



## SEMINARIUM MATEMATYKA DYSKRETNA

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### The $k$ -path vertex cover problem

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For an integer  $k > 2$ , a  $k$ -path vertex cover of a graph  $G$  is a set  $T$  of vertices such that  $G - T$  does not contain a subgraph isomorphic to  $P_k$ . After reviewing some earlier results, we first prove general estimates on the corresponding graph parameter and then, we consider the problem on chordal graphs and planar graphs.