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**Exploring exotic symmetry breaking scenarios in the di-boson (WZ) channel at the LHC** EDGAR CARRERA, Boston University — An electroweak symmetry breaking mechanism, in which there is no elementary Higgs particle, is a possibility well worth exploring at the Large Hadron Collider (LHC). Theories such as the Minimal Higgsless Model (MHLM) or Technicolor (TC) predict the production of heavy resonant particles decaying into a pair of Standard Model gauge bosons ($WZ$), promising clean multi-lepton signatures. We present a study of such scenarios (MHLM and TC) in the electron- and muon-decay channels using the Compact Muon Solenoid detector for proton-proton collisions at $\sqrt{s} = 10$TeV.

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