

The size-Ramsey number of powers of bounded degree trees

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Given a positive integer s , the s -colour size-Ramsey number of a graph H is the smallest integer m such that there exists a graph G with m edges where in any s -colouring of $E(G)$ there is a monochromatic copy of H . We prove that, for any positive integers k and s , the s -colour size-Ramsey number of the k th power of any n -vertex tree is linear on n .

This is a joint work with S. Berger, Y. Kohayakawa, G. S. Maesaka, T. Martins, W. Mendonça and O. Parczyk.