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Status and Prospects of the CMS experiment

ANDREW ASKEW, Florida State University

The start-up of the Large Hadron Collider (LHC) will open the door on a wide vista of physics at high energy, allowing for studies on the nature of electroweak symmetry breaking, and possibly physics beyond the Standard Model. The LHC will provide proton-proton collisions at a center-of-mass energy of 7 TeV in 2009, and 10 TeV thereafter (with an ultimate collision energy of 14 TeV). The Compact Muon Solenoid (CMS) experiment is a general-purpose experiment optimized to take advantage of a wide range of physics opportunities in the LHC environment. The detector construction is complete, and a large sample of cosmic ray events has been acquired for detailed commissioning studies, which will continue with the LHC beam. This report will update the current status of the CMS experiment, the functioning performance of its subsystems, and the prospects for early measurements in the early LHC data.