



DAE-BRNS sponsored

# QGP Meet 2012

July 3-6, 2012

Variable Energy Cyclotron Centre  
1/AF Bidhan Nagar, Kolkata



VECC

Quantum Chromodynamics (QCD), the theory of strong interactions suggests that nuclear matter melts down to deconfined quarks and gluons at high temperatures (more than 130,000 times sun's core temperature) and/or densities (more than  $10^{39}$  protons in a volume of one cubic centimeter). By colliding heavy ions (such as Au on Au or Pb on Pb) in laboratory conditions at the Relativistic Heavy Ion Collider (RHIC) at Brookhaven National Laboratory and the Large Hadron Collider (LHC) at CERN, one is able to produce such a deconfined matter, which is called the Quark-Gluon Plasma (QGP). The QGP is possibly the primordial fluid that permeated our Universe when it was only a few microsecond old.

A half-day "Fest Colloquium" is scheduled during the afternoon of July 5.

## TOPICS

*The QGP Meet 2012 workshop will focus on the recent experimental results from RHIC & LHC along with the theoretical developments in the field of Quark Gluon Plasma (QGP) and its connection with the early Universe. Future prospects at FAIR and other facilities will also be discussed.*

- ✓ QCD phase diagram, EOS, Critical Point
- ✓ Electromagnetic Probes
- ✓ Initial state, Thermalisation and Hadronisation
- ✓ Ideal and Viscous Hydrodynamics
- ✓ Jets, Heavy Flavor, Strangeness productions
- ✓ AdS-CFT, Correlations & Fluctuations.
- ✓ Matter at High Baryon density

### ADVISORY COMMITTEE

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<http://www.vecc.gov.in/QGPMeet2012>