

**IMIA Operator Algebra Seminar**  
University of Wollongong

Title:  $k$ -graphs and non-commutative geometry

Speaker: Thomas O'Brien (University of Wollongong)

Time and Dates: 3:30pm Thursday, 9 February 2012

Location: Room 15.113 (Access Grid Room)

Abstract: We present a family of examples of  $k$ -graphs for  $k \geq 1$  that are related to higher order quantum spheres of the type studied by Baum, Hajac, Matthes and Szymanski. We use graph techniques to calculate homologies, cohomologies, and K-theory for these families.