



# Physical Research Laboratory, Ahmedabad

## Colloquium 15-15

- Speaker:** Prof. Biswarup Mukhopadhyaya  
Harish-Chandra Research Institute, Allahabad, India
- Title:** "The Messiah of Mass and Message about More"
- Time:** Wednesday, 09 December 2015, 16.00 hrs.
- Venue:** K. R. Ramanathan Auditorium, PRL

### Abstract

The theoretical and experimental developments in the physics of elementary particles, which led to the discovery of the Higgs boson a few years ago, in briefly reviewed. It is thereafter indicated how the very existence of the Higgs boson can lead to possible new physics at the fundamental level.

### The Speaker

Prof. Biswarup Mukhopadhyaya did his B.Sc., M.Sc. & Ph.D. in Physics (Theoretical High Energy Physics) from the University of Calcutta and did post-doctoral research at the Oklahoma State Univ, and TIFR. He is a recipient of the S.S. Bhatnagar award, 2003, fellow of the National Academy of Sciences, Allahabad, and distinguished faculty Award - DAE, Govt. of India, 2015. He is one of the leading physicists involved in the CERN-India program for LHC related physics. In his long journey in exploring the physics of elementary particles, he had worked in many important and prestigious centres, including CERN, Geneva; Fermi Lab.; Univ. of Wisconsin; Univ. of California, Riverside; Oklahoma State Univ.; DESY, Hamburg; Univ. of Vienna; Univ. of Helsinki; IPMU, Japan.

The areas of his research is diverse which include supersymmetry, Higgs, extra dimensions, collider phenomenology, dark matter and neutrino physics. He has published over 150 papers in major national and international peer reviewed high impact factor journals with very high citation record. He has also edited two books. He is known for his teaching and has already guided a generation of students. He established 'Regional Centre for Accelerator-based Particle Physics' (RECAPP) at HRI whose contribution is not limited to the home centre alone. It often takes a decisive role by organising different schools and conferences on topical issues with a unique workshop style, which have benefited young active researchers in this field immensely.

Tea at 15:30 hrs.

**ALL ARE WELCOME**

