# Summary of IP configuration session

# Philip Bambade LAL-Orsay

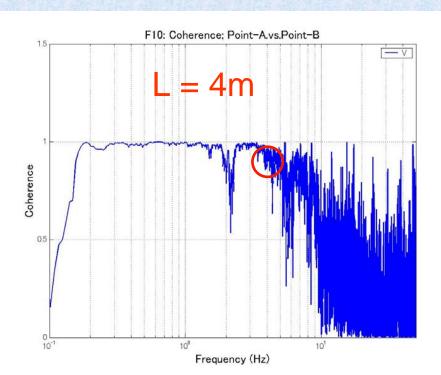
T.Kume, R.Sugahara, B.Bolzon, A.Jérémie, D.Urner

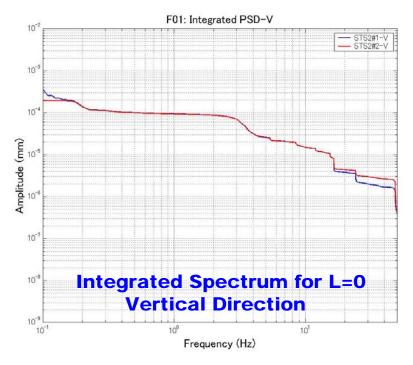
3<sup>rd</sup> ATF2 project meeting KEK, 20 December 2006

# Floor Movement Measurement at ATF Ring

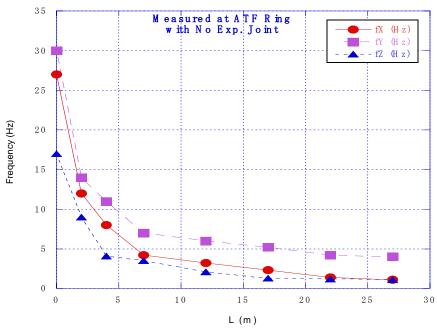
R. Sugahara, M. Masuzawa, H. Yamaoka

Measured on October 31, 2006



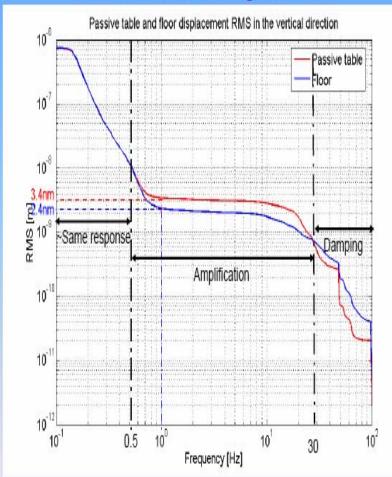


#### Coherency Length



# 2. Vibrations of the passive table

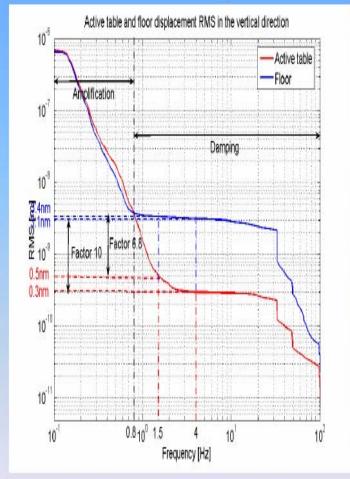
#### Vertical direction: Integrated RMS



- √ Below 0.5Hz: No amplification or damping on the table
- ✓ Above 0.5Hz: Amplification and damping begins only above ~30Hz

## 3. Vibrations of the active table

#### Vertical direction: integrated RMS



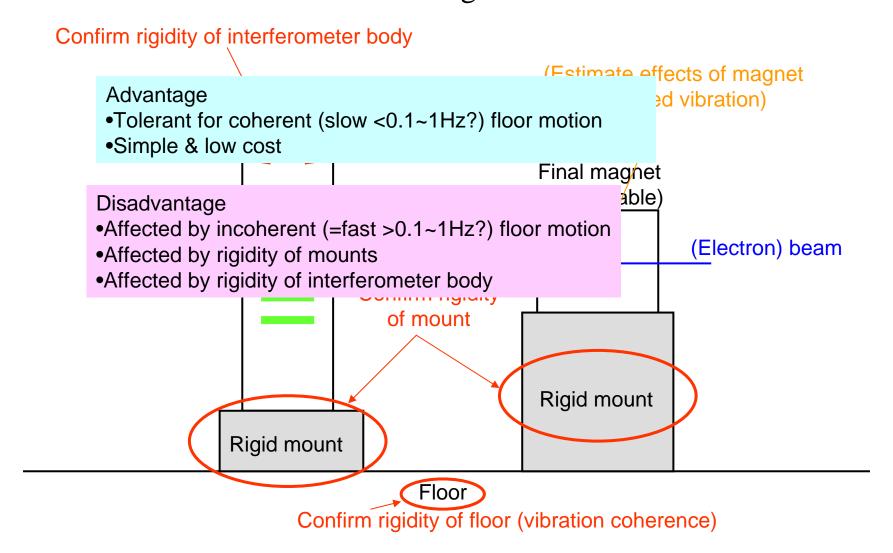
✓ Below 0.8Hz: Amplification on the table ✓ Above 0.8Hz: Damping on the table

→ Factor 7 of damping above 1.5Hz

#### Proposal 1 for relative stability around IP:

# Rigid mount on floor

using individual rigid mount for supporting interferometer and f.f.magnet





## Schedule: movers



 Send CLIC CERN table a little before arrival of QD0 (and other final focus section) magnets (end of 2007, beginning 2008)

 But since our measurements show that the CLIC CERN table is not ideal for ATF2 Final Focus section

- => work on alternative support :
- Rigid mount or rigid mount with polymer sheet
- Eigenmode simulations or dynamic simulations if measurements done on support

=> work with Sugahara san and Kume san

# **MONALISA**

# ATF2: Measuring Motion of Shintake Monitor with Respect to Final Doublet

 Idea of Compact Straightness Monitor (CSM) presented in May:

