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*On the Sum of Digits of the Zeckendorf Representations of Two Consecutive Numbers,*

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**Abstract**

Let  $\mathbb{F}_0$  and  $\mathbb{F}_1$  be sets of natural numbers with even and odd sums of digits of their Zeckendorf representation. Suppose  $F_{i,j}(X) = \#\{n < X : n \in \mathbb{F}_i, n + 1 \in \mathbb{F}_j\}$ . We prove asymptotic formulas for  $F_{i,j}(X)$ .