Yufei Zhao The Coefficients of a Truncated Fibonacci Power Series, Fibonacci Quart. **46/47** (2008/2009), no. 1, 53–55.

Abstract

In this note, we give a short proof of the fact that the coefficients of the polynomial

$$A_n(x) = (1-x)(1-x^2)(1-x^3)\cdots(1-x^{F_n})(1-x^{F_{n+1}})$$

are all equal to -1, 0 or 1, where F_n is the *n*th Fibonacci number. This improves the previous result that the coefficients of $\prod_{n\geq 2} (1-x^{F_n})$ are all equal to -1, 0 or 1.