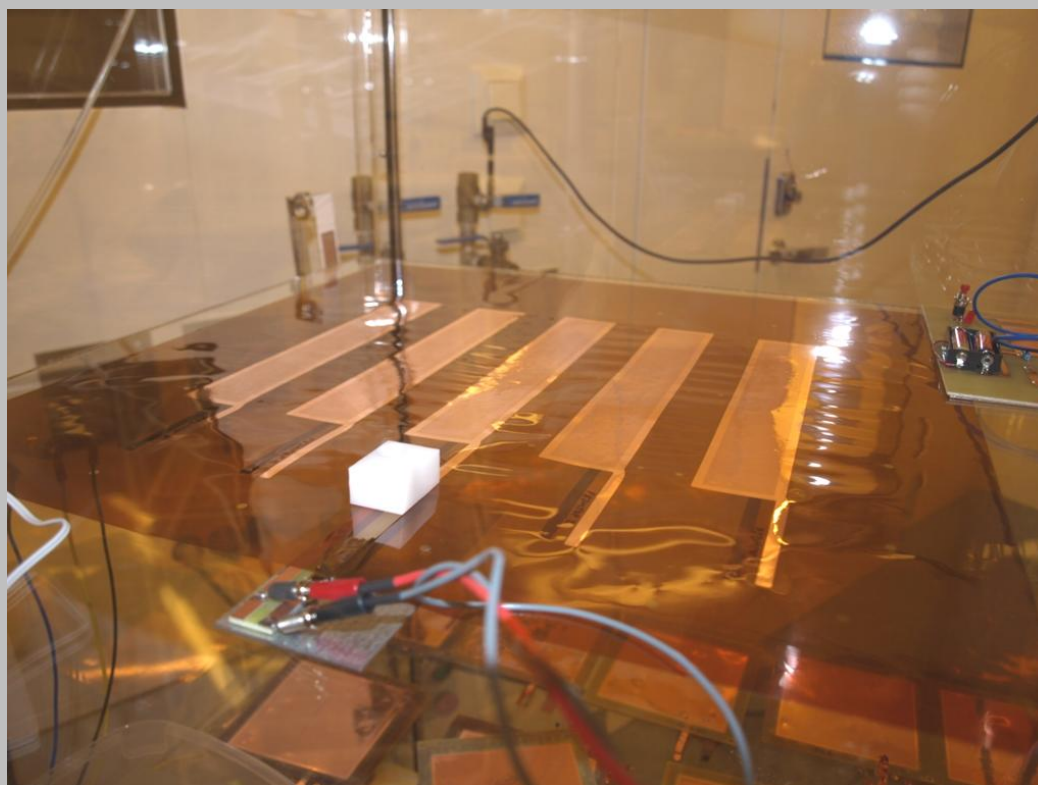


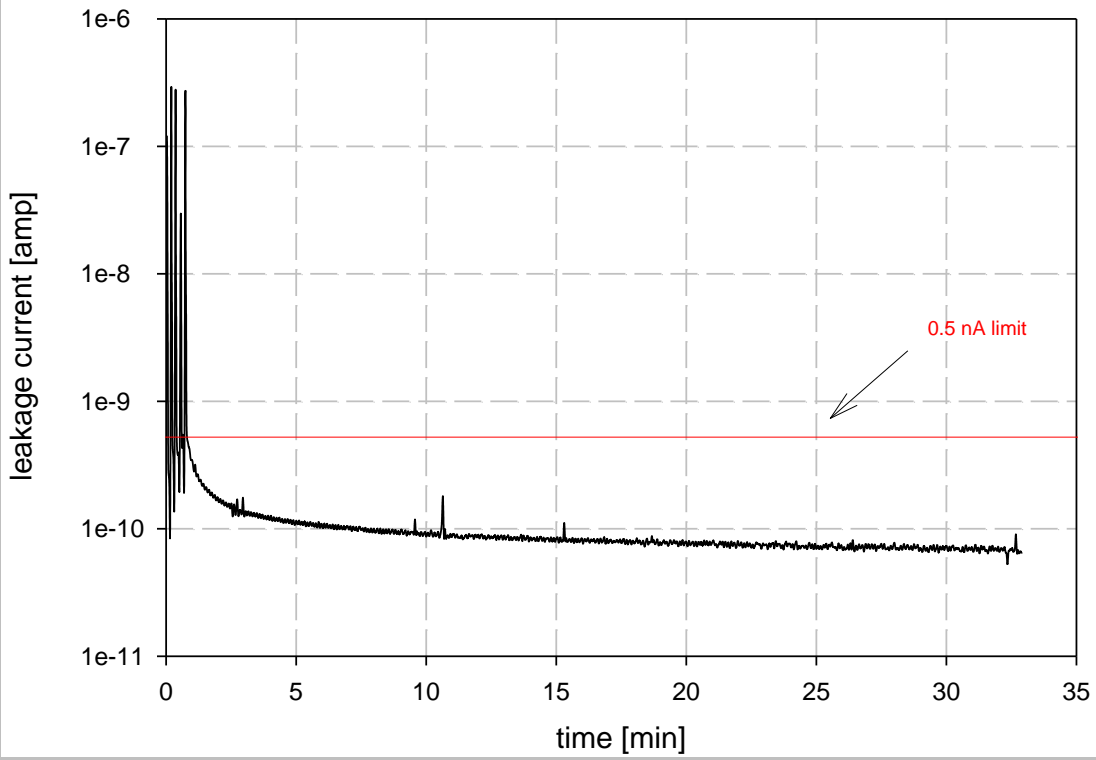
## LEAKAGE CURRENT MEASUREMENT SETUP



## **STATUS AND OUTCOME OF THE LEAKAGE CURRENT MEASUREMENTS at HIP 14.2.2013**

- **so far 5 double mask foils (each containing 5 GEMs) measured**
- **we have used the same approval criterion as with the GEMs in the TOTEM T2 telescope at LHC i.e.  $I < 0.5 \text{ nA @ } 500 \text{ V} > 30 \text{ min.}$**
- **results: all 25 GEMs passed OK**
- **only 2 sparks observed, both within the same GEM: see the graph next page along with a typical graph behavior**
- **problems encountered: some foils originally contained too much humidity resulting in too high leakage current values. Remedy: 1 day heat treatment at  $35^\circ \text{C}$  in the oven.**
- **still to measure: 1 single mask foil with 5 GEMs.**

### F3DMtop1



### F1DMtop5

