# Status of CEDARs (1/2)

- Missing mechanical parts for PMT housings
  - Will be produced by workshop in Illinois, expected in approx.
    3 weeks

#### Installation

- Signal cables assembled & installed
- LV & HV assembled, installation today afternoon
- HV crate installed, already (or soon) in DCS; using modules from FI55 (E-pool has none available)
- Fibers for gain monitoring installation along with HV & LV cables
- Old PMTs still not connected
- Old DAQ not connected, will set up tomorrow (except for PMTs)
- Fibers for DAQ installed

### PMT characterization

- On-going, need to measure gain vs HV for each PMT
- Still working of software for data acquisition using scope
- Expected to start measurements this afternoon. Time to measure single PMT, incl. setup of the base – approx. 40 min.

# Status of the CEDARs (2/2)

## • Electronics

- Verified full path up to TDC (i.e. base, discriminator, summing circuits) – all is working, seeing nice signals
- Good SNR at nominal PMT gain, can trigger on single photon pulses
- TDCs already in CERN. Some problem with firmware, Igor will start working on them on May 15<sup>th</sup>

#### Plan

- Setup current PMTs for operation. Use outputs of currently installed discriminator and supply them to TDCs in parallel to the old DAQ.
  - Will need ECL -> LVDS converter for this. Will check E-pool if they have one
- Take bases back to Warsaw for assembly.
  - Will send them to CERN after assembly and testing
- Plan for PMT replacement during MD on Jun 6<sup>th</sup>, with long MD as backup.