

# Lethbridge Number Theory and Combinatorics Seminar

Monday — February 24, 2020

Room: W561

Time: 12:00 to 12:50 p.m.

# Peng-Jie Wong

## University of Lethbridge

# Cyclicity of CM Elliptic Curves Modulo $p$

Let  $E$  be a CM elliptic curve defined over  $\mathbb{Q}$ . In light of the Lang-Trotter conjecture, there is a question asking for an asymptotic formula for the number of primes  $p \leq x$  for which the reduction modulo  $p$  of  $E$  is cyclic. This has been studied by Akbary, Cojocaru, Gupta, M.R. Murty, V.K. Murty, and Serre. In this talk, we will discuss their work and some variants of the question.

**EVERYONE IS WELCOME!**

Visit the seminar web page at  
<http://www.cs.uleth.ca/~nathanng/ntcoseminar/>



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