

Master's Thesis

# SDM for Fiber-Optic Links with Direct Detection

Two work is two-fold:

- Physically consistent modelling of space division multiplexing (SDM) over a short-reach multimode fiber, including direct detection (DD) per mode.
- a) Analysis of achievable rates, simple upper and lower bounds on capacity for SDM with DD.
- b) (MIMO) Equalization for SDM with DD.

## Advisors

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