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**Choosability of the square of planar subcubic graphs with large girth.** (English)

Zbl 1213.05084

Discrete Math. 309, No. 11, 3553-3563 (2009).

Summary: We show that the choice number of the square of a subcubic graph with maximum average degree less than  $18/7$  is at most 6. As a corollary, we get that the choice number of the square of a subcubic planar graph with girth at least 9 is at most 6. We then show that the choice number of the square of a subcubic planar graph with girth at least 13 is at most 5.

**MSC:**

05C15 Coloring of graphs and hypergraphs

05C10 Planar graphs; geometric and topological aspects of graph theory

Cited in 14 Documents

**Keywords:**

list colouring; square of a graph; bounded density; planar graph

**Full Text:** [DOI](#)

**References:**

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