

# Lethbridge Number Theory and Combinatorics Seminar

*note  
special  
day!*

**Friday** — November 21, 2014

Room: B660

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

## Soroosh Yazdani

Google (Waterloo, Ontario)

## Belyi maps and Diophantine Equations

*Abstract:* In 1979 G. Belyi proved that given any smooth curve  $C$  over any number field, there is map  $\beta : C \rightarrow \mathbb{P}^1$  such that  $\beta$  is unramified outside of three points. This is particularly striking since Belyi's theorem is not true over complex numbers, and hence it is an arithmetic result as much as it is a geometric result. In this talk I will give a brief explanation for the proof of this theorem and explain how this theorem can be used to relate arithmetic geometry problems to the ABC conjecture.

**EVERYONE IS WELCOME!**

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



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