

Recent HH Results at CMS

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The production of Higgs boson pairs (HH) offers a unique opportunity to explore the structure of the Higgs field potential through the determination of the Higgs boson self interaction. Despite being an extremely rare process, with a predicted cross section of about 33 fb at a center-of-mass energy of 13 TeV, variations of the Higgs couplings, or the presence of heavy resonances, might enhance the production rate and hence reveal the presence of physics beyond the Standard Model. The most recent results on searches for double Higgs production, obtained from the CMS Collaboration with data collected at $\sqrt{s} = 13$ TeV, are here presented, with focus on the different decay channels explored and their combination.

Presenter: BRIVIO, Francesco (Universita & INFN, Milano-Bicocca (IT))

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