



Mini-curso a cargo de Pere Ara

Universitat Autònoma de Barcelona

Graph C^ -algebras and Symbolic Dynamics*

Lecture 1: *An introduction to graph C^* -algebras.*

Lecture 2: *Symbolic dynamics: basic denitions and results.*

Lecture 3: *Symbolic dynamics and the classication of graph C^* -algebras.*

Abstract. This series of lectures will consist in an overview of the interrelations between the theory of symbolic dynamics and the classification of graph C^* -algebras.

In the first lecture, graph C^* -algebras will be introduced, with special emphasis in the case of finite graphs, which is the case that will appear in the applications to symbolic dynamics.

In the second lecture, shifts and finite shifts will be introduced, along with some of the most useful equivalence relations for finite shifts, namely conjugacy, shift equivalence, strong shift equivalence and flow equivalence. For some of these equivalence relations, a computable complete invariant is known. These invariants will be described including several examples.

In the third lecture, the classification of finite shifts will be related with the classification question for graph C^* -algebras and for Leavitt path algebra.

Fecha y hora: 12 de abril de 2013, 10:30, 12:00 y 15:00.

Lugar: **IMAC** (Seminario TI1329SD), ESTCE. Universitat Jaume I de Castelló

