

Hyponormal and Strongly Hyponormal Matrices in Inner Product Spaces

M.-A. Henn

joint work with C. Mehl and C. Trunk

The notions of hyponormal and strongly hyponormal matrices in inner product spaces with a possibly degenerate inner product are introduced. We study their properties and we give a characterization of such matrices. Moreover, we describe the connection to Moore-Penrose normal matrices and normal matrices.