



Seminar Series

2008—2009

**FACULTY OF
COMPUTER
SCIENCE**

Wednesday October
8th, 2008

3:35pm

Information
Technology Center
Room—C-317

www.cs.unb.ca

A computational approach to the Hirsch Conjecture

By

David Bremner

The Hirsch conjecture is a 50 year old conjecture related to the worst case performance of the simplex method of Linear Programming. In this talk I will discuss recent work with Lars Schewe, and not so recent work with Fred Holt and Victor Klee, on a computational attack on this conjecture. The main tools are a (partial) classification of the simplicial complexes whose dual graph is a path, oriented matroids, and fast boolean satisfiability solvers.

Joint work with Lars Schewe, TU Darmstadt

1

STUDENTS ARE ENCOURAGED TO ATTEND