



McMaster University



University of Toronto



University of Waterloo

THE FIELDS INSTITUTE FOR RESEARCH IN MATHEMATICAL SCIENCES

DIRECTOR'S SEMINAR

SPEAKER:

PETER GREINER
University of Toronto

On the Topic:

"Complex Hamiltonian Mechanics and Hypoelliptic Differential Equations"

We propose a new formula which gives explicit parametrices for a class of second order subelliptic operators. Our parametrix is expressed as an integral over the characteristic variety of an expression in which the denominator is a Hamiltonian action function and the principal term of the numerator solves an associated transport equation. This lecture is devoted to the detailed study of this parametrix for operators of the type usually associated to strictly pseudo-convex boundaries.

Monday, March 29, 1993

4:00 pm, room 3018

at

The Fields Institute

Refreshments at 3:00 pm, Common Room