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Linear forms in k -Fibonacci sequences

For an integer $k \geq 2$, we consider the k -Fibonacci sequence $(F_n^{(k)})_n$ which starts with $0, \dots, 0, 1$ (k terms) and each term afterwards is the sum of the k preceding terms. In this talk, we report about some arithmetic properties of $(F_n^{(k)})_n$ and study some Diophantine equations involving k -Fibonacci numbers. This is a joint work with Carlos Gómez and Florian Luca.