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Measurement of the inclusive Z production cross section with the CMS detector

First measurements of inclusive Z production cross sections in muon and electron decay channels at 7 TeV are presented for proton-proton collisions in the Compact Muon Solenoid (CMS) detector at the Large Hadron Collider (LHC). The comparison of the kinematic quantities as well as the studies of selection efficiencies demonstrate a good agreement between simulated events and current data. The measured inclusive cross section for $Z(\gamma^*)$ production agrees with NNLO QCD cross section calculations and current parton distribution functions.

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