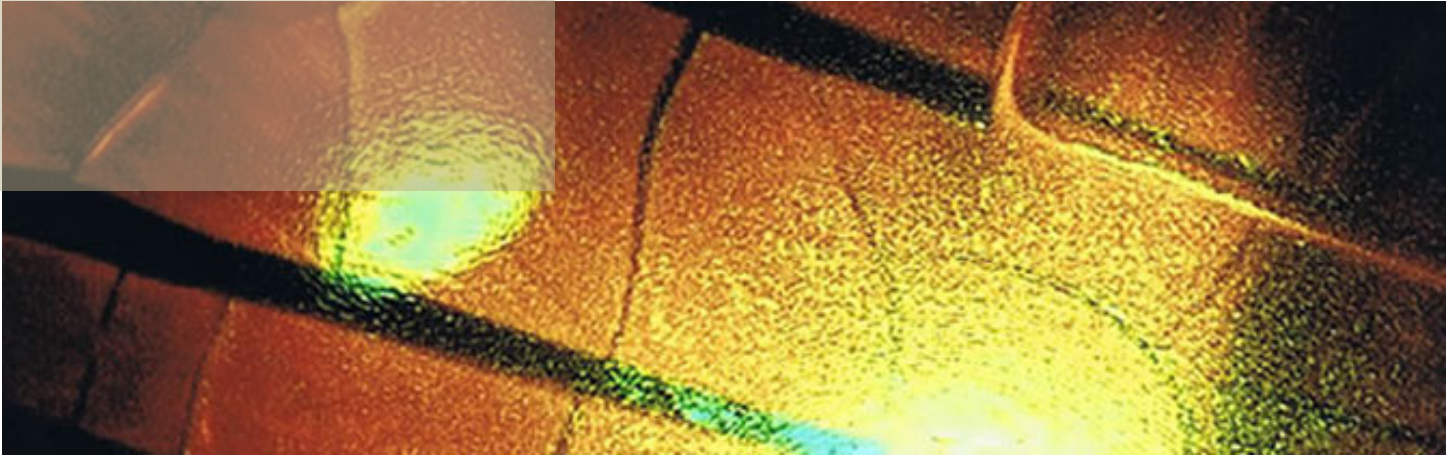


RMT2012

OIST Spring Course on Random Matrix Theory for Complex Systems
OIST Seaside House, April 15 – April 21, 2012



Outline

The first OIST Spring Course on **Random Matrix Theory for Complex Systems** will take place from April 15 to April 21, 2012. The course will hold lectures in the morning and time in the afternoon, discussion, and student projects. The course takes place at the OIST Seaside House, which also accommodates students and tutors.

Participants are invitation only and they are made up of 15 speakers and 30 participants of students and postdocs. 30 students and postdocs are selected from applications from all over the world, and they are fully supported by travel tickets, accommodation, and meals. Application should be accompanied by CV/Resume, a brief sketch of present research and interests (one page) and reference letters. OIST is an equal opportunity institute, so we actively encourage applications from women scientists.

Topics

- (1) Neural network and memory, spin glass, communication networks.
- (2) Genes analysis, co-expression of DNA, protein, bioinformatics.
- (3) Protein folding, topology, secondary structure of RNA and other biological applications.
- (4) Condensed matter application, BEC, quantum dots, quantum chaos, topological insulator, universal class.
- (5) RMT and field theory, conformal field theory, AdS/CFT.
- (6) Mathematical aspect of RMT.

Lecturers

E. Brezin (ENS)
S. Cocco (ENS)
S. Ganguli (UCSF)
J. Miller (OIST)
R. Monasson (ENS)
A. Morozov (ITEP, Moscow)
H. Sompolinsky (The Hebrew Univ.)
M. Vergassola (Institut Pasteur)
P. Wiegmann (U. Chicago)
A. Zee (ITP)
J. Zinn-Justin (CEA)

RMT2012 Co-organizers

Organizer unit: Mathematical and Theoretical Physics Unit of OIST
Organizers: E. Brezin (ENS), H. Sompolinsky (Hebrew), J. Miller (OIST) and S. Hikami (OIST)

RMT2012 Website <http://www.oist.jp/en/events/workshops/rmt2012.html>

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Deadline of Applications

December 15, 2011