



Contribution ID: 6

Type: **not specified**

Search for diboson resonances at CMS

Monday, July 17, 2017 12:00 PM (20 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 photons, W , Z or H bosons in the final state, using proton-proton collision data collected with the CMS detector at the CERN LHC. Many analyses use techniques to identify and reconstruct highly boosted final states that are created in these topologies.

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Session Classification: Searches