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Type: **Talk**

Overview of Higgs boson coupling measurements and their interpretations at the ATLAS experiment

Tuesday 6 September 2022 12:40 (20 minutes)

Very detailed measurements of Higgs boson properties and its interactions can be performed with the full Run 2 pp collision dataset collected at 13 TeV, shining light on the electroweak symmetry breaking mechanism. This talk presents the latest measurements of the Higgs boson coupling properties by the ATLAS experiment in various bosonic and fermionic decay channels, as well as their combination. Results on production mode cross-sections, Simplified Template Cross Sections, and their interpretations are presented. Specific scenarios of physics beyond the Standard Model are tested, as well as a generic extension in the framework of the Standard Model Effective Field Theory, and in the framework of an Effective Field Theory.

Is this abstract from experiment?

Yes

Name of experiment and experimental site

ATLAS

Is the speaker for that presentation defined?

Yes

Details

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Internet talk

Maybe

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