



# Institute Colloquium



**S. N. Bose National Centre for Basic Sciences**  
(An Autonomous Research Institute established under DST, GOI)



**30 November 2022**



**04:00 PM**  
at FERMION, SNBNCBS



**Webinar Link**

**YouTube YouTube Link**

## **Title: Unification of Gravity and Electrodynamics**

### **Abstract:**

I will outline the fundamentals of a single relativistic complex scalar wave theory that underlies both the unification of linearized Einstein gravity and electrodynamics and their Schrodinger-like wave mechanics, and provide direct justification of the Bose-Marletto-Vedral proposal for detecting the quantum nature of gravity.

### **Speaker:**

**Professor Partha Ghose**  
NASI - Senior Scientist

### **Short biography of the Speaker**

Prof. Partha Ghose, (born 1939), FNASc, is an Indian physicist, author, philosopher, musician and former Professor at the S.N. Bose National Centre for Basic Sciences in Kolkata. He is the former Chairman of Satyajit Ray Film and Television Institute, Kolkata, and a member of the Board of Trustees of the Academy of Fine Arts, Kolkata, and The Telegraph Education Foundation.

Partha Ghose is one of India's best known popularizers of modern science. He has written influential papers and books on physics as well as popular books on science. He was an anchorperson in the popular Indian TV shows Quest and Eureka. He has directed plays and appeared in media programmes and films including the National Award-winning film 'The Quantum Indians', which is about great Indian scientists Satyendranath Bose, C. V. Raman and Meghnad Saha. Partha Ghose received the National Award for the Best Science and Technology coverage in the Mass Media of the National Council for Science and Technology Communication (NCSTC) for the period 1986 -1990.

He was also awarded the Indira Gandhi Prize for the popularization of science by the Indian National Science Academy. He is best known in the physics world for his significant contributions to theoretical physics, particularly the foundations of quantum mechanics. He served as the Hony. Secretary of the Visva-Bharati Music Board for a few years. He received training in Rabindra Sangeet under veterans like Debabrata Biswas and Santidev Ghosh (a direct disciple of Tagore). He also served as a member of the Working Group on National Language Policy, Knowledge Commission, Govt of India.

