

國立東華大學應用數學系
專題演講

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講題：The F -domination Problem of Graphs

時間：100年5月20日(星期五)15:10-16:10

摘要

Given a graph G and a set $S \subseteq V(G)$, a vertex v is said to be F -dominated by a vertex w in S if either $v = w$, or $v \notin S$ and there exists a vertex u in $V(G) - S$ such that $P: wuv$ is a path in G . A set $S \subseteq V(G)$ is an F -dominating set of G if every vertex v is F -dominated by a vertex w in S . The F -domination number of G , denoted by $\gamma_F(G)$, is the minimum cardinality of an F -dominating set of G . We consider the F -domination problem of graphs in this Ph.D. thesis. We prove that the F -domination problem is an **NP**-complete problem and give formulas to compute the F -domination number of $P_m \times P_n$ and $P_m \times C_n$ for special m, n .



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