Taras Goy and Roman Zatorsky

*On Oresme Numbers and Their Connection with Fibonacci and Pell Numbers,*

Fibonacci Quart. 57 (2019), no. 3, 238–245.

**Abstract**

In this paper, we consider determinants for some families of Toeplitz-Hessenberg matrices whose entries are Oresme numbers. These determinant formulas may also be rewritten as identities involving sums of products of Oresme numbers and multinomial coefficients. In particular, we establish a connection between the Oresme and the Fibonacci and Pell sequences via Toeplitz-Hessenberg determinants.