國立中山大學應用數學系
學術演講

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講　題：A consequence of Bertrand's postulate and beyond

時　間：2018/12/13（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

Bertrand's postulate assures that for any positive integer n>3 there exists a prime p between n and 2n. A consequence of Bertrand's postulate states that the set of integers {1,2,...,2n} can be partitioned into pairs so that the sum of each pair is a prime number for any positive integer n. In this talk, I will introduce its proof and a stronger conjecture by Filz in 1982 that the set of integers {1,2,...,2n} can be rearranged into a cycle so that the sum of any two adjacent integers is a prime number. With a fundamental result in graph theory and a recent breakthrough on the twin prime conjecture, we prove that Filz's conjecture is true for infinitely many cases. This talk is based on a joint work with Professor Hung- Lin Fu and Professor Jun-Yi Guo.

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