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Sungkon Chang* (sungkon.chang@armstrong.edu), Department of Mathematics, Armstrong State University, 11935 Abercorn St, Savannah, GA 31419. *Average Number of Zeckendorf Integers.*

By Zeckendorf's theorem each positive integer is uniquely written as a sum of distinct non-adjacent terms of the Fibonacci sequence. This representability remains true for so called *the N th order Fibonacci sequence*, and for a further generalization to linear recurrences with positive coefficients. In this talk we consider sequences $\{G_n\}$ that have the same linear recurrence relations as the N th order Fibonacci sequence but has different initial values, and investigate the number of positive integers up to X that are written as a sum of distinct terms of G_n . (Received September 25, 2017)