Jiabin Du
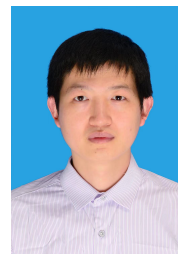
Personal Information

Postdoc
Shanghai Center for Mathematical Sciences, Fudan University
No. 2005 Songhu Road,
Shanghai, 200438, China.
homepage : https://jiabindu.github.io/
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Research interest

Algebraic Geometry : algebraic cycles, algebraic surfaces, abelian varieties, irregular varieties.

- Bloch-type Conjecture for zero-cycles on surfaces and finite-dimensionality of Chow motives of surfaces
- Generic Vanishing Conjecture on abelian varieties
- Geography/Classification of surfaces of general type and irregular varieties

(Pre)Publications

1) **On symplectic automorphisms of elliptic surfaces acting on** CH_0,
   (with Wenfei Liu), Sci. China Math. 66 (2023), no. 3, 443-456.

2) **On the action of symplectic automorphisms of fibred surfaces of genus** 2 **on** CH_0,
   (with Wenfei Liu), in preparation, 2023.

3) **Cohomological rank functions and surfaces of general type with** $p_g = q = 2$,
   (with Zhi Jiang, Guoyun Zhang), arXiv :2309.05097.

Invited talks

1. On symplectic automorphisms of elliptic surfaces acting on CH_0, When Number Theory meets Algebraic Geometry, USTC, Hefei, April 18-23, 2021

2. On symplectic automorphisms of elliptic surfaces acting on CH_0, The 5-th Jingrun Academic Week, XMU, Xiamen, Dec. 04, 2021

3. On symplectic automorphisms of fibred surfaces of genus two acting on CH_0, The China Southeastern Algebraic Geometry Symposium (II), SYSU, Guangzhou, June 12, 2022

4. On symplectic automorphisms of fibred surfaces of lower genus acting on CH_0, The 3rd National Algebraic Geometry Conference, Fudan U, Shanghai, July 18, 2022

5. Cohomological rank functions and surfaces of general type with $p_g = q = 2$, One-day workshop on algebraic surfaces and related topics, XMU, Xiamen, Sep. 22, 2023

6. Cohomological rank functions and surfaces of general type with $p_g = q = 2$, USTC, Hefei, Nov. 24, 2023

7. Cohomological rank functions and surfaces of general type with $p_g = q = 2$, Young Perspectives on Algebraic Geometry, AMSS, Beijing, Dec. 11, 2023

Education

Doctor of Philosophy
   in Pure Mathematics, Xiamen University, 2018.9-2022.6
   Advisor : Prof. Wenfei Liu
   Thesis title : On the action of symplectic automorphisms of fibred surfaces on CH_0

Master of Science
   in Pure Mathematics, University of Science and Technology of China, 2016.9-2018.6
   Advisor : Associate Prof. Jinxing Xu
   Thesis title : On the Enriques-Kodaira classification of algebraic surfaces

Bachelor of Science
   in Mathematics and Applied Mathematics, Henan Normal University, 2012.9-2016.6

EMPLOYMENT	**Shanghai Center for Mathematical Sciences, Fudan University**	*July 2022-Present*
	Postdoctor, Mentor : Prof. Zhi Jiang	

TEACHING	**Spring 2023**	*Fudan University*
	Exercises on Advanced Linear Algebra	
	Discussion on Modern Algebra	

AWARDS

- **Egret Scholarship** Xiamen University, March 2022

TRAVEL

2023

1. Visiting Prof.Wenfei Liu, Xiamen U, Xiamen — *March 24-26*
2. 2023 Workshop on Explicit Birational Geometry, Fudan U, Shanghai — *April 21-23*
3. 2023 Conference on Algebraic Geometry and Related Topics, Nanjing U, Nanjing — *May 8-12*
4. Summer school on Chow-Witt rings, BIMSA, Beijing — *Aug 21-25*
5. The China Southeastern Algebraic Geometry Symposium, Great Bay U, Guangdong — *Nov. 17-19*
6. Visiting Prof.Lei Zhang, USTC, Hefei — *Nov. 23-26*

LANGUAGES

Chinese (native), English (fluent)

SERVICES

Reviewer for Mathematical Reviews, Zb Math