## Lethbridge Number Theory and Combinatorics Seminar

Monday — October 29, 2018 Room: C630 Time: 12:00 to 12:50 p.m.

## **Dave Morris** University of Lethbridge

## Cayley graphs of order kp are hamiltonian for k < 48

For every generating set S of any finite group G, there is a corresponding Cayley graph Cay(G; S). It was conjectured in the early 1970's that Cay(G; S) always has a hamiltonian cycle, but there has been very little progress on this problem. Joint work with Kirsten Wilk has established the conjecture in the special case where the order of G is kp, with k < 48 and p prime. This was not previously known for values of k in the set  $\{24, 32, 36, 40, 42, 45\}$ .

## **EVERYONE IS WELCOME!**

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

