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CMS experiment status & first results

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After nearly two decades of design, construction and commissioning, the CMS detector was operated with colliding LHC proton beams for the first time in November and December 2009. Collision data was recorded at centre-of-mass energies of 0.9 and 2.36 TeV, and analyzed with a fast turn-around time by the CMS collaboration. In this talk I will present a selection of commissioning results and striking first physics resonances observed. Then I will discuss the analysis of the transverse momentum and rapidity distribution of charged hadrons, which led to the first CMS physics publication. The excellent performance of the CMS detector and agreement with predictions from simulation are impressive for a collider detector at startup and show a great potential for discovery physics in the upcoming LHC run.

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Classification de Session: The LHC start-up

Classification de thématique: Experiment