



Symmetry and Asymmetry in Quantum Cryptography

Guest Editor:

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Message from the Guest Editor

Dear Colleagues,

Quantum cryptography is one of the most important research fields in quantum technology; it aims at conceptually new solutions for information transfer, encoding, retrieval, processing, or security using essentially nonclassical properties of quantum states. Quantum cryptography provides information-theoretical secure private communication between remote parties. In fact, a lot of symmetries and asymmetries exist in quantum cryptography. The aim of this Special Issue is therefore to focus on these properties and to further stimulate progress in the field. We are collecting articles and short reviews contributing to the development of quantum cryptography using discrete- and continuous-variable as well as advanced hybrid approaches.

We welcome submissions on theoretical or experimental advancements in topics including, but not limited to, the following:

- Quantum key distribution (QKD);
- Quantum secret sharing (QSS);
- Quantum direct communication (QDC);
- Free-space or fiber-based quantum communication.





Editor-in-Chief

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Message from the Editor-in-Chief

Symmetry is ultimately the most important concept in natural sciences. It is not surprising then that very basic and fundamental research achievements are related to symmetry. For instance, the Nobel Prize in Physics 1979 (Glashow, Salam, Weinberg) was received for a unified symmetry description of electromagnetic and weak interactions, while the Nobel Prize in Physics 2008 (Nambu, Kobayashi, Maskawa) was received for the discovery of the mechanism of spontaneous breaking of symmetry, including CP symmetry. Our journal is named *Symmetry* and it manifests its fundamental role in nature.

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