
FRANK HALL, Georgia State University, Atlanta, GA 30303, USA

Some Eigenvalue Interlacing Results on Matrices Associated with Graphs

Given a graph G , the adjacency matrix, the standard Laplacian, and the normalized Laplacian have studied extensively. In this talk, eigenvalue interlacing inequalities are given for each of these three matrices under the two operations of removing an edge or a vertex from G . Examples are provided to show that the inequalities are the best possible of their type.