

University of Delaware
Discrete Mathematics Seminar

Edge-disjoint spanning trees and eigenvalues of regular graphs

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Ewing Hall 336 3.45-4.45pm

We give a sufficient condition for a regular graph to contain 2 edge disjoint spanning trees. The condition depends on the second largest eigenvalue of the adjacency matrix. We give a proof and include an example to show it is best possible. A proof for 3 edge disjoint spanning trees will be briefly outlined, and we conjecture the condition for k edge disjoint spanning trees.