Warwick Mathematics InstituteRandom walks on graphs andpotential theory
18-22 May 2015Organisers: Agelos Georgakopoulos, David CroydonPROGRAMME
Monday 18 May Lectures in Room MS. 03
8:30 Registration in Room B1.37
11:00-11:30 Coffee in the Mathematics Institute Common Room
11:30-12:30 Omer Angel (UBC) A dichotomy for unimodular maps
12:30-14:00 Lunch in the Mathematics Institute Common Room
14:00-15:00 Johannes Carmesin (Hamburg/Cambridge) Every planar graph with the Liouville property is amenable
15:00-15:20 Tea in the Mathematics Institute Common Room
15:20-16:20 Perla Sousi (Cambridge)
16:30-17:30 Ronen Eldan (Washington)
17:40-18:10 John Sylvester (Warwick)
18:30 Dinner in the Mathematics Institute Common Room
Tuesday 19 May Lectures in Room MS. 03
10:00-11:00 Stephan Wagner (Stellenbosch) Loop models on a fractal
11:00-11:30 Coffee in the Mathematics Institute Common Room
11:30-12:30 Anita Winter (Duisberg-Essen) Invariance principle for variable speed randomwalks on trees
12:30-14:00 Lunch in the Mathematics Institute Common Room
14:00-14:30 Konrad Kolesko (Wroclaw) Almost sure pointwise fluctuations of criticalMandelbrot cascades
14:30-15:00 Vladislav Vysotskiy (Imperial College London/Arizona State/St. Petersburg Division of Steklov Institute) On hitting times of bounded sets by random walks
15:00-15:20 Tea in the Mathematics Institute Common Room
15:20-16:20 Alex Zhai (Stanford) Exponential concentration of cover times
16:30-17:30 Open Problem Session
18:30 Dinner in the Mathematics Institute Common Room

The London Mathematical Society



Engineering and Physical Sciences Research Council

THE UNIVERSITYOF WARWICK

For further information on events at the Mathematics Institute, see: go.warwick.ac.uk/mathsevents or contact: Mathematics Research Centre, Zeeman Building, University of Warwick, Coventry CV4 7AL, UK
E-mail: mrc@maths.warwick.ac.uk Phone: $+44(0) 2476528317$ Fax: $+44(0) 2476523548$

# Warwick Mathematics Institute Random walks on graphs and potential theory <br> <br> PROGRAMME cont. 

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| Wednesday 20 May Lectures in Room MS. 05 |  |  |
| :---: | :---: | :---: |
| 10:00-11:00 | Márton Balázs (Bristol) | Electric network for non-reversible Markov chains |
| 11:00-11:30 | Coffee in the Mathematics Institute Common Room |  |
| 11:30-12:30 | Ori Gurel-Gurevich (Hebrew University, Jerusalem) | Boundaries of planar graphs |
| 12:30-14:00 | Lunch in the Mathematics Institute Common Room |  |
| 13:30 | Midlands Probability Seminar |  |
| Thursday 21 May Lectures in Room MS. 05 |  |  |
| 10:00-11:00 | Vadim Kaimanovich (Ottawa) | Stopping times and Poisson boundaries |
| 11:00-11:30 | Coffee in the Mathematics Institute Common Room |  |
| 11:30-12:30 | Alessandro Sisto (ETH) | Central limit theorem for a cylindrically hyperbolic groups |
| 12:30-14:00 | Lunch in the Mathematics Institute Common Room |  |
| 14:00-15:00 | Antoine Gournay (Neuchatel) | The reduced $\ell^{p}$-cohomology in degree 1 and harmonic functions |
| 15:00-15:20 | Tea in the Mathematics Institute Common Room |  |
| 15:20-16:20 | Wolfgang Woess (TU Graz) | Quasi-isometries of graphs and groups, random walks, and harmonic functions |
| 16:30-17:30 | Daniel Lenz (Jena) | Uniformly transient graphs |
| 18:30 | Dinner in the Mathematics Institute Common Room |  |
| Friday 22 May Lectures in Room MS. 05 |  |  |
| 10:00-11:00 | Thomas Sauerwald (Cambridge) | Multiple Random Walks: Cover Times, Hitting Times and Applications |
| 11:00-11:30 | Coffee in the Mathematics Institute Common Room |  |
| 11:30-12:30 | Ben Hambly (Oxford) | Asymptotics for spectra and heat kernels for some random fractals |
| 12:30-14:00 | Lunch in the Mathematics Institute Common Room |  |
| 14:00-15:00 | Peter Morters (Bath) | Robustness of spatial preferential attachment networks |

