

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

Title:  $(M + 1)$ -step shift spaces that are not conjugate to  $M$ -step shift spaces

Speaker: Daniel Goncalves (Universidade Federal de Santa Catarina, Brazil)

Time and Date: 3:30pm Thursday, 8 January 2015

Location: Room 39C.meeting room

Abstract: In this talk we will present a brief introduction to one sided shifts over infinite alphabets, as recently proposed by Ott, Tomforde and Willis. In this approach the conjugacy classes of shifts of finite type, edge shifts, and  $M$ -step shifts are distinct and the authors conjecture that for each nonnegative positive integer  $M$  there exist an  $(M + 1)$ -step shift space that is not conjugate to any  $M$ -step shift. The aim of this talk is to build a class of  $(M + 1)$ -step shifts that are not conjugate to any  $M$ -step shift and hence show that the above conjecture is correct.