

IMIA Operator Algebra Seminar
University of Wollongong

Title : Rieffel's deformation quantization and non-commutative tori

Speaker: Sooran Kang

Abstract: For a Poisson manifold M , Rieffel's strict deformation quantization is a dense $*$ -algebra A of $C^\infty(M)$ that preserves the Poisson bracket, with a product $*_{\hbar}$, an involution $^{*\hbar}$, and a C^* -norm $\|\cdot\|_{\hbar}$ for $\hbar \in I$, where I is a closed subset of the real line containing 0 such that the completions of A for the various C^* -norms form a continuous field of C^* -algebras over I and pointwise product is deformed to $*_{\hbar}$ in the direction of the Poisson bracket. In this talk, we overview Rieffel's strict deformation quantization and introduce non-commutative tori as an example.

Time and Date: 3:30pm, Tuesday March 15, 2011

Location: Room 22.G23