

# RESUME Klaus Mattis

## Contact Information

Email klaus.mattis@uni-mainz.de

## Research Interests

Motivic Homotopy Theory  
Higher Categories  
Algebraic K-Theory

## Education

- 2023- PhD Student, Mathematics at JGU Mainz. Advisor: Tom Bachmann
- 2022 MSc Mathematics, Grade: 1.0, Thesis title: *Isomotives of Dimension at most 1*, Advisor: Fabien Morel
- 2021 BSc Mathematics, Thesis title: *Examples of étale  $(\varphi, \Gamma)$ -modules*, Advisor: Werner Bley
- 2017-2022 Study of Mathematics at LMU Munich
- 2017 Abitur at Gymnasium Oberhaching

## Preprints

- Klaus Mattis and Timo Weiß. The derived  $\infty$ -category of Cartier Modules. *preprint*, arXiv:2410.1710, 2024
- Klaus Mattis. Unstable arithmetic fracture squares in  $\infty$ -topoi. *preprint*, arXiv:2404.18618, 2024
- Klaus Mattis. The pro-Nisnevich topology. *preprint*, arXiv:2404.17314, 2024
- Klaus Mattis. Unstable  $p$ -completion in motivic homotopy theory. *preprint*, arXiv:2401.17848, 2024

## Academic Service

March 2024 *Winter school on unstable motivic homotopy theory*, JGU Mainz. Co-organizer

## Teaching Experience

WT 24/25 TA, Math for Computer Science 1, JGU Mainz

WT 23/24 TA, Math for Computer Science 2b, JGU Mainz  
ST 23 TA, Elementary Differential Geometry, JGU Mainz  
ST 21 Tutor, Commutative Algebra, LMU Munich  
WT 20/21 Tutor, Algebra, LMU Munich  
ST 20 Organizer, Reading Class on Category Theory, LMU Munich  
ST 20 Tutor, Linear Algebra 2, LMU Munich  
WT 19/20 Tutor, Linear Algebra 1, LMU Munich

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### Non-academic Service

2016-present Volunteer at Red Cross, KV München  
2016-2023 Software developer at Microstep AG  
2019-2020 Volunteer author for Serlo Hochschulmathematik, an open source platform with the goal to support struggling students