LEARNING GROUP ON CONDENSED MATHEMATICS
BEIJING, FALL 2024

The goal of this learning group is to learn about basics of condensed mathematics. The scope will include but not be restricted to the theory of solid abelian groups.

ORGANIZERS

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TIME AND PLACE

Mondays 4:20 pm, MCM 110.

REFERENCES

The main references:

- [Cam24] Camargo, *Notes on Solid Geometry.* available here: https://blogs.cuit.columbia.edu/jr4460/seminar-on-solid-geometry/
- Clausen and Scholze, *24 lectures on Analytic Stacks, at IHES and Bonn, Fall 2023.* Videos available online:
  https://www.youtube.com/watch?v=YxSZ1mTIpaA&list=PLx5f8IelFRgGmu6gmL-Kf_Rl_6Mm7juZO&index=1
  or
  https://www.bilibili.com/video/BV1MDvCeHEWd/?spm_id_from=333.337.search-card.all.click&vd_source=a5be8a75eb29fe979a159e395ace04ae

Complementary reference:

- [CS19] Clausen and Scholze, *Lectures on Condensed Mathematics, 2019.* available https://people.mpim-bonn.mpg.de/scholze/Condensed.pdf

* Some main definitions in [CS19] have been significantly updated in the newer version of the theory, as presented in the two main references.

TALK SCHEDULE

All references are to [Cam24].

Talk 1, 10/14. 2.1, 2.2. You can also include some background discussion following Lecture 1 of [CS19].

Talk 2, 10/21. 2.3

Talk 3, 10/28. 3.1, 3.2.1, 3.2.2, Proof of 3.2.4 until the end of part (1). If you still have time, state the full 3.2.3.

Talk 4, 11/4. The rest of the proof of 3.2.4. 3.2.5.

Talk 5, 11/11. 3.3. This may take two talks.

Talk 6, 11/18. 3.4.