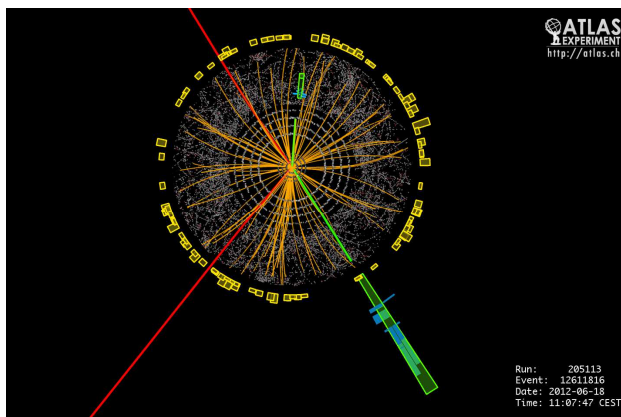


Southern Africa Association for the Advancement of Science
Suider-Afrika Genootskap vir die Bevordering van die Wetenskap

Public Lecture Series

The Higgs Boson: A Triumph for Particle Physics



- Speaker:** **Konstantinos Zoubos**
Department of Physics, University of Pretoria
- On:** Wednesday, 6 November 2013
- At:** 17:15 (to 18:15)
- Venue:** Sci-Enza, Hatfield Campus, University of Pretoria
(Note: Please use the Prospect Street entrance. See <http://s2a3.org.za/directions.php> for directions and a map.)

The quest for the Higgs boson is one of the grand success stories in Particle Physics. Predicted theoretically more than 40 years ago, its detection was finally announced at CERN in the summer of 2012, leading to the awarding of the 2013 physics Nobel prize to the theorists Peter Higgs and Francois Englert. The search for this elusive particle has not been without its frustrations, controversies and false leads, but the final discovery is without doubt a triumph of both theoretical deduction and experimental perseverance.

After reviewing the history of the Higgs particle, I will elaborate on its role as the cornerstone of the Standard Model of Particle Physics, provide some details of the experimental discovery and speculate on what new fascinating discoveries might still be in store as the LHC collider at CERN keeps pushing the energy frontier into unexplored territory.

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