

Lethbridge Number Theory and Combinatorics Seminar

Monday — February 8, 2016

Room: C630

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

Alexey Popov

Operator Algebras with reduction properties

Abstract: An algebra is a vector space with a well-defined multiplication. An operator algebra is an algebra of operators acting on a Hilbert space, typically assumed closed in the norm topology. An easy example of an operator algebra is the algebra $M_n(\mathbb{C})$ of all the complex $n \times n$ matrices. In this colloquium-style talk, we will discuss operator algebras A with the following property: every A -invariant subspace is complemented by another A -invariant subspace. This property is called the Reduction property and is a kind of semisimplicity. We will discuss the connections of this property to some classical problems, such as Kadison Similarity Problem and the structure of amenable operator algebras.

EVERYONE IS WELCOME!

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

