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21402. *A rigidity theorem for generalized odometers.*

We study equicontinuous actions of finitely-generated groups on Cantor sets. These actions are shown to be profinite (conjugate to generalized odometers). We prove that two profinite actions are continuously orbit equivalent (have isomorphic topological full groups) if and only if they are virtually piecewise conjugate, i.e., have finite index subgroups with the same index whose actions are locally conjugate. This result extends M. Boyle's theorem on flip-conjugacy for \mathbb{Z} -actions.

We give an example of virtually piecewise conjugate profinite \mathbb{Z}^2 -actions that are not topologically conjugate. We also show that the full group associated with a profinite action is amenable if and only if the acting group is amenable. This, in particular, implies that the topological full group of a product of \mathbb{Z} -odometers is amenable. (Received July 28, 2015)