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Symmetric rational expressions in the Fibonacci numbers,
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Abstract

In this paper we consider the evaluation of numerical expressions obtained by specializing the n variables of a symmetric rational function to the Fibonacci numbers. In particular, we derive both exact and asymptotic formulas for elementary symmetric expressions in the Fibonacci numbers, and go on to demonstrate some applications of these results. The asymptotic formula is then generalized to all sequences sharing a particular mathematical property with the Fibonacci sequence.