

YANG ZHANG

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PROFILE

I'm currently a master student at Universität Bonn. My current interest is in algebraic geometry, in particular birational geometry and surface theory. I finished my bachelor thesis last semester, which focuses on the bounded negativity conjecture. Now I'm doing a research project under supervision of Dr. Gebhard Martin, trying to determine the automorphism scheme of smooth $(2, 2)$ -complete intersections in characteristic 2.

EDUCATION

Mathematik, Bachelor of Science Universität Bonn	Fall 2020 - Spring 2023
Mathematics, Master of Science Universität Bonn	Spring 2023 - Present

WRITINGS

On the Bounded Negativity Conjecture

This is my bachelor thesis supervised by Dr. Gebhard Martin and Prof. Dr. Daniel Huybrechts. I summarized some recent results concerning the bounded negativity conjecture, which is still open in characteristic 0 for now.

TEACHING

Tutor of Algebra I (Commutative Algebra) Universität Bonn, Lecturer: Prof. Dr. Daniel Huybrechts	Sommersemester 2024
Tutor of Einführung in die Algebra (Introduction to the Algebra) Universität Bonn, Lecturer: Prof. Dr. Daniel Huybrechts	Wintersemester 2023/24
Tutor of Algebraic Geometry II Universität Bonn, Lecturer: Dr. Gebhard Martin	Sommersemester 2023
Tutor of Algebraic Geometry I Universität Bonn, Lecturer: Dr. Gebhard Martin	Wintersemester 2022/23
Tutor of Mathematik für Physiker (Mathematics for phycists) II Universität Bonn, Lecturer: Dr. Illia Karabash	Sommersemester 2022

SEMINAR TALKS

K-Stability Universität Bonn My talk involves the construction of the moduli stack of K-semistable Fano varieties by discussing their boundedness and openness.	Sommersemester 2024
Compactified Moduli of K3 Universität Bonn I gave the first talk which discussed the basic properties of complex K3 surfaces and moduli spaces of polarized K3 of low degrees.	Sommersemester 2024

Chow Groups and Motives

Wintersemester 2022/23

Universität Bonn

The content of my talk consists of introducing the intersection product on the chow ring of a variety, proof of the moving lemma and the projection formula, and the compatibility of intersection product and cup product.

Klassische Algebraische Geometrie(Classical Algebraic Geometry)

Wintersemester 2021/22

Universität Bonn

I gave a half part in each of two talks. The first talk is about defining product of two projective spaces using the Segre map. The second talk presents the classification of cubic curves on the projective plane.

DISTINCTIONS

IMC Maths 2023, Bronze medal.

IMC Maths 2022, Silver medal.

NOIP China 2018, first award.

EXTRAS

Language skills

Chinese (mother tongue), German (C1), English (TOEFL 107).

Accountant of student company AMBIX

Fall 2017 - Fall 2018

I was active in AMBIX, a student party focusing on organizing business imitation contest for middle school students in grade 9 to 12.