



完全图中的正常染色的路和圈

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Properly Colored Paths and Cycles in Complete Graphs

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摘要 令 K_n^c 表示 n 个顶点的边染色完全图.

令 $\Delta^{\{mon\}}$

(K_n^c) 表示 K_n^c 的顶点上关联的同种颜色的边的最大数目.

如果 K_n^c 中的一个圈(路)上相邻的边染不同颜色, 则称它为正常染色的.

B. Bollobás 和 P. Erdős (1976) 提出了如下猜想: 若 $\Delta^{\{mon\}}$

$(K_n^c) < \lfloor \frac{n}{2} \rfloor$, 则 K_n^c 中含有一个正常染色的 Hamilton 圈. 这个猜想至今还未被证明. 我们研究了上述条件下的正常染色的路和圈.

关键词: 正常染色圈 完全图

Abstract: Let K_n^c denote a complete graph on n vertices whose edges are colored in an arbitrary way. Let $\Delta^{\{mon\}}$

(K_n^c) denote the maximum number of edges of the same color incident with a vertex of K_n^c . A properly colored cycle (path) in K_n^c is a

cycle (path) in which adjacent edges have distinct colors. B. Bollobás and P. Erdős (1976) proposed the following conjecture: If $\Delta^{\{mon\}}$

$(K_n^c) < \lfloor \frac{n}{2} \rfloor$, then K_n^c contains a properly colored

Hamiltonian cycle. This conjecture is still open. In this paper, we study properly colored paths and cycles under the condition mentioned in the above conjecture.

Keywords: properly colored cycle, complete graph

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