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Constraints on CP-violating couplings of the Higgs boson using its decay to fermions in the CMS experiment

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A study of anomalous Higgs boson couplings and CP violation is presented using the Higgs boson decay mode with a pair of fermions in the final state. Associated production of the Higgs boson with two jets is used in this analysis, which is driven by the VBF, VH, and gluon fusion production mechanisms. Constraints on the anomalous couplings and CP-violating parameters are obtained by the CMS experiment with the Run-II data.

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