



Department of Mathematics
The Chinese University of Hong Kong

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Workshop on Fractals and Related Fields

Saturday, 11 February 2012

Room 222, Lady Shaw Building, CUHK

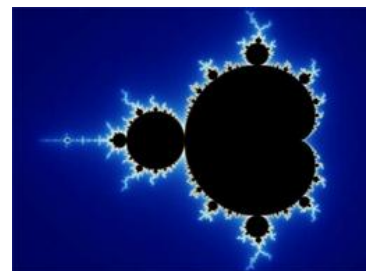
The workshop emphasizes on the recent theoretic developments on fractals and related fields. Topics include iterated function systems, geometric measure theory, dynamical systems, analysis on fractals and metric measure spaces.

Organizers: *De-Jun Feng*, The Chinese University of Hong Kong

Ka-Sing Lau, The Chinese University of Hong Kong

Speakers include:

- *Teturo Kamae*, Matsuyama University
- *Chun-Kit Lai*, The Chinese University of Hong Kong
- *Paul Lee*, The Chinese University of Hong Kong
- *Jun Luo*, Zhongshan University
- *Jun Jason Luo*, The Chinese University of Hong Kong
- *Junjie Miao*, East China Normal University
- *Narn-Rueih Shieh*, National Taiwan University & CUHK
- *Pablo Shmerkin*, University of Surrey
- *Ville Suomala*, University of Oulu
- *Donglei Tang*, Nanjing Audit University
- *Zuguo Yu*, Xiangtan University



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Program

9:00am – 9:30am **Narn-Rueih Shieh (National Taiwan University & CUHK)**
Multi-Scaling Limits for Relativistic Diffusion Equations with Random Initial Data

9:35am – 10:05am **Paul Lee (The Chinese University of Hong Kong)**
Measure Contraction Property of Sub-Riemannian Manifolds in 3D

Tea Break

10:20am – 10:50am **Pablo Shmerkin (University of Surrey)**
Sets which are not Tube-null and Projections of Random Measures

10:55am – 11:25am **Ville Suomala (University of Oulu)**
Characterising Null Sets and Sets of Positive Measure for all Doubling Measures

11:30am -12:00noon **Donglei Tang (Nanjing Audit University)**
The Laplacian on p.c.f. Self-Similar Sets via the Method of Averages

2:00pm – 2:30pm **Teturo Kamae (Matsuyama University)**
Super-Stationary Factors of Symbolic Dynamics

2:35pm – 3:05pm **Chun-kit Lai (The Chinese University of Hong Kong)**
On Fourier Frames of Self-Affine Measures

3:10pm – 3:40pm **Jun Luo (Zhongshan University)**
Barnsley Attractors of Iterated Function Systems

Tea Break

3:55pm – 4:25pm **Junjie Miao (East China Normal University)**
Local Dimensions of Measures on Self-Affine Sets

4:30pm – 5:00pm **Jun Jason Luo (The Chinese University of Hong Kong)**
Lipschitz Equivalence Problem on Fractal Sets

5:05pm – 5:35pm **Zuguo Yu (Xiangtan University)**
Fractal Analysis of Complex Networks

~~ All Are Welcome ~~