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Electron and Photon reconstruction and identification with the CMS detector in pp collisions at $\sqrt{s} = 7$ TeV

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The performance of electron and photon reconstruction and identification has been studied at $\sqrt{s} = 7$ TeV. Reconstruction and identification variables as well as isolation and photon conversion rejection variables, in the case of electrons, have been compared between data and Monte Carlo for signal and background. Electron and photon identification efficiency, electron fake rate and photon purity have been determined and compared with Monte Carlo predictions. For electrons the momentum resolution as well as charge identification have also been studied. Level 1 Trigger and High Level Trigger efficiencies have been measured.

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