SEMINARIUM
MATEMATYKA DYSKRETNA

wtorek, 2 października 2012 r. godz. 12.45, s. 304 A3/A4

COMPUTATIONAL COMPLEXITY OF PARTITIONING A GRAPH INTO CONNECTED SUBGRAPHS

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Let $\tau = (n_1, ..., n_k)$ be a sequence of positive integers adding up to n. We say that a graph G with order n is *τ-partitionable* if and only if there exists a partition $(V_1, ..., V_k)$ of $V(G)$ such that each V_i has size n_i and induces a connected subgraph of G. Since the introduction of the definition above some decades ago, many partition problems have been considered. In this talk, we will discuss the hardness of some of these problems regarding computational complexity theory.