



McMaster University



University of Toronto



University of Waterloo

## THE FIELDS INSTITUTE FOR RESEARCH IN MATHEMATICAL SCIENCES

### COLLOQUIUM IN DYNAMICAL SYSTEMS

#### SPEAKER:

**IAN PUTNAM**  
Department of Mathematics and Statistics  
University of Victoria

#### On the Topic:

#### "Invariants for Dynamical Systems via $C^*$ -algebras"

I will discuss how one can construct  $C^*$ -algebras from dynamical systems and then how various ideas from  $C^*$ -algebra theory can be used to obtain invariants for the dynamics. The systems I will consider are discrete topological systems. I will discuss minimal homeomorphisms of zero-dimensional spaces and also some "irreducible hyperbolic" systems - e.g. Anosov diffeomorphisms and basic sets for Axiom A systems. I will not assume any familiarity with  $C^*$ -algebras.

**Thursday, May 6, 1993**

**3:30 pm, room 3018**

**at**

**The Fields Institute**