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Spacebased Quantum Communications

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Quantum Key Distribution (QKD) protocols have attracted a lot of attention since their first proposal in 1984. In the last decade, many implementations of different protocols have been performed worldwide. However, a large-scale network has not yet been achieved. In this work, a miniaturized and scalable system is design and tested in order to be used for practical applications. For example, the development of a quantum payload for a CubeSat to establish a ground-to-satellite quantum communication device.

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