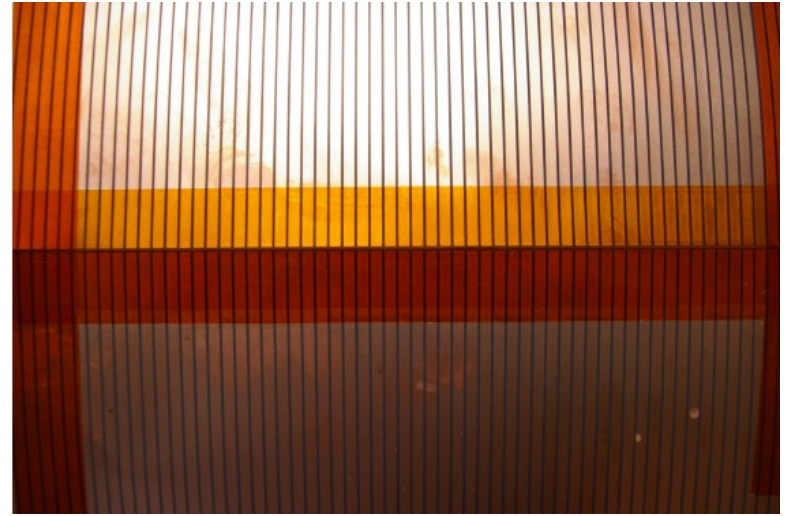


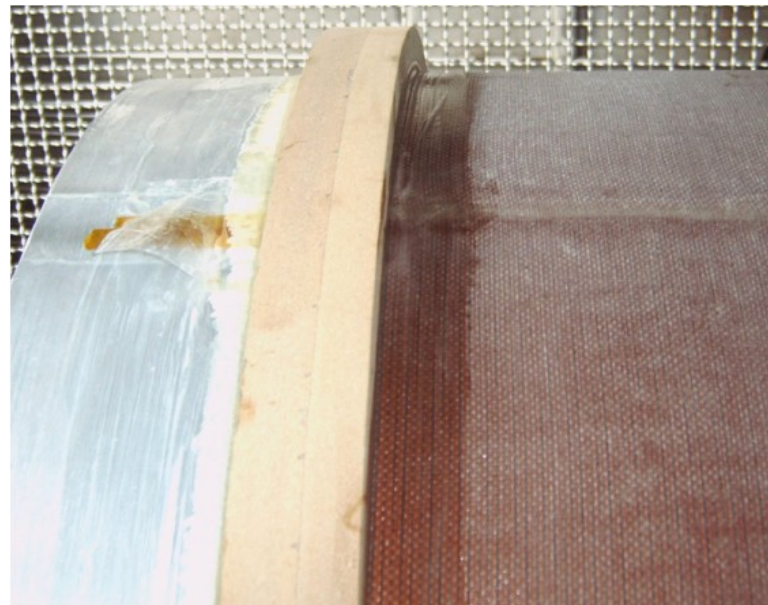
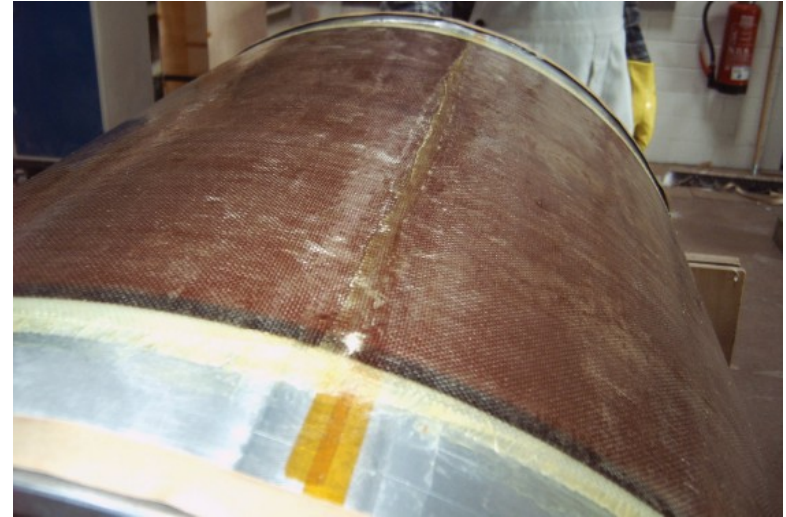
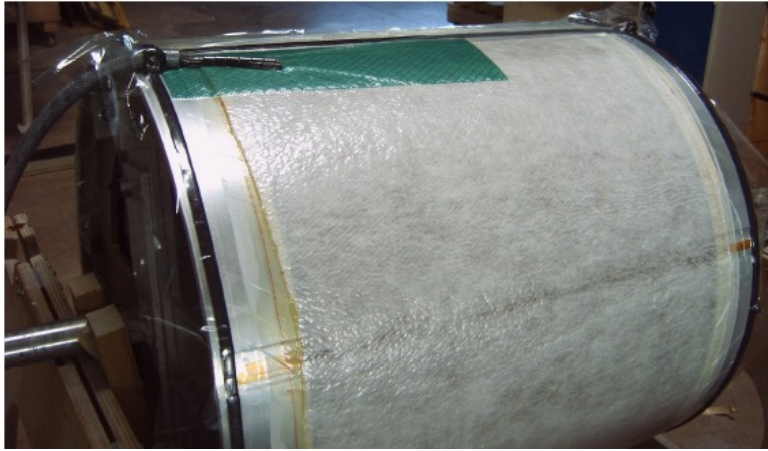
# Field Cage (FC) @ DESY

LCTPC WP Meeting # 64  
13-August-2008

# Construction of the FC I



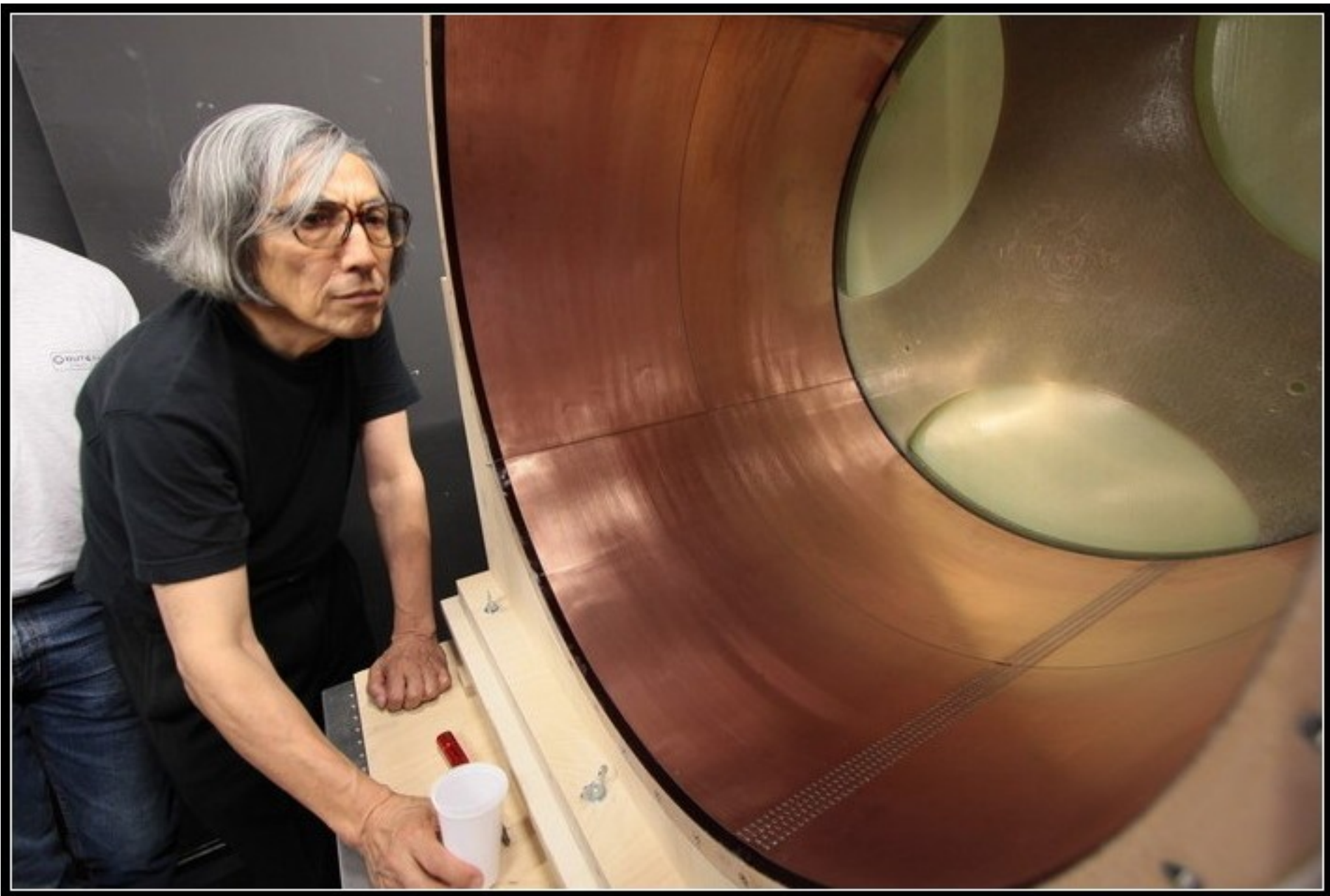
# Construction of the FC II

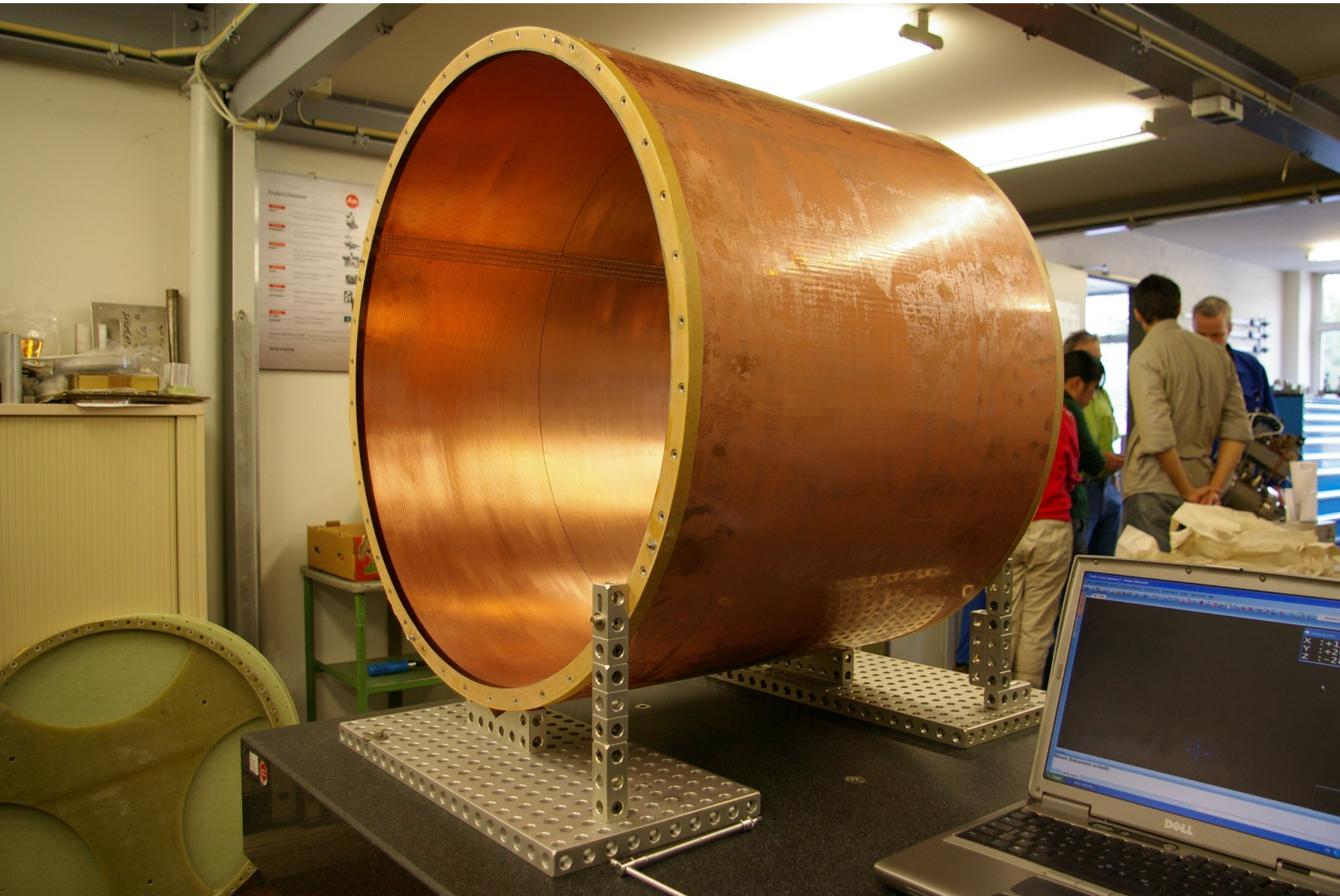




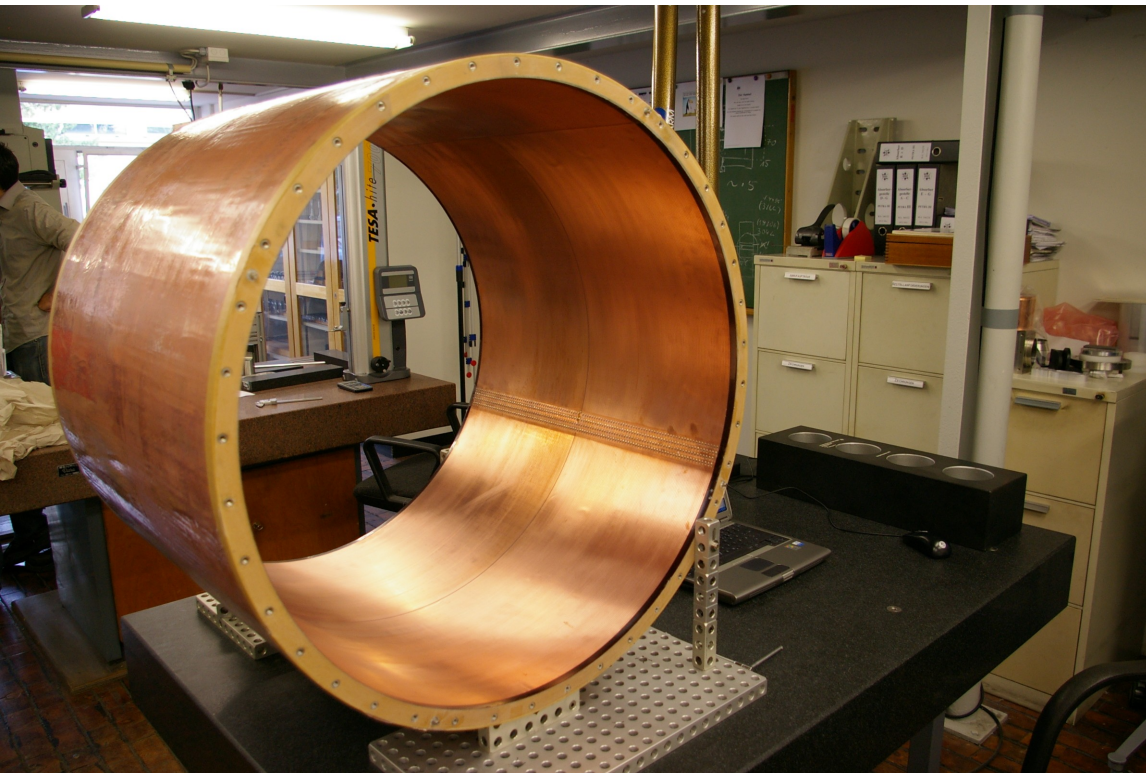








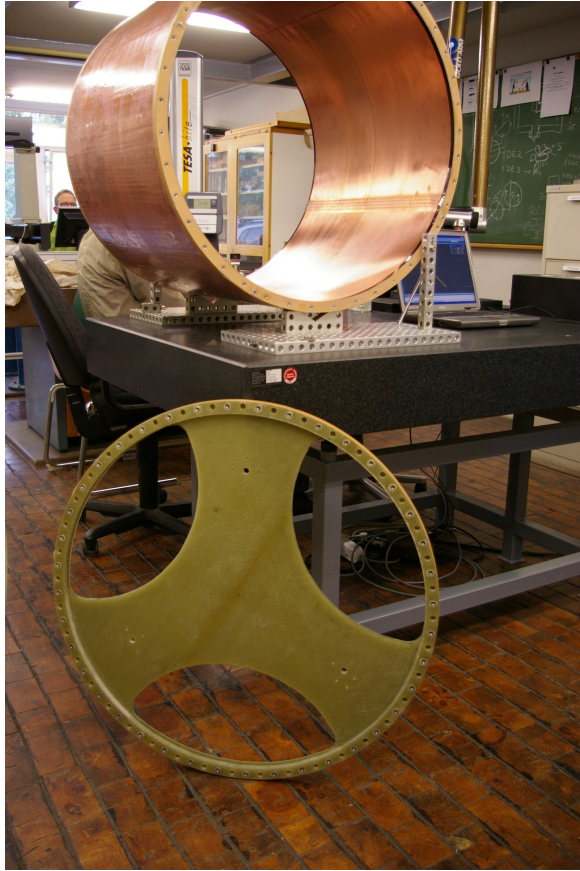




FC at the assurance control



# FC at the Assurance Control



# I. Field Cage: Now at DESY.

- (1) Measurement of the basic mechanical parameters of FC: Currently being performed by the DESY inspection office; a 3D measurement by mechanical contact (which can not be applied to (2)).
- (2) Measurement of the position of strips: To be discussed (tomorrow?) with the DESY survey group for a non-contact 3D measurement. If not possible, we will measure in a low-tech method by ourselves.
- (3) Mount a few more resistors and HV connectors/contacts to outside.
- (4) Low voltage test to check all electrical connections of the filed cage/strips.
- (5) Pressure test, leak test and gas purity test:  
The nominal operational pressure of around 6 mbar with a safety valve of 20mbar (full open)/9 mbar (start to open). The 6 mbar is given by the pressure drop of TPC exhaust gas line (the gas monitor) for a nominal gas flow rate.
- (6) HV test: As described before.

# End plate, TPC-, PCMAG-Support

II. The first end plate to be (or have been) shipped out to Saclay.

III. TPC support (inside PCMAG): Under fabrication. To be delivered in two weeks at DESY.

IV. PCMAG support: Under design.

Specification of the height adjustment:  $\pm 25$  cm enough?

V. Cooling test of PCMAG with the new transfer tube:

(0) A new exhaust He gas line with higher capacity and a power line for PCMAG have been installed for the new position (orientation) of PCMAG.

(1) The new transfer tube has arrived at DESY.

(2) Re-machining (at DESY) of the receptor of the transfer tube to the DESY Liq. He dewar: Under work.

(3) Date of the final test of PCMAG with the new transfer tube to be decided (in Sept.): Under negotiation with the KEK/IPNS cryogenic group (who are currently very\*\*2 busy with J-Park neutrino beam line).