國立中山大學應用數學系 學術演講

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講　　題：r-Equitable Δ-Coloring of Graphs
時　　間：2015/4/9（星期四）14：10～15：00
地　　點：理學院四樓理 SC 4011 室
茶　　會：13:40 於理 SC 4010 室（系辦公室）

摘要

Consider a graph G consisting of a vertex set $V(G)$ and an edge set $E(G)$. Let $\Delta(G)$ and $\chi(G)$ denote the maximum degree and the chromatic number of G, respectively. For any $r \geq 0$, we say that G is r-equitably $\Delta(G)$-colorable if there exists a proper $\Delta(G)$-coloring of G such that the sizes of any two color classes differ by at most r. Obviously, if G is r-equitably $\Delta(G)$-colorable, then $\Delta(G) \geq \chi(G)$. Conversely, even if G satisfies $\Delta(G) \geq \chi(G)$, we cannot guarantee that G must be r-equitably $\Delta(G)$-colorable. In 1994, the Equitable Δ-Coloring Conjecture (EΔCC) asserts that a connected graph G with $\Delta(G) \geq \chi(G)$ is 1-equitably $\Delta(G)$-colorable if G is different from $K_{2n+1,2n+1}$ for all $n \geq 1$. In this talk, we will propose (and study) a similar conjecture as EΔCC on r-equitable coloring of graphs for any $r \geq 2$.

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