the International Relativistic Astrophysics Ph.D. 

INVITATION FOR APPLICANTS 2009

Following the success of previous scientifically ambitious space missions by the European Space Agency (ESA) and the European Southern Observatory (ESO) in Chile, as well as the high energy particle activities at CERN in Geneva, we have created a Ph.D. program dedicated to the formation of scientists in the field of relativistic astrophysics. The students of such a program will lead the theoretical developments of one of the most active fields of research, based on the above observational and experimental facilities. This program needs expertise in the most advanced topics of mathematical and theoretical physics, and in relativistic field theories. It requires the ability to model the observational data received from the above facilities, as well as the basic knowledge in astronomy, astrophysics and cosmology. This activity is necessarily international, no single university can cover the broad expertise. From this, the proposed program of the IRAP Ph.D., in one of the youngest and most dynamic French universities, pole of research and teaching and the Excellence Laboratory in relativistic astrophysics, has been created. This laboratory is involved in relativistic and non-photonic astrophysics as well as in the presence of relativistic effects in the X-ray astrophysics and observational cosmology. Through ICRANet the extra-European connections with Brazil, China and India will be guaranteed: in China, with the Shanghai Astronomical Observatory, with the Chinese Academy of Sciences, studying the formation and evolution of large-scale structures and galaxies; in India, with the Indian Centre for Space Physics (ICSP), renowned for its research on compact objects as well as on solar physics and astrophysics; in Brazil, with ICRA – REI, where a successful program of research and teaching in relativistic astrophysics has been established in recent years.

The courses – Each student will have to follow 180 hours of courses during the three years of the Ph.D. program. There is also the possibility to follow courses from other Physics, Mathematics, Astronomy and Astrophysics Ph.D. programs in each participating institution, after approval by the faculty. Courses can be chosen from the following list:

- General Relativity
- Development on BKL work
- The approach to the singularity
- Non-singular cosmology
- The singularity and general relativity
- X-rays clusters
- relativistic effects in GRBs
- particle physics applied to astrophysics
- cosmology
- general relativity
- large scale structure of the universe – each student will have to follow 180 hours of courses during the three years of the Ph.D. program. There is also the possibility to follow courses from other Physics, Mathematics, Astronomy and Astrophysics Ph.D. programs in each participating institution, after approval by the faculty.

The Faculty

See http://www.icranet.org

The application deadline is

The Host Institution for the call of 2009-2010

The University of Nice Sophia Antipolis, Château 28 Avenue Valrose - B.P. 2133

06103 NICE Cedex 2

Applications and Fellowship: In 2009-2010 two positions will be available, six with fellowship support. The application deadline is

and http://www.icranet.org

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