

ASSOCIATION FOR THE CULTIVATION OF SCIENCE
2A&B, Raja S.C. Mullick Road, Jadavpur, Kolkata-700032, India

Seminar Notice

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Theoretical Physics Department

Title:	From the universe to relativistic heavy-ion collisions: CMBR fluctuations and flow anisotropies
Speaker:	Ajit Srivastava, Institute of Physics, Bhubaneswar
Date:	November 22, 2016 (Tuesday)
Time:	03:00 p.m.
Venue:	Theoretical Physics Seminar Room (R/No.-C406), 3rd Floor, Centenary Building, IACS
Abstract:	We discuss a deep interconnection between the physics of initial state spatial anisotropies in relativistic heavy-ion collision experiments (RHICE) and the anisotropies observed in cosmic microwave background radiation (CMBR). This is due to the presence of superhorizon fluctuations in both cases which, for CMBR case, have origin in the inflationary phase of the universe. Using this we show how CMBR analysis tools can be used for RHICE to investigate the physics of the system during early transient stages of QGP phase. We discuss the possibility of observing features like CMBR acoustic peaks in RHICE.

All are cordially invited to attend the seminar