國立中山大學應用數學系 學術演講

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講 題: Covering vertices by monochromatic

subgraphs in edge-colored graphs

時 間:2014/03/25(星期二)14:10~15:00

地 點:理學院四樓理 SC 4011-2 室

茶 會:13:30 於理 SC 4010 室 (系辦公室)

摘要

We consider several covering problems in edge-colored graphs. So far, much work has been done on covering problems in edge-colored complete graphs K_n . Those come from a variety of background, but mostly the purpose in this topic is to cover the whole vertex set of the K_n by monochromatic connected subgraphs. Some recent results on this topic will be reviewed. We also introduce a covering problems on edge-colored complete bipartite graphs. We conjecture that any r-edge-colored complete bipartite graph $K_{m,n}$ can be covered by at most 2r-2 monochromatic connected subgraphs. One can easily check that it can be covered by at most 2r-1 monochromatic connected subgraphs. In fact there exists an r-edge-coloring such that we can not cover $V(K_{m,n})$ by 2r-3 monochromatic connected subgraphs. Recently, we showed that the conjecture is true for $2 \le r \le 5$.

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