

## Atlas and CMS discover Higgs (2012)

In 2012 it was finally possible to see the Higgs particle in experiments. Two equally significant experiments, ATLAS and CMS, were used. These facilities are situated at CERN, just outside Geneva in Switzerland.

The clocks depict these experiment facilities. One clock showing Atlas, the other showing CMS. In the middle of the clocks Higgs reigns. At the outer ends of the pointers are photons. These are created when protons are made to collide in the experiments.

The Higgs particle has been observed primarily through two different decompositions. In one decomposition the Higgs particle directly transforms into two electrons. In the other decomposition Higgs transforms into two Z-particles that subsequently decompose to four leptons. Leptons are shown as green particles in the artwork on the Standard model.