

**IMIA Operator Algebra and Noncommutative Geometry Seminar**  
University of Wollongong

Title: Obstructions to lifting cocycles on groupoids and the associated  $C^*$ -algebra

Speaker: Alex Kumjian (University of Nevada at Reno)

Time and Date: 3:30pm Thursday, 14 August 2014

Location: Room 39C.meeting room

Abstract: It is well known that a cocycle on a groupoid taking values in an abelian group gives rise to an automorphic action of the dual group on the associated  $C^*$ -algebra. We explain how the obstruction to lifting the cocycle may be viewed as an extension of the groupoid and analyze its  $C^*$ -algebra. This is work in progress with Marius Ionescu.