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Higgs pair production in the $\gamma\gamma b\bar{b}$ final state at $\sqrt{s} = 13$ TeV with the CMS detector

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The production of pairs of Higgs bosons provides us unique information on the Higgs sector and on the mechanism underlying electroweak symmetry breaking. This poster will present the search for the resonant and non-resonant production in the production of a pair of Higgs bosons, where one decays into two photons and the other one into a bottom quark-antiquark pair. The analysis used proton-proton collision data at $\sqrt{s} = 13$ TeV recorded in 2016 by the CMS detector at the LHC, corresponding to an integrated luminosity of 35.9 fb⁻¹.

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