

30th International Symposium on Lepton Photon Interactions at High Energies



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Type: **Parallel session talk**

Combined Higgs boson measurements and their interpretations in Effective Field Theories and new physics models with the ATLAS experiment

Tuesday, January 11, 2022 5:22 PM (16 minutes)

Combining measurements of many production and decay channels of the observed Higgs boson allows for the highest possible measurement precision for the properties of the Higgs boson and its interactions. These combined measurements are interpreted in various ways; 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. The latest highlight results of these measurements and their interpretations performed by the ATLAS Collaboration will be discussed.

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Session Classification: Precision SM Measurements

Track Classification: Standard Model