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