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Search for Higgs pair-production in the $b\bar{b}\tau\tau$ final state with the ATLAS detector

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A search for Higgs pair-production where one Higgs decays to $b\bar{b}$ and other Higgs to two tau leptons at the ATLAS experiment is presented. Both the lephad and hadhad decay modes of the final state taus are included. Results are interpreted in the context of Randall-Sundrum graviton and 2HDM models in the case of resonant production, and as enhancements compared to SM predictions of non-resonant Higgs pair-production. The results use data recorded by the ATLAS experiment at $\sqrt{s} = 13$ TeV during 2015 and 2016.

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