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Constructing the spectrum for packings of the complete graph with trees that have up to five edges. (English) [Zbl 1355.05196](#)

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For graphs G and H , a G -packing of H is a collection of subgraphs of H , each isomorphic to G , such that every edge of H is contained in at most one subgraph. Those edges of H which are not included in any of the subgraphs form the leave graph. A maximum G -packing of H is a packing with the smallest number of edges in the leave graph.

The spectrum problem for packing for a graph G is the problem of obtaining all possible leave graphs for G -packings of a complete graph K_n . Here, the authors solve the spectrum problem for packing for all trees with up to five edges.

Reviewer: [Dragan Stevanović \(Niš\)](#)

MSC:

05C70 Edge subsets with special properties (factorization, matching, partitioning, covering and packing, etc.)

05C05 Trees

Cited in 1 Document

Keywords:

packing; leave graph; complete graph