Programme of the conference "Random Walks and Discrete Potential Theory", 22–28 June 1997

MONDAY, 23 June

Morning session: chair L. Saloff-Coste

9.00-10.20 Opening. Y. Colin de Verdiere (Grenoble): "Eigenvalues of differential operators on graphs"
10.50-11.40 M. Barlow (Vancouver): "Random walks on 'fractal' graphs"
12.00-12.30 P. Grabner (Graz): "Asymptotic analysis of return probabilities on the Sierpinski graph"

Afternoon sesssion: chair P. de la Harpe

15.00-15.50 G. Lawler (Durham): "Multifractal nature of random walk paths"
16.10-16.40 Y. Kifer (Jerusalem): "Walks in random dynamical environments and their random boundaries"
17.10-17.40 K. Stephenson (Knoxville): "Random walks and the deformation space for circle packings"
17.50-18.20 T. Dubejko (Bruxelles): "Discrete harmonic functions and random walks on circle packings"

TUESDAY, 24 June

Morning session: chair D. Moskowitz

9.00- 9.50 H. Furstenberg (Jerusalem): "Stiff group actions and group boundaries"
10.10-10.40 H. Masur (Chicago): "Random walks and superrigidity of the mapping class group"
11.10-12.00 D. I. Cartwright (Sydney): "Harmonic functions on buildings"
12.20-12.50 Y. Guivarch (Rennes): "On an elementary description of the Furstenberg-Satake boundary"

Afternoon session: chair A. Valette

15.00-15.30 R. I. Grigorchuk (Moscow): "Ergodic theorems on noncommutative groups"
15.40-16.10 A. Nevo (Haifa): "Discrete groups and ergodic theory"
16.40-17.10 T. Coulhon (Cergy-Pontoise): "Random walks on graphs with regular volume growth"
17.20-17.50 T. Nagnibeda (Geneve): "Random walks on trees with finitely many cone types"
18.00-18.30 T. Ceccherini-Silberstein (Roma): "Growth series and random walks on some hyperbolic groups"

WEDNESDAY, 25 June

Morning session: chair A. Koranyi

9.00- 9.50 B. Brooks (Haifa): "First eigenvalue estimates on finite graphs"
10.10-10.40 H. Kesten (Ithaca): "Crossings of a curved boundary by a random walk"
11.10-12.00 P. Diaconis (Harvard): "The geometry of non-reversible Markov chains"
12.20-12.50 I. Benjamini (Rehovot): "Expanding graphs contain expanding trees"

THURSDAY, 26 June

Morning session: chair Ph. Bougerol

9.00- 9.50 O. Schramm (Rehovot): "Random walks and harmonic functions on planar graphs"
10.10-10.40 G. Grimmett (Cambridge): "Diffusitivity of random walks in random labyrinths"
11.10-12.00 Y. Peres (Jerusalem): "Unpredictable paths and electrical resistance"
12.20-12.50 O. Haeggstroem (Goeteborg): "Random walks and percolation in $2+\varepsilon$ dimensions"

Afternoon session: chair M. Babillot

15.00-15.50 R. Lyons (Bloomington): "Random spanning forests"
16.10-16.40 Ch. Takacs (Linz): "Speed of random walks on trees"
17.10-17.40 M. Bozejko (Wroclaw): "q-Gaussian processes"
17.50-18.20 A. H. Zemanian (Stony Brook): "Transfinite random walks"

FRIDAY, 27. June

Morning session: chair J. Dodziuk

9.00- 9.50 N. Th. Varopoulos (Paris): "Random walks in conical domains and applications"
10.10-10.40 J. Taylor (Montreal): "The Karpelevich compactification and polyhedral decompositions"
11.10-12.00 A. Ancona (Paris-Orsay): "Some perturbation problems in Potential Theory"
12.20-12.50 W. Hansen (Bielefeld): "A Liouville property for Schrödinger operators"

Afternoon session: chair V. A. Kaimanovich

15.00-15.30 F. DiBiase (Roma): "Twist points of the von Koch snowflake"
15.40-16.10 C. Cattaneo (Milano): "The spectra of continuous and discrete Laplacians on graphs"
16.40-17.10 A. Zuk (Wroclaw): "Kazhdan's property (T) for discrete groups"
17.20-17.50 S. Northshield (Plattsburgh): "Zeta-functions on graphs"
18.00-18.30 G. Willis (Newcastle, Australia): "Using random waks to factor ideals in $L^1(G)$"

List of participants

(The affiliations are those at the time of the meeting, some have changed.)

Georges Alexopoulos (Université de Paris-Sud, France)
Laura Atanasi (Università degli Studi di Roma, Italy)
Alano Ancona (Université de Paris-Sud, France)
Martine Babillot (Université Paris 6, France)
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