SMAS Operator Algebra and Noncommutative Geometry Seminar
University of Wollongong

Title: Kasparov's proof of Bott periodicity

Speaker: Adam Rennie (University of Wollongong)

Time and Date: 3:30pm Thursday, 23 December 2014

Location: Room 39C.meeting room

Abstract: There are many proofs of Bott periodicity for K-theory, all with their own advantages. Kasparov's proof, being set in KK-theory, is at first sight quite difficult. I will explain the setting, the proof and some of the consequences. Bram and Simon are fellow culprits.

Title: Kasparov's proof of Poincaré duality for Euclidean space

Speaker: Adam Rennie (University of Wollongong)

Time and Date: 3:30pm Thursday, 30 December 2014

Location: Room 39C.meeting room

Abstract: I will describe Kasparov's formulation of Poincaré duality in KK-theory, or at least the most important cases of his general picture. After describing the consequences, I will present a proof of Poincaré duality for Euclidean spaces. Time permitting I will describe the extension to more general manifolds. Bram and Simon made me do it.