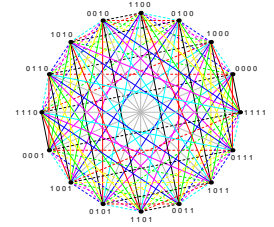


**Jointly Organized by  
School of Computer Science and  
Department of Mathematics and Statistics**



October 15 (Tuesday), 16:45 – 17:45, Burnside Hall 1205

**Extremal metrics on graphs**

by

**Prof. Dmitry Jakobson  
Department of Mathematics and Statistics  
McGill University**

Abstract. We assign weights to the edges of a graph, and study extremal weights for various functionals, such as girth, diameter, determinant of Laplacian (or complexity), the first nonzero eigenvalue of the Laplacian. We also discuss some related extremal problems in geometry and graph theory.

Organizers: D. Avis(CS), W. Brown(Math), D. Bryant(CS/Math), L. Devroye(CS), K. Fukuda(CS), B. Reed(CS), V. Rosta(Math), G. Toussaint(CS) and S. Whitesides(CS).

Information: <http://www.cs.mcgill.ca/~fukuda/semi/discmath.html>