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Colorings and Orientations of Graphs

Abstract for the Combinatorics Seminar 2011 May 10

I will use algebraic techniques to put a bound on the chromatic number of a directed graph as a function of the outdegrees of the vertices. I will also deduce a lower bound on the maximum cardinality of an independent set of vertices. Finally, if time permits, I will demonstrate k -choosability of bipartite graphs for suitable k .

This talk is based on the paper "Colorings and Orientations of Graphs" (Combinatorica, 1989) by Alon and Tarsi.

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