

Fraïssé limits, Ramsey theory, and topological dynamics of automorphism groups

Alexander S. Kechris
California Institute of Technology

Abstract: (joint work with V. Pestov and S. Todorcevic) It has been recently discovered that the study of topological dynamics of automorphism groups, particularly concerning extreme amenability and the calculation of universal minimal flows, is closely connected to the Fraïssé theory of amalgamation and ultrahomogeneity, and the Ramsey theory for classes of finite structures. In this talk, I will explain these connections and discuss applications to the topological dynamics of automorphism groups.