



ICTS COLLOQUIUM

Title : Analytic approximation methods for gravitational-wave astronomy

Speaker : Marc Favata, Montclair State University, USA

Date : Tuesday, July 2, 2013

Time : 4:00 p.m.

Venue : ICTS Lecture Hall, IISc Campus, Bangalore

Abstract : By the end of the decade an international network of laser interferometers is expected to make the first direct detections of gravitational waves from coalescing compact binaries. This will require overcoming a variety of experimental and theoretical challenges. On the theoretical side a very accurate model of the orbit and wave emission is required to accurately extract the source parameters. I will discuss the analytic methods used to model gravitational waves, their connection with numerical relativity, and where further progress is needed.

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