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Combinatorics Seminar

Speaker: Dr. Ryan Tifenbach,

Affiliation: Department of Mathematics and Statistics, Memorial University

Date: Wednesday, March 28, 2012

Time: 2:00 p.m.

Room: HH-3013

Title: ***Spectral Graph Theory II***

Abstract:

We define the Laplacian matrix of a weighted undirected graph and examine a few of its properties. This matrix is widely studied as its algebraic properties are intimately related to the combinatoric properties of the graph. In particular, we will discuss (and show an example of) how the calculation of one of the eigenvalues of the Laplacian matrix can help to estimate how “well-connected” is the associated graph.