Fei Si

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Personal

Now I am a sixth year PhD student at Shanghai Center for Mathematical Sciences under supervision of Prof.Meng Chen and Prof. Zhiyuan Li. My research interest is Moduli space in Algebraic geometry and related topics. Currently I am studying the Chow ring of moduli space of K3 surface and cohomology of moduli space of Cubic Fourfolds, also considering some explicit Variation GIT compactification of moduli space of K3 surfaces of low genus and its birational geometry.

Research interest

1. Topology and geometry of moduli spaces in Algebraic geometry.

2. Cycle theory on moduli spaces.

Papers

1. Compactifications of moduli space of K3 surfaces of degree 6, with Francois Greer, Radu Laza, Zhiyuan Li, Zhiyu Tian. in preparation.
2. The cohomology of moduli space of cubic Fourfolds I

Talks

Invited Talks

Compatifications of moduli spaces of K3 surfaces of degree 6, East Asian Core Doctoral Forum on Mathematics 2020 January 14-17, 2020, Kavli IPMU, Tokyo.

Seminar Talks

Introduction to equivariant cohomolog, 2018 Fall Program of Moduli Spaces and Varieties, Shanghai Center for Mathematical Sciences;

Gromov–Witten Learning Seminar: Descendent theory: local curves and toric 3-folds; 2018 Fall Program of Moduli Spaces and Varieties;

Gromov–Witten Learning Seminar:GW/DT correspondence for quintic 3-folds, 2018 Fall Program of Moduli Spaces and Varieties.

Education

B.S. College of Mathematica and Statistics, ChongQing University, 2011–2015.

Ph.D. Mathematics, Shanghai Center for Mathematical Sciences, Fudan University, 2015–Now.

Teaching Experience

TA, Analytic geometry, 2017 Fall.

TA, Abstract Algebra (Honored course), 2018 Spring.

Conference

Algebraic Geometry Conference In honor of Arnaud Beauville's 70th birthday October 23 - 27, 2017 MCM, CAS, Beijing

Winter school on Hodge Modules and Higgs Bundle, SYSU Zhuhai, January 1 to 7, 2018

Tianyuan Advanced Seminar on the Moduli Spaces in Algebraic Geometry April 2 - 7, 2018 Shanghai Center for Mathematical Sciences

AMS-CMS Joint International Meeting, Special Session on Algebraic Geometry June 11 - 14, 2018 Fudan University, Shanghai

Modern Algebraic Geometry July 23 - 26, 2018 BICMR, PKU, Beijing

Fall Program on Moduli Spaces and Varieties September 10 - November 23, 2018 SCMS, Fudan University, Shanghai

Introductory Workshop: Derived Algebraic Geometry and Birational Geometry and Moduli Spaces January 28, 2019 - February 08, 2019 MSRI, California

Lecture Series in Algebraic Geometry, Morningside Center of Mathematics, Beijing August 26 – September 27, 2019

Beijing - Zürich Moduli Workshop, PKU, Beijing (9-12 September 2019)

Moduli of Higgs bundles: ETH Zürich, (20-23 January 2020)

Last updated: December 27, 2020