## TEMPLE MATH GLUB

Investigating Lucas Sequences Under a Modulus – Tommy Pham

WHEN

**November 21<sup>th</sup> 2024 5-6 PM** 

WHERE

**Wachman Hall 617** 

In 2018, Alex Dishong and Marc S. Renault obtained an algorithm that computes all moduli that produce a given period for the Fibonacci sequence, GO = O and G1 = 1. In this paper, we aim to generalize their result by replacing the Fibonacci sequence with generalized Fibonacci sequences, GO = A and GI = A. We conclude the paper by providing proofs of the main details of the algorithm and a conjecture.

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