Seminarium geometrów

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Minimal models for actions of amenable groups

Abstract: The Jewett-Krieger theorem states that any ergodic and invertible measure-preserving map is isomorphic to a uniquely ergodic (i.e., admitting only one invariant measure) and minimal homeomorphism. In 2006 Downarowicz generalized this result to the case of non-uniquely ergodic continuous actions of the group of integers (or even a semigroup of non-negative integers). In 2008 Frej and Kwaśnicka considered the case of continuous $\mathbb{Z}^d$–actions. I will present the following theorem: on a metrizable, compact, zero-dimensional space every free action of an amenable group G is measurably isomorphic to a minimal G–action with the same, i.e., affinely homeomorphic, simplex of measures. Time permitting, I will also address the problem of constructing minimal G–actions having faces of some simplex of invariant measures as their simplices of invariant measures. These are the results of a joint work with Dawid Huczek.