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Quantum key distribution research and development in NEC

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Abstract

Quantum key distribution (QKD) can provide cryptographic keys that are not leaked to the third-party using the principles of quantum mechanics and is expected to be applied to many important mission-critical systems. NEC is engaged in various research and development toward the commercialization of QKD. This presentation shows overview of NEC's QKD related activities including BB84 and continuous variable (CV) QKD systems. NEC and the partners also conduct field trials of QKD in some important application areas.