

		Heat kernel estimates for a resistance form under non-uniform volume growth
	203	Svetlana Aroutiounian, North Carolina A&T SU Fractal correlation dimension - genomic application
3:50 – 4:05	406	Uta Freiberg, Friedrich-Schiller Universitat Jena Lagrangians on non self-similar fractals
	203	Figen Cilingir, TOBB-Economy and Technology Univ. Basin of M-Set
4:10 – 4:25	406	Jonathan Jordan, University of Sheffield A variation on spectral decimation
4:30 – 4:45	406	Kenneth Hochberg, Bar-Ilan University Longtime behavior of hierarchically structured branching systems

Wednesday, June 1

Morning Session (9:30 – 11:40) in room 406

9:30 – 10:00		Alexander Teplyaev, University of Connecticut Energy forms on Sierpinski gasket type fractals
10:05 – 10:30		Refreshments in the lounge
10:30 – 11:00		Peter Grabiner, Technische Universitat Graz Analytic continuation of Zeta functions of Laplacians on fractals
11:05 – 11:35		Michel Lapidus, University of California, Riverside Complex Dimensions of Self-Similar Structures: from fractal geometry to geometric measure theory, and back.
11:40 – 1:00		Lunch

Afternoon Session (1:00 – 4:50)

1:00 – 1:55	406	Course Lecture 3 Robert Strichartz, Cornell University Laplacian on the Sierpinski gasket
	203	Alexander Teplyaev (elaborations)
2:00 – 2:55	406	Course Lecture 4 Jun Kigami, Kyoto University Introduction to heat kernels
	203	Peter Grabiner (elaborations)
	207	Michel Lapidus (elaborations)
3:00 – 3:30		Refreshments in the lounge
3:30 – 3:45	406	Sze-Man Ngai, Georgia Southern University Fractal Laplace operators on open subsets of \mathbb{R}^d

	203	Roland Etienne Some Numerical Results for the Spectrum of Monoatomic Cantor Chains
3:50 – 4:05	406	Vadim Kaimanovich, University of Breman Amenability of self-similar groups and random walks with internal degrees of freedom.
	203	John Lu, NIST Fractal Geometry in Signal Processing and Statistics
4:10 – 4:25	406	Dorin Ervin Dutkay, Rutgers University Ruelle operators and harmonic analysis of fractal measures

Thursday, June 2

Morning Session (9:30 – 11:40) in room 406

9:30 – 10:00		Robert Strichartz, Cornell University The significance of spectral gaps
10:05 – 10:30		Refreshments in lounge
10:30 – 11:00		Ben Hambly, Oxford The heat content and partition function for the Sierpinski carpet
11:05 – 11:35		Tom Lindstrom, University of Oslo Self-homeomorphic fractals - a natural setting for analysis on fractals?
11:40 – 1:00		Lunch Break

Afternoon Session (1:00 – 4:50)

1:00 – 1:55	406	Course Lecture 5 Alexander Teplyaev Properties of the Laplacian on SG
	206	Robert Strichartz (elaborations)
2:00 – 2:55	406	Course Lecture 6 Takashi Kumagai, Kyoto University Resistance forms and heat kernels
	203	Ben Hambly (elaborations)
	207	Tom Lindstrom (elaborations)
3:00 – 3:30		Refreshments in the lounge
3:30 – 3:45	406	Kasso Okoudjou, Cornell University Weak uncertainty principles on fractals
	203	Ramash Chand Mittal, IIT Roorkee Random fractal generation
3:50 – 4:05	406	Gunther Schweitzer, University of Technology Graz.

		Average displacement on symmetric self-similar graphs
	203	Abdul Khaliq, University of Jammu Deterministic and random vector equilibrium problems
4:10 – 4:25	406	Shawn Drenning, Cornell University Spectral decimation on Hambly's homogeneous hierarchical gaskets
4:30 – 4:45	406	Britta Daudert, UC Riverside, Localization of eigenfunctions on snowflake domains
Friday, June 3		
Morning Session (9:30 – 11:40) in room 406		
9:30 – 10:00		Christophe Sabot, UMPA, ENS Lyon Spectral Analysis of a self-similar Sturm-Liouville operator
10:05 – 10:30		Refreshments in the lounge
10:30 – 11:00		Zhen-Qing Chen, University of Washington Heat kernel estimates for jump processes of mixed Types on metric spaces
11:05 – 11:35		Ka-Sing Lau, Chinese University of Hong Kong Martin boundaries and analysis on fractals
11:40 – 1:00		Lunch Break
Afternoon Session (1:00 – 4:50)		
1:00 – 1:55	406	Course Lecture 7 Alexander Teplyaev, University of Connecticut Spectral decimation on SG
	203	Christophe Sabot (elaborations)
2:00 – 2:55	406	Course Lecture 8 Martin Barlow, University of British Columbia Heat kernels on measure-metric spaces
	203	Zhen-Qing Chen (elaborations)
	207	Ka-Sing Lau (elaborations)
3:00 – 3:30		Refreshments in the lounge
3:30 – 3:45	406	Andras Telcs, SZIT BME Random walk on weakly homogeneous graphs
	203	Mamta Rani, U.P. Technical University, Lucknow General Pascal triangle and their cellular automata
3:50 – 4:05	406	Anders Pelander, Uppsala University Infinite dimensional perturbations of i.f.s. and infinitesimal behavior of smooth functions on the Sierpinski gasket

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| | 203 | Victor Sirvent, Universidad Simon Bolivar
Space filling-curves and geodesic laminations |
| 4:10 – 4:25 | 406 | Prabhu Janakiraman, University of Illinois, Urbana
Limiting weak-type behavior of the vector Riesz transform acting on singular measures |
| 4:30 – 4:45 | 406 | Erin Pearse, University of California, Riverside
A tube formula for the Koch snowflake curve, with applications to complex dimensions |

Saturday, June 4, 2005

Morning Session (9:30 – 11:40) in room 406

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| 9:30 – 10:00 | | Masanori Hino, Kyoto University
On singularity of energy measures on self-similar sets |
| 10:05 – 10:30 | | Refreshments in the lounge |
| 10:30 – 11:40 | | Open Problems Session |
| 11:40 – 1:00 | | Lunch Break |

Afternoon Session (1:00 – 4:30)

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| 1:00 – 1:55 | 406 | Course Lecture 9
Jun Kigami
Laplacians on p.c.f. fractals |
| | 203 | Masanori Hino (elaborations) |
| 2:00 – 2:55 | 406 | Course Lecture 10
Ben Hambly
Heat kernels on fractals |
| 3:00 – 3:30 | | Refreshments in the lounge |
| 3:30 – 3:45 | 406 | Roberto Peirone, Universita di Roma Tor Vergata
Existence of eigenforms for renormalization with weights on fractals |
| 3:50 – 4:05 | 406 | Po-Lam Yung, Chinese University of Hong Kong
Doubling properties of self-similar measures |
| 4:10 – 4:25 | 406 | Anna Soos, Babes-Bolyai University
IFS and Homogenization |