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Quantum computing, quantum cryptography and teleportation: Is it for real?

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Abstract

In this communication I give an introduction to quantum computing and communication and explain what a quantum bit is and why a quantum computer can be faster than a classical one, what quantum teleportation is and why quantum cryptography automatically provides a mechanism for eavesdropping detection. The present experimental situation and future implementation are discussed.

Prof. Dr. Olga Timofeevskaya has worked in the area of Quantum Communication since 1998. Her book „Quantum Teleportation: an ordinary miracle“ published in 2000 is the 1st book on this subject in Russia.

Gastgeber: Prof. Dr. Jan Korvink

Alle Interessenten sind recht herzlich eingeladen.

Organisation : Prof. Dr. B. Becker / F. Schmiedle

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