

# Selection of Bit Error Rate for Quantum Communication

Abstract: This work investigates the quantum bit error rate as a function of the optical channel length for quantum communication using the three-stage multi-photon protocols.

In this work, we have presented a simple mathematical model to obtain the QBER of a polarisation encoded satellite-based quantum communication system by analysing the errors ...

We developed this protocol to include quantum entity authentication in the DSQC procedure.

Abstract: In the BB84 quantum key distribution (QKD) protocol, the communicating parties do a quantum bit error rate (QBER) test to determine whether there is an eavesdropper trying to gain information ...

de are derived and used to compute exact expressions for the bit error rate (BER). The resulting expressions are general, as they hold for an arbitrary number of reflecting elements  $N$ , and ...

03 Quantum bit error rate measurement and analysis Quantum bit error rate measurement systems are essential for evaluating the performance of quantum communication channels.

Explore the revolutionary field of quantum electronics, focusing on the significance of bit error rates and their impact on quantum computing systems.

Discover how Quantum Bit Error Rate (QBER) safeguards Quantum Key Distribution by detecting tampering and securing global communication.

Quantum Bit Error Rate (QBER) is an essential metric in evaluating the reliability and security of quantum communication systems, important for quantum technologies such as computing ...

Bit Error Rate (BER) & SNR Guide Analyze communication system performance with our interactive simulators and MATLAB tools.

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