



Istituto Nazionale di Fisica Nucleare

Alberto Lerda, Firenze, 15 Febbraio 2018



The Galileo Galilei Institute for Theoretical Physics
Arcetri, Florence

Inaugural Conference

September 19 - 21, 2005

Inaugural Conference (September 2005)



List of Speakers:

Guido Altarelli, Nina Arkani-Hamed, Jean-Paul Blaizot, Stefano Catani, Mijan Cvetic, Thibault Damour, Savas Dimopoulos, Zoltan Fodor, Fabiola Gianotti, David Gross*, Igor Klebanov, David Kutasov, Vittorio Lubicz, Martin Luscher, Slava Mukhenov, Giorgio Parisi, Alexander Polyakov, Massimo Petrati*, Joseph Polchinski, Alex Pomerol, Lisa Randall, Uros Seljak, Luca Silvestrini, Alessandro Strumia, Raffaele Tripiccone, Matias Zaldarriaga*

* To be confirmed

Advisory Committee:

R. Barbieri, M. Ciafaloni, P. Di Vecchia, A. Mueller,
G. Parisi, G. Veneziano (chair)

Local Organizing Committee:

F. Benedetti, A. Cappelli, R. Casalbuoni, F. Colomo,
S. De Curtis, M. Grazzini, G. Pettini

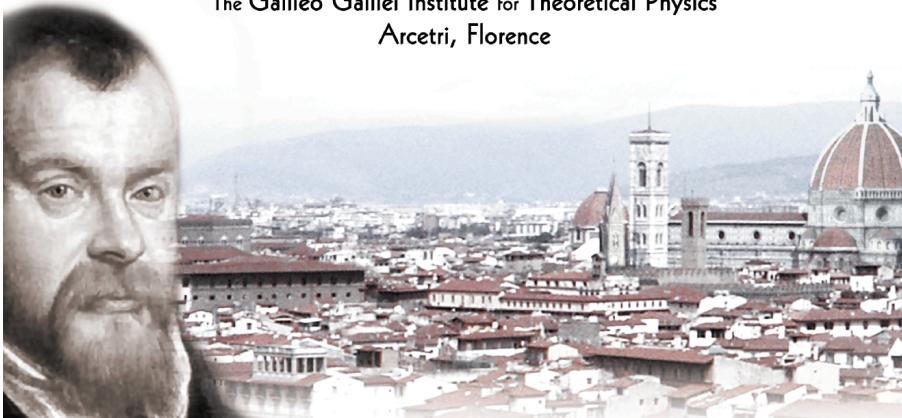
GGI: <http://www.fi.infn.it/GGI/>

Conference website: <http://www.fi.infn.it/GGI/conference/>





The Galileo Galilei Institute for Theoretical Physics
Arcetri, Florence



1° workshop (May-June 2006)

Workshop at the Galileo Galilei Institute in Spring 2006

May 2nd - June 30th

New Directions Beyond the Standard Model in Field and String Theory

The main topics of the workshop include:

1. Electroweak symmetry breaking.
2. Supersymmetric models and supersymmetry breaking.
3. String vacua and model building.
4. Warped compactifications and holography.
5. Modifications of gravity and cosmological implications.

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The beginning of the LHC experimental program in 2007 makes it urgent to undertake a detailed study of possible extensions of the Standard Model that offer an explanation for the origin of the electroweak scale and its connection with other scales in particle physics. In recent years new ideas on the hierarchy problem have been proposed with a great impact in particle phenomenology and cosmology. On the formal side, the gauge-string duality conjecture has led to new computational methods for studying strongly-coupled gauge theories, and D-brane engineering has provided new realisations of gauge symmetry and supersymmetry breaking. Moreover recent compactifications of string theory have also showed the possibility of stabilising all moduli fields, opening the way to a thorough phenomenological analysis. The purpose of the workshop, which includes a short conference, is to bring together leading string and field theory experts to share ideas and stimulate the interaction between these communities in preparation for the exciting LHC experimental results.

Organisers: **Carlo Angelantonj** (University of Torino), **Emilian Dudas** (Ecole Polytechnique, Paris and LPT-Orsay), **Tony Gherghetta** (University of Minnesota), **Alex Pomarol** (Universitat Autònoma de Barcelona).

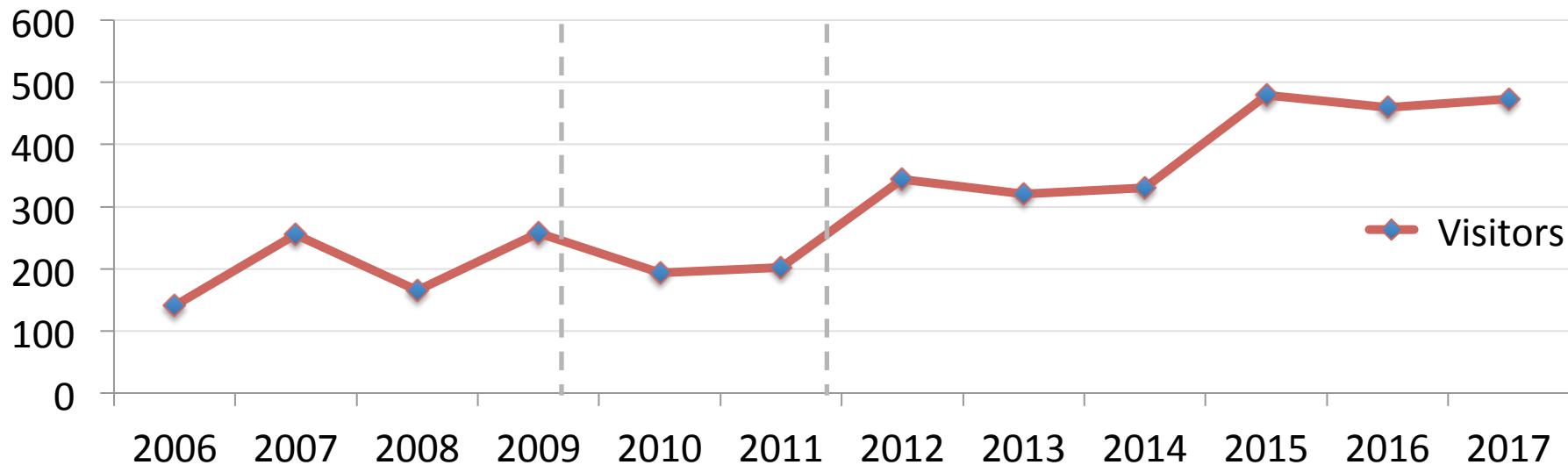
35 extended workshops with almost 4000 participants

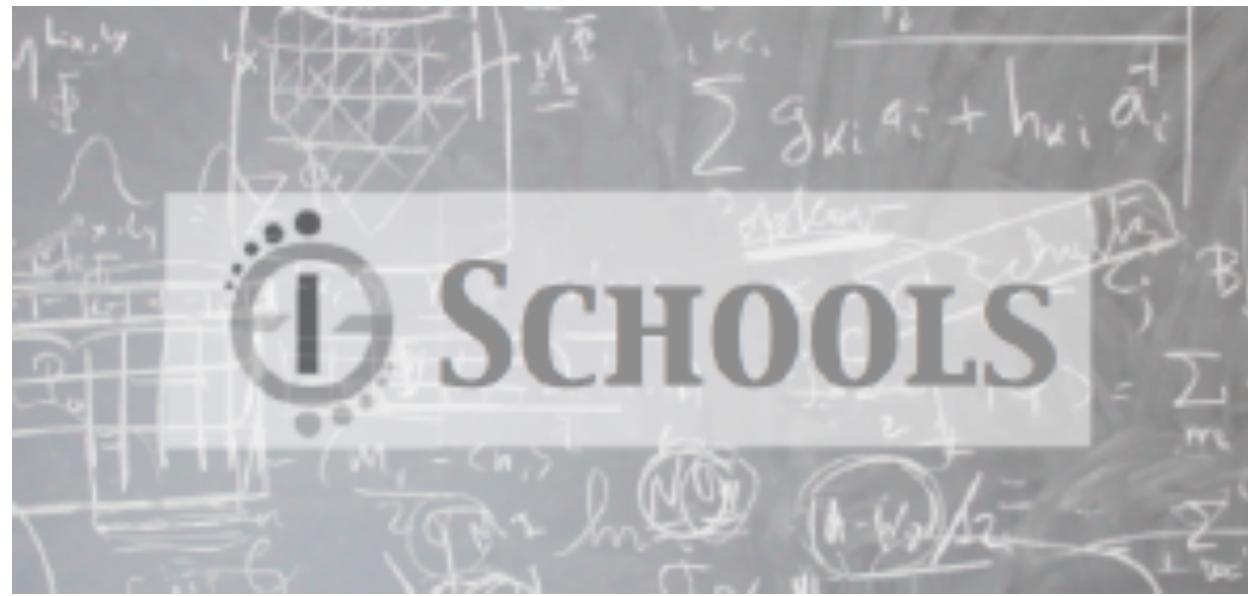


Workshops



- Strings, AdS/CFT, ...
- Particle Phenomenology
- Astroparticle, Cosmology
- Statistical Mech.
- Other

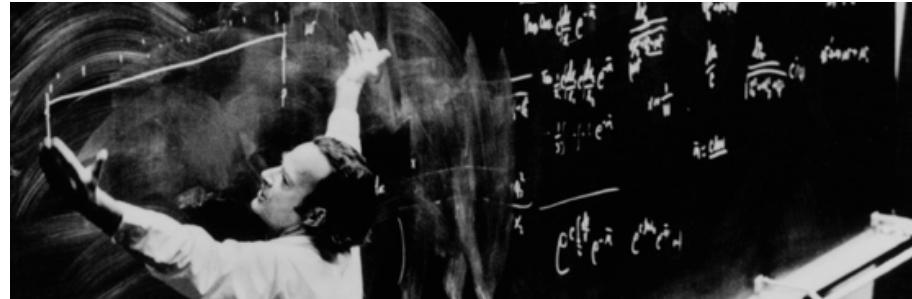






LACES
Lezioni Avanzate di Campi E Stringhe

Galileo Galilei Institute for Theoretical Physics, Arcetri - Italy



GGI LECTURES ON THE THEORY OF FUNDAMENTAL INTERACTIONS

Galileo Galilei Institute for Theoretical Physics
Firenze

WINTER PHD SCHOOL ON *STATISTICAL FIELD THEORIES*

The Galileo Galilei Institute for Theoretical Physics
Arcetri Firenze



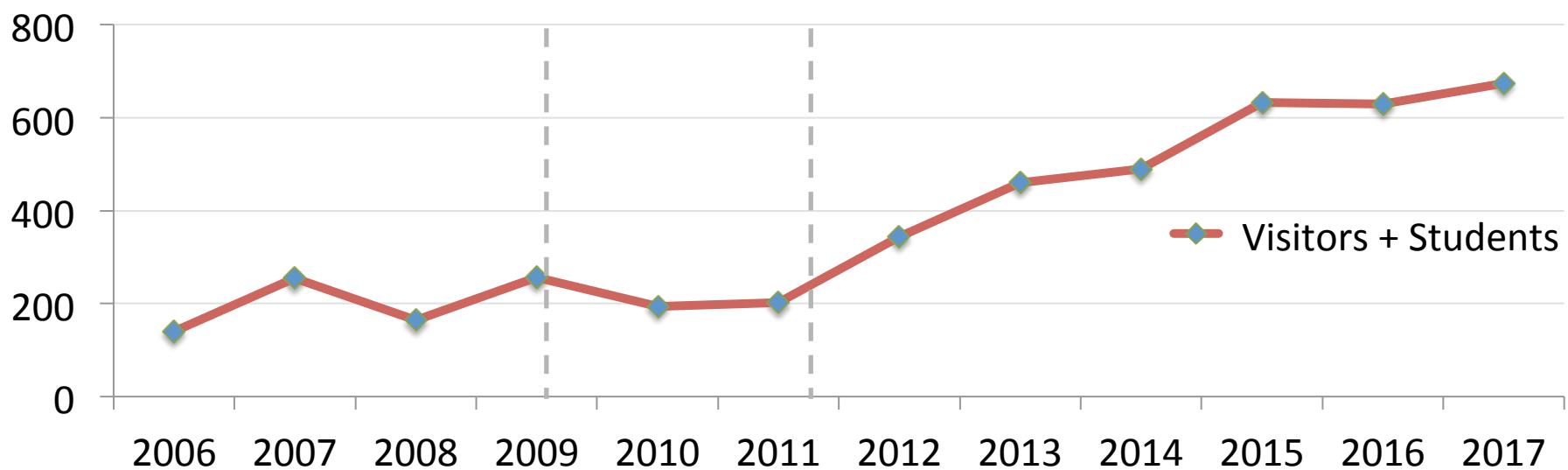
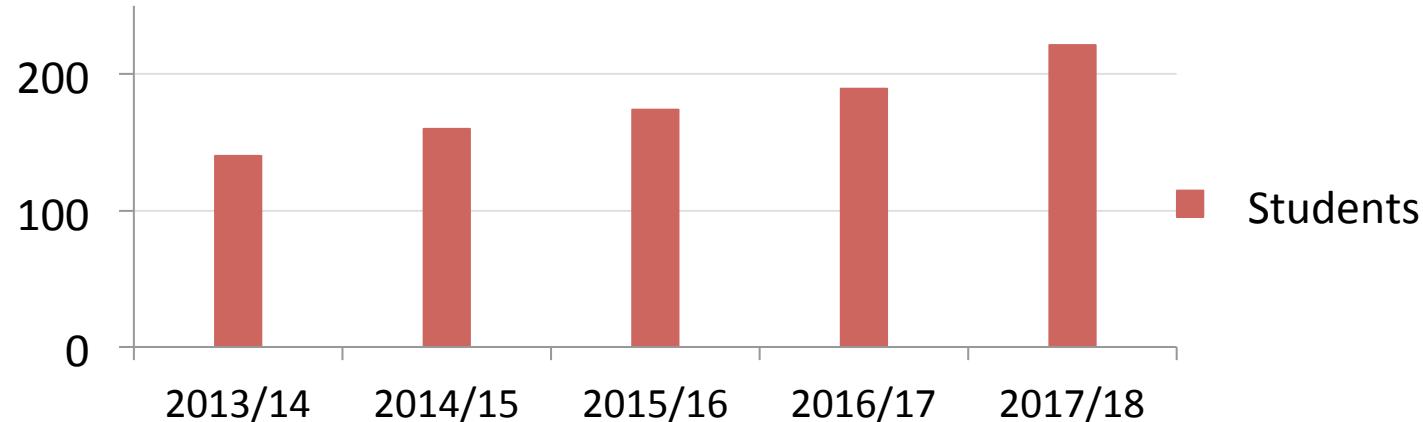
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**Frontiers in Nuclear and
Hadronic Physics**
School



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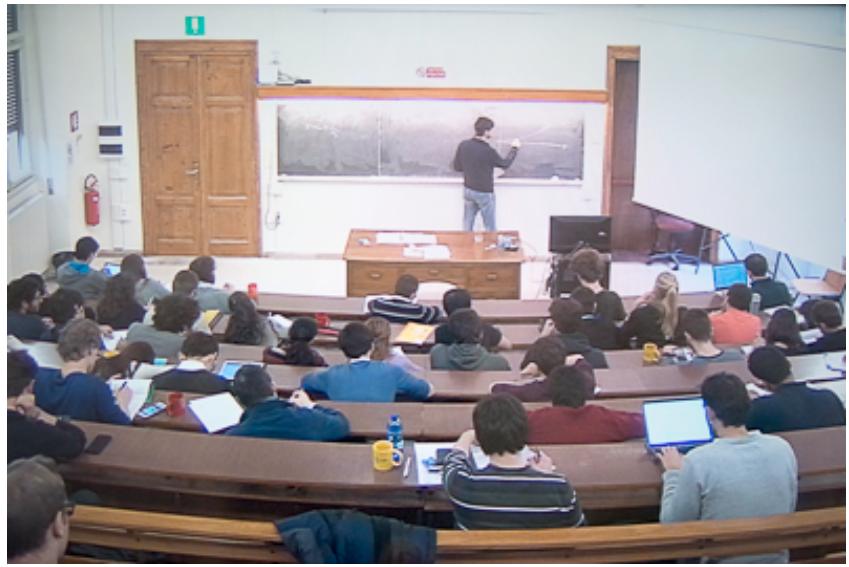


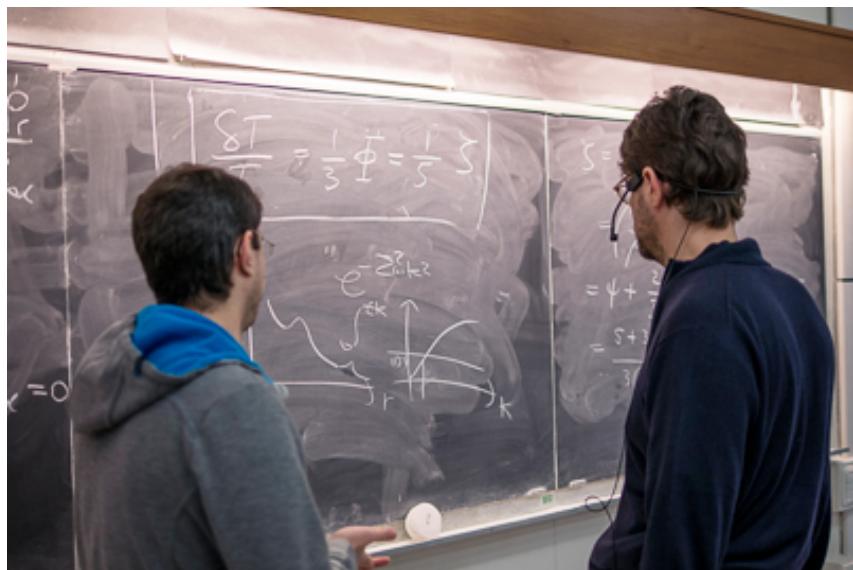


- In 2015 we obtained a significant grant from the **Simons Foundation** to support “eminent scientists attending the GGI workshops” (GGI-Simons fellows)

SIMONS FOUNDATION ▾

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Thanks to:

- The Directors of the INFN Florence section: E. Iacopini, P. Mandò and O. Adriani
- The GGI Secretaries and staff: A. Pagliai, M. Pazzaglia, A. Orlando, A. Annichini, M. Morandini, R. Baglioni and M. Ridi
- The representatives of the Florence section in the CNS4: D. Seminara and S. de Curtis
- Colleagues from Physics Department and INFN section of Florence
- The deputy coordinators of GGI: R. Casalbuoni and D. Dominici
- The Scientific and Advisory committees, and in primis G. Martinelli and G. Veneziano
- The CNS4 and the organizers of the GGI schools
- The Rectors of the University of Florence: A. Marinelli, A. Tesi and L. Dei
- The INFN President F. Ferroni and the whole Executive Board (and in particular F. Zwirner)

Pino Marchesini



Roberto Petronzio





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