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China is in the vanguard of the push toward a quantum

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internet. It launched a dedicated quantum communications satellite called Micius a few years ago, and in 2017 the satellite helped stage the...

Explainer: What is quantum communication? | MIT Technology ...

Traditional communications satellites used radio waves to send signals. In contrast, the

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quantum

Communication

satellite uses pairs of entangled photons, or light particles, whose properties remain...

China Reports Progress in Ultra-Secure Satellite ...

Until now, this had never been done via satellite or at such great distances. Again, none of the communication went through Micius. The

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satellite provided entangled photons as a convenient resource...

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China's quantum satellite enables first totally secure

...

Named after the ancient Chinese philosopher also known as Mozi, Micius is the world's first quantum communications satellite and has, for several years, been at the forefront of

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Quantum
communication.
Scientists have now
reported using this
technology to reach a
major milestone: long-
range secure
communication you
could trust even
without ...

China's Quantum Satellite Enables Perfectly Secure ...

Quantum
communication uses
photons to securely
distribute a 'secret key'

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Quantum Communication
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to allow the exchange of encrypted messages. Previous work has demonstrated quantum key distribution along up to 404 kilometres of coiled optical fibre in a laboratory, or from a satellite to a ground station up to 1,200 kilometres away.

China Uses Quantum Physics for Secure Long-range ...

SPACING OUT Quantum

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Quantum communication through space is possible thanks to a Chinese satellite that beams particles of light down to telescopes like this one in Xinglong, China (shown here tracking the...

A quantum communications satellite proved its potential in ...

Abstract: The recent launch of the Micius quantum-enabled

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satellite heralds a major step forward for long-range quantum communication. Using single-photon discrete-variable quantum states, this exciting new development proves beyond any doubt that all of the quantum protocols previously deployed over limited ranges in terrestrial experiments can in fact be translated to global distances via the use of

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low-orbit satellites.

Communication

**Satellite-Based
Continuous-Variable
Quantum**

Communications ...

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

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Quantum
communication...

Communication

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

Quantum
communication
schemes over optical
networks necessarily
suffer from
transmission losses
and errors. For this
reason, in order to
achieve the vision of
secure quantum
communication over ...

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**Quantum network
routing and local
complementation |
npj ...**

The first quantum communication satellite -- called Micius in English -- was launched in 2016. The satellite was named after a famous ancient Chinese scientist and philosopher, who around 400 B.C. was the first person to document the

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operating principle of a pinhole camera, including a description of the straight-line propagation of light.

Is China the Leader in Quantum Communications? | Inside ...

Quantum encryption uses the principle of entanglement to facilitate communication that is totally safe against eavesdropping, let

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Quantum
Communication
via The Alphasat
alone decryption, by a
third party. By
producing pairs of
entangled photons,
QUESS will allow
ground stations
separated by many
thousands of
kilometres to establish
secure quantum
channels.

**Quantum
Experiments at
Space Scale -
Wikipedia**

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Quantum
communication
through satellite
transmission is, in
simple terms, the
mixture of two distinct
technological realms:
quantum mechanics-
based communication
and satellite
communication...

**Not Only China:
Quantum Satellite
Communication on
the ...**

Until now, this had
never been done via

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satellite or at such great distances. Again, none of the communication went through Micius. The satellite provided entangled photons as a convenient resource for the quantum cryptography and the two ground stations then used them according to their agreed protocol.

China's quantum satellite enables

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**Quantum
first totally secure**

...Communication

The world's first portable ground station for sending and receiving secure quantum

communications is up and running. The station has successfully connected to China's Quantum Science Satellite,...

China has developed the world's first mobile quantum ...

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Communication
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In the middle of the night, invisible to anyone but special telescopes in two Chinese observatories, satellite Micius sends particles of light to Earth to establish the world's most secure communication link. Named after the ancient Chinese philosopher also known as Mozi, Micius is the world's first quantum communications satellite and has, for

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several years, been at
the forefront of
quantum encryption.

**China's quantum
satellite, Micius,
enables first totally**

...

The Quantum Science
Satellite (QSS) provides
the first space-based
platform with long-
distance satellite and
ground quantum
channel, carrying out a
series of tests to
examine fundamental

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quantum principles and
communications
protocols in a full-sized
space-to-ground
architecture.

Quantum Science Satellite - Spacecraft & Satellites

Sky Perfect JSAT (JSAT)
is considering a long-
term play in several
new markets, including
the Earth Observation
(EO) and data analytics
markets, JSAT

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Executive Officer and Group President of Global Business Mitsutoshi Akao told Via Satellite.JSAT, Asia's largest satellite operator based in Japan, is working closely with U.S.-based imagery analytics companies Planet and Orbital Insights to ...

JSAT President Says Company is Exploring Opportunities in ...

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Until now, this had never been done via satellite or at such great distances. Again, none of the communication went through Micius. The satellite provided entangled photons as a convenient resource for the quantum cryptography and the two ground stations then used them according to their agreed protocol.

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Quantum
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...
Loss

China's quantum satellite enables first totally secure

QUESS is also designed to establish "hack-proof" quantum communications by transmitting uncrackable keys from space to the ground, as well as test quantum teleportation with a ground station in Ali, Tibet. Pan revealed they also want to see if it's possible to

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distribute

entanglement between
the Earth and the Moon
in future.

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