

The CMS electron and photon trigger for the LHC Run 2

The CMS experiment implements a sophisticated two-level triggering system composed of Level-1, instrumented by custom-design hardware boards, and a software High-Level-Trigger. A new Level-1 trigger architecture with improved performance is now being used to maintain the thresholds that were used in LHC Run I for the more challenging luminosity conditions experienced during Run II. The upgrades to the calorimetry trigger will be described along with performance data. The algorithms for the selection of final states with electrons and photons, both for precision measurements and for searches of new physics beyond the Standard Model, will be described in detail.

Primary authors: BORNHEIM, Adi (On behalf of the CMS ECAL Collaboration); MENG, Fanbo (University of Notre Dame, on behalf of the CMS Collaboration)

Presenter: MENG, Fanbo (University of Notre Dame, on behalf of the CMS Collaboration)

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