

São Paulo International Schools on Theoretical Physics

Advanced School in General Relativity:
Relativistic Astrophysics and Cosmology

16 - 27 July, 2012

Instituto de Física Teórica - UNESP - São Paulo, Brazil

Modern technology is improving our observations of neutron stars, pulsars, black holes, and other compact objects, which only can be understood in the context of general relativity. Moreover, the direct observation of gravitational waves, expected in the next years, should dramatically increase our comprehension of various astrophysical phenomena. At the same time, only a deep understanding of general relativity will enable physicists to grasp the very meaning of precise measurements of some cosmological observations. The aim of the school is to discuss some of the most important modern topics of astrophysics and cosmology in the context of general relativity. **Students are expected to have had some previous contact with general relativity. There is no registration fee.**

Lecturers:

R. Abramo - Universidade de São Paulo (Brazil)
Modern Cosmology I

R. Caldwell - Dartmouth College (USA)
Modern Cosmology II

J. Creighton - University of Wisconsin at Milwaukee (USA)
Relativistic Astrophysics I

J. Friedman - University of Wisconsin at Milwaukee (USA)
Relativistic Astrophysics II

Organizers:

G. Matsas (IFT-UNESP, São Paulo), **D. Vanzella** (IFSC-USP, São Carlos)

The online application form and more information can be found at:

www.ictp-saifr.org/schoolgr

The application deadline is **1 May 2012**.

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