THE FIELDS INSTITUTE

FOR RESEARCH IN MATHEMATICAL SCIENCES

SEMINAR SERIES ON CONTROL THEORY

SPEAKER:

GEORGE WILKENS
Visiting Scientist, Fields Institute
(University of Hawaii)

On the Topic

"Centro-affine plane curves and feedback control"

will be held

Wednesday, February 5th, 1992 at 1:30 p.m.

at

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

I intend to develop the geometry of plane curves under the action of the general linear group, GL(2,R). The key invariants will be centro-affine "arc-length" and "curvature". I will then show how centro-affine geometry occurs in the problem of feedback equivalence and explicitly show how the "arc-length" and "curvature" invariants appear in the lowest dimensional case of feedback equivalence.