Heavy Ion Physics with CMS

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Abstract

Physics capabilites of CMS (Compact Muon Solenoid) at the CERN LHC Large Hadron Collider) running with Heavy Ion Beams will be presented.

Production of the Υ family mesons will be measured, as a strong suppression of the production of heavy quark bound states has been predicted in case of QGP formation. Jet reconstruction even for the highest multiplicity events is possible allowing studies of the hadronic environment in which hard partons propagate in the early stages of the collision.