

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

Wednesday 6 November 2024 13:30 (20 minutes)

The large dataset of about 3 ab⁻¹ that will be collected at the High Luminosity LHC (HL-LHC) will be used to measure Higgs boson processes in detail. Studies based on current analyses have been carried out to understand the expected precision and limitations of these measurements. The large dataset will also allow for better sensitivity to di-Higgs processes and the Higgs boson self coupling. This talk will present the prospects for Higgs and di-Higgs results with the ATLAS detector at the HL-LHC.

Primary track

Higgs physics at future colliders

Is the speaker a PhD student or post-doc?

No

Presenter: WANG, Alex Zeng (University of California,Santa Cruz (US))

Session Classification: Common session: HH & future colliders 1 - sal IV

Track Classification: Higgs physics at future colliders