

ICTS COLLOQUIUM

- Title : Gravitational Astronomy: The Big Picture
- Speaker : B. S. Sathyaprakash, Cardiff University, Cardiff, UK
- Date : Tuesday, June 25, 2013
- Time : 4:00 p.m.
- Venue : ICTS Lecture Hall, IISc Campus, Bangalore
- Abstract : Gravitational-wave sources potentially span a wide frequency range, with periods from the age of the Universe to a few milliseconds. From quantum processes in the early Universe and supermassive black holes to binary neutron stars and supernovae, there is a great variety of sources. Gravitational radiation from them carry very rich information about epochs and physical processes that are hard to probe in any other way. The coming years will witness the birth of Gravitational Astronomy with many instruments probing different spectral regions of this new observational window. In this talk I will discuss what we expect to observe and how that will impact our knowledge of fundamental physics, cosmology and astrophysics.

(This colloquium is part of the ICTS Program on Numerical Relativity and the ICTS-IISc Joint Program)