

# Collider Physics (Part 1)

*Tuesday 11 January 2011 15:00 (2 hours)*

- I. Setting the Stage ...Motivation for a Huge Machine
- II. The Large Hadron Collider (LHC)
- III. The ATLAS and CMS Experiments (and LHCb)
- IV. Proton-Proton Collisions and Standard Model Physics
- V. Higgs and Electroweak Symmetry Breaking
- VI. LHC Searches for Physics Beyond the Standard Model
- VII. Outlook

**Presenter:** HOECKER, Andreas (CERN)