

# TPC status

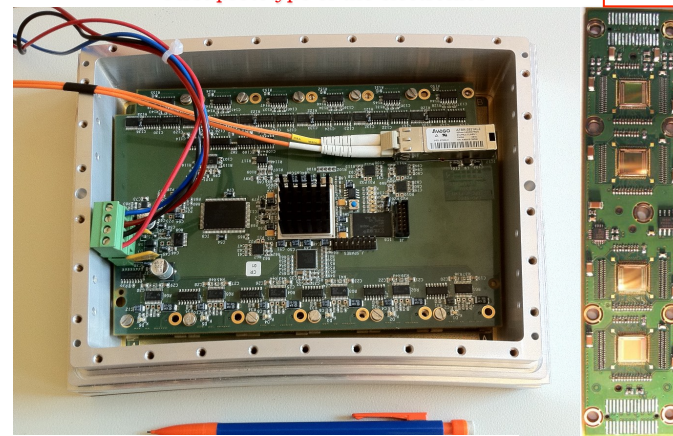
ILD Concept meeting @ LCWS11

Jan Timmermans

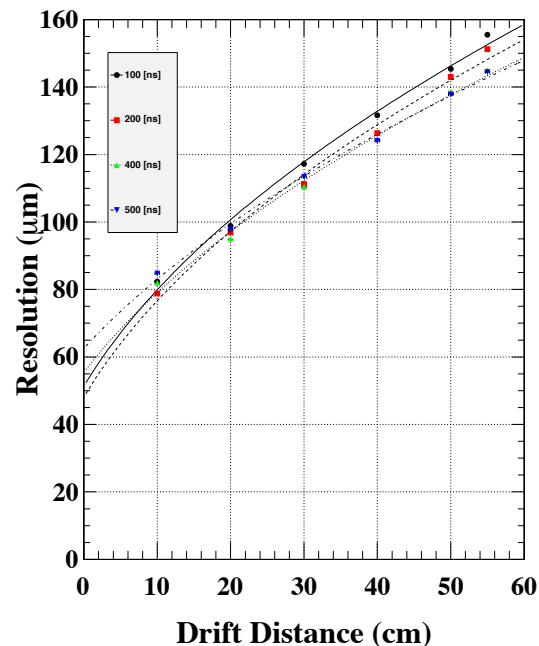
# Update w.r.t. Orsay meeting May'11

- Japanese groups received funding for next 4 years
- Mokka detector model DONE and new FFF software working (Steve Aplin)
- PCMAG -> Japan; back at DESY ~Feb/Mar 2012
- 1st Micromegas module test with integrated AFTER electronics; 7 (+2) modules in production -> early 2012; for test results (with improved software)-> Madhu Dixit's talk in TRK/VTX session

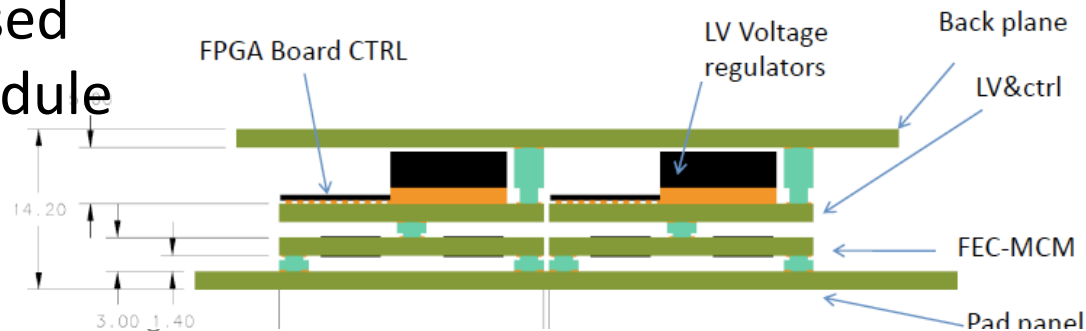
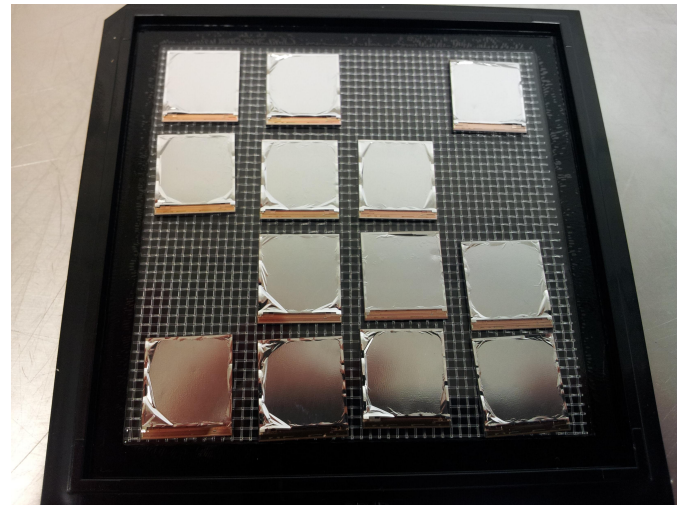
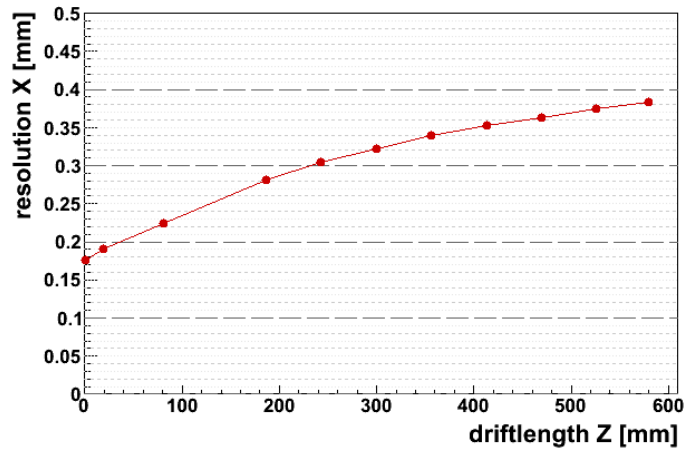
First prototype of the electronics



Resolution Plots for all Peaking Times.



Triplet Resolution



- Beam test of new DESY Grid-GEM module; discharge problems; first analysis of data; new module iteration will be developed
- Asian groups preparing new GEM modules and working on gating device; also preparing CO2 cooling system
- 1st time production of Ingrids on full (8") wafer scale at IZM; next iteration `soon`
- S-Altro-16 being characterised at CERN; FEC multi-chip-module in preparation (Lund)

- New (thinner) endplate w. spaceframe for the LP progressing well
- Work continuing on cathode and (outer) field cage design
- Distortion studies due to ions:
  - Ion disks **suppressed** with gating device
  - Distortions from ions between gate and anode **negligible**
  - Prel. calculations distortions due to volume charge density: probably **small**

The Main Plate is complete, with 3 machining steps, and stress relief after the first 2 machining steps.

Quantity = 2.

