	10 December 2012 (Me	onday)	
08:30 - 09:15	Registration [1/F]		
09:15 - 09:25	Opening [LT 7 (1/F)] Professor Nai Ching Henry Wong (Pro-Vice-Chancellor and Dean of Science)		
	Chair: Ka-Sing La	AU [LT 7 (1/F)]	
09:25 - 10:05	An analytic inequality and higher multifractal moments Kenneth J. FALCONER, University of St Andrews		
10:10 - 10:50	Projection and slicing theorems in Heisenberg groups Pertti MATTILA, University of Helsinki		
	Coffee Break/ Registration [1/F]		
	Session One[LT1 (LG/F)]Session Two[LT2 (LG/F)]Chair: Martina ZÄHLEChair: Stéphane JAFFARD		
11:15 – 11:45	Progress on self similar sets and measures with overlaps Mike HOCHMAN, The Hebrew University	Harmonic analysis of affine fractals Palle E.T. JORGENSEN, University of Iowa	
11:50 - 12:20	Bernoulli convolutions and branching dynamical systems Christoph BANDT, Greifswald, Germany	Measure of Self-Affine Sets and Associated Densities Jean-Pierre GABARDO, McMaster University	
	LUNCH		

	Session One [LT1 (LG/F)] Chair: Károly SIMON		Session Two [LT2 (LG/F)] Chair: Örjan STENFLO		
14:00 - 14:30	Hausdorff dimension of affine random covering sets in torus Maarit JÄRVENPÄÄ, University of Oulu		Analytic continuation of fractal functions Michael BARNSLEY, Australian National University		
14:35 - 15:05	Dimensions of random affine code tree fractals Esa JÄRVENPÄÄ, University of Oulu			Dual Systems of algebraic iterated function systems Hui RAO, Central China Normal University	
15:10 - 15:40	Iteration of polynomials, functional equations, and fractal zeta functions <i>Peter GRABNER, Technische Universität Graz</i>			etection and statistical ranking with homologies of digraphs Yong LIN, People's University of China	
	Coffee Break [LG/F]				
	Session One [LT1 (LG/F)] Chair: Wenxia LI	Session Two [LT2 (LG/F)] Chair: Alexander TEPLYAEV		Session Three [304 (3/F)] Chair: Jun WU	
16:00 - 16:20	Hausdorff dimension of metric spaces and Lipschitz maps onto cubes Tamás KELETI, Eötvös Loránd University	Spectral analysis of V-variable Sierpinski gaskets Uta FREIBERG, University of Siegen		Inhomogeneous Diophantine approximation with general error functions Lingmin LIAO, University Paris-East	
16:25 – 16:45	Some progresses on Lipschitz equivalence of self-similar sets Huojun RUAN, Zhejiang University	Pseudo-differential operators on fractals Luke ROGERS, University of Connecticut		Localized Birkhoff average in beta dynamical systems Baowei WANG, Huazhong University of Science and Technology	
16:50 – 17:10	Ideal class and Lipschitz equivalent class Ying XIONG, South China University of Technology	Hanoi attractors and the Sierpinski gasket: Geometric and analytic convergence Patricia ALONSO RUIZ, University of Siegen		Diophantine approximation of the orbit of 1 in beta-transformation dynamical system Bing LI, South China University of Technology and University of Oulu	

11 December 2012 (Tuesday)				
	Chair: Jun KIGAMI [LT7]			
08:30 - 09:10	Regularity of the entropy for random walks on hyperbolic groups François LEDRAPPIER, University of Notre Dame			
09:15 – 09:55	Fluctuations of recentered maxima of discrete Gaussian Free Fields on a class of recurrent graphs Takashi KUMAGAI, Kyoto University			
10:00 - 10:40	Reflecting random walk in fractal domains Zhen-Qing CHEN, University of Washington			
	Coffee Break [1/F]			
	Session One [LT1] Session Two [LT2] Chair: Mike HOCHMAN Chair: Uta FREIBERG			
11:00 - 11:30	Veech problem and its higher order form Xiangdong YE, University of Science and Technology of China	A new approach to Gaussian upper bounds for the heat kernel on doubling metric measure spaces <i>Thierry COULHON, The Australian National University</i>		
11:35 – 12:05	Continuity of subadditive pressure Pablo SHMERKIN, University of Surrey	Heat kernels and Green functions on metric measure spaces Jiaxin HU, Tsinghua University		
	LUNCH			

	Session One [LT1] Chair: Michal RAMS		Session Two [LT2] Chair: Luke ROGERS		
14:00 – 14:30	Periodic orbits of discretized rotations Shigeki AKIYAMA, Tsukuba University			Spectral and vector analysis on fractafolds Alexander TEPLYAEV, University of Connecticut	
14:35 – 15:05	Stable sets in Z ⁿ -systems with positive entropy Wen HUANG, University of Science and Technology of China			ive limits on the Penrose tiling TELCS, University of Pannonia	
15:10 - 15:40	The dimension of the full nonuniformly hyperbolic horseshoe Yongluo CAO, Suzhou University			and intrinsic distances on some fractal sets nori HINO, Kyoto University	
	Coffee Break [LG/F]				
	Session One [LT1] Chair: Bo TAN	Session Two [LT2] Chair: Tamás KELETI		Session Three [304] Chair: Jiaxin HU	
16:00 - 16:20	Ruelle Operator with weakly contractive IFS Yuanling YE, South China Normal University	Iterated function systems with a given continuous stationary distribution Örjan STENFLO, Uppsala University		Heat kernel estimates on a connected sum along a joint with a capacity growth Satoshi ISHIWATA, Yamagata University	
16:25 – 16:45	Patterns generation problems arising in multiplicative integer systems Jung-Chao BAN, National Dong Hwa University	Modified singular value functions and self-affine carpets Jonathan FRASER, University of St Andrews		Periodic and non-periodic aspects of the heat kernel asymptotics on Sierpinski carpets Naotaka KAJINO, Universität Bielefeld	
16:50 – 17:10	Three-dimensional flows: several phenomena Dawei YANG, Jilin University	Entropy and geometric measure theory Tuomas SAHLSTEN, University of Helsinki		On exact scaling log-Infinitely divisible cascades Xiong JIN, University of St Andrews	

12 December 2012 (Wednesday)				
	Chair: Kenneth J. FALCONER [LT1]			
08:30 - 09:10	Fractal properties of the Schramm-Loewner evolution Gregory F. LAWLER, University of Chicago			
09:15 – 09:55	Computing Singularity Dimension Mark POLLICOTT, University of Warwick			
10:00 - 10:40	Partition, volume doubling property and quasisymmetry on metric-measure spaces Jun KIGAMI, Kyoto University			
	Coffee Break [LG/F]			
	Section One [LT1] Chair: Joerg SCHMELING	Section Two [LT2] Chair: Jean-Pierre GABARDO		
11:00 - 11:30	Projections of Mandelbrot percolations Károly SIMON, Technical University of Budapest	The abc-problem for Gabor system Qiyu SUN, University of Central Florida		
11:35 – 12:05	Sums of random Cantor sets Michal RAMS, Polish Academy of SciencesFrames for fractal measures and group representations Deguang HAN, University of Central Florida			
	LUNCH			

	Session One [LT1] Chair: Thomas JORDAN		Session Two [LT2] Chair: Hui RAO	
14:00 - 14:30	Multifractal analysis of arithmetic functions Stéphane JAFFARD, Université Paris Est		Spectra on fractal measures Xinrong DAI, Sun Yat-sen University	
14:35 - 15:05	Hardy-Littlewood series and (even) continued fractions Stéphane SEURET, Université Paris Est		Exponential spectra in $L^2(\mu)$ Xinggang HE, Central China Normal University	
15:10 - 15:40	Multifractal analysis on infinitely generated self-affine sets Antti KÄENMÄKI, University of Jyväskylä		Bi-Affine Fractal Interpolation Functions and their Box Dimension Peter MASSOPUST, Technische Universitát München and Helmholtz Zentrum München	
	Coffee Break [LG/F]			
	Session One [LT1] Chair: Yimin XIAO	Session Two [LT2] Chair: Pablo SHMERKIN		Session Three [304] Chair: Huojun RUAN
16:00 – 16:20	Conformal Invariance of the Exploration Path in 2D Critical Bond Percolation in the Square Lattice S.C.P. YAM, The Chinese University of Hong Kong	Probabilistic Approach to Radix Representation and Pseudodigits <i>Eva CURRY, Acadia University</i>		New developments of fractal PDE Weiyi SU, Nanjing University
16:25 – 16:45	Discrete Fractal Dimensions of the Ranges of RandomWalks in Z ^d Associate with Random Conductances Xinghua ZHENG, Hong Kong University of Science and Technology	Fractal tiles and quasidisks Tai-Man TANG, Xiangtan University		Fractal dimensions of spectrum of Schrödinger operator with Sturm Potential Qinghui LIU, Beijing Institute of Technology
16:50 – 17:10	Packing Dimension Results for Anisotropic Gaussian Random Fields Dongsheng WU, University of Alabama in Huntsville	An introduction to the theory of minimal sets and their local structure <i>Xiangyu LIANG, Université Paris-Sud 11</i>		Zeta Functions and Complex Dimensions of Bounded Sets in Euclidean Space John A. ROCK, Cal Poly Pomona
19:00 – 22:00	BANQUET			

13 December 2012 (Thursday)				
	Chair: Jaques PEYRIÈRE [LT1]			
08:30 - 09:10	On stochastic completeness of jump processes Alexander GRIGOR'YAN, Universität Bielefeld			
09:15 - 09:55	Approximation of fractals by tubular neighborhoods - geometric and analytic properties Martina ZÄHLE, Friedrich Schiller University Jena			
10:00 - 10:40	Open set condition for graph directed self-similar structure Zhiying WEN, Tsinghua University			
	Coffee Break [LG/F]			
	Session n One [LT1] Chair: Shigeki AKIYAMA	Session Two [LT2] Chair: Antti KÄENMÄKI		
11:00 - 11:30	Sets of exact approximation order by rational numbers Yann BUGEAUD, Université de Strasbourg	Recent advances in Mandelbrot martingales theory Julien BARRAL, Université Paris 13		
11:35 - 12:05	The dimensional theory of continued fractions Jun WU, Huazhong University of Science and Technology	Mandelbrot's cascade in a random environment Quansheng LIU, Université de Bretagne - Sud and Beijing Technology and Business University		
	LUNCH			
	HALF DAY TOUR			

	14 December 2012 (Friday)			
	Chair: Zhiying Wen [LT1]			
08:30 - 09:10	Multifractal analysis of some multiple ergodic average – The Hausdorff spectrum Ai Hua FAN, Université de Picardie Jules Verne			
09:15 - 09:55	Multifractal analysis of some multiple ergodic average – The invariant spectrum Jöerg SCHMELING, Lund University			
	Coffee Bre	ak [LG/F]		
	Session One[LT1]Session Two[LT2]Chair: Quansheng LIUChair: Weiyi SU			
10:10 - 10:40	Brownian Motion and Thermal Capacity Yimin XIAO, Michigan State University	A multifractal analysis for which Olsen's b and B functions differ Jaques PEYRIÈRE, Université Paris-Sud		
10:45 – 11:15	Fractional Lévy Processes: Paths, Dimensions, and Related Narn-Rueih SHIEH, National Taiwan University	Intersection properties of random and deterministic measures Ville SUOMALA, University of Oulu		
11:20 - 11:50	Zeros distribution of derivatives of random polynomials with i.i.d. zeros <i>Tuen-Wai NG, University of Hong Kong</i> Boundary theory and self-similar set <i>Xiangyang WANG, Sun Yat-Sen University</i>			
11:55 – 12:25	Infinite iterated function systems with overlaps Sze-Man NGAI, Georgia Southern University and Hunan Normal University	Some applications of fractal methods to geomagnetic data analysis Zuguo YU, Xiangtan University and Queensland University of Technology		
	LUNCH			

	Session One [LT1] Chair: Ville SUOMALA	Session Two [LT2] Chair: Eva CURRY	Session Three [304] Chair: Lin SHU
14:00 - 14:20	Periodic billiard orbits in planar Sierpinski carpets Joe Po-Chou CHEN, Cornell University	Isodiametric problems with respect to Hausdorff measure Jun LUO, Zhongshan University	Modeling potential as fiber entropy and pressure as entropy Guohua ZHANG, Fudan University
14:25 – 14:45	Gaussian free fields on self-similar fractals Baris UGURCAN, Cornell University	Connectedness of Self-affine Sets Associated with 3-digit Sets King-Shun LEUNG, The Hong Kong Institute of Education	A generalization of Jarnik-Besicovitch Theorem by continued fraction Jian XU, Huazhong University of Science and Technology
14:50 - 15:10	Eigenvalues of the Laplacian on Cantor-sets via modified trigonometric functions Peter ARZT, University of Siegen	Fourier frames on measure spaces Chun Kit LAI, McMaster University	On the strongly tridiagonal competitive-cooperative system <i>Chun FANG, University of Helsinki</i>
15:15 – 15:35	Slices through self-similar sets Rüdiger ZELLER, Arndt University of Greifswald	Fundamental groups of Rauzy fractals Timo JOLIVET, Université Paris Diderot	Energy Measures of Harmonic Functions on the Sierpinski Gasket Ching Wei HO, The Chinese University of Hong Kong
15:40 - 16:00	Hausdorff dimension of uniformly random self-affine sets Henna KOIVUSALO, University of Oulu		