

ECal Commissioning

Assembly and Installation

- Assembly of the calorimeters (done)
- All channels are checked with pulsed light (done)
- ECal moved to the hall (week of 09/01)
- ECal Mounting structure installed (week of 09/22)
- Connections (2 weeks from 09/29)
 - Install and connect the chiller
 - Install and connect LV/HV ("manual" control)
 - Connect the LED controllers
 - Connect to DAQ

ECal Commissioning

Installation on mounting structure in Hall B (week of 09/22)

- Take reference marks on vacuum chamber and detector with the help of a mockup vacuum chamber
- Place the calorimeter on its mounting system
- Reinstall the ECal vacuum chamber
- Make precise placement of the Ecal using previous marks to keep away from the chamber
- Survey its final position

ECal Commissioning

Off beam commissioning in Hall B

- Test data acquisition (week of 10/13)
 - 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 \rightarrow ~ 5 hours runs for calibration of all channels
- Establish a first calibration map for FADCs
(To be improved while we run longer cosmic runs)

ECal Commissioning

With low current beam

- Verification of rates in the crystals with target
- Measurement of Coulomb scattering gives high rates ($>$ kHz) of electrons of known energy
 - Gives good fast calibration but miss the sides of the detector other methods will be used for the sides (SVT track based & π^0)
- Adjust the various ADC thresholds on FADCs accordingly
- Verification of the trigger rates of the main trigger and other triggers