## Discrete Maths I Seminar: Combinatorics of Partially Ordered Sets Winter 2016–17

**Lecturer:** Piotr Micek Office: 205, Arnimallee 3

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**Time:** Thursdays, 12:30-14:00, SR 119 Arnimalle 3

Webpage: http://discretemath.imp.fu-berlin.de/DMISem-2016-17/

**Topics of the course:** Recent (and less so) research in the combinatorics of posets (Ramsey properties, dimension of a poset, and many extremal-type questions).

**Literature:** T. Trotter, Combinatorics of partially ordered sets: Dimension theory, together with original research papers.

**Prerequisites:** Successful completion of Discrete Maths I or equivalent (contact the instructor).

Requirements: If you have partners for multiple talks on a topic, you should work together closely to understand your section(s) and plan the individual talks.

Before the talks, you have to schedule **at least two** meetings with your adviser:

- The first meeting should be at least **two weeks** before your scheduled talk. By this point, you should have read and worked through the section(s) completely. The goal of this meeting is to clarify any parts of the material you do not fully understand. To this end, you should come prepared with **concrete** questions, such as, "How does line 29 follow from lines 16 and 27 in the proof of Theorem 4.3.5?" Simply saying, "I do not understand the proof of Theorem 4.3.5" is not acceptable.
- The second meeting should be at least **one week** before your scheduled talk, and is practically a rehearsal. By this point, you should have your presentation completely prepared. If you are giving a Beamer

presentation, all your slides should be completely finished - it is not okay to have any images or text missing. If you will be giving a blackboard presentation, you should have everything you plan to put on the board clearly written out, and notes on what you will be saying. The goal of this meeting is for the adviser to provide suggestions to improve the presentation ("This slide is too dense" or "Perhaps you should rearrange things here").

It is your responsibility to arrange the meetings with your adviser. Feel free to ask for extra meetings if you would like some additional input. If you miss or come unprepared to these meetings, or if your rehearsal fails to meet the minimum standards, your talk will be cancelled and you will not earn credit for the semester.

**Grading:** You will be graded based on two criteria, both equally important:

- your understanding of the topic, and
- the quality of your presentation.

Successful completion of the seminar requires passing grades for both criteria.

Attendance and activity: To earn credit for the seminar, you must attend 90% of the lectures and pepper your colleagues with questions demanding clearer explanations of anything you do not understand in their talks.

The goal of the seminar is **not** to allow the speaker to repeat her or his rehearsed talk in a calm and quiet setting, but rather that we the audience learn and appreciate some nice new mathematics. Bear in mind that it is the speaker who is there to serve the audience, and not vice versa!