

# Jour Fixe

NJ, PG, WFP, kHz

## Atomslab

- TiSa SHG
  - Toptica does not tell anything about the waist in the cavity
  - Tried different incoupling lenses, but ended up to either end of the alignment
    - 1.3 W @  $f=100\text{mm}$
  - Outcoupling beam cant kept symmetrically
    - Probably first collimation lense not perfectly collimating → You can't get the beam symmetrical over all beampath with the prism
      - It is crucial, to have the beam well collimated, since you can't compensate for an astigmatism with the prism.
- Build a spare laser for L4 but in Littrow configuration
- SWAP experiments
  - With SWAP light → Number of atoms still go down ( $7.5\text{ }\mu\text{W}$ , 20 MHz detuned)
  - Going closer to resonance, line becomes narrower
  - Atomcount in the DT are low: TMOT?
- Quench
  - Power optimized: Back to 40 mW infront of fiber
  - Now working on frequency stabilization and tuning it to resonance

## Reslab

- SS + NJ got the comb back working
  - Good modelock point
- Next: Coupling to new PCF

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Last update: 2020/11/23 12:03

