The Galileo Galilei Institute for Theoretical Physics
Arcetri, Florence

Large-N Gauge Theories

April 4, 2011 - June 17, 2011

The program focuses on diverse aspects of large-N gauge theories. The topics will range from AdS/CFT duality, large N phenomenology to lattice simulations. By bringing together researchers interested in various approaches to large-N physics we aim to provide a fertile environment where lattice and gauge theory experts can interact with string and AdS/CFT experts. There will be a conference in the middle of the program (May 16, 2011- May 20, 2011).

The main topics of the workshop include:

- AdS/CFT duality.
- Wilson loops and large-N gauge theory amplitudes.
- Matrix models, phase transitions and large-N behavior.
- Gravity/string theory approaches to QCD and flavor physics.
- Finite temperature and plasma physics via duality. Phenomenology of the quark-gluon plasma.
- Large-N phenomenology.
- New large-N expansions. Planar equivalence.
- Lattice simulations of large-N theories.

Organizing Committee:
Adi Armoni (University of Swansea)
Thomas D. Cohen (University of Maryland)
Gianluca Grignani (Università degli Studi di Perugia)
Herbert Neuberger (Rutgers University)
Laurence G. Yaffe (University of Washington, Seattle)
Alberto Zaffaroni (Università degli Studi di Milano Bicocca)

GGI: http://ggi-www.fi.infn.it/

Deadline for the applications - Sept. 30, 2010