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【507】 Quantum Communication: From Random Numbers To Teleportation

Tuesday 27 August 2019 16:00 (30 minutes)

Quantum communication is one of the most advanced areas of quantum science and technology. It spans commercial devices and systems already deployed to future concepts of a quantum internet. We introduce some of the underlying concepts and targeted applications in this rapidly expanding and advancing field. We start with the simple concept of quantum random number generation and their distribution for cryptographic applications. We then discuss next-generation schemes for the distribution of entanglement, teleportation, and the development of complex communication networks.

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