Sihao Ma

Curriculum Vitae September, 2024

Department of Mathematics University of Notre Dame 255 Hurley Hall Notre Dame, IN 46556 ♦ https://masihao.github.io/

■ sma2@nd.edu

Research Homotopy theory, especially in computational and chromatic aspects,

INTERESTS with tools from equivariant and motivic homotopy theory.

EDUCATION University of Notre Dame Indiana, USA

Ph.D. candidate in Mathematics 2020-present

Advisor: Mark Behrens

Peking UniversityBejing, ChinaB.S. in Mathematics2016-2020

Advisor: Houhong Fan

Papers Towoards the K(2)-local homotopy groups of $\mathbb{RP}^2 \wedge \mathbb{CP}^2 \wedge \mathbb{HP}^2$ In preparations.

at p = 2.

A proof of the generalized geometric boundary theorem arXiv:2309.14650

using filtered spectra.

Topology and its Applications 355 (2024): 109006.

The Borel and genuine C_2 -equivariant Adams spectral arXiv:2208.12883

sequences.

Last updated: 09/10/2024.

Talks Towoards the K(2)-local homotopy groups of $\mathbb{RP}^2 \wedge \mathbb{CP}^2 \wedge \mathbb{HP}^2$

at p = 2.

AMS JMM Special Session on Homotopy Theory 01/2025

Towoards the K(2)-local homotopy groups of $\mathbb{RP}^2 \wedge \mathbb{CP}^2 \wedge \mathbb{HP}^2$

at p=2.

UIUC Topology Seminar 12/2024

The Borel and genuine C_2 -equivariant Adams spectral

sequences.

Notre Dame Graduate Student Topology Seminar 03/2024

The Borel and genuine C_2 -equivariant Adams spectral

sequences.

UCSD Topology Seminar 02/2024

The Borel and genuine C_2 -equivariant Adams spectral sequences.

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AMS Sectional Meeting Special Session on Homotopy Theory 10/2023

	The Borel and genuine C_2 -equivariant Adams spectral sequences.	
	UCSD Topology Seminar	03/2023
TEACHING	Teaching Assistant, Homor Calculus III, University of Notre Dame	Fall 2023
Experience	Instructor, Calculus B, University of Notre Dame	Spring 2023
	Teaching Assistant, Calculus II, University of Notre Dame	Fall 2022
	Teaching Assistant, Linear Algebra and Differential Equations, University of Notre Dame	Spring 2022
	Teaching Assistant, Calculus I, University of Notre Dame	Fall 2021
	Teaching Assistant, Mathematical Analysis II, Peking University	Spring 2020
	Teaching Assistant, Mathematical Analysis I, Peking University	Fall 2019
Undergraduate	The homotopy of tmf at the prime 2.	PDF
RESEARCH	Advised by Zhouli Xu	$Summer\ 2019$