

QSIT LECTURE

Quantum Science and Technology
National Centre of Competence in Research

Special lecture for Physics students (BSc, MSc and PhD students)
Wednesday, December 3, 2014, 9:00 h – 10:30 h,
ETH Hönggerberg, HPV G 5

Gilles Brassard, ETH Zurich and Université de Montréal

A Personal Perspective on Quantum Cryptography



Quantum Cryptography is the first near-term practical application of the emerging field of quantum information science. It enables two parties to exchange messages with provably perfect confidentiality under the nose of an eavesdropper whose computational power is unlimited and whose technology is restricted only by the accepted laws of physics. In this lecture, we shall tell the tale of the origin of Quantum Cryptography from the birth of the first idea by Wiesner in 1970 to the invention of Quantum Key Distribution in 1983, to the first prototypes and ensuing commercial ventures, to successful hacking attacks on imperfect apparatus, to exciting prospects for the future.

Host: Renato Renner, Klaus Ensslin, and Atac Imamoglu

Tea and Coffee at 8:45 h
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