

Size multipartite Ramsey numbers for stripes versus stripes

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Abstract

For graphs G and H , the size balanced Ramsey multipartite number $m_j(G, H)$ is defined as the smallest positive integer s such that any arbitrary red/blue coloring of the graph $K_{j \times s}$ forces the appearance of a red G or a blue H . In the main case of this paper we generalize methods used in finding bipartite Ramsey numbers for $b(nK_2, mK_2)$ to finding the balanced Ramsey multipartite number $m_j(nK_2, mK_2)$.