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## **ATLAS Higgs physics prospects at the high luminosity LHC (12' + 3')**

*Saturday 6 August 2016 09:30 (15 minutes)*

The Higgs physics prospects at the high-luminosity LHC are presented, assuming an energy of  $\sqrt{s} = 14$  TeV and a data sample of 3000 fb<sup>-1</sup>.

In particular, the ultimate precision attainable on the couplings measurements of the 125 GeV particle with elementary fermions and bosons is discussed, as well as perspectives on the search for the Standard Model di-Higgs production, which could lead to the measurement of the Higgs boson self-coupling.

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**Session Classification:** Higgs Physics

**Track Classification:** Higgs Physics