



THURSDAY COLLOQUIUM

Department of Physics, Tsinghua University
<http://www.phys.tsinghua.edu.cn/Colloquium/>

Title Gamma Ray Bursts and the Physics and
Astrophysics of Black Holes

Speaker Prof. Remo Ruffini
University of Rome and International Center for
Relativistic Astrophysics in Pescara

Venue ZhengYu-Tong Lecture Hall
&Date 16:00, June 9, 2011

Abstract:

The observations of Gamma Ray Bursts offer the opportunity of exploring and reach the understanding of the process of formation of Black Holes, occurring almost daily in our entire Universe. Six satellites, operative in X, gamma rays and optical wavelengths, as well as ground based optical and radio telescopes bring data with unprecedented time and spectral resolution. It is now in action the confrontation of these observations with precise theoretical predictions of yet unexplored ultra-relativistic quantum and classical field theoretical regimes within the Einstein theory of general relativity. The case for the identification of the first proto-Black Hole will be presented.

Introduction to the Speaker



picture by Giliola Chisté

- Doctorate in Physics, University of Rome, 1966.
- Postdoctoral fellow Mainz Academy of Sciences. Hamburg, Fed. Republic, Germany, 1967.
- Postdoctoral fellow Palmer Physics Lab. Princeton University, N.J., 1967-68.
- Member Institute for Advanced Study, Princeton, N.J., 1968-70.
- Assistant Professor, Princeton University, 1971-74.
- Member Institute for Advanced Study, Princeton, N.J. 1974-76.
- Visiting professor Kyoto University (Japan), 1975.
- Visiting professor University of Western Australia, Nedlands (Australia), 1975.
- Professor University of Catania, Italy, 1976-78.
- Professor, Chair of Theoretical Physics, University of Rome "la Sapienza", 1978-
- Member Council of Center. International Physics, Bogotà, Colombia, 1984-
- President International Center Relativistic Astrophysics (ICRA), 1985-
- Member of Task Force Scientific Use of Space Station NASA, Washington, 1986-88.
- Chairman International Organizing Committee of Marcel Grossmann Meetings, 1984-
- Member International Forum on the Scientific Use of Space Station, Washington, 1986-90.
- Member of Consiglio Ricerche Astronomiche, Rome, 1987-91.
- Co-Chairman Italian-Korean Meetings on Relativistic Astrophysics, Rome and Seoul, 1987-
- Chairman William Fairbanks Meetings, 1990-
- President of the Scientific Committee of the Italian Space Agency, Rome, 1989-93.
- Member of the Board of ENEA, 2004-
- Co-Director Advanced Series in Astrophysics and Cosmology-World Scientific, Singapore, 1986
- Editor Internat. Jour. Modern Phys. D World Scientific Singapore, 1992-
- Editor of the series "The Marcel Grossmann meetings on relativistic Field Theories", 1985-
- Co- Editor of the Series" Italo-Korean meetings on Relativistic Astrophysics".