

Note Special Day!

LEPP Journal Club

Wednesday, February 1, 2012. 4:00 pm (3:45 refreshments)
301 Physical Sciences Building



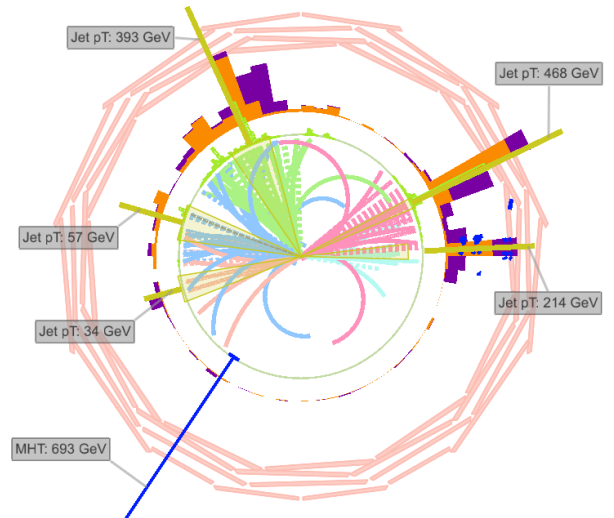
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CMS Supersymmetry Searches: Yesterday & Tomorrow



CMS Experiment at LHC, CERN
Data recorded: Tue Oct 26 07:13:54 2010 CEST
Run/Event: 148953 / 70626194
Lumi section: 49



In only two years time, the LHC experiments carried out a plethora of searches, placing stringent limits on the existence of new physics beyond the Standard Model at the TeV scale.

Starting from an example of an inclusive search for a dark-matter candidate with the CMS detector, I discuss how the implications of the current results for theories like supersymmetry lead to an evolution of the search strategies. With even more LHC data expected shortly, rare production modes, and the naturalness itself of supersymmetric models, will be put to the test.



LEPP, the Cornell University Laboratory for Elementary-Particle Physics, has joined with CHESSE to become the Cornell Laboratory for Accelerator-based Sciences and Education (CLASSE). LEPP's primary source of support is the National Science Foundation.

