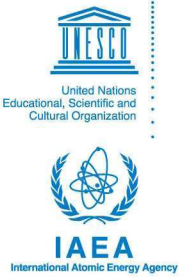




The Abdus Salam
International Centre for Theoretical Physics



**2nd Asian-Pacific School on
Statistical Physics and Interdisciplinary Applications**

3 - 14 March 2008

KITPC, Beijing, P.R. China

The Abdus Salam International Centre for Theoretical Physics (ICTP) and the Kavli Institute for Theoretical Physics China (KITPC) are jointly organizing the 2nd *Asian-Pacific School on Statistical Physics and Interdisciplinary Applications*.

The school is associated to the KITPC programme *Collective Dynamics in Information systems* (<http://agenda.albanova.se/conferenceDisplay.py?confId=238>) and will offer introductory lectures on fundamental topics in statistical physics of disordered systems and application to dynamics in information systems, ranging from computer science to biological systems.

Introduction to statistical physics of disordered systems
The cavity method and survey propagation algorithm
Introduction to constrain satisfiability problems
Information theory
Information in neural systems
Evolutionary game theory

LECTURERS

William BIALEK*, Princeton University, U.S.A.
Michael CHERTKOV, Los Alamos National Lab., U.S.A.
Michael LÄSSIG, Universität zü Köln, Germany
Marc MEZARD, LPTMS Orsay, France
Giorgio PARISI, Università degli Studi di Roma La Sapienza, Italy
Federico RICCI TERSENGHI, Università degli Studi di Roma La Sapienza, Italy
Bart SELMAN, Cornell University, Ithaca, U.S.A.
Arne TRAUULSEN Max-Planck-Institute for Evolutionary Biology, Plön, Germany
Massimo VERGASSOLA, Institut Pasteur, Paris, France
Riccardo ZECCHINA*, Politecnico di Torino, Italy

**to be confirmed*

PARTICIPATION

The participation to the activities is open to graduate students and post-docs from all countries, which are members of the United Nations, UNESCO or IAEA, and aimed preferably at candidates from the Asian-Pacific region. As it will be conducted in English, participants should have an adequate working knowledge of this language.

Although the main purpose of this activity is to help researchers from developing countries, through a programme of training within a framework of international cooperation, a limited number of students and post-doctoral scientists from developed countries are also welcome to attend.

As a rule, travel and subsistence expenses of the participants should be borne by their home institution. Every effort should be made by candidates to secure support for their fare (or at least half-fare). However, limited funds are available for some participants, who are nationals of, and working in, a developing country, and who are not more than 45 years old. Such support is available only for those who attend the entire School. There is no registration fee.

The **Application** should be completed and returned **before 22 December 2007**.

How to apply: The applicants should consult the webpage: <http://www.kitpc.ac.cn/Activities/shd/school.aspx?id=55828762> (which will be constantly up-dated), and submit applications on-line. For any queries please consult the secretariat: Ms. Ci Zhuang, Kavli Institute for Theoretical Physics China, CAS, #55 Zhong-Guan-Cun-Dong-Lu, P.O. Box 2735, 100080 Beijing, China (tel.: +86-10-62582360 - fax: +86-10-62582361 - email: zhuangc@kitpc.ac.cn)
KITPC Home Page: <http://www.kitpc.ac.cn/>

Activity Web page:

http://cdsagenda5.ictp.trieste.it/full_display.php?smr=0&ida=a07190

DIRECTORS

Silvio FRANZ, LPTMS Orsay
Matteo MARSILI, ICTP Trieste
Haijun ZHOU, ITP Beijing

DEADLINE
for requesting participation

22 December 2007