Dimensional parameters of quantum communication high-voltage complete set of equipment

In this context, it is crucial to certify that a given quantum channel can reliably transmit high-dimensional quantum information. Here we develop efficient methods for the characterization of ...

After having described specific areas of research of applied quantum mechanics such as quantum information theory, quantum error correction, and quantum computing, this chapter ...

This work contributes to NIST"s efforts in quantum information science (QIS) by developing innovative quantum communications components and techniques that enable secure, high-speed data ...

In this report, we limit ourselves to the implementation of input and output passive optical components, as well as fiber index profiles, to enable better simultaneous-higher-dimensional ...

information in quantum computers may also be represented by units whose Hilbert spaces have a dimension greater than two, and these units are called qudits. Just like qubits, there are many ...

A comprehensive set of security criteria for QKD protocols, devices, key management, post- processing, and integration with quantum networks establishes a framework that promotes secure and ...

In this paper, we propose a long-distance large-scale and scalable fully-connected quantum secure direct communication (QSDC) network, which employs a double-pumped structure ...

Zan Li (China) Dynamic Spectrum Control-Based Covert Integrated Air-Ground Communication Follow

Here we report a proof-of-principle demonstration of an integrated-photonics TF-QKD network with exceptional scalability and reliability. This network includes 20 independent client-side ...

However, qudits generation, transmission, and detection is not a simple task to accomplish. This review presents the state-of-the-art on the generation, propagation, and ...

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