

C^* -algebras attached to group actions

C^* -algebras are norm-closed self-adjoint subalgebras of bounded operators on Hilbert space. In mathematics, the term *noncommutative topology* has its origin in the Gelfand-Naimark theorem, which says that every commutative C^* -algebra is isomorphic to continuous functions vanishing at infinity, on a locally compact Hausdorff space. In this talk I will focus on the structure of C^* -algebras attached to topological dynamical systems, in connection with the classification program for C^* -algebras.