



McMaster University



University of Toronto



University of Waterloo

**THE FIELDS INSTITUTE FOR RESEARCH IN MATHEMATICAL SCIENCES**

**COLLOQUIUM IN DYNAMICAL SYSTEMS**

**SPEAKER:**

**PETER BATES**  
Brigham Young University

On the Topic:

**"Nucleation for the Cahn-Hilliard Equation in Higher  
Space Dimensions"**

Joint work in progress will be discussed which gives a dynamical systems approach to finding stationary spiked solutions to the Cahn-Hilliard equation in a general smooth domain. The spikes represent unstable "nuclei" perturbations which may either "dissolve" or "nucleate" into large islands of one phase in a domain filled with material of another phase.

**Wednesday, January 27, 1993**

**3:30 pm, room 3018**

**at**

**The Fields Institute**

185 Columbia Street West, Waterloo, Ontario N2L 5Z5 Telephone: (519) 725-0096 Fax: (519) 725-0704

Supported by the Ministry of Colleges and Universities of Ontario and the Natural Sciences and Engineering Research Council of Canada