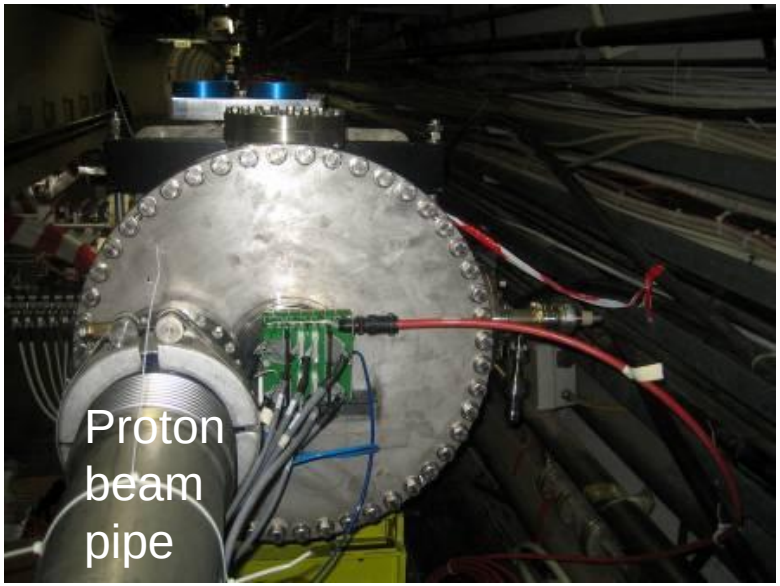
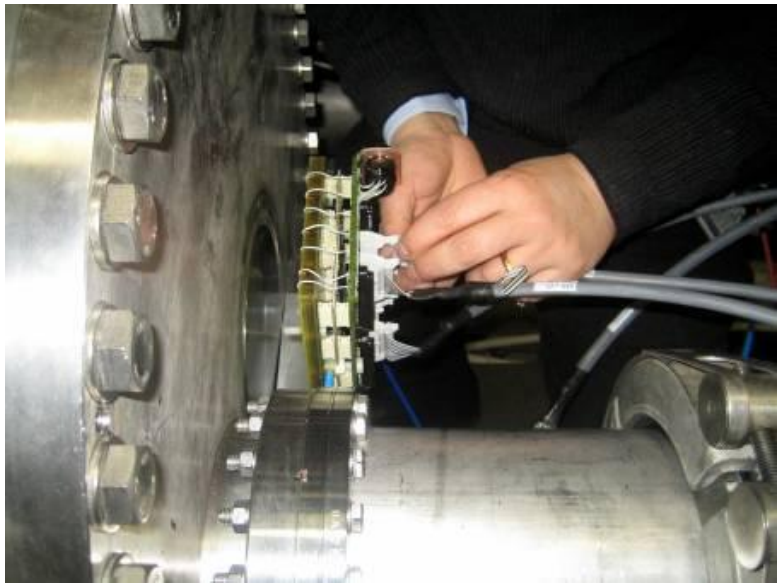
Installation on Crystal Tank at SPS

Front view



Side view

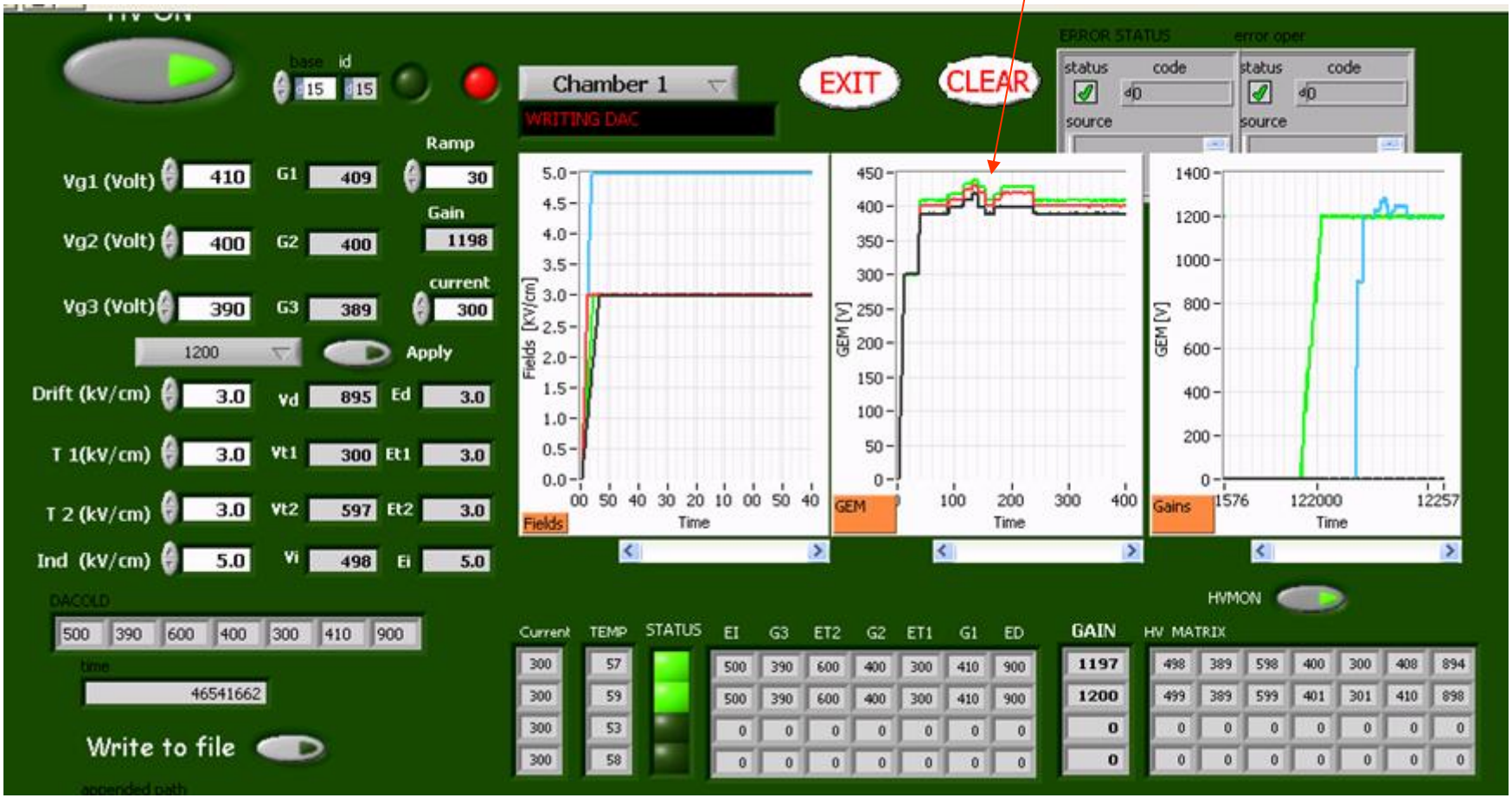


During last access the thresholds have been increased from 1100 mV to 1400 mV

GEM HV settings

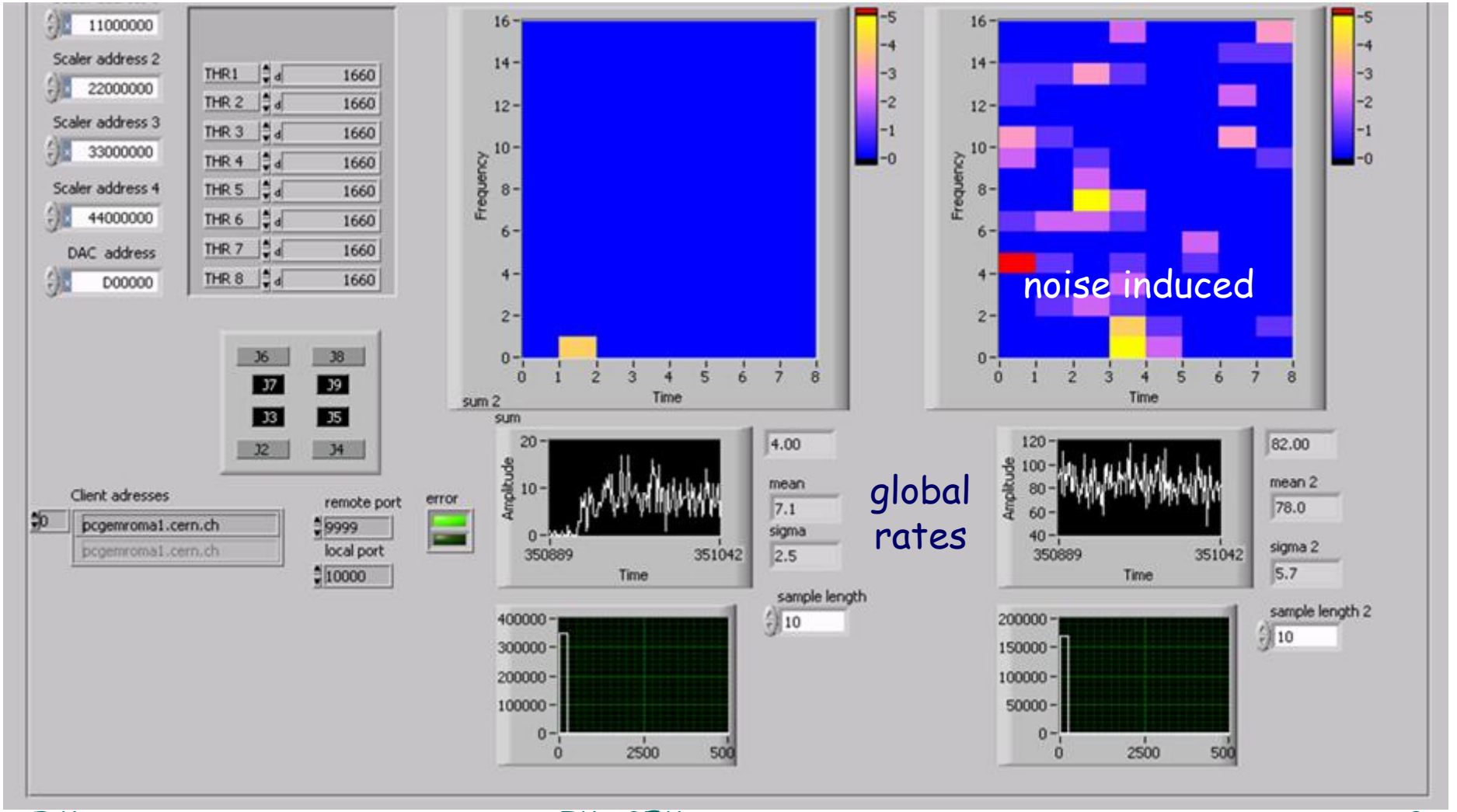
HV control panel for two GEM detectors

Few trials for HV settings



Without beam: detector ON

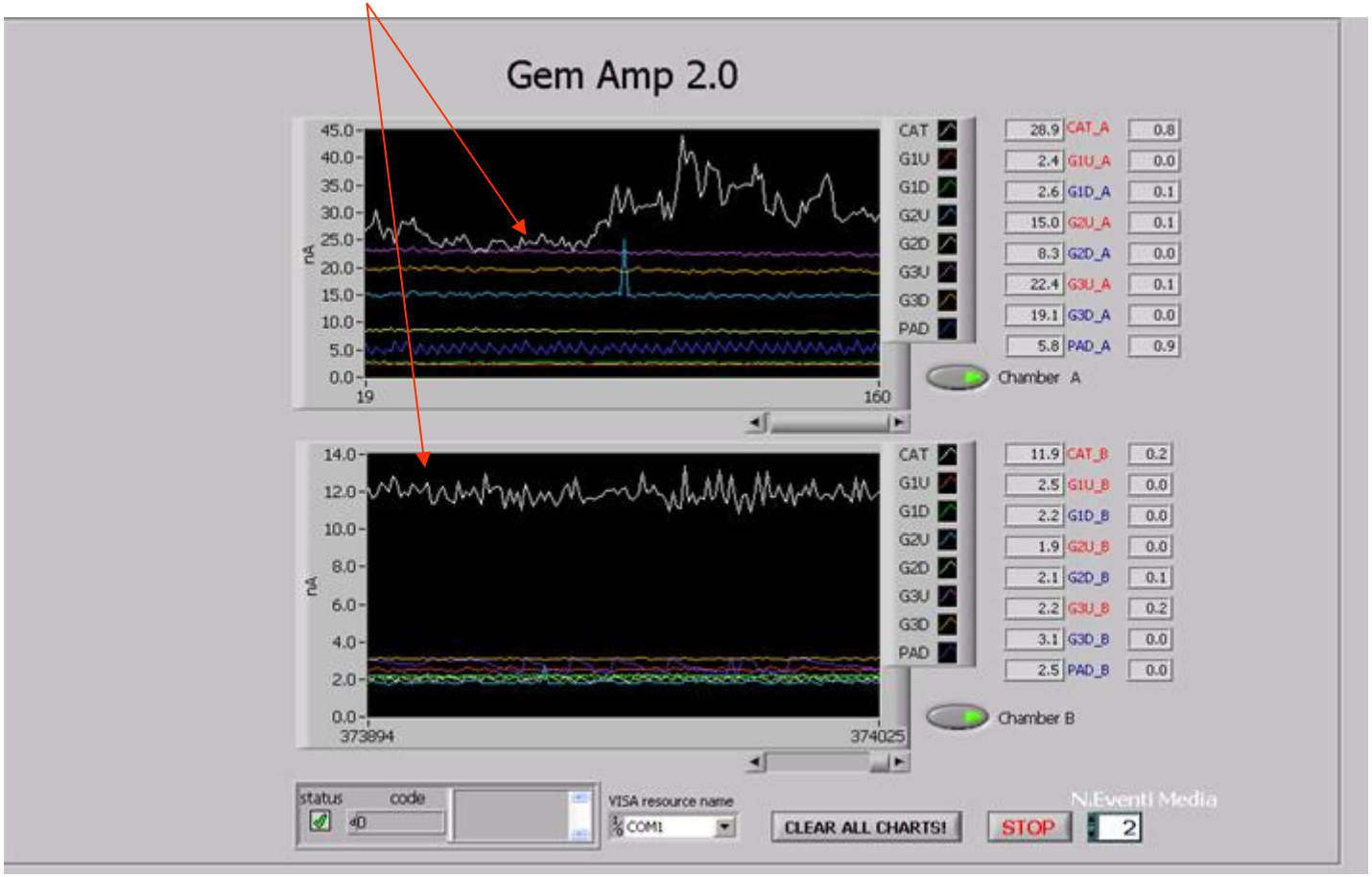
DAQ console



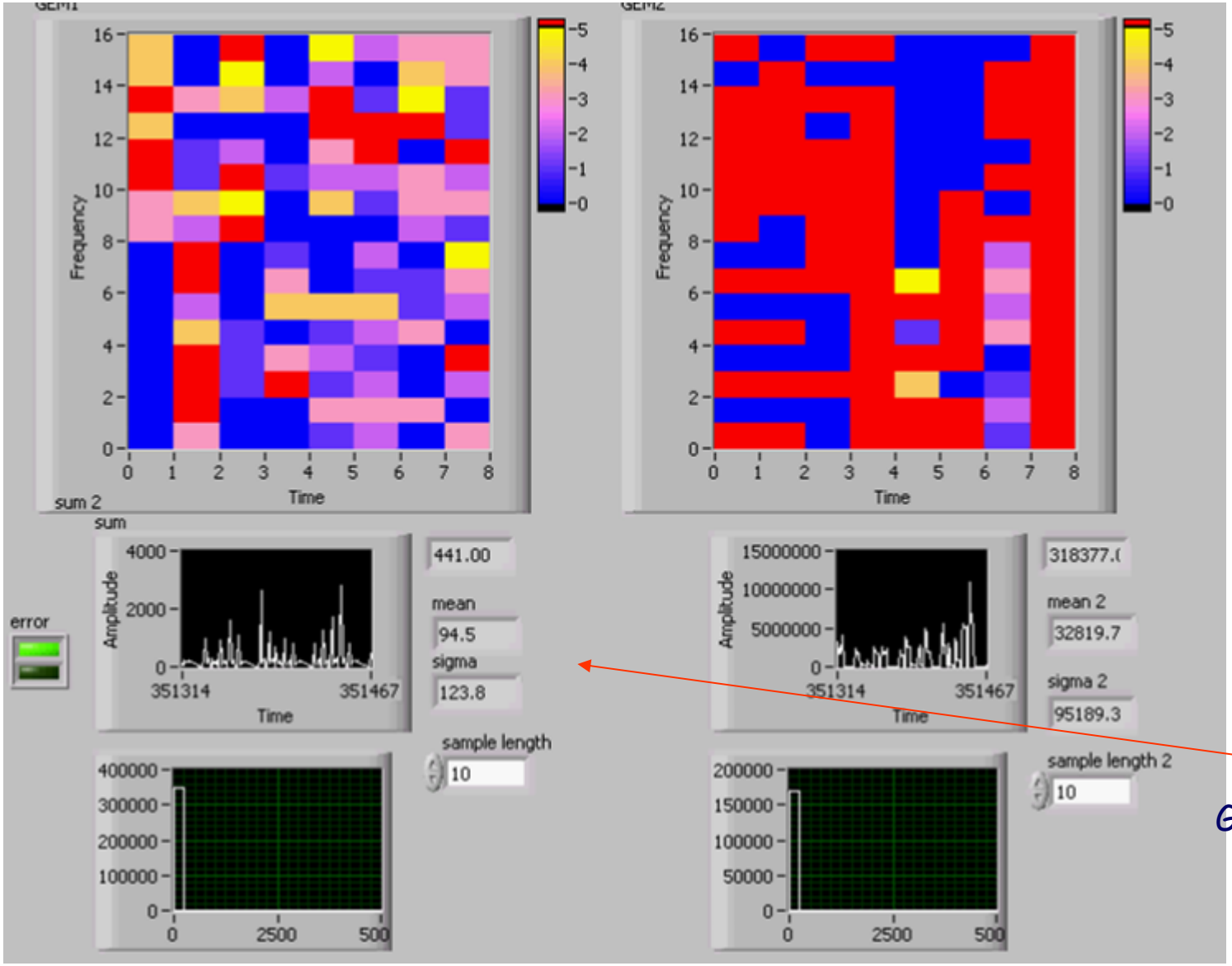
Detectors currents at 1200V without beam

All currents below few nA

currents on cathode



Beam ON with both det at 1200V

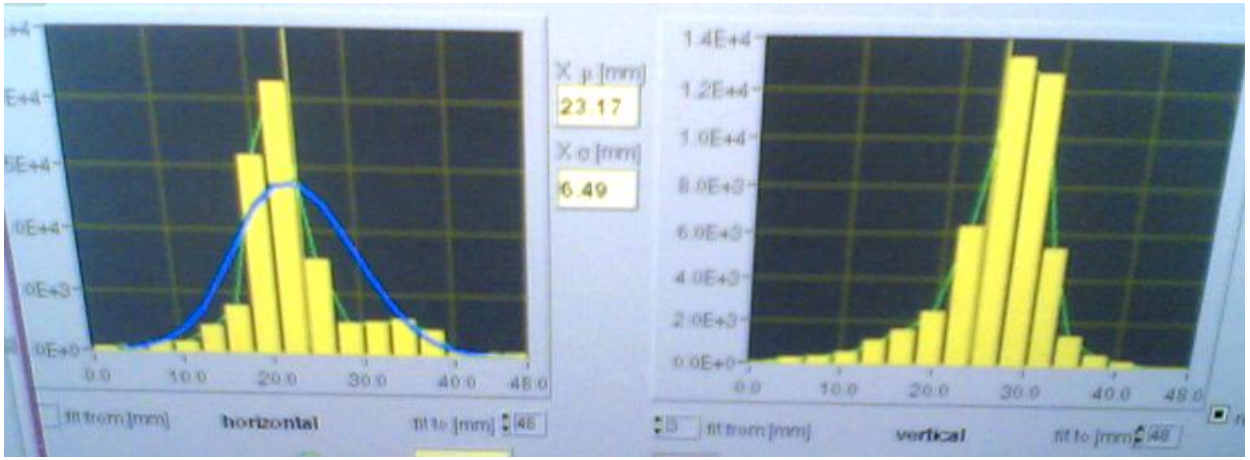


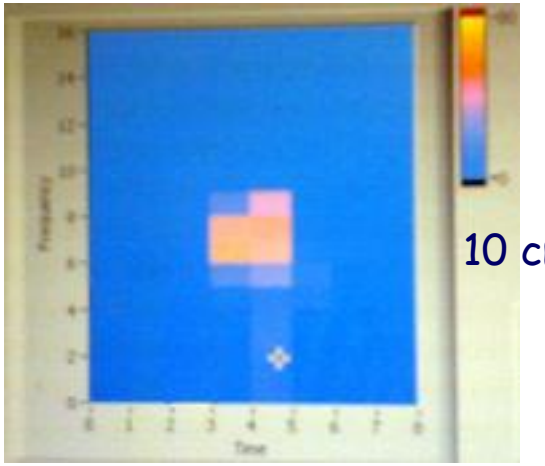
still problems on spatial distribution due to thr and LV

GEM1 working well

How they were at BTF Frascati

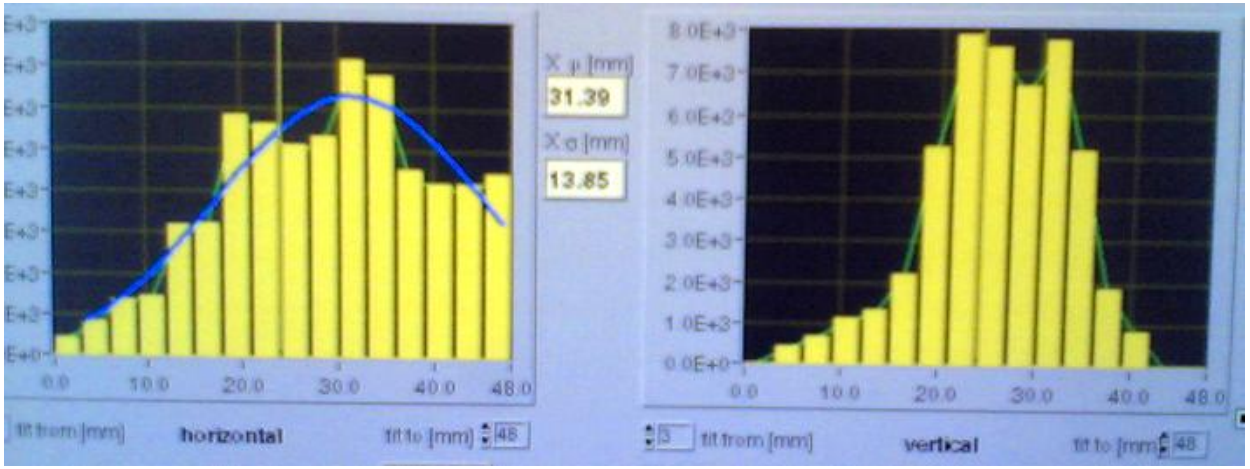
Beam profile at btf in two configuration : narrow and wide

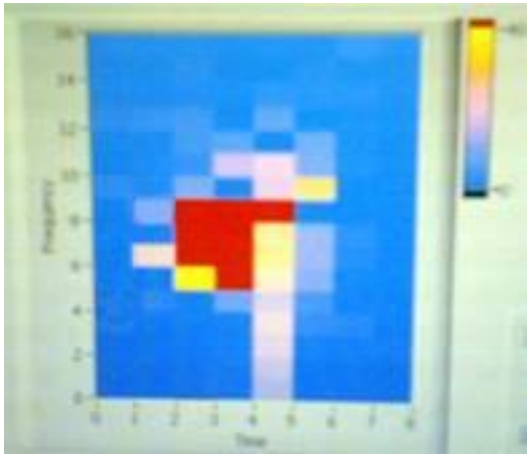




10 cm

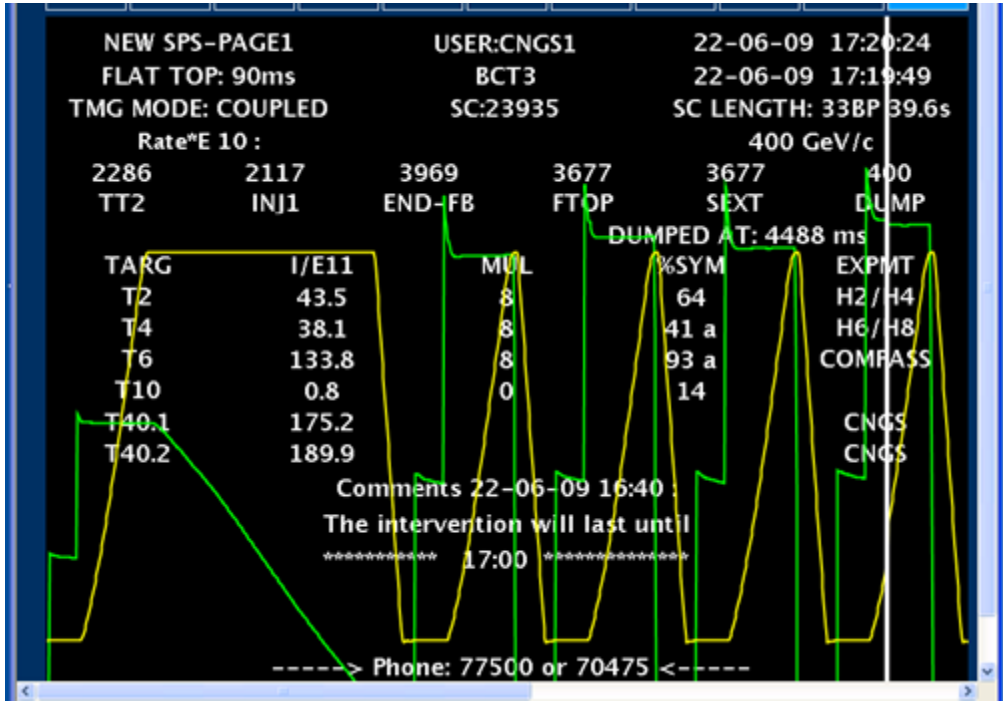
10 cm

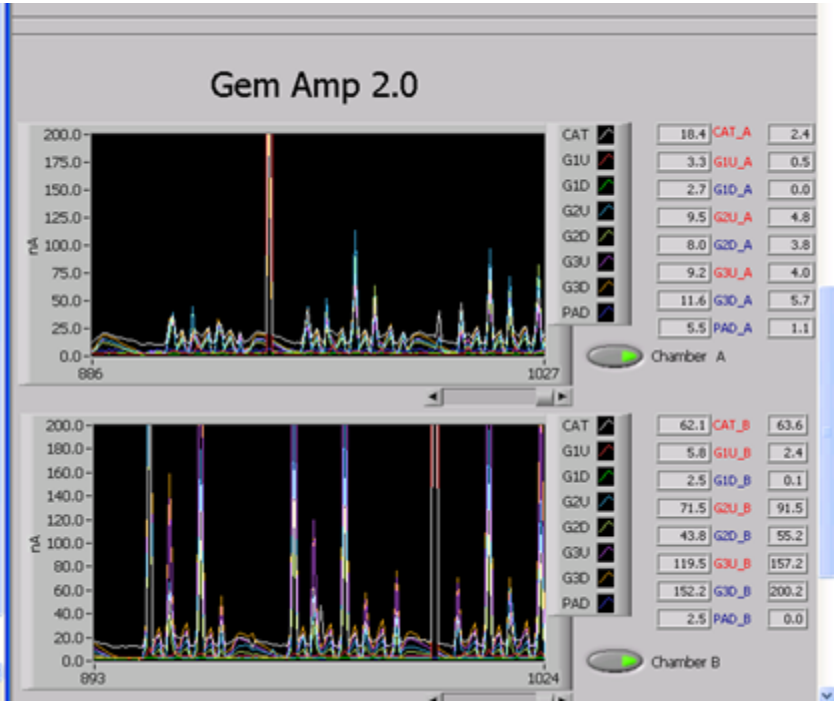




20090622 at 17:20

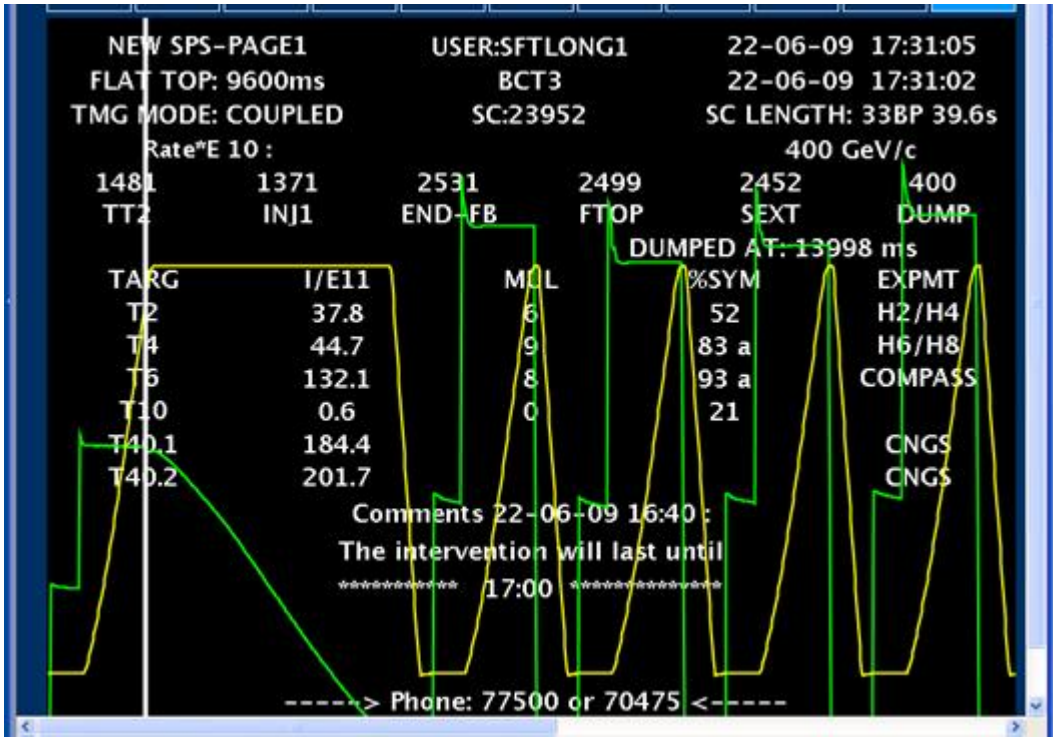
GEM currents (both GEM1 and GEM2)

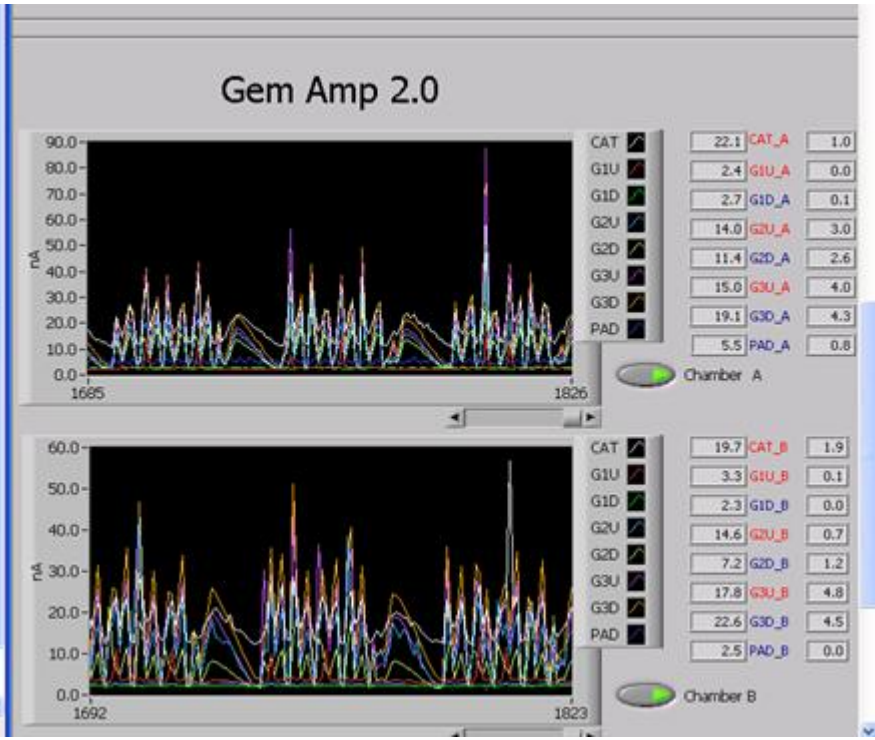




20090622 at 17:31

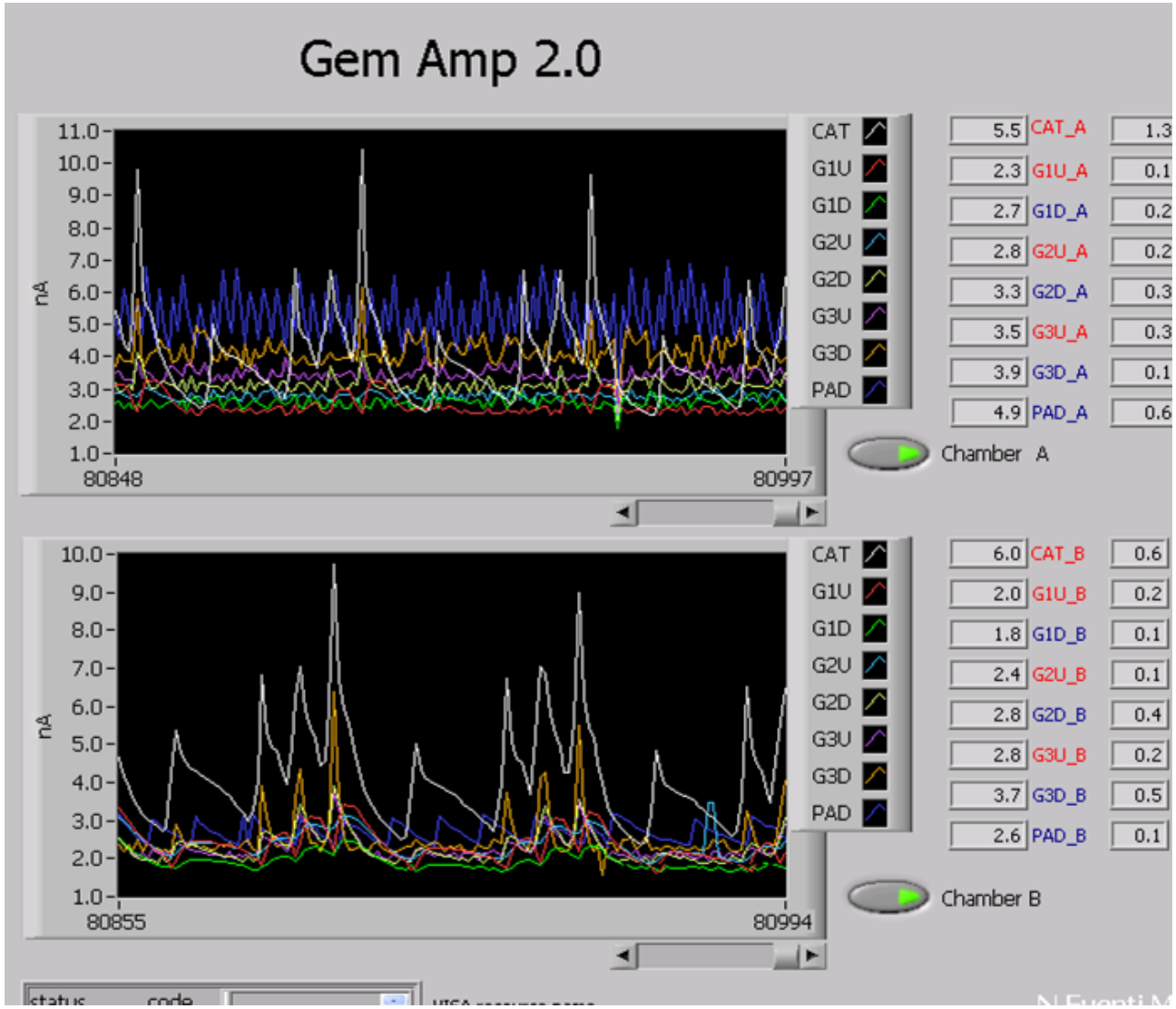
GEM currents (both GEM1 and GEM2)





Currents with detector OFF 20090623 11:10

Beam ON



some current induced on cathode (< 11 nA)

Next works for GEM Detectors

- OFFLINE
  - analyze the data taken on June 22nd
- ONLINE
  - insert the SPS current values in the RUN data
- HARWARE
  - "analog" readout working well
  - still problems on LV and thresholds (GEM2, something also on GEM1)
  - change the local LV cables with the screened ones (1 July or 14 July)
  - test of LV power supply with long cable at Frascati
  - change the gas flux meter with one more sensible
  - possibility to switch gas electro-valve on/off remotely