

ATF2 - IP Chamber for IP-BPM

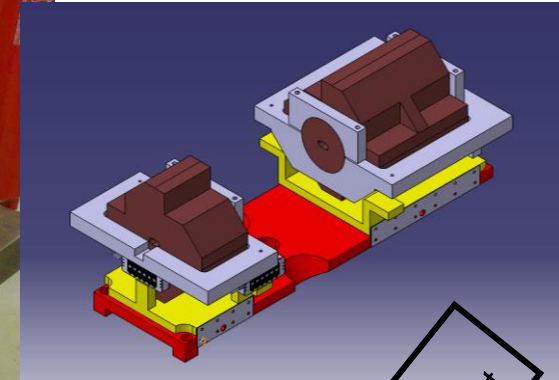
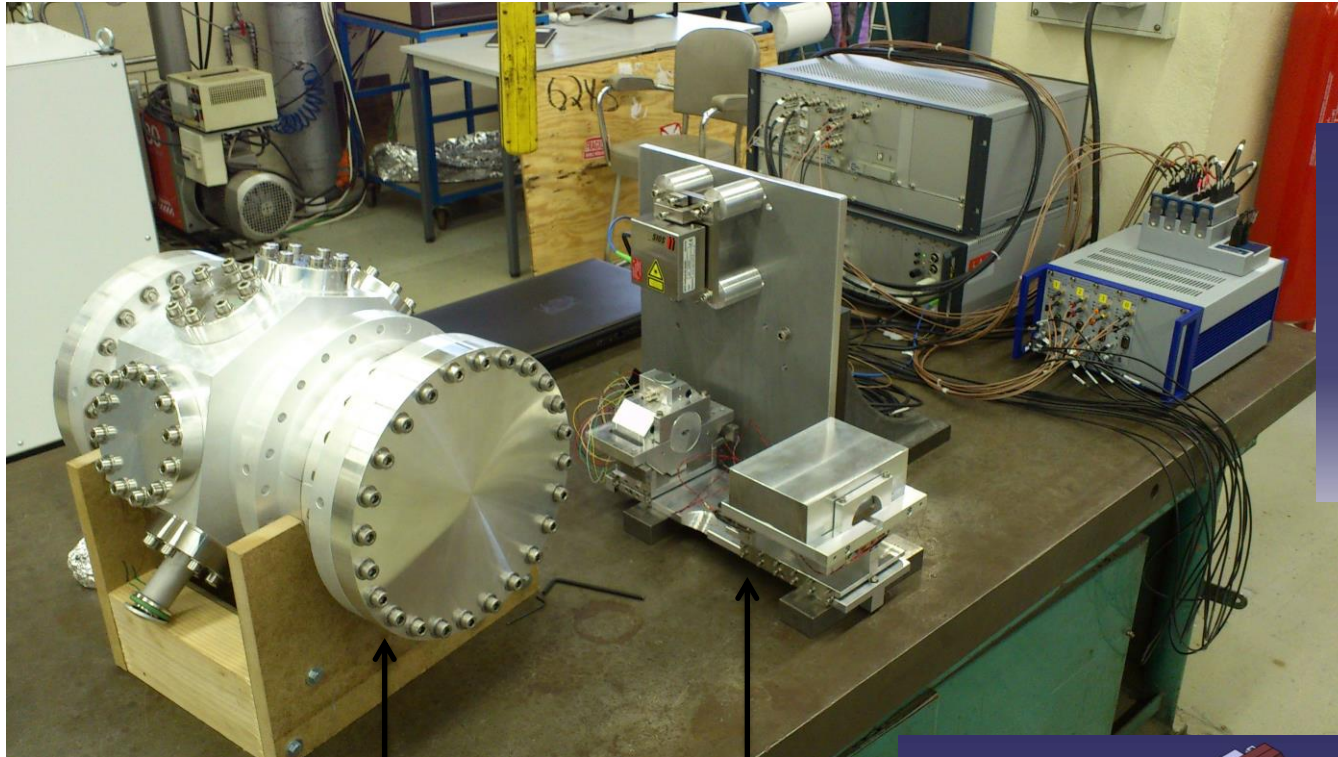
Final configuration with the 3D mechanical measurements
and short status



ATF2 Topical Meeting

LAL-IN2P3-CNRS and Paris-Sud Orsay University - Sandry WALLON – 5 July 2013

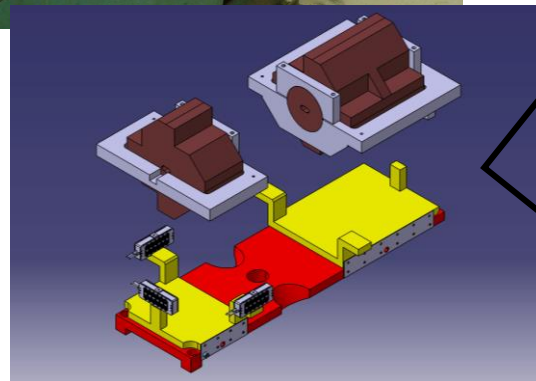
Equipment shipped from LAL Orsay



Chamber (with blank flanges)

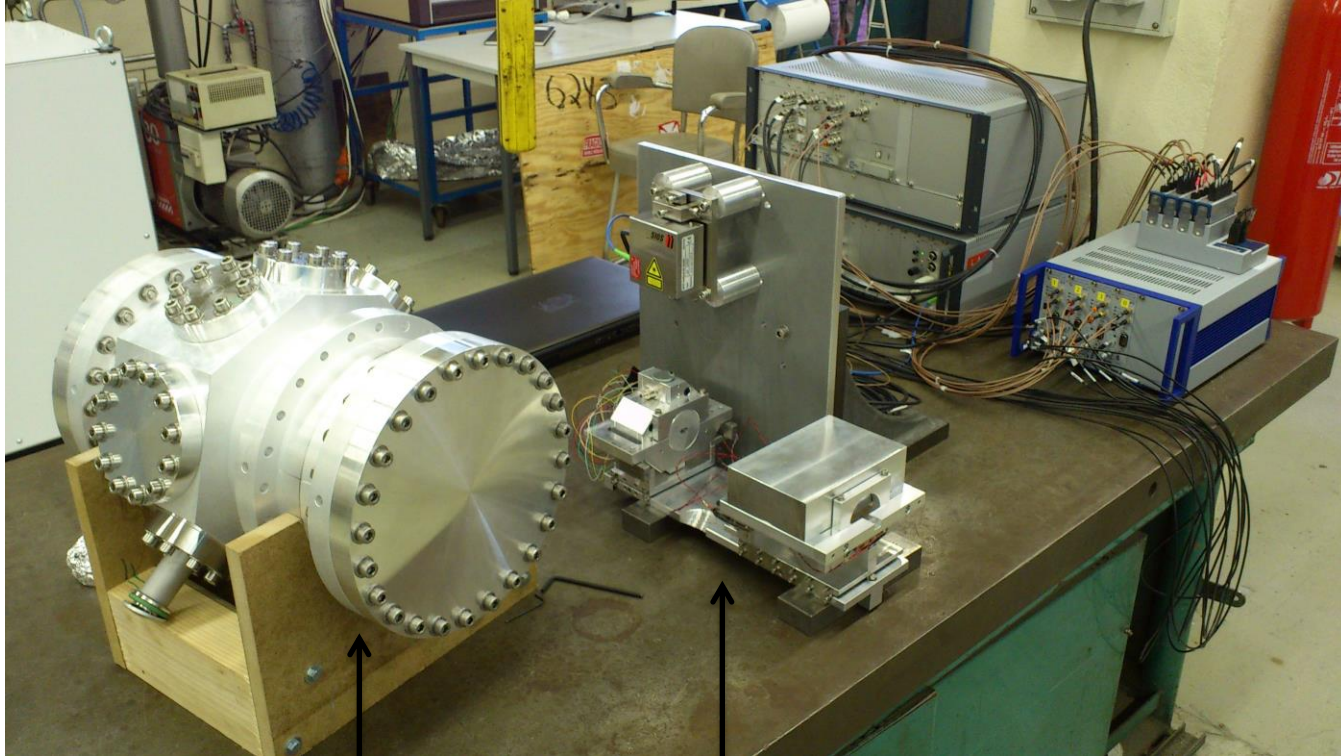
BPMs displacement system
(tested with dummy BPM1&2)

+ electronics, PLC, PC, fixture chamber to BSM table



BPMs displacement system
partially dismounted for shipment

Tests, checks, tunings at LAL Orsay



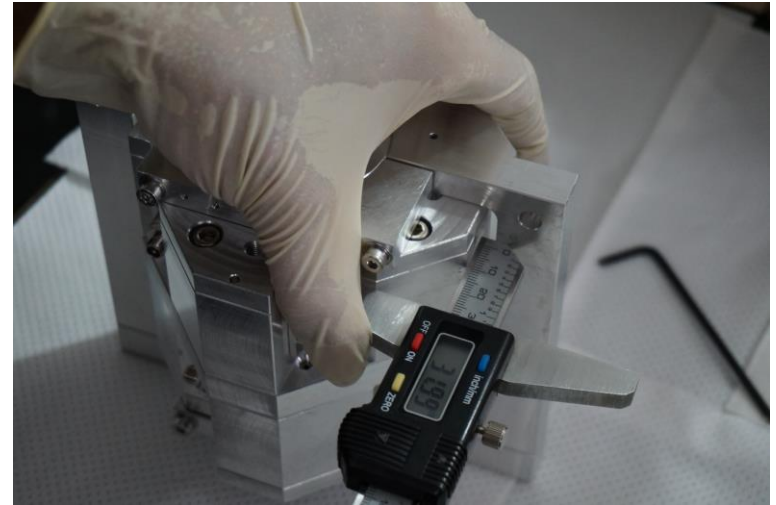
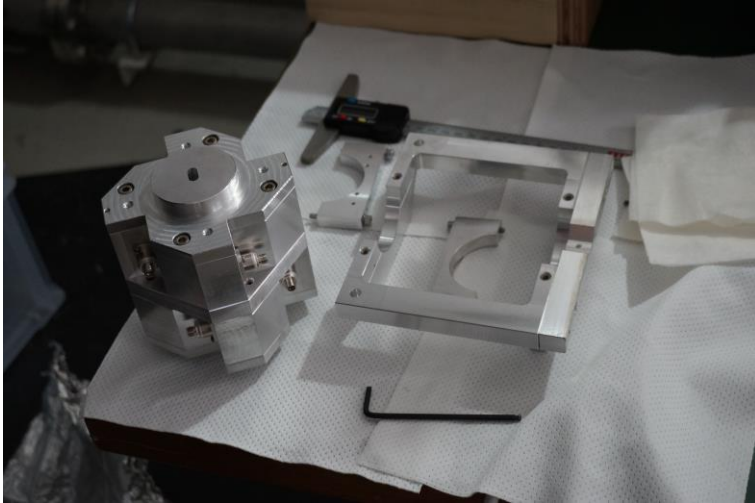
Chamber

- vacuum leak test
- 3D measurements (internal references known with respect of external references)

BPMs displacement system

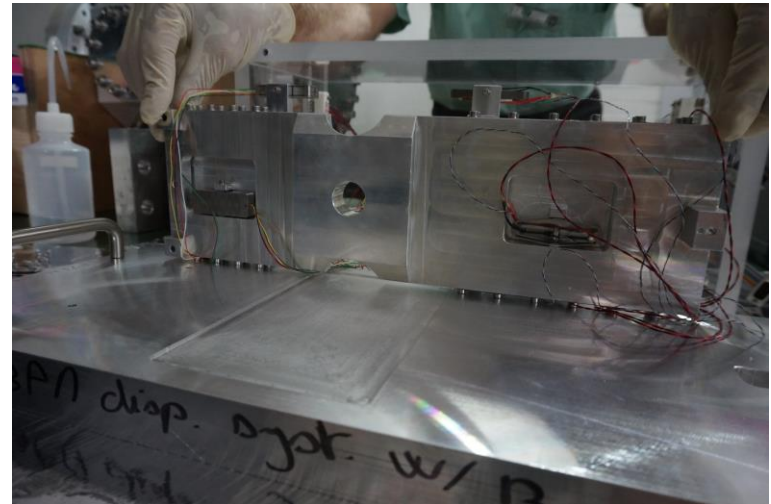
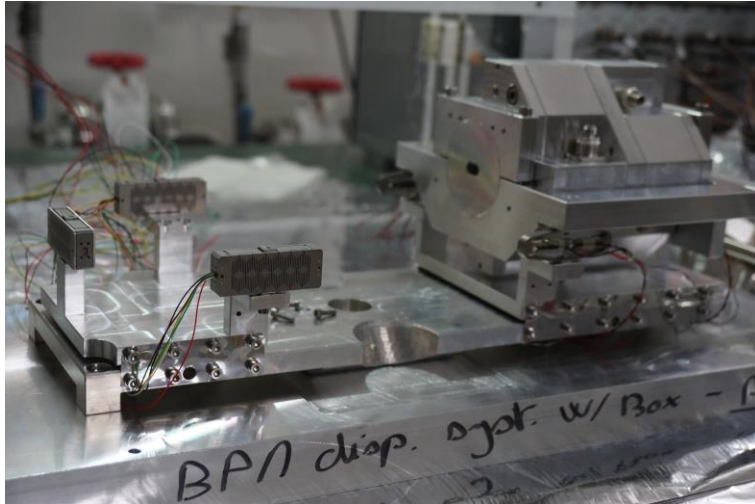
- interferometer measurements (actuators and assy behavior → Oscar & Frédéric)
- 3D measurements with fine-tunings (BPMs axis pre-alignment thanks shims adjustment)

Tests, checks, tunings at KEK



BPM1&2 mounting on its cradle
Checking / adjusting angular position (roll)

Tests, checks, tunings at KEK



Adjustment of Cedrat lateral actuator (for BPM1&2)
(correct stroke issue -see Oscar presentation)

Tests, checks, tunings at KEK



Checking BPM1&2 axis with respect of its cradle references
(can not be done at LAL Orsay due to BPM1&2 activation)

Tests, checks, tunings at KEK



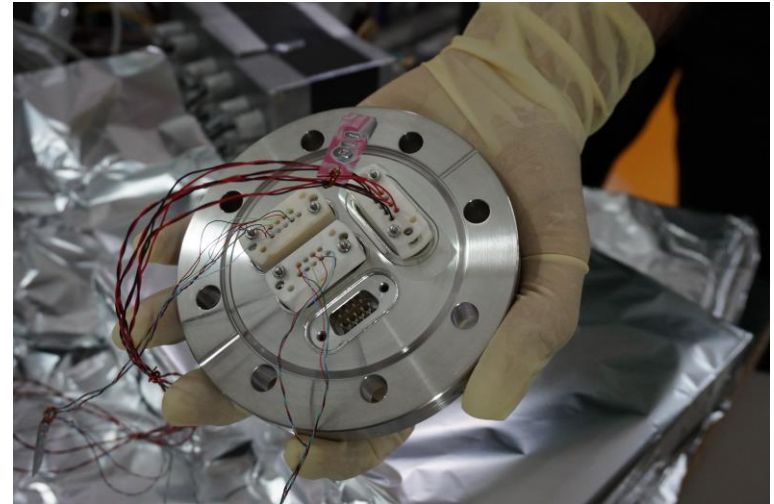
Mounting BPMs
Adjustments w/ positioning tool
(distance to IP plane, lateral alignment,
yaw)



Tests, checks, tunings at KEK



Checking connection w/
feedthrough flanges (→ thin wires
issue to correct)



We are here today

To be done :

- Correct thin wires issue
- Check in vacuum behavior of BPMs disp. syst.
 - - install chamber at IP