

# Lethbridge Number Theory and Combinatorics Seminar

Monday — April 3, 2017

Room: B660

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

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## Elliptic Sequences

*Abstract:* An *elliptic sequence* is a solution over an arbitrary integral domain of the recursion

$$W_{m+n} W_{m-n} = W_{m+1} W_{m-1} W_n^2 - W_{n+1} W_{n-1} W_m^2,$$

where  $m, n \in \mathbb{Z}$ . The theory of integral elliptic sequences was developed by Morgan Ward in 1948. We describe the fundamental classification theorem of Ward for these sequences. Our emphasis will be on the so called “singular” sequences and their relation to the classical Lucas sequences.

**EVERYONE IS WELCOME!**

Visit the seminar web page at

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

