

## Customization Process for Upgraded Quantum Communication Fiber Array



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By uniting fiber and free-space links with scalable hardware and open protocols, QuANTUM offers a basis that could adapt to future hybrid quantum networks, supporting both current ...



Highly parallel gate operations remains a challenge. Here, we propose a fiber array architecture for atom quantum computing capable of fully independent control of individual atoms. The trapping and ...



Discovering a range of custom optical assemblies, including 2-dimensional fiber array, linear fiber array, PM fiber devices, high-temperature optical components, and optical switch for coherent optical ...



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In this paper, we analyze and discuss potential pathways for scaling up neutral-atom quantum computers beyond a single module (Fig. 1) from the perspectives of hardware development ...



A scalable, modular hardware platform can integrate thousands of interconnected qubits onto a customized integrated circuit. This “quantum-system-on-chip” (QSoC) architecture enables ...



Neutral-atom quantum computers are having a moment. A new Nature Communications study shows a fiber array architecture that locks a tightly focused trap beam and a qubit-control ...



M2 Optics supports quantum computing OEMs, research labs, and system integrators with customized Fiber Lab network and latency simulation solutions that replicate the exact fiber links used between ...



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



We investigated and tested the setup needed to share quantum information across a metropolitan network based on single photon communication. First, we characterised the new set of super ...

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