Year: 2015 | Vol.: 86 | Fasc.: 3-4

**Title:** Diophantine quadruples in the sequence of shifted Tribonacci numbers

Author(s): Carlos Alexis Gómez Ruiz and Florian Luca

The Tribonacci sequence  $\{T_n\}_{n\geq 0}$  has initial values  $T_0 = 0$ ,  $T_1 = T_2 = 1$  and each term afterwards is the sum of the preceding three terms. In this paper, we study sequences  $a_1, \ldots, a_m$  of positive integers such that the product of any two different terms is a Tribonacci number. We prove that there is no such example with m = 4, give an example with m = 3, and leave as an open problem to find all examples for m = 3.

## Address:

Carlos Alexis Gómez Ruiz Departamento de Matemáticas Universidad del Valle Ap. Postal 25360 Cali Calle 13 # 100-00 Colombia

Address: Florian Luca School of Mathematics University of the Witwatersrand P.O. Box Wits 2050 South Africa and Mathematical Institute UNAM Juriquilla Ap. Postal 76230 Santiago de Querétaro México