

PROJECT / Quantum Secure Telecommunications QuantTel

Main Objective:

QuantTel is a project that joins the theoretical expertise of the Security and Quantum Information Group (SQIG) at IT Lisbon and the skills in quantum optics experiments of the Optical Communications group (OC-Av) at IT Aveiro to tackle new challenges in the emergent area of quantum secure telecommunications. Its scientific objectives are:

1. To design a quantum protocol for the authentication of classical messages with enhanced security and to implement the respective prototype with single photons in optical fibers and nano-fibers;
 2. To develop a quantum protocol for contract signing and to implement it in the laboratory using entangled photons.
- Furthermore, this 24 months project aims at gathering the interest and expertise in quantum telecommunications within IT in order to develop internationally-competitive research and train new human

Reference: internal, Funding: IT/LA, Start Date: 01-11-2008

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