

# Electron and photon measurement with the CMS detector

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## Please give a brief summary of your poster

Electrons and Photons play a crucial role at LHC in several fields. They are essential in at least two of the Higgs decay channels, they can be signatures of the decay of new heavy bosons, they play a role in supersymmetry and are of course central in the reconstruction of electroweak and QCD processes. Clean identification and excellent energy and momentum resolution were given high priority in the design of the CMS detector. The instrument, featuring a finely grained, high-resolution electromagnetic calorimeter and excellent tracking performances, is well equipped for the task of measuring these particles with high precision. In this contribution we will describe the CMS electron and photon identification and reconstruction capabilities.

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