Reason for the Trends seen as per charge in grid Fourier numbers -

The D-N boundary candition violates the strong diagonal daminance in the last now and hence its invertibility is lessed than D-D.

A If we increase Fo, the matrix is still strangly diagonally daminant but the condition number increases and the invertibility decreases.

For any naw of A, after narmalization,

the \$\implies aij| becomes (1+2Fo)

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So as the above expression increases as we increase Fo, 11A11 increases, increasing the C·N. Likewise 11A-11 has the same trunds.