

VCU Discrete Mathematics Seminar

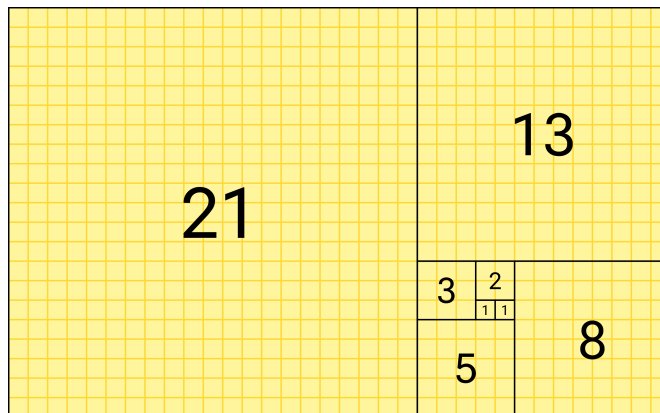
Primes in the Ring of Integer Fibonacci Sequences

**Prof Craig Larson
(VCU!)**

Wednesday, April 1
1:00-1:50 EST

In Person in 4145 Harris, with Zoom option:

<https://vcu.zoom.us/j/81475528886>
password=graphs2357



The Fibonacci sequence is $0, 1, 1, 2, 3, 5, 8, 13, \dots$ where the next term is the sum of the preceding two terms. We can extend this sequence backwards in a natural way. We can generalize by allowing any pair of integers to be the starting numbers (or even any pair of real numbers). We will define a product of integer fibonacci sequences, make them a ring with the natural addition and define the notion of a *prime*. We will show that there are infinitely many prime integer Fibonacci sequences. Many open questions remain.

This is joint work with Robert Jacobs.

For the DM seminar schedule, see:

<https://go.vcu.edu/discrete>