Alan Filipin, Bo He, and Alain Togbé
On the $D(4)$-Triple $\left\{F_{2 k}, F_{2 k+6}, 4 F_{2 k+4}\right\}$,
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## Abstract

Let $k$ be a positive integer. In this paper we study the $D(4)$ quadruples

$$
\left\{F_{2 k}, F_{2 k+6}, 4 F_{2 k+4}, d\right\},
$$

where $F_{k}$ is a $k$ th Fibonacci number. We prove that if $d$ is a positive integer such that the product of any two distinct elements of the set increased by 4 is a perfect square, then $d=4 F_{2 k+2} F_{2 k+3} F_{2 k+5}$. Therefore, we prove the uniqueness of the extension of another $D(4)$-triple involving Fibonacci numbers.

