Department of Mathematics and Statistics Colloquium
Tuesday   January 29
AMB 164   4:00 pm

Modulus Metrics on Networks

Nethali Fernando

Department of Mathematics and Statistics

Northern Arizona University

Abstract

The concept of p-modulus gives a way to measure the richness of a family of objects on a graph. We will investigate the families of connecting walks between two xed nodes and show how to use p-modulus to form a parametrized family of graph metrics that generalize several well-known and widely-used metrics. We will also investigate a characteristic of metrics called the "anti snowaking exponent" and present explicit computations of the new metrics on some selected graphs.

Refreshments at 3:45