

The Higgs Boson from the Discovery to Precision Measurements

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Abstract: In July of 2012, the ATLAS and CMS Experiments announced a major scientific breakthrough: the discovery of a new particle consistent with the Higgs boson predicted by the Standard Model of particle physics. In the last 8 years, a lot of progress has been made in understanding the properties of this special particle. In this seminar, I will give an introduction to the Higgs boson and its role in the Standard Model of particle physics, describe the accelerator and experiments that study this particle, review what we have learned in the last 8 years, and finally describe what are the next steps in understanding the properties of this particle.

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