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## Higgs couplings to fermions and bosons (including inclusive cross sections, coupling combinations, spin/CP measurements of couplings) at the LHC

*Sunday 5 September 2021 13:45 (20 minutes)*

With the full Run 2 pp collision dataset collected at 13 TeV, very detailed measurements of Higgs boson properties can be performed using its decays into bosons and fermions. At the same time, the search for double-Higgs production can profit for the large integrated luminosity to provide more and more stringent limits. This talk presents measurements of Higgs boson properties using decays into bosons and fermions and their combination, including production mode cross sections and simplified template cross sections, as well as their interpretations; and the searches for non resonant di-Higgs production, as well as their combination.

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