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Geremias Polanco* (gpolanco@smith.edu). *Numbers, Patterns, Games and Greed: Number Theoretic Property of a Discrete Dynamical System connected with Beatty Sequences.*

In this presentation we will talk about a greedy algorithm that produces complementary Sequences that partition the positive integers and are connected to combinatorial games. We will connect this with a sequence generated by a Discrete Dynamical System that has interesting number theoretic properties and intriguing patterns. (Received September 21, 2021)