國 立 東 華 大 學 應 用 數 學 系
專 題 演 講

主講人：陳鵬安教授

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講　題：On the circular chromatic number of Kneser graphs

時　間：99年11月17日(星期三)10:10-12:00

摘　要

In 1997, Johnson, Holroyd and Stahl conjectured that the circular chromatic number of the Kneser graphs $KG(n,k)$ is equal to the chromatic number of these graphs. Hajiabolhassan and Zhu (2003) proved that for any positive integer k, if $n \geq 2k^2(k-1)$, then $KG(n,k)$ has its circular chromatic number equals its chromatic number. They provided strong support for the conjecture.

It was proved by Simonyi and Tardos (2006), and independently by Meunier (2005), if $\chi(KG(n,k))$ is even, then $\chi_c(KG(n,k)) = \chi(KG(n,k))$. Recently, we propose an alternative version of Kneser's coloring theorem to confirm the Johnson-Holroyd-Stahl conjecture.

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