

Ryo ISHIZUKA | 石塚 伶

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<https://ryo1203.github.io>

Education

Tokyo Institute of Technology

Master of Science in Mathematics

Supervisor: Kazuma Shimomoto (2nd year), Fumiharu Kato (1st year)

Tokyo, Japan

Apr 2022–Current

Tokyo Institute of Technology

Bachelor of Science in Mathematics

Supervisor: Fumiharu Kato

Tokyo, Japan

Apr 2018–Mar 2022

Research Interests

Commutative algebra in mixed characteristic (via arithmetic methods such as perfectoid rings and prismatic cohomologies).

Preprints

- [1] R. Ishizuka and K. Shimomoto. *A mixed characteristic analogue of the perfection of rings and its almost Cohen-Macaulay property*. arXiv:2303.13872.

Talks

- Mar 2023. “A mixed characteristic analogue of the perfection of rings”, The 11th Japan-Vietnam Joint Seminar on Commutative Algebra - by and for young mathematicians -, Vietnam Academy of Science and Technology, Vietnam
- Mar 2023. “An explicit construction of perfectoid almost Cohen-Macaulay algebras in mixed characteristic”, MSJ Spring Meeting 2023, Chuo University, Japan
- Mar 2023. “An explicit construction of perfectoid almost Cohen-Macaulay algebras”, The 19th Mathematics Conference for Young Researchers, Hokkaido University, Japan
- Oct 2022. “An explicit construction of perfectoid almost Cohen-Macaulay algebras in mixed characteristic”, The 43rd Japan Symposium on Commutative Algebra, Osaka University, Japan

Membership

- Apr 2023– . Mathematical Society in Japan (MSJ)

Languages

Japanese: Native

Mother tongue

English: Intermediate

Can read, write, and, listen but may struggle with conversation

French: Beginner

Can only read mathematical texts