

# Frequency Offset Locking - To do list

## ~~Week: Dec 8-12~~

### ~~Dec 8~~

- ~~Check Frequency Counter (FC) module~~
- ~~-configuration~~
- ~~-scripts~~
- ~~-readout~~

### ~~Dec 9~~

- ~~Mount FC module on rack~~
- ~~-power supply~~
- ~~Expected delivery of Fiber chassis~~
- ~~-Add connectors and mount fiber couplers~~

### ~~Dec 10~~

- ~~PSL table~~
- ~~-Optical layout modifications~~
- ~~Fiber chassis~~
- ~~-Add connectors and mount fiber couplers~~

### ~~Dec 11~~

- ~~PSL table~~
- ~~-optical layout modifications~~

### ~~Dec 12~~

- ~~PSL table~~
- ~~- beam waist measurement & telescope design~~
- ~~- install telescope~~
- ~~- install fiber chassis in PSL table enclosure~~

## Week: Dec 15 -19

### Dec 15

- End laser temperature actuation calibration
- Check the earlier calibration done in summer and redo it if necessary.

### Dec 16

- Y end table
- Optical layout modifications : replace the ND filter with a beam splitter and dump the extra power appropriately)
- Detect Y + PSL beat note

### Dec 17

- X end table
- Optical layout modifications (lay out the telescope to couple light into the fiber)
- Detect X + PSL beat note

### Dec 18-19

- PID loop design
- Run RF cables between PD on PSL table to FC module on IOO rack.
- Edit scripts from summer and implement PID loop.