

seminarium Matematyka Dyskretna

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ROOTED STRUCTURES IN GRAPHS

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A transversal of a partition is a set which contains exactly one element from each member of the partition and nothing else. Given a graph G and a subset T of its vertex set, a rooted minor of G is a minor such that Tis a transversal of its branch set. In this talk, we present several concepts of attaching rooted relatedness to ideas in structural graph theory. As an example, we discuss sufficient conditions for a rooted accentuation of Hadwiger's conjecture: Given a transversal of a colouring of a graph G, does Gcontain a rooted minor traversed by the transversal?