2020-02-19: Activities in EEL CL124: UVa GEMs

- **GEM layer#5 moved into the cosmic stand:**

  - We used the lift structure that we put together with the help of the Hall C machine sop team (Walter Kelner) ⇨ 5th layer on the moving lift structure

  - Step next is to complete the assembly (Long HDMI cables, HV and gas tubing etc) ⇨ then HV test the 5th layer once again in N2

  - Plan to start cosmic data with the 5 layers in a week or so now ⇨ Main reason for the delay is explained below

- **Cosmic data with 4 GEM layers:** (See Thir slides)

  - Continue to debug the mapping configuration file ⇨ Thir is getting help from Danning

  - Looks like we still have a small issue to address with misconfigured APV25 and a

  - **Looking at the raw APV25 frames is crucial when we are taking cosmics to avoid days of runs with badly configured APV25 cards or other problems**

- **Our DAQ Computer crashes last week (Friday)**

  - Looks like a serious problem under investigation with the Jlab CC crews ⇨ They are trying to re-install the OS but with no guarantee that it will solve the problem

  - Looks like the data we took so far will be recovered as they are on a separated disc than the PC hard disk, same for the CODA installation

  - **We probably need an interim PC** to resume data taking activities if the fix of our current computer is taking too long

- **Meeting with DSG Feb 18, 2020 for update on SBS Gas System:**

  - SBS Gas System: Minutes of DSG meeting Feb 18, 2020

  - UVa stand with 5th layer to be used for the test of the gas system **anytime from mid March to June** depending on when the DSG crew is ready

  - Evaristo: Is the NFN setup also ready to go ahead with the switch and when is the good timescale for that?

- **Update on the U-V strip FT GEMs at UVa:**

  - Expect the shipment of the GEMs and R/O from CERN this week ⇨ Delivery at UVa a week or two later

  - Getting the equipment for the GEM assembly in the clean room ready ⇨ parts of the refurbished stretching structure produced in the machine shop

  - Design of the new N2 box for GEM foils HV test is ongoing