

Jishen Du

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EDUCATION

Rutgers, The State University of New Jersey

Ph.D., Mathematics | Advisor: Yi-Zhi Huang

New Jersey, the United States

09/2021 - Present

Beijing Normal University

B.S., Mathematics

one-year study in Physics

Beijing, China

09/2017 - 07/2021

09/2016 - 07/2017

PUBLICATIONS

1. J. Du, Y-Z. Huang, Twisted intertwining operators and tensor products of (generalized) twisted modules, arXiv:2501.15003. (Under review)
2. Ph.D. thesis. Twisted intertwining operator, tensor product of twisted modules, and their associativity. (in progress)

TALKS

Towards G-crossed braided tensor category: twisted intertwining operators, $P(z)$-compatibility, and associativity of intertwining operators	10/19/2024
AMS Sectional Meeting, Special Session on Recent Advances in Vertex Operator Algebras	University at Albany
Towards G-crossed braided tensor category: skew symmetry isomorphism, $P(z)$-compatibility, and associativity of intertwining operators	06/25/2024
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

———— Mentor ————

Basic ∞ -category theory

Direct Reading Program, Rutgers University, Summer 2024