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Search for heavy resonances at the LHC (ED, HVB, etc...)

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Many extensions to the Standard Model predict new phenomena occurring at high mass. These include new scalar or vector resonances, as well as new heavy fermions. This talk will summarize recent searches for such heavy particles based on 13 TeV pp collision data collected by the ATLAS and CMS experiments at the LHC. They cover new heavy resonances decaying into dibosons (including W, Z, photon, or Higgs bosons), vector-like quarks (including both single and pair production), and new heavy leptons. In addition to discussing the main results obtained, this talk will also explain the experimental methods used, including top-quark, vector- and Higgs-boson-tagging techniques used to identify decay products in the highly boosted regime.

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