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Search and prospects for HH production

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The production of pairs of Higgs bosons (HH) provides a direct handle on the structure of the scalar Higgs field potential and on the value of the Higgs boson trilinear coupling.

Although the HH production within the standard model (SM) is very small and out of the experimental reach with the current data, several beyond the SM theories predict an enhancement of the HH cross section or the existence of new resonances decaying into HH. These theories can be probed with the data collected so far at the LHC at $\sqrt{s} = 13$ TeV.

The status and the latest results of the searches performed by the ATLAS and CMS collaborations and the prospects

for future measurements of HH production will be presented.

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Classification de Session: The SM BEH

Classification de thématique: Experiment