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Search for New Physics using boosted Z bosons at CMS

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Through the analysis of data from 7 & 8 TeV centre-of-mass energy pp collisions at the Large Hadron Collider (LHC) in CERN, the LHC experiments have been expanding the frontiers of particle physics into the TeV energy regime. In addition to the discovery of a Higgs-like boson last year, there are many searches for Beyond the Standard Model (BSM) theories at the Compact Muon Solenoid (CMS) experiment. Several BSM theories predict the production of highly boosted Z bosons in the LHC pp collisions, for example from the decay of a new heavy particle. In this talk, I will present my work on the search for such boosted Z boson events with the CMS detector.

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