

1011-15-161

**Amy Wangsness\*** ([awangsne@fsc.edu](mailto:awangsne@fsc.edu)), Fitchburg State College, Mathematics Department, 160 Pearl St., Fitchburg, MA 01420. *Some results on the matrix completion problem for various classes of  $P_{0,1}$ -matrices.*

Let  $\Pi$  be in the set of classes  $\{P_{0,1}, \text{weaklysignsymmetric}P_{0,1}, \text{andsignsymmetric}P_{0,1}\}$  of matrices. The question discussed will be the following: Given a digraph, does every partial  $\Pi$ -matrix which specifies the digraph have completion to a  $\Pi$ -matrix? Results will be discussed for digraphs up through order 4. (Received August 24, 2005)