

ICTS Postdoc/Graduate Student Seminar Series

- Title : Modelling coalescing black-hole binaries
- Speaker : Chandra Kant Mishra, ICTS-TIFR, Bangalore
- Date : Friday, August 19, 2016
- Time : 11:15 am
- Venue : Emmy Noether Seminar Room, ICTS Campus, Bangalore
- Abstract : The effects produced in a detector by a passing gravitational wave (GW) are completely obscured by the detector noise, even from the strongest GW sources, by the virtue of extremely weak coupling. However, if the form of the signal is known accurately, then one can use a standard data-analysis technique known as matched filtering to dig such weak signals from the noisy data. Binary systems composed of black holes are the strongest known sources of GWs and are among the cleanest systems that can be modelled within the framework of General Relativity. In this talk, I shall present an overview of methods for modelling various evolutionary phases of such systems and also discuss our ongoing efforts in generalising the current state-of-art models.

Note: This will be an ongoing biweekly seminar series (Fridays, 11:15 am) by the ICTS postdocs and graduate students