

# Ecal Assembly, Installation and Commissioning Plans v1.1

Author and contact : Raphaël Dupré

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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  $\sim 50$  mHz  $\square$   $\sim 5$  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 ( $> \text{kHz}$ ) of electrons of known energy
  - Adjust the various ADC thresholds on FADCs accordingly
  - Verification of the trigger rates of the different triggers