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Measuring the Properties of the Higgs Boson at CMS

After the announcement of a 125 GeV particle by the ATLAS and CMS collaborations on July 04, 2012, it became very important to study all the properties of this new particle (Higgs Boson). Measurements of the properties of the Higgs boson with a mass near 125 GeV will be presented. The results are based on data samples corresponding to integrated luminosities of up to 5.1/fb at 7 TeV and up to 19.6/fb at 8 TeV in proton-proton collisions at the LHC. The combined result for the measured mass, the best-fit signal for all the channels and different fits for couplings, using all the studied Higgs boson decay modes, will be described. We will also present the results obtained from the measurement of double ratios i.e. ratio of the branching ratios between different decay modes.

Summary

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