

Graduate Seminar

First Speaker:

**Eyad AlFarajat
Memorial University**

Thursday, March 20

1:00 p.m., HH-3017

On Homology Groups of Fuzzy Topological Spaces

Abstract:

Fuzzy set theory and fuzzy topology are approached as generalizations of ordinary set theory and ordinary topology. We consider fuzzy subsets as functions from a nonempty set to a membership lattice. In 1965, Zadeh introduced the fundamental concept of a fuzzy set. In 1968, Chang adapted the notion of a fuzzy set to what he called fuzzy topology. In this presentation I will give a brief introduction to homology groups of fuzzy topological spaces.

Second Speaker:

**Fatimah Alruhaymi
Memorial University**

Indecomposable Skolem and Rosa Sequences

Abstract:

We introduce indecomposable (hooked) Skolem sequences and describe their existence for all admissible orders. Furthermore, we introduce a new construction for two-fold triple systems from two-fold Skolem sequences and use this to motivate the concept of a two-fold Rosa sequence.