

國立中山大學應用數學系

學術演講

講者：葉永南研究員

中央研究院數學所

講題：David-Barton type identities and alternating run polynomials

時間：2020/09/30 (Wednesday) 15:10 ~ 16:00

地點：理學院四樓理 SC 4013

茶會：14:30 於理 SC 4010 室 (系辦公室)

Abstract

In this talk, we first consider an alternate formulation of the David-Barton identity which relates the alternating run polynomials to Eulerian polynomials. By using this alternate formulation, we see that for any γ -positive polynomial, there exists a David-Barton type identity. We then consider the joint distribution of cycle runs and cycles over the set of permutations. Furthermore, we introduce the definition of semi- γ -positive polynomial. The γ -positivity of a polynomial $f(x)$ is a sufficient (not necessary) condition for the semi- γ -positivity of $f(x)$. We show that the alternating run polynomial of dual Stirling permutations is semi- γ -positive but not γ -positive.

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