



Media Advisory | For Immediate Release | December 6, 2011

Public Invitation: Canadian Seminar at TRIUMF Update on the Higgs Search by Experiments at CERN

(Vancouver, BC) --- A seminar will be held at TRIUMF on December 13, 2011, at 2:30 p.m. to share an update on the search for the Standard Model Higgs boson by two experiments at the CERN Large Hadron Collider (LHC). Canadians are heavily involved in the ATLAS experiment, and the TRIUMF laboratory made important contributions to the construction of the LHC. The seminar is part of a larger workshop on ATLAS and the LHC being held at TRIUMF.

These results will be based on the analysis of considerably more data than those presented at conferences this past summer---sufficient to make significant progress in the search for the Higgs boson but not enough to prove the existence or non-existence of the Higgs. The Canadian seminar will closely follow the results presented at a CERN seminar taking place in the early morning on the same day in Geneva, Switzerland.

The public seminar will begin at 2:30 p.m. Pacific Time in the TRIUMF auditorium. The seminar will be led by Robert McPherson, spokesperson of the ATLAS Canada collaboration, a professor of physics at the University of Victoria, and Institute of Particle Physics research scientist. At about 3:30 p.m., representatives from TRIUMF and ATLAS Canada will be available to take questions. The results will also be presented and discussed at other Canadian ATLAS institutions.

The session will complete by 4:00 p.m. Registration by e-mail to communications@triumf.ca is requested but not required.

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FOR EDITORS:

CERN, the European Organization for Nuclear Research, is the world's leading laboratory for particle physics. It has its headquarters in Geneva. At present, its Member States are Austria, Belgium, Bulgaria, the Czech Republic, Denmark, Finland, France, Germany, Greece, Hungary, Italy, Netherlands, Norway, Poland, Portugal, Slovakia, Spain, Sweden, Switzerland and the United Kingdom. India, Israel, Japan, the Russian Federation, the United States of America, Turkey, the European Commission and UNESCO have Observer status. Canada has made important contributions to CERN's flagship accelerator, the Large Hadron Collider, and one of its associated particle physics detectors, the ATLAS experiment.

<http://cern.ch>.

The Large Hadron Collider or **LHC** is a particle accelerator which, at 27 kilometres in circumference, is the world's largest and most complex scientific instrument. The LHC is the world's most powerful particle accelerator, producing beams seven times more energetic than any previous machine, and around 30 times more intense when it reaches design performance, probably by 2013. It relies on technologies that would not have been possible 30 years ago. The LHC is, in a sense, its own prototype.

ATLAS is a worldwide collaboration comprising over 2,500 scientists and engineers from 178 institutions in 35 countries and regions. These are Armenia, Australia, Austria, Azerbaijan, Belarus, Brazil, Canada, China, Czech Republic, Denmark, France, Georgia, Germany, Greece, Hungary, Israel, Italy, Japan, Morocco, Netherlands, Norway, Poland, Portugal, Romania, Russia, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Taiwan, Turkey, United Kingdom and the United States of America.

ATLAS-Canada comprises about 150 faculty members, post-doctoral fellows and students from ten Canadian institutes: the University of Alberta, University of British Columbia, Carleton University, McGill University, Université de Montréal, Simon Fraser University, University of Toronto, TRIUMF, University of Victoria and York University. See <http://www.atlas-canada.ca>

TRIUMF is Canada's national laboratory for particle and nuclear physics. The laboratory's research focuses on advancing isotopes for science and medicine and probing the structure and origins of matter. Together with its partner AAPS, Inc., TRIUMF also seeks to commercialize its technologies for the benefit of all Canadians. Located on the south campus of the University of British Columbia, TRIUMF is owned and operated as a joint venture by a consortium of the following Canadian universities, via a contribution from the Government of Canada through the National Research Council: University of Alberta, University of British Columbia, University of Calgary, Carleton University, University of Guelph, University of Manitoba, McMaster University, Université de Montréal, University of Northern British Columbia, Queen's University, University of Regina, Saint Mary's University, Simon Fraser University, University of Toronto, University of Victoria, University of Winnipeg, and York University. See <http://www.triumf.ca>.