Contribution ID: 129 Type: not specified

## Discovery Potential for Di-lepton and Lepton+Etmiss Resonances at High Mass with ATLAS

Thursday 30 July 2009 15:20 (20 minutes)

The discovery potential for a heavy new resonance decaying into di-lepton pairs, or into a high pT lepton and missing ET, using the ATLAS detector at the LHC is presented. Due to the simplicity and robustness of the the di-lepton (or lepton+ETmiss) final states, they are ideal channels in which to search for new physics. The unprecedented center-of-mass energy available at the LHC allows for the exploration of mass regions that are inaccessible to present-day colliders. The prospects for discovering physics beyond the Standard Model with an integrated luminosity in the range between 100 pb-1 and 10 fb-1 are discussed.

Author: Ms PEDRAZA, Isabel (High Energy Physics-Department of Physics-University of Wisconsi)

Presenter: Ms PEDRAZA, Isabel (High Energy Physics-Department of Physics-University of Wisconsi)

Session Classification: Beyond the Standard Model III

Track Classification: Beyond the Standard Model