



# Einstein lectures

PUBLIC LECTURE SERIES CELEBRATING THE CENTENARY OF  
ALBERT EINSTEIN'S GENERAL THEORY OF RELATIVITY

## LIGO-India: Beyond Gravitational Wave Detection to Gravitational Wave Astronomy

Predicted by Einstein almost a century ago, Gravitational waves (GW) have eluded direct detection till now. The first detection of gravitational waves by detectors like Advanced LIGO and Virgo seems imminent. When detections become routine, inaugurating GW astronomy requires extension of the current network by LIGO-India (part of the Indian Initiative in Gravitational-Wave Observation) to provide good sky localization for the GW sources. LIGO-India will play a key role in locating and deciphering GW sources with implications for astrophysics, cosmology and eventually fundamental physics.

Public Lecture by  
**Prof. Bala Iyer**

International Centre for Theoretical  
Sciences - TIFR, Bengaluru

2<sup>nd</sup> Feb 2016 (Tuesday) at (11.00 am &) 2.00 pm  
School of Pure & Applied Physics, MG University



**Prof. Bala Iyer** is the Chairperson of the Indian Initiative in Gravitational-Wave Observation (IndIGO) consortium. IndIGO consortium is the proposer of LIGO-India and he is one of its principal leads. Prof. Bala is one of the pioneers in the modeling of high accuracy gravitational waveforms from the in-spiral of Neutron stars and Black holes. Before joining as Visiting Professor at ICTS, Bengaluru, he held various academic positions at Raman Research Institute, Bengaluru. He is a fellow of the American Physical Society and the International Society of General Relativity and Gravitation