

Runze Wang

School of Mathematical Sciences
Zhejiang University
866 Yuhangtang Road, Hangzhou, China 310058

wang_runze@zju.edu.cn
<https://mathrunze.github.io>

Education

Ph.D. Zhejiang University 2021-(2026)
Advisors: Prof. Fan Gao
Thesis: L-parameters for genuine principal series representations

B.S. Zhejiang University 2017-2021

Languages

Conversant in Chinese. Fluent in English.

Research

Preprints and Publications

1. The stable wave front set of theta representations
with Edmund Karasiewicz and Emile Okada, (arXiv:2411.02073)
2. Hecke algebras for tame genuine principal series and local Shimura correspondence
to appear in Trans. Amer. Math. Soc., (arXiv:2405.06254)
3. Formal degrees of genuine Iwahori-spherical representations
with Ping Dong and Fan Gao, Q. J. Math. 74 (2023), no. 4, 1597-1618. (arXiv:2304.06595)

In Preparation

1. On the stable wavefront sets of genuine Iwahori-spherical representations
with Fan Gao
2. Stable wavefront sets for GL-covers of Kazhdan–Patterson or Savin types
with Fan Gao and Jiandi Zou
3. On the restriction problems of genuine Iwahori-spherical representations

PhD thesis

L-parameters for genuine principal series representations

Awards

China National Scholarship, ZJU, 2025
Lingjun Leading Scholarship, ZJU, 2022-2023

Teaching

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|---|-------------|-----|
| Representation theory of groups and algebras (Teaching Assistant) | 2024 Fall | ZJU |
| Algebra II (Teaching Assistant) | 2023 Spring | ZJU |

Conferences

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| Recent Progress on Representation Theory of Reductive Groups and Quantum Theory | 2025.7 | Tianjin, China |
| Conference on Solvable Lattice Models, Number Theory and Combinatorics | 2024.6 | Dublin, Ireland |
| National Conference on Algebra | 2023.11 | Quanzhou, China |
| Workshop on L-functions and Related Topics | 2022.8 | Zhangzhou, China |

Talks

1. "On the stable wavefront set of genuine Iwahori-spherical representations"
at the Chinese University of Hong Kong, Shenzhen 2025.11 Shenzhen, China
2. "Local Langlands correspondence for genuine principal series representations"
The 3rd Conference on Frontiers in Mathematics for PhD Students, at Peking University 2025.11 Beijing, China
3. "Type theory for genuine principal series representations"
Joint FDU-NUS-ZJU PhD Forum in Mathematics, at National University of Singapore 2025.6 Singapore