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**Richard A Brualdi\*** (brualdi@math.wisc.edu), Mathematics Department, 480 Lincoln Drive, University of Wisconsin, Madison, WI 53706. *(0,1)-Matrices and Nonnegative Eigenvalues*. Preliminary report.

We discuss some properties of  $(0,1)$ -matrices all of whose eigenvalues are nonnegative. Nonnegativity of eigenvalues is guaranteed if the matrix is totally nonnegative (determinants of all square submatrices are nonnegative). But a  $(0,1)$ -matrix all of whose eigenvalues are nonnegative need not be totally nonnegative. (This talk is based on some joint work with S. Kirkland.) (Received January 22, 2010)