

# Mahidol University International College

## MUIC MATHEMATICS SEMINAR

**Speaker:** Aram Tangboonduangjit (MUIC)

**Title:** *Fibonacci-Producing Rational Polynomials*

### **Abstract**

We study a family of interpolating rational polynomials that produce Fibonacci numbers on certain integer values. By construction, the degree  $m$  polynomial gives Fibonacci numbers for  $m + 1$  arguments; we show that several additional outputs are also closely related to Fibonacci numbers. Also, we use an alternative version of the polynomials to establish several identities.