Title: Dr.

Lecturer: Bryan Dahmes

Date and Times:

- Thursday 21st July from 10:15 am to 11:00 am
- Friday 22nd July from 10:15 am to 11:00 am

Summary of the proposed talk: Triggers for LHC Physics

Summary of the Talk: An introduction to triggering at the LHC, focusing on the trigger setup at ATLAS and CMS. Some technical details will be provided as well as discussing how trigger choices influence (and are influenced by) physics analysis. Prerequisite knowledge: A general understanding of the LHC and its experiments, as well as the physics under consideration, as accumulated from previous lectures.

Prerequisite knowledge and references: -

Biography

Brief CV:

- PhD from the University of California at Santa Barbara, 2006
- Post-doctoral researcher for University of Minnesota
- Joined CMS collaboration in 2006 (as a graduate student, was a member of the Babar collaboration)

- Responsible for coordinating the online deployment and performance of the CMS High Level Trigger menus and managing a team of on-call HLT experts
- Served as a Trigger contact/liason for the CMS Electroweak physics group and HCAL detector performance group

- Involved in study of Z->ee differential cross section as a function of the Z rapidity
- Involved in search for heavy right-handed W boson decay requiring a heavy neutrino according to the Left-Right extension of the Standard Model

Publications:

- "Measurements of Inclusive W and Z Cross Sections in pp Collisions at sqrt(s)=7 TeV," (2010) arXiv:1012.2466v1 [hep-ex]
- "Commissioning of the CMS High-Level Trigger with Cosmic Rays," JINST 5, T03005 (2010) [arXiv:0911.4889 [physics.ins-det]]
- "Commissioning of the CMS High Level Trigger," JINST 4, P10005 (2009) [arXiv:0908.1065 [physics.ins-det]]