

Testbeam @ DESY

LCTPC WP 252
20.10.2016
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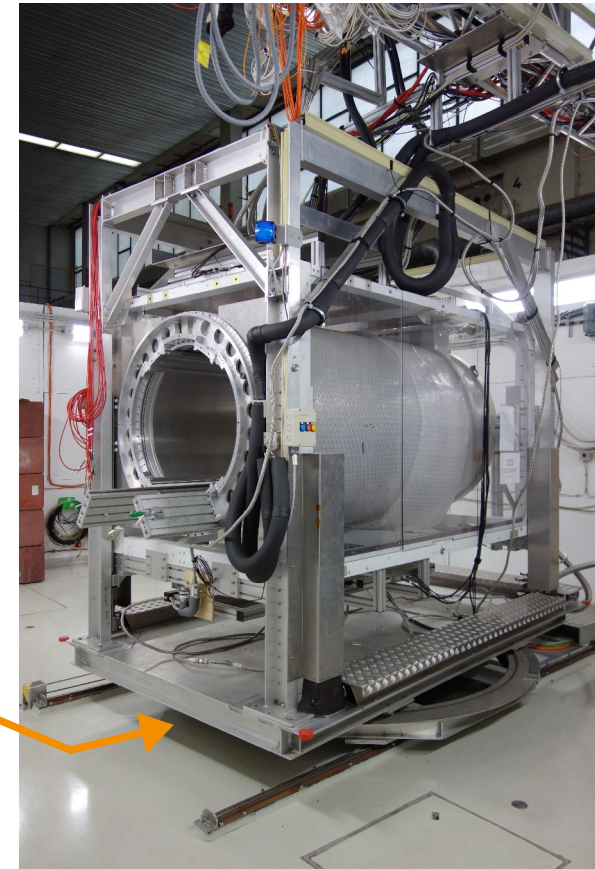
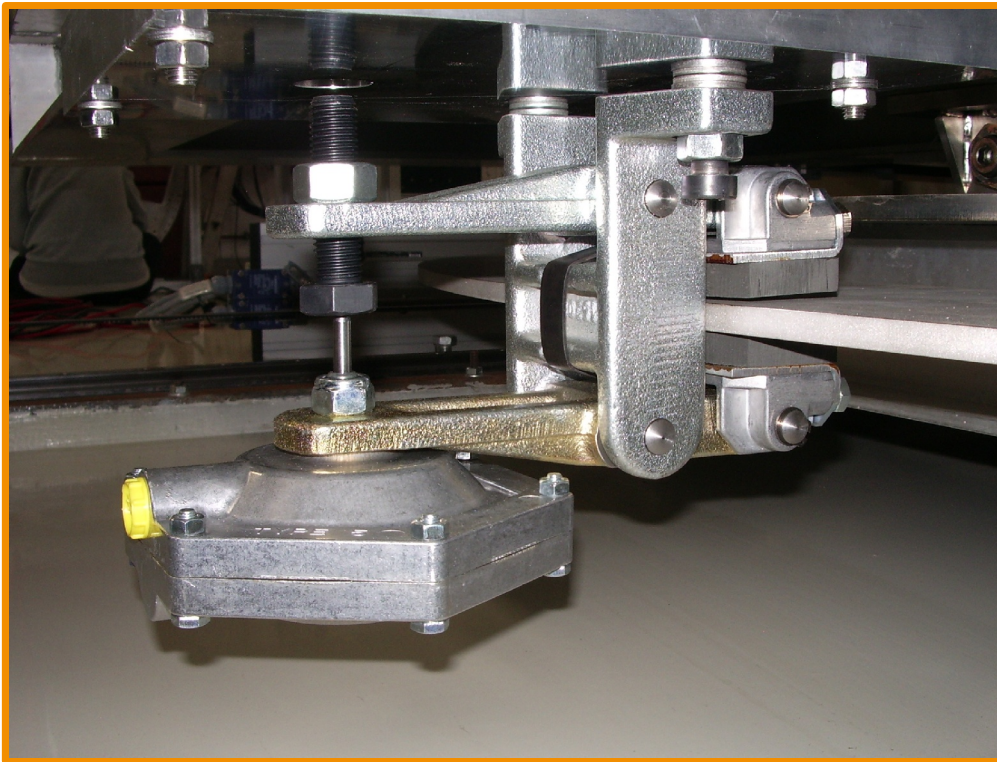
- New gas cabinets (safety)



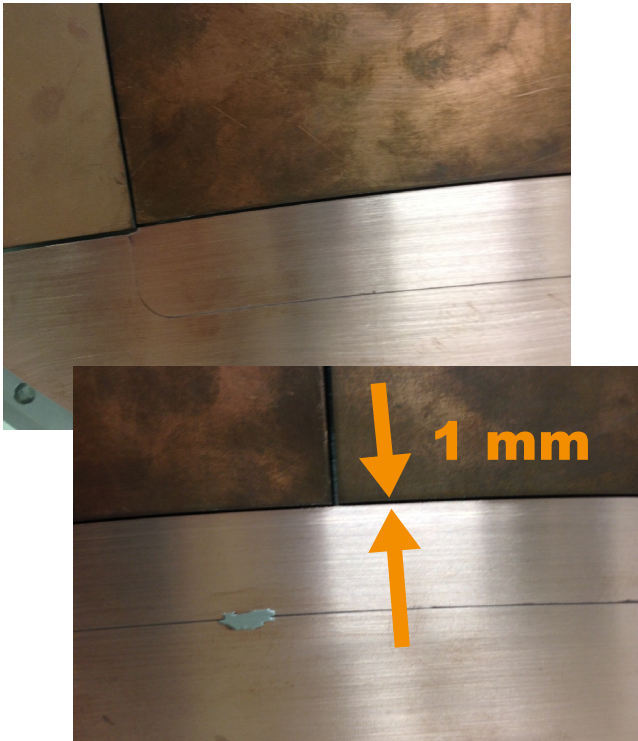
- Hut rearranged and cleaned up



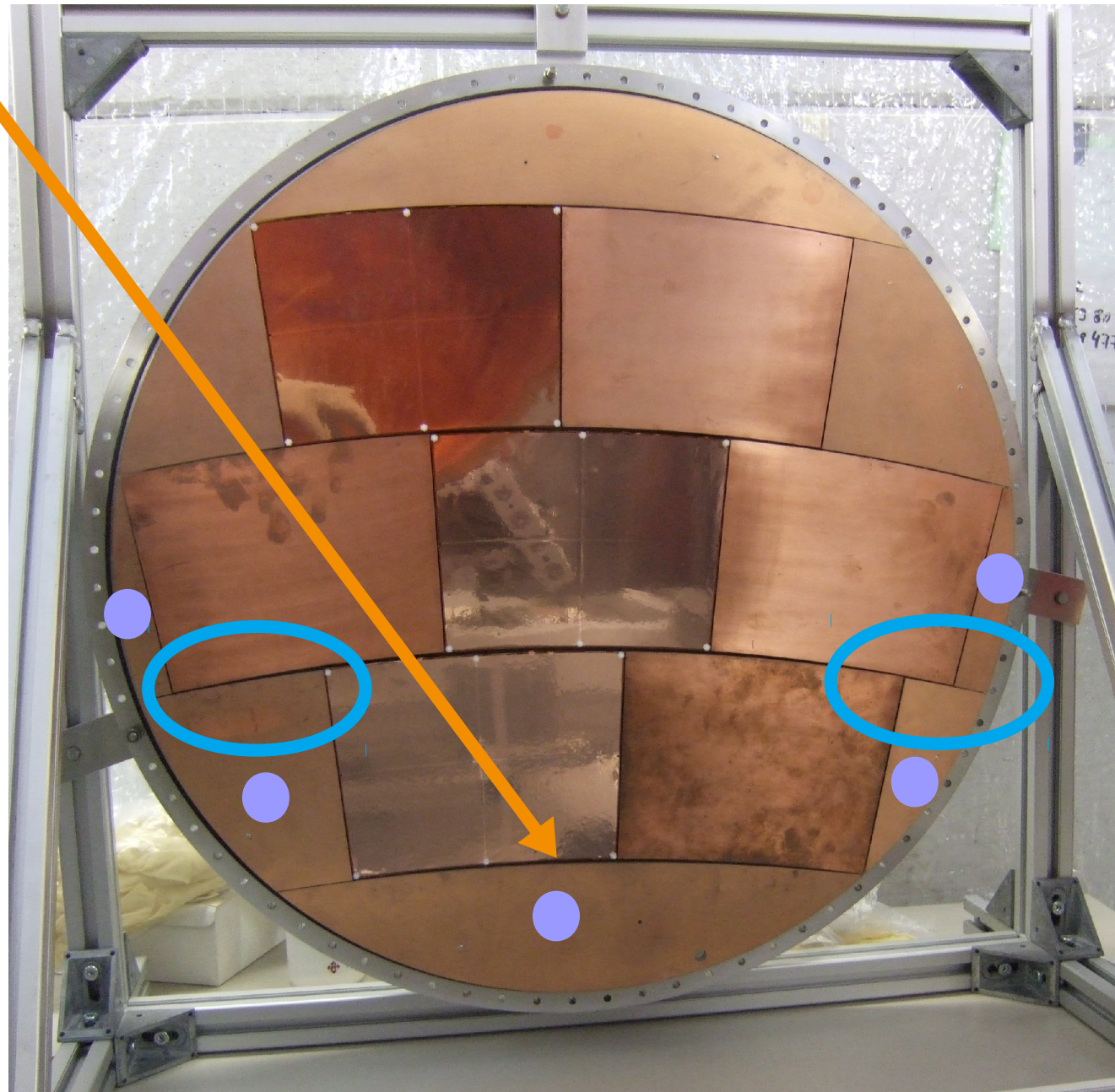
- Movable stage:
 - Control: PC → PLC
 - Brakes that stop “ghost” movement in magnetic field:
 - Horizontal: switch from belt drive to screw drive using a spindle - waiting for material
 - Rotation: hardware being installed + software being extended



- Lower endplate termination plate adjusted: gap now with same radius as the modules (quick fix: inserted a copper plate)



- Planning to replace more termination plates to adjust all radii



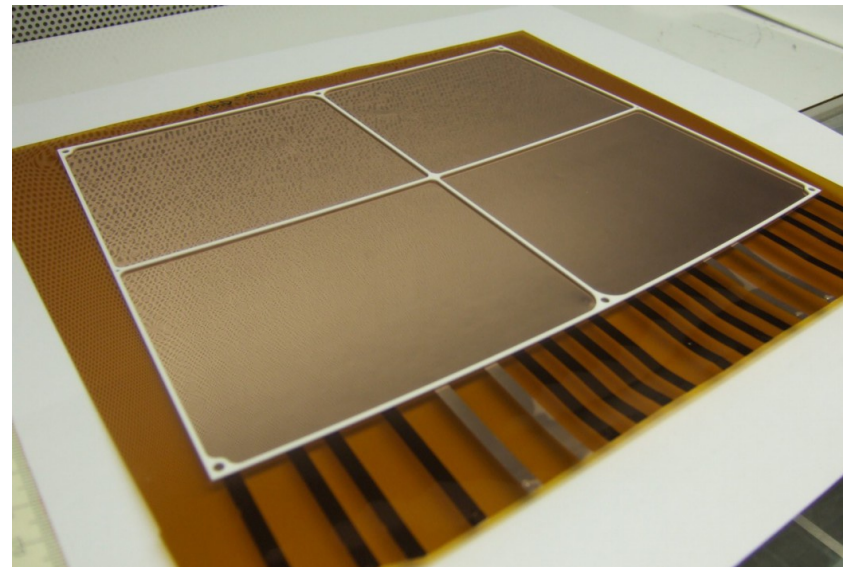


- Due to delivery problems, tried to refurbish old, partly damaged modules
→ Did not work out

- Study of source of HV Instability
 - First module tested
 - Discharge probably not in the GEM but in the HV distribution

 - Investigation (of all 3 modules) ongoing

- Ceramic frame order finally ongoing
 - Expected delivery end of October or beginning of November
- New GEMs being tested before glueing
- Preparation of glueing process and tools ongoing → smooth and quick assembly once all parts are available



- Target for double track studies ready
 - Stainless steel, $\sim 50\% X_0$
 - Expected: $\sim 3\%$ double tracks, which are overlapping at the entry and well separated at the end

