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Size Multipartite Ramsey Numbers for *K₄-e* Versus all Graphs up to 4 Vertices

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Abstract. Let G and H be two simple subgraphs of $K_{j \times s}$. The smallest positive integer s such that any red and blue colouring of $K_{j \times s}$ has a copy of red G or a blue H is called the multipartite Ramsey number of G and H. It is denoted by $m_j(G,H)$. This paper presents exact values for $m_j(B_2, G)$ where G is a isolate vertex free graph up to four vertices.

Keywords: Graph Theory, Ramsey Theory

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