



PUSHING THE FRONTIERS OF SCIENCE

Project: Laser Interferometer Gravitational-Wave Observatory (LIGO)

Prof. Sukanta Bose, IUCAA, Pune

India's role in the newly launched era of multi-messenger astronomy with gravitational waves



Abstract:

- The planned mega-science project LIGO-India will boost our understanding of the densest objects in the universe, such as black holes, as well as test Einstein's predictions about the nature of gravity. Building the observatory on Indian soil and using it to probe cosmic phenomena will involve Indian scientists, engineers and technicians from various fields. This talk will discuss how LIGO-India will contribute significantly to these exciting scientific discoveries.

About the Speaker:

- Professor Sukanta Bose is the Project Coordinator of LIGO-India at IUCAA, and the chair of the LIGO-India Scientific Collaboration (LISC). He is an elected member of the International Society of General Relativity & Gravitation's Committee. Since 2013, Prof. Bose has worked on training several LISC (formerly IndIGO) scientists in gravitational wave research, particularly, using LIGO data, and on guiding their contributions in LSC science. His primary research interest is in addressing some of the outstanding problems in relativistic astrophysics and cosmology by exploiting information from the newly launched field of gravitational-wave astronomy and combining it with electromagnetic and particle signals.

