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Odometers

Classical odometers are well-known dynamical systems on totally disconnected spaces. They can be generalized in the following way: begin with a countable group and a decreasing sequence of subgroups whose intersection is the identity and let the group act on the inverse limit of the quotient spaces in the obvious way. Here, we consider the case that the group is a finitely generated, free abelian group. We show that cohomological invariants completely determine the system up to either isomorphism or orbit equivalence. This is joint work with T. Giordano and C. Skau.