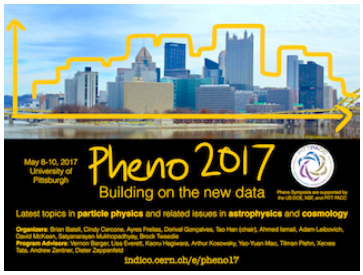

Contribution ID: **291** Type: **parallel talk**

Search for new resonances decaying into W, Z and H bosons at CMS

Monday, 8 May 2017 16:45 (15 minutes)

Beyond the standard model theories like Extra-Dimensions and Composite Higgs scenarios predict the existence of very heavy resonances compatible with a spin 0 (Radion),spin 1 (W', Z') and spin 2 (Graviton) particle with large branching fractions in pairs of standard model bosons and negligible branching fractions to light fermions. We present an overview of searches for new physics containing W, Z or H bosons in the final state, using proton-proton collision data collected with the CMS detector at the CERN LHC. Many results use novel analysis techniques to identify and reconstruct highly boosted final states that are created in these topologies. These techniques provide increased sensitivity to new high-mass particles over traditional search methods.

Summary

CMS diboson searches (resonances decaying into W, Z and H bosons) will be discussed.

Primary author: LEE, Sung Won (Texas Tech University (US))

Presenter: LEE, Sung Won (Texas Tech University (US))

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