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The CMS ECAL Database services for detector control and monitoring

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The Electromagnetic Calorimeter (ECAL) of the CMS experiment at the LHC
is made of about 75000 scintillating crystals.
The detector properties must be continuously monitored
in order to ensure the extreme stability and precision required by its design.
This leads to a very large volume of non-event data to be accessed continuously by
shifters, experts, automatic monitoring tasks, detector configuration for trigger and
data acquisition systems and offline data reconstruction programs.
This talk describes the measurements and calibrations taken for slow control,
the data handling strategy and the workflow as well as the architecture of the
configuration and conditions databases.
An important component of the system is the so-called web based browser, a software tool
used by shifters and experts to visualize the data on a web browser and to keep the detector under control.

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Primary authors: CAVALLARI, Francesca (INFN sezione di Roma 1); ORGANTINI, Giovanni (Univ. + INFN Roma 1)

Co-authors: DAVID, Andre (LIP); BRETT, Angela (ETH Zurich); DI MARCO, Emanuele (INFN sezione di Roma 1 and CERN); HAMEL DE MONCHENAULT, Gautier (Centre d'Etudes de Saclay (CEN Saclay)); DELLA RICCA, Giuseppe (INFN sezione di Trieste); CHEVENIER, Guy (CERN); DE ALMEIDA SIMOES, Joao (CERN and Universidade de Lisboa); MARONE, Matteo (INFN sezione di Torino); PAGANINI, Pascal (LLR - Ecole Polytechnique); MUSELLA, Pasquale (LIP); EGELAND, Rick (University of Minnesota); ARCIDIACONO, Roberta (INFN sezione di Torino); BERTHON, Ursula (LLR - Ecole Polytechnique); TIMCIUC, Vladlen (California Institute of Technology); BADGETT, William Junior (Fermi National Accelerator Lab. (Fermilab)); WAN, Zongru (Fermi National Accelerator Lab. (Fermilab))

Presenter: ORGANTINI, Giovanni (Univ. + INFN Roma 1)

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