

Lethbridge Number Theory and Combinatorics Seminar

Friday — November 15, 2013

Room: B660

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

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The arithmetic of post-critically finite morphisms

Abstract: Let f be an endomorphism of N -dimensional projective space. In complex dynamics, it has been known for a century (at least when $N = 1$) that the orbits of the critical points determines much of the dynamics of f . Morphisms for which all of these critical orbits are finite (so-called PCF maps) turn out to be an important class to understand. Thurston proved, when $N = 1$, that there are no algebraic families of PCF maps, except for a small number of easy-to-understand examples. I will discuss some recent research into the arithmetic properties of these maps, as well as a partial extension of Thurston's result to arbitrary dimension.

EVERYONE IS WELCOME!

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

