

Arithmetic properties of Fibonacci numbers

Florian Luca

The sequence of Fibonacci numbers $\{F_n\}_{n \geq 0}$ is given by $F_0 = 0$, $F_1 = 1$ and $F_{n+2} = F_{n+1} + F_n$ for all $n \geq 0$. In my talk, I will present various of the arithmetic properties of the Fibonacci numbers. In particular, I will present various results, some recent, some not so recent, regarding perfect powers in the sequence of Fibonacci numbers, the prime factors of Fibonacci numbers as well as arithmetic functions with Fibonacci numbers.