

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

Title: Index pairings for  $\mathbb{R}^n$  actions

Speaker: Andreas Andersson (University of Wollongong)

Time and Date: 3:30pm Thursday, 6 November 2014

Location: Room 39C.meeting room

Abstract: We discuss a noncommutative higher-dimensional generalization of the classical Gohberg-Krein theorem saying that the index of a Toeplitz operator acting on Hardy space is equal to minus the winding number of its symbol (a function on the circle). For this we use an explicit realization of Connes' Thom isomorphism in terms of a Dirac operator.