Xing-Chen Guo

Contact

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Education

• M. S. in Pure Mathematics (Advisor: Mao-Sheng Li)
South China University of Technology, Guangzhou, China

2023-present

Research Theme: Quantum Information Theory

• B. S. in Mathematics and Applied Mathematics
South China University of Technology, Guangzhou, China

2018 - 2022

Publications

- Application of Ramsey theory to localization of set of product states via multicopies X.-C. Guo and M.-S. Li, Eur. Phys. J. Plus 138, 50 (2023).
- Measurement-device-independent entanglement witnesses with imprecise input states X.-C. Guo and M.-S. Li, Phys. Rev. A 111, 032426 (2025).

Projects & Seminar

• Local Indistinguishability Strength of Set of Orthogonal Quantum States

2024-2027

- Participant (PI: Mao-Sheng Li)
- Funded by National Natural Science Foundation of China (General Program).
- Progress on multi-copy local discrimination of orthogonal product states [Eur. Phys. J. Plus 138, 50 (2023)].

• Detection and Its Mathematical Theory of Quantum Entanglement and Coherence

2024-2026

- Participant (PI: Mao-Sheng Li)
- Funded by Guangdong Natural Science Foundation (General Program).
- Progress on entanglement detection under imprecise devices [Phys. Rev. A 111, 032426 (2025)].

• SCUT Quantum Information & Computing Seminar

2024-present

- Participant (Organizers: Zhu-Jun Zheng & Mao-Sheng Li)
- Present frontier research papers and personal work.

Teaching Assistant

• Linear Algebra and Analytic Geometry

Fall 2024

- Offered by Department of Mathematics, South China University of Technology
 Duties: Answering questions and grading assignments.
- Probability and Statistics

Spring 2025

- Offered by Department of Mathematics, South China University of Technology
- Duties: Answering questions and grading assignments.

Awards

• Outstanding Bachelor's Thesis Award

2022

Awarded by Department of Mathematics, South China University of Technology

• Merit Student Award

2019-2020

Awarded by South China University of Technology