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Orbit equivalence for Cantor minimal $\mathbb{Z}^2$ systems

The main result is that every free, minimal action of the group $\mathbb{Z}^2$ on a Cantor set is orbit equivalent to an action of $\mathbb{Z}$. A complete invariant is given, which, for uniquely ergodic actions, amounts to the values of the measure on the clopen subsets. This is joint work with Thierry Giordano, Hiroki Matui and Christian Skau.