

Daily Programmes

International Conference on Fractal Geometry & Related Topics



Programme for 11 December 2023, Monday

9:00–9:40	Registration
9:40–9:50	Opening
	Chair: Ai-Hua Fan
9:50–10:35	Fractal percolation on statistically self-similar and self-affine sets Kenneth J. Falconer , <i>University of St Andrews</i>
	Coffee Break/Registration
10:55–11:40	Hausdorff dimension of intersections Pertti Mattila , <i>University of Helsinki</i>
11:45–12:30	Multiplicative Markoff-Lagrange spectrum and symbolic dynamics Shigeki Akiyama , <i>University of Tsukuba</i>
	Lunch
	Chair: Jun Wu
14:00–14:45	Some examples of random covering sets Esa Järvenpää , <i>University of Oulu</i>
14:50–15:35	Measures, annuli and dimensions Stéphane Seuret , <i>Université Paris-Est Créteil</i>
	Coffee Break
15:55–16:40	Measure and dimension theory for limsup sets generated by rectangles Baowei Wang , <i>Huazhong University of Science and Technology</i>

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Programme for 12 December 2023, Tuesday

	Chair: Kenneth Falconer
9:00–9:45	On the dimensions of random statistically self-affine Baransky carpets and sponges Julien Barral , <i>Université Sorbonne Paris Nord</i>
9:50–10:35	Conformal dimension of p.c.f. self-similar sets Hui Rao , <i>Central China Normal University</i>
	Coffee Break
10:55–11:40	Dimension of planar non-conformal attractors with triangular derivative matrices Balázs Bárány , <i>Budapest University of Technology and Economics</i>
11:45–12:30	Dimension of higher dimensional irreducible self-affine measures Meng Wu , <i>University of Oulu</i>
	Lunch
	Chair: Xiong Jin
14:00–14:30	Spectral analysis for some periodic quantum graphs Chun-Kong Law , <i>National Sun Yat-sen University</i>
14:35–15:05	Birth-death type random walks on hyperbolic graphs Shi-Lei Kong , <i>Sichuan University</i>
15:10–15:40	Bi-accessibility dimension of quadratic Julia sets Jun Luo , <i>Sun Yat-Sen University</i>
	Coffee Break
16:00–16:45	On Erdős similarity problem and its variants Chun-Kit Lai , <i>San Francisco State University</i>
16:50–17:35	The products of calibrated sets and paired calibrated sets in Plateau's problem Xiangyu Liang , <i>Beihang University</i>

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Programme for 13 December 2023, Wednesday

	Chair: Meng Wu
9:00–9:45	On the fibres of planar self-similar sets with dense rotations Xiong Jin , <i>University of Manchester</i>
9:50–10:35	Loosely Bernoulli nonhyperbolic ergodic measures Michał Rams , <i>Polish Academy of Sciences</i>
	Coffee Break
10:55–11:40	Density of minimal points and Bergelson-Hindman question Wen Huang , <i>University of Science and Technology of China</i>
11:45–12:30	“Entropies” in negatively curved spaces Lin Shu , <i>Peking University</i>
	Lunch
	Chair: Balázs Bárány
14:00–14:30	Uniform approximation problems of expanding Markov maps Lingmin Liao , <i>Wuhan University</i>
14:35–15:05	L^p estimates of orthogonal projections, dual Furstenberg problem, and discretized sum-product Bochen Liu , <i>Southern University of Science and Technology</i>
15:10–15:40	Dimensions of non-autonomous self-affine sets Jun-Jie Miao , <i>East China Normal University</i>
	Coffee Break/Group Photo
	Chair: Sze-Man Ngai
16:10–16:40	Life and pictures of Ka-Sing Lau Eveline Young , <i>Pittsburgh</i>
16:40–17:10	Audience recollections of Ka-Sing Lau
17:10–17:15	Award presentation of Professor Ka-Sing Lau Scholarship for Mathematics 2023–24
19:00–22:00	Banquet

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Programme for 14 December 2023, Thursday

	Chair: Alexander Grigor'yan
9:00–9:45	Yet another construction of “Sobolev spaces” on metric spaces Jun Kigami , <i>Kyoto University</i>
9:50–10:35	Reflected diffusion on uniform domains Mathav Murugan , <i>University of British Columbia</i>
	Coffee Break
10:55–11:40	BV functions and fractional Laplacians on Dirichlet spaces Alexander Teplyaev , <i>University of Connecticut</i>
11:45–12:30	Spectral properties of Krein-Feller operators Sze-Man Ngai , <i>Hunan Normal University and Georgia Southern University</i>
	Lunch
	Half Day Free

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International Conference on Fractal Geometry & Related Topics



Programme for 15 December 2023, Friday

	Chair: Julien Barral
9:00–9:45	Tails of heat kernels for jump processes Alexander Grigor'yan , <i>Universität Bielefeld</i>
9:50–10:35	The weak and strong elliptic Harnack inequalities Jiaxin Hu , <i>Tsinghua University</i>
	Coffee Break
10:55–11:40	Stationary random fields and Trigonometric multiplicative chaos Ai-Hua Fan , <i>Université de Picardie & Central China Normal University</i>
11:45–12:30	Products of random matrices Quansheng Liu , <i>Université de Bretagne-Sud</i>
	Lunch
	Chair: Lin Shu
14:00–14:30	Almost sure dimensional properties for the spectrum and the density of states of Sturmian Hamiltonians Yanhui Qu , <i>Tsinghua University</i>
14:35–15:05	Local times of anisotropic Gaussian random fields and stochastic heat equation Cheuk Yin Lee , <i>The Chinese University of Hong Kong (Shenzhen)</i>

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