“Search for New Physics with Large Missing Energy and Multijet Signature at the Large Hadron Collider”

The world's most powerful accelerator, the Large Hadron Collider, started to deliver proton-proton collisions since the last year. Counter-rotating beams of protons smash head-on into each other in a 27 km long circular tunnel to produce unknown new massive particles (or so we hope). Everything from black holes, extra space-time dimensions, dark matter and other exotica may be produced. The dark matter particles are expected to pass through the detectors without a trace, and result in the imbalance in observed energy, called missing energy. I will present a search for dark matter particles in the LHC data collected in 2010 by the Compact Muon Solenoid Experiment in the large missing energy and multiple jets signature.

Monday, May 2, 2011
3:30 p.m.
Room A.202, Baylor Sciences Building

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