

MCRN Newsletter

December 2, 2015 - Issue 5

MCRN Colloquium Webinar TOMORROW

Thursday, December 3rd, 7:00pm EST:

New averaging results motivated by climate models: fat tails, oscillations, and tipping

Rachel Kuske (University of British Columbia)

We review recent results where new averaging approaches are developed and applied in the context of systems with multiple time scales and fat tails and in non-autonomous multiple scale systems with oscillatory forcing. These types of systems appear in a variety of higher dimensional climate models, as well as in other areas of application. The results open new research directions, with potential to better address questions like: which mechanisms contribute to fat-tail statistical properties appearing in climate data? What are reasonable approximations for multiple scale systems with non-Gaussian behaviour? How can these approximations provide insight into the dynamics of larger models, such as parameter ranges with large variability, tipping, or reversibility? Some areas for further research are discussed.

Joint work with: Thomas Erneux, Adam Monahan, Will Thompson, and Jieliin Zhu

Webinar Link: <https://renci.webex.com/renci/j.php?MTID=m98d9270d9079dddef2718963de00c03f>.

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PLEASE indicate your availability for participating in the MCRN Colloquium at <http://doodle.com/poll/eyvqus33as3u3as4>.

The first talk will be on Friday, January 15th, 2016, 9:30am EST:
Henk Dijkstra (University of Utrecht, Holland) will be the speaker.

In case you missed it...

The three previous MCRN Colloquium Webinars:

Chris Jones: [Where's the Math in Climate Science?](#)

Luke Bennetts: [Modelling the Marginal Ice Zone](#)

Jonah Bloch-Johnson: [Global Warming Could Be Nonlinear](#)

* Please feel free to email or send a message (via the MCRN Hub) to the speakers with questions.

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