

Activities in EEL CL124: UVa GEMs

- **Assembly of GEM layer #3 completed:**
 - Back planes and short HDMI's mounted tested OK ⇒ Two 12-slots remained to be mounted and tested next Tuesday
 - HV cables mounted and Gas tubing also mounted ⇒ N2 Gas is flushing the chamber since Wednesday
 - Plan to perform HV tests on the 4 modules of the layer next week ⇒ probably on Tuesday after we setup the Wiener crate
 - After the HV tests, if everything is OK, we will move the layer to the cosmic stand
- **Long HDMI cables: Tests choice and procurement completed**
 - Completed the comparative tests of the HDMI ⇒ **(see Thir slides)**, it was a very useful training exercise for Thir,
 - We settled for the cheaper HDMI cables as it turn out that they also show the best performance for the tests we made
 - ⇒ Slightly lower overall pedestal noise and no visible attenuation of the signal when compared to other cables
 - ⇒ Though the few channels of larger pedestal noise (typical with APV25) have a slightly larger noise than the other type of cables
 - Mark already put a request for the purchase of the HDMI long cables ⇒ expect to have the first batch in a few weeks
- **GEM HV Power Supply from UVa to JLab:**
 - Move the HV Wiener crate + a few modules to JLab next Tuesday 16 ⇒ Will need to be registered into JLab network and reconfigure
 - Then we can start testing HV of the modules in layer #3 as well as the first 2 layers (total 12 modules) sometime next week.
 - We are moving a electronic second rack in the clean room for this HV crate and the future MPD crates etc ...
- **Brian Moffit to provide support for MPD DAQ / readout / software:**
 - Bryan agrees help us the system for a full GEM layer (4 GEMs and 7 MPDs) and configure CODA and the APV25 and fully test the layer and the DAQ with cosmic
 - Will also implement the more recent version of the MPD firmware (but not the one with SSP readout) and the his more advanced libraries for the APV configuration including troubleshooting, debugging messages etc ...
 - We will have Thir working closely with Bryan to get trained even further and he will probably set up a second layer later as he is ready to do so
 - Bryan involvement will start only after we receive the long HDMI cables (we can not do anything without these cables)