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Search for heavy resonances in diboson final states at CMS

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The large dataset collected so far during Run 2 of the LHC at a centre-of-mass energy of 13 TeV provides a significantly improved sensitivity for discovery of new physics with respect to Run 1. Searches for new resonances in di-boson final states (VV, VH, HH, where V = W, Z) with the CMS detector are presented. The analyses are optimised for high sensitivity over a large range in resonance mass. Jet substructure techniques are used to identify hadronic decays of highly-boosted W, Z, and H bosons.

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