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*The extendibility of  $D(4)$ -pair  $\{F_{2k}, 5F_{2k}\}$ ,*  
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**Abstract**

Let  $k \geq 1$  be an integer and let  $F_k$  be the  $k$ th Fibonacci number. In this paper we prove that if  $\{F_{2k}, 5F_{2k}, c, d\}$  with  $c < d$  is the set of four positive integers such that any product of its two distinct elements increased by 4 is a perfect square, then  $d$  is uniquely determined by  $k$  and  $c$ .