



McMaster University



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THE FIELDS INSTITUTE FOR RESEARCH IN MATHEMATICAL SCIENCES

COLLOQUIUM IN DYNAMICAL SYSTEMS

SPEAKER:

GÉRARD IOOSS
Institut Non-Linear de Nice
University of Nice, France

On the Topic:

"Water waves for small surface tension: a normal form approach"

We show how the water-wave problem reduces to a reversible 4 dimensional ODE, whose linear part has a double zero and a pair of pure imaginary eigenvalues, for Bond numbers less than $1/3$ and Froude numbers near 1. We give the "reversible" normal form which is integrable and solve it. We discuss what solutions persist for the full problem.

Wednesday, November 11, 1992 at 3:30pm, room 3018

at

The Fields Institute