

IMIA Operator Algebra Seminar
University of Wollongong

Title: The Gysin Sequence for Quantum Lens Spaces

Speaker: Simon Brian (Università degli Studi di Trieste)

Time and Date: 3:30pm Thursday, 23 October 2013

Location: Room 39C.meeting room

Abstract: In classical geometry, the Gysin sequence is an exact sequence which relates the K-theory of $2n + 1$ -dimensional lens spaces to the K-theory of the complex projective space CP^n . I will motivate and then sketch the construction of an analogous sequence in K-theory for quantum lens spaces and projective spaces, which allows us to compute the K-theory in the quantum setting and to find explicit algebraic representatives of its generators. Based on joint work with Francesca Arici and Giovanni Landi.