

# Changping Fan

Address: No.24 South Section 1, Yihuan Road, Chengdu, China, 610065

Email: Leslie.Fan@outlook.com

Mobile: +86 18196775523

## EDUCATION

**Sichuan University (SCU)**

**09/2019-06/2025**

Major in architecture at the College of Architecture & Environment from Sept 2019 to Jun 2021

Major in Mathematics at the School of Mathematics since Sept 2021

Degree: Bachelor of Science (expected in June 2025)

GPA: 3.73/4.0, Major GPA: 3.78/4.0; ranking top 2 in pure mathematics major

## PREPRINT

**Changping Fan**, Zhiyu Liu, Songtao Kenneth Ma, *Stability Manifolds of Kuznetsov Components of Prime Fano Threefolds*

<https://arxiv.org/abs/2310.16950>

arXiv:2310.16950, has been submitted to **Algebraic Geometry**, ISSN 2214-2584 in October, 2023

## ACADEMIC EXPERIENCE

### Paper

*Stability Manifolds of Kuznetsov Components of Prime Fano Threefolds*

- One of the most important conjectures in the theory of Bridgeland stability conditions is the simply connectness of the space of stability conditions, at least for the principal component.
- In this paper, we verify this conjecture for Bridgeland stability conditions on Kuznetsov components, which are subcategories of derived categories of coherent sheaves on a series of Fano threefolds. More precisely, we prove that the principal component of the space of stability conditions on Kuznetsov component of a series Fano threefolds is the orbit of a suitable group action, which implies the simply connectedness.

### Research Seminars, group member of geometry

Advisor: Prof. Wenchuan Hu

04/2022-Present

- Take part in the weekly seminars and group discussions on algebraic geometry and infinite category;

### Research Seminars

Advisor: Prof. Xiaojun Chen

09/2022-09/2023

- Participated in the algebraic geometry discussion class of a group of graduates, mainly discussed Hartshorne's book and moduli theory.

### Team Leader, Student Research Training Practice held by the School of Mathematics, Sichuan University

- Lead team members to complete the project application form; Arranged team members to read the relevant literature, organized regular study and discussion, and wrote a learning report titled Positivity on K3 Surface.
- Participate in the 4<sup>th</sup> National Conference on Algebraic Geometry that held at the School of Mathematics, Shandong University.

## ADDITIONAL INFO

### Competitions

Successful Participation in the MCM/ICM 02/2021

Successful Participation, China Undergraduate Mathematical Contest in Modeling/CUMCM 09/2021

Provincial Second Prize in the National Mathematics Competition for College Students 10/2019

### Extracurricular Activities

Member of the Go Game Club, take part in the regular training and practice 09/2022-Present

Secretary of the Association for Machine Learning and Big data 09/2023-07/2024

Football team player of the School of Mathematics, SCU 09/2021-07/2022

Chairman of the Association for Mathematical Modeling, SCU 09/2021-06/2022

- Responsible for organizing four lecture series yearly to provide help to students who will participate in mathematical modeling competitions. Practiced leadership abilities including communication and cooperation.

Volunteer at the *Multicolor Stone*, Volunteer Association at SCU 10/2019-07/2021

- Correspond with children in impoverished areas and raise funds for their books and stationery.