

Summary of Production and Installation (3)

**Y.Honda on behalf of T.Takahashi
2006/Jun./01
ATF2 meeting**

Feedback and feedforward

- Feedback
 - FONT4 continues R&D of digital feedback system
 - Jun. 2006 PCB analogue processor
 - Dec. 2006, Mar./Apr. 2007 new amplifier and Closed-loop test
 - FONT5 aims to stabilize ILC-like many bunches
 - depends on fast extraction kicker development
- Feedforward
 - what to stabilize should be specified
 - dominant source of jitter (kicker or DR)

Laser wire

- Laser system
 - location and size for laser hut was suggested
 - laser transport system and collision station idea were proposed
- Detector
 - collimator for Shintake monitor can be a background source
- Beam
 - possible roll?

Shintake monitor

- Optics test and upgrade
 - under testing at u. tokyo
 - fringe monitor device, stabilization with off axis interferometer
- Laser system
 - laser hut near IP was requested
- Detector
 - collimator for H and V were requested
 - 2~3m long space behind the dump was requested for the detector

Cavity type beam size monitor

- Alternative (backup) solution of the Shintake monitor
 - advantage
 - cavity guarantees the overlap of optical path
 - stability of the fringe
 - disadvantage
 - laser power and cavity control
- Just started thinking the conceptual idea