# Columbia Quantum Communication Long-Distance Optical Cable DWDM

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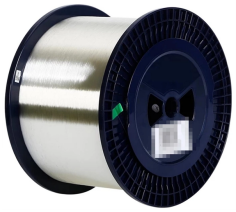
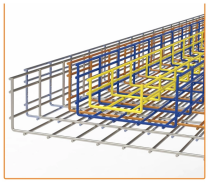


In this work, we demonstrate a fiber-optic module capable of introducing a desired amount of GVD to the quantum signal and verify its operation using an entangled photon pair at the telecom...



To the best of our knowledge, this research study is the first one to demonstrate an 800 Gbps QKD-secured optical channel along with several other Dense Wavelength Division Multiplexed (DWDM) ...


The security is based on the laws of quantum mechanics and no-cloning theorem . One major practical challenge for QKD commercialisation is its integration with dense wavelength division ...

Abstract: We demonstrate an innovative integration of DWDM and Mode-Division Mul-tiplexing, enabling multi-dimensional transmission with 8 wavelengths and 4 modes.


Our results demonstrate repeater-like quantum communication in an operational network setting, doubling the distance for practical real-world QKD implementations without cryogenic cooling.

In this paper, execution analysis of dense wavelength multiplexing network (DWDM) system has been suggested to evaluate the performance of the suggested network using BER ...

DWDM can carry various types of data, including voice, video, and text, across a single fiber optic cable without interference. This feature is beneficial for service providers offering multiple ...

Our GVD module is based on dense wavelength-division multiplexing (DWDM) technology, and it can be easily designed and operated for various quantum communication scenarios, making it a valuable ...

Utilising 16 wavelength channels simultaneously through dense wavelength-division multiplexing (DWDM), a total secure key rate of 1.57 Mbps was achieved across 201.1km of fibre ...

In this work, we demonstrate a fiber-optic module capable of introducing a desired amount of GVD to the quantum signal and verify its ...

## Contact Us

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