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Type: Talk

ATLAS physics prospects for HL-LHC

Tuesday, July 18, 2023 5:00 PM (20 minutes)

With a start of data-taking scheduled in 2029, the High-Luminosity LHC (HL-LHC) will extend the LHC program to the first half of the 2040???s with pp collisions at s = 14 TeV, with an expected integrated luminosity of 3000 fb1 for the ATLAS experiment. Its physics programme will directly benefit from the large luminosity to be collected, improved systematic uncertainties as well as from new trigger and reconstruction techniques made possible thanks to the detector Phase-2 upgrades. The most recent physics prospects from the ATLAS collaboration will be summarized in this contribution, covering in particular Higgs physics, Standard Model precision measurements and Beyond the Standard Model searches, and emphasizing how new techniques and detector capabilities will be critical in achieving these goals.

Is this abstract from experiment?

Yes

Name of experiment and experimental site

ATLAS

Is the speaker for that presentation defined?

No

Details

N/A

Internet talk

Maybe

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