

Quantum Communication Lithuanian Outdoor Integrated Power Supply with Low Temperature Resistance

For large-scale power delivery quantum applications, several potential architectural approaches have been explored, taking into account thermal load, power loss, heating, coupling ...

This work contributes to NIST's efforts in quantum information science (QIS) by developing innovative quantum communications components and techniques that enable secure, high-speed data ...

Here, we summarize the current state of quantum communications and networking methods and platforms and specifically discuss their existing and ...

To develop a sustainable quantum technology ecosystem in Lithuania, creating favorable conditions for business creation and scientific research, ensuring advanced technological development of the country.

In the quest to reach beyond the performance of CMOS chips, operating integrated circuits at cryogenic temperatures can offer unique advantages. For instance, cryogenic computing ...

Researchers developed a room-temperature quantum communication device, removing the need for super-cooling and enhancing practical applications. The device utilizes twisted light from ...

Quantum technologies for data center facility: Quantum technologies such as cryptography, sensing, and communication are considered essential enablers for the next generation of data center operations.

Here, we summarize the current state of quantum communications and networking methods and platforms and specifically discuss their existing and potential applications in the energy ...

We intend to focus next on integrating wireless interconnects with cryo-CMOS electronic systems for quantum computing, high-sensitivity sensors and imaging arrays, for example, to better...

The objective of this Perspective is to review the recent advances made towards developing integrated quantum photonic technologies, as well as the current challenges and future ...

As a key participant in the CEF-Digital EuroQCI initiative, Lithuania serves as a critical hub connecting the Baltic region to the wider European quantum network. Our involvement spans ...

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