Regularity and Analytic Methods in Combinatorics

LMS-CMI Research School

1-5 July 2015, University of Warwick

Organiser(s): Peter Keevash, Daniel Kráľ and Oleg Pikhurko

Course outline

The school will cover three interlinked discrete mathematics topics with computer science applications, which all saw exciting developments in the last few years: the Regularity Method, Limits of Combinatorial Structures, and Property Testing.

The three main lecture course topics are:

- *Regularity Method* (**David Conlon,** Oxford)
- *Limits of Combinatorial Structures* (**Christian Borgs** and **Henry Cohn**, Microsoft)
- *Property Testing* (**Asaf Shapira,** Tel-Aviv).

These lecture courses will be supplemented by tutorial sessions.

The school will also include three more generally focused talks given by:

Noga Alon (Tel Aviv)

Christian Borgs (Microsoft)

Ben Green (Oxford)

The school is collocated with the 25th British Combinatorial Conference.

For further information please visit:
http://www2.warwick.ac.uk/fac/sci/maths/people/staff/daniel_kral/school15

Applications: Applications should be made using the registration form available via the Society's website at: https://www.surveymonkey.com/s/WXTVKYD Research students, post-docs and those working in industry are invited to apply.

The closing date for applications is **1 April 2015.** Numbers will be limited and those interested are advised to make an early application. All applicants will be contacted within three weeks after the deadline.

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 **£200**. **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 (£340) **£590** in total.

All UK-based participants must pay their own travel costs. For overseas-based participants, some 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 6 May 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.

The LMS is the UK's learned society for mathematics. Registered charity no. 252660 (www.lms.ac.uk)
The CMI is charitable private operating foundation, incorporated in the USA.