

MIF Status Report

Yuta Michimura

Department of Physics, University of Tokyo

on behalf of the Main Interferometer subgroup

Updates from F2F Dec 2016

- Installed all the remaining output optical tables
TRX ([klog #2531](#))
TRY ([klog #2538](#))
POS/AS ([klog #2625](#))
- Updated mirror actuator noise/range modeling
([JGW-T153453](#), [JGW-G1706333](#))
- Optical layout around OFI and OMC almost fixed
([JGW-T1706334](#))
- Cross-subgroup request of DC QPD and its whitening filter chassis to AEL ([DCQPDLList wiki](#), [DCQPDDriverList wiki](#))

YOU can contribute

- RF PD / QPD characterization ★★
- Electronics and cabling diagram ★
- Digital system (in collaboration with CAL?) ★★
- Better interferometer modeling for arm length stabilization (green lock) and intermediate configurations ★★★★★
- RF generation scheme, RF AM scheme ★★★
- Fabrication of AS optics (OMC, OFI, OMMT) ★★★
- Initial alignment planning ★★
- In-vacuum optics/electronics design ★★

Roughly in the order of priority.

Items with many stars are highly recommended.

Contact me if interested

- 道村唯太 Yuta Michimura
- michimura@granite.phys.s.u-tokyo.ac.jp

