

Degree Sequences of F -Free Graphs

Oleg Pikhurko
Carnegie Mellon University

March 31, 2006

Abstract

Let F be a fixed graph of chromatic number $r + 1$. We prove that for all large n the degree sequence of any F -free graph of order n is, in a sense, close to being dominated by the degree sequence of some r -partite graph. As an application of our theorem, we present new results on the generalization of the Turán problem introduced by Caro and Yuster. This is a joint work with Anusch Taraz.