

Towards a monolithic, multi-gigahertz mode-locked Ti:Sa laser

Thursday, 1 September 2022 12:00 (2 hours)

We demonstrate a design for a monolithic, multi-gigahertz soft-aperture Kerr-lens mode-locked Ti:Sa laser. First experiments did not show mode-locking but cw laser operation with power fluctuations of less than 0.04% rms. We discuss possible obstacles to mode-locking in monolithic lasers like spatial-hole burning or a standing-wave of the pump beam.

Primary authors: FIEHLER, Torben (Münster University of Applied Sciences, Steinfurt, Germany); WIT-TROCK, Ulrich (Münster University of Applied Sciences, Steinfurt, Germany)

Presenter: FIEHLER, Torben (Münster University of Applied Sciences, Steinfurt, Germany)

Session Classification: Lunch and Poster Session 2