



Contribution ID: 128

Type: **Talk**

Search for di-Higgs production at 13 TeV and prospects for HL-LHC

Saturday, 5 September 2020 09:00 (30 minutes)

The latest results on production of Higgs boson pairs at 13 TeV by the ATLAS experiment are reported, including a combination of six different decay modes. Results include $b\bar{b}t\bar{t}$, $b\bar{b}b\bar{b}$, $b\bar{b}g\bar{g}$, $b\bar{b}W\bar{W}$, $W\bar{W}W\bar{W}$ and $W\bar{W}g\bar{g}$ final states, and they are interpreted both in terms of sensitivity to the SM and as limits on κ_λ , a scaling of the triple-Higgs interaction strength. Future prospects of testing the Higgs self-couplings at the High Luminosity LHC (HL-LHC) will also be presented.

Is this abstract from experiment?

Yes

Is the speaker for that presentation defined?

Yes

Name of experiment and experimental site

ATLAS, <http://atlas.cern/>

Internet talk

Yes

Details

Jana Schaarschmidt

Primary authors: ATLAS COLLABORATION; SCHAARSCHMIDT, Jana (University of Washington (US))

Presenter: SCHAARSCHMIDT, Jana (University of Washington (US))

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