Curriculum Vitae

Lee Tae Young

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EMPLOYMENT

Binghamton University, State University of New York

Aug. 2024 -

Binghamton, New York, USA

Robert Riley Visiting Assistant Professor, Department of Mathematics and Statistics

EDUCATION

Rutgers, the State University of New Jersey

Aug. 2019 - May 2024

New Brunswick, New Jersey, USA

Ph.D. in Mathematics, Advisor: Pham Huu Tiep

KAIST: Korea Advanced Institute of Science and Technology

Mar. 2013 - Feb. 2019

Daejeon, Republic of Korea (South Korea)

B.S. in Mathematical Sciences (Magna Cum Laude)

RESEARCH INTERESTS

I am mainly interested in (finite or algebraic) group theory, representation theory and their applications in broad contexts including number theory, geometry and combinatorics. My thesis is about constructions and identifications of finite groups and representations arising in geometric and number theoretic context, namely monodromy groups of local systems. I also like to think about discrete mathematics.

Publications and Preprints

- 1. Hypergeometric Sheaves and Extraspecial groups in even characteristic, submitted. arXiv:2407.12586
- 2. Hypergeometric Sheaves and Finite General Linear Groups, Journal of Algebra 659 (2024)
- 3. A question of Katz and Tiep on representations of finite general unitary groups, Comm. Algebra 50 (2022)

Talks

1. KAIST Number Theory Seminar (Invited)

May 2024

2. AMS Special Section on Groups and Representations (Invited)

May 2024

3. Monodromy and Its Applications (12 minute "lightning talk")	Dec 2023
4. Fairfield Algebra Regional Meeting	Dec 2023
5. Rutgers Algebra Seminar	Nov 2023
6. Groups 2023: Northern Group Theory Conference (Poster Session)	Sep 2023
7. Zassenhaus Groups and Friends Conference	Jun 2023
$8.\ $ AMS Special Session on Excursions in Arithmetic Geometry, JMM 2023 (Invited Section 1) and 10^{-2}	ed) Jan 2023
Teaching Experience	
Binghamton University	
• Math 304: Linear Algebra	Fall 2024
Rutgers University	
• Math 250: Introduction to Linear Algebra (Teaching Assistant)	Fall 2023
• Directed Reading Program for undergraduates (Mentor)	Summer 2023
\bullet Math 152: Calculus II for the Mathematics and Physical Sciences (Workshop Ir	nstructor) Spring 2023
• Math 250: Introduction to Linear Algebra (Teaching Assistant)	Fall 2020
Awards	
School of Arts and Sciences Fellowship Rutgers University	Spring 2024
Silver prize, The 37th College Mathematics Competition Korean Mathematical Society	Nov 2018
Pairs 9th Place (joint), 2018 Simon-Marais Mathematics Competition Paired with Donghyun Kim	Oct 2018
Silver prize, The 36th College Mathematics Competition Korean Mathematical Society	Nov 2017
Honor Student of KAIST	Sep 2014 - Feb 2019
The National Scholarship for Science and Engineering Republic of Korea	Mar 2013 - Feb 2019