

# Satellite Quantum Communication Via The Alphasat Laser

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## BRIDGET SYDNEE

*China Reaches New Milestone in Space-Based Quantum ...*  
 Satellite Quantum Communication Via TheChina launched the first-ever quantum-communication satellite, known as QUESS, atop a Long March-2D rocket from the Jiuquan Satellite Launch Center on Aug. 15, 2016 (Aug. 15 local time).Quantum communication takes a major leap with satellite ...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 quantum principles and communications protocols in a full-sized space-to-ground architecture.Satellite Quantum Communication Via The Alphasat LaserSatellite Quantum Communication . via the Alphasat Laser Communication Terminal. Quantum signals from 36 thousand kilometers above Earth. Dominique Elser, Kevin Günthner, Imran Khan, Birgit Stiller, Christoph Marquardt, Gerd Leuchs . Quantum Information Processing Group (QIV) Max Planck Institute for the Science of Light (MPL) Erlangen, GermanySatellite Quantum Communication via the Alphasat Laser ...Named after the ancient Chinese philosopher also known as Mozi, Micius is the world's first quantum communications satellite and has, ... 1,200km apart via special telescopes.China's quantum satellite enables first totally secure ...Quantum communication through satellite transmission is, in simple terms, the mixture of two distinct technological realms: quantum mechanics-based communication and satellite communication (SATCOM).Not Only China: Quantum Satellite Communication on the ...A quantum communication ground station in Xinglong, in northern China, in 2016, communicating with the quantum satellite Micius, the world's first. Credit... Jin Liwang/Xinhua, via Alamy Live NewsChina Reports Progress in Ultra-Secure Satellite ...In August of 2016, the University of Science and Technology of China launched a large (635 kg) quantum communication satellite and performed a quantum-entanglement experiment with two ground ...World's first demonstration of space quantum communication ...Photo taken on Nov. 26, 2016 shows a satellite-to-earth link established between quantum satellite "Micius" and the quantum communication ground station in Xinglong, north China's Hebei Province.China Reaches New Milestone in Space-Based Quantum ...It launched a dedicated quantum communications satellite called Micius a few years ago, and in 2017 the satellite helped stage the world's first intercontinental, QKD-secured video conference ...Explainer: What is quantum communication? | MIT Technology ...Quantum communication in space. 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 operating principle of a pinhole camera, including a description of the straight ...ls

China the Leader in Quantum Communications? | Inside ...Quantum Communications via satellite offers a paradigm shift in our ability to deploy quantum information protocols over very large scales, e.g. [1]-[4]. Propagation through the at-mosphere to and from LEO satellites can overcome the scourge of the roughly 100km limited distance that plagues point-to-Quantum Communications via Satellite with Photon SubtractionBy harnessing quantum effects, we nowadays can use encryption that is in principle proven to withstand any conceivable attack. These fascinating quantum features have been implemented in metropolitan quantum networks around the world. In order to interconnect such networks over long distances, optical satellite communication is the method of choice.Satellite Quantum Communication via the Alphasat Laser ...A quantum communications satellite proved its potential in 2017 Intercontinental video call sets distance record for cryptography via entangled photonsA quantum communications satellite proved its potential in ...Chinese satellite uses quantum cryptography for secure videoconference between continents Quantum cryptography has never been possible over long distances. But the first quantum communications ...Chinese satellite uses quantum cryptography for secure ...Sky Perfect JSAT (JSAT) is considering a long-term play in several new markets, including the Earth Observation (EO) and data analytics markets, JSAT 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 ... - Via SatelliteChina launched the first-ever quantum-communication satellite, known as QUESS, atop a Long March-2D rocket from the Jiuquan Satellite Launch Center on Aug. 15, 2016 (Aug. 15 local time).China Launches Pioneering 'Hack-Proof' Quantum ...Figure 1: Villoresi and co-workers have shown that the delicate polarization states of photons, which are needed for quantum-encrypted communication, can be transmitted via a laser beam (yellow arrows) from a distant satellite (transmitter) down to a telescope on Earth (receiver), where they are faithfully detected. Villoresi and co-workers have shown that the delicate polarization states of ...Physics - Sending Quantum Messages Through SpaceNamed 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 quantum encryption. Scientists have now reported using this technology to reach a major milestone: long-range secure communication you could trust even without trusting the satellite it runs through.China's Quantum Satellite Enables Perfectly Secure ...Micius is the world's first quantum communications satellite and has been at the forefront of quantum encryption. Image credit: ... 1,200km apart via special telescopes. By harnessing quantum effects, we nowadays can use encryption

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*Quantum Communications via Satellite with Photon Subtraction*

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

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A quantum communication ground station in Xinglong, in northern China, in 2016, communicating with the quantum satellite Micius, the world's first. Credit... Jin Liwang/Xinhua, via Alamy Live News

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**China Reports Progress in Ultra-Secure Satellite ...**

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**Quantum communication takes a major leap with satellite**

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

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*JSAT President Says Company is Exploring ... - Via Satellite*

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Satellite Quantum Communication . via the Alphasat Laser Communication Terminal. Quantum signals from 36 thousand kilometers above Earth. Dominique Elser, Kevin Günthner, Imran Khan, Birgit Stiller, Christoph Marquardt, Gerd Leuchs . Quantum Information Processing Group (QIV) Max Planck Institute for the Science of Light (MPL) Erlangen, Germany

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