



McMaster University



University of Toronto



University of Waterloo

# THE FIELDS INSTITUTE FOR RESEARCH IN MATHEMATICAL SCIENCES

## SEMINAR SERIES ON CONTROL THEORY

### SPEAKER:

**ROBERT HERMANN**  
ECS Department, Boston University

### On the Topic:

### "Gradient Flows and Lie Theory"

Some Lie algebras of vector fields generate gradient flows. This talk will discuss the Lie-theoretic foundations of this fact and give some applications - for example, Poisson integral formulas for harmonic functions and asymptotic behaviour of solutions of matrix Riccati equations.

**Thursday, March 26, 1992 at 1:30pm, room 3013**

**at**

**The Fields Institute**

(Uni-Park 3, 185 Columbia Street West, Waterloo)