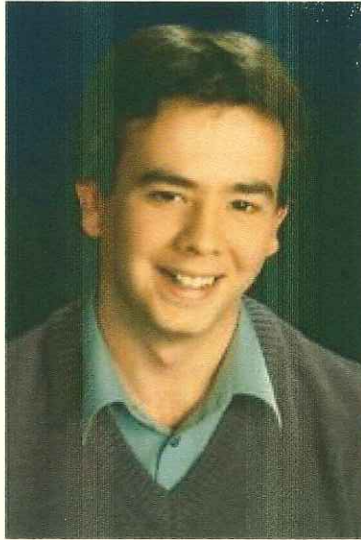


MATHEMATICS & COMPUTER SCIENCE
Number Theory and Combinatorics Seminar



Dr. Timothy Trudgian
University of Lethbridge

Wednesday, November 9, 2011

Room: E575

Time: 12:00 - 12:50pm

Title: Dirichlet's theorem and an application to the zeta-function

Abstract: Suppose one has managed to bound a certain complex-valued function, $f(z)$ say, by another function $g(z)$. How could one show that the bound $g(z)$ is 'as good as it gets'? The study of so-called Omega-theorems is designed to answer this question. Dirichlet's theorem (which is not much more complicated than the statement that if $k+1$ students need to sit on k chairs then at least two of them must sit in the same chair) provides a good insight into Omega-theorems: in particular one may use Dirichlet's theorem to show that some bounds for the growth of the zeta-function are the best possible.

Visit the seminar page at <http://www.cs.uleth.ca/~nathanng/ntcoseminar.html>

EVERYONE WELCOME!