

Speaker: Dana Bartošová, University of São Paulo

Title: Partition theorems from the Dual Ramsey Theorem with nice applications

Abstract: While computing the universal minimal flow of the group of homeomorphisms of the Lelek fan, we isolated with Kwiatkowska a Ramsey property which was proved by Lopez-Abad, Mbombo and the speaker using the Dual Ramsey Theorem of Graham and Rothschild. With Lopez-Abad and Mbombo we then applied the Dual Ramsey Theorem to prove the approximate Ramsey property for finite-dimensional normed spaces. As a consequence, we obtained that the group of linear isometries of the Gurarii space is extremely amenable and computed the universal minimal flow of the group of affine homeomorphisms of the Poulsen simplex. This is a joint work with Aleksandra Kwiatkowska (UCLA), and Jordi Lopez-Abad (ICMAT Madrid and USP) and Brice Mbombo (USP).