

IMIA Operator Algebra Seminar
University of Wollongong

Title: Phillips-Raeburn Spectral Triples

Speaker: Denis Potapov (University of New South Wales)

Time and Dates: 3:30pm, Thursday August 25, 2011

Location: Room 1.G03

Abstract: The Phillips-Raeburn spectral triple associated with a finite von Neumann algebra M equipped with a weakly continuous action α is the triple (A, H, D) , where A is the algebra of all infinitely differentiable elements with respect to the action α represented in the crossed-product von Neumann algebra $M \rtimes R$ acting on a Hilbert space H ; and D is the differentiation operator on H . The main result shows that the spectral triple (A, H, D) is QC -smooth.