Statistical Properties of Dynamical Systems

LMS-CMI Research School

Loughborough
13-17 April 2015

Organiser(s): Wael Bahsoun

Course outline

The aim of the school is to provide PhD students with knowledge and training on basic tools needed to study statistical properties of dynamical systems. Students are not assumed to have any knowledge in the subject. In the first two days the lectures will aim at general background and tools needed in the area. More advanced topics which are related to current advances in the area will start to appear on the 3rd day of the school.

The three main lecture course topics are:

• *Strong statistical properties of hyperbolic and partially hyperbolic dynamical systems* (**Carlangelo Liverani,** Universita di Roma)

• *Fast-slow skew product systems and convergence to stochastic differential equations* (**Ian Melbourne,** Warwick)

• *Open Systems: Fundamental Questions and Emerging Perspectives* (**Mark Demers,** Fairfield University)

These lecture courses will be supplemented by tutorial sessions.

For further information please visit: http://homepages.lboro.ac.uk/~mawb/LMS-CMI.html

Applications: Applications should be made using the registration form available via the website at: http://homepages.lboro.ac.uk/~mawb/LMS-CMI.html. Research students, post-docs and those working in industry are invited to apply.

The closing date for applications is **30 January 2015.** Numbers will be limited and those interested are advised to make an early application.

All applicants will be contacted within two weeks after the deadline; information about individual applications will not be available before then

Fees

All research students will be charged a registration fee of **£150**. **There will be no charge for subsistence costs**.

All early career researchers will be charged a registration fee of **£250**. **There will be no charge for subsistence costs**.

All other participants (e.g. those working in industry) will be charged a registration fee of £250 plus the full subsistence costs (£150) **£400** in total.

All UK-based participants must pay their own travel costs. For overseas-based participants, support will be available to contribute towards travel costs.

Fees are not payable until a place on the course is offered but will be due by 20 February 2015.

LMS-CMI Research Schools aim to provide training for young researchers in core areas of mathematics. Students and post-docs can meet a number of leading experts in the topic as well as other young researchers working in related areas.