



Physical Research Laboratory, Ahmedabad

Colloquium 15-06

- Speaker:** Prof. Sourendu Gupta
Department of Theoretical Physics, TIFR, Mumbai
- Title:** "Hot stuff"
- Time:** Wednesday, 18 March 2015, 16.00 hrs.
- Venue:** K. R. Ramanathan Auditorium, PRL

Abstract

Hot strongly interacting matter once filled the universe, but in the last 14 billion years it has only been briefly produced in relativistic collisions of heavy ions. Its properties can be extracted from a quantum field theory using supercomputers. Now a collaboration of experiments and theory is beginning to test this connection accurately, I will describe what has been found, the context, and what we hope to gain in the next few years.

The Speaker

Prof. Sourendu Gupta received B. Sc. (1979) & M. Sc (1981) degrees from IIT Kharagpur and Ph.D. (1988) from the University of Mumbai. This was followed by post-doctoral research in IMSc (1988) Chennai, the University of Bielefeld, CERN Geneva (1988-90) and KFA Juelich (1992-93). In 1993 he joined TIFR, where he is currently a professor in the Department of Theoretical Physics. His main research interest involves quantum field theory at high temperature and density. Prof. Gupta was instrumental in setting up the nationwide collaboration called the Indian Lattice Gauge Theory Initiative (ILGTI), which brought together computing resources for lattice gauge theory in India which are competitive with those available to other large collaborations around the globe. Prof. Gupta is actively involved in developing and testing coursework which adds computational methods to the repertory of other techniques used to teach basic concepts of physics. Prof. Gupta is a fellow of the Indian National Science Academy, New Delhi & the Indian Academy of Sciences, Bangalore. He is a recipient of the J. C. Bose Fellowship. Prof. Gupta has published more than 150 papers in peer reviewed journals.

Tea at 15:30 hrs.

ALL ARE WELCOME

