The polynomial method in combinatorics

Shalom Eliahou Université de Geneve

Several results in graph theory and in additive number theory have recently been obtained by the polynomial method, introduced by Alon and Tarsi a few years ago. We will explain the method and some of its applications, including a short proof of Yuzvinsky's theorem on the number of colors needed in a dyadic intercalate matrix, and a generalization of this result.