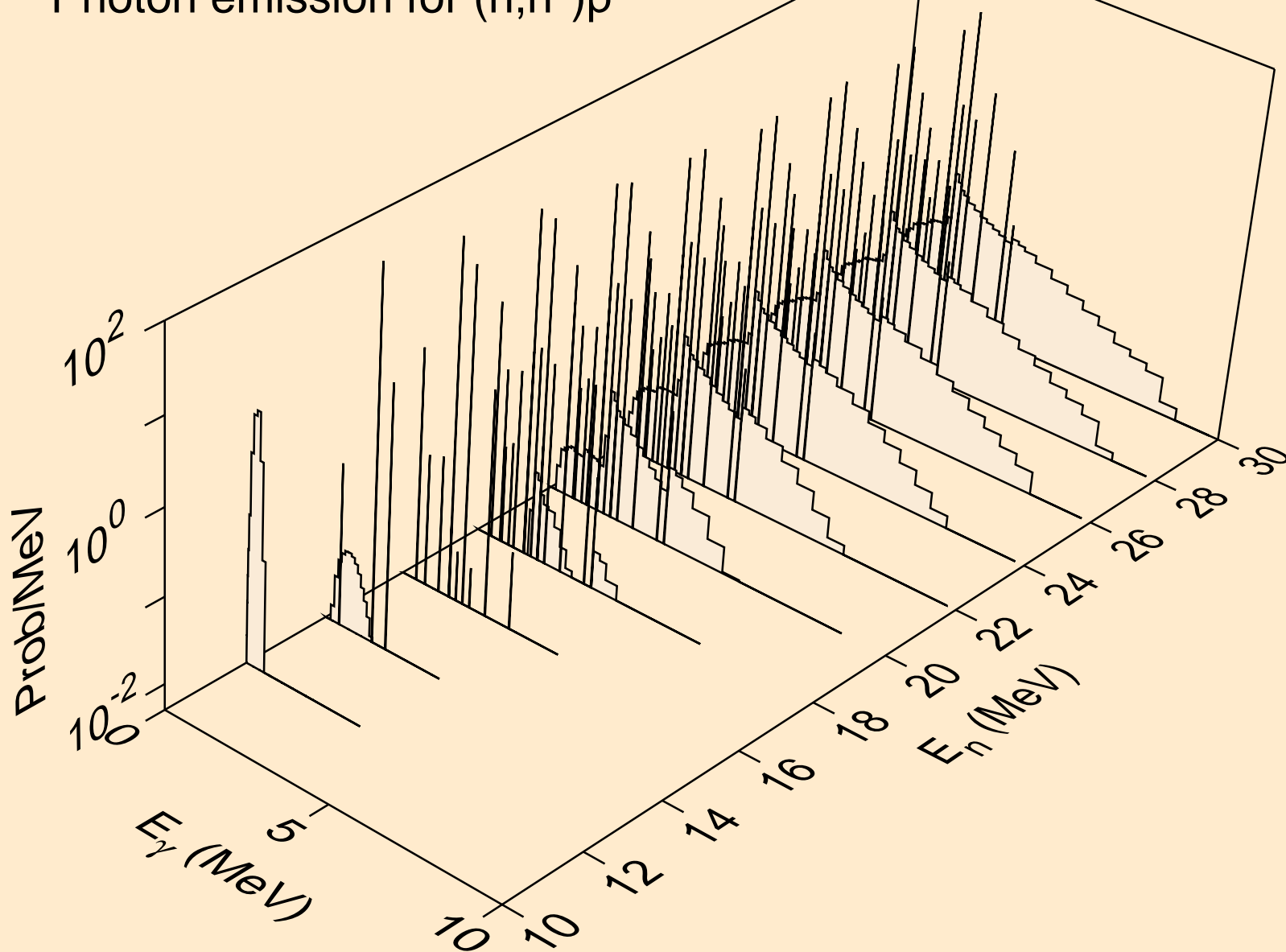
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Photon emission for (n,n\*)a



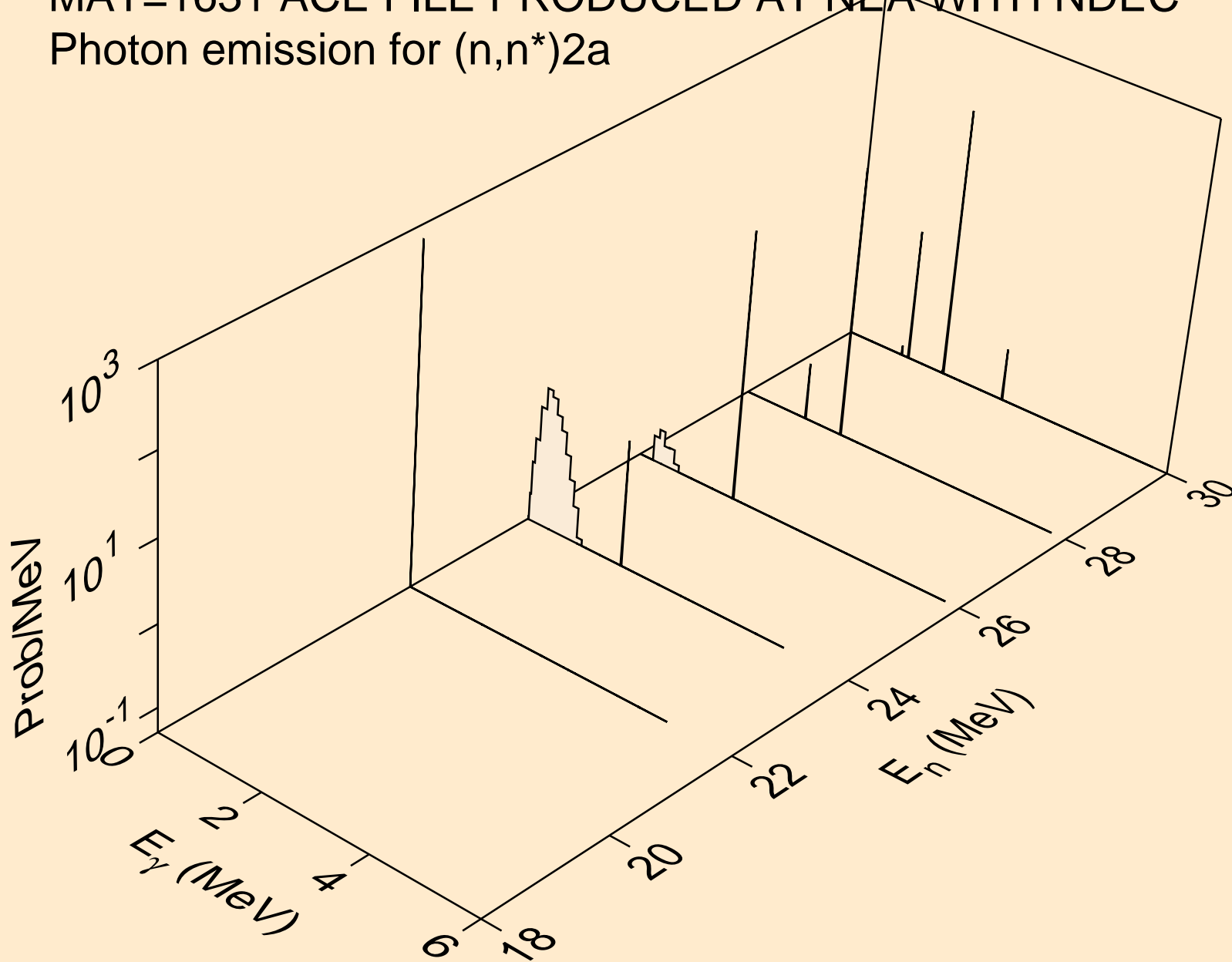
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Photon emission for (n,2n)a



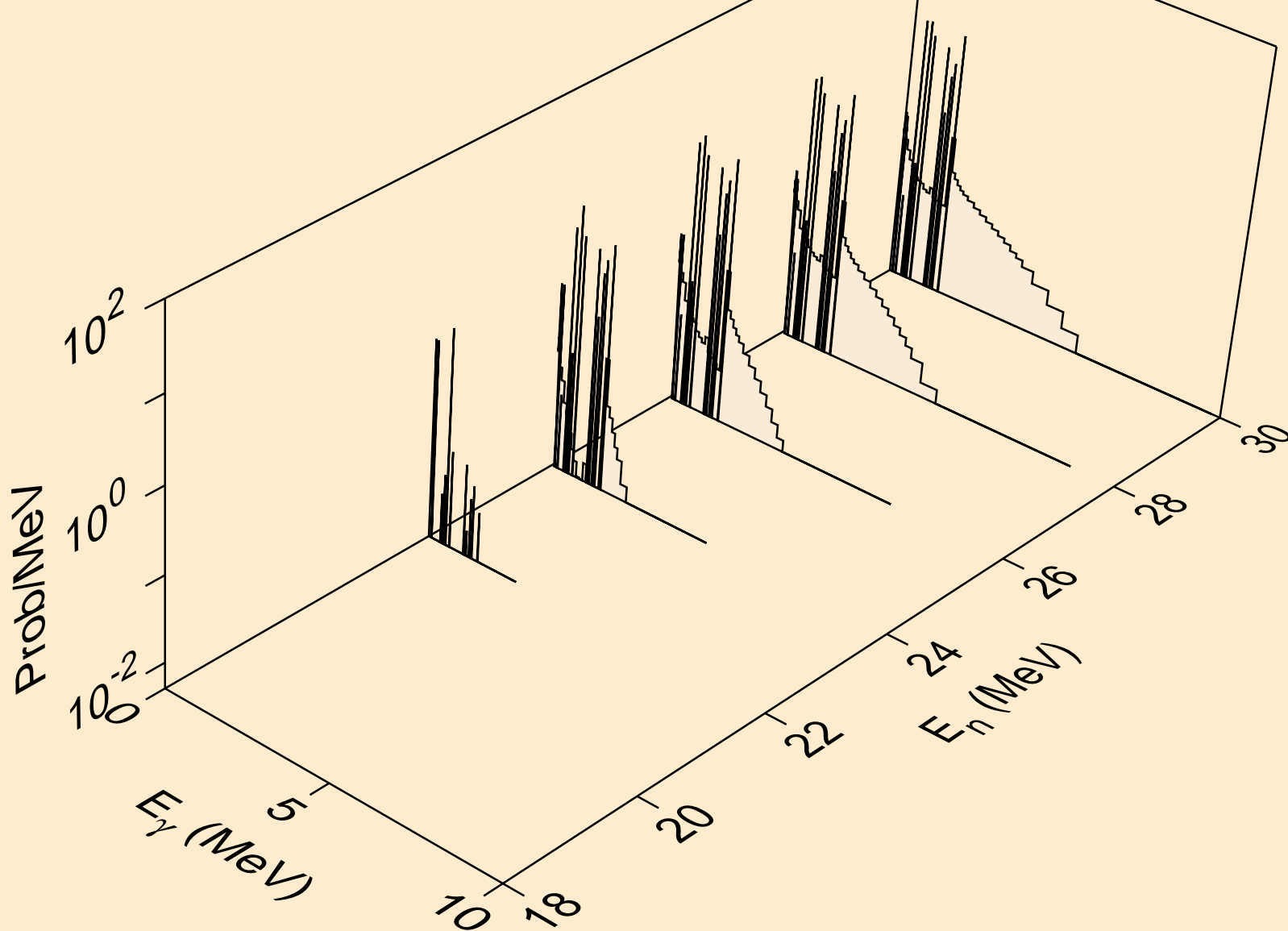
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Photon emission for (n,n\*)p



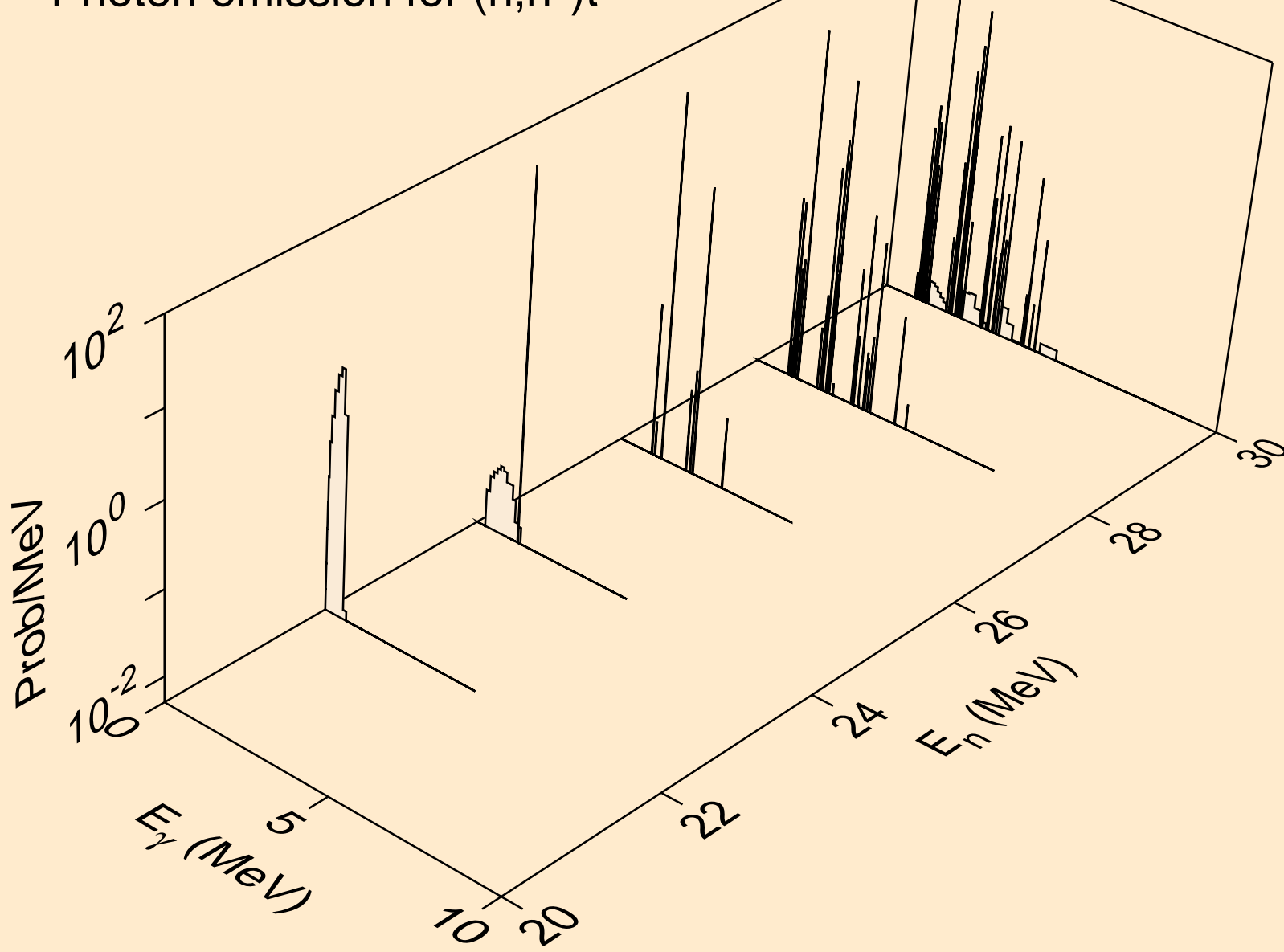
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Photon emission for (n,n\*)2a



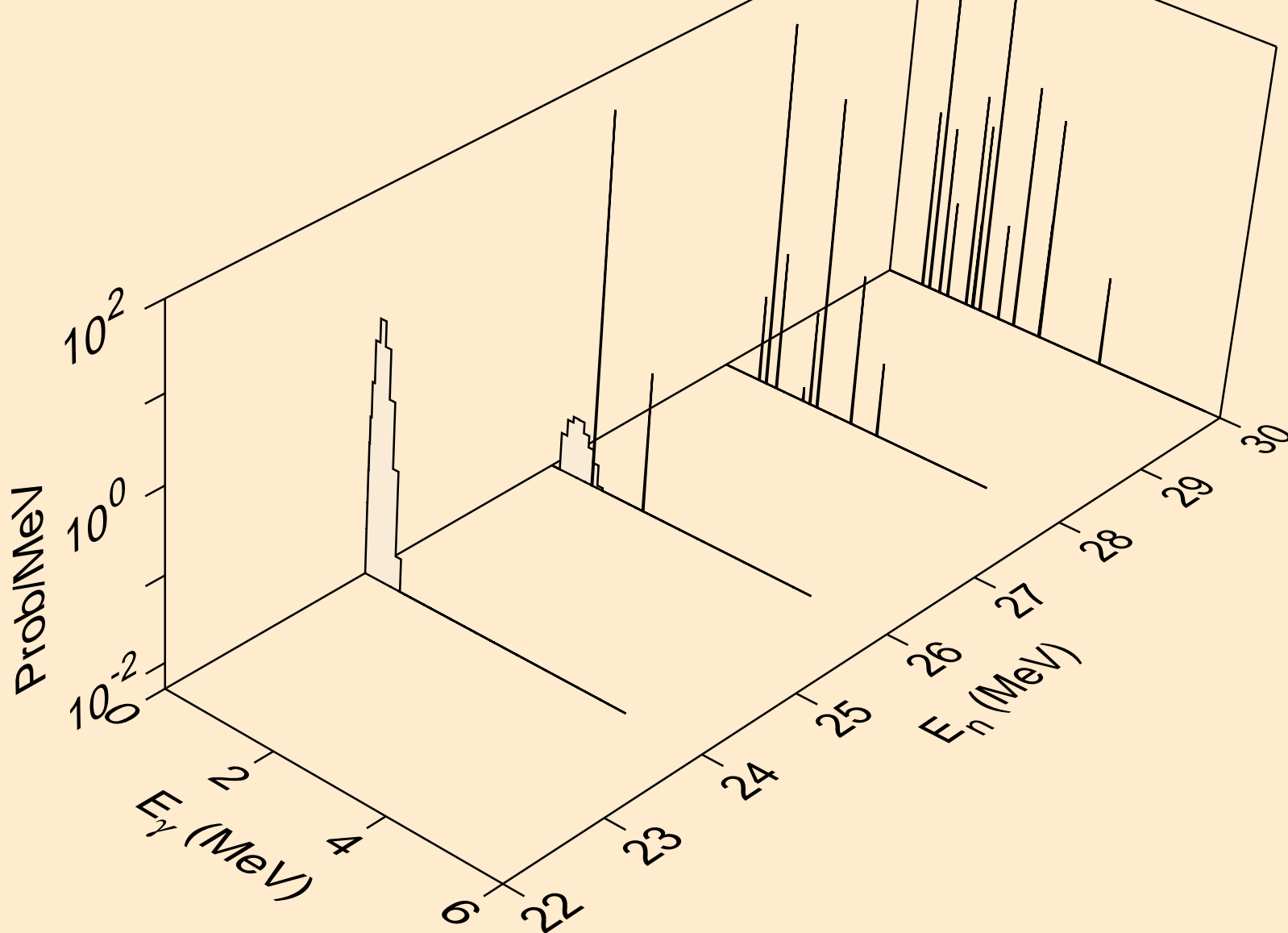
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Photon emission for (n,n\*)d



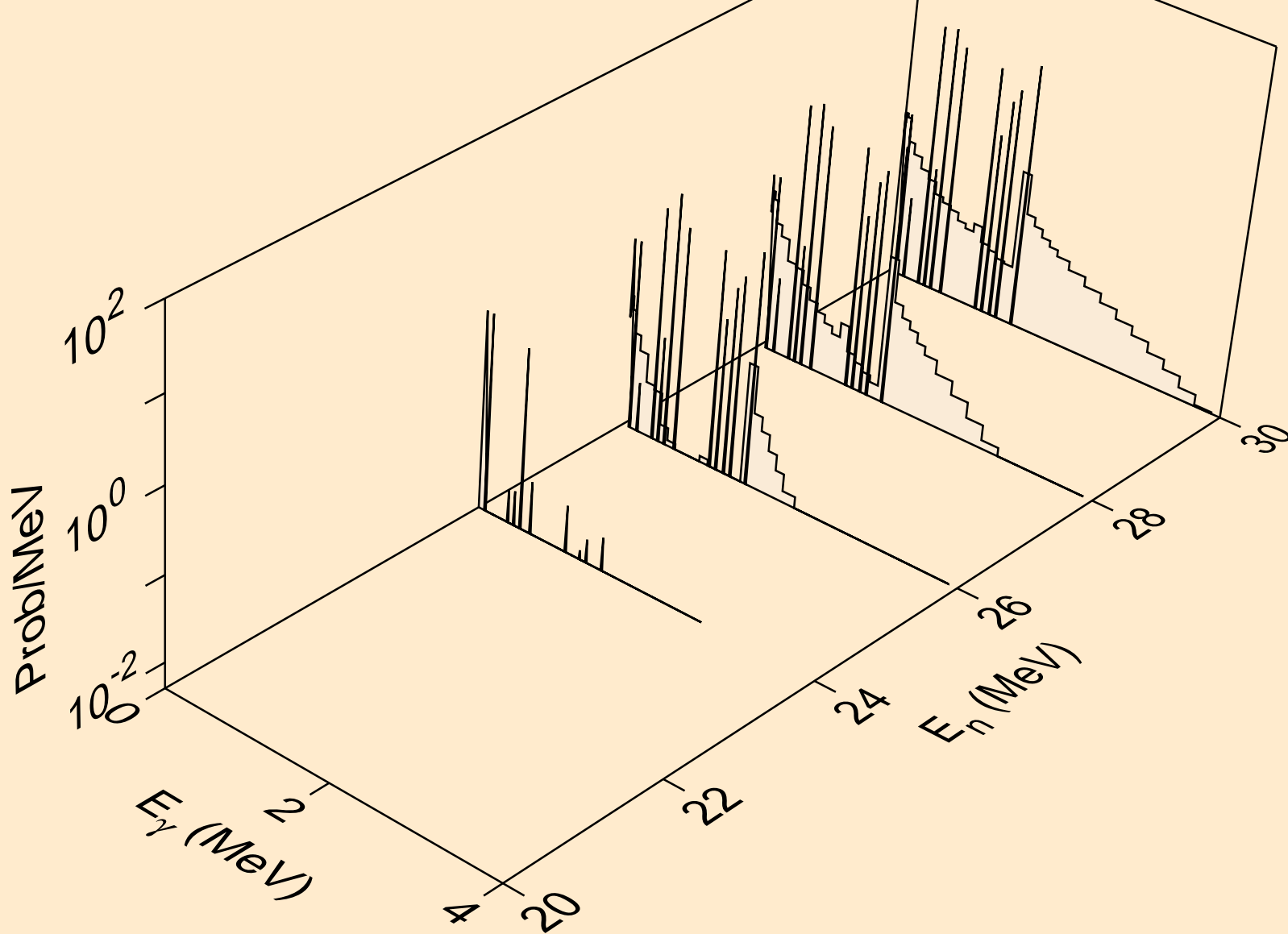
MAT=1631 ACE FILE PRODUCED AT NEA WITH NDEC  
Photon emission for (n,n\*)t



MAT=1631 ACE FILE PRODUCED AT NEA WITH NDEC  
Photon emission for (n,n\*)he3

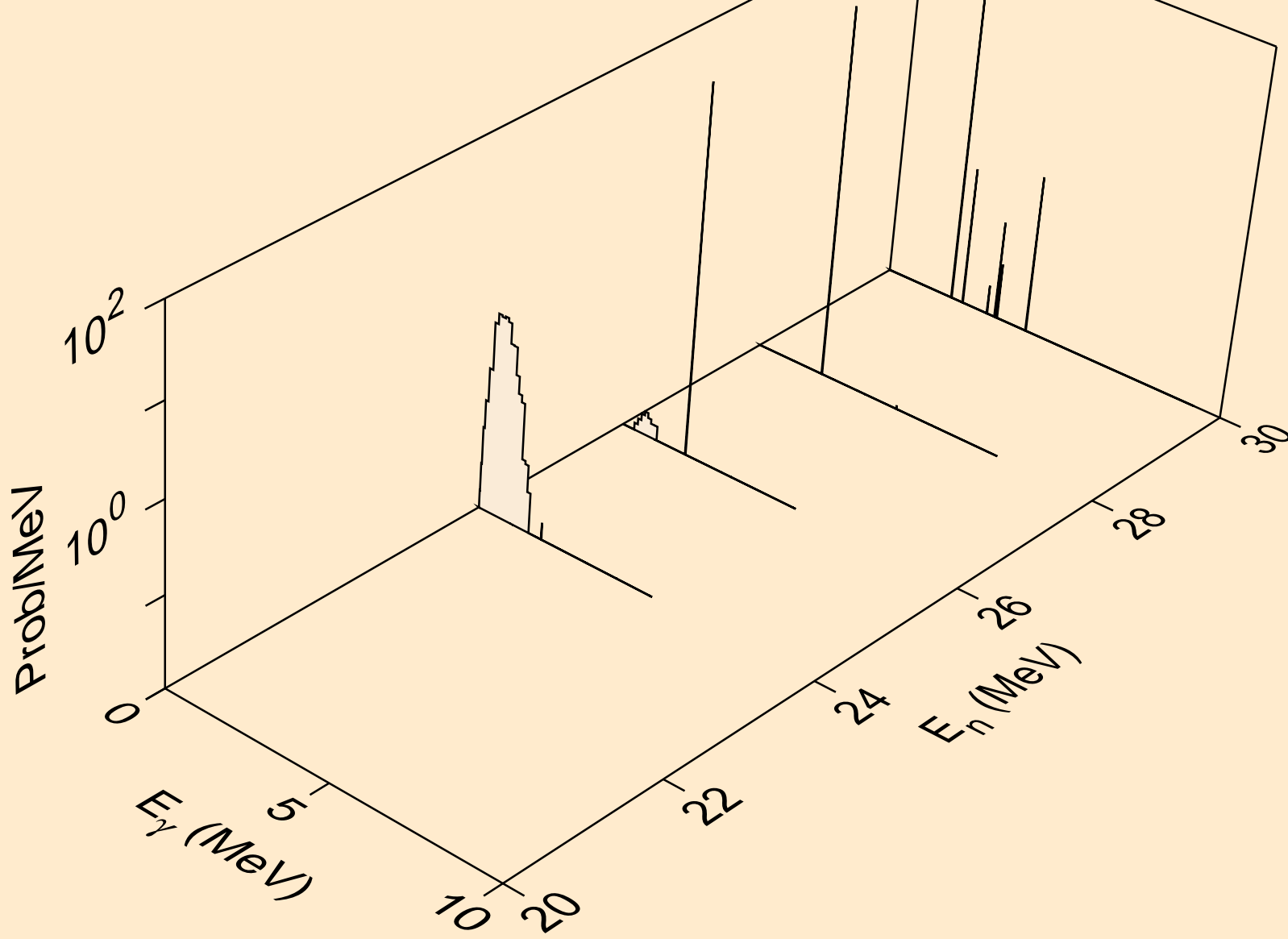


MAT=1631 ACE FILE PRODUCED AT NEA WITH NDEC  
Photon emission for (n,2np)

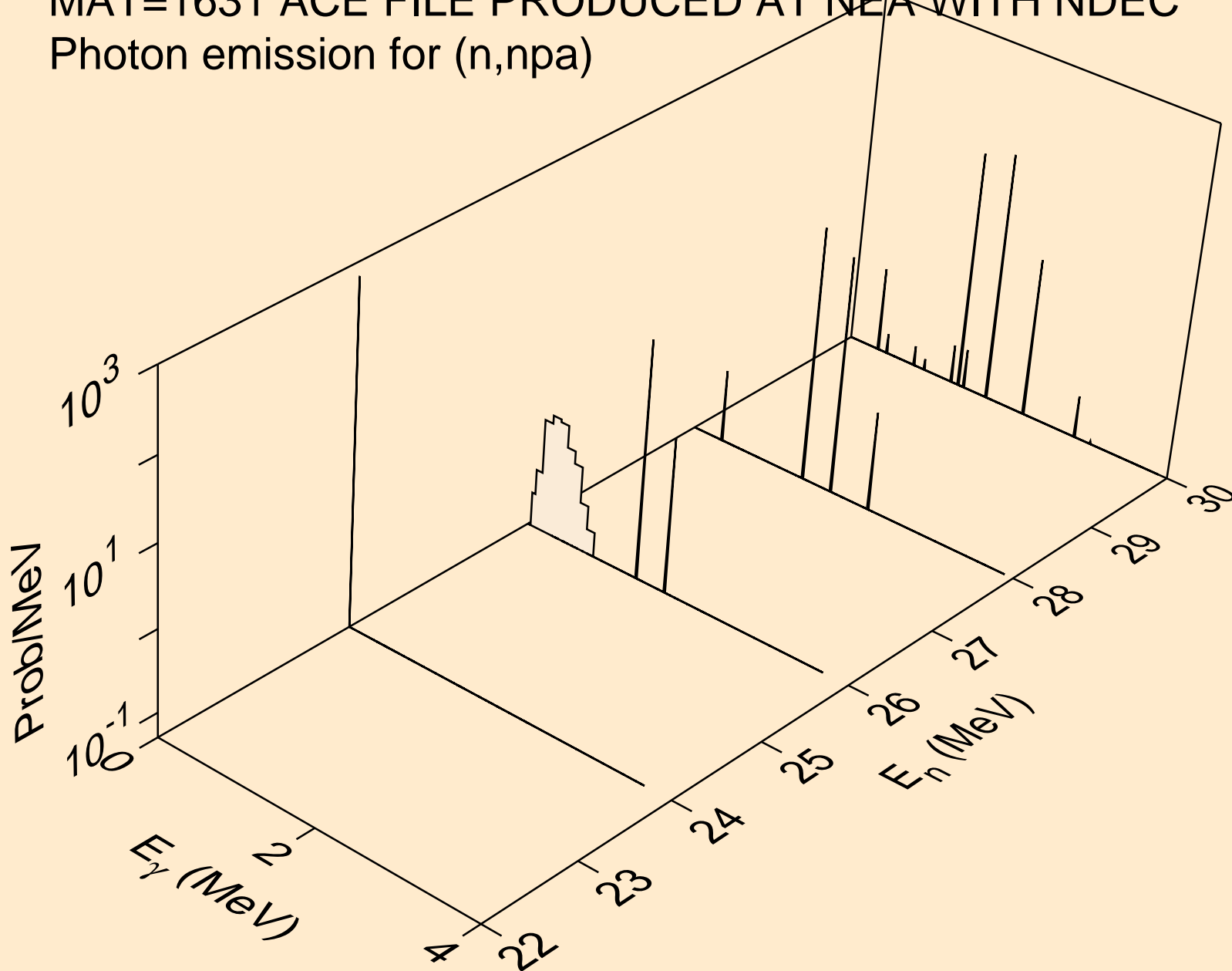




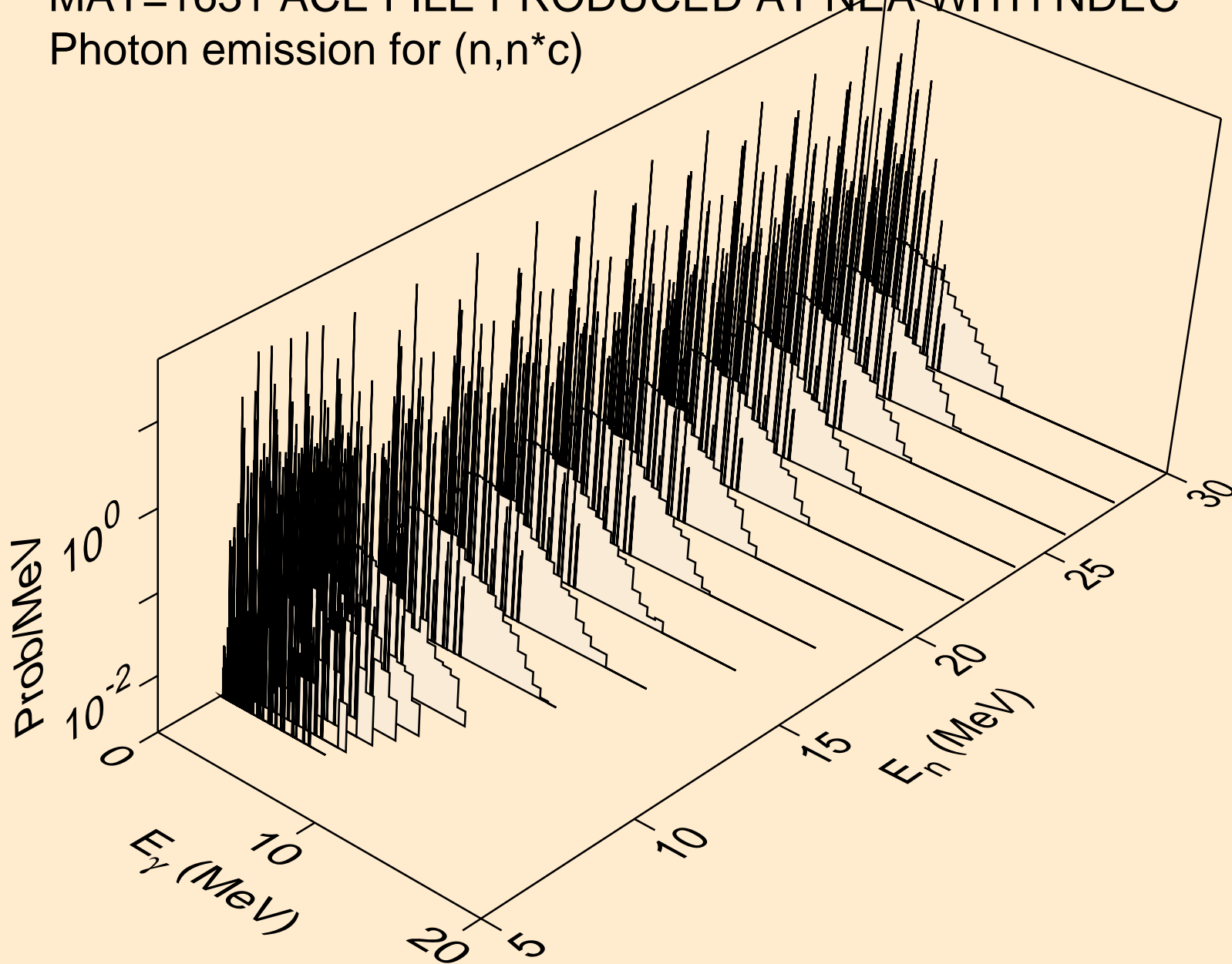
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Photon emission for (n,2np)



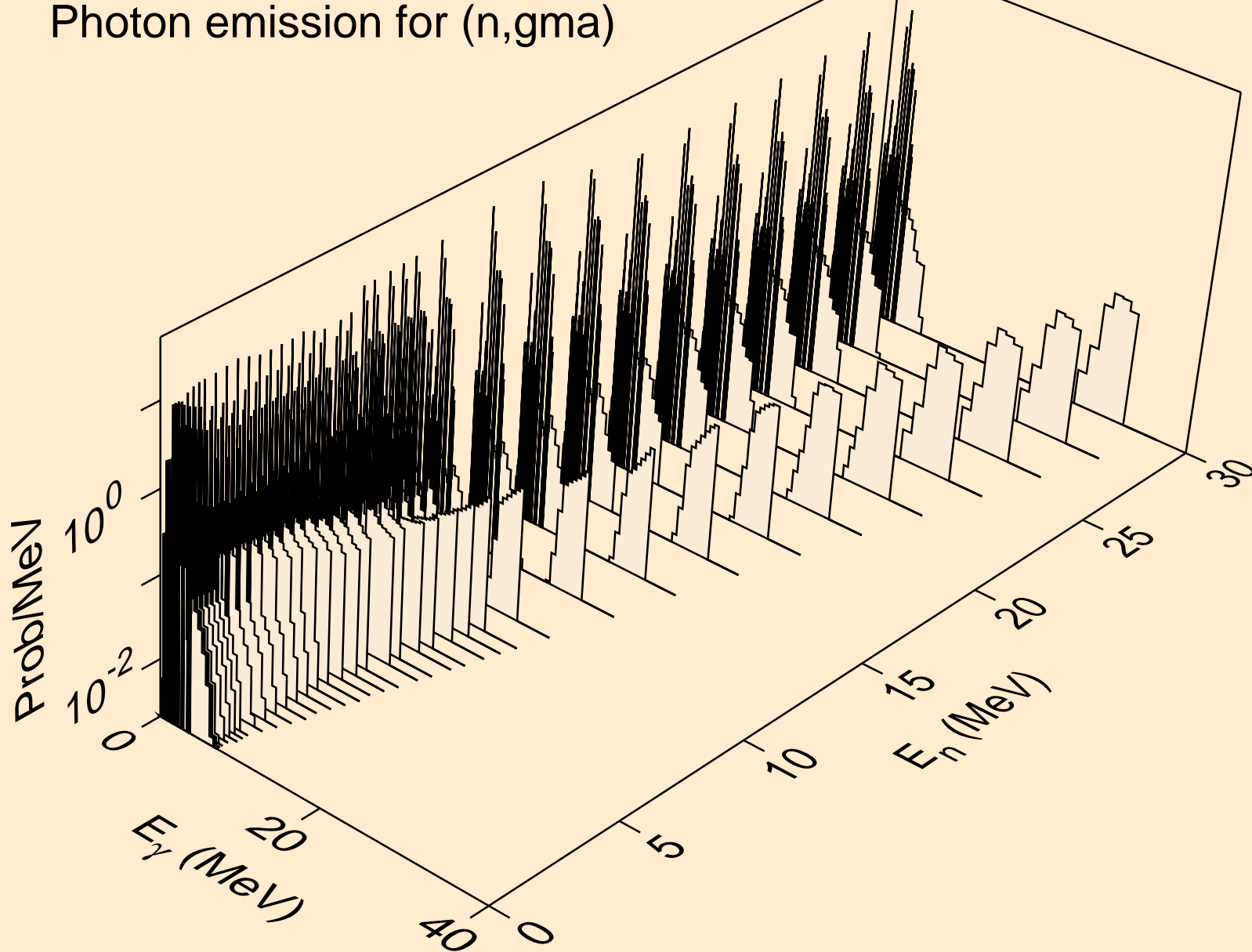
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Photon emission for (n,npa)



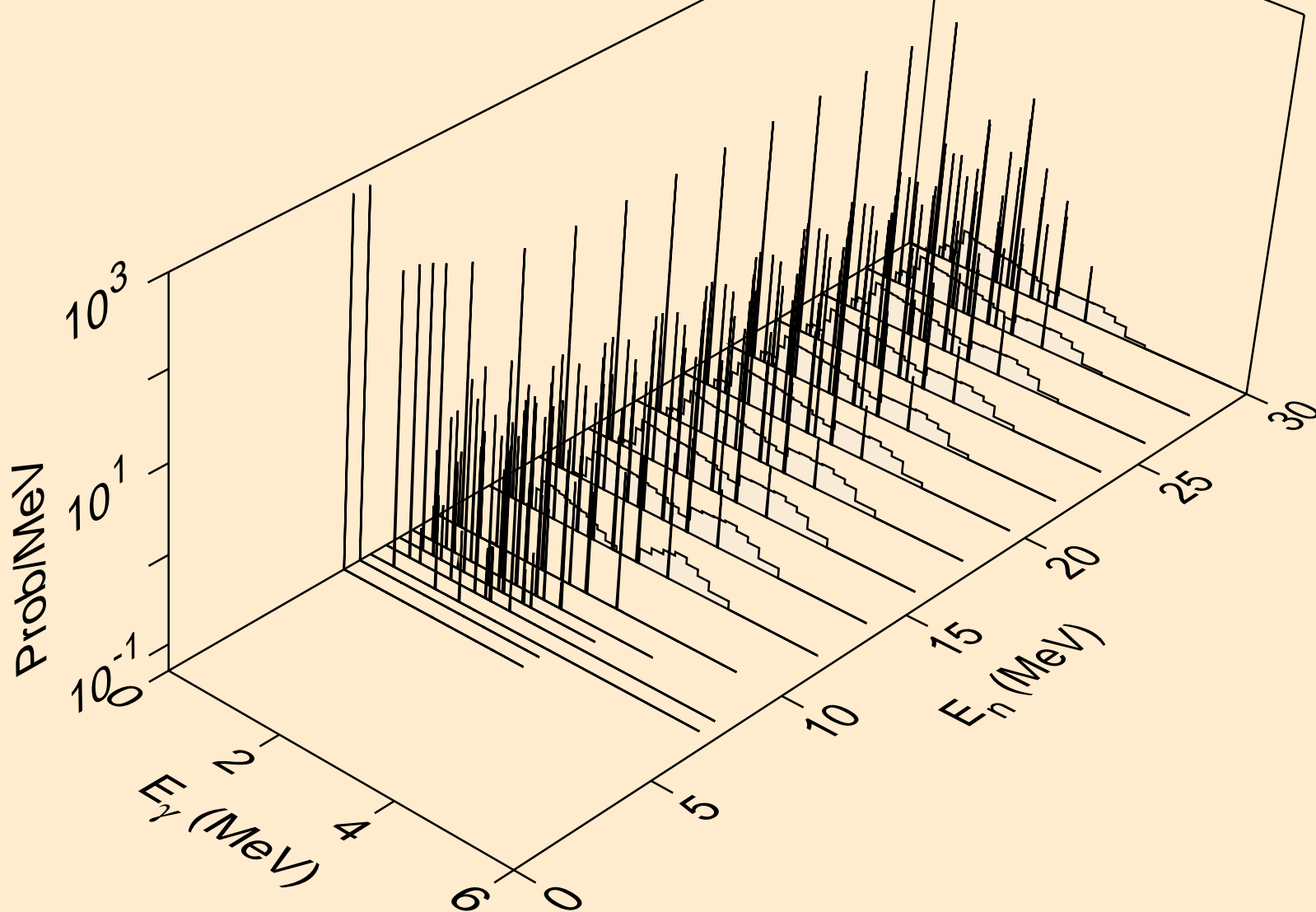
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Photon emission for (n,n\*c)



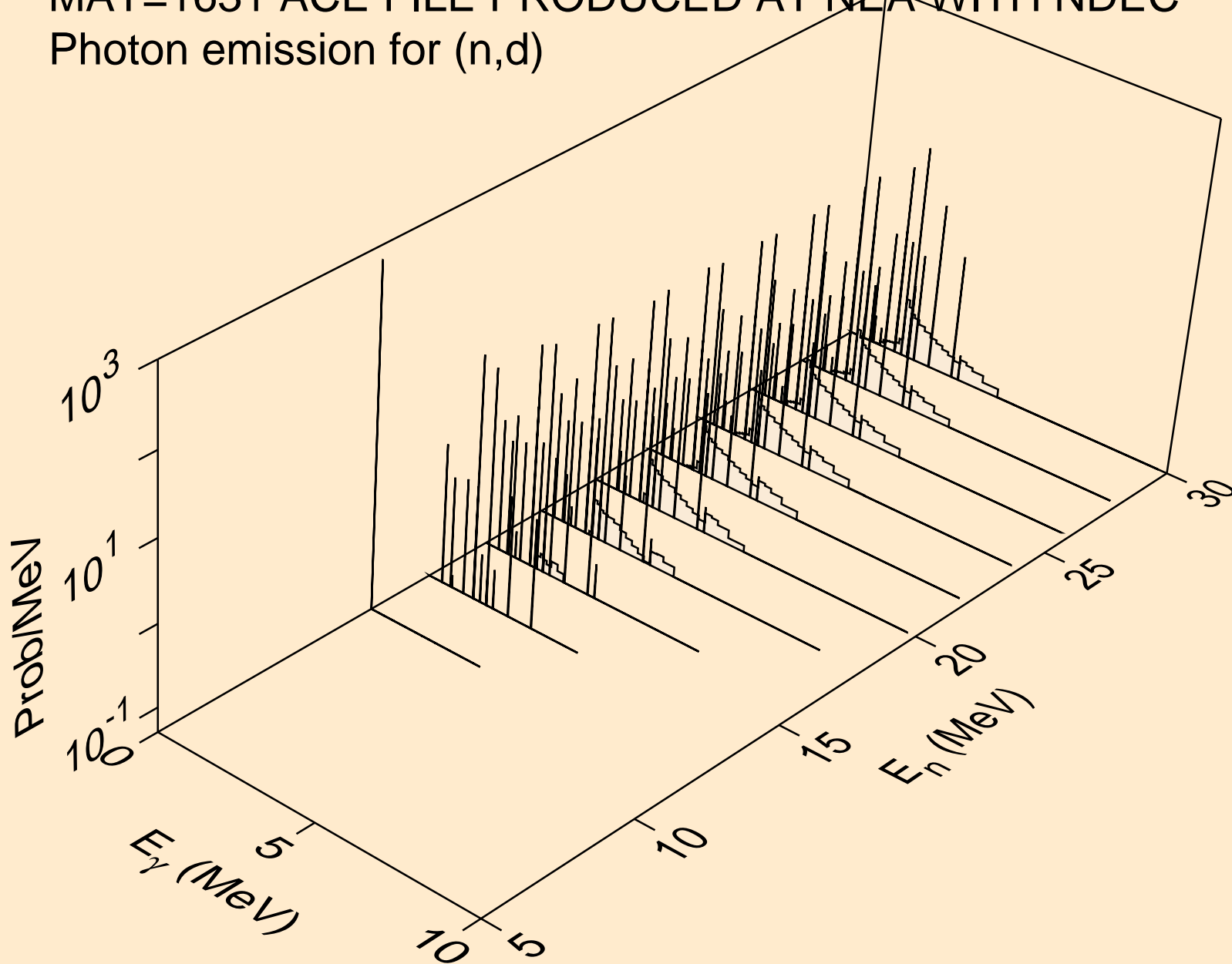
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Photon emission for (n,gma)



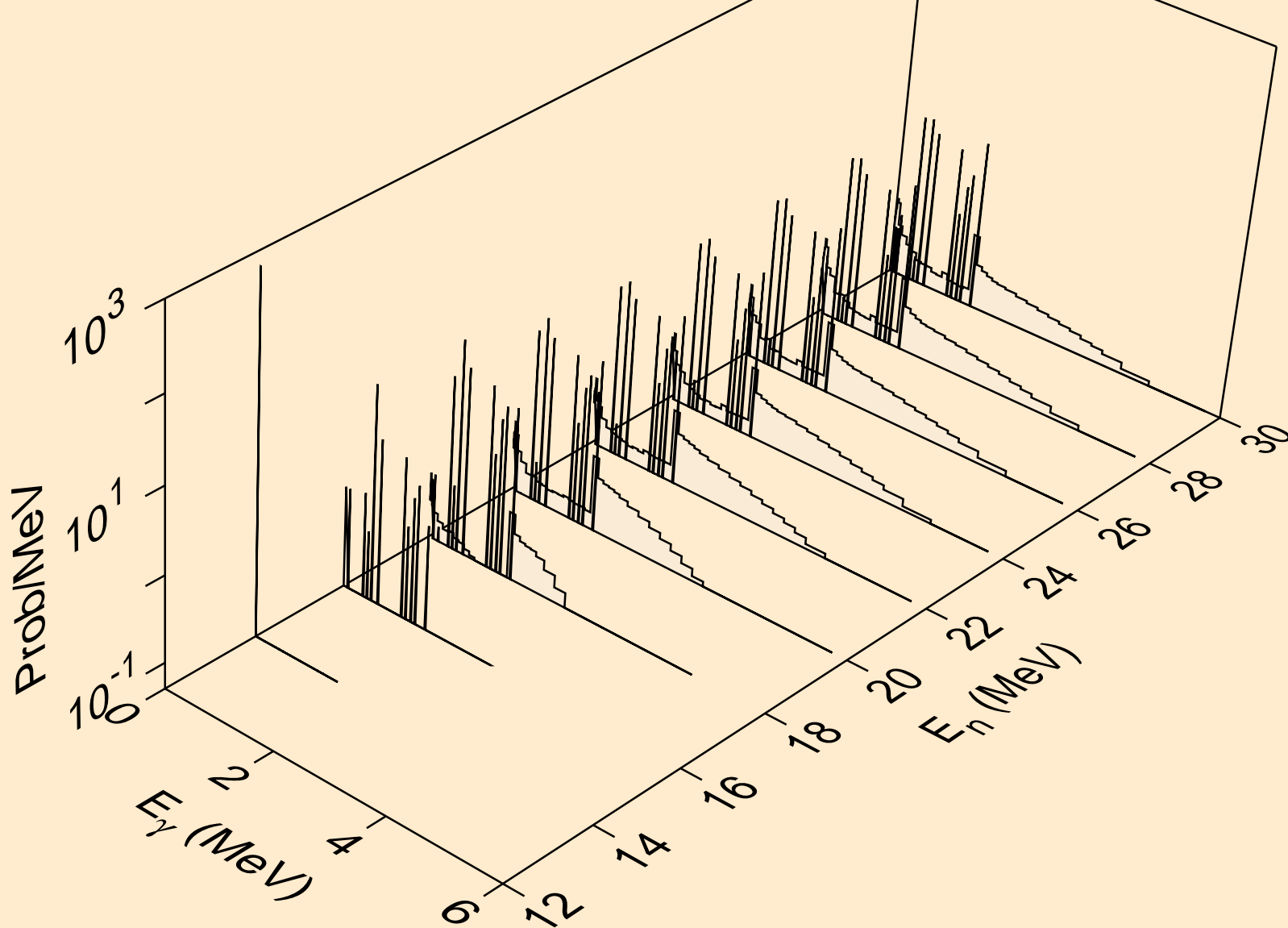
MAT=1631 ACE FILE PRODUCED AT NEA WITH NDEC  
Photon emission for (n,p)



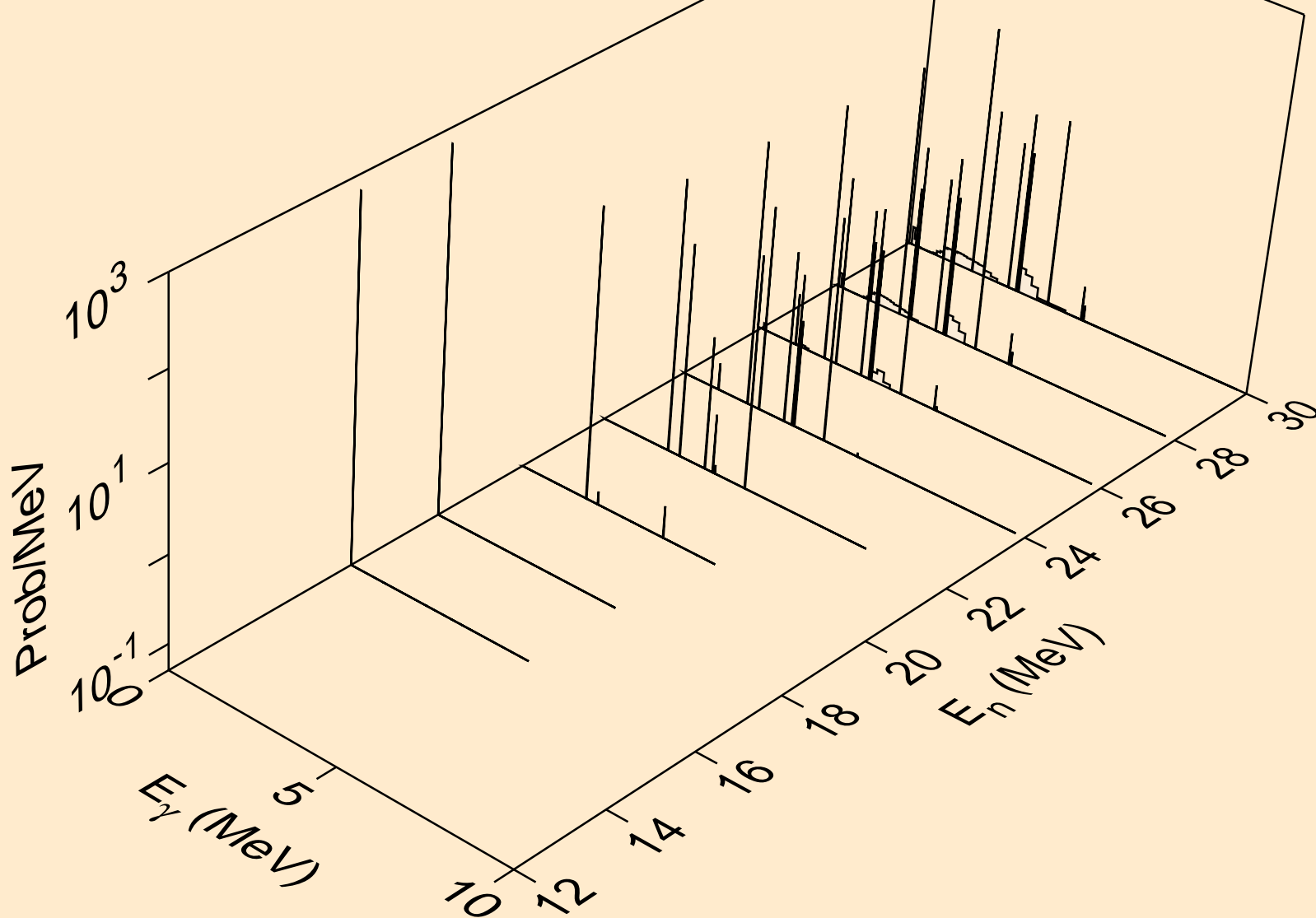
MAT=1631 ACE FILE PRODUCED AT NEA WITH NDEC  
Photon emission for (n,d)



MAT=1631 ACE FILE PRODUCED AT NEA WITH NDEC  
Photon emission for (n,t)

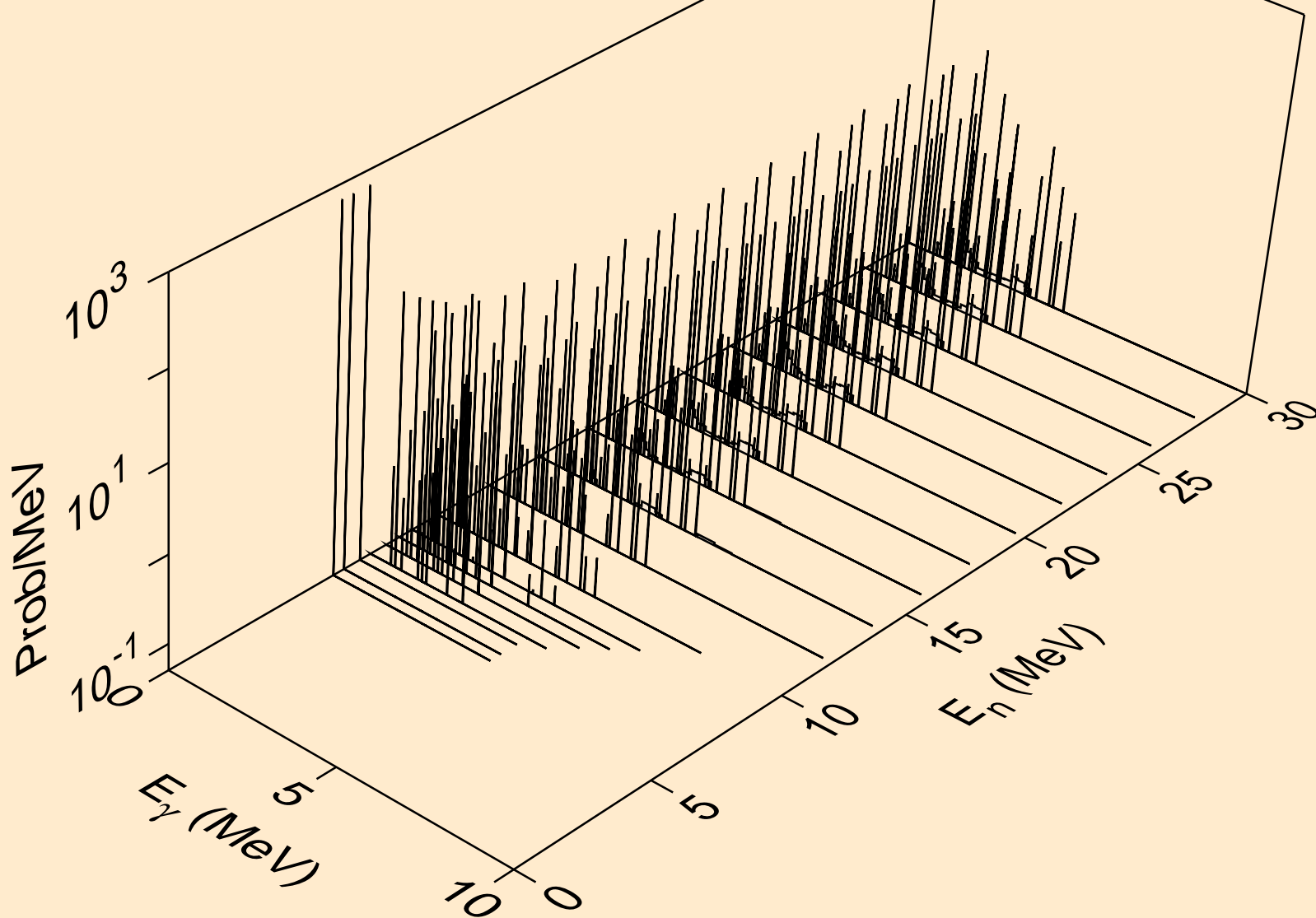


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Photon emission for (n,he3)

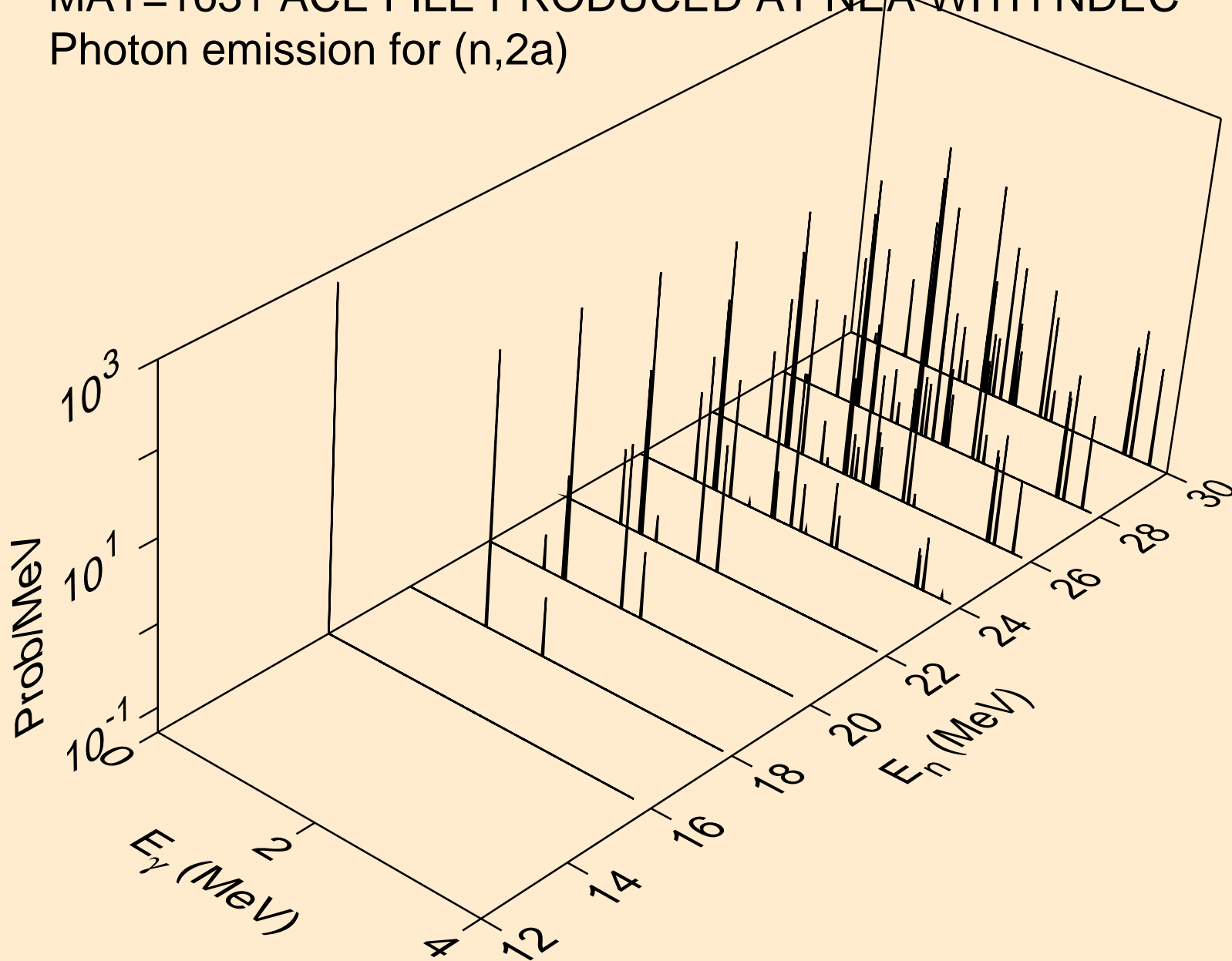




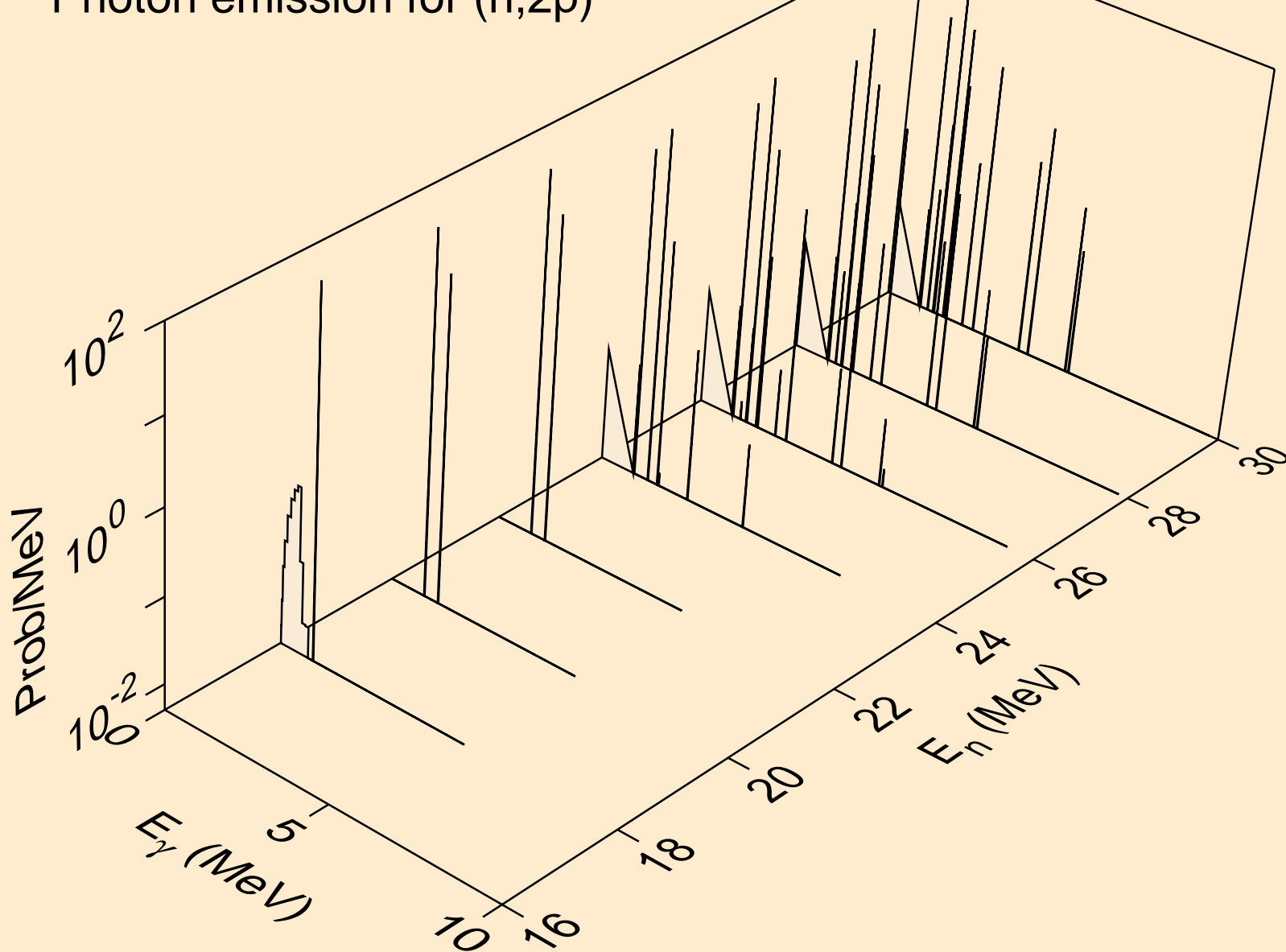
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Photon emission for (n,a)



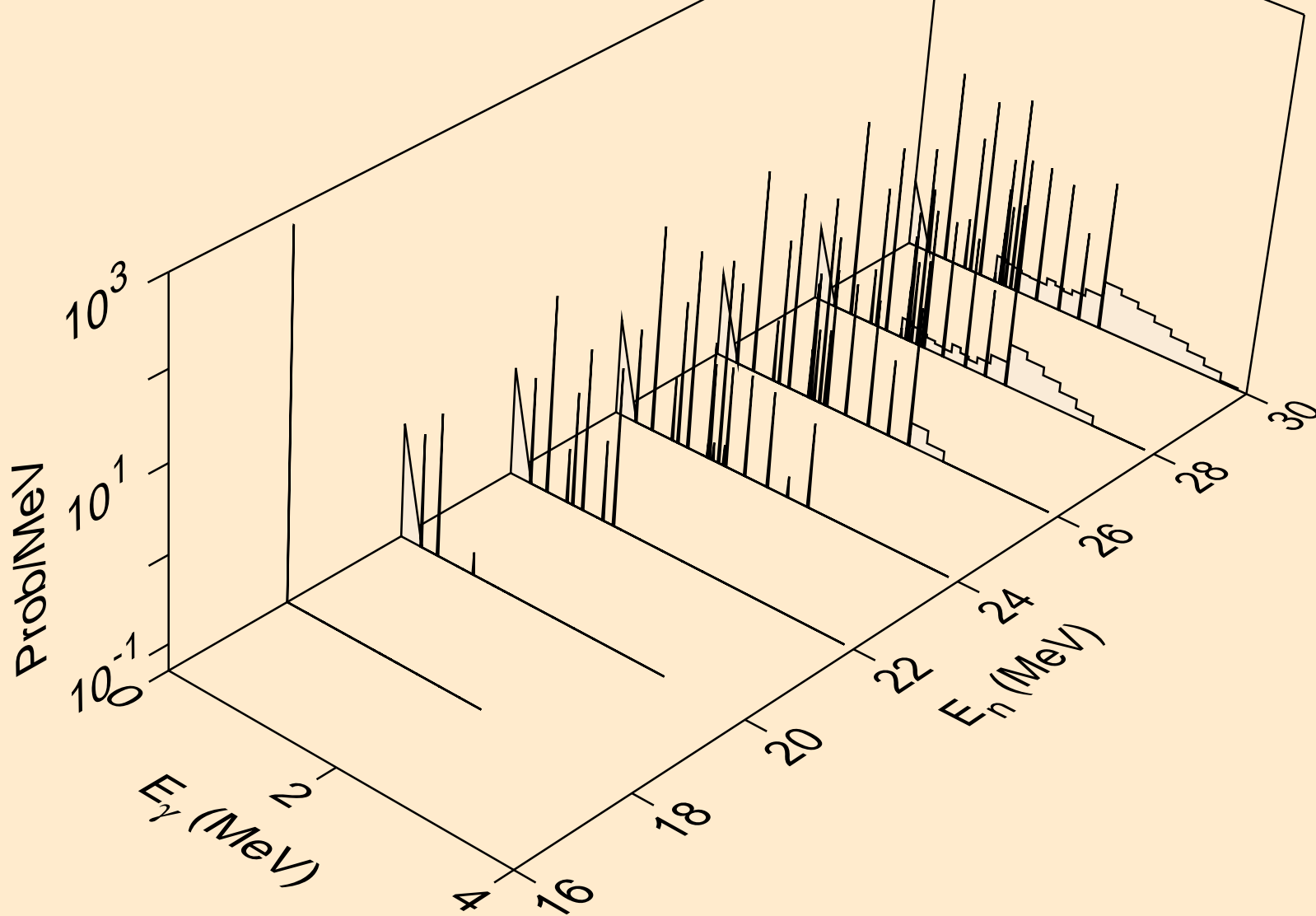
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Photon emission for (n,2a)



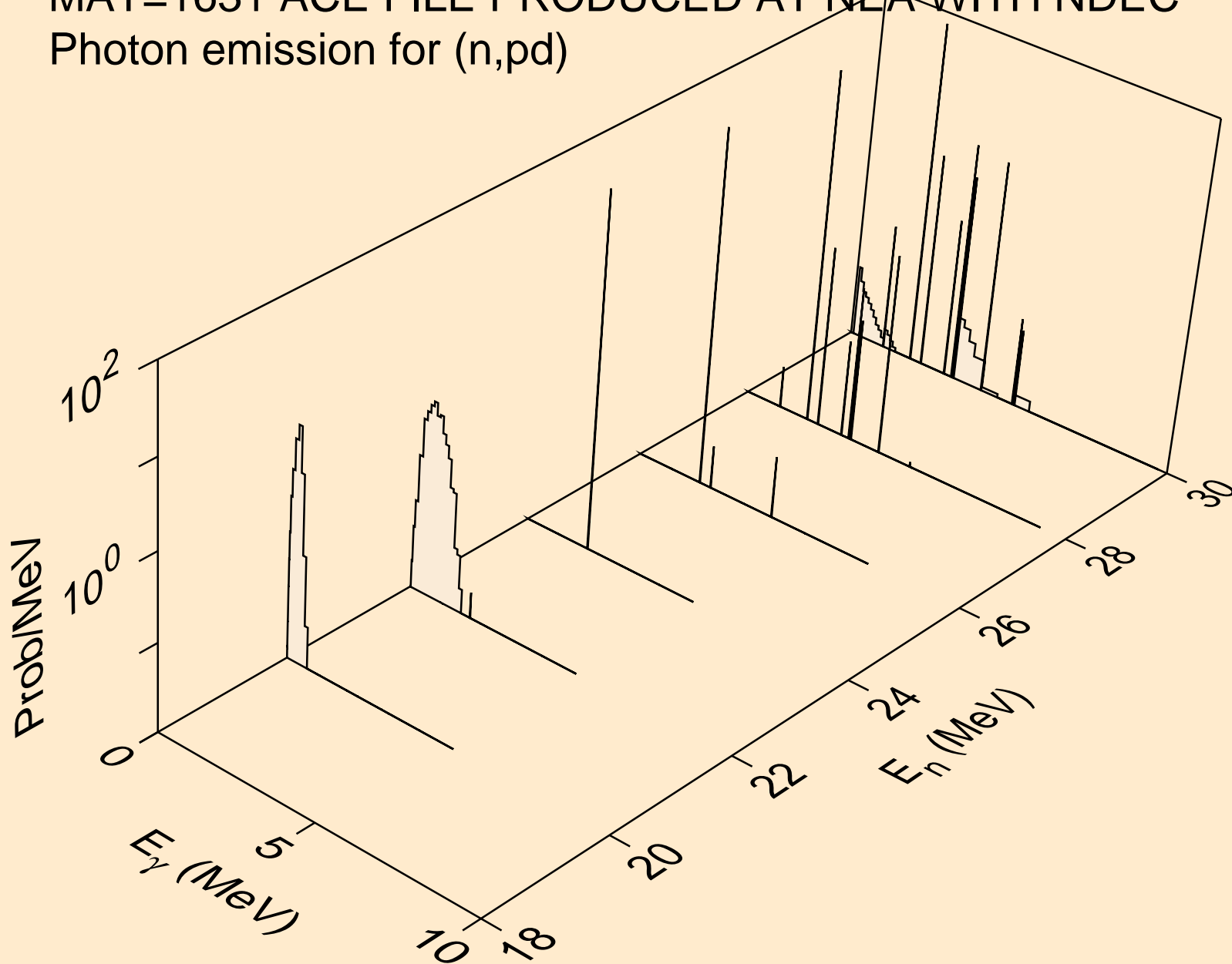
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Photon emission for (n,2p)



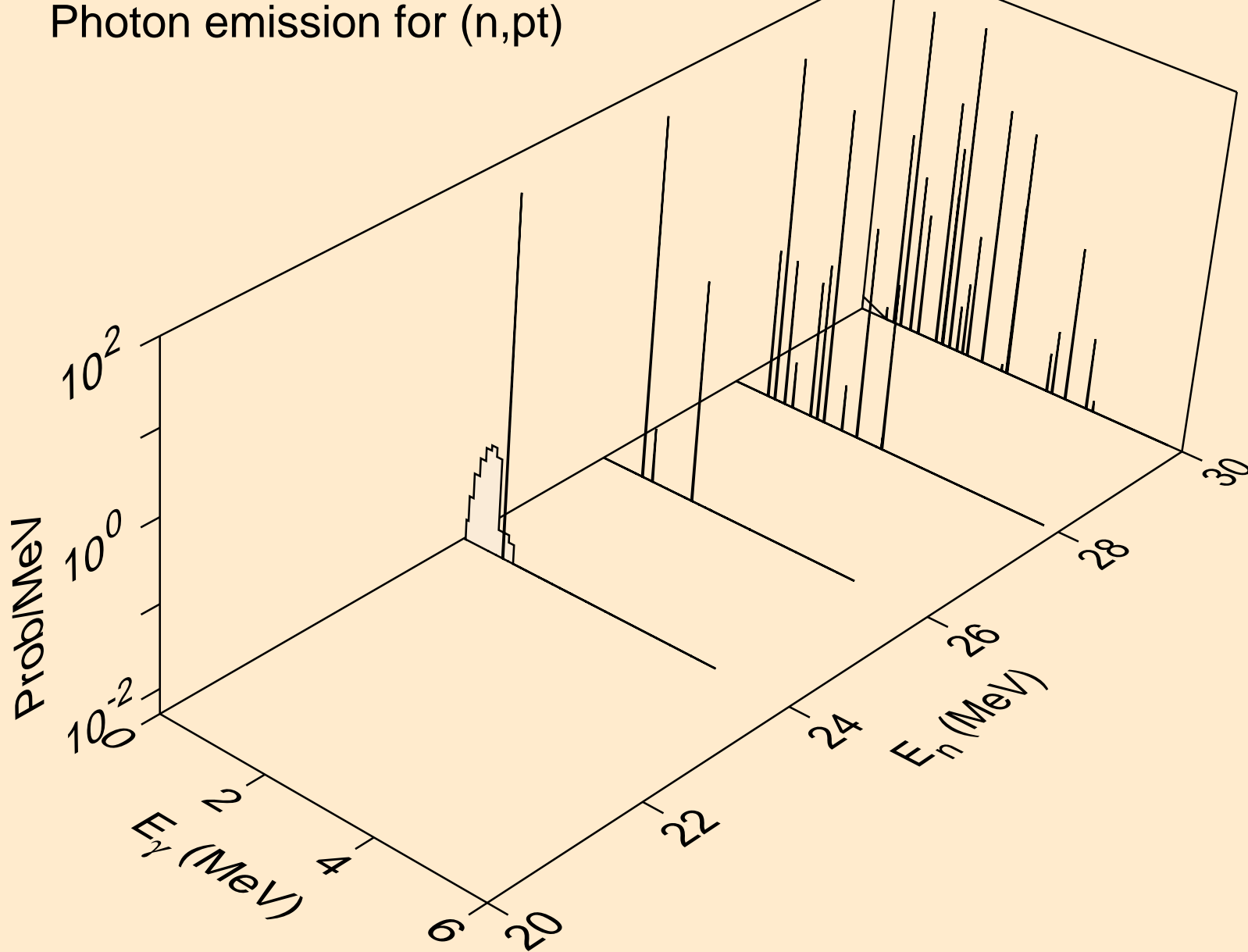
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Photon emission for (n,pa)



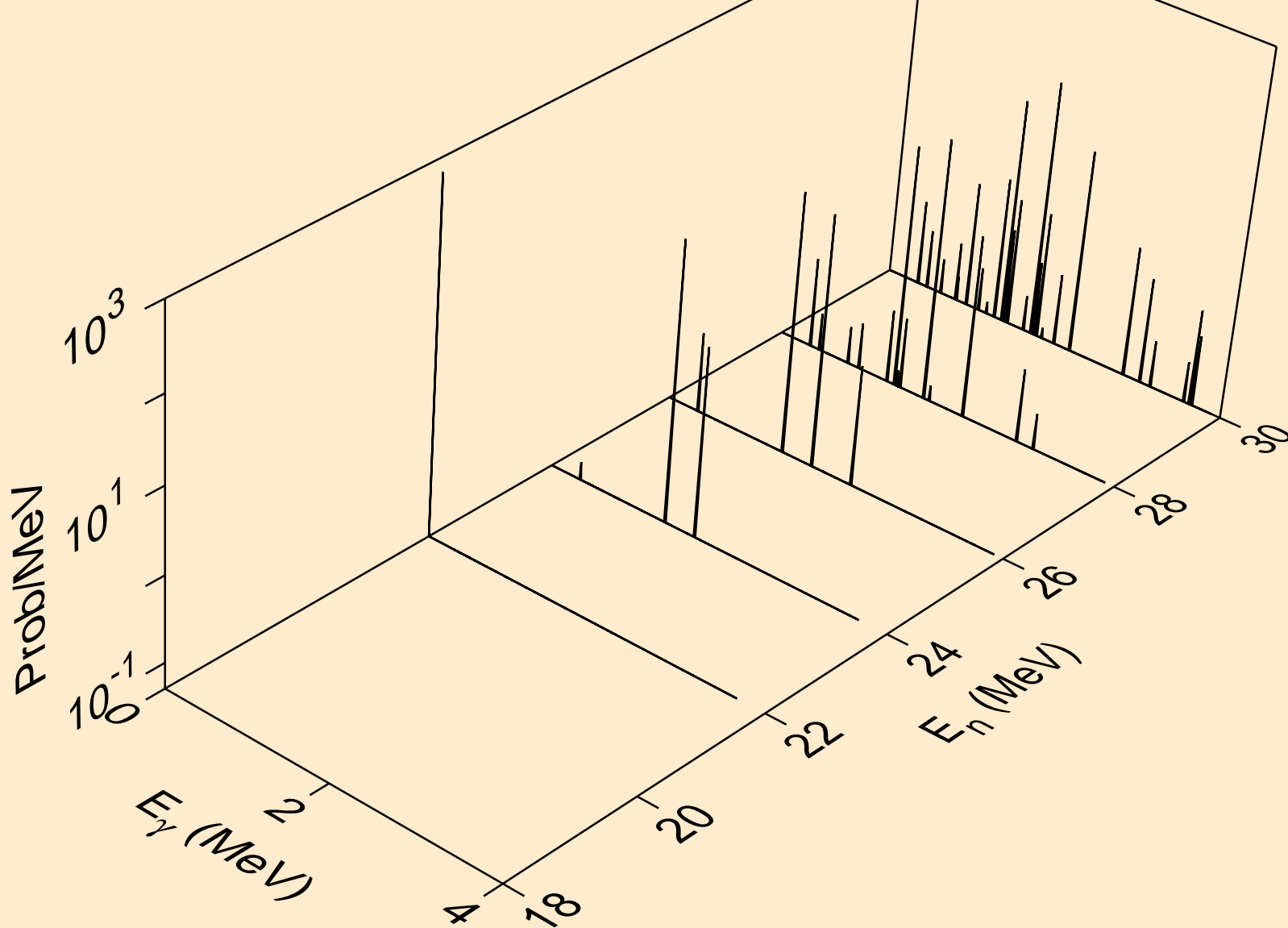
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Photon emission for (n,pd)



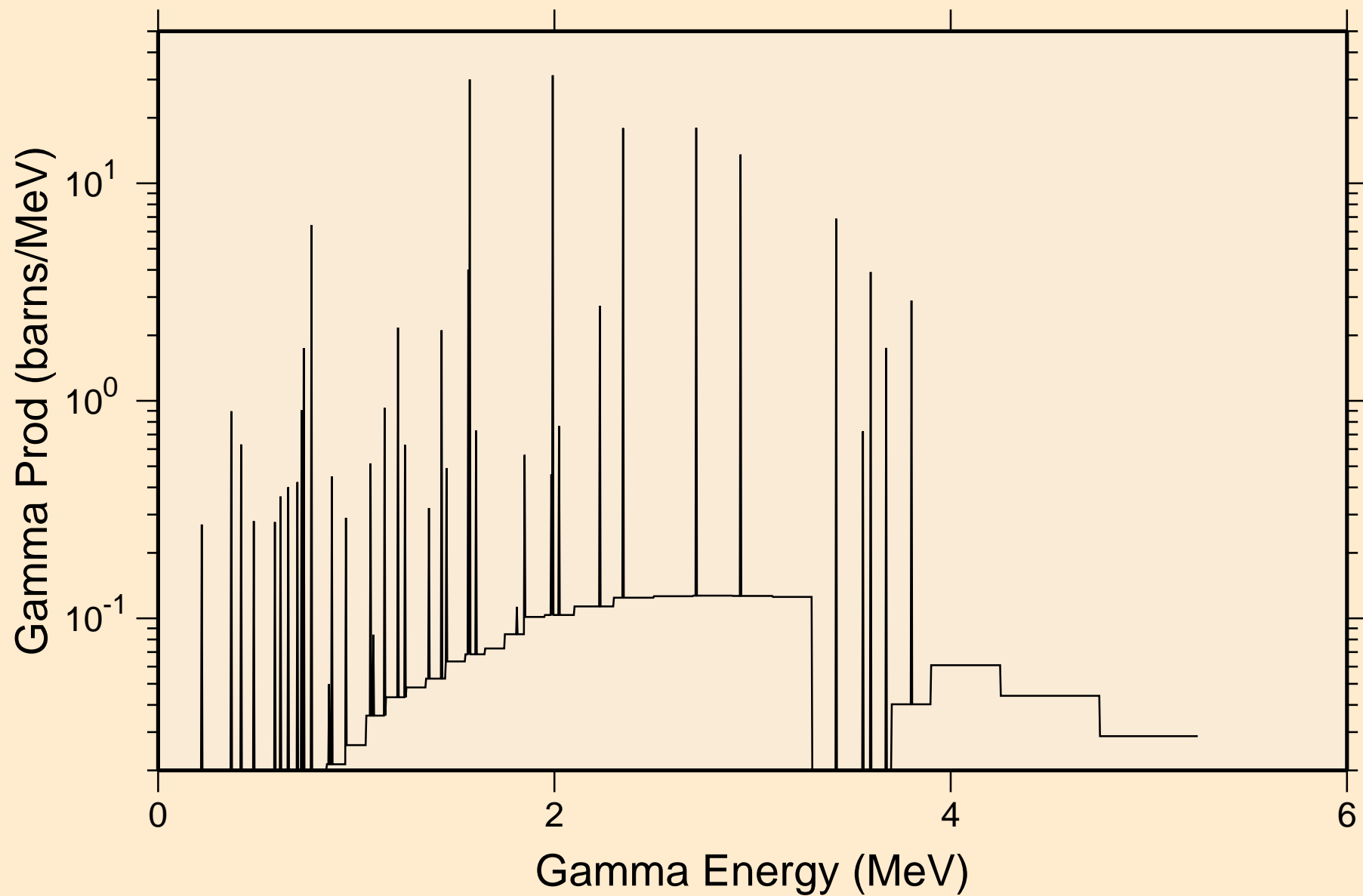
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Photon emission for (n,pt)



MAT=1631 ACE FILE PRODUCED AT NEA WITH NDEC  
Photon emission for (n,da)

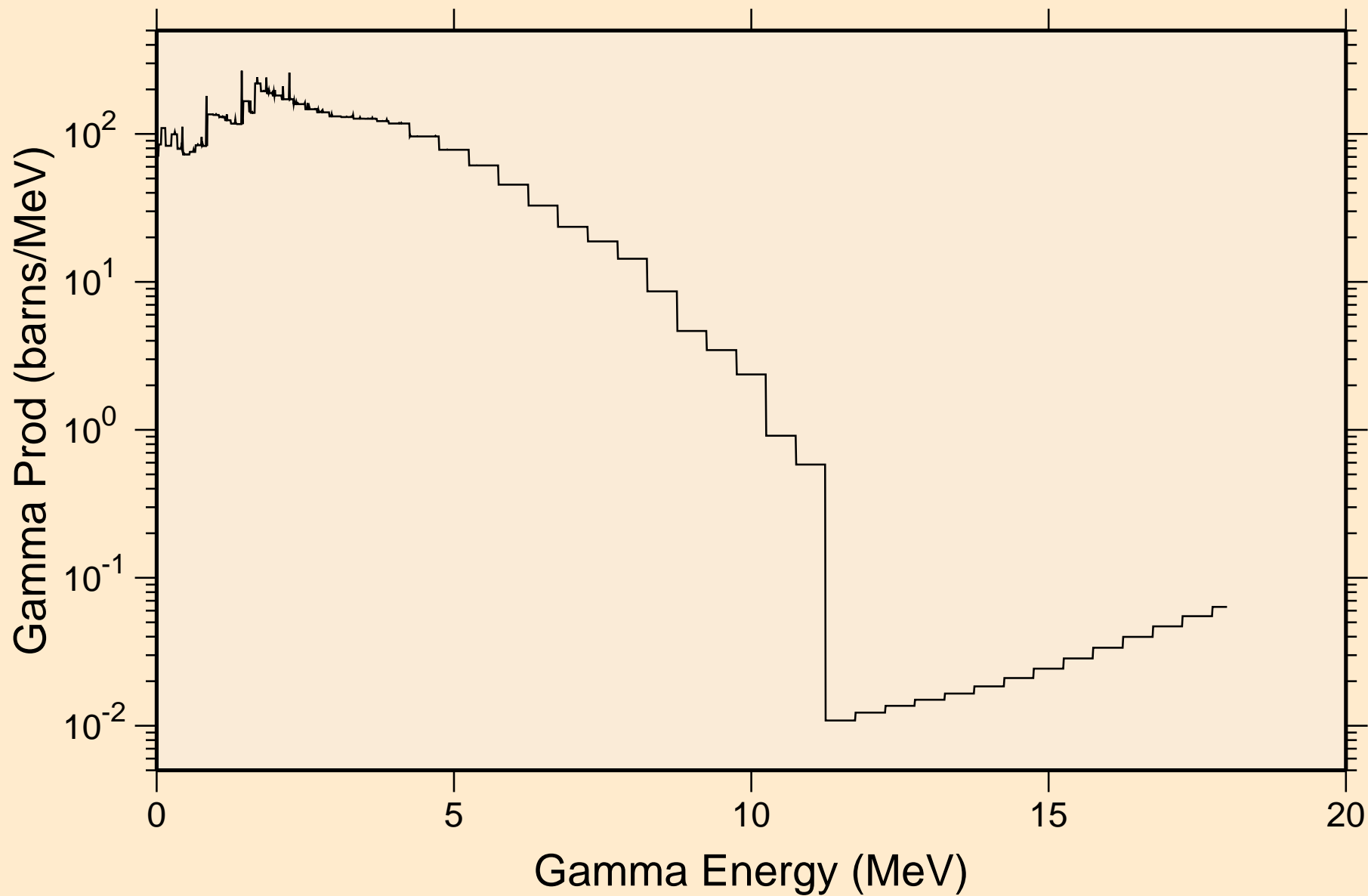


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thermal capture photon spectrum

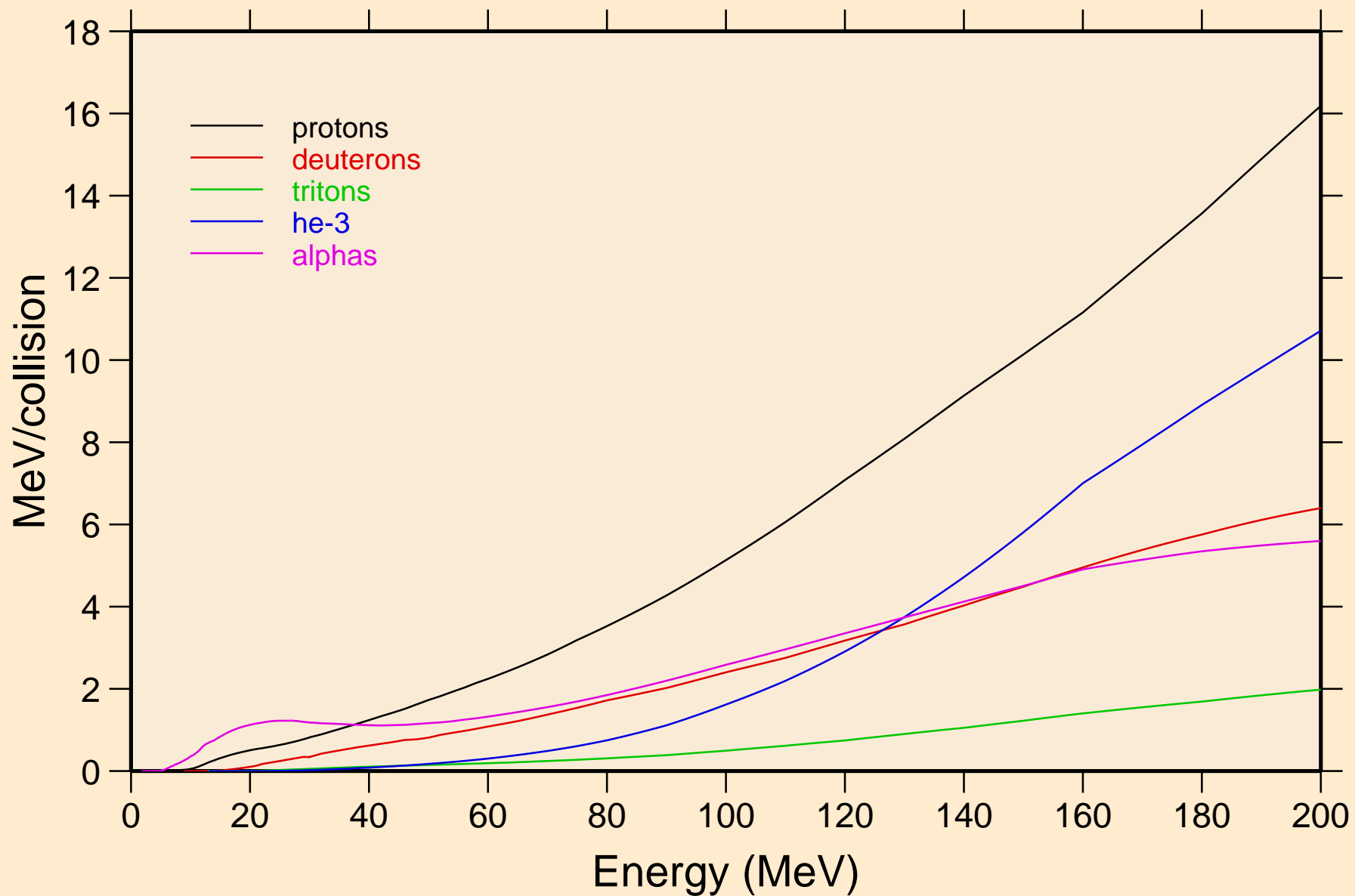




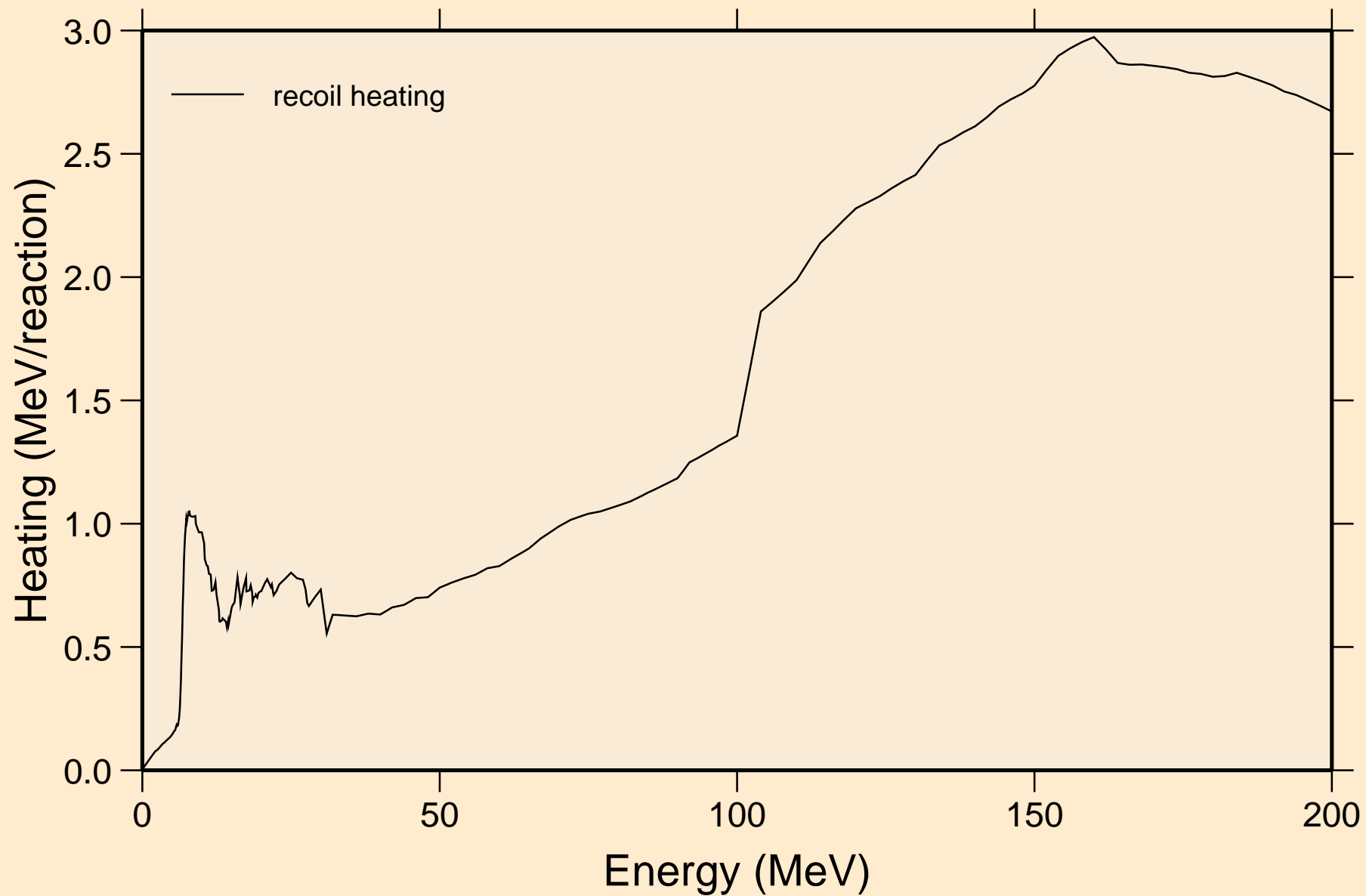
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14 MeV photon spectrum



MAT=1631 ACE FILE PRODUCED AT NEA WITH NDEC  
Particle heating contributions

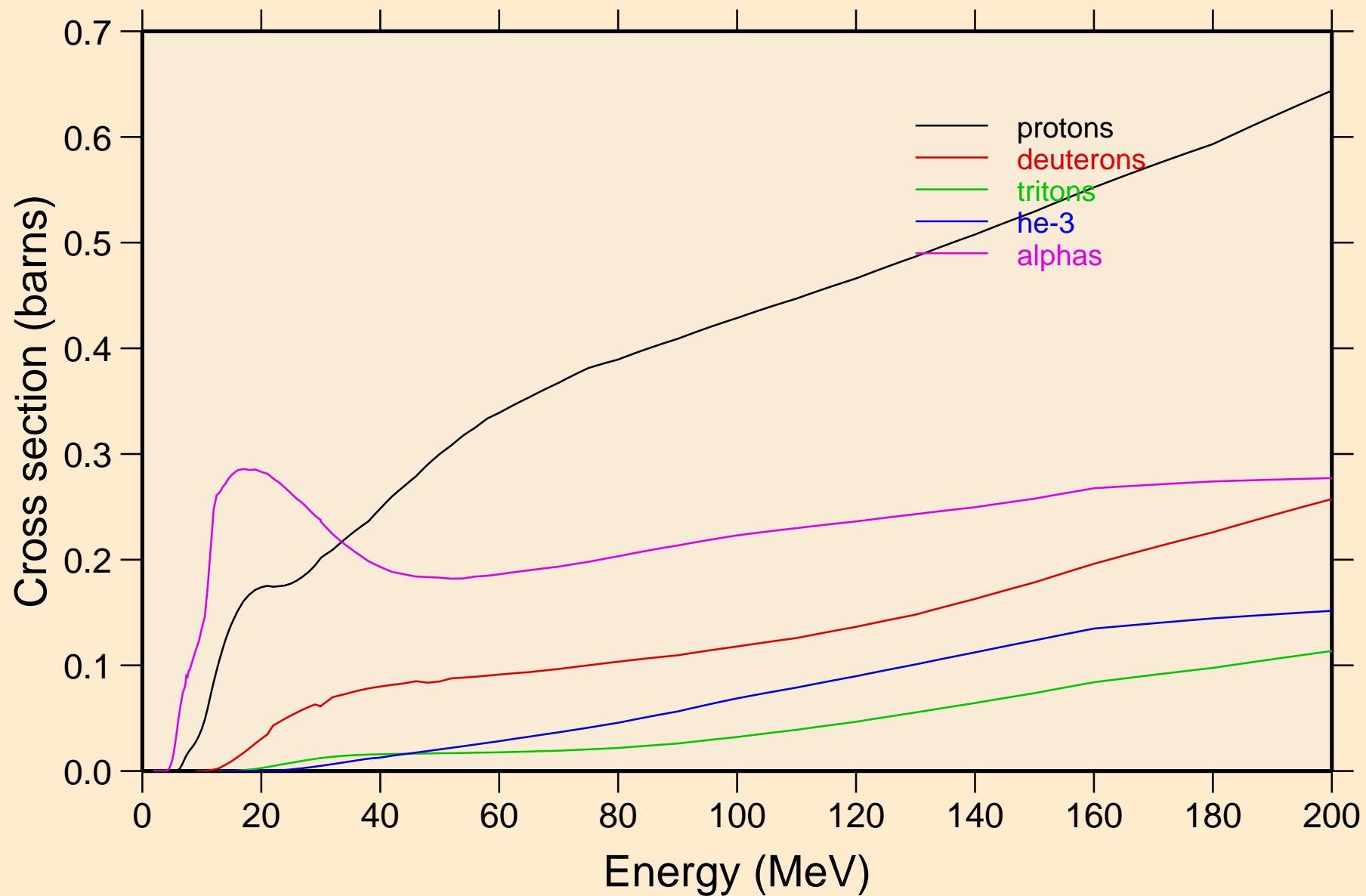


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Recoil Heating

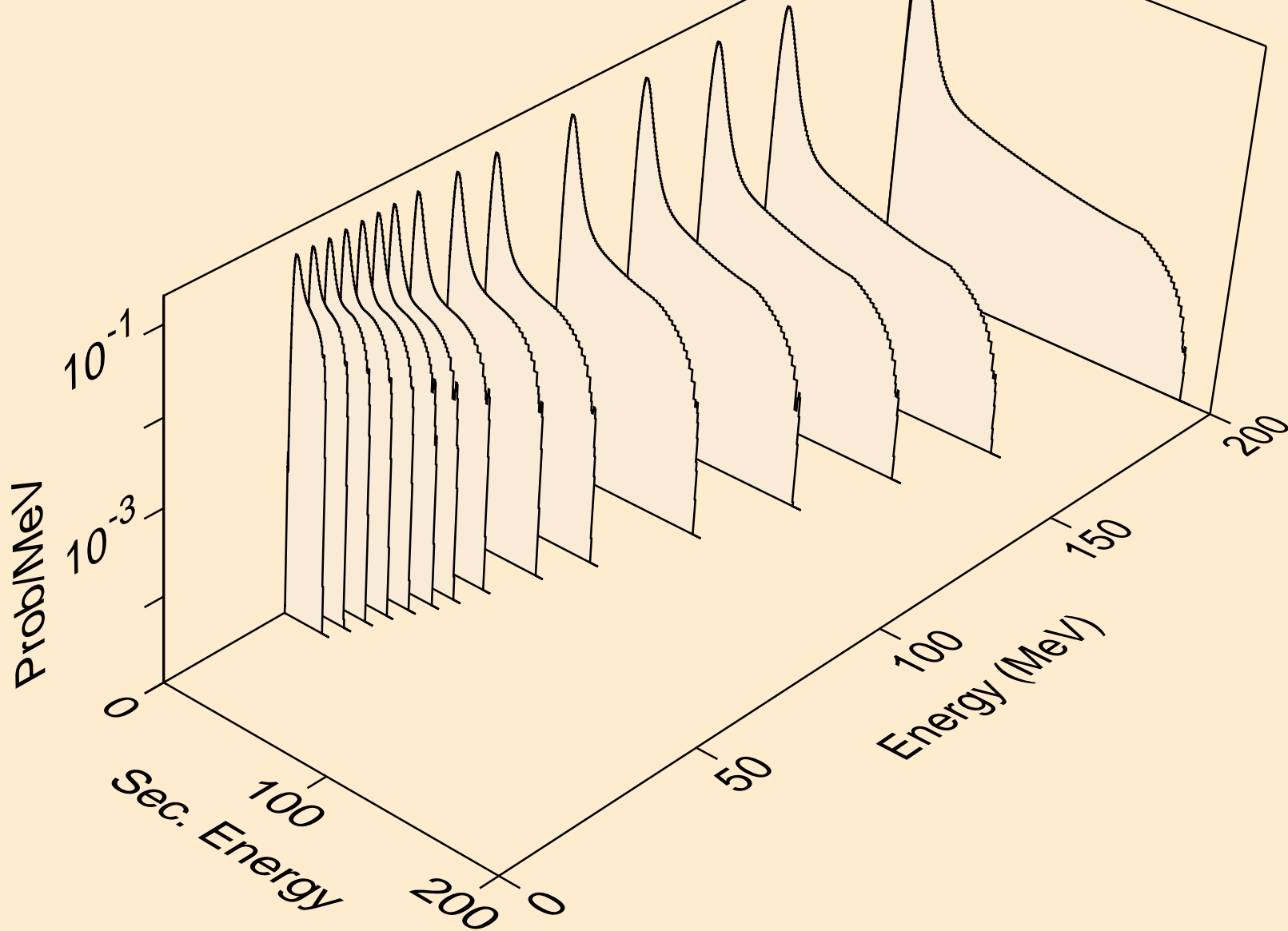


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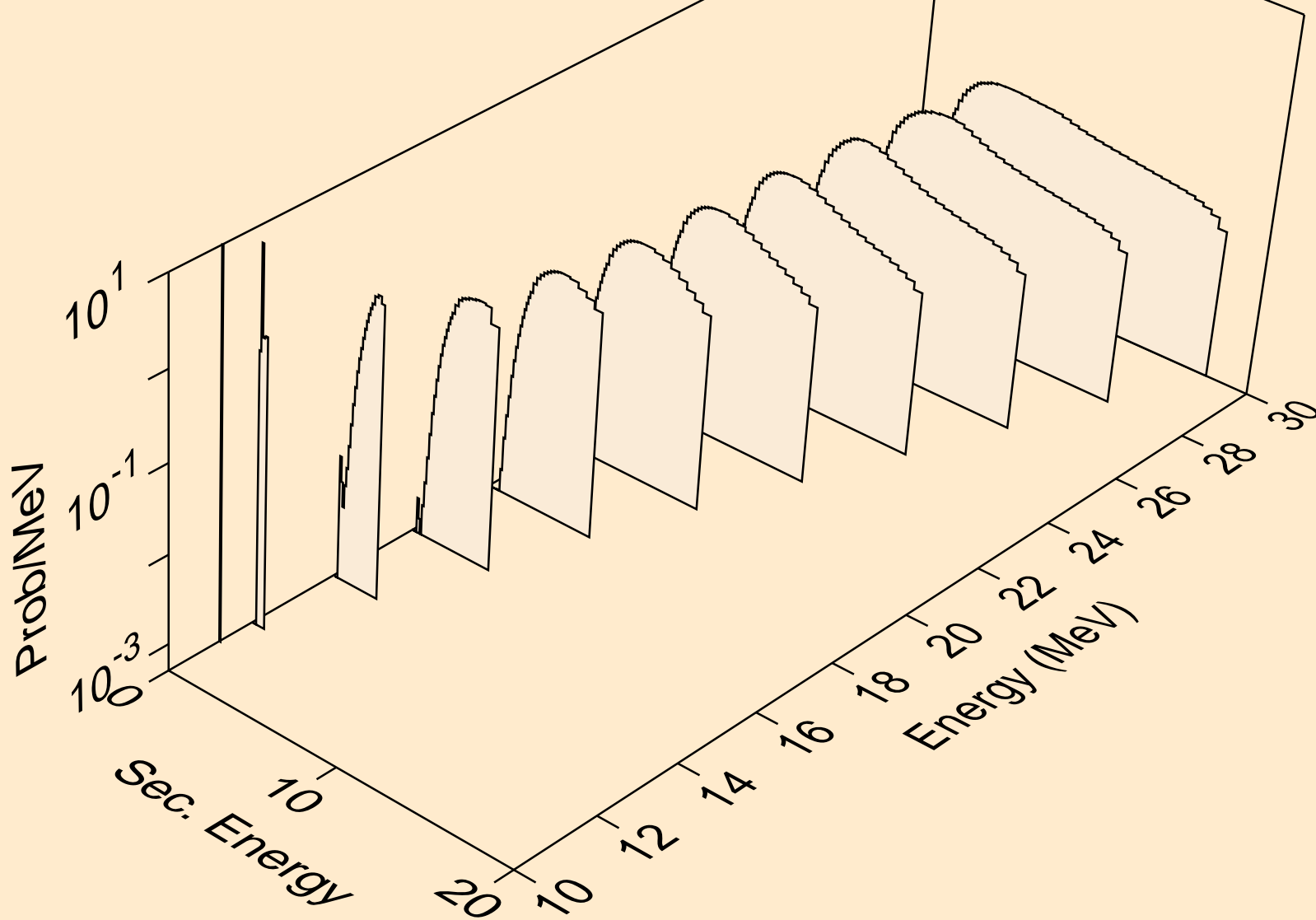
### Particle production cross sections



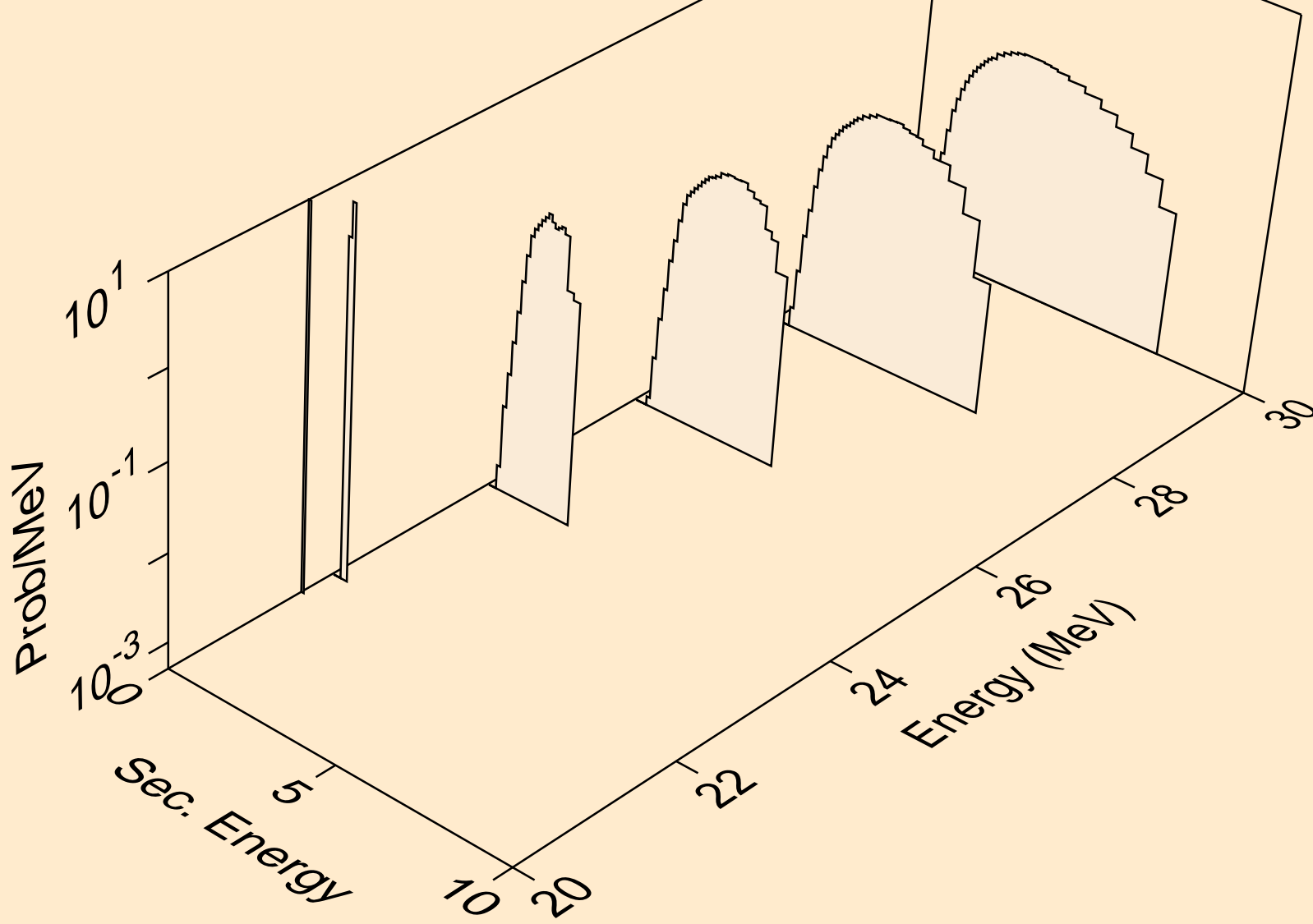
MAT=1631 ACE FILE PRODUCED AT NEA WITH NDEC  
protons from (n,x)



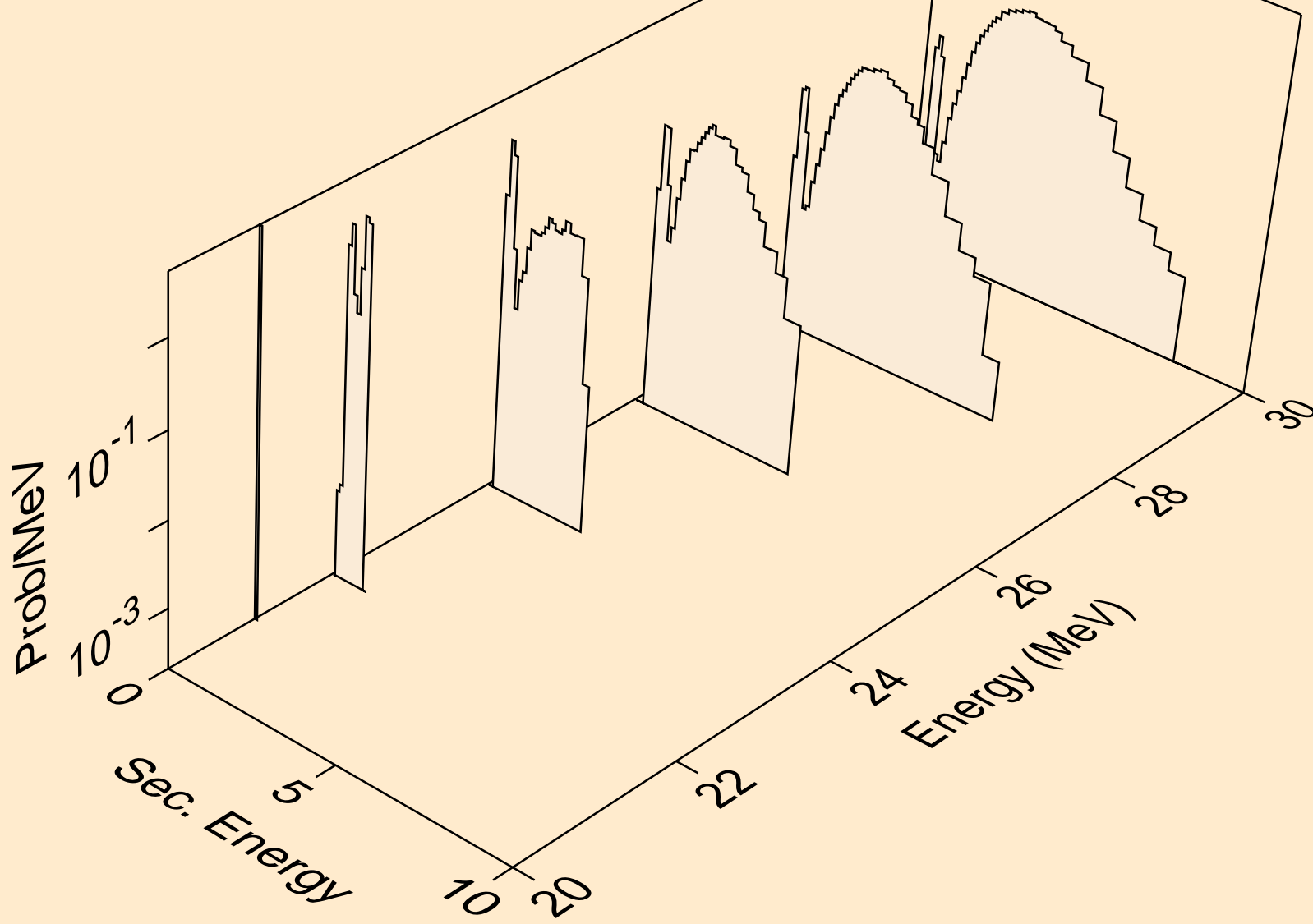
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protons from (n,n\*)p



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protons from (n,2np)

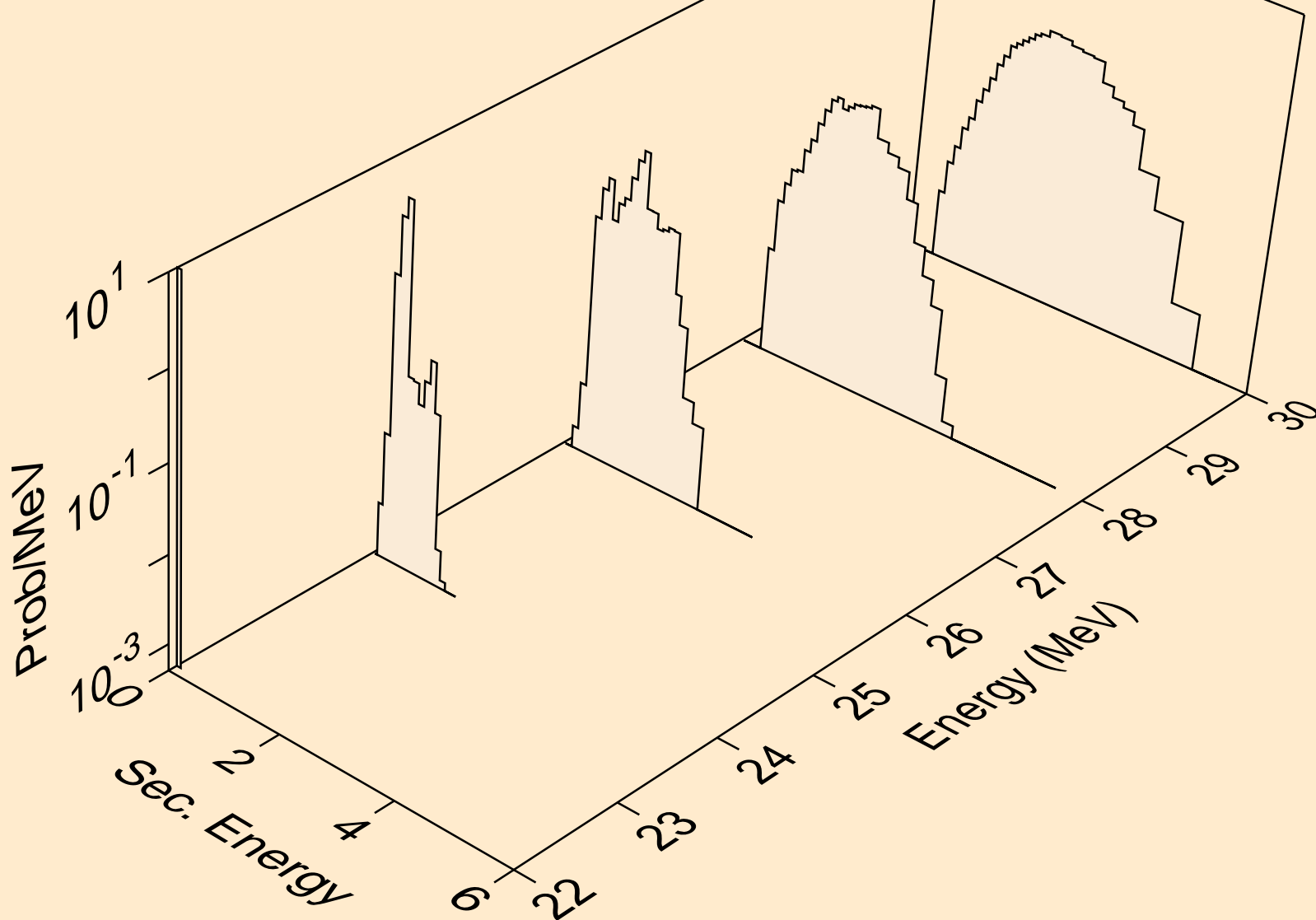


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protons from (n,2np)

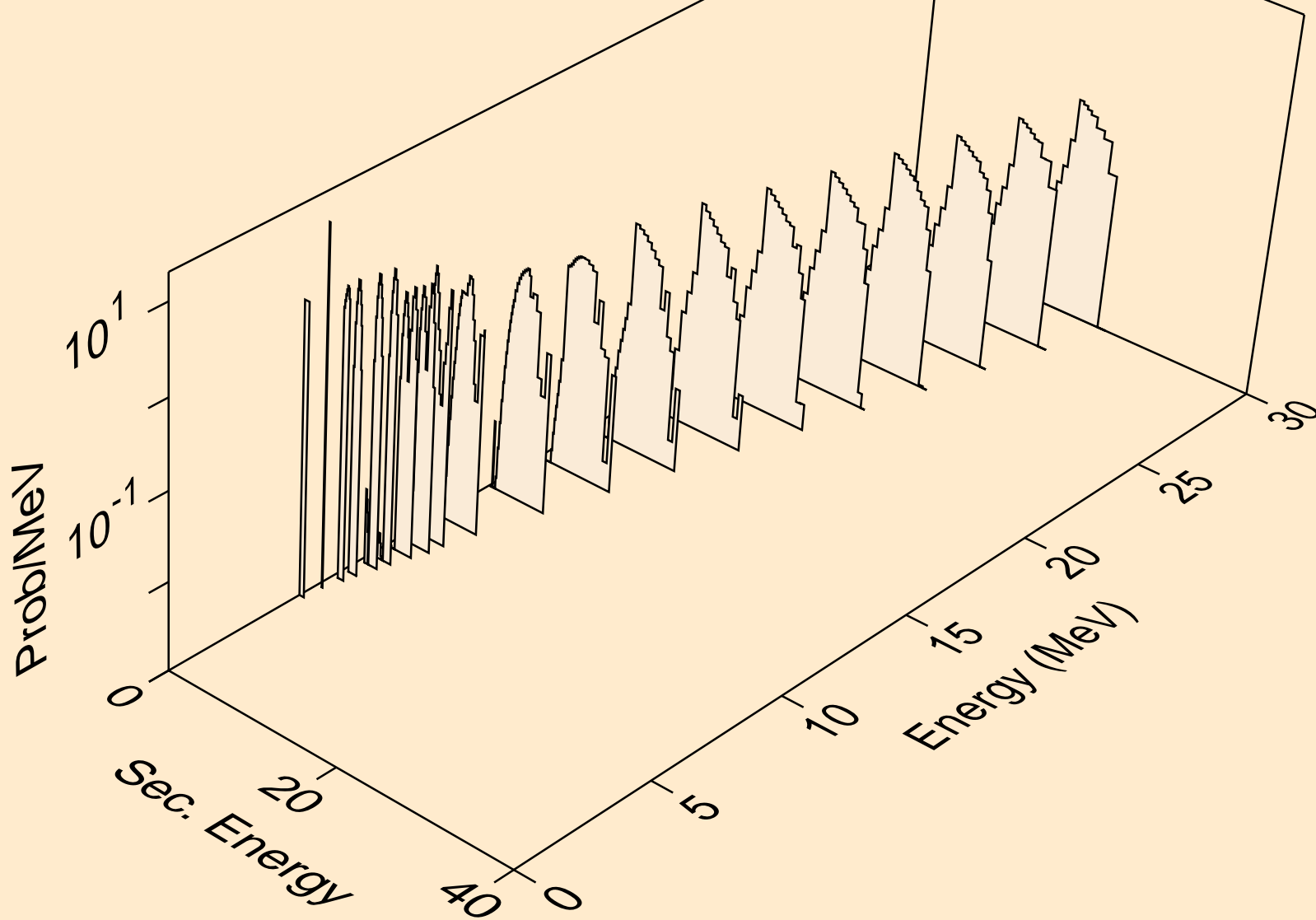




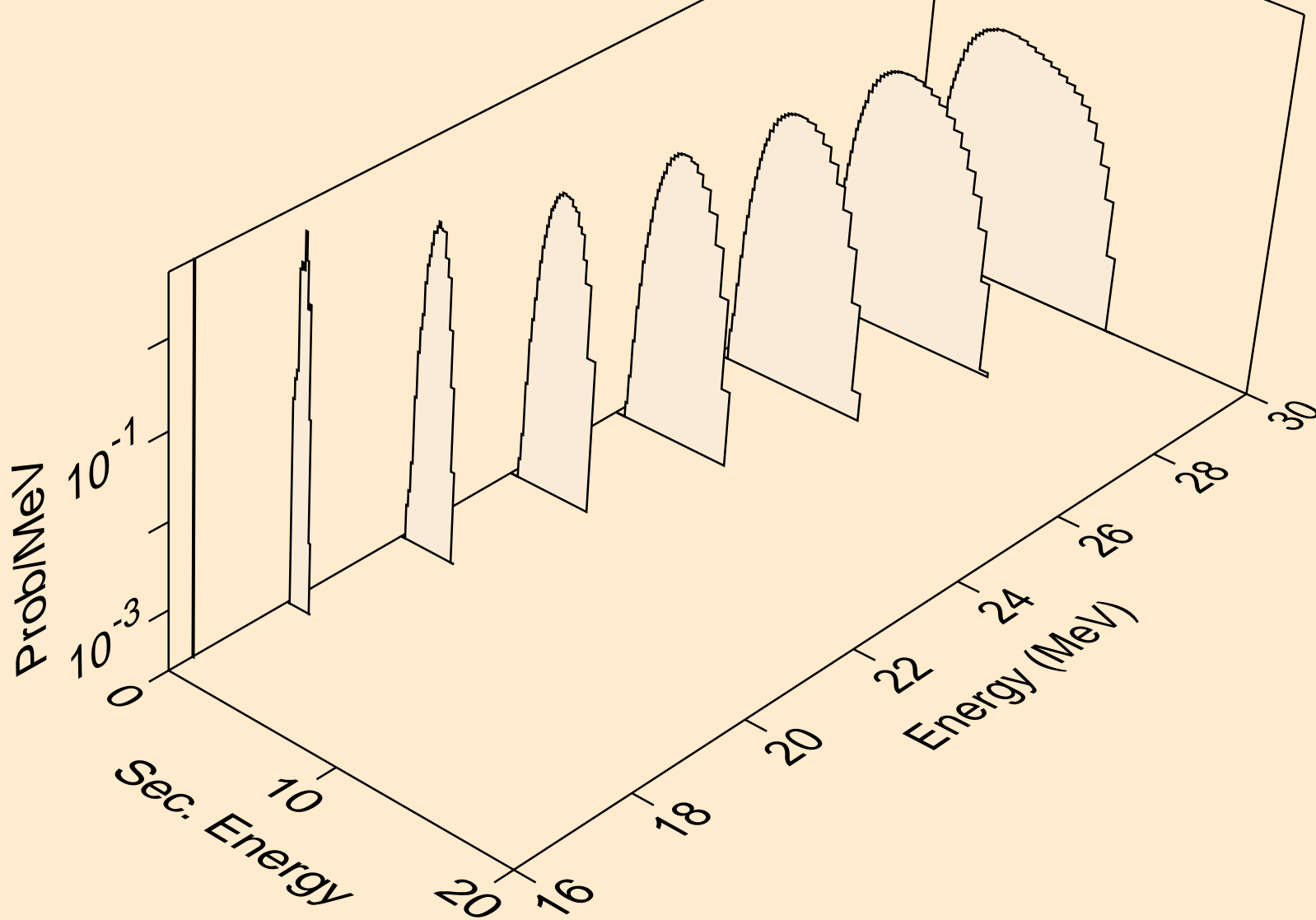
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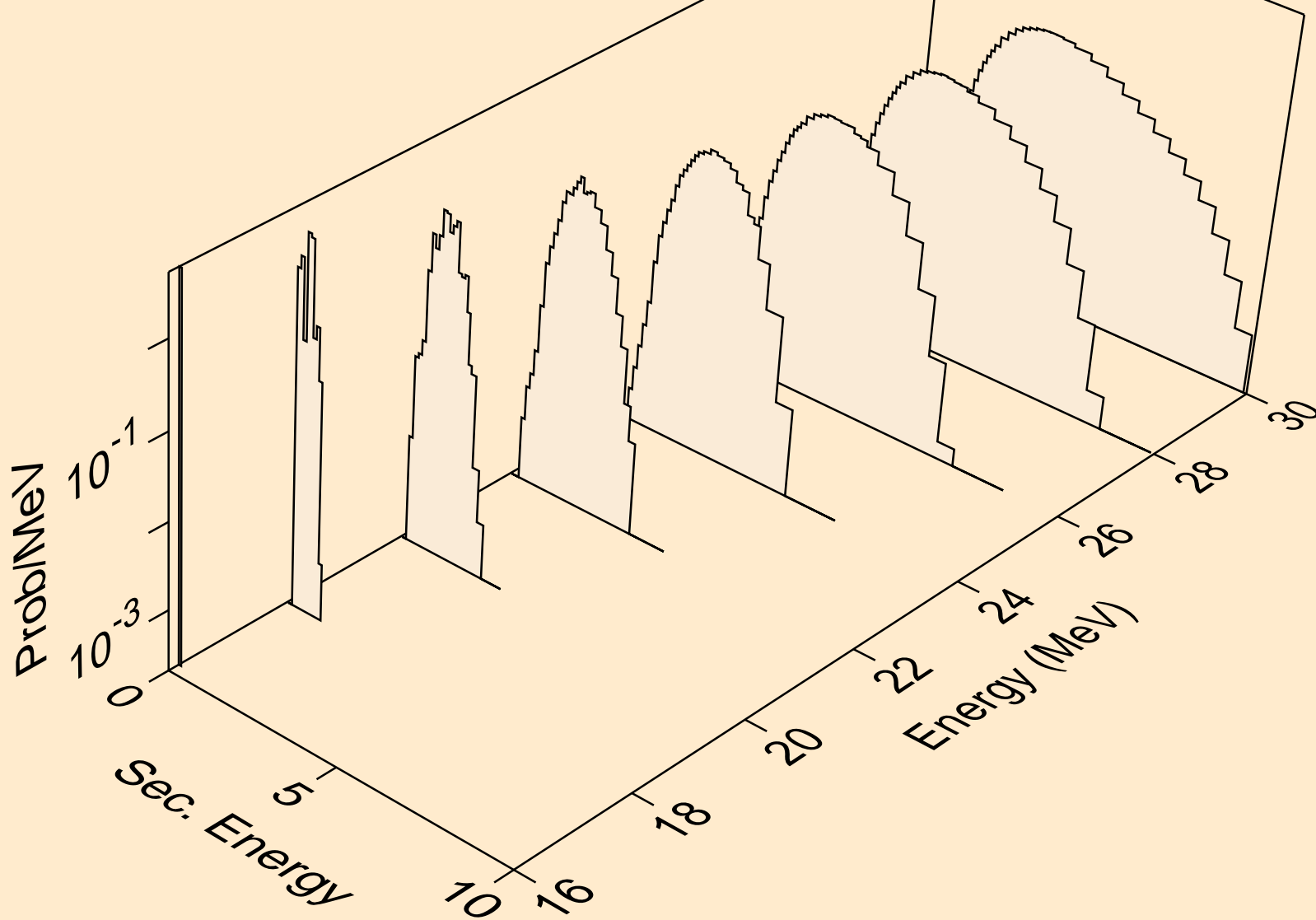
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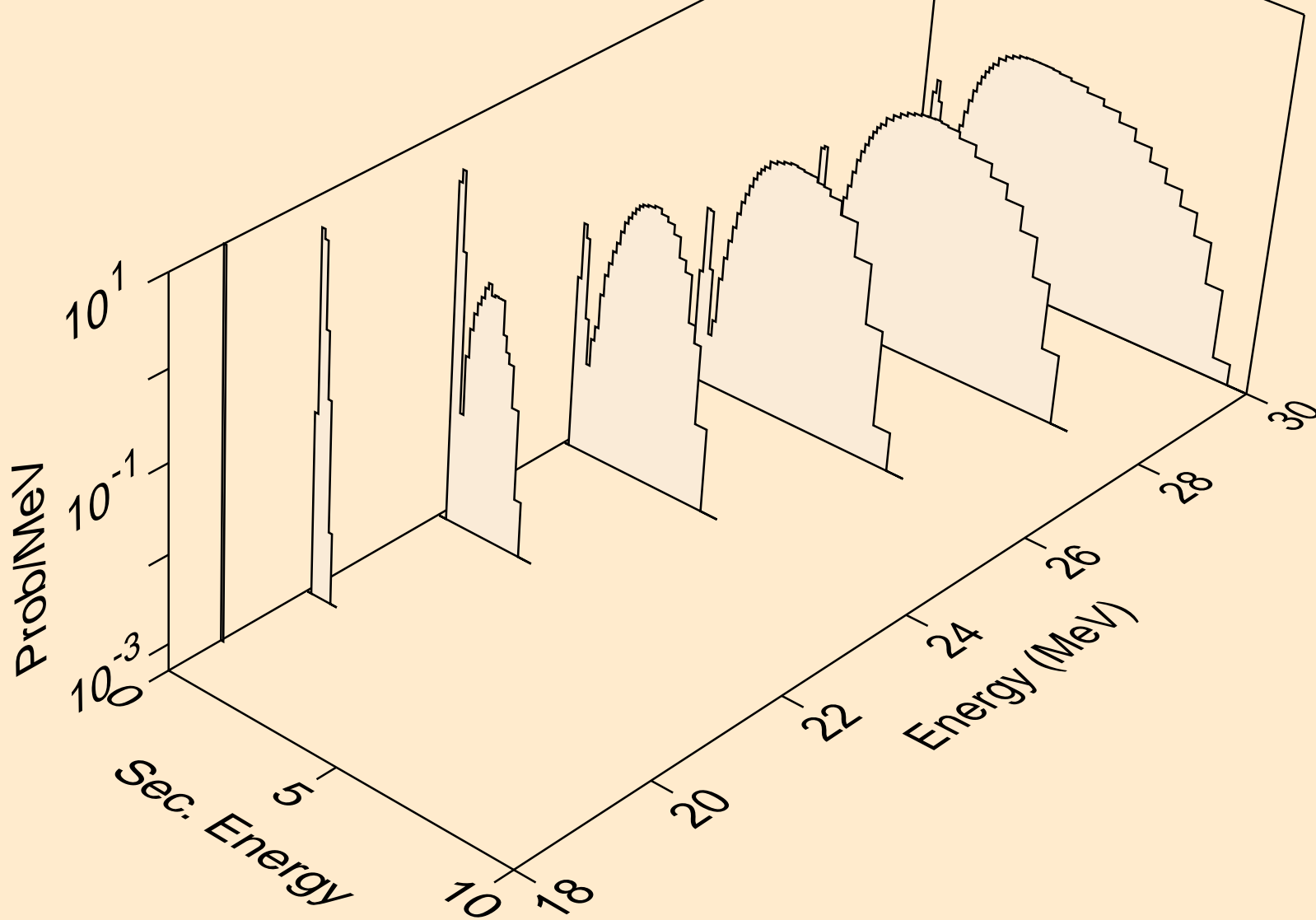
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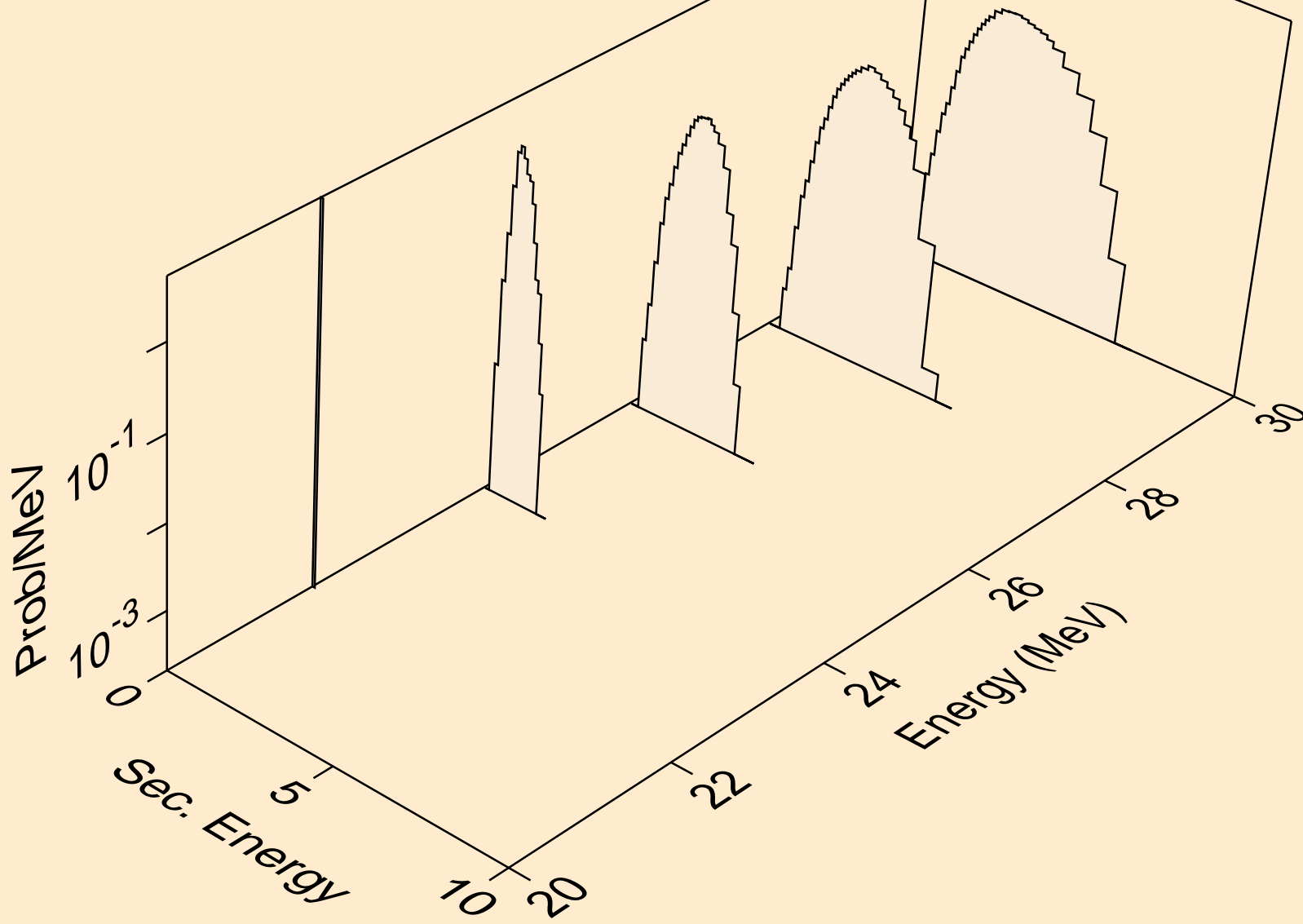
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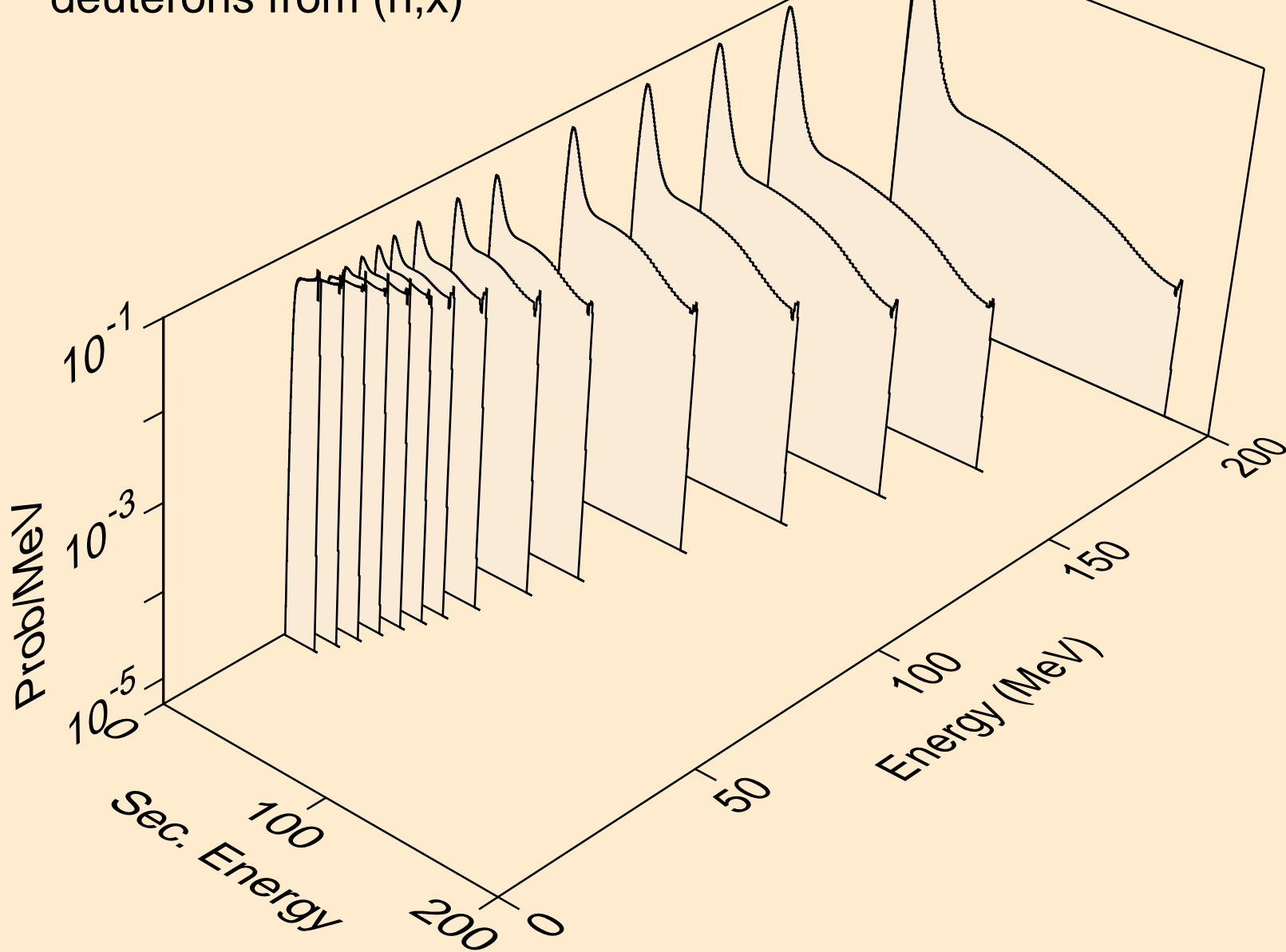
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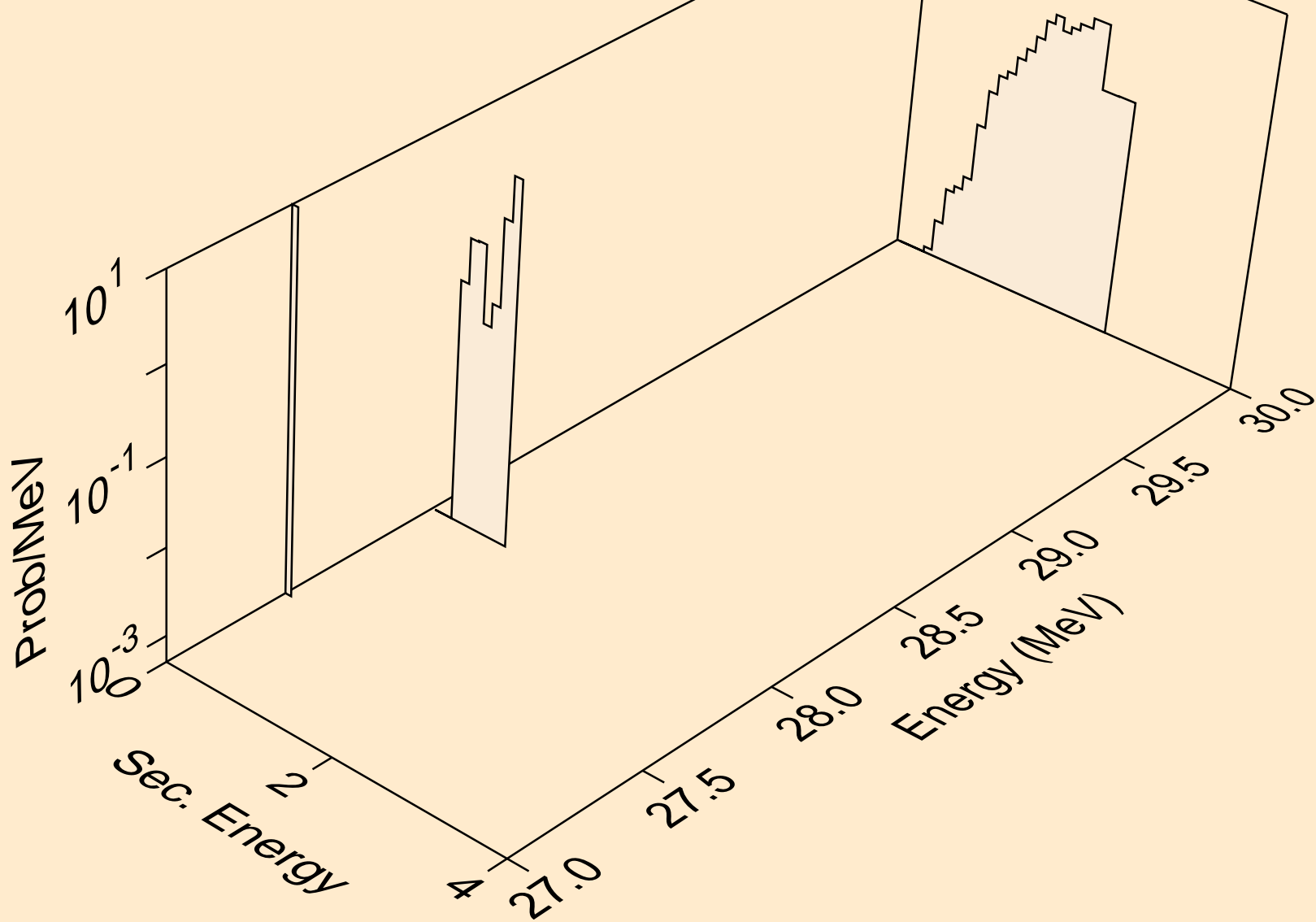
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MAT=1631 ACE FILE PRODUCED AT NEA WITH NDEC  
deuterons from (n,x)

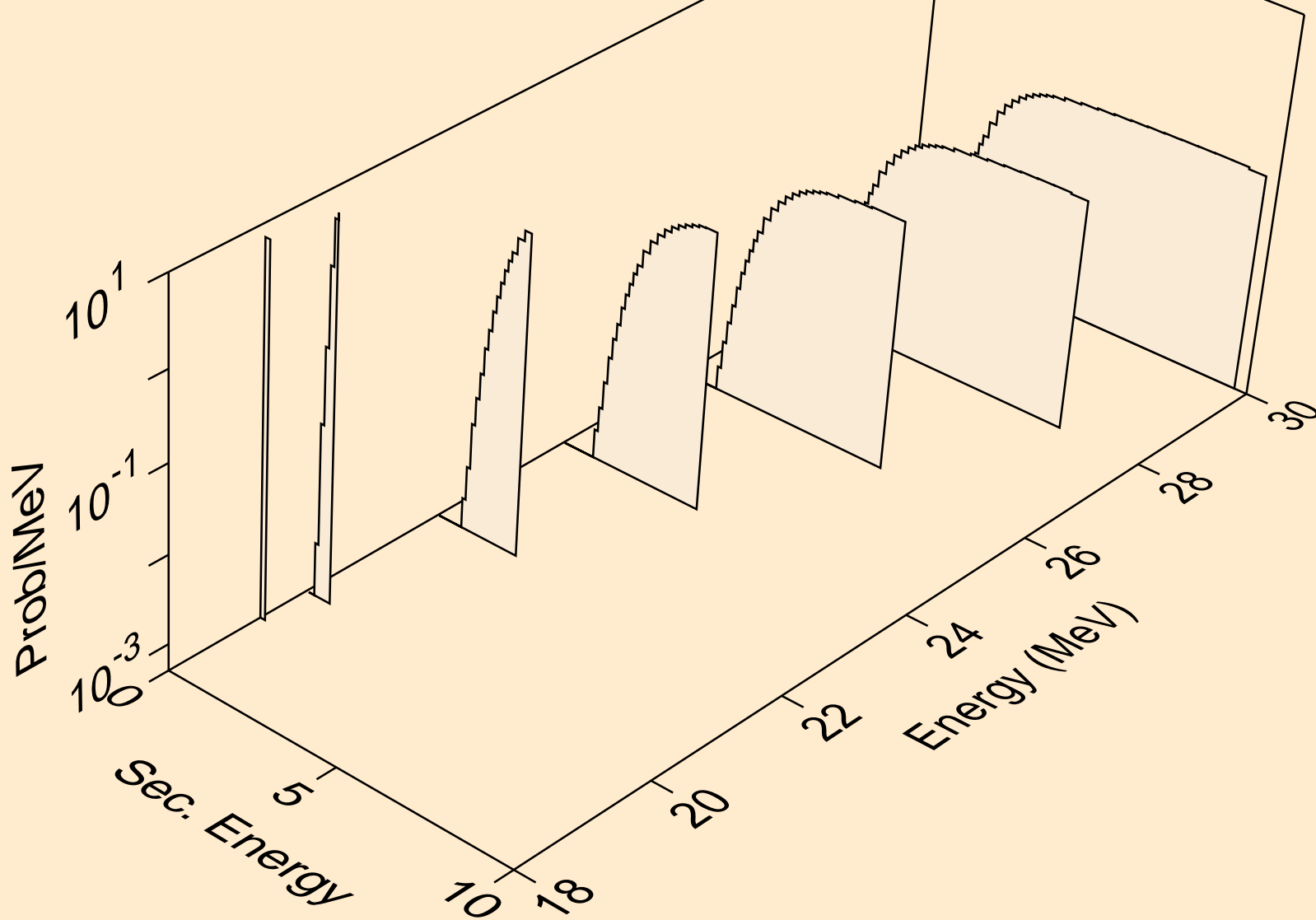


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deuterons from (n,2nd)

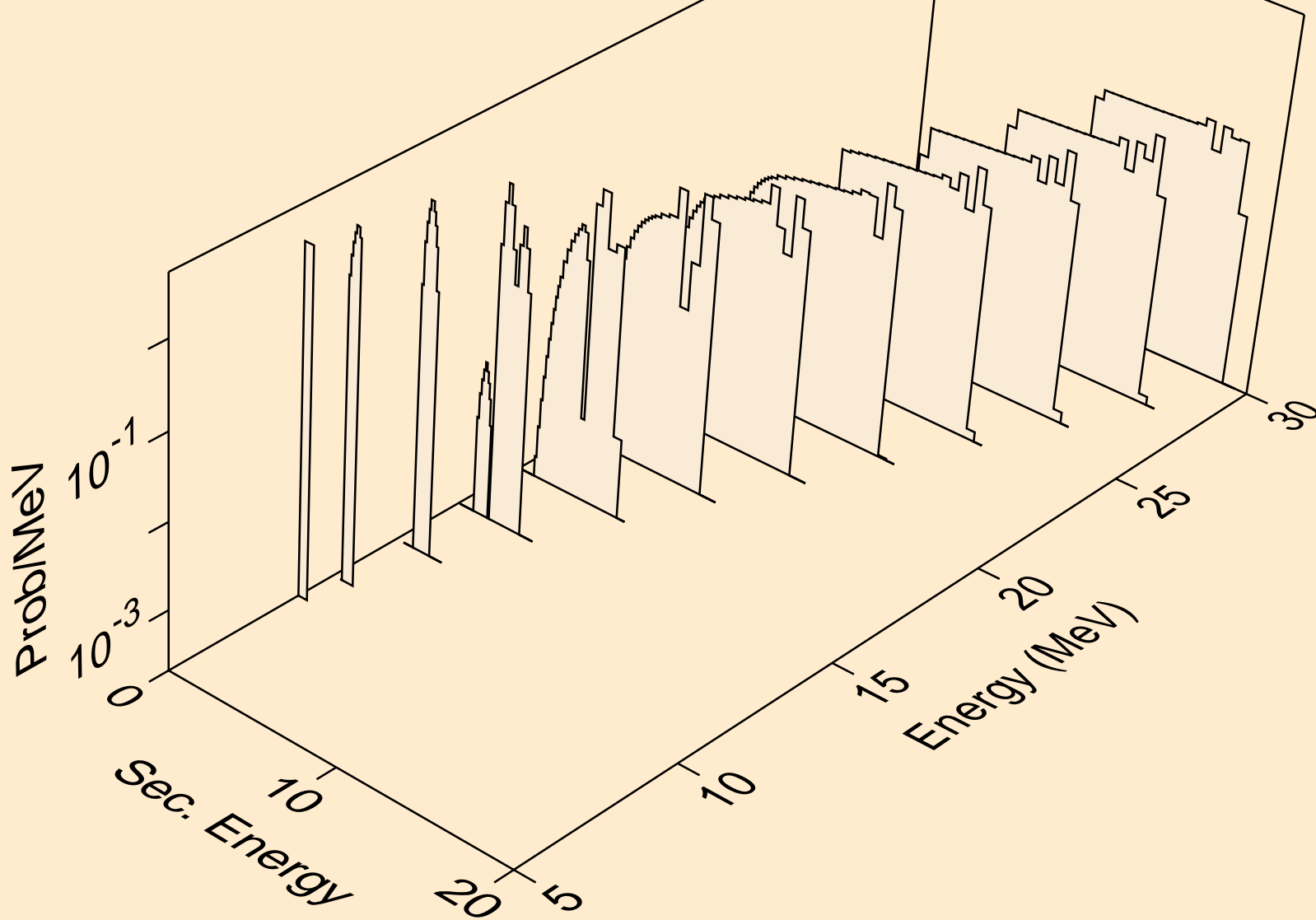




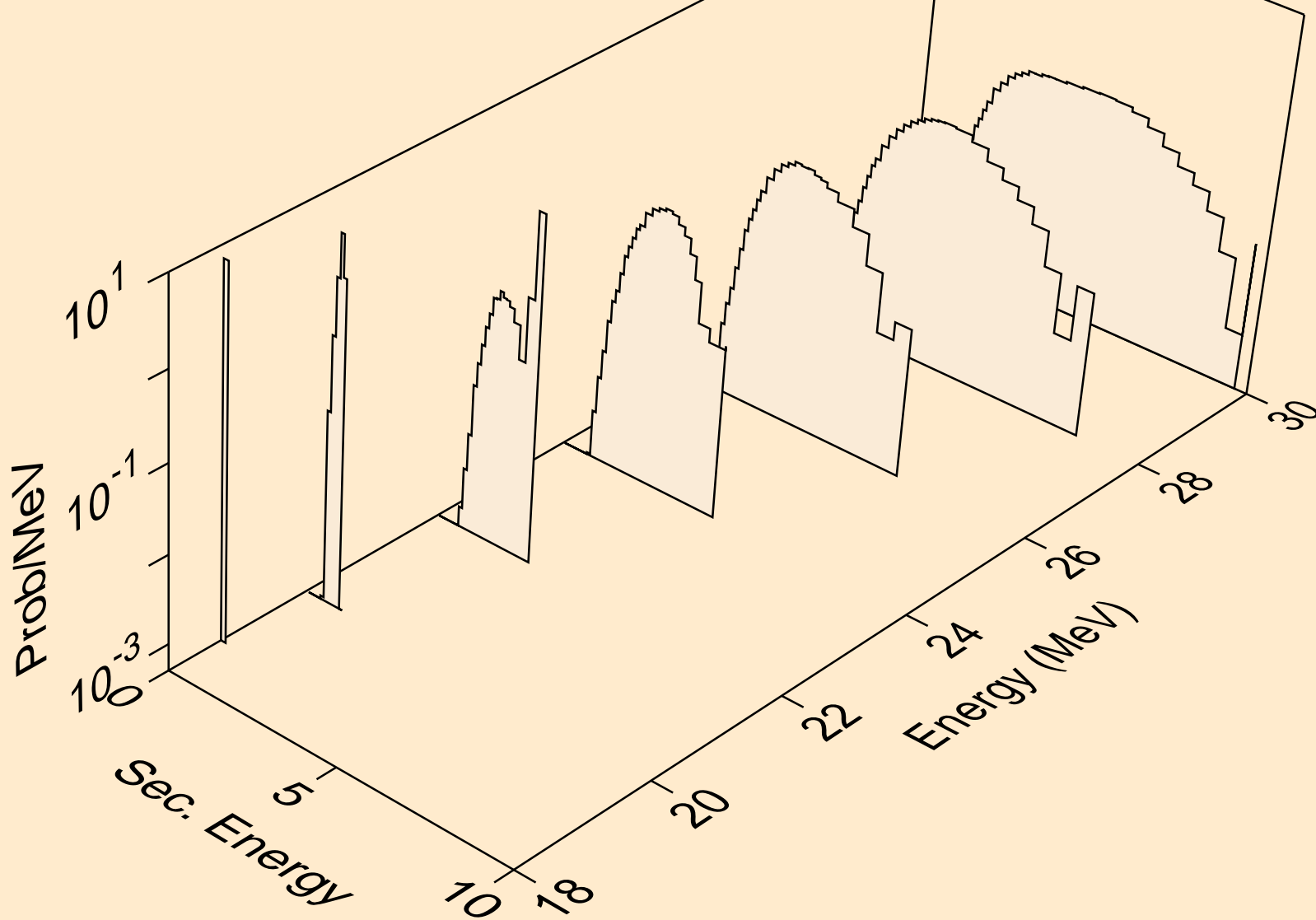
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deuterons from (n,n\*)d



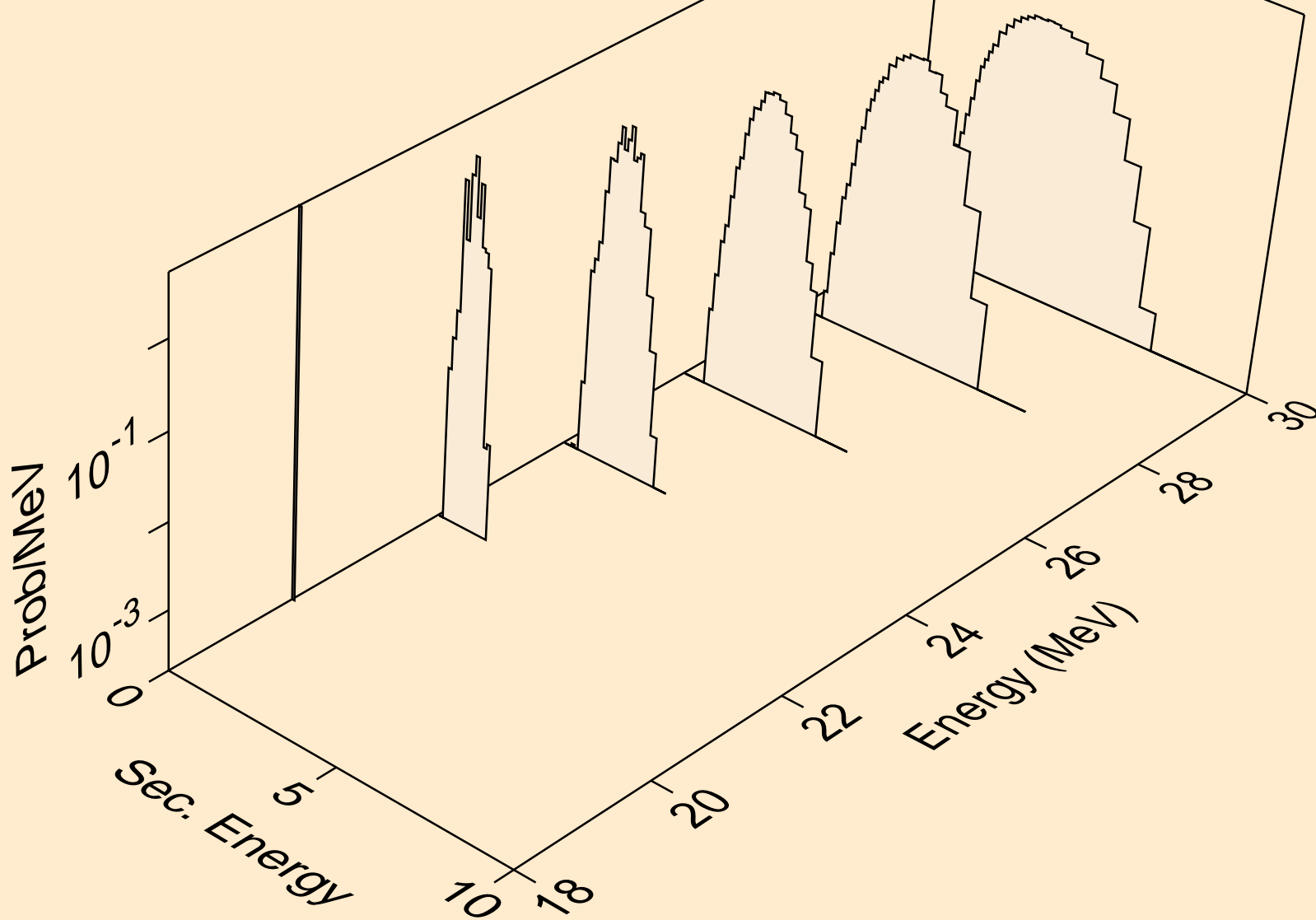
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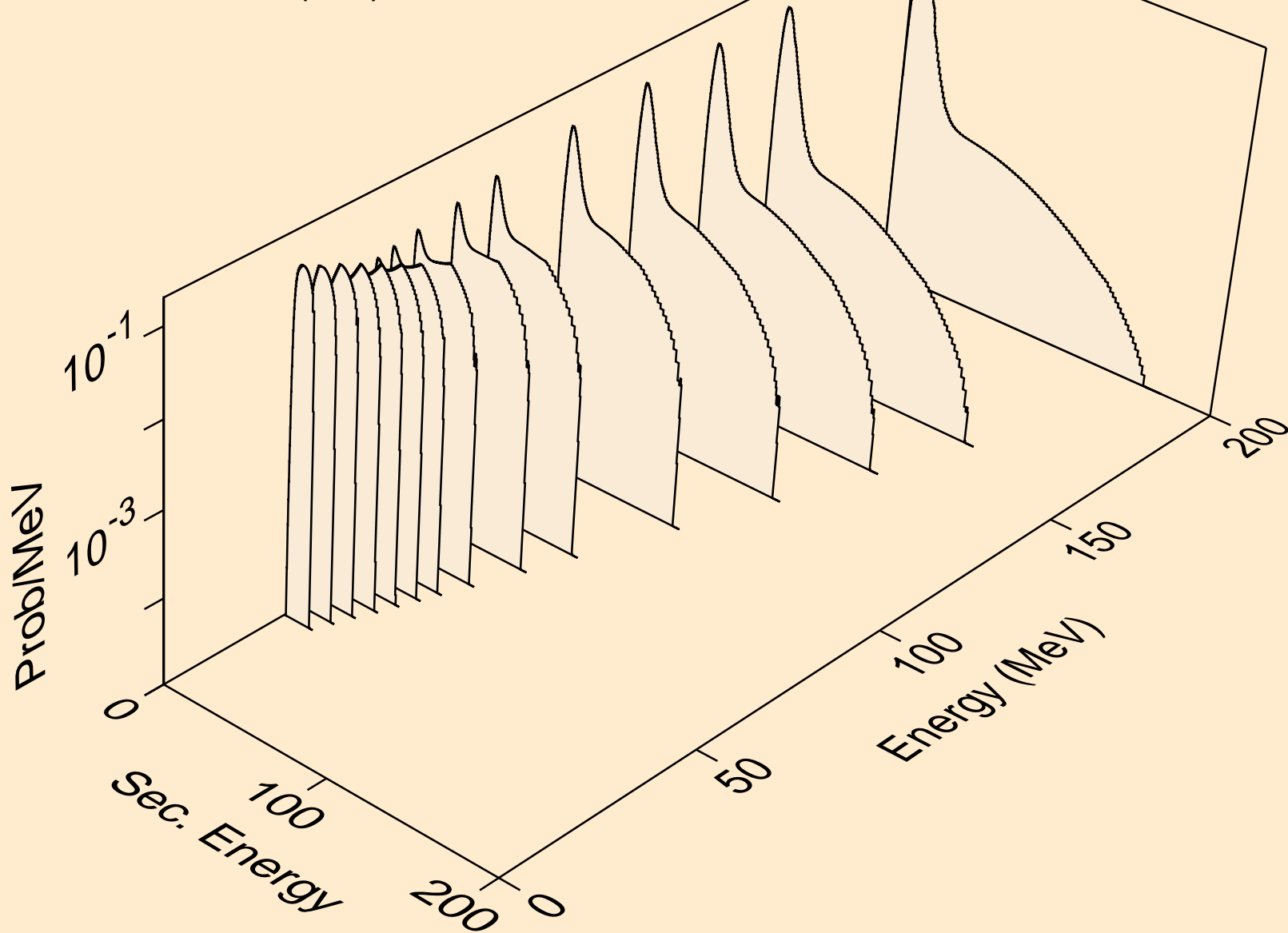
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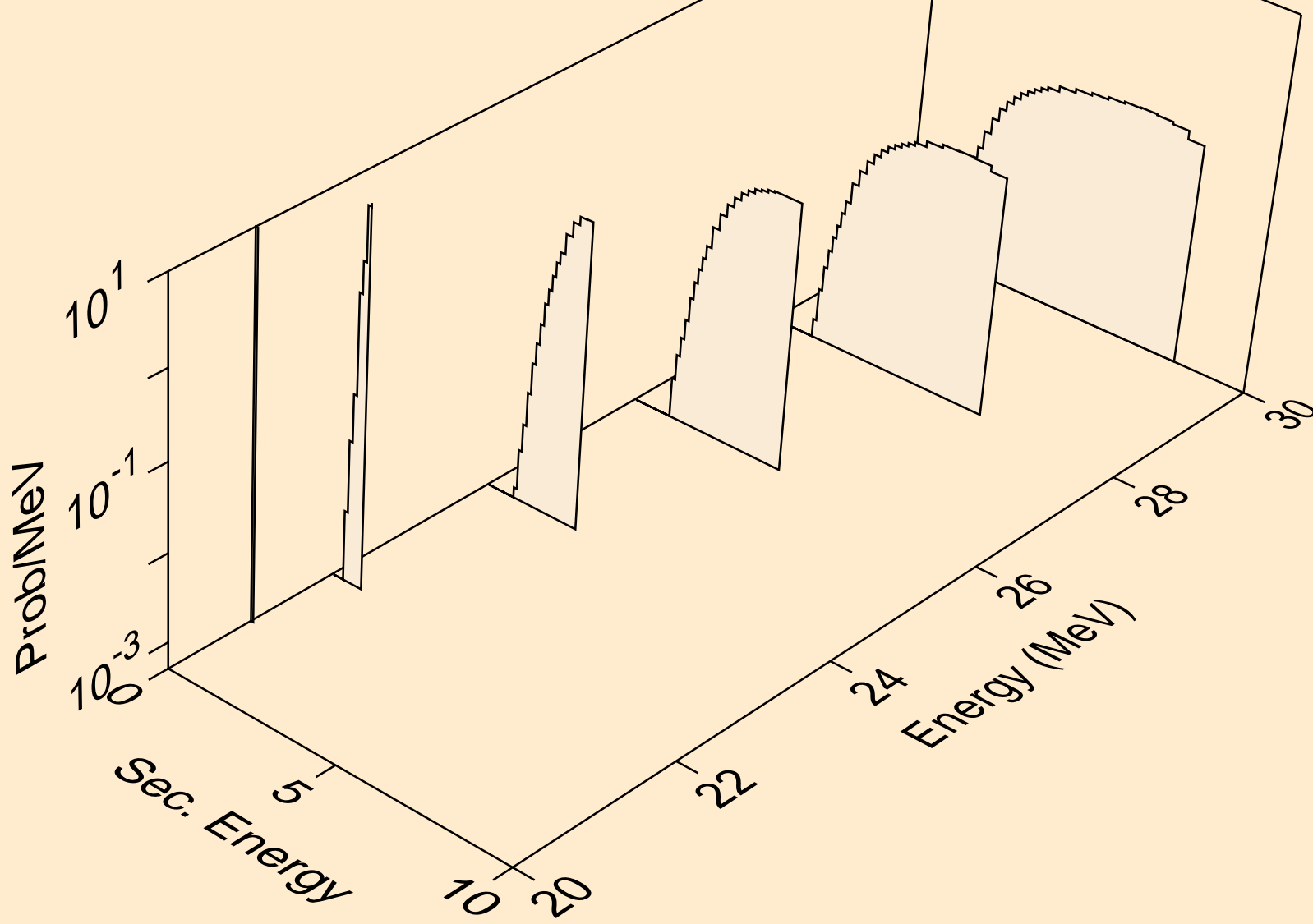
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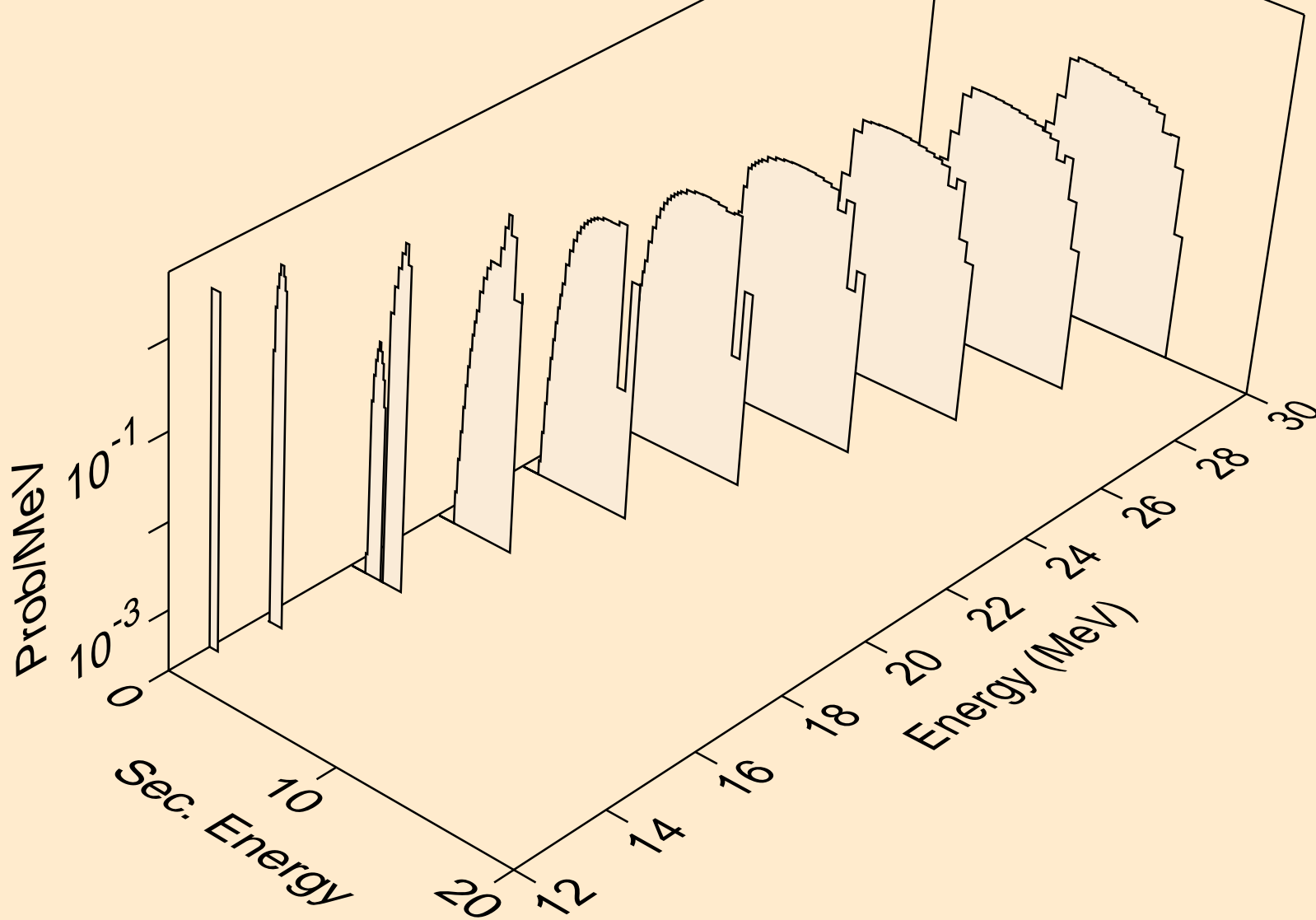
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tritons from (n,x)



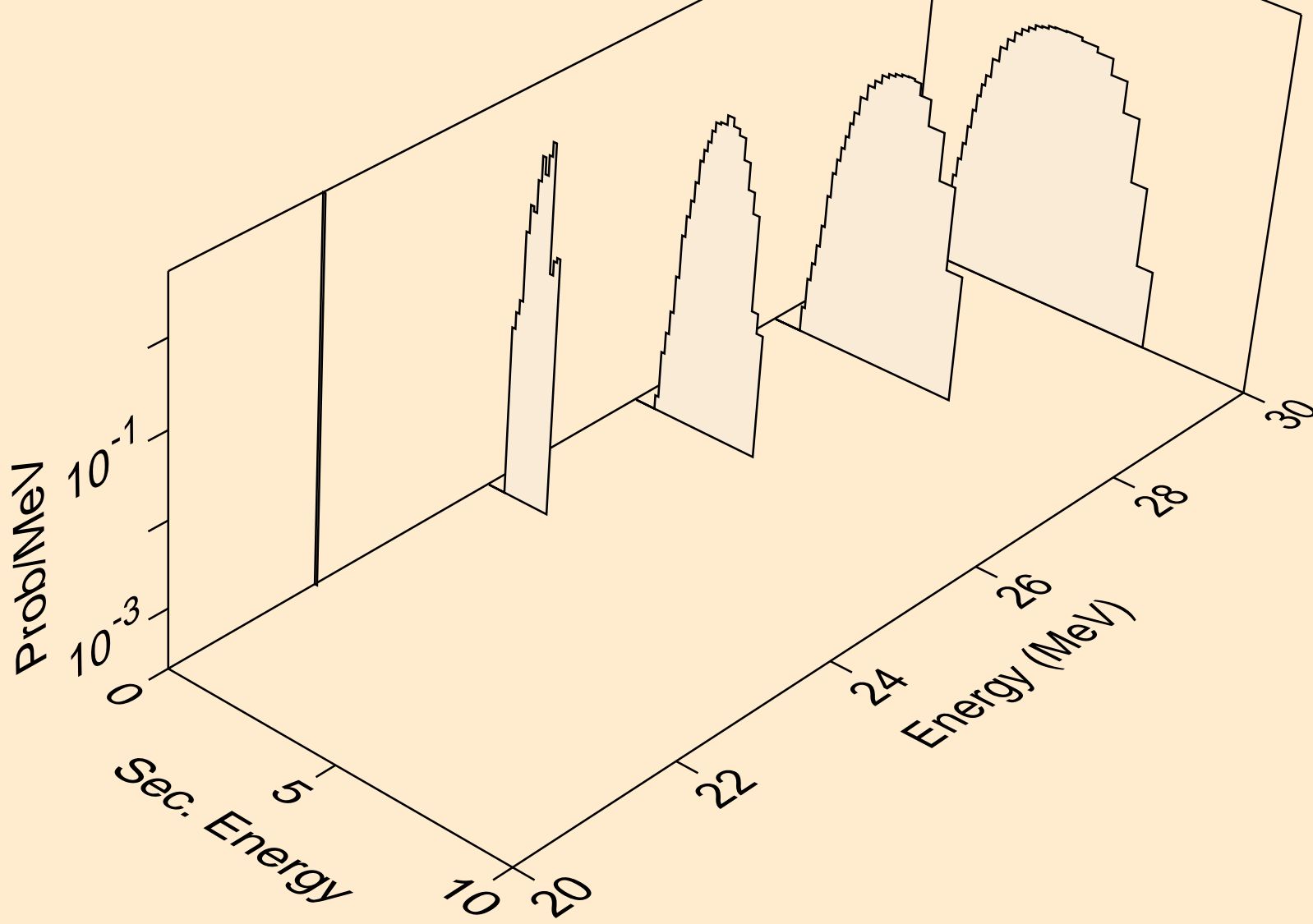
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tritons from (n,n\*)t



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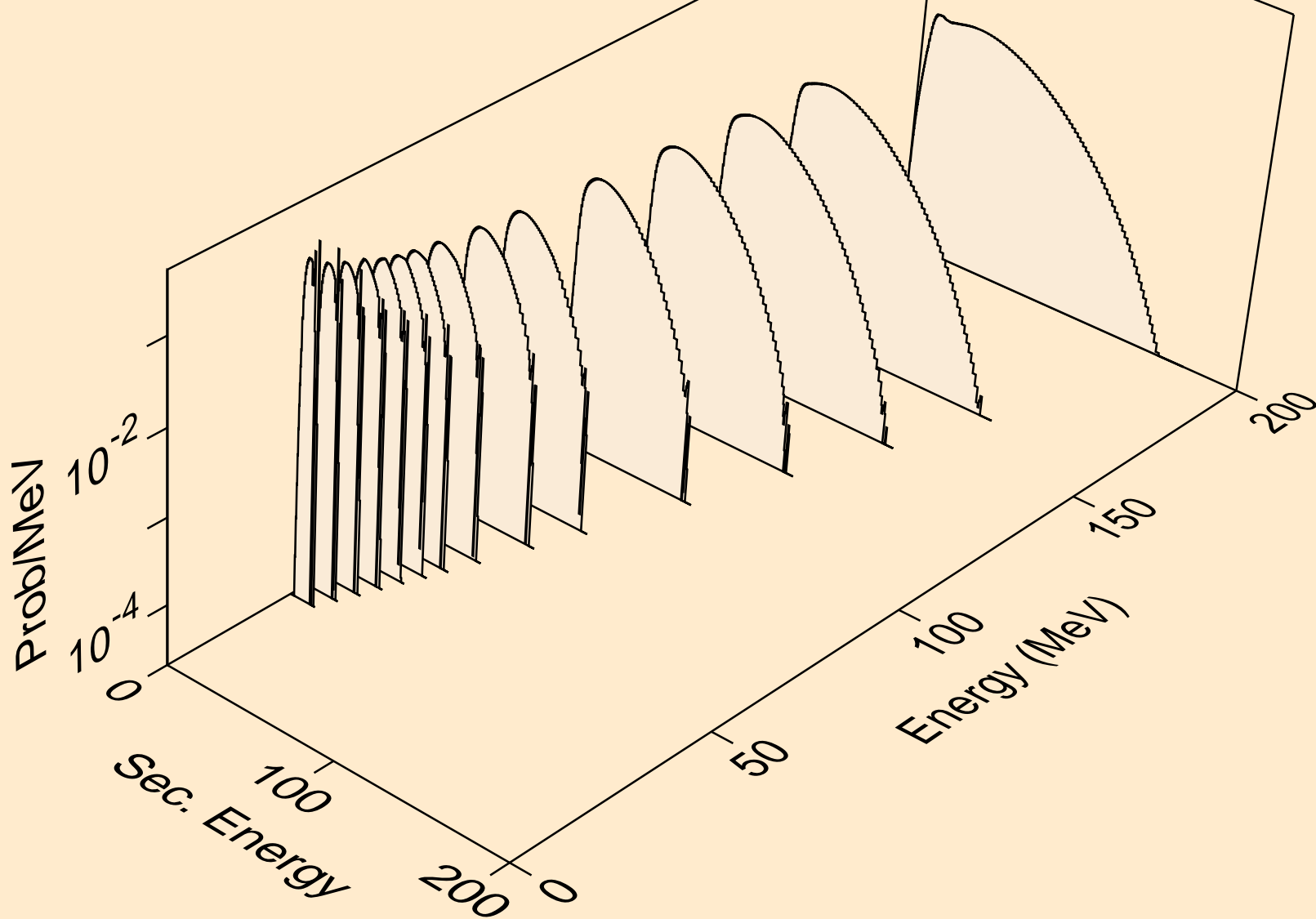


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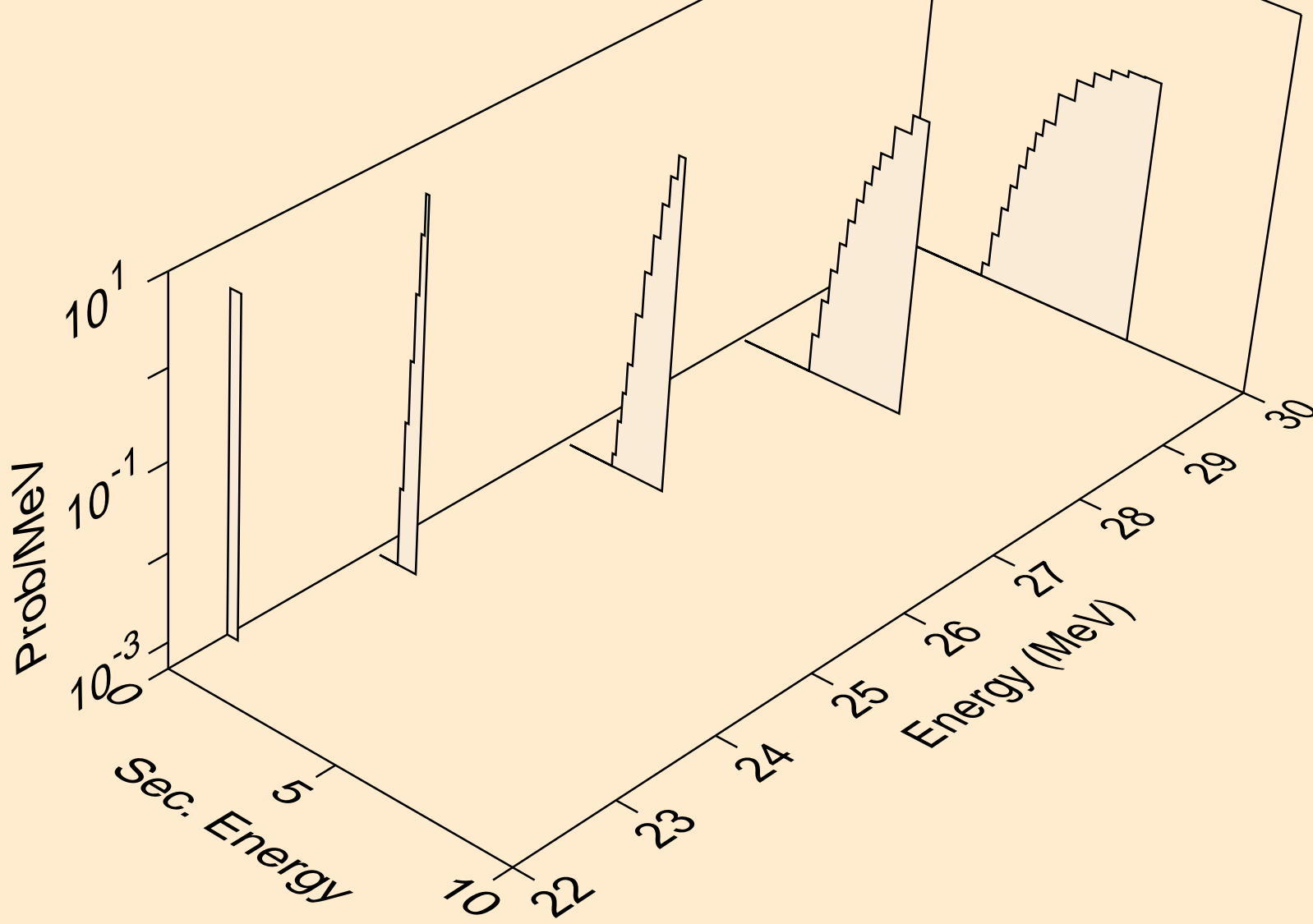




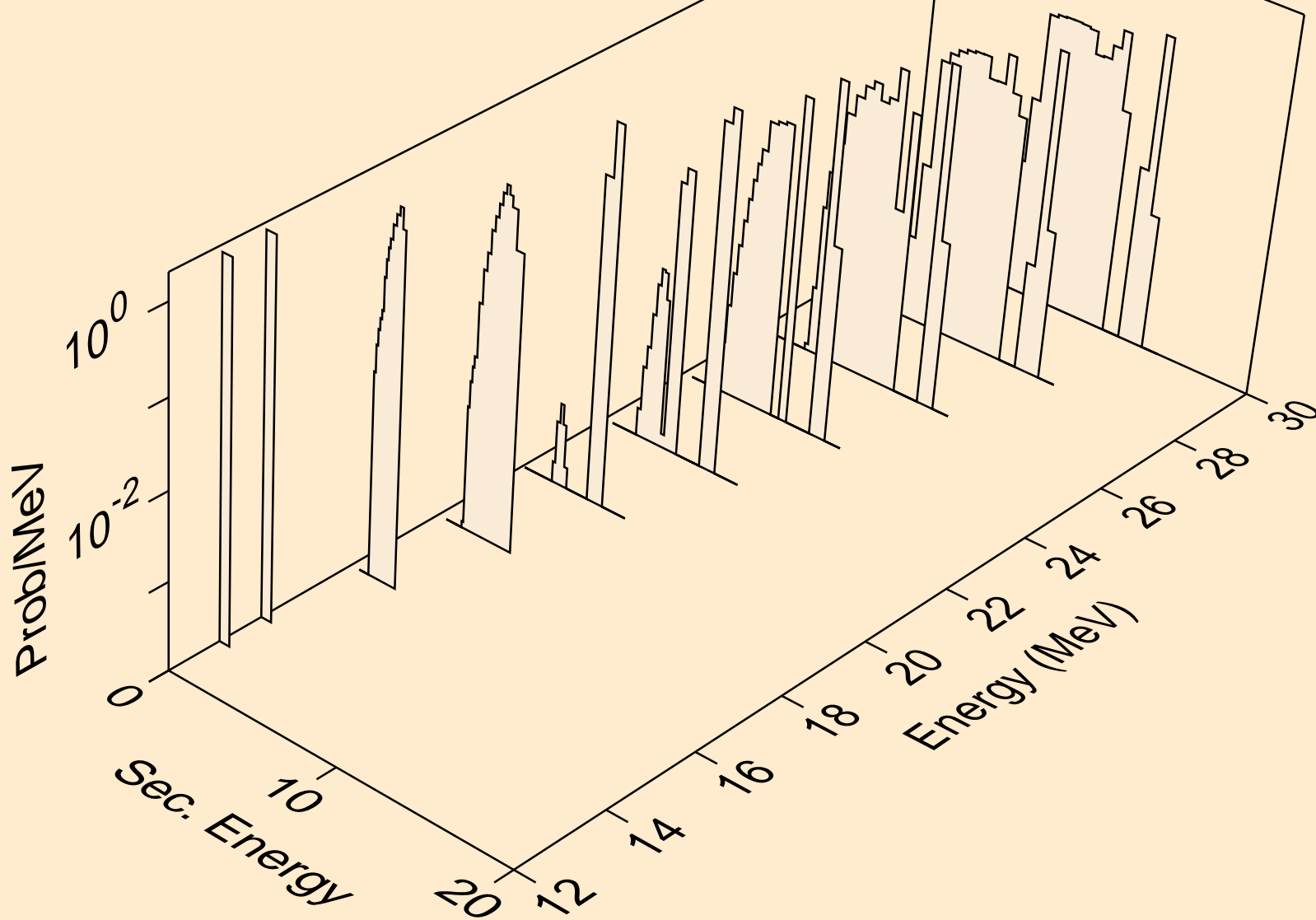
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he3s from (n,x)



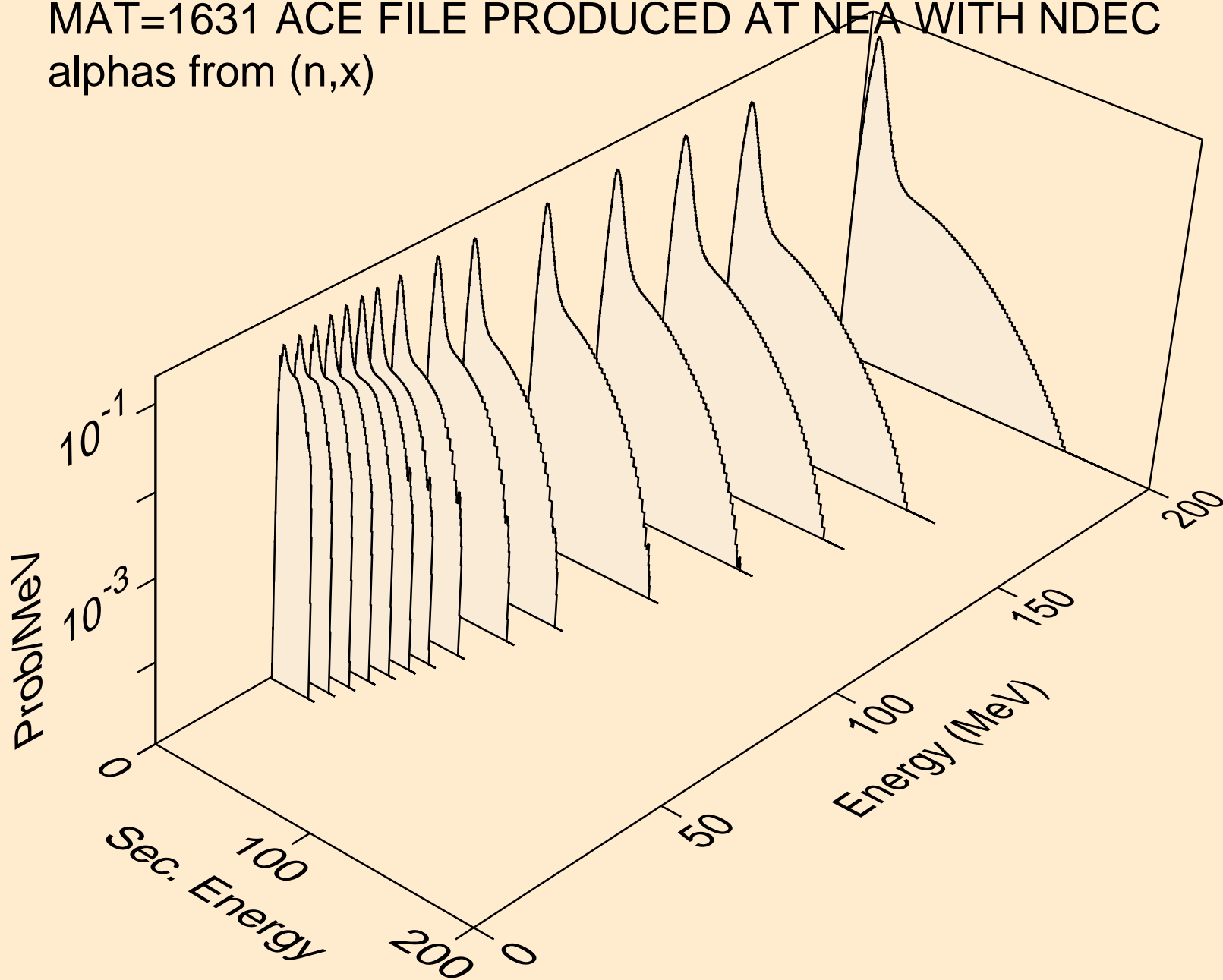
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he3s from (n,n\*)he3



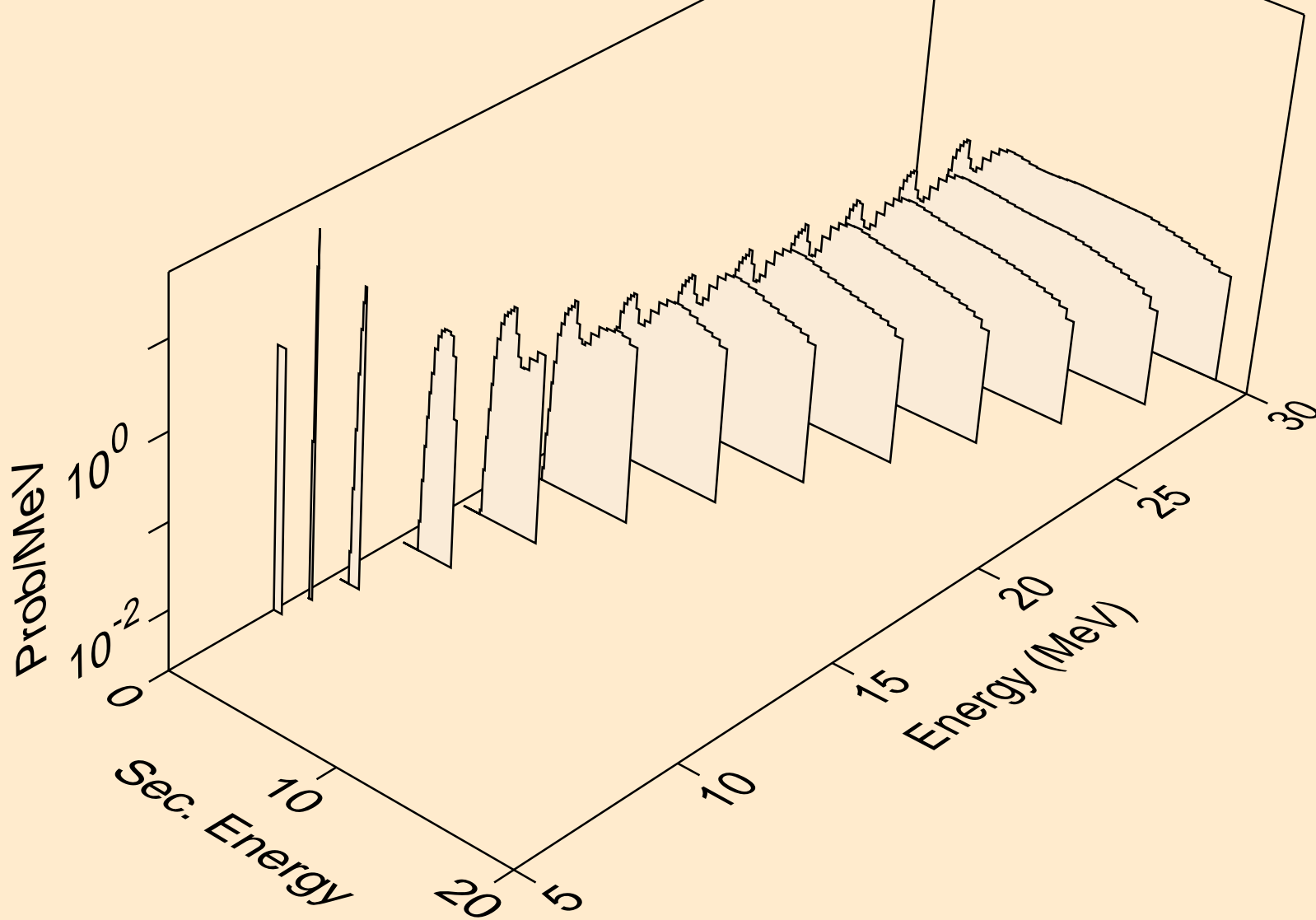
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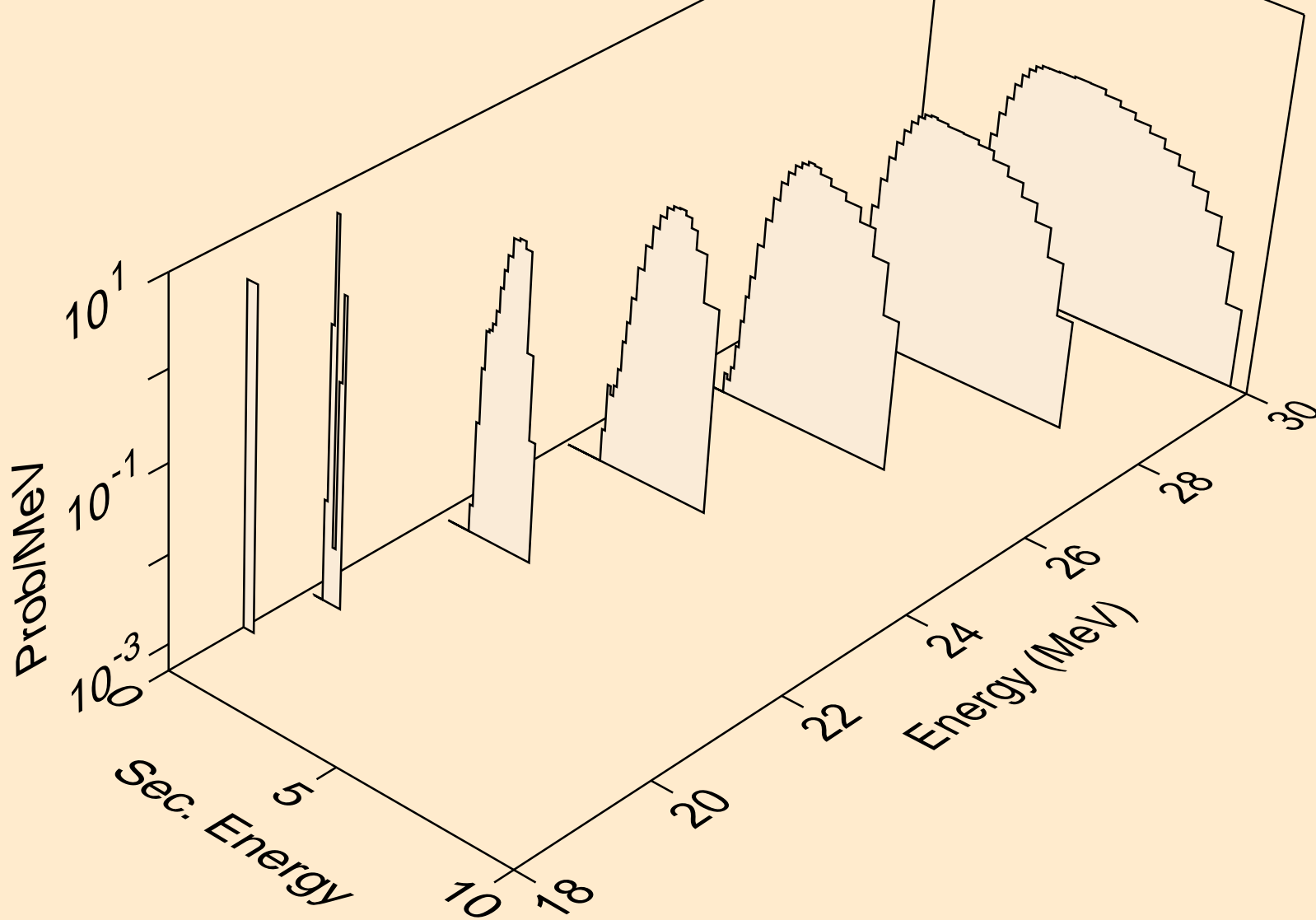
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alphas from (n,x)



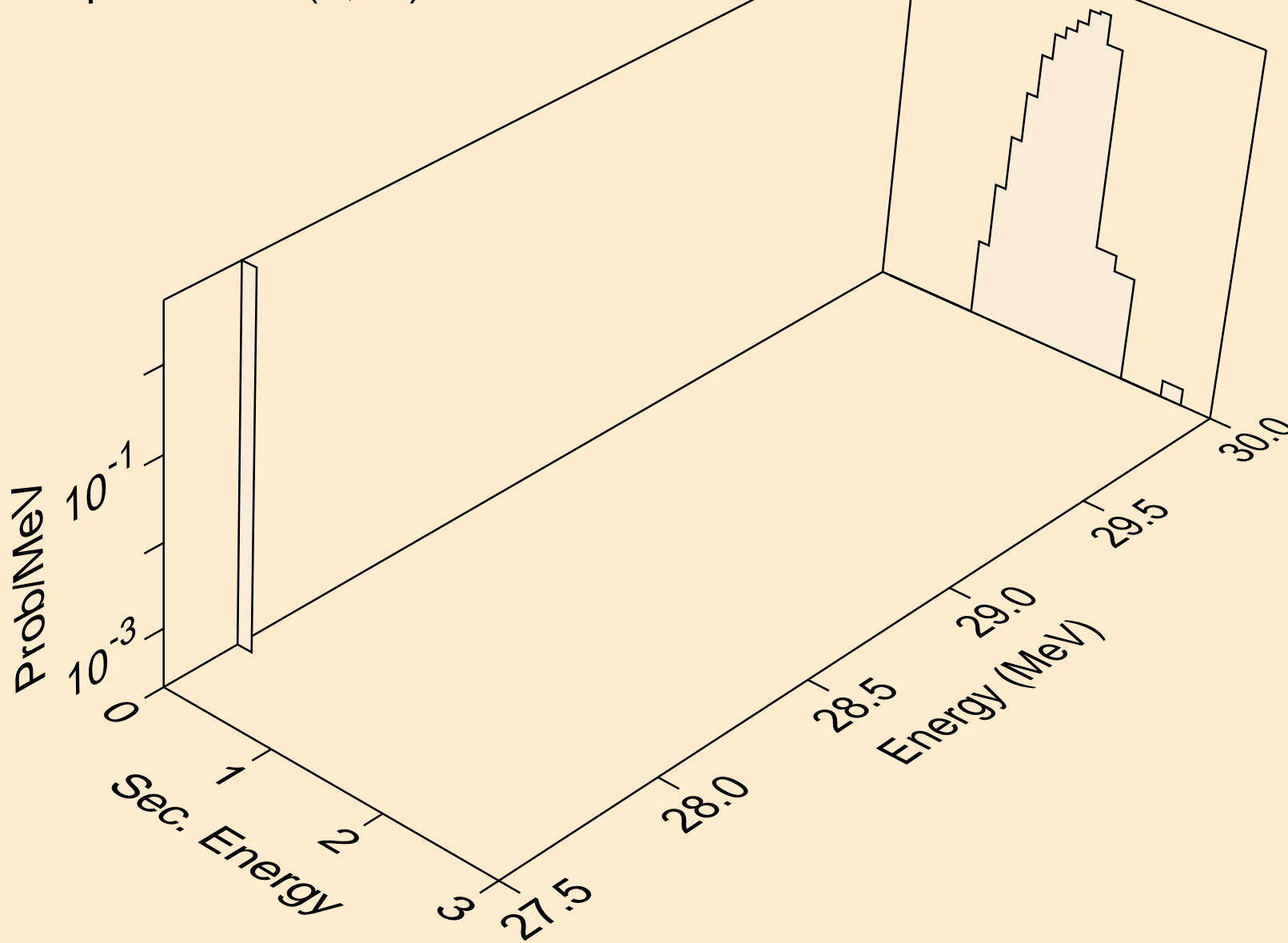
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alphas from (n,n\*)a



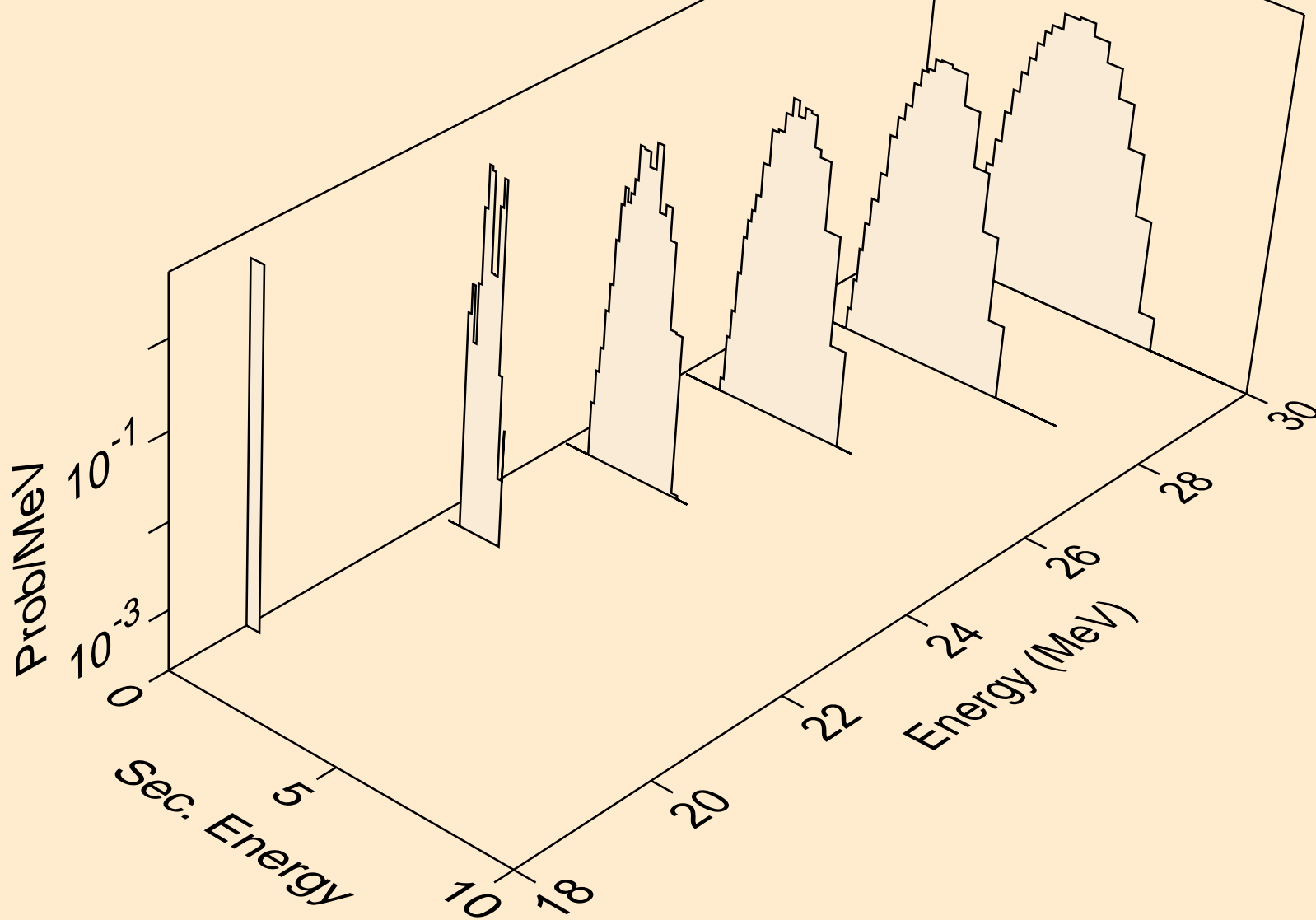
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MAT=1631 ACE FILE PRODUCED AT NEA WITH NDEC  
alphas from (n,3n)a

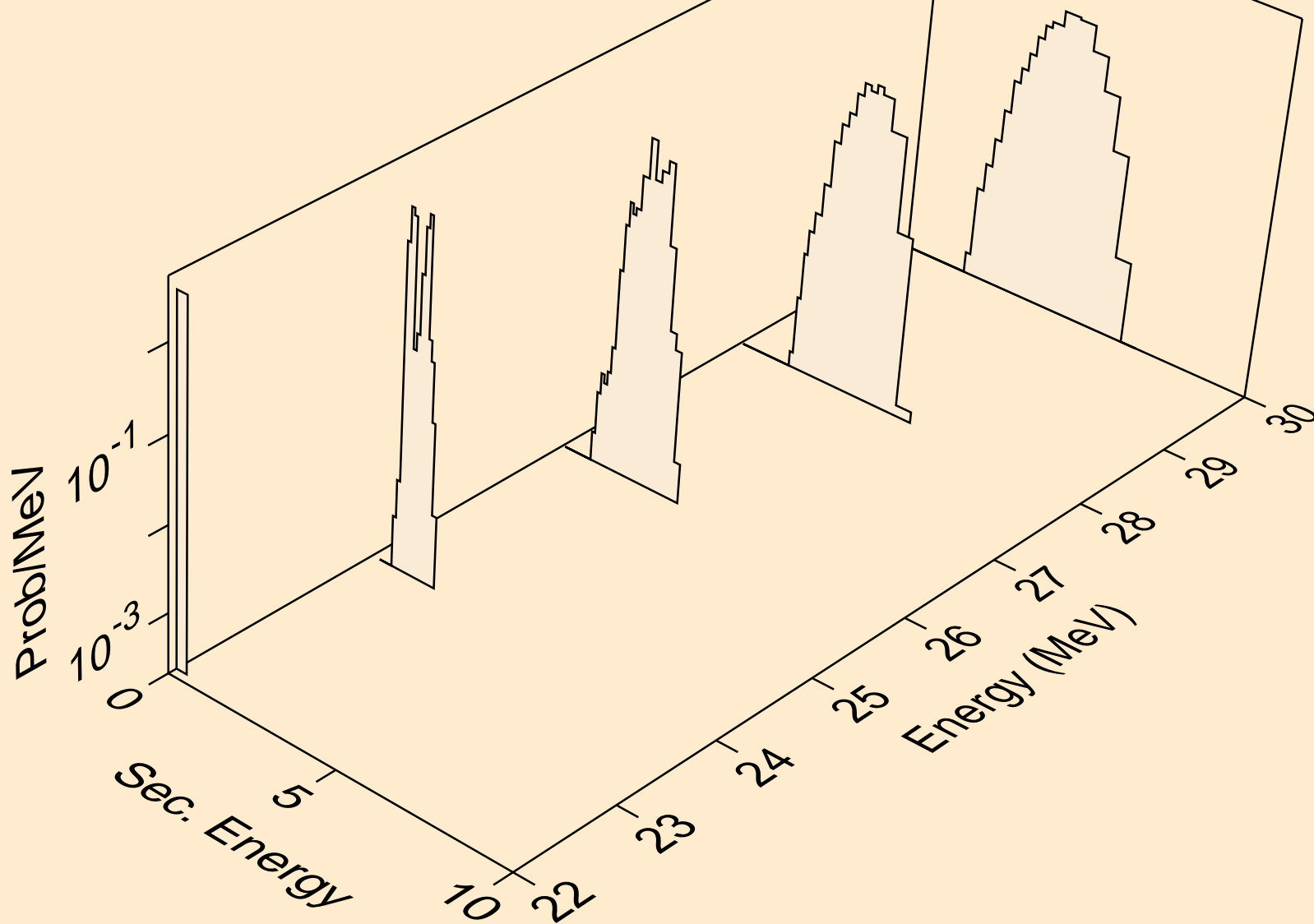


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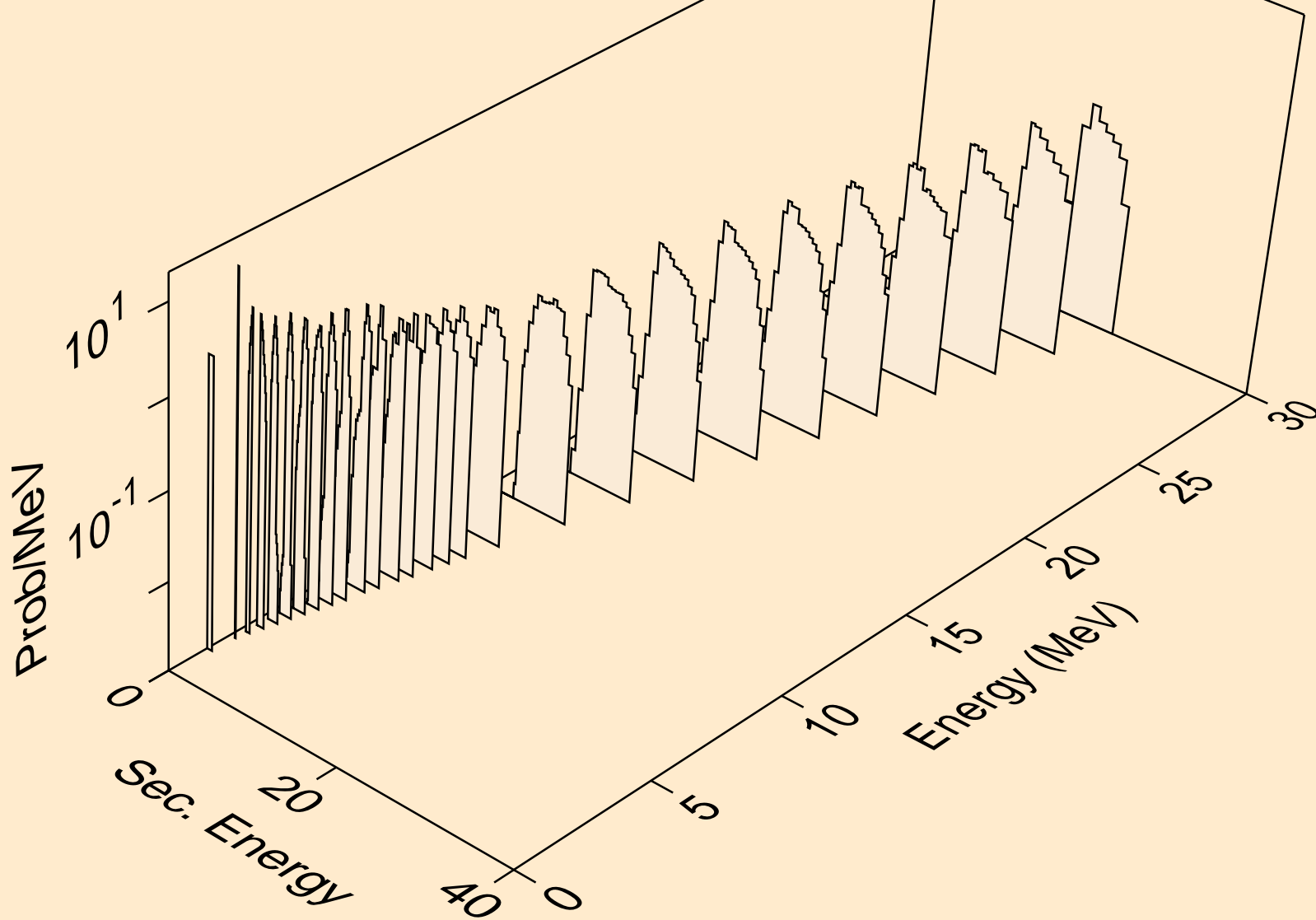




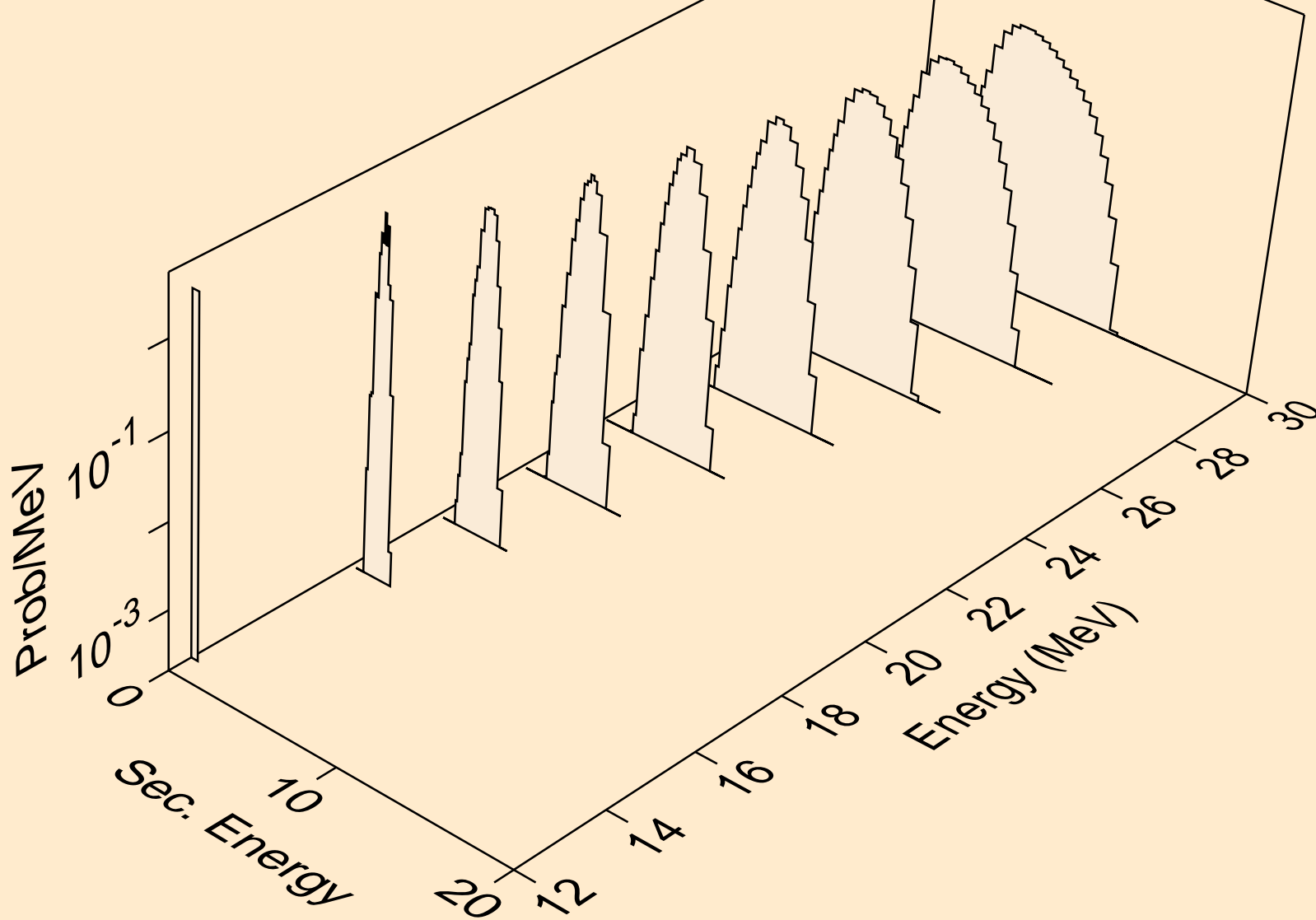
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alphas from (n,npa)



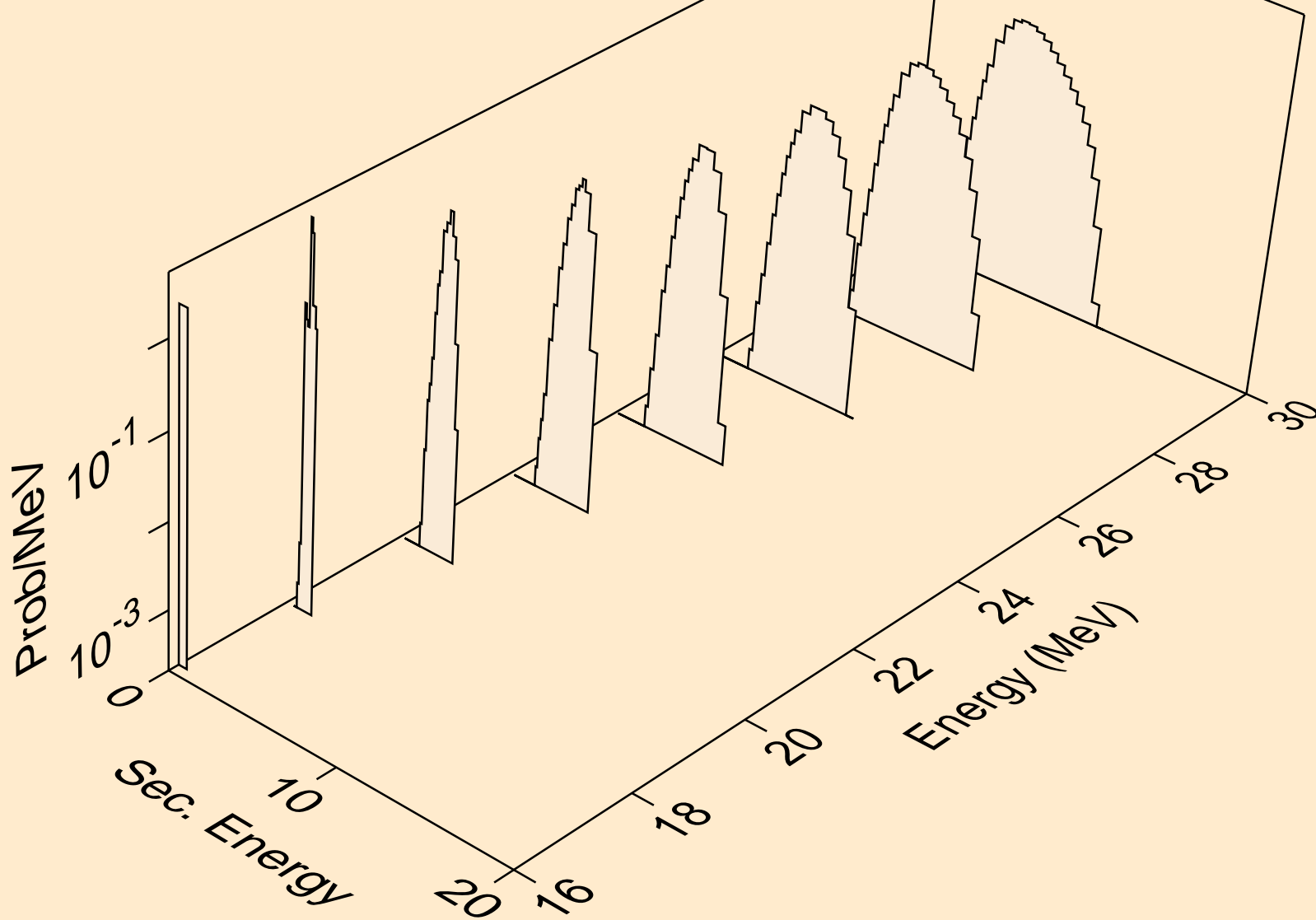
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alphas from (n,a)



MAT=1631 ACE FILE PRODUCED AT NEA WITH NDEC  
alphas from (n,2a)



MAT=1631 ACE FILE PRODUCED AT NEA WITH NDEC  
alphas from (n,pa)



MAT=1631 ACE FILE PRODUCED AT NEA WITH NDEC  
alphas from (n,da)

