Aleksander Ivanov
Institute of Mathematics, University of Wrocław
e-mail: ivanov@math.uni.wroc.pl

Countably categorical structures with metrizable universal minimal $Aut(M)$-flow

Let M be a relational structure which is a Fraïssé limit of a Fraïssé class $\mathcal{K}$. By a theorem of Kechris, Pestov and Todorcevic, the group $G = Aut(M)$ is extremely amenable if and only if the class $\mathcal{K}$ has the Ramsey property and consists of rigid elements.

In April 2014 A.Zucker proved that $G = Aut(M)$ has metrizable universal minimal flow if and only if each $A \in \mathcal{K}$ has finite Ramsey degree. It is an open question if the universal minimal G-flow is metrizable when M is a countably categorical structure.

We confirm this statement in the case of ω-stable ω-categorical (in particular totally categorical) structures. We also connect this material with *nice enumerations* of G.Ahlbrandt and M.Ziegler.