MICHAEL CAVERS, University of Toronto Scarborough

Digraphs with few distinct eigenvalues

Graphs with few adjacency eigenvalues have been well studied. This presentation concerns the analogous problem for digraphs (with loops permitted) whose adjacency matrices have few distinct eigenvalues. A spectral characterization is given for the strongly connected digraphs that have exactly two distinct eigenvalues and further structural results are presented.

This is joint work with Bobby Miraftab.