

TOPOLOGICAL ORBIT EQUIVALENCE, DIMENSION GROUPS AND EIGENVALUES.

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Two topological dynamical systems are orbit equivalent, if there exists a homeomorphism between their phase spaces preserving their orbits. A very useful invariant for orbit equivalence is the (reduced) dimension group associated to a minimal Cantor system. In this talk we will present some results involving dimension groups, realization of orbit equivalence classes and realization of groups of eigenvalues. These results are included in different joint works with Fabien Durand and Samuel Petite (recently, T. Giordano, D. Handelman and M. Hosseini have improved some of the results presented here).

REFERENCES

- [1] Cortez, María Isabel; Durand, Fabien; Petite Samuel *Eigenvalues and strong orbit equivalence*. Accepted for publication in Ergodic Theory Dynam. Systems.
- [2] Cortez, María Isabel; Petite, Samuel *Invariant measures and orbit equivalence for generalized Toeplitz subshifts*. Groups Geom. Dyn. 8 (2014), no. 4, 1007–1045.