

Overview of Heavy-Ion Results from CMS at LHC

Wednesday, 14 November 2012 14:30 (30 minutes)

The heavy-ion collisions at the Large Hadron Collider (LHC) are expected to generate the partonic matter with unprecedented density and temperature. It will provide us an ideal environment to study the quantum chromodynamics (QCD), the theory of the strong interaction, in unexplored kinematic domain and the effect of high-density QCD matter on the particle production. The Compact Muon Solenoid (CMS) experiment at LHC is excellent for not only p+p collisions, but also heavy-ion collisions. The CMS has collected about 8 inverse microbarn in 2010 and about 160 inverse microbarn in 2011 for Pb+Pb collisions. The improved statistics allow us to analyze various rare probes as well as the bulk properties in detail. We will review the recent experimental data for Pb+Pb collisions obtained by the CMS collaboration.

Keywords

CMS, LHC, QCD, Heavy-ion collision

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Session Classification: Plenary IA (Chair Yu-Gang Ma)