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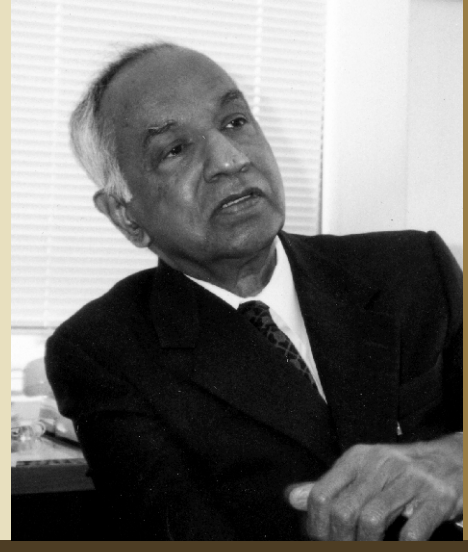
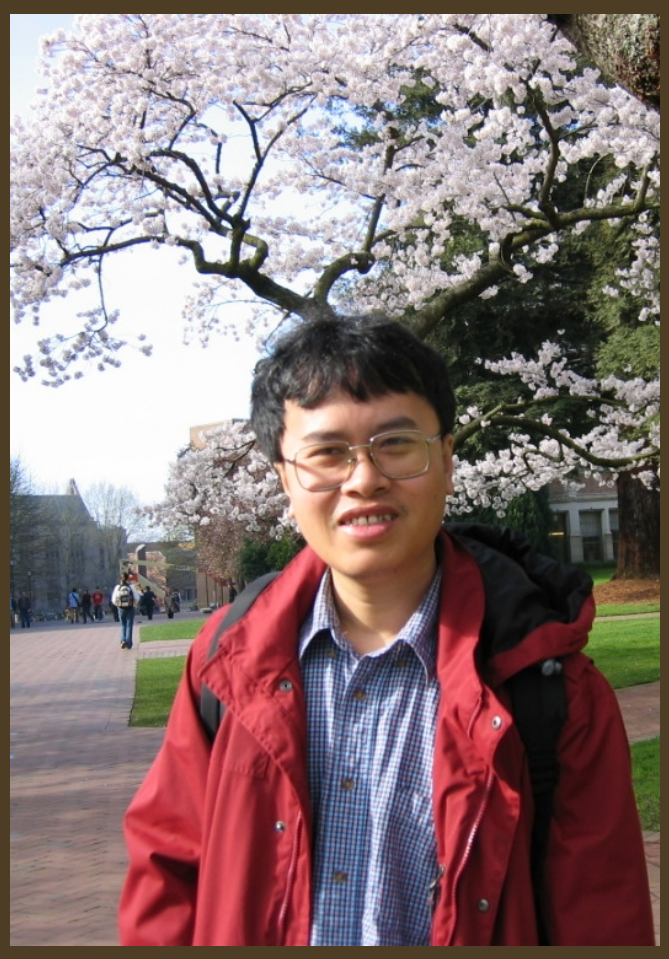


SUBRAHMANYAN CHANDRASEKHAR LECTURES

TATA INSTITUTE OF FUNDAMENTAL RESEARCH



DAM THANH SON is a Professor at the University of Washington at Seattle, USA. He has made path-breaking contributions to the applications of string theory methods to the physics of strongly interacting systems. His other research interests include the physics of cold trapped atoms, color-superconducting quark matter and graphene. He is a fellow of the American Physical Society.

Subrahmanyan Chandrasekhar lectures are delivered by eminent academicians on important new developments in their areas of specialty. The first lecture in any series is aimed at a general scientific audience, while the remaining are aimed at specialists.

PROFESSOR DAM THANH SON

University of Washington, Seattle, USA

Applied String Theory

Gauge/gravity duality, discovered in string theory in 1997, has became a powerful theoretical tool in the study of quantum field theories at strong coupling. I will review recent attempts to use gauge/gravity duality to understand the physics of strongly interacting media, focusing on the quark gluon plasma and the cold atomic gases. In particular, I will describe how the method has helped the discovery of new effects in relativistic hydrodynamics that arise from triangle anomalies.

21 March 2011 at 4 pm at AG 66, TIFR
22 March 2011 at 4 pm at AG 66, TIFR
23 March 2011 at 11:30 am at AG 66, TIFR

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