



# Inter-Satellite Communication Testing (ZfT – Space, Bachelor/Master Thesis)

## **Motivation**

The aim of this master thesis is the development of an inter-satellite communication testbed. Formations of multiple small satellites (TOM, NetSat, CloudCT) will be the target platform of the proposed hardware.

## **Tasks**

- Research, comparison and selection of existing test procedures
- Definition of HW/SW requirements (within CubeSat constraints)
- Examination of mission requirements for NetSat, TOM, and CloudCT
- Testbed and procedure design
- Implementation, evaluation, and application of testbed
- Summarization of results

## **Experience**

- Programming (required)
- Electronics (useful)
- Communications (useful)
- Experience with Radios/ADC+DAC/Antennas (useful)

## **Contacts**

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