

Master Thesis:

Demonstration of high-speed wireless communication at THz frequencies

The increasing demand for broadband wireless data links cannot be satisfied with conventional technologies. The mm-wave and terahertz (THz) frequency band is an attractive solution for high-speed wireless communication. To generate high quality THz signals photonic techniques are frequently used. The goal of this thesis is to demonstrate the huge potential of photonic techniques also on the receiver side.

Your tasks:

- Investigate new concepts for high-speed wireless data transmission using
 - State-of-the art optical communication equipment,
 - high-speed plasmonic devices,
 - and advanced signal processing.

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