

國立中山大學應用數學系

學術演講

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講題：Analytic and combinatorial aspects of bi-free partial r-transform

時間：2015/11/26（星期四）15：10～16：00

地點：理學院四樓理 SC 4009-1 室

茶會：16:00 於理 SC 4010 室（系辦公室）

摘要

In this talk, we will explain that the bi-freely infinitely divisible laws, and only these laws, can be used to approximate the distributions of sums of identically distributed bi-free pairs of commuting faces. Furthermore, the necessary and sufficient conditions for this approximation will be given. We will also discuss bi-free convolution semigroups of measures and their Lévy-Khintchine representations from an infinitesimal point of view. The proofs depend on the harmonic analysis machinery we developed for integral transforms of two variables, and the combinatorics of moments and bi-free cumulants. If time permits, we will talk about some recent developments in this direction.

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