



JAWAHARLAL NEHRU PLANETARIUM



Bangalore Association for Science Education

**A Special Lecture by
Prof. B. R. Iyer**

International Centre for Theoretical Sciences
Tata Institute of Fundamental Research, Bengaluru

LIGO – India:

Beyond Gravitational Wave Detection to Gravitational Wave Astronomy

Date:
October 11, 2015 (Sunday)
at 5:30 pm

Venue:
Jawaharlal Nehru Planetarium
Sri T Chowdaiah Road, High Grounds
Bengaluru – 560 001

Abstract:

Predicted by Einstein almost a century before, Gravitational waves (GW) have eluded direct detection till now. The talk will provide an introduction to GW and the heroic attempts to detect it. The first detection of gravitational waves by detectors like Advanced LIGO and Virgo seems imminent in the coming years and will open up a new observational window to the Universe. When detections become routine, inaugurating GW astronomy requires extension of the existing network to a global network 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.

*** ALL ARE WELCOME ***