

Defective Ccolorings of Graphs

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Abstract

Given an integer k , a k -defective coloring is a partition of the vertex set where each part induces a graph with a maximum degree of at most k . A cocoloring is a partition where each part induces a complete or empty graph. The two concepts are the subject of several papers. In this talk we introduce a fusion of the two ideas. A k -defective cocoloring is a partition of the vertex set where each part induces a graph with maximum degree at most k or induces in the complement of such a graph. We discuss some preliminary notions related to this parameter.