

Special Day!

Special Time!

LEPP Journal Club

Wednesday, February 29, 2012. 3:30 pm (3:15 refreshments)
301 Physical Sciences Building



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Search for anomalous production of like-sign muon pairs at ATLAS

Pairs of high- p_t leptons with the same electric charge are rarely produced in the Standard Model, but are predicted to occur with an enhanced rate in many new physics scenarios. I will present an inclusive, model-independent search for anomalous production of prompt like-sign muons at ATLAS, using 1.6 fb^{-1} of integrated luminosity. The dimuon mass distribution is examined and constraints are placed on the dimuon production cross section. The inclusive search is further interpreted within a few different new physics models.

