

Minghao Miao

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Research Interests

Complex Geometry, Kähler Geometry: Currently, I am applying algebraic K-stability theory to questions about Kähler-Ricci Flow and Kähler-Ricci soliton on Fano variety.

Education

Nanjing University September 2021 – Present
M.A. Candidate in Mathematics, Department of Mathematics
Thesis Advisor: Professor Gang Tian
Nanjing, Jiangsu, China

Nanjing University September 2017 – July 2021
B.S. in Mathematics, Kuang Yaming Honors School
Nanjing, Jiangsu, China

Experience

Beijing International Center for Mathematical Research (BICMR) September, 2021 – Present
Visitor
Beijing, China

Duke University August, 2019 – December, 2019
Visiting International Student Program
Durham, NC, USA

Publications and Preprints

Optimal Degenerations of K-unstable Fano threefolds

Joint work with Linsheng Wang, arXiv:2401.13999

Kähler-Ricci solitons on Fano threefolds with non-trivial moduli

Joint work with Linsheng Wang, arXiv:2309.14212

A Note On Kähler-Ricci Flow on Fano Threefolds

Joint work with Gang Tian, arXiv:2210.15263, accepted by Peking Math. J.

Research Presentations

Optimal Degenerations of K-unstable Fano Threefolds, Geometry Seminar, Tsinghua University, 03/2024.

Optimal Degenerations of K-unstable Fano Threefolds, Complex Analysis and Geometry Seminar, Rutgers University, 02/2024.

Kähler-Ricci soliton and weighted Abban-Zhuang Estimate, Geometric Analysis Seminar, Westlake University, 12/2023.

Kähler-Ricci soliton and weighted Abban-Zhuang Estimate, Recent Progress on Analytic Minimal Model Program, Tianyuan Mathematics Research Center, 10/2023.

Kähler-Ricci Flow on Fano Threefolds, National Workshop on Geometric Analysis, Xinjiang Normal University, 06/2023.

Kähler-Ricci Flow on Fano Threefolds, Geometric Analysis Seminar, Westlake University, 12/2022.

Kähler-Einstein metric on Fano manifold, Students Geometry and Analysis Seminar Talk, University of Toronto, 09/2022.