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*Patterns in Differences Between Rows in  $k$ -Zeckendorf Arrays*,  
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**Abstract**

For a fixed integer  $k \geq 2$ , we study the  $k$ -Zeckendorf array,  $\mathcal{X}_k$ , based upon the  $k$ th order recurrence  $u_n = u_{n-1} + u_{n-k}$ . We prove that the pattern of differences between successive rows is a  $k$ -letter infinite word generalizing the infinite Fibonacci word.