McMaster University   University of Toronto   University of Waterloo

THE FIELDS INSTITUTE

FOR RESEARCH IN MATHEMATICAL SCIENCES

SEMINAR SERIES ON CONTROL THEORY

SPEAKER:

M. DAHLEH
University of California,
Santa Barbara

On the Topic:

**"Robust Stability and Performance in the Presence of
Mixed Perturbations"**

will be held

Monday, March 23rd, 1992 at 1:30 p.m.

at

Fields Institute
3rd Floor, Uni-Park 3
185 Columbia Street West
Waterloo

In this talk we will present a unified approach for the analysis of robust stability and performance of systems with norm-bounded and parametric perturbations. Recent advances in this area resulted in analysis tools for robust stability and performance of systems in the presence of time-variant, time-varying, or nonlinear norm bounded perturbations. These results will be presented within this general framework. For the case where real parametric uncertainty is present the issues of computational reduction, and the utilization of special parametric structures will be discussed.