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DECOMPOSITION OF COMPLETE MULTIGRAPHS INTO STARS AND CYCLES

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Abstract

Let k be a positive integer, S_k and C_k denote, respectively, a star and a cycle of k edges. λK_n is the usual notation for the complete multigraph on n vertices and in which every edge is taken λ times. In this paper, we investigate necessary and sufficient conditions for the existence of the decomposition of λK_n into edges disjoint of stars S_k's and cycles C_k's.

Keywords: graph decomposition, complete multigraph, stars, cycles.

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