RESUME Klaus Mattis

Contact Information

Email klaus.mattis@uni-mainz.de

Phone +49 160 1031463

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* (φ, Γ)*-modules*, Advisor: Werner Bley

2017-2022 Study of Mathematics at LMU Munich

2017 Abitur at Gymnasium Oberhaching

Preprints

- Klaus Mattis. Unstable p-completion in motivic homotopy theory. *preprint*, arXiv:2401.17848, 2024
- Klaus Mattis. Unstable arithmetic fracture squares in ∞-topoi. *preprint*, arXiv:2404.18618, 2024
- Klaus Mattis. The pro-nisnevich topology. *preprint*, arXiv:2404.17314, 2024

Academic Service

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

Teaching Experience

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

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