

IMIA Operator Algebra Seminar
University of Wollongong

Title: States, projections and C^* -algebras of real rank zero

Speaker: Tristan Bice (Kobe University)

Time and Dates: 3:30pm Thursday, 3 May 2012

Location: Room 8.G25

Abstract: We outline some recent results about some very familiar objects in C^* -algebra theory, namely states and projections. Firstly, we show how to use the continuous functional calculus to manipulate projections and apply this to sharpen some old results of Akemann and Kadison in the real rank zero case. Next we will show how states correspond to filter-like collections of projections and use this to prove some results about states on the Calkin algebra, in particular showing that some very simple statements about them turn out to be independent of ZFC.