Seminar: High-temperature Superconductivity 2023/24

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Modalities

- Mondays, 12:15-14:00, Hybrid format: Theresienstr. 37, Room A450, + live streaming via Zoom (see link below).

Goals

- learn about current hot topics
- learn how to read current papers and distill the main message without understanding all details

Prerequisites

- Quantum mechanics, statistical physics, basics of solid state physics
- 2nd quantization. For an introductory lecture, see https://www2.physik.uni-muenchen.de/lehre/vorlesungen/wise_20_21/2nd_quantization/index.html

Your task

- Give a talk about a research paper, explaining its key ideas to an audience unfamiliar with the topic.
- Selected papers (listed below) are high-profile or high-impact, with relevance for topics of current high interest.

Your talk

- 25 minutes per talk (sharp!), practice your talk to make sure you'll finish in time.
- 2 talks per seminar timeslot; these will always be on related topics, so coordinate your preparation with your partner.
- Use slides presented on your computer (power point or keynote, etc.).
- Number your slides - this helps the adience when asking questions about particular slides.
- Don't use too many slides! 3 minutes per slide is a good rule of thumb, so aim for about 8 slides, and no more than 10.

Participation/duration

- Participation at all talks is mandatory to obtain a certificate (Schein), and will be monitored through attendance lists.
- For each seminar not attended without excuse, 0.3 points will be deducted from the final grade.
- Each participant has to ask at least one question per session.

Mentor

- Each student will be assigned to a mentor, who will answer questions and give advice on preparing your talk.
- Make sure to set up a first meeting with your mentor no later than three weeks before your scheduled talk.
- Ideally, both students speaking on the same day should participate in mentor meetings together, since your topics are related.
- Read the material before the first meeting with your mentor.
- Give at least one practice talk, preferably with your mentor and the other student speaking on the same day.
- Ideally, the practice talk should be several days before the actual talk, to leave time for major revisions.