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Physics of the Higgs boson at the LHC

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The discovery of a Standard-Model-like Higgs boson was a major highlight of the LHC Run 1. The ATLAS and CMS experiments have each made significant progress in understanding the properties of this boson using the full Run 1 dataset, taken at center-of-mass energies of 7 and 8 TeV. In this talk, I will review the major production and decay modes of the Higgs boson at the LHC, and present a selection of the latest results from both experiments, including measurements made on the discovered boson as well as searches for additional Higgs-like states. I will briefly discuss prospects for these measurements and searches using data from the upcoming LHC Run 2 at a center-of-mass energy of 13 TeV.