

# Low-loss quantum communication fiber optic spectrometer

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In this work, we deliberately design and fabricate a low-loss, 800 nm-guiding CTF, which simultaneously possesses high spatial modal purity, low polarization degradation, low CD, and low...

These innovations, relying on readily available, telecom-based fiber-optic components, provide practical, scalable, and cost-effective solutions for advancing quantum photonic technologies.

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In conclusion, our results indicate high prospects for the utilization of quantum emitters as on-demand sources of single-photon in ultra-low loss,  $\leq 1$  dB/m, photonic integrated circuits, ...

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

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In this paper, we theoretically and experimentally demonstrate an AI-assisted MMF spectrometer, and examine the limits of the method. The resolution of the spectrometer reached 0.1 ...

In this letter, we propose and demonstrate a novel approach using hollow-core fibers (HCFs) with widely separated low-loss windows to transmit strong classical light at 1550 nm alongside QD single ...

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This work presents a compact spectrometer using acoustic Brillouin scattering on a hybrid chip, achieving a 0.56 nm resolution in a 1 mm waveguide without an optical pump.

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