

GRATKO Seminar

Time: 5:30 PM, Tuesday, October 15, 2013

Location: 130 Solon Campus Center, UMD

Speaker: Xiaofeng Gu (University of Wisconsin-Superior)

Title: Edge-disjoint spanning trees and eigenvalues of graphs

Abstract:

The number of edge-disjoint spanning trees in a graph is a very important parameter in network reliability and network optimization. It is very interesting to ask when a graph will have k edge-disjoint spanning trees for a positive integer k . Based on a fundamental theorem of Nash-Williams and Tutte, we investigate eigenvalue conditions for a simple graph with k edge-disjoint spanning trees.