Kiyota Ozeki
On Melham's Sum,
Fibonacci Quart. 46/47 (2008/2009), no. 2, 107-110.

## Abstract

The sum $L_{1} \cdots L_{2 m+1} \sum_{k=1}^{n} F_{2 k}^{2 m+1}$ was first considered by Melham. He noticed that for small $m$ it could be expressed as a polynomial in $F_{2 n+1}$. In this paper we give an explicit expansion for Melham's sum as a polynomial in $F_{2 n+1}$.

