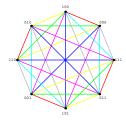
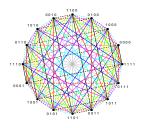
## **McGill** Discrete Mathematics and Optimization Seminar





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



September 9 (Monday), 17:00 – 18:00, Burnside Hall 1205

**Data Mining in Solving Hard Mathematical Problems** 

by

## Prof. Alexei Miasnikov Department of Mathematics and Statistics McGill University

Abstract. I am going to discuss how modern data mining can help solving hard mathematical problems. My sample problems will be Andrews-Curtis Conjecture and Complexity of Whitehead method. These problems originally came from algebraic topology, but I will take on purely combinatorial viewpoint, assuming zero algebraic topology knowledge. The talk will be elementary, easily accessible to mathematicians and computer scientists.

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