

## Exotic Searches With Complex Final States

*Friday 31 July 2009 16:30 (40 minutes)*

A review of the discovery potential of the LHC for exotic phenomena involving complex final states is presented. Topics covered include searches for high mass di-boson resonances, fourth generation quarks, technicolor, black-holes etc. Challenges presented by unconventional final states involving long-lived particles predicted by hidden valley and other models are also discussed. The strategies being followed by the ATLAS and CMS experiments are described and prospects for discoveries using early data are presented.

**Author:** Prof. BOSE, Tulika (Boston University)

**Presenter:** Prof. BOSE, Tulika (Boston University)

**Session Classification:** Beyond the Standard Model IV

**Track Classification:** Beyond the Standard Model