

**IMIA Operator Algebra Seminar**  
University of Wollongong

Title: Simplicity of Cuntz-Pimsner rings

Speaker: Toke Meier Carlsen (NTNU, Norway)

Time and Dates: 3:30pm, Thursday, 1 December 2011

Location: Room 15.113 (Access Grid Room)

Abstract: Eduard Ortega and I have introduced an algebraic analogue of (relative) Cuntz-Pimsner  $C^*$ -algebras and shown that for instance Leavitt path algebras and crossed products of a ring by a single automorphism can be constructed as relative Cuntz-Pimsner rings. Recently, Eduard and I have together with Enrique Pardo characterized when a relative Cuntz-Pimsner ring is simple. I will in this talk give an overview of our work and discuss similarities and differences between the algebraic case and the  $C^*$ -algebraic case.