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Higgs: theory review

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2012 has been an extremely exciting year for particle physics. The Large Hadron Collider (LHC) at CERN discovered a new particle: the Higgs boson. In this talk I review the properties of this newly discovered particle. In particular, I will present the basics of electroweak symmetry breaking in the Standard Model (SM), that lead to the Higgs discovery. After that, I will discuss how New Physics (NP) beyond the SM can affect the Higgs phenomenology. In particular I will focus on some of the decay channels that could be easily affected by NP: the decay into two b quarks and into two photons.

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