MCRN Newsletter

January 14, 2016 - Issue 8

MCRN Colloquium resumes TOMORROW

Friday, January 15th, 2016, 9:30am EST - **Henk Dijkstra**, University of Utrecht, The Netherlands

Transitions in high-dimensional climate models

Abstract: Climate research deals with changes in the statistics rather than in the exact state of the Earth system. Ergodic theory is aimed to relating the dynamics of a system to its statistical properties and thus particularly suitable for developing a theory of climate variability. In this presentation, concepts of ergodic theory will be used to study climate variability and response to forcing. In particular, it is shown that crucial information on the stability of the climate system can be extracted by approximations of the associated transfer operators and their ergodicity spectrum. The methodology is applied to transitions in high-dimensional models of the El Nino/Southern Oscillation, midlatitude atmospheric blocking events and transitions between a snow-free and snow-covered Earth.

Webinar Link (If you have not previously used WebEx, you will be prompted to install it before being able to "Join" the webinar.)

See current Spring 2016 Schedule. A speaker is still needed for Monday, January 25, 2016, 4pm EST. Suggestions welcomed.

Nonsmooth Climate Dynamics Workshop

As part of the *Intensive Research Program: Advances in Nonsmooth*

Dynamics, the [Climate Modeling Workshop](#) will take place March 30 - April 1, 2016, at the Centre de Recerca Matemàtica in Barcelona.

The workshop will include a small number of talks, giving an overview of conceptual climate models and presenting open problems. The main part of the program will consist of group discussion sessions, identifying key themes and tackling them during the workshop, and identifying new collaborations for future work.

[Registration Link](#) (There is a nominal 50 euro registration fee for those who are not residents of the CRM Research Program.)

Contributions: All talks will be invited. If you would like **to contribute an open problem** then please contact anonsmoothd@gmail.com to discuss with the organisers how its fits in with the program.

[Scope of the workshop](#)

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