

ON THE PALETTE NUMBER OF A GRAPH

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Let G be a finite simple graph, C a set of colours and $\varphi : E(G) \rightarrow C$ a proper edge colouring of G . The *palette* (or else the *colour set*) of a vertex $v \in V(G)$ (with respect to φ) is the set $\{\varphi(e) : e \ni v\}$ of colours of edges incident with v . The *palette number* of the graph G is the maximum number of (distinct) palettes in a proper edge colouring of G . An overview of results on the palette number will be presented.

Keywords: edge colouring, palette, palette number.

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