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Past present and the possible future in precision Higgs phenomenology

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The discovery of a Higgs like boson in Run I of the LHC kicked off a vigorous effort to systematically develop the theoretical formalism of a model-independent approach to precision Higgs physics. The idea is to have a general theoretical framework that can interpret consistently any deviation in the properties of the Higgs without guessing the underlying theory. It has also become clear that incorporating previous precision data, primarily from LEP, is also an essential task in developing a consistent theoretical framework for a true SM effective theory. I will discuss the current state of the art in this approach and how the theoretical formalism is being developed further in anticipation of the Run II data set.

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