

DEPARTMENT OF MATHEMATICS AND COMPUTER SCIENCE
UNIVERSITY OF SOUTHERN DENMARK, ODENSE

Mathematics seminar

Alex Kumjian
University of Nevada

Obstructions to lifting cocycles on groupoids and the associated C^* -algebras

Tuesday 22 November 2016, 14:15-15:15
IMADA seminar room

Abstract

Let G be an amenable locally compact groupoid and let A be a closed subgroup of a locally compact abelian group B . Given a B/A -valued 1-cocycle φ on G , there is a central extension Σ_φ of G by A which is trivial iff φ lifts to a B -valued cocycle. We prove that $C^*(\Sigma_\varphi)$ is isomorphic to the induced algebra of the natural action of $(B/A)^\wedge$ on $C^*(G)$. If there is time we will also consider a simple class of examples arising from Cech 1-cocycles. This talk is based on a joint work with Marius Ionescu.

Host: David Kyed