

# Colloquim # 245

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*Title: Discovery of Quark Gluon Plasma*

*Speaker : Dr. D. K. Srivastava*

*Affiliation : FNASc*

*Distinguished Scientist & Director*

*Variable Energy Cyclotron Centre, Kolkata*



## *About the speaker:*

Dr. D.K.Srivastava is a distinguished Scientist and Director at VECC Kolkata. He is also a senior professor and convener of Board of studies (physical science) at Homi Bhabha national institute. He did his schooling in Uttar Pradesh. He attained Bachelor degree of Science- 1970 from University of Allahabad, Uttar Pradesh, with first Division in Physics, Chemistry, and Mathematics. He attained his Doctorate in 1979, from University of Bombay. In 1971 he joined Batch of Training School at Bhabha Atomic research center . He worked in VECC division of BARC. Dr. Srivastava was awarded as the outstanding referee by American Physical Society (APS) in 2009. He was also a Member of Editorial Board of Physical Review C, January 1, 2010 - December 31, 2012. His present research includes Electromagnetic probes of quark gluon plasma (QGP), Relativistic hydrodynamics, Emission of thermal photons and dileptons from QGP Production and propagation of charm quarks in QGP, Transverse flow, formation, thermalization, and chemical equilibration of QGP Intensity interferometry of thermal photons, Signals of QGP Hadronization of QGP, Parton cascade model for relativistic heavy ion collisions, Passage of jets through quark gluon plasma, Dilepton tagged jets, Elliptic flow of electromagnetic radiations, and equation of state of strongly interacting matter.

*Abstract:* A brief introduction to quark gluon plasma, which filled the Universe soon after the Big Bang. We discuss the building of LHC and various detectors for its discovery and characterization. Finally we discuss various signatures of the formation of quark gluon plasma in relativistic heavy ion collision of nuclei and future directions.

## *Schedule:*

*Date: 13th January 2015*

*Time: 3:30 PM*

*Venue: IPR, Seminar Hall*