

Long-term performance of the SwissQuantum quantum key distribution network in a field environment

Fri, 2012-03-30 15:56 - [Q-Essence Coordinator](#) [1] **Date:** 2011-12-01

Author(s):

D. Stucki, M. Legré, F. Buntschu, B. Clausen, N. Felber, N. Gisin, L. Henzen, P. Junod, G. Litzistorf, P. Monbaron, L. Monat, J-B. Page, D. Perroud, G. Ribordy, A. Rochas, S. Robyr, J. Tavares, R. Thew, P. Trinkler, S. Ventura, R. Voirol, N. Walenta and H. Zbinden

Reference:

New J. Phys. 13 123001 (2011)

URL:

<http://iopscience.iop.org/1367-2630/13/12/123001> [2]

In this paper, we report on the performance of the SwissQuantum quantum key distribution (QKD) network. The network was installed in the Geneva metropolitan area and ran for more than one-and-a-half years, from the end of March 2009 to the beginning of January 2011. The main goal of this experiment was to test the reliability of the quantum layer over a long period of time in a production environment. A key management layer has been developed to manage the key between the three nodes of the network. This QKD-secure network was utilized by end-users through an application layer.

- [QIPC](#) [3]
- [Q-ESSENCE](#) [4]
- [Highlight](#) [5]
- [Result](#) [6]

Source URL:

<http://qurope.eu/db/publications/long-term-performance-swissquantum-quantum-key-distribution-network-field-environmen>

Links:

[1] <http://qurope.eu/users/qessence>

[2] <http://iopscience.iop.org/1367-2630/13/12/123001>

[3] <http://qurope.eu/category/qipc/qipc>

[4] <http://qurope.eu/category/projects/ips/q-essence>

[5] <http://qurope.eu/category/attribute/highlight>

[6] <http://qurope.eu/category/attribute/result>