Anti-tracking of fiber optic panels for quantum communication

To classically test the phase noise of the quantum channel, we split and transmit optical pulses derived from a stabilized mode-locked laser through each fiber and interfere the outputs on a ...

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

Our partner SEDI-ATI, a member of Fiber Optics Group, offers a broad range of fiber optic feedthroughs designed for cryogenic, high-vacuum quantum environments.

For decades, researchers have tried to squeeze quantum signals alongside classical signals in fiber optic cables. Quantum bits, however, are based on delicate quantum states of ...

A recently published article in Nature states that scientists have sent quantum information across a record-breaking 158 miles using ordinary computers and fiber-optic cables.

I recently had an eye-opening moment when we were setting up a quantum network and our link wasn"t behaving as expected, even though we were using top-notch fiber optic gear.

In a groundbreaking experiment, engineers at the University of Pennsylvania successfully extended quantum networking beyond the laboratory by transmitting signals over commercial fiber ...

In this study, we propose and demonstrate a network architecture that integrates a downstream quantum access net- work (DQAN) and vibration sensing in optical fibers.

In this Letter, we show that by properly accounting for these effects it is possible to devise schemes that enable unassisted quantum communication across arbitrarily long optical fibers at a ...

To overcome these challenges, we propose a fiber array architecture to independently control single-atom qubits in atom arrays for quantum computing. Each fiber channel is connected to ...

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