國立中山大學應用數學系
學術演講

講　者：　Dr. Le Hai Khoi 教授
　　　　　Nanyang Technological University, Singapore
講　題：　Complex symmetric weighted composition operators
　　　　　on Fock spaces
時　間：2016/12/15（Thursday）14:10 ~ 15:00 pm
地　點：理學院四樓理 SC 4009-1 室
茶　會：15:00 於理 SC 4010 室（系辦公室）

Abstract

　　The general study of the complex symmetry was commenced by Garcia and Putinar (2006-2007). Thereafter, a number of the papers is devoted to the topic. The results show that the bounded complex symmetric operators are quite diverse. It includes the Volterra integration operators, normal operators, compressed Toeplitz operators, etc.

　　A question about whether there exist the complex symmetric weighted composition operators was analyzed recently by Garcia-Hammond and Jung-Kim-Ko-Lee (2014), for Hardy spaces in the unit disk. Independently, they discovered the complex symmetric structure when the conjugation is of the form $\mathsf{C} f(z) = \overline{f(\overline{z})}$.

　　In this talk, we introduce a new concept of general weighted composition conjugations of the form

$$\left(\mathsf{C}_{\xi,\eta}\, f\right)(z) = \xi(z)\overline{f(\overline{\eta(z)})}.$$

on the Fock space $\mathsf{F}^2(\square)$ and study the conditions under which weighted composition operators are complex symmetric.

　　The results are based on joint work with P.V. Hai.

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