

Satellite Quantum Communication Via The Alphasat Laser

Laser communication in space Communication may be fully in space (an inter-satellite laser Laser communication in space is the use of free-space optical communication in outer space. Communication may be fully in space (an inter-satellite laser link) or in a ground-to-satellite or satellite-to-ground application. Laser communication in space is the use of free-space optical communication in outer space. The main advantage of using laser communications over radio waves is increased bandwidth, enabling the transfer of more data in less time

In outer space, the communication range of free-space optical communication is currently of the order of hundreds of thousands of kilometers. Laser-based optical communication has been demonstrated between the Earth and Moon and it has the potential to bridge interplanetary distances of millions of kilometers, using optical telescopes as beam expanders.

2013 in spaceflight 5m/s orbit change and 10 debris objects have now been cataloged" (Tweet). Dec 23, the satellite made a 1. Retrieved 8 February 2023 – via Twitter. Orbital Science also launched its first spacecraft, Cygnus, that docked with the International Space Station in late September 2013. Berger In 2013, the maiden spaceflight of the Orbital Sciences' Antares launch vehicle, designated A-ONE, took place on 13 April

The project consists of the satellite Micius, or Mozi (Chinese: 墨子), after the ancient Chinese philosopher, operated by the Chinese Academy of Sciences, as well as ground stations in China. The University of Vienna and the Austrian Academy of Sciences are running the satellite's European receiving stations. The satellite conducted Space-Earth quantum key distribution (Chinese: 量子密钥分发) experiments, facilitated by laser communications experiment carried on Tiangong-2 space laboratory module. A staple of the ESA's Science Doctrine is the Cosmic Vision Programme, a series of space science missions chosen by ESA to launch through competitions, similar to NASA's Discovery and New Frontiers programmes. It follows the Horizon 2000 and Horizon 2000+ programmes which launched notable missions such as Huygens (Titan lander), Rosetta (comet orbiter and lander), and Gaia (astrometry telescope). These missions are divided into two categories: "Sun and Solar System", space probes studying the Solar System (eg... A total of 81 orbital launches were attempted in 2013, of which 77 were successful, one was partially successful and three were failures. The year also saw eleven EVAs by ISS astronauts. The majority of the year's orbital launches were conducted by Russia, the United States and China, with 31, 19 and 15 launches respectively.

List of European Space Agency programmes and missions S. NASA, Japanese JAXA, Chinese CNSA, as well as space agencies of ESA member states (eg. French CNES, Italian ASI, German DLR, Polish POLSA). future – advanced laser-based satellite communication system Q-Design, future – joint ESA-Hispasat project for delivery of quantum keys from GEO and LEO The European Space Agency (ESA) operates a number of space missions, both individually and in collaborations with other space agencies such as U

Quantum Experiments at Space Scale The US Defense Advanced Research Projects Agency (DARPA) launched the Quiness macroscopic Quantum Experiments at Space Scale (QUESS; Chinese: 量子科学实验卫星; pinyin: Liàngǐ kēxué shíyàn wèixīng; lit. QUESS was launched on 15 August 2016. 'Quantum Science Experiment Satellite'), is a Chinese research project in the field of quantum physics. signals from the geostationary Alphasat Laser Communication Terminal

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