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* Seminar z teorie grafov. *
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Srdecne Vas pozývame na seminar z teorie grafov, ktorý bude vo štvrtok 7. mája o 9.50 na FMFI UK v miestnosti M213.

Prednasajúci: Jan Mazak

Nazov: Combinatorial Nullstellensatz and some of its applications

Abstrakt: We introduce the so-called Combinatorial Nullstellensatz, which is an adaptation of the Hilbert's Nullstellensatz about roots of polynomials. This theorem can be used to prove the existence of some combinatorial objects, for example, colourings of graphs. We show two of its applications. First, we present the Alon's proof of the fact that every 4-regular graph with an added edge contains a cubic subgraph (not necessarily spanning). Next, we sketch a proof of an upper bound for circular list chromatic number of bipartite graphs, following the paper Circular Choosability Via Combinatorial Nullstellensatz written by Norine, Wong and Zhu.

Edita Macajova, Martin Skoviera