

Forschungspraxis

Strong Coupling Multimode Fibers

Space-division multiplexing (SDM), which consists in exploiting multimode (MMF) or multicore fibers instead of single mode ones, is one of the future architectures to increase data rates and network planning flexibility. A desired working condition for SDM is the so called strong-coupling linear regime, which is however not intrinsically achievable in common MMFs. With this topic, the student has the chance to investigate if it would be achievable with some new design. If you are curious about it, just send a mail to paolo.carniello@tum.de.

Prerequisites

Basics of Optical Communication Systems (see <https://www.ce.cit.tum.de/en/Int/teaching/lectures/optical-communication-systems/>)

Contact

paolo.carniello@tum.de

Advisors

Ulrike Höfler, Paolo Carniello