Dynamics of non-archimedean Polish groups

Alexander S. Kechris   kechris@caltech.edu
Department of Mathematics, California Institute of Technology,
Pasadena, CA 91125, USA

Abstract

A Polish group is $non\text{-}archimedean$ if it admits a local basis at the identity consisting of open subgroups. Alternatively these groups can be viewed as automorphism groups of countable structures. The study of the dynamics of non-archimedean groups unveils interesting interactions between mathematical logic, finite combinatorics (especially Ramsey theory), topological dynamics, ergodic theory and group representations. In this talk I will give an introduction to this area of research.

AMS Classification: 03E75.