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Search for anomalous triple gauge couplings in semileptonic WW and WZ decays with CMS

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The LHC Run II with a center-of-mass energy of 13 TeV has opened new doors for searching possible effects of physics beyond the standard model. New physics can be parametrized by the addition of higher dimensional operators to the Standard Model Lagrangian in the so called Effective Field Theory approach.

In this poster we summarize an analysis which focuses on operators in the electroweak sector which lead to anomalous triple gauge couplings (aTGC). The analysis deals with the WW/WZ final states in the semileptonic decay channel where boosted topology is used for the hadronic decay. We present 1-D and 2-D limits on aTGC parameters, with the limits being the most stringent experimental limits to date.

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