Polish Groups, Ample Generics and Metric Model Theory

Itaï Ben Yaacov
Université Claude Bernard – Lyon 1
Institut Camille Jordan

Abstract

In their 2007 article, A. Kechris and C. Rosendal use several rudimentary ideas of model theory (namely, the notion of a Fraïssé class) in order to study certain Polish groups – those which can be presented as automorphism groups of countable discrete structures.

I shall explain how ideas coming from metric model theory allow to make sense of ample generics for arbitrary Polish groups.

[Joint with A. Berenstein and J. Melleray]