ANDREW DEAN, Lakehead University, 955 Oliver Road, Thunder Bay, Ontario, P7B 5E1 Classification of C^* -dynamical systems

We will discuss the problem of classifying, up to equivariant isomorphism, several kinds of C^* -dynamical system using functorial invariants. In particular, we shall discuss a class of actions of the reals on approximate circle algebras that do not arise as inductive limits of inner actions on homogeneous algebras.