Strong orbit equivalence and eigenvalues

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Abstract

The additive group E(X,T) of continuous eigenvalues of a minimal Cantor systems (X,T) is not invariant under strong orbit equivalence. Nevertheless, there are some restrictions determined by the dimension group associated to (X,T). In this work we show that, if I(X,T) is the intersection of all the images of the dimension group by its traces, then the quotient group I(X,T)/E(X,T) is torsion free whenever the associated dimension group has no non trivial infinitesimal. There are some open question about realization. This is a joint work with Fabien Durand and Samuel Petite. Another work in the same direction was made by Giordano, Handelman and Hosseini.

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