
NICHOLAS MANOR, University of Waterloo

Exactness vs C^ -exactness for certain non-discrete groups*

It is known that exactness for a discrete group G is equivalent to C^* -exactness, i.e., the exactness of the reduced C^* -algebra $C_r^*(G)$. It is a major open problem to determine whether this equivalence holds for all locally compact groups, but the problem has recently been reduced by Cave and Zacharias to the case of totally disconnected (td) unimodular groups. We will discuss ways to extend the equivalence of exactness and C^* -exactness to classes of non-discrete groups. These include those groups whose reduced C^* -algebra has a trace. Using this result we will study examples of td unimodular groups, including those td groups admitting an invariant neighbourhood of the identity, and a family of td unimodular groups introduced by Yuhei Suzuki in the context of C^* -simplicity.