

## 937 W Thulium:silica fiber MOPA operating at 2036 nm

*Tuesday, 30 August 2022 18:00 (15 minutes)*

We present our latest results in power scaling in the 2  $\mu\text{m}$  region. The all-fiber laser system is a simple MOPA configuration composed of a seed laser and a high power amplifier. More than 900 W of output power at 2036 nm are demonstrated with a diffraction limited beam quality.

**Primary authors:** ROMANO, Clément (Fraunhofer IOSB (Institute of Optronics, System Technologies and Image Exploitation), Ettlingen, Germany); PANITZEK, Dieter (Fraunhofer IOSB (Institute of Optronics, System Technologies and Image Exploitation), Ettlingen, Germany); LORENZ, Dominik (Fraunhofer IOSB (Institute of Optronics, System Technologies and Image Exploitation), Ettlingen, Germany); FORSTER, Patrick (Fraunhofer IOSB (Institute of Optronics, System Technologies and Image Exploitation), Ettlingen, Germany); EICHHORN, Marc (Fraunhofer IOSB (Institute of Optronics, System Technologies and Image Exploitation), Ettlingen, Germany); KIELECK, Christelle (Fraunhofer IOSB (Institute of Optronics, System Technologies and Image Exploitation), Ettlingen, Germany)

**Presenter:** ROMANO, Clément (Fraunhofer IOSB (Institute of Optronics, System Technologies and Image Exploitation), Ettlingen, Germany)

**Session Classification:** FWD 2 Thulium lasers and amplifiers