



**The Chinese University of Hong Kong
Non-confidential Abstract of Technology Disclosure**

Title:

Quantum key distribution over WDM Fiber Links and Quantum Cryptography with Wavelength Routing

CUHK Ref. No.:

05/ENG/190

Inventor(s):

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Patent Status:

- ◆ US Patent Pending
- ◆ PCT Application Filed

Non-confidential abstract:

Quantum key distribution over networks is a long-standing problem for practical applications. In this research, we solve this problem over current and next generation optical fiber communications networks---wavelength division multiplexing (WDM) fiber links with conventional optical communication channels. Another problem for quantum cryptography over networks is switching. In order to solve this problem, wavelength routing is employed over optical networks, which makes quantum key distribution can be implemented among specific end users with absolute security.

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