

Extremal Set Theory

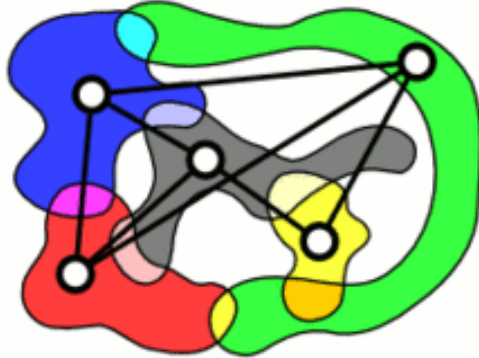
This seminar is an introduction to extremal set theory - a fast-growing field of discrete mathematics that investigates questions of the following type: if we have a collection of sets satisfying certain restrictions, how large or how small can it be? For example, if any two sets in a collection of subsets of an n -element set intersect non-trivially, one can determine the largest number of sets in such a collection exactly.

The seminar will be based on selected chapters of the book "Extremal Combinatorics" by Stasys Jukna and additional literature.

Prerequisites: linear algebra

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This seminar is open for bachelor and for master degree students.

Organisational meeting is on February 15, 13:30 in room 2.059