Low loss quantum communication pigtail

Here, we report the integration of a quantum emitter single-photon source with a wafer-scale, ultra-low loss silicon nitride photonic circuit.

Researchers at the Southern University of Science and Technology, the International Quantum Academy and other institutes in China have recently developed low-loss interconnects for linking the ...

In recent years, ultra-low loss (ULL) connectors have emerged as a solution, thanks to their benefits in minimising signal degradation by reducing losses during transmission, preserving the fidelity and ...

Enabling the future of quantum communication with high-performance fiber optic interconnects, DIAMOND delivers the reliability, low insertion loss, and stability required for cutting ...

Building a modular architecture with superconducting quantum computing chips is one of the means to achieve qubit scalability, allowing the screening, selection, replacement, and ...

Scaling is now a key challenge in superconducting quantum computing. One solution is to build modular systems in which smaller-scale quantum modules are individually constructed and ...

Here we report low-loss interconnects based on pure aluminium coaxial cables and on-chip impedance transformers featuring quality factors of up to 8.1 × 10 5, which is comparable with the...

Our Collimated Pigtail Connectors feature precision design, converting optical signals into parallel light with low insertion loss and high coupling efficiency.

These pre-terminated fiber ends, often overlooked in system designs, have become indispensable in achieving low-loss, high-reliability connections for 5G, quantum computing, and ...

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