

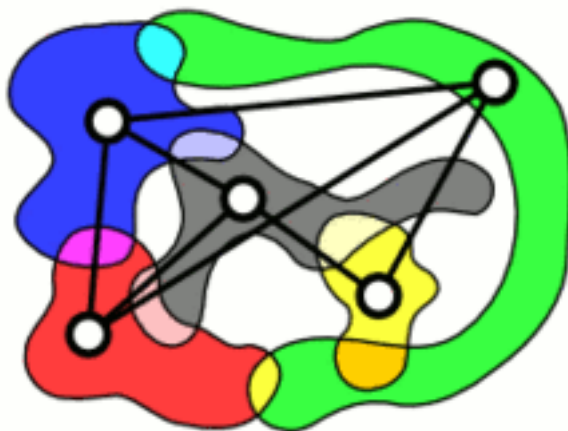
Algebraic Methods in Combinatorics

How to give best known lower bounds for Ramsey numbers using finite fields?

How to use eigenvalues of the adjacency matrix to solve graph covering problems or bound the independence number?

How to use dimension arguments to answer extremal set theory questions?

We shall address these and other new and old results in this seminar.



Prerequisites: Linear Algebra, Graph Theory, Combinatorics

Instructors: Prof. M. Axenovich, Dr. F. Clemen

Regular seminar time: Mondays 14:00-15:30

Organisational meeting: Friday, 28.07, 13:15 in room 3.061

Literature: Matoušek “Thirty-three miniatures”, Sudakov “Algebraic methods”, recent research papers