SMAS Operator Algebra and Noncommutative Geometry Seminar
University of Wollongong

Title: Generalised Bunce-Deddens algebras

Speaker: James Rout (University of Wollongong)

Time and Date: 3:30pm Thursday, 9 January 2013

Location: Room 39C.meeting room

Abstract: Bunce-Deddens algebras are a class of limit C*-algebras generated by weighted shift operators. Kribs and Solel generalised this class by a class of limit C*-algebras generated by directed graphs. In this talk we will explain the graphs constructed by Kribs and Solel and the Toeplitz algebras generated by these graphs. This talk is for the first year review of my PhD under Aidan and Dave.

Title: KMS states on generalised Bunce-Deddens algebras

Speaker: James Rout (University of Wollongong)

Time and Date: 3:30pm Thursday, 16 January 2013

Location: Room 39C.meeting room

Abstract: This talk looks at the KMS states on the generalised Bunce-Deddens algebras that I introduced last week. Recently an Huef, Laca, Raeburn and Sims studied the KMS states for the gauge action on the Toeplitz algebras of finite dircted graphs. The advantage of our definition of the generalised Bunce-Deddens algebras is that it involves Toeplitz-Cuntz-Krieger families. This allows us to build on the results of an Huef, et al. In this talk we aim to show how to construct KMS states and explain how they can be characterised by measures on the underlying projective limit structure. This work is part of my PhD under the supervision of Aidan Sims and Dave Robertson.