

Probing the Higgs Boson Trilinear Self-Coupling with ATLAS (and ATLAS+CMS)

Friday, 31 October 2025 14:20 (20 minutes)

This talk presents results from searches for Higgs boson pair production using the full Run 2 dataset collected with the ATLAS detector at the LHC. Projections for the High-Luminosity LHC (HL-LHC) are also discussed. In addition, the upcoming combined ATLAS+CMS results on the Higgs boson trilinear self-coupling, expected to provide the most stringent constraints to date, will be covered in this talk if they were published before this conference.

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