Characterization of fiber and volume Bragg gratings

Ultrafast Optics – Prof. Stefan Nolte

Topic:

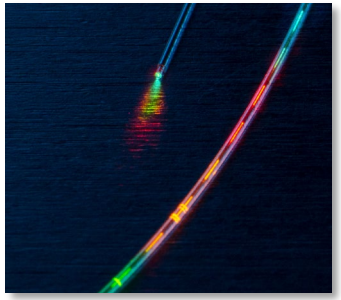
Femtosecond lasers write Bragg gratings as wavelength-selective mirrors in fibers and glasses. Applications range from quantum communication to high-power lasers.

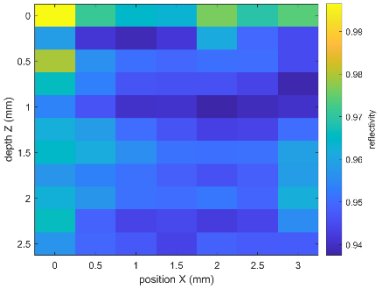
Research Focus:

Controlling the beam quality and the spectral and dispersive properties is essential for the use of gratings in laser setups.

Tasks:

- Characterization of the spectral properties of fiber and volume Bragg gratings for homogeneity and period stability
- Independent measurements, further development of setups and analysis of results





Scientific Profile

Basic research	Applied research
Lab work	Simulation
New setup	Tested setup

Language German & English

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