

HH combinations from CMS

Wednesday, November 9, 2022 5:30 PM (15 minutes)

At the LHC, a large range of different Higgs boson production modes and decay channels are studied. To obtain a full overview of the couplings between the Higgs boson and other particles, the data from these individual measurements of production and decay channels are combined. This is also the case for searches for HH production, where even more different final state combinations are possible, and where the best sensitivity is also reached by combining data from all these different channels. This talk focusses on the most recent combined measurements of single Higgs boson production and decay modes, as well as combined measurements of double Higgs boson production, with the CMS experiment. Constraints on the couplings between the Higgs boson and other SM particles, and on the Higgs boson self-interaction, will be presented.

Type of talk

Experimental measurements

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