



Special Colloquium

FASTER THAN LIGHT PARTICLES

Prof. E.C. George Sudarshan

Department of Physics, University of Texas, USA

Prof. George Sudarshan started his research career at TIFR and went to Rochester to work for his Ph. D thesis with Robert Marshak in mid 1950s. There, he discovered the V-A theory of weak interactions which was the fundamental theory of weak interactions, and formed the basis for the electro-weak unified formulation. He is one of those few physicists who had the talent and opportunity to discover a fundamental law of nature. Soon after, Prof. Sudarshan proved the optical equivalence theorem and invented the diagonal coherent state representation for the general quantum state of light.

Prof. Sudarshan, along with O. M. P. Bilaniuk, showed that the concept of faster-than-light particles – Tachyons – was consistent with the theory of relativity when properly interpreted, much to the surprise of physicists, prompting a lively debate. Apart from very fundamental and far reaching discoveries, Prof. Sudarshan has contributed, and continues to contribute significantly to optics, quantum mechanics, particle physics, mathematical physics and quantum information theory. He has inspired generations of students and collaborators, and continues to inspire through his lectures, books and interactive discussions. He is a recipient of the prestigious award Padma Bhushan in 1976 and Padma Vibhushan in 2007.

Tuesday, 8th November 2011 at 1545 hrs
PFAG 14, Prefabs, Near Annabhau Sathe Bhavan
University of Mumbai, Vidyanagari Campus, Kalina