

**IMIA Operator Algebra Seminar**  
University of Wollongong

Title: Topological Graph  $C^*$ -algebras: Projective Limits and Direct Limit.

Speaker: Mitch Hawkins (University of Wollongong)

Time and Dates: 3:30pm Thursday, 6 June and 20 June 2013

Location: Room 39C.tearoom

Abstract: In this pair of talks I will introduce the concept of projective limits for topological graphs, and examine their relationship with direct limits of topological graph algebras.

In the first talk we will cover the necessary background material for assigning  $C^*$ -algebras to topological graphs, via Hilbert modules. We will then talk about maps between topological graphs and projective limits for topological graphs.

The second talk will pick up where the first one left off, and will cover direct sequences of topological graph algebras, and their direct limits. We will finish with a construction of the noncommutative solenoid.