

# Niklas Arppe

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## Research interests

Homotopical and higher categorical approaches to algebraic and arithmetic geometry, motivic homotopy theory, algebraic K-theory, geometric and arithmetic Langlands program

## Education

2025–2027 **MSc Mathematics**, *University of Bonn*

Grade: 1.1 (Best possible grade: 1.0)

2023–2025 **BSc Mathematics**, *University of Helsinki*

Grade: 5.0 (Best possible grade: 5.0)

## Selected talks

07/2026 **Simplicial homotopy theory seminar**, *University of Bonn*

Title: The Dold-Kan correspondence

07/2026 **Geometric invariant theory seminar**, *University of Bonn*

Title: Grassmannians as quotients

02/2026 **Higher category theory seminar**, *University of Bonn*

Title: Spectra and stable  $\infty$ -categories

01/2026 **Absolute prismatic cohomology seminar**, *University of Bonn*

Title: Relative prismatic cohomology

10/2025 **Absolute prismatic cohomology seminar**, *University of Bonn*

Title: Recollections on classical prismatic cohomology

07/2025 **Derived algebraic geometry seminar**, *Aalto University*

Title: Basics on non-derived stacks

## Selected awards

06/2022 **Technology Industries of Finland Centennial Foundation's stipend**

06/2022 **The Håkan Simberg Foundation's stipend**

## Conference and workshop attendance

09/2026 **New Perspectives on Stable Homotopy and Beyond**, *Max Planck Institute for Mathematics*

08-09/2026 **Recent Developments in Arithmetic and Algebraic Geometry in Positive Characteristic**, *University of Wuppertal*

04/2026 **Kleine AG: Rapoport–Zink spaces and  $p$ -adic uniformization**, *University of Münster*

04/2026 **Kleine AT: Topological cyclic homology**, *University of Wuppertal*

03/2026 **Recent Advances in Motivic Cohomology**, *University of Osnabrück*

10/2025 **Kleine AT: Evenness via Spectral Sequences**, *Max Planck Institute for Mathematics*

## Teaching

### Courses

2025 **University of Helsinki, Helsinki**  
Teaching assistant for *Topology IB*

2025 **University of Helsinki, Helsinki**  
Teaching assistant for *Topology IA*

2025 **University of Helsinki, Helsinki**  
Teaching assistant for *Linear algebra II*

2024 **University of Helsinki, Helsinki**  
Teaching assistant for *Limits*

### Other

2023–2025 **Uplus yksityisopetus, Helsinki**  
Private mathematics teacher

## Organizing

### Seminars

2026 **University of Bonn, Bonn**  
Learning seminar on algebraic K-theory of small stable  $\infty$ -categories

## Service

2023 **Integralsdagarna, Helsinki**