University of Mumbai & Department of Atomic Energy
CENTRE FOR EXCELLENCE IN BASIC SCIENCES
Health Centre, University of Mumbai, Kalina Campus, Mumbai 400098

COLLOQUIUM

Particle Physics -- the best of times; the worst of times

Abstract: A brief history of the principal ideas behind the Standard Model and their successive verification will be discussed, culminating in the recent discovery of the Higgs boson. It will then be explained why the Standard Model cannot be a final theory, and some of its popular extensions will be reviewed. Finally, some of the expectations from the next run of the LHC will be briefly touched upon.

By

Prof. Sreerup Raychaudhuri
TIFR, Mumbai

Sreerup Raychaudhuri graduated from the Presidency College, Kolkata, and did his Master's and doctoral work at the University of Calcutta. He then worked as a postdoctoral fellow at TIFR, Mumbai and at CERN, Geneva, before joining the faculty at IIT, Kanpur in 1999. At the end of 2007, he moved to TIFR, where he is working at present. He is a theoretical high energy physicist, whose principal interest lies in physics beyond the Standard Model. As such, his research work has been principally on the physics of Higgs bosons, supersymmetry and extra dimensions. He retains an abiding interest in pedagogy.

Day & Date : **Tuesday, February 04, 2014**

Time : **15:45 hrs**

Venue : **Seminar Room PF-AG-14, Prefabs, Near Annabhau Sathe Bhavan University of Mumbai, Vidyanagari, Kalina Campus, Mumbai - 400 098**

All are Welcome