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Double Higgs production in composite two Higgs doublet model

Wednesday 10 July 2024 17:00 (15 minutes)

The precise measurement of the 125 GeV Higgs boson is one of the powerful ways to probe new physics. In particular, it is known that a large deviation from the SM predictions can appear in the di-Higgs production process e.g., via new physics effects of the triple Higgs boson coupling.

In this talk, we discuss the theoretical behavior of the di-Higgs production cross section in the composite two Higgs doublet model.

We then discuss how new particles of the model (additional Higgs bosons and heavy top quark partners) affect this process.

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