



McMaster University



University of Toronto



University of Waterloo

## THE FIELDS INSTITUTE FOR RESEARCH IN MATHEMATICAL SCIENCES

### COLLOQUIUM IN DYNAMICAL SYSTEMS

#### SPEAKER:

**WILLIAM GILBERT**  
University of Waterloo  
and The Fields Institute

On the Topic:

#### "Complex Dynamics of Newton's Methods"

We analyze the dynamics of various generalizations of Newton's method for finding the complex roots of a function. For example, we show that the dynamics of the relaxed Newton's method for finding double roots of a cubic is conjugate to some well-known dynamics, and that this method should not be used.

**Wednesday, February 3, 1993**

**3:30 pm, room 3018**

**at**

**The Fields Institute**