



Contribution ID: 200

Type: Talk

Searches for Higgs boson pair production with the full LHC Run 2 dataset in ATLAS

Tuesday, 24 August 2021 13:00 (30 minutes)

The latest results on the production of Higgs boson pairs (HH) in the ATLAS experiment are reported, with emphasis on searches based on the full LHC Run 2 dataset at 13 TeV. In the case of non-resonant HH searches, results are interpreted both in terms of sensitivity to the Standard Model and as limits on κ_λ , i.e. a modifier of the Higgs boson self-coupling strength. Searches for new resonances decaying into pairs of Higgs bosons are also reported. Prospects of testing the Higgs boson self-coupling at the High Luminosity LHC (HL-LHC) will also be presented.

Details

GRUNDY, James Cameron; Oxford; james.grundy@st-hildas.ox.ac.uk

Is this abstract from experiment?

Yes

Name of experiment and experimental site

ATLAS

Is the speaker for that presentation defined?

Yes

Internet talk

Maybe

Primary authors: WU, Yusheng (University of Science and Technology of China (CN)); GRUNDY, James Cameron (University of Oxford (GB))

Presenter: GRUNDY, James Cameron (University of Oxford (GB))

Session Classification: A High Energy Particle Physics