

Xiaobin Zhao

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RESEARCH INTERESTS

Quantum information, quantum optics, quantum metrology

EDUCATION

PhD in Computer Science, 2020 –The University of Hong Kong. Dissertation: *Amplification, Purification and Superposition of Orders in Continuous-Variable Systems*. Advisor: Giulio Chiribella

BA in Applied Physics, 2014 – Northwestern Polytechnical University (China).

PUBLICATIONS

Peer-reviewed Journals

Zhao, Xiaobin, Yuxiang Yang, and Giulio Chiribella. "Quantum Metrology with Indefinite Causal Order." *Physical Review Letters* **124**.19 (2020): 190503.

Zhao, Xiaobin, and Giulio Chiribella. "Quantum Amplification and Purification of Noisy Coherent States." *Physical Review A* **95**.4 (2017): 042303.

CONFERENCE PRESENTATIONS

2019. Xiaobin Zhao. "Advantage of Indefinite Causal Order in Quantum Metrology" QIP, Boulder, USA. (Poster)

2017. Xiaobin Zhao. "Optimal Purification of Gaussian-Modulated Thermal States" QIM, Paris, France. (Poster)

2015. Xiaobin Zhao. "Optimal Amplification Displaced Thermal States" QUPON, Vienna, Austria (Poster)

HONORS / AWARDS

Outstanding Graduate, NPU 2014

National Scholarship for Undergraduate Students, China 2012

College Scholarship for Merit Students, School of Science, NPU 2011-2013

INTERSHIP

Aviation Industry Corporation of China, 2013