

Customization Process for Upgraded Quantum Communication ODN Optical Distribution Network

This paper discusses the key techniques used to implement these systems, which include polarization recovery, noise reduction, frequency up-conversion detection based on PPLN waveguide, custom ...

Combining mass-manufacturability, cost-effectiveness and high scalability of integrated photonics with long-distance quantum communication represents a viable path to large-scale quantum...

To deploy QKD networks over wide areas at low cost, an efficient approach is to integrate and multiplex them into optical data transmission networks that are being widely deployed by ...

We describe a quantum networking architecture which can provide the flexibility and scalability likely to be critical for supporting widespread deployment of quantum applications.

In this study, we review recent advancements in both QKD and access network technologies, evaluate the technical feasibility of QKD-OAN integration, and propose cost-effective ...

This paper introduces a vision for optimisation in quantum networks focused on planning their deployment in advance to determine which types of systems should be installed and where. The ...

In this paper, we do a comprehensive survey of the state-of-the-art QKD secured optical networks, which is going to shape communication networks in the coming decades.

In this study, we review recent advancements in both QKD and access network technologies, evaluate the technical feasibility of QKD-OAN ...

We developed a framework to guide the first steps of planning a quantum network using the existing optical network infrastructure and formulated it as an optimization problem (in the form of ...

This could be possible with the integration of OFC and OWC with emerging quantum communication technologies (quantum key distribution, quantum entanglement, quantum repeaters, ...

In this article an industry perspective on establishing quantum-secured channels in large-scale optical networks in operational environments will be discussed, including the vision, ...

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