



SPEAKER: Thibault Damour (Institut des Hautes Etudes Scientifiques)

TITLE: **Gravitational Waves from Coalescing Binary Black Holes: Theoretical and Experimental Challenges**

DATE: Thu 29/04/2010 16:30

PLACE: Main Auditorium

ABSTRACT

A network of ground-based interferometric gravitational wave detectors (LIGO/VIRGO/GEO/...) is currently taking data near its planned sensitivity. Coalescing black hole binaries are among the most promising, and most exciting, gravitational wave sources for these detectors. The talk will review the theoretical and experimental challenges that must be met in order to successfully detect gravitational waves from coalescing black hole binaries, and to be able to reliably measure the physical parameters of the source (masses, spins, ...).