

**IMIA Operator Algebra Seminar**  
University of Wollongong

Title: Geometric Classification of Graph Algebras

Speaker: Adam Sørensen (University of Wollongong)

Time and Dates: 3:30pm Thursday, 11 and 18 April 2013

Location: Room 39C.tearoom

Abstract: Given a (directed, countable) graph  $G$  we can associate to it a  $C^*$ -algebra,  $C^*(G)$ . Inspired by Franks' classification of irreducible shifts of finite type we will introduce a short list of moves on graphs that do not change the Morita equivalence class of the associated algebras. We will discuss situations where we can get theorems of the form  $C^*(G)$  is Morita equivalent to  $C^*(E)$  if and only if  $G$  can be transformed into  $E$  using our allowed moves.