

Curriculum Vitae of Sho Saito

Contact Information

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Research Interests

Algebraic K -theory, derived algebraic geometry, formal loop spaces.

Personal Data

Born on November 14, 1986; Japanese citizen.

Education

Nagoya University: M.S., March 2011; Ph.D., October 2014.

(Advisor: Lars Hesselholt; Ph.D. Thesis: *Previdi's delooping conjecture
and the classification theorem for torsors over the sheaf of K -theory spaces.*)

Keio University: B.A. in Policy Management, March 2009. (Advisor: Masato
Kurihara.)

Employment

JSPS Research Fellow (PD), November 2014–March 2015.

JSPS Research Fellow (DC2), April 2013–October 2014.

Research Grants

Grant-in-Aid for JSPS Fellows (13J03523), April 2013–March 2015.

Awards and Scholarships

Scholarship from the *Mitsubishi UFJ Trust Scholarship Foundation*, April 2007–March 2009.

Keio University Scholarship, 2007, 2008.

Scholarship from the *Daiko Foundation*, 2010.

Mathematics Thesis Prize (an internal prize of the Graduate School of Mathematics, Nagoya University, awarded for excellent Master's theses), March 2011.

Scholarship from the *Showa Hokokai Foundation*, April 2011–March 2013.

Research Institute Visits

Department of Mathematical Sciences, University of Copenhagen, Denmark, April–September 2012.

Papers

Preprints:

Sho Saito, *Higher Tate central extensions via K-theory and infinity-topos theory*, arXiv.1405.0923.

Sho Saito, *On Previdi's delooping conjecture for K-theory*, arXiv.1203.0831.

Published Papers:

Sho Saito, *On the geometric realization and subdivisions of dihedral sets*, *Algebraic and Geometric Topology* 13 (2013), 1071–1087.

Selected Talks

Conferences (International):

On Previdi's delooping conjecture for K-theory, Virginia Conference on Algebraic Topology, University of Virginia, June 2012.

Conferences (Domestic):

Classification theorem for torsors over the sheaf of K-theory spaces, Workshop on arithmetic geometry in Hakodate, Hakodate, Japan, May 2014.

Higher Tate central extensions via K-theory and ∞ -topos theory, Workshop on noncommutative motives and derived algebraic geometry, Chuo University, February 2014.

Delooping K-theory via determinantal anomaly, KANT (Kyushu Algebraic Number Theory) 2012, Kyushu University, February 2012.

Seminars:

Classification theorem for torsors over the sheaf of K-theory spaces, Mathematics–String Theory Seminar, IPMU, November 2014.

Moduli space of K-theory torsors, Algebraic Geometry Seminar, Nagoya University, June 2014.

Infinite-dimensional vector bundles with higher-locally-linearly-compact fibres, Seminar on Motives, Algebraic Cycles, and Algebraic K-theory, Chuo University, September 2013.

Higher Tate spaces, Seminar on Motives, Algebraic Cycles, and Algebraic K-theory, Chuo University, December 2012.

On Previdi's delooping conjecture for K-theory, Number Theory Seminar, Tohoku University, November 2012.

On Previdi's delooping conjecture for K-theory, Student Seminar on Algebraic K-theory, University of Copenhagen, May 2012.

On Previdi's delooping conjecture for K-theory, Algebra Seminar, Keio University, March 2012.

Lectures for Educational Purposes:

Preliminaries from algebraic K-theory: On the localisation exact sequences, Summer School on non-commutative Iwasawa theory, Shodo Island, Japan, August 2014.

Generalized cohomology and spectra (lecture on spectra, based on the theory of stable ∞ -categories), Geometrical Perspective of Topological Modular Forms, University of Tokyo, November 2012.

Teaching Experiences

Student assistant (equivalent to teaching assistant) for an introductory course on statistics, Spring 2006, Keio University.

Teaching assistant for courses on differential geometry (Spring 2009), calculus (Spring-Fall 2009), and exercise courses on linear algebra and calculus (Fall 2009, Spring 2010), Nagoya University.

November 11, 2014.