

INSTITUT D'ÉTUDES SCIENTIFIQUES DE CARGÈSE

ESF School in High Energy Physics and Astrophysics

June 21 - July 3, 2010

String Theory: formal developments and applications

organized by :

L. Baulieu (Pierre et Marie Curie Univ.), **J. de Boer** (Amsterdam Univ.),
M. Douglas (Stony Brook and IHES), **E. Rabinovici** (Hebrew Univ.),
P. Vanhove (IPhT Saclay and IHES), **P. Windey** (Pierre et Marie Curie Univ.)



Supported by ESF and CERN, within the framework of the ESF Research Conferences Scheme for a series of Summer Schools in High Energy Physics and Astrophysics, and by the Formation Permanente of CNRS.



This school belongs to a set of a ESFSI series of Summer Schools in High Energy Physics and Astrophysics. It is supported by ESF and CERN. It will consist of introductory and advanced lectures as well as seminars by participants on the following topics:

Lectures Topics: *Amplitude computations, Supersymmetric Gauge Theories, Vacuum Structure of String Theory, Black Hole and BPS States Counting, AdS/CFT, LHC Physics.*

Lecturers will include:

M. Aganagic (Berkeley), **N. Arkani-Hamed** (IAS), **Z. Bern** (UCLA), **R. Bousso** (Berkeley),
K. Intriligator (UCSD), **Z. Komargodski** (IAS), **N. Nekrasov** (IHES),
R. Peschanski (IPhT Saclay), **A. Sen** (Harish-Chandra Res. Inst. & LPTHE), **D. Son** (Univ. Washington),
A. Strominger (Harvard), **D. Zagier*** (Bonn & Collège de France)

* to be confirmed

There will be two additional lectures by experimentalists who will review the status of the research at LHC.

Location:

The ESFSI will be held at the Institut d'Études Scientifiques de Cargèse. Cargèse is a pleasant village of considerable charm and historic interest located 50 km north of Ajaccio, on the west coast of Corsica (France). The Institute is located 2 kms south of the village.

Applications:

The school will be open by invitation only to approximately 65 participants, not including lecturers. Applications should be made before **March 15, 2010** through the web form accessible from the web page of the conference. Junior applicants should arrange for a letter of recommendation to be sent by e-mail at cargese@lpthe.jussieu.fr before the above deadline. Participants are expected to cover their own travel. The cost of the school, including half board and registration fees, will be 750 Euros (see the registration web-form for more details and the different options). Some funding will be available upon specific request.

Organization:

Practical information can be found on the web page of the conference <http://string.lpthe.jussieu.fr/cargese>