

Number Theory & Combinatorics Seminar

Mathematics & Computer Science

Weekly Seminar

ADAM FELIX, University of Lethbridge

ARTIN'S CONJECTURE ON PRIMITIVE ROOTS

Abstract:

A primitive root modulo a prime p is an integer which generates the group of non-zero residues modulo p . For primes p , we can always find a primitive root modulo p . In 1927, Artin conjectured that a density for the set of primes for which a fixed integer is a primitive root modulo p exists. Hooley showed that this is true upon the generalized Riemann hypothesis. I will give two conditional proofs of this result: Hooley's original proof and a proof which generalizes to other problems related to Artin's conjecture.

Monday—11 February 2013

Room: E575

Time: 12:00—12:50 pm

For future seminars in this series, visit the seminar page at:

<http://www.cs.uleth.ca/~nathanng/ntcoseminar/>

EVERYONE IS WELCOME!