

# Summary of last week (April 23) activities

## Status of the MPD readout

- I checked a few long HM cables that were causing multiple APV25 configuration problem
  - Use new HMDI testing tool that Chuck brought
  - Found 2 cables with problem and replace them with UVa 10 m long cable that I borrowed from our stock ⇒ **Have to join two 10m cables to have the 20 m length of the other INFN cables**
- Also brought back the patch panel for 4-slots backs (using couple UVa HDMI) plane for J0,
  - to be able to read all APV25
- I was then able to fix a few of the bad configured APVs but not all of them

## Status of the GEM HV power supply

- I brought UVa CAEN NIM module from the Hall D GEM TRD test to power one layer
  - We are able to apply HV to all 3 INFN GEM layers now
- I ramp up the HV slowly at 3900 V as indicated in the INFN manual
  - **All 9 modules safely hold the HV with the expected current through the divider for several hours**

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## First attempt at cosmic data

- Start the gas flowing in all 2 layers and try to look at the initial cosmic data
- The APV data were extremely noisy with huge fluctuation of the baseline
- Spend a few hours of trying to identify the source of the noise, with Evaristo's help
- Turns out that the mini VME crate for the HV power supply was the source of the noise and I have to find a way to ground it properly
- Was not able to see cosmic signal but this is probably because of the APV noise issue

## Plans this week

- Fix the noise issue => proper grounding of the mini crate
- There is some work to be done on the second rack by Chuck and then the crate can be inserted on it
- First look at cosmic signal expected