

Jour Fixe

Members in attendance: NJ, SS, kHz, DF, WFP, PG

Atom Lab:

- Triplet lasers are turned on and readjusted. Still some problems with laser 4 frequency alignment.
- Ti:Sa readjusted with the cavity mirrors, and maximum power achieved 1.17 W after isolator. Working right now on adjusting to the SHG.
- Quench Laser:
 - Had problems with SHG crystal temperature controller. Now seems to work well again.

Resonator Lab:

- Everything has been ordered for the new lab PC.
- Also ordered the stuff from Thorlabs to align the PCF (translation stages and such).
- We received a software from K+K which can allow for getting alerts if the counter frequencies deviate from their setpoint by a certain margin.
- For the metamirror project, found modes in the setup with the reference mirrors for first time. What helped was switching to a new laser which allowed software scanning of its piezo.
- The counters allow for LAN connectivity which could make it possible to run different measurements from different computers. But unfortunately devices cannot be allowed directly on institute network. Therefore a “magnesium lab network” can be setup which would allow magnesium computers to access the counters via a raspberry pi in between. Possible HiWi job, but not extremely urgent.

Next meeting: 03.02.2020

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