

# Lethbridge Number Theory and Combinatorics Seminar

Monday — April 4, 2016

Room: C630

Time: 12:00 to 12:50 p.m.

## Brandon Fuller

# CCA groups and graphs

*Abstract:* An automorphism of a Cayley graph that preserves its natural edge-colouring is called colour-preserving. We study groups  $G$  with the property that every automorphism on every connected Cayley graph on  $G$  is the composition of a left-translation and a group automorphism. We call this class of groups CCA groups and we look at classifying which groups are not CCA. More precisely, we look at abelian groups, groups of odd order and direct or semidirect products of groups.

**EVERYONE IS WELCOME!**

Visit the seminar web page at

<http://www.cs.uleth.ca/~nathanng/ntcoseminar/>



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