國立中山大學應用數學系
學術演講

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講　題：Random walks and induced Dirichlet forms fractals

時　間：2016/8/18（星期四）16:10 ~ 17:00

地　點：理學院四樓理 SC 4009-1 室

茶　會：15:30 於理 SC 4010 室（系辦公室）

摘 要

One of the main directions in the analysis of fractals is to study the Laplacian and fractional Laplacians on fractals sets, which corresponds to the local and non-local Dirichlet forms in the general setting. In this talk we introduce a certain class of random walks on the "augmented tree" with return ratio λ, they induce non-local Dirichlet forms on K that have kernel $\Theta(x,y) \asymp |x-y|^{-(\alpha+\beta)}$, where α is the Hausdorff dimension of K, and $\beta = \log\lambda/\log r$ where $r = \min_i\{r_i\}$ and r_i is the contraction ratios of the IFS of K. This is a typical kernel for a fractional Laplacian in the classical case. We will discuss the consequence and the problems arisen.

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