

GEM detector Meeting

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Update on CODA-based GEM DAQ

- MPD firmware version is upgraded to 4
- Bryan makes the MPD library working – Thanks!!
- Will use JLab trigger interrupt, not the V965 – TIR (old TI); TI (new TI)
- Available CODA-Readout-List (CRL) – **TIR-V965**, TI-MPD, TI-V965-MPD, TI-V965, **TI-MPD**, TI-V965-MPD (Red were existing, Black are written in last JLab visit)
- TIR will be used in the main PREX/CREX experiment
- Acquired pedestal data using 18 APV cards.
- Need data decoder - working

Update on 10x20 GEM detector

- Tested the resistances ('OL') and capacitances (6 nF) of six segments of the detector
- High voltage test in air: All foil holds 530 V – The chamber is clean
- Drill holes in the G10 board for SHV and BNC connectors
- Soldering the voltage divider circuit and other components are going on.

Hopefully we'll have working 10x20 GEM by end of next week..

Update on 10x10 GEM detector

- Two 10x10 GEM detectors are working
- Trying to make a third 10x10 GEM detector working - running out of GEM foil

Plan for work at Stony Brook

- Tao will work on SRS system and continue quartz studies using two GEM detectors
- I'll work on CODA-GEM DAQ and develop the decoder using the 10x20 GEM.