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Prospects for single- and di-Higgs measurements at the HL-LHC with the ATLAS and CMS experiments

The High-Luminosity LHC (HL-LHC) is expected to deliver an integrated dataset of approximately 3 ab^{-1}, enabling detailed studies of Higgs boson processes with unprecedented precision. Projections based on current analyses have been performed to estimate the expected measurement accuracy and identify potential limitations. The large data sample will also significantly enhance sensitivity to di-Higgs production, providing access to the Higgs boson self-coupling. This talk will present the ATLAS and CMS experiments' prospects for Higgs and di-Higgs measurements at the HL-LHC.

Secondary track

Authors: COLLABORATION, ATLAS; COLLABORATION, CMS

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