Leonard Tokic

CONTACT INFORMATION

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EDUCATION

Ruhr-Universität Bochum, Bochum, Germany

Ph.D. Candidate mathematics, May 2022 (expected graduation date: 25.08.2025)
- Dissertation: "Splittings of Thom spectra up to finite Galois extension at heights 1 and 2"
- 1st advisor: Gerd Laures, 2nd advisor: Björn Schuster
- Funded by the Deutsche Forschungsgemeinschaft - 510812084

Massachusetts Institute of Technology, Cambridge, USA

Visiting student in the fall term of 2023

Universiteit van Amsterdam, Amsterdam, Netherlands

M.Sc. mathematics and M.Sc. theoretical physics, August 2021
Thesis title: "Real Equivariant K-theory Invariants for Class AI Topological Insulators"
Advisors: Hessel Posthuma and Erik van Heumen, GPA: 8.7 (dutch grade)

Ruhr-Universität Bochum, Bochum, Germany

B.Sc. physics, August 2018
Thesis title: "Particle in a Random Potential and its Relation to Anyons"
Advisor: Maxim Polyakov, GPA: 1.3 (german grade)

HONORS AND AWARDS

Universiteit van Amsterdam: Sander Bais prize for outstanding academic performance in the first year of the masters programme in theoretical physics, 2019

Ruhr-Universität Bochum: 'Deutschland Stipendium' scholarship, 2016-2018

TEACHING EXPERIENCE

Ruhr-Universität Bochum, Bochum, Germany
Teaching Assistant
Experimental Physics 1, 2016
Analysis 1, 2021
Linear Algebra 1, 2022
Linear Algebra 2, 2022
Algebraic K-theory, 2024
Algebraic Topology 1, 2024
Seminars
Synthetic Spectra, 2024

Universiteit van Amsterdam, Amsterdam, Netherlands
Teaching Assistant
Analysis for Engineers 1, 2019
Statistical Physics and Condensed Matter Theory 1, 2020
Topology in Physics, 2021
Seminars
Student run seminar on fundamental notions in math, 2018-2020

PAPERS   Leonard Tokic. $K(2)$-local splittings of finite Galois extensions of $MU\langle 6\rangle$ and $MString$, arXiv:2411.16280.

CONFERENCE   Introductory Workshop for Equivariant Homotopy Theory in Context 2025, A $K(2)$-local splitting
PRESENTATIONS   of a finite Galois extension of $MString$, poster presentation
                European Autumn School in Topology 2024, A $K(2)$-local splitting of a finite Galois extension of
                $MString$, contributed talk

CONFERENCES   Young Topologists Meeting 2025, Stockholm
ATTENDED   Masterclass on Arithemtic & Homotopy Theory 2025, Copenhagen
                Masterclass on Cobordism Categories 2025, Copenhagen
                Introductory Workshop for Equivariant Homotopy Theory in Context 2025, Cambridge
                European Autumn School in Topology 2024, Utrecht
                Young Topologists Meeting 2024, Münster
                33rd NRW Topology Meeting 2024, Wuppertal
                Winter School on Unstable Motivic Homotopy Theory 2024, Mainz
                The Transatlantic Transchromatic Homotopy Theory Conference II 2023, Regensburg
                A Panorama of Homotopy Theory 2023, Oxford
                Masterclass on Higher Representation Theory 2023, Copenhagen
                European Autumn School in Topology 2022, Utrecht
                Workshop on Derived Geometry 2022, Barcelona
                Spring School on Field Theories and Algebraic Topology 2022, Utrecht
                Homotopical Methods in Geometry and Physics 2022, Northwestern