

Part III — Combinatorics

Based on lectures by B. Bollobás

Notes taken by Dexter Chua

Michaelmas 2017

These notes are not endorsed by the lecturers, and I have modified them (often significantly) after lectures. They are nowhere near accurate representations of what was actually lectured, and in particular, all errors are almost surely mine.

What can one say about a collection of subsets of a finite set satisfying certain conditions in terms of containment, intersection and union? In the past fifty years or so, a good many fundamental results have been proved about such questions; in the course we shall present a selection of these results and their applications, with emphasis on the use of algebraic and probabilistic arguments.

The topics to be covered are likely to include the following:

- The de Bruijn–Erdős theorem and its extensions.
- The Graham–Pollak theorem and its extensions.
- The theorems of Sperner, EKR, LYMB, Katona, Frankl and Füredi.
- Isoperimetric inequalities: Kruskal–Katona, Harper, Bernstein, BTBT, and their applications.
- Correlation inequalities, including those of Harris, van den Berg and Kesten, and the Four Functions Inequality.
- Alon’s Combinatorial Nullstellensatz and its applications.
- LLL, and its applications.

Pre-requisites

The main requirement is mathematical maturity, but familiarity with the basic graph theory course in Part II would be helpful.

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