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Quantum Amplifiers: Classification, Manipulation, Distillation, and Application of Quantum Steerability

> Date: 2023/02/23 (Thu) Venue: S4-625 (Online) Time: 13:00-14:30

Abstract:

Quantum amplifiers can be seen as a way to distill quantum correlation.

In this talk, I will introduce many examples of quantum amplifiers including teleportation, Bell nonlocality, and quantum memory.

Then I will introduce my recent results of quantum amplifiers on quantum steerability in which we show that the quantum amplifier for quantum steering can be always determined. Moreover, the quantum amplifier can be determined by the uncertainty principle. I will also present some concrete examples of applying quantum amplifiers to quantum steering.

