ECal Assembly, Installation and

Commissioning Plans v1.1

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**Assembly of the calorimeters (done)**

* All channels are checked with pulsed light
* ECal moved to the hall
* ECal Mounting structure installed

**ECal Installation (done)**

* Mount the top ECal in up position
* Install the mock-up vacuum chamber
* Place the top calorimeter at its working position
* Mount and place the bottom ECal
* Test the movements of the ECal when taken out
* Reinstall the real ECal vacuum chamber and come back to working position
* Survey position and glue the stoppers for security in the future

**Connections (on going, planned to end by Oct 24)**

* Install and connect the chiller (done)
* Install and connect LV/HV (on going)
* Connect the LED controllers (done)
* Connect to DAQ (on going)

**ECal Commissioning**

* Off beam commissioning in Hall B (from 15 Oct to installation of target)
  + Test data acquisition
  + Take LED test data that will serve as reference to monitor gain variation of the system during the run
  + Take Cosmic ray data. We expect a rate of about ~50 mHz → ~5 hours runs for calibration of all channels
  + Establish a first calibration map for FADCs (To be improved while we run longer cosmic runs)
* With low current beam (2 first days of beam)
  + Verification of rates in the crystals with target : measurement of Coulomb scattering (>kHz) of electrons of known energy
  + Adjust the various ADC thresholds on FADCs accordingly
  + Verification of the trigger rates of the different triggers