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Electron Vetos and Taus at ATLAS

Wednesday, 10 August 2011 15:00 (18 minutes)

I will present strategies used to separate electron signatures from tau lepton signatures with the ATLAS detector, one of the general purpose detectors on the LHC ring at CERN. Taus can decay leptonically, to electrons or muons and neutrinos, or hadronically, to a number of neutral and charged hadrons and neutrinos. These decays happen before the taus reach the inner-most layer of the detector, thus the work of recognizing the tau decay products is challenging. As electron and QCD signatures resemble those of taus, vetos must be applied. The results of those cut-based and multivariate electron veto techniques will be shown.

Primary author: Ms BEDIKIAN, Susie (Physics Department-Yale University)

Presenter: Ms BEDIKIAN, Susie (Physics Department-Yale University)

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