

Combined measurement of the Higgs boson couplings with ATLAS detector

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Higgs boson plays a fundamental role in Standard Model. The precise measurement of Higgs couplings can help us have a better understanding of SM and explore potential new physics beyond it. The combination method can give us a higher precision and sensitivity, which is an essential experimental way. In this talk, I will present combined measurements of Higgs boson production and decay using up to 140 fb^{-1} of proton-proton collision data collected by the ATLAS experiment at 13 TeV centre of mass energy, which is the latest results from ATLAS Higgs working group.

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