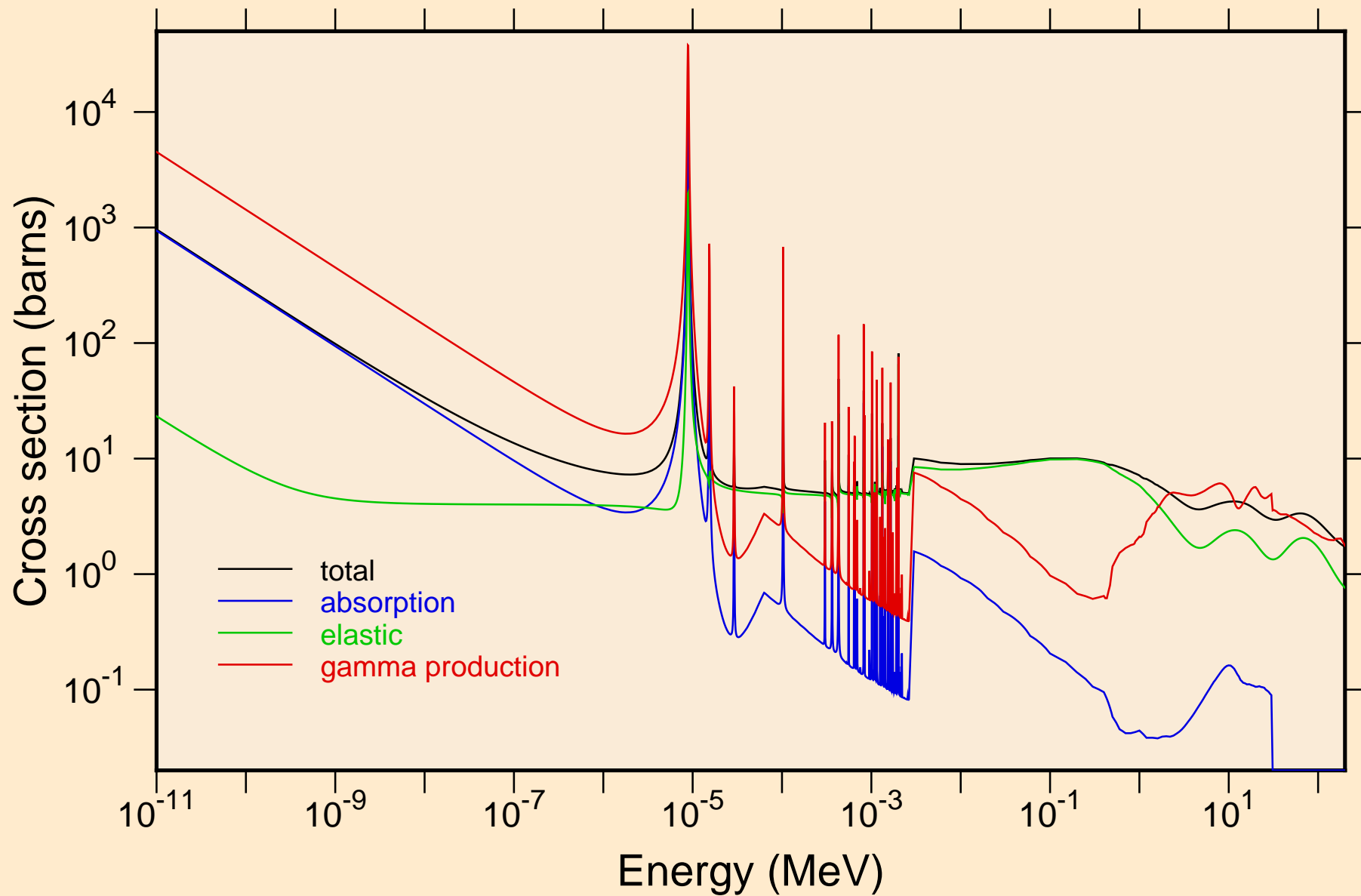
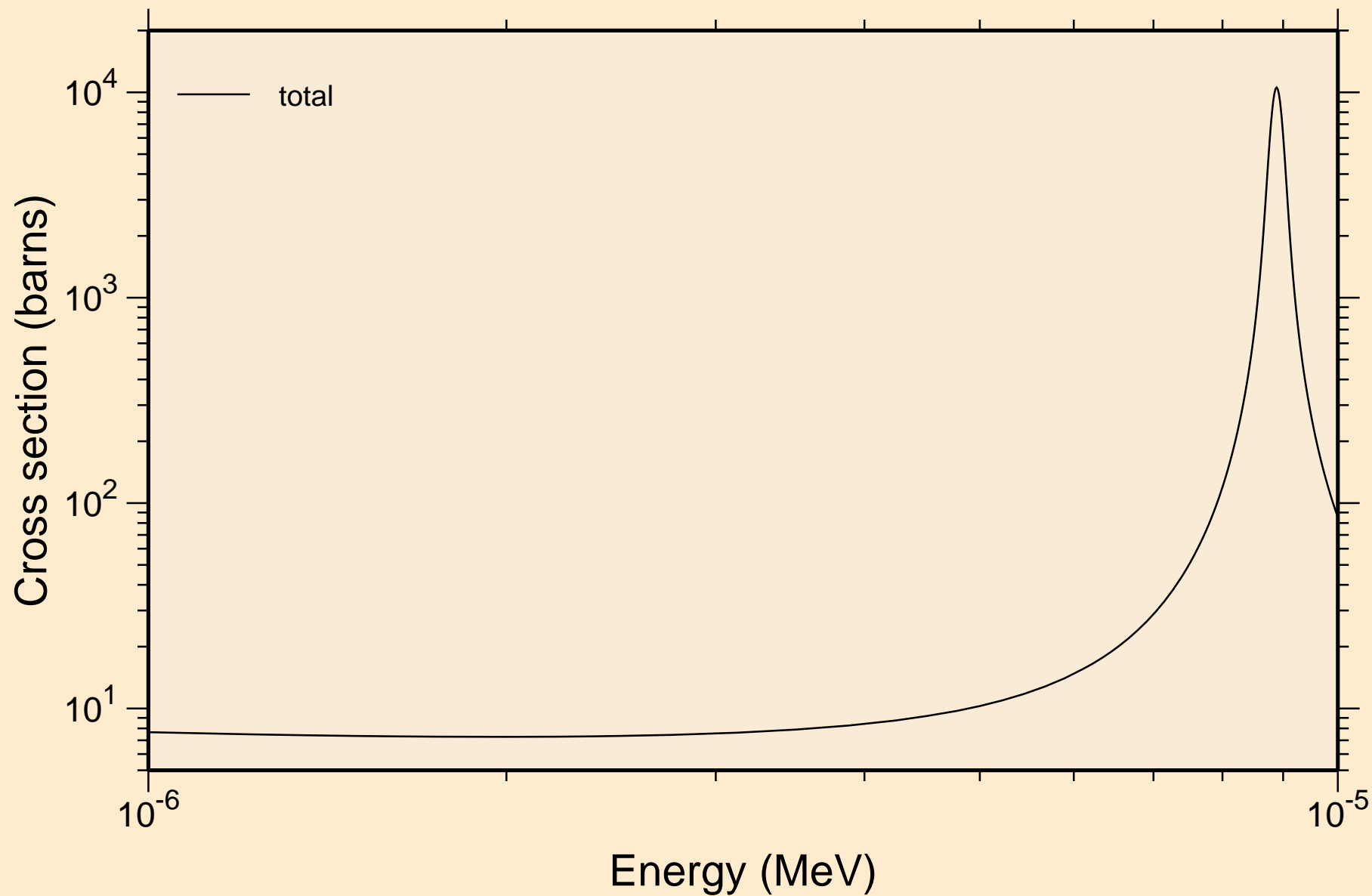


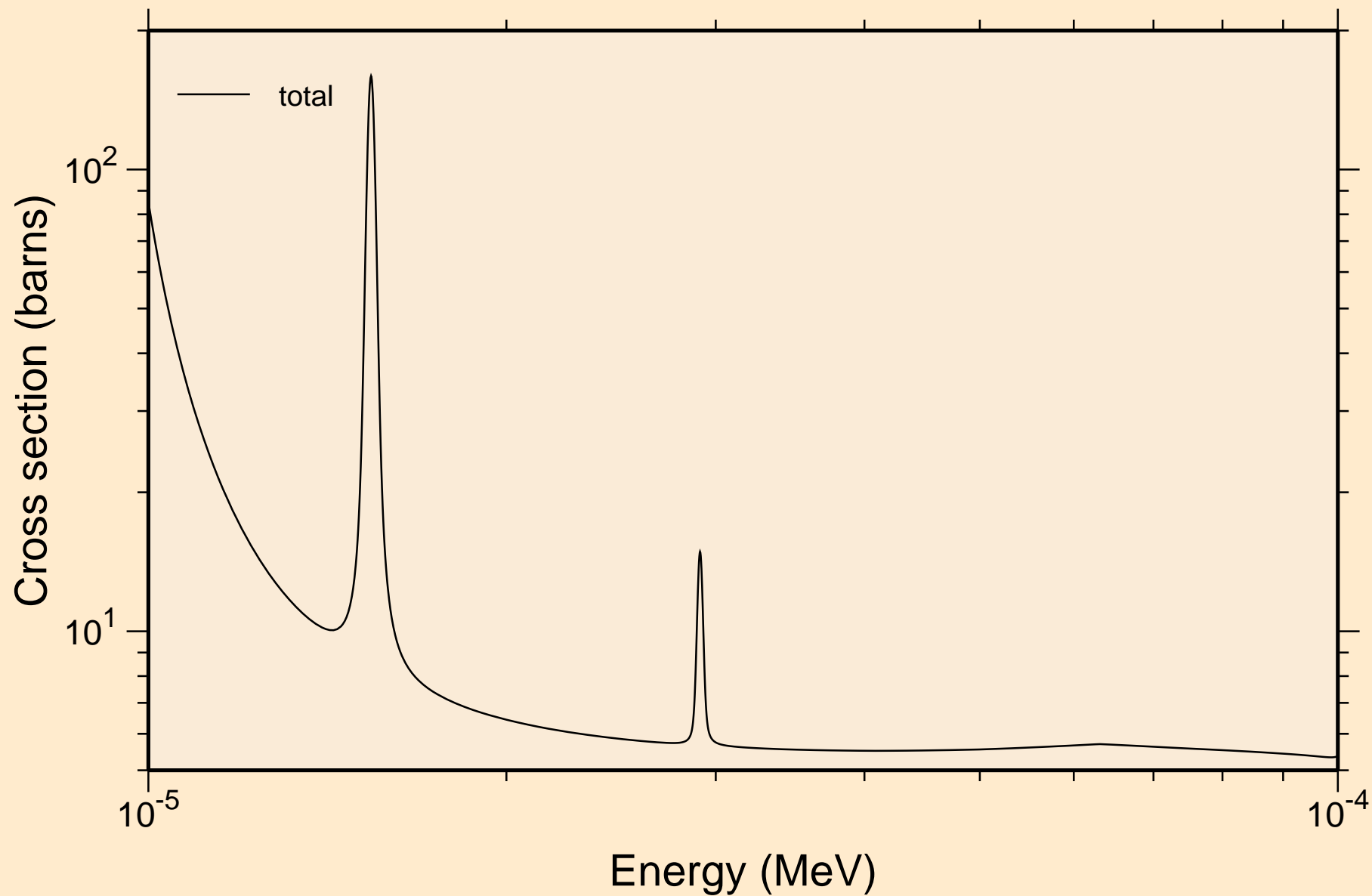
MAT=4513 ACE FILE PRODUCED AT NEA WITH NDEC  
Principal cross sections



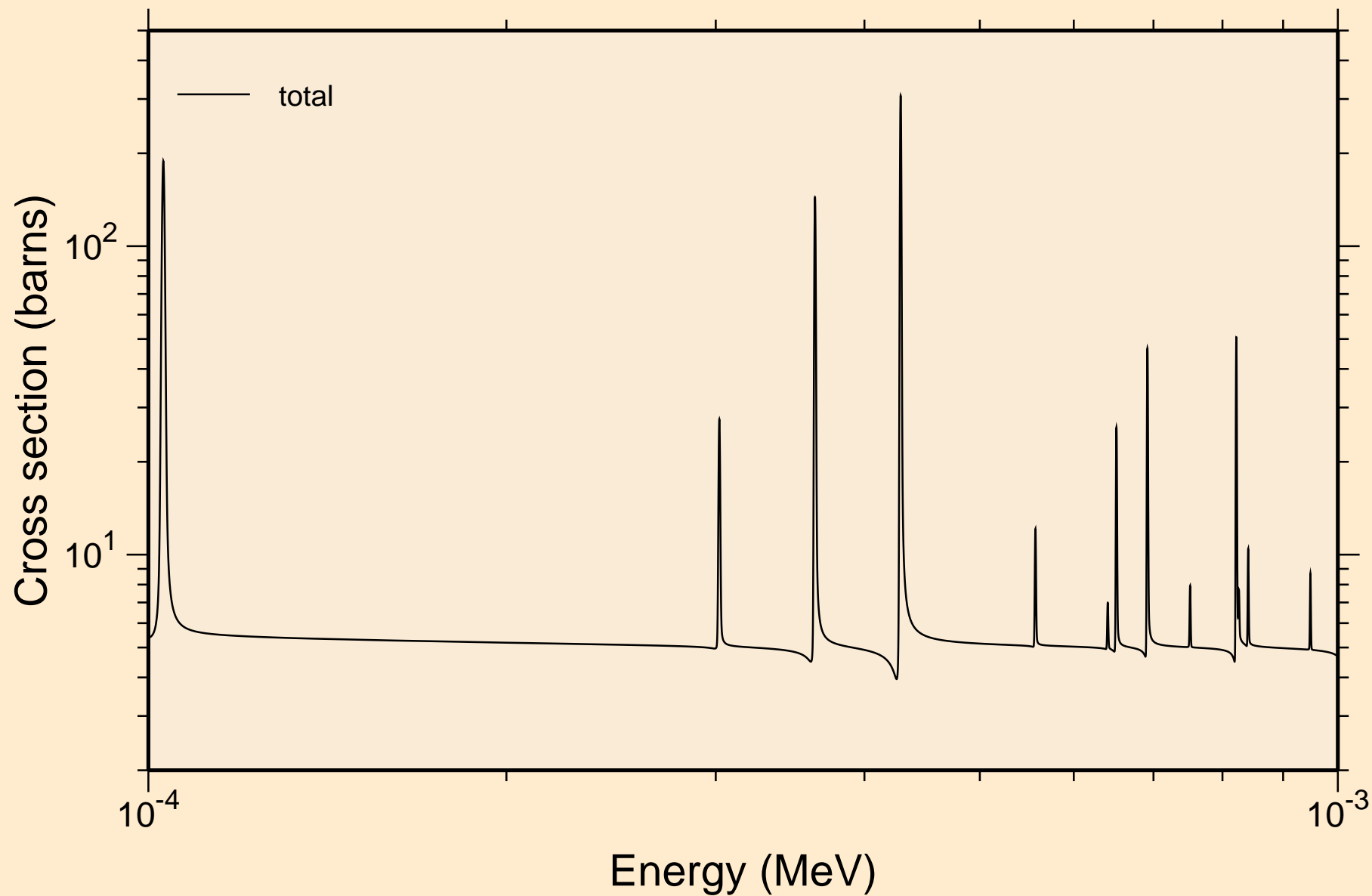
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resonance total cross section



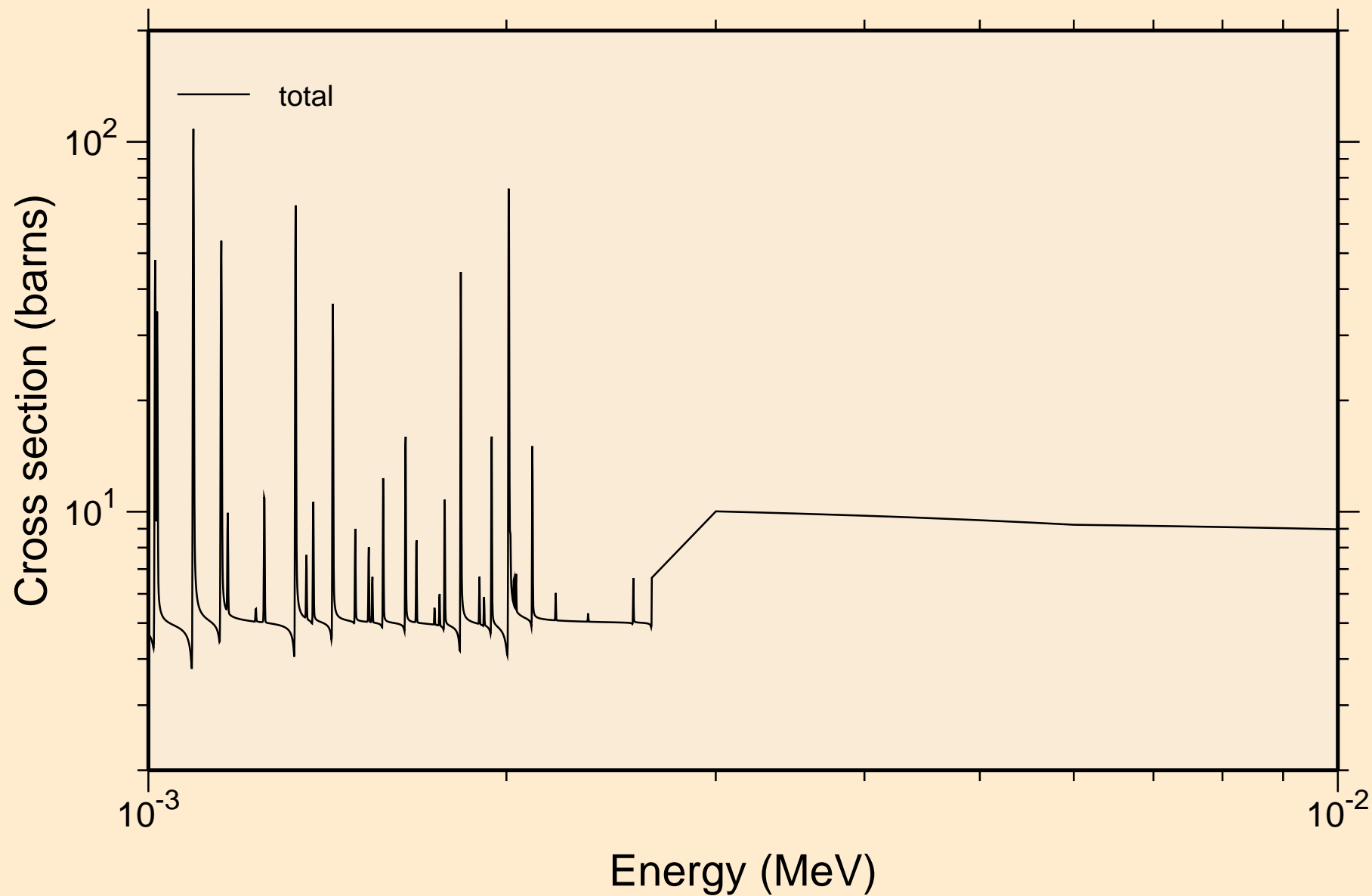
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resonance total cross section



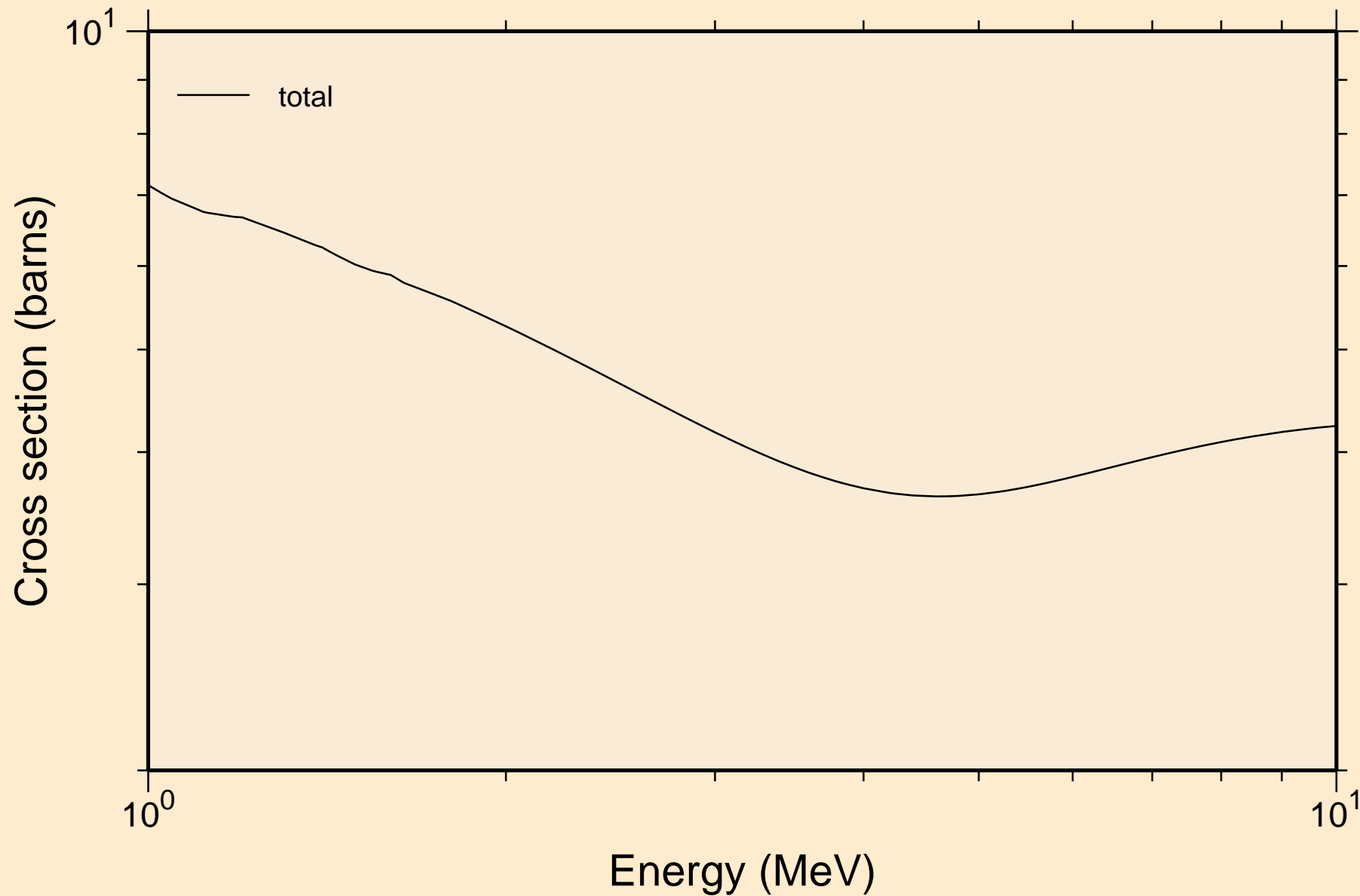
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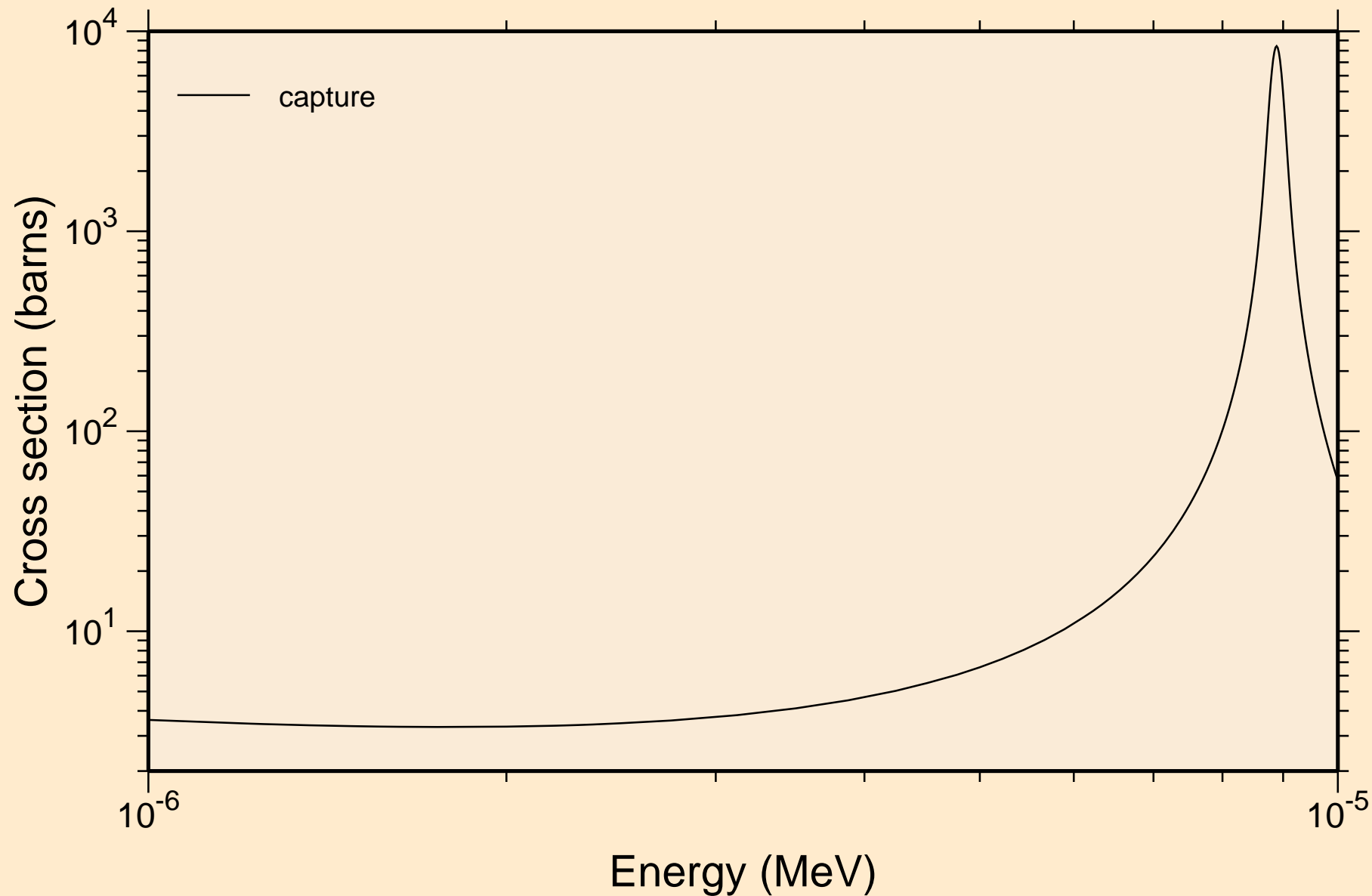
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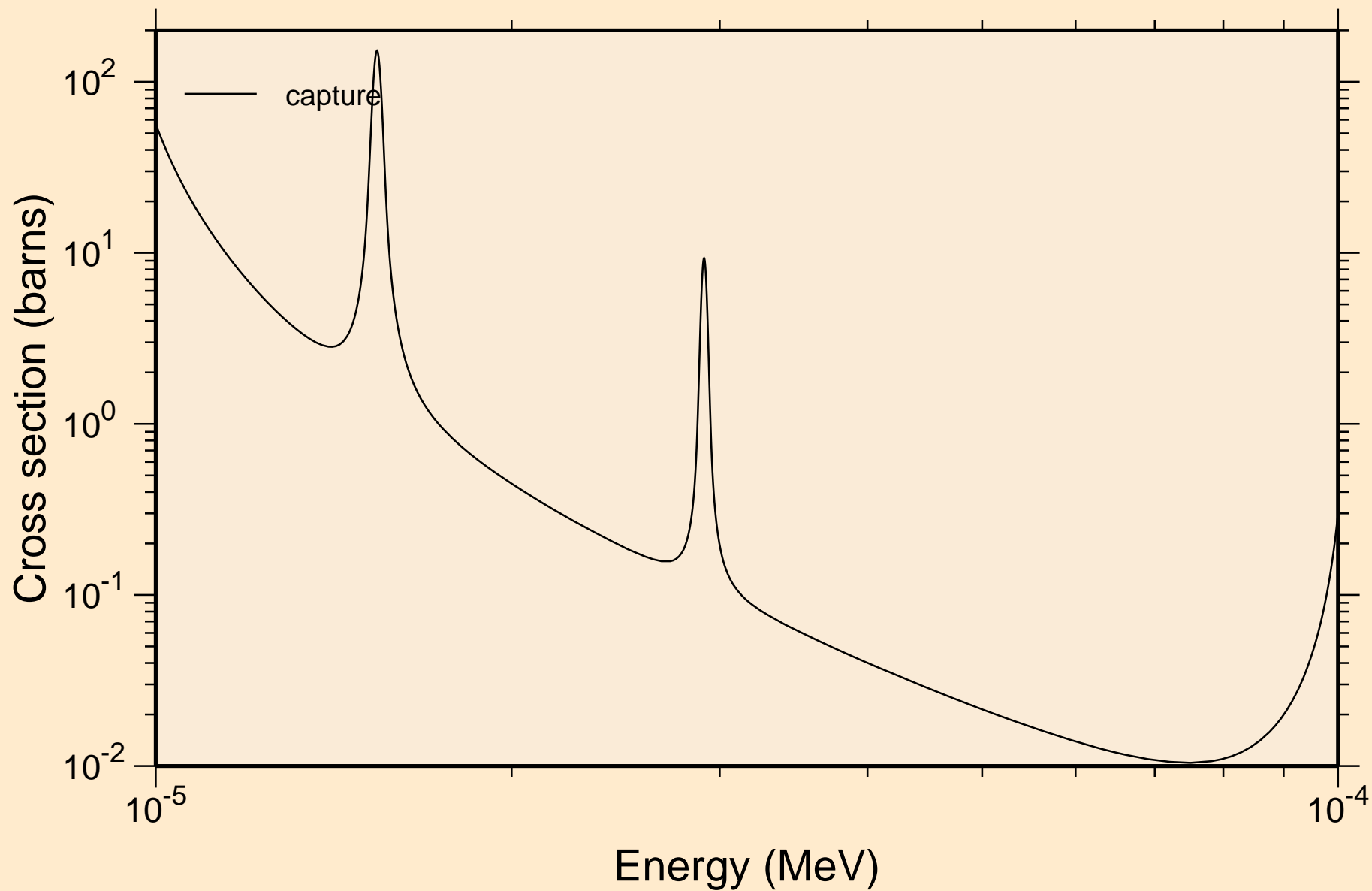
MAT=4513 ACE FILE PRODUCED AT NEA WITH NDEC  
resonance total cross section



MAT=4513 ACE FILE PRODUCED AT NEA WITH NDEC  
resonance absorption cross sections

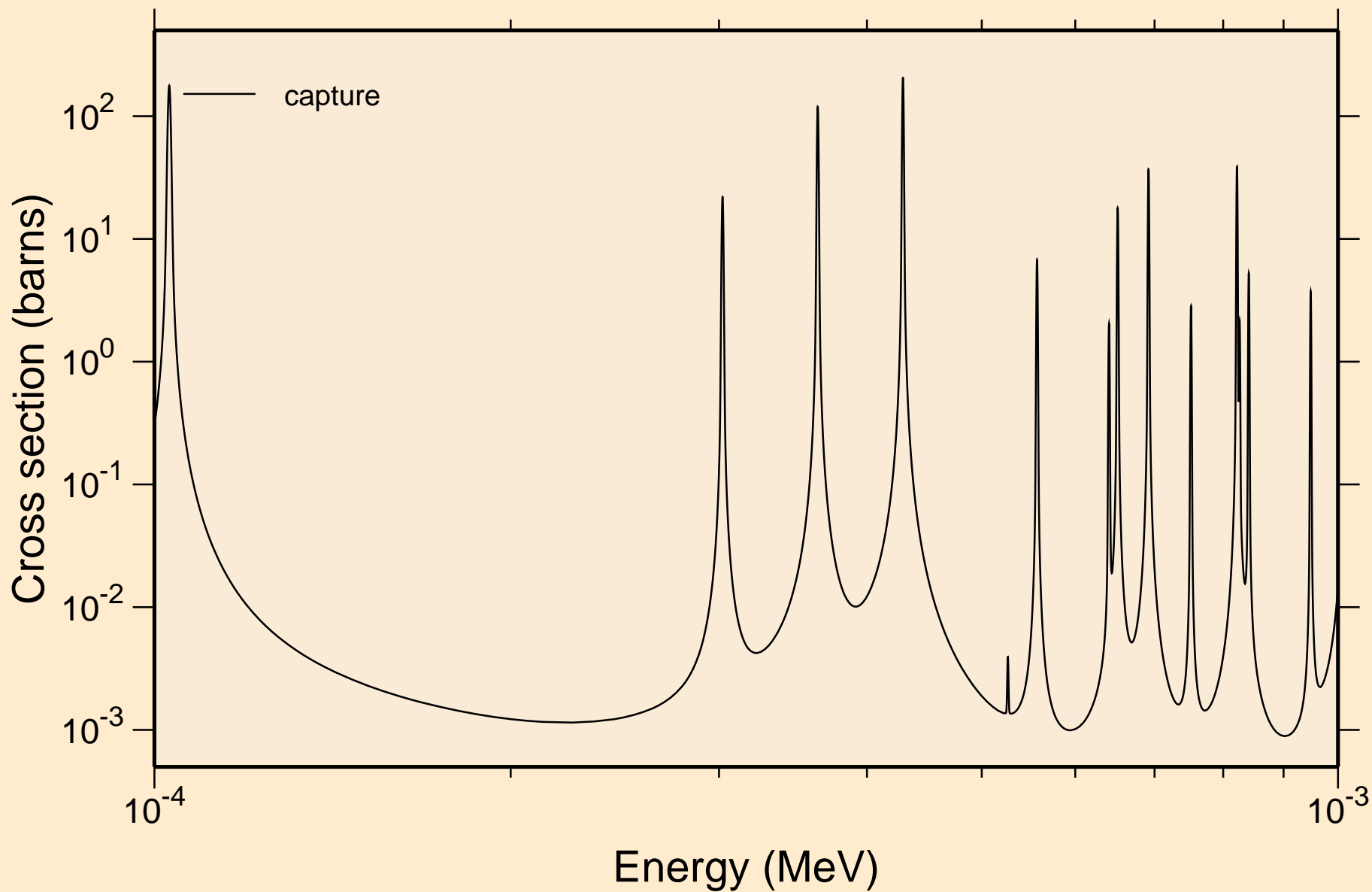


MAT=4513 ACE FILE PRODUCED AT NEA WITH NDEC  
resonance absorption cross sections

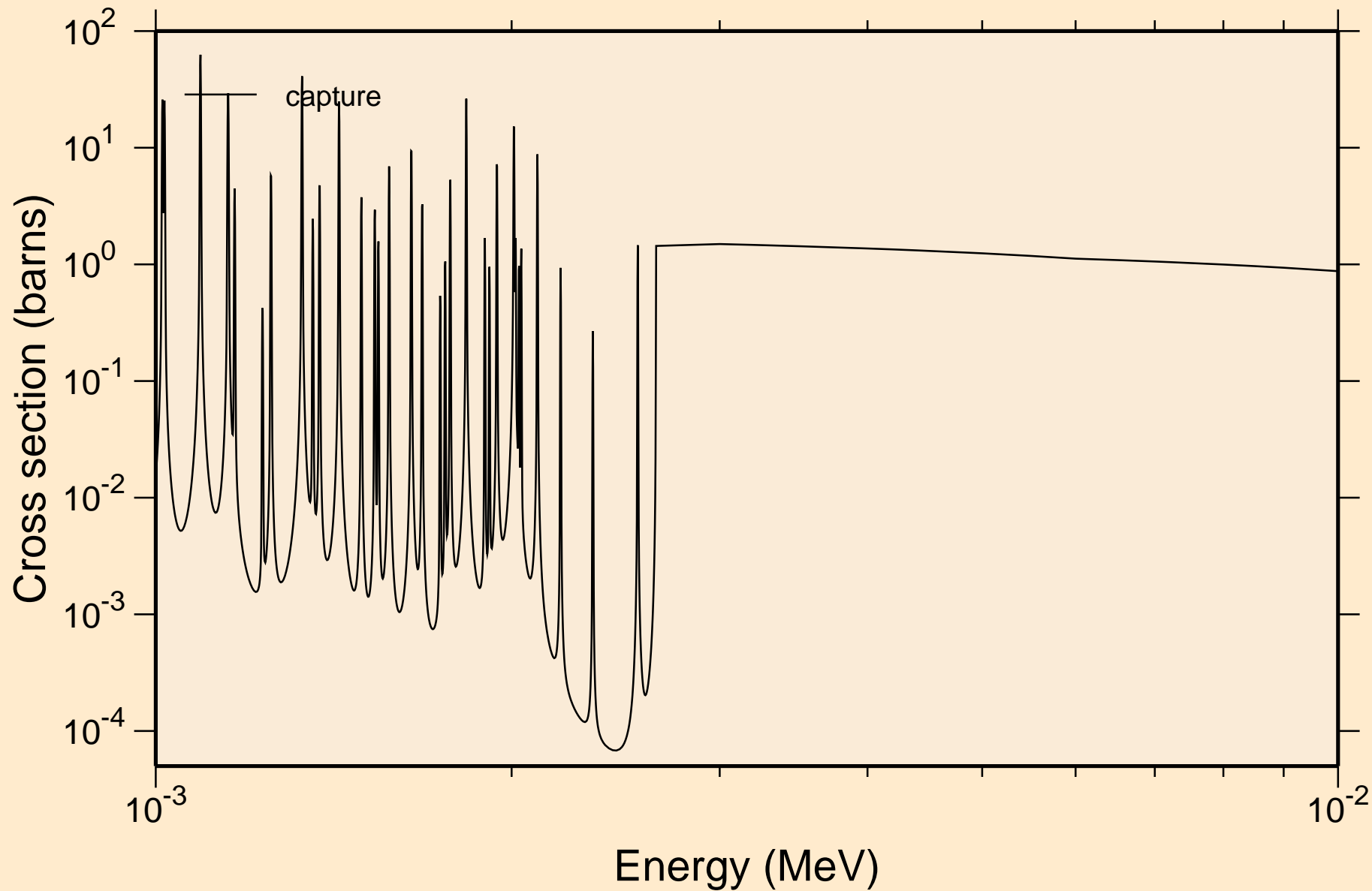




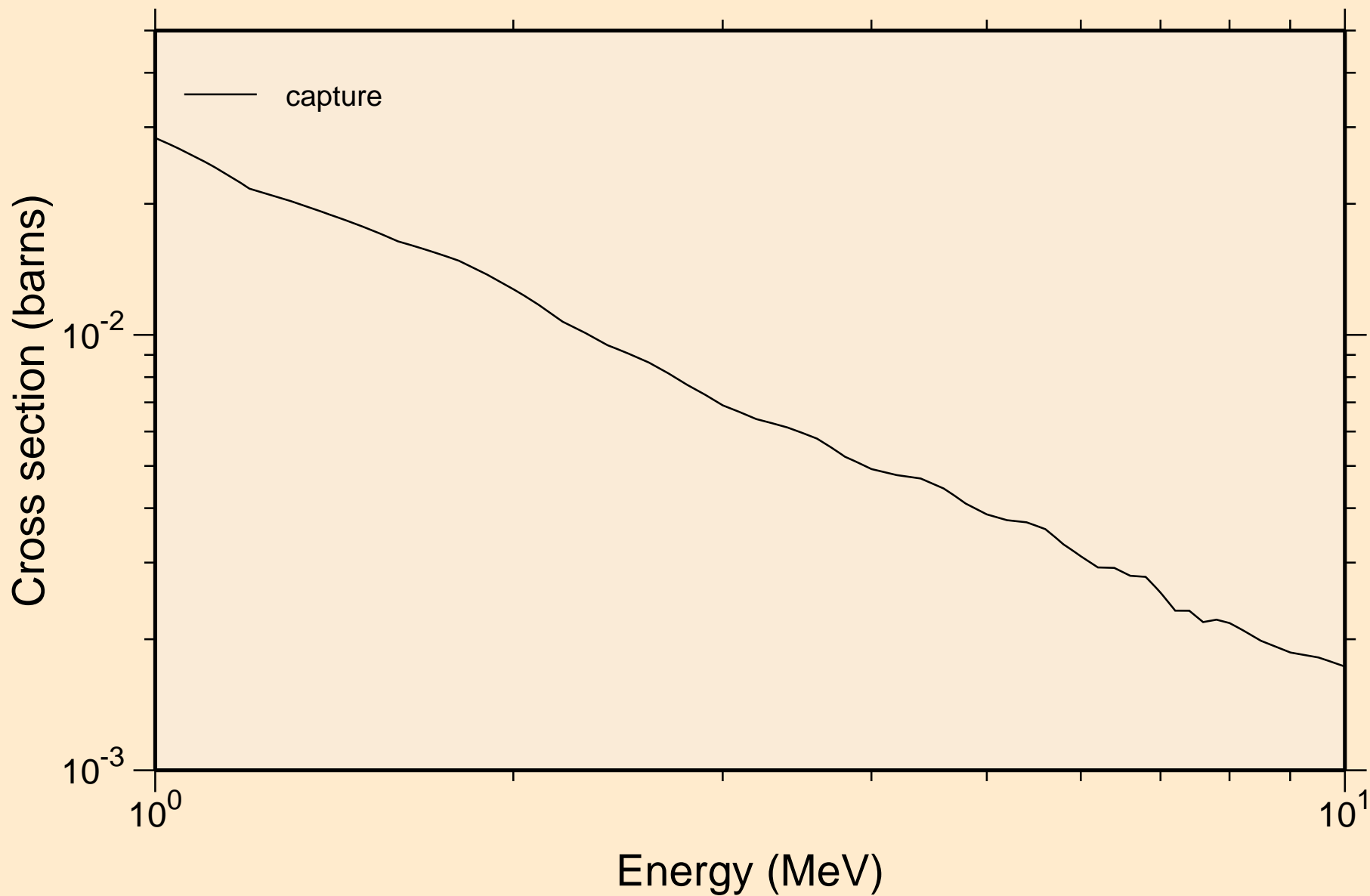
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resonance absorption cross sections



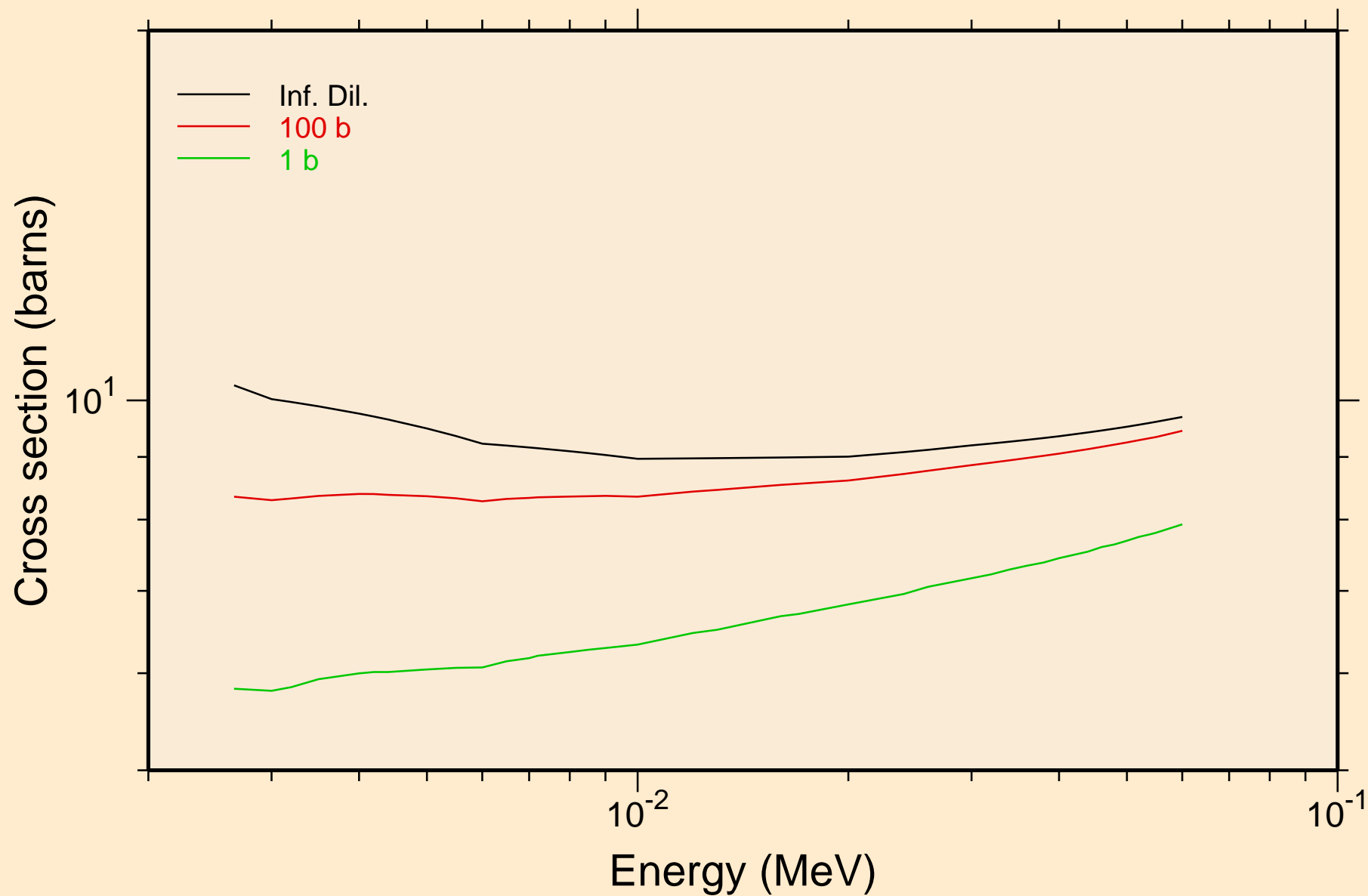
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resonance absorption cross sections



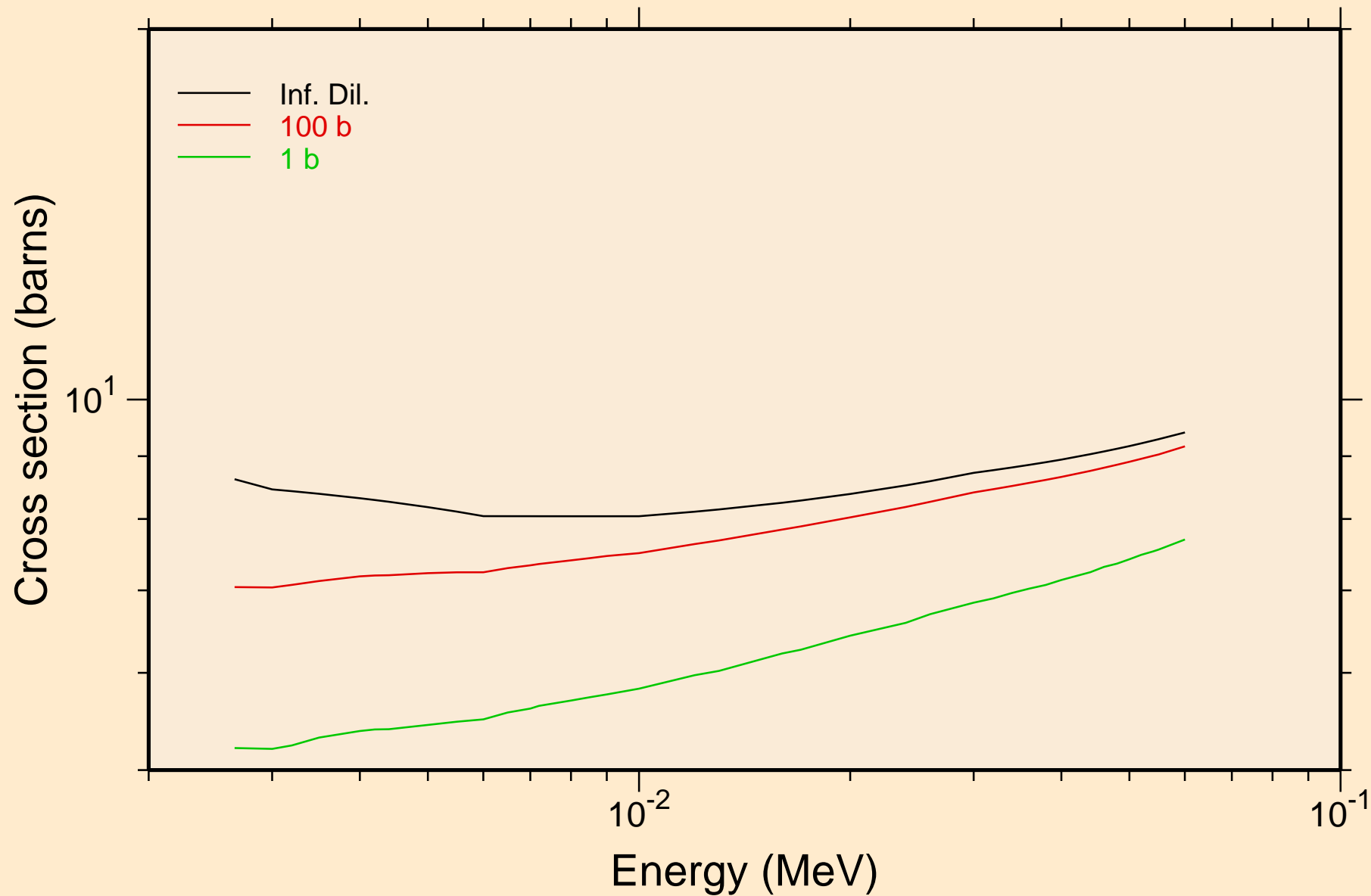
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resonance absorption cross sections



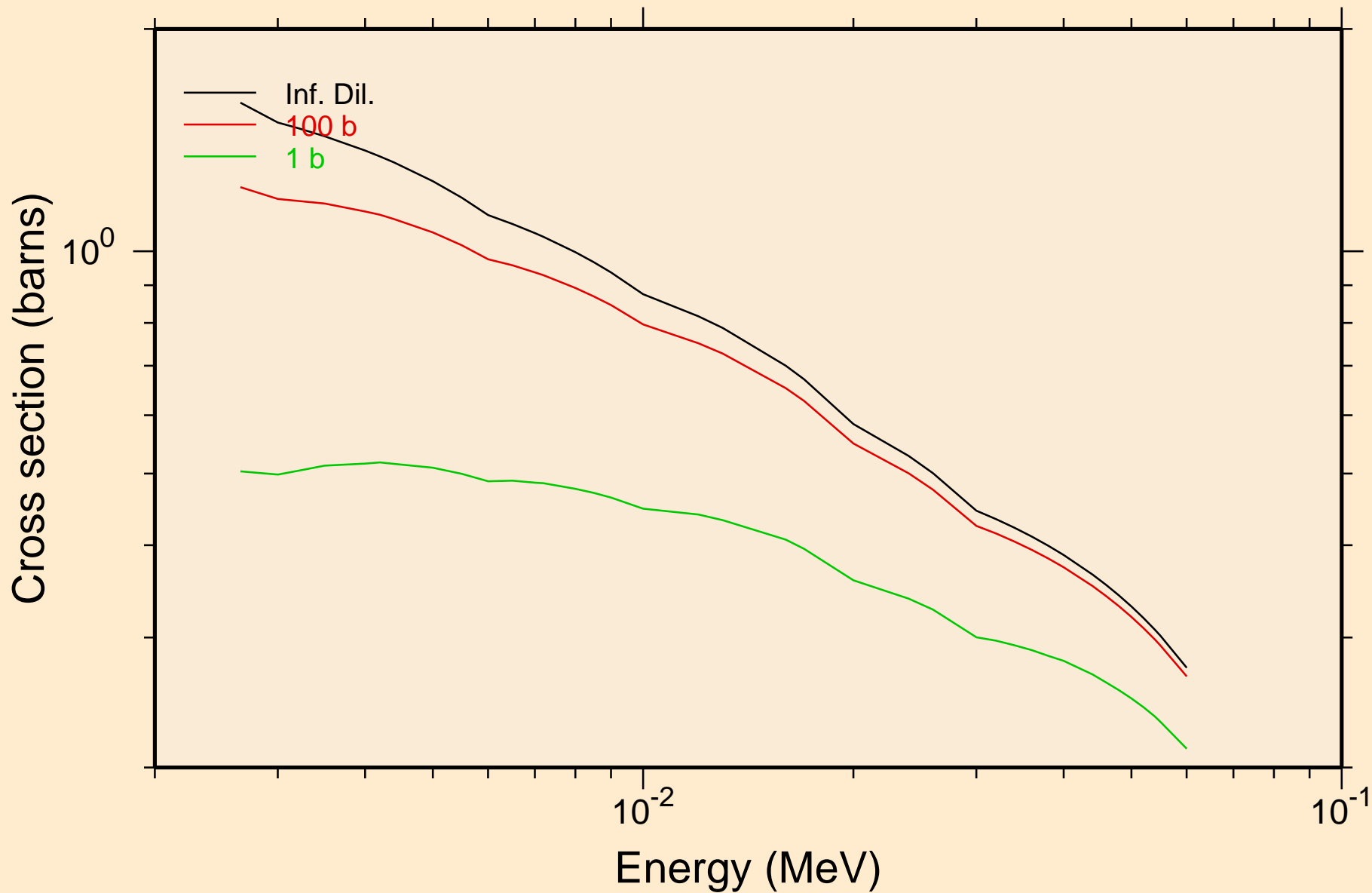
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UR total cross section



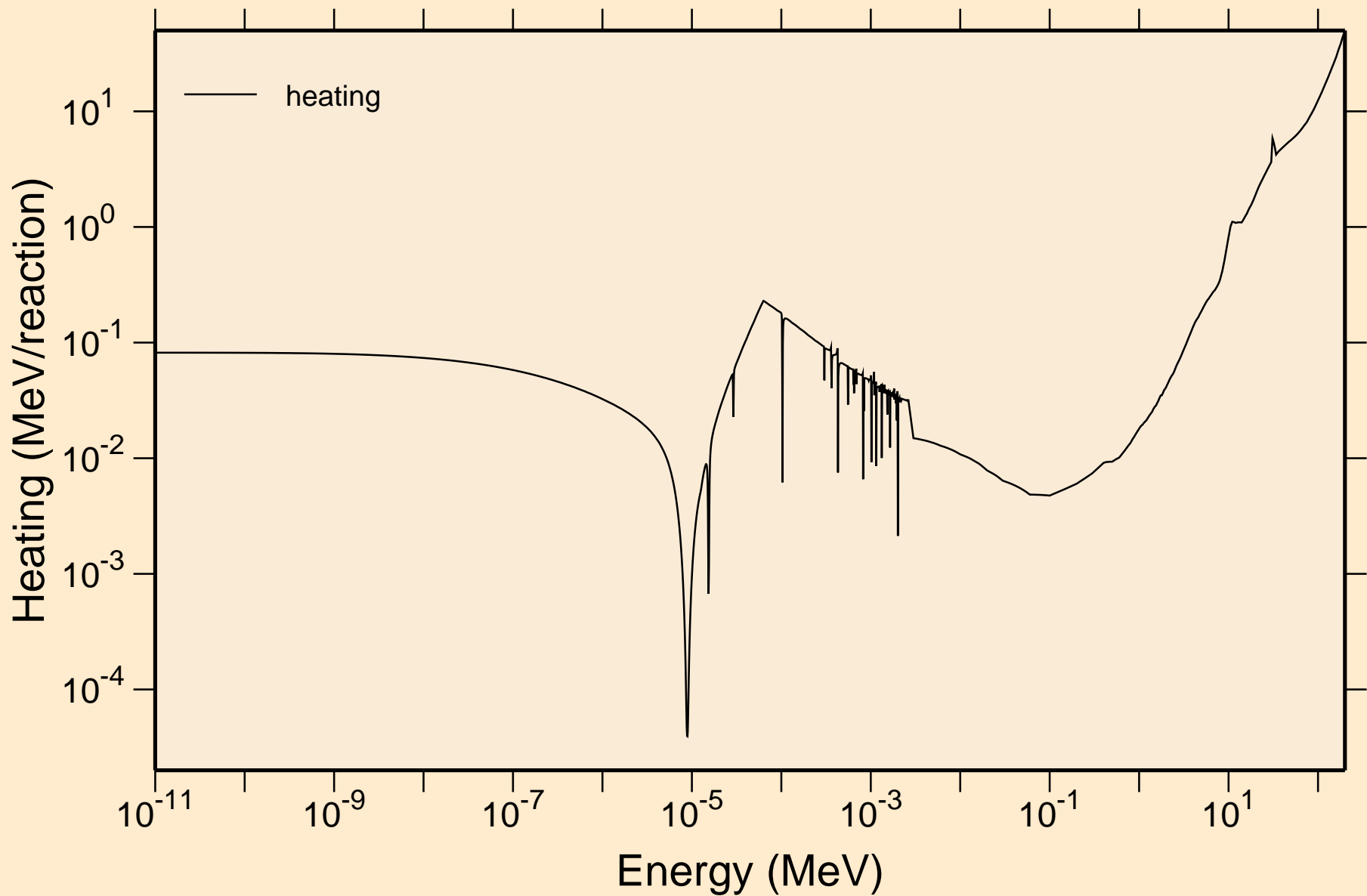
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UR elastic cross section



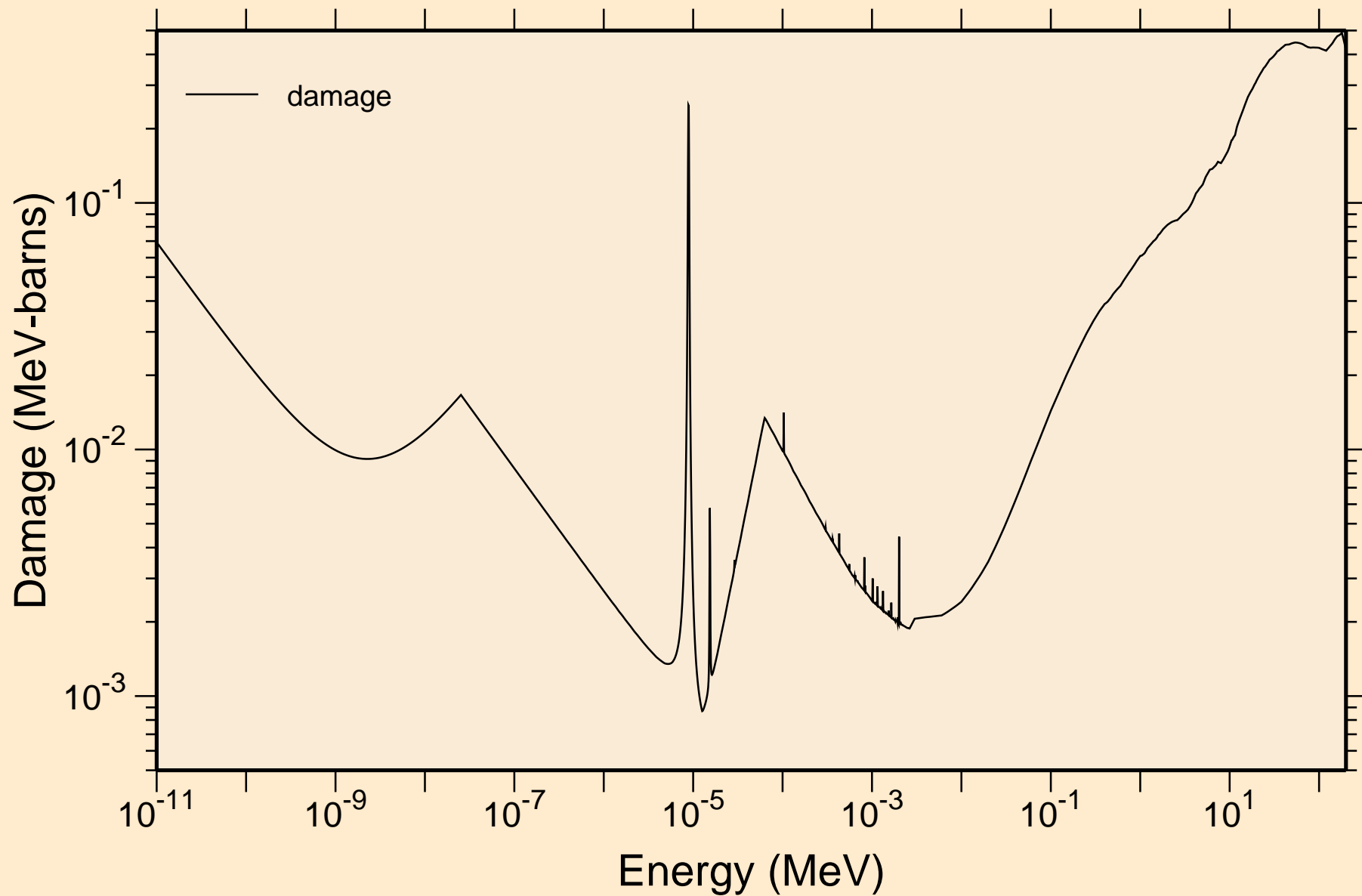
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UR capture cross section



MAT=4513 ACE FILE PRODUCED AT NEA WITH NDEC  
Heating

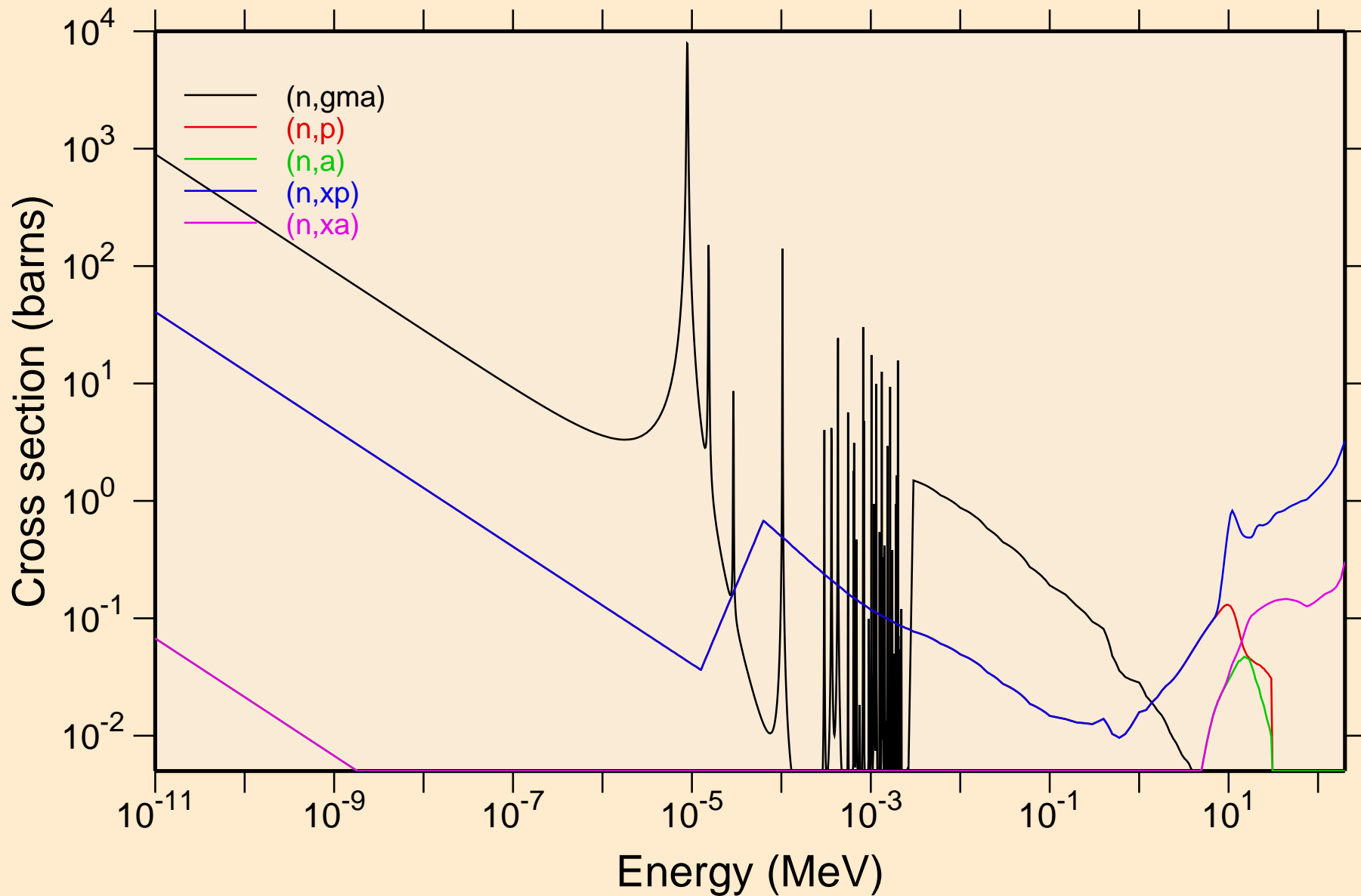


MAT=4513 ACE FILE PRODUCED AT NEA WITH NDEC  
Damage



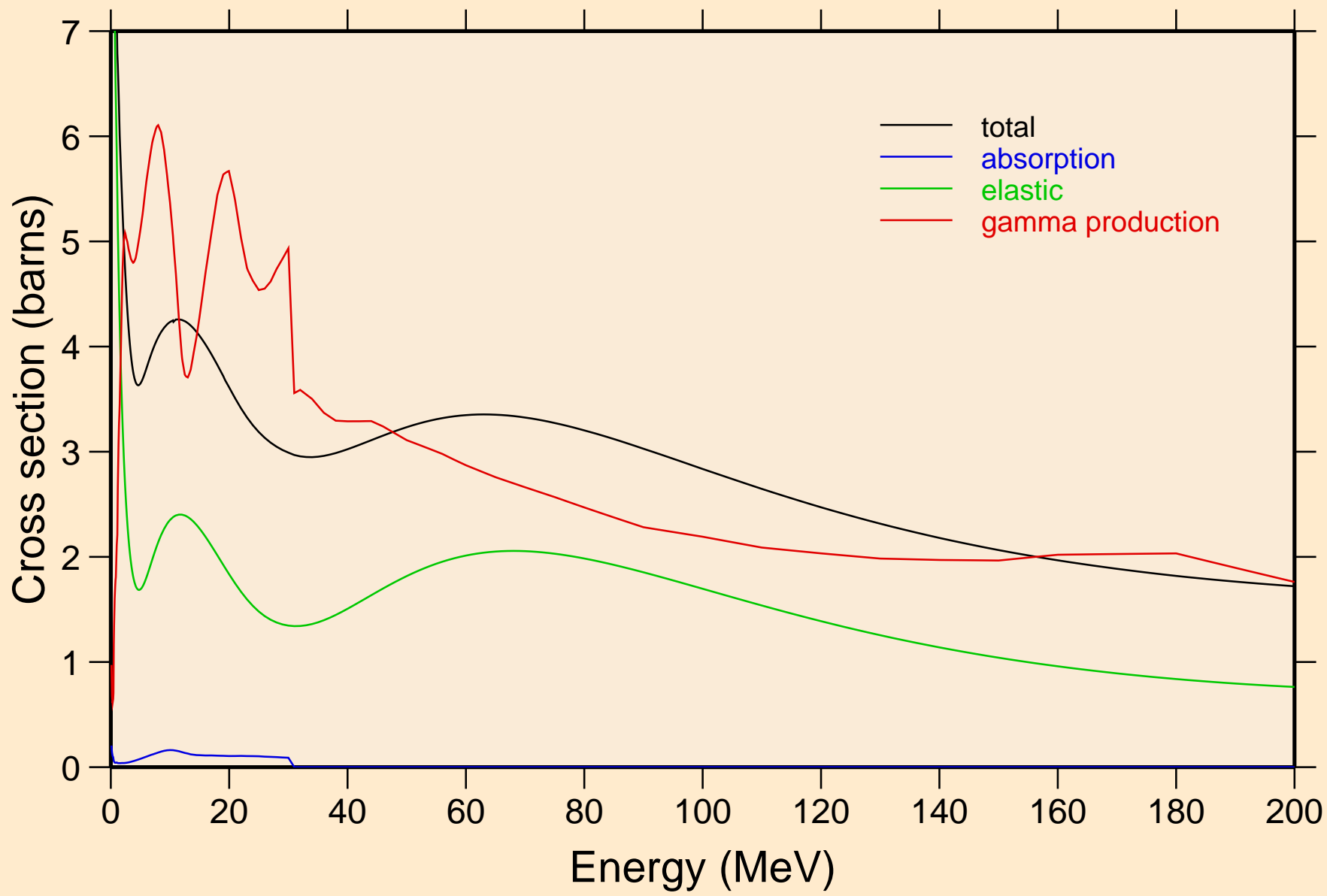


MAT=4513 ACE FILE PRODUCED AT NEA WITH NDEC  
Non-threshold reactions

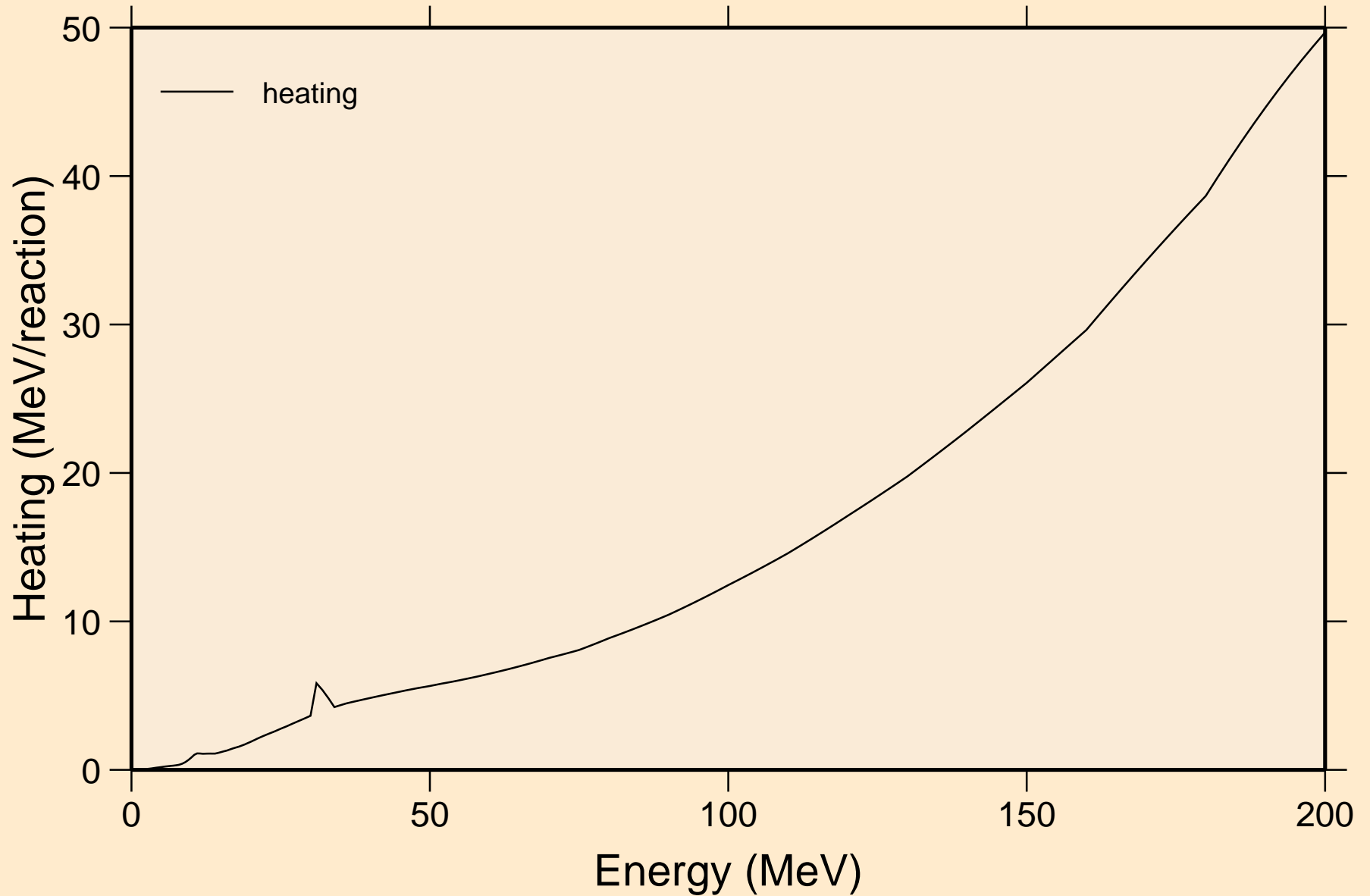


# MAT=4513 ACE FILE PRODUCED AT NEA WITH NDEC

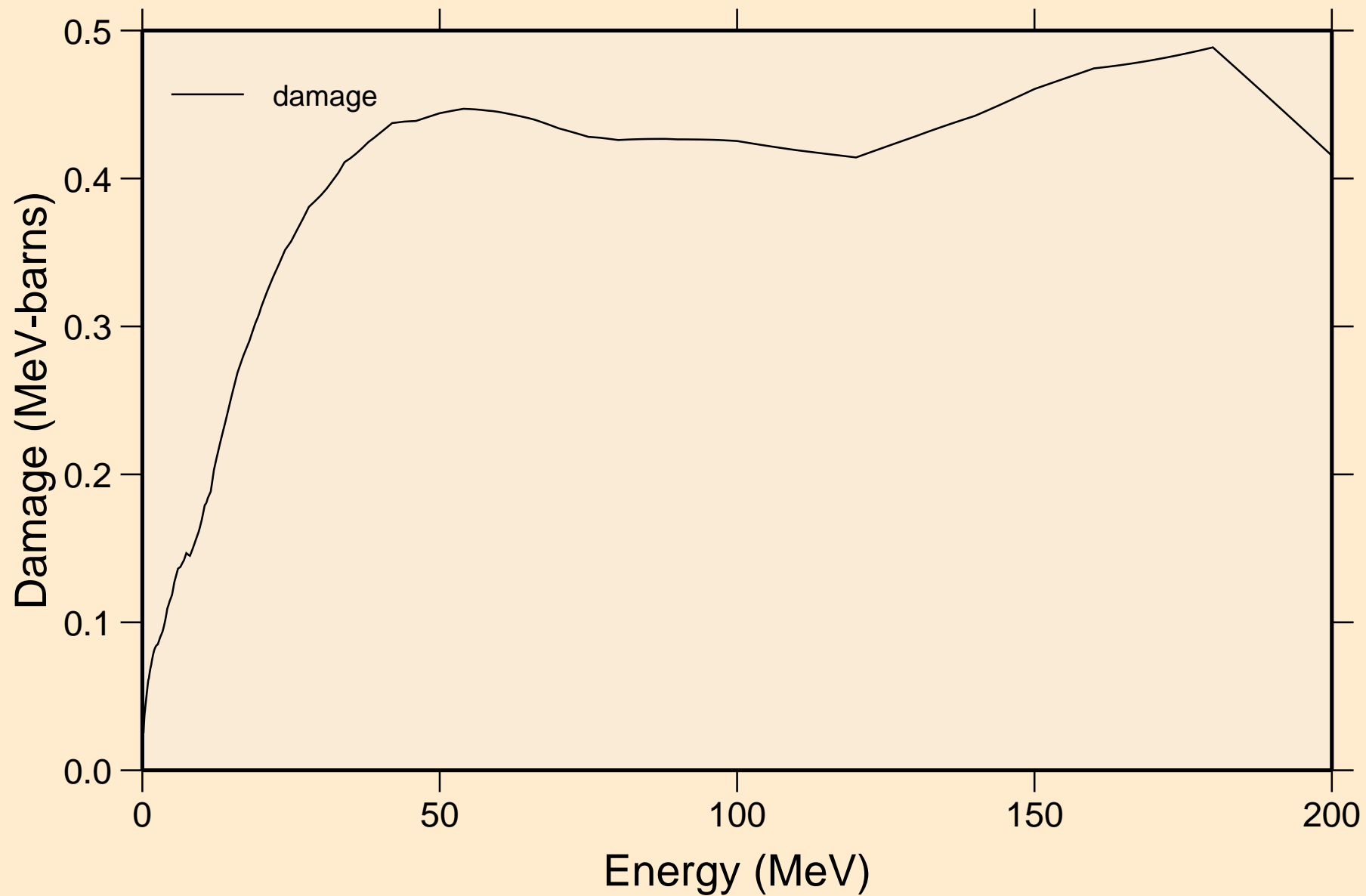
## Principal cross sections



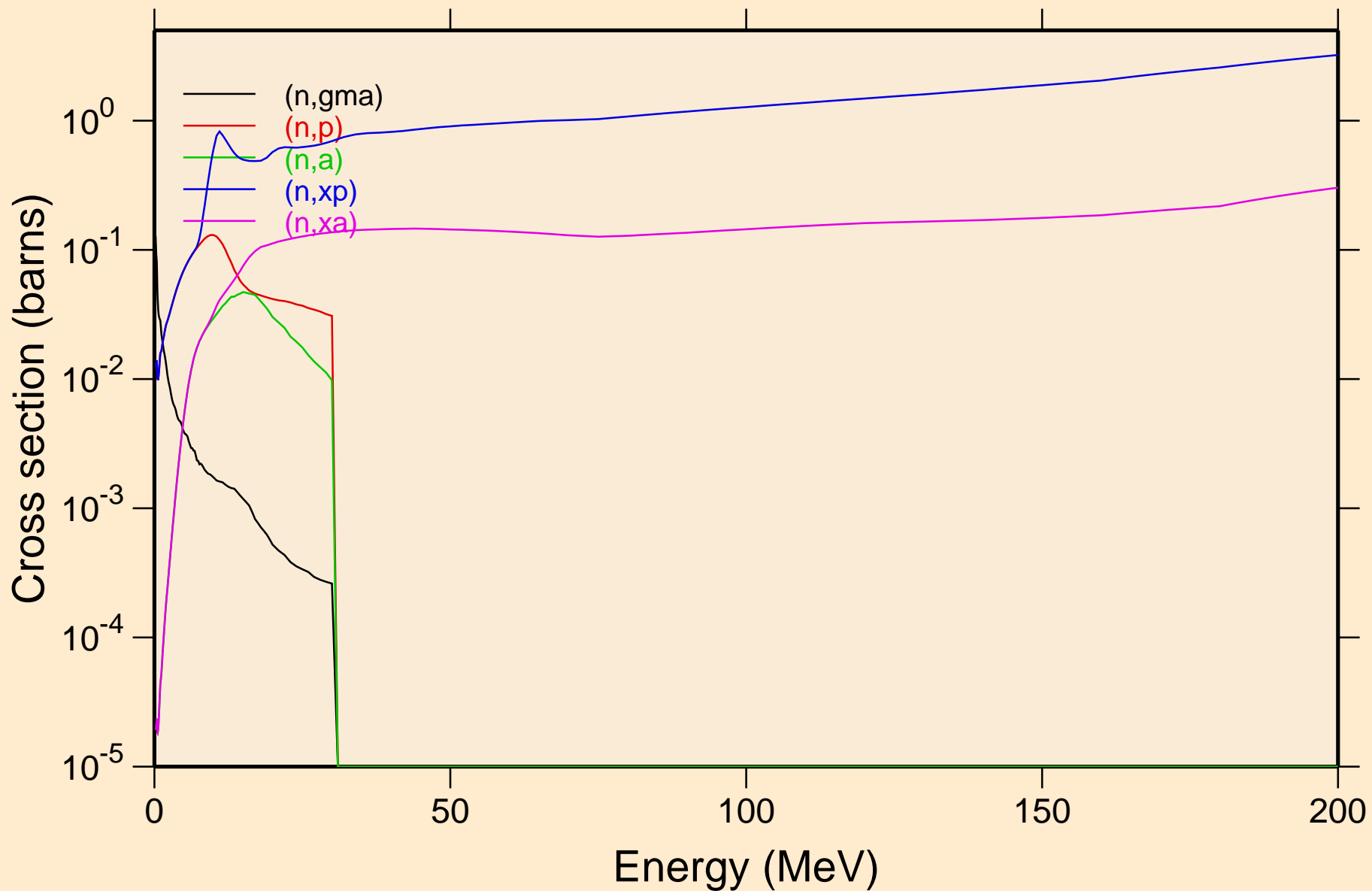
MAT=4513 ACE FILE PRODUCED AT NEA WITH NDEC  
Heating



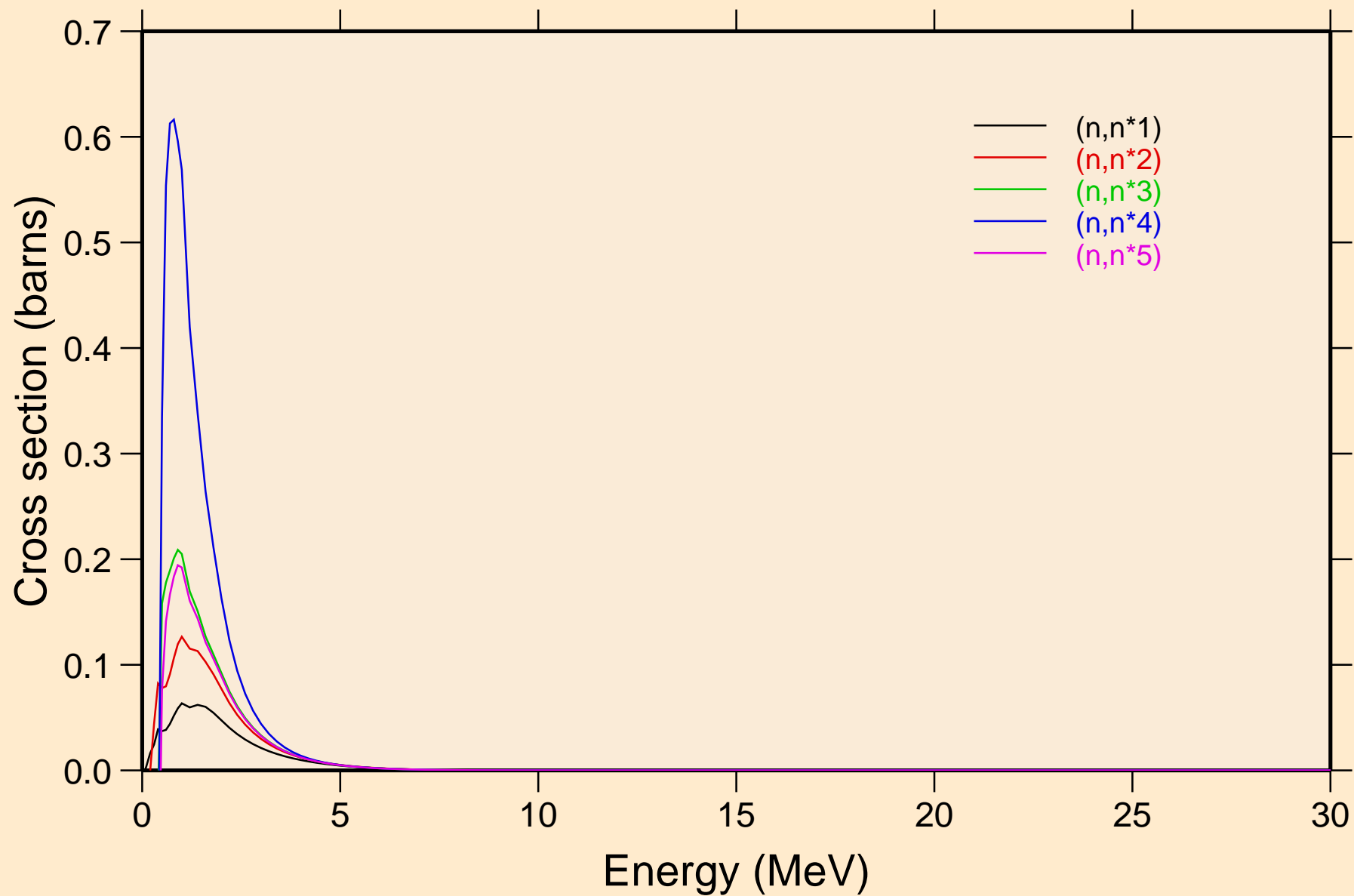
MAT=4513 ACE FILE PRODUCED AT NEA WITH NDEC  
Damage



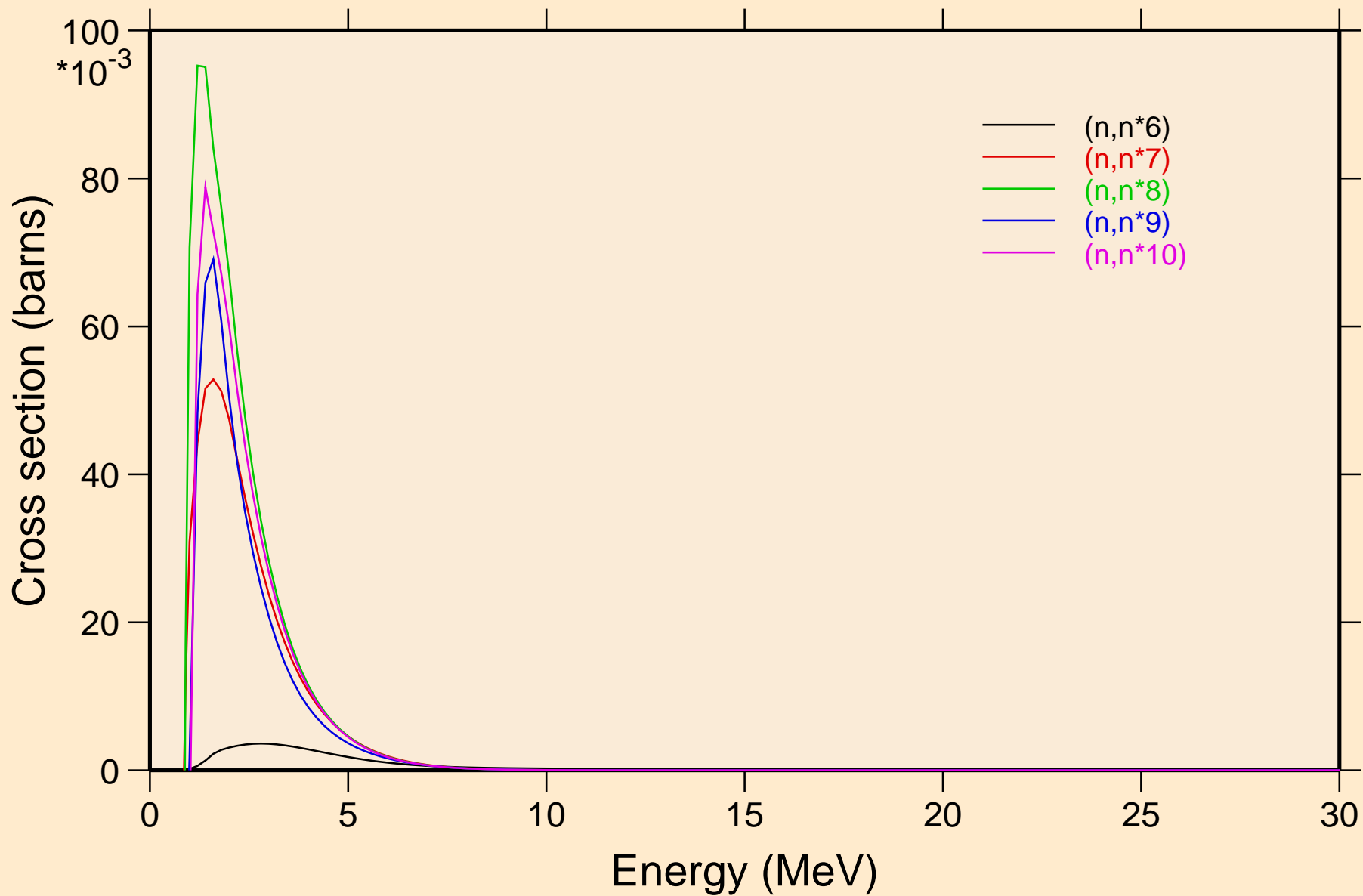
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Non-threshold reactions



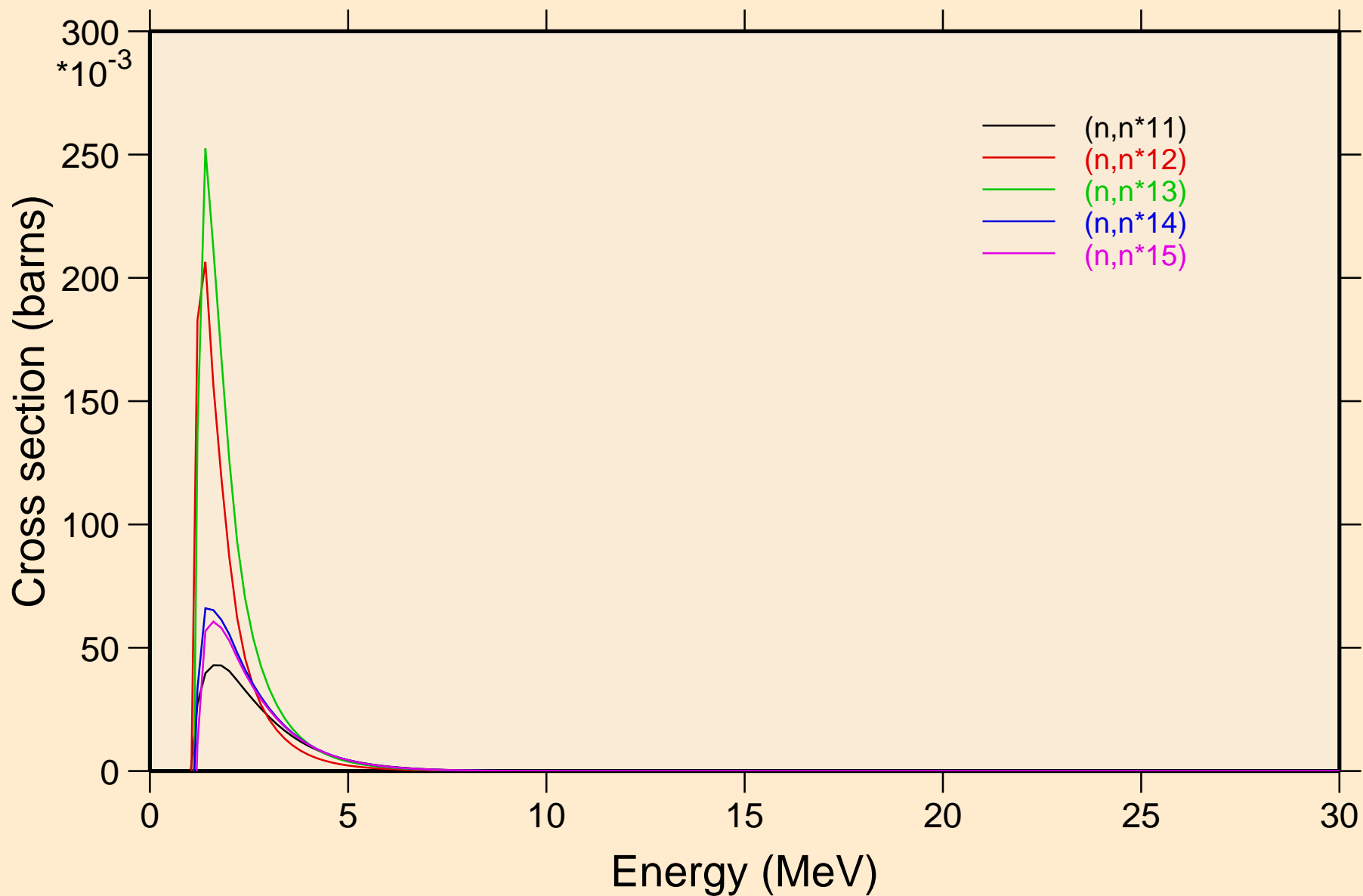
MAT=4513 ACE FILE PRODUCED AT NEA WITH NDEC  
Inelastic levels



MAT=4513 ACE FILE PRODUCED AT NEA WITH NDEC  
Inelastic levels

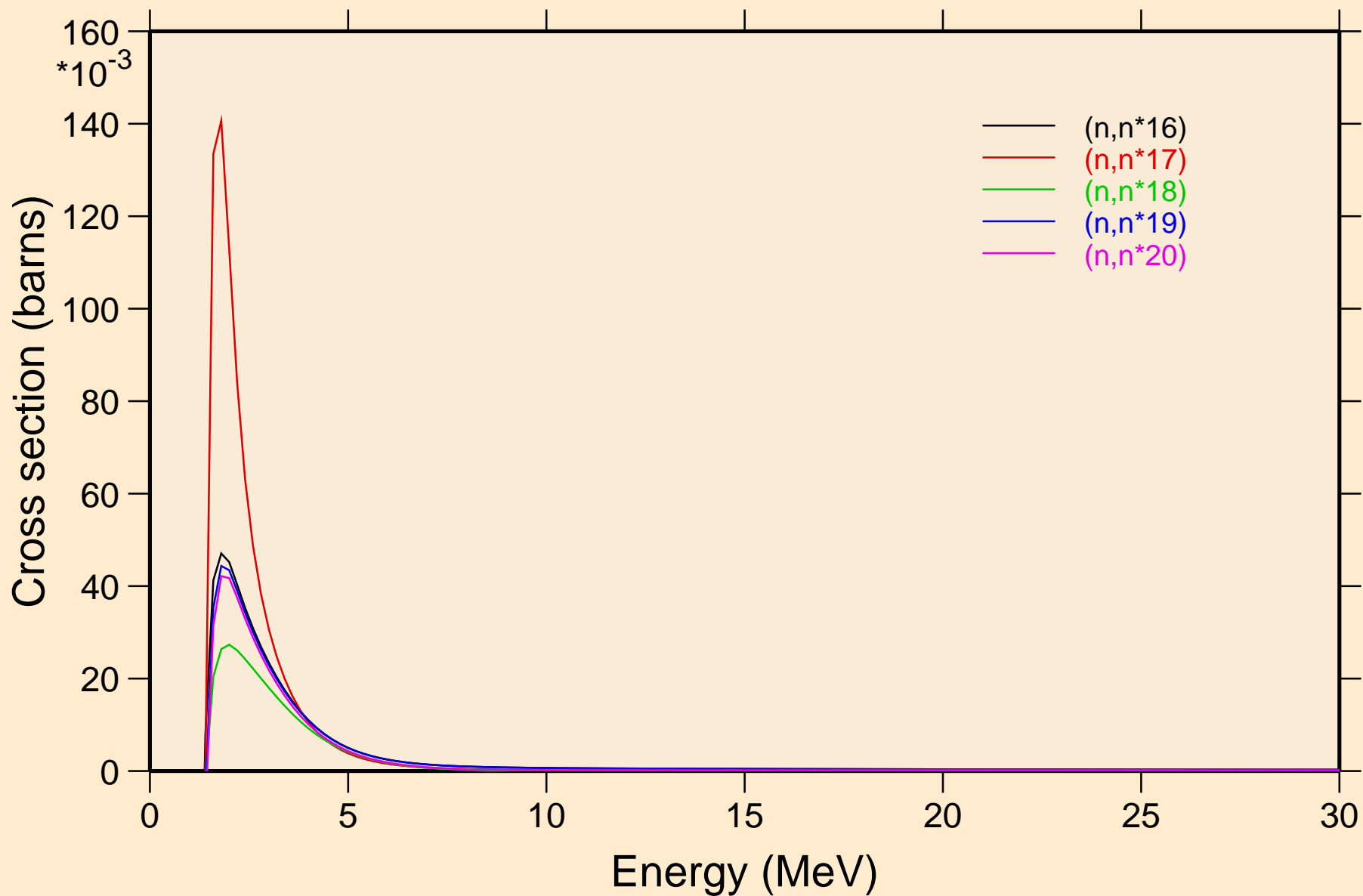


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Inelastic levels

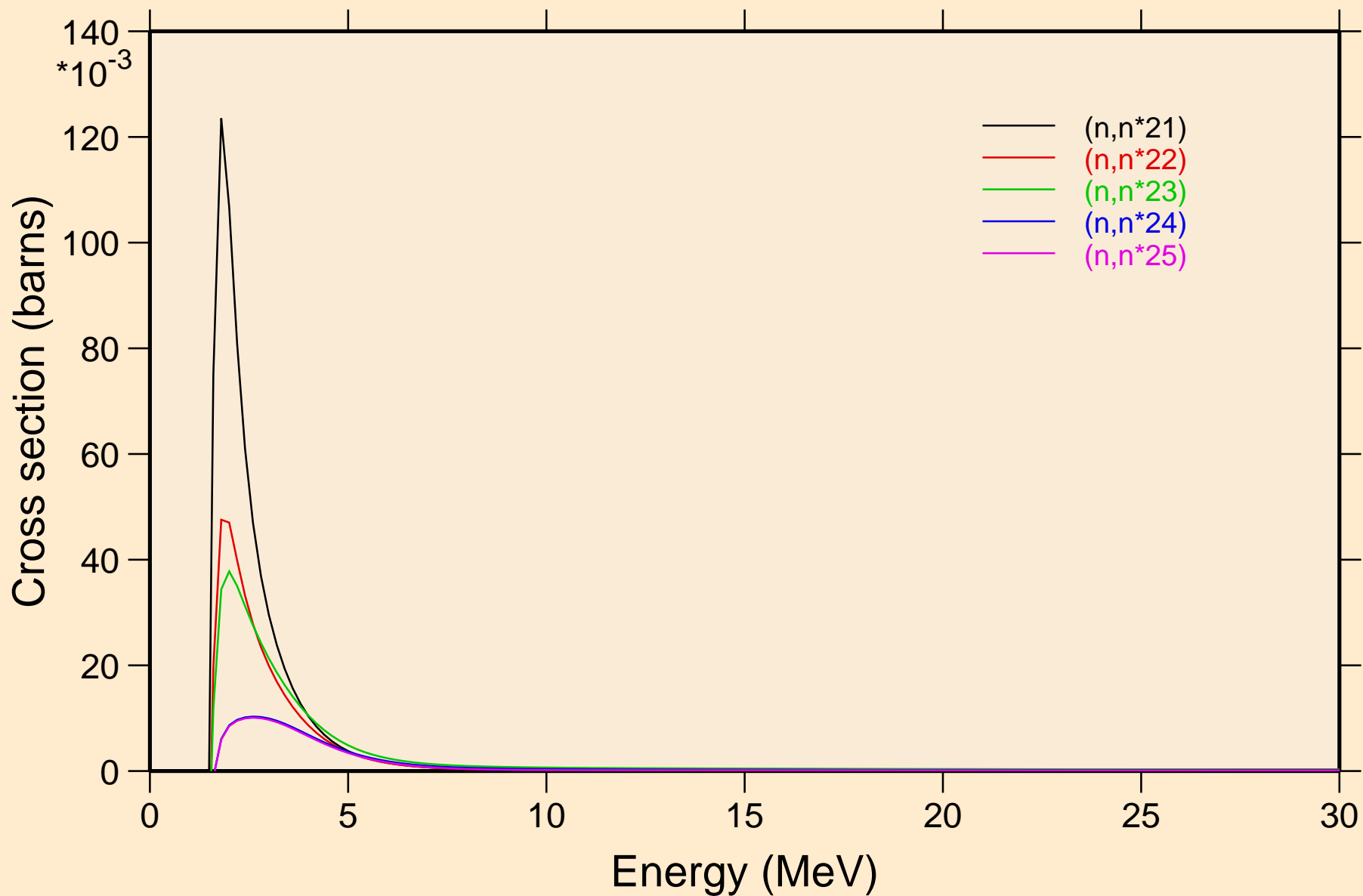




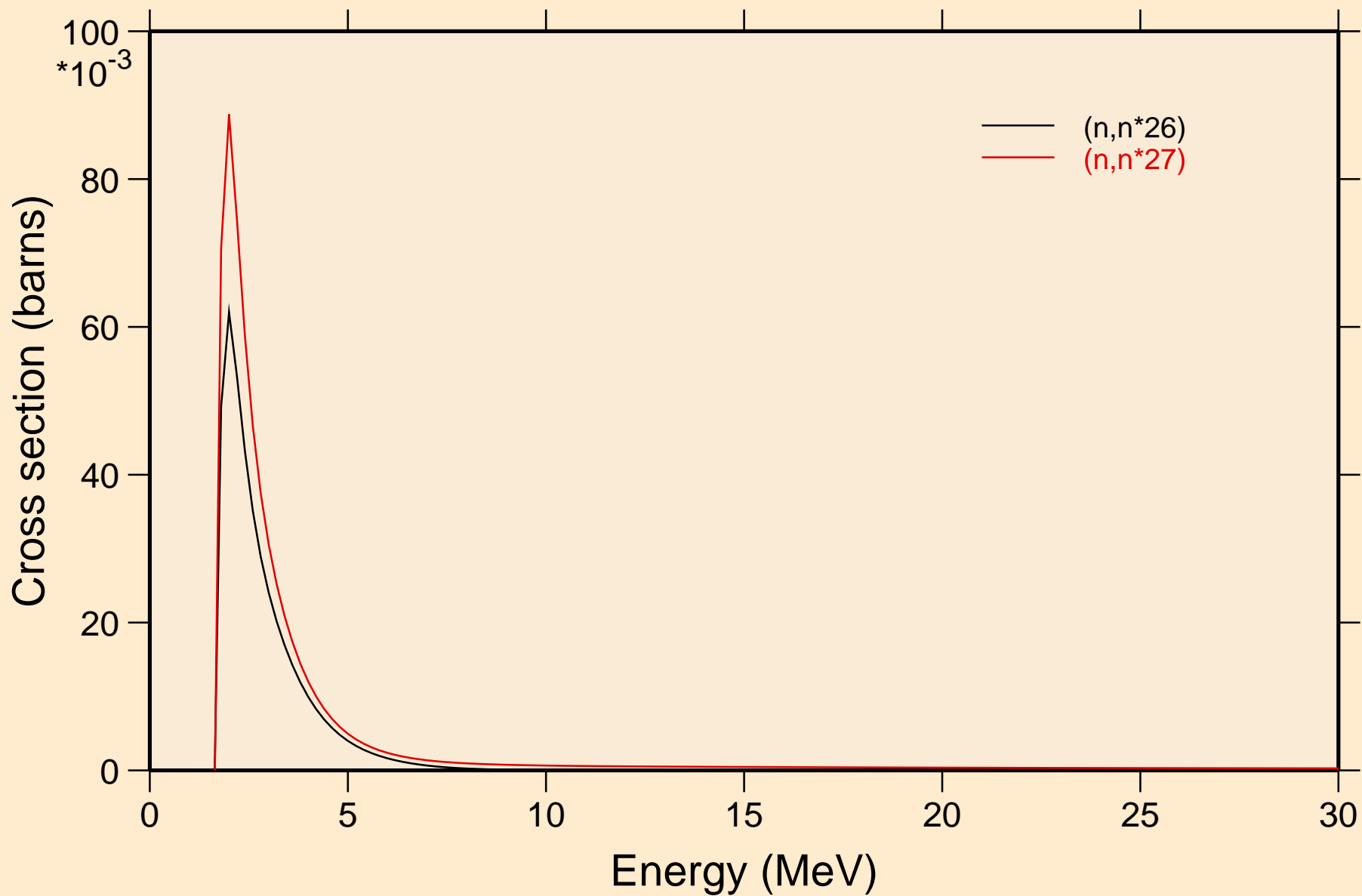
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Inelastic levels



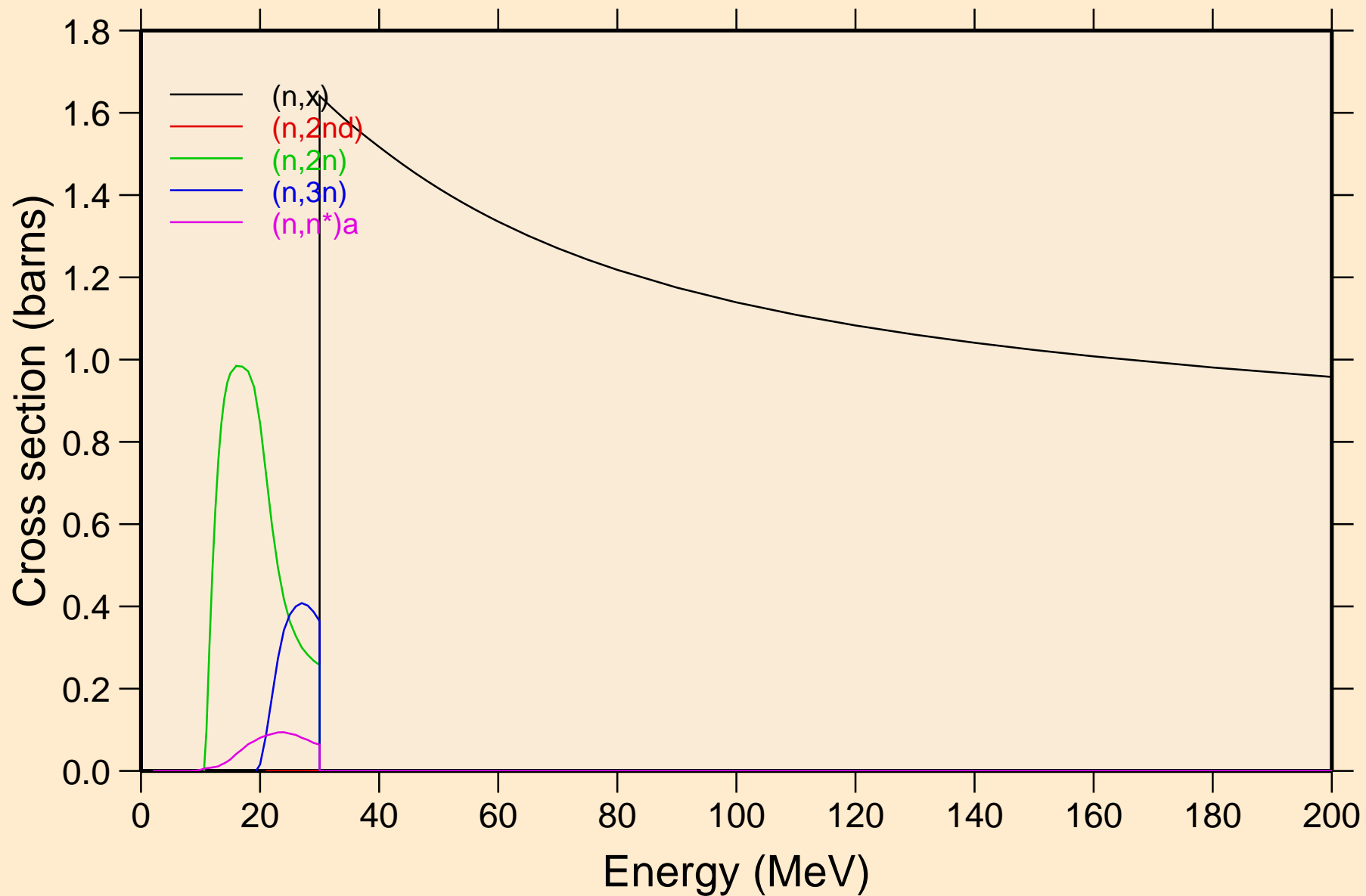
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Inelastic levels



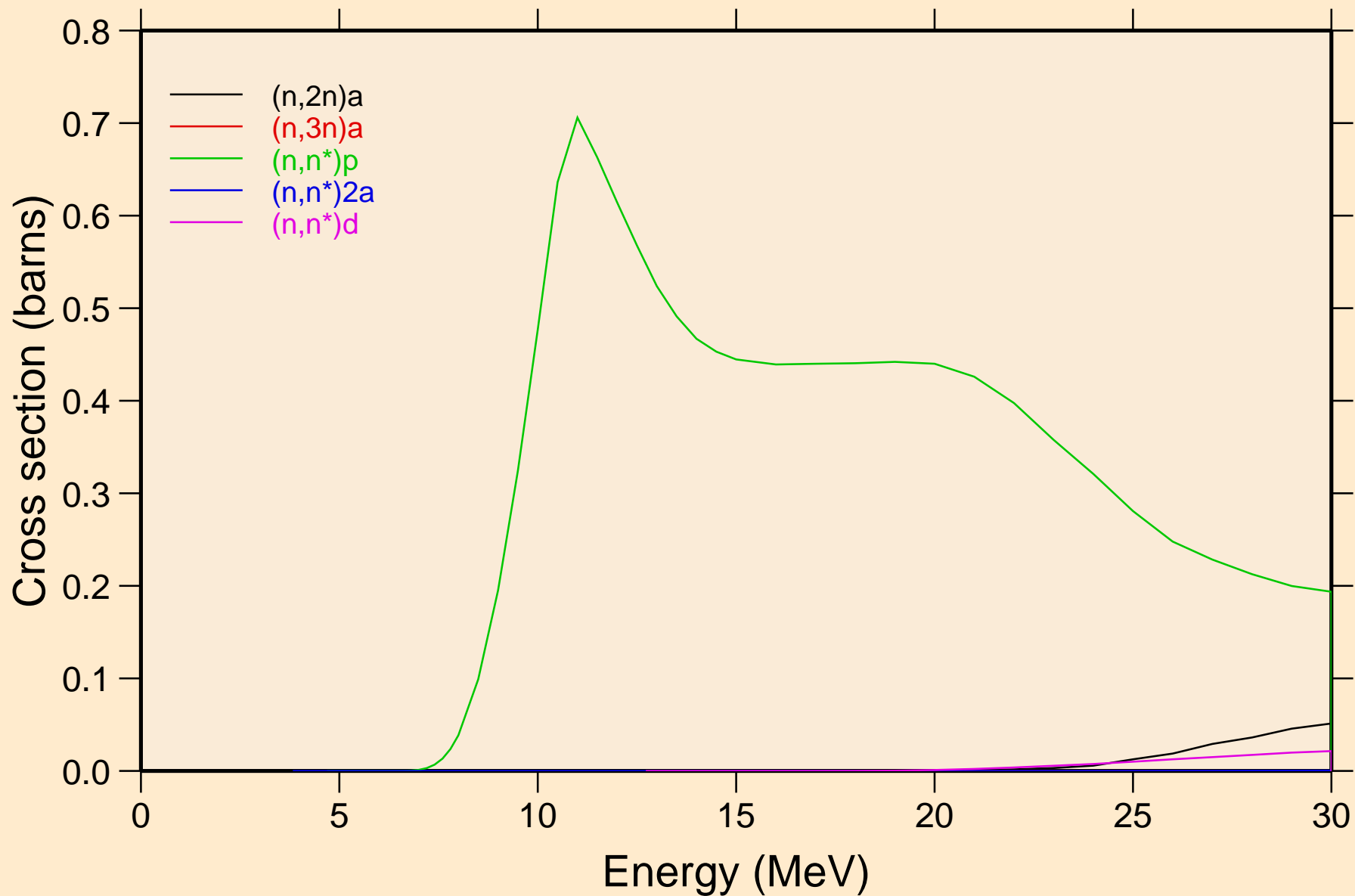
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Inelastic levels



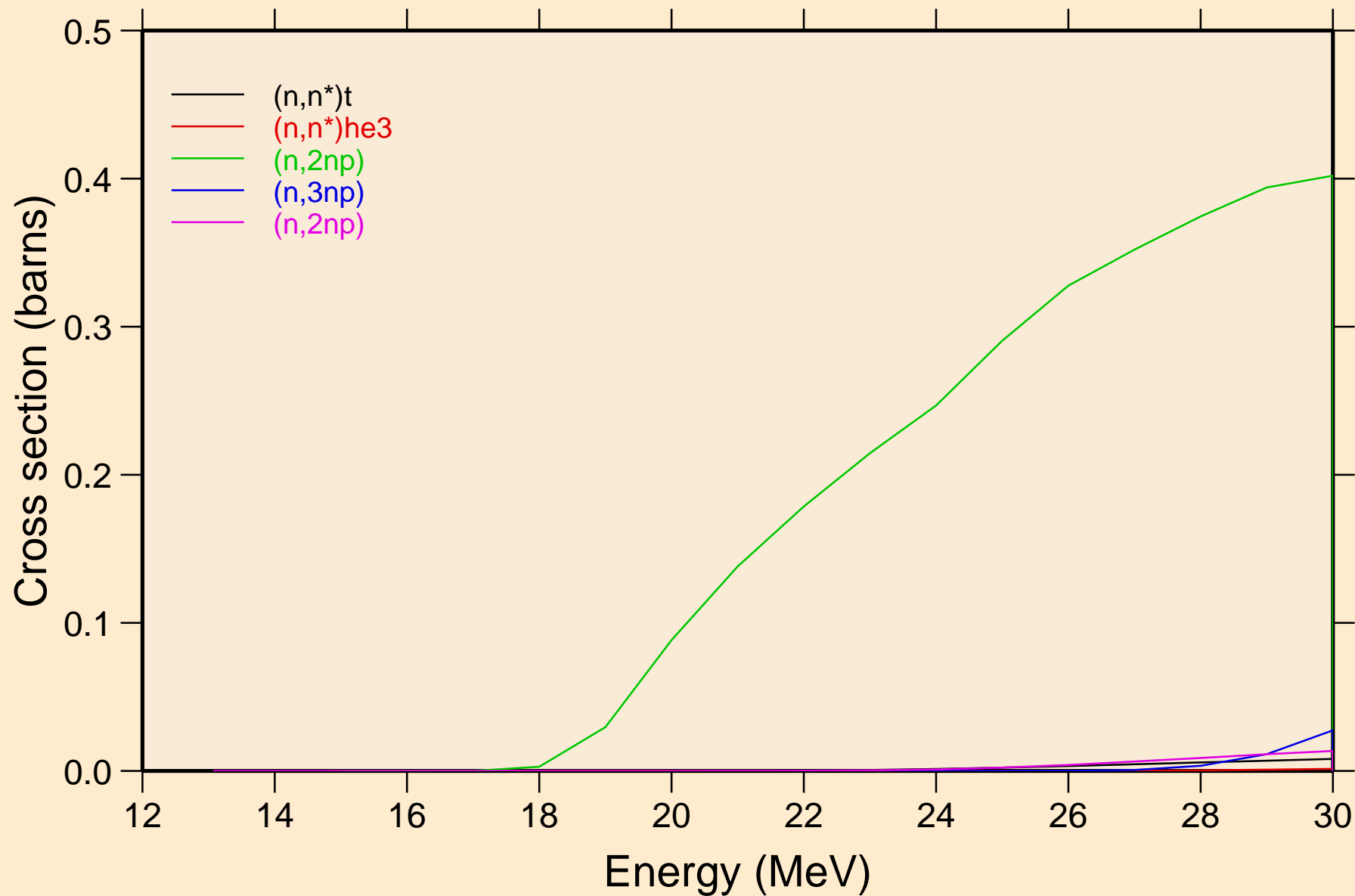
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Threshold reactions



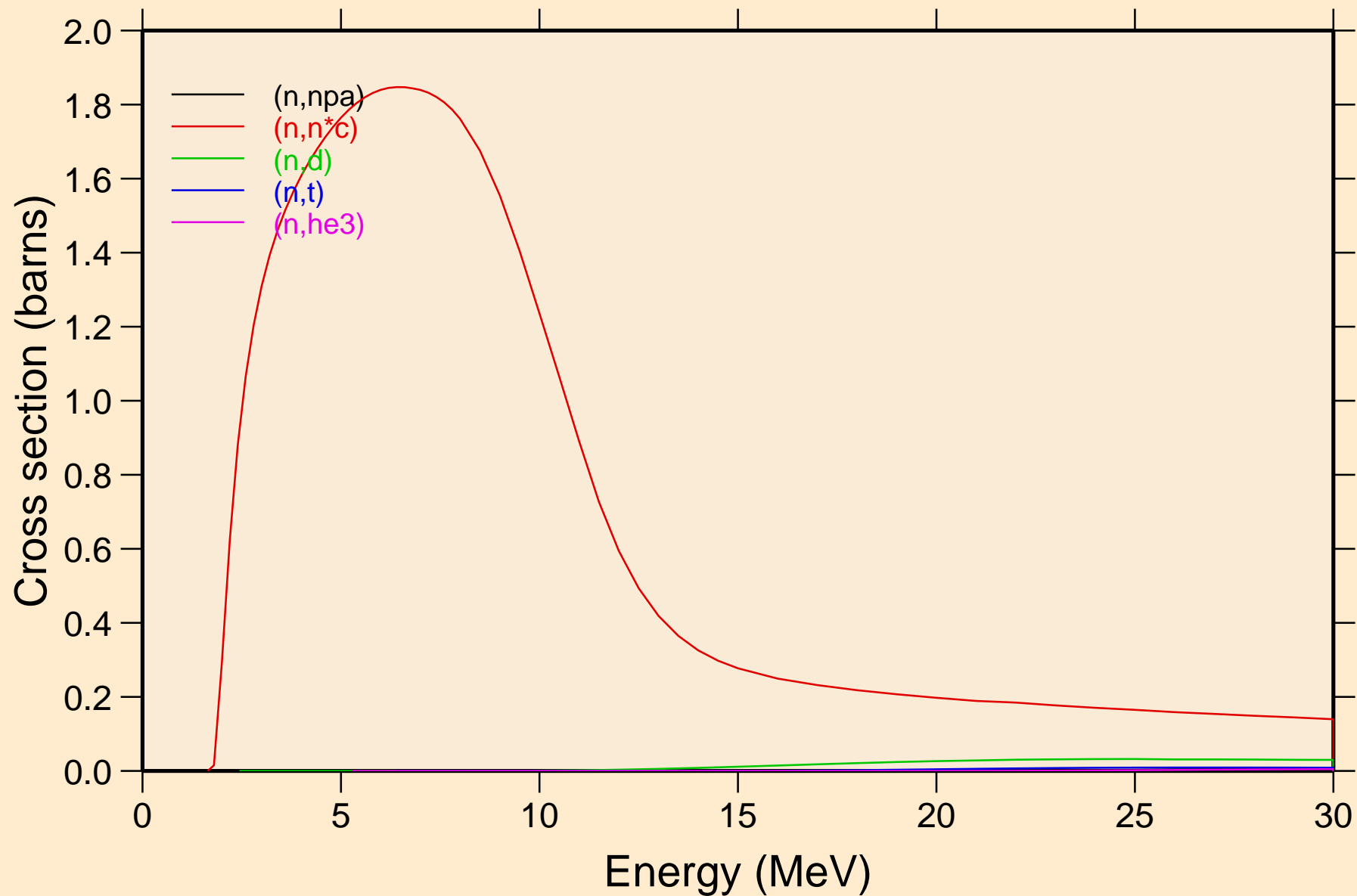
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Threshold reactions



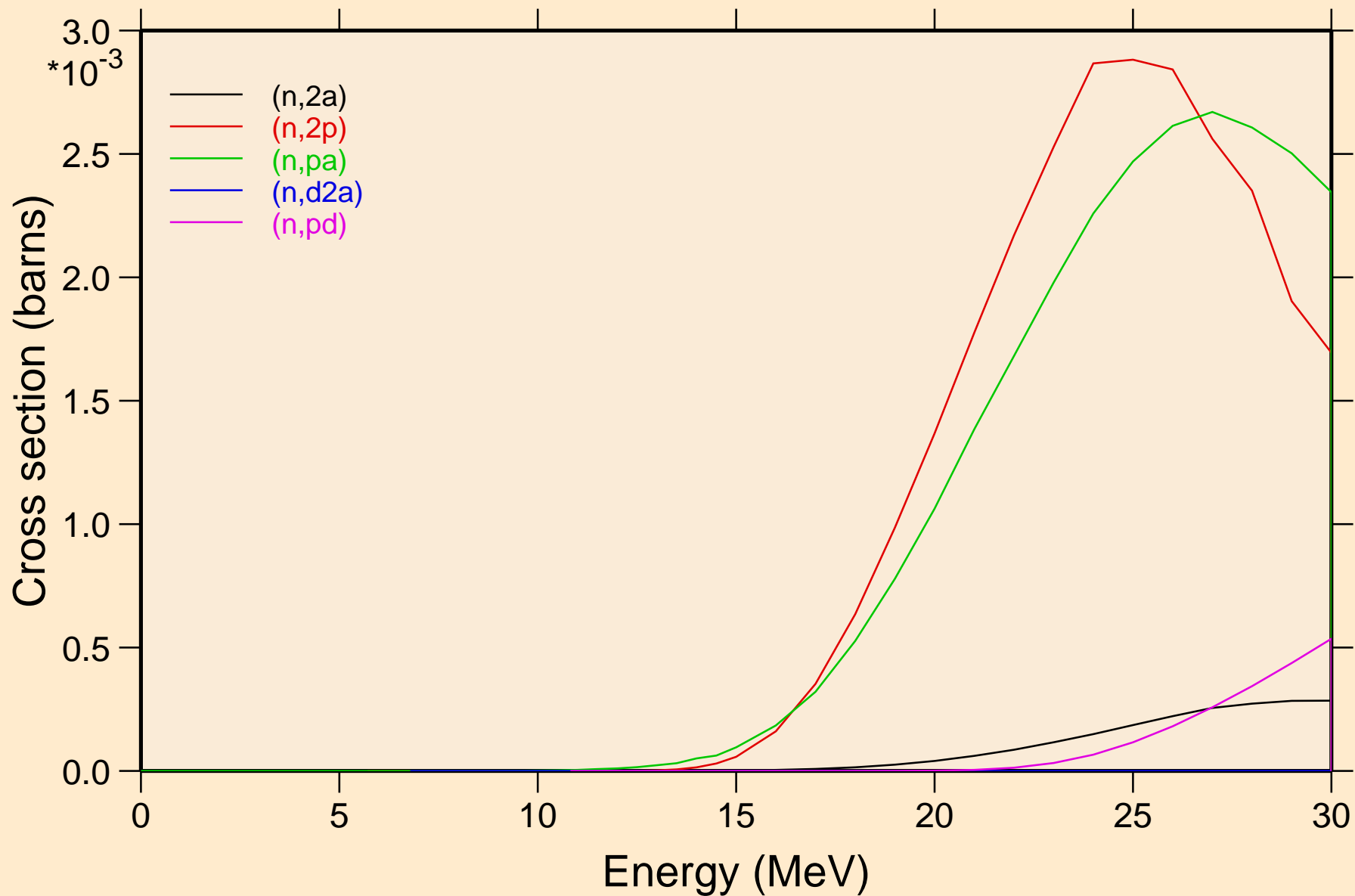
MAT=4513 ACE FILE PRODUCED AT NEA WITH NDEC  
Threshold reactions



MAT=4513 ACE FILE PRODUCED AT NEA WITH NDEC  
Threshold reactions

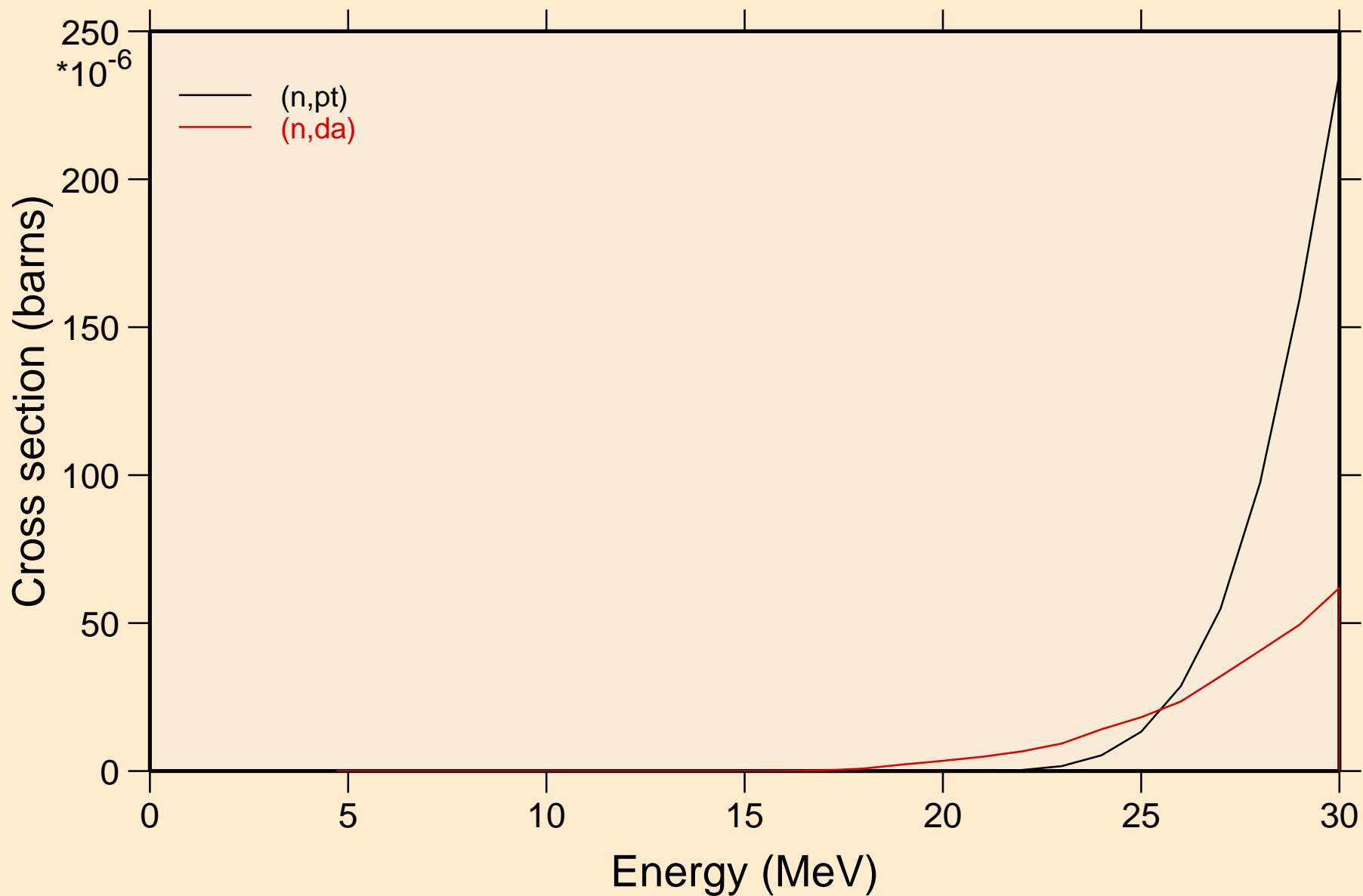


MAT=4513 ACE FILE PRODUCED AT NEA WITH NDEC  
Threshold reactions

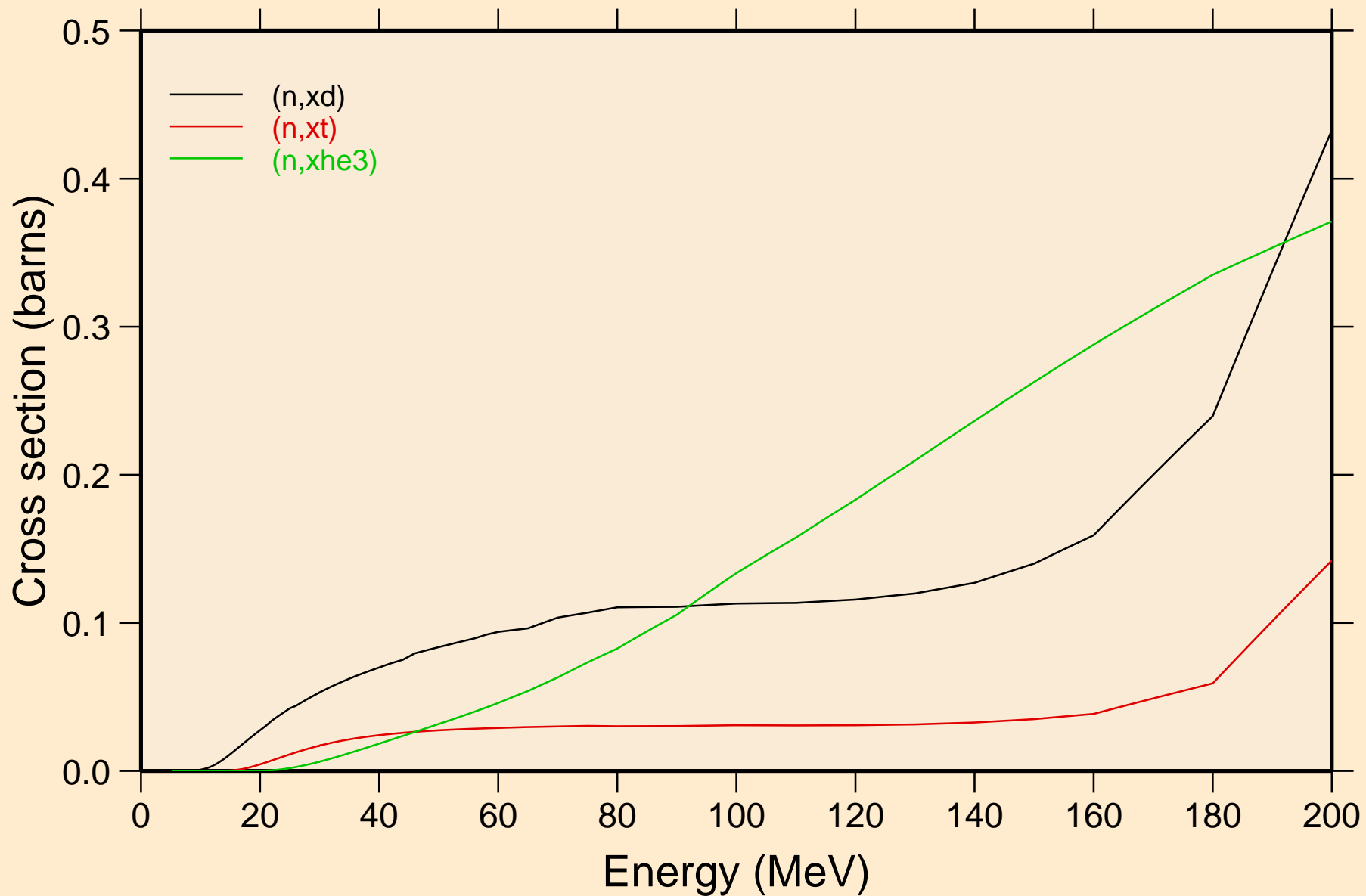




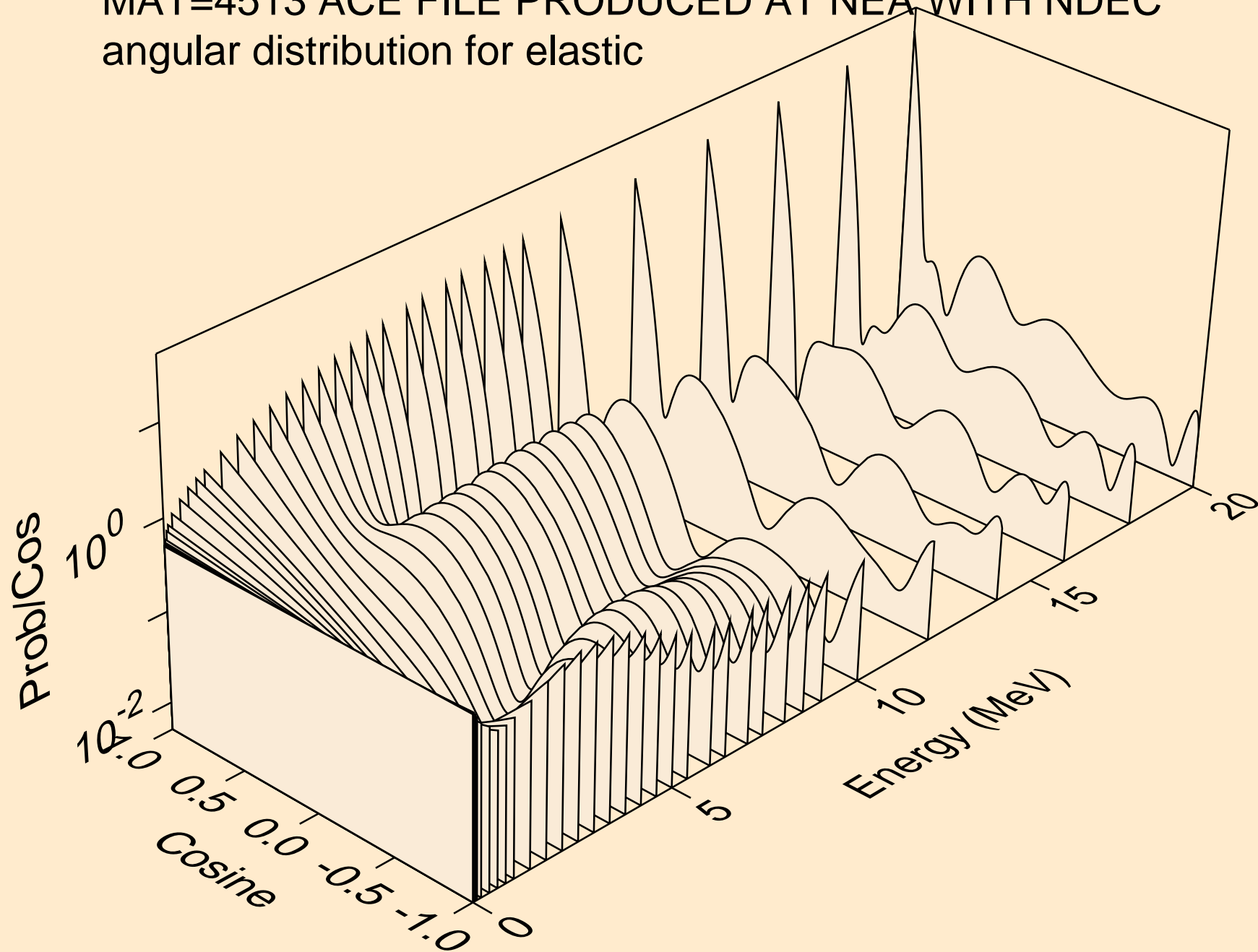
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Threshold reactions



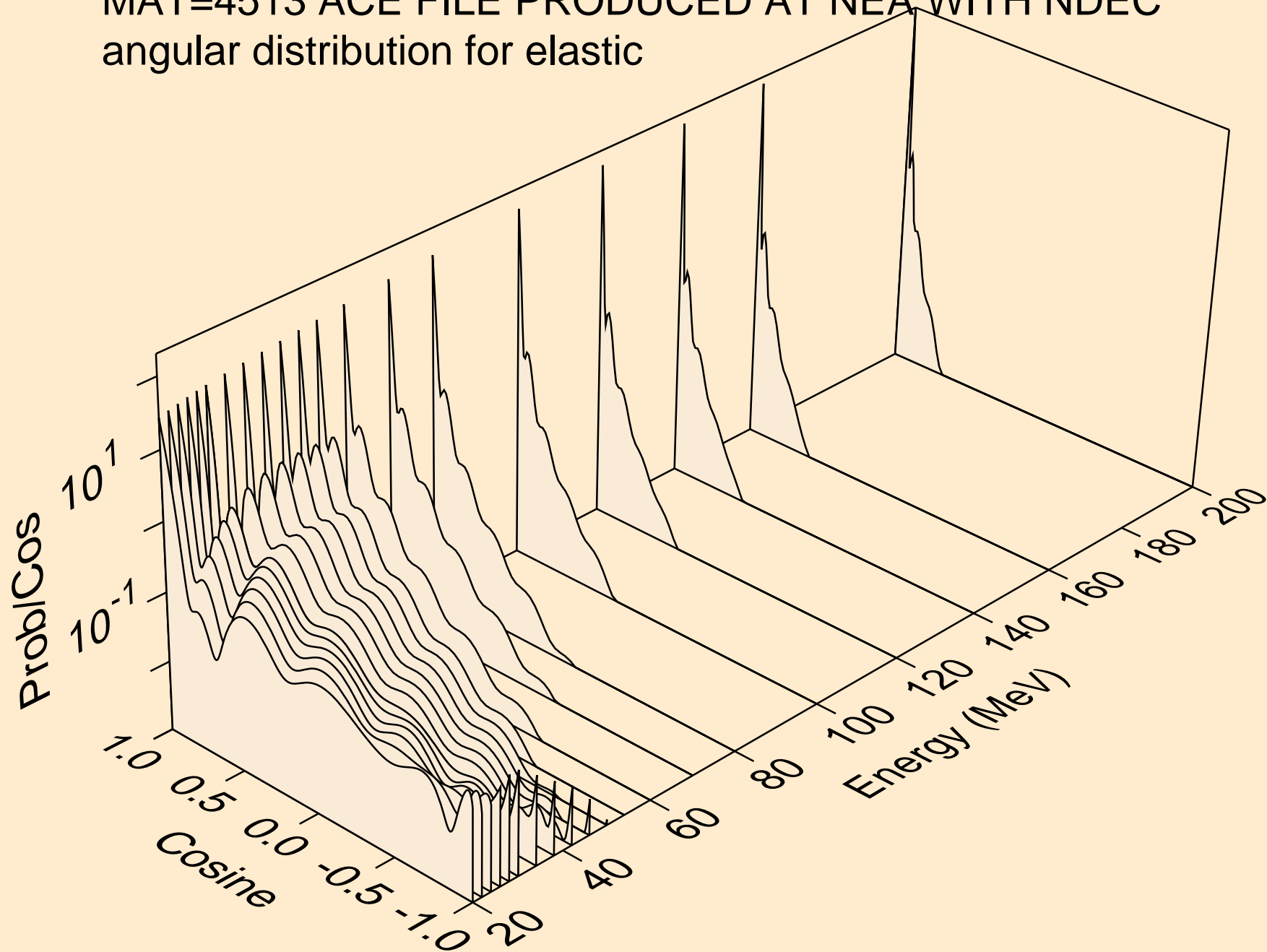
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Threshold reactions



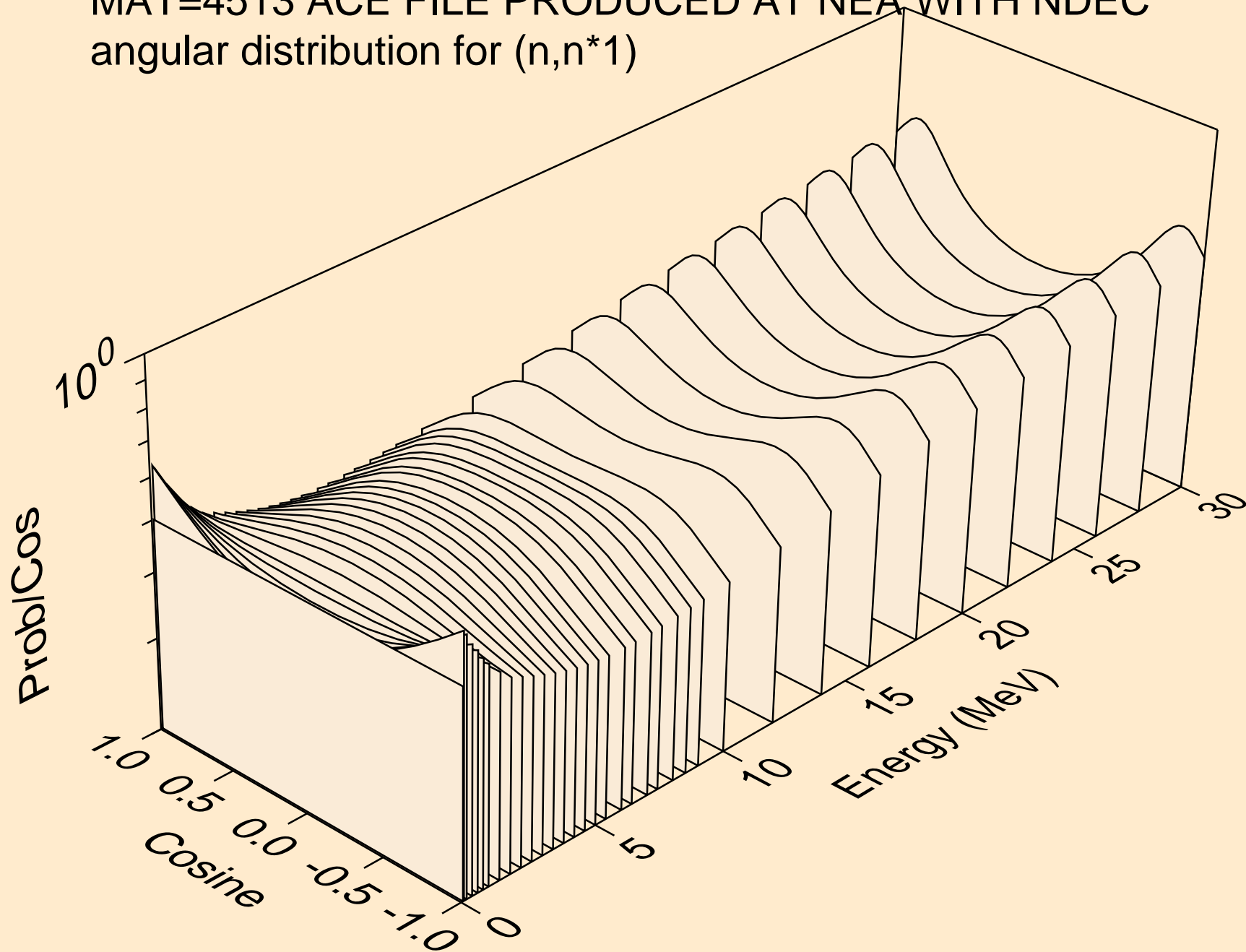
MAT=4513 ACE FILE PRODUCED AT NEA WITH NDEC  
angular distribution for elastic



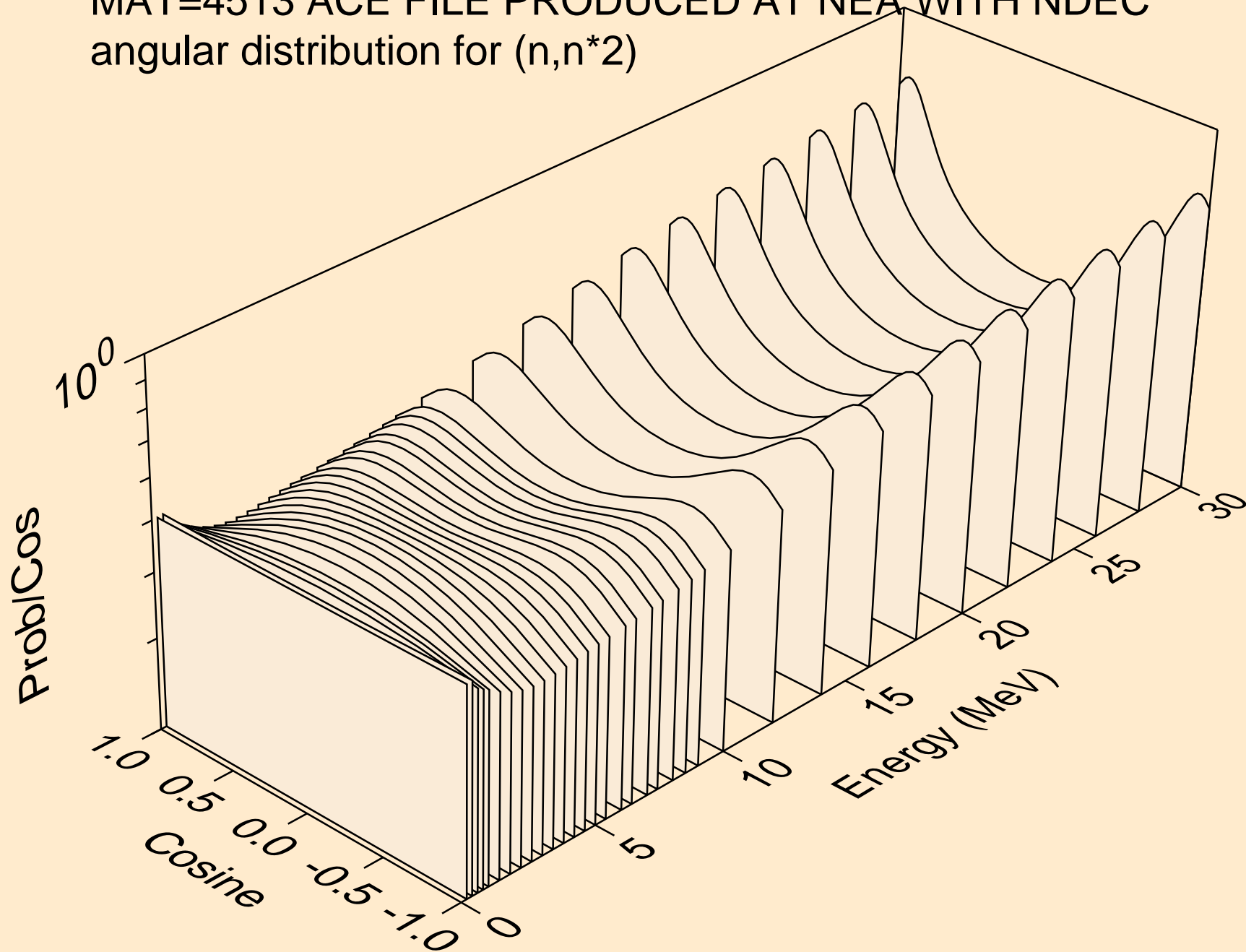
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angular distribution for elastic



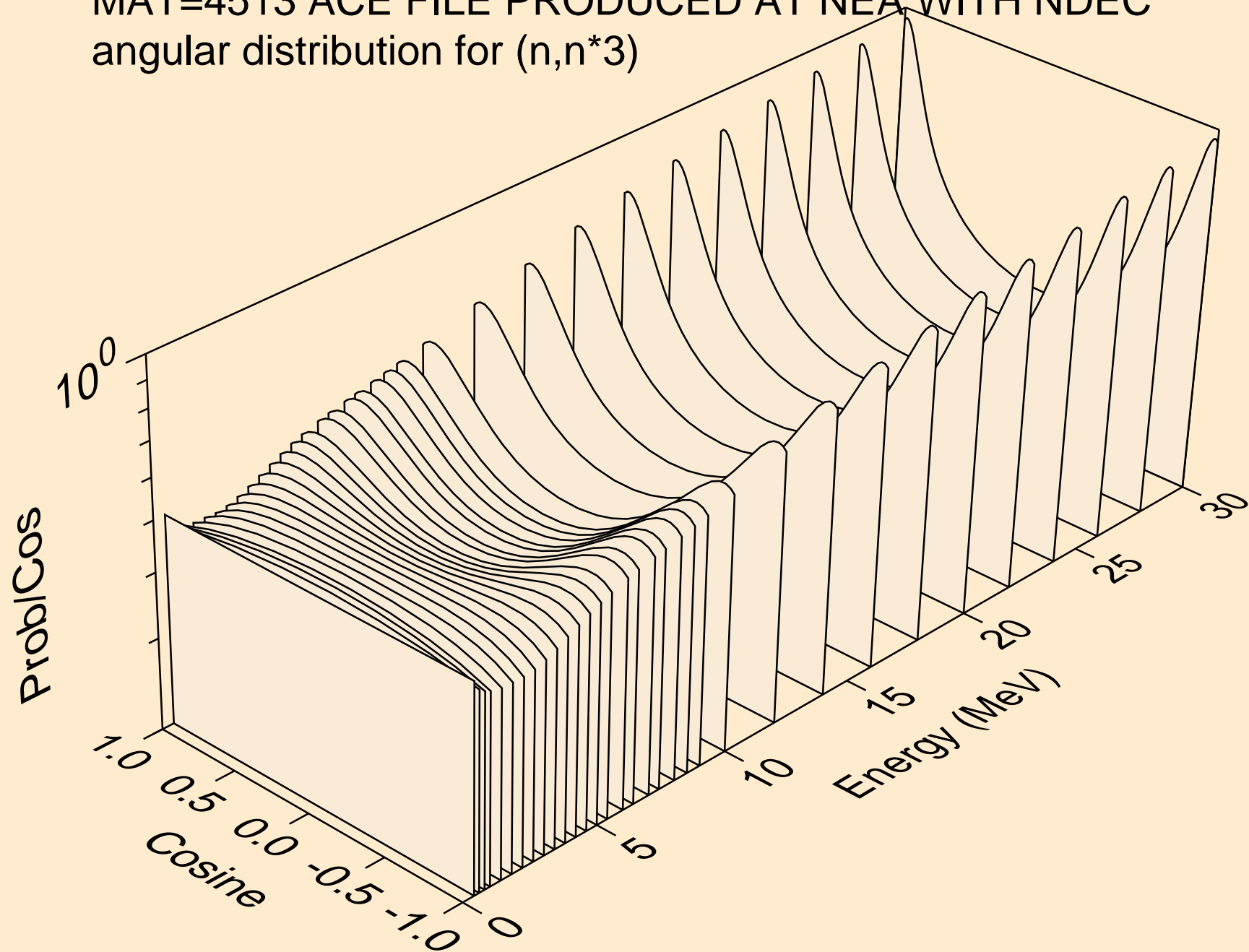
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angular distribution for (n,n\*1)



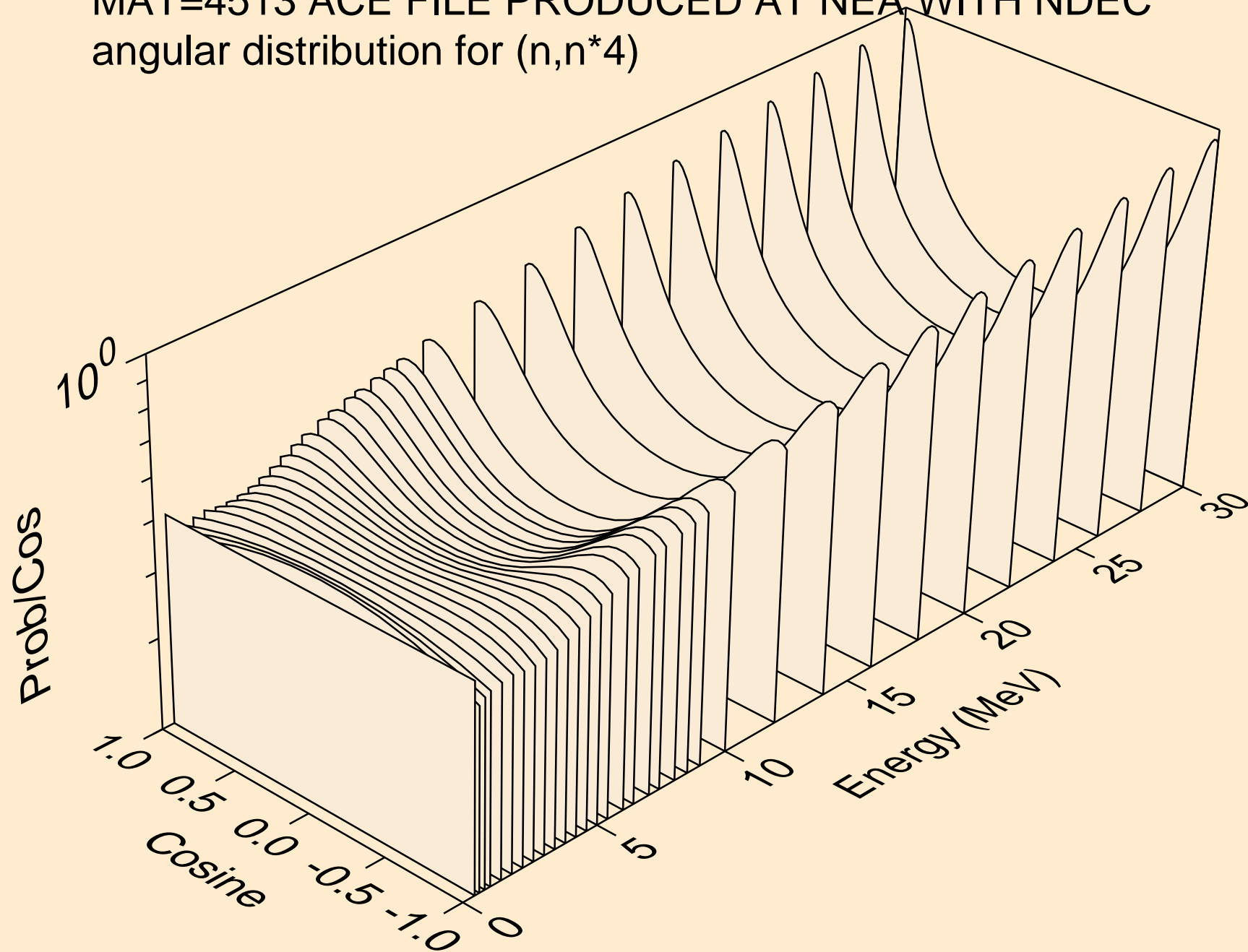
MAT=4513 ACE FILE PRODUCED AT NEA WITH NDEC  
angular distribution for (n,n\*2)



MAT=4513 ACE FILE PRODUCED AT NEA WITH NDEC  
angular distribution for (n,n\*3)

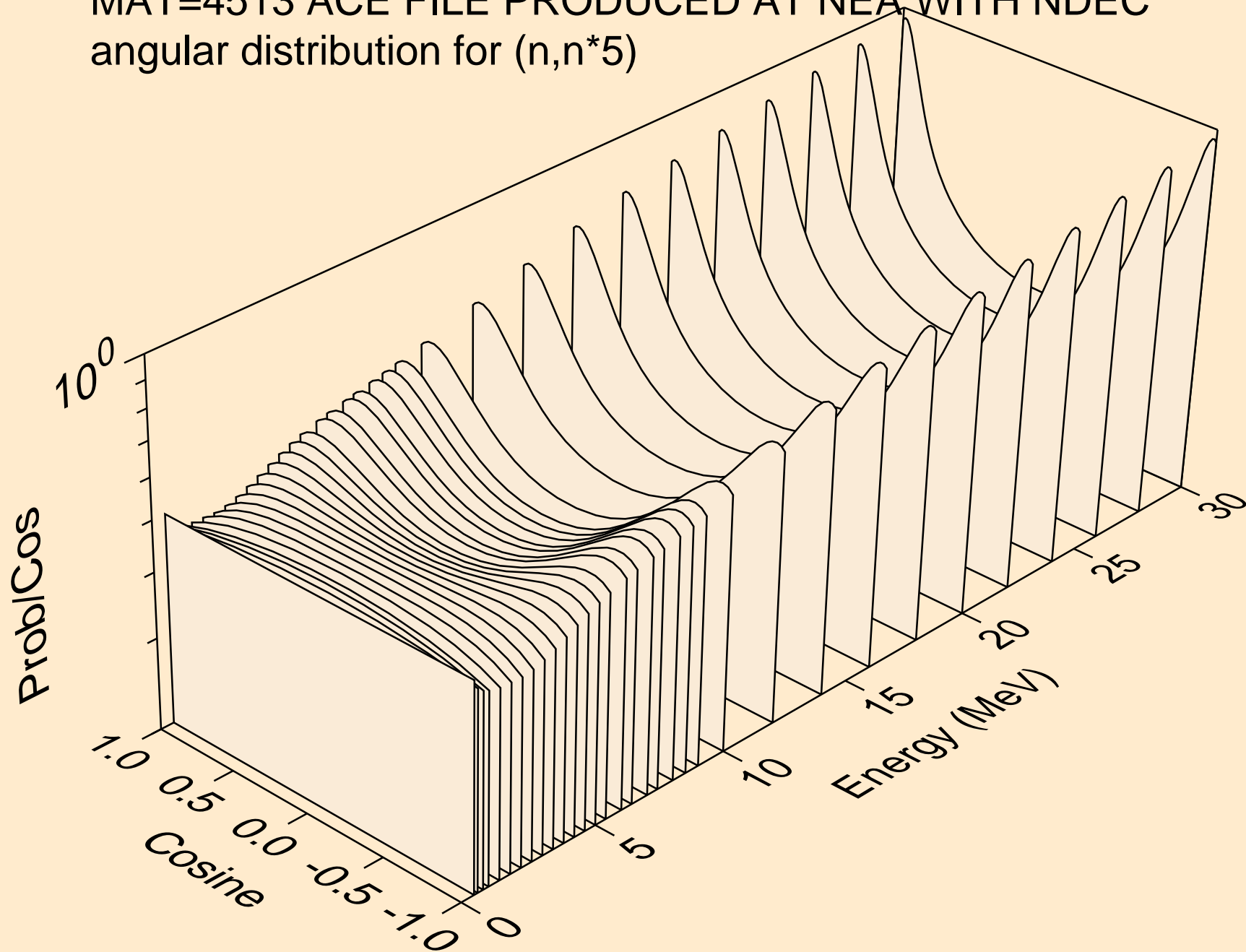


MAT=4513 ACE FILE PRODUCED AT NEA WITH NDEC  
angular distribution for (n,n\*4)

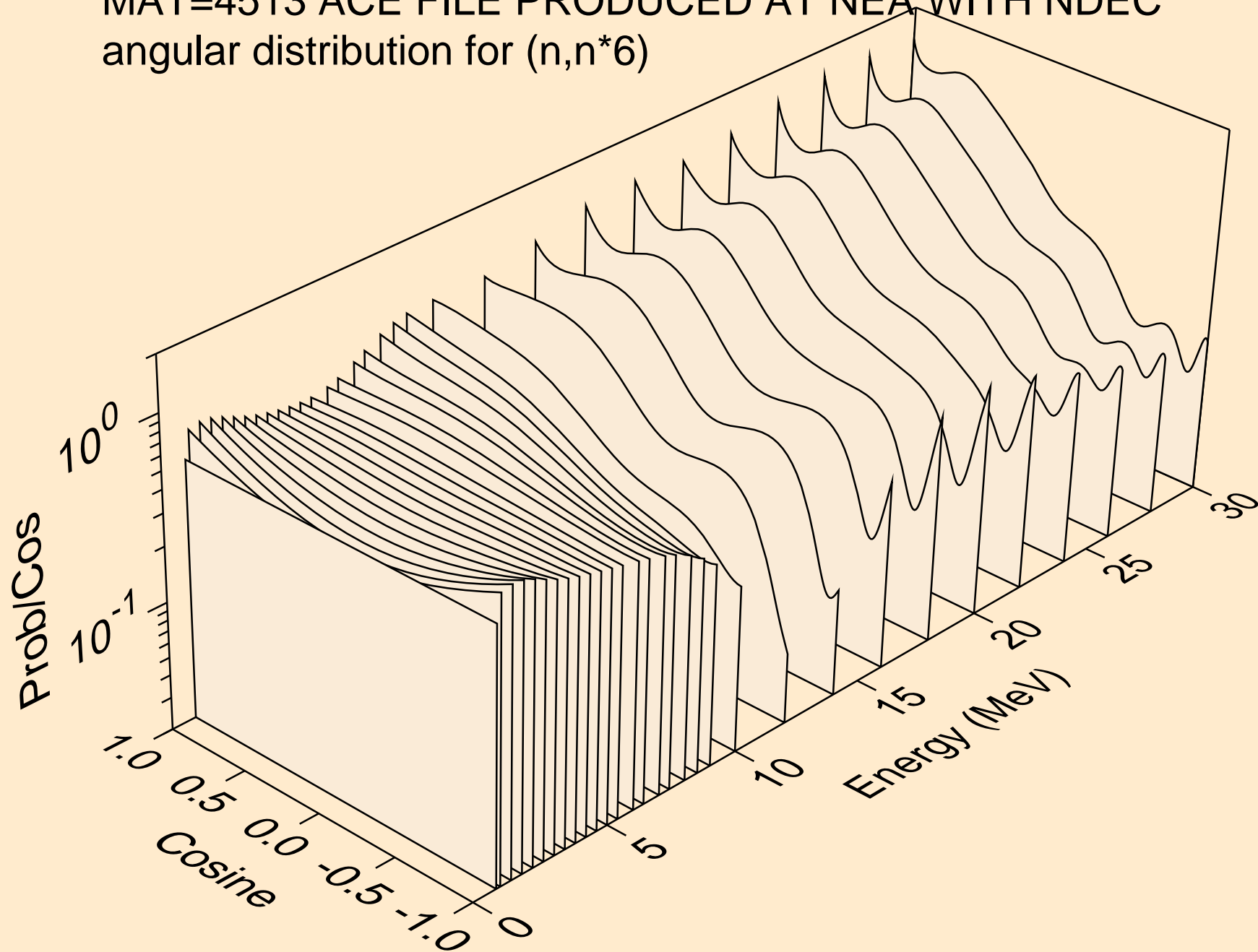




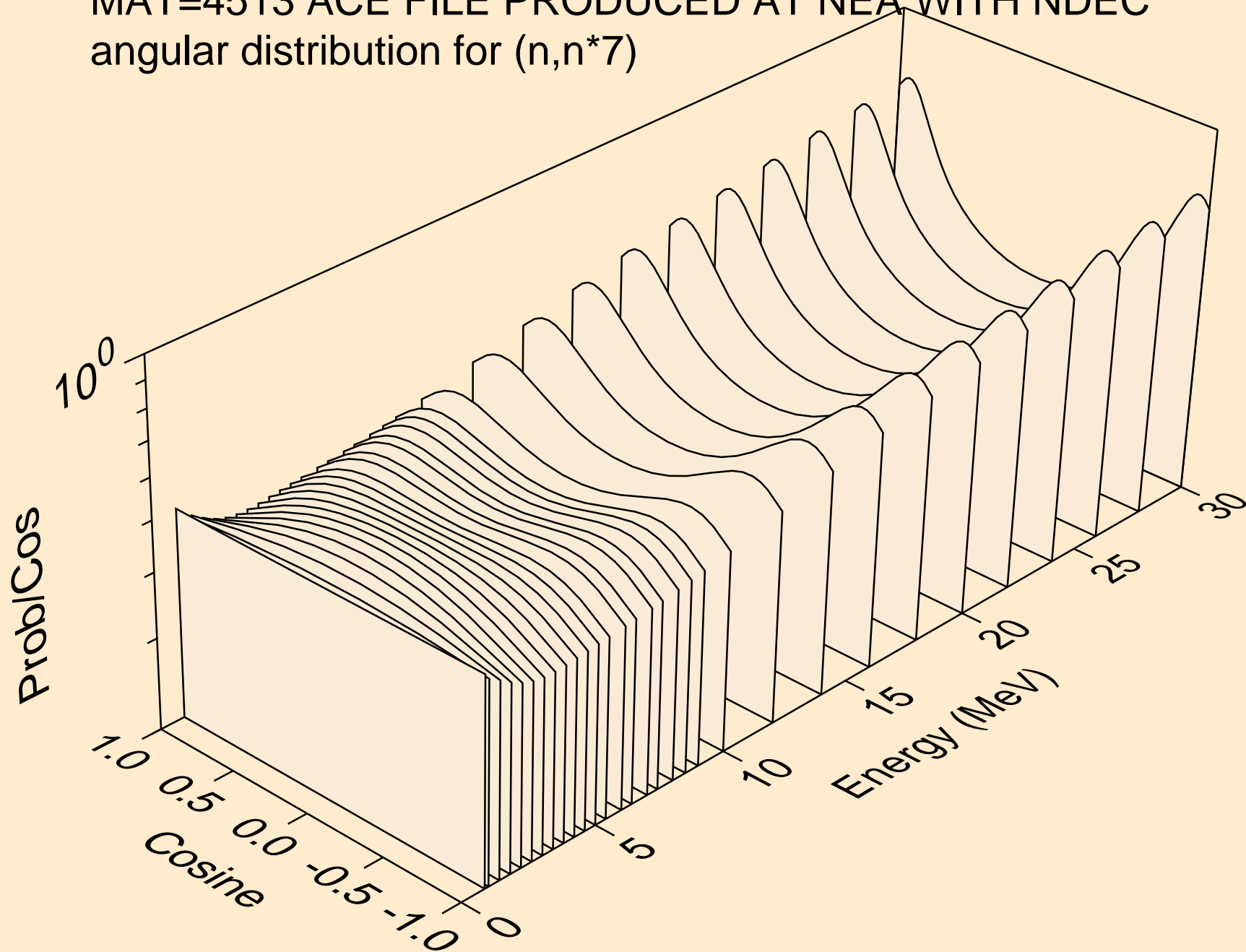
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angular distribution for (n,n\*5)



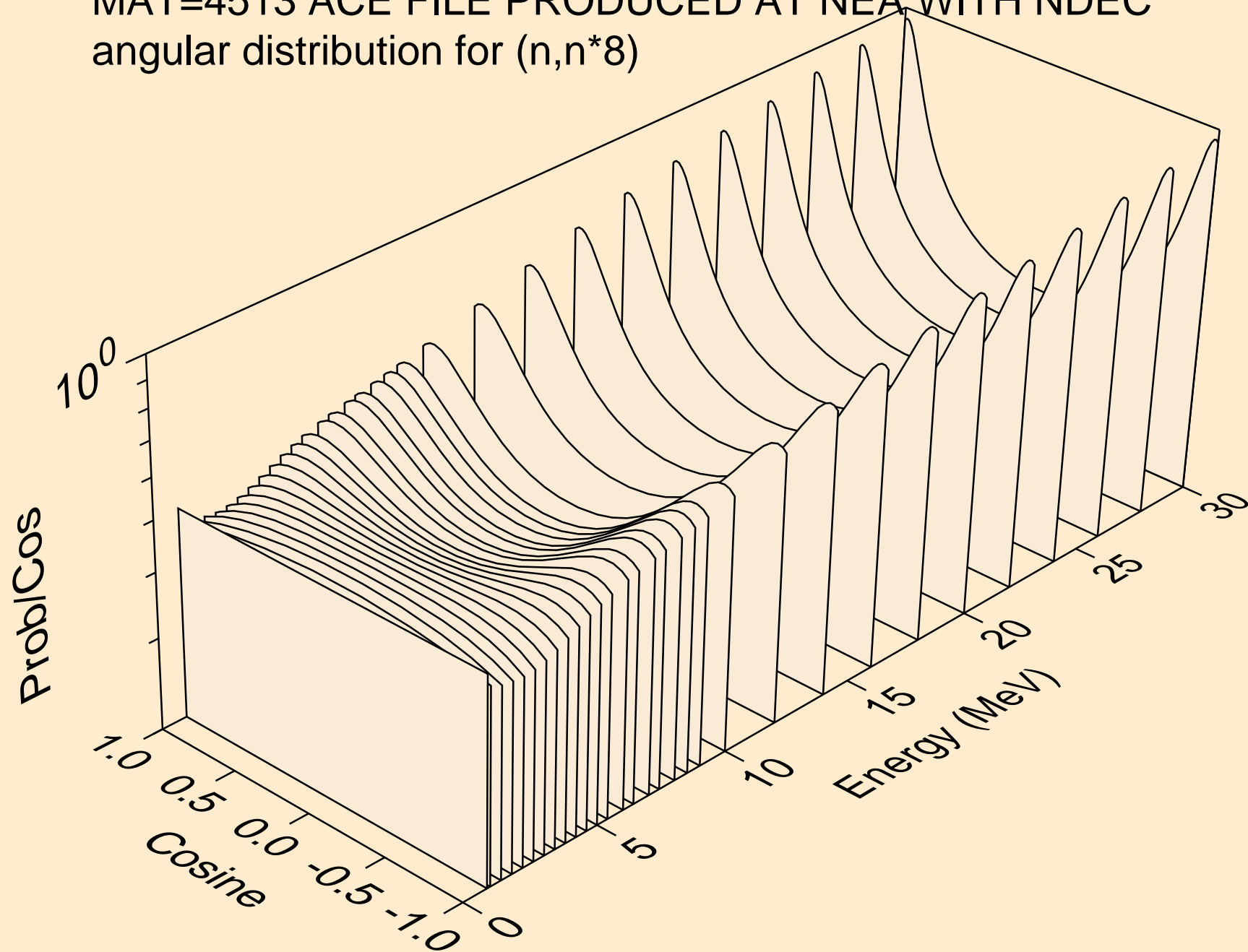
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angular distribution for (n,n\*6)



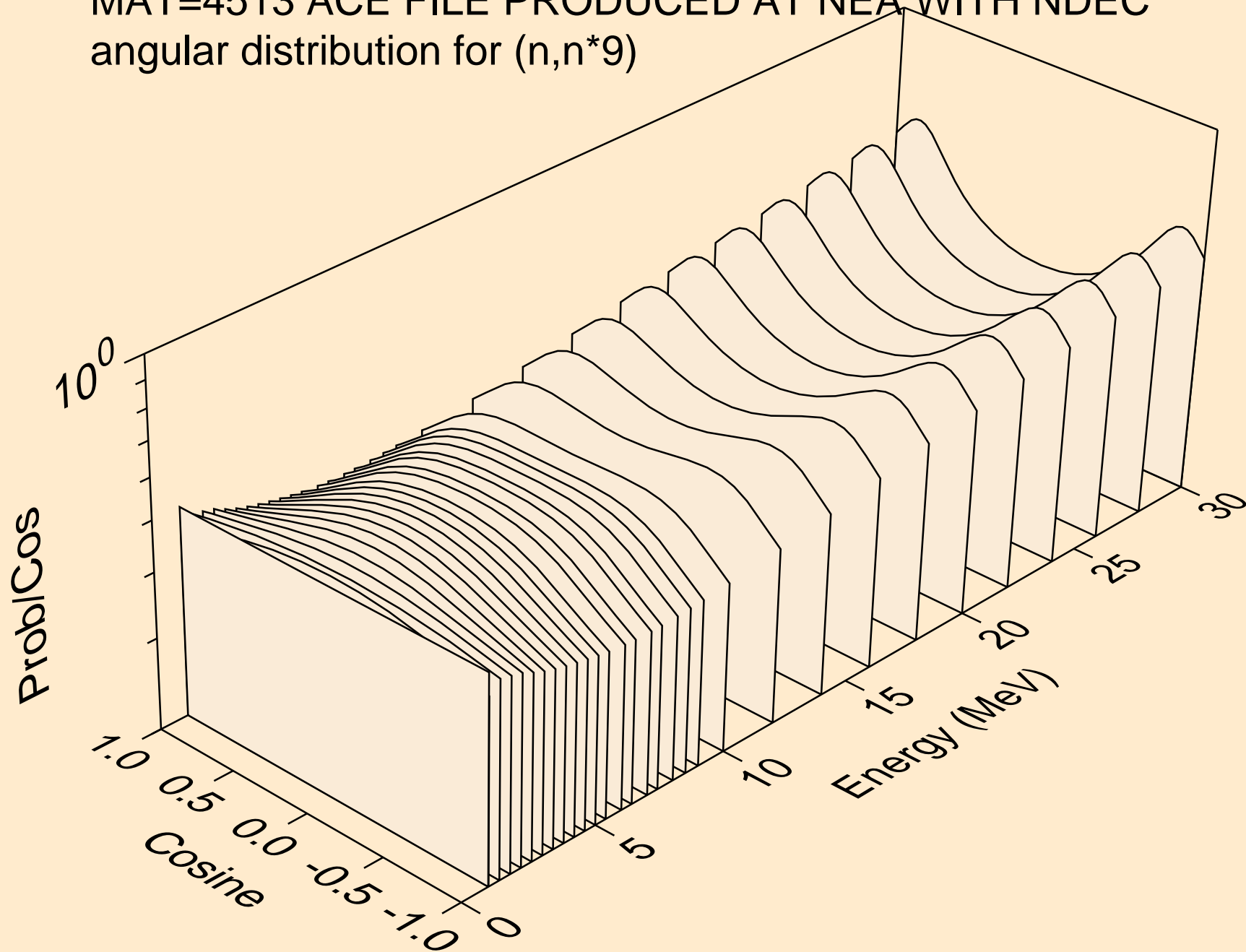
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angular distribution for (n,n\*7)



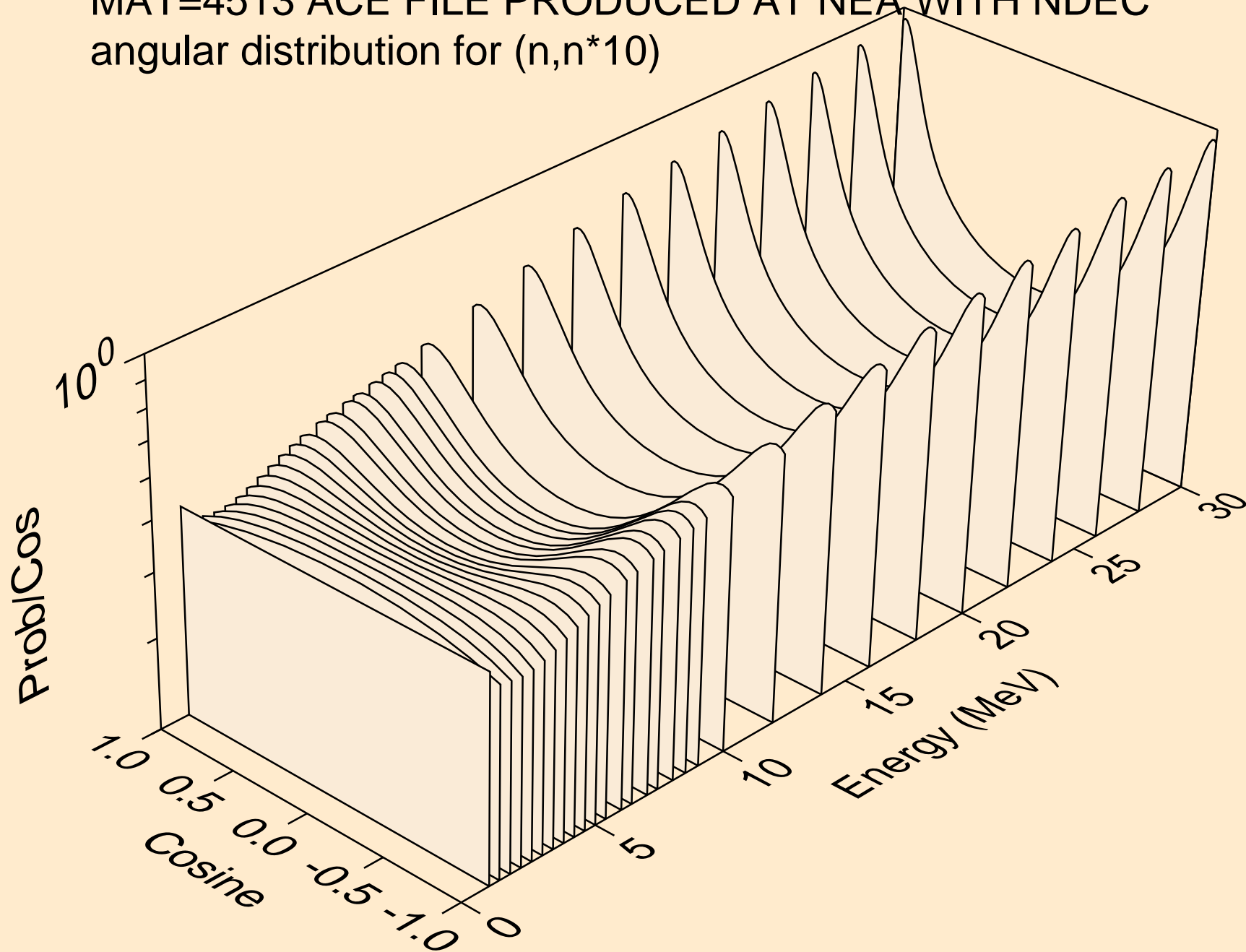
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angular distribution for (n,n\*8)



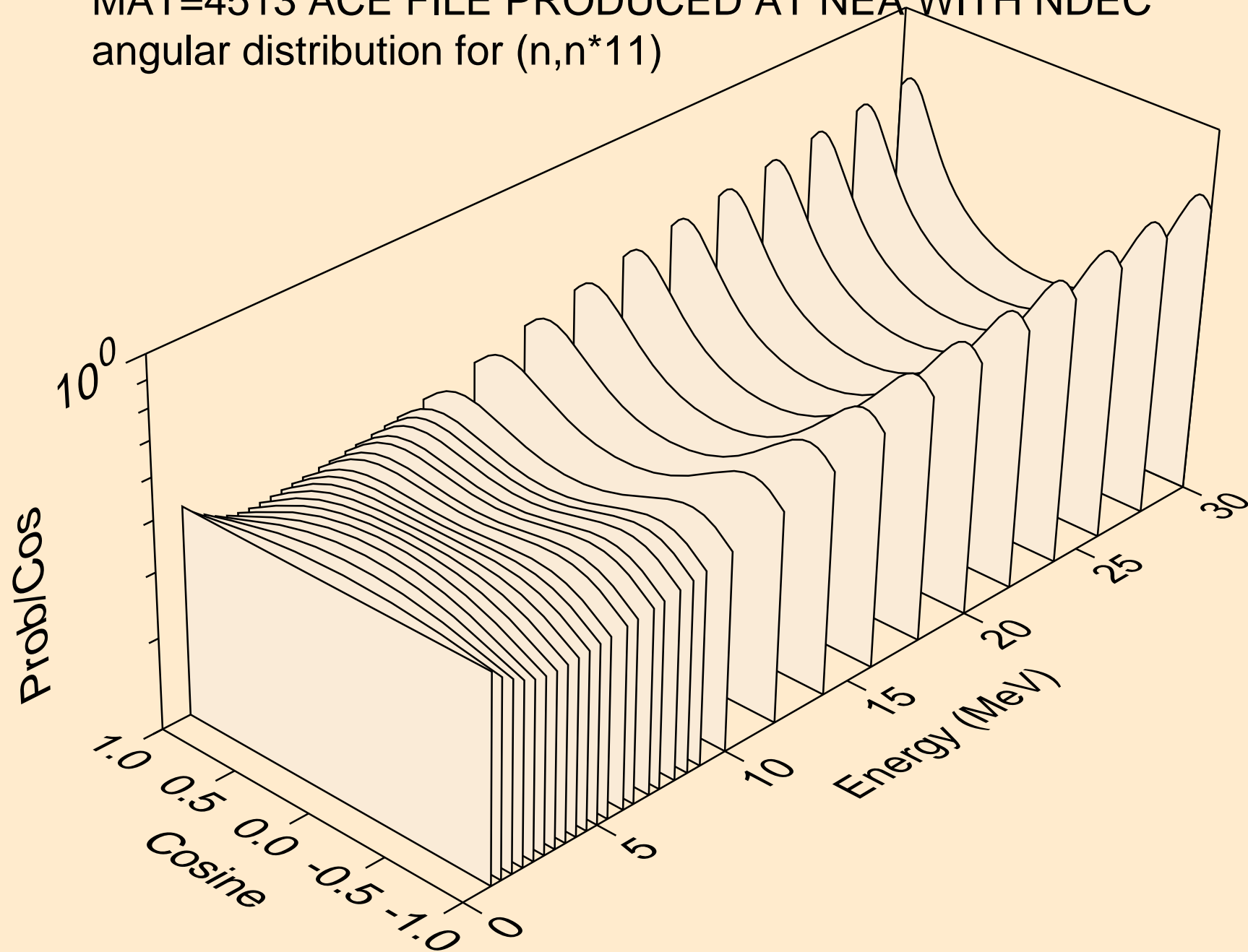
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angular distribution for (n,n\*9)



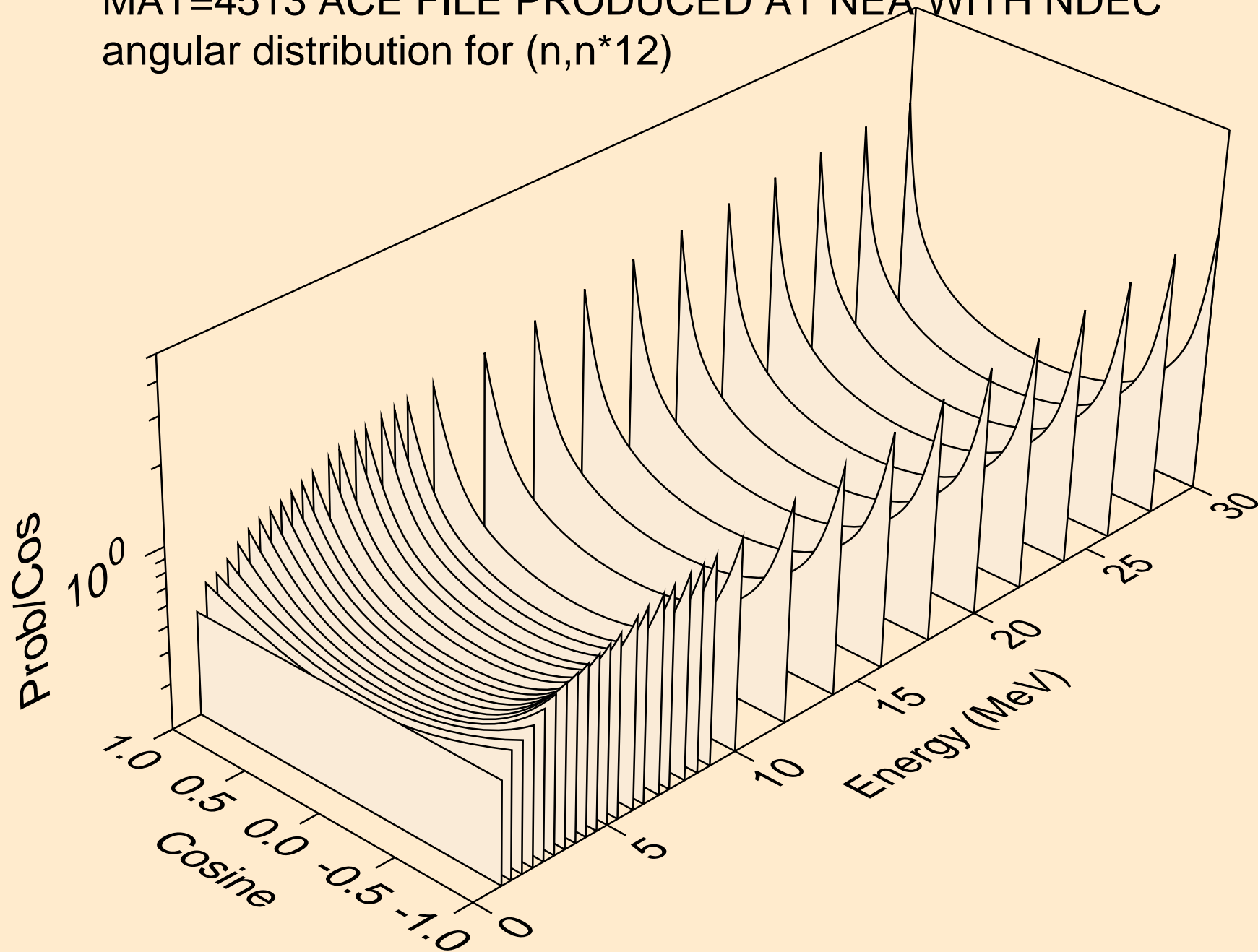
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angular distribution for (n,n\*10)



MAT=4513 ACE FILE PRODUCED AT NEA WITH NDEC  
angular distribution for (n,n\*11)

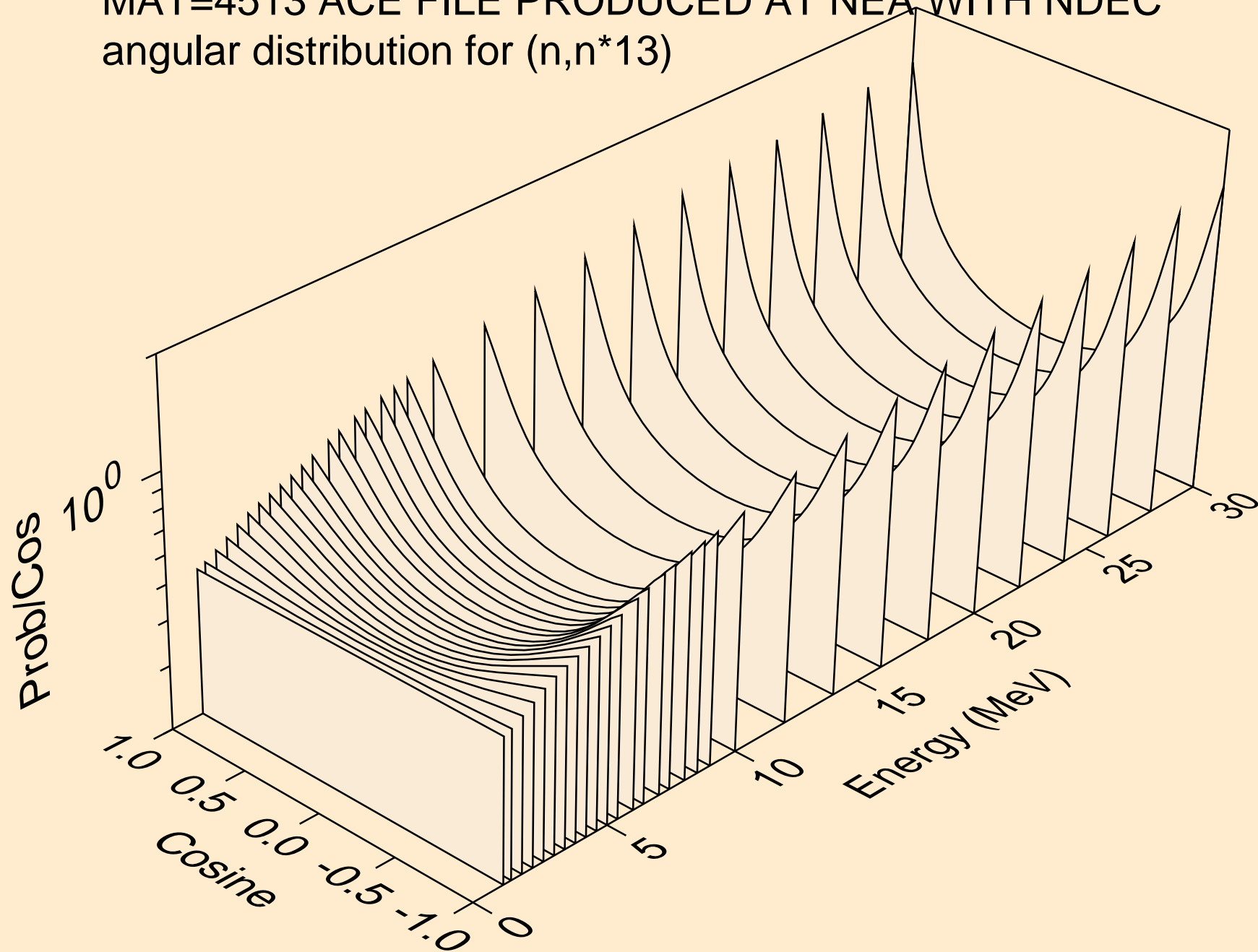


MAT=4513 ACE FILE PRODUCED AT NEA WITH NDEC  
angular distribution for (n,n\*12)

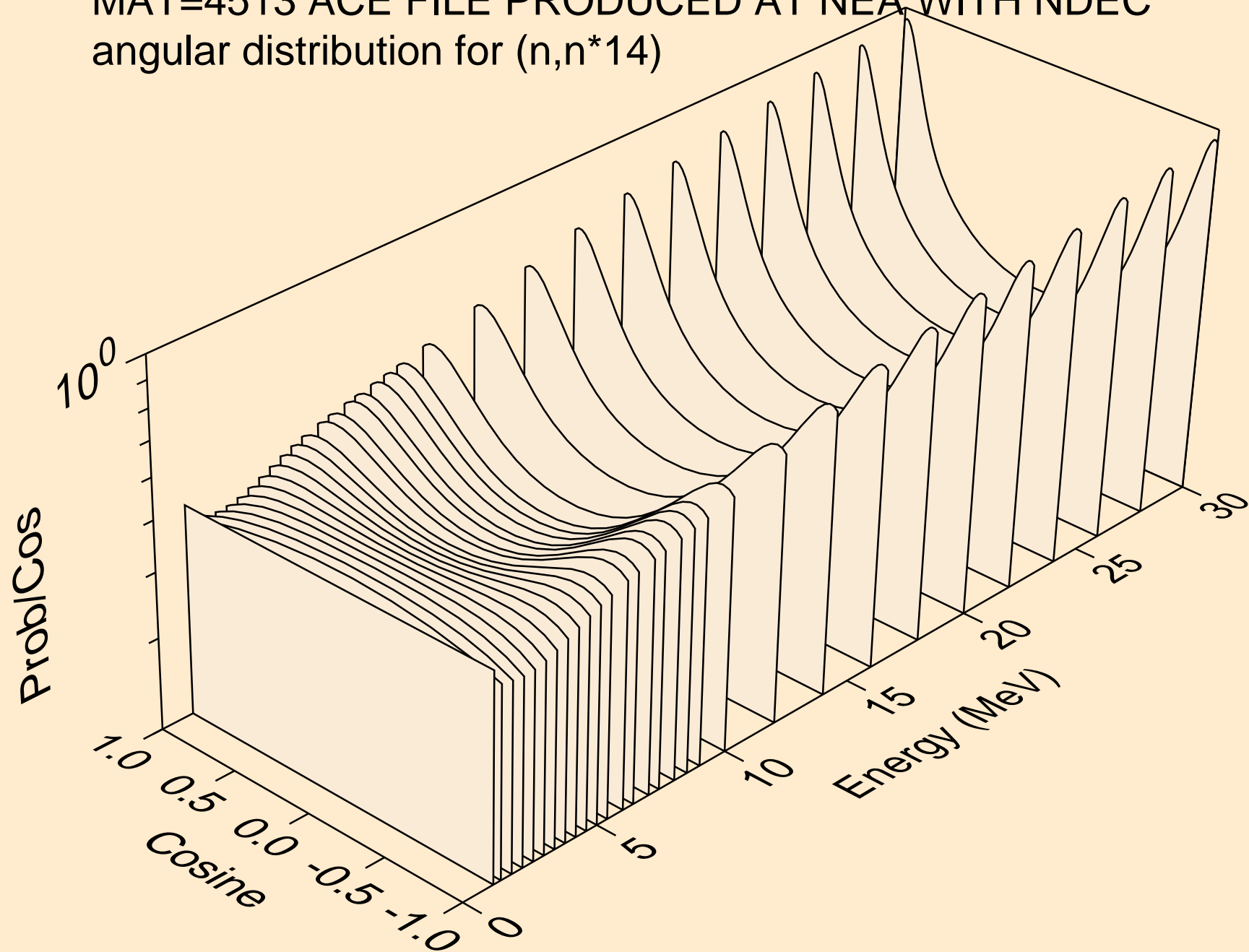




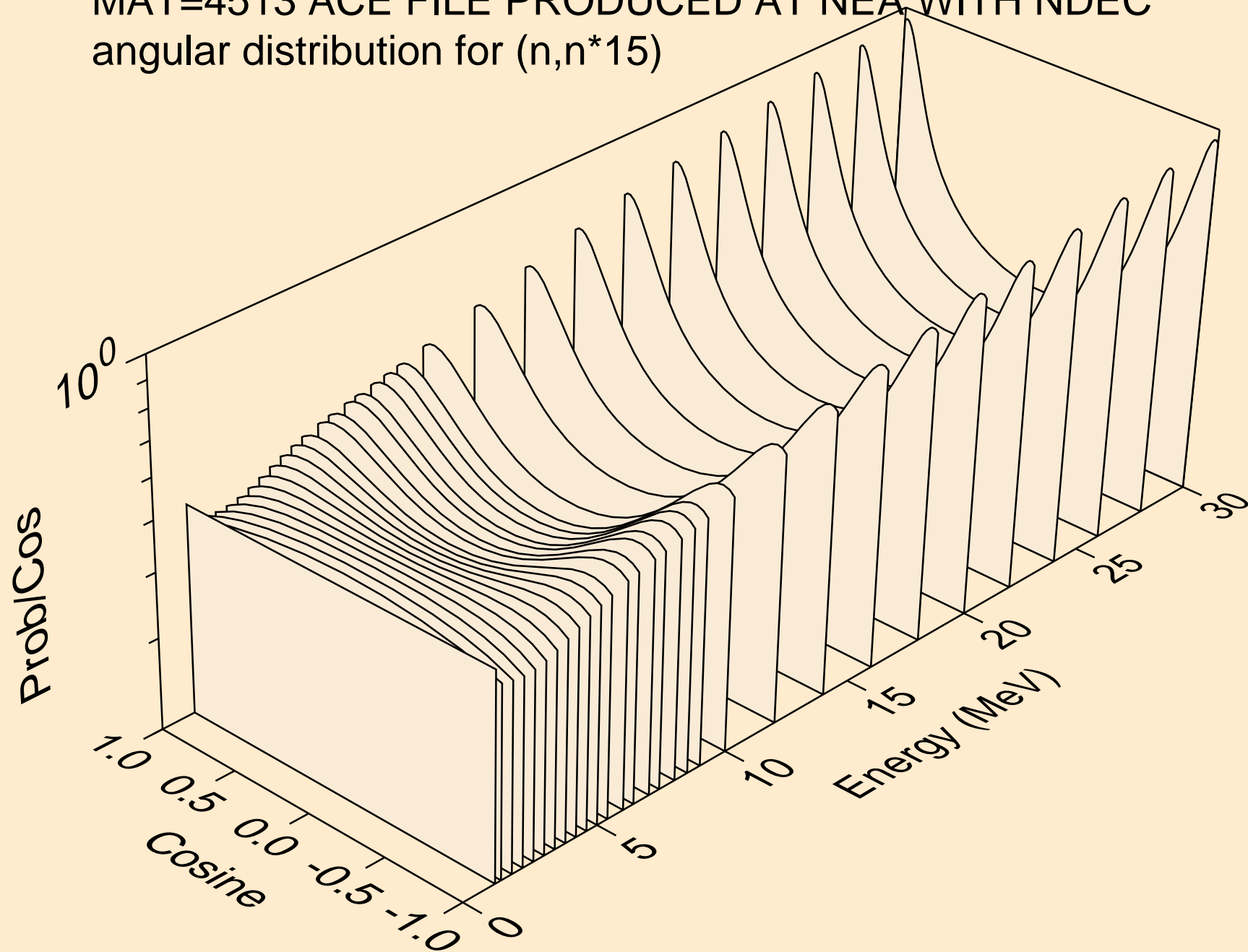
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angular distribution for (n,n\*13)



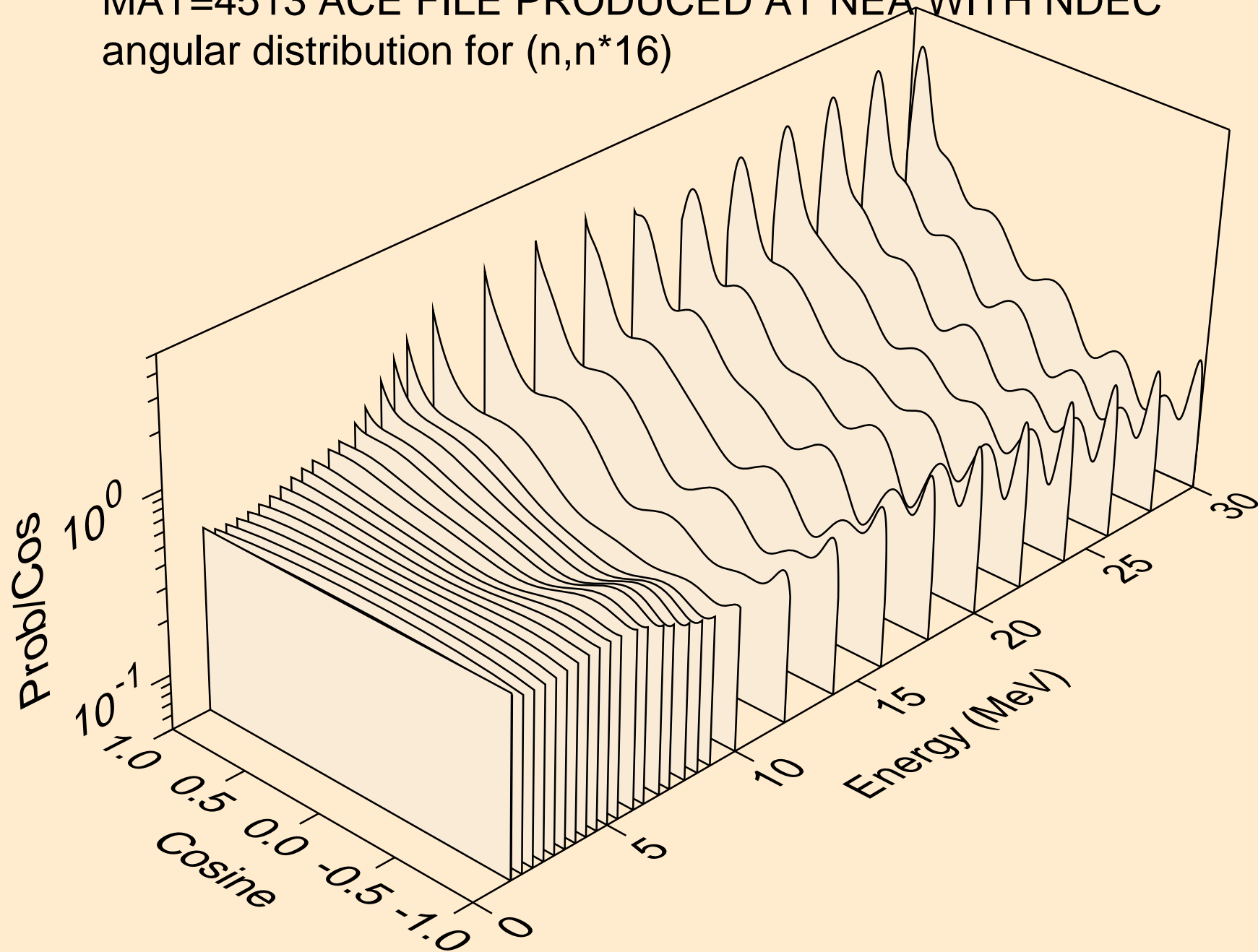
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angular distribution for (n,n\*14)



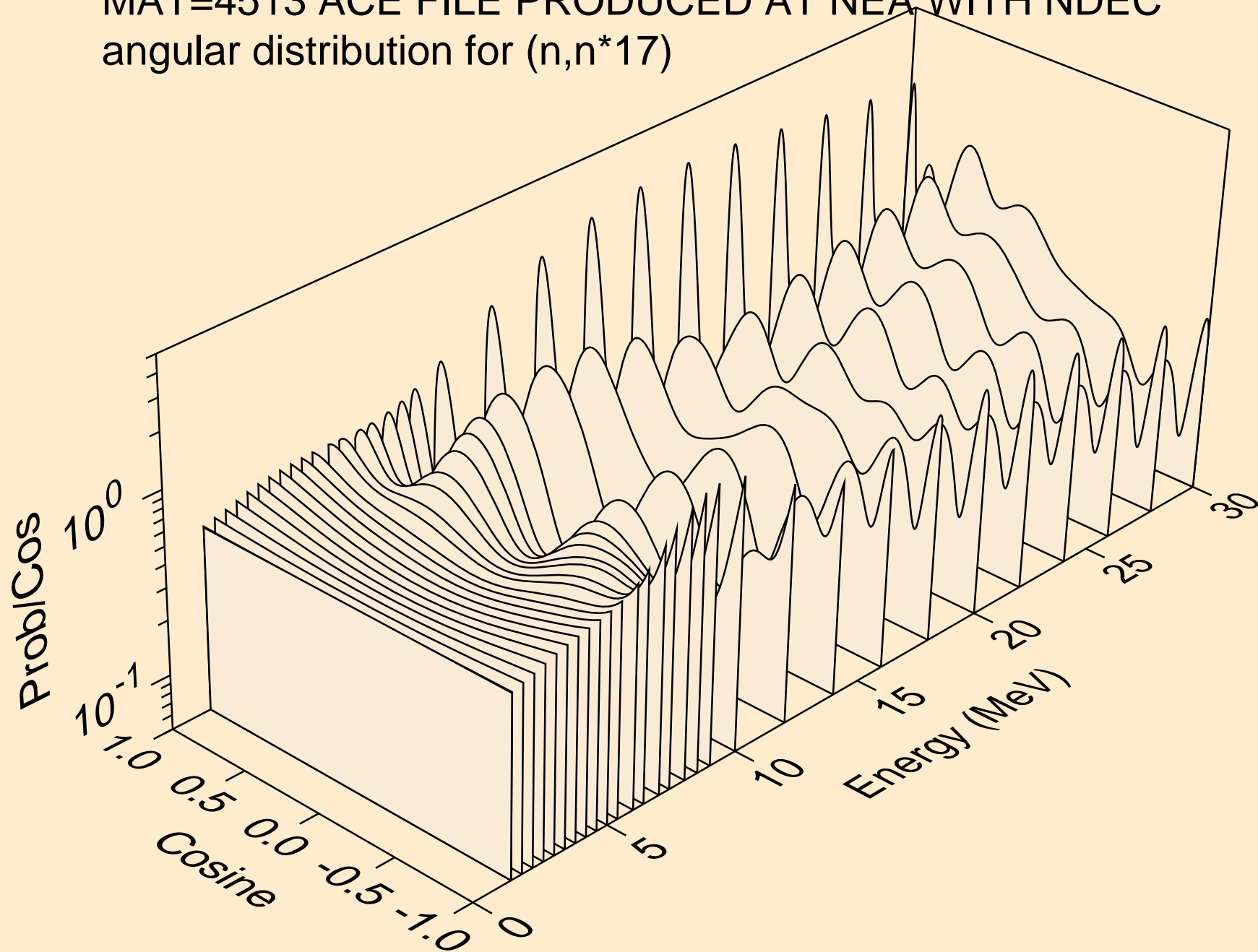
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angular distribution for (n,n\*15)



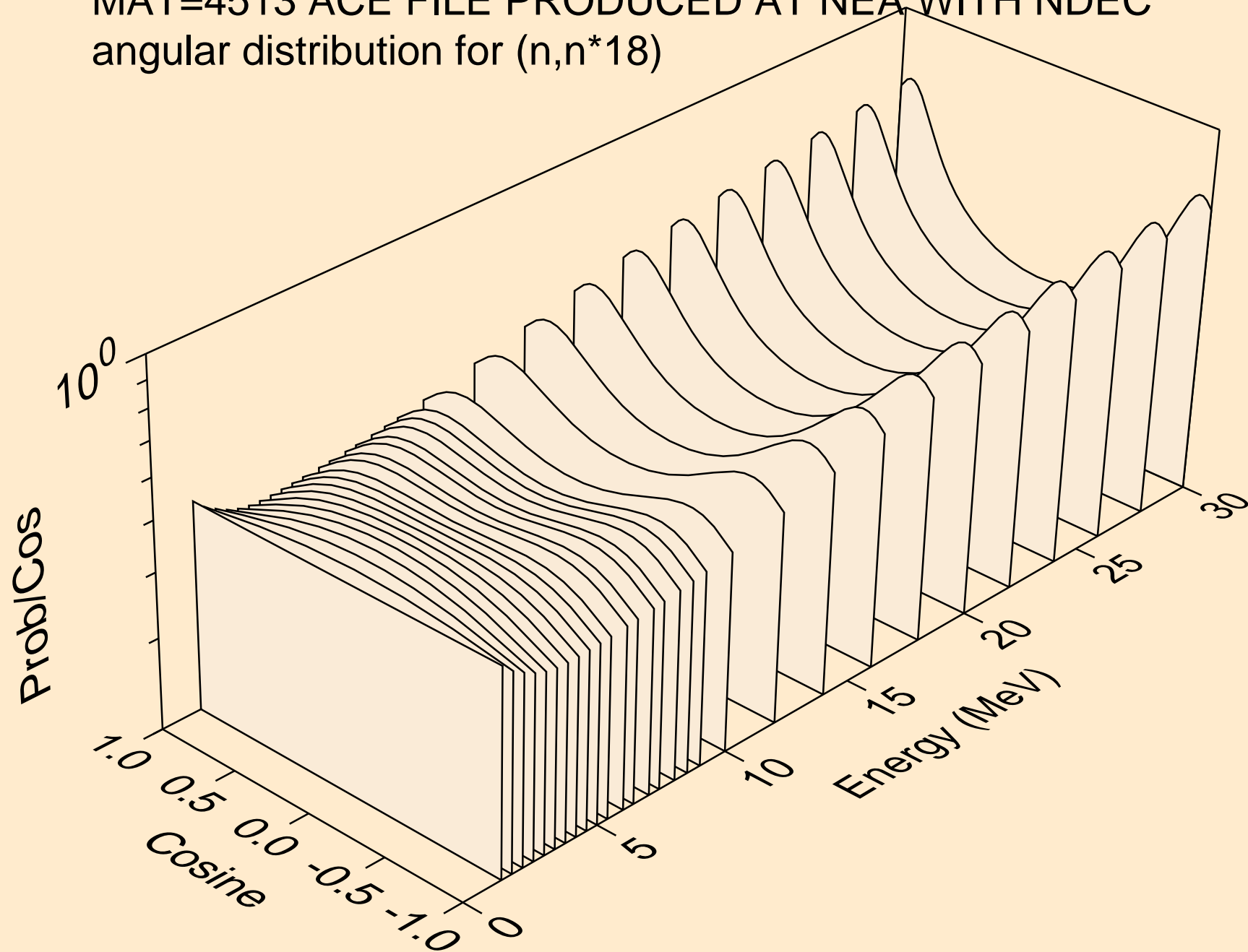
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angular distribution for (n,n\*16)



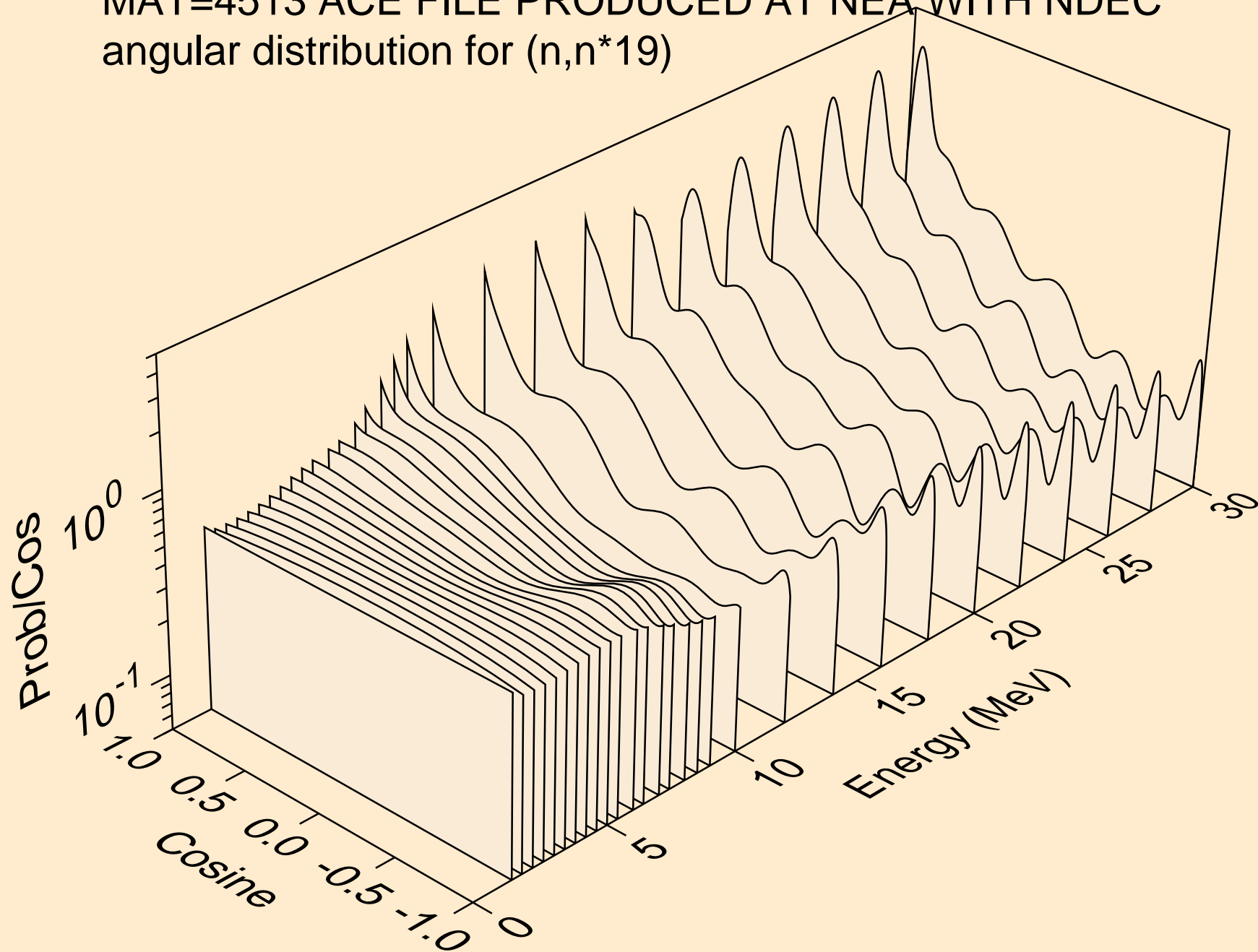
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angular distribution for (n,n\*17)



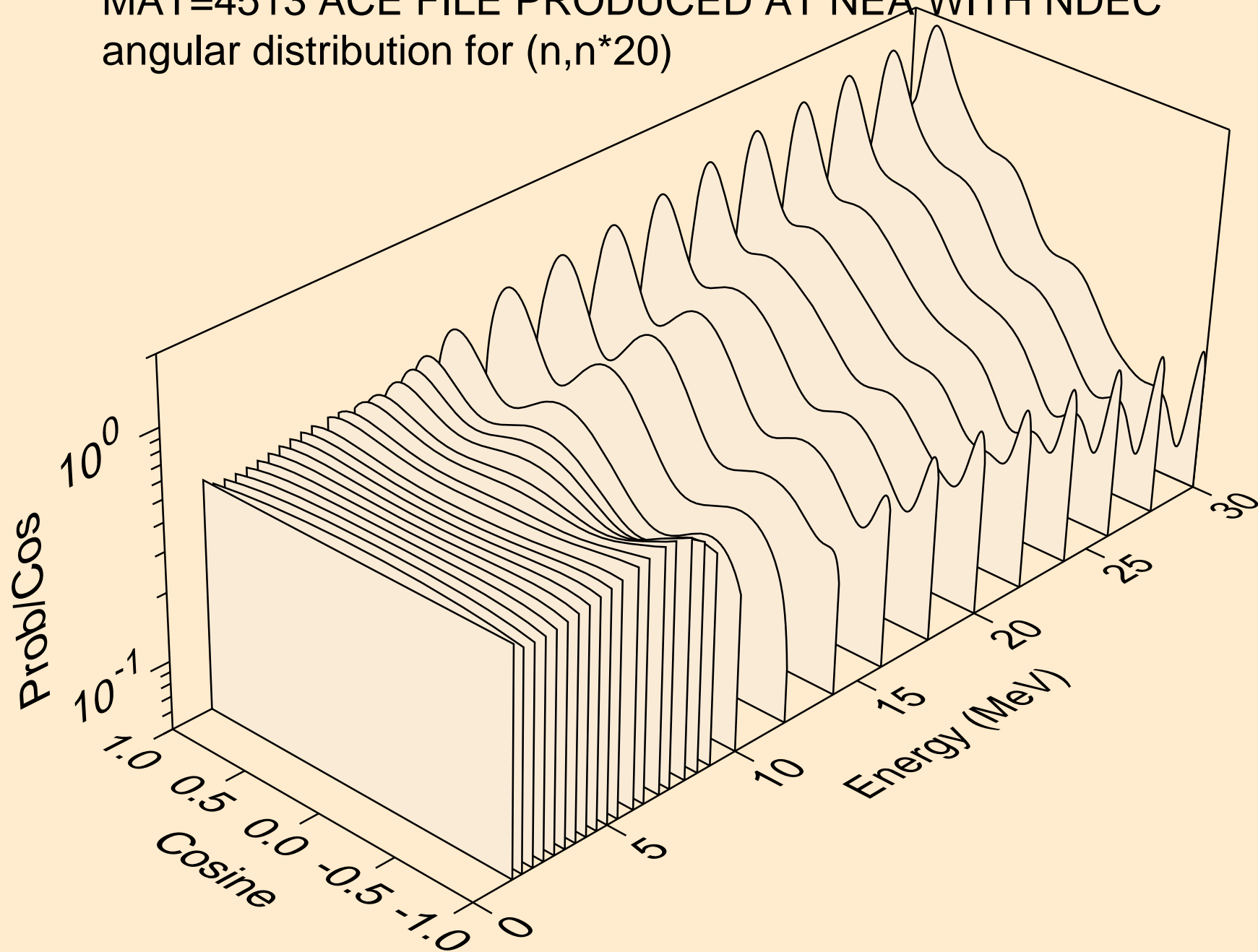
MAT=4513 ACE FILE PRODUCED AT NEA WITH NDEC  
angular distribution for (n,n\*18)



MAT=4513 ACE FILE PRODUCED AT NEA WITH NDEC  
angular distribution for (n,n\*19)

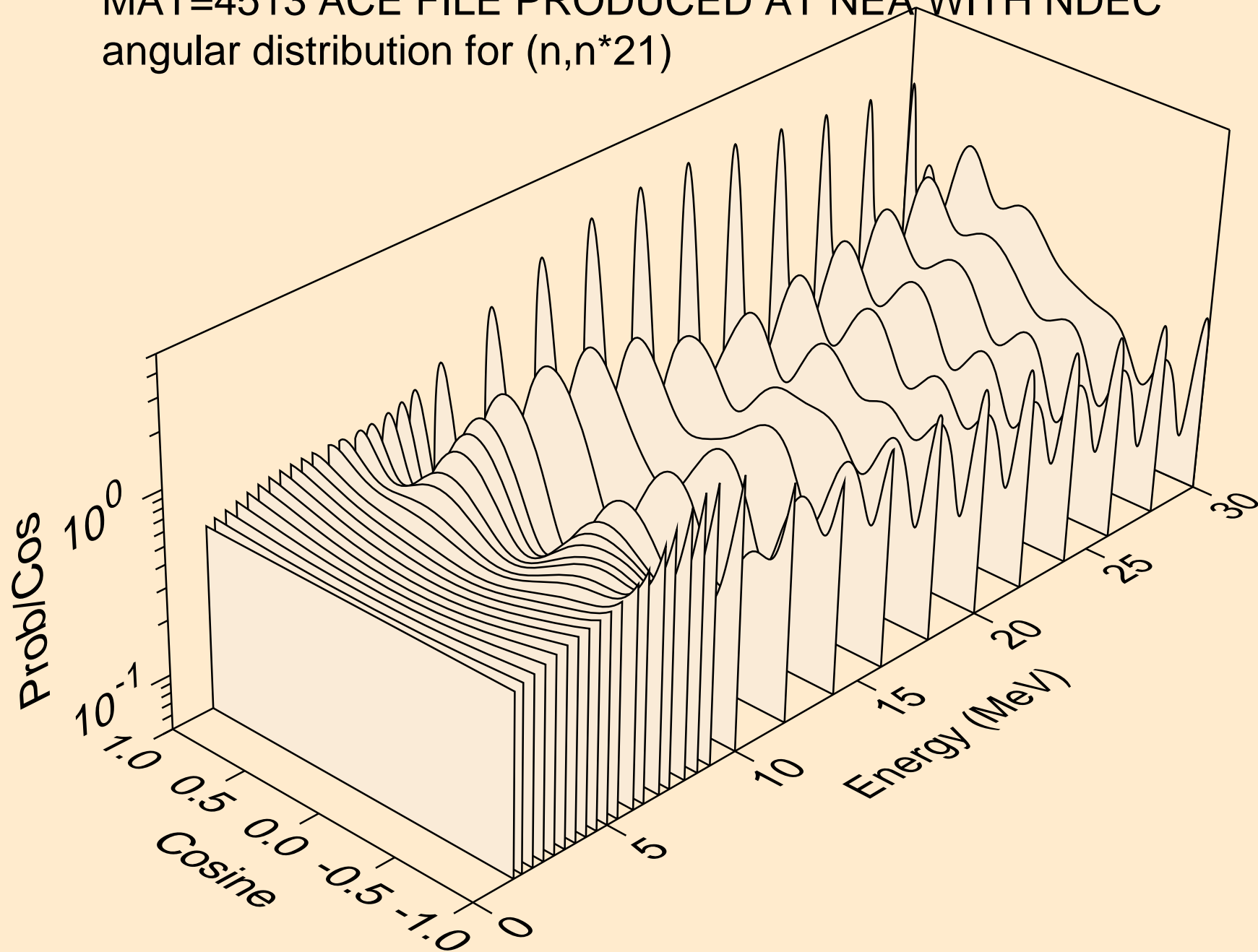


MAT=4513 ACE FILE PRODUCED AT NEA WITH NDEC  
angular distribution for (n,n\*20)

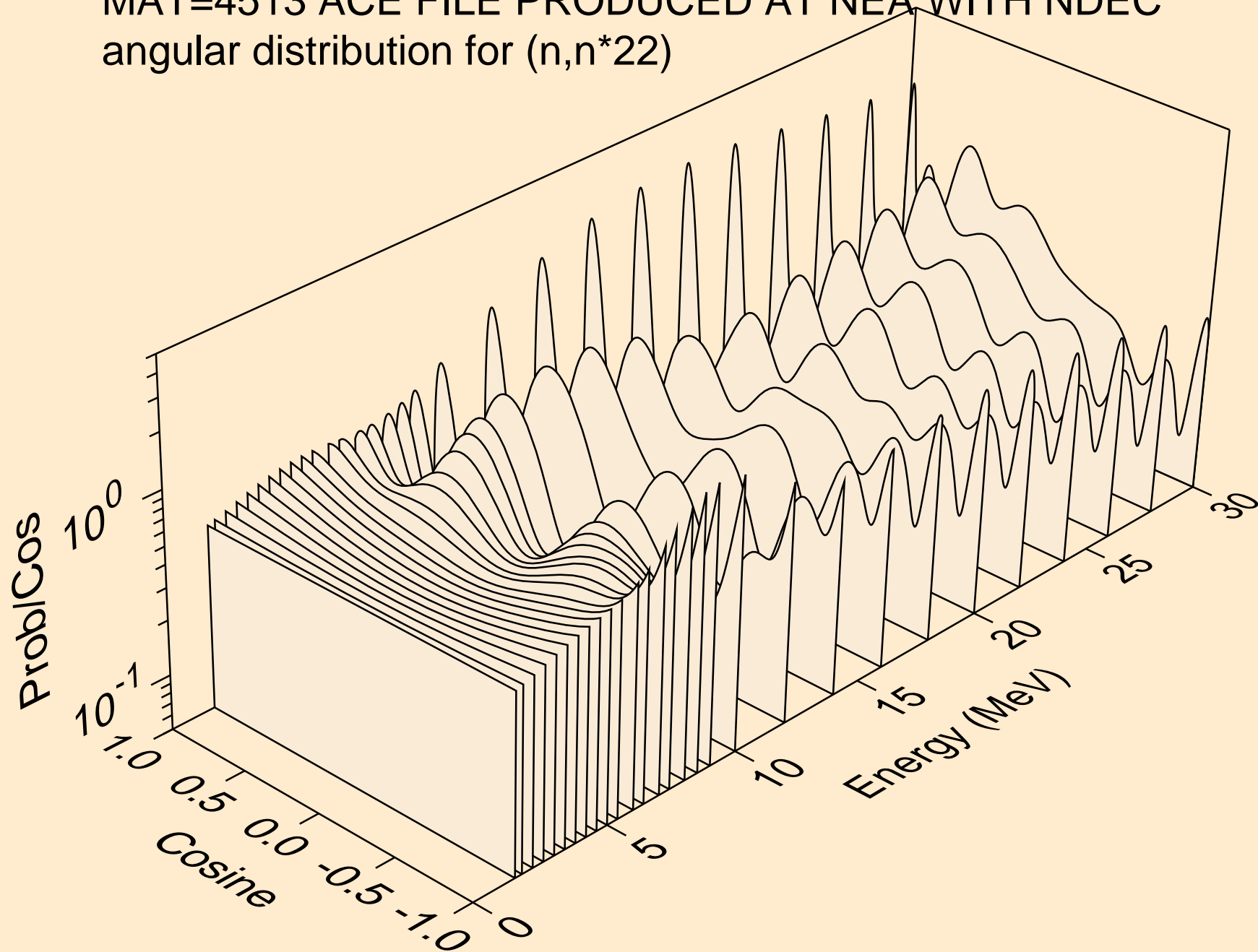




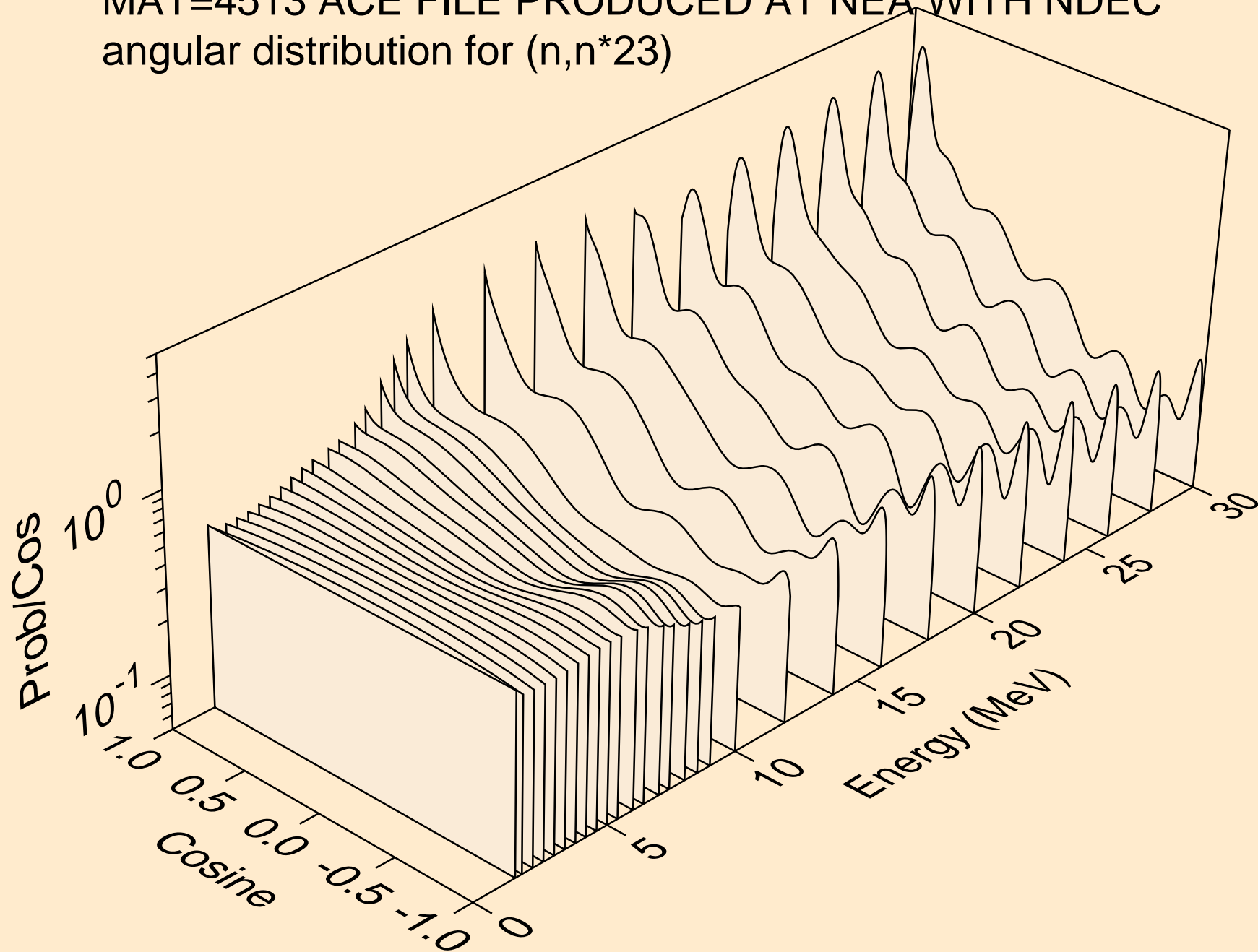
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angular distribution for (n,n\*21)



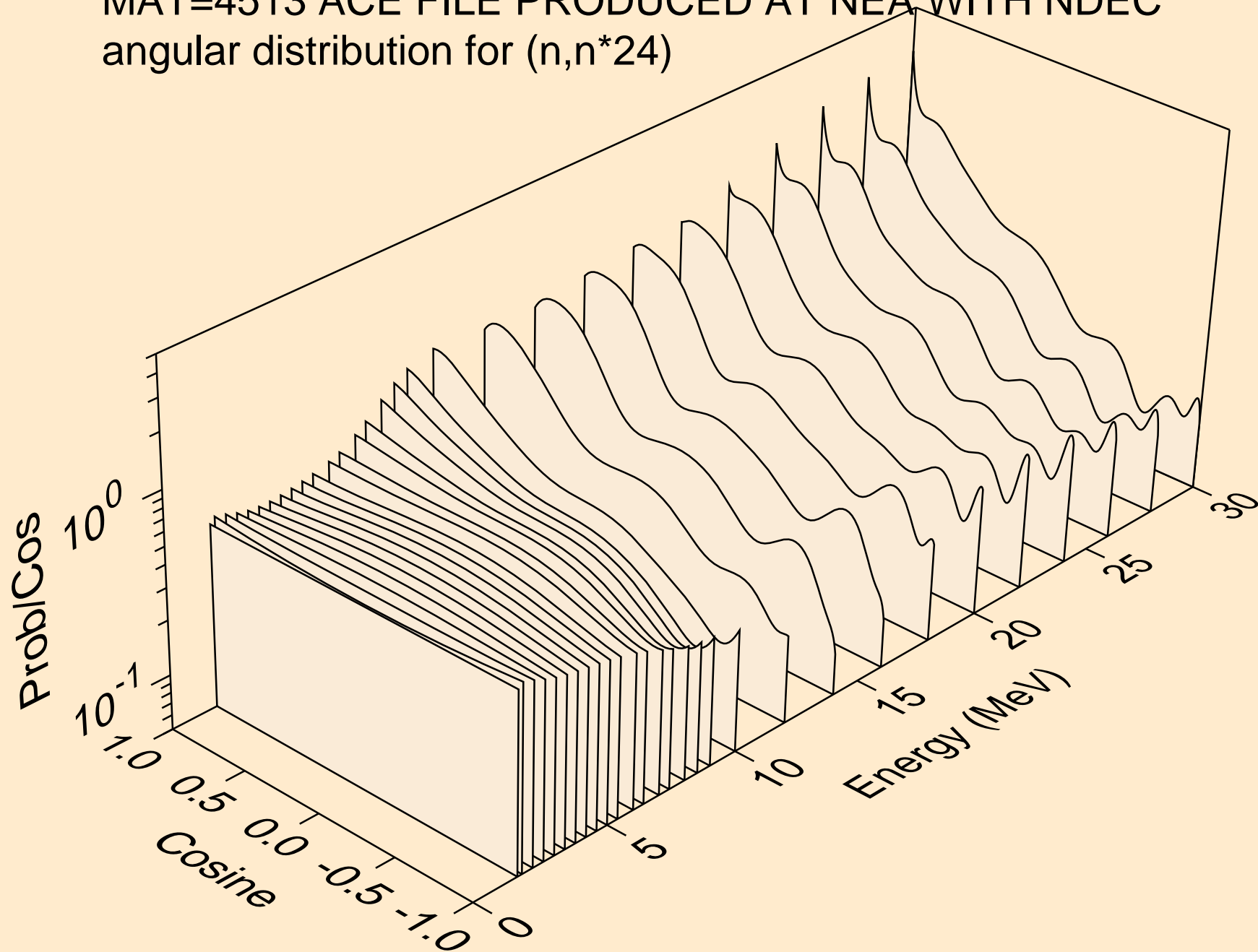
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angular distribution for (n,n\*22)



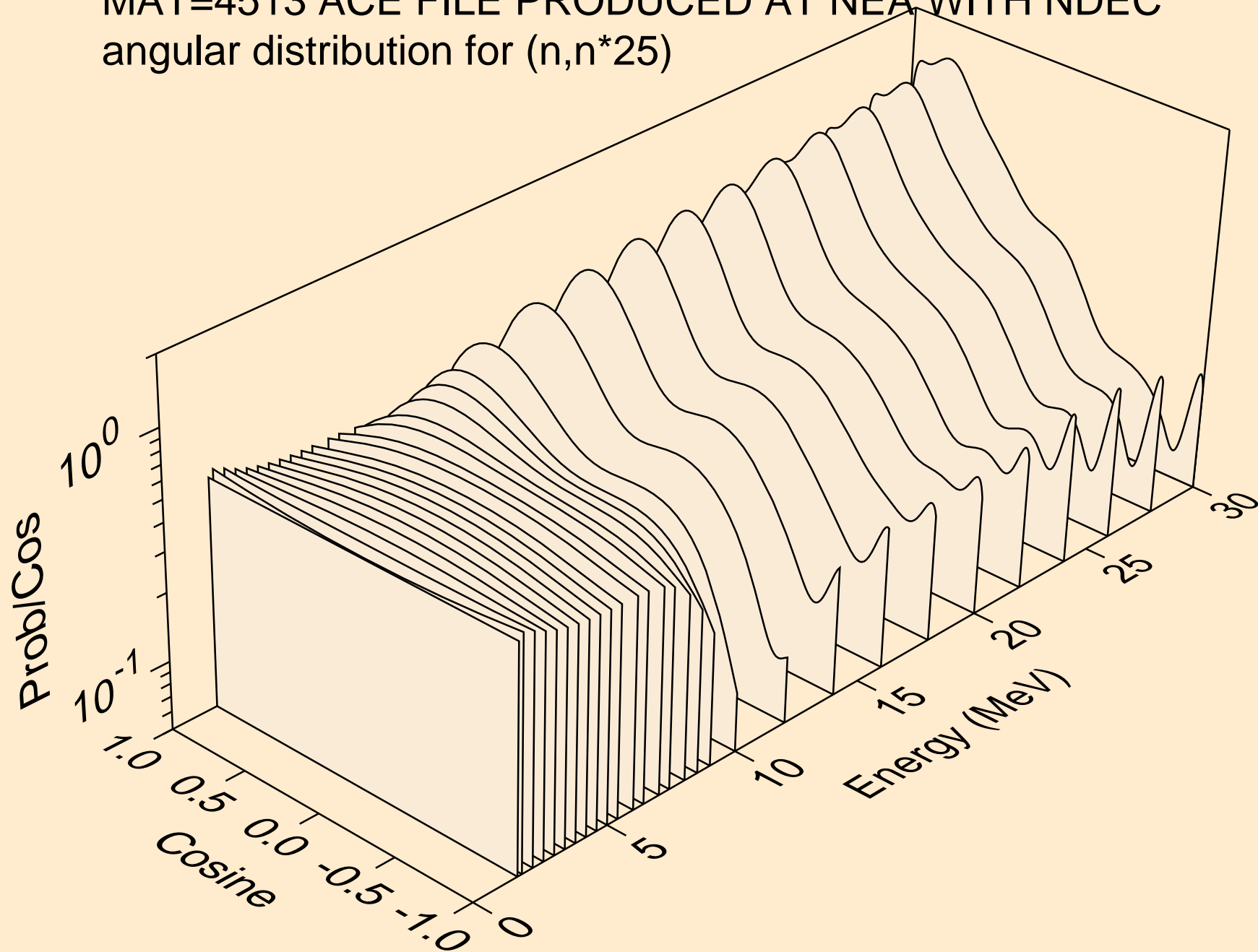
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angular distribution for (n,n\*23)



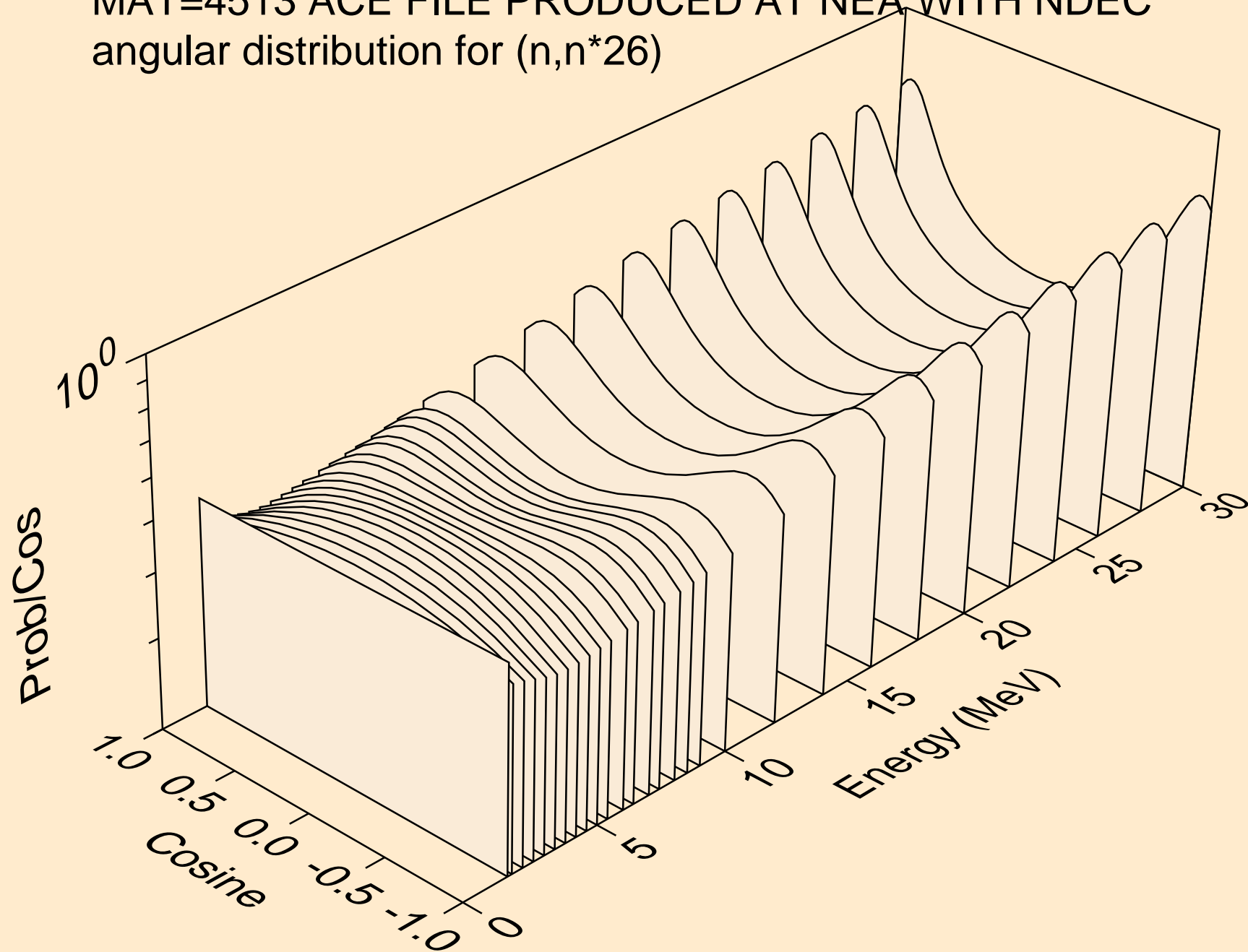
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angular distribution for (n,n\*24)



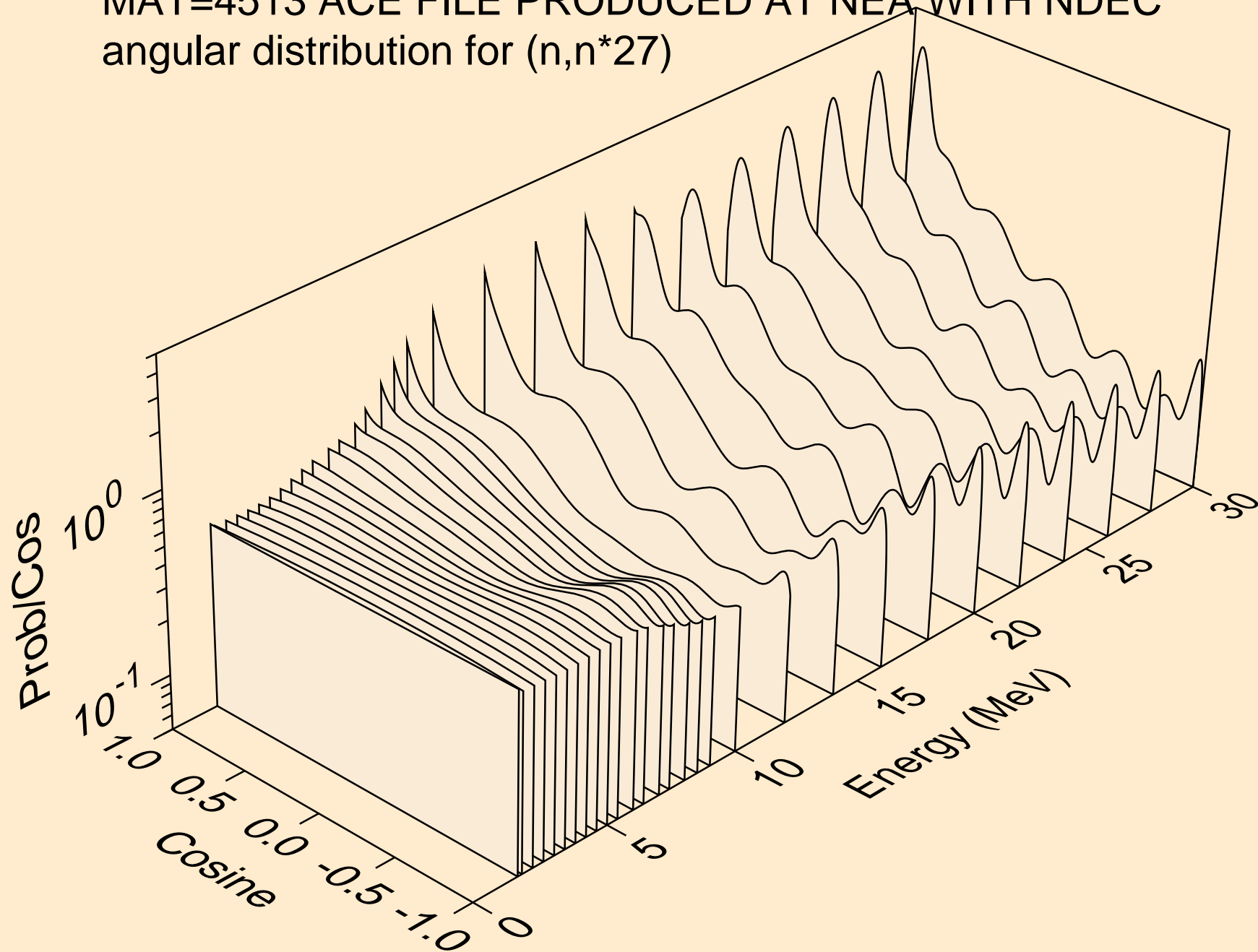
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angular distribution for (n,n\*25)



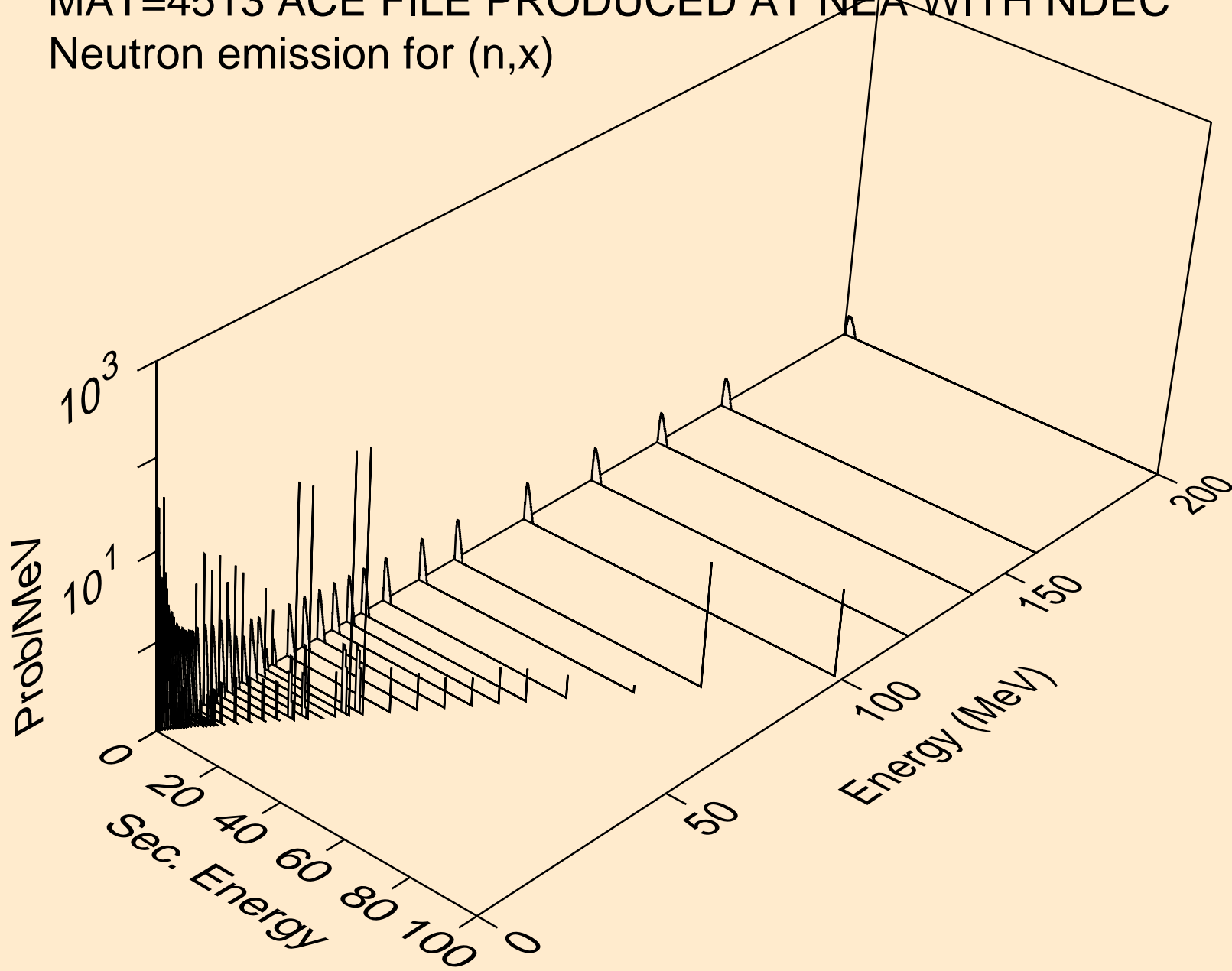
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angular distribution for (n,n\*26)



MAT=4513 ACE FILE PRODUCED AT NEA WITH NDEC  
angular distribution for (n,n\*27)

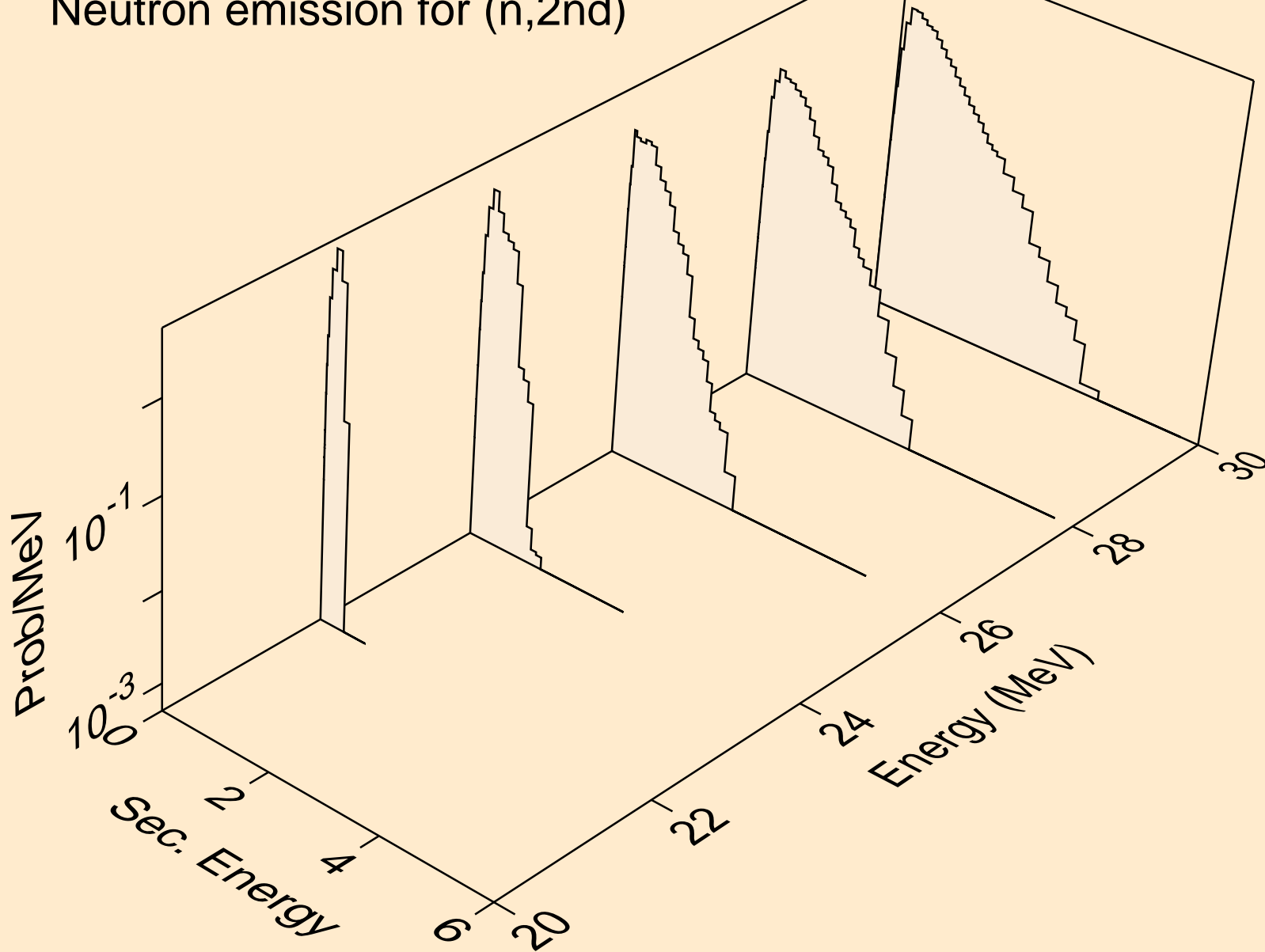


MAT=4513 ACE FILE PRODUCED AT NEA WITH NDEC  
Neutron emission for (n,x)

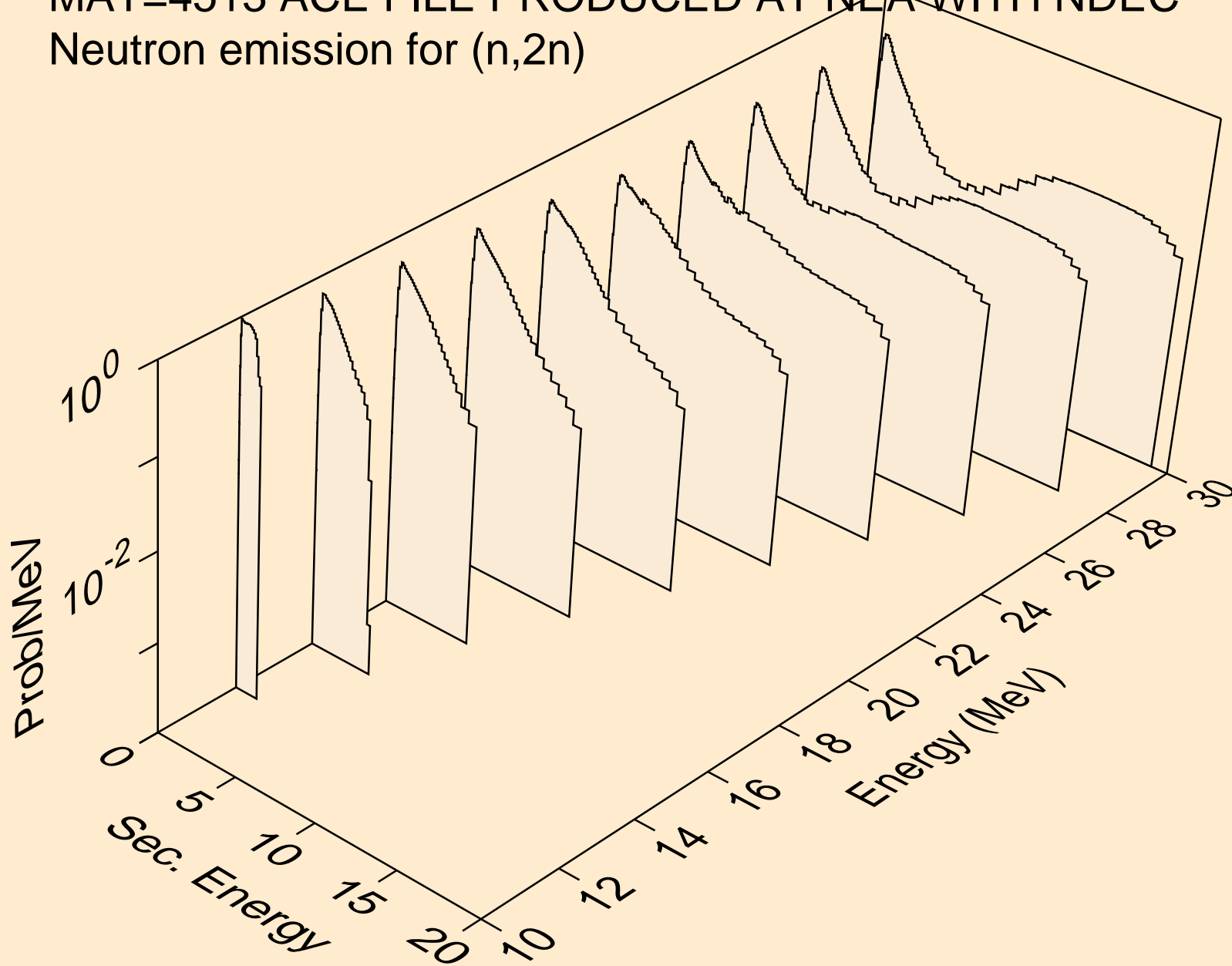




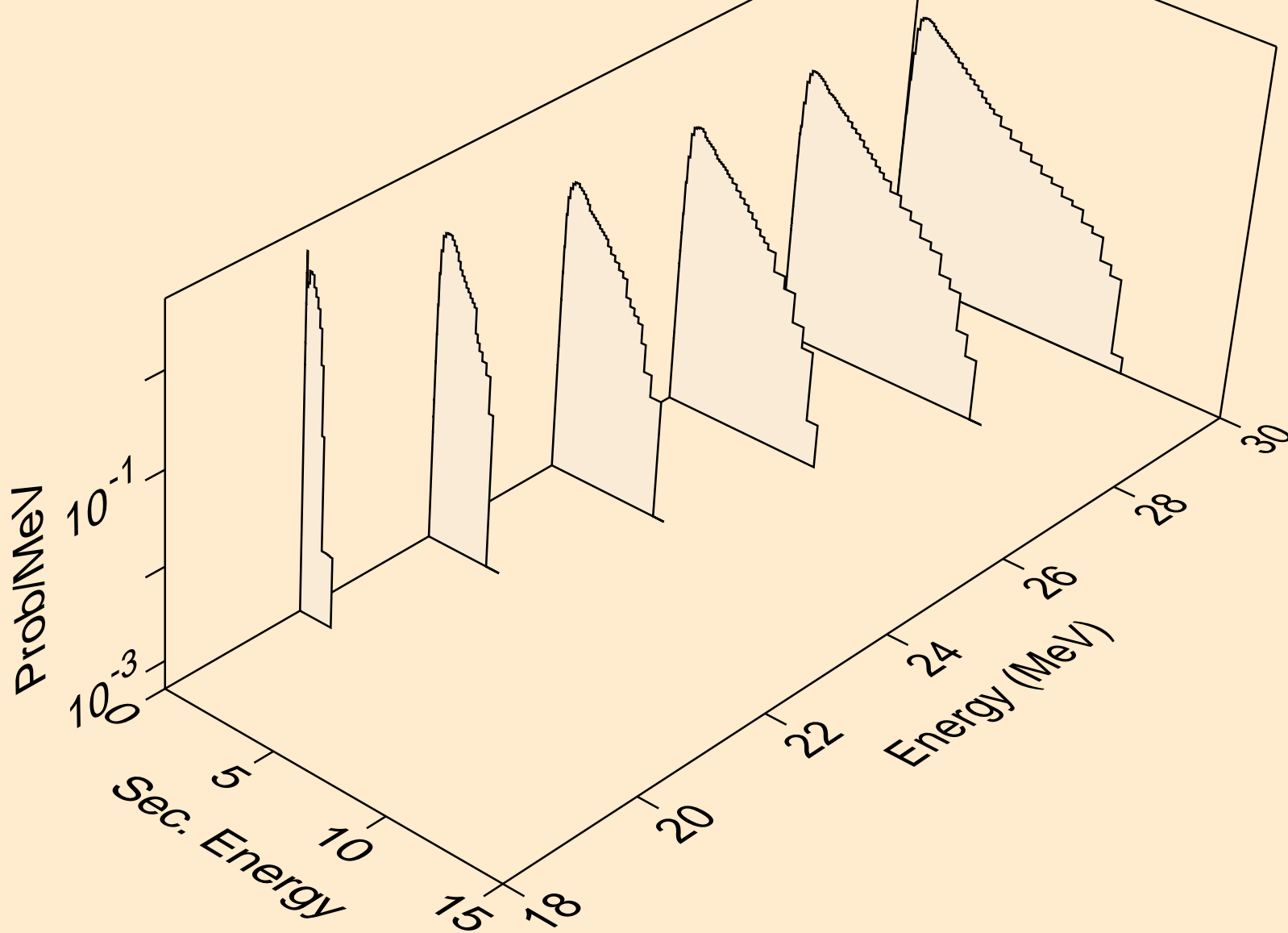
MAT=4513 ACE FILE PRODUCED AT NEA WITH NDEC  
Neutron emission for (n,2nd)



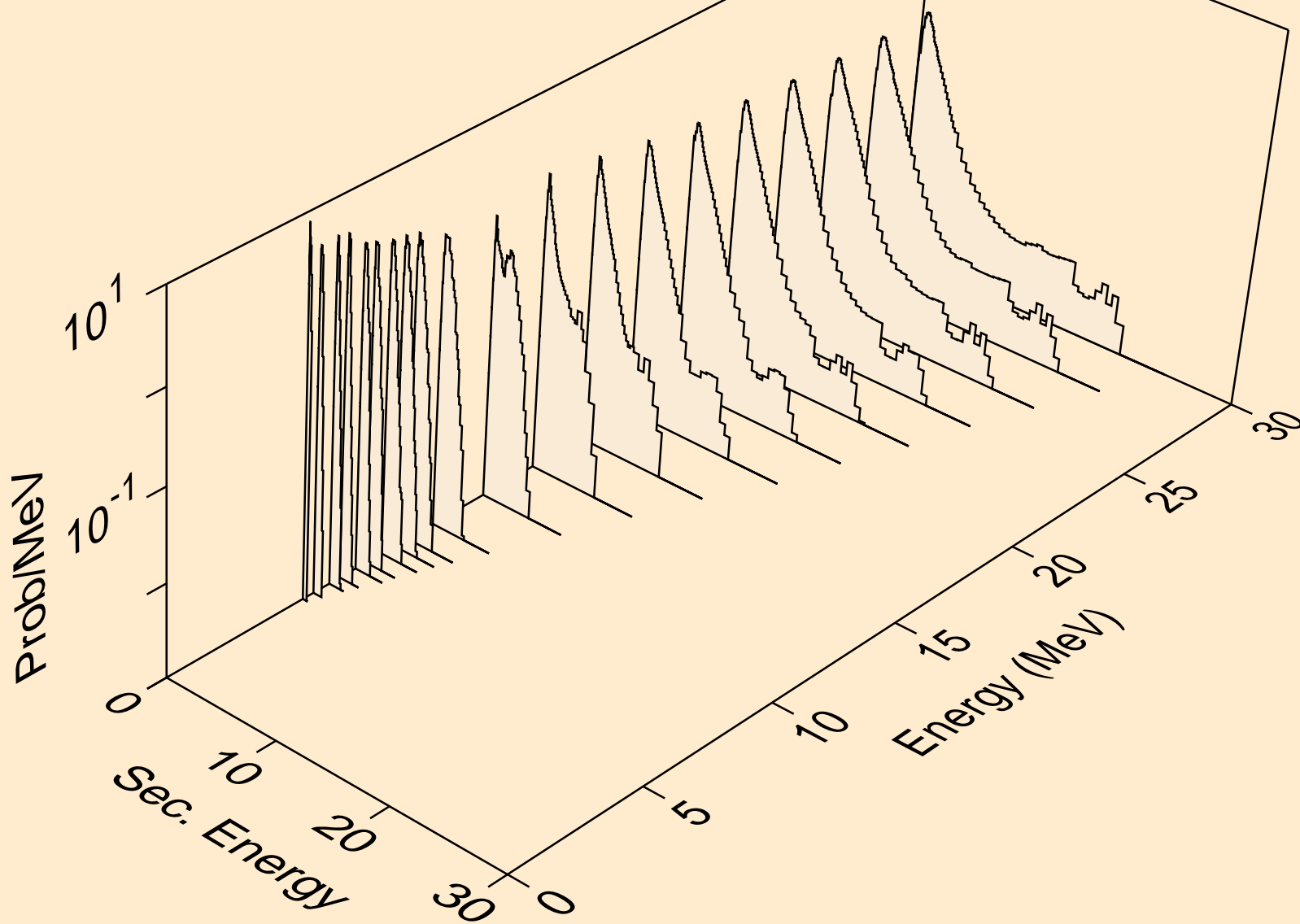
MAT=4513 ACE FILE PRODUCED AT NEA WITH NDEC  
Neutron emission for (n,2n)



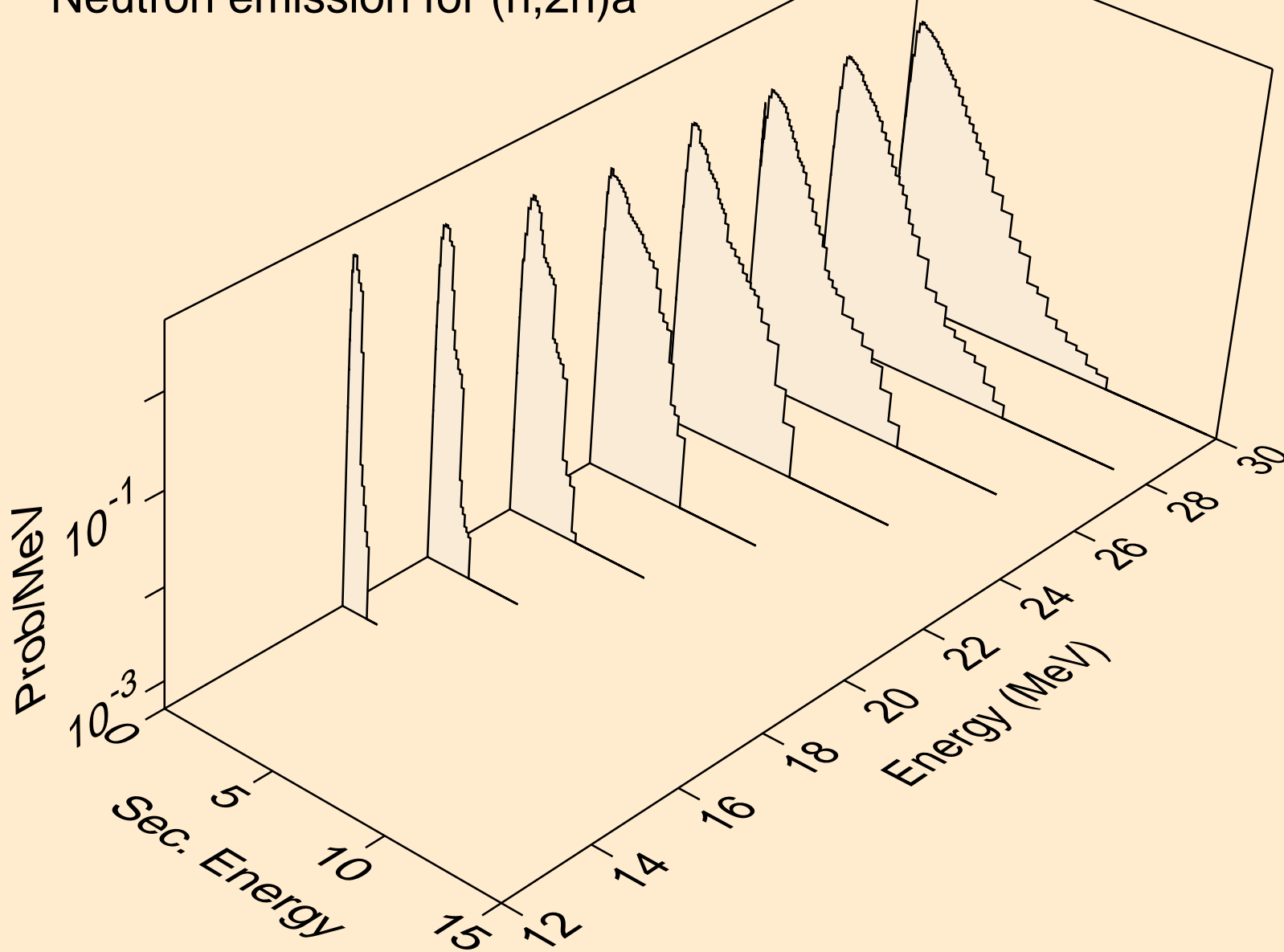
MAT=4513 ACE FILE PRODUCED AT NEA WITH NDEC  
Neutron emission for (n,3n)



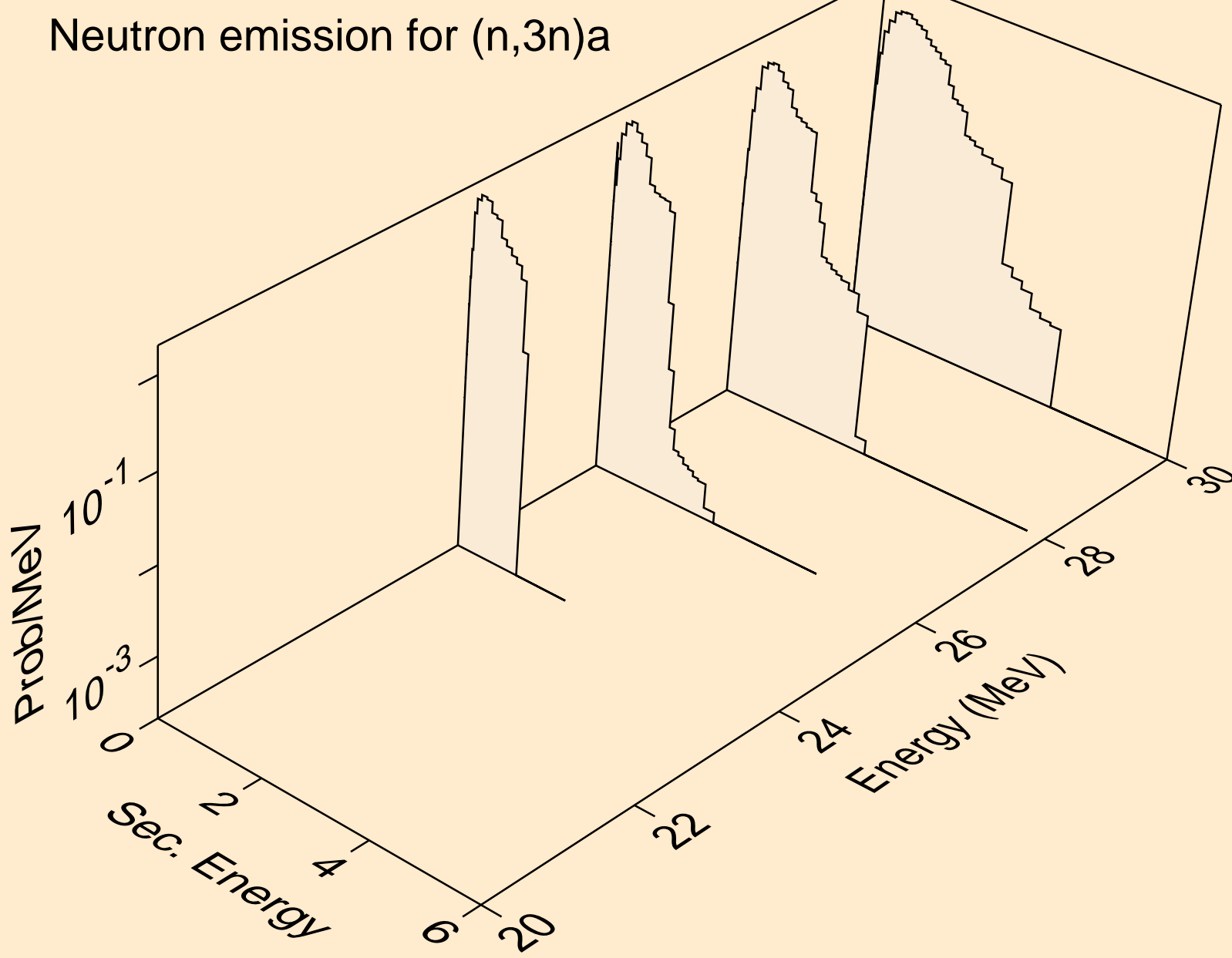
MAT=4513 ACE FILE PRODUCED AT NEA WITH NDEC  
Neutron emission for (n,n\*)a



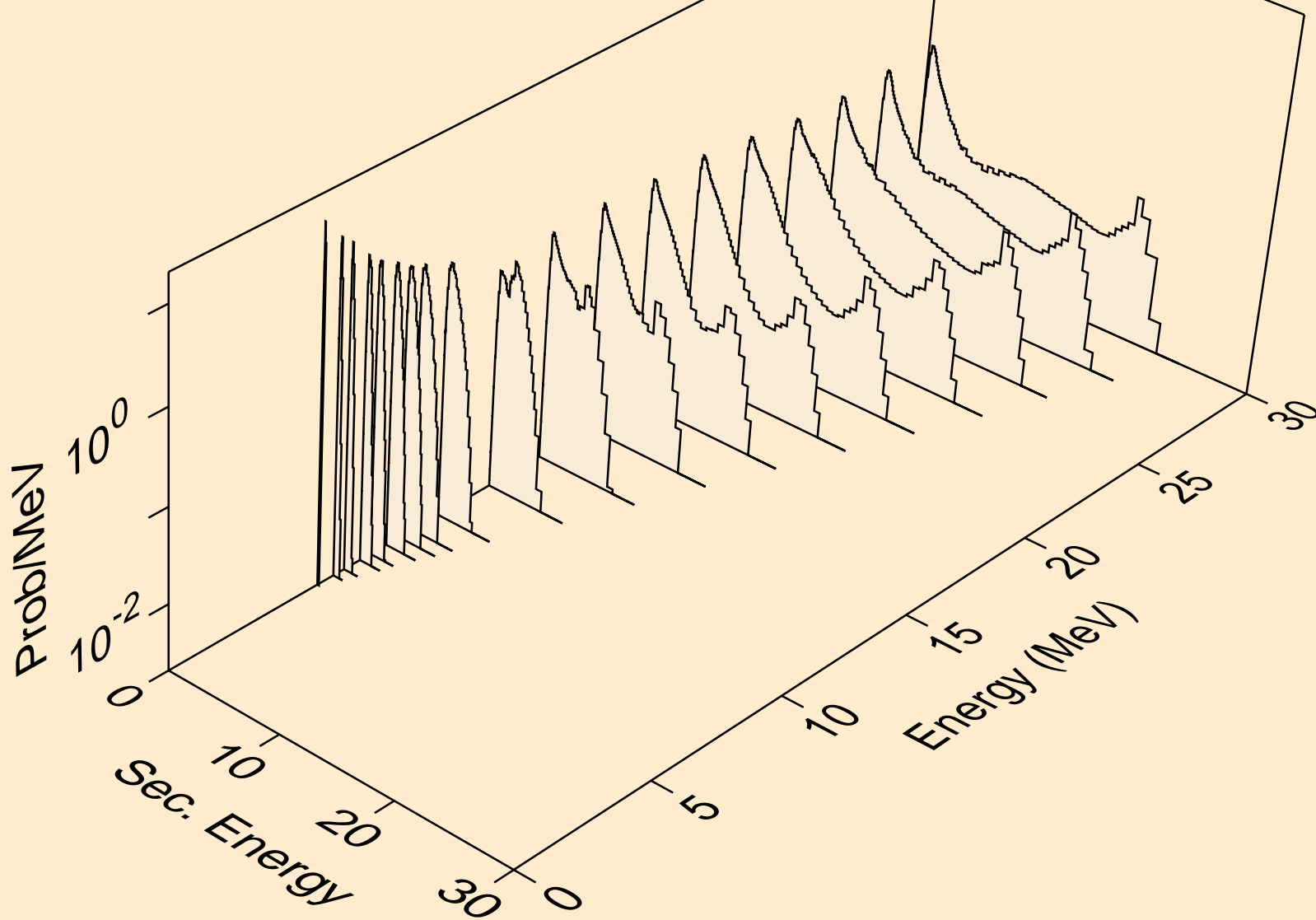
MAT=4513 ACE FILE PRODUCED AT NEA WITH NDEC  
Neutron emission for (n,2n)a



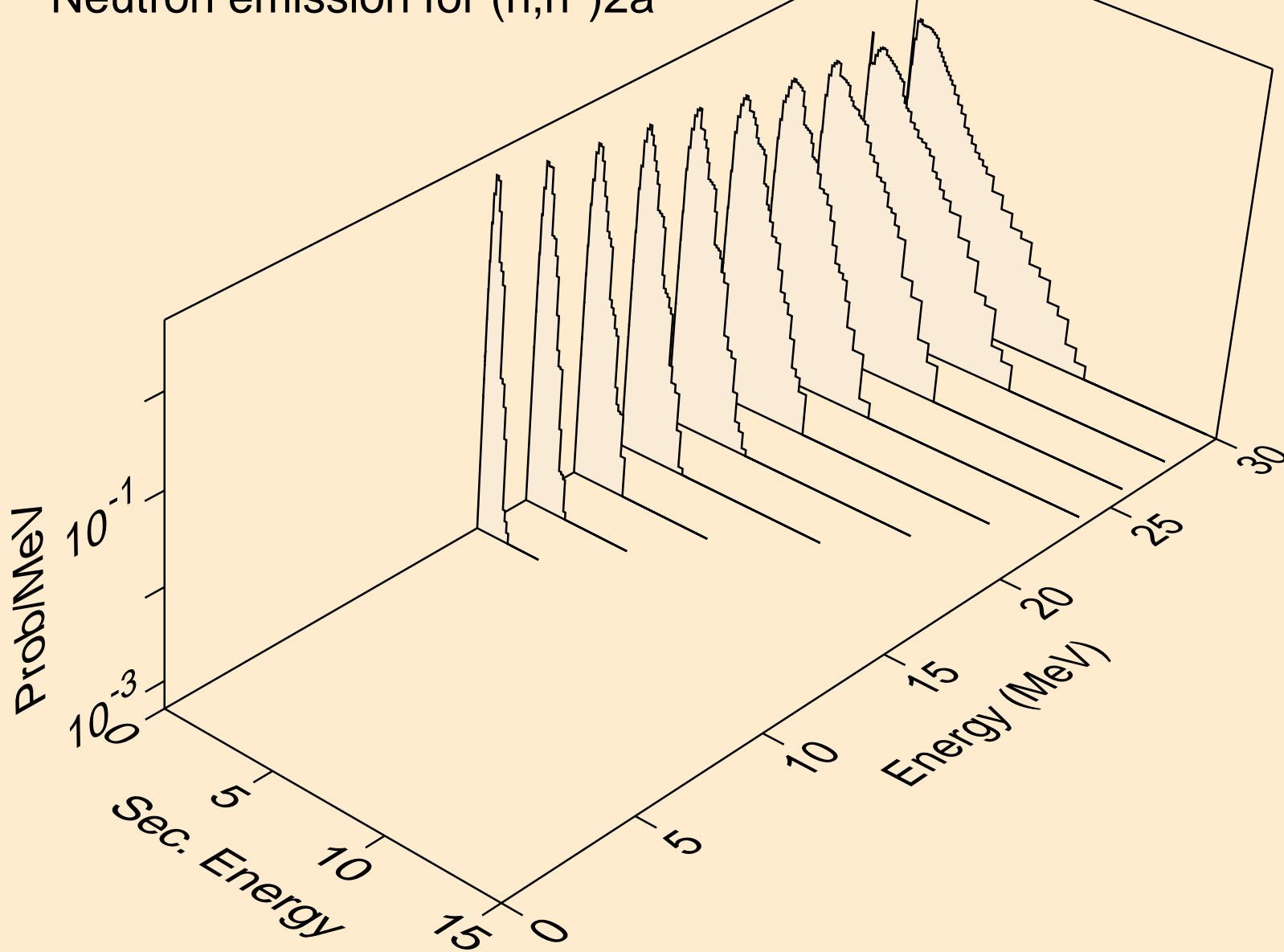
MAT=4513 ACE FILE PRODUCED AT NEA WITH NDEC  
Neutron emission for (n,3n)a



MAT=4513 ACE FILE PRODUCED AT NEA WITH NDEC  
Neutron emission for (n,n\*)p

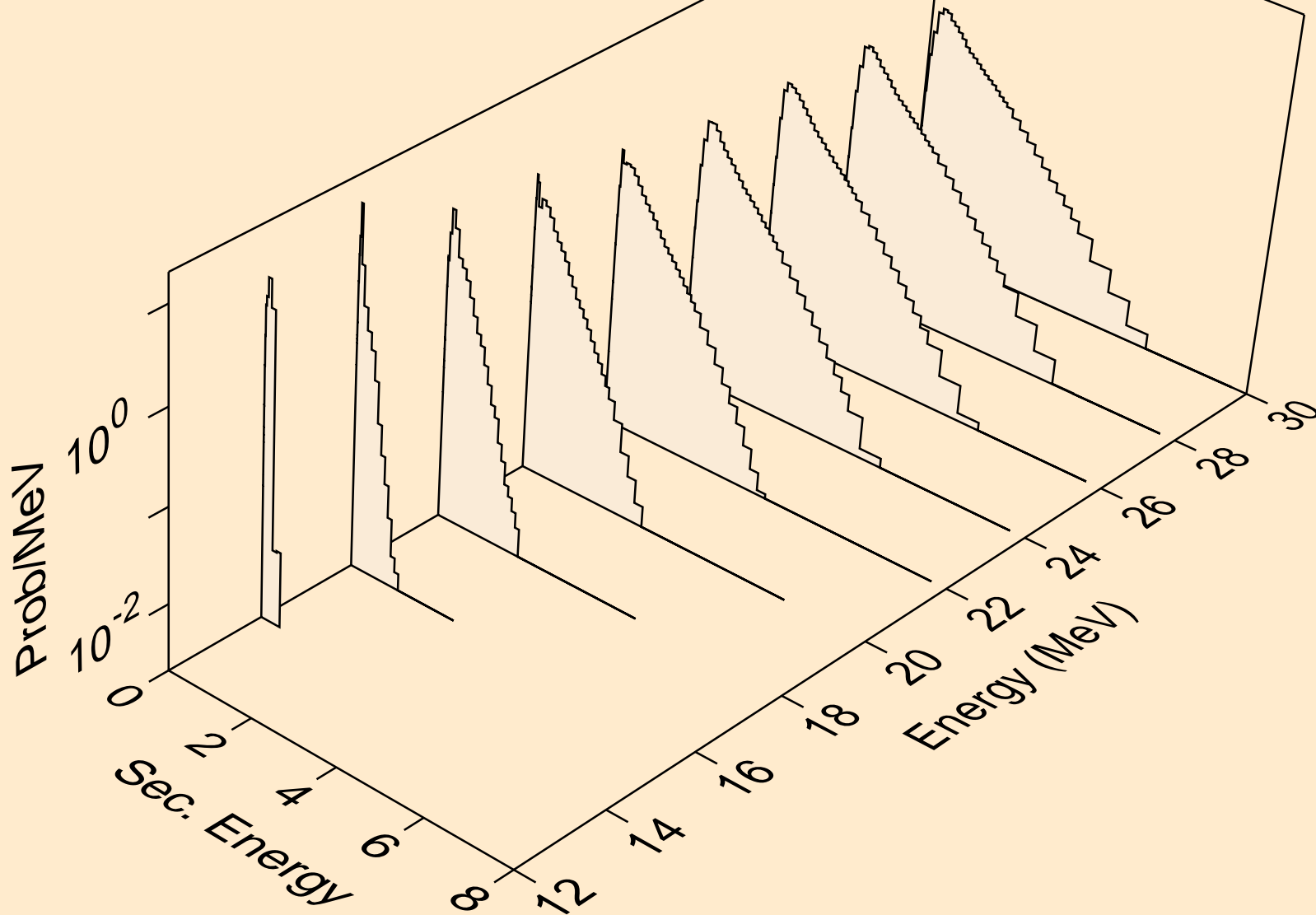


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Neutron emission for (n,n\*)2a

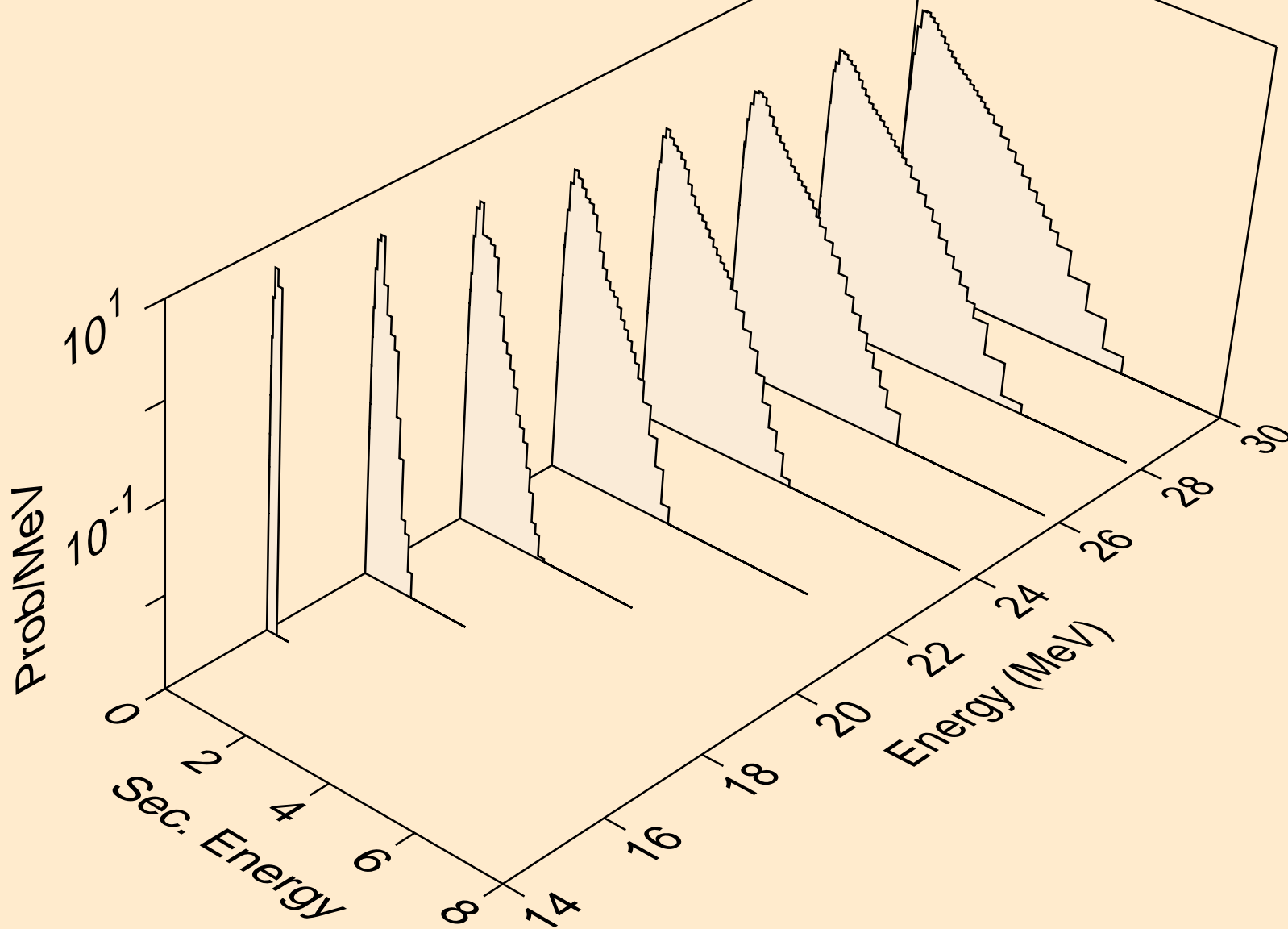




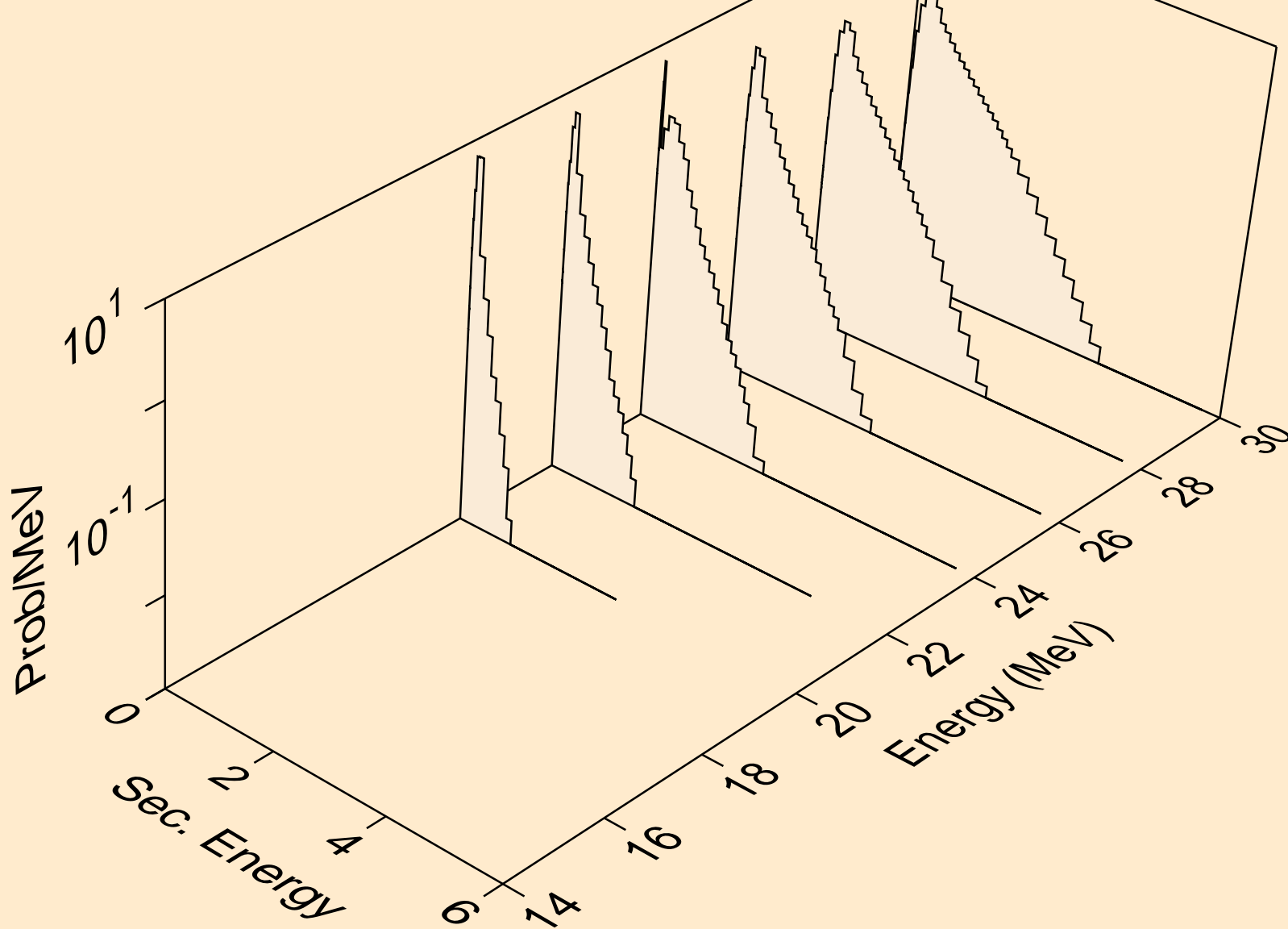
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Neutron emission for (n,n\*)d



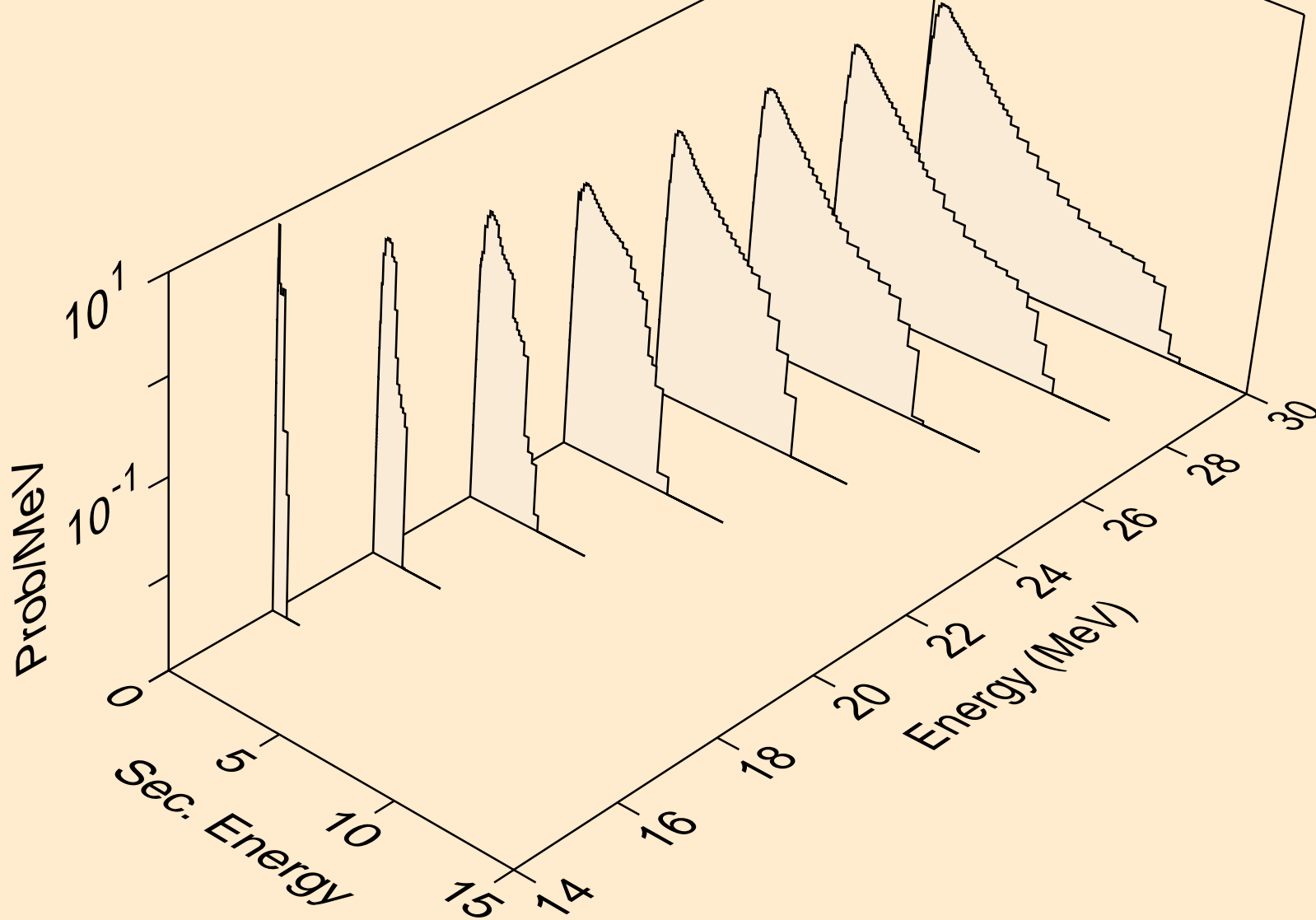
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Neutron emission for (n,n\*)t



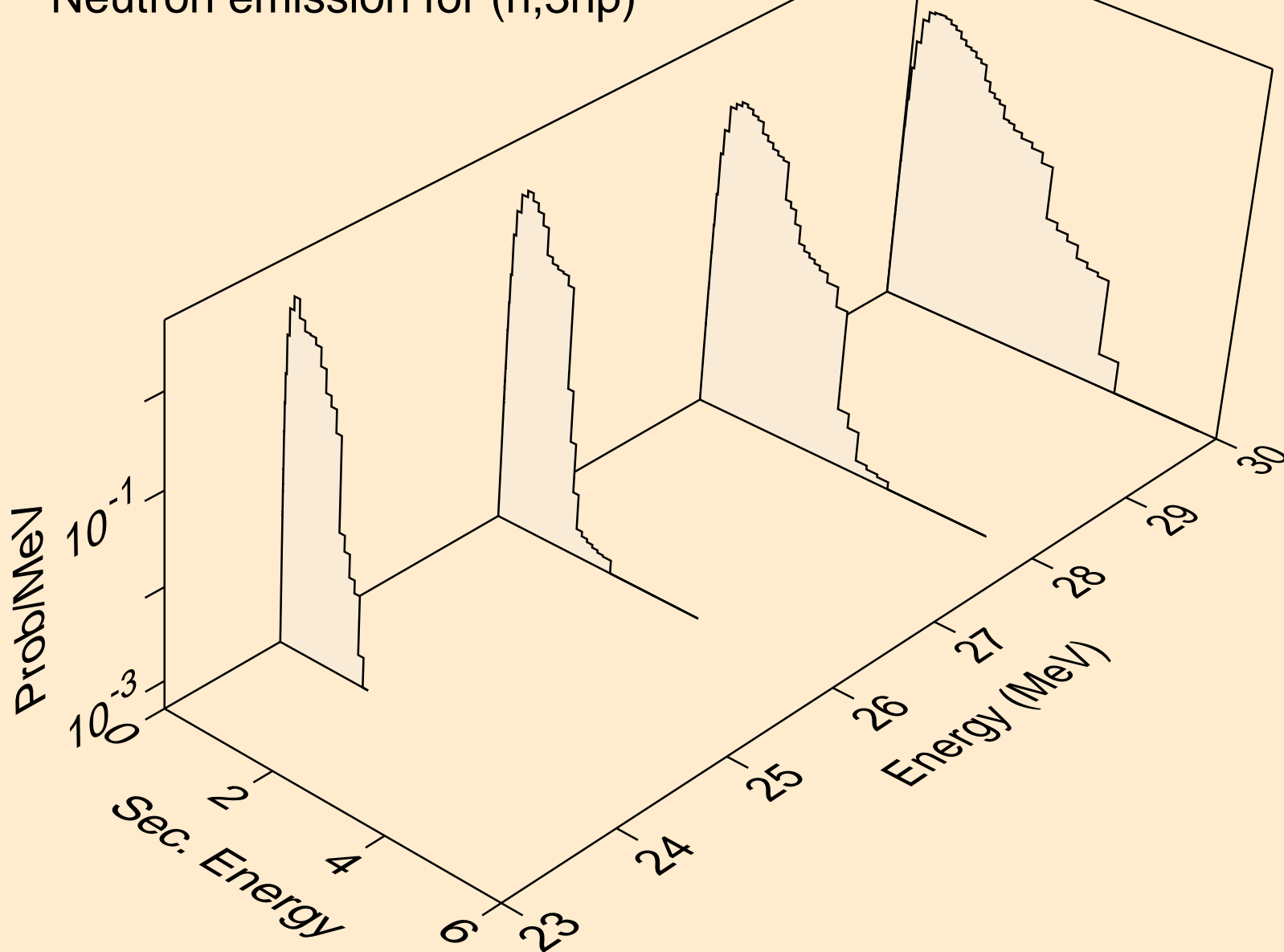
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Neutron emission for (n,n\*)he3



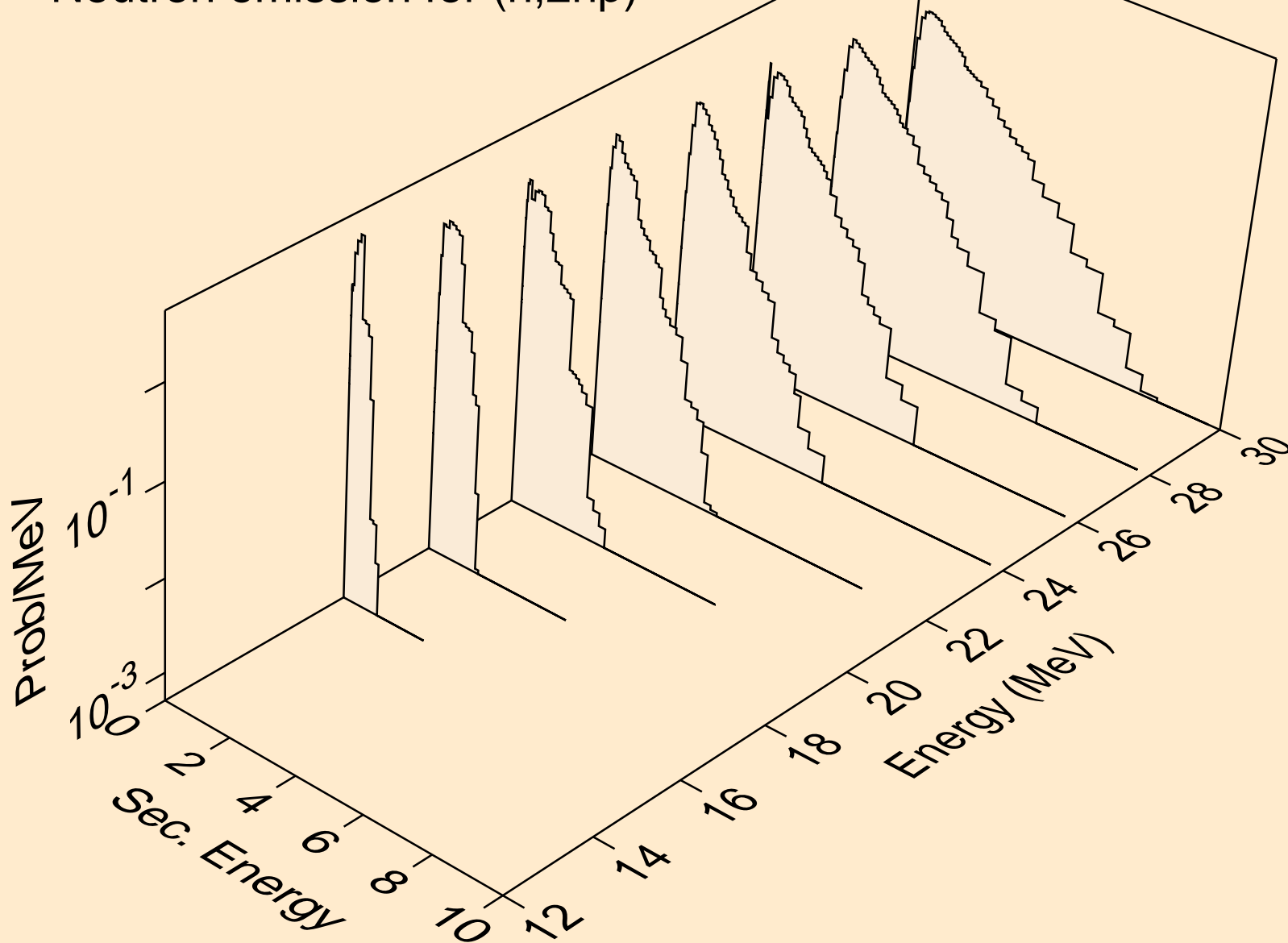
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Neutron emission for (n,2np)



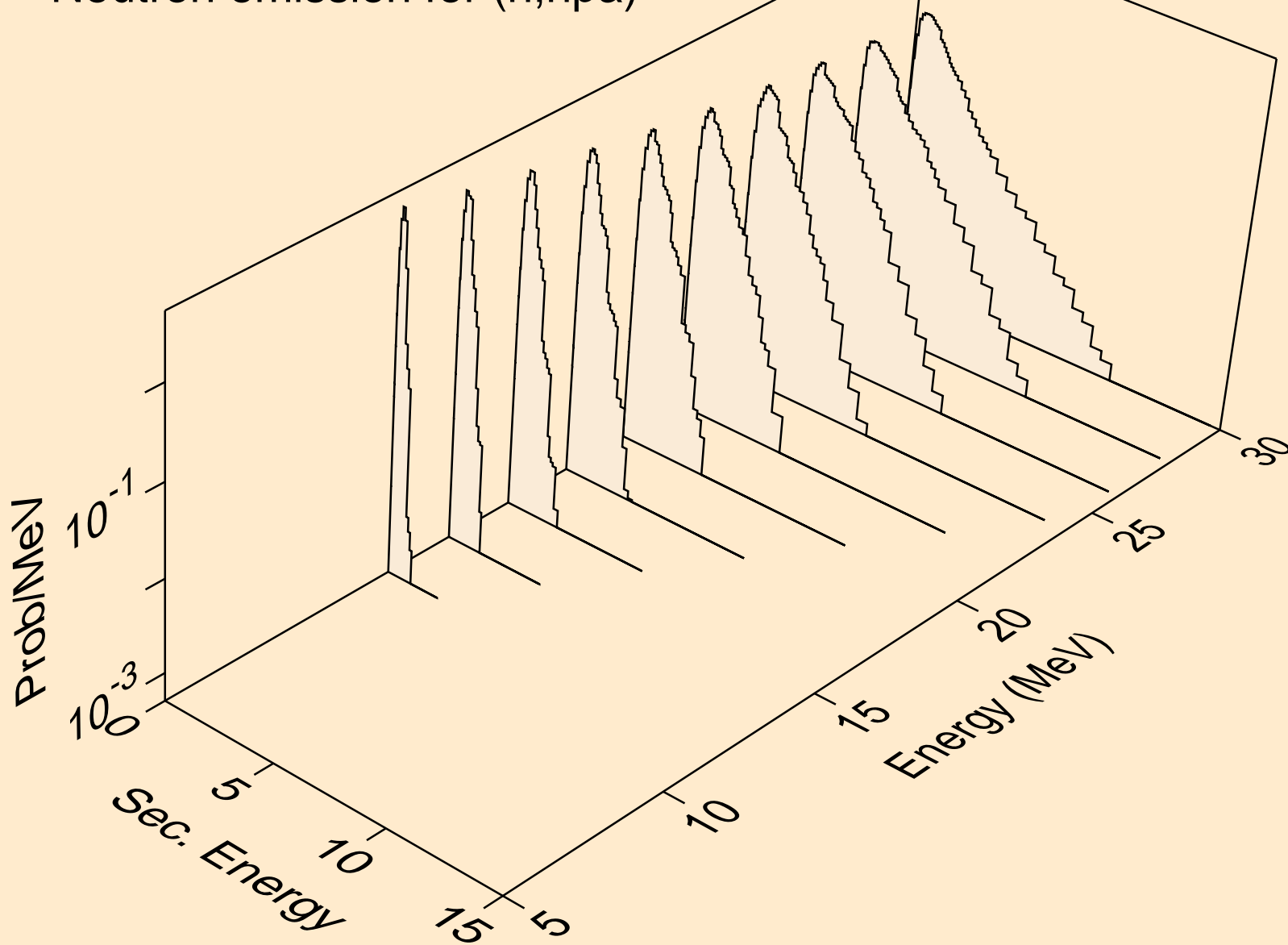
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Neutron emission for (n,3np)



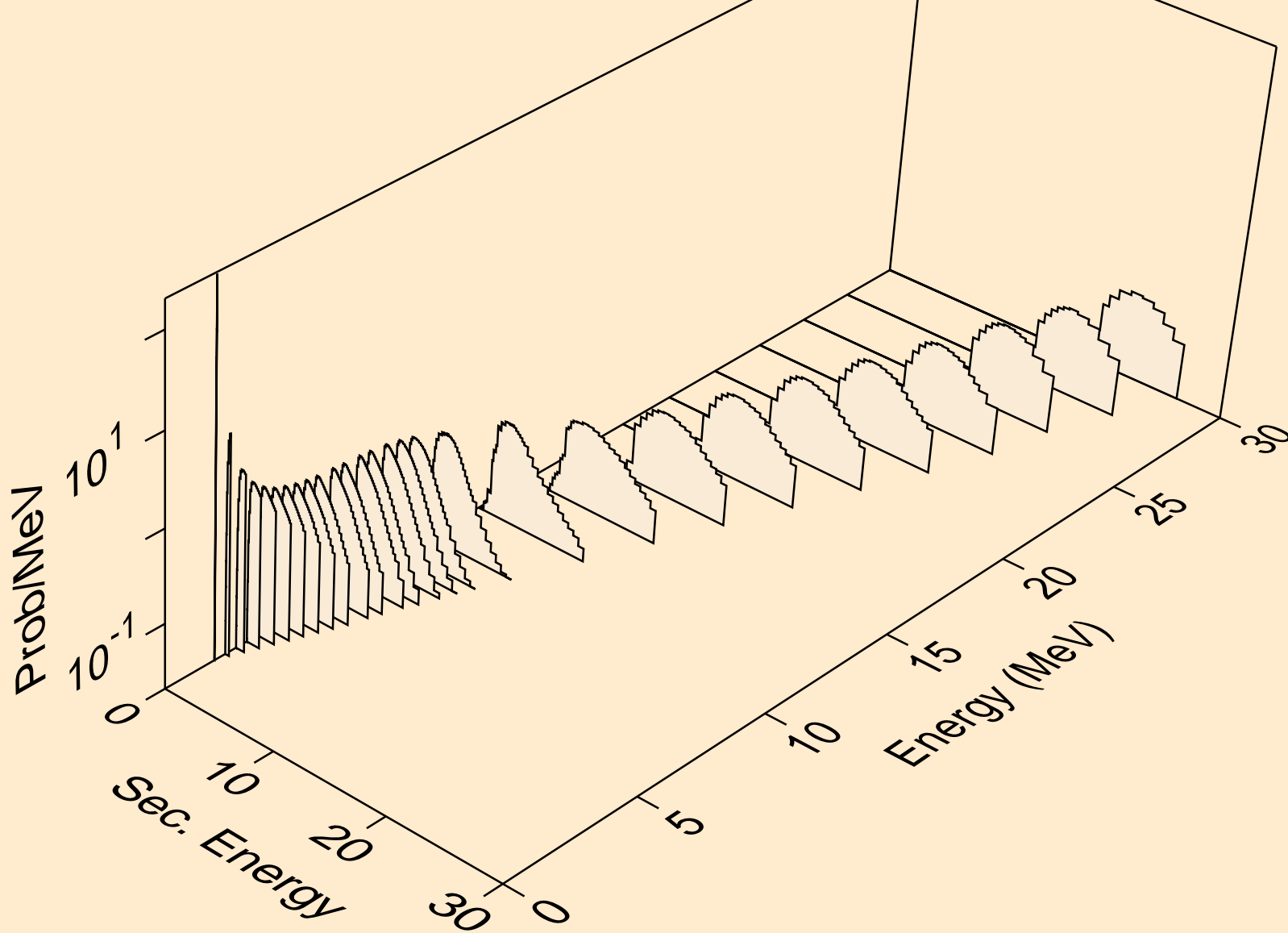
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Neutron emission for (n,2np)



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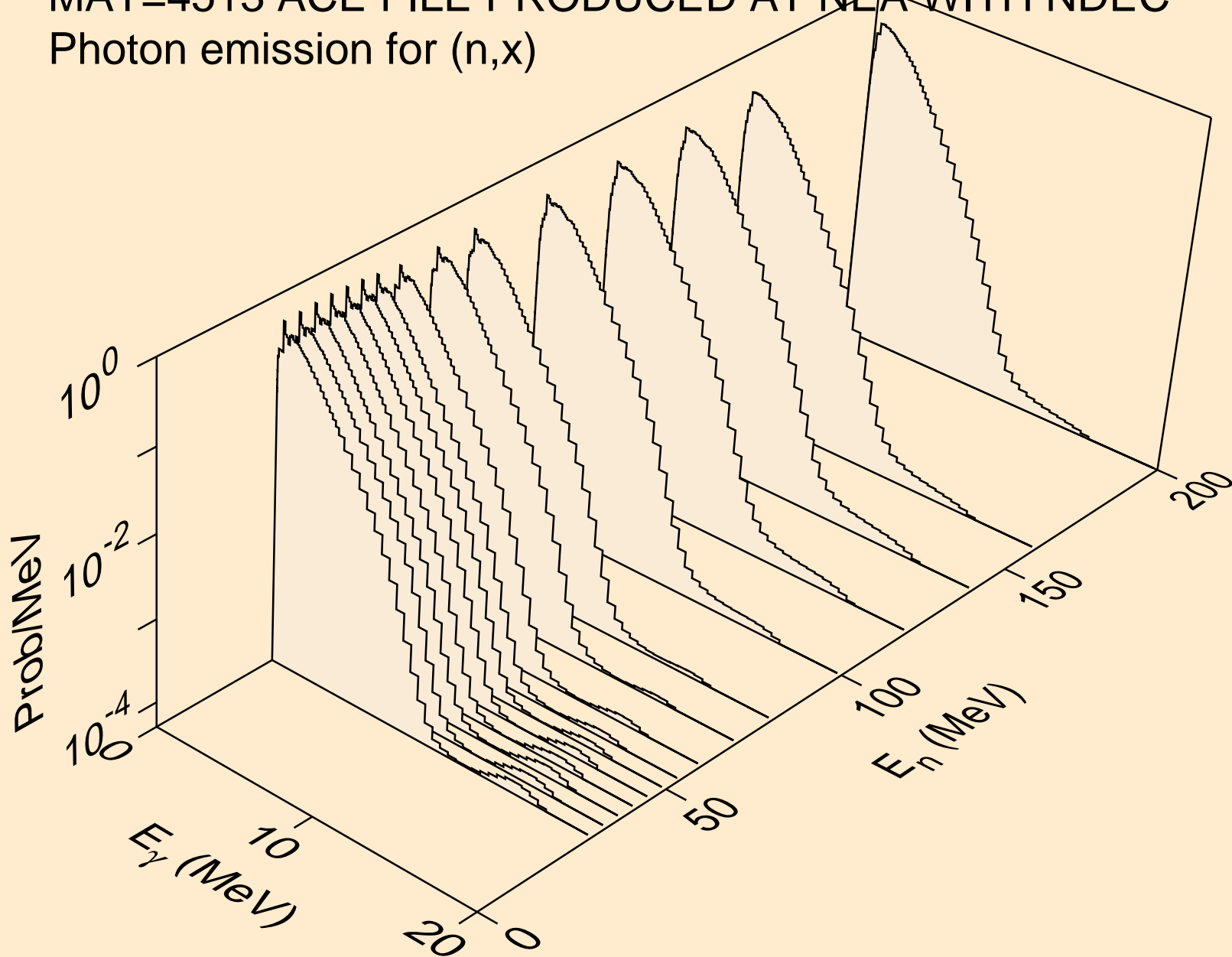


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Neutron emission for (n,n\*c)

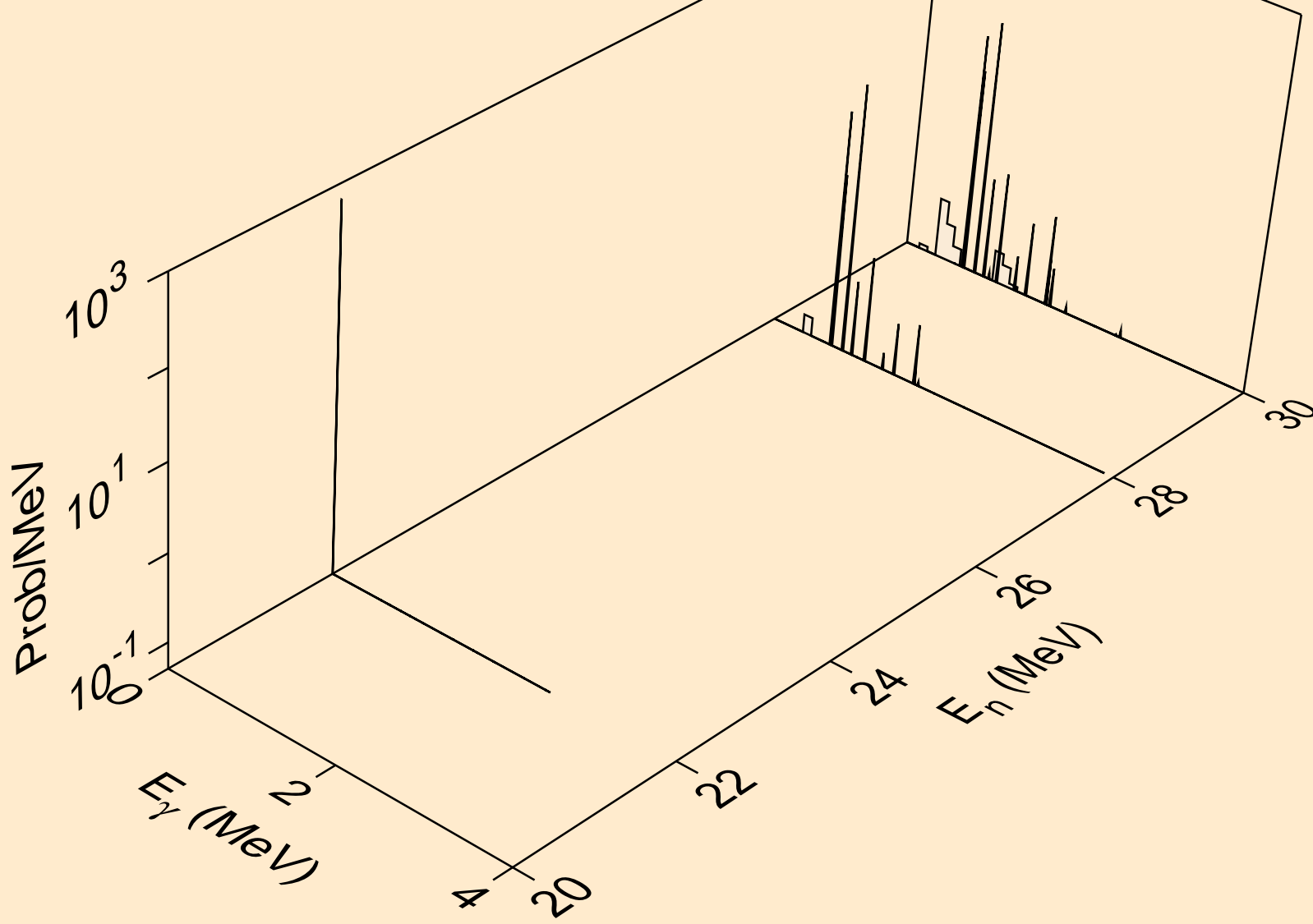




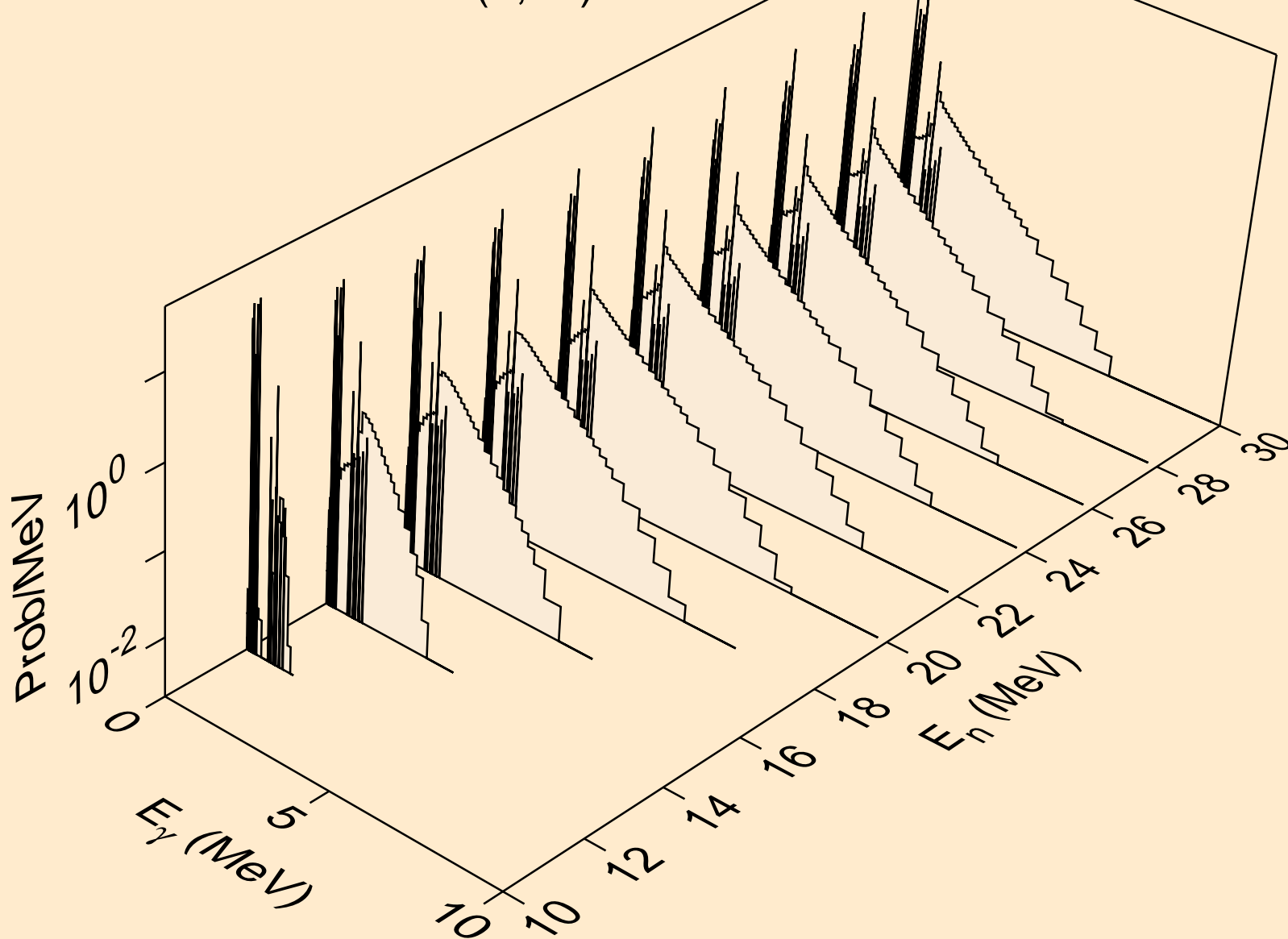
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Photon emission for (n,x)



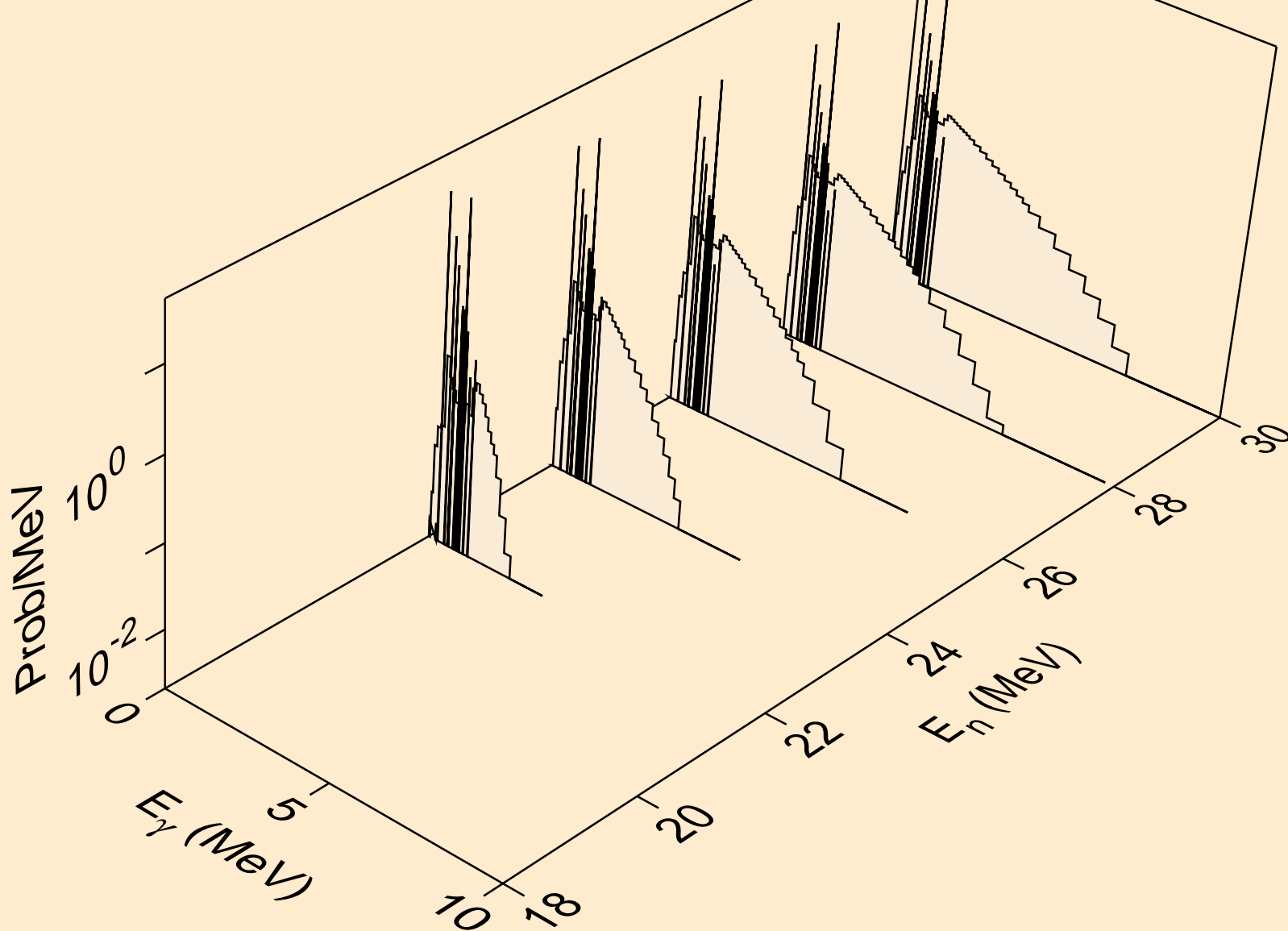
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Photon emission for (n,2nd)



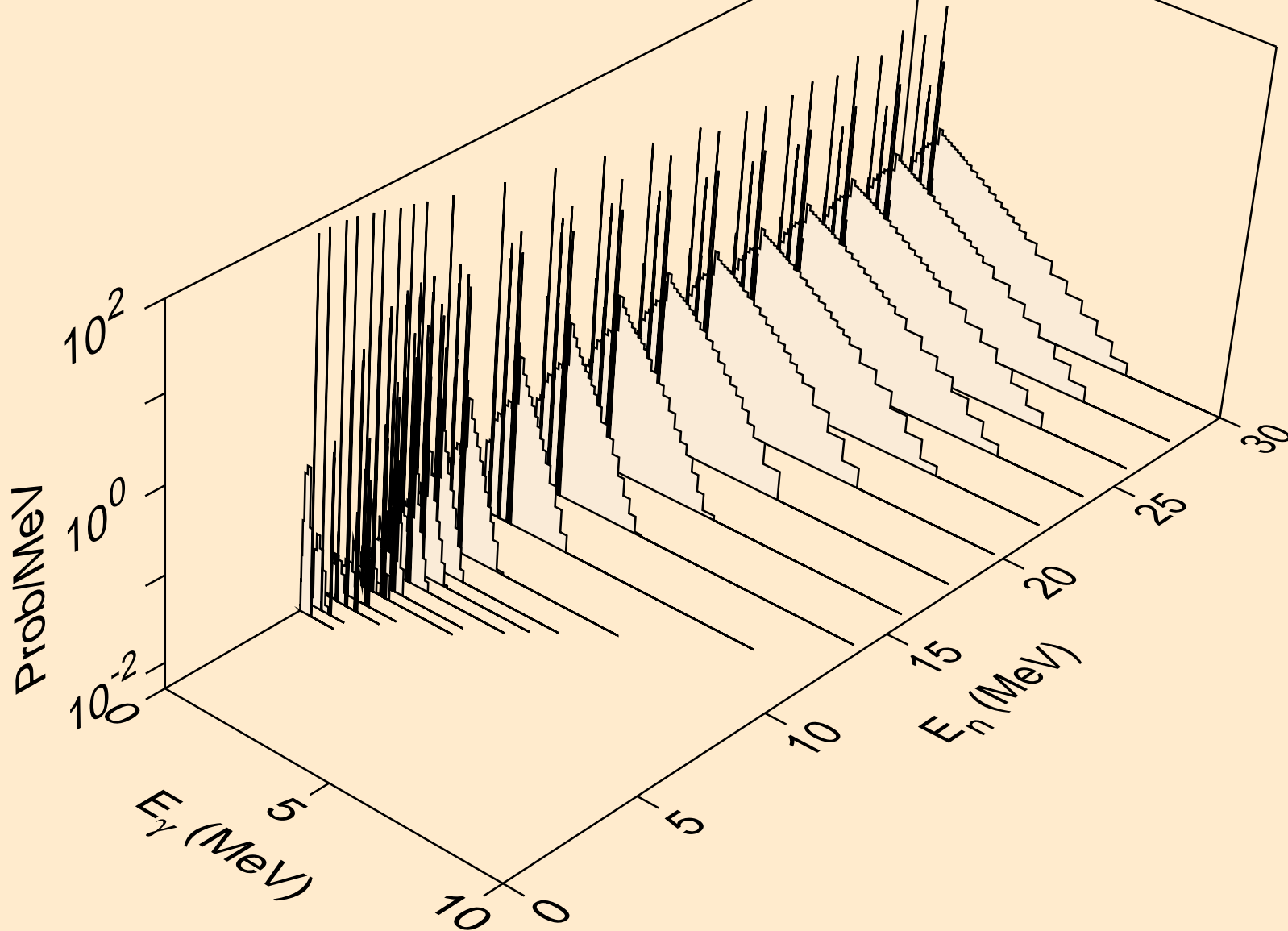
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Photon emission for (n,2n)



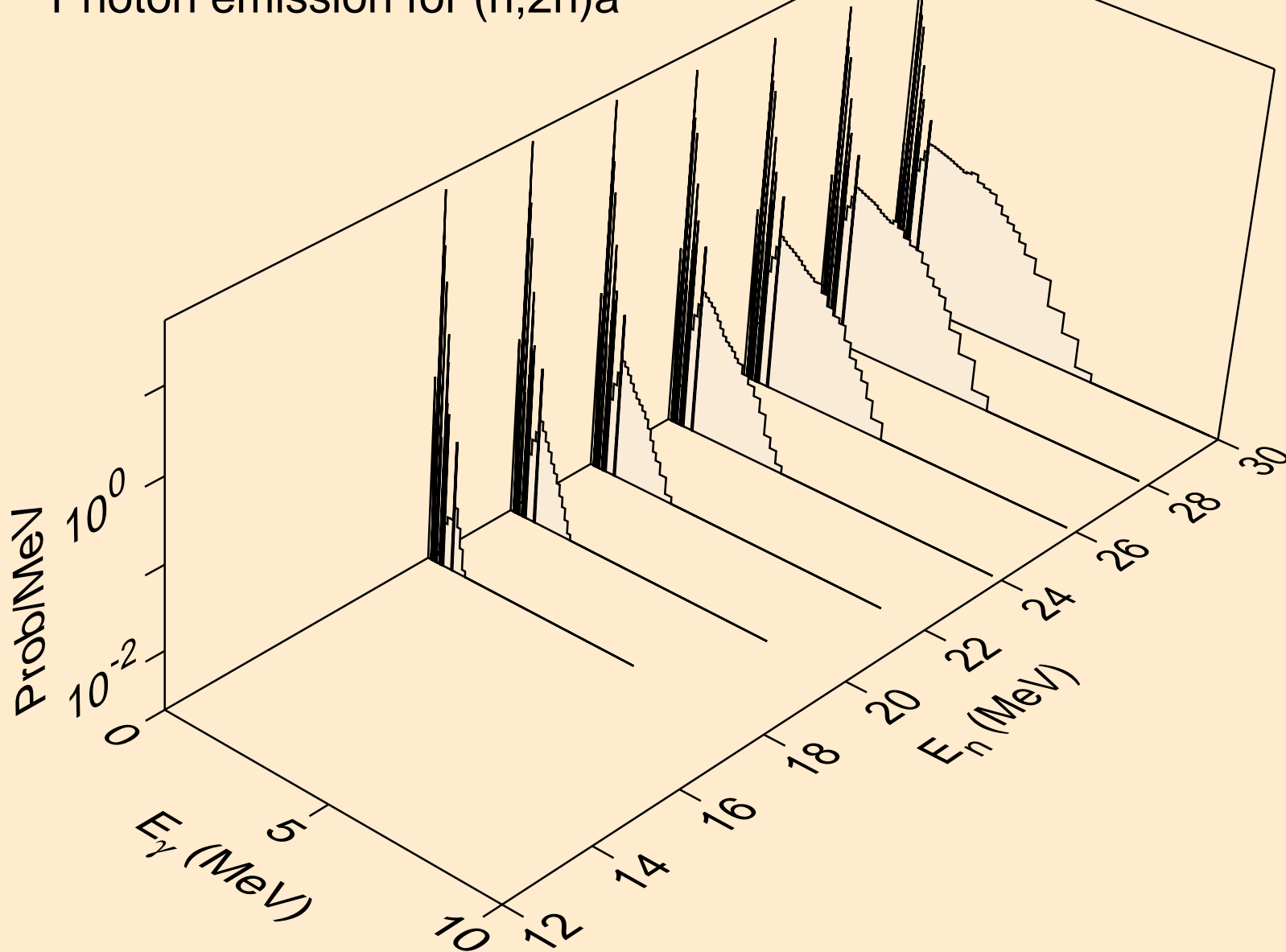
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Photon emission for (n,3n)



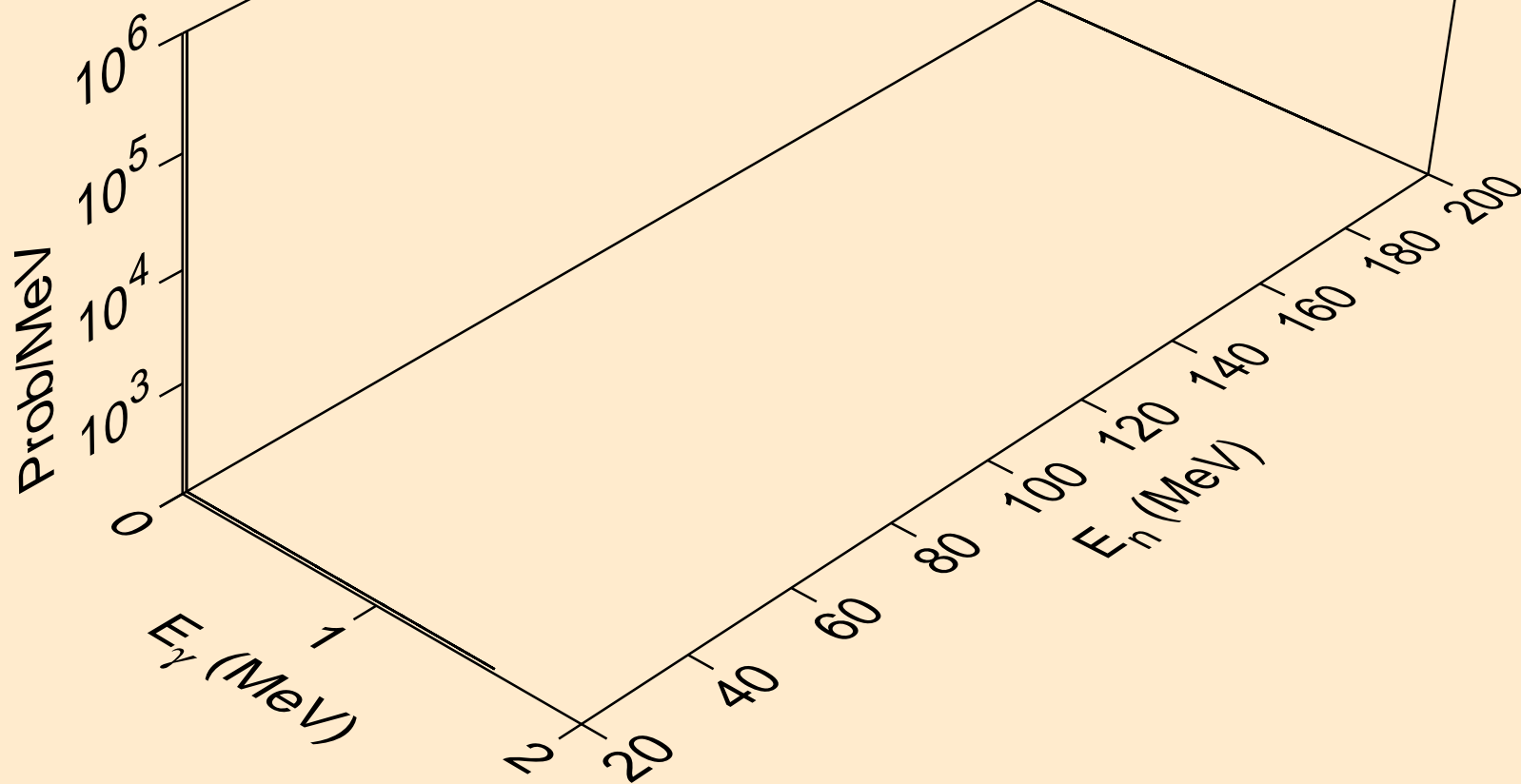
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Photon emission for (n,n\*)a



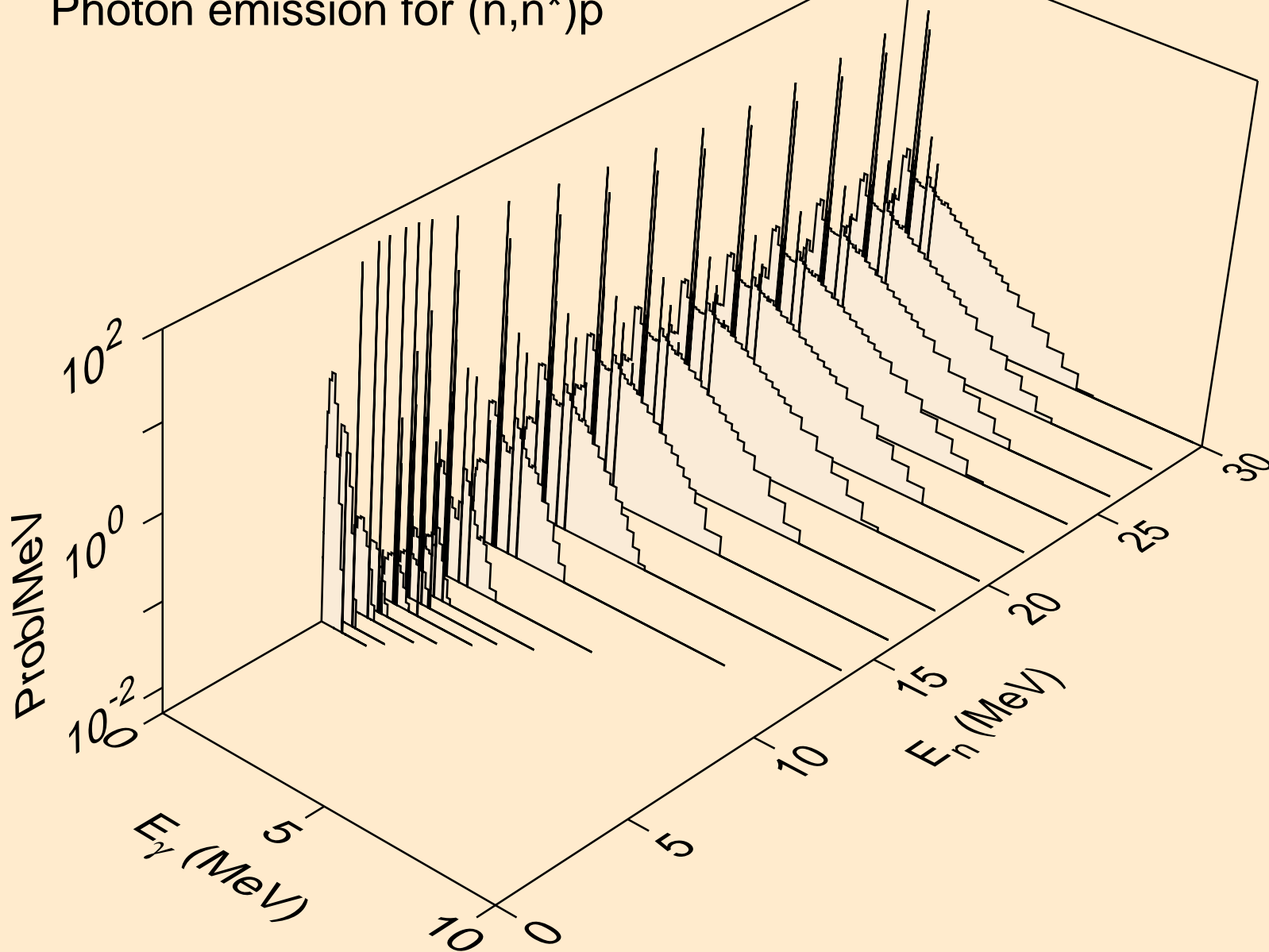
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Photon emission for (n,2n)a



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Photon emission for (n,3n)a

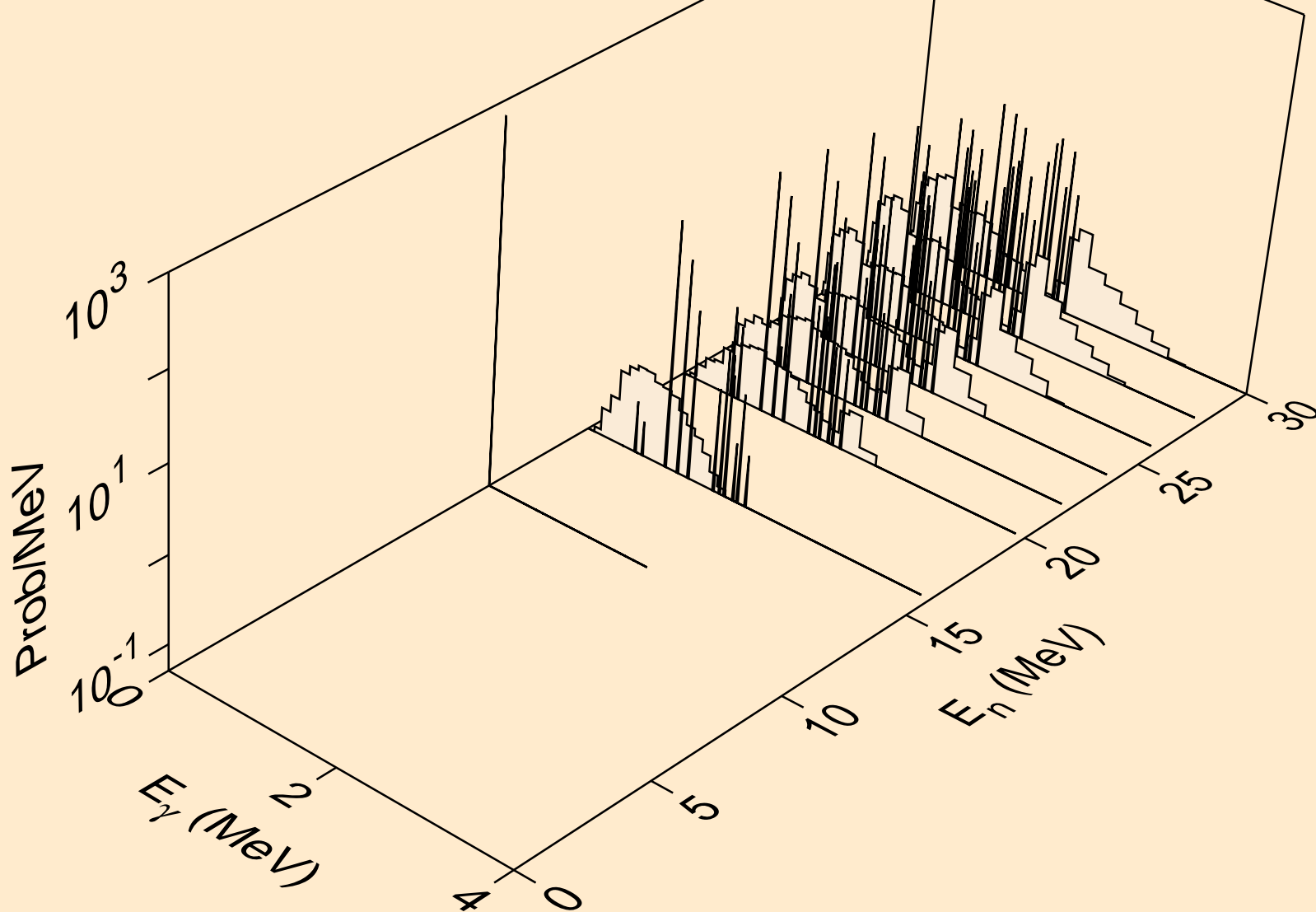


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Photon emission for (n,n\*)p

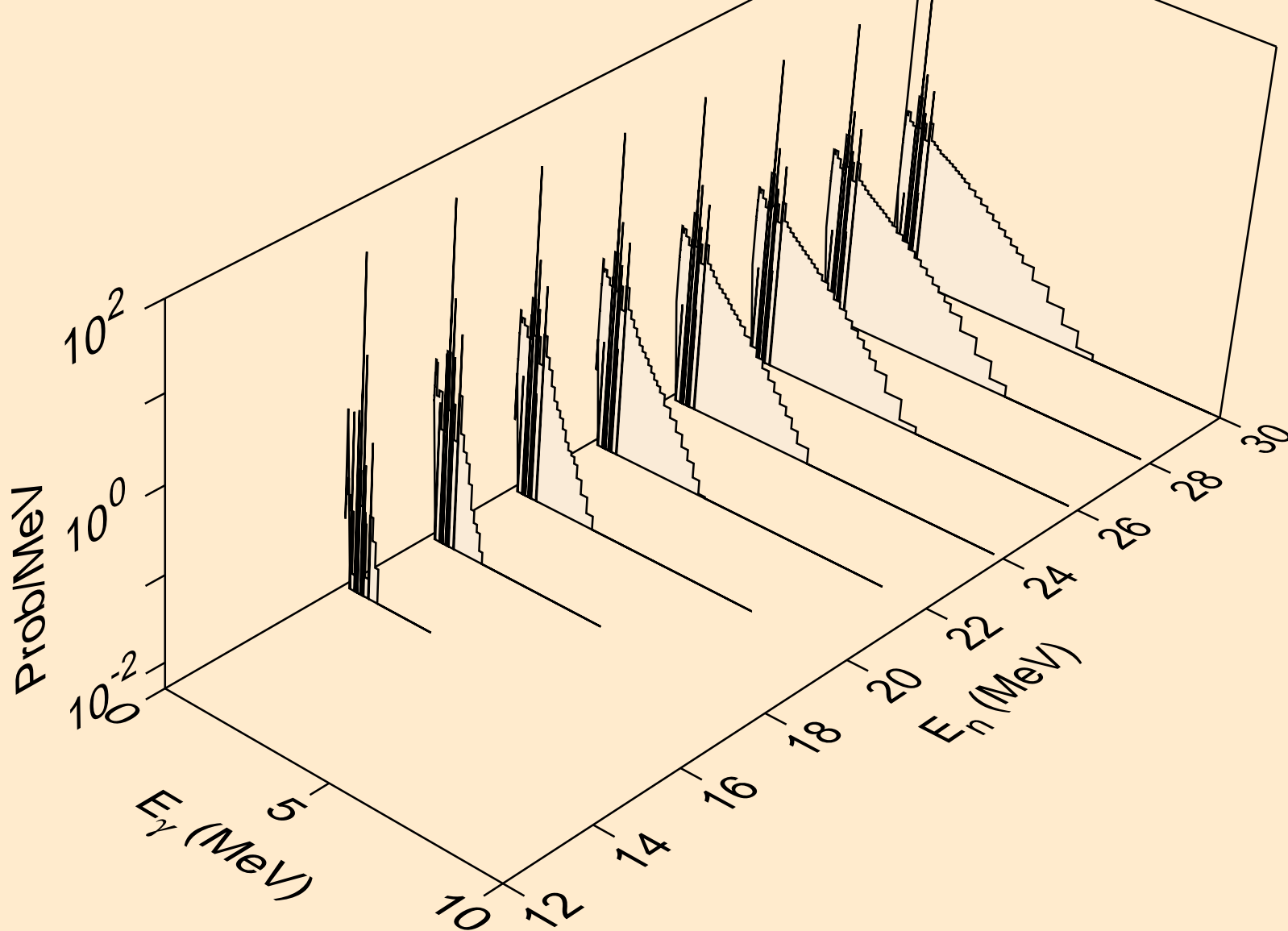




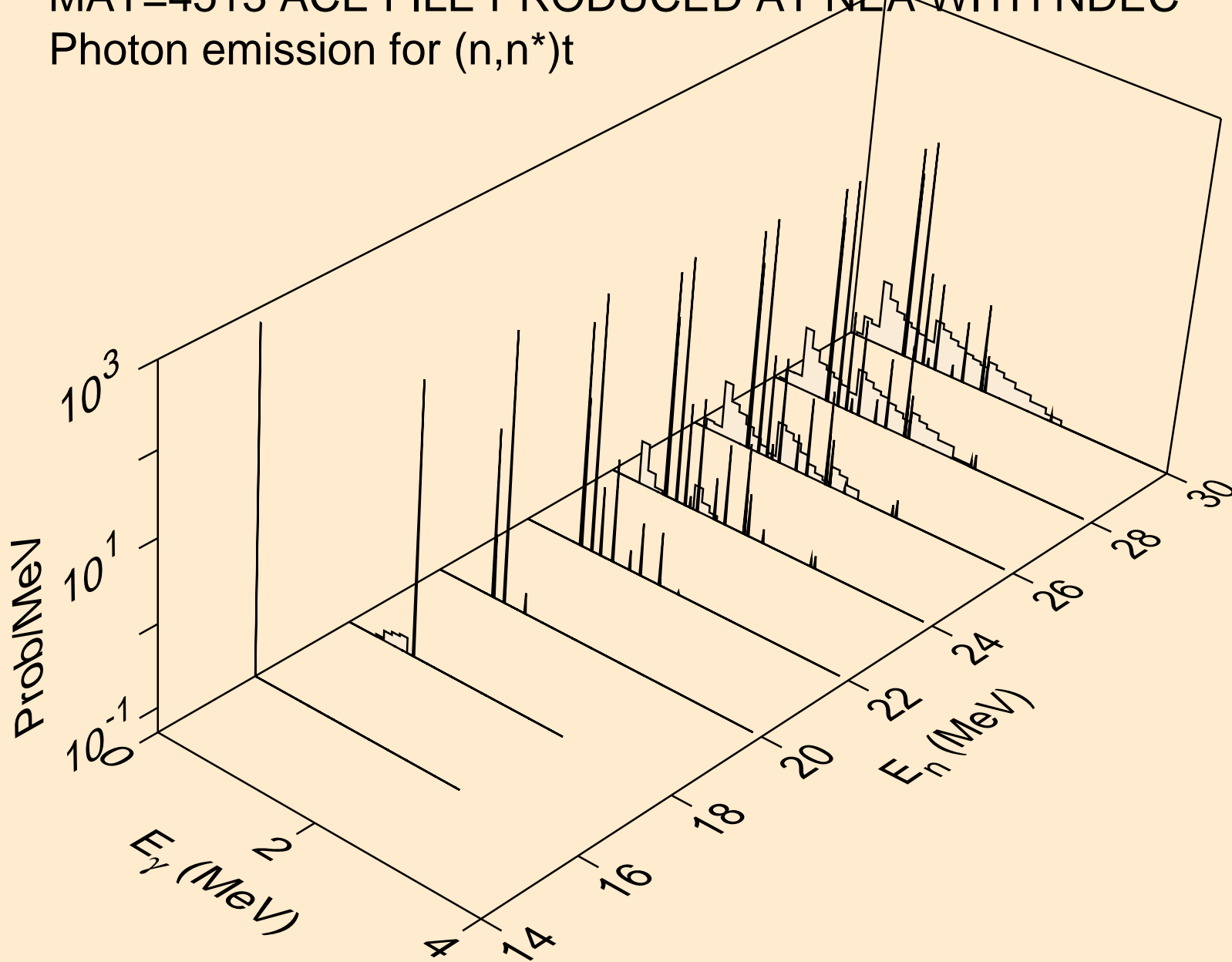
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Photon emission for (n,n\*)2a



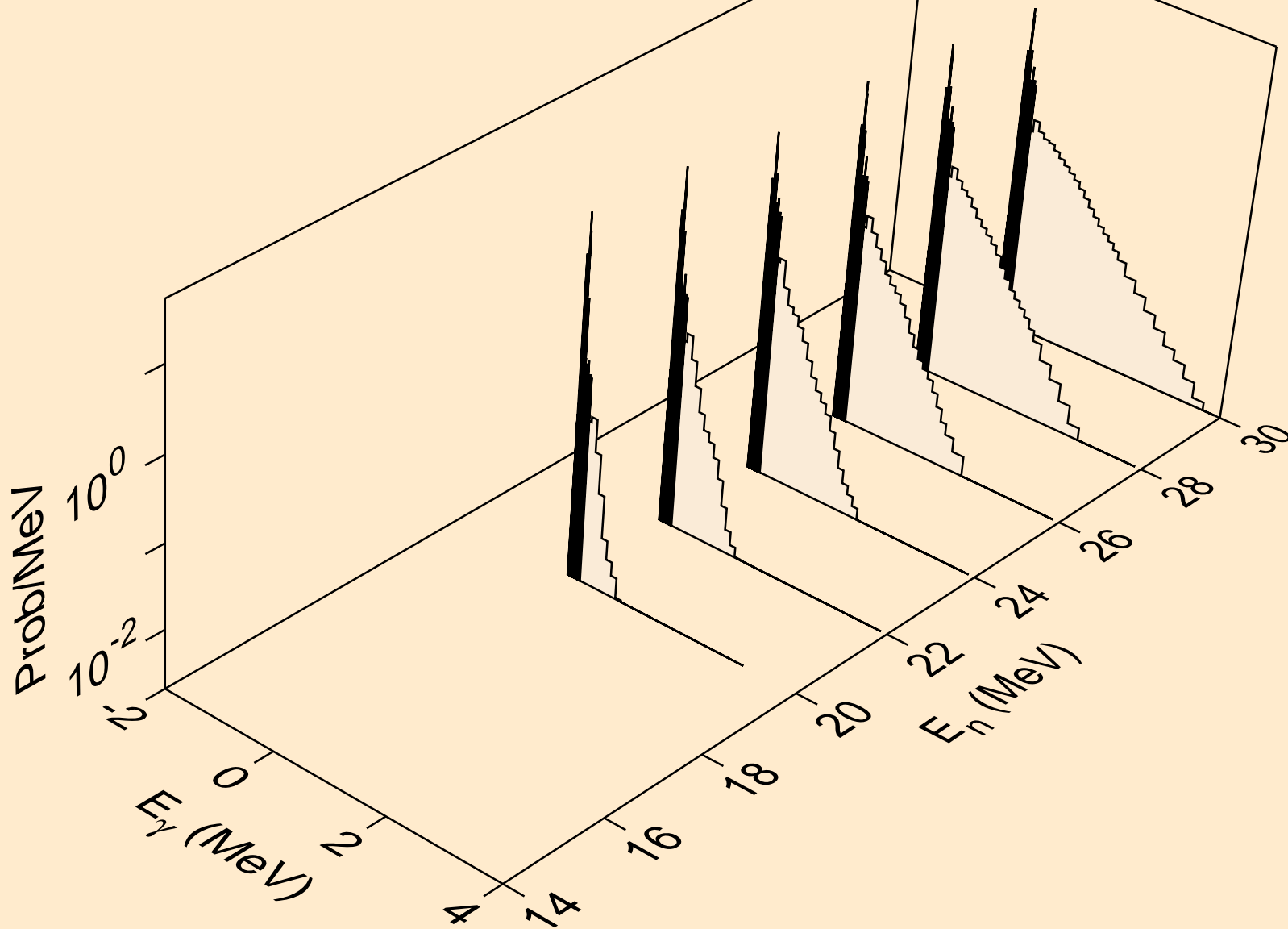
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Photon emission for (n,n\*)d



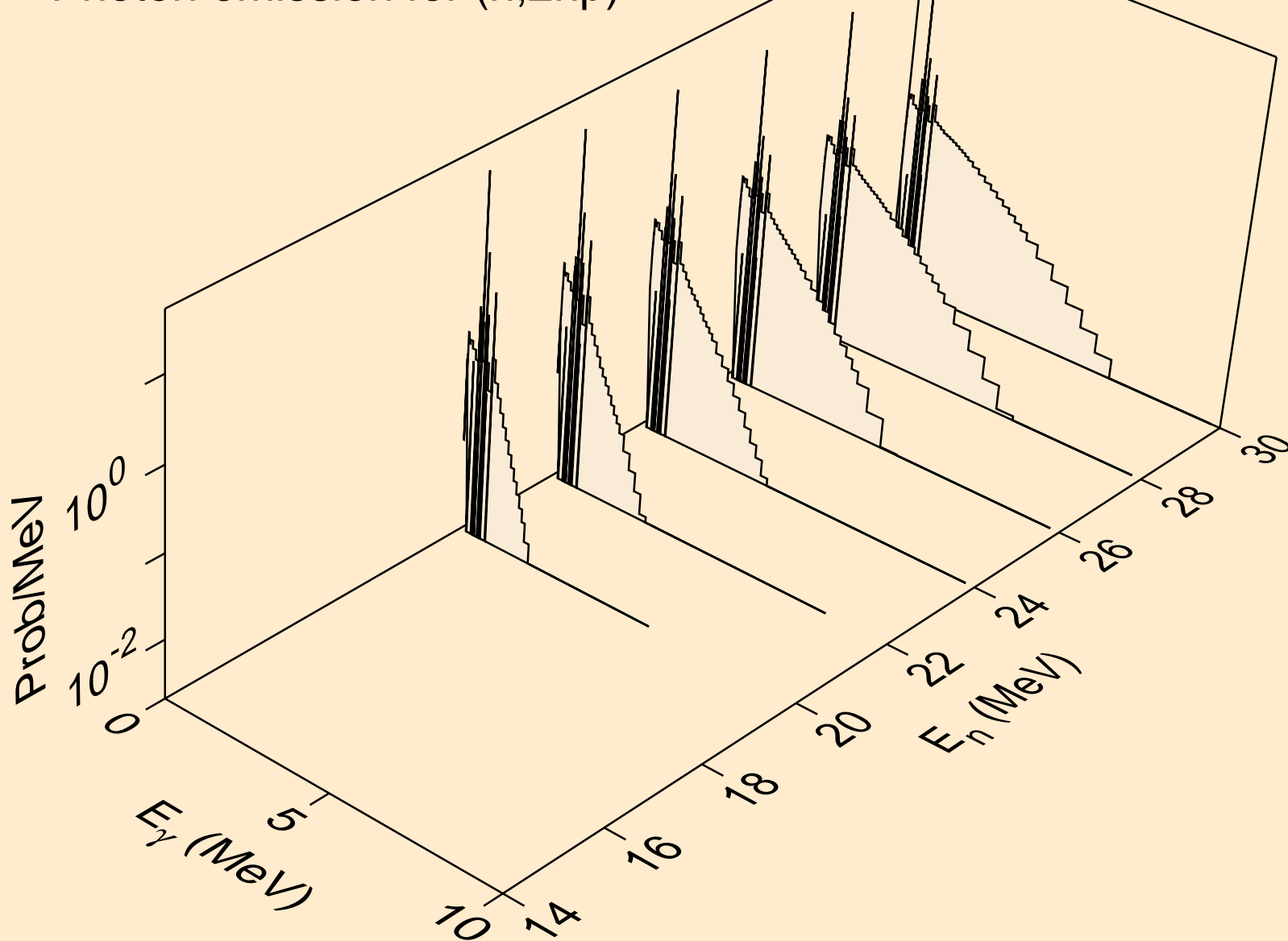
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Photon emission for (n,n\*)t



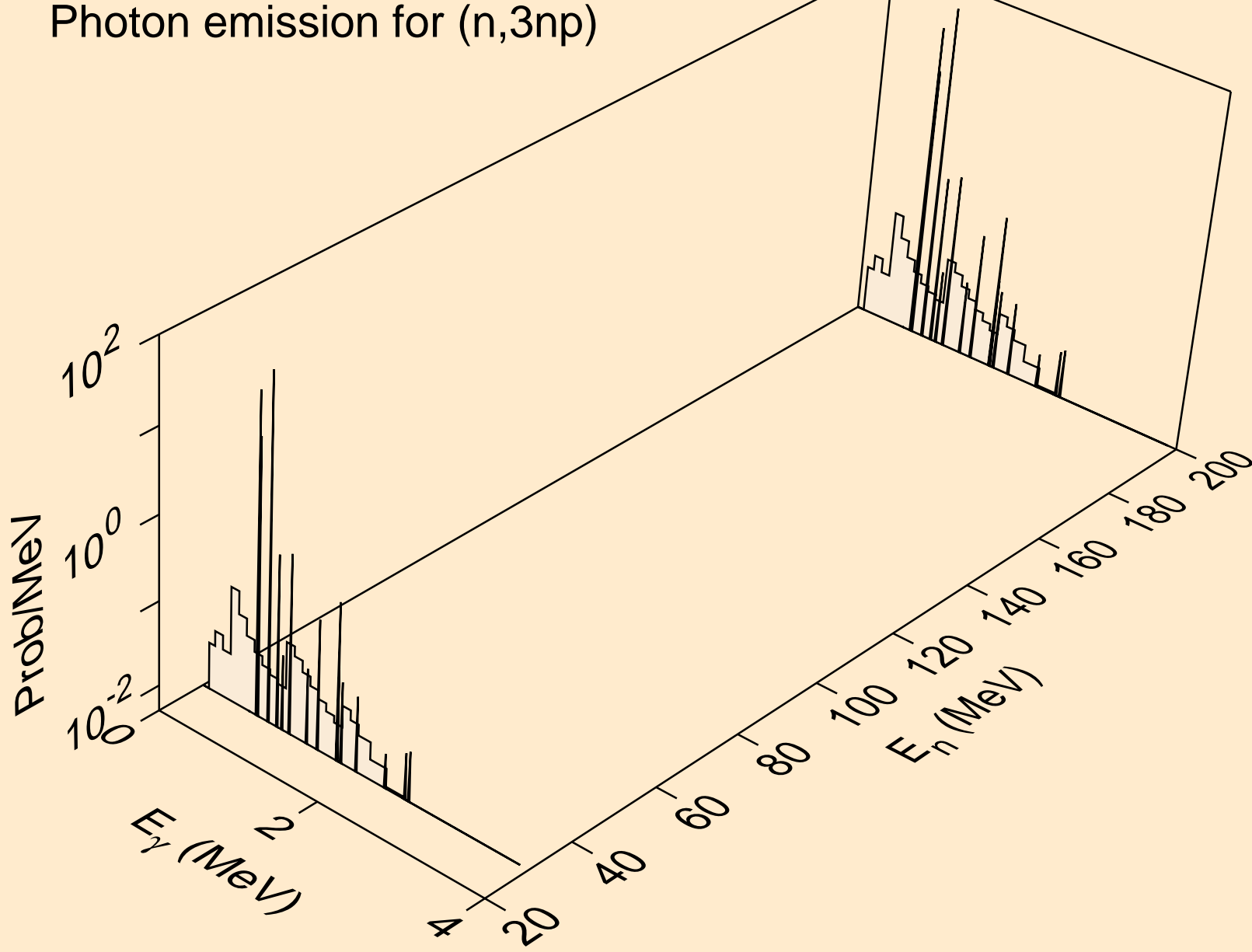
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Photon emission for (n,n\*)he3



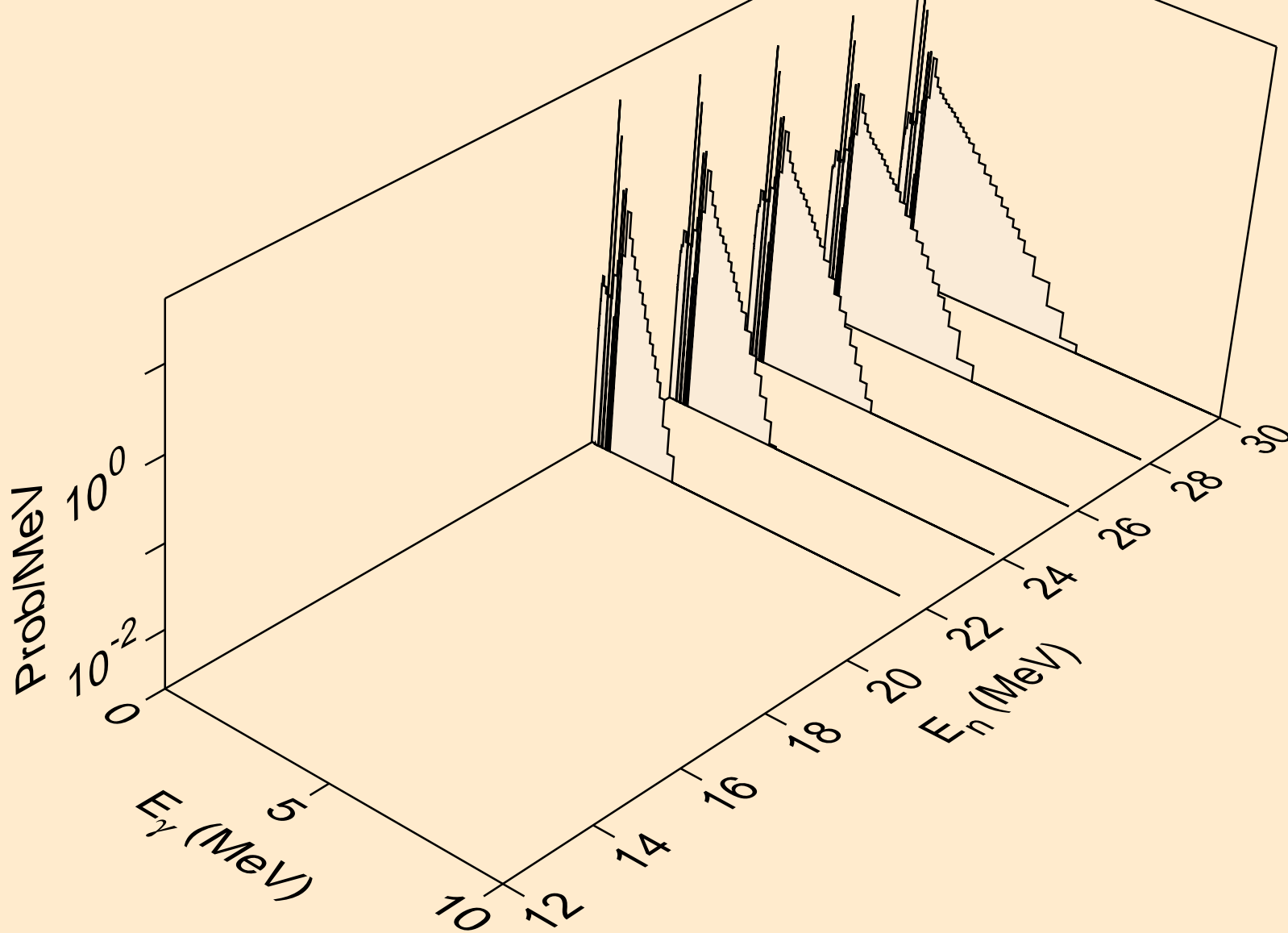
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Photon emission for (n,2np)



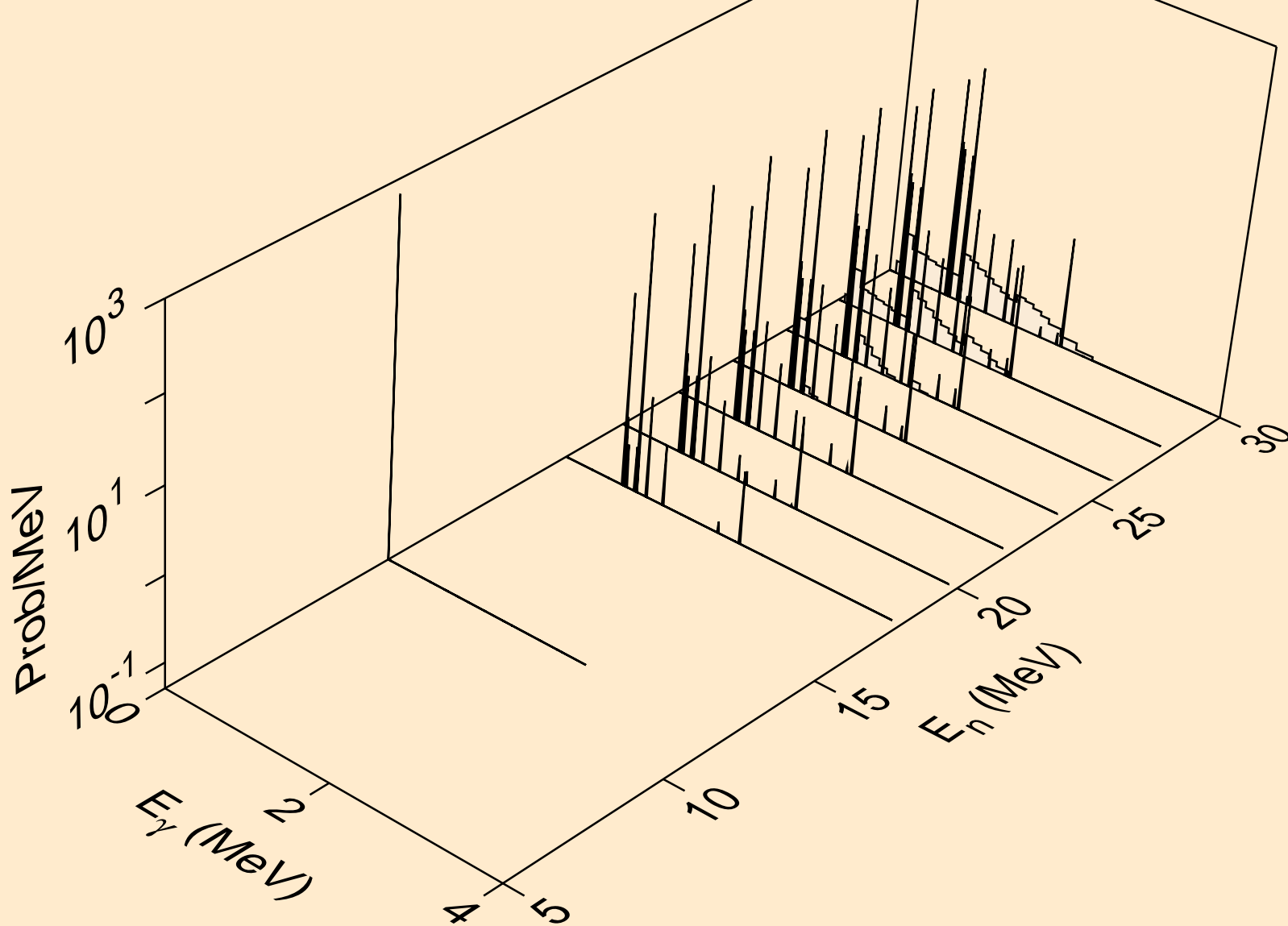
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Photon emission for (n,3np)



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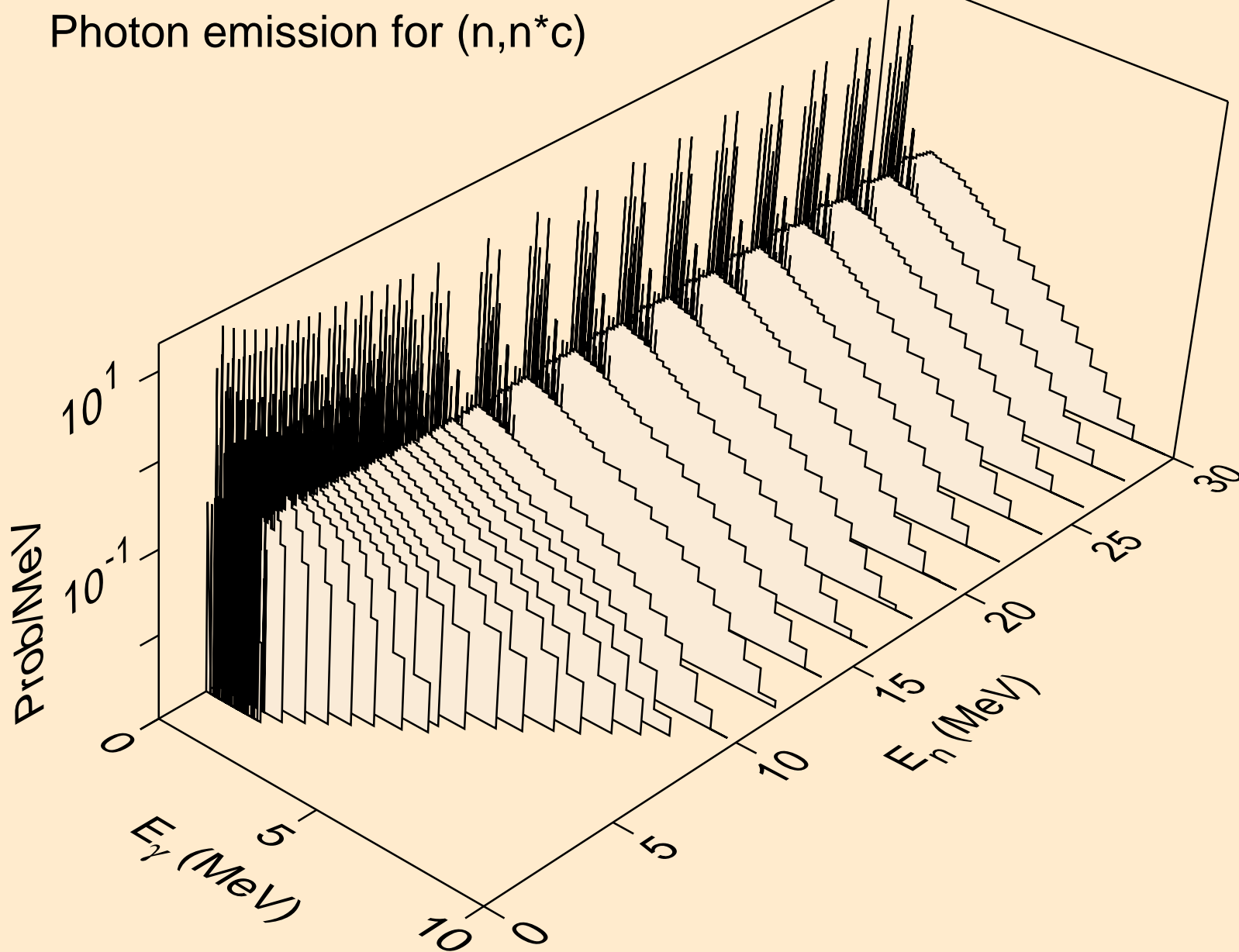


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Photon emission for (n,npa)

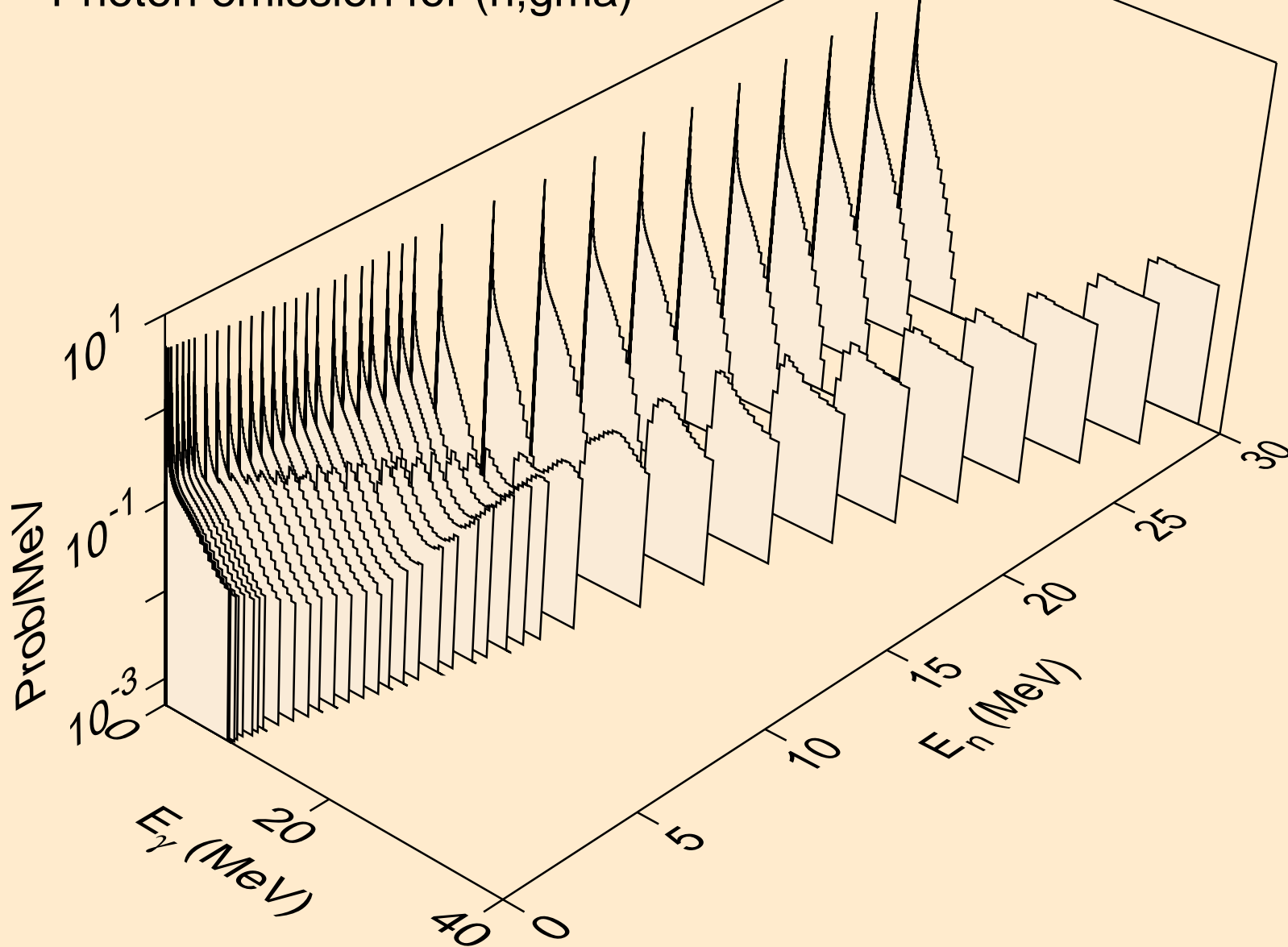




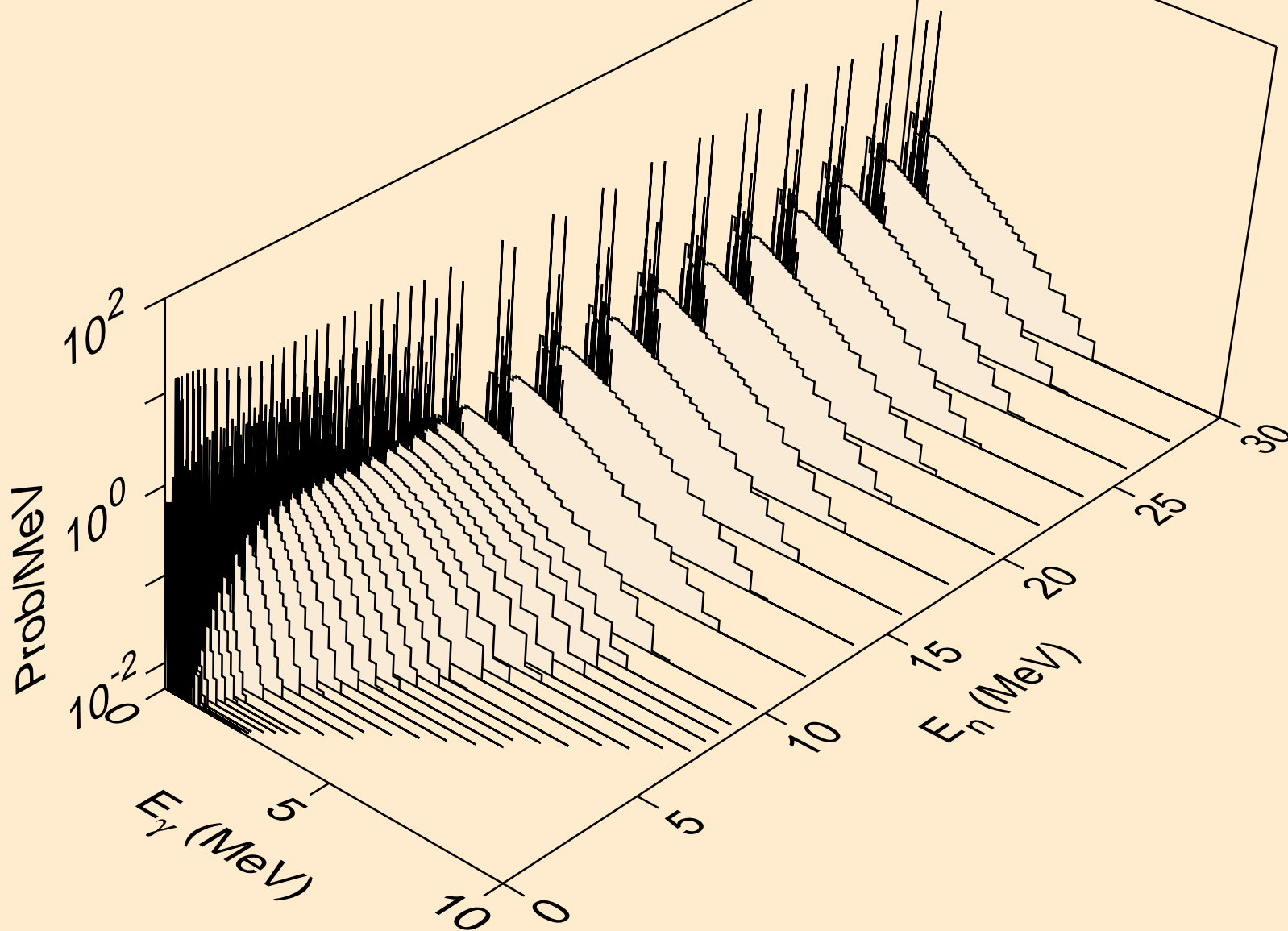
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Photon emission for (n,n\*c)



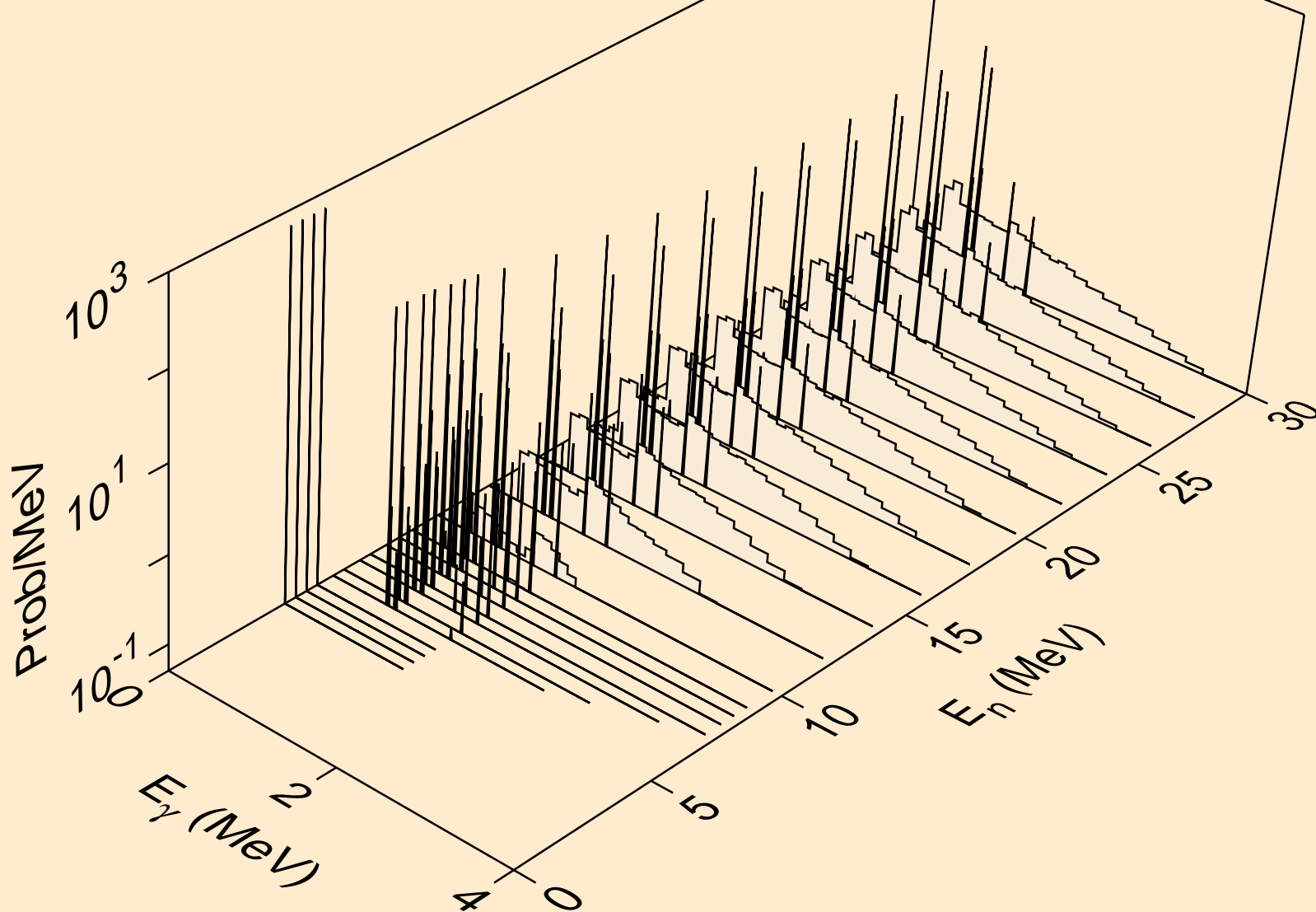
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Photon emission for (n,gma)



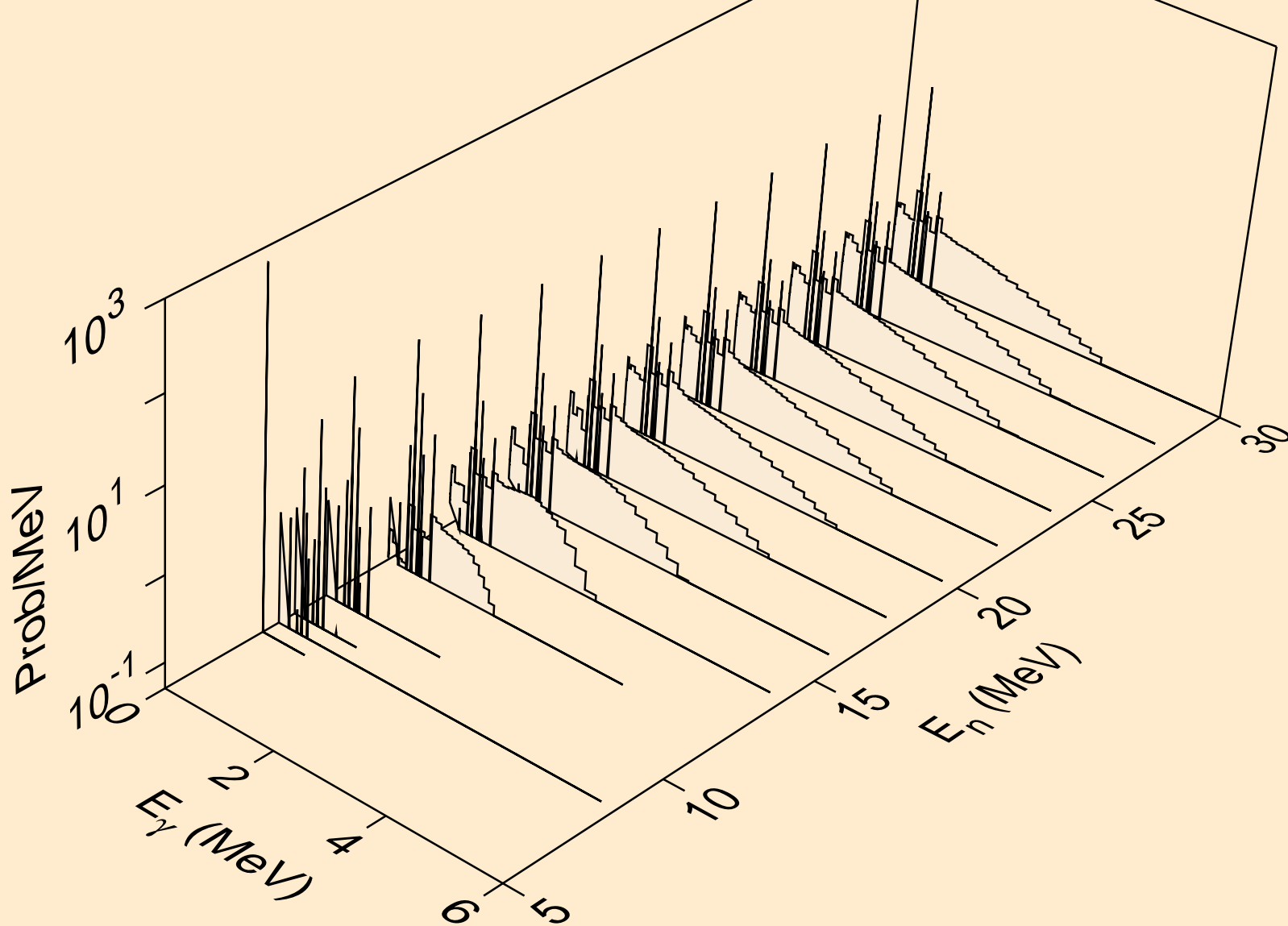
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Photon emission for (n,p)



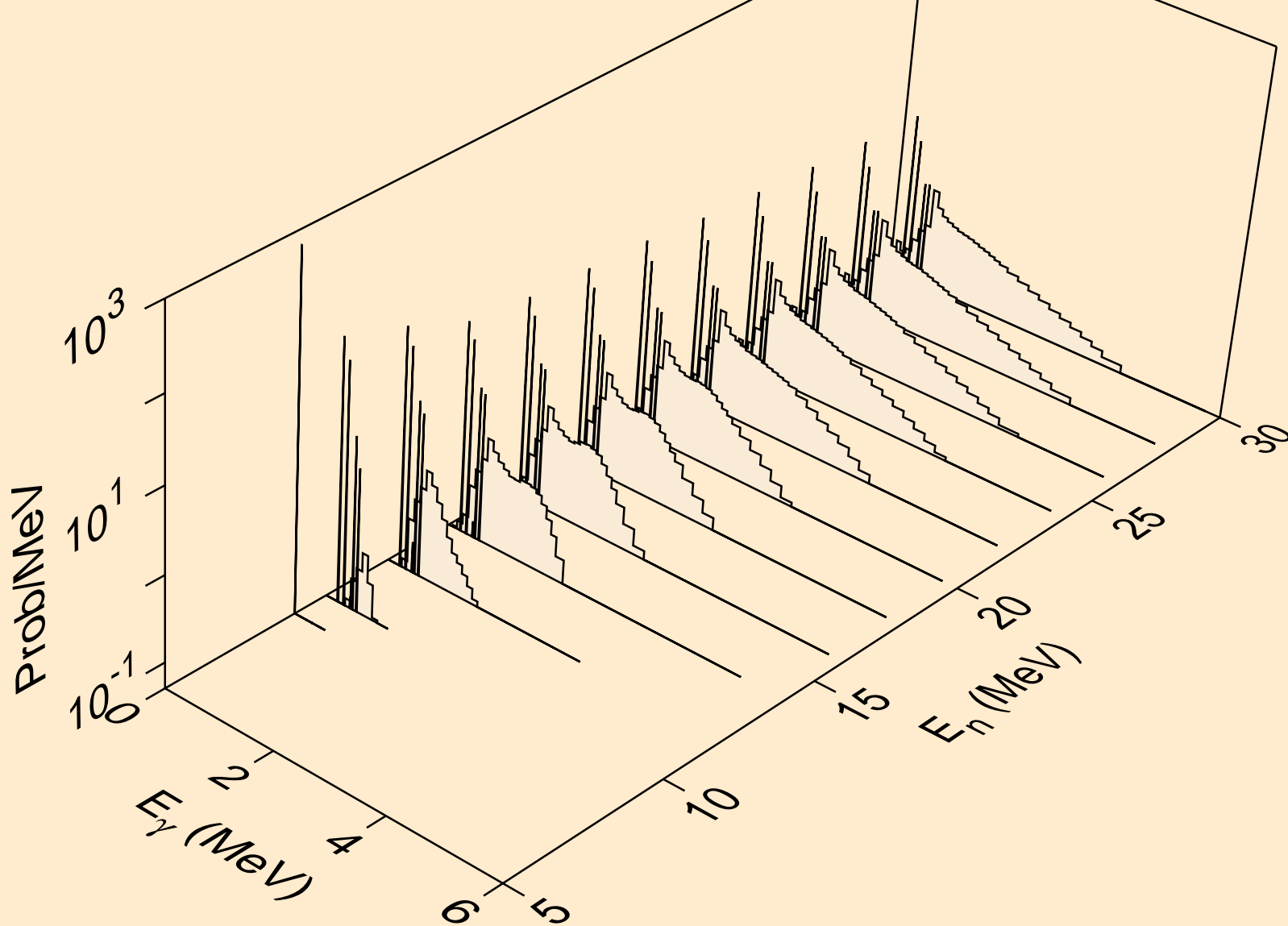
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Photon emission for (n,d)



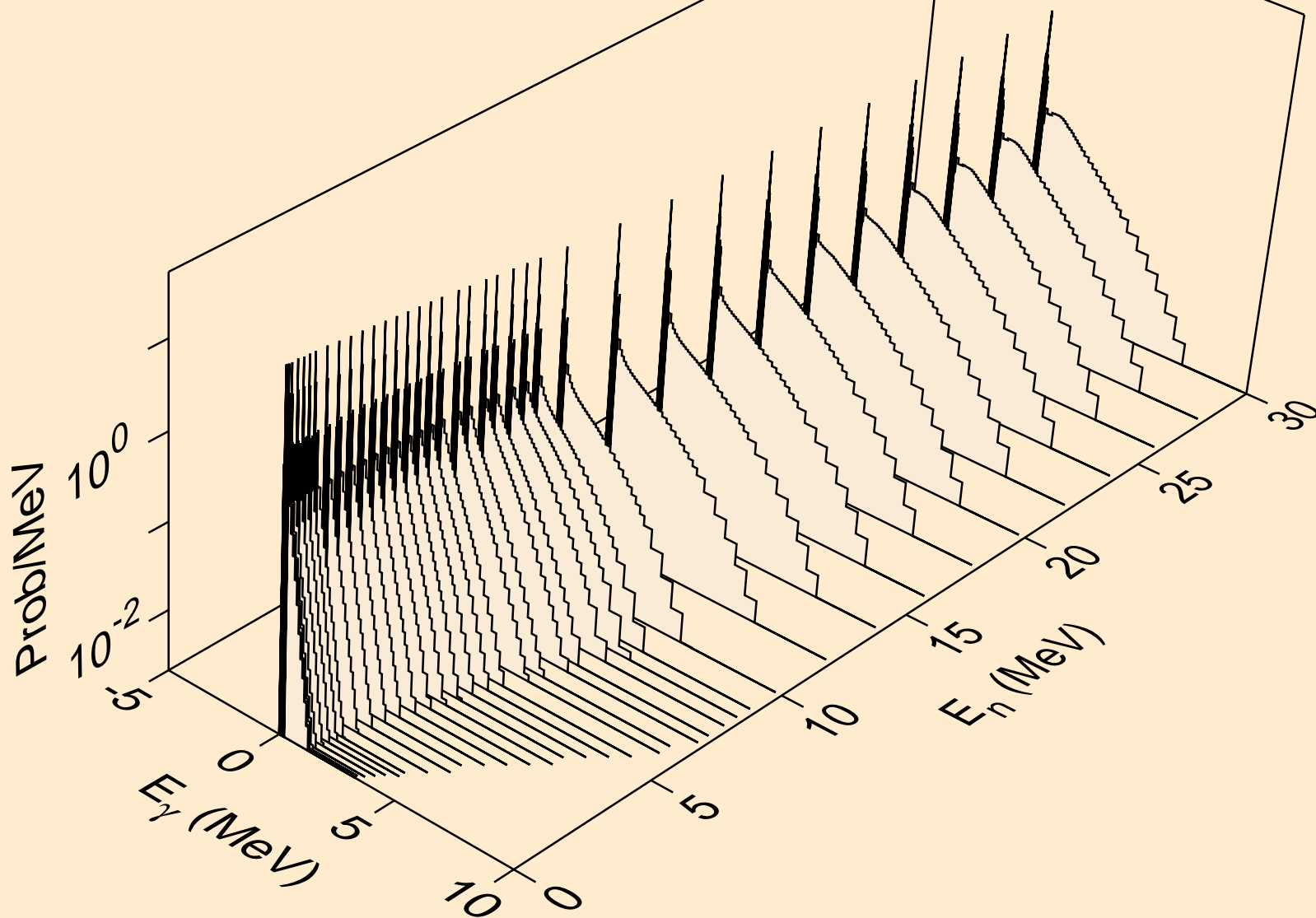
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Photon emission for (n,t)



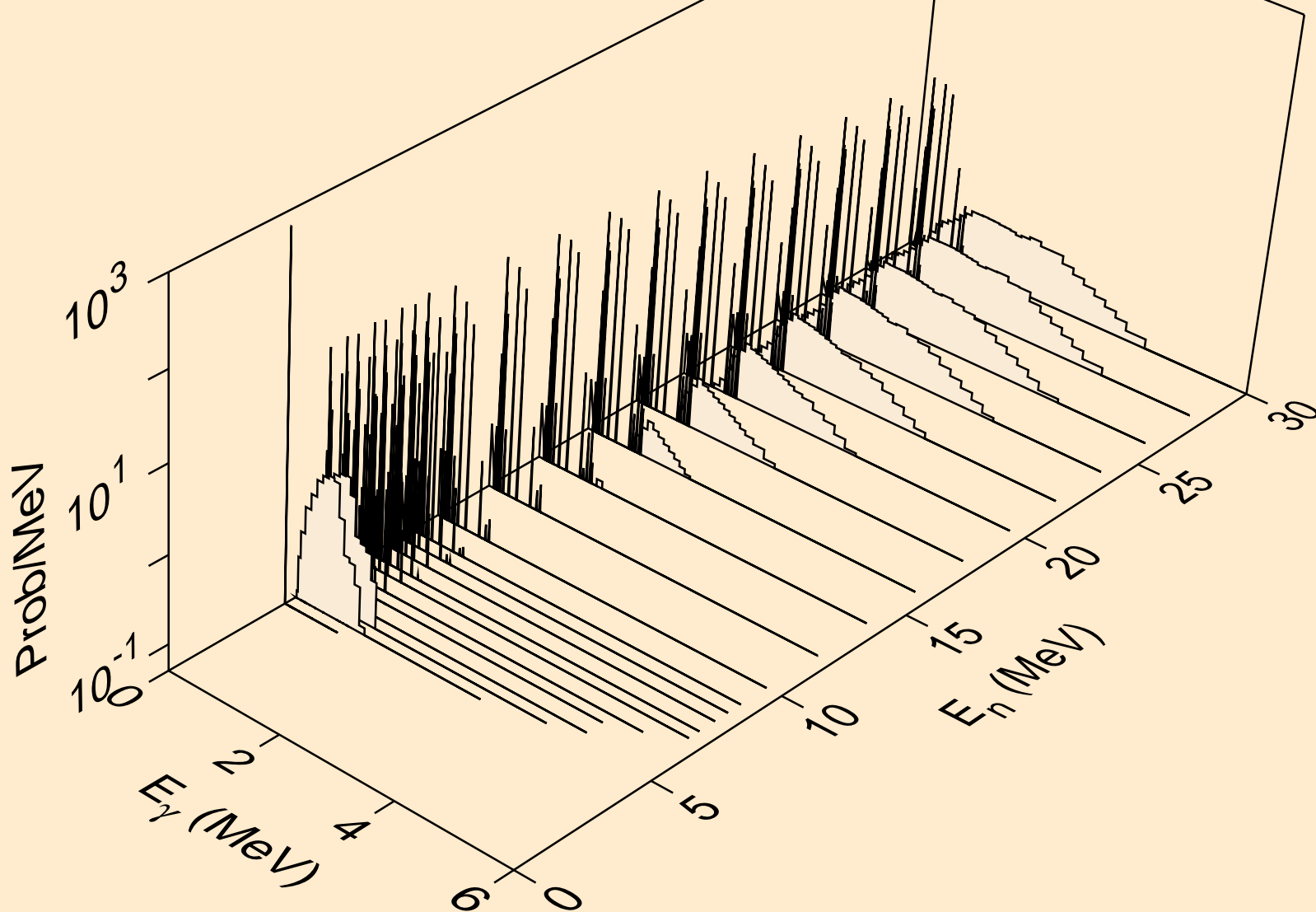
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Photon emission for (n,he3)



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Photon emission for (n,a)

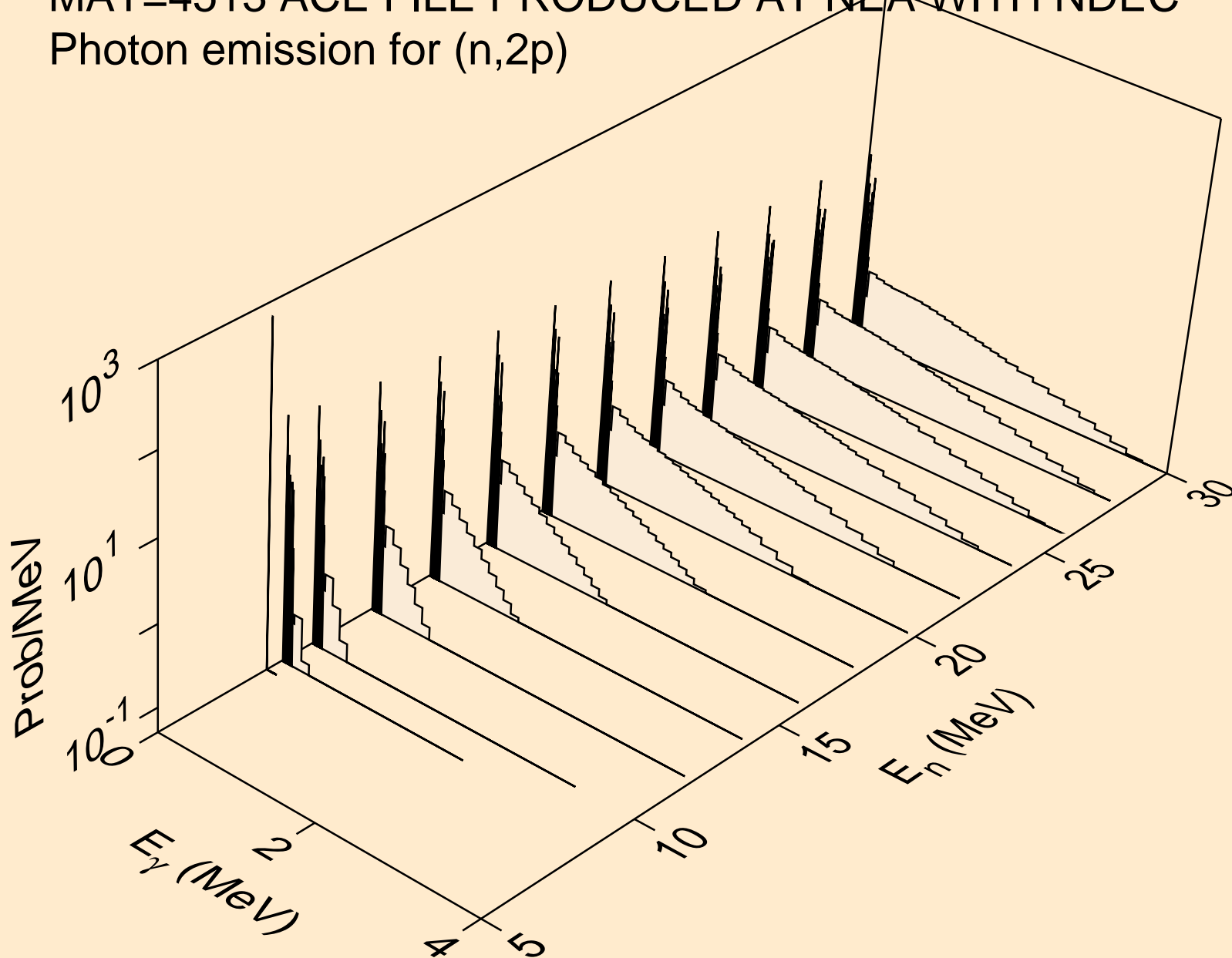


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Photon emission for (n,2a)

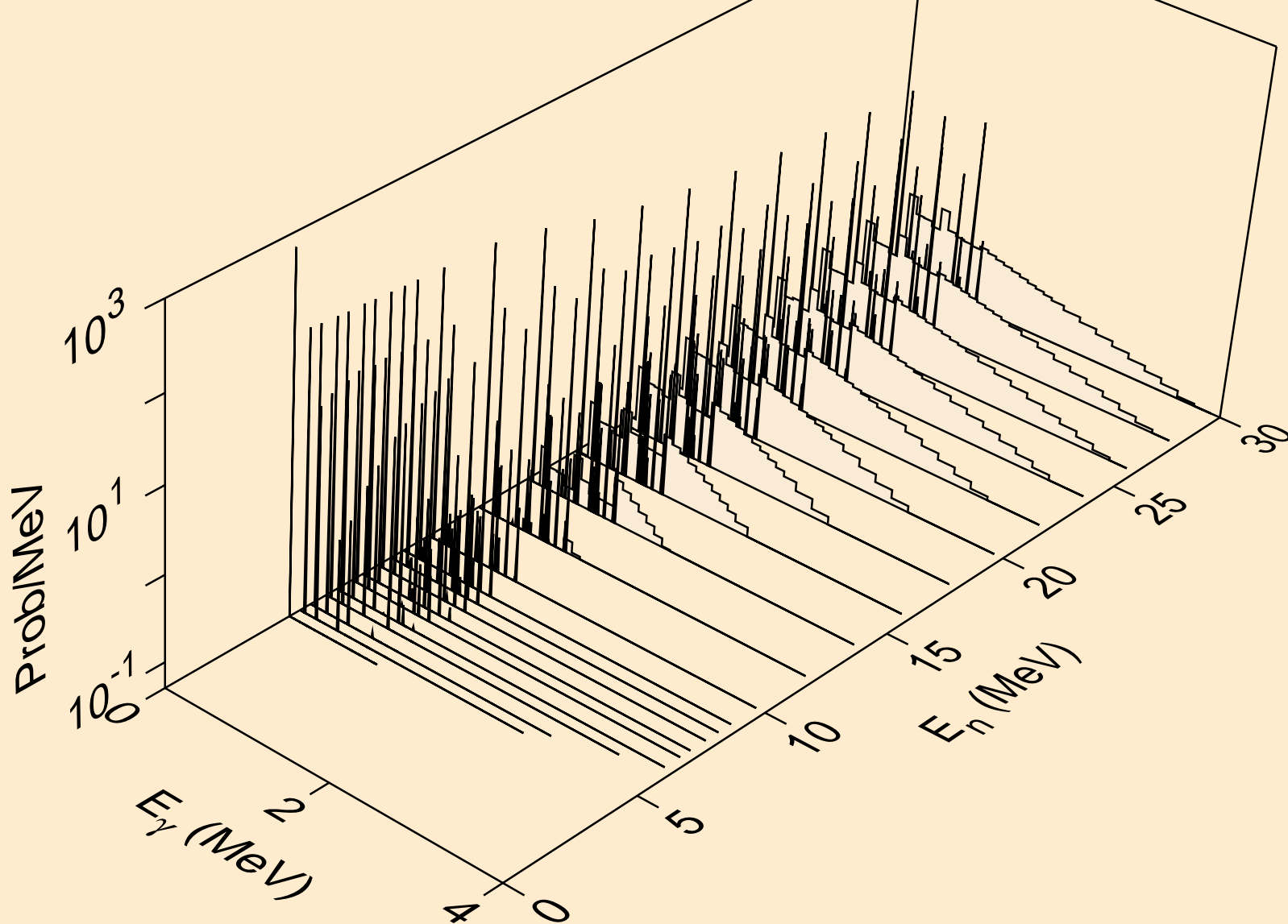




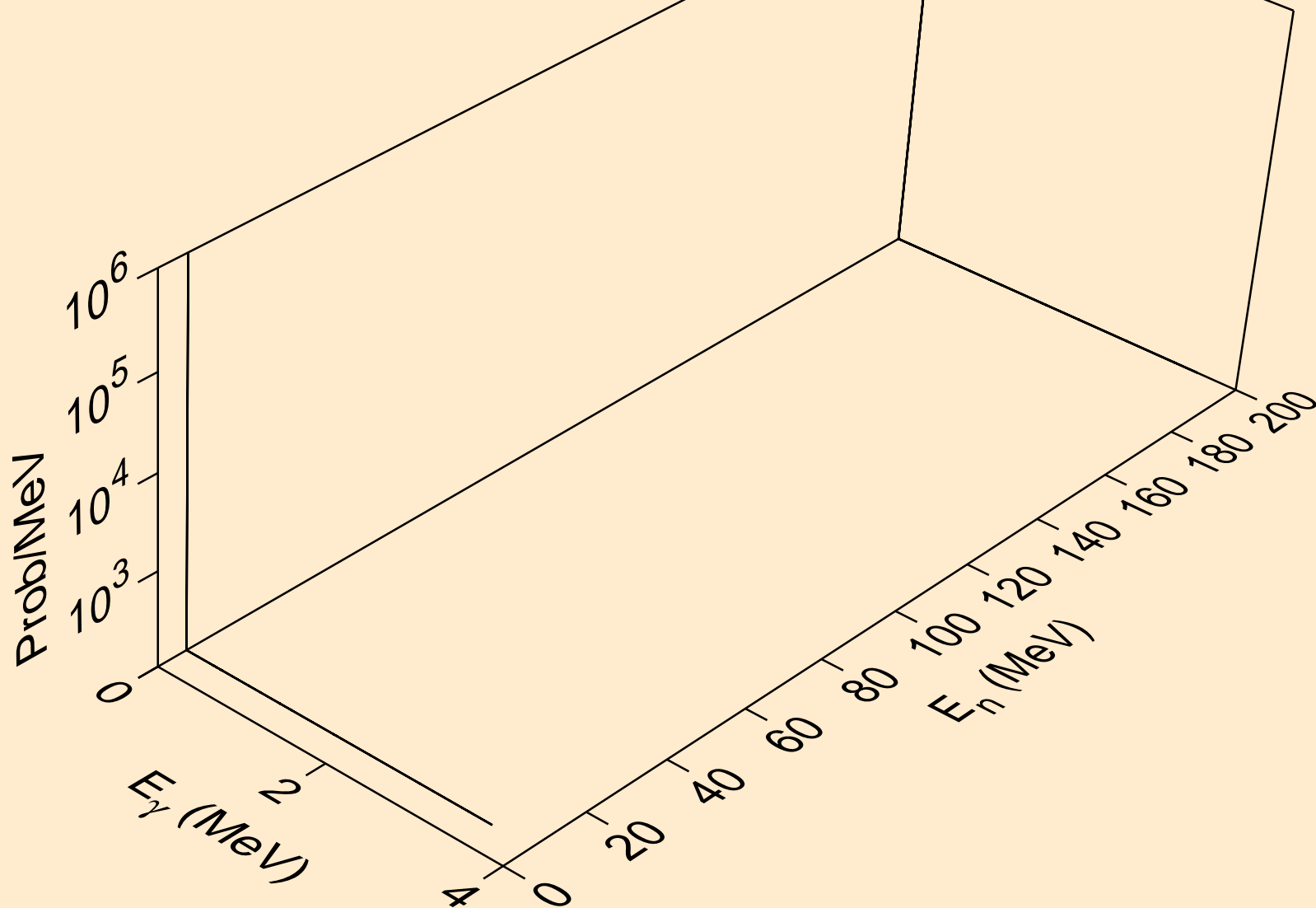
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Photon emission for (n,2p)



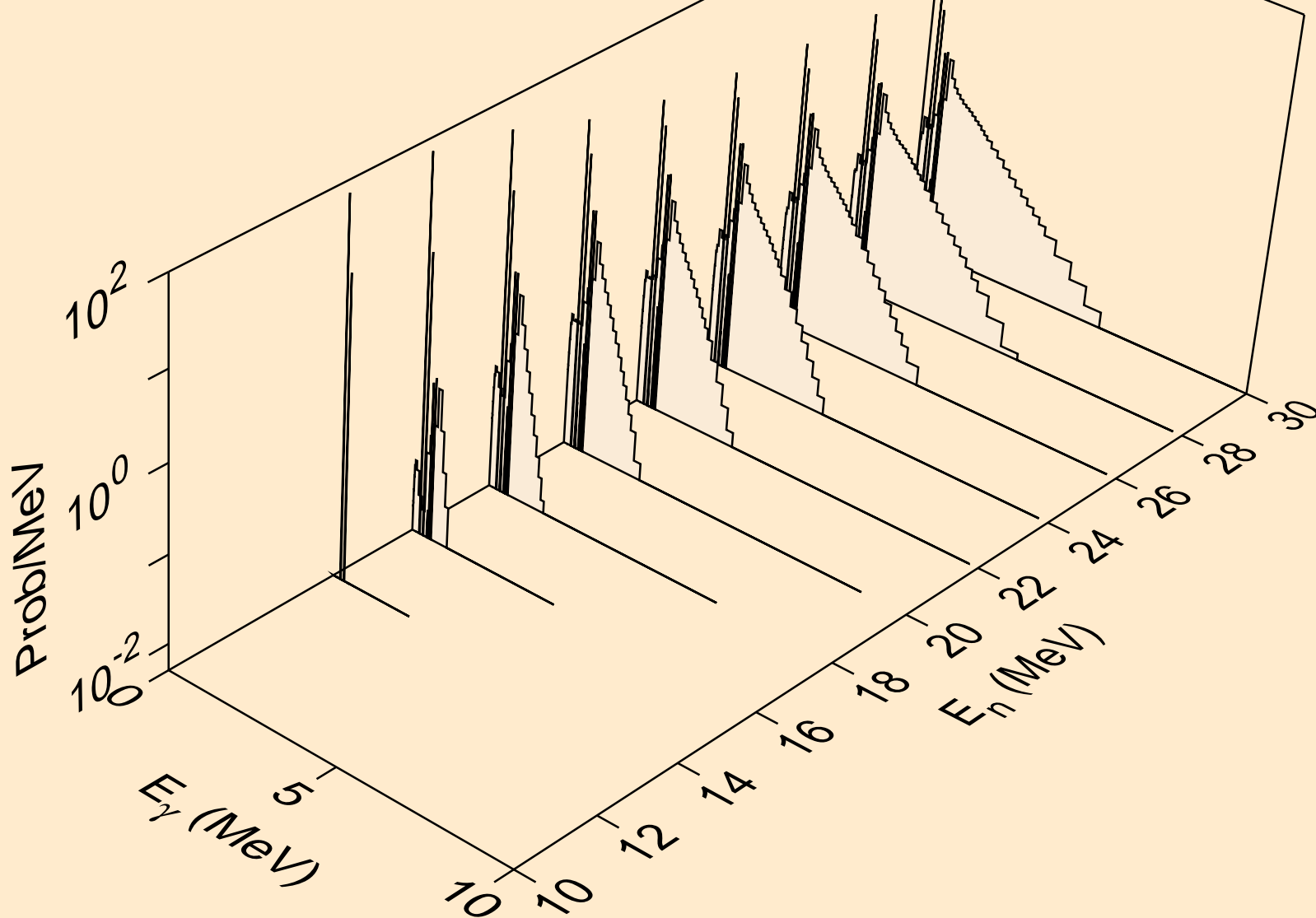
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Photon emission for (n,pa)



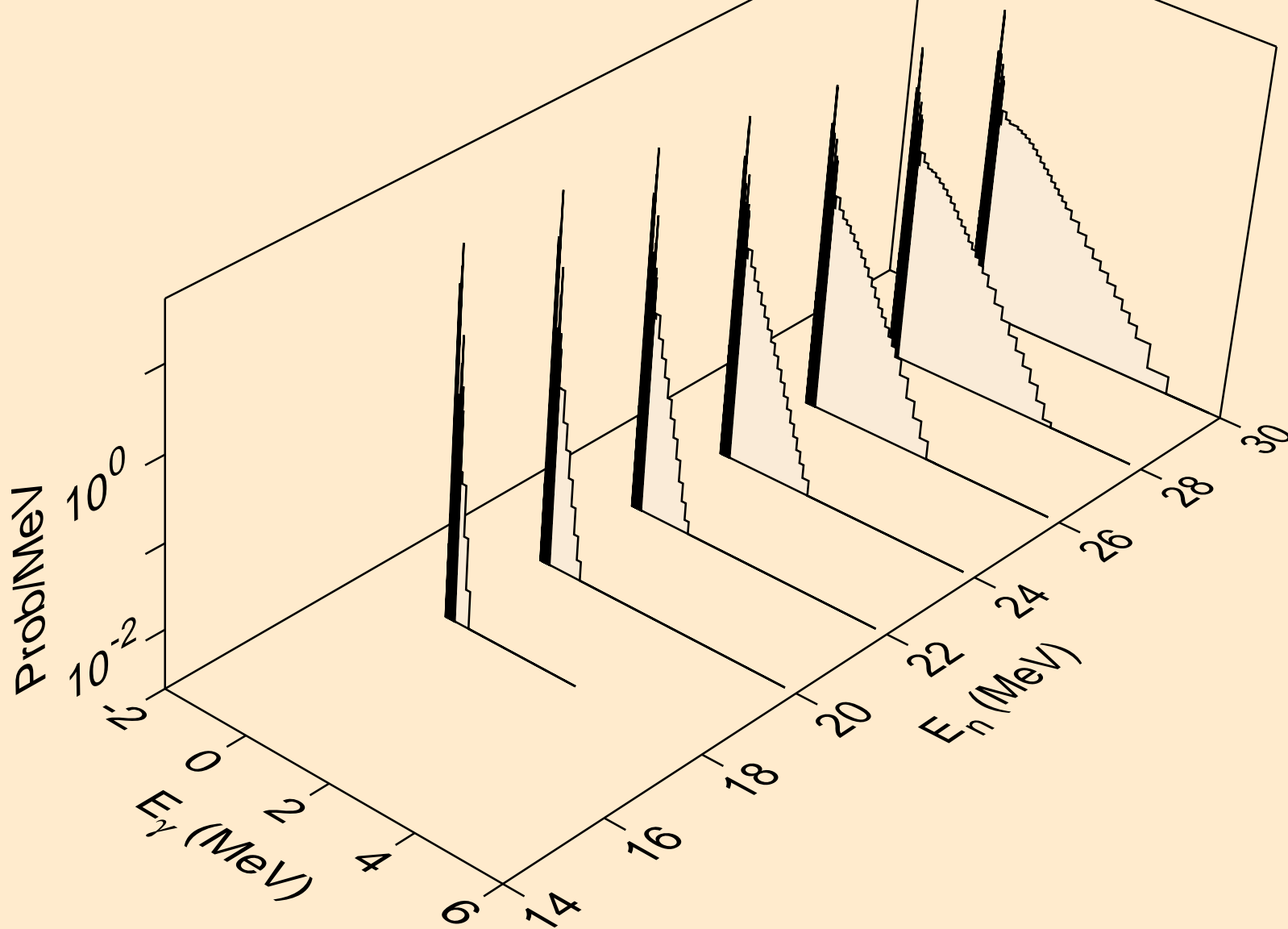
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Photon emission for (n,d2a)



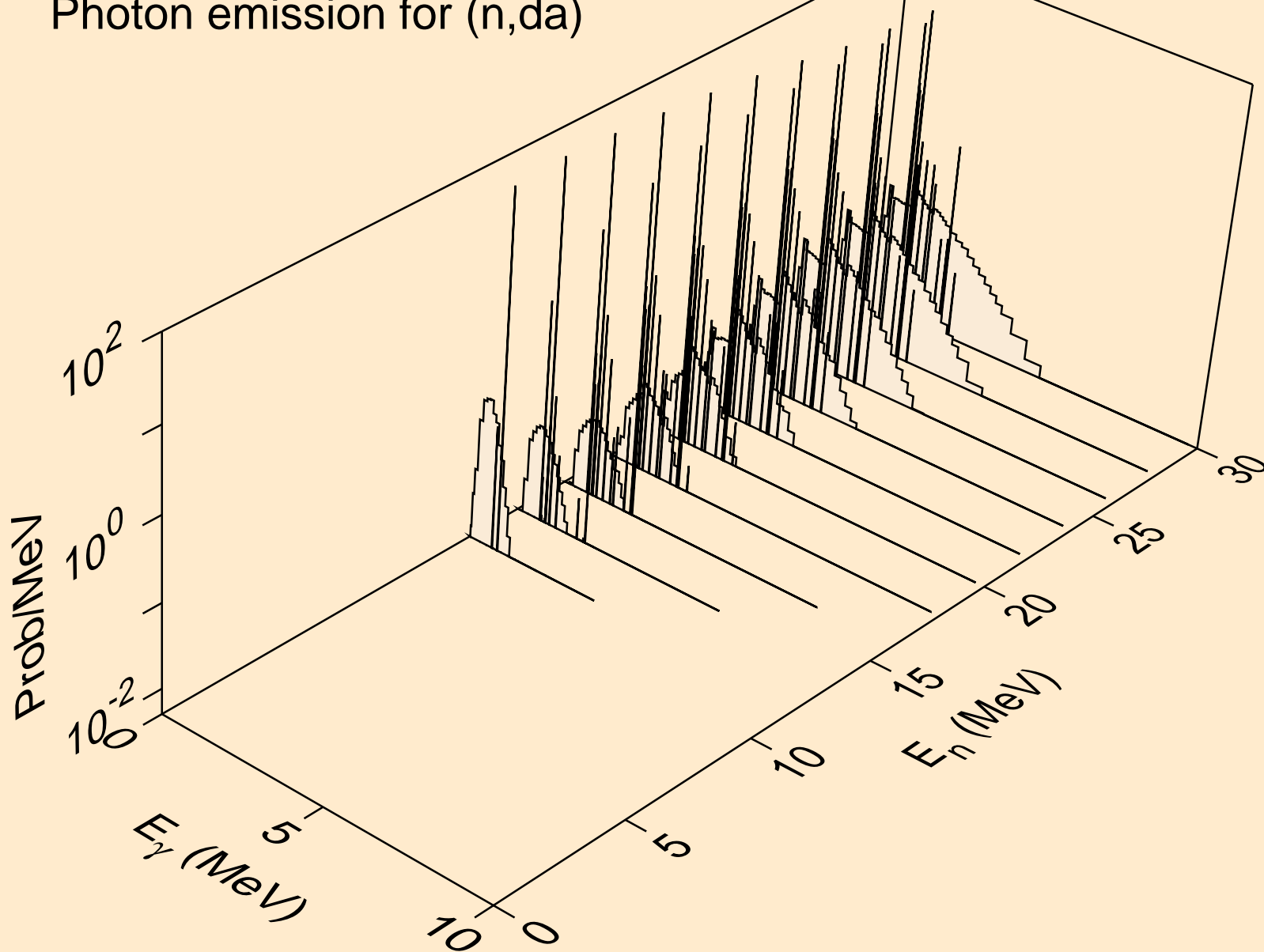
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Photon emission for (n,pd)



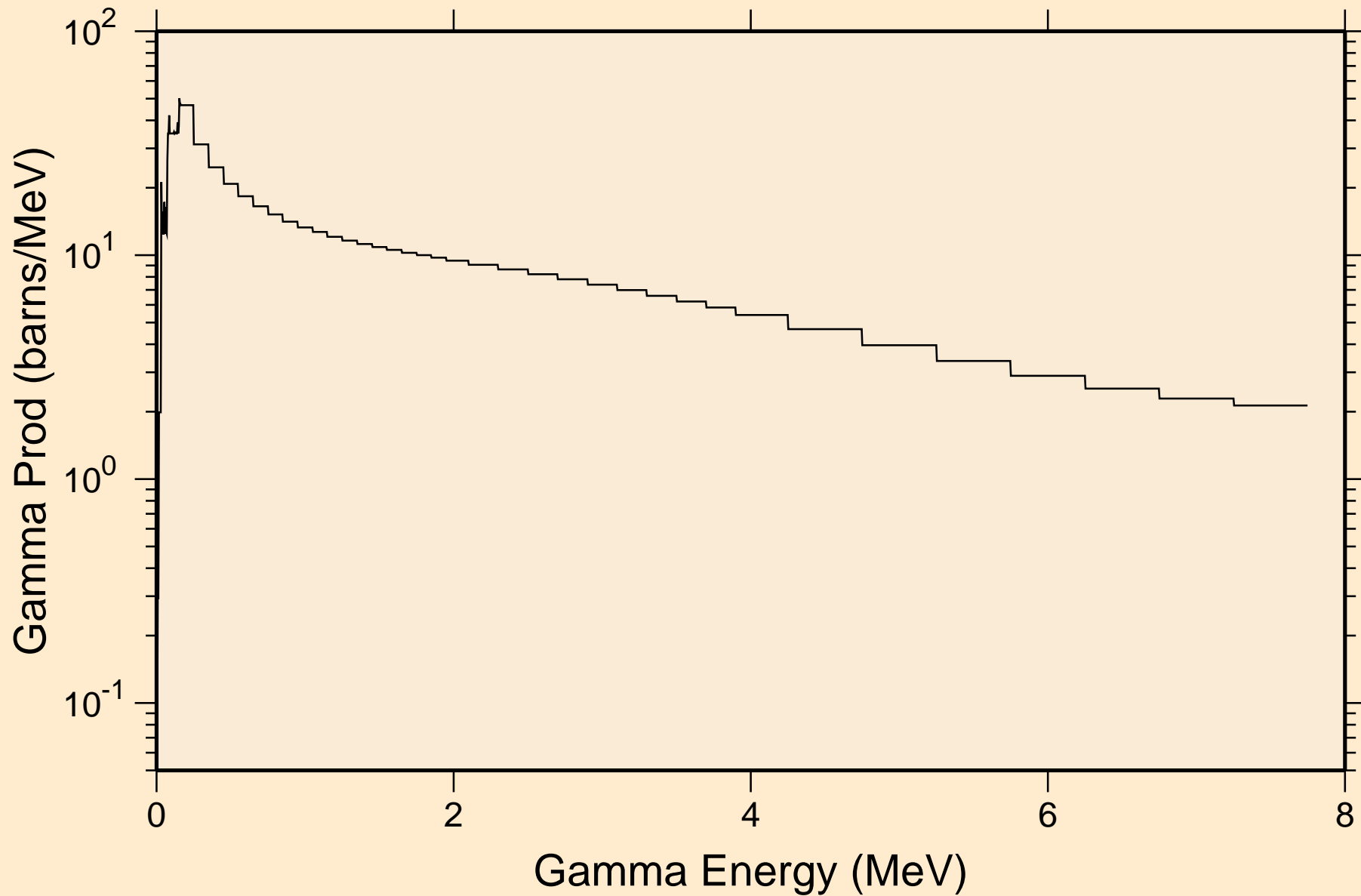
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Photon emission for (n,pt)



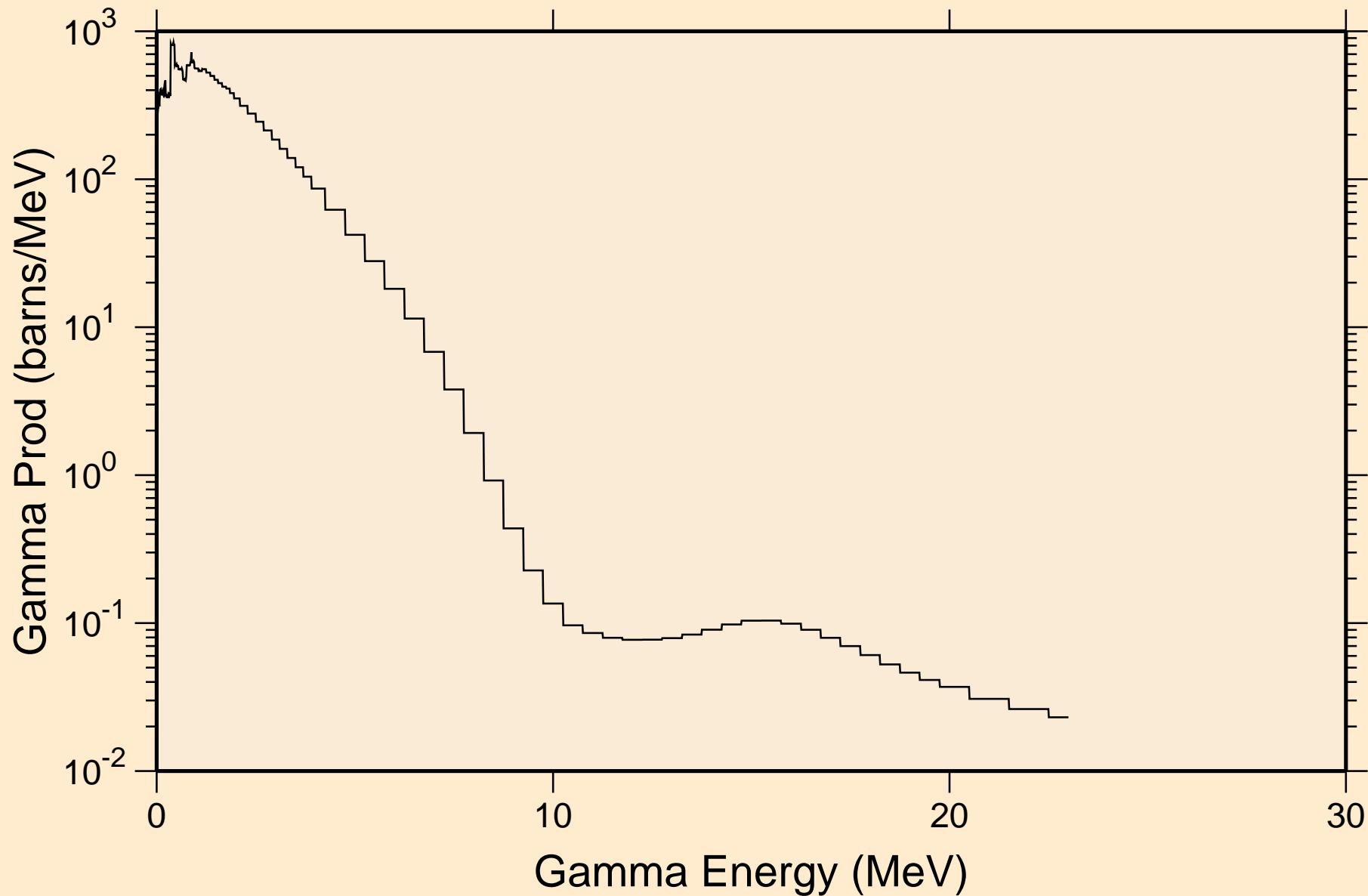
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Photon emission for (n,da)



MAT=4513 ACE FILE PRODUCED AT NEA WITH NDEC  
thermal capture photon spectrum

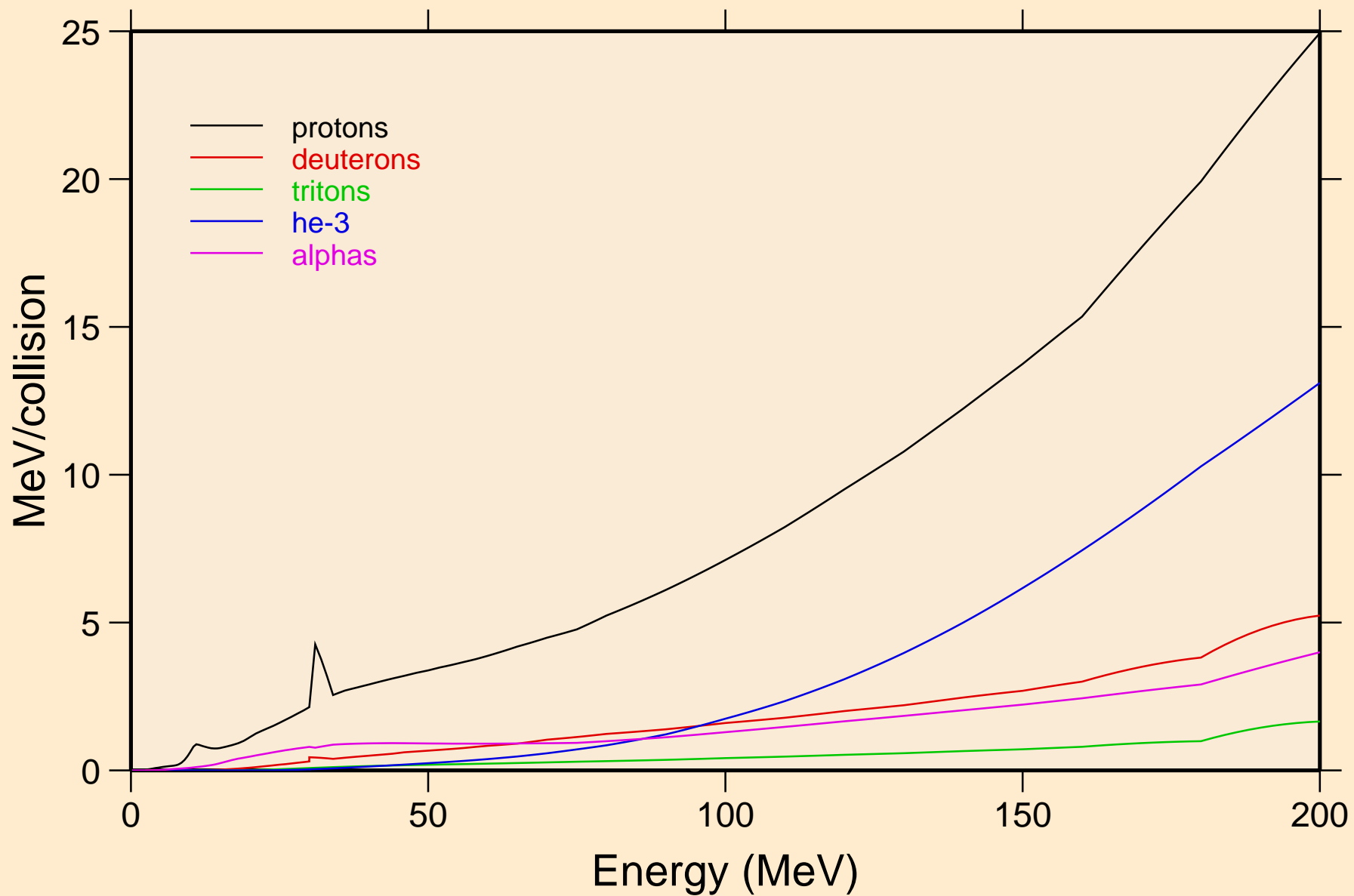


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14 MeV photon spectrum

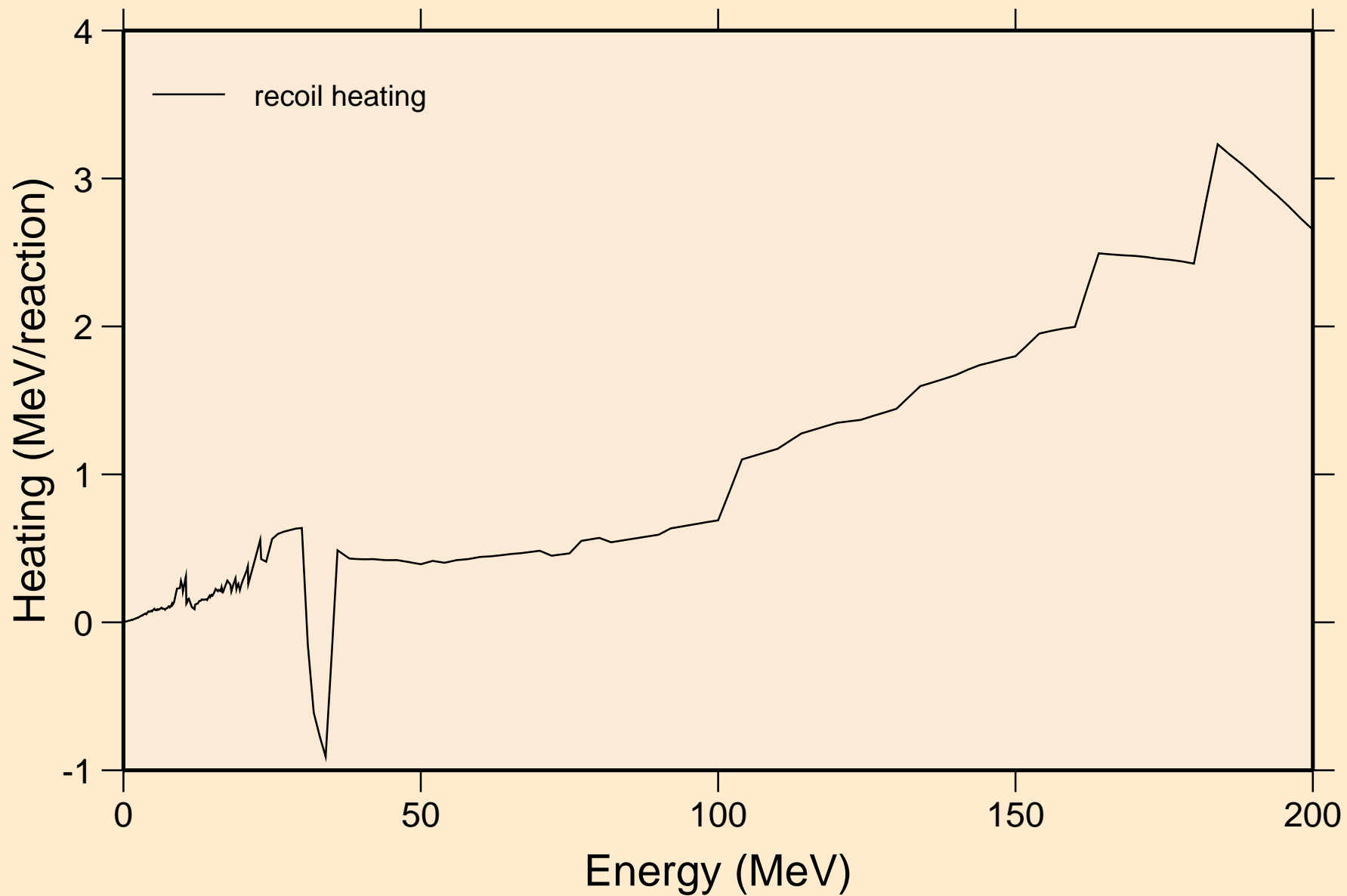




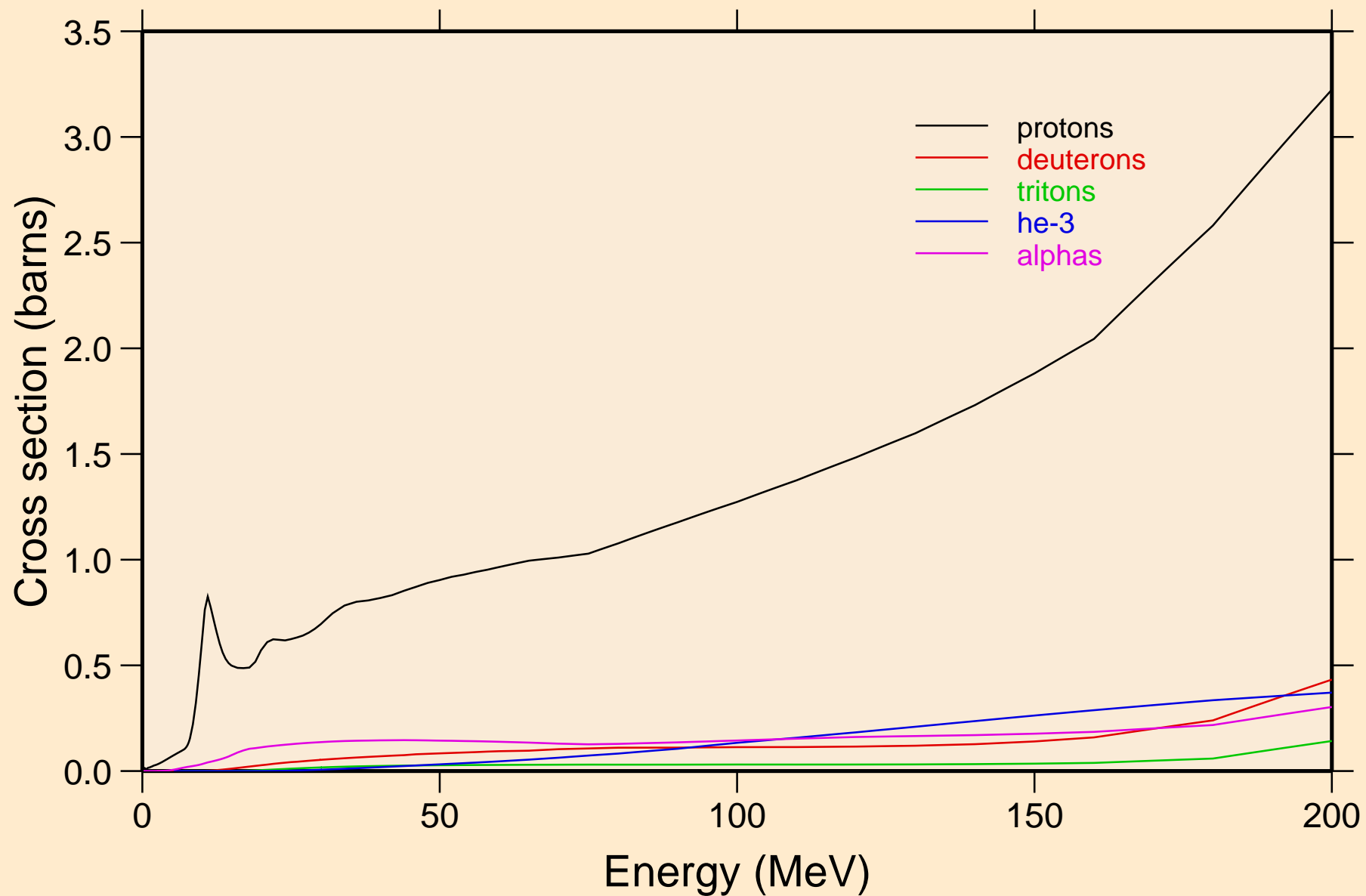
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Particle heating contributions



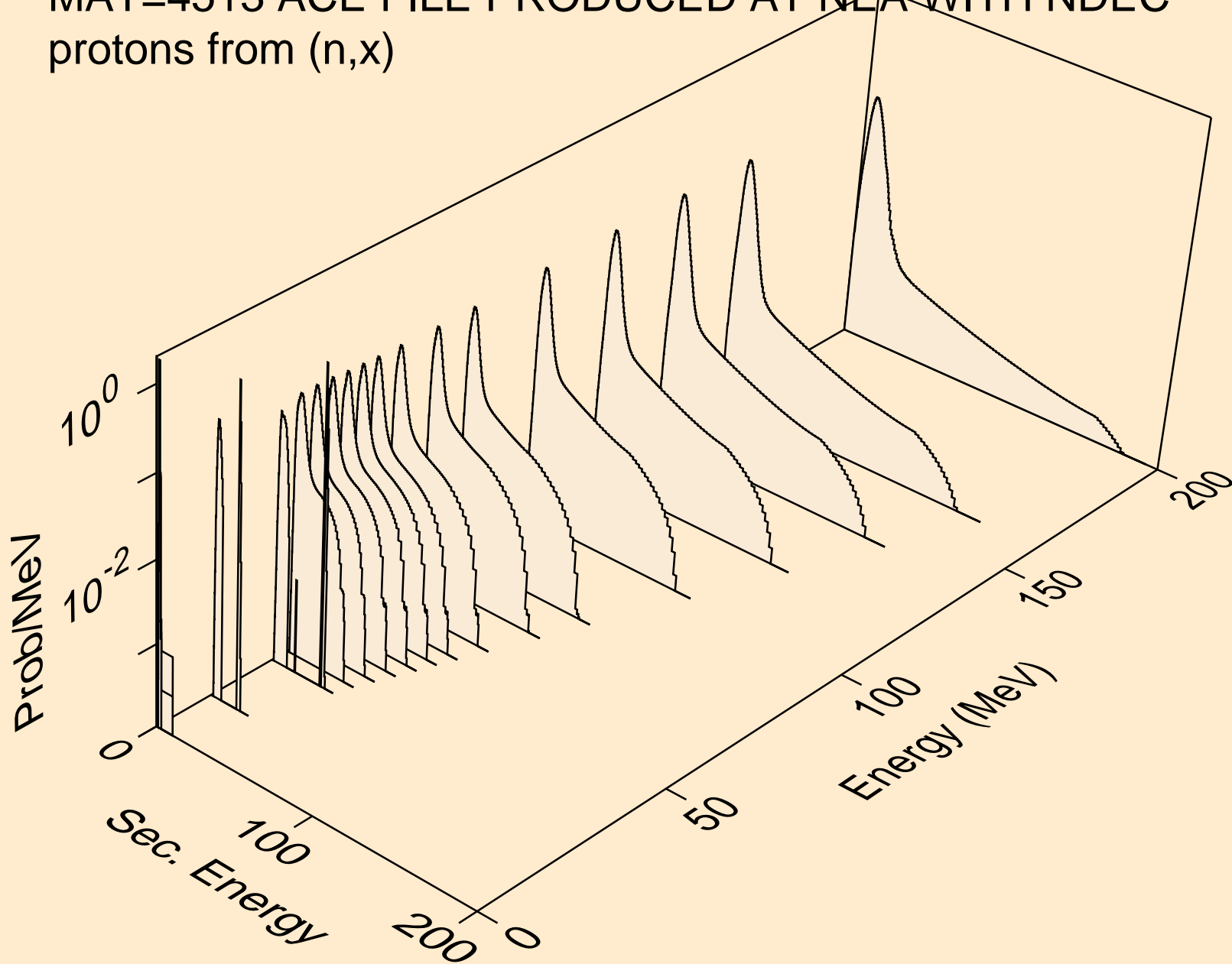
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Recoil Heating



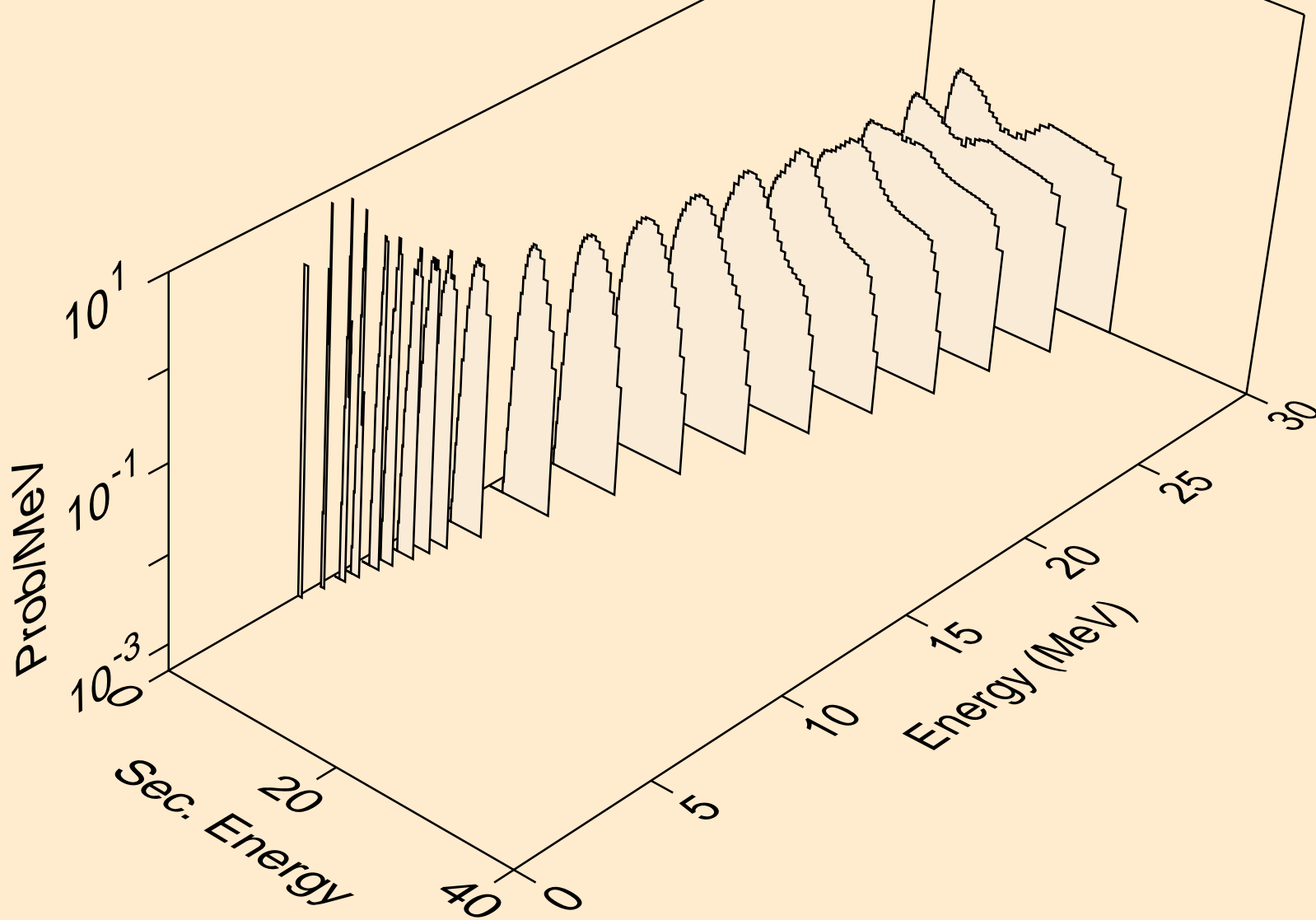
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Particle production cross sections



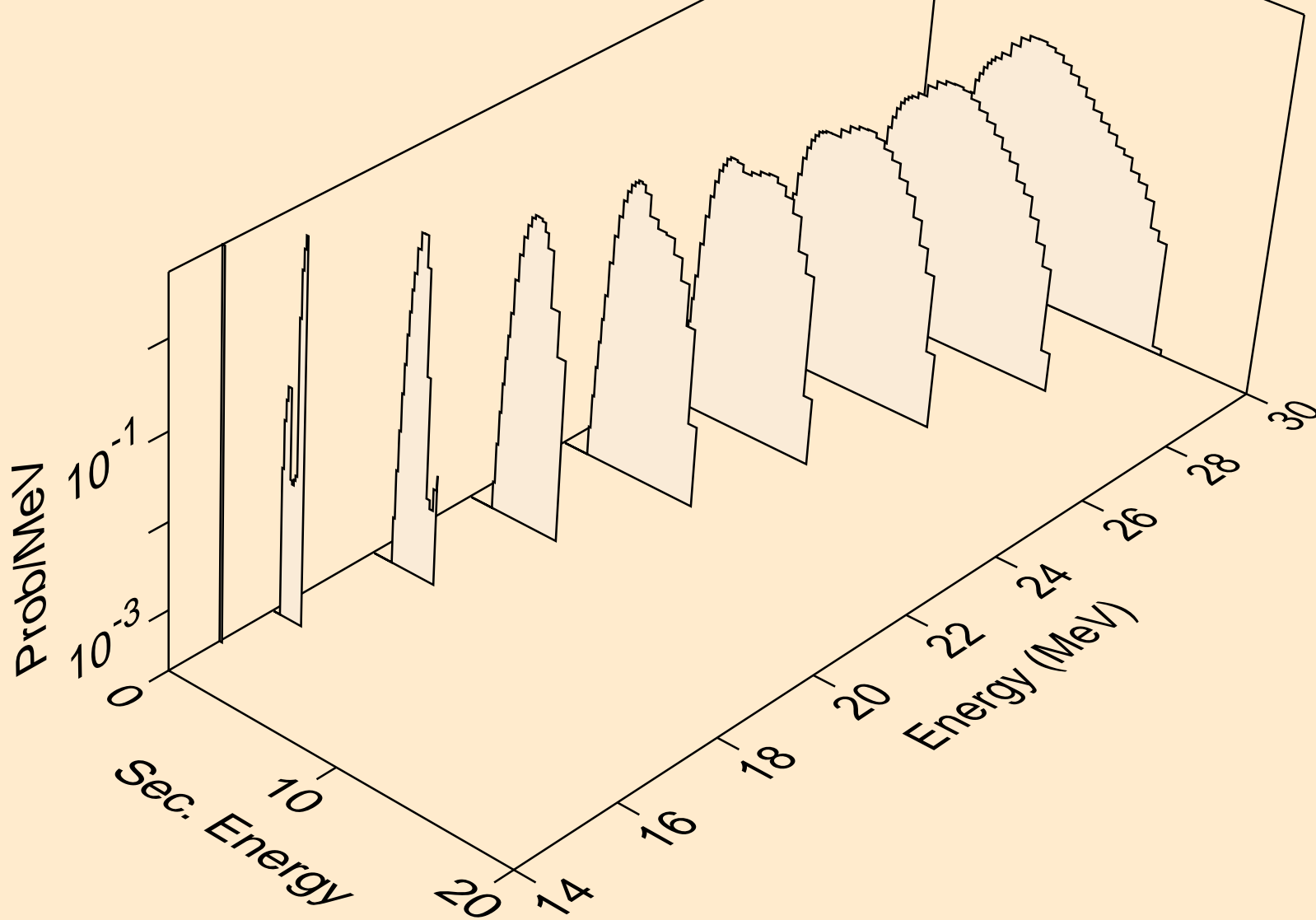
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protons from (n,x)



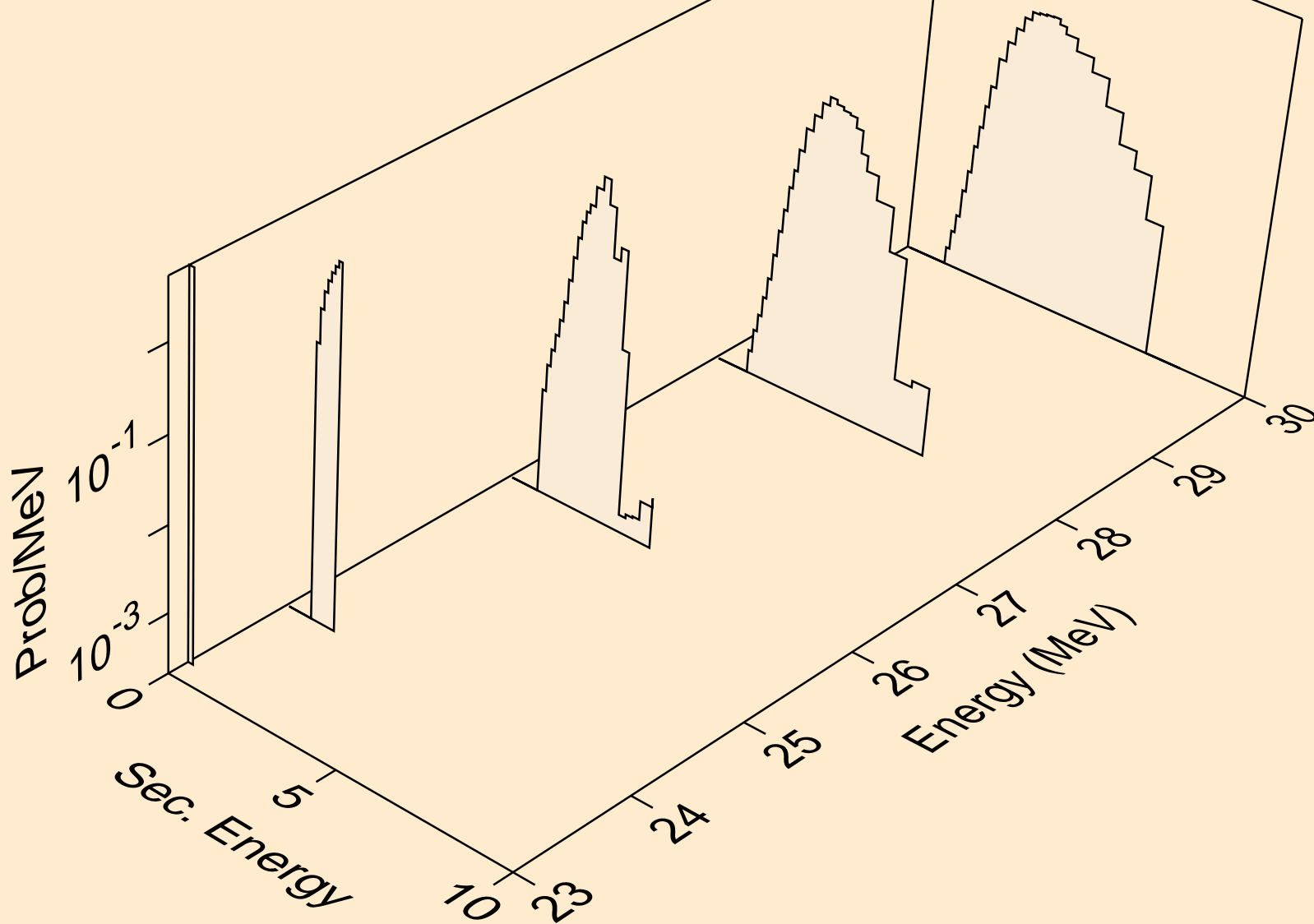
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protons from (n,n\*)p



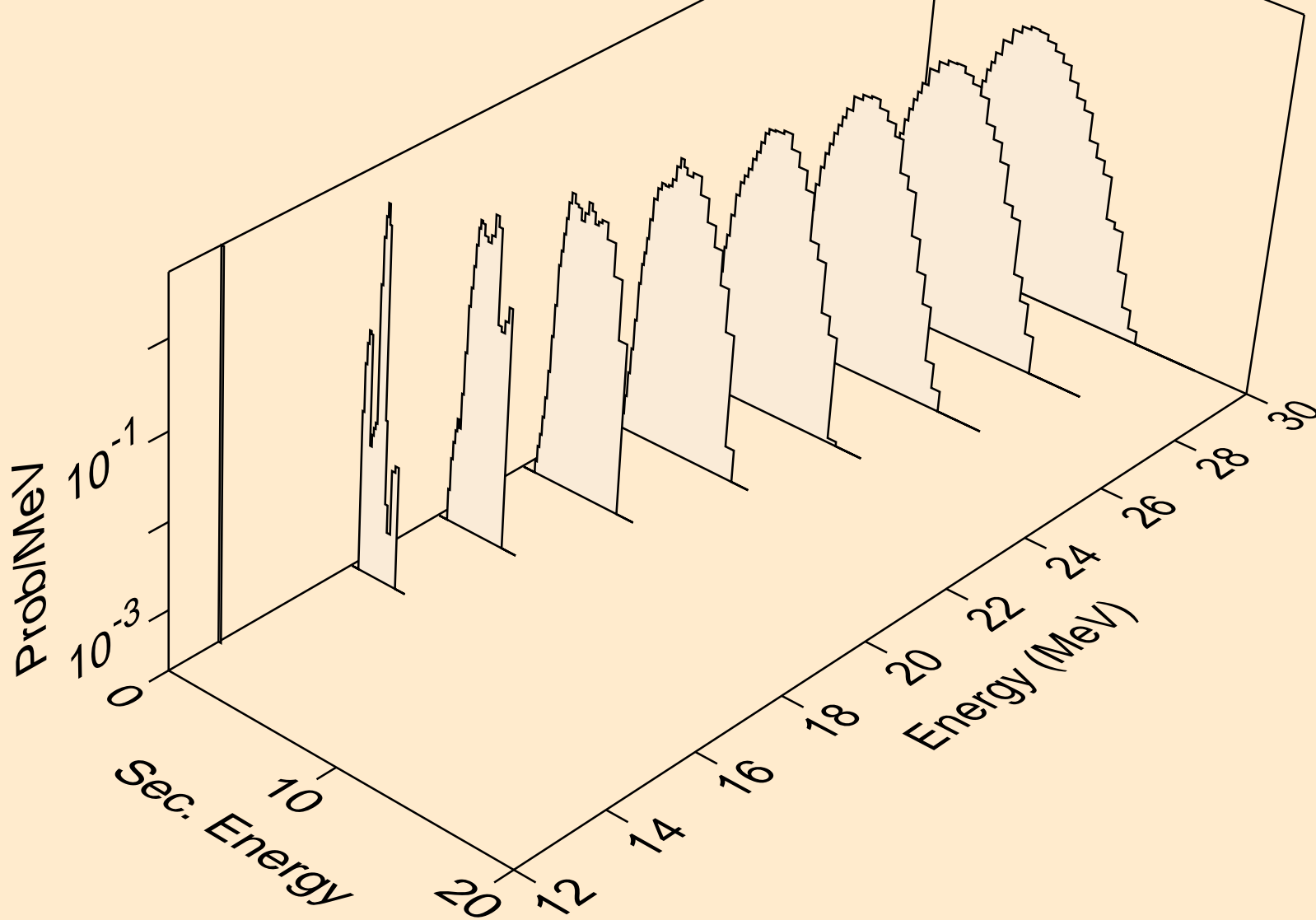
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protons from (n,2np)



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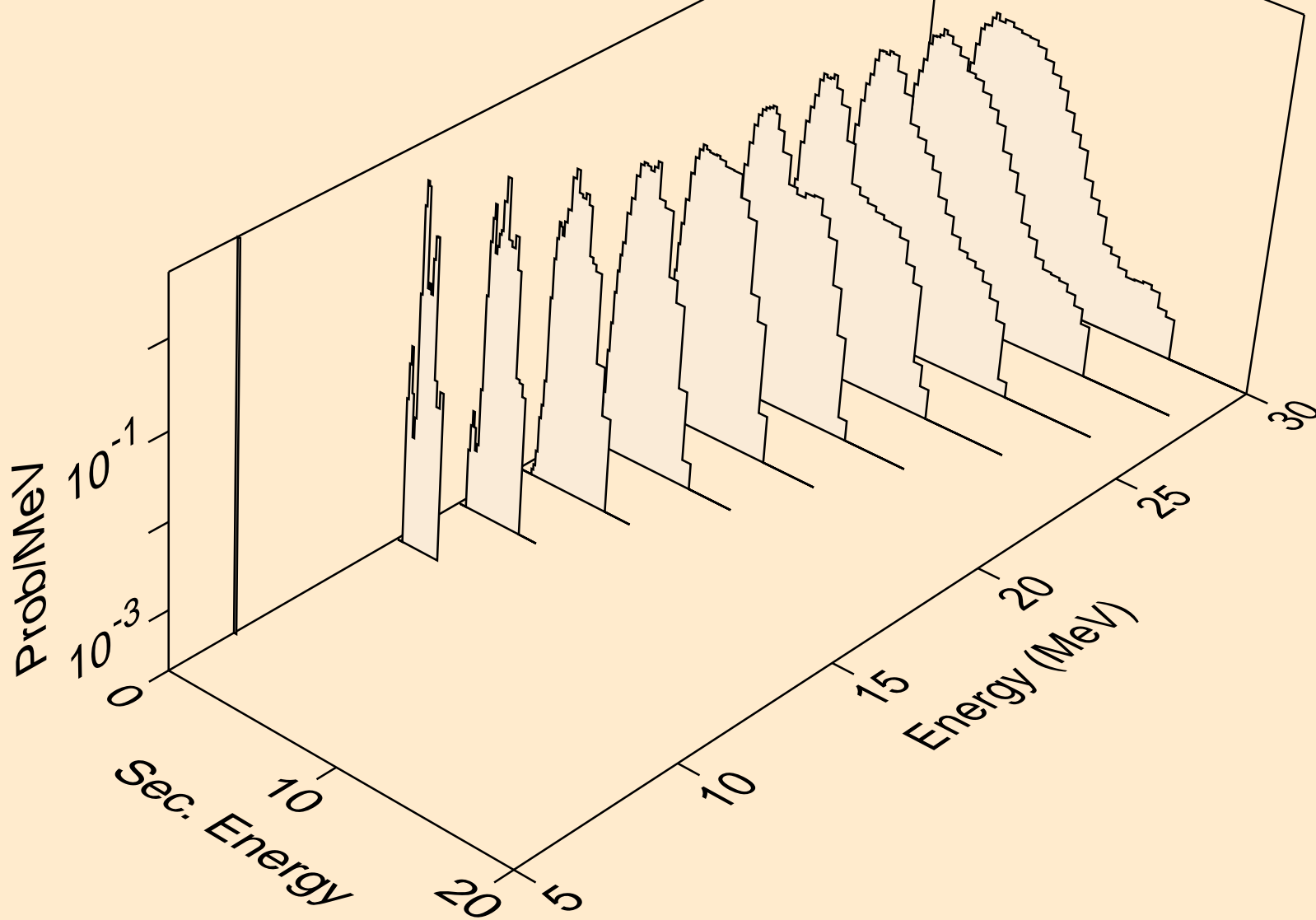


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protons from (n,2np)

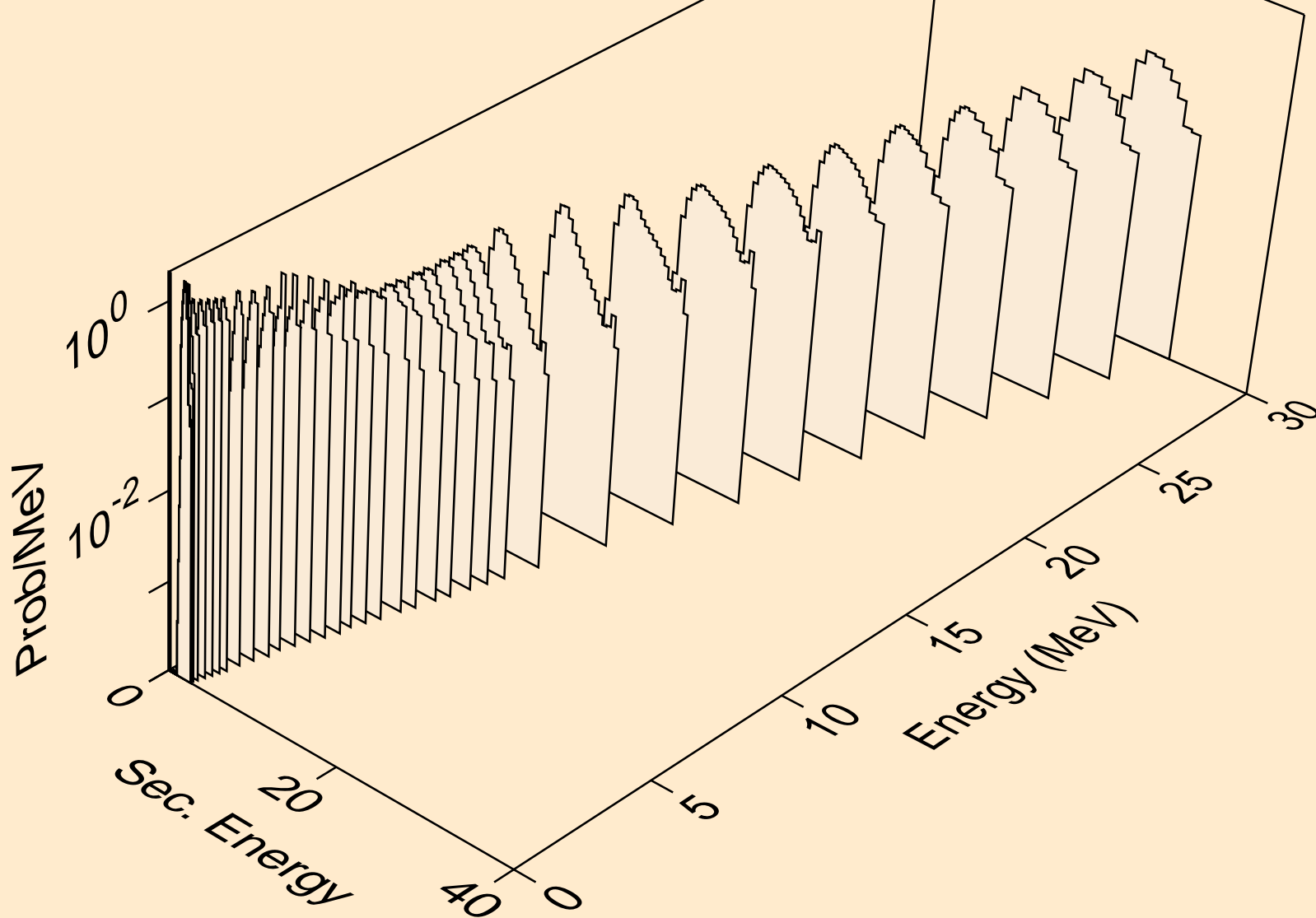




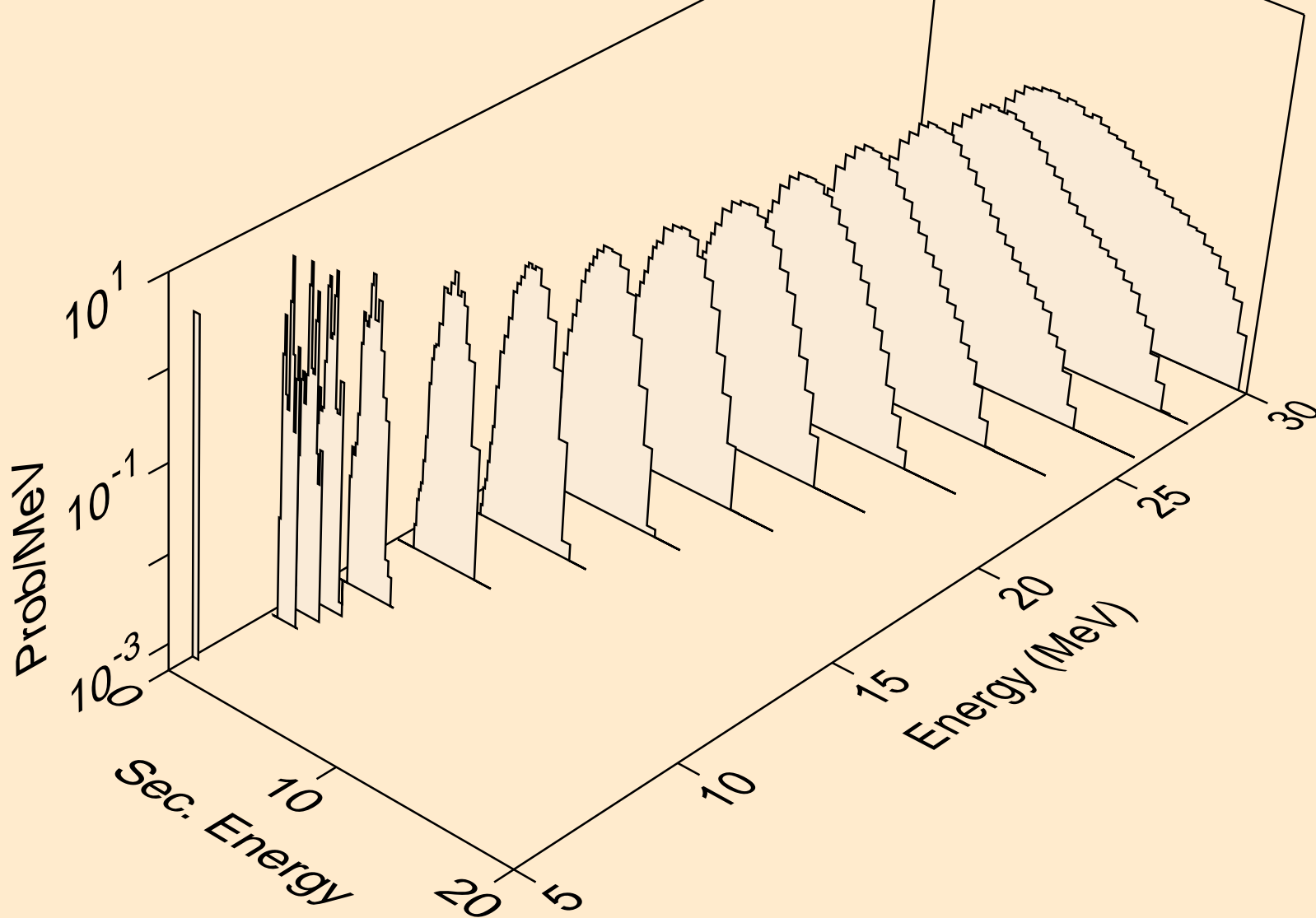
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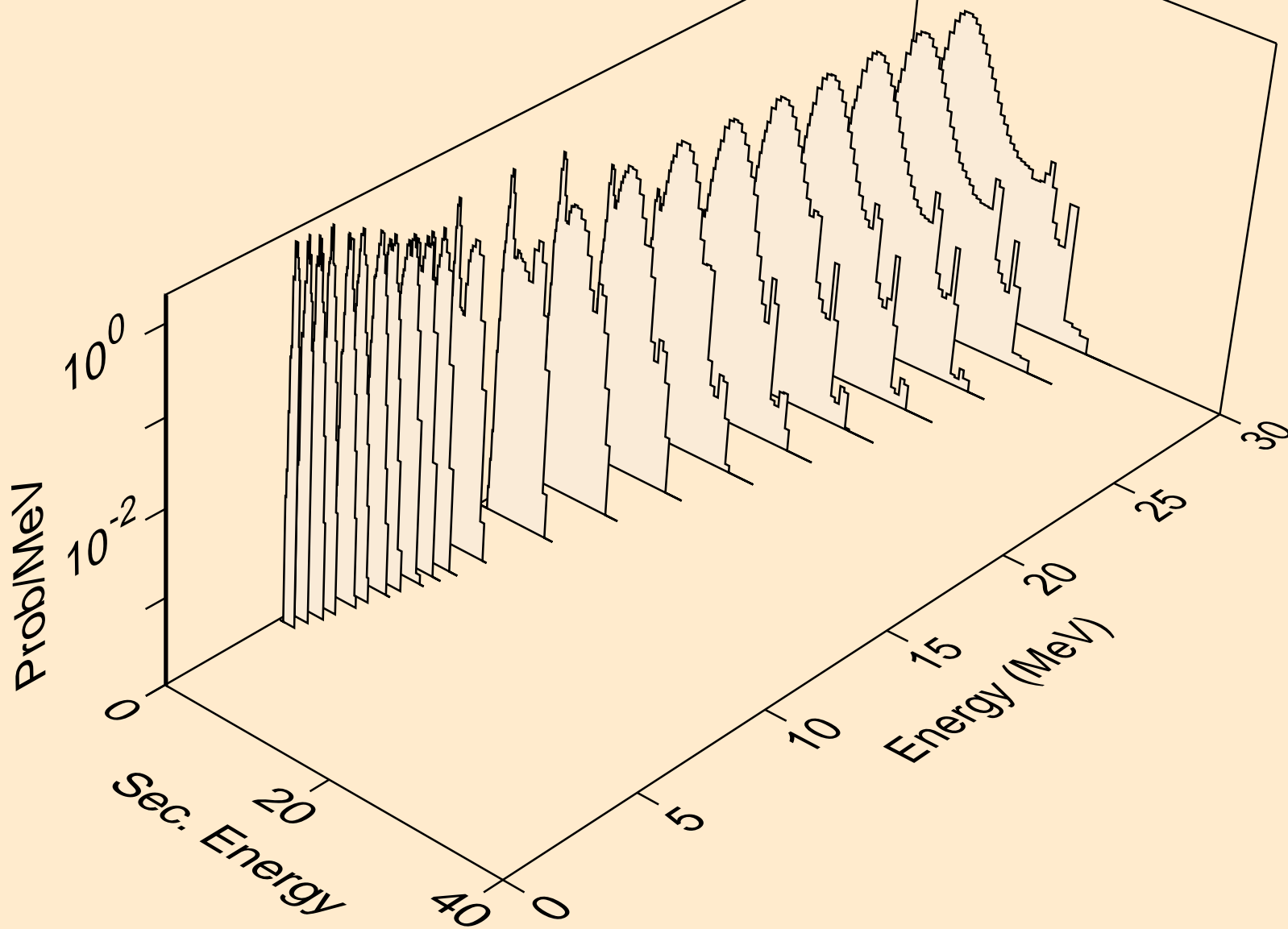
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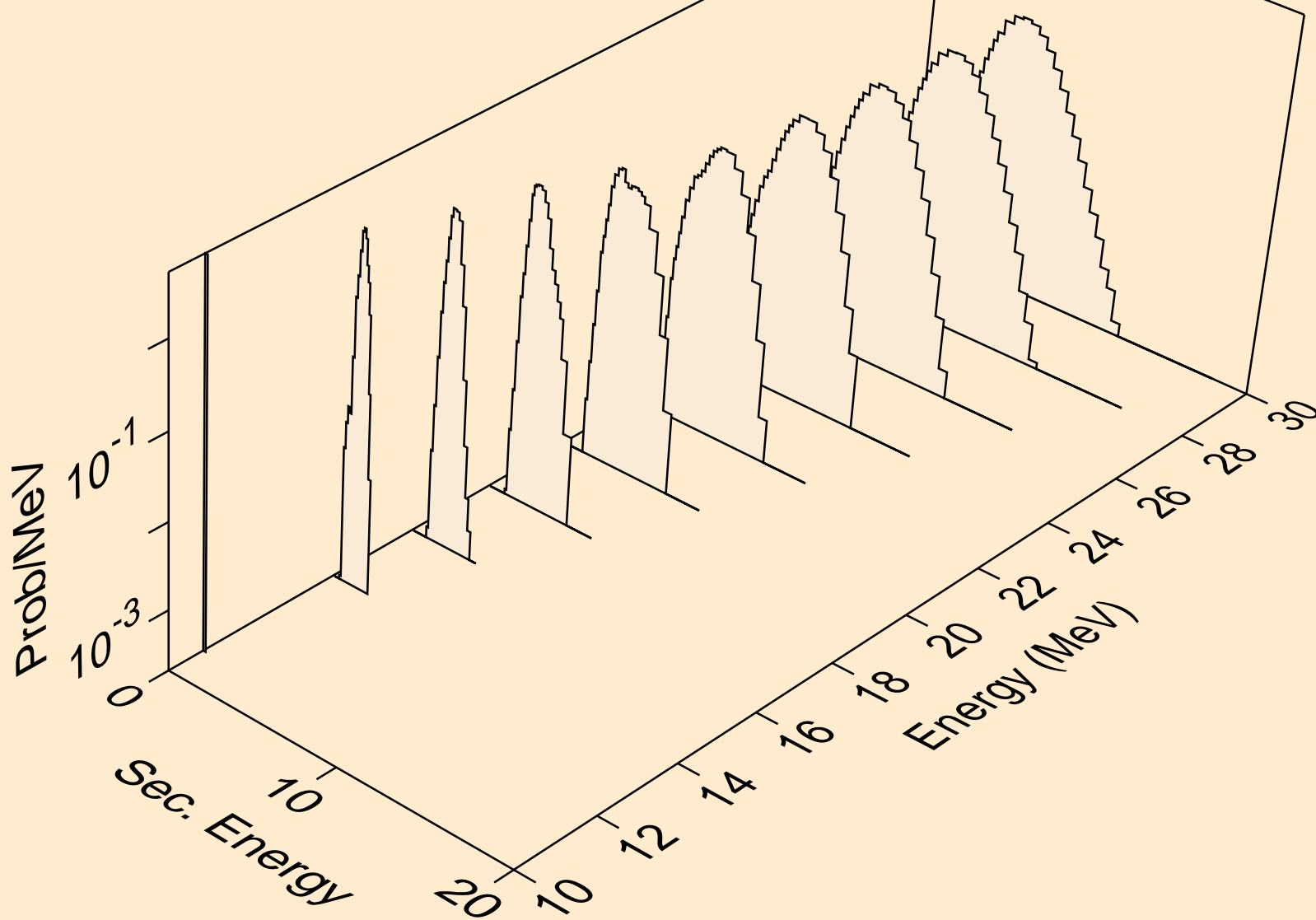
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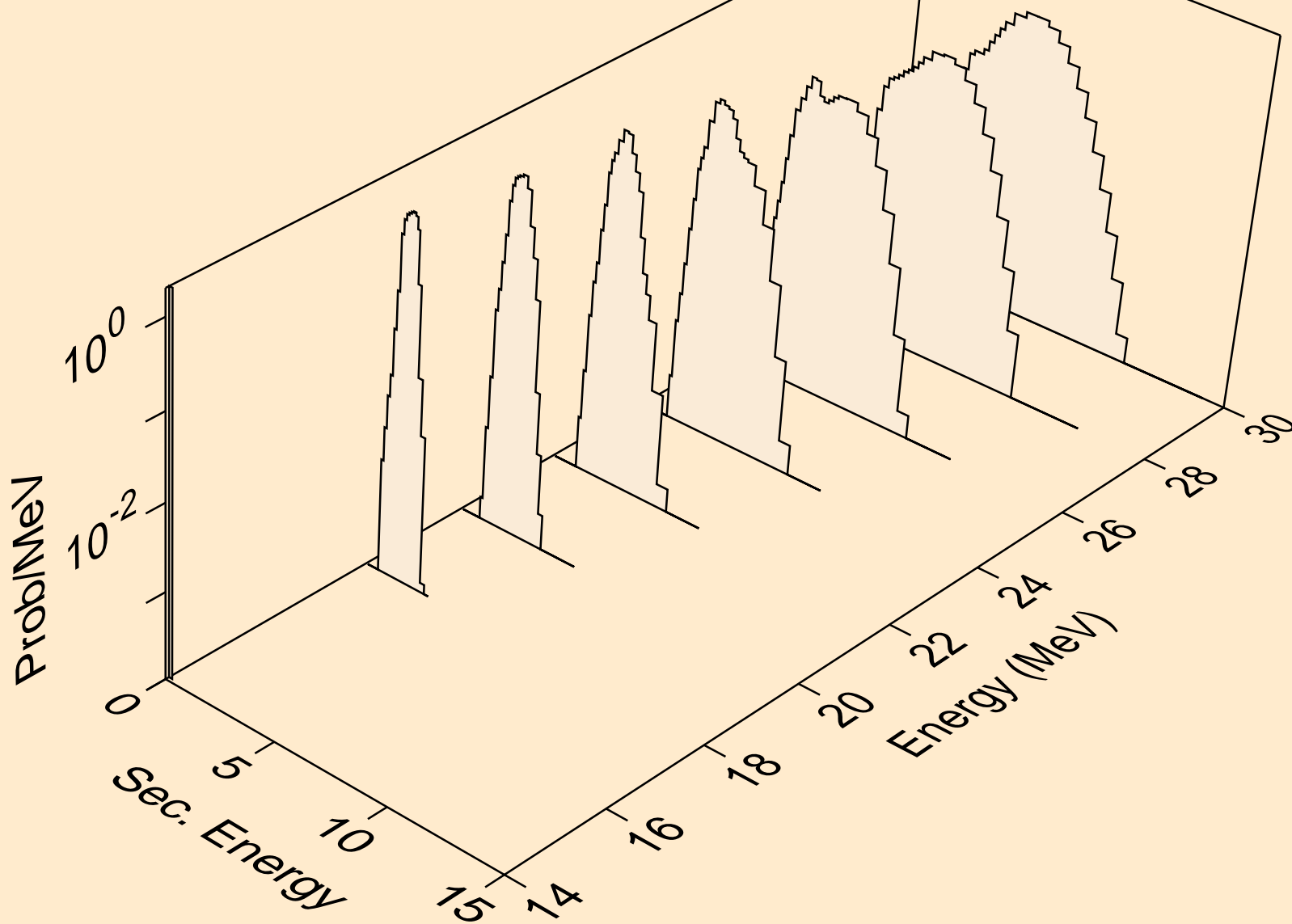
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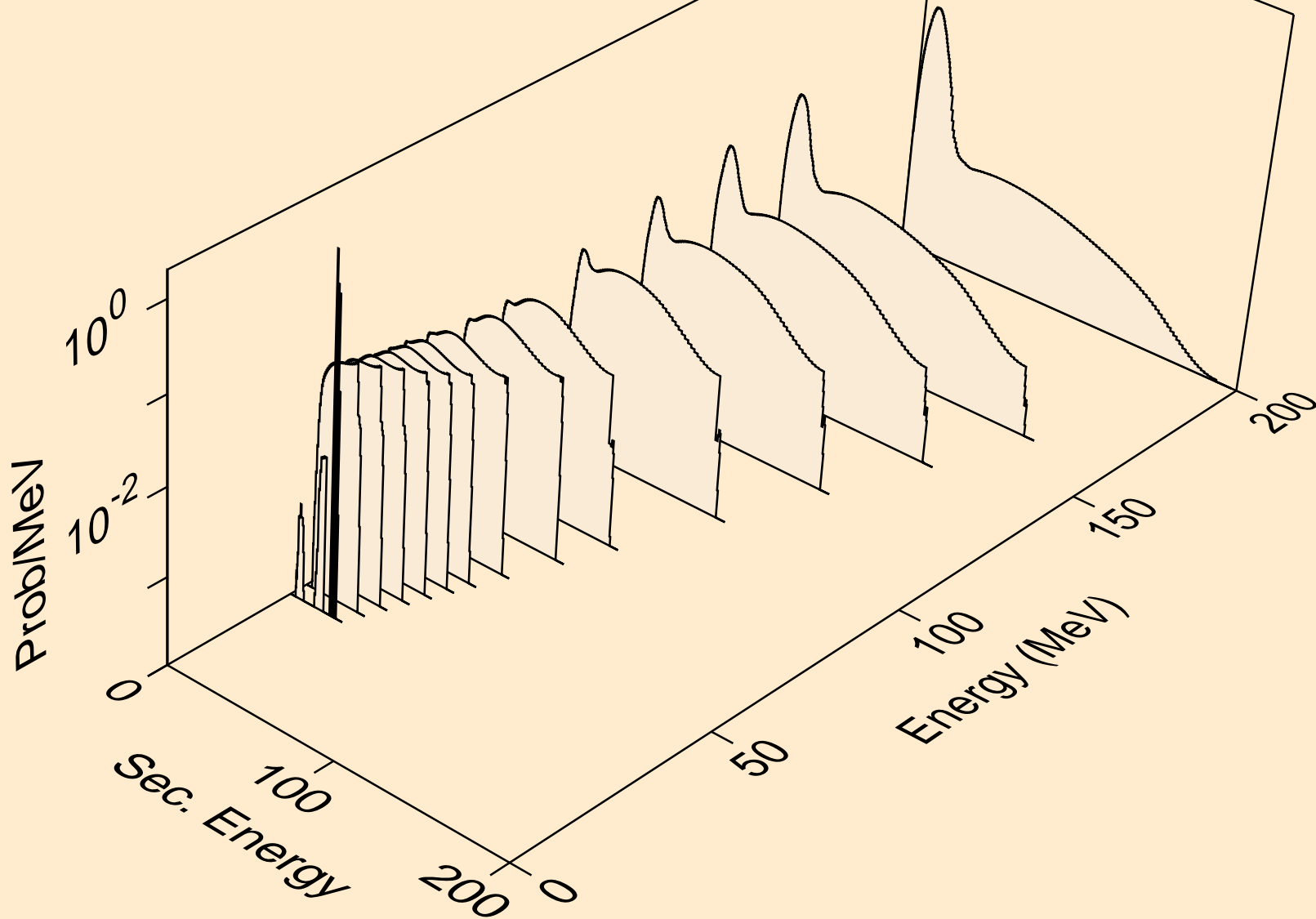
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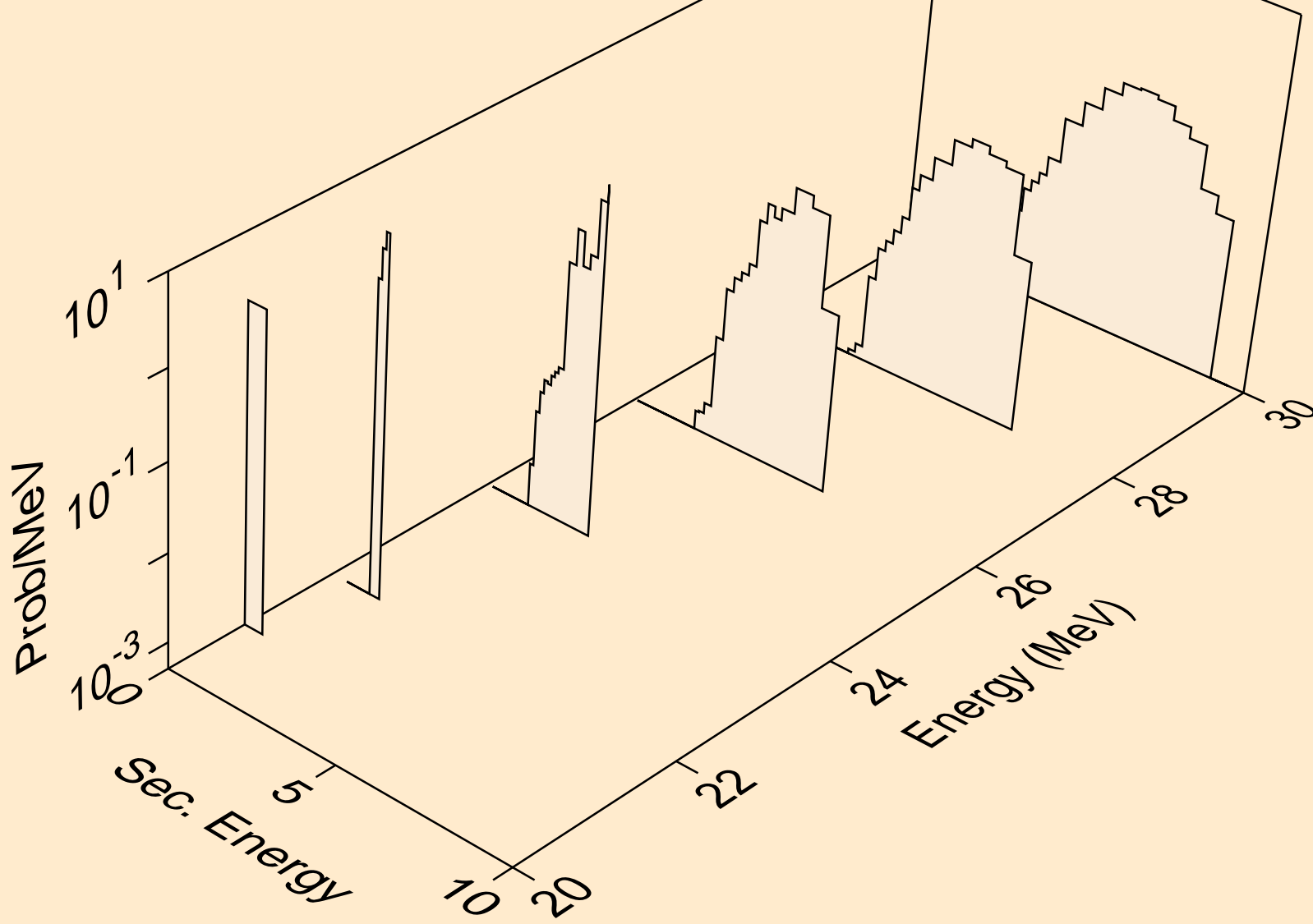
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protons from (n,pt)



MAT=4513 ACE FILE PRODUCED AT NEA WITH NDEC  
deuterons from (n,x)

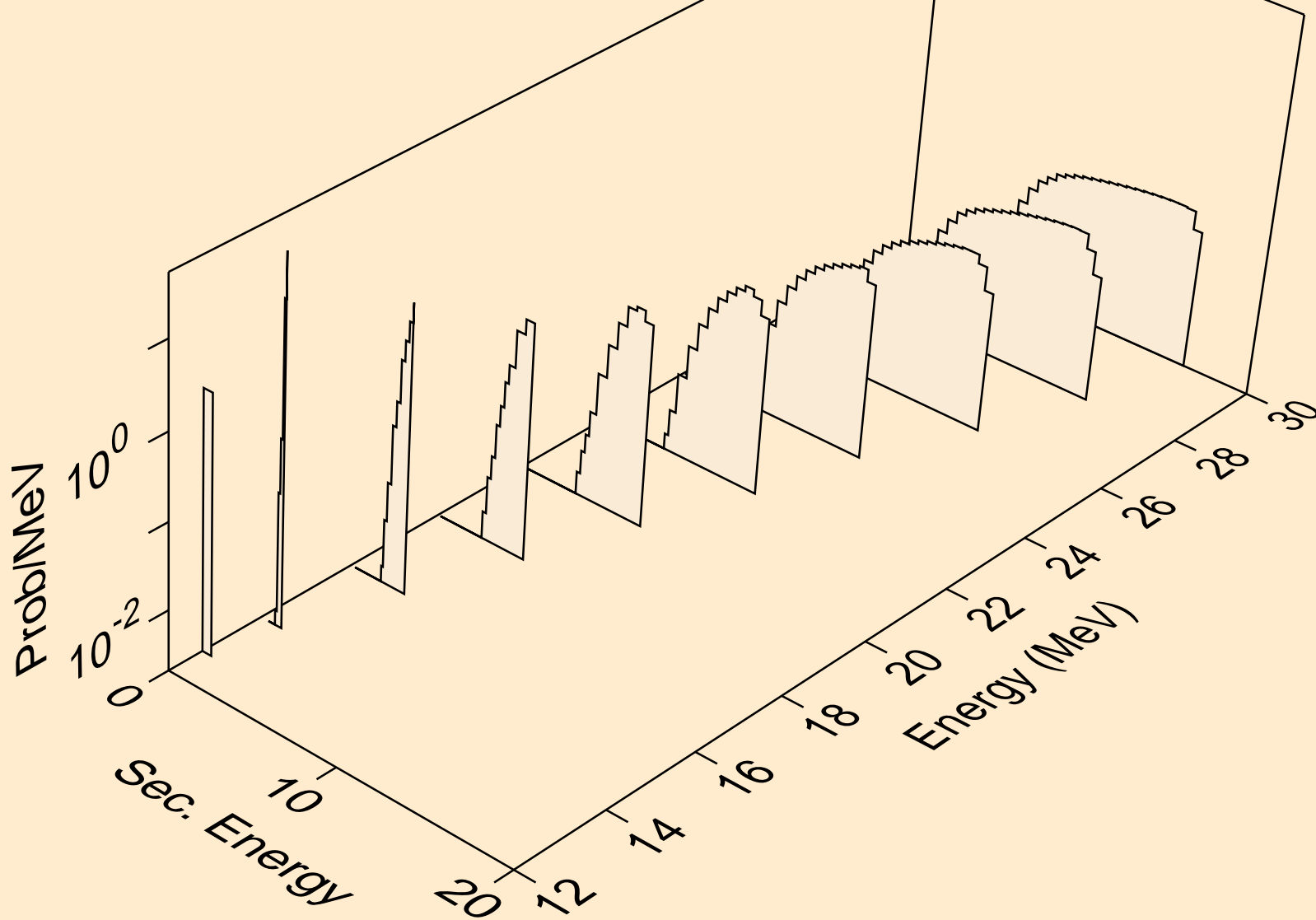


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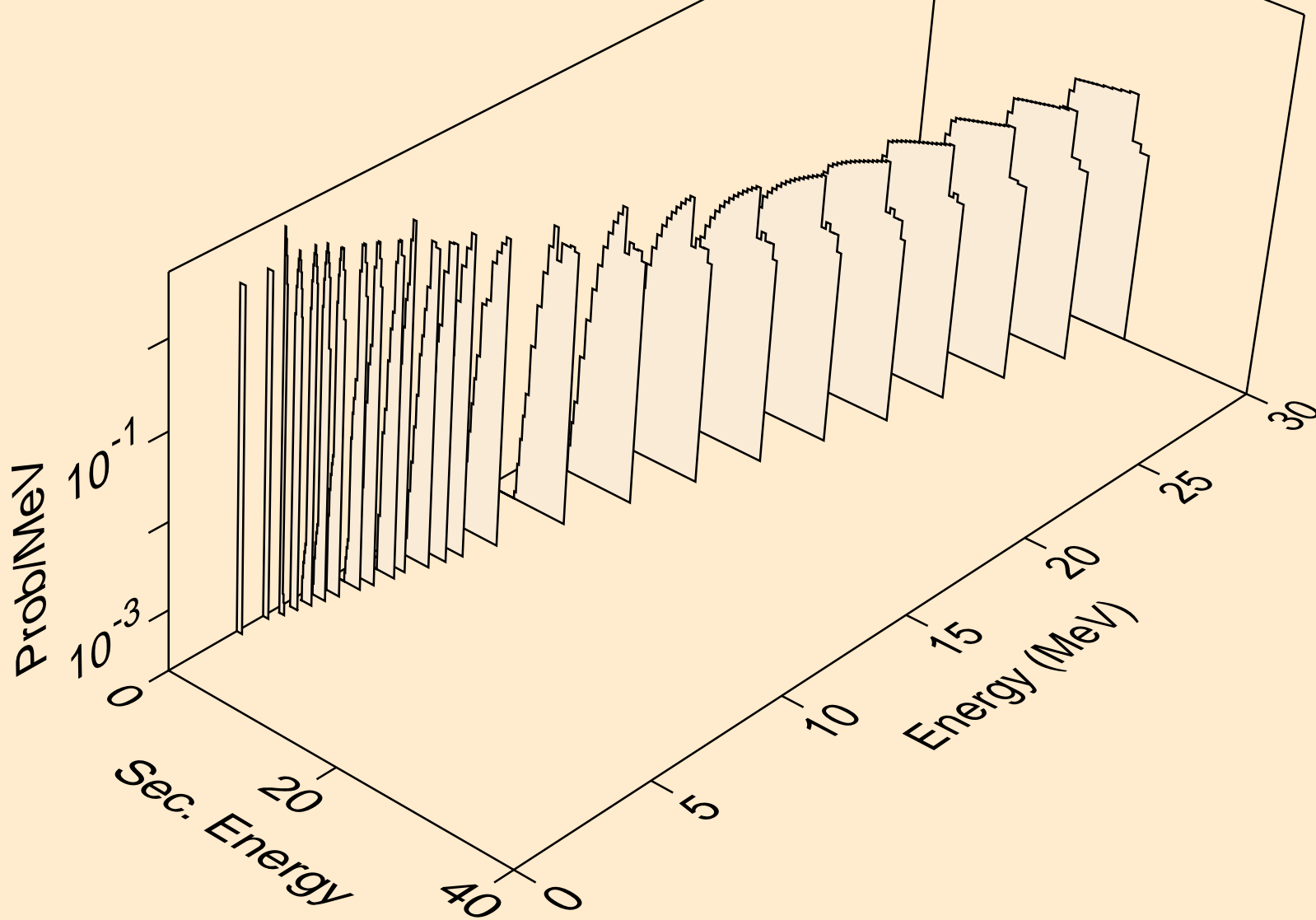




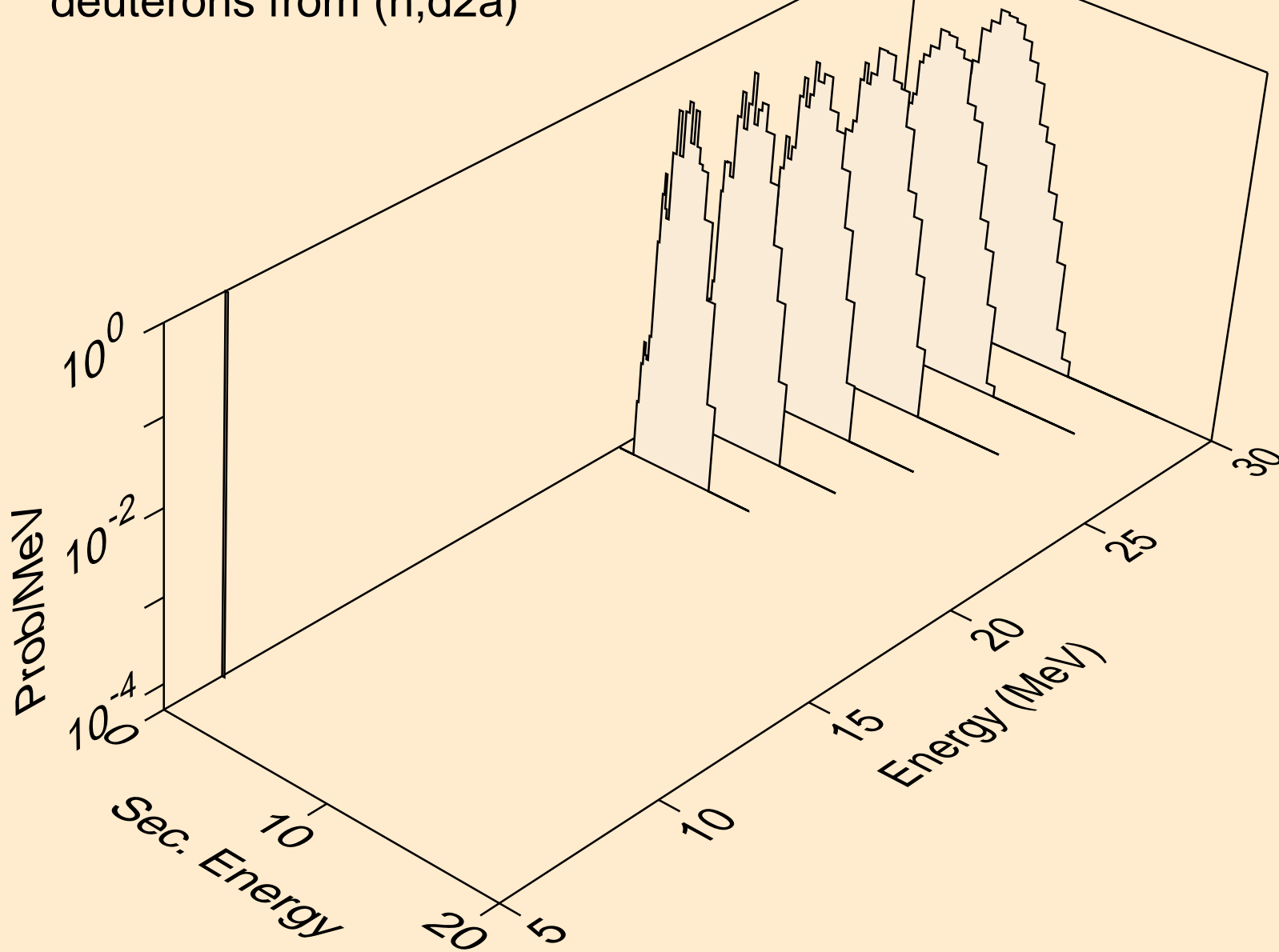
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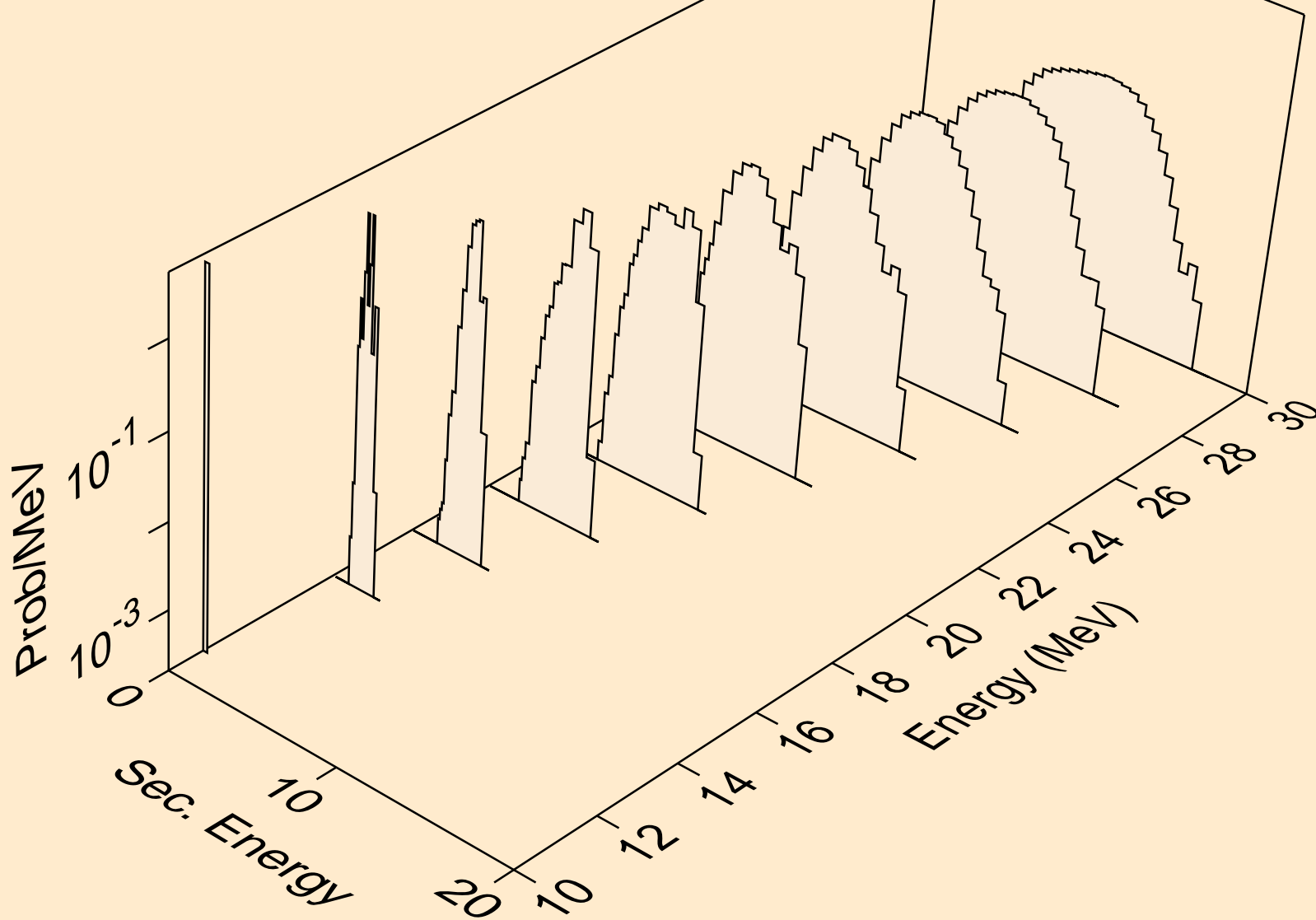
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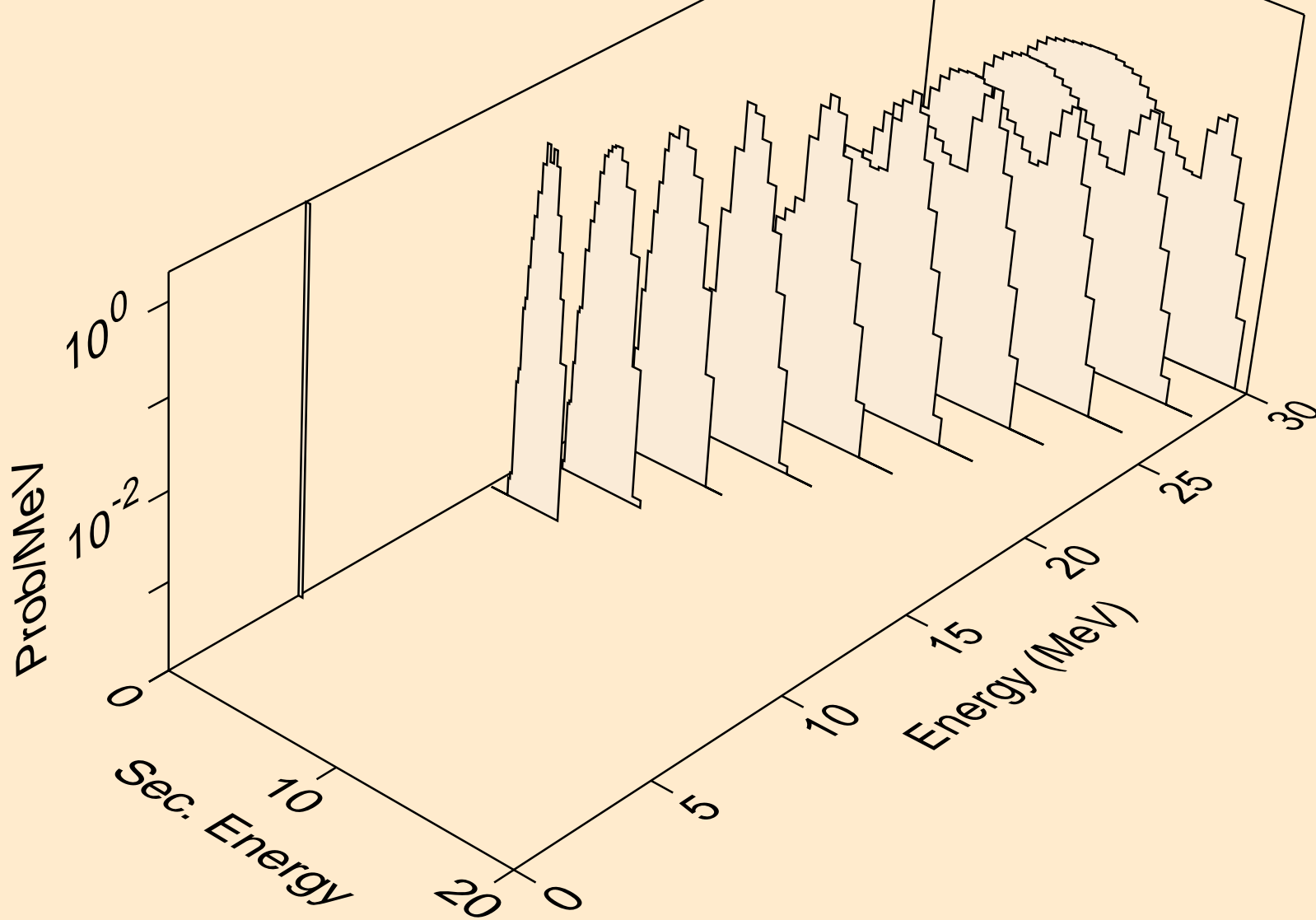
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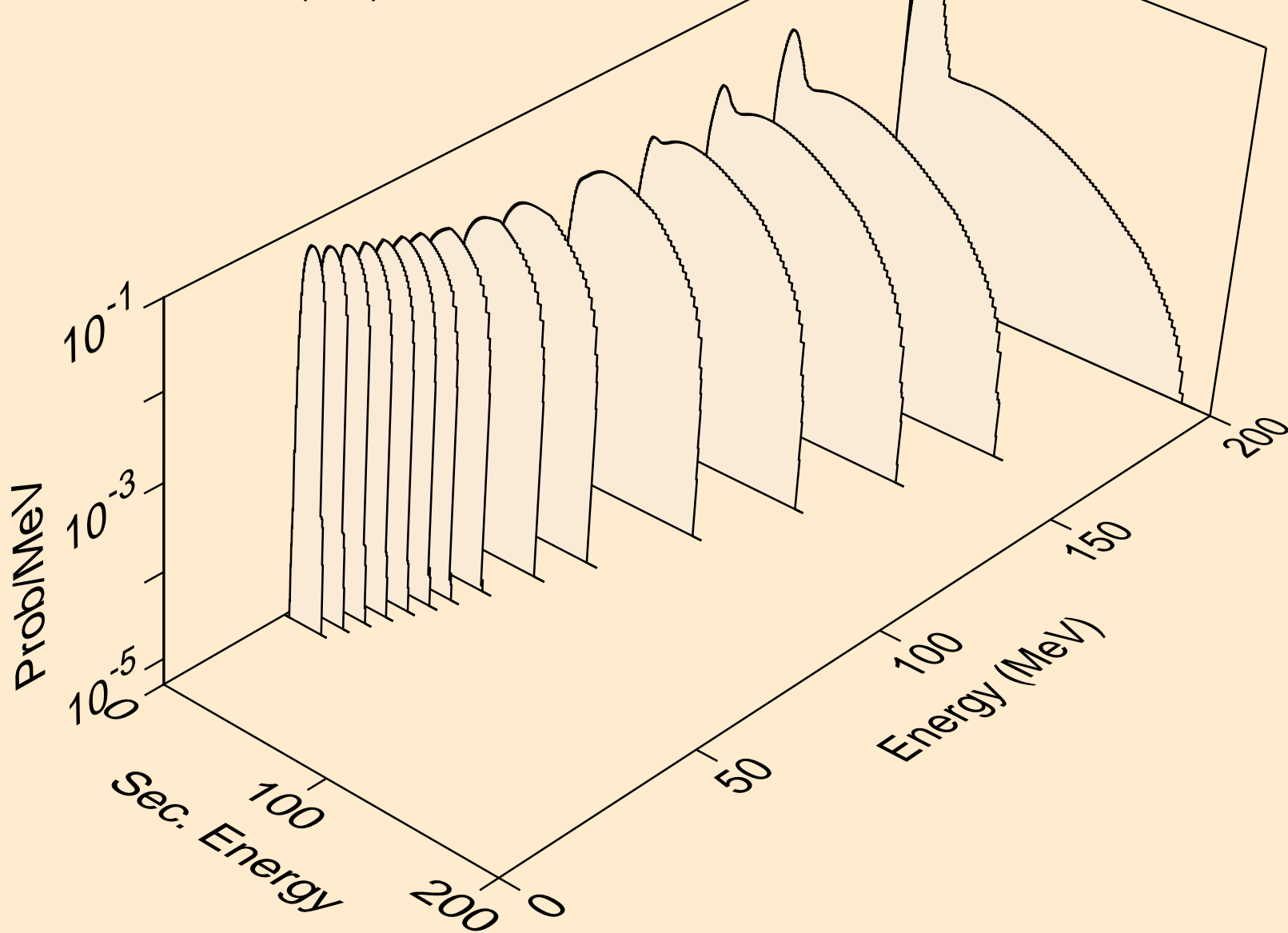
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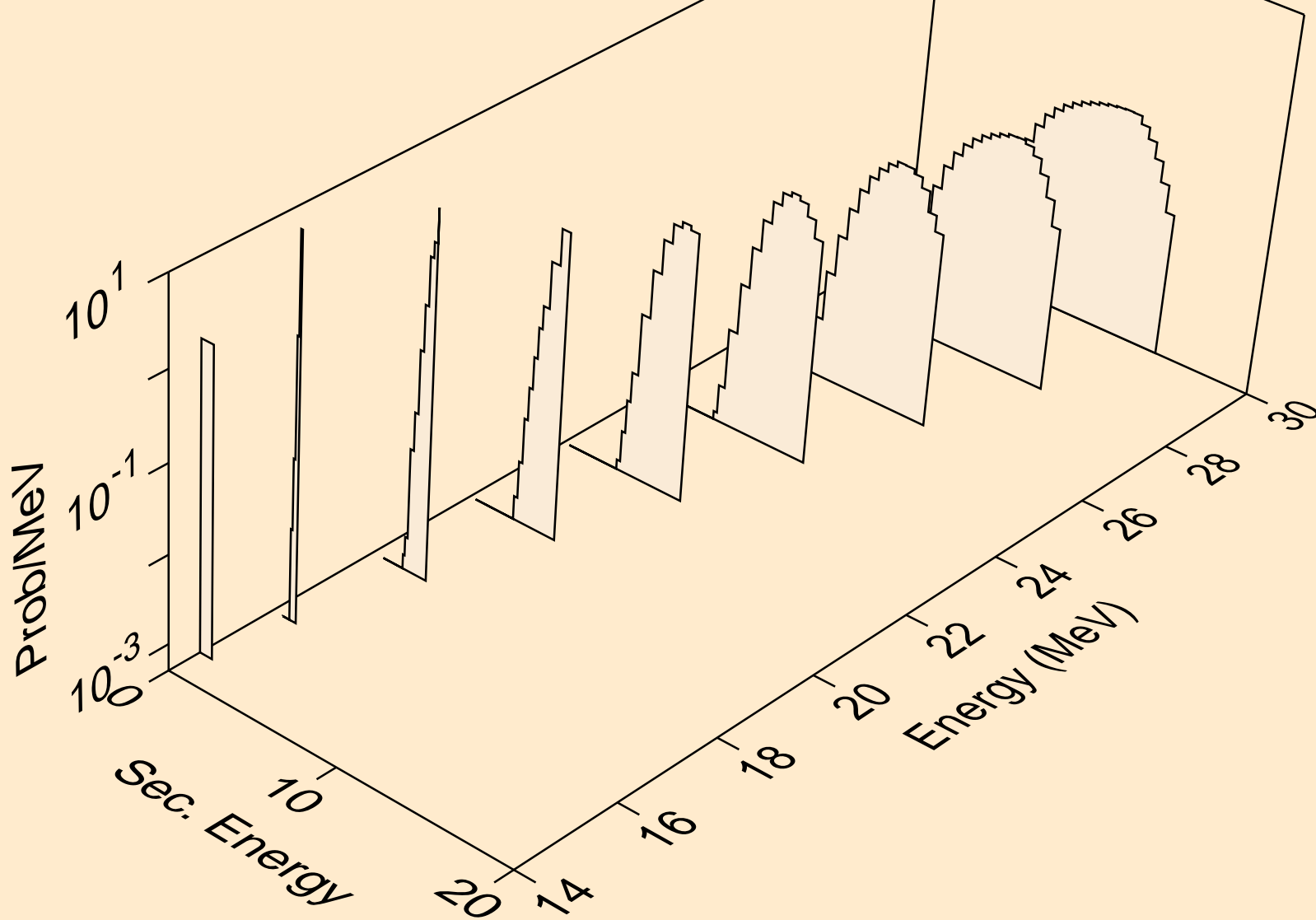
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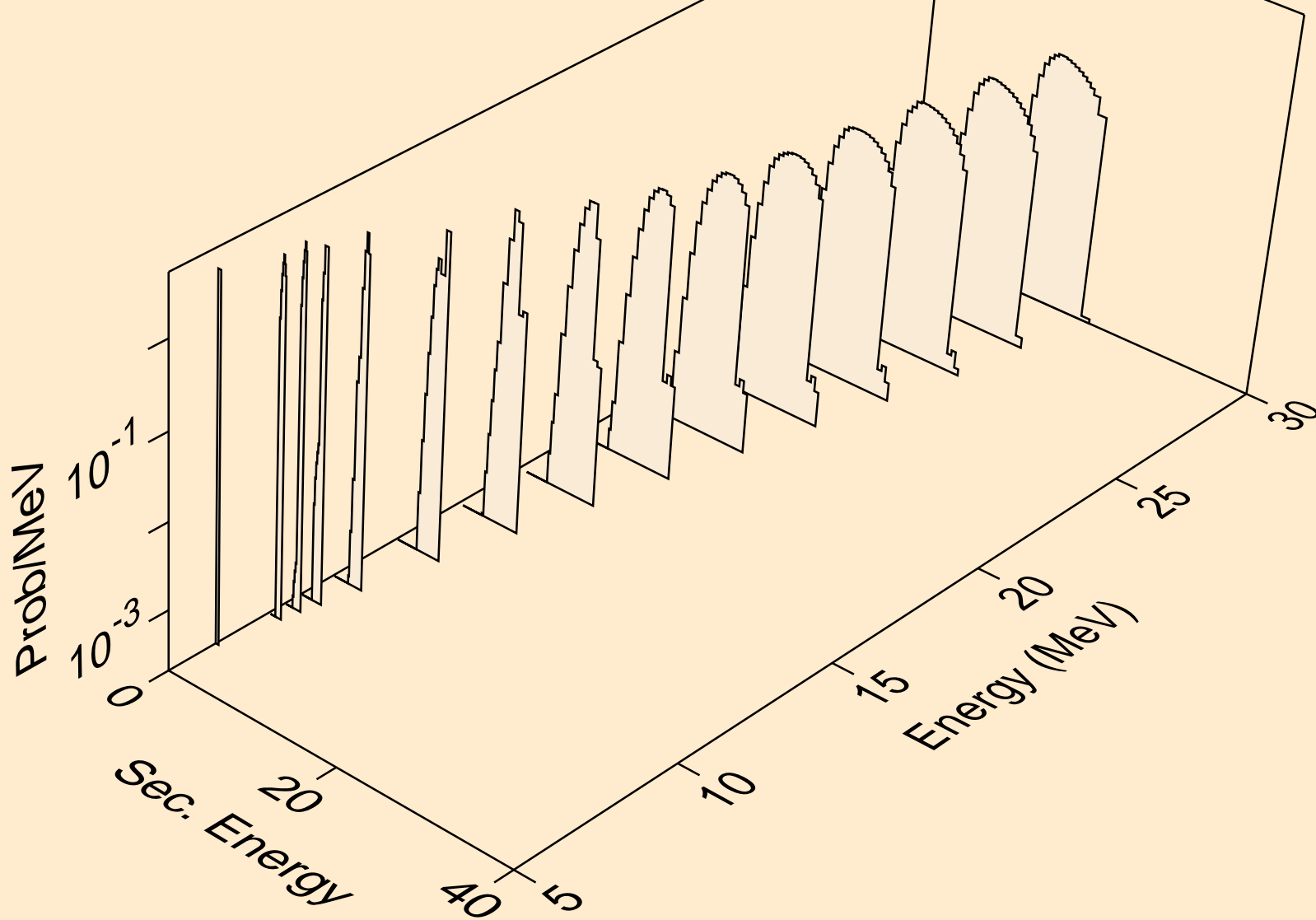
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tritons from (n,x)



MAT=4513 ACE FILE PRODUCED AT NEA WITH NDEC  
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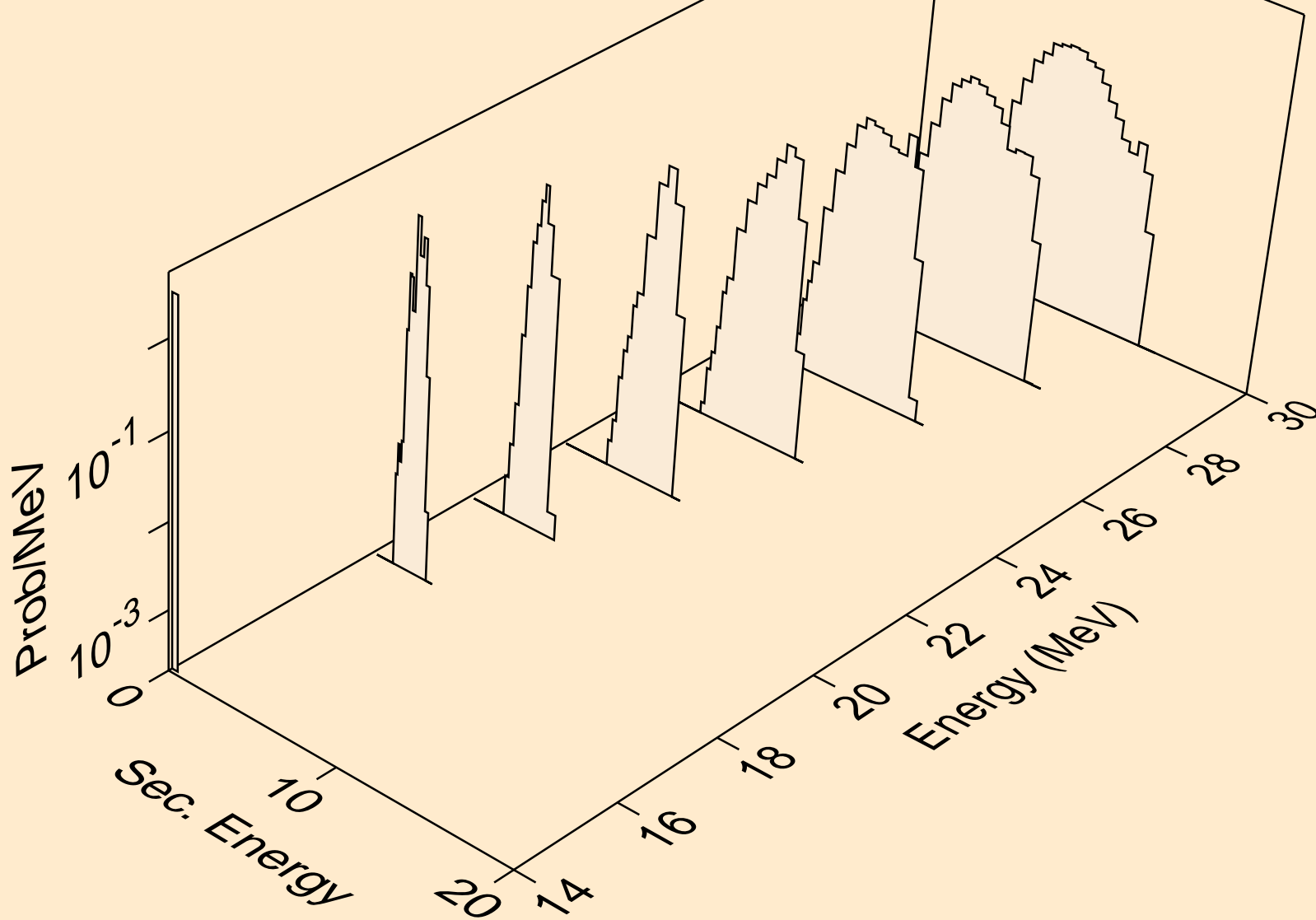


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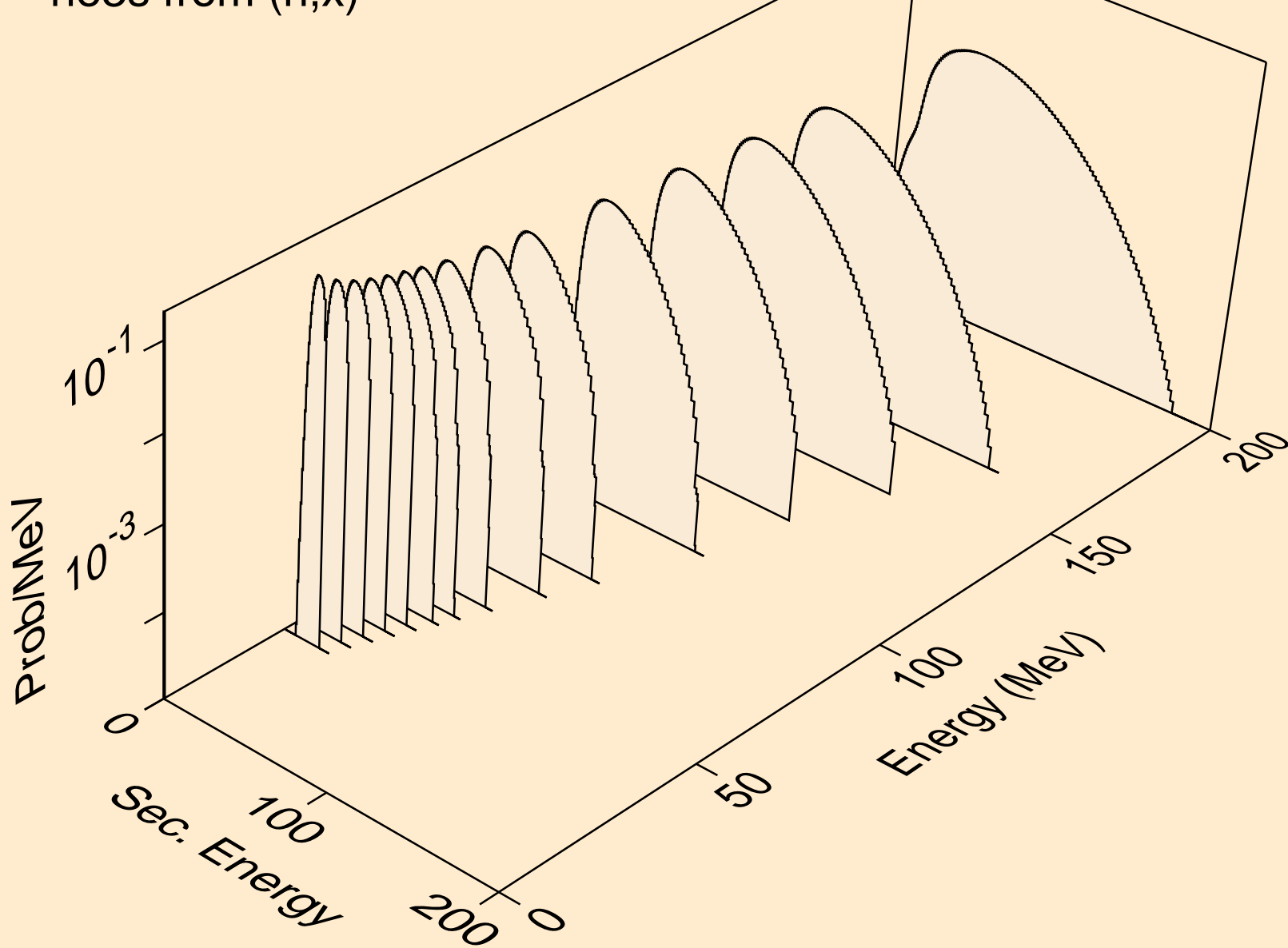




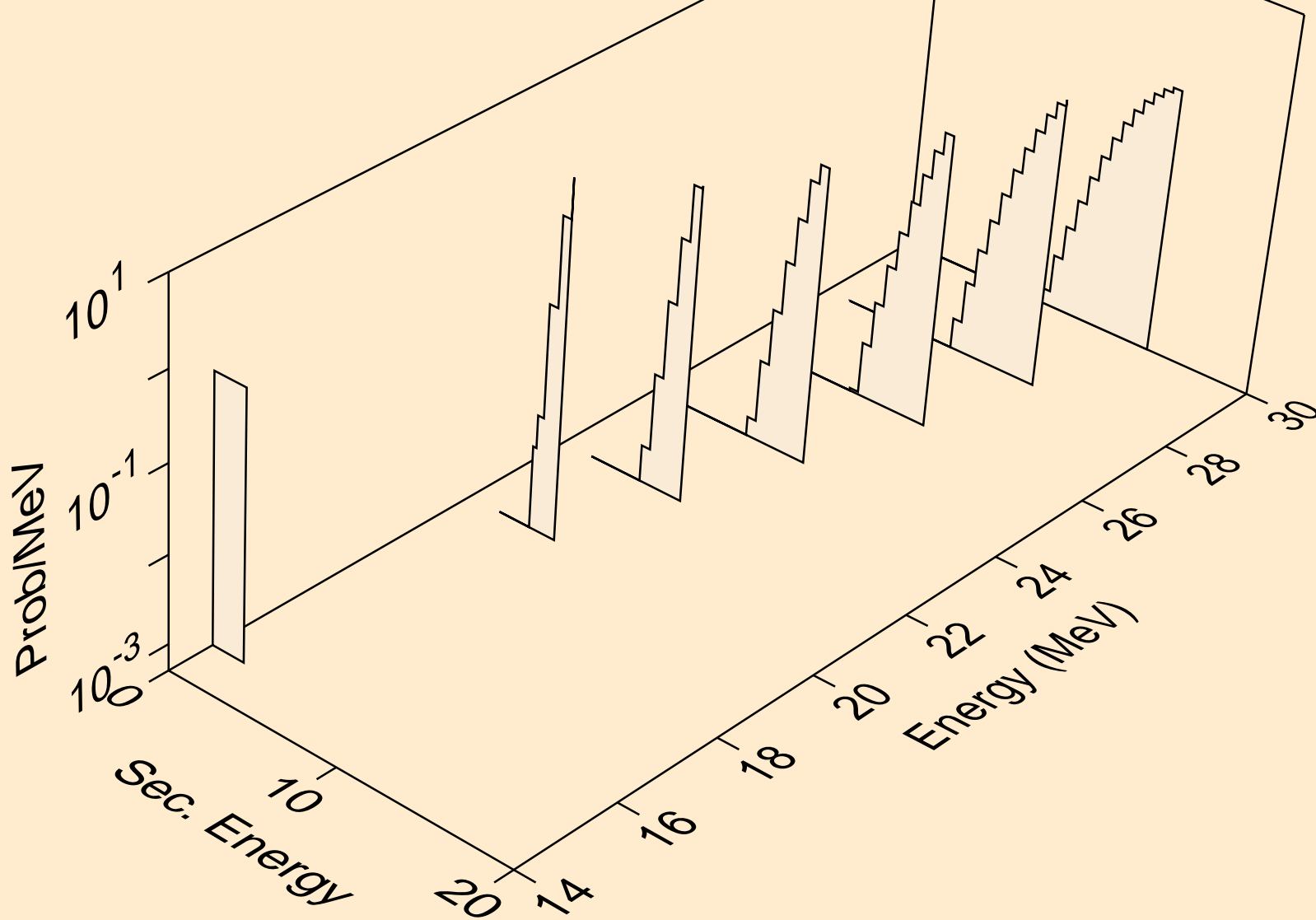
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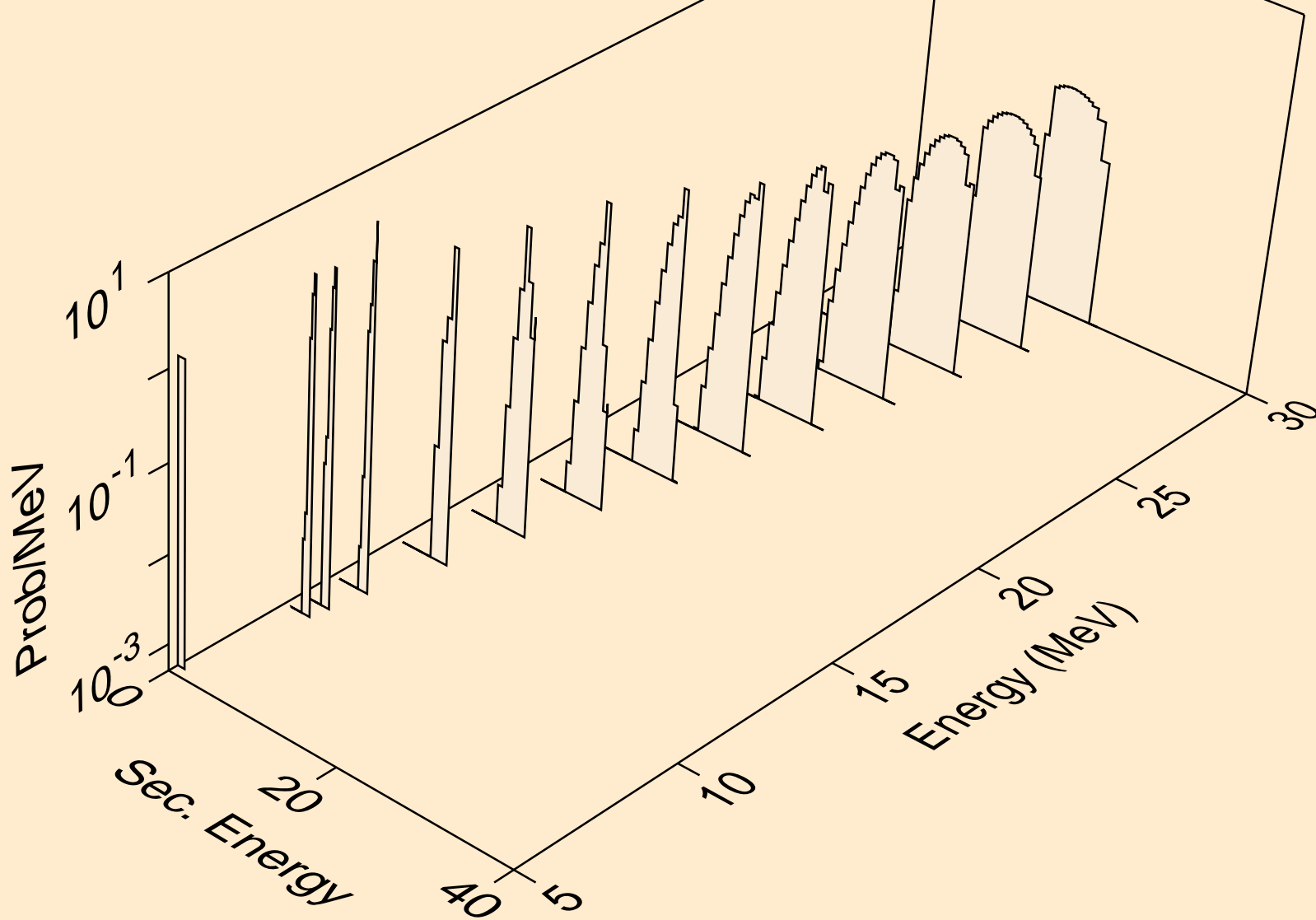
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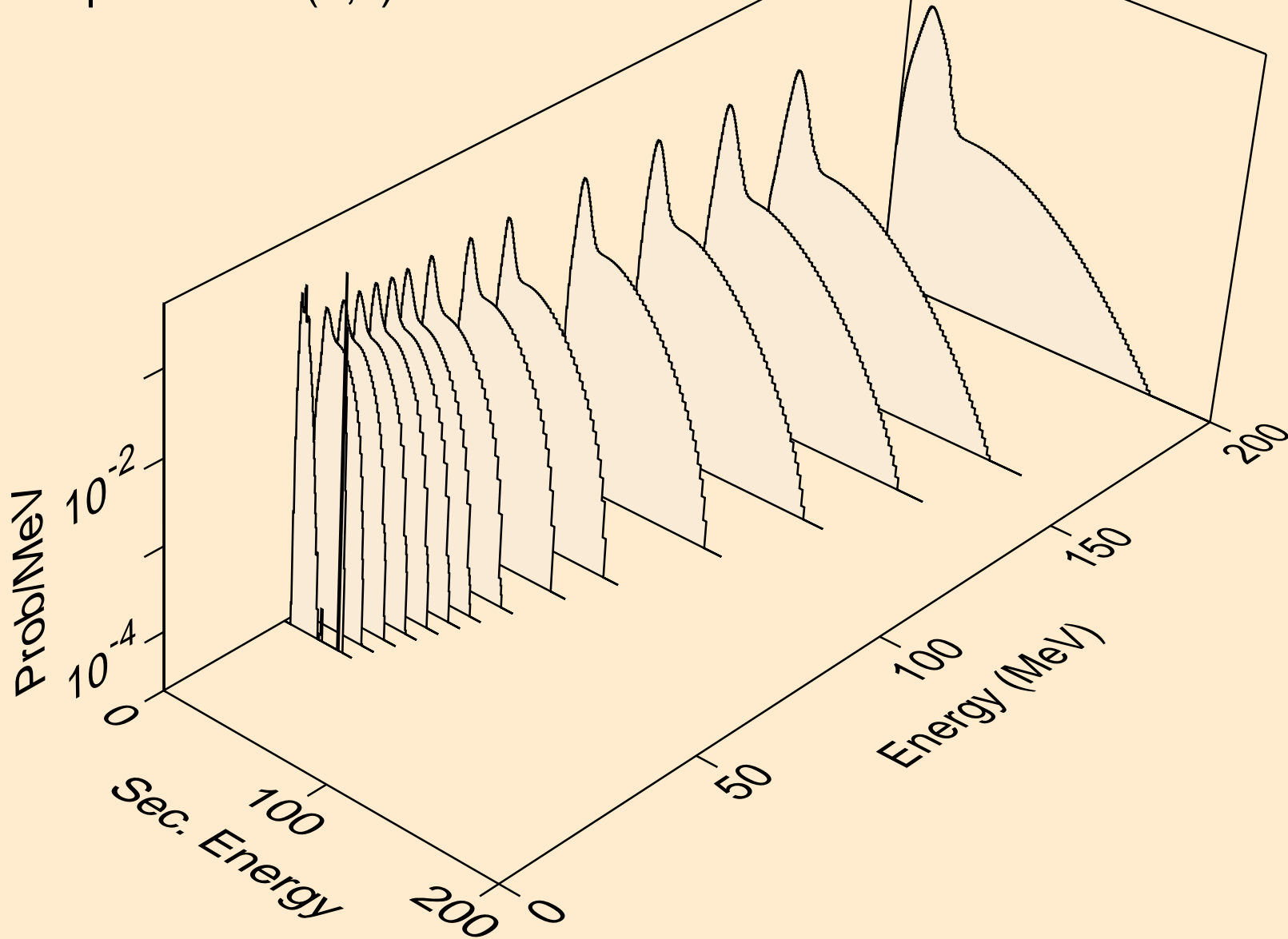
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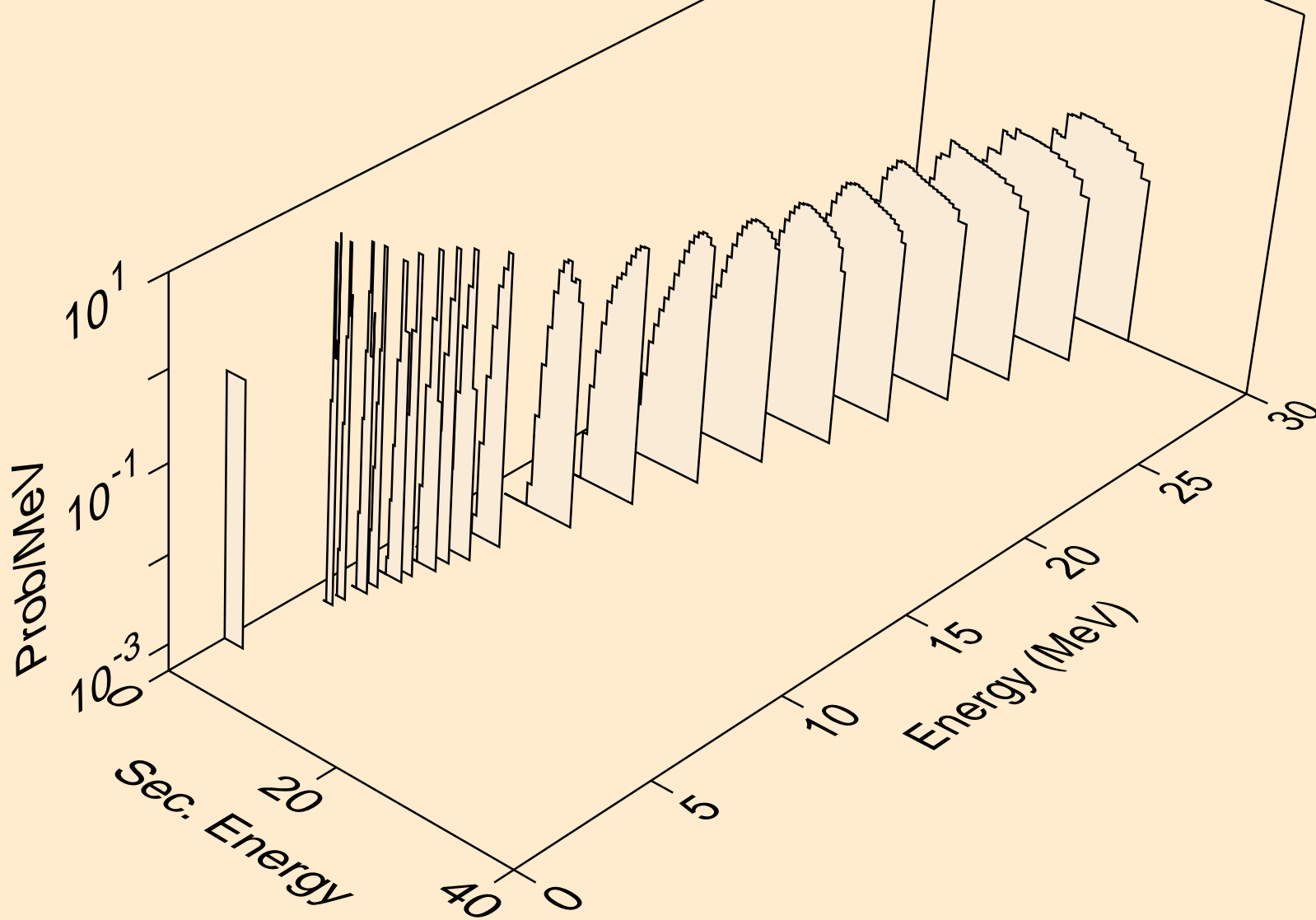
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he3s from (n,he3)



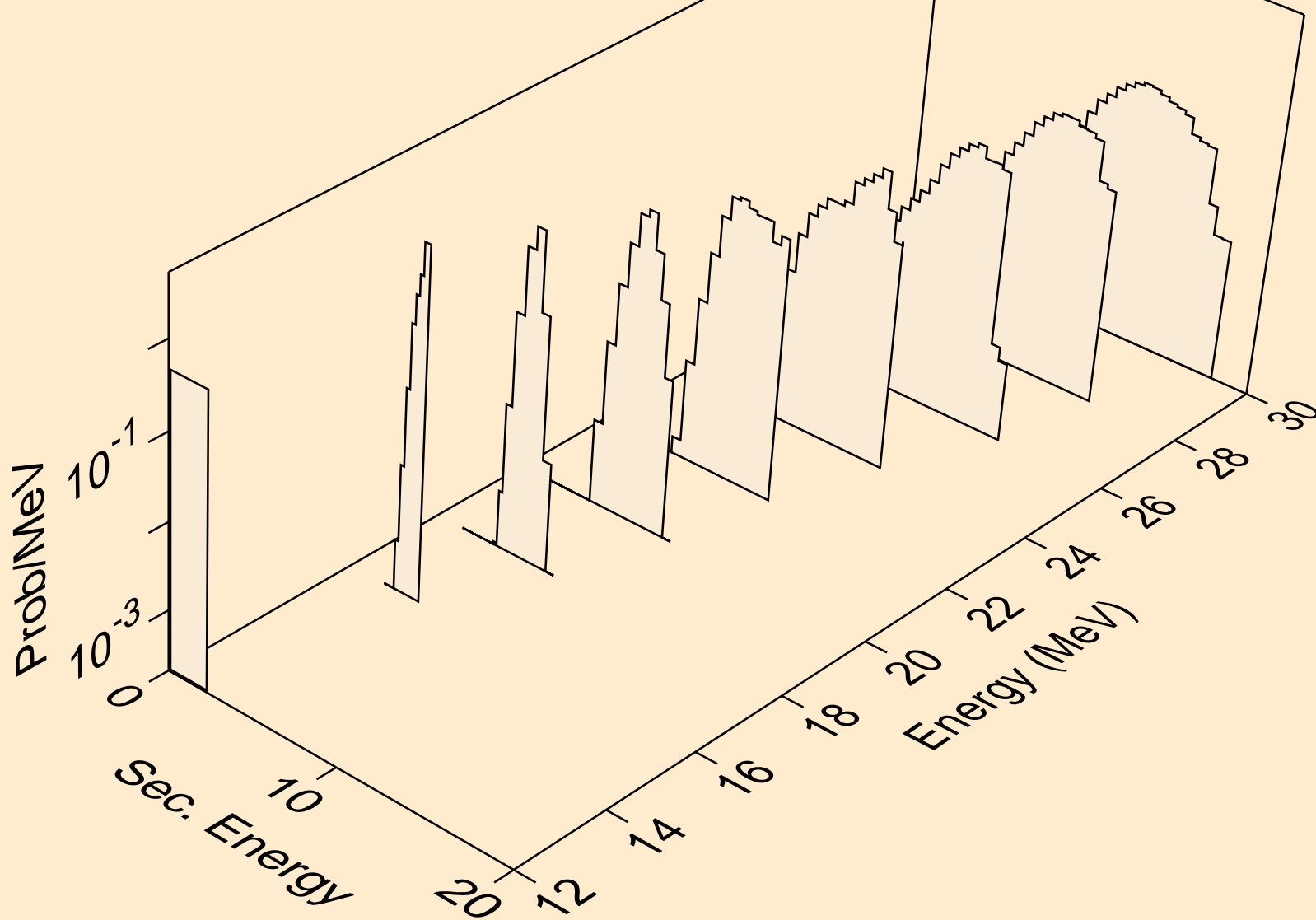
MAT=4513 ACE FILE PRODUCED AT NEA WITH NDEC  
alphas from (n,x)



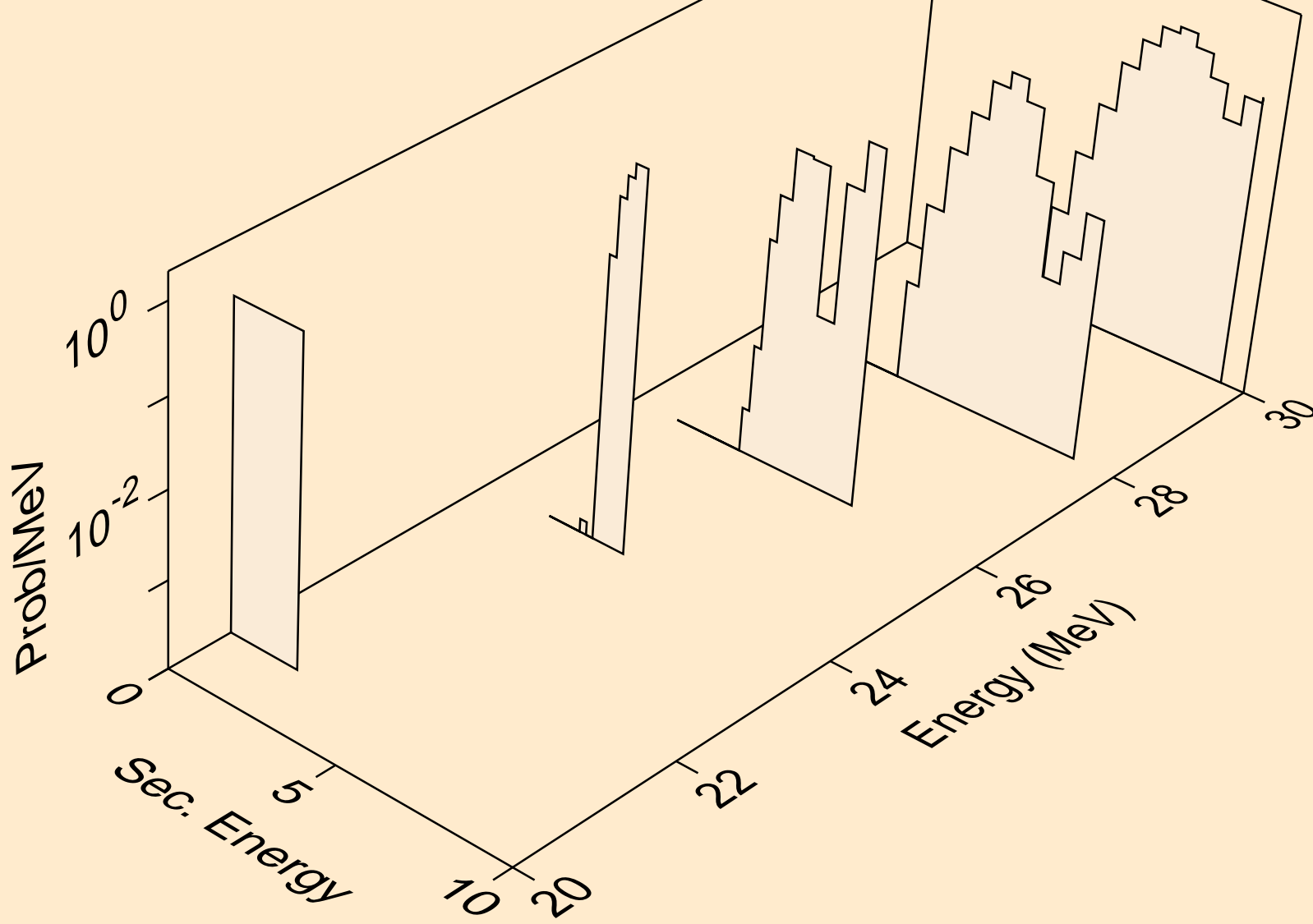
MAT=4513 ACE FILE PRODUCED AT NEA WITH NDEC  
alphas from (n,n\*)a



MAT=4513 ACE FILE PRODUCED AT NEA WITH NDEC  
alphas from (n,2n)a

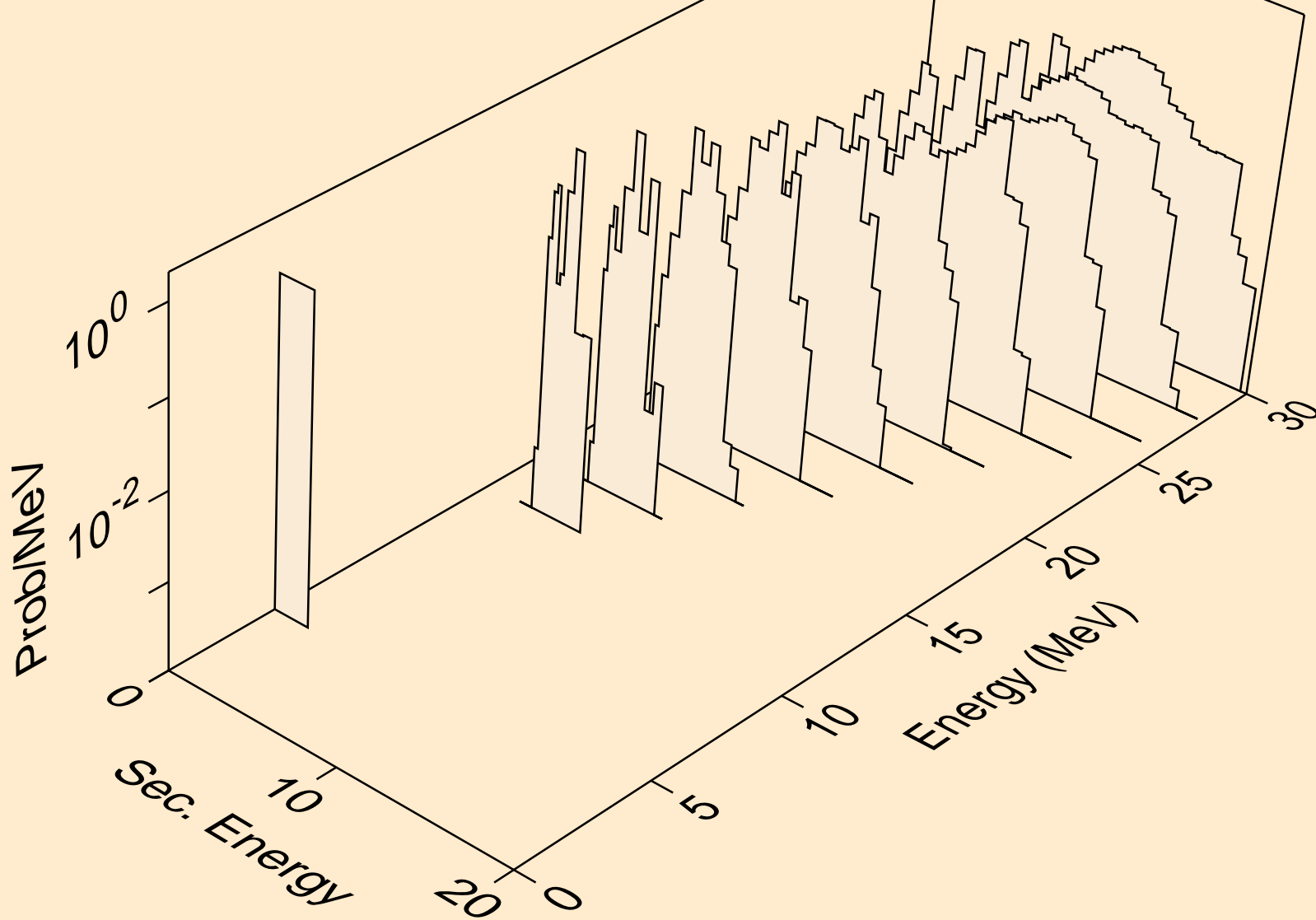


MAT=4513 ACE FILE PRODUCED AT NEA WITH NDEC  
alphas from (n,3n)a

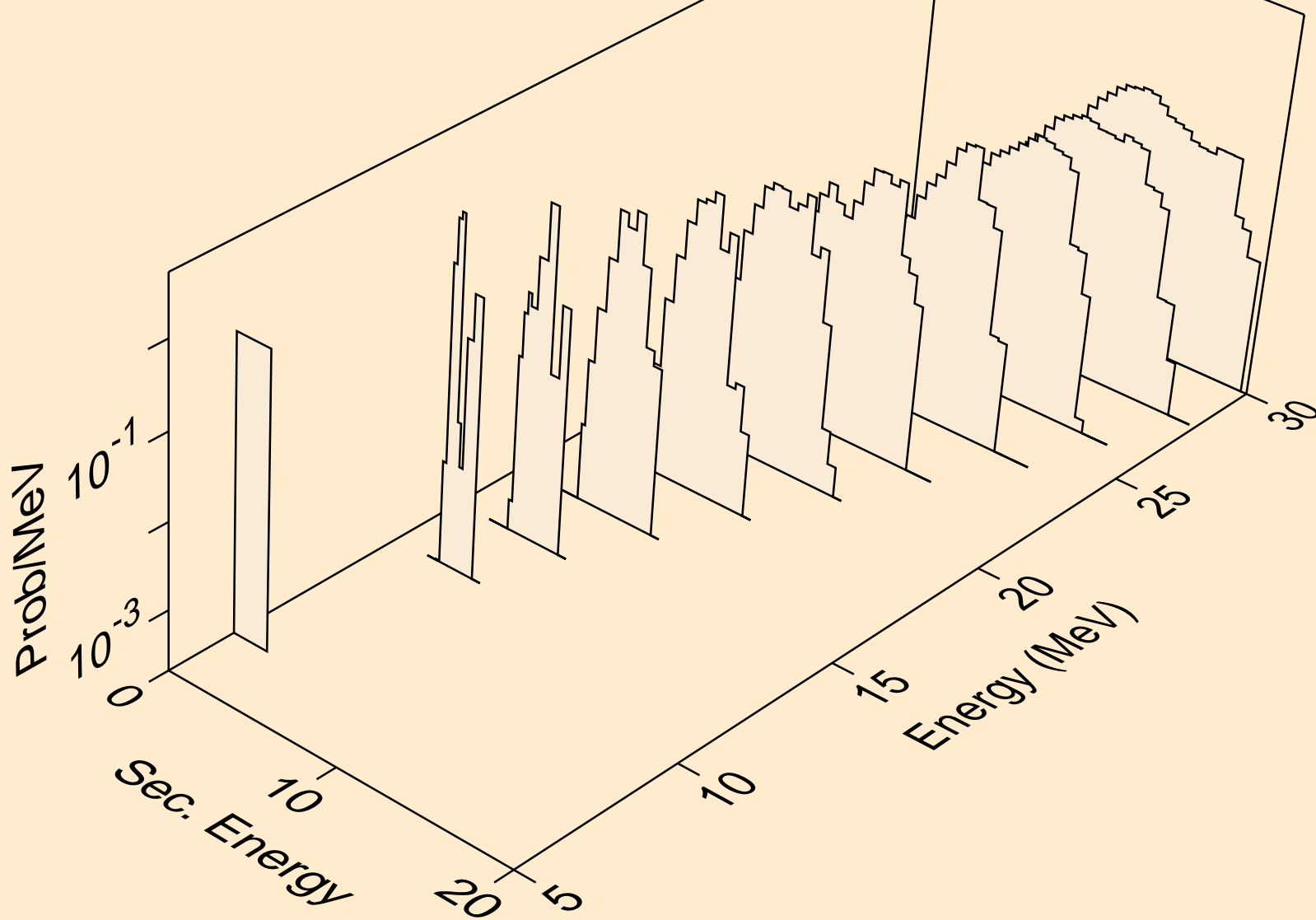




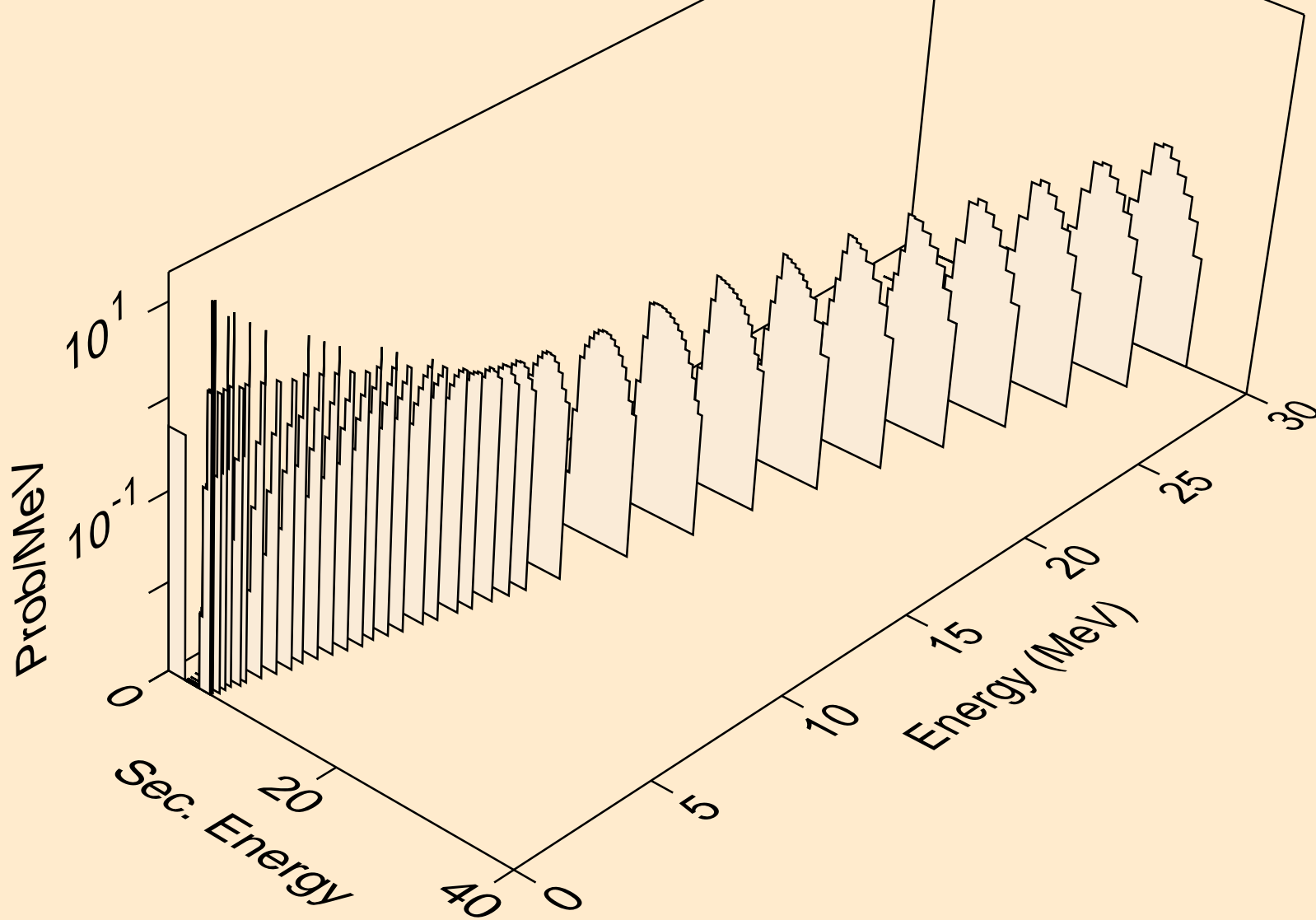
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alphas from (n,n\*)2a



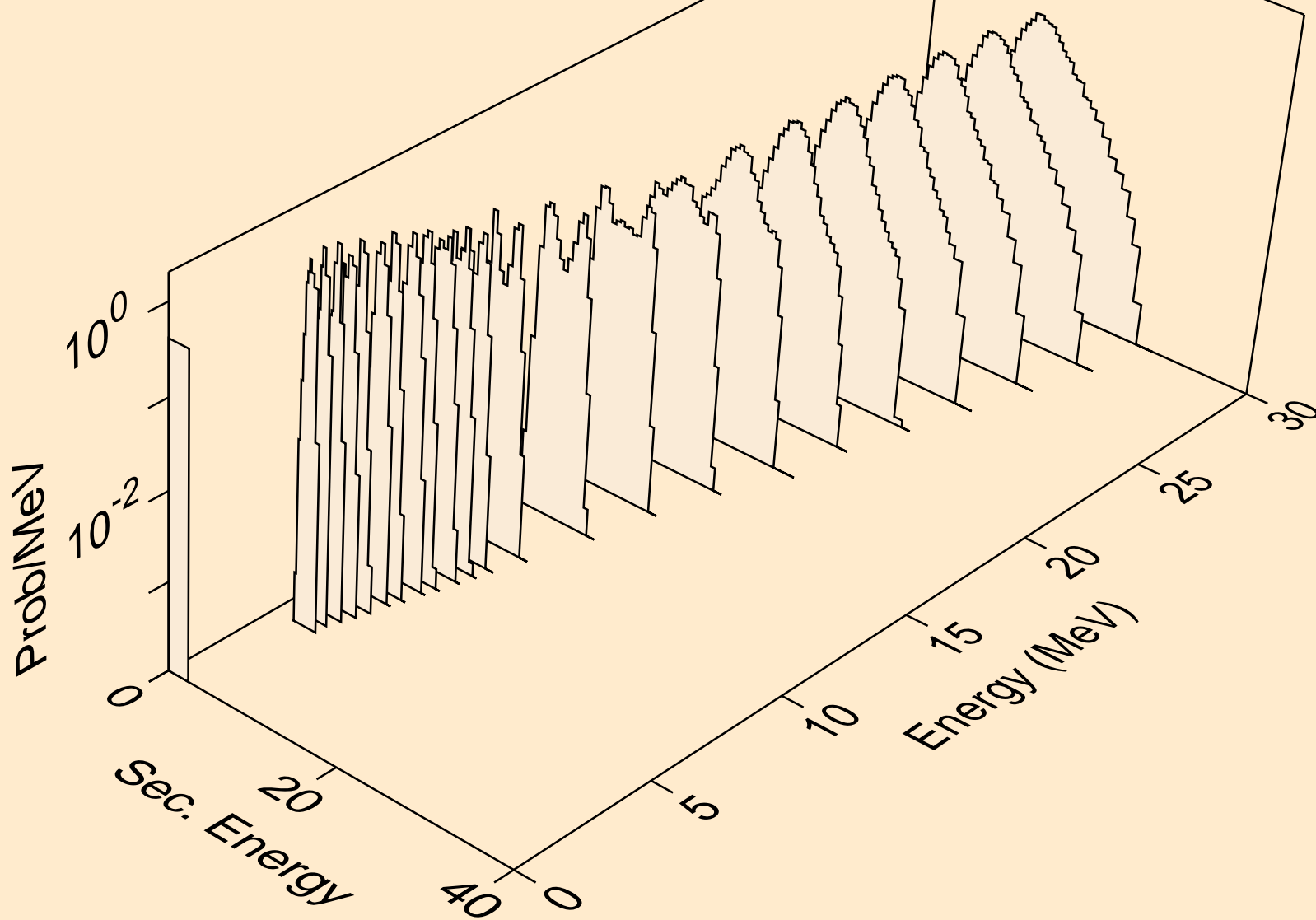
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alphas from (n,npa)



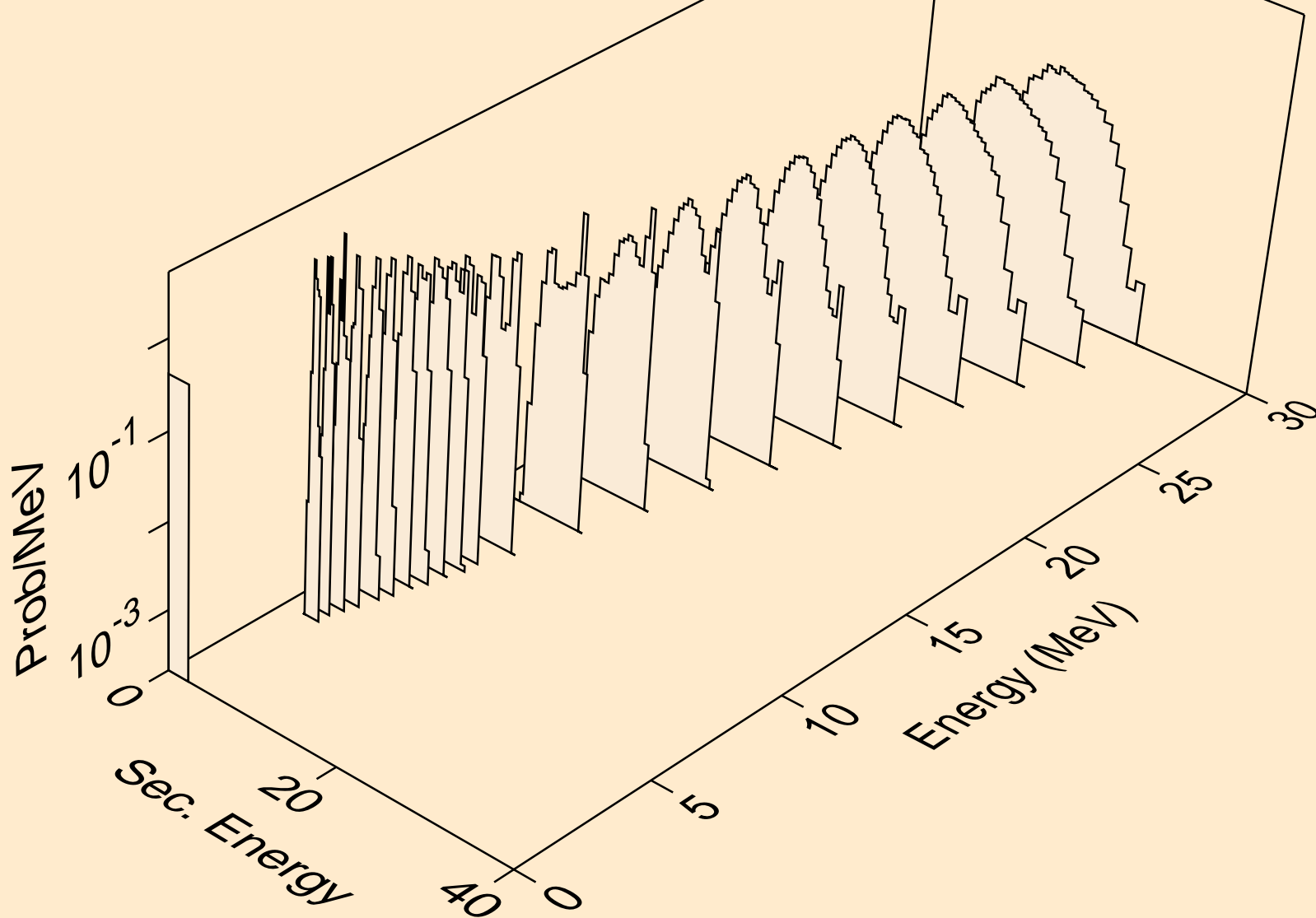
MAT=4513 ACE FILE PRODUCED AT NEA WITH NDEC  
alphas from (n,a)



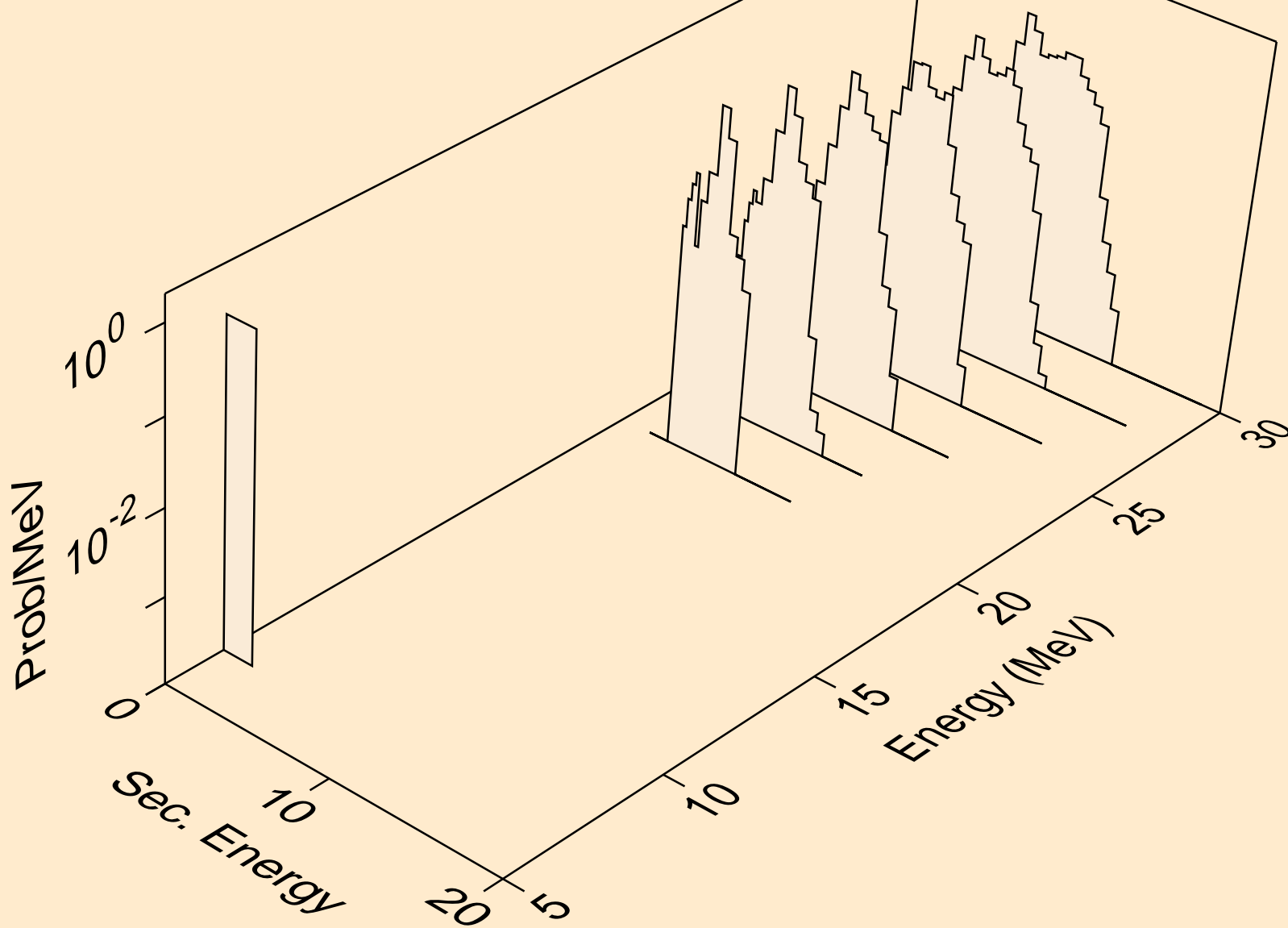
MAT=4513 ACE FILE PRODUCED AT NEA WITH NDEC  
alphas from (n,2a)



MAT=4513 ACE FILE PRODUCED AT NEA WITH NDEC  
alphas from (n,pa)



MAT=4513 ACE FILE PRODUCED AT NEA WITH NDEC  
alphas from (n,d2a)



MAT=4513 ACE FILE PRODUCED AT NEA WITH NDEC  
alphas from (n,da)

