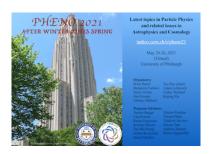
Phenomenology 2021 Symposium



Contribution ID: 1173 Type: Higgs

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

Tuesday 25 May 2021 14:00 (15 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 kappa_lambda, 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

Summary

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Session Classification: Higgs I