## Abstract Submitted for the SES11 Meeting of The American Physical Society

Search for a Fourth Generation t' Quark via Wb Decays into a Lepton Plus Jets Final State in 7 TeV pp Collisions<sup>1</sup> CHARLES JENKINS, University of South Alabama, CMS COLLABORATION — The CMS Experiment at the LHC is currently observing 7 TeV center of mass energy pp collisions. One of the many beyond the standard model searches being conducted by CMS is for evidence of a fourth generation top-like quark (t'). If this object exists, it is expected to decay as:  $t' \to W$  b. In pp collisions the top-like quark would be produced with its anti-quark (pp $\to$ t't $^-$ ' $\to$ W+bW-b $^-$ ). This search looks for this decay where one of the W bosons decays leptonically (W $\to$ lepton neutrino) and the other hadronically (W $\to$ qq $^-$ ). This analysis studies two channels: muon+jets and electron+jets. Results from a sample of 684 pb-1 muon+jets and 573pb-1 electrons+jets will be presented.

<sup>1</sup>This work is supported in part by DoE Grant DE-FG02-96ER40970

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Date submitted: 24 Aug 2011 Electronic form version 1.4