GGI and INFN

Galileo Galilei Institute for Theoretical physics

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GGI is coordinated by CSN4 (INFN theory Committee)
Agreement between INFN and Florence University (October 2004)
Location: old Physics building in Arcetri

The GGI Launching Committee has been appointed by Roberto Petronzio (INFN President) on November 2004 with the following membership: David Gross, Giuseppe Marchesini, Alfred Mueller, Giorgio Parisi and Gabriele Veneziano (chair). The repost was prepared by December 2004 (see www.fi.infn.it/GGI)

Two workshops per year;
each WS lasts 2-3 months with about 20 guests at each time;
guests are invited to stay about one month (with reasonable per-diem)

Area of interest: Theoretical particle physics (in a broad sense)
-theory of quantum fields and strings,
-phenomenology of the standard model and beyond,
-astro/cosmo-particle physics,
-statistical field theory and complex systems.

Area broader than all other European similar Institutes but narrower than KITP

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Advisory Committee: Riccardo Barbieri, Marcello Ciafaloni, Paolo Di Vecchia, Alfred Mueller, Giorgio Parisi, Gabriele Veneziano (chair)

Scientific Committee: Roberto Casalbuoni, Gia Dvali, Michelangelo Mangano, Giuseppe Marchesini (chair), Guido Martinelli, Eliezer Rabinovici, Riccardo Rattazzi, Antonio Riotto, Augusto Sagnotti

Local Committee: Andrea Cappelli, Stefano Catani, Stefania De Curtis, Daniele Dominici, Domenico Seminara, Marco Tarlini

Coordinator: Giuseppe Marchesini, CSN4 President

Deputy Coordinator: Roberto Casalbuoni, Physics Department, Florence

Workshop Organizers: During the WS 3-4 Organizes are present all the time

Visits of Graduate Students are encouraged

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February 2005: Call for Workshop proposal

April 2005: proposals submitted

1. Advancing Collider Physics: from Twistors to Monte Carlos
2. String and M theory approaches to particle physics and cosmology
3. New Directions Beyond the Standard Model in FT and String Theory
4. Astroparticle and Cosmology
5. Flavour Physics in the LHC era
6. High Density QCD
7. Low-dimensional quantum field theories and applications
8. Complex Systems

April 2005: selections of 2006 Workshops

Spring 2006: New Directions Beyond Standard Model in Field and String Theory
Autumn 2006: Astroparticle and Cosmology

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First Workshop May 2, 2006 - Jun 30, 2006

New Directions Beyond the Standard Model in Field and String Theory

Organizers: C. Angelantonj, E. Dudas, T. Gherghetta, A. Pomarol

The main topics of the workshop include:

- Electroweak symmetry breaking.
- Supersymmetric models and supersymmetry breaking.
- String vacua and model building.
- Warped compactifications and holography.
- Modifications of gravity and cosmological implications.

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Second Workshop Aug 28, 2006 - Nov 10, 2006: Astroparticle and Cosmology

Organizers: C. Baccigalupi, K. Enqvist, E. Kolb, J. Lesgourgues

The main topics of the workshop include:

- Models for the Early Universe
- Dark Matter and Dark Energy
- CMB, Large Scale, Cosmological Parameters