LCTPC WP Meeting 154 Testbeam Area T24/1

19.07.2012



PCMAG Modification Timeline



• July, 2011 : PCMAG shipped to Japan

• 2011/12 : Modification of PCMAG

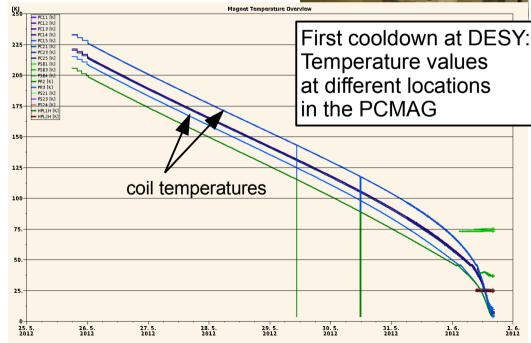
at Toshiba

March, 2012: PCMAG back at DESY

- April-June, 2012 :
 Visits of Japanese experts:
 Unpacking, mounting, installation and testing
- Status now:
 - Installation "finished" and magnet is working
 - Passed safety check
 - Excitation much more easy than before



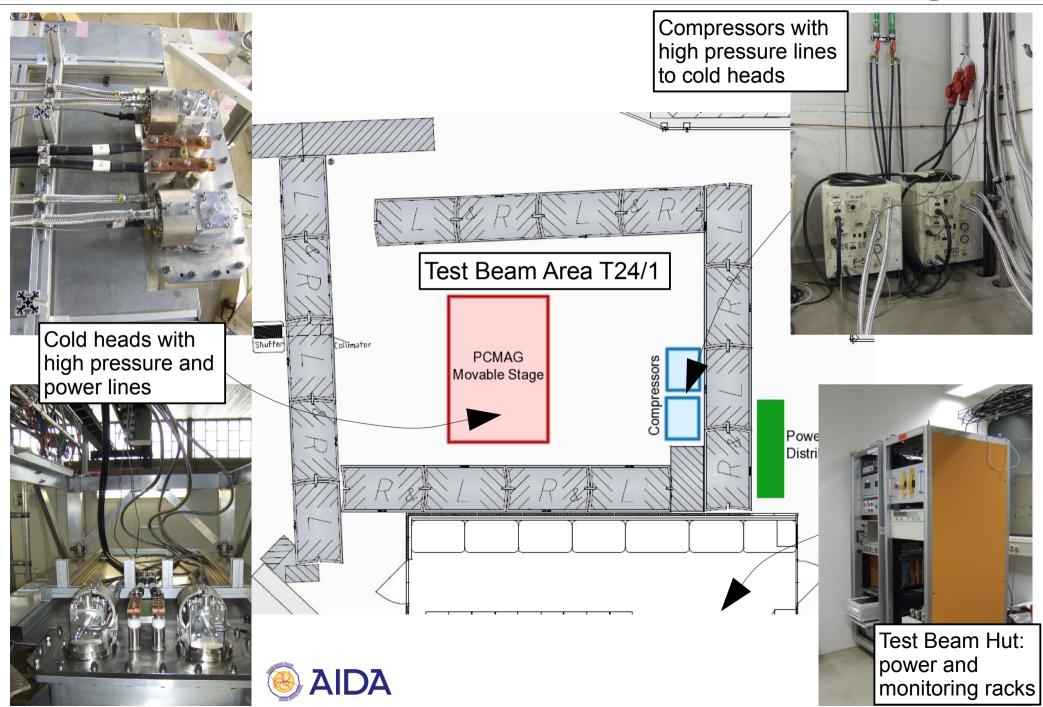






Status 1.June.2012







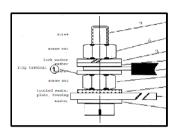
Safety: Grounding, Covers & Interlock



- Inclusion of magnet power lines in emergency off
- Racks had to be modified to comply safety rules









- Todo:
 - Integration of compressor status in slow control and interlock system
 - Additional cooling for power rack?
 - Replacement for data logger or integration into slow control system

T24/1 Area



- Clean tent for mounting the modules
- Position measurement of the Large TPC Prototype
- Movable stage
 - Integration of the "new" external stage position measurement system
 - Better guiding for cables and pipes
 - Mounting system for cosmic triggers
 - New control system passed first test
 - Repair of vertical movement
- Integration of all measurements into slow control system
- Safety measures
 - Magnetic field indicator
 - Protection cover for high current leads to the magnet

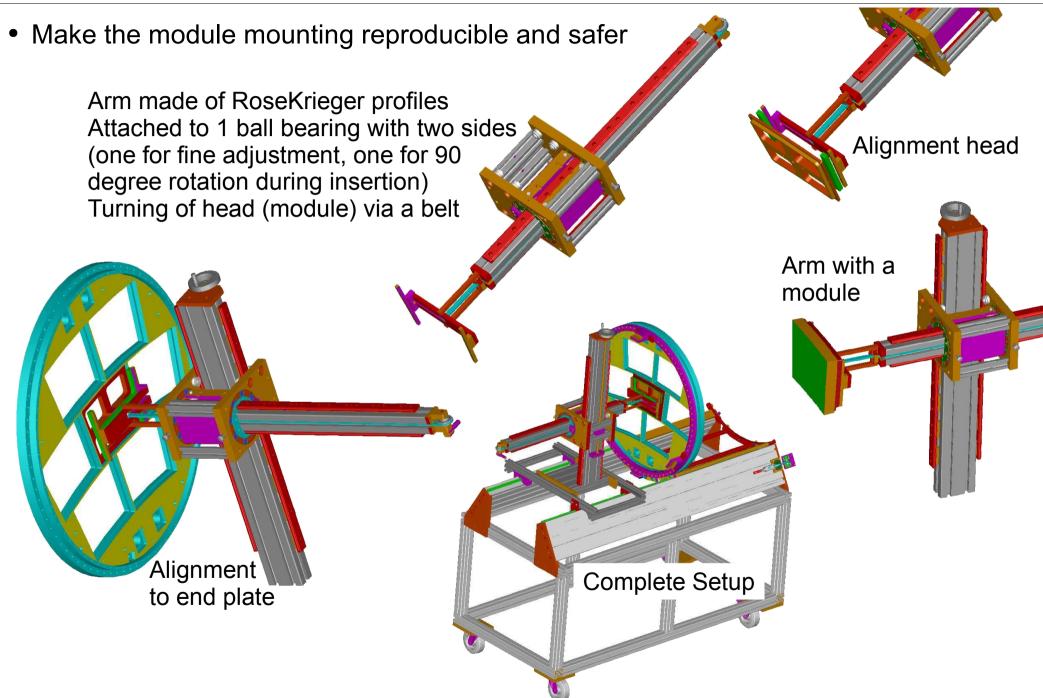


- Recommissioning of the laser calibration system
- Remeasuring of magnetic field
- Air conditioning for the hut
- Install flat floor in front of field cage
- Investigate possible damage to field cage

. . .

Module Mounting Tool







Rough Schedule



Mid/End of August '12: DESY GEM module testbeam

September '12: Lending ALTRO front end cards to ALICE

September/October: ECAL test in PCMAG?

End Oct./Beg. Nov. '12: T24 occupied

not clear: collides with beam downtime!

End Nov. / Dec. '12: Asian double GEM module testbeam

last two weeks of Dec. no beam

• Last quarter of '12: Micromegas module testbeam