



Contribution ID: 172

Type: Oral Presentation

## Higgs Searches with the ATLAS Detector Using Data Collected in 2010 at the LHC

*Thursday, 14 July 2011 08:45 (30 minutes)*

Experiments at the Large Hadron Collider (LHC) aim to address fundamental questions in particle physics such as the origin of mass for elementary particles, the matter/anti-matter asymmetry in the universe, the nature of Dark Matter, the state of matter in the early universe, etc. The ATLAS detector is one of the four major detectors being exploited at the LHC to shed some light on the questions. The Higgs boson is a hypothesized particle responsible for the elementary particle masses. In this talk, we will discuss the search strategies of the Higgs boson with the ATLAS detector at the LHC. In particular, we will present results based on the ATLAS data collected in 2010.

**Level (Hons, MSc, &nbsp; PhD, other)?**

PhD

**Consider for a student &nbsp; award (Yes / No)?**

No

**Would you like to <br> submit a short paper <br> for the Conference <br> Proceedings (Yes / No)?**

YES

**Primary author:** Dr ASSAMAGAN, Ketevi Adikle (Brookhaven National Laboratory)

**Presenter:** Dr ASSAMAGAN, Ketevi Adikle (Brookhaven National Laboratory)

**Session Classification:** NPRP

**Track Classification:** Track B - Nuclear, Particle and Radiation Physics