

# WORKING GROUP IN NONCOMMUTATIVE HARMONIC ANALYSIS

Martes, 10 de febrero de 2015

11:00-13:00 h., [Aula Gris 1](#) (ICMat, Campus de Cantoblanco)

**Fernando Lledó Macau**

ICMAT - Universidad Carlos III de Madrid

On the class of Følner  $C^*$ -algebras (I)

## Resumen:

In the first part of the talk I will introduce and analyse the class of Følner  $C^*$ -algebras which are defined in terms of sequences/nets of unital completely positive maps into matrix algebras which satisfy asymptotic multiplicativity. I will motivate this class of algebras through previous work by Voiculescu and Connes.

Joint work with P. Ara, UAB.

In the second talk I will study the relation between uniform Roe algebras and the class of Følner  $C^*$ -algebras. Roe algebras appear in problems related to coarse geometry and are based on a discrete metric space  $(X, d)$  with bounded geometry.

Joint work with P. Ara, K. Li (U. Copenhagen), J. Wu (U. Münster).