

FIBONACCI AND TELEPHONE NUMBERS IN EXTREMAL TREES

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Abstract

In this paper we shall show applications of the Fibonacci numbers in edge-coloured trees. In particular we determine the successive extremal graphs in the class of trees with respect to the number of $(A, 2B)$ -edge colourings. We show connections between these numbers and Fibonacci numbers as well as the telephone numbers.

Keywords: edge colouring, tripod, Fibonacci numbers, telephone numbers.

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