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Multipartite graph-sparse graph Ramsey numbers. (In English)

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Let F and G be finite graphs. The Ramsey number $r(F, G)$ is the smallest positive integer n so that, given any graph on n vertices, either it contains a subgraph isomorphic to F or its complement contains a subgraph isomorphic to G . In this paper, the Ramsey number $r(F, G)$ is determined in the case where F is an arbitrary fixed graph and G is a sufficiently large sparse connected graph with restrictions on the maximum degree of its vertices. An asymptotically correct upper bound is obtained for $f(F, T)$ where T is a sufficiently large, but otherwise arbitrary, tree.

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05C55 Generalized Ramsey theory

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Ramsey number; sufficiently large sparse connected graph