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Circulant double coverings of a circulant graph of valency five

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摘要

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Circulant double coverings of a circulant graph of valency five

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Abstract Enumerating the isomorphism classes of several types of graph covering projections is one of the central research topics in enumerative topological graph theory. A covering of G is called circulant if its covering graph is circulant. Recently, the authors [*Discrete Math.*, **277**, 73--85 (2004)] enumerated the isomorphism classes of circulant double coverings of a certain type, called a typical covering, and showed that no double covering of a circulant graph of valency three is circulant. Also, in [*Graphs and Combinatorics*, **21**, 386--400 (2005)], the isomorphism classes of circulant double coverings of a circulant graph of valency four are enumerated. In this paper, the isomorphism classes of circulant double coverings of a circulant graph of valency five are enumerated.

Key words [graph covering](#) [voltage assignment](#) [Cayley](#) [circulant graph](#)

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