Jishen Du

jd1422@scarletmail.rutgers.edu

EDUCATION

Rutgers, The State University of New Jersey   New Jersey, the United States
Ph.D., Mathematics | Advisor: Yi-Zhi Huang   09/2021 - Present

Beijing Normal University   Beijing, China
B.S., Mathematics   09/2017 - 07/2021
one-year study in Physics   09/2016 - 07/2017

PUBLICATIONS

1. Twisted intertwining operators and tensor products of (generalized) twisted modules, with Yi-Zhi Huang, arXiv:2501.15003. (Under review)

2. Ph.D. thesis on tensor product of twisted modules and the associativity of twisted intertwining operators. (in progress)

TALKS

Towards G-crossed braided tensor category: twisted intertwining   10/19/2024
    operators, $P(z)$-compatibility, and associativity of intertwining operators
AMS Sectional Meeting, Special Session on Recent Advances in Vertex Operator Algebras   University at Albany

Towards G-crossed braided tensor category: skew symmetry   06/25/2024
    isomorphism, $P(z)$-compatibility, and associativity of intertwining operators
Vertex Algebra, Tensor Category and Related Topics   Shanghai Jiaotong University

Twisted intertwining operators and tensor products of (generalized) twisted modules   04/26/2024
Lie Group/Quantum Mathematics Seminar   Rutgers University

Integrable Highest Weight Modules, and Weyl-Kac Character Formula   10/13/2023
Graduate Algebra and Representation Theory Seminar   Rutgers University

A brief intro to BGG category and BGG resolution   03/21/2022
Graduate Algebra and Representation Theory Seminar   Rutgers University

TEACHING EXPERIENCES

——— **Instructor** ———

Math 252: Elementary Differential Equations   Rutgers University, Summer 2023

Math 250: Introductory Linear Algebra   Rutgers University, Summer 2025

——— **Teaching Assistant** ———

Math 251: Multivariable Calculus	Rutgers University, Fall 2025
Math 252: Elementary Differential Equations (TA at large)	Rutgers University, Spring 2025
Math 135: Calculus I for the Life and Social Sciences	Rutgers University, Fall 2024
Math 481: Mathematical Theory of Statistics (TA at large)	Rutgers University, Spring 2024
Math 151: Calculus I for the Mathematical and Physical Sciences	Rutgers University, Fall 2023
Math 152: Calculus II for the Mathematical and Physical Sciences	Rutgers University, Spring 2023
Math 251: Multivariable Calculus	Rutgers University, Fall 2022