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Ramsey-minimal graphs for multiple copies. (In English)

Nederl. Akad. Wet., Proc., Ser. A 81, 187-195 (1978).

The authors use the notation $F \to (G, H)$ to indicate that if the edges of the graph F are colored with two colors, say red and blue, then either the red subgraph of F contains a copy of G or the blue subgraph of F contains a copy of H. The class of all graphs F for which $F \to (G, H)$ is denoted $R(G, H)$. In the case where $G = mK_{1,k}$ and $H = nK_{1,\ell}$, the authors show that he minimum number of edges in the graph in $R(G, H)$ is $(m + n - 1)(k + \ell - 1)$. The authors then give a conjecture for the correct formula where G and H are arbitrary star forests. The authors also ask if $F \to (nG, nG)$, must F contain $r(nG, nG)/|V(G)|$ copies of G.

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Classification:
05C55 Generalized Ramsey theory