

## Abstract

An Invariant Random Subgroup (IRS) is a subgroup-valued random variable that is invariant to conjugation. IRSs are probabilistic generalizations of normal subgroups, and share many of their properties. IRSs arise naturally as the stabilizers of measure preserving actions.

In this talk we will show that all irreducible IRSs of product groups, and of higher rank Lie groups, are co-amenable in some normal subgroup. This implies generalizations and strengthenings of similar theorems by Stuck-Zimmer and Bader-Shalom.

Joint work with Yair Hartman