McMaster University   University of Toronto   University of Waterloo

THE FIELDS INSTITUTE FOR RESEARCH IN MATHEMATICAL SCIENCES

COLLOQUIUM in DYNAMICAL SYSTEMS

SPEAKER:

> **VIVIEN KIRK**
> Department of Mathematics & Statistics
> University of Auckland

On the Topic:

"Normal Form Analysis of Stationary/Oscillatory Bifurcations"

Normal form analysis gives local information about the dynamics associated with a bifurcation; the analysis is strictly valid only in a small neighbourhood (in both phase and parameter space) of the bifurcation of interest. This talk will review the standard normal form analysis of stationary/oscillatory bifurcations, and will then discuss new results obtained as a result of trying to understand what the local normal form analysis tells us about the dynamics away from a neighbourhood of the bifurcation.

Wednesday, December 9, 1992 at 3:30pm, room 3018

at

The Fields Institute