

Symmetry restored in dibosons at the LHC?

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A number of LHC resonance search channels display an excess in the invariant mass region of 1.8 - 2.0 TeV. Among them is a 3.4 sigma excess in the fully hadronic decay of a pair of Standard Model electroweak gauge bosons, in addition to potential signals in the HW and dijet final states. We present a model-independent cross-section fit to the results of all ATLAS and CMS searches sensitive to these final states. We then interpret these results in the context of a Left-Right Symmetric Model, and show that a heavy right-handed gauge boson W_R can naturally explain the current measurements with just a single coupling $g_R \sim 0.4$.

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