Contribution ID: **152** Type: **parallel talk**

Multi-lepton signals from the top-prime quark at the LHC

Tuesday 8 May 2012 14:45 (15 minutes)

Abstract:

We analyze the collider signatures of models with a vector-like top-prime quark and a massive color-octet boson. The top-prime quark mixes with the top quark in the Standard Model, leading to richer final states than ones that are investigated by experimental collaborations. We discuss the multi-lepton final states, and show that they can provide increased sensitivity to models with a top-prime quark and gluon-prime. Searches for new physics in high multiplicity events are an important component of the LHC program and complementary to analyses that have been performed.

Author: MCCASKEY, Mathew

Presenter: MCCASKEY, Mathew

Session Classification: Top III

Track Classification: Top Physics