

McMaster University





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

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