TOPOLOGICAL RANK OF CANTOR DYNAMICAL SYSTEMS

Maryam Hosseini [1]

[1] IPM

A Cantor minimal system is of finite topological rank if it has a Bratteli-Vershik representation whose number of vertices per level is uniformly bounded. A well-known theorem of T. Downarowicz and A. Maass says that a finite rank minimal system on Cantor set is either subshift or an odometer. We prove that this dichotomy is true for the topological factors of Essentially minimal Cantor dynamical systems as well. This gives an affirmative answer to a question posed by Donoso, Durand, Maass, and Petite in full generality.
This is a joint work with NASSER GOLESTANI.