

Description of Research Project

The overall goal of the CHOMPTT (CubeSat Handling of Multisystem Precision Time Transfer) mission is to synchronize an atomic clock on a CubeSat with one on the ground with an accuracy of 200 picoseconds by exchanging short laser pulses between the two (emitted from the ground, and reflected by a CubeSat retro-reflector).

The laser ground station is operated by the staff of the University of Florida. The laser is owned by University of Florida and its wavelength is 1064 nm. It is pulsed at 50 Hz with 2.5 ns pulse width.

The Experimental License requested, is necessary to authorize radio transmission of data from the CHOMPTT satellite.