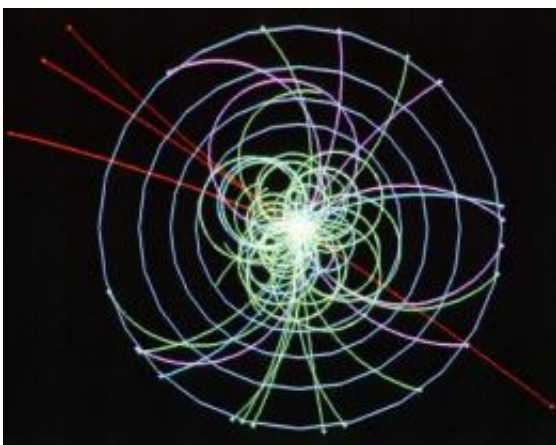


# CERN plans to announce latest results in search for Higgs boson particle

December 13 2011

---



Scientists' impression of the Higgs boson

(PhysOrg.com) -- Physicists collaborating on experiments at the Large Hadron Collider (LHC) at CERN – the European Organization for Nuclear Research in Geneva – will announce their latest results in the search for the Higgs boson particle on Tuesday 13 December.

The LHC works by accelerating two beams of protons to almost the speed of light. The protons collide together 40 million times a second, recreating the conditions of the universe immediately after the Big Bang, and enabling scientists to reconstruct fundamental particles produced at that time.

Since research started at the [LHC](#) nearly two years ago, scientists have been working to determine whether the [Higgs boson](#) particle exists. The Higgs boson is the final undiscovered particle of the Standard Model of particle physics and is a crucial ingredient in our understanding of the mass of many elementary particles

Scientists from both the ATLAS and CMS experiments at [CERN](#) will present their latest findings in the search for the Higgs at a seminar on Tuesday. The findings are based on more than 300 trillion high-speed particle collisions over the past year.

The event will be broadcast live here:

[indico.cern.ch/conferenceDisplay.py?confId=164890](http://indico.cern.ch/conferenceDisplay.py?confId=164890)

**Update: Possible signs of the Higgs remain in latest analyses**

[www.physorg.com/news242988821.html](http://www.physorg.com/news242988821.html)

Provided by University of Liverpool

Citation: CERN plans to announce latest results in search for Higgs boson particle (2011, December 13) retrieved 9 April 2024 from <https://phys.org/news/2011-12-cern-latest-results-higgs-boson.html>

<p>This document is subject to copyright. Apart from any fair dealing for the purpose of private study or research, no part may be reproduced without the written permission. The content is provided for information purposes only.</p>
--