

Abstract Submitted  
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**Sensitivity for the Discovery of Supersymmetry in the Leptons plus Jets** YURIY PAKHOTIN, B. SCURLOCK, University of Florida, CMS COLLABORATION — Preparations are underway to search for possible signatures of Supersymmetry (SUSY) in the inclusive leptons plus jets and missing transverse energy (MET) as well as semi-inclusive topologies involving same-sign dimuon final states, using the Compact Muon Solenoid (CMS) experiment at the Large Hadron Collider. This talk reports on the expected performance of CMS, using a full simulation of the detector, and studies its effect on SUSY discovery potential. The primary background sources to SUSY are expected to arise from QCD multijets, top anti-top, and W/Z production. Strategies for reducing this background, both from the online CMS trigger and from offline data analysis, as well as understanding and controlling systematic uncertainties, are presented.

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