

Invariant random subgroups for Cantor group actions

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An invariant random subgroup (IRS) is a probability measure on the space $\text{Sub}(G)$ of subgroups in a group G , which is invariant under conjugation. Given a measure-preserving group action on a Cantor set X , one can consider the map from X to $\text{Sub}(G)$ which assigns to each point its stabilizer subgroup, and study the IRS induced by this map. It was shown in the works by Vorobets, and by Benli, Grigorchuk and Nagnibeda that if G is weakly branch, then the corresponding IRS is continuous and ergodic. We investigate the IRS induced via this map for a significantly larger class of equicontinuous non locally quasi-analytic group actions.

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