SIG-DIMENSION OF $K_{2,2}-$FREE GRAPHS

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Abstract. This paper introduces an algorithmic approach to investigate into the SIG-dimension of graphs, under the sup-norm. We provide an upper bound for the SIG-dimension of graphs, without isolated vertices, which do not contain an induced subgraph isomorphic to $K_{2,2}$.

Key words and phrases. Sphere-of-influence, SIG-dimension, Sup-norm.