

Electromagnetic Calorimeter Working Group Charge and Work plan

During the CMS SLHC Upgrade Workshop (21/05/2008) at CERN (<http://indico.cern.ch/conferenceDisplay.py?confId=28746>) ECAL presented a status report on the issues of ECAL at SLHC. Concerning the SLHC Phase 1 Upgrade the main issues which were identified during this workshop are:

- necessity to develop of a new optical interface of the ECAL Off Detector Electronics with the Regional Calorimeter Trigger electronics (based on microTCA electronics)
- radiation effects to the Endcap crystals and photo-detectors for luminosity of $\sim 2 \times 10^{34} \text{ cm}^{-2} \text{ s}^{-1}$

Since the CMS SLHC Upgrade Workshop (21/05/2008) at CERN progress has been made on:

- definition of a common R&D program with HCAL on microTCA electronics
- study of ageing effects on the VPTs photo-cathode

The goals of the ECAL working group meetings during the FNAL workshop are:

- review the progress made on the definition of the microTCA R&D program with HCAL
- review the progress on the photo-cathode ageing effects measurements
- define the work plans for the next six months in view of the next CMS SLHC Upgrade Workshop which will take place in May 2009 (both on crystals and photo-detectors for EE and new ECAL optical interface with RCT).
- identify the platforms requested to perform crystal irradiation tests, photo-device study and electronics development with microTCA
- identify the required resources for this 6-month period (manpower and budget)

The proposal for the working group sessions is:

- Wednesday afternoon: crystals and photo-detectors (review and discussion on the work plans)
- Thursday morning: common meeting with HCAL on microTCA (review and discussion on the work plans)
- Friday morning: summary remarks and action plans preparation