



K S Krishnan Discussion Meet

Frontiers in Quantum Science

FQS2008

Quantum Matter & Quantum Information

1,2 December 2008

There is an enormous ongoing effort at international level to use quantum mechanical properties of electrons, photons, atoms, molecules, quantum dots and their internal degrees of freedom such as charge, spin & polarization to use for quantum computing, and information processing and cryptography. A rather unique "entanglement" property of quantum states is a major resource behind these exciting possibilities. We will address some issues in this exciting field, by bringing together experts from both fields. This year's meet is preceded by a 2 weeks workshop on 'Quantum Entanglement in Condensed Matter' at Matscience

Tentative List of Invited Speakers

Sougato Bose (London), Jagtap, Ravi Puri (BARC), G Kar (ISI, Kolkata), C M Chandrashekar (Waterloo, Canada), Chiranjiv Mitra (IISER, Kolkata), Bruce Normand (Zurich), Krishnendu Sengupta (IACS), Hema Ramachandran (RRI) Deepak Kumar (JNU), Sudhakar Yarlagadda (SINP), Krishnendu Sengupta (IACS) Sumathi Rao (HRI), Arindam Ghosh, Diptiman Sen, Sourin Das (IISc), Arul Lakshminarayanan, Rajesh Narayanan (IIT Madras), R Simon, Sibasish Ghosh, G Baskaran, R Shankar (Matscience)

1-2 December, 2008

Ramanujam Auditorium

The Institute of Mathematical Sciences, Chennai 600 113

Organisers

G. Baskaran, Sibasish Ghosh, A K Mishra, R. Shankar and R. Simon

<http://www.imsc.res.in/> [email: qit@imsc.res.in](mailto:qit@imsc.res.in)

This meet is preceded by a 2 weeks workshop on
Quantum Entanglement in Condensed Matter
at the Institute of Mathematical Sciences, during 17-29 Nov 2008 <http://www.imsc.res.in/>

A sequel to this Discussion meet will be the
K S Krishnan Popular Science Lecture (2008)
at The Madras Christian College, Chennai
(date & speaker will be announced) <http://www.imsc.res.in/>