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Quantum Communications In Space

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Quantum communication, provides qualitatively new concepts, which are much more powerful than their classical

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quantum communications to a space infrastructure. It also develops physical and technological concepts specifically designed for a space environment. After reviewing the basics of physics of quantum information we characterize and

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compare quantum communications and classical optical communications. We discuss how to produce,

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Quantum communications and sensing,
along with computing and information

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security, offer new capabilities based on sophisticated quantum 2.0 technologies. Quantum stands to propel us into the next technology revolution, similar to how transistors in the 1940s and the laser in the 1960s contributed to the revolution of electronics and information.

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*Revolutionizing Space Communications
with Quantum 2.0 ...*

Quantum communication provides qualitatively new concepts, which are much more powerful than their classical counterparts. This report is a detailed study of the feasibility for adopting the concepts of fundamental quantum physics

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and quantum communications to a space infrastructure.

*Quantum communication in space -
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Space-QUEST will validate the key technologies of a quantum communication transceiver (e.g. entangled photon source,

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weak pulse laser source, single photon counting modules) and will accomplish the first-ever demonstration in space of quantum-based telecom applications (e.g. QKD) and fundamental tests on quantum physics (e.g. Bell-type experiment at distances over 1000 km).

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Quantum communications at ESA:

Towards a space experiment ...

NICT developed the world's smallest and lightest quantum communication transmitter (SOTA) onboard the microsatellite SOCRATES. We succeeded in the demonstration of the first quantum communication...

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*World's first demonstration of space
quantum communication ...*

Is the present quantum technology, with few qubits, sufficient for communication from starship to earth for landing on Mars and mission control? The present quantum technology is not only incapable of but

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also rarely built for purposes of communication. Like with every exciting technology, scientist will run experiments and work out theories about this though.

spacex - Quantum technology for starship communications ...

Since the seminal work of Bennett and

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Brassard on transferring quantum states and cryptographic keys through 0.3-meter-long free-space air , quantum communication has become an ultimate approach for the goal of unconditional communication security.

OSA / Towards quantum communications

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in free-space seawater

In 2018 NASA initiated the development of a National Space Quantum Laboratory that would use lasers on the International Space Station to achieve secure communications between ground stations. In...

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*China Reaches New Milestone in Space-
Based Quantum ...*

Quantum entanglement is the main resource for quantum communication. The randomness and correlations inherent in quantum entanglement can be exploited to enable entanglement-based quantum cryptography², quantum teleportation³,

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quantum repeater³⁰ and distributed quantum computing³¹. It is therefore of practical interest to see whether

*Towards Quantum Communication in
Free-Space Seawater*

These are the fiber and free-space quantum cryptography apparatus used for

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Secure exchange of keys. Beyond this state of the art, various quantum communication schemes are being studied including entangled state key exchange quantum dense coding, state teleportation, and entanglement swapping.

Quantum communications in space,

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Quantum Space has been founded to provide a wide range of business solutions in the domain of ERP. Our customers are companies of all sizes ranging from startups to large enterprises, who realize that they need integrated professional business solutions, proper communication

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channels and streamlined business operations.

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Quantum communication takes advantage of properties unique to the physics of quantum mechanics, which opens new paradigms for communication that cannot

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As realized by today's classical (non-quantum) communication. One of the key properties of quantum communications is the security it provides—it has the ability to detect eavesdropping.

*How Aerospace Is Leading the
Development of Quantum ...*

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Back in 2015, Italy performed the first quantum satellite transmission in history with an experiment led by Paolo Villoresi, University of Padua, in collaboration with ASI's Space Geodesy Centre in Matera, which allowed secure information to be sent a record distance of 1,700 km by sending a beam of photons to space and

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back to Earth in a nanosecond.

Quantum Communication in Space: a new record for Italy

Quantum communication is a field of applied quantum physics that utilizes quantum information and quantum teleportation. The teleportation is possible

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Due to the application of quantum mechanics. Quantum communication allows almost instant transfer of the encrypted information.

*BRICS International Quantum
Communications Research ...*

Long-distance communication via

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entanglement: China created a record-breaking communications link using entangled particles between satellites and an earth station. Potential threat : Quantum ...

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