The MINERνA Operations Report
All Experimenters Meeting

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DAQ

- Running weekday day shifts
  - Goal is to keep the DAQ running and check the data
    - PEDs & LI runs
  - The DAQ is running well.
  - All FEBs & PMTs are operating properly.

DAQ

- We were having “Deserialization Lock” Error
  - At some point, the chips used to transmit data in an FEB daisy chain lost their synchronization to transmit data.
  - Happened on most of the PED runs, but not on the LI runs. This provided the clue to solve the problem
  - The problem caused the run to stop The DAQ was able to recover and skip to the new sub run.
- The problem was solved. Some CROC-Es were getting two triggers for the same event during PED runs.
- We fixed the error by having the same trigger for LI and PED runs.

CROC-E Firmware Upgrade

- We will be doing a firmware upgrade for the CROC-Es
  - Cristian Gingu & Boris Baldin, PPD EED
  - This will pass the CRC word (cyclic redundancy check) for all the frames to check that there is no problem with the data. We have been checking it in the after reading data out a chain, but this enables us to check it for all raw data.
  - We will do this firmware upgrade when we feel confident in the upgrade.
    - Probably in 2-3 weeks.

CROC-E Firmware Upgrade

- This will require the CROC-Es be brought to the 14th floor to do the firmware upgrade.
  - 1st replace 7 CROC-Es in Crate 1 with modified CROC-Es.
  - Bring the DAQ back up
    - We will be off for a couple of hours
  - Install the new firmware in these CROC-Es, this will take a day or 2.
  - 2d replace CROC-Es in Crate 0 and bring the system back up
    - Again off for a couple of hours
- We will be off by about 4-5 hours during the upgrade.