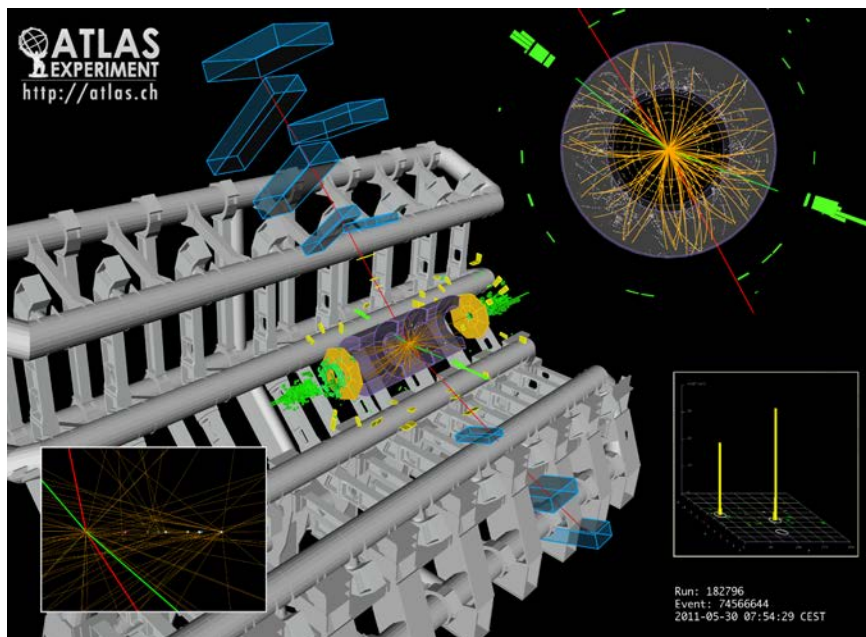


# *Discovery of a New Boson at the LHC*

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On 4<sup>th</sup> July the two general-purpose experiments ATLAS and CMS at the *Large Hadron Collider* (LHC) at CERN have announced the discovery of a new particle in the search for the Standard Model Higgs boson. This discovery may constitute a major milestone in the exploration of one of the fundamental puzzles of physics: how is the electroweak symmetry broken and how do the fundamental fermions and the vector bosons W and Z acquire mass. So far all observations are consistent with the hypothesis that the discovered particle is the long-sought Higgs boson.

In the present talk the evidence for the discovered particle is discussed in several important final states. In addition, recent studies are presented to determine the parameters of the particle and thereby its nature.