



Contribution ID: 559

Type: poster

ATLAS Higgs physics prospects at the high luminosity LHC

Run-I at the LHC has been very successful and included the discovery of a new particle with mass of about 125 GeV compatible within uncertainties with the Higgs boson predicted by Standard Model. In this talk, the Higgs physics prospects at the high-luminosity LHC are presented, assuming an energy $\sqrt{s} = 14$ TeV and a dataset of 300 and 3000/fb. In particular, the ultimate precision attainable on the couplings measurements of the 125 GeV particle with elementary fermions and bosons is discussed.

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Track Classification: Higgs and New Physics