

# Operation and performance of the LHCb calorimeter system

*Monday 2 October 2017 11:50 (20 minutes)*

The LHCb calorimeter system plays a key role in the hardware trigger of the experiment and also serves the measurement of radiative heavy flavor decays and neutral mesons. Placed 12 meters from the interaction region, the system is composed of four elements: a plane of scintillating tiles followed by a pre-shower detector used for particle identification, a shashlik ECAL and a sampling HCAL.

The main part of the talk will be devoted to the presentation of the technical and operational aspects of these detectors. Emphasis will be put on the monitoring and correction of radiation induced effects as well as on the energy calibration. In a second part, the reconstruction of calorimeter objects and the neutral PID tools will be presented. Achieved performance will be reported using benchmark decay modes.

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**Session Classification:** Calibration & operation