

# Clocklaser

## ECDL and stabilization

Lasersystem downstairs

## Taperea Amplifier (upstairs)

### Typical power values

- Seedpower: min 10 mW
- Outputpower: 800 mW @ 2.2 A
- Max outputpower related to the datasheet: 1.5 W @ 3 A

The system was build by Sina Malobabic and is described in her diplomathesis.

- EYP-TPA-0915-01500-3006-CMT03-0000

## SHG

### Typical power values

- Outputower: ~ 120 mW
- Power transfered through the fiber: 20 mW
- Power behind the lattice mirror: ~7 - 8 mW

SHG Photodiode is saturated for full Inputpower.

- SHG beamprofil has some additional "spots" on one side
- SHG beam direction of the blue beam changes with the Inputpower → Adjust at maximal power.

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