



THE $(k, n-k)$ -RECONSTRUCTION OF GRAPHS AND DIGRAPHS

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The Reconstruction Conjecture is famous still unsolved problem. The conjecture has been proved for several classes of graphs and graph invariants. It is also known that the conjecture is not true for digraphs - P. Stockmeyer has found an infinite family of non-reconstructible tournaments (Stockmeyer tournaments).

In this talk I would like to present a certain generalization of the graph reconstruction which is called $(k, n - k)$ -reconstruction (of graphs and digraphs). It is known that the graphs are $(1, n - 1)$ -reconstructible if and only if they are reconstructible. Situation is different if we consider digraphs. It is possible to show that the Stockmeyer tournaments do not form a counterexample for $(1, n - 1)$ -reconstruction of digraphs. Some recent results related to this topic will be discussed.