

Minimal models for actions of amenable groups

Bartosz Frej

Institute of Mathematics and Computer Science, Wrocław University of Technology, Poland

Bartosz.Frej@pwr.edu.pl

The talk is based on the joint work with Dawid Huczek.

Session: 16. Ergodic Theory and Dynamical Systems

We prove that on a metrizable, compact, zero-dimensional space every free action of an amenable group is measurably isomorphic to a minimal G -action with the same, i.e. affinely homeomorphic, simplex of measures. This is a continuation of earlier results by Tomasz Downarowicz [1] and Agata Kwaśnicka and the speaker [2]. The main motivation for this kind of study is the famous Jewett-Krieger theorem: to any ergodic and invertible measure-preserving map there exists an isomorphic strictly ergodic (i.e. uniquely ergodic and minimal) homeomorphism.

References

- [1] T.Downarowicz, *Minimal models for noninvertible and not uniquely ergodic systems*, Israel Journal Math. 156, 2006, 93–110.
- [2] B.Frej and A.Kwaśnicka *Minimal models for \mathbb{Z}^d -actions*, Colloq. Math. 110, 2008, No. 2, 461–476.